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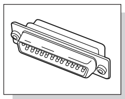	Connectors, Cable Assemblies, IC Sockets. 28-522	INCLUDES SMT	**A**
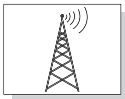	Active RF Product and Antennas 523-580	INCLUDES SMT	**B**
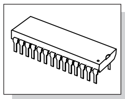	Semiconductors, ICs, Transistors, Diodes, Rectifiers 581-1334	INCLUDES SMT	**C**
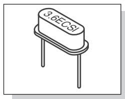	Crystals, Oscillators. 1335-1397	INCLUDES SMT	**D**
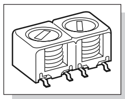	Inductors, Coils, Filters 1398-1523	INCLUDES SMT	**E**
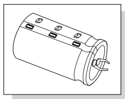	Capacitors 1524-1795	INCLUDES SMT	**F**
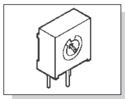	Resistors, Potentiometers 1796-1905	INCLUDES SMT	**G**
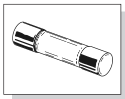	Circuit Protection Components and PTC Thermistors . . . 1906-1985	INCLUDES SMT	**H**
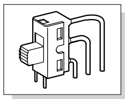	Switches, Relays, Electro-mechanical 1986-2162	INCLUDES SMT	**I**
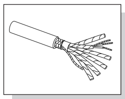	Wire, Cable & Access., Buzzers, Mics, Speakers 2163-2195		**J**
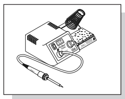	Prototyping, Tools, Solder, Test Equipment 2196-2282	INCLUDES SMT	**K**
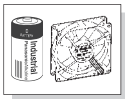	Batteries, Fans. 2283-2312	INCLUDES SMT	**L**
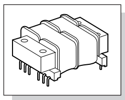	Transformers, Power Supplies. . . . 2313-2383	INCLUDES SMT	**M**
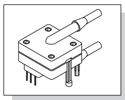	Sensors, Industrial Controls and NTC Thermistors . . . 2384-2465	INCLUDES SMT	**N**
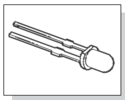	Optoelectronics, LEDs, LCDs, Lasers, Displays . . . 2466-2560	INCLUDES SMT	**O**

Digi-Key® Services

Product Information

PROGRAMMING:

Digi-Key has the capability to program a wide variety of devices. For more information regarding programming, contact the Custom Department at 1-800-344-4539 (ext. 5725) or email: custom.orders@digikey.com.

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We have the capabilities to offer ribbon cable assemblies in many different *custom* configurations and lengths as well as some jumper wires. We can also provide a limited number of discrete wire assemblies, depending on tooling and quantity.

Additional Information

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Department Information

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Conversion Table

inch *to* mm	inch x 25.4	mm *to* inch	mm ÷ 25.4	°C *to* °F	(C x 1.8) + 32
inch *to* cm	inch x 2.54	cm *to* inch	cm x .3937	°F *to* °C	(F - 32) ÷ 1.8
feet *to* meters	foot x .3048	meters *to* feet	meter x 3.28084	ounce *to* gram	oz. x 28.349

Voltage = Current x Resistance

Watts = Volts x Amps

VA = Volts x Amps

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MAIL/FAX ORDER FORM

#T083

Digi-Key® CORPORATION

701 Brooks Ave. South
PO Box 677
Thief River Falls, MN 56701-0677

	No. of Pages:
To:	**From:**
Co.: *Digi-Key Corporation*	**Co.:**
Dept.: *Order Department*	**Phone No:**
Fax No: *218-681-3380*	**Fax No:**

(Please Check One)
Payment Method: ☐ Credit Card ☐ COD ☐ Check or MO ☐ Open Acct.

Card Number: ☐☐☐☐-☐☐☐☐-☐☐☐☐-☐☐☐☐
☐MC ☐VISA
☐AmEx ☐Discover

Expiration Date ☐☐ ☐☐ Mo. Yr.

Security Code *(See back of card.)* ☐☐☐☐

Credit Card Holder's Name (Please Print Clearly) ____________________

☐ Personal Order ☐ Company Order (Please Check One)

Ship to:

Customer Number ____________________

Customer Name ____________________

Company Name ____________________ **Phone (   )** ____________________

Shipping Address ____________________ **Apartment/Suite** ____________________

City ____________________ **State** __________ **Zip** __________

Bill to:

P.O. No. ____________________ **Account No.** ____________________

Company Name ____________________ **Phone (   )** ____________________

Billing Address ____________________ **Apartment/Suite** ____________________

City ____________________ **State** __________ **Zip** __________

Quantity		Digi-Key Part No.	Description (brief)	Price/Unit	Total Price
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Ship Via: ____________________

Are substitutions acceptable?
☐ Yes ☐ No

Are backorders acceptable?
☐ Yes ☐ No

Backordered for a period of ______ days.

Backorder shipping method: __________

Confirmation required?
☐ Yes ☐ No

Confirm VIA: ☐ Phone ☐ FAX

SHIPPING INFORMATION

We pay all shipping (our choice of method) and insurance to addresses in the USA and Canada when check or money order accompanies order. See "Ordering Information/Shipping Charges" for details on heavy/oversize items.

1. Total of all items .... $ __________

2. Sub Total.................. $ __________

3. Please remit any applicable taxes............ $ __________

4. Total enclosed .... $ __________
(Total of all lines) (US Dollars)

Digi-Key Terms and Conditions

General Conditions of Order:

Do Not Use Products Sold by Digi-Key as Critical Components in Life Support Devices or Systems:

Products sold by Digi-Key are not authorized for use as critical components in life support devices or systems. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness. Any attempt to purchase any Digi-Key product for that purpose is null and void and Digi-Key accepts no liability whatsoever in contract, tort or otherwise whether or not resulting from our or our employees' negligence or failure to detect an improper purchase.

All orders, regardless of how they are placed, submitted through a Digi-Key Web site or through its printed catalog, are specifically subject to all the terms and conditions contained herein. No change, alteration, deletion or modification of any of these terms and conditions is permitted. No person is authorized to accept, confirm or vary these terms and conditions including all representations and warranties unless they have been posted on Digi-Key's Web site or in this catalog. All terms are specifically and exclusively subject to interpretation under the *US Uniform Commercial Code* and all claims or disputes shall be interpreted according to Minnesota law and subject to jurisdiction in Minnesota state or federal courts at the exclusion of any other choice of law or choice of jurisdiction, including the *UN Convention on the International Sale of Goods (CISG)*.

Orders placed on forms deviating from these terms and conditions will be accepted on the basis that Digi-Key Terms and Conditions will prevail.

Technical Assistance and Design Support Services — Disclaimer of Warranties; Release of Claims:

Digi-Key offers its Technical Assistance and Design Support Services as a convenience to Digi-Key customers. Digi-Key Technical Assistance and Design Support Services personnel strive to provide useful information regarding Digi-Key products. DIGI-KEY DOES NOT GUARANTEE THAT ANY INFORMATION OR RECOMMENDATION PROVIDED IS ACCURATE, COMPLETE, OR CORRECT, AND DIGI-KEY SHALL HAVE NO RESPONSIBILITY OR LIABILITY WHATSOEVER IN CONNECTION WITH ANY INFORMATION OR RECOMMENDATION PROVIDED, OR THE CUSTOMER'S RELIANCE ON SUCH INFORMATION OR RECOMMENDATION. THE CUSTOMER IS SOLELY RESPONSIBLE FOR ANALYZING AND DETERMINING THE APPROPRIATENESS OF ANY INFORMATION OR RECOMMENDATION PROVIDED BY DIGI-KEY TECHNICAL ASSISTANCE AND DESIGN SUPPORT SERVICES PERSONNEL, AND ANY RELIANCE ON SUCH INFORMATION OR RECOMMENDATION IS AT THE CUSTOMER'S SOLE RISK AND DISCRETION. ACCORDINGLY, THE CUSTOMER SHALL RELEASE AND HOLD DIGI-KEY HARMLESS FROM AND AGAINST ANY AND ALL LOSS, LIABILITY, AND DAMAGE INCURRED BY THE CUSTOMER OR ANY THIRD PARTY AS A RESULT OF ANY INFORMATION OR RECOMMENDATION PROVIDED TO THE CUSTOMER OR THE CUSTOMER'S RELIANCE ON SUCH INFORMATION OR RECOMMENDATION.

General Disclaimer of Warranties; Limitation of Liability:

DIGI-KEY MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED WITH RESPECT TO ANY PRODUCT, AND SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, INCLUDING WARRANTIES FOR MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS FOR ANY PARTICULAR PURPOSE. DIGI-KEY'S SOLE OBLIGATION AND LIABILITY FOR PRODUCT DEFECTS SHALL BE, AT DIGI-KEY'S OPTION, TO REPLACE SUCH DEFECTIVE PRODUCT OR REFUND TO CUSTOMER THE AMOUNT PAID BY CUSTOMER THEREFORE. IN NO EVENT SHALL DIGI-KEY'S LIABILITY EXCEED THE BUYER'S PURCHASE PRICE.

The foregoing remedy shall be subject to buyer's written notification of defect and return of the defective product within ninety (90) days of purchase. The foregoing remedy does not apply to products that have been subjected to misuse (including without limitation static discharge), neglect, accident or modification, or to products that have been soldered or altered during assembly, or are otherwise not capable of being tested.

IN NO EVENT SHALL DIGI-KEY BE LIABLE TO THE BUYER OR TO ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS, LOST SAVINGS, OR LOSS OF BUSINESS OPPORTUNITY) ARISING OUT OF OR RELATING TO ANY PRODUCT OR SERVICE PROVIDED OR TO BE PROVIDED BY DIGI-KEY, OR THE USE OR INABILITY TO USE THE SAME, EVEN IF DIGI-KEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Infringement Disclaimer:

Notwithstanding section 2-312 of any applicable version of the Uniform Commercial Code or any other similar law, or any purchase order term, other contractual provision or the like from the buyer, Digi-Key: (i) expressly disclaims any and all warranties against third party claims for infringement or the like, and (ii) shall have no obligation of any kind to the buyer for claims brought by third parties against the buyer for infringement or the like arising out of or in any way related to product purchased by the buyer from Digi-Key.

How To Order

❐ By Telephone: 800-344-4539 (US & Canada) or 218-681-6674

Our friendly sales representatives are ready to serve you 24 hours a day, 7 days a week, 365 days a year. For most efficient service, please have ready a list of quantities and part numbers and, if paying by credit card, your MasterCard, VISA, American Express or Discover card.

Note: Calls may be recorded or monitored for quality and training purposes.

❐ By Fax: 218-681-3380

Digi-Key Fax lines can be accessed 24-hours a day, 7-days a week, 365-days a year. Depending on the shipping method; fax orders will be processed and shipped according to the "Orders entered by times" listed below under ***Shipment***. Orders received after these cutoff times will be processed and shipped the next business day. Please include your daytime telephone number and/or email address in case we have any questions about your order.

❐ By Internet: www.digikey.com

Order on-line 24-hours a day, 7 days a week, 365 days a year. Digi-Key's Top Rated Web site receives hundreds-of-thousands of orders each year. Internet orders entered after normal business hours are promptly processed and shipped the next business day.

❐ By Mail: Simply Mail Your Order To:

Digi-Key Corporation
701 Brooks Avenue South
PO Box 677
Thief River Falls MN 56701-0677

International customers please see "International Orders" for additional information.

Ordering Information

Prices/Quantities:

Digi-Key Corporation purchases all product directly from its original manufacturer.

Digi-Key makes every effort to present current and accurate pricing in its catalog and on its Web site. However, prices are subject to change without notice and quantities may be limited. All orders are subject to current pricing at time of acceptance by Digi-Key. Digi-Key country specific Web sites offer alternative currencies. No trade in other currencies will be accepted.

Shipment:

Digi-Key's warehouse is open and staffed Monday through Friday, 7:30am-9:00pm Central Time (subject to holidays). Orders are shipped only on these business days. Orders and correspondence received on Saturday and Sunday will be addressed/shipped on the following Monday and included in that day's business.

Digi-Key's cut-off times for Same-Day Shipment Monday-Friday are as follows:

- Orders entered by 6:00pm CT–All USPS Options (Express Mail delayed 1 day).
- Orders entered by 7:00pm CT–FedEx ground.
- Orders entered by 8:00pm CT–All UPS air and surface options; All FedEx air options.

Shipping Charges:

Shipping or freight charges and insurance will be paid by the customer*. All sales are made FOB point (as defined by the INCOTERMS 2000) in Thief River Falls, MN, USA. Shipping or freight charges from Digi-Key's warehouse in Thief River Falls, MN are prepaid and added to the invoice, billed collect or billed to a 3rd party.

* When a check or money order accompanies your order, Digi-Key pays all shipping and insurance (our choice for method of shipping) to all addresses in the USA and Canada, unless such charges exceed 10% on orders of $200 or less, or 5% on orders greater than $200. Digi-Key will notify you prior to shipment if these conditions exist.

Sales Tax:

Sales tax is charged on shipments in most states that have a sales tax, unless we have your resale certificate. Sales tax will be **estimated** at order submit time based on the subtotal of your order. The exact calculation will be applied to your invoice upon shipment, according to your State's tax laws regarding handling and shipping fees. Fax your certificate and your customer number to 218-681-7931, Attention: Sales Tax.

Payment:

Digi-Key offers a number of convenient payment methods:

For United States customers we offer check, money order, MasterCard, VISA, American Express, Discover, and C.O.D. as well as open account credit to qualified institutions and businesses. Payment must be made in the currency in which the order was placed.

For Canadian customers we offer all of the above payment options except C.O.D.

For International customers see "International Orders" below.

To obtain a credit application for open account credit, contact any sales representative by calling 800-344-4539 (US & Canada) or 218-681-6674 or faxing your request to 218-681-3380. Or, you may go to www.digikey.com and click on "Contact Us", which will bring you to the "Digi-Key Communications" page. Then click on "Net 30 Credit Application" in the "Accounting" box. Please allow sufficient time for the credit approval process. To avoid delay on your initial order you may elect an alternative payment method.

Dishonored Check Policy:

If a check you give us for payment is dishonored for any reason by the bank or other institution on which it is drawn, you agree to pay us $20.00 as a service charge (if the check cannot be redeposited) pursuant to Minnesota Statutes § 332.50. In addition, you agree to pay any other reasonable charges imposed by any check verification company or collection agency that we may use for collection.

Out-Of-Stock:

On orders paid by check, money order or credit card, items not available for immediate shipment will be shipped as they become available. Items not available at the end of 30 days will be cancelled and refunded/credited in cases of prepayment. The number of backorder days may be extended beyond 30 days at customer's request. If a refund check is issued, the cancelled item can be re-entered without a handling charge if the check and cancellation notice are returned to us.

On orders billed to customers with open account credit, items not available for immediate shipment will be shipped and billed as they become available. Items not available at the end of 90 days will be cancelled. The number of backorder days may be extended beyond 90 days at customers request.

International Orders:

In addition to the United States and its territories, Digi-Key accepts International orders. All orders of International origin are exported from the US in accordance with the Export Administration Regulations. Diversion contrary to US Law is prohibited. All duties and taxes will be the responsibility of the customer.

Payment options for International customers: MasterCard, VISA, American Express, Discover, cashier's check in US funds, as well as open account credit to qualified institutions and businesses. We cannot accept personal checks or certified personal checks. Money orders can result in significant delays. Use of Letters of Credit must be approved in advance by Digi-Key's Accounting Department.

To obtain a credit application for open account credit, contact any sales representative by calling 218-681-7979 or faxing your request to 218-681-3380. Or, you may go to www.digikey.com and click on "Contact Us", which will bring you to the "Digi-Key Communications" page. Then click on "Net 30 Credit Application" in the "Accounting" box. Please allow sufficient time for the credit approval process. To avoid delay on your initial order you may elect an alternative payment method.

Customer Service:

Voice: 800-858-3616 in (US & Canada) or 218-681-6674

Fax: 218-681-3380

Internet: www.digikey.com (click "Contact Us")

Mail: Digi-Key Corporation
Attn: Customer Service
PO Box 677
Thief River Falls MN 56701-0677

A friendly, competent staff of customer service representatives is available 24 hours a day, 7 days a week, 365 days a year to assist you. Please have your sales order or invoice number available when you call.

Freight Damage:

If you receive merchandise that has been damaged in transit, it is important to keep the shipping carton, packing material and parts intact. Please contact a Digi-Key Customer Service representative immediately to initiate a claim. See "Customer Service" above for contact information.

Return Policy:

Digi-Key accepts merchandise returns subject to the terms outlined below and will replace the product or refund your money at your option.
To facilitate processing of returned merchandise:

- Please contact a Customer Service Representative to obtain an RMA (Returned Merchandise Authorization) number prior to returning product. See "Customer Service" above for contact information.
- All returns should be made within 30 days of date of invoice and be accompanied by the original invoice number and a brief explanation of the reason for the return.
- Return freight charge must be prepaid. Sorry, C.O.D. returns cannot be accepted.
- Returned merchandise must be in original packaging and resalable condition.
- Parts returned due to customer error may be subject to a restocking charge. "Not-in Catalog Items" and parts specified as "Non-Cancelable/Non-Returnable" at time of quote or sale are not returnable.
- Defective merchandise may be returned within 90 days of the original invoice date and need not be in original packaging.

Duplicate Mailings:

If you receive more than one catalog with the same name and address, please return the labels to Digi-Key and pass the catalog along to a friend. Also, if you do not require multiple copies to the same company address, contact a sales representative to verify your mailing information. A forms based communications method for catalog issues (Receive, Remove, Change of Address) can be accessed at www.digikey.com by clicking "Contact Us", which brings you to the "Digi-Key Communications" page. Then click "Catalog Mailing List" and scroll to "Service Out Options" to note your preferences. Alternatively, you may mail, telephone or fax Digi-Key your request.

Recycling And The Environment:

Digi-Key is committed to the environment and you, our valued customer. We use Geämi, a 100% recyclable packaging product. Both the outer and inner tissue can be put in your newspaper bin for recycling. This catalog was produced with paper containing 33% post consumer fiber and may be recycled through a paper board recycling program.

Privacy Policy:

Your privacy as a customer is very important to us. We want you to know how your customer information is used.

Once you make a purchase, request a catalog or other information from Digi-Key, your name, shipping/mailing address, telephone number, email address and fax number are included in our customer file.

This information is used to ensure a quick, efficient flow of products and services to you. This information may also be used for other purposes as outlined below.

Postal Addresses: Digi-Key may use your mailing address to send the Digi-Key catalog to keep you updated on our most current products and services.
Occasionally, Digi-Key may make the names and addresses of our customer list available to carefully screened companies that offer products and/or services that may be of interest to you.

Email Addresses: Email addresses may be used to communicate information of interest to you about Digi-Key. This includes Order Shipment/Tracking Information, Obsolete Part Bulletins, Service Change Information or other Digi-Key promotional emails.

Emails may be sent by Digi-Key or an authorized agent working for Digi-Key. All authorized agents operate with a confidentiality agreement. Information sent in this manner will always include "opt out" options.

Email addresses are never rented, sold or traded to third parties.

Opt Out: You may elect to opt out of any of the above uses of your customer information by completing the "Opt Out" form in our privacy statement on our Web site or by contacting us by telephone, fax or mail.

Other Uses Of Customer Information: Digi-Key is under contract to provide point of sale information to many of its product suppliers for market research and payment of commission to the supplier's agents.

If you have an open account with Digi-Key, credit and payment history will periodically be shared with credit reporting agencies.

Customer information is also used for marketing and market research for Digi-Key Corporation. Digi-Key or an authorized agent working for Digi-Key may complete these activities. All customer information is kept confidential.

Digi-Key will share customer information with government agencies if required by law.

Note: We reserve the right to make changes to our privacy policy at any time without prior notification.

ISO 9001:2000 Certified:

Digi-Key's operations from order entry through shipping have been fully ISO certified since March 17,1994 and are recertified on an annual basis. A copy of Digi-Key Corporation's ISO Certification is available at www.digikey.com or upon verbal or written request.

Military Qualified Parts Disclaimer:

Digi-Key does not stock or sell any product that meets the performance or documentation requirements as outlined by any Military Qualified Parts List ("QPL"). Digi-Key does stock and sell product that has been manufactured to Mil Spec, BUT this in no way indicates that those parts are acceptable or appropriate for use in any Military application. Mil Spec is used as an industry-common reference and is NOT an indication of end use qualification.

Tyco Electronics AMP
Authorized Distributor

D-Subminiature Connectors

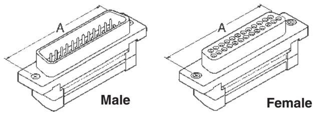

Material and Finish: • Plastic Shell: Housing, Cover and Cable Stabilizer – 94V-0 rated thermoplastic, black • Metal Shell: Front Shell – Steel, tin plated Housing, Cover & Cable Stabilizer – 94V-0 rated thermoplastic, black • Contacts: Phosphor bronze, duplex plated 30µ” gold on mating end, tin-lead on termination end, with entire contact nickel underplated • Threaded Inserts: Brass, unplated • Mounting Holes: Standard – .120” (3.05mm) Diameter

Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476

Certified by Canadian Standards Association., File No. LR 46568

No. of Contacts	Contact Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
Male						
Plastic Shell RoHS Compliant						
9	Gold	.984 (24.99)	AMS09B-ND	7.72	37.07	1658615-4
15		1.312 (33.32)	AMS15B-ND	8.99	43.17	1658615-3
25		1.852 (47.04)	AMS25B-ND	11.21	53.83	1658615-2
37		2.500 (63.50)	AMS37B-ND	15.34	73.64	1658615-1
Plastic Shell With Threaded Inserts						
15	Gold	1.312 (33.32)	AMV15K-ND	10.78	51.75	747053-3
Plastic Shell With Threaded Inserts RoHS Compliant						
9	Gold	.984 (24.99)	AMV09B-ND	9.94	47.74	1658611-4
15		1.312 (33.32)	AMV15B-ND	13.77	66.08	1658611-3
25		1.852 (47.04)	AMV25B-ND	19.74	94.74	1658611-2
Metal Shell RoHS Compliant						
9	Gold	.984 (24.99)	AMR09B-ND	8.36	40.12	1658613-4
15		1.312 (33.32)	AMR15B-ND	9.52	45.70	1658613-3
25		1.852 (47.04)	AMR25B-ND	11.85	56.88	1658613-2
37		2.500 (63.50)	AMR37B-ND	15.87	76.17	1658613-1
Metal Shell With Threaded Inserts RoHS Compliant						
9	Gold	.984 (24.99)	AML09B-ND	10.47	50.28	1658608-4
15		1.312 (33.32)	AML15B-ND	11.74	56.37	1658608-3
25		1.852 (47.04)	AML25B-ND	14.07	67.54	1658608-2
37		2.500 (63.50)	AML37B-ND	17.99	86.33	1658608-1
50		2.406 (61.11)	AMR50B-ND	27.83	133.56	1658607-1
Female						
Plastic Shell RoHS Compliant						
9	Gold	.984 (24.99)	AFS09B-ND	7.87	37.33	1658614-4
15		1.312 (33.32)	AFS15B-ND	8.99	42.65	1658614-3
25		1.852 (47.04)	AFS25B-ND	11.21	53.19	1658614-2
37		2.500 (63.50)	AFS37B-ND	15.34	72.76	1658614-1
Plastic Shell With Threaded Inserts RoHS Compliant						
9	Gold	.984 (24.99)	AFV09B-ND	10.13	48.07	1658609-4
15		1.312 (33.32)	AFV15B-ND	13.77	65.30	1658609-3
25		1.852 (47.04)	AFV25B-ND	13.44	63.73	1658609-2
37		2.500 (63.50)	AFV37B-ND	24.65	116.89	1658609-1
Metal Shell RoHS Compliant						
9	Gold	.984 (24.99)	AFR09B-ND	8.52	40.40	1658612-4
15		1.312 (33.32)	AFR15B-ND	9.52	45.16	1658612-3
25		1.852 (47.04)	AFR25B-ND	11.85	56.20	1658612-2
37		2.500 (63.50)	AFR37B-ND	15.87	75.27	1658612-1
50		2.406 (61.11)	AFR50B-ND	28.88	136.95	1658606-1
Metal Shell With Threaded Inserts						
37	Gold	2.500 (63.50)	AFL37K-ND	19.02	91.30	747052-1
Metal Shell With Threaded Inserts RoHS Compliant						
9	Gold	.984 (24.99)	AFL09B-ND	10.67	50.62	1658610-4
15		1.312 (33.32)	AFL15B-ND	11.74	55.70	1658610-3
25		1.852 (47.04)	AFL25B-ND	14.07	66.74	1658610-2
37		2.500 (63.50)	AFL37B-ND	17.99	85.30	1658610-1

No. of Contacts	Contact Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
Cable Strain Relief/Stabilizer — RoHS Compliant						
9	—	—	ADSR09-ND	.47	2.28	747275-4
15		—	ADSR15-ND	.53	2.57	747275-3
25		—	ADSR25-ND	.62	3.00	747275-2
37		—	ADSR37-ND	.71	3.43	747275-1
50		—	ADSR50-ND	1.47	7.14	746785-1

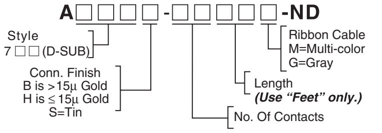

D-Subminiature Cable Assemblies

RoHS COMPLIANT

Single Ended — Male

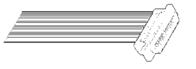

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Gold	6 (1.83)	MC	A7MXB-0906M-ND	8.94	72.79
		6 (1.83)	GR	A7MXB-0906G-ND	8.64	70.31
		10 (3.05)	MC	A7MXB-0910M-ND	9.22	75.05
		10 (3.05)	GR	A7MXB-0910G-ND	8.71	70.93
15	Gold	6 (1.83)	MC	A7MXB-1506M-ND	10.49	85.43
		6 (1.83)	GR	A7MXB-1506G-ND	10.09	82.18
		10 (3.05)	MC	A7MXB-1510M-ND	10.88	88.62
		10 (3.05)	GR	A7MXB-1510G-ND	10.22	83.21
25	Gold	6 (1.83)	MC	A7MXB-2506M-ND	13.28	108.14
		6 (1.83)	GR	A7MXB-2506G-ND	12.62	102.79
		10 (3.05)	MC	A7MXB-2510M-ND	13.93	113.42
		10 (3.05)	GR	A7MXB-2510G-ND	12.83	104.50
37	Gold	6 (1.83)	MC	A7MXB-3706M-ND	18.17	148.00
		6 (1.83)	GR	A7MXB-3706G-ND	17.16	139.70
		10 (3.05)	MC	A7MXB-3710M-ND	19.17	156.07
		10 (3.05)	GR	A7MXB-3710G-ND	17.47	142.24

Also available in the following configuration:

A7PX□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7VXB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7NXB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.
Note: Available with 9, 15 and 25 contacts.

Call for complete part number and pricing!

Single Ended — Female

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Gold	6 (1.83)	MC	A7FXB-0906M-ND	9.09	74.03
		6 (1.83)	GR	A7FXB-0906G-ND	8.79	71.56
		10 (3.05)	MC	A7FXB-0910M-ND	9.37	76.30
		10 (3.05)	GR	A7FXB-0910G-ND	8.86	72.18
15	Gold	6 (1.83)	MC	A7FXB-1506M-ND	10.49	85.43
		6 (1.83)	GR	A7FXB-1506G-ND	10.09	82.18
		10 (3.05)	MC	A7FXB-1510M-ND	10.88	88.62
		10 (3.05)	GR	A7FXB-1510G-ND	10.22	83.21
25	Gold	6 (1.83)	MC	A7FXB-2506M-ND	13.28	108.14
		6 (1.83)	GR	A7FXB-2506G-ND	12.62	102.79
		10 (3.05)	MC	A7FXB-2510M-ND	13.93	113.42
		10 (3.05)	GR	A7FXB-2510G-ND	12.83	104.50
37	Gold	6 (1.83)	MC	A7FXB-3706M-ND	18.17	148.00
		6 (1.83)	GR	A7FXB-3706G-ND	17.16	139.70
		10 (3.05)	MC	A7FXB-3710M-ND	19.17	156.07
		10 (3.05)	GR	A7FXB-3710G-ND	17.47	142.24

Also available in the following configuration:

A7SX□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7WXB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7OXB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.

Call for complete part number and pricing!

Male to Male

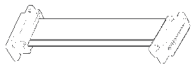

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Gold	6 (1.83)	MC	A7MMB-0906M-ND	17.46	142.17
		6 (1.83)	GR	A7MMB-0906G-ND	17.16	139.70
		10 (3.05)	MC	A7MMB-0910M-ND	17.74	144.44
		10 (3.05)	GR	A7MMB-0910G-ND	17.23	140.32
15	Gold	6 (1.83)	MC	A7MMB-1506M-ND	20.39	166.06
		6 (1.83)	GR	A7MMB-1506G-ND	20.00	162.82
		10 (3.05)	MC	A7MMB-1510M-ND	20.79	169.25
		10 (3.05)	GR	A7MMB-1510G-ND	20.12	163.85
25	Gold	6 (1.83)	MC	A7MMB-2506M-ND	25.59	208.35
		6 (1.83)	GR	A7MMB-2506G-ND	24.93	203.00
		10 (3.05)	MC	A7MMB-2510M-ND	26.24	213.63
		10 (3.05)	GR	A7MMB-2510G-ND	25.14	204.71
37	Gold	6 (1.83)	MC	A7MMB-3706M-ND	34.86	283.88
		6 (1.83)	GR	A7MMB-3706G-ND	33.84	275.59
		10 (3.05)	MC	A7MMB-3710M-ND	35.85	291.96
		10 (3.05)	GR	A7MMB-3710G-ND	34.16	278.13

Also available in the following configuration:

A7PP□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7VVB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7NNB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.

Call for complete part number and pricing!

Female to Female

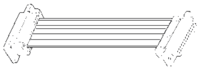

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Gold	6 (1.83)	MC	A7FFB-0906M-ND	17.77	144.66
		6 (1.83)	GR	A7FFB-0906G-ND	17.46	142.19
		10 (3.05)	MC	A7FFB-0910M-ND	18.04	146.93
		10 (3.05)	GR	A7FFB-0910G-ND	17.54	142.81
15	Gold	6 (1.83)	MC	A7FFB-1506M-ND	20.39	166.06
		6 (1.83)	GR	A7FFB-1506G-ND	20.00	162.82
		10 (3.05)	MC	A7FFB-1510M-ND	20.79	169.25
		10 (3.05)	GR	A7FFB-1510G-ND	20.12	163.85
25	Gold	6 (1.83)	MC	A7FFB-2506M-ND	25.59	208.35
		6 (1.83)	GR	A7FFB-2506G-ND	24.93	203.00
		10 (3.05)	MC	A7FFB-2510M-ND	26.24	213.63
		10 (3.05)	GR	A7FFB-2510G-ND	25.14	204.71
37	Gold	6 (1.83)	MC	A7FFB-3706M-ND	34.86	283.88
		6 (1.83)	GR	A7FFB-3706G-ND	33.84	275.59
		10 (3.05)	MC	A7FFB-3710M-ND	35.85	291.96
		10 (3.05)	GR	A7FFB-3710G-ND	34.16	278.13

Also available in the following configuration:

A7SS□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7WWB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7OOB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.

Call for complete part number and pricing!

Male to Female

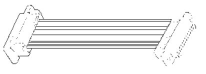

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Gold	6 (1.83)	MC	A7MFB-0906M-ND	17.61	143.42
		6 (1.83)	GR	A7MFB-0906G-ND	17.31	140.95
		10 (3.05)	MC	A7MFB-0910M-ND	17.89	145.68
		10 (3.05)	GR	A7MFB-0910G-ND	17.39	141.57
15	Gold	6 (1.83)	MC	A7MFB-1506M-ND	20.39	166.06
		6 (1.83)	GR	A7MFB-1506G-ND	20.00	162.82
		10 (3.05)	MC	A7MFB-1510M-ND	20.79	169.25
		10 (3.05)	GR	A7MFB-1510G-ND	20.12	163.85
25	Gold	6 (1.83)	MC	A7MFB-2506M-ND	25.59	208.35
		6 (1.83)	GR	A7MFB-2506G-ND	24.93	203.00
		10 (3.05)	MC	A7MFB-2510M-ND	26.24	213.63
		10 (3.05)	GR	A7MFB-2510G-ND	25.14	204.71
37	Gold	6 (1.83)	MC	A7MFB-3706M-ND	34.86	283.88
		6 (1.83)	GR	A7MFB-3706G-ND	33.84	275.59
		10 (3.05)	MC	A7MFB-3710M-ND	35.85	291.96
		10 (3.05)	GR	A7MFB-3710G-ND	34.16	278.13

Also available in the following configuration:

A7PS□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7VWB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7NOB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.

Call for complete part number and pricing!

Tyco Electronics AMP
Authorized Distributor

Ribbon Cable Dip Plugs

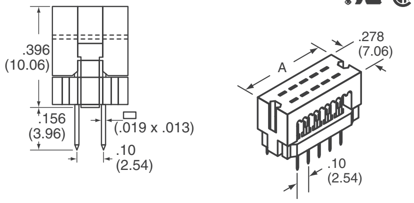

Material and Finish:
- Plastic Shell: Housing, Cover and Strain Relief — Black thermoplastic, UL 94V-0 rated
- Tin Finish: Contacts — Phosphor bronze
- Centerline — .100 x .100

No. of Cont.	Contact Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
10	Tin	.680 (17.27)	ADM10S-ND	1.71	8.10	2-746610-1
14		.880 (22.35)	ADM14S-ND	1.95	9.27	2-746610-2
16		.980 (24.89)	ADM16S-ND	2.27	10.75	1-746610-4
20		1.180 (29.97)	ADM20S-ND	2.60	12.31	1-746610-5
24		1.380 (35.05)	ADM24S-ND	2.89	13.72	2-746610-3
26	Tin	1.480 (37.59)	ADM26S-ND	3.13	14.83	1-746610-6
30		1.680 (42.67)	ADM30S-ND	3.52	16.69	1-746610-7
34		1.880 (47.75)	ADM34S-ND	3.75	17.80	1-746610-8
40		2.180 (55.37)	ADM40S-ND	4.22	20.02	1-746610-9
44		2.380 (60.45)	ADM44S-ND	5.45	25.83	2-746610-6
50	Tin	2.680 (68.07)	ADM50S-ND	4.93	23.36	2-746610-0
60		3.180 (80.77)	ADM60S-ND	4.49	21.29	2-746610-4
64		3.380 (85.85)	ADM64S-ND	6.41	30.42	2-746610-5

Dip Plug Cable Assemblies

Single Ended — Style 2

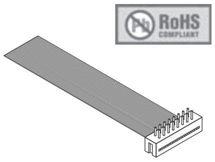

* MC = Multi-Color
GR = Gray

No. of Cont.	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Tin	6 (15.24)	MC	A2MXS-1006M-ND	2.08	16.98
		6 (15.24)	GR	A2MXS-1006G-ND	1.83	14.94
		18 (45.72)	MC	A2MXS-1018M-ND	2.84	23.11
		18 (45.72)	GR	A2MXS-1018G-ND	2.09	17.00
		36 (91.44)	MC	A2MXS-1036M-ND	3.97	32.30
		36 (91.44)	GR	A2MXS-1036G-ND	2.47	20.09
14	Tin	6 (15.24)	MC	A2MXS-1406M-ND	2.50	20.36
		6 (15.24)	GR	A2MXS-1406G-ND	2.13	17.36
		18 (45.72)	MC	A2MXS-1418M-ND	3.59	29.24
		18 (45.72)	GR	A2MXS-1418G-ND	2.49	20.24
		36 (91.44)	MC	A2MXS-1436M-ND	5.23	42.56
		36 (91.44)	GR	A2MXS-1436G-ND	3.02	24.57
16	Tin	6 (15.24)	MC	A2MXS-1606M-ND	2.89	23.54
		6 (15.24)	GR	A2MXS-1606G-ND	2.47	20.11
		18 (45.72)	MC	A2MXS-1618M-ND	4.14	33.68
		18 (45.72)	GR	A2MXS-1618G-ND	2.87	23.41
		36 (91.44)	MC	A2MXS-1636M-ND	6.01	48.90
		36 (91.44)	GR	A2MXS-1636G-ND	3.48	28.36
20	Tin	6 (15.24)	MC	A2MXS-2006M-ND	3.37	27.47
		6 (15.24)	GR	A2MXS-2006G-ND	2.85	23.20
		18 (45.72)	MC	A2MXS-2018M-ND	4.93	40.14
		18 (45.72)	GR	A2MXS-2018G-ND	3.36	27.32
		36 (91.44)	MC	A2MXS-2036M-ND	7.26	59.13
		36 (91.44)	GR	A2MXS-2036G-ND	4.11	33.50
24	Tin	6 (15.24)	MC	A2MXS-2406M-ND	3.82	31.09
		6 (15.24)	GR	A2MXS-2406G-ND	3.20	26.03
		18 (45.72)	MC	A2MXS-2418M-ND	5.67	46.17
		18 (45.72)	GR	A2MXS-2418G-ND	3.80	30.98
		36 (91.44)	MC	A2MXS-2436M-ND	8.45	68.79
		36 (91.44)	GR	A2MXS-2436G-ND	4.72	38.40
26	Tin	6 (15.24)	MC	A2MXS-2606M-ND	4.14	33.71
		6 (15.24)	GR	A2MXS-2606G-ND	3.44	28.04
		18 (45.72)	MC	A2MXS-2618M-ND	6.17	50.20
		18 (45.72)	GR	A2MXS-2618G-ND	4.08	33.19
		36 (91.44)	MC	A2MXS-2636M-ND	9.20	74.94
		36 (91.44)	GR	A2MXS-2636G-ND	5.03	40.92
		6 (15.24)	GR	A2MXS-3406G-ND	4.18	34.06
34	Tin	18 (45.72)	MC	A2MXS-3418M-ND	7.53	61.30
		18 (45.72)	GR	A2MXS-3418G-ND	5.04	41.07
		36 (91.44)	MC	A2MXS-3436M-ND	11.30	92.04
		36 (91.44)	GR	A2MXS-3436G-ND	6.33	51.58
40	Tin	6 (15.24)	MC	A2MXS-4006M-ND	5.78	47.06
		6 (15.24)	GR	A2MXS-4006G-ND	4.73	38.50
		18 (45.72)	MC	A2MXS-4018M-ND	8.90	72.44
		18 (45.72)	GR	A2MXS-4018G-ND	5.74	46.75
		36 (91.44)	MC	A2MXS-4036M-ND	13.57	110.49
		36 (91.44)	GR	A2MXS-4036G-ND	7.26	59.11
50	Tin	6 (15.24)	MC	A2MXS-5006M-ND	6.78	55.19
		6 (15.24)	GR	A2MXS-5006G-ND	5.56	45.26
		18 (45.72)	MC	A2MXS-5018M-ND	10.48	85.34
		18 (45.72)	GR	A2MXS-5018G-ND	6.82	55.57
		36 (91.44)	MC	A2MXS-5036M-ND	16.04	130.57
		36 (91.44)	GR	A2MXS-5036G-ND	8.72	71.03
60	Tin	6 (15.24)	MC	A2MXS-6006M-ND	7.69	62.64
		6 (15.24)	GR	A2MXS-6006G-ND	6.23	50.75
		18 (45.72)	MC	A2MXS-6018M-ND	12.13	98.80
		18 (45.72)	GR	A2MXS-6018G-ND	7.75	63.12
		36 (91.44)	MC	A2MXS-6036M-ND	18.79	153.04
		36 (91.44)	GR	A2MXS-6036G-ND	10.03	81.67
64	Tin	6 (15.24)	MC	A2MXS-6406M-ND	12.31	100.22
		6 (15.24)	GR	A2MXS-6406G-ND	10.85	88.33
		18 (45.72)	MC	A2MXS-6418M-ND	16.75	136.38
		18 (45.72)	GR	A2MXS-6418G-ND	12.37	100.70
		36 (91.44)	MC	A2MXS-6436M-ND	23.41	190.62
		36 (91.44)	GR	A2MXS-6436G-ND	14.64	119.25

Double Ended — Style 6

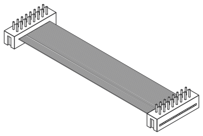

* MC = Multi-Color
GR = Gray

No. of Cont.	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Tin	6 (15.24)	MC	A6MMS-1006M-ND	3.79	30.88
		6 (15.24)	GR	A6MMS-1006G-ND	3.54	28.85
		18 (45.72)	MC	A6MMS-1018M-ND	4.55	37.02
		18 (45.72)	GR	A6MMS-1018G-ND	3.80	30.91
		36 (91.44)	MC	A6MMS-1036M-ND	5.68	46.21
		36 (91.44)	GR	A6MMS-1036G-ND	4.18	34.00
14	Tin	6 (15.24)	MC	A6MMS-1406M-ND	4.45	36.27
		6 (15.24)	GR	A6MMS-1406G-ND	4.09	33.28
		18 (45.72)	MC	A6MMS-1418M-ND	5.55	45.15
		18 (45.72)	GR	A6MMS-1418G-ND	4.44	36.16
		36 (91.44)	MC	A6MMS-1436M-ND	7.18	58.48
		36 (91.44)	GR	A6MMS-1436G-ND	4.97	40.49
16	Tin	6 (15.24)	MC	A6MMS-1606M-ND	5.16	42.00
		6 (15.24)	GR	A6MMS-1606G-ND	4.74	38.57
		18 (45.72)	MC	A6MMS-1618M-ND	6.40	52.15
		18 (45.72)	GR	A6MMS-1618G-ND	5.14	41.87
		36 (91.44)	MC	A6MMS-1636M-ND	8.27	67.37
		36 (91.44)	GR	A6MMS-1636G-ND	5.75	46.82
20	Tin	6 (15.24)	MC	A6MMS-2006M-ND	5.97	48.62
		6 (15.24)	GR	A6MMS-2006G-ND	5.45	44.34
		18 (45.72)	MC	A6MMS-2018M-ND	7.53	61.28
		18 (45.72)	GR	A6MMS-2018G-ND	5.95	48.46
		36 (91.44)	MC	A6MMS-2036M-ND	9.86	80.27
		36 (91.44)	GR	A6MMS-2036G-ND	6.71	54.64
24	Tin	6 (15.24)	MC	A6MMS-2406M-ND	6.71	54.65
		6 (15.24)	GR	A6MMS-2406G-ND	6.09	49.59
		18 (45.72)	MC	A6MMS-2418M-ND	8.56	69.73
		18 (45.72)	GR	A6MMS-2418G-ND	6.70	54.53
		36 (91.44)	MC	A6MMS-2436M-ND	11.34	92.34
		36 (91.44)	GR	A6MMS-2436G-ND	7.61	61.95
26	Tin	6 (15.24)	MC	A6MMS-2606M-ND	7.27	59.18
		6 (15.24)	GR	A6MMS-2606G-ND	6.57	53.51
		18 (45.72)	MC	A6MMS-2618M-ND	9.29	75.67
		18 (45.72)	GR	A6MMS-2618G-ND	7.20	58.66
		36 (91.44)	MC	A6MMS-2636M-ND	12.33	100.40
		36 (91.44)	GR	A6MMS-2636G-ND	8.15	66.39
34	Tin	6 (15.24)	MC	A6MMS-3406M-ND	8.76	71.37
		6 (15.24)	GR	A6MMS-3406G-ND	7.94	64.62
		18 (45.72)	MC	A6MMS-3418M-ND	11.28	91.86
		18 (45.72)	GR	A6MMS-3418G-ND	8.80	71.63
		36 (91.44)	MC	A6MMS-3436M-ND	15.06	122.60
		36 (91.44)	GR	A6MMS-3436G-ND	10.09	82.14
40	Tin	6 (15.24)	MC	A6MMS-4006M-ND	10.00	81.44
		6 (15.24)	GR	A6MMS-4006G-ND	8.95	72.88
		18 (45.72)	MC	A6MMS-4018M-ND	13.12	106.81
		18 (45.72)	GR	A6MMS-4018G-ND	9.96	81.13
		36 (91.44)	MC	A6MMS-4036M-ND	17.79	144.87
		36 (91.44)	GR	A6MMS-4036G-ND	11.48	93.49
50	Tin	6 (15.24)	MC	A6MMS-5006M-ND	11.70	95.30
		6 (15.24)	GR	A6MMS-5006G-ND	10.48	85.37
		18 (45.72)	MC	A6MMS-5018M-ND	15.41	125.45
		18 (45.72)	GR	A6MMS-5018G-ND	11.75	95.68
		36 (91.44)	MC	A6MMS-5036M-ND	20.96	170.68
		36 (91.44)	GR	A6MMS-5036G-ND	13.65	111.14
60	Tin	6 (15.24)	MC	A6MMS-6006M-ND	13.17	107.21
		6 (15.24)	GR	A6MMS-6006G-ND	11.71	95.31
		18 (45.72)	MC	A6MMS-6018M-ND	17.61	143.37
		18 (45.72)	GR	A6MMS-6018G-ND	13.22	107.68
		36 (91.44)	MC	A6MMS-6036M-ND	24.27	197.61
		36 (91.44)	GR	A6MMS-6036G-ND	15.50	126.23
64	Tin	6 (15.24)	MC	A6MMS-6406M-ND	22.40	182.37
		6 (15.24)	GR	A6MMS-6406G-ND	20.94	170.47
		18 (45.72)	MC	A6MMS-6418M-ND	26.84	218.52
		18 (45.72)	GR	A6MMS-6418G-ND	22.45	182.84
		36 (91.44)	MC	A6MMS-6436M-ND	33.50	272.76
		36 (91.44)	GR	A6MMS-6436G-ND	24.73	201.39

Double Ended — Style 8

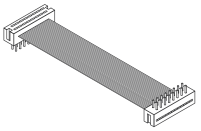

* MC = Multi-Color
GR = Gray

No. of Cont.	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Tin	6 (15.24)	MC	A8MMS-1006M-ND	3.79	30.88
		6 (15.24)	GR	A8MMS-1006G-ND	3.54	28.85
		18 (45.72)	MC	A8MMS-1018M-ND	4.55	37.02
		18 (45.72)	GR	A8MMS-1018G-ND	3.80	30.91
		36 (91.44)	MC	A8MMS-1036M-ND	5.68	46.21
		36 (91.44)	GR	A8MMS-1036G-ND	4.18	34.00
14	Tin	6 (15.24)	MC	A8MMS-1406M-ND	4.45	36.27
		6 (15.24)	GR	A8MMS-1406G-ND	4.09	33.28
		18 (45.72)	MC	A8MMS-1418M-ND	5.55	45.15
		18 (45.72)	GR	A8MMS-1418G-ND	4.44	36.16
		36 (91.44)	MC	A8MMS-1436M-ND	7.18	58.48
		36 (91.44)	GR	A8MMS-1436G-ND	4.97	40.49
16	Tin	6 (15.24)	MC	A8MMS-1606M-ND	5.16	42.00
		6 (15.24)	GR	A8MMS-1606G-ND	4.74	38.57
		18 (45.72)	MC	A8MMS-1618M-ND	6.40	52.15
		18 (45.72)	GR	A8MMS-1618G-ND	5.14	41.87
		36 (91.44)	MC	A8MMS-1636M-ND	8.27	67.37
		36 (91.44)	GR	A8MMS-1636G-ND	5.75	46.82
20	Tin	6 (15.24)	MC	A8MMS-2006M-ND	5.97	48.62
		6 (15.24)	GR	A8MMS-2006G-ND	5.45	44.34
		18 (45.72)	MC	A8MMS-2018M-ND	7.53	61.28
		18 (45.72)	GR	A8MMS-2018G-ND	5.95	48.46
		36 (91.44)	MC	A8MMS-2036M-ND	9.86	80.27
		36 (91.44)	GR	A8MMS-2036G-ND	6.71	54.64
24	Tin	6 (15.24)	MC	A8MMS-2406M-ND	6.71	54.65
		6 (15.24)	GR	A8MMS-2406G-ND	6.09	49.59
		18 (45.72)	MC	A8MMS-2418M-ND	8.56	69.73
		18 (45.72)	GR	A8MMS-2418G-ND	6.70	54.53
		36 (91.44)	MC	A8MMS-2436M-ND	11.34	92.34
		36 (91.44)	GR	A8MMS-2436G-ND	7.61	61.95
26	Tin	6 (15.24)	MC	A8MMS-2606M-ND	7.27	59.18
		6 (15.24)	GR	A8MMS-2606G-ND	6.57	53.51
		18 (45.72)	MC	A8MMS-2618M-ND	9.29	75.67
		18 (45.72)	GR	A8MMS-2618G-ND	7.20	58.66
		36 (91.44)	MC	A8MMS-2636M-ND	12.33	100.40
		36 (91.44)	GR	A8MMS-2636G-ND	8.15	66.39
34	Tin	6 (15.24)	MC	A8MMS-3406M-ND	8.76	71.37
		6 (15.24)	GR	A8MMS-3406G-ND	7.94	64.62
		18 (45.72)	MC	A8MMS-3418M-ND	11.28	91.86
		18 (45.72)	GR	A8MMS-3418G-ND	8.80	71.63
		36 (91.44)	MC	A8MMS-3436M-ND	15.06	122.60
		36 (91.44)	GR	A8MMS-3436G-ND	10.09	82.14
40	Tin	6 (15.24)	MC	A8MMS-4006M-ND	10.00	81.44
		6 (15.24)	GR	A8MMS-4006G-ND	8.95	72.88
		18 (45.72)	MC	A8MMS-4018M-ND	13.12	106.81
		18 (45.72)	GR	A8MMS-4018G-ND	9.96	81.13
		36 (91.44)	MC	A8MMS-4036M-ND	17.79	144.87
		36 (91.44)	GR	A8MMS-4036G-ND	11.48	93.49
50	Tin	6 (15.24)	MC	A8MMS-5006M-ND	11.70	95.30
		6 (15.24)	GR	A8MMS-5006G-ND	10.48	85.37
		18 (45.72)	MC	A8MMS-5018M-ND	15.41	125.45
		18 (45.72)	GR	A8MMS-5018G-ND	11.75	95.68
		36 (91.44)	MC	A8MMS-5036M-ND	20.96	170.68
		36 (91.44)	GR	A8MMS-5036G-ND	13.65	111.14
60	Tin	6 (15.24)	MC	A8MMS-6006M-ND	13.17	107.21
		6 (15.24)	GR	A8MMS-6006G-ND	11.71	95.31
		18 (45.72)	MC	A8MMS-6018M-ND	17.61	143.37
		18 (45.72)	GR	A8MMS-6018G-ND	13.22	107.68
		36 (91.44)	MC	A8MMS-6036M-ND	24.27	197.61
		36 (91.44)	GR	A8MMS-6036G-ND	15.50	126.23
64	Tin	6 (15.24)	MC	A8MMS-6406M-ND	22.40	182.37
		6 (15.24)	GR	A8MMS-6406G-ND	20.94	170.47
		18 (45.72)	MC	A8MMS-6418M-ND	26.84	218.52
		18 (45.72)	GR	A8MMS-6418G-ND	22.45	182.84
		36 (91.44)	MC	A8MMS-6436M-ND	33.50	272.76
		36 (91.44)	GR	A8MMS-6436G-ND	24.73	201.39

Socket Connectors

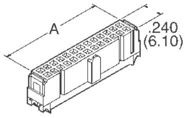

Socket Connector with Central Polarizing Key

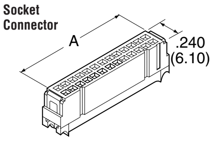

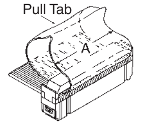

Permanent Pull-Tabs To Be Used With Strain Relief Version

Material and Finish: • Plastic Shell: Housing, Cover and Strain Relief — Black thermoplastic, 94V-0 rated • Gold Finish: Contacts — Phosphor bronze, duplex 15µ" gold or 30µ" gold on post/pin mating end, 100µ"-200µ" bright tin-lead on termination end, with entire contact underplated 50µ" nickel

No. of Cont.	Contact Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
Socket Connector Only — RoHS Compliant (Strain Reliefs Sold Separately)						
10	15µ" AU	.68 (17.27)	ASC10H-ND	1.32	6.36	1658620-1
14		.88 (22.35)	ASC14H-ND	1.94	9.30	1658620-2
16		.98 (24.89)	ASC16H-ND	2.04	9.78	1658620-3
20		1.18 (29.97)	ASC20H-ND	2.14	10.27	1658620-4
24		1.38 (35.05)	ASC24H-ND	3.40	16.33	1658620-5
26	15µ" AU	1.48 (37.59)	ASC26H-ND	3.40	16.33	1658620-6
30		1.68 (42.67)	ASC30H-ND	4.36	20.95	1658620-7
34		1.88 (47.75)	ASC34H-ND	3.80	18.22	1658620-8
40		2.18 (55.37)	ASC40H-ND	4.19	20.10	1658620-9
50		2.68 (68.07)	ASC50H-ND	5.10	24.21	1-1658620-0
64		3.38 (85.85)	ASC64H-ND	4.24	26.59	1-1658620-2
10	30µ" AU	.68 (17.27)	ASN10B-ND	1.63	7.83	1658623-1
14		.88 (22.35)	ASN14B-ND	2.14	10.27	1658623-2
16		.98 (24.89)	ASN16B-ND	2.24	10.76	1658623-3
20		1.18 (29.97)	ASN20B-ND	2.34	11.25	1658623-4
24		1.38 (35.05)	ASN24B-ND	4.87	23.38	1658623-5
26	30µ" AU	1.48 (37.59)	ASN26B-ND	3.40	16.33	1658623-6
30		1.68 (42.67)	ASN30B-ND	3.93	18.85	1658623-7
34		1.88 (47.75)	ASN34B-ND	4.32	20.73	1658623-8
40		2.18 (55.37)	ASN40B-ND	5.10	24.50	1658623-9
50		2.68 (68.07)	ASN50B-ND	6.15	29.53	1-1658623-0
Socket Connector With Polarizing Key — RoHS Compliant						
10	15µ" AU	.68 (17.27)	AKC10H-ND	1.96	9.28	1658621-1
14		.88 (22.35)	AKC14H-ND	2.86	13.73	1658621-2
16		.98 (24.89)	AKC16H-ND	3.01	14.45	1658621-3
20		1.18 (29.97)	AKC20H-ND	2.75	13.19	1658621-4
24		1.38 (35.05)	AKC24H-ND	3.40	16.33	1658621-5
26	15µ" AU	1.48 (37.59)	AKC26H-ND	3.40	16.33	1658621-6
30		1.68 (42.67)	AKC30H-ND	3.80	18.22	1658621-7
34		1.88 (47.75)	AKC34H-ND	3.80	18.22	1658621-8
40		2.18 (55.37)	AKC40H-ND	4.19	20.10	1658621-9
44		2.38 (60.45)	AKC44H-ND	4.88	23.17	1-1658621-3
50	15µ" AU	2.68 (68.07)	AKC50H-ND	5.10	24.50	1-1658621-0
60		3.18 (80.77)	AKC60H-ND	6.54	31.41	1-1658621-1
64		3.38 (85.85)	AKC64H-ND	7.20	34.55	1-1658621-2
10	30µ" AU	.68 (17.27)	AKN10B-ND	2.09	10.05	1658622-1
14		.88 (22.35)	AKN14B-ND	2.75	13.19	1658622-2
16		.98 (24.89)	AKN16B-ND	2.88	13.82	1658622-3
20		1.18 (29.97)	AKN20B-ND	3.01	14.45	1658622-4
24		1.38 (35.05)	AKN24B-ND	3.40	16.33	1658622-5
26	30µ" AU	1.48 (37.59)	AKN26B-ND	3.40	16.33	1658622-6
30		1.68 (42.67)	AKN30B-ND	4.32	20.73	1658622-7
34	30µ" AU	1.88 (47.75)	AKN34B-ND	4.32	20.73	1658622-8
40		2.18 (55.37)	AKN40B-ND	5.10	24.50	1658622-9
44		2.38 (60.45)	AKN44B-ND	6.02	28.90	1-1658622-3
50	30µ" AU	2.68 (68.07)	AKN50B-ND	6.15	29.53	1-1658622-0
60		3.18 (80.77)	AKN60B-ND	7.59	36.44	1-1658622-1
64		3.38 (85.85)	AKN64B-ND	8.38	40.21	1-1658622-2
Strain Relief For Socket Connectors — RoHS Compliant						
10	—	.68 (17.27)	ASSR10-ND	.36	1.48	499252-5
14		.88 (22.35)	ASSR14-ND	.36	1.48	499252-9
16		.98 (24.89)	ASSR16-ND	.36	1.48	499252-8
20		1.18 (29.97)	ASSR20-ND	.36	1.48	499252-2
24		1.38 (35.05)	ASSR24-ND	.30	1.90	1-499252-0
26	—	1.48 (37.59)	ASSR26-ND	.36	1.72	499252-3
30		1.68 (42.67)	ASSR30-ND	.36	1.72	1-499252-2
34		1.88 (47.75)	ASSR34-ND	.36	1.72	499252-6
40		2.18 (55.37)	ASSR40-ND	.36	2.01	499252-1
44		2.38 (60.45)	ASSR44-ND	.69	4.29	1-499252-1
50	—	2.68 (68.07)	ASSR50-ND	.37	2.29	499252-4
60		3.18 (80.77)	ASSR60-ND	.41	2.58	499252-7
64		3.38 (85.85)	ASSR64-ND	.50	3.15	1-499252-3
Permanent Pull Tabs (For Connectors With Strain Reliefs)						
Continuous Strip no positions		120.0 (3048.0)	ASPT01-ND	20.22	126.66	88450-1
Permanent Pull Tabs — RoHS Compliant (For Connectors With Strain Reliefs)						
10	—	.44 (11.18)	ASPS10-ND	.28	1.34	5088450-2
14		.64 (16.26)	ASPS14-ND	.25	1.18	5088450-3
16		.74 (18.80)	ASPS16-ND	.34	1.61	5088450-4
20		.88 (22.35)	ASPS20-ND	.34	1.61	5088450-5
26		1.18 (29.97)	ASPS26-ND	.38	1.84	5088450-7
34	—	1.58 (40.13)	ASPS34-ND	.33	1.58	5088450-8
40		1.82 (46.23)	ASPS40-ND	.36	1.75	5088450-9
50		2.32 (58.93)	ASPS50-ND	.57	2.75	1-5088450-0
60		2.80 (71.12)	ASPS60-ND	.85	4.07	1-5088450-1
Continuous Strip no positions		120.0 (3048.0)	ASKP03-ND	27.79	133.39	5088450-1
Keying Plug For Socket Connectors — RoHS Compliant						
Keying Plugs			ASKP01-ND	.15	1.39	499712-1
Keying Plugs 10/Comb			ASKP02-ND	1.22	11.02	104072-1

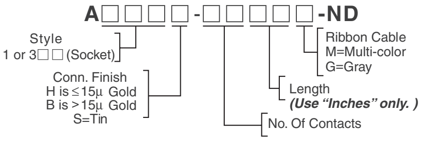

A□□□□-□□□□□-ND

Style
1 or 3□□ (Socket)

Conn. Finish
H is ≤15µ Gold
B is >15µ Gold
S=Tin

Ribbon Cable
M=Multi-color
G=Gray

Length
(Use "Inches" only.)

No. Of Contacts

Socket Connector Cable Assemblies

RoHS COMPLIANT

Socket Connector — Single Ended

* MC = Multi-Color
GR = Gray

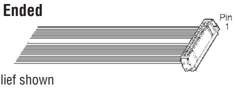

Socket connector without strain relief shown

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-1036M-ND A1AXH-1036G-ND	3.58 2.08	29.18 16.97
14	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-1436M-ND A1AXH-1436G-ND	5.21 3.00	42.41 24.42
16	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-1636M-ND A1AXH-1636G-ND	5.78 3.25	47.04 26.49
20	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-2036M-ND A1AXH-2036G-ND	6.98 3.83	56.81 31.18
24	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-2436M-ND A1AXH-2436G-ND	8.96 5.23	72.94 42.55
26	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-2636M-ND A1AXH-2636G-ND	9.65 5.47	78.56 44.55
30	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-3036M-ND A1AXH-3036G-ND	10.44 6.26	85.01 51.00
34	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-3436M-ND A1AXH-3436G-ND	11.35 6.38	92.39 51.93
40	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-4036M-ND A1AXH-4036G-ND	13.54 7.23	110.21 58.84
50	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-5036M-ND A1AXH-5036G-ND	17.23 9.92	140.34 80.79
64	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-6436M-ND A1AXH-6436G-ND	18.93 10.16	154.12 82.75

Also available in the following versions:

A1BXH-□□□□□-ND — Socket Connector with Strain Relief
Note: Also available with 60 contacts.
A1CXH-□□□□□-ND — Socket Connector with Central Polarizing Key
Note: Also available with 60 contacts.
A1DXH-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key
Note: Also available with 44 and 60 contacts.

Call for complete part number and pricing!

Socket Connector to Socket Connector

* MC = Multi-Color,
GR = Gray

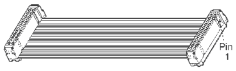

Socket connector without strain relief shown.

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-1006M-ND A3AAH-1006G-ND A3AAH-1018M-ND A3AAH-1018G-ND A3AAH-1036M-ND A3AAH-1036G-ND	3.03 2.78 3.78 3.03 4.91 3.41	24.64 22.61 30.77 24.67 39.97 27.76
14	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-1406M-ND A3AAH-1406G-ND A3AAH-1418M-ND A3AAH-1418G-ND A3AAH-1436M-ND A3AAH-1436G-ND	4.42 4.05 5.51 4.40 7.14 4.94	35.98 32.98 44.86 35.87 58.18 40.19
16	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-1606M-ND A3AAH-1606G-ND A3AAH-1618M-ND A3AAH-1618G-ND A3AAH-1636M-ND A3AAH-1636G-ND	4.70 4.28 5.95 4.68 7.82 5.29	38.27 34.84 48.42 38.14 63.64 43.09
20	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-2006M-ND A3AAH-2006G-ND A3AAH-2018M-ND A3AAH-2018G-ND A3AAH-2036M-ND A3AAH-2036G-ND	5.40 4.88 6.96 5.38 9.29 6.14	43.98 39.70 56.64 43.83 75.63 50.01
24	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-2406M-ND A3AAH-2406G-ND A3AAH-2418M-ND A3AAH-2418G-ND A3AAH-2436M-ND A3AAH-2436G-ND	7.73 7.11 9.58 7.72 12.36 8.63	62.95 57.89 78.03 62.84 100.65 70.26
26	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-2606M-ND A3AAH-2606G-ND A3AAH-2618M-ND A3AAH-2618G-ND A3AAH-2636M-ND A3AAH-2636G-ND	8.16 7.46 10.18 8.09 13.22 9.04	66.43 60.76 82.92 65.92 107.66 73.65
30	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-3006M-ND A3AAH-3006G-ND A3AAH-3018M-ND A3AAH-3018G-ND A3AAH-3036M-ND A3AAH-3036G-ND	9.74 9.05 11.77 9.68 14.80 10.63	79.33 73.66 95.82 78.81 120.55 86.54
34	Gold	6 (15.24) 6 (15.24) 18 (15.24) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-3406M-ND A3AAH-3406G-ND A3AAH-3418M-ND A3AAH-3418G-ND A3AAH-3436M-ND A3AAH-3436G-ND	8.85 8.02 11.37 8.88 15.14 10.17	72.06 65.32 92.55 72.32 123.29 82.83
40	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-4006M-ND A3AAH-4006G-ND A3AAH-4018M-ND A3AAH-4018G-ND A3AAH-4036M-ND A3AAH-4036G-ND	9.93 8.88 13.05 9.89 17.72 11.41	80.89 72.33 106.26 80.57 144.32 92.94
50	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-5006M-ND A3AAH-5006G-ND A3AAH-5018M-ND A3AAH-5018G-ND A3AAH-5036M-ND A3AAH-5036G-ND	14.10 12.88 17.81 14.15 23.36 16.05	114.83 104.90 144.98 115.21 190.22 130.67

(Continued)

Socket Connector Cable Assemblies

Socket Connector to Socket Connector *(Cont.)*

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
64	Gold	6 (15.24)	MC	A3AAH-6406M-ND	13.43	109.37
		6 (15.24)	GR	A3AAH-6406G-ND	11.97	97.47
		18 (45.72)	MC	A3AAH-6418M-ND	17.87	145.53
		18 (45.72)	GR	A3AAH-6418G-ND	13.49	109.84
		36 (91.44)	MC	A3AAH-6436M-ND	24.53	199.77
		36 (91.44)	GR	A3AAH-6436G-ND	15.77	128.40

Also available in the following versions:

A3BBH-□□□□□-ND — Socket Connector with Strain Relief.
Note: Also available with 60 contacts.
A3CCH-□□□□□-ND — Socket Connector with Central Polarizing Key.
Note: Also available with 44 and 60 contacts.
A3DDH-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key.
Note: Also available with 44 and 60 contacts.

Call for complete part number and pricing!

Socket Connector to Pin Connector

* MC = Multi-Color
GR = Gray

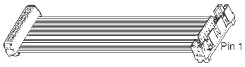

Socket connector without strain relief, plug connector without flange, without strain relief shown.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Gold	6 (15.24)	MC	A3AKB-1006M-ND	8.41	68.50
		6 (15.24)	GR	A3AKB-1006G-ND	8.16	66.46
		18 (45.72)	MC	A3AKB-1018M-ND	9.17	74.63
		18 (45.72)	GR	A3AKB-1018G-ND	8.42	68.52
		36 (91.44)	MC	A3AKB-1036M-ND	10.29	83.83
		36 (91.44)	GR	A3AKB-1036G-ND	8.79	71.62
14	Gold	6 (15.24)	MC	A3AKB-1406M-ND	16.30	132.73
		6 (15.24)	GR	A3AKB-1406G-ND	15.93	129.74
		18 (45.72)	MC	A3AKB-1418M-ND	17.39	141.61
		18 (45.72)	GR	A3AKB-1418G-ND	16.29	132.62
		36 (91.44)	MC	A3AKB-1436M-ND	19.03	154.93
		36 (91.44)	GR	A3AKB-1436G-ND	16.82	136.95
16	Gold	6 (15.24)	MC	A3AKB-1606M-ND	10.08	82.04
		6 (15.24)	GR	A3AKB-1606G-ND	9.65	78.62
		18 (45.72)	MC	A3AKB-1618M-ND	11.32	92.19
		18 (45.72)	GR	A3AKB-1618G-ND	10.06	81.91
		36 (91.44)	MC	A3AKB-1636M-ND	13.19	107.41
		36 (91.44)	GR	A3AKB-1636G-ND	10.67	86.86
20	Gold	6 (15.24)	MC	A3AKB-2006M-ND	10.86	88.40
		6 (15.24)	GR	A3AKB-2006G-ND	10.33	84.13
		18 (45.72)	MC	A3AKB-2018M-ND	12.41	101.07
		18 (45.72)	GR	A3AKB-2018G-ND	10.84	88.25
		36 (91.44)	MC	A3AKB-2036M-ND	14.74	120.06
		36 (91.44)	GR	A3AKB-2036G-ND	11.60	94.43
26	Gold	6 (15.24)	MC	A3AKB-2606M-ND	19.83	161.44
		6 (15.24)	GR	A3AKB-2606G-ND	19.13	155.77
		18 (45.72)	MC	A3AKB-2618M-ND	21.85	177.93
		18 (45.72)	GR	A3AKB-2618G-ND	19.76	160.92
		36 (91.44)	MC	A3AKB-2636M-ND	24.89	202.67
		36 (91.44)	GR	A3AKB-2636G-ND	20.71	168.65
30	Gold	6 (15.24)	MC	A3AKB-3006M-ND•	21.29	173.32
		6 (15.24)	GR	A3AKB-3006G-ND•	20.59	167.65
		18 (45.72)	MC	A3AKB-3018M-ND•	23.31	189.81
		18 (45.72)	GR	A3AKB-3018G-ND•	21.22	172.81
		36 (91.44)	MC	A3AKB-3036M-ND•	26.35	214.55
		36 (91.44)	GR	A3AKB-3036G-ND•	22.17	180.54
34	Gold	6 (15.24)	MC	A3AKB-3406M-ND•	16.21	132.01
		6 (15.24)	GR	A3AKB-3406G-ND•	15.38	125.27
		18 (45.72)	MC	A3AKB-3418M-ND•	18.73	152.51
		18 (45.72)	GR	A3AKB-3418G-ND•	16.24	132.28
		36 (91.44)	MC	A3AKB-3436M-ND•	22.50	183.25
		36 (91.44)	GR	A3AKB-3436G-ND•	17.54	142.79
40	Gold	6 (15.24)	MC	A3AKB-4006M-ND•	25.40	206.85
		6 (15.24)	GR	A3AKB-4006G-ND•	24.35	198.29
		18 (45.72)	MC	A3AKB-4018M-ND•	28.52	232.22
		18 (45.72)	GR	A3AKB-4018G-ND•	25.36	206.54
		36 (91.44)	MC	A3AKB-4036M-ND•	33.19	270.28
		36 (91.44)	GR	A3AKB-4036G-ND•	26.88	218.90
50	Gold	6 (15.24)	MC	A3AKB-5006M-ND	25.01	203.66
		6 (15.24)	GR	A3AKB-5006G-ND	23.79	193.73
		18 (45.72)	MC	A3AKB-5018M-ND	28.71	233.81
		18 (45.72)	GR	A3AKB-5018G-ND	25.06	204.04
		36 (91.44)	MC	A3AKB-5036M-ND	34.27	279.05
		36 (91.44)	GR	A3AKB-5036G-ND	26.96	219.50

Also available in the following versions:

A3BRB-□□□□□-ND — Socket Connector with Strain Relief.
Note: Also available with 24 contacts.
A3CKB-□□□□□-ND — Socket Connector with Central Polarizing Key.
Note: Also available with 64 contacts.
A3DKB-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key.
Note: Also available with 24 and 64 contacts.

- Not available with Strain Relief

Call for complete part number and pricing!

Pin Connectors

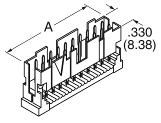

Material and Finish: • Housing and Cover: Black thermoplastic, 94V-0 rated

Electrical Characteristics: • Contact Current Rating: 1 Amp • Dielectric Withstanding Voltage: Pin connectors 500 Volts, RMS

Contacts: • Phosphor Bronze, 30µ” AU pin end; .000100 tin on cable termination end; entire contact underplated with 50µ” nickel.
Specifications: • Operating Temperature: -65°C ~ 105°C

Recognized under Component Program of Underwriters Laboratories Inc. File No. E28476.

Certified by Canadian Standards Association File No. LR16455.

No. of Contacts	Contact Finish	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
Pin Connectors (Strain Reliefs Sold Separately)						
16	30µ” AU	1.372 (34.85)	APK16A-ND	6.47	58.21	111446-3
26		1.872 (47.55)	APK26A-ND	15.57	140.11	111446-6
30		2.072 (52.63)	APK30A-ND	19.92	179.30	111446-7
Pin Connectors — RoHS Compliant (Strain Reliefs Sold Separately)						
10	30µ” AU	1.072 (27.23)	APK10B-ND	6.41	30.74	1-111446-4
14		1.272 (32.31)	APK14B-ND	13.62	65.35	1-111446-5
16		1.372 (34.85)	APK16B-ND	7.21	34.61	1-111446-6
20		1.572 (39.93)	APK20B-ND	7.74	37.13	1-111446-8
24		1.772 (45.01)	APK24B-ND	11.25	101.21	1-111446-9
26	30µ” AU	1.872 (47.55)	APK26B-ND	14.56	69.89	2-111446-0
30		2.072 (52.63)	APK30B-ND	15.37	73.75	2-111446-1
34		2.272 (57.71)	APK34B-ND	9.56	45.86	2-111446-2
40		2.572 (65.33)	APK40B-ND	17.47	83.83	2-111446-3
50		3.072 (78.03)	APK50B-ND	14.18	68.04	1-111446-7
64		3.772 (95.81)	APK64B-ND	22.96	110.21	2-111446-6
Strain Reliefs For Pin Connectors — RoHS Compliant						
10	—	—	APSR10-ND	6.95	62.57	111547-1
14		—	APSR14-ND	6.32	56.88	111547-2
16		—	APSR16-ND	5.45	49.08	111547-3
20		—	APSR20-ND	5.56	50.01	111547-4
24		—	APSR24-ND	4.68	42.10	111547-5
26	—	—	APSR26-ND	4.42	39.76	111547-6
30		—	APSR30-ND	4.59	41.32	111547-7
34		—	APSR34-ND	5.23	47.05	111547-8
40		—	APSR40-ND	4.89	44.02	111547-9
50		—	APSR50-ND	5.17	46.55	1-111547-1

Description	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
Snap-In Polarizer — RoHS Compliant				
For Pin Connectors, Univ. Pin, Pinless Headers and Low Profile Pin Headers	A24195-ND	2.03	18.28	499991-2
Latch Ejector (2 Required per Connector) RoHS Compliant				
Short (for Connectors without Strain Relief)	ALSN02-ND	2.44/2	11.27/10	111451-1
Long (for Connectors with Strain Relief)	ALLN02-ND	2.82/2	13.01/10	111451-3

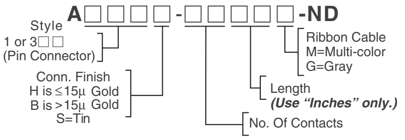

Pin Connector Cable Assemblies

Pin Connector — Single Ended

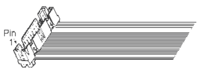

* MC = Multi-Color
GR = Gray

Pin connector without flange, without strain relief shown.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Gold	36 (91.44)	MC	A1KXB-1036M-ND	8.66	70.55
		36 (91.44)	GR	A1KXB-1036G-ND	7.16	58.34
14	Gold	36 (91.44)	MC	A1KXB-1436M-ND	16.89	137.51
		36 (91.44)	GR	A1KXB-1436G-ND	14.68	119.52
16	Gold	36 (91.44)	MC	A1KXB-1636M-ND	10.95	89.15
		36 (91.44)	GR	A1KXB-1636G-ND	8.42	68.60
20	Gold	36 (91.44)	MC	A1KXB-2036M-ND	12.40	100.98
		36 (91.44)	GR	A1KXB-2036G-ND	9.25	75.35
26	Gold	36 (91.44)	MC	A1KXB-2636M-ND	20.64	168.03
		36 (91.44)	GR	A1KXB-2636G-ND	16.46	134.02
30	Gold	36 (91.44)	MC	A1KXB-3036M-ND•	21.44	174.59
		36 (91.44)	GR	A1KXB-3036G-ND•	17.26	140.57
34	Gold	36 (91.44)	MC	A1KXB-3436M-ND•	17.11	139.29
		36 (91.44)	GR	A1KXB-3436G-ND•	12.14	98.83
40	Gold	36 (91.44)	MC	A1KXB-4036M-ND•	26.81	218.33
		36 (91.44)	GR	A1KXB-4036G-ND•	20.50	166.95
50	Gold	36 (91.44)	MC	A1KXB-5036M-ND	26.58	216.43
		36 (91.44)	GR	A1KXB-5036G-ND	19.27	156.89
64	Gold	36 (91.44)	MC	A1KXB-6436M-ND•	36.28	295.44
		36 (91.44)	GR	A1KXB-6436G-ND•	27.52	224.06

Also available in the following version:

A1RXB-□□□□□-ND — Pin Connector with Strain Relief and Polarizing Key.
Note: Also available with 24 contacts.

- Not available with Strain Relief

Call for complete part number and pricing!

Pin Connector to Pin Connector

* MC = Multi-Color
GR = Gray

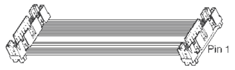

Pin connector, without strain relief shown.

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Gold	6 (15.24)	MC	A3KKB-1006M-ND	13.19	107.38
		6 (15.24)	GR	A3KKB-1006G-ND	12.94	105.34
		18 (45.72)	MC	A3KKB-1018M-ND	13.94	113.51
		18 (45.72)	GR	A3KKB-1018G-ND	13.19	107.40
		36 (91.44)	MC	A3KKB-1036M-ND	15.07	122.70
		36 (91.44)	GR	A3KKB-1036G-ND	13.57	110.49
14	Gold	6 (15.24)	MC	A3KKB-1406M-ND	27.78	226.17
		6 (15.24)	GR	A3KKB-1406G-ND	27.41	223.17
		18 (45.72)	MC	A3KKB-1418M-ND	28.87	235.05
		18 (45.72)	GR	A3KKB-1418G-ND	27.76	226.06
		36 (91.44)	MC	A3KKB-1436M-ND	30.50	248.37
		36 (91.44)	GR	A3KKB-1436G-ND	28.29	230.39
16	Gold	6 (15.24)	MC	A3KKB-1606M-ND	15.04	122.49
		6 (15.24)	GR	A3KKB-1606G-ND	14.62	119.07
		18 (45.72)	MC	A3KKB-1618M-ND	16.29	132.64
		18 (45.72)	GR	A3KKB-1618G-ND	15.03	122.37
		36 (91.44)	MC	A3KKB-1636M-ND	18.16	147.86
		36 (91.44)	GR	A3KKB-1636G-ND	15.63	127.31
20	Gold	6 (15.24)	MC	A3KKB-2006M-ND	16.25	132.30
		6 (15.24)	GR	A3KKB-2006G-ND	15.72	128.03
		18 (45.72)	MC	A3KKB-2018M-ND	17.80	144.97
		18 (45.72)	GR	A3KKB-2018G-ND	16.23	132.15
		36 (91.44)	MC	A3KKB-2036M-ND	20.14	163.96
		36 (91.44)	GR	A3KKB-2036G-ND	16.99	138.33
26	Gold	6 (15.24)	MC	A3KKB-2606M-ND	30.13	245.37
		6 (15.24)	GR	A3KKB-2606G-ND	29.44	239.70
		18 (45.72)	MC	A3KKB-2618M-ND	32.16	261.86
		18 (45.72)	GR	A3KKB-2618G-ND	30.07	244.85
		36 (91.44)	MC	A3KKB-2636M-ND	35.20	286.59
		36 (91.44)	GR	A3KKB-2636G-ND	31.02	252.58
30	Gold	6 (15.24)	MC	A3KKB-3006M-ND•	31.74	258.48
		6 (15.24)	GR	A3KKB-3006G-ND•	31.05	252.81
		18 (45.72)	MC	A3KKB-3018M-ND•	33.77	274.97
		18 (45.72)	GR	A3KKB-3018G-ND•	31.68	257.96
		36 (91.44)	MC	A3KKB-3036M-ND•	36.81	299.70
		36 (91.44)	GR	A3KKB-3036G-ND•	32.63	265.69
34	Gold	6 (15.24)	MC	A3KKB-3406M-ND•	20.37	165.86
		6 (15.24)	GR	A3KKB-3406G-ND•	19.54	159.11
		18 (45.72)	MC	A3KKB-3418M-ND•	22.89	186.35
		18 (45.72)	GR	A3KKB-3418G-ND•	20.40	166.12
		36 (91.44)	MC	A3KKB-3436M-ND•	26.66	217.09
		36 (91.44)	GR	A3KKB-3436G-ND•	21.69	176.63
40	Gold	6 (15.24)	MC	A3KKB-4006M-ND•	36.49	297.12
		6 (15.24)	GR	A3KKB-4006G-ND•	35.44	288.55
		18 (45.72)	MC	A3KKB-4018M-ND•	39.60	322.49
		18 (45.72)	GR	A3KKB-4018G-ND•	36.45	296.80
		36 (91.44)	MC	A3KKB-4036M-ND•	44.28	360.54
		36 (91.44)	GR	A3KKB-4036G-ND•	37.97	309.17
50	Gold	6 (15.24)	MC	A3KKB-5006M-ND	32.79	267.02
		6 (15.24)	GR	A3KKB-5006G-ND	31.57	257.09
		18 (45.72)	MC	A3KKB-5018M-ND	36.49	297.17
		18 (45.72)	GR	A3KKB-5018G-ND	32.84	267.40
		36 (91.44)	MC	A3KKB-5036M-ND	42.05	342.40
		36 (91.44)	GR	A3KKB-5036G-ND	34.74	282.86
64	Gold	6 (15.24)	MC	A3KKB-6406M-ND•	48.14	392.00
		6 (15.24)	GR	A3KKB-6406G-ND•	46.68	380.10
		18 (45.72)	MC	A3KKB-6418M-ND•	52.58	428.16
		18 (45.72)	GR	A3KKB-6418G-ND•	48.20	392.47
		36 (91.44)	MC	A3KKB-6436M-ND•	59.24	482.40
		36 (91.44)	GR	A3KKB-6436G-ND•	50.48	411.02

Also available in the following version:

A3RRB-□□□□□-ND — Pin Connector with Strain Relief & Polarizing Key.
Note: Also available with 24 contacts.

- Not available with Strain Relief

Call for complete part number and pricing!

CW INDUSTRIES

D-Subminiature Connectors

All Plastic Shell Male	All Plastic Shell Female	Metal Face Male	Metal Face Female
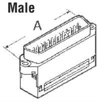	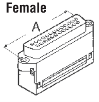	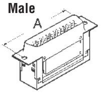	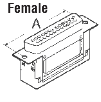

Specifications: • Contacts: phosphor bronze • Contact Plating: 10μ inch gold (in mating area) over 50μ inch nickel or 100μ inch tin-lead • Insulator material: UL 94V-0 flame-retardant thermoplastic • Cover pull-off force 226.79 grams/contact minimum (force applied along contacts primary axis) • Withdrawal force 56.70g – 226.79g/contact, typical • Color: blue • Operating Temperature: –55°C ~ 125°C • Current 1A (maximum) per contact • Dielectric Withstand Voltage: 500VDC (sea level) • Insulation resistance: 5 x $10^9 \Omega$

No. of Cont.	Cont. Finish	Dimension A In.(mm)	Digi-Key Part No.	Pricing 1	10	100
Male D-Subminiature Connectors, Plastic Shell						
9	Gold	.984(24.99)	CMP09G-ND◆	3.66	27.73	212.40
	Tin	.984(24.99)	CMP09S-ND◆	3.10	23.50	180.00
	Tin-Lead	.984(24.99)	CMP09T-ND	3.10	23.50	180.00
15	Gold	1.312(33.32)	CMP15G-ND◆	4.84	36.66	280.80
	Tin	1.312(33.32)	CMP15S-ND◆	4.12	31.26	239.40
	Tin-Lead	1.312(33.32)	CMP15T-ND	4.12	31.26	239.40
25	Gold	1.852(47.04)	CMP25G-ND◆	6.51	49.35	378.00
	Tin	1.852(47.04)	CMP25S-ND◆	5.55	42.07	322.20
37	Gold	2.500(63.50)	CMP37G-ND◆	9.61	72.85	558.00
	Tin	2.500(63.50)	CMP37S-ND◆	8.18	62.04	475.20
Female D-Subminiature Connectors, Plastic Shell						
9	Gold	.984(24.99)	CFP09G-ND◆	4.22	31.96	244.80
	Tin	.984(24.99)	CFP09S-ND◆	3.60	27.26	208.80
15	Gold	1.312(33.32)	CFP15G-ND◆	5.52	41.83	320.40
	Tin	1.312(33.32)	CFP15S-ND◆	4.68	35.49	271.80
	Tin-Lead	1.312(33.32)	CFP15T-ND	4.68	35.49	271.80
25	Gold	1.852(47.04)	CFP25G-ND◆	7.50	56.87	435.60
	Tin	1.852(47.04)	CFP25S-ND◆	6.39	48.41	370.80
	Tin-Lead	1.852(47.04)	CFP25T-ND	6.39	48.41	370.80
37	Gold	2.500(63.50)	CFP37G-ND◆	11.10	84.13	644.40
	Tin	2.500(63.50)	CFP37S-ND◆	9.42	71.44	547.20
	Tin-Lead	2.500(63.50)	CFP37T-ND	9.42	71.44	547.20
Male D-Subminiature Connectors, Metal Face						
9	Gold	.984(24.99)	CMM09G-ND◆	4.00	30.32	232.20
	Tin	.984(24.99)	CMM09S-ND◆	3.41	25.85	198.00
15	Gold	1.312(33.32)	CMM15G-ND◆	5.27	39.95	306.00
	Tin	1.312(33.32)	CMM15S-ND◆	4.50	34.08	261.00
25	Gold	1.852(47.04)	CMM25G-ND◆	7.16	54.29	415.80
	Tin	1.852(47.04)	CMM25S-ND◆	6.08	46.06	352.80
37	Gold	2.500(63.50)	CMM37G-ND◆	10.60	80.37	615.60
	Tin	2.500(63.50)	CMM37S-ND◆	9.02	68.39	523.80
	Tin-Lead	2.500(63.50)	CMM37T-ND	9.02	68.39	523.80
Female D-Subminiature Connectors, Metal Face						
9	Gold	.984(24.99)	CFM09G-ND◆	4.65	35.25	270.00
	Tin	.984(24.99)	CFM09S-ND◆	3.97	30.08	230.40
15	Gold	1.312(33.32)	CFM15G-ND◆	6.05	45.83	351.00
	Tin	1.312(33.32)	CFM15S-ND◆	5.15	39.01	298.80
25	Gold	1.852(47.04)	CFM25G-ND◆	8.22	62.28	477.00
	Tin	1.852(47.04)	CFM25S-ND◆	6.98	52.88	405.00
37	Gold	2.500(63.50)	CFM37G-ND◆	12.18	92.36	707.40
	Tin	2.500(63.50)	CFM37S-ND◆	10.35	78.49	601.20

◆ *RoHS Compliant*

D-Subminiature Cable Assemblies

RoHS COMPLIANT

Single Ended — Male

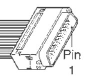

* MC = Multi-Color
GR = Gray

No. of Cont.	Cont. Finish	Length Feet (Meters)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7MXG-0906M-ND	8.78	66.53
	Tin	6 (1.83)	MC	C7MXS-0906M-ND	8.22	62.30
	Gold	6 (1.83)	GR	C7MXG-0906G-ND	5.02	38.04
	Tin	6 (1.83)	GR	C7MXS-0906G-ND	4.46	33.81
	Gold	10 (3.05)	MC	C7MXG-0910M-ND	12.19	92.40
	Tin	10 (3.05)	MC	C7MXS-0910M-ND	11.63	88.17
	Gold	10 (3.05)	GR	C7MXG-0910G-ND	5.92	44.91
	Tin	10 (3.05)	GR	C7MXS-0910G-ND	5.37	40.68
15	Gold	6 (1.83)	MC	C7MXG-1506M-ND	12.05	91.38
	Tin	6 (1.83)	MC	C7MXS-1506M-ND	11.34	85.98
	Gold	6 (1.83)	GR	C7MXG-1506G-ND	7.10	53.84
	Tin	6 (1.83)	GR	C7MXS-1506G-ND	6.39	48.44
	Gold	10 (3.05)	MC	C7MXG-1510M-ND	16.87	127.86
	Tin	10 (3.05)	MC	C7MXS-1510M-ND	16.15	122.46
	Gold	10 (3.05)	GR	C7MXG-1510G-ND	8.61	65.30
	Tin	10 (3.05)	GR	C7MXS-1510G-ND	7.90	59.89
25	Gold	6 (1.83)	MC	C7MXG-2506M-ND	18.54	140.56
	Tin	6 (1.83)	MC	C7MXS-2506M-ND	17.58	133.27
	Gold	6 (1.83)	GR	C7MXG-2506G-ND	10.72	81.25
	Tin	6 (1.83)	GR	C7MXS-2506G-ND	9.76	73.96
	Gold	10 (3.05)	MC	C7MXG-2510M-ND	26.56	201.36
	Tin	10 (3.05)	MC	C7MXS-2510M-ND	25.60	194.08
	Gold	10 (3.05)	GR	C7MXG-2510G-ND	13.52	102.51
	Tin	10 (3.05)	GR	C7MXS-2510G-ND	12.56	95.23
37	Gold	6 (1.83)	MC	C7MXG-3706M-ND	28.86	218.78
	Tin	6 (1.83)	MC	C7MXS-3706M-ND	27.43	207.97
	Gold	6 (1.83)	GR	C7MXG-3706G-ND	15.22	115.36
	Tin	6 (1.83)	GR	C7MXS-3706G-ND	13.79	104.55
	Gold	10 (3.05)	MC	C7MXG-3710M-ND	41.69	316.07
	Tin	10 (3.05)	MC	C7MXS-3710M-ND	40.27	305.26
	Gold	10 (3.05)	GR	C7MXG-3710G-ND	18.96	143.70
	Tin	10 (3.05)	GR	C7MXS-3710G-ND	17.53	132.89

Also available in the following configuration:
C7PX□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Single Ended — Female

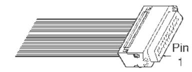

* MC = Multi-Color,
GR = Gray

No. of Cont.	Cont. Finish	Length Feet (Meters)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7FXG-0906M-ND	9.33	70.76
	Tin	6 (1.83)	MC	C7FXS-0906M-ND	8.71	66.06
	Gold	6 (1.83)	GR	C7FXG-0906G-ND	5.58	42.27
	Tin	6 (1.83)	GR	C7FXS-0906G-ND	4.96	37.57
	Gold	10 (3.05)	MC	C7FXG-0910M-ND	12.75	96.63
	Tin	10 (3.05)	MC	C7FXS-0910M-ND	12.13	91.93
	Gold	10 (3.05)	GR	C7FXG-0910G-ND	6.48	49.14
	Tin	10 (3.05)	GR	C7FXS-0910G-ND	5.86	44.44
15	Gold	6 (1.83)	MC	C7FXG-1506M-ND	12.74	96.55
	Tin	6 (1.83)	MC	C7FXS-1506M-ND	11.90	90.21
	Gold	6 (1.83)	GR	C7FXG-1506G-ND	7.78	59.01
	Tin	6 (1.83)	GR	C7FXS-1506G-ND	6.95	52.67
	Gold	10 (3.05)	MC	C7FXG-1510M-ND	17.55	133.03
	Tin	10 (3.05)	MC	C7FXS-1510M-ND	16.71	126.69
	Gold	10 (3.05)	GR	C7FXG-1510G-ND	9.30	70.47
	Tin	10 (3.05)	GR	C7FXS-1510G-ND	8.46	64.12
25	Gold	6 (1.83)	MC	C7FXG-2506M-ND	19.53	148.08
	Tin	6 (1.83)	MC	C7FXS-2506M-ND	18.42	139.62
	Gold	6 (1.83)	GR	C7FXG-2506G-ND	11.71	88.77
	Tin	6 (1.83)	GR	C7FXS-2506G-ND	10.59	80.31
	Gold	10 (3.05)	MC	C7FXG-2510M-ND	27.55	208.88
	Tin	10 (3.05)	MC	C7FXS-2510M-ND	26.44	200.42
	Gold	10 (3.05)	GR	C7FXG-2510G-ND	14.52	110.03
	Tin	10 (3.05)	GR	C7FXS-2510G-ND	13.40	101.57
37	Gold	6 (1.83)	MC	C7FXG-3706M-ND	30.35	230.06
	Tin	6 (1.83)	MC	C7FXS-3706M-ND	28.67	217.37
	Gold	6 (1.83)	GR	C7FXG-3706G-ND	16.71	126.64
	Tin	6 (1.83)	GR	C7FXS-3706G-ND	15.03	113.95
	Gold	10 (3.05)	MC	C7FXG-3710M-ND	43.18	327.35
	Tin	10 (3.05)	MC	C7FXS-3710M-ND	41.51	314.66
	Gold	10 (3.05)	GR	C7FXG-3710G-ND	20.44	154.98
	Tin	10 (3.05)	GR	C7FXS-3710G-ND	18.77	142.29

Also available in the following configuration:
C7SX□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Male to Male

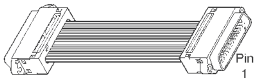

* MC = Multi-Color,
GR = Gray

No. of Cont.	Cont. Finish	Length Feet (Meters)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7MMG-0906M-ND	12.43	94.26
	Tin	6 (1.83)	MC	C7MMS-0906M-ND	11.32	85.80
	Gold	6 (1.83)	GR	C7MMG-0906G-ND	8.68	65.77
	Tin	6 (1.83)	GR	C7MMS-0906G-ND	7.56	57.31
	Gold	10 (3.05)	MC	C7MMG-0910M-ND	15.85	120.13
	Tin	10 (3.05)	MC	C7MMS-0910M-ND	14.73	111.67
	Gold	10 (3.05)	GR	C7MMG-0910G-ND	9.58	72.64
	Tin	10 (3.05)	GR	C7MMS-0910G-ND	8.47	64.18
15	Gold	6 (1.83)	MC	C7MMG-1506M-ND	16.89	128.04
	Tin	6 (1.83)	MC	C7MMS-1506M-ND	15.46	117.23
	Gold	6 (1.83)	GR	C7MMG-1506G-ND	11.94	90.50
	Tin	6 (1.83)	GR	C7MMS-1506G-ND	10.51	79.69
	Gold	10 (3.05)	MC	C7MMG-1510M-ND	21.70	164.52
	Tin	10 (3.05)	MC	C7MMS-1510M-ND	20.28	153.71
	Gold	10 (3.05)	GR	C7MMG-1510G-ND	13.45	101.96
	Tin	10 (3.05)	GR	C7MMS-1510G-ND	12.02	91.15
25	Gold	6 (1.83)	MC	C7MMG-2506M-ND	25.05	189.91
	Tin	6 (1.83)	MC	C7MMS-2506M-ND	23.13	175.34
	Gold	6 (1.83)	GR	C7MMG-2506G-ND	17.23	130.60
	Tin	6 (1.83)	GR	C7MMS-2506G-ND	15.31	116.03
	Gold	10 (3.05)	MC	C7MMG-2510M-ND	33.07	250.71
	Tin	10 (3.05)	MC	C7MMS-2510M-ND	31.15	236.14
	Gold	10 (3.05)	GR	C7MMG-2510G-ND	20.03	151.86
	Tin	10 (3.05)	GR	C7MMS-2510G-ND	18.11	137.29
37	Gold	6 (1.83)	MC	C7MMG-3706M-ND	38.47	291.63
	Tin	6 (1.83)	MC	C7MMS-3706M-ND	35.62	270.01
	Gold	6 (1.83)	GR	C7MMG-3706G-ND	24.83	188.21
	Tin	6 (1.83)	GR	C7MMS-3706G-ND	21.98	166.59
	Gold	10 (3.05)	MC	C7MMG-3710M-ND	51.30	388.92
	Tin	10 (3.05)	MC	C7MMS-3710M-ND	48.45	367.30
	Gold	10 (3.05)	GR	C7MMG-3710G-ND	28.57	216.55
	Tin	10 (3.05)	GR	C7MMS-3710G-ND	25.71	194.93

Also available in the following configuration:
C7PP□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Female to Female

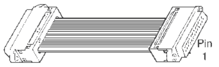

* MC = Multi-Color,
GR = Gray

No. of Cont.	Cont. Finish	Length Feet (Meters)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7FFG-0906M-ND	13.55	102.72
	Tin	6 (1.83)	MC	C7FFS-0906M-ND	12.31	93.32
	Gold	6 (1.83)	GR	C7FFG-0906G-ND	9.79	74.23
	Tin	6 (1.83)	GR	C7FFS-0906G-ND	8.55	64.83
	Gold	10 (3.05)	MC	C7FFG-0910M-ND	16.96	128.59
	Tin	10 (3.05)	MC	C7FFS-0910M-ND	15.72	119.19
	Gold	10 (3.05)	GR	C7FFG-0910G-ND	10.70	81.10
	Tin	10 (3.05)	GR	C7FFS-0910G-ND	9.46	71.70
15	Gold	6 (1.83)	MC	C7FFG-1506M-ND	18.25	138.38
	Tin	6 (1.83)	MC	C7FFS-1506M-ND	16.58	125.69
	Gold	6 (1.83)	GR	C7FFG-1506G-ND	13.30	100.84
	Tin	6 (1.83)	GR	C7FFS-1506G-ND	11.63	88.15
	Gold	10 (3.05)	MC	C7FFG-1510M-ND	23.07	174.86
	Tin	10 (3.05)	MC	C7FFS-1510M-ND	21.39	162.17
	Gold	10 (3.05)	GR	C7FFG-1510G-ND	14.81	112.30
	Tin	10 (3.05)	GR	C7FFS-1510G-ND	13.14	99.61
25	Gold	6 (1.83)	MC	C7FFG-2506M-ND	27.04	204.95
	Tin	6 (1.83)	MC	C7FFS-2506M-ND	24.80	188.03
	Gold	6 (1.83)	GR	C7FFG-2506G-ND	19.21	145.64
	Tin	6 (1.83)	GR	C7FFS-2506G-ND	16.98	128.72
	Gold	10 (3.05)	MC	C7FFG-2510M-ND	35.06	265.75
	Tin	10 (3.05)	MC	C7FFS-2510M-ND	32.82	248.83
	Gold	10 (3.05)	GR	C7FFG-2510G-ND	22.02	166.90
	Tin	10 (3.05)	GR	C7FFS-2510G-ND	19.79	149.98
37	Gold	6 (1.83)	MC	C7FFG-3706M-ND	41.45	314.19
	Tin	6 (1.83)	MC	C7FFS-3706M-ND	38.10	288.81
	Gold	6 (1.83)	GR	C7FFG-3706G-ND	27.80	210.77
	Tin	6 (1.83)	GR	C7FFS-3706G-ND	24.46	185.39
	Gold	10 (3.05)	MC	C7FFG-3710M-ND	54.28	411.48
	Tin	10 (3.05)	MC	C7FFS-3710M-ND	50.93	386.10
	Gold	10 (3.05)	GR	C7FFG-3710G-ND	31.54	239.11
	Tin	10 (3.05)	GR	C7FFS-3710G-ND	28.19	213.73

Also available in the following configuration:
C7SS□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Male to Female

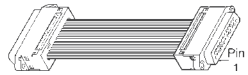

* MC = Multi-Color,
GR = Gray

No. of Cont.	Cont. Finish	Length Feet (Meters)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7MFG-0906M-ND	12.99	98.49
	Tin	6 (1.83)	MC	C7MFS-0906M-ND	11.81	89.56
	Gold	6 (1.83)	GR	C7MFG-0906G-ND	9.23	70.00
	Tin	6 (1.83)	GR	C7MFS-0906G-ND	8.06	61.07
	Gold	10 (3.05)	MC	C7MFG-0910M-ND	16.41	124.36
	Tin	10 (3.05)	MC	C7MFS-0910M-ND	15.23	115.43
	Gold	10 (3.05)	GR	C7MFG-0910G-ND	10.14	76.87
	Tin	10 (3.05)	GR	C7MFS-0910G-ND	8.96	67.94
15	Gold	6 (1.83)	MC	C7MFG-1506M-ND	17.57	133.21
	Tin	6 (1.83)	MC	C7MFS-1506M-ND	16.02	121.46
	Gold	6 (1.83)	GR	C7MFG-1506G-ND	12.62	95.67
	Tin	6 (1.83)	GR	C7MFS-1506G-ND	11.07	83.92
	Gold	10 (3.05)	MC	C7MFG-1510M-ND	22.39	169.69
	Tin	10 (3.05)	MC	C7MFS-1510M-ND	20.84	157.94
	Gold	10 (3.05)	GR	C7MFG-1510G-ND	14.13	107.13
	Tin	10 (3.05)	GR	C7MFS-1510G-ND	12.58	95.38
25	Gold	6 (1.83)	MC	C7MFG-2506M-ND	26.04	197.43
	Tin	6 (1.83)	MC	C7MFS-2506M-ND	23.97	181.68
	Gold	6 (1.83)	GR	C7MFG-2506G-ND	18.22	138.12
	Tin	6 (1.83)	GR	C7MFS-2506G-ND	16.14	122.37
	Gold	10 (3.05)	MC	C7MFG-2510M-ND	34.06	258.23
	Tin	10 (3.05)	MC	C7MFS-2510M-ND	31.99	242.49
	Gold	10 (3.05)	GR	C7MFG-2510G-ND	21.03	159.38
	Tin	10 (3.05)	GR	C7MFS-2510G-ND	18.95	143.64
37	Gold	6 (1.83)	MC	C7MFG-3706M-ND	39.96	302.91
	Tin	6 (1.83)	MC	C7MFS-3706M-ND	36.86	279.41
	Gold	6 (1.83)	GR	C7MFG-3706G-ND	26.32	199.49
	Tin	6 (1.83)	GR	C7MFS-3706G-ND	23.22	175.99
	Gold	10 (3.05)	MC	C7MFG-3710M-ND	52.79	400.20
	Tin	10 (3.05)	MC	C7MFS-3710M-ND	49.69	376.70
	Gold	10 (3.05)	GR	C7MFG-3710G-ND	30.05	227.83
	Tin	10 (3.05)	GR	C7MFS-3710G-ND	26.95	204.33

Also available in the following configuration:
C7PS□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

C□□□□-□□□□□-ND

Style
7□□ (D-Sub)

Contact Finish
G=Gold (10Aμ)
S=Tin (RoHS)
T=Tin-Lead

No. Of Contacts

Length *(Use "Feet" only.)*

Ribbon Cable
M=Multi-color
G=Gray

Digi-Key® Custom Cable Assemblies Available

Call Digi-Key

CW INDUSTRIES

DIP Connectors

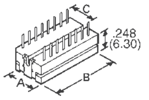

No. of Pins	Dimensions - Inch (mm)		
	A	B	C
14	.42(10.67)	.754(19.15)	.300(7.62)
16	.42(10.67)	.854(21.69)	.300(7.62)
24	.72(18.29)	1.264(32.21)	.600(15.24)
40	.72(18.29)	2.067(52.50)	.600(15.24)

Specifications: • **Contacts:** phosphor bronze • **Insulator Material:** UL 94V 0 retardant glass-filled thermoplastic • **Strain Relief Strap Material:** Tin-plated steel • **Color:** Blue • **Operating Temperature:** -55°C ~ 125°C • **Current Rating:** 1A (maximum) per contact • **Dielectric Withstand Voltage:** Greater than 500Vdc at sea level • **Insulation Resistance:** Greater than $5 \times 10^9\Omega$ • Mates with standard Dip socket with .100" x .300" or .100" x .600" (2.54mm x 7.62mm or 2.54mm x 15.24mm) contact spacing

No. of Cont.	Contact Finish	Digi-Key Part No.	Pricing			
			1	10	100	1,000
DIP Connectors — .175"(4.44mm) Pin Length						
14	Gold	CDP14G-ND◆	1.77	13.40	102.60	741.00
	Tin	CDP14S-ND◆	1.43	10.81	82.80	598.00
16	Gold	CDP16G-ND◆	1.89	14.34	109.80	793.00
	Tin	CDP16S-ND◆	1.52	11.52	88.20	637.00
24	Gold	CDP24G-ND◆	3.10	23.50	180.00	1300.00
	Tin	CDP24S-ND◆	2.51	19.04	145.80	1053.00
	Tin-Lead	CDP24T-ND	2.51	19.04	145.80	1053.00
40	Gold	CDP40G-ND◆	4.46	33.84	259.20	1872.00
	Tin	CDP40S-ND◆	3.60	27.26	208.80	1508.00
Strain Relief Straps For DIP Connectors – RoHS Compliant						
14	—	CDSR14-ND	.19	1.41	10.80	78.00
16	—	CDSR16-ND	.22	1.65	12.60	91.00
24	—	CDSR24-ND	.28	2.12	16.20	117.00
40	—	CDSR40-ND	.31	2.35	18.00	130.00

◆ ***RoHS Compliant***

DIP Cable Assemblies

RoHS COMPLIANT

Single Ended Style 2

* MC = Multi Color,
GR = Gray

Dip connector without strain relief shown.
Pin #1 on connector is connected to 2nd conductor on cable

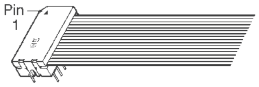

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Pricing	
					1	10
14	Gold	6(15.24)	MC	C2PXG-1406M-ND	2.37	17.96
	Tin	6(15.24)	MC	C2PXS-1406M-ND	2.03	15.37
	Gold	6(15.24)	GR	C2PXG-1406G-ND	1.94	14.74
	Tin	6(15.24)	GR	C2PXS-1406G-ND	1.60	12.15
	Gold	18(45.72)	MC	C2PXG-1418M-ND	3.57	27.08
	Tin	18(45.72)	MC	C2PXS-1418M-ND	3.23	24.49
	Gold	18(45.72)	GR	C2PXG-1418G-ND	2.30	17.42
	Tin	18(45.72)	GR	C2PXS-1418G-ND	1.96	14.83
	Gold	36(91.44)	MC	C2PXG-1436M-ND	5.38	40.76
	Tin	36(91.44)	MC	C2PXS-1436M-ND	5.04	38.17
	Gold	36(91.44)	GR	C2PXG-1436G-ND	2.83	21.44
	Tin	36(91.44)	GR	C2PXS-1436G-ND	2.49	18.86
16	Gold	6(15.24)	MC	C2PXG-1606M-ND	2.53	19.20
	Tin	6(15.24)	MC	C2PXS-1606M-ND	2.16	16.38
	Gold	6(15.24)	GR	C2PXG-1606G-ND	2.09	15.86
	Tin	6(15.24)	GR	C2PXS-1606G-ND	1.72	13.04
	Gold	18(45.72)	MC	C2PXG-1618M-ND	3.82	28.93
	Tin	18(45.72)	MC	C2PXS-1618M-ND	3.44	26.11
	Gold	18(45.72)	GR	C2PXG-1618G-ND	2.50	18.92
	Tin	18(45.72)	GR	C2PXS-1618G-ND	2.12	16.10
	Gold	36(91.44)	MC	C2PXG-1636M-ND	5.74	43.52
	Tin	36(91.44)	MC	C2PXS-1636M-ND	5.37	40.70
	Gold	36(91.44)	GR	C2PXG-1636G-ND	3.10	23.51
	Tin	36(91.44)	GR	C2PXS-1636G-ND	2.73	20.69
24	Gold	6(15.24)	MC	C2PXG-2406M-ND	4.10	31.10
	Tin	6(15.24)	MC	C2PXS-2406M-ND	3.51	26.64
	Gold	6(15.24)	GR	C2PXG-2406G-ND	3.37	25.54
	Tin	6(15.24)	GR	C2PXS-2406G-ND	2.78	21.07
	Gold	18(45.72)	MC	C2PXG-2418M-ND	6.11	46.30
	Tin	18(45.72)	MC	C2PXS-2418M-ND	5.52	41.84
	Gold	18(45.72)	GR	C2PXG-2418G-ND	3.91	29.62
	Tin	18(45.72)	GR	C2PXS-2418G-ND	3.32	25.15
	Gold	36(91.44)	MC	C2PXG-2436M-ND	9.12	69.10
	Tin	36(91.44)	MC	C2PXS-2436M-ND	8.53	64.64
	Gold	36(91.44)	GR	C2PXG-2436G-ND	4.71	35.74
	Tin	36(91.44)	GR	C2PXS-2436G-ND	4.13	31.27
40	Gold	6(15.24)	MC	C2PXG-4006M-ND	6.07	46.00
	Tin	6(15.24)	MC	C2PXS-4006M-ND	5.20	39.42
	Gold	6(15.24)	GR	C2PXG-4006G-ND	5.00	37.88
	Tin	6(15.24)	GR	C2PXS-4006G-ND	4.13	31.30
	Gold	18(45.72)	MC	C2PXG-4018M-ND	9.28	70.32
	Tin	18(45.72)	MC	C2PXS-4018M-ND	8.41	63.74
	Gold	18(45.72)	GR	C2PXG-4018G-ND	6.06	45.96
	Tin	18(45.72)	GR	C2PXS-4018G-ND	5.19	39.38
	Gold	36(91.44)	MC	C2PXG-4036M-ND	14.09	106.81
	Tin	36(91.44)	MC	C2PXS-4036M-ND	13.22	100.23
	Gold	36(91.44)	GR	C2PXG-4036G-ND	7.66	58.08
	Tin	36(91.44)	GR	C2PXS-4036G-ND	6.79	51.50

Also available in the following version:
C2RX□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

Single Ended Style 4

* MC = Multi Color,
GR = Gray

Dip connector without strain relief shown.
Pin #1 on connector is connected to 2nd conductor on cable

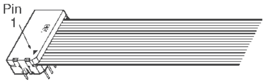

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Pricing	
					1	10
14	Gold	6(15.24)	MC	C4PXG-1406M-ND	2.37	17.96
	Tin	6(15.24)	MC	C4PXS-1406M-ND	2.03	15.37
	Gold	6(15.24)	GR	C4PXG-1406G-ND	1.94	14.74
	Tin	6(15.24)	GR	C4PXS-1406G-ND	1.60	12.15
	Gold	18(45.72)	MC	C4PXG-1418M-ND	3.57	27.08
	Tin	18(45.72)	MC	C4PXS-1418M-ND	3.23	24.49
	Gold	18(45.72)	GR	C4PXG-1418G-ND	2.30	17.42
	Tin	18(45.72)	GR	C4PXS-1418G-ND	1.96	14.83
	Gold	36(91.44)	MC	C4PXG-1436M-ND	5.38	40.76
	Tin	36(91.44)	MC	C4PXS-1436M-ND	5.04	38.17
	Gold	36(91.44)	GR	C4PXG-1436G-ND	2.83	21.44
	Tin	36(91.44)	GR	C4PXS-1436G-ND	2.49	18.86
16	Gold	6(15.24)	MC	C4PXG-1606M-ND	2.53	19.20
	Tin	6(15.24)	MC	C4PXS-1606M-ND	2.16	16.38
	Gold	6(15.24)	GR	C4PXG-1606G-ND	2.09	15.86
	Tin	6(15.24)	GR	C4PXS-1606G-ND	1.72	13.04
	Gold	18(45.72)	MC	C4PXG-1618M-ND	3.82	28.93
	Tin	18(45.72)	MC	C4PXS-1618M-ND	3.44	26.11
	Gold	18(45.72)	GR	C4PXG-1618G-ND	2.50	18.92
	Tin	18(45.72)	GR	C4PXS-1618G-ND	2.12	16.10
	Gold	36(91.44)	MC	C4PXG-1636M-ND	5.74	43.52
	Tin	36(91.44)	MC	C4PXS-1636M-ND	5.37	40.70
	Gold	36(91.44)	GR	C4PXG-1636G-ND	3.10	23.51
	Tin	36(91.44)	GR	C4PXS-1636G-ND	2.73	20.69
24	Gold	6(15.24)	MC	C4PXG-2406M-ND	4.10	31.10
	Tin	6(15.24)	MC	C4PXS-2406M-ND	3.51	26.64
	Gold	6(15.24)	GR	C4PXG-2406G-ND	3.37	25.54
	Tin	6(15.24)	GR	C4PXS-2406G-ND	2.78	21.07
	Gold	18(45.72)	MC	C4PXG-2418M-ND	6.11	46.30
	Tin	18(45.72)	MC	C4PXS-2418M-ND	5.52	41.84
	Gold	18(45.72)	GR	C4PXG-2418G-ND	3.91	29.62
	Tin	18(45.72)	GR	C4PXS-2418G-ND	3.32	25.15
	Gold	36(91.44)	MC	C4PXG-2436M-ND	9.12	69.10
	Tin	36(91.44)	MC	C4PXS-2436M-ND	8.53	64.64
	Gold	36(91.44)	GR	C4PXG-2436G-ND	4.71	35.74
	Tin	36(91.44)	GR	C4PXS-2436G-ND	4.13	31.27
40	Gold	6(15.24)	MC	C4PXG-4006M-ND	6.07	46.00
	Tin	6(15.24)	MC	C4PXS-4006M-ND	5.20	39.42
	Gold	6(15.24)	GR	C4PXG-4006G-ND	5.00	37.88
	Tin	6(15.24)	GR	C4PXS-4006G-ND	4.13	31.30
	Gold	18(45.72)	MC	C4PXG-4018M-ND	9.28	70.32
	Tin	18(45.72)	MC	C4PXS-4018M-ND	8.41	63.74
	Gold	18(45.72)	GR	C4PXG-4018G-ND	6.06	45.96
	Tin	18(45.72)	GR	C4PXS-4018G-ND	5.19	39.38
	Gold	36(91.44)	MC	C4PXG-4036M-ND	14.09	106.81
	Tin	36(91.44)	MC	C4PXS-4036M-ND	13.22	100.23
	Gold	36(91.44)	GR	C4PXG-4036G-ND	7.66	58.08
	Tin	36(91.44)	GR	C4PXS-4036G-ND	6.79	51.50

Also available in the following version:
C4RX□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

Double Ended Style 6

* MC = Multi Color,
GR = Gray

Dip connector without strain relief shown.
Pin #1 on connector is connected to 2nd conductor on cable

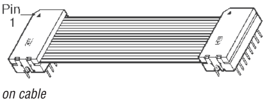

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Pricing	
					1	10
14	Gold	6(15.24)	MC	C6PPG-1406M-ND	4.14	31.35
	Tin	6(15.24)	MC	C6PPS-1406M-ND	3.45	26.18
	Gold	6(15.24)	GR	C6PPG-1406G-ND	3.71	28.13
	Tin	6(15.24)	GR	C6PPS-1406G-ND	3.03	22.96
	Gold	18(45.72)	MC	C6PPG-1418M-ND	5.34	40.47
	Tin	18(45.72)	MC	C6PPS-1418M-ND	4.66	35.30
	Gold	18(45.72)	GR	C6PPG-1418G-ND	4.06	30.81
	Tin	18(45.72)	GR	C6PPS-1418G-ND	3.38	25.64
	Gold	36(91.44)	MC	C6PPG-1436M-ND	7.14	54.15
	Tin	36(91.44)	MC	C6PPS-1436M-ND	6.46	48.98
	Gold	36(91.44)	GR	C6PPG-1436G-ND	4.60	34.84
	Tin	36(91.44)	GR	C6PPS-1436G-ND	3.91	29.67
16	Gold	6(15.24)	MC	C6PPG-1606M-ND	4.42	33.53
	Tin	6(15.24)	MC	C6PPS-1606M-ND	3.68	27.89
	Gold	6(15.24)	GR	C6PPG-1606G-ND	3.98	30.20
	Tin	6(15.24)	GR	C6PPS-1606G-ND	3.24	24.56
	Gold	18(45.72)	MC	C6PPG-1618M-ND	5.71	43.26
	Tin	18(45.72)	MC	C6PPS-1618M-ND	4.96	37.62
	Gold	18(45.72)	GR	C6PPG-1618G-ND	4.39	33.26
	Tin	18(45.72)	GR	C6PPS-1618G-ND	3.64	27.62
	Gold	36(91.44)	MC	C6PPG-1636M-ND	7.63	57.86
	Tin	36(91.44)	MC	C6PPS-1636M-ND	6.89	52.22
	Gold	36(91.44)	GR	C6PPG-1636G-ND	4.99	37.85
	Tin	36(91.44)	GR	C6PPS-1636G-ND	4.25	32.21
24	Gold	6(15.24)	MC	C6PPG-2406M-ND	7.20	54.60
	Tin	6(15.24)	MC	C6PPS-2406M-ND	6.02	45.67
	Gold	6(15.24)	GR	C6PPG-2406G-ND	6.47	49.04
	Tin	6(15.24)	GR	C6PPS-2406G-ND	5.29	40.11
	Gold	18(45.72)	MC	C6PPG-2418M-ND	9.21	69.80
	Tin	18(45.72)	MC	C6PPS-2418M-ND	8.03	60.87
	Gold	18(45.72)	GR	C6PPG-2418G-ND	7.01	53.12
	Tin	18(45.72)	GR	C6PPS-2418G-ND	5.83	44.19
	Gold	36(91.44)	MC	C6PPG-2436M-ND	12.22	92.60
	Tin	36(91.44)	MC	C6PPS-2436M-ND	11.04	83.67
	Gold	36(91.44)	GR	C6PPG-2436G-ND	7.81	59.24
	Tin	36(91.44)	GR	C6PPS-2436G-ND	6.64	50.31
40	Gold	6(15.24)	MC	C6PPG-4006M-ND	10.53	79.84
	Tin	6(15.24)	MC	C6PPS-4006M-ND	8.80	66.68
	Gold	6(15.24)	GR	C6PPG-4006G-ND	9.46	71.72
	Tin	6(15.24)	GR	C6PPS-4006G-ND	7.72	58.56
	Gold	18(45.72)	MC	C6PPG-4018M-ND	13.74	104.16
	Tin	18(45.72)	MC	C6PPS-4018M-ND	12.00	91.00
	Gold	18(45.72)	GR	C6PPG-4018G-ND	10.53	79.80
	Tin	18(45.72)	GR	C6PPS-4018G-ND	8.79	66.64
	Gold	36(91.44)	MC	C6PPG-4036M-ND	18.55	140.65
	Tin	36(91.44)	MC	C6PPS-4036M-ND	16.82	127.49
	Gold	36(91.44)	GR	C6PPG-4036G-ND	12.13	91.92
	Tin	36(91.44)	GR	C6PPS-4036G-ND	10.39	78.76

Also available in the following version:
C6RR□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

Double Ended Style 8

* MC = Multi Color,
GR = Gray

Dip connector without strain relief shown.
Pin #1 on connector is connected to 2nd conductor on cable

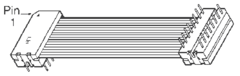

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Pricing	
					1	10
14	Gold	6(15.24)	MC	C8PPG-1406M-ND	4.14	31.35
	Tin	6(15.24)	MC	C8PPS-1406M-ND	3.45	26.18
	Gold	6(15.24)	GR	C8PPG-1406G-ND	3.71	28.13
	Tin	6(15.24)	GR	C8PPS-1406G-ND	3.03	22.96
	Gold	18(45.72)	MC	C8PPG-1418M-ND	5.34	40.47
	Tin	18(45.72)	MC	C8PPS-1418M-ND	4.66	35.30
	Gold	18(45.72)	GR	C8PPG-1418G-ND	4.06	30.81
	Tin	18(45.72)	GR	C8PPS-1418G-ND	3.38	25.64
	Gold	36(91.44)	MC	C8PPG-1436M-ND	7.14	54.15
	Tin	36(91.44)	MC	C8PPS-1436M-ND	6.46	48.98
	Gold	36(91.44)	GR	C8PPG-1436G-ND	4.60	34.84
	Tin	36(91.44)	GR	C8PPS-1436G-ND	3.91	29.67
16	Gold	6(15.24)	MC	C8PPG-1606M-ND	4.42	33.53
	Tin	6(15.24)	MC	C8PPS-1606M-ND	3.68	27.89
	Gold	6(15.24)	GR	C8PPG-1606G-ND	3.98	30.20
	Tin	6(15.24)	GR	C8PPS-1606G-ND	3.24	24.56
	Gold	18(45.72)	MC	C8PPG-1618M-ND	5.71	43.26
	Tin	18(45.72)	MC	C8PPS-1618M-ND	4.96	37.62
	Gold	18(45.72)	GR	C8PPG-1618G-ND	4.39	33.26
	Tin	18(45.72)	GR	C8PPS-1618G-ND	3.64	27.62
	Gold	36(91.44)	MC	C8PPG-1636M-ND	7.63	57.86
	Tin	36(91.44)	MC	C8PPS-1636M-ND	6.89	52.22
	Gold	36(91.44)	GR	C8PPG-1636G-ND	4.99	37.85
	Tin	36(91.44)	GR	C8PPS-1636G-ND	4.25	32.21
24	Gold	6(15.24)	MC	C8PPG-2406M-ND	7.20	54.60
	Tin	6(15.24)	MC	C8PPS-2406M-ND	6.02	45.67
	Gold	6(15.24)	GR	C8PPG-2406G-ND	6.47	49.04
	Tin	6(15.24)	GR	C8PPS-2406G-ND	5.29	40.11
	Gold	18(45.72)	MC	C8PPG-2418M-ND	9.21	69.80
	Tin	18(45.72)	MC	C8PPS-2418M-ND	8.03	60.87
	Gold	18(45.72)	GR	C8PPG-2418G-ND	7.01	53.12
	Tin	18(45.72)	GR	C8PPS-2418G-ND	5.83	44.19
	Gold	36(91.44)	MC	C8PPG-2436M-ND	12.22	92.60
	Tin	36(91.44)	MC	C8PPS-2436M-ND	11.04	83.67
	Gold	36(91.44)	GR	C8PPG-2436G-ND	7.81	59.24
	Tin	36(91.44)	GR	C8PPS-2436G-ND	6.64	50.31
40	Gold	6(15.24)	MC	C8PPG-4006M-ND	10.53	79.84
	Tin	6(15.24)	MC	C8PPS-4006M-ND	8.80	66.68
	Gold	6(15.24)	GR	C8PPG-4006G-ND	9.46	71.72
	Tin	6(15.24)	GR	C8PPS-4006G-ND	7.72	58.56
	Gold	18(45.72)	MC	C8PPG-4018M-ND	13.74	104.16
	Tin	18(45.72)	MC	C8PPS-4018M-ND	12.00	91.00
	Gold	18(45.72)	GR	C8PPG-4018G-ND	10.53	79.80
	Tin	18(45.72)	GR	C8PPS-4018G-ND	8.79	66.64
	Gold	36(91.44)	MC	C8PPG-4036M-ND	18.55	140.65
	Tin	36(91.44)	MC	C8PPS-4036M-ND	16.82	127.49
	Gold	36(91.44)	GR	C8PPG-4036G-ND	12.13	91.92
	Tin	36(91.44)	GR	C8PPS-4036G-ND	10.39	78.76

Also available in the following version:
C8RR□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

(Continued)

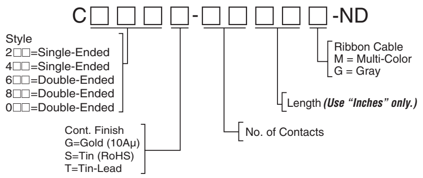

Digi-Key® Custom Cable Assemblies Available

Call Digi-Key

CW INDUSTRIES

Dip Cable Assemblies *(Cont.)*

Double Ended Style 0

* MC = Multi Color,
GR = Gray

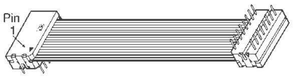

Dip connector without strain relief shown.
Pin #1 on connector is connected to 2nd conductor on cable

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Pricing 1	Pricing 10
14	Gold	6(15.24)	MC	C0PPG-1406M-ND	4.14	31.35
	Tin	6(15.24)	MC	C0PPS-1406M-ND	3.45	26.18
	Gold	6(15.24)	GR	C0PPG-1406G-ND	3.71	28.13
	Tin	6(15.24)	GR	C0PPS-1406G-ND	3.03	22.96
	Gold	18(45.72)	MC	C0PPG-1418M-ND	5.34	40.47
	Tin	18(45.72)	MC	C0PPS-1418M-ND	4.66	35.30
	Gold	18(45.72)	GR	C0PPG-1418G-ND	4.06	30.81
	Tin	18(45.72)	GR	C0PPS-1418G-ND	3.38	25.64
	Gold	36(91.44)	MC	C0PPG-1436M-ND	7.14	54.15
	Tin	36(91.44)	MC	C0PPS-1436M-ND	6.46	48.98
	Gold	36(91.44)	GR	C0PPG-1436G-ND	4.60	34.84
	Tin	36(91.44)	GR	C0PPS-1436G-ND	3.91	29.67
16	Gold	6(15.24)	MC	C0PPG-1606M-ND	4.42	33.53
	Tin	6(15.24)	MC	C0PPS-1606M-ND	3.68	27.89
	Gold	6(15.24)	GR	C0PPG-1606G-ND	3.98	30.20
	Tin	6(15.24)	GR	C0PPS-1606G-ND	3.24	24.56
	Gold	18(45.72)	MC	C0PPG-1618M-ND	5.71	43.26
	Tin	18(45.72)	MC	C0PPS-1618M-ND	4.96	37.62
	Gold	18(45.72)	GR	C0PPG-1618G-ND	4.39	33.26
	Tin	18(45.72)	GR	C0PPS-1618G-ND	3.64	27.62
	Gold	36(91.44)	MC	C0PPG-1636M-ND	7.63	57.86
	Tin	36(91.44)	MC	C0PPS-1636M-ND	6.89	52.22
	Gold	36(91.44)	GR	C0PPG-1636G-ND	4.99	37.85
	Tin	36(91.44)	GR	C0PPS-1636G-ND	4.25	32.21
24	Gold	6(15.24)	MC	C0PPG-2406M-ND	7.20	54.60
	Tin	6(15.24)	MC	C0PPS-2406M-ND	6.02	45.67
	Gold	6(15.24)	GR	C0PPG-2406G-ND	6.47	49.04
	Tin	6(15.24)	GR	C0PPS-2406G-ND	5.29	40.11
	Gold	18(45.72)	MC	C0PPG-2418M-ND	9.21	69.80
	Tin	18(45.72)	MC	C0PPS-2418M-ND	8.03	60.87
	Gold	18(45.72)	GR	C0PPG-2418G-ND	7.01	53.12
	Tin	18(45.72)	GR	C0PPS-2418G-ND	5.83	44.19
	Gold	36(91.44)	MC	C0PPG-2436M-ND	12.22	92.60
	Tin	36(91.44)	MC	C0PPS-2436M-ND	11.04	83.67
	Gold	36(91.44)	GR	C0PPG-2436G-ND	7.81	59.24
	Tin	36(91.44)	GR	C0PPS-2436G-ND	6.64	50.31
40	Gold	6(15.24)	MC	C0PPG-4006M-ND	10.53	79.84
	Tin	6(15.24)	MC	C0PPS-4006M-ND	8.80	66.68
	Gold	6(15.24)	GR	C0PPG-4006G-ND	9.46	71.72
	Tin	6(15.24)	GR	C0PPS-4006G-ND	7.72	58.56
	Gold	18(45.72)	MC	C0PPG-4018M-ND	13.74	104.16
	Tin	18(45.72)	MC	C0PPS-4018M-ND	12.00	91.00
	Gold	18(45.72)	GR	C0PPG-4018G-ND	10.53	79.80
	Tin	18(45.72)	GR	C0PPS-4018G-ND	8.79	66.64
	Gold	36(91.44)	MC	C0PPG-4036M-ND	18.55	140.65
	Tin	36(91.44)	MC	C0PPS-4036M-ND	16.82	127.49
	Gold	36(91.44)	GR	C0PPG-4036G-ND	12.13	91.92
	Tin	36(91.44)	GR	C0PPS-4036G-ND	10.39	78.76

Also available in the following version:
C0RR☐-☐☐☐☐☐-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

Socket Connectors

Socket Connector

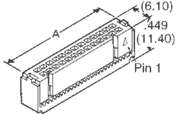

Socket Connector with Central Polarizing Key

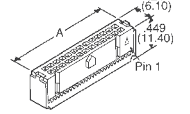

Socket Connector with Strain Relief

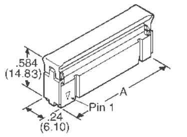

Socket Connector with Strain Relief and Central Polarizing Key

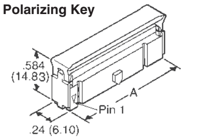

SPECIFICATIONS: • **Contacts:** Phosphor bronze • **Contact Plating:** 10µ inch gold (in mating area) over 50µ inch nickel or 100µ inch tin-lead • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Strain Relief Strap Material:** Insulated stainless steel • **Color:** Blue • **Operating Temperature:** -55°C ~ 125°C • **Current Rating:** 1A (max.) per contact • **Dielectric Withstand Voltage:** Greater than 500VDC at sea level • **Insulation Resistance:** Greater than 5 x $10^9\Omega$ • **Withdrawal:** force 56.7g – 226.79g/contact, typical • Cover pull-off force 226.79g/contact, min. (force along contacts primary axis)

No. of Cont.	Cont. Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
Socket Connector						
10	Gold	.677(17.20)	CSC10G-ND◆	1.24	.94	.72
	Tin	.677(17.20)	CSC10S-ND◆	1.05	.80	.62
14	Gold	.877(22.28)	CSC14G-ND◆	1.74	1.32	1.01
	Tin	.877(22.28)	CSC14S-ND◆	1.49	1.13	.87
16	Gold	.977(24.82)	CSC16G-ND◆	2.02	1.53	1.17
	Tin	.977(24.82)	CSC16S-ND◆	1.71	1.30	.99
20	Gold	1.177(29.90)	CSC20G-ND◆	2.11	1.60	1.23
	Tin	1.177(29.90)	CSC20S-ND◆	1.80	1.37	1.05
	Tin-Lead	1.177(29.90)	CSC20T-ND	1.80	1.37	1.05
26	Gold	1.477(37.52)	CSC26G-ND◆	2.51	1.91	1.46
	Tin	1.477(37.52)	CSC26S-ND◆	2.14	1.63	1.25
34	Gold	1.877(47.68)	CSC34G-ND◆	3.10	2.35	1.80
	Tin	1.877(47.68)	CSC34S-ND◆	2.64	2.00	1.53
	Tin-Lead	1.877(47.68)	CSC34T-ND	2.64	2.00	1.53
40	Gold	2.177(55.30)	CSC40G-ND◆	3.41	2.59	1.98
	Tin	2.177(55.30)	CSC40S-ND◆	2.88	2.19	1.68
50	Gold	2.677(68.00)	CSC50G-ND◆	4.09	3.11	2.38
	Tin	2.677(68.00)	CSC50S-ND◆	3.47	2.64	2.02
60	Gold	3.177(80.70)	CSC60G-ND◆	4.99	3.79	2.90
	Tin	3.177(80.70)	CSC60S-ND◆	4.25	3.22	2.47
	Tin-Lead	3.177(80.70)	CSC60T-ND	4.25	3.22	2.47
Socket Connector With Strain Relief						
10	Gold	.677(17.20)	CSR10G-ND◆	1.52	1.16	.89
	Tin	.677(17.20)	CSR10S-ND◆	1.30	.99	.76
14	Gold	.877(22.28)	CSR14G-ND◆	2.02	1.53	1.17
	Tin	.877(22.28)	CSR14S-ND◆	1.71	1.30	.99
	Tin-Lead	.877(22.28)	CSR14T-ND	1.71	1.30	.99
16	Gold	.977(24.82)	CSR16G-ND◆	2.23	1.70	1.30
	Tin	.977(24.82)	CSR16S-ND◆	1.89	1.44	1.10
	Tin-Lead	.977(24.82)	CSR16T-ND	1.89	1.44	1.10
20	Gold	1.177(29.90)	CSR20G-ND◆	2.36	1.79	1.37
	Tin	1.177(29.90)	CSR20S-ND◆	2.02	1.53	1.17
26	Gold	1.477(37.52)	CSR26G-ND◆	2.73	2.07	1.59
	Tin	1.477(37.52)	CSR26S-ND◆	2.33	1.77	1.35
	Tin-Lead	1.477(37.52)	CSR26T-ND◆	2.33	1.77	1.35
34	Gold	1.877(47.68)	CSR34G-ND◆	3.35	2.54	1.95
	Tin	1.877(47.68)	CSR34S-ND◆	2.85	2.17	1.66
40	Gold	2.177(55.30)	CSR40G-ND◆	3.63	2.75	2.11
	Tin	2.177(55.30)	CSR40S-ND◆	3.07	2.33	1.79
	Tin-Lead	2.177(55.30)	CSR40T-ND	3.07	2.33	1.79
50	Gold	2.677(68.00)	CSR50G-ND◆	4.31	3.27	2.51
	Tin	2.677(68.00)	CSR50S-ND◆	3.66	2.78	2.13
	Tin-Lead	2.677(68.00)	CSR50T-ND	3.66	2.78	2.13
60	Gold	3.177(80.70)	CSR60G-ND◆	5.24	3.98	3.05
	Tin	3.177(80.70)	CSR60S-ND◆	4.46	3.39	2.60
	Tin-Lead	3.177(80.70)	CSR60T-ND	4.46	3.39	2.60
Socket Connector With Polarizing Key						
10	Gold	.677(17.20)	CKC10G-ND◆	1.24	.94	.72
	Tin	.677(17.20)	CKC10S-ND◆	1.05	.80	.62
14	Gold	.877(22.28)	CKC14G-ND◆	1.74	1.32	1.01
	Tin	.877(22.28)	CKC14S-ND◆	1.49	1.13	.87
	Tin-Lead	.877(22.28)	CKC14T-ND	1.49	1.13	.87
16	Gold	.977(24.82)	CKC16G-ND◆	2.02	1.53	1.17
	Tin	.977(24.82)	CKC16S-ND◆	1.71	1.30	.99
20	Gold	1.177(29.90)	CKC20G-ND◆	2.11	1.60	1.23
	Tin	1.177(29.90)	CKC20S-ND◆	1.80	1.37	1.05
26	Gold	1.477(37.52)	CKC26G-ND◆	2.51	1.91	1.46
	Tin	1.477(37.52)	CKC26S-ND◆	2.14	1.63	1.25
34	Gold	1.877(47.68)	CKC34G-ND◆	3.10	2.35	1.80
	Tin	1.877(47.68)	CKC34S-ND◆	2.64	2.00	1.53
	Tin-Lead	1.877(47.68)	CKC34T-ND	2.64	2.00	1.53
40	Gold	2.177(55.30)	CKC40G-ND◆	3.41	2.59	1.98
	Tin	2.177(55.30)	CKC40S-ND◆	2.88	2.19	1.68
	Tin-Lead	2.177(55.30)	CKC40T-ND	2.88	2.19	1.68
50	Gold	2.677(68.00)	CKC50G-ND◆	4.09	3.11	2.38
	Tin	2.677(68.00)	CKC50S-ND◆	3.47	2.64	2.02
60	Gold	3.177(80.70)	CKC60G-ND◆	4.99	3.79	2.90
	Tin	3.177(80.70)	CKC60S-ND◆	4.25	3.22	2.47
Socket Connector w/Polarizing Key and Strain Relief						
10	Gold	.677(17.20)	CKR10G-ND◆	1.52	1.16	.89
	Tin	.677(17.20)	CKR10S-ND◆	1.30	.99	.76
14	Gold	.877(22.28)	CKR14G-ND◆	2.02	1.53	1.17
	Tin	.877(22.28)	CKR14S-ND◆	1.71	1.30	.99
	Tin-Lead	.877(22.28)	CKR14T-ND	1.71	1.30	.99
16	Gold	.977(24.82)	CKR16G-ND◆	2.23	1.70	1.30
	Tin	.977(24.82)	CKR16S-ND◆	1.89	1.44	1.10
	Tin-Lead	.977(24.82)	CKR16T-ND	1.89	1.44	1.10
20	Gold	1.177(29.90)	CKR20G-ND◆	2.36	1.79	1.37
	Tin	1.177(29.90)	CKR20S-ND◆	2.02	1.53	1.17
	Tin-Lead	1.177(29.90)	CKR20T-ND	2.02	1.53	1.17
26	Gold	1.477(37.52)	CKR26G-ND◆	2.73	2.07	1.59
	Tin	1.477(37.52)	CKR26S-ND◆	2.33	1.77	1.35
	Tin-Lead	1.477(37.52)	CKR26T-ND	2.33	1.77	1.35
34	Gold	1.877(47.68)	CKR34G-ND◆	3.35	2.54	1.95
	Tin	1.877(47.68)	CKR34S-ND◆	2.85	2.17	1.66
	Tin-Lead	1.877(47.68)	CKR34T-ND	2.85	2.17	1.66
40	Gold	2.177(55.30)	CKR40G-ND◆	3.63	2.75	2.11
	Tin	2.177(55.30)	CKR40S-ND◆	3.07	2.33	1.79
50	Gold	2.677(68.00)	CKR50G-ND◆	4.31	3.27	2.51
	Tin	2.677(68.00)	CKR50S-ND◆	3.66	2.78	2.13
	Tin-Lead	2.677(68.00)	CKR50T-ND	3.66	2.78	2.13
60	Gold	3.177(80.70)	CKR60G-ND◆	5.24	3.98	3.05
	Tin	3.177(80.70)	CKR60S-ND◆	4.46	3.39	2.60
	Tin-Lead	3.177(80.70)	CKR60T-ND	4.46	3.39	2.60

PK-1-ND Polarizing Key……………………**$.25/2** **$.94/10** **$7.20/100**

◆ ***RoHS Compliant***

PCB Connectors

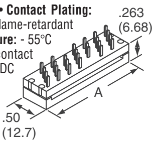

SPECIFICATIONS: • **Contacts:** Phosphor bronze • **Contact Plating:** 100µ in tin-lead • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Color:** Blue • **Operating Temperature:** - 55°C ~ 125°C • **Current Rating:** 1A (maximum) per contact • **Dielectric Withstand Voltage:** Greater than 500VDC at sea level • **Insulation Resistance:** Greater than 5 x $10^9\Omega$. Cover pull-off force, without strain relief, 5.60kg. minimum (force along contacts primary axis)

No. of Cont.	Cont. Finish	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
10	Tin	.700(17.78)	CPC10S-ND◆	1.36	1.04	.80
•20	Tin	1.200(30.48)	CPC20S-ND◆	1.58	1.20	.92
26	Tin	1.500(38.10)	CPC26S-ND◆	2.05	1.56	1.19
34	Tin	1.900(48.26)	CPC34S-ND◆	2.51	1.91	1.46
•40	Tin	2.200(55.88)	CPC40S-ND◆	2.85	2.17	1.66
	Tin-Lead	2.200(55.88)	CPC40T-ND	2.85	2.17	1.66
50	Tin	2.700(68.58)	CPC50S-ND◆	3.57	2.71	2.07
•60	Tin	3.200(81.28)	CPC60S-ND◆	4.09	3.11	2.38
	Tin-Lead	3.200(81.28)	CPC60T-ND	4.09	3.11	2.38

• Full row version. ("Special Center" version shown above.)

◆ ***RoHS Compliant***

Card Edge Connectors

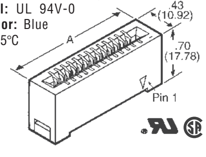

SPECIFICATIONS: • **Contacts:** Phosphor bronze • **Contact Plating:** 10µ inch gold (in mating area) over 50µ inch nickel or 100µ inch tin-lead • **Insulator Material:** UL 94V-0 flame-retardant thermoplastic • **Color:** Blue • **Operational Temperature:** -55°C ~ 125°C • **Current Rating:** 1A (max.) per contact • **Dielectric Withstand Voltage:** Greater than 500Vdc at sea level • **Insulation Resistance:** Greater than 5 x $10^9\Omega$ • Cover pull-off force 226.79g./contact min. (force along contacts primary axis)

No. of Cont.	Cont. Finish	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
10	Gold	.976(24.79)	CCE10G-ND◆	2.67	2.03	1.55
	Tin	.976(24.79)	CCE10S-ND◆	2.26	1.72	1.32
	Tin-Lead	.976(24.79)	CCE10T-ND	2.26	1.72	1.32
20	Gold	1.476(37.49)	CCE20G-ND◆	3.57	2.71	2.07
	Tin	1.476(37.49)	CCE20S-ND◆	3.04	2.31	1.77
	Tin-Lead	1.476(37.49)	CCE20T-ND	3.04	2.31	1.77
26	Gold	1.776(45.11)	CCE26G-ND◆	4.25	3.22	2.47
	Tin	1.776(45.11)	CCE26S-ND◆	3.60	2.73	2.09
34	Gold	2.176(55.27)	CCE34G-ND◆	5.27	4.00	3.06
	Tin	2.176(55.27)	CCE34S-ND◆	4.50	3.41	2.61
	Tin-Lead	2.176(55.27)	CCE34T-ND	4.50	3.41	2.61
40	Gold	2.476(62.89)	CCE40G-ND◆	6.17	4.68	3.59
	Tin	2.476(62.89)	CCE40S-ND◆	5.24	3.98	3.05
	Tin-Lead	2.476(62.89)	CCE40T-ND	5.24	3.98	3.05
50	Gold	2.976(75.59)	CCE50G-ND◆	6.94	5.27	4.04
	Tin	2.976(75.59)	CCE50S-ND◆	5.89	4.47	3.42
	Tin-Lead	2.976(75.59)	CCE50T-ND	5.89	4.47	3.42

PK-2-ND Polarizing Key……………………… **$.25/2** **$.94/10** **$7.20/100**

◆ ***RoHS Compliant***

Termination Jumpers

Socket Connector — Single Ended

* MC = Multi Color,
GR = Gray

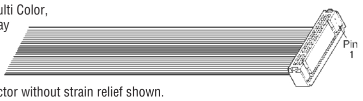

Dip connector without strain relief shown.

No. of Cont.	Cont. Finish	Length Inch(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Gold	36(91.44)	MC	C1AXG-1036M-ND	3.65	2.77
	Tin	36(91.44)	MC	C1AXS-1036M-ND	3.46	2.63
	Gold	36(91.44)	GR	C1AXG-1036G-ND	2.00	1.52
	Tin	36(91.44)	GR	C1AXS-1036G-ND	1.81	1.38

(Continued)

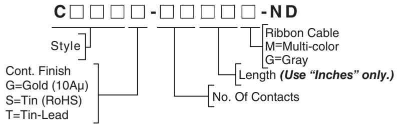

C☐☐☐☐-☐☐☐☐☐-ND

Style
Cont. Finish
G=Gold (10Aµ)
S=Tin (RoHS)
T=Tin-Lead
No. Of Contacts
Length ***(Use "Inches" only.)***
Ribbon Cable
M=Multi-color
G=Gray

Digi-Key® Custom Cable Assemblies Available

Call Digi-Key

CW INDUSTRIES

Termination Jumpers

RoHS COMPLIANT

Socket Connector — Single Ended *(Cont.)*

No. of Cont.	Cont. Finish	Length Inch(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
14	Gold	36(91.44)	MC	C1AXG-1436M-ND	5.35	4.06
	Tin	36(91.44)	MC	C1AXS-1436M-ND	5.10	3.87
	Gold	36(91.44)	GR	C1AXG-1436G-ND	2.80	2.13
	Tin	36(91.44)	GR	C1AXS-1436G-ND	2.55	1.94
16	Gold	36(91.44)	MC	C1AXG-1636M-ND	5.87	4.45
	Tin	36(91.44)	MC	C1AXS-1636M-ND	5.56	4.22
	Gold	36(91.44)	GR	C1AXG-1636G-ND	3.23	2.45
	Tin	36(91.44)	GR	C1AXS-1636G-ND	2.92	2.21
20	Gold	36(91.44)	MC	C1AXG-2036M-ND	6.92	5.25
	Tin	36(91.44)	MC	C1AXS-2036M-ND	6.61	5.02
	Gold	36(91.44)	GR	C1AXG-2036G-ND	3.82	2.90
	Tin	36(91.44)	GR	C1AXS-2036G-ND	3.51	2.67
26	Gold	36(91.44)	MC	C1AXG-2636M-ND	8.77	6.65
	Tin	36(91.44)	MC	C1AXS-2636M-ND	8.40	6.37
	Gold	36(91.44)	GR	C1AXG-2636G-ND	4.63	3.51
	Tin	36(91.44)	GR	C1AXS-2636G-ND	4.26	3.23
34	Gold	36(91.44)	MC	C1AXG-3436M-ND	11.28	8.56
	Tin	36(91.44)	MC	C1AXS-3436M-ND	10.82	8.20
	Gold	36(91.44)	GR	C1AXG-3436G-ND	5.39	4.09
	Tin	36(91.44)	GR	C1AXS-3436G-ND	4.92	3.74
40	Gold	36(91.44)	MC	C1AXG-4036M-ND	13.04	9.89
	Tin	36(91.44)	MC	C1AXS-4036M-ND	12.51	9.49
	Gold	36(91.44)	GR	C1AXG-4036G-ND	6.61	5.01
	Tin	36(91.44)	GR	C1AXS-4036G-ND	6.08	4.61
50	Gold	36(91.44)	MC	C1AXG-5036M-ND	16.12	12.23
	Tin	36(91.44)	MC	C1AXS-5036M-ND	15.50	11.76
	Gold	36(91.44)	GR	C1AXG-5036G-ND	7.45	5.66
	Tin	36(91.44)	GR	C1AXS-5036G-ND	6.83	5.19
60	Gold	36(91.44)	MC	C1AXG-6036M-ND	19.43	14.73
	Tin	36(91.44)	MC	C1AXS-6036M-ND	18.68	14.17
	Gold	36(91.44)	GR	C1AXG-6036G-ND	9.54	7.24
	Tin	36(91.44)	GR	C1AXS-6036G-ND	8.80	6.68

Also available in the following versions:
C1BX□-□□□□□-ND – Socket Connector with Strain Relief.
C1CX□-□□□□□-ND – Socket Connector with Central Polarizing Key.
C1DX□-□□□□□-ND – Socket Connector with Strain Relief and Central Polarizing Key.

Call for complete part number and pricing!

PCB Connector – Single Ended

* MC = Multi-Color,
GR = Gray

PCB connector without strain relief shown.

No. of Cont.	Cont. Finish	Length Inch(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Tin	36(91.44)	MC	C1PXS-1036M-ND	3.77	2.86
	Tin	36(91.44)	GR	C1PXS-1036G-ND	2.12	1.61
20	Tin	36(91.44)	MC	C1PXS-2036M-ND	6.39	4.85
	Tin	36(91.44)	GR	C1PXS-2036G-ND	3.30	2.50
26	Tin	36(91.44)	MC	C1PXS-2636M-ND	8.30	6.30
	Tin	36(91.44)	GR	C1PXS-2636G-ND	4.16	3.16
34	Tin	36(91.44)	MC	C1PXS-3436M-ND	10.69	8.11
	Tin	36(91.44)	GR	C1PXS-3436G-ND	4.80	3.64
40	Tin	36(91.44)	MC	C1PXS-4036M-ND	12.48	9.46
	Tin	36(91.44)	GR	C1PXS-4036G-ND	6.05	4.59
50	Tin	36(91.44)	MC	C1PXS-5036M-ND	15.60	11.83
	Tin	36(91.44)	GR	C1PXS-5036G-ND	6.93	5.26
60	Tin	36(91.44)	MC	C1PXS-6036M-ND	18.53	14.05
	Tin	36(91.44)	GR	C1PXS-6036G-ND	8.64	6.56

Card Edge Connector – Single Ended

* MC = Multi-Color,
GR = Gray

Card Edge connector without strain relief shown.

No. of Cont.	Cont. Finish	Length Inch(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Gold	36(91.44)	MC	C1EXG-1036M-ND	5.07	3.85
	Tin	36(91.44)	MC	C1EXS-1036M-ND	4.67	3.54
	Gold	36(91.44)	GR	C1EXG-1036G-ND	3.42	2.60
	Tin	36(91.44)	GR	C1EXS-1036G-ND	3.02	2.29
20	Gold	36(91.44)	MC	C1EXG-2036M-ND	8.38	6.36
	Tin	36(91.44)	MC	C1EXS-2036M-ND	7.85	5.96
	Gold	36(91.44)	GR	C1EXG-2036G-ND	5.28	4.01
	Tin	36(91.44)	GR	C1EXS-2036G-ND	4.75	3.61
26	Gold	36(91.44)	MC	C1EXG-2636M-ND	10.50	7.97
	Tin	36(91.44)	MC	C1EXS-2636M-ND	9.85	7.47
	Gold	36(91.44)	GR	C1EXG-2636G-ND	6.36	4.83
	Tin	36(91.44)	GR	C1EXS-2636G-ND	5.71	4.34
34	Gold	36(91.44)	MC	C1EXG-3436M-ND	13.45	10.20
	Tin	36(91.44)	MC	C1EXS-3436M-ND	12.68	9.61
	Gold	36(91.44)	GR	C1EXG-3436G-ND	7.56	5.73
	Tin	36(91.44)	GR	C1EXS-3436G-ND	6.78	5.15
40	Gold	36(91.44)	MC	C1EXG-4036M-ND	15.79	11.98
	Tin	36(91.44)	MC	C1EXS-4036M-ND	14.86	11.27
	Gold	36(91.44)	GR	C1EXG-4036G-ND	9.37	7.11
	Tin	36(91.44)	GR	C1EXS-4036G-ND	8.44	6.40
50	Gold	36(91.44)	MC	C1EXG-5036M-ND	18.98	14.39
	Tin	36(91.44)	MC	C1EXS-5036M-ND	17.92	13.59
	Gold	36(91.44)	GR	C1EXG-5036G-ND	10.31	7.82
	Tin	36(91.44)	GR	C1EXS-5036G-ND	9.25	7.02

Socket Connector to Socket Connector

* MC = Multi-Color
GR = Gray

Socket connector without strain relief shown.

No. of Cont.	Cont. Finish	Length Inch(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Gold	6(15.24)	MC	C3AAG-1006M-ND	2.88	2.19
	Tin	6(15.24)	MC	C3AAS-1006M-ND	2.51	1.91
	Gold	6(15.24)	GR	C3AAG-1006G-ND	2.61	1.98
	Tin	6(15.24)	GR	C3AAS-1006G-ND	2.23	1.70
	Gold	18(45.72)	MC	C3AAG-1018M-ND	3.68	2.80
	Tin	18(45.72)	MC	C3AAS-1018M-ND	3.31	2.51
	Gold	18(45.72)	GR	C3AAG-1018G-ND	2.86	2.17
	Tin	18(45.72)	GR	C3AAS-1018G-ND	2.49	1.89
	Gold	36(91.44)	MC	C3AAG-1036M-ND	4.89	3.71
	Tin	36(91.44)	MC	C3AAS-1036M-ND	4.51	3.43
	Gold	36(91.44)	GR	C3AAG-1036G-ND	3.24	2.46
	Tin	36(91.44)	GR	C3AAS-1036G-ND	2.87	2.18
14	Gold	6(15.24)	MC	C3AAG-1406M-ND	4.07	3.09
	Tin	6(15.24)	MC	C3AAS-1406M-ND	3.58	2.72
	Gold	6(15.24)	GR	C3AAG-1406G-ND	3.65	2.77
	Tin	6(15.24)	GR	C3AAS-1406G-ND	3.15	2.39
	Gold	18(45.72)	MC	C3AAG-1418M-ND	5.28	4.00
	Tin	18(45.72)	MC	C3AAS-1418M-ND	4.78	3.63
	Gold	18(45.72)	GR	C3AAG-1418G-ND	4.00	3.04
	Tin	18(45.72)	GR	C3AAS-1418G-ND	3.51	2.66
	Gold	36(91.44)	MC	C3AAG-1436M-ND	7.08	5.37
	Tin	36(91.44)	MC	C3AAS-1436M-ND	6.59	5.00
	Gold	36(91.44)	GR	C3AAG-1436G-ND	4.53	3.44
	Tin	36(91.44)	GR	C3AAS-1436G-ND	4.04	3.07
16	Gold	6(15.24)	MC	C3AAG-1606M-ND	4.67	3.55
	Tin	6(15.24)	MC	C3AAS-1606M-ND	4.05	3.08
	Gold	6(15.24)	GR	C3AAG-1606G-ND	4.23	3.21
	Tin	6(15.24)	GR	C3AAS-1606G-ND	3.61	2.74
	Gold	18(45.72)	MC	C3AAG-1618M-ND	5.96	4.52
	Tin	18(45.72)	MC	C3AAS-1618M-ND	5.34	4.05
	Gold	18(45.72)	GR	C3AAG-1618G-ND	4.64	3.52
	Tin	18(45.72)	GR	C3AAS-1618G-ND	4.02	3.05
	Gold	36(91.44)	MC	C3AAG-1636M-ND	7.88	5.98
	Tin	36(91.44)	MC	C3AAS-1636M-ND	7.26	5.51
	Gold	36(91.44)	GR	C3AAG-1636G-ND	5.24	3.98
	Tin	36(91.44)	GR	C3AAS-1636G-ND	4.62	3.51
20	Gold	6(15.24)	MC	C3AAG-2006M-ND	5.02	3.81
	Tin	6(15.24)	MC	C3AAS-2006M-ND	4.40	3.34
	Gold	6(15.24)	GR	C3AAG-2006G-ND	4.50	3.42
	Tin	6(15.24)	GR	C3AAS-2006G-ND	3.88	2.95
	Gold	18(45.72)	MC	C3AAG-2018M-ND	6.62	5.02
	Tin	18(45.72)	MC	C3AAS-2018M-ND	6.00	4.55
	Gold	18(45.72)	GR	C3AAG-2018G-ND	5.07	3.85
	Tin	18(45.72)	GR	C3AAS-2018G-ND	4.45	3.38
	Gold	36(91.44)	MC	C3AAG-2036M-ND	9.03	6.85
	Tin	36(91.44)	MC	C3AAS-2036M-ND	8.41	6.38
	Gold	36(91.44)	GR	C3AAG-2036G-ND	5.93	4.50
	Tin	36(91.44)	GR	C3AAS-2036G-ND	5.31	4.03
26	Gold	6(15.24)	MC	C3AAG-2606M-ND	6.06	4.60
	Tin	6(15.24)	MC	C3AAS-2606M-ND	5.32	4.04
	Gold	6(15.24)	GR	C3AAG-2606G-ND	5.37	4.08
	Tin	6(15.24)	GR	C3AAS-2606G-ND	4.63	3.51
	Gold	18(45.72)	MC	C3AAG-2618M-ND	8.15	6.18
	Tin	18(45.72)	MC	C3AAS-2618M-ND	7.41	5.62
	Gold	18(45.72)	GR	C3AAG-2618G-ND	6.08	4.61
	Tin	18(45.72)	GR	C3AAS-2618G-ND	5.34	4.05
	Gold	36(91.44)	MC	C3AAG-2636M-ND	11.28	8.55
	Tin	36(91.44)	MC	C3AAS-2636M-ND	10.53	7.99
	Gold	36(91.44)	GR	C3AAG-2636G-ND	7.14	5.42
	Tin	36(91.44)	GR	C3AAS-2636G-ND	6.39	4.85
34	Gold	6(15.24)	MC	C3AAG-3406M-ND	7.56	5.74
	Tin	6(15.24)	MC	C3AAS-3406M-ND	6.63	5.03
	Gold	6(15.24)	GR	C3AAG-3406G-ND	6.58	4.99
	Tin	6(15.24)	GR	C3AAS-3406G-ND	5.65	4.29
	Gold	18(45.72)	MC	C3AAG-3418M-ND	10.29	7.81
	Tin	18(45.72)	MC	C3AAS-3418M-ND	9.36	7.10
	Gold	18(45.72)	GR	C3AAG-3418G-ND	7.34	5.57
	Tin	18(45.72)	GR	C3AAS-3418G-ND	6.41	4.87
	Gold	36(91.44)	MC	C3AAG-3436M-ND	14.38	10.91
	Tin	36(91.44)	MC	C3AAS-3436M-ND	13.45	10.20
	Gold	36(91.44)	GR	C3AAG-3436G-ND	8.49	6.44
	Tin	36(91.44)	GR	C3AAS-3436G-ND	7.56	5.73
40	Gold	6(15.24)	MC	C3AAG-4006M-ND	8.42	6.39
	Tin	6(15.24)	MC	C3AAS-4006M-ND	7.37	5.59
	Gold	6(15.24)	GR	C3AAG-4006G-ND	7.35	5.58
	Tin	6(15.24)	GR	C3AAS-4006G-ND	6.30	4.78
	Gold	18(45.72)	MC	C3AAG-4018M-ND	11.63	8.82
	Tin	18(45.72)	MC	C3AAS-4018M-ND	10.58	8.02
	Gold	18(45.72)	GR	C3AAG-4018G-ND	8.42	6.39
	Tin	18(45.72)	GR	C3AAS-4018G-ND	7.36	5.59
40	Gold	36(91.44)	MC	C3AAG-4036M-ND	16.45	12.47
	Tin	36(91.44)	MC	C3AAS-4036M-ND	15.39	11.67
	Gold	36(91.44)	GR	C3AAG-4036G-ND	10.02	7.60
	Tin	36(91.44)	GR	C3AAS-4036G-ND	8.96	6.80
50	Gold	6(15.24)	MC	C3AAG-5006M-ND	10.19	7.73
	Tin	6(15.24)	MC	C3AAS-5006M-ND	8.95	6.79
	Gold	6(15.24)	GR	C3AAG-5006G-ND	8.74	6.63
	Tin	6(15.24)	GR	C3AAS-5006G-ND	7.50	5.69
	Gold	18(45.72)	MC	C3AAG-5018M-ND	14.20	10.77
	Tin	18(45.72)	MC	C3AAS-5018M-ND	12.96	9.83
	Gold	18(45.72)	GR	C3AAG-5018G-ND	9.87	7.48
	Tin	18(45.72)	GR	C3AAS-5018G-ND	8.63	6.54
	Gold	36(91.44)	MC	C3AAG-5036M-ND	20.22	15.33
	Tin	36(91.44)	MC	C3AAS-5036M-ND	18.98	14.39
	Gold	36(91.44)	GR	C3AAG-5036G-ND	11.55	8.76
	Tin	36(91.44)	GR	C3AAS-5036G-ND	10.31	7.82
60	Gold	6(15.24)	MC	C3AAG-6006M-ND	12.39	9.40
	Tin	6(15.24)	MC	C3AAS-6006M-ND	10.90	8.27
	Gold	6(15.24)	GR	C3AAG-6006G-ND	10.74	8.15
	Tin	6(15.24)	GR	C3AAS-6006G-ND	9.25	7.02
	Gold	18(45.72)	MC	C3AAG-6018M-ND	17.20	13.04
	Tin	18(45.72)	MC	C3AAS-6018M-ND	15.71	11.92
	Gold	18(45.72)	GR	C3AAG-6018G-ND	12.26	9.30
	Tin	18(45.72)	GR	C3AAS-6018G-ND	10.77	8.17
	Gold	36(91.44)	MC	C3AAG-6036M-ND	24.42	18.52
	Tin	36(91.44)	MC	C3AAS-6036M-ND	22.93	17.39
	Gold	36(91.44)	GR	C3AAG-6036G-ND	14.53	11.02
	Tin	36(91.44)	GR	C3AAS-6036G-ND	13.05	9.89

Also available in the following versions:
C3BB□-□□□□□-ND — Socket Connector with Strain Relief.
C3CC□-□□□□□-ND — Socket Connector with Central Polarizing Key.
C3DD□-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key.

Call for complete part number and pricing!

PCB Connector to PCB Connector

* MC = Multi-Color
GR = Gray

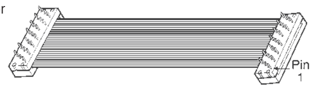

PCB connector without strain relief shown.

No. of Cont.	Cont. Finish	Length Inch(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Tin	6(15.24)	MC	C3PPS-1006M-ND	3.13	2.38
	Tin	6(15.24)	GR	C3PPS-1006G-ND	2.85	2.17
	Tin	18(45.72)	MC	C3PPS-1018M-ND	3.93	2.98
	Tin	18(45.72)	GR	C3PPS-1018G-ND	3.11	2.36
	Tin	36(91.44)	MC	C3PPS-1036M-ND	5.13	3.90
	Tin	36(91.44)	GR	C3PPS-1036G-ND	3.49	2.65
20	Tin	6(15.24)	MC	C3PPS-2006M-ND	3.96	3.01
	Tin	6(15.24)	GR	C3PPS-2006G-ND	3.45	2.62
	Tin	18(45.72)	MC	C3PPS-2018M-ND	5.57	4.23
	Tin	18(45.72)	GR	C3PPS-2018G-ND	4.02	3.05
	Tin	36(91.44)	MC	C3PPS-2036M-ND	7.97	6.05
	Tin	36(91.44)	GR	C3PPS-2036G-ND	4.88	3.70
26	Tin	6(15.24)	MC	C3PPS-2606M-ND	5.13	3.90
	Tin	6(15.24)	GR	C3PPS-2606G-ND	4.44	3.37
	Tin	18(45.72)	MC	C3PPS-2618M-ND	7.22	5.48
	Tin	18(45.72)	GR	C3PPS-2618G-ND	5.15	3.91
	Tin	36(91.44)	MC	C3PPS-2636M-ND	10.35	7.85
	Tin	36(91.44)	GR	C3PPS-2636G-ND	6.21	4.71
34	Tin	6(15.24)	MC	C3PPS-3406M-ND	6.39	4.85
	Tin	6(15.24)	GR	C3PPS-3406G-ND	5.40	4.10
	Tin	18(45.72)	MC	C3PPS-3418M-ND	9.11	6.91
	Tin	18(45.72)	GR	C3PPS-3418G-ND	6.17	4.68
	Tin	36(91.44)	MC	C3PPS-3436M-ND	13.20	10.01
	Tin	36(91.44)	GR	C3PPS-3436G-ND	7.31	5.54
40	Tin	6(15.24)	MC	C3PPS-4006M-ND	7.31	5.54
	Tin	6(15.24)	GR	C3PPS-4006G-ND	6.24	4.73
	Tin	18(45.72)	MC	C3PPS-4018M-ND	10.52	7.98
	Tin	18(45.72)	GR	C3PPS-4018G-ND	7.30	5.54
	Tin	36(91.44)	MC	C3PPS-4036M-ND	15.33	11.63
	Tin	36(91.44)	GR	C3PPS-4036G-ND	8.90	6.75
50	Tin	6(15.24)	MC	C3PPS-5006M-ND	9.14	6.93
	Tin	6(15.24)	GR	C3PPS-5006G-ND	7.69	5.83
	Tin	18(45.72)	MC	C3PPS-5018M-ND	13.15	9.97
	Tin	18(45.72)	GR	C3PPS-5018G-ND	8.81	6.68
	Tin	36(91.44)	MC	C3PPS-5036M-ND	19.16	14.53
	Tin	36(91.44)	GR	C3PPS-5036G-ND	10.49	7.96
60	Tin	6(15.24)	MC	C3PPS-6006M-ND	10.59	8.03
	Tin	6(15.24)	GR	C3PPS-6006G-ND	8.94	6.78
	Tin	18(45.72)	MC	C3PPS-6018M-ND	15.40	11.68
	Tin	18(45.72)	GR	C3PPS-6018G-ND	10.46	7.93
	Tin	36(91.44)	MC	C3PPS-6036M-ND	22.62	17.15
	Tin	36(91.44)	GR	C3PPS-6036G-ND	12.74	9.66

(Continued)

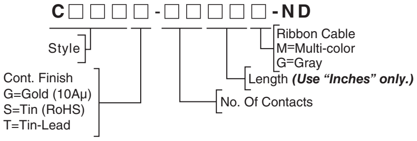

Digi-Key® Custom Cable Assemblies Available

Call Digi-Key

CW INDUSTRIES

Termination Jumpers *(Cont.)*

Card Edge to Card Edge

* MC = Multi-Color
GR = Gray

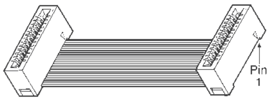

Card Edge connector without strain relief shown.

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Gold	6(15.24)	MC	C3EEG-1006M-ND	5.73	4.35
	Tin	6(15.24)	MC	C3EES-1006M-ND	4.93	3.74
	Gold	6(15.24)	GR	C3EEG-1006G-ND	5.46	4.14
	Tin	6(15.24)	GR	C3EES-1006G-ND	4.65	3.53
	Gold	18(45.72)	MC	C3EEG-1018M-ND	6.54	4.96
	Tin	18(45.72)	MC	C3EES-1018M-ND	5.73	4.35
	Gold	18(45.72)	GR	C3EEG-1018G-ND	5.71	4.33
	Tin	18(45.72)	GR	C3EES-1018G-ND	4.90	3.72
	Gold	36(91.44)	MC	C3EEG-1036M-ND	7.74	5.87
	Tin	36(91.44)	MC	C3EES-1036M-ND	6.93	5.26
	Gold	36(91.44)	GR	C3EEG-1036G-ND	6.09	4.62
	Tin	36(91.44)	GR	C3EES-1036G-ND	5.28	4.01
20	Gold	6(15.24)	MC	C3EEG-2006M-ND	7.93	6.02
	Tin	6(15.24)	MC	C3EES-2006M-ND	6.88	5.22
	Gold	6(15.24)	GR	C3EEG-2006G-ND	7.42	5.63
	Tin	6(15.24)	GR	C3EES-2006G-ND	6.36	4.83
	Gold	18(45.72)	MC	C3EEG-2018M-ND	9.54	7.23
	Tin	18(45.72)	MC	C3EES-2018M-ND	8.48	6.43
	Gold	18(45.72)	GR	C3EEG-2018G-ND	7.99	6.06
	Tin	18(45.72)	GR	C3EES-2018G-ND	6.93	5.26
	Gold	36(91.44)	MC	C3EEG-2036M-ND	11.94	9.06
	Tin	36(91.44)	MC	C3EES-2036M-ND	10.89	8.26
	Gold	36(91.44)	GR	C3EEG-2036G-ND	8.85	6.71
	Tin	36(91.44)	GR	C3EES-2036G-ND	7.79	5.91
26	Gold	6(15.24)	MC	C3EEG-2606M-ND	9.54	7.23
	Tin	6(15.24)	MC	C3EES-2606M-ND	8.23	6.25
	Gold	6(15.24)	GR	C3EEG-2606G-ND	8.85	6.71
	Tin	6(15.24)	GR	C3EES-2606G-ND	7.54	5.72
	Gold	18(45.72)	MC	C3EEG-2618M-ND	11.62	8.81
	Tin	18(45.72)	MC	C3EES-2618M-ND	10.32	7.83
	Gold	18(45.72)	GR	C3EEG-2618G-ND	9.55	7.25
	Tin	18(45.72)	GR	C3EES-2618G-ND	8.25	6.26
	Gold	36(91.44)	MC	C3EEG-2636M-ND	14.75	11.19
	Tin	36(91.44)	MC	C3EES-2636M-ND	13.45	10.20
	Gold	36(91.44)	GR	C3EEG-2636G-ND	10.61	8.05
	Tin	36(91.44)	GR	C3EES-2636G-ND	9.31	7.06
34	Gold	6(15.24)	MC	C3EEG-3406M-ND	11.90	9.03
	Tin	6(15.24)	MC	C3EES-3406M-ND	10.35	7.85
	Gold	6(15.24)	GR	C3EEG-3406G-ND	10.92	8.28
	Tin	6(15.24)	GR	C3EES-3406G-ND	9.37	7.11
	Gold	18(45.72)	MC	C3EEG-3418M-ND	14.63	11.10
	Tin	18(45.72)	MC	C3EES-3418M-ND	13.08	9.92
	Gold	18(45.72)	GR	C3EEG-3418G-ND	11.68	8.86
	Tin	18(45.72)	GR	C3EES-3418G-ND	10.13	7.69
	Gold	36(91.44)	MC	C3EEG-3436M-ND	18.72	14.20
	Tin	36(91.44)	MC	C3EES-3436M-ND	17.17	13.02
	Gold	36(91.44)	GR	C3EEG-3436G-ND	12.83	9.73
	Tin	36(91.44)	GR	C3EES-3436G-ND	11.28	8.55
40	Gold	6(15.24)	MC	C3EEG-4006M-ND	13.94	10.57
	Tin	6(15.24)	MC	C3EES-4006M-ND	12.08	9.16
	Gold	6(15.24)	GR	C3EEG-4006G-ND	12.87	9.76
	Tin	6(15.24)	GR	C3EES-4006G-ND	11.01	8.35
	Gold	18(45.72)	MC	C3EEG-4018M-ND	17.15	13.01
	Tin	18(45.72)	MC	C3EES-4018M-ND	15.29	11.60
	Gold	18(45.72)	GR	C3EEG-4018G-ND	13.94	10.57
	Tin	18(45.72)	GR	C3EES-4018G-ND	12.08	9.16
	Gold	36(91.44)	MC	C3EEG-4036M-ND	21.96	16.65
	Tin	36(91.44)	MC	C3EES-4036M-ND	20.10	15.24
	Gold	36(91.44)	GR	C3EEG-4036G-ND	15.54	11.78
	Tin	36(91.44)	GR	C3EES-4036G-ND	13.68	10.37
50	Gold	6(15.24)	MC	C3EEG-5006M-ND	15.89	12.05
	Tin	6(15.24)	MC	C3EES-5006M-ND	13.79	10.45
	Gold	6(15.24)	GR	C3EEG-5006G-ND	14.45	10.96
	Tin	6(15.24)	GR	C3EES-5006G-ND	12.34	9.36
	Gold	18(45.72)	MC	C3EEG-5018M-ND	19.90	15.09
	Tin	18(45.72)	MC	C3EES-5018M-ND	17.80	13.49
	Gold	18(45.72)	GR	C3EEG-5018G-ND	15.57	11.81
	Tin	18(45.72)	GR	C3EES-5018G-ND	13.46	10.21
	Gold	36(91.44)	MC	C3EEG-5036M-ND	25.92	19.65
	Tin	36(91.44)	MC	C3EES-5036M-ND	23.81	18.06
	Gold	36(91.44)	GR	C3EEG-5036G-ND	17.25	13.08
	Tin	36(91.44)	GR	C3EES-5036G-ND	15.14	11.48

Socket Connector to PCB Connector

* MC = Multi-Color
GR = Gray

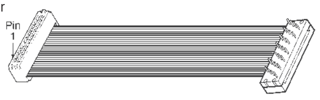

Socket connector and PCB connector without strain relief shown.

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Tin	6(15.24)	MC	C3APS-1006M-ND	2.82	2.14
	Tin	6(15.24)	GR	C3APS-1006G-ND	2.54	1.93
	Tin	18(45.72)	MC	C3APS-1018M-ND	3.62	2.75
	Tin	18(45.72)	GR	C3APS-1018G-ND	2.80	2.12
	Tin	36(91.44)	MC	C3APS-1036M-ND	4.82	3.66
	Tin	36(91.44)	GR	C3APS-1036G-ND	3.18	2.41
20	Tin	6(15.24)	MC	C3APS-2006M-ND	4.18	3.17
	Tin	6(15.24)	GR	C3APS-2006G-ND	3.67	2.78
	Tin	18(45.72)	MC	C3APS-2018M-ND	5.79	4.39
	Tin	18(45.72)	GR	C3APS-2018G-ND	4.24	3.22
	Tin	36(91.44)	MC	C3APS-2036M-ND	8.19	6.21
	Tin	36(91.44)	GR	C3APS-2036G-ND	5.10	3.87
26	Tin	6(15.24)	MC	C3APS-2606M-ND	5.23	3.97
	Tin	6(15.24)	GR	C3APS-2606G-ND	4.54	3.44
	Tin	18(45.72)	MC	C3APS-2618M-ND	7.31	5.55
	Tin	18(45.72)	GR	C3APS-2618G-ND	5.24	3.98
	Tin	36(91.44)	MC	C3APS-2636M-ND	10.44	7.92
	Tin	36(91.44)	GR	C3APS-2636G-ND	6.30	4.78
34	Tin	6(15.24)	MC	C3APS-3406M-ND	6.51	4.94
	Tin	6(15.24)	GR	C3APS-3406G-ND	5.53	4.19
	Tin	18(45.72)	MC	C3APS-3418M-ND	9.24	7.01
	Tin	18(45.72)	GR	C3APS-3418G-ND	6.29	4.77
	Tin	36(91.44)	MC	C3APS-3436M-ND	13.33	10.11
	Tin	36(91.44)	GR	C3APS-3436G-ND	7.43	5.64
40	Tin	6(15.24)	MC	C3APS-4006M-ND	7.34	5.57
	Tin	6(15.24)	GR	C3APS-4006G-ND	6.27	4.76
	Tin	18(45.72)	MC	C3APS-4018M-ND	10.55	8.00
	Tin	18(45.72)	GR	C3APS-4018G-ND	7.33	5.56
	Tin	36(91.44)	MC	C3APS-4036M-ND	15.36	11.65
	Tin	36(91.44)	GR	C3APS-4036G-ND	8.93	6.78
50	Tin	6(15.24)	MC	C3APS-5006M-ND	9.04	6.86
	Tin	6(15.24)	GR	C3APS-5006G-ND	7.60	5.76
	Tin	18(45.72)	MC	C3APS-5018M-ND	13.05	9.90
	Tin	18(45.72)	GR	C3APS-5018G-ND	8.72	6.61
	Tin	36(91.44)	MC	C3APS-5036M-ND	19.07	14.46
	Tin	36(91.44)	GR	C3APS-5036G-ND	10.40	7.89
60	Tin	6(15.24)	MC	C3APS-6006M-ND	10.75	8.15
	Tin	6(15.24)	GR	C3APS-6006G-ND	9.10	6.90
	Tin	18(45.72)	MC	C3APS-6018M-ND	15.56	11.80
	Tin	18(45.72)	GR	C3APS-6018G-ND	10.62	8.05
	Tin	36(91.44)	MC	C3APS-6036M-ND	22.78	17.27
	Tin	36(91.44)	GR	C3APS-6036G-ND	12.89	9.78

Also available in the following versions:
C3BP□-□□□□□-ND – Socket Connector with Strain Relief.
C3CP□-□□□□□-ND – Socket Connector with Central Polarizing Key.
C3DP□-□□□□□-ND – Socket Connector with Strain Relief and Central Polarizing Key.

Call for complete part number and pricing!

Socket Connector to Card Edge Connector

* MC = Multi-Color,
GR = Gray

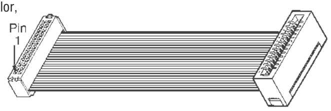

Socket connector and Card Edge connectors without strain relief shown.

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Gold	6(15.24)	MC	C3AEG-1006M-ND	4.31	3.27
	Tin	6(15.24)	MC	C3AES-1006M-ND	3.72	2.82
	Gold	6(15.24)	GR	C3AEG-1006G-ND	4.03	3.06
	Tin	6(15.24)	GR	C3AES-1006G-ND	3.44	2.61
	Gold	18(45.72)	MC	C3AEG-1018M-ND	5.11	3.88
	Tin	18(45.72)	MC	C3AES-1018M-ND	4.52	3.43
	Gold	18(45.72)	GR	C3AEG-1018G-ND	4.28	3.25
	Tin	18(45.72)	GR	C3AES-1018G-ND	3.70	2.81
	Gold	36(91.44)	MC	C3AEG-1036M-ND	6.31	4.79
	Tin	36(91.44)	MC	C3AES-1036M-ND	5.72	4.34
	Gold	36(91.44)	GR	C3AEG-1036G-ND	4.66	3.54
	Tin	36(91.44)	GR	C3AES-1036G-ND	4.07	3.09
20	Gold	6(15.24)	MC	C3AEG-2006M-ND	6.48	4.91
	Tin	6(15.24)	MC	C3AES-2006M-ND	5.64	4.28
	Gold	6(15.24)	GR	C3AEG-2006G-ND	5.96	4.52
	Tin	6(15.24)	GR	C3AES-2006G-ND	5.12	3.89
	Gold	18(45.72)	MC	C3AEG-2018M-ND	8.08	6.13
	Tin	18(45.72)	MC	C3AES-2018M-ND	7.24	5.49
	Gold	18(45.72)	GR	C3AEG-2018G-ND	6.53	4.96
	Tin	18(45.72)	GR	C3AES-2018G-ND	5.69	4.32
	Gold	36(91.44)	MC	C3AEG-2036M-ND	10.49	7.95
	Tin	36(91.44)	MC	C3AES-2036M-ND	9.65	7.32
	Gold	36(91.44)	GR	C3AEG-2036G-ND	7.39	5.61
	Tin	36(91.44)	GR	C3AES-2036G-ND	6.55	4.97
26	Gold	6(15.24)	MC	C3AEG-2606M-ND	7.80	5.92
	Tin	6(15.24)	MC	C3AES-2606M-ND	6.78	5.14
	Gold	6(15.24)	GR	C3AEG-2606G-ND	7.11	5.39
	Tin	6(15.24)	GR	C3AES-2606G-ND	6.09	4.62
	Gold	18(45.72)	MC	C3AEG-2618M-ND	9.89	7.50
	Tin	18(45.72)	MC	C3AES-2618M-ND	8.86	6.72
	Gold	18(45.72)	GR	C3AEG-2618G-ND	7.82	5.93
	Tin	18(45.72)	GR	C3AES-2618G-ND	6.79	5.15
	Gold	36(91.44)	MC	C3AEG-2636M-ND	13.01	9.87
	Tin	36(91.44)	MC	C3AES-2636M-ND	11.99	9.09
	Gold	36(91.44)	GR	C3AEG-2636G-ND	8.87	6.73
	Tin	36(91.44)	GR	C3AES-2636G-ND	7.85	5.96
34	Gold	6(15.24)	MC	C3AEG-3406M-ND	9.73	7.38
	Tin	6(15.24)	MC	C3AES-3406M-ND	8.49	6.44
	Gold	6(15.24)	GR	C3AEG-3406G-ND	8.75	6.64
	Tin	6(15.24)	GR	C3AES-3406G-ND	7.51	5.70
	Gold	18(45.72)	MC	C3AEG-3418M-ND	12.46	9.45
	Tin	18(45.72)	MC	C3AES-3418M-ND	11.22	8.51
34	Gold	18(45.72)	GR	C3AEG-3418G-ND	9.51	7.22
	Tin	18(45.72)	GR	C3AES-3418G-ND	8.27	6.28
	Gold	36(91.44)	MC	C3AEG-3436M-ND	16.55	12.55
	Tin	36(91.44)	MC	C3AES-3436M-ND	15.31	11.61
	Gold	36(91.44)	GR	C3AEG-3436G-ND	10.66	8.08
	Tin	36(91.44)	GR	C3AES-3436G-ND	9.42	7.14
40	Gold	6(15.24)	MC	C3AEG-4006M-ND	11.18	8.48
	Tin	6(15.24)	MC	C3AES-4006M-ND	9.73	7.38
	Gold	6(15.24)	GR	C3AEG-4006G-ND	10.11	7.67
	Tin	6(15.24)	GR	C3AES-4006G-ND	8.65	6.57
	Gold	18(45.72)	MC	C3AEG-4018M-ND	14.39	10.91
	Tin	18(45.72)	MC	C3AES-4018M-ND	12.93	9.81
	Gold	18(45.72)	GR	C3AEG-4018G-ND	11.18	8.48
	Tin	18(45.72)	GR	C3AES-4018G-ND	9.72	7.37
	Gold	36(91.44)	MC	C3AEG-4036M-ND	19.20	14.56
	Tin	36(91.44)	MC	C3AES-4036M-ND	17.75	13.46
	Gold	36(91.44)	GR	C3AEG-4036G-ND	12.78	9.69
	Tin	36(91.44)	GR	C3AES-4036G-ND	11.32	8.59
50	Gold	6(15.24)	MC	C3AEG-5006M-ND	13.04	9.89
	Tin	6(15.24)	MC	C3AES-5006M-ND	11.37	8.62
	Gold	6(15.24)	GR	C3AEG-5006G-ND	11.60	8.80
	Tin	6(15.24)	GR	C3AES-5006G-ND	9.92	7.53
	Gold	18(45.72)	MC	C3AEG-5018M-ND	17.05	12.93
	Tin	18(45.72)	MC	C3AES-5018M-ND	15.38	11.66
	Gold	18(45.72)	GR	C3AEG-5018G-ND	12.72	9.65
	Tin	18(45.72)	GR	C3AES-5018G-ND	11.04	8.38
	Gold	36(91.44)	MC	C3AEG-5036M-ND	23.07	17.49
	Tin	36(91.44)	MC	C3AES-5036M-ND	21.39	16.22
	Gold	36(91.44)	GR	C3AEG-5036G-ND	14.40	10.92
	Tin	36(91.44)	GR	C3AES-5036G-ND	12.72	9.65

Also available in the following versions:
C3BE□-□□□□□-ND – Socket Connector with Strain Relief.
C3CE□-□□□□□-ND – Socket Connector with Central Polarizing Key.
C3DE□-□□□□□-ND – Socket Connector with Strain Relief and Central Polarizing Key.

Call for complete part number and pricing!

PCB Connector to Card Edge Connector

* MC = Multi-Color,
GR = Gray

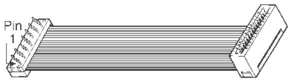

PCB and Card Edge connectors are without strain relief.

No. of Cont.	Cont. Finish	Length In.(cm)	Ribbon Cable*	Digi-Key Part No.	Price Each 1	Price Each 10
10	Tin	6(15.24)	MC	C3PES-1006M-ND	4.03	3.06
	Tin	6(15.24)	GR	C3PES-1006G-ND	3.75	2.85
	Tin	18(45.72)	MC	C3PES-1018M-ND	4.83	3.67
	Tin	18(45.72)	GR	C3PES-1018G-ND	4.01	3.04
	Tin	36(91.44)	MC	C3PES-1036M-ND	6.03	4.58
	Tin	36(91.44)	GR	C3PES-1036G-ND	4.38	3.33
20	Tin	6(15.24)	MC	C3PES-2006M-ND	5.42	4.11
	Tin	6(15.24)	GR	C3PES-2006G-ND	4.91	3.72
	Tin	18(45.72)	MC	C3PES-2018M-ND	7.03	5.33
	Tin	18(45.72)	GR	C3PES-2018G-ND	5.48	4.16
	Tin	36(91.44)	MC	C3PES-2036M-ND	9.43	7.15
	Tin	36(91.44)	GR	C3PES-2036G-ND	6.34	4.81
26	Tin	6(15.24)	MC	C3PES-2606M-ND	6.68	5.07
	Tin	6(15.24)	GR	C3PES-2606G-ND	5.99	4.55
	Tin	18(45.72)	MC	C3PES-2618M-ND	8.77	6.65
	Tin	18(45.72)	GR	C3PES-2618G-ND	6.70	5.08
	Tin	36(91.44)	MC	C3PES-2636M-ND	11.90	9.02
	Tin	36(91.44)	GR	C3PES-2636G-ND	7.76	5.89
34	Tin	6(15.24)	MC	C3PES-3406M-ND	8.37	6.35
	Tin	6(15.24)	GR	C3PES-3406G-ND	7.39	5.60
	Tin	18(45.72)	MC	C3PES-3418M-ND	11.10	8.42
	Tin	18(45.72)	GR	C3PES-3418G-ND	8.15	6.18
	Tin	36(91.44)	MC	C3PES-3436M-ND	15.19	11.52
	Tin	36(91.44)	GR	C3PES-3436G-ND	9.29	7.05
40	Tin	6(15.24)	MC	C3PES-4006M-ND	9.70	7.35
	Tin	6(15.24)	GR	C3PES-4006G-ND	8.62	6.54
	Tin	18(45.72)	MC	C3PES-4018M-ND	12.90	9.79
	Tin	18(45.72)	GR	C3PES-4018G-ND	9.69	7.35
	Tin	36(91.44)	MC	C3PES-4036M-ND	17.72	13.43
	Tin	36(91.44)	GR	C3PES-4036G-ND	11.29	8.56
50	Tin	6(15.24)	MC	C3PES-5006M-ND	11.46	8.69
	Tin	6(15.24)	GR	C3PES-5006G-ND	10.02	7.60
	Tin	18(45.72)	MC	C3PES-5018M-ND	15.47	11.73
	Tin	18(45.72)	GR	C3PES-5018G-ND	11.14	8.45
	Tin	36(91.44)	MC	C3PES-5036M-ND	21.49	16.29
	Tin	36(91.44)	GR	C3PES-5036G-ND	12.82	9.72

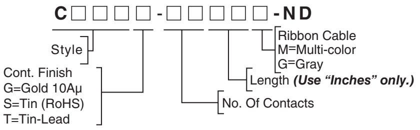

Digi-Key® Custom Cable Assemblies Available

Call Digi-Key

CW INDUSTRIES

Protected Headers

Straight-Lead

No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
26	2.06 (52.32)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)

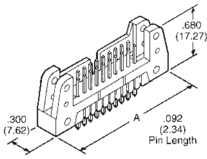

Lock Ejector Hooks, two required per connector, sold separately

Right-Angle

No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
26	2.06 (52.32)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)

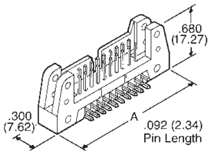

Lock Ejector Hooks, two required per connector, sold separately

Straight-Lead Wire Wrap

Lock Ejector Hooks, two required per connector, sold separately

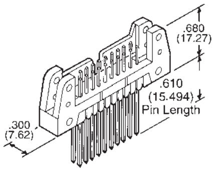

Right-Angle Wire Wrap

Lock Ejector Hooks, two required per connector, sold separately

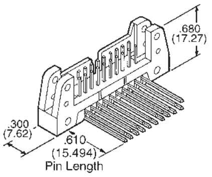

SPECIFICATIONS:
- **Contacts:** Phosphor bronze, standard
- **Contact Plating:** 10μ inch gold (in mating area) over 50μ inch nickel
- **Insulator Material:** UL 94V-0 flame-retardant thermoplastic
- **Color:** Blue
- **Operating Temperature:** -55°C ~ 125°C
- **Current Rating:** 1A (maximum) per contact
- **Dielectric Withstand Voltage:** greater than 500VDC at sea level
- **Insulation Resistance:** greater than 5 x 10⁹Ω
- U.S. Defense Department Mil-C-83503/20, 21, approved

No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	1,000
Protected Headers - Gold Finish						
10	Straight-Lead	CHS10G-ND	1.12	.85	.65	.47
	Right-Angle	CHR10G-ND	1.12	.85	.65	.47
	Straight-Lead WW	CHW10G-ND	2.29	1.74	1.34	.97
	Right-Angle WW	CHA10G-ND	2.29	1.74	1.34	.97
14	Straight-Lead	CHS14G-ND	1.43	1.09	.83	.60
	Right-Angle	CHR14G-ND	1.43	1.09	.83	.60
	Straight-Lead WW	CHW14G-ND	2.91	2.21	1.70	1.23
	Right-Angle WW	CHA14G-ND	2.91	2.21	1.70	1.23
16	Straight-Lead	CHS16G-ND	1.58	1.20	.92	.67
	Right-Angle	CHR16G-ND	1.58	1.20	.92	.67
	Straight-Lead WW	CHW16G-ND	3.29	2.50	1.91	1.38
	Right-Angle WW	CHA16G-ND	3.29	2.50	1.91	1.38
20	Straight-Lead	CHS20G-ND	1.67	1.27	.98	.71
	Right-Angle	CHR20G-ND	1.67	1.27	.98	.71
	Straight-Lead WW	CHW20G-ND	3.41	2.59	1.98	1.43
	Right-Angle WW	CHA20G-ND	3.41	2.59	1.98	1.43
26	Straight-Lead	CHS26G-ND	2.05	1.56	1.19	.86
	Right-Angle	CHR26G-ND	2.05	1.56	1.19	.86
	Straight-Lead WW	CHW26G-ND	4.09	3.11	2.38	1.72
	Right-Angle WW	CHA26G-ND	4.09	3.11	2.38	1.72
34	Straight-Lead	CHS34G-ND	2.45	1.86	1.43	1.03
	Right-Angle	CHR34G-ND	2.45	1.86	1.43	1.03
	Straight-Lead WW	CHW34G-ND	4.90	3.72	2.85	2.06
	Right-Angle WW	CHA34G-ND	4.90	3.72	2.85	2.06
40	Straight-Lead	CHS40G-ND	2.98	2.26	1.73	1.25
	Right-Angle	CHR40G-ND	2.98	2.26	1.73	1.25
	Straight-Lead WW	CHW40G-ND	5.98	4.54	3.48	2.51
	Right-Angle WW	CHA40G-ND	5.98	4.54	3.48	2.51
50	Straight-Lead	CHS50G-ND	3.35	2.54	1.95	1.41
	Right-Angle	CHR50G-ND	3.35	2.54	1.95	1.41
	Straight-Lead WW	CHW50G-ND	6.70	5.08	3.89	2.81
	Right-Angle WW	CHA50G-ND	6.70	5.08	3.89	2.81
60	Straight-Lead ST* (Shrouded)	CHB60G-ND	5.44	4.13	3.16	2.29
	Straight-Lead WW* (Shrouded)	CHC60G-ND	5.44	4.13	3.16	2.29
	Right-Angle ST* (Shrouded)	CHD60G-ND	3.98	3.02	2.32	1.67
	Right-Angle WW* (Shrouded)	CHE60G-ND	5.44	4.13	3.16	2.29
CLKS01-ND	Lock Ejector Hooks-Short (2 required per connector)					**$.37/2**
CLKS02-ND	Lock Ejector Hooks: Long - with strain relief; (2 required per connector)					**$.37/2**

* Lock ejector hooks included

Tyco Electronics **AMP**

Authorized Distributor

Protected Headers

SPECIFICATIONS:
- **Material and Finish:** Housing and Latches — Black thermo-plastic, 94V-0 rated
- **Contact Finish:** 15μ or 30μ gold on post/pin mating end, 100μ" tin on termination end, with entire contact underplated .000050 nickel
- Connectors recognized under component program of Under-writers Laboratories Inc. File No. E28476
- Connectors certified by Canadian Standards Association File No. LR16455
- .025" (.64mm) Sq. Posts, .240" (6.10mm) Mating Post Length

Straight-Lead

No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
24	1.96 (49.78)
26	2.06 (52.32)
30	2.26 (57.40)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)
64	3.96 (100.58)

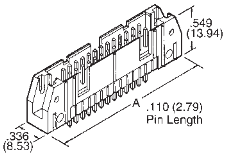

Lock Ejector Hooks, two required per connector, sold separately

No. of Contacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Pin Header without Latches						
20	30μ"	.155 (3.94)	AHJ20K-ND	2.51	2.26	102156-4
30	15μ"	.110 (2.79)	AHS30G-ND	4.31	3.89	102153-7
Pin Header Without Latches — RoHS Compliant						
10	15μ"	.110 (2.79)	AHS10H-ND	1.00	.90	5102153-1
	30μ"	.110 (2.79)	AHS10L-ND	1.14	1.03	5102154-1
	15μ"	.155 (3.94)	AHJ10H-ND	1.14	1.03	5102155-1
14	15μ"	.110 (2.79)	AHS14H-ND	1.38	1.25	5102153-2
	30μ"	.110 (2.79)	AHS14L-ND	1.80	1.62	5102154-2
16	15μ"	.110 (2.79)	AHS16H-ND	1.57	1.42	5102153-3
	30μ"	.110 (2.79)	AHS16L-ND	1.81	1.63	5102154-3
	15μ"	.155 (3.94)	AHJ16H-ND	1.81	1.63	5102155-3
	30μ"	.155 (3.94)	AHJ16L-ND	3.27	2.72	5102156-3
20	15μ"	.110 (2.79)	AHS20H-ND	1.95	1.76	5102153-4
	30μ"	.110 (2.79)	AHS20L-ND	2.61	2.35	5102154-4
	30μ"	.155 (3.94)	AHJ20L-ND	3.93	3.54	5102156-4
24	15μ"	.110 (2.79)	AHS24H-ND	2.78	2.51	5102153-5
	30μ"	.110 (2.79)	AHS24L-ND	3.07	2.77	5102154-5
	30μ"	.155 (3.94)	AHJ24L-ND	2.76	2.49	5102156-5
26	15μ"	.110 (2.79)	AHS26H-ND	2.47	2.23	5102153-6
	30μ"	.110 (2.79)	AHS26L-ND	2.61	2.36	5102154-6
	15μ"	.155 (3.94)	AHJ26H-ND	3.01	2.71	5102155-6
	30μ"	.155 (3.94)	AHJ26L-ND	3.48	3.13	5102156-6
30	15μ"	.110 (2.79)	AHS30H-ND	3.91	3.52	5102153-7
	30μ"	.110 (2.79)	AHS30L-ND	4.56	4.11	5102154-7
34	15μ"	.110 (2.79)	AHS34H-ND	3.92	3.53	5102153-8
	30μ"	.110 (2.79)	AHS34L-ND	3.23	2.91	5102154-8
	15μ"	.155 (3.94)	AHJ34H-ND	3.23	2.91	5102155-8
	30μ"	.155 (3.94)	AHJ34L-ND	3.42	3.08	5102156-8
40	15μ"	.110 (2.79)	AHS40H-ND	3.61	3.26	5102153-9
	30μ"	.110 (2.79)	AHS40L-ND	3.71	3.34	5102154-9
	15μ"	.155 (3.94)	AHJ40H-ND	4.26	3.84	5102155-9
	30μ"	.155 (3.94)	AHJ40L-ND	3.95	3.56	5102156-9
50	15μ"	.110 (2.79)	AHS50H-ND	4.28	3.86	1-5102153-0
	30μ"	.110 (2.79)	AHS50L-ND	5.33	4.80	1-5102154-0
	15μ"	.155 (3.94)	AHJ50H-ND	5.03	4.53	1-5102155-0
	30μ"	.155 (3.94)	AHJ50L-ND	5.82	5.24	1-5102156-0
60	30μ"	.110 (2.79)	AHS60L-ND	6.18	5.57	1-5102154-1
	30μ"	.155 (3.94)	AHJ60L-ND	7.41	6.67	1-5102156-1
64	15μ"	.110 (2.79)	AHS64H-ND	5.61	5.05	1-5102153-2
	30μ"	.110 (2.79)	AHS64L-ND	6.33	5.70	1-5102154-2
	15μ"	.155 (3.94)	AHJ64H-ND	9.69	8.73	1-5102155-2
	30μ"	.155 (3.94)	AHJ64L-ND	6.63	5.97	1-5102156-2
Pin Header with ACTION PIN Contacts						
34	30μ"	.174 (4.42)	AHA34A-ND	5.37	4.84	499582-8
Pin Header with ACTION PIN Contacts RoHS Compliant						
10	30μ"	.174 (4.42)	AHA10B-ND	2.20	1.99	1658694-6
14	30μ"	.174 (4.42)	AHA14B-ND	2.47	2.23	1658694-7
16	30μ"	.174 (4.42)	AHA16B-ND	3.36	3.03	1658694-8
20	30μ"	.174 (4.42)	AHA20B-ND	3.94	3.55	1658694-1
24	30μ"	.174 (4.42)	AHA24B-ND	4.75	4.28	1658694-9
26	30μ"	.174 (4.42)	AHA26B-ND	4.09	3.68	1658694-2
30	30μ"	.174 (4.42)	AHA30B-ND	4.61	4.15	1-1658694-0
34	30μ"	.174 (4.42)	AHA34B-ND	5.04	4.54	1-1658694-1
40	30μ"	.174 (4.42)	AHA40B-ND	5.55	5.00	1-1658694-3
64	30μ"	.174 (4.42)	AHA64B-ND	10.32	9.29	1658694-5
Pin Header with Short Latches						
26	30μ"	.155 (3.94)	AHG26A-ND	5.18	4.67	499374-6
Pin Header with Short Latches — RoHS Compliant						
10	15μ"	.110 (2.79)	AHE10H-ND	1.66	1.50	5499910-1
	30μ"	.110 (2.79)	AHE10B-ND	1.76	1.59	5499160-1
	30μ"	.155 (3.94)	AHG10B-ND	2.47	2.22	5499374-1
14	15μ"	.110 (2.79)	AHE14H-ND	2.28	2.06	5499910-2
	30μ"	.155 (3.94)	AHG14B-ND	4.35	3.92	5499374-2
16	15μ"	.110 (2.79)	AHE16H-ND	2.52	2.27	5499910-3
	30μ"	.110 (2.79)	AHE16B-ND	2.71	2.44	5499160-3
20	15μ"	.110 (2.79)	AHE20H-ND	3.77	3.39	5499910-4
	30μ"	.110 (2.79)	AHE20B-ND	6.30	5.67	5499160-4
	30μ"	.155 (3.94)	AHG20B-ND	5.84	5.26	5499374-4
24	15μ"	.110 (2.79)	AHE24H-ND	3.57	3.21	5499910-5
	30μ"	.155 (3.94)	AHG24B-ND	4.75	4.28	5499374-5
26	15μ"	.110 (2.79)	AHE26H-ND	3.80	3.43	5499910-6
	30μ"	.110 (2.79)	AHE26B-ND	4.98	4.49	5499160-6
	30μ"	.155 (3.94)	AHG26B-ND	4.70	4.24	5499374-6
30	15μ"	.110 (2.79)	AHE30H-ND	6.74	6.07	5499910-7
34	15μ"	.110 (2.79)	AHE34H-ND	4.71	4.24	5499910-8
	30μ"	.110 (2.79)	AHE34B-ND	5.07	4.57	5499160-8
	30μ"	.155 (3.94)	AHG34B-ND	7.11	6.40	5499374-8
40	15μ"	.110 (2.79)	AHE40H-ND	6.57	5.92	5499910-9
	30μ"	.110 (2.79)	AHE40B-ND	7.17	6.46	5499160-9
	30μ"	.155 (3.94)	AHG40B-ND	9.06	8.16	5499374-9
50	15μ"	.110 (2.79)	AHE50H-ND	6.54	5.89	1-5499910-0
	30μ"	.110 (2.79)	AHE50B-ND	8.73	7.86	1-5499160-0
	30μ"	.155 (3.94)	AHG50B-ND	8.73	7.86	1-5499374-0
Pin Header with Long Latches						
60	30μ"	.155 (3.94)	AHL60A-ND	13.89	12.51	1-102321-1
Pin Header with Long Latches — RoHS Compliant						
10	15μ"	.110 (2.79)	AHK10H-ND	2.28	2.06	5499922-1
	30μ"	.110 (2.79)	AHK10B-ND	1.66	1.50	5499206-1
	15μ"	.155 (3.94)	AHL10H-ND	3.07	2.77	5499923-1
	30μ"	.155 (3.94)	AHL10B-ND	2.14	1.93	5102321-1
14	15μ"	.110 (2.79)	AHK14H-ND	2.28	2.06	5499922-2
	30μ"	.110 (2.79)	AHK14B-ND	2.42	2.19	5499206-2
	30μ"	.155 (3.94)	AHL14B-ND	2.79	2.51	5102321-2
16	15μ"	.110 (2.79)	AHK16H-ND	2.83	2.55	5499922-3
	30μ"	.110 (2.79)	AHK16B-ND	2.71	2.44	5499206-3
	15μ"	.155 (3.94)	AHL16H-ND	2.52	2.27	5499923-3
	30μ"	.155 (3.94)	AHL16B-ND	2.71	2.44	5102321-3
20	15μ"	.110 (2.79)	AHK20H-ND	4.23	3.81	5499922-4
	30μ"	.110 (2.79)	AHK20B-ND	3.28	2.96	5499206-4
	15μ"	.155 (3.94)	AHL20H-ND	3.09	2.79	5499923-4
	30μ"	.155 (3.94)	AHL20B-ND	3.28	2.96	5102321-4
24	15μ"	.110 (2.79)	AHK24H-ND	3.57	3.21	5499922-5
	30μ"	.110 (2.79)	AHK24B-ND	3.90	3.51	5499206-5
	30μ"	.155 (3.94)	AHL24B-ND	5.23	4.35	5102321-5
26	15μ"	.110 (2.79)	AHK26H-ND	3.80	3.43	5499922-6
	30μ"	.110 (2.79)	AHK26B-ND	3.33	3.00	5499206-6
	15μ"	.155 (3.94)	AHL26H-ND	4.38	3.95	5499923-6
	30μ"	.155 (3.94)	AHL26B-ND	4.09	3.68	5102321-6
30	30μ"	.110 (2.79)	AHK30B-ND	5.62	5.06	5499206-7
	15μ"	.155 (3.94)	AHL30H-ND	4.26	3.84	5499923-7
	30μ"	.155 (3.94)	AHL30B-ND	4.61	4.15	5102321-7
34	15μ"	.110 (2.79)	AHK34H-ND	5.29	4.76	5499922-8
	30μ"	.110 (2.79)	AHK34B-ND	5.07	4.57	5499206-8
	15μ"	.155 (3.94)	AHL34H-ND	5.49	4.95	5499923-8
	30μ"	.155 (3.94)	AHL34B-ND	5.07	4.57	5102321-8
40	15μ"	.110 (2.79)	AHK40H-ND	5.40	4.86	5499922-9
	30μ"	.110 (2.79)	AHK40B-ND	7.17	6.46	5499206-9
	15μ"	.155 (3.94)	AHL40H-ND	5.43	4.89	5499923-9
	30μ"	.155 (3.94)	AHL40B-ND	7.17	6.46	5102321-9
50	15μ"	.110 (2.79)	AHK50H-ND	7.35	6.62	1-5499922-0
	30μ"	.110 (2.79)	AHK50B-ND	7.50	6.75	1-5499206-0
	15μ"	.155 (3.94)	AHL50H-ND	6.63	5.97	1-5499923-0
	30μ"	.155 (3.94)	AHL50B-ND	7.14	6.43	1-5102321-0
60	15μ"	.110 (2.79)	AHK60H-ND	9.36	8.43	1-5499922-1
	30μ"	.110 (2.79)	AHK60B-ND	8.37	7.54	1-5499206-1
	15μ"	.155 (3.94)	AHL60H-ND	13.02	11.72	1-5499923-1
	30μ"	.155 (3.94)	AHL60B-ND	12.93	11.64	1-5102321-1
64	15μ"	.110 (2.79)	AHK64H-ND	7.92	7.13	1-5499922-2
	30μ"	.110 (2.79)	AHK64B-ND	13.05	11.75	1-5499206-2
	15μ"	.155 (3.94)	AHL64H-ND	13.47	12.13	1-5499923-2
	30μ"	.155 (3.94)	AHL64B-ND	10.56	9.51	1-5102321-2
Lock Ejector Hooks (2 Required per Connector) RoHS Compliant						
Short			ALSN01-ND	.69/2	—	102312-1
Long w/out Push Tabs			ALLN01-ND	.71/2	—	102320-1
Pin Header Mounting Kit † — RoHS Compliant						
Bolt and Nut, 2 each/kit			A26333-ND	1.92	—	102198-1

† 2-56 bolts and nuts may be used to mount pin headers with and without latches. If latches are to be used, the bolts must be positioned in the pin header before the latches are installed.

(Continued)

Right-Angle

No. of Pins	Dim. A Inch (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
24	1.96 (49.78)
26	2.06 (52.32)
30	2.26 (57.40)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)
64	3.96 (100.58)

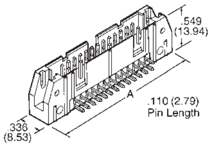

Lock Ejector Hooks, two required per connector, sold separately.

No. of Con-tacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
Right-Angle Pin Headers without Latches						
16	30µ”	.110 (2.79)	AHR16K-ND	2.46	2.22	102160-3
26	30µ”	.110 (2.79)	AHR26K-ND	3.05	2.75	102160-6
34	30µ”	.155 (3.94)	AHZ34K-ND	5.95	5.36	102162-8
60	15µ”	.110 (2.79)	AHR60G-ND	10.14	9.13	1-102159-1
Right-Angle Pin Headers without Latches RoHS Compliant						
10	15µ”	.110 (2.79)	AHR10H-ND	1.14	1.03	5102159-1
	30µ”	.110 (2.79)	AHR10L-ND	1.62	1.46	5102160-1
14	15µ”	.110 (2.79)	AHR14H-ND	1.47	1.33	5102159-2
	15µ”	.155 (3.94)	AHZ14H-ND	3.89	3.51	5102161-2
16	15µ”	.110 (2.79)	AHR16H-ND	2.20	1.99	5102159-3
	30µ”	.110 (2.79)	AHR16L-ND	2.72	2.46	5102160-3
20	15µ”	.110 (2.79)	AHR20H-ND	2.14	1.93	5102159-4
	30µ”	.110 (2.79)	AHR20L-ND	2.90	2.61	5102160-4
	15µ”	.155 (3.94)	AHZ20H-ND	4.34	3.91	5102161-4
24	30µ”	.110 (2.79)	AHR24L-ND	3.36	3.03	5102160-5
	15µ”	.155 (3.94)	AHZ24H-ND	4.00	3.60	5102161-5
26	15µ”	.110 (2.79)	AHR26H-ND	2.61	2.36	5102159-6
	30µ”	.110 (2.79)	AHR26L-ND	2.85	2.57	5102160-6
30	15µ”	.110 (2.79)	AHR30H-ND	2.95	2.66	5102159-7
	15µ”	.155 (3.94)	AHZ30H-ND	4.75	4.28	5102161-7
	30µ”	.155 (3.94)	AHZ30L-ND	4.87	4.38	5102162-7
34	15µ”	.110 (2.79)	AHR34H-ND	3.23	2.91	5102159-8
	30µ”	.110 (2.79)	AHR34L-ND	3.42	3.08	5102160-8
	15µ”	.155 (3.94)	AHZ34H-ND	5.27	4.75	5102161-8
	30µ”	.155 (3.94)	AHZ34L-ND	5.40	4.86	5102162-8
40	15µ”	.110 (2.79)	AHR40H-ND	3.71	3.34	5102159-9
	30µ”	.110 (2.79)	AHR40L-ND	3.95	3.56	5102160-9
50	15µ”	.110 (2.79)	AHR50H-ND	4.37	3.94	1-5102159-0
	30µ”	.110 (2.79)	AHR50L-ND	4.77	4.30	1-5102160-0
	30µ”	.155 (3.94)	AHZ50L-ND	5.28	4.76	1-5102162-0
60	15µ”	.110 (2.79)	AHR60H-ND	9.66	8.70	1-5102159-1
	30µ”	.110 (2.79)	AHR60L-ND	6.45	5.81	1-5102160-1
	30µ”	.155 (3.94)	AHZ60L-ND	8.61	7.75	1-5102162-1
64	15µ”	.110 (2.79)	AHR64H-ND	8.61	7.75	1-5102159-2
	30µ”	.110 (2.79)	AHR64L-ND	5.46	4.92	1-5102160-2
	30µ”	.155 (3.94)	AHZ64L-ND	6.36	5.73	1-5102162-2
Headers with Short Latches						
24	15µ”	.110 (2.79)	AHB24G-ND	10.18	9.17	499913-5
	30µ”	.110 (2.79)	AHB24K-ND	10.85	9.77	499345-5
Headers with Short Latches — RoHS Compliant						
10	15µ”	.110 (2.79)	AHB10H-ND	1.76	1.59	5499913-1
	30µ”	.110 (2.79)	AHB10L-ND	4.04	3.64	5499345-1
14	15µ”	.110 (2.79)	AHB14H-ND	2.96	2.66	5499913-2
16	15µ”	.110 (2.79)	AHB16H-ND	3.30	2.98	5499913-3
20	15µ”	.110 (2.79)	AHB20H-ND	5.97	5.38	5499913-4
24	15µ”	.110 (2.79)	AHB24H-ND	7.29	6.56	5499913-5
	30µ”	.110 (2.79)	AHB24L-ND	7.79	7.01	5499345-5
26	15µ”	.110 (2.79)	AHB26H-ND	4.09	3.68	5499913-6
30	15µ”	.110 (2.79)	AHB30H-ND	8.21	7.39	5499913-7
34	15µ”	.110 (2.79)	AHB34H-ND	6.18	5.57	5499913-8
40	15µ”	.110 (2.79)	AHB40H-ND	5.91	5.32	5499913-9
	30µ”	.110 (2.79)	AHB40L-ND	6.42	5.78	5499345-9
50	30µ”	.110 (2.79)	AHB50L-ND	7.83	7.05	1-5499345-0
60	15µ”	.110 (2.79)	AHB60H-ND	12.93	11.64	1-5499913-1
Headers with Long Latches						
34	30µ”	.155 (3.94)	AHT34K-ND	10.78	8.97	102322-8
Headers with Long Latches — RoHS Compliant						
10	15µ”	.110 (2.79)	AHC10H-ND	1.76	1.59	5499786-1
	30µ”	.110 (2.79)	AHC10L-ND	1.95	1.76	5499141-1
	30µ”	.155 (3.94)	AHT10L-ND	2.14	1.93	5102322-1
14	15µ”	.110 (2.79)	AHC14H-ND	2.96	2.66	5499786-2
	30µ”	.110 (2.79)	AHC14L-ND	2.66	2.40	5499141-2
16	30µ”	.110 (2.79)	AHC16L-ND	2.95	2.66	5499141-3
	30µ”	.155 (3.94)	AHT16L-ND	5.35	4.82	5102322-3
20	15µ”	.110 (2.79)	AHC20H-ND	3.28	2.96	5499786-4
	30µ”	.110 (2.79)	AHC20L-ND	5.07	4.56	5499141-4
	30µ”	.155 (3.94)	AHT20L-ND	7.27	6.55	5102322-4
24	15µ”	.110 (2.79)	AHC24H-ND	5.47	4.92	5499786-5
26	15µ”	.110 (2.79)	AHC26H-ND	4.09	3.68	5499786-6
	30µ”	.110 (2.79)	AHC26L-ND	4.52	4.07	5499141-6
	30µ”	.155 (3.94)	AHT26L-ND	5.67	5.11	5102322-6
30	30µ”	.110 (2.79)	AHC30L-ND	12.03	10.83	5499141-7
34	15µ”	.110 (2.79)	AHC34H-ND	5.07	4.57	5499786-8
	30µ”	.110 (2.79)	AHC34L-ND	5.55	5.00	5499141-8
	30µ”	.155 (3.94)	AHT34L-ND	8.43	7.59	5102322-8
40	15µ”	.110 (2.79)	AHC40H-ND	5.91	5.32	5499786-9
	30µ”	.110 (2.79)	AHC40L-ND	6.42	5.78	5499141-9
50	15µ”	.110 (2.79)	AHC50H-ND	7.14	6.43	1-5499786-0
	30µ”	.110 (2.79)	AHC50L-ND	7.83	7.05	1-5499141-0
60	15µ”	.110 (2.79)	AHC60H-ND	14.25	12.83	1-5499786-1
	30µ”	.110 (2.79)	AHC60L-ND	9.12	8.21	1-5499141-1
64	15µ”	.110 (2.79)	AHC64H-ND	8.70	7.83	1-5499786-2
	30µ”	.110 (2.79)	AHC64L-ND	15.06	13.56	1-5499141-2
Lock Ejector Hooks (2 Required per Connector) RoHS Compliant						
Short			ALSN01-ND	.69/2	—	102312-1
Long w/o Push Tabs			ALLN01-ND	.71/2	—	102320-1

Low Profile - 4 Sided Protected Headers .100 x .100 Centers

Specifications:

- .025” (.64mm) Square Posts, .240” (6.10mm) Mating Post Length.
- Material and Finish: Housing and Latches — Black thermo-plastic, 94V-0 rated.
- Contact Finish: 15µ or 30µ gold on post/pin mating end, 100µ-200µ bright tin-lead on termination end, with entire contact underplated 50µ nickel.

Straight-Lead

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
24	1.40 (35.56)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)

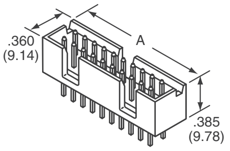

No. of Contacts	Contact Gold Plating	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Shrouded with .150” (3.81mm) End Dimension Double Row - Straight Post					
40	15µ”	A26279-ND	3.04	2.18	103308-8
Shrouded with .150” (3.81mm) End Dimension Double Row - Straight Post — RoHS Compliant					
10	15µ”	A33159-ND	1.06	.76	5103308-1
	30µ”	A33160-ND	.90	.65	5103309-1
	30µ”	A97470-ND†	2.82	2.03	2-1761603-3
14	15µ”	A33161-ND	2.06	1.48	5103308-2
	30µ”	A33162-ND	1.38	.99	5103309-2
	30µ”	A97471-ND†	3.25	2.34	2-1761603-5
16	15µ”	A33163-ND	1.38	.99	5103308-3
	30µ”	A33164-ND	1.53	1.10	5103309-3
	30µ”	A97472-ND†	3.47	2.49	2-1761603-6
20	15µ”	A33165-ND	2.74	1.97	5103308-5
	30µ”	A33166-ND	2.25	1.62	5103309-5
	30µ”	A97473-ND†	3.87	2.78	2-1761603-7
26	15µ”	A33167-ND	1.56	1.12	5103308-6
	30µ”	A97474-ND†	4.47	3.21	2-1761603-9
	30µ”	A97494-ND	2.64	1.90	5103309-6
34	15µ”	A33168-ND	2.03	1.46	5103308-7
	30µ”	A33169-ND	3.04	2.18	5103309-7
	30µ”	A97475-ND†	5.27	3.78	3-1761603-1
40	15µ”	A33170-ND	2.36	1.69	5103308-8
	30µ”	A33171-ND	3.24	2.33	5103309-8
	30µ”	A97476-ND†	5.89	4.23	3-1761603-3
50	15µ”	A33172-ND	3.17	2.28	1-5103308-0
	30µ”	A33173-ND	4.03	2.89	1-5103309-0
	30µ”	A97477-ND†	7.08	5.08	3-1761603-5
60	15µ”	A33174-ND	4.77	3.42	1-5103308-2
Shrouded with .150” (3.81mm) End Dimension High Temperature Housing with Board Retention Feature‡ — RoHS Compliant					
10	15µ”	A33175-ND	1.38	.99	5104338-1
14	15µ”	A97490-ND	1.97	1.42	5104338-2
16	15µ”	A97491-ND	1.83	1.32	5104338-3
20	15µ”	A33176-ND	2.56	1.84	5104338-4
24	15µ”	A97492-ND	2.43	1.75	5104338-5
34	15µ”	A33177-ND	3.18	2.28	5104338-7
40	15µ”	A33178-ND	3.11	2.23	5104338-8
50	15µ”	A97493-ND	4.66	3.34	5104338-9

† Blue ‡ Gray

Right-Angle

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
44	2.50 (63.50)
50	2.80 (71.12)

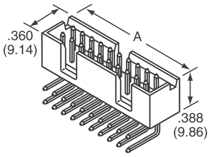

No. of Contacts	Contact Gold Plating	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Shrouded with .150” (3.81mm) End Dimension Double Row - Right-Angle Post — RoHS Compliant					
10	15µ”	A33179-ND	.99	.71	5103310-1
	15µ”	A31150-ND	3.32	2.38	1761604-3
	30µ”	A33180-ND	1.08	.78	5103311-1
	30µ”	A97478-ND†	3.49	2.51	2-1761605-3
14	15µ”	A33181-ND	1.29	.93	5103310-2
	30µ”	A97486-ND	4.29	3.08	5103311-2
	30µ”	A97479-ND†	3.94	2.83	2-1761605-5
16	15µ”	A33182-ND	1.08	.78	5103310-3
	30µ”	A33183-ND	1.59	1.14	5103311-3
	30µ”	A97480-ND†	4.15	2.98	2-1761605-6
20	15µ”	A33184-ND	1.71	1.23	5103310-5
	30µ”	A97487-ND	2.42	1.74	5103311-5
	30µ”	A97481-ND†	4.56	3.27	2-1761605-7
26	15µ”	A33185-ND	2.07	1.49	5103310-6
	30µ”	A97488-ND	3.37	2.42	5103311-6
	30µ”	A97482-ND†	5.19	3.72	2-1761605-9
34	15µ”	A33186-ND	2.64	1.90	5103310-7
	30µ”	A97489-ND	3.21	2.31	5103311-7
	30µ”	A97483-ND†	6.12	4.39	3-1761605-1
40	15µ”	A33187-ND	2.97	2.13	5103310-8
	30µ”	A33188-ND	3.11	2.23	5103311-8
	30µ”	A97484-ND†	10.24	7.34	3-1761605-3
44	30µ”	A98553-ND ***NEW!***	3.87	2.78	5103311-9
50	15µ”	A33189-ND	4.63	3.32	1-5103310-0
	30µ”	A97485-ND†	8.75	6.28	3-1761605-5

† Blue

Right-Angle with Latches

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)

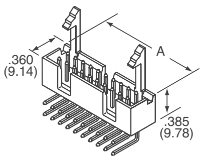

No. of Con-tacts	Contact Gold Plating	Latching Height Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Shrouded with Ejection Latches and .150” (3.81mm) End Dimension Double Row - Right Angle Post						
26	30µ”	.585 (14.9)	A26306-ND	5.45	3.91	104130-5
Shrouded with Ejection Latches and .150” (3.81mm) End Dimension Double Row - Right Angle Post RoHS Compliant						
10	30µ”	.585 (14.9)	A31176-ND	3.43	2.46	1761607-3
	30µ”	.435 (11.0)	A31192-ND	3.53	2.54	1761609-3
14	30µ”	.585 (14.9)	A31177-ND	3.86	2.77	1761607-5
16	30µ”	.585 (14.9)	A31178-ND	4.07	2.92	1761607-6
20	30µ”	.585 (14.9)	A31179-ND	4.52	3.24	1761607-7
26	30µ”	.585 (14.9)	A31180-ND	5.09	3.65	1761607-9
	30µ”	.435 (11.0)	A31193-ND	5.24	3.76	1761609-9
34	30µ”	.585 (14.9)	A31181-ND	5.95	4.27	1-1761607-1
40	30µ”	.585 (14.9)	A33190-ND	5.82	4.18	1-1761607-3
	30µ”	.435 (11.0)	A31194-ND	6.89	4.94	1-1761609-3
50	30µ”	.585 (14.9)	A31182-ND	7.72	5.54	1-1761607-5
	30µ”	.435 (11.0)	A31195-ND	7.57	5.43	1-1761609-5

Straight-Lead with Latches

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)

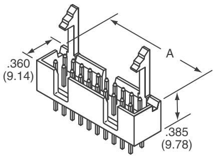

No. of Con-tacts	Contact Gold Plating	Latching Height Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Shrouded with Ejection Latches and .150” (3.81mm) End Dimension Double Row - Straight Post						
20	30µ”	.435 (11.0)	A26320-ND	4.74	3.40	104313-4
Shrouded with Ejection Latches and .150” (3.81mm) End Dimension Double Row - Straight Post RoHS Compliant						
10	30µ”	.585 (14.9)	A31167-ND	3.33	2.39	1761606-3
	30µ”	.435 (11.0)	A31183-ND	3.39	2.43	1761608-3
14	30µ”	.585 (14.9)	A31168-ND	3.71	2.67	1761606-5
	30µ”	.435 (11.0)	A31184-ND	3.79	2.72	1761608-5
16	30µ”	.585 (14.9)	A31169-ND	3.90	2.80	1761606-6
	30µ”	.435 (11.0)	A31185-ND	3.98	2.86	1761608-6
20	30µ”	.585 (14.9)	A31170-ND	4.31	3.09	1761606-7
	30µ”	.435 (11.0)	A31186-ND	4.39	3.15	1761608-7
26	30µ”	.585 (14.9)	A31171-ND	4.82	3.46	1761606-9
	30µ”	.435 (11.0)	A31187-ND	4.97	3.56	1761608-9
34	30µ”	.585 (14.9)	A31172-ND	5.60	4.02	1-1761606-1
	30µ”	.435 (11.0)	A31188-ND	5.70	4.09	1-1761608-1
40	30µ”	.585 (14.9)	A31173-ND	6.34	4.55	1-1761606-3
	30µ”	.435 (11.0)	A31189-ND	6.46	4.64	1-1761608-3
50	30µ”	.585 (14.9)	A31174-ND	7.28	5.23	1-1761606-5
	30µ”	.435 (11.0)	A31190-ND	7.42	5.32	1-1761608-5
60	30µ”	.585 (14.9)	A31175-ND	8.23	5.90	1-1761606-6
	30µ”	.435 (11.0)	A31191-ND	8.38	6.01	1-1761608-6

3M D-Subminiature Connectors

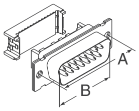

Plug

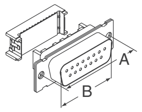

Receptacle

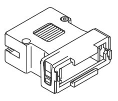

Backshell

Wire Accommodation: 26 and 28AWG solid or stranded
Order strain reliefs separately.

Physical Specifications:
- Contact Material: Beryllium copper plating
- Underplate: 50µ" nickel, QQ-N-290, Class 2
- Wiping Area: 30µ" gold, MIL-G-45204, Type II, Grade C
- Shell Material: Steel
- Plating: Tin
- Strain Relief Material: Stainless steel, .016" (.41mm) thick
- Marking: 3M logo and contact position number

Electrical Specifications:
- Current Rating: 1A
- Insulation Resistance: >1x10⁹Ω @ 500VDC
- Withstanding Voltage: 1000VRMS @ sea level

Environmental Specifications:
- Temperature Rating: -55°C ~ 105°C
- UL File No.: E68080; CSA File No.: LR-40971

No. of Cont.	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	3M Part No.
Plugs with flange, thru-hole style, Male						
9	.98 (24.89)	.67 (17.02)	MMR09K-ND	5.01	42.18	8209-6000
15	1.31 (33.27)	1.00 (25.40)	MMR15K-ND	5.70	47.95	8215-6000
25	1.85 (46.99)	1.54 (39.12)	MMR25K-ND	6.47	54.43	8225-6000
37	2.50 (63.50)	2.18 (55.37)	MMR37K-ND	8.36	70.35	8237-6000
Plugs with 4-40 threaded insert, Male						
9	.98 (24.89)	.67 (17.02)	MML09K-ND	5.20	43.75	8209-6003
15	1.31 (33.27)	1.00 (25.40)	MML15K-ND	6.82	57.40	8215-6003
25	1.85 (46.99)	1.54 (39.12)	MML25K-ND	7.36	61.95	8225-6003
37	2.50 (63.50)	2.18 (55.37)	MML37K-ND	9.13	76.83	8237-6003
50	2.40 (60.96)	2.074 (52.68)	MML50K-ND	18.20	153.13	8250-6005
Receptacles with flange, thru-hole style, Female						
9	.98 (24.89)	.67 (17.02)	MFR09K-ND	4.28	36.05	8309-6000
15	1.31 (33.27)	.97 (24.64)	MFR15K-ND	4.91	41.30	8315-6000
25	1.85 (46.99)	1.51 (38.35)	MFR25K-ND	6.57	55.30	8325-6000
37	2.50 (63.50)	2.16 (54.86)	MFR37K-ND	8.49	71.40	8337-6000
Receptacles with 4-40 threaded insert, Female						
9	.98 (24.89)	.67 (17.02)	MFL09K-ND	5.32	44.80	8309-6003
15	1.31 (33.27)	.97 (24.64)	MFL15K-ND	7.03	59.15	8315-6003
25	1.85 (46.99)	1.51 (38.35)	MFL25K-ND	7.47	62.83	8325-6003
37	2.50 (63.50)	2.16 (54.86)	MFL37K-ND	9.13	76.83	8337-6003
50	2.40 (60.96)	2.068 (52.53)	MFL50K-ND	18.20	153.13	8350-6005
Backshells						
9	—	—	MDBF09-ND	3.58	30.10	3485-2100F
15	—	—	MDBF15-ND	3.58	30.10	3485-2200F
25	—	—	MDBF25-ND	3.58	30.10	3485-2300F
37	—	—	MDBF37-ND	4.18	35.18	3485-2400F
50	—	—	MDBF50-ND	3.58	30.10	3485-2500F
Strain Relief						
9	—	—	MDSR09-ND	.25	2.10	3448-8D09A
15	—	—	MDSR15-ND	.33	2.80	3448-8D15A
25	—	—	MDSR25-ND	.33	2.80	3448-8D25A
37	—	—	MDSR37-ND	.33	2.80	3448-8D37A
50	—	—	MDSR50-ND	.62	5.25	3448-8D50A

D-Sub Cable Assemblies

Single Ended Male

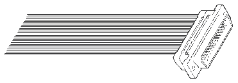

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7PXK-0906R-ND	11.60	101.73
	Au 30µ"	6 (1.83)	GR	M7PXK-0906J-ND	10.13	88.81
	Au 30µ"	10 (3.05)	MC	M7PXK-0910R-ND	13.85	121.49
	Au 30µ"	10 (3.05)	GR	M7PXK-0910J-ND	11.40	99.94
15	Au 30µ"	6 (1.83)	MC	M7PXK-1506R-ND	14.83	130.05
	Au 30µ"	6 (1.83)	GR	M7PXK-1506J-ND	12.18	106.80
	Au 30µ"	10 (3.05)	MC	M7PXK-1510R-ND	18.43	161.65
	Au 30µ"	10 (3.05)	GR	M7PXK-1510J-ND	14.01	122.89
25	Au 30µ"	6 (1.83)	MC	M7PXK-2506R-ND	19.41	170.22
	Au 30µ"	6 (1.83)	GR	M7PXK-2506J-ND	15.10	132.43
	Au 30µ"	10 (3.05)	MC	M7PXK-2510R-ND	25.27	221.58
	Au 30µ"	10 (3.05)	GR	M7PXK-2510J-ND	18.09	158.59
37	Au 30µ"	6 (1.83)	MC	M7PXK-3706R-ND	26.09	228.75
	Au 30µ"	6 (1.83)	GR	M7PXK-3706J-ND	19.95	174.98
	Au 30µ"	10 (3.05)	MC	M7PXK-3710R-ND	34.42	301.82
	Au 30µ"	10 (3.05)	GR	M7PXK-3710J-ND	24.20	212.21

Also available in the following configurations:
M7NXK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7VXK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

Single Ended Female

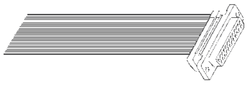

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7SXK-0906R-ND	10.46	91.76
	Au 30µ"	6 (1.83)	GR	M7SXK-0906J-ND	8.99	78.83
	Au 30µ"	10 (3.05)	MC	M7SXK-0910R-ND	12.72	111.51
	Au 30µ"	10 (3.05)	GR	M7SXK-0910J-ND	10.26	89.97
15	Au 30µ"	6 (1.83)	MC	M7SXK-1506R-ND	13.60	119.22
	Au 30µ"	6 (1.83)	GR	M7SXK-1506J-ND	10.94	95.97
	Au 30µ"	10 (3.05)	MC	M7SXK-1510R-ND	17.20	150.82
	Au 30µ"	10 (3.05)	GR	M7SXK-1510J-ND	12.78	112.06
25	Au 30µ"	6 (1.83)	MC	M7SXK-2506R-ND	19.57	171.65
	Au 30µ"	6 (1.83)	GR	M7SXK-2506J-ND	15.26	133.86
	Au 30µ"	10 (3.05)	MC	M7SXK-2510R-ND	25.43	223.00
	Au 30µ"	10 (3.05)	GR	M7SXK-2510J-ND	18.25	160.02
37	Au 30µ"	6 (1.83)	MC	M7SXK-3706R-ND	26.28	230.46
	Au 30µ"	6 (1.83)	GR	M7SXK-3706J-ND	20.15	176.69
	Au 30µ"	10 (3.05)	MC	M7SXK-3710R-ND	34.61	303.53
	Au 30µ"	10 (3.05)	GR	M7SXK-3710J-ND	24.39	213.92

Also available in the following configurations:
M7OXK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7WXK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

Male to Male

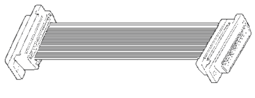

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7PPK-0906R-ND	19.82	173.84
	Au 30µ"	6 (1.83)	GR	M7PPK-0906J-ND	18.35	160.91
	Au 30µ"	10 (3.05)	MC	M7PPK-0910R-ND	22.08	193.59
	Au 30µ"	10 (3.05)	GR	M7PPK-0910J-ND	19.62	172.05
15	Au 30µ"	6 (1.83)	MC	M7PPK-1506R-ND	24.26	212.70
	Au 30µ"	6 (1.83)	GR	M7PPK-1506J-ND	21.60	189.45
	Au 30µ"	10 (3.05)	MC	M7PPK-1510R-ND	27.86	244.30
	Au 30µ"	10 (3.05)	GR	M7PPK-1510J-ND	23.44	205.54
25	Au 30µ"	6 (1.83)	MC	M7PPK-2506R-ND	30.04	263.42
	Au 30µ"	6 (1.83)	GR	M7PPK-2506J-ND	25.73	225.63
	Au 30µ"	10 (3.05)	MC	M7PPK-2510R-ND	35.90	314.77
	Au 30µ"	10 (3.05)	GR	M7PPK-2510J-ND	28.71	251.79
37	Au 30µ"	6 (1.83)	MC	M7PPK-3706R-ND	39.67	347.88
	Au 30µ"	6 (1.83)	GR	M7PPK-3706J-ND	33.54	294.11
	Au 30µ"	10 (3.05)	MC	M7PPK-3710R-ND	48.00	420.95
	Au 30µ"	10 (3.05)	GR	M7PPK-3710J-ND	37.78	331.34

Also available in the following configurations:
M7NNK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7VVK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

Female to Female

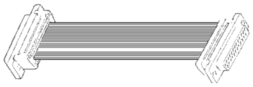

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7SSK-0906R-ND	17.55	153.89
	Au 30µ"	6 (1.83)	GR	M7SSK-0906J-ND	16.07	140.96
	Au 30µ"	10 (3.05)	MC	M7SSK-0910R-ND	19.80	173.64
	Au 30µ"	10 (3.05)	GR	M7SSK-0910J-ND	17.34	152.10
15	Au 30µ"	6 (1.83)	MC	M7SSK-1506R-ND	21.79	191.04
	Au 30µ"	6 (1.83)	GR	M7SSK-1506J-ND	19.13	167.79
	Au 30µ"	10 (3.05)	MC	M7SSK-1510R-ND	25.39	222.64
	Au 30µ"	10 (3.05)	GR	M7SSK-1510J-ND	20.97	183.88
25	Au 30µ"	6 (1.83)	MC	M7SSK-2506R-ND	30.36	266.27
	Au 30µ"	6 (1.83)	GR	M7SSK-2506J-ND	26.05	228.48
	Au 30µ"	10 (3.05)	MC	M7SSK-2510R-ND	36.22	317.62
	Au 30µ"	10 (3.05)	GR	M7SSK-2510J-ND	29.04	254.64
37	Au 30µ"	6 (1.83)	MC	M7SSK-3706R-ND	40.06	351.30
	Au 30µ"	6 (1.83)	GR	M7SSK-3706J-ND	33.93	297.53
	Au 30µ"	10 (3.05)	MC	M7SSK-3710R-ND	48.39	424.37
	Au 30µ"	10 (3.05)	GR	M7SSK-3710J-ND	38.17	334.76

Also available in the following configurations:
M7OOK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7WWK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

Male to Female

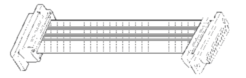

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7PSK-0906R-ND	18.69	163.86
	Au 30µ"	6 (1.83)	GR	M7PSK-0906J-ND	17.21	150.94
	Au 30µ"	10 (3.05)	MC	M7PSK-0910R-ND	20.94	183.62
	Au 30µ"	10 (3.05)	GR	M7PSK-0910J-ND	18.48	162.07
15	Au 30µ"	6 (1.83)	MC	M7PSK-1506R-ND	23.02	201.87
	Au 30µ"	6 (1.83)	GR	M7PSK-1506J-ND	20.37	178.62
	Au 30µ"	10 (3.05)	MC	M7PSK-1510R-ND	26.62	233.47
	Au 30µ"	10 (3.05)	GR	M7PSK-1510J-ND	22.20	194.71
25	Au 30µ"	6 (1.83)	MC	M7PSK-2506R-ND	30.20	264.84
	Au 30µ"	6 (1.83)	GR	M7PSK-2506J-ND	25.89	227.05
	Au 30µ"	10 (3.05)	MC	M7PSK-2510R-ND	36.06	316.20
	Au 30µ"	10 (3.05)	GR	M7PSK-2510J-ND	28.88	253.21
37	Au 30µ"	6 (1.83)	MC	M7PSK-3706R-ND	39.87	349.59
	Au 30µ"	6 (1.83)	GR	M7PSK-3706J-ND	33.73	295.82
	Au 30µ"	10 (3.05)	MC	M7PSK-3710R-ND	48.20	422.66
	Au 30µ"	10 (3.05)	GR	M7PSK-3710J-ND	37.98	333.05

Also available in the following configurations:
M7NOK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7VWK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

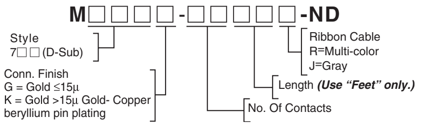

3M

.100” x .100” (2.54mm x 2.54mm) Socket Connectors

RoHS COMPLIANT

Wire Accommodation: 26, 28, 30AWG solid or stranded.

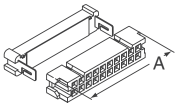

Physical Specifications: • Insulation Material: Glass reinforced polyester • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Beryllium copper • Plating: 30μ” gold • Wire Accommodation: 26 and 28AWG solid or stranded, 30AWG solid • Marking: 3M logo, part identification number and orientation triangle **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level **Environmental Specifications:** • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971

No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
Polarizing Slots (Open End)					
10	.68 (17.27)	MSC10K-ND	2.00	16.80	3473-6000
14	.88 (22.35)	MSC14K-ND	2.41	20.30	3385-6000
16	.98 (24.89)	MSC16K-ND	2.64	22.23	3452-6000
20	1.18 (29.97)	MSC20K-ND	2.91	24.50	3421-6000
24	1.38 (35.05)	MSC24K-ND	3.49	29.40	3626-6000
26	1.48 (37.59)	MSC26K-ND	3.76	31.68	3399-6000
30	1.68 (42.67)	MSC30K-ND	4.33	36.40	3419-6000
34	1.88 (47.75)	MSC34K-ND	4.91	41.30	3414-6000
40	2.18 (55.37)	MSC40K-ND	5.76	48.48	3417-6000
50	2.68 (68.07)	MSC50K-ND	7.20	60.55	3425-6000
60	3.18 (80.77)	MSC60K-ND	8.92	75.08	3334-6000
Center-Bumped Polarizing (Open End)					
10	.68 (17.27)	MKC10K-ND	2.00	16.80	3473-6600
14	.88 (22.35)	MKC14K-ND	2.41	20.30	3385-6600
16	.98 (24.89)	MKC16K-ND	2.64	22.23	3452-6600
20	1.18 (29.97)	MKC20K-ND	2.91	24.50	3421-6600
24	1.38 (35.05)	MKC24K-ND	3.49	29.40	3626-6600
26	1.48 (37.59)	MKC26K-ND	3.76	31.68	3399-6600
30	1.68 (42.67)	MKC30K-ND	4.33	36.40	3419-6600
34	1.88 (47.75)	MKC34K-ND	4.91	41.30	3414-6600
40	2.18 (55.37)	MKC40K-ND	5.76	48.48	3417-6600
50	2.68 (68.07)	MKC50K-ND	7.20	60.55	3425-6600
60	3.18 (80.77)	MKC60K-ND	8.92	75.08	3334-6600
Center-Bumped Polarizing (Closed End)					
10	.68 (17.27)	MSD10K-ND	2.12	17.85	3473-7600
14	.88 (22.35)	MSD14K-ND	2.66	22.40	3385-7600
16	.98 (24.89)	MSD16K-ND	2.79	23.45	3452-7600
20	1.18 (29.97)	MSD20K-ND	3.06	25.73	3421-7600
24	1.38 (35.05)	MSD24K-ND	3.66	30.80	3626-7600
26	1.48 (37.59)	MSD26K-ND	3.97	33.43	3399-7600
30	1.68 (42.67)	MSD30K-ND	4.56	38.33	3419-7600
34	1.88 (47.75)	MSD34K-ND	5.12	43.05	3414-7600
40	2.18 (55.37)	MSD40K-ND	6.01	50.58	3417-7600
50	2.68 (68.07)	MSD50K-ND	7.49	63.00	3425-7600
60	3.18 (80.77)	MSD60K-ND	9.26	77.88	3334-7600
Cable Strain Relief/Stabilizer					
10	—	MSSR10-ND	.25	2.10	3448-3010
14	—	MSSR14-ND	.25	2.10	3448-3014
16	—	MSSR16-ND	.25	2.10	3448-3016
20	—	MSSR20-ND	.25	2.10	3448-3020
24	—	MSSR24-ND	.25	2.10	3448-3024
26	—	MSSR26-ND	.25	2.10	3448-3026
30	—	MSSR30-ND	.25	2.10	3448-3030
34	—	MSSR34-ND	.25	2.10	3448-3034
40	—	MSSR40-ND	.25	2.10	3448-3040
50	—	MSSR50-ND	.25	2.10	3448-3050
60	—	MSSR60-ND	.25	2.10	3448-3060

3M

Series 89, .100” x .100” (2.54mm x 2.54mm) Socket Connectors

RoHS COMPLIANT

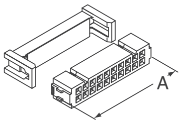

These high-quality, standard-performance IDC sockets minimize applied assembly costs without sacrificing reliability. The Series 89 IDC socket is part of a new line of standard-performance interconnects specifically designed to help electronic equipment manufacturers hold down applied assembly costs. These interconnects also offer the quality and reliability you’d expect from 3M. They have been engineered with a “systems” approach that has a positive impact on your process and product costs. **Physical Specifications:** • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Marking: Molded Figures: 3M logo and orientation triangle • Pins: Phosphor bronze • Contact Plating: Wipe Area: 30μ” gold, MIL-G-45204, Type II, Grade C • Underplate: 100μ” nickel, QQ-N-290, Class 2 • Wire Accommodation: 28AWG stranded **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ Sea Level **Environmental Specifications:** • Operating Temperature: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR40971

No. of Contacts	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
IDC Socket Gold					
10	.68 (17.27)	MSC10A-ND	1.09	8.84	89110-0001
14	.88 (22.35)	MSC14A-ND	1.12	9.12	89114-0001
16	.98 (24.89)	MSC16A-ND	1.16	9.41	89116-0001
20	1.18 (29.97)	MSC20A-ND	1.26	10.26	89120-0001
24	1.38 (35.05)	MSC24A-ND	1.40	11.40	89124-0001
26	1.48 (37.59)	MSC26A-ND	1.44	11.69	89126-0001
30	1.68 (42.67)	MSC30A-ND	1.58	12.83	89130-0001
34	1.88 (47.75)	MSC34A-ND	1.61	13.11	89134-0001
40	2.18 (55.37)	MSC40A-ND	2.17	17.67	89140-0001
50	2.68 (68.07)	MSC50A-ND	2.35	19.10	89150-0001
60	3.18 (80.77)	MSC60A-ND	2.42	19.67	89160-0001
IDC Socket Gold, Polarizing					
10	.68 (17.27)	MKC10A-ND	1.09	8.84	89110-0101
14	.88 (22.35)	MKC14A-ND	1.12	9.12	89114-0101
16	.98 (24.89)	MKC16A-ND	1.16	9.41	89116-0101
20	1.18 (29.97)	MKC20A-ND	1.26	10.26	89120-0101
24	1.38 (35.05)	MKC24A-ND	1.40	11.40	89124-0101
26	1.48 (37.59)	MKC26A-ND	1.44	11.69	89126-0101
30	1.68 (42.67)	MKC30A-ND	1.58	12.83	89130-0101
34	1.88 (47.75)	MKC34A-ND	1.61	13.11	89134-0101
40	2.18 (55.37)	MKC40A-ND	2.17	17.67	89140-0101
50	2.68 (68.07)	MKC50A-ND	2.35	19.10	89150-0101
60	3.18 (80.77)	MKC60A-ND	2.42	19.67	89160-0101
Strain Relief					
10	—	MKSR10-ND	.28	2.28	3448-89110
14	—	MKSR14-ND	.28	2.28	3448-89114
16	—	MKSR16-ND	.28	2.28	3448-89116
20	—	MKSR20-ND	.28	2.28	3448-89120
24	—	MKSR24-ND	.28	2.28	3448-89124
26	—	MKSR26-ND	.28	2.28	3448-89126
30	—	MKSR30-ND	.28	2.28	3448-89130
34	—	MKSR34-ND	.28	2.28	3448-89134
40	—	MKSR40-ND	.28	2.28	3448-89140
50	—	MKSR50-ND	.28	2.28	3448-89150
60	—	MKSR60-ND	.28	2.28	3448-89160

3M

.100” x .100” (2.54mm x 2.54mm) Plug Connectors

RoHS COMPLIANT

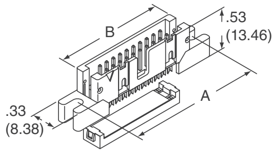

Physical Specifications: • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Flat Cable Connectors: Beryllium copper • Latch Eject Headers: Copper alloy • Plating: 30μ” gold • Wire Accommodation: 26 and 28AWG solid or stranded, 30AWG solid **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level **Environmental Specifications:** • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971

No. of Cont.	Dimension – Inch (mm) A	Dimension – Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
With Slotted Mounting Flanges						
10	1.20 (30.48)	.90 (22.86)	MPL10K-ND	2.95	24.85	4610-6050
14	1.40 (35.56)	1.10 (27.94)	MPL14K-ND	4.10	34.48	4614-6000
16	1.50 (38.10)	1.20 (30.48)	MPL16K-ND	4.64	39.03	4616-6000
20	1.70 (43.18)	1.40 (35.56)	MPL20K-ND	5.41	45.50	4620-6000
24	1.90 (48.26)	1.60 (40.64)	MPL24K-ND	5.95	50.05	4624-6000
26	2.00 (50.80)	1.70 (43.18)	MPL26K-ND	6.16	51.80	4626-6000
30	2.20 (55.88)	1.90 (48.26)	MPL30K-ND	6.76	56.88	4630-6000
34	2.40 (60.96)	2.10 (53.34)	MPL34K-ND	7.63	64.23	4634-6000
36	2.50 (63.50)	2.20 (55.88)	MPL36K-ND	8.07	67.90	4636-6000
40	2.70 (68.58)	2.40 (60.96)	MPL40K-ND	8.47	71.23	4640-6000
50	3.20 (81.28)	2.90 (73.66)	MPL50K-ND	9.17	77.18	4650-6000
60	3.70 (93.98)	3.40 (86.36)	MPL60K-ND	10.82	91.00	4660-6000
64	3.90 (99.06)	3.60 (91.44)	MPL64K-ND	11.54	97.13	4664-6000
Without Mounting Flanges						
10	1.20 (30.48)	.90 (22.86)	MPK10K-ND	2.95	24.85	4610-6051
14	1.40 (35.56)	1.10 (27.94)	MPK14K-ND	4.10	34.48	4614-6001
16	1.50 (38.10)	1.20 (30.48)	MPK16K-ND	4.64	39.03	4616-6001
20	1.70 (43.18)	1.40 (35.56)	MPK20K-ND	5.41	45.50	4620-6001
24	1.90 (48.26)	1.60 (40.64)	MPK24K-ND	5.95	50.05	4624-6001
26	2.00 (50.80)	1.70 (43.18)	MPK26K-ND	6.16	51.80	4626-6001
30	2.20 (55.88)	1.90 (48.26)	MPK30K-ND	6.76	56.88	4630-6001
34	2.40 (60.96)	2.10 (53.34)	MPK34K-ND	7.63	64.23	4634-6001
36	2.50 (63.50)	2.20 (55.88)	MPK36K-ND	8.07	67.90	4636-6001
40	2.70 (68.58)	2.40 (60.96)	MPK40K-ND	8.47	71.23	4640-6001
50	3.20 (81.28)	2.90 (73.66)	MPK50K-ND	9.17	77.18	4650-6001
60	3.70 (93.98)	3.40 (86.36)	MPK60K-ND	10.82	91.00	4660-6001
64	3.90 (99.06)	3.60 (91.44)	MPK64K-ND	11.54	97.13	4664-6001
Strain Reliefs						
10	—	—	MPSR10-ND	.58	4.90	3448-4610
14	—	—	MPSR14-ND	.69	5.78	3448-4614
16	—	—	MPSR16-ND	.69	5.78	3448-4616
20	—	—	MPSR20-ND	.69	5.78	3448-4620
24	—	—	MPSR24-ND	.69	5.78	3448-4624
26	—	—	MPSR26-ND	.69	5.78	3448-4626
30	—	—	MPSR30-ND	.69	5.78	3448-4630
34	—	—	MPSR34-ND	.69	5.78	3448-4634
36	—	—	MPSR36-ND	.69	5.78	3448-4636
40	—	—	MPSR40-ND	.69	5.78	3448-4640
50	—	—	MPSR50-ND	.69	5.78	3448-4650
60	—	—	MPSR60-ND	.69	5.78	3448-4660
64	—	—	MPSR64-ND	.69	5.78	3448-4664
Lock Eject. Hooks (Short)			MDLKS1-ND	.29/2	1.23	3505-16
Lock Eject. Hooks (Long)			MDLKS2-ND	.33/2	1.40	3505-17

3M

.100” (2.54mm) Card Edge Connectors

RoHS COMPLIANT

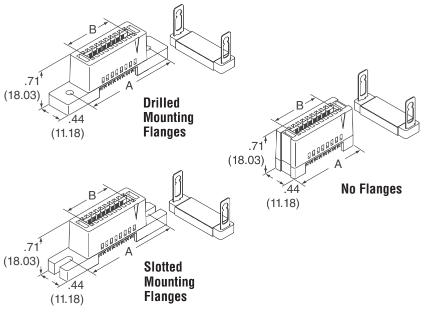

Physical Specifications: • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Beryllium copper • Plating: 30μ” gold • Marking: 3M logo and part identification number

Electrical Specifications: • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level

Environmental Specifications: • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971 • Wire Accommodation: 26AWG solid or stranded, 28AWG solid or stranded, 30AWG solid

Order strain reliefs separately.

No. of Cont.	Dimension – Inch (mm) A	Dimension – Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
With Drilled Mounting Flanges						
10	1.40 (35.56)	.612 (15.54)	MCF10K-ND	5.10	42.88	3358-0000
16	1.70 (43.18)	.912 (23.16)	MCF16K-ND	6.26	52.68	3368-0000
20	1.90 (48.26)	1.112 (28.24)	MCF20K-ND	6.64	55.83	3461-0000
26	2.20 (55.88)	1.412 (35.86)	MCF26K-ND	8.05	67.73	3462-0000
34	2.60 (66.04)	1.812 (46.02)	MCF34K-ND	8.57	72.10	3463-0000
40	2.90 (73.66)	2.112 (53.64)	MCF40K-ND	9.40	79.10	3464-0000
50	3.40 (86.36)	2.612 (66.34)	MCF50K-ND	11.67	98.18	3415-0000
60	3.90 (99.06)	3.112 (79.04)	MCF60K-ND	13.48	113.40	3666-0000
64	4.10 (104.14)	3.312 (84.12)	MCF64K-ND	13.12	110.43	3403-0000
Without Flanges						
10	.96 (24.38)	.612 (15.54)	MCE10K-ND	5.10	42.88	3358-0001
16	1.26 (32.00)	.912 (23.16)	MCE16K-ND	6.26	52.68	3368-0001
20	1.46 (37.08)	1.112 (28.24)	MCE20K-ND	6.64	55.83	3461-0001
26	1.76 (44.70)	1.412 (35.86)	MCE26K-ND	8.05	67.73	3462-0001
34	2.16 (54.86)	1.812 (46.02)	MCE34K-ND	8.57	72.10	3463-0001
40	2.46 (62.48)	2.112 (53.64)	MCE40K-ND	9.40	79.10	3464-0001
50	2.96 (75.18)	2.612 (66.34)	MCE50K-ND	11.67	98.18	3415-0001
60	3.46 (87.88)	3.112 (79.04)	MCE60K-ND	13.48	113.40	3666-0001
64	3.66 (92.96)	3.312 (84.12)	MCE64K-ND	13.12	110.43	3403-0001
With Slotted Mounting Flanges						
10	1.30 (33.02)	.612 (15.54)	MCS10K-ND	5.10	42.88	3358-0002
16	1.60 (40.64)	.912 (23.16)	MCS16K-ND	6.26	52.68	3368-0002
20	1.80 (45.72)	1.112 (28.24)	MCS20K-ND	6.64	55.83	3461-0002
26	2.10 (53.34)	1.412 (35.86)	MCS26K-ND	8.05	67.73	3462-0002
34	2.50 (63.50)	1.812 (46.02)	MCS34K-ND	8.57	72.10	3463-0002
40	2.80 (71.12)	2.112 (53.64)	MCS40K-ND	9.40	79.10	3464-0002
50	3.30 (83.82)	2.612 (66.34)	MCS50K-ND	11.67	98.18	3415-0002
60	3.80 (96.52)	3.112 (79.04)	MCS60K-ND	13.48	113.40	3666-0002
64	4.00 (101.60)	3.312 (84.12)	MCS64K-ND	13.12	110.43	3403-0002
Strain Reliefs						
10	—	—	MCSR10-ND	1.83	15.40	3448-52
16	—	—	MCSR16-ND	1.83	15.40	3448-53
20	—	—	MCSR20-ND	1.83	15.40	3448-54
26	—	—	MCSR26-ND	1.71	14.35	3448-55
34	—	—	MCSR34-ND	1.46	12.25	3448-56
40	—	—	MCSR40-ND	1.71	14.35	3448-57
50	—	—	MCSR50-ND	1.83	15.40	3448-58
60	—	—	MCSR60-ND	5.41	45.50	3448-31
64	—	—	MCSR64-ND	1.83	15.40	3448-59

3M Termination Jumpers

Single Ended Socket Connector

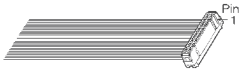

*MC = 3M Multi-Color, GR = 3M Gray

Socket connector without strain relief shown.

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	36 (91.44)	MC	M1AXK-1036R-ND	4.81	42.17
	Au 15µ"	36 (91.44)	MC	M1AXA-1036R-ND	2.70	23.65
	Au 30µ"	36 (91.44)	GR	M1AXK-1036J-ND	4.07	35.71
	Au 15µ"	36 (91.44)	GR	M1AXA-1036J-ND	1.96	17.19
14	Au 30µ"	36 (91.44)	MC	M1AXK-1436R-ND	6.14	53.80
	Au 15µ"	36 (91.44)	MC	M1AXA-1436R-ND	3.41	29.86
	Au 30µ"	36 (91.44)	GR	M1AXK-1436J-ND	4.97	43.62
	Au 15µ"	36 (91.44)	GR	M1AXA-1436J-ND	2.24	19.68
16	Au 30µ"	36 (91.44)	MC	M1AXK-1636R-ND	6.83	59.90
	Au 15µ"	36 (91.44)	MC	M1AXA-1636R-ND	3.78	33.11
	Au 30µ"	36 (91.44)	GR	M1AXK-1636J-ND	5.50	48.27
	Au 15µ"	36 (91.44)	GR	M1AXA-1636J-ND	2.45	21.48
20	Au 30µ"	36 (91.44)	MC	M1AXK-2036R-ND	7.93	69.53
	Au 15µ"	36 (91.44)	MC	M1AXA-2036R-ND	4.55	39.89
	Au 30µ"	36 (91.44)	GR	M1AXK-2036J-ND	6.27	54.99
	Au 15µ"	36 (91.44)	GR	M1AXA-2036J-ND	2.89	25.35
24	Au 30µ"	36 (91.44)	MC	M1AXK-2436R-ND	9.51	83.43
	Au 15µ"	36 (91.44)	MC	M1AXA-2436R-ND	5.35	46.95
	Au 30µ"	36 (91.44)	GR	M1AXK-2436J-ND	7.53	65.99
	Au 15µ"	36 (91.44)	GR	M1AXA-2436J-ND	3.37	29.51
26	Au 30µ"	36 (91.44)	MC	M1AXK-2636R-ND	10.27	90.10
	Au 15µ"	36 (91.44)	MC	M1AXA-2636R-ND	5.72	50.20
	Au 30µ"	36 (91.44)	GR	M1AXK-2636J-ND	8.12	71.20
	Au 15µ"	36 (91.44)	GR	M1AXA-2636J-ND	3.57	31.30
30	Au 30µ"	36 (91.44)	MC	M1AXK-3036R-ND	12.50	109.65
	Au 15µ"	36 (91.44)	MC	M1AXA-3036R-ND	7.21	63.19
	Au 30µ"	36 (91.44)	GR	M1AXK-3036J-ND	9.69	84.94
	Au 15µ"	36 (91.44)	GR	M1AXA-3036J-ND	4.39	38.48
34	Au 30µ"	36 (91.44)	MC	M1AXK-3436R-ND	13.41	117.63
	Au 15µ"	36 (91.44)	MC	M1AXA-3436R-ND	7.24	63.48
	Au 30µ"	36 (91.44)	GR	M1AXK-3436J-ND	10.60	92.92
	Au 15µ"	36 (91.44)	GR	M1AXA-3436J-ND	4.42	38.77
40	Au 30µ"	36 (91.44)	MC	M1AXK-4036R-ND	15.76	138.20
	Au 15µ"	36 (91.44)	MC	M1AXA-4036R-ND	8.77	76.92
	Au 30µ"	36 (91.44)	GR	M1AXK-4036J-ND	12.45	109.14
	Au 15µ"	36 (91.44)	GR	M1AXA-4036J-ND	5.46	47.86
50	Au 30µ"	36 (91.44)	MC	M1AXK-5036R-ND	19.69	172.68
	Au 15µ"	36 (91.44)	MC	M1AXA-5036R-ND	10.62	93.16
	Au 30µ"	36 (91.44)	GR	M1AXK-5036J-ND	15.55	136.34
	Au 15µ"	36 (91.44)	GR	M1AXA-5036J-ND	6.48	56.82
60	Au 30µ"	36 (91.44)	MC	M1AXK-6036R-ND	24.08	211.14
	Au 15µ"	36 (91.44)	MC	M1AXA-6036R-ND	12.38	108.54
	Au 30µ"	36 (91.44)	GR	M1AXK-6036J-ND	19.11	167.54
	Au 15µ"	36 (91.44)	GR	M1AXA-6036J-ND	7.41	64.94

Also available in the following configurations:
M1BX☐-☐☐36☐-ND – Standard Open End with Strain Relief
M1CX☐-☐☐36☐-ND – Standard Open End with Polarizing Key
M1DX☐-☐☐36☐-ND – Std. Open End with Polarizing Key and Strain Relief
M1TXK-☐☐36☐-ND – Standard Closed End with Polarizing Key
M1UXK-☐☐36☐-ND – Std. Closed End with Polarizing Key and Strain Relief

Call for complete part number and pricing!

Single Ended Socket Connector

*Twisted Pair Cable Finished Length is Approximate.

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	40 (101.60)	TW	M1AXK-1040K-ND	5.72	50.18
	Au 15µ"	40 (101.60)	TW	M1AXA-1040K-ND	3.61	31.66
14	Au 30µ"	40 (101.60)	TW	M1AXK-1440K-ND	7.41	65.01
	Au 15µ"	40 (101.60)	TW	M1AXA-1440K-ND	4.68	41.07
16	Au 30µ"	40 (101.60)	TW	M1AXK-1640K-ND	8.29	72.71
	Au 15µ"	40 (101.60)	TW	M1AXA-1640K-ND	5.24	45.92
20	Au 30µ"	40 (101.60)	TW	M1AXK-2040K-ND	9.76	85.55
	Au 15µ"	40 (101.60)	TW	M1AXA-2040K-ND	6.38	55.91
26	Au 30µ"	40 (101.60)	TW	M1AXK-2640K-ND	12.65	110.93
	Au 15µ"	40 (101.60)	TW	M1AXA-2640K-ND	8.10	71.03
34	Au 30µ"	40 (101.60)	TW	M1AXK-3440K-ND	16.52	144.85
	Au 15µ"	40 (101.60)	TW	M1AXA-3440K-ND	10.34	90.70
40	Au 30µ"	40 (101.60)	TW	M1AXK-4040K-ND	19.41	170.24
	Au 15µ"	40 (101.60)	TW	M1AXA-4040K-ND	12.43	108.96
50	Au 30µ"	40 (101.60)	TW	M1AXK-5040K-ND	24.26	212.72
	Au 15µ"	40 (101.60)	TW	M1AXA-5040K-ND	15.19	133.21
60	Au 30µ"	40 (101.60)	TW	M1AXK-6040K-ND	29.56	259.20
	Au 15µ"	40 (101.60)	TW	M1AXA-6040K-ND	17.86	156.60

Also available in the following configurations:
M1BX☐-☐☐40K-ND – Standard Open End with Strain Relief
M1CX☐-☐☐40K-ND – Standard Open End with Polarizing Key
M1DX☐-☐☐40K-ND – Std. Open End with Polarizing Key and Strain Relief
M1TXK-☐☐40K-ND – Standard Closed End with Polarizing Key
M1UXK-☐☐40K-ND – Std. Closed End with Polarizing Key and Strain Relief

Call for complete part number and pricing!

Plug Connector Single Ended

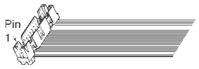

*MC = 3M Multi-Color, GR = 3M Gray

Pin connector without flange, with polarizing key shown.

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	36 (91.44)	MC	M1KXK-1036R-ND	6.30	55.28
	Au 30µ"	36 (91.44)	GR	M1KXK-1036J-ND	5.57	48.82
14	Au 30µ"	36 (91.44)	MC	M1KXK-1436R-ND	8.77	76.88
	Au 30µ"	36 (91.44)	GR	M1KXK-1436J-ND	7.61	66.71
16	Au 30µ"	36 (91.44)	MC	M1KXK-1636R-ND	9.95	87.26
	Au 30µ"	36 (91.44)	GR	M1KXK-1636J-ND	8.62	75.63
20	Au 30µ"	36 (91.44)	MC	M1KXK-2036R-ND	11.83	103.73
	Au 30µ"	36 (91.44)	GR	M1KXK-2036J-ND	10.17	89.19
24	Au 30µ"	36 (91.44)	MC	M1KXK-2436R-ND	13.35	117.06
	Au 30µ"	36 (91.44)	GR	M1KXK-2436J-ND	11.36	99.62
26	Au 30µ"	36 (91.44)	MC	M1KXK-2636R-ND	14.01	122.87
	Au 30µ"	36 (91.44)	GR	M1KXK-2636J-ND	11.86	103.98
30	Au 30µ"	36 (91.44)	MC	M1KXK-3036R-ND	16.31	142.99
	Au 30µ"	36 (91.44)	GR	M1KXK-3036J-ND	13.49	118.28
34	Au 30µ"	36 (91.44)	MC	M1KXK-3436R-ND	17.67	154.96
	Au 30µ"	36 (91.44)	GR	M1KXK-3436J-ND	14.85	130.25
36	Au 30µ"	36 (91.44)	MC	M1KXK-3636R-ND	18.86	165.39
	Au 30µ"	36 (91.44)	GR	M1KXK-3636J-ND	15.79	138.50
40	Au 30µ"	36 (91.44)	MC	M1KXK-4036R-ND	19.98	175.25
	Au 30µ"	36 (91.44)	GR	M1KXK-4036J-ND	16.67	146.19
50	Au 30µ"	36 (91.44)	MC	M1KXK-5036R-ND	22.78	199.75
	Au 30µ"	36 (91.44)	GR	M1KXK-5036J-ND	18.63	163.41
60	Au 30µ"	36 (91.44)	MC	M1KXK-6036R-ND	27.04	237.08
	Au 30µ"	36 (91.44)	GR	M1KXK-6036J-ND	22.06	193.48
64	Au 30µ"	36 (91.44)	MC	M1KXK-6436R-ND	28.85	252.98
	Au 30µ"	36 (91.44)	GR	M1KXK-6436J-ND	23.54	206.47

Also available in the following configurations:
M1RXK-☐☐36☐-ND – Pin Connector without Flange, with Polarizing Key and Strain Relief
M1WXK-☐☐36☐-ND – Pin Connector with Flange, with Polarizing Key
M1YXK-☐☐36☐-ND – Pin Connector with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Plug Connector — Single Ended

*Twisted Pair Cable Finished Length is Approximate.

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	40 (101.60)	TW	M1KXK-1040K-ND	7.22	63.29
14	Au 30µ"	40 (101.60)	TW	M1KXK-1440K-ND	10.05	88.09
16	Au 30µ"	40 (101.60)	TW	M1KXK-1640K-ND	11.41	100.07
20	Au 30µ"	40 (101.60)	TW	M1KXK-2040K-ND	13.66	119.75
26	Au 30µ"	40 (101.60)	TW	M1KXK-2640K-ND	16.39	143.70
34	Au 30µ"	40 (101.60)	TW	M1KXK-3440K-ND	20.78	182.19
40	Au 30µ"	40 (101.60)	TW	M1KXK-4040K-ND	23.64	207.29
50	Au 30µ"	40 (101.60)	TW	M1KXK-5040K-ND	27.35	239.80
60	Au 30µ"	40 (101.60)	TW	M1KXK-6040K-ND	32.52	285.14
64	Au 30µ"	40 (101.60)	TW	M1KXK-6440K-ND	34.69	304.24

Also available in the following configurations:
M1RXK-☐☐40K-ND – Standard Open End without Flange, with Polarizing Key and Strain Relief
M1WXK-☐☐40K-ND – Standard Open End with Flange, with Polarizing Key
M1YXK-☐☐40K-ND – Standard Open End with Flange, with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Socket to Socket Connector

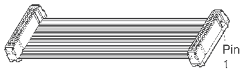

*MC = 3M Multi-Color, GR = 3M Gray

Socket connector without strain relief shown.

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	6 (15.24)	MC	M3AAK-1006R-ND	6.52	57.19
	Au 15µ"	6 (15.24)	MC	M3AAA-1006R-ND	2.30	20.14
	Au 30µ"	6 (15.24)	GR	M3AAK-1006J-ND	6.40	56.11
	Au 15µ"	6 (15.24)	GR	M3AAA-1006J-ND	2.17	19.06
10	Au 30µ"	18 (45.72)	MC	M3AAK-1018R-ND	7.08	62.13
	Au 15µ"	18 (45.72)	MC	M3AAA-1018R-ND	2.86	25.08
	Au 30µ"	18 (45.72)	GR	M3AAK-1018J-ND	6.72	58.90
	Au 15µ"	18 (45.72)	GR	M3AAA-1018J-ND	2.49	21.85
10	Au 30µ"	36 (91.44)	MC	M3AAK-1036R-ND	7.93	69.53
	Au 15µ"	36 (91.44)	MC	M3AAA-1036R-ND	3.70	32.48
	Au 30µ"	36 (91.44)	GR	M3AAK-1036J-ND	7.19	63.07
	Au 15µ"	36 (91.44)	GR	M3AAA-1036J-ND	2.97	26.02
14	Au 30µ"	6 (15.24)	MC	M3AAK-1406R-ND	7.93	69.58
	Au 15µ"	6 (15.24)	MC	M3AAA-1406R-ND	2.47	21.70
	Au 30µ"	6 (15.24)	GR	M3AAK-1406J-ND	7.74	67.88
	Au 15µ"	6 (15.24)	GR	M3AAA-1406J-ND	2.28	20.00
14	Au 30µ"	18 (45.72)	MC	M3AAK-1418R-ND	8.72	76.49
	Au 15µ"	18 (45.72)	MC	M3AAA-1418R-ND	3.26	28.61
	Au 30µ"	18 (45.72)	GR	M3AAK-1418J-ND	8.14	71.40
	Au 15µ"	18 (45.72)	GR	M3AAA-1418J-ND	2.68	23.52
14	Au 30µ"	36 (91.44)	MC	M3AAK-1436R-ND	9.91	86.86
	Au 15µ"	36 (91.44)	MC	M3AAA-1436R-ND	4.45	38.98
	Au 30µ"	36 (91.44)	GR	M3AAK-1436J-ND	8.74	76.68
	Au 15µ"	36 (91.44)	GR	M3AAA-1436J-ND	3.28	28.80
16	Au 30µ"	6 (15.24)	MC	M3AAK-1606R-ND	8.71	76.34
	Au 15µ"	6 (15.24)	MC	M3AAA-1606R-ND	2.60	22.76
	Au 30µ"	6 (15.24)	GR	M3AAK-1606J-ND	8.48	74.40
	Au 15µ"	6 (15.24)	GR	M3AAA-1606J-ND	2.37	20.82
16	Au 30µ"	18 (45.72)	MC	M3AAK-1618R-ND	9.61	84.24
	Au 15µ"	18 (45.72)	MC	M3AAA-1618R-ND	3.50	30.66
	Au 30µ"	18 (45.72)	GR	M3AAK-1618J-ND	8.94	78.43
	Au 15µ"	18 (45.72)	GR	M3AAA-1618J-ND	2.83	24.85
16	Au 30µ"	36 (91.44)	MC	M3AAK-1636R-ND	10.96	96.09
	Au 15µ"	36 (91.44)	MC	M3AAA-1636R-ND	4.85	42.51
	Au 30µ"	36 (91.44)	GR	M3AAK-1636J-ND	9.63	84.46
	Au 15µ"	36 (91.44)	GR	M3AAA-1636J-ND	3.52	30.88
20	Au 30µ"	6 (15.24)	MC	M3AAK-2006R-ND	9.66	84.74
	Au 15µ"	6 (15.24)	MC	M3AAA-2006R-ND	2.90	25.46
	Au 30µ"	6 (15.24)	GR	M3AAK-2006J-ND	9.39	82.32
	Au 15µ"	6 (15.24)	GR	M3AAA-2006J-ND	2.63	23.04
20	Au 30µ"	18 (45.72)	MC	M3AAK-2018R-ND	10.79	94.61
	Au 15µ"	18 (45.72)	MC	M3AAA-2018R-ND	4.03	35.33
	Au 30µ"	18 (45.72)	GR	M3AAK-2018J-ND	9.96	87.35
	Au 15µ"	18 (45.72)	GR	M3AAA-2018J-ND	3.20	28.07
20	Au 30µ"	36 (91.44)	MC	M3AAK-2036R-ND	12.48	109.43
	Au 15µ"	36 (91.44)	MC	M3AAA-2036R-ND	5.72	50.15
	Au 30µ"	36 (91.44)	GR	M3AAK-2036J-ND	10.82	94.89
	Au 15µ"	36 (91.44)	GR	M3AAA-2036J-ND	4.06	35.61
24	Au 30µ"	6 (15.24)	MC	M3AAK-2406R-ND	11.60	101.69
	Au 15µ"	6 (15.24)	MC	M3AAA-2406R-ND	3.28	28.73
	Au 30µ"	6 (15.24)	GR	M3AAK-2406J-ND	11.26	98.78
	Au 15µ"	6 (15.24)	GR	M3AAA-2406J-ND	2.94	25.82
24	Au 30µ"	18 (45.72)	MC	M3AAK-2418R-ND	12.95	113.54
	Au 15µ"	18 (45.72)	MC	M3AAA-2418R-ND	4.63	40.58
	Au 30µ"	18 (45.72)	GR	M3AAK-2418J-ND	11.95	104.82
	Au 15µ"	18 (45.72)	GR	M3AAA-2418J-ND	3.63	31.86
24	Au 30µ"	36 (91.44)	MC	M3AAK-2436R-ND	14.97	131.31
	Au 15µ"	36 (91.44)	MC	M3AAA-2436R-ND	6.65	58.35
	Au 30µ"	36 (91.44)	GR	M3AAK-2436J-ND	12.99	113.87
	Au 15µ"	36 (91.44)	GR	M3AAA-2436J-ND	4.67	40.91
26	Au 30µ"	6 (15.24)	MC	M3AAK-2606R-ND	12.50	109.59
	Au 15µ"	6 (15.24)	MC	M3AAA-2606R-ND	3.40	29.79
	Au 30µ"	6 (15.24)	GR	M3AAK-2606J-ND	12.14	106.44
	Au 15µ"	6 (15.24)	GR	M3AAA-2606J-ND	3.04	26.64
26	Au 30µ"	18 (45.72)	MC	M3AAK-2618R-ND	13.96	122.43
	Au 15µ"	18 (45.72)	MC	M3AAA-2618R-ND	4.86	42.63
	Au 30µ"	18 (45.72)	GR	M3AAK-2618J-ND	12.88	112.98
	Au 15µ"	18 (45.72)	GR	M3AAA-2618J-ND	3.78	33.18

(Continued)

3M Termination Jumpers

Socket to Socket Connector *(Cont.)*

RoHS

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
26	Au 30µ"	36 (91.44)	MC	M3AAK-2636R-ND	16.16	141.68
	Au 15µ"	36 (91.44)	MC	M3AAA-2636R-ND	7.06	61.88
	Au 30µ"	36 (91.44)	GR	M3AAK-2636J-ND	14.00	122.79
	Au 15µ"	36 (91.44)	GR	M3AAA-2636J-ND	4.90	42.99
30	Au 30µ"	6 (15.24)	MC	M3AAK-3006R-ND	14.48	126.95
	Au 15µ"	6 (15.24)	MC	M3AAA-3006R-ND	3.88	34.04
	Au 30µ"	6 (15.24)	GR	M3AAK-3006J-ND	14.01	122.84
	Au 15µ"	6 (15.24)	GR	M3AAA-3006J-ND	3.41	29.93
30	Au 30µ"	18 (45.72)	MC	M3AAK-3018R-ND	16.39	143.74
	Au 15µ"	18 (45.72)	MC	M3AAA-3018R-ND	5.80	50.83
	Au 30µ"	18 (45.72)	GR	M3AAK-3018J-ND	14.98	131.39
	Au 15µ"	18 (45.72)	GR	M3AAA-3018J-ND	4.39	38.48
30	Au 30µ"	36 (91.44)	MC	M3AAK-3036R-ND	19.26	168.93
	Au 15µ"	36 (91.44)	MC	M3AAA-3036R-ND	8.67	76.02
	Au 30µ"	36 (91.44)	GR	M3AAK-3036J-ND	16.45	144.22
	Au 15µ"	36 (91.44)	GR	M3AAA-3036J-ND	5.85	51.31
34	Au 30µ"	6 (15.24)	MC	M3AAK-3406R-ND	16.30	142.91
	Au 15µ"	6 (15.24)	MC	M3AAA-3406R-ND	3.95	34.61
	Au 30µ"	6 (15.24)	GR	M3AAK-3406J-ND	15.83	138.80
	Au 15µ"	6 (15.24)	GR	M3AAA-3406J-ND	3.48	30.50
34	Au 30µ"	18 (45.72)	MC	M3AAK-3418R-ND	18.21	159.70
	Au 15µ"	18 (45.72)	MC	M3AAA-3418R-ND	5.86	51.40
	Au 30µ"	18 (45.72)	GR	M3AAK-3418J-ND	16.80	147.35
	Au 15µ"	18 (45.72)	GR	M3AAA-3418J-ND	4.45	39.05
34	Au 30µ"	36 (91.44)	MC	M3AAK-3436R-ND	21.08	184.89
	Au 15µ"	36 (91.44)	MC	M3AAA-3436R-ND	8.73	76.59
	Au 30µ"	36 (91.44)	GR	M3AAK-3436J-ND	18.27	160.18
	Au 15µ"	36 (91.44)	GR	M3AAA-3436J-ND	5.92	51.88
40	Au 30µ"	6 (15.24)	MC	M3AAK-4006R-ND	19.13	167.77
	Au 15µ"	6 (15.24)	MC	M3AAA-4006R-ND	5.16	45.22
	Au 30µ"	6 (15.24)	GR	M3AAK-4006J-ND	18.58	162.92
	Au 15µ"	6 (15.24)	GR	M3AAA-4006J-ND	4.60	40.37
40	Au 30µ"	18 (45.72)	MC	M3AAK-4018R-ND	21.38	187.52
	Au 15µ"	18 (45.72)	MC	M3AAA-4018R-ND	7.41	64.97
	Au 30µ"	18 (45.72)	GR	M3AAK-4018J-ND	19.73	172.99
	Au 15µ"	18 (45.72)	GR	M3AAA-4018J-ND	5.75	50.44
40	Au 30µ"	36 (91.44)	MC	M3AAK-4036R-ND	24.76	217.14
	Au 15µ"	36 (91.44)	MC	M3AAA-4036R-ND	10.79	94.59
	Au 30µ"	36 (91.44)	GR	M3AAK-4036J-ND	21.45	188.08
	Au 15µ"	36 (91.44)	GR	M3AAA-4036J-ND	7.47	65.53
50	Au 30µ"	6 (15.24)	MC	M3AAK-5006R-ND	23.90	209.56
	Au 15µ"	6 (15.24)	MC	M3AAA-5006R-ND	5.76	50.53
	Au 30µ"	6 (15.24)	GR	M3AAK-5006J-ND	23.21	203.51
	Au 15µ"	6 (15.24)	GR	M3AAA-5006J-ND	5.07	44.48
50	Au 30µ"	18 (45.72)	MC	M3AAK-5018R-ND	26.71	234.25
	Au 15µ"	18 (45.72)	MC	M3AAA-5018R-ND	8.58	75.22
	Au 30µ"	18 (45.72)	GR	M3AAK-5018J-ND	24.64	216.08
	Au 15µ"	18 (45.72)	GR	M3AAA-5018J-ND	6.51	57.05
50	Au 30µ"	36 (91.44)	MC	M3AAK-5036R-ND	30.94	271.29
	Au 15µ"	36 (91.44)	MC	M3AAA-5036R-ND	12.80	112.26
	Au 30µ"	36 (91.44)	GR	M3AAK-5036J-ND	26.79	234.95
	Au 15µ"	36 (91.44)	GR	M3AAA-5036J-ND	8.66	75.92
60	Au 30µ"	6 (15.24)	MC	M3AAK-6006R-ND	29.57	259.34
	Au 15µ"	6 (15.24)	MC	M3AAA-6006R-ND	6.17	54.14
	Au 30µ"	6 (15.24)	GR	M3AAK-6006J-ND	28.75	252.08
	Au 15µ"	6 (15.24)	GR	M3AAA-6006J-ND	5.35	46.88
60	Au 30µ"	18 (45.72)	MC	M3AAK-6018R-ND	32.95	288.97
	Au 15µ"	18 (45.72)	MC	M3AAA-6018R-ND	9.55	83.77
	Au 30µ"	18 (45.72)	GR	M3AAK-6018J-ND	30.47	267.17
	Au 15µ"	18 (45.72)	GR	M3AAA-6018J-ND	7.07	61.97
60	Au 30µ"	36 (91.44)	MC	M3AAK-6036R-ND	38.02	333.41
	Au 15µ"	36 (91.44)	MC	M3AAA-6036R-ND	14.62	128.21
	Au 30µ"	36 (91.44)	GR	M3AAK-6036J-ND	33.05	289.81
	Au 15µ"	36 (91.44)	GR	M3AAA-6036J-ND	9.65	84.61

Also available in the following configurations:

M3BB□-□□□□□-ND – Standard Open End with Strain Relief
M3CC□-□□□□□-ND – Standard Open End with Polarizing Key
M3DD□-□□□□□-ND – Standard Open End with Polarizing Key and Strain Relief
M3TTK-□□□□□-ND – Standard Closed End with Polarizing Key
M3UUK-□□□□□-ND – Standard Closed End with Polarizing Key and Strain Relief

Call for complete part number and pricing!

Socket to Socket Connector

*Twisted Pair Cable Finished Length is Approximate.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ"	20 (50.80)	TW	M3AAK-1020K-ND	7.54	66.13
	Au 15µ"	20 (50.80)	TW	M3AAA-1020K-ND	3.32	29.08
	Au 30µ"	40 (101.60)	TW	M3AAK-1040K-ND	8.84	77.54
	Au 15µ"	40 (101.60)	TW	M3AAA-1040K-ND	4.62	40.49
	Au 30µ"	60 (152.40)	TW	M3AAK-1060K-ND	10.14	88.95
	Au 15µ"	60 (152.40)	TW	M3AAA-1060K-ND	5.92	51.90
14	Au 30µ"	20 (50.80)	TW	M3AAK-1420K-ND	9.36	82.09
	Au 15µ"	20 (50.80)	TW	M3AAA-1420K-ND	3.90	34.21
	Au 30µ"	40 (101.60)	TW	M3AAK-1440K-ND	11.18	98.07
	Au 15µ"	40 (101.60)	TW	M3AAA-1440K-ND	5.72	50.19
	Au 30µ"	60 (152.40)	TW	M3AAK-1460K-ND	13.01	114.04
	Au 15µ"	60 (152.40)	TW	M3AAA-1460K-ND	7.55	66.16
16	Au 30µ"	20 (50.80)	TW	M3AAK-1620K-ND	10.34	90.65
	Au 15µ"	20 (50.80)	TW	M3AAA-1620K-ND	4.23	37.07
	Au 30µ"	40 (101.60)	TW	M3AAK-1640K-ND	12.42	108.91
	Au 15µ"	40 (101.60)	TW	M3AAA-1640K-ND	6.31	55.33
	Au 30µ"	60 (152.40)	TW	M3AAK-1660K-ND	14.50	127.17
	Au 15µ"	60 (152.40)	TW	M3AAA-1660K-ND	8.39	73.59
20	Au 30µ"	20 (50.80)	TW	M3AAK-2020K-ND	11.70	102.62
	Au 15µ"	20 (50.80)	TW	M3AAA-2020K-ND	4.94	43.34
	Au 30µ"	40 (101.60)	TW	M3AAK-2040K-ND	14.31	125.45
	Au 15µ"	40 (101.60)	TW	M3AAA-2040K-ND	7.55	66.17
	Au 30µ"	60 (152.40)	TW	M3AAK-2060K-ND	16.91	148.27
	Au 15µ"	60 (152.40)	TW	M3AAA-2060K-ND	10.15	88.99
26	Au 30µ"	20 (50.80)	TW	M3AAK-2620K-ND	15.15	132.84
	Au 15µ"	20 (50.80)	TW	M3AAA-2620K-ND	6.05	53.04
	Au 30µ"	40 (101.60)	TW	M3AAK-2640K-ND	18.53	162.51
	Au 15µ"	40 (101.60)	TW	M3AAA-2640K-ND	9.43	82.71
	Au 30µ"	60 (152.40)	TW	M3AAK-2660K-ND	21.92	192.18
	Au 15µ"	60 (152.40)	TW	M3AAA-2660K-ND	12.82	112.38
34	Au 30µ"	20 (50.80)	TW	M3AAK-3420K-ND	19.76	173.32
	Au 15µ"	20 (50.80)	TW	M3AAA-3420K-ND	7.41	65.02
	Au 30µ"	40 (101.60)	TW	M3AAK-3440K-ND	24.19	212.11
	Au 15µ"	40 (101.60)	TW	M3AAA-3440K-ND	11.84	103.81
	Au 30µ"	60 (152.40)	TW	M3AAK-3460K-ND	28.61	250.91
	Au 15µ"	60 (152.40)	TW	M3AAA-3460K-ND	16.26	142.61
40	Au 30µ"	20 (50.80)	TW	M3AAK-4020K-ND	23.21	203.54
	Au 15µ"	20 (50.80)	TW	M3AAA-4020K-ND	9.24	80.99
	Au 30µ"	40 (101.60)	TW	M3AAK-4040K-ND	28.42	249.18
	Au 15µ"	40 (101.60)	TW	M3AAA-4040K-ND	14.44	126.63
	Au 30µ"	60 (152.40)	TW	M3AAK-4060K-ND	33.62	294.83
	Au 15µ"	60 (152.40)	TW	M3AAA-4060K-ND	19.65	172.28
50	Au 30µ"	20 (50.80)	TW	M3AAK-5020K-ND	29.00	254.28
	Au 15µ"	20 (50.80)	TW	M3AAA-5020K-ND	10.86	95.25
	Au 30µ"	40 (101.60)	TW	M3AAK-5040K-ND	35.50	311.33
	Au 15µ"	40 (101.60)	TW	M3AAA-5040K-ND	17.37	152.30
	Au 30µ"	60 (152.40)	TW	M3AAK-5060K-ND	42.01	368.39
	Au 15µ"	60 (152.40)	TW	M3AAA-5060K-ND	23.87	209.36
60	Au 30µ"	20 (50.80)	TW	M3AAK-6020K-ND	35.69	313.00
	Au 15µ"	20 (50.80)	TW	M3AAA-6020K-ND	12.29	107.80
	Au 30µ"	40 (101.60)	TW	M3AAK-6040K-ND	43.50	381.47
	Au 15µ"	40 (101.60)	TW	M3AAA-6040K-ND	20.10	176.27
	Au 30µ"	60 (152.40)	TW	M3AAK-6060K-ND	51.31	449.94
	Au 15µ"	60 (152.40)	TW	M3AAA-6060K-ND	27.91	244.74

Also available in the following configurations:

M3BB□-□□□□K-ND – Standard Open End with Strain Relief
M3CC□-□□□□K-ND – Standard Open End with Polarizing Key
M3DD□-□□□□K-ND – Standard Open End with Polarizing Key and Strain Relief
M3TTK-□□□□K-ND – Standard Closed End with Polarizing Key
M3UUK-□□□□K-ND – Std. Closed End with Polarizing Key and Strain Relief

Call for complete part number and pricing!

Plug Connector to Plug Connector

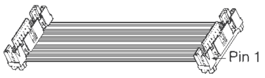

*MC = 3M Multi-Color, GR = 3M Gray

Pin connector without flange, with polarizing key shown.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ"	6 (15.24)	MC	M3KKK-1006R-ND	9.51	83.41
	Au 30µ"	6 (15.24)	GR	M3KKK-1006J-ND	9.39	82.33
	Au 30µ"	18 (45.72)	MC	M3KKK-1018R-ND	10.07	88.35
	Au 30µ"	18 (45.72)	GR	M3KKK-1018J-ND	9.71	85.12
	Au 30µ"	36 (91.44)	MC	M3KKK-1036R-ND	10.92	95.75
	Au 30µ"	36 (91.44)	GR	M3KKK-1036J-ND	10.18	89.29
14	Au 30µ"	6 (15.24)	MC	M3KKK-1406R-ND	13.20	115.75
	Au 30µ"	6 (15.24)	GR	M3KKK-1406J-ND	13.01	114.05
	Au 30µ"	18 (45.72)	MC	M3KKK-1418R-ND	13.99	122.66
	Au 30µ"	18 (45.72)	GR	M3KKK-1418J-ND	13.41	117.57
	Au 30µ"	36 (91.44)	MC	M3KKK-1436R-ND	15.17	133.03
	Au 30µ"	36 (91.44)	GR	M3KKK-1436J-ND	14.01	122.85
16	Au 30µ"	6 (15.24)	MC	M3KKK-1606R-ND	14.95	131.06
	Au 30µ"	6 (15.24)	GR	M3KKK-1606J-ND	14.72	129.12
	Au 30µ"	18 (45.72)	MC	M3KKK-1618R-ND	15.85	138.96
	Au 30µ"	18 (45.72)	GR	M3KKK-1618J-ND	15.18	133.15
	Au 30µ"	36 (91.44)	MC	M3KKK-1636R-ND	17.20	150.81
	Au 30µ"	36 (91.44)	GR	M3KKK-1636J-ND	15.87	139.18
20	Au 30µ"	6 (15.24)	MC	M3KKK-2006R-ND	17.46	153.14
	Au 30µ"	6 (15.24)	GR	M3KKK-2006J-ND	17.19	150.72
	Au 30µ"	18 (45.72)	MC	M3KKK-2018R-ND	18.59	163.01
	Au 30µ"	18 (45.72)	GR	M3KKK-2018J-ND	17.76	155.75
	Au 30µ"	36 (91.44)	MC	M3KKK-2036R-ND	20.28	177.83
	Au 30µ"	36 (91.44)	GR	M3KKK-2036J-ND	18.62	163.29
24	Au 30µ"	6 (15.24)	MC	M3KKK-2406R-ND	19.27	168.95
	Au 30µ"	6 (15.24)	GR	M3KKK-2406J-ND	18.93	166.04
	Au 30µ"	18 (45.72)	MC	M3KKK-2418R-ND	20.62	180.80
	Au 30µ"	18 (45.72)	GR	M3KKK-2418J-ND	19.62	172.08
	Au 30µ"	36 (91.44)	MC	M3KKK-2436R-ND	22.64	198.57
	Au 30µ"	36 (91.44)	GR	M3KKK-2436J-ND	20.66	181.13
26	Au 30µ"	6 (15.24)	MC	M3KKK-2606R-ND	19.97	175.14
	Au 30µ"	6 (15.24)	GR	M3KKK-2606J-ND	19.61	171.99
	Au 30µ"	18 (45.72)	MC	M3KKK-2618R-ND	21.44	187.98
	Au 30µ"	18 (45.72)	GR	M3KKK-2618J-ND	20.36	178.53
	Au 30µ"	36 (91.44)	MC	M3KKK-2636R-ND	23.63	207.23
	Au 30µ"	36 (91.44)	GR	M3KKK-2636J-ND	21.48	188.34
30	Au 30µ"	6 (15.24)	MC	M3KKK-3006R-ND	22.08	193.64
	Au 30µ"	6 (15.24)	GR	M3KKK-3006J-ND	21.61	189.53
	Au 30µ"	18 (45.72)	MC	M3KKK-3018R-ND	24.00	210.43
	Au 30µ"	18 (45.72)	GR	M3KKK-3018J-ND	22.59	198.08
	Au 30µ"	36 (91.44)	MC	M3KKK-3036R-ND	26.87	235.62
	Au 30µ"	36 (91.44)	GR	M3KKK-3036J-ND	24.05	210.91
34	Au 30µ"	6 (15.24)	MC	M3KKK-3406R-ND	24.81	217.58
	Au 30µ"	6 (15.24)	GR	M3KKK-3406J-ND	24.34	213.47
	Au 30µ"	18 (45.72)	MC	M3KKK-3418R-ND	26.73	234.37
	Au 30µ"	18 (45.72)	GR	M3KKK-3418J-ND	25.32	222.02
	Au 30µ"	36 (91.44)	MC	M3KKK-3436R-ND	29.60	259.56
	Au 30µ"	36 (91.44)	GR	M3KKK-3436J-ND	26.78	234.85
36	Au 30µ"	6 (15.24)	MC	M3KKK-3606R-ND	26.26	230.29
	Au 30µ"	6 (15.24)	GR	M3KKK-3606J-ND	25.75	225.81
	Au 30µ"	18 (45.72)	MC	M3KKK-3618R-ND	28.35	248.56
	Au 30µ"	18 (45.72)	GR	M3KKK-3618J-ND	26.81	235.12
	Au 30µ"	36 (91.44)	MC	M3KKK-3636R-ND	31.47	275.97
	Au 30µ"	36 (91.44)	GR	M3KKK-3636J-ND	28.40	249.08
40	Au 30µ"	6 (15.24)	MC	M3KKK-4006R-ND	27.58	241.87
	Au 30µ"	6 (15.24)	GR	M3KKK-4006J-ND	27.03	237.02
	Au 30µ"	18 (45.72)	MC	M3KKK-4018R-ND	29.83	261.62
	Au 30µ"	18 (45.72)	GR	M3KKK-4018J-ND	28.18	247.09
	Au 30µ"	36 (91.44)	MC	M3KKK-4036R-ND	33.21	291.24
	Au 30µ"	36 (91.44)	GR	M3KKK-4036J-ND	29.90	262.18
50	Au 30µ"	6 (15.24)	MC	M3KKK-5006R-ND	30.07	263.71
	Au 30µ"	6 (15.24)	GR	M3KKK-5006J-ND	29.38	257.66
	Au 30µ"	18 (45.72)	MC	M3KKK-5018R-ND	32.89	288.40
	Au 30µ"	18 (45.72)	GR	M3KKK-5018J-ND	30.82	270.23
	Au 30µ"	36 (91.44)	MC	M3KKK-5036R-ND	37.11	325.44
	Au 30µ"	36 (91.44)	GR	M3KKK-5036J-ND	32.97	289.10
60	Au 30µ"	6 (15.24)	MC	M3KKK-6006R-ND	35.49	311.21
	Au 30µ"	6 (15.24)	GR	M3KKK-6006J-ND	34.66	303.95
	Au 30µ"	18 (45.72)	MC	M3KKK-6018R-ND	38.87	340.84
	Au 30µ"	18 (45.72)	GR	M3KKK-6018J-ND	36.38	319.04
	Au 30µ"	36 (91.44)	MC	M3KKK-6036R-ND	43.94	385.28
	Au 30µ"	36 (91.44)	GR	M3KKK-6036J-ND	38.96	341.68
64	Au 30µ"	6 (15.24)	MC	M3KKK-6406R-ND	37.88	332.15
	Au 30µ"	6 (15.24)	GR	M3KKK-6406J-ND	36.99	324.40
	Au 30µ"	18 (45.72)	MC	M3KKK-6418R-ND	41.48	363.75
	Au 30µ"	18 (45.72)	GR	M3KKK-6418J-ND	38.83	340.50
	Au 30µ"	36 (91.44)	MC	M3KKK-6436R-ND	46.89	411.15
	Au 30µ"	36 (91.44)	GR	M3KKK-6436J-ND	41.58	364.64

Also available in the following configurations:

M3RRK-□□□□□-ND – Pin Connector without Flange, with Polarizing Key and Strain Relief
M3WWK-□□□□□-ND – Pin Connector with Flange, with Polarizing Key
M3YYK-□□□□□-ND – Pin Connector with Flange, with Polarizing Key and Strain Relief

Call for complete part number and pricing!

(Continued)

3M Termination Jumpers

Plug Connector to Plug Connector *(Cont.)*

*Twisted Pair Cable Finished Length is Approximate.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	20 (50.80)	TW	M3KKK-1020K-ND	10.53	92.35
	Au 30µ"	40 (101.60)	TW	M3KKK-1040K-ND	11.83	103.76
14	Au 30µ"	20 (50.80)	TW	M3KKK-1420K-ND	14.63	128.26
	Au 30µ"	40 (101.60)	TW	M3KKK-1440K-ND	16.45	144.24
16	Au 30µ"	20 (50.80)	TW	M3KKK-1620K-ND	16.58	145.37
	Au 30µ"	40 (101.60)	TW	M3KKK-1640K-ND	18.66	163.63
20	Au 30µ"	20 (50.80)	TW	M3KKK-2020K-ND	19.50	171.02
	Au 30µ"	40 (101.60)	TW	M3KKK-2040K-ND	22.11	193.85
20	Au 30µ"	20 (50.80)	TW	M3KKK-2620K-ND	22.62	198.39
	Au 30µ"	40 (101.60)	TW	M3KKK-2640K-ND	26.01	228.06
34	Au 30µ"	20 (50.80)	TW	M3KKK-3420K-ND	28.28	247.99
	Au 30µ"	40 (101.60)	TW	M3KKK-3440K-ND	32.70	286.78
40	Au 30µ"	20 (50.80)	TW	M3KKK-4020K-ND	31.66	277.64
	Au 30µ"	40 (101.60)	TW	M3KKK-4040K-ND	36.87	323.28
50	Au 30µ"	20 (50.80)	TW	M3KKK-5020K-ND	35.17	308.43
	Au 30µ"	40 (101.60)	TW	M3KKK-5040K-ND	41.68	365.48
60	Au 30µ"	20 (50.80)	TW	M3KKK-6020K-ND	41.61	364.87
	Au 30µ"	40 (101.60)	TW	M3KKK-6040K-ND	49.42	433.34
64	Au 30µ"	20 (50.80)	TW	M3KKK-6420K-ND	44.40	389.38
	Au 30µ"	40 (101.60)	TW	M3KKK-6440K-ND	52.73	462.41

Also available in the following configurations:

M3RRK-□□□□K-ND – Pin Connector without Flange, with Polarizing Key and Strain Relief.
M3WWK-□□□□K-ND – Pin Connector with Flange, with Polarizing Key.
M3YYK-□□□□K-ND – Pin Connector with Flange, with Polarizing Key and Strain Relief.

Call for complete part number and pricing!

Socket Connector to Plug Connector

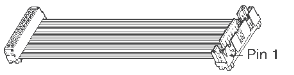

*MC = 3M Multi-Color, GR = 3M Gray

Pin connector without flange, with polarizing key, and socket connector without strain relief shown.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	6 (15.24)	MC	M3AKK-1006R-ND	8.02	70.30
	Au 30µ"	6 (15.24)	GR	M3AKK-1006J-ND	7.89	69.22
	Au 30µ"	18 (45.72)	MC	M3AKK-1018R-ND	8.58	75.24
	Au 30µ"	18 (45.72)	GR	M3AKK-1018J-ND	8.21	72.01
	Au 30µ"	36 (91.44)	MC	M3AKK-1036R-ND	9.42	82.64
	Au 30µ"	36 (91.44)	GR	M3AKK-1036J-ND	8.69	76.18
16	Au 30µ"	6 (15.24)	MC	M3AKK-1606R-ND	11.83	103.70
	Au 30µ"	6 (15.24)	GR	M3AKK-1606J-ND	11.60	101.76
	Au 30µ"	18 (45.72)	MC	M3AKK-1618R-ND	12.73	111.60
	Au 30µ"	18 (45.72)	GR	M3AKK-1618J-ND	12.06	105.79
	Au 30µ"	36 (91.44)	MC	M3AKK-1636R-ND	14.08	123.45
	Au 30µ"	36 (91.44)	GR	M3AKK-1636J-ND	12.75	111.82
20	Au 30µ"	6 (15.24)	MC	M3AKK-2006R-ND	13.56	118.94
	Au 30µ"	6 (15.24)	GR	M3AKK-2006J-ND	13.29	116.52
	Au 30µ"	18 (45.72)	MC	M3AKK-2018R-ND	14.69	128.81
	Au 30µ"	18 (45.72)	GR	M3AKK-2018J-ND	13.86	121.55
	Au 30µ"	36 (91.44)	MC	M3AKK-2036R-ND	16.38	143.63
	Au 30µ"	36 (91.44)	GR	M3AKK-2036J-ND	14.72	129.09
24	Au 30µ"	6 (15.24)	MC	M3AKK-2406R-ND	15.43	135.32
	Au 30µ"	6 (15.24)	GR	M3AKK-2406J-ND	15.10	132.41
	Au 30µ"	18 (45.72)	MC	M3AKK-2418R-ND	16.78	147.17
	Au 30µ"	18 (45.72)	GR	M3AKK-2418J-ND	15.79	138.45
	Au 30µ"	36 (91.44)	MC	M3AKK-2436R-ND	18.81	164.94
	Au 30µ"	36 (91.44)	GR	M3AKK-2436J-ND	16.82	147.50
26	Au 30µ"	6 (15.24)	MC	M3AKK-2606R-ND	16.23	142.36
	Au 30µ"	6 (15.24)	GR	M3AKK-2606J-ND	15.88	139.21
	Au 30µ"	18 (45.72)	MC	M3AKK-2618R-ND	17.70	155.20
	Au 30µ"	18 (45.72)	GR	M3AKK-2618J-ND	16.62	145.75
	Au 30µ"	36 (91.44)	MC	M3AKK-2636R-ND	19.89	174.46
	Au 30µ"	36 (91.44)	GR	M3AKK-2636J-ND	17.74	155.56
30	Au 30µ"	6 (15.24)	MC	M3AKK-3006R-ND	18.28	160.30
	Au 30µ"	6 (15.24)	GR	M3AKK-3006J-ND	17.81	156.18
	Au 30µ"	18 (45.72)	MC	M3AKK-3018R-ND	20.19	177.09
	Au 30µ"	18 (45.72)	GR	M3AKK-3018J-ND	18.79	164.73
	Au 30µ"	36 (91.44)	MC	M3AKK-3036R-ND	23.07	202.27
	Au 30µ"	36 (91.44)	GR	M3AKK-3036J-ND	20.25	177.56
34	Au 30µ"	6 (15.24)	MC	M3AKK-3406R-ND	20.55	180.25
	Au 30µ"	6 (15.24)	GR	M3AKK-3406J-ND	20.09	176.13
	Au 30µ"	18 (45.72)	MC	M3AKK-3418R-ND	22.47	197.04
	Au 30µ"	18 (45.72)	GR	M3AKK-3418J-ND	21.06	184.68
	Au 30µ"	36 (91.44)	MC	M3AKK-3436R-ND	25.34	222.22
	Au 30µ"	36 (91.44)	GR	M3AKK-3436J-ND	22.52	197.51
40	Au 30µ"	6 (15.24)	MC	M3AKK-4006R-ND	23.36	204.82
	Au 30µ"	6 (15.24)	GR	M3AKK-4006J-ND	22.80	199.97
	Au 30µ"	18 (45.72)	MC	M3AKK-4018R-ND	25.61	224.57
	Au 30µ"	18 (45.72)	GR	M3AKK-4018J-ND	23.95	210.04
	Au 30µ"	36 (91.44)	MC	M3AKK-4036R-ND	28.99	254.19
	Au 30µ"	36 (91.44)	GR	M3AKK-4036J-ND	25.67	225.13
50	Au 30µ"	6 (15.24)	MC	M3AKK-5006R-ND	26.99	236.64
	Au 30µ"	6 (15.24)	GR	M3AKK-5006J-ND	26.29	230.58
	Au 30µ"	18 (45.72)	MC	M3AKK-5018R-ND	29.80	261.33
	Au 30µ"	18 (45.72)	GR	M3AKK-5018J-ND	27.73	243.16
	Au 30µ"	36 (91.44)	MC	M3AKK-5036R-ND	34.02	298.36
	Au 30µ"	36 (91.44)	GR	M3AKK-5036J-ND	29.88	262.02
60	Au 30µ"	6 (15.24)	MC	M3AKK-6006R-ND	32.53	285.28
	Au 30µ"	6 (15.24)	GR	M3AKK-6006J-ND	31.70	278.01
	Au 30µ"	18 (45.72)	MC	M3AKK-6018R-ND	35.91	314.90
	Au 30µ"	18 (45.72)	GR	M3AKK-6018J-ND	33.42	293.10
	Au 30µ"	36 (91.44)	MC	M3AKK-6036R-ND	40.98	359.34
	Au 30µ"	36 (91.44)	GR	M3AKK-6036J-ND	36.01	315.74

Also available in the following configurations:

M3AWK-□□□□□-ND – Socket Connector Standard; Pin Connector with Flange, with Polarizing Key
M3BRK-□□□□□-ND – Socket Connector with SR; Pin Connector without Flange, with Polarizing Key and Strain Relief
M3BYK-□□□□□-ND – Socket Connector with Strain Relief; Pin Connector with Flange, with Polarizing Key and Strain Relief
M3CKK-□□□□□-ND – Socket Connector Open with Polarizing Key
M3CWK-□□□□□-ND – Socket Connector with Polarizing Key; Pin Connector with Flange, with Polarizing Key
M3DRK-□□□□□-ND – Socket Connector with Polarizing Key and SR; Pin Connector without Flange, with PK and SR
M3DYK-□□□□□-ND – Socket Connector with Polarizing Key and SR; Pin Connector with Flange, with Polarizing Key and SR
M3TKK-□□□□□-ND – Socket Connector Closed with Polarizing Key
M3URK-□□□□□-ND – Socket Connector Closed End with PK and SR; Pin Connector without Flange, with PK and SR
M3UYK-□□□□□-ND – Socket Connector Closed End with PK and SR; Pin Connector with Flange, with PK and Strain Relief

Call for complete part number and pricing!

Socket Connector to Plug Connector

*Twisted Pair Cable Finished Length is Approximate.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Au 30µ"	20 (50.80)	TW	M3AKK-1020K-ND	9.04	79.24
	Au 30µ"	40 (101.60)	TW	M3AKK-1040K-ND	10.34	90.65
	Au 30µ"	60 (152.40)	TW	M3AKK-1060K-ND	11.64	102.06
16	Au 30µ"	20 (50.80)	TW	M3AKK-1620K-ND	13.46	118.01
	Au 30µ"	40 (101.60)	TW	M3AKK-1640K-ND	15.54	136.27
	Au 30µ"	60 (152.40)	TW	M3AKK-1660K-ND	17.62	154.53
20	Au 30µ"	20 (50.80)	TW	M3AKK-2020K-ND	15.60	136.82
	Au 30µ"	40 (101.60)	TW	M3AKK-2040K-ND	18.21	159.65
	Au 30µ"	60 (152.40)	TW	M3AKK-2060K-ND	20.81	182.47
26	Au 30µ"	20 (50.80)	TW	M3AKK-2620K-ND	18.89	165.62
	Au 30µ"	40 (101.60)	TW	M3AKK-2640K-ND	22.27	195.29
	Au 30µ"	60 (152.40)	TW	M3AKK-2660K-ND	25.65	224.96
34	Au 30µ"	20 (50.80)	TW	M3AKK-3420K-ND	24.02	210.65
	Au 30µ"	40 (101.60)	TW	M3AKK-3440K-ND	28.45	249.45
	Au 30µ"	60 (152.40)	TW	M3AKK-3460K-ND	32.87	288.25
40	Au 30µ"	20 (50.80)	TW	M3AKK-4020K-ND	27.44	240.59
	Au 30µ"	40 (101.60)	TW	M3AKK-4040K-ND	32.64	286.23
	Au 30µ"	60 (152.40)	TW	M3AKK-4060K-ND	37.85	331.88
50	Au 30µ"	20 (50.80)	TW	M3AKK-5020K-ND	32.08	281.35
	Au 30µ"	40 (101.60)	TW	M3AKK-5040K-ND	38.59	338.41
	Au 30µ"	60 (152.40)	TW	M3AKK-5060K-ND	45.10	395.47
60	Au 30µ"	20 (50.80)	TW	M3AKK-6020K-ND	38.65	338.93
	Au 30µ"	40 (101.60)	TW	M3AKK-6040K-ND	46.46	407.40
	Au 30µ"	60 (152.40)	TW	M3AKK-6060K-ND	54.27	475.87

Also available in the following configurations:

M3AWK-□□□□K-ND – Socket Connector/Pin Connector w/ Flange w/ PK.
M3BRK-□□□□K-ND – Socket Connector with SR, Pin Connector without Flange with PK and SR.
M3BYK-□□□□K-ND – Socket Connector with SR, Pin Connector with Flange with PK and SR.
M3CKK-□□□□K-ND – Socket Connector with PK, Pin Connector without Flange with PK.
M3CWK-□□□□K-ND – Socket Connector with PK, Pin Connector with Flange with PK.
M3DRK-□□□□K-ND – Socket Connector with PK and SR, Pin Connector without Flange with PK and SR.
M3DYK-□□□□K-ND – Socket Connector with PK and SR, Pin Connector with Flange with PK and SR.
M3TKK-□□□□K-ND – Closed End Socket Connector with PK, Pin Connector without Flange with PK.
M3URK-□□□□K-ND – Closed End Socket Connector with PK and SR, Pin Connector without Flange with PK and SR.
M3UYK-□□□□K-ND – Closed End Socket Connector with PK and SR, Pin Connector with Flange with PK and SR.

Call for complete part number and pricing!

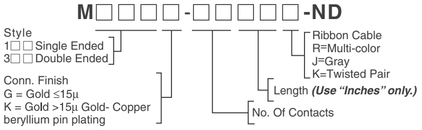

3M Delta Flat Ribbon Cable Connectors

Physical Specifications: • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Flat Cable Connectors: Beryllium copper • Latch Eject Headers: Copper alloy • Plating: 30µ" gold **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x109 Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level **Environmental Specifications:** • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971

3 mounting designs available. Those with **Prefix MDA** on Digi-Key part number: combination mount, which is a universal mount type that accepts both bail and screw mount hardware. **Prefix MDC:** bail mount, which can be used as a standard I/O connector for various electronic applications; positive latching and easy disconnect. **Prefix MDB:** screw mount, which have #4-40 threaded insert that simplifies mounting when a more permanent connection is desired.

Wire Accommodation: 26-30AWG stranded

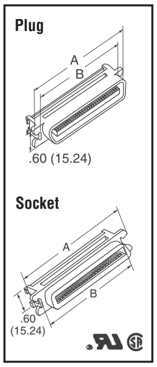

No. of Cont.	Dim. – Inch (mm) A	Dim. – Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
Plugs						
14	1.75 (44.45)	1.42 (36.07)	MDA14K-ND	4.99	42.00	3572-1000
	1.58 (40.13)	1.20 (30.48)	MDC14K-ND	5.76	48.48	3572-1001
	1.75 (44.45)	1.42 (36.07)	MDB14K-ND	5.37	45.15	3572-1002
24	2.17 (55.12)	1.84 (46.74)	MDA24K-ND	5.80	48.83	3548-1000
	2.00 (50.80)	1.63 (41.40)	MDC24K-ND	5.49	46.20	3548-1001
	2.17 (55.12)	1.84 (46.74)	MDB24K-ND	7.11	59.85	3548-1002
36	2.68 (68.07)	2.35 (59.69)	MDA36K-ND	7.32	61.60	3366-1000
	2.52 (64.01)	2.14 (54.36)	MDC36K-ND	6.74	56.70	3366-1001
	2.68 (68.07)	2.35 (59.69)	MDB36K-ND	6.88	57.93	3366-1002
50	3.27 (83.06)	2.95 (74.93)	MDA50K-ND	8.05	67.73	3564-1000
	3.11 (78.99)	2.73 (69.34)	MDC50K-ND	8.53	71.75	3564-1001
	3.27 (83.06)	2.95 (74.93)	MDB50K-ND	8.47	71.23	3564-1002
Sockets						
14	1.75 (44.45)	1.42 (36.07)	MDD14K-ND	6.66	56.00	3573-1000
	1.58 (40.13)	1.20 (30.48)	MDF14K-ND	4.60	38.68	3573-1001
	1.75 (44.45)	1.42 (36.07)	MDE14K-ND	6.07	51.10	3573-1002
24	2.17 (55.12)	1.84 (46.74)	MDD24K-ND	5.22	43.93	3549-1000
	2.00 (50.80)	1.63 (41.40)	MDF24K-ND	5.45	45.85	3549-1001
	2.17 (55.12)	1.84 (46.74)	MDE24K-ND	5.55	46.73	3549-1002
36	2.68 (68.07)	2.35 (59.69)	MDD36K-ND	6.43	54.08	3367-1000
	2.52 (64.01)	2.14 (54.36)	MDF36K-ND	7.20	60.55	3367-1001
	2.68 (68.07)	2.35 (59.69)	MDE36K-ND	7.63	64.23	3367-1002
50	3.27 (83.06)	2.95 (74.93)	MDD50K-ND	7.65	64.40	3565-1000
	3.11 (78.99)	2.73 (69.34)	MDF50K-ND	9.07	76.30	3565-1001
	3.27 (83.06)	2.95 (74.93)	MDE50K-ND	8.47	71.23	3565-1002
Backshells						
50	—	—	MDBF50-ND	3.58	30.10	3485-2500
Metal Strain Reliefs						
14	—	—	MDSF14-ND	.44	3.68	3448-60
24	—	—	MDSF24-ND	.44	3.68	3448-61
36	—	—	MDSF36-ND	.52	4.38	3448-62
50	—	—	MDSF50-ND	.52	4.38	3448-63

3M .100" x .100" PCB Connectors

RoHS COMPLIANT

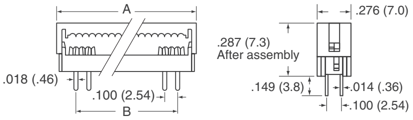

Series 78XX is a low cost, insulation displacement connector (IDC) designed for soldering of flat ribbon cable to a PC board.

Use with Wire Accommodations: 26AWG Stranded, 28AWG Solid or Stranded, 30AWG Solid.

Physical Specifications:
• Insulation Material: Glass filled Polyester • Flammability Rating: UL94V-0 • Color: Gray

Electrical Specifications: • Current Rating: 1.0A • Withstanding Voltage: 1000VAC for 1 minute

Environmental Specifications: • Temperature Rating: -55°C ~ 105°C

No. of Cont.	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	3M Part No.
			Gold Flash			
10	0.685 (17.4)	0.402 (10.2)	MDM10H-ND	3.29	26.79	7810-0006-PR
14	0.886 (22.5)	0.599 (15.2)	MDM14H-ND	3.71	30.21	7814-0006-PR
16	0.985 (25)	0.701 (17.8)	MDM16H-ND	3.78	30.78	7816-0006-PR
20	1.185 (30.1)	0.901 (22.9)	MDM20H-ND	3.57	29.07	7820-0006-PR
26	1.484 (37.7)	1.200 (30.5)	MDM26H-ND	4.62	37.62	7826-0006-PR
30	1.685 (42.8)	1.401 (35.6)	MDM30H-ND	5.01	40.76	7830-0006-PR
34	1.886 (47.9)	1.599 (40.6)	MDM34H-ND	4.73	38.48	7834-0006-PR
40	2.185 (55.5)	1.901 (48.3)	MDM40H-ND	5.92	48.17	7840-0006-PR
50	2.685 (68.2)	2.401 (61)	MDM50H-ND	6.93	56.43	7850-0006-PR
60	3.185 (80.9)	2.901 (73.7)	MDM60H-ND	7.60	61.85	7860-0006-PR

3M PCB Cable Assemblies

RoHS COMPLIANT

Single Ended — Style 2

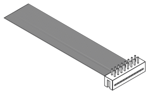

Connector Finish: Tin

*MC = 3M Multi-Color, GR = 3M Gray

No. of Cont.	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10	100
10	6 (15.24)	MC	M2MXH-1006R-ND	3.34	29.26	215.59
	6 (15.24)	GR	M2MXH-1006J-ND	3.21	28.18	207.65
	18 (45.72)	MC	M2MXH-1018R-ND	3.90	34.20	251.98
	18 (45.72)	GR	M2MXH-1018J-ND	3.53	30.97	228.17
	36 (91.44)	MC	M2MXH-1036R-ND	4.74	41.60	306.56
	36 (91.44)	GR	M2MXH-1036J-ND	4.01	35.14	258.93
14	6 (15.24)	MC	M2MXH-1406R-ND	3.84	33.67	248.07
	6 (15.24)	GR	M2MXH-1406J-ND	3.65	31.97	235.57
	18 (45.72)	MC	M2MXH-1418R-ND	4.63	40.58	299.01
	18 (45.72)	GR	M2MXH-1418J-ND	4.05	35.49	261.52
	36 (91.44)	MC	M2MXH-1436R-ND	5.81	50.95	375.42
	36 (91.44)	GR	M2MXH-1436J-ND	4.65	40.77	300.45
16	6 (15.24)	MC	M2MXH-1606R-ND	3.96	34.73	255.91
	6 (15.24)	GR	M2MXH-1606J-ND	3.74	32.79	241.63
	18 (45.72)	MC	M2MXH-1618R-ND	4.86	42.63	314.12
	18 (45.72)	GR	M2MXH-1618J-ND	4.20	36.82	271.28
	36 (91.44)	MC	M2MXH-1636R-ND	6.21	54.48	401.44
	36 (91.44)	GR	M2MXH-1636J-ND	4.89	42.85	315.76
20	6 (15.24)	MC	M2MXH-2006R-ND	3.88	34.01	250.58
	6 (15.24)	GR	M2MXH-2006J-ND	3.60	31.59	232.74
	18 (45.72)	MC	M2MXH-2018R-ND	5.00	43.88	323.35
	18 (45.72)	GR	M2MXH-2018J-ND	4.18	36.62	269.81
	36 (91.44)	MC	M2MXH-2036R-ND	6.69	58.70	432.50
	36 (91.44)	GR	M2MXH-2036J-ND	5.04	44.16	325.42
26	6 (15.24)	MC	M2MXH-2606R-ND	5.02	44.04	324.50
	6 (15.24)	GR	M2MXH-2606J-ND	4.66	40.89	301.29
	18 (45.72)	MC	M2MXH-2618R-ND	6.49	56.88	419.10
	18 (45.72)	GR	M2MXH-2618J-ND	5.41	47.43	349.48
	36 (91.44)	MC	M2MXH-2636R-ND	8.68	76.13	560.99
	36 (91.44)	GR	M2MXH-2636J-ND	6.53	57.24	421.76
34	6 (15.24)	MC	M2MXH-3406R-ND	5.34	46.87	345.35
	6 (15.24)	GR	M2MXH-3406J-ND	4.88	42.75	315.01
	18 (45.72)	MC	M2MXH-3418R-ND	7.26	63.66	469.06
	18 (45.72)	GR	M2MXH-3418J-ND	5.85	51.30	378.03
34	36 (91.44)	MC	M2MXH-3436R-ND	10.13	88.84	654.61
	36 (91.44)	GR	M2MXH-3436J-ND	7.31	64.13	472.56
40	6 (15.24)	MC	M2MXH-4006R-ND	6.62	58.04	427.67
	6 (15.24)	GR	M2MXH-4006J-ND	6.07	53.20	391.98
	18 (45.72)	MC	M2MXH-4018R-ND	8.87	77.79	573.20
	18 (45.72)	GR	M2MXH-4018J-ND	7.21	63.26	466.13
	36 (91.44)	MC	M2MXH-4036R-ND	12.25	107.42	791.49
	36 (91.44)	GR	M2MXH-4036J-ND	8.94	78.36	577.35
50	6 (15.24)	MC	M2MXH-5006R-ND	7.84	68.77	506.76
	6 (15.24)	GR	M2MXH-5006J-ND	7.15	62.72	462.13
	18 (45.72)	MC	M2MXH-5018R-ND	10.66	93.46	688.67
	18 (45.72)	GR	M2MXH-5018J-ND	8.59	75.29	554.80
	36 (91.44)	MC	M2MXH-5036R-ND	14.88	130.50	961.55
	36 (91.44)	GR	M2MXH-5036J-ND	10.74	94.16	693.80
60	6 (15.24)	MC	M2MXH-6006R-ND	8.74	76.66	564.85
	6 (15.24)	GR	M2MXH-6006J-ND	7.91	69.39	511.30
	18 (45.72)	MC	M2MXH-6018R-ND	12.12	106.28	783.14
	18 (45.72)	GR	M2MXH-6018J-ND	9.63	84.48	622.51
	36 (91.44)	MC	M2MXH-6036R-ND	17.19	150.72	1110.59
	36 (91.44)	GR	M2MXH-6036J-ND	12.22	107.12	789.33

Double Ended — Style 6

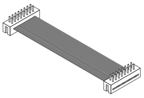

Connector Finish: Tin

*MC = 3M Multi-Color, GR = 3M Gray

No. of Cont.	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10	100
10	6 (15.24)	MC	M6MMH-1006R-ND	6.39	56.05	412.99
	6 (15.24)	GR	M6MMH-1006J-ND	6.27	54.97	405.05
	18 (45.72)	MC	M6MMH-1018R-ND	6.95	60.99	449.38
	18 (45.72)	GR	M6MMH-1018J-ND	6.59	57.76	425.57
	36 (91.44)	MC	M6MMH-1036R-ND	7.80	68.39	503.96
	36 (91.44)	GR	M6MMH-1036J-ND	7.06	61.93	456.33
14	6 (15.24)	MC	M6MMH-1406R-ND	7.28	63.88	470.67
	6 (15.24)	GR	M6MMH-1406J-ND	7.09	62.18	458.17
	18 (45.72)	MC	M6MMH-1418R-ND	8.07	70.79	521.61
	18 (45.72)	GR	M6MMH-1418J-ND	7.49	65.70	484.12
	36 (91.44)	MC	M6MMH-1436R-ND	9.26	81.16	598.02
	36 (91.44)	GR	M6MMH-1436J-ND	8.09	70.98	523.05
16	6 (15.24)	MC	M6MMH-1606R-ND	7.47	65.51	482.71
	6 (15.24)	GR	M6MMH-1606J-ND	7.25	63.57	468.43
	18 (45.72)	MC	M6MMH-1618R-ND	8.37	73.41	540.92
	18 (45.72)	GR	M6MMH-1618J-ND	7.71	67.60	498.08
	36 (91.44)	MC	M6MMH-1636R-ND	9.72	85.26	628.24
	36 (91.44)	GR	M6MMH-1636J-ND	8.40	73.63	542.56
20	6 (15.24)	MC	M6MMH-2006R-ND	7.19	63.08	464.78
	6 (15.24)	GR	M6MMH-2006J-ND	6.92	60.66	446.94
	18 (45.72)	MC	M6MMH-2018R-ND	8.32	72.95	537.55
	18 (45.72)	GR	M6MMH-2018J-ND	7.49	65.69	484.01
	36 (91.44)	MC	M6MMH-2036R-ND	10.01	87.77	646.70
	36 (91.44)	GR	M6MMH-2036J-ND	8.35	73.23	539.62
26	6 (15.24)	MC	M6MMH-2606R-ND	9.31	81.66	601.70
	6 (15.24)	GR	M6MMH-2606J-ND	8.95	78.51	578.49
	18 (45.72)	MC	M6MMH-2618R-ND	10.78	94.50	696.30
	18 (45.72)	GR	M6MMH-2618J-ND	9.70	85.05	626.68
	36 (91.44)	MC	M6MMH-2636R-ND	12.97	113.75	838.19
	36 (91.44)	GR	M6MMH-2636J-ND	10.82	94.86	698.96
34	6 (15.24)	MC	M6MMH-3406R-ND	9.73	85.34	628.85
	6 (15.24)	GR	M6MMH-3406J-ND	9.26	81.23	598.51
	18 (45.72)	MC	M6MMH-3418R-ND	11.65	102.13	752.56
	18 (45.72)	GR	M6MMH-3418J-ND	10.24	89.78	661.53
	36 (91.44)	MC	M6MMH-3436R-ND	14.52	127.32	938.11
	36 (91.44)	GR	M6MMH-3436J-ND	11.70	102.61	756.06
40	6 (15.24)	MC	M6MMH-4006R-ND	12.11	106.21	782.57
	6 (15.24)	GR	M6MMH-4006J-ND	11.56	101.36	746.88
	18 (45.72)	MC	M6MMH-4018R-ND	14.36	125.96	928.10
	18 (45.72)	GR	M6MMH-4018J-ND	12.71	111.43	821.03
	36 (91.44)	MC	M6MMH-4036R-ND	17.74	155.58	1146.39
	36 (91.44)	GR	M6MMH-4036J-ND	14.43	126.52	932.25
50	6 (15.24)	MC	M6MMH-5006R-ND	14.28	125.20	922.56
	6 (15.24)	GR	M6MMH-5006J-ND	13.59	119.15	877.93
	18 (45.72)	MC	M6MMH-5018R-ND	17.09	149.89	1104.47
	18 (45.72)	GR	M6MMH-5018J-ND	15.02	131.72	970.60
	36 (91.44)	MC	M6MMH-5036R-ND	21.32	186.93	1377.35
	36 (91.44)	GR	M6MMH-5036J-ND	17.17	150.59	1109.60
60	6 (15.24)	MC	M6MMH-6006R-ND	15.79	138.50	1020.55
	6 (15.24)	GR	M6MMH-6006J-ND	14.97	131.24	967.00
	18 (45.72)	MC	M6MMH-6018R-ND	19.17	168.13	1238.84
	18 (45.72)	GR	M 6MMH-6018J-ND	16.69	146.33	1078.21
	36 (91.44)	MC	M6MMH-6036R-ND	24.24	212.57	1566.29
	36 (91.44)	GR	M6MMH-6036J-ND	19.27	168.97	1245.03

Double Ended — Style 8

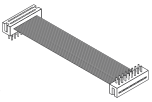

Connector Finish: Tin

*MC = 3M Multi-Color, GR = 3M Gray

No. of Cont.	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10	100
10	6 (15.24)	MC	M8MMH-1006R-ND	6.39	56.05	412.99
	6 (15.24)	GR	M8MMH-1006J-ND	6.27	54.97	405.05
	18 (45.72)	MC	M8MMH-1018R-ND	6.95	60.99	449.38
	18 (45.72)	GR	M8MMH-1018J-ND	6.59	57.76	425.57
	36 (91.44)	MC	M8MMH-1036R-ND	7.80	68.39	503.96
	36 (91.44)	GR	M8MMH-1036J-ND	7.06	61.93	456.33
14	6 (15.24)	MC	M8MMH-1406R-ND	7.28	63.88	470.67
	6 (15.24)	GR	M8MMH-1406J-ND	7.09	62.18	458.17
	18 (45.72)	MC	M8MMH-1418R-ND	8.07	70.79	521.61
	18 (45.72)	GR	M8MMH-1418J-ND	7.49	65.70	484.12
	36 (91.44)	MC	M8MMH-1436R-ND	9.26	81.16	598.02
	36 (91.44)	GR	M8MMH-1436J-ND	8.09	70.98	523.05
16	6 (15.24)	MC	M8MMH-1606R-ND	7.47	65.51	482.71
	6 (15.24)	GR	M8MMH-1606J-ND	7.25	63.57	468.43
	18 (45.72)	MC	M8MMH-1618R-ND	8.37	73.41	540.92
	18 (45.72)	GR	M8MMH-1618J-ND	7.71	67.60	498.08
	36 (91.44)	MC	M8MMH-1636R-ND	9.72	85.26	628.24
	36 (91.44)	GR	M8MMH-1636J-ND	8.40	73.63	542.56
20	6 (15.24)	MC	M8MMH-2006R-ND	7.19	63.08	464.78
	6 (15.24)	GR	M8MMH-2006J-ND	6.92	60.66	446.94
	18 (45.72)	MC	M8MMH-2018R-ND	8.32	72.95	537.55
	18 (45.72)	GR	M8MMH-2018J-ND	7.49	65.69	484.01
	36 (91.44)	MC	M8MMH-2036R-ND	10.01	87.77	646.70
	36 (91.44)	GR	M8MMH-2036J-ND	8.35	73.23	539.62
26	6 (15.24)	MC	M8MMH-2606R-ND	9.31	81.66	601.70
	6 (15.24)	GR	M8MMH-2606J-ND	8.95	78.51	578.49
	18 (45.72)	MC	M8MMH-2618R-ND	10.78	94.50	696.30
	18 (45.72)	GR	M8MMH-2618J-ND	9.70	85.05	626.68
	36 (91.44)	MC	M8MMH-2636R-ND	12.97	113.75	838.19
	36 (91.44)	GR	M8MMH-2636J-ND	10.82	94.86	698.96
34	6 (15.24)	MC	M8MMH-3406R-ND	9.73	85.34	628.85
	6 (15.24)	GR	M8MMH-3406J-ND	9.26	81.23	598.51
	18 (45.72)	MC	M8MMH-3418R-ND	11.65	102.13	752.56
	18 (45.72)	GR	M8MMH-3418J-ND	10.24	89.78	661.53
	36 (91.44)	MC	M8MMH-3436R-ND	14.52	127.32	938.11
	36 (91.44)	GR	M8MMH-3436J-ND	11.70	102.61	756.06
40	6 (15.24)	MC	M8MMH-4006R-ND	12.11	106.21	782.57
	6 (15.24)	GR	M8MMH-4006J-ND	11.56	101.36	746.88
	18 (45.72)	MC	M8MMH-4018R-ND	14.36	125.96	928.10
	18 (45.72)	GR	M8MMH-4018J-ND	12.71	111.43	821.03
	36 (91.44)	MC	M8MMH-4036R-ND	17.74	155.58	1146.39
	36 (91.44)	GR	M8MMH-4036J-ND	14.43	126.52	932.25
50	6 (15.24)	MC	M8MMH-5006R-ND	14.28	125.20	922.56
	6 (15.24)	GR	M8MMH-5006J-ND	13.59	119.15	877.93
	18 (45.72)	MC	M8MMH-5018R-ND	17.09	149.89	1104.47
	18 (45.72)	GR	M8MMH-5018J-ND	15.02	131.72	970.60
	36 (91.44)	MC	M8MMH-5036R-ND	21.32	186.93	1377.35
	36 (91.44)	GR	M8MMH-5036J-ND	17.17	150.59	1109.60
60	6 (15.24)	MC	M8MMH-6006R-ND	15.79	138.50	1020.55
	6 (15.24)	GR	M8MMH-6006J-ND	14.97	131.24	967.00
	18 (45.72)	MC	M8MMH-6018R-ND	19.17	168.13	1238.84
	18 (45.72)	GR	M8MMH-6018J-ND	16.69	146.33	1078.21
	36 (91.44)	MC	M8MMH-6036R-ND	24.24	212.57	1566.29
	36 (91.44)	GR	M8MMH-6036J-ND	19.27	168.97	1245.03

Latch/Eject Headers
.100" x .100" (2.54mm x 2.54mm)

Four-wall shrouded housing to protect against physical and chemical pin damage.
Order optional ejector latches separately.

Right Angle Headers

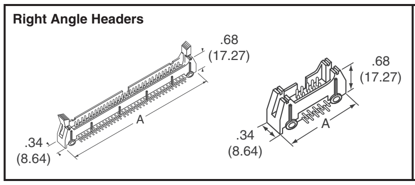

Straight Header

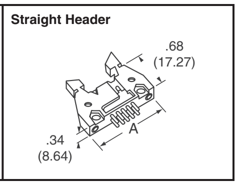

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
Right Angle						
10	1.26 (32.00)	MHR10K-ND	1.29	97.96	443.30	3793-5002
14	1.46 (37.08)	MHR14K-ND	1.77	134.30	607.75	3314-5002
16	1.56 (39.62)	MHR16K-ND	2.04	154.84	700.70	3408-5002
20	1.76 (44.70)	MHR20K-ND	2.52	191.18	865.15	3428-5002
24	1.96 (49.78)	MHR24K-ND	3.02	229.10	1036.75	3627-5002
26	2.06 (52.32)	MHR26K-ND	3.27	248.06	1122.55	3429-5002
40	2.76 (70.10)	MHR40K-ND	4.04	306.52	1387.10	3432-5002
50	3.26 (82.80)	MHR50K-ND	5.03	382.36	1730.30	3433-5002
Right Angle — RoHS Compliant						
10	1.26 (32.00)	MHR10L-ND	1.16	88.48	400.40	N3793-5002RB
14	1.46 (37.08)	MHR14L-ND	1.60	121.66	550.55	N3314-5002RB
16	1.56 (39.62)	MHR16L-ND	1.85	140.62	636.35	N3408-5002RB
20	1.76 (44.70)	MHR20L-ND	2.27	172.22	779.35	N3428-5002RB
24	1.96 (49.78)	MHR24L-ND	2.72	206.98	936.65	N3627-5002RB
26	2.06 (52.32)	MHR26L-ND	2.93	222.78	1008.15	N3429-5002RB
30	2.26 (57.40)	MHR30L-ND	2.72	206.98	936.65	N3440-5002RB
34	2.46 (62.48)	MHR34L-ND	3.06	232.26	1051.05	N3431-5002RB
40	2.76 (70.10)	MHR40L-ND	3.62	274.92	1244.10	N3432-5002RB
50	3.26 (82.80)	MHR50L-ND	4.51	342.86	1551.55	N3433-5002RB
60	3.76 (95.50)	MHR60L-ND	5.43	412.38	1866.15	N3372-5002RB
Straight						
10	1.26 (32.00)	MHS10K-ND	1.27	96.38	436.15	3793-6002
14	1.46 (37.08)	MHS14K-ND	1.75	132.72	600.60	3314-6002
16	1.56 (39.62)	MHS16K-ND	2.00	151.68	686.40	3408-6002
20	1.76 (44.70)	MHS20K-ND	2.48	188.02	850.85	3428-6002
24	1.96 (49.78)	MHS24K-ND	2.97	225.94	1022.45	3627-6002
26	2.06 (52.32)	MHS26K-ND	3.20	243.32	1101.10	3429-6002
30	2.26 (57.40)	MHS30K-ND	2.97	225.94	1022.45	3440-6002
34	2.46 (62.48)	MHS34K-ND	3.35	254.38	1151.15	3431-6002
40	2.76 (70.10)	MHS40K-ND	3.93	298.62	1351.35	3432-6002
50	3.26 (82.80)	MHS50K-ND	4.93	374.46	1694.55	3433-6002
60	3.76 (95.50)	MHS60K-ND	5.93	450.30	2037.75	3372-6002
Straight — RoHS Compliant						
10	1.26 (32.00)	MHS10L-ND	1.16	88.48	400.40	N3793-6002RB
14	1.46 (37.08)	MHS14L-ND	1.60	121.66	550.55	N3314-6002RB
16	1.56 (39.62)	MHS16L-ND	1.83	139.04	629.20	N3408-6002RB
20	1.76 (44.70)	MHS20L-ND	2.27	172.22	779.35	N3428-6002RB
24	1.96 (49.78)	MHS24L-ND	2.72	206.98	936.65	N3627-6002RB
26	2.06 (52.32)	MHS26L-ND	2.93	222.78	1008.15	N3429-6002RB
30	2.26 (57.40)	MHS30L-ND	2.72	206.98	936.65	N3440-6002RB
34	2.46 (62.48)	MHS34L-ND	3.04	230.68	1043.90	N3431-6002RB
40	2.76 (70.10)	MHS40L-ND	3.62	274.92	1244.10	N3432-6002RB
50	3.26 (82.80)	MHS50L-ND	4.51	342.86	1551.55	N3433-6002RB
60	3.76 (95.50)	MHS60L-ND	5.43	412.38	1866.15	N3372-6002RB
Optional Ejector Latches for Connectors — RoHS Compliant						
Short – Black with roll pins . . .		MLKS03-ND◊	.21/2	7.90	35.75	N3505-2B
Short – Gray with roll pins. . . .		MLKS01-ND◊	.21/2	7.90	35.75	3505-2
Short – Black Snap-in.		MLKS05-ND◊	.46/2	17.38	78.65	N3505-30B
Long – Black with roll pins. . . .		MLKS04-ND†	.21/2	7.90	35.75	N3505-3B
Long – Gray with roll pins		MLKS02-ND†	.21/2	7.90	35.75	3505-3
Long – Black Snap-in		MLKS06-ND†	.21/2	7.90	35.75	N3505-31B

◊ Use without strain relief † Use with strain relief

Polarized Boardmount Socket
.100" x .100" (2.54mm x 2.54mm) – 8500 Series

RoHS COMPLIANT

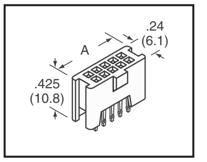

FEATURES: • Centerbump polarization • Mates with low profile shrouded headers

PHYSICAL: • Insulation Material: Glass Filled Polyester (PBT) • Flammability: UL 94V-0 • Color: Gray • Contact Material: Copper Alloy • Plating – Underplating and U-slot: 2µm (79µ") Nickel • Wiping Area: 0.3µm (12µ") Gold • Solder Tails: Gold Flash • Marking: 3M logo, Part Identification Number and Orientation Triangle

ELECTRICAL: • Current Rating: 1A • Insulation Resistance: >1 x 10⁹Ω @ 500VDC

ENVIRONMENTAL: • Temperature Rating: -55°C ~ 105°C

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
10	0.68 (17.3)	MSPV10-ND	2.10	159.58	722.15	8510-4500PL
16	0.98 (25.9)	MSPV16-ND	2.70	205.40	929.50	8516-4500PL
20	1.18 (30.0)	MSPV20-ND	3.20	243.32	1101.10	8520-4500PL
26	1.48 (37.6)	MSPV26-ND	3.70	281.24	1272.70	8526-4500PL
34	1.88 (47.7)	MSPV34-ND	4.47	339.70	1537.25	8534-4500PL
40	2.18 (55.4)	MSPV40-ND	5.01	380.78	1723.15	8540-4500PL
50	2.68 (68.1)	MSPV50-ND	5.99	455.04	2059.20	8550-4500PL
60	3.18 (80.8)	MSPV60-ND	6.95	527.72	2388.10	8560-4500PL
64	3.38 (85.8)	MSPV64-ND	7.30	554.58	2509.65	8564-4500PL

Low Profile Headers (Protected Headers)

PHYSICAL: • Flammability: UL 94V-0 • Marking: 3M logo, Part Identification Number and Orientation Triangle **ELECTRICAL:** • Current Rating: 2A • Insulation Resistance: >1x10⁹Ω @ 500Vdc • Withstanding voltage: 1000Vrms at Sea Level **ENVIRONMENTAL** • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080

Non-Compliant Specifications: **Insulation:** • Material: Glass filled Polyester (PBT) • Color: Gray • Contact Material: Phosphor Bronze (C510) **Plating:** • Underplating: 100µ" Nickel-QQ-N-290, Class 2 • Wiping Area: Gold-MIL-G-45204, Type II, Grade C • Solder Tails: 200µ" 60/40 Tin Lead-MIL-P-81728 • CSA File No.: LR 40971

RoHS Compliant Specifications: **Insulation:** • Material: Glass Filled Polyester (PBT), Glass Filled Polyester (PCT) High Temperature option • Contact Material: Copper Alloy **Plating**: • Underplating: 100µ" (2.54µm) Nickel - Overall • Wiping Area: Gold • Solder Tails: 200µ" (5.08µm) Tin Lead or Matte Tin

Right Angle Header

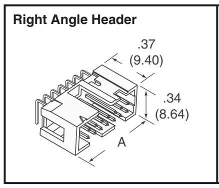

Straight Header

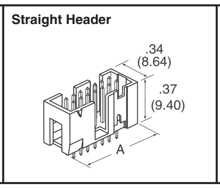

Straight Header – SMT

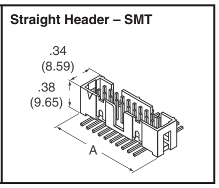

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
Straight Solder Tail, Gray PBT						
10	0.788 (20.02)	MHB10K-ND	1.52	115.34	521.95	2510-6002UB
14	0.988 (25.10)	MHB14K-ND	1.56	118.50	536.25	2514-6002UB
16	1.088 (27.64)	MHB16K-ND	1.75	132.72	600.60	2516-6002UB
20	1.288 (32.72)	MHB20K-ND	1.81	137.46	622.05	2520-6002UB
24	1.488 (37.80)	MHB24K-ND	1.91	145.36	657.80	2524-6002UB
26	1.588 (40.34)	MHB26K-ND	1.96	148.52	672.10	2526-6002UB
30	1.788 (45.42)	MHB30K-ND	2.25	170.64	772.20	2530-6002UB
34	1.988 (50.50)	MHB34K-ND	2.33	176.96	800.80	2534-6002UB
40	2.288 (58.12)	MHB40K-ND	2.50	189.60	858.00	2540-6002UB
50	2.788 (70.82)	MHB50K-ND	3.10	235.42	1065.35	2550-6002UB
60	3.288 (83.52)	MHB60K-ND	3.70	281.24	1272.70	2560-6002UB
Straight Solder Tail, Black PCT — RoHS Compliant						
10	0.788 (20.02)	MHC10K-ND	1.37	104.28	471.90	N2510-6002RB
14	0.988 (25.10)	MHC14K-ND	1.41	107.44	486.20	N2514-6002RB
16	1.088 (27.64)	MHC16K-ND	1.58	120.08	543.40	N2516-6002RB
20	1.288 (32.72)	MHC20K-ND	1.64	124.82	564.85	N2520-6002RB
24	1.488 (37.80)	MHC24K-ND	1.75	132.72	600.60	N2524-6002RB
26	1.588 (40.34)	MHC26K-ND	1.77	134.30	607.75	N2526-6002RB
30	1.788 (45.42)	MHC30K-ND	2.04	154.84	700.70	N2530-6002RB
34	1.988 (50.50)	MHC34K-ND	2.12	161.16	729.30	N2534-6002RB
40	2.288 (58.12)	MHC40K-ND	2.27	172.22	779.35	N2540-6002RB
50	2.788 (70.82)	MHC50K-ND	2.81	213.30	965.25	N2550-6002RB
60	3.288 (83.52)	MHC60K-ND	3.37	255.96	1158.30	N2560-6002RB
64	3.488 (88.60)	MHC64K-ND	3.58	271.76	1229.80	N2564-6002RB
Right Angle Solder Tail, Gray PBT						
10	0.788 (20.02)	MHD10K-ND	1.66	126.40	572.00	2510-5002UB
14	0.988 (25.10)	MHD14K-ND	1.73	131.14	593.45	2514-5002UB
16	1.088 (27.64)	MHD16K-ND	1.91	145.36	657.80	2516-5002UB
20	1.288 (32.72)	MHD20K-ND	2.02	153.26	693.55	2520-5002UB
24	1.488 (37.80)	MHD24K-ND	2.10	159.58	722.15	2524-5002UB
26	1.588 (40.34)	MHD26K-ND	2.12	161.16	729.30	2526-5002UB
30	1.788 (45.42)	MHD30K-ND	2.89	219.62	993.85	2530-5002UB
34	1.988 (50.50)	MHD34K-ND	2.54	192.76	872.30	2534-5002UB
40	2.288 (58.12)	MHD40K-ND	2.75	208.56	943.80	2540-5002UB
50	2.788 (70.82)	MHD50K-ND	3.39	257.54	1165.45	2550-5002UB
Right Angle Solder Tail, Black PCT — RoHS Compliant						
10	0.788 (20.02)	MHE10K-ND	1.52	115.34	521.95	N2510-5002RB
14	0.988 (25.10)	MHE14K-ND	1.56	118.50	536.25	N2514-5002RB
16	1.088 (27.64)	MHE16K-ND	1.75	132.72	600.60	N2516-5002RB
20	1.288 (32.72)	MHE20K-ND	1.83	139.04	629.20	N2520-5002RB
24	1.488 (37.80)	MHE24K-ND	1.91	145.36	657.80	N2524-5002RB
26	1.588 (40.34)	MHE26K-ND	1.93	146.94	664.95	N2526-5002RB
30	1.788 (45.42)	MHE30K-ND	2.62	199.08	900.90	N2530-5002RB
34	1.988 (50.50)	MHE34K-ND	2.31	175.38	793.65	N2534-5002RB
40	2.288 (58.12)	MHE40K-ND	2.50	189.60	858.00	N2540-5002RB
50	2.788 (70.82)	MHE50K-ND	3.08	233.84	1058.20	N2550-5002RB
60	3.288 (83.52)	MHE60K-ND	3.70	281.24	1272.70	N2560-5002RB
64	3.488 (88.60)	MHE64K-ND	3.95	300.20	1358.50	N2564-5002RB

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Cut Tape Pricing 1	100	T & R‡ Pricing 200	3M Part No.
Straight, Black PCT, SMT — RoHS Compliant						
10	.788 (20.02)	MSH10KCT-ND	1.58	120.08	228.00	N2510-6V0C-RB-WD
14	.988 (25.10)	MSH14KCT-ND	1.62	123.24	234.00	N2514-6V0C-RB-WD
16	1.088 (27.64)	MSH16KCT-ND	1.79	135.88	258.00	N2516-6V0C-RB-WE
20	1.288 (32.72)	MSH20KCT-ND	1.85	140.62	267.00	N2520-6V0C-RB-WE
24	1.488 (37.80)	MSH24KCT-ND	1.96	148.52	282.00	N2524-6V0C-RB-WE
26	1.588 (40.34)	MSH26KCT-ND	1.98	150.10	285.00	N2526-6V0C-RB-WF
30	1.788 (45.42)	MSH30KCT-ND	2.25	170.64	324.00	N2530-6V0C-RB-WF
34	1.988 (50.50)	MSH34KCT-ND	2.33	176.96	336.00	N2534-6V0C-RB-WF
40	2.288 (58.12)	MSH40KCT-ND	2.48	188.02	357.00	N2540-6V0C-RB-WG
50	2.788 (70.82)	MSH50KCT-ND	3.02	229.10	435.00	N2550-6V0C-RB-WG
60	3.288 (83.52)	MSH60KCT-ND	3.58	271.76	516.00	N2560-6V0C-RB-WH
64	3.488 (88.60)	MSH64KCT-ND	3.79	287.56	546.00	N2564-6V0C-RB-WH

‡ For Tape and Reel part number, change CT-ND to TR-ND.

3M

Round Conductor Flat Cable

3365 Series

UL File No.: E42769
AWM Style No.: 2651

Physical: • .050" pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: Gray with Red Stripe on wire #1 • AWM 2651 105C 300V VW1 • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x $10^{10}\Omega$/10 feet

Environmental: • Temperature Rating: -20°C ~ 105°C • Flammability Rating: VW-1

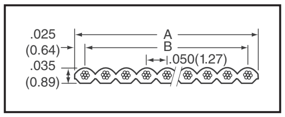

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing					
	A	B		5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★	300 ft.★
6	0.30 (7.62)	0.25 (6.35)	MC06G-X-ND†	1.22	2.27	5.06	8.73	15.71	41.88
10	0.50 (12.70)	0.45 (11.43)	MC10G-X-ND	1.71	3.17	7.08	12.21	21.98	58.60
14	0.70 (17.78)	0.65 (16.51)	MC14G-X-ND	2.16	4.02	8.96	15.45	27.80	74.14
16	0.80 (20.32)	0.75 (19.05)	MC16G-X-ND	2.47	4.59	10.24	17.65	31.77	84.72
20	1.00 (25.40)	0.95 (24.13)	MC20G-X-ND	3.09	5.74	12.80	22.07	39.72	105.92
24	1.20 (30.48)	1.15 (29.21)	MC24G-X-ND	3.71	6.88	15.36	26.48	47.66	127.10
26	1.30 (33.02)	1.25 (31.75)	MC26G-X-ND	4.02	7.46	16.64	28.68	51.63	137.68
34	1.70 (43.18)	1.65 (41.91)	MC34G-X-ND	5.25	9.75	21.76	37.51	67.52	180.06
37	1.85 (46.99)	1.80 (45.72)	MC37G-X-ND	5.72	10.61	23.68	40.83	73.49	195.96
40	2.00 (50.80)	1.95 (49.53)	MC40G-X-ND	6.18	11.48	25.60	44.14	79.45	211.86
50	2.50 (63.50)	2.45 (62.23)	MC50G-X-ND	7.72	14.34	31.99	55.16	99.29	264.76
60	3.00 (76.20)	2.95 (74.93)	MC60G-X-ND	9.27	17.21	38.39	66.20	119.15	317.74
64	3.20 (81.28)	3.15 (80.01)	MC64G-X-ND	9.88	18.36	40.95	70.60	127.09	338.90

★ Cable available on xxx foot roll † ***NEW!***

Color Coded Flat Cable

3302 Series

UL File No.: E42769
AWM Style No.: 20462

Physical: • .050" pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: 10 Color Repeat, Clear Carrier • AWM 20462 105C 300V VW1 • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x $10^{9}\Omega$/10 feet

Environmental: • Temperature Rating: -20°C ~ 105°C • Flammability Rating: VW-1

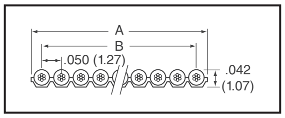

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing					
	A	B		5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★	300 ft.★
10	0.50 (12.70)	0.45 (11.43)	MC10M-X-ND	3.03	5.63	12.56	21.66	38.99	103.96
14	0.70 (17.78)	0.65 (16.51)	MC14M-X-ND	4.24	7.88	17.59	30.32	54.58	145.54
16	0.80 (20.32)	0.75 (19.05)	MC16M-X-ND	4.85	9.01	20.10	34.65	62.37	166.32
20	1.00 (25.40)	0.95 (24.13)	MC20M-X-ND	6.06	11.26	25.12	43.31	77.96	207.90
24	1.20 (30.48)	1.15 (29.21)	MC24M-X-ND	7.28	13.51	30.15	51.98	93.56	249.48
26	1.30 (33.02)	1.25 (31.75)	MC26M-X-ND	7.88	14.64	32.66	56.31	101.36	270.28
34	1.70 (43.18)	1.65 (41.91)	MC34M-X-ND	10.31	19.14	42.71	73.63	132.54	353.44
37	1.85 (46.99)	1.80 (45.72)	MC37M-X-ND	11.22	20.83	46.47	80.13	144.23	384.62
40	2.00 (50.80)	1.95 (49.53)	MC40M-X-ND	12.13	22.52	50.24	86.63	155.93	415.80
50	2.50 (63.50)	2.45 (62.23)	MC50M-X-ND	15.16	28.15	62.80	108.28	194.91	519.76
60	3.00 (76.20)	2.95 (74.93)	MC60M-X-ND	18.19	33.78	75.36	129.94	233.89	623.70
64	3.20 (81.28)	3.15 (80.01)	MC64M-X-ND	19.40	36.04	80.39	138.60	249.48	665.28

★ Cable available on xxx foot roll

High Flex Life Cable

3319 Series

UL File No.: E42769
AWM Style No.: 2651

19 strands of high strength copper alloy provide the longest flex life available for dynamic applications. Flex life of 100 million cycles at 1 3/4 inch diameter.

Physical: • .050" pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: Black with Red Stripe on wire #1 • AWM 2651 105C 300V VW1 • Conductors: 28 AWG, 19 x 40 Silver Plated Stranded Copper Alloy

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x $10^{10}\Omega$/10 feet

Environmental: • Temperature Rating: -20°C ~ 105°C • Flammability Rating: VW-1

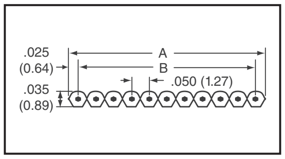

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing				
	A	B		5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★
10	0.50 (12.70)	0.45 (11.43)	MC10H-X-ND	19.94	37.03	82.60	142.41	227.86
14	0.70 (17.78)	0.65 (16.51)	MC14H-X-ND	27.91	51.84	115.64	199.38	319.00
16	0.80 (20.32)	0.75 (19.05)	MC16H-X-ND	31.90	59.24	132.15	227.85	364.56
20	1.00 (25.40)	0.95 (24.13)	MC20H-X-ND	39.87	74.05	165.19	284.81	455.70
24	1.20 (30.48)	1.15 (29.21)	MC24H-X-ND	47.85	88.86	198.23	341.78	546.84
26	1.30 (33.02)	1.25 (31.75)	MC26H-X-ND	51.84	96.27	214.75	370.26	592.42
34	1.70 (43.18)	1.65 (41.91)	MC34H-X-ND	67.79	125.89	280.83	484.19	774.70
37	1.85 (46.99)	1.80 (45.72)	MC37H-X-ND	73.77	136.99	305.60	526.90	843.04
40	2.00 (50.80)	1.95 (49.53)	MC40H-X-ND	79.75	148.10	330.38	569.63	911.40
50	2.50 (63.50)	2.45 (62.23)	MC50H-X-ND	99.69	185.13	412.98	712.04	1139.26
60	3.00 (76.20)	2.95 (74.93)	MC60H-X-ND	119.62	222.15	495.57	854.44	1367.10
64	3.20 (81.28)	3.15 (80.01)	MC64H-X-ND	127.59	236.96	528.60	911.38	1458.20

★ Cable available on xxx foot roll

Gray Cable Clamps with Adhesive

3484 Series: Cable clamps organize cable routing by clamping and retaining up to six layers of flat cable.

3484-1000-ND Cable Clamps with Adhesive **$14.00/100**

Round Conductor Flat Cable

2010 Series – Halogen Free

UL File No.: E42769
AWM Style No.: 20930

Advantages of this halogen free insulation are low smoke (BSS 7238) and low toxicity of combustion gasses (NES 713).

Physical: • .050" pitch • Insulation Material: Halogen Free Polyolefin (PO) • Color: Off-White with Blue Stripe on wire #1 • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper

Electrical: • Voltage Rating: 30V • Insulation Resistance: >1 x $10^{10}\Omega$/10 feet

Environmental: • Temperature Rating: -20°C ~ 105°C • Flammability Rating: UL: Horizontal IEC 332-1, -2, & -3

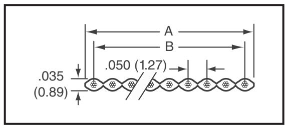

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing				
	A	B		5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★
9	0.45 (11.43)	0.40 (10.16)	MB09R-X-ND	3.12	5.79	12.92	22.28	35.64
10	0.50 (12.70)	0.45 (11.43)	MB10R-X-ND	3.46	6.43	14.35	24.74	39.58
14	0.70 (17.78)	0.65 (16.51)	MB14R-X-ND	4.85	9.01	20.09	34.64	55.42
15	0.75 (19.05)	0.70 (17.78)	MB15R-X-ND	5.19	9.65	21.52	37.10	59.36
16	0.80 (20.32)	0.75 (19.05)	MB16R-X-ND	5.54	10.29	22.95	39.58	63.32
20	1.00 (25.40)	0.95 (24.13)	MB20R-X-ND	6.93	12.86	28.70	49.48	79.16
24	1.20 (30.48)	1.15 (29.21)	MB24R-X-ND	8.31	15.43	34.43	59.36	94.98
25	1.25 (31.75)	1.20 (30.48)	MB25R-X-ND	8.66	16.08	35.87	61.84	98.94
26	1.30 (33.02)	1.25 (31.75)	MB26R-X-ND	9.00	16.72	37.30	64.31	102.90
30	1.50 (38.10)	1.45 (36.83)	MB30R-X-ND	10.39	19.30	43.04	74.21	118.74
34	1.70 (43.18)	1.65 (41.91)	MB34R-X-ND	11.77	21.87	48.78	84.10	134.56
36	1.80 (45.72)	1.75 (44.45)	MB36R-X-ND	12.47	23.15	51.65	89.05	142.48
37	1.85 (46.99)	1.80 (45.72)	MB37R-X-ND	12.81	23.80	53.08	91.53	146.44
40	2.00 (50.80)	1.95 (49.53)	MB40R-X-ND	13.85	25.73	57.39	98.95	158.32
50	2.50 (63.50)	2.45 (62.23)	MB50R-X-ND	17.32	32.16	71.74	123.69	197.90
60	3.00 (76.20)	2.95 (74.93)	MB60R-X-ND	20.78	38.59	86.09	148.43	237.48
64	3.20 (81.28)	3.15 (80.01)	MB64R-X-ND	22.17	41.16	91.83	158.33	253.32

★ Cable available on xxx foot roll

Twisted Pair Flat Cable

1700 Series

UL File No.: E42769
AWM Style No.: 20462

Provides reduced crosstalk in balanced drive applications. Standard product has alternating 18" twisted sections and 2" flat sections.

Physical: • .050" pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: 10 Color Repeat with Tan Common • AWM 20462 105C 300V VW1 • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x $10^{9}\Omega$/10 feet

Environmental: • Temperature Rating: -20°C ~ 105°C • Flammability Rating: VW-1

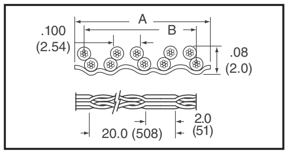

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing				
	A	B		5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★
10	0.50 (12.70)	0.45 (11.43)	MC10F-X-ND	3.23	6.01	13.40	23.10	36.96
14	0.70 (17.78)	0.65 (16.51)	MC14F-X-ND	4.53	8.41	18.76	32.34	51.74
16	0.80 (20.32)	0.75 (19.05)	MC16F-X-ND	5.17	9.61	21.44	36.96	59.14
20	1.00 (25.40)	0.95 (24.13)	MC20F-X-ND	6.47	12.01	26.80	46.20	73.92
26	1.30 (33.02)	1.25 (31.75)	MC26F-X-ND	8.41	15.62	34.84	60.06	96.10
34	1.70 (43.18)	1.65 (41.91)	MC34F-X-ND	11.00	20.42	45.55	78.54	125.66
36	1.80 (45.72)	1.75 (44.45)	MC36F-X-ND	11.64	21.62	48.23	83.16	133.06
40	2.00 (50.80)	1.95 (49.53)	MC40F-X-ND	12.94	24.02	53.59	92.40	147.84
50	2.50 (63.50)	2.45 (62.23)	MC50F-X-ND	16.17	30.03	66.99	115.50	184.80
60	3.00 (76.20)	2.95 (74.93)	MC60F-X-ND	19.40	36.04	80.39	138.60	221.76
64	3.20 (81.28)	3.15 (80.01)	MC64F-X-ND	20.70	38.44	85.75	147.84	236.54

★ Cable available on xxx foot roll

Shielded/Jacketed Flat Cable

3517 Series

UL File No.: E118773
AWM Style No.: 20879

360° expanded copper shielding provide 20 db average shielding effectiveness.

Physical: • .050" pitch • Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Black • Insulation Material: Polyvinyl Chloride (PVC) • Insulation Color: Gray with Red Stripe on wire #1 • AWM 20879 75C 28 AWG • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper • Shielding Material: Expanded Copper

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x $10^{10}\Omega$/10 feet

Environmental: • Temperature Rating: -20°C ~ 80°C • Flammability Rating: N.E.C 725, CL2

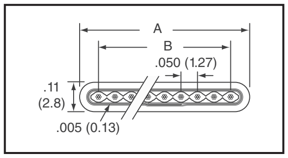

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing				
	A	B		5 ft.★	10 ft.★	25 ft.★	50 ft.★	100 ft.★
9	0.58 (14.70)	0.40 (10.16)	MB09H-X-ND	11.24	20.87	46.56	80.28	128.44
10	0.63 (16.00)	0.45 (11.43)	MB10H-X-ND	12.49	23.19	51.74	89.20	142.72
14	0.83 (21.10)	0.65 (16.51)	MB14H-X-ND	17.48	32.47	72.43	124.88	199.80
15	0.88 (22.40)	0.70 (17.78)	MB15H-X-ND	18.73	34.78	77.60	133.79	214.06
16	0.93 (23.60)	0.75 (19.05)	MB16H-X-ND	19.98	37.11	82.77	142.71	228.34
20	1.13 (28.70)	0.95 (24.13)	MB20H-X-ND	24.97	46.38	103.46	178.39	285.42
24	1.33 (33.80)	1.15 (29.21)	MB24H-X-ND	29.97	55.65	124.15	214.05	342.48
25	1.38 (35.00)	1.20 (30.48)	MB25H-X-ND	31.22	57.97	129.33	222.98	356.76
26	1.43 (36.30)	1.25 (31.75)	MB26H-X-ND	32.46	60.29	134.49	231.89	371.02
30	1.63 (41.40)	1.45 (36.83)	MB30H-X-ND	31.92	59.28	132.24	228.00	364.80
34	1.83 (46.50)	1.65 (41.91)	MB34H-X-ND	28.72	53.34	118.99	205.15	328.24
36	1.93 (49.00)	1.75 (44.45)	MB36H-X-ND	44.95	83.48	186.23	321.09	513.74
37	1.98 (50.30)	1.80 (45.72)	MB37H-X-ND	46.32	86.02	191.89	330.84	529.34
40	2.13 (54.10)	1.95 (49.53)	MB40H-X-ND	49.95	92.76	206.92	356.76	570.82
50	2.63 (66.80)	2.45 (62.23)	MB50H-X-ND	62.43	115.95	258.66	445.96	713.54
60	3.13 (79.50)	2.95 (74.93)	MB60H-X-ND	74.92	139.14	310.39	535.15	856.24
64	3.38 (85.90)	3.15 (80.01)	MB64H-X-ND	79.92	148.42	331.09	570.84	913.34

★ Cable available on xxx foot roll

3M

Shielded/Jacketed Flat Cable – 1785 Series

UL File No.: E118773
AWM Style No.: 2912

PHYSICAL: • .050" pitch • Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Black • Primary Material: PVC • Primary Color: 10 Color Repeat with Tan Common • Shielding: Expanded Copper

ELECTRICAL: • Voltage Rating: USA: N.E.C. 725, CL2 or AWM 150V; Canada: 150V; EU: >50V • Insulation Resistance: >1 x 10^9Ω/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C ~ 80°C

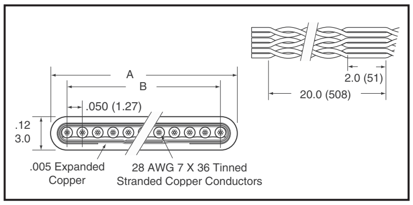

No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 10 ft.*	Pricing 25 ft.*	Pricing 50 ft.*	Pricing 100 ft.*
				Note: X in Digi-Key Part No. Represents No. of Feet			
16	0.93 (23.60)	0.75 (19.05)	MB16F-X-ND	35.89	80.06	138.04	220.86
20	1.13 (28.70)	0.95 (24.13)	MB20F-X-ND	41.47	92.51	159.50	255.20
26	1.43 (36.30)	1.25 (31.75)	MB26F-X-ND	53.91	120.26	207.34	331.74
34	1.83 (46.50)	1.65 (41.91)	MB34F-X-ND	70.50	157.27	271.15	433.84
36	1.93 (49.00)	1.75 (44.45)	MB36F-X-ND	74.65	166.52	287.10	459.36
40	2.13 (54.10)	1.95 (49.53)	MB40F-X-ND	88.52	197.48	340.48	544.76
50	2.63 (66.80)	2.45 (62.23)	MB50F-X-ND	103.68	231.28	398.75	638.00
60	3.13 (79.50)	2.95 (74.93)	MB60F-X-ND	124.41	277.52	478.49	765.58
64	3.38 (85.90)	3.15 (80.01)	MB64F-X-ND	141.63	315.95	544.74	871.58

* Cable available on xxx foot roll

Round Jacketed/Shielded Flat Cable – 3659 Series

UL File No.: E118773
AWM Style No.: 20267

PHYSICAL: • .050" pitch • Jacket Ma-terial: Polyvinyl Chloride (PVC) • Jacket Color: Black • Primary Material: PVC • Primary Color: Gray • Conductors: 28 AWG 7 x 36 Tinned Stranded Copper • Shielding: 0.001" (.03mm) Thick Aluminum/Polyester Film Foil and 90% Coverage Tinned Copper Braid

ELECTRICAL: • Voltage Rating: USA: N.E.C. 725, CL2 or AWM 300V; Canada: 300V, EU: >50V • Insulation Resistance: >1 x 10^{10}Ω/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C ~ 80°C

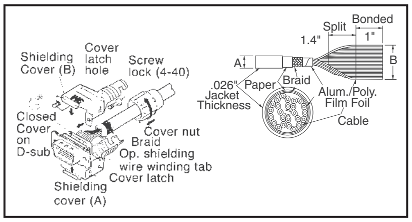

No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 5 ft.*	Pricing 10 ft.*	Pricing 25 ft.*	Pricing 50 ft.*	Pricing 100 ft.*
				Note: X in Digi-Key Part No. Represents No. of Feet				
9	0.27 (6.9)	0.40 (10.2)	MC09R-X-ND	10.24	19.02	42.43	73.15	117.04
10	0.27 (6.9)	0.45 (11.4)	MC10R-X-ND	10.72	19.91	44.42	76.59	122.54
14	0.31 (7.9)	0.65 (16.5)	MC14R-X-ND	11.65	21.64	48.27	83.23	133.16
15	0.31 (7.9)	0.70 (17.8)	MC15R-X-ND	12.12	22.51	50.21	86.56	138.50
16	0.31 (7.9)	0.75 (19.1)	MC16R-X-ND	12.58	23.36	52.11	89.85	143.76
20	0.34 (8.6)	0.95 (24.1)	MC20R-X-ND	13.05	24.24	54.06	93.21	149.14
24	0.37 (9.4)	1.15 (29.2)	MC24R-X-ND	13.98	25.96	57.92	99.86	159.78
25	0.37 (9.4)	1.20 (30.5)	MC25R-X-ND	14.42	26.78	59.73	102.99	164.78
26	0.37 (9.4)	1.25 (31.8)	MC26R-X-ND	14.91	27.70	61.78	106.53	170.44
34	0.41 (10.4)	1.65 (41.9)	MC34R-X-ND	16.78	31.16	69.51	119.85	191.76
36	0.43 (10.9)	1.75 (44.5)	MC36R-X-ND	17.24	32.03	71.44	123.18	197.08
37	0.43 (10.9)	1.80 (45.7)	MC37R-X-ND	17.71	32.89	73.37	126.50	202.40
40	0.43 (10.9)	1.95 (49.5)	MC40R-X-ND	18.18	33.76	75.31	129.84	207.74
50	0.48 (12.2)	2.45 (62.2)	MC50R-X-ND	20.97	38.95	86.88	149.80	239.68
60	0.51 (13.0)	2.95 (74.9)	MC60R-X-ND	23.51	43.66	97.40	167.94	268.70
64	0.54 (13.7)	3.15 (80.0)	MC64R-X-ND	24.70	45.87	102.33	176.44	282.30

* Cable available on xxx foot roll

No. of Contacts	Digi-Key Part No.	Pricing 1	Pricing 100	Pricing 500	Pricing 1,000	3M Part No.
		D-Sub Backshells				
9	MDBS09-ND	3.93	298.62	1351.35	2457.00	3357-9209
15	MDBS15-ND	4.35	330.22	1494.35	2717.00	3357-9215
25	MDBS25-ND	4.97	377.62	1708.85	3107.00	3357-9225
37	MDBS37-ND	7.26	551.42	2495.35	4537.00	3357-9237
50	MDBS50-ND	11.40	865.84	3918.20	7124.00	3357-9250
		Thumbscrew Kit (2 Thumbscrews and 2 Retainers)				
—	MDTS07-ND	3.97	301.78	1365.65	2483.00	3341-7

Round/Jacketed Flat Cable – 3759 Series

UL File No.: E118773
AWM Style No.: 20267

PHYSICAL: • .050" pitch • Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Black • Primary Material: PVC

ELECTRICAL: • Voltage Rating: USA: N.E.C. 725, CL2 or AWM 300V; Canada: 300V; EU: <50V • Insulation Resistance: >1 x 10^{10}Ω/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C ~ 80°C

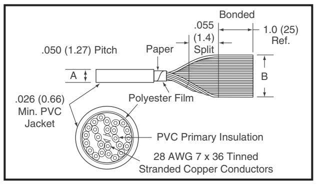

No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 5 ft.*	Pricing 10 ft.*	Pricing 25 ft.*	Pricing 50 ft.*	Pricing 100 ft.*
				Note: X in Digi-Key Part No. Represents No. of Feet				
9	0.26 (6.6)	0.40 (10.2)	MB09A-X-ND	8.75	16.25	36.25	62.50	100.00
10	0.26 (6.6)	0.45 (11.4)	MB10A-X-ND	9.16	17.01	37.95	65.43	104.68
14	0.27 (6.9)	0.65 (16.5)	MB14A-X-ND	9.95	18.49	41.24	71.10	113.76
15	0.27 (6.9)	0.70 (17.8)	MB15A-X-ND	10.35	19.23	42.89	73.95	118.32
16	0.27 (6.9)	0.75 (19.1)	MB16A-X-ND	10.75	19.96	44.54	76.79	122.86
20	0.30 (7.6)	0.95 (24.1)	MB20A-X-ND	11.15	20.71	46.19	79.64	127.42
24	0.33 (8.4)	1.15 (29.2)	MB24A-X-ND	11.95	22.18	49.49	85.33	136.52
25	0.33 (8.4)	1.20 (30.5)	MB25A-X-ND	12.32	22.88	51.04	88.00	140.80
26	0.33 (8.4)	1.25 (31.8)	MB26A-X-ND	12.74	23.67	52.79	91.03	145.64
30	0.37 (9.4)	1.45 (36.8)	MB30A-X-ND	12.68	23.56	52.55	90.60	144.96
34	0.37 (9.4)	1.65 (41.9)	MB34A-X-ND	14.34	26.62	59.39	102.40	163.84
36	0.39 (9.9)	1.75 (44.5)	MB36A-X-ND	14.73	27.36	61.04	105.24	168.38
37	0.39 (9.9)	1.80 (45.7)	MB37A-X-ND	15.13	28.10	62.68	108.08	172.92
40	0.39 (9.9)	1.95 (49.5)	MB40A-X-ND	15.53	28.84	64.34	110.93	177.48
50	0.44 (11.2)	2.45 (62.2)	MB50A-X-ND	17.92	33.28	74.23	127.99	204.78
60	0.47 (11.9)	2.95 (74.9)	MB60A-X-ND	20.09	37.31	83.22	143.49	229.58
64	0.50 (12.7)	3.15 (80.0)	MB64A-X-ND	21.10	39.19	87.43	150.74	241.18

* Cable available on xxx foot roll

.025" Gray Flat Cable – 3754 Series

PHYSICAL: • PVC Insulation • 30 AWG Stranded on .025" spacing

ELECTRICAL: • Voltage Rating: 30V • Flammability Rating: USA: VW-1 Canada: FT1

ENVIRONMENTAL: • Temperature Rating: -20°C ~ 105°C

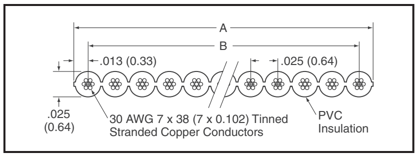

No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 5 Ft.*	Pricing 10 Ft.*	Pricing 25 Ft.*	Pricing 50 Ft.*	Pricing 100 Ft.*	Pricing 300 Ft.*
				Note: X in Digi-Key Part No. Represents No. of Feet					
20	0.500 (12.70)	0.475 (12.07)	MB20G-X-ND	3.65	6.77	15.10	26.04	46.87	125.00
26	0.650 (16.51)	0.625 (15.88)	MB26G-X-ND	4.74	8.80	19.63	33.85	60.93	162.48
30	0.750 (19.05)	0.725 (18.42)	MB30G-X-ND	5.47	10.16	22.65	39.06	70.31	187.48
40	1.000 (25.40)	0.975 (24.77)	MB40G-X-ND	7.29	13.54	30.21	52.08	93.74	249.98
50	1.250 (31.75)	1.225 (31.12)	MB50G-X-ND	9.11	16.93	37.76	65.10	117.18	312.48
60	1.500 (38.10)	1.475 (37.47)	MB60G-X-ND	10.94	20.31	45.31	78.12	140.62	374.98
68	1.700 (43.18)	1.675 (42.55)	MB68G-X-ND	12.40	23.02	51.35	88.54	159.37	424.98
80	2.000 (50.80)	1.975 (50.17)	MB80G-X-ND	14.58	27.08	60.41	104.16	187.49	499.96
100	2.500 (63.50)	2.475 (62.87)	MB100G-X-ND	18.23	33.85	75.52	130.20	234.36	624.96

* Cable available on xxx foot roll

Round Conductor Flat Cable – 2049 Series

UL File No.: E42769
AWM Style No.: 20930

PHYSICAL: • .025" pitch • Insulation Material: Halogen Free Polyolefin (PO) • Color: Off-White

ELECTRICAL: • Voltage Rating: USA: 30V; EU: <50V • Insulation Resistance: >1 x 10^{10}Ω/10 feet

ENVIRONMENTAL: • Temperature Rating: -40°C ~ 105°C

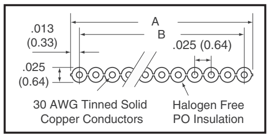
A
B
.013 (0.33)
.025 (0.64)
.025 (0.64)
30 AWG Tinned Solid Copper Conductors
Halogen Free PO Insulation

No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 5 ft.*	Pricing 10 ft.*	Pricing 25 ft.*	Pricing 50 ft.*	Pricing 100 ft.*
				Note: X in Digi-Key Part No. Represents No. of Feet				
20	0.500 (12.70)	0.475 (12.07)	MB20K-X-ND	6.23	11.56	25.80	44.48	71.16
40	1.000 (25.40)	0.975 (24.77)	MB40K-X-ND	13.13	24.38	54.38	93.75	150.00
50	1.250 (31.75)	1.225 (31.12)	MB50K-X-ND	15.65	29.07	64.85	111.81	178.90
60	1.500 (38.10)	1.475 (20.47)	MB60K-X-ND	18.68	34.69	77.39	133.43	213.48
68	1.700 (43.18)	1.675 (42.55)	MB68K-X-ND	21.17	39.32	87.70	151.21	241.94
80	2.000 (50.80)	1.975 (50.17)	MB80K-X-ND	24.91	46.25	103.18	177.90	284.64
100	2.500 (63.50)	2.475 (62.87)	MB100K-X-ND	31.13	57.81	128.97	222.36	355.78

* Cable available on xxx foot roll

Round Conductor Flat Cable – 3625 Series

UL File No.: E42769
AWM Style No.: 2651

PHYSICAL: • 1.0mm pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: Gray

ELECTRICAL: • Voltage Rating: USA: 300V; Canada: 300V; EU: <50V • Insulation Resistance: >1 x 10^{10}Ω/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C ~ 105°C

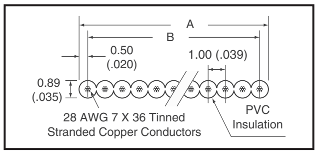

No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 5 M*	Pricing 10 M*	Pricing 25 M*	Pricing 50 M*	Pricing 100 M*
				Note: X in Digi-Key Part No. Represents No. of Meters				
8	0.315 (8.00)	0.276 (7.00)	MC08L-X-ND	5.96	11.07	24.69	42.56	68.10
14	0.551 (14.00)	0.512 (13.00)	MC14L-X-ND	11.47	21.31	47.53	81.95	131.12
16	0.630 (16.00)	0.591 (15.00)	MC16L-X-ND	13.11	24.35	54.32	93.65	149.84
20	0.787 (20.00)	0.748 (19.00)	MC20L-X-ND	14.90	27.67	61.73	106.43	170.28
22	0.866 (22.00)	0.827 (21.00)	MC22L-X-ND	18.03	33.48	74.69	128.78	206.04
24	0.945 (24.00)	0.906 (23.00)	MC24L-X-ND	19.67	36.53	81.48	140.49	224.78
26	1.024 (26.00)	0.984 (25.00)	MC26L-X-ND	21.30	39.57	88.26	152.18	243.48
30	1.181 (30.00)	1.142 (29.00)	MC30L-X-ND	24.58	45.65	101.84	175.59	280.94
34	1.339 (34.00)	1.299 (33.00)	MC34L-X-ND	27.86	51.74	115.43	199.01	318.42
36	1.417 (36.00)	1.378 (35.00)	MC36L-X-ND	26.82	49.80	111.10	191.55	306.48
40	1.575 (40.00)	1.535 (39.00)	MC40L-X-ND	32.78	60.88	135.80	234.14	374.62

* Cable available on xxx meter roll

ASSMANN

D-Subminiature Connectors

RoHS COMPLIANT

Dimensions	
No. of Cont.	A Inch (mm)
9	1.213 (30.81)
15	1.541 (39.14)
25	2.088 (53.04)
37	2.729 (69.32)

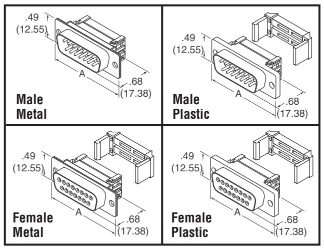

Specifications: • **Insulators:** PBT, glass filled, UL94V-0 • **Insulation resistance:** 1000MΩ @ 500V DC • **Dielectric Voltage:** 1000V 1 minute (Low Profile Version); 500V 1 minute (Plastic Version) • **Current Rating:** 5A (Low Profile Version); 1A (Plastic Version) • **Operating Temperature:** -55°C ~ 105°C

No. of Cont.	Contact Finish	Digi-Key Part No.	Price Each 1	Price Each 10	Assmann Part No.
Female D-Sub Low Profile, Metal Shell					
9	Gold	HFM09H-ND	4.34	3.29	A-DFF09LPXX-III-R
15		HFM15H-ND	5.46	4.14	A-DFF15LPXX-III-R
25		HFM25H-ND	5.46	4.14	A-DFF25LPXX-III-R
37		HFM37H-ND	11.47	8.70	A-DFF37LPXX-III-R
Male D-Sub Low Profile, Metal Shell					
9	Gold	HMM09H-ND	4.34	3.29	A-DSF09LPXX-III-R
15		HMM15H-ND	5.46	4.14	A-DSF15LPXX-III-R
25		HMM25H-ND	5.46	4.14	A-DSF25LPXX-III-R
37		HMM37H-ND	11.47	8.70	A-DSF37LPXX-III-R
Female D-Sub, Full Plastic Version					
9	Gold	HFP09H-ND	4.34	3.29	A-DFF09LPIII/FP-R
15		HFP15H-ND	5.46	4.14	A-DFF15LPIII/FP-R
25		HFP25H-ND	5.46	4.14	A-DFF25LPIII/FP-R
37		HFP37H-ND	11.47	8.70	A-DFF37LPIII/FP-R
Male D-Sub, Full Plastic Version					
9	Gold	HMP09H-ND	4.34	3.29	A-DSF09LPIII/FP-R
15		HMP15H-ND	5.46	4.14	A-DSF15LPIII/FP-R
25		HMP25H-ND	5.46	4.14	A-DSF25LPIII/FP-R
37		HMP37H-ND	11.47	8.70	A-DSF37LPIII/FP-R
Female D-Sub Low Profile with UNC Thread, Metal Shell					
9	Gold	HFU09H-ND	5.08	3.86	A-DFF09LPIII/Z-UNC-R
15		HFU15H-ND	6.20	4.70	A-DFF15LPIII/Z-UNC-R
25		HFU25H-ND	6.20	4.70	A-DFF25LPIII/Z-UNC-R
37		HFU37H-ND	12.21	9.26	A-DFF37LPIII/Z-UNC-R
Male D-Sub Low Profile with UNC Thread, Metal Shell					
9	Gold	HMU09H-ND	5.08	3.86	A-DSF09LPIII/Z-UNC-R
15		HMU15H-ND	6.20	4.70	A-DSF15LPIII/Z-UNC-R
25		HMU25H-ND	6.20	4.70	A-DSF25LPIII/Z-UNC-R
37		HMU37H-ND	12.21	9.26	A-DSF37LPIII/Z-UNC-R

H□ □ □ □-□ □ □ □ □-ND

Style
7□□Single Ended

Contact Finish
H = Gold

No. of Contacts

Length
(*Use "Feet" only.*)

Ribbon Cable
M=Multi-Color
G=Gray

D-Sub Cable Assemblies

RoHS COMPLIANT

Single Ended — Male

⋆MC=Multi-Color, GR=Gray
Plastic with Strain Relief Shown

No. of Contacts	Contact Finish	Length Feet (Meters)	Ribbon⋆ Cable	Digi-Key Part No.	Price Each 1	Price Each 10
9	Gold	6 (1.83)	MC	H7MXH-0906M-ND	4.77	3.62
		6 (1.83)	GR	H7MXH-0906G-ND	4.45	3.38
		10 (3.05)	MC	H7MXH-0910M-ND	5.05	3.83
		10 (3.05)	GR	H7MXH-0910G-ND	4.53	3.44
15	Gold	6 (1.83)	MC	H7MXH-1506M-ND	6.06	4.60
		6 (1.83)	GR	H7MXH-1506G-ND	5.64	4.28
		10 (3.05)	MC	H7MXH-1510M-ND	6.46	4.90
		10 (3.05)	GR	H7MXH-1510G-ND	5.77	4.38
25	Gold	6 (1.83)	MC	H7MXH-2506M-ND	6.46	4.90
		6 (1.83)	GR	H7MXH-2506G-ND	5.81	4.41
		10 (3.05)	MC	H7MXH-2510M-ND	7.13	5.41
		10 (3.05)	GR	H7MXH-2510G-ND	6.04	4.58
37	Gold	6 (1.83)	MC	H7MXH-3706M-ND	13.07	9.92
		6 (1.83)	GR	H7MXH-3706G-ND	11.94	9.05
		10 (3.05)	MC	H7MXH-3710M-ND	14.14	10.73
		10 (3.05)	GR	H7MXH-3710G-ND	12.25	9.29

Also available in the following configuration:
H7PXH-□□□□□-ND - Metal with Strain Relief
H7VXH-□□□□□-ND - Metal with Strain Relief and Threaded Insert
Call for complete part number and pricing

Single Ended — Female

⋆MC=Multi-Color, GR=Gray
Plastic with Strain Relief Shown

No. of Contacts	Contact Finish	Length Feet (Meters)	Ribbon⋆ Cable	Digi-Key Part No.	Price Each 1	Price Each 10
9	Gold	6 (1.83)	MC	H7FXH-0906M-ND	4.77	3.62
		6 (1.83)	GR	H7FXH-0906G-ND	4.45	3.38
		10 (3.05)	MC	H7FXH-0910M-ND	5.05	3.83
		10 (3.05)	GR	H7FXH-0910G-ND	4.53	3.44
15	Gold	6 (1.83)	MC	H7FXH-1506M-ND	6.06	4.60
		6 (1.83)	GR	H7FXH-1506G-ND	5.64	4.28
		10 (3.05)	MC	H7FXH-1510M-ND	6.46	4.90
		10 (3.05)	GR	H7FXH-1510G-ND	5.77	4.38
25	Gold	6 (1.83)	MC	H7FXH-2506M-ND	6.46	4.90
		6 (1.83)	GR	H7FXH-2506G-ND	5.81	4.41
		10 (3.05)	MC	H7FXH-2510M-ND	7.13	5.41
		10 (3.05)	GR	H7FXH-2510G-ND	6.04	4.58
37	Gold	6 (1.83)	MC	H7FXH-3706M-ND	13.07	9.92
		6 (1.83)	GR	H7FXH-3706G-ND	11.94	9.05
		10 (3.05)	MC	H7FXH-3710M-ND	14.14	10.73
		10 (3.05)	GR	H7FXH-3710G-ND	12.25	9.29

Also available in the following configuration:
H7SXH-□□□□□-ND - Metal with Strain Relief
H7WXH-□□□□□-ND - Metal with Strain Relief and Threaded Insert
Call for complete part number and pricing

Male to Male

⋆MC=Multi-Color, GR=Gray
Plastic with Strain Relief Shown

No. of Contacts	Contact Finish	Length Feet (Meters)	Ribbon⋆ Cable	Digi-Key Part No.	Price Each 1	Price Each 10
9	Gold	6 (1.83)	MC	H7MMH-0906M-ND	9.11	6.91
		6 (1.83)	GR	H7MMH-0906G-ND	8.79	6.67
		10 (3.05)	MC	H7MMH-0910M-ND	9.39	7.12
		10 (3.05)	GR	H7MMH-0910G-ND	8.87	6.73
15	Gold	6 (1.83)	MC	H7MMH-1506M-ND	11.51	8.73
		6 (1.83)	GR	H7MMH-1506G-ND	11.10	8.42
		10 (3.05)	MC	H7MMH-1510M-ND	11.91	9.04
		10 (3.05)	GR	H7MMH-1510G-ND	11.23	8.52
25	Gold	6 (1.83)	MC	H7MMH-2506M-ND	11.91	9.04
		6 (1.83)	GR	H7MMH-2506G-ND	11.26	8.54
		10 (3.05)	MC	H7MMH-2510M-ND	12.58	9.54
		10 (3.05)	GR	H7MMH-2510G-ND	11.50	8.72
37	Gold	6 (1.83)	MC	H7MMH-3706M-ND	24.54	18.61
		6 (1.83)	GR	H7MMH-3706G-ND	23.41	17.75
		10 (3.05)	MC	H7MMH-3710M-ND	25.61	19.42
		10 (3.05)	GR	H7MMH-3710G-ND	23.72	17.98

Also available in the following configuration:
H7PPH-□□□□□-ND - Metal with Strain Relief
H7VVH-□□□□□-ND - Metal with Strain Relief and Threaded Insert
Call for complete part number and pricing

Female to Female

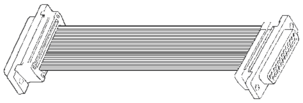

⋆MC=Multi-Color, GR=Gray
Plastic with Strain Relief Shown

No. of Contacts	Contact Finish	Length Feet (Meters)	Ribbon⋆ Cable	Digi-Key Part No.	Price Each 1	Price Each 10
9	Gold	6 (1.83)	MC	H7FFH-0906M-ND	9.11	6.91
		6 (1.83)	GR	H7FFH-0906G-ND	8.79	6.67
		10 (3.05)	MC	H7FFH-0910M-ND	9.39	7.12
		10 (3.05)	GR	H7FFH-0910G-ND	8.87	6.73
15	Gold	6 (1.83)	MC	H7FFH-1506M-ND	11.51	8.73
		6 (1.83)	GR	H7FFH-1506G-ND	11.10	8.42
		10 (3.05)	MC	H7FFH-1510M-ND	11.91	9.04
		10 (3.05)	GR	H7FFH-1510G-ND	11.23	8.52
25	Gold	6 (1.83)	MC	H7FFH-2506M-ND	11.91	9.04
		6 (1.83)	GR	H7FFH-2506G-ND	11.26	8.54
		10 (3.05)	MC	H7FFH-2510M-ND	12.58	9.54
		10 (3.05)	GR	H7FFH-2510G-ND	11.50	8.72
37	Gold	6 (1.83)	MC	H7FFH-3706M-ND	24.54	18.61
		6 (1.83)	GR	H7FFH-3706G-ND	23.41	17.75
		10 (3.05)	MC	H7FFH-3710M-ND	25.61	19.42
		10 (3.05)	GR	H7FFH-3710G-ND	23.72	17.98

Also available in the following configuration:
H7SSH-□□□□□-ND - Metal with Strain Relief
H7WWH-□□□□□-ND - Metal with Strain Relief and Threaded Insert
Call for complete part number and pricing

Male to Female

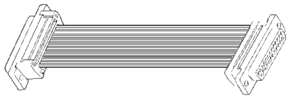

⋆MC=Multi-Color, GR=Gray
Plastic with Strain Relief Shown

No. of Contacts	Contact Finish	Length Feet (Meters)	Ribbon⋆ Cable	Digi-Key Part No.	Price Each 1	Price Each 10
9	Gold	6 (1.83)	MC	H7MFH-0906M-ND	9.11	6.91
		6 (1.83)	GR	H7MFH-0906G-ND	8.79	6.67
		10 (3.05)	MC	H7MFH-0910M-ND	9.39	7.12
		10 (3.05)	GR	H7MFH-0910G-ND	8.87	6.73
15	Gold	6 (1.83)	MC	H7MFH-1506M-ND	11.51	8.73
		6 (1.83)	GR	H7MFH-1506G-ND	11.10	8.42
		10 (3.05)	MC	H7MFH-1510M-ND	11.91	9.04
		10 (3.05)	GR	H7MFH-1510G-ND	11.23	8.52
25	Gold	6 (1.83)	MC	H7MFH-2506M-ND	11.91	9.04
		6 (1.83)	GR	H7MFH-2506G-ND	11.26	8.54
		10 (3.05)	MC	H7MFH-2510M-ND	12.58	9.54
		10 (3.05)	GR	H7MFH-2510G-ND	11.50	8.72
37	Gold	6 (1.83)	MC	H7MFH-3706M-ND	24.54	18.61
		6 (1.83)	GR	H7MFH-3706G-ND	23.41	17.75
		10 (3.05)	MC	H7MFH-3710M-ND	25.61	19.42
		10 (3.05)	GR	H7MFH-3710G-ND	23.72	17.98

Also available in the following configuration:
H7PSH-□□□□□-ND - Metal with Strain Relief
H7VWH-□□□□□-ND - Metal with Strain Relief and Threaded Insert
Call for complete part number and pricing

Dip Plug Connectors

RoHS COMPLIANT

Specifications:
• **Current Rating:** 1.0A • **Voltage Rating:** 500V AC/DC • **Withstanding Voltage:** 1000V AC/DC • **Contact Resistance:** 20mΩ Maximum • **Insulation Resistance:** 1000MΩ Minimum • **Operation Temperature:** -40°C ~ 105°C

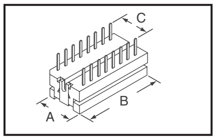

No. of Contacts	Dimensions Inch (mm)			Digi-Key Part No.	Price Each 1	Price Each 10
	A	B	C			
Dip Plug, Gray — Tin						
10	.42(10.60)	.707(17.95)	.30(7.62)	HDP10S-ND	3.22	2.45
14	.42(10.60)	.907(23.05)	.30(7.62)	HDP14S-ND	3.72	2.82
16	.42(10.60)	1.007(25.50)	.30(7.62)	HDP16S-ND	3.72	2.82
20	.42(10.60)	1.207(30.68)	.30(7.62)	HDP20S-ND	4.40	3.34
24	.72(18.20)	1.407(35.73)	.60(15.24)	HDP24S-ND	4.65	3.53
40	.72(18.20)	2.207(56.20)	.60(15.24)	HDP40S-ND	5.83	4.42
Dip Plug, Gray — Gold						
10	.42(10.60)	.707(17.95)	.30(7.62)	HDP10H-ND	3.22	2.45
14	.42(10.60)	.907(23.05)	.30(7.62)	HDP14H-ND	3.72	2.82
16	.42(10.60)	1.007(25.50)	.30(7.62)	HDP16H-ND	3.72	2.82
20	.42(10.60)	1.207(30.68)	.30(7.62)	HDP20H-ND	4.40	3.34
24	.72(18.20)	1.407(35.73)	.60(15.24)	HDP24H-ND	4.65	3.53
40	.72(18.20)	2.207(56.20)	.60(15.24)	HDP40H-ND	5.83	4.42

H□ □ □ □-□ □ □ □ □-ND

Style
2□□=Single Ended
4□□=Single Ended
6□□=Double Ended
8□□=Double Ended
0□□=Double Ended

Contact Finish
H = Gold
S = Tin

No. of Contacts

Length
(Use "Inches" only.)

Ribbon Cable
M=Multi-Color
G=Gray

Dip Plug Cable Assemblies

RoHS COMPLIANT

Single Ended Style 2

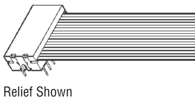

⋆MC=Multi-Color, GR=Gray
Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

No. of Contacts	Contact Finish	Length Inch (cm)	Ribbon⋆ Cable	Digi-Key Part No.	Price Each 1	Price Each 10
10	Gold	6 (15.24)	MC	H2PXH-1006M-ND	3.63	2.75
	Tin	6 (15.24)	MC	H2PXS-1006M-ND	3.63	2.75
	Gold	6 (15.24)	GR	H2PXH-1006G-ND	3.35	2.54
	Tin	6 (15.24)	GR	H2PXS-1006G-ND	3.35	2.54
	Gold	18 (45.72)	MC	H2PXH-1018M-ND	4.43	3.36
	Tin	18 (45.72)	MC	H2PXS-1018M-ND	4.43	3.36
	Gold	18 (45.72)	GR	H2PXH-1018G-ND	3.60	2.74
	Tin	18 (45.72)	GR	H2PXS-1018G-ND	3.60	2.74
	Gold	36 (91.44)	MC	H2PXH-1036M-ND	5.63	4.27
	Tin	36 (91.44)	MC	H2PXS-1036M-ND	5.63	4.27

(Continued)

ASSMANN

Dip Plug Cable Assemblies

Single Ended Style 2 *(Cont.)*

No. of Contacts	Contact Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each	
					1	10
10	Gold	36 (91.44)	GR	H2PXH-1036G-ND	3.98	3.02
	Tin	36 (91.44)	GR	H2PXS-1036G-ND	3.98	3.02
14	Gold	6 (15.24)	MC	H2PXH-1406M-ND	4.32	3.28
	Tin	6 (15.24)	MC	H2PXS-1406M-ND	4.32	3.28
	Gold	6 (15.24)	GR	H2PXH-1406G-ND	3.90	2.96
	Tin	6 (15.24)	GR	H2PXS-1406G-ND	3.90	2.96
	Gold	18 (45.72)	MC	H2PXH-1418M-ND	5.52	4.19
	Tin	18 (45.72)	MC	H2PXS-1418M-ND	5.52	4.19
	Gold	18 (45.72)	GR	H2PXH-1418G-ND	4.25	3.23
	Tin	18 (45.72)	GR	H2PXS-1418G-ND	4.25	3.23
	Gold	36 (91.44)	MC	H2PXH-1436M-ND	7.33	5.56
	Tin	36 (91.44)	MC	H2PXS-1436M-ND	7.33	5.56
	Gold	36 (91.44)	GR	H2PXH-1436G-ND	4.78	3.63
	Tin	36 (91.44)	GR	H2PXS-1436G-ND	4.78	3.63
16	Gold	6 (15.24)	MC	H2PXH-1606M-ND	4.36	3.31
	Tin	6 (15.24)	MC	H2PXS-1606M-ND	4.36	3.31
	Gold	6 (15.24)	GR	H2PXH-1606G-ND	3.92	2.98
	Tin	6 (15.24)	GR	H2PXS-1606G-ND	3.92	2.98
	Gold	18 (45.72)	MC	H2PXH-1618M-ND	5.65	4.28
	Tin	18 (45.72)	MC	H2PXS-1618M-ND	5.65	4.28
	Gold	18 (45.72)	GR	H2PXH-1618G-ND	4.33	3.28
	Tin	18 (45.72)	GR	H2PXS-1618G-ND	4.33	3.28
	Gold	36 (91.44)	MC	H2PXH-1636M-ND	7.57	5.74
	Tin	36 (91.44)	MC	H2PXS-1636M-ND	7.57	5.74
	Gold	36 (91.44)	GR	H2PXH-1636G-ND	4.93	3.74
	Tin	36 (91.44)	GR	H2PXS-1636G-ND	4.93	3.74
20	Gold	6 (15.24)	MC	H2PXH-2006M-ND	5.20	3.95
	Tin	6 (15.24)	MC	H2PXS-2006M-ND	5.20	3.95
	Gold	6 (15.24)	GR	H2PXH-2006G-ND	4.69	3.56
	Tin	6 (15.24)	GR	H2PXS-2006G-ND	4.69	3.56
	Gold	18 (45.72)	MC	H2PXH-2018M-ND	6.81	5.17
	Tin	18 (45.72)	MC	H2PXS-2018M-ND	6.81	5.17
	Gold	18 (45.72)	GR	H2PXH-2018G-ND	5.26	3.99
	Tin	18 (45.72)	GR	H2PXS-2018G-ND	5.26	3.99
	Gold	36 (91.44)	MC	H2PXH-2036M-ND	9.21	6.99
	Tin	36 (91.44)	MC	H2PXS-2036M-ND	9.21	6.99
	Gold	36 (91.44)	GR	H2PXH-2036G-ND	6.12	4.64
	Tin	36 (91.44)	GR	H2PXS-2036G-ND	6.12	4.64
24	Gold	6 (15.24)	MC	H2PXH-2406M-ND	5.65	4.29
	Tin	6 (15.24)	MC	H2PXS-2406M-ND	5.65	4.29
	Gold	6 (15.24)	GR	H2PXH-2406G-ND	4.92	3.73
	Tin	6 (15.24)	GR	H2PXS-2406G-ND	4.92	3.73
	Gold	18 (45.72)	MC	H2PXH-2418M-ND	7.66	5.81
	Tin	18 (45.72)	MC	H2PXS-2418M-ND	7.66	5.81
	Gold	18 (45.72)	GR	H2PXH-2418G-ND	5.46	4.14
	Tin	18 (45.72)	GR	H2PXS-2418G-ND	5.46	4.14
	Gold	36 (91.44)	MC	H2PXH-2436M-ND	10.67	8.09
	Tin	36 (91.44)	MC	H2PXS-2436M-ND	10.67	8.09
	Gold	36 (91.44)	GR	H2PXH-2436G-ND	6.26	4.75
	Tin	36 (91.44)	GR	H2PXS-2436G-ND	6.26	4.75
40	Gold	6 (15.24)	MC	H2PXH-4006M-ND	7.43	5.64
	Tin	6 (15.24)	MC	H2PXS-4006M-ND	7.43	5.64
	Gold	6 (15.24)	GR	H2PXH-4006G-ND	6.36	4.83
	Tin	6 (15.24)	GR	H2PXS-4006G-ND	6.36	4.83
	Gold	18 (45.72)	MC	H2PXH-4018M-ND	10.64	8.07
	Tin	18 (45.72)	MC	H2PXS-4018M-ND	10.64	8.07
	Gold	18 (45.72)	GR	H2PXH-4018G-ND	7.43	5.63
	Tin	18 (45.72)	GR	H2PXS-4018G-ND	7.43	5.63
	Gold	36 (91.44)	MC	H2PXH-4036M-ND	15.45	11.72
	Tin	36 (91.44)	MC	H2PXS-4036M-ND	15.45	11.72
	Gold	36 (91.44)	GR	H2PXH-4036G-ND	9.03	6.85
	Tin	36 (91.44)	GR	H2PXS-4036G-ND	9.03	6.85

Single Ended Style 4

*MC=Multi-Color,
GR=Gray

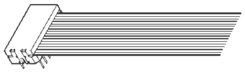

Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

No. of Contacts	Contact Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each	
					1	10
10	Gold	6 (15.24)	MC	H4PXH-1006M-ND	3.63	2.75
	Tin	6 (15.24)	MC	H4PXS-1006M-ND	3.63	2.75
	Gold	6 (15.24)	GR	H4PXH-1006G-ND	3.35	2.54
	Tin	6 (15.24)	GR	H4PXS-1006G-ND	3.35	2.54
	Gold	18 (45.72)	MC	H4PXH-1018M-ND	4.43	3.36
	Tin	18 (45.72)	MC	H4PXS-1018M-ND	4.43	3.36
	Gold	18 (45.72)	GR	H4PXH-1018G-ND	3.60	2.74
	Tin	18 (45.72)	GR	H4PXS-1018G-ND	3.60	2.74
	Gold	36 (91.44)	MC	H4PXH-1036M-ND	5.63	4.27
	Tin	36 (91.44)	MC	H4PXS-1036M-ND	5.63	4.27
	Gold	36 (91.44)	GR	H4PXH-1036G-ND	3.98	3.02
	Tin	36 (91.44)	GR	H4PXS-1036G-ND	3.98	3.02
14	Gold	6 (15.24)	MC	H4PXH-1406M-ND	4.32	3.28
	Tin	6 (15.24)	MC	H4PXS-1406M-ND	4.32	3.28
	Gold	6 (15.24)	GR	H4PXH-1406G-ND	3.90	2.96
	Tin	6 (15.24)	GR	H4PXS-1406G-ND	3.90	2.96
	Gold	18 (45.72)	MC	H4PXH-1418M-ND	5.52	4.19
	Tin	18 (45.72)	MC	H4PXS-1418M-ND	5.52	4.19
	Gold	18 (45.72)	GR	H4PXH-1418G-ND	4.25	3.23
	Tin	18 (45.72)	GR	H4PXS-1418G-ND	4.25	3.23
	Gold	36 (91.44)	MC	H4PXH-1436M-ND	7.33	5.56
	Tin	36 (91.44)	MC	H4PXS-1436M-ND	7.33	5.56
	Gold	36 (91.44)	GR	H4PXH-1436G-ND	4.78	3.63
	Tin	36 (91.44)	GR	H4PXS-1436G-ND	4.78	3.63
16	Gold	6 (15.24)	MC	H4PXH-1606M-ND	4.36	3.31
	Tin	6 (15.24)	MC	H4PXS-1606M-ND	4.36	3.31
	Gold	6 (15.24)	GR	H4PXH-1606G-ND	3.92	2.98
	Tin	6 (15.24)	GR	H4PXS-1606G-ND	3.92	2.98
	Gold	18 (45.72)	MC	H4PXH-1618M-ND	5.65	4.28
	Tin	18 (45.72)	MC	H4PXS-1618M-ND	5.65	4.28
	Gold	18 (45.72)	GR	H4PXH-1618G-ND	4.33	3.28
	Tin	18 (45.72)	GR	H4PXS-1618G-ND	4.33	3.28
	Gold	36 (91.44)	MC	H4PXH-1636M-ND	7.57	5.74
	Tin	36 (91.44)	MC	H4PXS-1636M-ND	7.57	5.74
	Gold	36 (91.44)	GR	H4PXH-1636G-ND	4.93	3.74
	Tin	36 (91.44)	GR	H4PXS-1636G-ND	4.93	3.74
20	Gold	6 (15.24)	MC	H4PXH-2006M-ND	5.20	3.95
	Tin	6 (15.24)	MC	H4PXS-2006M-ND	5.20	3.95
	Gold	6 (15.24)	GR	H4PXH-2006G-ND	4.69	3.56
	Tin	6 (15.24)	GR	H4PXS-2006G-ND	4.69	3.56
	Gold	18 (45.72)	MC	H4PXH-2018M-ND	6.81	5.17
	Tin	18 (45.72)	MC	H4PXS-2018M-ND	6.81	5.17
	Gold	18 (45.72)	GR	H4PXH-2018G-ND	5.26	3.99
	Tin	18 (45.72)	GR	H4PXS-2018G-ND	5.26	3.99
	Gold	36 (91.44)	MC	H4PXH-2036M-ND	9.21	6.99
	Tin	36 (91.44)	MC	H4PXS-2036M-ND	9.21	6.99
	Gold	36 (91.44)	GR	H4PXH-2036G-ND	6.12	4.64
	Tin	36 (91.44)	GR	H4PXS-2036G-ND	6.12	4.64
24	Gold	6 (15.24)	MC	H4PXH-2406M-ND	5.65	4.29
	Tin	6 (15.24)	MC	H4PXS-2406M-ND	5.65	4.29
	Gold	6 (15.24)	GR	H4PXH-2406G-ND	4.92	3.73
	Tin	6 (15.24)	GR	H4PXS-2406G-ND	4.92	3.73
	Gold	18 (45.72)	MC	H4PXH-2418M-ND	7.66	5.81
	Tin	18 (45.72)	MC	H4PXS-2418M-ND	7.66	5.81
	Gold	18 (45.72)	GR	H4PXH-2418G-ND	5.46	4.14
	Tin	18 (45.72)	GR	H4PXS-2418G-ND	5.46	4.14
	Gold	36 (91.44)	MC	H4PXH-2436M-ND	10.67	8.09
	Tin	36 (91.44)	MC	H4PXS-2436M-ND	10.67	8.09
	Gold	36 (91.44)	GR	H4PXH-2436G-ND	6.26	4.75
	Tin	36 (91.44)	GR	H4PXS-2436G-ND	6.26	4.75
40	Gold	6 (15.24)	MC	H4PXH-4006M-ND	7.43	5.64
	Tin	6 (15.24)	MC	H4PXS-4006M-ND	7.43	5.64
	Gold	6 (15.24)	GR	H4PXH-4006G-ND	6.36	4.83
	Tin	6 (15.24)	GR	H4PXS-4006G-ND	6.36	4.83
	Gold	18 (45.72)	MC	H4PXH-4018M-ND	10.64	8.07
	Tin	18 (45.72)	MC	H4PXS-4018M-ND	10.64	8.07
	Gold	18 (45.72)	GR	H4PXH-4018G-ND	7.43	5.63
	Tin	18 (45.72)	GR	H4PXS-4018G-ND	7.43	5.63
	Gold	36 (91.44)	MC	H4PXH-4036M-ND	15.45	11.72
	Tin	36 (91.44)	MC	H4PXS-4036M-ND	15.45	11.72
	Gold	36 (91.44)	GR	H4PXH-4036G-ND	9.03	6.85
	Tin	36 (91.44)	GR	H4PXS-4036G-ND	9.03	6.85

Double Ended Style 6

*MC=Multi-Color,
GR=Gray

Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

No. of Contacts	Contact Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each	
					1	10
10	Gold	6 (15.24)	MC	H6PPH-1006M-ND	6.85	5.20
	Tin	6 (15.24)	MC	H6PPS-1006M-ND	6.85	5.20
	Gold	6 (15.24)	GR	H6PPH-1006G-ND	6.57	4.99
	Tin	6 (15.24)	GR	H6PPS-1006G-ND	6.57	4.99
	Gold	18 (45.72)	MC	H6PPH-1018M-ND	7.65	5.80
	Tin	18 (45.72)	MC	H6PPS-1018M-ND	7.65	5.80
	Gold	18 (45.72)	GR	H6PPH-1018G-ND	6.83	5.18
	Tin	18 (45.72)	GR	H6PPS-1018G-ND	6.83	5.18
	Gold	36 (91.44)	MC	H6PPH-1036M-ND	8.85	6.72
	Tin	36 (91.44)	MC	H6PPS-1036M-ND	8.85	6.72
	Gold	36 (91.44)	GR	H6PPH-1036G-ND	7.21	5.47
	Tin	36 (91.44)	GR	H6PPS-1036G-ND	7.21	5.47
14	Gold	6 (15.24)	MC	H6PPH-1406M-ND	8.04	6.10
	Tin	6 (15.24)	MC	H6PPS-1406M-ND	8.04	6.10
	Gold	6 (15.24)	GR	H6PPH-1406G-ND	7.62	5.78
	Tin	6 (15.24)	GR	H6PPS-1406G-ND	7.62	5.78
	Gold	18 (45.72)	MC	H6PPH-1418M-ND	9.24	7.01
	Tin	18 (45.72)	MC	H6PPS-1418M-ND	9.24	7.01
	Gold	18 (45.72)	GR	H6PPH-1418G-ND	7.97	6.05
	Tin	18 (45.72)	GR	H6PPS-1418G-ND	7.97	6.05
	Gold	36 (91.44)	MC	H6PPH-1436M-ND	11.05	8.38
	Tin	36 (91.44)	MC	H6PPS-1436M-ND	11.05	8.38
	Gold	36 (91.44)	GR	H6PPH-1436G-ND	8.50	6.45
	Tin	36 (91.44)	GR	H6PPS-1436G-ND	8.50	6.45
16	Gold	6 (15.24)	MC	H6PPH-1606M-ND	8.08	6.13
	Tin	6 (15.24)	MC	H6PPS-1606M-ND	8.08	6.13
	Gold	6 (15.24)	GR	H6PPH-1606G-ND	7.64	5.80
	Tin	6 (15.24)	GR	H6PPS-1606G-ND	7.64	5.80
	Gold	18 (45.72)	MC	H6PPH-1618M-ND	9.37	7.10
	Tin	18 (45.72)	MC	H6PPS-1618M-ND	9.37	7.10
	Gold	18 (45.72)	GR	H6PPH-1618G-ND	8.05	6.10
	Tin	18 (45.72)	GR	H6PPS-1618G-ND	8.05	6.10
	Gold	36 (91.44)	MC	H6PPH-1636M-ND	11.29	8.56
	Tin	36 (91.44)	MC	H6PPS-1636M-ND	11.29	8.56
	Gold	36 (91.44)	GR	H6PPH-1636G-ND	8.65	6.56
	Tin	36 (91.44)	GR	H6PPS-1636G-ND	8.65	6.56
20	Gold	6 (15.24)	MC	H6PPH-2006M-ND	9.61	7.29
	Tin	6 (15.24)	MC	H6PPS-2006M-ND	9.61	7.29
	Gold	6 (15.24)	GR	H6PPH-2006G-ND	9.09	6.90
	Tin	6 (15.24)	GR	H6PPS-2006G-ND	9.09	6.90
	Gold	18 (45.72)	MC	H6PPH-2018M-ND	11.21	8.50
	Tin	18 (45.72)	MC	H6PPS-2018M-ND	11.21	8.50
	Gold	18 (45.72)	GR	H6PPH-2018G-ND	9.66	7.33
	Tin	18 (45.72)	GR	H6PPS-2018G-ND	9.66	7.33
	Gold	36 (91.44)	MC	H6PPH-2036M-ND	13.62	10.33
	Tin	36 (91.44)	MC	H6PPS-2036M-ND	13.62	10.33
	Gold	36 (91.44)	GR	H6PPH-2036G-ND	10.52	7.98
	Tin	36 (91.44)	GR	H6PPS-2036G-ND	10.52	7.98
24	Gold	6 (15.24)	MC	H6PPH-2406M-ND	10.30	7.81
	Tin	6 (15.24)	MC	H6PPS-2406M-ND	10.30	7.81
	Gold	6 (15.24)	GR	H6PPH-2406G-ND	9.57	7.26
	Tin	6 (15.24)	GR	H6PPS-2406G-ND	9.57	7.26
	Gold	18 (45.72)	MC	H6PPH-2418M-ND	12.31	9.33
	Tin	18 (45.72)	MC	H6PPS-2418M-ND	12.31	9.33
	Gold	18 (45.72)	GR	H6PPH-2418G-ND	10.11	7.67
	Tin	18 (45.72)	GR	H6PPS-2418G-ND	10.11	7.67
	Gold	36 (91.44)	MC	H6PPH-2436M-ND	15.32	11.61
	Tin	36 (91.44)	MC	H6PPS-2436M-ND	15.32	11.61
	Gold	36 (91.44)	GR	H6PPH-2436G-ND	10.91	8.28
	Tin	36 (91.44)	GR	H6PPS-2436G-ND	10.91	8.28
40	Gold	6 (15.24)	MC	H6PPH-4006M-ND	13.26	10.06
	Tin	6 (15.24)	MC	H6PPS-4006M-ND	13.26	10.06
	Gold	6 (15.24)	GR	H6PPH-4006G-ND	12.19	9.24
	Tin	6 (15.24)	GR	H6PPS-4006G-ND	12.19	9.24
	Gold	18 (45.72)	MC	H6PPH-4018M-ND	16.47	12.49
	Tin	18 (45.72)	MC	H6PPS-4018M-ND	16.47	12.49
	Gold	18 (45.72)	GR	H6PPH-4018G-ND	13.25	10.05
	Tin	18 (45.72)	GR	H6PPS-4018G-ND	13.25	10.05
	Gold	36 (91.44)	MC	H6PPH-4036M-ND	21.28	16.14
	Tin	36 (91.44)	MC	H6PPS-4036M-ND	21.28	16.14
	Gold	36 (91.44)	GR	H6PPH-4036G-ND	14.85	11.26
	Tin	36 (91.44)	GR	H6PPS-4036G-ND	14.85	11.26

Double Ended Style 8

*MC=Multi-Color,
GR=Gray

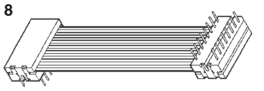

Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

No. of Contacts	Contact Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each	
					1	10
10	Gold	6 (15.24)	MC	H8PPH-1006M-ND	6.85	5.20
	Tin	6 (15.24)	MC	H8PPS-1006M-ND	6.85	5.20
	Gold	6 (15.24)	GR	H8PPH-1006G-ND	6.57	4.99
	Tin	6 (15.24)	GR	H8PPS-1006G-ND	6.57	4.99
	Gold	18 (45.72)	MC	H8PPH-1018M-ND	7.65	5.80
	Tin	18 (45.72)	MC	H8PPS-1018M-ND	7.65	5.80
	Gold	18 (45.72)	GR	H8PPH-1018G-ND	6.83	5.18
	Tin	18 (45.72)	GR	H8PPS-1018G-ND	6.83	5.18
	Gold	36 (91.44)	MC	H8PPH-1036M-ND	8.85	6.72
	Tin	36 (91.44)	MC	H8PPS-1036M-ND	8.85	6.72
	Gold	36 (91.44)	GR	H8PPH-1036G-ND	7.21	5.47
	Tin	36 (91.44)	GR	H8PPS-1036G-ND	7.21	5.47
14	Gold	6 (15.24)	MC	H8PPH-1406M-ND	8.04	6.10
	Tin	6 (15.24)	MC	H8PPS-1406M-ND	8.04	6.10
	Gold	6 (15.24)	GR	H8PPH-1406G-ND	7.62	5.78
	Tin	6 (15.24)	GR	H8PPS-1406G-ND	7.62	5.78
	Gold	18 (45.72)	MC	H8PPH-1418M-ND	9.24	7.01
	Tin	18 (45.72)	MC	H8PPS-1418M-ND	9.24	7.01
	Gold	18 (45.72)	GR	H8PPH-1418G-ND	7.97	6.05
	Tin	18 (45.72)	GR	H8PPS-1418G-ND	7.97	6.05
	Gold	36 (91.44)	MC	H8PPH-1436M-ND	11.05	8.38
	Tin	36 (91.44)	MC	H8PPS-1436M-ND	11.05	8.38
	Gold	36 (91.44)	GR	H8PPH-1436G-ND	8.50	6.45
	Tin	36 (91.44)	GR	H8PPS-1436G-ND	8.50	6.45
16	Gold	6 (15.24)	MC	H8PPH-1606M-ND	8.08	6.13
	Tin	6 (15.24)	MC	H8PPS-1606M-ND	8.08	6.13
	Gold	6 (15.24)	GR	H8PPH-1606G-ND	7.64	5.80
	Tin	6 (15.24)	GR	H8PPS-1606G-ND	7.64	5.80
	Gold	18 (45.72)	MC	H8PPH-1618M-ND	9.37	7.10
	Tin	18 (45.72)	MC	H8PPS-1618M-ND	9.37	7.10
	Gold	18 (45.72)	GR	H8PPH-1618G-ND	8.05	6.10
	Tin	18 (45.72)	GR	H8PPS-1618G-ND	8.05	6.10
	Gold	36 (91.44)	MC	H8PPH-1636M-ND	11.29	8.56
	Tin	36 (91.44)	MC	H8PPS-1636M-ND	11.29	8.56
	Gold	36 (91.44)	GR	H8PPH-1636G-ND	8.65	6.56
	Tin	36 (91.44)	GR	H8PPS-1636G-ND	8.65	6.56
20	Gold	6 (15.24)	MC	H8PPH-2006M-ND	9.61	7.29
	Tin	6 (15.24)	MC	H8PPS-2006M-ND	9.61	7.29
	Gold	6 (15.24)	GR	H8PPH-2006G-ND	9.09	6.90
	Tin	6 (15.24)	GR	H8PPS-2006G-ND	9.09	6.90
	Gold	18 (45.72)	MC	H8PPH-2018M-ND	11.21	8.50
	Tin	18 (45.72)	MC	H8PPS-2018M-ND	11.21	8.50
	Gold	18 (45.72)	GR	H8PPH-2018G-ND	9.66	7.33
	Tin	18 (45.72)	GR	H8PPS-2018G-ND	9.66	7.33
	Gold	36 (91.44)	MC	H8PPH-2036M-ND	13.62	10.33
	Tin	36 (91.44)	MC	H8PPS-2036M-ND	13.62	10.33
	Gold	36 (91.44)	GR	H8PPH-2036G-ND	10.52	7.98
	Tin	36 (91.44)	GR	H8PPS-2036G-ND	10.52	7.98
24	Gold	6 (15.24)	MC	H8PPH-2406M-ND	10.30	7.81
	Tin	6 (15.24)	MC	H8PPS-2406M-ND	10.30	7.81
	Gold	6 (15.24)	GR	H8PPH-2406G-ND	9.57	7.26
	Tin	6 (15.24)	GR	H8PPS-2406G-ND	9.57	7.26
	Gold	18 (45.72)	MC	H8PPH-2418M-ND	12.31	9.33
	Tin	18 (45.72)	MC	H8PPS-2418M-ND	12.31	9.33
	Gold	18 (45.72)	GR	H8PPH-2418G-ND	10.11	7.67
	Tin	18 (45.72)	GR	H8PPS-2418G-ND	10.11	7.67
	Gold	36 (91.44)	MC	H8PPH-2436M-ND	15.32	11.61
	Tin	36 (91.44)	MC	H8PPS-2436M-ND	15.32	11.61
	Gold	36 (91.44)	GR	H8PPH-2436G-ND	10.91	8.28
	Tin	36 (91.44)	GR	H8PPS-2436G-ND	10.91	8.28
40	Gold	6 (15.24)	MC	H8PPH-4006M-ND	13.26	10.06
	Tin	6 (15.24)	MC	H8PPS-4006M-ND	13.26	10.06
	Gold	6 (15.24)	GR	H8PPH-4006G-ND	12.19	9.24
	Tin	6 (15.24)	GR	H8PPS-4006G-ND	12.19	9.24
	Gold	18 (45.72)	MC	H8PPH-4018M-ND	16.47	12.49
	Tin	18 (45.72)	MC	H8PPS-4018M-ND	16.47	12.49
	Gold	18 (45.72)	GR	H8PPH-4018G-ND	13.25	10.05
	Tin	18 (45.72)	GR	H8PPS-4018G-ND	13.25	10.05

(Continued)

ASSMANN

Dip Plug Cable Assemblies

Double Ended Style 8 *(Cont.)*

No. of Con-tacts	Contact Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
40	Gold	36 (91.44)	MC	H8PPH-4036M-ND	21.28	16.14
	Tin	36 (91.44)	MC	H8PPS-4036M-ND	21.28	16.14
	Gold	36 (91.44)	GR	H8PPH-4036G-ND	14.85	11.26
	Tin	36 (91.44)	GR	H8PPS-4036G-ND	14.85	11.26

Double Ended Style 0

*MC=Multi-Color,
GR=Gray

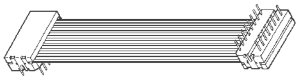

Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

No. of Con-tacts	Contact Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	6 (15.24)	MC	H0PPH-1006M-ND	6.85	5.20
	Tin	6 (15.24)	MC	H0PPS-1006M-ND	6.85	5.20
	Gold	6 (15.24)	GR	H0PPH-1006G-ND	6.57	4.99
	Tin	6 (15.24)	GR	H0PPS-1006G-ND	6.57	4.99
	Gold	18 (45.72)	MC	H0PPH-1018M-ND	7.65	5.80
	Tin	18 (45.72)	MC	H0PPS-1018M-ND	7.65	5.80
	Gold	18 (45.72)	GR	H0PPH-1018G-ND	6.83	5.18
	Tin	18 (45.72)	GR	H0PPS-1018G-ND	6.83	5.18
	Gold	36 (91.44)	MC	H0PPH-1036M-ND	8.85	6.72
	Tin	36 (91.44)	MC	H0PPS-1036M-ND	8.85	6.72
	Gold	36 (91.44)	GR	H0PPH-1036G-ND	7.21	5.47
	Tin	36 (91.44)	GR	H0PPS-1036G-ND	7.21	5.47
14	Gold	6 (15.24)	MC	H0PPH-1406M-ND	8.04	6.10
	Tin	6 (15.24)	MC	H0PPS-1406M-ND	8.04	6.10
	Gold	6 (15.24)	GR	H0PPH-1406G-ND	7.62	5.78
	Tin	6 (15.24)	GR	H0PPS-1406G-ND	7.62	5.78
	Gold	18 (45.72)	MC	H0PPH-1418M-ND	9.24	7.01
	Tin	18 (45.72)	MC	H0PPS-1418M-ND	9.24	7.01
	Gold	18 (45.72)	GR	H0PPH-1418G-ND	7.97	6.05
	Tin	18 (45.72)	GR	H0PPS-1418G-ND	7.97	6.05
	Gold	36 (91.44)	MC	H0PPH-1436M-ND	11.05	8.38
	Tin	36 (91.44)	MC	H0PPS-1436M-ND	11.05	8.38
	Gold	36 (91.44)	GR	H0PPH-1436G-ND	8.50	6.45
	Tin	36 (91.44)	GR	H0PPS-1436G-ND	8.50	6.45
16	Gold	6 (15.24)	MC	H0PPH-1606M-ND	8.08	6.13
	Tin	6 (15.24)	MC	H0PPS-1606M-ND	8.08	6.13
	Gold	6 (15.24)	GR	H0PPH-1606G-ND	7.64	5.80
	Tin	6 (15.24)	GR	H0PPS-1606G-ND	7.64	5.80
	Gold	18 (45.72)	MC	H0PPH-1618M-ND	9.37	7.10
	Tin	18 (45.72)	MC	H0PPS-1618M-ND	9.37	7.10
	Gold	18 (45.72)	GR	H0PPH-1618G-ND	8.05	6.10
	Tin	18 (45.72)	GR	H0PPS-1618G-ND	8.05	6.10
	Gold	36 (91.44)	MC	H0PPH-1636M-ND	11.29	8.56
	Tin	36 (91.44)	MC	H0PPS-1636M-ND	11.29	8.56
	Gold	36 (91.44)	GR	H0PPH-1636G-ND	8.65	6.56
	Tin	36 (91.44)	GR	H0PPS-1636G-ND	8.65	6.56
20	Gold	6 (15.24)	MC	H0PPH-2006M-ND	9.61	7.29
	Tin	6 (15.24)	MC	H0PPS-2006M-ND	9.61	7.29
	Gold	6 (15.24)	GR	H0PPH-2006G-ND	9.09	6.90
	Tin	6 (15.24)	GR	H0PPS-2006G-ND	9.09	6.90
	Gold	18 (45.72)	MC	H0PPH-2018M-ND	11.21	8.50
	Tin	18 (45.72)	MC	H0PPS-2018M-ND	11.21	8.50
	Gold	18 (45.72)	GR	H0PPH-2018G-ND	9.66	7.33
	Tin	18 (45.72)	GR	H0PPS-2018G-ND	9.66	7.33
	Gold	36 (91.44)	MC	H0PPH-2036M-ND	13.62	10.33
	Tin	36 (91.44)	MC	H0PPS-2036M-ND	13.62	10.33
	Gold	36 (91.44)	GR	H0PPH-2036G-ND	10.52	7.98
	Tin	36 (91.44)	GR	H0PPS-2036G-ND	10.52	7.98
24	Gold	6 (15.24)	MC	H0PPH-2406M-ND	10.30	7.81
	Tin	6 (15.24)	MC	H0PPS-2406M-ND	10.30	7.81
	Gold	6 (15.24)	GR	H0PPH-2406G-ND	9.57	7.26
	Tin	6 (15.24)	GR	H0PPS-2406G-ND	9.57	7.26
	Gold	18 (45.72)	MC	H0PPH-2418M-ND	12.31	9.33
	Tin	18 (45.72)	MC	H0PPS-2418M-ND	12.31	9.33
	Gold	18 (45.72)	GR	H0PPH-2418G-ND	10.11	7.67
	Tin	18 (45.72)	GR	H0PPS-2418G-ND	10.11	7.67
	Gold	36 (91.44)	MC	H0PPH-2436M-ND	15.32	11.61
	Tin	36 (91.44)	MC	H0PPS-2436M-ND	15.32	11.61
	Gold	36 (91.44)	GR	H0PPH-2436G-ND	10.91	8.28
	Tin	36 (91.44)	GR	H0PPS-2436G-ND	10.91	8.28
40	Gold	6 (15.24)	MC	H0PPH-4006M-ND	13.26	10.06
	Tin	6 (15.24)	MC	H0PPS-4006M-ND	13.26	10.06
	Gold	6 (15.24)	GR	H0PPH-4006G-ND	12.19	9.24
	Tin	6 (15.24)	GR	H0PPS-4006G-ND	12.19	9.24
	Gold	18 (45.72)	MC	H0PPH-4018M-ND	16.47	12.49
	Tin	18 (45.72)	MC	H0PPS-4018M-ND	16.47	12.49
	Gold	18 (45.72)	GR	H0PPH-4018G-ND	13.25	10.05
	Tin	18 (45.72)	GR	H0PPS-4018G-ND	13.25	10.05
	Gold	36 (91.44)	MC	H0PPH-4036M-ND	21.28	16.14
	Tin	36 (91.44)	MC	H0PPS-4036M-ND	21.28	16.14
	Gold	36 (91.44)	GR	H0PPH-4036G-ND	14.85	11.26
	Tin	36 (91.44)	GR	H0PPS-4036G-ND	14.85	11.26

Socket Connectors

Specifications:
• **Current Rating:** 3.0A • **Voltage Rating:** 550V AC/DC • **Contact Resistance:** 20mΩ Maximum • **Withstand Voltage:** 1000V AC/DC • **Insulation Resistance:** 1000MΩ Minimum • **Operation Temperature:** -40°C ~ 105°C

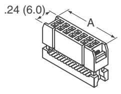

Without Polarizing Key

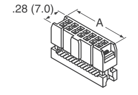

With Polarizing Key

No. of Con-tacts	Dim. A Inch (mm)	Con-tact Finish	Digi-Key Part No.	Price Each 1	10	Assmann Part No.
Socket Connector without Polarizing Key						
10	.678 (17.26)	Gold	HSC10H-ND	1.05	.80	AWP10-8240-T-R
10	.678 (17.26)	Tin	HSC10S-ND	1.05	.80	AWP10-8540-T-R
14	.878 (22.34)	Gold	HSC14H-ND	1.24	.94	AWP14-8240-T-R
14	.878 (22.34)	Tin	HSC14S-ND	1.24	.94	AWP14-8540-T-R
16	.978 (24.88)	Gold	HSC16H-ND	1.24	.94	AWP16-8240-T-R
16	.978 (24.88)	Tin	HSC16S-ND	1.24	.94	AWP16-8540-T-R
20	1.177 (29.96)	Gold	HSC20H-ND	1.24	.94	AWP20-8240-T-R
20	1.177 (29.96)	Tin	HSC20S-ND	1.24	.94	AWP20-8540-T-R
24	1.377 (35.04)	Gold	HSC24H-ND	1.67	1.27	AWP24-8240-T-R
24	1.377 (35.04)	Tin	HSC24S-ND	1.67	1.27	AWP24-8540-T-R
26	1.477 (37.58)	Gold	HSC26H-ND	1.24	.94	AWP26-8240-T-R
26	1.477 (37.58)	Tin	HSC26S-ND	1.24	.94	AWP26-8540-T-R
30	1.677 (42.66)	Gold	HSC30H-ND	1.67	1.27	AWP30-8240-T-R
30	1.677 (42.66)	Tin	HSC30S-ND	1.67	1.27	AWP30-8540-T-R
34	1.876 (47.74)	Gold	HSC34H-ND	1.24	.94	AWP34-8240-T-R
34	1.876 (47.74)	Tin	HSC34S-ND	1.24	.94	AWP34-8540-T-R
40	2.176 (55.36)	Gold	HSC40H-ND	1.49	1.13	AWP40-8240-T-R
40	2.176 (55.36)	Tin	HSC40S-ND	1.49	1.13	AWP40-8540-T-R
50	2.675 (68.06)	Gold	HSC50H-ND	1.86	1.41	AWP50-8240-T-R
50	2.675 (68.06)	Tin	HSC50S-ND	1.86	1.41	AWP50-8540-T-R
60	3.174 (80.74)	Gold	HSC60H-ND	3.35	2.54	AWP60-8240-T-R
60	3.174 (80.74)	Tin	HSC60S-ND	3.35	2.54	AWP60-8540-T-R
64	3.373 (85.82)	Gold	HSC64H-ND	5.83	4.42	AWP64-8240-T-R
64	3.373 (85.82)	Tin	HSC64S-ND	5.83	4.42	AWP64-8540-T-R
Socket Connector with Strain Relief and without Polarizing Key						
10	.678 (17.26)	Gold	HSR10H-ND	1.05	.80	AWP10-8241-T-R
10	.678 (17.26)	Tin	HSR10S-ND	1.05	.80	AWP10-8541-T-R
14	.878 (22.34)	Gold	HSR14H-ND	1.49	1.13	AWP14-8241-T-R
14	.878 (22.34)	Tin	HSR14S-ND	1.49	1.13	AWP14-8541-T-R
16	.978 (24.88)	Gold	HSR16H-ND	1.49	1.13	AWP16-8241-T-R
16	.978 (24.88)	Tin	HSR16S-ND	1.49	1.13	AWP16-8541-T-R
20	1.177 (29.96)	Gold	HSR20H-ND	1.49	1.13	AWP20-8241-T-R
20	1.177 (29.96)	Tin	HSR20S-ND	1.49	1.13	AWP20-8541-T-R
24	1.377 (35.04)	Gold	HSR24H-ND	1.86	1.41	AWP24-8241-T-R
24	1.377 (35.04)	Tin	HSR24S-ND	1.86	1.41	AWP24-8541-T-R
26	1.477 (37.58)	Gold	HSR26H-ND	1.49	1.13	AWP26-8241-T-R
26	1.477 (37.58)	Tin	HSR26S-ND	1.49	1.13	AWP26-8541-T-R
30	1.677 (42.66)	Gold	HSR30H-ND	1.86	1.41	AWP30-8241-T-R
30	1.677 (42.66)	Tin	HSR30S-ND	1.86	1.41	AWP30-8541-T-R
34	1.876 (47.74)	Gold	HSR34H-ND	1.55	1.18	AWP34-8241-T-R
34	1.876 (47.74)	Tin	HSR34S-ND	1.49	1.13	AWP34-8541-T-R
40	2.176 (55.36)	Gold	HSR40H-ND	1.67	1.27	AWP40-8241-T-R
40	2.176 (55.36)	Tin	HSR40S-ND	1.67	1.27	AWP40-8541-T-R
50	2.675 (68.06)	Gold	HSR50H-ND	2.23	1.70	AWP50-8241-T-R
50	2.675 (68.06)	Tin	HSR50S-ND	2.11	1.60	AWP50-8541-T-R
60	3.174 (80.74)	Gold	HSR60H-ND	3.97	3.01	AWP60-8241-T-R
60	3.174 (80.74)	Tin	HSR60S-ND	3.97	3.01	AWP60-8541-T-R
64	3.373 (85.82)	Gold	HSR64H-ND	7.13	5.41	AWP64-8241-T-R
64	3.373 (85.82)	Tin	HSR64S-ND	7.13	5.41	AWP64-8541-T-R
Socket Connector with Polarizing Key						
10	.678 (17.26)	Gold	HKC10H-ND	1.05	.80	AWP10-7240-T-R
10	.678 (17.26)	Tin	HKC10S-ND	1.05	.80	AWP10-7540-T-R
14	.878 (22.34)	Gold	HKC14H-ND	1.24	.94	AWP14-7240-T-R
14	.878 (22.34)	Tin	HKC14S-ND	1.24	.94	AWP14-7540-T-R
16	.978 (24.88)	Gold	HKC16H-ND	1.24	.94	AWP16-7240-T-R
16	.978 (24.88)	Tin	HKC16S-ND	1.24	.94	AWP16-7540-T-R
20	1.177 (29.96)	Gold	HKC20H-ND	1.24	.94	AWP20-7240-T-R
20	1.177 (29.96)	Tin	HKC20S-ND	1.24	.94	AWP20-7540-T-R
24	1.377 (35.04)	Gold	HKC24H-ND	1.67	1.27	AWP24-7240-T-R
24	1.377 (35.04)	Tin	HKC24S-ND	1.67	1.27	AWP24-7540-T-R
26	1.477 (37.58)	Gold	HKC26H-ND	1.24	.94	AWP26-7240-T-R
26	1.477 (37.58)	Tin	HKC26S-ND	1.24	.94	AWP26-7540-T-R
30	1.677 (42.66)	Gold	HKC30H-ND	1.67	1.27	AWP30-7240-T-R
30	1.677 (42.66)	Tin	HKC30S-ND	1.67	1.27	AWP30-7540-T-R
34	1.876 (47.74)	Gold	HKC34H-ND	1.24	.94	AWP34-7240-T-R
34	1.876 (47.74)	Tin	HKC34S-ND	1.24	.94	AWP34-7540-T-R
40	2.176 (55.36)	Gold	HKC40H-ND	1.49	1.13	AWP40-7240-T-R
40	2.176 (55.36)	Tin	HKC40S-ND	1.49	1.13	AWP40-7540-T-R
50	2.675 (68.06)	Gold	HKC50H-ND	1.86	1.41	AWP50-7240-T-R
50	2.675 (68.06)	Tin	HKC50S-ND	1.86	1.41	AWP50-7540-T-R
60	3.174 (80.74)	Gold	HKC60H-ND	3.35	2.54	AWP60-7240-T-R
60	3.174 (80.74)	Tin	HKC60S-ND	3.35	2.54	AWP60-7540-T-R
64	3.373 (85.82)	Gold	HKC64H-ND	5.83	4.42	AWP64-7240-T-R
64	3.373 (85.82)	Tin	HKC64S-ND	5.83	4.42	AWP64-7540-T-R
Socket Connector with Strain Relief and Polarizing Key						
10	.678 (17.26)	Gold	HKR10H-ND	1.05	.80	AWP10-7241-T-R
10	.678 (17.26)	Tin	HKR10S-ND	1.05	.80	AWP10-7541-T-R
14	.878 (22.34)	Gold	HKR14H-ND	1.49	1.13	AWP14-7241-T-R
14	.878 (22.34)	Tin	HKR14S-ND	1.49	1.13	AWP14-7541-T-R
16	.978 (24.88)	Gold	HKR16H-ND	1.49	1.13	AWP16-7241-T-R
16	.978 (24.88)	Tin	HKR16S-ND	1.49	1.13	AWP16-7541-T-R
20	1.177 (29.96)	Gold	HKR20H-ND	1.49	1.13	AWP20-7241-T-R
20	1.177 (29.96)	Tin	HKR20S-ND	1.49	1.13	AWP20-7541-T-R
24	1.377 (35.04)	Gold	HKR24H-ND	1.86	1.41	AWP24-7241-T-R
24	1.377 (35.04)	Tin	HKR24S-ND	1.86	1.41	AWP24-7541-T-R
26	1.477 (37.58)	Gold	HKR26H-ND	1.49	1.13	AWP26-7241-T-R
26	1.477 (37.58)	Tin	HKR26S-ND	1.49	1.13	AWP26-7541-T-R
30	1.677 (42.66)	Gold	HKR30H-ND	1.86	1.41	AWP30-7241-T-R
30	1.677 (42.66)	Tin	HKR30S-ND	1.86	1.41	AWP30-7541-T-R
34	1.876 (47.74)	Gold	HKR34H-ND	1.49	1.13	AWP34-7241-T-R
34	1.876 (47.74)	Tin	HKR34S-ND	1.49	1.13	AWP34-7541-T-R
40	2.176 (55.36)	Gold	HKR40H-ND	1.67	1.27	AWP40-7241-T-R
40	2.176 (55.36)	Tin	HKR40S-ND	1.67	1.27	AWP40-7541-T-R
50	2.675 (68.06)	Gold	HKR50H-ND	2.11	1.60	AWP50-7241-T-R
50	2.675 (68.06)	Tin	HKR50S-ND	2.11	1.60	AWP50-7541-T-R
60	3.174 (80.74)	Gold	HKR60H-ND	3.97	3.01	AWP60-7241-T-R
60	3.174 (80.74)	Tin	HKR60S-ND	3.97	3.01	AWP60-7541-T-R
64	3.373 (85.82)	Gold	HKR64H-ND	7.13	5.41	AWP64-7241-T-R
64	3.373 (85.82)	Tin	HKR64S-ND	7.13	5.41	AWP64-7541-T-R

H□ □ □ □-□ □ □ □ □-ND

Style
1□□=Single Ended
3□□=Double Ended

Contact Finish
H = Gold
S = Tin

No. of Contacts

Length
(***Use "Inches" only.***)

Ribbon Cable
M=Multi-Color
G=Gray

Socket Assemblies

Single Ended Socket

*MC=Multi-Color,
GR=Gray

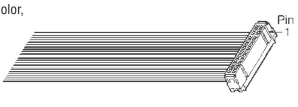

Without Polarizing Key without Strain Relief Shown

No. of Con-tacts	Contact Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	36 (91.44)	MC	H1AXH-1036M-ND	3.46	2.63
	Tin	36 (91.44)	MC	H1AXS-1036M-ND	3.46	2.63
	Gold	36 (91.44)	GR	H1AXH-1036G-ND	1.81	1.38
	Tin	36 (91.44)	GR	H1AXS-1036G-ND	1.81	1.38
14	Gold	36 (91.44)	MC	H1AXH-1436M-ND	4.85	3.68
	Tin	36 (91.44)	MC	H1AXS-1436M-ND	4.85	3.68
	Gold	36 (91.44)	GR	H1AXH-1436G-ND	2.30	1.75
	Tin	36 (91.44)	GR	H1AXS-1436G-ND	2.30	1.75
16	Gold	36 (91.44)	MC	H1AXH-1636M-ND	5.09	3.86
	Tin	36 (91.44)	MC	H1AXS-1636M-ND	5.09	3.86
	Gold	36 (91.44)	GR	H1AXH-1636G-ND	2.45	1.86
	Tin	36 (91.44)	GR	H1AXS-1636G-ND	2.45	1.86
20	Gold	36 (91.44)	MC	H1AXH-2036M-ND	6.05	4.59
	Tin	36 (91.44)	MC	H1AXS-2036M-ND	6.05	4.59
	Gold	36 (91.44)	GR	H1AXH-2036G-ND	2.96	2.25
	Tin	36 (91.44)	GR	H1AXS-2036G-ND	2.96	2.25
24	Gold	36 (91.44)	MC	H1AXH-2436M-ND	7.69	5.83
	Tin	36 (91.44)	MC	H1AXS-2436M-ND	7.69	5.83
	Gold	36 (91.44)	GR	H1AXH-2436G-ND	3.29	2.50
	Tin	36 (91.44)	GR	H1AXS-2436G-ND	3.29	2.50
26	Gold	36 (91.44)	MC	H1AXH-2636M-ND	7.50	5.69
	Tin	36 (91.44)	MC	H1AXS-2636M-ND	7.50	5.69
	Gold	36 (91.44)	GR	H1AXH-2636G-ND	3.36	2.55
	Tin	36 (91.44)	GR	H1AXS-2636G-ND	3.36	2.55
30	Gold	36 (91.44)	MC	H1AXH-3036M-ND	9.86	7.48
	Tin	36 (91.44)	MC	H1AXS-3036M-ND	9.86	7.48
	Gold	36 (91.44)	GR	H1AXH-3036G-ND	3.66	2.78
	Tin	36 (91.44)	GR	H1AXS-3036G-ND	3.66	2.78
34	Gold	36 (91.44)	MC	H1AXH-3436M-ND	9.42	7.15
	Tin	36 (91.44)	MC	H1AXS-3436M-ND	9.42	7.15
	Gold	36 (91.44)	GR	H1AXH-3436G-ND	3.53	2.68
	Tin	36 (91.44)	GR	H1AXS-3436G-ND	3.53	2.68
40	Gold	36 (91.44)	MC	H1AXH-4036M-ND	11.11	8.43
	Tin	36 (91.44)	MC	H1AXS-4036M-ND	11.11	8.43
	Gold	36 (91.44)	GR	H1AXH-4036G-ND	4.69	3.56
	Tin	36 (91.44)	GR	H1AXS-4036G-ND	4.69	3.56
50	Gold	36 (91.44)	MC	H1AXH-5036M-ND	13.89	10.54
	Tin	36 (91.44)	MC	H1AXS-5036M-ND	13.89	10.54
	Gold	36 (91.44)	GR	H1AXH-5036G-ND	5.22	3.96
	Tin	36 (91.44)	GR	H1AXS-5036G-ND	5.22	3.96
60	Gold	36 (91.44)	MC	H1AXH-6036M-ND	17.79	13.49
	Tin	36 (91.44)	MC	H1AXS-6036M-ND	17.79	13.49
	Gold	36 (91.44)	GR	H1AXH-6036G-ND	7.90	5.99
	Tin	36 (91.44)	GR	H1AXS-6036G-ND	7.90	5.99
64	Gold	36 (91.44)	MC	H1AXH-6436M-ND	21.23	16.10
	Tin	36 (91.44)	MC	H1AXS-6436M-ND	21.23	16.10
	Gold	36 (91.44)	GR	H1AXH-6436G-ND	10.13	7.69
	Tin	36 (91.44)	GR	H1AXS-6436G-ND	10.13	7.69

Also available in the following configuration:
H1BX□-□□□□□-ND - Without polarizing key, With Strain Relief
H1CX□-□□□□□-ND - With polarizing key, Without Strain Relief
H1DX□-□□□□□-ND - With polarizing key, With Strain Relief
Call for complete part number and pricing

(Continued)

ASSMANN

Socket Assemblies *(Cont.)*

Double Ended Socket

*MC=Multi-Color,
GR=Gray

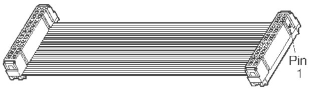

Without Polarizing Key without Strain Relief Shown

No. of Con-tacts	Contact Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	6 (15.24)	MC	H3AAH-1006M-ND	2.51	1.91
	Tin	6 (15.24)	MC	H3AAS-1006M-ND	2.51	1.91
	Gold	6 (15.24)	GR	H3AAH-1006G-ND	2.23	1.70
	Tin	6 (15.24)	GR	H3AAS-1006G-ND	2.23	1.70
	Gold	18 (45.72)	MC	H3AAH-1018M-ND	4.51	3.43
	Tin	18 (45.72)	MC	H3AAS-1018M-ND	4.51	3.43
	Gold	18 (45.72)	GR	H3AAH-1018G-ND	2.87	2.18
	Tin	18 (45.72)	GR	H3AAS-1018G-ND	2.87	2.18
	Gold	36 (91.44)	MC	H3AAH-1036M-ND	4.51	3.43
	Tin	36 (91.44)	MC	H3AAS-1036M-ND	4.51	3.43
	Gold	36 (91.44)	GR	H3AAH-1036G-ND	2.87	2.18
	Tin	36 (91.44)	GR	H3AAS-1036G-ND	2.87	2.18
14	Gold	6 (15.24)	MC	H3AAH-1406M-ND	3.08	2.34
	Tin	6 (15.24)	MC	H3AAS-1406M-ND	3.08	2.34
	Gold	6 (15.24)	GR	H3AAH-1406G-ND	2.66	2.02
	Tin	6 (15.24)	GR	H3AAS-1406G-ND	2.66	2.02
	Gold	18 (45.72)	MC	H3AAH-1418M-ND	6.09	4.62
	Tin	18 (45.72)	MC	H3AAS-1418M-ND	6.09	4.62
	Gold	18 (45.72)	GR	H3AAH-1418G-ND	3.54	2.69
	Tin	18 (45.72)	GR	H3AAS-1418G-ND	3.54	2.69
	Gold	36 (91.44)	MC	H3AAH-1436M-ND	6.09	4.62
	Tin	36 (91.44)	MC	H3AAS-1436M-ND	6.09	4.62
	Gold	36 (91.44)	GR	H3AAH-1436G-ND	3.54	2.69
	Tin	36 (91.44)	GR	H3AAS-1436G-ND	3.54	2.69
16	Gold	6 (15.24)	MC	H3AAH-1606M-ND	3.12	2.37
	Tin	6 (15.24)	MC	H3AAS-1606M-ND	3.12	2.37
	Gold	6 (15.24)	GR	H3AAH-1606G-ND	2.68	2.04
	Tin	6 (15.24)	GR	H3AAS-1606G-ND	2.68	2.04
	Gold	18 (45.72)	MC	H3AAH-1618M-ND	6.33	4.80
	Tin	18 (45.72)	MC	H3AAS-1618M-ND	6.33	4.80
	Gold	18 (45.72)	GR	H3AAH-1618G-ND	3.69	2.80
	Tin	18 (45.72)	GR	H3AAS-1618G-ND	3.69	2.80
	Gold	36 (91.44)	MC	H3AAH-1636M-ND	6.33	4.80
	Tin	36 (91.44)	MC	H3AAS-1636M-ND	6.33	4.80
	Gold	36 (91.44)	GR	H3AAH-1636G-ND	3.69	2.80
	Tin	36 (91.44)	GR	H3AAS-1636G-ND	3.69	2.80
20	Gold	6 (15.24)	MC	H3AAH-2006M-ND	3.28	2.49
	Tin	6 (15.24)	MC	H3AAS-2006M-ND	3.28	2.49
	Gold	6 (15.24)	GR	H3AAH-2006G-ND	2.77	2.10
	Tin	6 (15.24)	GR	H3AAS-2006G-ND	2.77	2.10
	Gold	18 (45.72)	MC	H3AAH-2018M-ND	7.29	5.53
	Tin	18 (45.72)	MC	H3AAS-2018M-ND	7.29	5.53
	Gold	18 (45.72)	GR	H3AAH-2018G-ND	4.20	3.19
	Tin	18 (45.72)	GR	H3AAS-2018G-ND	4.20	3.19
	Gold	36 (91.44)	MC	H3AAH-2036M-ND	7.29	5.53
	Tin	36 (91.44)	MC	H3AAS-2036M-ND	7.29	5.53
	Gold	36 (91.44)	GR	H3AAH-2036G-ND	4.20	3.19
	Tin	36 (91.44)	GR	H3AAS-2036G-ND	4.20	3.19
24	Gold	6 (15.24)	MC	H3AAH-2406M-ND	4.35	3.30
	Tin	6 (15.24)	MC	H3AAS-2406M-ND	4.35	3.30
	Gold	6 (15.24)	GR	H3AAH-2406G-ND	3.62	2.75
	Tin	6 (15.24)	GR	H3AAS-2406G-ND	3.62	2.75
	Gold	18 (45.72)	MC	H3AAH-2418M-ND	9.36	7.10
	Tin	18 (45.72)	MC	H3AAS-2418M-ND	9.36	7.10
	Gold	18 (45.72)	GR	H3AAH-2418G-ND	4.96	3.77
	Tin	18 (45.72)	GR	H3AAS-2418G-ND	4.96	3.77
	Gold	36 (91.44)	MC	H3AAH-2436M-ND	9.36	7.10
	Tin	36 (91.44)	MC	H3AAS-2436M-ND	9.36	7.10
	Gold	36 (91.44)	GR	H3AAH-2436G-ND	4.96	3.77
	Tin	36 (91.44)	GR	H3AAS-2436G-ND	4.96	3.77
26	Gold	6 (15.24)	MC	H3AAH-2606M-ND	3.52	2.67
	Tin	6 (15.24)	MC	H3AAS-2606M-ND	3.52	2.67
	Gold	6 (15.24)	GR	H3AAH-2606G-ND	2.83	2.15
	Tin	6 (15.24)	GR	H3AAS-2606G-ND	2.83	2.15
	Gold	18 (45.72)	MC	H3AAH-2618M-ND	8.74	6.63
	Tin	18 (45.72)	MC	H3AAS-2618M-ND	8.74	6.63
	Gold	18 (45.72)	GR	H3AAH-2618G-ND	4.60	3.49
	Tin	18 (45.72)	GR	H3AAS-2618G-ND	4.60	3.49
	Gold	36 (91.44)	MC	H3AAH-2636M-ND	8.74	6.63
	Tin	36 (91.44)	MC	H3AAS-2636M-ND	8.74	6.63
	Gold	36 (91.44)	GR	H3AAH-2636G-ND	4.60	3.49
	Tin	36 (91.44)	GR	H3AAS-2636G-ND	4.60	3.49
30	Gold	6 (15.24)	MC	H3AAH-3006M-ND	4.71	3.58
	Tin	6 (15.24)	MC	H3AAS-3006M-ND	4.71	3.58
	Gold	6 (15.24)	GR	H3AAH-3006G-ND	3.68	2.79
	Tin	6 (15.24)	GR	H3AAS-3006G-ND	3.68	2.79
	Gold	18 (45.72)	MC	H3AAH-3018M-ND	11.53	8.74
	Tin	18 (45.72)	MC	H3AAS-3018M-ND	11.53	8.74
	Gold	18 (45.72)	GR	H3AAH-3018G-ND	5.33	4.05
	Tin	18 (45.72)	GR	H3AAS-3018G-ND	5.33	4.05
	Gold	36 (91.44)	MC	H3AAH-3036M-ND	11.53	8.74
	Tin	36 (91.44)	MC	H3AAS-3036M-ND	11.53	8.74
	Gold	36 (91.44)	GR	H3AAH-3036G-ND	5.33	4.05
	Tin	36 (91.44)	GR	H3AAS-3036G-ND	5.33	4.05
34	Gold	6 (15.24)	MC	H3AAH-3406M-ND	3.84	2.92
	Tin	6 (15.24)	MC	H3AAS-3406M-ND	3.84	2.92
	Gold	6 (15.24)	GR	H3AAH-3406G-ND	2.86	2.17
	Tin	6 (15.24)	GR	H3AAS-3406G-ND	2.86	2.17
	Gold	18 (45.72)	MC	H3AAH-3418M-ND	10.66	8.09
	Tin	6 (15.24)	MC	H3AAS-3418M-ND	10.66	8.09
	Gold	6 (15.24)	GR	H3AAH-3418G-ND	4.77	3.62
	Tin	6 (15.24)	GR	H3AAS-3418G-ND	4.77	3.62
	Gold	36 (91.44)	MC	H3AAH-3436M-ND	10.66	8.09
	Tin	36 (91.44)	MC	H3AAS-3436M-ND	10.66	8.09
	Gold	36 (91.44)	GR	H3AAH-3436G-ND	4.77	3.62
	Tin	36 (91.44)	GR	H3AAS-3436G-ND	4.77	3.62
40	Gold	6 (15.24)	MC	H3AAH-4006M-ND	4.58	3.48
	Tin	6 (15.24)	MC	H3AAS-4006M-ND	4.58	3.48
	Gold	6 (15.24)	GR	H3AAH-4006G-ND	3.51	2.66
	Tin	6 (15.24)	GR	H3AAS-4006G-ND	3.51	2.66
	Gold	18 (45.72)	MC	H3AAH-4018M-ND	12.60	9.56
	Tin	18 (45.72)	MC	H3AAS-4018M-ND	12.60	9.56
	Gold	18 (45.72)	GR	H3AAH-4018G-ND	6.17	4.68
	Tin	18 (45.72)	GR	H3AAS-4018G-ND	6.17	4.68
	Gold	36 (91.44)	MC	H3AAH-4036M-ND	12.60	9.56
	Tin	36 (91.44)	MC	H3AAS-4036M-ND	12.60	9.56
	Gold	36 (91.44)	GR	H3AAH-4036G-ND	6.17	4.68
	Tin	36 (91.44)	GR	H3AAS-4036G-ND	6.17	4.68
50	Gold	6 (15.24)	MC	H3AAH-5006M-ND	5.73	4.34
	Tin	6 (15.24)	MC	H3AAS-5006M-ND	5.73	4.34
	Gold	6 (15.24)	GR	H3AAH-5006G-ND	4.28	3.25
	Tin	6 (15.24)	GR	H3AAS-5006G-ND	4.28	3.25
	Gold	18 (45.72)	MC	H3AAH-5018M-ND	15.75	11.95
	Tin	18 (45.72)	MC	H3AAS-5018M-ND	15.75	11.95
	Gold	18 (45.72)	GR	H3AAH-5018G-ND	7.08	5.37
	Tin	18 (45.72)	GR	H3AAS-5018G-ND	7.08	5.37
	Gold	36 (91.44)	MC	H3AAH-5036M-ND	15.75	11.95
	Tin	36 (91.44)	MC	H3AAS-5036M-ND	15.75	11.95
	Gold	36 (91.44)	GR	H3AAH-5036G-ND	7.08	5.37
	Tin	36 (91.44)	GR	H3AAS-5036G-ND	7.08	5.37
60	Gold	6 (15.24)	MC	H3AAH-6006M-ND	9.10	6.90
	Tin	6 (15.24)	MC	H3AAS-6006M-ND	9.10	6.90
	Gold	6 (15.24)	GR	H3AAH-6006G-ND	7.45	5.66
	Tin	6 (15.24)	GR	H3AAS-6006G-ND	7.45	5.66
	Gold	18 (45.72)	MC	H3AAH-6018M-ND	21.13	16.03
	Tin	18 (45.72)	MC	H3AAS-6018M-ND	21.13	16.03
	Gold	18 (45.72)	GR	H3AAH-6018G-ND	11.25	8.53
	Tin	18 (45.72)	GR	H3AAS-6018G-ND	11.25	8.53
	Gold	36 (91.44)	MC	H3AAH-6036M-ND	21.13	16.03
	Tin	36 (91.44)	MC	H3AAS-6036M-ND	21.13	16.03
	Gold	36 (91.44)	GR	H3AAH-6036G-ND	11.25	8.53
	Tin	36 (91.44)	GR	H3AAS-6036G-ND	11.25	8.53
64	Gold	6 (15.24)	MC	H3AAH-6406M-ND	14.22	10.79
	Tin	6 (15.24)	MC	H3AAS-6406M-ND	14.22	10.79
	Gold	6 (15.24)	GR	H3AAH-6406G-ND	12.37	9.38
	Tin	6 (15.24)	GR	H3AAS-6406G-ND	12.37	9.38
	Gold	18 (45.72)	MC	H3AAH-6418M-ND	27.06	20.51
	Tin	18 (45.72)	MC	H3AAS-6418M-ND	27.06	20.51
	Gold	18 (45.72)	GR	H3AAH-6418G-ND	15.96	12.10
	Tin	18 (45.72)	GR	H3AAS-6418G-ND	15.96	12.10
	Gold	36 (91.44)	MC	H3AAH-6436M-ND	27.06	20.51
	Tin	36 (91.44)	MC	H3AAS-6436M-ND	27.06	20.51
	Gold	36 (91.44)	GR	H3AAH-6436G-ND	15.96	12.10
	Tin	36 (91.44)	GR	H3AAS-6436G-ND	15.96	12.10

Also available in the following configuration:
H3BB□-□□□□□-ND - Without polarizing key, With Strain Relief
H3CC□-□□□□□-ND - With polarizing key, Without Strain Relief
H3DD□-□□□□□-ND - With polarizing key, With Strain Relief
Call for complete part number and pricing

Headers

Specifications:

- **Current Rating:** 3A **• Withstand Voltage:** 1000V AC/minute **• Contact Resistance:** 20mΩ Maximum **• Contact Material:** Copper Alloy **• Underplate:** Nickel **• Contact Area:** Selective Gold **• Insulation Resistance:** 1000MΩ Minimum **• Solder Tails Area:** 100μ" Matte Tin
- **Operating Temperature:** -40°C ~ 105°C

Right Angle-Lead

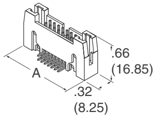

Straight-Lead

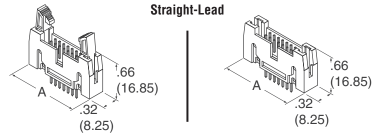

No. of Con-tacts	Post Length Inch(mm)	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50
Straight Pin Header without Latches							
10	.138 (3.5)	1.26 (31.9)	HVN10H-ND	1.39	1.22	1.10	.99
14	.138 (3.5)	1.46 (36.98)	HVN14H-ND	1.58	1.40	1.25	1.13
16	.138 (3.5)	1.56 (39.52)	HVN16H-ND	1.68	1.48	1.33	1.20
20	.138 (3.5)	1.76 (44.6)	HVN20H-ND	1.88	1.66	1.49	1.34
24	.138 (3.5)	1.96 (49.68)	HVN24H-ND	2.44	2.15	1.93	1.74
26	.138 (3.5)	2.05 (52.15)	HVN26H-ND	2.24	1.98	1.77	1.60
30	.138 (3.5)	2.26 (57.4)	HVN30H-ND	2.64	2.32	2.08	1.88
34	.138 (3.5)	2.46 (62.38)	HVN34H-ND	2.77	2.44	2.19	1.98
40	.138 (3.5)	2.76 (70)	HVN40H-ND	3.04	2.67	2.40	2.17
50	.138 (3.5)	3.26 (82.7)	HVN50H-ND	4.19	3.69	3.31	2.99
60	.138 (3.5)	3.76 (95.6)	HVN60H-ND	5.05	4.44	3.98	3.60
64	.138 (3.5)	3.96 (100.7)	HVN64H-ND	5.25	4.62	4.14	3.74
Straight Pin Header with Short Latches							
10	.138 (3.5)	1.26 (31.9)	HVS10H-ND	1.58	1.40	1.25	1.13
14	.138 (3.5)	1.46 (36.98)	HVS14H-ND	1.72	1.51	1.36	1.23
16	.138 (3.5)	1.56 (39.52)	HVS16H-ND	1.82	1.60	1.43	1.30
20	.138 (3.5)	1.76 (44.6)	HVS20H-ND	2.01	1.77	1.59	1.44
24	.138 (3.5)	1.96 (49.68)	HVS24H-ND	2.57	2.27	2.03	1.84
26	.138 (3.5)	2.05 (52.15)	HVS26H-ND	2.34	2.06	1.85	1.67
30	.138 (3.5)	2.26 (57.4)	HVS30H-ND	2.74	2.41	2.16	1.96
34	.138 (3.5)	2.46 (62.38)	HVS34H-ND	2.90	2.56	2.29	2.07
40	.138 (3.5)	2.76 (70)	HVS40H-ND	3.17	2.79	2.50	2.26
50	.138 (3.5)	3.26 (82.7)	HVS50H-ND	4.36	3.83	3.44	3.11
60	.138 (3.5)	3.76 (95.6)	HVS60H-ND	5.18	4.56	4.09	3.69
64	.138 (3.5)	3.96 (100.7)	HVS64H-ND	5.38	4.73	4.24	3.84
Straight Pin Header with Long Latches							
10	.138 (3.5)	1.26 (31.9)	HVL10H-ND	1.58	1.40	1.25	1.13
14	.138 (3.5)	1.46 (36.98)	HVL14H-ND	1.72	1.51	1.36	1.23
16	.138 (3.5)	1.56 (39.52)	HVL16H-ND	1.82	1.60	1.43	1.30
20	.138 (3.5)	1.76 (44.6)	HVL20H-ND	2.01	1.77	1.59	1.44
24	.138 (3.5)	1.96 (49.68)	HVL24H-ND	2.57	2.27	2.03	1.84
26	.138 (3.5)	2.05 (52.15)	HVL26H-ND	2.34	2.06	1.85	1.67
30	.138 (3.5)	2.26 (57.4)	HVL30H-ND	2.74	2.41	2.16	1.96
34	.138 (3.5)	2.46 (62.38)	HVL34H-ND	2.90	2.56	2.29	2.07
40	.138 (3.5)	2.76 (70)	HVL40H-ND	3.17	2.79	2.50	2.26
50	.138 (3.5)	3.26 (82.7)	HVL50H-ND	4.36	3.83	3.44	3.11
60	.138 (3.5)	3.76 (95.6)	HVL60H-ND	5.18	4.56	4.09	3.69
64	.138 (3.5)	3.96 (100.7)	HVL64H-ND	5.38	4.73	4.24	3.84
Right Angle Pin Header without Latches							
10	.169 (4.3)	1.26 (31.9)	HRN10H-ND	1.85	1.63	1.46	1.32
14	.169 (4.3)	1.46 (36.98)	HRN14H-ND	2.01	1.77	1.59	1.44
16	.169 (4.3)	1.56 (39.52)	HRN16H-ND	2.11	1.86	1.67	1.51
20	.169 (4.3)	1.76 (44.6)	HRN20H-ND	2.38	2.09	1.88	1.70
24	.169 (4.3)	1.96 (49.68)	HRN24H-ND	2.94	2.59	2.32	2.10
26	.169 (4.3)	2.05 (52.15)	HRN26H-ND	2.94	2.59	2.32	2.10
30	.169 (4.3)	2.26 (57.4)	HRN30H-ND	3.27	2.88	2.58	2.33
34	.169 (4.3)	2.46 (62.38)	HRN34H-ND	3.47	3.05	2.73	2.47
40	.169 (4.3)	2.76 (70)	HRN40H-ND	4.13	3.63	3.25	2.94
50	.169 (4.3)	3.26 (82.7)	HRN50H-ND	5.05	4.44	3.98	3.60
60	.169 (4.3)	3.76 (95.6)	HRN60H-ND	5.48	4.82	4.32	3.91
64	.169 (4.3)	3.96 (100.7)	HRN64H-ND	5.87	5.17	4.63	4.19
Right Angle Pin Header with Short Latches							
10	.169 (4.3)	1.26 (31.9)	HRS10H-ND	1.98	1.74	1.56	1.41
14	.169 (4.3)	1.46 (36.98)	HRS14H-ND	2.15	1.89	1.69	1.53
16	.169 (4.3)	1.56 (39.52)	HRS16H-ND	2.24	1.98	1.77	1.60
20	.169 (4.3)	1.76 (44.6)	HRS20H-ND	2.54	2.24	2.01	1.81
24	.169 (4.3)	1.96 (49.68)	HRS24H-ND	3.07	2.70	2.42	2.19
26	.169 (4.3)	2.05 (52.15)	HRS26H-ND	3.07	2.70	2.42	2.19
30	.169 (4.3)	2.26 (57.4)	HRS30H-ND	3.43	3.02	2.71	2.45
34	.169 (4.3)	2.46 (62.38)	HRS34H-ND	3.56	3.14	2.81	2.54
40	.169 (4.3)	2.76 (70)	HRS40H-ND	4.26	3.75	3.36	3.04
50	.169 (4.3)	3.26 (82.7)	HRS50H-ND	5.18	4.56	4.09	3.69
60	.169 (4.3)	3.76 (95.6)	HRS60H-ND	5.58	4.91	4.40	3.98
64	.169 (4.3)	3.96 (100.7)	HRS64H-ND	6.04	5.31	4.76	4.31
Right Angle Pin Header with Long Latches							
10	.169 (4.3)	1.26 (31.9)	HRL10H-ND	1.98	1.74	1.56	1.41
14	.169 (4.3)	1.46 (36.98)	HRL14H-ND	2.15	1.89	1.69	1.53
16	.169 (4.3)	1.56 (39.52)	HRL16H-ND	2.24	1.98	1.77	1.60
20	.169 (4.3)	1.76 (44.6)	HRL20H-ND	2.54	2.24	2.01	1.81
24	.169 (4.3)	1.96 (49.68)	HRL24H-ND	3.07	2.70	2.42	2.19
26	.169 (4.3)	2.05 (52.15)	HRL26H-ND	3.07	2.70	2.42	2.19
30	.169 (4.3)	2.26 (57.4)	HRL30H-ND	3.43	3.02	2.71	2.45
34	.169 (4.3)	2.46 (62.38)	HRL34H-ND	3.56	3.14	2.81	2.54
40	.169 (4.3)	2.76 (70)	HRL40H-ND	4.26	3.75	3.36	3.04
50	.169 (4.3)	3.26 (82.7)	HRL50H-ND	5.18	4.56	4.09	3.69
60	.169 (4.3)	3.76 (95.6)	HRL60H-ND	5.58	4.91	4.40	3.98
64	.169 (4.3)	3.96 (100.7)	HRL64H-ND	6.04	5.31	4.76	4.31
Lock Ejector Hooks (2 Required per Connector)							
—	Hooks - Long		AE1491-ND	.17	.15	.13	.12
—	Hooks - Short		AE1492-ND	.17	.15	.13	.12

Low Profile Headers

Specifications:

- **Current Rating:** 3A **• Withstand Voltage:** 1000V AC/DC **• Contact Resistance:** 20mΩ Maximum **• Contact Material:** Copper Alloy **• Underplate:** Nickel **• Contact Area:** Selective Gold **• Insulation Resistance:** 1000MΩ Minimum **• Solder Tails Area:** 100μ" Matte Tin **• Operation Temperature:** -40°C ~ 105°C

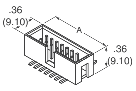

SMT

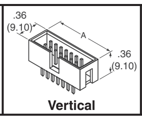

Vertical

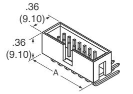

Right Angle

No. of Con-tacts	Contact Finish Gold	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50
Pin Header Right Angle							
10	30u"	.8 (20.2)	HLU10H-ND	2.08	1.83	1.64	1.49
10	Flash	.8 (20.2)	HLN10H-ND	.89	.79	.71	.64
14	30u"	1 (25.28)	HLU14H-ND	2.81	2.47	2.21	2.00
14	Flash	1 (25.28)	HLN14H-ND	1.09	.96	.86	.78
16	30u"	1.1 (27.82)	HLU16H-ND	3.10	2.73	2.45	2.21
16	Flash	1.1 (27.82)	HLN16H-ND	1.19	1.05	.94	.85
20	30u"	1.3 (32.9)	HLU20H-ND	3.76	3.31	2.97	2.68
20	Flash	1.3 (32.9)	HLN20H-ND	1.39	1.22	1.10	.99
24	30u"	1.5 (37.98)	HLU24H-ND	4.52	3.98	3.57	3.22
24	Flash	1.5 (37.98)	HLN24H-ND	1.65	1.45	1.30	1.18
26	30u"	1.6 (40.52)	HLU26H-ND	4.82	4.24	3.80	3.44
26	Flash	1.6 (40.52)	HLN26H-ND	1.72	1.51	1.36	1.23
30	30u"	1.8 (45.6)	HLU30H-ND	5.61	4.93	4.42	4.00
30	Flash	1.8 (45.6)	HLN30H-ND	2.05	1.80	1.62	1.46
34	30u"	2 (50.68)	HLU34H-ND	6.14	5.40	4.84	4.38
34	Flash	2 (50.68)	HLN34H-ND	2.08	1.83	1.64	1.49
40	30u"	2.3 (58.3)	HLU40H-ND	6.90	6.07	5.44	4.92
40	Flash	2.3 (58.3)	HLN40H-ND	2.18	1.92	1.72	1.56

(Continued)

ASSMANN

Low Profile Headers *(Cont.)*

No. of Con-tacts	Contact Finish Gold	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50
50	30u”	2.8 (71.0)	HLU50H-ND	8.18	7.20	6.45	5.83
50	Flash	2.8 (71.0)	HLN50H-ND	2.67	2.35	2.11	1.91
60	30u”	3.3 (83.7)	HLU60H-ND	9.50	8.36	7.49	6.77
60	Flash	3.3 (83.7)	HLN60H-ND	3.60	3.17	2.84	2.57
64	30u”	3.5 (88.78)	HLU64H-ND	10.66	9.37	8.40	7.60
64	Flash	3.5 (88.78)	HLN64H-ND	3.63	3.19	2.86	2.59
Pin Header Surface Mount							
10	Flash	.8 (20.2)	HSL10H-ND	1.55	1.37	1.23	1.11
14	Flash	1 (25.28)	HSL14H-ND	1.78	1.57	1.41	1.27
16	Flash	1.1 (27.82)	HSL16H-ND	1.98	1.74	1.56	1.41
20	Flash	1.3 (32.9)	HSL20H-ND	2.11	1.86	1.67	1.51
26	Flash	1.6 (40.52)	HSL26H-ND	2.15	1.89	1.69	1.53
34	Flash	2 (50.68)	HSL34H-ND	2.28	2.01	1.80	1.63
40	Flash	2.3 (58.3)	HSL40H-ND	2.64	2.32	2.08	1.88
Pin Header Straight Lead							
10	30u”	.8 (20.2)	HRU10H-ND	1.85	1.63	1.46	1.32
10	Flash	.8 (20.2)	HRP10H-ND	.66	.58	.52	.47
14	30u”	1 (25.28)	HRU14H-ND	2.38	2.09	1.88	1.70
14	Flash	1 (25.28)	HRP14H-ND	.73	.64	.58	.52
16	30u”	1.1 (27.82)	HRU16H-ND	2.67	2.35	2.11	1.91
16	Flash	1.1 (27.82)	HRP16H-ND	.79	.70	.63	.57
20	30u”	1.3 (32.9)	HRU20H-ND	3.20	2.82	2.53	2.28
20	Flash	1.3 (32.9)	HRP20H-ND	.89	.79	.71	.64
24	30u”	1.5 (37.98)	HRU24H-ND	3.80	3.34	2.99	2.71
24	Flash	1.5 (37.98)	HRP24H-ND	1.02	.90	.81	.73
26	30u”	1.6 (40.52)	HRU26H-ND	3.86	3.40	3.05	2.75
26	Flash	1.6 (40.52)	HRP26H-ND	.92	.82	.73	.66
30	30u”	1.8 (45.6)	HRU30H-ND	4.59	4.04	3.62	3.27
30	Flash	1.8 (45.6)	HRP30H-ND	1.19	1.05	.94	.85
34	30u”	2 (50.68)	HRU34H-ND	5.05	4.44	3.98	3.60
34	Flash	2 (50.68)	HRP34H-ND	1.09	.96	.86	.78
40	30u”	2.3 (58.3)	HRU40H-ND	5.84	5.14	4.61	4.16
40	Flash	2.3 (58.3)	HRP40H-ND	1.22	1.08	.97	.87
50	30u”	2.8 (71.0)	HRU50H-ND	7.46	6.56	5.88	5.32
50	Flash	2.8 (71.0)	HRP50H-ND	1.55	1.37	1.23	1.11
60	30u”	3.3 (83.7)	HRU60H-ND	9.17	8.07	7.23	6.54
60	Flash	3.3 (83.7)	HRP60H-ND	2.08	1.83	1.64	1.49
64	30u”	3.5 (88.78)	HRU64H-ND	9.67	8.50	7.62	6.89
64	Flash	3.5 (88.78)	HRP64H-ND	2.11	1.86	1.67	1.51

Pin Connectors

Specifications:

- **Current Rating:** 3A
- **Withstand Voltage:** 1000V AC/DC
- **Contact Resistance:** 20mΩ Maximum
- **Contact Material:** Copper Alloy
- **Underplate:** Nickel
- **Contact Area:** Selective Gold
- **Insulation Resistance:** 1000MΩ Minimum
- **Solder Tails Area:** 100µ” Matte Tin
- **Operating Temperature:** -40°C ~ 105°C

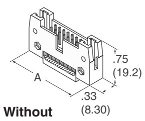

Without Flange

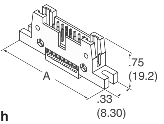

With Flange

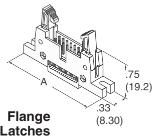

With Flange and Latches

No. of Con-tacts	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	Assmann Part No.
Pin Connector without Flange					
10	1.26 (31.96)	HPK10H-ND	8.80	6.68	AWH10G-0202-IDC-R
14	1.46 (37.1)	HPK14H-ND	9.18	6.96	AWH14G-0202-IDC-R
16	1.56 (39.62)	HPK16H-ND	9.18	6.96	AWH16G-0202-IDC-R
20	1.76 (44.74)	HPK20H-ND	9.18	6.96	AWH20G-0202-IDC-R
24	1.96 (49.82)	HPK24H-ND	9.18	6.96	AWH24G-0202-IDC-R
26	2.06 (52.22)	HPK26H-ND	9.73	7.38	AWH26G-0202-IDC-R
30	2.26 (57.46)	HPK30H-ND	9.73	7.38	AWH30G-0202-IDC-R
34	2.46 (62.52)	HPK34H-ND	10.11	7.67	AWH34G-0202-IDC-R
40	2.76 (70.18)	HPK40H-ND	10.66	8.09	AWH40G-0202-IDC-R
50	3.26 (82.74)	HPK50H-ND	11.47	8.70	AWH50G-0202-IDC-R
60	3.77 (95.68)	HPK60H-ND	12.59	9.55	AWH60G-0202-IDC-R
64	3.96 (100.7)	HPK64H-ND	13.33	10.11	AWH64G-0202-IDC-R
Pin Connector with Short Latch without Flange					
10	1.26 (31.96)	HPA10H-ND	4.85	4.27	AWH10G-0222-IDC-R
14	1.46 (37.1)	HPA14H-ND	5.05	4.44	AWH14G-0222-IDC-R
16	1.56 (39.62)	HPA16H-ND	5.05	4.44	AWH16G-0222-IDC-R
20	1.76 (44.74)	HPA20H-ND	5.05	4.44	AWH20G-0222-IDC-R
24	1.96 (49.82)	HPA24H-ND	5.12	4.50	AWH24G-0222-IDC-R
26	2.06 (52.22)	HPA26H-ND	5.28	4.64	AWH26G-0222-IDC-R
30	2.26 (57.46)	HPA30H-ND	5.28	4.64	AWH30G-0222-IDC-R
34	2.46 (62.52)	HPA34H-ND	5.71	5.02	AWH34G-0222-IDC-R
40	2.76 (70.18)	HPA40H-ND	5.91	5.20	AWH40G-0222-IDC-R
50	3.26 (82.74)	HPA50H-ND	6.50	5.72	AWH50G-0222-IDC-R
60	3.77 (95.68)	HPA60H-ND	6.80	5.98	AWH60G-0222-IDC-R
64	3.96 (100.7)	HPA64H-ND	7.00	6.15	AWH64G-0222-IDC-R
Pin Connector with Long Latch without Flange					
10	1.26 (31.96)	HPB10H-ND	5.08	4.47	AWH10G-0232-IDC-R
14	1.46 (37.1)	HPB14H-ND	5.28	4.64	AWH14G-0232-IDC-R
16	1.56 (39.62)	HPB16H-ND	5.28	4.64	AWH16G-0232-IDC-R
20	1.76 (44.74)	HPB20H-ND	5.28	4.64	AWH20G-0232-IDC-R
24	1.96 (49.82)	HPB24H-ND	5.35	4.70	AWH24G-0232-IDC-R
26	2.06 (52.22)	HPB26H-ND	5.51	4.85	AWH26G-0232-IDC-R
30	2.26 (57.46)	HPB30H-ND	5.51	4.85	AWH30G-0232-IDC-R
34	2.46 (62.52)	HPB34H-ND	5.97	5.25	AWH34G-0232-IDC-R
40	2.76 (70.18)	HPB40H-ND	6.17	5.43	AWH40G-0232-IDC-R
50	3.26 (82.74)	HPB50H-ND	6.50	5.72	AWH50G-0232-IDC-R
60	3.77 (95.68)	HPB60H-ND	6.80	5.98	AWH60G-0232-IDC-R
64	3.96 (100.7)	HPB64H-ND	7.00	6.15	AWH64G-0232-IDC-R
Pin Connector with Flange					
10	1.846 (46.96)	HPL10H-ND	8.31	6.30	AWH10G-E202-IDC-R
14	2.048 (52.1)	HPL14H-ND	8.62	6.54	AWH14G-E202-IDC-R
16	2.147 (54.62)	HPL16H-ND	8.62	6.54	AWH16G-E202-IDC-R
20	2.348 (59.74)	HPL20H-ND	8.62	6.54	AWH20G-E202-IDC-R
24	2.547 (64.82)	HPL24H-ND	8.62	6.54	AWH24G-E202-IDC-R
26	2.642 (67.22)	HPL26H-ND	9.73	7.38	AWH26G-E202-IDC-R
30	2.848 (72.46)	HPL30H-ND	9.73	7.38	AWH30G-E202-IDC-R
34	3.047 (77.52)	HPL34H-ND	10.11	7.67	AWH34G-E202-IDC-R
40	3.348 (85.18)	HPL40H-ND	10.66	8.09	AWH40G-E202-IDC-R
50	3.841 (97.74)	HPL50H-ND	12.03	9.12	AWH50G-E202-IDC-R
60	4.35 (110.68)	HPL60H-ND	12.59	9.55	AWH60G-E202-IDC-R
64	4.547 (115.7)	HPL64H-ND	13.95	10.58	AWH64G-E202-IDC-R
Pin Connector with Short Latch and Flange					
10	1.846 (46.96)	HPP10H-ND	4.55	4.01	AWH10G-E222-IDC-R
14	2.048 (52.1)	HPP14H-ND	4.75	4.18	AWH14G-E222-IDC-R
16	2.147 (54.62)	HPP16H-ND	4.75	4.18	AWH16G-E222-IDC-R
20	2.348 (59.74)	HPP20H-ND	4.75	4.18	AWH20G-E222-IDC-R
24	2.547 (64.82)	HPP24H-ND	4.72	4.15	AWH24G-E222-IDC-R
26	2.642 (67.22)	HPP26H-ND	5.28	4.64	AWH26G-E222-IDC-R
30	2.848 (72.46)	HPP30H-ND	5.28	4.64	AWH30G-E222-IDC-R
34	3.047 (77.52)	HPP34H-ND	5.71	5.02	AWH34G-E222-IDC-R
40	3.348 (85.18)	HPP40H-ND	5.91	5.20	AWH40G-E222-IDC-R
50	3.841 (97.74)	HPP50H-ND	6.24	5.49	AWH50G-E222-IDC-R
60	4.35 (110.68)	HPP60H-ND	6.80	5.98	AWH60G-E222-IDC-R
64	4.547 (115.7)	HPP64H-ND	7.00	6.15	AWH64G-E222-IDC-R
Pin Connector with Long Latch and Flange					
10	1.846 (46.96)	HPT10H-ND	4.55	4.01	AWH10G-E232-IDC-R
14	2.048 (52.1)	HPT14H-ND	5.05	4.44	AWH14G-E232-IDC-R
16	2.147 (54.62)	HPT16H-ND	5.05	4.44	AWH16G-E232-IDC-R
20	2.348 (59.74)	HPT20H-ND	5.05	4.44	AWH20G-E232-IDC-R
24	2.547 (64.82)	HPT24H-ND	4.72	4.15	AWH24G-E232-IDC-R
26	2.642 (67.22)	HPT26H-ND	5.28	4.64	AWH26G-E232-IDC-R
30	2.848 (72.46)	HPT30H-ND	5.28	4.64	AWH30G-E232-IDC-R
34	3.047 (77.52)	HPT34H-ND	5.71	5.02	AWH34G-E232-IDC-R
40	3.348 (85.18)	HPT40H-ND	5.91	5.20	AWH40G-E232-IDC-R
50	3.841 (97.74)	HPT50H-ND	6.50	5.72	AWH50G-E232-IDC-R
60	4.35 (110.68)	HPT60H-ND	6.80	5.98	AWH60G-E232-IDC-R
64	4.547 (115.7)	HPT64H-ND	7.00	6.15	AWH64G-E232-IDC-R

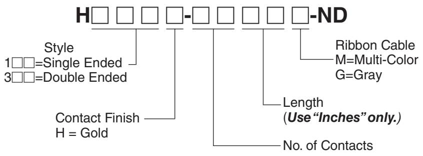

Pin Connectors — Single Ended

∗MC=Multi-Color,
GR=Gray

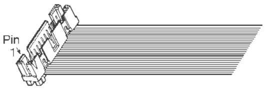

Pin Connector without flange, without strain relief shown

No. of Con-tacts	Con-tact Finish	Length Inch (cm)	Rib-bon∗ Cable	Digi-Key Part No.	Price Each 1	10
Pin Connector without Strain Relief and without Flange						
10	Gold	36 (91.44)	MC	H1KXH-1036M-ND	11.21	8.50
10	Gold	36 (91.44)	GR	H1KXH-1036G-ND	9.56	7.25
14	Gold	36 (91.44)	MC	H1KXH-1436M-ND	12.79	9.70
14	Gold	36 (91.44)	GR	H1KXH-1436G-ND	10.24	7.77
16	Gold	36 (91.44)	MC	H1KXH-1636M-ND	13.03	9.88
16	Gold	36 (91.44)	GR	H1KXH-1636G-ND	10.39	7.88
20	Gold	36 (91.44)	MC	H1KXH-2036M-ND	13.99	10.61
20	Gold	36 (91.44)	GR	H1KXH-2036G-ND	10.89	8.26
24	Gold	36 (91.44)	MC	H1KXH-2436M-ND	15.19	11.52
24	Gold	36 (91.44)	GR	H1KXH-2436G-ND	10.79	8.18
26	Gold	36 (91.44)	MC	H1KXH-2636M-ND	15.99	12.13
26	Gold	36 (91.44)	GR	H1KXH-2636G-ND	11.85	8.99
30	Gold	36 (91.44)	MC	H1KXH-3036M-ND	17.92	13.59
30	Gold	36 (91.44)	GR	H1KXH-3036G-ND	11.72	8.89
34	Gold	36 (91.44)	MC	H1KXH-3436M-ND	18.29	13.87
34	Gold	36 (91.44)	GR	H1KXH-3436G-ND	12.39	9.40
40	Gold	36 (91.44)	MC	H1KXH-4036M-ND	20.29	15.39
40	Gold	36 (91.44)	GR	H1KXH-4036G-ND	13.86	10.51
50	Gold	36 (91.44)	MC	H1KXH-5036M-ND	23.50	17.82
50	Gold	36 (91.44)	GR	H1KXH-5036G-ND	14.83	11.25
60	Gold	36 (91.44)	MC	H1KXH-6036M-ND	27.02	20.49
60	Gold	36 (91.44)	GR	H1KXH-6036G-ND	17.14	13.00
64	Gold	36 (91.44)	MC	H1KXH-6436M-ND	28.73	21.78
64	Gold	36 (91.44)	GR	H1KXH-6436G-ND	17.63	13.37
Pin Connector without Strain Relief, with Flange						
10	Gold	36 (91.44)	MC	H1WXH-1036M-ND	10.71	8.13
10	Gold	36 (91.44)	GR	H1WXH-1036G-ND	9.07	6.88
14	Gold	36 (91.44)	MC	H1WXH-1436M-ND	12.23	9.27
14	Gold	36 (91.44)	GR	H1WXH-1436G-ND	9.68	7.34
16	Gold	36 (91.44)	MC	H1WXH-1636M-ND	12.47	9.46
16	Gold	36 (91.44)	GR	H1WXH-1636G-ND	9.83	7.46
20	Gold	36 (91.44)	MC	H1WXH-2036M-ND	13.43	10.19
20	Gold	36 (91.44)	GR	H1WXH-2036G-ND	10.33	7.84
24	Gold	36 (91.44)	MC	H1WXH-2436M-ND	14.63	11.10
24	Gold	36 (91.44)	GR	H1WXH-2436G-ND	10.23	7.76
26	Gold	36 (91.44)	MC	H1WXH-2636M-ND	15.99	12.13
26	Gold	36 (91.44)	GR	H1WXH-2636G-ND	11.85	8.99
30	Gold	36 (91.44)	MC	H1WXH-3036M-ND	17.92	13.59
30	Gold	36 (91.44)	GR	H1WXH-3036G-ND	11.72	8.89
34	Gold	36 (91.44)	MC	H1WXH-3436M-ND	18.29	13.87
34	Gold	36 (91.44)	GR	H1WXH-3436G-ND	12.39	9.40
40	Gold	36 (91.44)	MC	H1WXH-4036M-ND	20.29	15.39
40	Gold	36 (91.44)	GR	H1WXH-4036G-ND	13.86	10.51
50	Gold	36 (91.44)	MC	H1WXH-5036M-ND	24.06	18.24
50	Gold	36 (91.44)	GR	H1WXH-5036G-ND	15.39	11.67
60	Gold	36 (91.44)	MC	H1WXH-6036M-ND	27.02	20.49
60	Gold	36 (91.44)	GR	H1WXH-6036G-ND	17.14	13.00
64	Gold	36 (91.44)	MC	H1WXH-6436M-ND	29.35	22.25
64	Gold	36 (91.44)	GR	H1WXH-6436G-ND	18.25	13.84

Pin Connectors — Double Ended

∗MC=Multi-Color,
GR=Gray

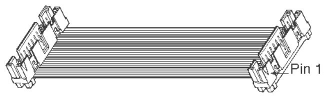

Pin Connector without Strain Relief Shown

No. of Con-tacts	Con-tact Finish	Length Inch (cm)	Rib-bon∗ Cable	Digi-Key Part No.	Price Each 1	10
Pin Connector without Strain Relief and without Flange						
10	Gold	6 (15.24)	MC	H3KKH-1006M-ND	18.01	13.66
		6 (15.24)	GR	H3KKH-1006G-ND	17.73	13.45
		18 (45.72)	MC	H3KKH-1018M-ND	20.01	15.18
		18 (45.72)	GR	H3KKH-1018G-ND	18.37	13.93
		36 (91.44)	MC	H3KKH-1036M-ND	20.01	15.18
		36 (91.44)	GR	H3KKH-1036G-ND	18.37	13.93
14	Gold	6 (15.24)	MC	H3KKH-1406M-ND	18.95	14.37
		6 (15.24)	GR	H3KKH-1406G-ND	18.53	14.05
		18 (45.72)	MC	H3KKH-1418M-ND	21.96	16.65
		18 (45.72)	GR	H3KKH-1418G-ND	19.41	14.72
		36 (91.44)	MC	H3KKH-1436M-ND	21.96	16.65
		36 (91.44)	GR	H3KKH-1436G-ND	19.41	14.72
16	Gold	6 (15.24)	MC	H3KKH-1606M-ND	18.99	14.40
		6 (15.24)	GR	H3KKH-1606G-ND	18.55	14.07
		18 (45.72)	MC	H3KKH-1618M-ND	22.20	16.84
		18 (45.72)	GR	H3KKH-1618G-ND	19.56	14.83
		36 (91.44)	MC	H3KKH-1636M-ND	22.20	16.84
		36 (91.44)	GR	H3KKH-1636G-ND	19.56	14.83
20	Gold	6 (15.24)	MC	H3KKH-2006M-ND	19.15	14.52
		6 (15.24)	GR	H3KKH-2006G-ND	18.64	14.13
		18 (45.72)	MC	H3KKH-2018M-ND	23.16	17.56
		18 (45.72)	GR	H3KKH-2018G-ND	20.07	15.22
		36 (91.44)	MC	H3KKH-2036M-ND	23.16	17.56
		36 (91.44)	GR	H3KKH-2036G-ND	20.07	15.22
24	Gold	6 (15.24)	MC	H3KKH-2406M-ND	19.35	14.68
		6 (15.24)	GR	H3KKH-2406G-ND	18.62	14.12
		18 (45.72)	MC	H3KKH-2418M-ND	24.37	18.48
		18 (45.72)	GR	H3KKH-2418G-ND	19.97	15.14
		36 (91.44)	MC	H3KKH-2436M-ND	24.37	18.48
		36 (91.44)	GR	H3KKH-2436G-ND	19.97	15.14
26	Gold	6 (15.24)	MC	H3KKH-2606M-ND	20.51	15.55
		6 (15.24)	GR	H3KKH-2606G-ND	19.82	15.03

(Continued)

Pin Connectors — Double Ended *(Cont.)*

No. of Con-tacts	Con-tact Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
26	Gold	18 (45.72)	MC	H3KKH-2618M-ND	25.72	19.51
		18 (45.72)	GR	H3KKH-2618G-ND	21.58	16.37
		36 (91.44)	MC	H3KKH-2636M-ND	25.72	19.51
		36 (91.44)	GR	H3KKH-2636G-ND	21.58	16.37
30	Gold	6 (15.24)	MC	H3KKH-3006M-ND	20.83	15.80
		6 (15.24)	GR	H3KKH-3006G-ND	19.80	15.01
		18 (45.72)	MC	H3KKH-3018M-ND	27.65	20.96
		18 (45.72)	GR	H3KKH-3018G-ND	21.45	16.27
		36 (91.44)	MC	H3KKH-3036M-ND	27.65	20.96
		36 (91.44)	GR	H3KKH-3036G-ND	21.45	16.27
34	Gold	6 (15.24)	MC	H3KKH-3406M-ND	21.58	16.36
		6 (15.24)	GR	H3KKH-3406G-ND	20.59	15.62
		18 (45.72)	MC	H3KKH-3418M-ND	28.39	21.53
		18 (45.72)	GR	H3KKH-3418G-ND	22.50	17.06
		36 (91.44)	MC	H3KKH-3436M-ND	28.39	21.53
		36 (91.44)	GR	H3KKH-3436G-ND	22.50	17.06
40	Gold	6 (15.24)	MC	H3KKH-4006M-ND	22.93	17.39
		6 (15.24)	GR	H3KKH-4006G-ND	21.86	16.58
		18 (45.72)	MC	H3KKH-4018M-ND	30.95	23.47
		18 (45.72)	GR	H3KKH-4018G-ND	24.53	18.60
		36 (91.44)	MC	H3KKH-4036M-ND	30.95	23.47
		36 (91.44)	GR	H3KKH-4036G-ND	24.53	18.60
50	Gold	6 (15.24)	MC	H3KKH-5006M-ND	24.95	18.91
		6 (15.24)	GR	H3KKH-5006G-ND	23.50	17.82
		18 (45.72)	MC	H3KKH-5018M-ND	34.97	26.52
		18 (45.72)	GR	H3KKH-5018G-ND	26.30	19.94
		36 (91.44)	MC	H3KKH-5036M-ND	34.97	26.52
		36 (91.44)	GR	H3KKH-5036G-ND	26.30	19.94
60	Gold	6 (15.24)	MC	H3KKH-6006M-ND	27.58	20.91
		6 (15.24)	GR	H3KKH-6006G-ND	25.93	19.66
		18 (45.72)	MC	H3KKH-6018M-ND	39.61	30.03
		18 (45.72)	GR	H3KKH-6018G-ND	29.72	22.54
		36 (91.44)	MC	H3KKH-6036M-ND	39.61	30.03
		36 (91.44)	GR	H3KKH-6036G-ND	29.72	22.54
64	Gold	6 (15.24)	MC	H3KKH-6406M-ND	29.23	22.16
		6 (15.24)	GR	H3KKH-6406G-ND	27.38	20.76
		18 (45.72)	MC	H3KKH-6418M-ND	42.06	31.89
		18 (45.72)	GR	H3KKH-6418G-ND	30.96	23.48
		36 (91.44)	MC	H3KKH-6436M-ND	42.06	31.89
		36 (91.44)	GR	H3KKH-6436G-ND	30.96	23.48
Pin Connector without Strain Relief and with Flange						
10	Gold	6 (15.24)	MC	H3WWH-1006M-ND	17.02	12.90
		6 (15.24)	GR	H3WWH-1006G-ND	16.74	12.70
		18 (45.72)	MC	H3WWH-1018M-ND	19.02	14.42
		18 (45.72)	GR	H3WWH-1018G-ND	17.37	13.17
		36 (91.44)	MC	H3WWH-1036M-ND	19.02	14.42
		36 (91.44)	GR	H3WWH-1036G-ND	17.37	13.17
14	Gold	6 (15.24)	MC	H3WWH-1406M-ND	17.84	13.53
		6 (15.24)	GR	H3WWH-1406G-ND	17.41	13.20
		18 (45.72)	MC	H3WWH-1418M-ND	20.85	15.81
		18 (45.72)	GR	H3WWH-1418G-ND	18.30	13.88
		36 (91.44)	MC	H3WWH-1436M-ND	20.85	15.81
		36 (91.44)	GR	H3WWH-1436G-ND	18.30	13.88
16	Gold	6 (15.24)	MC	H3WWH-1606M-ND	17.88	13.56
		6 (15.24)	GR	H3WWH-1606G-ND	17.44	13.22
		18 (45.72)	MC	H3WWH-1618M-ND	21.09	15.99
		18 (45.72)	GR	H3WWH-1618G-ND	18.45	13.99
		36 (91.44)	MC	H3WWH-1636M-ND	21.09	15.99
		36 (91.44)	GR	H3WWH-1636G-ND	18.45	13.99
20	Gold	6 (15.24)	MC	H3WWH-2006M-ND	18.04	13.68
		6 (15.24)	GR	H3WWH-2006G-ND	17.52	13.29
		18 (45.72)	MC	H3WWH-2018M-ND	22.05	16.72
		18 (45.72)	GR	H3WWH-2018G-ND	18.95	14.37
		36 (91.44)	MC	H3WWH-2036M-ND	22.05	16.72
		36 (91.44)	GR	H3WWH-2036G-ND	18.95	14.37
24	Gold	6 (15.24)	MC	H3WWH-2406M-ND	18.24	13.83
		6 (15.24)	GR	H3WWH-2406G-ND	17.51	13.27
		18 (45.72)	MC	H3WWH-2418M-ND	23.25	17.63
		18 (45.72)	GR	H3WWH-2418G-ND	18.85	14.29
		36 (91.44)	MC	H3WWH-2436M-ND	23.25	17.63
		36 (91.44)	GR	H3WWH-2436G-ND	18.85	14.29
26	Gold	6 (15.24)	MC	H3WWH-2606M-ND	20.51	15.55
		6 (15.24)	GR	H3WWH-2606G-ND	19.82	15.03
		18 (45.72)	MC	H3WWH-2618M-ND	25.72	19.51
		18 (45.72)	GR	H3WWH-2618G-ND	21.58	16.37
		36 (91.44)	MC	H3WWH-2636M-ND	25.72	19.51
		36 (91.44)	GR	H3WWH-2636G-ND	21.58	16.37
30	Gold	6 (15.24)	MC	H3WWH-3006M-ND	20.83	15.80
		6 (15.24)	GR	H3WWH-3006G-ND	19.80	15.01
		18 (45.72)	MC	H3WWH-3018M-ND	27.65	20.96
		18 (45.72)	GR	H3WWH-3018G-ND	21.45	16.27
		36 (91.44)	MC	H3WWH-3036M-ND	27.65	20.96
		36 (91.44)	GR	H3WWH-3036G-ND	21.45	16.27
34	Gold	6 (15.24)	MC	H3WWH-3406M-ND	21.58	16.36
		6 (15.24)	GR	H3WWH-3406G-ND	20.59	15.62
		18 (45.72)	MC	H3WWH-3418M-ND	28.39	21.53
		18 (45.72)	GR	H3WWH-3418G-ND	22.50	17.06
		36 (91.44)	MC	H3WWH-3436M-ND	28.39	21.53
		36 (91.44)	GR	H3WWH-3436G-ND	22.50	17.06
40	Gold	6 (15.24)	MC	H3WWH-4006M-ND	22.93	17.39
		6 (15.24)	GR	H3WWH-4006G-ND	21.86	16.58
		18 (45.72)	MC	H3WWH-4018M-ND	30.95	23.47
		18 (45.72)	GR	H3WWH-4018G-ND	24.53	18.60
		36 (91.44)	MC	H3WWH-4036M-ND	30.95	23.47
		36 (91.44)	GR	H3WWH-4036G-ND	24.53	18.60
50	Gold	6 (15.24)	MC	H3WWH-5006M-ND	26.06	19.76
		6 (15.24)	GR	H3WWH-5006G-ND	24.62	18.67
		18 (45.72)	MC	H3WWH-5018M-ND	36.09	27.36
		18 (45.72)	GR	H3WWH-5018G-ND	27.42	20.79
		36 (91.44)	MC	H3WWH-5036M-ND	36.09	27.36
		36 (91.44)	GR	H3WWH-5036G-ND	27.42	20.79
60	Gold	6 (15.24)	MC	H3WWH-6006M-ND	27.58	20.91
		6 (15.24)	GR	H3WWH-6006G-ND	25.93	19.66
		18 (45.72)	MC	H3WWH-6018M-ND	39.61	30.03
		18 (45.72)	GR	H3WWH-6018G-ND	29.72	22.54
		36 (91.44)	MC	H3WWH-6036M-ND	39.61	30.03
		36 (91.44)	GR	H3WWH-6036G-ND	29.72	22.54
64	Gold	6 (15.24)	MC	H3WWH-6406M-ND	30.47	23.10
		6 (15.24)	GR	H3WWH-6406G-ND	28.62	21.70
		18 (45.72)	MC	H3WWH-6418M-ND	43.30	32.83
		18 (45.72)	GR	H3WWH-6418G-ND	32.20	24.42
		36 (91.44)	MC	H3WWH-6436M-ND	43.30	32.83
		36 (91.44)	GR	H3WWH-6436G-ND	32.20	24.42

Socket Connector to Pin Connector

*MC=Multi-Color,
GR=Gray

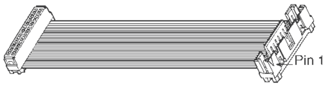

Socket Connector without Strain Relief or Polarizing Key Shown
Pin Connector without Strain Relief or Flange Shown

No. of Con-tacts	Con-tact Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	6 (15.24)	MC	H3AKH-1006M-ND	10.26	7.78
		6 (15.24)	GR	H3AKH-1006G-ND	9.98	7.57
		18 (45.72)	MC	H3AKH-1018M-ND	11.06	8.39
		18 (45.72)	GR	H3AKH-1018G-ND	10.24	7.76
		36 (91.44)	MC	H3AKH-1036M-ND	12.26	9.30
		36 (91.44)	GR	H3AKH-1036G-ND	10.62	8.05
14	Gold	6 (15.24)	MC	H3AKH-1406M-ND	11.02	8.36
		6 (15.24)	GR	H3AKH-1406G-ND	10.59	8.03
		18 (45.72)	MC	H3AKH-1418M-ND	12.22	9.27
		18 (45.72)	GR	H3AKH-1418G-ND	10.95	8.30
		36 (91.44)	MC	H3AKH-1436M-ND	14.03	10.64
		36 (91.44)	GR	H3AKH-1436G-ND	11.48	8.71
16	Gold	6 (15.24)	MC	H3AKH-1606M-ND	11.06	8.39
		6 (15.24)	GR	H3AKH-1606G-ND	10.62	8.05
		18 (45.72)	MC	H3AKH-1618M-ND	12.34	9.36
		18 (45.72)	GR	H3AKH-1618G-ND	11.02	8.36
		36 (91.44)	MC	H3AKH-1636M-ND	14.27	10.82
		36 (91.44)	GR	H3AKH-1636G-ND	11.63	8.82
20	Gold	6 (15.24)	MC	H3AKH-2006M-ND	11.22	8.51
		6 (15.24)	GR	H3AKH-2006G-ND	10.70	8.12
		18 (45.72)	MC	H3AKH-2018M-ND	12.82	9.72
		18 (45.72)	GR	H3AKH-2018G-ND	11.27	8.55
		36 (91.44)	MC	H3AKH-2036M-ND	15.23	11.55
		36 (91.44)	GR	H3AKH-2036G-ND	12.13	9.20
26	Gold	6 (15.24)	MC	H3AKH-2606M-ND	12.02	9.11
		6 (15.24)	GR	H3AKH-2606G-ND	11.33	8.59
		18 (45.72)	MC	H3AKH-2618M-ND	14.10	10.69
		18 (45.72)	GR	H3AKH-2618G-ND	12.03	9.13
		36 (91.44)	MC	H3AKH-2636M-ND	17.23	13.07
		36 (91.44)	GR	H3AKH-2636G-ND	13.09	9.93
30	Gold	6 (15.24)	MC	H3AKH-3006M-ND	12.77	9.69
		6 (15.24)	GR	H3AKH-3006G-ND	11.74	8.90
		18 (45.72)	MC	H3AKH-3018M-ND	15.50	11.75
		18 (45.72)	GR	H3AKH-3018G-ND	12.40	9.40
		36 (91.44)	MC	H3AKH-3036M-ND	19.59	14.85
		36 (91.44)	GR	H3AKH-3036G-ND	13.39	10.16
34	Gold	6 (15.24)	MC	H3AKH-3406M-ND	12.71	9.64
		6 (15.24)	GR	H3AKH-3406G-ND	11.73	8.89
		18 (45.72)	MC	H3AKH-3418M-ND	15.44	11.71
		18 (45.72)	GR	H3AKH-3418G-ND	12.49	9.47
		36 (91.44)	MC	H3AKH-3436M-ND	19.53	14.81
		36 (91.44)	GR	H3AKH-3436G-ND	13.63	10.34
40	Gold	6 (15.24)	MC	H3AKH-4006M-ND	13.76	10.43
		6 (15.24)	GR	H3AKH-4006G-ND	12.68	9.62
		18 (45.72)	MC	H3AKH-4018M-ND	16.96	12.86
		18 (45.72)	GR	H3AKH-4018G-ND	13.75	10.43
		36 (91.44)	MC	H3AKH-4036M-ND	21.78	16.51
		36 (91.44)	GR	H3AKH-4036G-ND	15.35	11.64
50	Gold	6 (15.24)	MC	H3AKH-5006M-ND	15.34	11.63
		6 (15.24)	GR	H3AKH-5006G-ND	13.89	10.53
		18 (45.72)	MC	H3AKH-5018M-ND	19.35	14.67
		18 (45.72)	GR	H3AKH-5018G-ND	15.01	11.38
		36 (91.44)	MC	H3AKH-5036M-ND	25.36	19.23
		36 (91.44)	GR	H3AKH-5036G-ND	16.69	12.66
60	Gold	6 (15.24)	MC	H3AKH-6006M-ND	18.34	13.91
		6 (15.24)	GR	H3AKH-6006G-ND	16.69	12.66
		18 (45.72)	MC	H3AKH-6018M-ND	23.15	17.56
		18 (45.72)	GR	H3AKH-6018G-ND	18.21	13.81
		36 (91.44)	MC	H3AKH-6036M-ND	30.37	23.03
		36 (91.44)	GR	H3AKH-6036G-ND	20.49	15.53
64	Gold	6 (15.24)	MC	H3AKH-6406M-ND	21.72	16.47
		6 (15.24)	GR	H3AKH-6406G-ND	19.88	15.07
		18 (45.72)	MC	H3AKH-6418M-ND	26.86	20.36
		18 (45.72)	GR	H3AKH-6418G-ND	21.31	16.16
		36 (91.44)	MC	H3AKH-6436M-ND	34.56	26.20
		36 (91.44)	GR	H3AKH-6436G-ND	23.46	17.79

Also available in the following configuration:
H3BKH-□□□□□-ND — Socket Connector with Strain Relief, w/o Polarizing Key; Pin Connector w/o Strain Relief or Flange
H3CKH-□□□□□-ND — Socket Connector w/o Strain Relief, with Polarizing Key; Pin Connector w/o Strain Relief or Flange
H3DKH-□□□□□-ND — Socket Connector with Strain Relief, and Polarizing Key; Pin Connector w/o Strain Relief or Flange
H3AWH-□□□□□-ND — Socket Connector w/o Strain Relief or Polarizing Key; Pin Connector w/o Strain Relief, with Flange
H3BWH-□□□□□-ND — Socket Connector with Strain Relief, w/o Polarizing Key; Pin Connector w/o Strain Relief with Flange
H3CWH-□□□□□-ND — Socket Connector w/o Strain Relief, with Polarizing Key; Pin Connector w/o Strain Relief with Flange
H3DWH-□□□□□-ND — Socket Connector with Strain Relief, with Polarizing Key; Pin Connector w/o Strain Relief with Flange

Call for complete part number and pricing

Dip Plugs .1" x .1"

Specifications:
- **Current Rating:** 3A
- **Voltage Rating:** 500V AC/DC
- **Withstand Voltage:** 1000V AC/DC
- **Contact Resistance:** 20mΩ Maximum
- **Insulation Resistance:** 1000MΩ Minimum
- **Operation Temperature:** -40°C ~ 105°C

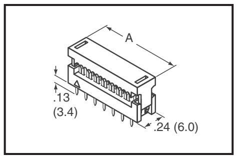

No. of Con-tacts	Con-tact Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	Assmann Part No.
10	Gold	0.71 (18.1)	HDM10H-ND	1.86	1.41	AWLP-10/3.2-G-R
14		0.91 (23.05)	HDM14H-ND	1.86	1.41	AWLP-14/3.2-G-R
16		1.01 (25.64)	HDM16H-ND	1.86	1.41	AWLP-16/3.2-G-R
20		1.21 (30.78)	HDM20H-ND	2.11	1.60	AWLP-20/3.2-G-R
24		1.41 (35.86)	HDM24H-ND	2.73	2.07	AWLP-24/3.2-G-R
26	Gold	1.51 (38.4)	HDM26H-ND	2.11	1.60	AWLP-26/3.2-G-R
30		1.71 (43.5)	HDM30H-ND	2.73	2.07	AWLP-30/3.2-G-R
34		1.91 (48.58)	HDM34H-ND	2.73	2.07	AWLP-34/3.2-G-R
40		2.21 (56.2)	HDM40H-ND	2.73	2.07	AWLP-40/3.2-G-R
50		2.72 (69.0)	HDM50H-ND	3.53	2.68	AWLP-50/3.2-G-R
60	Gold	3.22 (81.75)	HDM60H-ND	5.21	3.95	AWLP-60/3.2-G-R
64		3.42 (86.83)	HDM64H-ND	5.64	4.28	AWLP-64/3.2-G-R
10	Tin	0.71 (18.1)	HDM10S-ND	1.86	1.41	AWLP-10/3.2-T-R
14		0.91 (23.05)	HDM14S-ND	1.86	1.41	AWLP-14/3.2-T-R
16		1.01 (25.64)	HDM16S-ND	1.86	1.41	AWLP-16/3.2-T-R
20		1.21 (30.78)	HDM20S-ND	2.11	1.60	AWLP-20/3.2-T-R
24		1.41 (35.86)	HDM24S-ND	2.73	2.07	AWLP-24/3.2-T-R
26	Tin	1.51 (38.4)	HDM26S-ND	2.29	1.74	AWLP-26/3.2-T-R
30		1.71 (43.5)	HDM30S-ND	2.73	2.07	AWLP-30/3.2-T-R
34		1.91 (48.58)	HDM34S-ND	2.73	2.07	AWLP-34/3.2-T-R
40		2.21 (56.2)	HDM40S-ND	3.53	2.68	AWLP-40/3.2-T-R
50		2.72 (69.0)	HDM50S-ND	3.53	2.68	AWLP-50/3.2-T-R
60	Tin	3.22 (81.75)	HDM60S-ND	5.21	3.95	AWLP-60/3.2-T-R
64		3.42 (86.83)	HDM64S-ND	5.64	4.28	AWLP-64/3.2-T-R

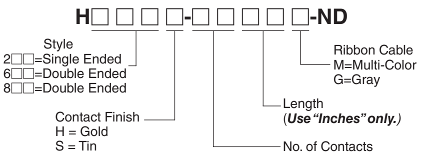

Dip Plugs .1" x .1" Assemblies

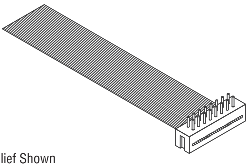

Single Ended Style 2

*MC=Multi-Color,
GR=Gray

Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

No. of Con-tacts	Con-tact Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Tin	6 (15.24)	GR	H2MXS-1006G-ND	1.99	1.51
	Tin	6 (15.24)	MC	H2MXS-1006M-ND	2.26	1.72
	Gold	6 (15.24)	GR	H2MXH-1006G-ND	1.99	1.51
	Gold	6 (15.24)	MC	H2MXH-1006M-ND	2.26	1.72

(Continued)

ASSMANN

Dip Plugs .1" x .1" Assemblies

Single Ended Style 2 *(Cont.)*

No. of Contacts	Contact Finish	Length Inc h (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each 1	10
10	Tin	18 (45.72)	GR	H2MXS-1018G-ND	2.24	1.70
	Tin	18 (45.72)	MC	H2MXS-1018M-ND	3.06	2.33
	Gold	18 (45.72)	GR	H2MXH-1018G-ND	2.24	1.70
	Gold	18 (45.72)	MC	H2MXH-1018M-ND	3.06	2.33
	Tin	36 (91.44)	GR	H2MXS-1036G-ND	2.62	1.99
	Tin	36 (91.44)	MC	H2MXS-1036M-ND	4.27	3.24
	Gold	36 (91.44)	GR	H2MXH-1036G-ND	2.62	1.99
	Gold	36 (91.44)	MC	H2MXH-1036M-ND	4.27	3.24
14	Tin	6 (15.24)	GR	H2MXS-1406G-ND	2.04	1.55
	Tin	6 (15.24)	MC	H2MXS-1406M-ND	2.46	1.87
	Gold	6 (15.24)	GR	H2MXH-1406G-ND	2.04	1.55
	Gold	6 (15.24)	MC	H2MXH-1406M-ND	2.46	1.87
	Tin	18 (45.72)	GR	H2MXS-1418G-ND	2.39	1.82
	Tin	18 (45.72)	MC	H2MXS-1418M-ND	3.66	2.78
	Gold	18 (45.72)	GR	H2MXH-1418G-ND	2.39	1.82
	Gold	18 (45.72)	MC	H2MXH-1418M-ND	3.66	2.78
	Tin	36 (91.44)	GR	H2MXS-1436G-ND	2.92	2.22
	Tin	36 (91.44)	MC	H2MXS-1436M-ND	5.47	4.15
	Gold	36 (91.44)	GR	H2MXH-1436G-ND	2.92	2.22
	Gold	36 (91.44)	MC	H2MXH-1436M-ND	5.47	4.15
16	Tin	6 (15.24)	GR	H2MXS-1606G-ND	2.06	1.57
	Tin	6 (15.24)	MC	H2MXS-1606M-ND	2.50	1.90
	Gold	6 (15.24)	GR	H2MXH-1606G-ND	2.06	1.57
	Gold	6 (15.24)	MC	H2MXH-1606M-ND	2.50	1.90
	Tin	18 (45.72)	GR	H2MXS-1618G-ND	2.47	1.87
	Tin	18 (45.72)	MC	H2MXS-1618M-ND	3.79	2.87
	Gold	18 (45.72)	GR	H2MXH-1618G-ND	2.47	1.87
	Gold	18 (45.72)	MC	H2MXH-1618M-ND	3.79	2.87
	Tin	36 (91.44)	GR	H2MXS-1636G-ND	3.07	2.33
	Tin	36 (91.44)	MC	H2MXS-1636M-ND	5.71	4.33
	Gold	36 (91.44)	GR	H2MXH-1636G-ND	3.07	2.33
	Gold	36 (91.44)	MC	H2MXH-1636M-ND	5.71	4.33
20	Tin	6 (15.24)	GR	H2MXS-2006G-ND	2.39	1.82
	Tin	6 (15.24)	MC	H2MXS-2006M-ND	2.91	2.21
	Gold	6 (15.24)	GR	H2MXH-2006G-ND	2.39	1.82
	Gold	6 (15.24)	MC	H2MXH-2006M-ND	2.91	2.21
	Tin	18 (45.72)	GR	H2MXS-2018G-ND	2.97	2.25
	Tin	18 (45.72)	MC	H2MXS-2018M-ND	4.51	3.43
	Gold	18 (45.72)	GR	H2MXH-2018G-ND	2.97	2.25
	Gold	18 (45.72)	MC	H2MXH-2018M-ND	4.51	3.43
	Tin	36 (91.44)	GR	H2MXS-2036G-ND	3.82	2.90
	Tin	36 (91.44)	MC	H2MXS-2036M-ND	6.92	5.25
	Gold	36 (91.44)	GR	H2MXH-2036G-ND	3.82	2.90
	Gold	36 (91.44)	MC	H2MXH-2036M-ND	6.92	5.25
24	Tin	6 (15.24)	GR	H2MXS-2406G-ND	3.00	2.28
	Tin	6 (15.24)	MC	H2MXS-2406M-ND	3.73	2.83
	Gold	6 (15.24)	GR	H2MXH-2406G-ND	3.00	2.28
	Gold	6 (15.24)	MC	H2MXH-2406M-ND	3.73	2.83
	Tin	18 (45.72)	GR	H2MXS-2418G-ND	3.54	2.68
	Tin	18 (45.72)	MC	H2MXS-2418M-ND	5.74	4.35
	Gold	18 (45.72)	GR	H2MXH-2418G-ND	3.54	2.68
	Gold	18 (45.72)	MC	H2MXH-2418M-ND	5.74	4.35
	Tin	36 (91.44)	GR	H2MXS-2436G-ND	4.34	3.30
	Tin	36 (91.44)	MC	H2MXS-2436M-ND	8.74	6.63
	Gold	36 (91.44)	GR	H2MXH-2436G-ND	4.34	3.30
	Gold	36 (91.44)	MC	H2MXH-2436M-ND	8.74	6.63
26	Tin	6 (15.24)	GR	H2MXS-2606G-ND	2.65	2.01
	Tin	6 (15.24)	MC	H2MXS-2606M-ND	3.34	2.53
	Gold	6 (15.24)	GR	H2MXH-2606G-ND	2.46	1.87
	Gold	6 (15.24)	MC	H2MXH-2606M-ND	3.15	2.39
	Tin	18 (45.72)	GR	H2MXS-2618G-ND	3.35	2.55
	Tin	18 (45.72)	MC	H2MXS-2618M-ND	5.42	4.11
	Gold	18 (45.72)	GR	H2MXH-2618G-ND	3.17	2.40
	Gold	18 (45.72)	MC	H2MXH-2618M-ND	5.24	3.97
	Tin	36 (91.44)	GR	H2MXS-2636G-ND	4.41	3.35
	Tin	36 (91.44)	MC	H2MXS-2636M-ND	8.55	6.49
	Gold	36 (91.44)	GR	H2MXH-2636G-ND	4.22	3.21
	Gold	36 (91.44)	MC	H2MXH-2636M-ND	8.36	6.35
30	Tin	6 (15.24)	GR	H2MXS-3006G-ND	3.06	2.32
	Tin	6 (15.24)	MC	H2MXS-3006M-ND	4.09	3.11
	Gold	6 (15.24)	GR	H2MXH-3006G-ND	3.06	2.32
	Gold	6 (15.24)	MC	H2MXH-3006M-ND	4.09	3.11
	Tin	18 (45.72)	GR	H2MXS-3018G-ND	3.72	2.82
	Tin	18 (45.72)	MC	H2MXS-3018M-ND	6.82	5.17
	Gold	18 (45.72)	GR	H2MXH-3018G-ND	3.72	2.82
	Gold	18 (45.72)	MC	H2MXH-3018M-ND	6.82	5.17
	Tin	36 (91.44)	GR	H2MXS-3036G-ND	4.71	3.58
	Tin	36 (91.44)	MC	H2MXS-3036M-ND	10.91	8.27
	Gold	36 (91.44)	GR	H2MXH-3036G-ND	4.71	3.58
	Gold	36 (91.44)	MC	H2MXH-3036M-ND	10.91	8.27
34	Tin	6 (15.24)	GR	H2MXS-3406G-ND	3.11	2.36
	Tin	6 (15.24)	MC	H2MXS-3406M-ND	4.09	3.11
	Gold	6 (15.24)	GR	H2MXH-3406G-ND	3.11	2.36
	Gold	6 (15.24)	MC	H2MXH-3406M-ND	4.09	3.11
	Tin	18 (45.72)	GR	H2MXS-3418G-ND	3.87	2.94
	Tin	18 (45.72)	MC	H2MXS-3418M-ND	6.82	5.17
	Gold	18 (45.72)	GR	H2MXH-3418G-ND	3.87	2.94
	Gold	18 (45.72)	MC	H2MXH-3418M-ND	6.82	5.17
	Tin	36 (91.44)	GR	H2MXS-3436G-ND	5.01	3.81
	Tin	36 (91.44)	MC	H2MXS-3436M-ND	10.91	8.27
	Gold	36 (91.44)	GR	H2MXH-3436G-ND	5.01	3.81
	Gold	36 (91.44)	MC	H2MXH-3436M-ND	10.91	8.27
40	Tin	6 (15.24)	GR	H2MXS-4006G-ND	4.07	3.09
	Tin	6 (15.24)	MC	H2MXS-4006M-ND	5.14	3.90
	Gold	6 (15.24)	GR	H2MXH-4006G-ND	3.26	2.48
	Gold	6 (15.24)	MC	H2MXH-4006M-ND	4.33	3.29
	Tin	18 (45.72)	GR	H2MXS-4018G-ND	5.13	3.90
	Tin	18 (45.72)	MC	H2MXS-4018M-ND	8.35	6.33
	Gold	18 (45.72)	GR	H2MXH-4018G-ND	4.33	3.28
	Gold	18 (45.72)	MC	H2MXH-4018M-ND	7.54	5.72
	Tin	36 (91.44)	GR	H2MXS-4036G-ND	6.73	5.11
	Tin	36 (91.44)	MC	H2MXS-4036M-ND	13.16	9.98
	Gold	36 (91.44)	GR	H2MXH-4036G-ND	5.93	4.50
	Gold	36 (91.44)	MC	H2MXH-4036M-ND	12.35	9.37
50	Tin	6 (15.24)	GR	H2MXS-5006G-ND	4.09	3.11
	Tin	6 (15.24)	MC	H2MXS-5006M-ND	5.54	4.20
	Gold	6 (15.24)	GR	H2MXH-5006G-ND	4.09	3.11
	Gold	6 (15.24)	MC	H2MXH-5006M-ND	5.54	4.20
	Tin	18 (45.72)	GR	H2MXS-5018G-ND	5.22	3.96
	Tin	18 (45.72)	MC	H2MXS-5018M-ND	9.55	7.24
	Gold	18 (45.72)	GR	H2MXH-5018G-ND	5.22	3.96
	Gold	18 (45.72)	MC	H2MXH-5018M-ND	9.55	7.24
	Tin	36 (91.44)	GR	H2MXS-5036G-ND	6.90	5.23
	Tin	36 (91.44)	MC	H2MXS-5036M-ND	15.57	11.80
	Gold	36 (91.44)	GR	H2MXH-5036G-ND	6.90	5.23
	Gold	36 (91.44)	MC	H2MXH-5036M-ND	15.57	11.80
60	Tin	6 (15.24)	GR	H2MXS-6006G-ND	5.97	4.53
	Tin	6 (15.24)	MC	H2MXS-6006M-ND	7.61	5.78
	Gold	6 (15.24)	GR	H2MXH-6006G-ND	5.97	4.53
	Gold	6 (15.24)	MC	H2MXH-6006M-ND	7.61	5.78
	Tin	18 (45.72)	GR	H2MXS-6018G-ND	7.48	5.68
	Tin	18 (45.72)	MC	H2MXS-6018M-ND	12.43	9.42
	Gold	18 (45.72)	GR	H2MXH-6018G-ND	7.48	5.68
	Gold	18 (45.72)	MC	H2MXH-6018M-ND	12.43	9.42
	Tin	36 (91.44)	GR	H2MXS-6036G-ND	9.76	7.40
	Tin	36 (91.44)	MC	H2MXS-6036M-ND	19.65	14.90
	Gold	36 (91.44)	GR	H2MXH-6036G-ND	9.76	7.40
	Gold	36 (91.44)	MC	H2MXH-6036M-ND	19.65	14.90
64	Tin	6 (15.24)	GR	H2MXS-6406G-ND	6.36	4.83
	Tin	6 (15.24)	MC	H2MXS-6406M-ND	8.21	6.23
	Gold	6 (15.24)	GR	H2MXH-6406G-ND	6.36	4.83
	Gold	6 (15.24)	MC	H2MXH-6406M-ND	8.21	6.23
	Tin	18 (45.72)	GR	H2MXS-6418G-ND	7.79	5.91
	Tin	18 (45.72)	MC	H2MXS-6418M-ND	13.34	10.12
	Gold	18 (45.72)	GR	H2MXH-6418G-ND	7.79	5.91
	Gold	18 (45.72)	MC	H2MXH-6418M-ND	13.34	10.12
	Tin	36 (91.44)	GR	H2MXS-6436G-ND	9.95	7.54
	Tin	36 (91.44)	MC	H2MXS-6436M-ND	21.04	15.96
	Gold	36 (91.44)	GR	H2MXH-6436G-ND	9.95	7.54
	Gold	36 (91.44)	MC	H2MXH-6436M-ND	21.04	15.96

Double Ended Style 6

*MC=Multi-Color,
GR=Gray

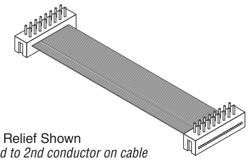

Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

No. of Contacts	Contact Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each 1	10
10	Tin	6 (15.24)	GR	H6MMS-1006G-ND	3.85	2.92
	Tin	6 (15.24)	MC	H6MMS-1006M-ND	4.12	3.13
	Gold	6 (15.24)	GR	H6MMH-1006G-ND	3.85	2.92
	Gold	6 (15.24)	MC	H6MMH-1006M-ND	4.12	3.13
	Tin	18 (45.72)	GR	H6MMS-1018G-ND	4.10	3.11
	Tin	18 (45.72)	MC	H6MMS-1018M-ND	4.92	3.74
	Gold	18 (45.72)	GR	H6MMH-1018G-ND	4.10	3.11
	Gold	18 (45.72)	MC	H6MMH-1018M-ND	4.92	3.74
	Tin	36 (91.44)	GR	H6MMS-1036G-ND	4.48	3.40
	Tin	36 (91.44)	MC	H6MMS-1036M-ND	6.13	4.65
	Gold	36 (91.44)	GR	H6MMH-1036G-ND	4.48	3.40
	Gold	36 (91.44)	MC	H6MMH-1036M-ND	6.13	4.65
14	Tin	6 (15.24)	GR	H6MMS-1406G-ND	3.90	2.96
	Tin	6 (15.24)	MC	H6MMS-1406M-ND	4.32	3.28
	Gold	6 (15.24)	GR	H6MMH-1406G-ND	3.90	2.96
	Gold	6 (15.24)	MC	H6MMH-1406M-ND	4.32	3.28
	Tin	18 (45.72)	GR	H6MMS-1418G-ND	4.25	3.23
	Tin	18 (45.72)	MC	H6MMS-1418M-ND	5.52	4.19
	Gold	18 (45.72)	GR	H6MMH-1418G-ND	4.25	3.23
	Gold	18 (45.72)	MC	H6MMH-1418M-ND	5.52	4.19
	Tin	36 (91.44)	GR	H6MMS-1436G-ND	4.78	3.63
	Tin	36 (91.44)	MC	H6MMS-1436M-ND	7.33	5.56
	Gold	36 (91.44)	GR	H6MMH-1436G-ND	4.78	3.63
	Gold	36 (91.44)	MC	H6MMH-1436M-ND	7.33	5.56
16	Tin	6 (15.24)	GR	H6MMS-1606G-ND	3.92	2.98
	Tin	6 (15.24)	MC	H6MMS-1606M-ND	4.36	3.31
	Gold	6 (15.24)	GR	H6MMH-1606G-ND	3.92	2.98
	Gold	6 (15.24)	MC	H6MMH-1606M-ND	4.36	3.31
	Tin	18 (45.72)	GR	H6MMS-1618G-ND	4.33	3.28
	Tin	18 (45.72)	MC	H6MMS-1618M-ND	5.65	4.28
	Gold	18 (45.72)	GR	H6MMH-1618G-ND	4.33	3.28
	Gold	18 (45.72)	MC	H6MMH-1618M-ND	5.65	4.28
	Tin	36 (91.44)	GR	H6MMS-1636G-ND	4.93	3.74
	Tin	36 (91.44)	MC	H6MMS-1636M-ND	7.57	5.74
	Gold	36 (91.44)	GR	H6MMH-1636G-ND	4.93	3.74
	Gold	36 (91.44)	MC	H6MMH-1636M-ND	7.57	5.74
20	Tin	6 (15.24)	GR	H6MMS-2006G-ND	4.50	3.42
	Tin	6 (15.24)	MC	H6MMS-2006M-ND	5.02	3.81
	Gold	6 (15.24)	GR	H6MMH-2006G-ND	4.50	3.42
	Gold	6 (15.24)	MC	H6MMH-2006M-ND	5.02	3.81
	Tin	18 (45.72)	GR	H6MMS-2018G-ND	5.07	3.85
	Tin	18 (45.72)	MC	H6MMS-2018M-ND	6.62	5.02
	Gold	18 (45.72)	GR	H6MMH-2018G-ND	5.07	3.85
	Gold	18 (45.72)	MC	H6MMH-2018M-ND	6.62	5.02
	Tin	36 (91.44)	GR	H6MMS-2036G-ND	5.93	4.50
	Tin	36 (91.44)	MC	H6MMS-2036M-ND	9.03	6.85
	Gold	36 (91.44)	GR	H6MMH-2036G-ND	5.93	4.50
	Gold	36 (91.44)	MC	H6MMH-2036M-ND	9.03	6.85
24	Tin	6 (15.24)	GR	H6MMS-2406G-ND	5.73	4.34
	Tin	6 (15.24)	MC	H6MMS-2406M-ND	6.46	4.90
	Gold	6 (15.24)	GR	H6MMH-2406G-ND	5.73	4.34
	Gold	6 (15.24)	MC	H6MMH-2406M-ND	6.46	4.90
	Tin	18 (45.72)	GR	H6MMS-2418G-ND	6.26	4.75
	Tin	18 (45.72)	MC	H6MMS-2418M-ND	8.46	6.42
	Gold	18 (45.72)	GR	H6MMH-2418G-ND	6.26	4.75
	Gold	18 (45.72)	MC	H6MMH-2418M-ND	8.46	6.42
	Tin	36 (91.44)	GR	H6MMS-2436G-ND	7.07	5.36
	Tin	36 (91.44)	MC	H6MMS-2436M-ND	11.47	8.70
	Gold	36 (91.44)	GR	H6MMH-2436G-ND	7.07	5.36
	Gold	36 (91.44)	MC	H6MMH-2436M-ND	11.47	8.70
26	Tin	6 (15.24)	GR	H6MMS-2606G-ND	4.94	3.75
	Tin	6 (15.24)	MC	H6MMS-2606M-ND	5.63	4.27
	Gold	6 (15.24)	GR	H6MMH-2606G-ND	4.57	3.47
	Gold	6 (15.24)	MC	H6MMH-2606M-ND	5.26	3.99
	Tin	18 (45.72)	GR	H6MMS-2618G-ND	5.65	4.28
	Tin	18 (45.72)	MC	H6MMS-2618M-ND	7.72	5.85
	Gold	18 (45.72)	GR	H6MMH-2618G-ND	5.27	4.00
	Gold	18 (45.72)	MC	H6MMH-2618M-ND	7.34	5.57
	Tin	36 (91.44)	GR	H6MMS-2636G-ND	6.70	5.09
	Tin	36 (91.44)	MC	H6MMS-2636M-ND	10.84	8.23

(Continued)

ASSMANN

Dip Plugs .1” x .1” Assemblies

Double Ended Style 6 *(Cont.)*

RoHS

No. of Contacts	Contact Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each	
					1	10
26	Gold	36 (91.44)	GR	H6MMH-2636G-ND	6.33	4.81
	Gold	36 (91.44)	MC	H6MMH-2636M-ND	10.47	7.94
30	Tin	6 (15.24)	GR	H6MMS-3006G-ND	5.79	4.39
	Tin	6 (15.24)	MC	H6MMS-3006M-ND	6.82	5.17
	Gold	6 (15.24)	GR	H6MMH-3006G-ND	5.79	4.39
	Gold	6 (15.24)	MC	H6MMH-3006M-ND	6.82	5.17
	Tin	18 (45.72)	GR	H6MMS-3018G-ND	6.45	4.89
	Tin	18 (45.72)	MC	H6MMS-3018M-ND	9.55	7.24
	Gold	18 (45.72)	GR	H6MMH-3018G-ND	6.45	4.89
	Gold	18 (45.72)	MC	H6MMH-3018M-ND	9.55	7.24
	Tin	36 (91.44)	GR	H6MMS-3036G-ND	7.44	5.64
	Tin	36 (91.44)	MC	H6MMS-3036M-ND	13.64	10.34
	Gold	36 (91.44)	GR	H6MMH-3036G-ND	7.44	5.64
	Gold	36 (91.44)	MC	H6MMH-3036M-ND	13.64	10.34
34	Tin	6 (15.24)	GR	H6MMS-3406G-ND	5.84	4.43
	Tin	6 (15.24)	MC	H6MMS-3406M-ND	6.82	5.17
	Gold	6 (15.24)	GR	H6MMH-3406G-ND	5.84	4.43
	Gold	6 (15.24)	MC	H6MMH-3406M-ND	6.82	5.17
	Tin	18 (45.72)	GR	H6MMS-3418G-ND	6.60	5.01
	Tin	18 (45.72)	MC	H6MMS-3418M-ND	9.55	7.24
	Gold	18 (45.72)	GR	H6MMH-3418G-ND	6.60	5.01
	Gold	18 (45.72)	MC	H6MMH-3418M-ND	9.55	7.24
	Tin	36 (91.44)	GR	H6MMS-3436G-ND	7.74	5.87
	Tin	36 (91.44)	MC	H6MMS-3436M-ND	13.64	10.34
	Gold	36 (91.44)	GR	H6MMH-3436G-ND	7.74	5.87
	Gold	36 (91.44)	MC	H6MMH-3436M-ND	13.64	10.34
40	Tin	6 (15.24)	GR	H6MMS-4006G-ND	7.60	5.77
	Tin	6 (15.24)	MC	H6MMS-4006M-ND	8.67	6.58
	Gold	6 (15.24)	GR	H6MMH-4006G-ND	5.99	4.54
	Gold	6 (15.24)	MC	H6MMH-4006M-ND	7.06	5.36
	Tin	18 (45.72)	GR	H6MMS-4018G-ND	8.67	6.57
	Tin	18 (45.72)	MC	H6MMS-4018M-ND	11.88	9.01
	Gold	18 (45.72)	GR	H6MMH-4018G-ND	7.05	5.35
	Gold	18 (45.72)	MC	H6MMH-4018M-ND	10.27	7.79
	Tin	36 (91.44)	GR	H6MMS-4036G-ND	10.27	7.79
	Tin	36 (91.44)	MC	H6MMS-4036M-ND	16.69	12.66
	Gold	36 (91.44)	GR	H6MMH-4036G-ND	8.65	6.56
	Gold	36 (91.44)	MC	H6MMH-4036M-ND	15.08	11.44
50	Tin	6 (15.24)	GR	H6MMS-5006G-ND	7.63	5.79
	Tin	6 (15.24)	MC	H6MMS-5006M-ND	9.07	6.88
	Gold	6 (15.24)	GR	H6MMH-5006G-ND	7.63	5.79
	Gold	6 (15.24)	MC	H6MMH-5006M-ND	9.07	6.88
	Tin	18 (45.72)	GR	H6MMS-5018G-ND	8.75	6.64
	Tin	18 (45.72)	MC	H6MMS-5018M-ND	13.08	9.92
	Gold	18 (45.72)	GR	H6MMH-5018G-ND	8.75	6.64
	Gold	18 (45.72)	MC	H6MMH-5018M-ND	13.08	9.92
	Tin	36 (91.44)	GR	H6MMS-5036G-ND	10.43	7.91
	Tin	36 (91.44)	MC	H6MMS-5036M-ND	19.10	14.48
	Gold	36 (91.44)	GR	H6MMH-5036G-ND	10.43	7.91
	Gold	36 (91.44)	MC	H6MMH-5036M-ND	19.10	14.48
60	Tin	6 (15.24)	GR	H6MMS-6006G-ND	11.17	8.48
	Tin	6 (15.24)	MC	H6MMS-6006M-ND	12.82	9.72
	Gold	6 (15.24)	GR	H6MMH-6006G-ND	11.17	8.48
	Gold	6 (15.24)	MC	H6MMH-6006M-ND	12.82	9.72
	Tin	18 (45.72)	GR	H6MMS-6018G-ND	12.69	9.63
	Tin	18 (45.72)	MC	H6MMS-6018M-ND	17.63	13.37
	Gold	18 (45.72)	GR	H6MMH-6018G-ND	12.69	9.63
	Gold	18 (45.72)	MC	H6MMH-6018M-ND	17.63	13.37
	Tin	36 (91.44)	GR	H6MMS-6036G-ND	14.97	11.35
	Tin	36 (91.44)	MC	H6MMS-6036M-ND	24.85	18.85
	Gold	36 (91.44)	GR	H6MMH-6036G-ND	14.97	11.35
	Gold	36 (91.44)	MC	H6MMH-6036M-ND	24.85	18.85
64	Tin	6 (15.24)	GR	H6MMS-6406G-ND	12.00	9.10
	Tin	6 (15.24)	MC	H6MMS-6406M-ND	13.85	10.50
	Gold	6 (15.24)	GR	H6MMH-6406G-ND	12.00	9.10
	Gold	6 (15.24)	MC	H6MMH-6406M-ND	13.85	10.50
	Tin	18 (45.72)	GR	H6MMS-6418G-ND	13.44	10.19
	Tin	18 (45.72)	MC	H6MMS-6418M-ND	18.98	14.40
	Gold	18 (45.72)	GR	H6MMH-6418G-ND	13.44	10.19
	Gold	18 (45.72)	MC	H6MMH-6418M-ND	18.98	14.40
	Tin	36 (91.44)	GR	H6MMS-6436G-ND	15.59	11.82
	Tin	36 (91.44)	MC	H6MMS-6436M-ND	26.68	20.23
	Gold	36 (91.44)	GR	H6MMH-6436G-ND	15.59	11.82
	Gold	36 (91.44)	MC	H6MMH-6436M-ND	26.68	20.23

Double Ended Style 8

*MC=Multi-Color, GR=Gray

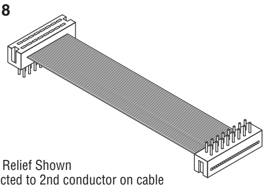

Dip Connector without Strain Relief Shown
Pin #1 on connector is connected to 2nd conductor on cable

No. of Contacts	Contact Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each	
					1	10
10	Tin	6 (15.24)	GR	H8MMS-1006G-ND	3.85	2.92
	Tin	6 (15.24)	MC	H8MMS-1006M-ND	4.12	3.13
	Gold	6 (15.24)	GR	H8MMH-1006G-ND	3.85	2.92
	Gold	6 (15.24)	MC	H8MMH-1006M-ND	4.12	3.13
	Tin	18 (45.72)	GR	H8MMS-1018G-ND	4.10	3.11
	Tin	18 (45.72)	MC	H8MMS-1018M-ND	4.92	3.74
	Gold	18 (45.72)	GR	H8MMH-1018G-ND	4.10	3.11
	Gold	18 (45.72)	MC	H8MMH-1018M-ND	4.92	3.74
	Tin	36 (91.44)	GR	H8MMS-1036G-ND	4.48	3.40
	Tin	36 (91.44)	MC	H8MMS-1036M-ND	6.13	4.65
	Gold	36 (91.44)	GR	H8MMH-1036G-ND	4.48	3.40
	Gold	36 (91.44)	MC	H8MMH-1036M-ND	6.13	4.65
14	Tin	6 (15.24)	GR	H8MMS-1406G-ND	3.90	2.96
	Tin	6 (15.24)	MC	H8MMS-1406M-ND	4.32	3.28
	Gold	6 (15.24)	GR	H8MMH-1406G-ND	3.90	2.96
	Gold	6 (15.24)	MC	H8MMH-1406M-ND	4.32	3.28
	Tin	18 (45.72)	GR	H8MMS-1418G-ND	4.25	3.23
	Tin	18 (45.72)	MC	H8MMS-1418M-ND	5.52	4.19
	Gold	18 (45.72)	GR	H8MMH-1418G-ND	4.25	3.23
	Gold	18 (45.72)	MC	H8MMH-1418M-ND	5.52	4.19
	Tin	36 (91.44)	GR	H8MMS-1436G-ND	4.78	3.63
	Tin	36 (91.44)	MC	H8MMS-1436M-ND	7.33	5.56
	Gold	36 (91.44)	GR	H8MMH-1436G-ND	4.78	3.63
	Gold	36 (91.44)	MC	H8MMH-1436M-ND	7.33	5.56
16	Tin	6 (15.24)	GR	H8MMS-1606G-ND	3.92	2.98
	Tin	6 (15.24)	MC	H8MMS-1606M-ND	4.36	3.31
	Gold	6 (15.24)	GR	H8MMH-1606G-ND	3.92	2.98
	Gold	6 (15.24)	MC	H8MMH-1606M-ND	4.36	3.31
	Tin	18 (45.72)	GR	H8MMS-1618G-ND	4.33	3.28
	Tin	18 (45.72)	MC	H8MMS-1618M-ND	5.65	4.28
	Gold	18 (45.72)	GR	H8MMH-1618G-ND	4.33	3.28
	Gold	18 (45.72)	MC	H8MMH-1618M-ND	5.65	4.28
	Tin	36 (91.44)	GR	H8MMS-1636G-ND	4.93	3.74
	Tin	36 (91.44)	MC	H8MMS-1636M-ND	7.57	5.74
	Gold	36 (91.44)	GR	H8MMH-1636G-ND	4.93	3.74
	Gold	36 (91.44)	MC	H8MMH-1636M-ND	7.57	5.74
20	Tin	6 (15.24)	GR	H8MMS-2006G-ND	4.50	3.42
	Tin	6 (15.24)	MC	H8MMS-2006M-ND	5.02	3.81
	Gold	6 (15.24)	GR	H8MMH-2006G-ND	4.50	3.42
	Gold	6 (15.24)	MC	H8MMH-2006M-ND	5.02	3.81
	Tin	18 (45.72)	GR	H8MMS-2018G-ND	5.07	3.85
	Tin	18 (45.72)	MC	H8MMS-2018M-ND	6.62	5.02
	Gold	18 (45.72)	GR	H8MMH-2018G-ND	5.07	3.85
	Gold	18 (45.72)	MC	H8MMH-2018M-ND	6.62	5.02
	Tin	36 (91.44)	GR	H8MMS-2036G-ND	5.93	4.50
	Tin	36 (91.44)	MC	H8MMS-2036M-ND	9.03	6.85
	Gold	36 (91.44)	GR	H8MMH-2036G-ND	5.93	4.50
	Gold	36 (91.44)	MC	H8MMH-2036M-ND	9.03	6.85
24	Tin	6 (15.24)	GR	H8MMS-2406G-ND	5.73	4.34
	Tin	6 (15.24)	MC	H8MMS-2406M-ND	6.46	4.90
	Gold	6 (15.24)	GR	H8MMH-2406G-ND	5.73	4.34
	Gold	6 (15.24)	MC	H8MMH-2406M-ND	6.46	4.90
	Tin	18 (45.72)	GR	H8MMS-2418G-ND	6.26	4.75
	Tin	18 (45.72)	MC	H8MMS-2418M-ND	8.46	6.42
	Gold	18 (45.72)	GR	H8MMH-2418G-ND	6.26	4.75
	Gold	18 (45.72)	MC	H8MMH-2418M-ND	8.46	6.42
	Tin	36 (91.44)	GR	H8MMS-2436G-ND	7.07	5.36
	Tin	36 (91.44)	MC	H8MMS-2436M-ND	11.47	8.70
	Gold	36 (91.44)	GR	H8MMH-2436G-ND	7.07	5.36
	Gold	36 (91.44)	MC	H8MMH-2436M-ND	11.47	8.70
26	Tin	6 (15.24)	GR	H8MMS-2606G-ND	4.94	3.75
	Tin	6 (15.24)	MC	H8MMS-2606M-ND	5.63	4.27
	Gold	6 (15.24)	GR	H8MMH-2606G-ND	4.57	3.47
	Gold	6 (15.24)	MC	H8MMH-2606M-ND	5.26	3.99
	Tin	18 (45.72)	GR	H8MMS-2618G-ND	5.65	4.28
	Tin	18 (45.72)	MC	H8MMS-2618M-ND	7.72	5.85
	Gold	18 (45.72)	GR	H8MMH-2618G-ND	5.27	4.00
	Gold	18 (45.72)	MC	H8MMH-2618M-ND	7.34	5.57
26	Tin	36 (91.44)	GR	H8MMS-2636G-ND	6.70	5.09
	Tin	36 (91.44)	MC	H8MMS-2636M-ND	10.84	8.23
	Gold	36 (91.44)	GR	H8MMH-2636G-ND	6.33	4.81
	Gold	36 (91.44)	MC	H8MMH-2636M-ND	10.47	7.94
30	Tin	6 (15.24)	GR	H8MMS-3006G-ND	5.79	4.39
	Tin	6 (15.24)	MC	H8MMS-3006M-ND	6.82	5.17
	Gold	6 (15.24)	GR	H8MMH-3006G-ND	5.79	4.39
	Gold	6 (15.24)	MC	H8MMH-3006M-ND	6.82	5.17
	Tin	18 (45.72)	GR	H8MMS-3018G-ND	6.45	4.89
	Tin	18 (45.72)	MC	H8MMS-3018M-ND	9.55	7.24
	Gold	18 (45.72)	GR	H8MMH-3018G-ND	6.45	4.89
	Gold	18 (45.72)	MC	H8MMH-3018M-ND	9.55	7.24
	Tin	36 (91.44)	GR	H8MMS-3036G-ND	7.44	5.64
	Tin	36 (91.44)	MC	H8MMS-3036M-ND	13.64	10.34
	Gold	36 (91.44)	GR	H8MMH-3036G-ND	7.44	5.64
	Gold	36 (91.44)	MC	H8MMH-3036M-ND	13.64	10.34
34	Tin	6 (15.24)	GR	H8MMS-3406G-ND	5.84	4.43
	Tin	6 (15.24)	MC	H8MMS-3406M-ND	6.82	5.17
	Gold	6 (15.24)	GR	H8MMH-3406G-ND	5.84	4.43
	Gold	6 (15.24)	MC	H8MMH-3406M-ND	6.82	5.17
	Tin	18 (45.72)	GR	H8MMS-3418G-ND	6.60	5.01
	Tin	18 (45.72)	MC	H8MMS-3418M-ND	9.55	7.24
	Gold	18 (45.72)	GR	H8MMH-3418G-ND	6.60	5.01
	Gold	18 (45.72)	MC	H8MMH-3418M-ND	9.55	7.24
	Tin	36 (91.44)	GR	H8MMS-3436G-ND	7.74	5.87
	Tin	36 (91.44)	MC	H8MMS-3436M-ND	13.64	10.34
	Gold	36 (91.44)	GR	H8MMH-3436G-ND	7.74	5.87
	Gold	36 (91.44)	MC	H8MMH-3436M-ND	13.64	10.34
40	Tin	6 (15.24)	GR	H8MMS-4006G-ND	7.60	5.77
	Tin	6 (15.24)	MC	H8MMS-4006M-ND	8.67	6.58
	Gold	6 (15.24)	GR	H8MMH-4006G-ND	5.99	4.54
	Gold	6 (15.24)	MC	H8MMH-4006M-ND	7.06	5.36
	Tin	18 (45.72)	GR	H8MMS-4018G-ND	8.67	6.57
	Tin	18 (45.72)	MC	H8MMS-4018M-ND	11.88	9.01
	Gold	18 (45.72)	GR	H8MMH-4018G-ND	7.05	5.35
	Gold	18 (45.72)	MC	H8MMH-4018M-ND	10.27	7.79
	Tin	36 (91.44)	GR	H8MMS-4036G-ND	10.27	7.79
	Tin	36 (91.44)	MC	H8MMS-4036M-ND	16.69	12.66
	Gold	36 (91.44)	GR	H8MMH-4036G-ND	8.65	6.56
	Gold	36 (91.44)	MC	H8MMH-4036M-ND	15.08	11.44
50	Tin	6 (15.24)	GR	H8MMS-5006G-ND	7.63	5.79
	Tin	6 (15.24)	MC	H8MMS-5006M-ND	9.07	6.88
	Gold	6 (15.24)	GR	H8MMH-5006G-ND	7.63	5.79
	Gold	6 (15.24)	MC	H8MMH-5006M-ND	9.07	6.88
	Tin	18 (45.72)	GR	H8MMS-5018G-ND	8.75	6.64
	Tin	18 (45.72)	MC	H8MMS-5018M-ND	13.08	9.92
	Gold	18 (45.72)	GR	H8MMH-5018G-ND	8.75	6.64
	Gold	18 (45.72)	MC	H8MMH-5018M-ND	13.08	9.92
	Tin	36 (91.44)	GR	H8MMS-5036G-ND	10.43	7.91
	Tin	36 (91.44)	MC	H8MMS-5036M-ND	19.10	14.48
	Gold	36 (91.44)	GR	H8MMH-5036G-ND	10.43	7.91
	Gold	36 (91.44)	MC	H8MMH-5036M-ND	19.10	14.48
60	Tin	6 (15.24)	GR	H8MMS-6006G-ND	11.17	8.48
	Tin	6 (15.24)	MC	H8MMS-6006M-ND	12.82	9.72
	Gold	6 (15.24)	GR	H8MMH-6006G-ND	11.17	8.48
	Gold	6 (15.24)	MC	H8MMH-6006M-ND	12.82	9.72
	Tin	18 (45.72)	GR	H8MMS-6018G-ND	12.69	9.63
	Tin	18 (45.72)	MC	H8MMS-6018M-ND	17.63	13.37
	Gold	18 (45.72)	GR	H8MMH-6018G-ND	12.69	9.63
	Gold	18 (45.72)	MC	H8MMH-6018M-ND	17.63	13.37
	Tin	36 (91.44)	GR	H8MMS-6036G-ND	14.97	11.35
	Tin	36 (91.44)	MC	H8MMS-6036M-ND	24.85	18.85
	Gold	36 (91.44)	GR	H8MMH-6036G-ND	14.97	11.35
	Gold	36 (91.44)	MC	H8MMH-6036M-ND	24.85	18.85
64	Tin	6 (15.24)	GR	H8MMS-6406G-ND	12.00	9.10
	Tin	6 (15.24)	MC	H8MMS-6406M-ND	13.85	10.50
	Gold	6 (15.24)	GR	H8MMH-6406G-ND	12.00	9.10
	Gold	6 (15.24)	MC	H8MMH-6406M-ND	13.85	10.50
	Tin	18 (45.72)	GR	H8MMS-6418G-ND	13.44	10.19
	Tin	18 (45.72)	MC	H8MMS-6418M-ND	18.98	14.40
	Gold	18 (45.72)	GR	H8MMH-6418G-ND	13.44	10.19
	Gold	18 (45.72)	MC	H8MMH-6418M-ND	18.98	14.40
	Tin	36 (91.44)	GR	H8MMS-6436G-ND	15.59	11.82
	Tin	36 (91.44)	MC	H8MMS-6436M-ND	26.68	20.23
	Gold	36 (91.44)	GR	H8MMH-6436G-ND	15.59	11.82
	Gold	36 (91.44)	MC	H8MMH-6436M-ND	26.68	20.23

3M Mini D Ribbon (MDR) Connectors

Dimensions in Inches (mm)

Fig. 1 — IDC Wiremount

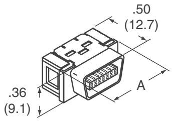

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30μ" minimum Gold • Wire Accommodation: Gray: 26AWG Solid, Black: 28AWG Stranded, 30AWG Solid • IEEE 1284C Interface as a 36 Contact Connector

Fig. 2 — Solder Connector

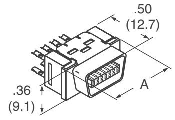

- Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 20μ" minimum Gold • Solder Area: Tin-Lead • Wire Accommodation: 24, 26, 28 and 30AWG

Fig. 3 — Boardmount Thru-Hole Right Angle

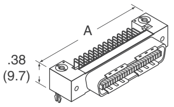

- Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 30μ" minimum Gold • IEEE 1284C Interface as a 36 Contact Connector

Fig. 4 — IDC Wiremount Panelmount

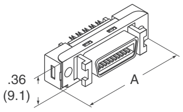

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30μ" minimum Gold • Wire Accommodation: 28AWG Stranded, 30AWG Solid • IEEE 1284C Interface as a 36 Contact Connector • Interface latch

Fig. 5 — Boardmount Thru-Hole Right Angle

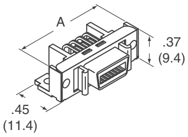

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30μ" minimum Gold • Interface latch

Fig. 6 — Boardmount Thru-Hole Vertical

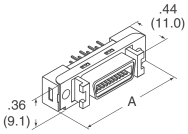

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30μ" minimum Gold • IEEE 1284C Interface as a 36 Contact Connector • Interface latch

Fig. 7 — Surface Mount Right Angle

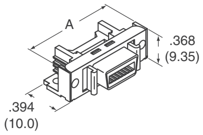

- Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 20μ" minimum Gold • Interface latch

Fig. 8 — Surface Mount Right Angle *NEW!*

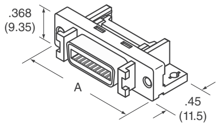

- Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 20μ" minimum Gold • Interface latch

Fig. 9 — Boardmount Compliant Pin Vertical

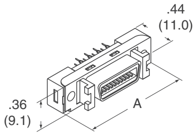

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30μ" minimum Gold • Tails: Gold Flash

Fig. 10 — Plastic Shielded Junction Shell for Round Cable

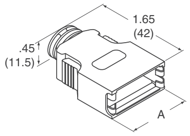

- Outer Shell Material: ABS • UL 94V-0 • Inner Shell Material: Steel, .020" • Plating: Nickel

Fig. 11 — Plastic Solder Junction Shell, Non-Shielded

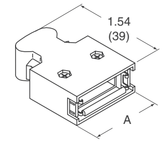

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Quick release metal latching mechanism

Fig. 12 — Metal Junction Shell for Round Cable

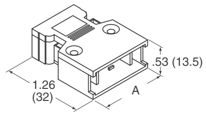

- Material: Aluminum, .050" • Plating: Nickel

Fig. 13 — 60° Metal Junction Shell for Round Cable

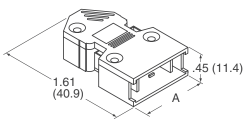

- Material: Aluminum, .050" • Plating: Nickel

Fig. 14 — MDR Cable Assembly Plug

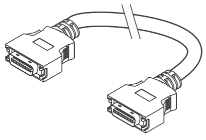

Dimension A = Length
(from Strain Relief to Strain Relief)

Fig. 15 — I/O Mounting Hardware

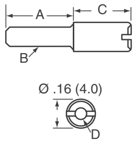

3M #	A	B	C	D
3341-10	.35(8.9)	M2.5	.30(7.6)	.230 DP
3341-16	.35(8.9)	#4-40	.30(7.6)	.230 DP
3341-17	.35(8.9)	#4-40	.30(7.6)	.230 DP
3341-13	.35(8.9)	M2.5	.30(7.6)	.230 DP
3341-25	.41(10.5)	M2.5	.12(3.0)	.120 DP
3341-31	.40(10.2)	M2.5	.15(3.8)	.100 DP
3341-32	.50(12.5)	M2.5	.30(7.6)	.203 DP

- Material: Stainless Steel • Plating: Passivated

Fig. 16 — Board Lock and Panel Mounting Screws

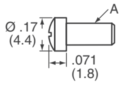

3M #	A
3344-26	M2.6 x 8mm
3344-3	M2.5 x 6mm
3344-38	M2.5 x 8mm
3344-4	#4-40 x 1/4
3344-44	#4-40 x 3/8

- Material: Steel • Plating: Zinc

Fig.	Color	No. of Pos.	Dim. A In. (mm)	Digi-Key Part No.	Price Each				3M Part No.
					1	10	100	250	
Plugs — Shielded, .050" — RoHS Compliant									
1	Black	14	.72 (18.2)	MPB14A-ND	4.87	4.10	3.70	3.51	10114-6000EC
		20	.87 (22.0)	MPB20A-ND	5.03	4.24	3.83	3.63	10120-6000EC
		26	1.02 (25.8)	MPB26A-ND	5.20	4.38	3.95	3.75	10126-6000EC
		36	1.27 (32.2)	MPB36A-ND	6.24	5.25	4.74	4.50	10136-6000EC
		40	1.37 (34.7)	MPB40A-ND	6.45	5.43	4.90	4.65	10140-6000EC
		50	1.62 (41.1)	MPB50A-ND	6.88	5.80	5.23	4.97	10150-6000EC
		68	2.07 (52.5)	MPB68A-ND	7.07	5.95	5.38	5.10	10168-6000EC
		80	2.37 (60.1)	MPB80A-ND	8.59	7.23	6.53	6.20	10180-6000EC
		100	2.87 (72.8)	MPB100A-ND	10.21	8.60	7.76	7.37	101A0-6000EC
	Gray	68	2.07 (52.5)	MPA68A-ND	6.49	5.46	4.93	4.68	10168-6010EC
2	Black	14	.72 (18.2)	3M1767-ND	6.16	5.18	4.68	4.44	10114-3000PE
		20	.87 (22.0)	3M1768-ND	6.70	5.64	5.09	4.83	10120-3000PE
		26	1.02 (25.8)	3M1769-ND	7.49	6.30	5.69	5.40	10126-3000PE
		36	1.27 (32.2)	3M1770-ND	7.95	6.69	6.04	5.73	10136-3000PE
		40	1.37 (34.7)	3M1771-ND	8.32	7.00	6.32	6.00	10140-3000PE
		50	1.62 (41.1)	3M1772-ND	8.99	7.56	6.83	6.48	10150-3000PE
3	Black	20	1.31 (33.3)	3M1806-ND	13.64	11.48	10.37	9.84	10120-52B2PC
		26	1.46 (37.2)	3M1807-ND	14.14	11.90	10.75	10.20	10126-52B2PC
		36	1.71 (43.5)	3M1808-ND	14.66	12.34	11.14	10.58	10136-52B2PC
		50	2.06 (52.4)	3M1809-ND	15.31	12.88	11.63	11.04	10150-52B2PC
Receptacles — Shielded, .050"									
4	Black	20	1.31 (33.4)	MRB20A-ND◆	8.88	7.48	6.75	6.41	10220-0210EC
		26	1.46 (37.2)	MRB26A-ND◆	9.61	8.09	7.30	6.93	10226-0210EC
		36	1.71 (43.5)	MRB36A-ND◆	10.77	9.07	8.19	7.77	10236-0210EC
		40	1.81 (46.1)	MRB40A-ND◆	11.32	9.52	8.60	8.16	10240-0210EC
		50	2.06 (52.4)	MRB50A-ND◆	12.52	10.54	9.52	9.03	10250-0210EC
		68	2.51 (63.8)	MRB68A-ND◆	14.62	12.31	11.11	10.55	10268-0210EC
5	Beige	14	1.16 (29.6)	3M1811-ND◆	4.20	3.54	3.20	3.03	10214-55G3PC
		20	1.31 (33.4)	3M1814-ND◆	3.72	3.14	2.83	2.69	10220-55G3PC
		20	1.31 (33.4)	3M1815-ND◆	4.37	3.68	3.32	3.15	10220-55H3PC
		26	1.46 (37.2)	3M1818-ND◆	4.04	3.40	3.07	2.91	10226-55G3PC
		36	1.71 (43.5)	3M1820-ND◆	4.43	3.73	3.37	3.20	10236-55G3PC
		36	1.71 (43.5)	3M1821-ND◆	4.43	3.73	3.37	3.20	10236-55H3PC
		40	1.81 (46.1)	3M1824-ND◆	5.49	4.62	4.18	3.96	10240-55G3PC
		50	2.06 (52.4)	3M1766-ND◆	5.20	4.38	3.95	3.75	10250-55H3PC
		68	2.51 (63.8)	3M1828-ND◆	6.76	5.69	5.14	4.88	10268-55H3PC
	Black	68	2.51 (63.8)	3M1832-ND◆	10.82	9.10	8.22	7.80	10268-5JBEPC
6	Black	14	1.16 (29.5)	3M1812-ND◆	4.37	3.68	3.32	3.15	10214-6212PC
		20	1.31 (33.4)	3M1816-ND◆	4.58	3.85	3.48	3.30	10220-6212PC
		26	1.46 (37.2)	3M1819-ND◆	4.74	3.99	3.61	3.42	10226-6212PC
		36	1.71 (43.5)	3M1822-ND◆	4.89	4.12	3.72	3.53	10236-6212PC
		40	1.81 (46.1)	3M1724-ND	5.10	4.29	3.88	3.68	10240-6212VC
		40	1.81 (46.1)	3M1825-ND◆	5.10	4.29	3.88	3.68	10240-6212PC
		50	2.06 (52.4)	3M1827-ND◆	5.41	4.55	4.11	3.90	10250-6212PC
		68	2.51 (63.8)	3M1829-ND◆	6.32	5.32	4.81	4.56	10268-6212PC
		80	2.81 (71.5)	3M1830-ND◆	8.53	7.18	6.48	6.15	10280-6212PC
		100	3.31 (84.2)	3M1831-ND◆	9.11	7.67	6.93	6.57	102A0-6212PC
7	Beige	14	1.16 (29.5)	3M1810-ND◆	7.28	6.13	5.53	5.25	10214-1210PE
		20	1.32 (33.4)	3M1813-ND◆	7.45	6.27	5.66	5.37	10220-1210PE
		26	1.50 (38.2)	3M1731-ND	7.74	6.51	5.88	5.58	10226-1210VE
		26	1.50 (38.2)	3M1817-ND◆	7.74	6.51	5.88	5.58	10226-1210PE
		40	1.85 (47.1)	3M1823-ND◆	8.94	7.53	6.80	6.45	10240-1210PE
		50	2.06 (52.4)	3M1733-ND	9.36	7.88	7.11	6.75	10250-1210VE
		50	2.06 (52.4)	3M1826-ND◆	9.36	7.88	7.11	6.75	10250-1210PE
8	Beige	14	1.16 (29.5)	3M6469-ND◆ ***NEW!***	8.09	6.81	6.15	5.84	10214-1S10PE
		20	1.31 (33.3)	3M6470-ND◆ ***NEW!***	8.26	6.95	6.28	5.96	10220-1S10PE
		26	1.46 (37.2)	3M6471-ND◆ ***NEW!***	8.59	7.23	6.53	6.20	10226-1S10PE
		40	1.81 (46.1)	3M6472-ND◆ ***NEW!***	9.92	8.35	7.54	7.16	10240-1S10PE
		50	2.06 (52.4)	3M6473-ND◆ ***NEW!***	10.40	8.75	7.90	7.50	10250-1S10PE
9	Black	14	1.16 (29.5)	3M1734-ND◆	8.69	7.32	6.61	6.27	10214-R21TS
		36	1.71 (43.5)	3M1735-ND◆	9.19	7.74	6.99	6.63	10236-R21TS
		40	1.81 (46.1)	3M1736-ND◆	9.36	7.88	7.11	6.75	10240-R21TS
		68	2.51 (63.8)	3M1737-ND◆	10.90	9.17	8.28	7.86	10268-R21TS
		80	2.81 (71.5)	3M1738-ND◆	14.85	12.50	11.29	10.71	10280-R21TS
Connector Junction Shells — .050" — RoHS Compliant									
10	Beige	14	1.02 (25.9)	3M1739-ND	4.68	3.94	3.56	3.38	10314-3210-000
		20	1.17 (29.7)	3M1740-ND	4.06	3.42	3.09	2.93	10320-3210-000
		26	1.32 (33.5)	3M1741-ND	4.14	3.49	3.15	2.99	10326-3210-000
		36	1.57 (39.8)	3M1742-ND	4.22	3.56	3.21	3.05	10336-3210-000
		40	1.67 (42.4)	3M1765-ND	4.78	4.03	3.64	3.45	10340-3210-000
		50	1.92 (48.7)	3M1743-ND	4.35	3.66	3.31	3.14	10350-3210-000
		68	2.37 (60.1)	3M1744-ND	4.45	3.75	3.39	3.21	10368-3210-000
11	Black	14	1.16 (29.5)	3M1745-ND	6.99	5.88	5.31	5.04	10314-52F0-008
		20	1.31 (33.3)	3M1746-ND	7.20	6.06	5.47	5.19	10320-52F0-008
		26	1.46 (37.2)	3M1747-ND	7.40	6.23	5.63	5.34	10326-52F0-008
		36	1.71 (43.5)	3M1748-ND	7.49	6.30	5.69	5.40	10336-52F0-008
		50	2.06 (52.4)	3M1749-ND	7.70	6.48	5.85	5.55	10350-52F0-008

◆ ***RoHS Compliant*** ‡ Over-molded 4-40 thumbscrew
Δ Discrete 4-40 thumbscrew shell kit

(Continued)

Mini D Ribbon (MDR) Connectors *(Cont.)*

Fig.	Color	No. of Pos.	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	10	100	250	3M Part No.
12	—	14	1.01 (25.8)	3M1750-ND	11.40	9.59	8.66	8.22	10314-A200-00
		20	1.17 (29.7)	3M1751-ND	10.15	8.54	7.72	7.32	10320-A200-00
		26	1.32 (33.5)	3M1752-ND	10.92	9.19	8.30	7.88	10326-A200-00
		36	1.57 (39.8)	3M1753-ND	11.54	9.72	8.77	8.33	10336-A200-00
		40	1.67 (42.4)	3M1754-ND	12.38	10.42	9.41	8.93	10340-A200-00
		50	1.92 (48.7)	3M1755-ND	12.90	10.85	9.80	9.30	10350-A200-00
		68	2.37 (60.1)	3M1756-ND	13.52	11.38	10.27	9.75	10368-A200-00
		100	3.16 (80.2)	3M1757-ND	15.08	12.69	11.46	10.88	103A0-A200-00
13	—	14	1.02 (25.8)	3M1758-ND	9.94	8.37	7.56	7.17	10314-A500-00
		26	1.32 (33.5)	3M1759-ND	11.59	9.75	8.81	8.36	10326-A500-00
		36	1.57 (39.8)	3M1760-ND	11.79	9.93	8.96	8.51	10336-A500-00
		40	1.67 (42.4)	3M1761-ND	14.04	11.82	10.67	10.13	10340-A500-00
		50	1.92 (48.7)	3M1762-ND	13.10	11.03	9.96	9.45	10350-A500-00
		68	2.37 (60.1)	3M1763-ND	14.00	11.78	10.64	10.10	10368-A500-00
MDR Cable Assemblies — RoHS Compliant									
14	Beige	26	.5 meters	MCA106-.5-ND	54.03	47.28	44.92	42.22	14526-EZ5B-050-02C
		26	1 meter	MCA107-1-ND	60.22	52.70	50.07	47.05	14526-EZ5B-100-02C
		26	2 meters	MCA108-2-ND	72.61	63.54	60.36	56.73	14526-EZ5B-200-02C
		26	3 meters	MCA109-3-ND	84.99	74.37	70.65	66.40	14526-EZ5B-300-02C
		36	1 meter	MCA116-1-ND‡	71.41	62.49	59.36	55.79	14T36-SZ6B-100-0HC
		36	2 meters	MCA117-2-ND‡	81.63	71.43	67.86	63.78	14T36-SZ6B-200-0HC
		36	5 meters	MCA118-5-ND‡	116.99	102.37	97.25	91.40	14T36-SZ6B-500-0HC
		50	1 meter	MCA110-1-ND‡	103.71	90.75	86.22	81.03	14T50-SZWB-100-0NC
		50	2 meters	MCA111-2-ND‡	120.74	105.65	100.37	94.33	14T50-SZWB-200-0NC
		50	5 meters	MCA112-5-ND‡	177.62	155.42	147.65	138.77	14T50-SZWB-500-0NC
		50	1 meter	MCA113-1-NDΔ	106.10	92.84	88.20	82.89	14B50-SZWB-100-0NC
		50	2 meters	MCA114-2-NDΔ	124.43	108.88	103.44	97.22	14B50-SZWB-200-0NC
		50	5 meters	MCA115-5-NDΔ	180.59	158.02	150.12	141.09	14B50-SZWB-500-0NC

◆ ***RoHS Compliant*** ‡ Over-molded 4-40 thumbscrew Δ Discrete 4-40 thumbscrew shell kit

Fig.	Description	Digi-Key Part No.	Pricing 1	100	500	1,000	3M Part No.
Jack Sockets, .050" — RoHS Compliant							
15	M2.5/M2.5	MDVS10-ND	2.08	158.00	715.00	1300.00	3341-10BULK
	#4-40/#4-40	MDVS16-ND	2.27	172.22	779.35	1417.00	3341-16BULK
	#4-40/#4-40	MDVS17-ND	1.71	129.56	586.30	1066.00	3341-17KIT
	M2.5/#4-40	MDVS13-ND	1.50	113.76	514.80	936.00	3341-13BULK
	M2.5/M2	MDVS25-ND	2.85	216.46	979.55	1781.00	3341-25
	M2.5/#4-40	MDVS31-ND	1.66	126.40	572.00	1040.00	3341-31BULK
	M2.5/#4-40	MDVS32-ND	1.93	146.94	664.95	1209.00	3341-32BULK

Fig.	Description	Digi-Key Part No.	Pricing 10	100	500	1,000	3M Part No.
Screws (Steel with Zinc Plating), .050" — RoHS Compliant							
16	Board Lock Screw, M2.6 x 8mm	MDVT26-ND*	1.50	10.50	43.75	80.00	3344-26
	Board Lock Screw, M2.5 x 6.0mm	MDVT03-ND*	6.00	42.00	175.00	320.00	3344-3
	Panel Mount Screw, M2.5 x 8.0mm	MDVT38-ND*	3.30	23.10	96.25	176.00	3344-38
	Board Lock Screw, #4-40 x 1/4"	MDVT04-ND*	2.40	16.80	70.00	128.00	3344-4
	Panel Mount Screw, #4-40 x 3/8"	MDVT44-ND*	1.50	10.50	43.75	80.00	3344-44

* Quantity of one equals one pair.

Shielded Compact Ribbon (SCR) Connectors

Features:

- Robust ribbon style contact for reliable repetitive plugging
- 360° shielding for excellent EMI protection
- 10 contacts can carry signal or power (up to 1A per pin)
- Polarized to provide proper cable insertion
- Vibration resistant

Specifications:

- Insulation Material: Glass-filled LCP or Glass-filled Nylon
- Flammability: UL 94V-0
- Color: Black
- Contact Material: Phosphor Bronze or Copper Alloy
- Shroud Material: Steel
- Current Rating: 1A
- Voltage Rating: 150VAC/200VDC
- Temperature Rating: -55°C ~ 85°C

Dimensions in mm

Fig. 1

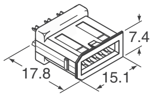

Fig. 2

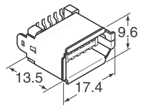

Fig. 3

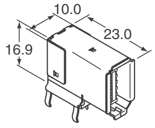

Fig. 4

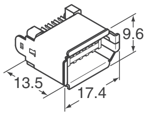

Fig.	Description	Digi Key Part No.	Price Each 1	10	100	3M Part No.
1	Receptacle, Wiremount	3M6453-ND	3.64	3.07	2.77	36210-0100FD
1	Receptacle, Wiremount	3M6459-ND	3.74	3.15	2.85	36210-0100PL
2	Plug, SMT	3M6456-ND	6.78	5.71	5.16	36110-1110PL
3	Plug, Right Angle, Thru-Hole	3M6457-ND	5.62	4.73	4.27	36110-2220PE
4	Plug, Solder	3M6458-ND	5.49	4.62	4.18	36110-3000FD
Accessories						
—	Backshell for Receptacle	3M6454-ND	7.38	6.22	5.61	36310-3200-008
—	Backshell for Plug	3M6455-ND	8.22	6.92	6.25	36310-F200-008

SATA Connectors

Dimensions in mm

Fig. 1

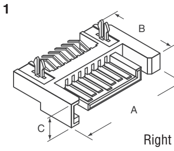

Right Angle Shown

Fig. 2

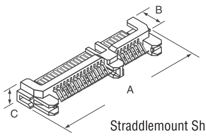

Straddlemount Shown

Fig. 3

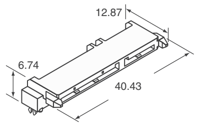

Fig. 4

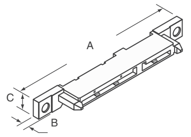

Fig. 5

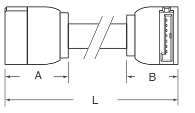

Straight to Right Angle Shown

Fig. 6

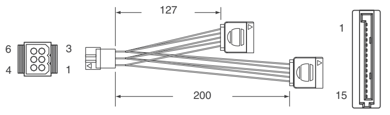

Fig.	Description	Dimensions (mm) A	B	C	No. of Pos.	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
SATA Plugs										
1	R/A, SMT Gold Flash	17.46	11.50	4.00	7	3M5561-ND	.48	.36	.26	5607-4200-SH
	Vertical, PCB Gold Flash	16.78	8.40	5.70	7	3M5562-ND	.54	.41	.29	5607-5102-SH
2	Straddlemount 30μ"	45.77	7.25	5.73	22	3M5555-ND	2.04	1.53	1.09	5622-6309-ML
	R/A, Thru-Hole 30μ"	42.76	5.60	11.00	22	3M5556-ND	2.16	1.62	1.16	5622-4100-ML
SATA Receptacles										
3	R/A, SMT 30μ"	—	—	—	22	3M5560-ND	2.34	1.76	1.25	5622-1200-ML
4	Vertical, SMT 30μ"	54.50	5.50	2.45	22	3M5557-ND§	2.25	1.69	1.20	5622-2222-ML
	Vertical, PCB 30μ"	42.73	5.00	14.15	22	3M5558-ND	2.25	1.69	1.20	5622-2103-ML
	Vertical, Pressfit, 30μ"	42.73	10.00	14.15	22	3M5559-ND	2.34	1.76	1.25	5622-2603-ML
SATA Signal Cables										
5	R/A to R/A, L= 1M	12.5	12.5	—	7	3M5564-ND	2.85	2.14	1.52	5602-1102
	R/A to R/A, L= 0.5M	12.5	12.5	—	7	3M5565-ND	2.55	1.92	1.36	5602-1101
	STR to R/A, L= 1M	15.5	12.5	—	7	3M5566-ND	2.85	2.14	1.52	5602-2102
	STR to R/A, L= 0.5M	15.5	12.5	—	7	3M5567-ND	2.55	1.92	1.36	5602-2101
	STR to STR, L= 1M	15.5	15.5	—	7	3M5568-ND	2.85	2.14	1.52	5602-2202
	STR to STR, L= 0.5M	15.5	15.5	—	7	3M5743-ND	2.55	1.92	1.36	5602-22-0000-500
Power Cable										
6	"Y" Configuration	—	—	—	15	3M5563-ND	4.32	3.24	2.31	5601-22-127-200

§ With mounting flange

SDR Connectors and Cable Assemblies

Dimensions in Inches (mm)

Fig. 1

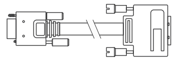

Fig. 2

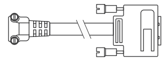

Fig. 3

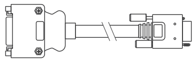

Fig. 4

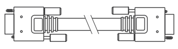

Fig. 5

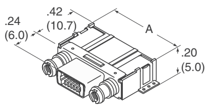

Fig. 6

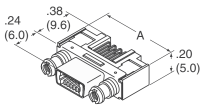

Fig. 7

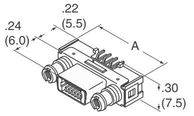

Fig.	Description	No. of Pos.	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
1	MDR Recept. - SDR Plug	26	—	MCA100-5-ND	219.95	192.46	171.84	1MF26-L560-00C-500
2	R/A SDR Plug - MDR Plug	26	—	MCA101-2-ND	192.00	168.00	150.00	1MF26-L576-00C-200
	R/A MDR Plug - SDR Plug	26	—	MCA102-5-ND	249.36	218.19	194.82	1MF26-L586-00C-500
3	MDR Recept. - SDR Plug	26	—	MCA103-2-ND	197.60	172.90	154.38	1MG26-LFW0-00C-200
4	SDR Plug - SDR Plug	26	—	MCA104-5-ND	324.37	283.83	253.42	1SF26-L120-00C-500
	R/A SDR Plug - SDR Plug	26	—	MCA105-2-ND	297.25	260.10	232.23	1SF26-L136-00C-200
5	Header – SMT, R/A	14	.79 (20)	MSDS14-ND	9.51	8.00	7.23	12214-8250-00FR
		26	.98 (24.8)	MSDS26-ND	10.50	8.84	7.98	12226-8250-00FR
6	Header – Thru-Hole, R/A	14	.79 (20)	MSDR14-ND	7.92	6.67	6.02	12214-5150-00FR
		26	.98 (24.8)	MSDR26-ND	8.92	7.51	6.78	12226-5150-00FR
		50	1.35 (34.4)	MSDR50-ND	11.88	10.00	9.03	12250-5150-00FR
7	Header – Thru-Hole, Vert.	14	.79 (20)	MSDV14-ND	7.53	6.34	5.72	12214-1150-00FR
		26	.98 (24.8)	MSDV26-ND	8.53	7.18	6.48	12226-1150-00FR

molex® Picoflex™ PF-50

PHYSICAL: • Pitch/Center Spacing: .050 Inch (1.27mm) • Cable Pitch: .050 Inch (1.27mm) • Wire Size (AWG): 26, 28 • Wire Type: Ribbon Cable • Termination Method: Insulation Displacement (IDT) • Housing Material: Receptacle: Polyester; Header: Nylon Glass-Filled • Flammability Rating: UL 94V-0 • Contact: Receptacle: Phosphor Bronze (CuSn); Header: Brass • Minimum Durability (mating cycles): 30 cycles-Tin (Sn), 100 cycles-Gold (Au) • UL File: E29179

ELECTRICAL: • Maximum Current: 1.2A • Maximum Voltage Rating: 250V

ENVIRONMENTAL: • Temperature Range: -40°C ~ 105°C

Fig. 1

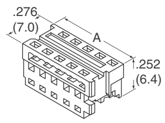

Fig. 2

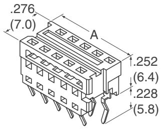

Fig. 3

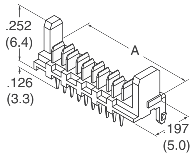

Fig. 4

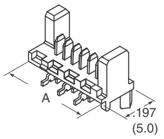

Fig.	Contact Finish	No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Receptacles								
1	Tin	4	0.299 (7.59)	WM19220-ND	.58	.54	.43	90327-0304
		6	0.399 (10.13)	WM19221-ND	.82	.75	.60	90327-0306
		8	0.499 (12.67)	WM19222-ND	.97	.90	.72	90327-0308
		10	0.599 (15.21)	WM19223-ND	1.17	1.07	.86	90327-0310
		12	0.699 (17.75)	WM19224-ND	1.31	1.21	.97	90327-0312
		14	0.799 (20.29)	WM19225-ND	1.43	1.31	1.05	90327-0314
		16	0.899 (22.83)	WM19226-ND	1.56	1.43	1.15	90327-0316
		18	0.999 (25.37)	WM19227-ND	1.66	1.53	1.22	90327-0318
		20	1.099 (27.91)	WM19228-ND	1.85	1.70	1.36	90327-0320
		26	1.399 (35.53)	WM19229-ND	2.28	2.09	1.67	90327-0326
	Gold	4	0.299 (7.59)	WM19230-ND	.76	.70	.56	90327-3304
		6	0.399 (10.13)	WM19231-ND	1.06	.98	.78	90327-3306
		8	0.499 (12.67)	WM19232-ND	1.26	1.16	.93	90327-3308
		10	0.599 (15.21)	WM19233-ND	1.52	1.39	1.12	90327-3310
		12	0.699 (17.75)	WM19234-ND	1.71	1.57	1.26	90327-3312
		14	0.799 (20.29)	WM19235-ND	1.86	1.71	1.37	90327-3314
		16	0.899 (22.83)	WM19236-ND	2.02	1.86	1.49	90327-3316
		18	0.999 (25.37)	WM19237-ND	2.16	1.99	1.59	90327-3318
		20	1.099 (27.91)	WM19238-ND	2.40	2.21	1.77	90327-3320
		26	1.399 (35.53)	WM19239-ND	2.96	2.72	2.17	90327-3326
2	Tin	4	0.299 (7.59)	WM19240-ND	.58	.54	.43	90584-1304
		6	0.399 (10.13)	WM19241-ND	.82	.75	.60	90584-1306
		8	0.499 (12.67)	WM19242-ND	.97	.90	.72	90584-1308
		10	0.599 (15.21)	WM19243-ND	1.17	1.07	.86	90584-1310
		12	0.699 (17.75)	WM19244-ND	1.31	1.21	.97	90584-1312
		14	0.799 (20.29)	WM19245-ND	1.43	1.31	1.05	90584-1314
		16	0.899 (22.83)	WM19246-ND	1.56	1.43	1.15	90584-1316
		18	0.999 (25.37)	WM19247-ND	1.66	1.53	1.22	90584-1318
		20	1.099 (27.91)	WM19248-ND	1.85	1.70	1.36	90584-1320
		26	1.399 (35.53)	WM19249-ND	2.28	2.09	1.67	90584-1326
Headers — Through Hole								
3	Tin	4	0.367 (9.32)	WM19210-ND	.65	.60	.48	90325-9004
		6	0.467 (11.86)	WM19211-ND	.70	.65	.52	90325-9006
		8	0.567 (14.40)	WM19212-ND	.83	.76	.61	90325-9008
		10	0.667 (16.94)	WM19213-ND	.95	.87	.70	90325-9010
		12	0.767 (19.48)	WM19214-ND	1.05	.97	.78	90325-9012
		14	0.867 (22.02)	WM19215-ND	1.13	1.04	.83	90325-9014
		16	0.967 (24.56)	WM19216-ND	1.44	1.33	1.06	90325-9016
		18	1.067 (27.10)	WM19217-ND	2.27	2.09	1.67	90325-9018
		20	1.167 (29.64)	WM19218-ND	1.75	1.60	1.28	90325-9020
		26	1.467 (37.26)	WM19219-ND	2.50	2.30	1.84	90325-9026
	Gold	4	0.367 (9.32)	WM19200-ND	1.12	1.04	.83	90325-7004
		6	0.467 (11.86)	WM19201-ND	1.54	1.42	1.14	90325-7006
		8	0.567 (14.40)	WM19202-ND	1.92	1.76	1.41	90325-7008
		10	0.667 (16.94)	WM19203-ND	2.38	2.19	1.75	90325-7010
		12	0.767 (19.48)	WM19204-ND	2.87	2.63	2.11	90325-7012
		14	0.867 (22.02)	WM19205-ND	3.20	2.94	2.35	90325-7014
		16	0.967 (24.56)	WM19206-ND	3.57	3.28	2.62	90325-7016
		18	1.067 (27.10)	WM19207-ND	4.01	3.68	2.95	90325-7018
		20	1.167 (29.64)	WM19208-ND	3.30	3.03	2.42	90325-7020
		26	1.467 (37.26)	WM19209-ND	5.34	4.90	3.92	90325-7026
Headers — SMD								
4	Tin	4	0.349 (8.86)	WM19274-ND ***NEW!***	.76	.70	.56	90814-0804
		6	0.449 (11.40)	WM19275-ND ***NEW!***	.86	.79	.64	90814-0806
		8	0.549 (13.94)	WM19276-ND ***NEW!***	.93	.86	.69	90814-0808
		10	0.649 (16.48)	WM19277-ND ***NEW!***	.96	.88	.71	90814-0810
		12	0.749 (19.02)	WM19278-ND ***NEW!***	1.02	.94	.76	90814-0812
		14	0.849 (21.56)	WM19279-ND ***NEW!***	1.18	1.08	.87	90814-0814
		14	0.849 (21.56)	WM19255-ND	2.14	1.97	1.58	90814-0014
		16	0.949 (24.10)	WM19280-ND ***NEW!***	1.32	1.21	.97	90814-0816
		18	1.049 (26.64)	WM19281-ND ***NEW!***	1.46	1.34	1.08	90814-0818
		18	1.049 (26.64)	WM19257-ND	2.52	2.31	1.85	90814-0018
		20	1.149 (29.18)	WM19282-ND ***NEW!***	1.62	1.49	1.20	90814-0820
4	Tin	20	1.149 (29.18)	WM19258-ND	2.75	2.53	2.02	90814-0020
		26	1.449 (36.80)	WM19283-ND ***NEW!***	1.78	1.64	1.31	90814-0826
		26	1.449 (36.80)	WM19259-ND	3.47	3.19	2.55	90814-0026
	Gold	4	0.349 (8.86)	WM19284-ND ***NEW!***	1.06	.98	.78	90814-3804
		6	0.449 (11.40)	WM19285-ND ***NEW!***	1.05	.96	.77	90814-3806
		6	0.449 (11.40)	WM19261-ND	1.13	1.04	.84	90814-3006
		8	0.549 (13.94)	WM19286-ND ***NEW!***	1.42	1.31	1.05	90814-3808
		10	0.649 (16.48)	WM19287-ND ***NEW!***	1.60	1.47	1.17	90814-3810
		10	0.649 (16.48)	WM19263-ND	2.14	1.97	1.58	90814-3010
		12	0.749 (19.02)	WM19288-ND ***NEW!***	1.92	1.76	1.41	90814-3812
		14	0.849 (21.56)	WM19289-ND ***NEW!***	2.17	1.99	1.60	90814-3814
		16	0.949 (24.10)	WM19290-ND ***NEW!***	2.03	1.87	1.49	90814-3816
		18	1.049 (26.64)	WM19291-ND ***NEW!***	2.27	2.09	1.67	90814-3818
		18	1.049 (26.64)	WM19267-ND	3.21	2.95	2.36	90814-3018
		20	1.149 (29.18)	WM19292-ND ***NEW!***	2.52	2.32	1.85	90814-3820
		20	1.149 (29.18)	WM19268-ND	3.52	3.24	2.59	90814-3020
		26	1.449 (36.80)	WM19293-ND ***NEW!***	3.22	2.96	2.37	90814-3826
Tools								
Hand Tool for Picoflex				WM19270-ND	1144.80	—	—	69008-1090
Extraction Tool for Picoflex				WM9991-ND	10.15	—	—	69008-1070

ASSMANN Flat Cable

Features:

- Operating Voltage: 300Vrms
- Test Voltage: 2000Vrms
- Current Capacity: 1A
- Insulation Resistance: >20GΩ/m
- Capacity: 45pF/m
- Conductor Resistance: >230Ω/km
- Impedance: 104Ω
- Temperature Range: -30°C ~ 105°C
- Color: Gray, red coded
- Multi-Color Sequence: Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black

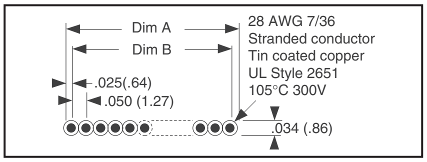

Cond.	Dimensions - Inch (mm) A	B
9	0.45 (11.43)	.400 (10.16)
10	0.50 (12.70)	.450 (11.43)
14	0.70 (17.78)	.650 (16.51)
15	0.75 (19.05)	.700 (17.78)
16	0.80 (20.32)	.750 (19.05)
20	1.00 (25.40)	.950 (24.13)
24	1.20 (30.48)	1.150 (29.21)
25	1.25 (31.75)	1.200 (30.48)

Cond.	Dimensions - Inch (mm) A	B
26	1.30 (33.02)	1.250 (31.75)
30	1.50 (38.10)	1.450 (36.83)
34	1.70 (43.18)	1.650 (41.91)
37	1.85 (46.99)	1.800 (45.72)
40	2.00 (50.80)	1.950 (49.53)
50	2.50 (63.50)	2.450 (62.23)
60	3.00 (76.20)	2.950 (74.93)
64	3.20 (81.28)	3.150 (80.01)

Multi-Color Ribbon Cable◊

With Standard 10 Color Repeat Sequence

No. of Contacts	Digi-Key Part No.	(Note: "X" in Digi-Key Part No. Represents No. of Feet) Pricing 5	10	25	50	100
9	AE09M-X-ND	4.47	7.98	19.26	37.15	68.80
10	AE10M-X-ND	4.20	7.50	18.11	34.93	64.68
14	AE14M-X-ND	6.31	11.25	27.17	52.39	97.03
15	AE15M-X-ND	6.31	11.25	27.17	52.39	97.03
16	AE16M-X-ND	6.73	12.01	28.98	55.89	103.50
20	AE20M-X-ND	8.41	15.01	36.22	69.86	129.37
24	AE24M-X-ND	10.51	18.76	45.28	87.33	161.72
25	AE25M-X-ND	10.51	18.76	45.28	87.33	161.72
26	AE26M-X-ND	10.93	19.51	47.09	90.82	168.18
30	AE30M-X-ND	14.30	25.51	61.58	118.76	219.93
34	AE34M-X-ND	14.30	25.51	61.58	118.76	219.93
37	AE37M-X-ND	16.82	30.01	72.45	139.72	258.74
40	AE40M-X-ND	16.82	30.01	72.45	139.72	258.74
50	AE50M-X-ND	21.02	37.52	90.56	174.65	323.43
60	AE60M-X-ND	25.23	45.02	108.67	209.58	388.11
64	AE64M-X-ND	26.91	48.02	115.92	223.55	413.98

◊ Cable available in 300 foot reel. Please call for pricing.

Gray Ribbon Cable◊

With Single Edge Red Strip For Pin One Orientation

No. of Contacts	Digi-Key Part No.	(Note: "X" in Digi-Key Part No. Represents No. of Feet) Pricing 5	10	25	50	100
9	AE09G-X-ND	1.19	2.12	5.12	9.87	18.28
10	AE10G-X-ND	1.32	2.36	5.70	10.99	20.36
14	AE14G-X-ND	1.86	3.31	7.99	15.41	28.54
15	AE15G-X-ND	1.98	3.53	8.53	16.45	30.47
16	AE16G-X-ND	2.12	3.78	9.11	17.58	32.55
20	AE20G-X-ND	3.00	5.35	12.92	24.91	46.13
24	AE24G-X-ND	2.82	5.03	12.15	23.44	43.40
25	AE25G-X-ND	3.68	6.56	15.84	30.54	56.56
26	AE26G-X-ND	3.70	6.60	15.93	30.73	56.91
30	AE30G-X-ND	3.47	6.19	15.47	28.80	53.33
34	AE34G-X-ND	4.00	7.13	17.21	33.19	61.47
37	AE37G-X-ND	4.90	8.74	21.11	40.70	75.38
40	AE40G-X-ND	5.59	9.97	24.07	46.42	85.96
50	AE50G-X-ND	5.88	10.49	25.31	48.82	90.40
60	AE60G-X-ND	7.95	14.20	34.27	66.09	122.38
64	AE64G-X-ND	7.52	13.42	32.40	62.48	115.71

◊ Cable available in 300 foot reel. Please call for pricing.

Quickie™ Headers and Connectors

Eject Latch Headers

Specifications: • Contact Plating: 30µ" (0.76 µm) Gold • Current Rating: 3 Amp Continuous • Temperature Range: -65°C ~ 125°C • Housing Material: Glass Filled, Thermoplastic: UL94V-0, Color: Gray • Pin Material: Phosphor Bronze • 20N minimum Latch Retention Force at First Extraction

Vertical

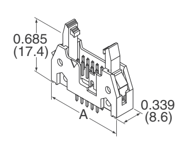

Right Angle

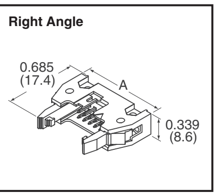

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	FCI Part No.
Vertical Header with Standard Latch					
6	1.060 (26.92)	609-2843-ND	1.37	18.93	71918-106LF
10	1.260 (32.00)	609-1753-ND	1.53	21.36	71918-110LF
16	1.560 (39.62)	609-1754-ND	1.77	24.64	71918-116LF
20	1.760 (44.70)	609-1755-ND	1.91	27.28	71918-120LF
26	2.060 (52.32)	609-1756-ND	2.14	30.64	71918-126LF
34	2.460 (62.48)	609-1757-ND	2.40	36.03	71918-134LF
40	2.760 (70.10)	609-1758-ND	3.12	48.15	71918-140LF
50	3.260 (82.80)	609-1759-ND	3.15	48.30	71918-150LF
Right Angle Header with Standard Latch					
6	1.060 (26.92)	609-2844-ND	1.37	18.93	71922-106LF
10	1.260 (32.00)	609-1760-ND	1.53	21.36	71922-110LF
16	1.560 (39.62)	609-1761-ND	2.37	35.62	71922-116LF
20	1.760 (44.70)	609-1762-ND	1.96	27.96	71922-120LF
26	2.060 (52.32)	609-1763-ND	2.14	30.64	71922-126LF
34	2.460 (62.48)	609-1764-ND	2.34	35.15	71922-134LF
40	2.760 (70.10)	609-1765-ND	2.66	39.52	71922-140LF
50	3.260 (82.80)	609-1766-ND	3.15	48.30	71922-150LF

Shrouded Headers

Slimline Shrouded

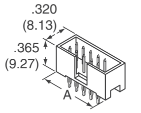

Latching Shrouded

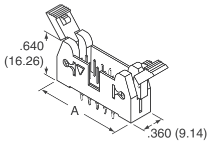

The spring-tension, "Eye-of-Needle" compliant section reduces insertion force during connector installation. The press-fit headers are offered in low-profile, slimline versions or versions equipped with end latches. These dual-row headers utilize 0.64mm (0.025") square pins spaced on 2.54mm (0.100") x 2.54mm (0.100") pitch.

No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	FCI Part No.
Slimline Shrouded Headers					
10	.78 (19.81)	609-3084-ND	3.25	50.36	10073456-001LF
20	1.28 (35.51)	609-3085-ND	3.99	62.35	10073456-019LF
24	1.48 (37.59)	609-3086-ND	4.34	67.89	10073456-025LF
30	1.78 (45.21)	609-3087-ND	5.16	82.08	10073456-038LF
40	2.28 (57.91)	609-3088-ND	5.60	93.21	10073456-049LF
Latching Shrouded Headers					
10	1.26 (32.00)	609-3089-ND	3.76	60.42	10080054-007LF
14	1.46 (37.08)	609-3090-ND	4.05	63.21	10080054-043LF
16	1.56 (39.62)	609-3091-ND	3.97	61.97	10080054-061LF
20	1.76 (44.70)	609-3092-ND	6.11	95.42	10080054-079LF
24	1.96 (49.78)	609-3095-ND	4.50	71.66	10080054-524LF
26	2.06 (52.32)	609-3093-ND	5.27	87.59	10080054-115LF
40	2.76 (70.10)	609-3094-ND	5.78	96.08	10080054-169LF

Low Profile Headers

Specifications: • Contact Plating: 30µ" (0.76 µm) Gold • Current Rating: 3 Amps Continuous • Temperature Range: -65°C ~ 125°C • Housing Material: Glass Filled, Thermoplastic: UL94V-0, Color: Blue • Pin Material: Phosphor Bronze • SMT/PIP Compatible with wave, vapor-phase and IR reflow soldering processes • PIP: Pin in Paste

Vertical

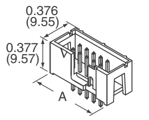

Vertical PiP

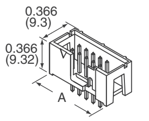

Right Angle

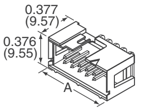

Right Angle PiP

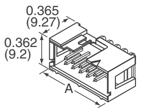

Surface Mount

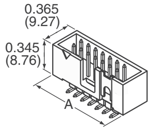

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	FCI Part No.
Vertical Headers					
6	0.584 (14.83)	609-2845-ND	.88	11.21	75869-131LF
10	0.784 (19.91)	609-1774-ND	1.68	23.34	75869-101LF
16	1.084 (27.53)	609-1775-ND	1.66	22.38	75869-103LF
20	1.284 (32.61)	609-1776-ND	1.50	20.99	75869-104LF
26	1.584 (40.23)	609-1777-ND	1.81	25.88	75869-105LF
34	1.984 (50.39)	609-1778-ND	2.33	34.48	75869-106LF
40	2.284 (58.01)	609-1779-ND	2.63	39.49	75869-107LF
50	2.784 (70.71)	609-1780-ND	3.22	49.30	75869-108LF
Vertical PiP Headers					
10	0.791 (20.10)	609-3014-ND	1.72	23.20	10056844-110LF
14	0.991 (25.18)	609-3015-ND	1.62	21.88	10056844-114LF
16	1.091 (27.72)	609-3016-ND	2.00	27.84	10056844-116LF
20	1.291 (32.87)	609-3017-ND	2.21	32.45	10056844-120LF
26	1.591 (40.42)	609-3018-ND	2.68	40.15	10056844-126LF
30	1.791 (45.50)	609-3019-ND	3.12	46.28	10056844-130LF
34	1.991 (50.54)	609-3020-ND	3.45	52.90	10056844-134LF
40	2.291 (58.20)	609-3021-ND	3.48	53.37	10056844-140LF
Right Angle Headers					
4	0.483 (12.29)	609-3077-ND	1.01	13.22	75867-130LF
6	0.584 (14.83)	609-2846-ND	.93	11.93	75867-131LF
8	0.684 (17.37)	609-3078-ND	.98	12.77	75867-132LF
10	0.784 (19.91)	609-1767-ND	1.15	15.80	75867-101LF
14	0.984 (24.99)	609-3079-ND	1.27	17.10	75867-102LF
16	1.084 (27.53)	609-1768-ND	1.75	24.31	75867-103LF
20	1.284 (32.61)	609-1769-ND	1.55	20.96	75867-104LF
26	1.584 (40.23)	609-1770-ND	1.93	27.56	75867-105LF
34	1.984 (50.39)	609-1771-ND	2.75	40.84	75867-106LF
40	2.284 (58.01)	609-1772-ND	2.55	38.31	75867-107LF
50	2.784 (70.71)	609-1773-ND	3.65	56.58	75867-108LF
60	3.283 (83.41)	609-3080-ND	4.29	66.56	75867-109LF
64	3.484 (88.49)	609-3081-ND	3.70	57.44	75867-110LF

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	FCI Part No.
Right Angle PiP Headers					
10	0.791 (20.10)	609-3022-ND	1.92	26.68	10056845-110LF
14	0.991 (25.18)	609-3023-ND	2.11	30.16	10056845-114LF
16	1.091 (27.72)	609-3024-ND	2.29	33.64	10056845-116LF
20	1.291 (32.87)	609-3025-ND	2.52	36.19	10056845-120LF
26	1.591 (40.42)	609-3026-ND	2.87	42.98	10056845-126LF
30	1.791 (45.50)	609-3027-ND	3.24	49.59	10056845-130LF
34	1.991 (50.54)	609-3028-ND	3.52	54.00	10056845-134LF
40	2.291 (58.20)	609-3029-ND	4.04	62.64	10056845-140LF
SMT Headers					
10	0.790 (20.07)	609-3075-ND	2.36	35.44	72454-010LF
14	0.99 (25.2)	609-3011-ND	2.35	35.21	72454-014LF
16	1.090 (27.69)	609-3012-ND	2.13	30.58	72454-016LF
20	1.290 (32.77)	609-3076-ND	2.42	36.23	72454-020LF
40	2.290 (58.17)	609-3013-ND‡	5.50	93.50	72454-040LF

‡ Contact Plating: 100µ" (3.05µ) Tin

.100" x .100" (2.54 mm x 2.54 mm) Socket Connectors

Use .050" (1.27 mm) Pitch Ribbon Cable

Center Key

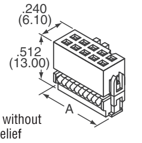

Shown without strain relief

PC Board Mount

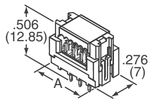

Specifications: • Contact Plating: 30µ" (0.76 µm) Gold • Current Rating: 1 Amp Continuous • Temperature Range: -65°C ~ 125°C • Plastic Material: Glass Filled High Temperature, Thermoplastic: UL94V-0, Color: Gray • Pin Material: Phosphor Bronze

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	FCI Part No.
Center Key without Strain Relief					
6	0.476 (12.09)	609-2842-ND	1.05	14.45	71600-106LF
10	0.672 (17.07)	609-1746-ND	1.21	17.13	71600-110LF
16	0.976 (24.79)	609-1747-ND	1.80	24.98	71600-116LF
20	1.172 (29.78)	609-1748-ND	1.41	19.52	71600-120LF
26	1.476 (37.49)	609-1749-ND	1.52	20.49	71600-126LF
34	1.876 (47.65)	609-1750-ND	2.60	39.02	71600-134LF
40	2.176 (55.27)	609-1751-ND	2.32	34.87	71600-140LF
50	2.676 (67.97)	609-1752-ND	3.02	46.33	71600-150LF
Center Key with Strain Relief					
6	0.476 (12.09)	609-2841-ND	1.02	13.48	71600-006LF
10	0.672 (17.07)	609-1739-ND	1.32	17.74	71600-010LF
16	0.976 (24.79)	609-1740-ND	1.64	22.22	71600-016LF
20	1.172 (29.78)	609-1741-ND	1.35	18.19	71600-020LF
26	1.476 (37.49)	609-1742-ND	2.05	30.16	71600-026LF
34	1.876 (47.65)	609-1743-ND	2.35	34.72	71600-034LF
40	2.176 (55.27)	609-1744-ND	1.92	27.46	71600-040LF
50	2.676 (67.97)	609-1745-ND	2.71	40.17	71600-050LF
Center Key with Latching Strain Relief					
6	0.476 (12.09)	609-3067-ND	1.07	14.70	71600-606LF
10	0.672 (17.07)	609-3068-ND	1.05	14.46	71600-610LF
16	0.976 (24.79)	609-3069-ND	1.38	19.03	71600-616LF
20	1.172 (29.78)	609-3070-ND	1.58	21.29	71600-620LF
26	1.476 (37.49)	609-3071-ND	1.71	23.77	71600-626LF
34	1.876 (47.65)	609-3072-ND	1.96	28.80	71600-634LF
40	2.176 (55.27)	609-3073-ND	2.15	31.74	71600-640LF
50	2.676 (67.97)	609-3074-ND	2.60	38.66	71600-650LF
PC Board Mount					
6	0.475 (12.08)	609-3082-ND	.93	11.94	69830-006LF
8	.0575 (14.62)	609-3083-ND	1.02	14.00	69830-008LF
Crimp Tool					
Hand Press		609-1781-ND	3438.24/1		107484-002

.100" (2.54mm) Round Conductor Flat Cable in Precut Lengths

26 AWG (7 x 34) Stranded, Topcoat

Features: • Gray PVC insulation • UL Temperature Rating: -20°C ~ 105°C • UL Voltage: 300V maximum • UL Flammability Rating: VW-1 • UL Style No. 2651 • UL Recognized (File #E61522) • CSA Certification (File #LL61126)

No. of Pos.	Digi-Key Part No.	Pricing 1	Pricing 10	Molex Part No.
3	WM03-02A-ND	.44	3.88	25001-0302
	WM03-04A-ND	.53	4.69	25001-0304
	WM03-06A-ND	.63	5.53	25001-0306
4	WM04-02A-ND	.60	5.29	25001-0402
	WM04-04A-ND	.74	6.56	25001-0404
	WM04-06A-ND	.92	8.15	25001-0406
5	WM05-02A-ND	.62	5.47	25001-0502
	WM05-04A-ND	.78	6.87	25001-0504
	WM05-06A-ND	.98	8.63	25001-0506
6	WM06-02A-ND	.64	5.65	25001-0602
	WM06-04A-ND	.81	7.17	25001-0604
	WM06-06A-ND	.81	7.17	25001-0606

No. of Pos.	Digi-Key Part No.	Pricing 1	Pricing 10	Molex Part No.
7	WM07-02A-ND	.65	5.77	25001-0702
	WM07-04A-ND	.85	7.54	25001-0704
	WM07-06A-ND	1.09	9.60	25001-0706
8	WM08-02A-ND	.68	5.96	25001-0802
	WM08-04A-ND	.90	7.90	25001-0804
	WM08-06A-ND	1.15	10.15	25001-0806
9	WM09-02A-ND	.70	6.14	25001-0902
	WM09-04A-ND	.93	8.20	25001-0904
	WM09-06A-ND	1.21	10.64	25001-0906
10	WM10-02A-ND	.72	6.32	25001-1002
	WM10-04A-ND	.98	8.63	25001-1004
	WM10-06A-ND	1.27	11.24	25001-1006

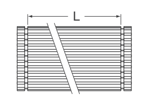

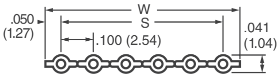

Digi-Key Part No.	Dim. L Inch (mm)
XXXX-02A-ND	2 (50.80)
XXXX-04A-ND	4 (101.6)
XXXX-06A-ND	6 (152.4)

No. of Pos.	Dim. S Inch (mm)	Dim. W (Ref.) Inch (mm)
3	.200 (5.08)	.300 (7.62)
4	.300 (7.62)	.400 (10.16)
5	.400 (10.16)	.500 (12.7)
6	.500 (12.70)	.600 (15.24)
7	.600 (15.24)	.700 (17.78)
8	.700 (17.78)	.800 (20.32)
9	.800 (20.32)	.900 (22.86)
10	.900 (22.86)	1.000 (25.40)

ASSMANN Computer Cable Assemblies

Fig. 1 — Parallel Extension

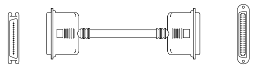

Fig. 2 — Parallel Printer (Snap Hood)

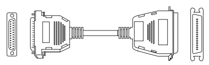

Fig. 3 — Parallel Printer (Molded Hood)

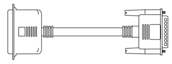

Fig. 4 — Right Angle Parallel Printer

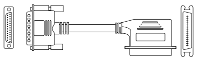

Fig. 5 — Serial Printer (Snap Hoods)

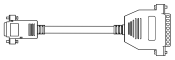

Fig. 6 — IEEE 1284 Bi-Directional Printer

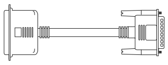

Fig. 7 — IEEE 1284 Bi-Directional Connection

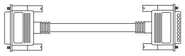

Fig. 8 — IEEE 1284 Bi-Directional Extension

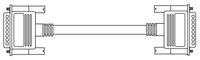

Fig. 9 — Connection Cable, 25-Pin Interface Serial/Parallel

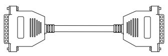

Fig. 10 — 25-Pin Interface Extension

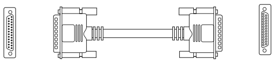

Fig. 11 — 9-Pin Interface Extension

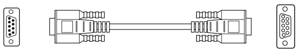

Fig. 12 — VGA Monitor Extension

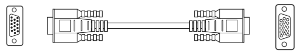

Fig. 13 — Premium VGA Monitor Extension

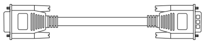

Fig. 14— PC/XT/AT Keyboard Extension

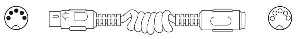

Fig. 15 — PS/2 Keyboard Extension - Spiral

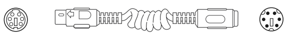

Fig. 16 — PS/2 Keyboard Extension – Straight

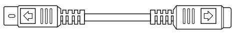

Fig. 17 — PS/2 Keyboard Cable – Straight

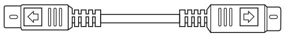

Fig. 18 — IBM Modem/Adapter

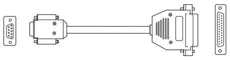

AE1382-ND & AE9877-ND : 1-8, 2-3, 3-2, 4-20, 5-7, 6-6, 7-4, 8-5, 9-22, shell-shell

AE9878-ND & AE1383-ND: 1-8, 2-2, 3-3, 4-6, 5-7, 6-20, 7-5, 8-4, 9-22, shell-shell

Fig. 19 — Null Modem Cross-Over Cable

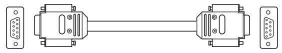

AE9879-ND & AE9880-ND: 1-4, 2-3, 3-2, 4-1, 5-5, 7-8, 8-7, 9-9, shell-shell

Fig. 20 — Null Modem Serial Cable

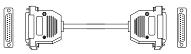

AE1035-ND & AE1384-ND: 1-1; 2-3; 3-2; 4-5; 5-4; 7-7; 8-20; 15,17-8, 24-15.

AE1385-ND: 2-15, 3-13, 4-12, 5-10, 6-11, 10-5, 11-6, 12-4, 13-3, 15-2, 25-25.

AE1037-ND & AE1386-ND: 1-1, 2-3, 3-2, 4-5, 5-4, (6+8)-20, 7-7, 20-(6+8).

Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
Molded Extension for 36-Pin Centronics Interfaces								
1	6.56 (2)	36	2x Centronics 36-Pin Male to Male	AE1362-ND◆	14.92	13.11	11.76	AK138-2-R
	9.84 (3)			AE1363-ND◆	20.36	17.90	16.05	AK426-3-R
	6.56 (2)	36	2x Centronics 36-Pin Male to Female	AE1004-ND	11.55	10.15	9.10	AK140-2
	6.56 (2)			AE1364-ND◆	15.68	13.78	12.35	AK140-2-R
	9.84 (3)			AE1365-ND◆	17.99	15.81	14.17	AK430-3-R
Parallel Printer Cable, IBM PC and Compatibles								
2	5.90 (1.8)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Snap-Hoods	AE1366-ND◆	9.77	8.59	7.70	AK101-1.8-R
	9.84 (3)			AE1007-ND	7.99	7.02	6.30	AK102-3
	9.84 (3)			AE1367-ND◆	12.41	10.91	9.78	AK102-3-R
	22.96 (7)			AE9853-ND◆	16.17	14.21	12.74	AK104-7-R
3	6.56 (2)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Molded Hoods	AE9858-ND◆	8.35	7.34	6.58	AK108-2-R
	9.84 (3)			AE1368-ND◆	9.14	8.04	7.21	AK127-3-R
	22.96 (7)			AE9859-ND◆	14.52	12.76	11.44	AK159-7-R
4	6.56 (2)	25	D-Sub 25-Pin Male to Right Angle Centronics 36-Pin Male	AE9860-ND◆	10.92	9.60	8.61	AK525-2-R
	6.56 (2)	25	D-Sub 25-Pin Male to Left Angle Centronics 36-Pin Male	AE1369-ND◆	9.74	8.56	7.67	AK525-L2-R
Serial Printer Cable, IBM PC and Compatibles — RoHS Compliant								
5	9.84 (3)	8	D-Sub 9-Pin Female to D-Sub 25-Pin Male, Snap-Hoods	AE1370-ND	7.46	6.56	5.88	AK150-3-R
IEEE 1284 Bi-Directional Cable - Molded Hoods — RoHS Compliant								
6	5.90 (1.8)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Printer	AE1371-ND	16.14	14.19	12.72	AK711-1.8-R
	9.84 (3)			AE1372-ND	22.61	19.87	17.81	AK712-3-R
	16.40 (5)			AE1373-ND	31.61	27.79	24.91	AK713-5-R
7	5.90 (1.8)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Female, Connection	AE9861-ND	17.16	15.08	13.52	AK733-1.8-R
	9.84 (3)			AE1374-ND	24.16	21.23	19.04	AK734-3-R
	16.40 (5)			AE1375-ND	31.61	27.79	24.91	AK735-5-R
8	5.90 (1.8)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male, Extension	AE9862-ND	18.32	16.10	14.43	AK736-1.8-R
	9.84 (3)			AE1376-ND	24.16	21.23	19.04	AK737-3-R
	16.40 (5)			AE1377-ND	31.61	27.79	24.91	AK738-5-R
Snap-Hood Connection for 25-Pin Interface — RoHS Compliant								
9	6.56 (2)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male, Snap-Hoods	AE9863-ND	7.59	6.67	5.98	AK401-2-R
Molded Extension for 25-Pin Interfaces								
10	6.56 (2)	25	2x D-Sub 25-Pin Male to Male	AE1010-ND	6.93	6.09	5.46	AK137-2
	6.56 (2)			AE1378-ND◆	10.00	8.79	7.88	AK137-2-R
	9.84 (3)			AE9864-ND◆	13.40	11.78	10.56	AK162-3-R
	6.56 (2)	25	2x D-Sub 25-Pin Male to Female	AE9865-ND◆	11.45	10.07	9.03	AK135-2-R
	9.84 (3)			AE9866-ND◆	11.02	9.69	8.69	AK166-3-R
	6.56 (2)	25	2x D-Sub 25-Pin Female to Female	AE9867-ND◆	9.64	8.47	7.60	AK133-2-R
	9.84 (3)			AE9868-ND◆	12.94	11.37	10.20	AK170-3-R
Molded Extension for 9-Pin Interfaces — RoHS Compliant								
11	6.56 (2)	9	2x D-Sub 9-Pin Male to Male	AE9869-ND	7.36	6.47	5.80	AK129-2-R
	9.84 (3)			AE9870-ND	8.15	7.17	6.43	AK174-3-R

◆ *RoHS Compliant*

(Continued)

ASSMANN Computer Cable Assemblies *(Cont.)*

Fig. 21 — PS/2 Keyboard Adapter

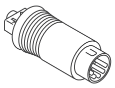

Fig. 22 — D-Sub Adapter

Adapter to assist in the installation of interface systems, using standard cables.

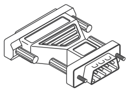

Fig. 23 — PS/2 Mouse Adapter

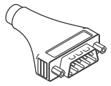

Fig. 24 — PS/2 Mouse-Cable Adapter

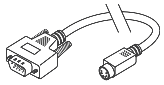

Fig. 25 — Jumper Box

Adapter for special matching of RS 232 interfaces.

The link wires included give an easy economical way of permanently reconfiguring pin functions without rewiring cable assemblies.

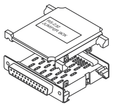

Fig. 26 — Wiring Box

Adapter for special matching of RS 232 interfaces, with the high quality contacts and wire bridges. This adapter can be used many times for the reconfiguration of cables without the need for soldering.

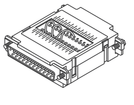

Fig. 27 — D-Sub/RS 232 Adapter

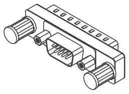

Fig. 28 — Gender Changer

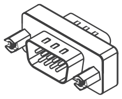

Fig. 29 — D-Sub/RJ Adapter

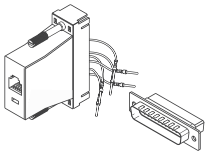

Fig. 30 — CD-ROM Audio Cable

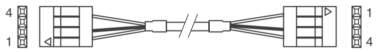

Fig. 31 — CD-ROM Audio Cable

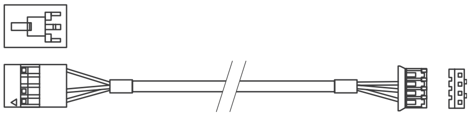

Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each			Assmann Part No.
					1	10	25	
11	6.56 (2)	9	2x D-Sub 9-Pin Male to Female	AE1379-ND	6.17	5.43	4.87	AK131-2-R
	9.84 (3)			AE9871-ND	7.72	6.79	6.09	AK178-3-R
	6.56 (2)	9	2x D-Sub 9-Pin Female to Female	AE9872-ND	7.66	6.73	6.04	AK152-2-R
	9.84 (3)			AE9873-ND	8.05	7.08	6.35	AK182-3-R
VGA Monitor Extension Cable - IBM PS/2 — RoHS Compliant								
12	6.56 (2)	—	2x HD D-Sub 15-Pin Male to Female	AE1380-ND	8.51	7.49	6.71	AK322-2-R
VGA Monitor Cable - IBM PS/2 — RoHS Compliant								
—	6.56 (2)	—	2x HD D-Sub 15 Pin Male to Male	AE10183-ND	6.47	5.69	5.10	AK532-2-R
Molded VGA to 5 x BNC, Monitor Cable — RoHS Compliant								
—	6.56 (2)	—	HD D-Sub 15-Pin Male to 5 x BNC Male	AE1381-ND	25.31	22.25	19.95	AK553-2-R
Molded Premium VGA Monitor Extension Cable — RoHS Compliant								
13	5.90 (1.8)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Female	AE9874-ND	13.83	12.16	10.90	AK3220-1.8-R
IBM PC-XT/AT Keyboard Extension								
14	6.56 (2)	5	5-Pin Standard DIN Male to Female	AE1023-ND	4.29	3.77	3.38	AK306-2
	16.40 (5)			AE10261-ND◆	12.84	11.29	10.12	AK307-5-R
Molded PS/2 Keyboard Extension — RoHS Compliant								
15	6.56 (2)	6	6-Pin MiniDIN Male to Female, Spiral	AE10177-ND	7.79	6.85	6.14	AK323-2-R
	16.40 (5)			AE10262-ND	14.09	12.39	11.11	AK528-5-R
16	6.56 (2)	6	MiniDIN 6-Pin Male to MiniDIN 6-Pin Female, Straight	AE9875-ND	4.13	3.63	3.25	AK323G-2-R
PS/2 Keyboard Cable - Straight — RoHS Compliant								
17	6.56 (2)	6	MiniDIN 6-Pin Male to MiniDIN 6-Pin Male, Molded	AE9876-ND	4.59	4.04	3.62	AK678-2-R
PC Modem (AT Adapter Cable) — RoHS Compliant								
18	.82 (.25)	9	D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE1382-ND	3.86	3.40	3.05	AK128-.25-R
	6.56 (2)		D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE9877-ND	6.07	5.34	4.79	AK125-2-R
Modem Cables — RoHS Compliant								
18	9.84 (3)	9	D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE9878-ND	8.15	7.17	6.43	AK149-3-R
			D-Sub 9-Pin Female to D-Sub 25-Pin Female	AE1383-ND	8.12	7.14	6.40	AK124-3-R
Null Modem, Cross-Cables — RoHS Compliant								
19	9.84 (3)	9	D-Sub 9-Pin Female to D-Sub 9-Pin Female	AE9879-ND	8.35	7.34	6.58	AK143-3-R
			D-Sub 9-Pin Male to D-Sub 9-Pin Female	AE9880-ND	8.05	7.08	6.35	AK142-3-R
Null Modem, Serial Cables								
20	9.84 (3)	25	D-Sub 25-Pin Female to D-Sub 25-Pin Female	AE1035-ND	4.39	3.86	3.46	AK144-3
			D-Sub 25-Pin Female to D-Sub 25-Pin Female	AE1384-ND◆	7.56	6.65	5.96	AK144-3-R
			D-Sub 25-Pin Male to D-Sub 25-Pin Male	AE1385-ND◆	10.56	9.28	8.32	AK250-3-R
			D-Sub 25-Pin Female to D-Sub 25-Pin Female	AE1037-ND	4.39	3.86	3.46	AK251-3
			D-Sub 25-Pin Female to D-Sub 25-Pin Female	AE1386-ND◆	7.59	6.67	5.98	AK251-3-R
PS/2 Keyboard Adapters								
21	—	—	1 x MiniDIN, 6-Pin Female to 1 x DIN 5-Pin Male	AE1046-ND	3.93	3.46	3.10	AB961
			1 x MiniDIN, 6-Pin Female to 1 x DIN 5-Pin Male	AE1387-ND◆	4.03	3.54	3.18	AB961-R
			1 x MiniDIN, 6-Pin Male to DIN 5-Pin Female	AE1047-ND	3.04	2.67	2.40	AB440
			1 x MiniDIN, 6-Pin Male to DIN 5-Pin Female	AE1388-ND◆	4.09	3.60	3.23	AB440-R
D-Sub Adapters — RoHS Compliant								
22	—	—	9-Pin Male to 25-Pin Male	AE1389-ND	5.02	4.41	3.96	AB913-R
			9-Pin Female to 25-Pin Male	AE9881-ND	4.49	3.95	3.54	AB914-R
			9-Pin Male to 25-Pin Female	AE9882-ND	3.96	3.48	3.12	AB914-F-R
PS/2 Mouse Adapters								
23	—	—	1 x MiniDIN, 6-Pin Female to 1 x D-Sub 9-Pin Female	AE1156-ND	2.05	1.80	1.62	AB406
			1 x MiniDIN, 6-Pin Female to 1 x D-Sub 25-Pin Female	AE1056-ND	7.26	6.38	5.72	AB441
PS/2 Mouse-Cable Adapters								
24	.5 (.15)	—	1 x MiniDIN, 6-Pin Female to 1 x D-Sub 9-Pin Male	AE1154-ND	2.05	1.80	1.62	AB401K
			1 x MiniDIN, 6-Pin Male to 1 x D-Sub 9-Pin Female	AE1393-ND◆	3.20	2.82	2.53	AB450K-R
			1 x MiniDIN, 6-Pin Male to 1 x D-Sub 9-Pin Male	AE1155-ND	2.05	1.80	1.62	AB405K
			1 x MiniDIN, 6-Pin Female to 1 x D-Sub 9-Pin Female	AE1157-ND	2.05	1.80	1.62	AB406K
Jumper Box — RoHS Compliant								
25	—	—	1 x Male, 1 x Female, 25-Pin, Plastic	AE10180-ND	13.30	11.69	10.48	AB972-R
			1 x Male, 1 x Female, 25-Pin, Metallized	AE10182-ND	11.22	9.86	8.84	AB973-R

◆ ***RoHS Compliant***

(Continued)

Fig. 32 — Internal S/P - DIF Audio Cable

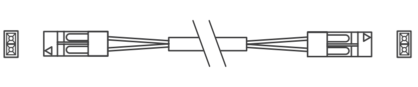

Fig. 33 — Disk Drive Power Splitters

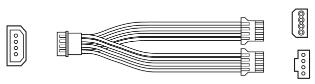

Fig. 34 — Y-Power Cord

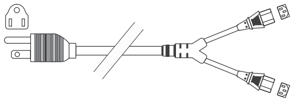

Fig. 35 — Power Cord, Straight/Angled

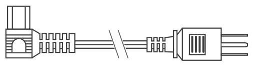

Fig. 36 — Power Cord, Straight/Straight

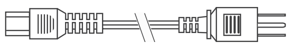

Fig. 37 — Power Cord Single Ended, Straight

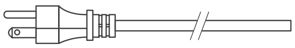

Fig. 38 — Power Cord Single Ended, Straight

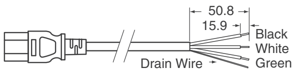

Fig. 39 — Power Cord Single Ended, Angled

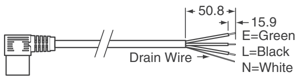

Fig. 40 — Power Cord Single Ended, Angled

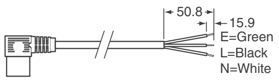

Fig. 41 — Power Cord Single Ended, Straight

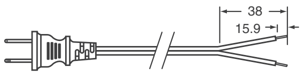

Fig. 42 — Power Cord, Straight/8-Device

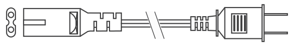

Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
Wiring Box								
26	—	—	1 x Male, 1 x Female, 25-Pin, Metallized	AE1041-ND	14.62	12.85	11.52	AB947
D-Sub/RS 232 Adapters — RoHS Compliant								
27	—	—	D-Sub 9-Pin Male to D-Sub 25-Pin Male	AE10291-ND	5.94	5.22	4.68	AB467-R
			D-Sub 9-Pin Male to D-Sub 25-Pin Female	AE10292-ND	5.18	4.56	4.09	AB468-R
			D-Sub 9-Pin Female to D-Sub 25-Pin Female	AE10293-ND	5.18	4.56	4.09	AB469-R
			D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE10294-ND	4.82	4.24	3.80	AB470-R
Gender Changers — RoHS Compliant								
28	—	—	D-Sub 9 Position Male to Male	AE10295-ND	4.09	3.60	3.23	AB410-R
			D-Sub 9 Position Female to Female	AE10296-ND	4.09	3.60	3.23	AB411-R
			D-Sub 15 Position Male to Male	AE10297-ND	4.09	3.60	3.23	AB412-R
			D-Sub 15 Position Female to Female	AE10298-ND	4.26	3.75	3.36	AB413-R
			D-Sub 25 Position Male to Male	AE10299-ND	4.26	3.75	3.36	AB414-R
			D-Sub 25 Position Female to Female	AE10300-ND	4.46	3.92	3.51	AB415-R
			D-Sub HD 15 Position Male to Male	AE10301-ND	5.18	4.56	4.09	AB418-R
			D-Sub HD 15 Position Female to Female	AE10302-ND	5.18	4.56	4.09	AB420-R
D-Sub/RJ Adapters (Beige) — RoHS Compliant								
29	—	—	9 Position Male RJ12 Jack	AE10307-ND	5.38	4.73	4.24	AT-23064-R
			9 Position Female RJ12 Jack	AE10308-ND	5.38	4.73	4.24	AT-23065-R
			9 Position Male RJ45 Jack	AE10309-ND	5.38	4.73	4.24	AT-23066-R
			9 Position Female RJ45 Jack	AE10310-ND	5.38	4.73	4.24	AT-23067-R
			25 Position Male RJ12 Jack	AE10303-ND	5.74	5.05	4.53	AT-23052-R
			25 Position Female RJ12 Jack	AE10304-ND	5.74	5.05	4.53	AT-23053-R
			25 Position Male RJ45 Jack	AE10305-ND	5.74	5.05	4.53	AT-23054-R
			25 Position Female RJ45 Jack	AE10306-ND	5.74	5.05	4.53	AT-23055-R
Power Splitter Cables								
30	1.64 (0.5)	—	Audio CD-ROM 4 Position 3 Wire	AE1396-ND◆	1.65	1.45	1.30	AK2525-R
31	1.64 (0.5)	—	Audio CD-ROM 4 Position 3 Wire	AE1397-ND◆	1.85	1.63	1.46	AK2524-R
32	1.64 (0.5)	—	Internal Cable 2-Pin Housing/Housing	AE9884-ND◆	2.31	2.03	1.82	AK2526DVD-R
33	.66 (.2)	4	Power Cable for 2 - 5 1/4” Drives	AE9885-ND◆	2.28	2.01	1.80	AK319-.2-R
			Power Cable for 2 - 3 1/2” Drives	AE1398-ND◆	2.61	2.30	2.06	AK520-.2-R
			Power Cable for 3 1/2” and 5 1/4” Drives	AE1029-ND	1.98	1.74	1.56	AK521-.2
			Power Cable for 3 1/2” and 5 1/4” Drives	AE1399-ND◆	2.61	2.30	2.06	AK521-.2-R
Y-Power Cord — RoHS Compliant								
34	6.56 (2)	—	1 x Power Plug to 2 x Straight Connector, 10A, 125V	AE9886-ND	19.07	16.77	15.03	AK500/Y-U-R
Power Cords								
35	6.56 (2)	—	Power Plug, Straight to IEC Connector, Angled, 10A, 125V	AE9887-ND◆	8.84	7.78	6.97	AK500/U-1-R
36	6.56 (2)	—	Power Plug, Straight to IEC Connector, Straight, 10A, 125V	AE9888-ND◆	8.91	7.83	7.02	AK500/U-2-R
37	6.56 (2)	—	Cord SVT 18AWG 3 Cond Shielded	AE9889-ND◆	8.51	7.49	6.71	AK500-OE-5-2-R
	9.84 (3)		Cord SVT 18AWG 3 Cond Shielded	AE9890-ND◆	11.81	10.39	9.31	AK500-OE-5-3-R
	6.56 (2)		Cord SJT 18AWG 3 Cond Shielded	AE9891-ND◆	8.78	7.72	6.92	AK500-OE-6-2-R
	9.84 (3)		Cord SJT 18AWG 3 Cond Shielded	AE9892-ND◆	12.34	10.85	9.73	AK500-OE-6-3-R
	6.56 (2)		Cord SVT 18AWG 3 Cond Shielded	AE9893-ND◆	8.35	7.34	6.58	AK500-OE-7-2-R
38	6.56 (2)	—	Cord SJT 18AWG 3 Cond Shielded	AE9895-ND◆	8.81	7.75	6.95	AK500-OE-9-2-R
	9.84 (3)		Cord SJT 18AWG 3 Cond Shielded	AE1339-ND	6.27	5.51	4.94	AK500-OE-9-3
	9.84 (3)		Cord SJT 18AWG 3 Cond Shielded	AE9896-ND◆	13.99	12.30	11.03	AK500-OE-9-3-R
39	6.56 (2)	—	Cord SJT 18AWG 3 Cond Shielded	AE1331-ND	4.55	4.01	3.59	AK500-RA-5-2
	6.56 (2)		Cord SJT 18AWG 3 Cond Shielded	AE9897-ND◆	8.75	7.69	6.89	AK500-RA-5-2-R
40	6.56 (2)	—	Cord SVT 18AWG 3 Cond	AE1333-ND	5.64	4.96	4.45	AK500-RA-6-2
	6.56 (2)		Cord SVT 18AWG 3 Cond	AE9899-ND◆	6.86	6.04	5.41	AK500-RA-6-2-R
	6.56 (2)		Cord SJT 18AWG 3 Cond	AE9900-ND◆	7.82	6.88	6.17	AK500-RA-7-2-R
	9.84 (3)		Cord SJT 18AWG 3 Cond	AE1335-ND	6.11	5.38	4.82	AK500-RA-7-3
41	6 (1.83)	—	Cord SPT-1 18AWG 2 Cond	AE9902-ND◆	5.54	4.88	4.37	AK500-OE-12-6F-R
	8.99 (2.74)		Cord SPT-1 18AWG 2 Cond	AE9903-ND◆	7.85	6.91	6.19	AK500-OE-12-9F-R
	6 (1.83)		Cord SPT-2 18AWG 2 Cond	AE9904-ND◆	5.74	5.05	4.53	AK500-OE-13-6F-R
	8 (2.44)		Cord SPT-2 18AWG 2 Cond	AE1348-ND	3.23	2.84	2.55	AK500-OE-13-8F
42	6.56 (2)	—	Power Plug, Straight to Figure 8 Device Connector, Straight	AE1123-ND	2.92	2.57	2.30	AK500/U-3
	6.56 (2)		Power Plug, Straight to Figure 8 Device Connector, Straight	AE9906-ND◆	7.00	6.15	5.52	AK500/U-3-R
Power Cord Extension								
43	6.56 (2)	—	IEC Plug, Straight to IEC Socket, Straight, 10A, 125V	AE9854-ND◆	11.02	9.69	8.69	AK500/U-4-R
	3.28 (1)		Cord SJT 18AWG 3 Cond Shielded	AE1336-ND	3.56	3.13	2.81	AK500-JC-5-1
	3.28 (1)		Cord SJT 18AWG 3 Cond Shielded	AE9908-ND◆	10.56	9.28	8.32	AK500-JC-5-1-R

◆ ***RoHS Compliant***

(Continued)

Fig. 43 — Power Cord Extension

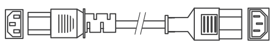

Fig. 44 — RCA Male to Male

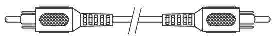

Fig. 45 — RCA Male to Female

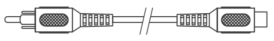

Fig. 46 — RCA Male to Male

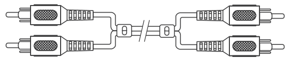

Fig. 47 — RCA Male to Female

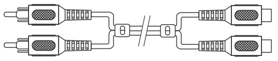

Fig. 48 — RCA Male to Male, High Quality

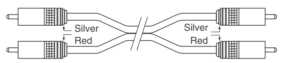

Fig. 49 — RCA Male to Male, High Quality

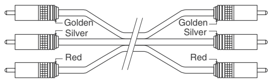

Fig. 50 — S Video Male to Male and RCA Male to Male, High Quality

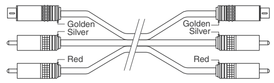

Fig. 51 — RCA Male to Male, High Quality

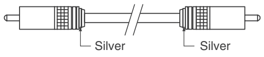

Fig. 52 —S Video Male to Male, High Quality

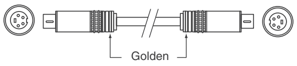

Fig. 53 — S Video Male to Female, High Quality

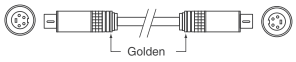

Fig. 54 — RCA Male to Stereo 3.5mm Male

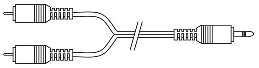

Fig. 55 — Stereo 3.5mm Male to RCA Female

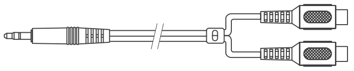

Fig. 56 — Stereo 3.5mm Male to Male

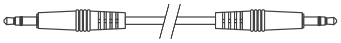

Fig. 57 — Stereo 3.5mm Male to Female

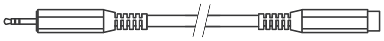

Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each			Assmann Part No.
					1	10	25	
43	3.28 (1)	—	Cord SJT 18AWG 3 Cond	AE1337-ND	3.30	2.90	2.60	AK500-JC-6-1
	3.28 (1)		Cord SJT 18AWG 3 Cond	AE9909-ND◆	9.57	8.41	7.54	AK500-JC-6-1-R
	1.64 (.5)		Cord SVT 18AWG 3 Cond Shielded	AE9910-ND◆	4.88	4.30	3.85	AK500-OE-11-.5-R
	3.28 (1)		Cord SVT 18AWG 3 Cond Shielded	AE9911-ND◆	8.28	7.28	6.53	AK500-OE-11-1-R
	4.92 (1.5)		Cord SVT 18AWG 3 Cond Shielded	AE1342-ND	4.03	3.54	3.18	AK500-OE-11-1.5
	4.92 (1.5)	—	Cord SVT 18AWG 3 Cond Shielded	AE9912-ND◆	8.38	7.37	6.61	AK500-OE-11-1.5-R
	6.56 (2)		Cord SVT 18AWG 3 Cond	AE9913-ND◆	9.47	8.33	7.47	AK500-OE-11-2-R
	8.20 (2.5)		Cord SVT 18AWG 3 Cond	AE9914-ND◆	9.60	8.44	7.57	AK500-OE-11-2.5-R
Multi-Media Cables								
44	4.92 (1.5)	—	RCA Male to Male	AE1400-ND◆	3.10	2.73	2.45	AK-AV200-R
	6.56 (2)		RCA Male to Male	AE1401-ND◆	3.56	3.14	2.81	AK302-2-R
	8.20 (2.5)		RCA Male to Male	AE1402-ND◆	3.40	2.99	2.68	AK-AV201-R
45	8.20 (2.5)	—	RCA Male to Female	AE1403-ND◆	3.56	3.14	2.81	AK-AV202-R
46	4.92 (1.5)	—	2RCA Male to Male	AE1404-ND◆	4.49	3.95	3.54	AKCHMM-015-R
	6.56 (2)		2RCA Male to Male	AE1405-ND◆	5.41	4.76	4.27	AKCHMM-2-R
	8.20 (2.5)		2RCA Male to Male	AE1406-ND◆	6.30	5.54	4.97	AKCHMM-025-R
	16.40 (5)		2RCA Male to Male	AE1407-ND◆	9.64	8.47	7.60	AKCHMM-050-R
47	4.92 (1.5)	—	2RCA Male to Female (Red and White)	AE1408-ND◆	4.46	3.92	3.51	AKCHMF-015-R
	6.56 (2)		2RCA Male to Female (Red and White)	AE1409-ND◆	4.55	4.01	3.59	AKCHMF-2-R
	6.56 (2)		2RCA Male to Female (Red and Black)	AE1410-ND◆	3.86	3.40	3.05	AK3030-2-R
	8.20 (2.5)		2RCA Male to Female (Red and White)	AE1411-ND◆	5.61	4.93	4.42	AKCHMF-025-R
	16.40 (5)		2RCA Male to Female (Red and White)	AE1412-ND◆	7.69	6.76	6.06	AKCHMF-050-R
48	4.92 (1.5)	—	Audio RCA High Quality, Male to Male	AE1413-ND◆	20.59	18.10	16.23	AK-AV500-R
	16.40 (5)		Audio RCA High Quality, Male to Male	AE1414-ND◆	32.97	28.98	25.98	AK-AV501-R
49	4.92 (1.5)	—	Audio/Video RCA High Quality, Male to Male	AE1353-ND	26.66	23.44	21.01	AK-AV504
	4.92 (1.5)		Audio/Video RCA High Quality, Male to Male	AE1415-ND◆	32.54	28.60	25.64	AK-AV504-R
	16.40 (5)		Audio/Video RCA High Quality, Male to Male	AE1416-ND◆	51.08	44.90	40.25	AK-AV505-R
50	4.92 (1.5)	—	Audio/Video RCA High Quality, Male to Male	AE1417-ND◆	32.14	28.25	25.33	AK-AV510-R
	16.40 (5)		Audio/Video RCA High Quality, Male to Male	AE1418-ND◆	59.90	52.64	47.19	AK-AV511-R
51	4.92 (1.5)	—	Audio RCA High Quality, Male to Male	AE1419-ND◆	11.45	10.07	9.03	AK-AV502-R
	16.40 (5)		Audio RCA High Quality, Male to Male	AE1420-ND◆	15.64	13.75	12.33	AK-AV503-R
52	4.92 (1.5)	—	Video S-VHS High Quality, Male to Male	AE10074-ND◆	11.95	10.50	9.42	AK-AV506-R
	16.40 (5)		Video S-VHS High Quality, Male to Male	AE1422-ND◆	22.74	19.99	17.92	AK-AV507-R
53	4.92 (1.5)	—	Video S-VHS High Quality, Male to Female	AE9915-ND◆	14.32	12.59	11.29	AK-AV508-R
	16.40 (5)		Video S-VHS High Quality, Male to Female	AE1423-ND◆	23.56	20.71	18.57	AK-AV509-R
54	4.92 (1.5)	—	3.5mm Stereo Male to 2RCA Male	AE9916-ND◆	4.39	3.86	3.46	AK243-015-R
	6.56 (2)		3.5mm Stereo Cable, 2 Phono Male	AE9917-ND◆	5.15	4.53	4.06	AK243-2-R
	8.20 (2.5)		3.5mm Stereo Male to 2RCA Male	AE1424-ND◆	5.81	5.11	4.58	AK243-025-R
	16.40 (5)		3.5mm Stereo Male to 2RCA Male	AE1425-ND◆	8.12	7.14	6.40	AK243-050-R
	32.8 (10)		3.5mm Stereo Male to 2RCA Male	AE1426-ND◆	8.15	7.17	6.43	AK243-10-R
55	6.56 (2)	—	3.5mm Stereo Male to 2RCA Female	AE1427-ND◆	4.49	3.95	3.54	AK244-R
56	6.56 (2)	—	3.5mm Stereo Male to Male	AE9918-ND◆	3.76	3.31	2.97	AK203/MM-R
57	8.20 (2.5)	—	3.5mm Stereo Male to Female	AE9919-ND◆	5.08	4.47	4.01	AK203-2.5-R

◆ ***RoHS Compliant***

ASSMANN SCSI, Serial ATA, USB, CAT5e and CAT6 Computer Cable Assemblies

HP = Half Pitch

Fig.	Length Meters	Lines	Description	Digi-Key Part No.	Price Each			Assmann Part No.
					1	10	25	
FAST SCSI 2 to SCSI 2 Cable, Shielded, UL 2919 — RoHS Compliant								
1	0.90	50	HP D-sub 50, HP D-sub, Male	AE1428-ND	27.42	24.10	21.61	AK579/F-1-R
	2.0		Clip to HP D-sub 50, HP D-sub, Male, Clip	AE1429-ND	29.67	26.98	24.28	AK579/F-2-R
SCSI-2 Series, Round Cable								
2	0.91	50	HP D-sub 50 Male to Centronic 50 Male, A Cable	AE1069-ND	16.60	14.59	13.08	AK-Y1202
SCSI-3 Series, Round Cable								
3	0.91	68	HP D-sub 68 Male X 2, A Cable	AE1430-ND◆	28.30	25.73	23.16	AK-Y1301-R
4	0.91	50	HP D-sub 68 Male to Centronic 50 Male, A Cable	AE1071-ND	18.94	16.65	14.93	AK-Y1302
SCSI-3 Series, Flat Cable								
5	0.45	68	.635mm HP D-sub 68 Male X 2, P Cable	AE1489-ND◆	17.46	15.35	13.76	AK-Y2301-R
6	1.6	68	.635mm HP D-sub 68 Female X 2 to .635mm HP D-sub 68 Male X 8	AE1079-ND	42.17	38.92	36.20	AK-Y2310
Hard Drive Cable for 2 x IDE / AT Bus Hard Drives — RoHS Compliant								
7	0.5	40	(3) 40 Pin Socket Connectors	AE10263-ND	4.19	3.69	3.31	AK5430-.5-R
Ultra ATA Flat Cable — RoHS Compliant								
8	0.46	40	Ultra ATA HDD 100Mbps	AE10184-ND	5.54	4.88	4.37	AK-ATA-100-R
Serial ATA Cables — RoHS Compliant								
9	0.3	7	Serial ATA Cable	AE10077-ND	3.17	2.79	2.50	AK-SATA-030-R
	0.5			AE10079-ND	3.43	3.02	2.71	AK-SATA-050-R
	0.75			AE10081-ND	3.66	3.22	2.89	AK-SATA-075-R
	1.0			AE10083-ND	4.16	3.66	3.28	AK-SATA-100-R
10	0.3	7	Serial ATA Cable Right Angle	AE10078-ND	3.53	3.11	2.79	AK-SATA-030DL-R
	0.5			AE10080-ND	3.04	2.67	2.40	AK-SATA-050DL-R
	0.75			AE10082-ND	3.66	3.22	2.89	AK-SATA-075DL-R
11	0.5	7	Serial ATA Cable 4-Pos. Power Connector	AE10084-ND	5.87	5.17	4.63	AK-SATA-SP-050-R
	0.75			AE10085-ND	6.24	5.49	4.92	AK-SATA-SP-075-R
	1.0			AE10086-ND	6.57	5.78	5.18	AK-SATA-SP-100-R
12	0.15	4	Power Supply Cable 15-Pos. - 4-Pos.	AE10087-ND	2.97	2.61	2.34	AK-SATA-PC-015-R
13A	0.5	7	Conn Slotbracket 1-SATA Port	AE10088-ND	6.57	5.78	5.18	AK-SATA-SB1-R
13B	0.5	7	Conn Slotbracket 2-SATA Ports	AE10089-ND	11.85	10.42	9.34	AK-SATA-SB2-R
HDMI / DVI Cables and Adapters — RoHS Compliant								
14	2.0	—	HDMI-A Male to HDMI-A Male Cable	AE10256-ND	22.41	19.70	17.66	AK627-2-R
	3.0		HDMI-A Male to HDMI-A Male Cable	AE10257-ND	25.55	23.23	20.91	AK627-3-R
	5.0		HDMI-A Male to HDMI-A Male Cable	AE10246-ND	30.76	28.38	26.40	AK627-5-R
15	2.0	—	HDMI-A Male to DVI-D Cable	AE10258-ND	21.65	19.03	17.06	AK639-2-R
	3.0		HDMI-A Male to DVI-D Cable	AE10259-ND	23.54	21.40	19.26	AK639-3-R
	5.0		HDMI-A Male to DVI-D Cable	AE10260-ND	29.78	27.48	25.56	AK639-5-R
—	—	—	HDMI-A Male to DVI-D 24+1, Female Adapter	AE10249-ND	16.47	14.48	12.98	AB556-R
			HDMI-A Male to DVI-D 24+1, Male Adapter	AE10250-ND	16.47	14.48	12.98	AB557-R
			HDMI-A Female to DVI-D 24+1, Female Adapter	AE10254-ND	18.12	15.93	14.28	AB566-R
			HDMI-A Female to DVI-D 24+1, Male Adapter	AE10255-ND	16.47	14.48	12.98	AB567-R
			HDMI-A Female to HDMI-A, Female Adapter	AE10251-ND	16.47	14.48	12.98	AB560-R
			HDMI-A Male to HDMI-A, Female Adapter	AE10252-ND	18.12	15.93	14.28	AB561-R
			HDMI-A Male to HDMI-A, Male Adapter	AE10253-ND	16.47	14.48	12.98	AB562-R
IEEE 1394 Cable Double Shielded								
16	1.8	6	6-Pin Male to 6-Pin Male	AE1432-ND◆	15.08	13.26	11.89	AK-1394-18-R
	3.0			AE1433-ND◆	18.68	16.42	14.72	AK-1394-30-R
	5.0			AE1434-ND◆	23.04	21.27	19.78	AK-1394-50-R
17	1.8	5	6-Pin Male to 4-Pin Male	AE1435-ND◆	13.96	12.27	11.00	AK-1394-184-R
	3.0	4		AE1436-ND◆	13.34	12.13	10.92	AK-1394-304-R
	5.0	4		AE1437-ND◆	21.04	19.42	18.06	AK-1394-504-R
18	1.8	4	4-Pin Male to 4-Pin Male	AE1127-ND	23.38	21.25	19.13	AK-1394-1844
	1.8			AE1438-ND◆	11.94	10.85	9.77	AK-1394-1844-R
	5.0			AE1133-ND	29.03	26.79	24.92	AK-1394-5044
IEEE 1394 and USB Connectors								
19	—	—	IEEE 1394 Recept Horizontal SMT	AE7348-ND	2.00	1.76	1.58	A-IE-S-SMT
				AE9920-ND◆	2.84	2.50	2.24	A-IE-S-SMT-R
20	—	—	IEEE 1394 Recept Horizontal PCB	AE9921-ND◆	2.71	2.38	2.14	A-IE-S-DIP-R
21	—	—	IEEE 1394 Recept Vertical PCB	AE9922-ND◆	2.71	2.38	2.14	A-IE-E-DIP-R
22	—	4	USB 4P Recept Thru-hole, Type A	AE9923-ND◆	.83	.73	.65	AU-Y1005-R
			USB 4P Recept SMT, Type A	AE9924-ND◆	1.09	.96	.86	AU-Y1006-R
23	—	4	USB 4P Recept Thru-hole, Type B	AE9925-ND◆	.96	.85	.76	AU-Y1007-R
24	—	4	USB 4P Recept Dual Port, Type A	AE9926-ND◆	1.65	1.45	1.30	AU-Y1008-R
USB Plugs and Hoods — RoHS Compliant								
25	—	—	USB A-Male, Solder Version	AE10091-ND	.43	.38	.34	A-USBPA-R
			Hood for USB A Male	AE10090-ND	.40	.35	.32	A-USBPA-HOOD-R
			Hood for USB B Male	AE1441-ND	.40	.35	.32	A-USBPB-HOOD-R
			USB B-Male, Solder Version	AE10178-ND	.43	.38	.34	A-USBPB-R
USB Cables								
26	1.0	4	Cable Mini USB 4-Pin Male	AE1442-ND◆	4.59	4.04	3.62	AK670M-1-R
	2.0			AE1443-ND◆	5.64	4.96	4.45	AK670M-2-R
	5.0			AE1283-ND	4.36	3.83	3.44	AK670M-5
	1.0	4	Cable Mini USB 2.0, 4-Pin Male	AE1444-ND◆	5.18	4.56	4.09	AK670M/2-1-R
	2.0			AE1445-ND◆	6.24	5.49	4.92	AK670M/2-2-R
	3.0			AE1446-ND◆	7.66	6.73	6.04	AK670M/2-3-R
	5.0			AE1447-ND◆	10.79	9.49	8.51	AK670M/2-5-R
27	1.0	4	Cable Mini USB 5-Pin Male	AE1448-ND◆	5.97	5.25	4.71	AK672M-1-R
	2.0			AE9927-ND◆	6.47	5.69	5.10	AK672M-2-R
	3.0			AE9928-ND◆	6.60	5.80	5.20	AK672M-3-R
	5.0			AE1449-ND◆	9.37	8.24	7.39	AK672M-5-R
	1.0	4	Cable Mini USB 2.0, 5-Pin Male	AE1450-ND◆	3.42	2.44	2.32	AK672M/2-1-R
	2.0			AE9929-ND◆	4.93	3.52	3.35	AK672M/2-2-R
	3.0			AE1451-ND◆	5.99	4.28	4.07	AK672M/2-3-R
	5.0			AE1452-ND◆	9.17	8.07	7.23	AK672M/2-5-R
28	1.0	4	Cable Mini USB, 5-Pin Female to 5-Pin Male	AE10311-ND◆	5.48	4.82	4.32	AK669M-1-R
	2.0			AE10312-ND◆	6.07	5.34	4.79	AK669M-2-R
29	2.0	—	Cable USB A Male, Open End	AE9855-ND◆	3.47	2.48	2.36	AK670-OE-R
30	2.0	4	Cable USB A-A Male	AE9930-ND◆	6.34	5.57	5.00	AK670/2-R
	5.0			AE1453-ND◆	11.52	10.13	9.08	AK670-5-R
	1.0	4	Cable USB 2.0, A-A Male	AE1454-ND◆	4.72	4.15	3.72	AK670/2-1-R
	3.0			AE1455-ND◆	8.09	7.11	6.37	AK670/2-3-R
	5.0			AE1456-ND◆	11.65	10.24	9.18	AK670/2-5-R

◆ ***RoHS Compliant***

(Continued)

Fig. 1 — SCSI 2 to SCSI 2 Round Cable

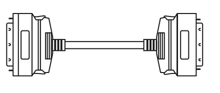

Fig. 2 — SCSI-2 Extension Cable

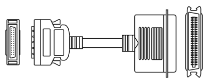

Fig. 3 — SCSI-3 Extension Cable

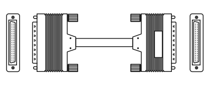

Fig. 4 — SCSI-3 Adapter Cable

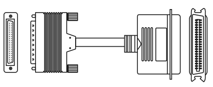

Fig. 5 — SCSI-3 Internal Flat Cable

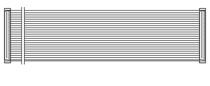

Fig. 6 — SCSI-3 Internal RAID Flat Cable

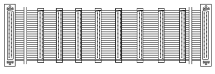

Fig. 7 — 40 Pin Socket Connectors

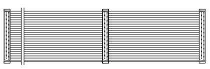

Fig. 8 — Ultra ATA Flat Cable

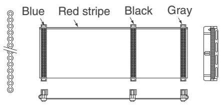

Fig. 9 — Serial ATA Cable

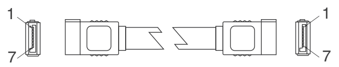

Fig. 10 — Serial ATA Cable Right Angle

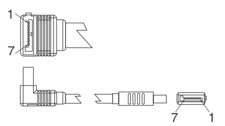

Fig. 11 — Serial ATA Cable with Power Connector

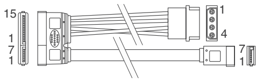

Fig. 12 — Serial ATA Cable with Power Cable

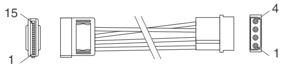

Fig. 13 — Serial ATA Slotbracket with Cable

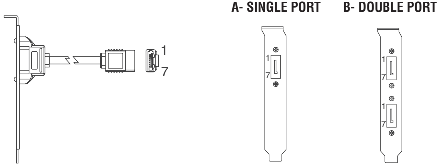

Fig. 14 — HDMI-A Male to HDMI-A Male

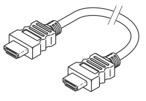

Fig. 15 — HDMI-A Male to DVI-D

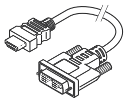

Fig. 16 — IEEE 1394 Cable

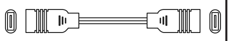

Fig. 17 — IEEE 1394 Cable

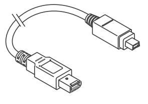

Fig. 18 — IEEE 1394 Cable

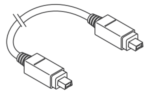

Fig. 19 — IEEE 1394 Receptacle

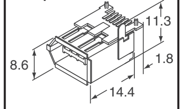

Fig. 20 — IEEE 1394 Receptacle

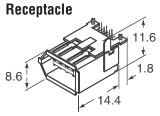

Fig. 21 — IEEE 1394 Receptacle

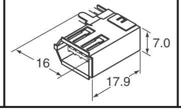

Fig. 22 — USB 4P Female Right Angle Connector

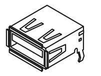

ASSMANN SCSI, Serial ATA, USB, CAT5e and CAT6 Computer Cable Assemblies *(Cont.)*

Fig.	Length Meters	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
31	2.0	4	Cable USB B-B Male	AE1151-ND	4.95	4.35	3.90	AK673-2
	2.0			AE1457-ND◆	7.13	6.27	5.62	AK673-2-R
	1.0	4	Cable USB 2.0, B-B Male	AE1458-ND◆	4.72	4.15	3.72	AK673/2-1-R
	2.0			AE1459-ND◆	5.97	5.25	4.71	AK673/2-2-R
	5.0			AE1460-ND◆	11.52	10.13	9.08	AK673/2-5-R
32	1.5	4	Cable USB A-B Male	AE9931-ND◆	5.87	5.17	4.63	AU-Y1002A-R
	2.0			AE9932-ND◆	6.01	5.28	4.74	AK672-2-R
	5.0			AE1461-ND◆	10.26	9.02	8.09	AK672-5-R
	1.0	—	Cable USB 2.0, A-B Male	AE1462-ND◆	2.77	1.98	1.89	AK672/2-1-R
	2.0			AE1493-ND◆	3.95	2.82	2.68	AK672/2-2-R
	3.0			AE1463-ND◆	5.54	3.96	3.77	AK672/2-3-R
	5.0			AE9933-ND◆	9.90	8.70	7.80	AK672/2-5-R
	2.0	4	Cable USB A-B Male, iMac Blue	AE1361-ND◆	7.49	6.59	5.91	AK672MB-R
	2.0		Cable USB A-B Male, iMac Purple	AE1464-ND◆	7.49	6.59	5.91	AK672MG-R
	2.0		Cable USB A-B Male, iMac Green	AE1465-ND◆	7.49	6.59	5.91	AK672ML-R
	2.0		Cable USB A-B Male, iMac Red	AE1466-ND◆	7.49	6.59	5.91	AK672MS-R
33	1.8	4	USB A Male to USB A Female, Double Shield	AE9934-ND◆	5.78	5.08	4.55	AK669-1.8-R
	3.0			AE9935-ND◆	7.33	6.44	5.78	AK669-3-R
	5.0			AE1468-ND◆	13.23	11.63	10.43	AK669-50-R
34	2.0	4	USB B to Open End	AE1470-ND◆	5.38	4.73	4.24	AK673-OE-R
			USB Adapters — RoHS Compliant					
35	—	—	USB 1.1 to PS/2 (2)	AE10287-ND	17.79	15.64	14.02	DA-70118
36	—	—	USB 1.1 to Serial Male/DB-9	AE10288-ND	24.72	22.48	20.23	DA-70145
			USB 2.0 to Serial Male/DB-9	AE10289-ND	30.91	28.10	25.29	DA-70146
37	—	—	USB 2.0 Repeater 5 Meters	AE10290-ND	27.80	25.28	22.75	DA-70130
			USB Adapters — Internal/External on Slot Bracket, Double Shielded — RoHS Compliant					
38	0.25	—	2 x USB-A Female to 2 x 5-Pin, 2.54mm Socket Conn.	AE10179-ND	7.10	6.24	5.59	AK674-R
			USB Adapters — Molded					
39	—	4	USB-A Female to USB-B Male	AE1159-ND	4.95	4.35	3.90	A-USB-2
			USB-A Male to USB-B Female	AE1472-ND◆	6.37	5.60	5.02	A-USB-3-R
			USB-A Female to USB-B Female	AE1318-ND	4.95	4.35	3.90	A-USB-1
			USB-A Female to USB-B Female	AE1473-ND◆	6.37	5.60	5.02	A-USB-1-R
			USB-A Female to USB-A Female	AE1474-ND◆	6.37	5.60	5.02	A-USB-4-R
40	1.83	—	Adapter USB Serial DB9/25 Male	AE1488-ND◆	32.62	30.10	28.00	DA-70119-R
			Modular Plugs					
41	—	—	4P4C, Unshielded, for Flat Cable	AE1194-ND	.17	.15	.13	A-MO-4/4-SF
			4P4C, Unshielded, for Flat Cable	AE1475-ND◆	.26	.24	.21	A-MO-4/4-SF-R
			6P4C, Unshielded, for Flat Cable	AE1476-ND◆	.20	.18	.16	A-MO-6/4-SF-R
			6P6C, Unshielded, for Flat Cable	AE1477-ND◆	.40	.35	.32	A-MO-6/6-SF-R
			8P8C, Unshielded, for Flat Cable	AE1478-ND◆	.53	.47	.42	A-MO-8/8-SF-R
			8P8C, Shielded, for Flat Cable, CAT5	AE1479-ND◆	.89	.79	.71	A-MO-8/8-SFS-R
			4P4C, Unshielded, for Round Cable	AE1195-ND	.17	.15	.13	A-MO-4/4-SR
			6P4C, Unshielded, for Round Cable	AE1481-ND◆	.26	.24	.21	A-MO-6/4-SR-R
			6P6C, Unshielded, for Round Cable	AE1482-ND◆	.40	.35	.32	A-MO-6/6-SR-R
			8P8C, Unshielded, for Round Cable	AE1483-ND◆	.53	.47	.42	A-MO-8/8-SR-R
			8P8C, Shielded, for Round Cable, CAT5	AE1484-ND◆	.89	.79	.71	A-MO-8/8-SRS-R
			Keystone Jacks — RoHS Compliant					
42	—	—	RJ45 Jack-Jack CAT5E	AE10093-ND	8.02	7.05	6.32	A-TA3534-R
			RJ45 Jack-Jack CAT6	AE10094-ND	9.37	8.24	7.39	A-TA3535-R

◆ *RoHS Compliant*

Fig. 23 — USB 4P Female Right Angle Connector

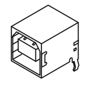

Fig. 24 — USB 4P Female Dual Port Right Angle Thru-Hole Connector

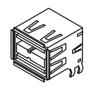

Fig. 25 — USB Plugs and Hoods

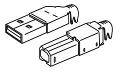

Fig. 26 — Mini USB Cables with 4 Position Male

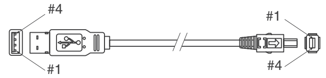

Fig. 27 — Mini USB Cables with 5 Position Male

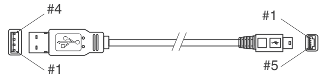

Fig. 28 — Mini USB Cable with 5 Position Female to 5 Position Male

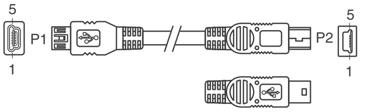

Fig. 29 — USB Cable, A Male Open End

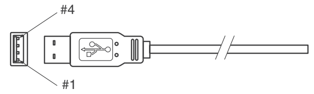

Fig. 30 — USB Cable, A-A Male

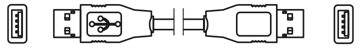

Fig. 31 — USB Cable, B-B Male

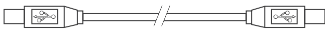

Fig. 32 — USB Cable, A-B Male

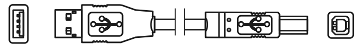

Fig.	Length Meters	Description	Unshielded Version (UTP) Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.	Shielded Version (FTP) Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
		PVC Cable Assembly CAT5(e), RJ45 – Molded										
43	1.0	CAT 5e, Patch Cable, Gray	AE9936-ND◆	4.32	3.80	3.41	A-MCUP-80010-R	AE9961-ND◆	3.30	2.90	2.60	A-MCSP-80010-R
	2.0		AE9937-ND◆	5.18	4.56	4.09	A-MCUP-80020-R	AE9962-ND◆	4.65	4.09	3.67	A-MCSP-80020-R
	3.0		AE9938-ND◆	6.44	5.66	5.07	A-MCUP-80030-R	AE9963-ND◆	6.17	5.43	4.87	A-MCSP-80030-R
	5.0		AE9939-ND◆	8.91	7.83	7.02	A-MCUP-80050-R	AE9964-ND◆	9.01	7.92	7.10	A-MCSP-80050-R
	10.0		AE9940-ND◆	17.09	15.03	13.47	A-MCUP-80100-R	AE9965-ND◆	16.37	14.39	12.90	A-MCSP-80100-R
	1.0	CAT 5e, Patch Cable, Red	—	—	—	—	—	AE1234-ND	2.84	2.50	2.24	A-MCSP-80010/R
	1.0		AE9941-ND◆	4.32	3.80	3.41	A-MCUP-80010/R-R	AE9966-ND◆	5.21	4.59	4.11	A-MCSP-80010/R-R
	2.0		—	—	—	—	—	AE1239-ND	3.99	3.51	3.15	A-MCSP-80020/R
	2.0		AE9942-ND◆	5.61	4.93	4.42	A-MCUP-80020/R-R	AE9967-ND◆	6.24	5.49	4.92	A-MCSP-80020/R-R
	3.0		AE1219-ND	3.66	3.22	2.89	A-MCUP-80030/R	AE1244-ND	5.12	4.50	4.03	A-MCSP-80030/R
	3.0	CAT 5e, Patch Cable, Red	AE9943-ND◆	7.43	6.53	5.85	A-MCUP-80030/R-R	AE9968-ND◆	7.76	6.82	6.11	A-MCSP-80030/R-R
	5.0		AE1224-ND	5.35	4.70	4.22	A-MCUP-80050/R	AE1249-ND	7.13	6.27	5.62	A-MCSP-80050/R
	5.0		AE9944-ND◆	10.86	9.55	8.56	A-MCUP-80050/R-R	AE9969-ND◆	10.76	9.46	8.48	A-MCSP-80050/R-R
	10.0		AE1229-ND	9.64	8.47	7.60	A-MCUP-80100/R	AE1254-ND	12.71	11.17	10.01	A-MCSP-80100/R
	10.0		AE9945-ND◆	19.73	17.35	15.55	A-MCUP-80100/R-R	AE9970-ND◆	20.59	18.10	16.23	A-MCSP-80100/R-R
	1.0	CAT 5e, Patch Cable, Blue	AE9946-ND◆	4.32	3.80	3.41	A-MCUP-80010/B-R	AE9971-ND◆	5.21	4.59	4.11	A-MCSP-80010/B-R
	2.0		AE9947-ND◆	5.61	4.93	4.42	A-MCUP-80020/B-R	AE9972-ND◆	6.24	5.49	4.92	A-MCSP-80020/B-R
	3.0		AE9948-ND◆	7.43	6.53	5.85	A-MCUP-80030/B-R	AE9973-ND◆	7.76	6.82	6.11	A-MCSP-80030/B-R
	5.0		AE1225-ND	5.35	4.70	4.22	A-MCUP-80050/B	AE1250-ND	7.13	6.27	5.62	A-MCSP-80050/B
	5.0		AE9949-ND◆	10.86	9.55	8.56	A-MCUP-80050/B-R	AE9974-ND◆	10.76	9.46	8.48	A-MCSP-80050/B-R
	10.0	CAT 5e, Patch Cable, Blue	—	—	—	—	—	AE1255-ND	12.71	11.17	10.01	A-MCSP-80100/B
	10.0		AE9950-ND◆	19.73	17.35	15.55	A-MCUP-80100/B-R	AE9975-ND◆	20.59	18.10	16.23	A-MCSP-80100/B-R
	1.0	CAT 5e, Patch Cable, Yellow	AE9951-ND◆	4.32	3.80	3.41	A-MCUP-80010/Y-R	AE9976-ND◆	5.21	4.59	4.11	A-MCSP-80010/Y-R
	2.0		—	—	—	—	—	AE1241-ND	3.99	3.51	3.15	A-MCSP-80020/Y
	2.0		AE9952-ND◆	5.61	4.93	4.42	A-MCUP-80020/Y-R	AE9977-ND◆	6.24	5.49	4.92	A-MCSP-80020/Y-R
	3.0		AE9953-ND◆	7.43	6.53	5.85	A-MCUP-80030/Y-R	AE9978-ND◆	7.76	6.82	6.11	A-MCSP-80030/Y-R
	5.0		—	—	—	—	—	AE1251-ND	7.13	6.27	5.62	A-MCSP-80050/Y
	5.0	CAT 5e, Patch Cable, Yellow	AE9954-ND◆	10.86	9.55	8.56	A-MCUP-80050/Y-R	AE9979-ND◆	10.76	9.46	8.48	A-MCSP-80050/Y-R
	10.0		AE1231-ND	9.64	8.47	7.60	A-MCUP-80100/Y	AE1256-ND	12.71	11.17	10.01	A-MCSP-80100/Y
	10.0		AE9955-ND◆	19.73	17.35	15.55	A-MCUP-80100/Y-R	AE9980-ND◆	20.59	18.10	16.23	A-MCSP-80100/Y-R

◆ *RoHS Compliant*

(Continued)

Fig. 33 — USB Extension Cable

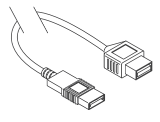

Fig. 34 — USB Cable, B to Open End

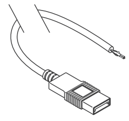

Fig. 35 — USB to PS/2 Adapter

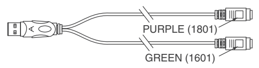

Fig. 36 — USB to Serial Adapter

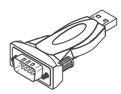

Fig. 37 — USB 2.0 Repeater Cable

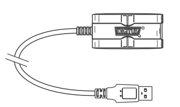

ASSMANN SCSI, Serial ATA, USB, CAT5e and CAT6 Computer Cable Assemblies *(Cont.)*

			Unshielded Version (UTP)					Shielded Version (FTP)				
	Length		Digi-Key	Price Each			Assmann	Digi-Key	Price Each			Assmann
Fig.	Meters	Description	Part No.	1	10	25	Part No.	Part No.	1	10	25	Part No.
43	1.0	CAT 5e, Patch Cable, Green	AE1212-ND	2.05	1.80	1.62	A-MCUP-80010/G	—	—	—	—	—
	1.0		AE9956-ND◆	4.32	3.80	3.41	A-MCUP-80010/G-R	AE9981-ND◆	5.21	4.59	4.11	A-MCSP-80010/G-R
	2.0		—	—	—	—	—	AE1242-ND	3.99	3.51	3.15	A-MCSP-80020/G
	2.0		AE9957-ND◆	5.61	4.93	4.42	A-MCUP-80020/G-R	AE9982-ND◆	6.24	5.49	4.92	A-MCSP-80020/G-R
	3.0		AE1222-ND	3.66	3.22	2.89	A-MCUP-80030/G	—	—	—	—	—
	3.0		AE9958-ND◆	7.43	6.53	5.85	A-MCUP-80030/G-R	AE9983-ND◆	7.76	6.82	6.11	A-MCSP-80030/G-R
	5.0		AE9959-ND◆	10.86	9.55	8.56	A-MCUP-80050/G-R	AE9984-ND◆	10.76	9.46	8.48	A-MCSP-80050/G-R
	10.0		—	—	—	—	—	AE1257-ND	12.71	11.17	10.01	A-MCSP-80100/G
	10.0		AE9960-ND◆	19.73	17.35	15.55	A-MCUP-80100/G-R	AE9985-ND◆	20.59	18.10	16.23	A-MCSP-80100/G-R
PVC Cable Assembly CAT6, RJ45 – Molded — RoHS Compliant												
44	0.5	CAT6, Patch Cable, Gray	AE10219-ND	5.02	4.41	3.96	A-MCU60005-R	AE10189-ND	6.57	5.78	5.18	A-MCSSP60005-R
	1.0		AE10224-ND	6.11	5.37	4.81	A-MCU60010-R	AE10194-ND	8.02	7.05	6.32	A-MCSSP60010-R
	2.0		AE10229-ND	8.75	7.69	6.89	A-MCU60020-R	AE10199-ND	11.95	10.50	9.42	A-MCSSP60020-R
	3.0		AE10234-ND	11.58	10.18	9.13	A-MCU60030-R	AE10204-ND	15.48	13.61	12.20	A-MCSSP60030-R
	5.0		AE10239-ND	16.90	14.85	13.32	A-MCU60050-R	AE10209-ND	22.04	19.38	17.37	A-MCSSP60050-R
	10.0		AE10244-ND	25.69	23.35	21.02	A-MCU60100-R	AE10214-ND	32.75	29.78	26.80	A-MCSSP60100-R
	0.5	CAT6, Patch Cable, Red	AE10217-ND	5.02	4.41	3.96	A-MCU60005/R-R	AE10187-ND	5.45	4.79	4.29	A-MCSSP60005/R-R
	1.0		AE10222-ND	6.11	5.37	4.81	A-MCU60010/R-R	AE10192-ND	6.67	5.86	5.26	A-MCSSP60010/R-R
	2.0		AE10227-ND	8.75	7.69	6.89	A-MCU60020/R-R	AE10197-ND	9.93	8.73	7.83	A-MCSSP60020/R-R
	3.0		AE10232-ND	11.58	10.18	9.13	A-MCU60030/R-R	AE10202-ND	12.84	11.29	10.12	A-MCSSP60030/R-R
	5.0		AE10237-ND	16.90	14.85	13.32	A-MCU60050/R-R	AE10207-ND	18.28	16.07	14.41	A-MCSSP60050/R-R
	10.0		AE10242-ND	25.69	23.35	21.02	A-MCU60100/R-R	AE10212-ND	27.20	24.73	22.26	A-MCSSP60100/R-R
	0.5	CAT6, Patch Cable, Blue	AE10215-ND	5.02	4.41	3.96	A-MCU60005/B-R	AE10185-ND	5.45	4.79	4.29	A-MCSSP60005/B-R
	1.0		AE10220-ND	6.11	5.37	4.81	A-MCU60010/B-R	AE10190-ND	6.67	5.86	5.26	A-MCSSP60010/B-R
	2.0		AE10225-ND	8.75	7.69	6.89	A-MCU60020/B-R	AE10195-ND	9.93	8.73	7.83	A-MCSSP60020/B-R
	3.0		AE10230-ND	11.58	10.18	9.13	A-MCU60030/B-R	AE10200-ND	12.84	11.29	10.12	A-MCSSP60030/B-R
	5.0		AE10235-ND	16.90	14.85	13.32	A-MCU60050/B-R	AE10205-ND	18.28	16.07	14.41	A-MCSSP60050/B-R
	10.0		AE10240-ND	25.69	23.35	21.02	A-MCU60100/B-R	AE10210-ND	27.20	24.73	22.26	A-MCSSP60100/B-R
	0.5	CAT6, Patch Cable, Yellow	AE10218-ND	5.02	4.41	3.96	A-MCU60005/Y-R	AE10188-ND	6.57	5.78	5.18	A-MCSSP60005/Y-R
	1.0		AE10223-ND	6.11	5.37	4.81	A-MCU60010/Y-R	AE10193-ND	8.02	7.05	6.32	A-MCSSP60010/Y-R
	2.0		AE10228-ND	8.75	7.69	6.89	A-MCU60020/Y-R	AE10198-ND	11.95	10.50	9.42	A-MCSSP60020/Y-R
	3.0		AE10233-ND	11.58	10.18	9.13	A-MCU60030/Y-R	AE10203-ND	15.48	13.61	12.20	A-MCSSP60030/Y-R
	5.0		AE10238-ND	16.90	14.85	13.32	A-MCU60050/Y-R	AE10208-ND	22.04	19.38	17.37	A-MCSSP60050/Y-R
	10.0		AE10243-ND	25.69	23.35	21.02	A-MCU60100/Y-R	AE10213-ND	32.75	29.78	26.80	A-MCSSP60100/Y-R
	0.5	CAT6, Patch Cable, Green	AE10216-ND	5.02	4.41	3.96	A-MCU60005/G-R	AE10186-ND	5.45	4.79	4.29	A-MCSSP60005/G-R
	1.0		AE10221-ND	6.11	5.37	4.81	A-MCU60010/G-R	AE10191-ND	6.67	5.86	5.26	A-MCSSP60010/G-R
	2.0		AE10226-ND	8.75	7.69	6.89	A-MCU60020/G-R	AE10196-ND	9.93	8.73	7.83	A-MCSSP60020/G-R
	3.0		AE10231-ND	11.58	10.18	9.13	A-MCU60030/G-R	AE10201-ND	12.84	11.29	10.12	A-MCSSP60030/G-R
	5.0		AE10236-ND	16.90	14.85	13.32	A-MCU60050/G-R	AE10206-ND	18.28	16.07	14.41	A-MCSSP60050/G-R
	10.0		AE10241-ND	25.69	23.35	21.02	A-MCU60100/G-R	AE10211-ND	27.20	24.73	22.26	A-MCSSP60100/G-R

◆ ***RoHS Compliant***

Fig. 38 — USB Adapter on Slot Bracket

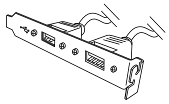

Fig. 39 — USB Adapter

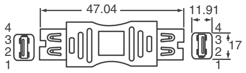

Fig. 40 — USB to Serial Adapter Cable

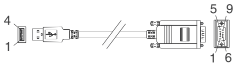

Fig. 41 — Modular Plug

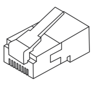

Fig.42 — Keystone Jack

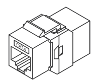

Fig. 43 — CAT5(e) Patch Cable

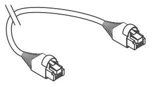

Fig. 44 — CAT6 Patch Cable

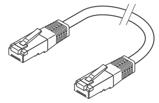

Cable Testers

PC Cable Tester, Standalone

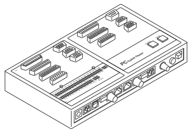

All suitable PC cable can be tested with this tester.

• Checks: connection, pin allocation and shielding • Pin allocation shown by LEDs: transmit (25), receive (36), battery (1), shielding (2), number of wires (4) • 4 Buttons: Test, auto/manual, speed, on/off • Automatic and manual test run • Connectors: D-Sub-9 M/F, D-Sub-15 M/F, D-Sub-15 HD M/F, D-Sub-25 M/F Centronics 36 female, BNC male, RJ45 female, USB A+B female, IEEE 1394 female, SATA Cable • Power supply by 9V block battery, 9V/150mA external power supply optional • Dimensions (W x D x H): 250mm x 130mm x 35mm

AE10092-ND PC Cable Tester, Standalone (ACT-PC-SO) **$231.46**

Network Cable Tester

RJ45, BNC

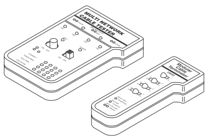

• Cable tester for shielded and unshielded CAT5 cable with RJ45 plug as well as for BNC-coax cable • Test function for cable with RJ45 UTP/STP and BNC plug, patch panels and modular wall plates • Fast test function by auto-scanning • Tests: connection, allocation, pairs according to EIA/TIA 356A, 568A, 568B, Token Ring • Main device with one RJ45 and one BNC female, remote unit with one RJ45 female • With remote unit for testing of installed cable • LEDs for status display • Operation with 9V block battery • Includes artificial leather bag

AE1206-ND Network Cable Tester (ACT-MN) **$71.28**

Modular Cable Tester RJ45 / RJ11 / RJ12

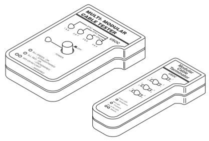

• Modular cable tester for cable with RJ45, RJ12 and RJ11 plug • Fast test function by auto-scanning • Test: connection, allocation and pairs • Main device with two RJ45 female; remote unit with one RJ45 female • Installed cable can be tested with remote unit • LEDs for status display • Operation with 9V block battery • Includes artificial leather bag

AE1204-ND Modular Cable Tester (ACT-MM) **$82.60**

Premium Network Cable Tester RJ45, BNC

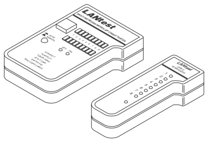

• Total of 18 LEDs (for each wire and for shielding) show the allocation and give a fast, exact test result • Operation with 9V block battery • Test function for cable with RJ45/11 UTP/STP & BNC plugs, patch panels and modular wall plates • Includes BNC cable adapter for coax cable test • Manual or automatic test run • Tests: connection, allocation, pairs according to EIA/TIA 356A, 568A, 568B, Token Ring • Main device with two RJ45 female, remote unit with one RJ45 female • Installed cable can be tested with remote unit • Includes artificial leather bag

AE1205-ND Premium Network Cable Tester (ACT-LAN)... **$113.32**

NEW! Flat Cable Tester

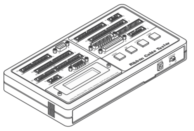

• Input: IDC50 male, IDC40 male, IDC34 male, IDC26 male, IDC10 male, DB15 male and DB9 female • Output: IDC50 male, IDC40 male, IDC34 male, IDC16 male, IDC10 male, DB25 male and DB25 female • Control Switches: Read, Test, Up and Down • Display: Liquid crystal display with backlight • Extension Ports: 2 x 40 pins IDC male connectors • Power: 9VDC Battery or 110/220V to 9VDC 150mA 2.50 power jack • Size: (L x W x H) 250mm x 134mm x 35mm

AE10313-ND Flat Cable Tester (ACT-FLAT).. **$502.50**

JAE Mini USB Connectors

Specifications: • Contact Resistance: 50mΩ maximum (initial) • Dielectric Withstanding Voltage: AC 100Vr.m.s per minute • Insulation Resistance: 100MΩ minimum (initial) • Rated Current: 1.0A • Rated Voltage: AC 30Vr.m.s • Operating Temperature: -20°C ~ 60°C Materials: • Terminal: Copper Alloy • Plating: Gold plating over Nickel on contact area, Tin Copper in tail area over nickel • Insulator: Glass filled Nylon • Shell: Copper Alloy, Tin plating over Nickel

				Cut Tape				Tape & Reel	
		No. of	Digi-Key	Price Each			Digi-Key	Pricing	JAE
Fig.	Description	Contacts	Part No.	1	25	100	Part No.	700	Part No.
1	Type "B" Right Angle	5	670-1190-1-ND	1.23	.65	.54	670-1190-2-ND	323.46	DX2R005HN2E700
2	Type "AB" Right Angle	5	670-1523-1-ND	4.18	2.58	2.38	670-1523-2-ND	1415.48	DX3R005HN2E700

Fig. 1

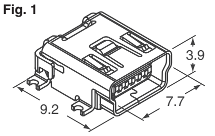

Fig. 2

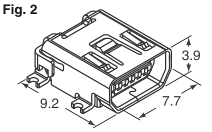

HIROSE ELECTRIC CO.,LTD.

Micro-USB (USB 2.0) Connectors

Hirose Electric Co. Limited has completed the development of the next generation USB Mirco interface. The connectors meet all requirements of the USB 2.0 standard. HRS Electric's established expertise in the development and manufacturing of precision high-density connectors were recognized by approval of our proposal as a standard interface. Cooperative efforts by all members of USB group were led by HRS and culminated in the development of the standard. As compared with Mini-interface, the previous smallest standard, Micro, is smaller and thinner and has better electrical and mechanical performance.

Material: *(Plug)* • Insulator: Polyamide Type-A: White, Type-B: Black, UL94V-0 • Metal Shell: Stainless steel, Nickel plated • Contact: Copper alloy • Contact area: Gold plated over nickel under plating • Termination area: Tin plated over nickel under plating • Lock metal: Stainless steel • Operating Temperature: -30°C ~ 85°C *(Receptacle)* • Insulator: LCP Type-B: Black, Type-AB: Gray, UL94V-0 • Contact: Copper alloy, Gold plated over nickel under plating • Metal shell: Stainless steel, Tin plated • Operating Temperature: 0°C ~ 50°C

Performance Characteristics: *(Plug and Receptacle)* • Rated Voltage: AC 30V • Current Capacity: (1) Signal line: 1A pin (No. 1 to 5); (2) 2-line for power: 1.8A pin (No. 1 and 5); 0.5A pin (No. 2 to 4) • Insulation Resistance: 100MΩ minimum at DC 500V • Contact Resistance: 30mΩ maximum at 100mA • Withstanding Voltage: AC 100V for 1 minute • Durability: 10,000 cycles

Dimensions in mm

Fig. 1

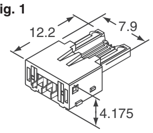

Fig. 2

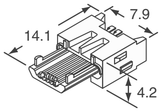

Fig. 3 ***NEW!***

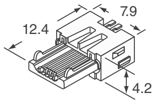

Fig. 4

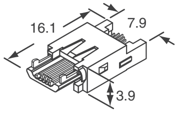

Fig. 5

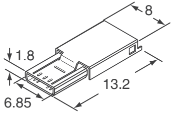

Fig. 6

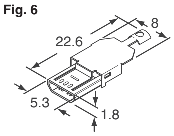

Fig. 7 ***NEW!***

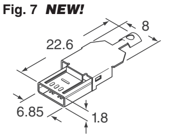

Fig. 8

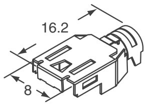

Fig. 9

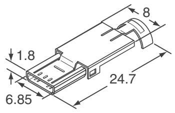

Fig. 10 ***NEW!***

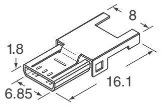

Fig. 11

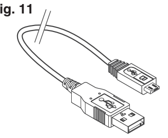

Fig. 12 ***NEW!***

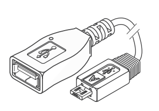

Fig. 13 ***NEW!***

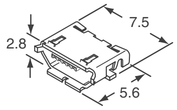

Fig. 14

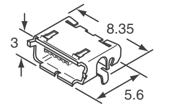

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing	Hirose Part No.
1	Type 'B' Plug, PCB Assembly Type	H11497-ND	1.58	1.15	.94	—	—	ZX20-B-5S-UNIT
2	Type 'B' Plug, Hand-solder Assembly Type	H11502-ND	2.01	1.46	1.20	—	—	ZX40-B-5S-UNIT(01)
3	Type 'A' Plug, Hand-solder Assembly Type	H11571-ND ***NEW!***	1.72	1.33	1.06	—	—	ZX40-A-5S-UNIT
4	Type 'B' Plug, PCB Assembly Type	H11499-ND	1.25	.91	.75	—	—	ZX64-B-5S-UNIT(12)
5	Shielding Plate for ZX20 Plug	H11496CT-ND†	.42	.21	.15	4,000	81.00/M	ZX20-B-SLDC
6	Shielding Plate Top for ZX40 Plug, Type B	H11500CT-ND†	.56	.27	.20	4,000	108.00/M	ZX40-B-SLDA
7	Shielding Plate Top for ZX40 Plug, Type A	H11572CT-ND† ***NEW!***	.48	.23	.17	4,000	92.00/M	ZX40-A-SLDA
8	Shielding Plate Bottom for ZX40 Plugs	H11501CT-ND†	.49	.24	.18	4,000	945.00/M	ZX40-SLDB
8	Shielding Plate Bottom for ZX40 Plugs	H11573CT-ND† ***NEW!***	.49	.24	.18	4,000	95.00/M	ZX40-SLDB(3.3)
9	Shielding Plate for ZX64 Plug	H11498CT-ND†	.37	.18	.14	4,000	72.00/M	ZX64-B-SLDA
10	Shielding Plate for ZX64 Plug	H11575CT-ND† ***NEW!***	.42	.25	.20	4,000	110.00/M	ZX64-B-SLDC
11	Cable Micro 'B' to Standard 'A', 0.5 Meters	H11503-ND	14.67	13.42	12.09	—	—	ZX40-B-5S-500-STDA
11	Cable Micro 'B' to Standard 'A', 1.0 Meters	H11489-ND	16.63	15.21	13.70	—	—	ZX40-B-5S-1000-STDA
11	Cable Micro 'B' to Standard 'A', 1.5 Meters	H11504-ND	16.16	15.08	14.01	—	—	ZX40-B-5S-1500-STDA
12	Cable Micro 'A' to Standard 'A', 0.075 Meters	H11576-ND ***NEW!***	8.87	7.17	5.63	—	—	ZX40-A-5S-75-STDAJ
13	Type 'B' SMD, Right Angle	H11579CT-ND† ***NEW!***	1.29	.94	.77	2,000	442.00/M	ZX62-B-5PA
14	Type 'AB' SMD Right Angle, Through Hole Shell	H11494CT-ND†	1.22	.88	.72	2,000	416.00/M	ZX62D-AB-5P8
15	Type 'B' MID Mount	H11493CT-ND†	1.49	1.08	.88	2,000	508.00/M	ZX62M-B-5P
16	Type 'AB' SMD Right Angle	H11580CT-ND† ***NEW!***	1.37	.99	.81	2,000	468.00/M	ZX62-AB-5PA
17	Micro 'B' Reverse Mount SMD	H11574CT-ND† ***NEW!***	1.33	.97	.79	2,000	455.00/M	ZX62R-B-5P

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

Fig. 15

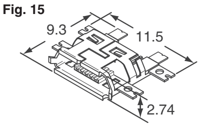

Fig. 16 ***NEW!***

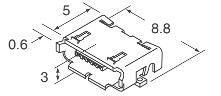

Fig. 17 ***NEW!***

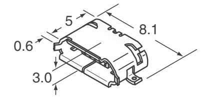

USB 2.0 Cable Assemblies and Connectors

Features: • Tested and certified by USB Association approved laboratory the connectors will perform at transmission speeds up to 480Mbps. Thin design of the plug assembly and the overmold section allows use in small spaces. The plug also incorporates a build-in snap-lock feature, providing tactile verification of the full and secure mating of plug and receptacle. Plating is lead-free in order to protect environment.

Applications: • Personal and mobile computer peripheral equipment, data terminals, digital cameras, MP3 players, PDA's, GPS and other devices utilizing standard USB protocols.

Specifications: • Current Rating: 1A • Voltage Rating: 5VAC • Operating Temperature Range: -30°C ~ 75°C • Contact Resistance: 50mΩ maximum • Insulation Resistance: 100MΩ minimum • Dielectric Withstanding Voltage: No Flashover or insulation break down; 100VAC/one minute. **Materials**; **Receptacles**: • Insulator: Synthetic resin • Finish Color: Black • Contacts: Copper alloy • Contact Area: Gold plating • Termination Area: Tin alloy plating • Metal Shield: Copper alloy • Finish: Tin alloy plating. **Materials**; **Plugs**: • Insulator: Synthetic resin • Finish Color: Black • Contacts: Copper Alloy • Finish Contact Area: Gold plating • Termination Area: Tin alloy plating • Metal Shield: Steel • Finish: Tin alloy plating • Over-mold compound: PVC • Finish: Black

Dimensions in mm

Fig. 1 (SMT)

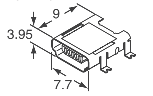

Fig. 2 (SMT)

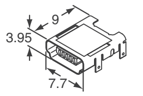

Fig. 3

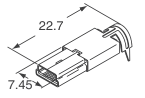

Fig. 4

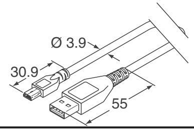

Fig. 5

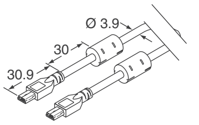

Fig.	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Hirose Part No.
Right Angle Receptacle, SMT Metal Shield Type with Positioning Post							
1	H2959CT-ND	1.18	.86	.70	H2959TR-ND	412.00	UX60-MB-5ST
Right Angle Receptacle, DIP Metal Shield Type with Positioning Post							
2	H2960CT-ND	1.18	.86	.70	H2960TR-ND	412.00	UX60-MB-5S8
Right Angle Receptacle, SMT Metal Shield Type without Positioning Post							
1	H2961CT-ND	1.18	.86	.70	H2961TR-ND	412.00	UX60A-MB-5ST
Plug, Cable Mount Type							
3	H2955-ND	1.18	.86	.70	—	—	UX40-MB-5P
	H2958-ND	1.18	.86	.70	—	—	UX40A-MB-5P

Fig.	Description	Length (mm)	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
4	USB Type A to Mini-B	1,000	H2957-ND	5.89	4.57	3.66	UX40-MB-5PA-1000-2003
5	USB Mini-B to Mini-B	500	H2956-ND	16.71	15.60	14.49	UX40-MB-5PP-500-1002

USB Interconnect System

Dimensions in Inches (mm)

The USB interconnect system is designed to combine all personal computing interface ports into one connector. This system is plug-and-play, hot pluggable and can handle data rates up to 12Mbps. **Specifications:** • Meets USB Standard • Durability: 1,500 Cycles • Withstanding Voltage: 30RMS • Current Rating: 1A Contact • Low Level Contact Resistance: 30mΩ maximum

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	Type 'A' Single, Right Angle	609-1045-ND	.88	.44	.38	87520-0010BLF
2	Type 'A' Single, Up-Right	609-1041-ND	.99	.52	.44	73725-0110BLF
3	Type 'A' Dual, Right Angle	609-1040-ND	1.34	.72	.62	72309-8034BLF
4	Type 'B' Single, Right Angle	609-1039-ND	1.03	.55	.47	61729-0010BLF
5	USB + Power Receptacle, Right Angle	609-1038-ND	5.38	3.43	3.13	55917-501LF
6	USB + Power Plug, Cable OD= 5.80 mm	609-1042-ND	10.18	7.22	6.64	74233-100LF
	USB + Power Plug, Cable OD= 5.10 mm	609-1043-ND	10.18	7.22	6.64	74233-101LF
	USB + Power Plug, Cable OD= 6.60 mm	609-1044-ND	10.18	7.22	6.64	74233-102LF

Fig. 1

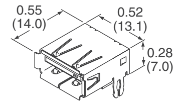

Fig. 2

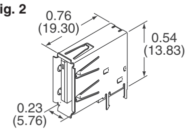

Fig. 3

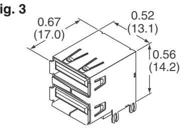

Fig. 4

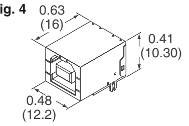

Fig. 5

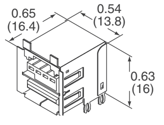

Fig. 6

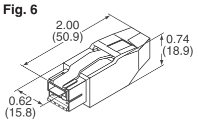

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

USB Connectors

Dimensions in mm

Fig. 1

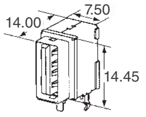

Fig. 2

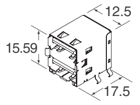

Fig. 3

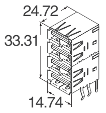

Fig. 4

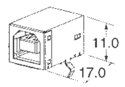

Fig. 5

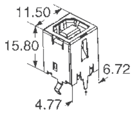

Fig. 6

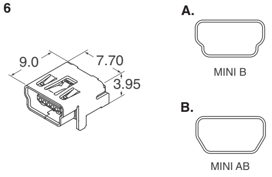

Fig. 7

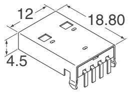

Fig. 8

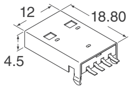

Fig. 9

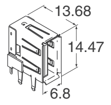

Fig. 10

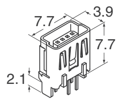

Fig. 11

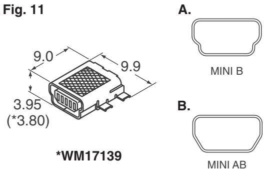

***WM17139**

Fig. 12 ***NEW!***

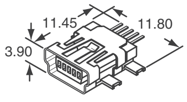

Fig. 13 ***NEW!***

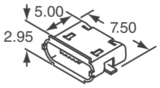

Fig. 14 ***NEW!***

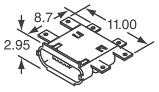

Fig. 15 ***NEW!***

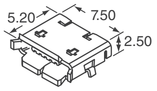

Fig. 16 ***NEW!***

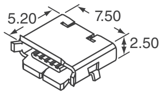

USB Standard Features:
• Broad industry support from computer and telecom leaders • 12 Mbit/sec low-cost data transfer rates • Provides PC/telephone integration and digital connectivity • Standard serial port connector for all devices • Supports daisy chaining and up to 127 devices • Windows '95 Operating Driver support **Applications:** • Desktop and Notebook PCs • Peripherals • Keyboard, Mouse • Telephony, ISDN, PBX's, Handsets

USB Connectors:
Electrical: • Voltage: 30V • Current: Up to 1.5A • Contact Resistance: 30mΩ maximum • Dielectric Withstanding Voltage: 750VAC • Insulation Resistance: 1000MΩ minimum • Housing: Glass fiber-filled polyester, UL94V-0 • Metal Shell: Copper Alloy • Plating: Gold

USB On-the-Go (OTG) Connectors:
• Approximately 1/8th the size of standard USB-B connectors • Fully compliant with current USB 2.0 specifications • Compact and lightweight design meets various portable and mobile equipment needs • Operates at speeds up to 480Mbps • Rugged durability up to 5,000 cycles

Micro-USB Connectors:
The interconnect solutions for the Molex Micro-USB system include OTG compatible, Micro-B and Micro AB receptacles. **Features and Benefits:** • Stainless steel shell • Multi-snap shield design • Pick and place area **Applications:** • Mobile Phone • MP3 Players • Portable Digital Video Players • Digital Still Cameras • Digital Video Cameras

Fig.	Description	Operating Temperature Range (°C)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Molex Part No.
				1	10	100		Qty.	Pricing	
1	Type “A” Upright, Right Angle, Gold Flash	0 ~ 40	WM17112-ND	2.14	1.89	1.26	—	—	—	89485-8000
	Type “A” Upright, Right Angle, 30 micro-inch, Gold	0 ~ 40	WM17138-ND ***NEW!***	2.31	1.85	1.24	—	—	—	89485-8001
2	Type “A” Dual Stacked, Right Angle, White	0 ~ 50	WM17130-ND◆	1.26	1.11	.74	—	—	—	67298-4090
3	Type “A” 4 Stacked, Right Angle, Black	0 ~ 40	WM17111-ND	7.13	6.29	4.20	—	—	—	67857-0011
4	Type “B” Single, Right Angle, Black, Gold Flash	0 ~ 50	WM17113-ND◆	2.00	1.77	1.18	—	—	—	67068-8000
	Type “B” Single, Right Angle, Black, 30 micro-inch, Gold	0 ~ 50	WM17123-ND◆	2.69	2.37	1.59	—	—	—	67068-8001
	Type “B” Single, Right Angle, White	0 ~ 50	WM17131-ND◆	1.87	1.66	1.11	—	—	—	67068-9000
5	Type “B” Vertical with Paired Board Locks and Grounding Pins	0 ~ 50	WM18716-ND◆	1.86	1.65	1.10	—	—	—	67265-2001
6A	Type “Mini-B” OTG, Right Angle, PCB Mount	0 ~ 50	WM17115-ND	2.19	1.75	1.17	—	—	—	54819-0519
6B	Type “Mini-AB” OTG, Right Angle, 5-Position, PCB Mount	0 ~ 50	WM17121-ND◆	3.79	3.35	2.23	—	—	—	56579-0519
7	Type “A” Single, Right Angle, PCB Mount	-20 ~ 85	WM17117-ND◆	1.93	1.71	1.14	—	—	—	48037-0001
8	Type “A” Single, Right Angle, SMD	-20 ~ 85	WM17118-ND◆	1.93	1.71	1.14	—	—	—	48037-1000
9	Type “A” Single, Upright Right Angle, PCB Mount	-55 ~ 85	WM17136-ND◆	2.04	1.81	1.21	—	—	—	47500-0000
10	Type “Mini-B” USB OTG, Vertical, 5-Position, PCB Mount	0 ~ 50	WM17120-ND◆	7.23	6.38	4.26	—	—	—	500075-0517
	Type “Mini-B” USB OTG, Vertical, 5-Position, PCB Mount	0 ~ 50	WM2072-ND◆	7.23	6.39	4.26	—	—	—	500075-1517
11A	Type “Mini-B” USB OTG, Right Angle, 5-Position, SMD	0 ~ 50	WM17116CT-ND†	1.76	1.41	.94	WM17116TR-ND	800	563.20	54819-0572
	Type “Mini-B” USB OTG, Right Angle, 5-Position, SMD, SMD Shield	0 ~ 50	WM5461CT-ND†◆	1.30	1.04	.87	WM5461TR-ND◆	500	291.50	67503-1020
	Type “Mini-B” USB OTG, Right Angle, 5-Position, SMD, Through Hole Shield, Short Body	0 ~ 50	WM5462CT-ND†◆	1.94	1.56	1.30	WM5462TR-ND◆	1,000	778.00	51387-0578
	Type “Mini-B” USB OTG, Right Angle, 5-Position, SMD, Through Hole Shield	-20 ~ 85	WM17139CT-ND†◆ ***NEW!***	1.05	.97	.79	WM17139TR-ND◆ ***NEW!***	500	307.00	47153-1002
11B	Type “Mini-AB” USB OTG, Right Angle, SMD, with Cover Tape	-40 ~ 85	WM17122CT-ND†◆	3.22	2.58	2.15	WM17122TR-ND◆	800	1030.40	56579-0576
12	Type “Mini-B” USB OTG, Right Angle, 5-Position, SMD, Sink Type	-20 ~ 85	WM17140CT-ND†◆ ***NEW!***	.81	.75	.62	WM17140TR-ND◆ ***NEW!***	700	332.50	48242-0001
13	Type “Micro-B” USB, SMD, Bottom Mount	-20 ~ 85	WM17141CT-ND†◆ ***NEW!***	1.14	1.05	.86	WM17141TR-ND◆***NEW!***	2,000	668.00/M	47346-0001
14	Type “Micro-B” USB, SMD, Mid Mount	-20 ~ 85	WM17142CT-ND†◆ ***NEW!***	1.29	1.19	.97	WM17142TR-ND◆ ***NEW!***	1,200	754.00/M	47491-0001
15	Type “Micro-AB” USB, SMD, Bottom Mount	-20 ~ 85	WM17143CT-ND†◆ ***NEW!***	.88	.81	.67	WM17143TR-ND◆ ***NEW!***	1,500	514.00/M	47589-0001
16	Type “Micro-AB” USB, SMD, Top Mount	-20 ~ 85	WM17144CT-ND†◆ ***NEW!***	.88	.81	.67	WM17144TR-ND◆ ***NEW!***	1,500	514.00/M	47590-0001

† Cut Tape ◆ ***RoHS Compliant***

Firewire 1394 I/O Connectors

Specifications: Headers are offered in high temperature plastic for true SMT processing. Full metal shielding design supports ESD protection. Rugged gold plated leaf contacts withstands up to 1500 cycles.

Fig.	Digi-Key Part No.	Price Each			Molex Part No.
		1	10	100	
1	WM17302-ND	4.48	3.95	2.64	53462-0629
2	WM17303-ND	4.48	3.95	2.64	53460-0629

Fig. 1 – Right Angle Flat Header

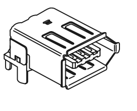

Fig. 2 – Right Angle Upright Header

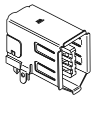

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

USB Cable Assemblies and Connectors

Fig. 1 and Fig. 2: Features: • Fully-shielded and polarized plugs • Friction grip on over-molded body facilitates easy mating and unmating Electrical: • Voltage: 30V • Current: 1.0A • Contact Resistance: 30mΩ max. • Dielectric Withstanding Voltage: 750VAC • Insulation Resistance: 1000MΩ min. **Mechanical:** • Mating Force: 35N max. • Withdrawal Force: 10N min. • Durability: 1500 cycles min.

Fig. 3: Features: • Fully compliant with current USB 2.0 specifications **Electrical:** • Voltage: 30V • Current: 1.0A • Insulation Resistance: 100MΩ min.

Fig. 4: Features: • Contact: Copper (Cu) Alloy • Plating Contact: 0.76µm (30µ") Gold (Au) • Color: White **Electrical:** Current: 1.0A max. • Voltage: 30V max. • Dielectronic Strength: 500VDC • Insulation Resistance: 100MΩ

Fig. 1

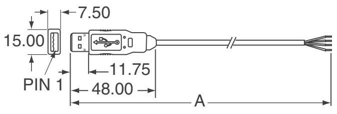

Fig. 2

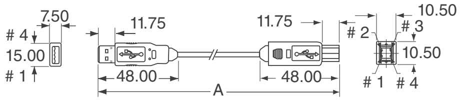

Fig. 3

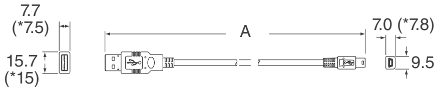

*WM17492-ND, WM17493-ND and WM17137-ND

Fig. 4

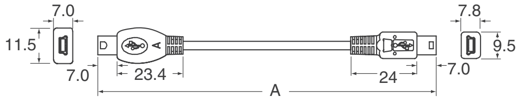

Fig.	Dimensions A mm	Description	Digi-Key Part No.	Price Each 1	10	25	Molex Part No.
1	2080	USB Type "A-to-Pigtail" Full-Rated – White	WM17104-ND	4.58	3.67	3.06	88728-3400
	2080	USB Type "A-to-Pigtail" Sub-Channel – White	WM17105-ND	3.22	2.58	2.15	88738-8200
2	820	USB Type "A-to-B" Full-Rated – White	WM17133-ND	4.11	3.29	2.74	88732-9000
	2090	USB Type "A-to-B" Full-Rated – White	WM17103-ND	5.17	4.14	3.45	88732-9200
	5010	USB Type "A-to-B" Full Rated – White	WM17134-ND	11.78	9.43	7.86	88732-9400
3	1000	USB Type "A to Mini-B" – White	WM17492-ND	4.25	3.41	2.84	88732-8600
	1000	USB Type "A to Mini-B" – Black	WM17493-ND	4.25	3.41	2.84	88732-8602
	2000	USB Type "A to Mini-B" – White	WM17132-ND	3.71	2.97	2.48	88732-8900
	2000	USB Type "A to Mini-B" – Black	WM17137-ND ***NEW!***	6.25	5.01	4.17	88732-8902
4	1000	USB Type "Mini-A to Mini-B" – White	WM17494-ND	4.08	3.27	2.73	88753-8200
	1800	USB Type "Mini-A to Mini-B" – White	WM17135-ND	6.36	5.09	4.24	88753-8500

Industrial Ethernet Plugs and Jacks, Category 5E and USB

Category 5E: Specifications: • Contact: Phosphor Bronze (CuSn) • Plating Contact: 1.27µm (50µ") Gold (Au) • Under Plating: Nickel (Ni) • Housing Material: PA Polyamide (Nylon), PBT Polyester, TPE Thermo Plastic Elastomer • Color: Black • Flammability: UL 94V-0 • Durability (mating cycles): 500 cycles minimum • Current: 1.5A maximum • Voltage: 125V maximum • Withstanding Voltage: 1000VAC • Contact Resistance: 20mΩ maximum • Insulation Resistance: 500MΩ minimum

USB:

Specifications: • Voltage: 30V • Current: 1.0A • Receptacle Housing: PBT, Black • Overmolding: PVC, Black • Contact: Copper Alloy • Plating: Contact Area – 0.75µm (30µ") Gold (Au) • Operating Temperature: 0°C ~ 70°C • Flammability: UL94V-O • Performance: USB 2.0 • Industrial Seal Rating: NEMA 6p and IP67

Fig. 1

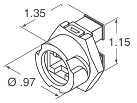

Fig. 2

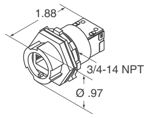

Fig. 3

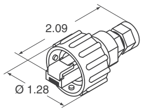

Fig. 4

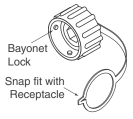

Fig. 5

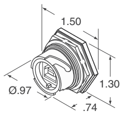

Fig. 6

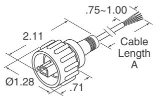

Fig. 7

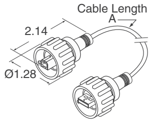

Fig. 8

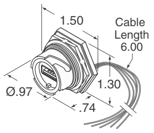

Fig. 9

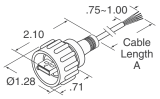

Fig. 10

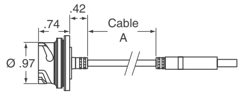

Fig.	Circuits-Contacts	Cable Length A Inch	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	8~8	—	Receptacle, Panel Mount	WM17486-ND	30.22	27.20	24.18	84702-0006-P
	8~8	—	Receptacle, Panel Mount, Fully Potted	WM17487-ND	35.80	32.22	28.64	84702-0008-P
	8~8	—	Receptacle, Panel Mount, PCB	WM17491-ND	8.59	7.73	6.87	84702-0005
2	8~8	—	Receptacle, Bulkhead	WM17488-ND	35.43	31.89	28.35	84700-0001-P
3	8~8	—	Plug	WM17489-ND	20.46	18.42	16.37	84700-0002-P
4	—	—	Universal Dust Cover for Ethernet Receptacle	WM17490-ND	9.30	8.37	7.44	84700-0003-P
5	4	—	Receptacle, Panel Mount, USB B	WM17514-ND	11.94	10.75	9.56	84730-0001
	4	—	Receptacle, Panel Mount, USB A, PCB	WM17495-ND	11.84	10.66	9.47	84729-0009
6	4	59.06	Plug, USB B, Shielded Pigtail	WM17515-ND	25.83	23.25	20.67	84728-1002
	4	118.11	Plug, USB B, Shielded Pigtail	WM17516-ND	27.74	24.97	22.19	84728-1003
7	4	59.06	Dual Plug, USB A and B, Shielded Cable	WM17517-ND	24.73	22.26	19.79	84732-0002
	4	118.11	Dual Plug, USB A and B, Shielded Cable	WM17518-ND	26.15	23.54	20.92	84732-0004
8	4	—	Receptacle, Panel Mount, USB A, Pigtail	WM17519-ND	12.30	11.07	9.84	84729-0001
9	4	59.06	Plug, USB A, Shielded Pigtail	WM17520-ND	25.83	23.25	20.67	84727-1002
	4	118.11	Plug, USB A, Shielded Pigtail	WM17521-ND	27.74	24.97	22.19	84727-1003
10	4	31.88	USB A Cord Assembly Plug and Receptacle	WM17496-ND	13.74	12.37	11.00	84729-0004
	4	81.89	USB A Cord Assembly Plug and Receptacle	WM17497-ND	16.32	14.70	13.06	84729-0006
Crimp Tool for Ethernet Plug, 8-8				WM18998-ND ***NEW!***	47.58	—	—	64016-0044

EDAC INC USB and Firewire Connectors

EDAC series 690 USB (Universal Serial Bus) and series 693 (IEEE 1394) connectors are industry-standard data transfer devices used to interconnect computers to peripheral devices such as scanners and printers. A wide variety of unique right angle vertical that minimizes board space. USB products are compatible with asynchronous and isochronous data transfer methods up to 1.2 Mbps and utilize plug and play technology. EDAC manufactures both USB and IEEE 1394 connectors in through-hole or SMT board styles as well as molded cable assemblies for USB A, B, mini-USB and IEEE variations.

Specifications: • USB 1.1 or USB 2.0 available • Minimum Mating Cycles: 1500 per EIA 364-09 • Insulator Housing: UL 94V-0 thermoplastic • Contact Material: P Bronze (USB), Copper Alloy (1394) • Contact Plating: Gold Flash or Gold Plate over nickel • Contact Resistance: 30mΩ maximum • Insulation Resistance: 100MΩ minimum • Current Rating: 1A maximum under 30°C • Voltage Rating: 30VAC rms maximum • DW Voltage: 750VAC @ 0 at sea level (USB), DC500 (1394) • Shield Housing: Copper alloy • Mate/Unmate: 35/10 Newtons per EIA 364-13 • Temperature Range: -55°C ~ 85°C

Fig. 1
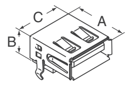

Fig. 2
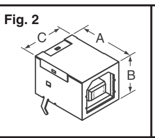

Fig. 3
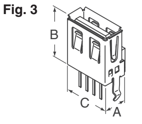

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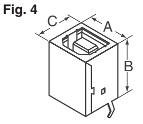

Fig. 5
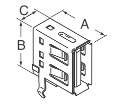

Fig. 6
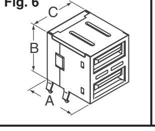

Fig. 7
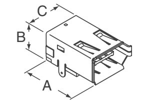

Fig. 8
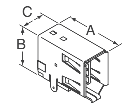

Fig. 9
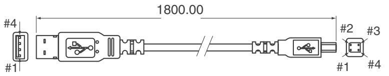

Fig.	Description	Dimension (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	EDAC Part No.
USB CONNECTORS									
30μ" Gold									
1	Type "A" Single, Horizontal Rt. Ang.	14.00	6.99	13.10	151-1080-ND	.81	.72	.58	690-004-621-013
2	Type "B" Single, Horizontal Rt. Ang.	16.00	10.62	12.04	151-1081-ND	1.02	.91	.73	690-004-621-023
3	Type "A" Single, Vertical Straight	7.62	15.00	14.50	151-1082-ND	1.24	1.10	.88	690-004-660-013
4	Type "B" Single, Vertical Straight	12.04	16.00	11.30	151-1083-ND	1.24	1.10	.88	690-004-660-023
5	Type "A" Single, Vertical Rt. Angle	14.10	13.15	7.56	151-1084-ND	1.33	1.19	.95	690-004-661-013
6	Type "A" Dual Stacked, Horizontal Right Angle	16.96	15.49	13.10	151-1085-ND	1.46	1.30	1.04	690-008-621-013
Gold Flash									
1	Type "A" Single, Horizontal Rt. Ang.	14.00	6.99	13.10	151-1123-ND	.71	.64	.51	690-004-221-013
2	Type "B" Single, Horizontal Rt. Ang.	16.00	10.62	12.04	151-1121-ND	.93	.83	.66	690-004-221-023
3	Type "A" Single, Vertical Straight	7.62	15.00	14.50	151-1114-ND	.81	.72	.58	690-004-260-013
5	Type "A" Single, Vertical Rt. Angle	14.10	13.15	7.56	151-1116-ND	1.24	1.10	.88	690-004-261-013
6	Type "A" Dual Stacked, Horizontal Right Angle	16.96	15.49	13.10	151-1122-ND	1.58	1.41	1.13	690-008-221-013
USB Cable Assembly									
9	USB Type "A'/M to USB Type 'B'/M	—	—	—	151-1079-ND	2.66	1.86	1.52	628-000-943
FIREWIRE CONNECTORS									
7	IEEE 1394A Single, Horiz. Rt. Ang.	16.25	8.70	13.50	151-1086-ND	1.55	1.38	1.10	693-006-620-003
8	IEEE 1394A Single, Vert. Rt. Ang.	18.00	13.50	5.30	151-1087-ND	7.07	6.27	5.02	693-006-621-003

Qualtek ELECTRONICS CORP. USB Cable Assemblies

Fig. 1
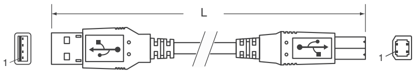

Fig. 2
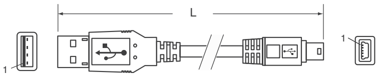

Fig. 3
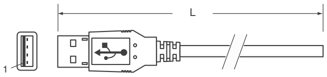

Features: • Transfer rates up to 480 Mbps depending on USB version • Make plug and play connections for such devices as keyboards, mice, modems, printers and other USB peripherals • Connects a USB peripheral to a USB Hub or USB port on PC/MAC • Compatible with USB specifications 1.0, 1.1 and 2.0

Fig.	Description	Wire	Dim. L (ft.)	N.W.	G.W.	Digi-Key Part No.	Price Each 1	10	100	Qualtek Part No.
Nickel — Black										
1	A-B	28/28	3	9	11	Q361-ND	2.52	1.80	1.50	3021001-03
2	A-mini B	28/28	3	8.3	10.3	Q362-ND	3.30	2.36	1.96	3021003-03
3	A-Blunt	28/28	3	8.1	10.1	Q363-ND	1.85	1.32	1.10	3021005-03
1	A-B	26/28	6	5.6	7.1	Q364-ND	3.75	2.68	2.23	3021007-06
2	A-mini B	26/28	6	5.3	6.8	Q365-ND	4.42	3.16	2.63	3021009-06
3	A-Blunt	26/28	6	5.2	6.7	Q366-ND	3.14	2.24	1.86	3021011-06
1	A-B	26/28	10	8.3	9.7	Q367-ND	5.10	3.64	3.03	3021013-010
2	A-mini B	26/28	10	8	9.4	Q368-ND	5.74	4.10	3.41	3021015-010
3	A-Blunt	26/28	10	7.9	9.3	Q369-ND	4.51	3.22	2.68	3021017-010
Gold — Black										
1	A-B	24/26	16	6.2	7.3	Q370-ND	9.13	6.52	5.42	3021019-16
2	A-mini B	24/26	16	6	7.1	Q371-ND	9.77	6.98	5.80	3021021-16
3	A-Blunt	24/26	16	5.9	7	Q372-ND	8.54	6.10	5.07	3021023-16
1	A-B	20/26	16	10	11.2	Q373-ND	9.13	6.52	5.42	3021025-16
2	A-mini B	20/26	16	9	10.2	Q374-ND	9.77	6.98	5.80	3021027-16
3	A-Blunt	20/26	16	8.8	10	Q375-ND	8.54	6.10	5.07	3021029-16

DVI Cable Assemblies

Features:
• Tri-shielded with dual Mylar® foil and braid shield reduces interference • Supports hot plugging of DVI display devices • PC and MAC compatible • Compatible with flat panel displays, digital CRT displays • Meets DVI DDWG Standard

Fig. 1
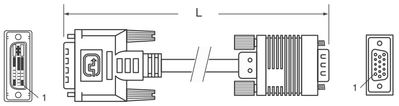

Fig. 2
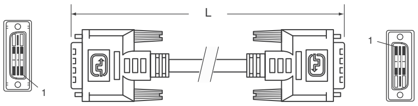

Fig.	Description	Wire (AWG)	Dim. L (ft.)	N.W.	G.W.	Digi-Key Part No.	Price Each 1	10	100	Qualtek Part No.
Nickel — Black										
1	12+5 - HD15P	28	3	6.3	7.5	Q376-ND	12.15	8.68	7.21	1321001-03
2	18+1 - 18+1	28	3	5.8	7	Q377-ND	14.37	10.27	8.52	1321003-03
2	18+5 - 18+5	28	3	7.5	8.7	Q378-ND	19.48	13.92	11.56	1321005-03
2	24+1 - 24+1	28	3	7.3	8.5	Q379-ND	16.49	11.78	9.78	1321007-03
2	24+5 - 24+5	28	3	8.1	9.3	Q380-ND	19.58	13.99	11.61	1321009-03
1	12+5 - HD15P	28	6	9.2	10.4	Q381-ND	16.88	12.06	10.01	1321011-06
2	18+1 - 18+1	28	6	8.2	9.4	Q382-ND	18.61	13.30	11.04	1321013-06
2	18+5 - 18+5	28	6	11.5	12.7	Q383-ND	25.89	18.50	15.36	1321015-06
2	24+1 - 24+1	28	6	11.3	12.5	Q384-ND	21.65	15.47	12.84	1321017-06
2	24+5 - 24+5	28	6	13.3	14.6	Q385-ND	27.16	19.40	16.11	1321019-06
1	12+5 - HD15P	28	10	6.5	7.5	Q386-ND	23.18	16.56	13.75	1321021-10
2	18+1 - 18+1	28	10	5.7	6.7	Q387-ND	24.30	17.36	14.41	1321023-10
2	18+5 - 18+5	28	10	8.5	9.6	Q388-ND	34.33	24.52	20.36	1321025-10
2	24+1 - 24+1	28	10	8.4	9.4	Q389-ND	28.56	20.40	16.94	1321027-10
2	24+5 - 24+5	28	10	10.3	11.5	Q390-ND	37.24	26.60	22.08	1321029-10
Gold — Black										
1	12+5 - HD15P	26	16	9.4	10.5	Q391-ND	38.67	27.62	22.93	1321031-16
2	18+1 - 18+1	26	16	8.2	9.3	Q392-ND	39.73	28.38	23.56	1321033-16
2	18+5 - 18+5	26	16	10.4	11.5	Q393-ND	54.68	39.06	32.42	1321035-16
2	24+1 - 24+1	26	16	10.1	11.2	Q394-ND	44.27	31.62	26.25	1321037-16
2	24+5 - 24+5	26	16	12.2	13.4	Q395-ND	61.63	44.02	36.54	1321039-16

HDMI Cable Assemblies

Features: • Broadcast quality digital video, digital audio and inter component control signals all in one compact, high performance connection • Three layers of shielding: two 80% + OFC copper braids and one 100% over lapped Mylar® foil provide complete immunity to environmental EMI and RFI • Nitrogen-injected dielectric and meticulous construction make this interconnect the perfect choice for the most demanding home cinema installations

Fig. 1
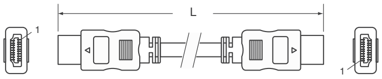

Fig. 2
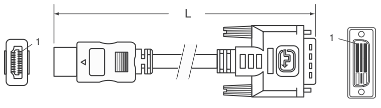

Fig.	Description	Wire (AWG)	Dim. L (ft.)	N.W.	G.W.	Digi-Key Part No.	Price Each 1	10	100	Qualtek Part No.
Nickel — Black										
1	Type A - Type A	28	3	7.5	8.7	Q396-ND	17.98	12.84	10.66	1721001-03
2	Type A - DVI(18+1)	28	3	9.1	10.3	Q397-ND	17.98	12.84	10.66	1721003-03
1	Type A - Type A	28	6	6.1	7.2	Q398-ND	22.82	16.30	13.53	1721005-06
2	Type A - DVI(18+1)	28	6	7	8.1	Q399-ND	22.82	16.30	13.53	1721007-06
1	Type A - Type A	28	10	9.4	10.6	Q400-ND	29.26	20.90	17.35	1721009-10
2	Type A - DVI(18+1)	28	10	10.5	11.7	Q401-ND	29.26	20.90	17.35	1721011-10
1	Type A - Type A	26	16	7.3	8.3	Q402-ND	49.22	35.16	29.19	1721013-16
2	Type A - DVI(18+1)	26	16	7.8	8.8	Q403-ND	49.22	35.16	29.19	1721015-16
1	Type A - Type A	26	30	10.2	11.3	Q404-ND	88.26	63.04	52.33	1721017-30
2	Type A - DVI(18+1)	26	30	10.6	11.7	Q405-ND	88.26	63.04	52.33	1721019-30

.050" (1.27mm) Flat Flex Cable Assemblies

.050 (1.27mm) Flat Flex Cable Material: • Insulation: Flame retardant polyester film **Performance Characteristics:** • Current Rating: 1.5 amperes (30AWG equivalent) • Voltage Rating: 300 volts • Temperature Rating: -20°C ~ 105°C • Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1 • Dielectric Strength: 2500V/MIL

Solder Tab to Solder Tab

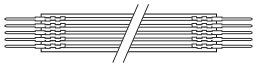

No. of Contacts	Length In. (mm)	Digi-Key Part No.	Pricing 1	10	100
4	2 (50.80)	A9AAT-0402E-ND	.83	6.73	49.56
	3 (76.20)	A9AAT-0403E-ND	.97	7.87	57.96
	4 (101.60)	A9AAT-0404E-ND	1.11	9.01	66.36
	5 (127.00)	A9AAT-0405E-ND	1.25	10.15	74.76
	6 (152.40)	A9AAT-0406E-ND	1.39	11.29	83.16
	8 (203.20)	A9AAT-0408E-ND	1.67	13.57	99.96
5	2 (50.80)	A9AAT-0502E-ND	.97	7.89	58.17
	3 (76.20)	A9AAT-0503E-ND	1.11	9.06	66.78
	4 (101.60)	A9AAT-0504E-ND	1.26	10.23	75.39
	5 (127.00)	A9AAT-0505E-ND	1.40	11.40	84.00
	6 (152.40)	A9AAT-0506E-ND	1.54	12.57	92.61
	8 (203.20)	A9AAT-0508E-ND	1.83	14.91	109.83
6	2 (50.80)	A9AAT-0602E-ND	1.11	9.06	66.78
	3 (76.20)	A9AAT-0603E-ND	1.26	10.26	75.60
	4 (101.60)	A9AAT-0604E-ND	1.41	11.46	84.42
	5 (127.00)	A9AAT-0605E-ND	1.55	12.65	93.24
	6 (152.40)	A9AAT-0606E-ND	1.70	13.85	102.06
	8 (203.20)	A9AAT-0608E-ND	2.00	16.25	119.70
7	2 (50.80)	A9AAT-0702E-ND	1.26	10.23	75.39
	3 (76.20)	A9AAT-0703E-ND	1.41	11.46	84.42
	4 (101.60)	A9AAT-0704E-ND	1.56	12.68	93.45
	5 (127.00)	A9AAT-0705E-ND	1.71	13.91	102.48
	6 (152.40)	A9AAT-0706E-ND	1.86	15.13	111.51
	8 (203.20)	A9AAT-0708E-ND	2.16	17.58	129.57
8	2 (50.80)	A9AAT-0802E-ND	1.40	11.40	84.00
	3 (76.20)	A9AAT-0803E-ND	1.55	12.65	93.24
	4 (101.60)	A9AAT-0804E-ND	1.71	13.91	102.48
	5 (127.00)	A9AAT-0805E-ND	1.86	15.16	111.72
	6 (152.40)	A9AAT-0806E-ND	2.02	16.42	120.96
	8 (203.20)	A9AAT-0808E-ND	2.32	18.92	139.44
10	2 (50.80)	A9AAT-1002E-ND	1.69	13.74	101.22
	3 (76.20)	A9AAT-1003E-ND	1.85	15.05	110.88
	4 (101.60)	A9AAT-1004E-ND	2.01	16.36	120.54
	5 (127.00)	A9AAT-1005E-ND	2.17	17.67	130.20
	6 (152.40)	A9AAT-1006E-ND	2.33	18.98	139.86
	8 (203.20)	A9AAT-1008E-ND	2.65	21.60	159.18
12	2 (50.80)	A9AAT-1202E-ND	1.98	16.13	118.86
	3 (76.20)	A9AAT-1203E-ND	2.15	17.53	129.15
	4 (101.60)	A9AAT-1204E-ND	2.32	18.92	139.44
	5 (127.00)	A9AAT-1205E-ND	2.50	20.32	149.73
	6 (152.40)	A9AAT-1206E-ND	2.67	21.72	160.02
	8 (203.20)	A9AAT-1208E-ND	3.01	24.51	180.60
17	2 (50.80)	A9AAT-1702E-ND	2.73	22.26	164.01
	3 (76.20)	A9AAT-1703E-ND	2.94	23.94	176.40
	4 (101.60)	A9AAT-1704E-ND	3.15	25.62	188.79
	5 (127.00)	A9AAT-1705E-ND	3.35	27.30	201.18
	6 (152.40)	A9AAT-1706E-ND	3.56	28.98	213.57
	8 (203.20)	A9AAT-1708E-ND	3.97	32.35	238.35
20	2 (50.80)	A9AAT-2002E-ND	3.21	26.11	192.36
	3 (76.20)	A9AAT-2003E-ND	3.44	28.04	206.64
	4 (101.60)	A9AAT-2004E-ND	3.68	29.98	220.92
	5 (127.00)	A9AAT-2005E-ND	3.92	31.92	235.20
	6 (152.40)	A9AAT-2006E-ND	4.16	33.86	249.48
	8 (203.20)	A9AAT-2008E-ND	4.63	37.73	278.04
22	2 (50.80)	A9AAT-2202E-ND	3.52	28.67	211.26
	3 (76.20)	A9AAT-2203E-ND	3.78	30.78	226.80
	4 (101.60)	A9AAT-2204E-ND	4.04	32.89	242.34
	5 (127.00)	A9AAT-2205E-ND	4.30	35.00	257.88
	6 (152.40)	A9AAT-2206E-ND	4.56	37.11	273.42
	8 (203.20)	A9AAT-2208E-ND	5.08	41.33	304.50
25	2 (50.80)	A9AAT-2502E-ND	4.02	32.72	241.08
	3 (76.20)	A9AAT-2503E-ND	4.32	35.17	259.14
	4 (101.60)	A9AAT-2504E-ND	4.62	37.62	277.20
	5 (127.00)	A9AAT-2505E-ND	4.92	40.07	295.26
	6 (152.40)	A9AAT-2506E-ND	5.22	42.52	313.32
	8 (203.20)	A9AAT-2508E-ND	5.82	47.42	349.44

Receptacle Housing to Solder Tab

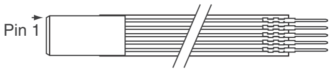

Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated 30μ gold on mating area.

No. of Contacts	Length In. (mm)	Digi-Key Part No.	Pricing 1	10	100
4	2 (50.80)	A9BAA-0402E-ND	2.57	20.89	153.93
	3 (76.20)	A9BAA-0403E-ND	2.71	22.03	162.33
	4 (101.60)	A9BAA-0404E-ND	2.85	23.17	170.73
	5 (127.00)	A9BAA-0405E-ND	2.99	24.31	179.13
	6 (152.40)	A9BAA-0406E-ND	3.13	25.45	187.53
	8 (203.20)	A9BAA-0408E-ND	3.41	27.73	204.33
5	2 (50.80)	A9BAA-0502E-ND	3.84	31.24	230.16
	3 (76.20)	A9BAA-0503E-ND	3.98	32.40	238.77
	4 (101.60)	A9BAA-0504E-ND	4.12	33.57	247.38
	5 (127.00)	A9BAA-0505E-ND	4.27	34.74	255.99
	6 (152.40)	A9BAA-0506E-ND	4.41	35.91	264.60
	8 (203.20)	A9BAA-0508E-ND	4.70	38.25	281.82
6	2 (50.80)	A9BAA-0602E-ND	5.06	41.21	303.66
	3 (76.20)	A9BAA-0603E-ND	5.21	42.41	312.48
	4 (101.60)	A9BAA-0604E-ND	5.36	43.61	321.30
	5 (127.00)	A9BAA-0605E-ND	5.50	44.80	330.12
	6 (152.40)	A9BAA-0606E-ND	5.65	46.00	338.94
	8 (203.20)	A9BAA-0608E-ND	5.94	48.39	356.58
7	2 (50.80)	A9BAA-0702E-ND	3.81	31.04	228.69
	3 (76.20)	A9BAA-0703E-ND	3.96	32.26	237.72
	4 (101.60)	A9BAA-0704E-ND	4.11	33.49	246.75
	5 (127.00)	A9BAA-0705E-ND	4.26	34.71	255.78
	6 (152.40)	A9BAA-0706E-ND	4.41	35.94	264.81
	8 (203.20)	A9BAA-0708E-ND	4.71	38.39	282.87
8	2 (50.80)	A9BAA-0802E-ND	4.35	35.40	260.82
	3 (76.20)	A9BAA-0803E-ND	4.50	36.65	270.06
	4 (101.60)	A9BAA-0804E-ND	4.66	37.91	279.30
	5 (127.00)	A9BAA-0805E-ND	4.81	39.16	288.54
	6 (152.40)	A9BAA-0806E-ND	4.96	40.41	297.78
	8 (203.20)	A9BAA-0808E-ND	5.27	42.92	316.26
10	2 (50.80)	A9BAA-1002E-ND	4.92	40.10	295.47
	3 (76.20)	A9BAA-1003E-ND	5.09	41.41	305.13
	4 (101.60)	A9BAA-1004E-ND	5.25	42.72	314.79
	5 (127.00)	A9BAA-1005E-ND	5.41	44.03	324.45
	6 (152.40)	A9BAA-1006E-ND	5.57	45.34	334.11
	8 (203.20)	A9BAA-1008E-ND	5.89	47.97	353.43
17	2 (50.80)	A9BAA-1702E-ND	10.69	87.04	641.34
	3 (76.20)	A9BAA-1703E-ND	10.90	88.72	653.73
	4 (101.60)	A9BAA-1704E-ND	11.10	90.40	666.12
	5 (127.00)	A9BAA-1705E-ND	11.31	92.08	678.51
	6 (152.40)	A9BAA-1706E-ND	11.52	93.77	690.90
	8 (203.20)	A9BAA-1708E-ND	11.93	97.13	715.68
20	2 (50.80)	A9BAA-2002E-ND	8.84	71.96	530.25
	3 (76.20)	A9BAA-2003E-ND	9.08	73.90	544.53
	4 (101.60)	A9BAA-2004E-ND	9.31	75.84	558.81
	5 (127.00)	A9BAA-2005E-ND	9.55	77.78	573.09
	6 (152.40)	A9BAA-2006E-ND	9.79	79.71	587.37
	8 (203.20)	A9BAA-2008E-ND	10.27	83.59	615.93
25	2 (50.80)	A9BAA-2502E-ND	10.97	89.29	657.93
	3 (76.20)	A9BAA-2503E-ND	11.27	91.74	675.99
	4 (101.60)	A9BAA-2504E-ND	11.57	94.19	694.05
	5 (127.00)	A9BAA-2505E-ND	11.87	96.64	712.11
	6 (152.40)	A9BAA-2506E-ND	12.17	99.09	730.17
	8 (203.20)	A9BAA-2508E-ND	12.77	104.00	766.29

Receptacle Housing with Latch to Solder Tab

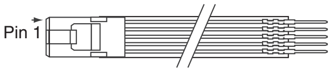

Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated 30μ gold on mating area.

No. of Contacts	Length In. (mm)	Digi-Key Part No.	Pricing 1	10	100
4	2 (50.80)	A9CAA-0402E-ND	2.38	19.35	142.59
	3 (76.20)	A9CAA-0403E-ND	2.52	20.49	150.99
	4 (101.60)	A9CAA-0404E-ND	2.66	21.63	159.39
	5 (127.00)	A9CAA-0405E-ND	2.80	22.77	167.79
	6 (152.40)	A9CAA-0406E-ND	2.94	23.91	176.19
	8 (203.20)	A9CAA-0408E-ND	3.22	26.19	192.99
5	2 (50.80)	A9CAA-0502E-ND	2.64	21.46	158.13
	3 (76.20)	A9CAA-0503E-ND	2.78	22.63	166.74
	4 (101.60)	A9CAA-0504E-ND	2.92	23.80	175.35
	5 (127.00)	A9CAA-0505E-ND	3.07	24.97	183.96
	6 (152.40)	A9CAA-0506E-ND	3.21	26.13	192.57
	8 (203.20)	A9CAA-0508E-ND	3.50	28.47	209.79
6	2 (50.80)	A9CAA-0602E-ND	2.89	23.54	173.46
	3 (76.20)	A9CAA-0603E-ND	3.04	24.74	182.28
	4 (101.60)	A9CAA-0604E-ND	3.19	25.94	191.10
	5 (127.00)	A9CAA-0605E-ND	3.33	27.13	199.92
	6 (152.40)	A9CAA-0606E-ND	3.48	28.33	208.74
	8 (203.20)	A9CAA-0608E-ND	3.77	30.72	226.38
8	2 (50.80)	A9CAA-0802E-ND	3.41	27.73	204.33
	3 (76.20)	A9CAA-0803E-ND	3.56	28.98	213.57
	4 (101.60)	A9CAA-0804E-ND	3.71	30.24	222.81
	5 (127.00)	A9CAA-0805E-ND	3.87	31.49	232.05
	6 (152.40)	A9CAA-0806E-ND	4.02	32.75	241.29
	8 (203.20)	A9CAA-0808E-ND	4.33	35.25	259.77
10	2 (50.80)	A9CAA-1002E-ND	3.93	32.01	235.83
	3 (76.20)	A9CAA-1003E-ND	4.09	33.32	245.49
	4 (101.60)	A9CAA-1004E-ND	4.25	34.63	255.15
	5 (127.00)	A9CAA-1005E-ND	4.41	35.94	264.81
	6 (152.40)	A9CAA-1006E-ND	4.57	37.25	274.47
	8 (203.20)	A9CAA-1008E-ND	4.90	39.87	293.79
12	2 (50.80)	A9CAA-1202E-ND	4.48	36.45	268.59
	3 (76.20)	A9CAA-1203E-ND	4.65	37.85	278.88
	4 (101.60)	A9CAA-1204E-ND	4.82	39.24	289.17
	5 (127.00)	A9CAA-1205E-ND	4.99	40.64	299.46
	6 (152.40)	A9CAA-1206E-ND	5.16	42.04	309.75
	8 (203.20)	A9CAA-1208E-ND	5.51	44.83	330.33
17	2 (50.80)	A9CAA-1702E-ND	8.47	68.97	508.20
	3 (76.20)	A9CAA-1703E-ND	8.68	70.65	520.59
	4 (101.60)	A9CAA-1704E-ND	8.88	72.33	532.98
	5 (127.00)	A9CAA-1705E-ND	9.09	74.01	545.37
	6 (152.40)	A9CAA-1706E-ND	9.30	75.70	557.76
	8 (203.20)	A9CAA-1708E-ND	9.71	79.06	582.54
20	2 (50.80)	A9CAA-2002E-ND	7.20	58.65	432.18
	3 (76.20)	A9CAA-2003E-ND	7.44	60.59	446.46
	4 (101.60)	A9CAA-2004E-ND	7.68	62.53	460.74
	5 (127.00)	A9CAA-2005E-ND	7.92	64.47	475.02
	6 (152.40)	A9CAA-2006E-ND	8.16	66.41	489.30
	8 (203.20)	A9CAA-2008E-ND	8.63	70.28	517.86
22	2 (50.80)	A9CAA-2202E-ND	10.32	84.05	619.29
	3 (76.20)	A9CAA-2203E-ND	10.58	86.16	634.83
	4 (101.60)	A9CAA-2204E-ND	10.84	88.26	650.37
	5 (127.00)	A9CAA-2205E-ND	11.10	90.37	665.91
	6 (152.40)	A9CAA-2206E-ND	11.36	92.48	681.45
	8 (203.20)	A9CAA-2208E-ND	11.88	96.70	712.53
25	2 (50.80)	A9CAA-2502E-ND	10.72	87.32	643.44
	3 (76.20)	A9CAA-2503E-ND	11.03	89.78	661.50
	4 (101.60)	A9CAA-2504E-ND	11.33	92.23	679.56
	5 (127.00)	A9CAA-2505E-ND	11.63	94.68	697.62
	6 (152.40)	A9CAA-2506E-ND	11.93	97.13	715.68
	8 (203.20)	A9CAA-2508E-ND	12.53	102.03	751.80

Receptacle Housing to Receptacle Housing

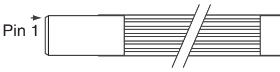

Plain Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts. 30μ gold on mating area.

No. of Contacts	Length In. (mm)	Digi-Key Part No.	Pricing 1	10	100
4	2 (50.80)	A9BBA-0402E-ND	4.31	35.06	258.30
	3 (76.20)	A9BBA-0403E-ND	4.45	36.20	266.70
	4 (101.60)	A9BBA-0404E-ND	4.59	37.34	275.10
	5 (127.00)	A9BBA-0405E-ND	4.73	38.48	283.50
	6 (152.40)	A9BBA-0406E-ND	4.87	39.62	291.90
	8 (203.20)	A9BBA-0408E-ND	5.15	41.90	308.70
5	2 (50.80)	A9BBA-0502E-ND	6.70	54.55	401.94
	3 (76.20)	A9BBA-0503E-ND	6.84	55.72	410.55
	4 (101.60)	A9BBA-0504E-ND	6.99	56.89	419.16
	5 (127.00)	A9BBA-0505E-ND	7.13	58.05	427.77
	6 (152.40)	A9BBA-0506E-ND	7.27	59.22	436.38
	8 (203.20)	A9BBA-0508E-ND	7.56	61.56	453.60
6	2 (50.80)	A9BBA-0602E-ND	9.01	73.36	540.54
	3 (76.20)	A9BBA-0603E-ND	9.16	74.56	549.36
	4 (101.60)	A9BBA-0604E-ND	9.30	75.75	558.18
	5 (127.00)	A9BBA-0605E-ND	9.45	76.95	567.00
	6 (152.40)	A9BBA-0606E-ND	9.60	78.15	575.82
	8 (203.20)	A9BBA-0608E-ND	9.89	80.54	593.46
7	2 (50.80)	A9BBA-0702E-ND	6.37	51.84	381.99
	3 (76.20)	A9BBA-0703E-ND	6.52	53.07	391.02
	4 (101.60)	A9BBA-0704E-ND	6.67	54.29	400.05
	5 (127.00)	A9BBA-0705E-ND	6.82	55.52	409.08
	6 (152.40)	A9BBA-0706E-ND	6.97	56.74	418.11
	8 (203.20)	A9BBA-0708E-ND	7.27	59.19	436.17
8	2 (50.80)	A9BBA-0802E-ND	7.29	59.39	437.64
	3 (76.20)	A9BBA-0803E-ND	7.45	60.65	446.88
	4 (101.60)	A9BBA-0804E-ND	7.60	61.90	456.12
	5 (127.00)	A9BBA-0805E-ND	7.76	63.16	465.36
	6 (152.40)	A9BBA-0806E-ND	7.91	64.41	474.60
	8 (203.20)	A9BBA-0808E-ND	8.22	66.92	493.08
10	2 (50.80)	A9BBA-1002E-ND	8.16	66.43	489.51
	3 (76.20)	A9BBA-1003E-ND	8.32	67.74	499.17
	4 (101.60)	A9BBA-1004E-ND	8.48	69.06	508.83
	5 (127.00)	A9BBA-1005E-ND	8.64	70.37	518.49
	6 (152.40)	A9BBA-1006E-ND	8.80	71.68	528.15
	8 (203.20)	A9BBA-1008E-ND	9.12	74.30	547.47
17	2 (50.80)	A9BBA-1702E-ND	18.64	151.79	1118.46
	3 (76.20)	A9BBA-1703E-ND	18.85	153.47	1130.85
	4 (101.60)	A9BBA-1704E-ND	19.05	155.15	1143.24
	5 (127.00)	A9BBA-1705E-ND	19.26	156.84	1155.63
	6 (152.40)	A9BBA-1706E-ND	19.47	158.52	1168.02
	8 (203.20)	A9BBA-1708E-ND	19.88	161.88	1192.80

(Continued)

.050" (1.27mm) Flat Flex Cable Assemblies *(Cont.)*

Receptacle Housing to Receptacle Housing

No. of Contacts	Length In. (mm)	Digi-Key Part No.	Pricing		
			1	10	100
20	2 (50.80)	A9BBA-2002E-ND	14.47	117.79	867.93
	3 (76.20)	A9BBA-2003E-ND	14.70	119.73	882.21
	4 (101.60)	A9BBA-2004E-ND	14.94	121.67	896.49
	5 (127.00)	A9BBA-2005E-ND	15.18	123.60	910.77
	6 (152.40)	A9BBA-2006E-ND	15.42	125.54	925.05
	8 (203.20)	A9BBA-2008E-ND	15.89	129.42	953.61
25	2 (50.80)	A9BBA-2502E-ND	17.91	145.86	1074.78
	3 (76.20)	A9BBA-2503E-ND	18.21	148.31	1092.84
	4 (101.60)	A9BBA-2504E-ND	18.52	150.77	1110.90
	5 (127.00)	A9BBA-2505E-ND	18.82	153.22	1128.96
	6 (152.40)	A9BBA-2506E-ND	19.12	155.67	1147.02
	8 (203.20)	A9BBA-2508E-ND	19.72	160.57	1183.14

Receptacle Housing with Latch to Receptacle Housing with Latch

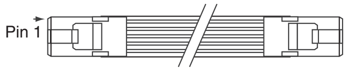

Latch Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts. 30μ gold on mating area.

No. of Contacts	Length In. (mm)	Digi-Key Part No.	Pricing		
			1	10	100
4	2 (50.80)	A9CCA-0402E-ND	3.92	31.95	235.41
	3 (76.20)	A9CCA-0403E-ND	4.06	33.09	243.81
	4 (101.60)	A9CCA-0404E-ND	4.20	34.23	252.21
	5 (127.00)	A9CCA-0405E-ND	4.34	35.37	260.61
	6 (152.40)	A9CCA-0406E-ND	4.48	36.51	269.01
	8 (203.20)	A9CCA-0408E-ND	4.76	38.79	285.81
5	2 (50.80)	A9CCA-0502E-ND	4.30	35.00	257.88
	3 (76.20)	A9CCA-0503E-ND	4.44	36.17	266.49
	4 (101.60)	A9CCA-0504E-ND	4.59	37.34	275.10
	5 (127.00)	A9CCA-0505E-ND	4.73	38.50	283.71
	6 (152.40)	A9CCA-0506E-ND	4.87	39.67	292.32
	8 (203.20)	A9CCA-0508E-ND	5.16	42.01	309.54
6	2 (50.80)	A9CCA-0602E-ND	4.67	37.99	279.93
	3 (76.20)	A9CCA-0603E-ND	4.81	39.19	288.75
	4 (101.60)	A9CCA-0604E-ND	4.96	40.38	297.57
	5 (127.00)	A9CCA-0605E-ND	5.11	41.58	306.39
	6 (152.40)	A9CCA-0606E-ND	5.25	42.78	315.21
	8 (203.20)	A9CCA-0608E-ND	5.55	45.17	332.85
8	2 (50.80)	A9CCA-0802E-ND	5.41	44.06	324.66
	3 (76.20)	A9CCA-0803E-ND	5.57	45.32	333.90
	4 (101.60)	A9CCA-0804E-ND	5.72	46.57	343.14
	5 (127.00)	A9CCA-0805E-ND	5.87	47.82	352.38
	6 (152.40)	A9CCA-0806E-ND	6.03	49.08	361.62
	8 (203.20)	A9CCA-0808E-ND	6.34	51.59	380.10
10	2 (50.80)	A9CCA-1002E-ND	6.18	50.30	370.65
	3 (76.20)	A9CCA-1003E-ND	6.34	51.61	380.31
	4 (101.60)	A9CCA-1004E-ND	6.50	52.92	389.97
	5 (127.00)	A9CCA-1005E-ND	6.66	54.24	399.63
	6 (152.40)	A9CCA-1006E-ND	6.82	55.55	409.29
	8 (203.20)	A9CCA-1008E-ND	7.14	58.17	428.61
12	2 (50.80)	A9CCA-1202E-ND	6.97	56.77	418.32
	3 (76.20)	A9CCA-1203E-ND	7.14	58.17	428.61
	4 (101.60)	A9CCA-1204E-ND	7.32	59.57	438.90
	5 (127.00)	A9CCA-1205E-ND	7.49	60.96	449.19
	6 (152.40)	A9CCA-1206E-ND	7.66	62.36	459.48
	8 (203.20)	A9CCA-1208E-ND	8.00	65.15	480.06
17	2 (50.80)	A9CCA-1702E-ND	14.20	115.65	852.18
	3 (76.20)	A9CCA-1703E-ND	14.41	117.33	864.57
	4 (101.60)	A9CCA-1704E-ND	14.62	119.02	876.96
	5 (127.00)	A9CCA-1705E-ND	14.82	120.70	889.35
	6 (152.40)	A9CCA-1706E-ND	15.03	122.38	901.74
	8 (203.20)	A9CCA-1708E-ND	15.44	125.74	926.52
20	2 (50.80)	A9CCA-2002E-ND	11.20	91.20	672.00
	3 (76.20)	A9CCA-2003E-ND	11.44	93.14	686.28
	4 (101.60)	A9CCA-2004E-ND	11.68	95.08	700.56
	5 (127.00)	A9CCA-2005E-ND	11.91	97.01	714.84
	6 (152.40)	A9CCA-2006E-ND	12.15	98.95	729.12
	8 (203.20)	A9CCA-2008E-ND	12.63	102.83	757.68
22	2 (50.80)	A9CCA-2202E-ND	17.12	139.42	1027.32
	3 (76.20)	A9CCA-2203E-ND	17.38	141.53	1042.86
	4 (101.60)	A9CCA-2204E-ND	17.64	143.64	1058.40
	5 (127.00)	A9CCA-2205E-ND	17.90	145.75	1073.94
	6 (152.40)	A9CCA-2206E-ND	18.16	147.86	1089.48
	8 (203.20)	A9CCA-2208E-ND	18.68	152.08	1120.56
25	2 (50.80)	A9CCA-2502E-ND	17.43	141.96	1046.01
	3 (76.20)	A9CCA-2503E-ND	17.73	144.41	1064.07
	4 (101.60)	A9CCA-2504E-ND	18.04	146.86	1082.13
	5 (127.00)	A9CCA-2505E-ND	18.34	149.31	1100.19
	6 (152.40)	A9CCA-2506E-ND	18.64	151.76	1118.25
	8 (203.20)	A9CCA-2508E-ND	19.24	156.66	1154.37

.100" (2.54mm) Flat Flex Cable Assemblies

.100 (2.54mm) Flat Flex Cable Material: • Conductors: Un-plated copper per QQ-C-502 • Insulation: Flame retardant polyester film **Performance Characteristics:** • Current Rating: 2 amperes (28AWG equivalent) • Voltage Rating: 300 volts • Temperature Rating: -20°C ~ 105°C • Insulation Resistance: 5000 megohms (min.) • Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1

Solder Tab to Solder Tab

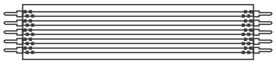

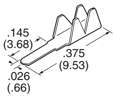

Solder Tab pin

No. of Contacts	Length In. (mm)	Digi-Key Part No.	Pricing		
			1	10	100
2	2 (50.80)	A9AAT-0202F-ND	.72	5.84	43.05
	3 (76.20)	A9AAT-0203F-ND	.83	6.78	49.98
	4 (101.60)	A9AAT-0204F-ND	.95	7.70	56.70
	5 (127.00)	A9AAT-0205F-ND	1.06	8.64	63.63
	6 (152.40)	A9AAT-0206F-ND	1.18	9.58	70.56
	8 (203.20)	A9AAT-0208F-ND	1.41	11.46	84.42
3	2 (50.80)	A9AAT-0302F-ND	.93	7.61	56.07
	3 (76.20)	A9AAT-0303F-ND	1.06	8.61	63.42
	4 (101.60)	A9AAT-0304F-ND	1.18	9.60	70.77
	5 (127.00)	A9AAT-0305F-ND	1.30	10.57	77.91
	6 (152.40)	A9AAT-0306F-ND	1.42	11.57	85.26
	8 (203.20)	A9AAT-0308F-ND	1.66	13.54	99.75
4	2 (50.80)	A9AAT-0402F-ND	1.13	9.21	67.83
	3 (76.20)	A9AAT-0403F-ND	1.26	10.23	75.39
	4 (101.60)	A9AAT-0404F-ND	1.38	11.26	82.95
	5 (127.00)	A9AAT-0405F-ND	1.51	12.28	90.51
	6 (152.40)	A9AAT-0406F-ND	1.63	13.31	98.07
	8 (203.20)	A9AAT-0408F-ND	1.89	15.36	113.19
5	2 (50.80)	A9AAT-0502F-ND	1.31	10.63	78.33
	3 (76.20)	A9AAT-0503F-ND	1.44	11.69	86.10
	4 (101.60)	A9AAT-0504F-ND	1.56	12.74	93.87
	5 (127.00)	A9AAT-0505F-ND	1.70	13.82	101.85
	6 (152.40)	A9AAT-0506F-ND	1.83	14.88	109.62
	8 (203.20)	A9AAT-0508F-ND	2.09	17.01	125.37
6	2 (50.80)	A9AAT-0602F-ND	1.48	12.06	88.83
	3 (76.20)	A9AAT-0603F-ND	1.63	13.25	97.65
	4 (101.60)	A9AAT-0604F-ND	1.77	14.45	106.47
	5 (127.00)	A9AAT-0605F-ND	1.92	15.65	115.29
	6 (152.40)	A9AAT-0606F-ND	2.07	16.84	124.11
	8 (203.20)	A9AAT-0608F-ND	2.36	19.21	141.54
8	2 (50.80)	A9AAT-0802F-ND	1.87	15.19	111.93
	3 (76.20)	A9AAT-0803F-ND	2.04	16.64	122.64
	4 (101.60)	A9AAT-0804F-ND	2.22	18.10	133.35
	5 (127.00)	A9AAT-0805F-ND	2.40	19.58	144.27
	6 (152.40)	A9AAT-0806F-ND	2.58	21.03	154.98
	8 (203.20)	A9AAT-0808F-ND	2.94	23.94	176.40
9	2 (50.80)	A9AAT-0902F-ND	2.05	16.73	123.27
	3 (76.20)	A9AAT-0903F-ND	2.28	18.55	136.71
	4 (101.60)	A9AAT-0904F-ND	2.50	20.38	150.15
	5 (127.00)	A9AAT-0905F-ND	2.73	22.20	163.59
	6 (152.40)	A9AAT-0906F-ND	2.95	24.03	177.03
	8 (203.20)	A9AAT-0908F-ND	3.40	27.67	203.91
10	2 (50.80)	A9AAT-1002F-ND	2.16	17.56	129.36
	3 (76.20)	A9AAT-1003F-ND	2.38	19.41	143.01
	4 (101.60)	A9AAT-1004F-ND	2.61	21.26	156.66
	5 (127.00)	A9AAT-1005F-ND	2.84	23.11	170.31
	6 (152.40)	A9AAT-1006F-ND	3.07	24.99	184.17
	8 (203.20)	A9AAT-1008F-ND	3.52	28.70	211.47
11	2 (50.80)	A9AAT-1102F-ND	2.25	18.33	135.03
	3 (76.20)	A9AAT-1103F-ND	2.48	20.21	148.89
	4 (101.60)	A9AAT-1104F-ND	2.72	22.12	162.96
	5 (127.00)	A9AAT-1105F-ND	2.95	24.03	177.03
	6 (152.40)	A9AAT-1106F-ND	3.18	25.91	190.89
	8 (203.20)	A9AAT-1108F-ND	3.65	29.70	218.82
12	2 (50.80)	A9AAT-1202F-ND	2.57	20.95	154.35
	3 (76.20)	A9AAT-1203F-ND	2.88	23.48	173.04
	4 (101.60)	A9AAT-1204F-ND	3.20	26.05	191.94
	5 (127.00)	A9AAT-1205F-ND	3.51	28.61	210.84
	6 (152.40)	A9AAT-1206F-ND	3.83	31.15	229.53
	8 (203.20)	A9AAT-1208F-ND	4.45	36.25	267.12
13	2 (50.80)	A9AAT-1302F-ND	2.74	22.34	164.64
	3 (76.20)	A9AAT-1303F-ND	3.06	24.94	183.75
	4 (101.60)	A9AAT-1304F-ND	3.38	27.53	202.86
	5 (127.00)	A9AAT-1305F-ND	3.70	30.12	221.97
	6 (152.40)	A9AAT-1306F-ND	4.02	32.72	241.08
	8 (203.20)	A9AAT-1308F-ND	4.65	37.88	279.09
14	2 (50.80)	A9AAT-1402F-ND	2.92	23.74	174.93
	3 (76.20)	A9AAT-1403F-ND	3.24	26.36	194.25
	4 (101.60)	A9AAT-1404F-ND	3.56	28.98	213.57
	5 (127.00)	A9AAT-1405F-ND	3.89	31.64	233.10
	6 (152.40)	A9AAT-1406F-ND	4.21	34.26	252.42
	8 (203.20)	A9AAT-1408F-ND	4.85	39.50	291.06
15	2 (50.80)	A9AAT-1502F-ND	3.09	25.17	185.43
	3 (76.20)	A9AAT-1503F-ND	3.42	27.84	205.17
	4 (101.60)	A9AAT-1504F-ND	3.75	30.52	224.91
	5 (127.00)	A9AAT-1505F-ND	4.08	33.20	244.65
	6 (152.40)	A9AAT-1506F-ND	4.41	35.88	264.39
	8 (203.20)	A9AAT-1508F-ND	5.06	41.24	303.87
16	2 (50.80)	A9AAT-1602F-ND	3.26	26.56	195.72
	3 (76.20)	A9AAT-1603F-ND	3.59	29.27	215.67
	4 (101.60)	A9AAT-1604F-ND	3.93	32.01	235.83
	5 (127.00)	A9AAT-1605F-ND	4.26	34.71	255.78
	6 (152.40)	A9AAT-1606F-ND	4.60	37.45	275.94
	8 (203.20)	A9AAT-1608F-ND	5.26	42.86	315.84
18	2 (50.80)	A9AAT-1802F-ND	4.05	33.00	243.18
	3 (76.20)	A9AAT-1803F-ND	4.62	37.62	277.20
	4 (101.60)	A9AAT-1804F-ND	5.18	42.21	311.01
	5 (127.00)	A9AAT-1805F-ND	5.75	46.83	345.03
	6 (152.40)	A9AAT-1806F-ND	6.32	51.44	379.05
	8 (203.20)	A9AAT-1808F-ND	7.45	60.68	447.09
20	2 (50.80)	A9AAT-2002F-ND	4.40	35.82	263.97
	3 (76.20)	A9AAT-2003F-ND	4.98	40.53	298.62
	4 (101.60)	A9AAT-2004F-ND	5.55	45.23	333.27
	5 (127.00)	A9AAT-2005F-ND	6.13	49.93	367.92
	6 (152.40)	A9AAT-2006F-ND	6.71	54.66	402.78
	8 (203.20)	A9AAT-2008F-ND	7.87	64.07	472.08

Receptacle Housing to Solder Tab

Mates with single row .025 (.64mm) square pin, .100 (2.54mm) headers.

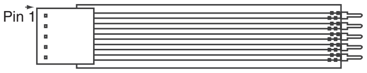

Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated

No. of Contacts	Length In. (mm)	Digi-Key Part No.	Pricing		
			1	10	100
2	2 (50.80)	A9BAG-0202F-ND	2.07	16.87	124.32
	3 (76.20)	A9BAG-0203F-ND	2.19	17.81	131.25
	4 (101.60)	A9BAG-0204F-ND	2.30	18.72	137.97
	5 (127.00)	A9BAG-0205F-ND	2.42	19.67	144.90
	6 (152.40)	A9BAG-0206F-ND	2.53	20.61	151.83
	8 (203.20)	A9BAG-0208F-ND	2.76	22.49	165.69
3	2 (50.80)	A9BAG-0302F-ND	2.34	19.07	140.49
	3 (76.20)	A9BAG-0303F-ND	2.46	20.04	147.63
	4 (101.60)	A9BAG-0304F-ND	2.58	21.03	154.98
	5 (127.00)	A9BAG-0305F-ND	2.71	22.03	162.33
	6 (152.40)	A9BAG-0306F-ND	2.82	23.00	169.47
	8 (203.20)	A9BAG-0308F-ND	3.07	24.99	184.17
4	2 (50.80)	A9BAG-0402F-ND	2.60	21.18	156.03
	3 (76.20)	A9BAG-0403F-ND	2.73	22.20	163.59
	4 (101.60)	A9BAG-0404F-ND	2.85	23.23	171.15
	5 (127.00)	A9BAG-0405F-ND	2.98	24.25	178.71
	6 (152.40)	A9BAG-0406F-ND	3.10	25.28	186.27
	8 (203.20)	A9BAG-0408F-ND	3.36	27.33	201.39
5	2 (50.80)	A9BAG-0502F-ND	2.85	23.17	170.73
	3 (76.20)	A9BAG-0503F-ND	2.98	24.23	178.50
	4 (101.60)	A9BAG-0504F-ND	3.10	25.28	186.27
	5 (127.00)	A9BAG-0505F-ND	3.24	26.36	194.25
	6 (152.40)	A9BAG-0506F-ND	3.37	27.42	202.02
	8 (203.20)	A9BAG-0508F-ND	3.63	29.55	217.77
6	2 (50.80)	A9BAG-0602F-ND	3.10	25.25	186.06
	3 (76.20)	A9BAG-0603F-ND	3.25	26.45	194.88
	4 (101.60)	A9BAG-0604F-ND	3.39	27.62	203.49
	5 (127.00)	A9BAG-0605F-ND	3.54	28.81	212.31
	6 (152.40)	A9BAG-0606F-ND	3.69	30.01	221.13
	8 (203.20)	A9BAG-0608F-ND	3.98	32.40	238.77
8	2 (50.80)	A9BAG-0802F-ND	3.63	29.58	217.98
	3 (76.20)	A9BAG-0803F-ND	3.81	31.04	228.69
	4 (101.60)	A9BAG-0804F-ND	3.99	32.52	239.61
	5 (127.00)	A9BAG-0805F-ND	4.17	33.97	250.32
	6 (152.40)	A9BAG-0806F-ND	4.35	35.43	261.03
	8 (203.20)	A9BAG-0808F-ND	4.71	38.36	282.66
9	2 (50.80)	A9BAG-0902F-ND	3.94	32.09	236.46
	3 (76.20)	A9BAG-0903F-ND	4.17	33.92	249.90
	4 (101.60)	A9BAG-0904F-ND	4.39	35.74	263.34
	5 (127.00)	A9BAG-0905F-ND	4.61	37.56	276.78
	6 (152.40)	A9BAG-0906F-ND	4.84	39.39	290.22
	8 (203.20)	A9BAG-0908F-ND	5.29	43.04	317.10
10	2 (50.80)	A9BAG-1002F-ND	4.15	33.80	249.06
	3 (76.20)	A9BAG-1003F-ND	4.38	35.65	262.71
	4 (101.60)	A9BAG-1004F-ND	4.61	37.51	276.36
	5 (127.00)	A9BAG-1005F-ND	4.83	39.36	290.01
	6 (152.40)	A9BAG-1006F-ND	5.06	41.24	303.87
	8 (203.20)	A9BAG-1008F-ND	5.52	44.94	331.17
11	2 (50.80)	A9BAG-1102F-ND	4.36	35.48	261.45
	3 (76.20)	A9BAG-1103F-ND	4.59	37.36	275.31
	4 (101.60)	A9BAG-1104F-ND	4.82	39.27	289.38
	5 (127.00)	A9BAG-1105F-ND	5.05	41.15	303.24
	6 (152.40)	A9BAG-1106F-ND	5.29	43.06	317.31
	8 (203.20)	A9BAG-1108F-ND	5.75	46.85	345.24
12	2 (50.80)	A9BAG-1202F-ND	4.11	33.46	246.54
	3 (76.20)	A9BAG-1203F-ND	4.42	36.02	265.44
	4 (101.60)	A9BAG-1204F-ND	4.74	38.56	284.13
	5 (127.00)	A9BAG-1205F-ND	5.05	41.13	303.03
	6 (152.40)	A9BAG-1206F-ND	5.36	43.66	321.72
	8 (203.20)	A9BAG-1208F-ND	5.99	48.76	359.31
13	2 (50.80)	A9BAG-1302F-ND	5.03	40.93	301.56
	3 (76.20)	A9BAG-1303F-ND	5.34	43.52	320.67
	4 (101.60)	A9BAG-1304F-ND	5.66	46.11	339.78
	5 (127.00)	A9BAG-1305F-ND	5.98	48.71	358.89
	6 (152.40)	A9BAG-1306F-ND	6.30	51.30	378.00
	8 (203.20)	A9BAG-1308F-ND	6.93	56.46	416.01
14	2 (50.80)	A9BAG-1402F-ND	5.27	42.92	316.26
	3 (76.20)	A9BAG-1403F-ND	5.59	45.54	335.58
	4 (101.60)	A9BAG-1404F-ND	5.92	48.17	354.90
	5 (127.00)	A9BAG-1405F-ND	6.24	50.79	374.22
	6 (152.40)	A9BAG-1406F-ND	6.56	53.44	393.75
	8 (203.20)	A9BAG-1408F-ND	7.21	58.68	432.39
15	2 (50.80)	A9BAG-1502F-ND	6.20	50.50	372.12
	3 (76.20)	A9BAG-1503F-ND	6.53	53.21	392.07
	4 (101.60)	A9BAG-1504F-ND	6.86	55.89	411.81
	5 (127.00)	A9BAG-1505F-ND	7.19	58.57	431.55
	6 (152.40)	A9BAG-1506F-ND	7.52	61.25	451.29
	8 (203.20)	A9BAG-1508F-ND	8.18	66.60	490.77
16	2 (50.80)	A9BAG-1602F-ND	6.10	49.65	365.82
	3 (76.20)	A9BAG-1603F-ND	6.43	52.38	385.98
	4 (101.60)	A9BAG-1604F-ND	6.77	55.09	405.93
	5 (127.00)	A9BAG-1605F-ND	7.10	57.83	426.09
	6 (152.40)	A9BAG-1606F-ND	7.43	60.53	446.04
	8 (203.20)	A9BAG-1608F-ND	8.10	65.98	486.15
18	2 (50.80)	A9BAG-1802F-ND	7.73	62.96	463.89
	3 (76.20)	A9BAG-1803F-ND	8.30	67.55	497.70
	4 (101.60)	A9BAG-1804F-ND	8.86	72.16	531.72
	5 (127.00)	A9BAG-1805F-ND	9.43	76.78	565.74
	6 (152.40)	A9BAG-1806F-ND	10.00	81.40	599.76
	8 (203.20)	A9BAG-1808F-ND	11.13	90.63	667.80
20	2 (50.80)	A9BAG-2002F-ND	7.89	64.21	473.13
	3 (76.20)	A9BAG-2003F-ND	8.46	68.91	507.78
	4 (101.60)	A9BAG-2004F-ND	9.04	73.62	542.43
	5 (127.00)	A9BAG-2005F-ND	9.62	78.32	577.08
	6 (152.40)	A9BAG-2006F-ND	10.20	83.05	611.94
	8 (203.20)	A9BAG-2008F-ND	11.35	92.45	681.24

A9BAG-□□□□F-ND = 15μ gold or 30μ gold on mating area;
A9BAA-□□□□F-ND = 30μ gold

Call for complete part number and pricing. *(Continued)*

.100" (2.54mm) Flat Flex Cable Assemblies *(Cont.)*

Receptacle Housing to Receptacle Housing

Mates with single row .025 (.64mm) square pin, .100 (2.54mm) headers.

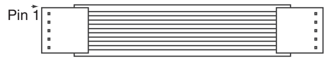

Plain Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.

No. of Contacts	Length In. (mm)	Digi-Key Part No.	Pricing		
			1	10	100
2	2 (50.80)	A9BBG-0202F-ND	3.43	27.90	205.59
	3 (76.20)	A9BBG-0203F-ND	3.54	28.84	212.52
	4 (101.60)	A9BBG-0204F-ND	3.65	29.75	219.24
	5 (127.00)	A9BBG-0205F-ND	3.77	30.69	226.17
	6 (152.40)	A9BBG-0206F-ND	3.89	31.64	233.10
	8 (203.20)	A9BBG-0208F-ND	4.12	33.52	246.96
3	2 (50.80)	A9BBG-0302F-ND	3.75	30.50	224.70
	3 (76.20)	A9BBG-0303F-ND	3.87	31.49	232.05
	4 (101.60)	A9BBG-0304F-ND	3.99	32.46	239.19
	5 (127.00)	A9BBG-0305F-ND	4.11	33.46	246.54
	6 (152.40)	A9BBG-0306F-ND	4.23	34.46	253.89
	8 (203.20)	A9BBG-0308F-ND	4.47	36.42	268.38
4	2 (50.80)	A9BBG-0402F-ND	4.07	33.15	244.23
	3 (76.20)	A9BBG-0403F-ND	4.20	34.17	251.79
	4 (101.60)	A9BBG-0404F-ND	4.32	35.20	259.35
	5 (127.00)	A9BBG-0405F-ND	4.45	36.22	266.91
	6 (152.40)	A9BBG-0406F-ND	4.57	37.25	274.47
	8 (203.20)	A9BBG-0408F-ND	4.83	39.30	289.59
5	2 (50.80)	A9BBG-0502F-ND	4.39	35.71	263.13
	3 (76.20)	A9BBG-0503F-ND	4.52	36.77	270.90
	4 (101.60)	A9BBG-0504F-ND	4.64	37.82	278.67
	5 (127.00)	A9BBG-0505F-ND	4.78	38.90	286.65
	6 (152.40)	A9BBG-0506F-ND	4.91	39.96	294.42
	8 (203.20)	A9BBG-0508F-ND	5.17	42.09	310.17
6	2 (50.80)	A9BBG-0602F-ND	4.72	38.42	283.08
	3 (76.20)	A9BBG-0603F-ND	4.87	39.62	291.90
	4 (101.60)	A9BBG-0604F-ND	5.01	40.81	300.72
	5 (127.00)	A9BBG-0605F-ND	5.16	42.01	309.54
	6 (152.40)	A9BBG-0606F-ND	5.31	43.21	318.36
	8 (203.20)	A9BBG-0608F-ND	5.60	45.57	335.79
8	2 (50.80)	A9BBG-0802F-ND	5.40	43.98	324.03
	3 (76.20)	A9BBG-0803F-ND	5.58	45.46	334.95
	4 (101.60)	A9BBG-0804F-ND	5.76	46.91	345.66
	5 (127.00)	A9BBG-0805F-ND	5.94	48.36	356.37
	6 (152.40)	A9BBG-0806F-ND	6.12	49.85	367.29
	8 (203.20)	A9BBG-0808F-ND	6.48	52.75	388.71
9	2 (50.80)	A9BBG-0902F-ND	5.83	47.45	349.65
	3 (76.20)	A9BBG-0903F-ND	6.05	49.28	363.09
	4 (101.60)	A9BBG-0904F-ND	6.28	51.10	376.53
	5 (127.00)	A9BBG-0905F-ND	6.50	52.92	389.97
	6 (152.40)	A9BBG-0906F-ND	6.72	54.75	403.41
	8 (203.20)	A9BBG-0908F-ND	7.17	58.37	430.08
10	2 (50.80)	A9BBG-1002F-ND	6.14	50.02	368.55
	3 (76.20)	A9BBG-1003F-ND	6.37	51.90	382.41
	4 (101.60)	A9BBG-1004F-ND	6.60	53.75	396.06
	5 (127.00)	A9BBG-1005F-ND	6.83	55.60	409.71
	6 (152.40)	A9BBG-1006F-ND	7.06	57.46	423.36
	8 (203.20)	A9BBG-1008F-ND	7.51	61.19	450.87
11	2 (50.80)	A9BBG-1102F-ND	6.46	52.64	387.87
	3 (76.20)	A9BBG-1103F-ND	6.70	54.52	401.73
	4 (101.60)	A9BBG-1104F-ND	6.93	56.43	415.80
	5 (127.00)	A9BBG-1105F-ND	7.16	58.31	429.66
	6 (152.40)	A9BBG-1106F-ND	7.40	60.22	443.73
	8 (203.20)	A9BBG-1108F-ND	7.86	64.01	471.66
12	2 (50.80)	A9BBG-1202F-ND	5.65	45.97	338.73
	3 (76.20)	A9BBG-1203F-ND	5.96	48.54	357.63
	4 (101.60)	A9BBG-1204F-ND	6.27	51.07	376.32
	5 (127.00)	A9BBG-1205F-ND	6.59	53.64	395.22
	6 (152.40)	A9BBG-1206F-ND	6.90	56.17	413.91
	8 (203.20)	A9BBG-1208F-ND	7.53	61.28	451.50
13	2 (50.80)	A9BBG-1302F-ND	7.31	59.51	438.48
	3 (76.20)	A9BBG-1303F-ND	7.63	62.10	457.59
	4 (101.60)	A9BBG-1304F-ND	7.95	64.70	476.70
	5 (127.00)	A9BBG-1305F-ND	8.26	67.29	495.81
	6 (152.40)	A9BBG-1306F-ND	8.58	69.85	514.71
	8 (203.20)	A9BBG-1308F-ND	9.22	75.04	552.93
14	2 (50.80)	A9BBG-1402F-ND	7.62	62.07	457.38
	3 (76.20)	A9BBG-1403F-ND	7.95	64.72	476.91
	4 (101.60)	A9BBG-1404F-ND	8.27	67.35	496.23
	5 (127.00)	A9BBG-1405F-ND	8.59	69.97	515.55
	6 (152.40)	A9BBG-1406F-ND	8.91	72.59	534.87
	8 (203.20)	A9BBG-1408F-ND	9.56	77.86	573.72
15	2 (50.80)	A9BBG-1502F-ND	9.32	75.87	559.02
	3 (76.20)	A9BBG-1503F-ND	9.65	78.55	578.76
	4 (101.60)	A9BBG-1504F-ND	9.98	81.23	598.50
	5 (127.00)	A9BBG-1505F-ND	10.30	83.90	618.24
	6 (152.40)	A9BBG-1506F-ND	10.63	86.58	637.98
	8 (203.20)	A9BBG-1508F-ND	11.29	91.94	677.46
16	2 (50.80)	A9BBG-1602F-ND	8.94	72.76	536.13
	3 (76.20)	A9BBG-1603F-ND	9.27	75.47	556.08
	4 (101.60)	A9BBG-1604F-ND	9.60	78.20	576.24
	5 (127.00)	A9BBG-1605F-ND	9.94	80.91	596.19
	6 (152.40)	A9BBG-1606F-ND	10.27	83.65	616.35
	8 (203.20)	A9BBG-1608F-ND	10.94	89.06	656.25
18	2 (50.80)	A9BBG-1802F-ND	11.41	92.88	684.39
	3 (76.20)	A9BBG-1803F-ND	11.97	97.50	718.41
	4 (101.60)	A9BBG-1804F-ND	12.54	102.12	752.43
	5 (127.00)	A9BBG-1805F-ND	13.11	106.73	786.45
	6 (152.40)	A9BBG-1806F-ND	13.67	111.35	820.47
	8 (203.20)	A9BBG-1808F-ND	14.81	120.58	888.51
20	2 (50.80)	A9BBG-2002F-ND	11.37	92.60	682.29
	3 (76.20)	A9BBG-2003F-ND	11.95	97.30	716.94
	4 (101.60)	A9BBG-2004F-ND	12.53	102.00	751.59
	5 (127.00)	A9BBG-2005F-ND	13.10	106.70	786.24
	6 (152.40)	A9BBG-2006F-ND	13.69	111.44	821.10
	8 (203.20)	A9BBG-2008F-ND	14.84	120.84	890.40

A9BBG-□□□□F-ND = 15µ gold; A9BBA-□□□□F-ND = 30µ gold

Call for complete part number and pricing.

Receptacle Housing with Latch to Solder Tab

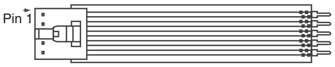

Latch Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.

No. of Contacts	Length In. (mm)	Digi-Key Part No.	Pricing		
			1	10	100
2	2 (50.80)	A9CAG-0202F-ND	1.89	15.36	113.19
	3 (76.20)	A9CAG-0203F-ND	2.00	16.30	120.12
	4 (101.60)	A9CAG-0204F-ND	2.12	17.24	127.05
	5 (127.00)	A9CAG-0205F-ND	2.23	18.18	133.98
	6 (152.40)	A9CAG-0206F-ND	2.35	19.12	140.91
	8 (203.20)	A9CAG-0208F-ND	2.58	20.98	154.56
3	2 (50.80)	A9CAG-0302F-ND	2.25	18.35	135.24
	3 (76.20)	A9CAG-0303F-ND	2.38	19.35	142.59
	4 (101.60)	A9CAG-0304F-ND	2.50	20.32	149.73
	5 (127.00)	A9CAG-0305F-ND	2.62	21.32	157.08
	6 (152.40)	A9CAG-0306F-ND	2.74	22.32	164.43
	8 (203.20)	A9CAG-0308F-ND	2.98	24.28	178.92
4	2 (50.80)	A9CAG-0402F-ND	2.61	21.23	156.45
	3 (76.20)	A9CAG-0403F-ND	2.73	22.26	164.01
	4 (101.60)	A9CAG-0404F-ND	2.86	23.28	171.57
	5 (127.00)	A9CAG-0405F-ND	2.99	24.31	179.13
	6 (152.40)	A9CAG-0406F-ND	3.11	25.34	186.69
	8 (203.20)	A9CAG-0408F-ND	3.36	27.39	201.81
5	2 (50.80)	A9CAG-0502F-ND	2.95	24.05	177.24
	3 (76.20)	A9CAG-0503F-ND	3.08	25.11	185.01
	4 (101.60)	A9CAG-0504F-ND	3.21	26.16	192.78
	5 (127.00)	A9CAG-0505F-ND	3.35	27.25	200.76
	6 (152.40)	A9CAG-0506F-ND	3.48	28.30	208.53
	8 (203.20)	A9CAG-0508F-ND	3.74	30.44	224.28
6	2 (50.80)	A9CAG-0602F-ND	3.31	26.93	198.45
	3 (76.20)	A9CAG-0603F-ND	3.45	28.13	207.27
	4 (101.60)	A9CAG-0604F-ND	3.60	29.33	216.09
	5 (127.00)	A9CAG-0605F-ND	3.75	30.50	224.70
	6 (152.40)	A9CAG-0606F-ND	3.89	31.69	233.52
	8 (203.20)	A9CAG-0608F-ND	4.19	34.09	251.16
8	2 (50.80)	A9CAG-0802F-ND	4.73	38.48	283.50
	3 (76.20)	A9CAG-0803F-ND	4.91	39.96	294.42
	4 (101.60)	A9CAG-0804F-ND	5.09	41.41	305.13
	5 (127.00)	A9CAG-0805F-ND	5.26	42.86	315.84
	6 (152.40)	A9CAG-0806F-ND	5.44	44.32	326.55
	8 (203.20)	A9CAG-0808F-ND	5.80	47.25	348.18
9	2 (50.80)	A9CAG-0902F-ND	4.44	36.14	266.28
	3 (76.20)	A9CAG-0903F-ND	4.66	37.96	279.72
	4 (101.60)	A9CAG-0904F-ND	4.88	39.76	292.95
	5 (127.00)	A9CAG-0905F-ND	5.11	41.58	306.39
	6 (152.40)	A9CAG-0906F-ND	5.33	43.41	319.83
	8 (203.20)	A9CAG-0908F-ND	5.78	47.05	346.71
10	2 (50.80)	A9CAG-1002F-ND	4.74	38.62	284.55
	3 (76.20)	A9CAG-1003F-ND	4.97	40.47	298.20
	4 (101.60)	A9CAG-1004F-ND	5.20	42.32	311.85
	5 (127.00)	A9CAG-1005F-ND	5.43	44.20	325.71
	6 (152.40)	A9CAG-1006F-ND	5.66	46.06	339.36
	8 (203.20)	A9CAG-1008F-ND	6.11	49.76	366.66
11	2 (50.80)	A9CAG-1102F-ND	6.20	50.45	371.70
	3 (76.20)	A9CAG-1103F-ND	6.43	52.33	385.56
	4 (101.60)	A9CAG-1104F-ND	6.66	54.24	399.63
	5 (127.00)	A9CAG-1105F-ND	6.90	56.15	413.70
	6 (152.40)	A9CAG-1106F-ND	7.13	58.03	427.56
	8 (203.20)	A9CAG-1108F-ND	7.59	61.82	455.49
12	2 (50.80)	A9CAG-1202F-ND	5.56	45.26	333.48
	3 (76.20)	A9CAG-1203F-ND	5.87	47.79	352.17
	4 (101.60)	A9CAG-1204F-ND	6.18	50.36	371.07
	5 (127.00)	A9CAG-1205F-ND	6.50	52.90	389.76
	6 (152.40)	A9CAG-1206F-ND	6.81	55.46	408.66
	8 (203.20)	A9CAG-1208F-ND	7.44	60.56	446.25
13	2 (50.80)	A9CAG-1302F-ND	7.12	57.94	426.93
	3 (76.20)	A9CAG-1303F-ND	7.43	60.53	446.04
	4 (101.60)	A9CAG-1304F-ND	7.75	63.13	465.15
	5 (127.00)	A9CAG-1305F-ND	8.07	65.72	484.26
	6 (152.40)	A9CAG-1306F-ND	8.39	68.31	503.37
	8 (203.20)	A9CAG-1308F-ND	9.03	73.50	541.59
14	2 (50.80)	A9CAG-1402F-ND	6.24	50.84	374.64
	3 (76.20)	A9CAG-1403F-ND	6.57	53.47	393.96
	4 (101.60)	A9CAG-1404F-ND	6.89	56.09	413.28
	5 (127.00)	A9CAG-1405F-ND	7.21	58.74	432.81
	6 (152.40)	A9CAG-1406F-ND	7.54	61.36	452.13
	8 (203.20)	A9CAG-1408F-ND	8.18	66.60	490.77
15	2 (50.80)	A9CAG-1502F-ND	8.19	66.72	491.61
	3 (76.20)	A9CAG-1503F-ND	8.52	69.40	511.35
	4 (101.60)	A9CAG-1504F-ND	8.85	72.08	531.09
	5 (127.00)	A9CAG-1505F-ND	9.18	74.76	550.83
	6 (152.40)	A9CAG-1506F-ND	9.51	77.43	570.57
	8 (203.20)	A9CAG-1508F-ND	10.17	82.79	610.05
16	2 (50.80)	A9CAG-1602F-ND	7.17	58.37	430.08
	3 (76.20)	A9CAG-1603F-ND	7.50	61.10	450.24
	4 (101.60)	A9CAG-1604F-ND	7.84	63.81	470.19
	5 (127.00)	A9CAG-1605F-ND	8.17	66.52	490.14
	6 (152.40)	A9CAG-1606F-ND	8.51	69.26	510.30
	8 (203.20)	A9CAG-1608F-ND	9.17	74.70	550.41
18	2 (50.80)	A9CAG-1802F-ND	9.96	81.11	597.66
	3 (76.20)	A9CAG-1803F-ND	10.53	85.73	631.68
	4 (101.60)	A9CAG-1804F-ND	11.09	90.32	665.49
	5 (127.00)	A9CAG-1805F-ND	11.66	94.93	699.51
	6 (152.40)	A9CAG-1806F-ND	12.23	99.55	733.53
	8 (203.20)	A9CAG-1808F-ND	13.36	108.78	801.57
20	2 (50.80)	A9CAG-2002F-ND	9.24	75.24	554.40
	3 (76.20)	A9CAG-2003F-ND	9.82	79.94	589.05
	4 (101.60)	A9CAG-2004F-ND	10.40	84.65	623.70
	5 (127.00)	A9CAG-2005F-ND	10.98	89.38	658.56
	6 (152.40)	A9CAG-2006F-ND	11.55	94.08	693.21
	8 (203.20)	A9CAG-2008F-ND	12.71	103.48	762.51

A9CAG-□□□□F-ND = 15µ gold; A9CAA-□□□□F-ND = 30µ gold

Call for complete part number and pricing.

Receptacle Housing with Latch to Receptacle Housing with Latch

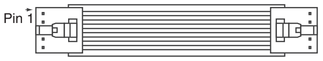

Latch Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.

No. of Contacts	Length In. (mm)	Digi-Key Part No.	Pricing		
			1	10	100
2	2 (50.80)	A9CCG-0202F-ND	3.06	24.91	183.54
	3 (76.20)	A9CCG-0203F-ND	3.17	25.85	190.47
	4 (101.60)	A9CCG-0204F-ND	3.29	26.79	197.40
	5 (127.00)	A9CCG-0205F-ND	3.40	27.70	204.12
	6 (152.40)	A9CCG-0206F-ND	3.52	28.64	211.05
	8 (203.20)	A9CCG-0208F-ND	3.75	30.52	224.91
3	2 (50.80)	A9CCG-0302F-ND	3.57	29.10	214.41
	3 (76.20)	A9CCG-0303F-ND	3.70	30.10	221.76
	4 (101.60)	A9CCG-0304F-ND	3.82	31.07	228.90
	5 (127.00)	A9CCG-0305F-ND	3.94	32.06	236.25
	6 (152.40)	A9CCG-0306F-ND	4.06	33.06	243.60
	8 (203.20)	A9CCG-0308F-ND	4.30	35.03	258.09
4	2 (50.80)	A9CCG-0402F-ND	4.08	33.26	245.07
	3 (76.20)	A9CCG-0403F-ND	4.21	34.29	252.63
	4 (101.60)	A9CCG-0404F-ND	4.34	35.31	260.19
	5 (127.00)	A9CCG-0405F-ND	4.46	36.34	267.75
	6 (152.40)	A9CCG-0406F-ND	4.59	37.36	275.31
	8 (203.20)	A9CCG-0408F-ND	4.84	39.42	290.43
5	2 (50.80)	A9CCG-0502F-ND	4.60	37.48	276.15
	3 (76.20)	A9CCG-0503F-ND	4.73	38.53	283.92
	4 (101.60)	A9CCG-0504F-ND	4.86	39.59	291.69
	5 (127.00)	A9CCG-0505F-ND	4.99	40.67	299.67
	6 (152.40)	A9CCG-0506F-ND	5.12	41.72	307.44
	8 (203.20)	A9CCG-0508F-ND	5.39	43.86	323.19
6	2 (50.80)	A9CCG-0602F-ND	5.13	41.78	307.86
	3 (76.20)	A9CCG-0603F-ND	5.28	42.98	316.68
	4 (101.60)	A9CCG-0604F-ND	5.43	44.18	325.50
	5 (127.00)	A9CCG-0605F-ND	5.57	45.37	334.32
	6 (152.40)	A9CCG-0606F-ND	5.72	46.57	343.14
	8 (203.20)	A9CCG-0608F-ND	6.01	48.96	360.78
8	2 (50.80)	A9CCG-0802F-ND	7.59	61.79	455.28
	3 (76.20)	A9CCG-0803F-ND	7.77	63.24	465.99
	4 (101.60)	A9CCG-0804F-ND	7.95	64.70	476.70
	5 (127.00)	A9CCG-0805F-ND	8.13	66.18	487.62
	6 (152.40)	A9CCG-0806F-ND	8.31	67.63	498.33
	8 (203.20)	A9CCG-0808F-ND	8.67	70.57	519.96
9	2 (50.80)	A9CCG-0902F-ND	6.82	55.52	409.08
	3 (76.20)	A9CCG-0903F-ND	7.04	57.34	422.52
	4 (101.60)	A9CCG-0904F-ND	7.27	59.17	435.96
	5 (127.00)	A9CCG-0905F-ND	7.49	60.96	449.19
	6 (152.40)	A9CCG-0906F-ND	7.71	62.79	462.63
	8 (203.20)	A9CCG-0908F-ND	8.16	66.43	489.51
10	2 (50.80)	A9CCG-1002F-ND	7.33	59.68	439.74
	3 (76.20)	A9CCG-1003F-ND	7.56	61.53	453.39
	4 (101.60)	A9CCG-1004F-ND	7.79	63.41	467.25
	5 (127.00)	A9CCG-1005F-ND	8.02	65.27	480.90
	6 (152.40)	A9CCG-1006F-ND	8.24	67.12	494.55
	8 (203.20)	A9CCG-1008F-ND	8.70	70.85	522.06
11	2 (50.80)	A9CCG-1102F-ND	10.14	82.56	608.37
	3 (76.20)	A9CCG-1103F-ND	10.37	84.45	622.23
	4 (101.60)	A9CCG-1104F-ND	10.61	86.36	636.30
	5 (127.00)	A9CCG-1105F-ND	10.84	88.24	650.16
	6 (152.40)	A9CCG-1106F-ND	11.07	90.15	664.23
	8 (203.20)	A9CCG-1108F-ND	11.54	93.94	692.16
12	2 (50.80)	A9CCG-1202F-ND	8.54	69.57	512.61
	3 (76.20)	A9CCG-1203F-ND	8.86	72.11	531.30
	4 (101.60)	A9CCG-1204F-ND	9.17	74.67	550.20
	5 (127.00)	A9CCG-1205F-ND	9.48	77.21	568.89
	6 (152.40)	A9CCG-1206F-ND	9.80	79.77	587.79
	8 (203.20)	A9CCG-1208F-ND	10.42	84.87	625.38
13	2 (50.80)	A9CCG-1302F-ND	11.49	93.54	689.22
	3 (76.20)	A9CCG-1303F-ND	11.81	96.13	708.33
	4 (101.60)	A9CCG-1304F-ND	12.12	98.72	727.44
	5 (127.00)	A9CCG-1305F-ND	12.44	101.32	746.55
	6 (152.40)	A9CCG-1306F-ND	12.76	103.91	765.66
	8 (203.20)	A9CCG-1308F-ND	13.40	109.10	803.88
14	2 (50.80)	A9CCG-1402F-ND	9.57	77.95	574.35
	3 (76.20)	A9CCG-1403F-ND	9.89	80.57	593.67
	4 (101.60)	A9CCG-1404F-ND	10.22	83.19	612.99
	5 (127.00)	A9CCG-1405F-ND	10.54	85.84	632.52
	6 (152.40)	A9CCG-1406F-ND	10.86	88.46	651.84
	8 (203.20)	A9CCG-1408F-ND	11.51	93.71	690.48
15	2 (50.80)	A9CCG-1502F-ND	13.30	108.27	797.79
	3 (76.20)	A9CCG-1503F-ND	13.63	110.95	817.53
	4 (101.60)	A9CCG-1504F-ND	13.95	113.63	837.27
	5 (127.00)	A9CCG-1505F-ND	14.28	116.31	857.01
	6 (152.40)	A9CCG-1506F-ND	14.61	118.99	876.75
	8 (203.20)	A9CCG-1508F-ND	15.27	124.35	916.23
16	2 (50.80)	A9CCG-1602F-ND	11.07	90.17	664.44
	3 (76.20)	A9CCG-1603F-ND	11.41	92.91	684.60
	4 (101.60)	A9CCG-1604F-ND	11.74	95.62	704.55
	5 (127.00)	A9CCG-1605F-ND	12.08	98.35	724.71
	6 (152.40)	A9CCG-1606F-ND	12.41	101.06	744.66
	8 (203.20)	A9CCG-1608F-ND	13.08	106.50	784.77
18	2 (50.80)	A9CCG-1802F-ND	15.87	129.22	952.14
	3 (76.20)	A9CCG-1803F-ND	16.44	133.84	986.16
	4 (101.60)	A9CCG-1804F-ND	17.00	138.42	1019.97
	5 (127.00)	A9CCG-1805F-ND	17.57	143.04	1053.99
	6 (152.40)	A9CCG-1806F-ND	18.13	147.66	1088.01
	8 (203.20)	A9CCG-1808F-ND	19.27	156.89	1156.05
20	2 (50.80)	A9CCG-2002F-ND	14.08	114.66	844.83
	3 (76.20)	A9CCG-2003F-ND	14.66	119.36	879.48
	4 (101.60)	A9CCG-2004F-ND	15.24	124.09	914.34
	5 (127.00)	A9CCG-2005F-ND	15.82	128.79	948.99
	6 (152.40)	A9CCG-2006F-ND	16.39	133.49	983.64
	8 (203.20)	A9CCG-2008F-ND	17.55	142.90	1052.94

A9CCG-□□□□F-ND = 15µ gold; A9CCA-□□□□F-ND = 30µ gold

Call for complete part number and pricing.

Clincher™ Connector System for Flexible Circuitry - 0.100" (2.54 mm) Pitch

Clincher is a two piece, pin and receptacle connector system with features to optimize reliability at the termination and disconnectable interface.

Use 0.100" (2.54mm) Flat Flex Cable

Features:
- "Clincher" Cable termination provides four gas-tight, contamination-free contact points to each conductor
- High reliability receptacle design features FCI Mini PV™ dual-metal, mating contacts
- Contacts are pre-loaded to connector housings enabling mass termination to unprepared cable; Fast production speed reduces costs.

Materials:
Housings: Polypropylene UL 94 V-0 Blue

Electrical Performance:
- Contact Resistance (LLCR) Main Contacts: 10mΩ maximum; 20mΩ maximum after environmental exposure
- Insulation Resistance: 5000MΩ minimum
- Withstanding Voltage: 1000 VAC RMS
- Current Rating: 2.0 amp continuous per contact

Fig. 1

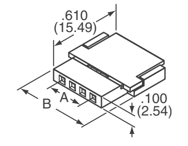

Fig. 2

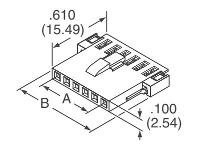

Fig. 3

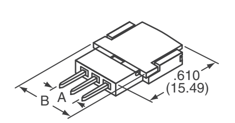

Fig.	No of Pos.	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
		Receptacles						
1	2	0.100 (2.54)	0.390 (9.91)	609-2158-ND	1.94	1.02	.88	65801-002LF
	3	0.200 (5.08)	0.490 (12.45)	609-2159-ND	1.14	.63	.53	65801-003LF
	4	0.300 (7.62)	0.590 (14.99)	609-2160-ND	1.17	.65	.55	65801-004LF
	5	0.400 (10.16)	0.690 (17.53)	609-2161-ND	1.33	.72	.62	65801-005LF
	6	0.500 (12.70)	0.790 (20.07)	609-2162-ND	1.46	.79	.68	65801-006LF
	7	0.600 (15.24)	0.890 (22.61)	609-2163-ND	1.66	.90	.79	65801-007LF
	8	0.700 (17.78)	0.990 (25.15)	609-2164-ND	1.58	.86	.75	65801-008LF
	9	0.800 (20.32)	1.090 (27.69)	609-2165-ND	1.70	.95	.83	65801-009LF
	10	0.900 (22.86)	1.190 (30.23)	609-2166-ND	1.94	1.12	.97	65801-010LF
	11	1.000 (25.40)	1.290 (32.77)	609-2167-ND	1.99	1.17	1.02	65801-011LF
	12	1.100 (27.94)	1.390 (35.31)	609-2168-ND	2.02	1.20	1.03	65801-012LF
	13	1.200 (30.48)	1.490 (37.85)	609-2169-ND	2.46	1.48	1.29	65801-013LF
	14	1.300 (33.02)	1.590 (40.39)	609-2170-ND	2.23	1.28	1.14	65801-014LF
	15	1.400 (35.56)	1.690 (42.93)	609-2171-ND	2.69	1.62	1.41	65801-015LF
	16	1.500 (38.10)	1.790 (45.47)	609-2172-ND	2.68	1.61	1.41	65801-016LF
	17	1.600 (40.64)	1.890 (48.01)	609-2173-ND	3.19	1.96	1.70	65801-017LF
	18	1.700 (43.18)	1.990 (50.55)	609-2174-ND	3.16	1.96	1.72	65801-018LF
	20	1.900 (48.26)	2.190 (55.63)	609-2175-ND	3.20	1.97	1.71	65801-020LF
		Receptacle With Latch						
2	6	0.500 (12.70)	0.790 (20.07)	609-2194-ND	1.78	.94	.81	10022753-006LF
	7	0.600 (15.24)	0.890 (22.61)	609-2195-ND	2.45	1.35	1.14	10022753-007LF
	8	0.700 (17.78)	0.990 (25.15)	609-2196-ND	1.86	1.00	.86	10022753-008LF
	9	0.800 (20.32)	1.090 (27.69)	609-2197-ND	1.43	.79	.68	10022753-009LF
	10	0.900 (22.86)	1.190 (30.23)	609-2198-ND	2.02	1.10	.96	10022753-010LF
	11	1.000 (25.40)	1.290 (32.77)	609-2199-ND	2.08	1.13	.99	10022753-011LF
	12	1.100 (27.94)	1.390 (35.31)	609-2200-ND	2.12	1.18	1.03	10022753-012LF
	13	1.200 (30.48)	1.490 (37.85)	609-2201-ND	2.15	1.23	1.07	10022753-013LF
	14	1.300 (33.02)	1.590 (40.39)	609-2202-ND	2.17	1.28	1.11	10022753-014LF
	15	1.400 (35.56)	1.690 (42.93)	609-2203-ND	2.26	1.30	1.16	10022753-015LF
	16	1.500 (38.10)	1.790 (45.47)	609-2204-ND	2.99	1.84	1.60	10022753-016LF
2	17	1.600 (40.64)	1.890 (48.01)	609-2205-ND	2.40	1.42	1.26	10022753-017LF
	18	1.700 (43.18)	1.990 (50.55)	609-2206-ND	2.63	1.59	1.38	10022753-018LF
	19	1.800 (45.72)	2.090 (53.09)	609-2207-ND	2.63	1.58	1.38	10022753-019LF
	20	1.900 (48.26)	2.190 (55.63)	609-2208-ND	2.60	1.55	1.39	10022753-020LF
	21	2.000 (50.80)	2.290 (58.17)	609-2209-ND	2.78	1.65	1.48	10022753-021LF
	22	2.100 (53.34)	2.390 (60.71)	609-2210-ND	2.76	1.70	1.52	10022753-022LF
	23	2.200 (55.88)	2.490 (63.25)	609-2211-ND	2.86	1.76	1.53	10022753-023LF
	24	2.300 (58.42)	2.590 (65.79)	609-2212-ND	2.99	1.84	1.59	10022753-024LF
	25	2.400 (60.96)	2.690 (68.33)	609-2213-ND	3.01	1.86	1.64	10022753-025LF
		Pin Connectors						
3	2	0.100 (2.54)	0.390 (9.91)	609-2176-ND	1.74	.97	.85	66226-002LF
	3	0.200 (5.08)	0.490 (12.45)	609-2177-ND	.93	.46	.39	66226-003LF
	4	0.300 (7.62)	0.590 (14.99)	609-2178-ND	1.54	.84	.73	66226-004LF
	5	0.400 (10.16)	0.690 (17.53)	609-2179-ND	1.78	1.02	.89	66226-005LF
	6	0.500 (12.70)	0.790 (20.07)	609-2180-ND	2.07	1.15	1.01	66226-006LF
	7	0.600 (15.24)	0.890 (22.61)	609-2181-ND	1.99	1.17	1.02	66226-007LF
	8	0.700 (17.78)	0.990 (25.15)	609-2182-ND	1.94	1.15	.99	66226-008LF
	9	0.800 (20.32)	1.090 (27.69)	609-2183-ND	2.24	1.29	1.15	66226-009LF
	10	0.900 (22.86)	1.190 (30.23)	609-2184-ND	2.47	1.49	1.30	66226-010LF
	11	1.000 (25.40)	1.290 (32.77)	609-2185-ND	2.56	1.53	1.37	66226-011LF
	12	1.100 (27.94)	1.390 (35.31)	609-2186-ND	2.68	1.64	1.47	66226-012LF
	13	1.200 (30.48)	1.490 (37.85)	609-2187-ND	2.87	1.76	1.53	66226-013LF
	14	1.300 (33.02)	1.590 (40.39)	609-2188-ND	3.10	1.90	1.65	66226-014LF
	15	1.400 (35.56)	1.690 (42.93)	609-2189-ND	3.24	2.01	1.77	66226-015LF
	16	1.500 (38.10)	1.790 (45.47)	609-2190-ND	3.37	2.08	1.84	66226-016LF
	17	1.600 (40.64)	1.890 (48.01)	609-2191-ND	3.10	1.90	1.65	66226-017LF
	18	1.700 (43.18)	1.990 (50.55)	609-2192-ND	3.98	2.47	2.24	66226-018LF
	20	1.800 (45.72)	2.090 (53.09)	609-2193-ND	4.10	2.55	2.31	66226-020LF
		Tool						
Crimp Tool for Clincher Connectors				609-2214-ND	1600.56	—	—	HT270

.050" (1.27mm) Flat Flex Cable

Material:
- Insulation: Flame retardant polyester film

Performance Characteristics:
- Current Rating: 1.5 amperes (30AWG equivalent)
- Voltage Rating: 300V
- Temperature Rating: -55°C ~ 105°C
- Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1
- Dielectric Strength: 2500V/MIL

Typical Electrical Values:
- Resistance: 110Ω/1000 feet (304.8 meters) maximum
- Capacitance: 13.8 pf/ft (maximum)
- Impedance: 113Ω

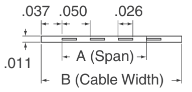

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Pricing 500 Ft.
4	.150 (3.81)	.250 (6.35)	AE04-500-ND	300.00
5	.200 (5.08)	.300 (7.62)	AE05-500-ND	307.50
6	.250 (6.35)	.350 (8.89)	AE06-500-ND	315.00
7	.300 (7.62)	.400 (10.16)	AE07-500-ND	322.50
8	.350 (8.89)	.450 (11.43)	AE08-500-ND	330.00
10	.450 (11.43)	.550 (13.97)	AE10-500-ND	345.00
12	.550 (13.97)	.650 (16.51)	AE12-500-ND	367.50
17	.800 (20.32)	.900 (22.86)	AE17-500-ND	442.50
20	.950 (24.13)	1.050 (26.67)	AE20-500-ND	510.00
22	1.050 (26.67)	1.150 (29.21)	AE22-500-ND	555.00
25	1.200 (30.48)	1.300 (33.02)	AE25-500-ND	645.00

.100" (2.54mm) Flat Flex Cable

Material:
- Conductors: Unplated copper per QQ-C502
- Insulation: Flame retardant polyester film

Performance Characteristics:
- Current Rating: 2 amperes (28AWG equivalent)
- Voltage Rating: 300V
- Temperature Rating: -55°C ~ 105°C
- Insulation Resistance: 5000MΩ (minimum)
- Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1
- UL Style 2643

Typical Electrical Values:
- Resistance: 55Ω/1000 feet (304.8 meters) maximum
- Capacitance: 10.8 pf/ft (maximum)
- Impedance: 128Ω

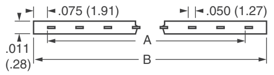

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Pricing 500 Ft.
2	.100 (2.54)	.300 (7.62)	AF02-500-ND	247.50
3	.200 (5.08)	.400 (10.16)	AF03-500-ND	270.00
4	.300 (7.62)	.500 (12.70)	AF04-500-ND	285.00
5	.400 (10.16)	.600 (15.24)	AF05-500-ND	292.50
6	.500 (12.70)	.700 (17.78)	AF06-500-ND	315.00
8	.700 (17.78)	.900 (22.86)	AF08-500-ND	352.50
9	.800 (20.32)	1.000 (25.40)	AF09-500-ND	405.00
10	.900 (22.86)	1.100 (27.94)	AF10-500-ND	420.00
11	1.000 (25.40)	1.200 (30.48)	AF11-500-ND	435.00
12	1.100 (27.94)	1.300 (33.02)	AF12-500-ND	450.00
13	1.200 (30.48)	1.400 (35.56)	AF13-500-ND	465.00
14	1.300 (33.02)	1.500 (38.10)	AF14-500-ND	480.00
15	1.400 (35.56)	1.600 (40.64)	AF15-500-ND	495.00
16	1.500 (38.10)	1.700 (43.18)	AF16-500-ND	540.00
18	1.700 (43.18)	1.900 (48.26)	AF18-500-ND	622.50
20	1.900 (48.26)	2.100 (53.34)	AF20-500-ND	712.50

0.5mm and 1mm Flat Flex Cable

Parlex custom jumper cables are available with flat conductors of desired length, stripped at both ends. The insulation has been stripped from one side only, exposing one surface of the conductors. Conductors have been pre-tinned for direct insertion into connectors.

Features:

• Superior Mechanical and Shielding Performance • Meets FCC, CIS PR/VDE effectivity requirements for inter connects • High flexibility rating of 10 million flex cycles on a .6" (15.24mm) radius with optimum design layout • Superior mechanical and abrasion resistance

Cable Characteristics:

• **Conductors:** Cu., tin/lead plated • **Current Rating:** 0.5A (0.5mm); 1.50A (1mm) • **Voltage Rating:** 90 volts • **Insulation:** polyester • **Temperature Rating:** -55°C ~ 105°C • **Dielectric Strength:** 2500 volts/mil • **U.L. Flame Rating:** VW-1 • **U.L. Styles:** 20890 & 20566

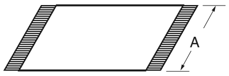

0.5mm Flat Flex Cable

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing			Parlex Part No.
			1	10	100	
2" (5.08cm) Flat Flex Cable						
4	2.5	HFF-04U-02-ND	3.60	30.00	220.00	05004-51B
5	3.0	HFF-05U-02-ND	3.60	30.00	220.00	05005-51B
6	3.5	HFF-06U-02-ND	3.60	30.00	220.00	05006-51B
7	4.0	HFF-07U-02-ND	3.60	30.00	220.00	05007-51B
8	4.5	HFF-08U-02-ND	3.60	30.00	220.00	05008-51B
10	5.5	HFF-10U-02-ND	3.60	30.00	220.00	05010-51B
12	6.5	HFF-12U-02-ND	3.60	30.00	220.00	05012-51B
13	7.0	HFF-13U-02-ND	3.60	30.00	220.00	05013-51B
15	8.0	HFF-15U-02-ND	3.60	30.00	220.00	05015-51B
18	8.5	HFF-18U-02-ND	3.60	30.00	220.00	05018-51B
20	10.5	HFF-20U-02-ND	3.74	31.13	228.25	05020-51B
21	11	HFF-21U-02-ND	3.74	31.13	228.25	05021-51B
22	11.5	HFF-22U-02-ND	3.74	31.13	228.25	05022-51B
24	12.5	HFF-24U-02-ND	3.78	31.50	231.00	05024-51B
26	13.5	HFF-26U-02-ND	3.74	31.13	228.25	05026-51B
30	15.5	HFF-30U-02-ND	3.83	31.88	233.75	05030-51B
36	18.5	HFF-36U-02-ND	3.87	32.25	236.50	05036-51B
40	20.5	HFF-40U-02-ND	3.92	32.63	239.25	05040-51B
50	25.5	HFF-50U-02-ND	4.05	33.75	247.50	05050-51B
3" (7.62cm) Flat Flex Cable						
4	2.5	HFF-04U-03-ND	4.05	33.75	247.50	05004-76B
5	3.0	HFF-05U-03-ND	4.05	33.75	247.50	05005-76B
6	3.5	HFF-06U-03-ND	4.05	33.75	247.50	05006-76B
7	4.0	HFF-07U-03-ND	4.05	33.75	247.50	05007-76B
8	4.5	HFF-08U-03-ND	4.05	33.75	247.50	05008-76B
10	5.5	HFF-10U-03-ND	4.05	33.75	247.50	05010-76B
12	6.5	HFF-12U-03-ND	4.05	33.75	247.50	05012-76B
13	7.0	HFF-13U-03-ND	4.05	33.75	247.50	05013-76B
15	8.0	HFF-15U-03-ND	4.05	33.75	247.50	05015-76B
18	8.5	HFF-18U-03-ND	4.05	33.75	247.50	05018-76B
20	10.5	HFF-20U-03-ND	4.05	33.75	247.50	05020-76B
21	11	HFF-21U-03-ND	4.05	33.75	247.50	05021-76B
22	11.5	HFF-22U-03-ND	4.05	33.75	247.50	05022-76B
24	12.5	HFF-24U-03-ND	4.05	33.75	247.50	05024-76B
26	13.5	HFF-26U-03-ND	4.05	33.75	247.50	05026-76B
30	15.5	HFF-30U-03-ND	4.05	33.75	247.50	05030-76B
36	18.5	HFF-36U-03-ND	4.05	33.75	247.50	05036-76B
40	20.5	HFF-40U-03-ND	4.05	33.75	247.50	05040-76B
50	25.5	HFF-50U-03-ND	4.05	33.75	247.50	05050-76B
4" (10.16cm) Flat Flex Cable						
4	2.5	HFF-04U-04-ND	4.05	33.75	247.50	05004-102B
5	3.0	HFF-05U-04-ND	4.05	33.75	247.50	05005-102B
6	3.5	HFF-06U-04-ND	4.05	33.75	247.50	05006-102B
7	4.0	HFF-07U-04-ND	4.05	33.75	247.50	05007-102B
8	4.5	HFF-08U-04-ND	4.05	33.75	247.50	05008-102B
10	5.5	HFF-10U-04-ND	4.05	33.75	247.50	05010-102B
12	6.5	HFF-12U-04-ND	4.28	35.63	261.25	05012-102B
13	7.0	HFF-13U-04-ND	4.28	35.63	261.25	05013-102B
15	8.0	HFF-15U-04-ND	4.28	35.63	261.25	05015-102B
18	8.5	HFF-18U-04-ND	4.28	35.63	261.25	05018-102B
20	10.5	HFF-20U-04-ND	4.28	35.63	261.25	05020-102B
21	11	HFF-21U-04-ND	4.28	35.63	261.25	05021-102B
22	11.5	HFF-22U-04-ND	4.28	35.63	261.25	05022-102B
24	12.5	HFF-24U-04-ND	4.37	36.38	266.75	05024-102B
26	13.5	HFF-26U-04-ND	4.37	36.38	266.75	05026-102B
30	15.5	HFF-30U-04-ND	4.50	37.50	275.00	05030-102B
36	18.5	HFF-36U-04-ND	4.64	38.63	283.25	05036-102B
40	20.5	HFF-40U-04-ND	4.73	39.38	288.75	05040-102B
50	25.5	HFF-50U-04-ND	4.95	41.25	302.50	05050-102B
5" (12.70cm) Flat Flex Cable						
4	2.5	HFF-04U-05-ND	4.95	41.25	302.50	05004-127B
5	3.0	HFF-05U-05-ND	4.95	41.25	302.50	05005-127B
6	3.5	HFF-06U-05-ND	4.95	41.25	302.50	05006-127B
7	4.0	HFF-07U-05-ND	4.95	41.25	302.50	05007-127B
8	4.5	HFF-08U-05-ND	4.95	41.25	302.50	05008-127B
10	5.5	HFF-10U-05-ND	4.95	41.25	302.50	05010-127B
12	6.5	HFF-12U-05-ND	4.95	41.25	302.50	05012-127B
13	7.0	HFF-13U-05-ND	4.95	41.25	302.50	05013-127B
15	8	HFF-15U-05-ND	4.95	41.25	302.50	05015-127B
18	8.5	HFF-18U-05-ND	4.95	41.25	302.50	05018-127B
20	10.5	HFF-20U-05-ND	4.95	41.25	302.50	05020-127B
21	11	HFF-21U-05-ND	4.95	41.25	302.50	05021-127B
22	11.5	HFF-22U-05-ND	4.95	41.25	302.50	05022-127B
24	12.5	HFF-24U-05-ND	4.95	41.25	302.50	05024-127B
26	13.5	HFF-26U-05-ND	4.95	41.25	302.50	05026-127B
30	15.5	HFF-30U-05-ND	4.95	41.25	302.50	05030-127B
36	18.5	HFF-36U-05-ND	4.95	41.25	302.50	05036-127B
40	20.5	HFF-40U-05-ND	4.95	41.25	302.50	05040-127B
50	25.5	HFF-50U-05-ND	4.95	41.25	302.50	05050-127B
6" (15.24cm) Flat Flex Cable						
4	2.5	HFF-04U-06-ND	4.95	41.25	302.50	05004-152B
5	3.0	HFF-05U-06-ND	4.95	41.25	302.50	05005-152B
6	3.5	HFF-06U-06-ND	4.95	41.25	302.50	05006-152B
7	4.0	HFF-07U-06-ND	4.95	41.25	302.50	05007-152B
8	4.5	HFF-08U-06-ND	4.95	41.25	302.50	05008-152B
10	5.5	HFF-10U-06-ND	4.95	41.25	302.50	05010-152B
12	6.5	HFF-12U-06-ND	4.95	41.25	302.50	05012-152B
13	7.0	HFF-13U-06-ND	4.95	41.25	302.50	05013-152B
15	8.0	HFF-15U-06-ND	4.95	41.25	302.50	05015-152B
18	8.5	HFF-18U-06-ND	4.95	41.25	302.50	05018-152B
20	10.5	HFF-20U-06-ND	4.95	41.25	302.50	05020-152B
21	11	HFF-21U-06-ND	4.95	41.25	302.50	05021-152B
22	11.5	HFF-22U-06-ND	4.95	41.25	302.50	05022-152B
24	12.5	HFF-24U-06-ND	5.18	43.13	316.25	05024-152B
26	13.5	HFF-26U-06-ND	5.18	43.13	316.25	05026-152B
30	15.5	HFF-30U-06-ND	5.40	45.00	330.00	05030-152B
36	18.5	HFF-36U-06-ND	5.54	46.13	338.25	05036-152B
40	20.5	HFF-40U-06-ND	5.63	46.88	343.75	05040-152B
50	25.5	HFF-50U-06-ND	5.85	48.75	357.50	05050-152B

1mm Flat Flex Cable

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing			Parlex Part No.
			1	10	100	
2" (5.08cm) Flat Flex Cable						
5	6.15	HF05U-02-ND	2.25	18.75	137.50	10005-51B
6	7.15	HF06U-02-ND	2.25	18.75	137.50	10006-51B
7	8.15	HF07U-02-ND	2.25	18.75	137.50	10007-51B
8	9.15	HF08U-02-ND	2.48	20.63	151.25	10008-51B
10	11.15	HF10U-02-ND	2.70	22.50	165.00	10010-51B
12	13.15	HF12U-02-ND	2.93	24.38	178.75	10012-51B
14	15.15	HF14U-02-ND	3.15	26.25	192.50	10014-51B
15	16.15	HF15U-02-ND	3.15	26.25	192.50	10015-51B
16	17.15	HF16U-02-ND	3.38	28.13	206.25	10016-51B
17	18.15	HF17U-02-ND	3.38	28.13	206.25	10017-51B
18	19.15	HF18U-02-ND	3.60	30.00	220.00	10018-51B
20	21.15	HF20U-02-ND	3.83	31.88	233.75	10020-51B
22	23.15	HF22U-02-ND	4.05	33.75	247.50	10022-51B
24	25.15	HF24U-02-ND	4.28	35.63	261.25	10024-51B
26	27.15	HF26U-02-ND	4.50	37.50	275.00	10026-51B
28	29.15	HF28U-02-ND	4.73	39.38	288.75	10028-51B
30	31.15	HF30U-02-ND	4.95	41.25	302.50	10030-51B
3" (7.62cm) Flat Flex Cable						
5	6.15	HF05U-03-ND	2.48	20.63	151.25	10005-76B
6	7.15	HF06U-03-ND	2.48	20.63	151.25	10006-76B
7	8.15	HF07U-03-ND	2.48	20.63	151.25	10007-76B
8	9.15	HF08U-03-ND	2.70	22.50	165.00	10008-76B
10	11.15	HF10U-03-ND	2.93	24.38	178.75	10010-76B
12	13.15	HF12U-03-ND	3.15	26.25	192.50	10012-76B
14	15.15	HF14U-03-ND	3.38	28.13	206.25	10014-76B
15	16.15	HF15U-03-ND	3.38	28.13	206.25	10015-76B
16	17.15	HF16U-03-ND	3.60	30.00	220.00	10016-76B
17	18.15	HF17U-03-ND	3.60	30.00	220.00	10017-76B
18	19.15	HF18U-03-ND	3.83	31.88	233.75	10018-76B
20	21.15	HF20U-03-ND	4.05	33.75	247.50	10020-76B
22	23.15	HF22U-03-ND	4.28	35.63	261.25	10022-76B
24	25.15	HF24U-03-ND	4.50	37.50	275.00	10024-76B
26	27.15	HF26U-03-ND	4.73	39.38	288.75	10026-76B
28	29.15	HF28U-03-ND	4.95	41.25	302.50	10028-76B
30	31.15	HF30U-03-ND	5.18	43.13	316.25	10030-76B
4" (10.16cm) Flat Flex Cable						
5	6.15	HF05U-04-ND	2.70	22.50	165.00	10005-102B
6	7.15	HF06U-04-ND	2.70	22.50	165.00	10006-102B
7	8.15	HF07U-04-ND	2.70	22.50	165.00	10007-102B
8	9.15	HF08U-04-ND	2.93	24.38	178.75	10008-102B
10	11.15	HF10U-04-ND	3.15	26.25	192.50	10010-102B
12	13.15	HF12U-04-ND	3.38	28.13	206.25	10012-102B
14	15.15	HF14U-04-ND	3.60	30.00	220.00	10014-102B
15	16.15	HF15U-04-ND	3.60	30.00	220.00	10015-102B
16	17.15	HF16U-04-ND	3.83	31.88	233.75	10016-102B
17	18.15	HF17U-04-ND	3.83	31.88	233.75	10017-102B
18	19.15	HF18U-04-ND	4.05	33.75	247.50	10018-102B
20	21.15	HF20U-04-ND	4.28	35.63	261.25	10020-102B
22	23.15	HF22U-04-ND	4.50	37.50	275.00	10022-102B
24	25.15	HF24U-04-ND	4.73	39.38	288.75	10024-102B
26	27.15	HF26U-04-ND	4.95	41.25	302.50	10026-102B
28	29.15	HF28U-04-ND	5.18	43.13	316.25	10028-102B
30	31.15	HF30U-04-ND	5.40	45.00	330.00	10030-102B
5" (12.70cm) Flat Flex Cable						
5	6.15	HF05U-05-ND	2.93	24.38	178.75	10005-127B
6	7.15	HF06U-05-ND	2.93	24.38	178.75	10006-127B
7	8.15	HF07U-05-ND	2.93	24.38	178.75	10007-127B
8	9.15	HF08U-05-ND	3.15	26.25	192.50	10008-127B
10	11.15	HF10U-05-ND	3.38	28.13	206.25	10010-127B
12	13.15	HF12U-05-ND	3.60	30.00	220.00	10012-127B
14	15.15	HF14U-05-ND	3.83	31.88	233.75	10014-127B
15	16.15	HF15U-05-ND	3.83	31.88	233.75	10015-127B
16	17.15	HF16U-05-ND	4.05	33.75	247.50	10016-127B
17	18.15	HF17U-05-ND	4.05	33.75	247.50	10017-127B
18	19.15	HF18U-05-ND	4.28	35.63	261.25	10018-127B
20	21.15	HF20U-05-ND	4.50	37.50	275.00	10020-127B
22	23.15	HF22U-05-ND	4.73	39.38	288.75	10022-127B
24	25.15	HF24U-05-ND	4.95	41.25	302.50	10024-127B
26	27.15	HF26U-05-ND	5.18	43.13	316.25	10026-127B
28	29.15	HF28U-05-ND	5.40	45.00	330.00	10028-127B
30	31.15	HF30U-05-ND	5.63	46.88	343.75	10030-127B
6" (15.24cm) Flat Flex Cable						
5	6.15	HF05U-06-ND	3.15	26.25	192.50	10005-152B
6	7.15	HF06U-06-ND	3.15	26.25	192.50	10006-152B
7	8.15	HF07U-06-ND	3.15	26.25	192.50	10007-152B
8	9.15	HF08U-06-ND	3.38	28.13	206.25	10008-152B
10	11.15	HF10U-06-ND	3.60	30.00	220.00	10010-152B
12	13.15	HF12U-06-ND	3.83	31.88	233.75	10012-152B
14	15.15	HF14U-06-ND	4.05	33.75	247.50	10014-152B
15	16.15	HF15U-06-ND	4.05	33.75	247.50	10015-152B
16	17.15	HF16U-06-ND	4.28	35.63	261.25	10016-152B
17	18.15	HF17U-06-ND	4.28	35.63	261.25	10017-152B
18	19.15	HF18U-06-ND	4.50	37.50	275.00	10018-152B
20	21.15	HF20U-06-ND	4.73	39.38	288.75	10020-152B
22	23.15	HF22U-06-ND	4.95	41.25	302.50	10022-152B
24	25.15	HF24U-06-ND	5.18	43.13	316.25	10024-152B
26	27.15	HF26U-06-ND	5.40	45.00	330.00	10026-152B
28	29.15	HF28U-06-ND	5.63	46.88	343.75	10028-152B
30	31.15	HF30U-06-ND	5.85	48.75	357.50	10030-152B
8" (20.32cm) Flat Flex Cable						
5	6.15	HF05U-08-ND	3.60	30.00	220.00	10005-203B
6	7.15	HF06U-08-ND	3.60	30.00	220.00	10006-203B
7	8.15	HF07U-08-ND	3.60	30.00	220.00	10007-203B
8	9.15	HF08U-08-ND	3.83	31.88	233.75	10008-203B
10	11.15	HF10U-08-ND	4.05	33.75	247.50	10010-203B
12	13.15	HF12U-08-ND	4.28	35.63	261.25	10012-203B
14	15.15	HF14U-08-ND	4.50	37.50	275.00	10014-203B
15	16.15	HF15U-08-ND	4.50	37.50	275.00	10015-203B
16	17.15	HF16U-08-ND	4.73	39.38	288.75	10016-203B
17	18.15	HF17U-08-ND	4.73	39.38	288.75	10017-203B
18	19.15	HF18U-08-ND	4.95	41.25	302.50	10018-203B
20	21.15	HF20U-08-ND	5.18	43.13	316.25	10020-203B
22	23.15	HF22U-08-ND	5.40	45.00	330.00	10022-203B
24	25.15	HF24U-08-ND	5.63	46.88	343.75	10024-203B
26	27.15	HF26U-08-ND	5.85	48.75	357.50	10026-203B
28	29.15	HF28U-08-ND	6.08	50.63	371.25	10028-203B
30	31.15	HF30U-08-ND	6.30	52.50	385.00	10030-203B
10" (25.40cm) Flat Flex Cable						
5	6.15	HF05U-10-ND	4.05	33.75	247.50	10005-254B
6	7.15	HF06U-10-ND	4.05	33.75	247.50	10006-254B
7	8.15	HF07U-10-ND	4.05	33.75	247.50	10007-254B
8	9.15	HF08U-10-ND	4.28	35.63	261.25	10008-254B
10	11.15	HF10U-10-ND	4.50	37.50	275.00	10010-254B
12	13.15	HF12U-10-ND	4.73	39.38	288.75	10012-254B
14	15.15	HF14U-10-ND	4.95	41.25	302.50	10014-254B
15	16.15	HF15U-10-ND	4.95	41.25	302.50	10015-254B
16	17.15	HF16U-10-ND	5.18	43.13	316.25	10016-254B
17	18.15	HF17U-10-ND	5.18	43.13	316.25	10017-254B
18	19.15	HF18U-10-ND	5.40	45.00	330.00	10018-254B
20	21.15	HF20U-10-ND	5.63	46.88	343.75	10020-254B
22	23.15	HF22U-10-ND	5.85	48.75	357.50	10022-254B
24	25.15	HF24U-10-ND	6.08	50.63	371.25	10024-254B
26	27.15	HF26U-10-ND	6.30	52.50	385.00	10026-254B
28	29.15	HF28U-10-ND	6.53	54.38	398.75	10028-254B
30	31.15	HF30U-10-ND	6.75	56.25	412.50	10030-254B
12" (30.48cm) Flat Flex Cable						
5	6.15	HF05U-12-ND	4.50	37.50	275.00	10005-305B
6	7.15	HF06U-12-ND	4.50	37.50	275.00	10006-305B
7	8.15	HF07U-12-ND	4.50	37.50	275.00	10007-305B
8	9.15	HF08U-12-ND	4.73	39.38	288.75	10008-305B
10	11.15	HF10U-12-ND	4.95	41.25	302.50	10010-305B
12	13.15	HF12U-12-ND	5.18	43.13	316.25	10012-305B
14	15.15	HF14U-12-ND	5.40	45.00	330.00	10014-305B
15	16.15	HF15U-12-ND	5.40	45.00	330.00	10015-305B
16	17.15	HF16U-12-ND	5.63	46.88	343.75	10016-305B
17	18.15	HF17U-12-ND	5.63	46.88	343.75	10017-305B
18	19.15	HF18U-12-ND	5.85	48.75	357.50	10018-305B
20	21.15	HF20U-12-ND	6.08	50.63	371.25	10020-305B
22	23.15	HF22U-12-ND	6.30	52.50	385.00	10022-305B
24	25.15	HF24U-12-ND	6.53	54.38	398.75	10024-305B
26	27.15	HF26U-12-ND	6.75	56.25	412.50	10026-305B
28	29.15	HF28U-12-ND	6.98	58.13	426.25	10028-305B
30	31.15	HF30U-12-ND	7.20	60.00	440.00	10030-305B
18" (45.72cm) Flat Flex Cable						
5	6.15	HF05U-18-ND	5.85	48.75	357.50	10005-457B
6	7.15	HF06U-18-ND	5.85	48.75	357.50	10006-457B
7	8.15	HF07U-18-ND	5.85	48.75	357.50	10007-457B
8	9.15	HF08U-18-ND	6.08	50.63	371.25	10008-457B
10	11.15	HF10U-18-ND	6.30	52.50	385.00	10010-457B
12	13.15	HF12U-18-ND	6.53	54.38	398.75	10012-457B
14	15.15	HF14U-18-ND	6.75	56.25	412.50	10014-457B
15	16.15	HF15U-18-ND	6.75	56.25	412.50	10015-457B
16	17.15	HF16U-18-ND	6.98	58.13	426.25	10016-457B
17	18.15	HF17U-18-ND	5.63	46.88	343.75	10017-305B
18	19.15	HF18U-18-ND	7.20	60.00	440.00	10018-457B
20	21.15	HF20U-18-ND	7.43	61.88	453.75	10020-457B
22	23.15	HF22U-18-ND	7.65	63.75	467.50	10022-457B
24	25.15	HF24U-18-ND	7.88	65.63	481.25	10024-457B
26	27.15	HF26U-18-ND	8.10	67.50	495.00	10026-457B
28	29.15	HF28U-18-ND	8.33	69.38	508.75	10028-457B
30	31.15	HF30U-18-ND	8.55	71.25	522.50	10030-457B

JST

FLZ Series 0.5mm FFC/FPC Connectors

This extremely small 0.5mm (.020") pitch connector with a height of only 2.0mm (.079") above the PCB surface allows interconnection in extremely small spaces and is an example of JST's leading edge technology. **Features:** • Zero insertion force mechanism increases wear resistance and extends the connector's mating life • Heat resistant design suitable for surface mounting to allow for reflow soldering • In-line surface mount tails for easy inspection • Two types of connections: normal or reverse configurations; the FFC/FPC is positioned with its mating surfaces facing upward for the normal configured connector, while the reverse configuration requires that the FFC/FPC be positioned with its mating surfaces facing down giving the engineer greater freedom in designing the circuitry. **Specifications:** • Current Rating: 0.5A AC/DC • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Withstanding Voltage: 200V AC/minute

Fig. 1

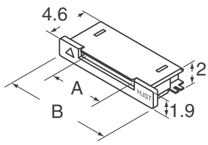

Fig. 2

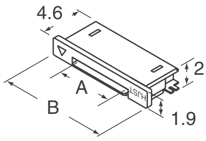

Fig. 3

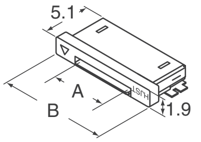

Fig.	Circuits	Dimensions - (mm) A	B	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape & Reel‡ Pricing 2,000	JST Part No.
Normal Type									
1	6	2.5	8.9	455-1960-1-ND	7.44	62.04	248.14	411.91/M	06FLZ-SM2-TB(LF)(SN)
	7	3.0	9.4	455-1962-1-ND	7.70	64.15	256.60	425.96/M	07FLZ-SM2-TB(LF)(SN)
	8	3.5	9.9	455-1964-1-ND	7.96	66.33	265.30	440.40/M	08FLZ-SM2-TB(LF)(SN)
	9	4.0	10.4	455-1966-1-ND	9.22	76.79	307.17	509.90/M	09FLZ-SM2-TB(LF)(SN)
	12	5.5	11.9	455-1968-1-ND	10.06	83.85	335.39	556.75/M	12FLZ-SM2-TB(LF)(SN)
	14	6.5	12.9	455-1970-1-ND	10.46	87.14	348.57	578.63/M	14FLZ-SM2-TB(LF)(SN)
	16	7.5	13.9	455-1972-1-ND	11.27	93.91	375.62	623.53/M	16FLZ-SM2-TB(LF)(SN)
	20	9.5	15.9	455-1974-1-ND	11.84	98.65	394.60	655.04/M	20FLZ-SM2-TB(LF)(SN)
	24	11.5	17.9	455-1977-1-ND	13.64	113.66	454.64	754.70/M	24FLZ-SM2-TB(LF)(SN)
	26	12.5	18.9	455-1979-1-ND	14.16	118.01	472.05	783.61/M	26FLZ-SM2-TB(LF)(SN)
	27	13.0	19.4	455-1981-1-ND	14.41	120.07	480.28	797.27/M	27FLZ-SM2-TB(LF)(SN)
	28	13.5	19.9	455-1983-1-ND	14.51	120.90	483.60	802.78/M	28FLZ-SM2-TB(LF)(SN)
	33	16.0	22.4	455-1986-1-ND	15.88	132.34	529.37	878.76/M	33FLZ-SM2-TB(LF)(SN)
Reverse Type									
2	6	2.5	8.9	455-1959-1-ND	7.41	61.74	246.97	409.97/M	06FLZ-RSM2-TB(LF)(SN)
	7	3.0	9.4	455-1961-1-ND	7.70	64.15	256.60	420.45/M	07FLZ-RSM2-TB(LF)(SN)
	8	3.5	9.9	455-1963-1-ND	7.91	65.92	263.66	437.68/M	08FLZ-RSM2-TB(LF)(SN)
	9	4.0	10.4	455-1965-1-ND	9.18	76.47	305.89	507.78/M	09FLZ-RSM2-TB(LF)(SN)
	12	5.5	11.9	455-1967-1-ND	10.00	83.32	333.28	553.25/M	12FLZ-RSM2-TB(LF)(SN)
	14	6.5	12.9	455-1969-1-ND	10.41	86.73	346.92	575.89/M	14FLZ-RSM2-TB(LF)(SN)
	16	7.5	13.9	455-1971-1-ND	11.06	92.18	368.72	612.08/M	16FLZ-RSM2-TB(LF)(SN)
	20	9.5	15.9	455-1973-1-ND	11.69	97.45	389.81	647.09/M	20FLZ-RSM2-TB(LF)(SN)
	22	10.5	16.9	455-1975-1-ND	12.33	102.73	410.90	682.10/M	22FLZ-RSM2-TB(LF)(SN)
	24	11.5	17.9	455-1976-1-ND	13.58	113.14	452.54	751.22/M	24FLZ-RSM2-TB(LF)(SN)
	26	12.5	18.9	455-1978-1-ND	14.08	117.37	469.46	779.31/M	26FLZ-RSM2-TB(LF)(SN)
	27	13.0	19.4	455-1980-1-ND	14.33	119.42	477.69	792.97/M	27FLZ-RSM2-TB(LF)(SN)
	28	13.5	19.9	455-1982-1-ND	14.51	120.90	483.60	802.78/M	28FLZ-RSM2-TB(LF)(SN)
	30	14.5	20.9	455-1984-1-ND	15.30	127.48	509.91	846.45/M	30FLZ-RSM2-TB(LF)(SN)
Inner-Lock Reverse Type									
3	34	16.5	23.6	455-1987-1-ND	17.36	144.65	578.58	960.45/M	34FLZ-RSM2-R-TB(LF)(SN)
	40	19.5	26.6	455-1988-1-ND	19.14	159.47	637.86	1058.85/M	40FLZ-RSM2-R-TB(LF)(SN)

‡ For Tape and Reel part number, change 1-ND to 2-ND.

FMN Series 1.0mm FFC/FPC Connectors

Features: • Height: 3.0mm (.118") side-entry type; 5.1mm (.201") top-entry type • There are no slides or levers to operate on the reduced insertion force connector. It requires 1/2 the insertion force of JST's conventional FFC connector, but retains stable contact performance when subjected to environmental and mechanical stresses. • SMT type connectors have heat-resistant housings so solder reflow is possible. They also have solder tabs for extra strength. **Specifications:** • Current Rating: 0.5A DC • Voltage Rating: 50V DC • Temperature Range: -25°C ~ 85°C • Applicable PC Board Thickness: 1.6mm (.063)

Fig. 1

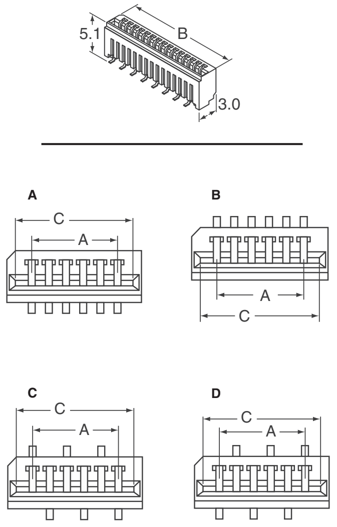

Fig. 2

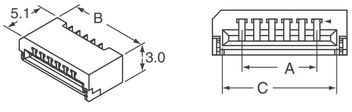

Fig.	Cir-cuits	Dimensions (mm) A	B	C	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape & Reel‡ Qty.	Pricing	JST Part No.
Top Entry — Single Row											
1A	4	3.0	6.0	5.0	455-2194-1-ND	3.36	28.01	112.05	1,000	186.00	04FMN-BMT-A-TF(LF)(SN)
	8	7.0	10.0	9.0	455-1925-1-ND	4.55	37.89	151.57	1,000	251.61	08FMN-BMT-A-TF(LF)(SN)
	10	9.0	12.0	11.0	455-1930-1-ND	5.07	42.29	169.16	1,000	280.81	10FMN-BMT-A-TF(LF)(SN)
	12	11.0	14.0	13.0	455-1935-1-ND	5.75	47.93	191.73	1,000	318.27	12FMN-BMT-A-TF(LF)(SN)
	18	17.0	20.0	19.0	455-1946-1-ND	7.50	62.48	249.93	1,000	414.88	18FMN-BMT-A-TF(LF)(SN)
	22	21.0	24.0	23.0	455-1952-1-ND	9.07	75.62	302.47	1,000	502.10	22FMN-BMT-A-TF(LF)(SN)
	30	29.0	32.0	31.0	455-1957-1-ND	11.35	94.62	378.47	1,000	628.26	30FMN-BMT-A-TF(LF)(SN)
Top Entry — Single Row (Reverse)											
1B	10	9.0	12.0	11.0	455-1931-1-ND	5.07	42.29	169.16	1,000	280.81	10FMN-BMTR-A-TB(LF)(SN)
	18	17.0	20.0	19.0	455-1947-1-ND	7.50	62.48	249.93	1,000	414.88	18FMN-BMTR-A-TB(LF)(SN)
Top Entry — Staggered											
1C	4	3.0	6.0	5.0	455-1918-1-ND	3.36	28.01	112.05	1,000	186.00	04FMN-BMTTN-A-TF(LF)(SN)
	5	4.0	7.0	6.0	455-1920-1-ND	3.63	30.24	120.95	1,000	200.78	05FMN-BMTTN-A-TF(LF)(SN)
	6	5.0	8.0	7.0	455-1922-1-ND	3.89	32.41	129.63	1,000	215.19	06FMN-BMTTN-A-TF(LF)(SN)
	8	7.0	10.0	9.0	455-1926-1-ND	4.55	37.89	151.57	1,000	251.61	08FMN-BMTTN-A-TF(LF)(SN)
	9	8.0	11.0	10.0	455-1928-1-ND	4.81	40.06	160.25	1,000	266.02	09FMN-BMTTN-A-TF(LF)(SN)
	10	9.0	12.0	11.0	455-1932-1-ND	5.07	42.29	169.16	1,000	280.81	10FMN-BMTTN-A-TF(LF)(SN)
	13	12.0	15.0	14.0	455-1938-1-ND	5.98	49.86	199.45	1,000	331.09	13FMN-BMTTN-A-TF(LF)(SN)
	14	13.0	16.0	15.0	455-1940-1-ND	6.21	51.79	207.15	1,000	343.87	14FMN-BMTTN-A-TF(LF)(SN)
	15	14.0	17.0	16.0	455-1943-1-ND	6.55	54.61	218.44	1,000	362.61	15FMN-BMTTN-A-TF(LF)(SN)
	20	19.0	22.0	21.0	455-1949-1-ND	8.25	68.73	274.90	1,000	456.33	20FMN-BMTTN-A-TF(LF)(SN)
	25	24.0	27.0	26.0	455-1954-1-ND	10.03	83.55	334.18	2,000	1109.48	25FMN-BMTTN-A-TF(LF)(SN)
	40	39.0	42.0	41.0	455-1958-1-ND	13.88	115.63	462.50	1,000	767.75	40FMN-BMTTN-A-TF(LF)(SN)
Top Entry — Staggered (Reverse)											
1D	10	9.0	12.0	11.0	455-1933-1-ND	5.07	42.29	169.16	1,000	280.81	10FMN-BMTTR-A-TB(LF)(SN)
	12	11.0	14.0	13.0	455-1936-1-ND	5.75	47.93	191.73	1,000	318.27	12FMN-BMTTR-A-TB(LF)(SN)
	14	13.0	16.0	15.0	455-1941-1-ND	6.21	51.79	207.15	1,000	343.87	14FMN-BMTTR-A-TB(LF)(SN)
	16	15.0	18.0	17.0	455-1944-1-ND	6.96	58.03	232.12	2,000	770.64	16FMN-BMTTR-A-TB(LF)(SN)
	18	17.0	20.0	19.0	455-1948-1-ND	7.50	62.48	249.93	2,000	829.77	18FMN-BMTTR-A-TB(LF)(SN)
	20	19.0	22.0	21.0	455-1950-1-ND	8.25	68.73	274.90	1,000	456.33	20FMN-BMTTR-A-TB(LF)(SN)
Side Entry											
2	4	3.0	7.0	5.0	455-1919-1-ND	3.36	28.01	112.05	2,000	186.01/M	04FMN-SMT-A-TF(LF)(SN)
	5	4.0	8.0	6.0	455-1921-1-ND	3.63	30.24	120.95	2,000	200.78/M	05FMN-SMT-A-TF(LF)(SN)
	6	5.0	9.0	7.0	455-1923-1-ND	3.89	32.41	129.63	2,000	215.19/M	06FMN-SMT-A-TF(LF)(SN)
	7	6.0	10.0	8.0	455-1924-1-ND	4.16	34.64	138.54	2,000	229.98/M	07FMN-SMT-A-TF(LF)(SN)
	8	7.0	11.0	9.0	455-1927-1-ND	4.55	37.89	151.57	2,000	251.61/M	08FMN-SMT-A-TF(LF)(SN)
	9	8.0	12.0	10.0	455-1929-1-ND	4.81	40.06	160.25	2,000	266.02/M	09FMN-SMT-A-TF(LF)(SN)
	10	9.0	13.0	11.0	455-1934-1-ND	5.07	42.29	169.16	2,000	280.81/M	10FMN-SMT-A-TF(LF)(SN)
	12	11.0	15.0	13.0	455-1937-1-ND	5.75	47.93	191.73	2,000	318.27/M	12FMN-SMT-A-TF(LF)(SN)
	13	12.0	16.0	14.0	455-1939-1-ND	5.98	49.86	199.45	2,000	331.09/M	13FMN-SMT-A-TF(LF)(SN)
	14	13.0	17.0	15.0	455-1942-1-ND	6.21	51.79	207.15	2,000	343.87/M	14FMN-SMT-A-TF(LF)(SN)
	16	15.0	19.0	17.0	455-1945-1-ND	6.96	58.03	232.12	2,000	385.32/M	16FMN-SMT-A-TF(LF)(SN)
	20	19.0	23.0	21.0	455-1951-1-ND	8.25	68.73	274.90	2,000	456.34/M	20FMN-SMT-A-TF(LF)(SN)
	24	23.0	27.0	25.0	455-1953-1-ND	9.76	81.32	325.28	2,000	539.97/M	24FMN-SMT-A-TF(LF)(SN)
	26	25.0	29.0	27.0	455-1955-1-ND	10.29	85.77	343.08	2,000	569.52/M	26FMN-SMT-A-TF(LF)(SN)
	28	27.0	31.0	29.0	455-1956-1-ND	10.88	90.63	362.51	2,000	601.77/M	28FMN-SMT-A-TF(LF)(SN)

‡ For Tape and Reel part number, change 1-ND to 2-ND.

HIROSE ELECTRIC CO.,LTD. High Density FFC/FPC Connectors

FH29 Series (0.2mm Pitch)

Features: • Space saving 0.2mm of contact spacing FPC connectors • Easy mounting in double-sided lead design: 0.4mm mounting lead pitch • FPC alignment mechanism enables high connection reliability • Suitable for FPC with mating area thickness of 0.2mm • The flip-lock (one-touch rotating system) Zero Insertion Force (ZIF) structure allows easy and reliable FPC connection
Applications: • Mobile phones, LCDs, Digital video cameras (DVC), Digital cameras (DSC), Portable terminals (PDA), Camera modules, Portable equipment
Specifications: • Current Rating: 0.25A • Operating Temperature: -55°C ~ 85°C

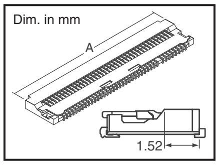

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel‡ Pricing 5,000	Hirose Part No.
			1	25	100		
34	8.62	HFD034CT-ND	3.86	3.00	2.40	1663.00/M	FH29-34S-0.2SHW(05)
40	9.82	HFD040CT-ND	4.00	3.11	2.49	1725.00/M	FH29-40S-0.2SHW(05)
44	10.62	HFD044CT-ND	4.09	3.18	2.54	1763.00/M	FH29-44S-0.2SHW(05)
50	11.82	HFD050CT-ND	4.58	3.56	2.85	1975.00/M	FH29-50S-0.2SHW(05)
70	15.82	HFD070CT-ND	4.90	3.81	3.05	2113.00/M	FH29-70S-0.2SHW(05)
80	17.82	HFD080CT-ND	5.13	3.99	3.19	2213.00/M	FH29-80S-0.2SHW(05)
90	19.82	HFD090CT-ND	5.57	4.32	3.46	—	FH29-90S-0.2SHW(05)
120	25.82	HFD120CT-ND	6.90	5.36	4.29	2975.00/M	FH29-120S-0.2SHW(05)

‡ For Tape and Reel part number, change CT-ND to TR-ND.

FH16, FH16H, FH16M and FH16P Series (0.3mm/0.4mm/0.5mm Pitch)

Features: The FH16 Series is a fine pitch, Zero Insertion Force (ZIF), right angle, bottom contact connector compatible with Flat Flex Cables (FFC) or flexible printed circuits (FPC) with a pitch of 0.3mm, 0.4mm and 0.5mm. A recommended thickness of 0.295mm for single-sided or 0.306mm for double-sided. The flip-lock (one-touch rotating type) ZIF structure secures the FFC/FPC connection with a single and light force. This design helps simplify assembly and repair work. When locking the FFC/FPC, the audible click will assure of a steady FFC/FPC connection resulting in improved customer service. Embossed tape packaging allows for automatic placement onto the PCB.

Applications: • Notebook computers, printers, PDAs, digital cameras and other compact devices for interconnecting the main circuit board with the LCD, PDP (Plasma Display), HDD or other device

Specifications: • Operating Temperature: -40°C ~ 70°C • Insulation Resistance: 500MΩ minimum • Contact Resistance: 150mΩ maximum (including FFC/FPC conductor resistance)

Materials: • Insulators: Polyamide and LCP - Beige, PPS - Deep Brown; UL94V-0 • Contacts: Phosphor Bronze - Solder plating

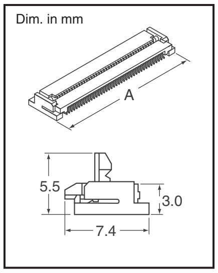

Ratings:			
Pitch	0.3mm	0.4mm	0.5mm
Current Rating	0.15A	0.3A	0.4A
Voltage Rating	30 VAC	50 VAC	60 VAC

No. of Pos.	Contact Pitch (mm)	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel‡ Pricing 1,000	Hirose Part No.
				1	10	100		
60	0.3	21.9	HFP060CT-ND HFP160CT-ND†◆	6.06 6.47	5.02 5.36	3.77 4.02	2717.00 2899.00	FH16-60S-0.3SHW FH16-60S-0.3SHW(05)
80	0.3	27.9	HFP080CT-ND HFP180CT-ND†◆	6.82 6.60	5.64 5.59	4.23 4.20	3055.00 3239.00	FH16-80S-0.3SHW FH16-80S-0.3SHW(05)
90	0.3	30.9	HFP090CT-ND HFP190CT-ND†◆	7.22 7.02	5.98 5.94	4.49 4.46	3237.00 3443.00	FH16-90S-0.3SHW FH16-90S-0.3SHW(05)
50	0.5	29.4	HFP050CT-ND HFP150CT-ND†◆	4.67 6.03	3.87 5.00	2.90 3.75	2093.00 2704.00	FH16H-50S-0.5SHW FH16H-50S-0.5SHW(05)
96	0.4	42.5	HFP096CT-ND HFP196CT-ND†◆	7.08 7.25	5.86 6.14	4.40 4.61	3172.00 3557.00	FH16M-96S-0.4SHW FH16M-96S-0.4SHW(05)
64	0.5	36.0	HFP064CT-ND HFP164CT-ND†◆	5.97 6.61	4.95 5.48	3.71 4.11	2678.00 2964.00	FH16P-64S-0.5SHW FH16P-64S-0.5SHW(05)

† Gold Plating ◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND.

FH23 Series (0.3mm Pitch) Flexible Printed Circuit Connectors

Features: • Provided with a flexible printed circuit (FPC) temporary hold mechanism, thus preventing the shift of the FPC and connector after FPC insertion • Only slight force is required to lock the flip-lock (one-touch rotating system) Low Insertion Force (LIF) structure
Applications: • Mobile phones, LCD, digital video camera (DVC), digital cameras (DSC), portable terminals (PDA), camera modules, portable equipment
Specifications: • Current Rating: 0.3A DC • Voltage Rating: 30VAC • Operating Temperature: -55°C ~ 85°C • Insulation Resistance: 50MΩ minimum @ 100VDC • Contact Resistance: 100mΩ maximum @ 90VAC/one minute (Including FPC/FFC conductor resistance)
Materials: • Insulators: LCP, Beige; LCP, black; UL94V-0 • Contacts: Phosphor bronze, tin plating

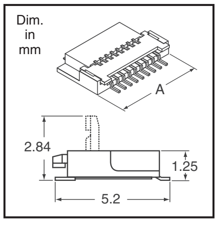

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each				Tape & Reel‡ Pricing 2,500	Hirose Part No.
			1	25	100	250		
Lead-less								
15	7.0 7.0	HFQ15CT-ND HFQ515CT-ND†◆	1.79 2.18	1.38 1.68	1.10 1.34	.92 1.12	701.00/M 854.00/M	FH23-15S-0.3SHAW(51) FH23-15S-0.3SHAW(05)
17	7.6 7.6	HFQ17CT-ND HFQ517CT-ND†◆	1.92 2.24	1.48 1.73	1.18 1.38	.98 1.15	— 880.00/M	FH23-17S-0.3SHAW(51) FH23-17S-0.3SHAW(05)
21	8.8	HFQ621CT-ND†◆	2.50	1.93	1.54	1.28	982.00/M	FH23-21S-0.3SHAW(05)
25	10	HFQ625CT-ND†◆	2.67	2.05	1.64	1.37	1046.00/M	FH23-25S-0.3SHAW(05)
27	10.6 10.6	HFQ27CT-ND HFQ527CT-ND†◆	2.28 2.73	1.75 2.10	1.40 1.68	1.17 1.40	893.00/M 1071.00/M	FH23-27S-0.3SHAW(51) FH23-27S-0.3SHAW(05)
31	11.8 11.8	HFQ31CT-ND HFQ531CT-ND†◆	2.41 2.86	1.85 2.20	1.48 1.76	1.23 1.47	944.00/M 1122.00/M	FH23-31S-0.3SHAW(51) FH23-31S-0.3SHAW(05)
33	12.4 12.4	HFQ33CT-ND HFQ533CT-ND†◆	2.50 3.09	1.93 2.38	1.54 1.90	1.28 1.58	— 1211.00/M	FH23-33S-0.3SHAW(51) FH23-33S-0.3SHAW(05)
39	14.2 14.2	HFQ39CT-ND HFQ539CT-ND†◆	2.76 3.02	2.13 2.34	1.70 1.88	1.42 1.51	1084.00/M 1326.00/M	FH23-39S-0.3SHAW(51) FH23-39S-0.3SHAW(05)
45	16.0 16.0	HFQ45CT-ND HFQ545CT-ND†◆	3.06 3.31	2.35 2.57	1.88 2.06	1.57 1.66	— 1454.00/M	FH23-45S-0.3SHAW(51) FH23-45S-0.3SHAW(05)
51	17.8 17.8	HFQ51CT-ND HFQ551CT-ND†◆	3.02 3.15	2.34 2.43	1.88 1.94	1.51 1.62	1326.00/M 1237.00/M	FH23-51S-0.3SHAW(52) FH23-51S-0.3SHAW(06)
61	20.8 20.8	HFQ61CT-ND HFQ561CT-ND†◆	3.34 4.09	2.59 3.18	2.07 2.54	1.67 2.05	— 1798.00/M	FH23-61S-0.3SHAW(51) FH23-61S-0.3SHAW(05)
Leaded								
15	7	HFQ615CT-ND†◆	2.08	1.60	1.28	1.07	854.00/M	FH23-15S-0.3SHW(05)
17	7.6 7.6	HFQ117CT-ND HFQ417CT-ND†◆	1.92 2.24	1.48 1.73	1.18 1.38	.98 1.15	752.00/M 880.00/M	FH23-17S-0.3SHW(51) FH23-17S-0.3SHW(05)
21	8.8 8.8	HFQ221CT-ND†◆ HFQ121CT-ND	2.50 2.08	1.93 1.60	1.54 1.28	1.28 1.07	982.00/M —	FH23-21S-0.3SHW(05) FH23-21S-0.3SHW(51)
25	10.0 10.0	HFQ125CT-ND HFQ425CT-ND†◆	2.21 2.67	1.70 2.05	1.36 1.64	1.13 1.37	867.00/M 1046.00/M	FH23-25S-0.3SHW(51) FH23-25S-0.3SHW(05)
27	10.6 10.6	HFQ127CT-ND HFQ427CT-ND†◆	2.28 2.73	1.75 2.10	1.40 1.68	1.17 1.40	893.00/M 1071.00/M	FH23-27S-0.3SHW(51) FH23-27S-0.3SHW(05)
31	11.8	HFQ131CT-ND	2.41	1.85	1.48	1.23	944.00/M	FH23-31S-0.3SHW(51)
33	12.4 12.4	HFQ133CT-ND HFQ433CT-ND†◆	2.50 3.09	1.93 2.38	1.54 1.90	1.28 1.58	982.00/M 1211.00/M	FH23-33S-0.3SHW(51) FH23-33S-0.3SHW(05)
39	14.2 14.2	HFQ139CT-ND HFQ439CT-ND†◆	2.76 3.02	2.13 2.34	1.70 1.88	1.42 1.51	1084.00/M 1326.00/M	FH23-39S-0.3SHW(51) FH23-39S-0.3SHW(05)
45	16	HFQ645CT-ND†◆	3.31	2.57	2.06	1.66	1454.00/M	FH23-45S-0.3SHW(05)
51	17.8	HFQ651CT-ND†◆	3.15	2.43	1.94	1.62	1237.00/M	FH23-51S-0.3SHW(06)
61	20.8	HFQ461CT-ND†◆	4.09	3.18	2.54	2.05	1798.00/M	FH23-61S-0.3SHW(05)

† Gold Plating ◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND.

FH18 Series (0.3mm Pitch) Flex Connectors Low Profile

Features: • Contact spacing (pitch) 0.3mm • Flexible Printed Circuits (FPC) with contact spacing of 0.3mm are used with increased frequency (These connectors occupy less board space and are lighter than comparable connectors with contacts spaced at 0.5mm)

Applications: • Consumer electronics, portable equipment, cameras, PDAs and other devices where board space and component packaging requires ultra small interconnection.

Specifications: • Current Rating: 0.15A • Temperature Range: -40°C ~ 70°C • Voltage Rating: 30VAC

Materials: • Insulators: LCP, Body - Beige; Latch - Black; UL94V-0 • Contacts: Phosphor bronze, tin-lead plated; Metal Fitting: Bronze, tin-lead plated

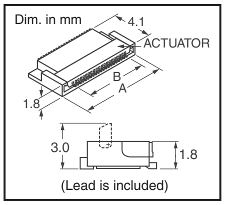

No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Cut Tape Price Each				Tape & Reel‡ Pricing 2,500	Hirose Part No.
	A	B		1	25	100	250		
17	7.6 7.6	4.8 4.8	HFM17CT-ND HFM117CT-ND◆	1.69 1.89	1.30 1.45	1.04 1.16	.87 .97	663.00/M 740.00/M	FH18-17S-0.3SHW FH18-17S-0.3SHW(55)
21	8.8 8.8	6.0 6.0	HFM21CT-ND HFM121CT-ND◆	1.72 1.98	1.33 1.53	1.06 1.22	.88 1.02	676.00/M 778.00/M	FH18-21S-0.3SHW FH18-21S-0.3SHW(55)
25	10.0 10.0	7.2 7.2	HFM25CT-ND HFM125CT-ND◆	1.92 2.21	1.48 1.70	1.18 1.36	.98 1.13	752.00/M 867.00/M	FH18-25S-0.3SHW FH18-25S-0.3SHW(55)
27	10.6	7.8	HFM127CT-ND◆	2.24	1.73	1.38	1.15	880.00/M	FH18-27S-0.3SHW(55)
39	14.2 14.2	11.4 11.4	HFM39CT-ND HFM139CT-ND◆	2.21 2.67	1.70 2.05	1.36 1.64	1.13 1.37	— 1046.00/M	FH18-39S-0.3SHW FH18-39S-0.3SHW(55)
51	17.8 17.8	15.0 15.0	HFM51CT-ND HFM151CT-ND◆	2.50 3.09	1.93 2.38	1.54 1.90	1.28 1.58	— 1211.00/M	FH18-51S-0.3SHW FH18-51S-0.3SHW(55)

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND.

FH26 Series (0.3mm Pitch) Flexible Printed Circuit ZIF Connectors

Features: • Space saving design: connector height is 1.0mm and the depth of the mounting area is 3.2mm • Flip lock actuator allows easy insertion of FPC • Metal FPC insertion guide makes it easy to insert FPC
Applications: • Mobile phone, LCD application, digital video camera, digital camera, PDA, camera module, compact electronic equipment
Specifications: • Current Rating: 0.2A • Voltage Rating: 30VAC • Operating Temperature: -55°C ~ 85°C
Materials: • Insulator: Polyamide, LCP, black, UL94V-0 • Actuator PA, dark brown, UL94V-0 • Contacts: Phosphor bronze, gold plated • Metal fitting: Phosphor bronze, tin plated (lead free)

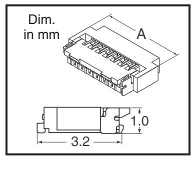

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each				Tape & Reel‡ Pricing 5,000	Hirose Part No.
			1	25	100	250		
13	5.4	HFQ313CT-ND	2.21	1.70	1.36	1.13	850.00/M	FH26-13S-0.3SHW(05)
15	6.0	HFQ315CT-ND	2.28	1.75	1.40	1.17	875.00/M	FH26-15S-0.3SHW(05)
17	6.6	HFQ317CT-ND	2.41	1.85	1.48	1.23	925.00/M	FH26-17S-0.3SHW(05)
21	7.8	HFQ321CT-ND	2.54	1.95	1.56	1.30	975.00/M	FH26-21S-0.3SHW(05)
23	8.4	HFQ323CT-ND	2.63	2.03	1.62	1.35	1013.00/M	FH26-23S-0.3SHW(05)
25	9.0	HFQ325CT-ND	2.70	2.08	1.66	1.38	1038.00/M	FH26-25S-0.3SHW(05)
27	9.6	HFQ327CT-ND	2.76	2.13	1.70	1.42	1063.00/M	FH26-27S-0.3SHW(05)
29	10.2	HFQ329CT-ND	2.89	2.23	1.78	1.48	1113.00/M	FH26-29S-0.3SHW(05)
31	10.8	HFQ331CT-ND	2.93	2.25	1.80	1.50	1125.00/M	FH26-31S-0.3SHW(05)
33	11.4	HFQ333CT-ND	2.99	2.30	1.84	1.53	1150.00/M	FH26-33S-0.3SHW(05)
35	12.0	HFQ335CT-ND	3.12	2.40	1.92	1.60	1200.00/M	FH26-35S-0.3SHW(05)
39	13.2	HFQ339CT-ND	2.90	2.25	1.80	1.45	1250.00/M	FH26-39S-0.3SHW(05)
41	13.8	HFQ341CT-ND	2.99	2.32	1.86	1.50	1288.00/M	FH26-41S-0.3SHW(05)
45	15.0	HFQ345CT-ND	3.10	2.41	1.93	1.56	1338.00/M	FH26-45S-0.3SHW(05)
51	16.8	HFQ351CT-ND	3.36	2.61	2.09	1.69	1450.00/M	FH26-51S-0.3SHW(05)
57	18.6	HFQ357CT-ND	3.65	2.84	2.27	1.83	1575.00/M	FH26-57S-0.3SHW(05)
61	19.8	HFQ361CT-ND	3.74	2.91	2.33	1.88	1613.00/M	FH26-61S-0.3SHW(05)
71	22.8	HFQ371CT-ND	4.12	3.20	2.56	2.06	1775.00/M	FH26-71S-0.3SHW(05)

‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO.,LTD. High Density FFC/FPC Connectors *(Cont.)*

FH19(C) and FH19S(C) Series Flex Connectors (0.5mm Pitch) Flat Flex Cable and Flexible Printed Circuit

Features: • Conductive traces on the PCB can be designed to run under the connector. The bottom surface of the connector is solid, without any exposure of the contact • Accepts 0.2mm and 0.3mm thick FPC and FFC, easily inserted in the connector • The connector will also terminate successfully with 0.2mm thick Flat Flexible Cable (FFC) **Applications:** • Notebook PC's, PDAs, digital cameras and other compact devices requiring interconnection of the main circuit board with the LCD, plasma display (PDP), HDD or other devices

Specifications: • Current Rating: 0.5A DC • Voltage Rating: 50VAC • Operating Temperature: -55°C ~ 85°C • Operating Humidity Range: Relative humidity 90% maximum (No condensation) • Insulation Resistance: 500MΩ minimum @ 100VDC • Contact Resistance: 100mΩ maximum @1mA (Including FPC/FFC conductor resistance) • *FH19(C) Series:* Thickness: 0.2 ± 0.03mm tin or gold plating* • *FH19S(C) Series:* Thickness: 0.3 ± 0.03mm tin or gold plating*

Materials: • Insulators: LCP: beige; PPS: *FH19(C) Series:* dark brown, *FH19S(C) Series:* black; all UL94V-0 • Contacts: Phosphor bronze, gold flash or tin plating* • Metal fittings: Phosphor bronze, pure tin reflow plating

* ***Note:*** *When FPC is gold plated, connector contacts should also be gold plated*

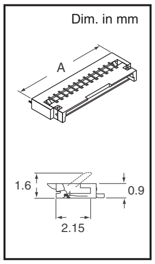

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	T&R Pricing‡ 5,000	Hirose Part No.
9	6.5	HFN09CT-ND	1.67	1.39	1.03	.86	643.00/M	FH19-9S-0.5SH(51)
13	8.5	HFN13CT-ND	1.82	1.51	1.12	.93	699.00/M	FH19-13S-0.5SH(51)
17	10.5	HFN17CT-ND	1.91	1.59	1.18	.98	734.00/M	FH19-17S-0.5SH(51)
20	12.0	HFN20CT-ND	2.03	1.69	1.26	1.04	783.00/M	FH19-20S-0.5SH(51)
30	17.0	HFN30CT-ND	2.39	1.99	1.47	1.23	—	FH19-30S-0.5SH(51)
9	6.5	HFN109CT-ND†◆	1.80	1.50	1.11	.93	694.00/M	FH19-9S-0.5SH(05)
13	8.5	HFN113CT-ND†◆	2.01	1.67	1.24	1.03	771.00/M	FH19-13S-0.5SH(05)
17	10.5	HFN117CT-ND†◆	2.16	1.80	1.33	1.11	830.00/M	FH19-17S-0.5SH(05)
20	12.0	HFN120CT-ND†◆	2.33	1.94	1.44	1.19	895.00/M	FH19-20S-0.5SH(05)
30	17.0	HFN130CT-ND†◆	2.83	2.36	1.75	1.45	1089.00/M	FH19-30S-0.5SH(05)
12	8.0	HFN212CT-ND	1.75	1.45	1.08	.90	671.00/M	FH19S-12S-0.5SH(51)
17	10.5	HFN217CT-ND	1.91	1.59	1.18	.98	734.00/M	FH19S-17S-0.5SH(51)
18	11.0	HFN218CT-ND	1.97	1.64	1.22	1.01	758.00/M	FH19S-18S-0.5SH(51)
20	12.0	HFN220CT-ND	2.03	1.69	1.26	1.04	783.00/M	FH19S-20S-0.5SH(51)
22	13.0	HFN222CT-ND	2.11	1.75	1.30	1.08	810.00/M	FH19S-22S-0.5SH(51)
24	14.0	HFN224CT-ND	2.18	1.81	1.34	1.12	—	FH19S-24S-0.5SH(51)
26	15.0	HFN226CT-ND	2.26	1.88	1.39	1.16	—	FH19S-26S-0.5SH(51)
27	15.5	HFN227CT-ND	2.31	1.93	1.43	1.19	890.00/M	FH19S-27S-0.5SH(51)
12	8.0	HFN312CT-ND†◆	1.92	1.60	1.19	.99	740.00/M	FH19S-12S-0.5SH(05)
17	10.5	HFN317CT-ND†◆	2.16	1.80	1.33	1.11	830.00/M	FH19S-17S-0.5SH(05)
18	11.0	HFN318CT-ND†◆	2.24	1.86	1.38	1.15	860.00/M	FH19S-18S-0.5SH(05)
20	12.0	HFN320CT-ND†◆	2.33	1.94	1.44	1.19	—	FH19S-20S-0.5SH(05)
22	13.0	HFN322CT-ND†◆	2.43	2.02	1.50	1.24	934.00/M	FH19S-22S-0.5SH(05)
24	14.0	HFN324CT-ND†◆	2.53	2.11	1.56	1.30	974.00/M	FH19S-24S-0.5SH(05)
26	15.0	HFN326CT-ND†◆	2.64	2.20	1.63	1.35	1016.00/M	FH19S-26S-0.5SH(05)
27	15.5	HFN327CT-ND†◆	2.71	2.26	1.67	1.39	1043.00/M	FH19S-27S-0.5SH(05)
50	27.0	HFN350CT-ND†◆	3.60	2.98	2.24	1.80	1550.00/M	FH19S-50S-0.5SH(05)
Improved Actuator Design — RoHS Compliant								
4	4.0	HFN404CT-ND†	1.56	1.28	.93	.78	523.00/M	FH19C-4S-0.5SH(05)
6	5.0	HFN406CT-ND†	1.67	1.37	.99	.84	561.00/M	FH19C-6S-0.5SH(05)
7	5.5	HFN407CT-ND†	1.75	1.43	1.04	.88	587.00/M	FH19C-7S-0.5SH(05)
8	6.0	HFN408CT-ND†	1.79	1.46	1.06	.90	599.00/M	FH19C-8S-0.5SH(05)
9	6.5	HFN409CT-ND†	1.82	1.49	1.08	.92	612.00/M	FH19C-9S-0.5SH(05)
10	7.0	HFN410CT-ND†	1.86	1.52	1.11	.94	625.00/M	FH19C-10S-0.5SH(05)
12	8.0	HFN412CT-ND†	1.69	1.41	1.04	.87	650.00/M	FH19C-12S-0.5SH(05)
13	8.5	HFN413CT-ND†	1.76	1.46	1.08	.90	675.00/M	FH19C-13S-0.5SH(05)
15	9.5	HFN415CT-ND†	1.82	1.52	1.12	.93	700.00/M	FH19C-15S-0.5SH(05)
17	10.5	HFN417CT-ND†	1.89	1.57	1.16	.97	725.00/M	FH19C-17S-0.5SH(05)
20	12.0	HFN420CT-ND†	2.02	1.68	1.24	1.03	775.00/M	FH19C-20S-0.5SH(05)
21	12.5	HFN421CT-ND†	2.08	1.73	1.28	1.07	800.00/M	FH19C-21S-0.5SH(05)
24	14.0	HFN424CT-ND†	2.21	1.84	1.36	1.13	850.00/M	FH19C-24S-0.5SH(05)
27	15.5	HFN427CT-ND†	2.34	1.95	1.44	1.20	900.00/M	FH19C-27S-0.5SH(05)
30	17.0	HFN430CT-ND†	2.47	2.06	1.52	1.27	950.00/M	FH19C-30S-0.5SH(05)
4	4.0	HFN504CT-ND†	1.56	1.28	.93	.78	523.00/M	FH19SC-4S-0.5SH(05)
5	4.5	HFN505CT-ND†	1.63	1.34	.97	.82	548.00/M	FH19SC-5S-0.5SH(05)
6	5.0	HFN506CT-ND†	1.67	1.37	.99	.84	561.00/M	FH19SC-6S-0.5SH(05)
8	6.0	HFN508CT-ND†	1.79	1.46	1.06	.90	599.00/M	FH19SC-8S-0.5SH(05)
9	6.5	HFN509CT-ND†	1.82	1.49	1.08	.92	612.00/M	FH19SC-9S-0.5SH(05)
10	7.0	HFN510CT-ND†	1.86	1.52	1.11	.94	625.00/M	FH19SC-10S-0.5SH(05)
12	8.0	HFN512CT-ND†	1.69	1.41	1.04	.87	650.00/M	FH19SC-12S-0.5SH(05)
13	8.5	HFN513CT-ND†	1.76	1.46	1.08	.90	675.00/M	FH19SC-13S-0.5SH(05)
14	9.0	HFN514CT-ND†	1.76	1.46	1.08	.90	675.00/M	FH19SC-14S-0.5SH(05)
15	9.5	HFN515CT-ND†	1.82	1.52	1.12	.93	700.00/M	FH19SC-15S-0.5SH(05)
16	10.0	HFN516CT-ND†	1.85	1.54	1.14	.95	713.00/M	FH19SC-16S-0.5SH(05)
17	10.5	HFN517CT-ND†	1.89	1.57	1.16	.97	725.00/M	FH19SC-17S-0.5SH(05)
18	11.0	HFN518CT-ND†	1.95	1.62	1.20	1.00	750.00/M	FH19SC-18S-0.5SH(05)
20	12.0	HFN520CT-ND†	2.02	1.68	1.24	1.03	775.00/M	FH19SC-20S-0.5SH(05)
21	12.5	HFN521CT-ND†	2.08	1.73	1.28	1.07	800.00/M	FH19SC-21S-0.5SH(05)
22	13.0	HFN522CT-ND†	2.11	1.76	1.30	1.08	813.00/M	FH19SC-22S-0.5SH(05)
24	14.0	HFN524CT-ND†	2.21	1.84	1.36	1.13	850.00/M	FH19SC-24S-0.5SH(05)
26	15.0	HFN526CT-ND†	2.31	1.92	1.42	1.18	888.00/M	FH19SC-26S-0.5SH(05)
27	15.5	HFN527CT-ND†	2.34	1.95	1.44	1.20	900.00/M	FH19SC-27S-0.5SH(05)
28	16.0	HFN528CT-ND†	2.37	1.98	1.46	1.22	913.00/M	FH19SC-28S-0.5SH(05)
30	17.0	HFN530CT-ND†	2.47	2.06	1.52	1.27	950.00/M	FH19SC-30S-0.5SH(05)
32	18.0	HFN532CT-ND†	2.54	2.11	1.56	1.30	975.00/M	FH19SC-32S-0.5SH(05)
40	22.0	HFN540CT-ND†	3.09	2.57	1.90	1.58	1188.00/M	FH19SC-40S-0.5SH(05)
45	24.5	HFN545CT-ND†	2.96	2.45	1.84	1.48	1275.00/M	FH19SC-45S-0.5SH(05)
50	27	HFN550CT-ND†	3.13	2.60	1.95	1.57	1350.00/M	FH19SC-50S-0.5SH(05)

† Gold Plating ◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND.

0.5mm FFC/FPC Connectors FH33 Series — Single-sided Lead, Bottom Contact

Specifications: • Current Rating: 0.5A maximum • PBC Mount Type: SMT • Contact Mating Area Plating: Gold • Terminal Pitch: 0.5mm • Contact Spacing: 0.5mm

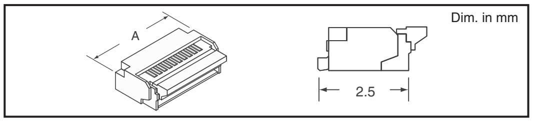

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	Digi-Key Part No.	Tape and Reel Pricing 5,000	Hirose Part No.
6	5.0	HFS06CT-ND	1.56	1.28	.93	.78	HFS06TR-ND	523.00/M	FH33-6S-0.5SH(10)
9	6.5	HFS09CT-ND	1.63	1.34	.97	.82	HFS09TR-ND	548.00/M	FH33-9S-0.5SH(10)
10	7.0	HFS10CT-ND	1.67	1.37	.99	.84	HFS10TR-ND	561.00/M	FH33-10S-0.5SH(10)
12	8.0	HFS12CT-ND	1.75	1.43	1.04	.88	HFS12TR-ND	587.00/M	FH33-12S-0.5SH(10)
14	9.0	HFS14CT-ND	1.79	1.46	1.06	.90	HFS14TR-ND	599.00/M	FH33-14S-0.5SH(10)
26	15.0	HFS26CT-ND	1.82	1.52	1.12	.93	HFS26TR-ND	700.00/M	FH33-26S-0.5SH(10)
28	16.0	HFS28CT-ND	1.89	1.57	1.16	.97	HFS28TR-ND	725.00/M	FH33-28S-0.5SH(10)

0.5mm FFC/FPC Connectors FH34 Series — Top Contact Version of FH19S(C)

Features: • Low profile and space saving 1.0mm of height and 3.8mm of mounting depth top contact connectors • Increased FPC/FFC retention force • Unique back flip ZIF structure enables user-friendly and reliable connection • Smooth FPC/FFC insertion with tapers at housing opening • Smooth FPC/FFC insertion with actuator delivered in open position

Applications: • Mobile phones • Digital cameras • Digital video cameras • Portable terminals • DVD • CD-R/W • Notebook PC • Game machines

Specifications: • Current Rating: 0.5A maximum • PCB Mount Type: SMT • Contact Mating Area Plating: Gold • Terminal Pitch: 0.5mm • Contact Spacing: 0.5mm • Operating Temperature: -55°C ~ 85°C

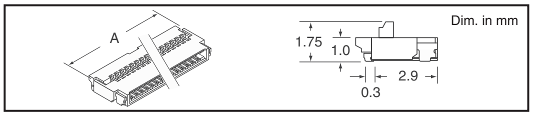

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	Digi-Key Part No.	Tape and Reel Pricing 2,500	Hirose Part No.
4	4.0	HFT04CT-ND	3.00	2.50	1.85	1.54	HFT04TR-ND	1178.00/M	FH34S-4S-0.5SH(10)
8	6.0	HFT08CT-ND	2.93	2.43	1.82	1.47	HFT08TR-ND	1288.00/M	FH34S-8S-0.5SH(10)
14	9.0	HFT14CT-ND	1.83	1.52	1.13	.94	HFT14TR-ND	718.00/M	FH34S-14S-0.5SH(10)
30	17.0	HFT30CT-ND	4.21	3.48	2.61	2.11	HFT30TR-ND	1849.00/M	FH34S-30S-0.5SH(10)

0.5mm and 1.0mm FFC/FPC Connectors FH12, FH12A, FH12F and FH12S Series — "Flip-Lock" SMT/ZIF Type Flexible Printed Circuit Board Connectors

The FH12 Series of miniature connectors for FPC/FFC use brings form to the newly developed "flip-lock" concept and can be used with Surface Mount Technology (SMT) to eliminate the problems of the contemporary slide-lock system. These connectors have a contact spacing of 0.5mm, are suited to high density mounting, and are based on a single-action Zero Insertion Force (ZIF) structure for easy connections. Types with top or bottom contacts, and vertical mounting are available to suit your applications.

Materials/Finish: • **Insulation**: Polyamide Resin, beige; PPS Resin, dark brown (UL94V-0) • **Contacts**: Phosphor Bronze, solder plating

Electrical: • **Rated Current**: 0.4A • **Insulation Resistance**: 500MΩ or greater at 100VDC • **Withstanding Voltage**: 150VAC for one minute • **Contact Resistance**: 50mΩ or less *(**Note:** When all conductors are to continuously carry the rated current, set the current to 70% of the rated current value.)*

Dim. in mm

Fig. 1

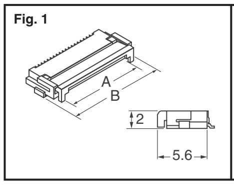

Fig. 2

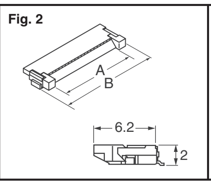

Fig. 3

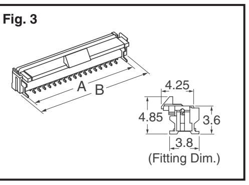

(Fitting Dim.)

Fig.	No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Hirose Part No.
.5mm Horizontal Mount — Bottom Contact Type												
1	11	6.07	9.6	HFJ11CT-ND	1.84	1.42	1.14	.94	HFJ11TR-ND	2,000	722.00/M	FH12-11S-0.5SH
	12	6.57	10.1	HFJ12CT-ND	1.84	1.42	1.14	.94	HFJ12TR-ND	2,000	722.00/M	FH12-12S-0.5SH
	13	7.07	10.6	HFJ13CT-ND	1.89	1.46	1.17	.97	—	—	—	FH12-13S-0.5SH
	14	7.57	11.1	HFJ14CT-ND	1.93	1.49	1.19	.99	HFJ14TR-ND	2,000	759.00/M	FH12-14S-0.5SH
	15	8.07	11.6	HFJ15CT-ND	1.98	1.53	1.22	1.02	—	—	—	FH12-15S-0.5SH

* ***Note:*** *The 1.0mm version of FH12 is constructed by loading every other contact into the 0.5mm housing*

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

0.5mm and 1.0mm Flex Connectors *(Cont.)*

Fig.	No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Hirose Part No.
		A	B		1	25	100	250		Qty.	Pricing	
1	16	8.57	12.1	HFJ16CT-ND	1.98	1.53	1.22	1.02	HFJ16TR-ND	2,000	778.00/M	FH12-16S-0.5SH
	17	9.07	12.6	HFJ17CT-ND	2.08	1.60	1.28	1.07	HFJ17TR-ND	2,000	815.00/M	FH12-17S-0.5SH
	19	10.07	13.6	HFJ19CT-ND	2.12	1.64	1.31	1.09	HFJ19TR-ND	2,000	833.00/M	FH12-19S-0.5SH
	20	10.57	14.1	HFJ20CT-ND	2.17	1.67	1.34	1.11	HFJ20TR-ND	2,000	852.00/M	FH12-20S-0.5SH
	22	11.57	15.1	HFJ22CT-ND	2.27	1.75	1.40	1.16	HFJ22TR-ND	2,000	889.00/M	FH12-22S-0.5SH
	26	13.57	17.1	HFJ26CT-ND	2.41	1.86	1.49	1.23	—	—	—	FH12-26S-0.5SH
	34	17.57	21.1	HFJ34CT-ND	2.74	2.11	1.69	1.40	—	—	—	FH12-34S-0.5SH
	45	23.07	26.6	HFJ45CT-ND	2.99	2.32	1.86	1.50	—	—	—	FH12-45S-0.5SH
	53	27.07	30.6	HFJ53CT-ND	3.28	2.55	2.04	1.64	HFJ53TR-ND	2,000	1441.00/M	FH12-53S-0.5SH
.5mm Horizontal Mount — Bottom Contact Type — RoHS Compliant												
1	6	3.57	7.1	HFJ106CT-ND	1.79	1.38	1.10	.92	—	—	—	FH12-6S-0.5SH(55)
	10	5.57	9.1	HFJ110CT-ND	1.98	1.53	1.22	1.02	HFJ110TR-ND	2,000	778.00/M	FH12-10S-0.5SH(55)
	11	6.07	9.6	HFJ111CT-ND	2.02	1.55	1.24	1.03	HFJ111TR-ND	2,000	791.00/M	FH12-11S-0.5SH(55)
	12	6.57	10.1	HFJ112CT-ND	2.08	1.60	1.28	1.07	HFJ112TR-ND	2,000	816.00/M	FH12-12S-0.5SH(55)
	14	7.07	11.1	HFJ114CT-ND	2.18	1.68	1.34	1.12	HFJ114TR-ND	2,000	854.00/M	FH12-14S-0.5SH(55)
	15	8.07	11.6	HFJ115CT-ND	2.28	1.75	1.40	1.17	HFJ115TR-ND	2,000	893.00/M	FH12-15S-0.5SH(55)
	16	8.57	12.1	HFJ116CT-ND	2.31	1.78	1.42	1.18	HFJ116TR-ND	2,000	905.00/M	FH12-16S-0.5SH(55)
	18	9.57	13.1	HFJ118CT-ND	2.47	1.90	1.52	1.27	HFJ118TR-ND	2,000	969.00/M	FH12-18S-0.5SH(55)
	20	10.57	14.1	HFJ120CT-ND	2.57	1.98	1.58	1.32	HFJ120TR-ND	2,000	1007.00/M	FH12-20S-0.5SH(55)
	22	11.57	15.1	HFJ122CT-ND	2.67	2.05	1.64	1.37	HFJ122TR-ND	2,000	1046.00/M	FH12-22S-0.5SH(55)
	24	12.57	16.1	HFJ124CT-ND	2.80	2.15	1.72	1.43	HFJ124TR-ND	2,000	1097.00/M	FH12-24S-0.5SH(55)
	26	13.57	17.1	HFJ126CT-ND	2.96	2.28	1.82	1.52	HFJ126TR-ND	2,000	1160.00/M	FH12-26S-0.5SH(55)
	30	15.57	19.1	HFJ130CT-ND	3.09	2.38	1.90	1.58	HFJ130TR-ND	2,000	1211.00/M	FH12-30S-0.5SH(55)
	32	16.57	20.1	HFJ132CT-ND	2.99	2.32	1.86	1.50	HFJ132TR-ND	2,000	1313.00/M	FH12-32S-0.5SH(55)
	33	17.07	20.6	HFJ133CT-ND	3.07	2.39	1.91	1.54	HFJ133TR-ND	2,000	1352.00/M	FH12-33S-0.5SH(55)
	34	17.57	21.1	HFJ134CT-ND	3.07	2.39	1.91	1.54	HFJ134TR-ND	2,000	1352.00/M	FH12-34S-0.5SH(55)
	36	18.57	22.1	HFJ136CT-ND	3.16	2.46	1.97	1.59	HFJ136TR-ND	2,000	1390.00/M	FH12-36S-0.5SH(55)
	40	20.57	24.1	HFJ140CT-ND	3.48	2.70	2.16	1.74	—	—	—	FH12-40S-0.5SH(55)
	45	23.07	26.6	HFJ145CT-ND	3.86	3.00	2.40	1.93	HFJ145TR-ND	2,000	1696.00/M	FH12-45S-0.5SH(55)
	50	25.57	29.1	HFJ150CT-ND	4.18	3.24	2.60	2.09	HFJ150TR-ND	2,000	1836.00/M	FH12-50S-0.5SH(55)
.5mm Horizontal Mount — Top Contact Type												
2	12	6.57	10.5	HFK12CT-ND	1.66	1.20	.99	.83	—	—	—	FH12A-12S-0.5SH
	15	8.07	12.0	HFK15CT-ND	1.82	1.32	1.08	.92	—	—	—	FH12A-15S-0.5SH
	16	8.57	12.5	HFK16CT-ND	1.88	1.36	1.12	.94	—	—	—	FH12A-16S-0.5SH
	22	11.57	15.5	HFK22CT-ND	1.89	1.46	1.17	.97	—	—	—	FH12A-22S-0.5SH
	29	15.07	19.0	HFK29CT-ND	2.17	1.67	1.34	1.11	HFK29TR-ND	2,000	852.00/M	FH12A-29S-0.5SH
	32	16.57	20.5	HFK32CT-ND	2.27	1.75	1.40	1.16	HFK32TR-ND	2,000	889.00/M	FH12A-32S-0.5SH
	34	17.57	21.5	HFK34CT-ND	2.41	1.86	1.49	1.23	HFK34TR-ND	2,000	945.00/M	FH12A-34S-0.5SH
	36	18.57	22.5	HFK36CT-ND	2.45	1.89	1.51	1.26	HFK36TR-ND	2,000	963.00/M	FH12A-36S-0.5SH
	42	21.57	25.5	HFK42CT-ND	2.79	2.15	1.72	1.43	HFK42TR-ND	2,000	1093.00/M	FH12A-42S-0.5SH
	45	23.07	27.0	HFK45CT-ND	2.93	2.25	1.80	1.50	HFK45TR-ND	2,000	1148.00/M	FH12A-45S-0.5SH
.5mm Horizontal Mount — Top Contact Type — RoHS Compliant												
2	10	5.57	9.5	HFK110CT-ND	1.86	1.35	1.11	.94	HFK110TR-ND	2,000	637.00/M	FH12A-10S-0.5SH(55)
	12	6.57	10.5	HFK112CT-ND	1.69	1.30	1.04	.87	HFK112TR-ND	2,000	663.00/M	FH12A-12S-0.5SH(55)
	16	8.57	12.5	HFK116CT-ND	1.92	1.48	1.18	.98	HFK116TR-ND	2,000	752.00/M	FH12A-16S-0.5SH(55)
	18	9.57	13.5	HFK118CT-ND	2.02	1.55	1.24	1.03	HFK118TR-ND	2,000	791.00/M	FH12A-18S-0.5SH(55)
	20	10.57	14.5	HFK120CT-ND	1.98	1.53	1.22	1.02	HFK120TR-ND	2,000	778.00/M	FH12A-20S-0.5SH(55)
	24	12.57	16.5	HFK124CT-ND	2.31	1.78	1.42	1.18	HFK124TR-ND	2,000	905.00/M	FH12A-24S-0.5SH(55)
	30	15.57	19.5	HFK130CT-ND	2.76	2.13	1.70	1.42	HFK130TR-ND	2,000	1084.00/M	FH12A-30S-0.5SH(55)
	32	16.57	20.5	HFK132CT-ND	2.86	2.20	1.76	1.47	HFK132TR-ND	2,000	1122.00/M	FH12A-32S-0.5SH(55)
	33	17.07	21.0	HFK133CT-ND	2.96	2.28	1.82	1.52	—	—	—	FH12A-33S-0.5SH(55)
	36	18.57	22.5	HFK136CT-ND	3.15	2.43	1.94	1.62	HFK136TR-ND	2,000	1237.00/M	FH12A-36S-0.5SH(55)
	40	20.57	24.5	HFK140CT-ND	3.07	2.39	1.91	1.54	HFK140TR-ND	2,000	1352.00/M	FH12A-40S-0.5SH(55)
	50	25.57	29.5	HFK150CT-ND	3.80	2.95	2.36	1.90	HFK150TR-ND	2,000	1670.00/M	FH12A-50S-0.5SH(55)
.5mm Vertical Mount												
3	12	7.5	9.4	HFL12CT-ND	1.66	1.20	.99	.83	—	—	—	FH12-12S-0.5SV
	13	8.0	9.9	HFL13CT-ND	1.77	1.28	1.05	.89	—	—	—	FH12-13S-0.5SV
	18	10.5	12.4	HFL18CT-ND	1.70	1.31	1.05	.87	HFL18TR-ND	1,000	696.00	FH12-18S-0.5SV
	45	24.0	25.9	HFL45CT-ND	3.02	2.33	1.86	1.55	—	—	—	FH12-45S-0.5SV
	49	26.0	27.9	HFL49CT-ND	3.21	2.47	1.98	1.64	HFL49TR-ND	1,000	1313.00	FH12-49S-0.5SV
.5mm Vertical Mount — RoHS Compliant												
3	10	6.5	8.4	HFL110CT-ND	1.72	1.33	1.06	.88	HFL110TR-ND	1,000	705.00	FH12-10S-0.5SV(55)
	12	7.5	9.4	HFL112CT-ND	1.92	1.48	1.18	.98	HFL112TR-ND	1,000	785.00	FH12-12S-0.5SV(55)
	15	9.0	10.9	HFL115CT-ND	2.18	1.68	1.34	1.12	HFL115TR-ND	1,000	891.00	FH12-15S-0.5SV(55)
	16	9.5	11.4	HFL116CT-ND	2.21	1.70	1.36	1.13	HFL116TR-ND	1,000	904.00	FH12-16S-0.5SV(55)
	18	10.5	12.4	HFL118CT-ND	2.37	1.83	1.46	1.22	HFL118TR-ND	1,000	971.00	FH12-18S-0.5SV(55)
	20	11.5	13.4	HFL120CT-ND	2.50	1.93	1.54	1.28	HFL120TR-ND	1,000	1024.00	FH12-20S-0.5SV(55)
	22	12.5	14.4	HFL122CT-ND	2.67	2.05	1.64	1.37	HFL122TR-ND	1,000	1091.00	FH12-22S-0.5SV(55)
	24	13.5	15.4	HFL124CT-ND	2.86	2.20	1.76	1.47	HFL124TR-ND	1,000	1170.00	FH12-24S-0.5SV(55)
	26	14.5	16.4	HFL126CT-ND	2.96	2.28	1.82	1.52	HFL126TR-ND	1,000	1210.00	FH12-26S-0.5SV(55)
	30	16.5	18.4	HFL130CT-ND	2.90	2.25	1.80	1.45	—	—	—	FH12-30S-0.5SV(55)
	33	18.0	19.9	HFL133CT-ND	3.16	2.46	1.97	1.59	HFL133TR-ND	1,000	1417.00	FH12-33S-0.5SV(55)
	36	19.5	21.4	HFL136CT-ND	3.51	2.73	2.18	1.76	HFL136TR-ND	1,000	1573.00	FH12-36S-0.5SV(55)
	40	21.5	23.4	HFL140CT-ND	3.80	2.95	2.36	1.90	HFL140TR-ND	1,000	1703.00	FH12-40S-0.5SV(55)
	45	24.0	25.9	HFL145CT-ND	4.06	3.15	2.52	2.03	HFL145TR-ND	1,000	1820.00	FH12-45S-0.5SV(55)
	50	26.5	28.4	HFL150CT-ND	4.35	3.38	2.70	2.18	HFL150TR-ND	1,000	1950.00	FH12-50S-0.5SV(55)
.5mm Horizontal Mount — Bottom Contact Type with 0.18mm FPC End Thickness												
1	6	3.57	7.1	HFR06CT-ND	1.88	1.36	1.12	.94	—	—	—	FH12F-6S-0.5SH
	10	5.57	9.1	HFR10CT-ND	1.70	1.31	1.05	.87	—	—	—	FH12F-10S-0.5SH
	12	6.57	10.1	HFR12CT-ND	1.84	1.42	1.14	.94	HFR12TR-ND	2,000	722.00/M	FH12F-12S-0.5SH
	13	7.07	10.6	HFR13CT-ND	1.89	1.46	1.17	.97	HFR13TR-ND	2,000	741.00/M	FH12F-13S-0.5SH
	14	7.57	11.1	HFR14CT-ND	1.93	1.49	1.19	.99	HFR14TR-ND	2,000	759.00/M	FH12F-14S-0.5SH
	15	8.07	11.6	HFR15CT-ND	1.98	1.53	1.22	1.02	HFR15TR-ND	2,000	778.00/M	FH12F-15S-0.5SH
	16	8.57	12.1	HFR16CT-ND	2.08	1.60	1.28	1.07	HFR16TR-ND	2,000	815.00/M	FH12F-16S-0.5SH
	18	9.57	13.1	HFR18CT-ND	2.12	1.64	1.31	1.09	HFR18TR-ND	2,000	833.00/M	FH12F-18S-0.5SH
	20	10.57	14.1	HFR20CT-ND	2.17	1.67	1.34	1.11	HFR20TR-ND	2,000	852.00/M	FH12F-20S-0.5SH
	22	11.57	15.1	HFR22CT-ND	2.27	1.75	1.40	1.16	HFR22TR-ND	2,000	889.00/M	FH12F-22S-0.5SH
	24	12.57	16.1	HFR24CT-ND	2.36	1.82	1.46	1.21	HFR24TR-ND	2,000	926.00/M	FH12F-24S-0.5SH
	26	13.57	17.1	HFR26CT-ND	2.41	1.86	1.49	1.23	HFR26TR-ND	2,000	945.00/M	FH12F-26S-0.5SH
	28	14.57	18.1	HFR28CT-ND	2.50	1.93	1.54	1.28	HFR28TR-ND	2,000	982.00/M	FH12F-28S-0.5SH
	30	15.57	19.1	HFR30CT-ND	2.64	2.04	1.63	1.35	HFR30TR-ND	2,000	1037.00/M	FH12F-30S-0.5SH
	32	16.57	20.1	HFR32CT-ND	2.74	2.11	1.69	1.40	—	—	—	FH12F-32S-0.5SH
	34	17.57	21.1	HFR34CT-ND	2.74	2.11	1.69	1.40	HFR34TR-ND	2,000	1074.00/M	FH12F-34S-0.5SH
	36	18.57	22.1	HFR36CT-ND	2.97	2.29	1.83	1.52	HFR36TR-ND	2,000	1167.00/M	FH12F-36S-0.5SH
	40	20.57	24.1	HFR40CT-ND	3.11	2.40	1.92	1.60	—	—	—	FH12F-40S-0.5SH
.5mm Horizontal Mount — Bottom Contact Type with Strengthened Lock Lever												
1	40	20.57	24.1	HFA40CT-ND	3.11	2.40	1.92	1.60	—	—	—	FH12S-40S-0.5SH
	45	23.07	26.6	HFA45CT-ND	2.99	2.32	1.86	1.50	—	—	—	FH12S-45S-0.5SH
	53	27.07	30.6	HFA53CT-ND	3.28	2.55	2.04	1.64	HFA53TR-ND	2,000	1441.00/M	FH12S-53S-0.5SH
.5mm Horizontal Mount — Bottom Contact Type with Strengthened Lock Lever — RoHS Compliant												
1	30	15.57	19.1	HFA130CT-ND	3.09	2.38	1.90	1.58	HFA130TR-ND	2,000	1211.00/M	FH12S-30S-0.5SH(55)
	40	20.57	24.1	HFA140CT-ND	3.39	2.64	2.11	1.70	HFA140TR-ND	2,000	1492.00/M	FH12S-40S-0.5SH(55)

*** Note:** *The 1.0mm version of FH12 is constructed by loading every other contact into the 0.5mm housing*

(Continued)

HIROSE ELECTRIC CO.,LTD. 0.5mm and 1.0mm Flex Connectors *(Cont.)*

Digi-Reel®

Fig.	No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Hirose Part No.
1	45	23.07	26.6	HFA145CT-ND	3.86	3.00	2.40	1.93	HFA145TR-ND	2,000	1696.00/M	FH12S-45S-0.5SH(55)
	50	25.57	29.1	HFA150CT-ND	4.18	3.24	2.60	2.09	HFA150TR-ND	2,000	1836.00/M	FH12S-50S-0.5SH(55)
1.0mm Horizontal Mount* — Bottom Contact Type												
1	7	8.07	11.6	HFB07CT-ND	1.33	.96	.79	.67	HFB07TR-ND	2,000	454.00/M	FH12-7S-1SH
	11	12.07	15.6	HFB11CT-ND	1.60	1.16	.95	.80	HFB11TR-ND	2,000	547.00/M	FH12-11S-1SH
	26	27.07	30.6	HFB26CT-ND	1.89	1.46	1.17	.97	—	—	—	FH12-26S-1SH
1.0mm Horizontal Mount* — Bottom Contact Type — RoHS Compliant												
1	5	6.07	9.6	HFB105CT-ND	1.52	1.10	.90	.76	HFB105TR-ND	2,000	520.00/M	FH12-5S-1SH(55)
	6	7.07	10.6	HFB106CT-ND	1.56	1.13	.93	.78	HFB106TR-ND	2,000	533.00/M	FH12-6S-1SH(55)
	7	8.07	11.6	HFB107CT-ND	1.63	1.19	.97	.82	HFB107TR-ND	2,000	559.00/M	FH12-7S-1SH(55)
	8	9.07	12.6	HFB108CT-ND	1.67	1.21	.99	.84	HFB108TR-ND	2,000	572.00/M	FH12-8S-1SH(55)
	9	10.07	13.6	HFB109CT-ND	1.66	1.20	.99	.83	HFB109TR-ND	2,000	598.00/M	FH12-9S-1SH(55)
	11	12.07	15.6	HFB111CT-ND	1.63	1.25	1.00	.83	HFB111TR-ND	2,000	638.00/M	FH12-11S-1SH(55)
	16	17.07	20.6	HFB116CT-ND	1.89	1.45	1.16	.97	HFB116TR-ND	2,000	740.00/M	FH12-16S-1SH(55)
	22	23.07	26.6	HFB122CT-ND	2.08	1.60	1.28	1.07	HFB122TR-ND	2,000	816.00/M	FH12-22S-1SH(55)
	26	27.07	30.6	HFB126CT-ND	2.28	1.75	1.40	1.17	HFB126TR-ND	2,000	893.00/M	FH12-26S-1SH(55)
1.0mm Vertical Mount*												
3	7	6	10.9	HFC07CT-ND	1.66	1.20	.99	.83	—	—	—	FH12-7S-1SV
	8	7	11.9	HFC08CT-ND	1.77	1.28	1.05	.89	HFC08TR-ND	1,000	618.00	FH12-8S-1SV
	20	19	23.9	HFC20CT-ND	1.98	1.53	1.22	1.02	—	—	—	FH12-20S-1SV
	22	21	25.9	HFC22CT-ND	2.12	1.64	1.31	1.09	—	—	—	FH12-22S-1SV
	24	23	27.9	HFC24CT-ND	2.22	1.71	1.37	1.14	—	—	—	FH12-24S-1SV
1.0mm Vertical Mount* — RoHS Compliant												
3	6	5	9.9	HFC106CT-ND	1.63	1.25	1.00	.83	HFC106TR-ND	1,000	665.00	FH12-6S-1SV(55)
	8	7	11.9	HFC108CT-ND	1.72	1.33	1.06	.88	HFC108TR-ND	1,000	705.00	FH12-8S-1SV(55)
	16	15	19.9	HFC116CT-ND	2.21	1.70	1.36	1.13	HFC116TR-ND	1,000	904.00	FH12-16S-1SV(55)
	20	19	23.9	HFC120CT-ND	2.50	1.93	1.54	1.28	HFC120TR-ND	1,000	1024.00	FH12-20S-1SV(55)
	24	23	27.9	HFC124CT-ND	2.86	2.20	1.76	1.47	HFC124TR-ND	1,000	1170.00	FH12-24S-1SV(55)

* **Note:** *The 1.0mm version of FH12 is constructed by loading every other contact into the 0.5mm housing*

1mm Flex Connectors

Dim. in mm

1mm Pitch Flexible Printed Circuit Connectors (Figures 1 and 2)

FEATURES: • High-density packaging achieved by 1mm pitch contacts • Dual-side contact construction allows FPC and FFC conductors to be inserted in either direction • Enhanced contact reliability through high contact pressure • Applicable to 0.25mm ~ 0.35mm thick flexible printed circuit boards • Uses PBT (UL94V-0) insulating materials which are highly resistant to solvents and high temperature • Kinked dip posts for board retention during wave soldering **MATERIAL/FINISH:** • **Insulator:** Polybutylene Phthalate, black • **Contacts:** Phosphor Bronze, tin-lead plated **Electrical:** • **Rated Current:** 0.5A • **Insulation Resistance:** At 100VDC, 500MΩ minimum • **Withstanding Voltage:** 150VAC for 1 minute • **Contact Resistance:** 40mΩ maximum

SMT ZIF Type Flexible PCB Connectors (Figures 3 and 4)

FEATURES: • Low profile type with 3mm packaged height; 1mm pitch permits high-density packaging • Excellent workability is offered by the ZIF structure which provides positive contact by only lightly inserting FPC/FFC and then pushing in the movable locking flap • Recommended thickness of flexible circuit board is 0.25mm to 0.30mm • PPS (UL94V-0) with excellent solvent resistance and high temperature resistance is used for the insulation material • The SMT type connectors permit high density and automatic packaging on circuit boards **MATERIAL/FINISH:** • **Insulator:** PPS Resin, natural finish • **Contacts:** Phosphor Bronze, tin plating **Electrical:** • **Rated Current:** 0.5A • **Insulator Resistance:** 500MΩ at 100VDC minimum • **Withstanding Voltage:** 150VAC for 1 minute at specified value • **Contact Resistance:** 25mΩ maximum

Fig. 1

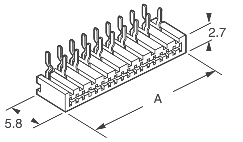

Fig. 2

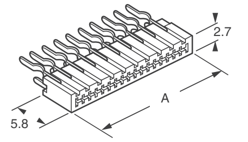

Fig. 3

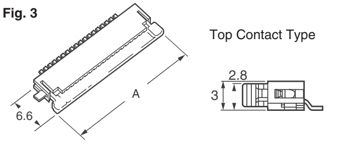

Fig. 4

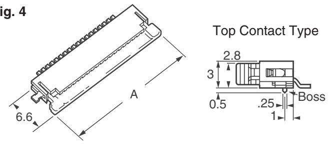

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Hirose Part No.
Fig. 1 - Right Angle							
12	14	HFG12T-ND	.80	.66	.48	.40	FH21-12S-1DS
16	18	HFG16T-ND	1.03	.84	.61	.52	FH21-16S-1DS
Fig. 2 - Straight							
24	26	HFF24T-ND	1.22	1.00	.72	.61	FH21-24S-1DSA
28	30	HFF28T-ND	1.44	1.18	.86	.73	FH21-28S-1DSA

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Hirose Part No.
Fig. 3 - SMT Flex without Board Mount Boss							
12	18.2	HFE12F-ND	1.92	1.60	1.18	.98	FH10A-12S-1SH
14	20.2	HFE14F-ND	2.05	1.71	1.26	1.05	FH10A-14S-1SH
17	23.2	HFE17F-ND	2.28	1.89	1.40	1.17	FH10A-17S-1SH
19	25.2	HFE19F-ND	2.02	1.68	1.24	1.03	FH10A-19S-1SH
20	26.2	HFE20F-ND	2.50	2.08	1.54	1.28	FH10A-20S-1SH
24	30.2	HFE24F-ND	2.73	2.27	1.68	1.40	FH10A-24S-1SH
Fig. 4 - SMT Flex with Board Mount Boss							
7	13.2	HFH07T-ND	1.79	1.46	1.06	.90	FH10A-7S-1SHB

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Hirose Part No.
8	14.2	HFH08T-ND	1.41	1.15	.84	.71	FH10A-8S-1SHB
12	18.2	HFH12T-ND	2.05	1.71	1.26	1.05	FH10A-12S-1SHB
14	20.2	HFH14T-ND	2.05	1.71	1.26	1.05	FH10A-14S-1SHB
16	22.2	HFH16T-ND	2.24	1.87	1.38	1.15	FH10A-16S-1SHB
20	26.2	HFH20T-ND	2.50	2.08	1.54	1.28	FH10A-20S-1SHB
24	30.2	HFH24T-ND	3.22	2.68	1.98	1.65	FH10A-24S-1SHB
26	32.2	HFH26T-ND	3.06	2.54	1.88	1.57	FH10A-26S-1SHB
30	36.2	HFH30T-ND	2.99	2.48	1.86	1.50	FH10A-30S-1SHB

OMRON® 0.3mm-Pitch Rotary Backlock FPC Connector - XF2B

Digi-Reel® RoHS COMPLIANT

SPECIFICATIONS: • **Rated Current:** 0.2A AC/DC • **Rated Voltage:** 50V AC/DC • **Insertion Tolerance:** 20 times • **Operating Temperature:** -30°C ~ 85°C **MATERIALS/FINISH:** • **Housing:** LCP resin (UL94V-0)/natural • **Slider:** LCP resin (UL94V-0)/black • **Contact:** Spring copper alloy/nickel substrate (2µm), gold-plated contacts (0.15µm)

No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape and Reel Pricing 1,500	Omron Part No.
17	4.2	4.8	OR694CT-ND	1.63	1.47	1.31	—	—	XF2B-1745-31A
21	5.4	6.0	OR857CT-ND	1.83	1.65	1.47	OR857TR-ND	915.00/M	XF2B-2145-31A
23	6.0	6.6	OR695CT-ND	1.95	1.76	1.57	OR695TR-ND	976.63/M	XF2B-2345-31A
25	6.6	7.2	OR858CT-ND	2.03	1.83	1.62	OR858TR-ND	1013.00/M	XF2B-2545-31A
27	7.2	7.8	OR773CT-ND ***NEW!***	2.10	1.89	1.68	OR773TR-ND ***NEW!***	674.38/M	XF2B-2745-31A
31	8.4	9.0	OR696CT-ND	2.41	2.17	1.93	—	—	XF2B-3145-31A
33	9.0	9.6	OR697CT-ND	2.52	2.27	2.02	OR697TR-ND	1260.26/M	XF2B-3345-31A
35	9.6	10.2	OR859CT-ND	2.66	2.40	2.13	OR859TR-ND	1330.00/M	XF2B-3545-31A
45	12.6	13.2	OR860CT-ND	3.06	2.75	2.45	OR860TR-ND	1528.00/M	XF2B-4545-31A
51	14.4	15.0	OR772CT-ND ***NEW!***	3.38	3.05	2.71	OR772TR-ND ***NEW!***	1692.26/M	XF2B-5145-31A

Dim. in mm

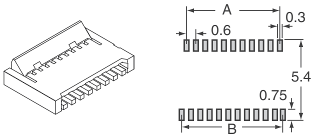

NEW! 0.5mm-Pitch Rotary Backlock FPC Connector - XF2W

Digi-Reel® RoHS COMPLIANT

FEATURES: • Double-sided contacts reduce the number of parts • Wire molding wall on the rear bottom of the connector allows greater freedom in board design • Applicable FPC thickness of 0.3mm **SPECIFICATIONS:** • **Rated Current:** 0.5A AC/DC • **Rated Voltage:** 50V AC/DC • **Insertion Tolerance:** 20 times • **Operating Temperature:** -30°C ~ 85°C **MATERIALS/FINISH:** • **Housing:** LCP resin (UL94V-0)/natural • **Slider:** LCP resin (UL94V-0)/brown • **Contact:** Spring copper alloy/nickel substrate (2µm), gold-plated contacts (0.15µm) • Hold-down: Spring copper alloy/fused-tin plating (2µm)

No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape and Reel Pricing 2,000	Omron Part No.
16	7.5	9.1	OR875CT-ND	.80	.72	.64	OR875TR-ND	400.00/M	XF2W-1615-1A
20	9.5	11.1	OR876CT-ND	1.05	.95	.84	OR876TR-ND	525.00/M	XF2W-2015-1A
24	11.5	13.1	OR877CT-ND	1.28	1.15	1.02	OR877TR-ND	638.00/M	XF2W-2415-1A
64	31.5	33.1	OR878CT-ND	2.90	2.61	2.32	OR878TR-ND	1450.00/M	XF2W-6415-1AE

Dim. in mm

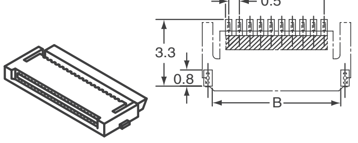

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NEW! 0.4mm Board-to-Board Connector

SPECIFICATIONS: • **Rated Current:** 0.3A • **Rated Voltage:** 50V AC/DC • **Withstand Voltage:** 250VAC for 1 minute • **Insertion Tolerance:** 50 times **FEATURES:** • Ultra-low profile connector with a stacking height of 0.9mm which provides a firm tactile "click" and a high removal force • Twist-resistant design allows removal in all directions • Easy Insertion through self-alignment • Double contacts ensure highly reliable contact

Fig. 1 – Plug

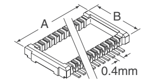

Fig. 2 – Socket

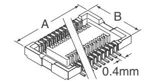

Fig.	No. of Pos.	Dimensions mm A	Dimensions mm B	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Omron Part No.
1	40	7.6	9.3	OR768CT-ND	.73	.66	.58	OR768TR-ND	362.50/M	XB4A-4035-D
	80	15.6	17.3	OR769CT-ND	1.23	1.11	.98	OR769TR-ND	612.50/M	XB4A-8035-D
2	40	7.6	10.4	OR770CT-ND	.73	.66	.58	OR770TR-ND	362.50/M	XB4B-4035-D
	80	15.6	18.4	OR771CT-ND	1.25	1.13	1.00	OR771TR-ND	625.00/M	XB4B-8035-D

0.5mm-Pitch Slide-Lock FPC Connector - XF2L

XF2L-xx25 Upper:

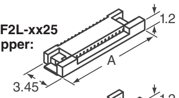

XF2L-xx35 Lower:

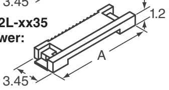

SPECIFICATIONS: • **Rated Current:** 0.5A • **Rated Voltage:** 50VDC • **Withstand Voltage:** 250VAC for 1 minute • **Insertion Tolerance:** 30 times **FEATURES:** • Low profile, measures 1.2mm maximum above the board • Top and bottom contact styles have identical dimensions, utilize the same PCB layout for board design • Hold-down terminal improves connection stability during soldering • Slide mechanism locks securely • Connectors supplied on tape reels for automatic insertion; color coded slide identifies top and bottom contact versions to avoid mix-ups during production

No. of Pos.	Dimension A mm	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Omron Part No.
7	8.4	OR678CT-ND	.83	.75	.66	—	—	XF2L-0725-1
7	8.4	OR679CT-ND	.88	.80	.71	OR679TR-ND	441.63/M	XF2L-0735-1
13	11.4	OR684CT-ND	1.03	.93	.82	OR684TR-ND	512.50/M	XF2L-1325-1
13	11.4	OR685CT-ND	1.03	.93	.82	—	—	XF2L-1335-1
15	12.4	OR686CT-ND	1.05	.95	.84	OR686TR-ND	525.00/M	XF2L-1535-1
21	15.4	OR689CT-ND	1.30	1.17	1.04	—	—	XF2L-2125-1
26	17.9	OR691CT-ND	1.45	1.31	1.16	OR691TR-ND	725.00/M	XF2L-2625-1
XF2L — RoHS Compliant								
4	6.9	OR746CT-ND	.56	.51	.45	OR746TR-ND	280.00/M	XF2L-0425-1A
5	7.4	OR747CT-ND	.60	.54	.48	OR747TR-ND	296.25/M	XF2L-0535-1A
6	7.9	OR748CT-ND	.62	.56	.50	OR748TR-ND	308.75/M	XF2L-0625-1A
6	7.9	OR749CT-ND	.58	.52	.47	OR749TR-ND	288.75/M	XF2L-0635-1A
7	8.4	OR750CT-ND	.66	.59	.52	OR750TR-ND	325.00/M	XF2L-0725-1A
8	8.9	OR751CT-ND	.68	.61	.54	OR751TR-ND	337.50/M	XF2L-0825-1A
10	9.9	OR752CT-ND	.74	.66	.59	OR752TR-ND	366.25/M	XF2L-1025-1A
12	10.9	OR753CT-ND	.80	.72	.64	OR753TR-ND	398.75/M	XF2L-1225-1A
13	11.4	OR756CT-ND	.75	.68	.61	OR756TR-ND	376.00/M	XF2L-1325-1A
13	11.4	OR757CT-ND	.75	.68	.61	OR757TR-ND	376.00/M	XF2L-1335-1A
15	12.4	OR758CT-ND	.81	.73	.65	OR758TR-ND	404.00/M	XF2L-1535-1A
18	13.9	OR759CT-ND	.89	.81	.72	OR759TR-ND	445.00/M	XF2L-1825-1A
18	13.9	OR754CT-ND	.98	.88	.78	OR754TR-ND	487.50/M	XF2L-1835-1A
19	14.4	OR760CT-ND	.92	.83	.74	OR760TR-ND	459.00/M	XF2L-1935-1A
20	14.9	OR761CT-ND	.94	.85	.76	OR761TR-ND	471.00/M	XF2L-2035-1A
21	15.4	OR762CT-ND	.97	.88	.78	OR762TR-ND	484.00/M	XF2L-2125-1A
22	15.9	OR763CT-ND	1.00	.90	.80	OR763TR-ND	498.00/M	XF2L-2235-1A
24	16.9	OR764CT-ND	1.05	.95	.85	OR764TR-ND	526.00/M	XF2L-2435-1A
26	17.9	OR765CT-ND	1.10	1.00	.89	OR765TR-ND	551.00/M	XF2L-2625-1A
30	19.9	OR766CT-ND	1.21	1.09	.97	OR766TR-ND	605.00/M	XF2L-3025-1A
30	19.9	OR767CT-ND	1.21	1.09	.97	OR767TR-ND	605.00/M	XF2L-3035-1A

0.5mm-Pitch Rotary-Lock FPC Connector - XF2H

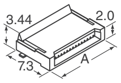

SPECIFICATIONS: • **Rated Current:** 0.5A • **Rated Voltage:** 50VDC • **Withstand Voltage:** 250VAC for 1 minute • **Insertion Tolerance:** 20 times **FEATURES:** • Rotary-lock at rear instead of front simplifies assembly, provides secure connection even if cable flexes upward • FPC housing design ensures reliable alignment of circuits during assembly, unaffected by rotary-lock • Double-sided contacts can be used wherever top or bottom connection is needed, reducing part numbers on bill of materials • Low profile, measures only 2mm maximum above the circuit board ***Note: "Not for New Design" – Currently this Series is being replaced by XF2M Series***

No. of Pos.	Dimension A mm	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 1,500	Omron Part No.
14	11.1	OC642CT-ND	1.03	.93	.82	—	—	XF2H-1415-1LW
22	15.1	OC646CT-ND	.89	.80	.71	—	—	XF2H-2215-1LW
26	17.1	OC648CT-ND	1.33	1.20	1.06	—	—	XF2H-2615-1LW
38	23.1	OC655CT-ND	1.65	1.49	1.32	OC655TR-ND	825.00/M	XF2H-3815-1LW

0.5mm-Pitch FPC Connector - XF2U

SPECIFICATIONS: • **Contact Type:** Vertical • **Rated Current:** 0.5A AC/DC • **Rated Voltage:** 50V AC/DC • **Withstand Voltage:** 250V AC for 1 minute • **Insertion Tolerance:** 20 times • **Housing:** LCP resin (UL94V-0)/natural **FEATURES:** • A miniature connector with a rotary backlock mechanism: On-board profile: 0.9mm; Depth Dimension: 3.5mm • Connections can be made from above or below thanks to the backlock mechanism • Gold plated with an applicable FPC thickness of 0.2mm

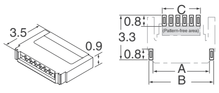

No. of Pos.	Dimensions mm A	Dimensions mm B	Dimensions mm C	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Omron Part No.
14	8.1	8.9	6.8	OR862CT-ND	1.20	1.08	.96	OR862TR-ND	598.00/M	XF2U-1415-3A
20	11.1	11.9	9.8	OR863CT-ND	1.44	1.30	1.16	OR863TR-ND	719.00/M	XF2U-2015-3A
24	13.1	13.9	11.8	OR864CT-ND	1.54	1.39	1.24	OR864TR-ND	770.00/M	XF2U-2415-3A
30	16.1	16.9	14.8	OR865CT-ND	1.71	1.54	1.37	OR865TR-ND	854.00/M	XF2U-3015-3A
40	21.1	21.9	19.8	OR866CT-ND	2.13	1.92	1.71	OR866TR-ND	1066.00/M	XF2U-4015-3A

0.5mm-Pitch Vertical Slide-Lock FPC Connector - XF2J

SPECIFICATIONS: • **Rated Current:** 0.5A AC/DC • **Rated Voltage:** 50V AC/DC • **Withstand Voltage:** 250VAC for 1 minute **Insertion Tolerance:** 30 times **FEATURES:** • Enlarged surface area on slide bar makes automatic assembly easier • Vertical slide mechanism locks flex circuit securely in place • Low-profile, measures only 4.15mm above the circuit board • Hold-down terminal improves connection stability during soldering • Connectors supplied on tape reels for automatic insertion

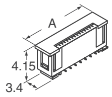

No. of Pos.	Dimension A mm	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Omron Part No.
22	15.5	OR667CT-ND	1.05	.95	.84	—	—	XF2J-2224-11
28	18.5	OR670CT-ND	1.25	1.13	1.00	OR670TR-ND	625.00	XF2J-2824-11
XF2J — RoHS Compliant								
6	7.5	OR733CT-ND	.64	.57	.51	OR733TR-ND	316.25	XF2J-0624-11A
8	8.5	OR734CT-ND	.75	.67	.60	OR734TR-ND	371.25	XF2J-0824-11A
10	9.5	OR735CT-ND	.80	.72	.64	OR735TR-ND	398.75	XF2J-1024-11A
12	10.5	OR736CT-ND	.89	.80	.71	OR736TR-ND	440.00	XF2J-1224-11A
14	11.5	OR737CT-ND	.97	.87	.77	OR737TR-ND	481.25	XF2J-1424-11A
16	12.5	OR738CT-ND	1.03	.92	.82	OR738TR-ND	508.75	XF2J-1624-11A
18	13.5	OR739CT-ND	1.08	.97	.86	OR739TR-ND	536.25	XF2J-1824-11A
20	14.5	OR740CT-ND	1.14	1.02	.91	OR740TR-ND	563.75	XF2J-2024-11A
22	15.5	OR741CT-ND	1.16	1.04	.93	OR741TR-ND	577.50	XF2J-2224-11A
24	16.5	OR742CT-ND	1.25	1.12	.99	OR742TR-ND	618.75	XF2J-2424-11A
26	17.5	OR743CT-ND	1.33	1.19	1.06	OR743TR-ND	660.00	XF2J-2624-11A
28	18.5	OR744CT-ND	1.39	1.24	1.10	OR744TR-ND	687.50	XF2J-2824-11A
30	19.5	OR745CT-ND	1.44	1.29	1.15	OR745TR-ND	715.00	XF2J-3024-11A

0.5mm-Pitch Rotary Backlock FPC Connector - XF2M

SPECIFICATIONS: • **Rated Current:** 0.5A AC/DC • **Rated Voltage:** 50V AC/DC • **Operating Temperature:** -30°C ~ 85°C **MATERIALS/FINISH:** • **Housing:** LCP resin (UL94V-0)/natural • **Slider:** LCP resin (UL94V-0)/black • **Contact:** Spring copper alloy/nickel substrate (2µm), Au plating (2µm) • **Hold-down:** Spring copper alloy/fused-tin plating (1.5µm)

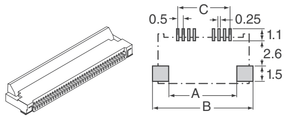

No. of Pos.	Dimensions mm A	Dimensions mm B	Dimensions mm C	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 1,500	Omron Part No.
34	18.1	21.5	16.5	OR701CT-ND	1.41	1.27	1.13	OR701TR-ND	703.63/M	XF2M34151L
45	23.6	27.0	22.0	OR703CT-ND	1.73	1.56	1.39	OR703TR-ND	865.38/M	XF2M45151L
50	26.1	29.5	24.5	OR704CT-ND	1.88	1.69	1.51	—	—	XF2M50151L
XF2M — RoHS Compliant										
10	6.1	9.5	4.5	OR717CT-ND	1.02	.92	.81	OR717TR-ND	506.26/M	XF2M-1015-1A
12	7.1	10.5	5.5	OR861CT-ND	1.13	1.02	.91	OR861TR-ND	564.00/M	XF2M-1215-1A
18	10.1	13.5	8.5	OR718CT-ND	1.29	1.15	1.03	OR718TR-ND	638.76/M	XF2M-1815-1A
20	11.1	14.5	9.5	OR719CT-ND	.93	.83	.74	OR719TR-ND	460.00/M	XF2M-2015-1A
22	12.1	15.5	10.5	OR720CT-ND	.98	.88	.78	OR720TR-ND	487.50/M	XF2M-2215-1A
24	13.1	16.5	11.5	OR721CT-ND	1.50	1.34	1.19	OR721TR-ND	743.76/M	XF2M-2415-1A
26	14.1	17.5	12.5	OR722CT-ND	1.10	.99	.88	OR722TR-ND	546.26/M	XF2M-2615-1A
30	16.1	19.5	14.5	OR723CT-ND	1.22	1.09	.97	OR723TR-ND	603.76/M	XF2M-3015-1A
32	17.1	20.5	15.5	OR724CT-ND	1.28	1.14	1.02	OR724TR-ND	632.50/M	XF2M-3215-1A
33	17.6	21.0	16.0	OR725CT-ND	1.79	1.60	1.43	OR725TR-ND	888.76/M	XF2M-3315-1A
34	18.1	21.5	16.5	OR726CT-ND	1.33	1.19	1.06	OR726TR-ND	660.00/M	XF2M-3415-1A
35	18.6	22.0	17.0	OR727CT-ND	1.36	1.22	1.08	OR727TR-ND	675.00/M	XF2M-3515-1A
36	19.1	22.5	17.5	OR728CT-ND	1.39	1.24	1.11	OR728TR-ND	688.76/M	XF2M-3615-1A
40	21.1	24.5	19.5	OR729CT-ND	1.50	1.35	1.20	OR729TR-ND	746.26/M	XF2M-4015-1A
42	22.1	25.5	20.5	OR730CT-ND	1.56	1.40	1.24	OR730TR-ND	775.00/M	XF2M-4215-1A
45	23.6	27.0	22.0	OR731CT-ND	1.65	1.48	1.31	OR731TR-ND	818.76/M	XF2M-4515-1A
50	26.1	29.5	24.5	OR732CT-ND	1.84	1.65	1.46	OR732TR-ND	912.50/M	XF2M-5015-1A

0.5mm-Pitch Rotary Backlock FPC Connector - XF2N, XF2R

SPECIFICATIONS: Rated Current: 0.3A AC/DC **Rated Voltage:** 50V AC/DC **Operating Temperature:** -30°C ~ 85°C **MATERIALS/FINISH: Housing:** LCP resin (UL94V-0)/natural **Slider:** LCP resin (UL 94V-0)/black **Contact:** Spring copper alloy/nickel substrate (1.5µm) gold-plated contacts (0.15µm) **Hold-down:** Spring copper alloy/fused-tin plating (1.5µm)

Fig. 1

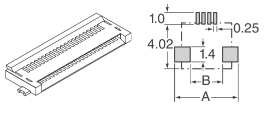

Fig. 2

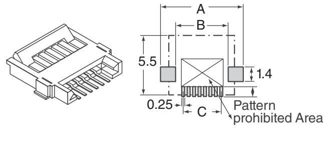

Fig.	No. of Pos.	Dimensions mm A	Dimensions mm B	Dimensions mm C	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Omron Part No.
1	21	13.8	11.8	—	OR705CT-ND	1.79	1.61	1.44	OR705CT-ND	894.13/M	XF2N21153
2	6	6.1	4.1	2.5	OR706CT-ND	1.41	1.27	1.13	OR706CT-ND	704.00/M	XF2R06154A
	9	7.6	5.6	4.0	OR707CT-ND	1.57	1.42	1.26	OR707CT-ND	786.50/M	XF2R09154A
	18	12.1	10.1	8.5	OR708CT-ND	2.06	1.86	1.65	OR708CT-ND	1030.25/M	XF2R18154A
	24	15.1	13.1	11.5	OR709CT-ND	2.38	2.15	1.91	OR709CT-ND	1192.38/M	XF2R24154A
	34	20.1	18.1	16.5	OR710CT-ND	2.93	2.64	2.34	—	—	XF2R34154A
	40	23.1	21.1	19.5	OR711CT-ND	3.25	2.93	2.61	OR711CT-ND	1626.63/M	XF2R40154A

OMRON FPC Connectors

Unique Omron FPC Features

Rotary slider independent of the FPC socket

➔ Slider does not disconnect if the FPC is lifted.

High reliability - A mounted FPC will not come off if excess force is applied to it.

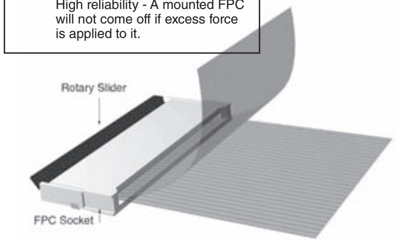

XF2 Series

1. Mount the connector.

2. Insert the FPC.

3. Lock the rotary slider.

Four-sided FPC housing

➔ Construction prevents FPC displacement.

Mounting reliability is enhanced becuase the FPC is held in a four-sided housing and is unaffected by the slider operation.

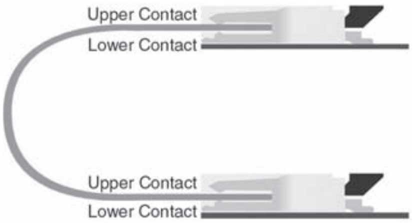

Double-sided contact

Note: Except the XF2C and 61-pin XF2B-61.

➔ No need to discriminate between the upper and lower FPC contracts.

Connectors are the same, so it's not necessary to distinguish between the upper and lower contacts when connecting upper and lower PCBs.

With ease of operation and secure mounting in tight spaces, the XF Series is widely used in a variety of industries:
- Any type of handheld device
- Mobile Phones, Digital Cameras, Digital Music Players, Digital Video Cameras
- Test & Measurement Equipment
- Medical Diagnostic Equipment
- Automotive OEM and After-market Infotainment Applications

FPC Connector Product Overview

Model	Lock mechanism	Pitch	On-board profile	Depth	Applicable FPC thickness	Contact type
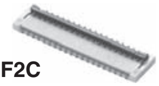 **XF2C**	Rotary backlock	0.3 mm	0.9 mm	4.0 mm	0.12 mm	Upper contact
XF2B	Rotary backlock	0.3 mm	1.2 mm	5.5 mm	0.2 mm	Double-sided contact (See note 1.)
XF2U	Rotary backlock	0.5 mm	0.9 mm	3.5 mm	0.2 mm	Double-sided contact
XF2W	Rotary backlock	0.5 mm	1.1 mm	3.5 mm	0.3 mm	Double-sided contact
XF2M	Rotary backlock	0.5 mm	2.0 mm (See note 2.)	5.9 mm (See note 2.)	0.3 mm	Double-sided contact
XF2L	Slide lock	0.5 mm	1.2 mm	3.5 mm	0.3 mm	Upper/lower contact
XF2J	Slide lock	0.5 mm	4.15 mm	3.4 mm	0.3 mm	Single-sided contact

Note 1: Models with 61 pins have upper contacts.
2: Specifications for models with 55 pins and those with 60 pins differ.

0.30 mm (0.012”) FFC-FPC Connectors

SFYL and SFYL-U Series

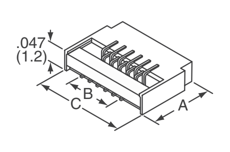

The SFYL and SFYL-U Series are a 0.30 mm (0.012 in) pitch cable to board connector with an ultra low profile. The series adopts the Surface Mount Technology (SMT) and Zero Insertion Force (ZIF) or Low Insertion Force (LIF) mechanism which enable easier cable insertion. These are suitable for high density design of consumer equipment, especially CD-ROM Drive, Digital Still Camera (DSC), Digital Video Camera (DVC) and Mobile Phone.

Features: • Ultra low profile design provides a body height of 1.2 mm (0.047 in.) • Easy handling cable insertion by actuator driven • High cable retention force • Design against solder and flux wicking

Materials:
• **Housing/Actuator:** Glass reinforced high temperature thermoplastic (UL94V-0) • **Color:** Housing: White; Actuator: Black • **Contact:** Copper Alloy

Mechanical and Electrical Performance:
• **Durability (Actuator Operation):** 10 cycle maximum • **Temperature Range:** -25°C ~ 85°C • **Insulation Resistance:** 50MΩ minimum • **Withstanding Voltage:** AC 200V • **Current Rating:** AC/DC 0.2A

No. of Positions	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 4,500	FCI Part No.
SFYL Series — Lower Contact Location										
17	0.118 (3.00)	0.165 (4.20)	0.291 (7.40)	609-1216-1-ND	1.34	.74	.63	609-1216-2-ND	446.32/M	10013057-171200ELF
21	0.118 (3.00)	0.213 (5.40)	0.339 (8.60)	609-1217-1-ND	1.45	.79	.67	609-1217-2-ND	560.00/M	10013057-211200ELF
25	0.118 (3.00)	0.260 (6.60)	0.386 (9.80)	609-1218-1-ND	1.61	.87	.75	609-1218-2-ND	577.50/M	10013057-251200ELF
31	0.118 (3.00)	0.331 (8.40)	0.457 (11.60)	609-1219-1-ND	1.57	.85	.75	609-1219-2-ND	595.00/M	10013057-311200ELF
35	0.118 (3.00)	0.378 (9.60)	0.504 (12.80)	609-1220-1-ND	1.80	.98	.85	609-1220-2-ND	612.50/M	10013057-351200ELF
39	0.118 (3.00)	0.425 (10.80)	0.551 (14.00)	609-1221-1-ND	1.99	1.11	.97	609-1221-2-ND	760.52/M	10013057-391200ELF
45	0.118 (3.00)	0.496 (12.60)	0.622 (15.80)	609-1222-1-ND	1.71	.98	.85	609-1222-2-ND	670.32/M	10013057-451200ELF
SFYL-U Series — Upper Contact Location										
11	0.146 (3.70)	0.094 (2.40)	0.220 (5.60)	609-1223-1-ND	1.23	.68	.58	609-1223-2-ND	402.50/M	10017251-112240ELF
15	0.146 (3.70)	0.142 (3.60)	0.268 (6.80)	609-1224-1-ND	1.30	.72	.61	609-1224-2-ND	455.00/M	10017251-152240ELF
19	0.146 (3.70)	0.189 (4.80)	0.315 (8.00)	609-1225-1-ND	1.32	.75	.61	609-1225-2-ND	472.50/M	10017251-192240ELF
23	0.146 (3.70)	0.236 (6.00)	0.362 (9.20)	609-1226-1-ND	1.56	.84	.72	609-1226-2-ND	491.40/M	10017251-232240ELF
25	0.146 (3.70)	0.260 (6.60)	0.386 (9.80)	609-1227-1-ND	1.41	.77	.66	609-1227-2-ND	507.50/M	10017251-252240ELF
27	0.146 (3.70)	0.283 (7.20)	0.409 (10.40)	609-1228-1-ND	1.65	.92	.79	609-1228-2-ND	516.32/M	10017251-272240ELF
31	0.146 (3.70)	0.331 (8.40)	0.457 (11.60)	609-1229-1-ND	1.50	.84	.72	609-1229-2-ND	560.00/M	10017251-312240ELF
39	0.146 (3.70)	0.425 (10.80)	0.551 (14.00)	609-1230-1-ND	1.96	1.06	.93	609-1230-2-ND	665.00/M	10017251-392240ELF
45	0.146 (3.70)	0.496 (12.60)	0.622 (15.80)	609-1231-1-ND	2.07	1.16	1.01	609-1231-2-ND	680.63/M	10017251-452240ELF

0.50 mm (0.020”) FFC-FPC Connectors

SMT/ZIF Type

The Gas-Tight, High Pressure (GTH) contact system ensures a low cost connection with reliability equal to gold plating. The Zero Insertion Force (ZIF) connection allows an increased number of mating cycles with minimal wear. The ZIF pre-holding process provides a stable and reliable mating operation. The slider ensures maximum cable retention with a minimum size. Fork shaped contacts mean stable and low contact resistance. The cable lock option provides cable strain relief as well as full retention of cable.

Specifications: • Contact Resistance: 30mΩ maximum • Insulation Resistance: 100MΩ minimum • Durability (Mating Cycles): 20 Cycles • Temperature Range: -55°C ~ 85°C • Current Rating: 0.5 A AC/DC • Voltage Rating: 50 V AC/DC

62674 Series:
• Housing: Resin, Glass Reinforced, UL94V-0, Black • Slider: Resin, Glass Reinforced, UL94V-0, Brown • Contact: Phosphor Bronze. Tin Alloy Plated

62684 Series:
• Housing: Glass Filled Thermoplastic, UL94V-0, Beige • Slider: Glass Filled Thermoplastic, UL94V-0, Black • Contact: Phosphor Bronze, Tin Alloy Plated

SFV Series:
• Housing: Polyamide Resin, Glass Reinforced, UL94V-0, Black • Slider: PPS Resin, Glass Reinforced, UL94V-0, Brown (with cable-lock: Black) • Contact: Phosphor Bronze, Tin Alloy Plated

Fig. 1

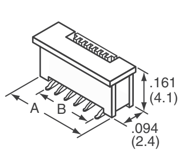

Fig. 2

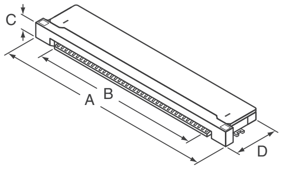

Fig.	No. of Posi-tions	Contact Location	Dimension - Inch (mm) A	B	C	D	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
62674 Series — Top Entry Without Cable Lock (Gold Plated)														
1	8	—	0.335 (8.50)	0.138 (3.50)	—	—	609-1204-1-ND	.72	.37	.29	609-1204-2-ND	1,000	220.63	62674-081121ALF
	12	—	0.413 (10.50)	0.217 (5.50)	—	—	609-1205-1-ND	.75	.37	.31	609-1205-2-ND	1,000	233.63	62674-121121ALF
	16	—	0.492 (12.50)	0.295 (7.50)	—	—	609-1206-1-ND	.83	.42	.35	609-1206-2-ND	1,000	262.50	62674-161121ALF
	20	—	0.571 (14.50)	0.374 (9.50)	—	—	609-1207-1-ND	.83	.41	.35	609-1207-2-ND	1,000	262.50	62674-201121ALF
	21	—	0.591 (15.00)	0.394 (10.00)	—	—	609-1208-1-ND	.78	.39	.33	609-1208-2-ND	1,000	248.10	62674-211121ALF
	24	—	0.650 (16.50)	0.453 (11.50)	—	—	609-1210-1-ND	.84	.44	.37	609-1210-2-ND	1,000	300.00	62674-241121ALF
	25	—	0.670 (17.00)	0.472 (12.00)	—	—	609-1211-1-ND	1.07	.54	.46	609-1211-2-ND	1,000	356.25	62674-251121ALF
	26	—	0.689 (17.50)	0.492 (12.50)	—	—	609-1212-1-ND	.92	.48	.40	609-1212-2-ND	1,000	315.00	62674-261121ALF
	30	—	0.768 (19.50)	0.571 (14.50)	—	—	609-1213-1-ND	.94	.48	.41	609-1213-2-ND	1,000	329.38	62674-301121ALF
	32	—	0.807 (20.50)	0.610 (15.50)	—	—	609-1214-1-ND	.97	.51	.43	609-1214-2-ND	1,000	348.75	62674-321121ALF
	33	—	0.827 (21.00)	0.630 (16.00)	—	—	609-1215-1-ND	1.22	.65	.55	609-1215-2-ND	1,000	431.25	62674-331121ALF
62684 Series — Side Entry Without Cable Lock (Gold Plated)														
2	40	Lower	0.957 (24.30)	0.768 (19.50)	0.079 (2.00)	0.197 (5.00)	609-1195-1-ND	1.14	.57	.49	609-1195-2-ND	2,000	379.80/M	62684-401100ALF
	45	Lower	1.055 (26.80)	0.866 (22.00)	0.079 (2.00)	0.197 (5.00)	609-1196-1-ND	1.27	.70	.59	609-1196-2-ND	2,000	460.23/M	62684-451100ALF
	50	Lower	0.957 (24.30)	0.965 (24.50)	0.079 (2.00)	0.197 (5.00)	609-1197-1-ND	1.19	.64	.54	609-1197-2-ND	2,000	420.30/M	62684-501100ALF
	32	Upper	0.799 (20.30)	0.610 (15.50)	0.079 (2.00)	0.197 (5.00)	609-1198-1-ND	.95	.48	.40	609-1198-2-ND	2,000	315.15/M	62684-322100ALF
	34	Upper	0.839 (21.30)	0.650 (16.50)	0.079 (2.00)	0.197 (5.00)	609-1199-1-ND	.99	.51	.44	609-1199-2-ND	2,000	331.35/M	62684-342100ALF
	40	Upper	0.957 (24.30)	0.768 (19.50)	0.079 (2.00)	0.197 (5.00)	609-1200-1-ND	1.24	.69	.58	609-1200-2-ND	2,000	450.08/M	62684-402100ALF
	45	Upper	1.055 (26.80)	1.055 (26.80)	0.079 (2.00)	0.197 (5.00)	609-1201-1-ND	1.09	.56	.48	609-1201-2-ND	2,000	372.45/M	62684-452100ALF
	50	Upper	1.154 (29.3)	0.965 (24.50)	0.079 (2.00)	0.197 (5.00)	609-1202-1-ND	1.43	.79	.67	609-1202-2-ND	2,000	519.39/M	62684-502100ALF
	55	Upper	1.252 (31.8)	1.063 (27.00)	0.079 (2.00)	0.197 (5.00)	609-2840-1-ND	.97	.52	.47	609-2840-2-ND	2,000	324.05/M	62684-5521N0ALF
SFV Series — Side Entry, Upper Contact Location Without Cable Lock														
2	4	Lower	0.295 (7.50)	0.059 (1.50)	0.071 (1.80)	0.165 (4.20)	609-1846-1-ND	.91	.47	.40	609-1846-2-ND	3,000	214.60/M	SFV4R-1STE1LF
	5	Lower	0.315 (8.00)	0.079 (2.00)	0.071 (1.80)	0.165 (4.20)	609-1848-1-ND	.97	.50	.43	609-1848-2-ND	3,000	313.64/M	SFV5R-1STE1LF
	6	Lower	0.335 (8.50)	0.098 (2.50)	0.071 (1.80)	0.165 (4.20)	609-1850-1-ND	1.20	.67	.56	609-1850-2-ND	3,000	428.50/M	SFV6R-1STE1LF
	7	Lower	0.354 (9.00)	0.118 (3.00)	0.071 (1.80)	0.165 (4.20)	609-1852-1-ND	.68	.34	.29	609-1852-2-ND	3,000	217.50/M	SFV7R-1STE1LF
	8	Lower	0.374 (9.50)	0.138 (3.50)	0.071 (1.80)	0.165 (4.20)	609-1854-1-ND	1.18	.66	.55	609-1854-2-ND	3,000	422.09/M	SFV8R-1STE1LF
	10	Lower	0.413 (10.50)	0.177 (4.50)	0.071 (1.80)	0.165 (4.20)	609-1856-1-ND	1.38	.75	.64	609-1856-2-ND	3,000	494.34/M	SFV10R-1STE1LF
	12	Lower	0.453 (11.50)	0.217 (5.50)	0.071 (1.80)	0.165 (4.20)	609-1858-1-ND	1.03	.57	.48	609-1858-2-ND	3,000	366.51/M	SFV12R-1STE1LF
	14	Lower	0.492 (12.50)	0.256 (6.50)	0.071 (1.80)	0.165 (4.20)	609-1860-1-ND	1.07	.59	.50	609-1860-2-ND	3,000	380.76/M	SFV14R-1STE1LF
	15	Lower	0.512 (13.00)	0.276 (7.00)	0.071 (1.80)	0.165 (4.20)	609-1862-1-ND	1.09	.60	.51	609-1862-2-ND	3,000	386.75/M	SFV15R-1STE1LF
	16	Lower	0.531 (13.50)	0.295 (7.50)	0.071 (1.80)	0.165 (4.20)	609-1864-1-ND	1.08	.60	.50	609-1864-2-ND	3,000	384.18/M	SFV16R-1STE1LF
	18	Lower	0.571 (14.50)	0.335 (8.50)	0.071 (1.80)	0.165 (4.20)	609-1866-1-ND	1.65	.90	.79	609-1866-2-ND	3,000	624.54/M	SFV18R-1STE1LF
	20	Lower	0.610 (15.50)	0.374 (9.50)	0.071 (1.80)	0.165 (4.20)	609-1868-1-ND	1.81	1.01	.89	609-1868-2-ND	3,000	704.48/M	SFV20R-1STE1LF
	21	Lower	0.630 (16.00)	0.394 (10.00)	0.071 (1.80)	0.165 (4.20)	609-1871-1-ND	1.07	.59	.50	609-1871-2-ND	3,000	380.91/M	SFV21R-1STE1LF
	22	Lower	0.650 (16.50)	0.413 (10.50)	0.071 (1.80)	0.165 (4.20)	609-1873-1-ND	1.68	.94	.82	609-1873-2-ND	3,000	654.92/M	SFV22R-1STE1LF
	24	Lower	0.689 (17.50)	0.453 (11.50)	0.071 (1.80)	0.165 (4.20)	609-1875-1-ND	1.80	1.01	.88	609-1875-2-ND	3,000	701.68/M	SFV24R-1STE1LF
	26	Lower	0.728 (18.50)	0.492 (12.50)	0.071 (1.80)	0.165 (4.20)	609-1877-1-ND	.83	.46	.39	609-1877-2-ND	3,000	295.69/M	SFV26R-1STE1LF
	28	Lower	0.768 (19.50)	0.531 (13.50)	0.071 (1.80)	0.165 (4.20)	609-1879-1-ND	1.41	.78	.67	609-1879-2-ND	3,000	518.42/M	SFV28R-1STE1LF
	30	Lower	0.807 (20.50)	0.571 (14.50)	0.071 (1.80)	0.165 (4.20)	609-1881-1-ND	1.47	.81	.69	609-1881-2-ND	3,000	524.12/M	SFV30R-1STE1LF
SFV Series — Side Entry, Upper Contact Location Without Cable Lock														
2	4	Upper	0.295 (7.50)	0.059 (1.50)	0.071 (1.80)	0.165 (4.20)	609-1847-1-ND	.91	.47	.40	609-1847-2-ND	3,000	214.60/M	SFV4R-2STE1LF
	5	Upper	0.315 (8.00)	0.079 (2.00)	0.071 (1.80)	0.165 (4.20)	609-1849-1-ND	1.07	.60	.50	609-1849-2-ND	3,000	382.33/M	SFV5R-2STE1LF
	6	Upper	0.335 (8.50)	0.098 (2.50)	0.071 (1.80)	0.165 (4.20)	609-1851-1-ND	1.47	.83	.71	609-1851-2-ND	3,000	547.40/M	SFV6R-2STE1LF

(Continued)

0.50 mm (0.020”) FFC-FPC Connectors

SMT/ZIF Type *(Cont.)*

Fig.	No. of Posi-tions	Contact Location	Dimension - Inch (mm) A	B	C	D	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
2	7	Upper	0.354 (9.00)	0.118 (3.00)	0.071 (1.80)	0.165 (4.20)	609-1853-1-ND	1.07	.59	.50	609-1853-2-ND	3,000	381.76/M	SFV7R-2STE1LF
	8	Upper	0.374 (9.50)	0.138 (3.50)	0.071 (1.80)	0.165 (4.20)	609-1855-1-ND	.86	.43	.36	609-1855-2-ND	3,000	264.92/M	SFV8R-2STE1LF
	10	Upper	0.413 (10.50)	0.177 (4.50)	0.071 (1.80)	0.165 (4.20)	609-1857-1-ND	.77	.40	.34	609-1857-2-ND	3,000	253.75/M	SFV10R-2STE1LF
	12	Upper	0.453 (11.50)	0.217 (5.50)	0.071 (1.80)	0.165 (4.20)	609-1859-1-ND	1.03	.57	.48	609-1859-2-ND	3,000	366.51/M	SFV12R-2STE1LF
	14	Upper	0.492 (12.50)	0.256 (6.50)	0.071 (1.80)	0.165 (4.20)	609-1861-1-ND	1.07	.59	.50	609-1861-2-ND	3,000	380.76/M	SFV14R-2STE1LF
	15	Upper	0.512 (13.00)	0.276 (7.00)	0.071 (1.80)	0.165 (4.20)	609-1863-1-ND	1.28	.69	.59	609-1863-2-ND	3,000	466.98/M	SFV15R-2STE1LF
	16	Upper	0.531 (13.50)	0.295 (7.50)	0.071 (1.80)	0.165 (4.20)	609-1865-1-ND	1.57	.85	.75	609-1865-2-ND	3,000	592.62/M	SFV16R-2STE1LF
	18	Upper	0.571 (14.50)	0.335 (8.50)	0.071 (1.80)	0.165 (4.20)	609-1867-1-ND	1.14	.63	.53	609-1867-2-ND	3,000	404.85/M	SFV18R-2STE1LF
	20	Upper	0.610 (15.50)	0.374 (9.50)	0.071 (1.80)	0.165 (4.20)	609-1869-1-ND	1.53	.86	.74	609-1869-2-ND	3,000	570.64/M	SFV20R-2STE1LF
	21	Upper	0.630 (16.00)	0.394 (10.00)	0.071 (1.80)	0.165 (4.20)	609-1872-1-ND	1.38	.77	.66	609-1872-2-ND	3,000	509.04/M	SFV21R-2STE1LF
	22	Upper	0.650 (16.50)	0.413 (10.50)	0.071 (1.80)	0.165 (4.20)	609-1874-1-ND	1.38	.77	.66	609-1874-2-ND	3,000	517.30/M	SFV22R-2STE1LF
	24	Upper	0.689 (17.50)	0.453 (11.50)	0.071 (1.80)	0.165 (4.20)	609-1876-1-ND	1.41	.77	.66	609-1876-2-ND	3,000	506.80/M	SFV24R-2STE1LF
	26	Upper	0.728 (18.50)	0.492 (12.50)	0.071 (1.80)	0.165 (4.20)	609-1878-1-ND	1.33	.74	.62	609-1878-2-ND	3,000	473.25/M	SFV26R-2STE1LF
	28	Upper	0.768 (19.50)	0.531 (13.50)	0.071 (1.80)	0.165 (4.20)	609-1880-1-ND	1.41	.78	.66	609-1880-2-ND	3,000	502.32/M	SFV28R-2STE1LF
	30	Upper	0.807 (20.50)	0.571 (14.50)	0.071 (1.80)	0.165 (4.20)	609-1882-1-ND	2.02	1.19	1.03	609-1882-2-ND	3,000	832.72/M	SFV30R-2STE1LF
SFV Series — Side Entry With Cable-Lock														
2	20	Upper	0.610 (15.50)	0.374 (9.50)	0.071 (1.80)	0.165 (4.20)	609-1870-1-ND	1.23	.68	.58	609-1870-2-ND	3,000	439.76/M	SFV20R-4STE1LF
Side Entry														
2	10	Lower	0.295 (7.50)	0.177 (4.50)	0.047 (1.20)	0.134 (3.40)	609-1234-1-ND	1.04	.52	.44	609-1234-2-ND	4,500	320.63/M	10051922-1010ELF
	11	Lower	0.315 (8.00)	0.197 (5.00)	0.047 (1.20)	0.134 (3.40)	609-1235-1-ND	.86	.44	.38	609-1235-2-ND	4,500	270.76/M	10051922-1110ELF
	12	Lower	0.335 (8.50)	0.217 (5.50)	0.047 (1.20)	0.134 (3.40)	609-1236-1-ND	.86	.45	.38	609-1236-2-ND	4,500	273.60/M	10051922-1210ELF
	14	Lower	0.374 (9.50)	0.256 (6.50)	0.047 (1.20)	0.134 (3.40)	609-1237-1-ND	.88	.45	.39	609-1237-2-ND	4,500	277.88/M	10051922-1410ELF
	15	Lower	0.394 (10.00)	0.276 (7.00)	0.047 (1.20)	0.134 (3.40)	609-1238-1-ND	.95	.48	.40	609-1238-2-ND	4,500	299.26/M	10051922-1510ELF
	18	Lower	0.453 (11.50)	0.335 (8.50)	0.047 (1.20)	0.134 (3.40)	609-1239-1-ND	.92	.48	.40	609-1239-2-ND	4,500	299.26/M	10051922-1810ELF
	20	Lower	0.492 (12.50)	0.374 (9.50)	0.047 (1.20)	0.134 (3.40)	609-1240-1-ND	1.10	.56	.48	609-1240-2-ND	4,500	354.69/M	10051922-2010ELF
	24	Lower	0.571 (14.50)	0.453 (11.50)	0.047 (1.20)	0.134 (3.40)	609-1241-1-ND	1.16	.62	.52	609-1241-2-ND	4,500	380.80/M	10051922-2410ELF
	26	Lower	0.610 (15.50)	0.492 (12.50)	0.047 (1.20)	0.134 (3.40)	609-1242-1-ND	1.18	.62	.54	609-1242-2-ND	4,500	393.54/M	10051922-2610ELF
	28	Lower	0.650 (16.50)	0.531 (13.50)	0.047 (1.20)	0.134 (3.40)	609-1243-1-ND	1.23	.65	.56	609-1243-2-ND	4,500	408.80/M	10051922-2810ELF
	30	Lower	0.689 (17.50)	0.571 (14.50)	0.047 (1.20)	0.134 (3.40)	609-1244-1-ND	1.30	.72	.61	609-1244-2-ND	4,500	455.00/M	10051922-3010ELF
	45	Lower	0.984 (25.00)	0.866 (22.00)	0.047 (1.20)	0.134 (3.40)	609-1232-1-ND	1.35	.75	.64	609-1232-2-ND	4,500	497.84/M	10042867-45MB10ELF
	57	Lower	1.220 (31.00)	1.102 (28.00)	0.047 (1.20)	0.134 (3.40)	609-1233-1-ND	2.79	1.51	1.32	609-1233-2-ND	4,500	1054.48/M	10042867-57MB10ELF

0.80 mm (0.031”) FFC-FPC Connectors

SMT/ZIF Type

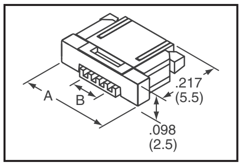

The Gas-Tight, High Pressure (GTH) contact system ensures a low cost connection with reliability equal to gold plating. The Zero Insertion Force (ZIF) connection allows an increased number of mating cycles with minimal wear. The ZIF pre-holding process provides a stable and reliable mating operation. The slider ensures maximum cable retention with a minimum size. Fork shaped contacts mean stable and low contact resistance. The cable lock option provides cable strain relief as well as full retention of cable.

Specifications: • Housing Material: Glass Reinforced PPS, UL94V-0 • Contact Material: Phosphor Bronze, Matte pure Tin plated • Contact Resistance: 30MΩ maximum • Insulation Resistance: 500MΩ minimum • Durability (Mating Cycles): 20 Cycles • Temperature Range: -55°C ~ 85°C • Current Rating: 0.5A AC/DC • Voltage Rating: 100V AC/DC

No. of Positions	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
4	0.339 (8.60)	0.094 (2.40)	609-1170-1-ND	.94	.49	.41	609-1170-2-ND	2,000	313.20/M	SFR4R-1STE1LF
6	0.402 (10.20)	0.157 (4.00)	609-1171-1-ND	.95	.48	.41	609-1171-2-ND	2,000	317.25/M	SFR6R-1STE1LF
8	0.465 (11.80)	0.220 (5.60)	609-1172-1-ND	1.01	.53	.45	609-1172-2-ND	2,000	334.31/M	SFR8R-1STE1LF
10	0.528 (13.40)	0.283 (7.20)	609-1173-1-ND	1.11	.59	.51	609-1173-2-ND	2,000	377.34/M	SFR10R-1STE1LF
12	0.591(15.00)	0.346 (8.80)	609-1174-1-ND	1.06	.59	.50	609-1174-2-ND	2,000	384.83/M	SFR12R-1STE1LF
14	0.654 (16.60)	0.409 (10.40)	609-1175-1-ND	1.09	.60	.51	609-1175-2-ND	4,000	380.38/M	SFR14R-1STE1LF
16	0.717 (18.20)	0.472 (12.00)	609-1176-1-ND	1.10	.61	.51	609-1176-2-ND	2,000	399.33/M	SFR16R-1STE1LF
18	0.780 (19.80)	0.535 (13.60)	609-1177-1-ND	1.84	1.02	.86	609-1177-2-ND	2,000	668.31/M	SFR18R-1STE1LF
20	0.843 (21.40)	0.598 (15.20)	609-1178-1-ND	1.35	.73	.63	609-1178-2-ND	2,000	502.43/M	SFR20R-1STE1LF
22	0.906 (23.00)	0.661 (16.80)	609-1179-1-ND	1.41	.76	.65	609-1179-2-ND	2,000	523.45/M	SFR22R-1STE1LF
24	0.969 (24.60)	0.724 (18.40)	609-1180-1-ND	1.25	.71	.58	609-1180-2-ND	2,000	465.02/M	SFR24R-1STE1LF
26	1.031 (26.20)	0.787 (20.00)	609-1181-1-ND	1.38	.75	.64	609-1181-2-ND	2,000	511.56/M	SFR26R-1STE1LF
28	1.094 (27.80)	0.850 (21.60)	609-1182-1-ND	1.48	.80	.69	609-1182-2-ND	2,000	550.71/M	SFR28R-1STE1LF
30	1.157 (29.40)	0.913 (23.20)	609-1183-1-ND	2.96	1.60	1.37	609-1183-2-ND	2,000	1101.57/M	SFR30R-1STE1LF

1.00 mm (0.039”) FFC-FPC Connectors

The Gas-Tight, High pressure (GTH) contact system ensures a low cost connection with reliability equal to gold plating. The Zero Insertion Force connection allows an increased number of mating cycles with minimal wear. The ZIF pre-holding process allows a stable and reliable mating operation. The Low Insertion Force (LIF) contacts positioning provides a reliable and easy mating operation. The slider ensures maximum cable retention with a minimum size. Fork shaped contacts mean stable and low contact resistance. Kinked solder tails provide added PCB retention.

Specifications: • Current Rating: 1A AC/DC • Voltage Rating: 100V AC/DC • Contact Resistance: 30mΩ maximum • Insulation Resistance: 500MΩ minimum • Durability (Mating Cycles): ZIF - 20 cycles, LIF - 30 cycles • Temperature Range: -55°C ~ 85°C

SLW Series: • Housing: Nylon, Glass Reinforced, UL94V-0, Black • Slider: Nylon, Glass Reinforced, UL94V-0, Black • Contact: Phosphor Bronze, Tin Alloy Plated

HLW Series: • Housing: PBT, Glass Reinforced, UL94V-0, Black • Contact: Phosphor Bronze, Tin Alloy Plated

HFW Series: • Housing: Polyamide 6T, Glass Reinforced, UL94V-0, Black • Contact: Phosphor Bronze, Tin Alloy Plated

SFW Series: • Housing: *For Right Angle Version:* PPS, Glass Reinforced, UL94V-0 *For FPC/FCC:* Housing Color: Brown (with cable-lock: Black) Slider Color: Black (with cable-lock: Brown) *For Vertical Version:* Heat-Resisting Resin, Glass Reinforced, UL94V-0 Housing Color: Brown Slider Color: Black • Contact Phosphor Bronze, Tin Alloy Plated

Fig. 1

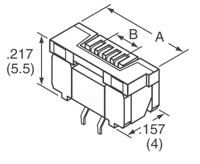

Fig. 2

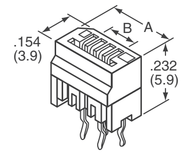

Fig. 3

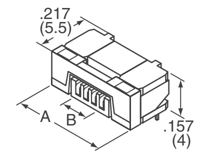

Fig. 4

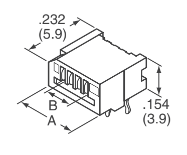

Fig. 5

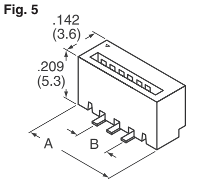

Fig. 6

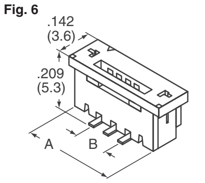

Fig. 7

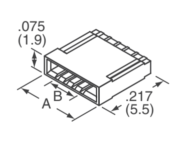

Fig. 8

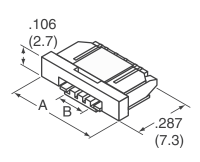

Fig.	No. of Positions	Dimension - Inch (mm) A	B	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
SLW Series — Top Entry PC Mount ZIF											
1	4	0.402 (10.20)	0.205 (5.20)	609-1929-ND†	.55	6.69	21.42	—	—	—	SLW4S-1C7LF
	5	0.441 (11.20)	0.244 (6.20)	609-1931-ND†	.83	8.52	27.26	—	—	—	SLW5S-1C7LF
	6	0.480 (12.20)	0.283 (7.20)	609-1933-ND†	.68	7.03	22.50	—	—	—	SLW6S-1C7LF
	8	0.559 (14.20)	0.362 (9.20)	609-1935-ND†	.58	7.06	22.58	—	—	—	SLW8S-1C7LF
	10	0.638 (16.20)	0.441 (11.20)	609-1937-ND†	.63	7.81	25.00	—	—	—	SLW10S-1C7LF

† Bulk

(Continued)

1.00 mm (0.039”) FFC-FPC Connectors *(Cont.)*

Fig.	No. of Positions	Dimension - Inch (mm) A	B	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
1	12	0.717 (18.20)	0.520 (13.20)	609-1939-ND†	1.19	16.34	54.95	—	—	—	SLW12S-1C7LF
	14	0.795 (20.20)	0.598 (15.20)	609-1941-ND†	.72	8.77	29.24	—	—	—	SLW14S-1C7LF
	15	0.835 (21.20)	0.638 (16.20)	609-1943-ND†	1.35	18.13	62.15	—	—	—	SLW15S-1C7LF
	16	0.874 (22.20)	0.677 (17.20)	609-1945-ND†	1.33	17.87	61.25	—	—	—	SLW16S-1C7LF
	18	0.953 (24.20)	0.756 (19.20)	609-1947-ND†	1.01	10.38	35.20	—	—	—	SLW18S-1C7LF
	20	1.031 (26.20)	0.835 (21.20)	609-1949-ND†	1.02	13.38	45.18	—	—	—	SLW20S-1C7LF
	22	1.110 (28.20)	0.913 (23.20)	609-1951-ND†	.78	9.78	31.79	—	—	—	SLW22S-1C7LF
	24	1.189 (30.20)	0.992 (25.20)	609-1953-ND†	2.16	21.58	73.98	—	—	—	SLW24S-1C7LF
	26	1.268 (32.20)	1.071 (27.20)	609-1955-ND†	.87	10.21	33.19	—	—	—	SLW26S-1C7LF
	28	1.346 (34.20)	1.150 (29.20)	609-1957-ND†	.64	7.97	25.50	—	—	—	SLW28S-1C7LF
	30	1.425 (36.20)	1.228 (31.20)	609-1959-ND†	1.10	15.16	51.00	—	—	—	SLW30S-1C7LF
HLW Series — Top Entry PC Mount LIF											
2	4	0.260 (6.60)	0.118 (3.00)	609-1815-ND†	.23	2.54	7.83	—	—	—	HLW4S-2C7LF
	5	0.300 (7.60)	0.157 (4.00)	609-1817-ND†	.25	2.71	8.40	—	—	—	HLW5S-2C7LF
	6	0.339 (8.60)	0.197 (5.00)	609-1819-ND†	.26	2.81	8.71	—	—	—	HLW6S-2C7LF
	8	0.417 (10.60)	0.276 (7.00)	609-1821-ND†	.30	3.29	10.07	—	—	—	HLW8S-2C7LF
	10	0.496 (12.60)	0.354 (9.00)	609-1823-ND†	.27	2.91	9.00	—	—	—	HLW10S-2C7LF
	12	0.575 (14.60)	0.433 (11.00)	609-1825-ND†	.46	5.49	17.89	—	—	—	HLW12S-2C7LF
	14	0.654 (16.60)	0.512 (13.00)	609-1827-ND†	.29	3.38	10.35	—	—	—	HLW14S-2C7LF
	15	0.693 (17.60)	0.551 (14.00)	609-1829-ND†	.34	3.94	12.67	—	—	—	HLW15S-2C7LF
	16	0.732 (18.60)	0.591 (15.00)	609-1831-ND†	.35	4.03	12.94	—	—	—	HLW16S-2C7LF
	18	0.811 (20.60)	0.670 (17.00)	609-1833-ND†	.37	4.29	13.49	—	—	—	HLW18S-2C7LF
	20	0.890 (22.60)	0.748 (19.00)	609-1835-ND†	.38	4.38	13.75	—	—	—	HLW20S-2C7LF
	22	0.969 (24.60)	0.827 (21.00)	609-1837-ND†	.38	4.55	14.30	—	—	—	HLW22S-2C7LF
	24	1.047 (26.60)	0.906 (23.00)	609-1839-ND†	.39	4.64	14.59	—	—	—	HLW24S-2C7LF
	26	1.126 (28.60)	0.984 (25.00)	609-1841-ND†	.41	4.90	15.69	—	—	—	HLW26S-2C7LF
	28	1.205 (30.60)	1.063 (27.00)	609-1843-ND†	.42	5.07	16.24	—	—	—	HLW28S-2C7LF
	30	1.283 (32.60)	1.142 (29.00)	609-1845-ND†	.42	5.07	16.24	—	—	—	HLW30S-2C7LF
SLW Series — Side Entry PC Mount ZIF											
3	4	0.402 (10.20)	0.205 (5.20)	609-1928-ND†	.52	6.10	19.70	—	—	—	SLW4R-1C7LF
	5	0.441 (11.20)	0.244 (6.20)	609-1930-ND†	.41	4.90	15.69	—	—	—	SLW5R-1C7LF
	6	0.480 (12.20)	0.283 (7.20)	609-1932-ND†	.41	4.90	15.69	—	—	—	SLW6R-1C7LF
	8	0.559 (14.20)	0.362 (9.20)	609-1934-ND†	.55	6.72	21.50	—	—	—	SLW8R-1C7LF
	10	0.638 (16.20)	0.441 (11.20)	609-1936-ND†	.61	7.45	23.84	—	—	—	SLW10R-1C7LF
	12	0.717 (18.20)	0.520 (13.20)	609-1938-ND†	1.20	16.46	55.35	—	—	—	SLW12R-1C7LF
	14	0.795 (20.20)	0.598 (15.20)	609-1940-ND†	.82	10.07	34.16	—	—	—	SLW14R-1C7LF
	15	0.835 (21.20)	0.638 (16.20)	609-1942-ND†	.71	8.52	28.40	—	—	—	SLW15R-1C7LF
	16	0.874 (22.20)	0.677 (17.20)	609-1944-ND†	.74	9.02	30.06	—	—	—	SLW16R-1C7LF
	18	0.953 (24.20)	0.756 (19.20)	609-1946-ND†	.83	10.18	34.53	—	—	—	SLW18R-1C7LF
	20	1.031 (26.20)	0.835 (21.20)	609-1948-ND†	.78	9.76	31.73	—	—	—	SLW20R-1C7LF
	22	1.110 (28.20)	0.913 (23.20)	609-1950-ND†	.84	10.64	34.57	—	—	—	SLW22R-1C7LF
	24	1.189 (30.20)	0.992 (25.20)	609-1952-ND†	.85	10.43	35.37	—	—	—	SLW24R-1C7LF
	26	1.268 (32.20)	1.071 (27.20)	609-1954-ND†	.87	10.93	37.07	—	—	—	SLW26R-1C7LF
	28	1.346 (34.20)	1.150 (29.20)	609-1956-ND†	.69	8.25	27.50	—	—	—	SLW28R-1C7LF
	30	1.425 (36.20)	1.228 (31.20)	609-1958-ND†	1.05	13.69	47.29	—	—	—	SLW30R-1C7LF
HLW Series — Side Entry PC Mount LIF											
4	4	0.260 (6.60)	0.118 (3.00)	609-1814-ND†	.20	2.27	6.88	—	—	—	HLW4R-2C7LF
	5	0.300 (7.60)	0.157 (4.00)	609-1816-ND†	.25	2.70	8.11	—	—	—	HLW5R-2C7LF
	6	0.339 (8.60)	0.197 (5.00)	609-1818-ND†	.25	2.71	8.40	—	—	—	HLW6R-2C7LF
	8	0.417 (10.60)	0.276 (7.00)	609-1820-ND†	.27	3.00	9.60	—	—	—	HLW8R-2C7LF
	10	0.496 (12.60)	0.354 (9.00)	609-1822-ND†	.27	2.91	9.00	—	—	—	HLW10R-2C7LF
	12	0.575 (14.60)	0.433 (11.00)	609-1824-ND†	.30	3.24	10.65	—	—	—	HLW12R-2C7LF
	14	0.654 (16.60)	0.512 (13.00)	609-1826-ND†	.31	3.50	11.25	—	—	—	HLW14R-2C7LF
	15	0.693 (17.60)	0.551 (14.00)	609-1828-ND†	.57	7.01	22.42	—	—	—	HLW15R-2C7LF
	16	0.732 (18.60)	0.591 (15.00)	609-1830-ND†	.34	3.85	12.38	—	—	—	HLW16R-2C7LF
	18	0.811 (20.60)	0.670 (17.00)	609-1832-ND†	.35	4.03	12.94	—	—	—	HLW18R-2C7LF
	20	0.890 (22.60)	0.748 (19.00)	609-1834-ND†	.37	4.29	13.49	—	—	—	HLW20R-2C7LF
	22	0.969 (24.60)	0.827 (21.00)	609-1836-ND†	.38	4.47	14.04	—	—	—	HLW22R-2C7LF
	24	1.047 (26.60)	0.906 (23.00)	609-1838-ND†	.38	4.55	14.30	—	—	—	HLW24R-2C7LF
	26	1.126 (28.60)	0.984 (25.00)	609-1840-ND†	.41	4.82	15.14	—	—	—	HLW26R-2C7LF
	28	1.205 (30.60)	1.063 (27.00)	609-1842-ND†	.41	4.90	15.69	—	—	—	HLW28R-2C7LF
	30	1.283 (32.60)	1.142 (29.00)	609-1844-ND†	.42	4.98	15.95	—	—	—	HLW30R-2C7LF
HFW Series — Top Entry SMT Non-ZIF											
5	4	0.276 (7.00)	0.118 (3.00)	609-1105-1-ND	.42	5.25	16.97	609-1105-2-ND	1,000	133.32	HFW4S-2STE1LF
	5	0.315 (8.00)	0.157 (4.00)	609-1106-1-ND	.70	8.80	28.16	609-1106-2-ND	1,000	232.32	HFW5S-2STE1LF
	6	0.354 (9.00)	0.197 (5.00)	609-1107-1-ND	.42	5.25	16.97	609-1107-2-ND	1,000	169.68	HFW6S-2STE1LF
	7	0.394 (10.00)	0.236 (6.00)	609-1108-1-ND	.58	7.07	22.62	609-1108-2-ND	1,000	184.35	HFW7S-2STE1LF
	8	0.433 (11.00)	0.276 (7.00)	609-1109-1-ND	.75	9.37	30.46	609-1109-2-ND	1,000	249.92	HFW8S-2STE1LF
	9	0.472 (12.00)	0.315 (8.00)	609-1110-1-ND	.38	4.71	15.08	609-1110-2-ND	1,000	122.90	HFW9S-2STE1LF
	10	0.512 (13.00)	0.354 (9.00)	609-1111-1-ND	.79	9.99	32.47	609-1111-2-ND	1,000	266.40	HFW10S-2STE1LF
	11	0.551 (14.00)	0.394 (10.00)	609-1112-1-ND	.68	8.33	26.64	609-1112-2-ND	1,000	187.94	HFW11S-2STE1LF
	12	0.591 (15.00)	0.433 (11.00)	609-1113-1-ND	.83	10.16	34.46	609-1113-2-ND	1,000	282.72	HFW12S-2STE1LF
	13	0.630 (16.00)	0.472 (12.00)	609-1114-1-ND	.60	7.41	23.70	609-1114-2-ND	1,000	193.16	HFW13S-2STE1LF
	14	0.670 (17.00)	0.512 (13.00)	609-1115-1-ND	.86	10.75	34.40	609-1115-2-ND	1,000	280.36	HFW14S-2STE1LF
	15	0.709 (18.00)	0.551 (14.00)	609-1116-1-ND	.81	10.13	32.40	609-1116-2-ND	1,000	264.06	HFW15S-2STE1LF
	16	0.748 (19.00)	0.591 (15.00)	609-1117-1-ND	1.01	12.07	40.24	609-1117-2-ND	2,000	327.96/M	HFW16S-2STE1LF
	17	0.787 (20.00)	0.630 (16.00)	609-1118-1-ND	.66	7.89	26.30	609-1118-2-ND	1,000	214.35	HFW17S-2STE1LF
	18	0.827 (21.00)	0.670 (17.00)	609-1119-1-ND	.89	11.11	37.69	609-1119-2-ND	1,000	309.28	HFW18S-2STE1LF
	19	0.866 (22.00)	0.709 (18.00)	609-1120-1-ND	.69	8.41	28.02	609-1120-2-ND	1,000	228.36	HFW19S-2STE1LF
	20	0.906 (23.00)	0.748 (19.00)	609-1121-1-ND	1.21	14.48	48.26	609-1121-2-ND	1,000	393.16	HFW20S-2STE1LF
	21	0.945 (24.00)	0.787 (20.00)	609-1122-1-ND	.73	8.99	29.96	609-1122-2-ND	1,000	244.17	HFW21S-2STE1LF
	22	0.984 (25.00)	0.827 (21.00)	609-1123-1-ND	.74	9.05	30.18	609-1123-2-ND	1,000	245.97	HFW22S-2STE1LF
	23	1.024 (26.00)	0.866 (22.00)	609-1124-1-ND	.84	10.54	33.74	609-1124-2-ND	1,000	254.77	HFW23S-2STE1LF
	24	1.063 (27.00)	0.906 (23.00)	609-1125-1-ND	.79	9.70	32.32	609-1125-2-ND	2,000	258.56/M	HFW24S-2STE1LF
	25	1.102 (28.00)	0.945 (24.00)	609-1126-1-ND	.83	10.34	33.62	609-1126-2-ND	1.000	275.84	HFW25S-2STE1LF
	26	1.142 (29.00)	0.984 (25.00)	609-1127-1-ND	.95	11.86	38.55	609-1127-2-ND	1,000	316.32	HFW26S-2STE1LF
	27	1.181 (30.00)	1.024 (26.00)	609-1128-1-ND	.89	11.12	36.13	609-1128-2-ND	1,000	296.48	HFW27S-2STE1LF
	28	1.220 (31.00)	1.063 (27.00)	609-1129-1-ND	1.04	14.26	47.95	609-1129-2-ND	1,000	414.72	HFW28S-2STE1LF
	29	1.260 (32.00)	1.102 (28.00)	609-1130-1-ND	.98	12.41	40.35	609-1130-2-ND	1,000	319.04	HFW29S-2STE1LF
	32	1.378 (35.00)	1.220 (31.00)	609-1131-1-ND	.96	11.77	39.92	609-1131-2-ND	1,000	327.52	HFW32S-2STE1LF
SFW Series — Top Entry SMT ZIF (Without Mounting Plate)											
6	4	0.409 (10.40)	0.118 (3.00)	609-1132-1-ND	.94	11.82	38.42	609-1132-2-ND	1,000	315.20	SFW4S-2STE1LF
	5	0.449 (11.40)	0.157 (4.00)	609-1134-1-ND	.72	9.05	29.41	609-1134-2-ND	1,000	303.04	SFW5S-2STE1LF
	6	0.488 (12.40)	0.197 (5.00)	609-1136-1-ND	.94	11.52	39.08	609-1136-2-ND	1,000	320.64	SFW6S-2STE1LF
	8	0.567 (14.40)	0.276 (7.00)	609-1139-1-ND	1.01	12.64	41.07	609-1139-2-ND	1,000	336.96	SFW8S-2STE1LF
	10	0.646 (16.40)	0.354 (9.00)	609-1140-1-ND	.83	10.19	34.57	609-1140-2-ND	1,000	348.96	SFW10S-2STE1LF
	11	0.685 (17.40)	0.394 (10.00)	609-1142-1-ND	.85	10.65	36.13	609-1142-2-ND	1,000	296.48	SFW11S-2STE1LF
	12	0.724 (18.40)	0.433 (11.00)	609-1144-1-ND	.86	10.97	37.19	609-1144-2-ND	1,000	305.12	SFW12S-2STE1LF
	14	0.803 (20.40)	0.512 (13.00)	609-1146-1-ND	1.03	13.47	45.51	609-1146-2-ND	1,000	371.23	SFW14S-2STE1LF
	15	0.843 (21.40)	0.551 (14.00)	609-1148-1-ND	1.01	12.91	43.80	609-1148-2-ND	1,000	359.36	SFW15S-2STE1LF
	16	0.882 (22.40)	0.591 (15.00)	609-1150-1-ND	1.12	14.34	48.63	609-1150-2-ND	1,000	399.04	SFW16S-2STE1LF
	17	0.921 (23.40)	0.630 (16.00)	609-1152-1-ND	.96	12.00	40.55	609-1152-2-ND	1,000	330.77	SFW17S-2STE1LF
	18	0.961 (24.40)	0.670 (17.00)	609-1154-1-ND	1.09	13.87	47.03	609-1154-2-ND	1,000	373.86	SFW18S-2STE1LF
	20	1.040 (26.40)	0.748 (19.00)	609-1156-1-ND	.68	8.13	27.10	609-1156-2-ND	1,000	421.84	SFW20S-2STE1LF
	22	1.118 (28.40)	0.827 (21.00)	609-1158-1-ND	1.07	14.69	49.41	609-1158-2-ND	1,000	414.01	SFW22S-2STE1LF
	23	1.157 (29.40)	0.866 (22.00)	609-1160-1-ND	.99	12.61	42.58	609-1160-2-ND	1,000	347.36	SFW23S-2STE1LF
	24	1.197 (30.40)	0.906 (23.00)	609-1162-1-ND	1.42	19.55	65.77	609-1162-2-ND	1,000	543.92	SFW24S-2STE1LF

† Bulk

(Continued)

1.00 mm (0.039”) FFC-FPC Connectors *(Cont.)*

Fig.	No. of Positions	Dimension - Inch (mm) A	B	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
6	26	1.276 (32.40)	0.984 (25.00)	609-1164-1-ND	1.19	15.53	52.44	609-1164-2-ND	1,000	427.80	SFW26S-2STE1LF
	28	1.354 (34.40)	1.063 (27.00)	609-1166-1-ND	1.40	19.78	64.73	609-1166-2-ND	1,000	539.40	SFW28S-2STE1LF
	30	1.433 (36.40)	1.142 (29.00)	609-1168-1-ND	1.29	16.85	58.22	609-1168-2-ND	1,000	474.92	SFW30S-2STE1LF
SFW Series — Top Entry SMT ZIF With Mounting Plate											
6	4	0.409 (10.40)	0.118 (3.00)	609-1133-1-ND	.92	11.52	39.08	609-1133-2-ND	1,000	320.64	SFW4S-2STME1LF
	5	0.449 (11.40)	0.157 (4.00)	609-1135-1-ND	.93	11.42	38.73	609-1135-2-ND	1,000	317.76	SFW5S-2STME1LF
	6	0.488 (12.40)	0.197 (5.00)	609-1137-1-ND	.97	12.10	41.03	609-1137-2-ND	1,000	336.64	SFW6S-2STME1LF
	8	0.567 (14.40)	0.276 (7.00)	609-1138-1-ND	.83	10.20	34.59	609-1138-2-ND	1,000	365.76	SFW8S-2STME1LF
	10	0.646 (16.40)	0.354 (9.00)	609-1141-1-ND	.85	10.34	35.08	609-1141-2-ND	1,000	377.76	SFW10S-2STME1LF
	11	0.685 (17.40)	0.394 (10.00)	609-1143-1-ND	.90	11.22	37.89	609-1143-2-ND	1,000	309.07	SFW11S-2STME1LF
	12	0.724 (18.40)	0.433 (11.00)	609-1145-1-ND	.87	11.15	37.68	609-1145-2-ND	1,000	307.37	SFW12S-2STME1LF
	14	0.803 (20.40)	0.512 (13.00)	609-1147-1-ND	1.18	14.80	50.19	609-1147-2-ND	1,000	411.84	SFW14S-2STME1LF
	15	0.843 (21.40)	0.551 (14.00)	609-1149-1-ND	.95	11.82	39.92	609-1149-2-ND	1,000	325.66	SFW15S-2STME1LF
	16	0.882 (22.40)	0.591 (15.00)	609-1151-1-ND	1.10	14.43	48.75	609-1151-2-ND	1,000	397.73	SFW16S-2STME1LF
	17	0.921 (23.40)	0.630 (16.00)	609-1153-1-ND	.93	12.12	40.95	609-1153-2-ND	1,000	334.03	SFW17S-2STME1LF
	18	0.961 (24.40)	0.670 (17.00)	609-1155-1-ND	.97	12.43	41.97	609-1155-2-ND	1,000	342.40	SFW18S-2STME1LF
	20	1.040 (26.40)	0.748 (19.00)	609-1157-1-ND	1.26	16.46	55.59	609-1157-2-ND	1,000	453.53	SFW20S-2STME1LF
	22	1.118 (28.40)	0.827 (21.00)	609-1159-1-ND	.70	9.24	31.22	609-1159-2-ND	1,000	254.67	SFW22S-2STME1LF
	23	1.157 (29.40)	0.866 (22.00)	609-1161-1-ND	1.00	13.04	45.05	609-1161-2-ND	1,000	367.51	SFW23S-2STME1LF
	24	1.197 (30.40)	0.906 (23.00)	609-1163-1-ND	.92	12.12	40.95	609-1163-2-ND	1,000	334.03	SFW24S-2STME1LF
	26	1.276 (32.40)	0.984 (25.00)	609-1165-1-ND	1.44	18.88	65.23	609-1165-2-ND	1,000	532.12	SFW26S-2STME1LF
	28	1.354 (34.40)	1.063 (27.00)	609-1167-1-ND	1.40	18.38	63.48	609-1167-2-ND	1,000	517.86	SFW28S-2STME1LF
	30	1.433 (36.40)	1.142 (29.00)	609-1169-1-ND	1.48	20.36	68.47	609-1169-2-ND	1,000	566.25	SFW30S-2STME1LF
HFW Series — Side Entry SMT LIF, Lower Contact Type											
7	4	0.260 (6.60)	0.118 (3.00)	609-1782-1-ND	.68	8.48	27.12	609-1782-2-ND	2,000	207.47/M	HFW4R-1STE1LF
	5	0.300 (7.60)	0.157 (4.00)	609-1784-1-ND	.50	5.85	18.90	609-1784-2-ND	2,000	144.00/M	HFW5R-1STE1LF
	6	0.339 (8.60)	0.197 (5.00)	609-1786-1-ND	.35	4.23	13.65	609-1786-2-ND	2,000	104.00/M	HFW6R-1STE1LF
	8	0.417 (10.60)	0.276 (7.00)	609-1788-1-ND	.78	9.91	32.19	609-1788-2-ND	2,000	252.60/M	HFW8R-1STE1LF
	10	0.496 (12.60)	0.354 (9.00)	609-1790-1-ND	.79	9.99	32.47	609-1790-2-ND	2,000	249.75/M	HFW10R-1STE1LF
	12	0.575 (14.60)	0.433 (11.00)	609-1792-1-ND	.50	6.18	19.76	609-1792-2-ND	2,000	153.14/M	HFW12R-1STE1LF
	14	0.654 (16.60)	0.512 (13.00)	609-1794-1-ND	.89	11.41	38.69	609-1794-2-ND	2,000	297.60/M	HFW14R-1STE1LF
	15	0.693 (17.60)	0.551 (14.00)	609-1796-1-ND	.93	11.67	39.43	609-1796-2-ND	2,000	311.25/M	HFW15R-1STE1LF
	16	0.732 (18.60)	0.591 (15.00)	609-1798-1-ND	.82	9.88	33.52	609-1798-2-ND	2,000	257.85/M	HFW16R-1STE1LF
	18	0.811 (20.60)	0.670 (17.00)	609-1800-1-ND	.89	11.11	37.69	609-1800-2-ND	2,000	289.95/M	HFW18R-1STE1LF
	20	0.890 (22.60)	0.748 (19.00)	609-1802-1-ND	.58	6.94	23.12	609-1802-2-ND	2,000	176.87/M	HFW20R-1STE1LF
	22	0.969 (24.60)	0.827 (21.00)	609-1804-1-ND	.64	8.01	25.62	609-1804-2-ND	2,000	196.00/M	HFW22R-1STE1LF
	24	1.047(26.60)	0.906 (23.00)	609-1806-1-ND	.71	8.72	29.08	609-1806-2-ND	2,000	205.63/M	HFW24R-1STE1LF
	26	1.126 (28.60)	0.984 (25.00)	609-1808-1-ND	.69	8.66	28.16	609-1808-2-ND	2,000	216.60/M	HFW26R-1STE1LF
	28	1.205 (30.60)	1.063 (27.00)	609-1810-1-ND	.75	9.38	30.48	609-1810-2-ND	2,000	234.45/M	HFW28R-1STE1LF
	30	1.283 (32.60)	1.142 (29.00)	609-1812-1-ND	1.11	15.22	51.19	609-1812-2-ND	2,000	401.22/M	HFW30R-1STE1LF
HFW Series — Side Entry SMT LIF, Upper Contact Type											
7	4	0.260 (6.60)	0.118 (3.00)	609-1783-1-ND	.77	9.61	31.22	609-1783-2-ND	2,000	240.15/M	HFW4R-2STE1LF
	5	0.300 (7.60)	0.157 (4.00)	609-1785-1-ND	.51	6.14	19.85	609-1785-2-ND	2,000	151.20/M	HFW5R-2STE1LF
	6	0.339 (8.60)	0.197 (5.00)	609-1787-1-ND	.35	4.23	13.65	609-1787-2-ND	2,000	104.00/M	HFW6R-2STE1LF
	8	0.417 (10.60)	0.276 (7.00)	609-1789-1-ND	.99	12.22	39.48	609-1789-2-ND	2,000	300.80/M	HFW8R-2STE1LF
	10	0.496 (12.60)	0.354 (9.00)	609-1791-1-ND	.73	9.19	29.85	609-1791-2-ND	2,000	229.65/M	HFW10R-2STE1LF
	12	0.575 (14.60)	0.433 (11.00)	609-1793-1-ND	.92	11.26	36.02	609-1793-2-ND	2,000	279.16/M	HFW12R-2STE1LF
	14	0.654 (16.60)	0.512 (13.00)	609-1795-1-ND	.80	10.09	32.80	609-1795-2-ND	2,000	252.30/M	HFW14R-2STE1LF
	15	0.693 (17.60)	0.551 (14.00)	609-1797-1-ND	.51	6.25	20.00	609-1797-2-ND	2,000	155.00/M	HFW15R-2STE1LF
	16	0.732 (18.60)	0.591 (15.00)	609-1799-1-ND	.53	6.44	20.62	609-1799-2-ND	2,000	159.81/M	HFW16R-2STE1LF
	18	0.811 (20.60)	0.670 (17.00)	609-1801-1-ND	.65	7.84	26.12	609-1801-2-ND	2,000	166.47/M	HFW18R-2STE1LF
	20	0.890 (22.60)	0.748 (19.00)	609-1803-1-ND	1.31	15.76	52.52	609-1803-2-ND	2,000	401.78/M	HFW20R-2STE1LF
	22	0.969 (24.60)	0.827 (21.00)	609-1805-1-ND	.68	8.53	27.28	609-1805-2-ND	2,000	208.69/M	HFW22R-2STE1LF
	24	1.047 (26.60)	0.906 (23.00)	609-1807-1-ND	1.19	14.60	48.66	609-1807-2-ND	2,000	372.25/M	HFW24R-2STE1LF
	26	1.126 (28.60)	0.984 (25.00)	609-1809-1-ND	.69	8.66	28.16	609-1809-2-ND	2,000	216.60/M	HFW26R-2STE1LF
	28	1.205 (30.60)	1.063 (27.00)	609-1811-1-ND	.77	9.77	31.75	609-1811-2-ND	2,000	234.45/M	HFW28R-2STE1LF
	30	1.283 (32.60)	1.142 (29.00)	609-1813-1-ND	1.29	15.81	53.61	609-1813-2-ND	2,000	412.35/M	HFW30R-2STE1LF
SFW Series — Side Entry SMT ZIF, Lower Contact Type											
8	4	0.386 (9.80)	0.118 (3.00)	609-1883-1-ND	.91	11.36	38.53	609-1883-2-ND	2,000	296.40/M	SFW4R-1STE1LF
	5	0.425 (10.80)	0.157 (4.00)	609-1887-1-ND	.91	11.59	39.31	609-1887-2-ND	2,000	302.40/M	SFW5R-1STE1LF
	6	0.465 (11.80)	0.197 (5.00)	609-1889-1-ND	1.24	15.26	48.82	609-1889-2-ND	2,000	378.36/M	SFW6R-1STE1LF
	8	0.543 (13.80)	0.276 (7.00)	609-1893-1-ND	.79	9.97	32.41	609-1893-2-ND	2,000	249.30/M	SFW8R-1STE1LF
	10	0.622 (15.80)	0.354 (9.00)	609-1897-1-ND	1.00	13.13	44.35	609-1897-2-ND	2,000	350.10/M	SFW10R-1STE1LF
	12	0.701 (17.80)	0.433 (11.00)	609-1900-1-ND	.89	11.11	37.67	609-1900-2-ND	2,000	289.80/M	SFW12R-1STE1LF
	14	0.780 (19.80)	0.512 (13.00)	609-1902-1-ND	.90	11.52	39.08	609-1902-2-ND	2,000	300.60/M	SFW14R-1STE1LF
	15	0.819 (20.80)	0.551 (14.00)	609-1905-1-ND	.97	12.35	41.71	609-1905-2-ND	2,000	329.25/M	SFW15R-1STE1LF
	16	0.858 (21.80)	0.591 (15.00)	609-1907-1-ND	1.15	15.75	52.98	609-1907-2-ND	2,000	415.28/M	SFW16R-1STE1LF
	18	0.937 (23.80)	0.670 (17.00)	609-1911-1-ND	.97	12.71	42.92	609-1911-2-ND	2,000	338.85/M	SFW18R-1STE1LF
	20	1.016 (25.80)	0.748 (19.00)	609-1913-1-ND	1.41	19.46	66.73	609-1913-2-ND	2,000	537.52/M	SFW20R-1STE1LF
	22	1.094 (27.80)	0.827 (21.00)	609-1916-1-ND	1.03	13.48	46.55	609-1916-2-ND	2,000	367.50/M	SFW22R-1STE1LF
	24	1.173 (29.80)	0.906 (23.00)	609-1919-1-ND	1.03	14.14	47.56	609-1919-2-ND	2,000	372.80/M	SFW24R-1STE1LF
	26	1.252 (31.80)	0.984 (25.00)	609-1921-1-ND	1.54	20.82	72.85	609-1921-2-ND	2,000	593.23/M	SFW26R-1STE1LF
	28	1.331 (33.80)	1.063 (27.00)	609-1924-1-ND	.90	11.25	38.00	609-1924-2-ND	2,000	420.00/M	SFW28R-1STE1LF
	30	1.409 (35.80)	1.142 (29.00)	609-1926-1-ND	1.25	17.68	57.85	609-1926-2-ND	2,000	466.03/M	SFW30R-1STE1LF
SFW Series — Side Entry SMT ZIF, Upper Contact Type											
8	4	0.386 (9.80)	0.118 (3.00)	609-1884-1-ND	.68	8.51	28.86	609-1884-2-ND	2,000	286.35/M	SFW4R-2STE1LF
	5	0.425 (10.80)	0.157 (4.00)	609-1888-1-ND	.88	10.98	37.23	609-1888-2-ND	2,000	286.35/M	SFW5R-2STE1LF
	6	0.465 (11.80)	0.197 (5.00)	609-1890-1-ND	1.02	13.47	45.49	609-1890-2-ND	2,000	359.10/M	SFW6R-2STE1LF
	8	0.543 (13.80)	0.276 (7.00)	609-1894-1-ND	.78	9.74	31.65	609-1894-2-ND	2,000	243.45/M	SFW8R-2STE1LF
	10	0.622 (15.80)	0.354 (9.00)	609-1898-1-ND	1.19	14.88	47.60	609-1898-2-ND	2,000	364.14/M	SFW10R-2STE1LF
	12	0.701 (17.80)	0.433 (11.00)	609-1901-1-ND	1.06	14.59	49.06	609-1901-2-ND	2,000	384.54/M	SFW12R-2STE1LF
	14	0.780 (19.80)	0.512 (13.00)	609-1903-1-ND	1.19	16.35	55.00	609-1903-2-ND	2,000	431.09/M	SFW14R-2STE1LF
	15	0.819 (20.80)	0.551 (14.00)	609-1906-1-ND	.93	11.59	39.14	609-1906-2-ND	2,000	309.00/M	SFW15R-2STE1LF
	16	0.858 (21.80)	0.591 (15.00)	609-1908-1-ND	.95	11.94	40.32	609-1908-2-ND	2,000	318.30/M	SFW16R-2STE1LF
	18	0.937 (23.80)	0.670 (17.00)	609-1912-1-ND	1.19	16.34	54.95	609-1912-2-ND	2,000	430.65/M	SFW18R-2STE1LF
	20	1.016 (25.80)	0.748 (19.00)	609-1914-1-ND	1.07	14.00	48.37	609-1914-2-ND	2,000	381.90/M	SFW20R-2STE1LF
	22	1.094 (27.80)	0.827 (21.00)	609-1917-1-ND	1.03	13.52	46.70	609-1917-2-ND	2,000	368.70/M	SFW22R-2STE1LF
	24	1.173 (29.80)	0.906 (23.00)	609-1920-1-ND	1.46	20.43	70.04	609-1920-2-ND	2,000	554.47/M	SFW24R-2STE1LF
	26	1.252 (31.80)	0.984 (25.00)	609-1922-1-ND	1.34	18.04	61.87	609-1922-2-ND	2,000	498.37/M	SFW26R-2STE1LF
	28	1.331 (33.80)	1.063 (27.00)	609-1925-1-ND	1.28	16.06	54.25	609-1925-2-ND	2,000	428.25/M	SFW28R-2STE1LF
	30	1.409 (35.80)	1.142 (29.00)	609-1927-1-ND	1.64	22.13	77.44	609-1927-2-ND	2,000	630.57/M	SFW30R-2STE1LF
SFW Series — Side Entry SMT ZIF, Lower Contact Type With Cable Lock Mechanism											
8	4	0.386 (9.80)	0.118 (3.00)	609-1885-1-ND	.87	10.64	36.08	609-1885-2-ND	2,000	277.50/M	SFW4R-3STE1LF
	6	0.465 (11.80)	0.197 (5.00)	609-1891-1-ND	.76	9.55	31.02	609-1891-2-ND	2,000	238.65/M	SFW6R-3STE1LF
	8	0.543 (13.80)	0.276 (7.00)	609-1895-1-ND	.95	11.82	39.92	609-1895-2-ND	2,000	315.15/M	SFW8R-3STE1LF
	14	0.780 (19.80)	0.512 (13.00)	609-1904-1-ND	1.15	15.86	53.35	609-1904-2-ND	2,000	418.18/M	SFW14R-3STE1LF
	16	0.858 (21.80)	0.591 (15.00)	609-1909-1-ND	1.13	13.87	46.22	609-1909-2-ND	2,000	353.59/M	SFW16R-3STE1LF
	22	1.094 (27.80)	0.827 (21.00)	609-1918-1-ND	1.36	18.34	62.87	609-1918-2-ND	2,000	506.49/M	SFW22R-3STE1LF
	26	1.252 (31.80)	0.984 (25.00)	609-1923-1-ND	1.12	15.35	51.62	609-1923-2-ND	2,000	404.55/M	SFW26R-3STE1LF
SFW Series — Side Entry SMT ZIF, Upper Contact Type With Cable Lock Mechanism											
8	4	0.386 (9.80)	0.118 (3.00)	609-1886-1-ND	.80	9.78	31.30	609-1886-2-ND	2,000	242.58/M	SFW4R-4STE1LF
	6	0.465 (11.80)	0.197 (5.00)	609-1892-1-ND	.79	9.94	32.31	609-1892-2-ND	2,000	248.55/M	SFW6R-4STE1LF
	8	0.543 (13.80)	0.276 (7.00)	609-1896-1-ND	.84	10.23	34.69	609-1896-2-ND	2,000	266.85/M	SFW8R-4STE1LF
	10	0.622 (15.80)	0.354 (9.00)	609-1899-1-ND	.87	10.93	37.05	609-1899-2-ND	2,000	285.00/M	SFW10R-4STE1LF
	16	0.858 (21.80)	0.591 (15.00)	609-1910-1-ND	1.13	13.87	46.22	609-1910-2-ND	2,000	353.59/M	SFW16R-4STE1LF
	20	1.016 (25.80)	0.748 (19.00)	609-1915-1-ND	1.03	13.04	42.39	609-1915-2-ND	2,000	326.10/M	SFW20R-4STE1LF

† Bulk

0.5mm Pitch Standard Length Jumper

Unshielded Flat Flex Cable

Specifications:

Electrical:

• **Voltage**: 30V • **Current:** 0.5A • **Physical**: Strip Length: 4.0mm (.157") • **Reinforcement Length:** 6.00mm (.236") • **Conductor Width:** 0.30mm (.012") • **Conductor Thickness:** 0.10 mm (.004") • **End Thickness:** 0.30 ±0.05mm (.012 ±.002") • **Temperature Range:** -40°C ~ 80°C

Reference Information:

• UL Style No. 2896 • Mates with any 0.50mm (.020") Pitch Molex FFC/FPC Connector

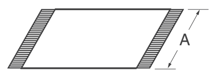

No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
1.18" (30mm) — RoHS Compliant							
6	3.5	WM14311-ND	4.65	3.89	2.85	2.42	21020-0051
10	5.5	WM14313-ND	4.66	3.89	2.86	2.42	21020-0095
20	10.5	WM14317-ND	5.70	4.75	3.49	2.95	21020-0205
24	12.5	WM14318-ND	4.45	3.71	2.72	2.31	21020-0249
30	15.5	WM14319-ND	5.70	4.75	3.48	2.96	21020-0315
36	18.5	WM14325-ND	5.69	4.75	3.48	2.95	21020-0381
40	20.5	WM14321-ND	5.70	4.75	3.48	2.96	21020-0425
50	25.5	WM14323-ND	5.70	4.75	3.49	2.96	21020-3050
2.00" (51mm) — RoHS Compliant							
6	3.5	WM10200-ND	4.14	3.45	2.54	2.14	21020-0053
10	5.5	WM10201-ND	4.14	3.46	2.53	2.15	21020-0097
20	10.5	WM10202-ND	4.30	3.59	2.63	2.23	21020-0207
24	12.5	WM10203-ND	4.35	3.63	2.66	2.25	21020-0251
30	15.5	WM10204-ND	4.40	3.67	2.69	2.28	21020-0317
36	18.5	WM10205-ND	4.46	3.72	2.73	2.30	21020-0383
40	20.5	WM10206-ND	4.50	3.75	2.76	2.33	21020-0427
50	25.5	WM10207-ND	4.65	3.88	2.84	2.42	21020-0543
3.00" (76mm) — RoHS Compliant							
6	3.5	WM10224-ND	4.66	3.88	2.85	2.41	21020-0055
8	4.5	WM10248-ND	4.66	3.88	2.85	2.42	21020-0077
10	5.5	WM10225-ND	4.66	3.88	2.85	2.41	21020-0099
12	6.5	WM10249-ND	4.65	3.88	2.85	2.41	21020-0121
14	7.5	WM10250-ND	4.66	3.88	2.85	2.42	21020-0143
16	8.5	WM10251-ND	4.66	3.89	2.86	2.42	21020-0165
20	10.5	WM10226-ND	4.65	3.88	2.85	2.41	21020-0209
24	12.5	WM10227-ND	4.65	3.88	2.85	2.41	21020-0253
30	15.5	WM10228-ND	4.65	3.89	2.85	2.42	21020-0319
36	18.5	WM10229-ND	4.65	3.89	2.85	2.42	21020-0385
40	20.5	WM10230-ND	4.66	3.88	2.84	2.41	21020-0429
50	25.5	WM10231-ND	4.66	3.89	2.86	2.42	21020-7650
4.00" (102mm)							
6	3.5	WM10208-ND◆	4.65	3.89	2.85	2.41	21020-0057
10	5.5	WM10209-ND◆	4.66	3.88	2.85	2.41	21020-0101
20	10.5	WM10210-ND◆	4.92	4.10	3.00	2.55	21020-0211
24	12.5	WM10211-ND◆	5.02	4.18	3.08	2.60	21020-0255
30	15.5	WM10212-ND◆	5.18	4.32	3.17	2.68	21020-0321
36	18.8	WM10213-ND	5.34	4.45	3.27	2.77	21020-0387
40	20.5	WM10214-ND◆	5.43	4.54	3.33	2.81	21020-0431
50	25.5	WM10215-ND◆	5.69	4.74	3.48	2.95	21020-0547
5.00" (127mm) — RoHS Compliant							
6	3.5	WM10232-ND	5.69	4.74	3.48	2.96	21020-0059
10	5.5	WM10233-ND	5.69	4.75	3.48	2.96	21020-0103
20	10.5	WM10234-ND	5.69	4.75	3.48	2.95	21020-0213
24	12.5	WM10235-ND	5.69	4.74	3.48	2.95	21020-0257
30	15.5	WM10236-ND	5.70	4.75	3.48	2.94	21020-0323
36	18.8	WM10237-ND	5.70	4.74	3.48	2.96	21020-0389
40	20.5	WM10238-ND	5.69	4.75	3.48	2.95	21020-0433
50	25.5	WM10239-ND	5.70	4.76	4.60	3.92	21020-2750
6.00" (152mm)							
6	3.5	WM10216-ND	5.69	4.75	3.48	2.95	21020-0061
10	5.5	WM10217-ND◆	5.70	4.74	3.49	2.95	21020-0105
20	10.5	WM10218-ND◆	5.69	4.74	3.49	2.95	21020-0215
24	12.5	WM10219-ND◆	5.96	4.96	3.65	3.09	21020-0259
30	15.5	WM10220-ND◆	6.20	5.19	3.79	3.22	21020-0325
36	18.5	WM10221-ND◆	6.37	5.31	3.90	3.30	21020-0391
40	20.5	WM10222-ND◆	6.48	5.39	3.96	3.35	21020-0435
50	25.5	WM10223-ND◆	6.72	5.61	4.10	3.49	21020-0548
8.00" (203mm) — RoHS Compliant							
6	3.5	WM10240-ND	5.69	4.75	3.48	2.95	21020-0065
10	5.5	WM10241-ND	5.69	4.75	3.48	2.95	21020-0109
20	10.5	WM10242-ND	5.70	4.74	3.49	2.96	21020-0219
24	12.5	WM10243-ND	5.95	4.95	3.64	3.08	21020-0263
30	15.5	WM10244-ND	6.21	5.19	3.80	3.21	21020-0329
36	18.5	WM10245-ND	6.37	5.30	3.90	3.29	21020-0395
40	20.5	WM10246-ND	6.48	5.39	3.97	3.36	21020-0439
50	25.5	WM10247-ND	6.73	5.61	4.11	3.49	21020-0574

◆ *RoHS Compliant*

0.3mm FPC Connectors

Specifications:

Electrical:

• **Voltage:** 50V • **Current:** 0.3A • **Contact Resistance:** 80mΩ maximum • **Withstanding Voltage:** 250V AC/1 minute • **Insulation Resistance:** 50MΩ minimum

Physical:

• **Housing Material:** Liquid Crystal Polymer • **Flammability:** UL94V-0 • **Color:** Beige • **Actuator:** PA Polyamide (Nylon) 4/6 • **Temperature Range:** -20°C ~ 85°C • **Contact:** Phosphor Bronze • **Plating Contact:** Tin/Bismuth • **Contact Position:** Bottom

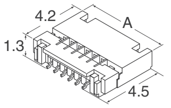

No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
Right Angle, SMT, ZIF — Bottom Contact Style							
11	5.8	WM1512-ND	1.60	1.23	.99	.89	54809-1198-C
15	7.0	WM1513-ND	2.20	1.69	1.36	1.22	54809-1598-C
19	8.2	WM1514-ND	2.80	2.16	1.73	1.55	54809-1998-C
21	8.8	WM1515-ND	3.05	2.35	1.88	1.69	54809-2198-C
25	10.0	WM1516-ND	3.17	2.44	1.95	1.76	54809-2598-C
27	10.6	WM1517-ND	3.40	2.62	2.09	1.89	54809-2798-C
31	11.8	WM1518-ND	3.89	3.00	2.40	2.16	54809-3198-C
33	12.4	WM1519-ND	4.04	3.12	2.49	2.24	54809-3398-C
39	14.2	WM1520-ND	4.14	3.19	2.56	2.30	54809-3998-C
45	16.0	WM1521-ND	5.64	4.34	3.48	3.13	54809-4598-C
51	17.8	WM1522-ND	6.39	4.92	3.94	3.54	54809-5198-C

0.5mm FFC/FPC Connectors

Specifications:

Electrical: • **Voltage:** 50V • **Current:** 0.4A (*Series 51374*); 0.5A (*Series 52746, 52437, 54132, 52745, 52435, 54104, 52559, 52892, 54548, 51441, 54550)* • **Contact Resistance:** 20mΩ maximum *(Series 52892, 52746, 52437, 54132, 52745, 52435, 54104, 52559)*; 40mΩ maximum *(Series 54548, 51441, 54550, 51374)*
• **Withstanding Voltage:** 250V AC/1 minute • **Insulation Resistance:** 50MΩ minimum

Physical: • **Housing Material:** PA Polyamide (Nylon) 4/6, *(Series 52746, 52437, 54132, 52745, 52435, 54104, 52559, 52892);* Liquid Crystal Polymer *(Series 54548, 54550);* Liquid Crystal Polymer Glass Filled *(Series 51441, 51374)* • **Flammability:** UL94V-0 • **Actuator:** Polyphenylene Sulfide, UL94V-0 • **Contact:** Phosphor Bronze (*Series 52746, 52437, 54132, 52745, 52435, 54104, 52559, 52892, 54548, 51441, 54550);* Copper Alloy (*Series 51374*) • **Plating:** Tin/Bismuth *(Series 52746, 52435, 52892, 54548, 51441, 51374);* Tin *(Series 52437, 54132, 52745, 54104, 52559, 54550)* • **Solder Tabs:** Phosphor Bronze, Tin over Nickel Plating (*Series 52746, 52437, 54132, 52745, 52435, 54104, 52559, 52892, 54548, 51441, 54550);* Copper Alloy, Tin over Nickel Plating (*Series 51374*) • **Temperature Range:** -20°C ~ 85°C (*Series 52746, 54132, 52745, 54548, 51441, 54550, 52435);* -25°C ~ 85°C (*Series 52892, 51374);* -40°C ~ 85°C (*Series 52437, 54104, 52559)*

Fig. 1

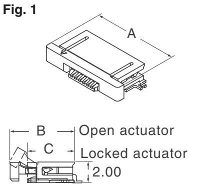

Fig. 2

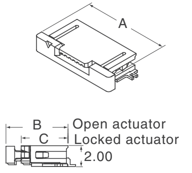

Fig. 3

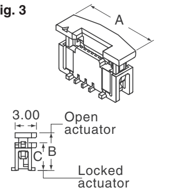

Fig. 4

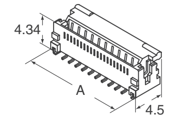

Fig. 5

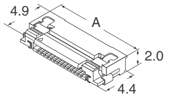

Fig. 6

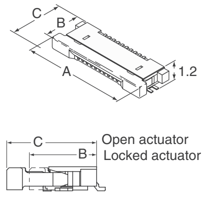

Fig. 7

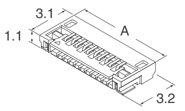

Fig. 8

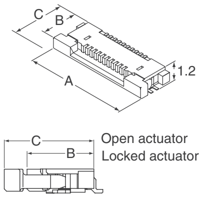

Fig.	No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Molex Part No.
Bottom Contact Style											
1	6	9.10	5.9	4.3	WM7700CT-ND	1.57	1.35	1.05	1,000	609.93	52746-0670
	10	11.10	5.9	4.3	WM7701CT-ND	2.20	1.89	1.47	1,000	856.28	52746-1070
	20	16.10	5.9	4.3	WM7702CT-ND	3.41	2.92	2.28	1,000	1324.47	52746-2070
	24	18.60	6.1	4.5	WM7703CT-ND	4.07	3.49	2.72	1,000	1582.68	52437-2472
	30	21.60	6.1	4.5	WM7704CT-ND	4.73	4.05	3.16	1,000	643.07	52437-3072
	36	23.50	6.55	5.0	WM7705CT-ND	3.12	2.68	2.09	1,500	1215.00/M	54132-3697
	40	25.50	6.55	5.0	WM7706CT-ND	3.92	3.36	2.62	1,500	1526.00/M	54132-4097
	50	30.50	6.55	5.0	WM7707CT-ND	4.67	4.00	3.12	1,500	1815.00/M	54132-5097

† For Tape and Reel Part Number, change CT-ND to TR-ND.

(Continued)

0.5mm FFC/FPC Connectors *(Cont.)*

Fig.	No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Molex Part No.
Top Contact Style											
2	6	9.10	5.7	4.3	WM7708CT-ND	1.06	.91	.71	1,000	413.30	52745-0696
	10	11.10	5.7	4.3	WM7709CT-ND	1.53	1.32	1.03	1,000	596.80	52745-1096
	20	16.10	5.7	4.3	WM7710CT-ND	2.26	1.94	1.51	1,000	879.27	52745-2096
	24	18.60	5.9	4.5	WM7711CT-ND	3.23	2.77	2.16	1,000	1255.96	52435-2472
	30	21.60	5.9	4.5	WM7712CT-ND	3.64	3.12	2.43	1,000	1415.24	52435-3072
	40	25.50	6.55	5.0	WM7713CT-ND	4.00	3.43	2.67	1,500	1557.00/M	54104-4096
	50	30.50	6.55	5.0	WM7714CT-ND	4.37	3.74	2.92	1,500	1699.00/M	54104-5096
Vertical Contact Style											
3	6	8.70	5.30	3.90	WM7715CT-ND	1.60	1.38	1.07	1,000	624.02	52559-0672
	10	10.70			WM7716CT-ND	1.98	1.70	1.33	1,000	771.68	52559-1072
	12	11.70			WM7952CT-ND	1.85	1.59	1.24	1,000	720.00	52559-1272
	20	15.70			WM7717CT-ND	3.31	2.84	2.21	1,000	1288.11	52559-2072
	24	17.70			WM7718CT-ND	3.97	3.40	2.65	1,000	1545.34	52259-2472
	30	20.70	5.30	3.90	WM7719CT-ND	4.82	4.13	3.22	1,000	1874.53	52559-3072
	36	23.70			WM7720CT-ND	5.30	4.54	3.54	1,000	2061.78	52559-3672
	40	25.70			WM7721CT-ND	5.42	4.64	3.62	1,000	2107.28	52559-4072

† For Tape and Reel Part Number, change CT-ND to TR-ND.

Fig.	No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Vertical, SMT, ZIF									
4	10	7.8	—	—	WM1649-ND	1.85	1.43	1.14	51374-1073-P
	13	9.3			WM1650-ND	2.39	1.84	1.48	51374-1373-P
	15	10.3			WM1651-ND	2.46	1.90	1.52	51374-1573-P
	20	12.8			WM1652-ND	2.21	1.71	1.37	51374-2073-P
	26	15.8			WM1653-ND	2.49	1.92	1.54	51374-2673-P
	30	17.8	—	—	WM1654-ND	2.86	2.20	1.76	51374-3073-P
	33	19.3			WM1655-ND	2.74	2.11	1.69	51374-3373-P
	40	22.8			WM1656-ND	3.61	2.78	2.23	51374-4073-P
	45	25.3			WM1657-ND	3.18	2.45	1.96	51374-4573-P
	50	27.8			WM1658-ND	4.09	3.15	2.52	51374-5073-P
	60	32.8			WM1659-ND	4.25	3.27	2.62	51374-6073-P
Right Angle, SMT, ZIF — Bottom Contact Style									
5	8	8.6	—	—	WM1523-ND	.99	.76	.61	52892-0895-C
	10	9.6			WM1524-ND	.99	.76	.61	52892-1095-C
	12	10.6			WM1525-ND	1.00	.77	.62	52892-1295-C
	14	11.6			WM1526-ND	1.16	.90	.72	52892-1495-C
	16	12.6			WM1527-ND	1.33	1.03	.83	52892-1695-C
	18	13.6	—	—	WM1528-ND	1.50	1.16	.93	52892-1895-C
	20	14.6			WM1529-ND	1.76	1.35	1.09	52892-2095-C
	24	16.6			WM1530-ND	1.90	1.47	1.18	52892-2495-C
	26	17.6			WM1531-ND	2.03	1.57	1.26	52892-2695-C
	28	18.6			WM1532-ND	2.16	1.67	1.33	52892-2895-C
6	6	8.2	3.4	4.55	WM1544-ND	1.35	1.04	.84	54548-0670-C
	8	9.2			WM1545-ND	1.59	1.23	.98	54548-0870-C
	10	10.2			WM1546-ND	1.90	1.46	1.17	54548-1070-C
	12	11.2			WM1547-ND	2.12	1.63	1.31	54548-1270-C
	16	13.2			WM1548-ND	2.57	1.98	1.59	54548-1670-C
	18	14.2	3.4	4.55	WM1549-ND	2.73	2.10	1.68	54548-1870-C
	20	15.2			WM1550-ND	2.94	2.27	1.81	54548-2070-C
	24	17.2			WM1551-ND	3.47	2.67	2.14	54548-2470-C
	26	18.2			WM1552-ND	2.89	2.23	1.78	54548-2670-C
7	6	5.3	—	—	WM1553-ND	2.04	1.57	1.26	51441-0693-C
	8	6.3			WM1554-ND	2.39	1.84	1.48	51441-0893-C
	10	7.3			WM1555-ND	2.50	1.93	1.54	51441-1093-C
	12	8.3			WM1556-ND	2.71	2.09	1.67	51441-1293-C
	16	10.3			WM1557-ND	3.17	2.44	1.95	51441-1693-C
	18	11.3	—	—	WM1558-ND	3.21	2.47	1.98	51441-1893-C
	20	12.3			WM1559-ND	3.08	2.37	1.90	51441-2093-C
	22	13.3			WM1560-ND	3.09	2.38	1.91	51441-2293-C
	24	14.3			WM1561-ND	3.39	2.61	2.09	51441-2493-C
Right Angle, SMT, ZIF — Top Contact Style									
8	6	8.2	3.4	4.55	WM1534-ND	1.36	1.05	.84	54550-0694-C
	8	9.2			WM1535-ND	1.59	1.23	.98	54550-0894-C
	10	10.2			WM1536-ND	1.90	1.47	1.17	54550-1094-C
	12	11.2			WM1537-ND	2.08	1.60	1.28	54550-1294-C
	14	12.2			WM1538-ND	2.40	1.85	1.48	54550-1494-C
	16	13.2	3.4	4.55	WM1539-ND	2.57	1.98	1.59	54550-1694-C
	18	14.2			WM1540-ND	2.73	2.10	1.69	54550-1894-C
	20	15.2			WM1541-ND	2.94	2.27	1.82	54550-2094-C
	24	17.2			WM1542-ND	3.47	2.67	2.14	54550-2494-C
	26	18.2			WM1543-ND	3.76	2.89	2.32	54550-2694-C

1mm FFC/FPC Connectors

Features:

Right Angle: For 0.30mm thick FFC/FPC. Metal solder tabs provide PCB hold-down and strain relief for SMT tails. • **Material:** 4/6 nylon, UL94V-0 • **Actuator:** PPS, UL94V-0 • **Contact:** Phosphor Bronze • **Plating:** Tin Solder • **Tabs:** Phosphor Bronze, Tin Plating • **Temperature**: -20°C ~ 85°C • **Electrical: Voltage:** 125V • **Current:** 1.0A • **Contact Resistance:** 20mΩ maximum • **Dielectric Withstanding Voltage:** 500V AC/1 minute

Vertical: For use with 0.30mm thick FFC/FPC. Tuning fork contacts assure stable, low contact resistance. Optional cable retention barbs provide cable strain relief and assure full retention of cable. Optional polarizing peg assures proper orientation to PCB and kinked outer solder tails offer PCB retention. SMT compatible. • **Material:** Housing 4/6 nylon, UL94V-0 • **Actuator:** LCP, UL94V-0 • **Contact:** Phosphor Bronze Alloy • **Plating:** Tin/Lead, 90/10 • **Temperature**: -20°C ~ 80°C • **Electrical: Voltage:** 125V • **Current:** 1.0A • **Contact Resistance:** 20mΩ maximum • **Dielectric Withstanding Voltage:** 500VAC per minute • **Insulation Resistance:** 100MΩ minimum

Fig. 1

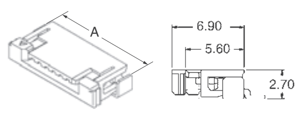

Fig. 2

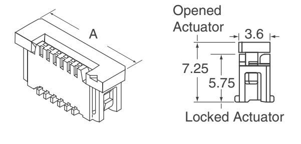

Fig. 3

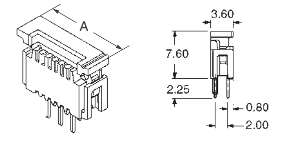

Fig. 4

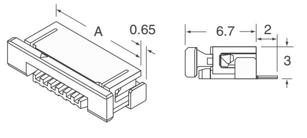

Fig.	No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 1,000	Molex Part No.
Right Angle, SMT, ZIF — Top Contact Style — RoHS Compliant									
1	4	.405 (10.30)	WM7675CT-ND	1.31	1.13	.88	WM7675TR-ND	510.49	52207-0485
	6	.484 (12.30)	WM7676CT-ND	1.11	.95	.74	WM7676TR-ND	431.34	52207-0685
	8	.562 (14.30)	WM7677CT-ND	1.45	1.25	.97	WM7677TR-ND	564.43	52207-0885
	10	.641 (16.30)	WM7678CT-ND	1.78	1.53	1.19	WM7678TR-ND	692.00	52207-1085
	12	.720 (18.30)	WM7679CT-ND	2.09	1.79	1.40	WM7679TR-ND	811.00	52207-1285
	14	.799 (20.30)	WM7680CT-ND	2.37	2.03	1.59	WM7680TR-ND	921.81	52207-1485
	16	.877 (22.30)	WM7681CT-ND	2.63	2.26	1.76	WM7681TR-ND	1024.00	52207-1685
	18	.956 (24.30)	WM7682CT-ND	2.89	2.48	1.93	WM7682TR-ND	1123.15	52207-1885
	20	1.035 (26.30)	WM7683CT-ND	3.12	2.67	2.09	WM7683TR-ND	1213.68	52207-2085
	22	1.114 (28.30)	WM7684CT-ND	3.34	2.86	2.23	WM7684TR-ND	1299.01	52207-2285
	24	1.192 (30.30)	WM7685CT-ND	3.53	3.02	2.36	WM7685TR-ND	1372.70	55207-2485
	26	1.271 (32.30)	WM7686CT-ND	3.71	3.18	2.48	WM7686TR-ND	1443.44	52207-2685
	28	1.350 (34.30)	WM7687CT-ND	3.90	3.34	2.61	WM7687TR-ND	1517.00	52207-2885
	30	1.430 (36.30)	WM7688CT-ND	4.09	3.50	2.73	WM7688TR-ND	1590.86	52207-3085
Vertical, SMT, ZIF — RoHS Compliant									
2	6	.496 (12.60)	WM7633CT-ND	2.13	1.82	1.42	WM7633TR-ND	827.00	52610-0671
	8	.575 (14.60)	WM7634CT-ND	2.54	2.18	1.70	WM7634TR-ND	989.00	52610-0871
	10	.654 (16.60)	WM7635CT-ND	2.92	2.51	1.95	WM7635TR-ND	1137.00	52610-1071
	12	.732 (18.60)	WM7636CT-ND	3.35	2.87	2.24	WM7636TR-ND	1302.00	52610-1271
	14	.811 (20.60)	WM7637CT-ND	3.72	3.19	2.49	WM7637TR-ND	1448.00	52610-1471
	16	.890 (22.60)	WM7638CT-ND	4.04	3.46	2.70	WM7638TR-ND	1572.00	52610-1671
	18	.969 (24.60)	WM7639CT-ND	4.32	3.70	2.88	WM7639TR-ND	1680.00	52610-1871
	20	1.047 (26.60)	WM7640CT-ND	4.56	3.91	3.05	WM7640TR-ND	1774.00	52610-2071
	22	1.126 (28.60)	WM7641CT-ND	4.91	4.20	3.28	WM7641TR-ND	1909.00	52610-2271
	24	1.205 (30.60)	WM7642CT-ND	5.23	4.48	3.49	WM7642TR-ND	2034.00	52610-2471
	26	1.283 (32.60)	WM7643CT-ND	3.74	3.21	2.50	WM7643TR-ND	1455.00	52610-2671
	28	1.362 (34.60)	WM7644CT-ND	5.70	4.88	3.81	WM7644TR-ND	2217.00	52610-2871
	30	1.441 (36.60)	WM7645CT-ND	5.83	5.00	3.89	WM7645TR-ND	2269.00	52610-3071
Vertical, ZIF — No Pegs									
3	4	.366 (9.30)	WM5300-ND◆	1.88	1.53	1.18	—	—	71226-0425
	6	.445 (11.30)	WM5301-ND◆	2.25	1.83	1.41	—	—	71226-0625
	8	.524 (13.30)	WM5302-ND◆	2.62	2.13	1.64	—	—	71226-0825
	10	.602 (15.30)	WM5303-ND◆	2.99	2.43	1.87	—	—	71226-1025
	12	.681 (17.30)	WM5304-ND◆	3.38	2.75	2.12	—	—	71226-1225
	14	.760 (19.30)	WM5305-ND◆	3.74	3.05	2.34	—	—	71226-1425
	16	.839 (21.30)	WM5306-ND◆	4.11	3.35	2.58	—	—	71226-1625
	18	.917 (23.30)	WM5307-ND◆	4.49	3.65	2.81	—	—	71226-1825
	20	.996 (25.30)	WM5308-ND◆	4.86	3.96	3.04	—	—	71226-2025
	22	1.075 (27.30)	WM5309-ND◆	5.23	4.26	3.28	—	—	71226-2225
	24	1.154 (29.30)	WM5310-ND	5.60	4.56	3.51	—	—	71226-2425
	26	1.232 (31.30)	WM5311-ND◆	5.98	4.86	3.74	—	—	71226-2625
	28	1.311 (33.30)	WM5312-ND◆	6.36	5.17	3.98	—	—	71226-2825
	30	1.390 (35.30)	WM5313-ND	6.74	5.48	4.22	—	—	71226-3025
Right Angle, SMT, ZIF — RoHS Compliant									
4	4	.354 (9.00)	WM7937CT-ND	1.65	1.42	1.11	WM7937TR-ND	643.00	52271-0469
	7	.472 (12.00)	WM7938CT-ND	.73	.62	.49	WM7938TR-ND	282.00	52271-0769
	8	.512 (13.00)	WM7939CT-ND	.97	.84	.65	WM7939TR-ND	378.00	52271-0869
	10	.591 (15.00)	WM7940CT-ND	1.24	1.07	.83	WM7940TR-ND	482.00	52271-1069
	12	.669 (17.00)	WM7941CT-ND	1.05	.90	.70	WM7941TR-ND	408.00	52271-1269
	14	.748 (19.00)	WM7942CT-ND	1.10	.95	.74	WM7942TR-ND	428.00	52271-1469
	15	.787 (20.00)	WM7943CT-ND	1.29	1.11	.87	WM7943TR-ND	502.00	52271-1569
	16	.827 (21.00)	WM7944CT-ND	1.13	.97	.76	WM7944TR-ND	440.00	52271-1669
	18	.906 (23.00)	WM7945CT-ND	1.21	1.04	.81	WM7945TR-ND	470.00	52271-1869
	20	.984 (25.00)	WM7946CT-ND	1.40	1.20	.94	WM7946TR-ND	545.00	52271-2069
	22	1.063 (27.00)	WM7947CT-ND	1.45	1.25	.97	WM7947TR-ND	564.00	52271-2269
	28	1.299 (33.00)	WM7950CT-ND	1.64	1.41	1.10	WM7950TR-ND	638.00	52271-2869
	30	1.378 (35.00)	WM7951CT-ND	1.89	1.62	1.27	WM7951TR-ND	736.00	52271-3069

◆ *RoHS Compliant*

1.0 mm (.039”) Pitch Standard Length Jumpers

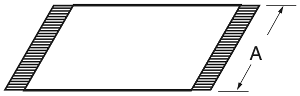

Features and Specifications: Molex introduces a complete line of 1.00 (.039”) pitch Flat Flex Cable jumpers. These jumpers are used to connect 2 PC boards and terminate to either ZIF or Non-ZIF FFC Connectors **Reference Information:** UL Style No.: 2896. Mates with: Any 1.00mm (.039”) Pitch Molex FFC/FPC Connector. Designed in: Millimeters **Electrical:** Voltage: 30V, Current: 1.3A **Physical:** Strip Length: 4.0mm (.157”). Reinforcement Length: 8.00mm (.315”). Conductor Width: 0.70mm (.028”). Conductor Thickness: 0.10mm (.004”). End Thickness: 0.30±0.05mm (.012±.002”). Temperature: -40°C ~ 80° C • Contacts on same side

No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each				Molex Part No.
			1	10	100	250	
2” (5.08cm) Unshielded Flat Flex Cable							
6	7.15	WM10000-ND◆	3.00	2.51	1.84	1.56	21039-0203
8	9.15	WM10001-ND◆	3.09	2.58	1.89	1.60	21039-0225
10	11.15	WM10002-ND	3.18	2.65	1.95	1.65	21039-0247
12	13.15	WM10003-ND◆	3.28	2.74	2.01	1.70	21039-0269
14	15.15	WM10004-ND◆	3.36	2.81	2.06	1.75	21039-0291
16	17.15	WM10005-ND◆	3.46	2.89	2.12	1.80	21039-0313
18	19.15	WM10006-ND◆	3.58	2.99	2.19	1.86	21039-0335
20	21.15	WM10007-ND◆	3.72	3.11	2.28	1.93	21039-0357
22	23.15	WM10008-ND	3.76	3.14	2.30	1.95	21039-0379
24	25.15	WM10009-ND◆	3.97	3.31	2.43	2.06	21039-0401
26	27.15	WM10010-ND◆	4.00	3.34	2.45	2.08	21039-0423
28	29.15	WM10011-ND◆	4.03	3.36	2.47	2.09	21039-0445
30	31.15	WM10012-ND◆	4.06	3.39	2.49	2.11	21039-0467
3” (7.62cm) Unshielded Flat Flex Cable							
6	7.15	WM10013-ND◆	2.94	2.45	1.80	1.52	21039-0205
8	9.15	WM10014-ND◆	3.05	2.55	1.87	1.59	21039-0227
10	11.15	WM10015-ND◆	3.17	2.65	1.94	1.65	21039-0249
12	13.15	WM10016-ND	3.31	2.76	2.03	1.72	21039-0271
14	15.15	WM10017-ND◆	3.41	2.85	2.09	1.77	21039-0293
16	17.15	WM10018-ND◆	3.53	2.95	2.16	1.83	21039-0315
18	19.15	WM10019-ND	3.69	3.08	2.26	1.91	21039-0337
20	21.15	WM10020-ND◆	3.89	3.24	2.38	2.02	21039-0359
22	23.15	WM10021-ND	3.93	3.28	2.41	2.04	21039-0381
24	25.15	WM10022-ND◆	4.21	3.51	2.58	2.18	21039-0403
26	27.15	WM10023-ND	4.25	3.55	2.60	2.21	21039-0425
30	31.15	WM10025-ND◆	4.33	3.61	2.65	2.25	21039-0469
4” (10.16cm) Unshielded Flat Flex Cable							
6	7.15	WM10026-ND◆	2.82	2.35	1.73	1.46	21039-0207
8	9.15	WM10027-ND◆	2.96	2.47	1.81	1.53	21039-0229
10	11.15	WM10028-ND◆	3.09	2.58	1.89	1.61	21039-0251
12	13.15	WM10029-ND◆	3.25	2.71	1.99	1.69	21039-0273
14	15.15	WM10030-ND◆	3.39	2.83	2.08	1.76	21039-0295
16	17.15	WM10031-ND◆	3.53	2.95	2.16	1.83	21039-0317
18	19.15	WM10032-ND◆	3.72	3.10	2.28	1.93	21039-0339
20	21.15	WM10033-ND◆	3.95	3.30	2.42	2.05	21039-0361
22	23.15	WM10034-ND◆	4.00	3.33	2.45	2.07	21039-0383
24	25.15	WM10035-ND◆	4.33	3.61	2.65	2.25	21039-0405
26	27.15	WM10036-ND	4.38	3.65	2.68	2.27	21039-0427
28	29.15	WM10037-ND	4.43	3.70	2.71	2.30	21039-0449
30	31.15	WM10038-ND◆	4.47	3.73	2.74	2.32	21039-0471
5” (12.70cm) Unshielded Flat Flex Cable							
6	7.15	WM10039-ND◆	2.80	2.34	1.72	1.46	21039-0209
8	9.15	WM10040-ND◆	2.96	2.47	1.81	1.53	21039-0231
10	11.15	WM10041-ND◆	3.11	2.60	1.91	1.62	21039-0253
12	13.15	WM10042-ND◆	3.30	2.75	2.02	1.71	21039-0275
14	15.15	WM10043-ND◆	3.45	2.88	2.12	1.79	21039-0297
16	17.15	WM10044-ND◆	3.62	3.02	2.22	1.88	21039-0319
18	19.15	WM10045-ND◆	3.83	3.20	2.35	1.99	21039-0341
20	21.15	WM10046-ND◆	4.11	3.43	2.52	2.13	21039-0363
22	23.15	WM10047-ND◆	4.17	3.48	2.55	2.16	21039-0385
24	25.15	WM10048-ND	4.56	3.80	2.79	2.37	21039-0407
26	27.15	WM10049-ND	4.61	3.85	2.82	2.39	21039-0429
28	29.15	WM10050-ND◆	4.67	3.90	2.86	2.42	21039-0451
30	31.15	WM10051-ND	4.72	3.94	2.89	2.45	21039-0473
6” (15.24cm) Unshielded Flat Flex Cable							
6	7.15	WM10052-ND◆	2.88	2.40	1.76	1.49	21039-0211
8	9.15	WM10053-ND◆	3.06	2.55	1.87	1.59	21039-0233
10	11.15	WM10054-ND◆	3.24	2.70	1.98	1.68	21039-0255
12	13.15	WM10055-ND◆	3.45	2.88	2.12	1.79	21039-0277
14	15.15	WM10056-ND◆	3.63	3.03	2.22	1.88	21039-0299
16	17.15	WM10057-ND◆	3.83	3.19	2.34	1.99	21039-0321
18	19.15	WM10058-ND	4.08	3.40	2.50	2.11	21039-0343
20	21.15	WM10059-ND◆	4.40	3.67	2.69	2.28	21039-0365
22	23.15	WM10060-ND	4.46	3.72	2.73	2.32	21039-0387
24	25.15	WM10061-ND◆	4.91	4.10	3.01	2.55	21039-0409
26	27.15	WM10062-ND	4.98	4.15	3.05	2.58	21039-0431
28	29.15	WM10063-ND◆	5.04	4.21	3.09	2.62	21039-0453
30	31.15	WM10064-ND◆	5.11	4.26	3.13	2.65	21039-0475
8” (20.32cm) Unshielded Flat Flex Cable							
6	7.15	WM10065-ND◆	3.05	2.54	1.87	1.58	21039-0215
8	9.15	WM10066-ND	3.28	2.73	2.01	1.70	21039-0237
10	11.15	WM10067-ND◆	3.49	2.91	2.14	1.81	21039-0259
12	13.15	WM10068-ND◆	3.78	3.15	2.32	1.96	21039-0281
14	15.15	WM10069-ND◆	4.00	3.33	2.45	2.07	21039-0303
16	17.15	WM10070-ND◆	4.25	3.55	2.60	2.21	21039-0325
18	19.15	WM10071-ND	4.57	3.81	2.80	2.37	21039-0347
20	21.15	WM10072-ND◆	4.98	4.15	3.05	2.58	21039-0369
22	23.15	WM10073-ND◆	5.06	4.23	3.10	2.63	21039-0391
24	25.15	WM10074-ND	5.65	4.71	3.46	2.93	21039-0413
26	27.15	WM10075-ND	5.72	4.77	3.50	2.97	21039-0435
28	29.15	WM10076-ND	5.80	4.84	3.55	3.01	21039-0457
30	31.15	WM10077-ND	5.88	4.91	3.60	3.05	21039-0479
10” (25.40cm) Unshielded Flat Flex Cable							
6	7.15	WM10078-ND◆	3.24	2.71	1.99	1.68	21039-0219
8	9.15	WM10079-ND◆	3.52	2.94	2.16	1.83	21039-0241
10	11.15	WM10080-ND	3.79	3.16	2.32	1.97	21039-0263
12	13.15	WM10081-ND	4.13	3.44	2.53	2.14	21039-0285
14	15.15	WM10082-ND◆	4.40	3.67	2.69	2.28	21039-0307
16	17.15	WM10083-ND◆	4.70	3.93	2.88	2.44	21039-0329
18	19.15	WM10084-ND	5.08	4.24	3.11	2.64	21039-0351
20	21.15	WM10085-ND	5.59	4.66	3.42	2.90	21039-0373
22	23.15	WM10086-ND	5.69	4.74	3.48	2.95	21039-0395
24	25.15	WM10087-ND	6.40	5.34	3.92	3.32	21039-0417
26	27.15	WM10088-ND	6.50	5.42	3.98	3.37	21039-0439
28	29.15	WM10089-ND	6.59	5.50	4.03	3.42	21039-0461
30	31.15	WM10090-ND	6.69	5.58	4.09	3.47	21039-0483
12” (30.48cm) Unshielded Flat Flex Cable							
6	7.15	WM10091-ND◆	3.45	2.88	2.11	1.79	21039-0221
8	9.15	WM10092-ND◆	3.76	3.14	2.30	1.95	21039-0243
10	11.15	WM10093-ND◆	4.08	3.40	2.50	2.11	21039-0265
12	13.15	WM10094-ND◆	4.47	3.73	2.74	2.32	21039-0287
14	15.15	WM10095-ND◆	4.80	4.00	2.94	2.49	21039-0309
16	17.15	WM10096-ND◆	5.16	4.30	3.16	2.68	21039-0331
18	19.15	WM10097-ND◆	5.61	4.68	3.44	2.91	21039-0353
20	21.15	WM10098-ND	6.20	5.18	3.80	3.22	21039-0375
24	25.15	WM10100-ND	7.17	5.98	4.39	3.72	21039-0419
26	27.15	WM10101-ND	7.28	6.07	4.45	3.77	21039-0441
28	29.15	WM10102-ND	7.38	6.16	4.52	3.83	21039-0463
30	31.15	WM10103-ND◆	7.50	6.26	4.59	3.89	21039-0485

◆ RoHS Compliant

0.3 mm Pitch One-Touch FFC/FPC Connectors

Features: 0.3mm pitch low profile connector for FPC, compatible to most advanced information communication devices light in weight and small in size such as mobile PC, PDA, Liquid Crystal Display and mobile phones.

FB3 Series: Specifications: • Contact Resistance: 20mΩ maximum • Withstanding Voltage: AC250Vr.m.s. per 1 minute • Operating Temperature: -40°C ~ 85°C • Rated Voltage: AC, DC 50V per terminal • Rated Current: AC, DC 0.35A per terminal • Insulation Resistance: 100MΩ minimum • Applicable FPC: 0.3mm pitch zigzag thickness 0.2 ~ +/-0.03 with lining **Materials:** • Actuator: Synthetic resin, UL94V-0 • Base Insulator: Synthetic resin, UL94V-0 • Contact: Copper Alloy, Gold plating over Nickel on contact area

FB6 Series: **Specifications:** • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250VDC per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.35A per position • Rated Voltage: AC, DC 50V per position • Insulation Resistance: 100MΩ minimum • Applicable FPC: 0.3mm pitch thickness 0.15±0.03 with lining **Materials:** • Actuator: Synthetic resin, UL94V-0 • Base Insulator: Synthetic resin, UL94V-0 • Contact: Copper Alloy, Gold plating on contact area

FB8 Series: **Specifications:** • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250VDC per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.35A per position • Rated Voltage: AC, DC 50V per position • Insulation Resistance: 100MΩ minimum • Applicable FPC: 0.3mm pitch thickness 0.2±0.03 with lining **Materials:** • Actuator: Synthetic resin, UL94V-0 • Base Insulator: Synthetic resin, UL94V-0 • Contact: Copper Alloy, Gold plating on contact area

Fig. 1

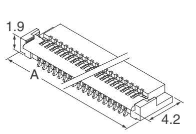

Fig. 2

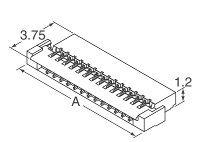

Fig. 3

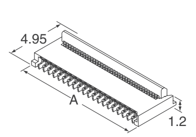

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each			JAE Part No.
				1	25	100	
FB3 Series							
1	25	10.5	670-1482-ND	9.50	6.27	5.70	FB3S025C11
	45	16.5	670-1483-ND	12.49	8.88	8.05	FB3S045C11
	61	21.3	670-1484-ND	4.95	3.24	2.88	FB3S061C11
FB6 Series							
2	15	6.9	670-1485-ND	2.79	1.73	1.59	FB6S015JA1
	17	7.5	670-1486-ND	2.97	1.84	1.69	FB6S017JA1
	21	8.7	670-1487-ND	2.83	1.86	1.65	FB6S021JA1
	25	9.9	670-1488-ND	3.00	1.97	1.75	FB6S025JA1
	27	10.5	670-1489-ND	3.19	2.09	1.86	FB6S027JA1
	29	11.1	670-1490-ND	3.30	2.16	1.92	FB6S029JA1
	33	12.3	670-1491-ND	3.63	2.38	2.12	FB6S033JA1
2	39	14.1	670-1492-ND	11.05	7.30	6.63	FB6S039JA1
	45	15.9	670-1493-ND	3.96	2.60	2.31	FB6S045JA1
	51	17.7	670-1494-ND	4.35	2.85	2.53	FB6S051JA1
	53	18.3	670-1495-ND	4.32	2.83	2.52	FB6S053JA1
	57	19.5	670-1496-ND	12.71	9.04	8.20	FB6S057JA1
	59	20.1	670-1497-ND	4.40	2.88	2.56	FB6S059JA1
FB8 Series							
3	23	8.2	670-1498-ND	3.19	2.09	1.86	FB8S023JA1
	29	10.0	670-1499-ND	10.20	6.74	6.12	FB8S029JA1
	31	10.6	670-1500-ND	4.04	2.65	2.36	FB8S031JA1
	33	11.2	670-1501-ND	4.26	2.79	2.48	FB8S033JA1
	39	13.0	670-1502-ND	5.12	3.35	2.98	FB8S039JA1

HIROSE ELECTRIC CO.,LTD.

FX12 Connectors with Dual Shields - 0.4mm Pitch

Specifications:

• **Current Rating:** 0.3A • **Voltage Rating:** 30VAC • **Operating Temperature:** -55°C ~ 85°C • **Insulation Resistance:** 50MΩ @ 100VDC • **Withstanding Voltage:** No flashover or insulation breakdown @ 100VAC one minute • **Contact Resistance:** 100mΩ Maximum @ 100mA

Plug

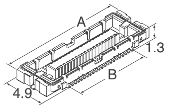

Receptacle

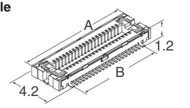

Materials:

- **Insulator:** Polyamide, Black Finish, UL94V-0
- **Contacts:** Phosphor Bronze, Gold Plated Finish
- **Ground Plates:** Phosphor Bronze, Gold Plated
- **Metal Fittings:** Phosphor Bronze, Tin-Copper plated

No. of Contacts	Dim. (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R▲ Pricing 3,000	Hirose Part No.
Plugs								
24	10.6	4.4	H11405CT-ND	1.63	1.34	1.08	559.00/M	FX12B-24P-0.4SV
40	13.8	7.6	H11407CT-ND	1.66	1.38	1.15	650.00/M	FX12B-40P-0.4SV
60	17.79	11.6	H11409CT-ND	2.28	1.89	1.58	893.00/M	FX12B-60P-0.4SV
Receptacles								
24	8.1	4.4	H11406CT-ND	1.63	1.34	1.08	559.00/M	FX12B-24S-0.4SV
40	11.3	7.6	H11408CT-ND	1.66	1.38	1.15	650.00/M	FX12B-40S-0.4SV
60	15.34	11.6	H11410CT-ND	2.18	1.81	1.51	854.00/M	FX12B-60S-0.4SV

▲ For Tape and Reel part number, change CT-ND to TR-ND

DF30 Surface Mount Connectors - 0.4mm Pitch

Applications: • Cellular Phones • PDAs • Mobile Computers • Digital Cameras • Digital Video Cameras • Devices demanding high reliability connections in extremely limited spaces

Specifications: • Operating Temperature Range: -35°C ~ 85°C • Voltage Rating: 30VAC • Current Rating: 0.3A

Electrical Characteristics: • Contact Resistance: 100mΩ maximum • Insulation Resistance: 50MΩ minimum

Mechanical Characteristics: • Mechanical Operation: 50 times insertions and extractions

Materials: • Insulator: LCP, Black Finish, UL94V-0 • Contacts: Phosphor Bronze, Gold Plated Finish • Metal Fittings: • Phosphor Bronze, Tin-Copper plated Finish

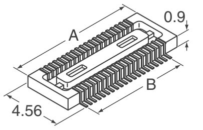

No. of Contacts	Dim. (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R▲ Pricing 1,000	Hirose Part No.
Receptacles								
20	6.22	3.6	H3859CT-ND	1.63	1.34	1.08	572.00	DF30FC-20DS-0.4V(82)
24	7.02	4.4	H3860CT-ND	1.67	1.37	1.10	585.00	DF30FC-24DS-0.4V(82)
30	8.22	5.6	H3861CT-ND	1.82	1.49	1.20	638.00	DF30FC-30DS-0.4V(82)
34	9.02	6.4	H3862CT-ND	1.63	1.35	1.13	665.00	DF30FC-34DS-0.4V(82)
40	10.22	7.6	H3855CT-ND	1.85	1.54	1.29	758.00	DF30FC-40DS-0.4V(82)
50	12.22	9.6	H3863CT-ND	2.18	1.81	1.51	891.00	DF30FC-50DS-0.4V(82)
60	14.22	11.6	H3857CT-ND	2.44	2.03	1.69	998.00	DF30FC-60DS-0.4V(82)
Headers								
20	5.14	3.6	H3864CT-ND	1.75	1.43	1.15	612.00	DF30FC-20DP-0.4V(82)
24	5.94	4.4	H3865CT-ND	1.86	1.52	1.23	652.00	DF30FC-24DP-0.4V(82)
30	7.14	5.6	H3866CT-ND	1.72	1.44	1.20	705.00	DF30FC-30DP-0.4V(82)
34	7.94	6.4	H3867CT-ND	1.82	1.52	1.26	745.00	DF30FC-34DP-0.4V(82)
40	9.14	7.6	H3856CT-ND	1.95	1.62	1.35	798.00	DF30FC-40DP-0.4V(82)
50	11.14	9.6	H3868CT-ND	2.34	1.95	1.62	958.00	DF30FC-50DP-0.4V(82)
60	13.14	11.6	H3858CT-ND	2.57	2.14	1.78	1051.00	DF30FC-60DP-0.4V(82)

▲ For Tape and Reel part number, change CT-ND to TR-ND

DF12 Surface Mount Connectors - 0.5mm Pitch

Dim. in mm

Features:

• Connectors furnished with reinforcement fittings to prevent peeling of the solder joints (due to mechanical stress) are also available and these can be mounted to FPC with confidence • A specification with convenient guide posts for manual work is available as well as one without guide posts for automatic mounting

Specifications:

• Current Capacity: 0.3A/pin • Rated Voltage: 50VAC/pin • Insulation Resistance: 100VDC, 500MΩ minimum • Withstand Voltage: 1 minute at rated value, 150VAC • Contact Resistance: 100mA DC, 50mΩ maximum

Material (receptacle/header):

• Insulation: Heat-resistant resin, beige (natural), UL94V-0 • Contacts: Phosphor copper with gold plating • Fittings: Brass finish with tin-lead plating

Fig. 1

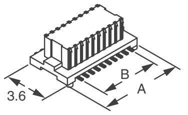

Fig. 2

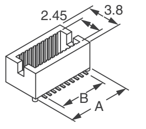

Fig. 3

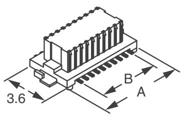

Fig. 4

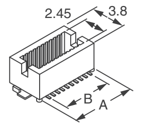

Fig.	No. of Contacts	Description	Dimension (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R▲ Pricing 1,000	Hirose Part No.
Receptacles										
3.0mm Stacking Height — RoHS Compliant										
1	32	With Guide Posts	10.1	7.5	H5202CT-ND	1.98	1.53	1.22	811.00	DF12A(3.0)-32DS-0.5V(81)
	50		14.6	12.0	H2736-ND	2.11	1.63	1.30	—	DF12A(3.0)-50DS-0.5V(80)
	50		14.6	12.0	H5203CT-ND	2.80	2.15	1.72	1144.00	DF12A(3.0)-50DS-0.5V(81)
	60		17.1	14.5	H5204CT-ND	2.90	2.25	1.80	1300.00	DF12A(3.0)-60DS-0.5V(81)
3.0mm Stacking Height										
3	32	With Guide Posts and Reinforced Fittings	11.0	7.5	H5205CT-ND◆	1.52	1.10	.90	532.00	DF12(3.0)-32DS-0.5V(86)
	50		15.5	12.0	H1509-ND	2.11	1.63	1.30	—	DF12(3.0)-50DS-0.5V(80)
	50		15.5	12.0	H5206CT-ND◆	1.92	1.48	1.18	785.00	DF12(3.0)-50DS-0.5V(86)
	60		18.0	14.5	H5207CT-ND◆	2.11	1.63	1.30	865.00	DF12(3.0)-60DS-0.5V(86)
	80		23.0	19.5	H5208CT-ND◆	2.96	2.28	1.82	1210.00	DF12(3.0)-80DS-0.5V(86)
3.5 to 5.0mm Stacking Height										
1	20	With Guide Posts	7.1	4.5	H5209CT-ND◆	1.71	1.24	1.02	599.00	DF12A-20DS-0.5V(81)
	30		9.6	7.0	H5210CT-ND◆	1.92	1.48	1.18	785.00	DF12A-30DS-0.5V(81)
	36		11.1	8.5	H5211CT-ND◆	2.21	1.70	1.36	904.00	DF12A-36DS-0.5V(81)
	40		12.1	9.5	H5212CT-ND◆	2.28	1.75	1.40	931.00	DF12A-40DS-0.5V(81)
	50		14.6	12.0	H5213CT-ND◆	2.86	2.20	1.76	1170.00	DF12A-50DS-0.5V(81)
3	20	With Guide Posts and Reinforced Fittings	8.0	4.5	H5214CT-ND◆	1.06	.77	.63	372.00	DF12-20DS-0.5V(86)
	30		10.5	7.0	H2746-ND	1.66	1.28	1.02	—	DF12-30DS-0.5V(80)
	30		10.5	7.0	H5215CT-ND◆	1.44	1.05	.86	505.00	DF12-30DS-0.5V(86)
	30		9.6	7.0	H5201CT-ND	1.89	1.46	1.17	773.00	DF12-30DS-0.5V(81)
3	36	With Guide Posts and Reinforced Fittings	12.0	8.5	H5216CT-ND◆	1.86	1.35	1.11	652.00	DF12-36DS-0.5V(86)
	40		13.0	9.5	H5217CT-ND◆	1.71	1.24	1.02	599.00	DF12-40DS-0.5V(86)
	50		15.5	12.0	H5218CT-ND◆	1.92	1.48	1.18	785.00	DF12-50DS-0.5V(86)
	60		18.0	14.5	H5001CT-ND◆	2.11	1.63	1.30	865.00	DF12-60DS-0.5V(86)
Headers — RoHS Compliant										
3.0mm Stacking Height										
2	32	With Guide Posts	10.2	7.5	H5219CT-ND	2.02	1.55	1.24	825.00	DF12D(3.0)-32DP-0.5V(81)
	50		14.7	12.0	H5220CT-ND	2.86	2.20	1.76	1170.00	DF12D(3.0)-50DP-0.5V(81)
	60		17.2	14.5	H5221CT-ND	2.99	2.32	1.86	1339.00	DF12D(3.0)-60DP-0.5V(81)
4	32	With Guide Posts and Reinforced Fittings	11.0	7.5	H5222CT-ND	1.52	1.10	.90	532.00	DF12(3.0)-32DP-0.5V(86)
	50		15.5	12.0	H5223CT-ND	1.92	1.48	1.18	785.00	DF12(3.0)-50DP-0.5V(86)
	60		18.0	14.5	H5224CT-ND	2.05	1.58	1.26	838.00	DF12(3.0)-60DP-0.5V(86)
	80		23.0	19.5	H5225CT-ND	2.93	2.25	1.80	1197.00	DF12(3.0)-80DP-0.5V(86)
3.5mm Stacking Height										
2	20	With Guide Posts	7.2	4.5	H5226CT-ND	1.56	1.13	.93	545.00	DF12D(3.5)-20DP-0.5V(81)
	36		11.2	8.5	H5227CT-ND	2.21	1.70	1.36	904.00	DF12D(3.5)-36DP-0.5V(81)
	40		12.2	9.5	H5228CT-ND	2.28	1.75	1.40	931.00	DF12D(3.5)-40DP-0.5V(81)
	50		14.7	12.0	H5229CT-ND	2.83	2.18	1.74	1157.00	DF12D(3.5)-50DP-0.5V(81)
4	20	With Guide Posts and Reinforced Fittings	8.0	4.5	H5230CT-ND	1.18	.86	.70	412.00	DF12(3.5)-20DP-0.5V(86)
	36		12.0	8.5	H5231CT-ND	1.63	1.25	1.00	665.00	DF12(3.5)-36DP-0.5V(86)
	40		13.0	9.5	H5232CT-ND	1.79	1.30	1.06	625.00	DF12(3.5)-40DP-0.5V(86)
	50		15.5	12.0	H5233CT-ND	1.98	1.53	1.22	811.00	DF12(3.5)-50DP-0.5V(86)
4.0mm Stacking Height										
2	30	With Guide Posts	9.7	7.0	H2764-ND	1.82	1.32	1.08	—	DF12D(4.0)-30DP-0.5V(80)
	30		9.7	7.0	H5234CT-ND	1.92	1.48	1.18	785.00	DF12D(4.0)-30DP-0.5V(81)
	36		11.2	8.5	H5235CT-ND	2.21	1.70	1.36	904.00	DF12D(4.0)-36DP-0.5V(81)
	40		12.2	9.5	H5236CT-ND	2.28	1.75	1.40	931.00	DF12D(4.0)-40DP-0.5V(81)
	50		14.7	12.0	H5237CT-ND	2.83	2.18	1.74	1157.00	DF12D(4.0)-50DP-0.5V(81)
4	30	With Guide Posts and Reinforced Fittings	10.5	7.0	H5238CT-ND	1.92	1.48	1.18	785.00	DF12(4.0)-30DP-0.5V(86)
	36		12.0	8.5	H5239CT-ND	1.92	1.48	1.18	785.00	DF12(4.0)-36DP-0.5V(86)
	40		13.0	9.5	H5240CT-ND	2.02	1.55	1.24	825.00	DF12(4.0)-40DP-0.5V(86)
	50		15.5	12.0	H5241CT-ND	2.31	1.78	1.42	944.00	DF12(4.0)-50DP-0.5V(86)
	60		18.0	14.5	H5002CT-ND	2.73	2.10	1.68	1117.00	DF12(4.0)-60DP-0.5V(86)
5.0mm Stacking Height										
2	20	With Guide Posts	7.2	4.5	H5242CT-ND	1.79	1.30	1.06	625.00	DF12D(5.0)-20DP-0.5V(81)
	50		14.7	12.0	H5243CT-ND	2.96	2.28	1.82	1210.00	DF12D(5.0)-50DP-0.5V(81)
4	20	With Guide Posts and Reinforced Fittings	8.0	4.5	H5244CT-ND	1.14	.83	.68	399.00	DF12(5.0)-20DP-0.5V(86)
	50		15.5	12.0	H5245CT-ND	2.08	1.60	1.28	851.00	DF12(5.0)-50DP-0.5V(86)
	60		17.2	14.5	H5006CT-ND	2.34	1.80	1.44	958.00	DF12(5.0)-60DP-0.5V(86)

◆ ***RoHS Compliant*** ▲ For Tape and Reel part number, change CT-ND to TR-ND

DF17 Surface Mount Connectors - 0.5mm Pitch

Features: • Developed for portable electronic and mobile telecommunications equipment • Designed specifically for mobile electronic devices, these connectors withstand the shock and resist breakage and disconnection that can occur when subjected to drop impact.

Applications: Suited to a wide variety of mobile applications such as LCD-related equipment, miniature portable remote terminals, as well as portable telephones.

Specifications: • Rated Current: 0.3A • Rated Voltage: AC50 • Temperature Range: -35°C ~ 85°C • Storage Temperature: -10°C ~ 60°C • Humidity Range: 40% ~ 80% • Storage Humidity: 40% ~ 70% • Insulation Resistance: 500MΩ or more • Contact Resistance: 60mΩ or less • Vibration Resistance: No instantaneous electric disconnection of 1µS or more • Humidity Resistance: 60mΩ or less for Contact, 250MΩ or more for Insulation • Temperature Cycle: 60mΩ or less for Contact Resistance, 500MΩ or more for Insulation Resistance • Duration Against Plugging/Unplugging: Contact resistance 60mΩ or less • Heat Resistance of Soldering: No fusion of resin section affecting performance

Material (receptacle/header): • Insulator: Polyamide resin, white, UL94V-0 • Contacts: Phosphor copper, gold plating • Metal Fittings: Phosphor copper, Tin-lead plating

Receptacle

Shown with
reinforced fittings

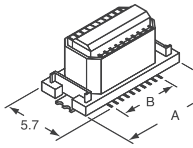

Header

Shown with
reinforced fittings

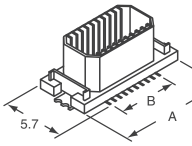

No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R◊ Pricing 1,000	Hirose Part No.
Receptacles								
NEW! 4mm Stacking Height – With Guide Posts, Without Reinforced Fittings — RoHS Compliant NEW!								
30	12.5	7.0	H11578CT-ND	1.92	1.48	1.18	785.00	DF17A(3.0H)-30DS-0.5V(57)
5mm, 7mm Stacking Height – With Guide Posts, Without Reinforced Fittings — RoHS Compliant								
20	10.0	4.5	H2354CT-ND	1.79	1.30	1.06	—	DF17A(3.0)-20DS-0.5V(51)
20	10.0	4.5	H11559CT-ND	1.82	1.32	1.08	638.00	DF17A(3.0)-20DS-0.5V(57)
30	12.5	7.0	H2355CT-ND	1.98	1.53	1.22	811.00	DF17A(3.0)-30DS-0.5V(51)
40	15.0	9.5	H2356CT-ND	2.34	1.80	1.44	958.00	DF17A(3.0)-40DS-0.5V(51)
50	17.5	12.0	H2357CT-ND	2.70	2.08	1.66	1104.00	DF17A(3.0)-50DS-0.5V(51)
60	20.0	14.5	H2358CT-ND	3.09	2.38	1.90	1264.00	DF17A(3.0)-60DS-0.5V(51)
70	22.5	17.0	H2359CT-ND	3.10	2.41	1.93	1391.00	DF17A(3.0)-70DS-0.5V(51)
80	25.0	19.5	H2360CT-ND	3.42	2.66	2.13	1534.00	DF17A(3.0)-80DS-0.5V(51)
6mm, 8mm Stacking Height – With Guide Posts, Without Reinforced Fittings								
20	10.0	4.5	H11121CT-ND◆	1.66	1.28	1.02	678.00	DF17A(4.0)-20DS-0.5V(57)
30	12.5	7.0	H11122CT-ND◆	1.92	1.48	1.18	785.00	DF17A(4.0)-30DS-0.5V(57)
40	15.0	9.5	H2363CT-ND	2.13	1.64	1.31	—	DF17A(4.0)-40DS-0.5V(51)
40	15.0	9.5	H11123CT-ND◆	2.21	1.70	1.36	904.00	DF17A(4.0)-40DS-0.5V(57)
50	17.5	12.0	H11124CT-ND◆	2.44	1.88	1.50	998.00	DF17A(4.0)-50DS-0.5V(57)
60	20.0	14.5	H2365CT-ND	2.78	2.14	1.72	—	DF17A(4.0)-60DS-0.5V(51)
60	20.0	14.5	H11125CT-ND◆	2.73	2.10	1.68	1117.00	DF17A(4.0)-60DS-0.5V(57)
70	22.5	17.0	H2303CT-ND	3.13	2.41	1.93	—	DF17A(4.0)-70DS-0.5V(51)
70	22.5	17.0	H11126CT-ND◆	3.02	2.33	1.86	1237.00	DF17A(4.0)-70DS-0.5V(57)
80	25.0	19.5	H11127CT-ND◆	3.68	2.86	2.29	1651.00	DF17A(4.0)-80DS-0.5V(57)
5mm, 7mm Stacking Height – With Guide Posts, With Reinforced Fittings								
20	10.0	4.5	H11107CT-ND◆	1.63	1.25	1.00	665.00	DF17(3.0)-20DS-0.5V(57)
30	12.5	7.0	H2368CT-ND	1.93	1.49	1.19	790.00	DF17(3.0)-30DS-0.5V(51)
30	12.5	7.0	H11108CT-ND◆	1.79	1.38	1.10	732.00	DF17(3.0)-30DS-0.5V(57)
40	15.0	9.5	H11109CT-ND◆	2.02	1.55	1.24	825.00	DF17(3.0)-40DS-0.5V(57)
50	17.5	12.0	H2370CT-ND	2.65	2.04	1.63	—	DF17(3.0)-50DS-0.5V(51)
50	17.5	12.0	H11110CT-ND◆	2.28	1.75	1.40	931.00	DF17(3.0)-50DS-0.5V(57)
60	20.0	14.5	H2371CT-ND	3.00	2.31	1.85	1229.00	DF17(3.0)-60DS-0.5V(51)
60	20.0	14.5	H11111CT-ND◆	2.47	1.90	1.52	1011.00	DF17(3.0)-60DS-0.5V(57)
70	22.5	17.0	H11112CT-ND◆	2.73	2.10	1.68	1117.00	DF17(3.0)-70DS-0.5V(57)
80	25.0	19.5	H2373CT-ND	3.34	2.59	2.07	—	DF17(3.0)-80DS-0.5V(51)
80	25.0	19.5	H11113CT-ND◆	2.99	2.30	1.84	1224.00	DF17(3.0)-80DS-0.5V(57)
6mm, 8mm Stacking Height – With Guide Posts, With Reinforced Fittings								
20	10.0	4.5	H11114CT-ND◆	1.76	1.35	1.08	718.00	DF17(4.0)-20DS-0.5V(57)
30	12.5	7.0	H11115CT-ND◆	1.98	1.53	1.22	811.00	DF17(4.0)-30DS-0.5V(57)
40	15.0	9.5	H11116CT-ND◆	2.28	1.75	1.40	931.00	DF17(4.0)-40DS-0.5V(57)
50	17.5	12.0	H2377CT-ND	2.50	1.93	1.54	—	DF17(4.0)-50DS-0.5V(51)
50	17.5	12.0	H11117CT-ND◆	2.54	1.95	1.56	1037.00	DF17(4.0)-50DS-0.5V(57)
60	20.0	14.5	H11118CT-ND◆	2.80	2.15	1.72	1144.00	DF17(4.0)-60DS-0.5V(57)
70	22.5	17.0	H11119CT-ND◆	3.12	2.40	1.92	1277.00	DF17(4.0)-70DS-0.5V(57)
80	25.0	19.5	H11120CT-ND◆	3.68	2.86	2.29	1651.00	DF17(4.0)-80DS-0.5V(57)

No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R◊ Pricing 1,000	Hirose Part No.
Headers								
NEW! 4mm Stacking Height – With Guide Posts, Without Reinforced Fittings — RoHS Compliant NEW!								
30	12.5	7.0	H11577CT-ND	1.72	1.33	1.06	705.00	DF17A(1.0H)-30DP-0.5V(57)
5mm, 6mm Stacking Height – With Guide Posts, Without Reinforced Fittings								
20	10.0	4.5	H11135CT-ND◆	2.02	1.55	1.24	825.00	DF17A(2.0)-20DP-0.5V(57)
30	12.5	7.0	H11136CT-ND◆	2.50	1.93	1.54	1024.00	DF17A(2.0)-30DP-0.5V(57)
40	15.0	9.5	H11137CT-ND◆	2.96	2.28	1.82	1210.00	DF17A(2.0)-40DP-0.5V(57)
50	17.5	12.0	H2383CT-ND	2.78	2.14	1.71	—	DF17A(2.0)-50DP-0.5V(51)
50	17.5	12.0	H11138CT-ND◆	3.07	2.39	1.91	1378.00	DF17A(2.0)-50DP-0.5V(57)
60	20.0	14.5	H2384CT-ND	3.16	2.43	1.95	1293.00	DF17A(2.0)-60DP-0.5V(51)
60	20.0	14.5	H11139CT-ND◆	3.51	2.73	2.18	1573.00	DF17A(2.0)-60DP-0.5V(57)
70	22.5	17.0	H2385CT-ND	3.16	2.46	1.97	1417.00	DF17A(2.0)-70DP-0.5V(51)
70	22.5	17.0	H11140CT-ND◆	3.94	3.06	2.45	1768.00	DF17A(2.0)-70DP-0.5V(57)
80	25.0	19.5	H2386CT-ND	3.51	2.73	2.18	—	DF17A(2.0)-80DP-0.5V(51)
80	25.0	19.5	H11141CT-ND◆	5.16	4.01	3.21	2314.00	DF17A(2.0)-80DP-0.5V(57)
7mm, 8mm Stacking Height – With Guide Posts, Without Reinforced Fittings								
20	10.0	4.5	H2387CT-ND	1.69	1.30	1.04	—	DF17A(4.0)-20DP-0.5V(51)
20	10.0	4.5	H11149CT-ND◆	2.24	1.73	1.38	918.00	DF17A(4.0)-20DP-0.5V(57)
30	12.5	7.0	H2388CT-ND	2.08	1.61	1.29	853.00	DF17A(4.0)-30DP-0.5V(51)
30	12.5	7.0	H11150CT-ND◆	2.76	2.13	1.70	1131.00	DF17A(4.0)-30DP-0.5V(57)
40	15.0	9.5	H2389CT-ND	2.48	1.91	1.53	1015.00	DF17A(4.0)-40DP-0.5V(51)
40	15.0	9.5	H11151CT-ND◆	3.71	2.88	2.31	1664.00	DF17A(4.0)-40DP-0.5V(57)
50	17.5	12.0	H2390CT-ND	2.89	2.22	1.78	—	DF17A(4.0)-50DP-0.5V(51)
50	17.5	12.0	H11152CT-ND◆	3.48	2.70	2.16	1560.00	DF17A(4.0)-50DP-0.5V(57)
60	20.0	14.5	H2391CT-ND	2.93	2.28	1.82	—	DF17A(4.0)-60DP-0.5V(51)
60	20.0	14.5	H11153CT-ND◆	3.92	3.04	2.43	1755.00	DF17A(4.0)-60DP-0.5V(57)
70	22.5	17.0	H2392CT-ND	3.34	2.59	2.07	—	DF17A(4.0)-70DP-0.5V(51)
70	22.5	17.0	H11154CT-ND◆	4.47	3.47	2.78	2002.00	DF17A(4.0)-70DP-0.5V(57)
80	25.0	19.5	H11155CT-ND◆	5.68	4.41	3.53	2548.00	DF17A(4.0)-80DP-0.5V(57)
5mm, 6mm Stacking Height – With Guide Posts, With Reinforced Fittings								
20	10.0	4.5	H11128CT-ND◆	2.11	1.63	1.30	865.00	DF17(2.0)-20DP-0.5V(57)
30	12.5	7.0	H11129CT-ND◆	2.60	2.00	1.60	1064.00	DF17(2.0)-30DP-0.5V(57)
40	15.0	9.5	H11130CT-ND◆	3.06	2.35	1.88	1250.00	DF17(2.0)-40DP-0.5V(57)
50	17.5	12.0	H11131CT-ND◆	3.16	2.46	1.97	1417.00	DF17(2.0)-50DP-0.5V(57)
60	20.0	14.5	H11387CT-ND◆	3.60	2.79	2.24	1612.00	DF17(2.0)-60DP-0.5V(57)
70	22.5	17.0	H11133CT-ND◆	4.06	3.15	2.52	1820.00	DF17(2.0)-70DP-0.5V(57)
80	25.0	19.5	H2400CT-ND	3.57	2.77	2.22	1599.00	DF17(2.0)-80DP-0.5V(51)
80	25.0	19.5	H11134CT-ND◆	5.25	4.08	3.26	2353.00	DF17(2.0)-80DP-0.5V(57)
7mm, 8mm Stacking Height – With Guide Posts, With Reinforced Fittings								
20	10.0	4.5	H11142CT-ND◆	2.31	1.78	1.42	944.00	DF17(4.0)-20DP-0.5V(57)
30	12.5	7.0	H11143CT-ND◆	2.86	2.20	1.76	1170.00	DF17(4.0)-30DP-0.5V(57)
40	15.0	9.5	H11144CT-ND◆	3.05	2.37	1.89	1365.00	DF17(4.0)-40DP-0.5V(57)
50	17.5	12.0	H2404CT-ND	2.91	2.24	1.80	—	DF17(4.0)-50DP-0.5V(51)
50	17.5	12.0	H11145CT-ND◆	3.60	2.79	2.24	1612.00	DF17(4.0)-50DP-0.5V(57)
60	20.0	14.5	H2405CT-ND	2.96	2.30	1.84	1326.00	DF17(4.0)-60DP-0.5V(51)
60	20.0	14.5	H11146CT-ND◆	4.03	3.13	2.51	1807.00	DF17(4.0)-60DP-0.5V(57)
70	22.5	17.0	H2406CT-ND	3.36	2.61	2.09	—	DF17(4.0)-70DP-0.5V(51)
70	22.5	17.0	H11147CT-ND◆	4.55	3.54	2.83	2041.00	DF17(4.0)-70DP-0.5V(57)
80	25.0	19.5	H11148CT-ND◆	5.80	4.50	3.60	2600.00	DF17(4.0)-80DP-0.5V(57)

◆ ***RoHS Compliant*** ◊ For Tape and Reel part number, change CT-ND to TR-ND.

HIROSE
ELECTRIC
CO.,LTD.

FX10A Series - Surface Mount

0.5mm Conn. with Ground Plate for Board-to-Board Connections

Fig. 1

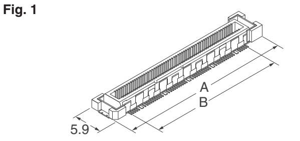

Fig. 2

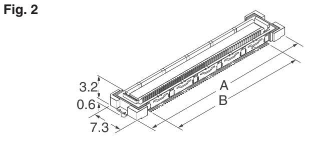

Features:
Transmission characteristics have been improved through a design that fixes ground plates to both sides of the header and receptacle.

Signal and ground are arranged in a ratio of 10:1 with the ground plate SMT connected to the board. The ground stability achieved serves to reduce noise. Suited to high-density applications. The signal contact pitch of 0.5mm produces a smaller connector utilizing less board area for mounting.

Board-to-Board dimensions of 4mm and 5mm are available.

Materials: • Insulator: LCP resin, Beige, UL94V–0 • Contacts: Phosphor bronze • Header Engagement Area: Gold plating of 0.1μm • Termination Area: Solder plating • Receptacle Engagement Area: Gold plating of 0.1m • Termination Area: Flash plating Ground plate: Phosphor bronze, solder plating • Reinforced fitting: Phosphor bronze, Tin plating

Electrical: • Rated current: 0.3A • Operating temperature range: -55 ~ 85°C • Rated voltage: 50VAC • Operating humidity range: Relative humidity 95% or less (No condensation)

Note: The thickness of the solder paste is not included in the stack height.

	Mounting	No. of Contacts		Dimensions (mm)		Digi-Key	Price Each			Hirose	Digi-Key	T&R Pricing	Hirose
Fig.	Height	Signal	Ground	A	B	Part No.	1	25	100	Part No.	Part No.	1,000	Part No.
Headers													
With Guideposts													
1	4mm	80	8	31.1	23.5	H11240-ND◆	5.51	4.28	3.42	FX10A-80P/8-SV(71)	H11240TR-ND◆	2261.00	FX10A-80P/8-SV(91)
		100	10	37.1	29.5	H2477-ND	6.50	5.04	4.04	FX10A-100P/10-SV	H2477TR-ND	2431.00	FX10A-100P/10-SV(21)
		100	10	37.1	29.5	H11241-ND◆	6.26	4.86	3.89	FX10A-100P/10-SV(71)	H11241TR-ND◆	2517.00	FX10A-100P/10-SV(91)
		120	12	43.1	35.5	H11242-ND◆	6.67	5.18	4.14	FX10A-120P/12-SV(71)	H11243TR-ND◆	2746.00	FX10A-120P/12-SV(91)
		140	14	49.1	41.5	H11244-ND◆	6.55	5.30	4.16	FX10A-140P/14-SV(71)	H11244TR-ND◆	3002.00	FX10A-140P/14-SV(91)
	5mm	80	8	31.1	23.5	H11245-ND◆	5.51	4.28	3.42	FX10A-80P/8-SV1(71)	H11245TR-ND◆	2261.00	FX10A-80P/8-SV1(91)
		100	10	37.1	29.5	H2485-ND	5.89	4.57	3.66	FX10A-100P/10-SV1	H2485TR-ND	2431.00	FX10A-100P/10-SV1(21)
		100	10	37.1	29.5	H11246-ND◆	6.12	4.75	3.80	FX10A-100P/10-SV1(71)	H11246TR-ND◆	2517.00	FX10A-100P/10-SV1(91)
		120	12	43.1	35.5	H2486-ND	6.44	5.00	4.00	FX10A-120P/12-SV1	—	—	—
		120	12	43.1	35.5	H11247-ND◆	6.67	5.18	4.14	FX10A-120P/12-SV1(71)	H11247TR-ND◆	2746.00	FX10A-120P/12-SV1(91)
		140	14	49.1	41.5	H2487-ND	7.05	5.47	4.38	FX10A-140P/14-SV1	H2487TR-ND	2899.00	FX10A-140P/14-SV1(21)
		140	14	49.1	41.5	H11248-ND◆	6.55	5.30	4.16	FX10A-140P/14-SV1(71)	H11248TR-ND◆	3002.00	FX10A-140P/14-SV1(91)
Without Guideposts — RoHS Compliant													
1	4mm	80	8	31.1	23.5	H2480-ND	5.31	4.12	3.30	FX10B- 80P/8-SV	—	—	—
		80	8	31.1	23.5	H11249-ND	5.51	4.28	3.42	FX10B-80P/SV(71)	H11249TR-ND	2184.00	FX10B-80P/8-SV(91)
		100	10	37.1	29.5	H11225-ND	6.12	4.75	3.80	FX10B-100P/10-SV(71)	H11225TR-ND	2517.00	FX10B-100P/10-SV(91)
		120	12	43.1	35.5	H11226-ND	6.67	5.18	4.14	FX10B-120P/12-SV(71)	H11226TR-ND	2746.00	FX10B-120P/12-SV(91)
		140	14	49.1	41.5	H11227-ND	6.55	5.30	4.16	FX10B-140P/14-SV(71)	H11227TR-ND	3002.00	FX10B-140P/14-SV(91)
	5mm	80	8	31.1	23.5	H11228-ND	5.51	4.28	3.42	FX10B-80P/8-SV1(71)	H11228TR-ND	2261.00	FX10B-80P/8-SV1(91)
		100	10	37.1	29.5	H11229-ND	6.12	4.75	3.80	FX10B-100P/8-SV1(71)	H11229TR-ND	2517.00	FX10B-100P/10-SV1(91)
		120	12	43.1	35.5	H11230-ND	6.67	5.18	4.14	FX10B-120P/12-SV1(71)	H11230TR-ND	2746.00	FX10B-120P/12-SV1(91)
		140	14	49.1	41.5	H11231-ND	6.55	5.30	4.16	FX10B-140P/14-SV1(71)	H11231TR-ND	3002.00	FX10B-140P/14-SV1(91)
Receptacles													
With Guideposts													
2	—	80	8	31.1	23.5	H11232-ND◆	5.54	4.30	3.44	FX10A-80S/8-SV(71)	H11232TR-ND◆	2288.00	FX10A-80S/8-SV(91)
		100	10	37.1	29.5	—	—	—	—	—	H2469TR-ND	2457.00	FX10A-100S/10-SV(21)
		100	10	37.1	29.5	H11233-ND◆	6.21	4.82	3.86	FX10A-100S/10-SV(71)	H11233TR-ND◆	2544.00	FX10A-100S/10-SV(91)
		120	12	43.1	35.5	H11234-ND◆	6.96	5.40	4.32	FX10A-120S/12-SV(71)	H11234TR-ND◆	2839.00	FX10A-120S/12-SV(91)
		140	14	49.1	41.5	H11235-ND◆	6.84	5.53	4.34	FX10A-140S/14-SV(71)	H11235TR-ND◆	3149.00	FX10A-140S/14-SV(91)
Without Guideposts — RoHS Compliant													
2	—	80	8	31.1	23.5	H11236-ND	5.54	4.30	3.44	FX10B-80S/8-SV(71)	H11236TR-ND	2288.00	FX10B-80S/8-SV(91)
		100	10	37.1	29.5	H11237-ND	6.21	4.82	3.86	FX10B-100S/10-SV(71)	H11237TR-ND	2544.00	FX10B-100S/10-SV(91)
		120	12	43.1	35.5	H11238-ND	6.96	5.40	4.32	FX10B-120S/12-SV(71)	H11238TR-ND	2839.00	FX10B-120S/12-SV(91)
		140	14	49.1	41.5	H11239-ND	6.84	5.53	4.34	FX10B-140S/14-SV(71)	H11239TR-ND	3149.00	FX10B-140S/14-SV(91)

◆ *RoHS Compliant*

FX11L Series - Surface Mount

0.5mm Connectors with Ground Plate for 2mm Board-to-Board Connections

RoHS COMPLIANT

Features: Low Profile Design. The board-to-board mating height of 2mm suits smaller, thinner case designs. Improved transmission efficiency between boards. Transmission characteristics have been improved through a design that fixes ground plates to both sides of the header and receptacle. Signal and ground are arranged in a ratio of 10:1 with the ground plate SMT connected to the board. The ground stability achieved serves to reduce noise. Suited to High-Density Applications. The signal contact pitch of 0.5mm produces a smaller connector utilizing less board area for mounting.

Applications: Notebook computers, PDA, and other miniature electronic equipment.

Material: • Insulator: LCP resin, Beige, UL94V-0 • Contacts: Copper alloy • Header: Phosphor bronze • Receptacle: Engagement area: Gold plating of 0.1 μm Termination Area: Flash plating Ground plate: Phosphor bronze solder plating • Reinforced fitting/plate: Phosphor bronze, Tin plating

Electrical: • Rated current: 0.3 A • Operating temperature range: -55 ~ 80°C • Rated voltage: 50VAC • Operating humidity range: Relative humidity 95% or less (No condensation)

Fig.1

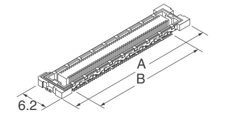

Fig. 2

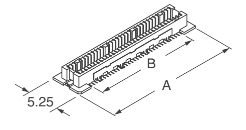

	No. of Contacts		Dim. (mm)		Digi-Key	Price Each			Hirose
Fig.	Signal	Ground	A	B	Part No.	1	25	100	Part No.
Receptacles									
With Ground Plate and Guideposts									
1	60	6	25	17.5	H10776-ND	4.73	3.67	2.94	FX11LA-60S/6-SV(71)
	80	8	31	23.5	H10777-ND	5.25	4.08	3.26	FX11LA-80S/8-SV(71)
	100	10	37	29.5	H10778-ND	5.77	4.48	3.59	FX11LB-100S/10-SV(71)
	120	12	43	35.5	H10779-ND	6.29	4.89	3.91	FL11LA-120S/12-SV(71)
With Ground Plate, Without Guideposts									
1	60	6	25	17.5	H10780-ND	4.73	3.67	2.94	FX11LB-60S/6-SV(71)
	80	8	31	23.5	H10781-ND	5.25	4.08	3.26	FX11LB-80S/8-SV(71)
	100	10	37	29.5	H10782-ND	5.77	4.48	3.59	FX11LB-100S/10-SV(71)
	120	12	43	35.5	H10783-ND	6.29	4.89	3.91	FX11LB-120S/12-SV(71)
Without Ground Plate, With Guideposts									
1	68	—	25	16.5	H2541-ND	4.26	3.31	2.65	FX11LA-68S-SV
	92	—	31	22.5	H2542-ND	4.76	3.69	2.96	FX11LA-92S-SV
	116	—	37	28.5	H2543-ND	5.31	4.12	3.30	FX11LA-116S-SV
	140	—	43	34.5	H2544-ND	5.80	4.50	3.60	FX11LA-140S-SV
Without Ground Plate and Guideposts									
1	68	—	25	16.5	H2545-ND	4.26	3.31	2.65	FX11LB-68S-SV
	92	—	31	22.5	H2546-ND	4.76	3.69	2.96	FX11LB-92S-SV
	116	—	37	28.5	H2547-ND	5.31	4.12	3.30	FX11LB-116S-SV
	140	—	43	34.5	H2548-ND	5.80	4.50	3.60	FX11LB-140S-SV

	No. of Contacts		Dim. (mm)		Digi-Key	Price Each			Hirose
Fig.	Signal	Ground	A	B	Part No.	1	25	100	Part No.
Headers									
With Ground Plate and Guideposts									
2	60	6	22.6	17.5	H10768-ND	4.55	3.54	2.83	FX11LA-60P/6-SV(71)
	80	8	28.6	23.5	H10769-ND	5.02	3.90	3.12	FX11LA-80P/8-SV(71)
	100	10	34.6	29.5	H10770-ND	5.51	4.28	3.42	FX11LA-100P/10-SV(71)
	120	12	40.6	35.5	H10771-ND	6.00	4.66	3.73	FX11LA-120P/12-SV(71)
With Ground Plate, Without Guideposts									
2	60	6	22.6	17.5	H10772-ND	4.55	3.54	2.83	FX11LB-60P/6-SV(71)
	80	8	28.6	23.5	H10773-ND	5.02	3.90	3.12	FX11LB-80P/8-SV(71)
	100	10	34.6	29.5	H10774-ND	5.51	4.28	3.42	FX11LB-100P/10-SV(71)
	120	12	40.6	35.5	H10775-ND	6.00	4.66	3.73	FX11LB-120P/12-SV(71)
Without Ground Plate, With Guideposts									
2	68	—	22.6	16.5	H2533-ND	3.60	2.79	2.24	FX11LA-68P-SV
	92	—	28.6	22.5	H2534-ND	4.03	3.13	2.51	FX11LA-92P-SV
	116	—	34.6	28.5	H2535-ND	4.44	3.45	2.76	FX11LA-116P-SV
	140	—	40.6	34.5	H2536-ND	4.84	3.76	3.01	FX11LA-140P-SV
Without Ground Plate and Guideposts									
2	68	—	22.6	16.5	H2537-ND	3.60	2.79	2.24	FX11LB-68P-SV
	92	—	28.6	22.5	H2538-ND	4.03	3.13	2.51	FX11LB-92P-SV
	116	—	34.6	28.5	H2539-ND	4.44	3.45	2.76	FX11LB-116P-SV
	140	—	40.6	34.5	H2540-ND	4.84	3.76	3.01	FX11LB-140P-SV

FX8 Series Connectors 0.6mm Pitch - Single Row (SMT)

Features: • 3-16mm stacking height • The engagement portion is designed to prevent erroneous insertion and a bellows structure that is not susceptible to twisting has been used in the contacts • The SMT soldering lead portion protrudes about 0.7mm beyond the outer surface of the housing, enabling image processing for automatic mounting and affording excellent repair qualities • Connectors are equipped with board positioning bosses which prevent incorrect insertion to the board by means of boss position and boss diameter.

Electrical: • Current Capacity: 0.4A per pin • Rated Voltage: 100VAC • Insulation Resistance: 1000MΩ or greater at 250VDC • Withstand Voltage: 300VAC r.m.s. for one minute at specified value • Contact Resistance: 45mΩ or less at 100mA DC

Material and Finish: • Insulation: PBS, light brown, UL94V-0 • Header Contacts: Phosphor bronze, gold-plated contacts, Tin-lead plated • Receptacle Contacts: Phosphor bronze, gold-plated contacts and leads

Fig. 1

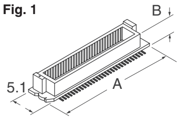

Fig. 2

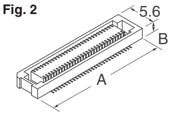

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
Vertical Pin Headers								
1	60	24.60	8.45	H1228-ND	3.83	2.97	2.38	FX8C-60P-SV4(21)
	80	30.60	4.45	H1222-ND	4.35	3.38	2.70	FX8C-80P-SV(21)
	120	42.60	3.45	H1212-ND	3.63	2.82	2.25	FX8-120P-SV1(21)
	140	48.60	5.45	H1242-ND	5.95	4.62	3.69	FX8C-140P-SV1(21)
			10.45	H1245-ND	5.95	4.62	3.69	FX8C-140P-SV6(21)
Vertical Pin Headers — RoHS Compliant								
1	40	18.60	2.45	H10685-ND	2.70	2.08	1.66	FX8-40P-SV(91)
	60	24.60	2.45	H10686-ND	2.90	2.25	1.80	FX8-60P-SV(91)
			3.45	H10691-ND	2.83	2.18	1.74	FX8-60P-SV1(91)
			4.45	H10697-ND	4.12	3.20	2.56	FX8C-60P-SV(91)
			5.45	H11522-ND	3.97	3.09	2.47	FX8C-60P-SV1(91)
			6.45	H11505-ND	3.97	3.09	2.47	FX8C-60P-SV2(91)
			8.45	H11506-ND	3.97	3.09	2.47	FX8C-60P-SV4(91)
			10.45	H11507-ND	3.97	3.09	2.47	FX8C-60P-SV6(91)
	80	30.60	2.45	H10687-ND	3.39	2.64	2.11	FX8-80P-SV(91)
			3.45	H10692-ND	2.93	2.28	1.82	FX8-80P-SV1(91)
			4.45	H10698-ND	4.64	3.60	2.88	FX8C-80P-SV(91)
			5.45	H11508-ND	4.52	3.51	2.81	FX8C-80P-SV1(91)
			6.45	H11509-ND	4.52	3.51	2.81	FX8C-80P-SV2(91)
			8.45	H11510-ND	4.52	3.51	2.81	FX8C-80P-SV4(91)
			10.45	H11511-ND	4.52	3.51	2.81	FX8C-80P-SV6(91)
	90	33.60	3.45	H10693-ND	3.16	2.46	1.97	FX8-90P-SV1(91)
1	100	36.60	2.45	H10688-ND	3.94	3.06	2.45	FX8-100P-SV(91)
			3.45	H10694-ND	3.36	2.61	2.09	FX8-100P-SV1(91)
			4.45	H10699-ND	5.25	4.08	3.26	FX8C-100P-SV(91)
			5.45	H11512-ND	5.05	3.92	3.14	FX8C-100P-SV1(91)
			6.45	H11513-ND	5.05	3.92	3.14	FX8C-100P-SV2(91)
			8.45	H11514-ND	5.05	3.92	3.14	FX8C-100P-SV4(91)
			10.45	H11523-ND	5.05	3.92	3.14	FX8C-100P-SV6(91)
	120	42.60	2.45	H10689-ND	4.47	3.47	2.78	FX8-120P-SV(91)
			3.45	H10695-ND	3.77	2.93	2.34	FX8-120P-SV1(91)
			4.45	H11520-ND	5.80	4.50	3.60	FX8C-120P-SV(91)
			5.45	H11524-ND	5.60	4.35	3.48	FX8C-120P-SV1(91)
			6.45	H11525-ND	5.60	4.35	3.48	FX8C-120P-SV2(91)
			8.45	H11526-ND	5.60	4.35	3.48	FX8C-120P-SV4(91)
			10.45	H11527-ND	5.60	4.35	3.48	FX8C-120P-SV6(91)
	140	48.60	2.45	H10690-ND	4.99	3.87	3.10	FX8-140P-SV(91)
			3.45	H10696-ND	4.18	3.24	2.60	FX8-140P-SV1(91)
			4.45	H11521-ND	6.38	4.95	3.96	FX8C-140P-SV(91)
			5.45	H11528-ND	6.18	4.80	3.84	FX8C-140P-SV1(91)
			6.45	H11529-ND	6.18	4.80	3.84	FX8C-140P-SV2(91)
			8.45	H11530-ND	6.18	4.80	3.84	FX8C-140P-SV4(91)
			10.45	H11531-ND	6.18	4.80	3.84	FX8C-140P-SV6(91)
Receptacles								
2	40	18.60	2.25	H1214-ND◆	3.06	2.35	1.88	FX8-40S-SV(21)
	60	24.60	2.25	H1215-ND◆	3.31	2.57	2.06	FX8-60S-SV(21)
			3.95	H1246-ND	3.92	3.04	2.43	FX8C-60S-SV(21)
	80	30.60	2.25	H1216-ND◆	3.94	3.06	2.45	FX8-80S-SV(21)
			8.95	H1252-ND	4.81	3.74	2.99	FX8C-80S-SV5(21)
	90	33.60	2.25	H1217-ND◆	4.26	3.31	2.65	FX8-90S-SV(21)
	100	36.60	2.25	H1218-ND◆	4.58	3.56	2.85	FX8-100S-SV(21)
	120	42.60	2.25	H1219-ND◆	5.22	4.05	3.24	FX8-120S-SV(21)
	140	48.60	2.25	H1220-ND◆	5.86	4.55	3.64	FX8-140S-SV(21)
			3.95	H1250-ND	6.15	4.77	3.82	FX8C-140S-SV(21)
Receptacles — RoHS Compliant								
2	60	24.60	3.95	H11532-ND	4.18	3.24	2.60	FX8C-60S-SV(91)
			8.95	H11536-ND	4.26	3.31	2.65	FX8C-60S-SV5(91)
	80	30.60	3.95	H11533-ND	4.81	3.74	2.99	FX8C-80S-SV(91)
			8.95	H11537-ND	4.99	3.87	3.10	FX8C-80S-SV5(91)
	100	36.60	3.95	H11534-ND	5.42	4.21	3.37	FX8C-100S-SV(91)
			8.95	H11538-ND	5.63	4.37	3.50	FX8C-100S-SV5(91)
	120	42.60	3.95	H11132-ND	6.00	4.66	3.73	FX8C-120S-SV(91)
			8.95	H10700-ND	6.29	4.89	3.91	FX8C-120S-SV5(91)
	140	48.60	3.95	H11535-ND	6.67	5.18	4.14	FX8C-140S-SV(91)
			8.95	H10701-ND	6.99	5.43	4.34	FX8C-140S-SV5(91)

◆ *RoHS Compliant*

DF15 Series - SMT Connectors

0.65mm Pitch - Board to Board

The product is prepared to prevent solder peeling, considering the mounting on FPC *(Note: The stacking height is determined by adding the header and receptacle to the figures followed by the product name DF15#. The stacking height doesn't include the soldering paste thickness.)*

Applications: • Mobile phones • LCD (Liquid Crystal Display) • MO (Optical Disk) • Note PC

Specifications: • Current Rating: 0.3A • Voltage Rating: 50VAC • Operating Temperature: -35°C ~ 85°C • Operating Humidity: 40% ~ 80% • Insulation Resistance: 100VDC, 500MΩ min. • Withstanding Voltage: 1 minute at rated value, 150VAC (no flashover or insulation breakdown) • Contact Resistance: 100mA DC, 50mΩ maximum

Material (receptacle/header): • Insulator: Polyamide, beige, UL94V-0 • Contacts: Phosphor copper with gold plating • Metal Fittings: Brass with tin-lead plating

Fig. 1

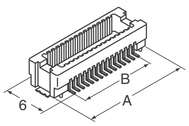

Fig. 2

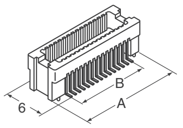

Fig. 3

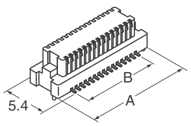

Fig.	Mtg. Hgt. (mm)	No. of Pins	Dim. (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R ◊ Pricing 1,000	Hirose Part No.
Headers										
With Metal Fitting and With Boss										
1	3.2	40	16.35	12.35	H1734-ND‡	2.28	1.75	1.40	—	DF15(3.2)-40DP-0.65V(50)
2	6.2	20	9.85	5.85	H1740-ND‡	1.71	1.24	1.02	—	DF15(6.2)-20DP-0.65V(50)
		30	13.1	9.1	H1741-ND‡	1.85	1.43	1.14	—	DF15(6.2)-30DP-0.65V(50)
With Metal Fitting and With Boss — RoHS Compliant										
1	3.2	20	9.85	5.85	H10437CT-ND	1.56	1.13	.93	545.00	DF15(3.2)-20DP-0.65V(56)
		30	13.1	9.1	H10438CT-ND	1.63	1.25	1.00	665.00	DF15(3.2)-30DP-0.65V(56)
		40	16.35	12.35	H10439CT-ND	1.95	1.50	1.20	798.00	DF15(3.2)-40DP-0.65V(56)
		50	19.6	15.6	H10440CT-ND	2.28	1.75	1.40	931.00	DF15(3.2)-50DP-0.65V(56)
2	4.2	20	9.85	5.85	H10453CT-ND	1.52	1.10	.90	532.00	DF15(4.2)-20DP-0.65V(56)
		30	13.1	9.1	H10454CT-ND	1.63	1.25	1.00	665.00	DF15(4.2)-30DP-0.65V(56)
		40	16.35	12.35	H10455CT-ND	1.92	1.48	1.18	785.00	DF15(4.2)-40DP-0.65V(56)
		50	19.6	15.6	H10456CT-ND	2.24	1.73	1.38	918.00	DF15(4.2)-50DP-0.65V(56)
	6.2	20	9.85	5.85	H10469CT-ND	1.52	1.10	.90	532.00	DF15(6.2)-20DP-0.65V(56)
		30	13.1	9.1	H10470CT-ND	1.86	1.35	1.11	652.00	DF15(6.2)-30DP-0.65V(56)
		40	16.35	12.35	H10471CT-ND	1.89	1.45	1.16	771.00	DF15(6.2)-40DP-0.65V(56)
		50	19.6	15.6	H10472CT-ND	2.21	1.70	1.36	904.00	DF15(6.2)-50DP-0.65V(56)
With Metal Fitting and Without Boss										
2	4.2	20	9.85	5.85	H1760-ND‡	1.71	1.24	1.02	—	DF15B(4.2)-20DP-0.65V(50)
		40	16.35	12.35	H1762-ND‡	2.28	1.75	1.40	—	DF15B(4.2)-40DP-0.65V(50)
	6.2	40	16.35	12.35	H1766-ND‡	2.28	1.75	1.40	—	DF15B(6.2)-40DP-0.65V(50)
With Metal Fitting and Without Boss — RoHS Compliant										
1	3.2	20	9.85	5.85	H10445CT-ND	1.56	1.13	.93	545.00	DF15B(3.2)-20DP-0.65V(56)
		30	13.1	9.1	H10446CT-ND	1.63	1.25	1.00	665.00	DF15B(3.2)-30DP-0.65V(56)
		40	16.35	12.35	H10447CT-ND	1.95	1.50	1.20	798.00	DF15B(3.2)-40DP-0.65V(56)
		50	19.6	15.6	H10448CT-ND	2.28	1.75	1.40	931.00	DF15B(3.2)-50DP-0.65V(56)
2	4.2	20	9.85	5.85	H10461CT-ND	1.52	1.10	.90	532.00	DF15B(4.2)-20DP-0.65V(56)
		30	13.1	9.1	H10462CT-ND	1.63	1.25	1.00	665.00	DF15B(4.2)-30DP-0.65V(56)
		40	16.35	12.35	H10463CT-ND	1.92	1.48	1.18	785.00	DF15B(4.2)-40DP-0.65V(56)
		50	19.6	15.6	H10464CT-ND	2.24	1.73	1.38	918.00	DF15B(4.2)-50DP-0.65V(56)
	6.2	20	9.85	5.85	H10477CT-ND	1.52	1.10	.90	532.00	DF15B(6.2)-20DP-0.65V(56)
		30	13.1	9.1	H10478CT-ND	1.86	1.35	1.11	652.00	DF15B(6.2)-30DP-0.65V(56)
		40	16.35	12.35	H10479CT-ND	1.89	1.45	1.16	771.00	DF15B(6.2)-40DP-0.65V(56)
		50	19.6	15.6	H10480CT-ND	2.21	1.70	1.36	904.00	DF15B(6.2)-50DP-0.65V(56)
Without Metal Fitting and With Boss										
1	3.2	20	9.85	5.85	H1744-ND‡	1.67	1.21	.99	—	DF15A(3.2)-20DP-0.65V(50)
		30	13.1	9.1	H1745-ND‡	1.79	1.38	1.10	—	DF15A(3.2)-30DP-0.65V(50)
		40	16.35	12.35	H1746-ND‡	2.28	1.75	1.40	—	DF15A(3.2)-40DP-0.65V(50)
2	4.2	20	9.85	5.85	H1748-ND‡	1.67	1.21	.99	—	DF15A(4.2)-20DP-0.65V(50)
		50	19.6	15.6	H1751-ND‡	2.63	2.03	1.62	—	DF15A(4.2)-50DP-0.65V(50)
	6.2	20	9.85	5.85	H1752-ND‡	1.67	1.21	.99	—	DF15A(6.2)-20DP-0.65V(50)
Without Metal Fitting and With Boss — RoHS Compliant										
1	3.2	20	9.85	5.85	H10441CT-ND	1.52	1.10	.90	532.00	DF15A(3.2)-20DP-0.65V(56)
		30	13.1	9.1	H10442CT-ND	1.63	1.25	1.00	665.00	DF15A(3.2)-30DP-0.65V(56)

◊ For Tape and Reel part number, change CT-ND to TR-ND. ‡ Tube

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

DF15 Series - SMT Connectors 0.65mm Pitch - Board to Board *(Cont.)*

Fig.	Mtg. Hgt. (mm)	No. of Pins	Dim. (mm)		Digi-Key Part No.	Cut Tape Price Each			T & R ◊ Pricing	Hirose Part No.
			A	B		1	25	100	1,000	
1	3.2	40	16.35	12.35	H10443CT-ND	1.92	1.48	1.18	785.00	DF15A(3.2)-40DP-0.65V(56)
		50	19.6	15.6	H10444CT-ND	2.24	1.73	1.38	918.00	DF15A(3.2)-50DP-0.65V(56)
2	4.2	20	9.85	5.85	H10457CT-ND	1.48	1.08	.88	519.00	DF15A(4.2)-20DP-0.65V(56)
		30	13.1	9.1	H10458CT-ND	1.86	1.35	1.11	652.00	DF15A(4.2)-30DP-0.65V(56)
		40	16.35	12.35	H10459CT-ND	1.89	1.45	1.16	771.00	DF15A(4.2)-40DP-0.65V(56)
		50	19.6	15.6	H10460CT-ND	2.21	1.70	1.36	904.00	DF15A(4.2)-50DP-0.65V(56)
	6.2	20	9.85	5.85	H10473CT-ND	1.48	1.08	.88	519.00	DF15A(6.2)-20DP-0.65V(56)
		30	13.1	9.1	H10474CT-ND	1.82	1.32	1.08	638.00	DF15A(6.2)-30DP-0.65V(56)
		40	16.35	12.35	H10475CT-ND	1.85	1.43	1.14	758.00	DF15A(6.2)-40DP-0.65V(56)
		50	19.6	15.6	H10476CT-ND	2.18	1.68	1.34	891.00	DF15A(6.2)-50DP-0.65V(56)
Without Metal Fitting and Without Boss										
1	3.2	20	9.85	5.85	H1768-ND‡	1.67	1.21	.99	—	DF15C(3.2)-20DP-0.65V(50)
		40	16.35	12.35	H1770-ND‡	2.28	1.75	1.40	—	DF15C(3.2)-40DP-0.65V(50)
2	6.2	20	9.85	5.85	H1776-ND‡	1.67	1.21	.99	—	DF15C(6.2)-20DP-0.65V(50)
Without Metal Fitting and Without Boss — RoHS Compliant										
1	3.2	20	9.85	5.85	H10449CT-ND	1.52	1.10	.90	532.00	DF15C(3.2)-20DP-0.65V(56)
		30	13.1	9.1	H10450CT-ND	1.63	1.25	1.00	665.00	DF15C(3.2)-30DP-0.65V(56)
		40	16.35	12.35	H10451CT-ND	1.92	1.48	1.18	785.00	DF15C(3.2)-40DP-0.65V(56)
		50	19.6	15.6	H10452CT-ND	2.24	1.73	1.38	918.00	DF15C(3.2)-50DP-0.65V(56)
2	4.2	20	9.85	5.85	H10465CT-ND	1.48	1.08	.88	519.00	DF15C(4.2)-20DP-0.65V(56)
		30	13.1	9.1	H10466CT-ND	1.86	1.35	1.11	652.00	DF15C(4.2)-30DP-0.65V(56)
		40	16.35	12.35	H10467CT-ND	1.89	1.45	1.16	771.00	DF15C(4.2)-40DP-0.65V(56)
		50	19.6	15.6	H10468CT-ND	2.21	1.70	1.36	904.00	DF15C(4.2)-50DP-0.65V(56)
	6.2	20	9.85	5.85	H10481CT-ND	1.48	1.08	.88	519.00	DF15C(6.2)-20DP-0.65V(56)
		30	13.1	9.1	H10482CT-ND	1.82	1.32	1.08	638.00	DF15C(6.2)-30DP-0.65V(56)
		40	16.35	12.35	H10483CT-ND	1.85	1.43	1.14	758.00	DF15C(6.2)-40DP-0.65V(56)
		50	19.6	15.6	H10484CT-ND	2.18	1.68	1.34	891.00	DF15C(6.2)-50DP-0.65V(56)
Receptacles										
With Metal Fitting and With Boss										
3	0.8	30	13.1	9.1	H1701-ND‡	1.89	1.45	1.16	—	DF15(0.8)-30DS-0.65V(50)
	1.8	20	9.85	5.85	H1704-ND‡	1.71	1.24	1.02	—	DF15(1.8)-20DS-0.65V(50)
		40	16.35	12.35	H1706-ND‡	2.41	1.85	1.48	—	DF15(1.8)-40DS-0.65V(50)
With Metal Fitting and With Boss — RoHS Compliant										
3	0.8	20	9.85	5.85	H10421CT-ND	1.75	1.27	1.04	612.00	DF15(0.8)-20DS-0.65V(56)
		30	13.1	9.1	H10422CT-ND	1.98	1.53	1.22	811.00	DF15(0.8)-30DS-0.65V(56)

Fig.	Mtg. Hgt. (mm)	No. of Pins	Dim. (mm)		Digi-Key Part No.	Cut Tape Price Each			T & R ◊ Pricing	Hirose Part No.
			A	B		1	25	100	1,000	
3	0.8	40	16.35	12.35	H10423CT-ND	2.47	1.90	1.52	1011.00	DF15(0.8)-40DS-0.65V(56)
		50	19.6	15.6	H10424CT-ND	2.96	2.28	1.82	1210.00	DF15(0.8)-50DS-0.65V(56)
	1.8	20	9.85	5.85	H10429CT-ND	1.41	1.02	.84	492.00	DF15(1.8)-20DS-0.65V(56)
		30	13.1	9.1	H10430CT-ND	1.79	1.30	1.06	625.00	DF15(1.8)-30DS-0.65V(56)
		40	16.35	12.35	H10431CT-ND	1.89	1.45	1.16	771.00	DF15(1.8)-40DS-0.65V(56)
		50	19.6	15.6	H10432CT-ND	2.24	1.73	1.38	918.00	DF15(1.8)-50DS-0.65V(56)
With Metal Fitting and Without Boss										
3	0.8	20	9.85	5.85	H1716-ND‡	1.75	1.27	1.04	—	DF15B(0.8)-20DS-0.65V(50)
		40	16.35	12.35	H1718-ND‡	2.50	1.93	1.54	—	DF15B(0.8)-40DS-0.65V(50)
	1.8	20	9.85	5.85	H1720-ND‡	1.75	1.27	1.04	—	DF15B(1.8)-20DS-0.65V(50)
		30	13.1	9.1	H1721-ND‡	1.98	1.53	1.22	—	DF15B(1.8)-30DS-0.65V(50)
		40	16.35	12.35	H1722-ND‡	2.50	1.93	1.54	—	DF15B(1.8)-40DS-0.65V(50)
With Metal Fitting and Without Boss — RoHS Compliant										
3	0.8	20	9.85	5.85	H10425CT-ND	1.75	1.27	1.04	612.00	DF15B(0.8)-20DS-0.65V(56)
		30	13.1	9.1	H10426CT-ND	1.98	1.53	1.22	811.00	DF15B(0.8)-30DS-0.65V(56)
		40	16.35	12.35	H10427CT-ND	2.47	1.90	1.52	1011.00	DF15B(0.8)-40DS-0.65V(56)
		50	19.6	15.6	H10428CT-ND	2.96	2.28	1.82	1210.00	DF15B(0.8)-50DS-0.65V(56)
	1.8	20	9.85	5.85	H10433CT-ND	1.41	1.02	.84	492.00	DF15B(1.8)-20DS-0.65V(56)
		30	13.1	9.1	H10434CT-ND	1.79	1.30	1.06	625.00	DF15B(1.8)-30DS-0.65V(56)
		40	16.35	12.35	H10435CT-ND	1.89	1.45	1.16	771.00	DF15B(1.8)-40DS-0.65V(56)
		50	19.6	15.6	H10436CT-ND	2.24	1.73	1.38	918.00	DF15B(1.8)-50DS-0.65V(56)
Without Metal Fitting and With Boss — RoHS Compliant										
3	0.8	20	9.85	5.85	H1708-ND‡	1.75	1.27	1.04	—	DF15A(0.8)-20DS-0.65V(50)
		30	13.1	9.1	H1709-ND‡	1.92	1.48	1.18	—	DF15A(0.8)-30DS-0.65V(50)
		40	16.35	12.35	H1710-ND‡	2.47	1.90	1.52	—	DF15A(0.8)-40DS-0.65V(50)
		50	19.6	15.6	H1711-ND‡	2.93	2.25	1.80	—	DF15A(0.8)-50DS-0.65V(50)
	1.8	20	9.85	5.85	H1712-ND‡	1.75	1.27	1.04	—	DF15A(1.8)-20DS-0.65V(50)
		30	13.1	9.1	H1713-ND‡	1.92	1.48	1.18	—	DF15A(1.8)-30DS-0.65V(50)
		40	16.35	12.35	H1714-ND‡	2.47	1.90	1.52	—	DF15A(1.8)-40DS-0.65V(50)
		50	19.6	15.6	H1715-ND‡	2.93	2.25	1.80	—	DF15A(1.8)-50DS-0.65V(50)
Without Metal Fitting and Without Boss — RoHS Compliant										
3	0.8	20	9.85	5.85	H1724-ND‡	1.75	1.27	1.04	—	DF15C(0.8)-20DS-0.65V(50)
		30	13.1	9.1	H1725-ND‡	1.92	1.48	1.18	—	DF15C(0.8)-30DS-0.65V(50)
		40	16.35	12.35	H1726-ND‡	2.47	1.90	1.52	—	DF15C(0.8)-40DS-0.65V(50)
		50	19.6	15.6	H1727-ND‡	2.93	2.25	1.80	—	DF15C(0.8)-50DS-0.65V(50)
	1.8	20	9.85	5.85	H1728-ND‡	1.75	1.27	1.04	—	DF15C(1.8)-20DS-0.65V(50)
		30	13.1	9.1	H1729-ND‡	1.92	1.48	1.18	—	DF15C(1.8)-30DS-0.65V(50)
		40	16.35	12.35	H1730-ND‡	2.47	1.90	1.52	—	DF15C(1.8)-40DS-0.65V(50)
		50	19.6	15.6	H1731-ND‡	2.93	2.25	1.80	—	DF15C(1.8)-50DS-0.65V(50)

◊ For Tape and Reel part number, change CT-ND to TR-ND. ‡ Tube

FX6 Series - Surface Mount Vertical Connectors 0.8mm Pitch

Features: Stacking height can be set from 5 ~ 9mm in 1mm steps. Though these are low profile type connectors, the effective length of engagement is long at 1.7mm, which affords a fit with leeway.
Applications: Notebook computers, personal terminals and other office automation equipment. Equipment that calls for miniaturization and lighter weight.
Material: • Insulator: PPS resin, light brown, UL94V-0 • Header/Receptacle pins: Phosphor bronze • Contacts: Gold plating • Leads: Tin plating **Electrical:** • Current Capacity: 0.5A • Rated Voltage: 100VAC • Insulation Resistance: 250VDC, 100MΩ or more • Withstand voltage for 1 minute at specified value 300VAC • Contact Resistance: 100mA DC 40mΩ or less

Fig. 1

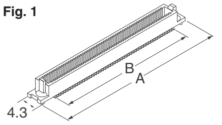

Fig. 2

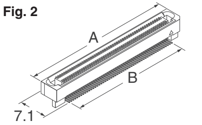

Fig.	Height (mm)	No. of Pins	Dimension (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
			A	B		1	25	100	
Headers									
With Positioning Boss									
1	4	100	47.8	39.2	H2413-ND	4.90	3.81	3.05	FX6-100P-0.8SV
With Positioning Boss — RoHS Compliant									
1	4	20	15.8	7.2	H10784-ND	2.41	1.85	1.48	FX6-20P-0.8SV(71)
		40	23.8	15.2	H10785-ND	3.19	2.48	1.98	FX6-40P-0.8SV(71)
		50	27.8	19.2	H10786-ND	3.74	2.91	2.33	FX6-50P-0.8SV(71)
		60	31.8	23.2	H10787-ND	4.23	3.29	2.63	FX6-60P-0.8SV(71)
		80	39.8	31.2	H10788-ND	5.28	4.10	3.28	FX6-80P-0.8SV(71)
		100	47.8	39.2	H10789-ND	6.32	4.91	3.93	FX6-100P-0.8SV(71)
	6	60	31.8	23.2	H10790-ND	4.58	3.56	2.85	FX6-60P-0.8SV1(71)
		100	47.8	39.2	H10791-ND	6.41	4.98	3.98	FX6-100P-0.8SV2(71)
Without Positioning Boss									
1	4	50	27.8	19.2	H2440-ND	2.99	2.32	1.86	FX6A-50P-0.8SV
		60	31.8	23.2	H2441-ND	3.36	2.61	2.09	FX6A-60P-0.8SV
		80	39.8	31.2	H2442-ND	4.12	3.20	2.56	FX6A-80P-0.8SV
	5	20	15.8	7.2	H2444-ND	2.73	2.10	1.68	FX6A-20P-0.8SV1
	6	60	31.8	23.2	H2453-ND	4.15	3.22	2.58	FX6A-60P-0.8SV2
Without Positioning Boss — RoHS Compliant									
1	4	20	15.8	7.2	H10792-ND	2.41	1.85	1.48	FX6A-20P-0.8SV(71)
		40	23.8	15.2	H10793-ND	3.19	2.48	1.98	FX6A-40P-0.8SV(71)
		50	27.8	19.2	H10794-ND	3.74	2.91	2.33	FX6A-50P-0.8SV(71)
		60	31.8	23.2	H10795-ND	4.23	3.29	2.63	FX6A-60P-0.8SV(71)
		80	39.8	31.2	H10796-ND	5.28	4.10	3.28	FX6A-80P-0.8SV(71)
		100	47.8	39.2	H10797-ND	6.32	4.91	3.93	FX6A-100P-0.8SV(71)
	5	20	15.8	7.2	H10798-ND	3.06	2.35	1.88	FX6A-20P-0.8SV1(71)
		40	23.8	15.2	H10799-ND	3.65	2.84	2.27	FX6A-40P-0.8SV1(71)
		60	31.8	23.2	H10800-ND	4.58	3.56	2.85	FX6A-60P-0.8SV1(71)
	6	50	27.8	19.2	H10801-ND	4.12	3.20	2.56	FX6A-50P-0.8SV2(71)
		60	31.8	23.2	H10802-ND	4.58	3.56	2.85	FX6A-60P-0.8SV2(71)

Fig.	Height (mm)	No. of Pins	Dimension (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
			A	B		1	25	100	
Receptacles									
With Positioning Boss — RoHS Compliant									
2	4	20	15.8	7.2	H10803-ND	2.41	1.85	1.48	FX6-20S-0.8SV(71)
		40	23.8	15.2	H10804-ND	3.10	2.41	1.93	FX6-40S-0.8SV(71)
		50	27.8	19.2	H10805-ND	3.57	2.77	2.22	FX6-50S-0.8SV(71)
		60	31.8	23.2	H10806-ND	4.03	3.13	2.51	FX6-60S-0.8SV(71)
		80	39.8	31.2	H10807-ND	4.96	3.85	3.08	FX6-80S-0.8SV(71)
		100	47.8	39.2	H10808-ND	5.89	4.57	3.66	FX6-100S-0.8SV(71)
	6	20	15.8	7.2	H10809-ND	3.36	2.61	2.09	FX6-20S-0.8SV2(71)
		40	23.8	15.2	H10810-ND	4.41	3.42	2.74	FX6-40S-0.8SV2(71)
		50	27.8	19.2	H10811-ND	4.87	3.78	3.03	FX6-50S-0.8SV2(71)
		60	31.8	23.2	H10812-ND	5.39	4.19	3.35	FX6-60S-0.8SV2(71)
		80	39.8	31.2	H10813-ND	6.41	4.98	3.98	FX6-80S-0.8SV2(71)
		100	47.8	39.2	H10814-ND	6.63	5.36	4.21	FX6-100S-0.8SV2(71)
Without Positioning Boss									
2	4	40	23.8	15.2	H2457-ND	3.15	2.43	1.94	FX6A-40S-0.8SV
		50	27.8	19.2	H2458-ND	3.25	2.52	2.02	FX6A-50S-0.8SV
		60	31.8	23.2	H2459-ND	3.65	2.84	2.27	FX6A-60S-0.8SV
		80	39.8	31.2	H2460-ND	4.52	3.51	2.81	FX6A-80S-0.8SV
	6	40	23.8	15.2	H2463-ND	3.97	3.09	2.47	FX6A-40S-0.8SV2
Without Positioning Boss — RoHS Compliant									
2	4	20	15.8	7.2	H10815-ND	2.41	1.85	1.48	FX6A-20S-0.8SV(71)
		40	23.8	15.2	H10816-ND	3.10	2.41	1.93	FX6A-40S-0.8SV(71)
		50	27.8	19.2	H10817-ND	3.57	2.77	2.22	FX6A-50S-0.8SV(71)
		60	31.8	23.2	H10818-ND	4.03	3.13	2.51	FX6A-60S-0.8SV(71)
		80	39.8	31.2	H10819-ND	4.96	3.85	3.08	FX6A-80S-0.8SV(71)
		100	47.8	39.2	H10820-ND	5.89	4.57	3.66	FX6A-100S-0.8SV(71)
	6	40	23.8	15.2	H10821-ND	4.41	3.42	2.74	FX6A-40S-0.8SV2(71)
		50	27.8	19.2	H10822-ND	4.87	3.78	3.03	FX6A-50S-0.8SV2(71)
		60	31.8	23.2	H10823-ND	5.39	4.19	3.35	FX6A-60S-0.8SV2(71)
		80	39.8	31.2	H10824-ND	6.41	4.98	3.98	FX6A-80S-0.8SV2(71)
		100	47.8	39.2	H10825-ND	6.63	5.36	4.21	FX6A-100S-0.8SV2(71)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO.,LTD.

DF9 Series - Surface Mount Connectors

1mm Pitch, Center Line Board-to-Board (With Reinforced Hardware)

Features: • 4.3mm mated height between PCBs • Insulator is manufactured from polyimide to withstand the high temperatures resulting from VPS, IR, and heat blow soldering • PCB contact is a “Gull-Wing” type design to ensure reliable performance • Designed to control and accept dimensional changes by thermo-elasticity • Reinforcement hardware is provided to eliminate mechanical stress to solder joints during mating and unmating cycles

Electrical: • Rated Current: 0.5A • Rated Voltage: 150VAC • Insulation Resistance: Condition: 100VDC, Standard Value: Minimum 500MΩ • Withstanding Voltage: No flashover or insulation breakdown; Condition: 250V AC/1 minute • Contact Resistance: 50mΩ max. @ 100mA • Operating Temperature Range: -45°C ~ 125°C

Material and Finish: • Receptacle Header Insulator: Polyimide resin, beige (natural), UL94V-0 • Receptacle and Header Contacts: Phosphor copper, tin, or gold plating • Receptacle and Header Fitting: Brass, tin plating.

Fig. 1

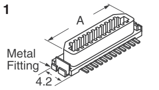

Fig. 2

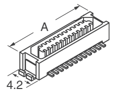

Fig.	No. of Pins	Dim. A (mm)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Hirose Part No.†
Receptacles									
Receptacles with Metal Fitting and Guideposts									
1	9	8.30	H10397CT-ND◆	1.22	22.00	72.00	H10397TR-ND◆	426.00	DF9-9S-1V(32)
	11	9.30	H10398CT-ND◆	1.29	23.38	76.50	H10398TR-ND◆	452.00	DF9-11S-1V(32)
	13	10.30	H10399CT-ND◆	1.41	25.44	83.25	H10399TR-ND◆	492.00	DF9-13S-1V(32)
	15	11.30	H10400CT-ND◆	1.56	28.19	92.25	H10400TR-ND◆	545.00	DF9-15S-1V(32)
	17	12.30	H2156-ND‡	1.56	28.19	92.25	—	—	DF9-17S-1V(20)
	17	12.30	H10401CT-ND◆	1.67	30.25	99.00	H10401TR-ND◆	585.00	DF9-17S-1V(32)
	19	13.30	H2157-ND‡	1.60	28.88	94.50	—	—	DF9-19S-1V(20)
	19	13.30	H10402CT-ND◆	1.71	30.94	101.25	H10402TR-ND◆	599.00	DF9-19S-1V(32)
	21	14.30	H2158-ND‡	1.71	30.94	101.25	—	—	DF9-21S-1V(20)
	21	14.30	H10403CT-ND◆	1.79	32.31	105.75	H10403TR-ND◆	625.00	DF9-21S-1V(32)
	23	15.30	H10404CT-ND◆	1.76	33.75	108.00	H10404TR-ND◆	718.00	DF9-23S-1V(32)
	25	16.30	H2160-ND‡	1.86	33.69	110.25	—	—	DF9-25S-1V(20)
	25	16.30	H10405CT-ND◆	1.72	33.13	106.00	H10405TR-ND◆	705.00	DF9-25S-1V(32)
	31	19.30	H10406CT-ND◆	1.98	38.13	122.00	H10406TR-ND◆	811.00	DF9-31S-1V(32)
	41	24.30	H10407CT-ND◆	2.34	45.00	144.00	H10407TR-ND◆	958.00	DF9-41S-1V(32)
	51	29.30	H10408CT-ND◆	3.16	61.31	196.20	H10408TR-ND◆	1417.00	DF9-51S-1V(69)
Receptacles without Metal Fitting and with Guideposts — RoHS Compliant									
1	9	8.30	H10369CT-ND	1.14	20.63	67.50	H10369TR-ND	399.00	DF9A-9S-1V(22)
	11	9.30	H10370CT-ND	1.22	22.00	72.00	H10370TR-ND	426.00	DF9A-11S-1V(22)
	13	10.30	H1639-ND‡	1.14	20.63	67.50	—	—	DF9A-13S-1V(20)
	13	10.30	H10371CT-ND	1.33	24.06	78.75	H10371TR-ND	466.00	DF9A-13S-1V(22)
	15	11.30	H1640-ND‡	1.25	22.69	74.25	—	—	DF9A-15S-1V(20)
	15	11.30	H10372CT-ND	1.48	26.81	87.75	H10372TR-ND	519.00	DF9A-15S-1V(22)
	17	12.30	H10373CT-ND	1.61	29.08	95.18	H10373TR-ND	563.00	DF9A-17S-1V(22)
	19	13.30	H1642-ND‡	1.44	26.13	85.50	—	—	DF9A-19S-1V(20)
	19	13.30	H10374CT-ND	1.67	30.25	99.00	H10374TR-ND	585.00	DF9A-19S-1V(22)
	21	14.3	H1643-ND‡	1.48	26.81	87.75	—	—	DF9A-21S-1V(20)
	21	14.30	H10375CT-ND	1.75	31.63	103.50	H10375TR-ND	612.00	DF9A-21S-1V(22)
	23	15.30	H1644-ND‡	1.60	28.88	94.50	—	—	DF9A-23S-1V(20)
	23	15.30	H10376CT-ND	1.67	32.13	102.80	H10376TR-ND	684.00	DF9A-23S-1V(22)
	25	16.30	H1645-ND‡	1.67	30.25	99.00	—	—	DF9A-25S-1V(20)
	25	16.30	H10377CT-ND	1.66	31.88	102.00	H10377TR-ND	678.00	DF9A-25S-1V(22)
	31	19.30	H10378CT-ND	1.92	36.88	118.00	H10378TR-ND	785.00	DF9A-31S-1V(22)
	41	24.30	H10379CT-ND	2.41	46.25	148.00	H10379TR-ND	984.00	DF9A-41S-1V(22)
	51	29.30	H10380CT-ND	3.16	61.31	196.20	H10380TR-ND	1417.00	DF9A-51S-1V(69)
Receptacles with Metal Fitting and without Guideposts									
1	11	9.30	H10388CT-ND◆	1.29	23.38	76.50	H10388TR-ND◆	452.00	DF9B-11S-1V(32)
	13	10.30	H1657-ND‡	1.25	22.69	74.25	—	—	DF9B-13S-1V(20)
	13	10.30	H10389CT-ND◆	1.52	27.50	90.00	H10389TR-ND◆	532.00	DF9B-13S-1V(32)
	15	11.30	H1658-ND‡	1.44	26.13	85.50	—	—	DF9B-15S-1V(20)
	15	11.30	H10390CT-ND◆	1.56	28.19	92.25	H10390TR-ND◆	545.00	DF9B-15S-1V(32)
	21	14.30	H1659-ND‡	1.71	30.94	101.25	—	—	DF9B-21S-1V(20)
	21	14.30	H10391CT-ND◆	1.79	32.31	105.75	H10391TR-ND◆	625.00	DF9B-21S-1V(32)
	23	15.30	H10392CT-ND◆	1.86	33.69	110.25	H10392TR-ND◆	652.00	DF9B-23S-1V(32)
	25	16.30	H1661-ND‡	1.86	33.69	110.25	—	—	DF9B-25S-1V(20)
	25	16.30	H10393CT-ND◆	1.72	33.13	106.00	H10393TR-ND◆	705.00	DF9B-25S-1V(32)
	31	19.30	H10394CT-ND◆	1.98	38.13	122.00	H10394TR-ND◆	811.00	DF9B-31S-1V(32)
	41	24.30	H10395CT-ND◆	2.34	45.00	144.00	H10395TR-ND◆	958.00	DF9B-41S-1V(32)
	51	29.30	H10396CT-ND◆	3.13	60.75	194.40	H10396TR-ND◆	1404.00	DF9B-51S-1V(69)

Fig.	No. of Pins	Dim. A (mm)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Hirose Part No.†
Headers									
Headers with Metal Fitting and Guideposts									
2	9	8.30	H10409CT-ND◆	1.22	22.00	72.00	H10409TR-ND◆	426.00	DF9-9P-1V(32)
	11	9.30	H10410CT-ND◆	1.29	23.38	76.50	H10410TR-ND◆	452.00	DF9-11P-1V(32)
	13	10.30	H2166-ND‡	1.25	22.69	74.25	—	—	DF9-13P-1V(20)
	13	10.30	H10411CT-ND◆	1.37	24.75	81.00	H10411TR-ND◆	479.00	DF9-13P-1V(32)
	15	11.30	H10412CT-ND◆	1.56	28.19	92.25	H10412TR-ND◆	545.00	DF9-15P-1V(32)
	17	12.30	H10413CT-ND◆	1.67	30.25	99.00	H10413TR-ND◆	585.00	DF9-17P-1V(32)
	19	13.30	H2169-ND‡	1.56	28.19	92.25	—	—	DF9-19P-1V(20)
	19	13.30	H10414CT-ND◆	1.71	30.94	101.25	H10414TR-ND◆	599.00	DF9-19P-1V(32)
	21	14.30	H2170-ND‡	1.67	30.25	99.00	—	—	DF9-21P-1V(20)
	21	14.30	H10415CT-ND◆	1.79	32.31	105.75	H10415TR-ND◆	625.00	DF9-21P-1V(32)
	23	15.30	H2171-ND‡	1.71	30.94	101.25	—	—	DF9-23P-1V(20)
	23	15.30	H10416CT-ND◆	1.79	32.31	105.75	H10416TR-ND◆	625.00	DF9-23P-1V(32)
	25	16.30	H10417CT-ND◆	1.69	32.50	104.00	H10417TR-ND◆	692.00	DF9-25P-1V(32)
	31	19.30	H10418CT-ND◆	1.95	37.50	120.00	H10418TR-ND◆	798.00	DF9-31P-1V(32)
	41	24.30	H10419CT-ND◆	2.31	44.38	142.00	H10419TR-ND◆	944.00	DF9-41P-1V(32)
	51	29.30	H10420CT-ND◆	3.39	65.81	210.60	H10420TR-ND◆	1521.00	DF9-51P-1V(69)
Headers without Metal Fitting and with Guideposts									
2	9	8.30	H10357CT-ND◆	1.14	20.63	67.50	H10357TR-ND◆	399.00	DF9A-9P-1V(22)
	11	9.30	H10358CT-ND◆	1.22	22.00	72.00	H10358TR-ND◆	426.00	DF9A-11P-1V(22)
	13	10.30	H1627-ND◆‡	1.10	19.94	65.25	—	—	DF9A-13P-1V(20)
	13	10.30	H10359CT-ND◆	1.33	24.06	78.75	H10359TR-ND◆	466.00	DF9A-13P-1V(22)
	15	11.30	H1628-ND◆‡	1.25	22.69	74.25	—	—	DF9A-15P-1V(20)
	15	11.30	H10360CT-ND◆	1.48	26.81	87.75	H10360TR-ND◆	519.00	DF9A-15P-1V(22)
	17	12.30	H10361CT-ND◆	1.60	28.88	94.50	H10361TR-ND◆	559.00	DF9A-17P-1V(22)
	19	13.30	H10362CT-ND◆	1.67	30.25	99.00	H10362TR-ND◆	585.00	DF9A-19P-1V(22)
	21	14.30	H10363CT-ND◆	1.75	31.63	103.50	H10363TR-ND◆	612.00	DF9A-21P-1V(22)
	23	15.30	H1632-ND◆‡	1.56	28.19	92.25	—	—	DF9A-23P-1V(20)
	23	15.30	H10364CT-ND◆	1.72	31.08	101.70	H10364TR-ND◆	601.00	DF9A-23P-1V(22)
	25	16.30	H10365CT-ND◆	1.83	33.07	108.23	H10365TR-ND◆	665.00	DF9A-25P-1V(22)
	31	19.30	H10366CT-ND◆	1.89	36.25	116.00	H10366TR-ND◆	771.00	DF9A-31P-1V(22)
	41	24.30	H10367CT-ND◆	2.37	45.63	146.00	H10367TR-ND◆	971.00	DF9A-41P-1V(22)
	51	29.30	H10368CT-ND◆	3.51	68.06	217.80	H10368TR-ND◆	1573.00	DF9A-51P-1V(69)
Headers with Metal Fitting and without Guideposts									
2	11	9.30	H1649-ND‡	1.14	20.63	67.50	—	—	DF9B-11P-1V(20)
	11	9.30	H10381CT-ND◆	1.29	23.38	76.50	H10381TR-ND◆	452.00	DF9B-11P-1V(32)
	13	10.30	H1650-ND‡	1.22	22.00	72.00	—	—	DF9B-13P-1V(20)
	13	10.30	H10382CT-ND◆	1.52	27.50	90.00	H10382TR-ND◆	532.00	DF9B-13P-1V(32)
	15	11.30	H1651-ND‡	1.44	26.13	85.50	—	—	DF9B-15P-1V(20)
	15	11.30	H10383CT-ND◆	1.56	28.19	92.25	H10383TR-ND◆	545.00	DF9B-15P-1V(32)
	21	14.30	H1652-ND‡	1.67	30.25	99.00	—	—	DF9B-21P-1V(20)
	21	14.30	H10384CT-ND◆	1.69	32.50	104.00	H10384TR-ND◆	692.00	DF9B-21P-1V(32)
	25	16.30	H1653-ND‡	1.82	33.00	108.00	—	—	DF9B-25P-1V(20)
	25	16.30	H10385CT-ND◆	1.86	33.69	110.25	H10385TR-ND◆	652.00	DF9B-25P-1V(32)
	31	19.30	H10386CT-ND◆	1.95	37.50	120.00	H10386TR-ND◆	798.00	DF9B-31P-1V(32)
	41	24.30	H10387CT-ND◆	2.31	44.38	142.00	H10387TR-ND◆	944.00	DF9B-41P-1V(32)

◆ ***RoHS Compliant*** † (20), (22) and (32) indicates tin plating; (54) and (69) indicates gold plating. ‡ Tube

DF9 Flex Assemblies

(Standard Interface Connector Complying with VESA FPDI-1)

Features: These comply with the Standard Connector Specifications selected by the U.S. Video Electronics Standards Association as a Flat Panel Display Interface.

Applications: Liquid Crystal Displays, Portable Terminals and Personal Computers

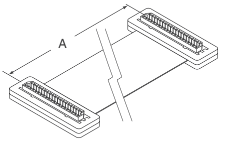

No. of Positions	Height (mm)	Dimension (mm) A	Digi-Key Part No.	Price Each 1	10	100	Parlex Part No.
31	5.08	51	PS563AB0051S-ND	45.00	30.00	18.75	PS563-AB-0051-S
		102	PS563AB0102S-ND	45.00	30.00	18.75	PS563-AB-0102-S
		152	PS563AB0152S-ND	45.00	30.00	18.75	PS563-AB-0152-S
		203	PS563AB0203S-ND	45.00	30.00	18.75	PS563-AB-0203-S
		254	PS563AB0254S-ND	45.00	30.00	18.75	PS563-AB-0254-S
		305	PS563AB0305S-ND	45.00	30.00	18.75	PS563-AB-0305-S
41	5.08	51	PS564AB0051S-ND	45.00	30.00	18.75	PS564-AB-0051-S
		102	PS564AB0102S-ND	45.00	30.00	18.75	PS564-AB-0102-S
		152	PS564AB0152S-ND	45.00	30.00	18.75	PS564-AB-0152-S
		203	PS564AB0203S-ND	45.00	30.00	18.75	PS564-AB-0203-S
		254	PS564AB0254S-ND	45.00	30.00	18.75	PS564-AB-0254-S
		305	PS564AB0305S-ND	45.00	30.00	18.75	PS564-AB-0305-S

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO.,LTD.

FX2 Series - Connectors 1.27mm Pitch

FX2 Series is a 1.27mm mil spacing, 2 piece connector for use in board-to-board application • High performance PPS resin insulator is compatible to VPS, IR and hot air reflow • Gull wing-shaped lead is used for ease of checking soldered connection • Use of positioning boss for substrate packaging offers improved handling capability • Solder-fixing reinforcement bracket, which disperses inserting/extracting stress, is available for optional specification.

Electrical: • Rated Current: 0.5A • Rated Voltage: 125VAC • Insulation Resistance: More than 100MΩ at 250VDC • Withstanding Voltage: 300VAC • Contact Resistance: Less than 45mΩ at 100mA DC • Durability: 500 times mating cycles.

Insulator Material and Finish: • Dip Type: Black polyimide resin, UL94V-0 • SMT Type: Light Brown PPS resin, UL94V-0 • Socket: Black PBT resin and polyimide resin, UL94V-0.

Contact Material and Finish: • Receptacle and Socket: Phosphor bronze with selective gold plating • Header: Phosphor bronze or brass with selective gold plating.

Fig. 1

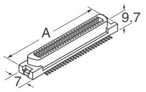

Fig. 2

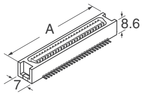

Fig. 3

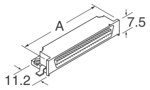

Fig. 4

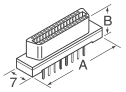

Fig. 5

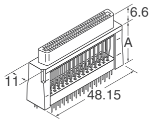

Fig. 6

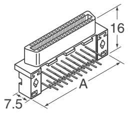

Fig. 7

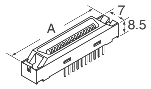

Fig. 8

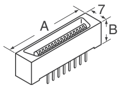

Fig. 9

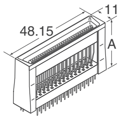

Fig. 10

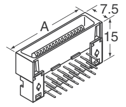

Fig. 11

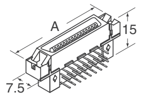

Fig. 12

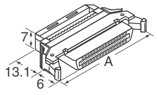

Fig. 13

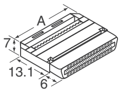

Fig.	No. of Pins	Dimension (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Straight Type Receptacle (SMT)								
1	100	73.55	—	H4324-ND	6.79	137.03	430.65	FX2-100S-1.27SV
RoHS Compliant								
1	20	22.75	—	H10529-ND	3.94	76.50	244.80	FX2-20S-1.27SV(71)
	32	30.37	—	H10530-ND	4.58	88.88	284.40	FX2-32S-1.27SV(71)
	40	35.45	—	H10531-ND	5.02	97.31	311.40	FX2-40S-1.27SV(71)
	52	43.07	—	H10532-ND	5.68	110.25	352.80	FX2-52S-1.27SV(71)
	60	48.15	—	H10533-ND	6.12	118.69	379.80	FX2-60S-1.27SV(71)
	68	53.23	—	H10534-ND	6.55	127.13	406.80	FX2-68S-1.27SV(71)
	80	60.85	—	H10535-ND	6.99	135.56	433.80	FX2-80S-1.27SV(71)
	100	73.55	—	H10536-ND	7.05	142.28	447.15	FX2-100S-1.27SV(71)
	120	86.25	—	H10537-ND	8.03	162.23	509.85	FX2-120S-1.27SV(71)
Straight Header (SMT)								
2	68	53.23	—	H4319-ND	6.32	122.63	392.40	FX2-68P-1.27SV
	80	60.85	—	H2257-ND	6.96	135.00	432.00	FX2-80P-1.27SV
RoHS Compliant								
2	20	22.75	—	H10520-ND	3.94	76.50	244.80	FX2-20P-1.27SV(71)
	32	30.37	—	H10521-ND	4.58	88.88	284.40	FX2-32P-1.27SV(71)
	40	35.45	—	H10522-ND	5.02	97.31	311.40	FX2-40P-1.27SV(71)
	52	43.07	—	H10523-ND	5.68	110.25	352.80	FX2-52P-1.27SV(71)
	60	48.15	—	H10524-ND	6.12	118.69	379.80	FX2-60P-1.27SV(71)
	68	53.23	—	H10525-ND	6.55	127.13	406.80	FX2-68P-1.27SV(71)
	80	60.85	—	H10526-ND	7.22	140.06	448.20	FX2-80P-1.27SV(71)
	100	73.55	—	H10527-ND	7.25	146.48	460.35	FX2-100P-1.27SV(71)
	120	86.25	—	H10528-ND	8.22	165.90	521.40	FX2-120P-1.27SV(71)
Right Angle Header (SMT)								
3	52	43.07	—	H2245-ND	3.51	68.06	217.80	FX2-52P-0.635SH
RoHS Compliant								
3	20	22.75	—	H10646-ND	2.60	50.00	160.00	FX2-20P-0.635SH(71)
	40	35.45	—	H10647-ND	3.16	61.31	196.20	FX2-40P-0.635SH(71)
	52	43.07	—	H10648-ND	3.65	70.88	226.80	FX2-52P-0.635SH(71)
	60	48.15	—	H10649-ND	3.97	77.06	246.60	FX2-60P-0.635SH(71)
	80	60.85	—	H10650-ND	4.81	93.38	298.80	FX2-80P-0.635SH(71)
	100	73.55	—	H10651-ND	9.96	205.68	692.80	FX2-100P-0.635SH(71)
RoHS Compliant								
4	20	22.75	9.5	H10592-ND	3.31	64.13	205.20	FX2C-20S-1.27DSA(71)
	32	30.37	9.5	H10593-ND	3.86	74.81	239.40	FX2C-32S-1.27DSA(71)
	40	35.45	9.5	H10594-ND	4.26	82.69	264.60	FX2C-40S-1.27DSA(71)
	52	43.07	9.5	H10595-ND	5.02	97.31	311.40	FX2C-52S-1.27DSA(71)
	60	48.15	9.5	H10596-ND	5.51	106.88	342.00	FX2C-60S-1.27DSA(71)
	68	53.23	9.5	H10597-ND	5.86	113.63	363.60	FX2C-68S-1.27DSA(71)
	80	60.85	9.5	H10598-ND	6.84	132.75	424.80	FX2C-80S-1.27DSA(71)
	100	73.55	9.5	H10599-ND	7.05	142.28	447.15	FX2C-100S-1.27DSA(71)
	120	86.25	9.5	H10600-ND	7.83	158.03	496.65	FX2C-120S-1.27DSA(71)
	20	22.75	11.5	H10601-ND	4.03	78.19	250.20	FX2C2-20S-1.27DSA(71)
	32	30.37	11.5	H10602-ND	4.52	87.75	280.80	FX2C2-32S-1.27DSA(71)

Fig.	No. of Pins	Dimension (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
4	40	35.45	11.5	H10603-ND	4.99	96.75	309.60	FX2C2-40S-1.27DSA(71)
	52	43.07	11.5	H10604-ND	5.68	110.25	352.80	FX2C2-52S-1.27DSA(71)
	60	48.15	11.5	H10605-ND	6.12	118.69	379.80	FX2C2-60S-1.27DSA(71)
	68	53.23	11.5	H10606-ND	6.50	126.00	403.20	FX2C2-68S-1.27DSA(71)
	80	60.85	11.5	H10607-ND	6.73	135.98	427.35	FX2C2-80S-1.27DSA(71)
	100	73.55	11.5	H10608-ND	7.62	153.83	483.45	FX2C2-100S-1.27DSA(71)
	120	86.25	11.5	H10609-ND	8.37	169.05	531.30	FX2C2-120S-1.27DSA(71)
Straight Receptacle Cleaning Type								
4	20	22.75	11.5	H4441-ND	3.89	75.38	241.20	FX2CA2-20S-1.27DSA
	32	30.37	11.5	H4442-ND	4.35	84.38	270.00	FX2CA2-32S-1.27DSA
RoHS Compliant								
4	20	22.75	9.5	H10610-ND	3.31	64.13	205.20	FX2CA-20S-1.27DSA(71)
	32	30.37	9.5	H10611-ND	3.86	74.81	239.40	FX2CA-32S-1.27DSA(71)
	40	35.45	9.5	H10612-ND	4.26	82.69	264.60	FX2CA-40S-1.27DSA(71)
	52	43.07	9.5	H10613-ND	5.02	97.31	311.40	FX2CA-52S-1.27DSA(71)
	60	48.15	9.5	H10614-ND	5.51	106.88	342.00	FX2CA-60S-1.27DSA(71)
	68	53.23	9.5	H10615-ND	5.86	113.63	363.60	FX2CA-68S-1.27DSA(71)
	80	60.85	9.5	H10616-ND	6.84	132.75	424.80	FX2CA-80S-1.27DSA(71)
	100	73.55	9.5	H10617-ND	7.05	142.28	447.15	FX2CA-100S-1.27DSA(71)
	120	86.25	9.5	H10618-ND	7.83	158.03	496.65	FX2CA-120S-1.27DSA(71)
	20	22.75	11.5	H10619-ND	4.03	78.19	250.20	FX2CA2-20S-1.27DSA(71)
	32	30.37	11.5	H10620-ND	4.52	87.75	280.80	FX2CA2-32S-1.27DSA(71)
	40	35.45	11.5	H10621-ND	4.99	96.75	309.60	FX2CA2-40S-1.27DSA(71)
	52	43.07	11.5	H10622-ND	5.68	110.25	352.80	FX2CA2-52S-1.27DSA(71)
	60	48.15	11.5	H10623-ND	6.12	118.69	379.80	FX2CA2-60S-1.27DSA(71)
	68	53.23	11.5	H10624-ND	6.50	126.00	403.20	FX2CA2-68S-1.27DSA(71)
	80	60.85	11.5	H10625-ND	6.73	135.98	427.35	FX2CA2-80S-1.27DSA(71)
	100	73.55	11.5	H10626-ND	7.62	153.83	483.45	FX2CA2-100S-1.27DSA(71)
	120	86.25	11.5	H10627-ND	8.37	169.05	531.30	FX2CA2-120S-1.27DSA(71)
Straight Receptacle - RoHS Compliant								
5	60	35.1	—	H10517-ND	7.44	150.15	471.90	FX2M6A-60S-1.27DSAL(71)
	60	19.1	—	H10519-ND	7.44	150.15	471.90	FX2M6B-60S-1.27DSAL(71)
Right Angle Receptacle								
6	52	43.07	—	H4293-ND	4.96	96.19	307.80	FX2-52S-1.27DS
RoHS Compliant								
6	20	22.75	—	H10637-ND	3.36	65.25	208.80	FX2-20S-1.27DS(71)
	32	30.37	—	H10638-ND	3.97	77.06	246.60	FX2-32S-1.27DS(71)
	40	35.45	—	H10639-ND	4.44	86.06	275.40	FX2-40S-1.27DS(71)
	52	43.07	—	H10640-ND	5.13	99.56	318.60	FX2-52S-1.27DS(71)
	60	48.15	—	H10641-ND	5.68	110.25	352.80	FX2-60S-1.27DS(71)
	68	53.23	—	H10642-ND	6.00	116.44	372.60	FX2-68S-1.27DS(71)
	80	60.85	—	H10643-ND	7.08	137.25	439.20	FX2-80S-1.27DS(71)
	100	73.55	—	H10644-ND	7.33	148.05	465.30	FX2-100S-1.27DS(71)
	120	86.25	—	H10645-ND	8.55	172.73	542.85	FX2-120S-1.27DS(71)
Straight Header No Cleaning Lock Type								
7	32	37.95	—	H4335-ND§	4.00	77.63	248.40	FX2B-32P-1.27DSA

§ Contact Material: Phosphor bronze

(Continued)

FX2 Series - Connectors 1.27mm Pitch *(Cont.)*

Fig.	No. of Pins	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
7	80	68.43	—	H4340-ND	5.42	105.19	336.60	FX2B-80PA-1.27DSA
	100	81.13	—	H4341-ND	5.97	115.88	370.80	FX2B-100PA-1.27DSA
RoHS Compliant								
7	20	30.33	—	H10500-ND	3.57	69.19	221.40	FX2B-20P-1.27DSA(71)
	32	37.95	—	H10501-ND	4.15	80.44	257.40	FX2B-32P-1.27DSA(71)
	40	43.03	—	H10502-ND	4.55	88.31	282.60	FX2B-40PA-1.27DSA(71)
	52	50.65	—	H10503-ND	4.81	93.38	298.80	FX2B-52PA-1.27DSA(71)
	60	55.73	—	H10504-ND	5.02	97.31	311.40	FX2B-60PA-1.27DSA(71)
	68	60.81	—	H10505-ND	5.34	103.50	331.20	FX2B-68PA-1.27DSA(71)
	80	68.43	—	H10506-ND	5.63	109.13	349.20	FX2B-80PA-1.27DSA(71)
	100	81.13	—	H10507-ND	6.21	120.38	385.20	FX2B-100PA-1.27DSA(71)
Straight Header Cleaning Lock Type - RoHS Compliant								
7	20	30.33	—	H10508-ND	3.57	69.19	221.40	FX2BA-20P-1.27DSA(71)
	32	37.95	—	H10509-ND	4.15	80.44	257.40	FX2BA-32P-1.27DSA(71)
	40	43.03	—	H10510-ND	4.55	88.31	282.60	FX2BA-40PA-1.27DSA(71)
	52	50.65	—	H10511-ND	4.81	93.38	298.80	FX2BA-52PA-1.27DSA(71)
	60	55.73	—	H10512-ND	5.02	97.31	311.40	FX2BA-60PA-1.27DSA(71)
	68	60.81	—	H10513-ND	5.34	103.50	331.20	FX2BA-68PA-1.27DSA(71)
	80	68.43	—	H10514-ND	5.63	109.13	349.20	FX2BA-80PA-1.27DSA(71)
	100	81.13	—	H10515-ND	6.21	120.38	385.20	FX2BA-100PA-1.27DSA(71)
Straight Header No Cleaning Type								
8	80	60.85	8.5	H4370-ND	6.35	123.19	394.20	FX2C-80P-1.27DSA
	120	86.25	8.5	H4372-ND	7.18	144.90	455.40	FX2C-120P-1.27DSA
	80	60.85	10.5	H4394-ND	6.96	135.00	432.00	FX2C2-80P-1.27DSA
RoHS Compliant								
8	20	22.75	8.5	H10538-ND	3.22	62.44	199.80	FX2C-20P-1.27DSA(71)
	32	30.37	8.5	H10539-ND	3.71	72.00	230.40	FX2C-32P-1.27DSA(71)
	40	35.45	8.5	H10540-ND	4.12	79.88	255.60	FX2C-40P-1.27DSA(71)
	52	43.07	8.5	H10541-ND	4.90	95.06	304.20	FX2C-52P-1.27DSA(71)
	60	48.15	8.5	H10542-ND	5.31	102.94	329.40	FX2C-60P-1.27DSA(71)
	68	53.23	8.5	H10543-ND	5.63	109.13	349.20	FX2C-68P-1.27DSA(71)
	80	60.85	8.5	H10544-ND	6.58	127.69	408.60	FX2C-80P-1.27DSA(71)
	100	73.55	8.5	H10545-ND	6.73	135.98	427.35	FX2C-100P-1.27DSA(71)
	120	86.25	8.5	H10546-ND	7.44	150.15	471.90	FX2C-120P-1.27DSA(71)
	20	22.75	9.5	H10547-ND	3.86	74.81	239.40	FX2C1-20P-1.27DSA(71)
	32	30.37	9.5	H10548-ND	4.35	84.38	270.00	FX2C1-32P-1.27DSA(71)
	40	35.45	9.5	H10549-ND	4.76	92.25	295.20	FX2C1-40P-1.27DSA(71)
	52	43.07	9.5	H10550-ND	5.51	106.88	342.00	FX2C1-52P-1.27DSA(71)
	60	48.15	9.5	H10551-ND	5.97	115.88	370.80	FX2C1-60P-1.27DSA(71)
	68	53.23	9.5	H10552-ND	6.26	121.50	388.80	FX2C1-68P-1.27DSA(71)
	80	60.85	9.5	H10553-ND	7.22	140.06	448.20	FX2C1-80P-1.27DSA(71)
	100	73.55	9.5	H10554-ND	7.33	148.05	465.30	FX2C1-100P-1.27DSA(71)
	120	86.25	9.5	H10555-ND	7.98	161.18	506.55	FX2C1-120P-1.27DSA(71)
	20	22.75	10.5	H10556-ND	3.86	74.81	239.40	FX2C2-20P-1.27DSA(71)
	32	30.37	10.5	H10557-ND	4.35	84.38	270.00	FX2C2-32P-1.27DSA(71)
	40	35.45	10.5	H10558-ND	4.76	92.25	295.20	FX2C2-40P-1.27DSA(71)
	52	43.07	10.5	H10559-ND	5.51	106.88	342.00	FX2C2-52P-1.27DSA(71)
	60	48.15	10.5	H10560-ND	5.97	115.88	370.80	FX2C2-60P-1.27DSA(71)
	68	53.23	10.5	H10561-ND	6.35	123.19	394.20	FX2C2-68P-1.27DSA(71)
	80	60.85	10.5	H10562-ND	7.22	140.06	448.20	FX2C2-80P-1.27DSA(71)
	100	73.55	10.5	H10563-ND	7.33	148.05	465.30	FX2C2-100P-1.27DSA(71)
	120	86.25	10.5	H10564-ND	8.03	162.23	509.85	FX2C2-120P-1.27DSA(71)
Straight Header Cleaning Type								
8	40	35.45	8.5	H4408-ND	3.97	77.06	246.60	FX2CA-40P-1.27DSA
	52	43.07	8.5	H4409-ND	4.64	90.00	288.00	FX2CA-52P-1.27DSA
	80	60.85	8.5	H4412-ND	6.35	123.19	394.20	FX2CA-80P-1.27DSA
	100	73.55	8.5	H4413-ND	6.50	131.25	412.50	FX2CA-100P-1.27DSA
	32	30.37	9.5	H4416-ND	4.18	81.00	259.20	FX2CA1-32P-1.27DSA
	120	86.25	9.5	H4423-ND	7.70	155.40	488.40	FX2CA1-120P-1.27DSA
	32	30.37	10.5	H4433-ND	4.18	81.00	259.20	FX2CA2-32P-1.27DSA
	40	35.45	10.5	H4434-ND	4.58	88.88	284.40	FX2CA2-40P-1.27DSA
	120	86.25	10.5	H4440-ND	7.75	156.45	491.70	FX2CA2-120P-1.27DSA
RoHS Compliant								
8	20	22.75	8.5	H10565-ND	3.22	62.44	199.80	FX2CA-20P-1.27DSA(71)
	32	30.37	8.5	H10566-ND	3.71	72.00	230.40	FX2CA-32P-1.27DSA(71)
	40	35.45	8.5	H10567-ND	4.12	79.88	255.60	FX2CA-40P-1.27DSA(71)
	52	43.07	8.5	H10568-ND	4.81	93.38	298.80	FX2CA-52P-1.27DSA(71)
	60	48.15	8.5	H10569-ND	5.31	102.94	329.40	FX2CA-60P-1.27DSA(71)
	68	53.23	8.5	H10570-ND	5.63	109.13	349.20	FX2CA-68P-1.27DSA(71)
	80	60.85	8.5	H10571-ND	6.58	127.69	408.60	FX2CA-80P-1.27DSA(71)
8	100	73.55	8.5	H10572-ND	6.73	135.98	427.35	FX2CA-100P-1.27DSA(71)
	120	86.25	8.5	H10573-ND	7.44	150.15	471.90	FX2CA-120P-1.27DSA(71)
	20	22.75	9.5	H10574-ND	3.86	74.81	239.40	FX2CA1-20P-1.27DSA(71)
	32	30.37	9.5	H10575-ND	4.35	84.38	270.00	FX2CA1-32P-1.27DSA(71)
	40	35.45	9.5	H10576-ND	4.76	92.25	295.20	FX2CA1-40P-1.27DSA(71)
	52	43.07	9.5	H10577-ND	5.51	106.88	342.00	FX2CA1-52P-1.27DSA(71)
	60	48.15	9.5	H10578-ND	5.97	115.88	370.80	FX2CA1-60P-1.27DSA(71)
	68	53.23	9.5	H10579-ND	6.26	121.50	388.80	FX2CA1-68P-1.27DSA(71)
	80	60.85	9.5	H10580-ND	7.22	140.06	448.20	FX2CA1-80P-1.27DSA(71)
	100	73.55	9.5	H10581-ND	7.33	148.05	465.30	FX2CA1-100P-1.27DSA(71)
	120	86.25	9.5	H10582-ND	7.98	161.18	506.55	FX2CA1-120P-1.27DSA(71)
	20	22.75	10.5	H10583-ND	3.86	74.81	239.40	FX2CA2-20P-1.27DSA(71)
	32	30.37	10.5	H10584-ND	4.35	84.38	270.00	FX2CA2-32P-1.27DSA(71)
	40	35.45	10.5	H10585-ND	4.76	92.25	295.20	FX2CA2-40P-1.27DSA(71)
	52	43.07	10.5	H10586-ND	5.51	106.88	342.00	FX2CA2-52P-1.27DSA(71)
	60	48.15	10.5	H10587-ND	5.97	115.88	370.80	FX2CA2-60P-1.27DSA(71)
	68	53.23	10.5	H10588-ND	6.35	123.19	394.20	FX2CA2-68P-1.27DSA(71)
	80	60.85	10.5	H10589-ND	7.22	140.06	448.20	FX2CA2-80P-1.27DSA(71)
	100	73.55	10.5	H10590-ND	7.33	148.05	465.30	FX2CA2-100P-1.27DSA(71)
	120	86.25	10.5	H10591-ND	8.03	162.23	509.85	FX2CA2-120P-1.27DSA(71)
Straight Header - RoHS Compliant								
9	60	30.9	—	H10516-ND	7.25	146.48	460.35	FX2M6A-60P-1.27DSAL(71)
	60	24.9	—	H10518-ND	7.25	146.48	460.35	FX2M6B-60P-1.27DSAL(71)
Right Angle Header								
10	40	35.45	—	H4291-ND	4.09	79.31	253.80	FX2-40P-1.27DS
	60	48.15	—	H4308-ND	5.34	103.50	331.20	FX2-60P-1.27DS
RoHS Compliant								
10	20	22.75	—	H10628-ND	3.28	63.56	203.40	FX2-20P-1.27DS(71)
	32	30.37	—	H10629-ND	3.80	73.69	235.80	FX2-32P-1.27DS(71)
	40	35.45	—	H10630-ND	4.23	82.13	262.80	FX2-40P-1.27DS(71)
	52	43.07	—	H10631-ND	5.02	97.31	311.40	FX2-52P-1.27DS(71)
	60	48.15	—	H10632-ND	5.54	107.44	343.80	FX2-60P-1.27DS(71)
	68	53.23	—	H10633-ND	5.92	114.75	367.20	FX2-68P-1.27DS(71)
	80	60.85	—	H10634-ND	6.96	135.00	432.00	FX2-80P-1.27DS(71)
	100	73.55	—	H10635-ND	7.10	143.33	450.45	FX2-100P-1.27DS(71)
	120	86.25	—	H10636-ND	8.29	167.48	526.35	FX2-120P-1.27DS(71)
Right Angle Header Lock Type								
11	60	55.73	—	H4330-ND	5.31	102.94	329.40	FX2B-60PA-1.27DS
	80	68.43	—	H4332-ND	5.89	114.19	365.40	FX2B-80PA-1.27DS
RoHS Compliant								
11	20	30.33	—	H10492-ND	3.80	73.69	235.80	FX2B-20PA-1.27DS(71)
	32	37.95	—	H10493-ND	4.12	79.88	255.60	FX2B-32PA-1.27DS(71)
	40	43.03	—	H10494-ND	4.93	95.63	306.00	FX2B-40PA-1.27DS(71)
	52	50.65	—	H10495-ND	5.22	101.25	324.00	FX2B-52PA-1.27DS(71)
	60	55.73	—	H10496-ND	5.51	106.88	342.00	FX2B-60PA-1.27DS(71)
	68	60.81	—	H10497-ND	5.71	110.81	354.60	FX2B-68PA-1.27DS(71)
	80	68.43	—	H10498-ND	6.12	118.69	379.80	FX2B-80PA-1.27DS(71)
	100	81.13	—	H10499-ND	6.64	128.81	412.20	FX2B-100PA-1.27DS(71)
Socket Lock Cable Type (4 pieces per part) - RoHS Compliant								
12	20	27.83	—	H4342-ND	7.18	144.90	455.40	FX2B-20SA-1.27R
	32	35.45	—	H4343-ND	7.67	154.88	486.75	FX2B-32SA-1.27R
	40	40.53	—	H4344-ND	8.55	172.73	542.85	FX2B-40SA-1.27R
	52	48.15	—	H4345-ND	8.76	176.93	556.05	FX2B-52SA-1.27R
	60	53.23	—	H4346-ND	8.35	172.43	580.80	FX2B-60SA-1.27R
	68	58.31	—	H4296-ND	8.63	178.13	600.00	FX2B-68SA-1.27R
	80	65.93	—	H4347-ND	8.90	183.83	619.20	FX2B-80SA-1.27R
	100	78.63	—	H4348-ND	9.48	195.70	659.20	FX2B-100SA-1.27R
Socket Unlock Cable Type - RoHS Compliant								
13	20	18.05	—	H4349-ND	6.50	126.00	403.20	FX2BA-20SA-1.27R
	32	25.67	—	H4350-ND	7.08	137.25	439.20	FX2BA-32SA-1.27R
	40	30.75	—	H4351-ND	7.25	146.48	460.35	FX2BA-40SA-1.27R
	52	38.37	—	H4352-ND	7.46	150.68	473.55	FX2BA-52SA-1.27R
	60	43.45	—	H4353-ND	8.14	164.33	516.45	FX2BA-60SA-1.27R
	68	48.53	—	H4354-ND	8.45	170.63	536.25	FX2BA-68SA-1.27R
	80	56.15	—	H4297-ND	8.76	176.93	556.05	FX2BA-80SA-1.27R
	100	68.85	—	H4355-ND	8.35	172.43	580.80	FX2BA-100SA-1.27R
Tools								
Guide Plate				H4356-ND			3510.00/1	FX2B(A)-GPA
Connection Press................				H4357-ND			915.20/1	HIFLEX CONNECTING PRESS HHP502

§ Contact Material: Phosphor bronze

HIROSE ELECTRIC CO.,LTD.

FX15 Series Connectors

1mm Pitch

RoHS COMPLIANT

Digi-Reel®

Features: • Small and space saving design. Double-row contact arrangement at mating face. Single-row SMT lead design. • Equal length transmission lines. • Enhanced grounding and robust design by metal shell • Large guide posts facilitate mating operation • Side lock design enables user-friendly operation **Applications:** • LCD TV, LCD panel, PDP, digital devices **Specifications:** • Current Rating: 0.5A • Contact Mating Area: Gold plating • Contact Spacing: 1mm • Operating Temperature Range: -40°C ~ 85°C • UL94V-0

Fig. 1

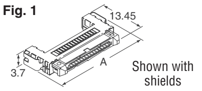

Fig. 2

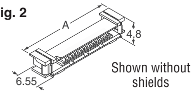

Fig. 3

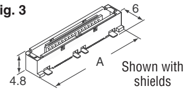

Fig.	No. of Pins	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel◊ Qty.	Pricing	Hirose Part No.
Plug									
1	21	24.8	H11434-ND	.84	.61	.50	—	—	FX15M-21P-C
	31	29.8	H11436-ND	.99	.72	.59	—	—	FX15M-31P-C
	31	27	H11425-ND†	2.31	1.78	1.42	—	—	FX15-31P-C
	31	27	H11428-ND†	2.21	1.70	1.36	—	—	FX15S-31P-C
	41	32	H11430-ND†	2.37	1.83	1.46	—	—	FX15S-41P-C
	51	37	H11432-ND†	2.50	1.93	1.54	—	—	FX15S-51P-C
Receptacle – Right Angle									
2	21	22.4	H11435CT-ND	1.86	1.35	1.11	1,000	652.00	FX15M-21S-0.5SH
	31	27.4	H11427CT-ND	1.92	1.48	1.18	1,000	785.00	FX15M-31S-0.5SH
	31	27.4	H11429CT-ND†	2.57	1.98	1.58	1,000	1051.00	FX15S-31S-0.5SH
	41	32.4	H11431CT-ND†	2.86	2.20	1.76	1,000	1170.00	FX15S-41S-0.5SH
	51	37.4	H11433CT-ND†	3.19	2.45	1.96	1,000	1303.00	FX15S-51S-0.5SH
Receptacle – Vertical									
3	31	25.7	H11426CT-ND†	2.76	2.13	1.70	1,000	1131.00	FX15-31S-0.5SV
Plug Crimp Contacts									
30-32AWG Gold Plating			H11424CT-ND	—	—	.07	20,000	27.00/M	FX15-3032PCFA

◊ For Tape and Reel part numbers, change CT-ND to TR-ND. † With shields

DF19 Series Connectors 1mm Pitch

Digi-Reel®

Features: • Ultra Low Profile; FPC type: Maximum 1.7mm thick; Discrete wire and coaxial 1.5mm thick **Applications:** • LCD's, notebook personal computers, small OA machines, and small consumer products **Specifications:** • Current Rating: AWG#28: 1A, AWG#30: 0.9A, AWG#32: 0.8A, FPC: 0.5A • Voltage Rating: AC100V • Operating Temperature: -35°C ~ 85°C • Operating Humidity Range: 20% ~ 80% • Insulation Resistance: 500MΩ or more • Voltage Proof: No flashover or breakdown • Contact Resistance: 30mΩ or less (50mΩ or less for FPC) **Material:** *• Pin Header:* Insulation: Polyamide resin, beige, UL94V-0; Terminal: Phosphor bronze, gold plated; Ground Plate: Phosphor bronze, tin-copper plated *• Socket:* Insulation: Polyamide resin, beige; Ground Plate: Stainless steel tin-copper plated *• Crimp Contact:* Terminal: Phosphor bronze, gold plated *• FPC Socket:* Insulation: Polyamide resin, beige, UL94V-0; Terminal: Phosphor bronze, gold plated *• Ground Plate for FPC:* Stainless steel, tin-copper plated *• Socket for micro-coaxial cables:* Insulation: LCP resin, beige, UL94V-0; Terminal: Phosphor bronze, gold plated; Ground Plate: Phosphor bronze, tin plated *• Ground plate for micro-coaxial cables:* Phosphor bronze, tin plated • Recommended Wire: UL1571 • Tinning is Whisker free

Fig. 1

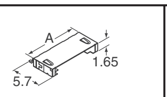

Fig. 2

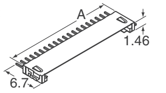

Fig. 3

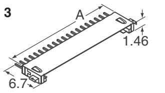

Fig. 4

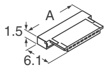

Fig. 5

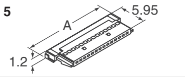

Fig. 6

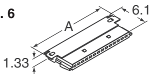

Fig.	No. of Pins	Dim. A (mm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	T & R◊ Pricing 1,000	Hirose Part No.
Right Angle Pin Header SMT On-Board Type								
1	8	11.55	H3119CT-ND	4.21	34.80	261.00	1885.00	DF19G-8P-1H(59)
RoHS Compliant								
1	8	11.55	H10745CT-ND	4.38	36.24	271.80	1963.00	DF19G-8P-1H(56)
	14	17.55	H10746CT-ND	4.64	38.40	288.00	2080.00	DF19G-14P-1H(56)
	20	23.55	H10747CT-ND	5.77	47.76	358.20	2587.00	DF19G-20P-1H(56)
	30	33.55	H10748CT-ND	6.79	56.16	421.20	3042.00	DF19G-30P-1H(56)
Right Angle Pin Header SMT Offset Type								
2	20	23.55	H3125CT-ND	5.57	46.08	345.60	—	DF19K-20P-1H(59)
	30	33.55	H3126CT-ND	6.55	54.24	406.80	—	DF19K-30P-1H(59)
	14	17.55	H3153CT-ND	4.99	41.28	309.60	2236.00	DF19L-14P-1H(59)
	20	23.55	H3129CT-ND	5.57	46.08	345.60	—	DF19L-20P-1H(59)
	30	33.55	H3130CT-ND	6.55	54.24	406.80	—	DF19L-30P-1H(59)
RoHS Compliant								
2	20	23.55	H10749CT-ND	5.77	47.76	358.20	2587.00	DF19K-20P-1H(56)
	30	33.55	H10750CT-ND	6.79	56.16	421.20	3042.00	DF19K-30P-1H(56)
	14	17.55	H10751CT-ND	5.19	42.96	322.20	2327.00	DF19L-14P-1H(56)
	20	23.55	H10752CT-ND	5.77	47.76	358.20	2587.00	DF19L-20P-1H(56)
	30	33.55	H10753CT-ND	6.79	56.16	421.20	3042.00	DF19L-30P-1H(56)
Right Angle Pin Header SMT Reverse Offset Type								
3	14	17.55	H3127CT-ND	4.99	41.28	309.60	—	DF19KR-14P-1H(59)
	20	23.55	H3128CT-ND	5.57	46.08	345.60	—	DF19KR-20P-1H(59)
RoHS Compliant								
3	14	17.55	H10754CT-ND	5.19	42.96	322.20	2327.00	DF19KR-14P-1H(56)
	20	23.55	H10755CT-ND	5.77	47.76	358.20	2587.00	DF19KR-20P-1H(56)
Single Row Socket Discrete Wire								
4	14	17.50	H3106-ND	1.11	9.02	65.48	—	DF19G-14S-1C
	20	23.50	H3107-ND	1.43	11.63	84.38	—	DF19G-20S-1C
RoHS Compliant								
4	8	11.50	H3101-ND	.53	3.31	19.00	—	DF19-8S-1C
	8	11.50	H10756-ND	.91	7.44	54.00	—	DF19G-8S-1C(05)
	14	17.50	H3102-ND	.55	3.82	25.62	—	DF19-14S-1C
	14	17.50	H10757-ND	1.18	9.61	69.75	—	DF19G-14S-1C(05)
	20	23.50	H3103-ND	.58	4.74	34.43	—	DF19-20S-1C
	20	23.50	H10758-ND	1.48	12.09	87.75	—	DF19G-20S-1C(05)
4	30	33.50	H3104-ND	.84	6.82	49.50	—	DF19-30S-1C
	30	33.50	H10759-ND	1.66	13.77	102.00	—	DF19G-30S-1C(05)
Single Row Socket for FPC Cable - RoHS Compliant								
5	14	17.50	H10760-ND	1.72	14.31	106.00	—	DF19G-14S-1F(05)
	20	23.50	H10761-ND	2.18	18.09	134.00	—	DF19G-20S-1F(05)
	30	33.50	H10762-ND	2.67	22.14	164.00	—	DF19G-30S-1F(05)
Single Row Socket Fine Coaxial Cable								
6	14	17.50	H3115-ND	2.02	16.74	124.00	—	DF19G-14S-1SD
RoHS Compliant								
6	14	17.50	H10763-ND	2.11	17.55	130.00	—	DF19G-14S-1SD(05)
	20	23.50	H10764-ND	2.50	20.79	154.00	—	DF19G-20S-1SD(05)

◊ For Tape and Reel part number, change CT-ND to TR-ND.

Ground Plates

No. of Pins	Digi-Key Part No.	Pricing 1	10	100	Hirose Part No.
Ground Plate for FPC Type - RoHS Compliant					
14	H10765-ND	.72	5.89	42.75	DF19G-14S-1F-GND(05)
20	H10766-ND	.76	6.20	45.00	DF19G-20S-1F-GND(05)
30	H10767-ND	.76	6.20	45.00	DF19G-30S-1F-GND(05)
Ground Plate for Coaxial Type - RoHS Compliant					
14	H3117-ND	.55	3.82	25.62	DF19G-14S-1SD-GND
20	H3118-ND	.64	4.48	30.08	DF19G-20S-1SD-GND

Socket Crimping Contacts

Description	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	T & R Pricing 10,000	Hirose Part No.
DF19 Series – RoHS Compliant							
28-30AWG Gold Plating	H3151CT-ND	7.13	24.15	36.80	H3151TR-ND	29.00/M	DF19-2830SCFA
30-32AWG Gold Plating	H3132CT-ND	7.13	24.15	36.80	H3132TR-ND	29.00/M	DF19-3032SCFA
Tools							
Manual Crimper for DF19 Series	H3131-ND			1327.30/1			HT302/DF19S
Desk-Top Tool (for 14 core wires)	H3122-ND			2414.10/1			DF19G-14S/PR-MD2
Desk-Top Tool (for 20 core wires)	H3123-ND			2468.70/1			DF19G-20S/PR-MD2
Desk-Top Tool (for 30 core wires)	H3124-ND			2928.90/1			DF19G-30S/PR-MD2

DF20 Series Connectors

1mm Pitch

Digi-Reel®

Features: • Contact pitch: 1mm allows reliable solder and cable termination • Low Profile: Total mating height above the board is 5.8mm for the straight type and 5.5mm for right angle type **Applications:** Notebook PC, small office automation equipment, small consumer devices, portable devices. Any application requiring low profile reliable board-to-cable connection with a AWG# 28, AWG# 30, AWG# 32 conductors **Specifications:** • Current Rating: AWG#28: 1A, AWG#30: 0.9A, AWG#32: 0.7A • Voltage Rating: AC100V • Operating Temperature: -35°C ~ 85°C • Humidity Range: 20% ~ 80% • Insulation Resistance: 500MΩ minimum • Contact Resistance: 30mΩ maximum • Mechanical Operation: Contact Resistance of 30mΩ maximum **Material:** • Socket Insulator/Pin Header Insulator: Polyamide, beige, UL94V-0 • Socket Contact/Pin Header Contact: Phosphor bronze, gold plated • Pin Header Metal Fitting: Brass • V Type: Solder plating • H Type: Tin copper plating (Pb free)

Fig. 1

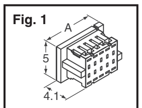

Fig. 2

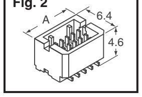

Fig.	No. of Pins	Dim. A (mm)	Digi-Key Part No.	Pricing 1	10	100	T & R◊ Pricing 1,000	Hirose Part No.
Double Row Socket								
RoHS Compliant								
1	10	7.20	H3143-ND	.42	2.91	19.51	—	DF20A-10DS-1C
	20	12.20	H3144-ND	.48	3.33	22.33	—	DF20A-20DS-1C
	30	17.20	H3145-ND	.54	3.75	25.15	—	DF20A-30DS-1C
	40	22.20	H3146-ND	.59	4.13	27.73	—	DF20A-40DS-1C
	50	27.20	H3147-ND	.64	4.45	29.85	—	DF20A-50DS-1C
Double Row Straight Pin Header								
2	30	17.30	H3135CT-ND†	2.03	16.90	125.20	—	DF20F-30DP-1V(59)
	20	12.30	H3139CT-ND★	1.88	15.31	111.15	657.00	DF20G-20DP-1V(59)
	30	17.30	H3140CT-ND★	2.03	16.90	125.20	—	DF20G-30DP-1V(59)
	40	22.30	H3141CT-ND★	2.47	20.49	151.80	—	DF20G-40DP-1V(59)
	50	27.30	H3142CT-ND★	2.88	23.95	177.40	—	DF20G-50DP-1V(59)
RoHS Compliant								
2	10	7.30	H10726CT-ND†	1.56	12.71	92.25	545.00	DF20F-10DP-1V(56)
	20	12.30	H10727CT-ND†	1.76	14.58	108.00	718.00	DF20F-20DP-1V(56)
	30	17.30	H10728CT-ND†	2.21	18.36	136.00	904.00	DF20F-30DP-1V(56)
	40	22.30	H10729CT-ND†	2.73	22.68	168.00	1117.00	DF20F-40DP-1V(56)
	50	27.30	H10730CT-ND†	3.19	26.46	196.00	1303.00	DF20F-50DP-1V(56)
	10	7.30	H10731CT-ND★	1.56	12.71	92.25	545.00	DF20G-10DP-1V(56)
	20	12.30	H10732CT-ND★	1.76	14.58	108.00	718.00	DF20G-20DP-1V(56)
	30	17.30	H10733CT-ND★	2.21	18.36	136.00	904.00	DF20G-30DP-1V(56)
	40	22.30	H10734CT-ND★	2.73	22.68	168.00	1117.00	DF20G-40DP-1V(56)
	50	27.30	H10735CT-ND★	3.19	26.46	196.00	1303.00	DF20G-50DP-1V(56)

★ With Boss † Without Boss ◊ For Tape and Reel part number, change CT-ND to TR-ND.

Socket Crimping Contacts

Description	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	T & R Pricing 10,000	Hirose Part No.
DF20 Series – RoHS Compliant							
28-30AWG Gold Plating	H3148CT-ND	5.58	18.90	28.80	H3148TR-ND	23.00/M	DF20F-2830SCFA
30-32AWG Gold Plating	H3149CT-ND	5.58	18.90	28.80	H3149TR-ND	23.00/M	DF20F-3032SCFA
Tools							
Manual Crimper for DF20 Series					H3150-ND	1436.50/1	HT302/DF20B-2830S

HIROSE ELECTRIC CO.,LTD.

DF13 Series Connectors

1.25mm Pitch

DF13 Series is 1.25mm pitch, compact "PCB-to-Wire" Nylon Connectors best suited for high density applications requiring reduced cost production, and light-weight. **Electrical Specifications:** • Current Capacity: 1A • Rated Voltage: AC150V • Insulation Resistance: Condition: DC100, Standard Value: Min. 500MΩ • Withstanding Voltage: Condition: At specified value, Standard Value: AC500V. • Contact Resistance: Condition: At DC 0.1A, Standard Value: Maximum 30mΩ. Material and Finish: • Pin Header Insulator: Polyimide resin, beige, UL94V-0. • Pin Header Contact: Brass, tin plating and gold plating. • Pin Header Hardware: Brass, tin plating and gold plating. • Crimp Socket Insulator: Polyimide resin, beige, UL94V-0. • Crimp Socket Contact: Phosphor bronze, tin plating and gold plating.

Fig. 1

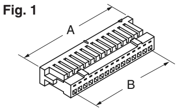

Fig. 2

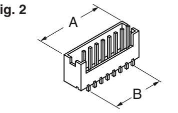

Fig. 3

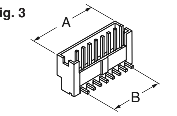

Fig. 4 — SMT

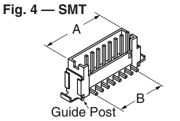

Fig. 5 — SMT

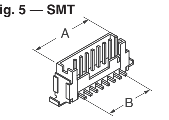

Fig. 6 — SMT

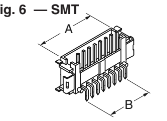

Fig. 7

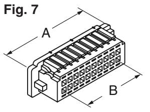

Fig. 8 — SMT

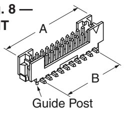

Fig. 9

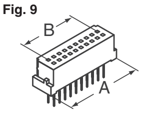

Fig. 10

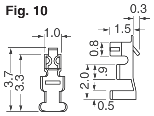

No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
	A	B		1	25	100	
Fig. 1 — Single Row Crimp Socket — RoHS Compliant							
2	4.15	1.25	H2179-ND	.28	2.88	7.13	DF13-2S-1.25C
3	5.40	2.50	H2180-ND	.23	2.54	7.15	DF13-3S-1.25C
4	6.65	3.75	H2181-ND	.28	3.35	10.00	DF13-4S-1.25C
5	7.90	5.00	H2182-ND	.29	3.52	10.50	DF13-5S-1.25C
6	9.15	6.25	H2183-ND	.31	3.69	11.00	DF13-6S-1.25C
7	10.40	7.50	H2184-ND	.32	3.77	11.25	DF13-7S-1.25C
8	11.65	8.75	H2185-ND	.49	5.86	17.50	DF13-8S-1.25C
9	12.90	10.00	H3300-ND	.41	6.08	19.04	DF13-9S-1.25C
10	14.15	11.25	H2186-ND	.52	6.20	18.50	DF13-10S-1.25C
11	15.40	12.50	H2187-ND	.55	6.62	19.75	DF13-11S-1.25C
12	16.65	13.75	H2188-ND	.41	6.08	19.04	DF13-12S-1.25C
13	17.90	15.00	H3301-ND	.55	6.62	19.75	DF13-13S-1.25C
14	19.15	16.25	H2189-ND	.49	7.35	23.03	DF13-14S-1.25C
15	20.40	17.50	H2259-ND	.53	6.37	19.00	DF13-15S-1.25C
Fig. 2 — Single Row, Vertical Pin Header — Tin Plating — RoHS Compliant							
2	4.15	1.25	H2191-ND	.50	5.95	17.75	DF13-2P-1.25DSA
3	5.40	2.50	H2192-ND	.43	6.38	19.98	DF13-3P-1.25DSA
4	6.65	3.75	H2193-ND	.56	8.33	26.09	DF13-4P-1.25DSA
5	7.90	5.00	H2194-ND	.63	9.45	29.61	DF13-5P-1.25DSA
6	9.15	6.25	H2195-ND	.71	10.58	33.14	DF13-6P-1.25DSA
7	10.40	7.50	H2196-ND	.59	10.73	35.10	DF13-7P-1.25DSA
8	11.65	8.75	H2197-ND	.76	13.75	45.00	DF13-8P-1.25DSA
9	12.90	10.00	H3302-ND	1.03	18.56	60.75	DF13-9P-1.25DSA(20)
10	14.15	11.25	H2198-ND	.87	15.81	51.75	DF13-10P-1.25DSA
11	15.40	12.50	H3303-ND	1.10	19.94	65.25	DF13-11P-1.25DSA(20)
12	16.65	13.75	H2320-ND	.91	16.50	54.00	DF13-12P-1.25DSA
13	17.90	15.00	H3304-ND	1.22	22.00	72.00	DF13-13P-1.25DSA(20)
14	19.15	16.25	H2321-ND	1.03	18.56	60.75	DF13-14P-1.25DSA
15	20.40	17.50	H2322-ND	1.06	19.25	63.00	DF13-15P-1.25DSA
Fig. 2 — Single Row, Vertical Pin Header — Gold Plating — RoHS Compliant							
2	4.15	1.25	H3305-ND	.61	11.00	36.00	DF13-2P-1.25DSA(50)
3	5.40	2.50	H3306-ND	.80	14.44	47.25	DF13-3P-1.25DSA(50)
4	6.65	3.75	H3307-ND	.80	14.44	47.25	DF13-4P-1.25DSA(50)
5	7.90	5.00	H3308-ND	.87	15.81	51.75	DF13-5P-1.25DSA(50)
6	9.15	6.25	H3309-ND	1.18	21.31	69.75	DF13-6P-1.25DSA(50)
7	10.40	7.50	H3310-ND	1.10	19.94	65.25	DF13-7P-1.25DSA(50)
8	11.65	8.75	H3311-ND	1.22	22.00	72.00	DF13-8P-1.25DSA(50)
9	12.90	10.00	H3312-ND	1.29	23.38	76.50	DF13-9P-1.25DSA(50)
10	14.15	11.25	H3313-ND	1.41	25.44	83.25	DF13-10P-1.25DSA(50)
11	15.40	12.50	H3314-ND	1.44	26.13	85.50	DF13-11P-1.25DSA(50)
12	16.65	13.75	H3315-ND	1.76	33.75	108.00	DF13-12P-1.25DSA(50)
14	19.15	16.25	H3316-ND	1.67	30.25	99.00	DF13-14P-1.25DSA(50)
15	20.40	17.50	H3317-ND	1.79	32.31	105.75	DF13-15P-1.25DSA(50)
Fig. 3 — Single Row, Right Angle Pin Header — Tin Plating — RoHS Compliant							
2	4.15	1.25	H2199-ND	.50	7.50	23.50	DF13-2P-1.25DS(20)
3	5.40	2.50	H2260-ND	.60	9.00	28.20	DF13-3P-1.25DS(20)
4	6.65	3.75	H2201-ND	.70	10.50	32.90	DF13-4P-1.25DS(20)
5	7.90	5.00	H2202-ND	.65	11.69	38.25	DF13-5P-1.25DS(20)
6	9.15	6.25	H2203-ND	.72	13.06	42.75	DF13-6P-1.25DS(20)
7	10.40	7.50	H2204-ND	.80	14.44	47.25	DF13-7P-1.25DS(20)
8	11.65	8.75	H2205-ND	.99	17.88	58.50	DF13-8P-1.25DS(20)
9	12.90	10.00	H3318-ND	1.22	22.00	72.00	DF13-9P-1.25DS(20)
10	14.15	11.25	H2206-ND	1.10	19.94	65.25	DF13-10P-1.25DS(20)
11	15.40	12.50	H3319-ND	1.44	26.13	85.50	DF13-11P-1.25DS(20)
12	16.65	13.75	H2323-ND	1.56	28.19	92.25	DF13-12P-1.25DS(20)
14	19.15	16.25	H2324-ND	1.29	23.38	76.50	DF13-14P-1.25DS(20)
15	20.40	17.50	H2325-ND	1.86	33.69	110.25	DF13-15P-1.25DS(20)
Fig. 3 — Single Row, Right Angle Pin Header — Gold Plating — RoHS Compliant							
2	4.15	1.25	H3320-ND	.65	9.75	30.55	DF13-2P-1.25DS(50)
3	5.40	2.50	H3321-ND	.61	11.00	36.00	DF13-3P-1.25DS(50)
4	6.65	3.75	H3322-ND	.76	13.75	45.00	DF13-4P-1.25DS(50)
5	7.90	5.00	H3323-ND	.87	15.81	51.75	DF13-5P-1.25DS(50)
6	9.15	6.25	H3324-ND	.99	17.88	58.50	DF13-6P-1.25DS(50)
7	10.40	7.50	H3325-ND	1.10	19.94	65.25	DF13-7P-1.25DS(50)
8	11.65	8.75	H3326-ND	1.29	23.38	76.50	DF13-8P-1.25DS(50)
9	12.90	10.00	H3327-ND	1.41	25.44	83.25	DF13-9P-1.25DS(50)
10	14.15	11.25	H3328-ND	1.44	26.13	85.50	DF13-10P-1.25DS(50)
11	15.40	12.50	H3329-ND	1.56	28.19	92.25	DF13-11P-1.25DS(50)
12	16.65	13.75	H3330-ND	1.67	30.25	99.00	DF13-12P-1.25DS(50)
14	19.15	16.25	H3331-ND	1.63	31.25	100.00	DF13-14P-1.25DS(50)
15	20.40	17.50	H3332-ND	1.71	30.94	101.25	DF13-15P-1.25DS(50)
Fig. 4 — Single Row, SMT, Vertical Pin Header with Guide Posts — Tin Plating — RoHS Compliant							
2	4.15	1.25	H2207-ND	.55	8.25	25.85	DF13-2P-1.25V(20)
3	5.40	2.50	H2208-ND	.65	9.75	30.55	DF13-3P-1.25V(20)
4	6.65	3.75	H2209-ND	.61	11.00	36.00	DF13-4P-1.25V(20)
5	7.90	5.00	H2210-ND	.65	11.69	38.25	DF13-5P-1.25V(20)
6	9.15	6.25	H2211-ND	.68	12.38	40.50	DF13-6P-1.25V(20)
7	10.40	7.50	H2212-ND	.76	13.75	45.00	DF13-7P-1.25V(20)
8	11.65	8.75	H2213-ND	.91	16.50	54.00	DF13-8P-1.25V(20)
9	12.90	10.00	H3335-ND	.99	17.88	58.50	DF13-9P-1.25V(20)
10	14.15	11.25	H2214-ND	1.03	18.56	60.75	DF13-10P-1.25V(20)
11	15.40	12.50	H2215-ND	1.10	19.94	65.25	DF13-11P-1.25V(20)
12	16.65	13.75	H2216-ND	1.10	19.94	65.25	DF13-12P-1.25V(20)
14	19.15	16.25	H2217-ND	1.22	22.00	72.00	DF13-14P-1.25V(20)
15	20.40	17.50	H2218-ND	1.33	24.06	78.75	DF13-15P-1.25V(20)
Fig. 4 — Single Row, SMT with Guide Posts, Vertical Pin Header — Gold Plating — RoHS Compliant							
2	4.15	1.25	H3336-ND	.76	13.75	45.00	DF13-2P-1.25V(50)
3	5.40	2.50	H3337-ND	.91	16.50	54.00	DF13-3P-1.25V(50)
4	6.65	3.75	H3338-ND	1.10	19.94	65.25	DF13-4P-1.25V(50)
5	7.90	5.00	H3339-ND	1.22	22.00	72.00	DF13-5P-1.25V(50)
6	9.15	6.25	H3340-ND	1.33	24.06	78.75	DF13-6P-1.25V(50)
7	10.40	7.50	H3341-ND	1.41	25.44	83.25	DF13-7P-1.25V(50)
8	11.65	8.75	H3342-ND	1.63	29.56	96.75	DF13-8P-1.25V(50)
9	12.90	10.00	H3343-ND	1.79	32.31	105.75	DF13-9P-1.25V(50)
10	14.15	11.25	H3344-ND	1.63	31.25	100.00	DF13-10P-1.25V(50)
11	15.40	12.50	H3345-ND	1.66	31.88	102.00	DF13-11P-1.25V(50)
12	16.65	13.75	H3346-ND	1.66	31.88	102.00	DF13-12P-1.25V(50)
14	19.15	16.25	H3347-ND	1.98	38.13	122.00	DF13-14P-1.25V(50)
15	20.40	17.50	H3348-ND	2.08	40.00	128.00	DF13-15P-1.25V(50)
Fig. 5 — Single Row, SMT, Vertical Pin Header with Boss — Tin Plating — RoHS Compliant							
2	4.15	1.25	H3393-ND	.55	8.25	25.85	DF13B-2P-1.25V(20)
3	5.40	2.50	H3394-ND	.65	9.75	30.55	DF13B-3P-1.25V(20)
4	6.65	3.75	H3395-ND	.61	11.00	36.00	DF13B-4P-1.25V(20)
5	7.90	5.00	H3396-ND	.65	11.69	38.25	DF13B-5P-1.25V(20)
6	9.15	6.25	H3397-ND	.68	12.38	40.50	DF13B-6P-1.25V(20)
7	10.40	7.50	H3398-ND	.76	13.75	45.00	DF13B-7P-1.25V(20)
8	11.65	8.75	H3399-ND	.91	16.50	54.00	DF13B-8P-1.25V(20)
9	12.90	10.00	H3400-ND	.99	17.88	58.50	DF13B-9P-1.25V(20)
10	14.15	11.25	H3401-ND	1.03	18.56	60.75	DF13B-10P-1.25V(20)
11	15.40	12.50	H3402-ND	1.10	19.94	65.25	DF13B-11P-1.25V(20)
12	16.65	13.75	H3403-ND	1.10	19.94	65.25	DF13B-12P-1.25V(20)
14	19.15	16.25	H3404-ND	1.22	22.00	72.00	DF13B-14P-1.25V(20)
15	20.40	17.50	H3405-ND	1.33	24.06	78.75	DF13B-15P-1.25V(20)
Fig. 5 — Single Row, SMT, Vertical Pin Header with Boss — Gold Plating — RoHS Compliant							
2	4.15	1.25	H3406-ND	.76	13.75	45.00	DF13B-2P-1.25V(50)
3	5.40	2.50	H3407-ND	.91	16.50	54.00	DF13B-3P-1.25V(50)
4	6.65	3.75	H3408-ND	1.10	19.94	65.25	DF13B-4P-1.25V(50)
5	7.90	5.00	H3409-ND	1.22	22.00	72.00	DF13B-5P-1.25V(50)
6	9.15	6.25	H3410-ND	1.33	24.06	78.75	DF13B-6P-1.25V(50)
7	10.40	7.50	H3411-ND	1.41	25.44	83.25	DF13B-7P-1.25V(50)
8	11.65	8.75	H3412-ND	1.63	29.56	96.75	DF13B-8P-1.25V(50)
9	12.90	10.00	H3413-ND	1.79	32.31	105.75	DF13B-9P-1.25V(50)
10	14.15	11.25	H3414-ND	1.63	31.25	100.00	DF13B-10P-1.25V(50)
11	15.40	12.50	H3415-ND	1.66	31.88	102.00	DF13B-11P-1.25V(50)
12	16.65	13.75	H3416-ND	1.76	33.75	108.00	DF13B-12P-1.25V(50)
14	19.15	16.25	H3417-ND	1.98	38.13	122.00	DF13B-14P-1.25V(50)
15	20.40	17.50	H3418-ND	2.08	40.00	128.00	DF13B-15P-1.25V(50)
Fig. 5 — Single Row, SMT, Vertical Pin Header without Boss — Tin Plating — RoHS Compliant							
2	4.15	1.25	H3419-ND	.55	8.25	25.85	DF13C-2P-1.25V(20)
3	5.40	2.50	H3420-ND	.65	9.75	30.55	DF13C-3P-1.25V(20)
4	6.65	3.75	H3421-ND	.61	11.00	36.00	DF13C-4P-1.25V(20)
5	7.90	5.00	H3422-ND	.65	11.69	38.25	DF13C-5P-1.25V(20)
6	9.15	6.25	H3423-ND	.68	12.38	40.50	DF13C-6P-1.25V(20)
7	10.40	7.50	H3424-ND	.76	13.75	45.00	DF13C-7P-1.25V(20)
8	11.65	8.75	H3425-ND	.91	16.50	54.00	DF13C-8P-1.25V(20)
9	12.90	10.00	H3426-ND	.99	17.88	58.50	DF13C-9P-1.25V(20)
10	14.15	11.25	H3427-ND	1.03	18.56	60.75	DF13C-10P-1.25V(20)
11	15.40	12.50	H3428-ND	1.10	19.94	65.25	DF13C-11P-1.25V(20)
12	16.65	13.75	H3429-ND	1.10	19.94	65.25	DF13C-12P-1.25V(20)
14	19.15	16.25	H3430-ND	1.22	22.00	72.00	DF13C-14P-1.25V(20)
15	20.40	17.50	H3431-ND	1.33	24.06	78.75	DF13C-15P-1.25V(20)
Fig. 5 — Single Row, SMT, Vertical Pin Header without Boss — Gold Plating — RoHS Compliant							
2	4.15	1.25	H3432-ND	.76	13.75	45.00	DF13C-2P-1.25V(50)
3	5.40	2.50	H3433-ND	.91	16.50	54.00	DF13C-3P-1.25V(50)
4	6.65	3.75	H3434-ND	1.10	19.94	65.25	DF13C-4P-1.25V(50)
5	7.90	5.00	H3435-ND	1.22	22.00	72.00	DF13C-5P-1.25V(50)
6	9.15	6.25	H3436-ND	1.33	24.06	78.75	DF13C-6P-1.25V(50)
7	10.40	7.50	H3437-ND	1.41	25.44	83.25	DF13C-7P-1.25V(50)
8	11.65	8.75	H3438-ND	1.63	29.56	96.75	DF13C-8P-1.25V(50)
9	12.90	10.00	H3439-ND	1.79	32.31	105.75	DF13C-9P-1.25V(50)
10	14.15	11.25	H3440-ND	1.63	31.25	100.00	DF13C-10P-1.25V(50)
11	15.40	12.50	H3441-ND	1.66	31.88	102.00	DF13C-11P-1.25V(50)
12	16.65	13.75	H3442-ND	1.76	33.75	108.00	DF13C-12P-1.25V(50)
14	19.15	16.25	H3443-ND	1.98	38.13	122.00	DF13C-14P-1.25V(50)
15	20.40	17.50	H3444-ND	2.08	40.00	128.00	DF13C-15P-1.25V(50)
Fig. 6 — Single Row, SMT, Right Angle Pin Header with Boss — Tin Plating — RoHS Compliant							
2	4.15	1.25	H2219-ND	.55	8.25	25.85	DF13-2P-1.25H(20)
3	5.40	2.50	H2220-ND	.65	9.75	30.55	DF13-3P-1.25H(20)
4	6.65	3.75	H2221-ND	.61	11.00	36.00	DF13-4P-1.25H(20)
5	7.90	5.00	H2222-ND	.68	12.38	40.50	DF13-5P-1.25H(20)
6	9.15	6.25	H2223-ND	.72	13.06	42.75	DF13-6P-1.25H(20)
7	10.40	7.50	H2224-ND	.80	14.44	47.25	DF13-7P-1.25H(20)
8	11.65	8.75	H2225-ND	.91	16.50	54.00	DF13-8P-1.25H(20)
9	12.90	10.00	H3349-ND	.99	17.88	58.50	DF13-9P-1.25H(20)
10	14.15	11.25	H2226-ND	1.10	19.94	65.25	DF13-10P-1.25H(20)
11	15.40	12.50	H2227-ND	1.10	19.94	65.25	DF13-11P-1.25H(20)
12	16.65	13.75	H2228-ND	1.18	21.31	69.75	DF13-12P-1.25H(20)
14	19.15	16.25	H2229-ND	1.29	23.38	76.50	DF13-14P-1.25H(20)
15	20.40	17.50	H2230-ND	1.33	24.06	78.75	DF13-15P-1.25H(20)
Fig. 6 — Single Row, SMT, Right Angle Pin Header with Boss — Gold Plating — RoHS Compliant							
2	4.15	1.25	H3350-ND	.76	13.75	45.00	DF13-2P-1.25H(50)
3	5.40	2.50	H3351-ND	.91	16.50	54.00	DF13-3P-1.25H(50)
4	6.65	3.75	H3352-ND	1.10	19.94	65.25	DF13-4P-1.25H(50)
5	7.90	5.00	H3353-ND	1.22	22.00	72.00	DF13-5P-1.25H(50)
6	9.15	6.25	H3354-ND	1.33	24.06	78.75	DF13-6P-1.25H(50)
7	10.40	7.50	H3355-ND	1.41	25.44	83.25	DF13-7P-1.25H(50)
8	11.65	8.75	H3356-ND	1.63	29.56	96.75	DF13-8P-1.25H(50)
9	12.90	10.00	H3357-ND	1.79	32.31	105.75	DF13-9P-1.25H(50)
10	14.15	11.25	H3358-ND	1.63	31.25	100.00	DF13-10P-1.25H(50)

* With Boss † Without Boss ‡ Cut Tape ◊ Tape and Reel

(Continued)

HIROSE ELECTRIC CO.,LTD.

DF13 Series Connectors *(Cont.)*

1.25mm Pitch

No. of Pins	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
11	15.40	12.50	H3359-ND	1.66	31.88	102.00	DF13-11P-1.25H(50)
12	16.65	13.75	H3360-ND	1.76	33.75	108.00	DF13-12P-1.25H(50)
14	19.15	16.25	H3361-ND	1.98	38.13	122.00	DF13-14P-1.25H(50)
15	20.40	17.50	H3362-ND	2.08	40.00	128.00	DF13-15P-1.25H(50)
Fig. 6 — Single Row, SMT, Right Angle Pin Header without Boss — Tin Plating — RoHS Compliant							
2	4.15	1.25	H3367-ND	.55	8.25	25.85	DF13A-2P-1.25H(20)
3	5.40	2.50	H3368-ND	.65	9.75	30.55	DF13A-3P-1.25H(20)
4	6.65	3.75	H3369-ND	.61	11.00	36.00	DF13A-4P-1.25H(20)
5	7.90	5.00	H3370-ND	.65	11.69	38.25	DF13A-5P-1.25H(20)
6	9.15	6.25	H3371-ND	.68	12.38	40.50	DF13A-6P-1.25H(20)
7	10.40	7.50	H3372-ND	.76	13.75	45.00	DF13A-7P-1.25H(20)
8	11.65	8.75	H3373-ND	.91	16.50	54.00	DF13A-8P-1.25H(20)
9	12.90	10.00	H3374-ND	.99	17.88	58.50	DF13A-9P-1.25H(20)
10	14.15	11.25	H3375-ND	1.03	18.56	60.75	DF13A-10P-1.25H(20)
11	15.40	12.50	H3376-ND	1.10	19.94	65.25	DF13A-11P-1.25H(20)
12	16.65	13.75	H3377-ND	1.18	21.31	69.75	DF13A-12P-1.25H(20)
14	19.15	16.25	H3378-ND	1.29	23.38	76.50	DF13A-14P-1.25H(20)
15	20.40	17.50	H3379-ND	1.33	24.06	78.75	DF13A-15P-1.25H(20)
Fig. 6 — Single Row, SMT, Right Angle Pin Header without Boss — Gold Plating — RoHS Compliant							
2	4.15	1.25	H3380-ND	.76	13.75	45.00	DF13A-2P-1.25H(50)
3	5.40	2.50	H3381-ND	.91	16.50	54.00	DF13A-3P-1.25H(50)
4	6.65	3.75	H3382-ND	1.10	19.94	65.25	DF13A-4P-1.25H(50)
5	7.90	5.00	H3383-ND	1.22	22.00	72.00	DF13A-5P-1.25H(50)
6	9.15	6.25	H3384-ND	1.33	24.06	78.75	DF13A-6P-1.25H(50)
7	10.40	7.50	H3385-ND	1.41	25.44	83.25	DF13A-7P-1.25H(50)
8	11.65	8.75	H3386-ND	1.63	29.56	96.75	DF13A-8P-1.25H(50)
9	12.90	10.00	H3387-ND	1.79	32.31	105.75	DF13A-9P-1.25H(50)
10	14.15	11.25	H3388-ND	1.63	31.25	100.00	DF13A-10P-1.25H(50)
11	15.40	12.50	H3389-ND	1.66	31.88	102.00	DF13A-11P-1.25H(50)
12	16.65	13.75	H3390-ND	1.76	33.75	108.00	DF13A-12P-1.25H(50)
14	19.15	16.25	H3391-ND	1.98	38.13	122.00	DF13A-14P-1.25H(50)
Fig. 7 — Dual Row Crimp Sockets — RoHS Compliant							
10	10.40	5.00	H2231-ND	.34	4.10	12.25	DF13-10DS-1.25C
20	16.65	11.25	H2232-ND	.40	4.77	14.25	DF13-20DS-1.25C
30	22.90	17.50	H2233-ND	.50	5.95	17.75	DF13-30DS-1.25C
40	29.15	23.75	H2234-ND	.40	6.00	18.80	DF13-40DS-1.25C
Fig. 8 — SMT Straight Pin Headers with Guide Posts — Tin Plating							
10	12.1	5.00	H3365-ND†	.95	17.19	56.25	DF13A-10DP-1.25V(20)
Fig. 8 — SMT Straight Pin Headers with Guide Posts — Tin Plating — RoHS Compliant							
10	12.1	5.00	H10155-ND*	.99	17.88	58.50	DF13-10DP-1.25V(25)
20	18.35	11.25	H10156-ND*	1.41	25.44	83.25	DF13-20DP-1.25V(25)
10	12.1	5.00	H10157-ND†	.99	17.88	58.50	DF13A-10DP-1.25V(25)
20	18.35	11.25	H10158-ND†	1.41	25.44	83.25	DF13A-20DP-1.25V(25)
Fig. 8 — SMT Straight Pin Headers with Guide Posts — Gold Plating — RoHS Compliant							
10	12.10	5.00	H10159-ND*	1.03	18.56	60.75	DF13-10DP-1.25V(55)
20	18.35	11.25	H10160-ND*	1.56	28.19	92.25	DF13-20DP-1.25V(55)
30	24.60	17.50	H10161-ND*	1.76	33.75	108.00	DF13-30DP-1.25V(55)
40	30.85	23.75	H10162-ND*	2.21	42.50	136.00	DF13-40DP-1.25V(55)
Fig. 8 — SMT Straight Pin Headers without Guide Posts — Gold Plating — RoHS Compliant							
10	12.10	5.00	H10163-ND	1.03	18.56	60.75	DF13A-10DP-1.25V(55)
20	18.35	11.25	H10164-ND	1.56	28.19	92.25	DF13A-20DP-1.25V(55)
30	24.60	17.50	H10165-ND	1.76	33.75	108.00	DF13A-30DP-1.25V(55)
40	30.85	23.75	H10166-ND	2.21	42.50	136.00	DF13A-40DP-1.25V(55)
Fig. 9 — Dual Row Receptacles — Gold Plating — RoHS Compliant							
20	15.40	11.25	H10167-ND	2.83	54.38	174.00	DF13-20DS-1.25DSA(55)
40	27.90	23.75	H10168-ND	4.03	78.19	250.20	DF13-40DS-1.25DSA(55)
Fig. 10 — Socket Crimp Contact — RoHS Compliant							
Tin Plating AWG 26-30			H9992CT-ND‡ H9992TR-ND◊	3.10/100 130.00/10,000			DF13-2630SCF
Gold Plating AWG 26-30			H9991CT-ND‡ H9991TR-ND◊	6.51/100 270.00/10,000			DF13-2630SCFA
Hand Crimp Tools and Die Sets							
Tool with Non-Removable Die			H9994-ND	929.50/1			DF13-TB2630HC
Tool with Die Set			H10889-ND	861.90/1			DF13-TB2630HC/US1
Tool without Die Set			H9926-ND	344.47/1			HRUS-HT-1
Die Set without Tool			H10890-ND	537.32/1			DF13-TB2630HC/US1-DS
Extraction Tool							
Crimp Pin and Socket			H9996-ND	3.02/1			DF-C-PO(B)

* With Boss † Without Boss ‡ Cut Tape ◊ Tape and Reel

DF14 Series Connectors 1.25mm Pitch

Features: • Board mounting height: 2.5mm • Box structure to prevent twisting and misinsertion • Metal holddown is attached to prevent the solder peel **Applications:** • LCD • Notebook PC • Mobile terminal small business equipment • Video camera **Specifications:** • Current Rating: 1A • Voltage Rating: 150VAC • Operating Temperature Range: -25°C ~ 85°C • Operating Moisture Range: 40% ~ 80% • Insulation Resistance: 500MΩ minimum, 100VDC • Withstanding Voltage: 1 minute at rated value, 500VAC (no flashover or insulation breakdown) • Contact Resistance: 100mA, 30mΩ maximum • Operating Life: Contact resistance of 30mΩ maximum (tin plating: 30 cycles and gold plating: 50 cycles) **Material (Socket/ Header):** • Insulator: Polyamide, beige, UL94V-0 • Contacts: Socket: Phosphor copper with gold or tin plating; Header: Brass with gold or tin plating • Header Fittings: Phosphor copper with tin plating

Fig. 1

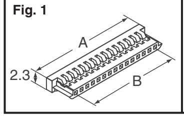

Fig. 2

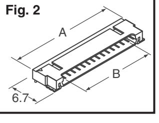

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Crimping Sockets – RoHS Compliant								
1	2	4.45	1.25	H1563-ND	.40	6.00	18.80	DF14-2S-1.25C
	3	5.70	2.50	H1564-ND	.42	6.23	19.51	DF14-3S-1.25C
	4	6.95	3.75	H1565-ND	.43	6.45	20.21	DF14-4S-1.25C
	5	8.20	5.00	H1566-ND	.45	6.75	21.15	DF14-5S-1.25C
	6	9.45	6.25	H1567-ND	.47	6.98	21.86	DF14-6S-1.25C
	7	10.70	7.50	H1568-ND	.48	7.20	22.56	DF14-7S-1.25C
	8	11.95	8.75	H1569-ND	.50	7.43	23.27	DF14-8S-1.25C
	9	13.20	10.00	H1570-ND	.51	7.65	23.97	DF14-9S-1.25C
	10	14.45	11.25	H1571-ND	.53	7.88	24.68	DF14-10S-1.25C
	15	20.70	17.50	H1572-ND	.57	8.48	26.56	DF14-15S-1.25C
	20	26.95	23.75	H1573-ND	.63	9.45	29.61	DF14-20S-1.25C
	25	33.20	30.00	H1574-ND	.70	10.43	32.67	DF14-25S-1.25C
	30	39.45	36.25	H1575-ND	.62	11.14	36.45	DF14-30S-1.25C

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Right Angle Pin Headers (SMT)								
Tin Plating, With Boss								
2	3	8.70	2.50	H1512-ND	1.25	22.69	74.25	DF14-3P-1.25H(20)
	7	13.70	7.50	H1516-ND	1.56	28.19	92.25	DF14-7P-1.25H(20)
	8	14.95	8.75	H1517-ND	1.67	30.25	99.00	DF14-8P-1.25H(20)
Tin Plating, With Boss — RoHS Compliant								
2	2	7.45	1.25	H10310-ND	1.33	24.06	78.75	DF14-2P-1.25H(25)
	3	8.70	2.50	H10314-ND	1.41	25.44	83.25	DF14-3P-1.25H(25)
	4	9.95	3.75	H10316-ND	1.52	27.50	90.00	DF14-4P-1.25H(25)
	5	11.20	5.00	H10318-ND	1.56	28.19	92.25	DF14-5P-1.25H(25)
	6	12.45	6.25	H10320-ND	1.63	29.56	96.75	DF14-6P-1.25H(25)
	7	13.70	7.50	H10322-ND	1.67	30.25	99.00	DF14-7P-1.25H(25)
	8	14.95	8.75	H10324-ND	1.79	32.31	105.75	DF14-8P-1.25H(25)
	9	16.20	10.00	H10326-ND	1.82	33.00	108.00	DF14-9P-1.25H(25)
	10	17.45	11.25	H10302-ND	1.66	31.88	102.00	DF14-10P-1.25H(25)
	15	23.70	17.50	H10304-ND	2.21	42.50	136.00	DF14-15P-1.25H(25)
	20	29.95	23.75	H10306-ND	2.57	49.38	158.00	DF14-20P-1.25H(25)
	25	36.20	30.00	H10308-ND	2.93	56.25	180.00	DF14-25P-1.25H(25)
	30	42.45	36.25	H10312-ND	3.15	60.63	194.00	DF14-30P-1.25H(25)
Tin Plating, Without Boss								
2	2	7.45	1.25	H1524-ND	1.22	22.00	72.00	DF14A-2P-1.25H(20)
	6	12.45	6.25	H1528-ND	1.48	26.81	87.75	DF14A-6P-1.25H(20)
	7	13.70	7.50	H1529-ND	1.56	28.19	92.25	DF14A-7P-1.25H(20)
	8	14.95	8.75	H1530-ND	1.67	30.25	99.00	DF14A-8P-1.25H(20)
	9	16.20	10.00	H1531-ND	1.71	30.94	101.25	DF14A-9P-1.25H(20)
	10	17.45	11.25	H1532-ND	1.82	33.00	108.00	DF14A-10P-1.25H(20)
	20	29.95	23.75	H1534-ND	2.37	45.63	146.00	DF14A-20P-1.25H(20)
	25	36.20	30.00	H1535-ND	2.70	51.88	166.00	DF14A-25P-1.25H(20)
Tin Plating, Without Boss — RoHS Compliant								
2	2	7.45	1.25	H10336-ND	1.33	24.06	78.75	DF14A-2P-1.25H(25)
	3	8.70	2.50	H10340-ND	1.41	25.44	83.25	DF14A-3P-1.25H(25)
	4	9.95	3.75	H10342-ND	1.52	27.50	90.00	DF14A-4P-1.25H(25)
	5	11.20	5.00	H10344-ND	1.56	28.19	92.25	DF14A-5P-1.25H(25)
	6	12.45	6.25	H10346-ND	1.63	29.56	96.75	DF14A-6P-1.25H(25)
	7	13.70	7.50	H10348-ND	1.67	30.25	99.00	DF14A-7P-1.25H(25)
	8	14.95	8.75	H10350-ND	1.79	32.31	105.75	DF14A-8P-1.25H(25)
	9	16.20	10.00	H10352-ND	1.82	33.00	108.00	DF14A-9P-1.25H(25)
	10	17.45	11.25	H10328-ND	1.66	31.88	102.00	DF14A-10P-1.25H(25)
	15	23.70	17.50	H10330-ND	2.21	42.50	136.00	DF14A-15P-1.25H(25)
	20	29.95	23.75	H10332-ND	2.57	49.38	158.00	DF14A-20P-1.25H(25)
	25	36.20	30.00	H10334-ND	2.93	56.25	180.00	DF14A-25P-1.25H(25)
	30	42.45	36.25	H10338-ND	3.15	60.63	194.00	DF14A-30P-1.25H(25)
Gold Plating, With Boss								
2	2	7.45	1.25	H1537-ND	1.22	22.00	72.00	DF14-2P-1.25H(50)
	3	8.70	2.50	H1538-ND	1.33	24.06	78.75	DF14-3P-1.25H(50)
	9	16.20	10.00	H1544-ND	1.86	33.69	110.25	DF14-9P-1.25H(50)
	10	17.45	11.25	H1545-ND	1.66	31.88	102.00	DF14-10P-1.25H(50)
Gold Plating, With Boss — RoHS Compliant								
2	2	7.45	1.25	H10311-ND	1.33	24.06	78.75	DF14-2P-1.25H(55)
	3	8.70	2.50	H10315-ND	1.44	26.13	85.50	DF14-3P-1.25H(55)
	4	9.95	3.75	H10317-ND	1.56	28.19	92.25	DF14-4P-1.25H(55)
	5	11.20	5.00	H10319-ND	1.63	29.56	96.75	DF14-5P-1.25H(55)
	6	12.45	6.25	H10321-ND	1.75	31.63	103.50	DF14-6P-1.25H(55)
	7	13.70	7.50	H10323-ND	1.79	32.31	105.75	DF14-7P-1.25H(55)
	8	14.95	8.75	H10325-ND	1.63	31.25	100.00	DF14-8P-1.25H(55)
	9	16.20	10.00	H10327-ND	1.72	33.13	106.00	DF14-9P-1.25H(55)
	10	17.45	11.25	H10303-ND	1.76	33.75	108.00	DF14-10P-1.25H(55)
	15	23.70	17.50	H10305-ND	2.41	46.25	148.00	DF14-15P-1.25H(55)
	20	29.95	23.75	H10307-ND	2.80	53.75	172.00	DF14-20P-1.25H(55)
	25	36.20	30.00	H10309-ND	2.90	56.25	180.00	DF14-25P-1.25H(55)
	30	42.45	36.25	H10313-ND	3.19	61.88	198.00	DF14-30P-1.25H(55)
Gold Plating, Without Boss								
2	2	7.45	1.25	H1550-ND	1.22	22.00	72.00	DF14A-2P-1.25H(50)
	6	12.45	6.25	H1554-ND	1.60	28.88	94.50	DF14A-6P-1.25H(50)
	9	16.20	10.00	H1557-ND	1.86	33.69	110.25	DF14A-9P-1.25H(50)
	10	17.45	11.25	H1558-ND	1.66	31.88	102.00	DF14A-10P-1.25H(50)
	15	23.70	17.50	H1559-ND	2.21	42.50	136.00	DF14A-15P-1.25H(50)
Gold Plating, Without Boss — RoHS Compliant								
2	2	7.45	1.25	H10337-ND	1.33	24.06	78.75	DF14A-2P-1.25H(55)
	3	8.70	2.50	H10341-ND	1.44	26.13	85.50	DF14A-3P-1.25H(55)
	4	9.95	3.75	H10343-ND	1.56	28.19	92.25	DF14A-4P-1.25H(55)
	5	11.20	5.00	H10345-ND	1.63	29.56	96.75	DF14A-5P-1.25H(55)
	6	12.45	6.25	H10347-ND	1.75	31.63	103.50	DF14A-6P-1.25H(55)
	7	13.70	7.50	H10349-ND	1.79	32.31	105.75	DF14A-7P-1.25H(55)
	8	14.95	8.75	H10351-ND	1.63	31.25	100.00	DF14A-8P-1.25H(55)
	9	16.20	10.00	H10353-ND	1.72	33.13	106.00	DF14A-9P-1.25H(55)
	10	17.45	11.25	H10329-ND	1.76	33.75	108.00	DF14A-10P-1.25H(55)
	15	23.70	17.50	H10331-ND	2.41	46.25	148.00	DF14A-15P-1.25H(55)
	20	29.95	23.75	H10333-ND	2.80	53.75	172.00	DF14A-20P-1.25H(55)
	25	36.20	30.00	H10335-ND	2.90	56.25	180.00	DF14A-25P-1.25H(55)
	30	42.45	36.25	H10339-ND	3.19	61.88	198.00	DF14A-30P-1.25H(55)

Socket Crimping Contacts

Description	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	T & R Pricing 10,000	Hirose Part No.
26-28 AWG Tin Plating	H1576CT-ND◆	.63	1.71	2.79	H1576TR-ND◆	11.00/M	DF14-2628SCF
26-28 AWG Gold Plating	H1577CT-ND◆	1.54	4.18	6.82	H1577TR-ND◆	28.00/M	DF14-2628SCFA
30-32 AWG Tin Plating	H1578CT-ND◆	.63	1.71	2.79	H1578TR-ND◆	11.00/M	DF14-3032SCF
30-32 AWG Gold Plating	H1579CT-ND◆	1.54	4.18	6.82	H1579TR-ND◆	28.00/M	DF14-3032SCFA
Tools							
Manual Crimper for 26-28 AWG.................	H9949-ND	1158.30/1					DF14-2628/CR-HT
Manual Crimper for 30-32 AWG.................	H9948-ND	1158.30/1					DF14-3032/CR-HT

◆ ***RoHS Compliant***

HIROSE ELECTRIC CO.,LTD.

DF4 Series Board-In Connectors

2mm Pitch

Features:
- Extractable socket and board-in connector provided with the dual-sided harness eliminate one of the two headers required for a dual-sided socket harness, with the board separating function remaining unchanged
- Compact and multicontact
- Temporary board fixing structure

Applications:
- Notebook computers, compact OA equipment

Specifications:
- Rated Current: Crimping - 24AWG: 3A, 26AWG: 2A, 28AWG: 1A. ID Termination - wire size 26/28AWG:1A
- Operating Temperature: -30°C ~ 85°C
- Rated Voltage: Crimping - AC250V ID termination - AC100V

Material:
- Crimp Plug: Insulation, polyimide resin, black, UL94V-0
- Crimp Terminal for Plug: Terminal, brass, tin-plated
- ID Termination Plug: • Insulation: Polyimide resin, black, UL94V-0
- Terminal: Phosphor bronze, tin-plated

Fig. 1

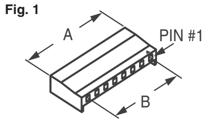

Fig. 2

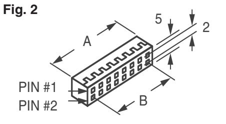

Fig.	No. of Contacts	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
				Single-Row Crimp Plug – RoHS Compliant				
1	2	4.5	2.0	H2582-ND	.31	3.32	9.35	DF4-2P-2C
	3	6.5	4.0	H2583-ND	.32	3.51	9.90	DF4-3P-2C
	4	8.5	6.0	H2584-ND	.33	3.61	10.18	DF4-4P-2C
	5	10.5	8.0	H2585-ND	.34	3.71	10.45	DF4-5P-2C
	6	12.5	10.0	H2586-ND	.28	3.35	10.00	DF4-6P-2C
	7	14.5	12.0	H2587-ND	.28	3.35	10.00	DF4-7P-2C
	8	16.5	14.0	H2588-ND	.29	3.52	10.50	DF4-8P-2C
	9	18.5	16.0	H2589-ND	.29	3.52	10.50	DF4-9P-2C
	10	20.5	18.0	H2590-ND	.31	3.69	11.00	DF4-10P-2C
	11	22.5	20.0	H2591-ND	.32	3.77	11.25	DF4-11P-2C
	12	24.5	22.0	H2592-ND	.32	3.85	11.50	DF4-12P-2C
	13	26.5	24.0	H2593-ND	.34	4.02	12.00	DF4-13P-2C
	14	28.5	26.0	H2594-ND	.34	4.10	12.25	DF4-14P-2C
	15	30.0	28.0	H2595-ND	.35	4.19	12.50	DF4-15P-2C
				Double-Row Crimp Plug – RoHS Compliant				
2	4	4.8	2.0	H2596-ND	.46	5.44	16.25	DF4- 4DP-2C
	6	6.8	4.0	H2597-ND	.47	5.61	16.75	DF4- 6DP-2C
	8	8.8	6.0	H2598-ND	.48	5.70	17.00	DF4- 8DP-2C
	10	10.8	8.0	H2599-ND	.48	5.78	17.25	DF4-10DP-2C
	12	12.8	10.0	H2600-ND	.50	5.95	17.75	DF4-12DP-2C
	14	14.8	12.0	H2601-ND	.54	6.45	19.25	DF4-14DP-2C
	16	16.8	14.0	H2602-ND	.40	6.00	18.80	DF4-16DP-2C
	18	18.8	16.0	H2603-ND	.41	6.08	19.04	DF4-18DP-2C
	20	20.8	18.0	H2604-ND	.46	6.83	21.39	DF4-20DP-2C
	22	22.8	20.0	H2605-ND	.46	6.90	21.62	DF4-22DP-2C
	24	24.8	22.0	H2606-ND	.47	7.05	22.09	DF4-24DP-2C
	26	26.8	24.0	H2607-ND	.48	7.20	22.56	DF4-26DP-2C
	28	28.8	26.0	H2608-ND	.52	7.73	24.21	DF4-28DP-2C
	30	30.8	28.0	H2609-ND	.53	7.95	24.91	DF4-30DP-2C
	32	32.8	30.0	H2610-ND	.55	8.18	25.62	DF4-32DP-2C

Crimp Terminal

Description	Digi-Key Part No.	*Loose Piece* Pricing 100	Hirose Part No.	*Cut Tape** Pricing 10	50	100	*Tape & Reel†* Pricing 10,000	Hirose Part No.
24-28 AWG Tin Pltg.	H2612-ND	3.64	DF4-2428PC	1.10	2.99	4.88	13.00/M	DF4-2428PCF
24-28 AWG Tin Pltg.	H11367-ND◆	7.44	DF4-2428PC(05)	1.54	4.48	7.70	11.00/M	DF4-2428PCF(05)
			Tool					
Manual Crimper for Loose Contacts.............	H9993-ND				821.60/1			DF4-TA2428HC

* For Cut Tape, add CT to the Digi-Key Part No. (H2612CT-ND) or (H11367CT-ND)

† For Tape and Reel, add TR to the Digi-Key Part No. (H2612TR-ND) or (H11367TR-ND)

◆ ***RoHS Compliant***

Termination Plugs

Fig. 1

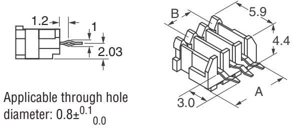

Applicable through hole diameter: $0.8\pm^{0.1}_{0.0}$

Fig. 2

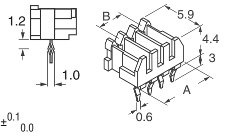

Applicable through hole diameter: $0.8\pm^{0.1}_{0.0}$

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
				Straight ID – RoHS Compliant				
				26 AWG				
1	2	6.0	2.0	H2613-ND	.54	6.45	19.25	DF4-2P-2R26
	3	8.0	4.0	H2614-ND	.47	7.05	22.09	DF4-3P-2R26
	4	10.0	6.0	H2615-ND	.56	8.33	26.09	DF4-4P-2R26
	5	12.0	8.0	H2616-ND	.69	10.28	32.20	DF4-5P-2R26
	6	14.0	10.0	H2617-ND	.59	10.73	35.10	DF4-6P-2R26
	7	16.0	12.0	H2618-ND	.65	11.76	38.48	DF4-7P-2R26
	8	18.0	14.0	H2619-ND	.71	12.93	42.30	DF4-8P-2R26
	9	20.0	16.0	H2620-ND	.77	13.96	45.68	DF4-9P-2R26
	10	22.0	18.0	H2621-ND	.84	15.19	49.73	DF4-10P-2R26
	11	24.0	20.0	H2622-ND	1.00	18.01	58.95	DF4-11P-2R26
	12	26.0	22.0	H2623-ND	1.06	19.11	62.55	DF4-12P-2R26
	13	28.0	24.0	H2624-ND	1.12	20.35	66.60	DF4-13P-2R26
	14	30.0	26.0	H2625-ND	1.19	21.45	70.20	DF4-14P-2R26
	15	32.0	28.0	H2626-ND	1.25	22.55	73.80	DF4-15P-2R26
				28 AWG				
1	2	6.0	2.0	H2627-ND	.54	6.45	19.25	DF4-2P-2R28
	3	8.0	4.0	H2628-ND	.47	7.05	22.09	DF4-3P-2R28
	4	10.0	6.0	H2629-ND	.56	8.33	26.09	DF4-4P-2R28
	5	12.0	8.0	H2630-ND	.69	10.28	32.20	DF4-5P-2R28
	6	14.0	10.0	H2631-ND	.59	10.73	35.10	DF4-6P-2R28
1	7	16.0	12.0	H2632-ND	.65	11.76	38.48	DF4-7P-2R28
	8	18.0	14.0	H2633-ND	.71	12.93	42.30	DF4-8P-2R28
	9	20.0	16.0	H2634-ND	.77	13.96	45.68	DF4-9P-2R28
	10	22.0	18.0	H2635-ND	.84	15.19	49.73	DF4-10P-2R28
	11	24.0	20.0	H2636-ND	1.00	18.01	58.95	DF4-11P-2R28
	12	26.0	22.0	H2637-ND	1.06	19.11	62.55	DF4-12P-2R28
	13	28.0	24.0	H2638-ND	1.12	20.35	66.60	DF4-13P-2R28
	14	30.0	26.0	H2639-ND	1.19	21.45	70.20	DF4-14P-2R28
	15	32.0	28.0	H2640-ND	1.25	22.55	73.80	DF4-15P-2R28
				Right-Angle ID – RoHS Compliant				
				26 AWG				
2	2	6.0	2.0	H2641-ND	.53	6.37	19.00	DF4-2PA-2R26
	3	8.0	4.0	H2642-ND	.46	6.90	21.62	DF4-3PA-2R26
	4	10.0	6.0	H2643-ND	.54	8.10	25.38	DF4-4PA-2R26
	5	12.0	8.0	H2644-ND	.67	10.05	31.49	DF4-5PA-2R26
	6	14.0	10.0	H2645-ND	.58	10.45	34.20	DF4-6PA-2R26
	7	16.0	12.0	H2646-ND	.63	11.48	37.58	DF4-7PA-2R26
	8	18.0	14.0	H2647-ND	.70	12.58	41.18	DF4-8PA-2R26
	9	20.0	16.0	H2648-ND	.75	13.54	44.33	DF4-9PA-2R26
	10	22.0	18.0	H2649-ND	.81	14.71	48.15	DF4-10PA-2R26
	11	24.0	20.0	H2650-ND	.97	17.53	57.38	DF4-11PA-2R26
	12	26.0	22.0	H2651-ND	1.03	18.63	60.98	DF4-12PA-2R26
	13	28.0	24.0	H2652-ND	1.09	19.66	64.35	DF4-13PA-2R26
	14	30.0	26.0	H2653-ND	1.14	20.69	67.73	DF4-14PA-2R26
	15	32.0	28.0	H2654-ND	1.20	21.79	71.33	DF4-15PA-2R26
				28 AWG				
2	2	6.0	2.0	H2655-ND	.53	6.37	19.00	DF4-2PA-2R28
	3	8.0	4.0	H2656-ND	.46	6.90	21.62	DF4-3PA-2R28
	4	10.0	6.0	H2657-ND	.54	8.10	25.38	DF4-4PA-2R28
	5	12.0	8.0	H2658-ND	.67	10.05	31.49	DF4-5PA-2R28
	6	14.0	10.0	H2659-ND	.58	10.45	34.20	DF4-6PA-2R28
	7	16.0	12.0	H2660-ND	.63	11.48	37.58	DF4-7PA-2R28
	8	18.0	14.0	H2661-ND	.70	12.58	41.18	DF4-8PA-2R28
	9	20.0	16.0	H2662-ND	.75	13.54	44.33	DF4-9PA-2R28
	10	22.0	18.0	H2663-ND	.81	14.71	48.15	DF4-10PA-2R28
	11	24.0	20.0	H2664-ND	.97	17.53	57.38	DF4-11PA-2R28
	12	26.0	22.0	H2665-ND	1.03	18.63	60.98	DF4-12PA-2R28
	13	28.0	24.0	H2666-ND	1.09	19.66	64.35	DF4-13PA-2R28
	14	30.0	26.0	H2667-ND	1.06	19.25	63.00	DF4-14PA-2R28
	15	32.0	28.0	H2668-ND	1.20	21.79	71.33	DF4-15PA-2R28

DF3 Series Single Row Connectors

2mm Pitch (interconnect wire available)

Specifications: • Maximum Current Capacity: 3A • Rated Voltage: 250VAC • Insulation Resistance: Minimum 1000MΩ at 500VDC • Withstand Voltage: 650VAC • Contact Resistance: Maximum 30mΩ at 0.1ADC

Fig. 1

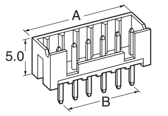

Fig. 2 — SMT

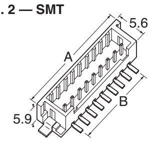

Fig. 3

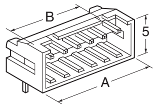

Fig. 4 — SMT

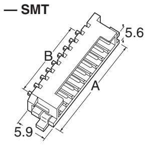

Fig. 5

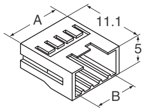

Fig. 6

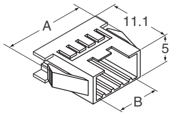

Fig. 7

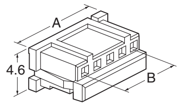

Fig. 8

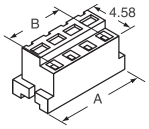

Fig. 9

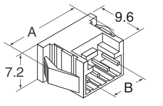

Fig. 10

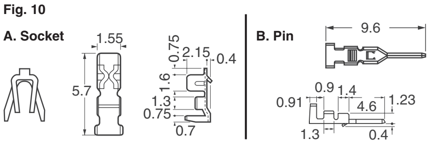

A. Socket

B. Pin

Fig.	No. of Contacts	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
				PIN HEADERS				
				Vertical				
				Tin Plating — RoHS Compliant				
1	2	6	2	H2094-ND	.31	3.32	9.35	DF3A-2P-2DSA
	3	8	4	H2095-ND	.35	3.80	10.73	DF3A-3P-2DSA
	4	10	6	H2096-ND	.34	4.02	12.00	DF3A-4P-2DSA
	5	12	8	H2097-ND	.43	5.19	15.50	DF3A-5P-2DSA
	6	14	10	H2098-ND	.48	5.70	17.00	DF3A-6P-2DSA
	7	16	12	H2099-ND	.41	6.08	19.04	DF3A-7P-2DSA
	8	18	14	H2147-ND	.45	6.75	21.15	DF3A-8P-2DSA

(Continued)

HRS HIROSE ELECTRIC CO.,LTD.

DF3 Series Single Row Connectors *(Cont.)*

2mm Pitch **(interconnect wire available)**

	No. of	Dimension (mm)		Digi-Key		Pricing		Hirose
Fig.	Contacts	A	B	Part No.	1	25	100	Part No.
1	9	20	16	H2101-ND	.49	7.35	23.03	DF3A-9P-2DSA
	10	22	18	H2102-ND	.51	7.65	23.97	DF3A-10P-2DSA
	11	24	20	H2103-ND	.53	7.95	24.91	DF3A-11P-2DSA
	12	26	22	H2104-ND	.55	8.25	25.85	DF3A-12P-2DSA
	13	28	24	HR2021-ND	.57	8.55	26.79	DF3A-13P-2DSA
	14	30	26	HR2022-ND	.59	8.85	27.73	DF3A-14P-2DSA
	15	32	28	HR2023-ND	.62	9.23	28.91	DF3A-15P-2DSA
Tin Plating								
1	13	28	24	H2293-ND	.63	11.34	37.13	DF3-13P-2DSA
	15	32	28	H2295-ND	.68	12.38	40.50	DF3-15P-2DSA
Gold Plating – RoHS Compliant								
1	2	6	2	H3921-ND	.50	7.50	23.50	DF3-2P-2DSA(01)
	3	8	4	H3922-ND	.64	9.60	30.08	DF3-3P-2DSA(01)
	4	10	6	H3923-ND	.57	10.38	33.98	DF3-4P-2DSA(01)
	5	12	8	H3924-ND	.70	12.58	41.18	DF3-5P-2DSA(01)
	6	14	10	H3925-ND	.70	12.72	41.63	DF3-6P-2DSA(01)
	7	16	12	H3926-ND	.87	15.81	51.75	DF3-7P-2DSA(01)
	8	18	14	H3927-ND	.97	17.46	57.15	DF3-8P-2DSA(01)
	9	20	16	H3928-ND	1.07	19.39	63.45	DF3-9P-2DSA(01)
	10	22	18	H3929-ND	1.17	21.18	69.30	DF3-10P-2DSA(01)
	11	24	20	H3930-ND	1.32	23.93	78.30	DF3-11P-2DSA(01)
	12	26	22	H3931-ND	1.42	25.64	83.93	DF3-12P-2DSA(01)
	13	28	24	H3932-ND	1.50	27.23	89.10	DF3-13P-2DSA(01)
	14	30	26	H3933-ND	1.61	29.08	95.18	DF3-14P-2DSA(01)
	15	32	28	H3934-ND	1.69	30.66	100.35	DF3-15P-2DSA(01)
Vertical With Boss, Surface Mount								
Tin Plating								
2	9	22.5	16	H2123-ND	.99	17.88	58.50	DF3-9P-2V(20)
	10	24.5	18	H2124-ND	1.06	19.25	63.00	DF3-10P-2V(20)
	12	28.5	22	H2126-ND	1.14	20.63	67.50	DF3-12P-2V(20)
Tin Plating — RoHS Compliant								
2	2	8.5	2	HR2000-ND	.76	13.75	45.00	DF3Z-2P-2V(20)
	3	10.5	4	HR2001-ND	.76	13.75	45.00	DF3Z-3P-2V(20)
	4	12.5	6	HR2002-ND	.80	14.44	47.25	DF3Z-4P-2V(20)
	5	14.5	8	HR2003-ND	.87	15.81	51.75	DF3Z-5P-2V(20)
	6	16.5	10	HR2019-ND	.87	15.81	51.75	DF3Z-6P-2V(20)
	7	18.5	12	HR2004-ND	.91	16.50	54.00	DF3Z-7P-2V(20)
	8	20.5	14	HR2005-ND	.91	16.50	54.00	DF3Z-8P-2V(20)
	9	22.5	16	HR2006-ND	1.03	18.56	60.75	DF3Z-9P-2V(20)
	10	24.5	18	HR2007-ND	1.10	19.94	65.25	DF3Z-10P-2V(20)
	11	26.5	20	HR2008-ND	1.10	19.94	65.25	DF3Z-11P-2V(20)
	12	28.5	22	HR2009-ND	1.14	20.63	67.50	DF3Z-12P-2V(20)
	13	30.5	24	HR2024-ND	1.18	21.31	69.75	DF3Z-13P-2V(20)
	14	32.5	26	HR2025-ND	1.25	22.69	74.25	DF3Z-14P-2V(20)
	15	34.5	28	HR2026-ND	1.37	24.75	81.00	DF3Z-15P-2V(20)
Gold Plating								
2	12	28.5	22	H3945-ND	1.82	33.00	108.00	DF3-12P-2V(50)
	13	30.5	24	H3946-ND	1.66	31.88	102.00	DF3-13P-2V(50)
Gold Plating — RoHS Compliant								
2	2	8.5	2	HR2058-ND	.76	13.75	45.00	DF3Z-2P-2V(50)
	3	10.5	4	HR2059-ND	.87	15.81	51.75	DF3Z-3P-2V(50)
	4	12.5	6	HR2060-ND	.99	17.88	58.50	DF3Z-4P-2V(50)
	5	14.5	8	HR2061-ND	1.10	19.94	65.25	DF3Z-5P-2V(50)
	6	16.5	10	HR2062-ND	1.14	20.63	67.50	DF3Z-6P-2V(50)
	7	18.5	12	HR2063-ND	1.18	21.31	69.75	DF3Z-7P-2V(50)
	8	20.5	14	HR2064-ND	1.29	23.38	76.50	DF3Z-8P-2V(50)
	9	22.5	16	HR2065-ND	1.48	26.81	87.75	DF3Z-9P-2V(50)
	10	24.5	18	HR2066-ND	1.63	29.56	96.75	DF3Z-10P-2V(50)
	11	26.5	20	HR2067-ND	1.79	32.31	105.75	DF3Z-11P-2V(50)
	12	28.5	22	HR2068-ND	1.82	33.00	108.00	DF3Z-12P-2V(50)
	13	30.5	24	HR2069-ND	1.66	31.88	102.00	DF3Z-13P-2V(50)
	14	32.5	26	HR2070-ND	1.76	33.75	108.00	DF3Z-14P-2V(50)
	15	34.5	28	HR2071-ND	1.85	35.63	114.00	DF3Z-15P-2V(50)
Vertical Without Boss, Surface Mount								
Tin Plating								
2	6	16.5	10	H3953-ND	.95	17.19	56.25	DF3D-6P-2V(20)
	10	24.5	18	H3957-ND	1.10	19.94	65.25	DF3D-10P-2V(20)
Tin Plating — RoHS Compliant								
2	2	8.5	2	HR2072-ND	.76	13.75	45.00	DF3DZ-2P-2V(20)
	3	10.5	4	HR2073-ND	.80	14.44	47.25	DF3DZ-3P-2V(20)
	4	12.5	6	HR2074-ND	.87	15.81	51.75	DF3DZ-4P-2V(20)
	5	14.5	8	HR2075-ND	.91	16.50	54.00	DF3DZ-5P-2V(20)
	6	16.5	10	HR2076-ND	.99	17.88	58.50	DF3DZ-6P-2V(20)
	7	18.5	12	HR2077-ND	1.03	18.56	60.75	DF3DZ-7P-2V(20)
	8	20.5	14	HR2078-ND	1.10	19.94	65.25	DF3DZ-8P-2V(20)
	9	22.5	16	HR2079-ND	1.10	19.94	65.25	DF3DZ-9P-2V(20)
	10	24.5	18	HR2080-ND	1.14	20.63	67.50	DF3DZ-10P-2V(20)
	11	26.5	20	HR2081-ND	1.18	21.31	69.75	DF3DZ-11P-2V(20)
	12	28.5	22	HR2082-ND	1.25	22.69	74.25	DF3DZ-12P-2V(20)
	13	30.5	24	HR2083-ND	1.29	23.38	76.50	DF3DZ-13P-2V(20)
	14	32.5	26	HR2084-ND	1.37	24.75	81.00	DF3DZ-14P-2V(20)
	15	34.5	28	HR2085-ND	1.41	25.44	83.25	DF3DZ-15P-2V(20)
Gold Plating								
2	2	8.5	2	H3963-ND	.72	13.06	42.75	DF3D-2P-2V(50)
	7	18.5	12	H3968-ND	1.22	22.00	72.00	DF3D-7P-2V(50)
	8	20.5	14	H3969-ND	1.33	24.06	78.75	DF3D-8P-2V(50)
2	9	22.5	16	H3970-ND	1.48	26.81	87.75	DF3D-9P-2V(50)
	12	28.5	22	H3973-ND	1.82	33.00	108.00	DF3D-12P-2V(50)
	14	32.5	26	H3975-ND	1.76	33.75	108.00	DF3D-14P-2V(50)
Gold Plating — RoHS Compliant								
2	2	8.5	2	HR2086-ND	.76	13.75	45.00	DF3DZ-2P-2V(50)
	3	10.5	4	HR2087-ND	.87	15.81	51.75	DF3DZ-3P-2V(50)
	4	12.5	6	HR2088-ND	.99	17.88	58.50	DF3DZ-4P-2V(50)
	5	14.5	8	HR2089-ND	1.10	19.94	65.25	DF3DZ-5P-2V(50)
	6	16.5	10	HR2090-ND	1.14	20.63	67.50	DF3DZ-6P-2V(50)
	7	18.5	12	HR2091-ND	1.18	21.31	69.75	DF3DZ-7P-2V(50)
	8	20.5	14	HR2092-ND	1.29	23.38	76.50	DF3DZ-8P-2V(50)
	9	22.5	16	HR2093-ND	1.48	26.81	87.75	DF3DZ-9P-2V(50)
	10	24.5	18	HR2094-ND	1.63	29.56	96.75	DF3DZ-10P-2V(50)
	11	26.5	20	HR2095-ND	1.79	32.31	105.75	DF3DZ-11P-2V(50)
	12	28.5	22	HR2096-ND	1.82	33.00	108.00	DF3DZ-12P-2V(50)
	13	30.5	24	HR2097-ND	1.66	31.88	102.00	DF3DZ-13P-2V(50)
	14	32.5	26	HR2098-ND	1.76	33.75	108.00	DF3DZ-14P-2V(50)
	15	34.5	28	HR2099-ND	1.85	35.63	114.00	DF3DZ-15P-2V(50)
Right Angle								
Tin Plating (post plated contact)								
3	6	14	10	H2109-ND	.58	8.70	27.26	DF3-6P-2DS
	14	30	26	H2311-ND	.80	14.44	47.25	DF3-14P-2DS
	15	32	28	H2312-ND	.82	14.92	48.83	DF3-15P-2DS
Tin Plating (pre-plated contact) – RoHS Compliant								
3	2	6	2	H3893-ND	.34	3.71	10.45	DF3A-2P-2DS
	3	8	4	H3894-ND	.33	3.94	11.75	DF3A-3P-2DS
	4	10	6	H3895-ND	.38	4.52	13.50	DF3A-4P-2DS
	5	12	8	H3896-ND	.50	5.95	17.75	DF3A-5P-2DS
	6	14	10	H3897-ND	.53	6.28	18.75	DF3A-6P-2DS
	7	16	12	H3898-ND	.41	6.08	19.04	DF3A-7P-2DS
	8	18	14	H3899-ND	.54	8.03	25.15	DF3A-8P-2DS
	9	20	16	H3900-ND	.58	8.63	27.03	DF3A-9P-2DS
	10	22	18	H3901-ND	.60	9.00	28.20	DF3A-10P-2DS
	11	24	20	H3902-ND	.63	9.38	29.38	DF3A-11P-2DS
	12	26	22	H3903-ND	.65	9.75	30.55	DF3A-12P-2DS
	13	28	24	H3904-ND	.68	10.13	31.73	DF3A-13P-2DS
	14	30	26	H3905-ND	.70	10.43	32.67	DF3A-14P-2DS
	15	32	28	H3906-ND	.72	10.80	33.84	DF3A-15P-2DS
Gold Plating – RoHS Compliant								
3	2	6	2	H3907-ND	.58	8.63	27.03	DF3-2P-2DS(01)
	3	8	4	H3908-ND	.75	11.18	35.02	DF3-3P-2DS(01)
	4	10	6	H3909-ND	.67	12.10	39.60	DF3-4P-2DS(01)
	5	12	8	H3910-ND	.82	14.78	48.38	DF3-5P-2DS(01)
	6	14	10	H3911-ND	.93	16.78	54.90	DF3-6P-2DS(01)
	7	16	12	H3912-ND	1.04	18.77	61.43	DF3-7P-2DS(01)
	8	18	14	H3913-ND	1.14	20.63	67.50	DF3-8P-2DS(01)
	9	20	16	H3914-ND	1.28	23.24	76.05	DF3-9P-2DS(01)
	10	22	18	H3915-ND	1.39	25.23	82.58	DF3-10P-2DS(01)
	11	24	20	H3916-ND	1.58	28.60	93.60	DF3-11P-2DS(01)
	12	26	22	H3917-ND	1.69	30.59	100.13	DF3-12P-2DS(01)
	13	28	24	H3918-ND	1.79	32.45	106.20	DF3-13P-2DS(01)
	14	30	26	H3919-ND	1.63	31.38	100.40	DF3-14P-2DS(01)
	15	32	28	H3920-ND	1.72	33.13	106.00	DF3-15P-2DS(01)
Right Angle With Boss, Surface Mount								
Tin Plating								
4	11	26.5	20	H2136-ND	1.14	20.63	67.50	DF3-11P-2H(20)
Tin Plating — RoHS Compliant								
4	2	8.5	2	HR2010-ND	.76	13.75	45.00	DF3Z-2P-2H(20)
	3	10.5	4	HR2011-ND	.76	13.75	45.00	DF3Z-3P-2H(20)
	4	12.5	6	HR2012-ND	.80	14.44	47.25	DF3Z-4P-2H(20)
	5	14.5	8	HR2013-ND	.87	15.81	51.75	DF3Z-5P-2H(20)
	6	16.5	10	HR2014-ND	.91	16.50	54.00	DF3Z-6P-2H(20)
	7	18.5	12	HR2020-ND	.91	16.50	54.00	DF3Z-7P-2H(20)
	8	20.5	14	HR2015-ND	.99	17.88	58.50	DF3Z-8P-2H(20)
	10	24.5	18	HR2016-ND	1.10	19.94	65.25	DF3Z-10P-2H(20)
	11	26.5	20	HR2017-ND	1.14	20.63	67.50	DF3Z-11P-2H(20)
	12	28.5	22	HR2018-ND	1.14	20.63	67.50	DF3Z-12P-2H(20)
	13	30.5	24	HR2027-ND	1.25	22.69	74.25	DF3Z-13P-2H(20)
	14	32.5	26	HR2028-ND	1.29	23.38	76.50	DF3Z-14P-2H(20)
	15	34.5	28	HR2029-ND	1.37	24.75	81.00	DF3Z-15P-2H(20)
Gold Plating								
4	8	20.5	14	H3983-ND	3.15	60.63	194.00	DF3-8P-2H(50)
	9	22.5	16	H3984-ND	3.05	59.06	189.00	DF3-9P-2H(50)
	11	26.5	20	H3986-ND	3.36	65.25	208.80	DF3-11P-2H(50)
Gold Plating — RoHS Compliant								
4	2	8.5	2	HR2100-ND	1.92	36.88	118.00	DF3Z-2P-2H(50)
	3	10.5	4	HR2101-ND	2.08	40.00	128.00	DF3Z-3P-2H(50)
	4	12.5	6	HR2102-ND	2.28	43.75	140.00	DF3Z-4P-2H(50)
	5	14.5	8	HR2103-ND	2.57	49.38	158.00	DF3Z-5P-2H(50)
	6	16.5	10	HR2104-ND	2.73	52.50	168.00	DF3Z-6P-2H(50)
	7	18.5	12	HR2105-ND	2.89	55.63	178.00	DF3Z-7P-2H(50)
	8	20.5	14	HR2106-ND	3.12	60.00	192.00	DF3Z-8P-2H(50)
	9	22.5	16	HR2107-ND	3.02	58.50	187.20	DF3Z-9P-2H(50)
	10	24.5	18	HR2108-ND	3.19	61.88	198.00	DF3Z-10P-2H(50)
	11	26.5	20	HR2109-ND	3.31	64.13	205.20	DF3Z-11P-2H(50)
	12	28.5	22	HR2110-ND	3.54	68.63	219.60	DF3Z-12P-2H(50)
	13	30.5	24	HR2111-ND	3.68	71.44	228.60	DF3Z-13P-2H(50)
	14	32.5	26	HR2112-ND	3.89	75.38	241.20	DF3Z-14P-2H(50)
	15	34.5	28	HR2113-ND	4.06	78.75	252.00	DF3-15P-2H(50)

(Continued)

DF3 Series Single Row Connectors *(Cont.)*

2mm Pitch (interconnect wire available)

Fig.	No. of Contacts	Dimension (mm)		Digi-Key	Pricing			Hirose
		A	B	Part No.	1	25	100	Part No.
Right Angle Without Boss, Surface Mount								
Tin Plating								
4	4	12.5	6	H3993-ND	.84	15.13	49.50	DF3D-4P-2H(20)
	5	14.5	8	H3994-ND	.87	15.81	51.75	DF3D-5P-2H(20)
	6	16.5	10	H3995-ND	.95	17.19	56.25	DF3D-6P-2H(20)
	12	28.5	22	H4001-ND	1.22	22.00	72.00	DF3D-12P-2H(20)
Tin Plating — RoHS Compliant								
4	2	8.5	2	HR2114-ND	.76	13.75	45.00	DF3DZ-2P-2H(20)
	3	10.5	4	HR2115-ND	.80	14.44	47.25	DF3DZ-3P-2H(20)
	4	12.5	6	HR2116-ND	.87	15.81	51.75	DF3DZ-4P-2H(20)
	5	14.5	8	HR2117-ND	.91	16.50	54.00	DF3DZ-5P-2H(20)
	6	16.5	10	HR2118-ND	.99	17.88	58.50	DF3DZ-6P-2H(20)
	7	18.5	12	HR2119-ND	1.03	18.56	60.75	DF3DZ-7P-2H(20)
	8	20.5	14	HR2120-ND	1.10	19.94	65.25	DF3DZ-8P-2H(20)
	9	22.5	16	HR2121-ND	1.10	19.94	65.25	DF3DZ-9P-2H(20)
	10	24.5	18	HR2122-ND	1.14	20.63	67.50	DF3DZ-10P-2H(20)
	11	26.5	20	HR2123-ND	1.18	21.31	69.75	DF3DZ-11P-2H(20)
	12	28.5	22	HR2124-ND	1.25	22.69	74.25	DF3DZ-12P-2H(20)
	13	30.5	24	HR2125-ND	1.29	23.38	76.50	DF3DZ-13P-2H(20)
	14	32.5	26	HR2126-ND	1.37	24.75	81.00	DF3DZ-14P-2H(20)
	15	34.5	28	HR2127-ND	1.41	25.44	83.25	DF3DZ-15P-2H(20)
Gold Plating								
4	5	14.5	8	H4008-ND	2.54	48.75	156.00	DF3D-5P-2H(50)
	9	22.5	16	H4012-ND	3.05	59.06	189.00	DF3D-9P-2H(50)
Gold Plating — RoHS Compliant								
4	2	8.5	2	HR2128-ND	1.92	36.88	118.00	DF3DZ-2P-2H(50)
	3	10.5	4	HR2129-ND	2.08	40.00	128.00	DF3DZ-3P-2H(50)
	4	12.5	6	HR2130-ND	2.28	43.75	140.00	DF3DZ-4P-2H(50)
	5	14.5	8	HR2131-ND	2.57	49.38	158.00	DF3DZ-5P-2H(50)
	6	16.5	10	HR2132-ND	2.73	52.50	168.00	DF3DZ-6P-2H(50)
	7	18.5	12	HR2133-ND	2.89	55.63	178.00	DF3DZ-7P-2H(50)
	8	20.5	14	HR2134-ND	3.12	60.00	192.00	DF3DZ-8P-2H(50)
	9	22.5	16	HR2135-ND	3.02	58.50	187.20	DF3DZ-9P-2H(50)
	10	24.5	18	HR2136-ND	3.19	61.88	198.00	DF3DZ-10P-2H(50)
	11	26.5	20	HR2137-ND	3.31	64.13	205.20	DF3DZ-11P-2H(50)
	12	28.5	22	HR2138-ND	3.54	68.63	219.60	DF3DZ-12P-2H(50)
	13	30.5	24	HR2139-ND	3.68	71.44	228.60	DF3DZ-13P-2H(50)
	14	32.5	26	HR2140-ND	3.89	75.38	241.20	DF3DZ-14P-2H(50)
	15	34.5	28	HR2141-ND	4.06	78.75	252.00	DF3DZ-15P-2H(50)
IN-LINE PLUG – RoHS Compliant (order contacts separately)								
5	2	6	2	H4035-ND	.39	4.69	14.00	DF3-2EP-2C
	3	8	4	H4036-ND	.45	5.36	16.00	DF3-3EP-2C
	4	10	6	H4037-ND	.49	5.86	17.50	DF3-4EP-2C
	5	12	8	H4038-ND	.53	6.37	19.00	DF3-5EP-2C
	6	14	10	H4039-ND	.41	6.15	19.27	DF3-6EP-2C
	7	16	12	H4040-ND	.47	6.98	21.86	DF3-7EP-2C
	8	18	14	H4041-ND	.50	7.50	23.50	DF3-8EP-2C
	9	20	16	H4042-ND	.52	7.80	24.44	DF3-9EP-2C
	10	22	18	H4043-ND	.57	8.48	26.56	DF3-10EP-2C
	11	24	20	H4045-ND	.58	8.70	27.26	DF3-11EP-2C
	12	26	22	H4046-ND	.63	9.45	29.61	DF3-12EP-2C
	13	28	24	H4047-ND	.66	9.90	31.02	DF3-13EP-2C
	14	30	26	H4048-ND	.69	10.35	32.43	DF3-14EP-2C
	15	32	28	H4049-ND	.73	10.95	34.31	DF3-15EP-2C
With Panel Lock								
6	2	11	2	H4051-ND	.47	5.61	16.75	DF3AA-2EP-2C
	3	13	4	H4052-ND	.53	6.37	19.00	DF3AA-3EP-2C
	4	15	6	H4053-ND	.41	6.15	19.27	DF3AA-4EP-2C
	5	17	8	H4054-ND	.46	6.83	21.39	DF3AA-5EP-2C
	6	19	10	H4055-ND	.49	7.35	23.03	DF3AA-6EP-2C
	7	21	12	H4056-ND	.53	7.88	24.68	DF3AA-7EP-2C
	8	23	14	H4057-ND	.56	8.40	26.32	DF3AA-8EP-2C
	9	25	16	H4058-ND	.60	9.00	28.20	DF3AA-9EP-2C
	10	27	18	H4059-ND	.64	9.53	29.85	DF3AA-10EP-2C
	11	29	20	H4060-ND	.68	10.13	31.73	DF3AA-11EP-2C
	12	31	22	H4061-ND	.71	10.65	33.37	DF3AA-12EP-2C
	13	33	24	H4062-ND	.57	10.31	33.75	DF3AA-13EP-2C
	14	35	26	H4063-ND	.60	10.79	35.33	DF3AA-14EP-2C
	15	37	28	H4065-ND	.63	11.34	37.13	DF3AA-15EP-2C
CRIMP SOCKET – RoHS Compliant (order contacts separately)								
7	2	6	2	H2083-ND	.24	2.50	6.20	DF3-2S-2C
	3	8	4	H2084-ND	.26	2.75	6.82	DF3-3S-2C
	4	10	6	H2085-ND	.28	2.88	7.13	DF3-4S-2C
	5	12	8	H2086-ND	.29	3.12	8.80	DF3-5S-2C
	6	14	10	H2087-ND	.31	3.32	9.35	DF3-6S-2C
	7	16	12	H2088-ND	.33	3.61	10.18	DF3-7S-2C
	8	18	14	H2089-ND	.28	3.35	10.00	DF3-8S-2C
	9	20	16	H2146-ND	.30	3.60	10.75	DF3-9S-2C
	10	22	18	H2091-ND	.32	3.77	11.25	DF3-10S-2C
	11	24	20	H2092-ND	.33	3.94	11.75	DF3-11S-2C
	12	26	22	H2093-ND	.34	4.10	12.25	DF3-12S-2C
	13	28	24	H2290-ND	.36	4.27	12.75	DF3-13S-2C
	14	30	26	H2291-ND	.37	4.44	13.25	DF3-14S-2C
	15	32	28	H2292-ND	.38	4.52	13.50	DF3-15S-2C

Fig.	No. of Contacts	Dimension (mm)		Digi-Key	Pricing			Hirose
		A	B	Part No.	1	25	100	Part No.
RECEPTACLE								
Tin Plating								
8	4	10	6	H3867-ND	.95	17.19	56.25	DF3-4S-2DSA(20)
	6	14	10	H3869-ND	1.14	20.63	67.50	DF3-6S-2DSA(20)
	8	18	14	H3871-ND	1.37	24.75	81.00	DF3-8S-2DSA(20)
	12	26	22	H3875-ND	1.66	31.88	102.00	DF3-12S-2DSA(20)
Tin Plating — RoHS Compliant								
8	2	6	2	HR2030-ND	.76	13.75	45.00	DF3-2S-2DSA(25)
	3	8	4	HR2031-ND	.87	15.81	51.75	DF3-3S-2DSA(25)
	4	10	6	HR2032-ND	.99	17.88	58.50	DF3-4S-2DSA(25)
	5	12	8	HR2033-ND	1.10	19.94	65.25	DF3-5S-2DSA(25)
	6	14	10	HR2034-ND	1.18	21.31	69.75	DF3-6S-2DSA(25)
	7	16	12	HR2035-ND	1.29	23.38	76.50	DF3-7S-2DSA(25)
	8	18	14	HR2036-ND	1.41	25.44	83.25	DF3-8S-2DSA(25)
	9	20	16	HR2037-ND	1.63	29.56	96.75	DF3-9S-2DSA(25)
	10	22	18	HR2038-ND	1.75	31.63	103.50	DF3-10S-2DSA(25)
	11	24	20	HR2039-ND	1.82	33.00	108.00	DF3-11S-2DSA(25)
	12	26	22	HR2040-ND	1.72	33.13	106.00	DF3-12S-2DSA(25)
	13	28	24	HR2041-ND	1.76	33.75	108.00	DF3-13S-2DSA(25)
	14	30	26	HR2042-ND	1.92	36.88	118.00	DF3-14S-2DSA(25)
	15	32	28	HR2043-ND	2.41	46.25	148.00	DF3-15S-2DSA(25)
Gold Plating								
8	3	8	4	H3880-ND	1.06	19.25	63.00	DF3-3S-2DSA(50)
	4	10	6	H3881-ND	1.33	24.06	78.75	DF3-4S-2DSA(50)
	5	12	8	H3882-ND	1.44	26.13	85.50	DF3-5S-2DSA(50)
	12	26	22	H3889-ND	2.41	46.25	148.00	DF3-12S-2DSA(50)
Gold Plating — RoHS Compliant								
8	2	6	2	HR2044-ND	.87	15.81	51.75	DF3-2S-2DSA(55)
	3	8	4	HR2045-ND	1.10	19.94	65.25	DF3-3S-2DSA(55)
	4	10	6	HR2046-ND	1.25	22.69	74.25	DF3-4S-2DSA(55)
	5	12	8	HR2047-ND	1.48	26.81	87.75	DF3-5S-2DSA(55)
	6	14	10	HR2048-ND	1.67	30.25	99.00	DF3-6S-2DSA(55)
	7	16	12	HR2049-ND	1.63	31.25	100.00	DF3-7S-2DSA(55)
	8	18	14	HR2050-ND	1.76	33.75	108.00	DF3-8S-2DSA(55)
	9	20	16	HR2051-ND	1.95	37.50	120.00	DF3-9S-2DSA(55)
	10	22	18	HR2052-ND	2.08	40.00	128.00	DF3-10S-2DSA(55)
	11	24	20	HR2053-ND	2.28	43.75	140.00	DF3-11S-2DSA(55)
	12	26	22	HR2054-ND	2.50	48.13	154.00	DF3-12S-2DSA(55)
	13	28	24	HR2055-ND	2.63	50.63	162.00	DF3-13S-2DSA(55)
	14	30	26	HR2056-ND	2.83	54.38	174.00	DF3-14S-2DSA(55)
	15	32	28	HR2057-ND	3.02	58.50	187.20	DF3-15S-2DSA(55)
ADAPTER IN-LINE WITH PANEL LOCK – RoHS Compliant								
9	2	11	2	H4019-ND	.71	12.79	41.85	DF3-2EP-2A
	3	13	4	H4021-ND	.79	14.23	46.58	DF3-3EP-2A
	4	15	6	H4022-ND	.87	15.74	51.53	DF3-4EP-2A
	5	17	8	H4023-ND	.95	17.26	56.48	DF3-5EP-2A
	6	19	10	H4024-ND	1.05	19.04	62.33	DF3-6EP-2A
	7	21	12	H4025-ND	1.14	20.56	67.28	DF3-7EP-2A
	8	23	14	H4026-ND	1.21	21.93	71.78	DF3-8EP-2A
	9	25	16	H4027-ND	1.30	23.44	76.73	DF3-9EP-2A
	10	27	18	H4028-ND	1.38	25.03	81.90	DF3-10EP-2A
	11	29	20	H4029-ND	1.47	26.54	86.85	DF3-11EP-2A
	12	31	22	H4030-ND	1.56	28.19	92.25	DF3-12EP-2A
	13	33	24	H4031-ND	1.65	29.77	97.43	DF3-13EP-2A
	14	35	26	H4033-ND	1.73	31.21	102.15	DF3-14EP-2A
	15	37	28	H4034-ND	1.81	32.73	107.10	DF3-15EP-2A

Crimping Contacts

AWG	Digi-Key Part No.	*Bulk* Pricing 100	Hirose Part No.	*Cut Tape** Pricing		*T & R†* Pricing 10,000	Hirose Part No.
				100	500		
Socket Contacts - Fig. 10A – RoHS Compliant							
Tin Plating							
22	H4066-ND	6.88	DF3-22SC	7.98	27.55	17.00/M	DF3-22SCF
24-28	H1500-ND	6.82	DF3-2428SC	7.15	24.70	10.00/M	DF3-2428SCF
Gold Plating							
24-28	H1501-ND	10.18	DF3-2428SCC	10.25	36.90	34.00/M	DF3-2428SCFC
Plug Contacts - Fig. 10B – RoHS Compliant							
Tin Plating							
24-28	H1502-ND	7.43	DF3-EP2428PC	8.53	29.45	17.00/M	DF3-EP2428PCF
Gold Plating							
24-28	H1503-ND	19.04	DF3-EP2428PCA	19.98	72.25	49.00/M	DF3-EP2428PCFA

* For Cut Tape, change -ND to CT-ND.
† For Tape and Reel, change -ND to TR-ND.

Tools

AWG	Description	Digi-Key Part No.	Price Each	Hirose Part No.
22	Hand Crimp Tool for Socket, with Non-Removeable Die	H4454-ND	834.60	DF3-TA22-HC
24-28	Hand Crimp Tool for Socket, with Non-Removeable Die	H9997-ND	821.60	DF3-TA2428HC
24-28	Hand Crimp Tool for Pin, with Non-Removeable Die	H2308-ND	821.60	DF3EP-TA2428HC
24-28	Hand Crimp Tool with Die Set	H9923-ND	593.18	DF3-TA2428HC/US
—	Hand Tool without Die Set	H9926-ND	344.47	HRUS-HT-1
24-28	Die Set for H9926-ND	H9927-ND	248.71	DF3-TA2428HC/US-DS

HIROSE
ELECTRIC
CO.,LTD.

DF11 Series Dual Row Connectors

2mm Pitch *(Interconnect wire available)*

Specifications:

• Current Capacity: 2A with 24AWG cable • Rated Voltage: 250VAC • Insulation Resistance: Minimum 1000MΩ at 500VDC • Withstand Voltage: 650VAC • Contact Resistance: Maximum 30mΩ at 0.1ADC

Fig. 1

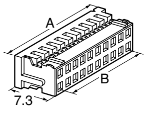

Fig. 2

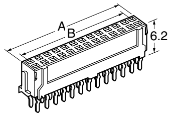

Fig. 3 — Surface Mount

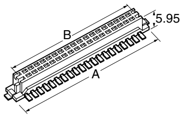

Fig. 4

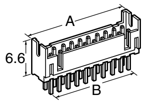

Fig. 5

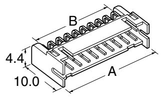

Fig. 6 — Surface Mount

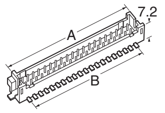

Fig. 7

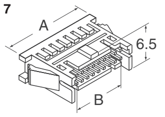

Fig. 8

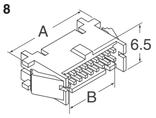

Fig. 9

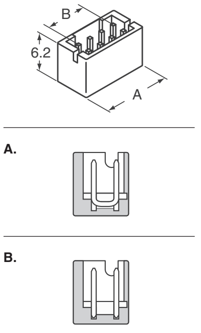

A.

B.

Fig. 10 — Socket

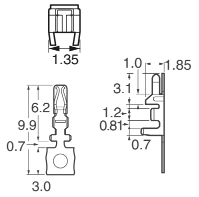

Fig. 11 — Pin

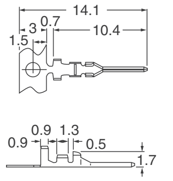

Fig.	No. of Pins	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Dual Row Crimp Socket — RoHS Compliant								
1	4	6.0	2.0	H2019-ND	.28	3.35	10.00	DF11-4DS-2C
	6	8.0	4.0	H2021-ND	.30	3.60	10.75	DF11-6DS-2C
	8	10.0	6.0	H2022-ND	.36	4.27	12.75	DF11-8DS-2C
	10	12.0	8.0	H2023-ND	.36	4.27	12.75	DF11-10DS-2C
	12	14.0	10.0	H2024-ND	.39	4.61	13.75	DF11-12DS-2C
	14	16.0	12.0	H2140-ND	.41	4.86	14.50	DF11-14DS-2C
	16	18.0	14.0	H2025-ND	.44	5.28	15.75	DF11-16DS-2C
	18	20.0	16.0	H2026-ND	.46	5.53	16.50	DF11-18DS-2C
	20	22.0	18.0	H2027-ND	.48	5.78	17.25	DF11-20DS-2C
	22	24.0	20.0	H2028-ND	.50	6.03	18.00	DF11-22DS-2C
	24	26.0	22.0	H2029-ND	.53	6.37	19.00	DF11-24DS-2C
	26	28.0	24.0	H2261-ND	.41	6.08	19.04	DF11-26DS-2C
	28	30.0	26.0	H2262-ND	.43	6.45	20.21	DF11-28DS-2C
	30	32.0	28.0	H2263-ND	.47	6.98	21.86	DF11-30DS-2C
	32	34.0	30.0	H2264-ND	.52	7.80	24.44	DF11-32DS-2C
Vertical PCB Socket, Tin — RoHS Compliant								
2	6	8.0	4.0	H10169-ND	.99	17.88	58.50	DF11-6DS-2DSA(05)
	8	10.0	6.0	H10170-ND	1.06	19.25	63.00	DF11-8DS-2DSA(05)
	10	12.0	8.0	H10171-ND	1.18	21.31	69.75	DF11-10DS-2DSA(05)
	12	14.0	10.0	H10172-ND	1.25	22.69	74.25	DF11-12DS-2DSA(05)
	14	16.0	12.0	H10173-ND	1.37	24.75	81.00	DF11-14DS-2DSA(05)
	16	18.0	14.0	H10174-ND	1.48	26.81	87.75	DF11-16DS-2DSA(05)
	18	20.0	16.0	H10175-ND	1.60	28.88	94.50	DF11-18DS-2DSA(05)
	20	22.0	18.0	H10176-ND	1.75	31.63	103.50	DF11-20DS-2DSA(05)
	22	24.0	20.0	H10177-ND	1.82	33.00	108.00	DF11-22DS-2DSA(05)
	24	26.0	22.0	H10178-ND	1.66	31.88	102.00	DF11-24DS-2DSA(05)
	26	28.0	24.0	H10179-ND	1.72	33.13	106.00	DF11-26DS-2DSA(05)
	28	30.0	26.0	H10180-ND	1.82	35.00	112.00	DF11-28DS-2DSA(05)
	30	32.0	28.0	H10181-ND	1.89	36.25	116.00	DF11-30DS-2DSA(05)
	32	34.0	30.0	H10182-ND	1.98	38.13	122.00	DF11-32DS-2DSA(05)
Vertical PCB Socket, Gold								
2	18	20.0	16.0	H2826-ND	2.88	55.31	177.00	DF11-18DS-2DSA(01)
Vertical PCB Socket, Gold — RoHS Compliant								
2	6	8.0	4.0	H10183-ND	1.60	28.88	94.50	DF11-6DS-2DSA(06)
	8	10.0	6.0	H10184-ND	1.86	33.69	110.25	DF11-8DS-2DSA(06)
	10	12.0	8.0	H10185-ND	1.82	35.00	112.00	DF11-10DS-2DSA(06)
	12	14.0	10.0	H10186-ND	2.08	40.00	128.00	DF11-12DS-2DSA(06)
	14	16.0	12.0	H10187-ND	2.34	45.00	144.00	DF11-14DS-2DSA(06)
	16	18.0	14.0	H10188-ND	2.60	50.00	160.00	DF11-16DS-2DSA(06)
	18	20.0	16.0	H10189-ND	2.86	55.00	176.00	DF11-18DS-2DSA(06)
	20	22.0	18.0	H10190-ND	3.15	60.63	194.00	DF11-20DS-2DSA(06)
	22	24.0	20.0	H10191-ND	3.02	58.50	187.20	DF11-22DS-2DSA(06)
	24	26.0	22.0	H10192-ND	3.25	63.00	201.60	DF11-24DS-2DSA(06)
	26	28.0	24.0	H10193-ND	3.48	67.50	216.00	DF11-26DS-2DSA(06)
	28	30.0	26.0	H10194-ND	3.68	71.44	228.60	DF11-28DS-2DSA(06)
	30	32.0	28.0	H10195-ND	3.92	75.94	243.00	DF11-30DS-2DSA(06)
	32	34.0	30.0	H10196-ND	4.12	79.88	255.60	DF11-32DS-2DSA(06)
Surface Mount Vertical Socket, Tin								
3	4	8.5	2.0	H2039-ND	1.10	19.94	65.25	DF11-4DS-2V(20)
	8	12.5	6.0	H2041-ND	1.48	26.81	87.75	DF11-8DS-2V(20)
	14	18.5	12.0	H2142-ND	1.86	33.69	110.25	DF11-14DS-2V(20)
	16	20.5	14.0	H2045-ND	1.76	33.75	108.00	DF11-16DS-2V(20)
	18	22.5	16.0	H2046-ND	1.89	36.25	116.00	DF11-18DS-2V(20)
Surface Mount Vertical Socket, Tin — RoHS Compliant								
3	4	8.5	2.0	H10197-ND	1.03	18.56	60.75	DF11Z-4DS-2V(20)
	6	10.5	4.0	H10198-ND	1.06	19.25	63.00	DF11Z-6DS-2V(20)
	8	12.5	6.0	H10199-ND	1.22	22.00	72.00	DF11Z-8DS-2V(20)
	10	14.5	8.0	H10200-ND	1.29	23.38	76.50	DF11Z-10DS-2V(20)
	12	16.5	10.0	H10201-ND	1.44	26.13	85.50	DF11Z-12DS-2V(20)
	14	18.5	12.0	H10202-ND	1.60	28.88	94.50	DF11Z-14DS-2V(20)
	16	20.5	14.0	H10203-ND	1.71	30.94	101.25	DF11Z-16DS-2V(20)
	18	22.5	16.0	H10204-ND	1.82	33.00	108.00	DF11Z-18DS-2V(20)
	20	24.5	18.0	H10205-ND	1.69	32.50	104.00	DF11Z-20DS-2V(20)
	22	26.5	20.0	H10206-ND	1.85	35.63	114.00	DF11Z-22DS-2V(20)
	24	28.5	22.0	H10207-ND	1.92	36.88	118.00	DF11Z-24DS-2V(20)
	26	30.5	24.0	H10208-ND	2.11	40.63	130.00	DF11Z-26DS-2V(20)
	28	32.5	26.0	H10209-ND	2.21	42.50	136.00	DF11Z-28DS-2V(20)
	30	34.5	28.0	H10210-ND	2.34	45.00	144.00	DF11Z-30DS-2V(20)
	32	36.5	30.0	H10211-ND	2.47	47.50	152.00	DF11Z-32DS-2V(20)
	40	44.5	38.0	H10212-ND	3.02	58.13	186.00	DF11Z-40DS-2V(20)
Surface Mount Vertical Socket, Gold								
3	4	8.5	2.0	H2834-ND	1.44	26.13	85.50	DF11-4DS-2V(50)
	8	12.5	6.0	H2836-ND	1.76	33.75	108.00	DF11-8DS-2V(50)
	22	26.5	20.0	H2843-ND	3.10	60.19	192.60	DF11-22DS-2V(50)
	28	32.5	26.0	H2846-ND	3.83	74.25	237.60	DF11-28DS-2V(50)
Surface Mount Vertical Socket, Gold — RoHS Compliant								
3	4	8.5	2.0	H10213-ND	1.56	28.19	92.25	DF11Z-4DS-2V(50)
	6	10.5	4.0	H10214-ND	1.79	32.31	105.75	DF11Z-6DS-2V(50)
	8	12.5	6.0	H10215-ND	1.76	33.75	108.00	DF11Z-8DS-2V(50)
	10	14.5	8.0	H10216-ND	2.02	38.75	124.00	DF11Z-10DS-2V(50)
	12	16.5	10.0	H10217-ND	2.28	43.75	140.00	DF11Z-12DS-2V(50)
	14	18.5	12.0	H10218-ND	2.47	47.50	152.00	DF11Z-14DS-2V(50)
	16	20.5	14.0	H10219-ND	2.73	52.50	168.00	DF11Z-16DS-2V(50)
	18	22.5	16.0	H10220-ND	2.99	57.50	184.00	DF11Z-18DS-2V(50)
	20	24.5	18.0	H10221-ND	3.22	61.88	198.00	DF11Z-20DS-2V(50)
	22	26.5	20.0	H10222-ND	3.13	60.75	194.40	DF11Z-22DS-2V(50)
	24	28.5	22.0	H10223-ND	3.36	65.25	208.80	DF11Z-24DS-2V(50)
	26	30.5	24.0	H10224-ND	3.68	71.44	228.60	DF11Z-26DS-2V(50)
	28	32.5	26.0	H10225-ND	3.86	74.81	239.40	DF11Z-28DS-2V(50)
	30	34.5	28.0	H10226-ND	4.15	80.44	257.40	DF11Z-30DS-2V(50)
	32	36.5	30.0	H10227-ND	4.35	84.38	270.00	DF11Z-32DS-2V(50)
	40	44.5	38.0	H10228-ND	5.37	104.06	333.00	DF11Z-40DS-2V(50)
Vertical Protected Header, Tin								
4	24	26.0	22.0	H2060-ND	1.44	26.13	85.50	DF11-24DP-2DSA(20)
Vertical Protected Header, Tin — RoHS Compliant								
4	4	6.0	2.0	H10229-ND	.60	9.00	28.20	DF11-4DP-2DSA(24)
	6	8.0	4.0	H10230-ND	.65	9.75	30.55	DF11-6DP-2DSA(24)
	8	10.0	6.0	H10231-ND	.57	10.31	33.75	DF11-8DP-2DSA(24)
	10	12.0	8.0	H10232-ND	.65	11.69	38.25	DF11-10DP-2DSA(24)
	12	14.0	10.0	H10233-ND	.68	12.38	40.50	DF11-12DP-2DSA(24)
	14	16.0	12.0	H10234-ND	.80	14.44	47.25	DF11-14DP-2DSA(24)
	16	18.0	14.0	H10235-ND	.84	15.13	49.50	DF11-16DP-2DSA(24)
	18	20.0	16.0	H10236-ND	.91	16.50	54.00	DF11-18DP-2DSA(24)
	20	22.0	18.0	H10237-ND	1.03	18.56	60.75	DF11-20DP-2DSA(24)
	22	24.0	20.0	H10238-ND	1.06	19.25	63.00	DF11-22DP-2DSA(24)
	24	26.0	22.0	H10239-ND	1.18	21.31	69.75	DF11-24DP-2DSA(24)
	26	28.0	24.0	H10240-ND	1.25	22.69	74.25	DF11-26DP-2DSA(24)
	28	30.0	26.0	H10241-ND	1.29	23.38	76.50	DF11-28DP-2DSA(24)
	30	32.0	28.0	H10242-ND	1.33	24.06	78.75	DF11-30DP-2DSA(24)
	32	34.0	30.0	H10243-ND	1.41	25.44	83.25	DF11-32DP-2DSA(24)
Vertical Protected Header, Gold — RoHS Compliant								
4	4	6.0	2.0	H2850-ND	.72	13.06	42.75	DF11-4DP-2DSA(01)
	6	8.0	4.0	H2851-ND	.91	16.50	54.00	DF11-6DP-2DSA(01)
	8	10.0	6.0	H2852-ND	1.10	19.94	65.25	DF11-8DP-2DSA(01)

(Continued)

DF11 Series Dual Row Connectors

2mm Pitch ***(Interconnect wire available)*** *(Cont.)*

Fig.	No. of Pins	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
4	10	12.0	8.0	H2853-ND	1.29	23.38	76.50	DF11-10DP-2DSA(01)
	12	14.0	10.0	H2854-ND	1.52	27.50	90.00	DF11-12DP-2DSA(01)
	14	16.0	12.0	H2855-ND	1.71	30.94	101.25	DF11-14DP-2DSA(01)
	16	18.0	14.0	H2856-ND	1.66	31.88	102.00	DF11-16DP-2DSA(01)
	18	20.0	16.0	H2857-ND	1.82	35.00	112.00	DF11-18DP-2DSA(01)
	20	22.0	18.0	H2858-ND	1.98	38.13	122.00	DF11-20DP-2DSA(01)
	22	24.0	20.0	H2859-ND	2.21	42.50	136.00	DF11-22DP-2DSA(01)
	24	26.0	22.0	H2860-ND	2.37	45.63	146.00	DF11-24DP-2DSA(01)
	26	28.0	24.0	H2861-ND	2.43	46.75	149.60	DF11-26DP-2DSA(01)
	28	30.0	26.0	H2862-ND	2.70	51.88	166.00	DF11-28DP-2DSA(01)
	30	32.0	28.0	H2863-ND	2.86	55.00	176.00	DF11-30DP-2DSA(01)
	32	34.0	30.0	H2864-ND	3.02	58.13	186.00	DF11-32DP-2DSA(01)
Right Angle Protected Header, Tin								
5	26	28.0	24.0	H2280-ND	1.44	26.13	85.50	DF11-26DP-2DS(22)
Right Angle Protected Header, Tin — RoHS Compliant								
5	4	6.0	2.0	H10244-ND	.65	9.75	30.55	DF11-4DP-2DS(24)
	6	8.0	4.0	H10245-ND	.61	11.00	36.00	DF11-6DP-2DS(24)
	8	10.0	6.0	H10246-ND	.65	11.69	38.25	DF11-8DP-2DS(24)
	10	12.0	8.0	H10247-ND	.80	14.44	47.25	DF11-10DP-2DS(24)
	12	14.0	10.0	H10248-ND	.91	16.50	54.00	DF11-12DP-2DS(24)
	14	16.0	12.0	H10249-ND	1.06	19.25	63.00	DF11-14DP-2DS(24)
	16	18.0	14.0	H10250-ND	1.25	22.69	74.25	DF11-16DP-2DS(24)
	18	20.0	16.0	H10251-ND	1.25	22.69	74.25	DF11-18DP-2DS(24)
	20	22.0	18.0	H10252-ND	1.41	25.44	83.25	DF11-20DP-2DS(24)
	22	24.0	20.0	H10253-ND	1.56	28.19	92.25	DF11-22DP-2DS(24)
	24	26.0	22.0	H10254-ND	1.71	30.94	101.25	DF11-24DP-2DS(24)
	26	28.0	24.0	H10255-ND	1.71	30.94	101.25	DF11-26DP-2DS(24)
	28	30.0	26.0	H10256-ND	1.82	33.00	108.00	DF11-28DP-2DS(24)
	30	32.0	28.0	H10257-ND	1.69	32.50	104.00	DF11-30DP-2DS(24)
	32	34.0	30.0	H10258-ND	1.79	34.38	110.00	DF11-32DP-2DS(24)
Right Angle Protected Header, Gold — RoHS Compliant								
5	4	6.0	2.0	H2865-ND	1.03	18.56	60.75	DF11-4DP-2DS(52)
	6	8.0	4.0	H2866-ND	1.29	23.38	76.50	DF11-6DP-2DS(52)
	8	10.0	6.0	H2867-ND	1.63	29.56	96.75	DF11-8DP-2DS(52)
	10	12.0	8.0	H2868-ND	1.66	31.88	102.00	DF11-10DP-2DS(52)
	12	14.0	10.0	H2869-ND	1.85	35.63	114.00	DF11-12DP-2DS(52)
	14	16.0	12.0	H2870-ND	2.11	40.63	130.00	DF11-14DP-2DS(52)
	16	18.0	14.0	H2871-ND	2.41	46.25	148.00	DF11-16DP-2DS(52)
	18	20.0	16.0	H2872-ND	2.63	50.63	162.00	DF11-18DP-2DS(52)
	20	22.0	18.0	H2873-ND	2.93	56.25	180.00	DF11-20DP-2DS(52)
	22	24.0	20.0	H2874-ND	3.15	60.63	194.00	DF11-22DP-2DS(52)
	24	26.0	22.0	H2875-ND	3.07	59.63	190.80	DF11-24DP-2DS(52)
	26	28.0	24.0	H2876-ND	3.25	63.00	201.60	DF11-26DP-2DS(52)
	28	30.0	26.0	H2877-ND	3.48	67.50	216.00	DF11-28DP-2DS(52)
	30	32.0	28.0	H2878-ND	3.68	71.44	228.60	DF11-30DP-2DS(52)
	32	34.0	30.0	H2879-ND	3.94	76.50	244.80	DF11-32DP-2DS(52)
Surface Mount Protected Header, Tin								
6	22	26.5	20.0	H2890-ND	3.22	61.88	198.00	DF11G-22DP-2V(20)
	28	32.5	26.0	H2286-ND	2.11	40.63	130.00	DF11-28DP-2V(20)
	32	36.5	30.0	H2895-ND	2.28	43.75	140.00	DF11G-32DP-2V(20)
Surface Mount Protected Header, Tin — RoHS Compliant								
6	4	8.5	2.0	H10259-ND	1.18	21.31	69.75	DF11GZ-4DP-2V(20)
	6	10.5	4.0	H10260-ND	1.25	22.69	74.25	DF11GZ-6DP-2V(20)
	8	12.5	6.0	H10261-ND	1.33	24.06	78.75	DF11GZ-8DP-2V(20)
	10	14.5	8.0	H10262-ND	1.44	26.13	85.50	DF11GZ-10DP-2V(20)
	12	16.5	10.0	H10263-ND	1.56	28.19	92.25	DF11GZ-12DP-2V(20)
	14	18.5	12.0	H10264-ND	1.63	29.56	96.75	DF11GZ-14DP-2V(20)
	16	20.5	14.0	H10265-ND	1.79	32.31	105.75	DF11GZ-16DP-2V(20)
	18	22.5	16.0	H10266-ND	1.86	33.69	110.25	DF11GZ-18DP-2V(20)
	20	24.5	18.0	H10267-ND	1.66	31.88	102.00	DF11GZ-20DP-2V(20)
	22	26.5	20.0	H10268-ND	1.79	34.38	110.00	DF11GZ-22DP-2V(20)
	24	28.5	22.0	H10269-ND	1.89	36.25	116.00	DF11GZ-24DP-2V(20)
	26	30.5	24.0	H10270-ND	2.02	38.75	124.00	DF11GZ-26DP-2V(20)
	28	32.5	26.0	H10271-ND	2.21	42.50	136.00	DF11GZ-28DP-2V(20)
	30	34.5	28.0	H10272-ND	2.28	43.75	140.00	DF11GZ-30DP-2V(20)
	32	36.5	30.0	H10273-ND	2.31	44.38	142.00	DF11GZ-32DP-2V(20)
	40	44.5	38.0	H10274-ND	2.80	53.75	172.00	DF11GZ-40DP-2V(20)
Surface Mount Protected Header, Gold — RoHS Compliant								
6	4	8.5	2.0	H2897-ND	1.63	29.56	96.75	DF11G-4DP-2V(50)
	6	10.5	4.0	H2898-ND	1.86	33.69	110.25	DF11G-6DP-2V(50)
	8	12.5	6.0	H2899-ND	1.79	34.38	110.00	DF11G-8DP-2V(50)
	10	14.5	8.0	H2900-ND	2.02	38.75	124.00	DF11G-10DP-2V(50)
	12	16.5	10.0	H2901-ND	2.28	43.75	140.00	DF11G-12DP-2V(50)
	14	18.5	12.0	H2902-ND	2.47	47.50	152.00	DF11G-14DP-2V(50)
	16	20.5	14.0	H2903-ND	2.73	52.50	168.00	DF11G-16DP-2V(50)
	18	22.5	16.0	H2904-ND	2.93	56.25	180.00	DF11G-18DP-2V(50)
	20	24.5	18.0	H2905-ND	3.12	60.00	192.00	DF11G-20DP-2V(50)
	22	26.5	20.0	H2906-ND	3.07	59.63	190.80	DF11G-22DP-2V(50)
	24	28.5	22.0	H2907-ND	3.28	63.56	203.40	DF11G-24DP-2V(50)
	26	30.5	24.0	H2908-ND	3.60	69.75	223.20	DF11G-26DP-2V(50)
	28	32.5	26.0	H2909-ND	3.83	74.25	237.60	DF11G-28DP-2V(50)
6	30	34.5	28.0	H2910-ND	4.03	78.19	250.20	DF11G-30DP-2V(50)
	32	36.5	30.0	H2911-ND	4.21	81.56	261.00	DF11G-32DP-2V(50)
	40	44.5	38.0	H2912-ND	5.25	101.81	325.80	DF11G-40DP-2V(50)
Connector Plug Housing — RoHS Compliant								
7	4	11.0	2.0	H2913-ND	.50	7.50	23.50	DF11-4DEP-2C
	6	13.0	4.0	H2914-ND	.52	7.80	24.44	DF11-6DEP-2C
	8	15.0	6.0	H2915-ND	.54	8.10	25.38	DF11-8DEP-2C
	10	17.0	8.0	H2916-ND	.56	8.40	26.32	DF11-10DEP-2C
	12	19.0	10.0	H2917-ND	.58	8.70	27.26	DF11-12DEP-2C
	14	21.0	12.0	H2918-ND	.61	9.15	28.67	DF11-14DEP-2C
	16	23.0	14.0	H2919-ND	.63	9.45	29.61	DF11-16DEP-2C
	18	25.0	16.0	H2920-ND	.65	9.68	30.32	DF11-18DEP-2C
	20	27.0	18.0	H2921-ND	.67	9.98	31.26	DF11-20DEP-2C
	22	29.0	20.0	H2922-ND	.69	10.35	32.43	DF11-22DEP-2C
	24	31.0	22.0	H2923-ND	.72	10.73	33.61	DF11-24DEP-2C
	26	33.0	24.0	H2924-ND	.74	11.03	34.55	DF11-26DEP-2C
	28	35.0	26.0	H2925-ND	.58	10.45	34.20	DF11-28DEP-2C
	30	37.0	28.0	H2926-ND	.59	10.73	35.10	DF11-30DEP-2C
	32	39.0	30.0	H2927-ND	.61	11.00	36.00	DF11-32DEP-2C
In-Line Adaptor — RoHS Compliant								
8	4	9.2	2.0	H2928-ND	.67	12.10	39.60	DF11-4DEP-2A
	6	11.2	4.0	H2929-ND	.76	13.75	45.00	DF11-6DEP-2A
	8	13.2	6.0	H2930-ND	.87	15.81	51.75	DF11-8DEP-2A
	10	15.2	8.0	H2931-ND	.95	17.19	56.25	DF11-10DEP-2A
	12	17.2	10.0	H2932-ND	1.03	18.56	60.75	DF11-12DEP-2A
	14	19.2	12.0	H2933-ND	1.18	21.31	69.75	DF11-14DEP-2A
	16	21.2	14.0	H2934-ND	1.25	22.69	74.25	DF11-16DEP-2A
	18	23.2	16.0	H2935-ND	1.33	24.06	78.75	DF11-18DEP-2A
	20	25.2	18.0	H2936-ND	1.44	26.13	85.50	DF11-20DEP-2A
	22	27.2	20.0	H2937-ND	1.56	28.19	92.25	DF11-22DEP-2A
	24	29.2	22.0	H2938-ND	1.63	29.56	96.75	DF11-24DEP-2A
	26	31.2	24.0	H2939-ND	1.71	30.94	101.25	DF11-26DEP-2A
	28	33.2	26.0	H2940-ND	1.79	32.31	105.75	DF11-28DEP-2A
	30	35.2	28.0	H2941-ND	1.63	31.25	100.00	DF11-30DEP-2A
	32	37.2	30.0	H2942-ND	1.69	32.50	104.00	DF11-32DEP-2A
Connector Shorting Jumpers — RoHS Compliant								
9A	4	6.6	2.0	H10275-ND	.67	9.98	31.26	DF11-4DP-SP1(05)
	6	8.6	4.0	H10276-ND	.71	10.65	33.37	DF11-6DP-SP1(05)
	8	10.6	6.0	H10277-ND	.58	10.45	34.20	DF11-8DP-SP1(05)
9B	4	6.6	2.0	H10278-ND	.72	13.06	42.75	DF11-4DP-SP2(05)
	6	8.6	4.0	H10279-ND	.80	14.44	47.25	DF11-6DP-SP2(05)
	8	10.6	6.0	H10280-ND	.87	15.81	51.75	DF11-8DP-SP2(05)

Crimping Contacts

Fig.	AWG	Digi-Key Part No.	Loose Piece Pricing 100	Hirose Part No.	Digi-Key Part No.	Tape & Reel Pricing 10,000	Hirose Part No.
Socket Contacts — RoHS Compliant							
Tin Plating							
10	22	H2950-ND	7.43	DF11-22SC	H2950TR-ND	18.00/M	DF11-22SCF
	24-28	H1504-ND	7.13	DF11-2428SC	H1504TR-ND	11.00/M	DF11-2428SCF
	30	H2954-ND	7.15	DF11-30SC	H2954TR-ND	18.00/M	DF11-30SCF
Gold Plating							
10	22	H2953-ND	11.75	DF11-22SCA	—	—	—
	24-28	H1505-ND	11.75	DF11-2428SCA	H1505TR-ND	44.00/M	DF11-2428SCFA
	30	H2951-ND	11.00	DF11-30SCA	H2951TR-ND	44.00/M	DF11-30SCFA
Pin Contacts — RoHS Compliant							
Tin Plating							
11	22	—	—	—	H2952TR-ND	19.00/M	DF11-EP22PCF
	24-28	H1506-ND	8.80	DF11-EP2428PC	H1506TR-ND	18.00/M	DF11-EP2428PCF
Gold Plating							
11	24-28	H1507-ND	12.50	DF11-EP2428PCA	—	—	—

Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Hand Crimp Tools			
Hand Tool without Die Set	H9926-ND	344.47	HRUS-HT-1
22AWG Socket Die Set for #H9926-ND	H10298-ND	385.70	DF11-TA22HC/US-DS
24-28AWG Socket Die Set for #H9926-ND	H9928-ND	248.71	DF11-TA2428HC/US-DS
Hand Tool with 22AWG Socket Die Set	H10297-ND	713.70	DF11-TA22HC/US
Hand Tool with 24-28AWG Socket Die Set	H9924-ND	593.18	DF11-TA2428HC/US
24-28AWG Pin Die Set for #H9926-ND	H10490-ND	385.70	DF11EP-TA2428HC/US-DS
Hand Tool with 24-28AWG Pin Die Set	H10491-ND	713.70	DF11EP-TA2428HC/US
22AWG, for Socket with Non-Removeable Die	H9954-ND	834.60	DF11-TA22HC
24-28AWG, for Socket with Non-Removeable Die	H9995-ND	834.60	DF11-TA2428HC
30AWG, for Socket with Non-Removeable Die	H9955-ND	834.60	DF11-TA30HC
24-28AWG, for Pin with Non-Removeable Die	H2304-ND	834.60	DF11EP-TA2428HC
Extraction Tool			
Tool for DF11 Socket	H9996-ND	3.02	DF-C-PO(B)

HIROSE ELECTRIC CO.,LTD.

A3 and A4 Series Crimp Connector 2mm Pitch

Specifications:

• Current Rating: 1A • Voltage Rating: 200VAC • Operating Temperature: -55°C ~ 85°C • Operating Moisture Range: 40% ~ 80% • Insulation Resistance: 1000MΩ minimum at 500VDC • Withstanding Voltage: 650VAC/1 minute (no flashover or insulation breakdown) • Contact Resistance: 15mΩ maximum @ 0.1A

Applications:

• VTR • Vehicle telephones • Various electronic equipment

Materials:

• Insulator Pin Header: black polyamide, UL 94V-0 • Insulator Receptacle: black PBT, UL 94V-0 • Insulator Pin Header (SMT) and Receptacle (SMT): light brown PPS • Insulator Crimping Socket: black PBT • Pin Header Contact: Brass with selective gold plating • Receptacle and Crimping Contact: Phosphor bronze with selective gold plating

Fig. 1

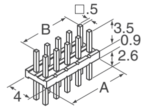

Fig. 2

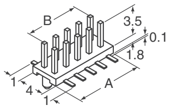

Fig. 3

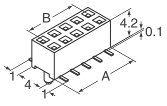

Fig. 4

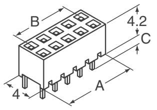

Fig. 5

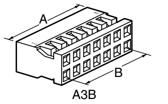

Fig. 6

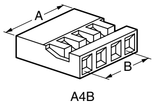

Fig. 7

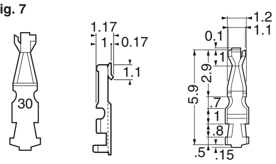

Fig. 8 ***Note:*** For use with all series.

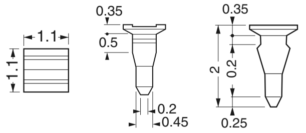

Fig.	No. of Contacts	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Hirose Part No.
Pin Header								
Low Profile – Gold Plating — RoHS Compliant								
1	2	2.0	—	H1807-ND	.60	9.00	28.20	A3C-2P-2DSA
	4	4.0	2.0	H1808-ND	.65	11.69	38.25	A3C-4P-2DSA
	6	6.0	4.0	H1809-ND	.87	15.81	51.75	A3C-6P-2DSA
	8	8.0	6.0	H1810-ND	1.06	19.25	63.00	A3C-8P-2DSA
	10	10.0	8.0	H1811-ND	1.41	25.44	83.25	A3C-10P-2DSA
	12	12.0	10.0	H1812-ND	1.71	30.94	101.25	A3C-12P-2DSA
	14	14.0	12.0	H1813-ND	1.79	32.31	105.75	A3C-14P-2DSA
	16	16.0	14.0	H1814-ND	1.89	36.25	116.00	A3C-16P-2DSA
	18	18.0	16.0	H1815-ND	1.92	36.88	118.00	A3C-18P-2DSA
	20	20.0	18.0	H1816-ND	2.73	52.50	168.00	A3C-20P-2DSA
	22	22.0	20.0	H1817-ND	2.80	53.75	172.00	A3C-22P-2DSA
	24	24.0	22.0	H1818-ND	2.83	54.38	174.00	A3C-24P-2DSA
	26	26.0	24.0	H1819-ND	2.93	56.25	180.00	A3C-26P-2DSA
	28	28.0	26.0	H1820-ND	2.96	56.88	182.00	A3C-28P-2DSA
	32	32.0	30.0	H1821-ND	4.55	88.31	282.60	A3C-32P-2DSA
	44	44.0	42.0	H1822-ND	4.55	88.31	282.60	A3C-44P-2DSA
	48	48.0	46.0	H1823-ND	4.55	88.31	282.60	A3C-48P-2DSA
	50	50.0	48.0	H1824-ND	4.55	88.31	282.60	A3C-50P-2DSA
Without Boss – Gold Plating								
2	16	16.0	14.0	H1787-ND	1.82	35.00	112.00	A3-16PA-2SV
Without Boss – Gold Plating — RoHS Compliant								
2	4	4.0	2.0	H10934-ND	1.41	25.44	83.25	A3-4PA-2SV(71)
	6	6.0	4.0	H10935-ND	1.60	28.88	94.50	A3-6PA-2SV(71)
	8	8.0	6.0	H10936-ND	1.82	33.00	108.00	A3-8PA-2SV(71)
	10	10.0	8.0	H10937-ND	1.66	31.88	102.00	A3-10PA-2SV(71)
	12	12.0	10.0	H10938-ND	1.89	36.25	116.00	A3-12PA-2SV(71)
	14	14.0	12.0	H10939-ND	2.05	39.38	126.00	A3-14PA-2SV(71)
	16	16.0	14.0	H10940-ND	2.28	43.75	140.00	A3-16PA-2SV(71)
	20	20.0	18.0	H10941-ND	2.57	49.38	158.00	A3-20PA-2SV(71)
	24	24.0	22.0	H10942-ND	3.12	60.00	192.00	A3-24PA-2SV(71)
	28	28.0	26.0	H10943-ND	3.22	62.44	199.80	A3-28PA-2SV(71)
	32	32.0	30.0	H10944-ND	3.60	69.75	223.20	A3-32PA-2SV(71)
	44	44.0	42.0	H10945-ND	5.02	97.31	311.40	A3-44PA-2SV(71)
	50	50.0	48.0	H10946-ND	5.74	111.38	356.40	A3-50PA-2SV(71)
With Boss – Gold Plating								
2	14	14.0	12.0	H1799-ND	1.66	31.88	102.00	A3A-14PA-2SV
	32	32.0	30.0	H1804-ND	2.96	57.38	183.60	A3A-32PA-2SV
With Boss – Gold Plating — RoHS Compliant								
2	4	4.0	2.0	H10947-ND	1.41	25.44	83.25	A3A-4PA-2SV(71)
	6	6.0	4.0	H10948-ND	1.60	28.88	94.50	A3A-6PA-2SV(71)
	8	8.0	6.0	H10949-ND	1.82	33.00	108.00	A3A-8PA-2SV(71)
	10	10.0	8.0	H10950-ND	1.66	31.88	102.00	A3A-10PA-2SV(71)
	12	12.0	10.0	H10951-ND	1.89	36.25	116.00	A3A-12PA-2SV(71)
	14	14.0	12.0	H10952-ND	2.05	39.38	126.00	A3A-14PA-2SV(71)
	16	16.0	14.0	H10953-ND	2.28	43.75	140.00	A3A-16PA-2SV(71)
	20	20.0	18.0	H10954-ND	2.57	49.38	158.00	A3A-20PA-2SV(71)
	24	24.0	22.0	H10955-ND	3.12	60.00	192.00	A3A-24PA-2SV(71)
	28	28.0	26.0	H10956-ND	3.22	62.44	199.80	A3A-28PA-2SV(71)
	32	32.0	30.0	H10957-ND	3.60	69.75	223.20	A3A-32PA-2SV(71)
	44	44.0	42.0	H10958-ND	5.02	97.31	311.40	A3A-44PA-2SV(71)
	50	50.0	48.0	H10959-ND	5.74	111.38	356.40	A3A-50PA-2SV(71)
Receptacle								
Without Boss – Gold Plating								
3	10	10.0	8.0	H1830-ND	1.41	25.44	83.25	A3-10DA-2SV
	14	14.0	12.0	H1832-ND	1.86	33.69	110.25	A3-14DA-2SV
	24	24.0	22.0	H1835-ND	2.47	47.50	152.00	A3-24DA-2SV
	28	28.0	26.0	H1836-ND	2.89	55.63	178.00	A3-28DA-2SV
Without Boss – Gold Plating — RoHS Compliant								
3	4	4.0	2.0	H10960-ND	.95	17.19	56.25	A3-4DA-2SV(71)
	6	6.0	4.0	H10961-ND	1.10	19.94	65.25	A3-6DA-2SV(71)
	8	8.0	6.0	H10962-ND	1.29	23.38	76.50	A3-8DA-2SV(71)
	10	10.0	8.0	H10963-ND	1.48	26.81	87.75	A3-10DA-2SV(71)
	12	12.0	10.0	H10964-ND	1.63	29.56	96.75	A3-12DA-2SV(71)
	14	14.0	12.0	H10965-ND	1.82	33.00	108.00	A3-14DA-2SV(71)
	16	16.0	14.0	H10966-ND	1.69	32.50	104.00	A3-16DA-2SV(71)
	20	20.0	18.0	H10967-ND	2.02	38.75	124.00	A3-20DA-2SV(71)
	24	24.0	22.0	H10968-ND	2.41	46.25	148.00	A3-24DA-2SV(71)
	28	28.0	26.0	H10969-ND	2.80	53.75	172.00	A3-28DA-2SV(71)
	32	32.0	30.0	H10970-ND	2.99	57.94	185.40	A3-32DA-2SV(71)
With Boss – Gold Plating								
3	4	4.0	2.0	H1838-ND	.95	17.19	56.25	A3A-4DA-2SV
With Boss – Gold Plating — RoHS Compliant								
3	4	4.0	2.0	H10971-ND	.95	17.19	56.25	A3A-4DA-2SV(71)
	6	6.0	4.0	H10972-ND	1.10	19.94	65.25	A3A-6DA-2SV(71)
	8	8.0	6.0	H10973-ND	1.29	23.38	76.50	A3A-8DA-2SV(71)
	10	10.0	8.0	H10974-ND	1.48	26.81	87.75	A3A-10DA-2SV(71)
	12	12.0	10.0	H10975-ND	1.63	29.56	96.75	A3A-12DA-2SV(71)
	14	14.0	12.0	H10976-ND	1.82	33.00	108.00	A3A-14DA-2SV(71)
	16	16.0	14.0	H10977-ND	1.69	32.50	104.00	A3A-16DA-2SV(71)
	20	20.0	18.0	H10978-ND	2.02	38.75	124.00	A3A-20DA-2SV(71)
	24	24.0	22.0	H10979-ND	2.41	46.25	148.00	A3A-24DA-2SV(71)
	28	28.0	26.0	H10980-ND	2.80	53.75	172.00	A3A-28DA-2SV(71)
	32	32.0	30.0	H10981-ND	2.99	57.94	185.40	A3A-32DA-2SV(71)

Fig.	No. of Contacts	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Hirose Part No.
Receptacle – Gold Plating									
4	4	4.0	2.0	3.0	H1849-ND	1.86	33.69	110.25	A3C-4DA-2DSA
		4.0	2.0	1.27	H1878-ND	.68	12.38	40.50	A3D-4DA-2DSE
	6	6.0	4.0	3.0	H1850-ND	1.76	33.75	108.00	A3C-6DA-2DSA
	8	8.0	6.0	2.0	H1864-ND	1.92	36.88	118.00	A3C-8DA-2DSC
		8.0	6.0	1.27	H1880-ND	1.03	18.56	60.75	A3D-8DA-2DSE
	10	10.0	8.0	1.27	H1881-ND	1.14	20.63	67.50	A3D-10DA-2DSE
	12	12.0	10.0	2.0	H1866-ND	2.11	40.63	130.00	A3C-12DA-2DSC
	14	14.0	12.0	3.0	H1854-ND	2.21	42.50	136.00	A3C-14DA-2DSA
	16	16.0	14.0	2.0	H1868-ND	2.34	45.00	144.00	A3C-16DA-2DSC
		16.0	14.0	1.27	H1884-ND	1.82	33.00	108.00	A3D-16DA-2DSE
	18	18.0	16.0	3.0	H1856-ND	2.44	46.88	150.00	A3C-18DA-2DSA
		18.0	16.0	1.27	H1885-ND	1.85	35.63	114.00	A3D-18DA-2DSE
	20	20.0	18.0	1.27	H1886-ND	2.08	40.00	128.00	A3D-20DA-2DSE
	24	24.0	22.0	2.0	H1871-ND	2.70	51.88	166.00	A3C-24DA-2DSC

(Continued)

A3 and A4 Series Crimp Connector
2mm Pitch *(Cont.)*

Fig.	No. of Contacts	Dimensions (mm)			Digi-Key Part No.	Pricing			Hirose Part No.
		A	B	C		1	25	100	
4	28	28.0	26.0	2.0	H1872-ND	2.96	56.88	182.00	A3C-28DA-2DSC
	32	32.0	30.0	3.0	H1860-ND	3.15	60.63	194.00	A3C-32DA-2DSA
		32.0	30.0	2.0	H1873-ND	3.15	60.63	194.00	A3C-32DA-2DSC
	50	50.0	48.0	3.0	H1861-ND	4.79	92.81	297.00	A3C-50DA-2DSA
		50.0	48.0	2.0	H1874-ND	4.79	92.81	297.00	A3C-50DA-2DSC
Receptacle – Gold Plating — RoHS Compliant									
4	4	4.0	2.0	3.0	H10891-ND	1.66	31.88	102.00	A3C-4DA-2DSA(71)
		4.0	2.0	2.0	H10904-ND	1.66	31.88	102.00	A3C-4DA-2DSC(71)
		4.0	2.0	1.27	H10920-ND	.72	13.06	42.75	A3D-4DA-2DSE(71)
	6	6.0	4.0	3.0	H10892-ND	1.82	35.00	112.00	A3C-6DA-2DSA(71)
		6.0	4.0	2.0	H10905-ND	1.82	35.00	112.00	A3C-6DA-2DSC(71)
		6.0	4.0	1.27	H10921-ND	.87	15.81	51.75	A3D-6DA-2DSE(71)
	8	8.0	6.0	3.0	H10893-ND	2.02	38.75	124.00	A3C-8DA-2DSA(71)
		8.0	6.0	2.0	H10906-ND	2.02	38.75	124.00	A3C-8DA-2DSC(71)
		8.0	6.0	1.27	H10922-ND	1.06	19.25	63.00	A3D-8DA-2DSE(71)
	10	10.0	8.0	3.0	H10894-ND	2.18	41.88	134.00	A3C-10DA-2DSA(71)
		10.0	8.0	2.0	H10907-ND	2.18	41.88	134.00	A3C-10DA-2DSC(71)
		10.0	8.0	1.27	H10923-ND	1.22	22.00	72.00	A3D-10DA-2DSE(71)
	12	12.0	10.0	3.0	H10895-ND	2.21	42.50	136.00	A3C-12DA-2DSA(71)
		12.0	10.0	2.0	H10908-ND	2.21	42.50	136.00	A3C-12DA-2DSC(71)
		12.0	10.0	1.27	H10924-ND	1.41	25.44	83.25	A3D-12DA-2DSE(71)
	14	14.0	12.0	3.0	H10896-ND	2.31	44.38	142.00	A3C-14DA-2DSA(71)
		14.0	12.0	2.0	H10909-ND	2.31	44.38	142.00	A3C-14DA-2DSC(71)
		14.0	12.0	1.27	H10925-ND	1.63	29.56	96.75	A3D-14DA-2DSE(71)
	16	16.0	14.0	3.0	H10897-ND	2.44	46.88	150.00	A3C-16DA-2DSA(71)
		16.0	14.0	2.0	H10910-ND	2.44	46.88	150.00	A3C-16DA-2DSC(71)
		16.0	14.0	1.27	H10926-ND	1.75	31.63	103.50	A3D-16DA-2DSE(71)
	18	18.0	16.0	3.0	H10898-ND	2.54	48.75	156.00	A3C-18DA-2DSA(71)
		18.0	16.0	2.0	H10911-ND	2.54	48.75	156.00	A3C-18DA-2DSC(71)
		18.0	16.0	1.27	H10927-ND	1.79	34.38	110.00	A3D-18DA-2DSE(71)
	20	20.0	18.0	3.0	H10899-ND	2.63	50.63	162.00	A3C-20DA-2DSA(71)
		20.0	18.0	2.0	H10912-ND	2.63	50.63	162.00	A3C-20DA-2DSC(71)
		20.0	18.0	1.27	H10928-ND	2.02	38.75	124.00	A3D-20DA-2DSE(71)
	24	24.0	22.0	3.0	H10900-ND	2.80	53.75	172.00	A3C-24DA-2DSA(71)
		24.0	22.0	2.0	H10913-ND	2.80	53.75	172.00	A3C-24DA-2DSC(71)
		24.0	22.0	1.27	H10917-ND	2.80	53.75	172.00	A3C-24DA-2DSE(71)
	28	28.0	26.0	3.0	H10901-ND	3.09	59.38	190.00	A3C-28DA-2DSA(71)
		28.0	26.0	2.0	H10914-ND	3.09	59.38	190.00	A3C-28DA-2DSC(71)
		28.0	26.0	1.27	H10929-ND	2.80	53.75	172.00	A3D-28DA-2DSE(71)
	32	32.0	30.0	3.0	H10902-ND	2.93	56.81	181.80	A3C-32DA-2DSA(71)
		32.0	30.0	2.0	H10915-ND	2.93	56.81	181.80	A3C-32DA-2DSC(71)
		32.0	30.0	1.27	H10918-ND	2.93	56.81	181.80	A3C-32DA-2DSE(71)
	44	44.0	42.0	1.27	H10930-ND	3.16	61.31	196.20	A3D-44DA-2DSE(71)
		44.0	42.0	1.0	H1890-ND	3.05	59.06	189.00	A3D-44DA-2DSG
	50	50.0	48.0	3.0	H10903-ND	4.96	96.19	307.80	A3C-50DA-2DSA(71)
		50.0	48.0	2.0	H10916-ND	4.96	96.19	307.80	A3C-50DA-2DSC(71)
		50.0	48.0	1.27	H10919-ND	4.96	96.19	307.80	A3C-50DA-2DSE(71)
	62	62.0	60.0	1.27	H10931-ND	4.79	92.81	297.00	A3D-62DA-2DSE(71)

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Dual Row Crimp Socket – A3B Series — RoHS Compliant								
5	4	4.0	2.0	H2001-ND	.50	7.50	23.50	A3B-4D-2C
	6	6.0	4.0	H2002-ND	.50	7.50	23.50	A3B-6D-2C
	8	8.0	6.0	H2003-ND	.50	7.50	23.50	A3B-8D-2C
	10	10.0	8.0	H2004-ND	.60	9.00	28.20	A3B-10D-2C
	12	12.0	10.0	H2005-ND	.60	9.00	28.20	A3B-12D-2C
	14	14.0	12.0	H2006-ND	.70	10.50	32.90	A3B-14D-2C
	18	18.0	16.0	H2007-ND	.57	10.31	33.75	A3B-18D-2C
	20	20.0	18.0	H2008-ND	.65	11.69	38.25	A3B-20D-2C
	24	24.0	22.0	H2009-ND	.68	12.38	40.50	A3B-24D-2C
	28	28.0	26.0	H2010-ND	.76	13.75	45.00	A3B-28D-2C
Single Row Crimp Socket – A4B Series — RoHS Compliant								
6	2	4.0	2.0	H2011-ND	.50	7.50	23.50	A4B-2S-2C
	3	6.0	4.0	H2012-ND	.50	7.50	23.50	A4B-3S-2C
	4	8.0	6.0	H2013-ND	.50	7.50	23.50	A4B-4S-2C
	6	12.0	10.0	H2015-ND	.65	9.75	30.55	A4B-6S-2C
	8	16.0	14.0	H2016-ND	.87	15.81	51.75	A4B-8S-2C
	10	20.0	18.0	H2017-ND	1.03	18.56	60.75	A4B-10S-2C
	12	24.0	22.0	H2018-ND	.50	7.50	23.50	A4B-12S-2C
Contacts and Crimp Tools — RoHS Compliant								
7	Crimp Terminal for A3B-A4B			H9999-ND◆	—	—	9.08	A3B-2630SCC
	Crimp Tool for A3B-A4B			H9998-ND	834.60	—	—	A3B-TA2630HC
8	Polarizing Key for Socket Connectors			H2000-ND◆	2.09/10	—	12.00	A3-GPIN(A)
—	Crimp Tool and Die Set for A3B			H10875-ND	713.70	—	—	A3B-TA2630HC/US
—	Die Set for A3B			H10876-ND	385.70	—	—	A3B-TA2630HC/US-DS

◆ ***RoHS Compliant***

A3E Series Crimp Connector 2mm Pitch

Specifications: • Current Rating: 0.5A • Voltage Rating: 125VAC • Operating Temperature: -55°C ~ 85°C • Operating Moisture Range: 40% ~ 80% • Insulation Resistance: 1000MΩ min. at 250VDC • Withstanding Voltage: 300VAC/1 minute (no flashover or insulation breakdown) • Contact Resistance: 40mΩ maximum @ 0.1A **Material:** • Insulator Pin Header: black polyamide, UL 94V-0 • Insulator Socket: black PBT, UL 94V-0 • Pin Header Contact: Brass with selective gold plating • Socket Contact: beryllium copper

Fig. 1

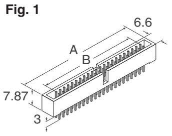

Fig. 2

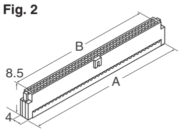

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Pin Header – Gold Plating								
1	44	52.0	42.0	H10932-ND◆	4.12	79.88	255.60	A3E-44PA-2DSA(71)
	50	58.0	48.0	H10933-ND◆	5.22	101.25	324.00	A3E-50PA-2DSA(71)
	50	58.0	48.0	H1826-ND	5.02	97.31	311.40	A3E-50PA-2DSA
Socket								
2	44	49.0	42.0	H1891-ND	7.93	160.13	503.25	A3E-44D-2R
	50	55.0	48.0	H1892-ND	7.77	156.98	493.35	A3E-50D-2R
—	Universal Guide Plate			H9947-ND	1625.00	—	—	A3E-GPA

◆ ***RoHS Compliant***

MDF7 Series Bottom Entry Connector 2.54mm Pitch

Features:

• Board-to-board distance can be freely set • Components sides of two boards can be arranged on the same side without facing each other

Applications:

• Telephones, internal connections of OA/FA equipment, connection of IPM and IGBT to boards

Specifications:

• Rated Current: 3A • Rated Voltage: AC250V • Operating Temperature: -35°C ~ 85°C • Insulation Resistance: 1,000MΩ or more • Contact Resistance: 30mΩ or less • Insertion and withdrawals force: Minimum 0.4N (40gf), Maximum 4.4N (450gf)

Materials:

• Receptacle: Insulation; Polyamide resin, black, UL 94V-0 and Terminal; Phosphor bronze, gold or tin • Pin Header: Insulation; PBT resin, Main body – Black / Locator: Grey, UL 94V-0

Fig. 1

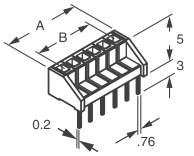

Fig. 2

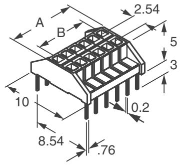

Fig.	No. of Contacts	Dimension (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
		A	B		1	25	100	
Receptacle - Straight Dip								
Single Row — Tin								
1	7	17.78	15.24	H2552-ND	1.30	.95	.78	MDF7- 7S-2.54DSA
	12	30.48	27.94	H2557-ND	1.76	1.28	1.05	MDF7-12S-2.54DSA
	20	50.80	48.26	H2565-ND	1.91	1.47	1.18	MDF7-20S-2.54DSA
Single Row – Tin — RoHS Compliant								
1	3	7.62	5.08	H10653-ND	1.06	.77	.63	MDF7- 3S-2.54DSA(55)
	5	12.70	10.16	H10654-ND	1.22	.88	.72	MDF7- 5S-2.54DSA(55)
	6	15.24	12.70	H10655-ND	1.29	.94	.77	MDF7- 6S-2.54DSA(55)
	7	17.78	15.24	H10656-ND	1.37	.99	.81	MDF7- 7S-2.54DSA(55)
	8	20.32	17.78	H10657-ND	1.44	1.05	.86	MDF7- 8S-2.54DSA(55)
	9	22.86	20.32	H10658-ND	1.52	1.10	.90	MDF7- 9S-2.54DSA(55)
	10	25.40	22.86	H10659-ND	1.71	1.24	1.02	MDF7-10S-2.54DSA(55)
	11	27.94	25.40	H10660-ND	1.79	1.30	1.06	MDF7-11S-2.54DSA(55)
	12	30.48	27.94	H10661-ND	1.86	1.35	1.11	MDF7-12S-2.54DSA(55)
	13	33.02	30.48	H10662-ND	1.86	1.35	1.11	MDF7-13S-2.54DSA(55)
	14	35.56	33.02	H10663-ND	1.63	1.25	1.00	MDF7-14S-2.54DSA(55)
	15	38.10	35.56	H10664-ND	1.66	1.28	1.02	MDF7-15S-2.54DSA(55)
	16	40.64	38.10	H10665-ND	1.76	1.35	1.08	MDF7-16S-2.54DSA(55)
	17	43.18	40.64	H10666-ND	1.79	1.38	1.10	MDF7-17S-2.54DSA(55)
	18	45.72	43.18	H10667-ND	1.92	1.48	1.18	MDF7-18S-2.54DSA(55)
	19	48.26	45.72	H10668-ND	1.95	1.50	1.20	MDF7-19S-2.54DSA(55)
	20	50.80	48.26	H10669-ND	1.98	1.53	1.22	MDF7-20S-2.54DSA(55)
	21	53.34	50.80	H10670-ND	2.11	1.63	1.30	MDF7-21S-2.54DSA(55)
	22	55.88	53.34	H10671-ND	2.18	1.68	1.34	MDF7-22S-2.54DSA(55)
	23	58.42	55.88	H10672-ND	2.24	1.73	1.38	MDF7-23S-2.54DSA(55)
	24	60.96	58.42	H10673-ND	2.31	1.78	1.42	MDF7-24S-2.54DSA(55)
	25	63.50	60.96	H10674-ND	2.47	1.90	1.52	MDF7-25S-2.54DSA(55)
Double Row — Gold								
2	12	15.24	12.70	H2571-ND	2.93	2.26	1.81	MDF7-12D-2.54DSA
Double Row – Gold — RoHS Compliant								
2	12	15.24	12.70	H10675-ND	3.06	2.35	1.88	MDF7-12D-2.54DSA(56)
	14	17.78	15.24	H10676-ND	3.07	2.39	1.91	MDF7-14D-2.54DSA(56)
	16	20.32	17.78	H10677-ND	3.31	2.57	2.06	MDF7-16D-2.54DSA(56)
	20	25.40	22.86	H10678-ND	3.80	2.95	2.36	MDF7-20D-2.54DSA(56)
	22	27.94	25.40	H10679-ND	3.89	3.02	2.42	MDF7-22D-2.54DSA(56)
	26	33.02	30.48	H10680-ND	4.50	3.49	2.79	MDF7-26D-2.54DSA(56)
	30	38.10	35.56	H10681-ND	5.05	3.92	3.14	MDF7-30D-2.54DSA(56)
	34	43.18	40.64	H10682-ND	5.80	4.50	3.60	MDF7-34D-2.54DSA(56)
	40	50.80	48.26	H10683-ND	6.67	5.18	4.14	MDF7-40D-2.54DSA(56)
	46	58.42	55.88	H10684-ND	6.81	5.51	4.33	MDF7-46D-2.54DSA(56)

NorComp
A DIVISION OF EDAC (AMERICA) LIMITED

2mm Headers

Features: • 15 microinches selective gold plating • Insulator is glass filled thermoplastic UL Rating 94V-0 • Color: Black • Contact material: Non-RoHS parts are phosphor bronze; RoHS parts are copper alloy • "Post plated" contacts; no bare edges.

Single Row – Straight Header

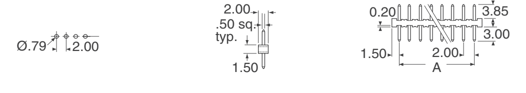

Single Row – Right Angle Header

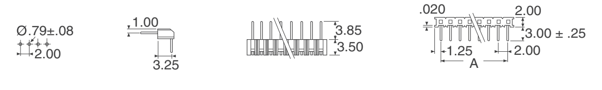

Dual Row – Straight Header

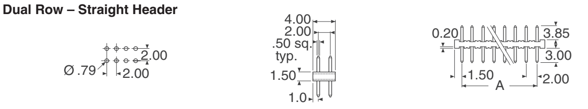

Dual Row – Right Angle Header

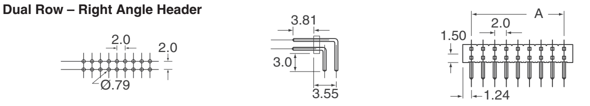

Manufacturer's Full Length Headers Available in Multiple Pin Versions

Dim. A (mm)	Digi-Key Part No.	Pricing 1	10	100	NorComp Part No.
Single Row Straight — 36 Pins					
70.0	2663S-36-ND	2.95	26.37	217.14	26633601RP2
Single Row Right Angle — 36 Pins					
70.0	2763R-36-ND	3.09	20.58	167.73	27633602RP2
Dual Row Straight — 72 Pins					
70.0	2664S-36-ND	5.17	37.36	306.56	26647201RP2
Dual Row, Right Angle — 72 Pins					
70.0	2764R-36-ND	7.18	64.26	529.20	27647202RP2

To Purchase A Custom Pin Header....

STEP 1 Digi-Key Part No.	STEP 2 Base Price	STEP 3 Pin Adder
2663S-XX-ND	1.01	.06
2763R-XX-ND	.98	.06
2664S-XX-ND	1.90	.11
2764R-XX-ND	2.76	.15

How to Order 2mm Headers — 4 Easy Steps

Q. **How do I order a 2663S header with 16 pins?**

A. **Call Digi-Key where you'll receive the price or determine the cost yourself.**

Step 1. Select needed "Digi-Key Part Number" and number of pins desired.

Step 2. Begin with appropriate "Base Price" of your selected Part Number (refer to chart).

Step 3. Multiply the number of pins you desire (minus one) by "Pin Adder" of your selected Part Number (refer to chart).

Step 4. Add Step 2 and Step 3 together for Final Cost.

2 ☐☐☐☐ - ☐☐ - ND

Base Part Number — Number of Desired Pins Per Row

OUR EXAMPLE		YOUR DIGI-KEY PART NUMBER	
Step 1.	2663S-16-ND	Step 1.	2 _ _ _ _ - _ _ - ND
Step 2.	1.01	Step 2.	_____
Step 3.	15 x .06 = .90	Step 3.	x = _____
Step 4.	Your Cost = $1.91	Step 4.	Your Cost = _____

NOTE: For Quantities of 10 or More, Call Digi-Key.

2mm Shunts

Materials:

• Housing Material: Glass filled thermoplastic, UL flammability rating 94V-0 • Color: Black • Contact Material: High Performance Copper Alloy

Fig. 1

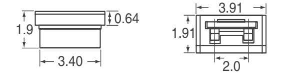

Low Profile

Fig. 2

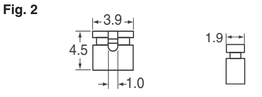

Standard Profile

Fig.	Finish	Digi-Key Part No.	Pricing 1	10	100	500	NorComp Part No.
1	Tin	LP1-006E-ND	.76	4.48	31.20	136.00	810-002-LP1R006
	Gold*	LP1-001E-ND	.95	5.72	41.80	179.30	810-002-LP1R001
2	Gold*	SP2-001E-ND	.49	4.34	35.70	123.25	810-002-SP2L001

* 30µ" gold plated

2mm Receptacles

Features:

• Printed Circuit Board Mounted Receptacle • .079" (2mm) centers for real estate savings • Single and Dual Row Offerings • 15 microinches selective gold • Insulator, housing, material is glass filled thermoplastic, UL Rating 94V-0 • Color: Black • Contact material is phosphor bronze

Single Row – Vertical Receptacle

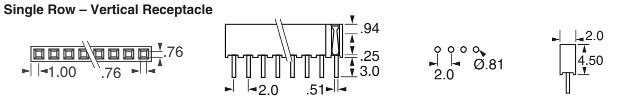

Dual Row – Vertical Receptacle

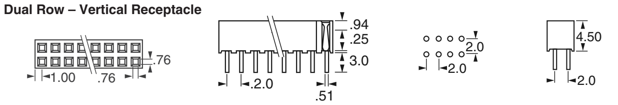

Single Row – Vertical SMT Receptacle

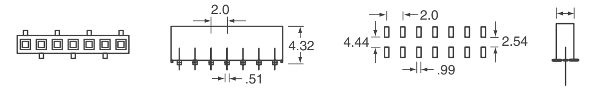

Dual Row – Vertical SMT Receptacle

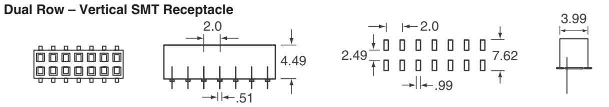

No. of Positions	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Single Row Vertical — RoHS Compliant					
2	2563S-02-ND	1.72	1.10	.84	25630201RP2
3	2563S-03-ND	1.43	1.28	1.05	25630301RP2
4	2563S-04-ND	1.66	1.49	1.23	25630401RP2
5	2563S-05-ND	1.71	1.53	1.26	25630501RP2
6	2563S-06-ND	1.96	1.76	1.45	25630601RP2
7	2563S-07-ND	2.15	1.92	1.59	25630701RP2
8	2563S-08-ND	2.33	2.09	1.72	25630801RP2
9	2563S-09-ND	2.48	2.22	1.83	25630901RP2
10	2563S-10-ND	2.89	1.96	1.54	25631001RP2
11	2563S-11-ND	3.06	2.08	1.63	25631101RP2
12	2563S-12-ND	2.99	2.68	2.21	25631201RP2
14	2563S-14-ND	3.08	2.76	2.27	25631401RP2
15	2563S-15-ND	3.47	3.11	2.56	25631501RP2
20	2563S-20-ND	4.02	3.60	2.97	25632001RP2
28	2563S-28-ND	5.27	4.72	3.89	25632801RP2
36	2563S-36-ND	5.93	5.31	4.37	25633601RP2
Dual Row Vertical					
18	2064S-09-ND	3.79	3.40	2.80	2064-18-01-P2
24	2064S-12-ND	4.76	4.26	3.51	2064-24-01-P2
Dual Row Vertical — RoHS Compliant					
4	2564S-02-ND	1.37	1.23	1.01	25640401RP2
6	2564S-03-ND	1.88	1.69	1.39	25640601RP2
8	2564S-04-ND	2.19	1.97	1.62	25640801RP2
10	2564S-05-ND	2.51	2.25	1.85	25641001RP2
12	2564S-06-ND	2.82	2.53	2.08	25641201RP2
14	2564S-07-ND	3.14	2.81	2.31	25641401RP2
16	2564S-08-ND	3.66	3.28	2.70	25641601RP2
18	2564S-09-ND	3.79	3.40	2.80	25641801RP2
20	2564S-10-ND	4.10	3.68	3.03	25642001RP2
22	2564S-11-ND	4.42	3.96	3.26	25642201RP2
24	2564S-12-ND	4.76	4.26	3.51	25642401RP2
30	2564S-15-ND	4.96	4.44	3.66	25643001RP2
50	2564S-25-ND	5.59	5.00	4.12	25645001RP2
72	2564S-36-ND	12.69	11.36	9.35	25647201RP2
Single Row Vertical SMT — RoHS Compliant					
4	2863S-04-ND	.76	.68	.56	28630406RP2
6	2863S-06-ND	.97	.87	.72	28630606RP2
8	2863S-08-ND	1.27	1.14	.94	28630806RP2
10	2863S-10-ND	1.45	1.30	1.07	28631006RP2
12	2863S-12-ND	1.65	1.48	1.22	28631206RP2
13	2863S-13-ND	1.97	1.76	1.45	28631306RP2
15	2863S-15-ND	2.25	2.02	1.66	28631506RP2
Dual Row Vertical SMT — RoHS Compliant					
8	2864S-08-ND	1.21	1.09	.90	28640806RP2
12	2864S-12-ND	1.45	1.31	1.08	28641206RP2
16	2864S-16-ND	2.31	1.57	1.21	28641606RP2
20	2864S-20-ND	2.33	2.09	1.72	28642006RP2
24	2864S-24-ND	2.65	2.38	1.96	28642406RP2
26	2864S-26-ND	3.14	2.81	2.31	28642606RP2
30	2864S-30-ND	3.48	3.12	2.57	28643006RP2

HRS HIROSE ELECTRIC CO.,LTD.

DF1B Series Connectors for Discrete Wire Connection 2.5mm Pitch

Features:
- A single or double row contact arrangement is available to both PCB to cable and adapter series with tin or gold plating
- A tall header supporting the potting processing of the PCB (with resin filled) for waterproof measures is available

Applications: Copy machine, printer, office equipment

Specifications:
• UL: E52653 and CSA: LR95109 • Current Rating: 20-22AWG: 3A, 24-28AWG: 1A and 30AWG: 0.5A • Voltage Rating: 30VAC • Operating Temperature Range: -35°C ~ 85°C • Operating Moisture Range: 40% ~ 80% • Insulation Resistance: 500VDC, 1000MΩ minimum • Withstanding Voltage: 1 minute at rated value, 650VAC (no flashover or insulation breakdown) • Contact Resistance: 100mA, 30mΩ maximum

Material:
• Insulator: Polyamide, white, UL94V-0 • Contacts: Socket/Plug: Phosphor copper with gold or tin plating Header: Brass with gold or tin plating

Fig. 1

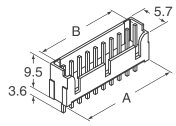

Fig. 2

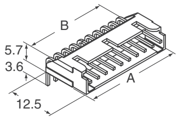

Fig. 3

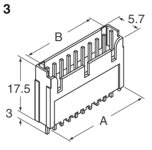

Fig. 4

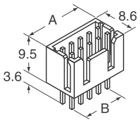

Fig. 5

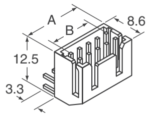

Fig. 6

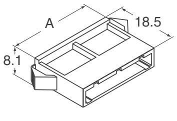

Fig. 7

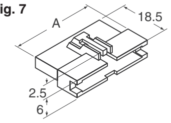

Mates to full lock type receptacles only

Fig. 8

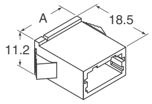

Fig. 9

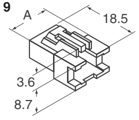

Mates to full lock type receptacles only

Fig. 10

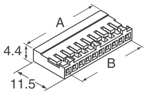

Fig. 11

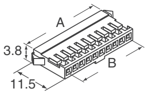

Mates to full type plugs only

Fig. 12

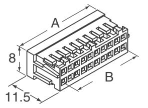

Fig. 13

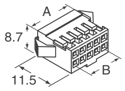

Mates to full type plugs only

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
VERTICAL PIN HEADERS								
Single Row								
Tin Plating								
1	7	20	15	H3505-ND	.49	7.28	22.80	DF1B-7P-2.5DSA
	9	25	20	H3507-ND	.60	8.93	27.97	DF1B-9P-2.5DSA
	10	27.5	22.5	H3508-ND	.67	10.05	31.49	DF1B-10P-2.5DSA
	11	30	25	H3509-ND	.72	10.73	33.61	DF1B-11P-2.5DSA
	13	35	30	H3511-ND	.60	10.79	35.33	DF1B-13P-2.5DSA
	14	37.5	32.5	H3512-ND	.63	11.34	37.13	DF1B-14P-2.5DSA
	15	40	35	H3513-ND	.78	14.09	46.13	DF1B-15P-2.5DSA
	16	42.5	37.5	H3514-ND	.81	14.64	47.93	DF1B-16P-2.5DSA
	18	47.5	42.5	H3515-ND	.86	15.61	51.08	DF1B-18P-2.5DSA
	20	52.2	47.5	H3516-ND	.92	16.64	54.45	DF1B-20P-2.5DSA
Tin Plating — RoHS Compliant								
1	2	7.5	2.5	H10982-ND	.35	4.19	12.50	DF1BZ-2P-2.5DSA
	3	10	5	H10983-ND	.43	5.11	15.25	DF1BZ-3P-2.5DSA
	4	12.5	7.5	H10984-ND	.48	5.78	17.25	DF1BZ-4P-2.5DSA
	5	15	10	H10985-ND	.55	6.62	19.75	DF1BZ-5P-2.5DSA
	6	17.5	12.5	H10986-ND	.47	7.05	22.09	DF1BZ-6P-2.5DSA
	7	20	15	H10987-ND	.51	7.58	23.74	DF1BZ-7P-2.5DSA
	8	22.5	17.5	H10988-ND	.55	8.18	25.62	DF1BZ-8P-2.5DSA
	9	25	20	H10989-ND	.62	9.30	29.14	DF1BZ-9P-2.5DSA
	10	27.5	22.5	H10990-ND	.70	10.43	32.67	DF1BZ-10P-2.5DSA
	11	30	25	H10991-ND	.75	11.18	35.02	DF1BZ-11P-2.5DSA
	12	32.5	27.5	H10992-ND	.59	10.73	35.10	DF1BZ-12P-2.5DSA
	13	35	30	H10993-ND	.62	11.21	36.68	DF1BZ-13P-2.5DSA
	14	37.5	32.5	H10994-ND	.65	11.76	38.48	DF1BZ-14P-2.5DSA
	15	40	35	H10995-ND	.84	15.13	49.50	DF1BZ-15P-2.5DSA
	16	42.5	37.5	H10996-ND	.87	15.81	51.75	DF1BZ-16P-2.5DSA
	18	47.5	42.5	H10997-ND	.91	16.50	54.00	DF1BZ-18P-2.5DSA
	20	52.2	47.5	H10998-ND	.99	17.88	58.50	DF1BZ-20P-2.5DSA
Gold Plating — RoHS Compliant								
1	2	7.5	2.5	H3615-ND	.41	6.08	19.04	DF1B-2P-2.5DSA(01)
	3	10	5	H3616-ND	.54	8.10	25.38	DF1B-3P-2.5DSA(01)
	4	12.5	7.5	H3617-ND	.66	9.83	30.79	DF1B-4P-2.5DSA(01)
	5	15	10	H3618-ND	.60	10.86	35.55	DF1B-5P-2.5DSA(01)
	6	17.5	12.5	H3619-ND	.72	13.06	42.75	DF1B-6P-2.5DSA(01)
	7	20	15	H3620-ND	.84	15.13	49.50	DF1B-7P-2.5DSA(01)
1	8	22.5	17.5	H3621-ND	.91	16.50	54.00	DF1B-8P-2.5DSA(01)
	9	25	20	H3622-ND	1.03	18.56	60.75	DF1B-9P-2.5DSA(01)
	10	27.5	22.5	H3623-ND	1.14	20.63	67.50	DF1B-10P-2.5DSA(01)
	11	30	25	H3624-ND	1.22	22.00	72.00	DF1B-11P-2.5DSA(01)
	12	32.5	27.5	H3625-ND	1.33	24.06	78.75	DF1B-12P-2.5DSA(01)
	13	35	30	H3626-ND	1.41	25.44	83.25	DF1B-13P-2.5DSA(01)
	14	37.5	32.5	H3627-ND	1.48	26.81	87.75	DF1B-14P-2.5DSA(01)
	15	40	35	H3628-ND	1.71	30.94	101.25	DF1B-15P-2.5DSA(01)
	16	42.5	37.5	H3629-ND	1.79	32.31	105.75	DF1B-16P-2.5DSA(01)
	18	47.5	42.5	H3630-ND	1.90	34.31	112.28	DF1B-18P-2.5DSA(01)
	20	52.2	47.5	H3631-ND	1.85	35.63	114.00	DF1B-20P-2.5DSA(01)
Single Row Right Angle								
Tin Plating								
2	5	15	10	H3520-ND	.48	7.20	22.56	DF1B-5P-2.5DS
	7	20	15	H3522-ND	.60	8.93	27.97	DF1B-7P-2.5DS
	10	27.5	22.5	H3525-ND	.62	11.14	36.45	DF1B-10P-2.5DS
	13	35	30	H3528-ND	.71	12.79	41.85	DF1B-13P-2.5DS
Tin Plating — RoHS Compliant								
2	2	7.5	2.5	H10999-ND	.46	5.44	16.25	DF1BZ-2P-2.5DS
	3	10	5	H11000-ND	.55	6.53	19.50	DF1BZ-3P-2.5DS
	4	12.5	7.5	H11001-ND	.43	6.38	19.98	DF1BZ-4P-2.5DS
	5	15	10	H11002-ND	.50	7.50	23.50	DF1BZ-5P-2.5DS
	6	17.5	12.5	H11003-ND	.58	8.63	27.03	DF1BZ-6P-2.5DS
	7	20	15	H11004-ND	.62	9.30	29.14	DF1BZ-7P-2.5DS
	8	22.5	17.5	H11005-ND	.66	9.83	30.79	DF1BZ-8P-2.5DS
	9	25	20	H11006-ND	.57	10.38	33.98	DF1BZ-9P-2.5DS
	10	27.5	22.5	H11007-ND	.64	11.55	37.80	DF1BZ-10P-2.5DS
	11	30	25	H11008-ND	.67	12.10	39.60	DF1BZ-11P-2.5DS
	12	32.5	27.5	H11009-ND	.70	12.72	41.63	DF1BZ-12P-2.5DS
	13	35	30	H11010-ND	.76	13.75	45.00	DF1BZ-13P-2.5DS
	14	37.5	32.5	H11011-ND	.80	14.44	47.25	DF1BZ-14P-2.5DS
	15	40	35	H11012-ND	.95	17.19	56.25	DF1BZ-15P-2.5DS
	16	42.5	37.5	H11013-ND	.99	17.88	58.50	DF1BZ-16P-2.5DS
	18	47.5	42.5	H11014-ND	1.06	19.25	63.00	DF1BZ-18P-2.5DS
	20	52.2	47.5	H11015-ND	1.10	19.94	65.25	DF1BZ-20P-2.5DS
Gold Plating — RoHS Compliant								
2	2	7.5	2.5	H3632-ND	.51	7.58	23.74	DF1B-2P-2.5DS(01)
	3	10	5	H3633-ND	.66	9.90	31.02	DF1B-3P-2.5DS(01)
	4	12.5	7.5	H3634-ND	.60	10.86	35.55	DF1B-4P-2.5DS(01)
	5	15	10	H3635-ND	.76	13.75	45.00	DF1B-5P-2.5DS(01)
	6	17.5	12.5	H3636-ND	.87	15.81	51.75	DF1B-6P-2.5DS(01)
	7	20	15	H3637-ND	.95	17.19	56.25	DF1B-7P-2.5DS(01)
	8	22.5	17.5	H3638-ND	1.06	19.25	63.00	DF1B-8P-2.5DS(01)
	9	25	20	H3639-ND	1.22	22.00	72.00	DF1B-9P-2.5DS(01)
	10	27.5	22.5	H3640-ND	1.33	24.06	78.75	DF1B-10P-2.5DS(01)
	11	30	25	H3641-ND	1.44	26.13	85.50	DF1B-11P-2.5DS(01)
	12	32.5	27.5	H3642-ND	1.56	28.19	92.25	DF1B-12P-2.5DS(01)
	13	35	30	H3643-ND	1.56	28.19	92.25	DF1B-13P-2.5DS(01)
	14	37.5	32.5	H3644-ND	1.75	31.63	103.50	DF1B-14P-2.5DS(01)
	15	40	35	H3645-ND	1.72	33.13	106.00	DF1B-15P-2.5DS(01)
	16	42.5	37.5	H11097-ND	.99	17.88	58.50	DF1BZ-16P-2.5DS(11)
	18	47.5	42.5	H3647-ND	1.95	37.50	120.00	DF1B-18P-2.5DS(01)
	20	52.2	47.5	H3648-ND	2.15	41.25	132.00	DF1B-20P-2.5DS(01)
Single Row for Potting								
TIn Plating								
3	2	7.5	2.5	H3534-ND	.89	16.09	52.65	DF1BD-2P-2.5DSA
Tin Plating — RoHS Compliant								
3	2	7.5	2.5	H11016-ND	.95	17.19	56.25	DF1BD-2P-2.5DSA(05)
	3	10	5	H11017-ND	.99	17.88	58.50	DF1BD-3P-2.5DSA(05)
	4	12.5	7.5	H11018-ND	1.06	19.25	63.00	DF1BD-4P-2.5DSA(05)
	5	15	10	H11019-ND	1.10	19.94	65.25	DF1BD-5P-2.5DSA(05)
	6	17.5	12.5	H11020-ND	1.18	21.31	69.75	DF1BD-6P-2.5DSA(05)
	7	20	15	H11021-ND	1.25	22.69	74.25	DF1BD-7P-2.5DSA(05)
	8	22.5	17.5	H11022-ND	1.29	23.38	76.50	DF1BD-8P-2.5DSA(05)
	9	25	20	H11023-ND	1.37	24.75	81.00	DF1BD-9P-2.5DSA(05)
	10	27.5	22.5	H11024-ND	1.44	26.13	85.50	DF1BD-10P-2.5DSA(05)
Double Row								
Tin Plating								
4	4	7.5	2.5	H3560-ND	.44	6.53	20.45	DF1B-4DP-2.5DSA
	18	25	20	H3567-ND	.92	16.64	54.45	DF1B-18DP-2.5DSA
	20	27.5	22.5	H3568-ND	1.01	18.29	59.85	DF1B-20DP-2.5DSA
	36	47.5	42.5	H3575-ND	1.83	33.14	108.45	DF1B-36DP-2.5DSA
	40	52.5	47.5	H3576-ND	1.65	31.81	101.80	DF1B-40DP-2.5DSA

(Continued)

HIROSE ELECTRIC CO.,LTD.

DF1B Series Connectors for Discrete Wire Connection - 2.5mm Pitch *(Cont.)*

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Tin Plating — RoHS Compliant								
4	4	7.5	2.5	H11042-ND	.46	6.83	21.39	DF1BZ-4DP-2.5DSA
	6	10	5	H11043-ND	.57	8.48	26.56	DF1BZ-6DP-2.5DSA
	8	12.5	7.5	H11044-ND	.67	10.05	31.49	DF1BZ-8DP-2.5DSA
	10	15	10	H11045-ND	.62	11.14	36.45	DF1BZ-10DP-2.5DSA
	12	17.5	12.5	H11046-ND	.70	12.58	41.18	DF1BZ-12DP-2.5DSA
	14	20	15	H11047-ND	.80	14.44	47.25	DF1BZ-14DP-2.5DSA
	16	22.5	17.5	H11048-ND	.87	15.81	51.75	DF1BZ-16DP-2.5DSA
	18	25	20	H11049-ND	.99	17.88	58.50	DF1BZ-18DP-2.5DSA
	20	27.5	22.5	H11050-ND	1.06	19.25	63.00	DF1BZ-20DP-2.5DSA
	22	30	25	H11051-ND	1.22	22.00	72.00	DF1BZ-22DP-2.5DSA
	24	32.5	27.5	H11052-ND	1.29	23.38	76.50	DF1BZ-24DP-2.5DSA
	26	35	30	H11053-ND	1.37	24.75	81.00	DF1BZ-26DP-2.5DSA
	28	37.5	32.5	H11054-ND	1.41	25.44	83.25	DF1BZ-28DP-2.5DSA
	30	40	35	H11055-ND	1.63	29.56	96.75	DF1BZ-30DP-2.5DSA
	34	45	40	H11056-ND	1.79	32.31	105.75	DF1BZ-34DP-2.5DSA
	36	47.5	42.5	H11057-ND	1.63	31.25	100.00	DF1BZ-36DP-2.5DSA
	40	52.5	47.5	H11058-ND	1.72	33.13	106.00	DF1BZ-40DP-2.5DSA
Gold Plating — RoHS Compliant								
4	4	7.5	2.5	H3666-ND	.70	10.43	32.67	DF1B-4DP-2.5DSA(01)
	6	10	5	H3667-ND	.68	12.31	40.28	DF1B-6DP-2.5DSA(01)
	8	12.5	7.5	H3668-ND	.84	15.13	49.50	DF1B-8DP-2.5DSA(01)
	10	15	10	H3669-ND	.99	17.88	58.50	DF1B-10DP-2.5DSA(01)
	12	17.5	12.5	H3670-ND	1.14	20.63	67.50	DF1B-12DP-2.5DSA(01)
	14	20	15	H3671-ND	1.29	23.38	76.50	DF1B-14DP-2.5DSA(01)
	16	22.5	17.5	H3672-ND	1.44	26.13	85.50	DF1B-16DP-2.5DSA(01)
	18	25	20	H3673-ND	1.60	28.88	94.50	DF1B-18DP-2.5DSA(01)
	20	27.5	22.5	H3674-ND	1.75	31.63	103.50	DF1B-20DP-2.5DSA(01)
	22	30	25	H3675-ND	1.72	33.13	106.00	DF1B-22DP-2.5DSA(01)
	24	32.5	27.5	H3676-ND	1.85	35.63	114.00	DF1B-24DP-2.5DSA(01)
	26	35	30	H3677-ND	1.98	38.13	122.00	DF1B-26DP-2.5DSA(01)
	28	37.5	32.5	H3678-ND	2.11	40.63	130.00	DF1B-28DP-2.5DSA(01)
	30	40	35	H3679-ND	2.31	44.38	142.00	DF1B-30DP-2.5DSA(01)
	34	45	40	H3680-ND	2.54	48.75	156.00	DF1B-34DP-2.5DSA(01)
	36	47.5	42.5	H3681-ND	2.76	53.13	170.00	DF1B-36DP-2.5DSA(01)
	40	52.5	47.5	H3682-ND	2.93	56.25	180.00	DF1B-40DP-2.5DSA(01)
Double Row Right Angle								
Tin Plating								
5	8	12.5	7.5	H3545-ND	.74	11.10	34.78	DF1B-8DP-2.5DS
	12	17.5	12.5	H3547-ND	.78	14.03	45.90	DF1B-12DP-2.5DS
	14	20	15	H3548-ND	.86	15.47	50.63	DF1B-14DP-2.5DS
	20	27.5	22.5	H3551-ND	1.17	21.24	69.53	DF1B-20DP-2.5DS
	22	30	25	H3552-ND	1.32	23.86	78.08	DF1B-22DP-2.5DS
	26	35	30	H3554-ND	1.49	26.95	88.20	DF1B-26DP-2.5DS
	40	52.5	47.5	H3559-ND	1.92	37.00	118.40	DF1B-40DP-2.5DS
Tin Plating — RoHS Compliant								
5	4	7.5	2.5	H11025-ND	.52	7.80	24.44	DF1BZ-4DP-2.5DS
	6	10	5	H11026-ND	.66	9.83	30.79	DF1BZ-6DP-2.5DS
	8	12.5	7.5	H11027-ND	.59	10.59	34.65	DF1BZ-8DP-2.5DS
	10	15	10	H11028-ND	.72	13.06	42.75	DF1BZ-10DP-2.5DS
	12	17.5	12.5	H11029-ND	.84	15.13	49.50	DF1BZ-12DP-2.5DS
	14	20	15	H11030-ND	.91	16.50	54.00	DF1BZ-14DP-2.5DS
	16	22.5	17.5	H11031-ND	.99	17.88	58.50	DF1BZ-16DP-2.5DS
	18	25	20	H11032-ND	1.14	20.63	67.50	DF1BZ-18DP-2.5DS
	20	27.5	22.5	H11033-ND	1.22	22.00	72.00	DF1BZ-20DP-2.5DS
	22	30	25	H11034-ND	1.37	24.75	81.00	DF1BZ-22DP-2.5DS
	24	32.5	27.5	H11035-ND	1.48	26.81	87.75	DF1BZ-24DP-2.5DS
	26	35	30	H11036-ND	1.56	28.19	92.25	DF1BZ-26DP-2.5DS
	28	37.5	32.5	H11037-ND	1.75	31.63	103.50	DF1BZ-28DP-2.5DS
	30	40	35	H11038-ND	1.66	31.88	102.00	DF1BZ-30DP-2.5DS
	34	45	40	H11039-ND	1.79	34.38	110.00	DF1BZ-34DP-2.5DS
	36	47.5	42.5	H11040-ND	1.92	36.88	118.00	DF1BZ-36DP-2.5DS
	40	52.5	47.5	H11041-ND	2.02	38.75	124.00	DF1BZ-40DP-2.5DS
Gold Plating — RoHS Compliant								
5	4	7.5	2.5	H3649-ND	.65	11.76	38.48	DF1B-4DP-2.5DS(01)
	6	10	5	H3650-ND	.91	16.50	54.00	DF1B-6DP-2.5DS(01)
	8	12.5	7.5	H3651-ND	1.14	20.63	67.50	DF1B-8DP-2.5DS(01)
	10	15	10	H3652-ND	1.41	25.44	83.25	DF1B-10DP-2.5DS(01)
	12	17.5	12.5	H3653-ND	1.63	29.56	96.75	DF1B-12DP-2.5DS(01)
	14	20	15	H3654-ND	1.82	33.00	108.00	DF1B-14DP-2.5DS(01)
	16	22.5	17.5	H3655-ND	1.76	33.75	108.00	DF1B-16DP-2.5DS(01)
	18	25	20	H3656-ND	1.98	38.13	122.00	DF1B-18DP-2.5DS(01)
	20	27.5	22.5	H3657-ND	2.21	42.50	136.00	DF1B-20DP-2.5DS(01)
	22	30	25	H3658-ND	2.44	46.88	150.00	DF1B-22DP-2.5DS(01)
	24	32.5	27.5	H3659-ND	2.63	50.63	162.00	DF1B-24DP-2.5DS(01)
	26	35	30	H3660-ND	2.83	54.38	174.00	DF1B-26DP-2.5DS(01)
	28	37.5	32.5	H3661-ND	3.02	58.13	186.00	DF1B-28DP-2.5DS(01)
	30	40	35	H3662-ND	2.96	57.38	183.60	DF1B-30DP-2.5DS(01)
	34	45	40	H3663-ND	3.31	64.13	205.20	DF1B-34DP-2.5DS(01)
	36	47.5	42.5	H3664-ND	3.63	70.31	225.00	DF1B-36DP-2.5DS(01)
	40	52.5	47.5	H3665-ND	3.83	74.25	237.60	DF1B-40DP-2.5DS(01)
IN-LINE PLUGS — RoHS Compliant ***(order contacts separately)***								
Single Row (simple lock type)								
6	2	7.1	—	H3683-ND	.39	4.61	13.75	DF1BA-2EP-2.5RC
	3	9.6	—	H3684-ND	.43	5.11	15.25	DF1BA-3EP-2.5RC
	4	12.1	—	H3685-ND	.48	5.70	17.00	DF1BA-4EP-2.5RC
	5	14.6	—	H3686-ND	.44	6.53	20.45	DF1BA-5EP-2.5RC
6	6	17.1	—	H3687-ND	.46	6.83	21.39	DF1BA-6EP-2.5RC
	7	19.6	—	H3688-ND	.49	7.35	23.03	DF1BA-7EP-2.5RC
	8	22.1	—	H3689-ND	.52	7.73	24.21	DF1BA-8EP-2.5RC
	9	24.6	—	H3690-ND	.73	10.95	34.31	DF1BA-9EP-2.5RC
	10	27.1	—	H3691-ND	.59	10.73	35.10	DF1BA-10EP-2.5RC
	11	29.6	—	H3692-ND	.61	11.07	36.23	DF1BA-11EP-2.5RC
	12	32.1	—	H3693-ND	.66	11.89	38.93	DF1BA-12EP-2.5RC
	13	34.6	—	H3694-ND	.67	12.17	39.83	DF1BA-13EP-2.5RC
	15	39.6	—	H3695-ND	.84	15.13	49.50	DF1BA-14EP-2.5RC
Single Row (full lock type)								
7	2	8.9	—	H3733-ND	.33	3.94	11.75	DF1B-2EP-2.5RC
	3	11.4	—	H3734-ND	.39	4.61	13.75	DF1B-3EP-2.5RC
	4	13.9	—	H3735-ND	.44	5.28	15.75	DF1B-4EP-2.5RC
	5	16.4	—	H3736-ND	.48	5.78	17.25	DF1B-5EP-2.5RC
	6	18.9	—	H3737-ND	.53	6.28	18.75	DF1B-6EP-2.5RC
	7	21.4	—	H3738-ND	.47	6.98	21.86	DF1B-7EP-2.5RC
	8	23.9	—	H3739-ND	.50	7.43	23.27	DF1B-8EP-2.5RC
	9	26.4	—	H3740-ND	.53	7.88	24.68	DF1B-9EP-2.5RC
	10	28.9	—	H3741-ND	.56	8.33	26.09	DF1B-10EP-2.5RC
	11	31.4	—	H3742-ND	.59	8.78	27.50	DF1B-11EP-2.5RC
	12	33.9	—	H3743-ND	.62	9.23	28.91	DF1B-12EP-2.5RC
	13	36.4	—	H3744-ND	.65	9.75	30.55	DF1B-13EP-2.5RC
Double Row (simple lock type)								
8	4	8.6	—	H3696-ND	.47	7.05	22.09	DF1BA-4DEP-2.5RC
	6	11.1	—	H3697-ND	.52	7.80	24.44	DF1BA-6DEP-2.5RC
	8	13.6	—	H3698-ND	.55	8.18	25.62	DF1BA-8DEP-2.5RC
	10	16.1	—	H3699-ND	.56	8.40	26.32	DF1BA-10DEP-2.5RC
	12	18.6	—	H3700-ND	.59	8.78	27.50	DF1BA-12DEP-2.5RC
	14	21.1	—	H3701-ND	.62	9.23	28.91	DF1BA-14DEP-2.5RC
	16	23.6	—	H3702-ND	.64	9.60	30.08	DF1BA-16DEP-2.5RC
	18	26.1	—	H3703-ND	.66	9.83	30.79	DF1BA-18DEP-2.5RC
	20	28.6	—	H3704-ND	.69	10.35	32.43	DF1BA-20DEP-2.5RC
	22	31.1	—	H3705-ND	.80	14.44	47.25	DF1BA-22DEP-2.5RC
	24	33.6	—	H3706-ND	.84	15.13	49.50	DF1BA-24DEP-2.5RC
	26	36.1	—	H3707-ND	.84	15.13	49.50	DF1BA-26DEP-2.5RC
	28	38.6	—	H3708-ND	.87	15.81	51.75	DF1BA-28DEP-2.5RC
	30	41.1	—	H3709-ND	.87	15.81	51.75	DF1BA-30DEP-2.5RC
	34	46.1	—	H3710-ND	.91	16.50	54.00	DF1BA-34DEP-2.5RC
Double Row (full lock type)								
9	10	17.2	—	H3711-ND	.84	15.13	49.50	DF1B-10DEP-2.5RC
	12	19.7	—	H3712-ND	.84	15.13	49.50	DF1B-12DEP-2.5RC
	14	22.2	—	H3713-ND	.87	15.81	51.75	DF1B-14DEP-2.5RC
	16	24.7	—	H3714-ND	.91	16.50	54.00	DF1B-16DEP-2.5RC
	18	27.2	—	H3715-ND	.99	17.88	58.50	DF1B-18DEP-2.5RC
	20	29.7	—	H3716-ND	1.03	18.56	60.75	DF1B-20DEP-2.5RC
	22	32.2	—	H3717-ND	1.06	19.25	63.00	DF1B-22DEP-2.5RC
	24	34.7	—	H3718-ND	1.10	19.94	65.25	DF1B-24DEP-2.5RC
	26	37.2	—	H3719-ND	1.14	20.63	67.50	DF1B-26DEP-2.5RC
	28	39.7	—	H3720-ND	1.22	22.00	72.00	DF1B-28DEP-2.5RC
	30	42.2	—	H3721-ND	1.25	22.69	74.25	DF1B-30DEP-2.5RC
	32	44.7	—	H3722-ND	1.29	23.38	76.50	DF1B-32DEP-2.5RC
	34	47.2	—	H3723-ND	1.33	24.06	78.75	DF1B-34DEP-2.5RC
SOCKETS — RoHS Compliant ***(order contacts separately)***								
Single Row								
10	2	5	2.5	H3781-ND	.23	2.44	6.88	DF1B-2S-2.5R
	3	7.5	5	H3782-ND	.24	2.63	7.43	DF1B-3S-2.5R
	4	10	7.5	H3783-ND	.25	2.73	7.70	DF1B-4S-2.5R
	5	12.5	10	H3784-ND	.28	3.02	8.53	DF1B-5S-2.5R
	6	15	12.5	H3785-ND	.35	3.80	10.73	DF1B-6S-2.5R
	7	17.5	15	H3786-ND	.29	3.43	10.25	DF1B-7S-2.5R
	8	20	17.5	H3787-ND	.30	3.60	10.75	DF1B-8S-2.5R
	9	22.5	20	H3788-ND	.36	4.27	12.75	DF1B-9S-2.5R
	10	25	22.5	H3789-ND	.37	4.44	13.25	DF1B-10S-2.5R
	11	27.5	25	H3790-ND	.38	4.52	13.50	DF1B-11S-2.5R
	12	30	27.5	H3791-ND	.39	4.69	14.00	DF1B-12S-2.5R
	13	32.5	30	H3792-ND	.41	4.86	14.50	DF1B-13S-2.5R
	14	35	32.5	H3793-ND	.43	5.11	15.25	DF1B-14S-2.5R
	15	37.5	35	H3794-ND	.53	6.37	19.00	DF1B-15S-2.5R
	16	40	37.5	H3795-ND	.55	6.53	19.50	DF1B-16S-2.5R
	18	45	42.5	H3796-ND	.57	6.87	20.50	DF1B-18S-2.5R
	20	50	47.5	H3797-ND	.43	6.38	19.98	DF1B-20S-2.5R
Single Row In-Line (full lock type)								
11	2	6.5	2.5	H3798-ND	.33	3.94	11.75	DF1B-2ES-2.5RC
	3	9	5	H3799-ND	.39	4.61	13.75	DF1B-3ES-2.5RC
	4	11.5	7.5	H3800-ND	.45	5.36	16.00	DF1B-4ES-2.5RC
	5	14	10	H3801-ND	.49	5.86	17.50	DF1B-5ES-2.5RC
	6	16.5	12.5	H3802-ND	.53	6.37	19.00	DF1B-6ES-2.5RC
	7	19	15	H3803-ND	.48	7.20	22.56	DF1B-7ES-2.5RC
	8	21.5	17.5	H3804-ND	.51	7.65	23.97	DF1B-8ES-2.5RC
	9	24	20	H3805-ND	.54	8.10	25.38	DF1B-9ES-2.5RC
	10	26.5	22.5	H3806-ND	.57	8.48	26.56	DF1B-10ES-2.5RC
	11	29	25	H3807-ND	.60	9.00	28.20	DF1B-11ES-2.5RC
	12	31.5	27.5	H3808-ND	.63	9.45	29.61	DF1B-12ES-2.5RC
	13	34	30	H3809-ND	.66	9.90	31.02	DF1B-13ES-2.5RC
Double Row								
12	4	7.5	2.5	H3810-ND	.39	4.69	14.00	DF1B-4DS-2.5RC
	6	10	5	H3811-ND	.43	5.19	15.50	DF1B-6DS-2.5RC
	8	12.5	7.5	H3812-ND	.48	5.70	17.00	DF1B-8DS-2.5RC
	10	15	10	H3813-ND	.51	6.11	18.25	DF1B-10DS-2.5RC
	12	17.5	12.5	H3814-ND	.55	6.62	19.75	DF1B-12DS-2.5RC
	14	20	15	H3815-ND	.42	6.30	19.74	DF1B-14DS-2.5RC
	16	22.5	17.5	H3816-ND	.45	6.75	21.15	DF1B-16DS-2.5RC
	18	25	20	H3817-ND	.48	7.13	22.33	DF1B-18DS-2.5RC
	20	27.5	22.5	H3818-ND	.52	7.73	24.21	DF1B-20DS-2.5RC
	22	30	25	H3819-ND	.54	8.10	25.38	DF1B-22DS-2.5RC
	24	32.5	27.5	H3820-ND	.58	8.70	27.26	DF1B-24DS-2.5RC
	26	35	30	H3821-ND	.61	9.15	28.67	DF1B-26DS-2.5RC
	28	37.5	32.5	H3822-ND	.65	9.68	30.32	DF1B-28DS-2.5RC
	30	40	35	H3823-ND	.68	10.13	31.73	DF1B-30DS-2.5RC

(Continued)

DF1B Series Connectors for Discrete Wire Connection - 2.5mm Pitch *(Cont.)*

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
12	34	45	40	H3824-ND	.70	10.50	32.90	DF1B-34DS-2.5RC
	36	47.5	42.5	H3825-ND	.59	10.73	35.10	DF1B-36DS-2.5RC
	40	52.5	47.5	H3826-ND	.62	11.14	36.45	DF1B-40DS-2.5RC
Double Row - In-Line (full lock type)								
13	10	15	10	H3754-ND	.87	15.81	51.75	DF1B-10DES-2.5RC
	12	17.5	12.5	H3755-ND	.91	16.50	54.00	DF1B-12DES-2.5RC
	14	20	15	H3756-ND	.95	17.19	56.25	DF1B-14DES-2.5RC
	16	22.5	17.5	H3757-ND	.99	17.88	58.50	DF1B-16DES-2.5RC
	18	25	20	H3758-ND	1.06	19.25	63.00	DF1B-18DES-2.5RC
	20	27.5	22.5	H3759-ND	1.10	19.94	65.25	DF1B-20DES-2.5RC
	22	30	25	H3760-ND	1.14	20.63	67.50	DF1B-22DES-2.5RC
	24	32.5	27.5	H3761-ND	1.18	21.31	69.75	DF1B-24DES-2.5RC
	26	35	30	H3762-ND	1.25	22.69	74.25	DF1B-26DES-2.5RC
	28	37.5	32.5	H3763-ND	1.33	24.06	78.75	DF1B-28DES-2.5RC
	30	40	35	H3764-ND	1.37	24.75	81.00	DF1B-30DES-2.5RC
	32	42.5	37.5	H3765-ND	1.41	25.44	83.25	DF1B-32DES-2.5RC
	34	45	40	H3766-ND	1.44	26.13	85.50	DF1B-34DES-2.5RC

Crimping Contacts

AWG	Digi-Key Part No.	*Loose Piece* Pricing			Hirose Part No.	*Cut Tape** Pricing		*T & R†* Pricing	Hirose Part No.
		1	25	100		1,000	3,000	10,000	
Plug Contacts — RoHS Compliant									
Tin Plating									
20-22	H3827-ND	.23	2.44	6.88	DF1B-2022PC	43.50	40.60/M	27.00/M	DF1B-2022PCF
24-28	H3831-ND	.26	2.75	6.82	DF1B-2428PC	39.00	36.40/M	23.00/M	DF1B-2428PCF
30	H3847-ND	.29	3.00	7.44	DF1B-30PC	42.00	39.20/M	24.00/M	DF1B-30PCF
Gold Plating									
20-22	H3829-ND	.43	5.11	15.25	DF1B-2022PCB	91.00	87.75/M	65.00/M	DF1B-2022PCFB
24-28	H3833-ND	.60	9.00	28.20	DF1-PD2428SCB	167.40	164.92/M	90.00/M	DF1-PD2428SCFB
30	H3849-ND	.46	5.53	16.50	DF1B-30PCB	98.00	94.50/M	70.00/M	DF1B-30PCFB
Socket Contacts — RoHS Compliant									
Tin Plating									
20-22	H3828-ND	.23	2.38	5.89	DF1B-2022SC	36.80	33.35/M	20.00/M	DF1B-2022SCF
24-28	H3832-ND	.23	2.38	5.89	DF1B-2428SC	36.80	33.35/M	19.00/M	DF1B-2428SCF
30	H3848-ND	.23	2.38	5.89	DF1B-30SC	36.80	33.35/M	19.00/M	DF1B-30SCF
Gold Plating									
20-22	H3830-ND	.32	3.85	11.50	DF1B-2022SCA	70.00	67.50/M	49.00/M	DF1B-2022SCFA
24-28	H3834-ND	.28	3.35	10.00	DF1B-2428SCA	46.50	43.40/M	39.00/M	DF1B-2428SCFA
30	H3850-ND	.28	3.35	10.00	DF1B-30SCA	61.60	59.40/M	39.00/M	DF1B-30SCFA

* For Cut Tape, add CT to the Digi-Key Part No. † For Tape and Reel, add TR to the Digi-Key Part No.

ID Contacts

AWG	Digi-Key Part No.	*Loose Piece* Pricing			Hirose Part No.	*Cut Tape** Pricing			*T & R†* Pricing	Hirose Part No.
		1	25	100		1,000	3,000	5,000	10,000	
Plug Contacts — RoHS Compliant										
Tin Plating										
24	H3835-ND	.23	2.54	7.15	DF1B-24PR	45.00	42.00/M	39.00/M	28.00/M	DF1B-24PRF
26	H3839-ND	.23	2.54	7.15	DF1B-26PR	45.00	42.00/M	39.00/M	28.00/M	DF1B-26PRF
28	H3843-ND	.23	2.54	7.15	DF1B-28PR	45.00	42.00/M	39.00/M	28.00/M	DF1B-28PRF
Gold Plating										
24	H3837-ND	.29	3.43	10.25	DF1B-24PRB	60.20	58.05/M	54.83/M	45.00/M	DF1B-24PRFB
26	H3841-ND	.35	3.80	10.73	DF1B-26PRB	60.20	58.05/M	54.83/M	45.00/M	DF1B-26PRFB
28	H3845-ND	.35	3.80	10.73	DF1B-28PRB	60.20	58.05/M	54.83/M	45.00/M	DF1B-28PRFB
Socket Contacts										
Tin Plating — RoHS Compliant										
24	H3836-ND	.19	2.00	4.96	DF1B-R24	20.80	18.85/M	17.55/M	17.00/M	DF1B-R24F
26	H3840-ND	.19	2.00	4.96	DF1B-R26	32.00	29.00/M	27.00/M	17.00/M	DF1B-R26F
28	H3844-ND	.19	2.00	4.96	DF1B-R28	32.00	29.00/M	27.00/M	17.00/M	DF1B-R28F
Gold Plating										
24	H3838CT-ND	—	—	—	—	81.20	78.30/M	73.95/M	—	DF1B-R24FA
26	H3842-ND	.38	4.52	13.50	DF1B-R26A	81.20	78.30/M	73.95/M	—	DF1B-R26FA
28	H3846-ND	.38	4.52	13.50	DF1B-R28A	81.20	78.30/M	73.95/M	—	DF1B-R28FA
Gold Plating — RoHS Compliant										
24	H11098-ND	.40	4.77	14.25	DF1B-R24A(06)	85.40	82.35/M	77.78/M	60.00/M	DF1B-R24FA(06)
26	H11099-ND	.40	4.77	14.25	DF1B-R26A(06)	85.40	82.35/M	77.78/M	60.00/M	DF1B-R26FA(06)
28	H11100-ND	.40	4.77	14.25	DF1B-R28A(06)	85.40	82.35/M	77.78/M	60.00/M	DF1B-R28FA(06)

* For Cut Tape, add CT to the Digi-Key Part No. † For Tape and Reel, add TR to the Digi-Key Part No.

Tools

Description	Digi-Key Part No.	Pricing			Hirose Part No.
		1	25	100	
Manual ID Tools					
24-28AWG, Plug	H9934-ND	1036.10	—	—	DF1B-T2428HPR
24-28AWG, Socket	H9933-ND	821.60	—	—	DF1B-T2428HR
Manual Crimping Tools					
20-22AWG, Plug	H9935-ND	821.60	—	—	DF1B-TA2022PHC
24-28AWG, Plug	H9937-ND	834.60	—	—	DF1B-TA2428PHC
30AWG, Plug	H9939-ND	834.60	—	—	DF1B-TA30PHC
20-22AWG, Socket	H9936-ND	821.60	—	—	DF1B-TA2022SHC
24-28AWG, Socket	H9938-ND	834.60	—	—	DF1B-TA2428SHC
30AWG, Socket	H9940-ND	834.60	—	—	DF1B-TA30SHC
Extraction Tools					
ID Socket	H9930-ND	3.02	58.50	187.20	DF-C-P0(A)
ID/Crimp Pin	H9932-ND	11.80	—	—	DF-C-P0(C)

DF1E Series Connectors

2.5 Pitch for Full Lock and Discrete Wire Connection

Features:
- The inner lock system adopts a full lock mechanism. This mechanism prevents disengagement to occur due to an unexpected external shock • The double lock is activated for the use method to give a stress to the cable, to increase crimping contact fixation force, and to prevent the semi-insertion of the crimping contact • Equipped with the mechanism to completely prevent reverse insertion and insertion between dissimilar contacts

Applications:
- Electronic equipment • Office machines • Industrial equipment • Consumer equipment

Specifications:
- UL: E52653 • Current Rating: 20-22AWG: 3A, 24-28AWG: 1A and 30AWG: 0.5A • Voltage Rating: 30VAC • Operating Temperature Range: -35°C ~ 85°C • Operating Moisture Range: 20% ~ 80% • Insulation Resistance: 500VDC, 1000MΩ minimum • Withstanding Voltage: 1 minute at rated value, 650VAC (no flashover or insulation breakdown) • Contact Resistance: Measured at 20mV maximum and 1mA, 30mΩ maximum

Material:
- Insulator: Polyamide, white, UL94V-0 (header insulator: beige and retainer insulator: black) • Contacts: Crimping: Phosphor copper with tin plating • Header: Brass with solder plating

Fig. 1

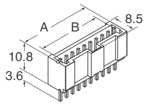

Fig. 2

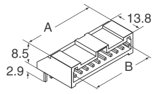

Fig. 3

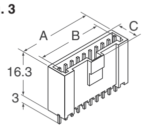

Fig. 4

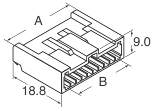

Fig. 5

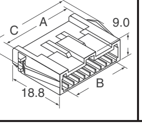

Fig. 6

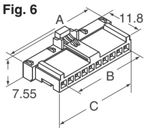

Fig. 7

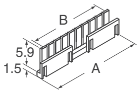

Fig.	No. of Contacts	Dimensions (mm)			Digi-Key Part No.	Pricing			Hirose Part No.
		A	B	C		1	25	100	
Pin Headers (Tin Plating)									
Vertical									
1	2	7.5	2.5	—	H3591-ND	.38	4.52	13.50	DF1EC-2P-2.5DSA
	4	12.5	7.5	—	H3593-ND	.52	6.20	18.50	DF1EC-4P-2.5DSA
	5	15.0	10.0	—	H3594-ND	.42	6.30	19.74	DF1EC-5P-2.5DSA
	6	17.5	12.5	—	H3595-ND	.55	8.18	25.62	DF1EC-6P-2.5DSA
	7	20.0	15.0	—	H3596-ND	.60	9.00	28.20	DF1EC-7P-2.5DSA
	9	25.0	20.0	—	H3598-ND	.71	10.65	33.37	DF1EC-9P-2.5DSA
	12	32.5	27.5	—	H3601-ND	.78	14.16	46.35	DF1EC-12P-2.5DSA
Vertical — RoHS Compliant									
1	2	7.5	2.5	—	H11073-ND	.80	14.44	47.25	DF1EC-2P-2.5DSA(05)
	3	10.0	5.0	—	H11074-ND	.91	16.50	54.00	DF1EC-3P-2.5DSA(05)
	4	12.5	7.5	—	H11075-ND	.99	17.88	58.50	DF1EC-4P-2.5DSA(05)
	5	15.0	10.0	—	H11076-ND	1.10	19.94	65.25	DF1EC-5P-2.5DSA(05)
	6	17.5	12.5	—	H11077-ND	1.25	22.69	74.25	DF1EC-6P-2.5DSA(05)
	7	20.0	15.0	—	H11078-ND	1.41	25.44	83.25	DF1EC-7P-2.5DSA(05)
	8	22.5	17.5	—	H11079-ND	1.48	26.81	87.75	DF1EC-8P-2.5DSA(05)
	9	25.0	20.0	—	H11080-ND	1.52	27.50	90.00	DF1EC-9P-2.5DSA(05)
	10	27.5	22.5	—	H11081-ND	1.60	28.88	94.50	DF1EC-10P-2.5DSA(05)
	11	30.0	25.0	—	H11082-ND	1.82	33.00	108.00	DF1EC-11P-2.5DSA(05)
	12	32.5	27.5	—	H11083-ND	1.82	33.00	108.00	DF1EC-12P-2.5DSA(05)
	13	35.0	30.0	—	H11084-ND	1.66	31.88	102.00	DF1EC-13P-2.5DSA(05)
	14	37.5	32.5	—	H11085-ND	1.69	32.50	104.00	DF1EC-14P-2.5DSA(05)
	15	40.0	35.0	—	H11086-ND	1.72	33.13	106.00	DF1EC-15P-2.5DSA(05)
Right Angle									
2	2	7.5	2.5	—	H3577-ND	.43	5.19	15.50	DF1E-2P-2.5DS
	4	12.5	7.5	—	H3579-ND	.41	6.15	19.27	DF1E-4P-2.5DS
	6	17.5	12.5	—	H3581-ND	.60	8.93	27.97	DF1E-6P-2.5DS
	8	22.5	17.5	—	H3583-ND	.72	10.73	33.61	DF1E-8P-2.5DS
	10	27.5	22.5	—	H3585-ND	.66	11.96	39.15	DF1E-10P-2.5DS
	12	32.5	27.5	—	H3587-ND	.86	15.47	50.63	DF1E-12P-2.5DS
	14	37.5	32.5	—	H3589-ND	.93	16.84	55.13	DF1E-14P-2.5DS
Right Angle — RoHS Compliant									
2	2	7.5	2.5	—	H11059-ND	.62	11.14	36.45	DF1E-2P-2.5DS(05)
	3	10.0	5.0	—	H11060-ND	.72	13.06	42.75	DF1E-3P-2.5DS(05)
	4	12.5	7.5	—	H11061-ND	.76	13.75	45.00	DF1E-4P-2.5DS(05)
	5	15.0	10.0	—	H11062-ND	.84	15.13	49.50	DF1E-5P-2.5DS(05)
	6	17.5	12.5	—	H11063-ND	.99	17.88	58.50	DF1E-6P-2.5DS(05)
	7	20.0	15.0	—	H11064-ND	1.06	19.25	63.00	DF1E-7P-2.5DS(05)
	8	22.5	17.5	—	H11065-ND	1.10	19.94	65.25	DF1E-8P-2.5DS(05)
	9	25.0	20.0	—	H11066-ND	1.18	21.31	69.75	DF1E-9P-2.5DS(05)
	10	27.5	22.5	—	H11067-ND	1.25	22.69	74.25	DF1E-10P-2.5DS(05)
	11	30.0	25.0	—	H11068-ND	1.48	26.81	87.75	DF1E-11P-2.5DS(05)
	12	32.5	27.5	—	H11069-ND	1.56	28.19	92.25	DF1E-12P-2.5DS(05)
	13	35.0	30.0	—	H11070-ND	.99	17.88	58.50	DF1E-13P-2.5DS(05)
	14	37.5	32.5	—	H11071-ND	1.67	30.25	99.00	DF1E-14P-2.5DS(05)
	15	40.0	35.0	—	H11072-ND	1.75	31.63	103.50	DF1E-15P-2.5DS(05)
Vertical for Potting									
3	2	7.5	2.5	7.8	H3605-ND	.42	6.23	19.51	DF1EG-2P-2.5DSA
	3	10.0	5.0	7.8	H3606-ND	.48	7.20	22.56	DF1EG-3P-2.5DSA
	7	20.0	15.0	8.0	H3610-ND	.74	11.10	34.78	DF1EG-7P-2.5DSA
	10	27.5	22.5	8.0	H3613-ND	.73	13.27	43.43	DF1EG-10P-2.5DSA

(Continued)

DF1E Series Connectors - 2.5mm Pitch for Full Lock and Discrete Wire Connection *(Cont.)*

Fig.	No. of Contacts	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Vertical for Potting — RoHS Compliant									
3	2	7.5	2.5	7.8	H11087-ND	.73	10.88	34.08	DF1EG-2P-2.5DSA(05)
	3	10.0	5.0	7.8	H11088-ND	.68	12.31	40.28	DF1EG-3P-2.5DSA(05)
	4	12.5	7.5	7.8	H11089-ND	.84	15.13	49.50	DF1EG-4P-2.5DSA(05)
	5	15.0	10.0	8.0	H11090-ND	1.03	18.56	60.75	DF1EG-5P-2.5DSA(05)
	6	17.5	12.5	8.0	H11091-ND	1.14	20.63	67.50	DF1EG-6P-2.5DSA(05)
	7	20.0	15.0	8.0	H11092-ND	1.25	22.69	74.25	DF1EG-7P-2.5DSA(05)
	8	22.5	17.5	8.0	H11093-ND	1.41	25.44	83.25	DF1EG-8P-2.5DSA(05)
	9	25.0	20.0	8.0	H11094-ND	1.56	28.19	92.25	DF1EG-9P-2.5DSA(05)
	10	27.5	22.5	8.0	H11095-ND	1.75	31.63	103.50	DF1EG-10P-2.5DSA(05)
	11	30.0	25.0	8.0	H11096-ND	1.63	31.25	100.00	DF1EG-11P-2.5DSA(05)
In-Line Plugs — RoHS Compliant									
4	2	8.0	2.5	—	H3724-ND	.57	10.31	33.75	DF1EA-2EP-2.5C
	3	10.5	5.0	—	H3725-ND	.61	11.00	36.00	DF1EA-3EP-2.5C
	4	13.0	7.5	—	H3726-ND	.65	11.83	38.70	DF1EA-4EP-2.5C
	5	15.5	10.0	—	H3727-ND	.72	13.06	42.75	DF1EA-5EP-2.5C
	6	18.0	12.5	—	H3728-ND	.76	13.75	45.00	DF1EA-6EP-2.5C
	7	20.5	15.0	—	H3729-ND	.84	15.13	49.50	DF1EA-7EP-2.5C
	8	23.0	17.5	—	H3730-ND	.87	15.81	51.75	DF1EA-8EP-2.5C
	9	25.5	20.0	—	H3731-ND	.91	16.50	54.00	DF1EA-9EP-2.5C
	10	28.0	22.5	—	H3732-ND	.95	17.19	56.25	DF1EA-10EP-2.5C
Panel Mount Lock Type									
5	2	8.0	2.5	15.0	H3745-ND	.57	10.31	33.75	DF1E-2EP-2.5C
	3	10.5	5.0	17.5	H3746-ND	.61	11.00	36.00	DF1E-3EP-2.5C
	4	13.0	7.5	20.0	H3747-ND	.65	11.83	38.70	DF1E-4EP-2.5C
	5	15.5	10.0	22.5	H3748-ND	.72	13.06	42.75	DF1E-5EP-2.5C
	6	18.0	12.5	25.0	H3749-ND	.76	13.75	45.00	DF1E-6EP-2.5C
	7	20.5	15.0	27.5	H3750-ND	.84	15.13	49.50	DF1E-7EP-2.5C
	8	23.0	17.5	30.0	H3751-ND	.87	15.81	51.75	DF1E-8EP-2.5C
	9	25.5	20.0	32.5	H3752-ND	.91	16.50	54.00	DF1E-9EP-2.5C
	10	28.0	22.5	35.0	H3753-ND	.95	17.19	56.25	DF1E-10EP-2.5C
Sockets — RoHS Compliant									
6	2	8.0	2.5	5.4	H3767-ND	.29	3.43	10.25	DF1E-2S-2.5C
	3	10.5	5.0	7.9	H3768-ND	.32	3.77	11.25	DF1E-3S-2.5C
	4	13.0	7.5	10.4	H3769-ND	.35	4.19	12.50	DF1E-4S-2.5C
	5	15.5	10.0	12.9	H3770-ND	.38	4.52	13.50	DF1E-5S-2.5C
	6	18.0	12.5	15.4	H3771-ND	.55	6.62	19.75	DF1E-6S-2.5C
	7	20.5	15.0	17.9	H3772-ND	.43	6.38	19.98	DF1E-7S-2.5C
	8	23.0	17.5	20.4	H3773-ND	.45	6.75	21.15	DF1E-8S-2.5C
	9	25.5	20.0	22.9	H3774-ND	.49	7.35	23.03	DF1E-9S-2.5C
	10	28.0	22.5	25.4	H3775-ND	.51	7.65	23.97	DF1E-10S-2.5C
	11	30.5	25.0	27.9	H3776-ND	.70	10.43	32.67	DF1E-11S-2.5C
	12	33.0	27.5	30.4	H3777-ND	.70	10.50	32.90	DF1E-12S-2.5C
	13	35.5	30.0	32.9	H3778-ND	.73	10.95	34.31	DF1E-13S-2.5C
	14	38.0	32.5	35.4	H3779-ND	.58	10.52	34.43	DF1E-14S-2.5C
	15	40.5	35.0	37.9	H3780-ND	.60	10.79	35.33	DF1E-15S-2.5C

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Retainers — RoHS Compliant								
7	2	8.0	2.5	H3855-ND	.53	6.37	19.00	DF1E-2RS/P-2.5
	3	10.5	5.0	H3856-ND	.41	6.15	19.27	DF1E-3RS/P-2.5
	4	13.0	7.5	H3857-ND	.43	6.38	19.98	DF1E-4RS/P-2.5
	5	15.5	10.0	H3858-ND	.46	6.90	21.62	DF1E-5RS/P-2.5
	6	18.0	12.5	H3859-ND	.50	7.50	23.50	DF1E-6RS/P-2.5
	7	20.5	15.0	H3860-ND	.52	7.80	24.44	DF1E-7RS/P-2.5
	8	23.0	17.5	H3861-ND	.55	8.18	25.62	DF1E-8RS/P-2.5
	9	25.5	20.0	H3862-ND	.57	8.55	26.79	DF1E-9RS/P-2.5
	10	28.0	22.5	H3863-ND	.60	9.00	28.20	DF1E-10RS/P-2.5

Contacts

AWG	Digi-Key Part No.	*Loose Piece* Pricing 1	25	100	Hirose Part No.	*Cut Tape** Pricing 1,000	3,000	*T & R†* Pricing 10,000	Hirose Part No.
Plug Contacts - Tin Plated (annealed copper wire) — RoHS Compliant									
20-22	H3851-ND	.26	2.83	7.98	DF1E-2022PC	49.50	46.20/M	22.00/M	DF1E-2022PCF
24-28	H3853-ND	.29	3.12	8.80	DF1E-2428PC	54.00	50.40/M	22.00/M	DF1E-2428PCF
30	H3854-ND	.24	2.63	7.43	DF1E-30PC	46.50	43.40/M	14.00/M	DF1E-30PCF
Socket Crimping Contacts - Tin Plated (annealed copper wire) — RoHS Compliant									
20-22	H3852-ND	.30	3.22	9.08	DF1E-2022SC	55.50	51.80/M	22.00/M	DF1E-2022SCF
20-22	H3828-ND	.23	2.38	5.89	DF1B-2022SC	36.80	33.35/M	20.00/M	DF1B-2022SCF
24-28	H3832-ND	.23	2.38	5.89	DF1B-2428SC	36.80	33.35/M	19.00/M	DF1B-2428SCF
30	H3848-ND	.23	2.38	5.89	DF1B-30SC	36.80	33.35/M	19.00/M	DF1B-30SCF

* For Cut Tape part number, change -ND to CT-ND.

† For Tape and Reel part number, change -ND to TR-ND.

Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Manual Crimping Tool			
20-22AWG, Pin	H9942-ND	1103.70	HT102-DF1BE-2022P
24-28AWG, Pin	H9943-ND	1103.70	HT102/DF1BE-2028P
30AWG, Pin.............................	H9944-ND	1164.80	HT102/DF1BE-30P
20-22AWG, DF1E Socket	H9941-ND	1063.40	HT102/DF1E-2022S
20-22AWG, DF1B Socket	H9936-ND	821.60	DF1B-TA2022SHC
24-28AWG, Socket	H9938-ND	834.60	DF1B-TA2428SHC
30AWG, Socket.........................	H9940-ND	834.60	DF1B-TA30SHC
Extraction Tool			
Crimp Pin and Socket..................	H9996-ND	3.02	DF-C-P0(B)

DF7 Series Connectors

3.96mm Pitch Miniature Connectors for Secondary Power Supplies (UL, C-UL and TÜV Approved Items)

Features:

• Positive locking feature; a complete locking function utilizing an internal system is used in these connectors. This prevents release due to external shock. • Usable at maximum current capacity. A maximum current carrying capacity of 10A is permitted when 16AWG wire is used.

Applications:

• Secondary power supply circuits of a wide variety of electronic, office, industrial, and consumer equipment.

Specifications:

• Rated Current: 22AWG: 4A, 20AWG: 5A, 18AWG: 7A and 16AWG: 10A • Rated Voltage: C-UL; AC600V TÜV; 7.92mm pitch - AC600V, 3.96mm pitch - AC300V • File No. C-UL: E52653 TUV: R9750437 • Contact Resistance: 10mΩ or less (initial) • Insulation Resistance: 1,000MΩ or greater • Single Unit Insertion and Withdrawal Life: 0.3 N minimum, 4.5 N maximum • Insertion/ Withdrawal Life: 20mΩ or less

Materials:

• Headers: Insulation, polyimide (glass strengthened product), natural (beige), UL94V-0 • Contacts: copper alloy with tin or gold plating • In-Line Plugs: Insulation, polyimide resin, natural (white), UL94V-0 • Retainers: Insulation, polyimide resin, black, UL94V-0 • Crimp Terminals: Contacts, copper alloy with tin or gold plating

Fig. 1

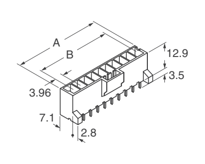

Fig. 2

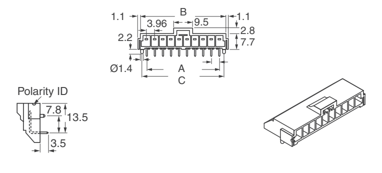

Fig. 3

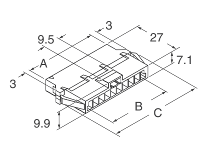

Fig. 4

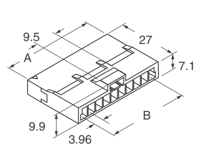

Fig. 5

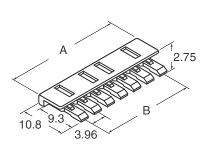

Fig.	No. of Contacts	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Pin Headers									
Vertical — Tin Plating									
1	1	—	—	—	H3472-ND	.52	6.20	18.50	DF7-1P-3.96DSA
	2	10.40	3.96	—	H2669-ND	.46	6.83	21.39	DF7-2P-3.96DSA
	3*	22.28	15.84	—	H2679-ND	.75	11.18	35.02	DF7-3P-7.92DSA
Vertical — Tin Plating — RoHS Compliant									
1	1	—	—	—	H10826-ND	.45	6.75	21.15	DF7-1P-3.96DSA(25)
	2	10.40	3.96	—	H10827-ND	.60	9.00	28.20	DF7-2P-3.96DSA(25)
	6	26.24	19.80	—	H10831-ND	.76	13.75	45.00	DF7-6P-3.96DSA(25)
	7	30.20	23.76	—	H10832-ND	.87	15.81	51.75	DF7-7P-3.96DSA(25)
	8	34.16	27.72	—	H10833-ND	1.06	19.25	63.00	DF7-8P-3.96DSA(25)
	9	38.12	31.68	—	H10834-ND	1.14	20.63	67.50	DF7-9P-3.96DSA(25)
	10	42.08	35.64	—	H10835-ND	1.25	22.69	74.25	DF7-10P-3.96DSA(25)
	3*	22.28	15.84	—	H10837-ND	.65	11.69	38.25	DF7-3P-7.92DSA(25)
Vertical — Tin Plating; without Guide Posts									
1	2	10.40	3.96	—	H3463-ND	.40	6.00	18.80	DF7C-2P-3.96DSA
Vertical — Tin Plating; without Guide Posts — RoHS Compliant									
1	2	10.40	3.96	—	H10838-ND	.60	9.00	28.20	DF7C-2P-3.96DSA(25)
	5	22.28	15.84	—	H10841-ND	.72	13.06	42.75	DF7C-5P-3.96DSA(25)
	6	26.24	19.80	—	H10842-ND	.76	13.75	45.00	DF7C-6P-3.96DSA(25)
	7	30.20	23.76	—	H10843-ND	.87	15.81	51.75	DF7C-7P-3.96DSA(25)
	8	34.16	27.72	—	H10844-ND	1.06	19.25	63.00	DF7C-8P-3.96DSA(25)
	9	38.12	31.68	—	H10845-ND	1.14	20.63	67.50	DF7C-9P-3.96DSA(25)
	10	42.08	35.64	—	H10846-ND	1.25	22.69	74.25	DF7C-10P-3.96DSA(25)
Vertical — Gold Plating									
1	6	26.24	19.80	—	H3458-ND	1.71	30.94	101.25	DF7-6P-3.96DSA(01)
	7	30.20	23.76	—	H3459-ND	1.84	33.21	108.68	DF7-7P-3.96DSA(01)
Vertical — Gold Plating — RoHS Compliant									
1	2	10.40	3.96	—	H10847-ND	.65	9.75	30.55	DF7-2P-3.96DSA(26)
	5	22.28	15.84	—	H10850-ND	.95	17.19	56.25	DF7-5P-3.96DSA(26)
	6	26.24	19.80	—	H10851-ND	1.10	19.94	65.25	DF7-6P-3.96DSA(26)

* DF7-2P-7.92DSA is DF7-3P-3.96DSA with No. 2 pin removed and the number of contacts are indicated as 2.
DF7-3P-7.92DSA is DF7-5P-3.96DSA with No. 2 and 4 pins removed and the number of contacts are indicated as 3.

† DF7-2P-7.92DS is DF7-3P-3.96DS with No. 2 pin removed and the number of contacts are indicated as 2.

(Continued)

HRS HIROSE ELECTRIC CO.,LTD.

DF7 Series Connectors - 3.96mm Pitch Miniature Connectors for Secondary Power Supplies *(Cont.)*

Fig.	No. of Contacts	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
1	7	30.20	23.76	—	H10852-ND	1.22	22.00	72.00	DF7-7P-3.96DSA(26)
	8	34.16	27.72	—	H10853-ND	1.44	26.13	85.50	DF7-8P-3.96DSA(26)
	9	38.12	31.68	—	H10854-ND	1.60	28.88	94.50	DF7-9P-3.96DSA(26)
	10	42.08	35.64	—	H10855-ND	1.71	30.94	101.25	DF7-10P-3.96DSA(26)
Right Angle — Tin Plating									
2	7	23.76	30.20	28.20	H2685-ND	.85	15.33	50.18	DF7-7P-3.96DS
	2†	7.92	14.36	12.36	H2689-ND	.66	9.90	31.02	DF7-2P-7.92DS
Right Angle — Tin Plating — RoHS Compliant									
2	2	3.96	10.40	8.40	H10856-ND	.65	9.75	30.55	DF7-2P-3.96DS(25)
	4	11.88	18.32	16.32	H10858-ND	.65	11.69	38.25	DF7-4P-3.96DS(25)
	7	23.76	30.20	28.20	H10861-ND	.99	17.88	58.50	DF7-7P-3.96DS(25)
	8	27.72	34.16	32.16	H10862-ND	1.22	22.00	72.00	DF7-8P-3.96DS(25)
	10	35.64	42.08	40.08	H10864-ND	1.44	26.13	85.50	DF7-10P-3.96DS(25)
	2†	7.92	14.36	12.36	H10865-ND	.61	11.00	36.00	DF7-2P-7.92DS(25)
Right Angle — Gold Plating									
2	5	15.84	22.28	20.28	H3448-ND	1.85	33.48	109.58	DF7-5P-3.96DS(01)
	6	19.80	26.24	24.24	H3449-ND	1.70	32.69	104.60	DF7-6P-3.96DS(01)
	7	23.76	30.20	28.20	H3450-ND	1.82	34.94	111.80	DF7-7P-3.96DS(01)
	8	27.72	34.16	32.16	H3451-ND	2.06	39.56	126.60	DF7-8P-3.96DS(01)
Right Angle — Gold Plating — RoHS Compliant									
2	4	11.88	18.32	16.32	H10868-ND	.84	15.13	49.50	DF7-4P-3.96DS(26)
	5	15.84	22.28	20.28	H10869-ND	.99	17.88	58.50	DF7-5P-3.96DS(26)
	6	19.80	26.24	24.24	H10870-ND	1.14	20.63	67.50	DF7-6P-3.96DS(26)
	7	23.76	30.20	28.20	H10871-ND	1.25	22.69	74.25	DF7-7P-3.96DS(26)
	8	27.72	34.16	32.16	H10872-ND	1.56	28.19	92.25	DF7-8P-3.96DS(26)
	9	31.68	38.12	36.12	H10873-ND	1.67	30.25	99.00	DF7-9P-3.96DS(26)
	10	35.64	42.08	40.08	H10874-ND	1.82	33.00	108.00	DF7-10P-3.96DS(26)
Plugs — RoHS Compliant									
In-Line — Panel Lock Type									
3	1	6.44	—	13.96	H3473-ND	.31	3.69	11.00	DF7-1EP-3.96C
	4	18.32	11.88	25.32	H2693-ND	.44	5.28	15.75	DF7-4EP-3.96C
	5	22.28	15.84	29.28	H2694-ND	.63	11.48	37.58	DF7-5EP-3.96C
	6	26.24	19.80	33.24	H2695-ND	.69	12.51	40.95	DF7-6EP-3.96C
	7	30.20	23.76	37.20	H2696-ND	.73	13.27	43.43	DF7-7EP-3.96C
	8	34.16	27.72	41.16	H2697-ND	.78	14.09	46.13	DF7-8EP-3.96C
	9	38.12	31.68	45.12	H2698-ND	.82	14.85	48.60	DF7-9EP-3.96C
	10	42.08	35.64	49.08	H2699-ND	.87	15.68	51.30	DF7-10EP-3.96C
In-Line									
4	1	6.44	—	—	H3474-ND	.31	3.69	11.00	DF7A-1EP-3.96C
	2	10.40	3.96	—	H2700-ND	.34	4.02	12.00	DF7A-2EP-3.96C
	3	14.36	7.92	—	H2701-ND	.39	4.61	13.75	DF7A-3EP-3.96C
	5	22.28	15.84	—	H2703-ND	.63	11.48	37.58	DF7A-5EP-3.96C
	6	26.24	19.80	—	H2704-ND	.69	12.51	40.95	DF7A -6EP-3.96C
	7	30.20	23.76	—	H2705-ND	.73	13.27	43.43	DF7A-7EP-3.96C
	9	38.12	31.68	—	H2707-ND	.82	14.85	48.60	DF7A-9EP-3.96C
	10	42.08	35.64	—	H2708-ND	.87	15.68	51.30	DF7A-10EP-3.96C
Retainers for both Sockets and In-Line Plugs — RoHS Compliant									
5	1	—	—	—	H3475-ND	.27	2.93	8.25	DF7-1RS/P-3.96
	4	17.92	11.88	—	H2720-ND	.30	3.60	10.75	DF7-4RS/P-3.96
	5	21.88	15.84	—	H2721-ND	.47	5.61	16.75	DF7-5RS/P-3.96
	6	25.84	19.80	—	H2722-ND	.50	6.03	18.00	DF7-6RS/P-3.96
	7	29.80	23.76	—	H2723-ND	.54	6.45	19.25	DF7-7RS/P-3.96
	8	33.76	27.72	—	H2724-ND	.42	6.30	19.74	DF7-8RS/P-3.96
	9	37.72	31.68	—	H2725-ND	.45	6.75	21.15	DF7-9RS/P-3.96
	10	41.68	35.64	—	H2726-ND	.48	7.13	22.33	DF7-10RS/P-3.96

* DF7-2P-7.92DSA is DF7-3P-3.96DSA with No. 2 pin removed and the number of contacts are indicated as 2.
DF7-3P-7.92DSA is DF7-5P-3.96DSA with No. 2 and 4 pins removed and the number of contacts are indicated as 3.

† DF7-2P-7.92DS is DF7-3P-3.96DS with No. 2 pin removed and the number of contacts are indicated as 2.

Crimp Terminals

Desc.	Digi-Key Part No.	*Loose Piece* Pricing 100	Hirose Part No.	*Cut Tape** Pricing 100	500	1,000	*Tape and Reel †* Qty.	Pricing	Hirose Part No.
Male — Tin Plating — RoHS Compliant									
20-22	H2734-ND	10.45	DF7-2022PC	10.50	37.80	58.80	—	—	DF7-2022PCF
Male — Gold Plating — RoHS Compliant									
16-18	H3476CT-ND	—	—	21.15	76.50	121.50	3,000	99.00/M	DF7-1618PCFA
20-22	H3477CT-ND	—	—	21.15	76.50	121.50	3,000	99.00/M	DF7-2022PCFA
Tools									
Manual Crimper for DF7 Series 16-18AWG	H9986-ND	1482.00/1							HT104/DF7-1618
Manual Crimper for DF7 Series 20-22AWG	H9987-ND	1482.00/1							HT104/DF7-2022

* For Cut Tape, add CT to the Digi-Key Part No. (H2734CT-ND)
† For Tape and Reel, add TR to the Digi-Key Part No. (H2734TR-ND)

Power Supply Connectors – PX Series

Features:

- Power supply connector for high-current withstands voltage of 2200V AC maximum and 10A/contact (60A/6 contacts) of rated current. • Housing design prevents incorrect insertion; opening section is designed to prevent reverse insertion and mating direction is easily checked. The opening section is keyed to prevent misalignment of plugs in parallel applications.
- Reliable contact structure; three point contact, gold plated contacts (standard) with high-level environmental resistance, contact spring guard structure, structure prevents retainer deformation.

Specifications:

- **Temperature Range:** -55°C ~ 105°C • **Voltage:** AC600V • **Current:** 10A • **Contact Resistance:** 10mΩ maximum measured at 100mA • **Insulation Resistance:** 1000MΩ minimum measured at DC 500V

Material:

- Contacts: Copper alloy, gold plating • Insulator: PBT resin (UL94V-0) • Metal Fixture: Copper alloy, solder plating

Fig. 1 - Receptacle

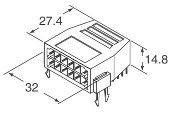

Fig. 2 - Plug

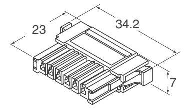

Note: Two plugs are needed for each receptacle.

Fig. 3 - Plug Holder Cover

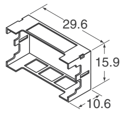

Note: Cover holds two plugs.

Fig.	No. of Circuits	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	8	H11376-ND◆	5.68	4.71	3.92	PX10-AD4WP(50)
	12	H10069-ND	5.42	4.49	3.74	PX10-AF6WP
	12	H11375-ND◆	6.21	5.14	4.28	PX10-AF6WP(50)
2	4	H10071-ND◆	1.98	1.65	1.38	PX50-AD4S
	6	H10072-ND◆	2.47	2.06	1.71	PX50-AF6S
3	6	H10074-ND◆	2.47	2.06	1.71	PX-6WS-CV
—	Female Terminal, 16-18AWG	H10073-ND	—	.50	.41	PX50-SC-131
—	Female Terminal, 16-18AWG	H11377-ND◆	.59	.49	.39	PX50-SC-131(50)

◆ ***RoHS Compliant***

DF5 Series Connectors

5mm Pitch Miniature Connectors for Secondary Power Supplies

Features:

- Capable of potting 9mm maximum • Outer lock system employs full lock mechanism

Applications:

- Business machines, industrial equipment, consumer appliances (hot water supply, washing machines, refrigerator), etc.

Specifications:

- Insulation Resistance: 500VDC, 1000MΩ minimum • Withstanding Voltage: 1 minute at rated value, 1500VAC (no flashover or insulation breakdown) • Contact Resistance: Measured at 100mA, 30mΩ maximum

Materials:

- Crimping Socket Insulator: Polyamide, white, UL 94V-0 • Crimping Contact for Socket Contact: Phosphor bronze, tin plating • Pin Header Insulator: Polyamide, beige, UL94V-0 • Pin Header Contact: Brass, tin leading

Fig. 1

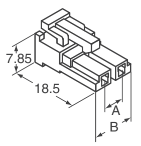

Fig. 2

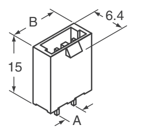

Fig. 3

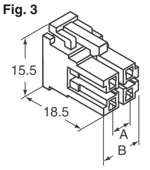

Fig. 4

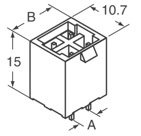

	No. of Rows	No. of Contacts	AWG #18	AWG #20	AWG #22		
Current Rating	Single Row	2 ~ 10	8A	6A	5A	Operating Temperature Range	-35°C ~ 85°C
	Double Row	4	8A	6A	5A	Operating Moisture Range	20% ~ 80%
		6	8A	6A	5A		
		8	7A	6A	5A		
		10	7A	6A	5A	Storage Temperature Range	-10°C ~ 60°C
		12	7A	6A	4A		
		14	7A	5A	4A	Storage Humidity Range	40% ~ 70%
		16	7A	5A	4A		
Voltage Rating	500VAC						

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Single Row Socket — RoHS Compliant								
1	2	5.0	10.5	H1900-ND	.42	5.03	15.00	DF5A-2S-5C
	3	10.0	15.5	H1901-ND	.45	6.75	21.15	DF5A-3S-5C
	4	15.0	20.5	H1902-ND	.50	7.50	23.50	DF5A-4S-5C
	5	20.0	25.5	H1903-ND	.50	7.50	23.50	DF5A-5S-5C
	6	25.0	30.5	H1904-ND	.55	8.25	25.85	DF5A-6S-5C

(Continued)

DF5 Series Connectors - 5mm Pitch Miniature Connectors for Secondary Power Supplies *(Cont.)*

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
1	7	30.0	35.5	H1905-ND	.70	10.50	32.90	DF5A-7S-5C
	8	35.0	40.5	H1906-ND	.57	10.31	33.75	DF5A-8S-5C
	9	40.0	45.5	H1907-ND	.57	10.31	33.75	DF5A-9S-5C
	10	45.0	50.5	H1908-ND	.61	11.00	36.00	DF5A-10S-5C
Single Row Pin Header								
2	4	15.0	22.5	H1911-ND	.75	11.18	35.02	DF5A-4P-5DSA
	5	20.0	27.5	H1912-ND	.85	12.75	39.95	DF5A-5P-5DSA
	10	45.0	52.5	H1917-ND	.99	17.88	58.50	DF5A-10P-5DSA
Single Row Pin Header — RoHS Compliant								
2	2	5.0	12.5	H10281-ND	.50	7.50	23.50	DF5A-2P-5DSA(05)
	3	10.0	17.5	H10282-ND	.70	10.50	32.90	DF5A-3P-5DSA(05)
	4	15.0	22.5	H10283-ND	.61	11.00	36.00	DF5A-4P-5DSA(05)
	5	20.0	27.5	H10284-ND	.72	13.06	42.75	DF5A-5P-5DSA(05)
	6	25.0	32.5	H10285-ND	.84	15.13	49.50	DF5A-6P-5DSA(05)
	7	30.0	37.5	H10286-ND	1.03	18.56	60.75	DF5A-7P-5DSA(05)
	8	35.0	42.5	H10287-ND	1.14	20.63	67.50	DF5A-8P-5DSA(05)
	9	40.0	47.5	H10288-ND	1.29	23.38	76.50	DF5A-9P-5DSA(05)
	10	45.0	52.5	H10289-ND	1.37	24.75	81.00	DF5A-10P-5DSA(05)
Double Row Socket — RoHS Compliant								
3	4	5.0	10.5	H1918-ND	.40	6.00	18.80	DF5A-4DS-5C
	6	10.0	15.5	H1919-ND	.45	6.75	21.15	DF5A-6DS-5C
	8	15.0	20.5	H1920-ND	.65	9.75	30.55	DF5A-8DS-5C
	10	20.0	25.5	H1921-ND	.70	10.50	32.90	DF5A-10DS-5C
	12	25.0	30.5	H1922-ND	.76	13.75	45.00	DF5A-12DS-5C
	14	30.0	35.5	H1923-ND	.80	14.44	47.25	DF5A-14DS-5C
	16	35.0	40.5	H1924-ND	.87	15.81	51.75	DF5A-16DS-5C
Double Row Pin Header								
4	6	10.0	17.5	H1926-ND	.61	11.00	36.00	DF5A-6DP-5DSA
	10	20.0	27.5	H1928-ND	.95	17.19	56.25	DF5A-10DP-5DSA
Double Row Pin Header — RoHS Compliant								
4	4	5.0	12.5	H10290-ND	.65	11.69	38.25	DF5A-4DP-5DSA(05)
	6	10.0	17.5	H10291-ND	.84	15.13	49.50	DF5A-6DP-5DSA(05)
	8	15.0	22.5	H10292-ND	1.14	20.63	67.50	DF5A-8DP-5DSA(05)
	10	20.0	27.5	H10293-ND	1.33	24.06	78.75	DF5A-10DP-5DSA(05)
	12	25.0	32.5	H10294-ND	1.71	30.94	101.25	DF5A-12DP-5DSA(05)
	14	30.0	37.5	H10295-ND	1.63	31.25	100.00	DF5A-14DP-5DSA(05)
	16	35.0	42.5	H10296-ND	1.79	34.38	110.00	DF5A-16DP-5DSA(05)

Socket Crimping Contacts (18-22AWG)

UL Style	Digi-Key Part No.	*Loose Piece* Pricing 1	25	100	Hirose Part No.	*Cut Tape** Pricing 100	500	*T & R †* Pricing 5,000	Hirose Part No.
Tin Plated (annealed copper wire) — RoHS Compliant									
UL1007	H1932-ND	.30	3.22	9.08	DF5-1822SC(51)	—	—	—	—
UL1015	H1933-ND	.30	3.22	9.08	DF5A-1822SC(51)	7.15	24.70	34.00/M	DF5A-1822SCF(51)

* For Cut Tape, add CT to the Digi-Key Part No. (H1933CT-ND)
† For Tape and Reel, add TR to the Digi-Key Part No. (H1933TR-ND)

Crimp Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Crimp Tool UL1007 18-22AWG	H9918-ND	1171.30	DF5-1822/CR-HT
Crimp Tool UL1015 18-22AWG	H9919-ND	1171.30	DF5A-1822/CR-HT

DF22 Series Connectors
7.92mm Pitch Connectors for High-Current Internal Power Supplies

No. of Con.	Rated Current 12AWG	14AWG	16AWG
2	20A	18A	15A
3	20A	18A	15A
4	18A	15A	13A
5	18A	15A	13A

Features: • 20A maximum current capacity. The connector can carry a maximum current of 20A with 12AWG wire. • Secure latch mechanism: the fully shrouded latch mechanism is resistant to accidental unlatching from shock and vibration.

Applications: Consumer-electronics and power supplies for electronic devices, business machines, and industrial machinery

Specifications: • Operating Temperature Range: -35°C ~ 85°C • Contact Resistance: 5mΩ or less (initial) • Insulation Resistance: 1,000MΩ or more

Material: • Crimp Socket: Insulation, polyimide resin, natural (white), UL94V-0 • Female Crimp Contact: Terminal, high conductivity copper alloy, tin (whiskers free) • Header Insulation: Polyimide resin (glass reinforced), natural (beige), UL94V-0 • Header Terminal: High-conductivity copper alloy, tin (whiskers free)

Fig. 1

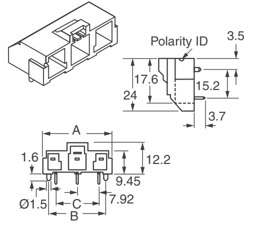

Fig. 2

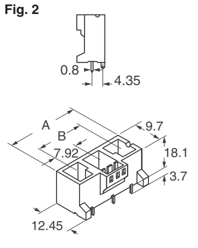

Fig. 3

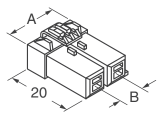

Polarizing Options

Style A — Standard Type

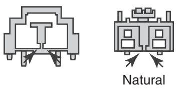

Style B — R Type, Black

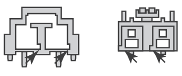

Style C — L Type, Red

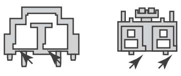

Fig.	No. of Contacts	Dimension (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Pin Headers									
Right Angle									
1A	3	27.72	22.92	15.84	H2777-ND	.97	17.60	57.60	DF22-3P-7.92DS
1B	3	27.72	22.92	15.84	H1616-ND	1.04	18.77	61.43	DF22R-3P-7.92DS
	5	43.56	38.76	31.68	H1622-ND	1.49	26.88	87.98	DF22R-5P-7.92DS
1C	5	43.56	38.76	31.68	H1610-ND	1.49	26.88	87.98	DF22L-5P-7.92DS
Right Angle — RoHS Compliant									
1A	2	19.80	15.00	7.92	H10702-ND	.90	16.36	53.55	DF22-2P-7.92DS(05)
	3	27.72	22.92	15.84	H10703-ND	1.28	23.24	76.05	DF22-3P-7.92DS(05)
	4	35.64	30.84	23.76	H10704-ND	1.55	27.98	91.58	DF22-4P-7.92DS(05)
	5	43.56	38.76	31.68	H10705-ND	1.85	33.55	109.80	DF22-5P-7.92DS(05)
1B	2	19.80	15.00	7.92	H10706-ND	1.09	19.80	64.80	DF22R-2P-7.92DS(05)
	3	27.72	22.92	15.84	H10707-ND	1.34	24.27	79.43	DF22R-3P-7.92DS(05)
	4	35.64	30.84	23.76	H10708-ND	1.61	29.15	95.40	DF22R-4P-7.92DS(05)
	5	43.56	38.76	31.68	H10709-ND	1.90	34.38	112.50	DF22R-5P-7.92DS(05)
1C	2	19.80	15.00	7.92	H10710-ND	1.09	19.80	64.80	DF22L-2P-7.92DS(05)
	3	27.72	22.92	15.84	H10711-ND	1.34	24.27	79.43	DF22L-3P-7.92DS(05)
	4	35.64	30.84	23.76	H10712-ND	1.61	29.15	95.40	DF22L-4P-7.92DS(05)
	5	43.56	38.76	31.68	H10713-ND	1.90	34.38	112.50	DF22L-5P-7.92DS(05)
Vertical									
2A	2	17.22	7.92	—	H2780-ND	.72	13.06	42.75	DF22-2P-7.92DSA
	5	40.98	31.68	—	H2783-ND	1.39	25.23	82.58	DF22-5P-7.92DSA
2B	3	25.14	15.84	—	H1617-ND	1.04	18.84	61.65	DF22R-3P-7.92DSA
	4	33.06	23.76	—	H1620-ND	1.27	22.89	74.93	DF22R-4P-7.92DSA
	5	40.98	31.68	—	H1623-ND	1.49	26.95	88.20	DF22R-5P-7.92DSA
Vertical — RoHS Compliant									
2A	2	17.22	7.92	—	H10714-ND	1.06	19.11	62.55	DF22-2P-7.92DSA(05)
	3	25.14	15.84	—	H10715-ND	1.52	27.43	89.78	DF22-3P-7.92DSA(05)
	4	33.06	23.76	—	H10716-ND	1.64	29.63	96.98	DF22-4P-7.92DSA(05)
	5	40.98	31.68	—	H10717-ND	1.88	34.10	111.60	DF22-5P-7.92DSA(05)
2B	2	17.22	7.92	—	H10718-ND	1.08	19.53	63.90	DF22R-2P-7.92DSA(05)
	3	25.14	15.84	—	H10719-ND	1.40	25.30	82.80	DF22R-3P-7.92DSA(05)
	4	33.06	23.76	—	H10720-ND	1.64	29.63	96.98	DF22R-4P-7.92DSA(05)
	5	40.98	31.68	—	H10721-ND	1.88	34.10	111.60	DF22R-5P-7.92DSA(05)
2C	2	17.22	7.92	—	H10722-ND	1.10	19.94	65.25	DF22L-2P-7.92DSA(05)
	3	25.14	15.84	—	H10723-ND	1.40	25.30	82.80	DF22L-3P-7.92DSA(05)
	4	33.06	23.76	—	H10724-ND	1.64	29.63	96.98	DF22L-4P-7.92DSA(05)
	5	40.98	31.68	—	H10725-ND	1.88	34.10	111.60	DF22L-5P-7.92DSA(05)
Crimp Socket Housing — RoHS Compliant									
3A	2	15.50	7.92	—	H2784-ND	.43	5.11	15.25	DF22-2S-7.92C(28)
	3	23.42	15.84	—	H2785-ND	.75	11.25	35.25	DF22-3S-7.92C(28)
	4	31.34	23.76	—	H2786-ND	.57	8.48	26.56	DF22-4S-7.92C(28)
	5	39.26	31.68	—	H2787-ND	.66	9.83	30.79	DF22-5S-7.92C(28)
3B	2	15.50	7.92	—	H1615-ND	.45	5.36	16.00	DF22R-2S-7.92C(28)
	3	23.42	15.84	—	H1618-ND	.54	8.10	25.38	DF22R-3S-7.92C(28)
	4	31.34	23.76	—	H1621-ND	.66	9.83	30.79	DF22R-4S-7.92C(28)
	5	39.26	31.68	—	H1624-ND	.57	10.31	33.75	DF22R-5S-7.92C(28)
3C	2	15.50	7.92	—	H1603-ND	.53	6.37	19.00	DF22L-2S-7.92C(28)
	3	23.42	15.84	—	H1606-ND	.54	8.10	25.38	DF22L-3S-7.92C(28)
	4	31.34	23.76	—	H1609-ND	.67	10.05	31.49	DF22L-4S-7.92C(28)
	5	39.26	31.68	—	H1612-ND	.58	10.45	34.20	DF22L-5S-7.92C(28)

Contacts and Crimp Tools

UL Style	AWG	Digi-Key Part No.	1	Cut Tape Pricing 10	50	100	Tape & Reel* Qty.	Pricing	Hirose Part No.
UL1430	14-16	H2788CT-ND◆	—	2.53	7.36	12.65	2,500	64.00/M	DF22-1416SCF
UL1015	14-16	H2789CT-ND◆	—	2.04	6.82	11.75	2,000	63.00/M	DF22A-1416SCF
UL1015	10-12	HR1173CT-ND◆	—	3.00	10.01	17.25	2,000	93.00/M	DF22A-1012SCF
Tools									
UL1430	14-16	HR1168-ND	1279.20	—	—	—	—	—	HT104/DF22-1416
UL1015	14-16	HR1169-ND	1279.20	—	—	—	—	—	HT104/DF22A-1416
UL1015	10-12	HR1167-ND	1251.90	—	—	—	—	—	HT103/DF22A-1012

◆ *RoHS Compliant* * For Tape and Reel part number, change CT-ND to TR-ND.

HRS HIROSE ELECTRIC CO.,LTD.

DF3, DF7, DF11, DF13, DF22 Interconnect Wire (housing available)

CONTACT SPECIFICATIONS: • Rated Current: **DF3:** *24AWG:* 3A, *26 AWG:* 2A, *28AWG:* 1A **DF11:** *24-26 AWG:* 2A, *28 AWG:* 1A • Operating Temperature: -30°C ~ 85°C • Rated Voltage: AC250V • Insulation Resistance: 1000 MΩ or more • Contact Resistance: 30 mΩ or less • Insertion / Withdrawals Force: Minimum 0.3 N (30gf), Maximum 4.4 N (450gf) • Material (crimp terminal for socket): Phosphor bronze with tin or gold plating

Safety Standards: UL: E52653 and CSA: LR95109

WIRE SPECIFICATIONS: • Stranded tinned copper conductor • Color coded PVC insulation • Flammability: Passes UL VW-1 flame test • Wire is ordered per EIA-359-A color specifications which allows for some variation in shade • Operating Temperature: -40°C ~ 90°C (CSA TR-64), -40°C ~ 80°C (UL AWM 1007)

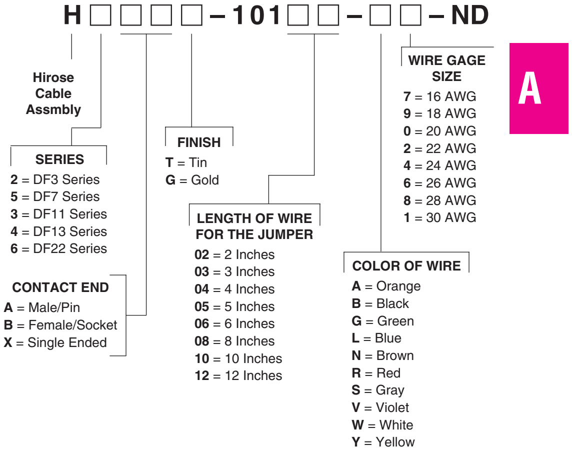

H □ □ □ □ – 1 0 1 □ □ – □ □ – ND

Hirose Cable Assmbly

SERIES
2 = DF3 Series
5 = DF7 Series
3 = DF11 Series
4 = DF13 Series
6 = DF22 Series

CONTACT END
A = Male/Pin
B = Female/Socket
X = Single Ended

FINISH
T = Tin
G = Gold

LENGTH OF WIRE FOR THE JUMPER
02 = 2 Inches
03 = 3 Inches
04 = 4 Inches
05 = 5 Inches
06 = 6 Inches
08 = 8 Inches
10 = 10 Inches
12 = 12 Inches

COLOR OF WIRE
A = Orange
B = Black
G = Green
L = Blue
N = Brown
R = Red
S = Gray
V = Violet
W = White
Y = Yellow

WIRE GAGE SIZE
7 = 16 AWG
9 = 18 AWG
0 = 20 AWG
2 = 22 AWG
4 = 24 AWG
6 = 26 AWG
8 = 28 AWG
1 = 30 AWG

Fig. 1

Socket to Socket

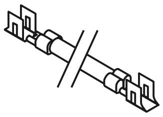

Fig. 2

Socket Single End

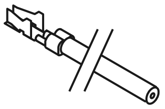

Pin to Pin

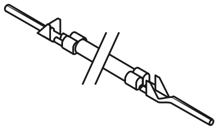

Available upon request

Pin to Socket

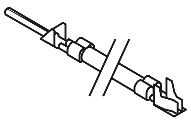

Available upon request

Pin Single End

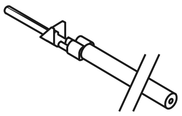

Available upon request

* For □ in Digi-Key Part No. choose letter which represents color of your choice: **A** = Orange **B** = Black **G** = Green **L** = Blue **N** = Brown **R** = Red **S** = Gray **V** = Violet **W** = White **Y** = Yellow

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each 10	100	250
DF3 - TIN PLATED CONTACTS					
24 AWG WIRE					
1 (Socket to Socket)	2	H2BBT-10102-□4-ND◆	.63	.47	.40
	3	H2BBT-10103-□4-ND◆	.64	.48	.41
	4	H2BBT-10104-□4-ND◆	.65	.48	.42
	5	H2BBT-10105-□4-ND◆	.66	.49	.42
	6	H2BBT-10106-□4-ND◆	.67	.50	.43
	8	H2BBT-10108-□4-ND◆	.69	.51	.44
	10	H2BBT-10110-□4-ND◆	.71	.52	.45
	12	H2BBT-10112-□4-ND◆	.73	.54	.46
2 (Socket Single End)	2	H2BXT-10102-□4-ND◆	.57	.42	.36
	3	H2BXT-10103-□4-ND◆	.58	.43	.37
	4	H2BXT-10104-□4-ND◆	.59	.44	.38
	5	H2BXT-10105-□4-ND◆	.60	.44	.38
	6	H2BXT-10106-□4-ND	.61	.45	.39
	8	H2BXT-10108-□4-ND◆	.63	.46	.40
	10	H2BXT-10110-□4-ND◆	.65	.48	.41
	12	H2BXT-10112-□4-ND◆	.66	.49	.42
26 AWG WIRE					
1 (Socket to Socket)	2	H2BBT-10102-□6-ND◆	.63	.47	.41
	3	H2BBT-10103-□6-ND◆	.65	.48	.41
	4	H2BBT-10104-□6-ND◆	.66	.48	.42
	5	H2BBT-10105-□6-ND◆	.67	.49	.43
	6	H2BBT-10106-□6-ND◆	.68	.50	.43
	8	H2BBT-10108-□6-ND◆	.70	.51	.45
	10	H2BBT-10110-□6-ND◆	.72	.53	.46
	12	H2BBT-10112-□6-ND◆	.74	.55	.47
2 (Socket Single End)	2	H2BXT-10102-□6-ND◆	.57	.42	.37
	3	H2BXT-10103-□6-ND◆	.58	.43	.37
	4	H2BXT-10104-□6-ND◆	.59	.44	.38
	5	H2BXT-10105-□6-ND◆	.60	.45	.39
	6	H2BXT-10106-□6-ND◆	.61	.45	.39
	8	H2BXT-10108-□6-ND◆	.63	.47	.41
	10	H2BXT-10110-□6-ND	.65	.48	.42
	12	H2BXT-10112-□6-ND◆	.67	.50	.43
28 AWG WIRE — RoHS Compliant					
1 (Socket to Socket)	2	H2BBT-10102-□8-ND	.63	.47	.41
	3	H2BBT-10103-□8-ND	.64	.48	.41
	4	H2BBT-10104-□8-ND	.65	.48	.42
	5	H2BBT-10105-□8-ND	.66	.49	.42
	6	H2BBT-10106-□8-ND	.67	.50	.43
	8	H2BBT-10108-□8-ND	.69	.51	.44
	10	H2BBT-10110-□8-ND	.71	.53	.45
	12	H2BBT-10112-□8-ND	.73	.54	.47
2 (Socket Single End)	2	H2BXT-10102-□8-ND	.57	.42	.37
	3	H2BXT-10103-□8-ND	.58	.43	.37
	4	H2BXT-10104-□8-ND	.59	.44	.38
	5	H2BXT-10105-□8-ND	.60	.44	.38
	6	H2BXT-10106-□8-ND	.61	.45	.39
	8	H2BXT-10108-□8-ND	.63	.47	.40
	10	H2BXT-10110-□8-ND	.65	.48	.41
	12	H2BXT-10112-□8-ND	.67	.49	.43
DF3 - 15μ GOLD PLATED CONTACTS					
24 AWG WIRE					
1 (Socket to Socket)	2	H2BBG-10102-□4-ND◆	.72	.53	.46
	3	H2BBG-10103-□4-ND◆	.73	.54	.47
	4	H2BBG-10104-□4-ND◆	.74	.55	.47
	5	H2BBG-10105-□4-ND◆	.75	.55	.48
	6	H2BBG-10106-□4-ND◆	.76	.56	.48
	8	H2BBG-10108-□4-ND◆	.78	.57	.50
	10	H2BBG-10110-□4-ND	.79	.59	.51
	12	H2BBG-10112-□4-ND◆	.81	.60	.52
2 (Socket Single End)	2	H2BXG-10102-□4-ND◆	.61	.45	.39
	3	H2BXG-10103-□4-ND◆	.62	.46	.40
	4	H2BXG-10104-□4-ND	.63	.47	.40
	5	H2BXG-10105-□4-ND◆	.64	.47	.41
	6	H2BXG-10106-□4-ND◆	.65	.48	.42
	8	H2BXG-10108-□4-ND◆	.67	.50	.43
	10	H2BXG-10110-□4-ND◆	.69	.51	.44
	12	H2BXG-10112-□4-ND◆	.71	.52	.45
26 AWG WIRE — RoHS Compliant					
1 (Socket to Socket)	2	H2BBG-10102-□6-ND	.72	.53	.46
	3	H2BBG-10103-□6-ND	.73	.54	.47
	4	H2BBG-10104-□6-ND	.74	.55	.47
	5	H2BBG-10105-□6-ND	.75	.56	.48
	6	H2BBG-10106-□6-ND	.76	.56	.49
	8	H2BBG-10108-□6-ND	.78	.58	.50
	10	H2BBG-10110-□6-ND	.80	.59	.51
	12	H2BBG-10112-□6-ND	.82	.61	.53
2 (Socket Single End)	2	H2BXG-10102-□6-ND	.61	.45	.39
	3	H2BXG-10103-□6-ND	.63	.46	.40
	4	H2BXG-10104-□6-ND	.64	.47	.41
	5	H2BXG-10105-□6-ND	.65	.48	.41
	6	H2BXG-10106-□6-ND	.66	.49	.42
	8	H2BXG-10108-□6-ND	.68	.50	.43
	10	H2BXG-10110-□6-ND	.70	.52	.45
	12	H2BXG-10112-□6-ND	.72	.53	.46
28 AWG WIRE — RoHS Compliant					
1 (Socket to Socket)	2	H2BBG-10102-□8-ND	.72	.53	.46
	3	H2BBG-10103-□8-ND	.73	.54	.47
	4	H2BBG-10104-□8-ND	.74	.55	.47
	5	H2BBG-10105-□8-ND	.75	.55	.48
	6	H2BBG-10106-□8-ND	.76	.56	.48
	8	H2BBG-10108-□8-ND	.78	.57	.50
	10	H2BBG-10110-□8-ND	.80	.59	.51
	12	H2BBG-10112-□8-ND	.82	.60	.52
2 (Socket Single End)	2	H2BXG-10102-□8-ND	.61	.45	.39
	3	H2BXG-10103-□8-ND	.62	.46	.40
	4	H2BXG-10104-□8-ND	.63	.47	.40
	5	H2BXG-10105-□8-ND	.64	.48	.41
	6	H2BXG-10106-□8-ND	.65	.48	.42
	8	H2BXG-10108-□8-ND	.67	.50	.43
	10	H2BXG-10110-□8-ND	.69	.51	.44
	12	H2BXG-10112-□8-ND	.71	.53	.45
DF11 - TIN PLATED CONTACTS					
24 AWG WIRE — RoHS Compliant					
1 (Socket to Socket)	2	H3BBT-10102-□4-ND	.64	.47	.41
	3	H3BBT-10103-□4-ND	.65	.48	.41
	4	H3BBT-10104-□4-ND	.66	.49	.42
	5	H3BBT-10105-□4-ND	.67	.49	.43
	6	H3BBT-10106-□4-ND	.68	.50	.43
	8	H3BBT-10108-□4-ND	.70	.51	.44
	10	H3BBT-10110-□4-ND	.71	.53	.46
	12	H3BBT-10112-□4-ND	.73	.54	.47
2 (Socket Single End)	2	H3BXT-10102-□4-ND	.57	.42	.37
	3	H3BXT-10103-□4-ND	.58	.43	.37
	4	H3BXT-10104-□4-ND	.59	.44	.38
	5	H3BXT-10105-□4-ND	.60	.44	.38
	6	H3BXT-10106-□4-ND	.61	.45	.39
	8	H3BXT-10108-□4-ND	.63	.47	.40
	10	H3BXT-10110-□4-ND	.65	.48	.41
	12	H3BXT-10112-□4-ND	.67	.49	.43
26 AWG WIRE					
1 (Socket to Socket)	2	H3BBT-10102-□6-ND◆	.64	.47	.41
	3	H3BBT-10103-□6-ND◆	.65	.48	.42
	4	H3BBT-10104-□6-ND◆	.66	.49	.42
	5	H3BBT-10105-□6-ND◆	.67	.50	.43
	6	H3BBT-10106-□6-ND	.68	.50	.44
	8	H3BBT-10108-□6-ND◆	.70	.52	.45
	10	H3BBT-10110-□6-ND◆	.72	.53	.46
	12	H3BBT-10112-□6-ND◆	.74	.55	.47

◆ *RoHS Compliant*

(Continued)

DF3, DF7, DF11, DF13, DF22 Interconnect Wire **(housing available)** *(Cont.)*

* For ☐ in Digi-Key Part No. choose letter which represents color of your choice: **A** = Orange **B** = Black **G** = Green **L** = Blue **N** = Brown **R** = Red **S** = Gray **V** = Violet **W** = White **Y** = Yellow

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each 10	100	250
26 AWG WIRE					
2 (Socket Single End)	2	H3BXT-10102-☐6-ND◆	.58	.43	.37
	3	H3BXT-10103-☐6-ND◆	.59	.43	.37
	4	H3BXT-10104-☐6-ND◆	.60	.44	.38
	5	H3BXT-10105-☐6-ND◆	.61	.45	.39
	6	H3BXT-10106-☐6-ND◆	.62	.46	.39
	8	H3BXT-10108-☐6-ND◆	.64	.47	.41
	10	H3BXT-10110-☐6-ND◆	.66	.49	.42
	12	H3BXT-10112-☐6-ND◆	.68	.50	.43
28 AWG WIRE — RoHS Compliant					
1 (Socket to Socket)	2	H3BBT-10102-☐8-ND	.64	.47	.41
	3	H3BBT-10103-☐8-ND	.65	.48	.41
	4	H3BBT-10104-☐8-ND	.66	.49	.42
	5	H3BBT-10105-☐8-ND	.67	.49	.43
	6	H3BBT-10106-☐8-ND	.68	.50	.43
	8	H3BBT-10108-☐8-ND	.70	.52	.45
	10	H3BBT-10110-☐8-ND	.72	.53	.46
	12	H3BBT-10112-☐8-ND	.74	.54	.47
2 (Socket Single End)	2	H3BXT-10102-☐8-ND	.57	.42	.37
	3	H3BXT-10103-☐8-ND	.58	.43	.37
	4	H3BXT-10104-☐8-ND	.59	.44	.38
	5	H3BXT-10105-☐8-ND	.60	.45	.39
	6	H3BXT-10106-☐8-ND	.61	.45	.39
	8	H3BXT-10108-☐8-ND	.63	.47	.40
	10	H3BXT-10110-☐8-ND	.65	.48	.42
	12	H3BXT-10112-☐8-ND	.67	.50	.43
DF11 - 15µ GOLD PLATED CONTACTS					
24 AWG WIRE					
1 (Socket to Socket)	2	H3BBG-10102-☐4-ND◆	.78	.57	.50
	3	H3BBG-10103-☐4-ND◆	.79	.58	.50
	4	H3BBG-10104-☐4-ND◆	.79	.59	.51
	5	H3BBG-10105-☐4-ND◆	.80	.59	.51
	6	H3BBG-10106-☐4-ND◆	.81	.60	.52
	8	H3BBG-10108-☐4-ND◆	.83	.61	.53
	10	H3BBG-10110-☐4-ND◆	.85	.63	.54
	12	H3BBG-10112-☐4-ND◆	.87	.64	.56
2 (Socket Single End)	2	H3BXG-10102-☐4-ND◆	.64	.47	.41
	3	H3BXG-10103-☐4-ND◆	.65	.48	.42
	4	H3BXG-10104-☐4-ND◆	.66	.49	.42
	5	H3BXG-10105-☐4-ND◆	.67	.50	.43
	6	H3BXG-10106-☐4-ND◆	.68	.50	.43
	8	H3BXG-10108-☐4-ND	.70	.52	.45
	10	H3BXG-10110-☐4-ND◆	.72	.53	.46
	12	H3BXG-10112-☐4-ND◆	.74	.54	.47
26 AWG WIRE					
1 (Socket to Socket)	2	H3BBG-10102-☐6-ND◆	.78	.57	.50
	3	H3BBG-10103-☐6-ND◆	.79	.58	.50
	4	H3BBG-10104-☐6-ND◆	.80	.59	.51
	5	H3BBG-10105-☐6-ND◆	.81	.60	.52
	6	H3BBG-10106-☐6-ND◆	.82	.60	.52
	8	H3BBG-10108-☐6-ND◆	.84	.62	.54
	10	H3BBG-10110-☐6-ND◆	.86	.64	.55
	12	H3BBG-10112-☐6-ND◆	.88	.65	.56

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each 10	100	250
2 (Socket Single End)	2	H3BXG-10102-☐6-ND◆	.64	.48	.41
	3	H3BXG-10103-☐6-ND	.65	.48	.42
	4	H3BXG-10104-☐6-ND◆	.66	.49	.42
	5	H3BXG-10105-☐6-ND◆	.67	.50	.43
	6	H3BXG-10106-☐6-ND◆	.68	.51	.44
	8	H3BXG-10108-☐6-ND	.71	.52	.45
	10	H3BXG-10110-☐6-ND	.73	.54	.46
	12	H3BXG-10112-☐6-ND◆	.75	.55	.48
28 AWG WIRE — RoHS Compliant					
1 (Socket to Socket)	2	H3BBG-10102-☐8-ND	.78	.57	.50
	3	H3BBG-10103-☐8-ND	.79	.58	.50
	4	H3BBG-10104-☐8-ND	.80	.59	.51
	5	H3BBG-10105-☐8-ND	.81	.60	.51
	6	H3BBG-10106-☐8-ND	.82	.60	.52
	8	H3BBG-10108-☐8-ND	.83	.62	.53
	10	H3BBG-10110-☐8-ND	.85	.63	.55
	12	H3BBG-10112-☐8-ND	.87	.65	.56
2 (Socket Single End)	2	H3BXG-10102-☐8-ND	.64	.48	.41
	3	H3BXG-10103-☐8-ND	.65	.48	.42
	4	H3BXG-10104-☐8-ND	.66	.49	.42
	5	H3BXG-10105-☐8-ND	.67	.50	.43
	6	H3BXG-10106-☐8-ND	.68	.50	.44
	8	H3BXG-10108-☐8-ND	.70	.52	.45
	10	H3BXG-10110-☐8-ND	.72	.53	.46
	12	H3BXG-10112-☐8-ND	.74	.55	.47
DF13 - TIN PLATED CONTACTS RoHS Compliant					
28 AWG WIRE					
1 (Socket to Socket)	2	H4BBT-10102-☐8-ND	.57	.42	.36
	3	H4BBT-10103-☐8-ND	.58	.43	.37
	4	H4BBT-10104-☐8-ND	.59	.43	.37
	5	H4BBT-10105-☐8-ND	.59	.44	.38
	6	H4BBT-10106-☐8-ND	.60	.45	.39
	8	H4BBT-10108-☐8-ND	.62	.46	.40
	10	H4BBT-10110-☐8-ND	.64	.48	.41
	12	H4BBT-10112-☐8-ND	.66	.49	.42
2 (Socket Single End)	2	H4BXT-10102-☐8-ND	.54	.40	.34
	3	H4BXT-10103-☐8-ND	.55	.40	.35
	4	H4BXT-10104-☐8-ND	.56	.41	.36
	5	H4BXT-10105-☐8-ND	.57	.42	.36
	6	H4BXT-10106-☐8-ND	.58	.43	.37
	8	H4BXT-10108-☐8-ND	.60	.44	.38
	10	H4BXT-10110-☐8-ND	.62	.45	.39
	12	H4BXT-10112-☐8-ND	.63	.47	.41
30 AWG WIRE					
1 (Socket to Socket)	2	H4BBT-10102-☐1-ND	.57	.42	.36
	3	H4BBT-10103-☐1-ND	.58	.43	.37
	4	H4BBT-10104-☐1-ND	.59	.44	.38
	5	H4BBT-10105-☐1-ND	.60	.44	.38
	6	H4BBT-10106-☐1-ND	.61	.45	.39
	8	H4BBT-10108-☐1-ND	.63	.47	.40
	10	H4BBT-10110-☐1-ND	.65	.48	.42
	12	H4BBT-10112-☐1-ND	.67	.50	.43
2 (Socket Single End)	2	H4BXT-10102-☐1-ND	.54	.40	.34
	3	H4BXT-10103-☐1-ND	.55	.41	.35
	4	H4BXT-10104-☐1-ND	.56	.41	.36
	5	H4BXT-10105-☐1-ND	.57	.42	.37
	6	H4BXT-10106-☐1-ND	.58	.43	.37
	8	H4BXT-10108-☐1-ND	.60	.45	.39
	10	H4BXT-10110-☐1-ND	.62	.46	.40
	12	H4BXT-10112-☐1-ND	.65	.48	.41

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each 10	100	250
DF13 - GOLD PLATED CONTACTS RoHS Compliant					
28 AWG WIRE					
1 (Socket to Socket)	2	H4BBG-10102-☐8-ND	.63	.46	.40
	3	H4BBG-10103-☐8-ND	.64	.47	.41
	4	H4BBG-10104-☐8-ND	.65	.48	.41
	5	H4BBG-10105-☐8-ND	.66	.49	.42
	6	H4BBG-10106-☐8-ND	.67	.49	.43
	8	H4BBG-10108-☐8-ND	.69	.51	.44
	10	H4BBG-10110-☐8-ND	.71	.52	.45
	12	H4BBG-10112-☐8-ND	.73	.54	.46
2 (Socket Single End)	2	H4BXG-10102-☐8-ND	.57	.42	.36
	3	H4BXG-10103-☐8-ND	.58	.43	.37
	4	H4BXG-10104-☐8-ND	.59	.43	.38
	5	H4BXG-10105-☐8-ND	.60	.44	.38
	6	H4BXG-10106-☐8-ND	.61	.45	.39
	8	H4BXG-10108-☐8-ND	.63	.46	.40
	10	H4BXG-10110-☐8-ND	.65	.48	.41
	12	H4BXG-10112-☐8-ND	.67	.49	.43
30 AWG WIRE					
1 (Socket to Socket)	2	H4BBG-10102-☐1-ND	.63	.47	.40
	3	H4BBG-10103-☐1-ND	.64	.47	.41
	4	H4BBG-10104-☐1-ND	.65	.48	.42
	5	H4BBG-10105-☐1-ND	.66	.49	.42
	6	H4BBG-10106-☐1-ND	.67	.50	.43
	8	H4BBG-10108-☐1-ND	.69	.51	.44
	10	H4BBG-10110-☐1-ND	.72	.53	.46
	12	H4BBG-10112-☐1-ND	.74	.54	.47
2 (Socket Single End)	2	H4BXG-10102-☐1-ND	.57	.42	.36
	3	H4BXG-10103-☐1-ND	.58	.43	.37
	4	H4BXG-10104-☐1-ND	.59	.44	.38
	5	H4BXG-10105-☐1-ND	.60	.45	.39
	6	H4BXG-10106-☐1-ND	.61	.45	.39
	8	H4BXG-10108-☐1-ND	.63	.47	.41
	10	H4BXG-10110-☐1-ND	.66	.48	.42
	12	H4BXG-10112-☐1-ND	.68	.50	.43
DF22 - TIN PLATED CONTACTS RoHS Compliant					
16 AWG WIRE					
1 (Socket to Socket)	2	H6BBT-10102-☐7-ND	.79	.58	.50
	3	H6BBT-10103-☐7-ND	.81	.60	.52
	4	H6BBT-10104-☐7-ND	.83	.61	.53
	5	H6BBT-10105-☐7-ND	.85	.63	.54
	6	H6BBT-10106-☐7-ND	.87	.64	.56
	8	H6BBT-10108-☐7-ND	.91	.67	.58
	10	H6BBT-10110-☐7-ND	.95	.70	.61
	12	H6BBT-10112-☐7-ND	.99	.73	.63
2 (Socket Single End)	2	H6BXT-10102-☐7-ND	.66	.49	.42
	3	H6BXT-10103-☐7-ND	.68	.50	.43
	4	H6BXT-10104-☐7-ND	.70	.52	.45
	5	H6BXT-10105-☐7-ND	.72	.53	.46
	6	H6BXT-10106-☐7-ND	.74	.55	.47
	8	H6BXT-10108-☐7-ND	.78	.57	.50
	10	H6BXT-10110-☐7-ND	.82	.60	.52
	12	H6BXT-10112-☐7-ND	.86	.63	.55

◆ ***RoHS Compliant***

JAE Technology to Inspire Innovation

The Leading Edge in LVDS and TMDS Technologies

Low **V**oltage **D**ifferential **S**ignaling (LVDS) — A transmission method for sending digital information. LVDS sends data over data high and data low lines rather than data and ground. The receiver detects the voltage difference between the two signals instead of relative to ground.

Transition **M**inimized **D**ifferential **S**ignaling (TMDS) — A transmission method for sending digital information from a personal computer, set-top box or other video source to a flat panel display. It is used in the VESA Plug and Display, DFP, DVI and HDMI interfaces. TMDS is based on low-voltage differential signaling and converts an 8-bit signal into a 10-bit transition minimized and DC-balanced signal (equal number of 0s and 1s) in order to reduce EMI generation and improve reliability.

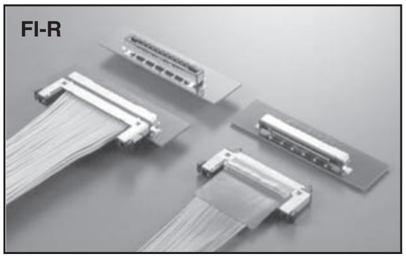
FI-R

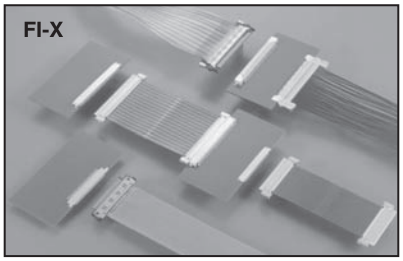
FI-X

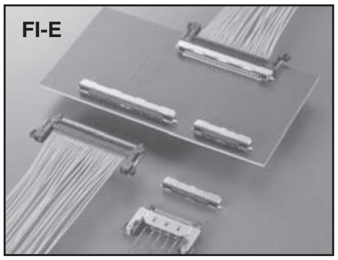
FI-E

Keep up with increasing transmission speeds and progressive LCD technologies with LVDS products from JAE. Designed for high-speed differential transmission, JAE's board-to-cable connector line-up offers industry leading performance and product availability. The low-profile plug/receptacle connector design also offers superior cable retention to ZIF or LIF connectors, and JAE offers one of the industry's only flex cable connectors with a mechanical lock.

FEATURES

- VESA Standard
- Superior EMI Metal Shielding
- SMT
- Secure latch locking
- Mating guides
- Polarization to prevent mismating

SPECIFICATIONS

- **49N** Lock Strength
- 50 Cycle Durability
- **100Ω ±10Ω** Differential Impedance
- 150ps max Intra/Inter pair skew
- 8dB max, 500MHz Attenuation
- -40° ~ 80°C Temperature Range
- 0.8A ~ 1.0A per contact Current Rating
- 200V Voltage Rating

APPLICABLE CABLES

- Flat Flex Cable (FFC)
- Flexible Printed Circuit (FPC)
- Fine-wire Coaxial Cable
- Discrete Wire

SERIES OPTIONS

FI-R Series

- 0.5mm pitch • 3.8mm height
- Mechanical lock

Digi-Key Part No.	JAE Part No.
670-1194-1-ND 670-1194-2-ND	FI-RC3-1A-1E-15000
670-1195-1-ND 670-1195-2-ND	FI-RC3-1B-1E-15000
670-1196-ND	FI-RE21HL
670-1197-ND	FI-RE21S-HF
670-1198-ND	FI-RE21S-VF
670-1199-ND	FI-RE31HL
670-1200-ND	FI-RE31S-HF
670-1201-ND	FI-RE31S-VF
670-1202-ND	FI-RE41HL
670-1203-ND	FI-RE41S-HF
670-1204-ND	FI-RE41S-VF
670-1205-ND	FI-RE51HL
670-1206-ND	FI-RE51S-HF
670-1207-ND	FI-RE51S-VF

FI-X Series

- 1.0mm pitch • 1.65mm height
- Friction lock

Digi-Key Part No.	JAE Part No.
670-1212-ND	FI-X30C2EL
670-1213-ND	FI-X30C-NPB
670-1214-ND	FI-X30H
670-1215-ND	FI-X30HL
670-1216-ND	FI-X30M-NPB
670-1217-ND	FI-X30MR-NPB
670-1219-ND	FI-X30SSL-HF
670-1222-1-ND 670-1222-2-ND	FI-XC3-1-15000

FI-E Series

- 1.0mm pitch • 3.2mm height
- Mechanical lock

Digi-Key Part No.	JAE Part No.
670-1192-ND	FI-E30HL
670-1193-ND	FI-E30S

500 MHz Eye Pattern

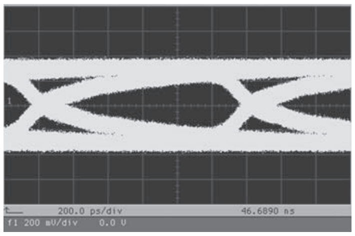

EMI Ground Bounce

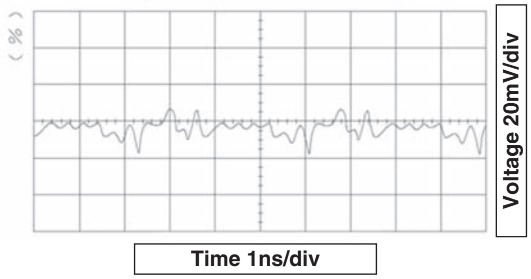

For more information visit www.jae-connector.com

FI-R Series 0.5mm Connectors

Specifications:

• Rated Current: 0.8A maximum per pin • Dielectric Withstanding Voltage: AC 500 Vr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 40mΩ maximum • Operating Temperature: -40°C ~ 80°C

Materials and Finishes:

• Contact: Copper Alloy/Contact area Gold, SMT Terminal area Tin plating • Insulator: Heat resistant plastic • Shell: Stainless steel

Fig. 1

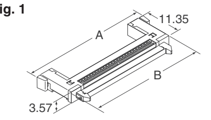

Fig. 2

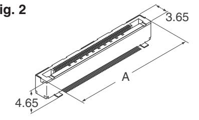

Fig. 3

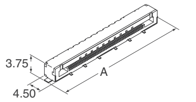

Fig.	No. of Positions	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	JAE Part No.
1	21	24.95	21.25	670-1196-ND	7.05	4.00	3.76	FI-RE21HL
	31	29.95	26.25	670-1199-ND	7.47	4.24	3.99	FI-RE31HL
	41	34.95	31.25	670-1202-ND	6.65	4.53	3.99	FI-RE41HL
	51	39.95	36.25	670-1205-ND	7.00	4.76	4.20	FI-RE51HL
2	21	20.35	—	670-1198-ND	12.90	7.53	6.88	FI-RE21S-VF
	31	25.35	—	670-1201-ND	5.46	3.19	2.92	FI-RE31S-VF
	41	30.35	—	670-1204-ND	5.94	3.47	3.17	FI-RE41S-VF
	51	35.35	—	670-1207-ND	7.11	4.03	3.80	FI-RE51S-VF
3	21	22.85	—	670-1197-ND	12.90	7.53	6.88	FI-RE21S-HF
	31	27.85	—	670-1200-ND	5.46	3.19	2.92	FI-RE31S-HF
	41	32.85	—	670-1203-ND	5.94	3.47	3.17	FI-RE41S-HF
	51	37.85	—	670-1206-1-ND†	5.38	3.05	2.87	FI-RE51S-HF
	51	37.85	—	670-1206-2-ND‡	3632.04/1,500			FI-RE51S-HF
Male, Crimp, Gold Plating 30 ~ 36 AWG				670-1194-1-ND†	.28	.15	.12	FI-RC3-1A-1E-15000
				670-1194-2-ND‡	1029.21/15,000			FI-RC3-1A-1E-15000
				670-1195-1-ND†	.28	.15	.12	FI-RC3-1B-1E-15000
				670-1195-2-ND‡	1029.21/15,000			FI-RC3-1B-1E-15000

† Cut Tape ‡ Tape and Reel

FI-X and FI-E Series 1mm Connectors

FI-X Series: **Specifications:** • Contact Spacing: 1mm • Applicable FPC: 0.14mm, Wire 30 ~ 40 AWG • Current Rating: 1 Amp per contact • Voltage Rating: 200AC/DC per contact • Dielectric Withstanding Voltage: AC 500 Vr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 40mΩ maximum • Operating Temperature: -40°C ~ 80°C **Materials and Finishes:** • Contact: Copper alloy: Contact portion (connector mating part)/Gold plating over Nickel • Terminal portion: SnPb plating over nickel • Insulator: Thermal plasticity resin (UL94V-0) • Shell: Copper Alloy/Tin plating **FI-E Series:** **Feature:** • Connector optimal for LVDS **Specifications:** • Contact Resistance: 40mΩ max. • Withstanding Voltage: AC 500 Vr.m.s per minute • Operating Temperature: -40°C ~ 80°C • Rated Current: AC, DC each 1A per 1 position • Rated Voltage: AC, DC each 200V per 1 position • Insulation Resistance: 100MΩ minimum

Fig. 1

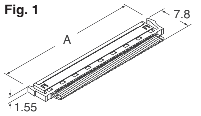

Fig. 2

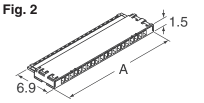

Fig. 3

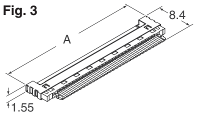

Fig. 4

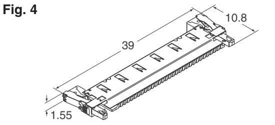

Fig. 5

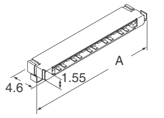

Fig. 6

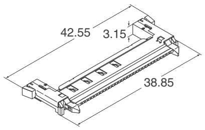

Fig. 7

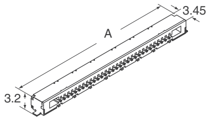

Fig.	No. of Positions	Dimension A (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	JAE Part No.
FI-X Series							
Coaxial Plug							
1	30	38.05	670-1213-ND	7.33	4.99	4.40	FI-X30C-NPB
Cable Plug							
2	30	33.3	670-1214-ND	3.43	1.96	1.67	FI-X30H
FPC Plug							
3	30	36.45	670-1216-ND	7.33	4.99	4.40	FI-X30M-NPB
			670-1217-ND	7.33	4.99	4.40	FI-X30MR-NPB
Cable Plug with Locking Levers							
4	30	—	670-1215-ND	2.56	1.46	1.25	FI-X30HL
			670-1212-ND	2.94	1.68	1.43	FI-X30C2EL
SMD Receptacle							
5	30	40.05	670-1219-ND	12.80	8.20	7.68	FI-X30SSL-HF
Crimp Pins							
Gold 30 ~ 36 AWG			670-1222-1-ND†	.23	.10	.08	FI-XC3-1-15000
			670-1222-2-ND‡	692.10/15,000			FI-XC3-1-15000
FI-E Series							
Cable Plug with Locking Lever							
6	30	—	670-1192-ND	6.28	4.27	3.77	FI-E30HL
SMD Receptacle							
7	30	38.2	670-1193-ND	8.33	5.67	5.00	FI-E30S
Tools							
Hand Tool for FI-X and FI-E Series			670-1187-ND	991.37	—	—	CT150-4C-FIX

† Cut Tape ‡ Tape and Reel

FI-J Series 0.4mm Connectors

Specifications: • Rated Current: AC, DC 0.3A per position • Rated Voltage: AC, DC 50V per position; • Dielectric Withstanding Voltage: AC 250 Vr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 40mΩ maximum • Operating Temperature Range: -40°C ~ 85°C • Applicable Cable: AWG #42~44

Materials and Finishes: • (*Receptacle*) Contact/Hold Down: Copper Alloy, Gold plating over Nickel on contact area • Insulator: Heat resistant plastic, UL94V-0 • Adsorption Insulator: Heat resistant plastic, UL94V-0 (*Plug*) Contact: Copper Alloy, Gold plating over Nickel on contact area • Insulator: Heat resistant plastic, UL94V-0 • Shell: Stainless steel, Gold plating over Nickel

Fig. 1 — Receptacle

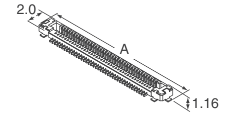

Fig. 2 — Plug

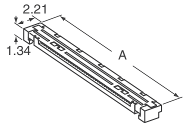

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Tape & Reel Pricing† 10,000	JAE Part No.
1	20	7.6	670-1505-ND	3.77	2.47	2.20	—	FI-J20S-VF15N
	25	9.6	670-1508-ND	3.85	2.52	2.24	—	FI-J25S-VF15N
	35	13.6	670-1511-ND	4.04	2.65	2.36	—	FI-J35S-VF15N
	40	15.6	670-1514-ND	4.21	2.76	2.45	—	FI-J40S-VF15N
2	20	13.7	670-1504-ND	2.02	1.24	1.06	—	FI-J20C5
	25	15.7	670-1507-ND	2.08	1.28	1.09	—	FI-J25C5
	35	19.7	670-1510-ND	2.18	1.34	1.14	—	FI-J35C5
	40	21.7	670-1513-ND	2.24	1.38	1.18	—	FI-J40C5
Covers for Plugs								
—	20	—	670-1503-1-NDΔ	.22	.14	.12	87.08/M	FI-J20C2-SH-D-10000
	25		670-1506-1-NDΔ	.22	.14	.12	87.55/M	FI-J25C2-SH-D-10000
	35		670-1509-1-NDΔ	.22	.14	.12	88.50/M	FI-J35C2-SH-D-10000
	40		670-1512-1-NDΔ	.22	.14	.12	88.96/M	FI-J40C2-SH-D-10000

† For Tape and Reel part number, change 1-ND to 2-ND. Δ Cut Tape

AA03 Series 0.4mm Connectors

Features: • Drop impact and vibration-resistant connectors • Stacking height 1.0mm, low profile connector

Specifications: • Rated Current: AC, DC 0.4 Amps per position • Rated Voltage: AC, DC 50V • Dielectric Withstanding Voltage: AC 250 Vr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 70mΩ maximum • Operating Temperature Range: -45°C ~ 85°C

Materials and Finishes: • Contact: Copper Alloy/Gold plating • Insulator: Heat resistant plastic/(UL94V-0, Black) • Hold-down: Plug: Cooper Alloy/Gold plating (0.1um minimum) Receptacle: Copper Alloy/Tin type plating

Fig. 1 — Plug

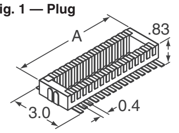

Fig. 2 — Receptacle

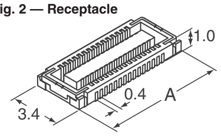

Fig.	No. of Positions	Dimension A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 25	Cut Tape Price Each 100	Tape & Reel Pricing† 6,000	JAE Part No.
1	20	5.3	670-1169-1-ND	1.00	.60	.54	432.98/M	AA03-P020VA2-R6000
	22	5.7	670-1170-1-ND	3.15	1.89	1.68	1365.00/M	AA03-P022VA2-R6000
	24	6.1	670-1171-1-ND	3.59	2.16	1.92	1554.14/M	AA03-P024VA2-R6000
	30	7.3	670-1172-1-ND	2.36	1.42	1.27	1024.16/M	AA03-P030VA2-R6000
	40	9.3	670-1173-1-ND	2.98	1.79	1.59	1290.27/M	AA03-P040VA2-R6000
	50	11.3	670-1174-1-ND	4.69	2.74	2.50	2031.20/M	AA03-P050VA2-R6000
	80	17.3	670-1175-1-ND	5.17	3.02	2.76	2241.79/M	AA03-P080VA2-R6000
2	20	6.3	670-1176-1-ND	1.00	.60	.54	432.98/M	AA03-S020VA1-R6000
	22	6.7	670-1177-1-ND	3.61	2.17	1.93	1565.97/M	AA03-S022VA1-R6000
	24	7.1	670-1178-1-ND	3.66	2.20	1.95	1584.03/M	AA03-S024VA1-R6000
	30	8.3	670-1179-1-ND	2.36	1.38	1.27	1024.16/M	AA03-S030VA1-R6000
	40	10.3	670-1180-1-ND	2.98	1.74	1.59	1290.55/M	AA03-S040VA1-R6000
	50	12.3	670-1181-1-ND	4.69	2.74	2.51	2031.59/M	AA03-S050VA1-R6000
	80	18.3	670-1182-1-ND	5.88	3.33	3.14	2546.47/M	AA03-S080VA1-R6000

† For Tape and Reel part number, change 1-ND to 2-ND.

WA6 Series 0.4mm Connectors

Features: • Compatible to JEDEC Standard, MO-260B and SO-004A • Enabling the industry's largest 214 contacts preventing connector distortion even though the compact pitch is a high density • Contacts for solder reinforcement are provided in each corner of the connector

Specifications: • Operating Temperature Range: -55°C ~ 85°C • Rated Current: AC, DC both 0.3A per pin • Contact Resistance: 70mΩ maximum • Dielectric Withstanding Voltage: AC 500 Vr.m.s per minute • Insulation Resistance: 100MΩ minimum

Materials and Finishes: • Contact: Copper alloy/Contact area: Gold, Terminal area: Gold flash • Insulator: Heat Resistant plastic

Fig. 1 — Receptacle

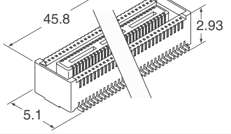

Fig. 2 — Plug

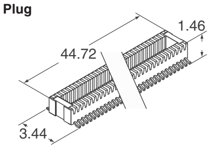

Fig.	No. of Positions	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 25	Cut Tape Price Each 100	Tape and Reel Pricing† 500	JAE Part No.
1	214	670-1161-1-ND	12.38	8.80	7.98	3657.50	WA6214VA1TR500
2		670-1162-1-ND	12.38	8.80	7.98	3657.50	WA6M214VA1TR500

† For Tape and Reel part number, change 1-ND to 2-ND.

WB3 Series

0.5mm Connectors

Feature:
Conforming to PCI Express Card Electrical Mechanical Specification

Specifications:
• Operating Temperature: -40°C ~ 85°C • Rated Current: 0.5A (per pin) • Contact Resistance: 50mΩ max. (initial), 60mΩ maximum (after various tests) • Dielectric Withstanding Voltage: 500 VACr.m.s per minute • Insulation Resistance: 100MΩ minimum

Materials and Finishes:
• Contact: Copper Alloy/Contact: 0.76um min. Gold plating over Nickel, Terminal: Gold flash plating over Nickel • Insulator: Thermoplastic resin UL 94V-0 black • Shell: Receptacle/Copper Alloy: Tin Plating, Plug/Stainless steel: Tin plating

Fig. 1 — Receptacle

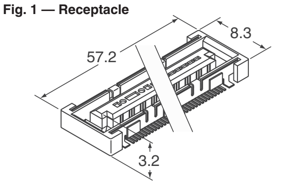

Fig. 2 — Plug

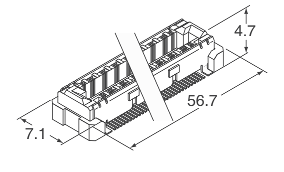

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
1	200	670-1164-ND	7.00	4.76	4.20	WB3F200VD1T
2		670-1166-ND	10.00	6.40	6.00	WB3M200VD1T

WM2 Series

0.5mm Connectors

Features:
• Compatible to SATA and USB 2.0 transmission • With shell compatible to EMI. The shells (ground portion) will connect first when mating.

Specifications:
• Contact Resistance: 50mΩ maximum • Dielectric Withstanding Voltage: AC250 per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.5A/per pin

Materials and Finishes:
Receptacle/Plug: • Contact: Copper Alloy • Insulator: Glass filled LCP • Stainless Steel Shell

Fig. 1 — Receptacle

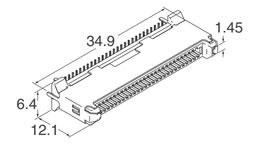

Fig. 2 —Plug

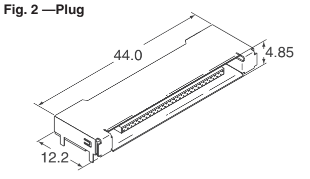

Fig.	No. of Positions	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing†	JAE Part No.
1	54	670-1167-1-ND	5.41	3.07	2.89	756.76/300	WM2F054WPAR300
2		670-1168-1-ND	6.73	4.58	4.05	2262.62/600	WM2M054JPAR600

† For Tape and Reel Part Number, change 1-ND to 2-ND.

KX14 and KX15 Series

0.8mm Connectors

Specifications:
• Contact Spacing: 0.8mm • Current Rating: 0.5 Amps • Dielectric Withstanding Voltage: 500 VACr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 70mΩ maximum • Operating Temperature: -40°C ~ 85°C

Materials and Finishes:
• Insulator: KX14: Glass-filled LCP/Black, KX15 Straight: Glass-filled PPS/Black, KX15 Right Angle: Glass-filled LCP/Black • Contact: Copper Alloy, Connecting Area: 0.1μm min. Gold Plating over Nickel, Terminal Area: Gold flash over Nickel or Tin-lead over Nickel • Hold Down: Copper Alloy/Tin-lead over Nickel • Hook Pin: Copper Alloy/Tin Plating • Hexagon Nut: Brass/Nickel Plating

Fig. 1

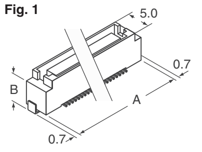

Receptacle

Fig. 2

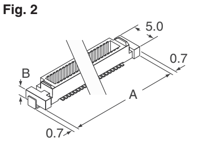

Plug

Fig. 3

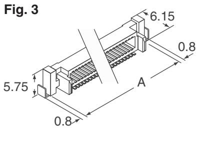

Plug — Right Angle

Fig.	No. of Positions	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
				KX14 Series				
1	20	16	1.95	670-1243-ND	2.73	1.56	1.33	KX14-20K2DE
			4.95	670-1244-ND	2.84	1.62	1.38	KX14-20K5DE
			7.95	670-1245-ND	2.84	1.62	1.38	KX14-20K8DE
			10.95	670-1241-ND	2.87	1.64	1.40	KX14-20K11DE
1	30	20	1.95	670-1247-ND	3.29	1.88	1.60	KX14-30K2DE
			4.95	670-1248-ND	3.36	1.92	1.64	KX14-30K5DE
			7.95	670-1249-ND	3.18	1.91	1.70	KX14-30K8DE
	40	24	1.95	670-1251-ND	3.51	2.11	1.88	KX14-40K2D-RE
			4.95	670-1253-ND	3.60	2.10	1.92	KX14-40K5D-RE
			7.95	670-1254-ND	3.96	2.31	2.12	KX14-40K8DE
			10.95	670-1250-ND	4.29	2.51	2.29	KX14-40K11DE
	50	28	1.95	670-1257-ND	4.23	2.47	2.26	KX14-50K2D-RE
			4.95	670-1259-ND	6.93	4.71	4.16	KX14-50K5D-RE
			7.95	670-1261-ND	4.74	2.77	2.53	KX14-50K8DE
			10.95	670-1256-ND	4.56	2.66	2.44	KX14-50K11DE
	60	32	1.95	670-1269-ND	5.43	3.17	2.90	KX14-60K2FR
			4.95	670-1270-ND	5.52	3.22	2.95	KX14-60K5DE
			10.95	670-1267-ND	5.28	3.08	2.82	KX14-60K11DE
			13.95	670-1268-ND	5.85	3.42	3.12	KX14-60K14DE
	70	36	1.95	670-1273-ND	6.21	3.52	3.32	KX14-70K2DE
			4.95	670-1274-ND	5.70	3.33	3.04	KX14-70K5DE
			7.95	670-1275-ND	5.70	3.33	3.04	KX14-70K8DE
			13.95	670-1272-ND	5.97	3.49	3.19	KX14-70K14DE
	80	40	1.95	670-1278-ND	6.99	3.97	3.73	KX14-80K2DE
			1.95	670-1283-ND	6.90	3.91	3.68	KX14-80N2DE
			4.95	670-1280-ND	7.08	4.02	3.78	KX14-80K5DE
			7.95	670-1281-ND	7.08	4.02	3.78	KX14-80K8DE
	100	48	1.95	670-1228-ND	6.45	4.39	3.87	KX14-100K2DE
			4.95	670-1229-ND	6.53	4.44	3.92	KX14-100K5DE
			4.95	670-1232-ND	6.53	4.44	3.92	KX14-100N5DE
			10.95	670-1226-ND	6.80	4.63	4.08	KX14-100K11DE
	120	56	1.95	670-1233-ND	7.65	5.21	4.59	KX14-120K2DE
			4.95	670-1235-ND	7.68	5.22	4.61	KX14-120K5DE
	140	64	1.95	670-1237-ND	8.83	6.01	5.30	KX14-140K2DE
			4.95	670-1238-ND	8.85	6.02	5.31	KX14-140K5DE
	160	72	4.95	670-1239-ND	10.15	6.50	6.09	KX14-160K5DE
			4.95	670-1240-ND	10.15	6.50	6.09	KX14-160N5DE
				KX15 Series				
2	20	16	1.95	670-1302-ND	2.73	1.56	1.33	KX15-20K2DE
			2.95	670-1303-ND	2.49	1.42	1.21	KX15-20K3DE
			3.95	670-1305-ND	2.84	1.62	1.38	KX15-20K4DE
	30	20	1.95	670-1308-ND	3.29	1.88	1.60	KX15-30K2DE
			3.95	670-1310-ND	3.18	1.91	1.70	KX15-30K4DE
	40	24	1.95	670-1313-ND	3.51	2.11	1.88	KX15-40K2D-RE
			2.95	670-1315-ND	3.96	2.31	2.12	KX15-40K3DE
			7.95	670-1318-ND	7.20	4.08	3.84	KX15-40K8DE
	50	28	1.95	670-1323-ND	4.65	2.72	2.48	KX15-50K2DE
			2.95	670-1325-ND	4.74	2.77	2.53	KX15-50K3DE
			3.95	670-1326-ND	7.44	4.22	3.97	KX15-50K4DE
			7.95	670-1328-ND	8.10	5.51	4.86	KX15-50K8DE
	60	32	1.95	670-1332-ND	5.43	3.17	2.90	KX15-60K2DE
			2.95	670-1333-ND	5.52	3.22	2.95	KX15-60K3DE
			3.95	670-1334-ND	5.52	3.22	2.95	KX15-60K4DE
	70	36	1.95	670-1336-ND	6.21	3.52	3.32	KX15-70K2DE
			2.95	670-1337-ND	6.30	3.57	3.36	KX15-70K3DE
			3.95	670-1338-ND	6.30	3.57	3.36	KX15-70K4DE
	80	40	1.95	670-1344-ND	6.99	3.97	3.73	KX15-80K2DE
			1.95	670-1352-ND	6.99	3.97	3.73	KX15-80N2DE
			2.95	670-1346-ND	7.08	4.02	3.78	KX15-80K3DE
			3.95	670-1348-ND	7.08	4.02	3.78	KX15-80K4DE
	100	48	1.95	670-1284-ND	7.10	4.83	4.26	KX15-100K2DE
			2.95	670-1285-ND	7.18	4.88	4.31	KX15-100K3DE
			3.95	670-1286-ND	7.18	4.88	4.31	KX15-100K4DE
			3.95	670-1287-ND	7.18	4.88	4.31	KX15-100N4DE
	120	56	1.95	670-1290-ND	7.25	4.93	4.35	KX15-120K2DE
			2.95	670-1291-ND	7.30	4.97	4.38	KX15-120K3DE
			3.95	670-1293-ND	7.30	4.97	4.38	KX15-120K4DE
	140	64	1.95	670-1294-ND	8.33	5.67	5.00	KX15-140K2DE
			2.95	670-1295-ND	8.35	5.68	5.01	KX15-140K3DE
			3.95	670-1296-ND	7.60	5.17	4.56	KX15-140K4DE
	160	72	2.95	670-1299-ND	9.50	6.46	5.70	KX15-160K3DE
3	20	16	—	670-1306-ND	5.67	3.31	3.03	KX15-20KLDLE
	30	20	—	670-1311-ND	3.24	1.95	1.73	KX15-30KLDLE
	40	24	—	670-1319-ND	4.11	2.40	2.20	KX15-40KLDLE
	50	28	—	670-1329-ND	4.92	2.87	2.63	KX15-50KLDLE
		36.5	—	670-1330-ND◊	4.92	2.87	2.63	KX15-50KLNL
	60	32	—	670-1335-ND	5.79	3.38	3.09	KX15-60KLDLE
	70	36	—	670-1339-ND	6.60	3.74	3.52	KX15-70KLDLE
		44.5	—	670-1340-ND◊	6.60	3.74	3.52	KX15-70KLNL
	80	40	—	670-1350-ND	9.30	5.27	4.96	KX15-80KLDLE
		48.5	—	670-1351-ND◊	7.47	4.24	3.99	KX15-80KLNL
		48.5	—	670-1354-ND◊	7.44	4.22	3.97	KX15-80NLNL
	140	72.5	—	670-1298-ND◊	10.45	6.69	6.27	KX15-140KLNL
	160	80.5	—	670-1301-ND◊	11.85	7.59	7.11	KX15-160NLNL

◊ Without hold down

Technology to Inspire Innovation
JAE

PM1 Series

0.8mm Connectors

RoHS COMPLIANT

Specifications: • Contact Resistance: 70mΩ maximum • Dielectric Withstanding Voltage: AC 250Vr.m.s per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.5A per contact • Insulation Resistance: 100MΩ minimum • Rated Voltage: AC125Vr.m.s
Materials and Finishes: • Base Insulator: LCP filled with heat-resistant plastic glass, UL 94V-0, Black; • Contact: Copper Alloy/Contact area: Gold plating; Terminal area: Tin plating over Nickel • Reinforcement: Copper Alloy, Tin type plating

Dim.in mm

Fig. 1

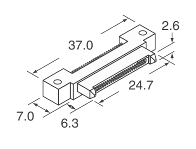

PCB Receptacle

Fig. 2

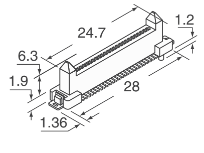

SMD Receptacle

Fig. 3

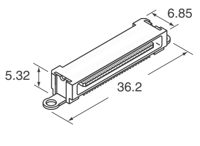

SMD Plug

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
1	50	670-1090-ND	3.66	2.14	1.96	PM1F050N1AE
		670-1091-ND	5.73	3.35	3.06	PM1F050NSA
2	50	670-1092-ND	6.45	4.39	3.87	PM1F050V1AE
		670-1093-ND	6.15	3.49	3.28	PM1F050VDA
3	50	670-1094-ND	3.87	2.26	2.07	PM1M050H1AE
		670-1095-1-ND†	6.46	4.40	3.88	PM1M050HDAR1000
		670-1095-2-ND‡	3436.72/1,000			PM1M050HDAR1000

† Cut Tape ‡ Tape and Reel

TX24 and TX25 Series

1.27mm Connectors

RoHS COMPLIANT

Specifications: • Rated Current: 1A • Dielectric Withstanding Voltage: 500VACr.m.s per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 40mΩ maximum • Operating Temperature: -40°C ~ 80°C • Applicable PCB Thickness: 1.6 mm **Materials and Finishes:** • Insulator: Glass-filled PBT (UL 94V-0, Black) • Hook Pin: Copper Alloy/Tin Plating • Contact: Copper Alloy; Connection area: Gold plating, 0.1 µm minimum over Nickel • Terminal area: Tin plating

Fig. 1

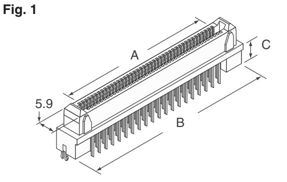

Fig. 2

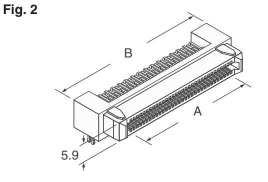

Fig. 3

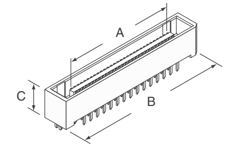

Fig. 4

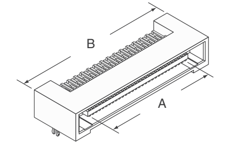

No. of Positions	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
TX24 Series								
Fig. 1 — Receptacle, Straight – Thru Hole								
30	17.78	31.7	2.8	670-1375-ND◊	1.64	.93	.72	TX24-30R-6ST-H1E
				670-1376-ND	1.60	.90	.70	TX24-30R-6ST-N1E
			6.8	670-1371-ND◊	1.64	.93	.72	TX24-30R-10ST-H1E
				670-1372-ND	1.56	.88	.69	TX24-30R-10ST-N1E
			8.8	670-1373-ND◊	1.64	.93	.72	TX24-30R-12ST-H1E
				670-1374-ND	1.56	.88	.69	TX24-30R-12ST-N1E
40	24.13	38.0	2.8	670-1384-ND◊	1.86	1.06	.91	TX24-40R-6ST-H1E
				670-1385-ND	1.75	1.00	.88	TX24-40R-6ST-N1E
			6.8	670-1380-ND◊	1.86	1.06	.91	TX24-40R-10ST-H1E
				670-1381-ND	1.75	1.00	.88	TX24-40R-10ST-N1E
			8.8	670-1382-ND◊	1.86	1.06	.91	TX24-40R-12ST-H1E
				670-1383-ND	1.75	1.00	.88	TX24-40R-12ST-N1E
50	30.48	44.4	2.8	670-1392-ND◊	2.28	1.30	1.11	TX24-50R-6ST-H1E
				670-1393-ND	2.17	1.24	1.06	TX24-50R-6ST-N1E
			6.8	670-1388-ND◊	2.28	1.30	1.11	TX24-50R-10ST-H1E
				670-1389-ND	2.17	1.24	1.06	TX24-50R-10ST-N1E
			8.8	670-1390-ND◊	2.28	1.30	1.11	TX24-50R-12ST-H1E
				670-1391-ND	2.17	1.24	1.06	TX24-50R-12ST-N1E
60	36.83	50.7	2.8	670-1401-ND	2.45	1.40	1.19	TX24-60R-6ST-E1E
				670-1403-ND	2.38	1.36	1.16	TX24-60R-6ST-N1E
				670-1404-ND	6.33	3.59	3.38	TX24-60R-6VF-D1E
				670-1402-ND◊	2.45	1.40	1.19	TX24-60R-6ST-H1E
			6.8	670-1396-ND◊	2.45	1.40	1.19	TX24-60R-10ST-H1E
				670-1397-ND	2.38	1.36	1.16	TX24-60R-10ST-N1E
			8.8	670-1398-ND	2.45	1.40	1.19	TX24-60R-12ST-E1E
				670-1399-ND◊	2.45	1.40	1.19	TX24-60R-12ST-H1E
				670-1400-ND	2.38	1.36	1.16	TX24-60R-12ST-N1E
80	49.53	63.4	2.8	670-1413-ND	3.08	1.76	1.50	TX24-80R-6ST-E1E
				670-1414-ND◊	3.08	1.76	1.50	TX24-80R-6ST-H1E
				670-1415-ND	2.98	1.70	1.45	TX24-80R-6ST-N1E
			6.8	670-1407-ND	2.87	1.64	1.40	TX24-80R-10ST-E1E
				670-1408-ND◊	3.08	1.76	1.50	TX24-80R-10ST-H1E
				670-1409-ND	2.98	1.70	1.45	TX24-80R-10ST-N1E
			8.8	670-1410-ND	3.08	1.76	1.50	TX24-80R-12ST-E1E
				670-1411-ND◊	3.08	1.76	1.50	TX24-80R-12ST-H1E
				670-1412-ND	2.98	1.70	1.45	TX24-80R-12ST-N1E
100	62.23	76.1	2.8	670-1362-ND	3.00	1.80	1.60	TX24-100R-6ST-E1E
				670-1363-ND◊	2.43	1.46	1.30	TX24-100R-6ST-H1E
				670-1364-ND	3.40	1.94	1.65	TX24-100R-6ST-N1E
			6.8	670-1356-ND	3.00	1.80	1.60	TX24-100R-10ST-E1E
				670-1357-ND◊	3.00	1.80	1.60	TX24-100R-10ST-H1E
				670-1358-ND	3.40	1.94	1.65	TX24-100R-10ST-N1E
			8.8	670-1359-ND	3.00	1.80	1.60	TX24-100R-12ST-E1E
				670-1360-ND◊	3.00	1.80	1.60	TX24-100R-12ST-H1E
				670-1361-ND	3.40	1.94	1.65	TX24-100R-12ST-N1E
120	74.93	88.8	2.8	670-1367-ND	3.00	1.80	1.60	TX24-120R-6ST-E1E
				670-1368-ND◊	3.33	2.00	1.78	TX24-120R-6ST-H1E
Fig. 2 — Receptacle, Right Angle – Thru Hole								
30	17.78	31.7	—	670-1377-ND◊	2.87	1.64	1.40	TX24-30R-LT1-H1E
				670-1378-ND◊	1.64	.93	.72	TX24-30R-LT-H1E
				670-1379-ND	1.60	.90	.70	TX24-30R-LT-N1E
40	24.13	38.0	—	670-1386-ND◊	1.86	1.06	.91	TX24-40R-LT-H1E
				670-1387-ND	2.45	1.40	1.23	TX24-40R-LT-N1E
50	30.48	44.4	—	670-1394-ND◊	2.28	1.30	1.11	TX24-50R-LT-H1E
				670-1395-ND	2.17	1.24	1.06	TX24-50R-LT-N1E
60	36.83	50.7	—	670-1405-ND◊	2.45	1.40	1.19	TX24-60R-LT-H1E
				670-1406-ND	2.38	1.36	1.16	TX24-60R-LT-N1E
80	49.53	63.4	—	670-1416-ND◊	3.08	1.76	1.50	TX24-80R-LT-H1E
				670-1417-ND	2.98	1.70	1.45	TX24-80R-LT-N1E
100	62.23	76.1	—	670-1365-ND◊	3.00	1.80	1.60	TX24-100R-LT-H1E
				670-1366-ND	3.40	1.94	1.65	TX24-100R-LT-N1E
120	74.93	88.8	—	670-1369-ND◊	3.87	2.26	2.07	TX24-120R-LT-H1E
140	90.17	104.04	—	670-1370-ND◊	6.33	3.59	3.38	TX24-140R -LT-H1E
TX25 Series								
Fig. 3 — Plug, Straight – Thru Hole								
30	17.78	31.7	9.2	670-1434-ND◊	1.64	.93	.72	TX25-30P-6ST-H1E
				670-1435-ND	1.56	.88	.69	TX25-30P-6ST-N1E
			11.2	670-1436-ND◊	1.64	.93	.72	TX25-30P-8ST-H1E
				670-1437-ND	1.60	.90	.70	TX25-30P-8ST-N1E
			15.2	670-1432-ND◊	1.64	.93	.72	TX25-30P-12ST-H1E
				670-1433-ND	1.56	.88	.69	TX25-30P-12ST-N1E
40	24.13	38.0	9.2	670-1442-ND	1.86	1.06	.91	TX25-40P-6ST-E1E
				670-1443-ND◊	1.86	1.06	.91	TX25-40P-6ST-H1E
				670-1444-ND	1.75	1.00	.88	TX25-40P-6ST-N1E
			11.2	670-1445-ND	1.86	1.06	.91	TX25-40P-8ST-E1E
				670-1446-ND◊	1.86	1.06	.91	TX25-40P-8ST-H1E
				670-1447-ND	1.75	1.00	.88	TX25-40P-8ST-N1E
			15.2	670-1440-ND◊	1.86	1.06	.91	TX25-40P-12ST-H1E
				670-1441-ND	1.75	1.00	.88	TX25-40P-12ST-N1E
50	30.48	44.4	9.2	670-1451-ND	2.28	1.30	1.11	TX25-50P-6ST-E1E
				670-1452-ND◊	2.28	1.30	1.11	TX25-50P-6ST-H1E
				670-1453-ND	2.17	1.24	1.06	TX25-50P-6ST-N1E
			11.2	670-1454-ND◊	2.28	1.30	1.11	TX25-50P-8ST-H1E
				670-1670-ND	2.17	1.24	1.06	TX25-50P-8ST-N1E
			15.2	670-1449-ND◊	2.28	1.30	1.11	TX25-50P-12ST-H1E
				670-1450-ND	2.17	1.24	1.06	TX25-50P-12ST-N1E
60	36.83	50.7	9.2	670-1459-ND	2.42	1.38	1.18	TX25-60P-6ST-E1E
				670-1460-ND◊	2.42	1.38	1.18	TX25-60P-6ST-H1E
				670-1461-ND	2.38	1.36	1.16	TX25-60P-6ST-N1E
			11.2	670-1462-ND	2.42	1.38	1.18	TX25-60P-8ST-E1E
				670-1463-ND◊	2.42	1.38	1.18	TX25-60P-8ST-H1E
				670-1464-ND	2.38	1.36	1.16	TX25-60P-8ST-N1E
			15.2	670-1457-ND◊	2.42	1.38	1.18	TX25-60P-12ST-H1E
				670-1458-ND	2.38	1.36	1.16	TX25-60P-12ST-N1E
80	49.53	63.4	9.2	670-1470-ND	3.08	1.76	1.50	TX25-80P-6ST-E1E
				670-1471-ND	2.98	1.70	1.45	TX25-80P-6ST-N1E
			11.2	670-1472-ND	3.08	1.76	1.50	TX25-80P-8ST-E1E
				670-1473-ND	2.98	1.70	1.45	TX25-80P-8ST-N1E
			15.2	670-1467-ND	3.08	1.76	1.50	TX25-80P-12ST-E1E
				670-1468-ND◊	3.08	1.76	1.50	TX25-80P-12ST-H1E
				670-1469-ND	2.98	1.70	1.45	TX25-80P-12ST-N1E
100	62.23	76.1	9.2	670-1420-ND	3.00	1.80	1.60	TX25-100P-6ST-E1E
				670-1421-ND◊	3.00	1.80	1.60	TX25-100P-6ST-H1E
				670-1422-ND	3.40	1.94	1.65	TX25-100P-6ST-N1E
			11.2	670-1423-ND	3.00	1.80	1.60	TX25-100P-8ST-E1E
				670-1424-ND◊	3.00	1.80	1.60	TX25-100P-8ST-H1E
				670-1425-ND	3.40	1.94	1.65	TX25-100P-8ST-N1E
			15.2	670-1418-ND◊	3.00	1.80	1.60	TX25-100P-12ST-H1E
				670-1419-ND	3.40	1.94	1.65	TX25-100P-12ST-N1E
120	74.93	88.8	9.2	670-1428-ND◊	3.87	2.26	2.07	TX25-120P-6ST-H1E
				670-1429-ND	3.69	2.16	1.97	TX25-120P-6ST-N1E
Fig. 4 — Plug, Right Angle – Thru Hole								
30	17.78	31.7	—	670-1438-ND◊	1.64	.93	.72	TX25-30P-LT-H1E
				670-1439-ND	1.60	.90	.70	TX25-30PLT-N1E
40	24.13	38.0	—	670-1448-ND	1.75	1.00	.88	TX25-40P-LT-N1E
50	30.48	44.4	—	670-1456-ND	2.17	1.24	1.06	TX25-50P-LT-N1E
60	36.83	50.7	—	670-1465-ND◊	2.45	1.40	1.19	TX25-60P-LT-H1E
				670-1466-ND	2.38	1.36	1.16	TX25-60P-LT-N1E
80	49.53	63.4	—	670-1474-ND◊	3.08	1.76	1.50	TX25-80P-LT-H1E
				670-1475-ND	2.98	1.70	1.45	TX25-80P-LT-N1E
100	62.23	76.1	—	670-1426-ND◊	3.00	1.80	1.60	TX25-100P-LT-H1E
				670-1427-ND	3.40	1.94	1.65	TX25-100P-LT-N1E
120	74.93	88.8	—	670-1430-ND◊	3.87	2.33	2.07	TX25-120P-LT-H1E
140	90.17	104.04	—	670-1431-ND	6.33	3.59	3.38	TX25-140P-LT-N1E

◊ With Hook Plug

samtec

.0197" (0.5mm) High Speed Sockets and Headers
QSH and QTH Series

Specifications: (QSH Series) • **Insulator Material:** Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** Gold over 50μ" (1.27μm) Nickel • **Current Rating:** 1.0A @ 30°C Temperature Rise (contact); 7.8A @ 30°C Temperature Rise (ground plane) • **Operating Temperature:** -55°C ~ 125°C • **Voltage Rating:** 125VAC mated with QTH and 5mm Stack Height • **Mates with:** QTH ***Specifications:*** (QTH Series) • **Insulator Material:** Liquid Crystal Polymer • **Terminal Material:** Phosphor Bronze • **Plating:** Gold over 50μ" (1.27μm) Nickel • **Current Rating:** 1.0A @ 30°C Temperature Rise (contact); 7.8A @ 30°C Temperature Rise (ground plane) • **Operating Temperature:** -55°C ~ 125°C • **Voltage Rating:** 125VAC mated with QSH and 5mm Stack Height • **Mates with:** QSH

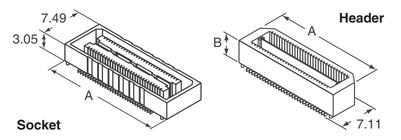

No. of Pos.	Dim. (mm)		Digi-Key Part No.	Price Each		
	A	B		1	10	100
Sockets						
60	41.27	—	SAM8180-ND	8.86	6.65	5.54
120	81.27		SAM8181-ND	9.71	7.39	6.33
180	121.27		SAM8182-ND	13.05	10.04	8.41
240	161.27		SAM8183-ND	15.47	11.96	10.20
300	201.27		SAM8184-ND	18.44	14.93	12.52
Headers						
60	40.00	4.27	SAM8185-ND	9.02	6.77	5.64
		7.26	SAM8186-ND	9.31	6.99	5.82
		10.27	SAM8187-ND	13.66	10.75	9.01
		15.25	SAM8188-ND	14.12	11.11	9.31
120	80.00	4.27	SAM8189-ND	9.89	7.53	6.45
		7.26	SAM8190-ND	10.19	7.76	6.65
		10.27	SAM8191-ND	15.62	12.07	10.30
		15.25	SAM8192-ND	16.13	12.47	10.63
180	120.00	4.27	SAM8193-ND	13.30	10.23	8.57
		7.26	SAM8194-ND	13.40	10.54	8.84
		10.27	SAM8195-ND	20.50	16.11	13.91
		15.26	SAM8196-ND	20.16	16.43	14.12
240	160.00	4.27	SAM8197-ND	15.75	12.18	10.39
		7.26	SAM8198-ND	16.24	12.55	10.71
		10.27	SAM8199-ND	23.64	19.27	16.55
		15.26	SAM8200-ND	24.44	19.92	17.11
300	200.00	4.27	SAM8201-ND	18.80	15.22	12.76
		7.26	SAM8202-ND	19.36	15.22	13.14
		10.27	SAM8203-ND	29.56	24.10	20.70
		15.26	SAM8204-ND	29.78	24.44	21.38

.025" (.635mm) Shielded Sockets and Headers
QFSS and QMSS Series

Specifications: (QFSS Series) • **Insulator Material:** Liquid Crystal Polymer • **Contact, Ground Plane and Shield Material:** Phosphor Bronze • **Plating:** Gold over 50μ" (1.27μm) Nickel (Tin on ground plane tails) • **Current Rating:** 3.4A @ 30°C Temperature Rise (contact) 7.8A @ 30°C Temperature Rise (ground plane) • **Voltage Rating:** 300VAC mated with QMSS • **Operating Temperature:** -55°C ~ 125°C • **Mates with:** QMSS

Specifications: (QMSS Series) • **Insulator Material:** Liquid Crystal Polymer • **Terminal, Ground Plane and Shield Material:** Phosphor Bronze • **Plating:** Gold over 50μ" (1.27μm) Nickel (Tin on ground plane tails) • **Current Rating:** 3.4A @ 30°C Temperature Rise (contact); 7.8A @ 30°C Temperature Rise (ground plane) • **Voltage Rating:** 300VAC mated with QFSS • **Operating Temperature:** -55°C ~ 125°C • **Mates with:** QFSS

Fig. 1

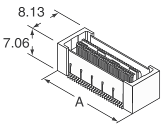

Fig. 2

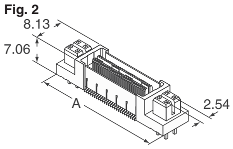

Fig. 3

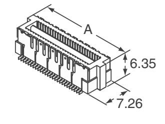

Fig. 4

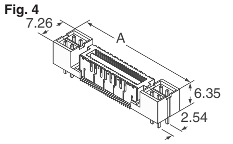

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100
Sockets						
Standard Ends						
1	52	22.36	SAM8166-ND	13.77	10.83	9.08
	104	43.70	SAM8168-ND	18.77	15.20	12.74
1	156	65.04	SAM8170-ND	25.02	20.40	17.52
	208	86.38	SAM8172-ND	30.19	24.77	21.68
4-PC Power Pin Ends						
2	52	34.21	SAM8167-ND	16.52	12.77	10.71
	104	55.55	SAM8169-ND	21.44	17.48	15.01
	156	76.89	SAM8171-ND	29.27	24.02	21.02
Headers						
Standard Ends						
3	52	20.83	SAM8173-ND	14.45	11.37	9.53
	104	42.17	SAM8175-ND	19.70	15.48	13.37
	156	63.51	SAM8177-ND	26.26	21.41	18.39
	208	84.84	SAM8179-ND	31.71	26.02	22.77
4-PC Power Pin Ends						
4	52	34.55	SAM8174-ND	17.34	13.40	11.23
	104	55.89	SAM8176-ND	22.52	18.36	15.77
	156	77.23	SAM8178-ND	30.73	25.22	22.07

.025" (.635mm) Power and RF Q2 Sockets and Headers
QFS and QMS Series

Specifications:
(QFS Series) • **Insulator Material:** Liquid Crystal Polymer • **Contact and Ground Plane Material:** Phosphor Bronze • **Plating:** Gold over 50μ" (1.27μm) Nickel (Tin on ground plane tail) • **Current Rating:** 1.5A @ 30°C Temperature Rise (contact); 7.2A @ 30°C Temperature Rise (ground plane) • **Voltage Rating:** 300VAC mated with QMS • **Operating Temperature:** -55°C ~ 125°C • **Mates with:** QMS-PC, QMS-RF

Specifications:
(QMS Series) • **Insulator Material:** Liquid Crystal Polymer • **Terminal and Ground Plane Material:** Phosphor Bronze • **Plating:** Gold over 50μ" (1.27μm) Nickel (Tin on ground plane tail) • **Current Rating:** 1.5A @ 30°C Temperature Rise (contact); 7.2A @ 30°C Temperature Rise (ground plane) • **Voltage Rating:** 300VAC mated with QFS • **Operating Temperature:** -55°C ~ 125°C • **Mates with:** QFS-PC, QFS-RF

Fig. 1

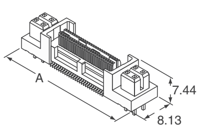

Fig. 2

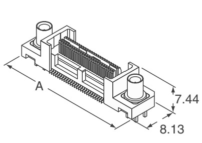

Fig. 3

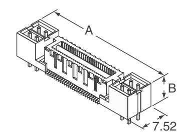

Fig. 4

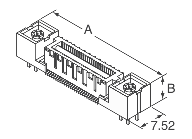

Fig.	No. of Pos.	Dim. (mm)		Digi-Key Part No.	Price Each		
		A	B		1	10	100
Sockets							
4-PC Power Pin Ends							
1	52	34.21	—	SAM8148-ND	13.51	10.63	8.91
	104	55.55		SAM8150-ND	18.42	14.91	12.50
	156	76.89		SAM8152-ND	24.56	20.02	17.20
RF Connector Ends							
2	52	34.21	—	SAM8149-ND	18.21	14.74	12.36
	104	55.55		SAM8151-ND	21.72	17.71	15.21
	156	76.89		SAM8153-ND	27.58	22.48	19.31
Headers							
4-PC Power Pin Ends							
3	52	34.55	5.38	SAM8154-ND	14.19	11.16	9.36
	104	55.89		SAM8158-ND	19.34	15.20	13.13
	156	77.23		SAM8162-ND	25.80	21.03	18.06
	52	34.55	6.35	SAM8156-ND	14.19	11.16	9.36
	104	55.89		SAM8160-ND	19.34	15.20	13.13
	156	77.23		SAM8164-ND	25.80	21.03	18.06
RF Connector Ends							
4	52	36.20	5.38	SAM8155-ND	22.98	18.73	16.09
	104	57.54		SAM8159-ND	27.58	22.48	19.31
	156	78.88		SAM8163-ND	32.88	26.98	23.61

.0315" (0.80mm) High Speed Sockets and Headers
QSE and QTE Series

Specifications: • **Insulator Material:** Liquid Crystal Polymer • **Terminal Material:** Phosphor Bronze • **Plating:** Gold over 50μ" (1.27μm) Nickel • **Current Rating:** Contacts: 2A @ 80°C, Ground Plane: 9.5A @ 80°C • **Operating Temperature Range:** -55°C ~ 125°C • **Voltage Rating:** (QSE) 225VAC mated with QSE and 5mm Stack Height • **Voltage Rating:** (QTE) 225VAC mated with QTE and 5mm Stack Height • QTE Series Mates with QSE • QSE Series Mates with QTE

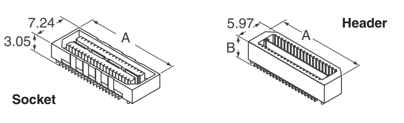

No. of Pos.	Dim. (mm)		Digi-Key Part No.	Price Each		
	A	B		1	10	100
Sockets						
40	21.27	—	SAM8123-ND	6.40	4.68	3.82
80	41.27		SAM8124-ND	8.45	6.34	5.28
120	61.27		SAM8125-ND	9.71	7.39	6.33
160	81.27		SAM8126-ND	11.59	8.91	7.47
200	101.27		SAM8127-ND	13.19	10.14	8.50
Headers						
40	20.00	4.27	SAM8128-ND	6.28	4.65	3.85
		7.26	SAM8129-ND	6.48	4.80	3.97
		10.27	SAM8130-ND	7.83	5.64	4.70
		15.24	SAM8131-ND	9.84	7.49	6.42
80	40.00	4.27	SAM8132-ND	8.59	6.45	5.37
		7.26	SAM8133-ND	8.86	6.65	5.54
		10.27	SAM8134-ND	10.28	7.83	6.71
		15.24	SAM8135-ND	13.44	10.57	8.86
120	60.00	4.27	SAM8136-ND	9.89	7.53	6.45
		7.26	SAM8137-ND	10.19	7.76	6.65
		10.27	SAM8138-ND	12.06	9.28	7.78
		15.24	SAM8139-ND	16.13	12.47	10.63
160	80.00	4.27	SAM8140-ND	11.81	9.09	7.62
		7.26	SAM8141-ND	12.17	9.36	7.85
		10.27	SAM8142-ND	14.43	11.35	9.52
		15.24	SAM8143-ND	18.82	15.24	12.77
200	100.00	4.27	SAM8144-ND	13.43	10.33	8.66
		7.26	SAM8145-ND	13.53	10.64	8.92
		10.27	SAM8146-ND	16.39	12.67	10.81
		15.24	SAM8147-ND	20.36	16.60	14.26

NEW! .0315" (0.08mm) Edge Rate Sockets and Headers
ERF8 and ERM8 Series

Specifications: • **Insulator Material:** Black LCP • **Terminal Material:** Phosphor Bronze • **Plating:** Gold or Tin over 50μ" (1.27μm) Nickel • **Operating Temperature Range:** -55°C ~ 125°C • **ERF8 Contact Material:** BeCu

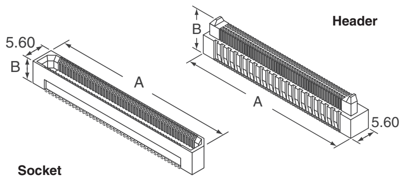

No. of Pos.	Dim. (mm)		Digi-Key Part No.	Price Each		
	A	B		1	10	100
Sockets						
20	14	5.10	SAM8618-ND	6.27	4.58	3.74
40	22	5.10	SAM8619-ND	7.15	5.30	4.38
60	30	5.10	SAM8620-ND	8.42	6.32	5.27
80	38	5.10	SAM8621-ND	9.36	7.02	5.85
100	46	5.10	SAM8622-ND	9.71	7.39	6.33
120	54	5.10	SAM8623-ND	10.76	8.19	7.02
140	62	5.10	SAM8624-ND	11.25	8.65	7.25
150	66	5.10	SAM8625-ND	11.52	8.86	7.43
Headers						
20	14	5.97	SAM8602-ND	6.01	4.39	3.59
40	22	5.97	SAM8603-ND	6.88	5.09	4.21
60	30	5.97	SAM8604-ND	8.09	6.07	5.06
80	38	5.97	SAM8605-ND	8.98	6.74	5.61
100	46	5.97	SAM8606-ND	9.72	7.09	6.08
120	54	5.97	SAM8607-ND	10.33	7.86	6.74
140	62	5.97	SAM8608-ND	11.04	8.40	7.20
150	66	5.97	SAM8609-ND	11.29	8.60	7.37
20	14	8.91	SAM8610-ND	6.27	4.58	3.74
40	22	8.91	SAM8611-ND	7.15	5.30	4.38
60	30	8.91	SAM8612-ND	8.42	6.32	5.27
80	38	8.91	SAM8613-ND	9.36	7.02	5.85
100	46	8.91	SAM8614-ND	9.71	7.39	6.33
120	54	8.91	SAM8615-ND	10.76	8.19	7.02
140	62	8.91	SAM8616-ND	11.25	8.65	7.25
150	66	8.91	SAM8617-ND	11.52	8.86	7.43

samtec

.0315” (0.80mm) Sockets CLE Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Beryllium Copper • **Plating:** Gold over 50µ” (1.27µm) Nickel • **Current Rating:** .75A @ 80°C ambient • **Operating Temperature:** -55°C ~ 125°C • **Contact Resistance:** 15 mΩ max. (initial) • **Mates with:** FTE Series

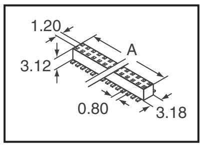

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
2	0.8	SAM1142-01-ND	7.88	7.05	5.81
4	1.6	SAM1142-02-ND	8.07	7.22	5.95
6	2.4	SAM1142-03-ND	8.26	7.39	6.09
8	3.2	SAM1142-04-ND	8.45	7.56	6.23
10	4.0	SAM1142-05-ND	8.64	7.73	6.37
12	4.8	SAM1142-06-ND	8.83	7.90	6.51
14	5.6	SAM1142-07-ND	9.02	8.07	6.65
16	6.4	SAM1142-08-ND	9.21	8.24	6.79
18	7.2	SAM1142-09-ND	9.40	8.41	6.93
20	8.0	SAM1142-10-ND	9.59	8.58	7.07
22	8.8	SAM1142-11-ND	9.78	8.75	7.21
24	9.6	SAM1142-12-ND	9.97	8.92	7.35

† More product available online. For pricing and availability, visit our website.

.0315” (0.80mm) Headers FTE Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Terminal Material:** Phosphor Bronze • **Plating:** Gold over 50µ” (1.27µm) Nickel • **Current Rating:** .75A @ 80°C ambient • **Operating Temperature:** -55°C ~ 125°C • **Mates with:** CLE Series

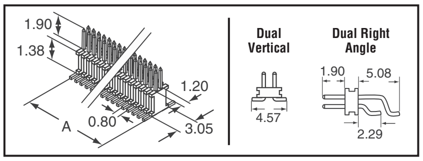

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
Dual Row, Vertical					
2	0.8	SAM1144-01-ND	8.42	7.54	6.21
4	1.6	SAM1144-02-ND	8.61	7.71	6.35
6	2.4	SAM1144-03-ND	8.80	7.88	6.49
8	3.2	SAM1144-04-ND	8.99	8.05	6.63
10	4.0	SAM1144-05-ND	9.18	8.22	6.77
12	4.8	SAM1144-06-ND	9.37	8.39	6.91
14	5.6	SAM1144-07-ND	9.56	8.56	7.05
16	6.4	SAM1144-08-ND	9.75	8.73	7.19
18	7.2	SAM1144-09-ND	9.94	8.90	7.33
20	8.0	SAM1144-10-ND	10.13	9.07	7.47
22	8.8	SAM1144-11-ND	10.32	9.24	7.61
24	9.6	SAM1144-12-ND	10.51	9.41	7.75
Dual Row, Right Angle					
2	0.8	SAM1143-01-ND	10.92	9.78	8.05
4	1.6	SAM1143-02-ND	11.17	10.00	8.24
6	2.4	SAM1143-03-ND	11.42	10.22	8.42
8	3.2	SAM1143-04-ND	11.67	10.44	8.60
10	4.0	SAM1143-05-ND	11.91	10.66	8.78
12	4.8	SAM1143-06-ND	12.16	10.88	8.96
14	5.6	SAM1143-07-ND	12.41	11.11	9.15
16	6.4	SAM1143-08-ND	12.65	11.33	9.33
18	7.2	SAM1143-09-ND	12.90	11.55	9.51
20	8.0	SAM1143-10-ND	13.15	11.77	9.69
22	8.8	SAM1143-11-ND	13.40	11.99	9.87
24	9.6	SAM1143-12-ND	13.64	12.21	10.06

† More product available online. For pricing and availability, visit our website.

.040” (1.00mm) Low Profile Sockets CLM Series

Specifications: • **Insulator Material:** Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** Pre-plated 10µ” (0.25µm) Gold on contact, Tin-Lead on Tail • **Current Rating:** 1.5A @ 80°C • **Operating Temperature:** -55°C ~ 125°C • **Contact Resistance:** 15mΩ max. • **Mates with:** FTMH Series

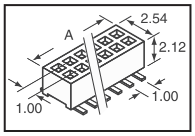

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
2	1.43	SAM1129-01-ND	4.86	4.36	3.59
4	2.43	SAM1129-02-ND	5.07	4.54	3.74
6	3.43	SAM1129-03-ND	5.28	4.73	3.90
8	4.43	SAM1129-04-ND	5.49	4.92	4.05
10	5.43	SAM1129-05-ND	5.70	5.10	4.20
12	6.43	SAM1129-06-ND	5.91	5.29	4.36
14	7.43	SAM1129-07-ND	6.12	5.48	4.51
16	8.43	SAM1129-08-ND	6.33	5.67	4.67
18	9.43	SAM1129-09-ND	6.54	5.85	4.82
20	10.43	SAM1129-10-ND	6.75	6.04	4.97
22	11.43	SAM1129-11-ND	6.95	6.23	5.13
24	12.43	SAM1129-12-ND	7.16	6.41	5.28

† More product available online. For pricing and availability, visit our website.

.040” (1.00mm) Micro Headers FTMH Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Terminal Material:** Phoshpor Bronze • **Current Rating:** 1.5A @ 80°C ambient • **Operating Temperature:** -55°C ~ 125°C • **Mates with:** CLM, MLE Series

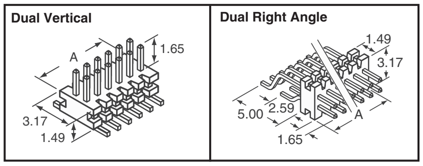

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
Dual Row, Vertical					
2	2	SAM1131-01-ND	5.67	5.08	4.18
4	4	SAM1131-02-ND	5.83	5.22	4.30
6	6	SAM1131-03-ND	5.99	5.37	4.42
8	8	SAM1131-04-ND	6.16	5.51	4.54
10	10	SAM1131-05-ND	6.32	5.66	4.66
12	12	SAM1131-06-ND	6.48	5.80	4.78
14	14	SAM1131-07-ND	6.64	5.95	4.90
16	16	SAM1131-08-ND	6.80	6.09	5.02
18	18	SAM1131-09-ND	6.96	6.23	5.14
20	20	SAM1131-10-ND	7.13	6.38	5.25
22	22	SAM1131-11-ND	7.29	6.52	5.37
24	24	SAM1131-12-ND	7.45	6.67	5.49
Dual Row, Right Angle					
2	2	SAM1130-01-ND	6.61	5.92	4.88
4	4	SAM1130-02-ND	6.81	6.10	5.02
6	6	SAM1130-03-ND	7.01	6.28	5.17
8	8	SAM1130-04-ND	7.21	6.46	5.32
10	10	SAM1130-05-ND	7.41	6.63	5.46
12	12	SAM1130-06-ND	7.61	6.81	5.61
14	14	SAM1130-07-ND	7.81	6.99	5.76
16	16	SAM1130-08-ND	8.01	7.17	5.91
18	18	SAM1130-09-ND	8.21	7.35	6.05
20	20	SAM1130-10-ND	8.41	7.53	6.20
22	22	SAM1130-11-ND	8.61	7.71	6.35
24	24	SAM1130-12-ND	8.81	7.88	6.49

† More product available online. For pricing and availability, visit our website.

.040” (1.00mm) Standard Sockets MLE Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Beryllium Copper • **Operating Temperature:** -55°C ~ 125°C • **Plating:** Gold over 10µ” (0.25µm) Nickel • **Mates with:** FTMH Series

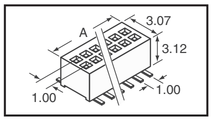

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
2	1.2	SAM1132-01-ND	7.10	6.35	5.23
4	2.2	SAM1132-02-ND	7.30	6.53	5.38
6	3.2	SAM1132-03-ND	7.50	6.71	5.53
8	4.2	SAM1132-04-ND	7.70	6.89	5.67
10	5.2	SAM1132-05-ND	7.89	7.07	5.82
12	6.2	SAM1132-06-ND	8.09	7.25	5.97
14	7.2	SAM1132-07-ND	8.29	7.43	6.12
16	8.2	SAM1132-08-ND	8.49	7.60	6.26
18	9.2	SAM1132-09-ND	8.69	7.78	6.41
20	10.2	SAM1132-10-ND	8.89	7.96	6.56
22	11.2	SAM1132-11-ND	9.09	8.14	6.70
24	12.2	SAM1132-12-ND	9.29	8.32	6.85

† More product available online. For pricing and availability, visit our website.

.050” (1.27mm) Quad Row Sockets and Headers SOLC and TOLC Series

Specifications: (SOLC Series) • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** Gold over 50µ” (1.27µm) Nickel • **Current Rating:** 2.5A @ 80°C ambient • **Operating Temperature Range:** -55°C ~ 125°C • **Contact Resistance:** 10mΩ max. • **Insertion Depth:** .066” ~ .142” (1.68mm ~ 3.61mm) with .015” (0.38mm) wipe • **Insertion Force:** 2.0oz (0.56N) average (single contact only) • **Normal Force:** 75 grams (0.74N) average • **Withdrawal Force:** 1.5oz (0.42N) average (single contact only) • **Max Cycles:** 100+ • **Mates with:** TOLC

Specifications: (TOLC Series) • **Insulator Material:** Black Liquid Crystal Polymer • **Terminal Material:** Phosphor Bronze • **Plating:** Gold over 50µ” (1.27µm) Nickel • **Current Rating:** 2.5A @ 80°C ambient • **Operating Temperature Range:** -55°C ~ 125°C • **Mates with:** SOLC Series

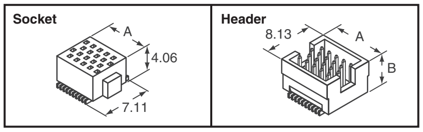

No. of Pos.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100
Sockets						
20	8.90	—	SAM8490-ND	9.89	7.21	6.18
40	15.25		SAM8491-ND	10.24	7.79	6.68
60	21.60		SAM8492-ND	10.99	7.53	6.45
80	27.95		SAM8493-ND	11.27	8.58	7.35
100	34.30		SAM8494-ND	13.46	10.59	8.88
120	40.65	—	SAM8495-ND	16.17	12.50	10.66
140	47.00		SAM8496-ND	17.14	13.25	11.11
160	53.35		SAM8497-ND	18.69	15.13	12.69
180	59.70		SAM8498-ND	20.04	16.34	14.03
200	66.05		SAM8499-ND	22.26	18.15	15.59
Headers						
20	8.89	5.59	SAM8500-ND	8.35	6.27	5.22
		7.24	SAM8501-ND	10.03	7.32	6.27
		11.23	SAM8502-ND	10.17	7.74	6.63
40	15.24	5.59	SAM8503-ND	9.02	6.77	5.64
		7.24	SAM8504-ND	10.37	7.90	6.77
		11.23	SAM8505-ND	10.99	8.37	7.17
60	21.59	5.59	SAM8506-ND	9.67	7.06	6.05
		7.24	SAM8507-ND	11.13	8.47	7.26
		11.23	SAM8508-ND	10.60	8.07	6.92
80	27.94	5.59	SAM8509-ND	9.94	7.25	6.21
		7.24	SAM8510-ND	11.41	8.68	7.44
		11.23	SAM8511-ND	11.84	9.10	7.63
100	34.29	5.59	SAM8512-ND	11.63	8.95	7.50
		7.24	SAM8513-ND	13.64	10.73	8.99
		11.23	SAM8514-ND	14.48	11.39	9.55
120	40.64	5.59	SAM8515-ND	13.64	10.73	8.99
		7.24	SAM8516-ND	16.37	12.65	10.79
		11.23	SAM8517-ND	17.36	13.42	11.25
140	46.99	5.59	SAM8518-ND	14.48	11.39	9.55
		7.24	SAM8519-ND	17.38	13.43	11.26
		11.23	SAM8520-ND	17.58	14.23	11.93
160	53.34	5.59	SAM8521-ND	16.52	12.77	10.71
		7.24	SAM8522-ND	18.94	14.89	12.86
		11.23	SAM8523-ND	20.08	15.78	13.63
180	59.69	5.59	SAM8524-ND	17.75	14.37	12.05
		7.24	SAM8525-ND	20.30	16.55	14.21
		11.23	SAM8526-ND	21.52	17.54	15.07
200	66.04	5.59	SAM8527-ND	19.72	15.50	13.39
		7.24	SAM8528-ND	22.56	18.39	15.80
		11.23	SAM8529-ND	23.90	19.48	16.73

.050” (1.27mm) Low Profile Sockets CLP Series

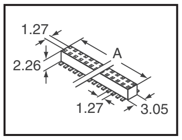

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Current Rating:** 1.75A @ 80°C ambient • **Operating Temperature:** -55°C ~ 125°C • **Contact Resistance:** 10mΩ max. • **Mates with:** FTSH, FTS Series

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
10µ” (0.25µm) Gold Plating					
4	2.97	SAM1154-02-ND	4.65	4.17	3.43
6	4.24	SAM1154-03-ND	4.84	4.33	3.57
8	5.51	SAM1154-04-ND	5.02	4.49	3.70
10	6.78	SAM1154-05-ND	5.20	4.65	3.83
12	8.05	SAM1154-06-ND	5.38	4.82	3.97
14	9.32	SAM1154-07-ND	5.56	4.98	4.10
16	10.59	SAM1154-08-ND	5.74	5.14	4.23
18	11.86	SAM1154-09-ND	5.92	5.30	4.37
20	13.13	SAM1154-10-ND	6.10	5.46	4.50
22	14.40	SAM1154-11-ND	6.28	5.62	4.63
24	15.67	SAM1154-12-ND	6.46	5.78	4.76
26	16.94	SAM1154-13-ND	6.64	5.95	4.90
10µ” (0.25µm) Gold on Contact, Matte Tin on Tail					
4	2.97	SAM1155-02-ND	4.29	3.85	3.17
6	4.24	SAM1155-03-ND	4.47	4.01	3.30
8	5.51	SAM1155-04-ND	4.65	4.17	3.43
10	6.78	SAM1155-05-ND	4.84	4.33	3.57
12	8.05	SAM1155-06-ND	5.02	4.49	3.70
14	9.32	SAM1155-07-ND	5.20	4.65	3.83
16	10.59	SAM1155-08-ND	5.38	4.82	3.97
18	11.86	SAM1155-09-ND	5.56	4.98	4.10
20	13.13	SAM1155-10-ND	5.74	5.14	4.23
22	14.40	SAM1155-11-ND	5.92	5.30	4.37
24	15.67	SAM1155-12-ND	6.10	5.46	4.50
26	16.94	SAM1155-13-ND	6.28	5.62	4.63
Gold Flash on Contact, Matte Tin on Tail					
4	2.97	SAM1153-02-ND	3.92	3.52	2.90
6	4.24	SAM1153-03-ND	4.08	3.66	3.01
8	5.51	SAM1153-04-ND	4.25	3.80	3.13
10	6.78	SAM1153-05-ND	4.41	3.95	3.25
12	8.05	SAM1153-06-ND	4.57	4.09	3.37
14	9.32	SAM1153-07-ND	4.73	4.24	3.49
16	10.59	SAM1153-08-ND	4.89	4.38	3.61
18	11.86	SAM1153-09-ND	5.05	4.53	3.73
20	13.13	SAM1153-10-ND	5.22	4.67	3.85
22	14.40	SAM1153-11-ND	5.38	4.82	3.97
24	15.67	SAM1153-12-ND	5.54	4.96	4.09
26	16.94	SAM1153-13-ND	5.70	5.10	4.20

† More product available online. For pricing and availability, visit our website.

.050” x .050” (1.27mm x 1.27mm) Micro Strips FTS Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Terminal Material:** Phoshpor Bronze • **Current Rating:** 1.75A@ 80°C ambient • **Operating Temperature:** -55°C ~ 125°C • **Plating:** 10µ” (.25µm) Gold on post, Tin on Tail • **Mates with:** FFSD, CLP, FLE Series

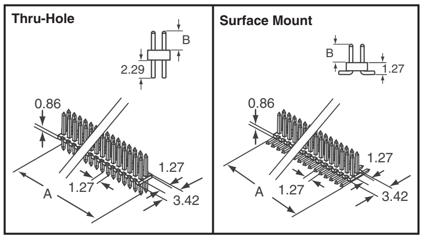

No. of Pos.	Dim. (mm)		Digi-Key Part No.†	Price Each		
	A	B		1	10	100
Through Hole						
Mates with CLP Series						
4	2.54	1.65	SAM1158-02-ND	3.27	2.93	2.41
6	3.81	1.65	SAM1158-03-ND	3.40	3.05	2.51
8	5.08	1.65	SAM1158-04-ND	3.53	3.17	2.61
10	6.35	1.65	SAM1158-05-ND	3.67	3.29	2.71
12	7.62	1.65	SAM1158-06-ND	3.80	3.40	2.80
14	8.89	1.65	SAM1158-07-ND	3.93	3.52	2.90
16	10.16	1.65	SAM1158-08-ND	4.07	3.64	3.00
18	11.43	1.65	SAM1158-09-ND	4.20	3.76	3.10
20	12.70	1.65	SAM1158-10-ND	4.33	3.88	3.20
22	13.97	1.65	SAM1158-11-ND	4.47	4.00	3.29
24	15.24	1.65	SAM1158-12-ND	4.60	4.12	3.39
26	16.51	1.65	SAM1158-13-ND	4.73	4.24	3.49
Mates with FFSD Series						
4	2.54	3.05	SAM1156-02-ND	3.27	2.93	2.41
6	3.81	3.05	SAM1156-03-ND	3.40	3.05	2.51
8	5.08	3.05	SAM1156-04-ND	3.53	3.17	2.61
10	6.35	3.05	SAM1156-05-ND	3.67	3.29	2.71
12	7.62	3.05	SAM1156-06-ND	3.80	3.40	2.80
14	8.89	3.05	SAM1156-07-ND	3.93	3.52	2.90
16	10.16	3.05	SAM1156-08-ND	4.07	3.64	3.00
18	11.43	3.05	SAM1156-09-ND	4.20	3.76	3.10
20	12.70	3.05	SAM1156-10-ND	4.33	3.88	3.20
22	13.97	3.05	SAM1156-11-ND	4.47	4.00	3.29
24	15.24	3.05	SAM1156-12-ND	4.60	4.12	3.39
26	16.51	3.05	SAM1156-13-ND	4.73	4.24	3.49
Surface Mount						
Mates with CLP Series						
4	2.54	1.65	SAM1159-02-ND	3.78	3.39	2.79
6	3.81	1.65	SAM1159-03-ND	3.92	3.52	2.90
8	5.08	1.65	SAM1159-04-ND	4.07	3.64	3.00
10	6.35	1.65	SAM1159-05-ND	4.21	3.77	3.11
12	7.62	1.65	SAM1159-06-ND	4.35	3.90	3.21
14	8.89	1.65	SAM1159-07-ND	4.49	4.03	3.32
16	10.16	1.65	SAM1159-08-ND	4.64	4.15	3.42
18	11.43	1.65	SAM1159-09-ND	4.78	4.28	3.53
20	12.70	1.65	SAM1159-10-ND	4.92	4.41	3.63
22	13.97	1.65	SAM1159-11-ND	5.06	4.54	3.74
24	15.24	1.65	SAM1159-12-ND	5.21	4.66	3.84
26	16.51	1.65	SAM1159-13-ND	5.35	4.79	3.95
Mates with FFSD Series						
4	2.54	3.05	SAM1157-02-ND	3.78	3.39	2.79
6	3.81	3.05	SAM1157-03-ND	3.92	3.52	2.90
8	5.08	3.05	SAM1157-04-ND	4.07	3.64	3.00
10	6.35	3.05	SAM1157-05-ND	4.21	3.77	3.11
12	7.62	3.05	SAM1157-06-ND	4.35	3.90	3.21
14	8.89	3.05	SAM1157-07-ND	4.49	4.03	3.32
16	10.16	3.05	SAM1157-08-ND	4.64	4.15	3.42
18	11.43	3.05	SAM1157-09-ND	4.78	4.28	3.53
20	12.70	3.05	SAM1157-10-ND	4.92	4.41	3.63
22	13.97	3.05	SAM1157-11-ND	5.06	4.54	3.74
24	15.24	3.05	SAM1157-12-ND	5.21	4.66	3.84
26	16.51	3.05	SAM1157-13-ND	5.35	4.79	3.95

† More product available online. For pricing and availability, visit our website.

.050” (1.27mm) Micro Headers FTSH Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Terminal Material:** Phosphor Bronze • **Plating:** 10µ” (.25µm) Gold on post, Matte Tin on Tail • **Current Rating:** 1.75A@ 80°C ambient • **Operating Temperature:** -55°C ~ 125°C • **Mates with:** FFSD, CLP, FLE Series

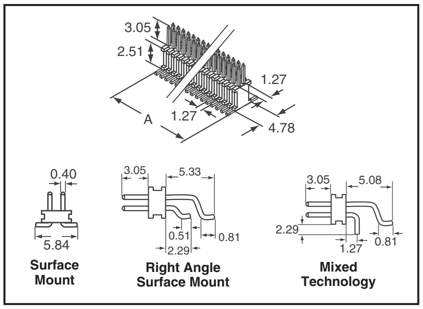

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
Surface Mount					
4	2.54	SAM1161-02-ND	3.78	3.39	2.79
6	3.81	SAM1161-03-ND	3.92	3.52	2.90
8	5.08	SAM1161-04-ND	4.07	3.64	3.00
10	6.35	SAM1161-05-ND	4.21	3.77	3.11
12	7.62	SAM1161-06-ND	4.35	3.90	3.21
14	8.89	SAM1161-07-ND	4.49	4.03	3.32
16	10.16	SAM1161-08-ND	4.64	4.15	3.42
18	11.43	SAM1161-09-ND	4.78	4.28	3.53
20	12.70	SAM1161-10-ND	4.92	4.41	3.63
22	13.97	SAM1161-11-ND	5.06	4.54	3.74
24	15.24	SAM1161-12-ND	5.21	4.66	3.84
26	16.51	SAM1161-13-ND	5.35	4.79	3.95
Right Angle Surface Mount					
4	2.54	SAM1160-02-ND	4.35	3.90	3.21
6	3.81	SAM1160-03-ND	4.52	4.05	3.34
8	5.08	SAM1160-04-ND	4.69	4.20	3.46
10	6.35	SAM1160-05-ND	4.86	4.36	3.59
12	7.62	SAM1160-06-ND	5.04	4.51	3.71
14	8.89	SAM1160-07-ND	5.21	4.66	3.84
16	10.16	SAM1160-08-ND	5.38	4.82	3.97
18	11.43	SAM1160-09-ND	5.55	4.97	4.09
20	12.70	SAM1160-10-ND	5.72	5.12	4.22
22	13.97	SAM1160-11-ND	5.89	5.27	4.34
24	15.24	SAM1160-12-ND	6.06	5.43	4.47
26	16.51	SAM1160-13-ND	6.23	5.58	4.60
Mixed Technology					
4	2.54	SAM1162-02-ND	4.35	3.90	3.21
6	3.81	SAM1162-03-ND	4.52	4.05	3.34
8	5.08	SAM1162-04-ND	4.69	4.20	3.46
10	6.35	SAM1162-05-ND	4.86	4.36	3.59
12	7.62	SAM1162-06-ND	5.04	4.51	3.71
14	8.89	SAM1162-07-ND	5.21	4.66	3.84
16	10.16	SAM1162-08-ND	5.38	4.82	3.97
18	11.43	SAM1162-09-ND	5.55	4.97	4.09
20	12.70	SAM1162-10-ND	5.72	5.12	4.22
22	13.97	SAM1162-11-ND	5.89	5.27	4.34
24	15.24	SAM1162-12-ND	6.06	5.43	4.47
26	16.51	SAM1162-13-ND	6.23	5.58	4.60

† More product available online. For pricing and availability, visit our website.

.050” (1.27mm) Pitch Sockets FLE Series

Specifications:

• **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** Gold over 50µ” (1.27µm) Nickel • **Current Rating:** 1.75A @ 80°C ambient • **Operating Temperature Range:** -55°C ~ 125°C • **Contact Resistance:** 15mΩ max • **Mates with:** FTSH, FTS Series

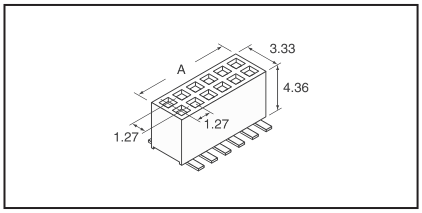

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
4	2.65	SAM1226-02-ND	6.71	6.01	4.95
6	3.92	SAM1226-03-ND	6.87	6.15	5.07
8	5.19	SAM1226-04-ND	7.03	6.29	5.18
10	6.46	SAM1226-05-ND	7.19	6.44	5.30
12	7.73	SAM1226-06-ND	7.35	6.58	5.42
14	9.00	SAM1226-07-ND	7.51	6.73	5.54
16	10.27	SAM1226-08-ND	7.68	6.87	5.66
18	11.54	SAM1226-09-ND	7.84	7.02	5.78
20	12.81	SAM1226-10-ND	8.00	7.16	5.90
22	14.08	SAM1226-11-ND	8.16	7.31	6.02
24	15.35	SAM1226-12-ND	8.32	7.45	6.14
26	16.62	SAM1226-13-ND	8.48	7.60	6.26

† More product available online. For pricing and availability, visit our website.

.050" (1.27mm) Sockets and Headers

SFML, TFML and TFM Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** Gold over 50µ" (1.27µm) Nickel • **Current Rating:** 2A @ 80°C ambient • **Voltage Rating:** 350VAC • **Operating Temperature Range:** -55°C ~ 125°C • **Socket Contact Resistance:** 15mΩ max • **Socket Insertion Depth:** .120" (3.05mm) to .160" (4.06mm) • **Socket Insertion Force:** 2.5oz (0.69N) average (single contact only) • **Header Locking Features:** 10 ~ 20 (one latch), 25 and 30 (two latches), 35 ~ 50 (three latches) • **Socket Max Cycles:** 100 with 10µ" (0.25µm) Gold • **SFML Series** Mates with TFML Series • **TFML Series** Mates with SFML Series

Fig. 1

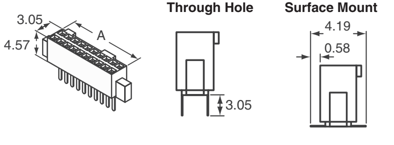

Fig. 2

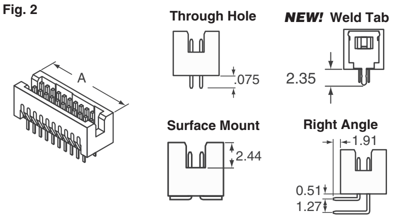

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100
Sockets						
Through Hole — SFML						
1	20	16.64	SAM8241-ND	4.12	2.84	2.32
	30	22.99	SAM8243-ND	4.95	3.51	2.88
	40	29.34	SAM8245-ND	6.21	4.55	3.71
	50	35.69	SAM8247-ND	7.48	5.54	4.58
	60	42.04	SAM8249-ND	8.62	6.47	5.39
	70	48.39	SAM8251-ND	9.14	6.86	5.72
	80	54.74	SAM8253-ND	10.01	7.62	6.53
	90	61.09	SAM8255-ND	11.25	8.56	7.34
	100	67.44	SAM8257-ND	12.24	9.42	7.89
	20	16.64	SAM8710-ND ***NEW!***	4.87	3.46	2.84
1	30	22.99	SAM8711-ND ***NEW!***	5.85	4.28	3.49
	40	29.34	SAM8712-ND ***NEW!***	7.48	5.54	4.58
	50	35.69	SAM8713-ND ***NEW!***	8.98	6.74	5.61
	60	42.04	SAM8714-ND ***NEW!***	10.33	7.86	6.74
	70	48.39	SAM8715-ND ***NEW!***	10.95	8.33	7.14
	80	54.74	SAM8716-ND ***NEW!***	12.24	9.42	7.89
	90	61.09	SAM8717-ND ***NEW!***	13.46	10.59	8.88
	100	67.44	SAM8718-ND ***NEW!***	14.94	11.75	9.85
Surface Mount — SFML						
1	20	16.64	SAM8242-ND	4.29	2.96	2.42
	30	22.99	SAM8244-ND	5.17	3.67	3.01
	40	29.34	SAM8246-ND	6.25	4.63	3.83
	50	35.69	SAM8248-ND	7.80	5.62	4.68
	60	42.04	SAM8250-ND	9.00	6.75	5.63
	70	48.39	SAM8252-ND	9.53	7.15	5.96
	80	54.74	SAM8254-ND	10.44	7.95	6.81
	90	61.09	SAM8256-ND	11.50	8.84	7.41
	100	67.44	SAM8258-ND	12.76	9.81	8.23
	20	16.64	SAM8719-ND ***NEW!***	5.09	3.61	2.96
1	30	22.99	SAM8720-ND ***NEW!***	6.08	4.45	3.63
	40	29.34	SAM8721-ND ***NEW!***	7.80	5.62	4.68
	50	35.69	SAM8722-ND ***NEW!***	9.36	7.02	5.85
	60	42.04	SAM8723-ND ***NEW!***	10.76	8.19	7.02
	70	48.39	SAM8724-ND ***NEW!***	11.41	8.68	7.44
	80	54.74	SAM8725-ND ***NEW!***	12.76	9.81	8.23
	90	61.09	SAM8726-ND ***NEW!***	14.04	11.04	9.26
	100	67.44	SAM8727-ND ***NEW!***	15.60	12.06	10.29
Headers						
Through Hole — TFML						
2	20	15.88	SAM8259-ND	4.03	2.78	2.27
	30	22.23	SAM8262-ND	4.84	3.44	2.82
	50	34.93	SAM8268-ND	7.33	5.43	4.49
	60	41.28	SAM8271-ND	8.42	6.32	5.27
	80	53.98	SAM8274-ND	9.80	7.46	6.39
	90	60.33	SAM8277-ND	11.02	8.39	7.19
	100	66.68	SAM8280-ND	11.97	9.21	7.72
Through Hole — Right Angle TFML						
2	20	15.88	SAM8260-ND	4.26	2.97	2.44
	30	22.23	SAM8263-ND	5.21	3.77	3.09
	40	28.58	SAM8266-ND	6.45	4.78	3.95
	50	34.93	SAM8269-ND	8.05	5.80	4.83
	60	41.28	SAM8272-ND	9.26	6.95	5.79
	80	53.98	SAM8275-ND	10.76	8.19	7.02
	90	60.33	SAM8278-ND	11.86	9.12	7.65
	100	66.68	SAM8281-ND	13.16	10.13	8.49
NEW!* Through Hole TFM with Weld Tabs *NEW!						
2	10	9.53	SAM8698-ND	2.77	1.88	1.52
	20	15.88	SAM8699-ND	4.34	3.03	2.48
	30	22.23	SAM8700-ND	5.16	3.73	3.06
	40	28.58	SAM8701-ND	6.40	4.68	3.82
	50	34.93	SAM8702-ND	7.55	5.44	4.53
	60	41.28	SAM8703-ND	8.57	6.43	5.36
Surface Mount — TFML						
2	20	15.88	SAM8261-ND	4.26	2.97	2.44
	30	22.23	SAM8264-ND	5.21	3.77	3.09
	40	28.58	SAM8267-ND	6.45	4.78	3.95
	50	34.93	SAM8270-ND	8.05	5.80	4.83
	60	41.28	SAM8273-ND	9.26	6.95	5.79
	80	53.98	SAM8276-ND	10.76	8.19	7.02
	90	60.33	SAM8279-ND	11.86	9.12	7.65
	100	66.68	SAM8282-ND	13.16	10.13	8.49
NEW!* Surface Mount TFM with Weld Tabs *NEW!						
2	10	9.53	SAM8704-ND	2.98	2.02	1.59
	20	15.88	SAM8705-ND	4.73	3.30	2.71
	30	22.23	SAM8706-ND	5.38	3.94	3.21
	40	28.58	SAM8707-ND	6.70	4.96	4.11
	50	34.93	SAM8708-ND	7.90	5.93	4.94
	60	41.28	SAM8709-ND	9.36	7.02	5.85

.0787" (2.00mm) Low Profile Sockets

CLT Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** 10µ" Gold over 50µ" (1.27µm) Nickel • **Current Rating:** 2A @ 80°C ambient • **Operating Temperature Range:** -55°C ~ 125°C • **Contact Resistance:** 10mΩ max • **Mates with:** TMM Series

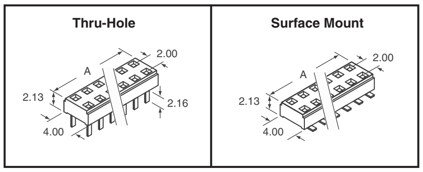

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
Through Hole — Gold Plating					
4	4	SAM1163-02-ND	4.14	3.71	3.06
6	6	SAM1163-03-ND	4.32	3.87	3.19
8	8	SAM1163-04-ND	4.50	4.03	3.32
10	10	SAM1163-05-ND	4.68	4.19	3.46
12	12	SAM1163-06-ND	4.86	4.36	3.59
14	14	SAM1163-07-ND	5.04	4.52	3.72
16	16	SAM1163-08-ND	5.22	4.68	3.85
18	18	SAM1163-09-ND	5.41	4.84	3.99
20	20	SAM1163-10-ND	5.59	5.00	4.12
22	22	SAM1163-11-ND	5.77	5.16	4.25
24	24	SAM1163-12-ND	5.95	5.33	4.39
26	26	SAM1163-13-ND	6.13	5.49	4.52
Surface Mount — Gold Plating					
4	4	SAM1165-02-ND	4.14	3.71	3.06
6	6	SAM1165-03-ND	4.32	3.87	3.19
8	8	SAM1165-04-ND	4.50	4.03	3.32
10	10	SAM1165-05-ND	4.68	4.19	3.46
12	12	SAM1165-06-ND	4.86	4.36	3.59
14	14	SAM1165-07-ND	5.04	4.52	3.72
16	16	SAM1165-08-ND	5.22	4.68	3.85
18	18	SAM1165-09-ND	5.41	4.84	3.99
20	20	SAM1165-10-ND	5.59	5.00	4.12
22	22	SAM1165-11-ND	5.77	5.16	4.25
24	24	SAM1165-12-ND	5.95	5.33	4.39
26	26	SAM1165-13-ND	6.13	5.49	4.52
Through Hole — Gold on Contact, Matte Tin on Tail					
4	4	SAM1164-02-ND	4.23	3.79	3.12
6	6	SAM1164-03-ND	4.40	3.94	3.25
8	8	SAM1164-04-ND	4.57	4.09	3.37
10	10	SAM1164-05-ND	4.74	4.25	3.50
12	12	SAM1164-06-ND	4.91	4.40	3.62
14	14	SAM1164-07-ND	5.08	4.55	3.75
16	16	SAM1164-08-ND	5.25	4.70	3.88
18	18	SAM1164-09-ND	5.42	4.86	4.00
20	20	SAM1164-10-ND	5.60	5.01	4.13
22	22	SAM1164-11-ND	5.77	5.16	4.25
24	24	SAM1164-12-ND	5.94	5.32	4.38
26	26	SAM1164-13-ND	6.11	5.47	4.51
Surface Mount — Gold on Contact, Matte Tin on Tail					
4	4	SAM1166-02-ND	4.23	3.79	3.12
6	6	SAM1166-03-ND	4.40	3.94	3.25
8	8	SAM1166-04-ND	4.57	4.09	3.37
10	10	SAM1166-05-ND	4.74	4.25	3.50
12	12	SAM1166-06-ND	4.91	4.40	3.62
14	14	SAM1166-07-ND	5.08	4.55	3.75
16	16	SAM1166-08-ND	5.25	4.70	3.88
18	18	SAM1166-09-ND	5.42	4.86	4.00
20	20	SAM1166-10-ND	5.60	5.01	4.13
22	22	SAM1166-11-ND	5.77	5.16	4.25
24	24	SAM1166-12-ND	5.94	5.32	4.38
26	26	SAM1166-13-ND	6.11	5.47	4.51

† More product available online. For pricing and availability, visit our website.

NEW! .050" (1.27mm) Socket Cable Assembly

SFSD Series

Specifications: • **Insulator Material:** Black LCP • **Contact Material:** BeCu • **Plating:** Gold over 50µ" (1.27µm) Nickel • **Operating Temperature Range:** -55°C ~ 80°C • **Mates with:** TFM Series

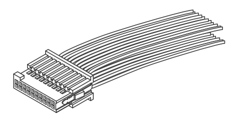

Single End

No. of Pos.	Cable Length	Digi-Key Part No.	Price Each 1	10	100
Single End					
10	5"	SAM8662-ND	12.15	9.35	7.83
20		SAM8663-ND	15.62	12.07	10.30
30		SAM8664-ND	22.24	18.13	15.57
40		SAM8665-ND	23.30	18.99	16.31
50		SAM8666-ND	31.08	25.51	22.32
60		SAM8667-ND	32.14	26.37	23.08
10	10"	SAM8668-ND	13.93	10.96	9.18
20		SAM8669-ND	18.08	14.64	12.27
30		SAM8670-ND	28.46	23.20	19.93
40		SAM8671-ND	29.52	24.06	20.67
50		SAM8672-ND	39.41	32.15	28.52
60		SAM8673-ND	40.43	32.99	29.26
Double End, Notch up, Straight					
20	5"	SAM8674-ND	23.32	19.01	16.33
30		SAM8682-ND	34.63	28.42	24.87
40		SAM8690-ND	36.70	30.12	26.35
20	10"	SAM8678-ND	26.44	21.55	18.51
30		SAM8686-ND	39.65	32.35	28.70
40		SAM8694-ND	41.67	34.00	30.16
Double End, Notch down, Straight					
20	5"	SAM8675-ND	23.32	19.01	16.33
30		SAM8683-ND	34.63	28.42	24.87
40		SAM8691-ND	36.70	30.12	26.35
20	10"	SAM8679-ND	26.44	21.55	18.51
30		SAM8687-ND	39.65	32.35	28.70
40		SAM8695-ND	41.67	34.00	30.16
Double End, Notch up, Crossed					
20	5"	SAM8676-ND	23.32	19.01	16.33
30		SAM8684-ND	34.63	28.42	24.87
40		SAM8692-ND	36.70	30.12	26.35
20	10"	SAM8680-ND	26.44	21.55	18.51
30		SAM8688-ND	39.65	32.35	28.70
40		SAM8696-ND	41.67	34.00	30.16
Double End, Notch down, Crossed					
20	5"	SAM8677-ND	23.32	19.01	16.33
30		SAM8685-ND	34.63	28.42	24.87
40		SAM8693-ND	36.70	30.12	26.35
20	10"	SAM8681-ND	26.44	21.55	18.51
30		SAM8689-ND	39.65	32.35	28.70
40		SAM8697-ND	41.67	34.00	30.16

.0787" (2.00mm)
Surface Mount and Low Profile Through Hole Headers
TMM Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Current Rating:** 3A @ 80°C ambient when mated with SQT Series, 2.4A @ 80°C ambient when mated with CLT Series • **Operating Temperature Range:** -55°C ~ 125°C with Gold, -55°C ~ 105°C with Tin • **Mates with:** SQT, SQW, TLE, SMM, MMS, TCSD, CLT Series

Fig. 1

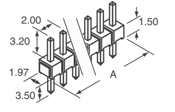

Fig. 2

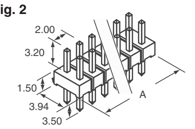

Fig. 3

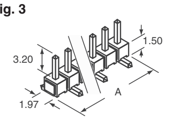

Fig. 4

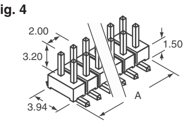

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
Fig. 1 — Single Row, Low Profile Through Hole					
20μ" Gold on Contact Area, Gold Flash on Tail					
2	4	SAM1174-02-ND	1.96	1.76	1.45
3	6	SAM1174-03-ND	2.03	1.82	1.50
4	8	SAM1174-04-ND	2.11	1.89	1.56
5	10	SAM1174-05-ND	2.19	1.96	1.61
6	12	SAM1174-06-ND	2.26	2.03	1.67
7	14	SAM1174-07-ND	2.34	2.10	1.73
8	16	SAM1174-08-ND	2.41	2.16	1.78
9	18	SAM1174-09-ND	2.49	2.23	1.84
10	20	SAM1174-10-ND	2.57	2.30	1.89
11	22	SAM1174-11-ND	2.64	2.37	1.95
12	24	SAM1174-12-ND	2.72	2.44	2.01
13	26	SAM1174-13-ND	2.79	2.50	2.06
30μ" Gold on Contact Area, Matte Tin on Tail					
2	4	SAM1176-02-ND	2.57	2.31	1.90
3	6	SAM1176-03-ND	2.67	2.39	1.97
4	8	SAM1176-04-ND	2.76	2.48	2.04
5	10	SAM1176-05-ND	2.86	2.56	2.11
6	12	SAM1176-06-ND	2.95	2.65	2.18
7	14	SAM1176-07-ND	3.05	2.73	2.25
8	16	SAM1176-08-ND	3.14	2.82	2.32
9	18	SAM1176-09-ND	3.24	2.90	2.39
10	20	SAM1176-10-ND	3.33	2.99	2.46
11	22	SAM1176-11-ND	3.43	3.07	2.53
12	24	SAM1176-12-ND	3.52	3.16	2.60
13	26	SAM1176-13-ND	3.62	3.24	2.67
Matte Tin					
2	4	SAM1178-02-ND	1.43	1.28	1.05
3	6	SAM1178-03-ND	1.47	1.32	1.09
4	8	SAM1178-04-ND	1.52	1.36	1.12
5	10	SAM1178-05-ND	1.57	1.41	1.16
6	12	SAM1178-06-ND	1.62	1.45	1.19
7	14	SAM1178-07-ND	1.66	1.49	1.23
8	16	SAM1178-08-ND	1.71	1.53	1.26
9	18	SAM1178-09-ND	1.76	1.58	1.30
10	20	SAM1178-10-ND	1.80	1.62	1.33
11	22	SAM1178-11-ND	1.85	1.66	1.37
12	24	SAM1178-12-ND	1.90	1.70	1.40
13	26	SAM1178-13-ND	1.95	1.75	1.44
Fig. 2 — Dual Row, Low Profile Through Hole					
20μ" Gold on Contact Area, Gold Flash on Tail					
4	4	SAM1173-02-ND	3.17	2.84	2.34
6	6	SAM1173-03-ND	3.31	2.96	2.44
8	8	SAM1173-04-ND	3.44	3.08	2.54
10	10	SAM1173-05-ND	3.57	3.20	2.64
12	12	SAM1173-06-ND	3.71	3.32	2.73
14	14	SAM1173-07-ND	3.84	3.44	2.83
16	16	SAM1173-08-ND	3.97	3.56	2.93
18	18	SAM1173-09-ND	4.10	3.68	3.03
20	20	SAM1173-10-ND	4.24	3.80	3.13
22	22	SAM1173-11-ND	4.37	3.91	3.22
24	24	SAM1173-12-ND	4.50	4.03	3.32
26	26	SAM1173-13-ND	4.64	4.15	3.42
30μ" Gold on Contact Area, Matte Tin on Tail					
4	4	SAM1175-02-ND	3.92	3.52	2.90
6	6	SAM1175-03-ND	4.09	3.67	3.02
8	8	SAM1175-04-ND	4.27	3.82	3.15
10	10	SAM1175-05-ND	4.44	3.97	3.27
12	12	SAM1175-06-ND	4.61	4.13	3.40
14	14	SAM1175-07-ND	4.78	4.28	3.53
16	16	SAM1175-08-ND	4.95	4.43	3.65
18	18	SAM1175-09-ND	5.12	4.59	3.78
20	20	SAM1175-10-ND	5.29	4.74	3.90
22	22	SAM1175-11-ND	5.46	4.89	4.03
24	24	SAM1175-12-ND	5.63	5.05	4.16
26	26	SAM1175-13-ND	5.80	5.20	4.28
Matte Tin					
4	4	SAM1177-02-ND	2.20	1.98	1.63
6	6	SAM1177-03-ND	2.29	2.05	1.69
8	8	SAM1177-04-ND	2.37	2.13	1.75
10	10	SAM1177-05-ND	2.46	2.21	1.82
12	12	SAM1177-06-ND	2.55	2.28	1.88
14	14	SAM1177-07-ND	2.63	2.36	1.94
16	16	SAM1177-08-ND	2.72	2.44	2.01
18	18	SAM1177-09-ND	2.80	2.51	2.07
20	20	SAM1177-10-ND	2.89	2.59	2.13
22	22	SAM1177-11-ND	2.97	2.66	2.20
24	24	SAM1177-12-ND	3.06	2.74	2.26
26	26	SAM1177-13-ND	3.14	2.82	2.32
Fig. 3 — Single Row, Surface Mount					
20μ" Gold on Contact Area, Gold Flash on Tail					
2	4	SAM1168-02-ND	2.19	1.96	1.61
3	6	SAM1168-03-ND	2.28	2.04	1.68
4	8	SAM1168-04-ND	2.37	2.13	1.75
5	10	SAM1168-05-ND	2.47	2.21	1.82
6	12	SAM1168-06-ND	2.57	2.30	1.89
7	14	SAM1168-07-ND	2.66	2.38	1.96
8	16	SAM1168-08-ND	2.76	2.47	2.03
9	18	SAM1168-09-ND	2.85	2.55	2.10
10	20	SAM1168-10-ND	2.94	2.64	2.17
11	22	SAM1168-11-ND	3.04	2.72	2.24
12	24	SAM1168-12-ND	3.14	2.81	2.31
13	26	SAM1168-13-ND	3.23	2.89	2.38
30μ" Gold on Contact Area, Gold Flash on Tail					
2	4	SAM1170-02-ND	3.04	2.72	2.24
3	6	SAM1170-03-ND	3.15	2.83	2.33
4	8	SAM1170-04-ND	3.27	2.93	2.41
5	10	SAM1170-05-ND	3.38	3.03	2.50
6	12	SAM1170-06-ND	3.50	3.13	2.58
7	14	SAM1170-07-ND	3.61	3.23	2.66
8	16	SAM1170-08-ND	3.72	3.34	2.75
9	18	SAM1170-09-ND	3.84	3.44	2.83
10	20	SAM1170-10-ND	3.95	3.54	2.92
11	22	SAM1170-11-ND	4.07	3.64	3.00
12	24	SAM1170-12-ND	4.18	3.74	3.08
13	26	SAM1170-13-ND	4.29	3.85	3.17
Matte Tin					
2	4	SAM1172-02-ND	1.70	1.53	1.26
3	6	SAM1172-03-ND	1.76	1.58	1.30
4	8	SAM1172-04-ND	1.81	1.63	1.34
5	10	SAM1172-05-ND	1.87	1.68	1.38
6	12	SAM1172-06-ND	1.93	1.73	1.43
7	14	SAM1172-07-ND	1.99	1.78	1.47
8	16	SAM1172-08-ND	2.04	1.83	1.51
9	18	SAM1172-09-ND	2.10	1.88	1.55
10	20	SAM1172-10-ND	2.16	1.93	1.59
11	22	SAM1172-11-ND	2.21	1.99	1.64
12	24	SAM1172-12-ND	2.27	2.04	1.68
13	26	SAM1172-13-ND	2.33	2.09	1.72
Fig. 4 — Dual Row, Surface Mount					
20μ" Gold on Contact Area, Gold Flash on Tail					
4	4	SAM1167-02-ND	3.74	3.35	2.76
6	6	SAM1167-03-ND	3.90	3.50	2.88
8	8	SAM1167-04-ND	4.07	3.64	3.00
10	10	SAM1167-05-ND	4.23	3.79	3.12
12	12	SAM1167-06-ND	4.39	3.93	3.24
14	14	SAM1167-07-ND	4.55	4.08	3.36
16	16	SAM1167-08-ND	4.71	4.22	3.48
18	18	SAM1167-09-ND	4.87	4.37	3.60
20	20	SAM1167-10-ND	5.04	4.51	3.71
22	22	SAM1167-11-ND	5.20	4.65	3.83
24	24	SAM1167-12-ND	5.36	4.80	3.95
26	26	SAM1167-13-ND	5.52	4.94	4.07
30μ" Gold on Contact Area, Gold Flash on Tail					
4	4	SAM1169-02-ND	4.98	4.46	3.67
6	6	SAM1169-03-ND	5.18	4.64	3.82
8	8	SAM1169-04-ND	5.38	4.82	3.97
10	10	SAM1169-05-ND	5.58	4.99	4.11
12	12	SAM1169-06-ND	5.78	5.17	4.26
14	14	SAM1169-07-ND	5.98	5.35	4.41
16	16	SAM1169-08-ND	6.18	5.53	4.55
18	18	SAM1169-09-ND	6.37	5.71	4.70
20	20	SAM1169-10-ND	6.57	5.89	4.85
22	22	SAM1169-11-ND	6.77	6.07	5.00
24	24	SAM1169-12-ND	6.97	6.24	5.14
26	26	SAM1169-13-ND	7.17	6.42	5.29
Matte Tin					
4	4	SAM1171-02-ND	2.55	2.28	1.88
6	6	SAM1171-03-ND	2.65	2.38	1.96
8	8	SAM1171-04-ND	2.76	2.47	2.03
10	10	SAM1171-05-ND	2.86	2.56	2.11
12	12	SAM1171-06-ND	2.96	2.66	2.19
14	14	SAM1171-07-ND	3.07	2.75	2.27
16	16	SAM1171-08-ND	3.17	2.84	2.34
18	18	SAM1171-09-ND	3.28	2.94	2.42
20	20	SAM1171-10-ND	3.38	3.03	2.50
22	22	SAM1171-11-ND	3.49	3.12	2.57
24	24	SAM1171-12-ND	3.59	3.22	2.65
26	26	SAM1171-13-ND	3.70	3.31	2.73

† More product available online. For pricing and availability, visit our website.

.0787" (2.00mm)
Box Sockets MMS Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Operating Temperature Range:** -55°C ~ 125°C with Gold, -55°C ~ 105°C with Tin • **Contact Resistance:** 10mΩ max. • **Current Rating:** 2A @ 80°C ambient • **Mates with:** TMM, TCMD Series

Fig. 1

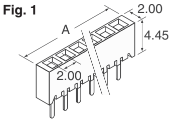

Fig. 2

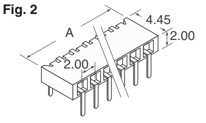

Fig. 3

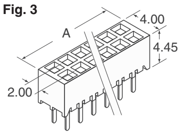

Fig. 4

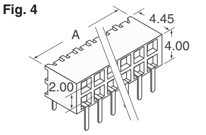

Fig. 5

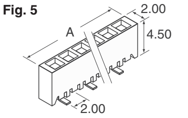

Fig. 6

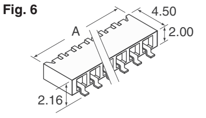

Fig. 7

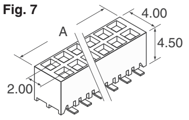

Fig. 8

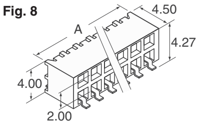

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
Fig. 1 — Single Row, Through Hole, Vertical					
10μ" Gold Contact, Matte Tin on Tail					
2	4.254	SAM1230-02-ND	3.23	2.89	2.38
3	6.254	SAM1230-03-ND	3.38	3.03	2.50
4	8.254	SAM1230-04-ND	3.53	3.17	2.61
5	10.254	SAM1230-05-ND	3.69	3.30	2.72
6	12.254	SAM1230-06-ND	3.84	3.44	2.83
7	14.254	SAM1230-07-ND	3.99	3.57	2.94
8	16.254	SAM1230-08-ND	4.14	3.71	3.06
9	18.254	SAM1230-09-ND	4.29	3.85	3.17
10	20.254	SAM1230-10-ND	4.45	3.98	3.28
11	22.254	SAM1230-11-ND	4.60	4.12	3.39
12	24.254	SAM1230-12-ND	4.75	4.25	3.50
13	26.254	SAM1230-13-ND	4.90	4.39	3.62
Matte Tin					
2	4.254	SAM1234-02-ND	2.59	2.33	1.92
3	6.254	SAM1234-03-ND	2.72	2.44	2.01
4	8.254	SAM1234-04-ND	2.84	2.55	2.10
5	10.254	SAM1234-05-ND	2.96	2.66	2.19
6	12.254	SAM1234-06-ND	3.09	2.77	2.28
7	14.254	SAM1234-07-ND	3.21	2.88	2.37
8	16.254	SAM1234-08-ND	3.33	2.99	2.46
9	18.254	SAM1234-09-ND	3.46	3.10	2.55
10	20.254	SAM1234-10-ND	3.58	3.21	2.64
11	22.254	SAM1234-11-ND	3.71	3.32	2.73
12	24.254	SAM1234-12-ND	3.83	3.43	2.83
13	26.254	SAM1234-13-ND	3.95	3.54	2.92
Fig. 2 — Single Row, Through Hole, Horizontal					
10μ" Gold Contact, Matte Tin on Tail					
2	4.254	SAM1229-02-ND	3.76	3.37	2.78
3	6.254	SAM1229-03-ND	3.96	3.55	2.92
4	8.254	SAM1229-04-ND	4.16	3.73	3.07
5	10.254	SAM1229-05-ND	4.36	3.91	3.22
6	12.254	SAM1229-06-ND	4.56	4.08	3.36
7	14.254	SAM1229-07-ND	4.76	4.26	3.51
8	16.254	SAM1229-08-ND	4.96	4.44	3.66
9	18.254	SAM1229-09-ND	5.16	4.62	3.81
10	20.254	SAM1229-10-ND	5.36	4.80	3.95
11	22.254	SAM1229-11-ND	5.56	4.98	4.10
12	24.254	SAM1229-12-ND	5.76	5.16	4.25
13	26.254	SAM1229-13-ND	5.96	5.33	4.39
Matte Tin					
2	4.254	SAM1233-02-ND	3.06	2.74	2.26
3	6.254	SAM1233-03-ND	3.22	2.89	2.38
4	8.254	SAM1233-04-ND	3.38	3.03	2.50
5	10.254	SAM1233-05-ND	3.54	3.17	2.62
6	12.254	SAM1233-06-ND	3.71	3.32	2.73
7	14.254	SAM1233-07-ND	3.87	3.46	2.85
8	16.254	SAM1233-08-ND	4.03	3.61	2.97
9	18.254	SAM1233-09-ND	4.19	3.75	3.09
10	20.254	SAM1233-10-ND	4.35	3.90	3.21
11	22.254	SAM1233-11-ND	4.51	4.04	3.33
12	24.254	SAM1233-12-ND	4.67	4.19	3.45
13	26.254	SAM1233-13-ND	4.84	4.33	3.57
Fig. 3 — Dual Row, Through Hole, Vertical					
10μ" Gold Contact, Matte Tin on Tail					
4	4.559	SAM1228-02-ND	4.05	3.63	2.99
6	6.559	SAM1228-03-ND	4.26	3.81	3.14
8	8.559	SAM1228-04-ND	4.47	4.00	3.29
10	10.559	SAM1228-05-ND	4.67	4.19	3.45
12	12.559	SAM1228-06-ND	4.88	4.37	3.60
14	14.559	SAM1228-07-ND	5.09	4.56	3.76
16	16.559	SAM1228-08-ND	5.30	4.75	3.91
18	18.559	SAM1228-09-ND	5.51	4.93	4.06

† More product available online.
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(Continued)

.0787" (2.00mm) Box Sockets

MMS Series *(Cont.)*

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
20	20.559	SAM1228-10-ND	5.72	5.12	4.22
22	22.559	SAM1228-11-ND	5.93	5.31	4.37
24	24.559	SAM1228-12-ND	6.14	5.50	4.53
26	26.559	SAM1228-13-ND	6.35	5.68	4.68
Matte Tin					
4	4.559	SAM1232-02-ND	3.22	2.89	2.38
6	6.559	SAM1232-03-ND	3.39	3.04	2.50
8	8.559	SAM1232-04-ND	3.56	3.19	2.63
10	10.559	SAM1232-05-ND	3.73	3.35	2.76
12	12.559	SAM1232-06-ND	3.90	3.50	2.88
14	14.559	SAM1232-07-ND	4.08	3.65	3.01
16	16.559	SAM1232-08-ND	4.25	3.80	3.13
18	18.559	SAM1232-09-ND	4.42	3.96	3.26
20	20.559	SAM1232-10-ND	4.59	4.11	3.39
22	22.559	SAM1232-11-ND	4.76	4.26	3.51
24	24.559	SAM1232-12-ND	4.93	4.42	3.64
26	26.559	SAM1232-13-ND	5.10	4.57	3.76
Fig. 4 — Dual Row, Thru-Hole, Horizontal					
10μ" Gold Contact, Matte Tin on Tail					
4	4.559	SAM1227-02-ND	5.83	5.22	4.30
6	6.559	SAM1227-03-ND	6.12	5.48	4.51
8	8.559	SAM1227-04-ND	6.40	5.73	4.72
10	10.559	SAM1227-05-ND	6.69	5.99	4.93
12	12.559	SAM1227-06-ND	6.97	6.24	5.14
14	14.559	SAM1227-07-ND	7.26	6.50	5.35
16	16.559	SAM1227-08-ND	7.54	6.75	5.56
18	18.559	SAM1227-09-ND	7.83	7.01	5.77
20	20.559	SAM1227-10-ND	8.11	7.26	5.98
22	22.559	SAM1227-11-ND	8.40	7.52	6.19
24	24.559	SAM1227-12-ND	8.68	7.77	6.40
26	26.559	SAM1227-13-ND	8.97	8.03	6.61
Matte Tin					
4	4.559	SAM1231-02-ND	4.47	4.01	3.30
6	6.559	SAM1231-03-ND	4.71	4.22	3.48
8	8.559	SAM1231-04-ND	4.95	4.43	3.65
10	10.559	SAM1231-05-ND	5.19	4.65	3.83
12	12.559	SAM1231-06-ND	5.42	4.86	4.00
14	14.559	SAM1231-07-ND	5.66	5.07	4.18
16	16.559	SAM1231-08-ND	5.90	5.28	4.35
18	18.559	SAM1231-09-ND	6.14	5.50	4.53
20	20.559	SAM1231-10-ND	6.37	5.71	4.70
22	22.559	SAM1231-11-ND	6.61	5.92	4.88
24	24.559	SAM1231-12-ND	6.85	6.13	5.05
26	26.559	SAM1231-13-ND	7.09	6.35	5.23
Fig. 5 — Single Row, Surface Mount, Vertical					
10μ" Gold Contact, Matte Tin on Tail					
2	4.254	SAM1238-02-ND	3.33	2.98	2.45
3	6.254	SAM1238-03-ND	3.49	3.12	2.57
4	8.254	SAM1238-04-ND	3.65	3.27	2.69
5	10.254	SAM1238-05-ND	3.81	3.41	2.81
6	12.254	SAM1238-06-ND	3.97	3.56	2.93
7	14.254	SAM1238-07-ND	4.13	3.70	3.05
8	16.254	SAM1238-08-ND	4.29	3.85	3.17
9	18.254	SAM1238-09-ND	4.46	3.99	3.29
10	20.254	SAM1238-10-ND	4.62	4.14	3.41
11	22.254	SAM1238-11-ND	4.78	4.28	3.53
12	24.254	SAM1238-12-ND	4.94	4.42	3.64
13	26.254	SAM1238-13-ND	5.10	4.57	3.76
Matte Tin					
2	4.254	SAM1242-02-ND	2.63	2.36	1.94
3	6.254	SAM1242-03-ND	2.76	2.48	2.04
4	8.254	SAM1242-04-ND	2.90	2.60	2.14
5	10.254	SAM1242-05-ND	3.03	2.72	2.24
6	12.254	SAM1242-06-ND	3.16	2.84	2.34
7	14.254	SAM1242-07-ND	3.30	2.95	2.43
8	16.254	SAM1242-08-ND	3.43	3.07	2.53
9	18.254	SAM1242-09-ND	3.56	3.19	2.63
10	20.254	SAM1242-10-ND	3.70	3.31	2.73
11	22.254	SAM1242-11-ND	3.83	3.43	2.83
12	24.254	SAM1242-12-ND	3.96	3.55	2.92
13	26.254	SAM1242-13-ND	4.09	3.67	3.02
Fig. 6 — Single Row, Surface Mount, Horizontal					
10μ" Gold Contact, Matte Tin on Tail					
2	4.254	SAM1237-02-ND	4.02	3.60	2.97
3	6.254	SAM1237-03-ND	4.23	3.79	3.12
4	8.254	SAM1237-04-ND	4.44	3.97	3.27
5	10.254	SAM1237-05-ND	4.65	4.16	3.43
6	12.254	SAM1237-06-ND	4.85	4.35	3.58
7	14.254	SAM1237-07-ND	5.06	4.54	3.74
8	16.254	SAM1237-08-ND	5.27	4.72	3.89
9	18.254	SAM1237-09-ND	5.48	4.91	4.04
10	20.254	SAM1237-10-ND	5.69	5.10	4.20
11	22.254	SAM1237-11-ND	5.90	5.28	4.35
12	24.254	SAM1237-12-ND	6.11	5.47	4.51
13	26.254	SAM1237-13-ND	6.32	5.66	4.66
Matte Tin					
2	4.254	SAM1241-02-ND	3.19	2.86	2.36
3	6.254	SAM1241-03-ND	3.36	3.01	2.48
4	8.254	SAM1241-04-ND	3.53	3.17	2.61
5	10.254	SAM1241-05-ND	3.71	3.32	2.73
6	12.254	SAM1241-06-ND	3.88	3.47	2.86
7	14.254	SAM1241-07-ND	4.05	3.63	2.99
8	16.254	SAM1241-08-ND	4.22	3.78	3.11
9	18.254	SAM1241-09-ND	4.39	3.93	3.24
10	20.254	SAM1241-10-ND	4.56	4.08	3.36
11	22.254	SAM1241-11-ND	4.73	4.24	3.49
12	24.254	SAM1241-12-ND	4.90	4.39	3.62
13	26.254	SAM1241-13-ND	5.07	4.54	3.74
Fig. 7 — Dual Row, Surface Mount, Vertical					
10μ" Gold Contact, Matte Tin on Tail					
4	4.559	SAM1236-02-ND	4.33	3.88	3.20
6	6.559	SAM1236-03-ND	4.55	4.08	3.36
8	8.559	SAM1236-04-ND	4.77	4.27	3.52
10	10.559	SAM1236-05-ND	4.99	4.47	3.68
12	12.559	SAM1236-06-ND	5.21	4.66	3.84
14	14.559	SAM1236-07-ND	5.42	4.86	4.00
16	16.559	SAM1236-08-ND	5.64	5.05	4.16
18	18.559	SAM1236-09-ND	5.86	5.25	4.32
20	20.559	SAM1236-10-ND	6.08	5.44	4.48
22	22.559	SAM1236-11-ND	6.30	5.64	4.65
24	24.559	SAM1236-12-ND	6.52	5.84	4.81
26	26.559	SAM1236-13-ND	6.74	6.03	4.97
Matte Tin					
4	4.559	SAM1240-02-ND	3.41	3.06	2.52
6	6.559	SAM1240-03-ND	3.59	3.22	2.65
8	8.559	SAM1240-04-ND	3.77	3.38	2.78
10	10.559	SAM1240-05-ND	3.95	3.54	2.92
12	12.559	SAM1240-06-ND	4.13	3.70	3.05
14	14.559	SAM1240-07-ND	4.31	3.86	3.18
16	16.559	SAM1240-08-ND	4.49	4.03	3.32
18	18.559	SAM1240-09-ND	4.67	4.19	3.45
20	20.559	SAM1240-10-ND	4.85	4.35	3.58
22	22.559	SAM1240-11-ND	5.04	4.51	3.71
24	24.559	SAM1240-12-ND	5.22	4.67	3.85
26	26.559	SAM1240-13-ND	5.40	4.83	3.98
Fig. 8 — Dual Row, Surface Mount, Horizontal					
10μ" Gold Contact, Matte Tin on Tail					
4	4.559	SAM1235-02-ND	6.00	5.38	4.43
6	6.559	SAM1235-03-ND	6.31	5.65	4.65
8	8.559	SAM1235-04-ND	6.61	5.92	4.88
10	10.559	SAM1235-05-ND	6.92	6.19	5.10
12	12.559	SAM1235-06-ND	7.22	6.46	5.32
14	14.559	SAM1235-07-ND	7.52	6.74	5.55
16	16.559	SAM1235-08-ND	7.83	7.01	5.77
18	18.559	SAM1235-09-ND	8.13	7.28	6.00
20	20.559	SAM1235-10-ND	8.44	7.55	6.22
22	22.559	SAM1235-11-ND	8.74	7.82	6.44
24	24.559	SAM1235-12-ND	9.04	8.10	6.67
26	26.559	SAM1235-13-ND	9.35	8.37	6.89
Matte Tin					
4	4.559	SAM1239-02-ND	4.85	4.34	3.57
6	6.559	SAM1239-03-ND	5.09	4.56	3.76
8	8.559	SAM1239-04-ND	5.34	4.78	3.94
10	10.559	SAM1239-05-ND	5.59	5.00	4.12
12	12.559	SAM1239-06-ND	5.83	5.22	4.30
14	14.559	SAM1239-07-ND	6.08	5.44	4.48
16	16.559	SAM1239-08-ND	6.33	5.67	4.67
18	18.559	SAM1239-09-ND	6.57	5.89	4.85
20	20.559	SAM1239-10-ND	6.82	6.11	5.03
22	22.559	SAM1239-11-ND	7.07	6.33	5.21
24	24.559	SAM1239-12-ND	7.32	6.55	5.39
26	26.559	SAM1239-13-ND	7.56	6.77	5.58

† More product available online. For pricing and availability, visit our website.

.0787" (2.00mm) Standard Sockets

TLE Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** 10μ" Gold over 50μ" Nickel • **Operating Temperature Range:** -55°C ~ 125°C • **Mates with:** TMM Series

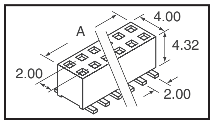

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
4	4	SAM1251-02-ND	4.64	4.15	3.42
6	6	SAM1251-03-ND	4.81	4.31	3.55
8	8	SAM1251-04-ND	4.98	4.46	3.67
10	10	SAM1251-05-ND	5.15	4.61	3.80
12	12	SAM1251-06-ND	5.32	4.76	3.92
14	14	SAM1251-07-ND	5.49	4.92	4.05
16	16	SAM1251-08-ND	5.66	5.07	4.18
18	18	SAM1251-09-ND	5.83	5.22	4.30
20	20	SAM1251-10-ND	6.00	5.38	4.43
22	22	SAM1251-11-ND	6.18	5.53	4.55
24	24	SAM1251-12-ND	6.35	5.68	4.68
26	26	SAM1251-13-ND	6.52	5.84	4.81

† More product available online. For pricing and availability, visit our website.

.0787" (2.00mm) High Reliability Sockets

SMM Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Beryllium Copper • **Plating:** 30μ" Gold on contact, Matte Tin on tail • **Current Rating:** 3A @ 80°C ambient • **Operating Temperature Range:** -55°C ~ 125°C • **Contact Resistance:** 10mΩ max. • **Mates with:** TMM, TCMD Series

Single Row

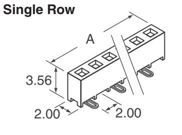

Dual Row

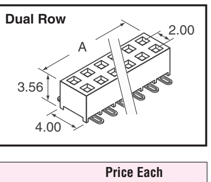

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
Single Row					
2	4	SAM1244-02-ND	3.37	3.02	2.49
3	6	SAM1244-03-ND	3.54	3.17	2.62
4	8	SAM1244-04-ND	3.71	3.33	2.74
5	10	SAM1244-05-ND	3.89	3.48	2.87
6	12	SAM1244-06-ND	4.06	3.63	2.99
7	14	SAM1244-07-ND	4.23	3.79	3.12
8	16	SAM1244-08-ND	4.40	3.94	3.25
9	18	SAM1244-09-ND	4.57	4.09	3.37
10	20	SAM1244-10-ND	4.74	4.25	3.50
11	22	SAM1244-11-ND	4.91	4.40	3.62
12	24	SAM1244-12-ND	5.08	4.55	3.75
13	26	SAM1244-13-ND	5.25	4.70	3.88
Dual Row					
4	4	SAM1243-02-ND	5.66	5.07	4.18
6	6	SAM1243-03-ND	5.96	5.33	4.39
8	8	SAM1243-04-ND	6.25	5.60	4.61
10	10	SAM1243-05-ND	6.55	5.86	4.83
12	12	SAM1243-06-ND	6.84	6.12	5.04
14	14	SAM1243-07-ND	7.13	6.39	5.26
16	16	SAM1243-08-ND	7.43	6.65	5.48
18	18	SAM1243-09-ND	7.72	6.92	5.70
20	20	SAM1243-10-ND	8.02	7.18	5.91
22	22	SAM1243-11-ND	8.31	7.44	6.13
24	24	SAM1243-12-ND	8.61	7.71	6.35
26	26	SAM1243-13-ND	8.90	7.97	6.56

† More product available online. For pricing and availability, visit our website.

.0787" (2.00mm) Square Tail Sockets

SQT Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** 10μ" Gold over 50μ" Nickel • **Operating Temperature Range:** -55°C ~ 125°C • **Contact Resistance:** 10mΩ max. • **Mates with:** TMM Series

Fig. 1

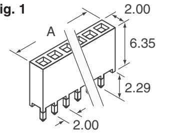

Fig. 2

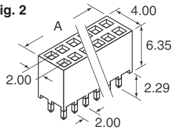

Fig. 3

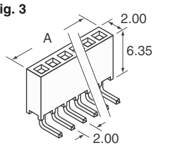

Fig. 4

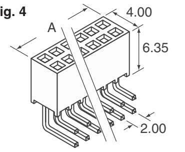

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
Fig. 1 — Single Row, Vertical					
2	4.3	SAM1247-02-ND	3.08	2.76	2.27
3	6.3	SAM1247-03-ND	3.20	2.87	2.36
4	8.3	SAM1247-04-ND	3.33	2.98	2.45
5	10.3	SAM1247-05-ND	3.45	3.09	2.55
6	12.3	SAM1247-06-ND	3.57	3.20	2.64
7	14.3	SAM1247-07-ND	3.70	3.31	2.73
8	16.3	SAM1247-08-ND	3.82	3.42	2.82
9	18.3	SAM1247-09-ND	3.94	3.53	2.91
10	20.3	SAM1247-10-ND	4.07	3.64	3.00
11	22.3	SAM1247-11-ND	4.19	3.75	3.09
12	24.3	SAM1247-12-ND	4.31	3.86	3.18
13	26.3	SAM1247-13-ND	4.44	3.97	3.27
Fig. 2 — Dual Row, Vertical					
4	4.3	SAM1245-02-ND	5.31	4.76	3.92
6	6.3	SAM1245-03-ND	5.52	4.94	4.07
8	8.3	SAM1245-04-ND	5.73	5.13	4.23
10	10.3	SAM1245-05-ND	5.94	5.32	4.38
12	12.3	SAM1245-06-ND	6.15	5.50	4.53
14	14.3	SAM1245-07-ND	6.36	5.69	4.69
16	16.3	SAM1245-08-ND	6.56	5.88	4.84
18	18.3	SAM1245-09-ND	6.77	6.07	5.00
20	20.3	SAM1245-10-ND	6.98	6.25	5.15
22	22.3	SAM1245-11-ND	7.19	6.44	5.30
24	24.3	SAM1245-12-ND	7.40	6.63	5.46
26	26.3	SAM1245-13-ND	7.61	6.81	5.61
Fig. 3 — Single Row, Right Angle					
2	4.3	SAM1248-02-ND	3.51	3.14	2.59
3	6.3	SAM1248-03-ND	3.64	3.26	2.69
4	8.3	SAM1248-04-ND	3.77	3.38	2.78
5	10.3	SAM1248-05-ND	3.90	3.50	2.88
6	12.3	SAM1248-06-ND	4.04	3.62	2.98
7	14.3	SAM1248-07-ND	4.17	3.74	3.08
8	16.3	SAM1248-08-ND	4.30	3.86	3.18
9	18.3	SAM1248-09-ND	4.44	3.97	3.27
10	20.3	SAM1248-10-ND	4.57	4.09	3.37
11	22.3	SAM1248-11-ND	4.70	4.21	3.47
12	24.3	SAM1248-12-ND	4.84	4.33	3.57
13	26.3	SAM1248-13-ND	4.97	4.45	3.67
Fig. 4 — Dual Row, Right Angle					
4	4.3	SAM1246-02-ND	5.48	4.91	4.04
6	6.3	SAM1246-03-ND	5.72	5.12	4.22
8	8.3	SAM1246-04-ND	5.96	5.33	4.39
10	10.3	SAM1246-05-ND	6.19	5.55	4.57
12	12.3	SAM1246-06-ND	6.43	5.76	4.74
14	14.3	SAM1246-07-ND	6.67	5.97	4.92
16	16.3	SAM1246-08-ND	6.91	6.18	5.09
18	18.3	SAM1246-09-ND	7.14	6.40	5.27
20	20.3	SAM1246-10-ND	7.38	6.61	5.44
22	22.3	SAM1246-11-ND	7.62	6.82	5.62
24	24.3	SAM1246-12-ND	7.86	7.03	5.79
26	26.3	SAM1246-13-ND	8.09	7.25	5.97

† More product available online. For pricing and availability, visit our website.

.0787” (2.00mm) Tiger Buy Sockets

SQW Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** 10μ” Gold on contact, Matte Tin on Tail • **Operating Temperature Range:** -55°C ~ 105°C • **Contact Resistance:** 10mΩ max. • **Mates with:** TMM Series

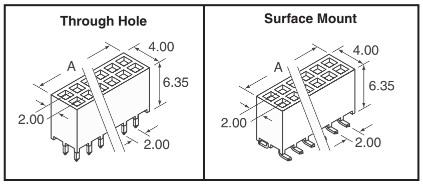

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
Through Hole					
4	4.3	SAM1249-02-ND	3.91	3.51	2.89
6	6.3	SAM1249-03-ND	4.07	3.64	3.00
8	8.3	SAM1249-04-ND	4.22	3.78	3.11
10	10.3	SAM1249-05-ND	4.37	3.91	3.22
12	12.3	SAM1249-06-ND	4.52	4.05	3.34
14	14.3	SAM1249-07-ND	4.67	4.19	3.45
16	16.3	SAM1249-08-ND	4.83	4.32	3.56
18	18.3	SAM1249-09-ND	4.98	4.46	3.67
20	20.3	SAM1249-10-ND	5.13	4.59	3.78
22	22.3	SAM1249-11-ND	5.28	4.73	3.90
24	24.3	SAM1249-12-ND	5.43	4.87	4.01
26	26.3	SAM1249-13-ND	5.59	5.00	4.12
Surface Mount					
4	4.3	SAM1250-02-ND	4.33	3.88	3.20
6	6.3	SAM1250-03-ND	4.52	4.05	3.34
8	8.3	SAM1250-04-ND	4.71	4.22	3.48
10	10.3	SAM1250-05-ND	4.90	4.39	3.62
12	12.3	SAM1250-06-ND	5.09	4.56	3.76
14	14.3	SAM1250-07-ND	5.28	4.73	3.90
16	16.3	SAM1250-08-ND	5.47	4.90	4.04
18	18.3	SAM1250-09-ND	5.66	5.07	4.18
20	20.3	SAM1250-10-ND	5.85	5.24	4.32
22	22.3	SAM1250-11-ND	6.04	5.41	4.46
24	24.3	SAM1250-12-ND	6.23	5.58	4.60
26	26.3	SAM1250-13-ND	6.42	5.75	4.74

† More product available online. For pricing and availability, visit our website.

.100” (2.54mm) Low Profile Socket Strips

SL and SDL Series

Specifications: • **Insulator Material:** Black Glass Filled Polyester • **Contact/Shell Material:** Beryllium Copper/Brass • **Operating Temperature Range:** -55°C ~ 125°C Gold, -55°C ~ 105°C Tin • Current Rating: 1A • **Contact Resistance:** 10mΩ max. • **Mates with:** TS, TD, BBS, BBL Series

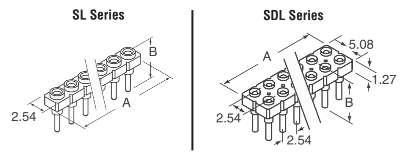

Lead Style	Dim. B
Low Profile (Hollow Leg)	5.84
Low Profile (Standard Mount)	6.10
Micro-Socket (Hollow Leg)	4.83

SL Series

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
30μ” Gold Contact, 10μ” Gold Shell					
Low Profile (Hollow Leg)					
1	2.54	SAM1102-01-ND	2.08	1.87	1.54
2	5.08	SAM1102-02-ND	2.20	1.97	1.63
3	7.62	SAM1102-03-ND	2.32	2.08	1.71
4	10.16	SAM1102-04-ND	2.44	2.19	1.80
5	12.70	SAM1102-05-ND	2.56	2.30	1.89
6	15.24	SAM1102-06-ND	2.68	2.40	1.98
7	17.78	SAM1102-07-ND	2.80	2.51	2.07
8	20.32	SAM1102-08-ND	2.92	2.62	2.16
9	22.86	SAM1102-09-ND	3.04	2.72	2.24
10	25.40	SAM1102-10-ND	3.16	2.83	2.33
11	27.94	SAM1102-11-ND	3.28	2.94	2.42
12	30.48	SAM1102-12-ND	3.40	3.05	2.51
Low Profile (Standard Mount)					
1	2.54	SAM1103-01-ND	2.05	1.84	1.52
2	5.08	SAM1103-02-ND	2.18	1.96	1.61
3	7.62	SAM1103-03-ND	2.31	2.07	1.71
4	10.16	SAM1103-04-ND	2.44	2.19	1.80
5	12.70	SAM1103-05-ND	2.57	2.30	1.90
6	15.24	SAM1103-06-ND	2.70	2.42	1.99
7	17.78	SAM1103-07-ND	2.83	2.54	2.09
8	20.32	SAM1103-08-ND	2.96	2.65	2.19
9	22.86	SAM1103-09-ND	3.09	2.77	2.28
10	25.40	SAM1103-10-ND	3.22	2.89	2.38
11	27.94	SAM1103-11-ND	3.35	3.00	2.47
12	30.48	SAM1103-12-ND	3.48	3.12	2.57
Micro-Socket (Hollow Leg)					
1	2.54	SAM1104-01-ND	2.51	2.25	1.85
2	5.08	SAM1104-02-ND	2.66	2.38	1.96
3	7.62	SAM1104-03-ND	2.81	2.52	2.08
4	10.16	SAM1104-04-ND	2.96	2.65	2.19
5	12.70	SAM1104-05-ND	3.11	2.79	2.30
6	15.24	SAM1104-06-ND	3.26	2.92	2.41
7	17.78	SAM1104-07-ND	3.41	3.06	2.52
8	20.32	SAM1104-08-ND	3.56	3.19	2.63
9	22.86	SAM1104-09-ND	3.71	3.32	2.74
10	25.40	SAM1104-10-ND	3.86	3.46	2.85
11	27.94	SAM1104-11-ND	4.01	3.59	2.96
12	30.48	SAM1104-12-ND	4.16	3.73	3.07
30μ” Gold Contact, Tin Shell					
Low Profile (Hollow Leg)					
1	2.54	SAM1105-01-ND	1.62	1.45	1.20
2	5.08	SAM1105-02-ND	1.72	1.54	1.27
3	7.62	SAM1105-03-ND	1.82	1.63	1.35
4	10.16	SAM1105-04-ND	1.92	1.72	1.42
5	12.70	SAM1105-05-ND	2.02	1.81	1.49
6	15.24	SAM1105-06-ND	2.12	1.90	1.57
7	17.78	SAM1105-07-ND	2.22	1.99	1.64
8	20.32	SAM1105-08-ND	2.32	2.08	1.71
9	22.86	SAM1105-09-ND	2.42	2.17	1.79
10	25.40	SAM1105-10-ND	2.52	2.26	1.86
11	27.94	SAM1105-11-ND	2.62	2.35	1.94
12	30.48	SAM1105-12-ND	2.72	2.44	2.01
Low Profile (Standard Mount)					
1	2.54	SAM1106-01-ND	1.57	1.41	1.16
2	5.08	SAM1106-02-ND	1.68	1.51	1.24
3	7.62	SAM1106-03-ND	1.79	1.61	1.32
4	10.16	SAM1106-04-ND	1.90	1.70	1.40
5	12.70	SAM1106-05-ND	2.01	1.80	1.49
6	15.24	SAM1106-06-ND	2.12	1.90	1.57
7	17.78	SAM1106-07-ND	2.23	2.00	1.65
8	20.32	SAM1106-08-ND	2.34	2.10	1.73
9	22.86	SAM1106-09-ND	2.45	2.20	1.81
10	25.40	SAM1106-10-ND	2.56	2.30	1.89
11	27.94	SAM1106-11-ND	2.67	2.39	1.97
12	30.48	SAM1106-12-ND	2.78	2.49	2.05
Micro-Socket (Hollow Leg)					
1	2.54	SAM1107-01-ND	2.11	1.89	1.56
2	5.08	SAM1107-02-ND	2.23	2.00	1.65
3	7.62	SAM1107-03-ND	2.35	2.11	1.74
4	10.16	SAM1107-04-ND	2.47	2.21	1.82
5	12.70	SAM1107-05-ND	2.59	2.32	1.91
6	15.24	SAM1107-06-ND	2.71	2.43	2.00
7	17.78	SAM1107-07-ND	2.83	2.54	2.09
8	20.32	SAM1107-08-ND	2.95	2.64	2.18
9	22.86	SAM1107-09-ND	3.07	2.75	2.27
10	25.40	SAM1107-10-ND	3.19	2.86	2.36
11	27.94	SAM1107-11-ND	3.31	2.97	2.44
12	30.48	SAM1107-12-ND	3.43	3.07	2.53
Tin Contact and Shell					
Low Profile (Hollow Leg)					
1	2.54	SAM1108-01-ND	1.10	.99	.82
2	5.08	SAM1108-02-ND	1.16	1.04	.86
3	7.62	SAM1108-03-ND	1.22	1.10	.90
4	10.16	SAM1108-04-ND	1.28	1.15	.95
5	12.70	SAM1108-05-ND	1.34	1.20	.99
6	15.24	SAM1108-06-ND	1.40	1.26	1.04
7	17.78	SAM1108-07-ND	1.46	1.31	1.08
8	20.32	SAM1108-08-ND	1.52	1.36	1.12
9	22.86	SAM1108-09-ND	1.58	1.42	1.17
10	25.40	SAM1108-10-ND	1.64	1.47	1.21
11	27.94	SAM1108-11-ND	1.70	1.53	1.26
12	30.48	SAM1108-12-ND	1.76	1.58	1.30
Low Profile (Standard Mount)					
1	2.54	SAM1109-01-ND	.98	.88	.73
2	5.08	SAM1109-02-ND	1.05	.94	.78
3	7.62	SAM1109-03-ND	1.12	1.01	.83
4	10.16	SAM1109-04-ND	1.19	1.07	.88
5	12.70	SAM1109-05-ND	1.26	1.13	.93
6	15.24	SAM1109-06-ND	1.33	1.19	.98
7	17.78	SAM1109-07-ND	1.40	1.26	1.04
8	20.32	SAM1109-08-ND	1.47	1.32	1.09
9	22.86	SAM1109-09-ND	1.54	1.38	1.14
10	25.40	SAM1109-10-ND	1.61	1.45	1.19
11	27.94	SAM1109-11-ND	1.68	1.51	1.24
12	30.48	SAM1109-12-ND	1.75	1.57	1.29
Micro-Socket (Hollow Leg)					
1	2.54	SAM1110-01-ND	1.23	1.11	.91
2	5.08	SAM1110-02-ND	1.31	1.18	.97
3	7.62	SAM1110-03-ND	1.39	1.25	1.03
4	10.16	SAM1110-04-ND	1.47	1.32	1.09
5	12.70	SAM1110-05-ND	1.55	1.39	1.15
6	15.24	SAM1110-06-ND	1.63	1.46	1.21
7	17.78	SAM1110-07-ND	1.71	1.53	1.26
8	20.32	SAM1110-08-ND	1.79	1.61	1.32
9	22.86	SAM1110-09-ND	1.87	1.68	1.38
10	25.40	SAM1110-10-ND	1.95	1.75	1.44
11	27.94	SAM1110-11-ND	2.03	1.82	1.50
12	30.48	SAM1110-12-ND	2.11	1.89	1.56

† More product available online. For pricing and availability, visit our website.

SDL Series

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
30μ” Gold Contact, 10μ” Gold Shell					
Low Profile (Hollow Leg)					
2	2.54	SAM1133-01-ND	4.59	4.11	3.39
4	5.08	SAM1133-02-ND	4.83	4.33	3.56
6	7.62	SAM1133-03-ND	5.07	4.54	3.74
8	10.16	SAM1133-04-ND	5.31	4.76	3.92
10	12.70	SAM1133-05-ND	5.55	4.97	4.09
12	15.24	SAM1133-06-ND	5.79	5.19	4.27
14	17.78	SAM1133-07-ND	6.03	5.40	4.45
16	20.32	SAM1133-08-ND	6.27	5.61	4.62
18	22.86	SAM1133-09-ND	6.51	5.83	4.80
20	25.40	SAM1133-10-ND	6.75	6.04	4.98
22	27.94	SAM1133-11-ND	6.99	6.26	5.16
24	30.48	SAM1133-12-ND	7.23	6.47	5.33
Low Profile (Standard Mount)					
2	2.54	SAM1134-01-ND	4.89	4.38	3.61
4	5.08	SAM1134-02-ND	5.14	4.60	3.79
6	7.62	SAM1134-03-ND	5.39	4.83	3.98
8	10.16	SAM1134-04-ND	5.64	5.05	4.16
10	12.70	SAM1134-05-ND	5.89	5.27	4.34
12	15.24	SAM1134-06-ND	6.14	5.50	4.53
14	17.78	SAM1134-07-ND	6.39	5.72	4.71
16	20.32	SAM1134-08-ND	6.64	5.95	4.90
18	22.86	SAM1134-09-ND	6.89	6.17	5.08
20	25.40	SAM1134-10-ND	7.14	6.39	5.27
22	27.94	SAM1134-11-ND	7.39	6.62	5.45
24	30.48	SAM1134-12-ND	7.64	6.84	5.63
Micro-Socket (Hollow Leg)					
2	2.54	SAM1135-01-ND	5.57	4.99	4.11
4	5.08	SAM1135-02-ND	5.87	5.26	4.33
6	7.62	SAM1135-03-ND	6.17	5.53	4.55
8	10.16	SAM1135-04-ND	6.47	5.79	4.77
10	12.70	SAM1135-05-ND	6.77	6.06	4.99
12	15.24	SAM1135-06-ND	7.07	6.33	5.21
14	17.78	SAM1135-07-ND	7.37	6.60	5.44
16	20.32	SAM1135-08-ND	7.67	6.87	5.66
18	22.86	SAM1135-09-ND	7.97	7.14	5.88
20	25.40	SAM1135-10-ND	8.27	7.40	6.10
22	27.94	SAM1135-11-ND	8.57	7.67	6.32
24	30.48	SAM1135-12-ND	8.87	7.94	6.54
30μ” Gold Contact, Tin Shell					
Low Profile (Hollow Leg)					
2	2.54	SAM1136-01-ND	3.93	3.52	2.90
4	5.08	SAM1136-02-ND	4.12	3.69	3.04
6	7.62	SAM1136-03-ND	4.31	3.86	3.18
8	10.16	SAM1136-04-ND	4.50	4.03	3.32
10	12.70	SAM1136-05-ND	4.69	4.20	3.46
12	15.24	SAM1136-06-ND	4.88	4.37	3.60
14	17.78	SAM1136-07-ND	5.07	4.54	3.74
16	20.32	SAM1136-08-ND	5.26	4.71	3.88
18	22.86	SAM1136-09-ND	5.45	4.88	4.02
20	25.40	SAM1136-10-ND	5.64	5.05	4.16
22	27.94	SAM1136-11-ND	5.83	5.22	4.30
24	30.48	SAM1136-12-ND	6.02	5.39	4.44
Low Profile (Standard Mount)					
2	2.54	SAM1137-01-ND	4.14	3.71	3.06
4	5.08	SAM1137-02-ND	4.34	3.89	3.20
6	7.62	SAM1137-03-ND	4.54	4.07	3.35
8	10.16	SAM1137-04-ND	4.74	4.25	3.50
10	12.70	SAM1137-05-ND	4.94	4.42	3.64
12	15.24	SAM1137-06-ND	5.14	4.60	3.79
14	17.78	SAM1137-07-ND	5.34	4.78	3.94
16	20.32	SAM1137-08-ND	5.54	4.96	4.09
18	22.86	SAM1137-09-ND	5.74	5.14	4.23
20	25.40	SAM1137-10-ND	5.94	5.32	4.38
22	27.94	SAM1137-11-ND	6.14	5.50	4.53
24	30.48	SAM1137-12-ND	6.34	5.68	4.68
Micro-Socket (Hollow Leg)					
2	2.54	SAM1138-01-ND	4.71	4.22	3.48
4	5.08	SAM1138-02-ND	4.95	4.43	3.65
6	7.62	SAM1138-03-ND	5.19	4.65	3.83
8	10.16	SAM1138-04-ND	5.43	4.86	4.01
10	12.70	SAM1138-05-ND	5.67	5.08	4.18
12	15.24	SAM1138-06-ND	5.91	5.29	4.36
14	17.78	SAM1138-07-ND	6.15	5.51	4.54
16	20.32	SAM1138-08-ND	6.39	5.72	4.71
18	22.86	SAM1138-09-ND	6.63	5.94	4.89
20	25.40	SAM1138-10-ND	6.87	6.15	5.07
22	27.94	SAM1138-11-ND	7.11	6.37	5.24
24	30.48	SAM1138-12-ND	7.35	6.58	5.42
Tin Contact and Shell					
Low Profile (Hollow Leg)					
2	2.54	SAM1139-01-ND	2.47	2.21	1.82
4	5.08	SAM1139-02-ND	2.59	2.32	1.91
6	7.62	SAM1139-03-ND	2.71	2.43	2.00
8	10.16	SAM1139-04-ND	2.83	2.54	2.09
10	12.70	SAM1139-05-ND	2.95	2.64	2.18
12	15.24	SAM1139-06-ND	3.07	2.75	2.27
14	17.78	SAM1139-07-ND	3.19	2.86	2.36
16	20.32	SAM1139-08-ND	3.31	2.97	2.44
18	22.86	SAM1139-09-ND	3.43	3.07	2.53
20	25.40	SAM1139-10-ND	3.55	3.18	2.62
22	27.94	SAM1139-11-ND	3.67	3.29	2.71
24	30.48	SAM1139-12-ND	3.79	3.40	2.80

† More product available online.
For pricing and availability, visit our website.

(Continued)

.100" (2.54mm) Low Profile Socket Strips SL and SDL Series *(Cont.)*

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each		
			1	10	100
Low Profile (Standard Mount)					
2	2.54	SAM1140-01-ND	2.47	2.21	1.82
4	5.08	SAM1140-02-ND	2.60	2.33	1.92
6	7.62	SAM1140-03-ND	2.73	2.45	2.02
8	10.16	SAM1140-04-ND	2.86	2.56	2.11
10	12.70	SAM1140-05-ND	2.99	2.68	2.21
12	15.24	SAM1140-06-ND	3.12	2.80	2.30
14	17.78	SAM1140-07-ND	3.25	2.91	2.40
16	20.32	SAM1140-08-ND	3.38	3.03	2.50
18	22.86	SAM1140-09-ND	3.51	3.15	2.59
20	25.40	SAM1140-10-ND	3.64	3.26	2.69
22	27.94	SAM1140-11-ND	3.77	3.38	2.78
24	30.48	SAM1140-12-ND	3.90	3.49	2.88
Micro-Socket (Hollow Leg)					
2	2.54	SAM1141-01-ND	3.00	2.69	2.22
4	5.08	SAM1141-02-ND	3.15	2.82	2.33
6	7.62	SAM1141-03-ND	3.30	2.96	2.44
8	10.16	SAM1141-04-ND	3.45	3.09	2.55
10	12.70	SAM1141-05-ND	3.60	3.23	2.66
12	15.24	SAM1141-06-ND	3.75	3.36	2.77
14	17.78	SAM1141-07-ND	3.90	3.49	2.88
16	20.32	SAM1141-08-ND	4.05	3.63	2.99
18	22.86	SAM1141-09-ND	4.20	3.76	3.10
20	25.40	SAM1141-10-ND	4.35	3.90	3.21
22	27.94	SAM1141-11-ND	4.50	4.03	3.32
24	30.48	SAM1141-12-ND	4.65	4.17	3.43

† More product available online. For pricing and availability, visit our website.

.100" (2.54mm) Terminal Strips TS and TD Series

Specifications: • **Insulator Material:** Black Glass Filled Polyester • **Terminal Material:** Brass (Gold plated are Phosphor Bronze) • **Operating Temperature Range:** -55°C ~ 125°C Gold, -55°C ~ 105°C Tin • Current Rating: 1A • **Mates with:** SS, SD, SL, SDL Series

Fig. 1

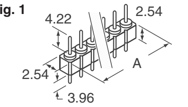

Fig. 2

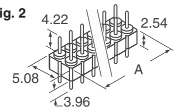

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each		
			1	10	100
Fig. 1 — Single Row					
20µ" (.51µm") Gold Plating					
1	2.54	SAM1111-01-ND	1.93	1.73	1.43
2	5.08	SAM1111-02-ND	2.04	1.83	1.51
3	7.62	SAM1111-03-ND	2.15	1.93	1.59
4	10.16	SAM1111-04-ND	2.26	2.03	1.67
5	12.70	SAM1111-05-ND	2.37	2.13	1.75
6	15.24	SAM1111-06-ND	2.48	2.22	1.83
7	17.78	SAM1111-07-ND	2.59	2.32	1.91
8	20.32	SAM1111-08-ND	2.70	2.42	1.99
9	22.86	SAM1111-09-ND	2.81	2.52	2.08
10	25.40	SAM1111-10-ND	2.92	2.62	2.16
11	27.94	SAM1111-11-ND	3.03	2.72	2.24
12	30.48	SAM1111-12-ND	3.14	2.81	2.32
Tin Plating					
1	2.54	SAM1112-01-ND	1.31	1.18	.97
2	5.08	SAM1112-02-ND	1.38	1.24	1.02
3	7.62	SAM1112-03-ND	1.45	1.30	1.07
4	10.16	SAM1112-04-ND	1.52	1.36	1.12
5	12.70	SAM1112-05-ND	1.59	1.43	1.18
6	15.24	SAM1112-06-ND	1.66	1.49	1.23
7	17.78	SAM1112-07-ND	1.73	1.55	1.28
8	20.32	SAM1112-08-ND	1.80	1.62	1.33
9	22.86	SAM1112-09-ND	1.87	1.68	1.38
10	25.40	SAM1112-10-ND	1.94	1.74	1.43
11	27.94	SAM1112-11-ND	2.01	1.80	1.49
12	30.48	SAM1112-12-ND	2.08	1.87	1.54
Fig. 2 — Dual Row					
20µ" (.51µm") Gold Plating					
2	2.54	SAM1113-01-ND	4.10	3.67	3.03
4	5.08	SAM1113-02-ND	4.35	3.90	3.21
6	7.62	SAM1113-03-ND	4.60	4.12	3.39
8	10.16	SAM1113-04-ND	4.85	4.34	3.58
10	12.70	SAM1113-05-ND	5.10	4.57	3.76
12	15.24	SAM1113-06-ND	5.35	4.79	3.95
14	17.78	SAM1113-07-ND	5.60	5.02	4.13
16	20.32	SAM1113-08-ND	5.85	5.24	4.32
18	22.86	SAM1113-09-ND	6.10	5.46	4.50
20	25.40	SAM1113-10-ND	6.35	5.69	4.68
22	27.94	SAM1113-11-ND	6.60	5.91	4.87
24	30.48	SAM1113-12-ND	6.85	6.13	5.05
Tin Plating					
2	2.54	SAM1114-01-ND	2.76	2.47	2.04
4	5.08	SAM1114-02-ND	2.92	2.62	2.16
6	7.62	SAM1114-03-ND	3.08	2.76	2.27
8	10.16	SAM1114-04-ND	3.24	2.90	2.39
10	12.70	SAM1114-05-ND	3.40	3.05	2.51
12	15.24	SAM1114-06-ND	3.56	3.19	2.63
14	17.78	SAM1114-07-ND	3.72	3.33	2.75
16	20.32	SAM1114-08-ND	3.88	3.48	2.86
18	22.86	SAM1114-09-ND	4.04	3.62	2.98
20	25.40	SAM1114-10-ND	4.20	3.76	3.10
22	27.94	SAM1114-11-ND	4.36	3.91	3.22
24	30.48	SAM1114-12-ND	4.52	4.05	3.34

† More product available online. For pricing and availability, visit our website.

.100" (2.54mm) Interconnect Strips

BBS and BBL Series

Specifications: • **Insulator Material:** Black Glass Filled Polyester • **Terminal Material:** Brass or Phosphor Bronze • **Operating Temperature Range:** -55°C ~ 125°C • **Current Rating**: 1A • **Mates with:** SS, SD, SL, SDL, ESS Series

Fig. 1

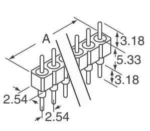

Fig. 2

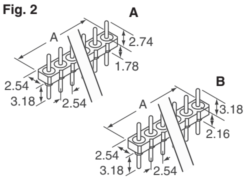

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each		
			1	10	100
Fig. 1 — Standard Single Row					
20µ" (0.51µm) Gold Plating					
1	2.54	SAM1004-01-ND	2.85	2.55	2.10
2	5.08	SAM1004-02-ND	3.02	2.71	2.23
3	7.62	SAM1004-03-ND	3.19	2.86	2.36
4	10.16	SAM1004-04-ND	3.36	3.01	2.48
5	12.70	SAM1004-05-ND	3.53	3.16	2.61
6	15.24	SAM1004-06-ND	3.70	3.32	2.73
7	17.78	SAM1004-07-ND	3.87	3.47	2.86
8	20.32	SAM1004-08-ND	4.04	3.62	2.98
9	22.86	SAM1004-09-ND	4.21	3.77	3.11
10	25.40	SAM1004-10-ND	4.38	3.92	3.23
11	27.94	SAM1004-11-ND	4.55	4.08	3.36
12	30.48	SAM1004-12-ND	4.72	4.23	3.48
Tin Plating					
1	2.54	SAM1005-01-ND	1.56	1.40	1.15
2	5.08	SAM1005-02-ND	1.66	1.49	1.23
3	7.62	SAM1005-03-ND	1.76	1.58	1.30
4	10.16	SAM1005-04-ND	1.86	1.67	1.38
5	12.70	SAM1005-05-ND	1.96	1.76	1.45
6	15.24	SAM1005-06-ND	2.06	1.85	1.52
7	17.78	SAM1005-07-ND	2.16	1.94	1.60
8	20.32	SAM1005-08-ND	2.26	2.03	1.67
9	22.86	SAM1005-09-ND	2.36	2.12	1.74
10	25.40	SAM1005-10-ND	2.46	2.21	1.82
11	27.94	SAM1005-11-ND	2.56	2.30	1.89
12	30.48	SAM1005-12-ND	2.66	2.38	1.96
Fig. 2A — Low Profile Single Row					
20µ" (0.51µm) Gold Plating					
1	2.54	SAM1000-01-ND	2.85	2.55	2.10
2	5.08	SAM1000-02-ND	3.02	2.71	2.23
3	7.62	SAM1000-03-ND	3.19	2.86	2.36
4	10.16	SAM1000-04-ND	3.36	3.01	2.48
5	12.70	SAM1000-05-ND	3.53	3.16	2.61
6	15.24	SAM1000-06-ND	3.70	3.32	2.73
7	17.78	SAM1000-07-ND	3.87	3.47	2.86
8	20.32	SAM1000-08-ND	4.04	3.62	2.98
9	22.86	SAM1000-09-ND	4.21	3.77	3.11
10	25.40	SAM1000-10-ND	4.38	3.92	3.23
11	27.94	SAM1000-11-ND	4.55	4.08	3.36
12	30.48	SAM1000-12-ND	4.72	4.23	3.48
Tin Plating					
1	2.54	SAM1002-01-ND	1.59	1.43	1.18
2	5.08	SAM1002-02-ND	1.69	1.52	1.25
3	7.62	SAM1002-03-ND	1.79	1.61	1.32
4	10.16	SAM1002-04-ND	1.89	1.70	1.40
5	12.70	SAM1002-05-ND	1.99	1.79	1.47
6	15.24	SAM1002-06-ND	2.09	1.87	1.54
7	17.78	SAM1002-07-ND	2.19	1.96	1.62
8	20.32	SAM1002-08-ND	2.29	2.05	1.69
9	22.86	SAM1002-09-ND	2.39	2.14	1.77
10	25.40	SAM1002-10-ND	2.49	2.23	1.84
11	27.94	SAM1002-11-ND	2.59	2.32	1.91
12	30.48	SAM1002-12-ND	2.69	2.41	1.99
Fig. 2B — Low Profile Single Row					
20µ" (0.51µm) Gold Plating					
1	2.54	SAM1001-01-ND	2.88	2.58	2.13
2	5.08	SAM1001-02-ND	3.06	2.74	2.26
3	7.62	SAM1001-03-ND	3.24	2.90	2.39
4	10.16	SAM1001-04-ND	3.42	3.06	2.52
5	12.70	SAM1001-05-ND	3.60	3.23	2.66
6	15.24	SAM1001-06-ND	3.78	3.39	2.79
7	17.78	SAM1001-07-ND	3.96	3.55	2.92
8	20.32	SAM1001-08-ND	4.14	3.71	3.06
9	22.86	SAM1001-09-ND	4.32	3.87	3.19
10	25.40	SAM1001-10-ND	4.50	4.03	3.32
11	27.94	SAM1001-11-ND	4.68	4.19	3.45
12	30.48	SAM1001-12-ND	4.86	4.35	3.59
Tin Plating					
1	2.54	SAM1003-01-ND	1.72	1.54	1.27
2	5.08	SAM1003-02-ND	1.82	1.63	1.35
3	7.62	SAM1003-03-ND	1.92	1.72	1.42
4	10.16	SAM1003-04-ND	2.02	1.81	1.49
5	12.70	SAM1003-05-ND	2.12	1.90	1.57
6	15.24	SAM1003-06-ND	2.22	1.99	1.64
7	17.78	SAM1003-07-ND	2.32	2.08	1.71
8	20.32	SAM1003-08-ND	2.42	2.17	1.79
9	22.86	SAM1003-09-ND	2.52	2.26	1.86
10	25.40	SAM1003-10-ND	2.62	2.35	1.94
11	27.94	SAM1003-11-ND	2.72	2.44	2.01
12	30.48	SAM1003-12-ND	2.82	2.53	2.08

† More product available online. For pricing and availability, visit our website.

.100" (2.54mm) Low Cost Socket Strips

SSA and SSK Series

Specifications: • **Insulator Material:** Black PET Polyester • **Contact Material:** Phosphor Bronze • **Flammability Rating:** UL94V-0 **Insulation Resistance:** 5000MΩ min. • **Operating Temperature Range:** -55°C ~ 125°C with Gold -55°C ~ 105°C with Tin • **Current Rating:** 1A • **Mates with:** TS, BBS, BBL Series

Fig. 1

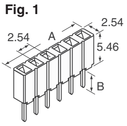

Fig. 2

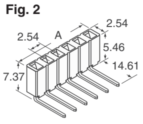

Fig. 3

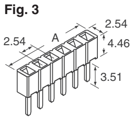

SSA Series

No. of Pos.	Dim. (mm)		Digi-Key Part No.†	Price Each		
	A	B		1	10	100
10µ" (.25µm) Gold Plating						
Fig. 1 — Vertical PC Mount						
1	2.54	3.84	SAM1121-01-ND	1.32	1.19	.98
2	5.08		SAM1121-02-ND	1.40	1.26	1.04
3	7.62		SAM1121-03-ND	1.48	1.33	1.10
4	10.16		SAM1121-04-ND	1.56	1.40	1.15
5	12.70		SAM1121-05-ND	1.64	1.47	1.21
6	15.24	3.84	SAM1121-06-ND	1.72	1.54	1.27
7	17.78		SAM1121-07-ND	1.80	1.62	1.33
8	20.32		SAM1121-08-ND	1.88	1.69	1.39
9	22.86		SAM1121-09-ND	1.96	1.76	1.45
10	25.40		SAM1121-10-ND	2.04	1.83	1.51
11	27.94	3.84	SAM1121-11-ND	2.12	1.90	1.57
12	30.48		SAM1121-12-ND	2.20	1.97	1.63
Fig. 1 — Vertical Wire Wrap						
1	2.54	16.89	SAM1123-01-ND	1.99	1.79	1.47
2	5.08		SAM1123-02-ND	2.11	1.89	1.56
3	7.62		SAM1123-03-ND	2.23	2.00	1.65
4	10.16		SAM1123-04-ND	2.35	2.11	1.74
5	12.70		SAM1123-05-ND	2.47	2.21	1.82
6	15.24	16.89	SAM1123-06-ND	2.59	2.32	1.91
7	17.78		SAM1123-07-ND	2.71	2.43	2.00
8	20.32		SAM1123-08-ND	2.83	2.54	2.09
9	22.86		SAM1123-09-ND	2.95	2.64	2.18
10	25.40		SAM1123-10-ND	3.07	2.75	2.27
11	27.94	16.89	SAM1123-11-ND	3.19	2.86	2.36
12	30.48		SAM1123-12-ND	3.31	2.97	2.44
Fig. 2 — Right Angle Wire Wrap						
1	2.54	—	SAM1124-01-ND	2.26	2.03	1.67
2	5.08		SAM1124-02-ND	2.39	2.14	1.77
3	7.62		SAM1124-03-ND	2.52	2.26	1.86
4	10.16		SAM1124-04-ND	2.65	2.38	1.96
5	12.70		SAM1124-05-ND	2.78	2.49	2.05
6	15.24	—	SAM1124-06-ND	2.91	2.61	2.15
7	17.78		SAM1124-07-ND	3.04	2.72	2.24
8	20.32		SAM1124-08-ND	3.17	2.84	2.34
9	22.86		SAM1124-09-ND	3.30	2.96	2.44
10	25.40		SAM1124-10-ND	3.43	3.07	2.53
11	27.94	—	SAM1124-11-ND	3.56	3.19	2.63
12	30.48		SAM1124-12-ND	3.69	3.31	2.72
Tin Plating						
Fig. 1 — Vertical PC Mount						
1	2.54	3.84	SAM1122-01-ND	.96	.86	.71
2	5.08		SAM1122-02-ND	1.01	.91	.75
3	7.62		SAM1122-03-ND	1.06	.95	.79
4	10.16		SAM1122-04-ND	1.11	1.00	.82
5	12.70		SAM1122-05-ND	1.16	1.04	.86
6	15.24	3.84	SAM1122-06-ND	1.21	1.09	.90
7	17.78		SAM1122-07-ND	1.26	1.13	.93
8	20.32		SAM1122-08-ND	1.31	1.18	.97
9	22.86		SAM1122-09-ND	1.36	1.22	1.01
10	25.40		SAM1122-10-ND	1.41	1.27	1.04
11	27.94	3.84	SAM1122-11-ND	1.46	1.31	1.08
12	30.48		SAM1122-12-ND	1.51	1.36	1.12
Fig. 1 — Vertical Wire Wrap						
1	2.54	16.89	SAM1125-01-ND	1.11	1.00	.82
2	5.08		SAM1125-02-ND	1.19	1.07	.88
3	7.62		SAM1125-03-ND	1.27	1.14	.94
4	10.16		SAM1125-04-ND	1.35	1.21	1.00
5	12.70		SAM1125-05-ND	1.43	1.28	1.06
6	15.24	16.89	SAM1125-06-ND	1.51	1.36	1.12
7	17.78		SAM1125-07-ND	1.59	1.43	1.18
8	20.32		SAM1125-08-ND	1.67	1.50	1.24
9	22.86		SAM1125-09-ND	1.75	1.57	1.29
10	25.40		SAM1125-10-ND	1.83	1.64	1.35
11	27.94	16.89	SAM1125-11-ND	1.91	1.71	1.41
12	30.48		SAM1125-12-ND	1.99	1.79	1.47
Fig. 2 — Right Angle Wire Wrap						
1	2.54	—	SAM1126-01-ND	1.47	1.32	1.09
2	5.08		SAM1126-02-ND	1.55	1.39	1.15
3	7.62		SAM1126-03-ND	1.63	1.46	1.21
4	10.16		SAM1126-04-ND	1.71	1.53	1.26
5	12.70		SAM1126-05-ND	1.79	1.61	1.32
6	15.24	—	SAM1126-06-ND	1.87	1.68	1.38
7	17.78		SAM1126-07-ND	1.95	1.75	1.44
8	20.32		SAM1126-08-ND	2.03	1.82	1.50
9	22.86		SAM1126-09-ND	2.11	1.89	1.56
10	25.40		SAM1126-10-ND	2.19	1.96	1.62
11	27.94	—	SAM1126-11-ND	2.27	2.04	1.68
12	30.48		SAM1126-12-ND	2.35	2.11	1.74

SSK Series

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each		
			1	10	100
10µ" (.25µm) Gold Contact, Tin on Tail					
Fig. 3 — Vertical PC Mount					
1	2.54	SAM1127-01-ND	1.39	1.25	1.03
2	5.08	SAM1127-02-ND	1.46	1.31	1.08

† More product available online.
For pricing and availability, visit our website.

(Continued)

samtec

.100” (2.54mm) Low Cost Socket Strips SSA and SSK Series *(Cont.)*

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
3	7.62	SAM1127-03-ND	1.53	1.37	1.13
4	10.16	SAM1127-04-ND	1.60	1.44	1.18
5	12.70	SAM1127-05-ND	1.67	1.50	1.24
6	15.24	SAM1127-06-ND	1.74	1.56	1.29
7	17.78	SAM1127-07-ND	1.81	1.62	1.34
8	20.32	SAM1127-08-ND	1.88	1.69	1.39
9	22.86	SAM1127-09-ND	1.95	1.75	1.44
10	25.40	SAM1127-10-ND	2.02	1.81	1.49
11	27.94	SAM1127-11-ND	2.09	1.87	1.54
12	30.48	SAM1127-12-ND	2.16	1.94	1.60
Tin Plating					
Fig. 3 — Vertical PC Mount					
1	2.54	SAM1128-01-ND	.70	.63	.52
2	5.08	SAM1128-02-ND	.75	.68	.56
3	7.62	SAM1128-03-ND	.80	.72	.59
4	10.16	SAM1128-04-ND	.85	.77	.63
5	12.70	SAM1128-05-ND	.90	.81	.67
6	15.24	SAM1128-06-ND	.95	.85	.70
7	17.78	SAM1128-07-ND	1.00	.90	.74
8	20.32	SAM1128-08-ND	1.05	.94	.78
9	22.86	SAM1128-09-ND	1.10	.99	.82
10	25.40	SAM1128-10-ND	1.15	1.03	.85
11	27.94	SAM1128-11-ND	1.20	1.08	.89
12	30.48	SAM1128-12-ND	1.25	1.12	.93

† More product available online. For pricing and availability, visit our website.

.100” (2.54mm) Single Row Socket Strips SS Series

Specifications: • **Insulator Material:** Black Glass Filled Polyester • **Contact/Shell Material:** Beryllium Copper/Brass • **Current Rating:** 1A • **Operating Temperature Range:** -55°C ~ 125°C • **Contact Resistance:** 10mΩ max. • **Mates with:** TS, TD, BBS, BBL Series

Fig. 1

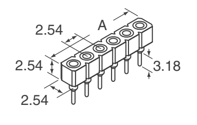

Fig. 2

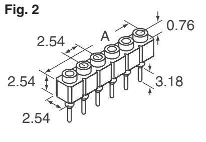

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
30µ” Gold Contact, 10µ” Gold Shell					
Fig. 1 — Standard					
1	2.54	SAM1115-01-ND	1.56	1.40	1.15
2	5.08	SAM1115-02-ND	1.66	1.49	1.23
3	7.62	SAM1115-03-ND	1.76	1.58	1.30
4	10.16	SAM1115-04-ND	1.86	1.67	1.38
5	12.70	SAM1115-05-ND	1.96	1.76	1.45
6	15.24	SAM1115-06-ND	2.06	1.85	1.52
7	17.78	SAM1115-07-ND	2.16	1.94	1.60
8	20.32	SAM1115-08-ND	2.26	2.03	1.67
9	22.86	SAM1115-09-ND	2.36	2.12	1.74
10	25.40	SAM1115-10-ND	2.46	2.21	1.82
11	27.94	SAM1115-11-ND	2.56	2.30	1.89
12	30.48	SAM1115-12-ND	2.66	2.38	1.96
Fig. 2 — Non-Flush Option					
1	2.54	SAM1116-01-ND	1.56	1.40	1.15
2	5.08	SAM1116-02-ND	1.66	1.49	1.23
3	7.62	SAM1116-03-ND	1.76	1.58	1.30
4	10.16	SAM1116-04-ND	1.86	1.67	1.38
5	12.70	SAM1116-05-ND	1.96	1.76	1.45
6	15.24	SAM1116-06-ND	2.06	1.85	1.52
7	17.78	SAM1116-07-ND	2.16	1.94	1.60
8	20.32	SAM1116-08-ND	2.26	2.03	1.67
9	22.86	SAM1116-09-ND	2.36	2.12	1.74
10	25.40	SAM1116-10-ND	2.46	2.21	1.82
11	27.94	SAM1116-11-ND	2.56	2.30	1.89
12	30.48	SAM1116-12-ND	2.66	2.38	1.96
30µ” Gold Contact, Tin Shell					
Fig. 1 — Standard					
1	2.54	SAM1117-01-ND	1.35	1.21	1.00
2	5.08	SAM1117-02-ND	1.42	1.28	1.05
3	7.62	SAM1117-03-ND	1.49	1.34	1.10
4	10.16	SAM1117-04-ND	1.56	1.40	1.15
5	12.70	SAM1117-05-ND	1.63	1.46	1.21
6	15.24	SAM1117-06-ND	1.70	1.53	1.26
7	17.78	SAM1117-07-ND	1.77	1.59	1.31
8	20.32	SAM1117-08-ND	1.84	1.65	1.36
9	22.86	SAM1117-09-ND	1.91	1.71	1.41
10	25.40	SAM1117-10-ND	1.98	1.78	1.46
11	27.94	SAM1117-11-ND	2.05	1.84	1.52
12	30.48	SAM1117-12-ND	2.12	1.90	1.57
Fig. 2 — Non-Flush Option					
1	2.54	SAM1118-01-ND	1.35	1.21	1.00
2	5.08	SAM1118-02-ND	1.42	1.28	1.05
3	7.62	SAM1118-03-ND	1.49	1.34	1.10
4	10.16	SAM1118-04-ND	1.56	1.40	1.15
5	12.70	SAM1118-05-ND	1.63	1.46	1.21
6	15.24	SAM1118-06-ND	1.70	1.53	1.26
7	17.78	SAM1118-07-ND	1.77	1.59	1.31
8	20.32	SAM1118-08-ND	1.84	1.65	1.36
9	22.86	SAM1118-09-ND	1.91	1.71	1.41
10	25.40	SAM1118-10-ND	1.98	1.78	1.46
11	27.94	SAM1118-11-ND	2.05	1.84	1.52
12	30.48	SAM1118-12-ND	2.12	1.90	1.57
Tin Contact and Shell					
Fig. 1 — Standard					
1	2.54	SAM1119-01-ND	.67	.60	.50
2	5.08	SAM1119-02-ND	.72	.65	.54
3	7.62	SAM1119-03-ND	.77	.69	.57
4	10.16	SAM1119-04-ND	.82	.74	.61
5	12.70	SAM1119-05-ND	.87	.78	.65
6	15.24	SAM1119-06-ND	.92	.83	.68
7	17.78	SAM1119-07-ND	.97	.87	.72
8	20.32	SAM1119-08-ND	1.02	.92	.76
9	22.86	SAM1119-09-ND	1.07	.96	.79
10	25.40	SAM1119-10-ND	1.12	1.01	.83
11	27.94	SAM1119-11-ND	1.17	1.05	.87
12	30.48	SAM1119-12-ND	1.22	1.10	.90
Fig. 2 — Non-Flush Option					
1	2.54	SAM1120-01-ND	.67	.60	.50
2	5.08	SAM1120-02-ND	.72	.65	.54
3	7.62	SAM1120-03-ND	.77	.69	.57
4	10.16	SAM1120-04-ND	.82	.74	.61
5	12.70	SAM1120-05-ND	.87	.78	.65
6	15.24	SAM1120-06-ND	.92	.83	.68
7	17.78	SAM1120-07-ND	.97	.87	.72
8	20.32	SAM1120-08-ND	1.02	.92	.76
9	22.86	SAM1120-09-ND	1.07	.96	.79
10	25.40	SAM1120-10-ND	1.12	1.01	.83
11	27.94	SAM1120-11-ND	1.17	1.05	.87
12	30.48	SAM1120-12-ND	1.22	1.10	.90

† More product available online. For pricing and availability, visit our website.

.100” (2.54mm) Low Profile Socket Strips SLW Series

Specifications: • **Insulator Material:** Black Glass Filled Polyester • **Contact Material:** Phosphor Bronze • **Current Rating:** 3A • **Operating Temperature Range:** -55°C ~ 125°C Gold, -55°C ~ 105°C Tin • **Contact Resistance:** 10mΩ max. • **Mates with:** TLW, TSW Series

Fig. 1

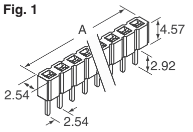

Fig. 2

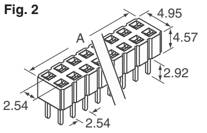

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
Fig. 1 — Single Row					
20µ” Gold Contact, Gold Flash on Balance					
1	2.54	SAM1089-01-ND	1.90	1.70	1.40
2	5.08	SAM1089-02-ND	1.97	1.77	1.46
3	7.62	SAM1089-03-ND	2.04	1.83	1.51
4	10.16	SAM1089-04-ND	2.11	1.89	1.56
5	12.70	SAM1089-05-ND	2.18	1.96	1.61
6	15.24	SAM1089-06-ND	2.25	2.02	1.66
7	17.78	SAM1089-07-ND	2.32	2.08	1.71
8	20.32	SAM1089-08-ND	2.39	2.14	1.77
9	22.86	SAM1089-09-ND	2.46	2.21	1.82
10	25.40	SAM1089-10-ND	2.53	2.27	1.87
11	27.94	SAM1089-11-ND	2.60	2.33	1.92
12	30.48	SAM1089-12-ND	2.67	2.39	1.97
30µ” Gold Contact, Matte Tin Tail					
1	2.54	SAM1091-01-ND	1.90	1.70	1.40
2	5.08	SAM1091-02-ND	1.97	1.77	1.46
3	7.62	SAM1091-03-ND	2.04	1.83	1.51
4	10.16	SAM1091-04-ND	2.11	1.89	1.56
5	12.70	SAM1091-05-ND	2.18	1.96	1.61
6	15.24	SAM1091-06-ND	2.25	2.02	1.66
7	17.78	SAM1091-07-ND	2.32	2.08	1.71
8	20.32	SAM1091-08-ND	2.39	2.14	1.77
9	22.86	SAM1091-09-ND	2.46	2.21	1.82
10	25.40	SAM1091-10-ND	2.53	2.27	1.87
11	27.94	SAM1091-11-ND	2.60	2.33	1.92
12	30.48	SAM1091-12-ND	2.67	2.39	1.97
Matte Tin					
1	2.54	SAM1093-01-ND	1.47	1.32	1.09
2	5.08	SAM1093-02-ND	1.52	1.36	1.12
3	7.62	SAM1093-03-ND	1.57	1.41	1.16
4	10.16	SAM1093-04-ND	1.62	1.45	1.20
5	12.70	SAM1093-05-ND	1.67	1.50	1.24
6	15.24	SAM1093-06-ND	1.72	1.54	1.27
7	17.78	SAM1093-07-ND	1.77	1.59	1.31
8	20.32	SAM1093-08-ND	1.82	1.63	1.35
9	22.86	SAM1093-09-ND	1.87	1.68	1.38
10	25.40	SAM1093-10-ND	1.92	1.72	1.42
11	27.94	SAM1093-11-ND	1.97	1.77	1.46
12	30.48	SAM1093-12-ND	2.02	1.81	1.49
Fig. 2 — Dual Row					
20µ” Gold Contact, Gold Flash on Balance					
2	2.54	SAM1088-01-ND	3.76	3.37	2.78
4	5.08	SAM1088-02-ND	3.90	3.49	2.88
6	7.62	SAM1088-03-ND	4.04	3.62	2.98
8	10.16	SAM1088-04-ND	4.18	3.74	3.08
10	12.70	SAM1088-05-ND	4.32	3.87	3.19
12	15.24	SAM1088-06-ND	4.46	4.00	3.29
14	17.78	SAM1088-07-ND	4.60	4.12	3.39
16	20.32	SAM1088-08-ND	4.74	4.25	3.50
18	22.86	SAM1088-09-ND	4.88	4.37	3.60
20	25.40	SAM1088-10-ND	5.02	4.50	3.70
22	27.94	SAM1088-11-ND	5.16	4.62	3.81
24	30.48	SAM1088-12-ND	5.30	4.75	3.91
30µ” Gold Contact, Matte Tin Tail					
2	2.54	SAM1090-01-ND	3.76	3.37	2.78
4	5.08	SAM1090-02-ND	3.90	3.49	2.88
6	7.62	SAM1090-03-ND	4.04	3.62	2.98
8	10.16	SAM1090-04-ND	4.18	3.74	3.08
10	12.70	SAM1090-05-ND	4.32	3.87	3.19
12	15.24	SAM1090-06-ND	4.46	4.00	3.29
14	17.78	SAM1090-07-ND	4.60	4.12	3.39
16	20.32	SAM1090-08-ND	4.74	4.25	3.50
18	22.86	SAM1090-09-ND	4.88	4.37	3.60
20	25.40	SAM1090-10-ND	5.02	4.50	3.70
22	27.94	SAM1090-11-ND	5.16	4.62	3.81
24	30.48	SAM1090-12-ND	5.30	4.75	3.91
Matte Tin					
2	2.54	SAM1092-01-ND	2.43	2.18	1.80
4	5.08	SAM1092-02-ND	2.54	2.28	1.88
6	7.62	SAM1092-03-ND	2.65	2.38	1.96
8	10.16	SAM1092-04-ND	2.76	2.47	2.04
10	12.70	SAM1092-05-ND	2.87	2.57	2.12
12	15.24	SAM1092-06-ND	2.98	2.67	2.20
14	17.78	SAM1092-07-ND	3.09	2.77	2.28
16	20.32	SAM1092-08-ND	3.20	2.87	2.36
18	22.86	SAM1092-09-ND	3.31	2.97	2.44
20	25.40	SAM1092-10-ND	3.42	3.06	2.52
22	27.94	SAM1092-11-ND	3.53	3.16	2.61
24	30.48	SAM1092-12-ND	3.64	3.26	2.69

† More product available online. For pricing and availability, visit our website.

.100” (2.54mm) Low Profile Headers

TLW Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Terminal Material:** Phosphor Bronze • **Current Rating:** 3A • **Operating Temperature Range:** -55°C ~ 125°C Gold, -55°C ~ 105°C Tin • **Mates with:** SLW, CES Series

Fig. 1

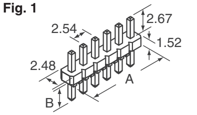

Fig. 2

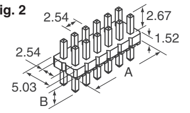

No. of Pos.	Dim. (mm) A	B	Digi-Key Part No.†	Price Each 1	10	100
Fig. 1 — Single Row						
10µ” Gold Post, Gold Flash on Tail						
1	2.54	3.43 4.32	SAM1100-01-ND SAM1098-01-ND	1.85 1.85	1.66 1.66	1.37 1.37
2	5.08	3.43 4.32	SAM1100-02-ND SAM1098-02-ND	1.95 1.95	1.75 1.75	1.44 1.44
3	7.62	3.43 4.32	SAM1100-03-ND SAM1098-03-ND	2.05 2.05	1.84 1.84	1.52 1.52
4	10.16	3.43 4.32	SAM1100-04-ND SAM1098-04-ND	2.15 2.15	1.93 1.93	1.59 1.59
5	12.70	3.43 4.32	SAM1100-05-ND SAM1098-05-ND	2.25 2.25	2.02 2.02	1.66 1.66
6	15.24	3.43 4.32	SAM1100-06-ND SAM1098-06-ND	2.35 2.35	2.11 2.11	1.74 1.74
7	17.78	3.43 4.32	SAM1100-07-ND SAM1098-07-ND	2.45 2.45	2.20 2.20	1.81 1.81
8	20.32	3.43 4.32	SAM1100-08-ND SAM1098-08-ND	2.55 2.55	2.29 2.29	1.88 1.88
9	22.86	3.43 4.32	SAM1100-09-ND SAM1098-09-ND	2.65 2.65	2.38 2.38	1.96 1.96
10	25.40	3.43 4.32	SAM1100-10-ND SAM1098-10-ND	2.75 2.75	2.47 2.47	2.03 2.03
11	27.94	3.43 4.32	SAM1100-11-ND SAM1098-11-ND	2.85 2.85	2.55 2.55	2.10 2.10
12	30.48	3.43 4.32	SAM1100-12-ND SAM1098-12-ND	2.95 2.95	2.64 2.64	2.18 2.18
Matte Tin						
1	2.54	3.43 4.32	SAM1101-01-ND SAM1099-01-ND	1.47 1.47	1.32 1.32	1.09 1.09
2	5.08	3.43 4.32	SAM1101-02-ND SAM1099-02-ND	1.54 1.54	1.38 1.38	1.14 1.14
3	7.62	3.43 4.32	SAM1101-03-ND SAM1099-03-ND	1.61 1.61	1.45 1.45	1.19 1.19
4	10.16	3.43 4.32	SAM1101-04-ND SAM1099-04-ND	1.68 1.68	1.51 1.51	1.24 1.24
5	12.70	3.43 4.32	SAM1101-05-ND SAM1099-05-ND	1.75 1.75	1.57 1.57	1.29 1.29
6	15.24	3.43 4.32	SAM1101-06-ND SAM1099-06-ND	1.82 1.82	1.63 1.63	1.35 1.35
7	17.78	3.43 4.32	SAM1101-07-ND SAM1099-07-ND	1.89 1.89	1.70 1.70	1.40 1.40
8	20.32	3.43 4.32	SAM1101-08-ND SAM1099-08-ND	1.96 1.96	1.76 1.76	1.45 1.45
9	22.86	3.43 4.32	SAM1101-09-ND SAM1099-09-ND	2.03 2.03	1.82 1.82	1.50 1.50
10	25.40	3.43 4.32	SAM1101-10-ND SAM1099-10-ND	2.10 2.10	1.88 1.88	1.55 1.55
11	27.94	3.43 4.32	SAM1101-11-ND SAM1099-11-ND	2.17 2.17	1.95 1.95	1.60 1.60
12	30.48	3.43 4.32	SAM1101-12-ND SAM1099-12-ND	2.24 2.24	2.01 2.01	1.66 1.66
Fig. 2 — Dual Row						
10µ” Gold Post, Gold Flash on Tail						
2	2.54	3.43 4.32	SAM1096-01-ND SAM1094-01-ND	3.23 3.23	2.89 2.89	2.38 2.38
4	5.08	3.43 4.32	SAM1096-02-ND SAM1094-02-ND	3.39 3.39	3.04 3.04	2.50 2.50

† More product available online.
For pricing and availability, visit our website.

(Continued)

.100” (2.54mm) Low Profile Headers TLW Series *(Cont.)*

No. of Pos.	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.†	Price Each 1	10	100
6	7.62	3.43	SAM1096-03-ND	3.55	3.18	2.62
		4.32	SAM1094-03-ND	3.55	3.18	2.62
8	10.16	3.43	SAM1096-04-ND	3.71	3.32	2.74
		4.32	SAM1094-04-ND	3.71	3.32	2.74
10	12.70	3.43	SAM1096-05-ND	3.87	3.47	2.86
		4.32	SAM1094-05-ND	3.87	3.47	2.86
12	15.24	3.43	SAM1096-06-ND	4.03	3.61	2.97
		4.32	SAM1094-06-ND	4.03	3.61	2.97
14	17.78	3.43	SAM1096-07-ND	4.19	3.75	3.09
		4.32	SAM1094-07-ND	4.19	3.75	3.09
16	20.32	3.43	SAM1096-08-ND	4.35	3.90	3.21
		4.32	SAM1094-08-ND	4.35	3.90	3.21
18	22.86	3.43	SAM1096-09-ND	4.51	4.04	3.33
		4.32	SAM1094-09-ND	4.51	4.04	3.33
20	25.40	3.43	SAM1096-10-ND	4.67	4.18	3.45
		4.32	SAM1094-10-ND	4.67	4.18	3.45
22	27.94	3.43	SAM1096-11-ND	4.83	4.33	3.56
		4.32	SAM1094-11-ND	4.83	4.33	3.56
24	30.48	3.43	SAM1096-12-ND	4.99	4.47	3.68
		4.32	SAM1094-12-ND	4.99	4.47	3.68
Matte Tin						
2	2.54	3.43	SAM1097-01-ND	2.29	2.05	1.69
		4.32	SAM1095-01-ND	2.29	2.05	1.69
4	5.08	3.43	SAM1097-02-ND	2.41	2.16	1.78
		4.32	SAM1095-02-ND	2.41	2.16	1.78
6	7.62	3.43	SAM1097-03-ND	2.53	2.27	1.87
		4.32	SAM1095-03-ND	2.53	2.27	1.87
8	10.16	3.43	SAM1097-04-ND	2.65	2.38	1.96
		4.32	SAM1095-04-ND	2.65	2.38	1.96
10	12.70	3.43	SAM1097-05-ND	2.77	2.48	2.05
		4.32	SAM1095-05-ND	2.77	2.48	2.05
12	15.24	3.43	SAM1097-06-ND	2.89	2.59	2.13
		4.32	SAM1095-06-ND	2.89	2.59	2.13
14	17.78	3.43	SAM1097-07-ND	3.01	2.70	2.22
		4.32	SAM1095-07-ND	3.01	2.70	2.22
16	20.32	3.43	SAM1097-08-ND	3.13	2.81	2.31
		4.32	SAM1095-08-ND	3.13	2.81	2.31
18	22.86	3.43	SAM1097-09-ND	3.25	2.91	2.40
		4.32	SAM1095-09-ND	3.25	2.91	2.40
20	25.40	3.43	SAM1097-10-ND	3.37	3.02	2.49
		4.32	SAM1095-10-ND	3.37	3.02	2.49
22	27.94	3.43	SAM1097-11-ND	3.49	3.13	2.58
		4.32	SAM1095-11-ND	3.49	3.13	2.58
24	30.48	3.43	SAM1097-12-ND	3.61	3.23	2.66
		4.32	SAM1095-12-ND	3.61	3.23	2.66

† More product available online. For pricing and availability, visit our website.

.100” (2.54mm) Socket Strips

SSQ and SSW Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Terminal Material:** Phosphor Bronze • **Operating Temperature Range:** -55°C ~ 125°C Gold, -55°C ~ 105°C Tin • **Contact Resistance:** 10mΩ max. • **Mates with:** TSW Series

Fig. 1

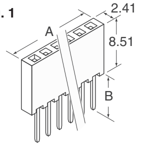

Fig. 2

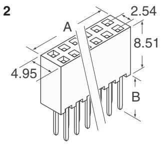

Fig. 3

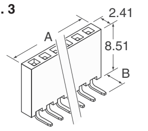

Fig. 4

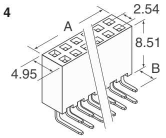

SSQ Series — Square Tail

No. of Pos.	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.†	Price Each 1	10	100
Fig. 1 — Single Row, Vertical						
20µ” Gold on Contact, Gold Flash on Tail						
1	3.05	2.64	SAM1180-01-ND	2.20	1.97	1.63
		4.93	SAM1187-01-ND	2.38	2.13	1.76
		10.00	SAM1198-01-ND	2.33	2.09	1.72
2	5.59	2.64	SAM1180-02-ND	2.28	2.04	1.68
		4.93	SAM1187-02-ND	2.46	2.21	1.82
		10.00	SAM1198-02-ND	2.42	2.17	1.79
3	8.13	2.64	SAM1180-03-ND	2.36	2.12	1.74
		4.93	SAM1187-03-ND	2.54	2.28	1.88
		10.00	SAM1198-03-ND	2.51	2.25	1.85
4	10.67	2.64	SAM1180-04-ND	2.44	2.19	1.80
		4.93	SAM1187-04-ND	2.62	2.35	1.94
		10.00	SAM1198-04-ND	2.60	2.33	1.92
5	13.21	2.64	SAM1180-05-ND	2.52	2.26	1.86
		4.93	SAM1187-05-ND	2.70	2.42	1.99
		10.00	SAM1198-05-ND	2.69	2.41	1.99
6	15.75	2.64	SAM1180-06-ND	2.60	2.33	1.92
		4.93	SAM1187-06-ND	2.78	2.49	2.05
		10.00	SAM1198-06-ND	2.78	2.49	2.05
7	18.29	2.64	SAM1180-07-ND	2.68	2.40	1.98
		4.93	SAM1187-07-ND	2.86	2.56	2.11
		10.00	SAM1198-07-ND	2.87	2.57	2.12
8	20.83	2.64	SAM1180-08-ND	2.76	2.47	2.04
		4.93	SAM1187-08-ND	2.94	2.64	2.17
		10.00	SAM1198-08-ND	2.96	2.65	2.19
9	23.37	2.64	SAM1180-09-ND	2.84	2.55	2.10
		4.93	SAM1187-09-ND	3.02	2.71	2.23
		10.00	SAM1198-09-ND	3.05	2.73	2.25
10	25.91	2.64	SAM1180-10-ND	2.92	2.62	2.16
		4.93	SAM1187-10-ND	3.10	2.78	2.29
		10.00	SAM1198-10-ND	3.14	2.81	2.32
11	28.45	2.64	SAM1180-11-ND	3.00	2.69	2.22
		4.93	SAM1187-11-ND	3.18	2.85	2.35
		10.00	SAM1198-11-ND	3.23	2.89	2.38
12	30.99	2.64	SAM1180-12-ND	3.08	2.76	2.27
		4.93	SAM1187-12-ND	3.26	2.92	2.41
		10.00	SAM1198-12-ND	3.32	2.98	2.45
30µ” Gold on Contact, Matte Tin on Tail						
1	3.05	2.64	SAM1182-01-ND	2.23	2.00	1.65
		4.93	SAM1191-01-ND	1.93	1.73	1.43
		10.00	SAM1202-01-ND	2.33	2.09	1.72
2	5.59	2.64	SAM1182-02-ND	2.31	2.07	1.71
		4.93	SAM1191-02-ND	2.02	1.81	1.49
		10.00	SAM1202-02-ND	2.42	2.17	1.79
3	8.13	2.64	SAM1182-03-ND	2.39	2.14	1.77
		4.93	SAM1191-03-ND	2.11	1.89	1.56
		10.00	SAM1202-03-ND	2.51	2.25	1.85
4	10.67	2.64	SAM1182-04-ND	2.47	2.21	1.82
		4.93	SAM1191-04-ND	2.20	1.97	1.63
		10.00	SAM1202-04-ND	2.60	2.33	1.92
5	13.21	2.64	SAM1182-05-ND	2.55	2.29	1.88
		4.93	SAM1191-05-ND	2.29	2.05	1.69
		10.00	SAM1202-05-ND	2.69	2.41	1.99
6	15.75	2.64	SAM1182-06-ND	2.63	2.36	1.94
		4.93	SAM1191-06-ND	2.38	2.13	1.76
		10.00	SAM1202-06-ND	2.78	2.49	2.05
7	18.29	2.64	SAM1182-07-ND	2.71	2.43	2.00
		4.93	SAM1191-07-ND	2.47	2.21	1.82
		10.00	SAM1202-07-ND	2.87	2.57	2.12
8	20.83	2.64	SAM1182-08-ND	2.79	2.50	2.06
		4.93	SAM1191-08-ND	2.56	2.30	1.89
		10.00	SAM1202-08-ND	2.96	2.65	2.19
9	23.37	2.64	SAM1182-09-ND	2.87	2.57	2.12
		4.93	SAM1191-09-ND	2.65	2.38	1.96
		10.00	SAM1202-09-ND	3.05	2.73	2.25
10	25.91	2.64	SAM1182-10-ND	2.95	2.64	2.18
		4.93	SAM1191-10-ND	2.74	2.46	2.02
		10.00	SAM1202-10-ND	3.14	2.81	2.32
11	28.45	2.64	SAM1182-11-ND	3.03	2.72	2.24
		4.93	SAM1191-11-ND	2.83	2.54	2.09
		10.00	SAM1202-11-ND	3.23	2.89	2.38
12	30.99	2.64	SAM1182-12-ND	3.11	2.79	2.30
		4.93	SAM1191-12-ND	2.92	2.62	2.16
		10.00	SAM1202-12-ND	3.32	2.98	2.45
Matte Tin						
1	3.05	2.64	SAM1184-01-ND	1.56	1.40	1.15
		4.93	SAM1194-01-ND	1.68	1.51	1.24
		10.00	SAM1206-01-ND	1.51	1.36	1.12
2	5.59	2.64	SAM1184-02-ND	1.62	1.45	1.20
		4.93	SAM1194-02-ND	1.74	1.56	1.29
		10.00	SAM1206-02-ND	1.58	1.42	1.17
3	8.13	2.64	SAM1184-03-ND	1.68	1.51	1.24
		4.93	SAM1194-03-ND	1.80	1.62	1.33
		10.00	SAM1206-03-ND	1.65	1.48	1.22
4	10.67	2.64	SAM1184-04-ND	1.74	1.56	1.29
		4.93	SAM1194-04-ND	1.86	1.67	1.38
		10.00	SAM1206-04-ND	1.72	1.54	1.27
5	13.21	2.64	SAM1184-05-ND	1.80	1.62	1.33
		4.93	SAM1194-05-ND	1.92	1.72	1.42
		10.00	SAM1206-05-ND	1.79	1.61	1.32
6	15.75	2.64	SAM1184-06-ND	1.86	1.67	1.38
		4.93	SAM1194-06-ND	1.98	1.78	1.46
		10.00	SAM1206-06-ND	1.86	1.67	1.38
7	18.29	2.64	SAM1184-07-ND	1.92	1.72	1.42
		4.93	SAM1194-07-ND	2.04	1.83	1.51
		10.00	SAM1206-07-ND	1.93	1.73	1.43
8	20.83	2.64	SAM1184-08-ND	1.98	1.78	1.46
		4.93	SAM1194-08-ND	2.10	1.88	1.55
		10.00	SAM1206-08-ND	2.00	1.79	1.48
9	23.37	2.64	SAM1184-09-ND	2.04	1.83	1.51
		4.93	SAM1194-09-ND	2.16	1.94	1.60
		10.00	SAM1206-09-ND	2.07	1.86	1.53
10	25.91	2.64	SAM1184-10-ND	2.10	1.88	1.55
		4.93	SAM1194-10-ND	2.22	1.99	1.64
		10.00	SAM1206-10-ND	2.14	1.92	1.58
11	28.45	2.64	SAM1184-11-ND	2.16	1.94	1.60
		4.93	SAM1194-11-ND	2.28	2.04	1.68
		10.00	SAM1206-11-ND	2.21	1.98	1.63
12	30.99	2.64	SAM1184-12-ND	2.22	1.99	1.64
		4.93	SAM1194-12-ND	2.34	2.10	1.73
		10.00	SAM1206-12-ND	2.28	2.04	1.68
Fig. 2 — Dual Row, Vertical						
20µ” Gold on Contact, Gold Flash on Tail						
4	5.59	2.64	SAM1179-02-ND	3.69	3.31	2.72
		4.93	SAM1185-02-ND	4.02	3.60	2.97
		10.00	SAM1196-02-ND	4.25	3.81	3.14
6	8.13	2.64	SAM1179-03-ND	3.83	3.43	2.83
		4.93	SAM1185-03-ND	4.16	3.73	3.07
		10.00	SAM1196-03-ND	4.40	3.94	3.25
8	10.67	2.64	SAM1179-04-ND	3.97	3.56	2.93
		4.93	SAM1185-04-ND	4.30	3.85	3.17
		10.00	SAM1196-04-ND	4.55	4.08	3.36
10	13.21	2.64	SAM1179-05-ND	4.11	3.68	3.03
		4.93	SAM1185-05-ND	4.44	3.98	3.28
		10.00	SAM1196-05-ND	4.70	4.21	3.47
12	15.75	2.64	SAM1179-06-ND	4.25	3.81	3.14
		4.93	SAM1185-06-ND	4.58	4.10	3.38
		10.00	SAM1196-06-ND	4.85	4.34	3.58
14	18.29	2.64	SAM1179-07-ND	4.39	3.93	3.24
		4.93	SAM1185-07-ND	4.72	4.23	3.48
		10.00	SAM1196-07-ND	5.00	4.48	3.69
16	20.83	2.64	SAM1179-08-ND	4.53	4.06	3.34
		4.93	SAM1185-08-ND	4.86	4.35	3.59
		10.00	SAM1196-08-ND	5.15	4.61	3.80
18	23.37	2.64	SAM1179-09-ND	4.67	4.18	3.45
		4.93	SAM1185-09-ND	5.00	4.48	3.69
		10.00	SAM1196-09-ND	5.30	4.75	3.91
20	25.91	2.64	SAM1179-10-ND	4.81	4.31	3.55
		4.93	SAM1185-10-ND	5.14	4.60	3.79
		10.00	SAM1196-10-ND	5.45	4.88	4.02
22	28.45	2.64	SAM1179-11-ND	4.95	4.43	3.65
		4.93	SAM1185-11-ND	5.28	4.73	3.90
		10.00	SAM1196-11-ND	5.60	5.02	4.13
24	30.99	2.64	SAM1179-12-ND	5.09	4.56	3.76
		4.93	SAM1185-12-ND	5.42	4.85	4.00
		10.00	SAM1196-12-ND	5.75	5.15	4.24
26	33.53	2.64	SAM1179-13-ND	5.23	4.68	3.86
		4.93	SAM1185-13-ND	5.56	4.98	4.10
		10.00	SAM1196-13-ND	5.90	5.28	4.35
30µ” Gold on Contact, Matte Tin on Tail						
4	5.59	2.64	SAM1181-02-ND	3.76	3.37	2.78
		4.93	SAM1189-02-ND	3.61	3.23	2.66
		10.00	SAM1200-02-ND	3.84	3.44	2.83
6	8.13	2.64	SAM1181-03-ND	3.90	3.49	2.88
		4.93	SAM1189-03-ND	3.76	3.37	2.78
		10.00	SAM1200-03-ND	4.00	3.58	2.95
8	10.67	2.64	SAM1181-04-ND	4.04	3.62	2.98
		4.93	SAM1189-04-ND	3.91	3.50	2.89
		10.00	SAM1200-04-ND	4.16	3.73	3.07
10	13.21	2.64	SAM1181-05-ND	4.18	3.74	3.08
		4.93	SAM1189-05-ND	4.06	3.64	3.00
		10.00	SAM1200-05-ND	4.32	3.87	3.19
12	15.75	2.64	SAM1181-06-ND	4.32	3.87	3.19
		4.93	SAM1189-06-ND	4.21	3.77	3.11
		10.00	SAM1200-06-ND	4.48	4.01	3.31
14	18.29	2.64	SAM1181-07-ND	4.46	4.00	3.29
		4.93	SAM1189-07-ND	4.36	3.91	3.22
		10.00	SAM1200-07-ND	4.64	4.16	3.42
16	20.83	2.64	SAM1181-08-ND	4.60	4.12	3.39
		4.93	SAM1189-08-ND	4.51	4.04	3.33
		10.00	SAM1200-08-ND	4.80	4.30	3.54
18	23.37	2.64	SAM1181-09-ND	4.74	4.25	3.50
		4.93	SAM1189-09-ND	4.66	4.17	3.44
		10.00	SAM1200-09-ND	4.96	4.44	3.66
20	25.91	2.64	SAM1181-10-ND	4.88	4.37	3.60
		4.93	SAM1189-10-ND	4.81	4.31	3.55
		10.00	SAM1200-10-ND	5.12	4.59	3.78
22	28.45	2.64	SAM1181-11-ND	5.02	4.50	3.70
		4.93	SAM1189-11-ND	4.96	4.44	3.66
		10.00	SAM1200-11-ND	5.28	4.73	3.90
24	30.99	2.64	SAM1181-12-ND	5.16	4.62	3.81
		4.93	SAM1189-12-ND	5.11	4.58	3.77
		10.00	SAM1200-12-ND	5.44	4.87	4.01
26	33.53	2.64	SAM1181-13-ND	5.30	4.75	3.91
		4.93	SAM1189-13-ND	5.26	4.71	3.88
		10.00	SAM1200-13-ND	5.60	5.02	4.13
Matte Tin						
4	5.59	2.64	SAM1183-02-ND	2.86	2.56	2.11
		4.93	SAM1193-02-ND	2.62	2.35	1.94
		10.00	SAM1204-02-ND	3.11	2.79	2.30
6	8.13	2.64	SAM1183-03-ND	2.96	2.65	2.19
		4.93	SAM1193-03-ND	2.73	2.45	2.02
		10.00	SAM1204-03-ND	3.22	2.89	2.38
8	10.67	2.64	SAM1183-04-ND	3.06	2.74	2.26
		4.93	SAM1193-04-ND	2.84	2.55	2.10
		10.00	SAM1204-04-ND	3.33	2.98	2.46
10	13.21	2.64	SAM1183-05-ND	3.16	2.83	2.33
		4.93	SAM1193-05-ND	2.95	2.64	2.18
		10.00	SAM1204-05-ND	3.44	3.08	2.54
12	15.75	2.64	SAM1183-06-ND	3.26	2.92	2.41
		4.93	SAM1193-06-ND	3.06	2.74	2.26
		10.00	SAM1204-06-ND	3.55	3.18	2.62
14	18.29	2.64	SAM1183-07-ND	3.36	3.01	2.48
		4.93	SAM1193-07-ND	3.17	2.84	2.34
		10.00	SAM1204-07-ND	3.66	3.28	2.70
16	20.83	2.64	SAM1183-08-ND	3.46	3.10	2.55
		4.93	SAM1193-08-ND	3.28	2.94	2.42
		10.00	SAM1204-08-ND	3.77	3.38	2.78
18	23.37	2.64	SAM1183-09-ND	3.56	3.19	2.63
		4.93	SAM1193-09-ND	3.39	3.04	2.50
		10.00	SAM1204-09-ND	3.88	3.48	2.86
20	25.91	2.64	SAM1183-10-ND	3.66	3.28	2.70
		4.93	SAM1193-10-ND	3.50	3.14	2.58
		10.00	SAM1204-10-ND	3.99	3.57	2.94
22	28.45	2.64	SAM1183-11-ND	3.76	3.37	2.78
		4.93	SAM1193-11-ND	3.61	3.23	2.66
		10.00	SAM1204-11-ND	4.10	3.67	3.03
24	30.99	2.64	SAM1183-12-ND	3.86	3.46	2.85
		4.93	SAM1193-12-ND	3.72	3.33	2.75
		10.00	SAM1204-12-ND	4.21	3.77	3.11
26	33.53	2.64	SAM1183-13-ND	3.96	3.55	2.92
		4.93	SAM1193-13-ND	3.83	3.43	2.83
		10.00	SAM1204-13-ND	4.32	3.87	3.19
Fig. 3 — Single Row, Right Angle						
20µ” Gold on Contact, Gold Flash on Tail						
1	3.05	2.54	SAM1188-01-ND	2.54	2.28	1.88
		7.62	SAM1199-01-ND	2.48	2.22	1.83
2	5.59	2.54	SAM1188-02-ND	2.63	2.36	1.94
		7.62	SAM1199-02-ND	2.58	2.31	1.91
3	8.13	2.54	SAM1188-03-ND	2.72	2.44	2.01
		7.62	SAM1199-03-ND	2.68	2.40	1.98
4	10.67	2.54	SAM1188-04-ND	2.81	2.52	2.08
		7.62	SAM1199-04-ND	2.78	2.49	2.05
5	13.21	2.54	SAM1188-05-ND	2.90	2.60	2.14
		7.62	SAM1199-05-ND	2.88	2.58	2.13

† More product available online. For pricing and availability, visit our website. ◊ Low Insertion Force

(Continued)

samtec

.100” (2.54mm) Socket Strips
SSQ and SSW Series *(Cont.)*

No. of Pos.	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.†	Price Each 1	Price Each 10	Price Each 100
6	15.75	2.54	SAM1188-06-ND	2.99	2.68	2.21
		7.62	SAM1199-06-ND	2.98	2.67	2.20
7	18.29	2.54	SAM1188-07-ND	3.08	2.76	2.27
		7.62	SAM1199-07-ND	3.08	2.76	2.27
8	20.83	2.54	SAM1188-08-ND	3.17	2.84	2.34
		7.62	SAM1199-08-ND	3.18	2.85	2.35
9	23.37	2.54	SAM1188-09-ND	3.26	2.92	2.41
		7.62	SAM1199-09-ND	3.28	2.94	2.42
10	25.91	2.54	SAM1188-10-ND	3.35	3.00	2.47
		7.62	SAM1199-10-ND	3.38	3.03	2.50
11	28.45	2.54	SAM1188-11-ND	3.44	3.08	2.54
		7.62	SAM1199-11-ND	3.48	3.12	2.57
12	30.99	2.54	SAM1188-12-ND	3.53	3.16	2.61
		7.62	SAM1199-12-ND	3.58	3.21	2.64
30µ” Gold on Contact, Matte Tin on Tail						
1	3.05	2.54	SAM1192-01-ND	2.57	2.30	1.90
		7.62	SAM1203-01-ND	2.51	2.25	1.85
2	5.59	2.54	SAM1192-02-ND	2.66	2.38	1.96
		7.62	SAM1203-02-ND	2.61	2.34	1.93
3	8.13	2.54	SAM1192-03-ND	2.75	2.47	2.03
		7.62	SAM1203-03-ND	2.71	2.43	2.00
4	10.67	2.54	SAM1192-04-ND	2.84	2.55	2.10
		7.62	SAM1203-04-ND	2.81	2.52	2.08
5	13.21	2.54	SAM1192-05-ND	2.93	2.63	2.16
		7.62	SAM1203-05-ND	2.91	2.61	2.15
6	15.75	2.54	SAM1192-06-ND	3.02	2.71	2.23
		7.62	SAM1203-06-ND	3.01	2.70	2.22
7	18.29	2.54	SAM1192-07-ND	3.11	2.79	2.30
		7.62	SAM1203-07-ND	3.11	2.79	2.30
8	20.83	2.54	SAM1192-08-ND	3.20	2.87	2.36
		7.62	SAM1203-08-ND	3.21	2.88	2.37
9	23.37	2.54	SAM1192-09-ND	3.29	2.95	2.43
		7.62	SAM1203-09-ND	3.31	2.97	2.44
10	25.91	2.54	SAM1192-10-ND	3.38	3.03	2.50
		7.62	SAM1203-10-ND	3.41	3.06	2.52
11	28.45	2.54	SAM1192-11-ND	3.47	3.11	2.56
		7.62	SAM1203-11-ND	3.51	3.15	2.59
12	30.99	2.54	SAM1192-12-ND	3.56	3.19	2.63
		7.62	SAM1203-12-ND	3.61	3.23	2.66
Matte Tin						
1	3.05	2.54	SAM1195-01-ND	1.65	1.48	1.22
		7.62	SAM1207-01-ND	1.98	1.78	1.46
2	5.59	2.54	SAM1195-02-ND	1.72	1.54	1.27
		7.62	SAM1207-02-ND	2.05	1.84	1.52
3	8.13	2.54	SAM1195-03-ND	1.79	1.61	1.32
		7.62	SAM1207-03-ND	2.12	1.90	1.57
4	10.67	2.54	SAM1195-04-ND	1.86	1.67	1.38
		7.62	SAM1207-04-ND	2.19	1.96	1.62
5	13.21	2.54	SAM1195-05-ND	1.93	1.73	1.43
		7.62	SAM1207-05-ND	2.26	2.03	1.67
6	15.75	2.54	SAM1195-06-ND	2.00	1.79	1.48
		7.62	SAM1207-06-ND	2.33	2.09	1.72
7	18.29	2.54	SAM1195-07-ND	2.07	1.86	1.53
		7.62	SAM1207-07-ND	2.40	2.15	1.77
8	20.83	2.54	SAM1195-08-ND	2.14	1.92	1.58
		7.62	SAM1207-08-ND	2.47	2.21	1.82
9	23.37	2.54	SAM1195-09-ND	2.21	1.98	1.63
		7.62	SAM1207-09-ND	2.54	2.28	1.88
10	25.91	2.54	SAM1195-10-ND	2.28	2.04	1.68
		7.62	SAM1207-10-ND	2.61	2.34	1.93
11	28.45	2.54	SAM1195-11-ND	2.35	2.11	1.74
		7.62	SAM1207-11-ND	2.68	2.40	1.98
12	30.99	2.54	SAM1195-12-ND	2.42	2.17	1.79
		7.62	SAM1207-12-ND	2.75	2.47	2.03
Fig. 4 — Dual Row, Right Angle						
20µ” Gold on Contact, Gold Flash on Tail						
4	5.59	2.54	SAM1186-02-ND	4.14	3.71	3.06
		7.62	SAM1197-02-ND	4.42	3.96	3.26
6	8.13	2.54	SAM1186-03-ND	4.30	3.85	3.17
		7.62	SAM1197-03-ND	4.59	4.11	3.39
8	10.67	2.54	SAM1186-04-ND	4.46	4.00	3.29
		7.62	SAM1197-04-ND	4.76	4.26	3.51
10	13.21	2.54	SAM1186-05-ND	4.62	4.14	3.41
		7.62	SAM1197-05-ND	4.93	4.42	3.64
12	15.75	2.54	SAM1186-06-ND	4.78	4.28	3.53
		7.62	SAM1197-06-ND	5.10	4.57	3.76
14	18.29	2.54	SAM1186-07-ND	4.94	4.42	3.64
		7.62	SAM1197-07-ND	5.27	4.72	3.89
16	20.83	2.54	SAM1186-08-ND	5.10	4.57	3.76
		7.62	SAM1197-08-ND	5.44	4.87	4.01
18	23.37	2.54	SAM1186-09-ND	5.26	4.71	3.88
		7.62	SAM1197-09-ND	5.61	5.02	4.14
20	25.91	2.54	SAM1186-10-ND	5.42	4.85	4.00
		7.62	SAM1197-10-ND	5.78	5.18	4.26
22	28.45	2.54	SAM1186-11-ND	5.58	5.00	4.12
		7.62	SAM1197-11-ND	5.95	5.33	4.39
24	30.99	2.54	SAM1186-12-ND	5.74	5.14	4.23
		7.62	SAM1197-12-ND	6.12	5.48	4.51
26	33.53	2.54	SAM1186-13-ND	5.90	5.28	4.35
		7.62	SAM1197-13-ND	6.29	5.63	4.64
30µ” Gold on Contact, Matte Tin on Tail						
4	5.59	2.54	SAM1190-02-ND	4.20	3.76	3.10
		7.62	SAM1201-02-ND	4.49	4.02	3.31
6	8.13	2.54	SAM1190-03-ND	4.36	3.91	3.22
		7.62	SAM1201-03-ND	4.66	4.17	3.44
8	10.67	2.54	SAM1190-04-ND	4.52	4.05	3.34
		7.62	SAM1201-04-ND	4.83	4.33	3.56
10	13.21	2.54	SAM1190-05-ND	4.68	4.19	3.45
		7.62	SAM1201-05-ND	5.00	4.48	3.69
12	15.75	2.54	SAM1190-06-ND	4.84	4.34	3.57
		7.62	SAM1201-06-ND	5.17	4.63	3.81
14	18.29	2.54	SAM1190-07-ND	5.00	4.48	3.69
		7.62	SAM1201-07-ND	5.34	4.78	3.94
16	20.83	2.54	SAM1190-08-ND	5.16	4.62	3.81
		7.62	SAM1201-08-ND	5.51	4.93	4.06
18	23.37	2.54	SAM1190-09-ND	5.32	4.76	3.92
		7.62	SAM1201-09-ND	5.68	5.09	4.19
20	25.91	2.54	SAM1190-10-ND	5.48	4.91	4.04
		7.62	SAM1201-10-ND	5.85	5.24	4.32
22	28.45	2.54	SAM1190-11-ND	5.64	5.05	4.16
		7.62	SAM1201-11-ND	6.02	5.39	4.44
24	30.99	2.54	SAM1190-12-ND	5.80	5.19	4.28
		7.62	SAM1201-12-ND	6.19	5.54	4.57
26	33.53	2.54	SAM1190-13-ND	5.96	5.34	4.40
		7.62	SAM1201-13-ND	6.36	5.70	4.69
Matte Tin						
4	5.59	2.54	SAM1224-02-ND	2.91	2.61	2.15
		7.62	SAM1205-02-ND	3.49	3.13	2.58
6	8.13	2.54	SAM1224-03-ND	3.03	2.72	2.24
		7.62	SAM1205-03-ND	3.61	3.23	2.66
8	10.67	2.54	SAM1224-04-ND	3.15	2.82	2.33
		7.62	SAM1205-04-ND	3.73	3.34	2.75
10	13.21	2.54	SAM1224-05-ND	3.27	2.93	2.41
		7.62	SAM1205-05-ND	3.85	3.45	2.84
12	15.75	2.54	SAM1224-06-ND	3.39	3.04	2.50
		7.62	SAM1205-06-ND	3.97	3.56	2.93
14	18.29	2.54	SAM1224-07-ND	3.51	3.15	2.59
		7.62	SAM1205-07-ND	4.09	3.66	3.02
16	20.83	2.54	SAM1224-08-ND	3.63	3.25	2.68
		7.62	SAM1205-08-ND	4.21	3.77	3.11
18	23.37	2.54	SAM1224-09-ND	3.75	3.36	2.77
		7.62	SAM1205-09-ND	4.33	3.88	3.20
20	25.91	2.54	SAM1224-10-ND	3.87	3.47	2.86
		7.62	SAM1205-10-ND	4.45	3.99	3.28
22	28.45	2.54	SAM1224-11-ND	3.99	3.57	2.94
		7.62	SAM1205-11-ND	4.57	4.09	3.37
24	30.99	2.54	SAM1224-12-ND	4.11	3.68	3.03
		7.62	SAM1205-12-ND	4.69	4.20	3.46
26	33.53	2.54	SAM1224-13-ND	4.23	3.79	3.12
		7.62	SAM1205-13-ND	4.81	4.31	3.55

SSW Series — Solder Tail

No. of Pos.	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.†	Price Each 1	Price Each 10	Price Each 100
Fig. 1 — Single Row, Vertical						
20µ” Gold on Contact, Gold Flash on Tail						
1	3.05	2.64	SAM1209-01-ND	2.11	1.89	1.56
		4.93	SAM1216-01-ND	1.81	1.62	1.34
2	5.59	2.64	SAM1209-02-ND	2.18	1.96	1.61
		4.93	SAM1216-02-ND	1.89	1.70	1.40
3	8.13	2.64	SAM1209-03-ND	2.25	2.02	1.66
		4.93	SAM1216-03-ND	1.97	1.77	1.46
4	10.67	2.64	SAM1209-04-ND	2.32	2.08	1.71
		4.93	SAM1216-04-ND	2.05	1.84	1.52
5	13.21	2.64	SAM1209-05-ND	2.39	2.14	1.77
		4.93	SAM1216-05-ND	2.13	1.91	1.57
6	15.75	2.64	SAM1209-06-ND	2.46	2.21	1.82
		4.93	SAM1216-06-ND	2.21	1.98	1.63
7	18.29	2.64	SAM1209-07-ND	2.53	2.27	1.87
		4.93	SAM1216-07-ND	2.29	2.05	1.69
8	20.83	2.64	SAM1209-08-ND	2.60	2.33	1.92
		4.93	SAM1216-08-ND	2.37	2.13	1.75
9	23.37	2.64	SAM1209-09-ND	2.67	2.39	1.97
		4.93	SAM1216-09-ND	2.45	2.20	1.81
10	25.91	2.64	SAM1209-10-ND	2.74	2.46	2.02
		4.93	SAM1216-10-ND	2.53	2.27	1.87
11	28.45	2.64	SAM1209-11-ND	2.81	2.52	2.08
		4.93	SAM1216-11-ND	2.61	2.34	1.93
12	30.99	2.64	SAM1209-12-ND	2.88	2.58	2.13
		4.93	SAM1216-12-ND	2.69	2.41	1.99
30µ” Gold on Contact, Matte Tin on Tail						
1	3.05	2.64	SAM1211-01-ND	1.66	1.49	1.23
		4.93	SAM1219-01-ND	1.84	1.65	1.36
2	5.59	2.64	SAM1211-02-ND	1.74	1.56	1.29
		4.93	SAM1219-02-ND	1.92	1.72	1.42
3	8.13	2.64	SAM1211-03-ND	1.82	1.63	1.35
		4.93	SAM1219-03-ND	2.00	1.79	1.48
4	10.67	2.64	SAM1211-04-ND	1.90	1.70	1.40
		4.93	SAM1219-04-ND	2.08	1.87	1.54
5	13.21	2.64	SAM1211-05-ND	1.98	1.78	1.46
		4.93	SAM1219-05-ND	2.16	1.94	1.60
6	15.75	2.64	SAM1211-06-ND	2.06	1.85	1.52
		4.93	SAM1219-06-ND	2.24	2.01	1.66
7	18.29	2.64	SAM1211-07-ND	2.14	1.92	1.58
		4.93	SAM1219-07-ND	2.32	2.08	1.71
8	20.83	2.64	SAM1211-08-ND	2.22	1.99	1.64
		4.93	SAM1219-08-ND	2.40	2.15	1.77
9	23.37	2.64	SAM1211-09-ND	2.30	2.06	1.70
		4.93	SAM1219-09-ND	2.48	2.22	1.83
10	25.91	2.64	SAM1211-10-ND	2.38	2.13	1.76
		4.93	SAM1219-10-ND	2.56	2.30	1.89
11	28.45	2.64	SAM1211-11-ND	2.46	2.21	1.82
		4.93	SAM1219-11-ND	2.64	2.37	1.95
12	30.99	2.64	SAM1211-12-ND	2.54	2.28	1.88
		4.93	SAM1219-12-ND	2.72	2.44	2.01
Matte Tin						
1	3.05	2.64	SAM1213-01-ND	1.62	1.45	1.20
		4.93	SAM1222-01-ND	1.25	1.12	.93
2	5.59	2.64	SAM1213-02-ND	1.67	1.50	1.24
		4.93	SAM1222-02-ND	1.31	1.18	.97
3	8.13	2.64	SAM1213-03-ND	1.72	1.54	1.27
		4.93	SAM1222-03-ND	1.37	1.23	1.01
4	10.67	2.64	SAM1213-04-ND	1.77	1.59	1.31
		4.93	SAM1222-04-ND	1.43	1.28	1.06
5	13.21	2.64	SAM1213-05-ND	1.82	1.63	1.35
		4.93	SAM1222-05-ND	1.49	1.34	1.10
6	15.75	2.64	SAM1213-06-ND	1.87	1.68	1.38
		4.93	SAM1222-06-ND	1.55	1.39	1.15
7	18.29	2.64	SAM1213-07-ND	1.92	1.72	1.42
		4.93	SAM1222-07-ND	1.61	1.45	1.19
8	20.83	2.64	SAM1213-08-ND	1.97	1.77	1.46
		4.93	SAM1222-08-ND	1.67	1.50	1.24
9	23.37	2.64	SAM1213-09-ND	2.02	1.81	1.49
		4.93	SAM1222-09-ND	1.73	1.55	1.28
10	25.91	2.64	SAM1213-10-ND	2.07	1.86	1.53
		4.93	SAM1222-10-ND	1.79	1.61	1.32
11	28.45	2.64	SAM1213-11-ND	2.12	1.90	1.57
		4.93	SAM1222-11-ND	1.85	1.66	1.37
12	30.99	2.64	SAM1213-12-ND	2.17	1.95	1.60
		4.93	SAM1222-12-ND	1.91	1.71	1.41
Fig. 2 —Dual Row, Vertical						
20µ” Gold on Contact, Gold Flash on Tail						
4	5.59	2.64	SAM1208-02-ND	3.20	2.87	2.36
		4.93	SAM1214-02-ND	3.53	3.16	2.61
6	8.13	2.64	SAM1208-03-ND	3.33	2.98	2.46
		4.93	SAM1214-03-ND	3.66	3.28	2.70
8	10.67	2.64	SAM1208-04-ND	3.46	3.10	2.55
		4.93	SAM1214-04-ND	3.79	3.40	2.80
10	13.21	2.64	SAM1208-05-ND	3.59	3.22	2.65
		4.93	SAM1214-05-ND	3.92	3.51	2.89
12	15.75	2.64	SAM1208-06-ND	3.72	3.33	2.75
		4.93	SAM1214-06-ND	4.05	3.63	2.99
14	18.29	2.64	SAM1208-07-ND	3.85	3.45	2.84
		4.93	SAM1214-07-ND	4.18	3.74	3.08
16	20.83	2.64	SAM1208-08-ND	3.98	3.57	2.94
		4.93	SAM1214-08-ND	4.31	3.86	3.18
18	23.37	2.64	SAM1208-09-ND	4.11	3.68	3.03
		4.93	SAM1214-09-ND	4.44	3.98	3.28
20	25.91	2.64	SAM1208-10-ND	4.24	3.80	3.13
		4.93	SAM1214-10-ND	4.57	4.09	3.37
22	28.45	2.64	SAM1208-11-ND	4.37	3.91	3.22
		4.93	SAM1214-11-ND	4.70	4.21	3.47
24	30.99	2.64	SAM1208-12-ND	4.50	4.03	3.32
		4.93	SAM1214-12-ND	4.83	4.33	3.56
26	33.53	2.64	SAM1208-13-ND	4.63	4.15	3.42
		4.93	SAM1214-13-ND	4.96	4.44	3.66
30µ” Gold on Contact, Matte Tin on Tail						
4	5.59	2.64	SAM1210-02-ND	3.26	2.92	2.41
		4.93	SAM1217-02-ND	3.56	3.19	2.63
		4.93	SAM1223-02-ND◊	3.72	3.33	2.75
6	8.13	2.64	SAM1210-03-ND	3.39	3.04	2.50
		4.93	SAM1217-03-ND	3.69	3.31	2.72
		4.93	SAM1223-03-ND◊	3.86	3.46	2.85
8	10.67	2.64	SAM1210-04-ND	3.52	3.15	2.60
		4.93	SAM1217-04-ND	3.82	3.42	2.82
		4.93	SAM1223-04-ND◊	4.00	3.58	2.95
10	13.21	2.64	SAM1210-05-ND	3.65	3.27	2.69
		4.93	SAM1217-05-ND	3.95	3.54	2.92
		4.93	SAM1223-05-ND◊	4.14	3.71	3.06
12	15.75	2.64	SAM1210-06-ND	3.78	3.39	2.79
		4.93	SAM1217-06-ND	4.08	3.66	3.01
		4.93	SAM1223-06-ND◊	4.28	3.83	3.16
14	18.29	2.64	SAM1210-07-ND	3.91	3.50	2.89
		4.93	SAM1217-07-ND	4.21	3.77	3.11
		4.93	SAM1223-07-ND◊	4.42	3.96	3.26
16	20.83	2.64	SAM1210-08-ND	4.04	3.62	2.98
		4.93	SAM1217-08-ND	4.34	3.89	3.20
		4.93	SAM1223-08-ND◊	4.56	4.08	3.36
18	23.37	2.64	SAM1210-09-ND	4.17	3.74	3.08
		4.93	SAM1217-09-ND	4.47	4.00	3.30
		4.93	SAM1223-09-ND◊	4.70	4.21	3.47
20	25.91	2.64	SAM1210-10-ND	4.30	3.85	3.17
		4.93	SAM1217-10-ND	4.60	4.12	3.39
		4.93	SAM1223-10-ND◊	4.84	4.34	3.57
22	28.45	2.64	SAM1210-11-ND	4.43	3.97	3.27
		4.93	SAM1217-11-ND	4.73	4.24	3.49
		4.93	SAM1223-11-ND◊	4.98	4.46	3.67
24	30.99	2.64	SAM1210-12-ND	4.56	4.08	3.36
		4.93	SAM1217-12-ND	4.86	4.35	3.59
		4.93	SAM1223-12-ND◊	5.12	4.59	3.78
26	33.53	2.64	SAM1210-13-ND	4.69	4.20	3.46
		4.93	SAM1217-13-ND	4.99	4.47	3.68
		4.93	SAM1223-13-ND◊	5.26	4.71	3.88
Matte Tin						
4	5.59	2.64	SAM1212-02-ND	2.60	2.33	1.92
		4.93	SAM1221-02-ND	2.37	2.13	1.75
6	8.13	2.64	SAM1212-03-ND	2.69	2.41	1.99
		4.93	SAM1221-03-ND	2.47	2.21	1.82
8	10.67	2.64	SAM1212-04-ND	2.78	2.49	2.05
		4.93	SAM1221-04-ND	2.57	2.30	1.90
10	13.21	2.64	SAM1212-05-ND	2.87	2.57	2.12
		4.93	SAM1221-05-ND	2.67	2.39	1.97
12	15.75	2.64	SAM1212-06-ND	2.96	2.65	2.19
		4.93	SAM1221-06-ND	2.77	2.48	2.05
14	18.29	2.64	SAM1212-07-ND	3.05	2.73	2.25
		4.93	SAM1221-07-ND	2.87	2.57	2.12
16	20.83	2.64	SAM1212-08-ND	3.14	2.81	2.32
		4.93	SAM1221-08-ND	2.97	2.66	2.19
18	23.37	2.64	SAM1212-09-ND	3.23	2.89	2.38
		4.93	SAM1221-09-ND	3.07	2.75	2.27
20	25.91	2.64	SAM1212-10-ND	3.32	2.98	2.45
		4.93	SAM1221-10-ND	3.17	2.84	2.34
22	28.45	2.64	SAM1212-11-ND	3.41	3.06	2.52
		4.93	SAM1221-11-ND	3.27	2.93	2.41
24	30.99	2.64	SAM1212-12-ND	3.50	3.14	2.58
		4.93	SAM1221-12-ND	3.37	3.02	2.49
26	33.53	2.64	SAM1212-13-ND	3.59	3.22	2.65
		4.93	SAM1221-13-ND	3.47	3.11	2.56
Fig. 3 — Single Row, Right Angle						
20µ” Gold on Contact, Gold Flash on Tail						
1	3.05	2.54	SAM1225-01-ND	2.38	2.13	1.76
2	5.59	2.54	SAM1225-02-ND	2.46	2.21	1.82
3	8.13	2.54	SAM1225-03-ND	2.54	2.28	1.88
4	10.67	2.54	SAM1225-04-ND	2.62	2.35	1.94
5	13.21	2.54	SAM1225-05-ND	2.70	2.42	1.99

† More product available online. For pricing and availability, visit our website. ◊ Low Insertion Force

(Continued)

.100" (2.54mm) Socket Strips

SSQ and SSW Series *(Cont.)*

No. of Pos.	Dim. (mm)		Digi-Key Part No.†	Price Each		
	A	B		1	10	100
6	15.75	2.54	SAM1225-06-ND	2.78	2.49	2.05
7	18.29	2.54	SAM1225-07-ND	2.86	2.56	2.11
8	20.83	2.54	SAM1225-08-ND	2.94	2.64	2.17
9	23.37	2.54	SAM1225-09-ND	3.02	2.71	2.23
10	25.91	2.54	SAM1225-10-ND	3.10	2.78	2.29
11	28.45	2.54	SAM1225-11-ND	3.18	2.85	2.35
12	30.99	2.54	SAM1225-12-ND	3.26	2.92	2.41
30µ" Gold on Contact, Matte Tin on Tail						
1	3.05	2.54	SAM1220-01-ND	1.93	1.73	1.43
2	5.59	2.54	SAM1220-02-ND	2.02	1.81	1.49
3	8.13	2.54	SAM1220-03-ND	2.11	1.89	1.56
4	10.67	2.54	SAM1220-04-ND	2.20	1.97	1.63
5	13.21	2.54	SAM1220-05-ND	2.29	2.05	1.69
6	15.75	2.54	SAM1220-06-ND	2.38	2.13	1.76
7	18.29	2.54	SAM1220-07-ND	2.47	2.21	1.82
8	20.83	2.54	SAM1220-08-ND	2.56	2.30	1.89
9	23.37	2.54	SAM1220-09-ND	2.65	2.38	1.96
10	25.91	2.54	SAM1220-10-ND	2.74	2.46	2.02
11	28.45	2.54	SAM1220-11-ND	2.83	2.54	2.09
12	30.99	2.54	SAM1220-12-ND	2.92	2.62	2.16
Fig. 4 — Dual Row, Right Angle						
20µ" Gold on Contact, Gold Flash on Tail						
4	5.59	2.54	SAM1215-02-ND	4.00	3.58	2.95
6	8.13	2.54	SAM1215-03-ND	4.14	3.71	3.06
8	10.67	2.54	SAM1215-04-ND	4.28	3.83	3.16
10	13.21	2.54	SAM1215-05-ND	4.42	3.96	3.26
12	15.75	2.54	SAM1215-06-ND	4.56	4.08	3.36
14	18.29	2.54	SAM1215-07-ND	4.70	4.21	3.47
16	20.83	2.54	SAM1215-08-ND	4.84	4.34	3.57
18	23.37	2.54	SAM1215-09-ND	4.98	4.46	3.67
20	25.91	2.54	SAM1215-10-ND	5.12	4.59	3.78
22	28.45	2.54	SAM1215-11-ND	5.26	4.71	3.88
24	30.99	2.54	SAM1215-12-ND	5.40	4.84	3.98
26	33.53	2.54	SAM1215-13-ND	5.54	4.96	4.09
30µ" Gold on Contact, Matte Tin on Tail						
4	5.59	2.54	SAM1218-02-ND	3.58	3.21	2.64
6	8.13	2.54	SAM1218-03-ND	3.73	3.34	2.75
8	10.67	2.54	SAM1218-04-ND	3.88	3.48	2.86
10	13.21	2.54	SAM1218-05-ND	4.03	3.61	2.97
12	15.75	2.54	SAM1218-06-ND	4.18	3.74	3.08
14	18.29	2.54	SAM1218-07-ND	4.33	3.88	3.20
16	20.83	2.54	SAM1218-08-ND	4.48	4.01	3.31
18	23.37	2.54	SAM1218-09-ND	4.63	4.15	3.42
20	25.91	2.54	SAM1218-10-ND	4.78	4.28	3.53
22	28.45	2.54	SAM1218-11-ND	4.93	4.42	3.64
24	30.99	2.54	SAM1218-12-ND	5.08	4.55	3.75
26	33.53	2.54	SAM1218-13-ND	5.23	4.68	3.86

† More product available online. For pricing and availability, visit our website.
◊ Low Insertion Force

.100" (2.54mm) Surface Mount Sockets

SSM Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** Gold Palladium Nickel or Tin over 50µ" (1.27µm) Nickel • **Current Rating:** 4A @ 80°C ambient (-DH/-SH mated with TSW-D) • **Voltage Rating:** 475 VAC (-SV/-DV mated with TSW) • **Operating Temperature Range:** -55°C ~ 125°C with Gold, -55°C ~ 105°C with Tin • **Contact Resistance:** 10mΩ maximum • **Mates with:** TSW Series

Fig. 1

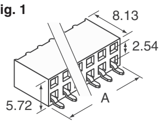

Fig. 2

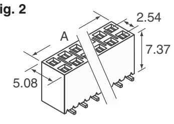

Fig. 3

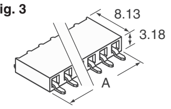

Fig. 4

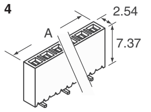

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
10µ" (0.25µm) Gold on Contact, Matte Tin on Tail						
Dual Row, Horizontal						
1	4	5.08	SAM1145-02-ND	6.31	5.65	4.65
	6	7.62	SAM1145-03-ND	6.56	5.87	4.84
	8	10.16	SAM1145-04-ND	6.81	6.10	5.02
	10	12.70	SAM1145-05-ND	7.06	6.32	5.21
	12	15.24	SAM1145-06-ND	7.31	6.55	5.39
	14	17.78	SAM1145-07-ND	7.56	6.77	5.58
	16	20.32	SAM1145-08-ND	7.81	6.99	5.76
	18	22.86	SAM1145-09-ND	8.06	7.22	5.94
	20	25.40	SAM1145-10-ND	8.31	7.44	6.13
	22	27.94	SAM1145-11-ND	8.56	7.66	6.31
	24	30.48	SAM1145-12-ND	8.81	7.89	6.50
	26	33.02	SAM1145-13-ND	9.06	8.11	6.68
Dual Row, Vertical						
2	4	5.08	SAM1146-02-ND	5.13	4.59	3.78
	6	7.62	SAM1146-03-ND	5.33	4.77	3.93
	8	10.16	SAM1146-04-ND	5.53	4.95	4.08
	10	12.70	SAM1146-05-ND	5.73	5.13	4.23
	12	15.24	SAM1146-06-ND	5.93	5.31	4.37
	14	17.78	SAM1146-07-ND	6.13	5.49	4.52
	16	20.32	SAM1146-08-ND	6.33	5.67	4.67
	18	22.86	SAM1146-09-ND	6.53	5.85	4.82
	20	25.40	SAM1146-10-ND	6.73	6.03	4.96
	22	27.94	SAM1146-11-ND	6.93	6.21	5.11
	24	30.48	SAM1146-12-ND	7.13	6.38	5.26
	26	33.02	SAM1146-13-ND	7.33	6.56	5.41
Single Row, Horizontal						
3	2	5.08	SAM1147-02-ND	3.81	3.41	2.81
	3	7.62	SAM1147-03-ND	3.95	3.54	2.92
	4	10.16	SAM1147-04-ND	4.09	3.66	3.02
	5	12.70	SAM1147-05-ND	4.23	3.79	3.12
	6	15.24	SAM1147-06-ND	4.37	3.91	3.22
	7	17.78	SAM1147-07-ND	4.51	4.04	3.33
	8	20.32	SAM1147-08-ND	4.65	4.17	3.43
	9	22.86	SAM1147-09-ND	4.79	4.29	3.53
	10	25.40	SAM1147-10-ND	4.93	4.42	3.64
	11	27.94	SAM1147-11-ND	5.07	4.54	3.74
	12	30.48	SAM1147-12-ND	5.21	4.67	3.84
	13	33.02	SAM1147-13-ND	5.35	4.79	3.95
Single Row, Vertical						
4	2	5.08	SAM1148-02-ND	3.19	2.86	2.36
	3	7.62	SAM1148-03-ND	3.30	2.96	2.44
	4	10.16	SAM1148-04-ND	3.41	3.06	2.52
	5	12.70	SAM1148-05-ND	3.52	3.15	2.60
	6	15.24	SAM1148-06-ND	3.63	3.25	2.68
	7	17.78	SAM1148-07-ND	3.74	3.35	2.76
	8	20.32	SAM1148-08-ND	3.85	3.45	2.84
	9	22.86	SAM1148-09-ND	3.96	3.55	2.92
	10	25.40	SAM1148-10-ND	4.07	3.65	3.00
	11	27.94	SAM1148-11-ND	4.18	3.74	3.08
	12	30.48	SAM1148-12-ND	4.29	3.84	3.17
	13	33.02	SAM1148-13-ND	4.40	3.94	3.25
30µ" (0.76µm) Gold on Contact, Matte Tin on Tail						
Dual Row, Horizontal						
1	4	5.08	SAM1149-02-ND	8.58	7.68	6.33
	6	7.62	SAM1149-03-ND	8.92	7.99	6.58
	8	10.16	SAM1149-04-ND	9.26	8.29	6.83
	10	12.70	SAM1149-05-ND	9.60	8.59	7.08
	12	15.24	SAM1149-06-ND	9.94	8.90	7.33
	14	17.78	SAM1149-07-ND	10.28	9.20	7.58
	16	20.32	SAM1149-08-ND	10.62	9.51	7.83
	18	22.86	SAM1149-09-ND	10.96	9.81	8.08
	20	25.40	SAM1149-10-ND	11.30	10.12	8.33
	22	27.94	SAM1149-11-ND	11.64	10.42	8.58
	24	30.48	SAM1149-12-ND	11.98	10.72	8.83
	26	33.02	SAM1149-13-ND	12.32	11.03	9.08
Dual Row, Vertical						
2	4	5.08	SAM1150-02-ND	7.07	6.33	5.21
	6	7.62	SAM1150-03-ND	7.34	6.57	5.41
	8	10.16	SAM1150-04-ND	7.61	6.81	5.61
	10	12.70	SAM1150-05-ND	7.88	7.06	5.81
	12	15.24	SAM1150-06-ND	8.15	7.30	6.01
	14	17.78	SAM1150-07-ND	8.42	7.54	6.21
	16	20.32	SAM1150-08-ND	8.69	7.78	6.41
	18	22.86	SAM1150-09-ND	8.96	8.02	6.61
	20	25.40	SAM1150-10-ND	9.23	8.26	6.81
	22	27.94	SAM1150-11-ND	9.50	8.50	7.00
	24	30.48	SAM1150-12-ND	9.77	8.75	7.20
	26	33.02	SAM1150-13-ND	10.04	8.99	7.40
Single Row, Horizontal						
3	2	5.08	SAM1151-02-ND	5.21	4.67	3.84
	3	7.62	SAM1151-03-ND	5.40	4.84	3.98
	4	10.16	SAM1151-04-ND	5.59	5.01	4.12
	5	12.70	SAM1151-05-ND	5.78	5.18	4.26
	6	15.24	SAM1151-06-ND	5.97	5.35	4.40
	7	17.78	SAM1151-07-ND	6.16	5.52	4.54
	8	20.32	SAM1151-08-ND	6.35	5.69	4.68
	9	22.86	SAM1151-09-ND	6.54	5.86	4.82
	10	25.40	SAM1151-10-ND	6.73	6.03	4.96
	11	27.94	SAM1151-11-ND	6.92	6.20	5.10
	12	30.48	SAM1151-12-ND	7.11	6.37	5.24
	13	33.02	SAM1151-13-ND	7.30	6.54	5.38
Single Row, Vertical						
4	2	5.08	SAM1152-02-ND	3.84	3.44	2.83
	3	7.62	SAM1152-03-ND	4.00	3.58	2.95
	4	10.16	SAM1152-04-ND	4.16	3.73	3.07
	5	12.70	SAM1152-05-ND	4.32	3.87	3.19
	6	15.24	SAM1152-06-ND	4.48	4.01	3.31
	7	17.78	SAM1152-07-ND	4.64	4.16	3.42
	8	20.32	SAM1152-08-ND	4.80	4.30	3.54
	9	22.86	SAM1152-09-ND	4.96	4.44	3.66
	10	25.40	SAM1152-10-ND	5.12	4.59	3.78
	11	27.94	SAM1152-11-ND	5.28	4.73	3.90
	12	30.48	SAM1152-12-ND	5.44	4.87	4.01
	13	33.02	SAM1152-13-ND	5.60	5.02	4.13

† More product available online. For pricing and availability, visit our website.

.100" (2.54mm) Box Connector Strips BCS Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** Gold or Tin over 50µ" (1.27µm) Nickel • **Operating Temperature Range:** -55°C ~ 125°C • **Contact Resistance:** 10mΩ max. • **Plating Option:** 10µ" (.25µm) Gold on contact, Matte Tin on tail • **Mates with:** TSW Series

Fig. 1

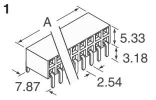

Fig. 2

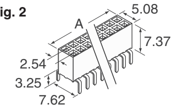

Fig. 3

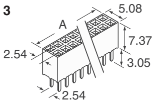

Fig. 4

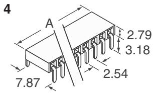

Fig. 5

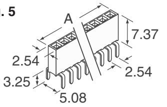

Fig. 6

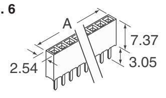

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
Dual Row, Horizontal						
1	2	2.54	SAM1006-01-ND	4.04	3.62	2.98
	4	5.08	SAM1006-02-ND	4.20	3.76	3.10
	6	7.62	SAM1006-03-ND	4.36	3.91	3.22
	8	10.16	SAM1006-04-ND	4.52	4.05	3.34
	10	12.70	SAM1006-05-ND	4.68	4.19	3.45
	12	15.24	SAM1006-06-ND	4.84	4.34	3.57
	14	17.78	SAM1006-07-ND	5.00	4.48	3.69
	16	20.32	SAM1006-08-ND	5.16	4.62	3.81
	18	22.86	SAM1006-09-ND	5.32	4.76	3.92
	20	25.40	SAM1006-10-ND	5.48	4.91	4.04
	22	27.94	SAM1006-11-ND	5.64	5.05	4.16
	24	30.48	SAM1006-12-ND	5.80	5.19	4.28
Dual Row, Vertical						
2	2	2.54	SAM1007-01-ND	3.73	3.34	2.75
	4	5.08	SAM1007-02-ND	3.87	3.47	2.86
	6	7.62	SAM1007-03-ND	4.01	3.59	2.96
	8	10.16	SAM1007-04-ND	4.15	3.72	3.06
	10	12.70	SAM1007-05-ND	4.29	3.84	3.17
	12	15.24	SAM1007-06-ND	4.43	3.97	3.27
	14	17.78	SAM1007-07-ND	4.57	4.09	3.37
	16	20.32	SAM1007-08-ND	4.71	4.22	3.48
	18	22.86	SAM1007-09-ND	4.85	4.34	3.58
	20	25.40	SAM1007-10-ND	4.99	4.47	3.68
	22	27.94	SAM1007-11-ND	5.13	4.59	3.78
	24	30.48	SAM1007-12-ND	5.27	4.72	3.89
Dual Row, Vertical — Top Entry						
3	2	2.54	SAM1008-01-ND	3.73	3.34	2.75
	4	5.08	SAM1008-02-ND	3.87	3.47	2.86
	6	7.62	SAM1008-03-ND	4.01	3.59	2.96
	8	10.16	SAM1008-04-ND	4.15	3.72	3.06
	10	12.70	SAM1008-05-ND	4.29	3.84	3.17
	12	15.24	SAM1008-06-ND	4.43	3.97	3.27
	14	17.78	SAM1008-07-ND	4.57	4.09	3.37
	16	20.32	SAM1008-08-ND	4.71	4.22	3.48
	18	22.86	SAM1008-09-ND	4.85	4.34	3.58
	20	25.40	SAM1008-10-ND	4.99	4.47	3.68
	22	27.94	SAM1008-11-ND	5.13	4.59	3.78
	24	30.48	SAM1008-12-ND	5.27	4.72	3.89
Single Row, Horizontal						
4	1	2.54	SAM1009-01-ND	2.57	2.30	1.90
	2	5.08	SAM1009-02-ND	2.66	2.38	1.96
	3	7.62	SAM1009-03-ND	2.75	2.47	2.03
	4	10.16	SAM1009-04-ND	2.84	2.55	2.10
	5	12.70	SAM1009-05-ND	2.93	2.63	2.16
	6	15.24	SAM1009-06-ND	3.02	2.71	2.23
	7	17.78	SAM1009-07-ND	3.11	2.79	2.30
	8	20.32	SAM1009-08-ND	3.20	2.87	2.36
	9	22.86	SAM1009-09-ND	3.29	2.95	2.43
	10	25.40	SAM1009-10-ND	3.38	3.03	2.50
	11	27.94	SAM1009-11-ND	3.47	3.11	2.56
	12	30.48	SAM1009-12-ND	3.56	3.19	2.63
Single Row, Vertical						
5	1	2.54	SAM1010-01-ND	2.30	2.06	1.70
	2	5.08	SAM1010-02-ND	2.38	2.13	1.76
	3	7.62	SAM1010-03-ND	2.46	2.21	1.82
	4	10.16	SAM1010-04-ND	2.54	2.28	1.88
	5	12.70	SAM1010-05-ND	2.62	2.35	1.94
	6	15.24	SAM1010-06-ND	2.70	2.42	1.99
	7	17.78	SAM1010-07-ND	2.78	2.49	2.05
	8	20.32	SAM1010-08-ND	2.86	2.56	2.11
	9	22.86	SAM1010-09-ND	2.94	2.64	2.17
	10	25.40	SAM1010-10-ND	3.02	2.71	2.23
	11	27.94	SAM1010-11-ND	3.10	2.78	2.29
	12	30.48	SAM1010-12-ND	3.18	2.85	2.35
Single Row, Vertical — Top Entry						
6	1	2.54	SAM1011-01-ND	2.30	2.06	1.70
	2	5.08	SAM1011-02-ND	2.38	2.13	1.76
	3	7.62	SAM1011-03-ND	2.46	2.21	1.82
	4	10.16	SAM1011-04-ND	2.54	2.28	1.88
	5	12.70	SAM1011-05-ND	2.62	2.35	1.94
	6	15.24	SAM1011-06-ND	2.70	2.42	1.99
	7	17.78	SAM1011-07-ND	2.78	2.49	2.05
	8	20.32	SAM1011-08-ND	2.86	2.56	2.11
	9	22.86	SAM1011-09-ND	2.94	2.64	2.17
	10	25.40	SAM1011-10-ND	3.02	2.71	2.23
	11	27.94	SAM1011-11-ND	3.10	2.78	2.29
	12	30.48	SAM1011-12-ND	3.18	2.85	2.35

† More product available online. For pricing and availability, visit our website.

samtec

.100” (2.54mm) Terminal Strips

TSW Series

Specifications: • **Insulator Material:** Black Glass Filled Polyester • **Terminal Material:** Phosphor Bronze • **Plating:** Gold or Tin over 50µ” (1.27µm) Nickel • **Operating Temperature Range:** -55°C ~ 125°C with Gold, -55°C ~ 105°C with Tin • **Voltage Rating:** 550 VAC mated with SSW; 500 VAC mated with BCS; 450 VAC (-RA mated with BCS)
• **Mates with:** SSW, SSQ, BCS, CES, SLW Series

Fig. 1

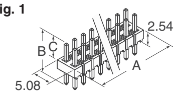

Fig. 2

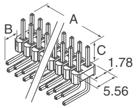

Fig. 3

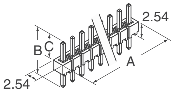

Fig. 4

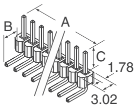

No. of	Dim. (mm)			Digi-Key	Price Each		
Pos.	A	B	C	Part No.†	1	10	100
10µ” (0.25µm) Gold on Contact, Gold Flash on Balance							
Fig. 1 — Dual Row							
2	2.54	8.51	2.67	SAM1012-01-ND	2.23	2.00	1.65
		7.62	2.67	SAM1020-01-ND	2.23	2.00	1.65
		10.92	5.84	SAM1028-01-ND	2.09	1.87	1.54
		13.46	5.84	SAM1036-01-ND	2.20	1.97	1.63
		13.46	8.13	SAM1052-01-ND	2.20	1.97	1.63
		21.08	15.74	SAM1060-01-ND	2.42	2.17	1.79
		11.30	5.84	SAM1068-01-ND	2.35	2.11	1.74
		11.58	5.84	SAM1076-01-ND	2.79	2.50	2.06
4	5.08	8.51	2.67	SAM1012-02-ND	2.32	2.08	1.71
		7.62	2.67	SAM1020-02-ND	2.32	2.08	1.71
		10.92	5.84	SAM1028-02-ND	2.17	1.95	1.60
		13.46	5.84	SAM1036-02-ND	2.28	2.04	1.68
		13.46	8.13	SAM1052-02-ND	2.28	2.04	1.68
		21.08	15.74	SAM1060-02-ND	2.52	2.26	1.86
		11.30	5.84	SAM1068-02-ND	2.43	2.18	1.80
		11.58	5.84	SAM1076-02-ND	2.91	2.61	2.15
6	7.62	8.51	2.67	SAM1012-03-ND	2.41	2.16	1.78
		7.62	2.67	SAM1020-03-ND	2.41	2.16	1.78
		10.92	5.84	SAM1028-03-ND	2.25	2.02	1.66
		13.46	5.84	SAM1036-03-ND	2.36	2.12	1.74
		13.46	8.13	SAM1052-03-ND	2.36	2.12	1.74
		21.08	15.74	SAM1060-03-ND	2.62	2.35	1.94
		11.30	5.84	SAM1068-03-ND	2.51	2.25	1.85
		11.58	5.84	SAM1076-03-ND	3.03	2.72	2.24
8	10.16	8.51	2.67	SAM1012-04-ND	2.50	2.24	1.85
		7.62	2.67	SAM1020-04-ND	2.50	2.24	1.85
		10.92	5.84	SAM1028-04-ND	2.33	2.09	1.72
		13.46	5.84	SAM1036-04-ND	2.44	2.19	1.80
		13.46	8.13	SAM1052-04-ND	2.44	2.19	1.80
		21.08	15.74	SAM1060-04-ND	2.72	2.44	2.01
		11.30	5.84	SAM1068-04-ND	2.59	2.32	1.91
		11.58	5.84	SAM1076-04-ND	3.15	2.82	2.33
10	12.70	8.51	2.67	SAM1012-05-ND	2.59	2.32	1.91
		7.62	2.67	SAM1020-05-ND	2.59	2.32	1.91
		10.92	5.84	SAM1028-05-ND	2.41	2.16	1.78
		13.46	5.84	SAM1036-05-ND	2.52	2.26	1.86
		13.46	8.13	SAM1052-05-ND	2.52	2.26	1.86
		21.08	15.74	SAM1060-05-ND	2.82	2.53	2.08
		11.30	5.84	SAM1068-05-ND	2.67	2.39	1.97
		11.58	5.84	SAM1076-05-ND	3.27	2.93	2.41
12	15.24	8.51	2.67	SAM1012-06-ND	2.68	2.40	1.98
		7.62	2.67	SAM1020-06-ND	2.68	2.40	1.98
		10.92	5.84	SAM1028-06-ND	2.49	2.23	1.84
		13.46	5.84	SAM1036-06-ND	2.60	2.33	1.92
		13.46	8.13	SAM1052-06-ND	2.60	2.33	1.92
		21.08	15.74	SAM1060-06-ND	2.92	2.62	2.16
		11.30	5.84	SAM1068-06-ND	2.75	2.47	2.03
		11.58	5.84	SAM1076-06-ND	3.39	3.04	2.50
14	17.78	8.51	2.67	SAM1012-07-ND	2.77	2.48	2.05
		7.62	2.67	SAM1020-07-ND	2.77	2.48	2.05
		10.92	5.84	SAM1028-07-ND	2.57	2.30	1.90
		13.46	5.84	SAM1036-07-ND	2.68	2.40	1.98
		13.46	8.13	SAM1052-07-ND	2.68	2.40	1.98
		21.08	15.74	SAM1060-07-ND	3.02	2.71	2.23
		11.30	5.84	SAM1068-07-ND	2.83	2.54	2.09
		11.58	5.84	SAM1076-07-ND	3.51	3.15	2.59
16	20.32	8.51	2.67	SAM1012-08-ND	2.86	2.56	2.11
		7.62	2.67	SAM1020-08-ND	2.86	2.56	2.11
		10.92	5.84	SAM1028-08-ND	2.65	2.38	1.96
		13.46	5.84	SAM1036-08-ND	2.76	2.47	2.04
		13.46	8.13	SAM1052-08-ND	2.76	2.47	2.04
		21.08	15.74	SAM1060-08-ND	3.12	2.80	2.30
		11.30	5.84	SAM1068-08-ND	2.91	2.61	2.15
		11.58	5.84	SAM1076-08-ND	3.63	3.25	2.68
18	22.86	8.51	2.67	SAM1012-09-ND	2.95	2.64	2.18
		7.62	2.67	SAM1020-09-ND	2.95	2.64	2.18
		10.92	5.84	SAM1028-09-ND	2.73	2.45	2.02
		13.46	5.84	SAM1036-09-ND	2.84	2.55	2.10
		13.46	8.13	SAM1052-09-ND	2.84	2.55	2.10
		21.08	15.74	SAM1060-09-ND	3.22	2.89	2.38
		11.30	5.84	SAM1068-09-ND	2.99	2.68	2.21
		11.58	5.84	SAM1076-09-ND	3.75	3.36	2.77
20	25.40	8.51	2.67	SAM1012-10-ND	3.04	2.72	2.24
		7.62	2.67	SAM1020-10-ND	3.04	2.72	2.24
		10.92	5.84	SAM1028-10-ND	2.81	2.52	2.08
		13.46	5.84	SAM1036-10-ND	2.92	2.62	2.16
		13.46	8.13	SAM1052-10-ND	2.92	2.62	2.16
		21.08	15.74	SAM1060-10-ND	3.32	2.98	2.45
		11.30	5.84	SAM1068-10-ND	3.07	2.75	2.27
		11.58	5.84	SAM1076-10-ND	3.87	3.47	2.86
22	27.94	8.51	2.67	SAM1012-11-ND	3.13	2.81	2.31
		7.62	2.67	SAM1020-11-ND	3.13	2.81	2.31
		10.92	5.84	SAM1028-11-ND	2.89	2.59	2.13
		13.46	5.84	SAM1036-11-ND	3.00	2.69	2.22
		13.46	8.13	SAM1052-11-ND	3.00	2.69	2.22
		21.08	15.74	SAM1060-11-ND	3.42	3.06	2.52
		11.30	5.84	SAM1068-11-ND	3.15	2.82	2.33
		11.58	5.84	SAM1076-11-ND	3.99	3.57	2.94
24	30.48	8.51	2.67	SAM1012-12-ND	3.22	2.89	2.38
		7.62	2.67	SAM1020-12-ND	3.22	2.89	2.38
		10.92	5.84	SAM1028-12-ND	2.97	2.66	2.19
		13.46	5.84	SAM1036-12-ND	3.08	2.76	2.27
		13.46	8.13	SAM1052-12-ND	3.08	2.76	2.27
		21.08	15.74	SAM1060-12-ND	3.52	3.15	2.60
		11.30	5.84	SAM1068-12-ND	3.23	2.89	2.38
		11.58	5.84	SAM1076-12-ND	4.11	3.68	3.03
Fig. 2 — Dual Row — Right Angle							
2	2.54	2.29	5.84	SAM1037-01-ND	2.33	2.09	1.72
4	5.08	2.29	5.84	SAM1037-02-ND	2.42	2.17	1.79
6	7.62	2.29	5.84	SAM1037-03-ND	2.51	2.25	1.85
8	10.16	2.29	5.84	SAM1037-04-ND	2.60	2.33	1.92
10	12.70	2.29	5.84	SAM1037-05-ND	2.69	2.41	1.99
12	15.24	2.29	5.84	SAM1037-06-ND	2.78	2.49	2.05
14	17.78	2.29	5.84	SAM1037-07-ND	2.87	2.57	2.12
16	20.32	2.29	5.84	SAM1037-08-ND	2.96	2.65	2.19
18	22.86	2.29	5.84	SAM1037-09-ND	3.05	2.73	2.25
20	25.40	2.29	5.84	SAM1037-10-ND	3.14	2.81	2.32
22	27.94	2.29	5.84	SAM1037-11-ND	3.23	2.89	2.38
24	30.48	2.29	5.84	SAM1037-12-ND	3.32	2.98	2.45
Fig. 3 — Single Row							
1	2.54	8.51	2.67	SAM1013-01-ND	.90	.81	.67
		7.62	2.67	SAM1021-01-ND	.90	.81	.67
		10.92	5.84	SAM1029-01-ND	1.03	.93	.76
		13.46	5.84	SAM1038-01-ND	1.10	.99	.82
		13.46	8.13	SAM1053-01-ND	1.10	.99	.82
		21.08	15.74	SAM1061-01-ND	1.23	1.11	.91
		11.30	5.84	SAM1069-01-ND	1.20	1.08	.89
		11.58	5.84	SAM1077-01-ND	1.41	1.27	1.04
2	5.08	8.51	2.67	SAM1013-02-ND	.95	.85	.70
		7.62	2.67	SAM1021-02-ND	.95	.85	.70
		10.92	5.84	SAM1029-02-ND	1.07	.96	.79
		13.46	5.84	SAM1038-02-ND	1.14	1.02	.84
		13.46	8.13	SAM1053-02-ND	1.14	1.02	.84
		21.08	15.74	SAM1061-02-ND	1.28	1.15	.95
		11.30	5.84	SAM1069-02-ND	1.24	1.11	.92
		11.58	5.84	SAM1077-02-ND	1.47	1.32	1.09
3	7.62	8.51	2.67	SAM1013-03-ND	1.00	.90	.74
		7.62	2.67	SAM1021-03-ND	1.00	.90	.74
		10.92	5.84	SAM1029-03-ND	1.11	1.00	.82
		13.46	5.84	SAM1038-03-ND	1.18	1.06	.87
		13.46	8.13	SAM1053-03-ND	1.18	1.06	.87
		21.08	15.74	SAM1061-03-ND	1.33	1.19	.98
		11.30	5.84	SAM1069-03-ND	1.28	1.15	.95
		11.58	5.84	SAM1077-03-ND	1.53	1.37	1.13
4	10.16	8.51	2.67	SAM1013-04-ND	1.05	.94	.78
		7.62	2.67	SAM1021-04-ND	1.05	.94	.78
		10.92	5.84	SAM1029-04-ND	1.15	1.03	.85
		13.46	5.84	SAM1038-04-ND	1.22	1.10	.90
		13.46	8.13	SAM1053-04-ND	1.22	1.10	.90
		21.08	15.74	SAM1061-04-ND	1.38	1.24	1.02
		11.30	5.84	SAM1069-04-ND	1.32	1.19	.98
		11.58	5.84	SAM1077-04-ND	1.59	1.43	1.18
5	12.70	8.51	2.67	SAM1013-05-ND	1.10	.99	.82
		7.62	2.67	SAM1021-05-ND	1.10	.99	.82
		10.92	5.84	SAM1029-05-ND	1.19	1.07	.88
		13.46	5.84	SAM1038-05-ND	1.26	1.13	.93
		13.46	8.13	SAM1053-05-ND	1.26	1.13	.93
		21.08	15.74	SAM1061-05-ND	1.43	1.28	1.06
		11.30	5.84	SAM1069-05-ND	1.36	1.22	1.01
		11.58	5.84	SAM1077-05-ND	1.65	1.48	1.22
6	15.24	8.51	2.67	SAM1013-06-ND	1.15	1.03	.85
		7.62	2.67	SAM1021-06-ND	1.15	1.03	.85
		10.92	5.84	SAM1029-06-ND	1.23	1.11	.91
		13.46	5.84	SAM1038-06-ND	1.30	1.17	.96
		13.46	8.13	SAM1053-06-ND	1.30	1.17	.96
		21.08	15.74	SAM1061-06-ND	1.48	1.33	1.10
		11.30	5.84	SAM1069-06-ND	1.40	1.26	1.04
		11.58	5.84	SAM1077-06-ND	1.71	1.53	1.26
7	17.78	8.51	2.67	SAM1013-07-ND	1.20	1.08	.89
		7.62	2.67	SAM1021-07-ND	1.20	1.08	.89
		10.92	5.84	SAM1029-07-ND	1.27	1.14	.94
		13.46	5.84	SAM1038-07-ND	1.34	1.20	.99
		13.46	8.13	SAM1053-07-ND	1.34	1.20	.99
		21.08	15.74	SAM1061-07-ND	1.53	1.37	1.13
		11.30	5.84	SAM1069-07-ND	1.44	1.29	1.07
		11.58	5.84	SAM1077-07-ND	1.77	1.59	1.31
8	20.32	8.51	2.67	SAM1013-08-ND	1.25	1.12	.93
		7.62	2.67	SAM1021-08-ND	1.25	1.12	.93
		10.92	5.84	SAM1029-08-ND	1.31	1.18	.97
		13.46	5.84	SAM1038-08-ND	1.38	1.24	1.02
		13.46	8.13	SAM1053-08-ND	1.38	1.24	1.02
		21.08	15.74	SAM1061-08-ND	1.58	1.42	1.17
		11.30	5.84	SAM1069-08-ND	1.48	1.33	1.10
		11.58	5.84	SAM1077-08-ND	1.83	1.64	1.35
9	22.86	8.51	2.67	SAM1013-09-ND	1.30	1.17	.96
		7.62	2.67	SAM1021-09-ND	1.30	1.17	.96
		10.92	5.84	SAM1029-09-ND	1.35	1.21	1.00
		13.46	5.84	SAM1038-09-ND	1.42	1.28	1.05
		13.46	8.13	SAM1053-09-ND	1.42	1.28	1.05
		21.08	15.74	SAM1061-09-ND	1.63	1.46	1.21
		11.30	5.84	SAM1069-09-ND	1.52	1.36	1.12
		11.58	5.84	SAM1077-09-ND	1.89	1.70	1.40
10	25.40	8.51	2.67	SAM1013-10-ND	1.35	1.21	1.00
		7.62	2.67	SAM1021-10-ND	1.35	1.21	1.00
		10.92	5.84	SAM1029-10-ND	1.39	1.25	1.03
		13.46	5.84	SAM1038-10-ND	1.46	1.31	1.08
		13.46	8.13	SAM1053-10-ND	1.46	1.31	1.08
		21.08	15.74	SAM1061-10-ND	1.68	1.51	1.24
		11.30	5.84	SAM1069-10-ND	1.56	1.40	1.15
		11.58	5.84	SAM1077-10-ND	1.95	1.75	1.44
11	27.94	8.51	2.67	SAM1013-11-ND	1.40	1.26	1.04
		7.62	2.67	SAM1021-11-ND	1.40	1.26	1.04
		10.92	5.84	SAM1029-11-ND	1.43	1.28	1.06
		13.46	5.84	SAM1038-11-ND	1.50	1.35	1.11
		13.46	8.13	SAM1053-11-ND	1.50	1.35	1.11
		21.08	15.74	SAM1061-11-ND	1.73	1.55	1.28
		11.30	5.84	SAM1069-11-ND	1.60	1.44	1.18
		11.58	5.84	SAM1077-11-ND	2.01	1.80	1.49
12	30.48	8.51	2.67	SAM1013-12-ND	1.45	1.30	1.07
		7.62	2.67	SAM1021-12-ND	1.45	1.30	1.07
		10.92	5.84	SAM1029-12-ND	1.47	1.32	1.09
		13.46	5.84	SAM1038-12-ND	1.54	1.38	1.14
		13.46	8.13	SAM1053-12-ND	1.54	1.38	1.14
		21.08	15.74	SAM1061-12-ND	1.78	1.60	1.32
		11.30	5.84	SAM1069-12-ND	1.64	1.47	1.21
		11.58	5.84	SAM1077-12-ND	2.07	1.86	1.53
Fig. 4 — Single Row — Right Angle							
1	2.54	2.29	5.84	SAM1039-01-ND	.93	.84	.69
2	5.08	2.29	5.84	SAM1039-02-ND	.98	.88	.73
3	7.62	2.29	5.84	SAM1039-03-ND	1.03	.93	.76
4	10.16	2.29	5.84	SAM1039-04-ND	1.08	.97	.80
5	12.70	2.29	5.84	SAM1039-05-ND	1.13	1.02	.84
6	15.24	2.29	5.84	SAM1039-06-ND	1.18	1.06	.87
7	17.78	2.29	5.84	SAM1039-07-ND	1.23	1.11	.91
8	20.32	2.29	5.84	SAM1039-08-ND	1.28	1.15	.95
9	22.86	2.29	5.84	SAM1039-09-ND	1.33	1.19	.98
10	25.40	2.29	5.84	SAM1039-10-ND	1.38	1.24	1.02
11	27.94	2.29	5.84	SAM1039-11-ND	1.43	1.28	1.06
12	30.48	2.29	5.84	SAM1039-12-ND	1.48	1.33	1.10
10µ” (0.25µm) Gold on Contact, Matte Tin on Tail							
Fig. 1 — Dual Row							
2	2.54	8.51	2.67	SAM1014-01-ND	2.17	1.95	1.60
		7.62	2.67	SAM1022-01-ND	2.17	1.95	1.60
		10.92	5.84	SAM1030-01-ND	2.05	1.84	1.52
		13.46	5.84	SAM1040-01-ND	1.69	1.52	1.25
		13.46	8.13	SAM1054-01-ND	1.69	1.52	1.25
		21.08	15.74	SAM1062-01-ND	2.29	2.05	1.69
		11.30	5.84	SAM1070-01-ND	1.84	1.65	1.36
		11.58	5.84	SAM1078-01-ND	2.51	2.25	1.85
4	5.08	8.51	2.67	SAM1014-02-ND	2.25	2.02	1.66
		7.62	2.67	SAM1022-02-ND	2.25	2.02	1.66
		10.92	5.84	SAM1030-02-ND	2.12	1.90	1.57
		13.46	5.84	SAM1040-02-ND	1.77	1.59	1.31
		13.46	8.13	SAM1054-02-ND	1.77	1.59	1.31
		21.08	15.74	SAM1062-02-ND	2.38	2.13	1.76
		11.30	5.84	SAM1070-02-ND	1.92	1.72	1.42
		11.58	5.84	SAM1078-02-ND	2.62	2.35	1.94

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(Continued)

.100” (2.54mm)
Terminal Strips TSW Series *(Cont .)*

No. of	Dim. (mm)			Digi-Key	Price Each		
Pos.	A	B	C	Part No.†	1	10	100
6	7.62	8.51	2.67	SAM1014-03-ND	2.33	2.09	1.72
		7.62	2.67	SAM1022-03-ND	2.33	2.09	1.72
		10.92	5.84	SAM1030-03-ND	2.19	1.96	1.62
		13.46	5.84	SAM1040-03-ND	1.85	1.66	1.37
		13.46	8.13	SAM1054-03-ND	1.85	1.66	1.37
		21.08	15.74	SAM1062-03-ND	2.47	2.21	1.82
		11.30	5.84	SAM1070-03-ND	2.00	1.79	1.48
		11.58	5.84	SAM1078-03-ND	2.73	2.45	2.02
8	10.16	8.51	2.67	SAM1014-04-ND	2.41	2.16	1.78
		7.62	2.67	SAM1022-04-ND	2.41	2.16	1.78
		10.92	5.84	SAM1030-04-ND	2.26	2.03	1.67
		13.46	5.84	SAM1040-04-ND	1.93	1.73	1.43
		13.46	8.13	SAM1054-04-ND	1.93	1.73	1.43
		21.08	15.74	SAM1062-04-ND	2.56	2.30	1.89
		11.30	5.84	SAM1070-04-ND	2.08	1.87	1.54
		11.58	5.84	SAM1078-04-ND	2.84	2.55	2.10
10	12.70	8.51	2.67	SAM1014-05-ND	2.49	2.23	1.84
		7.62	2.67	SAM1022-05-ND	2.49	2.23	1.84
		10.92	5.84	SAM1030-05-ND	2.33	2.09	1.72
		13.46	5.84	SAM1040-05-ND	2.01	1.80	1.49
		13.46	8.13	SAM1054-05-ND	2.01	1.80	1.49
		21.08	15.74	SAM1062-05-ND	2.65	2.38	1.96
		11.30	5.84	SAM1070-05-ND	2.16	1.94	1.60
		11.58	5.84	SAM1078-05-ND	2.95	2.64	2.18
12	15.24	8.51	2.67	SAM1014-06-ND	2.57	2.30	1.90
		7.62	2.67	SAM1022-06-ND	2.57	2.30	1.90
		10.92	5.84	SAM1030-06-ND	2.40	2.15	1.77
		13.46	5.84	SAM1040-06-ND	2.09	1.87	1.54
		13.46	8.13	SAM1054-06-ND	2.09	1.87	1.54
		21.08	15.74	SAM1062-06-ND	2.74	2.46	2.02
		11.30	5.84	SAM1070-06-ND	2.24	2.01	1.66
		11.58	5.84	SAM1078-06-ND	3.06	2.74	2.26
14	17.78	8.51	2.67	SAM1014-07-ND	2.65	2.38	1.96
		7.62	2.67	SAM1022-07-ND	2.65	2.38	1.96
		10.92	5.84	SAM1030-07-ND	2.47	2.21	1.82
		13.46	5.84	SAM1040-07-ND	2.17	1.95	1.60
		13.46	8.13	SAM1054-07-ND	2.17	1.95	1.60
		21.08	15.74	SAM1062-07-ND	2.83	2.54	2.09
		11.30	5.84	SAM1070-07-ND	2.32	2.08	1.71
		11.58	5.84	SAM1078-07-ND	3.17	2.84	2.34
16	20.32	8.51	2.67	SAM1014-08-ND	2.73	2.45	2.02
		7.62	2.67	SAM1022-08-ND	2.73	2.45	2.02
		10.92	5.84	SAM1030-08-ND	2.54	2.28	1.88
		13.46	5.84	SAM1040-08-ND	2.25	2.02	1.66
		13.46	8.13	SAM1054-08-ND	2.25	2.02	1.66
		21.08	15.74	SAM1062-08-ND	2.92	2.62	2.16
		11.30	5.84	SAM1070-08-ND	2.40	2.15	1.77
		11.58	5.84	SAM1078-08-ND	3.28	2.94	2.42
18	22.86	8.51	2.67	SAM1014-09-ND	2.81	2.52	2.08
		7.62	2.67	SAM1022-09-ND	2.81	2.52	2.08
		10.92	5.84	SAM1030-09-ND	2.61	2.34	1.93
		13.46	5.84	SAM1040-09-ND	2.33	2.09	1.72
		13.46	8.13	SAM1054-09-ND	2.33	2.09	1.72
		21.08	15.74	SAM1062-09-ND	3.01	2.70	2.22
		11.30	5.84	SAM1070-09-ND	2.48	2.22	1.83
		11.58	5.84	SAM1078-09-ND	3.39	3.04	2.50
20	25.40	8.51	2.67	SAM1014-10-ND	2.89	2.59	2.13
		7.62	2.67	SAM1022-10-ND	2.89	2.59	2.13
		10.92	5.84	SAM1030-10-ND	2.68	2.40	1.98
		13.46	5.84	SAM1040-10-ND	2.41	2.16	1.78
		13.46	8.13	SAM1054-10-ND	2.41	2.16	1.78
		21.08	15.74	SAM1062-10-ND	3.10	2.78	2.29
		11.30	5.84	SAM1070-10-ND	2.56	2.30	1.89
		11.58	5.84	SAM1078-10-ND	3.50	3.14	2.58
22	27.94	8.51	2.67	SAM1014-11-ND	2.97	2.66	2.19
		7.62	2.67	SAM1022-11-ND	2.97	2.66	2.19
		10.92	5.84	SAM1030-11-ND	2.75	2.47	2.03
		13.46	5.84	SAM1040-11-ND	2.49	2.23	1.84
		13.46	8.13	SAM1054-11-ND	2.49	2.23	1.84
		21.08	15.74	SAM1062-11-ND	3.19	2.86	2.36
		11.30	5.84	SAM1070-11-ND	2.64	2.37	1.95
		11.58	5.84	SAM1078-11-ND	3.61	3.23	2.66
24	30.48	8.51	2.67	SAM1014-12-ND	3.05	2.73	2.25
		7.62	2.67	SAM1022-12-ND	3.05	2.73	2.25
		10.92	5.84	SAM1030-12-ND	2.82	2.53	2.08
		13.46	5.84	SAM1040-12-ND	2.57	2.30	1.90
		13.46	8.13	SAM1054-12-ND	2.57	2.30	1.90
		21.08	15.74	SAM1062-12-ND	3.28	2.94	2.42
		11.30	5.84	SAM1070-12-ND	2.72	2.44	2.01
		11.58	5.84	SAM1078-12-ND	3.72	3.33	2.75
Fig. 2 — Dual Row — Right Angle							
2	2.54	2.29	5.84	SAM1041-01-ND	2.23	2.00	1.65
4	5.08	2.29	5.84	SAM1041-02-ND	2.31	2.07	1.71
6	7.62	2.29	5.84	SAM1041-03-ND	2.39	2.14	1.77
8	10.16	2.29	5.84	SAM1041-04-ND	2.47	2.21	1.82
10	12.70	2.29	5.84	SAM1041-05-ND	2.55	2.29	1.88
12	15.24	2.29	5.84	SAM1041-06-ND	2.63	2.36	1.94
14	17.78	2.29	5.84	SAM1041-07-ND	2.71	2.43	2.00
16	20.32	2.29	5.84	SAM1041-08-ND	2.79	2.50	2.06
18	22.86	2.29	5.84	SAM1041-09-ND	2.87	2.57	2.12
20	25.40	2.29	5.84	SAM1041-10-ND	2.95	2.64	2.18
22	27.94	2.29	5.84	SAM1041-11-ND	3.03	2.72	2.24
24	30.48	2.29	5.84	SAM1041-12-ND	3.11	2.79	2.30
Fig. 3 — Single Row							
1	2.54	8.51	2.67	SAM1015-01-ND	1.07	.96	.79
		7.62	2.67	SAM1023-01-ND	1.07	.96	.79
		10.92	5.84	SAM1031-01-ND	.77	.69	.57
		13.46	5.84	SAM1042-01-ND	.84	.76	.62
		13.46	8.13	SAM1055-01-ND	.84	.76	.62
		21.08	15.74	SAM1063-01-ND	.93	.84	.69
2	5.08	8.51	2.67	SAM1015-02-ND	1.11	1.00	.82
		7.62	2.67	SAM1023-02-ND	1.11	1.00	.82
		10.92	5.84	SAM1031-02-ND	.81	.73	.60
		13.46	5.84	SAM1042-02-ND	.88	.79	.65
		13.46	8.13	SAM1055-02-ND	.88	.79	.65
		21.08	15.74	SAM1063-02-ND	.98	.88	.73
		11.30	5.84	SAM1071-02-ND	.95	.85	.70
		11.58	5.84	SAM1079-02-ND	1.55	1.39	1.15
3	7.62	8.51	2.67	SAM1015-03-ND	1.15	1.03	.85
		7.62	2.67	SAM1023-03-ND	1.15	1.03	.85
		10.92	5.84	SAM1031-03-ND	.85	.77	.63
		13.46	5.84	SAM1042-03-ND	.92	.83	.68
		13.46	8.13	SAM1055-03-ND	.92	.83	.68
		21.08	15.74	SAM1063-03-ND	1.03	.93	.76
		11.30	5.84	SAM1071-03-ND	.99	.89	.73
		11.58	5.84	SAM1079-03-ND	1.60	1.44	1.18
4	10.16	8.51	2.67	SAM1015-04-ND	1.19	1.07	.88
		7.62	2.67	SAM1023-04-ND	1.19	1.07	.88
		10.92	5.84	SAM1031-04-ND	.89	.80	.66
		13.46	5.84	SAM1042-04-ND	.96	.86	.71
		13.46	8.13	SAM1055-04-ND	.96	.86	.71
		21.08	15.74	SAM1063-04-ND	1.08	.97	.80
		11.30	5.84	SAM1071-04-ND	1.03	.93	.76
		11.58	5.84	SAM1079-04-ND	1.65	1.48	1.22
5	12.70	8.51	2.67	SAM1015-05-ND	1.23	1.11	.91
		7.62	2.67	SAM1023-05-ND	1.23	1.11	.91
		10.92	5.84	SAM1031-05-ND	.93	.84	.69
		13.46	5.84	SAM1042-05-ND	1.00	.90	.74
		13.46	8.13	SAM1055-05-ND	1.00	.90	.74
		21.08	15.74	SAM1063-05-ND	1.13	1.02	.84
		11.30	5.84	SAM1071-05-ND	1.07	.96	.79
		11.58	5.84	SAM1079-05-ND	1.70	1.53	1.26
6	15.24	8.51	2.67	SAM1015-06-ND	1.27	1.14	.94
		7.62	2.67	SAM1023-06-ND	1.27	1.14	.94
		10.92	5.84	SAM1031-06-ND	.97	.87	.72
		13.46	5.84	SAM1042-06-ND	1.04	.94	.77
		13.46	8.13	SAM1055-06-ND	1.04	.94	.77
		21.08	15.74	SAM1063-06-ND	1.18	1.06	.87
		11.30	5.84	SAM1071-06-ND	1.11	1.00	.82
		11.58	5.84	SAM1079-06-ND	1.75	1.57	1.29
7	17.78	8.51	2.67	SAM1015-07-ND	1.31	1.18	.97
		7.62	2.67	SAM1023-07-ND	1.31	1.18	.97
		10.92	5.84	SAM1031-07-ND	1.01	.91	.75
		13.46	5.84	SAM1042-07-ND	1.08	.97	.80
		13.46	8.13	SAM1055-07-ND	1.08	.97	.80
		21.08	15.74	SAM1063-07-ND	1.23	1.11	.91
		11.30	5.84	SAM1071-07-ND	1.15	1.03	.85
		11.58	5.84	SAM1079-07-ND	1.80	1.62	1.33
8	20.32	8.51	2.67	SAM1015-08-ND	1.35	1.21	1.00
		7.62	2.67	SAM1023-08-ND	1.35	1.21	1.00
		10.92	5.84	SAM1031-08-ND	1.05	.94	.78
		13.46	5.84	SAM1042-08-ND	1.12	1.01	.83
		13.46	8.13	SAM1055-08-ND	1.12	1.01	.83
		21.08	15.74	SAM1063-08-ND	1.28	1.15	.95
		11.30	5.84	SAM1071-08-ND	1.19	1.07	.88
		11.58	5.84	SAM1079-08-ND	1.85	1.66	1.37
9	22.86	8.51	2.67	SAM1015-09-ND	1.39	1.25	1.03
		7.62	2.67	SAM1023-09-ND	1.39	1.25	1.03
		10.92	5.84	SAM1031-09-ND	1.09	.98	.81
		13.46	5.84	SAM1042-09-ND	1.16	1.04	.86
		13.46	8.13	SAM1055-09-ND	1.16	1.04	.86
		21.08	15.74	SAM1063-09-ND	1.33	1.19	.98
		11.30	5.84	SAM1071-09-ND	1.23	1.11	.91
		11.58	5.84	SAM1079-09-ND	1.90	1.70	1.40
10	25.40	8.51	2.67	SAM1015-10-ND	1.43	1.28	1.06
		7.62	2.67	SAM1023-10-ND	1.43	1.28	1.06
		10.92	5.84	SAM1031-10-ND	1.13	1.02	.84
		13.46	5.84	SAM1042-10-ND	1.20	1.08	.89
		13.46	8.13	SAM1055-10-ND	1.20	1.08	.89
		21.08	15.74	SAM1063-10-ND	1.38	1.24	1.02
		11.30	5.84	SAM1071-10-ND	1.27	1.14	.94
		11.58	5.84	SAM1079-10-ND	1.95	1.75	1.44
11	27.94	8.51	2.67	SAM1015-11-ND	1.47	1.32	1.09
		7.62	2.67	SAM1023-11-ND	1.47	1.32	1.09
		10.92	5.84	SAM1031-11-ND	1.17	1.05	.87
		13.46	5.84	SAM1042-11-ND	1.24	1.11	.92
		13.46	8.13	SAM1055-11-ND	1.24	1.11	.92
		21.08	15.74	SAM1063-11-ND	1.43	1.28	1.06
		11.30	5.84	SAM1071-11-ND	1.31	1.18	.97
		11.58	5.84	SAM1079-11-ND	2.00	1.79	1.48
12	30.48	8.51	2.67	SAM1015-12-ND	1.51	1.36	1.12
		7.62	2.67	SAM1023-12-ND	1.51	1.36	1.12
		10.92	5.84	SAM1031-12-ND	1.21	1.09	.90
		13.46	5.84	SAM1042-12-ND	1.28	1.15	.95
		13.46	8.13	SAM1055-12-ND	1.28	1.15	.95
		21.08	15.74	SAM1063-12-ND	1.48	1.33	1.10
		11.30	5.84	SAM1071-12-ND	1.35	1.21	1.00
		11.58	5.84	SAM1079-12-ND	2.05	1.84	1.52
13	33.02	11.30	5.84	SAM1071-13-ND	1.39	1.25	1.03
		11.58	5.84	SAM1079-13-ND	2.10	1.88	1.55
Fig. 4 — Single Row — Right Angle							
1	2.54	2.29	5.84	SAM1043-01-ND	1.13	1.02	.84
2	5.08	2.29	5.84	SAM1043-02-ND	1.17	1.05	.87
3	7.62	2.29	5.84	SAM1043-03-ND	1.21	1.09	.90
4	10.16	2.29	5.84	SAM1043-04-ND	1.25	1.12	.93
5	12.70	2.29	5.84	SAM1043-05-ND	1.29	1.16	.96
6	15.24	2.29	5.84	SAM1043-06-ND	1.33	1.19	.98
7	17.78	2.29	5.84	SAM1043-07-ND	1.37	1.23	1.01
8	20.32	2.29	5.84	SAM1043-08-ND	1.41	1.27	1.04
9	22.86	2.29	5.84	SAM1043-09-ND	1.45	1.30	1.07
10	25.40	2.29	5.84	SAM1043-10-ND	1.49	1.34	1.10
11	27.94	2.29	5.84	SAM1043-11-ND	1.53	1.37	1.13
12	30.48	2.29	5.84	SAM1043-12-ND	1.57	1.41	1.16
30µ” (0.76µm) Gold on Contact, Matte Tin on Tail							
Fig. 1 — Dual Row							
2	2.54	8.51	2.67	SAM1016-01-ND	3.06	2.74	2.26
		7.62	2.67	SAM1024-01-ND	3.06	2.74	2.26
		10.92	5.84	SAM1032-01-ND	2.69	2.41	1.99
		13.46	5.84	SAM1044-01-ND	2.87	2.57	2.12
		13.46	8.13	SAM1056-01-ND	2.87	2.57	2.12
		21.08	15.74	SAM1064-01-ND	2.94	2.64	2.17
		11.30	5.84	SAM1072-01-ND	2.57	2.30	1.90
		11.58	5.84	SAM1080-01-ND	3.61	3.23	2.66
4	5.08	8.51	2.67	SAM1016-02-ND	3.17	2.84	2.34
		7.62	2.67	SAM1024-02-ND	3.17	2.84	2.34
		10.92	5.84	SAM1032-02-ND	2.79	2.50	2.06
		13.46	5.84	SAM1044-02-ND	2.97	2.66	2.19
		13.46	8.13	SAM1056-02-ND	2.97	2.66	2.19
		21.08	15.74	SAM1064-02-ND	3.07	2.75	2.27
		11.30	5.84	SAM1072-02-ND	2.68	2.40	1.98
		11.58	5.84	SAM1080-02-ND	3.76	3.37	2.78
6	7.62	8.51	2.67	SAM1016-03-ND	3.28	2.94	2.42
		7.62	2.67	SAM1024-03-ND	3.28	2.94	2.42
		10.92	5.84	SAM1032-03-ND	2.89	2.59	2.13
		13.46	5.84	SAM1044-03-ND	3.07	2.75	2.27
		13.46	8.13	SAM1056-03-ND	3.07	2.75	2.27
		21.08	15.74	SAM1064-03-ND	3.20	2.87	2.36
		11.30	5.84	SAM1072-03-ND	2.79	2.50	2.06
		11.58	5.84	SAM1080-03-ND	3.91	3.50	2.89
8	10.16	8.51	2.67	SAM1016-04-ND	3.39	3.04	2.50
		7.62	2.67	SAM1024-04-ND	3.39	3.04	2.50
		10.92	5.84	SAM1032-04-ND	2.99	2.68	2.21
		13.46	5.84	SAM1044-04-ND	3.17	2.84	2.34
		13.46	8.13	SAM1056-04-ND	3.17	2.84	2.34
		21.08	15.74	SAM1064-04-ND	3.33	2.98	2.46
		11.30	5.84	SAM1072-04-ND	2.90	2.60	2.14
		11.58	5.84	SAM1080-04-ND	4.06	3.64	3.00
10	12.70	8.51	2.67	SAM1016-05-ND	3.50	3.14	2.58
		7.62	2.67	SAM1024-05-ND	3.50	3.14	2.58
		10.92	5.84	SAM1032-05-ND	3.09	2.77	2.28
		13.46	5.84	SAM1044-05-ND	3.27	2.93	2.41
		13.46	8.13	SAM1056-05-ND	3.27	2.93	2.41
		21.08	15.74	SAM1064-05-ND	3.46	3.10	2.55
		11.30	5.84	SAM1072-05-ND	3.01	2.70	2.22
		11.58	5.84	SAM1080-05-ND	4.21	3.77	3.11
12	15.24	8.51	2.67	SAM1016-06-ND	3.61	3.23	2.66
		7.62	2.67	SAM1024-06-ND	3.61	3.23	2.66
		10.92	5.84	SAM1032-06-ND	3.19	2.86	2.36
		13.46	5.84	SAM1044-06-ND	3.37	3.02	2.49
		13.46	8.13	SAM1056-06-ND	3.37	3.02	2.49
		21.08	15.74	SAM1064-06-ND	3.59	3.22	2.65
		11.30	5.84	SAM1072-06-ND	3.12	2.80	2.30
		11.58	5.84	SAM1080-06-ND	4.36	3.91	3.22
14	17.78	8.51	2.67	SAM1016-07-ND	3.72	3.33	2.75
		7.62	2.67	SAM1024-07-ND	3.72	3.33	2.75
		10.92	5.84	SAM1032-07-ND	3.29	2.95	2.43
		13.46	5.84	SAM1044-07-ND	3.47	3.11	2.56
		13.46	8.13	SAM1056-07-ND	3.47	3.11	2.56
		21.08	15.74	SAM1064-07-ND	3.72	3.33	2.75
		11.30	5.84	SAM1072-07-ND	3.23	2.89	2.38
		11.58	5.84	SAM1080-07-ND	4.51	4.04	3.33

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No. of	Dim. (mm)			Digi-Key	Price Each		
Pos.	A	B	C	Part No.†	1	10	100
16	20.32	8.51	2.67	SAM1016-08-ND	3.83	3.43	2.83
		7.62	2.67	SAM1024-08-ND	3.83	3.43	2.83
		10.92	5.84	SAM1032-08-ND	3.39	3.04	2.50
		13.46	5.84	SAM1044-08-ND	3.57	3.20	2.64
		13.46	8.13	SAM1056-08-ND	3.57	3.20	2.64
		21.08	15.74	SAM1064-08-ND	3.85	3.45	2.84
		11.30	5.84	SAM1072-08-ND	3.34	2.99	2.47
		11.58	5.84	SAM1080-08-ND	4.66	4.17	3.44
18	22.86	8.51	2.67	SAM1016-09-ND	3.94	3.53	2.91
		7.62	2.67	SAM1024-09-ND	3.94	3.53	2.91
		10.92	5.84	SAM1032-09-ND	3.49	3.13	2.58
		13.46	5.84	SAM1044-09-ND	3.67	3.29	2.71
		13.46	8.13	SAM1056-09-ND	3.67	3.29	2.71
		21.08	15.74	SAM1064-09-ND	3.98	3.57	2.94
		11.30	5.84	SAM1072-09-ND	3.45	3.09	2.55
		11.58	5.84	SAM1080-09-ND	4.81	4.31	3.55
20	25.40	8.51	2.67	SAM1016-10-ND	4.05	3.63	2.99
		7.62	2.67	SAM1024-10-ND	4.05	3.63	2.99
		10.92	5.84	SAM1032-10-ND	3.59	3.22	2.65
		13.46	5.84	SAM1044-10-ND	3.77	3.38	2.78
		13.46	8.13	SAM1056-10-ND	3.77	3.38	2.78
		21.08	15.74	SAM1064-10-ND	4.11	3.68	3.03
		11.30	5.84	SAM1072-10-ND	3.56	3.19	2.63
		11.58	5.84	SAM1080-10-ND	4.96	4.44	3.66
22	27.94	8.51	2.67	SAM1016-11-ND	4.16	3.73	3.07
		7.62	2.67	SAM1024-11-ND	4.16	3.73	3.07
		10.92	5.84	SAM1032-11-ND	3.69	3.31	2.72
		13.46	5.84	SAM1044-11-ND	3.87	3.47	2.86
		13.46	8.13	SAM1056-11-ND	3.87	3.47	2.86
		21.08	15.74	SAM1064-11-ND	4.24	3.80	3.13
		11.30	5.84	SAM1072-11-ND	3.67	3.29	2.71
		11.58	5.84	SAM1080-11-ND	5.11	4.58	3.77
24	30.48	8.51	2.67	SAM1016-12-ND	4.27	3.83	3.15
		7.62	2.67	SAM1024-12-ND	4.27	3.83	3.15
		10.92	5.84	SAM1032-12-ND	3.79	3.40	2.80
		13.46	5.84	SAM1044-12-ND	3.97	3.56	2.93
		13.46	8.13	SAM1056-12-ND	3.97	3.56	2.93
		21.08	15.74	SAM1064-12-ND	4.37	3.91	3.22
		11.30	5.84	SAM1072-12-ND	3.78	3.39	2.79
		11.58	5.84	SAM1080-12-ND	5.26	4.71	3.88
Fig. 2 — Dual Row — Right Angle							
2	2.54	2.29	5.84	SAM1045-01-ND	2.70	2.42	1.99
4	5.08	2.29	5.84	SAM1045-02-ND	2.82	2.53	2.08
6	7.62	2.29	5.84	SAM1045-03-ND	2.94	2.64	2.17
8	10.16	2.29	5.84	SAM1045-04-ND	3.06	2.74	2.26
10	12.70	2.29	5.84	SAM1045-05-ND	3.18	2.85	2.35
12	15.24	2.29	5.84	SAM1045-06-ND	3.30	2.96	2.44
14	17.78	2.29	5.84	SAM1045-07-ND	3.42	3.06	2.52
16	20.32	2.29	5.84	SAM1045-08-ND	3.54	3.17	2.61
18	22.86	2.29	5.84	SAM1045-09-ND	3.66	3.28	2.70
20	25.40	2.29	5.84	SAM1045-10-ND	3.78	3.39	2.79
22	27.94	2.29	5.84	SAM1045-11-ND	3.90	3.49	2.88
24	30.48	2.29	5.84	SAM1045-12-ND	4.02	3.60	2.97
Fig. 3 — Single Row							
1	2.54	8.51	2.67	SAM1017-01-ND	1.29	1.16	.96
		7.62	2.67	SAM1025-01-ND	1.29	1.16	.96
		10.92	5.84	SAM1033-01-ND	1.34	1.20	.99
		13.46	5.84	SAM1046-01-ND	1.44	1.29	1.07
		13.46	8.13	SAM1057-01-ND	1.44	1.29	1.07
		21.08	15.74	SAM1065-01-ND	1.71	1.53	1.26
		11.30	5.84	SAM1073-01-ND	1.53	1.37	1.13
		11.58	5.84	SAM1081-01-ND	2.05	1.84	1.52
2	5.08	8.51	2.67	SAM1017-02-ND	1.35	1.21	1.00
		7.62	2.67	SAM1025-02-ND	1.35	1.21	1.00
		10.92	5.84	SAM1033-02-ND	1.39	1.25	1.03
		13.46	5.84	SAM1046-02-ND	1.49	1.34	1.10
		13.46	8.13	SAM1057-02-ND	1.49	1.34	1.10
		21.08	15.74	SAM1065-02-ND	1.77	1.59	1.31
		11.30	5.84	SAM1073-02-ND	1.58	1.42	1.17
		11.58	5.84	SAM1081-02-ND	2.12	1.90	1.57
3	7.62	8.51	2.67	SAM1017-03-ND	1.41	1.27	1.04
		7.62	2.67	SAM1025-03-ND	1.41	1.27	1.04
		10.92	5.84	SAM1033-03-ND	1.44	1.29	1.07
		13.46	5.84	SAM1046-03-ND	1.54	1.38	1.14
		13.46	8.13	SAM1057-03-ND	1.54	1.38	1.14
		21.08	15.74	SAM1065-03-ND	1.83	1.64	1.35
		11.30	5.84	SAM1073-03-ND	1.63	1.46	1.21
		11.58	5.84	SAM1081-03-ND	2.19	1.96	1.62
4	10.16	8.51	2.67	SAM1017-04-ND	1.47	1.32	1.09
		7.62	2.67	SAM1025-04-ND	1.47	1.32	1.09
		10.92	5.84	SAM1033-04-ND	1.49	1.34	1.10
		13.46	5.84	SAM1046-04-ND	1.59	1.43	1.18
		13.46	8.13	SAM1057-04-ND	1.59	1.43	1.18
		21.08	15.74	SAM1065-04-ND	1.89	1.70	1.40
		11.30	5.84	SAM1073-04-ND	1.68	1.51	1.24
		11.58	5.84	SAM1081-04-ND	2.26	2.03	1.67
5	12.70	8.51	2.67	SAM1017-05-ND	1.53	1.37	1.13
		7.62	2.67	SAM1025-05-ND	1.53	1.37	1.13
		10.92	5.84	SAM1033-05-ND	1.54	1.38	1.14
		13.46	5.84	SAM1046-05-ND	1.64	1.47	1.21
		13.46	8.13	SAM1057-05-ND	1.64	1.47	1.21
		21.08	15.74	SAM1065-05-ND	1.95	1.75	1.44
		11.30	5.84	SAM1073-05-ND	1.73	1.55	1.28
		11.58	5.84	SAM1081-05-ND	2.33	2.09	1.72
6	15.24	8.51	2.67	SAM1017-06-ND	1.59	1.43	1.18
		7.62	2.67	SAM1025-06-ND	1.59	1.43	1.18
		10.92	5.84	SAM1033-06-ND	1.59	1.43	1.18
		13.46	5.84	SAM1046-06-ND	1.69	1.52	1.25
		13.46	8.13	SAM1057-06-ND	1.69	1.52	1.25
		21.08	15.74	SAM1065-06-ND	2.01	1.80	1.49
		11.30	5.84	SAM1073-06-ND	1.78	1.60	1.32
		11.58	5.84	SAM1081-06-ND	2.40	2.15	1.77
7	17.78	8.51	2.67	SAM1017-07-ND	1.65	1.48	1.22
		7.62	2.67	SAM1025-07-ND	1.65	1.48	1.22
		10.92	5.84	SAM1033-07-ND	1.64	1.47	1.21
		13.46	5.84	SAM1046-07-ND	1.74	1.56	1.29
		13.46	8.13	SAM1057-07-ND	1.74	1.56	1.29
		21.08	15.74	SAM1065-07-ND	2.07	1.86	1.53
		11.30	5.84	SAM1073-07-ND	1.83	1.64	1.35
		11.58	5.84	SAM1081-07-ND	2.47	2.21	1.82
8	20.32	8.51	2.67	SAM1017-08-ND	1.71	1.53	1.26
		7.62	2.67	SAM1025-08-ND	1.71	1.53	1.26
		10.92	5.84	SAM1033-08-ND	1.69	1.52	1.25
		13.46	5.84	SAM1046-08-ND	1.79	1.61	1.32
		13.46	8.13	SAM1057-08-ND	1.79	1.61	1.32
		21.08	15.74	SAM1065-08-ND	2.13	1.91	1.57
		11.30	5.84	SAM1073-08-ND	1.88	1.69	1.39
		11.58	5.84	SAM1081-08-ND	2.54	2.28	1.88
9	22.86	8.51	2.67	SAM1017-09-ND	1.77	1.59	1.31
		7.62	2.67	SAM1025-09-ND	1.77	1.59	1.31
		10.92	5.84	SAM1033-09-ND	1.74	1.56	1.29
		13.46	5.84	SAM1046-09-ND	1.84	1.65	1.36
		13.46	8.13	SAM1057-09-ND	1.84	1.65	1.36
		21.08	15.74	SAM1065-09-ND	2.19	1.96	1.62
		11.30	5.84	SAM1073-09-ND	1.93	1.73	1.43
		11.58	5.84	SAM1081-09-ND	2.61	2.34	1.93
10	25.40	8.51	2.67	SAM1017-10-ND	1.83	1.64	1.35
		7.62	2.67	SAM1025-10-ND	1.83	1.64	1.35
		10.92	5.84	SAM1033-10-ND	1.79	1.61	1.32
		13.46	5.84	SAM1046-10-ND	1.89	1.70	1.40
		13.46	8.13	SAM1057-10-ND	1.89	1.70	1.40
		21.08	15.74	SAM1065-10-ND	2.25	2.02	1.66
		11.30	5.84	SAM1073-10-ND	1.98	1.78	1.46
		11.58	5.84	SAM1081-10-ND	2.68	2.40	1.98
11	27.94	8.51	2.67	SAM1017-11-ND	1.89	1.70	1.40
		7.62	2.67	SAM1025-11-ND	1.89	1.70	1.40
		10.92	5.84	SAM1033-11-ND	1.84	1.65	1.36
		13.46	5.84	SAM1046-11-ND	1.94	1.74	1.43
		13.46	8.13	SAM1057-11-ND	1.94	1.74	1.43
		21.08	15.74	SAM1065-11-ND	2.31	2.07	1.71
		11.30	5.84	SAM1073-11-ND	2.03	1.82	1.50
		11.58	5.84	SAM1081-11-ND	2.75	2.47	2.03
12	30.48	8.51	2.67	SAM1017-12-ND	1.95	1.75	1.44
		7.62	2.67	SAM1025-12-ND	1.95	1.75	1.44
		10.92	5.84	SAM1033-12-ND	1.89	1.70	1.40
		13.46	5.84	SAM1046-12-ND	1.99	1.79	1.47
		13.46	8.13	SAM1057-12-ND	1.99	1.79	1.47
		21.08	15.74	SAM1065-12-ND	2.37	2.13	1.75
		11.30	5.84	SAM1073-12-ND	2.08	1.87	1.54
		11.58	5.84	SAM1081-12-ND	2.82	2.53	2.08
Fig. 4 — Single Row — Right Angle							
1	2.54	2.29	5.84	SAM1047-01-ND	1.35	1.21	1.00
2	5.08	2.29	5.84	SAM1047-02-ND	1.41	1.27	1.04
3	7.62	2.29	5.84	SAM1047-03-ND	1.47	1.32	1.09
4	10.16	2.29	5.84	SAM1047-04-ND	1.53	1.37	1.13
5	12.70	2.29	5.84	SAM1047-05-ND	1.59	1.43	1.18
6	15.24	2.29	5.84	SAM1047-06-ND	1.65	1.48	1.22
7	17.78	2.29	5.84	SAM1047-07-ND	1.71	1.53	1.26
8	20.32	2.29	5.84	SAM1047-08-ND	1.77	1.59	1.31
9	22.86	2.29	5.84	SAM1047-09-ND	1.83	1.64	1.35
10	25.40	2.29	5.84	SAM1047-10-ND	1.89	1.70	1.40
11	27.94	2.29	5.84	SAM1047-11-ND	1.95	1.75	1.44
12	30.48	2.29	5.84	SAM1047-12-ND	2.01	1.80	1.49
Matte Tin							
Fig. 1 — Dual Row							
2	2.54	8.51	2.67	SAM1018-01-ND	1.47	1.32	1.09
		7.62	2.67	SAM1026-01-ND	1.47	1.32	1.09
		10.92	5.84	SAM1034-01-ND	1.47	1.32	1.09
		13.46	5.84	SAM1048-01-ND	1.56	1.40	1.15
		13.46	8.13	SAM1058-01-ND	1.56	1.40	1.15
		21.08	15.74	SAM1066-01-ND	1.96	1.76	1.45
		11.30	5.84	SAM1074-01-ND	1.68	1.51	1.24
		11.58	5.84	SAM1082-01-ND	1.93	1.73	1.43
4	5.08	8.51	2.67	SAM1018-02-ND	1.54	1.38	1.14
		7.62	2.67	SAM1026-02-ND	1.54	1.38	1.14
		10.92	5.84	SAM1034-02-ND	1.53	1.37	1.13
		13.46	5.84	SAM1048-02-ND	1.62	1.45	1.20
		13.46	8.13	SAM1058-02-ND	1.62	1.45	1.20
		21.08	15.74	SAM1066-02-ND	2.03	1.82	1.50
		11.30	5.84	SAM1074-02-ND	1.74	1.56	1.29
		11.58	5.84	SAM1082-02-ND	2.02	1.81	1.49
6	7.62	8.51	2.67	SAM1018-03-ND	1.61	1.45	1.19
		7.62	2.67	SAM1026-03-ND	1.61	1.45	1.19
		10.92	5.84	SAM1034-03-ND	1.59	1.43	1.18
		13.46	5.84	SAM1048-03-ND	1.68	1.51	1.24
		13.46	8.13	SAM1058-03-ND	1.68	1.51	1.24
		21.08	15.74	SAM1066-03-ND	2.10	1.88	1.55
		11.30	5.84	SAM1074-03-ND	1.80	1.62	1.33
		11.58	5.84	SAM1082-03-ND	2.11	1.89	1.56
8	10.16	8.51	2.67	SAM1018-04-ND	1.68	1.51	1.24
		7.62	2.67	SAM1026-04-ND	1.68	1.51	1.24
		10.92	5.84	SAM1034-04-ND	1.65	1.48	1.22
		13.46	5.84	SAM1048-04-ND	1.74	1.56	1.29
		13.46	8.13	SAM1058-04-ND	1.74	1.56	1.29
		21.08	15.74	SAM1066-04-ND	2.17	1.95	1.60
		11.30	5.84	SAM1074-04-ND	1.86	1.67	1.38
		11.58	5.84	SAM1082-04-ND	2.20	1.97	1.63
10	12.70	8.51	2.67	SAM1018-05-ND	1.75	1.57	1.29
		7.62	2.67	SAM1026-05-ND	1.75	1.57	1.29
		10.92	5.84	SAM1034-05-ND	1.71	1.53	1.26
		13.46	5.84	SAM1048-05-ND	1.80	1.62	1.33
		13.46	8.13	SAM1058-05-ND	1.80	1.62	1.33
		21.08	15.74	SAM1066-05-ND	2.24	2.01	1.66
		11.30	5.84	SAM1074-05-ND	1.92	1.72	1.42
		11.58	5.84	SAM1082-05-ND	2.29	2.05	1.69
12	15.24	8.51	2.67	SAM1018-06-ND	1.82	1.63	1.35
		7.62	2.67	SAM1026-06-ND	1.82	1.63	1.35
		10.92	5.84	SAM1034-06-ND	1.77	1.59	1.31
		13.46	5.84	SAM1048-06-ND	1.86	1.67	1.38
		13.46	8.13	SAM1058-06-ND	1.86	1.67	1.38
		21.08	15.74	SAM1066-06-ND	2.31	2.07	1.71
		11.30	5.84	SAM1074-06-ND	1.98	1.78	1.46
		11.58	5.84	SAM1082-06-ND	2.38	2.13	1.76
14	17.78	8.51	2.67	SAM1018-07-ND	1.89	1.70	1.40
		7.62	2.67	SAM1026-07-ND	1.89	1.70	1.40
		10.92	5.84	SAM1034-07-ND	1.83	1.64	1.35
		13.46	5.84	SAM1048-07-ND	1.92	1.72	1.42
		13.46	8.13	SAM1058-07-ND	1.92	1.72	1.42
		21.08	15.74	SAM1066-07-ND	2.38	2.13	1.76
		11.30	5.84	SAM1074-07-ND	2.04	1.83	1.51
		11.58	5.84	SAM1082-07-ND	2.47	2.21	1.82
16	20.32	8.51	2.67	SAM1018-08-ND	1.96	1.76	1.45
		7.62	2.67	SAM1026-08-ND	1.96	1.76	1.45
		10.92	5.84	SAM1034-08-ND	1.89	1.70	1.40
		13.46	5.84	SAM1048-08-ND	1.98	1.78	1.46
		13.46	8.13	SAM1058-08-ND	1.98	1.78	1.46
		21.08	15.74	SAM1066-08-ND	2.45	2.20	1.81
		11.30	5.84	SAM1074-08-ND	2.10	1.88	1.55
		11.58	5.84	SAM1082-08-ND	2.56	2.30	1.89
18	22.86	8.51	2.67	SAM1018-09-ND	2.03	1.82	1.50
		7.62	2.67	SAM1026-09-ND	2.03	1.82	1.50
		10.92	5.84	SAM1034-09-ND	1.95	1.75	1.44
		13.46	5.84	SAM1048-09-ND	2.04	1.83	1.51
		13.46	8.13	SAM1058-09-ND	2.04	1.83	1.51
		21.08	15.74	SAM1066-09-ND	2.52	2.26	1.86
		11.30	5.84	SAM1074-09-ND	2.16	1.94	1.60
		11.58	5.84	SAM1082-09-ND	2.65	2.38	1.96
20	25.40	8.51	2.67	SAM1018-10-ND	2.10	1.88	1.55
		7.62	2.67	SAM1026-10-ND	2.10	1.88	1.55
		10.92	5.84	SAM1034-10-ND	2.01	1.80	1.49
		13.46	5.84	SAM1048-10-ND	2.10	1.88	1.55
		13.46	8.13	SAM1058-10-ND	2.10	1.88	1.55
		21.08	15.74	SAM1066-10-ND	2.59	2.32	1.91
		11.30	5.84	SAM1074-10-ND	2.22	1.99	1.64
		11.58	5.84	SAM1082-10-ND	2.74	2.46	2.02
22	27.94	8.51	2.67	SAM1018-11-ND	2.17	1.95	1.60
		7.62	2.67	SAM1026-11-ND	2.17	1.95	1.60
		10.92	5.84	SAM1034-11-ND	2.07	1.86	1.53
		13.46	5.84	SAM1048-11-ND	2.16	1.94	1.60
		13.46	8.13	SAM1058-11-ND	2.16	1.94	1.60
		21.08	15.74	SAM1066-11-ND	2.66	2.38	1.96
		11.30	5.84	SAM1074-11-ND	2.28	2.04	1.68
		11.58	5.84	SAM1082-11-ND	2.83	2.54	2.09
24	30.48	8.51	2.67	SAM1018-12-ND	2.24	2.01	1.66
		7.62	2.67	SAM1026-12-ND	2.24	2.01	1.66
		10.92	5.84	SAM1034-12-ND	2.13	1.91	1.57
		13.46	5.84	SAM1048-12-ND	2.22	1.99	1.64
		13.46	8.13	SAM1058-12-ND	2.22	1.99	1.64
		21.08	15.74	SAM1066-12-ND	2.73	2.45	2.02
		11.30	5.84	SAM1074-12-ND	2.34	2.10	1.73
		11.58	5.84	SAM1082-12-ND	2.92	2.62	2.16

† More product available online.
For pricing and availability, visit our website.

(Continued)

.100” (2.54mm)
Terminal Strips TSW Series *(Cont.)*

No. of Pos.	Dim. (mm) A	B	C	Digi-Key Part No.†	Price Each 1	10	100
Fig. 2— Dual Row — Right Angle							
2	2.54	2.29	5.84	SAM1049-01-ND	1.54	1.38	1.14
4	5.08	2.29	5.84	SAM1049-02-ND	1.61	1.45	1.19
6	7.62	2.29	5.84	SAM1049-03-ND	1.68	1.51	1.24
8	10.16	2.29	5.84	SAM1049-04-ND	1.75	1.57	1.29
10	12.70	2.29	5.84	SAM1049-05-ND	1.82	1.63	1.35
12	15.24	2.29	5.84	SAM1049-06-ND	1.89	1.70	1.40
14	17.78	2.29	5.84	SAM1049-07-ND	1.96	1.76	1.45
16	20.32	2.29	5.84	SAM1049-08-ND	2.03	1.82	1.50
18	22.86	2.29	5.84	SAM1049-09-ND	2.10	1.88	1.55
20	25.40	2.29	5.84	SAM1049-10-ND	2.17	1.95	1.60
22	27.94	2.29	5.84	SAM1049-11-ND	2.24	2.01	1.66
24	30.48	2.29	5.84	SAM1049-12-ND	2.31	2.07	1.71
Fig. 3 — Single Row							
1	2.54	8.51	2.67	SAM1019-01-ND	.97	.87	.72
		7.62	2.67	SAM1027-01-ND	.97	.87	.72
		10.92	5.84	SAM1035-01-ND	.72	.65	.54
		13.46	5.84	SAM1050-01-ND	.78	.70	.58
		13.46	8.13	SAM1059-01-ND	.78	.70	.58
		21.08	15.74	SAM1067-01-ND	.73	.66	.54
		11.30	5.84	SAM1075-01-ND	.83	.75	.62
2	5.08	8.51	2.67	SAM1019-02-ND	1.00	.90	.74
		7.62	2.67	SAM1027-02-ND	1.00	.90	.74
		10.92	5.84	SAM1035-02-ND	.75	.68	.56
		13.46	5.84	SAM1050-02-ND	.81	.73	.60
		13.46	8.13	SAM1059-02-ND	.81	.73	.60
		21.08	15.74	SAM1067-02-ND	.77	.69	.57
		11.30	5.84	SAM1075-02-ND	.86	.77	.64
3	7.62	8.51	2.67	SAM1019-03-ND	1.03	.93	.76
		7.62	2.67	SAM1027-03-ND	1.03	.93	.76
		10.92	5.84	SAM1035-03-ND	.78	.70	.58
		13.46	5.84	SAM1050-03-ND	.84	.76	.62
		13.46	8.13	SAM1059-03-ND	.84	.76	.62
		21.08	15.74	SAM1067-03-ND	.81	.73	.60
		11.30	5.84	SAM1075-03-ND	.89	.80	.66
4	10.16	8.51	2.67	SAM1019-04-ND	1.06	.95	.79
		7.62	2.67	SAM1027-04-ND	1.06	.95	.79
		10.92	5.84	SAM1035-04-ND	.81	.73	.60
		13.46	5.84	SAM1050-04-ND	.87	.78	.65
		13.46	8.13	SAM1059-04-ND	.87	.78	.65
		21.08	15.74	SAM1067-04-ND	.85	.77	.63
		11.30	5.84	SAM1075-04-ND	.92	.83	.68
5	12.70	8.51	2.67	SAM1019-05-ND	1.09	.98	.81
		7.62	2.67	SAM1027-05-ND	1.09	.98	.81
		10.92	5.84	SAM1035-05-ND	.84	.76	.62
		13.46	5.84	SAM1050-05-ND	.90	.81	.67
		13.46	8.13	SAM1059-05-ND	.90	.81	.67
		21.08	15.74	SAM1067-05-ND	.89	.80	.66
		11.30	5.84	SAM1075-05-ND	.95	.85	.70
6	15.24	8.51	2.67	SAM1019-06-ND	1.12	1.01	.83
		7.62	2.67	SAM1027-06-ND	1.12	1.01	.83
		10.92	5.84	SAM1035-06-ND	.87	.78	.65
		13.46	5.84	SAM1050-06-ND	.93	.84	.69
		13.46	8.13	SAM1059-06-ND	.93	.84	.69
		21.08	15.74	SAM1067-06-ND	.93	.84	.69
		11.30	5.84	SAM1075-06-ND	.98	.88	.73
7	17.78	8.51	2.67	SAM1019-07-ND	1.15	1.03	.85
		7.62	2.67	SAM1027-07-ND	1.15	1.03	.85
		10.92	5.84	SAM1035-07-ND	.90	.81	.67
		13.46	5.84	SAM1050-07-ND	.96	.86	.71
		13.46	8.13	SAM1059-07-ND	.96	.86	.71
		21.08	15.74	SAM1067-07-ND	.97	.87	.72
		11.30	5.84	SAM1075-07-ND	1.01	.91	.75
8	20.32	8.51	2.67	SAM1019-08-ND	1.18	1.06	.87
		7.62	2.67	SAM1027-08-ND	1.18	1.06	.87
		10.92	5.84	SAM1035-08-ND	.93	.84	.69
		13.46	5.84	SAM1050-08-ND	.99	.89	.73
		13.46	8.13	SAM1059-08-ND	.99	.89	.73
		21.08	15.74	SAM1067-08-ND	1.01	.91	.75
		11.30	5.84	SAM1075-08-ND	1.04	.94	.77
9	22.86	8.51	2.67	SAM1019-09-ND	1.21	1.09	.90
		7.62	2.67	SAM1027-09-ND	1.21	1.09	.90
		10.92	5.84	SAM1035-09-ND	.96	.86	.71
		13.46	5.84	SAM1050-09-ND	1.02	.92	.76
		13.46	8.13	SAM1059-09-ND	1.02	.92	.76
		21.08	15.74	SAM1067-09-ND	1.05	.94	.78
		11.30	5.84	SAM1075-09-ND	1.07	.96	.79
10	25.40	8.51	2.67	SAM1019-10-ND	1.24	1.11	.92
		7.62	2.67	SAM1027-10-ND	1.24	1.11	.92
		10.92	5.84	SAM1035-10-ND	.99	.89	.73
		13.46	5.84	SAM1050-10-ND	1.05	.94	.78
		13.46	8.13	SAM1059-10-ND	1.05	.94	.78
		21.08	15.74	SAM1067-10-ND	1.09	.98	.81
		11.30	5.84	SAM1075-10-ND	1.10	.99	.82
11	27.94	8.51	2.67	SAM1019-11-ND	1.27	1.14	.94
		7.62	2.67	SAM1027-11-ND	1.27	1.14	.94
		10.92	5.84	SAM1035-11-ND	1.02	.92	.76
		13.46	5.84	SAM1050-11-ND	1.08	.97	.80
		13.46	8.13	SAM1059-11-ND	1.08	.97	.80
		21.08	15.74	SAM1067-11-ND	1.13	1.02	.84
		11.30	5.84	SAM1075-11-ND	1.13	1.02	.84
12	30.48	8.51	2.67	SAM1019-12-ND	1.30	1.17	.96
		7.62	2.67	SAM1027-12-ND	1.30	1.17	.96
		10.92	5.84	SAM1035-12-ND	1.05	.94	.78
		13.46	5.84	SAM1050-12-ND	1.11	1.00	.82
		13.46	8.13	SAM1059-12-ND	1.11	1.00	.82
		21.08	15.74	SAM1067-12-ND	1.17	1.05	.87
		11.30	5.84	SAM1075-12-ND	1.16	1.04	.86
Fig. 4 — Single Row — Right Angle							
1	2.54	2.29	5.84	SAM1051-01-ND	1.00	.90	.74
2	5.08	2.29	5.84	SAM1051-02-ND	1.03	.93	.76
3	7.62	2.29	5.84	SAM1051-03-ND	1.06	.95	.79
4	10.16	2.29	5.84	SAM1051-04-ND	1.09	.98	.81
5	12.70	2.29	5.84	SAM1051-05-ND	1.12	1.01	.83
6	15.24	2.29	5.84	SAM1051-06-ND	1.15	1.03	.85
7	17.78	2.29	5.84	SAM1051-07-ND	1.18	1.06	.87
8	20.32	2.29	5.84	SAM1051-08-ND	1.21	1.09	.90
9	22.86	2.29	5.84	SAM1051-09-ND	1.24	1.11	.92
10	25.40	2.29	5.84	SAM1051-10-ND	1.27	1.14	.94
11	27.94	2.29	5.84	SAM1051-11-ND	1.30	1.17	.96
12	30.48	2.29	5.84	SAM1051-12-ND	1.33	1.19	.98

† More product available online. For pricing and availability, visit our website.

.100” (2.54mm)
Low Profile Socket Strips CES Series

Specifications: • **Insulator Material:** Black Glass Filled Polyester • **Contact Material:** Phosphor Bronze • **Plating:** Gold or Tin over 50µ” (1.27µm) Nickel • **Current Rating:** 1A • **Operating Temperature Range:** -55°C ~ 125°C with Gold; -55°C ~ 105°C with Tin • **Contact Resistance:** 10mΩ maximum • **Mates with:** TLW, TSW, Series

Fig. 1

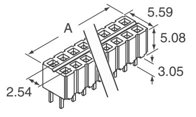

Fig. 2

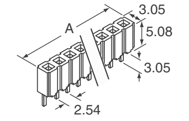

No. of Pos.	Dim. A (mm)	Digi-Key Part No.†	Price Each 1	10	100
30µ” (0.76µm) Gold on Contact, Matte Tin on Tail					
Fig. 1 — Dual Row					
2	2.54	SAM1084-01-ND	3.86	3.46	2.85
4	5.08	SAM1084-02-ND	4.02	3.60	2.97
6	7.62	SAM1084-03-ND	4.18	3.74	3.08
8	10.16	SAM1084-04-ND	4.34	3.89	3.20
10	12.70	SAM1084-05-ND	4.50	4.03	3.32
12	15.24	SAM1084-06-ND	4.66	4.17	3.44
14	17.78	SAM1084-07-ND	4.82	4.32	3.56
16	20.32	SAM1084-08-ND	4.98	4.46	3.67
18	22.86	SAM1084-09-ND	5.14	4.60	3.79
20	25.40	SAM1084-10-ND	5.30	4.75	3.91
22	27.94	SAM1084-11-ND	5.46	4.89	4.03
24	30.48	SAM1084-12-ND	5.62	5.03	4.15
Fig. 2 — Single Row					
1	2.54	SAM1085-01-ND	2.44	2.19	1.80
2	5.08	SAM1085-02-ND	2.53	2.27	1.87
3	7.62	SAM1085-03-ND	2.62	2.35	1.94
4	10.16	SAM1085-04-ND	2.71	2.43	2.00
5	12.70	SAM1085-05-ND	2.80	2.51	2.07
6	15.24	SAM1085-06-ND	2.89	2.59	2.13
7	17.78	SAM1085-07-ND	2.98	2.67	2.20
8	20.32	SAM1085-08-ND	3.07	2.75	2.27
9	22.86	SAM1085-09-ND	3.16	2.83	2.33
10	25.40	SAM1085-10-ND	3.25	2.91	2.40
11	27.94	SAM1085-11-ND	3.34	2.99	2.47
12	30.48	SAM1085-12-ND	3.43	3.07	2.53
Matte Tin					
Fig. 1 — Dual Row					
2	2.54	SAM1086-01-ND	2.36	2.12	1.74
4	5.08	SAM1086-02-ND	2.46	2.21	1.82
6	7.62	SAM1086-03-ND	2.56	2.30	1.89
8	10.16	SAM1086-04-ND	2.66	2.38	1.96
10	12.70	SAM1086-05-ND	2.76	2.47	2.04
12	15.24	SAM1086-06-ND	2.86	2.56	2.11
14	17.78	SAM1086-07-ND	2.96	2.65	2.19
16	20.32	SAM1086-08-ND	3.06	2.74	2.26
18	22.86	SAM1086-09-ND	3.16	2.83	2.33
20	25.40	SAM1086-10-ND	3.26	2.92	2.41
22	27.94	SAM1086-11-ND	3.36	3.01	2.48
24	30.48	SAM1086-12-ND	3.46	3.10	2.55
Fig. 2 — Single Row					
1	2.54	SAM1087-01-ND	1.32	1.19	.98
2	5.08	SAM1087-02-ND	1.38	1.24	1.02
3	7.62	SAM1087-03-ND	1.44	1.29	1.07
4	10.16	SAM1087-04-ND	1.50	1.35	1.11
5	12.70	SAM1087-05-ND	1.56	1.40	1.15
6	15.24	SAM1087-06-ND	1.62	1.45	1.20
7	17.78	SAM1087-07-ND	1.68	1.51	1.24
8	20.32	SAM1087-08-ND	1.74	1.56	1.29
9	22.86	SAM1087-09-ND	1.80	1.62	1.33
10	25.40	SAM1087-10-ND	1.86	1.67	1.38
11	27.94	SAM1087-11-ND	1.92	1.72	1.42
12	30.48	SAM1087-12-ND	1.98	1.78	1.46

† More product available online. For pricing and availability, visit our website.

.100” (2.54mm)
Power Connectors
IPT1 and IPS1 Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Phosphor Bronze • **Plating:** Tin or Gold over 50µ” (1.27µm) Nickel • **Operating Temperature Range:** -55°C ~ 105°C with Tin; -55°C ~ 125°C with Gold • **Insertion Depth:** .110” (2.79mm) to .255” (6.48mm) • **Insertion Force (SMT):** 3.0oz (0.83N) average (single contact only) • **Withdrawal Force (SMT):** 2.6oz (0.72N) average (single contact only) • **Insertion Force (T/H):** 6.0oz (1.67N) average (single contact only) • **Withdrawal Force (T/H):** 5.0oz (1.39N) average (single contact only) • **Voltage Rating:** 550VAC
• **IPT1 Series** Mates with IPS1 • **IPS1 Series** Mates with IPT1

Fig. 1

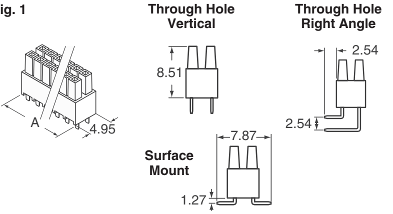

Fig. 2

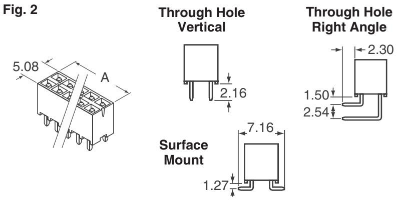

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100
Through Hole — Vertical						
1	10	13.08	SAM8085-ND	2.67	1.76	1.42
	20	25.78	SAM8088-ND	3.36	2.24	1.83
	30	38.48	SAM8091-ND	4.26	2.94	2.40
	40	51.18	SAM8094-ND	5.12	3.63	2.98
	50	63.88	SAM8097-ND	6.06	4.43	3.62
Through Hole — Right Angle						
1	10	13.08	SAM8086-ND	2.85	1.93	1.52
	20	25.78	SAM8089-ND	3.57	2.46	2.01
	30	38.48	SAM8092-ND	4.51	3.14	2.58
	40	51.18	SAM8095-ND	5.33	3.90	3.18
	50	63.88	SAM8098-ND	6.40	4.74	3.92
Surface Mount						
1	10	13.08	SAM8087-ND	2.67	1.76	1.42
	20	25.78	SAM8090-ND	3.36	2.24	1.83
	30	38.48	SAM8093-ND	4.26	2.94	2.40
	40	51.18	SAM8096-ND	5.12	3.63	2.98
	50	63.88	SAM8099-ND	6.06	4.43	3.62
Headers						
Through Hole — Vertical						
2	10	13.21	SAM8100-ND	2.71	1.79	1.45
	20	25.81	SAM8103-ND	3.42	2.28	1.86
	30	38.61	SAM8106-ND	4.32	2.98	2.43
	40	51.31	SAM8109-ND	5.20	3.69	3.03
	50	64.01	SAM8112-ND	6.14	4.49	3.66
Through Hole — Right Angle						
2	10	13.21	SAM8101-ND	2.89	1.96	1.54
	20	25.81	SAM8104-ND	3.63	2.50	2.04
	30	38.61	SAM8107-ND	4.59	3.20	2.63
	40	51.31	SAM8110-ND	5.41	3.96	3.23
	50	64.01	SAM8113-ND	6.50	4.81	3.98
Surface Mount						
2	10	13.21	SAM8102-ND	3.06	2.04	1.67
	20	25.81	SAM8105-ND	3.94	2.72	2.22
	30	38.61	SAM8108-ND	4.92	3.50	2.87
	40	51.31	SAM8111-ND	5.90	4.32	3.52
	50	64.01	SAM8114-ND	7.08	5.24	4.33

samtec

.156" (3.96mm) Pitch Sockets

FHP Series

Specifications:

• **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Beryllium Copper • **Current Rating:** 8.2A @ 30°C Temperature Rise • **Plating:** Tin over 50μ" (1.27μm) Nickel • **Insertion Depth:** .140" (3.57mm) to .345" (8.76mm) or pass through from top • **Insertion Force:** 56oz (15.57N) average (single contact only) • **Withdrawal Force:** 52oz (14.46N) average (single contact only) • **Mates with:** FWJ, JW

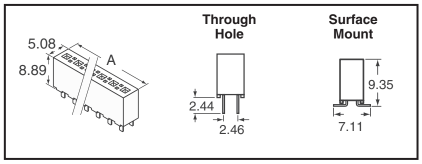

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100
Through Hole					
2	7.92	SAM8374-ND	1.90	1.26	.97
3	11.88	SAM8376-ND	2.23	1.51	1.17
4	15.84	SAM8378-ND	2.60	1.71	1.39
5	19.80	SAM8380-ND	2.95	2.00	1.58
6	23.76	SAM8382-ND	3.21	2.14	1.75
7	27.72	SAM8384-ND	3.48	2.32	1.90
8	31.68	SAM8386-ND	3.54	2.44	1.99
9	35.64	SAM8388-ND	3.65	2.52	2.06
10	39.60	SAM8390-ND	3.89	2.68	2.19
11	43.56	SAM8392-ND	4.06	2.73	2.29
12	47.52	SAM8394-ND	4.28	2.99	2.45
13	51.48	SAM8396-ND	4.65	3.24	2.66
14	55.44	SAM8398-ND	4.90	3.48	2.85
15	59.40	SAM8400-ND	5.16	3.63	3.06
16	63.36	SAM8402-ND	5.30	3.88	3.17
17	67.32	SAM8404-ND	5.62	4.11	3.35
18	71.28	SAM8406-ND	5.95	4.36	3.55
19	75.24	SAM8408-ND	6.29	4.48	3.76
20	79.20	SAM8410-ND	6.35	4.70	3.89
21	83.16	SAM8412-ND	6.68	4.94	4.09
22	87.12	SAM8414-ND	7.00	5.18	4.29
23	91.08	SAM8416-ND	7.33	5.28	4.49
24	95.04	SAM8418-ND	7.25	5.22	4.44
Surface Mount					
2	7.92	SAM8375-ND	2.12	1.38	1.08
3	11.88	SAM8377-ND	2.49	1.69	1.31
4	15.84	SAM8379-ND	2.81	1.91	1.50
5	19.80	SAM8381-ND	3.21	2.14	1.75
6	23.76	SAM8383-ND	3.48	2.40	1.96
7	27.72	SAM8385-ND	3.77	2.60	2.12
8	31.68	SAM8387-ND	3.97	2.74	2.24
9	35.64	SAM8389-ND	4.09	2.75	2.30
10	39.60	SAM8391-ND	4.32	2.98	2.43
11	43.56	SAM8393-ND	4.40	3.07	2.52
12	47.52	SAM8395-ND	4.79	3.34	2.74
13	51.48	SAM8397-ND	5.09	3.61	2.96
14	55.44	SAM8399-ND	5.17	3.79	3.09
15	59.40	SAM8401-ND	5.54	4.05	3.31
16	63.36	SAM8403-ND	5.93	4.34	3.54
17	67.32	SAM8405-ND	6.29	4.48	3.76
18	71.28	SAM8407-ND	6.40	4.74	3.92
19	75.24	SAM8409-ND	6.75	5.00	4.14
20	79.20	SAM8411-ND	7.10	5.26	4.35
21	83.16	SAM8413-ND	7.45	5.52	4.56
22	87.12	SAM8415-ND	7.83	5.64	4.70
23	91.08	SAM8417-ND	7.85	5.89	4.91
24	95.04	SAM8419-ND	7.78	5.84	4.86

.156" (3.96mm) Headers and Stackers

FWJ and JW Series

Specifications:
(FWJ Series) • **Insulator Material:** Black Glass Filled Polyester • **Terminal Material:** Phosphor Bronze • **Current Rating:** 8.2A @ 30°C Temperature Rise • **Plating:** Tin over 50μ" (1.27μm) Nickel • **Operating Temperature Range:** -55°C ~ 105°C • **Lead-Free Solderable:** Wave only
• **Mates with:** FHP

Specifications:
(JW Series) • **Insulator Material:** Natural Liquid Crystal Polymer • **Terminal Material:** Phosphor Bronze • **Plating:** Tin over 50μ" (1.27μm) Nickel
• **Mates with:** FHP

Fig. 1

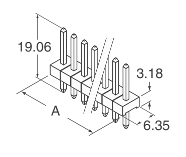

Fig. 2

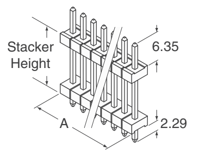

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100
FWJ Series — Headers						
1	1	3.96	SAM8420-ND	.37	.21	.14
	2	7.92	SAM8421-ND	.63	.38	.25
	3	11.88	SAM8422-ND	.85	.51	.37
	4	15.84	SAM8423-ND	1.00	.63	.47
	5	19.80	SAM8424-ND	1.22	.79	.57
	6	23.76	SAM8425-ND	1.41	.90	.68
	7	27.72	SAM8426-ND	1.58	1.01	.77
	8	31.68	SAM8427-ND	1.75	1.25	.87
	9	35.64	SAM8428-ND	1.91	1.27	.98
	10	39.60	SAM8429-ND	2.13	1.38	1.09
	11	43.56	SAM8430-ND	2.24	1.52	1.17
	12	47.52	SAM8431-ND	2.44	1.66	1.28
	13	51.48	SAM8432-ND	2.60	1.71	1.39
	14	55.44	SAM8433-ND	2.72	1.84	1.49
	15	59.40	SAM8434-ND	2.91	1.97	1.55
	16	63.36	SAM8435-ND	3.03	2.02	1.65
	17	67.32	SAM8436-ND	3.21	2.14	1.75
	18	71.28	SAM8437-ND	3.39	2.26	1.85
	19	75.24	SAM8438-ND	3.45	2.38	1.94
	20	79.20	SAM8439-ND	3.65	2.52	2.06
	21	83.16	SAM8440-ND	3.83	2.64	2.16
	22	87.12	SAM8441-ND	4.00	2.70	2.25
	23	91.08	SAM8442-ND	4.18	2.81	2.35
	24	95.04	SAM8443-ND	4.15	2.79	2.34
JW Series — 0.25" (6.35mm) Stacker Height						
2	2	7.92	SAM8444-ND	.81	.48	.34
	3	11.88	SAM8446-ND	1.03	.65	.48
	4	15.84	SAM8448-ND	1.30	.83	.62
	5	19.80	SAM8450-ND	1.59	.99	.76
	6	23.76	SAM8452-ND	1.80	1.16	.90
	7	27.72	SAM8454-ND	2.04	1.33	1.04
	8	31.68	SAM8456-ND	2.26	1.51	1.19
	9	35.64	SAM8458-ND	2.51	1.70	1.32
	10	39.60	SAM8460-ND	2.66	1.81	1.46
	11	43.56	SAM8462-ND	2.93	1.99	1.56
	12	47.58	SAM8464-ND	3.09	2.06	1.68
	13	51.48	SAM8466-ND	3.36	2.24	1.83
	14	55.44	SAM8468-ND	3.51	2.42	1.98
	15	59.40	SAM8470-ND	3.74	2.58	2.11
	16	63.36	SAM8472-ND	4.00	2.70	2.25
	17	67.32	SAM8474-ND	4.23	2.85	2.38
	18	71.28	SAM8476-ND	4.34	3.03	2.48
	19	75.24	SAM8478-ND	4.59	3.20	2.63
	20	79.20	SAM8480-ND	4.73	3.36	2.76
	21	83.16	SAM8482-ND	4.98	3.53	2.90
	22	87.12	SAM8484-ND	5.10	3.60	3.03
	23	91.08	SAM8486-ND	5.15	3.77	3.07
	24	95.04	SAM8488-ND	5.29	3.73	3.14
JW Series — 0.45" (11.43mm) Stacker Height						
2	2	7.92	SAM8445-ND	.81	.48	.34
	3	11.88	SAM8447-ND	1.03	.65	.48
	4	15.84	SAM8449-ND	1.30	.83	.62
	5	19.80	SAM8451-ND	1.59	.99	.76
	6	23.76	SAM8453-ND	1.80	1.16	.90
	7	27.72	SAM8455-ND	2.04	1.33	1.04
	8	31.68	SAM8457-ND	2.26	1.51	1.19
	9	35.64	SAM8459-ND	2.51	1.70	1.32
	10	39.60	SAM8461-ND	2.66	1.81	1.46
	11	43.56	SAM8463-ND	2.93	1.99	1.56
	12	47.58	SAM8465-ND	3.09	2.06	1.68
	13	51.48	SAM8467-ND	3.36	2.24	1.83
	14	55.44	SAM8469-ND	3.51	2.42	1.98
	15	59.40	SAM8471-ND	3.74	2.58	2.11
	16	63.36	SAM8473-ND	4.00	2.70	2.25
2	17	67.32	SAM8475-ND	4.23	2.85	2.38
	18	71.28	SAM8477-ND	4.34	3.03	2.48
	19	75.24	SAM8479-ND	4.59	3.20	2.63
	20	79.20	SAM8481-ND	4.73	3.36	2.76
	21	83.16	SAM8483-ND	4.98	3.53	2.90
	22	87.12	SAM8485-ND	5.10	3.60	3.03
	23	91.08	SAM8487-ND	5.15	3.77	3.07
	24	95.04	SAM8489-ND	5.29	3.73	3.14

.050" (1.27mm) Ejector Headers

EHF Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Terminal Material:** Phosphor Bronze • **Plating:** Tin or Gold over 50μ (1.27μm) Nickel • **Current Rating:** 1.75A @ 80°C Ambient • **Operating Temperature Range:** -55°C ~ 125°C • **Mates with:** FFSD series

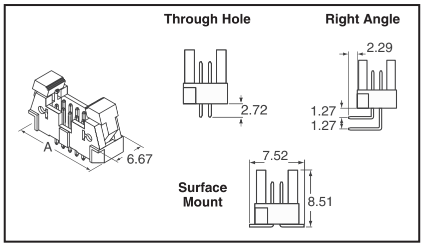

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100
Through Hole					
10	20.83	SAM8205-ND	3.83	2.64	2.16
20	27.18	SAM8208-ND	4.34	3.03	2.48
40	39.88	SAM8211-ND	5.98	4.37	3.57
50	46.23	SAM8214-ND	7.18	5.31	4.40
Right Angle					
10	20.83	SAM8206-ND	4.82	3.36	2.76
20	27.18	SAM8209-ND	5.25	3.84	3.14
40	39.88	SAM8212-ND	7.48	5.54	4.58
50	46.23	SAM8215-ND	8.95	6.72	5.60
Surface Mount					
10	20.83	SAM8207-ND	4.45	3.11	2.55
20	27.18	SAM8210-ND	5.12	3.63	2.98
40	39.88	SAM8213-ND	6.90	5.11	4.23
50	46.23	SAM8216-ND	8.28	6.21	5.18

.050" (1.27mm) IDC Cable Assemblies

FFSD Series

Specifications: • **Insulator Material:** PBT • **Contact:** Beryllium Copper • **Plating:** 10μ" (0.25μm) Gold over 50μ" (1.27μm) Nickel on contact area; Tin over 50μ" (1.27μm) Nickel on balance • **Wire:** 30 AWG • **Current Rating:** 1A • **Operating Temperature Range:** -40°C ~ 105°C • **Lead Size Accepted:** 0.41mm (0.16") Square • **Contact Resistance:** 10mΩ maximum • **Insertion Depth:** 2.64mm (.104") ~ 3.17mm (.125") • **Insertion Force (Single contact only):** 5oz (1.39N) Average • **Withdrawal Force (Single contact only):** 3oz (0.83N) Average • **Mates with:** FTS, FTSH, EHF Series

Fig. 1

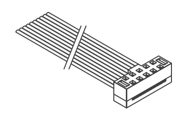

Fig. 2

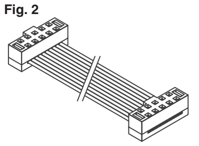

Fig.	No. of Pos.	Length (inch)	Digi-Key Part No.	Price Each 1	10	100
Single End						
1	10	2	SAM8220-ND	5.23	3.82	3.12
		6	SAM8221-ND	6.14	4.49	3.66
		12	SAM8222-ND	7.20	5.33	4.41
	20	2	SAM8226-ND	6.32	4.62	3.77
		6	SAM8227-ND	6.93	5.13	4.24
		12	SAM8228-ND	7.90	5.93	4.94
	40	2	SAM8232-ND	9.12	6.84	5.70
		6	SAM8233-ND	10.07	7.67	6.57
		12	SAM8234-ND	11.84	9.10	7.63
	50	2	SAM8238-ND	10.28	7.83	6.71
		6	SAM8239-ND	11.36	8.74	7.33
		12	SAM8240-ND	13.34	10.26	8.60

(Continued)

.050” (1.27mm) IDC Cable Assemblies FFSD Series *(Cont.)*

Fig.	No. of Pos.	Length (inch)	Digi-Key Part No.	Price Each 1	10	100
Double End — Female/Female						
2	10	2	SAM8217-ND	9.24	6.93	5.78
		6	SAM8218-ND	10.06	7.34	6.29
		12	SAM8219-ND	10.83	8.25	7.07
	20	2	SAM8223-ND	10.76	8.19	7.02
		6	SAM8224-ND	11.32	8.71	7.30
		12	SAM8225-ND	12.47	9.59	8.04
	40	2	SAM8229-ND	16.06	12.41	10.59
		6	SAM8230-ND	17.36	13.42	11.25
		12	SAM8231-ND	18.40	14.90	12.49
	50	2	SAM8235-ND	18.12	14.68	12.30
		6	SAM8236-ND	19.36	15.22	13.14
		12	SAM8237-ND	20.20	16.47	14.14

.050” (1.27mm) IDC Cable Assemblies

FFMD Series

Specifications: • **Insulator Material:** Black Glass Filled Polyester • **Terminal:** Beryllium Copper • **Plating:** Tin over 50μ” (1.27μm) Nickel • **Wire:** 30 AWG • **Current Rating:** 1A • **Operating Temperature Range:** -40°C ~ 105°C • **Mates with:** FLE series

Fig. 1

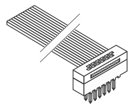

Fig. 2

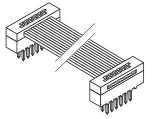

Fig. 3

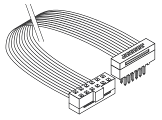

Fig.	No. of Pos.	Length (inches)	Digi-Key Part No.	Price Each 1	10	100
Single End						
1	10	2	SAM8569-ND	4.73	3.30	2.71
		6	SAM8570-ND	5.30	3.88	3.17
		12	SAM8571-ND	6.40	4.74	3.92
	20	2	SAM8578-ND	5.30	3.88	3.17
		6	SAM8579-ND	6.19	4.53	3.69
		12	SAM8580-ND	7.25	5.37	4.44
	40	2	SAM8587-ND	7.98	5.75	4.79
		6	SAM8588-ND	9.05	6.79	5.66
		12	SAM8589-ND	10.70	8.14	6.98
	50	2	SAM8596-ND	8.98	6.74	5.61
		6	SAM8597-ND	9.94	7.56	6.48
		12	SAM8598-ND	11.70	9.00	7.54
Double End — Male/Male						
2	10	2	SAM8566-ND	8.03	5.78	4.82
		6	SAM8567-ND	8.52	6.39	5.33
		12	SAM8568-ND	9.77	7.13	6.11
	20	2	SAM8575-ND	9.36	7.02	5.85
		6	SAM8576-ND	9.75	7.42	6.36
		12	SAM8577-ND	10.95	8.33	7.14
	40	2	SAM8584-ND	13.38	10.52	8.82
		6	SAM8585-ND	14.67	11.54	9.68
		12	SAM8586-ND	16.59	12.82	10.75
	50	2	SAM8593-ND	15.80	12.21	10.42
		6	SAM8594-ND	17.09	13.21	11.08
		12	SAM8595-ND	18.14	14.69	12.32
Double End — Male/Female						
3	10	2	SAM8572-ND	8.33	6.25	5.21
		6	SAM8573-ND	9.17	6.88	5.73
		12	SAM8574-ND	9.96	7.58	6.50
	20	2	SAM8581-ND	9.71	7.39	6.33
		6	SAM8582-ND	10.49	7.98	6.84
		12	SAM8583-ND	11.43	8.79	7.37
	40	2	SAM8590-ND	14.48	11.39	9.55
		6	SAM8591-ND	15.77	12.19	10.40
		12	SAM8592-ND	16.91	13.69	11.48
	50	2	SAM8599-ND	17.12	13.23	11.09
		6	SAM8600-ND	17.58	14.23	11.93
		12	SAM8601-ND	19.40	15.25	13.17

.0787” (2mm) IDC Cable Assemblies

TCMD Series

Specifications: • **Insulator Material:** Black Glass Filled Polyester • **Terminal:** Phosphor Bronze • **Plating:** Tin over 50μ” (1.27μm) Nickel • **Wire:** 28 AWG 7/36 Stranded, Tinned, Copper with Gray PVC Insulator • **Current Rating:** 1A • **Operating Temperature:** -40°C ~ 105°C • **Mates with:** SMM, MMS

Fig. 1

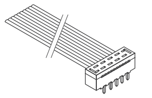

Fig. 2

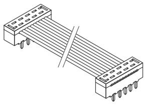

Fig. 3

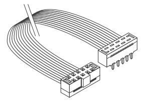

Fig.	No. of Pos.	Lengh (inches)	Digi-Key Part No.	Price Each 1	10	100
Single End						
1	10	2	SAM8286-ND	4.18	2.88	2.35
		6	SAM8287-ND	4.92	3.50	2.87
		12	SAM8288-ND	5.98	4.37	3.57
	16	2	SAM8295-ND	4.62	3.22	2.64
		6	SAM8296-ND	5.37	3.89	3.19
		12	SAM8297-ND	6.28	4.65	3.85
	20	2	SAM8304-ND	4.84	3.38	2.77
		6	SAM8305-ND	5.38	3.94	3.21
		12	SAM8306-ND	6.48	4.80	3.97
	24	2	SAM8313-ND	5.27	3.81	3.12
		6	SAM8314-ND	6.35	4.70	3.89
		12	SAM8315-ND	8.18	6.14	5.12
	26	2	SAM8322-ND	5.23	3.82	3.12
		6	SAM8323-ND	6.50	4.81	3.98
		12	SAM8324-ND	8.35	6.27	5.22
	30	2	SAM8331-ND	5.69	4.17	3.40
		6	SAM8332-ND	6.95	5.15	4.26
		12	SAM8333-ND	8.76	6.57	5.48
	34	2	SAM8340-ND	6.24	4.56	3.72
		6	SAM8341-ND	7.48	5.54	4.58
		12	SAM8342-ND	9.29	6.97	5.81
	40	2	SAM8349-ND	6.78	5.02	4.15
		6	SAM8350-ND	7.90	5.93	4.94
		12	SAM8351-ND	10.01	7.30	6.26
	44	2	SAM8358-ND	7.25	5.37	4.44
		6	SAM8359-ND	8.35	6.27	5.22
		12	SAM8360-ND	10.03	7.63	6.54
	50	2	SAM8367-ND	7.93	5.71	4.76
		6	SAM8368-ND	9.00	6.75	5.63
		12	SAM8369-ND	10.65	8.11	6.95
Double End — Male/Male						
2	10	2	SAM8283-ND	6.75	5.00	4.14
		6	SAM8284-ND	7.63	5.49	4.58
		12	SAM8285-ND	8.57	6.43	5.36
	16	2	SAM8292-ND	7.80	5.62	4.68
		6	SAM8293-ND	8.30	6.23	5.19
		12	SAM8294-ND	9.55	7.17	5.97
	20	2	SAM8301-ND	7.87	5.91	4.92
		6	SAM8302-ND	8.69	6.52	5.43
		12	SAM8303-ND	9.94	7.25	6.21
	24	2	SAM8310-ND	8.64	6.48	5.40
		6	SAM8311-ND	10.06	7.34	6.29
		12	SAM8312-ND	11.41	8.78	7.36
	26	2	SAM8319-ND	8.95	6.72	5.60
		6	SAM8320-ND	9.91	7.55	6.47
		12	SAM8321-ND	11.68	8.98	7.53
	30	2	SAM8328-ND	9.79	7.14	6.12
		6	SAM8329-ND	10.74	8.18	7.01
		12	SAM8330-ND	12.49	9.61	8.05
	34	2	SAM8337-ND	10.37	7.90	6.77
		6	SAM8338-ND	11.48	8.83	7.40
		12	SAM8339-ND	13.43	10.33	8.66
	40	2	SAM8346-ND	11.52	8.86	7.43
		6	SAM8347-ND	12.83	9.87	8.27
		12	SAM8348-ND	14.48	11.39	9.55
	44	2	SAM8355-ND	12.38	9.52	7.98
		6	SAM8356-ND	13.38	10.52	8.82
		12	SAM8357-ND	15.31	12.05	10.10
	50	2	SAM8364-ND	13.27	10.44	8.75
		6	SAM8365-ND	14.56	11.46	9.60
		12	SAM8366-ND	16.50	12.75	10.69
Double End — Male/Female						
3	10	2	SAM8289-ND	7.30	5.41	4.47
		6	SAM8290-ND	7.85	5.89	4.91
		12	SAM8291-ND	9.10	6.83	5.69
	16	2	SAM8298-ND	8.09	6.07	5.06
		6	SAM8299-ND	8.93	6.70	5.58
		12	SAM8300-ND	9.75	7.42	6.36
	20	2	SAM8307-ND	8.52	6.39	5.33
		6	SAM8308-ND	9.34	7.01	5.84
		12	SAM8309-ND	10.14	7.72	6.62
	24	2	SAM8316-ND	9.34	7.01	5.84
		6	SAM8317-ND	10.28	7.83	6.71
		12	SAM8318-ND	12.04	9.26	7.76
	26	2	SAM8325-ND	9.67	7.06	6.05
		6	SAM8326-ND	10.60	8.07	6.92
		12	SAM8327-ND	12.35	9.50	7.97
	30	2	SAM8334-ND	10.14	7.72	6.62
		6	SAM8335-ND	11.25	8.65	7.25
		12	SAM8336-ND	13.23	10.18	8.53
	34	2	SAM8343-ND	11.22	8.54	7.32
		6	SAM8344-ND	12.29	9.45	7.92
		12	SAM8345-ND	13.95	10.97	9.20
	40	2	SAM8352-ND	12.47	9.59	8.04
		6	SAM8353-ND	13.46	10.59	8.88
		12	SAM8354-ND	15.40	11.90	10.15
	44	2	SAM8361-ND	13.39	10.30	8.63
		6	SAM8362-ND	14.37	11.30	9.47
		12	SAM8363-ND	16.30	12.60	10.75
	50	2	SAM8370-ND	14.37	11.30	9.47
		6	SAM8371-ND	15.66	12.11	10.33
		12	SAM8372-ND	16.80	13.60	11.40

.0787” (2mm) Ejector Headers EHT Series

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Terminal Material:** Phosphor Bronze • **Plating:** Tin or Gold over 50μ” (1.27μm) Nickel • **Current Rating:** 3A @ 80°C ambient • **Operating Temperature Range:** -55°C ~ 125°C • **Mates with:** TCSD

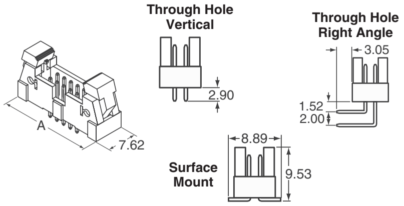

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100
Through Hole —Vertical					
10	23.79	SAM8554-ND	5.35	3.87	3.17
20	33.79	SAM8557-ND	5.95	4.36	3.55
40	53.79	SAM8560-ND	9.98	7.28	6.24
50	63.79	SAM8563-ND	11.70	9.00	7.54
Through Hole — Right Angle					
10	23.79	SAM8555-ND	5.67	4.15	3.38
20	33.79	SAM8558-ND	6.30	4.67	3.86
40	53.79	SAM8561-ND	10.53	8.02	6.87
50	63.79	SAM8564-ND	12.87	9.90	8.30
Surface Mount					
10	23.79	SAM8556-ND	6.93	5.13	4.24
20	33.79	SAM8559-ND	7.93	5.71	4.76
40	53.79	SAM8562-ND	12.60	9.69	8.12
50	63.79	SAM8565-ND	15.29	12.03	10.08

.0787” (2mm) IDC Cable Assemblies

TCSD Series

Specifications: • **Insulator Material:** Black Glass Filled Polyester • **Contact Material:** Beryllium Copper • **Plating:** Gold or Tin over 50μ” (1.27μm) Nickel • **Wire:** 28AWG 7/36 Stranded, Tinned, Copper with Gray PVC Insulator • **Current Rating:** 1A • **Operating Temperature Range:** -40°C ~ 105°C • **Lead Size Accepted:** .019” (0.48mm) to .021” (0.53mm) • **Contact Resistance:** 10mΩ max. • **Insertion Depth:** 113” (2.87mm) to .125” (3.17mm) • **Insertion Force:** 2oz (0.56N) average (single contact only) • **Withdrawal Force:** 1.4oz (0.39N) average (single contact only) • **Mates with:** TMM, EHT

Fig. 1

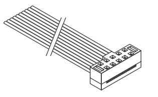

Fig. 2

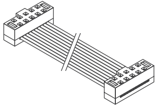

Fig.	No. of Pos.	Length (inches)	Digi-Key Part No.	Price Each 1	10	100
Single End						
1	10	2	SAM8533-ND	4.87	3.40	2.79
		6	SAM8534-ND	5.41	3.96	3.23
		12	SAM8535-ND	6.50	4.81	3.98
	20	2	SAM8539-ND	5.43	3.98	3.24
		6	SAM8540-ND	6.34	4.64	3.79
		12	SAM8541-ND	7.40	5.48	4.53
	40	2	SAM8545-ND	7.87	5.91	4.92
		6	SAM8546-ND	9.26	6.95	5.79
		12	SAM8547-ND	10.90	8.30	7.11
	50	2	SAM8551-ND	9.22	6.92	5.76
		6	SAM8552-ND	10.19	7.76	6.65
		12	SAM8553-ND	11.95	9.19	7.70
Double End — Female/Female						
2	10	2	SAM8530-ND	7.92	5.94	4.95
		6	SAM8531-ND	8.74	6.56	5.46
		12	SAM8532-ND	9.98	7.28	6.24
	20	2	SAM8536-ND	9.62	7.02	6.02
		6	SAM8537-ND	10.01	7.62	6.53
		12	SAM8538-ND	11.20	8.53	7.31
	40	2	SAM8542-ND	13.75	10.82	9.07
		6	SAM8543-ND	15.05	11.84	9.92
		12	SAM8544-ND	16.98	13.13	11.01
	50	2	SAM8548-ND	16.26	12.57	10.72
		6	SAM8549-ND	17.53	13.55	11.36
		12	SAM8550-ND	18.59	15.05	12.62

JST

JMD Series 0.5mm Connectors

Features: • Smooth connection: The bellows type contacts, mating is very smooth • Distortion Prevention Construction: Box shaped plug housing has guide ribs on both ends which prevents distortion • Wide Range of Circuits: Number of circuits available are: 20 to 100, every 10 circuits

Specifications: • Current Rating: 0.5A AC/DC • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Withstanding Voltage: 100V AC/minute • Contacts: Gold Plated

Fig. 1

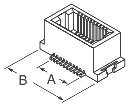

Fig. 2

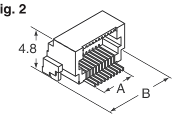

Fig. 3

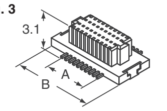

Fig.	Cir-cuits	Dim-ensions mm A	B	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape and Reel* Pricing 1,500	JST Part No.
Top Entry Plug									
4.5mm Stacking Height									
1	20	4.5	9.1	455-1874-1-ND	11.22	93.53	374.10	621.01/M	20P-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1875-1-ND	12.97	108.05	432.18	717.42/M	40P-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1876-1-ND	15.41	128.39	513.57	852.53/M	50P-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1877-1-ND	20.65	172.11	688.42	1142.78/M	60P-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1878-1-ND	22.79	189.93	759.70	1261.10/M	70P-JMDSS-G-1-TF(S)(LF)(SN)
	80	19.5	24.1	455-1879-1-ND	27.06	225.53	902.12	1497.52/M	80P-JMDSS-G-1-TF(S)(LF)(SN)
	100	24.5	29.1	455-1880-1-ND	32.64	271.97	1087.86	1805.85/M	100P-JMDSS-G-1-TF(S)(LF)(SN)
5.0mm Stacking Height									
1	30	7.0	11.6	455-1881-1-ND	12.27	102.25	409.00	678.94/M	30P5.0-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1882-1-ND	15.19	126.62	506.49	840.78/M	40P5.0-JMDSS-G-1-TF(S)(LF)(SN)
6.0mm Stacking Height									
1	50	12.0	16.6	455-1883-1-ND	17.97	149.71	598.85	994.10/M	50P6.0-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1884-1-ND	21.78	181.49	725.94	1205.06/M	60P6.0-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1885-1-ND	24.10	200.85	803.41	1333.66/M	70P6.0-JMDSS-G-1-TF(S)(LF)(SN)
Side Entry Plug									
2	20	4.5	9.1	455-1886-1-ND	8.78	73.17	292.69	485.87/M	20PS-JMDSS-G-1-TF(S)(LF)(SN)
	30	7.0	11.6	455-1887-1-ND	10.95	91.22	364.89	605.72/M	30PS-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1888-1-ND	14.26	118.87	475.49	789.32/M	40PS-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1889-1-ND	17.68	147.31	589.25	978.16/M	50PS-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1890-1-ND	19.64	163.67	654.68	1086.77/M	60PS-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1891-1-ND	22.87	190.58	762.31	1265.44/M	70PS-JMDSS-G-1-TF(S)(LF)(SN)
	80	19.5	24.1	455-1892-1-ND	32.62	271.80	1087.19	1804.74/M	80PS-JMDSS-G-1-TF(S)(LF)(SN)
	100	24.5	29.1	455-1893-1-ND	43.55	362.94	1451.77	2409.94/M	100PS-JMDSS-G-1-TF(S)(LF)(SN)
Receptacle									
3	20	4.5	9.1	455-1894-1-ND	12.48	104.04	416.15	690.81/M	20R-JMDSS-G-1-TF(S)(LF)(SN)
	30	7.0	11.6	455-1895-1-ND	13.77	114.74	458.96	761.88/M	30R-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1896-1-ND	17.31	144.23	576.90	957.66/M	40R-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1897-1-ND	20.62	171.85	687.38	1141.06/M	50R-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1898-1-ND	22.96	191.36	765.45	1270.65/M	60R-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1899-1-ND	25.30	210.85	843.40	1400.05/M	70R-JMDSS-G-1-TF(S)(LF)(SN)
	80	19.5	24.1	455-1900-1-ND	26.21	218.46	873.83	1450.56/M	80R-JMDSS-G-1-TF(S)(LF)(SN)
	100	24.5	29.1	455-1901-1-ND	36.05	300.45	1201.81	1995.01/M	100R-JMDSS-G-1-TF(S)(LF)(SN)

* For Tape and Reel part number, change 1-ND to 2-ND.

SUR Series 0.8mm IDC Connectors

Features: • 3 point grip construction • Super fine wires for ease in routing • Shrouded header • Twin U-slot insulation displacement section

Specifications: • Current Ratings: 0.5A AC/DC (32 AWG) • Voltage Rating: 30V DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 32, 36 AWG

Fig. 1

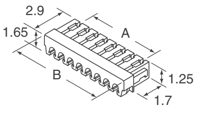

Fig. 2

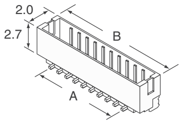

Fig. 3

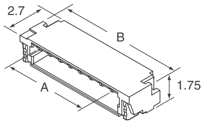

Fig.	Cir-cuits	Dimensions - mm A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Housing								
1	2	0.8	2.4	455-2176-ND	4.17	34.78	139.11	02SUR-32S
	8	5.6	7.2	455-2177-ND	9.30	77.46	309.84	08SUR-32S
	12	8.8	10.4	455-2178-ND	11.78	98.21	392.83	12SUR-32S
	14	10.4	12.0	455-2179-ND	13.43	111.96	447.83	14SUR-32S
	15	11.2	12.8	455-2180-ND	13.91	115.91	463.65	15SUR-32S
	16	12.0	13.6	455-2181-ND	14.65	122.10	488.39	16SUR-32S
	20	15.2	16.8	455-2182-ND	16.37	136.41	545.64	20SUR-32S

Fig.	Cir-cuit	Dim. - mm A	B	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape and Reel* Qty.	Pricing	JST Part No.
Headers										
Top Entry (Shrouded)										
2	20	15.2	18.2	455-2030-1-ND	13.49	112.38	449.53	2,500	746.22/M	BM20B-SURS-TF(LF)(SN)
Side Entry (Shrouded)										
3	2	0.8	3.8	455-2039-1-ND	4.74	39.54	158.14	3,500	262.52/M	SM02B-SURS-TF(LF)(SN)
	8	5.6	8.6	455-2040-1-ND	9.30	77.53	310.13	3,500	514.82/M	SM08B-SURS-TF(LF)(SN)
	10	7.2	10.2	455-2041-1-ND	10.13	84.38	337.53	3,500	560.30/M	SM10B-SURS-TF(LF)(SN)
	15	11.2	14.2	455-2042-1-ND	13.28	110.68	442.71	3,500	734.90/M	SM15B-SURS-TF(LF)(SN)
	16	12.0	15.0	455-2043-1-ND	14.20	118.32	473.29	3,500	785.66/M	SM16B-SURS-TF(LF)(SN)

* For Tape and Reel part number, change 1-ND to 2-ND.

SH and SR Series

1.0mm Connectors

SH Series Features: • The Worlds First 1.0mm (.039") Pitch Crimp Style Connector • Ultra Compact, Low Profile Design with a mounting height of 2.95mm (.116") for side entry type **Specifications:** • Current Rating: 1.0A AC, DC • Voltage Rating: 50V AC, DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: AWG #32 to #28 • Color: Natural (white)

SR Series Features: • 1.0mm (0.39") pitch and 3.0mm (.118") high (side entry type) IDC • Header designed for vacuum pick and place robotics • Twin U-slot insulation displacement section • 3 point grip construction **Specifications:** • Current Rating: 0.7A DC • Voltage Rating: 50V DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 30 AWG

Fig. 1

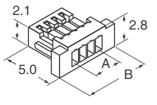

Fig. 2

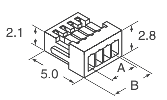

Fig. 3

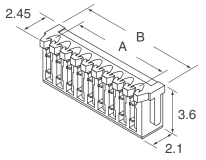

Fig. 4

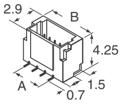

Fig. 5

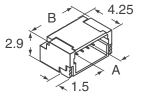

Fig.	Circuits	Dimensions - mm A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Housing								
Crimp With Protrusions								
1	2	1.0	5.0	455-1377-ND	.48	4.02	16.07	SHR-02V-S-B
	3	2.0	6.0	455-1378-ND	.59	4.92	19.69	SHR-03V-S-B
	4	3.0	7.0	455-1379-ND	.69	5.77	23.08	SHR-04V-S-B
	5	4.0	8.0	455-1380-ND	.81	6.73	26.92	SHR-05V-S-B
	6	5.0	9.0	455-1381-ND	.89	7.38	29.53	SHR-06V-S-B
	7	6.0	10.0	455-1382-ND	1.00	8.35	33.38	SHR-07V-S-B
	8	7.0	11.0	455-1383-ND	1.10	9.15	36.60	SHR-08V-S-B
	9	8.0	12.0	455-1384-ND	1.19	9.96	39.83	SHR-09V-S-B
	10	9.0	13.0	455-1385-ND	1.29	10.76	43.05	SHR-10V-S-B
	11	10.0	14.0	455-1386-ND	1.39	11.57	46.28	SHR-11V-S-B
	12	11.0	15.0	455-1387-ND	1.49	12.38	49.51	SHR-12V-S-B
	13	12.0	16.0	455-1388-ND	1.58	13.18	52.73	SHR-13V-S-B
	14	13.0	17.0	455-1389-ND	1.68	13.99	55.95	SHR-14V-S-B
	15	14.0	18.0	455-1390-ND	1.78	14.80	59.18	SHR-15V-S-B
	20	19.0	23.0	455-1391-ND	2.26	18.83	75.31	SHR-20V-S-B
Crimp Without Protrusions								
2	2	1.0	3.0	455-1392-ND	.48	4.02	16.07	SHR-02V-S
	3	2.0	4.0	455-1393-ND	.59	4.92	19.69	SHR-03V-S
	4	3.0	5.0	455-1394-ND	.69	5.77	23.08	SHR-04V-S
	5	4.0	6.0	455-1395-ND	.81	6.73	26.92	SHR-05V-S
	6	5.0	7.0	455-1396-ND	.89	7.38	29.53	SHR-06V-S
	7	6.0	8.0	455-1397-ND	1.00	8.35	33.38	SHR-07V-S
	8	7.0	9.0	455-1398-ND	1.10	9.15	36.60	SHR-08V-S
	9	8.0	10.0	455-1399-ND	1.19	9.96	39.83	SHR-09V-S
	10	9.0	11.0	455-1400-ND	1.29	10.76	43.05	SHR-10V-S
	11	10.0	12.0	455-1401-ND	1.39	11.57	46.28	SHR-11V-S
	12	11.0	13.0	455-1402-ND	1.49	12.38	49.51	SHR-12V-S
	13	12.0	14.0	455-1403-ND	1.58	13.18	52.73	SHR-13V-S
	14	13.0	15.0	455-1404-ND	1.68	13.99	55.95	SHR-14V-S
	15	14.0	16.0	455-1405-ND	1.78	14.80	59.18	SHR-15V-S
IDC Housing								
3	2	1.0	3.0	455-2183-ND	1.80	15.01	60.02	02SR-3S
	3	2.0	4.0	455-2184-ND	2.18	18.21	72.82	03SR-3S
	4	3.0	5.0	455-2185-ND	2.57	21.41	85.62	04SR-3S
	5	4.0	6.0	455-2186-ND	2.97	24.79	99.16	05SR-3S
	6	5.0	7.0	455-2187-ND	3.36	27.99	111.95	06SR-3S
	7	6.0	8.0	455-2188-ND	4.04	33.68	134.73	07SR-3S
	8	7.0	9.0	455-2189-ND	4.44	37.02	148.08	08SR-3S
	9	8.0	10.0	455-2190-ND	4.84	40.31	161.25	09SR-3S
	10	9.0	11.0	455-2191-ND	5.22	43.51	174.05	10SR-3S
	11	10.0	12.0	455-2192-ND	5.62	46.81	187.22	11SR-3S
	12	11.0	13.0	455-2193-ND	7.51	62.57	250.26	12SR-3S
Crimp Tools								
Head Adapter SR Series.................				455-2301-ND		1153.29/1		IDH-SR-20
Pistol Grip Crimp Tool..................				455-1372-ND		144.18/1		IDB-12

Fig.	Cir-cuits	Dim. - mm A	B	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape and Reel* Qty.	Pricing	JST Part No.
Shrouded Header										
Top Entry Type										
4	2	1.0	4.0	455-1788-1-ND	3.22	26.87	107.49	1,500	178.44/M	BM02B-SRSS-TB(LF)(SN)
	3	2.0	5.0	455-1789-1-ND	3.79	31.58	126.30	1,500	209.66/M	BM03B-SRSS-TB(LF)(SN)
	4	3.0	6.0	455-1790-1-ND	4.45	37.05	148.18	1,500	245.98/M	BM04B-SRSS-TB(LF)(SN)
	5	4.0	7.0	455-1791-1-ND	5.39	44.93	179.70	1,500	298.30/M	BM05B-SRSS-TB(LF)(SN)
	6	5.0	8.0	455-1792-1-ND	5.93	49.45	197.80	1,500	328.35/M	BM06B-SRSS-TB(LF)(SN)
	7	6.0	9.0	455-1793-1-ND	6.48	54.04	216.15	1,500	358.81/M	BM07B-SRSS-TB(LF)(SN)
	8	7.0	10.0	455-1794-1-ND	7.19	59.92	239.67	1,500	397.86/M	BM08B-SRSS-TB(LF)(SN)
	9	8.0	11.0	455-1795-1-ND	7.73	64.39	257.54	1,500	427.52/M	BM09B-SRSS-TB(LF)(SN)
	10	9.0	12.0	455-1796-1-ND	8.29	69.09	276.36	1,500	458.76/M	BM10B-SRSS-TB(LF)(SN)
	11	10.0	13.0	455-1797-1-ND	8.86	73.80	295.18	1,500	490.00/M	BM11B-SRSS-TB(LF)(SN)
	12	11.0	14.0	455-1798-1-ND	9.32	77.69	310.74	1,500	515.83/M	BM12B-SRSS-TB(LF)(SN)

* For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

JST SH and SR Series
1.0mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dim. - mm A	B	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape and Reel* Qty.	Pricing	JST Part No.
4	13	12.0	15.0	455-1799-1-ND	9.98	83.15	332.58	1,500	552.08/M	BM13B-SRSS-TB(LF)(SN)
	14	13.0	16.0	455-1800-1-ND	10.95	91.23	364.90	1,500	605.74/M	BM14B-SRSS-TB(LF)(SN)
	15	14.0	17.0	455-1801-1-ND	11.36	94.70	378.78	1,500	628.78/M	BM15B-SRSS-TB(LF)(SN)
Side Entry Type										
5	2	1.0	4.0	455-1802-1-ND	3.12	25.99	103.96	3,000	172.58/M	SM02B-SRSS-TB(LF)(SN)
	3	2.0	5.0	455-1803-1-ND	3.71	30.93	123.71	3,000	205.36/M	SM03B-SRSS-TB(LF)(SN)
	4	3.0	6.0	455-1804-1-ND	4.27	35.58	142.30	3,000	236.22/M	SM04B-SRSS-TB(LF)(SN)
	5	4.0	7.0	455-1805-1-ND	5.30	44.16	176.63	3,000	293.21/M	SM05B-SRSS-TB(LF)(SN)
	6	5.0	8.0	455-1806-1-ND	5.87	48.92	195.69	3,000	324.85/M	SM06B-SRSS-TB(LF)(SN)
	7	6.0	9.0	455-1807-1-ND	6.44	53.63	214.50	3,000	356.07/M	SM07B-SRSS-TB(LF)(SN)
	8	7.0	10.0	455-1808-1-ND	7.00	58.33	233.32	3,000	387.31/M	SM08B-SRSS-TB(LF)(SN)
	9	8.0	11.0	455-1809-1-ND	7.65	63.74	254.96	3,000	423.24/M	SM09B-SRSS-TB(LF)(SN)
	10	9.0	12.0	455-1810-1-ND	8.23	68.56	274.24	3,000	455.24/M	SM10B-SRSS-TB(LF)(SN)
	11	10.0	13.0	455-1811-1-ND	8.82	73.50	294.00	3,000	488.04/M	SM11B-SRSS-TB(LF)(SN)
	12	11.0	14.0	455-1812-1-ND	9.28	77.31	309.23	3,000	513.33/M	SM12B-SRSS-TB(LF)(SN)
	13	12.0	15.0	455-1813-1-ND	9.98	83.15	332.58	3,000	552.09/M	SM13B-SRSS-TB(LF)(SN)
	14	13.0	16.0	455-1814-1-ND	10.14	84.52	338.06	3,000	561.18/M	SM14B-SRSS-TB(LF)(SN)
	15	14.0	17.0	455-1815-1-ND	10.57	88.05	352.19	3,000	584.64/M	SM15B-SRSS-TB(LF)(SN)
	20	19.0	22.0	455-1816-1-ND	13.17	109.75	438.99	3,000	728.73/M	SM20B-SRSS-TB(LF)(SN)
Contacts - Tin Plated										
32 ~ 28 AWG				455-1561-1-ND	4.41/100			23,000	23.47/M	SSH-003T-P0.2
32 ~ 28 AWG				455-1912-1-ND	2.00	16.69	66.76	1,000	110.82	MINI-SSH-003T-P0.2
Crimp Tool										
32 ~ 28 AWG				455-1376-ND	967.85/1			—	—	WC-SH2832

* For Tape and Reel part number, change 1-ND to 2-ND.

SHD Series 1.0mm Connectors

Features:

- Ultra compact double row design • Low Profile with a mounting height of 6.3mm (.248") for top entry type and 5.5mm (.217") for side entry type, and a width of 5.0mm (.197") for top entry type and 5.1mm (.201") for side entry type • Reliable Contact: The same contact can be used for the single row SH connectors • Anti-Misinsertion Feature: Ribs and grooves on the header and receptacle prevent misinsertion and distortion during mating and unmating.

Specifications:

- Current Rating: 1.0A AC, DC • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 32 ~ 28 AWG • Color: Natural (White)

Fig. 1

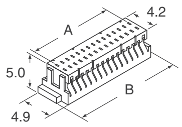

Fig. 2

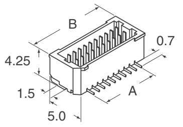

Fig. 3

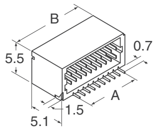

Fig. 4

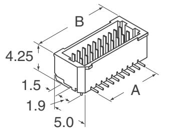

Fig.	Cir-cuits	Dim. - mm A	B	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape and Reel* Qty.	Pricing	JST Part No.
Housing										
1	20	9.0	13.0	455-1436-ND‡	1.45	12.11	48.43	—	—	SHDR-20V-S-B
	30	14.0	18.0	455-1437-ND‡	2.05	17.10	68.40	—	—	SHDR-30V-S-B
	40	19.0	23.0	455-1438-ND‡	2.08	17.32	69.27	—	—	SHDR-40V-S-B
	50	24.0	28.0	455-1439-ND‡	2.15	17.91	71.65	—	—	SHDR-50V-S-B
Shrouded Header										
Top Entry Type										
2	20	9.0	12.3	455-1862-1-ND	15.44	128.65	514.58	1,500	854.20/M	BM20B-SRDS-G-TF(LF)(SN)
	30	14.0	17.3	455-1863-1 -ND	20.17	168.05	672.18	1,500	1115.82/M	BM30B-SRDS-G-TF(LF)(SN)
	40	19.0	22.3	455-1864-1-ND	25.33	211.09	844.35	1,500	1401.62/M	BM40B-SRDS-G-TF(LF)(SN)
	50	24.0	27.3	455-1865-1-ND	30.50	254.13	1016.52	1,500	1687.42/M	BM50B-SRDS-G-TF(LF)(SN)
Side Entry Type										
3	20	9.0	13.1	455-1866-1-ND	16.95	141.27	565.06	1,250	938.00/M	SM20B-SRDS-G-TF(LF)(SN)
	30	14.0	18.1	455-1867-1-ND	19.29	160.78	643.13	1,250	1067.60/M	SM30B-SRDS-G-TF(LF)(SN)
	40	19.0	23.1	455-1868-1-ND	24.45	203.75	814.99	1,250	1352.88/M	SM40B-SRDS-G-TF(LF)(SN)
	50	24.0	28.1	455-1869-1-ND	28.76	239.64	958.55	1,250	1591.20/M	SM50B-SRDS-G-TF(LF)(SN)
Top Entry Type with a Boss										
4	20	9.0	12.3	455-1870-1-ND	15.44	128.67	514.69	1,250	854.39/M	BM20B-SRDS-A-G-TF(LF)(SN)
	30	14.0	17.3	455-1871-1-ND	20.17	168.07	672.28	1,250	1115.99/M	BM30B-SRDS-A-G-TF(LF)(SN)
	40	19.0	22.3	455-1872-1-ND	25.33	211.11	844.45	1,250	1401.79/M	BM40B-SRDS-A-G-TF(LF)(SN)
	50	24.0	27.3	455-1873-1-ND	30.50	254.16	1016.62	1,250	1687.60/M	BM50B-SRDS-A-G-TF(LF)(SN)
Contact - Gold Plated										
32 ~ 28 AWG				455-1435-1-ND	.69	5.73	22.93	23,000	30.50/M	SSH-003GA-P0.2
Crimp Tool										
32 ~ 28 AWG				455-1376-ND	967.85/1			—	—	WC-SH2832

* For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk

ACH Series 1.20mm Connectors

Features: • Disconnectable crimp style • Compact, Low Profile with height of 1.4mm (.055"), width of 4.3mm (.169"), and 1.2mm (.047") pitch wire-to-board connector • Top entry, side feed

Specifications: • Current Rating: 2A AC/DC (28 AWG) • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 30 ~ 28 AWG

Fig. 1

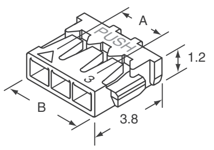

Fig. 2

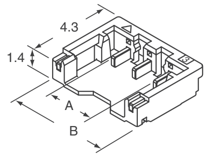

Fig.	Cir-cuits	Dim. - mm A	B	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape and Reel* Qty.	Pricing	JST Part No.
Housing										
1	2	1.2	2.6	455-2197-ND‡	.78	6.53	26.12	—	—	ACHR-02V-S
	2	1.2	3.2	455-2200-ND‡	1.22	10.16	40.64	—	—	ACHTP-02V-S
	2	1.2	3.2	455-2201-ND‡	1.14	9.52	38.08	—	—	ACHTR-02V-S
	3	2.4	3.8	455-2198-ND‡	.80	6.71	26.82	—	—	ACHR-03V-S
	4	3.6	5.0	455-2199-ND‡	.88	7.30	29.19	—	—	ACHR-04V-A-S
Shrouded Header										
Top Entry — Side Feed Type										
2	2	1.2	2.6	455-2202-1-ND	4.12	34.36	137.43	4,500	228.14/M	BM02B-ACHSS-GAN-TF(LF)(SN)
	3	2.4	3.8	455-2203-1-ND	4.81	40.12	160.46	4,500	266.37/M	BM03B-ACHSS-GAN-TF(LF)(SN)
	4	3.6	6.6	455-2204-1-ND	5.78	48.19	192.75	4,500	319.97/M	BM04B-ACHSS-A-GAN-TF(LF)(SN)
Contacts — Gold Plated										
30 ~ 28 AWG				455-2195-1-ND	.60	4.98	19.91	30,000	26.49/M	SACH-003G-P0.2
30 ~ 28 AWG				455-2196-1-ND	.54	4.51	18.02	30,000	23.97/M	SACHP-003G-P0.2
30 ~ 28 AWG				455-2206-2-ND▲	—	—	—	1,000	205.06	MINI-SACH-003G-P0.2
30 ~ 28 AWG				455-2207-2-ND▲	—	—	—	1,000	205.06	MINI-SACHP-003G-P0.2
Crimp Tools										
30 ~ 28 AWG				455-2205-ND	982.80/1			—	—	YRS-1190
Mini ACH Reel				455-2208-ND	1486.55/1			—	—	WC-ACH2830

* For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk

▲ Tape and Reel (not available in Cut Tape)

GH Series 1.25mm Connectors

Developed for plasma display panels, LCD monitors, notebook PCs, PDAs, mobile phones and other small electronic equipment.

Features: The innovative housing lock design achieves a locking device which is easy to handle as well as secure. The header is fully shrouded and this protects the receptacle from damage that could be caused by mating the connector at an angle. **Specifications:** • Current Rating: 1.0A AC/DC (26 AWG) • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: Conductor Size 30 ~ 26 AWG

Fig. 1

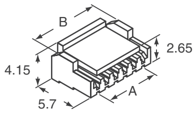

Fig. 2

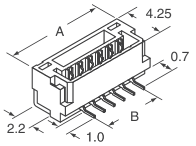

Fig. 3

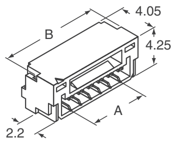

Fig.	Cir-cuits	Dimensions - mm A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Housing								
1	2	1.25	3.75	455-1592-ND	.62	5.19	20.74	GHR-02V-S
	3	2.50	5.00	455-1593-ND	.66	5.47	21.88	GHR-03V-S
	4	3.75	6.25	455-1594-ND	.69	5.76	23.03	GHR-04V-S
	5	5.00	7.50	455-1595-ND	1.11	9.27	37.09	GHR-05V-S
	6	6.25	8.75	455-1596-ND	1.13	9.45	37.78	GHR-06V-S
	7	7.50	10.00	455-1597-ND	1.16	9.67	38.69	GHR-07V-S
	8	8.75	11.25	455-1598-ND	1.17	9.76	39.05	GHR-08V-S
	9	10.00	12.50	455-1599-ND	1.18	9.80	39.20	GHR-09V-S
	10	11.25	13.75	455-1600-ND	1.19	9.90	39.61	GHR-10V-S
	11	12.50	15.00	455-1601-ND	1.22	10.19	40.76	GHR-11V-S
	12	13.75	16.25	455-1602-ND	1.24	10.36	41.45	GHR-12V-S
	13	15.00	17.50	455-1603-ND	1.27	10.60	42.38	GHR-13V-S
	14	16.25	18.75	455-1604-ND	1.29	10.77	43.07	GHR-14V-S
	15	17.50	20.00	455-1605-ND	1.32	11.00	43.98	GHR-15V-S

Fig.	Cir-cuits	Dim. - mm A	B	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape and Reel* Qty.	Pricing	JST Part No.
Headers										
Top Entry										
2	2	1.25	5.75	455-1578-1-ND	2.55	21.25	85.00	2,500	141.10/M	BM02B-GHS-TBT(LF)(SN)
	3	2.50	7.00	455-1579-1-ND	2.75	22.91	91.65	2,500	152.14/M	BM03B-GHS-TBT(LF)(SN)
	4	3.75	8.25	455-1580-1-ND	2.94	24.47	97.87	2,500	162.47/M	BM04B-GHS-TBT(LF)(SN)
	5	5.00	9.50	455-1581-1-ND	3.07	25.62	102.47	2,500	170.10/M	BM05B-GHS-TBT(LF)(SN)
	6	6.25	10.75	455-1582-1-ND	3.73	31.09	124.37	2,500	206.46/M	BM06B-GHS-TBT(LF)(SN)
	7	7.50	12.00	455-1583-1-ND	3.90	32.53	130.12	2,500	216.00/M	BM07B-GHS-TBT(LF)(SN)
	8	8.75	13.25	455-1584-1-ND	4.04	33.68	134.72	2,500	223.64/M	BM08B-GHS-TBT(LF)(SN)
	9	10.00	14.50	455-1585-1-ND	4.22	35.18	140.72	2,500	233.60/M	BM09B-GHS-TBT(LF)(SN)
	10	11.25	15.75	455-1586-1-ND	4.49	37.43	149.71	2,500	248.52/M	BM10B-GHS-TBT(LF)(SN)
	11	12.50	17.00	455-1587-1-ND	4.86	40.47	161.89	2,500	268.74/M	BM11B-GHS-TBT(LF)(SN)
	12	13.75	18.25	455-1588-1-ND	4.88	40.71	162.82	2,500	270.28/M	BM12B-GHS-TBT(LF)(SN)
	13	15.00	19.50	455-1589-1-ND	5.22	43.47	173.88	2,500	288.64/M	BM13B-GHS-TBT(LF)(SN)
	14	16.25	20.75	455-1590-1-ND	5.22	43.53	174.10	2,500	289.01/M	BM14B-GHS-TBT(LF)(SN)
	15	17.50	22.00	455-1591-1-ND	5.40	45.03	180.10	2,500	298.97/M	BM15B-GHS-TBT(LF)(SN)

* For Tape and Reel part number, change 1-ND to 2-ND.

‡ Tape and Reel (not available in Cut Tape)

(Continued)

GH Series 1.25mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dim. - mm A	Dim. - mm B	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Tape and Reel* Qty.	Tape and Reel* Pricing	JST Part No.
Side Entry										
3	2	1.25	5.75	455-1564-1-ND	2.67	22.28	89.12	2,500	147.94/M	SM02B-GHS-TB(LF)(SN)
	3	2.50	7.00	455-1565-1-ND	2.84	23.66	94.65	2,500	157.12/M	SM03B-GHS-TB(LF)(SN)
	4	3.75	8.25	455-1566-1-ND	3.01	25.10	100.40	2,500	166.67/M	SM04B-GHS-TB(LF)(SN)
	5	5.00	9.50	455-1567-1-ND	3.17	26.42	105.69	2,500	175.45/M	SM05B-GHS-TB(LF)(SN)
	6	6.25	10.75	455-1568-1-ND	3.88	32.30	129.19	2,500	214.46/M	SM 07B-GHS-TB(LF)(SN)
	8	8.75	13.25	455-1570-1-ND	4.32	35.99	143.94	2,500	238.94/M	SM08B-GHS-TB(LF)(SN)
	9	10.00	14.50	455-1571-1-ND	4.60	38.34	153.36	2,500	254.58/M	SM09B-GHS-TB(LF)(SN)
	10	11.25	15.75	455-1572-1-ND	4.75	39.61	158.44	2,500	263.02/M	SM10B-GHS-TB(LF)(SN)
	11	12.50	17.00	455-1573-1-ND	4.96	41.34	165.35	2,500	274.48/M	SM11B-GHS-TB(LF)(SN)
	12	13.75	18.25	455-1574-1-ND	5.15	42.89	171.57	2,500	284.81/M	SM12B-GHS-TB(LF)(SN)
	13	15.00	19.50	455-1575-1-ND	5.31	44.22	176.86	2,500	293.59/M	SM13B-GHS-TB(LF)(SN)
	14	16.25	20.75	455-1576-1-ND	5.46	45.49	181.94	2,500	302.02/M	SM14B-GHS-TB(LF)(SN)
	15	17.50	22.00	455-1577-1-ND	5.62	46.81	187.23	2,500	310.80/M	SM15B-GHS-TB(LF)(SN)
Contacts - Tin Plated										
30 ~ 26 AWG				455-1606-2-ND‡	—	—	—	23,000	23.47/M	SSHL-002T-P0.2
30 ~ 26 AWG				455-1607-1-ND	2.09	17.43	69.73	1,000	115.75	MINI-SSHL-002T-P0.2
Crimp Tools										
30 ~ 26 AWG				455-1609-ND		990.30/1		—	—	YRS-1140
Mini Reel				455-1608-ND		1419.00/1		—	—	WC-GH2630

* For Tape and Reel part number, change 1-ND to 2-ND. ‡ Tape and Reel (not available in Cut Tape)

GHD Series

1.25mm Connectors

This connector is designed to be the double-row type of the GH connector series.

Features:
• Secure locking device • Low insertion force • Prevention of contact deformation • Suction area for picking up

Specifications:
• Current Rating: 1.0A AC/DC (26 AWG) • Voltage Rating: 50 V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: Conductor size 30 to 26 AWG

Fig. 1

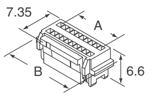

Fig. 2

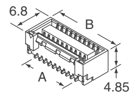

Fig.	Cir-cuits	Dim. - mm A	Dim. - mm B	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Tape and Reel* Qty.	Tape and Reel* Pricing	JST Part No.
Housing										
1	20	11.25	15.75	455-1913-ND‡	2.42	20.20	80.79	—	—	GHDR-(20)V-S
Header										
Top Entry										
2	20	11.25	15.75	455-1916-1-ND	11.77	98.10	392.40	1,250	651.39/M	BM(20)B-GHDS-G-TF(LF)(SN)
Contacts										
30 ~ 26 AWG				455-1914-1-ND	.46	3.81	15.24	20,000	20.27/M	SGHD-002GA-P0.2
30 ~ 26 AWG				455-1915-1-ND	3.28	27.29	109.17	1,000	181.22	MINI-SGHD-002GA-P0.2

* For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk

ZH Series 1.5mm Connectors

Features:
• This connector requires only about 45% of the installation space required by the standard JST 2.0mm connector • Contact retention lances allow visual confirmation of contact lock-in • The dimple at the center of the contact ensures positive contact and low contact resistance at all times, even when the connector is subjected to vibration or distortion. **Specifications:** • Current Rating: 1.0A AC/DC • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 36 ~ 32 AWG

Fig. 1

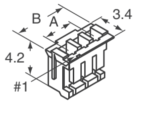

Fig. 2

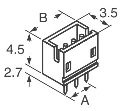

Fig. 3

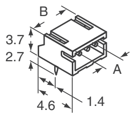

Fig. 4

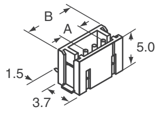

Fig. 5

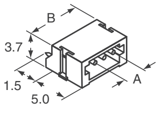

Fig.	Circuits	Dimensions - mm A	Dimensions - mm B	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	JST Part No.
Housing — Color: Natural White								
1	2	1.5	4.5	455-1366-ND	.37	3.12	12.46	ZHR-2
	3	3.0	6.0	455-1160-ND	.39	3.24	12.94	ZHR-3
	4	4.5	7.5	455-1202-ND	.47	3.93	15.73	ZHR-4
	5	6.0	9.0	455-1201-ND	.49	4.12	16.46	ZHR-5
	6	7.5	10.5	455-1129-ND	.80	6.65	26.58	ZHR-6
	7	9.0	12.0	455-1200-ND	.94	7.87	31.47	ZHR-7
	8	10.5	13.5	455-1199-ND	.99	8.28	33.12	ZHR-8
	9	12.0	15.0	455-1196-ND	1.09	9.06	36.23	ZHR-9
	10	13.5	16.5	455-1197-ND	1.10	9.17	36.69	ZHR-10
1	11	15.0	18.0	455-1191-ND	1.53	12.76	51.04	ZHR-11
	12	16.5	19.5	455-1195-ND	1.55	12.92	51.67	ZHR-12
	13	18.0	21.0	455-1194-ND	1.58	13.17	52.69	ZHR-13
Headers — Color: Natural Ivory								
Top Entry Thru-hole (Shrouded)								
2	2	1.5	4.5	455-1657-ND	.85	7.12	28.46	B2B-ZR(LF)(SN)
	3	3.0	6.0	455-1658-ND	1.11	9.23	36.93	B3B-ZR(LF)(SN)
	4	4.5	7.5	455-1659-ND	1.33	11.12	44.46	B4B-ZR(LF)(SN)
	5	6.0	9.0	455-1660-ND	1.58	13.17	52.69	B5B-ZR(LF)(SN)
	6	7.5	10.5	455-1661-ND	1.86	15.47	61.86	B6B-ZR(LF)(SN)
	7	9.0	12.0	455-1662-ND	2.31	19.23	76.91	B7B-ZR(LF)(SN)
	8	10.5	13.5	455-1663-ND	2.47	20.58	82.32	B8B-ZR(LF)(SN)
	9	12.0	15.0	455-1664-ND	2.86	23.82	95.26	B9B-ZR(LF)(SN)
	10	13.5	16.5	455-1665-ND	3.05	25.40	101.61	B10B-ZR(LF)(SN)
	11	15.0	18.0	455-1666-ND	3.95	32.93	131.71	B11B-ZR(LF)(SN)
	12	16.5	19.5	455-1667-ND	4.18	34.87	139.47	B12B-ZR(LF)(SN)
	13	18.0	21.0	455-1668-ND	4.24	35.31	141.23	B13B-ZR(LF)(SN)
Side Entry Thru-hole (Shrouded)								
3	2	1.5	4.5	455-1669-ND	.93	7.76	31.05	S2B-ZR(LF)(SN)
	3	3.0	6.0	455-1670-ND	1.21	10.12	40.46	S3B-ZR(LF)(SN)
	4	4.5	7.5	455-1671-ND	1.50	12.53	50.10	S4B-ZR(LF)(SN)
	5	6.0	9.0	455-1672-ND	1.80	15.00	59.98	S5B-ZR(LF)(SN)
	6	7.5	10.5	455-1673-ND	2.17	18.11	72.44	S6B-ZR(LF)(SN)
	7	9.0	12.0	455-1674-ND	2.63	21.88	87.50	S7B-ZR(LF)(SN)
	8	10.5	13.5	455-1675-ND	2.85	23.76	95.03	S8B-ZR(LF)(SN)
	9	12.0	15.0	455-1676-ND	3.20	26.64	106.54	S9B-ZR(LF)(SN)
	10	13.5	16.5	455-1677-ND	3.52	29.34	117.37	S10B-ZR(LF)(SN)
	11	15.0	18.0	455-1678-ND	3.86	32.17	128.66	S11B-ZR(LF)(SN)
	12	16.5	19.5	455-1679-ND	4.16	34.69	138.77	S12B-ZR(LF)(SN)
	13	18.0	21.0	455-1680-ND	4.47	37.28	149.12	S13B-ZR(LF)(SN)

Fig.	Cir-cuits	Dim. - mm A	Dim. - mm B	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Tape and Reel* Qty.	Tape and Reel* Pricing	JST Part No.
Headers										
Top Entry SMT (Shrouded)										
4	2	1.5	6.0	455-1681-1-ND	4.15	34.58	138.30	1,000	229.58	B2B-ZR-SM4-TF(LF)(SN)
	3	3.0	7.5	455-1682-1-ND	4.64	38.69	154.76	1,000	256.90	B3B-ZR-SM4-TF(LF)(SN)
	4	4.5	9.0	455-1683-1-ND	5.03	41.93	167.70	1,000	278.38	B4B-ZR-SM4-TF(LF)(SN)
	5	6.0	10.5	455-1684-1-ND	5.57	46.40	185.58	1,000	308.06	B5B-ZR-SM4-TF(LF)(SN)
	6	7.5	12.0	455-1685-1-ND	6.12	51.04	204.15	1,000	338.89	B6B-ZR-SM4-TF(LF)(SN)
	7	9.0	13.5	455-1686-1-ND	6.52	54.33	217.33	1,000	360.77	B7B-ZR-SM4-TF(LF)(SN)
	8	10.5	15.0	455-1687-1-ND	6.87	57.21	228.85	1,000	379.89	B8B-ZR-SM4-TF(LF)(SN)
	9	12.0	16.5	455-1688-1-ND	7.25	60.45	241.78	1,000	401.35	B9B-ZR-SM4-TF(LF)(SN)
	10	13.5	18.0	455-1689-1-ND	7.97	66.45	265.78	1,000	441.19	B10B-ZR-SM4-TF(LF)(SN)
	11	15.0	19.5	455-1690-1-ND	8.52	70.97	283.89	1,000	471.26	B11B-ZR-SM4-TF(LF)(SN)
	12	16.5	21.0	455-1691-1-ND	8.86	73.85	295.41	1,000	490.38	B12B-ZR-SM4-TF(LF)(SN)
	13	18.0	22.5	455-1692-1-ND	9.31	77.60	310.39	1,000	515.25	B13B-ZR-SM4-TF(LF)(SN)
Side Entry SMT (Shrouded)										
5	2	1.5	6.0	455-1693-1-ND	3.97	33.11	132.42	1,000	219.82	S2B-ZR-SM4A-TF(LF)(SN)
	3	3.0	7.5	455-1694-1-ND	4.64	38.63	154.53	1,000	256.52	S3B-ZR-SM4A-TF(LF)(SN)
	4	4.5	9.0	455-1695-1-ND	5.02	41.81	167.22	1,000	277.59	S4B-ZR-SM4A-TF(LF)(SN)
	5	6.0	9.0	455-1696-1-ND	5.40	45.04	180.16	1,000	299.07	S5B-ZR-SM4A-TF(LF)(SN)
	6	7.5	10.0	455-1610-1-ND	5.73	47.75	190.98	1,000	317.03	S6B-ZR-SM4A-TF(LF)(SN)
	7	9.0	13.5	455-1697-1-ND	6.27	52.22	208.86	1,000	346.71	S7B-ZR-SM4A-TF(LF)(SN)
	8	10.5	15.0	455-1698-1-ND	7.18	59.86	239.43	1,000	397.45	S8B-ZR-SM4A-TF(LF)(SN)
	9	12.0	16.5	455-1699-1-ND	7.59	63.27	253.07	1,000	420.10	S9B-ZR-SM4A-TF(LF)(SN)
	10	13.5	18.0	455-1700-1-ND	7.85	65.45	261.78	1,000	434.55	S10B-ZR-SM4A-TF(LF)(SN)
	11	15.0	19.5	455-1701-1-ND	8.23	68.56	274.24	1,000	455.24	S11B-ZR-SM4A-TF(LF)(SN)
	12	16.5	21.0	455-1702-1-ND	8.34	69.50	278.01	1,000	461.50	S12B-ZR-SM4A-TF(LF)(SN)
	13	18.0	22.5	455-1703-1-ND	8.42	70.20	280.79	1,000	466.11	S13B-ZR-SM4A-TF(LF)(SN)
Contacts - Tin Plated										
28 ~ 26 AWG				455-1130-1-ND	—	1.35	5.41	13,000	7.20/M	SZH-002T-P0.5
32 ~ 28 AWG				455-1281-1-ND	—	1.35	5.41	16,000	7.20/M	SZH-003T-P0.5
28 ~ 26 AWG				455-2275-2-ND‡	—	—	—	500	84.45	MINI-SZH-002T-P0.5
32 ~ 28 AWG				455-2276-2-ND‡	—	—	—	500	83.83	MINI-SZH-003T-P0.5
Crimp Tools										
28 ~ 26 AWG				455-1131-ND		419.19/1		—	—	WC-491
32 ~ 28 AWG				455-1259-ND		419.19/1		—	—	WC-490
Mini ZH Reel				455-2274-ND		1509.09/1		—	—	WC-ZH2632

* For Tape and Reel part number, change 1-ND to 2-ND. ‡ Tape and Reel (not available in Cut Tape)

ZR Series

1.5mm Connectors

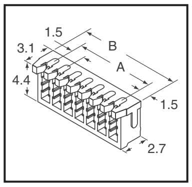

Mates with ZH Series Headers

Features: • Twin U-slot insulation displacement section • 3-point grip construction • Distortion resistant construction • Compatible with the ZH crimp style connector **Specifications:** • Current Rating: 0.7A AC, DC (AWG #28) • Voltage Rating: 50V AC, DC • Temp. Range: -25°C ~ 85°C • Insulation Resistance: 500MΩ minimum • Withstanding Voltage: 500V AC/minute • Applicable PC Board Thickness: 0.6 ~ 1.2mm (.024” ~ .047”)

Circuits	Dimensions - mm A	Dimensions - mm B	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	JST Part No.
30 AWG							
2	1.5	4.5	455-2278-ND	2.87	23.90	95.61	02ZR-3H-P
3	3.0	6.0	455-2279-ND	3.12	26.02	104.08	03ZR-3H-P
4	4.5	7.5	455-2280-ND	3.44	28.67	114.66	04ZR-3H-P
5	6.0	9.0	455-2281-ND	3.74	31.14	124.54	05ZR-3H-P
6	7.5	10.5	455-2282-ND	4.06	33.87	135.47	06ZR-3H-P
7	9.0	12.0	455-2283-ND	4.42	36.87	147.47	07ZR-3H-P

(Continued)

JST ZR Series 1.5mm Connectors *(Cont.)*

Circuits	Dimensions - mm A	 B	Digi-Key Part No.	Pricing 10	 100	 500	JST Part No.
8	10.5	13.5	455-2284-ND	4.92	41.01	164.03	08ZR-3H-P
9	12.0	15.0	455-2285-ND	4.99	41.54	166.17	09ZR-3H-P
10	13.5	16.5	455-2286-ND	5.60	46.66	186.63	10ZR-3H-P
12	16.5	19.5	455-2287-ND	6.26	52.13	208.51	12ZR-3H-P
13	18.0	21.0	455-2288-ND	6.85	57.07	228.26	13ZR-3H-P
28 AWG							
2	1.5	4.5	455-2289-ND	2.89	24.08	96.32	02ZR-8M-P
3	3.0	6.0	455-2290-ND	3.14	26.20	104.78	03ZR-8M-P
4	4.5	7.5	455-2291-ND	3.46	28.84	115.36	04ZR-8M-P
5	6.0	9.0	455-2292-ND	3.77	31.40	125.60	05ZR-8M-P
6	7.5	10.5	455-2293-ND	4.10	34.13	136.53	06ZR-8M-P
7	9.0	12.0	455-2294-ND	4.46	37.13	148.53	07ZR-8M-P
8	10.5	13.5	455-2295-ND	4.96	41.37	165.46	08ZR-8M-P
9	12.0	15.0	455-2296-ND	5.02	41.81	167.22	09ZR-8M-P
10	13.5	16.5	455-2297-ND	5.65	47.10	188.39	10ZR-8M-P
11	15.0	18.0	455-2298-ND	6.18	51.51	206.03	11ZR-8M-P
12	16.5	19.5	455-2299-ND	6.31	52.57	210.27	12ZR-8M-P
13	18.0	21.0	455-2300-ND	6.90	57.51	230.02	13ZR-8M-P
Crimp Tools							
Head Adapter			455-1375-ND		702.15/1		IDHZR(F)20
Pistol Grip Crimp Tool			455-1372-ND		144.18/1		IDB-12

PA and PAL Series

2.0mm Connectors

PA Series:

Features: • Standard type • Highly Reliable Contact: The contact supplies stable performance even under conditions of vibration, distortion, low voltage or low current • Insertion Guide Mechanism: The Header has housing insertion guides for easy and secure insertion • Flanged press pin **Specifications:** • Current Rating: 3A AC/DC (AWG 22) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG • Applicable PC Board Thickness: 1.6mm (.063")

PAL Series:

Features: • The industry's first wire to wire 2.0mm (.078") pitch retainer mountable type. **Specifications:** • Current Rating: 3A AC/DC (22 AWG) • Voltage Rating: 100V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG • Applicable Panel Thickness: 0.5 ~ 2.0mm (.020" ~ .079")

Fig. 1

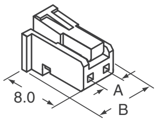

Fig. 2

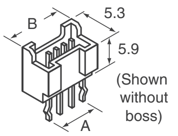

Fig. 3

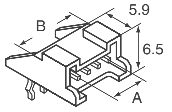

Fig. 4

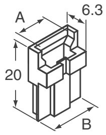

Fig. 5

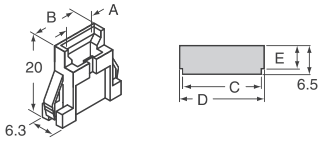

Fig.	Circuits	Dimensions - mm A	 B	Digi-Key Part No.	Pricing 10	 100	 500	JST Part No.
PA SERIES **Housing**								
1	2	2.0	6.0	455-1486-ND	.78	6.53	26.10	PAP-02V-S
	3	4.0	8.0	455-1487-ND	.82	6.80	27.21	PAP-03V-S
	4	6.0	10.0	455-1488-ND	.84	7.02	28.07	PAP-04V-S
	5	8.0	12.0	455-1489-ND	1.04	8.68	34.71	PAP-05V-S
	6	10.0	14.0	455-1490-ND	1.06	8.82	35.27	PAP-06V-S
	7	12.0	16.0	455-1491-ND	1.06	8.83	35.31	PAP-07V-S
	8	14.0	18.0	455-1492-ND	1.08	8.97	35.87	PAP-08V-S
	9	16.0	20.0	455-1493-ND	1.08	9.03	36.13	PAP-09V-S
	10	18.0	22.0	455-1494-ND	1.12	9.30	37.20	PAP-10V-S
	11	20.0	24.0	455-1495-ND	1.14	9.52	38.08	PAP-11V-S
	12	22.0	26.0	455-1496-ND	1.17	9.73	38.93	PAP-12V-S
	13	24.0	28.0	455-1497-ND	1.20	10.01	40.04	PAP-13V-S
	14	26.0	30.0	455-1498-ND	1.25	10.39	41.56	PAP-14V-S
	15	28.0	32.0	455-1499-ND	1.29	10.72	42.87	PAP-15V-S
	16	30.0	34.0	455-1500-ND	1.33	11.10	44.39	PAP-16V-S
Headers								
Top Entry without Boss (Shrouded)								
2	2	2.0	6.0	455-1817-ND	1.52	12.69	50.75	B02B-PASK(LF)(SN)
	3	4.0	8.0	455-1818-ND	1.89	15.76	63.03	B03B-PASK(LF)(SN)
	4	6.0	10.0	455-1819-ND	2.26	18.84	75.34	B04B-PASK(LF)(SN)
	5	8.0	12.0	455-1820-ND	2.78	23.19	92.76	B05B-PASK(LF)(SN)
	6	10.0	14.0	455-1821-ND	3.14	26.15	104.61	B06B-PASK(LF)(SN)
2	7	12.0	16.0	455-1822-ND	3.55	29.56	118.25	B07B-PASK(LF)(SN)
	8	14.0	18.0	455-1823-ND	3.91	32.58	130.31	B08B-PASK(LF)(SN)
	9	16.0	20.0	455-1824-ND	4.26	35.48	141.93	B09B-PASK(LF)(SN)
	10	18.0	22.0	455-1825-ND	5.26	43.87	175.46	B10B-PASK(LF)(SN)
	11	20.0	24.0	455-1826-ND	5.61	46.77	187.08	B11B-PASK(LF)(SN)
	12	22.0	26.0	455-1827-ND	5.95	49.62	198.48	B12B-PASK(LF)(SN)
	13	24.0	28.0	455-1828-ND	6.30	52.53	210.11	B13B-PASK(LF)(SN)
	14	26.0	30.0	455-1829-ND	6.66	55.49	221.96	B14B-PASK(LF)(SN)
	15	28.0	32.0	455-1830-ND	7.01	58.40	233.58	B15B-PASK(LF)(SN)
	16	30.0	34.0	455-1831-ND	7.50	62.47	249.88	B16B-PASK(LF)(SN)
Top Entry with Boss (Shrouded)								
2	2	2.0	6.0	455-1832-ND	1.52	12.69	50.75	B02B-PASK-1(LF)(SN)
	3	4.0	8.0	455-1833-ND	1.89	15.76	63.03	B03B-PASK-1(LF)(SN)
	4	6.0	10.0	455-1834-ND	2.26	18.84	75.34	B04B-PASK-1(LF)(SN)
	5	8.0	12.0	455-1835-ND	2.78	23.19	92.76	B05B-PASK-1(LF)(SN)
	6	10.0	14.0	455-1836-ND	3.14	26.15	104.61	B06B-PASK-1(LF)(SN)
	7	12.0	16.0	455-1837-ND	3.55	29.56	118.25	B07B-PASK-1(LF)(SN)
	8	14.0	18.0	455-1838-ND	3.91	32.58	130.31	B08B-PASK-1(LF)(SN)
	9	16.0	20.0	455-1839-ND	4.26	35.48	141.93	B09B-PASK-1(LF)(SN)
	10	18.0	22.0	455-1840-ND	5.26	43.87	175.46	B10B-PASK-1(LF)(SN)
	11	20.0	24.0	455-1841-ND	5.61	46.77	187.08	B11B-PASK-1(LF)(SN)
	12	22.0	26.0	455-1842-ND	5.95	49.62	198.48	B12B-PASK-1(LF)(SN)
	13	24.0	28.0	455-1843-ND	6.30	52.53	210.11	B13B-PASK-1(LF)(SN)
	14	26.0	30.0	455-1844-ND	6.66	55.49	221.96	B14B-PASK-1(LF)(SN)
	15	28.0	32.0	455-1845-ND	7.01	58.40	233.58	B15B-PASK-1(LF)(SN)
	16	30.0	34.0	455-1846-ND	7.50	62.47	249.88	B16B-PASK-1(LF)(SN)
Side Entry (Shrouded)								
3	2	2.0	6.0	455-1847-ND	2.02	16.82	67.27	S02B-PASK-2(LF)(SN)
	3	4.0	8.0	455-1848-ND	2.98	24.81	99.24	S03B-PASK-2(LF)(SN)
	4	6.0	10.0	455-1849-ND	3.29	27.44	109.74	S04B-PASK-2(LF)(SN)
	5	8.0	12.0	455-1850-ND	3.69	30.74	122.94	S05B-PASK-2(LF)(SN)
	6	10.0	14.0	455-1851-ND	3.84	31.96	127.84	S06B-PASK-2(LF)(SN)
	7	12.0	16.0	455-1852-ND	4.48	37.33	149.31	S07B-PASK-2(LF)(SN)
	8	14.0	18.0	455-1853-ND	4.87	40.57	162.27	S08B-PASK-2(LF)(SN)
	9	16.0	20.0	455-1854-ND	5.27	43.89	175.56	S09B-PASK-2(LF)(SN)
	10	18.0	22.0	455-1855-ND	5.68	47.35	189.39	S10B-PASK-2(LF)(SN)
	11	20.0	24.0	455-1856-ND	6.08	50.67	202.69	S11B-PASK-2(LF)(SN)
	12	22.0	26.0	455-1857-ND	6.42	53.48	213.90	S12B-PASK-2(LF)(SN)
	13	24.0	28.0	455-1858-ND	6.75	56.23	224.91	S13B-PASK-2(LF)(SN)
	14	26.0	30.0	455-1859-ND	7.11	59.23	236.92	S14B-PASK-2(LF)(SN)
	15	28.0	32.0	455-1860-ND	7.44	61.97	247.87	S15B-PASK-2(LF)(SN)
	16	30.0	34.0	455-1861-ND	7.68	64.01	256.04	S16B-PASK-2(LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing 100	 500	T&R Pricing* 8,000	JST Part No.
Contacts for PA Series					
26 ~ 22 AWG, Tin-Plated	455-1325-1-ND	2.21	8.82	13.23/M	SPHD-001T-P0.5
28 ~ 24 AWG, Tin-Plated	455-1313-1-ND	2.21	8.82	13.23/M	SPHD-002T-P0.5
Crimp Tools for PA Series					
26 ~ 22 AWG Contact	455-1238-ND	419.19/1		—	WC-610
28 ~ 24 AWG Contact	455-1237-ND	831.68/1		—	YRS-620

Fig.	Circuits	Dimensions - mm A	 B	 C	 D	 E	Digi-Key Part No.	Pricing 10	 100	 500	JST Part No.
PAL SERIES **Housing**											
Without Panel Locks											
4	2	2.0	9.4	—	—	—	455-1548-ND	.61	5.11	20.43	PALR-02VF
	3	4.0	11.4	—	—	—	455-1549-ND	.65	5.45	21.81	PALR-03VF
	4	6.0	13.4	—	—	—	455-1550-ND	.78	6.49	25.94	PALR-04VF
	5	8.0	15.4	—	—	—	455-1551-ND	.81	6.74	26.97	PALR-05VF
	6	10.0	17.4	—	—	—	455-1552-ND	.85	7.06	28.22	PALR-06VF
	7	12.0	19.4	—	—	—	455-1553-ND	1.11	9.24	36.96	PALR-07VF
	8	14.0	21.4	—	—	—	455-1554-ND	1.35	11.25	45.01	PALR-08VF
With Panel Locks											
5	2	2.0	9.4	9.8	13.4	4.6	455-1555-ND	.64	5.34	21.34	PALR-02V
	3	4.0	11.4	11.8	15.4	4.6	455-1556-ND	.67	5.57	22.26	PALR-03V
	4	6.0	13.4	13.8	17.4	4.6	455-1557-ND	.80	6.68	26.71	PALR-04V
	6	10.0	17.4	19.8	21.4	5.1	455-1558-ND	.87	7.26	29.05	PALR-06V
	7	12.0	19.4	21.8	23.4	5.1	455-1559-ND	1.14	9.49	37.96	PALR-07V
	8	14.0	21.4	23.8	25.4	5.1	455-1560-ND	1.38	11.54	46.15	PALR-08V

Description	Digi-Key Part No.	Cut Tape Pricing 10	 100	 500	T&R Pricing* 10,000	JST Part No.
Contacts - Tin Plated for PAL Series						
22 ~ 26 AWG	455-1546-1-ND	.23	1.95	7.81	10.39/M	SPAL-001T-P0.5
24 ~ 28 AWG	455-1547-1-ND	.23	1.95	7.81	10.39/M	SPAL-002T-P0.5
Crimp Tool for PAL Series						
22 ~ 28 AWG, Contact	455-1906-ND		432.05/1		—	YC-610R

* For Tape and Reel part number, change 1-ND to 2-ND.

PAD Series
2.0mm Connectors

Features: • Dual row construction allows high density mounting • Housing has a locking device to securely hold the header, preventing accidental disconnection due to external forces resulting from the routing of wires during assembly or due to vibration • Contact has long dimples near the center that ensure continuity of low voltage and low current circuits at all times, even under conditions of vibration and abusive prying • Header has housing insertion guides for easy and secure insertion

Specifications: • Current Rating: 3A AC/DC (AWG #22) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG

Fig. 1

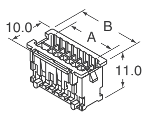

Fig. 2

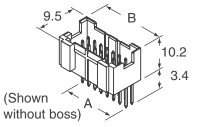

Fig. 3

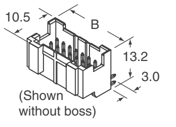

Fig.	Circuits	Dimension - mm A	Dimension - mm B	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	JST Part No.
Housing								
1	10	8.0	12.0	455-2140-ND	2.07	17.27	69.08	PADP-10V-1-S
	12	10.0	14.0	455-2141-ND	2.11	17.57	70.26	PADP-12V-1-S
	14	12.0	16.0	455-2142-ND	2.16	18.02	72.08	PADP-14V-1-S
	16	14.0	18.0	455-2143-ND	2.26	18.86	75.45	PADP-16V-1-S
	20	18.0	22.0	455-2144-ND	2.31	19.27	77.09	PADP-20V-1-S
	22	20.0	24.0	455-2145-ND	2.34	19.53	78.13	PADP-22V-1-S
	24	22.0	26.0	455-2146-ND	2.38	19.79	79.17	PADP-24V-1-S
Headers								
Top Entry With Boss (Shrouded)								
2	10	8.0	12.0	455-2001-ND	3.88	32.36	129.42	B10B-PADSS-1(LF)(SN)
	12	10.0	14.0	455-2004-ND	4.19	34.89	139.56	B12B-PADSS-1(LF)(SN)
	14	12.0	16.0	455-2007-ND	4.94	41.19	164.76	B14B-PADSS-1(LF)(SN)
	16	14.0	18.0	455-2010-ND	6.95	57.89	231.55	B16B-PADSS-1(LF)(SN)
	20	18.0	22.0	455-2013-ND	7.52	62.65	250.58	B20B-PADSS-1(LF)(SN)
	22	20.0	24.0	455-2016-ND	8.41	70.12	280.48	B22B-PADSS-1(LF)(SN)
	24	22.0	26.0	455-2018-ND	9.32	77.63	310.52	B24B-PADSS-1(LF)(SN)
Top Entry Without Boss (Shrouded)								
2	10	8.0	12.0	455-2000-ND	3.88	32.36	129.42	B10B-PADSS(LF)(SN)
	12	10.0	14.0	455-2003-ND	4.19	34.89	139.56	B12B-PADSS(LF)(SN)
	14	12.0	16.0	455-2006-ND	4.94	41.19	164.76	B14B-PADSS(LF)(SN)
	16	14.0	18.0	455-2009-ND	6.95	57.89	231.55	B16B-PADSS(LF)(SN)
	20	18.0	22.0	455-2012-ND	7.52	62.65	250.58	B20B-PADSS(LF)(SN)
	22	20.0	24.0	455-2015-ND	8.41	70.12	280.48	B22B-PADSS(LF)(SN)
	24	22.0	26.0	455-2017-ND	9.32	77.63	310.52	B24B-PADSS(LF)(SN)
Side Entry (Shrouded)								
3	10	8.0	12.0	455-2032-ND	4.47	37.21	148.84	S10B-PADSS-1(LF)(SN)
	16	14.0	18.0	455-2037-ND	5.82	48.49	193.94	S16B-PADSS-1(LF)(SN)
	20	18.0	22.0	455-2038-ND	7.28	60.64	242.55	S20B-PADSS-1(LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	T&R Pricing* 8,000	JST Part No.
Contacts						
26 ~ 22 AWG, Tin Plated	455-2147-1-ND	.24	2.03	8.12	12.18/M	SPH-001T-P0.5L
28 ~ 24 AWG, Tin Plated	455-2148-1-ND	.24	2.03	8.12	12.18/M	SPH-002T-P0.5L
Crimp Tools						
26 ~ 22 AWG	455-2048-ND	881.27/1			—	YRS-245
28 ~ 24 AWG	455-2047-ND	1310.91/1			—	YRS-241

* For Tape and Reel part number, change 1-ND to 2-ND.

NEW! PND Series
2.0mm Connectors

Features: • Excellent workability • Low insertion force • Rounded edges provide easy insertion, releasing and extraction • Secure locking device prevents accidental disconnection • Mating key prevents incorrect insertion • Headers with polarizing bosses prevent incorrect assembling to PC board

Specifications: • Current Rating: 3A • Voltage Rating: 250V • Temperature Range: -25°C ~ 85°C • Contact Resistance: Initial value / 10mΩ maximum • Applicable wire: 28AWG ~ 22AWG

Fig. 1

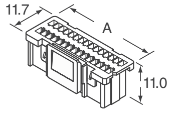

Fig. 2

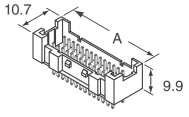

Fig.	No. of Circuits	Dimension A (mm)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	JST Part No.
Housings							
1	8	10.0	455-2305-ND	1.48	12.35	49.40	PNDP-08V-Z
	10	12.0	455-2306-ND	1.51	12.58	50.31	PNDP-10V-Z
	12	14.0	455-2307-ND	1.54	12.81	51.24	PNDP-12V-Z
	14	16.0	455-2308-ND	1.60	13.34	53.37	PNDP-14V-Z
	16	18.0	455-2309-ND	1.69	14.10	56.40	PNDP-16V-Z
	18	20.0	455-2310-ND	1.75	14.57	58.29	PNDP-18V-Z
	20	22.0	455-2311-ND	1.78	14.81	59.22	PNDP-20V-Z
	22	24.0	455-2312-ND	1.81	15.11	60.45	PNDP-22V-Z
	24	26.0	455-2313-ND	1.85	15.45	61.80	PNDP-24V-Z
	26	28.0	455-2314-ND	1.97	16.39	65.56	PNDP-26V-Z
	28	30.0	455-2315-ND	2.05	17.12	68.47	PNDP-28V-Z
	30	32.0	455-2316-ND	2.13	17.71	70.85	PNDP-30V-Z
	32	34.0	455-2317-ND	2.42	20.14	80.56	PNDP-32V-Z
1	34	36.0	455-2318-ND	2.47	20.61	82.42	PNDP-34V-Z
	36	38.0	455-2319-ND	2.53	21.12	84.49	PNDP-36V-Z
	38	40.0	455-2320-ND	2.59	21.58	86.33	PNDP-38V-Z
	40	42.0	455-2321-ND	2.78	23.20	92.78	PNDP-40V-Z
Shrouded Headers							
2	8	10.0	455-2322-ND	2.81	23.46	93.82	B08B-PNDZS-1
	10	12.0	455-2323-ND	3.14	26.20	104.80	B10B-PNDZS-1
	12	14.0	455-2324-ND	3.73	31.05	124.18	B12B-PNDZS-1
	14	16.0	455-2325-ND	4.20	35.03	140.11	B14B-PNDZS-1
	16	18.0	455-2326-ND	4.59	38.26	153.02	B16B-PNDZS-1
	18	20.0	455-2327-ND	5.13	42.77	171.07	B18B-PNDZS-1
	20	22.0	455-2328-ND	5.63	46.91	187.64	B20B-PNDZS-1
	22	24.0	455-2329-ND	6.66	55.51	222.03	B22B-PNDZS-1
	24	26.0	455-2330-ND	7.16	59.63	238.51	B24B-PNDZS-1
	26	28.0	455-2331-ND	7.28	60.69	242.77	B26B-PNDZS-1
	28	30.0	455-2332-ND	7.58	63.14	252.56	B28B-PNDZS-1
	30	32.0	455-2333-ND	8.23	68.56	274.22	B30B-PNDZS-1
	32	34.0	455-2334-ND	9.13	76.06	304.22	B32B-PNDZS-1
	34	36.0	455-2335-ND	9.51	79.23	316.93	B34B-PNDZS-1
	36	38.0	455-2336-ND	9.98	83.16	332.62	B36B-PNDZS-1
	38	40.0	455-2337-ND	10.80	90.04	360.15	B38B-PNDZS-1
	40	42.0	455-2338-ND	12.07	100.60	402.38	B40B-PNDZS-1
Retainers (Not UL and CSA approved)							
—	20	—	455-2339-ND	1.38	11.48	45.93	PNDS-20V-Z
	24	—	455-2340-ND	1.41	11.72	46.87	PNDS-24V-Z
	34	—	455-2341-ND	1.53	12.75	51.00	PNDS-34V-Z
	40	—	455-2342-ND	2.03	16.91	67.62	PNDS-40V-Z

Description	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Tape & Reel‡ Pricing 8,000	JST Part No.
Contacts						
Crimp Terminal, 26 ~ 22AWG	455-2303-1-ND	.26	2.14	8.56	12.84/M	SPND-001T-C0.5
Crimp Terminal, 28 ~ 24AWG	455-2304-1-ND	.26	2.14	8.56	12.84/M	SPND-002T-C0.5
Tools						
Crimp Tool for PND Series, 26 ~ 22AWG	455-2345-ND	502.28/1			—	WC-1091
Crimp Tool for PND Series, 28 ~ 24AWG	455-2346-ND	502.28/1			—	WC-1090
Hand Crimp Tool for SPND-001T	455-2343-ND	1042.74/1			—	YRS-1091
Hand Crimp Tool for SPND-002T	455-2344-ND	982.80/1			—	YRS-1090

‡ For Tape and Reel part number, change 1-ND to 2-ND.

JWPF Series
2.0mm Waterproof Wire-to-Wire Connectors

Features: • Developed specifically for extreme moisture or submersion applications • Seal ring is applied for complete sealing at mating side that is contained in the tab housing which protects from dust, moisture, etc. • Solid rubber seal is used for wire side sealing that makes the size compact. • The inter-housing lock secures the plug to the receptacles and prevents accidental disconnection.

Specifications: • Current Rating: 3A AC/DC • Voltage Rating: 100V AC/DC • Temperature Range: -40°C ~ 85°C • Applicable Wire: 26 ~ 22 AWG

Material and Finish: • Tab Contact: Brass, tin-plated • Receptacle Contact: Copper alloy, tin-plated • Housing Color: Natural (white)

Fig. 1

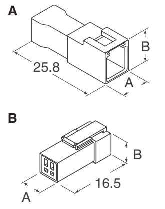

Fig. 2

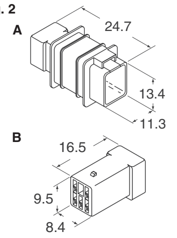

Fig. 3

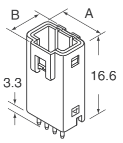

Fig.	Circuits	Dimensions - mm A	Dimensions - mm B	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	JST Part No.
Tab Housing								
1A	2	7.0	8.1	455-1166-ND	11.60	96.64	386.56	02T-JWPF-VSLE-S
	3	9.0	8.1	455-1188-ND	12.87	107.28	429.13	03T-JWPF-VSLE-S
	4	11.0	8.1	455-1170-ND	13.38	111.49	445.94	04T-JWPF-VSLE-S
	8	11.0	12.1	455-1193-ND	17.28	143.97	575.88	08T-JWPF-VSLE-D
2A	5	—	—	455-1190-ND†	25.73	214.41	857.65	05T-JWPF-HHLE-D
Receptacle Housing								
1B	2	6.7	5.5	455-1205-ND	5.56	46.34	185.35	02R-JWPF-VSLE-S
	3	8.7	5.5	455-1198-ND	6.42	53.49	213.96	03R-JWPF-VSLE-S
	4	10.7	5.5	455-1203-ND	6.51	54.21	216.84	04R-JWPF-VSLE-S
	8	10.7	9.5	455-1150-ND	8.73	72.79	291.14	08R-JWPF-VSLE-D
2B	5	—	—	455-1192-ND†	14.21	118.44	473.74	05R-JWPF-HHLE-D
Headers								
3	2	7.0	8.1	455-1991-ND	14.86	123.85	495.40	B02B-JWPF-SK-R(LF)(SN)
	3	9.0	8.4	455-1992-ND	15.38	128.18	512.73	B03B-JWPF-SK-R(LF)(SN)
	4	11.0	8.4	455-1993-ND	18.22	151.83	607.30	B04B-JWPF-SK-R(LF)(SN)

† Housing Color: Gray

Description	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	T&R* Pricing 8,200	JST Part No.
Contacts						
26 ~ 22 AWG, Tab Contact	455-1320-1-ND	.45	3.79	15.14	22.71/M	SWPT-001T-025
26 ~ 22 AWG, Receptacle Contact	455-1321-1-ND	.56	4.63	18.51	27.77/M	SWPR-001T-P025
Tools						
Production Crimp Tool	455-1370-ND	1014.24/1			—	YRS-980
Crimp Tool for 26 ~ 22 AWG Contacts	455-1371-ND	419.19/1			—	WC-JWPF
Extraction Tool	455-2277-ND	173.73/1			—	EJ-JWPF

* For Tape and Reel part number, change 1-ND to 2-ND.

JST PH Series 2.0mm Connectors

Features:
• Contact has long dimples near the center to ensure a good connection at all times • Square post is copper-undercoated and tin/lead-plated for solderability and for whisker prevention • This connector is also available in a surface mount configuration. Its housing is made of heat resistant resin so that it is not adversely affected during reflow soldering.

Specifications:
• Current Rating: 2A AC/DC • Voltage Rating: 100V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 32 ~ 24 AWG • Color: Natural (White)

Fig. 1

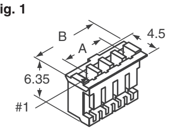

Fig. 2

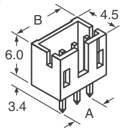

Fig. 3

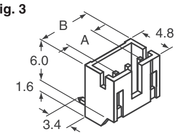

Fig. 4

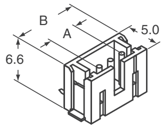

Fig. 5

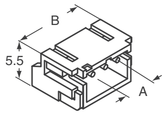

Fig.	Cir-cuits	Dimensions (mm)		Digi-Key Part No.	Cut Tape Pricing			T & R* Pricing	JST Part No.
		A	B		10	100	500	1,000	
Receptacle Housing									
1	2	2.0	5.8	455-1165-ND	.43	3.62	14.47	—	PHR-2
	3	4.0	7.8	455-1126-ND	.44	3.71	14.82	—	PHR-3
	4	6.0	9.8	455-1164-ND	.54	4.50	18.00	—	PHR-4
	5	8.0	11.8	455-1163-ND	.56	4.68	18.70	—	PHR-5
	6	10.0	13.8	455-1162-ND	.61	5.12	20.46	—	PHR-6
	7	12.0	15.8	455-1161-ND	.78	6.53	26.10	—	PHR-7
	8	14.0	17.8	455-1189-ND	.81	6.79	27.16	—	PHR-8
	9	16.0	19.8	455-1159-ND	.83	6.88	27.52	—	PHR-9
	10	18.0	21.8	455-1151-ND	.89	7.41	29.63	—	PHR-10
	11	20.0	23.8	455-1157-ND	1.59	13.23	52.92	—	PHR-11
	12	22.0	25.8	455-1156-ND	1.73	14.38	57.51	—	PHR-12
	13	24.0	27.8	455-1155-ND	1.83	15.26	61.04	—	PHR-13
	14	26.0	29.8	455-1154-ND	2.04	17.02	68.09	—	PHR-14
	15	28.0	31.8	455-1153-ND	2.12	17.64	70.56	—	PHR-15
	16	30.0	33.8	455-1152-ND	2.83	23.55	94.20	—	PHR-16
Headers									
Top Entry Thru-hole (Shrouded)									
2	2	2.0	5.9	455-1704-ND	.86	7.13	28.51	—	B2B-PH-K-S(LF)(SN)
	3	4.0	7.9	455-1705-ND	1.20	10.02	40.08	—	B3B-PH-K-S(LF)(SN)
	4	6.0	9.9	455-1706-ND	1.50	12.49	49.96	—	B4B-PH-K-S(LF)(SN)
	5	8.0	11.9	455-1707-ND	1.94	16.16	64.64	—	B5B-PH-K-S(LF)(SN)
	6	10.0	13.9	455-1708-ND	2.22	18.49	73.95	—	B6B-PH-K-S(LF)(SN)
	7	12.0	15.9	455-1709-ND	2.62	21.80	87.21	—	B7B-PH-K-S(LF)(SN)
	8	14.0	17.9	455-1710-ND	2.86	23.85	95.39	—	B8B-PH-K-S(LF)(SN)
	9	16.0	19.9	455-1711-ND	3.23	26.95	107.81	—	B9B-PH-K-S(LF)(SN)
	10	18.0	21.9	455-1712-ND	3.53	29.42	117.69	—	B10B-PH-K-S(LF)(SN)
	11	20.0	23.9	455-1713-ND	3.81	31.75	127.01	—	B11B-PH-K-S(LF)(SN)
	12	22.0	25.9	455-1714-ND	4.11	34.22	136.89	—	B12B-PH-K-S(LF)(SN)
	13	24.0	27.9	455-1715-ND	4.53	37.75	151.00	—	B13B-PH-K-S(LF)(SN)
	14	26.0	29.9	455-1716-ND	4.89	40.72	162.86	—	B14B-PH-K-S(LF)(SN)
	15	28.0	31.9	455-1717-ND	5.21	43.40	173.58	—	B15B-PH-K-S(LF)(SN)
	16	30.0	33.9	455-1718-ND	5.92	49.32	197.28	—	B16B-PH-K-S(LF)(SN)
Side Entry Thru-hole (Shrouded)									
3	2	2.0	5.9	455-1719-ND	.85	7.06	28.22	—	S2B-PH-K-S(LF)(SN)
	3	4.0	7.9	455-1720-ND	1.12	9.31	37.25	—	S3B-PH-K-S(LF)(SN)
	4	6.0	9.9	455-1721-ND	1.37	11.43	45.73	—	S4B-PH-K-S(LF)(SN)
	5	8.0	11.9	455-1722-ND	1.68	14.04	56.16	—	S5B-PH-K-S(LF)(SN)
	6	10.0	13.9	455-1723-ND	2.02	16.79	67.17	—	S6B-PH-K-S(LF)(SN)
	7	12.0	15.9	455-1724-ND	2.24	18.70	74.79	—	S7B-PH-K-S(LF)(SN)
	8	14.0	17.9	455-1725-ND	2.63	21.88	87.50	—	S8B-PH-K-S(LF)(SN)
	9	16.0	19.9	455-1726-ND	2.92	24.35	97.38	—	S9B-PH-K-S(LF)(SN)
	10	18.0	21.9	455-1727-ND	3.25	27.10	108.38	—	S10B-PH-K-S(LF)(SN)
	11	20.0	23.9	455-1728-ND	3.51	29.28	117.13	—	S11B-PH-K-S(LF)(SN)
	12	22.0	25.9	455-1729-ND	4.03	33.59	134.35	—	S12B-PH-K-S(LF)(SN)
	13	24.0	27.9	455-1730-ND	4.29	35.73	142.93	—	S13B-PH-K-S(LF)(SN)
	14	26.0	29.9	455-1731-ND	4.50	37.47	149.87	—	S14B-PH-K-S(LF)(SN)
	15	28.0	31.9	455-1732-ND	4.77	39.76	159.04	—	S15B-PH-K-S(LF)(SN)
	16	30.0	33.9	455-1733-ND	5.91	49.25	197.00	—	S16B-PH-K-S(LF)(SN)
Top Entry SMT (Shrouded)									
4	2	2.0	7.95	455-1734-1-ND	3.90	32.53	130.12	216.00	B2B-PH-SM4-TB(LF)(SN)
	3	4.0	9.95	455-1735-1-ND	4.46	37.19	148.74	246.91	B3B-PH-SM4-TB(LF)(SN)
	4	6.0	11.95	455-1736-1-ND	5.63	46.92	187.69	311.57	B4B-PH-SM4-TB(LF)(SN)
	5	8.0	13.95	455-1737-1-ND	6.08	50.66	202.65	336.40	B5B-PH-SM4-TB(LF)(SN)
	6	10.0	15.95	455-1738-1-ND	6.60	54.97	219.87	364.98	B6B-PH-SM4-TB(LF)SN)
	7	12.0	17.95	455-1739-1-ND	7.31	60.89	243.57	404.33	B7B-PH-SM4-TB(LF)(SN)
	8	14.0	19.95	455-1740-1-ND	7.80	64.99	259.94	431.50	B8B-PH-SM4-TB(LF)(SN)
	9	16.0	21.95	455-1741-1-ND	8.37	69.78	279.13	463.36	B9B-PH-SM4-TB(LF)(SN)
4	10	18.0	23.95	455-1742-1-ND	9.96	82.98	331.92	550.99	B10B-PH-SM4-TB(LF)(SN)
	11	20.0	25.95	455-1743-1-ND	10.59	88.27	353.08	586.11	B11B-PH-SM4-TB(LF)(SN)
	12	22.0	27.95	455-1744-1-ND	11.07	92.22	368.89	612.36	B12B-PH-SM4-TB(LF)(SN)
	13	24.0	29.95	455-1745-1-ND	11.42	95.19	380.74	632.03	B13B-PH-SM4-TB(LF)(SN)
	14	26.0	31.95	455-1746-1-ND	11.78	98.15	392.60	651.72	B14B-PH-SM4-TB(LF)(SN)
	15	28.0	33.95	455-1747-1-ND	12.13	101.11	404.45	671.39	B15B-PH-SM4-TB(LF)(SN)
	16	30.0	35.95	455-1748-1-ND	12.49	104.08	416.30	691.06	B16B-PH-SM4-TB(LF)(SN)
Side Entry SMT (Shrouded)									
5	2	2.0	7.9	455-1749-1-ND	4.11	34.22	136.89	227.24	S2B-PH-SM4-TB(LF)(SN)
	3	4.0	9.9	455-1750-1-ND	4.83	40.22	160.88	267.06	S3B-PH-SM4-TB(LF)(SN)
	4	6.0	11.9	455-1751-1-ND	5.57	46.43	185.71	308.28	S4B-PH-SM4-TB(LF)(SN)
	5	8.0	13.9	455-1752-1-ND	5.83	48.55	194.18	322.34	S5B-PH-SM4-TB(LF)(SN)
	6	10.0	15.9	455-1753-1-ND	6.96	58.00	232.00	385.12	S6B-PH-SM4-TB(LF)(SN)
	7	12.0	17.9	455-1754-1-ND	7.04	58.71	234.82	389.80	S7B-PH-SM4-TB(LF)(SN)
	8	14.0	19.9	455-1755-1-ND	7.55	62.94	251.76	417.92	S8B-PH-SM4-TB(LF)(SN)
	9	16.0	21.9	455-1756-1-ND	8.65	72.11	288.45	478.83	S9B-PH-SM4-TB(LF)(SN)
	10	18.0	23.9	455-1757-1-ND	9.98	83.19	332.77	552.40	S10B-PH-SM4-TB(LF)(SN)
	12	22.0	27.9	455-1758-1-ND	10.94	91.16	364.65	605.32	S12B-PH-SM4-TB(LF)(SN)
	13	24.0	29.9	455-1759-1-ND	11.43	95.26	381.02	632.49	S13B-PH-SM4-TB(LF)(SN)
	14	26.0	31.9	455-1760-1-ND	11.71	97.59	390.34	647.96	S14B-PH-SM4-TB(LF)(SN)
	15	28.0	33.9	455-1761-1-ND	11.99	99.91	399.65	663.42	S15B-PH-SM4-TB(LF)(SN)

* For Tape and Reel part number, change 1-ND to 2-ND.

Description	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel*		JST Part No.
		1	100	500	Qty.	Pricing	
Contacts-Tin Plated							
30 ~ 24 AWG	455-1127-1-ND	—	2.12	8.46	8,000	12.69/M	SPH-002T-P0.5S
32 ~ 28 AWG	455-1318-1-ND	—	2.03	8.12	10,000	10.80/M	SPH-004T-P0.5S
Crimp Tools							
30 ~ 24 AWG	455-1128-ND	419.19	—	—	—	—	WC-240
32 ~ 28 AWG	455-1236-ND	831.68	—	—	—	—	YRS-243

* For Tape and Reel part number, change 1-ND to 2-ND.

PHD Series 2.0mm Connectors

Features: • This compact design meets the demand for high-density connection • The box contact supplies stable contact performance

Specifications: • Current Rating: 3A AC/DC • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG

Fig. 1

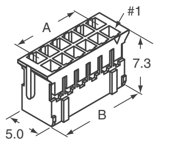

Fig. 2

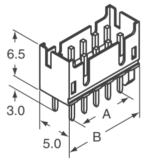

Fig. 3

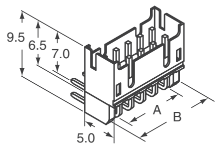

Fig.	Cir-cuits	Dimensions - mm		Digi-Key Part No.	Pricing			JST Part No.
		A	B		10	100	500	
Housing — Color: Natural White								
1	8	6.0	9.9	455-2265-ND	2.17	18.05	72.21	PHDR-08VS
	10	8.0	11.9	455-1158-ND	2.25	18.76	75.03	PHDR-10VS
	12	10.0	13.9	455-1204-ND	2.29	19.11	76.44	PHDR-12VS
	14	12.0	15.9	455-1172-ND	2.32	19.35	77.39	PHDR-14VS
	16	14.0	17.9	455-1173-ND	2.48	20.70	82.79	PHDR-16VS
	18	16.0	19.9	455-1905-ND	2.51	20.93	83.73	PHDR-18VS
	20	18.0	21.9	455-1174-ND	2.54	21.17	84.67	PHDR-20VS
	22	20.0	23.9	455-1175-ND	4.40	36.69	146.77	PHDR-22VS
	24	22.0	25.9	455-1177-ND	4.44	36.99	147.95	PHDR-24VS
	26	24.0	27.9	455-1178-ND	4.49	37.40	149.58	PHDR-26VS
	28	26.0	29.9	455-1171-ND	4.52	37.69	150.76	PHDR-28VS
	30	28.0	31.9	455-1180-ND	4.58	38.16	152.65	PHDR-30VS
	32	30.0	33.9	455-1179-ND	4.62	38.52	154.06	PHDR-32VS
	34	32.0	35.9	455-1182-ND	4.66	38.87	155.46	PHDR-34VS
Headers — Color: Natural Ivory								
Top Entry (Shrouded)								
2	8	6.0	9.9	455-2230-ND	2.94	24.48	97.91	B8B-PHDSS(LF)(SN)
	10	8.0	11.9	455-1762-ND	3.17	26.44	105.75	B10B-PHDSS(LF)(SN)
	12	10.0	13.9	455-1763-ND	3.71	30.89	123.55	B12B-PHDSS(LF)(SN)
	14	12.0	15.9	455-1764-ND	4.39	36.59	146.35	B14B-PHDSS(LF)(SN)
	16	14.0	17.9	455-1765-ND	4.74	39.50	158.00	B16B-PHDSS(LF)(SN)
	18	16.0	19.9	455-1766-ND	4.98	41.53	166.11	B18B-PHDSS(LF)(SN)
	20	18.0	21.9	455-1767-ND	5.41	45.11	180.44	B20B-PHDSS(LF)(SN)
	22	20.0	23.9	455-1768-ND	6.90	57.49	229.95	B22B-PHDSS(LF)(SN)
	24	22.0	25.9	455-1769-ND	7.48	62.37	249.49	B24B-PHDSS(LF)(SN)
	26	24.0	27.9	455-1770-ND	7.80	64.98	259.92	B26B-PHDSS(LF)(SN)
	28	26.0	29.9	455-1771-ND	8.15	67.91	271.65	B28B-PHDSS(LF)(SN)
	30	28.0	31.9	455-1772-ND	8.52	71.00	284.01	B30B-PHDSS(LF)(SN)
	32	30.0	33.9	455-1773-ND	8.87	73.94	295.74	B32B-PHDSS(LF)(SN)
	34	32.0	35.9	455-1774-ND	9.16	76.34	305.34	B34B-PHDSS(LF)(SN)

(Continued)

JST PHD Series 2.0mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dimensions - mm A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
				Side Entry (Shrouded)				
3	8	6.0	9.9	455-2256-ND	2.92	24.30	97.19	S8B-PHDSS(LF)(SN)(P)
	10	8.0	11.9	455-1775-ND	3.46	28.83	115.30	S10B-PHDSS(LF)(SN)
	12	10.0	13.9	455-1776-ND	4.05	33.77	135.06	S12B-PHDSS(LF)(SN)
	14	12.0	15.9	455-1777-ND	4.79	39.95	159.81	S14B-PHDSS(LF)(SN)
	16	14.0	17.9	455-1778-ND	4.96	41.31	165.24	S16B-PHDSS(LF)(SN)
	18	16.0	19.9	455-1779-ND	5.49	45.76	183.05	S18B-PHDSS(LF)(SN)
	20	18.0	21.9	455-1780-ND	5.98	49.83	199.33	S20B-PHDSS(LF)(SN)
	22	20.0	23.9	455-1781-ND	7.52	62.65	250.58	S22B-PHDSS(LF)(SN)
	24	22.0	25.9	455-1782-ND	8.16	68.02	272.08	S24B-PHDSS(LF)(SN)
	26	24.0	27.9	455-1783-ND	8.55	71.22	284.89	S26B-PHDSS(LF)(SN)
	28	26.0	29.9	455-1784-ND	8.82	73.50	294.01	S28B-PHDSS(LF)(SN)
	30	28.0	31.9	455-1785-ND	9.35	77.90	311.60	S30B-PHDSS(LF)(SN)
	32	30.0	33.9	455-1786-ND	9.75	81.21	324.84	S32B-PHDSS(LF)(SN)
	34	32.0	35.9	455-1787-ND	10.12	84.30	337.21	S34B-PHDSS(LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing 100	500	Tape & Reel Pricing* 8,000	JST Part No.
	Contacts-Tin Plated				
26 ~ 22 AWG	455-1325-1-ND	2.21	8.82	13.23/M	SPHD-001T-P0.5
28 ~ 24 AWG	455-1313-1-ND	2.21	8.82	13.23/M	SPHD-002T-P0.5
	Crimp Tools				
26 ~ 22 AWG Contacts	455-1238-ND	419.19/1		—	WC-610
28 ~ 24 AWG Contacts	455-1237-ND	831.68/1		—	YRS-620

* For Tape and Reel part number, change 1-ND to 2-ND.

EH Series 2.5mm Connectors

Features: • Compact and Slim: This connector is designed to be compact and unusually thin. It measures only 8.1mm (.319") high after mounting and is just 3.8mm (.150") wide. • Highly Reliable Contact: The contact has long dimples near the center that ensure continuity of low voltage and low current circuits at all times, even under conditions of vibration and abusive prying. • Polarizing Guides: The header and housing have guides to prevent improper mating. • Whisker Prevention: The contact material is treated with a reflow process, and the square post is copper-undercoated and tin/lead-plated for whisker prevention. • Easy and Effective Crimping: Although the contact is compact, it has a long wire strip length, 2.6 ± 0.4mm (.102" ± .016"). This long length is very useful for automatic crimping and when crimping shielded wires.

Specifications: • Current Rating: 3A AC/DC (22 AWG) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 32 ~ 22 AWG

Material and Finish: • Contact: Phosphor bronze, tin-plated • Housing: Nylon 66, UL94V-0, natural (white) • Posts for Headers: Brass, copper-undercoated, tin/lead plated • Wafer: Nylon 66, UL94V-0, natural (white)

Applicable PC Board Thickness: • 0.8 ~ 1.6mm (.031" ~ .063")

Fig. 1

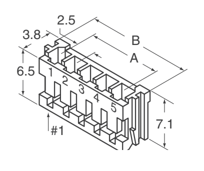

Fig. 2

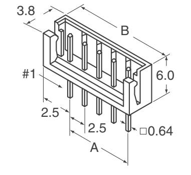

Fig. 3

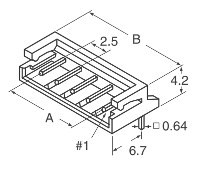

Fig.	Cir-cuits	Dimensions - mm A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
				Disconnectable Crimp Style Female Receptacle Housing — RoHS Compliant				
1	2	2.5	7.0	455-1000-ND	.40	3.32	13.26	EHR-2
	3	5.0	9.5	455-1001-ND	.44	3.67	14.68	EHR-3
	4	7.5	12.0	455-1002-ND	.45	3.74	14.96	EHR-4
	5	10.0	14.5	455-1003-ND	.50	4.16	16.65	EHR-5
	6	12.5	17.0	455-1004-ND	.54	4.52	18.06	EHR-6
	7	15.0	19.5	455-1005-ND	.63	5.22	20.88	EHR-7
	8	17.5	22.0	455-1006-ND	.65	5.44	21.74	EHR-8
	9	20.0	24.5	455-1007-ND	.93	7.76	31.05	EHR-9
	10	22.5	27.0	455-1008-ND	.98	8.19	32.74	EHR-10
	11	25.0	29.5	455-1009-ND	1.22	10.16	40.65	EHR-11
	12	27.5	32.0	455-1010-ND	1.47	12.28	49.11	EHR-12
	13	30.0	34.5	455-1011-ND	1.56	12.98	51.93	EHR-13
	14	32.5	37.0	455-1012-ND	1.98	16.51	66.05	EHR-14
	15	35.0	39.5	455-1013-ND	2.04	17.01	68.02	EHR-15
				Top Entry Shrouded Board-Mount Headers (Use with EH and HR Series Female Housing - Not TUV approved) — RoHS Compliant				
2	2	2.5	7.5	455-1611-ND	.69	5.76	23.05	B2B-EH-A(LF)(SN)
	3	5.0	10.0	455-1612-ND	.94	7.82	31.28	B3B-EH-A(LF)(SN)
	4	7.5	12.5	455-1613-ND	1.23	10.29	41.16	B4B-EH-A(LF)(SN)
	5	10.0	15.0	455-1614-ND	1.47	12.29	49.16	B5B-EH-A(LF)(SN)
	6	12.5	17.5	455-1615-ND	1.77	14.76	59.03	B6B-EH-A(LF)(SN)
	7	15.0	20.0	455-1616-ND	2.01	16.76	67.03	B7B-EH-A(LF)(SN)
	8	17.5	22.5	455-1617-ND	2.28	18.99	75.97	B8B-EH-A(LF)(SN)
	9	20.0	25.0	455-1618-ND	2.53	21.11	84.44	B9B-EH-A(LF)(SN)
	10	22.5	27.5	455-1619-ND	2.95	24.58	98.31	B10B-EH-A(LF)(SN)
	11	25.0	30.0	455-1620-ND	3.25	27.11	108.42	B11B-EH-A(LF)(SN)
	12	27.5	32.5	455-1621-ND	3.39	28.23	112.90	B12B-EH-A(LF)(SN)
	13	30.0	35.0	455-1622-ND	4.01	33.46	133.83	B13B-EH-A(LF)(SN)
	14	32.5	37.5	455-1623-ND	4.35	36.22	144.88	B14B-EH-A(LF)(SN)
	15	35.0	40.0	455-1624-ND	4.59	38.22	152.88	B15B-EH-A(LF)(SN)

Fig.	Cir-cuits	Dimensions - mm A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
				Side Entry Shrouded Board-Mount Headers (Use with EH and HR Series Female Housing)				
3	7	15.0	20.0	455- 1033-ND	2.26	18.82	75.26	S7B-EH
				Side Entry Shrouded Board-Mount Headers (Use with EH and HR Series Female Housing) — RoHS Compliant				
3	2	2.5	7.5	455-1625-ND	.83	6.88	27.52	S2B-EH(LF)(SN)
	3	5.0	10.0	455-1626-ND	.99	8.23	32.93	S3B-EH(LF)(SN)
	4	7.5	12.5	455-1627-ND	1.17	9.76	39.04	S4B-EH(LF)(SN)
	5	10.0	15.0	455-1628-ND	1.53	12.76	51.04	S5B-EH(LF)(SN)
	6	12.5	17.5	455-1629-ND	1.91	15.88	63.50	S6B-EH(LF)(SN)
	7	15.0	20.0	455-1630-ND	2.26	18.82	75.26	S7B-EH(LF)(SN)
	8	17.5	22.5	455-1631-ND	2.65	22.05	88.20	S8B-EH(LF)(SN)
	9	20.0	25.0	455-1632-ND	2.82	23.52	94.08	S9B-EH(LF)(SN)
	10	22.5	27.5	455-1633-ND	3.48	28.99	115.95	S10B-EH(LF)(SN)
	11	25.0	30.0	455-1634-ND	3.85	32.11	128.42	S11B-EH(LF)(SN)
	12	27.5	32.5	455-1635-ND	4.08	33.99	135.94	S12B-EH(LF)(SN)
	13	30.0	35.0	455-1636-ND	5.03	41.93	167.70	S13B-EH(LF)(SN)
	14	32.5	37.5	455-1637-ND	5.35	44.57	178.28	S14B-EH(LF)(SN)
	15	35.0	40.0	455-1638-ND	5.76	47.98	191.92	S15B-EH(LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing 100	500	T&R Pricing* 9,000	JST Part No.
	Contact — RoHS Compliant				
30 ~ 22 AWG	455-1042-1-ND	1.94	7.76	11.64/M	SEH-001T-P0.6
	Crimp Tool				
30 ~ 22 AWG Contacts	455-1043-ND	432.51/1		—	WC-260

* For Tape and Reel part number, change 1-ND to 2-ND.

XH Series

2.5mm Connectors

The XH connector was developed based on the high reliability and versatility of the NH series connectors. The connector is very small with a mounting height of 9.8mm (.386").

Specifications: • Current Rating: 3A AC/DC (AWG #22) • Voltage Rating: 250V AC/DC • Temperature Range: • -25°C ~ 85°C • Applicable Wire: 30 to 22 AWG • Applicable PC Board Thickness: 1.6mm (.063")

Fig. 1

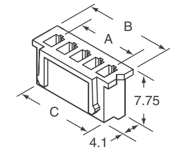

Fig. 2

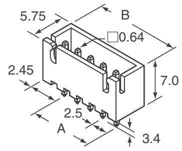

Fig. 3

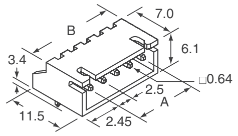

Fig. 4

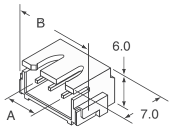

Fig.	Circuits	Dimension - mm A	B	C	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
					Housing				
1	1	—	3.2	4.8	455-2220-ND	1.86	15.54	62.14	XHP-1
	2	2.5	5.7	7.3	455-2266-ND	.49	4.06	16.23	XHP-2
	3	5.0	8.2	9.8	455-2219-ND	.54	4.50	18.00	XHP-3
	4	7.5	10.7	12.3	455-2267-ND	.54	4.50	18.00	XHP-4
	5	10.0	13.2	14.8	455-2268-ND	.60	5.03	20.11	XHP-5
	6	12.5	15.7	17.3	455-2218-ND	.71	5.91	23.64	XHP-6
	7	15.0	18.2	19.8	455-2269-ND	.74	6.18	24.70	XHP-7
	9	20.0	23.2	24.8	455-2217-ND	1.14	9.53	38.10	XHP-9
	10	22.5	25.7	27.3	455-2210-ND	1.15	9.61	38.45	XHP-10
	11	25.0	28.2	29.8	455-2216-ND	1.50	12.53	50.10	XHP-11
	12	27.5	30.7	32.3	455-2215-ND	1.59	13.23	52.92	XHP-12
	13	30.0	33.2	34.8	455-2214-ND	1.82	15.17	60.68	XHP-13
	14	32.5	35.7	37.3	455-2213-ND	2.35	19.58	78.32	XHP-14
	15	35.0	38.2	39.8	455-2212-ND	2.40	20.02	80.08	XHP-15
	16	37.5	40.7	42.3	455-2209-ND	4.16	34.66	138.65	XHP-16
	20	47.5	50.7	52.3	455-2211-ND	5.69	47.45	189.81	XHP-20
					Header				
					Top Entry (Shrouded)				
2	2	2.5	7.4	—	455-2247-ND	.74	6.18	24.70	B2B-XH-A(LF)(SN)
	3	5.0	9.9	—	455-2248-ND	.95	7.94	31.75	B3B-XH-A(LF)(SN)
	4	7.5	12.4	—	455-2249-ND	1.28	10.70	42.81	B4B-XH-A(LF)(SN)
	5	10.0	14.9	—	455-2270-ND	1.57	13.06	52.22	B5B-XH-A(LF)(SN)
	6	12.5	17.4	—	455-2271-ND	1.83	15.23	60.92	B6B-XH-A(LF)(SN)
	7	15.0	19.9	—	455-2252-ND	2.18	18.17	72.68	B7B-XH-A(LF)(SN)
	8	17.5	22.4	—	455-2251-ND	2.41	20.11	80.44	B8B-XH-A(LF)(SN)
	9	20.0	24.9	—	455-2244-ND	2.70	22.52	90.08	B9B-XH-A(LF)(SN)
	10	22.5	27.4	—	455-2253-ND	3.15	26.23	104.90	B10B-XH-A(LF)(SN)
	11	25.0	29.9	—	455-2255-ND	3.32	27.70	110.78	B11B-XH-A(LF)(SN)
	12	27.5	32.4	—	455-2259-ND	3.84	31.99	127.95	B12B-XH-A(LF)(SN)
	13	30.0	34.9	—	455-2260-ND	4.09	34.05	136.19	B13B-XH-A(LF)(SN)
	14	32.5	37.4	—	455-2258-ND	4.42	36.81	147.23	B14B-XH-A(LF)(SN)
	15	35.0	39.9	—	455-2254-ND	4.76	39.63	158.53	B15B-XH-A(LF)(SN)
	16	37.5	42.4	—	455-2241-ND	5.02	41.87	167.46	B16B-XH-A(LF)(SN)

(Continued)

JST XH Series 2.5mm Connectors *(Cont.)*

Fig.	Circuits	Dimension - mm A	B	C	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Top Entry (Shrouded) With Boss									
2	1	—	4.9	—	455-2227-ND	1.73	14.41	57.62	B1B-XH-AM(LF)(SN)
	2	2.5	7.4	—	455-2273-ND	.83	6.88	27.52	B2B-XH-AM(LF)(SN)
	3	5.0	9.9	—	455-2231-ND	1.06	8.82	35.28	B3B-XH-AM(LF)(SN)
	4	7.5	12.4	—	455-2237-ND	1.38	11.47	45.86	B4B-XH-AM(LF)(SN)
	5	10.0	14.9	—	455-2239-ND	1.61	13.41	53.62	B5B-XH-AM(LF)(SN)
	6	12.5	17.4	—	455-2238-ND	2.00	16.64	66.56	B6B-XH-AM(LF)(SN)
	7	15.0	19.9	—	455-2235-ND	2.27	18.96	75.83	B7B-XH-AM(LF)(SN)
	8	17.5	22.4	—	455-2232-ND	2.50	20.87	83.49	B8B-XH-AM(LF)(SN)
	10	22.5	27.4	—	455-2234-ND	3.21	26.75	106.98	B10B-XH-AM(LF)(SN)
	12	27.5	32.4	—	455-2233-ND	3.94	32.80	131.18	B12B-XH-AM(LF)(SN)
Side Entry (Shrouded)									
3	2	2.5	7.4	—	455-2257-ND	1.07	8.94	35.75	S2B-XH-A(LF)(SN)
	3	5.0	9.9	—	455-2250-ND	1.35	11.23	44.92	S3B-XH-A(LF)(SN)
	4	7.5	12.4	—	455-2243-ND	1.70	14.17	56.68	S4B-XH-A(LF)(SN)
	5	10.0	14.9	—	455-2242-ND	2.04	17.00	67.98	S5B-XH-A(LF)(SN)
	6	12.5	17.4	—	455-2236-ND	2.60	21.70	86.79	S6B-XH-A(LF)(SN)
	7	15.0	19.9	—	455-2240-ND	3.00	24.99	99.96	S7B-XH-A(LF)(SN)
	8	17.5	22.4	—	455-2225-ND	3.20	26.64	106.54	S8B-XH-A(LF)(SN)
	9	20.0	24.9	—	455-2224-ND	3.82	31.81	127.24	S9B-XH-A(LF)(SN)
	10	22.5	27.4	—	455-2228-ND	4.01	33.40	133.59	S10B-XH-A(LF)(SN)
	11	25.0	29.9	—	455-2226-ND	4.79	39.93	159.71	S11B-XH-A(LF)(SN)
	12	27.5	32.4	—	455-2221-ND	5.24	43.63	174.52	S12B-XH-A(LF)(SN)
	13	30.0	34.9	—	455-2223-ND	5.65	47.10	188.39	S13B-XH-A(LF)(SN)
	14	32.5	37.4	—	455-2222-ND	5.76	48.04	192.16	S14B-XH-A(LF)(SN)
	15	35.0	39.9	—	455-2272-ND	7.06	58.80	235.20	S15B-XH-A(LF)(SN)
	16	37.5	42.4	—	455-2229-ND	7.95	66.29	265.16	S16B-XH-A(LF)(SN)

Fig.	Cir-cuits	Dimensions - mm A	B	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel* Pricing 500	JST Part No.
Headers									
SMT Entry (Shrouded)									
4	3	5.0	12.5	455-2263-1-ND	.57	5.22	43.51	174.05	S3B-XH-SM4-TB(LF)(SN)
	4	7.5	15.0	455-2262-1-ND	.64	5.91	49.22	196.86	S4B-XH-SM4-TB(LF)(SN)
	6	12.5	20.0	455-2264-1-ND	.85	7.84	65.33	261.30	S6B-XH-SM4-TB(LF)(SN)

* For Tape and Reel part number, change 1-ND to 2-ND.

Description	Digi-Key Part No.	Cut Tape Pricing 100	500	Tape & Reel Pricing* 8,000	JST Part No.
Contacts					
30 ~ 26 AWG	455-2261-1-ND	3.18	12.71	19.07/M	SXH-002T-P0.6
28 ~ 22 AWG	455-1135-1-ND	3.09	12.35	148.20	SXH-001T-P0.6
Tools					
Crimp Tool for 30 ~ 26 AWG	455-2245-ND	831.68/1		—	YRS-480
Crimp Tool for 28 ~ 22 AWG	455-1136-ND	419.19/1		—	WC-110
Extraction Tool	455-2246-ND	46.56/1		—	XJ-06

* For Tape and Reel part number, change 1-ND to 2-ND.

XA Series

2.5mm Connectors

Features:
• Locking device to prevent accidental disconnection • Header wafer made of glass filled PA66 nylon, effective against solder crack • Low insertion force • Insertion guide mechanism

Specifications:
• Current Rating: 3A AC/DC (AWG 20) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C
• Applicable Wire: AWG 28 ~ 20

Fig. 1

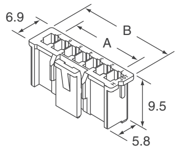

Fig. 2

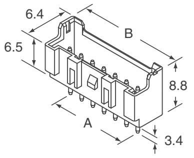

Fig. 3

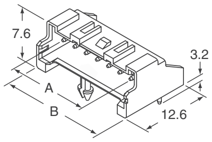

Fig. 4

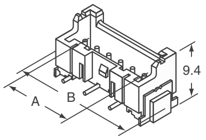

Fig.	Cir-cuits	Dimensions - mm A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Housing								
1	3	5.0	9.8	455-2149-ND	.63	5.27	21.06	XAP-03V-1
	4	7.5	12.3	455-2150-ND	.79	6.57	26.27	XAP-04V-1
	5	10.0	14.8	455-2151-ND	.80	6.68	26.71	XAP-05V-1
	6	12.5	17.3	455-2152-ND	1.03	8.58	34.30	XAP-06V-1
	7	15.0	19.8	455-2153-ND	1.06	8.80	35.18	XAP-07V-1
1	8	17.5	22.3	455-2154-ND	1.67	13.90	55.59	XAP-08V-1
	9	20.0	24.8	455-2155-ND	1.69	14.06	56.24	XAP-09V-1
	10	22.5	27.3	455-2156-ND	1.90	15.85	63.41	XAP-10V-1
	11	25.0	29.8	455-2157-ND	1.93	16.07	64.27	XAP-11V-1
	12	27.5	32.3	455-2158-ND	1.96	16.34	65.36	XAP-12V-1
	13	30.0	34.8	455-2159-ND	1.99	16.61	66.44	XAP-13V-1
	14	32.5	37.3	455-2160-ND	2.05	17.05	68.19	XAP-14V-1
	15	35.0	39.8	455-2161-ND	2.07	17.26	69.05	XAP-15V-1
Headers								
Top Entry - Through Hole (Shrouded) Without Boss								
2	2	2.5	7.5	455-1989-ND	1.19	9.93	39.71	B02B-XASK-1(LF)(SN)
	3	5.0	10.0	455-1990-ND	1.57	13.06	52.22	B03B-XASK-1(LF)(SN)
	4	7.5	12.5	455-1994-ND	1.95	16.23	64.91	B04B-XASK-1(LF)(SN)
	5	10.0	15.0	455-1995-ND	2.47	20.57	82.26	B05B-XASK-1(LF)(SN)
	6	12.5	17.5	455-1996-ND	2.85	23.74	94.95	B06B-XASK-1(LF)(SN)
	8	17.5	22.5	455-1998-ND	3.78	31.50	126.00	B08B-XASK-1(LF)(SN)
	9	20.0	25.0	455-1999-ND	4.20	35.03	140.11	B09B-XASK-1(LF)(SN)
	12	27.5	32.5	455-2005-ND	5.85	48.79	195.15	B12B-XASK-1(LF)(SN)
Side Entry - Through Hole (Shrouded)								
3	2	2.5	7.5	455-2044-ND	3.41	28.38	113.51	S0B2-XASS-1(LF)(SN)

Fig.	Cir-cuits	Dim. - mm A	B	Digi-Key Part No.	Cut Tape Pricing 10	100	Tape & Reel* Pricing 500	JST Part No.
Headers								
SMT Type (Shrouded)								
4	2	2.5	10.0	455-2022-1-ND	6.06	50.54	202.16	BM02B-XASS-TF(LF)(SN)
	3	5.0	12.5	455-2023-1-ND	7.57	63.05	252.19	BM03B-XASS-TF(LF)(SN)
	5	10.0	17.5	455-2024-1-ND	8.74	72.80	291.20	BM05B-XASS-TF(LF)(SN)
	6	12.5	20.0	455-2025-1-ND	9.50	79.16	316.63	BM06B-XASS-TF(LF)(SN)
	7	15.0	22.5	455-2026-1-ND	11.39	94.94	379.77	BM07B-XASS-TF(LF)(SN)
	8	17.5	25.0	455-2027-1-ND	11.83	98.56	394.25	BM08B-XASS-TF(LF)(SN)
	9	20.0	27.5	455-2028-1-ND	12.27	102.23	408.92	BM09B-XASS-TF(LF)(SN)
	13	30.0	37.5	455-2029-1-ND	15.61	130.10	520.40	BM13B-XASS-TF(LF)(SN)

* For Tape and Reel part number, change 1-ND to 2-ND.

Description	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape & Reel Pricing* 8,000	JST Part No.
Contacts - Tin Plated — RoHS Compliant						
26 ~ 22 AWG	455-2050-1-ND	.23	1.88	7.53	11.30/M	SXA-001T-P0.6L
24 ~ 20 AWG	455-2051-1-ND	.23	1.88	7.53	11.30/M	SXA-01T-P0.6
Hand Crimp Tools						
26 ~ 22 AWG	455-2045-ND		419.19/1		—	WC-691
24 ~ 20 AWG	455-2046-ND		509.01/1		—	WC-700M
24 ~ 20 AWG	455-2049-ND		1144.50/1		—	YRS-692

* For Tape and Reel part number, change 1-ND to 2-ND.

XAD Series

2.5mm Connectors

Features:
• Locking device prevents accidental disconnection • Solder crack preventive material • Mis-insertion preventative design

Specifications:
• Current Rating: 3A AC/DC (20 AWG) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C
• Applicable Wire: 28 ~ 20 AWG

Fig. 1

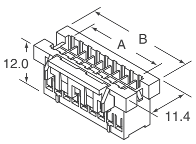

Fig. 2

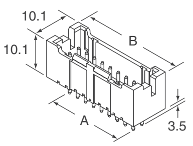

Fig. 3

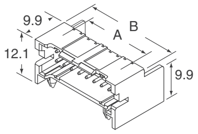

Fig.	Cir-cuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
Housing								
1	8	7.5	14.7	455-2162-ND	—	2.07	17.27	XADRP-08V
	10	10.0	17.2	455-2163-ND	—	2.11	17.62	XADRP-10V
	12	12.5	19.7	455-2164-ND	—	2.15	17.96	XADRP-12V
	14	15.0	22.2	455-2165-ND	—	2.20	18.33	XADRP-14V
	16	17.5	24.7	455-2166-ND	—	2.24	18.70	XADRP-16V
	18	20.0	27.2	455-2167-ND	—	2.29	19.05	XADRP-18V
	20	22.5	29.7	455-2168-ND	—	2.33	19.39	XADRP-20V
	22	25.0	32.2	455-2169-ND	—	2.37	19.74	XADRP-22V
	24	27.5	34.7	455-2170-ND	—	2.41	20.08	XADRP-24V
	26	30.0	37.2	455-2171-ND	—	2.47	20.57	XADRP-26V
	28	32.5	39.7	455-2172-ND	—	2.50	20.83	XADRP-28V

(Continued)

JST XAD Series 2.5mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
1	30	35.0	42.2	455-2174-ND	—	2.55	21.25	XADRP-30V
	34	40.0	47.2	455-2173-ND	—	2.62	21.86	XADRP-34V
	40	47.5	54.7	455-2175-ND	—	2.75	22.95	XADRP-40V
Headers								
Top Entry (Shrouded)								
2	8	7.5	15.0	455-1997-ND	—	4.17	34.77	B08B-XADSS-N(LF)(SN)
	10	10.0	17.5	455-2002-ND	—	4.72	39.33	B10B-XADSS-N(LF)(SN)
	14	15.0	22.5	455-2008-ND	—	5.51	45.95	B14B-XADSS-N(LF)(SN)
	18	20.0	27.5	455-2011-ND	—	6.60	55.02	B18B-XADSS-N(LF)(SN)
	20	22.5	30.0	455-2014-ND	—	6.87	57.26	B20B-XADSS-N(LF)(SN)
	26	30.0	37.5	455-2019-ND	—	8.85	73.72	B26B-XADSS-N(LF)(SN)
	36	42.5	50.0	455-2020-ND	—	12.68	105.68	B36B-XADSS-N(LF)(SN)
	40	47.5	55.0	455-2021-ND	—	14.45	120.42	B40B-XADSS-N(LF)(SN)
Side Entry (Shrouded)								
3	8	7.5	15.0	455-2031-ND	1.41	12.98	108.14	S08B-XADSS-N(LF)(SN)
	12	12.5	20.0	455-2033-ND	1.52	14.04	117.01	S12B-XADSS-N(LF)(SN)
	14	15.0	22.5	455-2034-ND	1.68	15.55	129.57	S14B-XADSS-N(LF)(SN)
	20	22.5	30.0	455-2035-ND	2.13	19.69	164.10	S20B-XADSS-N(LF)(SN)
	26	30.0	37.5	455-2036-ND	3.49	32.23	268.60	S26B-XADSS-N(LF)(SN)

VH Series

3.96mm Connectors

Features:

- Reliable VH connector can be used in a wide variety of applications
- Mounting height of 16.5mm
- Lock mechanism which prevents the connector from coming loose and prevents mis-insertion

Specifications:

- Current Rating: 10A AC/DC
- Voltage Rating: 250V AC/DC
- Temperature Range: -25°C ~ 85°C
- Applicable Wire: 22 ~ 16 AWG
- Color: Natural (White)

Fig. 1

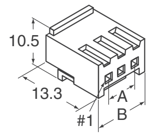

Fig. 2

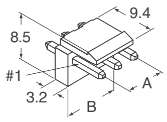

Fig. 3

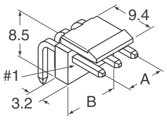

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Housing								
1	2	3.96	7.86	455-1183-ND	.62	5.18	20.70	VHR-2N
	3	7.92	11.82	455-1184-ND	.72	6.00	23.99	VHR-3N
	4	11.88	15.78	455-1185-ND	.92	7.65	30.58	VHR-4N
	5	15.84	19.74	455-1186-ND	1.21	10.12	40.46	VHR-5N
	6	19.80	23.70	455-1187-ND	1.31	10.88	43.51	VHR-6N
	7	23.76	27.66	455-1181-ND	1.67	13.94	55.74	VHR-7N
	8	27.72	31.62	455-1168-ND	1.73	14.41	57.62	VHR-8N
	9	31.68	35.58	455-1169-ND	2.01	16.76	67.03	VHR-9N
	10	35.64	39.54	455-1167-ND	2.30	19.17	76.67	VHR-10N
Headers								
Top Entry (locking)								
2	2	3.96	7.86	455-1639-ND	1.19	9.88	39.51	B2P-VH(LF)(SN)
	3	7.92	11.82	455-1640-ND	1.50	12.50	50.00	B3P-VH(LF)(SN)
	4	11.88	15.78	455-1641-ND	1.92	16.03	64.11	B4P-VH(LF)(SN)
	5	15.84	19.74	455-1642-ND	2.36	19.71	78.82	B5P-VH(LF)(SN)
	6	19.80	23.70	455-1643-ND	2.70	22.48	89.91	B6P-VH(LF)(SN)
	7	23.76	27.66	455-1644-ND	3.12	26.01	104.02	B7P-VH(LF)(SN)
	8	27.72	31.62	455-1645-ND	3.73	31.05	124.18	B8P-VH(LF)(SN)
	9	31.68	35.58	455-1646-ND	4.13	34.43	137.70	B9P-VH(LF)(SN)
	10	35.64	39.54	455-1647-ND	4.51	37.55	150.19	B10P-VH(LF)(SN)
Side Entry (locking)								
3	2	3.96	7.86	455-1648-ND	1.40	11.64	46.57	B2PS-VH(LF)(SN)
	3	7.92	11.82	455-1649-ND	1.75	14.62	58.46	B3PS-VH(LF)(SN)
	4	11.88	15.78	455-1650-ND	2.33	19.46	77.82	B4PS-VH(LF)(SN)
	5	15.84	19.74	455-1651-ND	2.87	23.94	95.76	B5PS-VH(LF)(SN)
	6	19.80	23.70	455-1652-ND	3.39	28.28	113.10	B6PS-VH(LF)(SN)
	7	23.76	27.66	455-1653-ND	3.82	31.85	127.41	B7PS-VH(LF)(SN)
	8	27.72	31.62	455-1654-ND	4.55	37.95	151.81	B8PS-VH(LF)(SN)
	9	31.68	35.58	455-1655-ND	5.01	41.73	166.93	B9PS-VH(LF)(SN)
	10	35.64	39.54	455-1656-ND	5.51	45.92	183.66	B10PSVH(LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape and Reel* Qty.	Pricing	JST Part No.
Contacts-Tin Plated							
20 ~ 16 AWG	455-1319-1-ND	.56	4.63	18.53	3,500	30.76/M	SVH-41T-P1.1
22 ~ 18 AWG	455-1133-1-ND	—	4.71	18.82	4,500	31.25/M	SVH-21T-P1.1
Crimp Tools							
20 ~ 16 AWG Contacts	455-1911-ND		419.19/1		—	—	WC-930
22 ~ 18 AWG Contacts	455-1134-ND		419.19/1		—	—	WC-160

* For Tape and Reel part number, change 1-ND to 2-ND.

SIN Series

Board-In Crimp Terminals

Features:

- Compliant board retention feature insures secure mounting before and during soldering
- Wires can be machine-secured to terminals
- Strain relief minimizes wires

Specifications:

- Current Rating: Depends on applicable wires
- Temperature Range: -25°C ~ 85°C
- Applicable Wire: 30 ~ 12 AWG
- Applicable PC Board Thickness: 1.6mm (.063")

Material:

- Tin Plated

Fig. 1

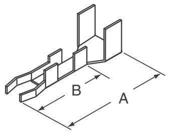

Fig. 2

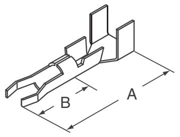

Fig. 3

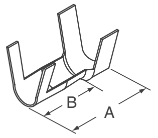

Fig.	Wire AWG#	Dim. (mm) A	B	PCB (mm) Thick-ness	Hole Dia.	Digi-Key Part No.	Pricing 10	100	500	Tape and Reel* Qty.	Pricing	JST Part No.
1	28 ~ 26	5.8	3.1	1.6	1.0	455-1452-1-ND	.20	1.63	6.51	9,000	9.77/M	SIN-002T-1.0
2	22 ~ 18	12.6	3.6	1.6	1.80	455-1453-1-ND	.40	3.37	13.46	3,000	22.35/M	SIN-21T-1.8
3	22 ~ 18	7.6	4.1	1.6	1.80	455-1454-1-ND	.30	2.50	9.99	4,500	16.59/M	SIN-21T-1.8S
	18, 16	8.3	4.3	1.6	2.4	455-1455-1-ND	.36	2.99	11.94	3,000	19.82/M	SIN-41T-2.4S
	14	8.3	4.3	1.6	2.5	455-1456-1-ND	.36	2.99	11.94	3,000	19.82/M	SIN-61T-2.6S
	12	9.2	4.5	1.6	3.55	455-1457-1-ND	.46	3.84	15.37	2,000	25.52/M	SIN-81T-3.6S

* For Tape and Reel part number, change 1-ND to 2-ND.

Miscellaneous Crimp Contacts and Crimp Tools

Contact Material	Contact Finish	AWG	Digi-Key Part No.	Cut Tape Pricing 1	100	500	Tape and Reel* Pricing	JST Part No.
VH/NV Series Crimp Contacts — RoHS Compliant								
Brass	Tin-Plated	22 ~ 18	455-1132-1-ND	—	4.24	16.94	126.54/4,500	SVH-21T-1.1
SAN Series Crimp Contacts — RoHS Compliant								
Brass	Tin-Plated	30 ~ 24	455-1142-1-ND	—	1.94	7.76	144.49/14,000	SAN-002T-0.8K
Crimp Tool 30 ~ 24 AWG SAN Contacts			455-1143-ND	862.88	—	—	—	YRS-220
Crimp Tools								
Head Adapter KR Series			455-1374-ND	306.24	—	—	—	IDH-KR-12
Pistol Grip Crimp Tool			455-1372-ND	144.18	—	—	—	IDB-12

* For Tape and Reel part number, change 1-ND to 2-ND.

AVEN

Crimping Tool for Micro Connectors

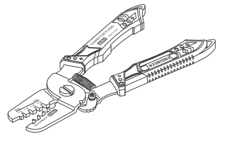

- Quality general-purpose crimp tool
- Capable of crimping 1.25 ~ 2.5mm (AWG 32-20) pitch connector pins

AV4999-ND (10140)...................................... **$59.95**

BergStak™ 0.03" (0.8 mm) Mezzanine Connector System

Features: • Extremely versatile high density mezzanine connector system. Surface mount attachment • Blade-on-beam contacts allow "peeling" and prevent "stubbing" • Face polarization prevents mis-mating • PCB polarization prevents PCB assembly errors

Plug: • Housing: G.F.LCP UL 94V-0 • Terminal: Brass **Receptacle:** • Housing: G.F.LCP UL 94V-0 • Terminal: Beryllium Copper • Mating Cycles: 100 • Voltage Rating: 100VAC • Current Rating: 6.5A • Temperature Range: -40°C ~ 85°C

Mate Height Code (mm)			
	Receptacle		
Plug	1	2	3
1	5	9	13
2	6	10	14
3	7	11	15
4	8	12	16

Fig. 1

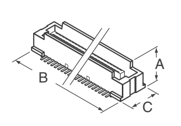

Fig. 2

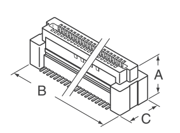

No. of Positions	Dimensions - Inch (mm)			Mate Height Code	Polari-zation	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		FCI Part No.
	A	B	C				1	25	100		Qty.	Pricing	
						Fig. 1 — Plugs							
40	0.185 (4.70)	0.858 (21.80)	0.236 (6.00)	1	Yes	609-1667-1-ND	3.88	2.40	2.11	609-1667-2-ND	900	1629.94	61083-041402LF
	0.185 (4.70)	0.858 (21.80)	0.236 (6.00)	1	No	609-1668-1-ND	3.81	2.36	2.08	609-1668-2-ND	900	1630.31	61083-041422LF
	0.224 (5.70)	0.858 (21.80)	0.236 (6.00)	2	Yes	609-1669-1-ND	3.64	2.25	1.98	609-1669-2-ND	800	1382.25	61083-042402LF
	0.224 (5.70)	0.858 (21.80)	0.236 (6.00)	2	No	609-1670-1-ND	3.65	2.27	2.06	609-1670-2-ND	800	1447.82	61083-042422LF
	0.264 (6.70)	0.858 (21.80)	0.236 (6.00)	3	Yes	609-1671-1-ND	3.94	2.43	2.14	609-1671-2-ND	700	1309.52	61083-043402LF
	0.264 (6.70)	0.858 (21.80)	0.236 (6.00)	3	No	609-1672-1-ND	4.48	2.77	2.44	609-1672-2-ND	700	1490.76	61083-043422LF
	0.303 (7.70)	0.858 (21.80)	0.236 (6.00)	4	Yes	609-1673-1-ND	4.06	2.52	2.29	609-1673-2-ND	600	1196.57	61083-044402LF
	0.303 (7.70)	0.858 (21.80)	0.236 (6.00)	4	No	609-1674-1-ND	4.03	2.50	2.27	609-1674-2-ND	600	1187.42	61083-044422LF
60	0.185 (4.70)	1.173 (29.80)	0.236 (6.00)	1	Yes	609-1675-1-ND	4.06	2.52	2.28	609-1675-2-ND	900	1761.98	61083-061402LF
	0.185 (4.70)	1.173 (29.80)	0.236 (6.00)	1	No	609-1676-1-ND	4.27	2.65	2.40	609-1676-2-ND	900	1853.59	61083-061422LF
	0.224 (5.70)	1.173 (29.80)	0.236 (6.00)	2	Yes	609-1677-1-ND	3.81	2.37	2.14	609-1677-2-ND	800	1611.68	61083-062402LF
	0.224 (5.70)	1.173 (29.80)	0.236 (6.00)	2	No	609-1678-1-ND	4.34	2.70	2.44	609-1678-2-ND	800	1674.85	61083-062422LF
	0.264 (6.70)	1.173 (29.80)	0.236 (6.00)	3	Yes	609-1679-1-ND	4.09	2.54	2.30	609-1679-2-ND	700	1450.79	61083-063402LF
	0.264 (6.70)	1.173 (29.80)	0.236 (6.00)	3	No	609-1680-1-ND	3.81	2.37	2.14	609-1680-2-ND	700	1309.12	61083-063422LF
	0.303 (7.70)	1.173 (29.80)	0.236 (6.00)	4	Yes	609-1681-1-ND	4.60	2.86	2.59	609-1681-2-ND	600	1356.97	61083-064402LF
	0.303 (7.70)	1.173 (29.80)	0.236 (6.00)	4	No	609-1682-1-ND	4.46	2.87	2.55	609-1682-2-ND	600	1361.42	61083-064422LF
80	0.185 (4.70)	1.488 (37.80)	0.236 (6.00)	1	No	609-1683-1-ND	4.78	3.08	2.74	609-1683-2-ND	900	2153.21	61083-081402LF
	0.185 (4.70)	1.488 (37.80)	0.236 (6.00)	1	No	609-1684-1-ND	4.77	2.98	2.73	609-1684-2-ND	900	2145.65	61083-081422LF
	0.224 (5.70)	1.488 (37.80)	0.236 (6.00)	2	Yes	609-1685-1-ND	4.86	3.13	2.78	609-1685-2-ND	800	1944.43	61083-082402LF
	0.224 (5.70)	1.488 (37.80)	0.236 (6.00)	2	No	609-1686-1-ND	4.21	2.71	2.41	609-1686-2-ND	800	1730.62	61083-082422LF
	0.264 (6.70)	1.488 (37.80)	0.236 (6.00)	3	Yes	609-1687-1-ND	5.16	3.21	2.91	609-1687-2-ND	700	1745.18	61083-083402LF
	0.264 (6.70)	1.488 (37.80)	0.236 (6.00)	3	No	609-1688-1-ND	4.42	2.85	2.53	609-1688-2-ND	700	1547.03	61083-083422LF
	0.303 (7.70)	1.488 (37.80)	0.236 (6.00)	4	Yes	609-1689-1-ND	5.29	3.29	2.98	609-1689-2-ND	400	1058.85	61083-084402LF
	0.303 (7.70)	1.488 (37.80)	0.236 (6.00)	4	No	609-1690-1-ND	4.35	2.80	2.49	609-1690-2-ND	400	900.57	61083-084422LF
100	0.185 (4.70)	1.803 (45.80)	0.236 (6.00)	1	Yes	609-1691-1-ND	5.08	3.23	2.96	609-1691-2-ND	650	1679.59	61083-101402LF
	0.185 (4.70)	1.803 (45.80)	0.236 (6.00)	1	No	609-1692-1-ND	4.85	3.04	2.78	609-1692-2-ND	650	1535.44	61083-101422LF
	0.224 (5.70)	1.803 (45.80)	0.236 (6.00)	2	Yes	609-1693-1-ND	5.48	3.50	3.20	609-1693-2-ND	550	1535.77	61083-102402LF
	0.224 (5.70)	1.803 (45.80)	0.236 (6.00)	2	No	609-1694-1-ND	4.98	3.17	2.90	609-1694-2-ND	550	1459.26	61083-102422LF
	0.264 (6.70)	1.803 (45.80)	0.236 (6.00)	3	Yes	609-1695-1-ND	5.27	3.42	3.13	609-1695-2-ND	450	1252.68	61083-103402LF
	0.264 (6.70)	1.803 (45.80)	0.236 (6.00)	3	No	609-1696-1-ND	5.32	3.55	3.18	609-1696-2-ND	450	1313.15	61083-103422LF
	0.303 (7.70)	1.803 (45.80)	0.236 (6.00)	4	Yes	609-1697-1-ND	5.65	3.67	3.35	609-1697-2-ND	400	1193.35	61083-104402LF
	0.303 (7.70)	1.803 (45.80)	0.236 (6.00)	4	No	609-1698-1-ND	5.13	3.27	2.99	609-1698-2-ND	400	1082.28	61083-104422LF
120	0.185 (4.70)	2.118 (53.80)	0.236 (6.00)	1	Yes	609-1699-1-ND	5.91	3.77	3.45	609-1699-2-ND	650	1956.86	61083-121402LF
	0.185 (4.70)	2.118 (53.80)	0.236 (6.00)	1	No	609-1700-1-ND	5.55	3.60	3.29	609-1700-2-ND	650	1870.05	61083-121422LF
	0.224 (5.70)	2.118 (53.80)	0.236 (6.00)	2	Yes	609-1701-1-ND	5.83	3.88	3.48	609-1701-2-ND	550	1725.34	61083-122402LF
	0.224 (5.70)	2.118 (53.80)	0.236 (6.00)	2	No	609-1702-1-ND	5.80	3.86	3.46	609-1702-2-ND	550	1717.79	61083-122422LF
	0.264 (6.70)	2.118 (53.80)	0.236 (6.00)	3	Yes	609-1703-1-ND	5.67	3.78	3.39	609-1703-2-ND	450	1399.59	61083-123402LF
	0.264 (6.70)	2.118 (53.80)	0.236 (6.00)	3	No	609-1704-1-ND	5.41	3.60	3.23	609-1704-2-ND	450	1334.18	61083-123422LF
	0.303 (7.70)	2.118 (53.80)	0.236 (6.00)	4	Yes	609-1705-1-ND	5.80	3.86	3.46	609-1705-2-ND	400	1271.67	61083-124402LF
	0.303 (7.70)	2.118 (53.80)	0.236 (6.00)	4	No	609-1706-1-ND	5.74	3.83	3.32	609-1706-2-ND	400	1259.02	61083-124422LF
140	0.185 (4.70)	2.433 (61.80)	0.236 (6.00)	1	Yes	609-1707-1-ND	6.11	4.07	3.65	609-1707-2-ND	650	2137.50	61083-141402LF
	0.185 (4.70)	2.433 (61.80)	0.236 (6.00)	1	No	609-1708-1-ND	6.41	4.27	3.83	609-1708-2-ND	650	2243.42	61083-141422LF
	0.224 (5.70)	2.433 (61.80)	0.236 (6.00)	2	Yes	609-1709-1-ND	6.32	4.21	3.77	609-1709-2-ND	550	1871.49	61083-142402LF
	0.224 (5.70)	2.433 (61.80)	0.236 (6.00)	2	No	609-1710-1-ND	9.72	6.69	6.08	609-1710-2-ND	550	3063.42	61083-142422LF
	0.264 (6.70)	2.433 (61.80)	0.236 (6.00)	3	Yes	609-1711-1-ND	9.76	6.76	5.98	609-1711-2-ND	450	2459.27	61083-143402LF
	0.264 (6.70)	2.433 (61.80)	0.236 (6.00)	3	No	609-1712-1-ND	9.76	6.76	5.98	609-1712-2-ND	450	2458.32	61083-143422LF
	0.303 (7.70)	2.433 (61.80)	0.236 (6.00)	4	Yes	609-1713-1-ND	5.11	3.26	2.98	609-1713-2-ND	400	1422.16	61083-144402LF
	0.303 (7.70)	2.433 (61.80)	0.236 (6.00)	4	No	609-1714-1-ND	8.18	5.57	4.92	609-1714-2-ND	400	1833.16	61083-144422LF
160	0.185 (4.70)	2.748 (69.80)	0.236 (6.00)	1	Yes	609-1715-1-ND	10.38	7.36	6.78	609-1715-2-ND	650	3961.74	61083-161402LF
	0.185 (4.70)	2.748 (69.80)	0.236 (6.00)	1	No	609-1716-1-ND	10.21	6.94	6.39	609-1716-2-ND	650	3758.68	61083-161422LF
	0.224 (5.70)	2.748 (69.80)	0.236 (6.00)	2	Yes	609-1717-1-ND	9.48	6.52	5.93	609-1717-2-ND	550	3069.09	61083-162402LF
	0.224 (5.70)	2.748 (69.80)	0.236 (6.00)	2	No	609-1718-1-ND	9.48	6.52	5.93	609-1718-2-ND	550	3069.09	61083-162422LF
	0.264 (6.70)	2.748 (69.80)	0.236 (6.00)	3	Yes	609-1719-1-ND	8.76	6.21	5.48	609-1719-2-ND	450	2300.38	61083-163402LF
	0.264 (6.70)	2.748 (69.80)	0.236 (6.00)	3	No	609-1720-1-ND	8.76	6.21	5.48	609-1720-2-ND	450	2300.38	61083-163422LF
	0.303 (7.70)	2.748 (69.80)	0.236 (6.00)	4	Yes	609-1721-1-ND	6.76	4.68	4.14	609-1721-2-ND	400	1514.80	61083-164402LF
	0.303 (7.70)	2.748 (69.80)	0.236 (6.00)	4	No	609-1722-1-ND	9.67	6.57	6.05	609-1722-2-ND	400	2319.13	61083-164422LF
180	0.185 (4.70)	3.063 (77.80)	0.236 (6.00)	1	Yes	609-1723-1-ND	10.44	7.40	6.81	609-1723-2-ND	650	3982.10	61083-181402LF
	0.185 (4.70)	3.063 (77.80)	0.236 (6.00)	1	No	609-1724-1-ND	10.44	7.40	6.81	609-1724-2-ND	650	3982.10	61083-181422LF
	0.264 (6.70)	3.063 (77.80)	0.236 (6.00)	3	Yes	609-1727-1-ND	9.74	6.91	6.36	609-1727-2-ND	450	2743.40	61083-183402LF
	0.264 (6.70)	3.063 (77.80)	0.236 (6.00)	3	No	609-1728-1-ND	9.74	6.91	6.36	609-1728-2-ND	450	2743.40	61083-183422LF
	0.303 (7.70)	3.063 (77.80)	0.236 (6.00)	4	Yes	609-1729-1-ND	7.30	4.97	4.47	609-1729-2-ND	400	1635.59	61083-184402LF
	0.303 (7.70)	3.063 (77.80)	0.236 (6.00)	4	No	609-1730-1-ND	10.02	7.11	6.54	609-1730-2-ND	400	2440.70	61083-184422LF
200	0.185 (4.70)	3.378 (85.80)	0.236 (6.00)	1	Yes	609-1731-1-ND	9.46	6.51	5.91	609-1731-2-ND	650	3521.20	61083-201402LF
	0.185 (4.70)	3.378 (85.80)	0.236 (6.00)	1	No	609-1732-1-ND	9.43	6.49	5.90	609-1732-2-ND	650	3511.28	61083-201422LF
	0.224 (5.70)	3.378 (85.80)	0.236 (6.00)	2	Yes	609-1733-1-ND	10.07	6.93	6.30	609-1733-2-ND	550	3174.21	61083-202402LF
	0.224 (5.70)	3.378 (85.80)	0.236 (6.00)	2	No	609-1734-1-ND	10.07	6.93	6.30	609-1734-2-ND	550	3174.21	61083-202422LF
	0.264 (6.70)	3.378 (85.80)	0.236 (6.00)	3	Yes	609-1735-1-ND	10.88	7.72	7.10	609-1735-2-ND	450	2928.23	61083-203402LF
	0.264 (6.70)	3.378 (85.80)	0.236 (6.00)	3	No	609-1736-1-ND	10.88	7.72	7.10	609-1736-2-ND	450	2928.23	61083-203422LF
	0.303 (7.70)	3.378 (85.80)	0.236 (6.00)	4	Yes	609-1737-1-ND	9.67	6.66	6.05	609-1737-2-ND	400	2257.47	61083-204402LF
	0.303 (7.70)	3.378 (85.80)	0.236 (6.00)	4	No	609-1738-1-ND	9.67	6.66	6.05	609-1738-2-ND	400	2257.47	61083-204422LF
						Fig. 2 — Receptacles							
40	0.145 (3.70)	0.858 (21.80)	0.236 (6.00)	1	Yes	609-1613-1-ND	3.94	2.45	2.22	609-1613-2-ND	800	1521.07	61082-041402LF
	0.145 (3.70)	0.858 (21.80)	0.236 (6.00)	1	No	609-1614-1-ND	4.06	2.52	2.29	609-1614-2-ND	800	1568.00	61082-041422LF
	0.303 (7.70)	0.858 (21.80)	0.268 (6.80)	2	Yes	609-1615-1-ND	4.07	2.53	2.29	609-1615-2-ND	500	1017.32	61082-042402LF
	0.303 (7.70)	0.858 (21.80)	0.268 (6.80)	2	No	609-1616-1-ND	4.33	2.68	2.36	609-1616-2-ND	500	1047.48	61082-042422LF
	0.461 (11.70)	0.858 (21.80)	0.252 (6.40)	3	Yes	609-1617-1-ND	4.25	2.62	2.31	609-1617-2-ND	300	637.02	61082-043402LF
	0.461 (11.70)	0.858 (21.80)	0.252 (6.40)	3	No	609-1618-1-ND	3.61	2.25	2.04	609-1618-2-ND	300	576.36	61082-043422LF
60	0.145 (3.70)	1.173 (29.80)	0.236 (6.00)	1	Yes	609-1619-1-ND	4.52	2.91	2.59	609-1619-2-ND	800	1806.11	61082-061402LF
	0.145 (3.70)	1.173 (29.80)	0.236 (6.00)	1	No	609-1620-1-ND	5.19	3.31	3.02	609-1620-2-ND	800	2171.23	61082-061422LF
	0.303 (7.70)	1.173 (29.80)	0.268 (6.80)	2	Yes	609-1621-1-ND	4.98	3.20	2.85	609-1621-2-ND	500	1266.47	61082-062402LF
	0.303 (7.70)	1.173 (29.80)	0.268 (6.80)	2	No	609-1622-1-ND	4.64	2.90	2.66	609-1622-2-ND	500	1180.68	61082-062422LF
	0.461 (11.70)	1.173 (29.80)	0.252 (6.40)	3	Yes	609-1623-1-ND	4.53	2.91	2.59	609-1623-2-ND	300	727.52	61082-063402LF
	0.461 (11.70)	1.173 (29.80)	0.252 (6.40)	3	No	609-1624-1-ND	4.17	2.59	2.35	609-1624-2-ND	300	665.37	61082-063422LF
80	0.145 (3.70)	1.488 (37.80)	0.236 (6.00)	1	Yes	609-1625-1-ND	5.36	3.33	3.02	609-1625-2-ND	800	2069.87	61082-081402LF
	0.145 (3.70)	1.488 (37.80)	0.236 (6.00)	1	No	609-1626-1-ND	5.72	3.81	3.41	609-1626-2-ND	800	2531.54	61082-081422LF
	0.303 (7.70)	1.488 (37.80)	0.268 (6.80)	2	Yes	609-1627-1-ND	6.19	3.72	3.24	609-1627-2-ND	500	1428.08	61082-082402LF
	0.303 (7.70)	1.488 (37.80)	0.268 (6.80)	2	No	609-1628-1-ND	5.57	3.55	3.25	609-1628-2-ND	500	1443.24	61082-082422LF
	0.461 (11.70)	1.488 (37.80)	0.252 (6.40)	3	Yes	609-1629-1-ND	5.45	3.47	3.17	609-1629-2-ND	300	861.47	61082-083402LF
	0.461 (11.70)	1.488 (37.80)	0.252 (6.40)	3	No	609-1630-1-ND	4.85	3.04	2.78	609-1630-2-ND	300	774.43	61082-083422LF
100	0.145 (3.70)	1.803 (45.80)	0.236 (6.00)	1	Yes	609-1631-1-ND	5.77	3.74	3.42	609-1631-2-ND	800	2392.32	61082-101402LF
	0.145 (3.70)	1.803 (45.80)	0.236 (6.00)	1	No	609-1632-1-ND	6.49	4.50	3.98	609-1632-2-ND	800	2857.03	61082-101422LF
	0.303 (7.70)	1.803 (45.80)	0.268 (6.80)	2	Yes	609-1633-1-ND	5.70	3.80	3.40	609-1633-2-ND	400	1249.73	61082-102402LF
	0.303 (7.70)	1.803 (45.80)	0.268 (6.80)	2	No	609-1634-1-ND	6.00	3.99	3.46	609-1634-2-ND	400	1314.31	61082-102422LF
	0.461 (11.70)	1.803 (45.80)	0.252 (6.40)	3	Yes	609-1635-1-ND	5.79	3.86	3.46	609-1635-2-ND	300	968.35	61082-103402LF
	0.461 (11.70)	1.803 (45.80)	0.252 (6.40)	3	No	609-1636-1-ND	5.54	3.69	3.31	609-1636-2-ND	300	926.68	61082-103422LF

(Continued)

FCI BergStak™ 0.03” (0.8mm) Mezzanine Connector System *(Cont.)*

No. of Positions	Dimensions - Inch (mm) A	B	C	Mate Height Code	Polari-zation	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
120	0.145 (3.70)	2.118 (53.80)	0.236 (6.00)	1	Yes	609-1637-1-ND	5.93	3.95	3.54	609-1637-2-ND	800	2552.93	61082-121402LF
	0.145 (3.70)	2.118 (53.80)	0.236 (6.00)	1	No	609-1638-1-ND	7.10	4.92	4.35	609-1638-2-ND	800	3125.65	61082-121422LF
	0.303 (7.70)	2.118 (53.80)	0.268 (6.80)	2	Yes	609-1639-1-ND	6.89	4.44	3.94	609-1639-2-ND	400	1427.61	61082-122402LF
	0.303 (7.70)	2.118 (53.80)	0.268 (6.80)	2	No	609-1640-1-ND	6.89	4.77	4.22	609-1640-2-ND	400	1586.87	61082-122422LF
	0.461 (11.70)	2.118 (53.80)	0.252 (6.40)	3	Yes	609-1641-1-ND	6.22	4.14	3.71	609-1641-2-ND	300	1040.82	61082-123402LF
	0.461 (11.70)	2.118 (53.80)	0.252 (6.40)	3	No	609-1642-1-ND	6.07	4.04	3.62	609-1642-2-ND	300	1044.09	61082-123422LF
140	0.145 (3.70)	2.433 (61.80)	0.236 (6.00)	1	Yes	609-1643-1-ND	6.57	4.38	3.92	609-1643-2-ND	700	2476.85	61082-141402LF
	0.145 (3.70)	2.433 (61.80)	0.236 (6.00)	1	No	609-1644-1-ND	7.13	4.75	4.26	609-1644-2-ND	700	2689.22	61082-141422LF
	0.303 (7.70)	2.433 (61.80)	0.268 (6.80)	2	Yes	609-1645-1-ND	7.33	4.67	4.27	609-1645-2-ND	400	1519.39	61082-142402LF
	0.303 (7.70)	2.433 (61.80)	0.268 (6.80)	2	No	609-1646-1-ND	10.43	7.39	6.80	609-1646-2-ND	400	2538.54	61082-142422LF
	0.461 (11.70)	2.433 (61.80)	0.252 (6.40)	3	Yes	609-1647-1-ND	6.60	4.57	4.05	609-1647-2-ND	300	1128.90	61082-143402LF
	0.461 (11.70)	2.433 (61.80)	0.252 (6.40)	3	No	609-1648-1-ND	10.21	6.80	6.09	609-1648-2-ND	300	1650.01	61082-143422LF
160	0.145 (3.70)	2.748 (69.80)	0.236 (6.00)	1	Yes	609-1649-1-ND	7.19	4.98	4.41	609-1649-2-ND	700	2819.75	61082-161402LF
	0.145 (3.70)	2.748 (69.80)	0.236 (6.00)	1	No	609-1650-1-ND	10.83	7.68	7.07	609-1650-2-ND	700	4447.93	61082-161422LF
	0.303 (7.70)	2.748 (69.80)	0.268 (6.80)	2	Yes	609-1651-1-ND	10.56	7.18	6.61	609-1651-2-ND	400	2464.84	61082-162402LF
	0.303 (7.70)	2.748 (69.80)	0.268 (6.80)	2	No	609-1652-1-ND	10.51	7.14	6.57	609-1652-2-ND	400	2452.24	61082-162422LF
	0.461 (11.70)	2.748 (69.80)	0.252 (6.40)	3	Yes	609-1653-1-ND	8.31	5.29	4.84	609-1653-2-ND	300	1313.96	61082-163402LF
	0.461 (11.70)	2.748 (69.80)	0.252 (6.40)	3	No	609-1654-1-ND	6.35	4.23	3.79	609-1654-2-ND	300	1083.41	61082-163422LF
180	0.145 (3.70)	3.063 (77.80)	0.236 (6.00)	1	Yes	609-1655-1-ND	9.79	6.94	6.39	609-1655-2-ND	700	4135.60	61082-181402LF
	0.145 (3.70)	3.063 (77.80)	0.236 (6.00)	1	No	609-1656-1-ND	9.79	6.94	6.39	609-1656-2-ND	700	4135.60	61082-181422LF
	0.303 (7.70)	3.063 (77.80)	0.268 (6.80)	2	No	609-1658-1-ND	11.42	8.10	7.45	609-1658-2-ND	400	2858.58	61082-182422LF
	0.461 (11.70)	3.063 (77.80)	0.252 (6.40)	3	Yes	609-1659-1-ND	10.41	7.38	6.79	609-1659-2-ND	300	1900.42	61082-183402LF
	0.461 (11.70)	3.063 (77.80)	0.252 (6.40)	3	No	609-1660-1-ND	10.41	7.38	6.79	609-1660-2-ND	300	1900.42	61082-183422LF
200	0.145 (3.70)	3.378 (85.80)	0.236 (6.00)	1	Yes	609-1661-1-ND	10.75	7.63	7.02	609-1661-2-ND	700	4541.01	61082-201402LF
	0.145 (3.70)	3.378 (85.80)	0.236 (6.00)	1	No	609-1662-1-ND	10.75	7.63	7.02	609-1662-2-ND	700	4541.01	61082-201422LF
	0.303 (7.70)	3.378 (85.80)	0.268 (6.80)	2	Yes	609-1663-1-ND	12.73	9.23	8.21	609-1663-2-ND	400	3199.68	61082-202402LF
	0.303 (7.70)	3.378 (85.80)	0.268 (6.80)	2	No	609-1664-1-ND	12.73	9.23	8.21	609-1664-2-ND	400	3199.68	61082-202422LF
	0.461 (11.70)	3.378 (85.80)	0.252 (6.40)	3	Yes	609-1665-1-ND	12.11	8.59	7.90	609-1665-2-ND	300	2211.47	61082-203402LF
	0.461 (11.70)	3.378 (85.80)	0.252 (6.40)	3	No	609-1666-1-ND	11.12	7.88	7.25	609-1666-2-ND	300	2086.27	61082-203422LF

FCI Conan® High Density, Low Profile 0.04” (1.00mm) Connector System

The Conan 1.0mm mezzanine connector system provides a mechanically secure, high density electrical interface between parallel printed circuit boards.

Features: • “Snap” engagement contacts assure secure mating with an audible “click” • Connector housings feature “lead-in” angles to assist in mating • Mating polarization prevents backward connections **Applications:** • Portable and mobile electronic equipment • Medical and Instrumentation • Office Equipment • Communications and Networking Equipment **Mechanical Performance:** • Mating Force: 125g per contact maximum • Unmating Force: 45g per contact minimum • Durability: 30 mating cycles **Electrical Performance:** • Insulation Resistance: 1,000MΩ minimum • Contact Resistance: 30mΩ maximum • Withstanding Voltage: 500VAC, RMS at 60Hz • Current Rating: 1.0A continuous (per contact, all contacts powered)

Fig. 1

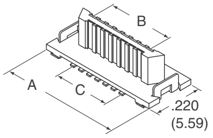

Fig. 2

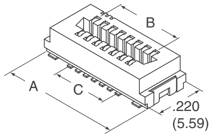

No. of Pos.	Overall Mated Height With Receptacle	Dimensions - Inch (mm) A	B	C	Digi-Key Part No	Price Each 1	25	100	FCI Part No.
					Fig. 1 — Headers				
9	4.15	0.366 (9.30)	0.157 (4.00)	0.118 (3.00)	609-1570-ND	2.05	1.21	1.05	91910-21109LF
11	4.15	0.406 (10.30)	0.197 (5.00)	0.157 (4.00)	609-1571-ND	2.10	1.21	1.07	91910-21111LF
15	4.15	0.484 (12.30)	0.276 (7.00)	0.236 (6.00)	609-1572-ND	2.46	1.46	1.29	91910-21115LF
21	4.15	0.602 (15.30)	0.394 (10.00)	0.345 (9.00)	609-1573-ND	2.72	1.64	1.43	91910-21121LF
25	4.15	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-1574-ND	2.94	1.75	1.57	91910-21125LF
31	4.15	0.799 (20.30)	0.591 (15.00)	0.551 (14.00)	609-1575-ND	3.34	2.05	1.78	91910-21131LF
41	4.15	0.996 (25.30)	0.787 (20.00)	0.748 (19.00)	609-1576-ND	3.95	2.46	2.22	91910-21141LF
51	4.15	1.193 (30.30)	0.984 (25.00)	0.945 (24.00)	609-1577-ND	4.66	2.90	2.62	91910-21151LF
69	4.15	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-1578-ND	5.26	3.30	3.01	91910-21169LF
9	7.00	0.366 (9.30)	0.157 (4.00)	0.118 (3.00)	609-1579-ND	3.07	1.81	1.56	91910-21509LF
11	7.00	0.406 (10.30)	0.197 (5.00)	0.157 (4.00)	609-1580-ND	2.17	1.25	1.11	91910-21511LF
15	7.00	0.484 (12.30)	0.276 (7.00)	0.236 (6.00)	609-1581-ND	2.46	1.46	1.29	91910-21515LF
21	7.00	0.602 (15.30)	0.394 (10.00)	0.345 (9.00)	609-1582-ND	2.97	1.79	1.56	91910-21521LF
25	7.00	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-1583-ND	2.63	1.57	1.40	91910-21525LF
31	7.00	0.799 (20.30)	0.591 (15.00)	0.551 (14.00)	609-1584-ND	3.34	2.05	1.78	91910-21531LF
41	7.00	0.996 (25.30)	0.787 (20.00)	0.748 (19.00)	609-1585-ND	3.95	2.46	2.22	91910-21541LF
51	7.00	1.193 (30.30)	0.984 (25.00)	0.945 (24.00)	609-1586-ND	4.66	2.90	2.62	91910-21551LF
69	7.00	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-1587-ND	5.45	3.30	3.01	91910-21569LF
					Fig. 2 — Receptacles				
9	—	0.366 (9.30)	0.157 (4.00)	0.118 (3.00)	609-1588-ND	2.34	1.35	1.20	91930-21109LF
11	—	0.406 (10.30)	0.197 (5.00)	0.157 (4.00)	609-1589-ND	2.43	1.44	1.28	91930-21111LF
15	—	0.484 (12.30)	0.276 (7.00)	0.236 (6.00)	609-1590-ND	2.66	1.60	1.39	91930-21115LF
21	—	0.602 (15.30)	0.394 (10.00)	0.345 (9.00)	609-1591-ND	2.99	1.78	1.59	91930-21121LF
25	—	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-1592-ND	3.30	2.03	1.76	91930-21125LF
31	—	0.799 (20.30)	0.591 (15.00)	0.551 (14.00)	609-1593-ND	3.54	2.19	1.93	91930-21131LF
41	—	0.996 (25.30)	0.787 (20.00)	0.748 (19.00)	609-1594-ND	4.30	2.67	2.42	91930-21141LF
51	—	1.193 (30.30)	0.984 (25.00)	0.945 (24.00)	609-1595-ND	5.16	3.23	2.95	91930-21151LF
69	—	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-1596-ND	5.72	3.81	3.42	91930-21169LF

FCI RIB-CAGE™ High Density, .050” x .050” (1.27mm x 1.27mm) Board-to-Board Connector System

Rib-Cage™ is a versatile family of two-piece, two-row pin-and-socket connectors for right angle and mezzanine connections between printed circuit boards (PCB) or flexible printed circuits (FPC).

Features: • Exclusive Rib-Cage™ multi-point, gold plated receptacle contacts provide optimal reliability in high vibration and shock-prone applications • High density .050” (1.27mm) x .050” (1.27mm) double row contact grid occupies only 20% of the volume of comparable 0.100” pitch systems • Polarization prevents mis-mating

Applications: • Shock resistant and vibration-prone electronic applications • Handheld test and diagnostic equipment • Electronic sub-assemblies used in conjunction with fans, motors and mechanical devices

Materials: Contact Plating: 30μ (0.76μm) gold over Nickel in Contact area; lead-free pure tin over Nickel on solder tails

Electrical Performance: 1.0A DC per contact with all contacts energized • Insulation Resistance: 50,000MΩ minimum initial • Withstanding Voltage: 800VAC, RMS at 60Hz

Fig. 1

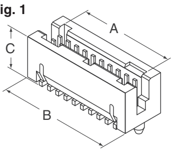

Fig. 2

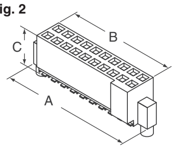

No. of Positions	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
				Fig. 1 — Headers SMT				
20	0.570 (14.48)	0.516 (13.11)	0.187 (4.75)	609-1553-ND	1.88	1.02	.89	87409-110LF
30	0.820 (20.83)	0.766 (19.46)	0.187 (4.75)	609-1554-ND	2.39	1.37	1.22	87409-115LF
40	1.070 (27.18)	1.016 (25.81)	0.187 (4.75)	609-1555-ND	2.97	1.77	1.58	87409-120LF
				Fig. 2 — Receptacles SMT				
20	0.525 (13.34)	0.622 (15.80)	0.226 (5.74)	609-1550-ND	2.18	1.29	1.11	87024-610LF
30	0.775 (19.68)	0.872 (22.15)	0.226 (5.74)	609-1551-ND	2.99	1.80	1.57	87024-615LF
40	1.025 (26.03)	1.122 (28.50)	0.226 (5.74)	609-1552-ND	3.25	1.99	1.73	87024-620LF

MEG-Array®

High Speed Mezzanine Connectors

Features: • Utilized in high-density, high-speed mezzanine applications at data rates up to 1.0Gb/s • MEG-Array connectors support stack heights in the range of 4mm ~ 14mm with options for 81 ~ 528 contact positions • FCI's patented BGA technology, ensuring reliable attach, easy placement and routing and good electrical performance • Meet Telcordida GR-1217-CORE **Applications:** • Device-to-Board: Optical Transponders and Transceivers, Add/Drop Multiplexers, Control Units, Processor Cards, Displays, Medical Diagnostic Equipment (CT scan, Eye scan etc.) • Board-to-Board: Servers, Base Stations, Memory Cards, Mobile Broadcast Equipment

Fig. 1

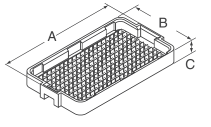

Fig. 2

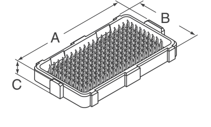

No. of Positions	Stacking Height Inch (mm)	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FCI Part No.
Fig. 1 — Plugs												
200	0.000 (0.00)	1.236 (31.40)	0.683 (17.34)	0.132 (3.35)	609-1090-1-ND	12.01	8.71	7.75	609-1090-2-ND	250	1868.41	84516-102LF
300	0.000 (0.00)	1.736 (44.10)	0.683 (17.34)	0.132 (3.35)	609-1095-1-ND	12.48	8.84	7.80	609-1095-2-ND	250	1852.50	84500-102LF
300	0.236 (6.00)	1.756 (44.60)	0.683 (17.34)	0.368 (9.35)	609-1096-1-ND	18.70	13.80	12.69	609-1096-2-ND	150	1869.59	84578-102LF
400	0.000 (0.00)	2.236 (56.80)	0.683 (17.34)	0.132 (3.35)	609-1100-1-ND	18.80	13.88	12.76	609-1100-2-ND	250	3077.66	84740-102LF
400	0.236 (6.00)	2.256 (57.30)	0.683 (17.34)	0.368 (9.35)	609-1101-1-ND	19.55	14.44	13.27	609-1101-2-ND	150	1955.46	84520-102LF
Fig. 2 — Receptacles												
200	0.157 (4.00)	1.165 (29.60)	0.647 (16.44)	0.132 (3.35)	609-1091-1-ND	13.62	9.87	8.78	609-1091-2-ND	250	2119.15	84517-101LF
200	0.236 (6.00)	1.165 (29.60)	0.647 (16.44)	0.211 (5.35)	609-1092-1-ND	15.37	11.18	10.14	609-1092-2-ND	200	1956.39	55724-101LF
200	0.315 (8.00)	1.165 (29.60)	0.647 (16.44)	0.289 (7.35)	609-1093-1-ND	13.92	10.12	9.18	609-1093-2-ND	150	1351.97	84535-101LF
200	0.315 (8.00)	1.165 (29.60)	0.647 (16.44)	0.289 (7.35)	609-1094-1-ND	21.62	16.55	15.14	609-1094-2-ND	150	2270.48	84535-201LF
300	0.157 (4.00)	1.665 (42.30)	0.645 (16.38)	0.132 (3.35)	609-1097-1-ND	19.90	14.69	13.51	609-1097-2-ND	250	3256.65	84501-101LF
300	0.217 (5.50)	1.665 (42.30)	0.645 (16.38)	0.191 (4.85)	609-1098-1-ND	22.76	17.42	15.94	609-1098-2-ND	200	3129.36	84502-101LF
300	0.315 (8.00)	1.665 (42.30)	0.647 (16.44)	0.289 (7.35)	609-1099-1-ND	22.14	16.94	15.50	609-1099-2-ND	150	2324.41	84553-101LF
400	0.157 (4.00)	2.165 (55.00)	0.647 (16.44)	0.132 (3.35)	609-1102-1-ND	19.72	14.56	13.39	609-1102-2-ND	250	3228.78	74221-101LF
400	0.236 (6.00)	2.165 (55.00)	0.647 (16.44)	0.211 (5.35)	609-1103-1-ND	23.19	17.75	16.24	609-1103-2-ND	250	3913.55	74388-101LF
400	0.315 (8.00)	2.165 (55.00)	0.647 (16.44)	0.289 (7.35)	609-1104-1-ND	22.00	16.84	15.41	609-1104-2-ND	200	3025.28	74390-101LF

GIG-Array®

High Speed Mezzanine Connectors

Features:

- Designed to meet the needs of up to 10Gb/s applications • Stack heights available from 15mm ~ 40mm provide mezzanine design flexibility
- Connector sizes of 200 and 296 signals providing 62 signal contacts per linear cm (158 signal contacts per linear inch) allow for optimization of board space and signal requirements • Very low cross-talk (VLC) design of less than 1% allows for required signal integrity performance

Applications:

- Communications: Transmission, Access, Switching, Optics and Networking • Data: Servers and Storage

Fig. 1

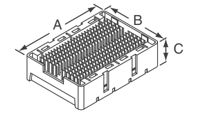

Fig. 2

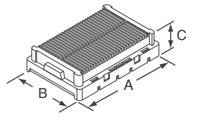

No. of Positions	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Fig. 1 — Plugs — RoHS Compliant								
200	1.50 (38.20)	1.00 (25.50)	0.46 (11.64)	609-2864-ND	37.56	28.90	26.97	10026802-001LF
296	2.12 (53.75)	1.00 (25.50)	0.46 (11.64)	609-2865-ND	52.70	40.54	37.84	10026804-001LF
200	1.50 (38.20)	1.00 (25.50)	0.97 (24.64)	609-2866-ND	30.32	23.33	21.77	10054783-001LF
296	2.12 (53.75)	1.00 (25.50)	0.97 (24.64)	609-2867-ND	49.03	38.43	35.78	10054784-001LF
200	1.50 (38.20)	1.00 (25.50)	0.50 (12.64)	609-2868-ND	29.21	23.69	22.11	10060910-001LF
296	2.12 (53.75)	1.00 (25.50)	0.50 (12.64)	609-2869-ND	39.52	30.16	28.60	10060911-001LF
296	2.12 (53.75)	1.00 (25.50)	0.58 (14.64)	609-2872-ND	50.32	39.44	36.72	55700-001LF
296	2.12 (53.75)	1.00 (25.50)	0.38 (9.64)	609-2874-ND	38.74	29.57	28.04	55720-001LF
296	2.12 (53.75)	1.00 (25.50)	0.77 (19.64)	609-2875-ND	50.88	39.88	37.13	55727-001LF
200	1.50 (38.20)	1.00 (25.50)	0.38 (9.64)	609-2877-ND	30.05	23.12	21.58	55737-001LF
200	1.50 (38.20)	1.00 (25.50)	0.58 (14.64)	609-2878-ND	38.43	29.33	27.81	55738-001LF
200	1.50 (38.20)	1.00 (25.50)	0.77 (19.64)	609-2879-ND	38.90	29.69	28.16	55739-001LF
Fig. 2 — Receptacles								
200	1.50 (38.20)	1.00 (25.50)	0.57 (14.51)	609-2870-ND◆	30.42	23.40	21.84	10060912-001LF
296	2.12 (53.75)	1.00 (25.50)	0.57 (14.51)	609-2871-ND◆	39.19	29.91	28.36	10060913-001LF
296	2.12 (53.75)	1.00 (25.50)	0.18 (4.51)	609-2873-ND◆	38.95	29.97	27.97	55701-001LF
296	2.12 (53.75)	1.00 (25.50)	0.57 (14.51)	609-2876-ND◆	39.19	29.91	28.36	55733-001LF
200	1.50 (38.20)	1.00 (25.50)	0.18 (4.51)	609-2880-ND◆	29.90	22.43	20.93	55740-001LF
200	1.50 (38.20)	1.00 (25.50)	0.57 (14.51)	609-2881-ND◆	30.42	23.40	21.84	55741-001LF
200	1.50 (38.20)	1.00 (25.50)	0.655 (16.64)	609-3125-ND ***NEW!***	29.00	21.75	20.30	10081496-001
200	1.50 (38.20)	1.00 (25.50)	0.655 (16.64)	609-3126-ND◆ ***NEW!***	29.00	21.75	20.30	10081496-001LF
296	2.12 (53.75)	1.00 (25.50)	0.655 (16.64)	609-3127-ND ***NEW!***	38.43	29.33	27.81	10081497-001
296	2.12 (53.75)	1.00 (25.50)	0.655 (16.64)	609-3128-ND◆ ***NEW!***	38.43	29.33	27.81	10081497-001LF

◆ ***RoHS Compliant***

BTFW Series Connector System 0.04" (1.00mm) Floating Board-to-Board

The BTFW Series is a floating board-to-board connector system consisting of plugs and receptacles with two rows of staggered contacts on 0.04" (1.00mm) center lines. This connector system, is designed for board-to-board applications, such as audio video (AV) and navigation systems in automobiles, that require high density and high reliability interconnects with higher pin counts and surface mount termination. The contacts have a wide floating allowance of ± 0.03" (0.80mm) in the pitch direction and ± 0.02" (0.50mm) in the width direction.

Features: • Wide floating allowance absorbs mating shift between plug and receptacle, permitting self-alignment of the mating connectors; and provides highly reliable mechanical performance • FCI's Gas Tight High Pressure (GTH) contact system provides a highly reliable gas tight (and low cost) connected interface

Materials: • **Housing:** Glass filled thermoplastic (UL 94V-0) • Color: Black • **SMT Plug:** • Contact: Phosphor bronze • Contact Plating: Tin alloy • **SMT and DIP Receptacle:** • Contact: Brass • Contact Plating: Tin alloy

Electrical and Mechanical Performance: • Contact resistance: 70mΩ maximum initial • Insulation Resistance: 100MΩ minimum • Current Rating: 1A • Durability: 20 Mating Cycles • Operating Temperature Range: -55°C ~ 85°C

Fig.	No. of Positions	Dim. - Inch (mm) A	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 700	FCI Part No.
Vertical SMT Plug									
1	10	0.394 (10.02)	609-2465-1-ND	1.34	.72	.62	609-2465-2-ND	371.50	BTFW10P-3SSTE1LF
	12	0.434 (11.02)	609-2467-1-ND	1.55	.84	.74	609-2467-2-ND	449.82	BTFW12P-3SSTE1LF
	14	0.473 (12.02)	609-2469-1-ND	1.64	.89	.78	609-2469-2-ND	378.21	BTFW14P-3SSTE1LF
	16	0.513 (13.02)	609-2471-1-ND	1.15	.64	.56	609-2471-2-ND	335.90	BTFW16P-3SSTE1LF
	18	0.552 (14.02)	609-2473-1-ND	1.58	.86	.75	609-2473-2-ND	458.28	BTFW18P-3SSTE1LF
	22	0.631 (16.02)	609-2477-1-ND	1.31	.77	.67	609-2477-2-ND	403.83	BTFW22P-3SSTE1LF
	24	0.670 (17.02)	609-2479-1-ND	1.40	.74	.62	609-2479-2-ND	364.34	BTFW24P-3SSTE1LF
	28	0.749 (19.02)	609-2483-1-ND	1.49	.89	.79	609-2483-2-ND	475.34	BTFW28P-3SSTE1LF
	30	0.788 (20.02)	609-2485-1-ND	2.35	1.39	1.23	609-2485-2-ND	746.24	BTFW30P-3SSTE1LF
Right Angle SMT Receptacle									
2	10	0.473 (12.02)	609-2466-1-ND	1.34	.73	.62	609-2466-2-ND	373.57	BTFW10R-3RSTE1LF
	12	0.513 (13.02)	609-2468-1-ND	1.37	.75	.65	609-2468-2-ND	397.23	BTFW12R-3RSTE1LF
	14	0.552 (14.02)	609-2470-1-ND	1.44	.81	.69	609-2470-2-ND	333.19	BTFW14R-3RSTE1LF
	16	0.591 (15.02)	609-2472-1-ND	1.01	.55	.48	609-2472-2-ND	291.53	BTFW16R-3RSTE1LF
	18	0.631 (16.02)	609-2474-1-ND	1.56	.85	.74	609-2474-2-ND	450.36	BTFW18R-3RSTE1LF
	20	0.670 (17.02)	609-2476-1-ND	1.32	.73	.62	609-2476-2-ND	358.05	BTFW20R-3RSTE1LF
	22	0.709 (18.02)	609-2478-1-ND	1.13	.63	.55	609-2478-2-ND	329.81	BTFW22R-3RSTE1LF
	24	0.749 (19.02)	609-2480-1-ND	1.13	.59	.50	609-2480-2-ND	293.66	BTFW24R-3RSTE1LF
	26	0.788 (20.02)	609-2482-1-ND	1.19	.68	.59	609-2482-2-ND	356.48	BTFW26R-3RSTE1LF
	28	0.828 (21.02)	609-2484-1-ND	1.25	.72	.62	609-2484-2-ND	375.38	BTFW28R-3RSTE1LF
	30	0.867 (22.02)	609-2486-1-ND	2.09	1.20	1.07	609-2486-2-ND	646.07	BTFW30R-3RSTE1LF

Fig. 1

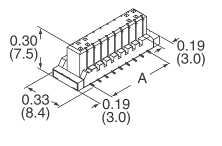

Fig. 2

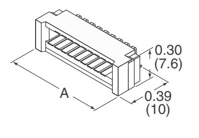

FCI PwrBlade™ Power Distribution Connector System

PwrBlade Power Distribution Connector System consists of power and signal contacts. This system is designed to economically satisfy the demanding requirements of server applications. The connectors are configured to satisfy the specific requirements of Industry SSI design standards.

RoHS COMPLIANT

Materials:

- **Housing:** Glass filled high temperature nylon • Color: Black
- **Contacts:** • Power Contacts: Beryllium-copper • Signal Pins: Phosphor-bronze • Signal Contacts: Beryllium-copper
- **Plating:** • All contacts: 0.76µm (30µ in.) Gold over 1.27µm (50µ in.) Nickel

Electrical and Mechanical Performance:

- Insulation Resistance: 20MΩ minimum
- Withstanding Voltage: 1,200V RMS
- Current Rating: 48A for single-powered contact; derated to 30 for 12-powered contact
- Contact Resistance: 0.5mΩ maximum at rated power
- Mating Force: 12 pounds typical for 11 power, 24 signal configuration

Fig. 1

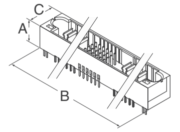

Fig. 2

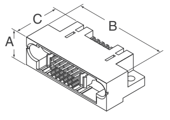

Fig. 3

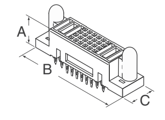

Fig. 4

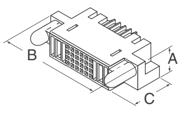

Fig.	Configuration	Termination	Dimension - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
				Header — Vertical						
1	6P, 24S, 5P	PCB	0.500 (12.70)	4.350 (110.49)	0.574 (14.58)	609-2083-ND	19.04	14.06	12.92	51860-001LF
	6P, 24S, 5P	Pressfit	0.500 (12.70)	4.350 (110.49)	0.574 (14.58)	609-2084-ND	29.54	22.60	20.68	51860-002LF
	1P, 24S, 1P	PCB	0.500 (12.70)	1.925 (48.90)	0.574 (14.58)	609-2086-ND	6.45	4.04	3.69	51952-001LF
	1P, 24S, 1P	Pressfit	0.500 (12.70)	1.925 (48.90)	0.574 (14.58)	609-2087-ND	10.93	7.75	7.13	51952-002LF
				Header — Right Angle						
2	1P, 24S, 1P	PCB	0.574 (14.58)	1.925 (48.90)	0.930 (23.62)	609-2077-ND	6.43	4.28	3.84	51415-001LF
	6p, 24S, 5P	PCB	0.574 (14.58)	4.350 (110.49)	0.930 (23.62)	609-2079-ND	8.66	6.14	5.42	51624-XX001LF
				Receptacle — Vertical						
3	1P, 24S, 1P	Pressfit	0.500 (12.70)	1.925 (48.90)	0.470 (11.94)	609-2081-ND	5.13	3.27	2.99	51666-001LF
	6P, 24S, 5P	Pressfit	0.500 (12.70)	4.350 (110.49)	0.470 (11.94)	609-2082-ND	8.55	6.06	5.35	51667-XX001LF
				Receptacle — Right Angle						
4	1P, 24S, 1P	PCB	0.470 (11.94)	1.925 (48.90)	0.820 (20.83)	609-2078-ND	5.71	3.64	3.33	51416-001LF
	6P, 24S, 5P	PCB	0.470 (11.94)	4.350 (110.49)	0.820 (20.83)	609-2080-ND	11.28	8.00	7.36	51625-XX001LF
	6P, 24S, 5P	Pressfit	0.470 (11.94)	4.350 (110.49)	0.865 (21.97)	609-2085-ND	18.21	13.45	12.36	51866-008LF

samtec SEAF and SEAM Series

RoHS COMPLIANT

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Copper Alloy • **Current Rating:** 2.7A • **Operating Temperature Range:** -55°C ~ 125°C • **Plating:** Au over 50µ (1.27µm) Ni • **Contact Resistance:** 5.5mΩ • **Working Voltage:** 240 VAC • **Mated Cycles:** 100

Fig. 1

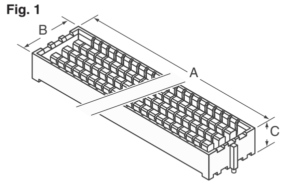

Fig. 2

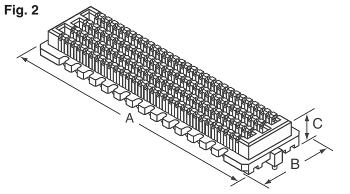

Pins per Row and No. of Rows	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Samtec Part No.
			Fig. 1 — Receptacle				
20 x 8	31.22	10.69	5.05	SAM8000-ND	19.70	15.48	SEAF-20-05.0-S-08-2-A
20 x 10	31.22	13.23	5.05	SAM8001-ND	21.32	17.38	SEAF-20-05.0-S-10-2-A
20 x 8	31.22	10.69	6.55	SAM8002-ND	20.00	16.30	SEAF-20-06.5-S-08-2-A
20 x 10	31.22	13.23	6.55	SAM8003-ND	22.72	18.52	SEAF-20-06.5-S-10-2-A

Pins per Row and No. of Rows	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Samtec Part No.
30 x 8	43.92	10.69	5.05	SAM8004-ND	23.28	18.98	SEAF-30-05.0-S-08-2-A
30 x 10	43.92	13.23	5.05	SAM8005-ND	26.46	21.57	SEAF-30-05.0-S-10-2-A
30 x 8	43.92	10.69	6.55	SAM8006-ND	24.82	20.23	SEAF-30-06.5-S-08-2-A
30 x 10	43.92	13.23	6.55	SAM8007-ND	28.20	22.99	SEAF-30-06.5-S-10-2-A
40 x 8	56.62	10.69	5.05	SAM8008-ND	28.46	23.20	SEAF-40-05.0-S-08-2-A
40 x 10	56.62	13.23	5.05	SAM8009-ND	31.53	25.88	SEAF-40-05.0-S-10-2-A
40 x 8	56.62	10.69	6.55	SAM8010-ND	29.58	24.28	SEAF-40-06.5-S-08-2-A
40 x 10	56.62	13.23	6.55	SAM8011-ND	33.62	27.59	SEAF-40-06.5-S-10-2-A
50 x 8	69.32	10.69	5.05	SAM8012-ND	31.53	25.88	SEAF-50-05.0-S-08-2-A
50 x 10	69.32	13.23	5.05	SAM8013-ND	35.82	29.40	SEAF-50-05.0-S-10-2-A
50 x 8	69.32	10.69	6.55	SAM8014-ND	33.62	27.59	SEAF-50-06.5-S-08-2-A
50 x 10	69.32	13.23	6.55	SAM8015-ND	38.20	31.35	SEAF-50-06.5-S-10-2-A
			Fig. 2 — Header				
20 x 8	30.38	12.14	4.6	SAM8016-ND	20.32	16.57	SEAM-20-02.0-S-08-2-A
20 x 10	30.38	14.68	4.6	SAM8017-ND	23.10	18.83	SEAM-20-02.0-S-10-2-A
20 x 8	30.38	12.14	6.1	SAM8018-ND	21.56	17.58	SEAM-20-03.5-S-08-2-A
20 x 10	30.38	14.68	6.1	SAM8019-ND	24.50	19.97	SEAM-20-03.5-S-10-2-A
30 x 8	43.08	12.14	4.6	SAM8020-ND	25.22	20.56	SEAM-30-02.0-S-08-2-A
30 x 10	43.08	14.68	4.6	SAM8021-ND	28.66	23.36	SEAM-30-02.0-S-10-2-A
30 x 8	43.08	12.14	6.1	SAM8022-ND	26.78	21.83	SEAM-30-03.5-S-08-2-A
30 x 10	43.08	14.68	6.1	SAM8023-ND	29.66	24.34	SEAM-30-03.5-S-10-2-A
40 x 8	55.78	12.14	4.6	SAM8024-ND	30.07	24.68	SEAM-40-02.0-S-08-2-A
40 x 10	55.78	14.68	4.6	SAM8025-ND	34.16	28.04	SEAM-40-02.0-S-10-2-A
40 x 8	55.78	12.14	6.1	SAM8026-ND	31.90	26.18	SEAM-40-03.5-S-08-2-A
40 x 10	55.78	14.68	6.1	SAM8027-ND	36.25	29.75	SEAM-40-03.5-S-10-2-A
50 x 8	68.48	12.14	4.6	SAM8028-ND	34.16	28.04	SEAM-50-02.0-S-08-2-A
50 x 10	68.48	14.68	4.6	SAM8029-ND	38.82	31.86	SEAM-50-02.0-S-10-2-A
50 x 8	68.48	12.14	6.1	SAM8030-ND	36.25	29.75	SEAM-50-03.5-S-08-2-A
50 x 10	68.48	14.68	6.1	SAM8031-ND	40.13	32.74	SEAM-50-03.5-S-10-2-A

DPAF and DPAM Series

RoHS COMPLIANT

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Copper Alloy • **Current Rating (2x3):** 2.9A @ 30°C Temperature Rise • **Operating Temperature Range:** -55°C ~ 125°C • **Plating:** Au over 50µ (1.27µm) Ni • **Contact Resistance:** 10.4mΩ • **Working Voltage:** 300 VAC • **Mated Cycles:** 100

Fig. 1

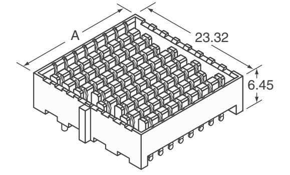

Fig. 2

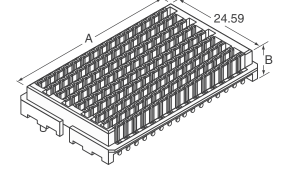

Pairs per Row and No. of Rows	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	Samtec Part No.
			Fig. 1 — Receptacles			
8 x 3	21.62	—	SAM8032-ND	12.60	9.69	DPAF-08-03.0-H-3-2-A
8 x 8	21.62	—	SAM8033-ND	20.90	16.42	DPAF-08-03.0-H-8-2-A
15 x 3	36.74	—	SAM8034-ND	18.10	14.66	DPAF-15-03.0-H-3-2-A
15 x 8	36.74	—	SAM8035-ND	29.87	24.52	DPAF-15-03.0-H-8-2-A
23 x 3	54.02	—	SAM8036-ND	24.12	19.66	DPAF-23-03.0-H-3-2-A
23 x 8	54.02	—	SAM8037-ND	40.74	33.24	DPAF-23-03.0-H-8-2-A
			Fig. 2 — Headers			
8 x 3	21.62	6.66	SAM8039-ND	13.34	10.26	DPAM-08-07.0-H-3-2-A
8 x 8	21.62	6.66	SAM8040-ND	21.06	17.17	DPAM-08-07.0-H-8-2-A
15 x 3	36.74	6.66	SAM8043-ND	19.17	15.07	DPAM-15-07.0-H-3-2-A
15 x 8	36.74	6.66	SAM8044-ND	31.63	25.96	DPAM-15-07.0-H-8-2-A
23 x 3	54.02	6.66	SAM8047-ND	25.54	20.82	DPAM-23-07.0-H-3-2-A
23 x 8	54.02	6.66	SAM8048-ND	43.13	35.19	DPAM-23-07.0-H-8-2-A

NEW! HDAM and HDAF Arrays

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** Copper Alloy • **Current Rating:** 2.3A @ 80°C Ambient • **Operating Temperature Range:** -55°C ~ 125°C • **Plating:** Gold or Tin over 50µ (1.27µm) Nickel • **Contact Resistance:** 19mΩ max • **Working Voltage:** 200 VAC • **Mated Cycles:** 100

Fig. 1

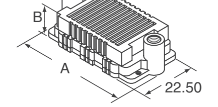

Fig. 2

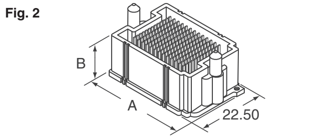

Pairs per Row and No. of Rows	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	Samtec Part No.
			Fig. 1 — HDAF Arrays			
11 x 13	39.92	10.51	SAM8650-ND	28.78	23.46	HDAF-11-08.0-S-13-1
11 x 13	39.92	20.51	SAM8656-ND	29.62	24.14	HDAF-11-18.0-S-13-1
15 x 13	47.92	10.51	SAM8652-ND	35.08	28.79	HDAF-15-08.0-S-13-1
15 x 13	47.92	20.51	SAM8658-ND	36.09	29.62	HDAF-15-18.0-S-13-1

Pairs per Row and No. of Rows	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	Samtec Part No.
23 x 13	63.92	10.51	SAM8654-ND	46.38	38.36	HDAF-23-08.0-S-13-1
23 x 13	63.92	20.51	SAM8660-ND	47.73	39.48	HDAF-23-18.0-S-13-1
			Fig. 1 — HDAF Arrays — RoHS Compliant			
11 x 13	39.92	10.51	SAM8651-ND	28.78	23.46	HDAF-11-08.0-S-13-2
11 x 13	39.92	20.51	SAM8657-ND	29.62	24.14	HDAF-11-18.0-S-13-2
15 x 13	47.92	10.51	SAM8653-ND	35.08	28.79	HDAF-15-08.0-S-13-2
15 x 13	47.92	20.51	SAM8659-ND	36.09	29.62	HDAF-15-18.0-S-13-2
23 x 13	63.92	10.51	SAM8655-ND	46.38	38.36	HDAF-23-08.0-S-13-2
23 x 13	63.92	20.51	SAM8661-ND	47.73	39.48	HDAF-23-18.0-S-13-2
			Fig. 2 — HDAM Arrays			
11 x 13	38.06	14.41	SAM8638-ND	29.34	23.92	HDAM-11-12.0-S-13-1
11 x 13	38.06	19.41	SAM8644-ND	29.98	24.44	HDAM-11-17.0-S-13-1
15 x 13	46.06	14.41	SAM8640-ND	35.76	29.35	HDAM-15-12.0-S-13-1
15 x 13	46.06	19.41	SAM8646-ND	36.54	29.99	HDAM-15-17.0-S-13-1
23 x 13	62.06	14.41	SAM8642-ND	47.30	39.13	HDAM-23-12.0-S-13-1
23 x 13	62.06	19.41	SAM8648-ND	48.32	39.97	HDAM-23-17.0-S-13-1
			Fig. 2 — HDAM Arrays — RoHS Compliant			
11 x 13	38.06	14.41	SAM8639-ND	29.34	23.92	HDAM-11-12.0-S-13-2
11 x 13	38.06	19.41	SAM8645-ND	29.98	24.44	HDAM-11-17.0-S-13-2
15 x 13	46.06	14.41	SAM8641-ND	35.76	29.35	HDAM-15-12.0-S-13-2
15 x 13	46.06	19.41	SAM8647-ND	36.54	29.99	HDAM-15-17.0-S-13-2
23 x 13	62.06	14.41	SAM8643-ND	47.30	39.13	HDAM-23-12.0-S-13-2
23 x 13	62.06	19.41	SAM8649-ND	48.32	39.97	HDAM-23-17.0-S-13-2

1.00mm Pitch Pico-Clasp™ Wire-to-Board Connectors

The Pico-Clasp connector system from Molex was developed for various connections in Flat Panel Displays (FPD). The compact, small circuit size features of this system also make it ideal for other applications such as Notebook PC's and other compact devices.

Features: • Provides space saving for mounting other components • Prevents wire hooking • Latch protection and secure mating retention • Strong mating retention and clear click feeling • Easy connector insertion and extraction

Physical Specifications: (Headers): • Color: Natural Resin • Durability: 30 cycles per minute • Contact: Phosphor Bronze Tin plated (501331); Phosphor Bronze Gold plated (501190); Brass Tin plated (501568 and 501571) • Housing: High Temperature Thermoplastic Resin • Operating Temperature Range: -40°C ~ 85°C (Receptacles): • Color: White Resin • Housing: Nylon Resin • Operating Temperature Range: -40°C ~ 85°C

Electrical Specifications: (Headers): • Current Rating: 1.00A maximum • Voltage: 50V maximum (Receptacles): • Current Rating: 1.00A maximum

Fig. 1

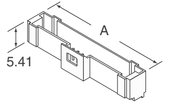

Fig. 2

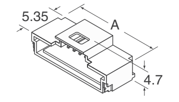

Fig. 3

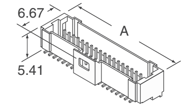

Fig. 4

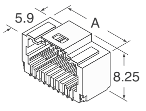

Fig. 5

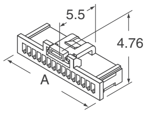

Fig. 6

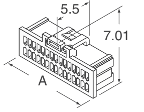

Fig. 7

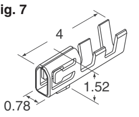

Fig.	No. of Positions	Dimension A (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Molex Part No.
				1	10	100	Qty.	Pricing	
Vertical, Single Row SMD Headers									
1	2	4.0	WM7879CT-ND	.96	.85	.57	1,100	394.00/M	501331-0207
	3	5.0	WM7880CT-ND	1.00	.89	.59	1,100	412.00/M	501331-0307
	4	6.0	WM7881CT-ND	1.04	.93	.62	1,100	430.00/M	501331-0407
	5	7.0	WM7882CT-ND	1.23	1.09	.73	1,100	507.00/M	501331-0507
	6	8.0	WM7883CT-ND	1.37	1.22	.81	1,100	566.00/M	501331-0607
	7	9.0	WM7884CT-ND	1.41	1.24	.83	1,100	579.00/M	501331-0707
	8	10.0	WM7885CT-ND	1.48	1.31	.88	1,100	610.00/M	501331-0807
	9	11.0	WM7886CT-ND	1.57	1.39	.93	1,100	646.00/M	501331-0907
	10	12.0	WM7887CT-ND	1.66	1.47	.98	1,100	684.00/M	501331-1007
	11	13.0	WM7888CT-ND	1.87	1.66	1.11	1,100	772.00/M	501331-1107
	12	14.0	WM7889CT-ND	1.97	1.74	1.16	1,100	810.00/M	501331-1207
	13	15.0	WM7890CT-ND	2.07	1.83	1.22	1,100	854.00/M	501331-1307
	14	16.0	WM7891CT-ND	2.19	1.93	1.29	1,100	900.00/M	501331-1407
	15	17.0	WM7892CT-ND	2.27	2.01	1.34	1,100	936.00/M	501331-1507
Right Angle, Single Row SMD Headers									
2	2	4.0	WM7893CT-ND	.89	.79	.53	1,700	399.00/M	501568-0207
	3	5.0	WM7894CT-ND	.92	.82	.55	1,700	413.00/M	501568-0307
	4	6.0	WM7895CT-ND	1.05	.93	.62	1,700	431.00/M	501568-0407
	5	7.0	WM7896CT-ND	1.33	1.18	.79	1,700	548.00/M	501568-0507
	6	8.0	WM7897CT-ND	1.41	1.25	.84	1,300	581.00/M	501568-0607
	7	9.0	WM7898CT-ND	1.47	1.30	.87	1,300	604.00/M	501568-0707
	8	10.0	WM7899CT-ND	1.52	1.35	.90	1,300	628.00/M	501568-0807
	9	11.0	WM7900CT-ND	1.58	1.40	.93	1,300	651.00/M	501568-0907
	10	12.0	WM7901CT-ND	1.66	1.47	.98	1,300	682.00/M	501568-1007
	11	13.0	WM7902CT-ND	1.77	1.57	1.05	1,300	731.00/M	501568-1107
	12	14.0	WM7903CT-ND	1.90	1.68	1.12	1,300	782.00/M	501568-1207
	13	15.0	WM7904CT-ND	2.02	1.78	1.19	1,300	831.00/M	501568-1307
	14	16.0	WM7905CT-ND	2.14	1.89	1.26	1,300	880.00/M	501568-1407
	15	17.0	WM7906CT-ND	2.24	1.98	1.32	1,300	924.00/M	501568-1507
Vertical, Dual Row SMD Headers									
3	20	12.3	WM7907CT-ND	3.20	2.83	1.89	1,100	1317.00/M	501190-2017
	30	17.3	WM7908CT-ND	4.31	3.81	2.54	1,100	1775.00/M	501190-3017
	40	22.3	WM7909CT-ND	5.50	4.85	3.24	1,100	2264.00/M	501190-4017
	50	27.3	WM7910CT-ND	6.68	5.90	3.94	1,100	2752.00/M	501190-5017
Right Angle, Dual Row SMD Headers									
4	20	13.0	WM7911CT-ND	3.46	3.06	2.04	800	1140.00	501571-2007
	30	18.0	WM7912CT-ND	4.37	3.86	2.58	800	1440.80	501571-3007
	40	23.0	WM7913CT-ND	7.87	6.95	4.63	800	2592.80	501571-4007
	50	28.0	WM7914CT-ND	6.25	5.52	3.68	800	2057.60	501571-5007
Single Row Receptacle Housing									
5	2	3.7	WM7915-ND	.47	.42	.28	—	—	501330-0200
	3	4.7	WM7916-ND	.47	.42	.28	—	—	501330-0300
	4	5.7	WM7917-ND	.47	.42	.28	—	—	501330-0400
	5	6.7	WM7918-ND	.47	.42	.28	—	—	501330-0500
	6	7.7	WM7919-ND	.51	.46	.31	—	—	501330-0600
	7	8.7	WM7920-ND	.54	.48	.32	—	—	501330-0700
	8	9.7	WM7921-ND	.46	.41	.28	—	—	501330-0800
	9	10.7	WM7922-ND	.52	.46	.31	—	—	501330-0900
	10	11.7	WM7923-ND	.52	.46	.31	—	—	501330-1000
	11	12.7	WM7924-ND	.61	.55	.37	—	—	501330-1100
	12	13.7	WM7925-ND	.66	.59	.40	—	—	501330-1200
	13	14.7	WM7926-ND	.72	.64	.43	—	—	501330-1300
	14	15.7	WM7927-ND	.64	.57	.38	—	—	501330-1400
	15	16.7	WM7928-ND	.65	.58	.39	—	—	501330-1500
Dual Row Receptacle Housing									
6	20	11.7	WM7929-ND	.66	.59	.39	—	—	501189-2010
	30	16.7	WM7930-ND	.74	.66	.44	—	—	501189-3010
	40	21.7	WM7931-ND	.83	.74	.50	—	—	501189-4010
Crimp Contacts and Tools									
7	Socket Crimp, 28-32AWG		WM7933-ND	.11	.10	.07	—	—	501334-0100
	Terminal Crimp, 28-32AWG		WM7934-ND	.14	.13	.09	—	—	501193-0100
—	Crimp Hand Tool 28-32AWG		WM9018-ND ***NEW!***	321.98/1			—	—	63819-1500
	Extraction Hand Tool		WM7936-ND	198.43/1			—	—	63813-1700

† For Tape and Reel part number, change CT-ND to TR-ND.

PicoBlade 1.25mm Connectors

1.25mm Connectors: Physical Specifications: • Housing: PBTP, UL94V-0 • Temperature: -40°C ~ 85°C • UL File No.: E29179 CSA File-No.: LR19980

1.25mm Crimp Terminal: Electrical Specifications: • Voltage: 125V • Current: 1.0A (0.8A for 32AWG) • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250VAC/1 minute • Insulation Resistance: 100MΩ minimum **Physical Specifications:** • Contact: Phosphor Bronze • Plating: Tin • Wire Range: 26 ~ 32AWG • Insulation Range: 1.00mm diameter maximum • Strip Length: 1.40 ~ 1.90mm

Fig. 1 – 1.25mm Receptacle Housing

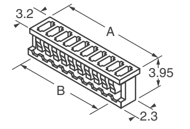

Fig. 2 – 1.25mm Straight Header

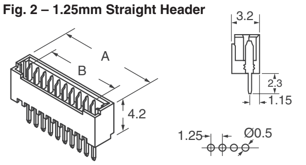

Fig. 3 – 1.25mm Right Angle Header

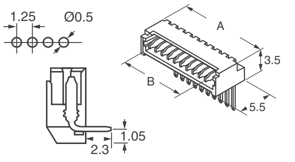

Fig. 4 – 1.25mm SMT Straight Header

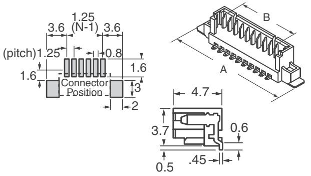

Fig. 5 – 1.25mm SMT Right Angle Header

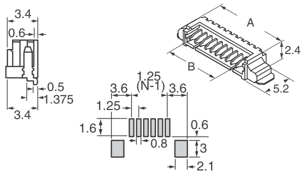

Fig. 6 – Crimp Terminal (Female)

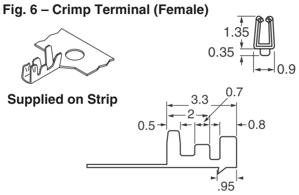

Supplied on Strip

Fig.	Cir-cuits	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	500	Molex Part No.
Receptacle Housing — RoHS Compliant									
1	2	4.25	1.25	WM1720-ND	.29	.25	.18	.14	51021-0200
	3	5.50	2.50	WM1721-ND	.31	.26	.19	.15	51021-0300
	4	6.75	3.75	WM1722-ND	.42	.37	.25	.20	51021-0400
	5	8.00	5.00	WM1723-ND	.48	.43	.29	.23	51021-0500
	6	9.25	6.25	WM1724-ND	.53	.44	.32	.26	51021-0600
	7	10.50	7.50	WM1725-ND	.59	.49	.35	.28	51021-0700
	8	11.75	8.75	WM1726-ND	.64	.57	.38	.31	51021-0800
	9	13.00	10.00	WM1727-ND	.69	.62	.41	.33	51021-0900
	10	14.25	11.25	WM1728-ND	.75	.62	.44	.36	51021-1000
	11	15.50	12.50	WM1729-ND	.80	.67	.48	.38	51021-1100
	12	16.75	13.75	WM1730-ND	.86	.71	.51	.41	51021-1200
	13	18.00	15.00	WM17000-ND	.91	.81	.54	.43	51021-1300
	14	19.25	16.25	WM17001-ND	.96	.85	.57	.46	51021-1400
	15	20.50	17.50	WM17002-ND	1.01	.90	.60	.48	51021-1500
Straight Headers									
2	2	4.25	1.25	WM1731-ND◆	.49	.41	.29	.23	53047-0210
	3	5.50	2.50	WM1732-ND◆	.60	.53	.36	.29	53047-0310
	4	6.75	3.75	WM1733-ND◆	.71	.63	.42	.34	53047-0410
	5	8.00	5.00	WM1734-ND◆	.82	.68	.49	.39	53047-0510
	6	9.25	6.25	WM1735-ND◆	.94	.78	.56	.45	53047-0610
	7	10.50	7.50	WM1736-ND◆	1.06	.88	.63	.51	53047-0710
	8	11.75	8.75	WM1737-ND◆	1.18	.98	.70	.56	53047-0810
	9	13.00	10.00	WM1738-ND◆	1.30	1.15	.77	.62	53047-0910
	10	14.25	11.25	WM1739-ND◆	1.42	1.26	.84	.67	53047-1010
	11	15.50	12.50	WM1740-ND	1.55	1.37	.92	.73	53047-1110
	12	16.75	13.75	WM1741-ND◆	1.65	1.46	.98	.78	53047-1210
	13	18.00	15.00	WM17003-ND◆	1.77	1.57	1.05	.84	53047-1310
	14	19.25	16.25	WM17004-ND◆	1.89	1.67	1.11	.89	53047-1410
	15	20.50	17.50	WM17005-ND◆	2.01	1.77	1.19	.95	53047-1510
Right Angle Headers									
3	2	4.25	1.25	WM1742-ND◆	.56	.50	.34	.27	53048-0210
	3	5.50	2.50	WM1743-ND◆	.68	.61	.41	.33	53048-0310
	4	6.75	3.75	WM1744-ND◆	.80	.71	.48	.38	53048-0410
	5	8.00	5.00	WM1745-ND◆	.92	.76	.55	.44	53048-0510
	6	9.25	6.25	WM1746-ND◆	1.04	.92	.62	.49	53048-0610
	7	10.50	7.50	WM1747-ND◆	1.16	1.03	.69	.55	53048-0710
	8	11.75	8.75	WM1748-ND◆	1.28	1.13	.76	.61	53048-0810
	9	13.00	10.00	WM1749-ND◆	1.40	1.24	.83	.66	53048-0910
	10	14.25	11.25	WM1750-ND◆	1.52	1.35	.90	.72	53048-1010
	11	15.50	12.50	WM1751-ND	1.65	1.46	.97	.78	53048-1110
	12	16.75	13.75	WM1752-ND◆	1.77	1.56	1.04	.84	53048-1210
	13	18.00	15.00	WM17006-ND◆	1.89	1.67	1.11	.89	53048-1310
	14	19.25	16.25	WM17007-ND◆	2.01	1.78	1.19	.95	53048-1410
	15	20.50	17.50	WM17008-ND◆	2.15	1.90	1.27	1.02	53048-1510
SMT Straight Headers — RoHS Compliant									
4	2	7.65	1.25	WM7606CT-ND WM7606TR-ND	1.25	1.10 487.00/1,000	.74	.59	53398-0271
	3	8.90	2.50	WM7607CT-ND WM7607TR-ND	1.51	1.34 589.00/1,000	.89	.71	53398-0371
	4	10.15	3.75	WM7608CT-ND WM7608TR-ND	1.67	1.48 653.00/1,000	.99	.79	53398-0471
	5	11.40	5.00	WM7609CT-ND WM7609TR-ND	1.86	1.64 725.00/1,000	1.10	.88	53398-0571
	6	12.65	6.25	WM7610CT-ND WM7610TR-ND	2.00	1.77 781.00/1,000	1.18	.95	53398-0671
	7	13.90	7.50	WM7611CT-ND WM7611TR-ND	2.16	1.91 846.00/1,000	1.28	1.02	53398-0771

◆ ***RoHS Compliant***

(Continued)

PicoBlade 1.25mm Connectors *(Cont.)*

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	500	Molex Part No.
4	8	15.15	8.75	WM7612CT-ND WM7612TR-ND	2.30	2.03 897.00/1,000	1.36	1.09	53398-0871
	9	16.40	10.00	WM7613CT-ND WM7613TR-ND	2.49	2.20 971.00/1,000	1.47	1.17	53398-0971
	10	17.65	11.25	WM7614CT-ND WM7614TR-ND	2.64	2.33 1030.00/1,000	1.56	1.25	53398-1071
	11	18.90	12.50	WM7615CT-ND WM7615TR-ND	2.80	2.48 1094.00/1,000	1.65	1.32	53398-1171
	12	20.15	13.75	WM7616CT-ND WM7616TR-ND	2.96	2.62 1158.00/1,000	1.75	1.40	53398-1271
	13	21.40	15.00	WM7617CT-ND WM7617TR-ND	3.17	2.81 1240.00/1,000	1.87	1.50	53398-1371
	14	22.65	16.25	WM7618CT-ND WM7618TR-ND	3.30	2.92 1289.00/1,000	1.95	1.56	53398-1471
	15	23.90	17.50	WM7619CT-ND WM7619TR-ND	3.38	2.99 1319.00/1,000	1.99	1.59	53398-1571
SMT Right Angle Headers — RoHS Compliant									
5	2	7.65	1.25	WM7620CT-ND WM7620TR-ND	1.31	1.16 512.00/1,000	.78	.62	53261-0271
	3	8.90	2.50	WM7621CT-ND WM7621TR-ND	1.59	1.41 623.00/1,000	.94	.76	53261-0371
	4	10.15	3.75	WM7622CT-ND WM7622TR-ND	1.74	1.54 682.00/1,000	1.03	.83	53261-0471
	5	11.40	5.00	WM7623CT-ND WM7623TR-ND	1.92	1.70 751.00/1,000	1.14	.91	53261-0571
	6	12.65	6.25	WM7624CT-ND WM7624TR-ND	2.07	1.83 807.00/1,000	1.22	.98	53261-0671
	7	13.90	7.50	WM7625CT-ND WM7625TR-ND	2.22	1.97 869.00/1,000	1.31	1.05	53261-0771
	8	15.15	8.75	WM7626CT-ND WM7626TR-ND	2.36	2.09 922.00/1,000	1.39	1.12	53261-0871
	9	16.40	10.00	WM7627CT-ND WM7627TR-ND	2.55	2.26 997.00/1,000	1.51	1.21	53261-0971
	10	17.65	11.25	WM7628CT-ND WM7628TR-ND	2.70	2.39 1056.00/1,000	1.59	1.28	53261-1071
	11	18.90	12.50	WM7629CT-ND WM7629TR-ND	2.87	2.53 1120.00/1,000	1.69	1.35	53261-1171
	12	20.15	13.75	WM7630CT-ND WM7630TR-ND	3.03	2.68 1184.00/1,000	1.79	1.43	53261-1271
	14	22.65	16.25	WM7631CT-ND WM7631TR-ND	3.36	2.97 1314.00/1,000	1.98	1.59	53261-1471
	15	23.90	17.50	WM7632CT-ND WM7632TR-ND	3.51	3.10 1371.00/1,000	2.07	1.66	53261-1571
6	Crimp Terminal, 28-32 AWG			WM1775-ND WM1775TR-ND	—	.06 575.00/25,000	.05	.04	50058-8000
	Crimp Terminal, 26-28 AWG			WM1142CT-ND WM1142TR-ND	—	.07 575.00/25,000	.05	.04	50079-8000
	Crimp Term,. 26-28 AWG			WM2023-ND	—	.20	.17	.13	50079-8100
Tools (Molex)									
28~32AWG Prototype Crimp				WM9931-ND		214.65/1			63811-0200
26~28AWG Prototype Crimp				WM9978-ND		214.65/1			63811-0300
Production Crimp				WM9932-ND		641.09/1			63811-0000
Contact Extraction				WM9933-ND		161.12/1			57072-6000

◆ ***RoHS Compliant***

Panel Mate 1.25mm Connectors Ultra Low Profile

Fig. 1

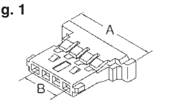

Fig. 2

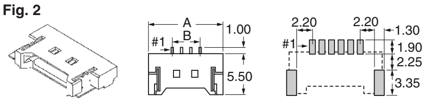

Physical Specifications: • Housing: PBTP, UL 94V-0 • Temperature: -40°C ~ 85°C • Contact: Phosphor Bronze • Plating: Gold (Tin on SMT tails) • Solder Tabs: Phosphor Bronze, Tin/Lead plating
Electrical Specifications: • Voltage: 125V • Current: 1.0A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250VAC • Insulation Resistance: 100MΩ min.

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Receptacle Housing - Ultra Low Profile								
1	2	5.72	1.25	WM5400-ND◆	.49	.44	.29	51146-0200
	3	6.97	2.50	WM5401-ND	.61	.54	.36	51146-0300
	4	8.22	3.75	WM5402-ND◆	.72	.64	.43	51146-0400
	5	9.47	5.00	WM5403-ND◆	.68	.61	.41	51146-0500
	6	10.72	6.25	WM5404-ND◆	.92	.81	.54	51146-0600
	7	11.97	7.50	WM5405-ND◆	1.06	.94	.63	51146-0700
	9	14.47	10.00	WM5406-ND◆	1.27	1.12	.75	51146-0900
	14	20.72	16.25	WM5407-ND◆	1.86	1.65	1.10	51146-1400
Right Angle, SMT — RoHS Compliant								
2	2	7.65	1.25	WM7600CT-ND† WM7600TR-ND§	1.64	1.45 960.00/1,500	.97	53780-0270
	3	8.90	2.50	WM7601CT-ND† WM7601TR-ND§	1.90	1.68 1114.50/1,500	1.12	53780-0370
	4	10.15	3.75	WM7660CT-ND† WM7660TR-ND§	2.30	2.03 1345.50/1,500	1.36	53780-0470
	5	11.40	5.00	WM7602CT-ND† WM7602TR-ND§	2.51	2.22 1471.50/1,500	1.48	53780-0570
	6	12.65	6.25	WM7603CT-ND† WM7603TR-ND§	2.66	2.35 1557.00/1,500	1.57	53780-0670
2	7	13.90	7.50	WM7604CT-ND† WM7604TR-ND§	2.94	2.60 1722.00/1,500	1.73	53780-0770
	9	16.40	10.00	WM7605CT-ND† WM7605TR-ND§	3.21	2.84 1882.50/1,500	1.90	53780-0970
	14	22.65	16.25	WM7661CT-ND† WM7661TR-ND§	3.97	3.51 2325.00/1,500	2.34	53780-1470
Crimp Terminal 28~30 AWG.....				WM5506-ND	.54	.48	.32	50641-8141
Crimp Terminal 28~30 AWG.....				WM5506TR-ND§		1475.00/25,000		50641-8041
Hand Crimper				WM9963-ND		673.41/1		57352-5000

◆ ***RoHS Compliant*** † Cut Tape § Tape and Reel

1.5mm PICO SPOX™ Connectors

Features: • 2-15 circuits • Standard with center polarizing ramp • Lead in chamfer facilitates mating
Electrical: • Voltage: 250V • Current: 2.0A • Contact Resistance: 40mΩ maximum • Dielectric Withstanding Voltage: 500V • Insulation Resistance: 1000MΩ minimum
Physical: • Operating Temperature: -25°C ~ 85°C • Housing: Glass filled 6/6 nylon, UL 94V-0 • Headers: Color beige glass filled 4/6 nylon, UL 94V-0 • Contact: Brass Alloy • Plating: Tin over 1.27µm minimum Nickel

Fig. 1

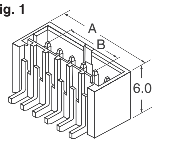

Fig. 2

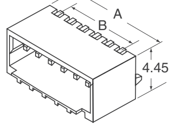

Fig. 3

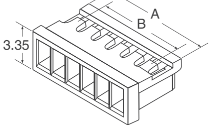

Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Molex Part No.
Fig. 1 — Vertical Headers									
5	8.80	6.00	WM18584CT-ND	1.31	1.16	.77	WM18584TR-ND	537.00	87437-0543
6	10.30	7.50	WM2038CT-ND	1.43	1.26	.84	WM2038TR-ND	587.67	87437-0633
7	11.80	9.00	WM2039CT-ND	1.56	1.38	.92	WM2039TR-ND	641.73	87437-0733
8	13.30	10.50	WM2040CT-ND	1.71	1.51	1.01	WM2040TR-ND	704.71	87437-0833
9	14.80	12.00	WM2041CT-ND	1.83	1.62	1.08	WM2041TR-ND	752.57	87437-0933
11	17.80	15.00	WM2043CT-ND	2.07	1.83	1.22	WM2043TR-ND	850.89	87437-1133
12	19.30	16.50	WM2044CT-ND	2.19	1.94	1.29	—	—	87437-1233
13	20.80	18.00	WM2045CT-ND	2.33	2.06	1.38	WM2045TR-ND	961.08	87437-1333
14	22.30	19.50	WM2046CT-ND	2.43	2.15	1.43	WM2046TR-ND	999.85	87437-1433
15	23.80	21.00	WM2047CT-ND	2.55	2.26	1.51	—	—	87437-1533
Fig. 1 — Vertical Headers — RoHS Compliant									
2	4.30	1.50	WM7662CT-ND	.89	.79	.53	WM7662TR-ND	365.00	87437-0243
3	5.80	3.00	WM7663CT-ND	1.02	.91	.61	WM7623TR-ND	751.00	87437-0343
4	7.30	4.50	WM7664CT-ND	1.17	1.03	.69	WM7664TR-ND	480.81	87437-0443
6	10.30	7.50	WM7665CT-ND	1.45	1.28	.86	WM7665TR-ND	596.80	87437-0643
7	11.80	9.00	WM7666CT-ND	1.59	1.41	.94	WM7666TR-ND	654.00	87437-0743
8	13.30	10.50	WM7667CT-ND	1.74	1.54	1.03	WM7667TR-ND	716.00	87437-0843
9	14.80	12.00	WM7668CT-ND	1.86	1.64	1.10	WM7668TR-ND	764.00	87437-0943
10	16.30	13.50	WM7669CT-ND	1.98	1.75	1.17	WM7669TR-ND	816.00	87437-1043
11	17.80	15.00	WM7670CT-ND	2.10	1.86	1.24	WM7670TR-ND	864.00	87437-1143
12	19.30	16.50	WM7671CT-ND	2.22	1.97	1.31	WM7671TR-ND	916.00	87437-1243
13	20.80	18.00	WM7672CT-ND	2.34	2.07	1.38	WM7672TR-ND	964.00	87437-1343
14	22.30	19.50	WM7673CT-ND	2.47	2.18	1.46	WM7673TR-ND	1016.00	87437-1443
15	23.80	21.00	WM7674CT-ND	2.59	2.29	1.53	WM7674TR-ND	1067.00	87437-1543
Fig. 2 — Right Angle Headers — RoHS Compliant									
2	4.30	1.50	WM7646CT-ND	.86	.76	.51	WM7646TR-ND	354.00	87438-0243
3	5.80	3.00	WM7647CT-ND	1.08	.96	.64	WM7647TR-ND	446.00	87438-0343
4	7.30	4.50	WM7648CT-ND	1.21	1.08	.72	WM7648TR-ND	500.00	87438-0443
5	8.80	6.00	WM7649CT-ND	1.24	1.10	.73	WM7649TR-ND	510.00	87438-0543
6	10.30	7.50	WM7650CT-ND	1.42	1.26	.84	WM7650TR-ND	586.00	87438-0643
7	11.80	9.00	WM7651CT-ND	1.68	1.49	.99	WM7651TR-ND	692.00	87438-0743
8	13.30	10.50	WM7652CT-ND	1.80	1.60	1.07	WM7652TR-ND	743.00	87438-0843
9	14.80	12.00	WM7653CT-ND	1.84	1.63	1.09	WM7653TR-ND	759.00	87438-0943
10	16.30	13.50	WM7654CT-ND	2.00	1.77	1.18	WM7654TR-ND	824.00	87438-1043
11	17.80	15.00	WM7655CT-ND	2.16	1.91	1.27	WM7655TR-ND	889.00	87438-1143
12	19.30	16.50	WM7656CT-ND	2.32	2.05	1.37	WM7656TR-ND	953.00	87438-1243
13	20.80	18.00	WM7657CT-ND	2.47	2.19	1.46	WM7657TR-ND	1018.00	87438-1343
14	22.30	19.50	WM7658CT-ND	2.63	2.33	1.55	WM7658TR-ND	1083.00	87438-1443
15	23.80	21.00	WM7659CT-ND	2.79	2.46	1.64	WM7659TR-ND	1148.00	87438-1543

Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Fig. 3 — Housing							
2	4.10	1.50	WM2086-ND◆	.23	.21	.14	87439-0200
3	5.60	3.00	WM2087-ND◆	.26	.24	.16	87439-0300
4	7.10	4.50	WM2088-ND◆	.27	.24	.16	87439-0400
5	8.60	6.00	WM2089-ND◆	.31	.28	.19	87439-0500
6	10.10	7.50	WM2090-ND◆	.34	.30	.20	87439-0600
7	11.60	9.00	WM2091-ND◆	.38	.34	.23	87439-0700
8	13.10	10.50	WM2092-ND◆	.40	.35	.24	87439-0800
9	14.60	12.00	WM2093-ND◆	.41	.37	.25	87439-0900
10	16.10	13.50	WM2094-ND◆	.42	.37	.25	87439-1000
11	17.60	15.00	WM2095-ND◆	.43	.39	.26	87439-1100
12	19.10	16.50	WM2096-ND◆	.46	.41	.28	87439-1200
13	20.60	18.00	WM2097-ND	.47	.42	.28	87439-1300
14	22.10	19.50	WM2098-ND◆	.48	.43	.29	87439-1400
15	23.60	21.00	WM2099-ND◆	.50	.45	.30	87439-1500

Description	Digi-Key Part No.	Pricing 10	100	Molex Part No.
Crimp Terminal 24-30 AWG	WM1112-ND◆	.50	4.01	87421-0000-C
Hand Crimp Tool	WM9013-ND	243.27/1		63811-6400
Manual Wire Stripper	WM9969-ND	84.59/1		63817-0000
Blade Replacement Straight	WM9970-ND	37.22/1		63817-0070
Blade Replacement V	WM9971-ND	31.72/1		63817-0071

◆ ***RoHS Compliant***

molex® 2.0mm Pitch Mi II™ Wire-to-Board Connectors

Specifications:
• Color: Natural Resin • Operating Temperature: -40°C ~ 105°C

Receptacle Housing:
Physical: • Contact: Polyester Resin • Flammability: 94V-0 Electrical: • CSA File No.: LR19980 • UL File No.:E29179

SMD Headers:
Physical: • Contact: Phosphor Bronze Tin Plated • Material: High Temperature Thermoplastic Resin Electrical: • Current: 1.50A maximum • Voltage: 125V maximum

Vertical and Right Angle Headers:
Physical: • Contact: Brass Tin Plated • Material: Nylon Resin • Flammability: 94V-0 Electrical: • Current: 2A maximum • Voltage: 125V maximum • CSA File No.: LR19980 • UL File No.: E29179

Fig. 1

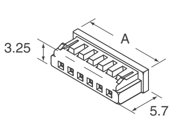

Fig. 2

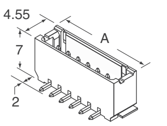

Fig. 3

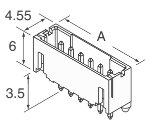

Fig. 4

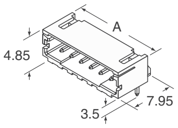

Fig.	Circuits	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
			Receptacle Housing				
1	2	6.9	WM8287-ND	.23	.20	.14	51090-0200
	3	8.9	WM8288-ND	.26	.24	.16	51090-0300
	4	10.9	WM8289-ND	.30	.27	.18	51090-0400
	5	12.9	WM8290-ND	.34	.30	.20	51090-0500
	6	14.9	WM8291-ND	.37	.33	.22	51090-0600
	7	16.9	WM8292-ND	.41	.36	.24	51090-0700
	8	18.9	WM8293-ND	.44	.39	.26	51090-0800
	9	20.9	WM8294-ND	.48	.42	.28	51090-0900
	10	22.9	WM8295-ND	.52	.46	.31	51090-1000
	11	24.9	WM8296-ND	.55	.49	.33	51090-1100
	12	26.9	WM8297-ND	.59	.53	.35	51090-1200
	13	28.9	WM8298-ND	.63	.56	.37	51090-1300
	14	30.9	WM8299-ND	.67	.59	.40	51090-1400
	15	32.9	WM8300-ND	.72	.64	.43	51090-1500
			SMD Headers				
2	2	8.1	WM8301CT-ND* WM8301TR-ND§	.72	.64 253.80/900	.43	55460-0272
	3	10.1	WM8302CT-ND* WM8302TR-ND§	1.05	.93 369.00/900	.62	55460-0372
	4	12.1	WM8303CT-ND* WM8303TR-ND§	1.18	1.05 414.90/900	.70	55460-0472
	5	14.1	WM8304CT-ND* WM8304TR-ND§	1.38	1.22 484.20/900	.82	55460-0572
	6	16.1	WM8305CT-ND* WM8305TR-ND§	1.57	1.39 553.50/900	.93	55460-0672
	7	18.1	WM8306CT-ND* WM8306TR-ND§	1.84	1.63 645.30/900	1.09	55460-0772
	8	20.1	WM8307CT-ND* WM8307TR-ND§	1.97	1.74 692.10/900	1.16	55460-0872
	10	24.1	WM8308CT-ND* WM8308TR-ND§	2.49	2.20 876.60/900	1.47	55460-1072
	12	28.1	WM8309CT-ND* WM8309TR-ND§	2.95	2.61 1037.70/900	1.74	55460-1272
	13	30.1	WM8310CT-ND* WM8310TR-ND§	3.07	2.71 1079.10/900	1.81	55460-1372
	15	34.1	WM8311CT-ND* WM8311TR-ND§	3.61	3.19 1270.80/900	2.13	55460-1572

Fig.	Circuits	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
			Vertical Headers				
3	2	7.3	WM8312-ND	.48	.43	.29	53324-0260
	3	9.3	WM8313-ND	.55	.49	.33	53324-0360
	4	11.3	WM8314-ND	.69	.61	.41	53324-0460
	5	13.3	WM8315-ND	.83	.73	.49	53324-0560
	6	15.3	WM8316-ND	.96	.86	.57	53324-0660
	7	17.3	WM8317-ND	1.10	.98	.65	53324-0760
	8	19.3	WM8318-ND	1.24	1.10	.73	53324-0860
	9	21.3	WM8319-ND	1.31	1.16	.77	53324-0960
	10	23.3	WM8320-ND	1.38	1.22	.82	53324-1060
	11	25.3	WM8321-ND	1.44	1.28	.85	53324-1160
	12	27.3	WM8322-ND	1.52	1.34	.90	53324-1260
	13	29.3	WM8323-ND	1.58	1.40	.93	53324-1360
	14	31.3	WM8324-ND	1.65	1.46	.98	53324-1460
	15	33.3	WM8325-ND	1.72	1.52	1.02	53324-1560
			Right Angle Headers				
4	2	7.3	WM8326-ND	.66	.59	.39	53325-0260
	3	9.3	WM8327-ND	.80	.71	.48	53325-0360
	4	11.3	WM8328-ND	.94	.83	.56	53325-0460
	5	13.3	WM8329-ND	1.07	.95	.63	53325-0560
	6	15.3	WM8330-ND	1.21	1.07	.71	53325-0660
	7	17.3	WM8331-ND	1.34	1.19	.80	53325-0760
	8	19.3	WM8332-ND	1.48	1.31	.88	53325-0860
	9	21.3	WM8333-ND	1.61	1.43	.95	53325-0960
	10	23.3	WM8334-ND	1.75	1.55	1.04	53325-1060
	11	25.3	WM8335-ND	1.88	1.67	1.11	53325-1160
	12	27.3	WM8336-ND	2.02	1.79	1.19	53325-1260
	13	29.3	WM8337-ND	2.15	1.90	1.27	53325-1360
	14	31.3	WM8338-ND	2.29	2.02	1.35	53325-1460
	15	33.3	WM8339-ND	2.43	2.15	1.43	53325-1560
			Crimp Contacts and Tools				
Extraction Hand Tool			WM8340-ND		101.51/1		57105-6000
Crimp Terminal, 24-30 AWG Contact: Phosphor Bronze Plating: Tin			WM6050-ND	—	.27	.22	50212-8100
Crimp Tool, 24-30 AWG			WM9973-ND	214.65	—	—	63811-1200

* Cut Tape § Tape and Reel

2.0mm Sherlock™ Connectors

Features: • Positive locking provides secure mating retention • Four-wall shroud with guide plate protects pins and facilitates mating • Compact low-profile design for space savings • Polarizing end walls prevent mismating

Electrical: • Voltage: 125V • Current: 2.0A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 500V • Insulation Resistance: 1000MΩ minimum

Physical: • Housing: Polyamide, UL 94V-0 • Housing Contact: Brass • Plating: Tin • Operating Temperature: -40°C ~ 105°C • UL File No.: E29179 • CSA File No.: LR19980

Fig. 1

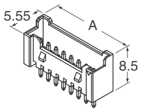

Fig. 2

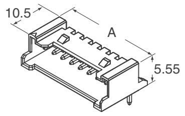

Fig. 3

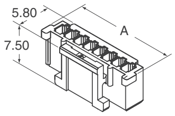

Fig. 4

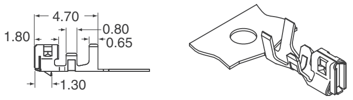

Fig.	Cir-cuits	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
			Vertical Headers — RoHS Compliant				
1	2	7.70	WM18920-ND	.38	.34	.23	35362-0250
	3	9.70	WM18921-ND	.46	.41	.28	35362-0350
	4	10.30	WM18922-ND	.53	.47	.32	35362-0450
	5	12.30	WM18923-ND	.65	.58	.39	35362-0550
	6	14.30	WM18924-ND	.71	.63	.42	35362-0650
	7	16.30	WM18925-ND	.79	.71	.47	35362-0750
	8	18.30	WM18926-ND	.93	.82	.55	35362-0850
	9	20.30	WM18927-ND	1.00	.89	.59	35362-0950
	10	22.30	WM18928-ND	1.10	.98	.65	35362-1050
	11	24.30	WM18929-ND	1.16	1.02	.69	35362-1150
	12	26.30	WM18930-ND	1.22	1.08	.72	35362-1250
			Right Angle Headers				
2	2	7.70	WM18931-ND◆	.49	.44	.30	35363-0260
	3	9.70	WM18932-ND◆	.55	.49	.33	35363-0360
	4	10.30	WM18933-ND◆	.59	.53	.35	35363-0460
	5	12.30	WM18934-ND◆	.71	.63	.42	35363-0560
	6	14.30	WM18935-ND◆	.76	.68	.45	35363-0660
	7	16.30	WM18936-ND◆	.87	.77	.52	35363-0760
	8	18.30	WM18937-ND◆	.99	.88	.59	35363-0860

Fig.	Cir-cuits	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	9	20.30	WM18938-ND◆	1.06	.94	.63	35363-0960
	10	22.30	WM6046-ND	1.13	1.00	.67	35363-1010
	10	22.30	WM18939-ND◆	1.16	1.02	.69	35363-1060
	11	24.30	WM18940-ND◆	1.23	1.09	.73	35363-1160
	12	26.30	WM6048-ND	1.25	1.11	.74	35363-1210
	12	26.30	WM18941-ND◆	1.29	1.14	.76	35363-1260
			Crimp Housing — RoHS Compliant				
3	2	7.20	WM5981-ND	.20	.18	.12	35507-0200
	3	9.20	WM5982-ND	.23	.21	.14	35507-0300
	4	10.30	WM5983-ND	.26	.24	.16	35507-0400
	5	12.30	WM5984-ND	.29	.26	.18	35507-0500
	6	14.30	WM5985-ND	.32	.28	.19	35507-0600
	7	16.30	WM5986-ND	.35	.31	.21	35507-0700
	8	18.30	WM5987-ND	.38	.34	.23	35507-0800
	9	20.30	WM5988-ND	.39	.35	.24	35507-0900
	10	22.30	WM5989-ND	.41	.37	.25	35507-1000
	11	24.30	WM5990-ND	.42	.38	.25	35507-1100
	12	26.30	WM5991-ND	.45	.40	.27	35507-1200
4	Crimp Terminal, 24-30 AWG Contact: Phosphor Bronze Plating: Tin		WM6050-ND	—	.27	.22	50212-8100
—	Crimp Tool, 24-30 AWG		WM9973-ND	214.65	—	—	63811-1200

◆ *RoHS Compliant*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

2mm Milli-Grid™ Connectors

HEADERS: Electrical: • Current: 2.0A • Dielectric Withstanding Voltage: 500V (Shrouded Vertical, SMT, and Right Angle: 1000V) • Insulation Resistance: 1000MΩ minimum **Physical:** • Housing: 4/6 nylon, UL 94V-0 (Right Angle: Black glass-filled polyester, UL 94V-0) • Contact: Phosphor Bronze • Plating: 15µ" Select Gold • Temperature: -55°C ~ 105°C

RECEPTACLE: Electrical: • Voltage: 125V • Current: 1.0A • Contact Resistance: 25mΩ maximum (Side Entry, Side Entry SMT, and Top/Bottom Entry: 15mΩ maximum) • Dielectric Withstanding Voltage: 500VAC (Top/Bottom Entry: 1000V) • Insulation Resistance: 1000MΩ minimum **Physical:** • Housing: Black glass-filled polyester, UL 94V-0 (Top/Bottom Entry: Black LCP, UL 94V-0, Side Entry and Side Entry SMT: Black nylon, UL 94V-0) • Contact: Phosphor Bronze • Plating: 15µ" Select Gold • Temperature: -55°C ~ 105°C

CRIMP TERMINAL: Electrical: • Voltage: 125V • Current: **26AWG:** 1.5A, **28AWG:** 1.0A, and **30AWG:** 0.5A • Contact Resistance: 40mΩ maximum **Physical:** • Contact: Phosphor Bronze • Plating: 15µ" Select Gold • Temperature: -40°C ~ 105°C • Wire Range: 24-30AWG • Insulation Range: 1.40mm diameter maximum

CRIMP HOUSING: Physical: • Housing: Black glass-filled polyester, UL 94V-0 • Temperature: -55°C ~ 105°C

Fig. 1 – Vertical

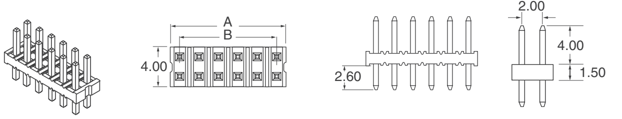

Fig. 7 – Vertical, Dual Row Through-Hole

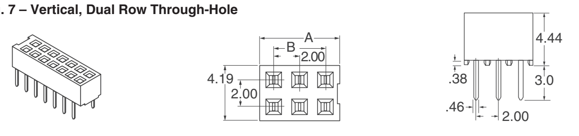

Fig. 2 – Right Angle

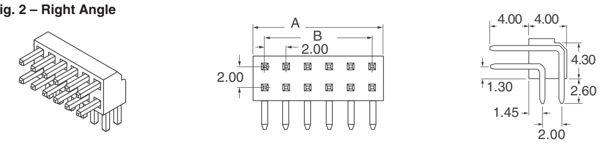

Fig. 8 – Side Entry

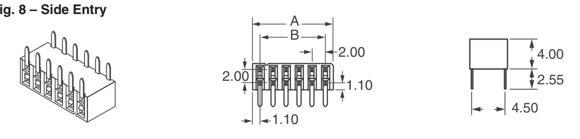

Fig. 3 – Shrouded Vertical

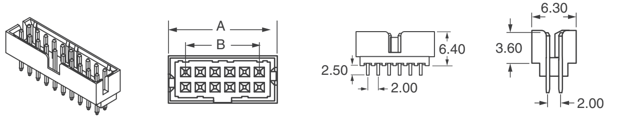

Fig. 9 – Side Entry SMT

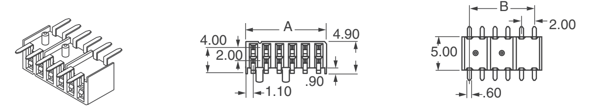

Fig. 4 – Shrouded Right Angle

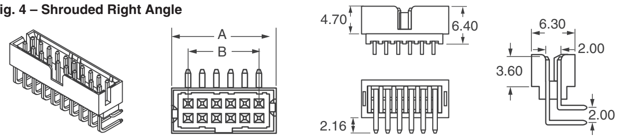

Fig. 10 – Top/Bottom Entry SMT (VLPR2)

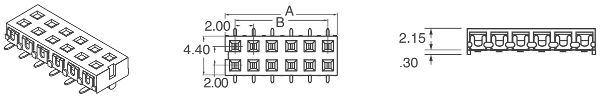

Fig. 5 – Shrouded SMT

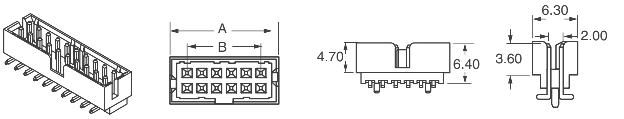

Fig. 11 – Vertical, Dual Row Top/Bottom Entry, SMT

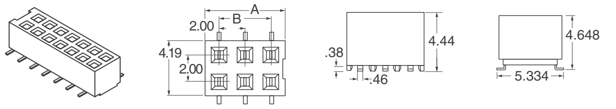

Fig. 6 – Vertical SMT

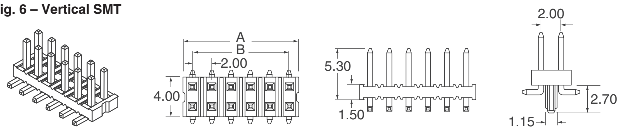

Fig. 12 – Crimp Housing

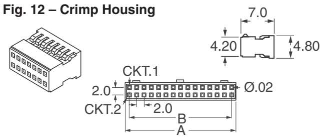

Fig. 13 – Crimp Terminal

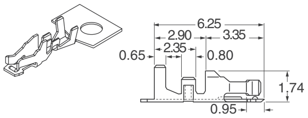

Fig.	Cir-cuits	Dim. (mm)		Digi-Key Part No.	Pricing			Molex Part No.
		A	B		1	10	100	
Vertical Headers								
1	4	3.90	2.00	WM18833-ND	.67	5.95	39.64	87758-0416
	6	5.90	4.00	WM18834-ND	.91	7.99	53.27	87758-0616
	8	7.90	6.00	WM18835-ND	1.05	9.25	61.64	87758-0816
	10	9.90	8.00	WM18836-ND	1.18	10.37	69.13	87758-1016
	12	11.90	10.00	WM18837-ND	1.41	12.48	83.23	87758-1216
	14	13.90	12.00	WM18838-ND	1.47	12.94	86.30	87758-1416
	16	15.90	14.00	WM18839-ND	1.57	13.87	92.48	87758-1616-C
	18	17.90	16.00	WM18840-ND	1.77	15.65	104.35	87758-1816
	20	19.90	18.00	WM18841-ND	2.10	18.56	123.75	87758-2016
	22	21.90	20.00	WM18842-ND	2.31	20.41	136.07	87758-2216
	24	23.90	22.00	WM18843-ND	2.38	21.00	140.03	87758-2416
	26	25.90	24.00	WM18844-ND	2.73	24.05	160.31	87758-2616
	28	27.90	26.00	WM18845-ND	2.93	25.90	172.64	87758-2816
	30	29.90	28.00	WM18846-ND	2.99	26.42	176.13	87758-3016
	32	31.90	30.00	WM18847-ND	3.07	27.08	180.55	87758-3216
	34	33.90	32.00	WM18848-ND	3.12	27.54	183.62	87758-3416
	36	35.90	34.00	WM18849-ND	3.30	29.13	194.22	87758-3616
	38	37.90	36.00	WM18850-ND	3.49	30.78	205.20	87758-3816
	40	39.90	38.00	WM18851-ND	3.67	32.36	215.76	87758-4016
	42	41.90	40.00	WM18852-ND	3.86	34.02	226.79	87758-4216
	44	43.90	42.00	WM18853-ND	4.03	35.60	237.35	87758-4416
	46	45.90	44.00	WM18854-ND	4.22	37.26	248.37	87758-4616
	48	47.90	46.00	WM18855-ND	4.40	38.84	258.93	87758-4816
	50	49.90	48.00	WM18856-ND	4.12	36.33	242.19	87758-5016
Right Angle Headers								
2	4	4.00	2.00	WM18612-ND	.70	6.21	41.40	87760-0416
	6	6.00	4.00	WM18613-ND	.69	6.08	40.53	87760-0616
	8	8.00	6.00	WM18614-ND	.96	8.46	56.38	87760-0816
	10	10.00	8.00	WM18615-ND	1.35	11.89	79.27	87760-1016
	12	12.00	10.00	WM18616-ND	1.45	12.82	85.45	87760-1216
	14	14.00	12.00	WM18617-ND	1.53	13.54	90.29	87760-1416
	16	16.00	14.00	WM18618-ND	1.62	14.27	95.13	87760-1616
	18	18.00	16.00	WM18619-ND	1.82	16.05	107.00	87760-1816
	20	20.00	18.00	WM18620-ND	2.02	17.84	118.91	87760-2016
	22	22.00	20.00	WM18621-ND	2.05	18.05	120.31	87760-2216
2	24	24.00	22.00	WM18622-ND	2.02	17.87	119.11	87760-2416
	26	26.00	24.00	WM18623-ND	2.42	21.33	142.22	87760-2616
	28	28.00	26.00	WM18624-ND	2.60	22.97	153.14	87760-2816
	30	30.00	28.00	WM18625-ND	2.79	24.61	164.09	87760-3016
	32	32.00	30.00	WM18626-ND	2.89	25.52	170.17	87760-3216
	34	34.00	32.00	WM18627-ND	2.96	26.13	174.19	87760-3416
	36	36.00	34.00	WM18628-ND	3.03	26.74	178.26	87760-3616
	38	38.00	36.00	WM18629-ND	3.10	27.35	182.32	87760-3816
	40	40.00	38.00	WM18630-ND	3.17	27.95	186.35	87760-4016
	42	42.00	40.00	WM18631-ND	3.24	28.56	190.41	87760-4216
	44	44.00	42.00	WM18632-ND	3.31	29.17	194.48	87760-4416
	46	46.00	44.00	WM18633-ND	3.37	29.78	198.50	87760-4616
	48	48.00	46.00	WM18634-ND	3.44	30.38	202.57	87760-4816
	50	50.00	48.00	WM18635-ND	3.10	27.35	182.32	87760-5016
Shrouded Vertical Headers								
3	4	6.65	2.00	WM18557-ND	1.07	9.42	62.79	87831-0420
	6	8.65	4.00	WM18558-ND	1.17	10.33	68.87	87831-0620
	8	10.65	6.00	WM18559-ND	1.01	8.94	59.57	87831-0820
	10	12.65	8.00	WM18560-ND	1.25	11.00	73.32	87831-1020
	12	14.65	10.00	WM18561-ND	1.49	13.19	87.91	87831-1220
	14	16.65	12.00	WM17469-ND	1.75	15.43	102.89	87831-1420
	16	18.65	14.00	WM18562-ND	1.88	16.59	110.59	87831-1620
	18	20.65	16.00	WM18563-ND	2.62	23.09	153.95	87831-1820
	20	22.65	18.00	WM18564-ND	2.49	22.00	146.67	87831-2020
	22	24.65	20.00	WM18586-ND	2.75	24.25	161.65	87831-2220
	24	26.65	22.00	WM17470-ND	3.00	26.44	176.24	87831-2420
	30	32.65	28.00	WM18565-ND	3.74	33.00	219.99	87831-3020
	40	42.65	38.00	WM18566-ND	4.99	44.06	293.73	87831-4020
	44	46.65	42.00	WM18567-ND	5.49	48.43	322.88	87831-4420
	50	52.65	48.00	WM18568-ND	6.23	55.00	366.66	87831-5020
Shrouded Right Angle Headers								
4	4	6.65	2.00	WM18858-ND	1.22	10.76	71.73	87833-0420
	6	8.65	4.00	WM18859-ND	1.31	11.55	76.99	87833-0620
	8	10.65	6.00	WM18860-ND	1.34	11.85	79.01	87833-0820

† = Leaded * Cut Tape ‡ Tape and Reel

(Continued)

2mm Milli-Grid™ Connectors *(Cont.)*

Fig.	Cir-cuits	Dim. (mm)		Digi-Key Part No.	Pricing			Molex Part No.
		A	B		1	10	100	
Shrouded Right Angle Headers								
4	10	12.65	8.00	WM18861-ND	1.38	12.22	81.44	87833-1020
	12	14.65	10.00	WM18862-ND	1.66	14.64	97.63	87833-1220
	14	16.65	12.00	WM18863-ND	1.94	17.14	114.27	87833-1420
	16	18.65	14.00	WM18864-ND	2.22	19.57	130.45	87833-1620
	18	20.65	16.00	WM18865-ND	2.49	22.00	146.67	87833-1820
	20	22.65	18.00	WM18866-ND	2.77	24.43	162.85	87833-2020
	22	24.65	20.00	WM18867-ND	3.05	26.92	179.49	87833-2220
	24	26.65	22.00	WM18868-ND	3.33	29.35	195.68	87833-2420
	30	32.65	28.00	WM18869-ND	4.15	36.64	244.30	87833-3020
	40	42.65	38.00	WM18870-ND	5.54	48.92	326.13	87833-4020
	44	46.65	42.00	WM18871-ND	6.09	53.78	358.53	87833-4420
	50	52.65	48.00	WM18872-ND	6.93	61.14	407.57	87833-5020
Shrouded SMT Headers								
5	4	6.65	2.00	WM18636-ND	1.43	12.64	84.27	87832-0420
	6	8.65	4.00	WM18637-ND	1.79	15.80	105.33	87832-0620
	8	10.65	6.00	WM18638-ND	1.96	17.26	115.05	87832-0820
	10	12.65	8.00	WM18639-ND	2.00	17.62	117.48	87832-1020
	12	14.65	10.00	WM18640-ND	2.23	19.69	131.26	87832-1220
	14	16.65	12.00	WM18641-ND	2.41	21.27	141.79	87832-1420
	16	18.65	14.00	WM18642-ND	2.64	23.34	155.57	87832-1620
	18	20.65	16.00	WM18643-ND	3.13	27.65	184.34	87832-1820
	20	22.65	18.00	WM18644-ND	3.03	26.74	178.26	87832-2020
	22	24.65	20.00	WM18645-ND	3.66	32.33	215.53	87832-2220
	24	26.65	22.00	WM18646-ND	3.72	32.82	218.79	87832-2420
	26	28.65	24.00	WM18718-ND	3.94	34.76	231.75	87832-2620
	30	32.65	28.00	WM18647-ND	4.44	39.20	261.33	87832-3020
	34	36.65	32.00	WM18719-ND	4.92	43.39	289.28	87832-3420
	40	42.65	38.00	WM18648-ND	5.54	48.92	326.13	87832-4020
	44	46.65	42.00	WM18649-ND	6.09	53.78	358.53	87832-4420
	50	52.65	48.00	WM18650-ND	6.93	61.14	407.57	87832-5020
Vertical SMT Headers								
6	4	3.90	2.00	WM18712-ND	.96	8.51	56.71	87759-0414
	6	5.90	4.00	WM18713-ND	1.39	12.27	81.83	87759-0614
	8	7.90	6.00	WM18651-ND	2.32	20.50	136.64	87759-0850
	10	9.90	8.00	WM18652-ND	1.77	15.62	104.16	87759-1050
	12	11.90	10.00	WM18653-ND	2.07	18.23	121.55	87759-1250
	14	13.90	12.00	WM18654-ND	2.22	19.57	130.45	87759-1450
	16	15.90	14.00	WM18655-ND	2.42	21.39	142.61	87759-1650
	18	17.90	16.00	WM18656-ND	2.60	22.97	153.14	87759-1850
	20	19.90	18.00	WM18657-ND	2.75	24.31	162.04	87759-2050
	22	21.90	20.00	WM18658-ND	3.03	26.74	178.26	87759-2250
	24	23.90	22.00	WM18659-ND	3.15	27.78	185.22	87759-2450
	26	25.90	24.00	WM18660-ND	3.58	31.60	210.66	87759-2650
	28	27.90	26.00	WM18661-ND†	3.86	34.03	226.88	87759-2850
	30	29.90	28.00	WM18662-ND	3.93	34.64	230.94	87759-3050
	32	31.90	30.00	WM18663-ND	4.19	36.95	246.31	87759-3250
	34	33.90	32.00	WM18664-ND	4.45	39.26	261.72	87759-3450
	36	35.90	34.00	WM18665-ND	4.71	41.57	277.12	87759-3650
	38	37.90	36.00	WM18666-ND	4.96	43.76	291.71	87759-3850
	40	39.90	38.00	WM18667-ND	10.72	94.56	630.38	87759-4050
	42	41.90	40.00	WM18668-ND	5.21	45.94	306.27	87759-4250
	44	43.90	42.00	WM18669-ND	5.45	48.13	320.86	87759-4450
	46	45.90	44.00	WM18670-ND	4.45	39.26	261.72	87759-4650
	48	47.90	46.00	WM18671-ND	4.71	41.57	277.12	87759-4850
	50	49.90	48.00	WM18672-ND	6.20	54.69	364.61	87759-5050
Board-to-Board Receptacle Vertical, Dual Row Through-Hole								
7	4	4.19	2.00	WM18673-ND	1.75	15.43	102.89	79107-7001
	6	6.19	4.00	WM18674-ND	1.99	17.56	117.10	79107-7002
	8	8.19	6.00	WM18675-ND	2.23	19.69	131.26	79107-7003
	10	10.19	8.00	WM18676-ND	2.47	21.81	145.43	79107-7004
	12	12.19	10.00	WM18677-ND	2.71	23.95	159.64	79107-7005
	14	14.19	12.00	WM18678-ND	2.89	25.52	170.17	79107-7006
	16	16.19	14.00	WM18679-ND	3.15	27.77	185.15	79107-7007
	18	18.19	16.00	WM18680-ND	3.39	29.90	199.32	79107-7008
	20	20.19	18.00	WM18681-ND	3.55	31.36	209.07	79107-7009
	22	22.19	20.00	WM18682-ND	3.71	32.75	218.36	79107-7010
	24	24.19	22.00	WM18683-ND	4.05	35.73	238.22	79107-7011
	30	30.19	28.00	WM18684-ND	5.06	44.67	297.79	79107-7014
	40	40.19	38.00	WM18685-ND	6.76	59.61	397.43	79107-7019
	44	44.19	42.00	WM18686-ND	7.43	65.57	437.15	79107-7021
	50	50.19	48.00	WM18687-ND	8.44	74.50	496.68	79107-7024
Receptacle — Side Entry								
8	8	8.20	6.00	WM19036-ND	2.40	21.15	140.98	87264-0852
	10	10.20	8.00	WM18137-ND†	2.47	21.83	145.51	87264-1050
	10	10.20	8.00	WM19037-ND	2.62	23.16	154.37	87264-1052
	12	12.20	10.00	WM19038-ND	2.86	25.22	168.12	87264-1252
	14	14.20	12.00	WM18139-ND†	2.99	26.38	175.88	87264-1450
	14	14.20	12.00	WM19039-ND	3.09	27.23	181.51	87264-1452
	16	16.20	14.00	WM19040-ND	3.32	29.29	195.29	87264-1652
	18	18.20	16.00	WM18141-ND†	3.35	29.53	196.84	87264-1850
	18	18.20	16.00	WM19041-ND	3.55	31.30	208.64	87264-1852
	20	20.20	18.00	WM19042-ND	3.78	33.36	222.42	87264-2052
	22	22.20	20.00	WM18143-ND†	3.78	33.37	222.47	87264-2250
	22	22.20	20.00	WM19043-ND	4.01	35.37	235.78	87264-2252
	24	24.20	22.00	WM18144-ND†	4.00	35.33	235.56	87264-2450
	24	24.20	22.00	WM19044-ND	4.24	37.43	249.56	87264-2452
	26	26.20	24.00	WM19045-ND	4.73	41.75	278.32	87264-2652
	28	28.20	26.00	WM18146-ND†	4.68	41.30	275.31	87264-2850
	28	28.20	26.00	WM19046-ND	4.96	43.76	291.71	87264-2852
	30	30.20	28.00	WM19047-ND	5.19	45.82	305.46	87264-3052
	32	32.20	30.00	WM19048-ND	5.42	47.83	318.85	87264-3252
	34	34.20	32.00	WM18149-ND†	5.34	47.10	314.00	87264-3450
	34	34.20	32.00	WM19049-ND	5.65	49.89	332.63	87264-3452
	36	36-20	34.00	WM19050-ND	5.88	51.90	345.99	87264-3652
	38	38.20	36.00	WM18151-ND†	5.77	50.95	339.68	87264-3850
	38	38.20	36.00	WM19051-ND	6.12	53.96	359.77	87264-3852
	40	40.20	38.00	WM19052-ND	6.34	55.97	373.12	87264-4052
	42	42.20	40.00	WM18153-ND†	6.20	54.74	364.96	87264-4250
	42	42.20	40.00	WM19053-ND	6.57	57.98	386.51	87264-4252
	44	44.20	42.00	WM19054-ND	6.80	60.04	400.26	87264-4452
	46	46.20	44.00	WM18155-ND†	6.69	58.99	393.29	87264-4650
	46	46.20	44.00	WM19055-ND	7.03	62.05	413.65	87264-4652
	48	48.20	46.00	WM18156-ND†	6.86	60.53	403.52	87264-4850
	48	48.20	46.00	WM19056-ND	7.27	64.11	427.43	87264-4852
	50	50.20	48.00	WM19057-ND	7.49	66.12	440.78	87264-5052
Receptacle — Side Entry SMT								
9	10	10.20	8.00	WM19058-ND	4.06	35.85	239.03	87368-1024
	12	12.20	10.00	WM19059-ND	4.88	43.03	286.84	87368-1224
	14	14.20	12.00	WM18182-ND†	4.84	42.72	284.80	87368-1420
	14	14.20	12.00	WM19060-ND	5.14	45.34	302.24	87368-1424
	16	16.20	14.00	WM19061-ND	5.37	47.40	316.02	87368-1624
	18	18.20	16.00	WM18184-ND†	5.36	47.25	315.01	87368-1820
	18	18.20	16.00	WM19062-ND	5.68	50.13	334.22	87368-1824
	20	20.20	18.00	WM19063-ND	5.82	51.35	342.35	87368-2024
	22	22.20	20.00	WM18186-ND†	5.57	49.15	327.67	87368-2220
	22	22.20	20.00	WM19064-ND	5.91	52.14	347.61	87368-2224
	24	24.20	22.00	WM18187-ND†	6.08	53.68	357.88	87368-2420
	24	24.20	22.00	WM19065-ND	6.45	56.88	379.20	87368-2424
	26	26.20	24.00	WM18188-ND†	6.36	56.15	374.31	87368-2620
	26	26.20	24.00	WM19066-ND	6.75	59.56	397.04	87368-2624
	28	28.20	26.00	WM18189-ND†	6.49	57.30	382.00	87368-2820
	28	28.20	26.00	WM19067-ND	6.89	60.77	405.13	87368-2824
	30	30.20	28.00	WM19068-ND	7.23	63.81	425.38	87368-3024
	32	32.20	30.00	WM19069-ND	7.58	66.85	445.66	87368-3224
	34	34.20	32.00	WM18192-ND†	7.79	68.77	458.45	87368-3420
	34	34.20	32.00	WM19070-ND	8.26	72.92	486.15	87368-3424
	36	36.20	34.00	WM18193-ND†	8.44	74.50	496.66	87368-3620
	36	36.20	34.00	WM19071-ND	8.95	79.00	526.68	87368-3624
	38	38.20	36.00	WM19072-ND	9.64	85.08	567.17	87368-3824
	40	40.20	38.00	WM18195-ND†	9.09	80.23	534.85	87368-4020
	40	40.20	38.00	WM19073-ND	9.64	85.08	567.17	87368-4024
	42	42.20	40.00	WM18196-ND†	9.74	85.97	573.12	87368-4220
	42	42.20	40.00	WM19074-ND	10.33	91.15	607.70	87368-4224
	44	44.20	42.00	WM19075-ND	11.02	97.23	648.23	87368-4424
	46	46.20	44.00	WM18198-ND†	11.65	102.79	685.29	87368-4620
	46	46.20	44.00	WM19076-ND	12.36	109.02	726.81	87368-4624
	48	48.20	46.00	WM18199-ND†	12.15	107.25	715.00	87368-4820
	48	48.20	46.00	WM19077-ND	12.89	113.76	758.40	87368-4824
	50	50.20	48.00	WM19078-ND	13.43	118.50	790.02	87368-5024
Receptacle — Top/Bottom Entry SMT (VLPR2)								
10	4	4.00	2.00	WM18688-ND	1.20	10.57	70.49	87340-0424
	6	6.00	4.00	WM18689-ND	1.70	15.00	99.97	87340-0624
	8	8.00	6.00	WM18690-ND	2.36	20.81	138.72	87340-0824
	10	10.00	8.00	WM18691-ND	2.62	23.09	153.95	87340-1024
	12	12.00	10.00	WM18692-ND	3.13	27.65	184.34	87340-1224
	14	14.00	12.00	WM18693-ND	4.25	37.50	249.98	87340-1424
	16	16.00	14.00	WM18694-ND	4.75	41.93	279.56	87340-1624
	18	18.00	16.00	WM18695-ND	5.17	45.58	303.87	87340-1824
	20	20.00	18.00	WM18696-ND	5.51	48.62	324.11	87340-2024
Board-to-Board Receptacle Vertical, Dual Row Top/Bottom Entry SMT								
11	4	4.19	2.00	WM18697-ND	1.93	17.02	113.46	79109-1001
	6	6.19	4.00	WM18698-ND	2.19	19.32	128.83	79109-1002
	8	8.19	6.00	WM18699-ND	2.45	21.63	144.23	79109-1003
	10	10.19	8.00	WM18700-ND	2.72	24.00	160.03	79109-1004
	12	12.19	10.00	WM18701-ND	2.99	26.37	175.82	79109-1005
	14	14.19	12.00	WM18702-ND	3.18	28.07	187.16	79109-1006
	16	16.19	14.00	WM18703-ND	3.46	30.51	203.38	79109-1007
	18	18.19	16.00	WM18704-ND	3.73	32.88	219.17	79109-1008
	20	20.19	18.00	WM18705-ND	3.90	34.46	229.70	79109-1009
	22	22.19	20.00	WM18706-ND	4.08	36.03	240.23	79109-1010
	24	24.19	22.00	WM18707-ND	4.46	39.32	262.14	79109-1011
	30	30.19	28.00	WM18708-ND	5.57	49.16	327.75	79109-1014
	40	40.19	38.00	WM18709-ND	7.43	65.57	437.15	79109-1019
	44	44.19	42.00	WM18710-ND	8.18	72.13	480.89	79109-1021
	50	50.19	48.00	WM18711-ND	9.28	81.92	546.11	79109-1024
Crimp Housing — Standard								
12	4	4.20	2.00	WM18030-ND	.29	2.52	16.77	51110-0450
	6	6.20	4.00	WM18031-ND	.41	3.61	24.05	51110-0650
	8	8.20	6.00	WM18032-ND	.45	3.95	26.30	51110-0850
	10	10.20	8.00	WM18033-ND	.48	4.22	28.12	51110-1050
	12	12.20	10.00	WM18034-ND	.50	4.42	29.47	51110-1250
	14	14.20	12.00	WM18035-ND	.59	5.17	34.45	51110-1450
	16	16.20	14.00	WM18036-ND	.69	6.12	40.82	51110-1650
	18	18.20	16.00	WM18037-ND	.76	6.67	44.46	51110-1850
	20	20.20	18.00	WM18038-ND	.84	7.42	49.44	51110-2050
	22	22.20	20.00	WM18039-ND	.93	8.16	54.42	51110-2250
	24	24.20	22.00	WM18040-ND	1.01	8.91	59.41	51110-2450
	26	26.20	24.00	WM18041-ND	1.09	9.59	63.96	51110-2650
	28	28.20	26.00	WM18042-ND	1.17	10.34	68.94	51110-2850
	30	30.20	28.00	WM18043-ND	1.26	11.09	73.93	51110-3050
Crimp Housing with Polarization Keys								
12	4	4.20	2.00	WM18576-ND	.30	2.68	17.84	51110-0460
	6	6.20	4.00	WM18577-ND	.43	3.83	25.51	51110-0660
	8	8.20	6.00	WM18044-ND	.45	3.95	26.30	51110-0851
	10	10.20	8.00	WM18045-ND	.48	4.22	28.12	51110-1051
	12	12.20	10.00	WM18046-ND	.50	4.42	29.47	51110-1251
	14	14.20	12.00	WM18047-ND	.59	5.17	34.45	51110-1451
	16	16.20	14.00	WM18048-ND	.69	6.12	40.82	51110-1651
	18	18.20	16.00	WM18049-ND	.76	6.67	44.46	51110-1851
	20	20.20	18.00	WM18050-ND	.84	7.42	49.44	51110-2051
	22	22.20	20.00	WM18051-ND	.93	8.16	54.42	51110-2251
	24	24.20	22.00	WM18052-ND	1.01	8.91	59.41	51110-2451
	26	26.20	24.00	WM18053-ND	1.09	9.59	63.96	51110-2651
	28	28.20	26.00	WM18054-ND	1.17	10.34	68.94	51110-2851
	30	30.20	28.00	WM18055-ND	1.26	11.09	73.93	51110-3051
13	Crimp Terminal (24-30 AWG)			WM1128-ND	—	1.39	11.11	50394-8100
				WM1128CT-ND*	—	—	9.24	50394-8051
				WM1128TR-ND‡		460.00/10,000		50394-8051
	Crimp Terminal (24-30 AWG)			WM2139-ND	—	1.64	13.14	50394-8200
				WM2139TR-ND‡		580.00/10,000		50394-8052
—	Housing Extraction			WM9934-ND	382.66	—	—	11-03-0045
	Hand Tool for 2mm Crimp Contacts			WM18057-ND	228.96	—	—	11-01-0204

† = Leaded * Cut Tape ‡ Tape and Reel

NEW! MicroBlade™ 2.00mm Connectors

Header Specifications: Electrical: • Voltage: 125V • Current: 2.0A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 500VAC/1 min. • Insulation Resistance: 1000MΩ minimum **Physical:** • Housing: Glass filled 6/6 nylon, UL 94V-0 • Contact: Tin plated phosphor bronze • Operating Temperature: -20°C ~ 85°C • UL File No. E29179 • CSA File No. LR19980

Receptacle Specifications: Physical: Housing: PBTP, UL94V-0 • Operating Temperature: -20°C ~ 85°C • UL File No. E29179 • CSA File No. LR19980

Fig. 1 — Vertical Header

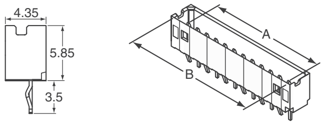

Fig. 2 — Right Angle Header

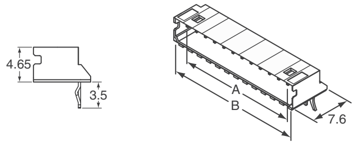

Fig. 3 — Receptacle

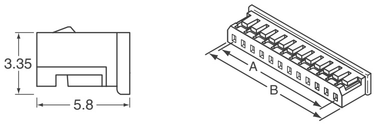

No. of Pos.	Dimensions – mm A	B	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Fig. 1 — Vertical Headers							
2	2	6	WM18966-ND	.48	4.26	28.37	53014-0210
3	4	8	WM18967-ND	.55	4.86	32.40	53014-0310
4	6	10	WM18994-ND	.62	5.47	36.47	53014-0410
5	8	12	WM18968-ND	.69	6.08	40.53	53014-0510
6	10	14	WM18969-ND	.83	7.29	48.62	53014-0610
7	12	16	WM18970-ND	.96	8.51	56.71	53014-0710
8	14	18	WM18971-ND	1.10	9.73	64.84	53014-0810
9	16	20	WM18972-ND	1.24	10.94	72.93	53014-0910
10	18	22	WM18973-ND	1.38	12.15	81.02	53014-1010
11	20	24	WM18974-ND	1.52	13.37	89.14	53014-1110
12	22	26	WM18975-ND	1.65	14.59	97.24	53014-1210
13	24	28	WM18976-ND	1.79	15.80	105.33	53014-1310
14	26	30	WM18977-ND	1.93	17.02	113.45	53014-1410
15	28	32	WM18978-ND	2.07	18.23	121.55	53014-1510
Fig. 2 — Right Angle Headers							
2	2	6	WM18979-ND	.48	4.26	28.37	53015-0210
3	4	8	WM18980-ND	.57	5.02	33.46	53015-0310
4	6	10	WM18981-ND	.62	5.47	36.47	53015-0410
5	8	12	WM18982-ND	.69	6.05	40.32	53015-0510
6	10	14	WM18983-ND	.83	7.29	48.62	53015-0610
7	12	16	WM18984-ND	.96	8.51	56.71	53015-0710
8	14	18	WM18995-ND	1.10	9.73	64.84	53015-0810
9	16	20	WM18985-ND	1.24	10.92	72.82	53015-0910
10	18	22	WM18986-ND	1.38	12.15	81.02	53015-1010
11	20	24	WM18987-ND	1.52	13.37	89.14	53015-1110
12	22	26	WM18988-ND	1.65	14.59	97.24	53015-1210
13	24	28	WM18989-ND	1.79	15.80	105.33	53015-1310
14	26	30	WM18990-ND	1.93	17.02	113.45	53015-1410
15	28	32	WM18991-ND	2.07	18.23	121.55	53015-1510
Fig. 3 — Receptacles							
2	2	4.9	WM18951-ND	.36	3.16	21.06	51004-0200
3	4	6.9	WM18952-ND	.42	3.70	24.70	51004-0300
4	6	8.9	WM18953-ND	.50	4.44	29.58	51004-0400
5	8	10.9	WM18954-ND	.56	4.98	33.21	51004-0500
6	10	12.9	WM18955-ND	.64	5.65	37.67	51004-0600
7	12	14.9	WM18956-ND	.72	6.32	42.15	51004-0700
8	14	16.9	WM18957-ND	.79	6.93	46.18	51004-0800
9	16	18.9	WM18958-ND	.86	7.59	50.63	51004-0900
10	18	20.9	WM18959-ND	.92	8.15	54.31	51004-1000
11	20	22.9	WM18960-ND	1.00	8.81	58.76	51004-1100
12	22	24.9	WM18961-ND	1.07	9.48	63.21	51004-1200
13	24	26.9	WM18962-ND	1.14	10.09	67.24	51004-1300
14	26	28.9	WM18963-ND	1.21	10.70	71.30	51004-1400
15	28	30.9	WM18964-ND	1.28	11.30	75.36	51004-1500
Contacts							
Crimp Socket – Tin (24 ~ 30AWG)			WM18992-ND	.41	3.65	24.31	50011-8100
Crimp Socket – Tin .... (24 ~ 30AWG)			WM18965CT-ND† WM18965TR-ND‡	.14 490.00/10,000	1.23	8.20	50011-8000 50011-8000

† Cut Tape ‡ Tape and Reel

NEW! iGrid™ 2.00mm Connectors

Header Specifications: • Color: Natural • Material: Tin plated Brass • Operating Temperature: -25°C ~ 85°C • Maximum Current: 2.00A • Maximum Voltage: 250V

Receptacle Specifications:
• Color: Beige • Material: Nylon • Operating Temperature Range: -25°C ~ 85°C

Fig. 1

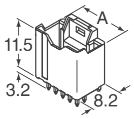

Fig. 2

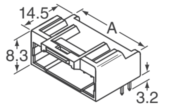

Fig. 3

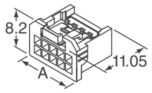

Fig.	No. of Pos.	Dim. A mm	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Vertical Headers							
1	10	12	WM6072-ND	3.17	2.80	1.87	501645-1020
	12	14	WM6073-ND	3.54	3.13	2.09	501645-1220
	14	16	WM6074-ND	3.89	3.44	2.29	501645-1420
	16	18	WM6075-ND	4.45	3.93	2.62	501645-1620
	18	20	WM6076-ND	4.95	4.37	2.92	501645-1820
	20	22	WM6077-ND	5.56	4.91	3.27	501645-2020
	22	24	WM6078-ND	5.91	5.22	3.48	501645-2220
	24	26	WM6079-ND	6.57	5.80	3.87	501645-2420
	26	28	WM6080-ND	6.87	6.07	4.05	501645-2620
	28	30	WM6081-ND	7.28	6.43	4.29	501645-2820
	30	32	WM6082-ND	7.80	6.89	4.59	501645-3020
	32	34	WM6083-ND	8.23	7.27	4.85	501645-3220
	34	36	WM6084-ND	8.79	7.76	5.18	501645-3420
	36	38	WM6085-ND	9.63	8.50	5.67	501645-3620
Right Angle Headers							
2	10	12	WM6086-ND	3.51	3.10	2.07	501876-1040
	12	14	WM6087-ND	3.76	3.32	2.22	501876-1240
	14	16	WM6088-ND	4.02	3.56	2.37	501876-1440
	16	18	WM6089-ND	4.52	3.99	2.66	501876-1640
	24	26	WM6090-ND	6.05	5.34	3.56	501876-2440
	26	28	WM6091-ND	6.57	5.81	3.87	501876-2640
2	34	36	WM6092-ND	7.87	6.95	4.63	501876-3440
	36	38	WM6093-ND	8.09	7.14	4.76	501876-3640
Receptacles							
3	10	12	WM6058-ND	3.00	2.65	1.77	501646-1000
	12	14	WM6059-ND	3.25	2.87	1.92	501646-1200
	14	16	WM6060-ND	3.40	3.00	2.00	501646-1400
	16	18	WM6061-ND	3.50	3.09	2.06	501646-1600
	18	20	WM6062-ND	3.62	3.20	2.14	501646-1800
	20	22	WM6063-ND	4.08	3.61	2.41	501646-2000
	22	24	WM6064-ND	5.00	4.42	2.95	501646-2200
	24	26	WM6065-ND	5.25	4.64	3.09	501646-2400
	26	28	WM6066-ND	5.67	5.00	3.34	501646-2600
	28	30	WM6067-ND	6.00	5.30	3.53	501646-2800
	30	32	WM6068-ND	6.23	5.50	3.67	501646-3000
	32	34	WM6069-ND	6.60	5.83	3.89	501646-3200
	34	36	WM6070-ND	6.79	6.00	4.00	501646-3400
	36	38	WM6071-ND	7.09	6.26	4.18	501646-3600
Female Terminal, 22 ~ 26AWG			WM6057CT-ND† WM6057TR-ND‡	— 864.00/16,000	.14	.11	501647-1000 501647-1000
Hand Crimp Tool, 22 ~ 26AWG			WM9997-ND	1667.66/1			578021-5300

† Cut Tape ‡ Tape and Reel

2.50mm and 3.96mm SPOX™ Connectors

FEATURES: • Sizes 2 ~ 15 circuits • Very low profile • Molded-in pull tabs • Friction lock **ELECTRICAL:** • Voltage: 250V • Current: 3A maximum • **Contact Resistance:** 20mΩ maximum • **Dielectric Withstanding Voltage:** 1000VAC/1 minute • **Insulation Resistance:** 1000MΩ minimum **SPECIFICATIONS:** • **Housing:** 6/6 nylon, UL 94V-0 • **Operating Temperature:** -40°C ~ 105°C • **UL File No.:** E29179 • **CAS File No.:** LR19980

Fig. 1

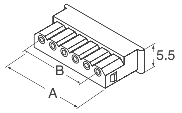

Fig. 2

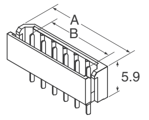

Fig. 3

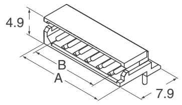

Fig. 4

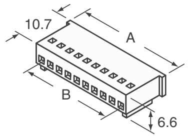

Fig. 5

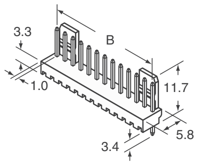

Fig. 6

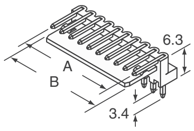

Fig. 7

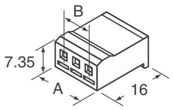

Fig. 8

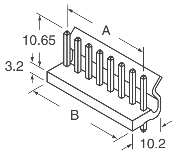

Fig.	Cir-cuits	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
SPOX Receptacle Housing 2.50mm								
1	2	5.80	2.50	WM18873-ND	.31	2.72	18.16	50-37-5023
	3	8.30	5.00	WM18874-ND	.39	3.40	22.66	50-37-5033
	4	10.80	7.50	WM17405-ND	.46	4.08	27.21	50-37-5043
	5	13.30	10.00	WM18875-ND	.54	4.76	31.76	50-37-5053
	6	15.80	12.50	WM18876-ND	.62	5.44	36.27	50-37-5063
	7	18.30	15.00	WM18877-ND	.69	6.12	40.82	50-37-5073
	8	20.80	17.50	WM18878-ND	.77	6.80	45.37	50-37-5083
	9	23.30	20.00	WM18879-ND	.85	7.48	49.88	50-37-5093
	10	25.80	22.50	WM18880-ND	.93	8.16	54.42	50-37-5103
	11	28.30	25.00	WM18881-ND	1.00	8.85	58.97	50-37-5113
	12	30.80	27.50	WM18882-ND	1.08	9.52	63.48	50-37-5123
	13	33.30	30.00	WM18883-ND	1.16	10.20	68.03	50-37-5133
	14	35.80	32.50	WM18884-ND	1.19	10.54	70.28	50-37-5143
	15	38.30	35.00	WM18885-ND	1.23	10.89	72.58	50-37-5153
SPOX Vertical Fully Shrouded 2.50mm								
2	2	7.40	2.50	WM18886-ND	.67	5.89	39.29	22-03-5025
	3	9.90	5.00	WM18887-ND	.81	7.17	47.81	22-03-5035
	4	12.40	7.50	WM18888-ND	.96	8.45	56.32	22-03-5045
	5	14.90	10.00	WM18889-ND	1.09	9.60	64.03	22-03-5055
	6	17.40	12.50	WM18890-ND	1.23	10.82	72.12	22-03-5065
	7	19.90	15.00	WM18891-ND	1.36	12.03	80.21	22-03-5075
	8	22.40	17.50	WM18892-ND	1.51	13.31	88.72	22-03-5085
	9	24.90	20.00	WM18893-ND	1.65	14.59	97.24	22-03-5095
	10	27.40	22.50	WM18894-ND	1.80	15.86	105.75	22-03-5105
	11	29.90	25.00	WM18895-ND	1.94	17.08	113.85	22-03-5115
	12	32.40	27.50	WM18896-ND	2.07	18.29	121.94	22-03-5125
	13	34.90	30.00	WM18897-ND	2.20	19.45	129.64	22-03-5135
	14	37.40	32.50	WM18898-ND	2.35	20.72	138.15	22-03-5145
	15	39.90	35.00	WM18899-ND	2.50	22.06	147.06	22-03-5155
SPOX Right Angle Fully Shrouded 2.50mm								
3	2	7.40	2.50	WM18900-ND	.78	6.87	45.79	22-05-7025
	3	9.90	5.00	WM18901-ND	.90	7.96	53.07	22-05-7035
	4	12.40	7.50	WM18902-ND	1.05	9.24	61.59	22-05-7045
	5	14.90	10.00	WM18903-ND	1.18	10.45	69.68	22-05-7055
	6	17.40	12.50	WM18904-ND	1.32	11.61	77.38	22-05-7065
	7	19.90	15.00	WM18905-ND	1.46	12.88	85.90	22-05-7075
	8	22.40	17.50	WM18906-ND	1.60	14.10	93.99	22-05-7085
	9	24.90	20.00	WM18907-ND	1.73	15.25	101.69	22-05-7095
	10	27.40	22.50	WM18908-ND	1.87	16.47	109.78	22-05-7105
	11	29.90	25.00	WM18909-ND	2.01	17.74	118.30	22-05-7115
	12	32.40	27.50	WM18910-ND	2.14	18.90	126.00	22-05-7125
	13	34.90	30.00	WM18911-ND	2.28	20.11	134.09	22-05-7135
	14	37.40	32.50	WM18912-ND	2.42	21.33	142.22	22-05-7145
	15	39.90	35.00	WM18913-ND	2.55	22.49	149.92	22-05-7155
Mini SPOX Receptacle Housing 2.50mm								
4	2	6.00	2.50	WM18769-ND	.30	2.61	17.42	22-01-1024
	3	8.50	5.00	WM18770-ND	.36	3.16	21.06	22-01-1034
	4	11.00	7.50	WM18771-ND	.42	3.70	24.70	22-01-1044
	5	13.50	10.00	WM18772-ND	.47	4.13	27.56	22-01-1054
	6	16.00	12.50	WM18773-ND	.52	4.62	30.78	22-01-1064
	7	18.50	15.00	WM18774-ND	.58	5.10	34.03	22-01-1074
	8	21.00	17.50	WM18775-ND	.63	5.59	37.28	22-01-1084
	9	23.50	20.00	WM18776-ND	.70	6.14	40.92	22-01-1094
	10	26.00	22.50	WM18777-ND	.74	6.56	43.74	22-01-1104
	11	28.50	25.00	WM18778-ND	.81	7.11	47.42	22-01-1114
	12	31.00	27.50	WM18779-ND	.85	7.54	50.25	22-01-1124
	13	33.50	30.00	WM18780-ND	.90	7.96	53.07	22-01-1134
	14	36.00	32.50	WM18781-ND	.97	8.57	57.14	22-01-1144
	15	38.50	35.00	WM18782-ND	1.03	9.12	60.77	22-01-1154

Fig.	Cir-cuits	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Mini SPOX Vertical Headers 2.50mm Tin								
5	2	—	2.50	WM18785-ND	.83	7.35	49.01	22-04-1021
	3	—	5.00	WM18786-ND	1.00	8.81	58.76	22-04-1031
	4	—	7.50	WM18787-ND	1.18	10.45	69.68	22-04-1041
	5	—	10.00	WM18788-ND	1.36	11.97	79.82	22-04-1051
	6	—	12.50	WM18789-ND	1.54	13.61	90.74	22-04-1061
	7	—	15.00	WM18790-ND	1.58	13.92	92.79	22-04-1071
	8	—	17.50	WM18791-ND	1.94	17.14	114.27	22-04-1081
	9	—	20.00	WM18792-ND	2.11	18.66	124.37	22-04-1091
	10	—	22.50	WM18793-ND	2.22	19.63	130.88	22-04-1101
	11	—	25.00	WM18794-ND	2.51	22.12	147.48	22-04-1111
	12	—	27.50	WM18795-ND	2.64	23.34	155.57	22-04-1121
	13	—	30.00	WM18796-ND	2.78	24.49	163.28	22-04-1131
	14	—	32.50	WM18797-ND	3.13	27.59	183.95	22-04-1141
	15	—	35.00	WM18798-ND	3.28	28.93	192.85	22-04-1151
Mini SPOX Vertical Headers 2.50mm Right Angle Tin								
6	2	2.50	4.50	WM18799-ND	1.38	12.15	81.02	22-05-1022
	3	5.00	7.00	WM18800-ND	1.58	13.98	93.18	22-05-1032
	4	7.50	9.50	WM18801-ND	1.84	16.22	108.16	22-05-1042
	5	10.00	12.00	WM18802-ND	2.00	17.62	117.48	22-05-1052
	6	12.50	14.50	WM18803-ND	2.25	19.81	132.08	22-05-1062
	7	15.00	17.00	WM18804-ND	2.45	21.63	144.23	22-05-1072
	8	17.50	19.50	WM18805-ND	2.69	23.76	158.40	22-05-1082
	9	20.00	22.00	WM18806-ND	2.91	25.65	170.98	22-05-1092
	10	22.50	24.50	WM18807-ND	3.05	26.92	179.49	22-05-1102
	11	25.00	27.00	WM18808-ND	3.36	29.65	197.69	22-05-1112
	12	27.50	29.50	WM18809-ND	3.54	31.24	208.26	22-05-1122
	13	30.00	32.00	WM18810-ND	3.70	32.63	217.55	22-05-1132
	14	32.50	34.50	WM18811-ND	4.07	35.91	239.42	22-05-1142
	15	35.00	37.00	WM18812-ND	4.26	37.56	250.37	22-05-1152
SPOX Receptacle Housing 3.96mm								
7	2	9.06	3.96	WM18813-ND	.67	5.89	39.29	09-50-1021
	3	13.02	7.92	WM18814-ND	.77	6.81	45.37	09-50-1031
	4	16.98	11.88	WM18815-ND	.89	7.84	52.26	09-50-1041
	5	20.94	15.84	WM18816-ND	1.05	9.24	61.59	09-50-1051
	6	24.90	19.80	WM18817-ND	1.16	10.21	68.05	09-50-1061
	7	28.86	23.76	WM18818-ND	1.30	11.43	76.18	09-50-1071
	8	32.82	27.72	WM18819-ND	1.43	12.58	83.88	09-50-1081
SPOX Headers 3.96mm								
8	2	3.96	7.16	WM18823-ND	.62	5.47	36.47	09-65-2028
	3	7.92	11.12	WM18824-ND	.80	7.05	46.99	09-65-2038
	4	11.88	15.08	WM18825-ND	1.07	9.48	63.21	09-65-2048
	5	15.84	19.04	WM18826-ND	1.31	11.55	76.99	09-65-2058
	6	19.80	23.00	WM18827-ND	1.59	14.04	93.60	09-65-2068
	7	23.76	26.96	WM18828-ND	1.87	16.47	109.78	09-65-2078
	8	27.72	30.92	WM18829-ND	2.14	18.84	125.61	09-65-2088

Description	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Tools and Terminals for SPOX 2.50mm					
Crimp Terminal 22 ~ 28 AWG	WM17406-ND	—	2.51	20.09	08-70-1040
Crimp Terminal 22 ~ 28 AWG	WM18889CT-ND†	—	—	6.83	08-70-1039
Crimp Terminal 22 ~ 28 AWG	WM18889TR-ND‡	340.00/10,000			08-70-1039
Tools and Terminals for SPOX 3.96mm					
Crimp Hand Tool, 18 ~ 24 AWG	WM18715-ND	259.49	—	—	63811-6500
Female Terminal, 18 ~ 24 AWG	WM18820CT-ND†	—	—	7.80	08-70-1031
Female Terminal, 18 ~ 24 AWG	WM18820TR-ND‡	210.00/5,000			08-70-1031
Female Terminal, 18 ~ 24 AWG	WM18820-ND	—	2.68	21.41	08-70-1030
Female Terminal, 18 ~ 24 AWG	WM18821TR-ND‡	370.00/5,000			39-00-0021
Female Terminal, 18 ~ 24 AWG	WM18821-ND	.45	3.95	26.32	39-00-0022
Female Terminal, 22 ~ 28 AWG	WM2141-ND	—	2.61	20.90	08-70-1028
Tools and Terminals for Mini SPOX					
Crimp Hand Tool, 22 ~ 28 AWG	WM18830-ND	259.49	—	—	63811-5200
Female Terminal, 22 ~ 28 AWG	WM18783-ND	.15	1.36	9.09	08-70-0057

† Cut Tape ‡ Tape and Reel

2mm Minitek™ Connectors

Fig. 1

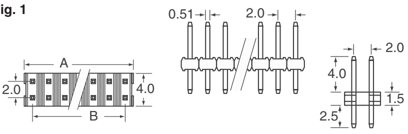

Fig. 2

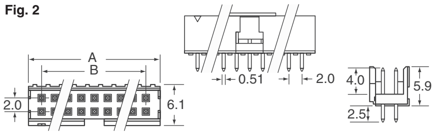

Fig. 3

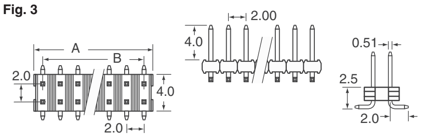

Fig. 4

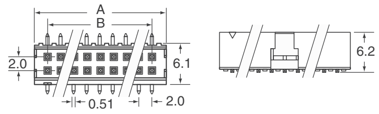

Fig. 5

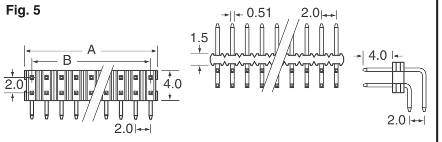

Fig. 6

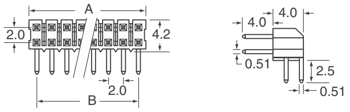

Fig. 7

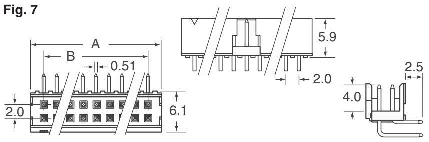

Fig. 8

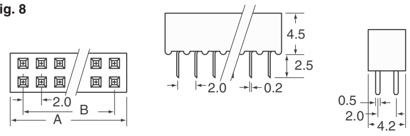

Fig. 9

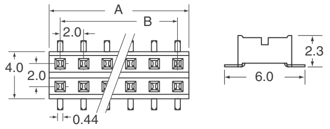

Fig. 10

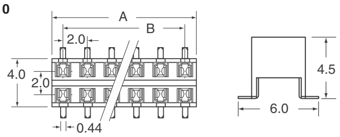

Fig. 11

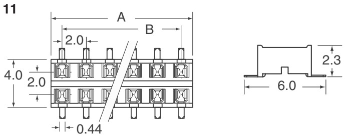

Fig. 12

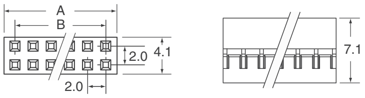

Fig. 13

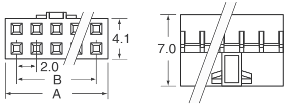

Fig. 14

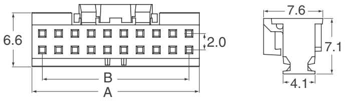

Fig. 15

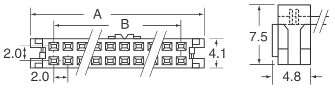

Fig. 16

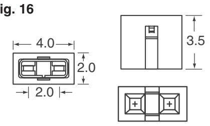

Fig.	No. of Pos.	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	FCI Part No.
Dual Row Unshrouded Vertical Headers, Through Hole								
1	4	4.00	2.00	609-2591-ND	.98	12.50	42.22	57102-G06-02LF
	6	6.00	4.00	609-2583-ND	.52	6.43	20.58	57102-G06-03LF
	8	8.00	6.00	609-2602-ND	1.06	14.63	49.21	57102-G06-04LF
	10	10.00	8.00	609-2590-ND	1.61	22.25	76.28	57102-G06-05LF
	12	12.00	10.00	609-2595-ND	1.93	26.70	91.53	57102-G06-06LF
	14	14.00	12.00	609-2596-ND	2.18	30.06	103.05	57102-G06-07LF
	16	16.00	14.00	609-2597-ND	2.30	31.08	108.78	57102-G06-08LF
	18	18.00	16.00	609-2598-ND	1.79	24.89	87.10	57102-G06-09LF
	20	20.00	18.00	609-2593-ND	1.34	18.01	61.74	57102-G06-10LF
	22	22.00	20.00	609-2594-ND	2.95	40.79	139.84	57102-G06-11LF
	24	24.00	22.00	609-2601-ND	2.88	41.32	146.63	57102-G06-12LF
	26	26.00	24.00	609-2599-ND	3.03	44.76	158.85	57102-G06-13LF
	28	28.00	26.00	609-2575-ND	3.21	48.20	168.10	57102-G06-14LF
	30	30.00	28.00	609-2603-ND	3.44	51.65	180.12	57102-G06-15LF
	32	32.00	30.00	609-2604-ND	3.62	53.68	192.12	57102-G06-16LF
	34	34.00	32.00	609-2605-ND	3.72	57.03	204.12	57102-G06-17LF
	36	36.00	34.00	609-2600-ND	3.94	60.39	209.78	57102-G06-18LF
	38	38.00	36.00	609-2592-ND	3.62	55.86	196.87	57102-G06-19LF
	40	40.00	38.00	609-2589-ND	3.81	58.80	207.24	57102-G06-20LF
	42	42.00	40.00	609-2609-ND	4.00	61.74	217.59	57102-G06-21LF
	44	44.00	42.00	609-2608-ND	3.90	60.48	219.06	57102-G06-22LF
	46	46.00	44.00	609-2611-ND	4.24	65.79	238.32	57102-G06-23LF
	48	48.00	46.00	609-2612-ND	4.42	68.65	248.67	57102-G06-24LF
	50	50.00	48.00	609-2624-ND	2.61	38.80	138.86	57102-G06-25LF
Dual Row Unshrouded Vertical Headers, Through Hole, Pin-in-Paste								
1	4	4.00	2.00	609-2886-ND§	1.81	24.48	85.66	10075024-G01-02LF
	6	6.00	4.00	609-2887-ND§	1.87	25.29	88.52	10075024-G01-03LF
	8	8.00	6.00	609-2888-ND§	1.67	22.50	78.75	10075024-G01-04ULF
	10	10.00	8.00	609-2889-ND§	1.12	15.59	54.57	10075024-G01-05ULF
	12	12.00	10.00	609-2890-ND§	1.43	20.11	65.81	10075024-G01-06ULF
	14	14.00	12.00	609-2891-ND§	1.63	22.58	77.42	10075024-G01-07ULF
	16	16.00	14.00	609-2892-ND§	2.23	30.11	105.39	10075024-G01-08ULF
	18	18.00	16.00	609-2893-ND§	2.27	32.50	115.34	10075024-G01-09ULF
	20	20.00	18.00	609-2894-ND§	2.20	32.50	115.33	10075024-G01-10ULF
	22	22.00	20.00	609-2895-ND§	2.73	40.89	142.58	10075024-G01-11ULF
	24	24.00	22.00	609-2896-ND§	2.68	39.84	142.58	10075024-G01-12ULF
	26	26.00	24.00	609-2897-ND§	3.10	47.50	165.00	10075024-G01-13ULF
	28	28.00	26.00	609-2898-ND§	3.23	49.73	175.27	10075024-G01-14ULF
	30	30.00	28.00	609-2899-ND§	3.39	52.22	184.03	10075024-G01-15ULF
	32	32.00	30.00	609-2900-ND§	3.55	54.70	192.80	10075024-G01-16ULF
	34	34.00	32.00	609-2901-ND§	3.68	56.69	199.81	10075024-G01-17ULF
	36	36.00	34.00	609-2902-ND§	3.68	57.10	206.81	10075024-G01-18ULF
	38	38.00	36.00	609-2903-ND§	3.80	59.03	213.82	10075024-G01-19ULF
	40	40.00	38.00	609-2904-ND§	3.99	61.93	224.34	10075024-G01-20ULF
	42	42.00	40.00	609-2905-ND§	4.21	65.32	236.61	10075024-G01-21ULF
	44	44.00	42.00	609-2906-ND§	4.40	68.22	247.12	10075024-G01-22ULF
1	46	46.00	44.00	609-2907-ND§	4.46	71.61	254.62	10075024-G01-23ULF
	48	48.00	46.00	609-2908-ND§	4.64	74.52	264.94	10075024-G01-24ULF
	50	50.00	48.00	609-2909-ND§	4.64	72.45	264.95	10075024-G01-25ULF
Dual Row Shrouded Vertical Headers, Through Hole								
2	6	8.00	4.00	609-3103-ND	1.35	18.71	64.15	98414-G06-06ULF
	8	10.00	6.00	609-3104-ND	1.10	15.10	50.78	98414-G06-08ULF
	10	12.00	8.00	609-2580-ND	1.63	22.57	79.00	98414-G06-10LF
	10	12.00	8.00	609-3105-ND	1.27	17.15	58.81	98414-G06-10ULF
	12	14.00	10.00	609-2581-ND	1.95	27.09	94.80	98414-G06-12LF
	12	14.00	10.00	609-3106-ND	1.52	20.59	72.05	98414-G06-12ULF
	14	16.00	12.00	609-2576-ND	2.09	28.97	101.38	98414-G06-14LF
	16	18.00	14.00	609-2577-ND	1.65	22.29	78.00	98414-G06-16LF
	16	18.00	14.00	609-3107-ND	1.92	27.45	94.96	98414-G06-16ULF
	20	22.00	18.00	609-2582-ND	1.95	27.86	96.38	98414-G06-20LF
	20	22.00	18.00	609-3108-ND	2.26	33.45	118.70	98414-G06-20ULF
	22	24.00	20.00	609-2585-ND	2.69	40.35	140.69	98414-G06-22LF
	26	28.00	24.00	609-2607-ND	3.03	46.46	166.28	98414-G06-26LF
	28	30.00	26.00	609-2587-ND	3.27	50.03	173.79	98414-G06-28LF
	34	36.00	32.00	609-2588-ND	3.84	59.15	208.48	98414-G06-34LF
	44	46.00	42.00	609-2606-ND	4.17	67.04	238.35	98414-G06-44LF
	50	52.00	48.00	609-2584-ND	4.74	74.06	270.86	98414-G06-50LF
Dual Row Shrouded Vertical Headers, Through Hole, Pin-in-Paste								
2	4	10.00	6.00	609-2934-ND§	1.43	23.14	84.64	10075025-G01-04LF
	6	14.00	10.00	609-2935-ND§	1.95	27.15	95.01	10075025-G01-06LF
	8	18.00	14.00	609-2936-ND§	1.73	24.00	84.00	10075025-G01-08ULF
	10	22.00	18.00	609-2937-ND§	1.20	16.69	58.40	10075025-G01-10ULF
	12	26.00	22.00	609-2938-ND§	1.53	20.54	70.42	10075025-G01-12ULF
	14	30.00	26.00	609-2939-ND§	1.73	24.16	82.84	10075025-G01-14ULF
	16	34.00	30.00	609-2940-ND§	2.32	32.22	112.75	10075025-G01-16ULF
	18	38.00	34.00	609-2941-ND§	2.19	31.41	111.46	10075025-G01-18ULF
	20	42.00	38.00	609-2942-ND§	2.62	39.26	136.92	10075025-G01-20ULF
	22	46.00	42.00	609-2943-ND§	2.58	38.26	136.91	10075025-G01-22ULF
	24	50.00	46.00	609-2944-ND§	3.07	47.00	168.22	10075025-G01-24ULF
	26	54.00	50.00	609-2945-ND§	3.32	50.83	176.55	10075025-G01-26ULF
	28	58.00	54.00	609-2946-ND§	3.45	53.21	187.53	10075025-G01-28ULF
	30	62.00	58.00	609-2947-ND§	3.45	53.21	187.54	10075025-G01-30ULF
	32	66.00	62.00	609-2948-ND§	3.67	56.95	206.29	10075025-G01-32ULF
	34	70.00	66.00	609-2949-ND§	3.80	59.02	213.79	10075025-G01-34ULF
	36	74.00	70.00	609-2950-ND§	3.94	61.09	221.29	10075025-G01-36ULF
	38	78.00	74.00	609-2951-ND§	4.07	63.17	228.80	10075025-G01-38ULF
	40	82.00	78.00	609-2952-ND§	4.27	66.27	240.05	10075025-G01-40ULF
	42	86.00	82.00	609-2953-ND§	4.50	69.89	253.17	10075025-G01-42ULF
	44	90.00	86.00	609-2954-ND§	4.54	73.00	259.57	10075025-G01-44ULF
	46	94.00	90.00	609-2955-ND§	4.77	74.50	272.45	10075025-G01-46ULF
	48	98.00	94.00	609-2956-ND§	4.96	77.52	283.49	10075025-G01-48ULF
	50	102.00	98.00	609-2957-ND§	5.19	82.55	301.90	10075025-G01-50ULF

∆ Cut Tape ★ Tape & Reel § Pin Length is 2.0mm ▲ Pin Square is 0.52mm

(Continued)

FCI 2mm Minitek™ Connectors *(Cont.)*

Fig.	No. of Pos.	Dim. (mm)		Digi-Key Part No.	Pricing			FCI Part No.
		A	B		1	25	100	
Dual Row Unshrouded Vertical Headers, SMD								
3	4	4.00	2.00	609-2614-ND	.43	5.16	16.50	57202-G52-02LF
	6	6.00	4.00	609-2615-ND	1.91	26.28	88.39	57202-G52-03LF
	8	8.00	6.00	609-2623-ND	.73	8.99	29.98	57202-G52-04LF
	10	10.00	8.00	609-2610-ND	.86	10.78	36.54	57202-G52-05LF
	12	12.00	10.00	609-2618-ND	.97	12.66	42.75	57202-G52-06LF
	14	14.00	12.00	609-2619-ND	1.05	14.43	48.54	57202-G52-07LF
	16	16.00	14.00	609-2620-ND	1.20	16.50	55.50	57202-G52-08LF
	18	18.00	16.00	609-2621-ND	2.91	42.73	147.85	57202-G52-09LF
	20	20.00	18.00	609-2622-ND	1.43	19.69	67.50	57202-G52-10LF
	22	22.00	20.00	609-2616-ND	3.03	45.41	158.34	57202-G52-11LF
	24	24.00	22.00	609-2626-ND	1.66	22.50	78.73	57202-G52-12LF
	26	26.00	24.00	609-2625-ND	3.32	50.87	182.07	57202-G52-13LF
	28	28.00	26.00	609-2634-ND	3.54	54.19	188.23	57202-G52-14LF
	30	30.00	28.00	609-2628-ND	3.93	59.02	205.80	57202-G52-15LF
	32	32.00	30.00	609-2633-ND	2.04	30.00	103.78	57202-G52-16LF
	34	34.00	32.00	609-2629-ND	3.19	49.21	173.43	57202-G52-17LF
	36	36.00	34.00	609-2630-ND	4.26	65.67	231.44	57202-G52-18LF
	38	38.00	36.00	609-2631-ND	3.47	53.87	195.11	57202-G52-19LF
	40	40.00	38.00	609-2632-ND	4.30	69.05	245.52	57202-G52-20LF
	42	42.00	40.00	609-2613-ND	4.23	65.64	237.75	57202-G52-21LF
	44	44.00	42.00	609-2627-ND	4.27	68.69	244.24	57202-G52-22LF
	46	46.00	44.00	609-2636-ND	4.47	71.89	255.62	57202-G52-23LF
	48	48.00	46.00	609-2639-ND	4.68	75.20	267.39	57202-G52-24LF
	50	50.00	48.00	609-2638-ND	4.86	75.86	277.44	57202-G52-25LF
Dual Row Shrouded Vertical Headers, SMD								
4	10	12.00	8.00	609-2648-1-NDΔ	1.10	15.16	51.00	98424-G52-10ALF
	10	12.00	8.00	609-2648-2-ND★	264.67/600			98424-G52-10ALF
	12	14.00	10.00	609-2642-1-NDΔ	1.22	16.75	56.35	98424-G52-12ALF
	12	14.00	10.00	609-2642-2-ND★	292.42/600			98424-G52-12ALF
	14	16.00	12.00	609-2643-1-NDΔ	1.44	19.87	68.13	98424-G52-14ALF
	14	16.00	12.00	609-2643-2-ND★	352.01/600			98424-G52-14ALF
	16	18.00	14.00	609-2652-1-NDΔ	1.51	20.41	71.42	98424-G52-16ALF
	16	18.00	14.00	609-2652-2-ND★	379.53/600			98424-G52-16ALF
	20	22.00	18.00	609-2644-1-NDΔ	1.79	24.81	86.84	98424-G52-20ALF
	20	22.00	18.00	609-2644-2-ND★	455.51/600			98424-G52-20ALF
	22	24.00	20.00	609-2645-1-NDΔ	3.59	52.87	182.91	98424-G52-22ALF
	22	24.00	20.00	609-2645-2-ND★	951.57/600			98424-G52-22ALF
	26	28.00	24.00	609-2640-1-NDΔ	2.14	30.64	108.73	98424-G52-26ALF
	26	28.00	24.00	609-2640-2-ND★	565.65/600			98424-G52-26ALF
	28	30.00	26.00	609-2647-1-NDΔ	4.35	64.27	228.08	98424-G52-28ALF
	28	30.00	26.00	609-2647-2-ND★	1186.56/600			98424-G52-28ALF
	30	32.00	28.00	609-2646-1-NDΔ	2.33	34.94	121.86	98424-G52-30ALF
	30	32.00	28.00	609-2646-2-ND★	645.12/600			98424-G52-30ALF
	34	36.00	32.00	609-2641-1-NDΔ	2.62	39.24	136.85	98424-G52-34ALF
	34	36.00	32.00	609-2641-2-ND★	724.50/600			98424-G52-34ALF
	40	42.00	38.00	609-2651-1-NDΔ	2.91	44.53	154.67	98424-G52-40ALF
	40	42.00	38.00	609-2651-2-ND★	1087.38/800			98424-G52-40ALF
	44	46.00	42.00	609-2650-1-NDΔ	3.08	47.43	167.16	98424-G52-44ALF
	44	46.00	42.00	609-2650-2-ND★	1169.07/800			98424-G52-44ALF
	50	52.00	48.00	609-2649-1-NDΔ	3.47	53.55	188.74	98424-G52-50ALF
	50	52.00	48.00	609-2649-2-ND★	1007.37/600			98424-G52-50ALF
Dual Row Shrouded Vertical Headers, Surface Mount								
4	4	10.00	6.00	609-2993-1-NDΔ	1.25	17.56	57.47	98424-G52-04ALF
	4	10.00	6.00	609-2993-2-ND★	371.19/750			98424-G52-04ALF
	6	14.00	10.00	609-2994-1-NDΔ	.85	10.67	36.17	98424-G52-06ALF
	6	14.00	10.00	609-2994-2-ND★	226.77/750			98424-G52-06ALF
	8	18.00	14.00	609-2995-1-NDΔ	1.01	13.24	45.75	98424-G52-08ALF
	8	18.00	14.00	609-2995-2-ND★	288.96/750			98424-G52-08ALF
Dual Row Unshrouded Right Angle Headers, Through Hole, Pin-in-Paste								
5	4	4.00	2.00	609-2910-ND▲	1.47	23.45	85.74	10072353-G01-02LF
	6	6.00	4.00	609-2911-ND▲	1.98	27.49	96.22	10072353-G01-03LF
	8	8.00	6.00	609-2912-ND▲	1.75	24.30	85.05	10072353-G01-04ULF
	10	10.00	8.00	609-2913-ND▲	1.27	17.62	61.67	10072353-G01-05ULF
	12	12.00	10.00	609-2914-ND▲	1.57	21.69	74.36	10072353-G01-06ULF
	14	14.00	12.00	609-2915-ND▲	1.80	24.30	85.05	10072353-G01-07ULF
	16	16.00	14.00	609-2916-ND▲	2.45	34.02	119.07	10072353-G01-08ULF
	18	18.00	16.00	609-2917-ND▲	2.49	36.72	130.32	10072353-G01-09ULF
	20	20.00	18.00	609-2918-ND▲	2.76	41.46	144.59	10072353-G01-10ULF
	22	22.00	20.00	609-2919-ND▲	2.94	45.02	161.11	10072353-G01-11ULF
	24	24.00	22.00	609-2920-ND▲	3.24	49.63	172.41	10072353-G01-12ULF
	26	26.00	24.00	609-2921-ND▲	3.39	52.26	184.19	10072353-G01-13ULF
	28	28.00	26.00	609-2922-ND▲	3.65	56.20	198.06	10072353-G01-14ULF
	30	30.00	28.00	609-2923-ND▲	3.52	54.68	198.05	10072353-G01-15ULF
	32	32.00	30.00	609-2924-ND▲	3.88	60.15	217.87	10072353-G01-16ULF
	34	34.00	32.00	609-2925-ND▲	4.02	62.33	225.79	10072353-G01-17ULF
	36	36.00	34.00	609-2926-ND▲	4.16	64.52	233.71	10072353-G01-18ULF
	38	38.00	36.00	609-2927-ND▲	4.30	66.71	241.63	10072353-G01-19ULF
	40	40.00	38.00	609-2928-ND▲	4.51	69.99	253.51	10072353-G01-20ULF
	42	42.00	40.00	609-2929-ND▲	4.35	69.99	248.84	10072353-G01-21ULF
	44	44.00	42.00	609-2930-ND▲	4.59	71.76	262.45	10072353-G01-22ULF
	46	46.00	44.00	609-2931-ND▲	5.04	78.68	287.73	10072353-G01-23ULF
	48	48.00	46.00	609-2932-ND▲	5.15	81.87	299.39	10072353-G01-24ULF
	50	50.00	48.00	609-2933-ND▲	5.48	87.18	318.83	10072353-G01-25ULF
Dual Row Unshrouded Right Angle Headers, Through Hole								
5	4	4.00	2.00	609-2528-ND	1.95	26.80	90.13	98423-G61-02LF
	6	6.00	4.00	609-2529-ND	.99	12.43	39.76	98423-G61-03LF
	8	8.00	6.00	609-2574-ND	2.21	29.89	104.62	98423-G61-04LF
	10	10.00	8.00	609-2531-ND	2.01	29.54	102.21	98423-G61-05LF
	12	12.00	10.00	609-2526-ND	2.90	41.39	143.19	98423-G61-06LF
	14	14.00	12.00	609-2532-ND	2.67	38.16	132.02	98423-G61-07LF
5	16	16.00	14.00	609-2573-ND	3.44	50.58	175.01	98423-G61-08LF
	18	18.00	16.00	609-2534-ND	3.24	47.83	169.73	98423-G61-09LF
	20	20.00	18.00	609-2536-ND	3.74	56.04	195.42	98423-G61-10LF
	22	22.00	20.00	609-2537-ND	3.49	51.78	185.32	98423-G61-11LF
	24	24.00	22.00	609-2538-ND	3.69	56.49	202.16	98423-G61-12LF
	26	26.00	24.00	609-2533-ND	3.99	61.19	212.57	98423-G61-13LF
	28	28.00	26.00	609-2523-ND	4.16	64.17	226.15	98423-G61-14LF
	30	30.00	28.00	609-2524-ND	4.46	68.75	242.30	98423-G61-15LF
	32	32.00	30.00	609-2516-ND	4.76	73.33	258.45	98423-G61-16LF
	34	34.00	32.00	609-2563-ND	5.67	87.94	318.53	98423-G61-17LF
	36	36.00	34.00	609-2511-ND	5.17	80.27	290.76	98423-G61-18LF
	38	38.00	36.00	609-2572-ND	4.91	76.26	276.22	98423-G61-19LF
	40	40.00	38.00	609-2554-ND	6.00	93.11	337.28	98423-G61-20LF
	42	42.00	40.00	609-2553-ND	5.24	84.29	299.68	98423-G61-21LF
	44	44.00	42.00	609-2552-ND	5.49	85.84	313.94	98423-G61-22LF
	46	46.00	44.00	609-2549-ND	5.74	89.74	328.21	98423-G61-23LF
	48	48.00	46.00	609-2545-ND	5.89	93.65	342.48	98423-G61-24LF
	50	50.00	48.00	609-2546-ND	6.13	97.55	356.75	98423-G61-25LF
6	4	4.00	2.00	609-2530-ND	1.44	17.96	57.46	58102-G61-02LF
	8	8.00	6.00	609-2635-ND	.77	9.40	31.32	58102-G61-04LF
	10	10.00	8.00	609-2513-ND	1.97	24.58	83.34	58102-G61-05LF
	12	12.00	10.00	609-2514-ND	.97	12.71	42.94	58102-G61-06LF
	14	14.00	12.00	609-2509-ND	1.26	17.31	58.22	58102-G61-07LF
	16	16.00	14.00	609-2515-ND	1.30	17.91	60.24	58102-G61-08LF
	18	18.00	16.00	609-2564-ND	1.16	15.66	53.68	58102-G61-09LF
	20	20.00	18.00	609-2518-ND	1.43	19.77	67.79	58102-G61-10LF
	22	22.00	20.00	609-2519-ND	1.28	17.27	60.45	58102-G61-11LF
	24	24.00	22.00	609-2512-ND	1.67	22.60	79.08	58102-G61-12LF
	26	26.00	24.00	609-2520-ND	3.99	55.45	194.08	58102-G61-13LF
	28	28.00	26.00	609-2539-ND	1.84	26.36	91.19	58102-G61-14LF
	30	30.00	28.00	609-2525-ND	2.00	29.35	101.53	58102-G61-15LF
	32	32.00	30.00	609-2541-ND	1.46	21.49	74.36	58102-G61-16LF
	34	34.00	32.00	609-2540-ND	1.77	25.32	89.86	58102-G61-17LF
	36	36.00	34.00	609-2559-ND	2.33	34.37	121.97	58102-G61-18LF
	38	38.00	36.00	609-2561-ND	1.62	24.26	84.59	58102-G61-19LF
	40	40.00	38.00	609-2562-ND	2.45	36.71	128.01	58102-G61-20LF
	42	42.00	40.00	609-2521-ND	2.63	39.43	137.51	58102-G61-21LF
	44	44.00	42.00	609-2510-ND	2.20	32.61	116.72	58102-G61-22LF
	46	46.00	44.00	609-2535-ND	2.56	38.07	136.26	58102-G61-23LF
	48	48.00	46.00	609-2522-ND	1.95	29.95	107.20	58102-G61-24LF
	50	50.00	48.00	609-2527-ND	3.03	46.47	161.42	58102-G61-25LF
Dual Row Shrouded Right Angle Headers, Through Hole								
7	4	6.00	2.00	609-2543-ND	1.07	14.68	49.38	98464-G61-04LF
	6	8.00	4.00	609-2548-ND	2.90	34.75	115.84	98464-G61-06LF
	8	10.00	6.00	609-2547-ND	2.41	33.46	117.11	98464-G61-08LF
	10	12.00	8.00	609-2555-ND	2.63	37.64	133.59	98464-G61-10LF
	12	14.00	10.00	609-2551-ND	3.15	45.17	160.30	98464-G61-12LF
	14	16.00	12.00	609-2839-ND	1.80	25.75	91.38	98464-G61-14ULF
	16	18.00	14.00	609-2556-ND	3.68	55.21	192.54	98464-G61-16LF
	18	20.00	16.00	609-2566-ND	4.08	60.52	216.60	98464-G61-18LF
	20	22.00	18.00	609-2568-ND	3.99	61.13	218.79	98464-G61-20LF
	22	24.00	20.00	609-2569-ND	4.25	65.48	230.76	98464-G61-22LF
	24	26.00	22.00	609-2570-ND	4.63	71.43	251.74	98464-G61-24LF
	26	28.00	24.00	609-3096-ND	2.97	45.53	158.15	98464-G61-26ULF
	28	30.00	26.00	609-2571-ND	5.23	81.08	293.69	98464-G61-28LF
	30	32.00	28.00	609-2567-ND	5.60	86.87	314.67	98464-G61-30LF
	32	34.00	30.00	609-2565-ND	5.97	92.66	335.65	98464-G61-32LF
	34	36.00	32.00	609-2557-ND	5.02	80.63	286.69	98464-G61-34LF
	36	38.00	34.00	609-2550-ND	6.49	101.35	370.66	98464-G61-36LF
	38	40.00	36.00	609-2558-ND	6.16	96.29	352.13	98464-G61-38LF
	40	42.00	38.00	609-2517-ND	6.37	101.35	370.66	98464-G61-40LF
	42	44.00	40.00	609-2542-ND	6.69	106.42	389.18	98464-G61-42LF
	44	46.00	42.00	609-2617-ND	6.88	111.49	407.73	98464-G61-44LF
	46	48.00	44.00	609-2586-ND	6.93	115.22	412.94	98464-G61-46LF
	48	50.00	46.00	609-2578-ND	7.23	120.23	430.88	98464-G61-48LF
	50	52.00	48.00	609-2579-ND	6.08	101.12	362.41	98464-G61-50LF
	50	52.00	48.00	609-2836-ND	2.80	46.49	166.63	98464-G61-50ULF
Dual Row Shrouded Right Angle Headers, Through Hole, Pin-in-Paste								
7	4	10.00	6.00	609-2958-ND	1.47	23.35	85.38	10072354-G01-04LF
	6	14.00	10.00	609-2959-ND	2.16	30.05	105.16	10072354-G01-06LF
	8	18.00	14.00	609-2960-ND	1.84	26.30	91.00	10072354-G01-08ULF
	10	22.00	18.00	609-2961-ND	.94	18.85	65.22	10072354-G01-10ULF
	12	26.00	22.00	609-2962-ND	1.68	23.21	79.56	10072354-G01-12ULF
	14	30.00	26.00	609-2963-ND	5.62	76.00	266.00	10072354-G01-14ULF
	16	34.00	30.00	609-2964-ND	2.55	36.41	125.96	10072354-G01-16ULF
	18	38.00	34.00	609-2965-ND	2.62	39.30	137.04	10072354-G01-18ULF
	20	42.00	38.00	609-2966-ND	2.91	43.23	154.72	10072354-G01-20ULF
	22	46.00	42.00	609-2967-ND	3.14	48.17	167.33	10072354-G01-22ULF
	24	50.00	46.00	609-2968-ND	3.35	51.71	182.25	10072354-G01-24ULF
	26	54.00	50.00	609-2969-ND	3.35	51.71	182.25	10072354-G01-26ULF
	28	58.00	54.00	609-2970-ND	3.77	58.50	211.92	10072354-G01-28ULF
	30	62.00	58.00	609-2971-ND	3.96	61.43	222.51	10072354-G01-30ULF
	32	66.00	62.00	609-2972-ND	4.15	64.35	233.11	10072354-G01-32ULF
	34	70.00	66.00	609-2973-ND	4.30	66.69	241.58	10072354-G01-34ULF
	36	74.00	70.00	609-2974-ND	4.30	66.70	241.59	10072354-G01-36ULF
	38	78.00	74.00	609-2975-ND	4.44	71.37	253.78	10072354-G01-38ULF
	40	82.00	78.00	609-2976-ND	4.66	74.88	266.26	10072354-G01-40ULF
	42	86.00	82.00	609-2977-ND	4.91	76.79	280.82	10072354-G01-42ULF
	44	90.00	86.00	609-2978-ND	5.04	80.20	293.31	10072354-G01-44ULF
	46	94.00	90.00	609-2979-ND	5.29	84.18	307.87	10072354-G01-46ULF
	48	98.00	94.00	609-2980-ND	5.20	84.18	307.87	10072354-G01-48ULF
	50	102.00	98.00	609-2981-ND	5.54	92.22	330.49	10072354-G01-50ULF

Δ Cut Tape ★ Tape & Reel § Pin Length is 2.0mm ▲ Pin Square is 0.52mm *(Continued)*

Fig.	No. of Pos.	Dim. (mm)		Digi-Key Part No.	Pricing			FCI Part No.
		A	B		1	25	100	
Dual Row Vertical Receptacles, Through Hole								
8	4	4.80	2.00	609-2670-ND	.99	12.71	42.92	63453-104LF
	6	6.80	4.00	609-2656-ND	1.05	13.81	47.69	63453-106LF
	8	8.80	6.00	609-2780-ND	1.36	18.26	62.60	63453-108LF
	10	10.80	8.00	609-2657-ND	1.55	20.92	73.22	63453-110LF
	12	12.80	10.00	609-2658-ND	1.88	26.09	91.32	63453-112LF
	14	14.80	12.00	609-2659-ND	1.99	29.29	101.33	63453-114LF
	16	16.80	14.00	609-2660-ND	2.30	33.91	120.34	63453-116LF
	18	18.80	16.00	609-2663-ND	2.45	36.71	128.01	63453-118LF
	20	20.80	18.00	609-2661-ND	2.68	39.75	142.26	63453-120LF
	22	22.80	20.00	609-2662-ND	2.85	43.72	151.87	63453-122LF
	24	24.80	22.00	609-2664-ND	3.11	47.70	165.69	63453-124LF
	26	26.80	24.00	609-2665-ND	3.39	52.28	184.26	63453-126LF
	28	28.80	26.00	609-2666-ND	3.51	54.18	190.95	63453-128LF
	30	30.80	28.00	609-2667-ND	3.64	56.48	204.58	63453-130LF
	32	32.80	30.00	609-2668-ND	3.88	60.25	218.24	63453-132LF
	34	34.80	32.00	609-2655-ND	4.13	64.01	231.87	63453-134LF
	36	36.80	34.00	609-2687-ND	4.37	67.77	245.49	63453-136LF
	38	38.80	36.00	609-2681-ND	4.45	71.54	254.37	63453-138LF
	40	40.80	38.00	609-2679-ND	4.87	76.09	278.26	63453-140LF
	42	42.80	40.00	609-2686-ND	4.92	76.88	281.15	63453-142LF
	44	44.80	42.00	609-2691-ND	5.74	88.48	311.84	63453-144LF
	46	46.80	44.00	609-2725-ND	5.29	84.19	307.90	63453-146LF
	48	48.80	46.00	609-2674-ND	5.42	87.85	321.30	63453-148LF
	50	50.80	48.00	609-2675-ND	5.44	90.47	324.24	63453-150LF
Dual Row Vertical Receptacles, Top Entry, Low Profile, SMD								
9	4	3.92	2.00	609-2702-ND	1.44	19.96	68.42	55508-104LF
	6	5.92	4.00	609-2703-ND	1.57	21.27	74.45	55508-106LF
	8	7.92	6.00	609-2704-ND	1.99	29.20	101.03	55508-108LF
	10	9.92	8.00	609-2705-ND	2.31	34.05	120.84	55508-110LF
	12	11.92	10.00	609-2706-ND	2.14	30.72	109.02	55508-112LF
	14	13.92	12.00	609-2699-ND	2.42	36.30	126.58	55508-114LF
	16	15.92	14.00	609-2718-ND	2.61	38.79	138.82	55508-116LF
	18	17.92	16.00	609-2708-ND	2.18	31.31	111.12	55508-118LF
	20	19.92	18.00	609-2710-ND	2.36	34.79	123.47	55508-120LF
	22	21.92	20.00	609-2724-ND	2.55	38.27	133.47	55508-122LF
	24	23.92	22.00	609-2709-ND	2.74	40.68	145.61	55508-124LF
	26	25.92	24.00	609-2711-ND	2.55	39.01	135.51	55508-126LF
	28	27.92	26.00	609-2712-ND	4.09	62.61	217.47	55508-128LF
	30	29.92	28.00	609-2713-ND	3.34	51.46	181.35	55508-130LF
	32	31.92	30.00	609-2714-ND	3.43	52.82	186.15	55508-132LF
	34	33.92	32.00	609-2715-ND	3.64	56.12	197.78	55508-134LF
	36	35.92	34.00	609-2689-ND	3.73	57.80	209.37	55508-136LF
	38	37.92	36.00	609-2716-ND	3.93	61.02	221.03	55508-138LF
	40	39.92	38.00	609-2717-ND	4.14	64.23	232.67	55508-140LF
	42	41.92	40.00	609-2719-ND	4.35	67.44	244.29	55508-142LF
	44	43.92	42.00	609-2720-ND	4.40	70.66	251.23	55508-144LF
	46	45.92	44.00	609-2721-ND	4.60	71.82	262.64	55508-146LF
	48	47.92	46.00	609-2722-ND	4.80	74.94	274.06	55508-148LF
	50	49.92	48.00	609-2723-ND	5.19	81.13	296.69	55508-150LF
10	4	3.92	2.00	609-2676-ND	1.28	17.29	59.29	55510-104LF
	6	5.92	4.00	609-2677-ND	1.39	19.24	65.97	55510-106LF
	8	7.92	6.00	609-2727-ND	1.79	24.81	86.82	55510-108LF
	10	9.92	8.00	609-2678-ND	2.00	29.42	101.78	55510-110LF
	12	11.92	10.00	609-2673-ND	1.65	22.25	77.88	55510-112LF
	14	13.92	12.00	609-2680-ND	1.80	24.98	87.43	55510-114LF
	16	15.92	14.00	609-2682-ND	1.94	28.55	98.77	55510-116LF
	18	17.92	16.00	609-2683-ND	2.18	31.31	111.12	55510-118LF
	20	19.92	18.00	609-2684-ND	2.36	34.79	123.47	55510-120LF
	22	21.92	20.00	609-2685-ND	2.55	38.27	133.47	55510-122LF
	24	23.92	22.00	609-2669-ND	2.74	40.68	145.61	55510-124LF
	26	25.92	24.00	609-2671-ND	2.99	45.79	159.08	55510-126LF
	28	27.92	26.00	609-2672-ND	3.10	47.46	164.87	55510-128LF
	30	29.92	28.00	609-2688-ND	3.21	49.52	174.51	55510-130LF
	32	31.92	30.00	609-2700-ND	3.43	52.82	186.15	55510-132LF
	34	33.92	32.00	609-2693-ND	3.64	56.12	197.78	55510-134LF
	36	35.92	34.00	609-2694-ND	3.73	57.80	209.37	55510-136LF
	38	37.92	36.00	609-2695-ND	3.93	61.02	221.03	55510-138LF
	40	39.92	38.00	609-2696-ND	4.14	64.23	232.67	55510-140LF
	42	41.92	40.00	609-2697-ND	4.35	67.44	244.29	55510-142LF
	44	43.92	42.00	609-2698-ND	4.40	70.66	251.23	55510-144LF
	46	45.92	44.00	609-2707-ND	4.60	71.82	262.64	55510-146LF
	48	47.92	46.00	609-2692-ND	4.80	74.94	274.06	55510-148LF
	50	49.92	48.00	609-2701-ND	5.19	81.13	296.69	55510-150LF
Dual Row Vertical Receptacles, Bottom Entry, Low Profile, SMD								
11	4	3.92	2.00	609-2690-ND	1.44	19.96	68.42	91596-104LF
	6	5.92	4.00	609-2726-ND	1.38	18.61	63.81	91596-106LF
	8	7.92	6.00	609-2765-ND	1.70	23.62	82.67	91596-108LF
	10	9.92	8.00	609-2760-ND	2.01	29.54	102.19	91596-110LF
	14	13.92	12.00	609-2779-ND	2.65	39.28	140.59	91596-114LF
	16	15.92	14.00	609-2737-ND	2.93	44.89	155.93	91596-116LF
	18	17.92	16.00	609-2744-ND	3.19	49.17	173.29	91596-118LF
	20	19.92	18.00	609-2730-ND	3.54	54.64	192.55	91596-120LF
	22	21.92	20.00	609-2731-ND	3.92	60.77	220.13	91596-122LF
	24	23.92	22.00	609-2732-ND	4.11	63.79	231.07	91596-124LF
	26	25.92	24.00	609-2755-ND	4.30	69.11	245.71	91596-126LF
	28	27.92	26.00	609-2734-ND	4.63	72.35	264.61	91596-128LF
	30	29.92	28.00	609-2733-ND	4.96	77.52	283.50	91596-130LF
Dual Row Housings without Polarization Key								
12	4	4.39	2.01	609-2751-ND	1.01	13.33	45.03	69307-004LF
	6	6.40	3.99	609-2752-ND	.96	12.22	41.44	69307-006LF
12	8	8.41	5.99	609-2753-ND	.95	12.40	41.90	69307-008LF
	10	10.39	8.00	609-2747-ND	1.01	13.39	45.24	69307-010LF
	12	12.40	10.00	609-2754-ND	1.14	15.68	52.73	69307-012LF
	14	14.40	11.99	609-2750-ND	1.23	17.33	56.70	69307-014LF
	16	16.41	14.00	609-2756-ND	.79	10.03	32.60	69307-016LF
	18	18.39	16.00	609-2757-ND	1.43	20.08	68.85	69307-018LF
	20	20.40	18.01	609-2758-ND	1.53	20.63	72.19	69307-020LF
	22	22.40	19.99	609-2742-ND	1.63	22.00	77.00	69307-022LF
	24	24.41	22.00	609-2745-ND	1.72	23.25	81.38	69307-024LF
	26	26.39	24.00	609-2762-ND	1.76	24.38	85.31	69307-026LF
	28	28.40	26.01	609-2792-ND	1.93	26.64	91.35	69307-028LF
	30	30.40	27.99	609-2774-ND	1.84	26.25	90.83	69307-030LF
	32	32.41	30.00	609-2781-ND	2.11	28.35	97.20	69307-032LF
	34	34.40	32.00	609-2767-ND	1.88	27.63	95.58	69307-034LF
	36	36.40	34.01	609-2768-ND	1.96	28.80	99.65	69307-036LF
	38	38.40	35.99	609-2769-ND	2.21	30.92	106.02	69307-038LF
	40	40.41	38.00	609-2770-ND	2.13	30.47	108.13	69307-040LF
	42	42.39	40.01	609-2782-ND	2.39	32.29	113.02	69307-042LF
	44	44.40	42.01	609-2771-ND	2.18	32.18	114.18	69307-044LF
	46	46.41	43.99	609-2766-ND	1.73	24.04	84.12	69307-046LF
	48	48.41	46.00	609-2773-ND	2.53	35.10	122.85	69307-048LF
	50	50.39	48.01	609-2775-ND	2.34	35.04	122.20	69307-050LF
Dual Row Housings with Polarization Key and Latching								
13	4	4.40	2.00	609-2776-ND	1.01	13.33	45.03	90311-004LF
	6	6.40	4.00	609-2777-ND	.88	11.21	38.01	90311-006LF
	8	8.40	6.00	609-2778-ND	.95	12.40	41.90	90311-008LF
	10	10.40	8.00	609-2772-ND	1.01	13.39	45.24	90311-010LF
	12	12.40	10.00	609-2797-ND	1.14	15.68	52.73	90311-012LF
	14	14.40	12.00	609-2743-ND	1.23	17.33	56.70	90311-014LF
	16	16.40	14.00	609-2798-ND	1.33	18.38	63.00	90311-016LF
	18	18.40	16.00	609-2789-ND	1.43	20.08	68.85	90311-018LF
	20	20.40	18.00	609-2796-ND	1.53	20.63	72.19	90311-020LF
	22	22.40	20.00	609-2764-ND	1.63	22.00	77.00	90311-022LF
	24	24.40	22.00	609-2763-ND	1.67	23.25	81.38	90311-024LF
	26	26.40	24.00	609-2783-ND	1.76	24.38	85.31	90311-026LF
	28	28.40	26.00	609-2785-ND	1.78	25.38	87.80	90311-028LF
	30	30.40	28.00	609-2786-ND	1.84	26.25	90.83	90311-030LF
	32	32.40	30.00	609-2787-ND	2.05	28.35	97.20	90311-032LF
	34	34.40	32.00	609-2746-ND	1.88	27.63	95.58	90311-034LF
	36	36.40	34.00	609-2788-ND	2.13	28.80	100.80	90311-036LF
	38	38.40	36.00	609-2790-ND	2.18	29.45	103.08	90311-038LF
	40	40.40	38.00	609-2784-ND	2.13	30.47	108.13	90311-040LF
	42	42.40	40.00	609-2791-ND	2.32	32.29	113.02	90311-042LF
	44	44.40	42.00	609-2793-ND	2.18	32.18	114.18	90311-044LF
	46	46.40	44.00	609-2794-ND	1.85	26.44	91.47	90311-046LF
	48	48.40	46.00	609-2795-ND	1.93	27.59	95.46	90311-048LF
	50	50.40	48.00	609-2799-ND	2.34	35.04	122.20	90311-050LF
14	6	6.54	4.00	609-3097-ND	.91	12.51	42.09	10073599-006LF
	8	8.54	6.00	609-3098-ND	.91	12.51	42.09	10073599-008LF
	10	10.54	8.00	609-3099-ND	.84	10.97	37.05	10073599-010LF
	12	12.54	10.00	609-3100-ND	.91	12.51	42.09	10073599-012LF
	16	16.54	14.00	609-3101-ND	1.08	14.51	49.73	10073599-016LF
	20	20.54	18.00	609-3102-ND	1.24	17.06	58.50	10073599-020LF
IDC Sockets with Polarization Key and Latching, Gold								
15	10	14.60	8.00	609-2729-ND	1.36	18.32	62.82	89947-710LF
	12	16.60	10.00	609-2736-ND	1.34	18.01	61.74	89947-712LF
	14	18.60	12.00	609-2738-ND	1.55	21.01	73.54	89947-714LF
	16	20.60	14.00	609-2739-ND	1.73	24.01	84.04	89947-716LF
	20	24.60	18.00	609-2740-ND	2.30	34.03	120.77	89947-720LF
	22	26.60	20.00	609-2741-ND	2.49	37.35	130.25	89947-722LF
	26	30.60	24.00	609-2735-ND	2.54	38.04	132.67	89947-726LF
	28	32.60	26.00	609-2761-ND	3.46	53.76	194.72	89947-728LF
	30	34.60	28.00	609-2759-ND	2.79	42.77	153.09	89947-730LF
	34	38.60	32.00	609-2728-ND	3.06	47.21	166.37	89947-734LF
IDC Sockets with Polarization Key, Gold								
15	34	32.00	38.60	609-2855-ND	3.23	49.78	175.44	89947-334LF
	40	38.00	44.60	609-2856-ND	3.80	58.56	206.39	89947-340LF
	44	42.00	48.60	609-2857-ND	4.04	62.68	227.03	89947-344LF
	50	48.00	54.6	609-2858-ND	4.59	71.22	257.98	89947-350LF
Strain Relief								
—	10	—	—	609-2982-ND	.86	10.73	34.34	10073978-010LF
	12	—	—	609-2983-ND	.93	11.14	37.12	10073978-012LF
	14	—	—	609-2984-ND	1.00	11.97	39.90	10073978-014LF
	16	—	—	609-2985-ND	1.05	12.80	42.68	10073978-016LF
	20	—	—	609-2986-ND	1.15	13.87	47.05	10073978-020LF
	26	—	—	609-2987-ND	1.24	15.47	52.47	10073978-026LF
	30	—	—	609-2988-ND	1.27	16.27	55.19	10073978-030LF
	34	—	—	609-2989-ND	1.34	16.71	56.43	10073978-034LF
	40	—	—	609-2990-ND	1.37	17.49	59.07	10073978-040LF
	44	—	—	609-2991-ND	1.40	18.27	61.71	10073978-044LF
	50	—	—	609-2992-ND	1.46	20.03	67.38	10073978-050LF
Shunt								
16	2	Gold		609-2637-ND	.43	4.77	14.63	86730-101LF
Female Crimp Terminal								
—	26-30AWG			609-2653-1-NDΔ	.33	3.92	12.15	77138-101LF
				609-2653-2-ND★	1512.00/20,000			77138-101LF
Hand Crimp Tool								
—	26-30AWG			609-2508-ND	851.51/1			HT-151

Δ Cut Tape ★ Tape & Reel § Pin Length is 2.0mm ▲ Pin Square is 0.52mm

SULLINS
CONNECTOR SOLUTIONS

NEW! 1.27mm Connectors

RoHS COMPLIANT

SPECIFICATIONS: **Current Rating**: 1A **Contact Resistance:** 20mΩ maximum **Dielectric Withstanding**: 500VAC **Operating Temperature:** -40°C ~ 105°C **Contact Material**: Headers: Brass, Receptacles: Phosphor Bronze **Insulator Material:** L.C.P., Nylon 9T **Contact Finish:** Gold Flash overall

Fig. 1

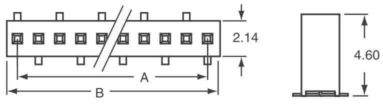

Fig. 2

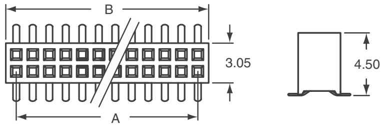

Fig. 3

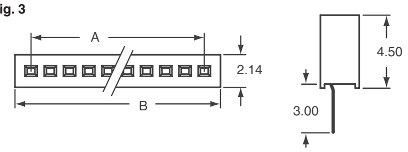

Fig. 4

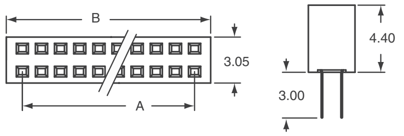

Fig. 5

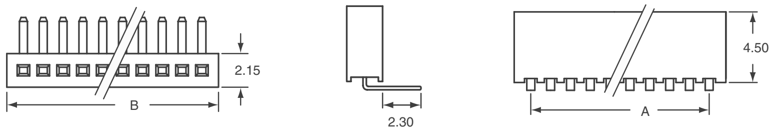

Fig. 6

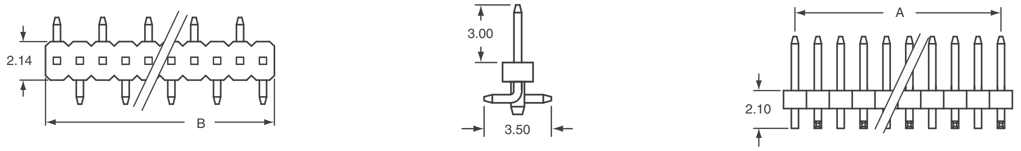

Fig. 7

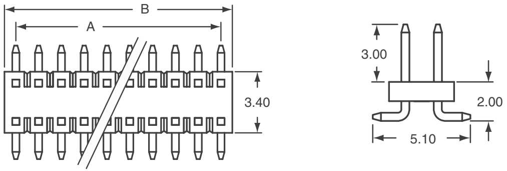

Fig. 8

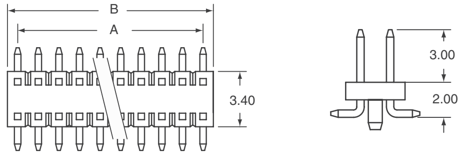

Fig. 9

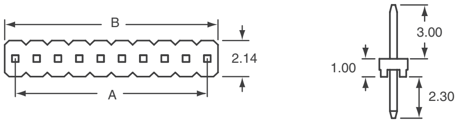

Fig. 10

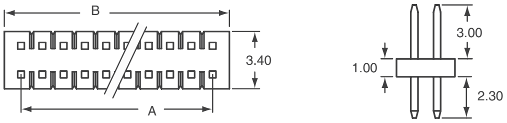

Fig. 11

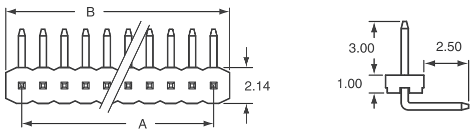

Fig. 12

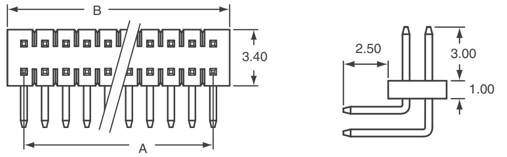

Fig.	Cir-cuits	Dimension (mm)		Digi-Key	Price Each			Sullins
		A	B	Part No.	1	10	100	Part No.
Female Header, Single Row, SMT, No Post								
1	3	2.54	4.19	S9005E-03-ND	.89	.80	.66	LPPB031NFSC-RC
	4	3.81	5.46	S9005E-04-ND	.91	.82	.67	LPPB041NFSC-RC
	5	5.08	6.73	S9005E-05-ND	1.01	.91	.75	LPPB051NFSC-RC
	6	6.35	8.00	S9005E-06-ND	1.29	1.16	.96	LPPB061NFSC-RC
	7	7.62	9.27	S9005E-07-ND	1.33	1.19	.98	LPPB071NFSC-RC
	8	8.89	10.54	S9005E-08-ND	1.37	1.23	1.01	LPPB081NFSC-RC
	9	10.16	11.81	S9005E-09-ND	1.40	1.26	1.04	LPPB091NFSC-RC
	10	11.43	13.08	S9005E-10-ND	1.45	1.31	1.08	LPPB101NFSC-RC
	11	12.70	14.35	S9005E-11-ND	1.48	1.33	1.10	LPPB111NFSC-RC
	12	13.97	15.62	S9005E-12-ND	1.52	1.36	1.12	LPPB121NFSC-RC
	13	15.24	16.89	S9005E-13-ND	1.55	1.39	1.15	LPPB131NFSC-RC
	50	62.23	63.88	S9005E-50-ND	4.20	3.76	3.10	LPPB501NFSC-RC
Female Header, Dual Row, SMT, No Post								
2	4	1.27	2.94	S9006E-02-ND	1.43	1.28	1.06	LPPB022NFSS-RC
	6	2.54	4.21	S9006E-03-ND	1.78	1.60	1.32	LPPB032NFSS-RC
	8	3.81	5.48	S9006E-04-ND	1.81	1.63	1.34	LPPB042NFSS-RC
	10	5.08	6.75	S9006E-05-ND	2.03	1.82	1.50	LPPB052NFSS-RC
	12	6.35	8.02	S9006E-06-ND	2.58	2.32	1.91	LPPB062NFSS-RC
2	14	7.62	9.29	S9006E-07-ND	2.65	2.38	1.96	LPPB072NFSS-RC
	16	8.89	10.56	S9006E-08-ND	2.74	2.45	2.02	LPPB082NFSS-RC
	18	10.16	11.83	S9006E-09-ND	2.80	2.51	2.07	LPPB092NFSS-RC
	20	11.43	13.10	S9006E-10-ND	2.90	2.60	2.14	LPPB102NFSS-RC
	22	12.70	14.37	S9006E-11-ND	2.97	2.66	2.20	LPPB112NFSS-RC
	24	13.97	15.64	S9006E-12-ND	3.04	2.72	2.24	LPPB122NFSS-RC
	26	15.24	16.91	S9006E-13-ND	3.11	2.78	2.29	LPPB132NFSS-RC
	100	62.23	63.90	S9006E-50-ND	8.40	7.52	6.19	LPPB502NFSS-RC
Female Header, Dual Row, SMT, Post								
2	6	2.54	4.21	S9007E-03-ND	1.78	1.60	1.32	LPPB032NFSP-RC
	8	3.81	5.48	S9007E-04-ND	1.81	1.63	1.34	LPPB042NFSP-RC
	10	5.08	6.75	S9007E-05-ND	2.03	1.82	1.50	LPPB052NFSP-RC
	12	6.35	8.02	S9007E-06-ND	2.58	2.32	1.91	LPPB062NFSP-RC
	14	7.62	9.29	S9007E-07-ND	2.65	2.38	1.96	LPPB072NFSP-RC
	16	8.89	10.56	S9007E-08-ND	2.74	2.45	2.02	LPPB082NFSP-RC
	18	10.16	11.83	S9007E-09-ND	2.80	2.51	2.07	LPPB092NFSP-RC
	20	11.43	13.10	S9007E-10-ND	2.90	2.60	2.14	LPPB102NFSP-RC
	22	12.70	14.37	S9007E-11-ND	2.97	2.66	2.20	LPPB112NFSP-RC
	24	13.97	15.64	S9007E-12-ND	3.04	2.72	2.24	LPPB122NFSP-RC
	26	15.24	16.91	S9007E-13-ND	3.11	2.78	2.29	LPPB132NFSP-RC
	100	62.23	63.90	S9007E-50-ND	8.40	7.52	6.19	LPPB502NFSP-RC

(Continued)

NEW! 1.27mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dimension (mm)		Digi-Key Part No.	Price Each			Sullins Part No.
		A	B		1	10	100	
Female Header, Single Row, Straight Thru Hole								
3	3	2.54	4.19	S9008E-03-ND	.71	.64	.53	LPPB031NFFN-RC
	4	3.81	5.46	S9008E-04-ND	.76	.68	.56	LPPB041NFFN-RC
	5	5.08	6.73	S9008E-05-ND	.86	.77	.63	LPPB051NFFN-RC
	6	6.35	8.00	S9008E-06-ND	.96	.86	.71	LPPB061NFFN-RC
	7	7.62	9.27	S9008E-07-ND	1.06	.95	.78	LPPB071NFFN-RC
	8	8.89	10.54	S9008E-08-ND	1.17	1.05	.86	LPPB081NFFN-RC
	9	10.16	11.81	S9008E-09-ND	1.25	1.12	.93	LPPB091NFFN-RC
	10	11.43	13.08	S9008E-10-ND	1.33	1.19	.98	LPPB101NFFN-RC
	11	12.70	14.35	S9008E-11-ND	1.40	1.26	1.04	LPPB111NFFN-RC
	12	13.97	15.62	S9008E-12-ND	1.48	1.33	1.09	LPPB121NFFN-RC
	13	15.24	16.89	S9008E-13-ND	1.50	1.35	1.11	LPPB131NFFN-RC
	50	62.23	63.88	S9008E-50-ND	4.32	3.87	3.19	LPPB501NFFN-RC
Female Header, Dual Row, Straight Thru Hole								
4	4	1.27	2.94	S9009E-02-ND	.91	.82	.67	LPPB022CFFN-RC
	6	2.54	4.21	S9009E-03-ND	1.10	.99	.82	LPPB032CFFN-RC
	8	3.81	5.48	S9009E-04-ND	1.18	1.06	.88	LPPB042CFFN-RC
	10	5.08	6.75	S9009E-05-ND	1.36	1.22	1.01	LPPB052CFFN-RC
	12	6.35	8.02	S9009E-06-ND	1.51	1.36	1.12	LPPB062CFFN-RC
	14	7.62	9.29	S9009E-07-ND	1.66	1.49	1.23	LPPB072CFFN-RC
	16	8.89	10.56	S9009E-08-ND	1.74	1.56	1.29	LPPB082CFFN-RC
	18	10.16	11.83	S9009E-09-ND	1.92	1.73	1.42	LPPB092CFFN-RC
	20	11.43	13.10	S9009E-10-ND	1.96	1.76	1.45	LPPB102CFFN-RC
	22	12.70	14.37	S9009E-11-ND	2.07	1.86	1.53	LPPB112CFFN-RC
	24	13.97	15.64	S9009E-12-ND	2.16	1.93	1.59	LPPB122CFFN-RC
	26	15.24	16.91	S9009E-13-ND	2.27	2.03	1.67	LPPB132CFFN-RC
	100	62.23	63.90	S9009E-50-ND	5.04	4.51	3.72	LPPB502CFFN-RC
Female Header, Single Row, Right Angle Thru Hole								
5	3	2.54	4.18	S9010E-03-ND	.71	.64	.53	LPPB031NGCN-RC
	4	3.81	5.45	S9010E-04-ND	.80	.72	.59	LPPB041NGCN-RC
	5	5.08	6.72	S9010E-05-ND	.94	.85	.70	LPPB051NGCN-RC
	6	6.35	7.99	S9010E-06-ND	1.08	.97	.80	LPPB061NGCN-RC
	7	7.62	9.26	S9010E-07-ND	1.16	1.04	.86	LPPB071NGCN-RC
	8	8.89	10.53	S9010E-08-ND	1.24	1.12	.92	LPPB081NGCN-RC
	9	10.16	11.80	S9010E-09-ND	1.29	1.15	.95	LPPB091NGCN-RC
	10	11.43	13.07	S9010E-10-ND	1.32	1.18	.98	LPPB101NGCN-RC
	11	12.70	14.34	S9010E-11-ND	1.36	1.22	1.01	LPPB111NGCN-RC
	12	13.97	15.61	S9010E-12-ND	1.40	1.26	1.04	LPPB121NGCN-RC
	13	15.24	16.88	S9010E-13-ND	1.48	1.33	1.10	LPPB131NGCN-RC
	50	62.23	63.87	S9010E-50-ND	4.45	3.99	3.28	LPPB501NGCN-RC
Male Header, Single Row, SMT, No Post								
6	3	2.54	3.81	S9011E-03-ND	.70	.63	.52	GRPB031VWTC-RC
	4	3.81	5.08	S9011E-04-ND	.74	.66	.55	GRPB041VWTC-RC
	5	5.08	6.35	S9011E-05-ND	.84	.76	.62	GRPB051VWTC-RC
	6	6.35	7.62	S9011E-06-ND	.94	.85	.70	GRPB061VWTC-RC
	7	7.62	8.89	S9011E-07-ND	1.04	.94	.77	GRPB071VWTC-RC
	8	8.89	10.16	S9011E-08-ND	1.18	1.06	.88	GRPB081VWTC-RC
	9	10.16	11.43	S9011E-09-ND	1.33	1.19	.98	GRPB091VWTC-RC
	10	11.43	12.70	S9011E-10-ND	1.34	1.21	.99	GRPB101VWTC-RC
	11	12.70	13.97	S9011E-11-ND	1.47	1.32	1.09	GRPB111VWTC-RC
	12	13.97	15.24	S9011E-12-ND	1.60	1.43	1.18	GRPB121VWTC-RC
	13	15.24	16.51	S9011E-13-ND	1.73	1.55	1.28	GRPB131VWTC-RC
	50	62.23	63.50	S9011E-50-ND	6.46	5.78	4.76	GRPB501VWTC-RC
Male Header, Dual Row, SMT, No Post								
7	2	0.00	1.27	S9012E-01-ND	.76	.68	.56	GRPB012VWQS-RC
	4	1.27	2.54	S9012E-02-ND	.87	.78	.65	GRPB022VWQS-RC
	6	2.54	3.81	S9012E-03-ND	1.07	.97	.80	GRPB032VWQS-RC
	8	3.81	5.08	S9012E-04-ND	1.25	1.12	.93	GRPB042VWQS-RC
	10	5.08	6.35	S9012E-05-ND	1.44	1.29	1.06	GRPB052VWQS-RC
	12	6.35	7.62	S9012E-06-ND	1.60	1.43	1.18	GRPB062VWQS-RC
	14	7.62	8.89	S9012E-07-ND	1.76	1.58	1.30	GRPB072VWQS-RC
	16	8.89	10.16	S9012E-08-ND	1.83	1.64	1.35	GRPB082VWQS-RC
	18	10.16	11.43	S9012E-09-ND	2.03	1.82	1.50	GRPB092VWQS-RC
	20	11.43	12.70	S9012E-10-ND	2.07	1.86	1.53	GRPB102VWQS-RC
	22	12.70	13.97	S9012E-11-ND	2.19	1.97	1.62	GRPB112VWQS-RC
	24	13.97	15.24	S9012E-12-ND	2.27	2.04	1.68	GRPB122VWQS-RC
	26	15.24	16.51	S9012E-13-ND	2.39	2.15	1.77	GRPB132VWQS-RC
	100	62.23	63.50	S9012E-50-ND	5.32	4.76	3.92	GRPB502VWQS-RC

Fig.	Cir-cuits	Dimension (mm)		Digi-Key Part No.	Price Each			Sullins Part No.
		A	B		1	10	100	
Male Header, Dual Row, SMT, Post								
8	6	2.54	3.81	S9013E-03-ND	1.07	.97	.80	GRPB032VWQP-RC
	8	3.81	5.08	S9013E-04-ND	1.25	1.12	.93	GRPB042VWQP-RC
	10	5.08	6.35	S9013E-05-ND	1.44	1.29	1.06	GRPB052VWQP-RC
	12	6.35	7.62	S9013E-06-ND	1.60	1.43	1.18	GRPB062VWQP-RC
	14	7.62	8.89	S9013E-07-ND	1.76	1.58	1.30	GRPB072VWQP-RC
	16	8.89	10.16	S9013E-08-ND	1.83	1.64	1.35	GRPB082VWQP-RC
	18	10.16	11.43	S9013E-09-ND	2.03	1.82	1.50	GRPB092VWQP-RC
	20	11.43	12.70	S9013E-10-ND	2.07	1.86	1.53	GRPB102VWQP-RC
	22	12.70	13.97	S9013E-11-ND	2.19	1.97	1.62	GRPB112VWQP-RC
	24	13.97	15.24	S9013E-12-ND	2.27	2.04	1.68	GRPB122VWQP-RC
	26	15.24	16.51	S9013E-13-ND	2.39	2.15	1.77	GRPB132VWQP-RC
	100	62.23	63.50	S9013E-50-ND	5.32	4.76	3.92	GRPB502VWQP-RC
Male Header, Single Row, Straight Thru Hole								
9	2	1.27	2.54	S9014E-02-ND	.62	.56	.46	GRPB021VWVN-RC
	3	2.54	3.81	S9014E-03-ND	.64	.58	.48	GRPB031VWVN-RC
	4	3.81	5.08	S9014E-04-ND	.68	.61	.51	GRPB041VWVN-RC
	5	5.08	6.35	S9014E-05-ND	.77	.69	.57	GRPB051VWVN-RC
	6	6.35	7.62	S9014E-06-ND	.86	.77	.64	GRPB061VWVN-RC
	7	7.62	8.89	S9014E-07-ND	.95	.86	.71	GRPB071VWVN-RC
	8	8.89	10.16	S9014E-08-ND	1.05	.94	.78	GRPB081VWVN-RC
	9	10.16	11.43	S9014E-09-ND	1.13	1.01	.83	GRPB091VWVN-RC
	10	11.43	12.70	S9014E-10-ND	1.19	1.07	.88	GRPB101VWVN-RC
	11	12.70	13.97	S9014E-11-ND	1.26	1.13	.94	GRPB111VWVN-RC
	12	13.97	15.24	S9014E-12-ND	1.33	1.20	.99	GRPB121VWVN-RC
	13	15.24	16.51	S9014E-13-ND	1.35	1.22	1.00	GRPB131VWVN-RC
	50	62.23	63.50	S9014E-50-ND	3.89	3.49	2.87	GRPB501VWVN-RC
Male Header, Dual Row, Straight Thru Hole								
10	2	0.00	1.27	S9015E-01-ND	.60	.55	.45	GRPB012VWVN-RC
	4	1.27	2.54	S9015E-02-ND	.68	.61	.51	GRPB022VWVN-RC
	6	2.54	3.81	S9015E-03-ND	.86	.78	.64	GRPB032VWVN-RC
	8	3.81	5.08	S9015E-04-ND	1.05	.94	.78	GRPB042VWVN-RC
	10	5.08	6.35	S9015E-05-ND	1.11	1.00	.82	GRPB052VWVN-RC
	12	6.35	7.62	S9015E-06-ND	1.24	1.12	.92	GRPB062VWVN-RC
	14	7.62	8.89	S9015E-07-ND	1.29	1.15	.95	GRPB072VWVN-RC
	16	8.89	10.16	S9015E-08-ND	1.32	1.18	.98	GRPB082VWVN-RC
	18	10.16	11.43	S9015E-09-ND	1.40	1.26	1.04	GRPB092VWVN-RC
	20	11.43	12.70	S9015E-10-ND	1.50	1.35	1.11	GRPB102VWVN-RC
	22	12.70	13.97	S9015E-11-ND	1.62	1.46	1.20	GRPB112VWVN-RC
	24	13.97	15.24	S9015E-12-ND	1.74	1.56	1.29	GRPB122VWVN-RC
	26	15.24	16.51	S9015E-13-ND	1.92	1.73	1.42	GRPB132VWVN-RC
	100	62.23	63.50	S9015E-50-ND	7.81	6.99	5.76	GRPB502VWVN-RC
Male Header, Single Row, Right Angle Thru Hole								
11	2	1.27	2.54	S9016E-02-ND	.72	.64	.53	GRPB021VWCN-RC
	3	2.54	3.81	S9016E-03-ND	.74	.66	.55	GRPB031VWCN-RC
	4	3.81	5.08	S9016E-04-ND	.78	.70	.58	GRPB041VWCN-RC
	5	5.08	6.35	S9016E-05-ND	.89	.80	.66	GRPB051VWCN-RC
	6	6.35	7.62	S9016E-06-ND	.99	.89	.74	GRPB061VWCN-RC
	7	7.62	8.89	S9016E-07-ND	1.09	.98	.81	GRPB071VWCN-RC
	8	8.89	10.16	S9016E-08-ND	1.21	1.09	.90	GRPB081VWCN-RC
	9	10.16	11.43	S9016E-09-ND	1.29	1.16	.96	GRPB091VWCN-RC
	10	11.43	12.70	S9016E-10-ND	1.37	1.23	1.02	GRPB101VWCN-RC
	11	12.70	13.97	S9016E-11-ND	1.45	1.30	1.07	GRPB111VWCN-RC
	12	13.97	15.24	S9016E-12-ND	1.53	1.37	1.13	GRPB121VWCN-RC
	13	15.24	16.51	S9016E-13-ND	1.56	1.40	1.15	GRPB131VWCN-RC
	50	62.23	63.50	S9016E-50-ND	4.47	4.01	3.30	GRPB501VWCN-RC
Male Header, Dual Row, Right Angle Thru Hole								
12	2	0.00	1.27	S9017E-01-ND	.42	.38	.31	GRPB012MWCN-RC
	4	1.27	2.54	S9017E-02-ND	.44	.39	.33	GRPB022MWCN-RC
	6	2.54	3.81	S9017E-03-ND	.48	.43	.36	GRPB032MWCN-RC
	8	3.81	5.08	S9017E-04-ND	.56	.51	.42	GRPB042MWCN-RC
	10	5.08	6.35	S9017E-05-ND	.60	.54	.44	GRPB052MWCN-RC
	12	6.35	7.62	S9017E-06-ND	.72	.65	.54	GRPB062MWCN-RC
	14	7.62	8.89	S9017E-07-ND	.84	.76	.62	GRPB072MWCN-RC
	16	8.89	10.16	S9017E-08-ND	.96	.86	.71	GRPB082MWCN-RC
	18	10.16	11.43	S9017E-09-ND	1.08	.97	.80	GRPB092MWCN-RC
	20	11.43	12.70	S9017E-10-ND	1.20	1.08	.89	GRPB102MWCN-RC
	22	12.70	13.97	S9017E-11-ND	1.32	1.18	.98	GRPB112MWCN-RC
	24	13.97	15.24	S9017E-12-ND	1.44	1.29	1.06	GRPB122MWCN-RC
	26	15.24	16.51	S9017E-13-ND	1.56	1.40	1.16	GRPB132MWCN-RC
	100	62.23	63.50	S9017E-50-ND	5.99	5.37	4.42	GRPB502MWCN-RC

SULLINS CONNECTOR SOLUTIONS

2mm Connectors

SPECIFICATIONS: **Current Rating**: 1A **Contact Resistance:** 20mΩ maximum **Dielectric Withstanding**: 500VAC **Operating Temperature:** -40°C ~ 105°C **Contact Material**: Headers: Brass, Receptacles: Phosphor Bronze. **Insulator Material:** Polyester, UL 94V-0 **Contact Finish:** Selective Plating, Gold/Tin

Fig. 1

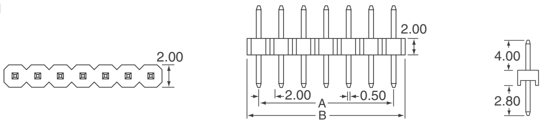

Fig. 2

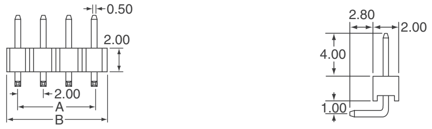

Fig. 3

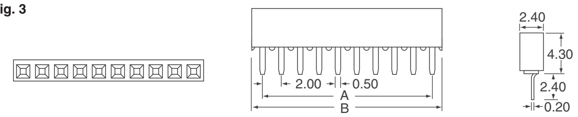

Fig. 4

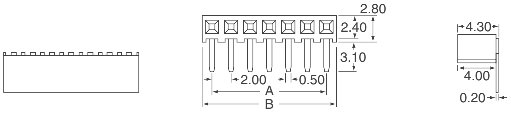

Fig. 5

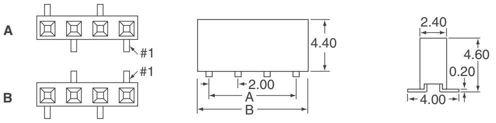

Fig. 6

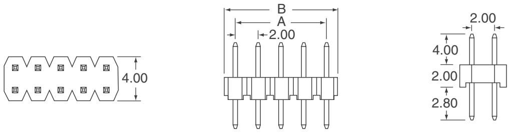

Fig. 7

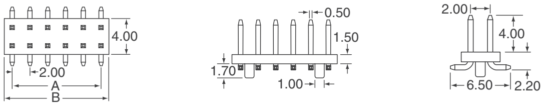

Fig. 8

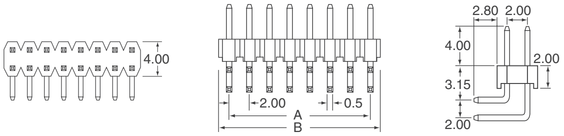

Fig. 9

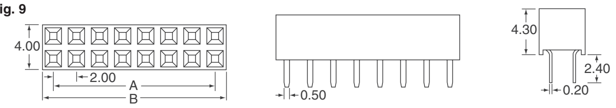

Fig. 10

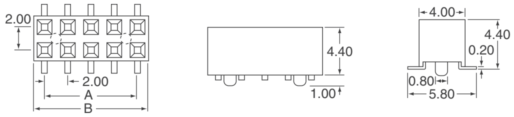

Fig. 11

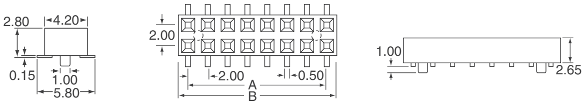

Fig. 12

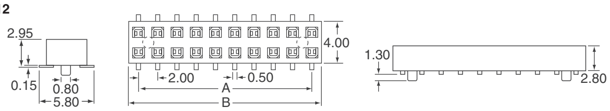

Fig. 13

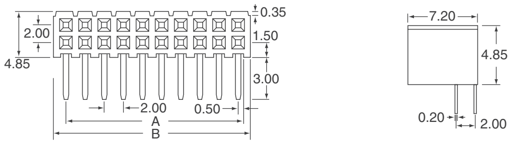

Fig. 14

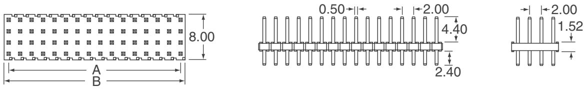

Fig. 15

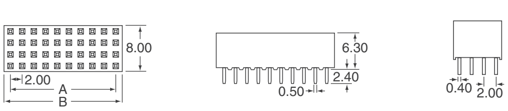

Fig. 16

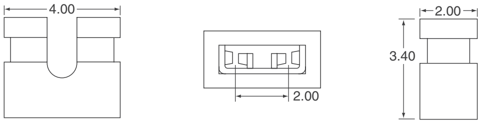

Fig.	Cir-cuits	Dimension (mm) A	Dimension (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Sullins Part No.
Single Row Headers, Straight — RoHS Compliant								
1	2	2.00	4.00	S5800-02-ND	.39	.34	.29	PRPN021PAEN-RC
	3	4.00	6.00	S5800-03-ND	.41	.36	.31	PRPN031PAEN-RC
	4	6.00	8.00	S5800-04-ND	.43	.38	.32	PRPN041PAEN-RC
	5	8.00	10.00	S5800-05-ND	.45	.39	.33	PRPN051PAEN-RC
	6	10.00	12.00	S5800-06-ND	.47	.41	.35	PRPN061PAEN-RC
	7	12.00	14.00	S5800-07-ND	.49	.43	.36	PRPN071PAEN-RC
	8	14.00	16.00	S5800-08-ND	.51	.45	.38	PRPN081PAEN-RC
	9	16.00	18.00	S5800-09-ND	.53	.46	.39	PRPN091PAEN-RC
	10	18.00	20.00	S5800-10-ND	.55	.48	.41	PRPN101PAEN-RC
	11	20.00	22.00	S5800-11-ND	.57	.50	.42	PRPN111PAEN-RC
	12	22.00	24.00	S5800-12-ND	.59	.52	.44	PRPN121PAEN-RC
	13	24.00	26.00	S5800-13-ND	.61	.53	.45	PRPN131PAEN-RC
	14	26.00	28.00	S5800-14-ND	.63	.55	.47	PRPN141PAEN-RC
	15	28.00	30.00	S5800-15-ND	.65	.57	.48	PRPN151PAEN-RC
	16	30.00	32.00	S5800-16-ND	.67	.59	.50	PRPN161PAEN-RC
	17	32.00	34.00	S5800-17-ND	.69	.60	.51	PRPN171PAEN-RC
	18	34.00	36.00	S5800-18-ND	.71	.62	.53	PRPN181PAEN-RC
	19	36.00	38.00	S5800-19-ND	.73	.64	.54	PRPN191PAEN-RC
	20	38.00	40.00	S5800-20-ND	.75	.65	.55	PRPN201PAEN-RC
	21	40.00	42.00	S5800-21-ND	.77	.67	.57	PRPN211PAEN-RC
	22	42.00	44.00	S5800-22-ND	.79	.69	.58	PRPN221PAEN-RC
	23	44.00	46.00	S5800-23-ND	.81	.71	.60	PRPN231PAEN-RC
	24	46.00	48.00	S5800-24-ND	.83	.72	.61	PRPN241PAEN-RC
	25	48.00	50.00	S5800-25-ND	.85	.74	.63	PRPN251PAEN-RC
	26	50.00	52.00	S5800-26-ND	.87	.76	.64	PRPN261PAEN-RC
	27	52.00	54.00	S5800-27-ND	.89	.78	.66	PRPN271PAEN-RC
	28	54.00	56.00	S5800-28-ND	.91	.79	.67	PRPN281PAEN-RC
	29	56.00	58.00	S5800-29-ND	.93	.81	.69	PRPN291PAEN-RC
	30	58.00	60.00	S5800-30-ND	.95	.83	.70	PRPN301PAEN-RC
	31	60.00	62.00	S5800-31-ND	.97	.85	.72	PRPN311PAEN-RC
	32	62.00	64.00	S5800-32-ND	.99	.86	.73	PRPN321PAEN-RC
	33	64.00	66.00	S5800-33-ND	1.01	.88	.75	PRPN331PAEN-RC
	34	66.00	68.00	S5800-34-ND	1.03	.90	.76	PRPN341PAEN-RC
	35	68.00	70.00	S5800-35-ND	1.05	.91	.77	PRPN351PAEN-RC
	36	70.00	72.00	S5800-36-ND	1.07	.93	.79	PRPN361PAEN-RC
	37	72.00	74.00	S5800-37-ND	1.09	.95	.80	PRPN371PAEN-RC
	38	74.00	76.00	S5800-38-ND	1.11	.97	.82	PRPN381PAEN-RC
	39	76.00	78.00	S5800-39-ND	1.13	.98	.83	PRPN391PAEN-RC
	40	78.00	80.00	S5800-40-ND	1.26	1.10	.93	PRPN401PAEN-RC
Single Row Headers, Right Angle — RoHS Compliant								
2	2	2.00	4.00	S5802-02-ND	.33	.29	.25	PRPN021PARN-RC
	3	4.00	6.00	S5802-03-ND	.36	.32	.27	PRPN031PARN-RC
	4	6.00	8.00	S5802-04-ND	.39	.34	.29	PRPN041PARN-RC
	5	8.00	10.00	S5802-05-ND	.42	.37	.31	PRPN051PARN-RC
	6	10.00	12.00	S5802-06-ND	.45	.39	.33	PRPN061PARN-RC
	7	12.00	14.00	S5802-07-ND	.48	.42	.36	PRPN071PARN-RC
	8	14.00	16.00	S5802-08-ND	.51	.45	.38	PRPN081PARN-RC
	9	16.00	18.00	S5802-09-ND	.54	.47	.40	PRPN091PARN-RC
	10	18.00	20.00	S5802-10-ND	.57	.50	.42	PRPN101PARN-RC
	11	20.00	22.00	S5802-11-ND	.60	.52	.44	PRPN111PARN-RC
	12	22.00	24.00	S5802-12-ND	.63	.55	.47	PRPN121PARN-RC
	13	24.00	26.00	S5802-13-ND	.66	.58	.49	PRPN131PARN-RC
	14	26.00	28.00	S5802-14-ND	.69	.60	.51	PRPN141PARN-RC
	15	28.00	30.00	S5802-15-ND	.72	.63	.53	PRPN151PARN-RC

(Continued)

SULLINS
CONNECTOR SOLUTIONS

2mm Connectors *(Cont.)*

Fig.	Cir- cuits	Dimension (mm)		Digi-Key Part No.	Price Each			Sullins Part No.
		A	B		1	10	100	
2	16	30.00	32.00	S5802-16-ND	.75	.65	.55	PRPN161PARN-RC
	17	32.00	34.00	S5802-17-ND	.78	.68	.58	PRPN171PARN-RC
	18	34.00	36.00	S5802-18-ND	.81	.71	.60	PRPN181PARN-RC
	19	36.00	38.00	S5802-19-ND	.84	.73	.62	PRPN191PARN-RC
	20	38.00	40.00	S5802-20-ND	.87	.76	.64	PRPN201PARN-RC
	21	40.00	42.00	S5802-21-ND	.90	.78	.66	PRPN211PARN-RC
	22	42.00	44.00	S5802-22-ND	.93	.81	.69	PRPN221PARN-RC
	23	44.00	46.00	S5802-23-ND	.96	.84	.71	PRPN231PARN-RC
	24	46.00	48.00	S5802-24-ND	.99	.86	.73	PRPN241PARN-RC
	25	48.00	50.00	S5802-25-ND	1.02	.89	.75	PRPN251PARN-RC
	26	50.00	52.00	S5802-26-ND	1.05	.91	.77	PRPN261PARN-RC
	27	52.00	54.00	S5802-27-ND	1.08	.94	.80	PRPN271PARN-RC
	28	54.00	56.00	S5802-28-ND	1.11	.97	.82	PRPN281PARN-RC
	29	56.00	58.00	S5802-29-ND	1.14	.99	.84	PRPN291PARN-RC
	30	58.00	60.00	S5802-30-ND	1.17	1.02	.86	PRPN301PARN-RC
	31	60.00	62.00	S5802-31-ND	1.20	1.04	.88	PRPN311PARN-RC
	32	62.00	64.00	S5802-32-ND	1.23	1.07	.91	PRPN321PARN-RC
	33	64.00	66.00	S5802-33-ND	1.26	1.10	.93	PRPN331PARN-RC
	34	66.00	68.00	S5802-34-ND	1.29	1.12	.95	PRPN341PARN-RC
	35	68.00	70.00	S5802-35-ND	1.32	1.15	.97	PRPN351PARN-RC
	36	70.00	72.00	S5802-36-ND	1.35	1.17	.99	PRPN361PARN-RC
	37	72.00	74.00	S5802-37-ND	1.38	1.20	1.02	PRPN371PARN-RC
	38	74.00	76.00	S5802-38-ND	1.41	1.23	1.04	PRPN381PARN-RC
	39	76.00	78.00	S5802-39-ND	1.44	1.25	1.06	PRPN391PARN-RC
	40	78.00	80.00	S5802-40-ND	1.83	1.59	1.35	PRPN401PARN-RC
Single Row Receptacles, Straight — RoHS Compliant								
3	3	4.00	6.50	S5751-03-ND	.67	.56	.36	PPPN031BFCN-RC
	4	6.00	8.50	S5751-04-ND	.73	.61	.39	PPPN041BFCN-RC
	5	8.00	10.50	S5751-05-ND	.85	.71	.45	PPPN051BFCN-RC
	6	10.00	12.50	S5751-06-ND	.89	.74	.47	PPPN061BFCN-RC
	7	12.00	14.50	S5751-07-ND	.96	.80	.51	PPPN071BFCN-RC
	8	14.00	16.50	S5751-08-ND	.97	.81	.52	PPPN081BFCN-RC
	9	16.00	18.50	S5751-09-ND	1.10	.92	.59	PPPN091BFCN-RC
	10	18.00	20.50	S5751-10-ND	1.05	.87	.56	PPPN101BFCN-RC
	11	20.00	22.50	S5751-11-ND	1.21	1.01	.64	PPPN111BFCN-RC
	12	22.00	24.50	S5751-12-ND	1.25	1.04	.67	PPPN121BFCN-RC
	15	28.00	30.50	S5751-15-ND	1.57	1.30	.83	PPPN151BFCN-RC
	18	34.00	36.50	S5751-18-ND	1.87	1.56	.99	PPPN181BFCN-RC
	22	42.00	44.50	S5751-22-ND	2.41	2.00	1.28	PPPN221BFCN-RC
	25	48.00	50.50	S5751-25-ND	2.74	2.28	1.46	PPPN251BFCN-RC
	30	58.00	60.50	S5751-30-ND	3.29	2.73	1.74	PPPN301BFCN-RC
	36	70.00	72.50	S5751-36-ND	3.95	3.28	2.09	PPPN361BFCN-RC
	40	78.00	80.50	S5751-40-ND	4.38	3.64	2.32	PPPN401BFCN-RC
Single Row Receptacles, Right Angle — RoHS Compliant								
4	3	4.00	6.50	S5752-03-ND	1.00	.84	.54	PPPN031FGGN-RC
	4	6.00	8.50	S5752-04-ND	1.24	1.03	.66	PPPN041FGGN-RC
	5	8.00	10.50	S5752-05-ND	1.29	1.07	.69	PPPN051FGGN-RC
	6	10.00	12.50	S5752-06-ND	1.38	1.15	.74	PPPN061FGGN-RC
	7	12.00	14.50	S5752-07-ND	1.44	1.19	.76	PPPN071FGGN-RC
	8	14.00	16.50	S5752-08-ND	1.65	1.37	.88	PPPN081FGGN-RC
	9	16.00	18.50	S5752-09-ND	1.85	1.54	.98	PPPN091FGGN-RC
	10	18.00	20.50	S5752-10-ND	1.73	1.44	.92	PPPN101FGGN-RC
	12	22.00	24.50	S5752-12-ND	2.08	1.73	1.10	PPPN121FGGN-RC
	15	28.00	30.50	S5752-15-ND	2.60	2.16	1.38	PPPN151FGGN-RC
	17	32.00	34.50	S5752-17-ND	2.95	2.45	1.56	PPPN171FGGN-RC
Single Row Receptacles, SMT Contacts (Pin 1 on Left Hand Side)								
5A	5	8.00	10.50	S2101-05-ND	.77	.64	.41	PPPN051BFLC
	25	48.00	50.50	S2101-25-ND	2.80	2.32	1.48	PPPN251BFLC
Single Row Receptacles, SMT Contacts (Pin 1 on Left Hand Side) — RoHS Compliant								
5A	3	4.00	6.50	S5901-03-ND	.79	.66	.42	NPPN031BFLC-RC
	4	6.00	8.50	S5901-04-ND	1.01	.84	.54	NPPN041BFLC-RC
	5	8.00	10.50	S5901-05-ND	1.19	.99	.63	NPPN051BFLC-RC
	6	10.00	12.50	S5901-06-ND	1.33	1.11	.71	NPPN061BFLC-RC
	7	12.00	14.50	S5901-07-ND	1.54	1.28	.82	NPPN071BFLC-RC
	8	14.00	16.50	S5901-08-ND	1.67	1.38	.89	NPPN081BFLC-RC
	9	16.00	18.50	S5901-09-ND	1.67	1.38	.89	NPPN091BFLC-RC
	10	18.00	20.50	S5901-10-ND	1.67	1.38	.89	NPPN101BFLC-RC
	12	22.00	24.50	S5901-12-ND	1.80	1.50	.96	NPPN121BFLC-RC
	15	28.00	30.50	S5901-15-ND	2.25	1.87	1.19	NPPN151BFLC-RC
	18	34.00	36.50	S5901-18-ND	2.70	2.24	1.43	NPPN181BFLC-RC
	20	38.00	40.50	S5901-20-ND	3.00	2.49	1.59	NPPN201BFLC-RC
	22	42.00	44.50	S5901-22-ND	3.16	2.63	1.68	NPPN221BFLC-RC
	25	48.00	50.50	S5901-25-ND	3.59	2.98	1.90	NPPN251BFLC-RC
Single Row Receptacles, SMT Contacts (Pin 1 on Right Hand Side)								
5B	7	12.00	14.50	S2102-07-ND	.91	.76	.49	PPPN071BFLD
	13	24.00	26.50	S2102-13-ND	1.47	1.22	.78	PPPN131BFLD
	15	28.00	30.50	S2102-15-ND	1.68	1.40	.89	PPPN151BFLD
	25	48.00	50.50	S2102-25-ND	2.80	2.32	1.48	PPPN251BFLD
Single Row Receptacles, SMT Contacts (Pin 1 on Right Hand Side) — RoHS Compliant								
5B	3	4.00	6.50	S5902-03-ND	.79	.66	.42	NPPN031BFLD-RC
	4	6.00	8.50	S5902-04-ND	1.01	.84	.54	NPPN041BFLD-RC
	5	8.00	10.50	S5902-05-ND	1.19	.99	.63	NPPN051BFLD-RC
	6	10.00	12.50	S5902-06-ND	1.33	1.11	.71	NPPN061BFLD-RC
	7	12.00	14.50	S5902-07-ND	1.54	1.28	.82	NPPN071BFLD-RC
	8	14.00	16.50	S5902-08-ND	1.67	1.38	.89	NPPN081BFLD-RC
	9	16.00	18.50	S5902-09-ND	1.67	1.38	.89	NPPN091BFLD-RC
	10	18.00	20.50	S5902-10-ND	1.67	1.38	.89	NPPN101BFLD-RC
	12	22.00	24.50	S5902-12-ND	1.80	1.50	.96	NPPN121BFLD-RC
	13	24.00	26.50	S5902-13-ND	1.95	1.62	1.04	NPPN131BFLD-RC
	15	28.00	30.50	S5902-15-ND	2.25	1.87	1.19	NPPN151BFLD-RC
	18	34.00	36.50	S5902-18-ND	2.70	2.24	1.43	NPPN181BFLD-RC
	20	38.00	40.50	S5902-20-ND	3.00	2.49	1.59	NPPN201BFLD-RC
	22	42.00	44.50	S5902-22-ND	3.16	2.63	1.68	NPPN221BFLD-RC
	25	48.00	50.50	S5902-25-ND	3.59	2.98	1.90	NPPN251BFLD-RC

Fig.	Cir- cuits	Dimension (mm)		Digi-Key Part No.	Price Each			Sullins Part No.
		A	B		1	10	100	
Dual Row Headers, Straight — RoHS Compliant								
6	4	2.00	4.00	S5801-02-ND	.75	.65	.55	PRPN022PAEN-RC
	6	4.00	6.00	S5801-03-ND	.79	.69	.58	PRPN032PAEN-RC
	8	6.00	8.00	S5801-04-ND	.83	.72	.61	PRPN042PAEN-RC
	10	8.00	10.00	S5801-05-ND	.87	.76	.64	PRPN052PAEN-RC
	12	10.00	12.00	S5801-06-ND	.91	.79	.67	PRPN062PAEN-RC
	14	12.00	14.00	S5801-07-ND	.95	.83	.70	PRPN072PAEN-RC
	16	14.00	16.00	S5801-08-ND	.99	.86	.73	PRPN082PAEN-RC
	18	16.00	18.00	S5801-09-ND	1.03	.90	.76	PRPN092PAEN-RC
	20	18.00	20.00	S5801-10-ND	1.07	.93	.79	PRPN102PAEN-RC
	22	20.00	22.00	S5801-11-ND	1.11	.97	.82	PRPN112PAEN-RC
	24	22.00	24.00	S5801-12-ND	1.15	1.00	.85	PRPN122PAEN-RC
	26	24.00	26.00	S5801-13-ND	1.19	1.04	.88	PRPN132PAEN-RC
	28	26.00	28.00	S5801-14-ND	1.23	1.07	.91	PRPN142PAEN-RC
	30	28.00	30.00	S5801-15-ND	1.27	1.11	.94	PRPN152PAEN-RC
	32	30.00	32.00	S5801-16-ND	1.31	1.14	.97	PRPN162PAEN-RC
	36	34.00	36.00	S5801-18-ND	1.39	1.21	1.02	PRPN182PAEN-RC
	38	36.00	38.00	S5801-19-ND	1.43	1.24	1.05	PRPN192PAEN-RC
	40	38.00	40.00	S5801-20-ND	1.47	1.28	1.08	PRPN202PAEN-RC
	42	40.00	42.00	S5801-21-ND	1.51	1.31	1.11	PRPN212PAEN-RC
	44	42.00	44.00	S5801-22-ND	1.55	1.35	1.14	PRPN222PAEN-RC
	46	44.00	46.00	S5801-23-ND	1.59	1.38	1.17	PRPN232PAEN-RC
	48	46.00	48.00	S5801-24-ND	1.63	1.42	1.20	PRPN242PAEN-RC
	50	48.00	50.00	S5801-25-ND	1.67	1.45	1.23	PRPN252PAEN-RC
	60	58.00	60.00	S5801-30-ND	1.87	1.63	1.38	PRPN302PAEN-RC
	72	70.00	72.00	S5801-36-ND	2.11	1.83	1.55	PRPN362PAEN-RC
	80	78.00	80.00	S5801-40-ND	2.67	2.32	1.96	PRPN402PAEN-RC
Dual Row Headers, SMT, with Locating Peg — RoHS Compliant								
7	4	2.00	4.00	S6008-02-ND	.75	.62	.40	NRPN022MAMP-RC
	6	4.00	6.00	S6008-03-ND	1.12	.94	.60	NRPN032MAMP-RC
	8	6.00	8.00	S6008-04-ND	1.50	1.25	.80	NRPN042MAMP-RC
	10	8.00	10.00	S6008-05-ND	1.68	1.40	.89	NRPN052MAMP-RC
	12	10.00	12.00	S6008-06-ND	2.03	1.68	1.08	NRPN062MAMP-RC
	14	12.00	14.00	S6008-07-ND	2.15	1.78	1.14	NRPN072MAMP-RC
	16	14.00	16.00	S6008-08-ND	2.37	1.96	1.26	NRPN082MAMP-RC
	18	16.00	18.00	S6008-09-ND	2.53	2.10	1.34	NRPN092MAMP-RC
	20	18.00	20.00	S6008-10-ND	2.63	2.19	1.40	NRPN102MAMP-RC
	24	22.00	24.00	S6008-12-ND	3.38	2.80	1.79	NRPN122MAMP-RC
	30	28.00	30.00	S6008-15-ND	4.22	3.50	2.23	NRPN152MAMP-RC
	36	34.00	36.00	S6008-18-ND	4.75	3.94	2.52	NRPN182MAMP-RC
	44	42.00	44.00	S6008-22-ND	5.80	4.81	3.07	NRPN222MAMP-RC
	50	48.00	50.00	S6008-25-ND	6.59	5.47	3.49	NRPN252MAMP-RC
Dual Row Headers, SMT, without Locating Peg								
7	18	16.00	18.00	S2209-09-ND	1.86	1.54	.99	PRPN092MAMS
	28	26.00	28.00	S2209-14-ND	2.73	2.27	1.45	PRPN142MAMS
	32	30.00	32.00	S2209-16-ND	3.12	2.59	1.65	PRPN162MAMS
	36	34.00	36.00	S2209-18-ND	3.50	2.90	1.85	PRPN182MAMS
	38	36.00	38.00	S2209-19-ND	3.71	3.08	1.97	PRPN192MAMS
	42	40.00	42.00	S2209-21-ND	4.10	3.40	2.17	PRPN212MAMS
	48	46.00	48.00	S2209-24-ND	4.69	3.89	2.48	PRPN242MAMS
Dual Row Headers, SMT, without Locating Peg — RoHS Compliant								
7	4	2.00	4.00	S6009-02-ND	.76	.63	.40	NRPM022MAMS-RC
	6	4.00	6.00	S6009-03-ND	1.12	.94	.60	NRPN032MAMS-RC
	8	6.00	8.00	S6009-04-ND	1.10	.92	.59	NRPN042MAMS-RC
	10	8.00	10.00	S6009-05-ND	1.68	1.40	.89	NRPN052MAMS-RC
	12	10.00	12.00	S6009-06-ND	2.03	1.68	1.08	NRPN062MAMS-RC
	14	12.00	14.00	S6009-07-ND	2.15	1.78	1.14	NRPN072MAMS-RC
	16	14.00	16.00	S6009-08-ND	2.37	1.96	1.26	NRPN082MAMS-RC
	18	16.00	18.00	S6009-09-ND	2.53	2.10	1.34	NRPN092MAMS-RC
	20	18.00	20.00	S6009-10-ND	2.64	2.19	1.40	NRPN102MAMS-RC
	22	20.00	22.00	S6009-11-ND	3.09	2.57	1.64	NRPN112MAMS-RC
	24	22.00	24.00	S6009-12-ND	3.38	2.80	1.79	NRPN122MAMS-RC
	26	24.00	26.00	S6009-13-ND	3.65	3.03	1.94	NRPN132MAMS-RC
	28	26.00	28.00	S6009-14-ND	3.94	3.27	2.09	NRPN142MAMS-RC
	30	28.00	30.00	S6009-15-ND	4.22	3.50	2.23	NRPN152MAMS-RC
	32	30.00	32.00	S6009-16-ND	4.50	3.73	2.38	NRPN162MAMS-RC
	34	32.00	34.00	S6009-17-ND	4.78	3.96	2.53	NRPN172MAMS-RC
	36	34.00	36.00	S6009-18-ND	4.75	3.94	2.52	NRPN182MAMS-RC
	38	36.00	38.00	S6009-19-ND	5.35	4.44	2.83	NRPN192MAMS-RC
	40	38.00	40.00	S6009-20-ND	5.27	4.37	2.79	NRPN202MAMS-RC
	42	40.00	42.00	S6009-21-ND	5.91	4.90	3.13	NRPN212MAMS-RC
	44	42.00	44.00	S6009-22-ND	5.80	4.81	3.07	NRPN222MAMS-RC
	46	44.00	46.00	S6009-23-ND	6.47	5.37	3.43	NRPN232MAMS-RC
	48	46.00	48.00	S6009-24-ND	6.75	5.60	3.57	NRPN242MAMS-RC
	50	48.00	50.00	S6009-25-ND	6.59	5.47	3.49	NRPN252MAMS-RC
Dual Row Headers, Right Angle — RoHS Compliant								
8	4	2.00	4.00	S5803-02-ND	1.15	1.00	.85	PRPN022PARN-RC
	6	4.00	6.00	S5803-03-ND	1.21	1.05	.89	PRPN032PARN-RC
	8	6.00	8.00	S5803-04-ND	1.27	1.11	.94	PRPN042PARN-RC
	10	8.00	10.00	S5803-05-ND	1.33	1.16	.98	PRPN052PARN-RC
	12	10.00	12.00	S5803-06-ND	1.39	1.21	1.02	PRPN062PARN-RC
	14	12.00	14.00	S5803-07-ND	1.45	1.26	1.07	PRPN072PARN-RC
	16	14.00	16.00	S5803-08-ND	1.51	1.31	1.11	PRPN082PARN-RC
	18	16.00	18.00	S5803-09-ND	1.57	1.37	1.16	PRPN092PARN-RC
	20	18.00	20.00	S5803-10-ND	1.63	1.42	1.20	PRPN102PARN-RC
	22	20.00	22.00	S5803-11-ND	1.69	1.47	1.24	PRPN112PARN-RC
	24	22.00	24.00	S5803-12-ND	1.75	1.52	1.29	PRPN122PARN-RC
	26	24.00	26.00	S5803-13-ND	1.81	1.57	1.33	PRPN132PARN-RC
	28	26.00	28.00	S5803-14-ND	1.87	1.63	1.38	PRPN142PARN-RC
	30	28.00	30.00	S5803-15-ND	1.93	1.68	1.42	PRPN152PARN-RC
	32	30.00	32.00	S5803-16-ND	1.99	1.73	1.46	PRPN162PARN-RC
	34	32.00	34.00	S5803-17-ND	2.05	1.78	1.51	PRPN172PARN-RC
	36	34.00	36.00	S5803-18-ND	2.11	1.83	1.55	PRPN182PARN-RC
	38	36.00	38.00	S5803-19-ND	2.17	1.89	1.60	PRPN192PARN-RC
	40	38.00	40.00	S5803-20-ND	2.23	1.94	1.64	PRPN202PARN-RC
	42	40.00	42.00	S5803-21-ND	2.29	1.99	1.68	PRPN212PARN-RC
	44	42.00	44.00	S5803-22-ND	2.35	2.04	1.73	PRPN222PARN-RC

(Continued)

SULLINS 2mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dimension (mm)		Digi-Key Part No.	Price Each			Sullins Part No.
		A	B		1	10	100	
8	46	44.00	46.00	S5803-23-ND	2.41	2.09	1.77	PRPN232PARN-RC
	48	46.00	48. 00	S5803-24-ND	2.47	2.15	1.82	PRPN242PARN-RC
	50	48.00	50.00	S5803-25-ND	2.53	2.20	1.86	PRPN252PARN-RC
	60	58.00	60.00	S5803-30-ND	2.83	2.46	2.08	PRPN302PARN-RC
	80	78.00	80.00	S5803-40-ND	4.00	3.47	2.94	PRPN402PARN-RC
Dual Row Receptacles, Straight								
9	12	10.00	12.50	S2201-06-ND	1.26	1.05	.67	PPPN062AFCN
Dual Row Receptacles, Straight — RoHS Compliant								
9	4	2.00	4.50	S5750-02-ND	1.01	.84	.54	PPPN022AFCN-RC
	6	4.00	6.50	S5750-03-ND	1.10	.91	.58	PPPN032AFCN-RC
	8	6.00	8.50	S5750-04-ND	1.44	1.19	.76	PPPN042AFCN-RC
	10	8.00	10.50	S5750-05-ND	1.51	1.25	.80	PPPN052AFCN-RC
	12	10.00	12.50	S5750-06-ND	1.62	1.35	.86	PPPN062AFCN-RC
	14	12.00	14.50	S5750-07-ND	1.80	1.49	.95	PPPN072AFCN-RC
	16	14.00	16.50	S5750-08-ND	1.98	1.64	1.05	PPPN082AFCN-RC
	18	16.00	18.50	S5750-09-ND	2.01	1.67	1.07	PPPN092AFCN-RC
	20	18.00	20.50	S5750-10-ND	2.02	1.68	1.07	PPPN102AFCN-RC
	22	20.00	22.50	S5750-11-ND	2.36	1.96	1.25	PPPN112AFCN-RC
	24	22.00	24.50	S5750-12-ND	2.57	2.13	1.36	PPPN122AFCN-RC
	26	24.00	26.50	S5750-13-ND	2.78	2.31	1.48	PPPN132AFCN-RC
	30	28.00	30.50	S5750-15-ND	2.96	2.46	1.57	PPPN152AFCN-RC
	34	32.00	34.50	S5750-17-ND	3.48	2.88	1.84	PPPN172AFCN-RC
	40	38.00	40.50	S5750-20-ND	3.77	3.13	2.00	PPPN202AFCN-RC
	44	42.00	44.50	S5750-22-ND	4.28	3.55	2.27	PPPN222AFCN-RC
	50	48.00	50.50	S5750-25-ND	4.87	4.04	2.58	PPPN252AFCN-RC
	60	58.00	60.50	S5750-30-ND	5.84	4.84	3.09	PPPN302AFCN-RC
	80	78.00	80.50	S5750-40-ND	7.59	6.29	4.02	PPPN402AFCN-RC
Dual Row Receptacles, SMT, without Locating Peg — RoHS Compliant								
10	4	2.00	4.00	S6010-02-ND	.89	.74	.48	NPPN022FFKS-RC
	6	4.00	6.00	S6010-03-ND	1.34	1.12	.72	NPPN032FFKS-RC
	8	6.00	8.00	S6010-04-ND	1.57	1.30	.83	NPPN042FFKS-RC
	10	8.00	10.00	S6010-05-ND	1.68	1.40	.89	NPPN052FFKS-RC
	12	10.00	12.00	S6010-06-ND	1.83	1.52	.97	NPPN062FFKS-RC
	14	12.00	14.00	S6010-07-ND	2.14	1.77	1.13	NPPN072FFKS-RC
	16	14.00	16.00	S6010-08-ND	2.44	2.03	1.30	NPPN082FFKS-RC
	18	16.00	18.00	S6010-09-ND	2.75	2.28	1.46	NPPN092FFKS-RC
	20	18.00	20.00	S6010-10-ND	2.89	2.40	1.53	NPPN102FFKS-RC
	24	22.00	24.00	S6010-12-ND	3.35	2.78	1.78	NPPN122FFKS-RC
	26	24.00	26.00	S6010-13-ND	3.64	3.02	1.93	NPPN132FFKS-RC
	30	28.00	30.00	S6010-15-ND	4.19	3.48	2.22	NPPN152FFKS-RC
	40	38.00	40.00	S6010-20-ND	5.59	4.64	2.96	NPPN202FFKS-RC
	44	42.00	44.00	S6010-22-ND	6.15	5.10	3.26	NPPN222FFKS-RC
	50	48.00	50.00	S6010-25-ND	6.99	5.80	3.70	NPPN252FFKS-RC
	60	58.00	60.00	S6010-30-ND	8.38	6.95	4.44	NPPN302FFKS-RC
Dual Row Receptacles, SMT, with Locating Peg — RoHS Compliant								
10	4	2.00	4.00	S6011-02-ND	.89	.74	.48	NPPN022FFKP-RC
	6	4.00	6.00	S6011-03-ND	1.34	1.12	.72	NPPN032FFKP-RC
	8	6.00	8.00	S6011-04-ND	1.65	1.37	.88	NPPN042FFKP-RC
	10	8.00	10.00	S6011-05-ND	1.68	1.40	.89	NPPN052FFKP-RC
	12	10.00	12.00	S6011-06-ND	1.83	1.52	.97	NPPN062FFKP-RC
	14	12.00	14.00	S6011-07-ND	2.14	1.77	1.13	NPPN072FFKP-RC
	16	14.00	16.00	S6011-08-ND	2.44	2.03	1.30	NPPN082FFKP-RC
	18	16.00	18.00	S6011-09-ND	2.75	2.28	1.46	NPPN092FFKP-RC
	24	22.00	24.00	S6011-12-ND	3.35	2.78	1.78	NPPN122FFKP-RC
	30	28.00	30.00	S6011-15-ND	4.19	3.48	2.22	NPPN152FFKP-RC
	44	42.00	44.00	S6011-22-ND	6.15	5.10	3.26	NPPN222FFKP-RC
	50	48.00	50.00	S6011-25-ND	6.99	5.80	3.70	NPPN252FFKP-RC
	60	58.00	60.00	S6011-30-ND	8.38	6.95	4.44	NPPN302FFKP-RC
Dual Row Receptacles (Bottom Entry), SMT, with Locating Peg								
11	18	16.00	18.00	S2205-09-ND	2.56	2.12	1.36	PPPN092GHNP
	56	54.00	56.00	S2205-28-ND	7.11	5.89	3.76	PPPN282GHNP
	60	58.00	60.00	S2205-30-ND	7.63	6.33	4.04	PPPN302GHNP
Dual Row Receptacles (Bottom Entry), SMT, with Locating Peg — RoHS Compliant								
11	10	8.00	10.00	S6012-05-ND	2.28	1.89	1.21	NPPN052GHNP-RC
	12	10.00	12.00	S6012-06-ND	2.56	2.12	1.36	NPPN062GHNP-RC
	14	12.00	14.00	S6012-07-ND	2.94	2.44	1.56	NPPN072GHNP-RC
	16	14.00	16.00	S6012-08-ND	2.99	2.48	1.58	NPPN082GHNP-RC
	18	16.00	18.00	S6012-09-ND	3.06	2.54	1.62	NPPN092GHNP-RC
	20	18.00	20.00	S6012-10-ND	3.19	2.64	1.69	NPPN102GHNP-RC
	24	22.00	24.00	S6012-12-ND	3.82	3.17	2.02	NPPN122GHNP-RC
	26	24.00	26.00	S6012-13-ND	4.14	3.44	2.19	NPPN132GHNP-RC
	30	28.00	30.00	S6012-15-ND	4.77	3.96	2.53	NPPN152GHNP-RC
	36	34.00	36.00	S6012-18-ND	5.54	4.60	2.93	NPPN182GHNP-RC
	44	42.00	44.00	S6012-22-ND	6.79	5.63	3.59	NPPN222GHNP-RC
	56	54.00	56.00	S6012-28-ND	8.48	7.03	4.49	NPPN282GHNP-RC
	60	58.00	60.00	S6012-30-ND	9.08	7.53	4.81	NPPN302GHNP-RC
Dual Row Receptacles (Top Entry Low Profile), SMT, with Locating Peg								
12	18	16.00	18.00	S2206-09-ND	2.56	2.12	1.36	PPPN092GFNP
	56	54.00	56.00	S2206-28-ND	7.11	5.89	3.76	PPPN282GFNP
	80	78.00	80.00	S2206-40-ND	10.15	8.41	5.37	PPPN402GFNP
Dual Row Receptacles (Top Entry Low Profile), SMT, with Locating Peg — RoHS Compliant								
12	10	8.00	10.00	S6013-05-ND	2.28	1.89	1.21	NPPN052GFNP-RC
	12	10.00	12.00	S6013-06-ND	2.56	2.12	1.36	NPPN062GFNP-RC
	14	12.00	14.00	S6013-07-ND	2.94	2.44	1.56	NPPN072GFNP-RC
	16	14.00	16.00	S6013-08-ND	2.99	2.48	1.58	NPPN082GFNP-RC
12	18	16.00	18.00	S6013-09-ND	3.06	2.54	1.62	NPPN092GFNP-RC
	20	18.00	20.00	S6013-10-ND	3.19	2.64	1.69	NPPN102GFNP-RC
	24	22.00	24.00	S6013-12-ND	3.82	3.17	2.02	NPPN122GFNP-RC
	30	28.00	30.00	S6013-15-ND	4.78	3.96	2.53	NPPN152GFNP-RC
	36	34.00	36.00	S6013-18-ND	5.54	4.60	2.93	NPPN182GFNP-RC
	44	42.00	44.00	S6013-22-ND	6.80	5.64	3.60	NPPN222GFNP-RC
	56	54.00	56.00	S6013-28-ND	8.48	7.03	4.49	NPPN282GFNP-RC
	60	58.00	60.00	S6013-30-ND	9.09	7.54	4.81	NPPN302GFNP-RC
	70	68.00	70.00	S6013-35-ND	10.83	8.97	5.73	NPPN352GFNP-RC
	80	78.00	80.00	S6013-40-ND	12.13	10.05	6.42	NPPN402GFNP-RC
Dual Row Receptacles (Top Entry Low Profile), SMT, without Locating Peg								
12	18	16.00	18.00	S2207-09-ND	2.56	2.12	1.36	PPPN092GFNS
	30	28.00	30.00	S2207-15-ND	3.89	3.22	2.06	PPPN152GFNS
	44	42.00	44.00	S2207-22-ND	5.71	4.73	3.02	PPPN222GFNS
	56	54.00	56.00	S2207-28-ND	7.11	5.89	3.76	PPPN282GFNS
	60	58.00	60.00	S2207-30-ND	7.63	6.33	4.04	PPPN302GFNS
Dual Row Receptacles (Top Entry Low Profile), SMT, without Locating Peg — RoHS Compliant								
12	8	6.00	8.00	S6014-04-ND	1.81	1.51	.96	NPPN042GFNS-RC
	10	8.00	10.00	S6014-05-ND	2.28	1.89	1.21	NPPN052GFNS-RC
	12	10.00	12.00	S6014-06-ND	2.56	2.12	1.36	NPPN062GFNS-RC
	14	12.00	14.00	S6014-07-ND	2.94	2.44	1.56	NPPN072GFNS-RC
	16	14.00	16.00	S6014-08-ND	2.99	2.48	1.58	NPPN082GFNS-RC
	18	16.00	18.00	S6014-09-ND	3.06	2.54	1.62	NPPN092GFNS-RC
	20	18.00	20.00	S6014-10-ND	3.19	2.64	1.69	NPPN102GFNS-RC
	24	22.00	24.00	S6014-12-ND	3.82	3.17	2.02	NPPN122GFNS-RC
	30	28.00	30.00	S6014-15-ND	4.78	3.96	2.53	NPPN152GFNS-RC
	36	34.00	36.00	S6014-18-ND	5.54	4.60	2.93	NPPN182GFNS-RC
	44	42.00	44.00	S6014-22-ND	6.80	5.64	3.60	NPPN222GFNS-RC
	56	54.00	56.00	S6014-28-ND	8.48	7.03	4.49	NPPN282GFNS-RC
	60	58.00	60.00	S6014-30-ND	9.09	7.54	4.81	NPPN302GFNS-RC
	70	68.00	70.00	S6014-35-ND	10.83	8.97	5.73	NPPN352GFNS-RC
	80	78.00	80.00	S6014-40-ND	12.13	10.05	6.42	NPPN402GFNS-RC
Dual Row Receptacles, Right Angle								
13	22	20.00	22.50	S2204-11-ND	1.79	1.48	.95	PPPN112FJFN
	26	24.00	26.50	S2204-13-ND	2.10	1.74	1.11	PPPN132FJFN
	28	26.00	28.50	S2204-14-ND	2.28	1.89	1.21	PPPN142FJFN
	34	32.00	34.50	S2204-17-ND	2.56	2.12	1.36	PPPN172FJFN
	38	36.00	38.50	S2204-19-ND	2.84	2.35	1.50	PPPN192FJFN
	48	46.00	48.50	S2204-24-ND	3.57	2.96	1.89	PPPN242FJFN
Dual Row Receptacles, Right Angle — RoHS Compliant								
13	6	4.00	6.50	S5753-03-ND	1.32	1.10	.70	PPPN032FJFN-RC
	8	6.00	8.50	S5753-04-ND	1.68	1.40	.89	PPPN042FJFN-RC
	10	8.00	10.50	S5753-05-ND	2.01	1.67	1.07	PPPN052FJFN-RC
	12	10.00	12.50	S5753-06-ND	2.41	2.00	1.28	PPPN062FJFN-RC
	14	12.00	14.50	S5753-07-ND	2.22	1.85	1.18	PPPN072FJFN-RC
	16	14.00	16.50	S5753-08-ND	2.92	2.42	1.55	PPPN082FJFN-RC
	18	16.00	18.50	S5753-09-ND	2.88	2.39	1.53	PPPN092FJFN-RC
	20	18.00	20.50	S5753-10-ND	3.34	2.77	1.77	PPPN102FJFN-RC
	22	20.00	22.50	S5753-11-ND	3.67	3.04	1.94	PPPN112FJFN-RC
	24	22.00	24.50	S5753-12-ND	3.43	2.85	1.82	PPPN122FJFN-RC
	26	24.00	26.50	S5753-13-ND	4.33	3.59	2.30	PPPN132FJFN-RC
	28	26.00	28.50	S5753-14-ND	4.67	3.87	2.47	PPPN142FJFN-RC
	30	28.00	30.50	S5753-15-ND	4.59	3.80	2.43	PPPN152FJFN-RC
	32	30.00	32.50	S5753-16-ND	4.98	4.13	2.64	PPPN162FJFN-RC
	34	32.00	34.50	S5753-17-ND	5.29	4.38	2.80	PPPN172FJFN-RC
	36	34.00	36.50	S5753-18-ND	5.60	4.64	2.96	PPPN182FJFN-RC
	38	36.00	38.50	S5753-19-ND	5.92	4.91	3.13	PPPN192FJFN-RC
	40	38.00	40.50	S5753-20-ND	6.22	5.16	3.29	PPPN202FJFN-RC
	42	40.00	42.50	S5753-21-ND	6.54	5.42	3.46	PPPN212FJFN-RC
	44	42.00	44.50	S5753-22-ND	6.84	5.67	3.62	PPPN222FJFN-RC
	46	44.00	46.50	S5753-23-ND	7.16	5.94	3.79	PPPN232FJFN-RC
	48	46.00	48.50	S5753-24-ND	7.47	6.19	3.95	PPPN242FJFN-RC
	50	48.00	50.50	S5753-25-ND	8.56	7.10	4.53	PPPN252FJFN-RC
	60	58.00	60.50	S5753-30-ND	8.40	6.96	4.44	PPPN302FJFN-RC
Quad Row Headers, Straight — RoHS Compliant								
14	24	10.00	12.00	S5804-06-ND	8.14	7.06	5.97	PRPN064RCCN-RC
	40	18.00	20.00	S5804-10-ND	9.26	8.03	6.80	PRPN104RCCN-RC
	48	22.00	24.00	S5804-12-ND	9.82	8.52	7.21	PRPN124RCCN-RC
	60	28.00	30.00	S5804-15-ND	10.66	9.24	7.82	PRPN154RCCN-RC
	72	34.00	36.00	S5804-18-ND	11.50	9.97	8.44	PRPN184RCCN-RC
	84	40.00	42.00	S5804-21-ND	12.34	10.70	9.05	PRPN214RCCN-RC
	96	46.00	48.00	S5804-24-ND	13.18	11.43	9.67	PRPN244RCCN-RC
	120	58.00	60.00	S5804-30-ND	14.46	12.54	10.61	PRPN304RCCN-RC
Quad Row Receptacles, Straight								
15	40	18.00	20.40	S2402-10-ND	4.55	3.77	2.41	PPRN104EFCN
	48	22.00	24.40	S2402-12-ND	5.46	4.53	2.89	PPRN124EFCN
	60	28.00	30.40	S2402-15-ND	6.83	5.66	3.61	PPRN154EFCN
	72	34.00	36.40	S2402-18-ND	8.19	6.79	4.33	PPRN184EFCN
	84	40.00	42.40	S2402-21-ND	9.56	7.92	5.06	PPRN214EFCN
	96	46.00	48.40	S2402-24-ND	10.92	9.05	5.78	PPRN244EFCN
Quad Row Receptacles, Straight — RoHS Compliant								
15	24	10.00	12.40	S6015-06-ND	5.37	4.45	2.84	PPRN064EFCN-RC
	40	18.00	20.40	S6015-10-ND	8.76	7.26	4.64	PPRN104EFCN-RC
	48	22.00	24.40	S6015-12-ND	10.93	9.06	5.78	PPRN124EFCN-RC
	60	28.00	30.40	S6015-15-ND	13.42	11.12	7.10	PPRN154EFCN-RC
	72	34.00	36.40	S6015-18-ND	14.79	12.26	7.82	PPRN184EFCN-RC
	84	40.00	42.40	S6015-21-ND	15.37	12.74	8.13	PPRN214EFCN-RC
	96	46.00	48.40	S6015-24-ND	14.80	12.27	7.83	PPRN244EFCN-RC
	120	58.00	60.40	S6015-30-ND	17.50	14.50	9.25	PPRN304EFCN-RC
Shunts, Open Top — RoHS Compliant								
16	2	Tin		S3405-ND	—	.27	.22	STN02SYBN-RC
	2	Gold		S3404-ND	—	.27	.22	SPN02SYBN-RC

3M 2mm x 2mm Pin Strip Headers

c US

Dim. in Inches (mm)

Vertical

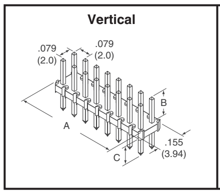

Right Angle

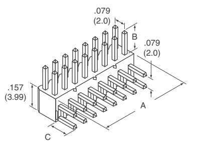

Surface Mount

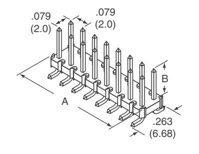

Features: • Industry standard compatible • High temperature dielectric • IR, vapor and wave solder compatible • Straight Solder Tail • Maximizes use of PC board space • Mates with boardmount and wiremount products • End stackable feature • Side stackable feature **Physical Specifications: • Contact Plating:** • Wiping area: 30µ" Gold • Solder Tails: 200µ" Tin Lead (RoHS Compliant: 300µ" Matte Tin) • Underplate: 100µ" Nickel **• Contact Material:** Copper Alloy **• Insulator Material:** High Temperature Thermoplastic (PCT or LCP) • Flammability: UL 94V-0 **Electrical Specifications:** • Current Rating: 1.5A • Insulation Resistance: >1 x $10^9\Omega$ @ 250VDC **• Withstanding Voltage:** 500VDC @ Sea level **• Environmental Specifications:** • Operating Temperature: -55°C ~ 105°C

No. of Pos.	Dim. Inch (mm)			Digi-Key Part No.	Price Each			3M Part No.
	A	B	C		1	100	500	
Vertical (Natural)								
8	.295 (7.5)	.152 (3.86)	.118 (3.0)	3M1108-ND	.96	.73	.66	151208-8422-TB
10	.374 (9.5)	.152 (3.86)	.118 (3.0)	3M1110-ND	1.56	1.19	1.08	151210-8422-TB
12	.453 (11.5)	.152 (3.86)	.118 (3.0)	3M1112-ND	1.16	.89	.81	151212-8422-TB
20	.768 (19.5)	.152 (3.86)	.118 (3.0)	3M1120-ND	1.56	1.19	1.08	151220-8422-TB
24	.925 (23.5)	.152 (3.86)	.118 (3.0)	3M1124-ND	1.79	1.36	1.23	151224-8422-TB
40	1.556 (39.5)	.152 (3.86)	.118 (3.0)	3M1140-ND	2.45	1.87	1.69	151240-8422-TB
44	1.714 (43.5)	.152 (3.86)	.118 (3.0)	3M1144-ND	2.64	2.01	1.82	151244-8422-TB
50	1.950 (49.5)	.152 (3.86)	.118 (3.0)	3M1150-ND	2.91	2.22	2.01	151250-8422-TB
60	2.344 (59.5)	.152 (3.86)	.118 (3.0)	3M1160-ND	3.37	2.56	2.32	151260-8422-TB
Vertical (Black) — RoHS Compliant								
8	.295 (7.5)	.152 (3.86)	.118 (3.0)	3M1408-ND	.92	.70	.63	151208-8422-RB
8	.295 (7.5)	.152 (3.86)	.059 (1.5)	3M5353-ND	1.66	1.27	1.15	151208-8421-RB
10	.374 (9.5)	.152 (3.86)	.118 (3.0)	3M1410-ND	1.00	.76	.69	151210-8422-RB
10	.374 (9.5)	.130 (3.30)	.118 (3.0)	3M5356-ND	1.00	.76	.69	151210-8322-RB
12	.453 (11.5)	.152 (3.86)	.118 (3.0)	3M1412-ND	1.10	.84	.76	151212-8422-RB
14	.531 (13.5)	.152 (3.86)	.118 (3.0)	3M5358-ND	1.21	.92	.83	151214-8422-RB
16	.611 (15.5)	.152 (3.86)	.118 (3.0)	3M5362-ND	1.33	1.02	.92	151216-8422-RB
20	.768 (19.5)	.152 (3.86)	.118 (3.0)	3M1420-ND	1.48	1.13	1.02	151220-8422-RB
20	.768 (19.5)	.130 (3.30)	.059 (1.5)	3M5365-ND	2.27	1.73	1.56	151220-8321-RB
20	.768 (19.5)	.130 (3.30)	.118 (3.0)	3M5366-ND	1.48	1.13	1.02	151220-8322-RB
24	.925 (23.5)	.152 (3.86)	.118 (3.0)	3M1424-ND	1.71	1.30	1.18	151224-8422-RB
26	1.005 (25.5)	.130 (3.30)	.118 (3.0)	3M5370-ND	1.79	1.36	1.23	151226-8322-RB
30	1.162 (29.5)	.152 (3.86)	.118 (3.0)	3M1430-ND	1.96	1.49	1.35	151230-8422-RB
40	1.556 (39.5	.152 (3.86)	.118 (3.0)	3M1440-ND	2.33	1.77	1.61	151240-8422-RB
40	1.556 (39.5)	.130 (3.30)	.118 (3.0)	3M5373-ND	2.33	1.77	1.61	151240-8322-RB
44	1.714 (43.5)	.152 (3.86)	.118 (3.0)	3M1444-ND	2.52	1.92	1.74	151244-8422-RB
44	1.714 (43.5)	.130 (3.30)	.118 (3.0)	3M5375-ND	2.52	1.92	1.74	151244-8322-RB
50	1.950 (49.5)	.152 (3.86)	.118 (3.0)	3M1450-ND	2.77	2.11	1.91	151250-8422-RB
50	1.950 (49.5)	.130 (3.30)	.118 (3.0)	3M5377-ND	2.77	2.11	1.91	151250-8322-RB
60	2.344 (59.5)	.152 (3.86)	.118 (3.0)	3M5381-ND	3.20	2.44	2.21	151260-8422-RB
Right Angle (Natural)								
8	.295 (7.5)	.152 (3.86)	.118 (3.0)	3M1208-ND	.62	.48	.43	151208-7422-TB
10	.374 (9.5)	.152 (3.86)	.118 (3.0)	3M1210-ND	.71	.54	.49	151210-7422-TB
12	.453 (11.5)	.152 (3.86)	.118 (3.0)	3M1212-ND	.77	.59	.53	151212-7422-TB
20	.768 (19.5)	.152 (3.86)	.118 (3.0)	3M1220-ND	1.04	.79	.72	151220-7422-TB
24	.925 (23.5)	.152 (3.86)	.118 (3.0)	3M1224-ND	1.21	.92	.83	151224-7422-TB
30	1.162 (29.5)	.152 (3.86)	.118 (3.0)	3M1230-ND	1.39	1.06	.96	151230-7422-TB
50	1.950 (49.5)	.152 (3.86)	.118 (3.0)	3M1250-ND	2.18	1.66	1.51	151250-7422-TB
60	2.344 (59.5)	.152 (3.86)	.118 (3.0)	3M1260-ND	2.50	1.90	1.72	151260-7422-TB
Right Angle (Black) — RoHS Compliant								
8	.295 (7.5)	.152 (3.86)	.118 (3.0)	3M1508-ND	.60	.46	.42	151208-7422-RB
10	.374 (9.5)	.152 (3.86)	.118 (3.0)	3M1510-ND	.67	.51	.46	151210-7422-RB
10	.374 (9.5)	.130 (3.30)	.118 (3.0)	3M5355-ND	.77	.59	.53	151210-7322-RB
12	.453 (11.5)	.152 (3.86)	.118 (3.0)	3M1512-ND	.73	.56	.51	151212-7422-RB
12	.453 (11.5)	.130 (3.30)	.118 (3.0)	3M5357-ND	.73	.56	.51	151212-7322-RB
16	.611 (15.5)	.152 (3.86)	.118 (3.0)	3M5361-ND	.87	.67	.61	151216-7422-RB
18	.689 (17.5)	.130 (3.30)	.118 (3.0)	3M5363-ND	.94	.72	.65	151218-7322-RB
20	.768 (19.5)	.152 (3.86)	.118 (3.0)	3M1520-ND	1.00	.76	.69	151220-7422-RB
24	.925 (23.5)	.152 (3.86)	.118 (3.0)	3M1524-ND	1.14	.87	.79	151224-7422-RB
26	1.005 (25.5)	.152 (3.86)	.118 (3.0)	3M5369-ND	1.21	.92	.83	151226-7422-RB
30	1.162 (29.5)	.152 (3.86)	.118 (3.0)	3M1530-ND	1.33	1.02	.92	151230-7422-RB
32	1.240 (31.5)	.130 (3.0)	.118 (3.0)	3M5371-ND	1.52	1.16	1.05	151232-7322-RB
36	1.398 (35.5)	.130 (3.0)	.118 (3.0)	3M5372-ND	1.64	1.25	1.13	151236-7322-RB
40	1.556 (39.5)	.152 (3.86)	.118 (3.0)	3M1540-ND	1.79	1.36	1.23	151240-7422-RB
44	1.714 (43.5)	.152 (3.86)	.118 (3.0)	3M1544-ND	1.89	1.44	1.31	151244-7422-RB
44	1.714 (43.5)	.152 (3.86)	.059 (1.5)	3M5374-ND	2.70	2.06	1.86	151244-7421-RB
50	1.950 (49.5)	.152 (3.86)	.118 (3.0)	3M1550-ND	2.08	1.58	1.43	151250-7422-RB
60	2.344 (59.5)	.152 (3.86)	.118 (3.0)	3M2360-ND	2.37	1.81	1.64	151260-7422-RB
Surface Mount (Black) — RoHS Compliant								
4	.139 (3.5)	.130 (3.0)	—	3M5350-ND	.67	.51	.46	151204-2320-RB
8	.295 (7.5)	.130 (3.0)	—	3M5351CT-ND†	1.93	1.47	—	151208-2320-RB-WB
8	.295 (7.5)	.152 (3.86)	—	3M5352CT-ND†	2.04	1.55	—	151208-2420-RB-WB
8	.295 (7.5)	.152 (3.86)	—	3M5352TR-ND◊	997.43/750			151208-2420-RB-WB
10	.374 (9.5)	.152 (3.86)	—	3M5354CT-ND†	2.12	1.62	—	151210-2420-RB-WB
10	.374 (9.5)	.152 (3.86)	—	3M5354TR-ND◊	693.55/500			151210-2420-RB-WB
16	.611 (15.5)	.130 (3.0)	—	3M5359-ND	1.33	1.02	.92	151216-2320-RB
16	.611 (15.5)	.152 (3.86)	—	3M5360-ND	1.33	1.02	.92	151216-2420-RB
16	.611 (15.5)	.152 (3.86)	—	3M5360CT-ND†	2.23	1.70	—	151216-2420-RB-WC
16	.611 (15.5)	.152 (3.86)	—	3M5360TR-ND◊	729.30/500			151216-2420-RB-WC
20	.768 (19.5)	.152 (3.86)	—	3M5364-ND	1.48	1.13	1.02	151220-2420-RB
22	.847 (21.5)	.152 (3.86)	—	3M5367-ND	1.37	1.05	.95	151222-2420-RB
26	1.005 (25.5)	.152 (3.86)	—	3M5368CT-ND†	2.43	1.85	—	151226-2420-RB-WD
26	1.005 (25.5)	.152 (3.86)	—	3M5368TR-ND◊	396.83/250			151226-2420-RB-WD
50	1.95 (49.5)	.152 (3.86)	—	3M5376CT-ND†	3.45	2.63	—	151250-2420-RB-WF
50	1.95 (49.5)	.152 (3.86)	—	3M5376TR-ND◊	1129.70/500			151250-2420-RB-WF
60	2.344 (59.5)	.130 (3.0)	—	3M5378-ND	3.20	2.44	2.21	151260-2320-RB
60	2.344 (59.5)	.152 (3.86)	—	3M5379-ND	3.20	2.44	2.21	151260-2420-RB

† Cut Tape ◊ Tape and Reel

2mm x 2mm Boardmount Sockets

c US

Dim. in Inches (mm)

Vertical

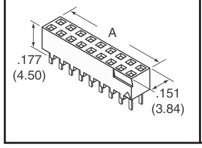

Right Angle

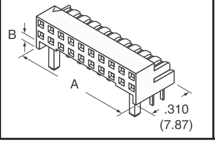

Surface Mount

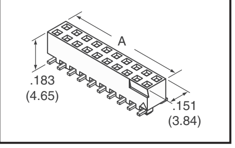

Features: • High temperature dielectric • Reflow solder compatible • Industry standard compatible • Minimizes PC board stacking heights • End stackable feature • Side stackable feature
Physical Specifications: • Insulator Material: Glass Filled Polyester (PCT) • Marking: Orientation delta and 3M Logo • Contact Material: Beryllium copper or Copper alloy • Contact Plating: • Wiping area: 30µ" gold • Solder Tails: 200µ" Tin/Lead (RoHS Compliant: 300µ" Matte Tin) • Underplate: 50µ ~ 150" Nickel overall **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: 1 x 10^9MΩ @ 250VDC **• Withstanding Voltage:** 500VDC @ Sea level **• Environmental Specifications:** • Operating Temperature: -55°C ~ 105°C

No. of Pos.	Dim. Inch (mm)		Digi-Key Part No.	Price Each			3M Part No.
	A	B		1	100	500	
Vertical (Natural)							
8	.310 (8.0)	—	3M1008-ND	1.73	1.32	1.19	150208-6002-TB
10	.389 (10.0)	—	3M1010-ND	1.79	1.36	1.23	150210-6002-TB
12	.467 (12.0)	—	3M1012-ND	1.85	1.41	1.28	150212-6002-TB
20	.782 (20.0)	—	3M1020-ND	2.12	1.62	1.46	150220-6002-TB
24	.940 (24.0)	—	3M1024-ND	2.25	1.71	1.55	150224-6002-TB
30	1.176 (30.0)	—	3M1030-ND	2.43	1.85	1.68	150230-6002-TB
40	1.570 (40.0)	—	3M1040-ND	2.75	2.09	1.89	150240-6002-TB
44	1.727 (44.0)	—	3M1044-ND	2.89	2.20	1.99	150244-6002-TB
50	1.964 (50.0)	—	3M1050-ND	3.08	2.34	2.12	150250-6002-TB
Vertical (Black) — RoHS Compliant							
4	.156 (4.0)	—	3M5301-ND	1.54	1.17	1.06	150204-6002-RB
6	.231 (6.0)	—	3M5303-ND	1.64	1.25	1.13	150206-6001-RB
6	.231 (6.0)	—	3M5304-ND	1.62	1.24	1.12	150206-6002-RB
8	.310 (8.0)	—	3M1308-ND	1.64	1.25	1.13	150208-6002-RB
10	.389 (10.0)	—	3M1310-ND	1.71	1.30	1.18	150210-6002-RB
12	.467 (12.0)	—	3M1312-ND	1.77	1.35	1.22	150212-6002-RB
14	.546 (14.0)	—	3M5308-ND	1.83	1.40	1.26	150214-6002-RB
16	.625 (16.0)	—	3M5311-ND	1.87	1.43	1.29	150216-6002-RB
18	.704 (18.0)	—	3M5312-ND	1.93	1.47	1.33	150218-6002-RB
20	.782 (20.0)	—	3M1320-ND	2.02	1.54	1.39	150220-6002-RB
24	.940 (24.0)	—	3M1324-ND	2.14	1.63	1.48	150224-6002-RB
26	1.019 (26.0)	—	3M5321-ND	2.18	1.66	1.51	150226-6002-RB
28	1.097 (28.0)	—	3M5322-ND	2.18	1.66	1.51	150228-6002-RB
30	1.176 (30.0)	—	3M1330-ND	2.31	1.76	1.59	150230-6002-RB
32	1.255 (32.0)	—	3M5325-ND	2.37	1.81	1.64	150232-6002-RB
34	1.334 (34.0)	—	3M5328-ND	2.43	1.85	1.68	150234-6002-RB
40	1.570 (40.0)	—	3M1340-ND	2.60	1.98	1.79	150240-6002-RB
44	1.727 (44.0)	—	3M1344-ND	2.75	2.09	1.89	150244-6002-RB
50	1.964 (50.0)	—	3M1350-ND	2.93	2.23	2.02	150250-6002-RB
60	2.357 (60.0)	—	3M1360-ND	3.24	2.47	2.24	150260-6002-RB
Right Angle (Black) — RoHS Compliant							
16	.625 (16.0)	.015 (0.38)	3M5310-ND	5.08	3.86	3.49	150216-5002-RB
24	.940 (24.0)	.015 (0.38)	3M5317-ND	5.74	4.37	3.95	150224-5002-RB
26	1.019 (26.0)	.015 (0.38)	3M5320-ND	5.53	4.21	3.81	150226-5002-RB
34	1.334 (34.0)	.015 (0.38)	3M5327-ND	5.76	4.38	3.97	150234-5002-RB
36	1.412 (36.0)	.015 (0.38)	3M5329-ND	5.93	4.51	4.08	150236-5002-RB
40	1.570 (40.0)	.015 (0.38)	3M5332-ND	6.12	4.65	4.21	150240-5002-RB
44	1.727 (44.0)	.015 (0.38)	3M5334-ND	6.22	4.73	4.28	150244-5002-RB
44	1.727 (44.0)	.028 (0.71)	3M5337-ND	6.22	4.73	4.28	150244-5202-RB
50	1.964 (50.0)	.015 (0.38)	3M5341-ND	6.49	4.93	4.47	150250-5002-RB
50	1.964 (50.0)	.053 (1.35)	3M5343-ND	6.49	4.93	4.47	150250-5102-RB
50	1.964 (50.0)	.028 (0.71)	3M5345-ND	6.49	4.93	4.47	150250-5202-RB
60	2.357 (60.0)	.015 (0.38)	3M5349-ND	6.91	5.25	4.75	150260-5002-RB
Right Angle, with Board Locator Post (Black) — RoHS Compliant							
20	.782 (20.0)	.015 (0.38)	3M5314-ND	5.30	4.03	3.65	150220-5022-RB
24	.940 (24.0)	.015 (0.38)	3M5318-ND	5.74	4.37	3.95	150224-5022-RB
44	1.727 (44.0)	.015 (0.38)	3M5335-ND	6.22	4.73	4.28	150244-5022-RB
44	1.727 (44.0)	.053 (1.35)	3M5336-ND	6.22	4.73	4.28	150244-5122-RB
44	1.727 (44.0)	.028 (0.71)	3M5338-ND	6.22	4.73	4.28	150244-5222-RB
50	1.964 (50.0)	.015 (0.38)	3M5342-ND	6.49	4.93	4.47	150250-5022-RB
50	1.964 (50.0)	.053 (1.35)	3M5344-ND	6.49	4.93	4.47	150250-5122-RB
50	1.964 (50.0)	.028 (0.71)	3M5346-ND	6.36	4.84	4.38	150250-5222-RB
Surface Mount (Black) — RoHS Compliant							
4	0.156 (4.0)	—	3M5300-ND	.75	.57	.52	150204-2000-RB
6	0.231 (6.0)	—	3M5302CT-ND†	1.14	.87	—	150206-2000-RB-WB
6	0.231 (6.0	—	3M5302TR-ND◊	594.88/800			150206-2000-RB-WB
8	0.310 (8.0)	—	3M5305-ND	.94	.72	.65	150208-2000-RB
10	0.389 (10.0)	—	3M5306CT-ND†	1.35	1.03	—	150210-2000-RB-WB
10	0.389 (10.0)	—	3M5306TR-ND◊	576.29/650			150210-2000-RB-WB
20	0.782 (20.0)	—	3M5313-ND	1.39	1.06	.96	150220-2000-RB
24	0.940 (24.0)	—	3M5315CT-ND†	1.77	1.35	—	150224-2000-RB-WD
24	0.940 (24.0)	—	3M5315TR-ND◊	790.08/650			150224-2000-RB-WD
34	1.334 (34.0)	—	3M5326-ND	2.00	1.52	1.38	150234-2000-RB
40	1.570 (40.0)	—	3M5330-ND	2.20	1.68	1.52	150240-2000-RB
50	1.964 (50.0)	—	3M5339-ND	2.70	2.06	1.86	150250-2000-RB
Surface Mount, with Board Locator Post (Black) — RoHS Compliant							
12	0.467 (12.0)	—	3M5307-ND	1.27	.97	.88	150212-2020-RB
16	0.625 (16.0)	—	3M5309CT-ND†	1.39	1.06	—	150216-2020-RB-WB
16	0.625 (16.0)	—	3M5309TR-ND◊	670.67/700			150216-2020-RB-WB
24	0.940 (24.0)	—	3M5316CT-ND†	1.77	1.35	—	150224-2020-RB-WD
24	0.940 (24.0)	—	3M5316TR-ND◊	850.85/700			150224-2020-RB-WD
26	1.019 (26.0)	—	3M5319CT-ND†	1.79	1.36	—	150226-2020-RB-WD
26	1.019 (26.0)	—	3M5319TR-ND◊	799.37/650			150226-2020-RB-WD
30	1.176 (30.0)	—	3M5323-ND	1.68	1.28	1.16	150230-2020-RB
32	1.255 (32.0)	—	3M5324-ND	1.79	1.36	1.23	150232-2020-RB
40	1.570 (40.0)	—	3M5331-ND	2.20	1.68	1.52	150240-2020-RB
44	1.727 (44.0)	—	3M5333-ND	2.33	1.77	1.61	150244-2020-RB
50	1.964 (50.0)	—	3M5340-ND	2.70	2.06	1.86	150250-2020-RB
50	1.964 (50.0)	—	3M5340CT-ND†	3.06	2.33	—	150250-2020-RB-WF
50	1.964 (50.0)	—	3M5340TR-ND◊	1301.30/650			150250-2020-RB-WF
52	2.042 (52.0)	—	3M5347-ND	2.77	2.11	1.91	150252-2020-RB
60	2.357 (60.0)	—	3M5348-ND	3.18	2.42	2.19	150260-2020-RB

† Cut Tape ◊ Tape and Reel

2mm Surface Mount Thru-Board Sockets

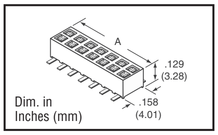

Features: • Reflow solder compatible • End stackable feature
Physical Specifications: • Insulator material: Glass filled PCT • Flammability: UL94V-0 • Color: Black • Contact material: Copper Alloy • Underplating: 50 ~ 150μ" Nickel • Wiping area: 30μ" gold • Solder Tails: 300μ" Matte Tin
Electrical Specifications: • Current Rating: 1A
Environmental Specifications: • Operating Temperature: -55°C ~ 105°C

No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	100	500	Tape and Reel† Qty.	Pricing	3M Part No.
4	0.156 (3.96)	3M5410-ND◊	.92	.70	.63	—	—	153204-2000-RB
4	0.156 (3.96)	3M5635CT-ND	1.12	.86	—	800	743.60	153204-2000-RB-WA
6	0.231 (5.87)	3M5411CT-ND	1.16	.89	—	800	640.64	153206-2000-RB-WA
14	0.546 (13.87)	3M5414CT-ND	1.35	1.03	—	800	743.60	153214-2000-RB-WB
16	0.625 (15.88)	3M5416CT-ND	1.56	1.19	—	800	858.00	153216-2000-RB-WB
24	0.940 (23.88)	3M5420CT-ND	1.77	1.35	—	800	972.40	153224-2000-RB-WD
26	1.019 (25.88)	3M5422CT-ND	1.93	1.47	—	800	1063.92	153226-2000-RB-WD
46	1.806 (45.87)	3M5430CT-ND	3.54	2.69	—	800	1853.28	153246-2000-RB-WF
Thru-Board Sockets with Board Locator Post								
8	0.310 (7.87)	3M5412-ND◊	.98	.75	.68	—	—	153208-2020-RB
10	0.389 (9.88)	3M5413-ND◊	1.08	.83	.75	—	—	153210-2020-RB
14	0.546 (13.87)	3M5415-ND◊	1.23	.94	.85	—	—	153214-2020-RB
16	0.625 (15.88)	3M5417CT-ND	1.35	1.03	—	800	743.60	153216-2020-RB-WB
20	0.782 (19.86)	3M5418CT-ND	1.66	1.27	—	800	915.20	153220-2020-RB-WC
22	0.861 (21.87)	3M5419CT-ND	1.66	1.27	—	800	915.20	153222-2020-RB-WD
24	0.940 (23.88)	3M5421-ND◊	1.56	1.19	1.08	—	—	153224-2020-RB
26	1.019 (25.88)	3M5423CT-ND	1.93	1.47	—	800	1063.92	153226-2020-RB-WD
30	1.176 (29.87)	3M5424-ND◊	2.08	1.58	1.43	—	—	153230-2020-RB
32	1.255 (31.88)	3M5425-ND◊	2.20	1.68	1.52	—	—	153232-2020-RB
36	1.412 (35.86)	3M5426-ND◊	2.54	1.93	1.75	—	—	153236-2020-RB
40	1.570 (39.88)	3M5427-ND◊	2.77	2.11	1.91	—	—	153240-2020-RB
42	1.649 (41.88)	3M5428-ND◊	2.93	2.23	2.02	—	—	153242-2020-RB
44	1.727 (43.87)	3M5429-ND◊	3.00	2.28	2.06	—	—	153244-2020-RB
50	1.964 (49.89)	3M5431CT-ND	3.45	2.63	—	700	1581.58	153250-2020-RB-WF
56	2.200 (55.88)	3M5432-ND◊	3.85	2.93	2.65	—	—	153256-2020-RB
60	2.357 (59.87)	3M5433-ND◊	4.10	3.12	2.82	—	—	153260-2020-RB

† For Tape and Reel part number, change CT-ND to TR-ND. ◊ Bulk

2mm Wiremount Sockets

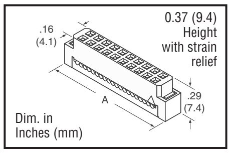

2mm Wiremount Socket – 1mm Pitch Cable

Features: • Industry standard compatible • Mates with 2.0mm x 2.0mm grid pin strips • Low profile • Preassembled covers • Available with and without strain relief **Physical Specifications:** • **Insulation Material:** Glass Filled Polyester (PBT), Flammability: UL94 V-0 • **Color:** Gray • **Contact Material:** Copper Alloy • **Contact Plating:** • Underplate and U-slot: 50-150μ" Nickel, QQ-N-290, Class 2 • Wiping area: Gold Mil-G-45204, Type II, Grade C **Electrical Specifications:** • Current Rating: 1 Amp • Insulation Resistance: >1x10^{9}Ω at 500VDC • Withstanding Voltage: 1000Vrms at Sea Level **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 105°C **Rating:** UL File No. E68080

1.0mm Round Conductor Flat Cable – 28AWG Stranded, PVC

Physical Specifications: • Insulation Material: Polyvinyl Chloride (PVC) • Color: Gray • Marking: Red Edge • Conductors: 28AWG, 7 x 36 Tinned Stranded Copper **Electrical Specifications:** • Voltage Rating: 300V **Environmental Specifications:** • Operating Temperature Rating -20°C ~ 105°C • Flammability Rating: UL: VW-1, CSA: FT1 **Rating:** UL File No. E42769, Style 2651 CSA File No. LL 53649 (optional)

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
IDC Sockets Gold						
10	.59 (15.0)	MSA10A-ND	2.97	225.94	1001.00	152210-0100-GB
12	.67 (17.0)	MSA12A-ND	3.02	229.10	1036.75	152212-0100-GB
20	.99 (25.1)	MSA20A-ND	3.31	251.22	1113.00	152220-0100-GB
26	1.22 (31.0)	MSA26A-ND	3.97	301.78	1337.00	152226-0100-GB
40	1.77 (45.0)	MSA40A-ND	4.16	316.00	1400.00	152240-0100-GB
44	1.93 (49.0)	MSA44A-ND	4.26	323.90	1465.75	152244-0100-GB
50	2.17 (55.0)	MSA50A-ND	4.35	330.22	1494.35	152250-0100-GB
IDC Sockets Gold with Strain Relief						
10	.59 (15.0)	MSE10A-ND	3.45	262.28	1186.90	152210-0103-GB
12	.67 (17.0)	MSE12A-ND	3.64	276.50	1251.25	152212-0103-GB
20	.99 (25.1)	MSE20A-ND	3.60	273.34	1211.00	152220-0103-GB
26	1.22 (31.0)	MSE26A-ND	4.49	341.28	1512.00	152226-0103-GB
40	1.77 (45.0)	MSE40A-ND	4.58	347.60	1540.00	122240-0103-GB
44	1.93 (49.0)	MSE44A-ND	4.80	364.98	1651.65	152244-0103-GB
50	2.17 (55.0)	MSE50A-ND	4.89	371.30	1680.25	152250-0103-GB
IDC Sockets Gold, with Center Polarizing Bump						
10	.59 (15.0)	MTA10A-ND	2.97	225.94	1001.00	152210-0110-GB
12	.67 (17.0)	MTA12A-ND	3.02	229.10	1015.00	152212-0110-GB
20	.99 (25.1)	MTA20A-ND	3.31	251.22	1113.00	152220-0110-GB
26	1.22 (31.0)	MTA26A-ND	3.97	301.78	1337.00	152226-0110-GB
40	1.77 (45.0)	MTA40A-ND	4.08	309.68	1372.00	152240-0110-GB
44	1.93 (49.0)	MTA44A-ND	4.26	323.90	1435.00	152244-0110-GB
50	2.17 (55.0)	MTA50A-ND	4.35	330.22	1463.00	152250-0110-GB
IDC Sockets Gold, with Center Polarizing Bump, with Strain Relief						
10	.59 (15.0)	MTE10A-ND	3.45	262.28	1162.00	152210-0113-GB
12	.67 (17.0)	MTE12A-ND	3.64	276.50	1225.00	152212-0113-GB
20	.99 (25.1)	MTE20A-ND	3.79	287.56	1274.00	152220-0113-GB
26	1.22 (31.0)	MTE26A-ND	4.49	341.28	1512.00	152226-0113-GB
40	1.77 (45.0)	MTE40A-ND	4.58	347.60	1540.00	152240-0113-GB
44	1.93 (49.0)	MTE44A-ND	4.80	364.98	1617.00	152244-0113-GB
50	2.17 (55.0)	MTE50A-ND	4.89	371.30	1645.00	152250-0113-GB
Strain Reliefs						
10	—	MMMR10-ND	.52	39.50	178.75	3448-152210
12	—	MMMR12-ND	.83	63.20	286.00	3448-152212
20	—	MMMR20-ND	.52	39.50	178.75	3448-152220
26	—	MMMR26-ND	1.02	77.42	350.35	3448-152226
40	—	MMMR40-ND	.94	71.10	321.75	3448-152240
44	—	MMMR44-ND	.33	25.28	114.40	3448-152244
50	—	MMMR50-ND	.52	39.50	178.75	3448-152250
Keying plug (Strip of 10)		MMMR01-ND	2.08	158.00	715.00	3435-152200

100m reel quantity may contain splices. Splice position will be marked on the reel.

No. of Pos.	Digi-Key Part No.	(NOTE: "X" in Part No. Represents No. of Meters) Price Per Meters 5	10	25	50	100	3M Part No.
Ribbon Cable Gray (1mm Pitch)							
10	MC10L-X-ND	7.78	14.46	32.25	55.60	88.96	3625/10 100M
12	MC12L-X-ND	9.34	17.35	38.70	66.73	106.76	3625/12 100M
44	MC44L-X-ND	34.25	63.61	141.90	244.66	391.46	3625/44 100M
50	MC50L-X-ND	38.92	72.29	161.25	278.03	444.84	3625/50 100M

2mm Latch / Eject Headers

Features: • Latch/Eject mechanism maintains a secure connection • Roll pins retain latches to body in shipping and high vibration environments • Ejector helps make removal of assemblies easy • Latch design helps resist breakage during eject • High temperature insulators suitable for lead free processing and meet JEDEC J-STD-020C
Specifications: • Insulator Material: Glass filled Polyester (PCT) • Flammability: UL94V-0 • Contact Material: Copper Alloy • Underplating: 50μ" (1.27μm) Nickel • Wiping area: 30μ" (0.76μm) Gold • Solder Tails: 200μ" (5.0μm) Matte Tin • Color: Black • Current Rating: 1A • Temperature Rating: -55°C ~ 105°C

Fig. 1

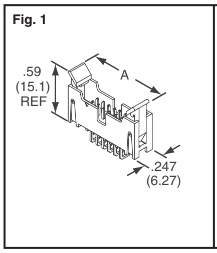

Fig. 2

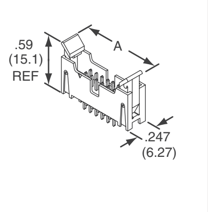

Fig. 3

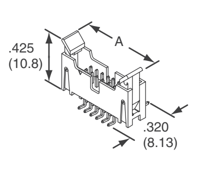

No. of Contacts	Dim. A Inch (mm)	Solder Tail Length Inch (mm)	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
Fig. 1 — Right Angle							
10	.83 (21.1)	.112 (2.84)	3M5080-ND	5.05	3.84	3.48	155210-5302-RB
10	.83 (21.1)	.155 (3.94)	3M5081-ND	5.05	3.84	3.48	155210-5303-RB
12	.91 (23.1)	.112 (2.84)	3M5085-ND	4.14	3.15	2.85	155212-5302-RB
12	.91 (23.1)	.155 (3.94)	3M5086-ND	4.14	3.15	2.85	155212-5303-RB
20	1.22 (31.09)	.112 (2.84)	3M5090-ND	5.87	4.46	4.04	155220-5302-RB
20	1.22 (31.09)	.155 (3.94)	3M5091-ND	5.87	4.46	4.04	155220-5303-RB
26	1.46 (37.1)	.112 (2.84)	3M5095-ND	6.93	5.27	4.77	155226-5302-RB
26	1.46 (37.1)	.155 (3.94)	3M5096-ND	6.93	5.27	4.77	155226-5303-RB
40	2.01 (51.1)	.112 (2.84)	3M5100-ND	10.65	8.09	7.33	155240-5302-RB
40	2.01 (51.1)	.155 (3.94)	3M5101-ND	10.65	8.09	7.33	155240-5303-RB
44	2.17 (55.09)	.112 (2.84)	3M5105-ND	11.71	8.90	8.06	155244-5302-RB
44	2.17 (55.09)	.155 (3.94)	3M5106-ND	11.71	8.90	8.06	155244-5303-RB
50	2.41 (61.09)	.112 (2.84)	3M5110-ND	13.31	10.12	9.16	155250-5302-RB
50	2.41 (61.09)	.155 (3.94)	3M5111-ND	13.31	10.12	9.16	155250-5303-RB
Fig. 2 — Vertical Through Hole							
10	.83 (21.1)	.112 (2.84)	3M5082-ND	4.60	3.50	3.17	155210-6302-RB
10	.83 (21.1)	.155 (3.94)	3M5083-ND	4.60	3.50	3.17	155210-6303-RB
12	.91 (23.1)	.112 (2.84)	3M5087-ND	3.87	2.94	2.66	155212-6302-RB
12	.91 (23.1)	.155 (3.94)	3M5088-ND	3.87	2.94	2.66	155212-6303-RB
20	1.22 (31.09)	.112 (2.84)	3M5092-ND	5.32	4.05	3.67	155220-6302-RB
20	1.22 (31.09)	.155 (3.94)	3M5093-ND	5.32	4.05	3.67	155220-6303-RB
26	1.46 (37.1)	.112 (2.84)	3M5097-ND	6.28	4.78	4.32	155226-6302-RB
26	1.46 (37.1)	.155 (3.94)	3M5098-ND	6.28	4.78	4.32	155226-6303-RB
40	2.01 (51.1)	.112 (2.84)	3M5102-ND	9.65	7.34	6.64	155240-6302-RB
40	2.01 (51.1)	.155 (3.94)	3M5103-ND	9.65	7.34	6.64	155240-6303-RB
44	2.17 (55.09)	.112 (2.84)	3M5107-ND	10.61	8.06	7.30	155244-6302-RB
44	2.17 (55.09)	.155 (3.94)	3M5108-ND	10.61	8.06	7.30	155244-6303-RB
50	2.41 (61.09)	.112 (2.84)	3M5112-ND	12.06	9.17	8.30	155250-6302-RB
50	2.41 (61.09)	.155 (3.94)	3M5113-ND	12.06	9.17	8.30	155250-6303-RB
Fig. 3 — Vertical Surface Mount							
10	.83 (21.1)	—	3M5079-ND	5.97	4.54	4.11	155210-2300-RB
12	.91 (23.1)	—	3M5084-ND	4.91	3.73	3.38	155212-2300-RB
20	1.22 (31.09)	—	3M5089-ND	6.91	5.25	4.75	155220-2300-RB
26	1.46 (37.1)	—	3M5094-ND	8.17	6.21	5.62	155226-2300-RB
40	2.01 (51.1)	—	3M5099-ND	12.56	9.55	8.64	155240-2300-RB
44	2.17 (55.09)	—	3M5104-ND	13.81	10.50	9.50	155244-2300-RB
50	2.41 (61.09)	—	3M5109-ND	15.70	11.93	10.80	155250-2300-RB

3M 2mm Mini-Clamp Plugs and Sockets

Features: • Provides even quality • Reduces maintenance work by providing higher connection reliability • Reduces waste • Operation by general tool "pliers" reduces tooling cost • Latch enabled rugged field termination **Physical Specifications:** • Material: Nylon body, polycarbonate cover • Flammability: UL 94V-0 • Underplating: 100µ" (2.54µm) nickel • Wiping area: 8µ" (0.2µm) minimum gold with lubricant **Electrical Specifications:** • Current Rating: 3A • Voltage Rating: 32V **Temperature Rating**: -20°C ~ 85°C

Fig. 1 — Wiremount Plug

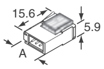

No. of Pos.	Dim. A (mm)
3	12.9
4	14.9

Fig. 2 — Boardmount Plug, Single Row

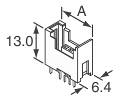

No. of Pos.	Dim. A (mm)
3	13.8
4	15.8

Fig. 3 — Boardmount Plug, Multiple Row

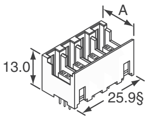

No. of Pos.	Dim. A (mm)
3	13.8
4	15.8

Fig. 4 – Wiremount Socket

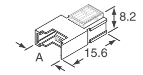

No. of Positions	Dim. A (mm)
3 (without latch)	13.8
3 (with latch)	23.4
4 (without latch)	15.8
4 (with latch)	25.4

Fig.	No. of Pos.	AWG	Wire Ins. Dia. (mm)	Cover Color	Digi-Key Part No.	Price Each 1	25	50	3M Part No.
1	3	20 ~ 22	1.0 ~ 1.2	Green	3M5704-ND	2.00	1.87	1.74	37103-2124-000 FL 500
		20 ~ 22	1.2 ~ 1.6	Blue	3M5705-ND	2.00	1.87	1.74	37103-2165-000 FL 500
		20 ~ 22	1.6 ~ 2.0	Gray	3M5706-ND	2.00	1.87	1.74	37103-2206-000 FL 500
		24 ~ 26	0.8 ~ 1.0	Red	3M5707-ND	2.00	1.87	1.74	37103-3101-000 FL 500
		24 ~ 26	1.0 ~ 1.2	Yellow	3M5708-ND	2.00	1.87	1.74	37103-3122-000 FL 500
		24 ~ 26	1.2 ~ 1.6	Orange	3M5709-ND	2.00	1.87	1.74	37103-3163-000 FL 500
	4	20 ~ 22	1.0 ~ 1.2	Green	3M5710-ND	2.32	2.17	2.01	37104-2124-000 FL 500
		20 ~ 22	1.2 ~ 1.6	Blue	3M5711-ND	2.32	2.17	2.01	37104-2165-000 FL 500
		20 ~ 22	1.6 ~ 2.0	Gray	3M5712-ND	2.32	2.17	2.01	37104-2206-000 FL 500
		24 ~ 26	0.8 ~ 1.0	Red	3M5713-ND	2.32	2.17	2.01	37104-3101-000 FL 500
		24 ~ 26	1.0 ~ 1.2	Yellow	3M5714-ND	2.32	2.17	2.01	37104-3122-000 FL 500
		24 ~ 26	1.2 ~ 1.6	Orange	3M5715-ND	2.32	2.17	2.01	37104-3163-000 FL 500
2	3	—	—	—	3M5700-ND‡	1.49	1.39	1.29	37203-62A3-003PL
		—	—	—	3M5701-ND‡	1.49	1.39	1.29	37203-62B3-003PL
	4	—	—	—	3M5702-ND‡	1.69	1.58	1.47	37204-62A3-004PL
		—	—	—	3M5703-ND‡	1.69	1.58	1.47	37204-62B3-004PL
3	4x2	—	—	—	3M5716-ND‡§	3.42	3.20	2.97	37208-62A3-004PL
	3x4	—	—	—	3M5717-ND‡	2.95	2.76	2.56	37212-62M3-003PL
	4x4	—	—	—	3M5718-ND‡	2.95	2.76	2.56	37216-62M3-004PL
4	3	20 ~ 22	1.0 ~ 1.62	Green	3M5719-ND	2.16	2.02	1.88	37303-2124-000 FL 500
		20 ~ 22	1.0 ~ 1.62	Green	3M5720-ND†	2.25	2.10	1.95	37303-2124-0P0 FL 500
		20 ~ 22	1.2 ~ 1.6	Blue	3M5721-ND	2.16	2.02	1.88	37303-2165-000 FL 500
		20 ~ 22	1.2 ~ 1.6	Blue	3M5722-ND†	2.25	2.10	1.95	37303-2165-0P0 FL 500
		20 ~ 22	1.6 ~ 2.0	Gray	3M5723-ND	2.16	2.02	1.88	37303-2206-000 FL 500
		20 ~ 22	1.6 ~ 2.0	Gray	3M5724-ND†	2.25	2.10	1.95	37303-2206-0P0 FL 500
		24 ~ 26	0.8 ~ 1.0	Red	3M5725-ND	2.16	2.02	1.88	37303-3101-000 FL 500
		24 ~ 26	0.8 ~ 1.0	Red	3M5726-ND†	2.25	2.10	1.95	37303-3101-0P0 FL 500
		24 ~ 26	1.0 ~ 1.62	Yellow	3M5727-ND	2.16	2.02	1.88	37303-3122-000 FL 500
		24 ~ 26	1.0 ~ 1.62	Yellow	3M5728-ND†	2.25	2.10	1.95	37303-3122-0P0 FL 500
		24 ~ 26	1.2 ~ 1.6	Orange	3M5729-ND	2.16	2.02	1.88	37303-3163-000 FL 500
		24 ~ 26	1.2 ~ 1.6	Orange	3M5730-ND†	2.48	2.31	2.15	37303-3163-0P0 FL 500
	4	20 ~ 22	1.0 ~ 1.62	Green	3M5731-ND	2.52	2.36	2.19	37304-2124-000 FL 500
		20 ~ 22	1.0 ~ 1.62	Green	3M5732-ND†	2.63	2.46	2.29	37304-2124-0P0 FL 500
		20 ~ 22	1.2 ~ 1.6	Blue	3M5733-ND	2.52	2.36	2.19	37304-2165-000 FL 500
		20 ~ 22	1.2 ~ 1.6	Blue	3M5734-ND†	2.63	2.46	2.29	37304-2165-0P0 FL 500
		20 ~ 22	1.6 ~ 2.0	Gray	3M5735-ND	2.52	2.36	2.19	37304-2206-000 FL 500
		20 ~ 22	1.6 ~ 2.0	Gray	3M5736-ND†	2.63	2.46	2.29	37304-2206-0P0 FL 500
		24 ~ 26	0.8 ~ 1.0	Red	3M5737-ND	2.52	2.36	2.19	37304-3101-000 FL 500
		24 ~ 26	0.8 ~ 1.0	Red	3M5738-ND†	2.63	2.46	2.29	37304-3101-0P0 FL 500
		24 ~ 26	1.0 ~ 1.62	Yellow	3M5739-ND	2.52	2.36	2.19	37304-3122-000 FL 500
		24 ~ 26	1.0 ~ 1.62	Yellow	3M5740-ND†	2.63	2.46	2.29	37304-3122-0P0 FL 500
		24 ~ 26	1.2 ~ 1.6	Orange	3M5741-ND	2.52	2.36	2.19	37304-3163-000 FL 500
		24 ~ 26	1.2 ~ 1.6	Orange	3M5742-ND†	2.63	2.46	2.29	37304-3163-0P0 FL 500

† With Latch ‡ See Digi-Key website for PCB footprint type § 3M5716 Dim. = 12.9

molex 2mm Cable-to-Board Receptacle

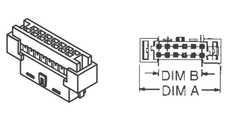

UL2651, UL2678 **UL File No:** E29179 CSA **File No:** LR19980 **Mates With:** Milli-Grid 2.00mm Headers ***Electrical:*** **Voltage:** 125VDC **Current:** 1.0A **Contact Resistance:** 30mΩ maximum **Dielectric Withstanding Voltage:** 500VAC **Insulation Resistance:** 5000MΩ minimum ***Physical:*** **Housing:** High Thermoplastic, UL 94V-0 **Contact:** Copper Alloy **Plating Contact Area:** (15µ") Gold **Operating Temperature:** -20°C ~ 85°C **Cable:** 1.00mm Flat Cable, 7 Strands, 28 AWG

No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	25	Molex Part No.
Dual Row, IDT without Polarization and Locking Ramp							
10	16.65	8.00	WM14210-ND◆	2.61	2.09	1.75	87568-1063
12	18.65	10.00	WM14212-ND◆	2.90	2.32	1.94	87568-1263
14	20.65	12.00	WM14214-ND◆	3.34	2.68	2.23	87568-1463
16	22.65	14.00	WM14216-ND◆	3.58	2.87	2.39	87568-1663
20	26.65	18.00	WM14220-ND◆	3.73	2.99	2.49	87568-2063
22	28.65	20.00	WM14222-ND	4.10	3.29	2.74	87568-2263
24	30.65	22.00	WM14224-ND◆	4.47	3.58	2.99	87568-2463
26	32.65	24.00	WM14226-ND	4.56	3.65	3.04	87568-2663
30	36.65	28.00	WM14230-ND◆	4.81	3.85	3.21	87568-3063
34	40.65	32.00	WM14234-ND	5.07	4.06	3.39	87568-3463
40	46.65	38.00	WM14240-ND◆	5.52	4.42	3.68	87568-4063
44	50.65	42.00	WM14244-ND◆	5.74	4.60	3.83	87568-4463
50	56.65	48.00	WM14250-ND◆	6.34	5.08	4.23	87568-5063
Dual Row, IDT with Single Locking Ramp							
10	16.65	8.00	WM14310-ND	2.61	2.09	1.75	87568-1073
12	18.65	10.00	WM14312-ND	2.90	2.32	1.94	87568-1273
Dual Row, IDT with Polarization and Locking Ramp							
14	20.65	12.00	WM14314-ND◆	3.34	2.68	2.23	87568-1493
16	22.65	14.00	WM14316-ND◆	3.58	2.87	2.39	87568-1693
20	26.65	18.00	WM14320-ND◆	3.73	2.99	2.49	87568-2093
22	28.65	20.00	WM14322-ND◆	4.10	3.29	2.74	87568-2293
24	30.65	22.00	WM14324-ND	4.47	3.58	2.99	87568-2493
26	32.65	24.00	WM14326-ND◆	4.56	3.65	3.04	87568-2693
30	36.65	28.00	WM14330-ND◆	4.81	3.85	3.21	87568-3093
34	40.65	32.00	WM14334-ND	5.07	4.06	3.39	87568-3493
40	46.65	38.00	WM14340-ND◆	5.52	4.42	3.68	87568-4093
44	50.65	42.00	WM14344-ND◆	5.74	4.60	3.83	87568-4493
50	56.65	48.00	WM14350-ND◆	6.34	5.08	4.23	87568-5093

◆ *RoHS Compliant*

1mm Round Conductor Flat Cable

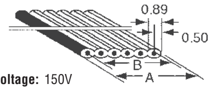

UL File No: E61522, UL Style No. 2678 **CSA File No:** LL61126 **Electrical: Voltage:** 150V **Physical: Flammability:** VW-1 **Operating Temperature:** -20°C ~ 105°C **Insulation:** Gray PVC **Edge Mark:** Black, 28AWG Stranded, Tinned

Cir-cuits	Dimensions (mm) A	B	Digi-Key Part No.	(NOTE: "X" in Part No. Represents No. of Feet) Price Per Feet 5	10	25	50	100
10	10.00	9.00	WM11-X-ND	3.96	7.46	16.31	27.96	46.60
20	20.00	19.00	WM12-X-ND	7.72	14.52	31.77	54.46	124.65
24	24.00	23.00	WM13-X-ND	9.26	17.42	38.11	65.34	141.36
40	40.00	39.00	WM14-X-ND	16.97	31.94	69.87	119.78	199.63
44	44.00	43.00	WM15-X-ND	18.67	35.14	76.87	131.78	270.79
50	50.00	49.00	WM16-X-ND	19.28	36.30	79.41	136.13	265.32

Tyco Electronics AMP

Authorized Distributor

2mm Ribbon Connectors

The new 2.0 (.079) AMP-LATCH® receptacle connector family features contacts on a true 2.0 x 2.0 (.079 x .079) mating grid for 1.0 (.039) pitch ribbon. These receptacles feature insulation displacement contacts (IDC) with a top/bottom single beam contact orientation. Contacts are beryllium copper, duplex plated 30µ" gold in the mating area and 100µ" minimum tin-lead on termination end all over 50µ" nickel underplating. Contact mating area is 1.54 (.061) from the face of the housing and they accept 0.50mm (.0197) round or square posts. **Product Facts:** • True hard metric 2.0 x 2.0 mating grid for 1.0 pitch ribbon cable • IDC, beryllium copper contacts, duplex plated gold-over-nickel • U.L. 94V-0 rated thermoplastic components **Performance Data:** • Durability: 150 cycles • Termination Resistance: 25mΩ maximum • Mating Force: 1.67N maximum • Unmating Force: 0.14N minimum • Operating Temperature: -65°C ~ 105°C

Polarized

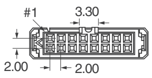

Non-Polarized

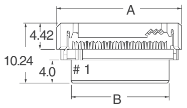

No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Receptacle — Feed Thru Cover Non-Polarized						
26	31.17	26.42	ASA26K-ND	5.17	3.24	111626-6
Receptacle — Feed Thru Cover Polarized — RoHS Compliant						
10	15.16	10.41	AKA10L-ND	2.84	1.79	1-111623-8
14	19.18	14.40	AKA14L-ND	2.94	1.85	1-111623-9
16	21.18	16.41	AKA16L-ND	3.42	2.15	2-111623-0
20	25.17	20.40	AKA20L-ND	3.06	1.92	2-111623-1
24	29.18	24.41	AKA24L-ND	5.25	3.29	2-111623-7
26	31.17	26.42	AKA26L-ND	3.56	2.24	2-111623-2
30	35.18	30.40	AKA30L-ND	3.62	2.27	2-111623-3
40	45.19	40.14	AKA40L-ND	4.45	2.79	2-111623-4
44	49.17	44.40	AKA44L-ND	4.45	2.80	2-111623-5
50	55.17	50.39	AKA50L-ND	4.73	2.97	2-111623-6
Receptacle — Feed Thru Cover Non-Polarized — RoHS Compliant						
8	13.18	8.41	ASA08L-ND	3.27	2.06	2-111626-4
10	15.16	10.41	ASA10L-ND	3.27	2.05	1-111626-7
14	19.18	14.40	ASA14L-ND	3.31	2.08	1-111626-8
16	21.18	16.41	ASA16L-ND	3.45	2.17	2-111626-5
20	25.17	20.40	ASA20L-ND	3.06	1.92	1-111626-9
24	29.18	24.41	ASA24L-ND	4.01	2.52	2-111626-6
26	31.17	26.42	ASA26L-ND	5.37	3.37	2-111626-7
34	39.17	34.42	ASA34L-ND	4.34	2.72	2-111626-0
40	45.19	40.41	ASA40L-ND	4.45	2.79	2-111626-1
44	49.17	44.40	ASA44L-ND	4.45	2.80	2-111626-2
50	55.17	50.39	ASA50L-ND	4.73	2.97	2-111626-3

.1" (2.54mm) Female Headers

Specifications:
- Current Rating: 3 Amps
- Insulator Resistance: 5000MΩ minimum
- Contact Resistance: 20mΩ maximum
- Contact Material: Phosphor Bronze
- Plating: Tin or Gold

Fig. 1

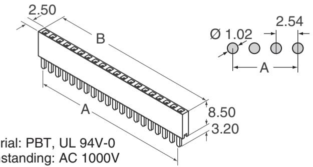

- Insulator Material: PBT, UL 94V-0
- Dielectric Withstanding: AC 1000V
- Operating Temperature: -40°C ~ 105°C

Fig. 2

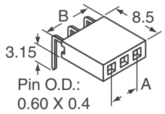

- Insulator Material: Polyester PBT, UL 94V-0
- Dielectric Withstanding: AC 500V
- Operating Temperature: -40°C ~ 105°C

Fig. 3

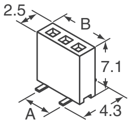

- Insulator Material: Nylon 6T, UL 94V-0
- Dielectric Withstanding: AC 500V
- Operating Temperature: -40°C ~ 125°C

Fig. 4

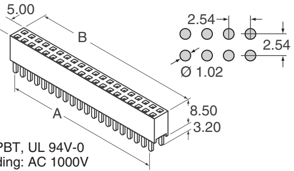

- Insulator Material: PBT, UL 94V-0
- Dielectric Withstanding: AC 1000V
- Operating Temperature: -40°C ~ 105°C

Fig. 5

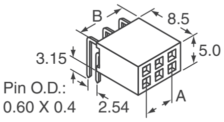

- Insulator Material: Polyester PBT, UL 94V-0
- Dielectric Withstanding: AC 500V
- Operating Temperature: -40°C ~ 105°C

Fig. 6

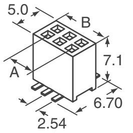

- Insulator Material: Nylon 6T, UL 94V-0
- Dielectric Withstanding: AC 500V
- Operating Temperature: -40°C ~ 125°C

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Fig. 1 — Single Row Female Headers								
Tin	7	.600 (15.24)	.720 (18.28)	S4007-ND	.54	4.50	28.68	PPTC071LFBN
	8	.700 (17.78)	.820 (20.82)	S4008-ND	.61	5.08	32.38	PPTC081LFBN
	9	.800 (20.32)	.920 (23.36)	S4009-ND	.70	5.80	37.00	PPTC091LFBN
Gold	8	.700 (17.78)	.820 (20.82)	S4108-ND	.61	5.08	32.38	PPPC081LFBN
	9	.800 (20.32)	.920 (23.36)	S4109-ND	.70	5.80	37.00	PPPC091LFBN
	19	1.80 (45.72)	1.92 (48.76)	S4119-ND	.88	7.25	46.25	PPPC191LFBN
	23	2.20 (55.88)	2.32 (58.92)	S4123-ND	.98	8.12	51.80	PPPC231LFBN
	27	2.60 (66.04)	2.72 (69.08)	S4127-ND	1.12	9.28	59.20	PPPC271LFBN
	29	2.80 (71.12)	2.92 (74.16)	S4129-ND	1.19	9.86	62.90	PPPC291LFBN
Fig. 1 — Single Row Female Headers – RoHS Compliant								
Tin	2	.100 (2.54)	.220 (5.58)	S7000-ND	.28	2.29	14.62	PPTC021LFBN-RC
	3	.200 (5.08)	.320 (8.12)	S7001-ND	.37	3.05	19.43	PPTC031LFBN-RC
	4	.300 (7.62)	.420 (10.66)	S7002-ND	.46	3.83	24.42	PPTC041LFBN-RC
	5	.400 (10.16)	.520 (13.20)	S6103-ND	.46	3.83	24.42	PPTC051LFBN-RC
	6	.500 (12.70)	.620 (15.74)	S7004-ND	.55	4.58	29.23	PPTC061LFBN-RC
	7	.600 (15.24)	.720 (18.28)	S7005-ND	.64	5.34	34.04	PPTC071LFBN-RC
	8	.700 (17.78)	.820 (20.82)	S7006-ND	.74	6.09	38.85	PPTC081LFBN-RC
	9	.800 (20.32)	.920 (23.36)	S7007-ND	.83	6.87	43.85	PPTC091LFBN-RC
	10	.900 (22.86)	1.02 (25.90)	S7008-ND	.55	4.58	29.23	PPTC101LFBN-RC
	11	1.00 (25.40)	1.12 (28.44)	S7009-ND	.64	5.34	34.04	PPTC111LFBN-RC
	12	1.10 (27.94)	1.22 (30.98)	S6100-ND	.64	5.34	34.04	PPTC121LFBN-RC
	13	1.20 (30.48)	1.32 (33.52)	S7011-ND	.74	6.09	38.85	PPTC131LFBN-RC
	14	1.30 (33.02)	1.42 (36.06)	S7012-ND	.74	6.09	38.85	PPTC141LFBN-RC
	15	1.40 (35.56)	1.52 (38.60)	S7013-ND	.83	6.87	43.85	PPTC151LFBN-RC
	16	1.50 (38.10)	1.62 (41.14)	S7014-ND	.92	7.63	48.66	PPTC161LFBN-RC
	17	1.60 (40.64)	1.72 (43.68)	S7015-ND	.92	7.63	48.66	PPTC171LFBN-RC
	18	1.70 (43.18)	1.82 (46.22)	S7016-ND	1.01	8.38	53.47	PPTC181LFBN-RC
	19	1.80 (45.72)	1.92 (48.76)	S7017-ND	1.11	9.16	58.46	PPTC191LFBN-RC
	20	1.90 (48.26)	2.02 (51.30)	S7018-ND	1.01	8.38	53.47	PPTC201LFBN-RC
	21	2.00 (50.80)	2.12 (53.84)	S7019-ND	1.01	8.38	53.47	PPTC211LFBN-RC
	22	2.10 (53.34)	2.22 (56.38)	S7020-ND	1.11	9.16	58.46	PPTC221LFBN-RC
	23	2.20 (55.88)	2.32 (58.92)	S7021-ND	1.11	9.16	58.46	PPTC231LFBN-RC
	24	2.30 (58.42)	2.42 (61.46)	S7022-ND	1.20	9.92	63.27	PPTC241LFBN-RC
	25	2.40 (60.96)	2.52 (64.00)	S7023-ND	1.20	9.92	63.27	PPTC251LFBN-RC
	26	2.50 (63.50)	2.62 (66.54)	S7024-ND	1.29	10.67	68.08	PPTC261LFBN-RC
	27	2.60 (66.04)	2.72 (69.08)	S7025-ND	1.29	10.67	68.08	PPTC271LFBN-RC
	28	2.70 (68.58)	2.82 (71.62)	S7026-ND	1.38	11.46	73.08	PPTC281LFBN-RC
	29	2.80 (71.12)	2.92 (74.16)	S7027-ND	1.38	11.46	73.08	PPTC291LFBN-RC
	30	2.90 (73.66)	3.02 (76.70)	S7028-ND	1.47	12.21	77.89	PPTC301LFBN-RC
	31	3.00 (76.20)	3.12 (79.24)	S7029-ND	1.56	12.96	82.70	PPTC311LFBN-RC
	32	3.10 (78.74)	3.22 (81.78)	S6102-ND	1.56	12.96	82.70	PPTC321LFBN-RC
	33	3.20 (81.28)	3.32 (84.32)	S7031-ND	1.43	11.83	75.48	PPTC331LFBN-RC
	34	3.30 (83.82)	3.42 (86.86)	S7032-ND	1.66	13.72	87.51	PPTC341LFBN-RC
	35	3.40 (86.36)	3.52 (89.40)	S7033-ND	1.75	14.50	92.50	PPTC351LFBN-RC
	36	3.50 (88.90)	3.62 (91.94)	S7034-ND	1.75	14.50	92.50	PPTC361LFBN-RC
Gold	2	.100 (2.54)	.220 (5.58)	S7035-ND	.28	2.29	14.62	PPPC021LFBN-RC
	3	.200 (5.08)	.320 (8.12)	S7036-ND	.37	3.05	19.43	PPPC031LFBN-RC
	4	.300 (7.62)	.420 (10.66)	S7037-ND	.46	3.83	24.42	PPPC041LFBN-RC
	5	.400 (10.16)	.520 (13.20)	S7038-ND	.46	3.83	24.42	PPPC051LFBN-RC
	6	.500 (12.70)	.620 (15.74)	S7039-ND	.55	4.58	29.23	PPPC061LFBN-RC
	7	.600 (15.24)	.720 (18.28)	S7040-ND	.64	5.34	34.04	PPPC071LFBN-RC
	8	.700 (17.78)	.820 (20.82)	S7041-ND	.74	6.09	38.85	PPPC081LFBN-RC
	9	.800 (20.32)	.920 (23.36)	S7042-ND	.83	6.87	43.85	PPPC091LFBN-RC
	10	.900 (22.86)	1.02 (25.90)	S7043-ND	.55	4.58	29.23	PPPC101LFBN-RC
	11	1.00 (25.40)	1.12 (28.44)	S7044-ND	.64	5.34	34.04	PPPC111LFBN-RC
	12	1.10 (27.94)	1.22 (30.98)	S7045-ND	.64	5.34	34.04	PPPC121LFBN-RC
	13	1.20 (30.48)	1.32 (33.52)	S7046-ND	.74	6.09	38.85	PPPC131LFBN-RC
	14	1.30 (33.02)	1.42 (36.06)	S7047-ND	.77	6.35	40.52	PPPC141LFBN-RC
	15	1.40 (35.56)	1.52 (38.60)	S7048-ND	.83	6.87	43.85	PPPC151LFBN-RC
	16	1.50 (38.10)	1.62 (41.14)	S7049-ND	.92	7.63	48.66	PPPC161LFBN-RC
Gold	17	1.60 (40.64)	1.72 (43.68)	S7050-ND	.92	7.63	48.66	PPPC171LFBN-RC
	18	1.70 (43.18)	1.82 (46.22)	S7051-ND	1.01	8.38	53.47	PPPC181LFBN-RC
	19	1.80 (45.72)	1.92 (48.76)	S7052-ND	1.11	9.16	58.46	PPPC191LFBN-RC
	20	1.90 (48.26)	2.02 (51.30)	S7053-ND	1.01	8.38	53.47	PPPC201LFBN-RC
	21	2.00 (50.80)	2.12 (53.84)	S7054-ND	1.01	8.38	53.47	PPPC211LFBN-RC
	22	2.10 (53.34)	2.22 (56.38)	S7055-ND	1.11	9.16	58.46	PPPC221LFBN-RC
	23	2.20 (55.88)	2.32 (58.92)	S7056-ND	1.11	9.16	58.46	PPPC231LFBN-RC
	24	2.30 (58.42)	2.42 (61.46)	S7057-ND	1.20	9.92	63.27	PPPC241LFBN-RC
	25	2.40 (60.96)	2.52 (64.00)	S7058-ND	1.20	9.92	63.27	PPPC251LFBN-RC
	26	2.50 (63.50)	2.62 (66.54)	S7059-ND	1.29	10.67	68.08	PPPC261LFBN-RC
	27	2.60 (66.04)	2.72 (69.08)	S7060-ND	1.29	10.67	68.08	PPPC271LFBN-RC
	28	2.70 (68.58)	2.82 (71.62)	S7061-ND	1.38	11.46	73.08	PPPC281LFBN-RC
	29	2.80 (71.12)	2.92 (74.16)	S7062-ND	1.38	11.46	73.08	PPPC291LFBN-RC
	30	2.90 (73.66)	3.02 (76.70)	S7063-ND	1.47	12.21	77.89	PPPC301LFBN-RC
	31	3.00 (76.20)	3.12 (79.24)	S7064-ND	1.56	12.96	82.70	PPPC311LFBN-RC
	32	3.10 (78.74)	3.22 (81.78)	S7065-ND	1.56	12.96	82.70	PPPC321LFBN-RC
	33	3.20 (81.28)	3.32 (84.32)	S7066-ND	1.66	13.72	87.51	PPPC331LFBN-RC
	34	3.30 (83.82)	3.42 (86.86)	S7067-ND	1.66	13.72	87.51	PPPC341LFBN-RC
	35	3.40 (86.36)	3.52 (89.40)	S7068-ND	1.75	14.50	92.50	PPPC351LFBN-RC
	36	3.50 (88.90)	3.62 (91.94)	S7069-ND	1.75	14.50	92.50	PPPC361LFBN-RC
Fig. 2 — Single Row Female Headers, Right Angle								
Tin	7	.600 (15.24)	.724 (18.28)	S4342-ND	.54	4.50	28.68	PPTC071LGBN
	9	.800 (20.32)	.924 (23.36)	S4344-ND	.61	5.08	32.38	PPTC091LGBN
	11	1.00 (25.40)	1.12 (28.44)	S4346-ND	.82	6.79	43.29	PPTC111LGBN
	13	1.20 (30.48)	1.32 (33.52)	S4348-ND	.97	8.03	51.25	PPTC131LGBN
	15	1.40 (35.56)	1.52 (38.60)	S4350-ND	1.11	9.22	58.83	PPTC151LGBN
	16	1.50 (38.10)	1.62 (41.14)	S4351-ND	1.10	9.14	58.28	PPTC161LGBN
	17	1.60 (40.64)	1.72 (43.68)	S4352-ND	1.18	9.74	62.16	PPTC171LGBN
	18	1.70 (43.18)	1.82 (46.22)	S4353-ND	1.25	10.32	65.86	PPTC181LGBN
	19	1.80 (45.72)	1.92 (48.76)	S4354-ND	1.32	10.93	69.75	PPTC191LGBN
	21	2.00 (50.80)	2.12 (53.84)	S4356-ND	1.45	12.04	76.78	PPTC211LGBN
	22	2.10 (53.34)	2.22 (56.38)	S4357-ND	1.52	12.62	80.48	PPTC221LGBN
	23	2.20 (55.88)	2.32 (58.92)	S4358-ND	1.60	13.22	84.36	PPTC231LGBN
	24	2.30 (58.42)	2.42 (61.46)	S4359-ND	1.67	13.80	88.06	PPTC241LGBN
	25	2.40 (60.96)	2.52 (64.00)	S4360-ND	1.73	14.30	91.21	PPTC251LGBN
	26	2.50 (63.50)	2.62 (66.54)	S4361-ND	1.80	14.91	95.09	PPTC261LGBN
	27	2.60 (66.04)	2.72 (69.08)	S4362-ND	1.87	15.49	98.79	PPTC271LGBN
	28	2.70 (68.58)	2.82 (71.62)	S4363-ND	1.94	16.10	102.68	PPTC281LGBN
	29	2.80 (71.12)	2.92 (74.16)	S4364-ND	2.00	16.59	105.82	PPTC291LGBN
	30	2.90 (73.66)	3.02 (76.70)	S4365-ND	2.08	17.20	109.71	PPTC301LGBN
	31	3.00 (76.20)	3.12 (79.24)	S4366-ND	2.15	17.78	113.41	PPTC311LGBN
	32	3.10 (78.74)	3.22 (81.78)	S4367-ND	2.25	18.62	118.77	PPTC321LGBN
	33	3.20 (81.28)	3.32 (84.32)	S4368-ND	2.25	18.62	118.77	PPTC331LGBN
	34	3.30 (83.82)	3.42 (86.86)	S4369-ND	2.35	19.49	124.32	PPTC341LGBN
	35	3.40 (86.36)	3.52 (89.40)	S4370-ND	2.45	20.33	129.69	PPTC351LGBN
	36	3.50 (88.90)	3.62 (91.94)	S4371-ND	2.49	20.65	131.72	PPTC361LGBN
	37	3.60 (91.44)	3.72 (94.48)	S4372-ND	2.57	21.26	135.61	PPTC371LGBN
	38	3.70 (93.98)	3.82 (97.02)	S4373-ND	2.63	21.75	138.75	PPTC381LGBN
	39	3.80 (96.52)	3.92 (99.56)	S4374-ND	2.70	22.36	142.64	PPTC391LGBN
	40	3.90 (99.06)	4.02 (102.10)	S4375-ND	2.77	22.94	146.34	PPTC401LGBN
Gold	2	.100 (2.54)	.224 (5.58)	S4376-ND	.26	2.12	13.51	PPPC021LGBN
	7	.600 (15.24)	.724 (18.28)	S4381-ND	.54	4.50	28.68	PPPC071LGBN
	9	.800 (20.32)	.924 (23.36)	S4383-ND	.61	5.08	32.38	PPPC091LGBN
	10	.900 (22.86)	1.02 (25.90)	S4384-ND	.64	5.31	33.86	PPPC101LGBN
	12	1.10 (27.94)	1.22 (30.98)	S4386-ND	.90	7.45	47.55	PPPC121LGBN
	13	1.20 (30.48)	1.32 (33.52)	S4387-ND	.97	8.03	51.25	PPPC131LGBN
	15	1.40 (35.56)	1.52 (38.60)	S4389-ND	1.11	9.22	58.83	PPPC151LGBN
	16	1.50 (38.10)	1.62 (41.14)	S4390-ND	1.10	9.14	58.28	PPPC161LGBN

(Continued)

SULLINS .1” (2.54mm) Female Headers *(Cont.)*

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Gold	17	1.60 (40.64)	1.72 (43.68)	S4391-ND	1.18	9.74	62.16	PPPC171LGBN
	19	1.80 (45.72)	1.92 (48.76)	S4393-ND	1.32	10.93	69.75	PPPC191LGBN
	21	2.00 (50.80)	2.12 (53.84)	S4395-ND	1.45	12.04	76.78	PPPC211LGBN
	22	2.10 (53.34)	2.22 (56.38)	S4396-ND	1.52	12.62	80.48	PPPC221LGBN
	23	2.20 (55.88)	2.32 (58.92)	S4397-ND	1.60	13.22	84.36	PPPC231LGBN
	24	2.30 (58.42)	2.42 (61.46)	S4398-ND	1.67	13.80	88.06	PPPC241LGBN
	25	2.40 (60.96)	2.52 (64.00)	S4399-ND	1.73	14.30	91.21	PPPC251LGBN
	26	2.50 (63.50)	2.62 (66.54)	S4400-ND	1.80	14.91	95.09	PPPC261LGBN
	27	2.60 (66.04)	2.72 (69.08)	S4401-ND	1.87	15.49	98.79	PPPC271LGBN
	28	2.70 (68.58)	2.82 (71.62)	S4402-ND	1.94	16.10	102.68	PPPC281LGBN
	29	2.80 (71.12)	2.92 (74.16)	S4403-ND	2.00	16.59	105.82	PPPC291LGBN
	30	2.90 (73.66)	3.02 (76.70)	S4404-ND	2.08	17.20	109.71	PPPC301LGBN
	31	3.00 (76.20)	3.12 (79.24)	S4405-ND	2.15	17.78	113.41	PPPC311LGBN
	33	3.20 (81.28)	3.32 (84.32)	S4407-ND	2.25	18.62	118.77	PPPC331LGBN
	34	3.30 (83.82)	3.42 (86.86)	S4408-ND	2.35	19.49	124.32	PPPC341LGBN
	35	3.40 (86.36)	3.52 (89.40)	S4409-ND	2.45	20.33	129.69	PPPC351LGBN
	36	3.50 (88.90)	3.62 (91.94)	S4410-ND	2.49	20.65	131.72	PPPC361LGBN
	37	3.60 (91.44)	3.72 (94.48)	S4411-ND	2.57	21.26	135.61	PPPC371LGBN
	38	3.70 (93.98)	3.82 (97.02)	S4412-ND	2.63	21.75	138.75	PPPC381LGBN
	39	3.80 (96.52)	3.92 (99.56)	S4413-ND	2.70	22.36	142.64	PPPC391LGBN
	40	3.90 (99.06)	4.02 (102.10)	S4414-ND	2.77	22.94	146.34	PPPC401LGBN

Fig. 2 — Single Row Female Headers, Right Angle – RoHS Compliant

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Tin	2	.100 (2.54)	.220 (5.58)	S5438-ND	.37	3.05	19.43	PPTC021LGBN-RC
	3	.200 (5.08)	.320 (8.12)	S5439-ND	.46	3.83	24.42	PPTC031LGBN-RC
	4	.300 (7.62)	.420 (10.66)	S5440-ND	.55	4.58	29.23	PPTC041LGBN-RC
	5	.400 (10.16)	.520 (13.20)	S5441-ND	.64	5.34	34.04	PPTC051LGBN-RC
	6	.500 (12.70)	.620 (15.74)	S5442-ND	.74	6.09	38.85	PPTC061LGBN-RC
	7	.600 (15.24)	.720 (18.28)	S5443-ND	.83	6.87	43.85	PPTC071LGBN-RC
	8	.700 (17.78)	.820 (20.82)	S5444-ND	.83	6.87	43.85	PPTC081LGBN-RC
	9	.800 (20.32)	.920 (23.36)	S5445-ND	.83	6.87	43.85	PPTC091LGBN-RC
	10	.900 (22.86)	1.02 (25.90)	S5446-ND	.83	6.87	43.85	PPTC101LGBN-RC
	11	1.00 (25.40)	1.12 (28.44)	S5447-ND	.83	6.87	43.85	PPTC111LGBN-RC
	12	1.10 (27.94)	1.22 (30.98)	S5448-ND	.92	7.63	48.66	PPTC121LGBN-RC
	13	1.20 (30.48)	1.32 (33.52)	S5449-ND	1.01	8.38	53.47	PPTC131LGBN-RC
	14	1.30 (33.02)	1.42 (36.06)	S5450-ND	1.11	9.16	58.46	PPTC141LGBN-RC
	15	1.40 (35.56)	1.52 (38.60)	S5451-ND	1.20	9.92	63.27	PPTC151LGBN-RC
	16	1.50 (38.10)	1.62 (41.14)	S5452-ND	1.29	10.67	68.08	PPTC161LGBN-RC
	17	1.60 (40.64)	1.72 (43.68)	S5453-ND	1.29	10.67	68.08	PPTC171LGBN-RC
	18	1.70 (43.18)	1.82 (46.22)	S5454-ND	1.38	11.46	73.08	PPTC181LGBN-RC
	19	1.80 (45.72)	1.92 (48.76)	S5455-ND	1.47	12.21	77.89	PPTC191LGBN-RC
	20	1.90 (48.26)	2.02 (51.30)	S5456-ND	1.56	12.96	82.70	PPTC201LGBN-RC
	21	2.00 (50.80)	2.12 (53.84)	S5457-ND	1.66	13.72	87.51	PPTC211LGBN-RC
	22	2.10 (53.34)	2.22 (56.38)	S5458-ND	1.75	14.50	92.50	PPTC221LGBN-RC
	23	2.20 (55.88)	2.32 (58.92)	S5459-ND	1.75	14.50	92.50	PPTC231LGBN-RC
	24	2.30 (58.42)	2.42 (61.46)	S5460-ND	1.84	15.25	97.31	PPTC241LGBN-RC
	25	2.40 (60.96)	2.52 (64.00)	S5461-ND	1.93	16.01	102.12	PPTC251LGBN-RC
	26	2.50 (63.50)	2.62 (66.54)	S5462-ND	2.03	16.79	107.12	PPTC261LGBN-RC
	27	2.60 (66.04)	2.72 (69.08)	S5463-ND	2.12	17.55	111.93	PPTC271LGBN-RC
	28	2.70 (68.58)	2.82 (71.62)	S5464-ND	2.21	18.30	116.74	PPTC281LGBN-RC
	29	2.80 (71.12)	2.92 (74.16)	S5465-ND	2.21	18.30	116.74	PPTC291LGBN-RC
	30	2.90 (73.66)	3.02 (76.70)	S5466-ND	2.30	19.08	121.73	PPTC301LGBN-RC
	31	3.00 (76.20)	3.12 (79.24)	S5467-ND	2.39	19.84	126.54	PPTC311LGBN-RC
	32	3.10 (78.74)	3.22 (81.78)	S5468-ND	2.49	20.59	131.35	PPTC321LGBN-RC
	33	3.20 (81.28)	3.32 (84.32)	S5469-ND	2.58	21.34	136.16	PPTC331LGBN-RC
	34	3.30 (83.82)	3.42 (86.86)	S5470-ND	2.67	22.13	141.16	PPTC341LGBN-RC
	35	3.40 (86.36)	3.52 (89.40)	S5471-ND	2.76	22.88	145.97	PPTC351LGBN-RC
	36	3.50 (88.90)	3.62 (91.94)	S5472-ND	2.76	22.88	145.97	PPTC361LGBN-RC
	37	3.60 (91.44)	3.72 (94.48)	S5473-ND	2.85	23.64	150.78	PPTC371LGBN-RC
	38	3.70 (93.98)	3.82 (97.02)	S5474-ND	2.95	24.42	155.77	PPTC381LGBN-RC
	39	3.80 (96.52)	3.92 (99.56)	S5475-ND	3.04	25.17	160.58	PPTC391LGBN-RC
	40	3.90 (99.06)	4.02 (102.10)	S5476-ND	3.13	25.93	165.39	PPTC401LGBN-RC
Gold	2	.100 (2.54)	.220 (5.58)	S5477-ND	.37	3.05	19.43	PPPC021LGBN-RC
	3	.200 (5.08)	.320 (8.12)	S5478-ND	.46	3.83	24.42	PPPC031LGBN-RC
	4	.300 (7.62)	.420 (10.66)	S5479-ND	.55	4.58	29.23	PPPC041LGBN-RC
	5	.400 (10.16)	.520 (13.20)	S5480-ND	.64	5.34	34.04	PPPC051LGBN-RC
	6	.500 (12.70)	.620 (15.74)	S5481-ND	.74	6.09	38.85	PPPC061LGBN-RC
	7	.600 (15.24)	.720 (18.28)	S5482-ND	.83	6.87	43.85	PPPC071LGBN-RC
	8	.700 (17.78)	.820 (20.82)	S5483-ND	.83	6.87	43.85	PPPC081LGBN-RC
	9	.800 (20.32)	.920 (23.36)	S5484-ND	.83	6.87	43.85	PPPC091LGBN-RC
	10	.900 (22.86)	1.02 (25.90)	S5485-ND	.83	6.87	43.85	PPPC101LGBN-RC
	11	1.00 (25.40)	1.12 (28.44)	S5486-ND	.83	6.87	43.85	PPPC111LGBN-RC
	12	1.10 (27.94)	1.22 (30.98)	S5487-ND	.92	7.63	48.66	PPPC121LGBN-RC
	13	1.20 (30.48)	1.32 (33.52)	S5488-ND	1.01	8.38	53.47	PPPC131LGBN-RC
	14	1.30 (33.02)	1.42 (36.06)	S5489-ND	1.11	9.16	58.46	PPPC141LGBN-RC
	15	1.40 (35.56)	1.52 (38.60)	S5490-ND	1.20	9.92	63.27	PPPC151LGBN-RC
	16	1.50 (38.10)	1.62 (41.14)	S5491-ND	1.29	10.67	68.08	PPPC161LGBN-RC
	17	1.60 (40.64)	1.72 (43.68)	S5492-ND	1.29	10.67	68.08	PPPC171LGBN-RC
	18	1.70 (43.18)	1.82 (46.22)	S5493-ND	1.38	11.46	73.08	PPPC181LGBN-RC
	19	1.80 (45.72)	1.92 (48.76)	S5494-ND	1.47	12.21	77.89	PPPC191LGBN-RC
	20	1.90 (48.26)	2.02 (51.30)	S5495-ND	1.56	12.96	82.70	PPPC201LGBN-RC
	21	2.00 (50.80)	2.12 (53.84)	S5496-ND	1.66	13.72	87.51	PPPC211LGBN-RC
	22	2.10 (53.34)	2.22 (56.38)	S5497-ND	1.75	14.50	92.50	PPPC221LGBN-RC
	23	2.20 (55.88)	2.32 (58.92)	S5498-ND	1.75	14.50	92.50	PPPC231LGBN-RC
	24	2.30 (58.42)	2.42 (61.46)	S5499-ND	1.84	15.25	97.31	PPPC241LGBN-RC
	25	2.40 (60.96)	2.52 (64.00)	S5500-ND	1.93	16.01	102.12	PPPC251LGBN-RC
	26	2.50 (63.50)	2.62 (66.54)	S5501-ND	2.03	16.79	107.12	PPPC261LGBN-RC
	27	2.60 (66.04)	2.72 (69.08)	S5502-ND	2.12	17.55	111.93	PPPC271LGBN-RC
	28	2.70 (68.58)	2.82 (71.62)	S5503-ND	2.21	18.30	116.74	PPPC281LGBN-RC
	29	2.80 (71.12)	2.92 (74.16)	S5504-ND	2.21	18.30	116.74	PPPC291LGBN-RC
	30	2.90 (73.66)	3.02 (76.70)	S5505-ND	2.30	19.08	121.73	PPPC301LGBN-RC
	31	3.00 (76.20)	3.12 (79.24)	S5506-ND	2.39	19.84	126.54	PPPC311LGBN-RC
	32	3.10 (78.74)	3.22 (81.78)	S5507-ND	2.49	20.59	131.35	PPPC321LGBN-RC
	33	3.20 (81.28)	3.32 (84.32)	S5508-ND	2.58	21.34	136.16	PPPC331LGBN-RC
	34	3.30 (83.82)	3.42 (86.86)	S5509-ND	2.67	22.13	141.16	PPPC341LGBN-RC
	35	3.40 (86.36)	3.52 (89.40)	S5510-ND	2.76	22.88	145.97	PPPC351LGBN-RC
	36	3.50 (88.90)	3.62 (91.94)	S5511-ND	2.76	22.88	145.97	PPPC361LGBN-RC
	37	3.60 (91.44)	3.72 (94.48)	S5512-ND	2.85	23.64	150.78	PPPC371LGBN-RC
	38	3.70 (93.98)	3.82 (97.02)	S5513-ND	2.95	24.42	155.77	PPPC381LGBN-RC
	39	3.80 (96.52)	3.92 (99.56)	S5514-ND	3.04	25.17	160.58	PPPC391LGBN-RC
	40	3.90 (99.06)	4.02 (102.10)	S5515-ND	3.13	25.93	165.39	PPPC401LGBN-RC

Fig. 3 — Single Row Female Headers, SMT

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Tin	3	.200 (5.08)	.300 (7.62)	S4494-ND	.70	5.77	36.82	PPTC031KFXC
	4	.300 (7.62)	.400 (10.16)	S4495-ND	.91	7.54	48.10	PPTC041KFXC
	5	.400 (10.16)	.500 (12.70)	S4496-ND	.96	7.95	50.69	PPTC051KFXC
	8	.700 (17.78)	.800 (20.32)	S4499-ND	1.53	12.70	81.03	PPTC081KFXC
	9	.800 (20.32)	.900 (22.86)	S4500-ND	1.73	14.30	91.21	PPTC091KFXC
	11	1.00 (25.40)	1.10 (27.94)	S4502-ND	1.76	14.56	92.87	PPTC111KFXC
	12	1.10 (27.94)	1.20 (30.48)	S4503-ND	1.92	15.92	101.57	PPTC121KFXC
	15	1.40 (35.56)	1.50 (38.10)	S4506-ND	2.39	19.81	126.36	PPTC151KFXC
	16	1.50 (38.10)	1.60 (40.64)	S4507-ND	2.56	21.17	135.05	PPTC161KFXC
	17	1.60 (40.64)	1.70 (43.18)	S4508-ND	2.72	22.53	143.75	PPTC171KFXC
	18	1.70 (43.18)	1.80 (45.72)	S4509-ND	2.87	23.81	151.89	PPTC181KFXC
	19	1.80 (45.72)	1.90 (48.26)	S4510-ND	3.03	25.14	160.40	PPTC191KFXC
	20	1.90 (48.26)	2.00 (50.80)	S4511-ND	3.20	26.51	169.09	PPTC201KFXC
	21	2.00 (50.80)	2.10 (53.34)	S4512-ND	3.13	25.93	165.39	PPTC211KFXC
	22	2.10 (53.34)	2.20 (55.88)	S4513-ND	3.28	27.17	173.35	PPTC221KFXC
	23	2.20 (55.88)	2.30 (58.42)	S4514-ND	3.42	28.36	180.93	PPTC231KFXC
	24	2.30 (58.42)	2.40 (60.96)	S4515-ND	3.58	29.64	189.07	PPTC241KFXC
	25	2.40 (60.96)	2.50 (63.50)	S4516-ND	3.73	30.91	197.21	PPTC251KFXC
	26	2.50 (63.50)	2.60 (66.04)	S4517-ND	3.87	32.10	204.80	PPTC261KFXC
	27	2.60 (66.04)	2.70 (68.58)	S4518-ND	4.03	33.35	212.75	PPTC271KFXC
	28	2.70 (68.58)	2.80 (71.12)	S4519-ND	4.17	34.54	220.34	PPTC281KFXC
	29	2.80 (71.12)	2.90 (73.66)	S4520-ND	4.32	35.82	228.48	PPTC291KFXC
	30	2.90 (73.66)	3.00 (76.20)	S4521-ND	4.48	37.09	236.62	PPTC301KFXC
	31	3.00 (76.20)	3.10 (78.74)	S4522-ND	4.62	38.28	244.20	PPTC311KFXC
	32	3.10 (78.74)	3.20 (81.28)	S4523-ND	4.77	39.56	252.34	PPTC321KFXC
	33	3.20 (81.28)	3.30 (83.82)	S4524-ND	4.92	40.75	259.93	PPTC331KFXC
	34	3.30 (83.82)	3.40 (86.36)	S4525-ND	5.07	41.99	267.88	PPTC341KFXC
	35	3.40 (86.36)	3.50 (88.90)	S4526-ND	5.21	43.18	275.47	PPTC351KFXC
	36	3.50 (88.90)	3.60 (91.44)	S4527-ND	5.37	44.46	283.61	PPTC361KFXC
	37	3.60 (91.44)	3.70 (93.98)	S4528-ND	5.52	45.73	291.75	PPTC371KFXC
	38	3.70 (93.98)	3.80 (96.52)	S4529-ND	5.66	46.92	299.33	PPTC381KFXC
	39	3.80 (96.52)	3.90 (99.06)	S4530-ND	5.81	48.17	307.29	PPTC391KFXC
	40	3.90 (99.06)	4.00 (101.60)	S4531-ND	5.96	49.36	314.87	PPTC401KFXC
Gold	2	.100 (2.54)	.200 (5.08)	S4532-ND	.45	3.71	23.68	PPPC021KFXC
	3	.200 (5.08)	.300 (7.62)	S4533-ND	.70	5.77	36.82	PPPC031KFXC
	6	.500 (12.70)	.600 (15.24)	S4536-ND	1.16	9.57	61.05	PPPC061KFXC
	7	.600 (15.24)	.700 (17.78)	S4537-ND	1.34	11.11	70.86	PPPC071KFXC
	8	.700 (17.78)	.800 (20.32)	S4538-ND	1.53	12.70	81.03	PPPC081KFXC
	9	.800 (20.32)	.900 (22.86)	S4539-ND	1.73	14.30	91.21	PPPC091KFXC
	11	1.00 (25.40)	1.10 (27.94)	S4541-ND	1.76	14.56	92.87	PPPC111KFXC
	12	1.10 (27.94)	1.20 (30.48)	S4542-ND	1.92	15.92	101.57	PPPC121KFXC
	13	1.20 (30.48)	1.30 (33.02)	S4543-ND	2.08	17.20	109.71	PPPC131KFXC
	15	1.40 (35.56)	1.50 (38.10)	S4545-ND	2.39	19.81	126.36	PPPC151KFXC
	17	1.60 (40.64)	1.70 (43.18)	S4547-ND	2.72	22.53	143.75	PPPC171KFXC
	19	1.80 (45.72)	1.90 (48.26)	S4549-ND	3.03	25.14	160.40	PPPC191KFXC
	21	2.00 (50.80)	2.10 (53.34)	S4551-ND	3.13	25.93	165.39	PPPC211KFXC
	22	2.10 (53.34)	2.20 (55.88)	S4552-ND	3.28	27.17	173.35	PPPC221KFXC
	23	2.20 (55.88)	2.30 (58.42)	S4553-ND	3.42	28.36	180.93	PPPC231KFXC
	24	2.30 (58.42)	2.40 (60.96)	S4554-ND	3.58	29.64	189.07	PPPC241KFXC
	25	2.40 (60.96)	2.50 (63.50)	S4555-ND	3.73	30.91	197.21	PPPC251KFXC
	26	2.50 (63.50)	2.60 (66.04)	S4556-ND	3.87	32.10	204.80	PPPC261KFXC
	27	2.60 (66.04)	2.70 (68.58)	S4557-ND	4.03	33.35	212.75	PPPC271KFXC
	28	2.70 (68.58)	2.80 (71.12)	S4558-ND	4.17	34.54	220.34	PPPC281KFXC
	29	2.80 (71.12)	2.90 (73.66)	S4559-ND	4.32	35.82	228.48	PPPC291KFXC
	30	2.90 (73.66)	3.00 (76.20)	S4560-ND	4.48	37.09	236.62	PPPC301KFXC
	31	3.00 (76.20)	3.10 (78.74)	S4561-ND	4.62	38.28	244.20	PPPC311KFXC
	32	3.10 (78.74)	3.20 (81.28)	S4562-ND	4.77	39.56	252.34	PPPC321KFXC
	33	3.20 (81.28)	3.30 (83.82)	S4563-ND	4.92	40.75	259.93	PPPC331KFXC
	34	3.30 (83.82)	3.40 (86.36)	S4564-ND	5.07	41.99	267.88	PPPC341KFXC
	35	3.40 (86.36)	3.50 (88.90)	S4565-ND	5.21	43.18	275.47	PPPC351KFXC
	36	3.50 (88.90)	3.60 (91.44)	S4566-ND	5.37	44.46	283.61	PPPC361KFXC
	37	3.60 (91.44)	3.70 (93.98)	S4567-ND	5.52	45.73	291.75	PPPC371KFXC
	38	3.70 (93.98)	3.80 (96.52)	S4568-ND	5.66	46.92	299.33	PPPC381KFXC
	39	3.80 (96.52)	3.90 (99.06)	S4569-ND	5.81	48.17	307.29	PPPC391KFXC
	40	3.90 (99.06)	4.00 (101.60)	S4570-ND	5.96	49.36	314.87	PPPC401KFXC

Fig. 3 — Single Row Female Headers, SMT – RoHS Compliant

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Tin	2	.100 (2.54)	.200 (5.08)	S5594-ND	.56	4.64	29.60	NPTC021KFXC-RC
	3	.200 (5.08)	.300 (7.62)	S5595-ND	.76	6.32	40.33	NPTC031KFXC-RC
	4	.300 (7.62)	.400 (10.16)	S5596-ND	.86	7.16	45.70	NPTC041KFXC-RC
	5	.400 (10.16)	.500 (12.70)	S5597-ND	.92	7.63	48.66	NPTC051KFXC-RC
	6	.500 (12.70)	.600 (15.24)	S5598-ND	1.19	9.83	62.72	NPTC061KFXC-RC
	7	.600 (15.24)	.700 (17.78)	S5599-ND	1.38	11.46	73.08	NPTC071KFXC-RC
	8	.700 (17.78)	.800 (20.32)	S5600-ND	1.51	12.50	79.74	NPTC081KFXC-RC
	9	.800 (20.32)	.900 (22.86)	S5601-ND	1.68	13.95	88.99	NPTC091KFXC-RC
	10	.900 (22.86)	1.00 (25.40)	S5602-ND	1.89	15.63	99.72	NPTC101KFXC-RC

(Continued)

.1” (2.54mm) Female Headers *(Cont.)*

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Tin	11	1.00 (25.40)	1.10 (27.94)	S5603-ND	1.79	14.79	94.35	NPTC111KFXC-RC
	12	1.10 (27.94)	1.20 (30.48)	S5604-ND	1.90	15.72	100.27	NPTC121KFXC-RC
	13	1.20 (30.48)	1.30 (33.02)	S5605-ND	2.05	16.99	108.41	NPTC131KFXC-RC
	14	1.30 (33.02)	1.40 (35.56)	S5606-ND	2.15	17.78	113.41	NPTC141KFXC-RC
	15	1.40 (35.56)	1.50 (38.10)	S5607-ND	2.45	20.30	129.50	NPTC151KFXC-RC
	16	1.50 (38.10)	1.60 (40.64)	S5608-ND	2.57	21.29	135.79	NPTC161KFXC-RC
	17	1.60 (40.64)	1.70 (43.18)	S5609-ND	2.72	22.56	143.93	NPTC171KFXC-RC
	18	1.70 (43.18)	1.80 (45.72)	S5610-ND	2.89	23.95	152.81	NPTC181KFXC-RC
	19	1.80 (45.72)	1.90 (48.26)	S5611-ND	3.05	25.26	161.14	NPTC191KFXC-RC
	20	1.90 (48.26)	2.00 (50.80)	S5612-ND	3.21	26.62	169.83	NPTC201KFXC-RC
	21	2.00 (50.80)	2.10 (53.34)	S5613-ND	3.22	26.71	170.39	NPTC211KFXC-RC
	22	2.10 (53.34)	2.20 (55.88)	S5614-ND	3.38	27.99	178.53	NPTC221KFXC-RC
	23	2.20 (55.88)	2.30 (58.42)	S5615-ND	3.52	29.20	186.30	NPTC231KFXC-RC
	24	2.30 (58.42)	2.40 (60.96)	S5616-ND	3.68	30.51	194.62	NPTC241KFXC-RC
	25	2.40 (60.96)	2.50 (63.50)	S5617-ND	3.84	31.81	202.95	NPTC251KFXC-RC
	26	2.50 (63.50)	2.60 (66.04)	S5618-ND	3.99	33.03	210.72	NPTC261KFXC-RC
	27	2.60 (66.04)	2.70 (68.58)	S5619-ND	4.14	34.34	219.04	NPTC271KFXC-RC
	28	2.70 (68.58)	2.80 (71.12)	S5620-ND	4.30	35.61	227.18	NPTC281KFXC-RC
	29	2.80 (71.12)	2.90 (73.66)	S5621-ND	4.45	36.83	234.95	NPTC291KFXC-RC
	30	2.90 (73.66)	3.00 (76.20)	S5622-ND	4.60	38.14	243.28	NPTC301KFXC-RC
	31	3.00 (76.20)	3.10 (78.74)	S5623-ND	4.61	38.22	243.83	NPTC311KFXC-RC
	32	3.10 (78.74)	3.20 (81.28)	S5624-ND	4.76	39.44	251.60	NPTC321KFXC-RC
	33	3.20 (81.28)	3.30 (83.82)	S5625-ND	4.91	40.66	259.37	NPTC331KFXC-RC
	34	3.30 (83.82)	3.40 (86.36)	S5626-ND	5.05	41.88	267.14	NPTC341KFXC-RC
	35	3.40 (86.36)	3.50 (88.90)	S5627-ND	5.20	43.09	274.91	NPTC351KFXC-RC
	36	3.50 (88.90)	3.60 (91.44)	S5628-ND	5.36	44.40	283.24	NPTC361KFXC-RC
	37	3.60 (91.44)	3.70 (93.98)	S5629-ND	5.51	45.62	291.01	NPTC371KFXC-RC
	38	3.70 (93.98)	3.80 (96.52)	S5630-ND	5.65	46.84	298.78	NPTC381KFXC-RC
	39	3.80 (96.52)	3.90 (99.06)	S5631-ND	5.80	48.05	306.55	NPTC391KFXC-RC
	40	3.90 (99.06)	4.00 (101.60)	S5632-ND	5.95	49.27	314.32	NPTC401KFXC-RC
Gold	2	.100 (2.54)	.200 (5.08)	S5633-ND	.53	4.35	27.75	NPPC021KFXC-RC
	3	.200 (5.08)	.300 (7.62)	S5634-ND	.73	6.03	38.48	NPPC031KFXC-RC
	4	.300 (7.62)	.400 (10.16)	S5635-ND	.82	6.82	43.48	NPPC041KFXC-RC
	5	.400 (10.16)	.500 (12.70)	S5636-ND	.92	7.63	48.66	NPPC051KFXC-RC
	6	.500 (12.70)	.600 (15.24)	S5637-ND	1.19	9.83	62.72	NPPC061KFXC-RC
	7	.600 (15.24)	.700 (17.78)	S5638-ND	1.38	11.46	73.08	NPPC071KFXC-RC
	8	.700 (17.78)	.800 (20.32)	S5639-ND	1.44	11.89	75.85	NPPC081KFXC-RC
	9	.800 (20.32)	.900 (22.86)	S5640-ND	1.60	13.28	84.73	NPPC091KFXC-RC
	10	.900 (22.86)	1.00 (25.40)	S5641-ND	1.89	15.63	99.72	NPPC101KFXC-RC
	11	1.00 (25.40)	1.10 (27.94)	S5642-ND	1.70	14.07	89.73	NPPC111KFXC-RC
	12	1.10 (27.94)	1.20 (30.48)	S5643-ND	1.90	15.72	100.27	NPPC121KFXC-RC
	13	1.20 (30.48)	1.30 (33.02)	S5644-ND	2.05	16.99	108.41	NPPC131KFXC-RC
	14	1.30 (33.02)	1.40 (35.56)	S5645-ND	2.15	17.78	113.41	NPPC141KFXC-RC
	15	1.40 (35.56)	1.50 (38.10)	S5646-ND	2.45	20.30	129.50	NPPC151KFXC-RC
	16	1.50 (38.10)	1.60 (40.64)	S5647-ND	2.57	21.29	135.79	NPPC161KFXC-RC
	17	1.60 (40.64)	1.70 (43.18)	S5648-ND	2.72	22.56	143.93	NPPC171KFXC-RC
	18	1.70 (43.18)	1.80 (45.72)	S5649-ND	2.89	23.95	152.81	NPPC181KFXC-RC
	19	1.80 (45.72)	1.90 (48.26)	S5650-ND	3.05	25.26	161.14	NPPC191KFXC-RC
	20	1.90 (48.26)	2.00 (50.80)	S5651-ND	3.21	26.62	169.83	NPPC201KFXC-RC
	21	2.00 (50.80)	2.10 (53.34)	S5652-ND	3.22	26.71	170.39	NPPC211KFXC-RC
	22	2.10 (53.34)	2.20 (55.88)	S5653-ND	3.38	27.99	178.53	NPPC221KFXC-RC
	23	2.20 (55.88)	2.30 (58.42)	S5654-ND	3.52	29.20	186.30	NPPC231KFXC-RC
	24	2.30 (58.42)	2.40 (60.96)	S5655-ND	3.68	30.51	194.62	NPPC241KFXC-RC
	25	2.40 (60.96)	2.50 (63.50)	S5656-ND	3.84	31.81	202.95	NPPC251KFXC-RC
	26	2.50 (63.50)	2.60 (66.04)	S5657-ND	3.99	33.03	210.72	NPPC261KFXC-RC
	27	2.60 (66.04)	2.70 (68.58)	S5658-ND	4.14	34.34	219.04	NPPC271KFXC-RC
	28	2.70 (68.58)	2.80 (71.12)	S5659-ND	4.30	35.61	227.18	NPPC281KFXC-RC
	29	2.80 (71.12)	2.90 (73.66)	S5660-ND	4.45	36.83	234.95	NPPC291KFXC-RC
	30	2.90 (73.66)	3.00 (76.20)	S5661-ND	4.60	38.14	243.28	NPPC301KFXC-RC
	31	3.00 (76.20)	3.10 (78.74)	S5662-ND	4.61	38.22	243.83	NPPC311KFXC-RC
	32	3.10 (78.74)	3.20 (81.28)	S5663-ND	4.76	39.44	251.60	NPPC321KFXC-RC
	33	3.20 (81.28)	3.30 (83.82)	S5664-ND	4.91	40.66	259.37	NPPC331KFXC-RC
	34	3.30 (83.82)	3.40 (86.36)	S5665-ND	5.05	41.88	267.14	NPPC341KFXC-RC
	35	3.40 (86.36)	3.50 (88.90)	S5666-ND	5.20	43.09	274.91	NPPC351KFXC-RC
	36	3.50 (88.90)	3.60 (91.44)	S5667-ND	5.36	44.40	283.24	NPPC361KFXC-RC
	37	3.60 (91.44)	3.70 (93.98)	S5668-ND	5.51	45.62	291.01	NPPC371KFXC-RC
	38	3.70 (93.98)	3.80 (96.52)	S5669-ND	5.65	46.84	298.78	NPPC381KFXC-RC
	39	3.80 (96.52)	3.90 (99.06)	S5670-ND	5.80	48.05	306.55	NPPC391KFXC-RC
	40	3.90 (99.06)	4.00 (101.60)	S5671-ND	5.95	49.27	314.32	NPPC401KFXC-RC

Fig. 4 — Dual Row Female Headers

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Tin	56	2.70 (68.58)	2.82 (71.62)	S4228-ND	2.31	19.14	122.10	PPTC282LFBN
	62	3.00 (76.20)	3.12 (79.24)	S4231-ND	2.56	21.17	135.05	PPTC312LFBN
Gold	54	2.60 (66.04)	2.72 (69.08)	S4327-ND	2.22	18.42	117.48	PPPC272LFBN

Fig. 4 — Dual Row Female Headers – RoHS Compliant

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Tin	4	.100 (2.54)	.220 (5.58)	S7070-ND	.55	4.58	29.23	PPTC022LFBN-RC
	6	.200 (5.08)	.320 (8.12)	S7071-ND	.74	6.09	38.85	PPTC032LFBN-RC
	8	.300 (7.62)	.420 (10.66)	S7072-ND	.92	7.63	48.66	PPTC042LFBN-RC
	10	.400 (10.16)	.520 (13.20)	S6105-ND	.92	7.63	48.66	PPTC052LFBN-RC
	12	.500 (12.70)	.620 (15.74)	S7074-ND	1.20	9.92	63.27	PPTC062LFBN-RC
	14	.600 (15.24)	.720 (18.28)	S7075-ND	1.29	10.67	68.08	PPTC072LFBN-RC
	16	.700 (17.78)	.820 (20.82)	S7076-ND	1.56	12.96	82.70	PPTC082LFBN-RC
	18	.800 (20.32)	.920 (23.36)	S7077-ND	1.75	14.50	92.50	PPTC092LFBN-RC
	20	.900 (22.86)	1.02 (25.90)	S7078-ND	1.11	9.16	58.46	PPTC102LFBN-RC
	22	1.00 (25.40)	1.12 (28.44)	S7079-ND	1.20	9.92	63.27	PPTC112LFBN-RC
	24	1.10 (27.94)	1.22 (30.98)	S7080-ND	1.29	10.67	68.08	PPTC122LFBN-RC
	26	1.20 (30.48)	1.32 (33.52)	S7081-ND	1.38	11.46	73.08	PPTC132LFBN-RC
	28	1.30 (33.02)	1.42 (36.06)	S7082-ND	1.56	12.96	82.70	PPTC142LFBN-RC
	30	1.40 (35.56)	1.52 (38.60)	S7083-ND	1.66	13.72	87.51	PPTC152LFBN-RC
	32	1.50 (38.10)	1.62 (41.14)	S7084-ND	1.84	15.25	97.31	PPTC162LFBN-RC
	34	1.60 (40.64)	1.72 (43.68)	S7085-ND	1.93	16.01	102.12	PPTC172LFBN-RC
	36	1.70 (43.18)	1.82 (46.22)	S7086-ND	2.03	16.79	107.12	PPTC182LFBN-RC
	38	1.80 (45.72)	1.92 (48.76)	S7087-ND	2.12	17.55	111.93	PPTC192LFBN-RC
	40	1.90 (48.26)	2.02 (51.30)	S6104-ND	2.12	17.55	111.93	PPTC202LFBN-RC
	42	2.00 (50.80)	2.12 (53.84)	S7089-ND	2.12	17.55	111.93	PPTC212LFBN-RC
	44	2.10 (53.34)	2.22 (56.38)	S7090-ND	2.21	18.30	116.74	PPTC222LFBN-RC
	46	2.20 (55.88)	2.32 (58.92)	S7091-ND	2.30	19.08	121.73	PPTC232LFBN-RC
	48	2.30 (58.42)	2.42 (61.46)	S7092-ND	2.39	19.84	126.54	PPTC242LFBN-RC
	50	2.40 (60.96)	2.52 (64.00)	S7093-ND	2.49	20.59	131.35	PPTC252LFBN-RC
	52	2.50 (63.50)	2.62 (66.54)	S7094-ND	2.58	21.34	136.16	PPTC262LFBN-RC
	54	2.60 (66.04)	2.72 (69.08)	S7095-ND	2.76	22.88	145.97	PPTC272LFBN-RC
	56	2.70 (68.58)	2.82 (71.62)	S7096-ND	2.85	23.64	150.78	PPTC282LFBN-RC
	58	2.80 (71.12)	2.92 (74.16)	S7097-ND	2.95	24.42	155.77	PPTC292LFBN-RC
	60	2.90 (73.66)	3.02 (76.70)	S7098-ND	3.04	25.17	160.58	PPTC302LFBN-RC
	64	3.10 (78.74)	3.22 (81.78)	S7100-ND	3.22	26.71	170.39	PPTC322LFBN-RC
	66	3.20 (81.28)	3.32 (84.32)	S7101-ND	3.31	27.46	175.20	PPTC332LFBN-RC
	68	3.30 (83.82)	3.42 (86.86)	S7102-ND	3.41	28.22	180.01	PPTC342LFBN-RC
	70	3.40 (86.36)	3.52 (89.40)	S7103-ND	3.50	28.97	184.82	PPTC352LFBN-RC
	72	3.50 (88.90)	3.62 (91.94)	S7104-ND	3.59	29.75	189.81	PPTC362LFBN-RC
Gold	4	.100 (2.54)	.220 (5.58)	S7105-ND	.55	4.58	29.23	PPPC022LFBN-RC
	6	.200 (5.08)	.320 (8.12)	S7106-ND	.74	6.09	38.85	PPPC032LFBN-RC
	8	.300 (7.62)	.420 (10.66)	S7107-ND	.92	7.63	48.66	PPPC042LFBN-RC
	10	.400 (10.16)	.520 (13.20)	S7108-ND	.92	7.63	48.66	PPPC052LFBN-RC
	12	.500 (12.70)	.620 (15.74)	S7109-ND	1.20	9.92	63.27	PPPC062LFBN-RC
	14	.600 (15.24)	.720 (18.28)	S7110-ND	1.29	10.67	68.08	PPPC072LFBN-RC
	16	.700 (17.78)	.820 (20.82)	S7111-ND	1.56	12.96	82.70	PPPC082LFBN-RC
	18	.800 (20.32)	.920 (23.36)	S7112-ND	1.75	14.50	92.50	PPPC092LFBN-RC
	20	.900 (22.86)	1.02 (25.90)	S6106-ND	1.11	9.16	58.46	PPPC102LFBN-RC
	22	1.00 (25.40)	1.12 (28.44)	S7114-ND	1.20	9.92	63.27	PPPC112LFBN-RC
	24	1.10 (27.94)	1.22 (30.98)	S7115-ND	1.29	10.67	68.08	PPPC122LFBN-RC
	26	1.20 (30.48)	1.32 (33.52)	S7116-ND	1.38	11.46	73.08	PPPC132LFBN-RC
	28	1.30 (33.02)	1.42 (36.06)	S7117-ND	1.56	12.96	82.70	PPPC142LFBN-RC
	30	1.40 (35.56)	1.52 (38.60)	S7118-ND	1.66	13.72	87.51	PPPC152LFBN-RC
	32	1.50 (38.10)	1.62 (41.14)	S7119-ND	1.84	15.25	97.31	PPPC162LFBN-RC
	34	1.60 (40.64)	1.72 (43.68)	S7120-ND	1.93	16.01	102.12	PPPC172LFBN-RC
	36	1.70 (43.18)	1.82 (46.22)	S7121-ND	2.03	16.79	107.12	PPPC182LFBN-RC
	38	1.80 (45.72)	1.92 (48.76)	S7122-ND	2.12	17.55	111.93	PPPC192LFBN-RC
	40	1.90 (48.26)	2.02 (51.30)	S7123-ND	2.12	17.55	111.93	PPPC202LFBN-RC
	42	2.00 (50.80)	2.12 (53.84)	S7124-ND	2.12	17.55	111.93	PPPC212LFBN-RC
	44	2.10 (53.34)	2.22 (56.38)	S7125-ND	2.21	18.30	116.74	PPPC222LFBN-RC
	46	2.20 (55.88)	2.32 (58.92)	S7126-ND	2.30	19.08	121.73	PPPC232LFBN-RC
	48	2.30 (58.42)	2.42 (61.46)	S7127-ND	2.39	19.84	126.54	PPPC242LFBN-RC
	50	2.40 (60.96)	2.52 (64.00)	S7128-ND	2.49	20.59	131.35	PPPC252LFBN-RC
	52	2.50 (63.50)	2.62 (66.54)	S7129-ND	2.58	21.34	136.16	PPPC262LFBN-RC
	54	2.60 (66.04)	2.72 (69.08)	S7130-ND	2.76	22.88	145.97	PPPC272LFBN-RC
	56	2.70 (68.58)	2.82 (71.62)	S7131-ND	2.85	23.64	150.78	PPPC282LFBN-RC
	58	2.80 (71.12)	2.92 (74.16)	S7132-ND	2.95	24.42	155.77	PPPC292LFBN-RC
	60	2.90 (73.66)	3.02 (76.70)	S7133-ND	3.04	25.17	160.58	PPPC302LFBN-RC
	62	3.00 (76.20)	3.12 (79.24)	S7134-ND	3.13	25.93	165.39	PPPC312LFBN-RC
	64	3.10 (78.74)	3.22 (81.78)	S7135-ND	3.22	26.71	170.39	PPPC322LFBN-RC
	66	3.20 (81.28)	3.32 (84.32)	S7136-ND	3.31	27.46	175.20	PPPC332LFBN-RC
	68	3.30 (83.82)	3.42 (86.86)	S7137-ND	3.41	28.22	180.01	PPPC342LFBN-RC
	70	3.40 (86.36)	3.52 (89.40)	S7138-ND	3.50	28.97	184.82	PPPC352LFBN-RC
	72	3.50 (88.90)	3.62 (91.94)	S7139-ND	3.59	29.75	189.81	PPPC362LFBN-RC

Fig. 5 — Dual Row Female Headers, Right Angle – RoHS Compliant

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Tin	4	.100 (2.54)	.220 (5.58)	S5516-ND	.54	4.44	28.31	PPTC022LJBN-RC
	6	.200 (5.08)	.320 (8.12)	S5517-ND	.72	5.95	37.93	PPTC032LJBN-RC
	8	.300 (7.62)	.420 (10.66)	S5518-ND	.96	7.95	50.69	PPTC042LJBN-RC
	10	.400 (10.16)	.520 (13.20)	S5519-ND	1.00	8.32	53.10	PPTC052LJBN-RC
	12	.500 (12.70)	.620 (15.74)	S5520-ND	1.15	9.54	60.87	PPTC062LJBN-RC
	14	.600 (15.24)	.720 (18.28)	S5521-ND	1.14	9.45	60.31	PPTC072LJBN-RC
	16	.700 (17.78)	.820 (20.82)	S5522-ND	1.15	9.54	60.87	PPTC082LJBN-RC
	18	.800 (20.32)	.920 (23.36)	S5523-ND	1.30	10.76	68.64	PPTC092LJBN-RC
	20	.900 (22.86)	1.02 (25.90)	S5524-ND	1.34	11.14	71.04	PPTC102LJBN-RC
	22	1.00 (25.40)	1.12 (28.44)	S5525-ND	1.47	12.21	77.89	PPTC112LJBN-RC
	24	1.10 (27.94)	1.22 (30.98)	S5526-ND	1.61	13.34	85.10	PPTC122LJBN-RC
	26	1.20 (30.48)	1.32 (33.52)	S5527-ND	1.75	14.50	92.50	PPTC132LJBN-RC
	28	1.30 (33.02)	1.42 (36.06)	S5528-ND	1.88	15.57	99.35	PPTC142LJBN-RC
	30	1.40 (35.56)	1.52 (38.60)	S5529-ND	2.02	16.70	106.56	PPTC152LJBN-RC
	32	1.50 (38.10)	1.62 (41.14)	S5530-ND	2.00	16.56	105.64	PPTC162LJBN-RC
	34	1.60 (40.64)	1.72 (43.68)	S5531-ND	2.12	17.55	111.93	PPTC172LJBN-RC
	36	1.70 (43.18)	1.82 (46.22)	S5532-ND	2.25	18.62	118.77	PPTC182LJBN-RC
	38	1.80 (45.72)	1.92 (48.76)	S5533-ND	2.37	19.60	125.06	PPTC192LJBN-RC
	40	1.90 (48.26)	2.02 (51.30)	S5534-ND	2.50	20.68	131.91	PPTC202LJBN-RC
	42	2.00 (50.80)	2.12 (53.84)	S5535-ND	2.61	21.66	138.20	PPTC212LJBN-RC
	44	2.10 (53.34)	2.22 (56.38)	S5536-ND	2.74	22.74	145.04	PPTC222LJBN-RC
	46	2.20 (55.88)	2.32 (58.92)	S5537-ND	2.86	23.72	151.33	PPTC232LJBN-RC
	48	2.30 (58.42)	2.42 (61.46)	S5538-ND	2.99	24.80	158.18	PPTC242LJBN-RC
	50	2.40 (60.96)	2.52 (64.00)	S5539-ND	3.12	25.87	165.02	PPTC252LJBN-RC
	52	2.50 (63.50)	2.62 (66.54)	S5540-ND	3.24	26.85	171.31	PPTC262LJBN-RC
	54	2.60 (66.04)	2.72 (69.08)	S5541-ND	3.37	27.93	178.16	PPTC272LJBN-RC
	56	2.70 (68.58)	2.82 (71.62)	S5542-ND	3.49	28.91	184.45	PPTC282LJBN-RC
	58	2.80 (71.12)	2.92 (74.16)	S5543-ND	3.62	29.99	191.29	PPTC292LJBN-RC
	60	2.90 (73.66)	3.02 (76.70)	S5544-ND	3.74	30.97	197.58	PPTC302LJBN-RC
	62	3.00 (76.20)	3.12 (79.24)	S5545-ND	3.87	32.05	204.43	PPTC312LJBN-RC
	64	3.10 (78.74)	3.22 (81.78)	S5546-ND	3.99	33.03	210.72	PPTC322LJBN-RC
	66	3.20 (81.28)	3.32 (84.32)	S5547-ND	4.12	34.10	217.56	PPTC332LJBN-RC

(Continued)

.1” (2.54mm) Female Headers *(Cont.)*

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Tin	68	3.30 (83.82)	3.42 (86.86)	S5548-ND	4.24	35.09	223.85	PPTC342LJBN-RC
	70	3.40 (86.36)	3.52 (89.40)	S5549-ND	4.36	36.16	230.70	PPTC352LJBN-RC
	74	3.60 (91.44)	3.72 (94.48)	S5551-ND	4.61	38.22	243.83	PPTC372LJBN-RC
	76	3.70 (93.98)	3.82 (97.02)	S5552-ND	4.74	39.27	250.49	PPTC382LJBN-RC
	78	3.80 (96.52)	3.92 (99.56)	S5553-ND	4.86	40.28	256.97	PPTC392LJBN-RC
	80	3.90 (99.06)	4.02 (102.10)	S5554-ND	4.99	41.33	263.63	PPTC402LJBN-RC
Gold	4	.100 (2.54)	.220 (5.58)	S5555-ND	.54	4.44	28.31	PPPC022LJBN-RC
	6	.200 (5.08)	.320 (8.12)	S5556-ND	.72	5.95	37.93	PPPC032LJBN-RC
	8	.300 (7.62)	.420 (10.66)	S5557-ND	.96	7.95	50.69	PPPC042LJBN-RC
	10	.400 (10.16)	.520 (13.20)	S5558-ND	1.00	8.32	53.10	PPPC052LJBN-RC
	12	.500 (12.70)	.620 (15.74)	S5559-ND	1.15	9.54	60.87	PPPC062LJBN-RC
	14	.600 (15.24)	.720 (18.28)	S5560-ND	1.14	9.45	60.31	PPPC072LJBN-RC
	16	.700 (17.78)	.820 (20.82)	S5561-ND	1.15	9.54	60.87	PPPC082LJBN-RC
	18	.800 (20.32)	.920 (23.36)	S5562-ND	1.30	10.76	68.64	PPPC092LJBN-RC
	20	.900 (22.86)	1.02 (25.90)	S5563-ND	1.34	11.14	71.04	PPPC102LJBN-RC
	24	1.10 (27.94)	1.22 (30.98)	S5565-ND	1.61	13.34	85.10	PPPC122LJBN-RC
	26	1.20 (30.48)	1.32 (33.52)	S5566-ND	1.75	14.50	92.50	PPPC132LJBN-RC
	28	1.30 (33.02)	1.42 (36.06)	S5567-ND	1.88	15.57	99.35	PPPC142LJBN-RC
	30	1.40 (35.56)	1.52 (38.60)	S5568-ND	2.02	16.70	106.56	PPPC152LJBN-RC
	32	1.50 (38.10)	1.62 (41.14)	S5569-ND	2.00	16.56	105.64	PPPC162LJBN-RC
	34	1.60 (40.64)	1.72 (43.68)	S5570-ND	2.12	17.55	111.93	PPPC172LJBN-RC
	36	1.70 (43.18)	1.82 (46.22)	S5571-ND	2.25	18.62	118.77	PPPC182LJBN-RC
	38	1.80 (45.72)	1.92 (48.76)	S5572-ND	2.37	19.60	125.06	PPPC192LJBN-RC
	40	1.90 (48.26)	2.02 (51.30)	S5573-ND	2.50	20.68	131.91	PPPC202LJBN-RC
	42	2.00 (50.80)	2.12 (53.84)	S5574-ND	2.61	21.66	138.20	PPPC212LJBN-RC
	44	2.10 (53.34)	2.22 (56.38)	S5575-ND	2.74	22.74	145.04	PPPC222LJBN-RC
	48	2.30 (58.42)	2.42 (61.46)	S5577-ND	2.99	24.80	158.18	PPPC242LJBN-RC
	50	2.40 (60.96)	2.52 (64.00)	S5578-ND	3.12	25.87	165.02	PPPC252LJBN-RC
	52	2.50 (63.50)	2.62 (66.54)	S5579-ND	3.24	26.85	171.31	PPPC262LJBN-RC
	54	2.60 (66.04)	2.72 (69.08)	S5580-ND	3.37	27.93	178.16	PPPC272LJBN-RC
	56	2.70 (68.58)	2.82 (71.62)	S5581-ND	3.49	28.91	184.45	PPPC282LJBN-RC
	58	2.80 (71.12)	2.92 (74.16)	S5582-ND	3.62	29.99	191.29	PPPC292LJBN-RC
	60	2.90 (73.66)	3.02 (76.70)	S5583-ND	3.74	30.97	197.58	PPPC302LJBN-RC
	62	3.00 (76.20)	3.12 (79.24)	S5584-ND	3.87	32.05	204.43	PPPC312LJBN-RC
	64	3.10 (78.74)	3.22 (81.78)	S5585-ND	3.99	33.03	210.72	PPPC322LJBN-RC
	66	3.20 (81.28)	3.32 (84.32)	S5586-ND	4.12	34.10	217.56	PPPC332LJBN-RC
	68	3.30 (83.82)	3.42 (86.86)	S5587-ND	4.24	35.09	223.85	PPPC342LJBN-RC
	70	3.40 (86.36)	3.52 (89.40)	S5588-ND	4.36	36.16	230.70	PPPC352LJBN-RC
	74	3.60 (91.44)	3.72 (94.48)	S5590-ND	4.61	38.22	243.83	PPPC372LJBN-RC
	76	3.70 (93.98)	3.82 (97.02)	S5591-ND	4.74	39.27	250.49	PPPC382LJBN-RC
	78	3.80 (96.52)	3.92 (99.56)	S5592-ND	4.86	40.28	256.97	PPPC392LJBN-RC
	80	3.90 (99.06)	4.02 (102.10)	S5593-ND	4.99	41.33	263.63	PPPC402LJBN-RC
Fig. 6 — Dual Row Female Headers, SMT								
Tin	16	.700 (17.78)	.820 (20.82)	S4577-ND	2.89	23.95	152.81	PPTC082KFMS
	18	.800 (20.32)	.920 (23.36)	S4578-ND	3.26	27.00	172.24	PPTC092KFMS
	30	1.40 (35.56)	1.52 (38.60)	S4584-ND	4.63	38.37	244.76	PPTC152KFMS
	32	1.50 (38.10)	1.62 (41.14)	S4585-ND	4.94	40.89	260.85	PPTC162KFMS
	34	1.60 (40.64)	1.72 (43.68)	S4586-ND	5.25	43.53	277.69	PPTC172KFMS
	38	1.80 (45.72)	1.92 (48.76)	S4588-ND	5.87	48.60	310.06	PPTC192KFMS
	42	2.00 (50.80)	2.12 (53.84)	S4590-ND	6.27	51.91	331.15	PPTC212KFMS
	44	2.10 (53.34)	2.22 (56.38)	S4591-ND	6.56	54.38	346.88	PPTC222KFMS
	46	2.20 (55.88)	2.32 (58.92)	S4592-ND	6.86	56.81	362.42	PPTC232KFMS
	50	2.40 (60.96)	2.52 (64.00)	S4594-ND	7.45	61.74	393.87	PPTC252KFMS
	52	2.50 (63.50)	2.62 (66.54)	S4595-ND	7.75	64.18	409.41	PPTC262KFMS
	54	2.60 (66.04)	2.72 (69.08)	S4596-ND	8.05	66.73	425.69	PPTC272KFMS
	56	2.70 (68.58)	2.82 (71.62)	S4597-ND	8.35	69.19	441.41	PPTC282KFMS
	58	2.80 (71.12)	2.92 (74.16)	S4598-ND	8.65	71.63	456.95	PPTC292KFMS
	60	2.90 (73.66)	3.02 (76.70)	S4599-ND	8.94	74.10	472.68	PPTC302KFMS
	62	3.00 (76.20)	3.12 (79.24)	S4600-ND	5.74	47.56	303.40	PPTC312KFMS
	64	3.10 (78.74)	3.22 (81.78)	S4601-ND	9.53	79.00	503.94	PPTC322KFMS
	66	3.20 (81.28)	3.32 (84.32)	S4602-ND	9.84	81.55	520.22	PPTC332KFMS
	68	3.30 (83.82)	3.42 (86.86)	S4603-ND	10.14	84.01	535.95	PPTC342KFMS
	70	3.40 (86.36)	3.52 (89.40)	S4604-ND	10.43	86.45	551.49	PPTC352KFMS
	72	3.50 (88.90)	3.62 (91.94)	S4605-ND	10.73	88.91	567.21	PPTC362KFMS
	74	3.60 (91.44)	3.72 (94.48)	S4606-ND	11.03	91.38	582.94	PPTC372KFMS
	76	3.70 (93.98)	3.82 (97.02)	S4607-ND	11.32	93.82	598.48	PPTC382KFMS
	78	3.80 (96.52)	3.92 (99.56)	S4608-ND	11.63	96.37	614.76	PPTC392KFMS
	80	3.90 (99.06)	4.02 (102.10)	S4609-ND	11.93	98.83	630.48	PPTC402KFMS
Gold	4	.100 (2.54)	.220 (5.58)	S4610-ND	.91	7.54	48.10	PPPC022KFMS
	14	.600 (15.24)	.720 (18.28)	S4615-ND	2.53	21.00	133.94	PPPC072KFMS
	24	1.10 (27.94)	1.22 (30.98)	S4620-ND	3.71	30.74	196.10	PPPC122KFMS
	26	1.20 (30.48)	1.32 (33.52)	S4621-ND	4.02	33.29	212.38	PPPC132KFMS
	28	1.30 (33.02)	1.42 (36.06)	S4622-ND	4.32	35.82	228.48	PPPC142KFMS
	30	1.40 (35.56)	1.52 (38.60)	S4623-ND	4.63	38.37	244.76	PPPC152KFMS
	32	1.50 (38.10)	1.62 (41.14)	S4624-ND	4.94	40.89	260.85	PPPC162KFMS
	36	1.70 (43.18)	1.82 (46.22)	S4626-ND	5.56	46.05	293.78	PPPC182KFMS
	38	1.80 (45.72)	1.92 (48.76)	S4627-ND	5.87	48.60	310.06	PPPC192KFMS
	40	1.90 (48.26)	2.02 (51.30)	S4628-ND	6.17	51.16	326.34	PPPC202KFMS
	42	2.00 (50.80)	2.12 (53.84)	S4629-ND	6.27	51.91	331.15	PPPC212KFMS
	44	2.10 (53.34)	2.22 (56.38)	S4630-ND	6.56	54.38	346.88	PPPC222KFMS
	46	2.20 (55.88)	2.32 (58.92)	S4631-ND	6.86	56.81	362.42	PPPC232KFMS
	52	2.50 (63.50)	2.62 (66.54)	S4634-ND	7.75	64.18	409.41	PPPC262KFMS
	54	2.60 (66.04)	2.72 (69.08)	S4635-ND	8.05	66.73	425.69	PPPC272KFMS
	56	2.70 (68.58)	2.82 (71.62)	S4636-ND	8.35	69.19	441.41	PPPC282KFMS
	58	2.80 (71.12)	2.92 (74.16)	S4637-ND	8.65	71.63	456.95	PPPC292KFMS
	60	2.90 (73.66)	3.02 (76.70)	S4638-ND	8.94	74.10	472.68	PPPC302KFMS
	62	3.00 (76.20)	3.12 (79.24)	S4639-ND	5.74	47.56	303.40	PPPC312KFMS
	66	3.20 (81.28)	3.32 (84.32)	S4641-ND	9.84	81.55	520.22	PPPC332KFMS
	68	3.30 (83.82)	3.42 (86.86)	S4642-ND	10.14	84.01	535.95	PPPC342KFMS
	70	3.40 (86.36)	3.52 (89.40)	S4643-ND	10.43	86.45	551.49	PPPC352KFMS
	72	3.50 (88.90)	3.62 (91.94)	S4644-ND	10.73	88.91	567.21	PPPC362KFMS
	74	3.60 (91.44)	3.72 (94.48)	S4645-ND	11.03	91.38	582.94	PPPC372KFMS
	76	3.70 (93.98)	3.82 (97.02)	S4646-ND	11.32	93.82	598.48	PPPC382KFMS
	78	3.80 (96.52)	3.92 (99.56)	S4647-ND	11.63	96.37	614.76	PPPC392KFMS
	80	3.90 (99.06)	4.02 (102.10)	S4648-ND	11.93	98.83	630.48	PPPC402KFMS
Fig. 6 — Dual Row Female Headers, SMT – RoHS Compliant								
Tin	4	.100 (2.54)	.220 (5.58)	S5672-ND	.90	7.48	47.73	NPTC022KFMS-RC
	6	.200 (5.08)	.320 (8.12)	S5673-ND	1.32	10.90	69.56	NPTC032KFMS-RC
	8	.300 (7.62)	.420 (10.66)	S5674-ND	1.47	12.21	77.89	NPTC042KFMS-RC
	10	.400 (10.16)	.520 (13.20)	S5675-ND	1.75	14.50	92.50	NPTC052KFMS-RC
	12	.500 (12.70)	.620 (15.74)	S5676-ND	2.11	17.46	111.37	NPTC062KFMS-RC
	14	.600 (15.24)	.720 (18.28)	S5677-ND	2.50	20.74	132.28	NPTC072KFMS-RC
	16	.700 (17.78)	.820 (20.82)	S5678-ND	2.72	22.50	143.56	NPTC082KFMS-RC
	18	.800 (20.32)	.920 (23.36)	S5679-ND	3.06	25.32	161.51	NPTC092KFMS-RC
	20	.900 (22.86)	1.02 (25.90)	S5680-ND	3.58	29.67	189.26	NPTC102KFMS-RC
	22	1.00 (25.40)	1.12 (28.44)	S5681-ND	3.32	27.52	175.57	NPTC112KFMS-RC
	24	1.10 (27.94)	1.22 (30.98)	S5682-ND	3.63	30.04	191.66	NPTC122KFMS-RC
	26	1.20 (30.48)	1.32 (33.52)	S5683-ND	3.93	32.57	207.76	NPTC132KFMS-RC
	28	1.30 (33.02)	1.42 (36.06)	S5684-ND	4.22	35.00	223.30	NPTC142KFMS-RC
	30	1.40 (35.56)	1.52 (38.60)	S5685-ND	4.53	37.53	239.39	NPTC152KFMS-RC
	32	1.50 (38.10)	1.62 (41.14)	S5686-ND	4.75	39.35	251.05	NPTC162KFMS-RC
	34	1.60 (40.64)	1.72 (43.68)	S5687-ND	5.04	41.79	266.59	NPTC172KFMS-RC
	36	1.70 (43.18)	1.82 (46.22)	S5688-ND	5.35	44.31	282.68	NPTC182KFMS-RC
	38	1.80 (45.72)	1.92 (48.76)	S5689-ND	5.64	46.75	298.22	NPTC192KFMS-RC
	40	1.90 (48.26)	2.02 (51.30)	S5690-ND	5.94	49.18	313.76	NPTC202KFMS-RC
	42	2.00 (50.80)	2.12 (53.84)	S5691-ND	6.03	49.97	318.76	NPTC212KFMS-RC
	44	2.10 (53.34)	2.22 (56.38)	S5692-ND	6.31	52.32	333.74	NPTC222KFMS-RC
	46	2.20 (55.88)	2.32 (58.92)	S5693-ND	6.60	54.69	348.91	NPTC232KFMS-RC
	48	2.30 (58.42)	2.42 (61.46)	S5694-ND	6.88	57.04	363.90	NPTC242KFMS-RC
	50	2.40 (60.96)	2.52 (64.00)	S5695-ND	7.18	59.48	379.44	NPTC252KFMS-RC
	52	2.50 (63.50)	2.62 (66.54)	S5696-ND	7.47	61.86	394.61	NPTC262KFMS-RC
	54	2.60 (66.04)	2.72 (69.08)	S5697-ND	7.75	64.21	409.59	NPTC272KFMS-RC
	56	2.70 (68.58)	2.82 (71.62)	S5698-ND	8.04	66.58	424.76	NPTC282KFMS-RC
	58	2.80 (71.12)	2.92 (74.16)	S5699-ND	8.32	68.96	439.93	NPTC292KFMS-RC
	60	2.90 (73.66)	3.02 (76.70)	S5700-ND	8.61	71.31	454.92	NPTC302KFMS-RC
	62	3.00 (76.20)	3.12 (79.24)	S5701-ND	8.90	73.75	470.46	NPTC312KFMS-RC
	64	3.10 (78.74)	3.22 (81.78)	S5702-ND	9.19	76.13	485.63	NPTC322KFMS-RC
	66	3.20 (81.28)	3.32 (84.32)	S5703-ND	9.47	78.47	500.61	NPTC332KFMS-RC
	68	3.30 (83.82)	3.42 (86.86)	S5704-ND	9.76	80.85	515.78	NPTC342KFMS-RC
	70	3.40 (86.36)	3.52 (89.40)	S5705-ND	10.04	83.20	530.77	NPTC352KFMS-RC
	72	3.50 (88.90)	3.62 (91.94)	S5706-ND	10.34	85.64	546.31	NPTC362KFMS-RC
	74	3.60 (91.44)	3.72 (94.48)	S5707-ND	10.62	88.02	561.48	NPTC372KFMS-RC
	76	3.70 (93.98)	3.82 (97.02)	S5708-ND	10.91	90.39	576.65	NPTC382KFMS-RC
	78	3.80 (96.52)	3.92 (99.56)	S5709-ND	11.19	92.74	591.63	NPTC392KFMS-RC
	80	3.90 (99.06)	4.02 (102.10)	S5710-ND	11.48	95.12	606.80	NPTC402KFMS-RC
Gold	4	.100 (2.54)	.220 (5.58)	S5711-ND	.90	7.48	47.73	NPPC022KFMS-RC
	6	.200 (5.08)	.320 (8.12)	S5712-ND	1.25	10.38	66.23	NPPC032KFMS-RC
	8	.300 (7.62)	.420 (10.66)	S5713-ND	1.47	12.21	77.89	NPPC042KFMS-RC
	10	.400 (10.16)	.520 (13.20)	S5714-ND	1.75	14.50	92.50	NPPC052KFMS-RC
	12	.500 (12.70)	.620 (15.74)	S5715-ND	2.11	17.46	111.37	NPPC062KFMS-RC
	14	.600 (15.24)	.720 (18.28)	S5716-ND	2.38	19.72	125.80	NPPC072KFMS-RC
	16	.700 (17.78)	.820 (20.82)	S5717-ND	2.72	22.50	143.56	NPPC082KFMS-RC
	18	.800 (20.32)	.920 (23.36)	S5718-ND	2.91	24.07	153.55	NPPC092KFMS-RC
	20	.900 (22.86)	1.02 (25.90)	S5719-ND	3.58	29.67	189.26	NPPC102KFMS-RC
	22	1.00 (25.40)	1.12 (28.44)	S5720-ND	3.32	27.52	175.57	NPPC112KFMS-RC
	24	1.10 (27.94)	1.22 (30.98)	S5721-ND	3.63	30.04	191.66	NPPC122KFMS-RC
	26	1.20 (30.48)	1.32 (33.52)	S5722-ND	3.93	32.57	207.76	NPPC132KFMS-RC
	28	1.30 (33.02)	1.42 (36.06)	S5723-ND	4.22	35.00	223.30	NPPC142KFMS-RC
	30	1.40 (35.56)	1.52 (38.60)	S5724-ND	4.53	37.53	239.39	NPPC152KFMS-RC
	32	1.50 (38.10)	1.62 (41.14)	S5725-ND	4.75	39.35	251.05	NPPC162KFMS-RC
	34	1.60 (40.64)	1.72 (43.68)	S5726-ND	5.04	41.79	266.59	NPPC172KFMS-RC
	36	1.70 (43.18)	1.82 (46.22)	S5727-ND	5.35	44.31	282.68	NPPC182KFMS-RC
	38	1.80 (45.72)	1.92 (48.76)	S5728-ND	5.64	46.75	298.22	NPPC192KFMS-RC
	40	1.90 (48.26)	2.02 (51.30)	S5729-ND	5.94	49.18	313.76	NPPC202KFMS-RC
	42	2.00 (50.80)	2.12 (53.84)	S5730-ND	6.03	49.97	318.76	NPPC212KFMS-RC
	44	2.10 (53.34)	2.22 (56.38)	S5731-ND	6.31	52.32	333.74	NPPC222KFMS-RC
	46	2.20 (55.88)	2.32 (58.92)	S5732-ND	6.60	54.69	348.91	NPPC232KFMS-RC
	48	2.30 (58.42)	2.42 (61.46)	S5733-ND	6.88	57.04	363.90	NPPC242KFMS-RC
	50	2.40 (60.96)	2.52 (64.00)	S5734-ND	7.18	59.48	379.44	NPPC252KFMS-RC
	52	2.50 (63.50)	2.62 (66.54)	S5735-ND	7.47	61.86	394.61	NPPC262KFMS-RC
	54	2.60 (66.04)	2.72 (69.08)	S5736-ND	7.75	64.21	409.59	NPPC272KFMS-RC
	56	2.70 (68.58)	2.82 (71.62)	S5737-ND	8.04	66.58	424.76	NPPC282KFMS-RC
	58	2.80 (71.12)	2.92 (74.16)	S5738-ND	8.32	68.96	439.93	NPPC292KFMS-RC
	60	2.90 (73.66)	3.02 (76.70)	S5739-ND	8.61	71.31	454.92	NPPC302KFMS-RC
	62	3.00 (76.20)	3.12 (79.24)	S5740-ND	8.90	73.75	470.46	NPPC312KFMS-RC
	64	3.10 (78.74)	3.22 (81.78)	S5741-ND	9.19	76.13	485.63	NPPC322KFMS-RC
	66	3.20 (81.28)	3.32 (84.32)	S5742-ND	9.47	78.47	500.61	NPPC332KFMS-RC
	68	3.30 (83.82)	3.42 (86.86)	S5743-ND	9.76	80.85	515.78	NPPC342KFMS-RC
	70	3.40 (86.36)	3.52 (89.40)	S5744-ND	10.04	83.20	530.77	NPPC352KFMS-RC
	72	3.50 (88.90)	3.62 (91.94)	S5745-ND	10.34	85.64	546.31	NPPC362KFMS-RC
	74	3.60 (91.44)	3.72 (94.48)	S5746-ND	10.62	88.02	561.48	NPPC372KFMS-RC
	76	3.70 (93.98)	3.82 (97.02)	S5747-ND	10.91	90.39	576.65	NPPC382KFMS-RC
	78	3.80 (96.52)	3.92 (99.56)	S5748-ND	11.19	92.74	591.63	NPPC392KFMS-RC
	80	3.90 (99.06)	4.02 (102.10)	S5749-ND	11.48	95.12	606.80	NPPC402KFMS-RC

SULLINS CONNECTOR SOLUTIONS

.1” (2.54mm) SMT Male Headers

RoHS COMPLIANT

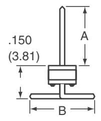

Single Straight

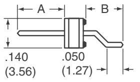

Single Right Angle

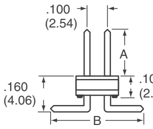

Dual Straight

Features:

• .025” (.64mm) square pins • Available in 36-pin version or 1 ~ 35 size to meet your application • Temperature: -65°C ~ 125°C • UL Flammability Rating: 94V-0 • Current Rating: 3 amperes

Materials:

• Insulator Material: Black thermoplastic polyester • Contact Material: CA510, phosphor bronze • Contact Plating: **Head**: GTC, GEC – .00010” Tin; GZC, GBC – .000010” Gold; **Tail**: .00010” Tin

***TO PURCHASE A
36 PIN HEADER...***

Contact Finish	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
	A	B		1	10	100	
Single Row Straight SMT (36 Pins)							
Tin	0.230 (5.84)	0.320 (8.13)	S1013E-36-ND	3.90	34.94	287.70	GEC36SABN-M30
	0.318 (8.08)	0.300 (7.62)	S1023E-36-ND	4.33	38.76	319.20	GEC36SFBN-M30
Gold	0.230 (5.84)	0.320 (8.13)	S1033E-36-ND	4.42	39.53	325.50	GBC36SABN-M30
	0.318 (8.08)	0.300 (7.62)	S1043E-36-ND	5.04	45.14	371.70	GBC36SFBN-M30
Single Row Right-Angle SMT (36 Pins)							
Tin	0.230 (5.84)	0.180 (4.57)	S1113E-36-ND	3.33	29.84	245.70	GEC36SBSN-M89
	0.318 (8.08)	0.180 (4.57)	S1123E-36-ND	3.53	31.62	260.40	GEC36SGSN-M89
Gold	0.230 (5.84)	0.180 (4.57)	S1133E-36-ND	4.73	42.33	348.60	GBC36SBSN-M89
	0.318 (8.08)	0.180 (4.57)	S1143E-36-ND	3.93	35.19	289.80	GBC36SGSN-M89
Dual Row Straight SMT (72 Pins)							
Tin	0.230 (5.84)	0.420 (10.69)	S2331E-36-ND	5.33	47.69	392.70	GEC36DABN-M30
	0.318 (8.08)	0.400 (10.16)	S2341E-36-ND	6.50	58.14	478.80	GEC36DFBN-M30
Gold	0.230 (5.84)	0.420 (10.69)	S2351E-36-ND	6.27	56.10	462.00	GBC36DABN-M30
	0.318 (8.08)	0.400 (10.16)	S2361E-36-ND	7.84	70.13	577.50	GBC36DFBN-M30

***TO PURCHASE A
CUSTOM PIN HEADER...***

STEP 1	STEP 2	STEP 3
Digi-Key Part No.	Base Price	Pin Adder
Single Row Straight (36 Pins)		
S1013E-XX-ND	1.64	.07
S1023E-XX-ND	1.75	.08
S1033E-XX-ND	1.82	.08
S1043E-XX-ND	2.10	.09
Single Row Right-Angle (36 Pins)		
S1113E-XX-ND	1.34	.06
S1123E-XX-ND	1.52	.06
S1133E-XX-ND	1.71	.09
S1143E-XX-ND	1.57	.07
Dual Row Straight (72 Pins)		
S2331E-XX-ND	2.14	.10
S2341E-XX-ND	2.69	.24
S2351E-XX-ND	2.44	.12
S2361E-XX-ND	3.05	.30

HOW TO ORDER:
4 EASY STEPS

How do I order an S1013E header with 16 pins?

**Call Digi-Key for pricing,
or determine the cost yourself
following the steps below.**

S □□□□□ - □□ - ND

Base Part Number — Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate “Base Price” of your selected part number (refer to chart).

Step 3. Multiply the number of pins you desire (minus one) by the “Pin Adder” of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1.	S1013E-16-ND	
Step 2.	1.64	*(1 pin – Base Price)*
Step 3.	15 x .07 = 1.05	*(15 pins – Pin Adder)*
Step 4.	Your Cost = $2.69	*(16 pins – Total)*

***NOTE:* For quantities of 10 or more, call DIGI-KEY.**

.1” (2.54mm) Male Headers

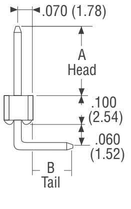

Single Right Angle

Single Row

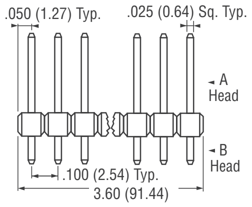

Features

• .025” (.64mm) square pins • Available in 36-pin version or 1 to 35 size to meet your application • Temperature: -65°C ~ 125°C

• UL Flammability Rating: 94V-0 • Current Rating: 3 amperes

Materials

• Insulator Material: Black thermoplastic polyester • Contact Material: CA510, phosphor bronze • Contact Plating: **Head**: .00010” Tin (PTC), .000010” Gold (PZC). **Tail**: .00010” Tin

***TO PURCHASE A
36 PIN HEADER...***

Contact Finish	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
	A	B		1	10	100	
Single Row Right-Angle (36 Pins)							
Tin	.318 (8.08)	.200 (5.08)	S1322-36-ND	3.48	31.11	256.20	PTC36SGBN
Shorting Jumpers – RoHS Compliant							
Tin	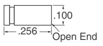		S9000-ND	—	.87	—	STC02SYAN
Au Flash			S9001-ND	—	.87	—	SPC02SYAN
Gold			S9002-ND	—	1.31	—	SSC02SYAN

***TO PURCHASE A
CUSTOM PIN HEADER...***

STEP 1	STEP 2	STEP 3
Digi-Key Part No.	Base Price	Pin Adder
Single Row Right-Angle (36 Pins)		
S1322-XX-ND	1.31	.07

HOW TO ORDER:
4 EASY STEPS

How do I order an S1322 header with 16 pins?

**Call Digi-Key for pricing,
or determine the cost yourself
following the steps below.**

S □□□□ - □□ - ND

Base Part Number — Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate “Base Price” of your selected part number (refer to chart).

Step 3. Multiply the number of pins you desire (minus one) by the “Pin Adder” of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1.	S1322-16-ND	
Step 2.	1.31	*(1 pin – Base Price)*
Step 3.	15 x .07 = 1.05	*(15 pins – Pin Adder)*
Step 4.	Your Cost = $2.36	*(16 pins – Total)*

***NOTE:* For quantities of 10 or more, call DIGI-KEY.**

.1” (2.54mm) Male Headers

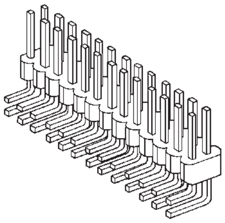

Available in 1 to 36 Pin Versions!

Features

• .025” (.64mm) square pins • Available in 36-pin version or 1 to 35 size to meet your application • Temperature: -65°C ~ 125°C • UL Flammability Rating: 94V-0 • Current Rating: 3 amperes

Materials

• Insulator Material: Black thermoplastic polyester • Contact Material: CA510, phosphor bronze • Contact Plating: **Head**: PEC — .00010” Tin; PBC — .000010”; **Tail**: .00010” Tin

TO PURCHASE A 36 PIN HEADER...

Contact Finish	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
	A	B		1	10	100	
Single Row Straight (36 Pins)							
Tin	.230 (5.84)	.120 (3.05)	S1012E-36-ND	1.25	11.22	92.40	PEC36SAAN
	.230 (5.84)	.230 (5.84)	S1022E-36-ND	2.17	19.38	159.60	PEC36SABN
	.230 (5.84)	.320 (8.13)	S1032E-36-ND	2.34	20.91	172.20	PEC36SACN
	.230 (5.84)	.420 (10.67)	S1042E-36-ND	2.51	22.44	184.80	PEC36SADN
	.230 (5.84)	.520 (13.21)	S1052E-36-ND	2.74	24.48	201.60	PEC36SAEN
	.230 (5.84)	.620 (15.75)	S1062E-36-ND	3.39	30.35	249.90	PEC36SAFN
	.230 (5.84)	.720 (18.29)	S1072E-36-ND	3.56	31.88	262.50	PEC36SAGN
	.230 (5.84)	.820 (20.83)	S1082E-36-ND	3.76	33.66	277.20	PEC36SAHN
	.318 (8.08)	.120 (3.05)	S1212E-36-ND	1.60	14.28	117.60	PEC36SFAN
	.318 (8.08)	.220 (5.59)	S1222E-36-ND	2.54	22.70	186.90	PEC36SFBN
	.318 (8.08)	.320 (8.13)	S1232E-36-ND	2.79	24.99	205.80	PEC36SFCN
	.318 (8.08)	.420 (10.67)	S1242E-36-ND	2.99	26.78	220.50	PEC36SFDN
	.318 (8.08)	.520 (13.21)	S1252E-36-ND	4.05	36.21	298.20	PEC36SFEN
Gold	.230 (5.84)	.120 (3.05)	S1011E-36-ND	1.60	14.28	117.60	PBC36SAAN
	.230 (5.84)	.230 (5.84)	S1021E-36-ND	2.59	23.21	191.10	PBC36SABN
	.230 (5.84)	.320 (8.13)	S1031E-36-ND	2.82	25.25	207.90	PBC36SACN
	.230 (5.84)	.420 (10.67)	S1041E-36-ND	2.99	26.78	220.50	PBC36SADN
	.230 (5.84)	.520 (13.21)	S1051E-36-ND	3.16	28.31	233.10	PBC36SAEN
	.230 (5.84)	.620 (15.75)	S1061E-36-ND	3.85	34.43	283.50	PBC36SAFN
	.230 (5.84)	.720 (18.29)	S1071E-36-ND	4.10	36.72	302.40	PBC36SAGN
	.230 (5.84)	.820 (20.83)	S1081E-36-ND	4.28	38.25	315.00	PBC36SAHN
	.318 (8.08)	.120 (3.05)	S1211E-36-ND	1.97	17.60	144.90	PBC36SFAN
	.318 (8.08)	.220 (5.59)	S1221E-36-ND	3.14	28.05	231.00	PBC36SFBN
	.318 (8.08)	.320 (8.13)	S1231E-36-ND	3.39	30.35	249.90	PBC36SFCN
	.318 (8.08)	.420 (10.67)	S1241E-36-ND	3.56	31.88	262.50	PBC36SFDN
	.318 (8.08)	.520 (13.21)	S1251E-36-ND	4.70	42.08	346.50	PBC36SFEN
Single Row Right-Angle (36 Pins)							
Tin	.230 (5.84)	.100 (2.54)	S1112E-36-ND	1.82	16.32	134.40	PEC36SBAN
	.230 (5.84)	.200 (5.08)	S1122E-36-ND	2.37	21.17	174.30	PEC36SBBN
	.230 (5.84)	.300 (7.62)	S1132E-36-ND	3.42	30.60	252.00	PEC36SBCN
	.230 (5.84)	.400 (10.16)	S1142E-36-ND	4.59	41.06	338.10	PEC36SBDN
	.230 (5.84)	.500 (12.70)	S1152E-36-ND	4.87	43.61	359.10	PEC36SBEN
	.318 (8.08)	.100 (2.54)	S1312E-36-ND	2.37	21.17	174.30	PEC36SGAN
	.318 (8.08)	.200 (5.08)	S1322E-36-ND	4.22	37.74	310.80	PEC36SGBN
Gold	.230 (5.84)	.100 (2.54)	S1111E-36-ND	2.22	19.89	163.80	PBC36SBAN
	.230 (5.84)	.200 (5.08)	S1121E-36-ND	2.79	24.99	205.80	PBC36SBBN
	.230 (5.84)	.300 (7.62)	S1131E-36-ND	3.93	35.19	289.80	PBC36SBCN
	.230 (5.84)	.400 (10.16)	S1141E-36-ND	5.19	46.41	382.20	PBC36SBDN
	.230 (5.84)	.500 (12.70)	S1151E-36-ND	5.47	48.96	403.20	PBC36SBEN
	.318 (8.08)	.100 (2.54)	S1311E-36-ND	2.85	25.50	210.00	PBC36SGAN
	.318 (8.08)	.200 (5.08)	S1321E-36-ND	4.87	43.61	359.10	PBC36SGBN
Dual Row Straight (72 Pins)							
Tin	.230 (5.84)	.120 (3.05)	S2012E-36-ND	2.28	20.40	168.00	PEC36DAAN
	.230 (5.84)	.230 5.84)	S2022E-36-ND	3.39	30.35	249.90	PEC36DABN
	.230 (5.84)	.320 (8.13)	S2032E-36-ND	4.82	43.10	354.90	PEC36DACN
	.230 (5.84)	.420 (10.67)	S2042E-36-ND	5.24	46.92	386.40	PEC36DADN
	.230 (5.84)	.520 (13.21)	S2052E-36-ND	5.61	50.24	413.70	PEC36DAEN
	.230 (5.84)	.620 (15.75)	S2062E-36-ND	7.24	64.77	533.40	PEC36DAFN
	.230 (5.84)	.720 (18.29)	S2072E-36-ND	7.70	68.85	567.00	PEC36DAGN
	.230 (5.84)	.820 (20.83)	S2082E-36-ND	8.18	73.19	602.70	PEC36DAHN
	.318 (8.08)	.120 (3.05)	S2212E-36-ND	2.85	25.50	210.00	PEC36DFAN
	.318 (8.08)	.220 (5.59)	S2222E-36-ND	4.42	39.53	325.50	PEC36DFBN
	.318 (8.08)	.320 (8.13)	S2232E-36-ND	4.85	43.35	357.00	PEC36DFCN
	.318 (8.08)	.420 (10.67)	S2242E-36-ND	5.27	47.18	388.50	PEC36DFDN
	.318 (8.08)	.520 (13.21)	S2252E-36-ND	6.78	60.69	499.80	PEC36DFEN
Gold	.230 (5.84)	.120 (3.05)	S2011E-36-ND	2.88	25.76	212.10	PBC36DAAN
	.230 (5.84)	.230 (5.84)	S2021E-36-ND	4.22	37.74	310.80	PBC36DABN
	.230 (5.84)	.320 (8.13)	S2031E-36-ND	5.87	52.53	432.60	PBC36DACN
	.230 (5.84)	.420 (10.67)	S2041E-36-ND	6.24	55.85	459.90	PBC36DADN
	.230 (5.84)	.520 (13.21)	S2051E-36-ND	6.67	59.67	491.40	PBC36DAEN
	.230 (5.84)	.620 (15.75)	S2061E-36-ND	8.38	74.97	617.40	PBC36DAFN
	.230 (5.84)	.720 (18.29)	S2071E-36-ND	8.86	79.31	653.10	PBC36DAGN
	.230 (5.84)	.820 (20.83)	S2081E-36-ND	9.35	83.64	688.80	PBC36DAHN
	.318 (8.08)	.120 (3.05)	S2211E-36-ND	3.68	32.90	270.90	PBC36DFAN
	.318 (8.08)	.220 (5.59)	S2221E-36-ND	5.59	49.98	411.60	PBC36DFBN
	.318 (8.08)	.320 (8.13)	S2231E-36-ND	6.01	53.81	443.10	PBC36DFCN
	.318 (8.08)	.420 (10.67)	S2241E-36-ND	6.47	57.89	476.70	PBC36DFDN
	.318 (8.08)	.520 (13.21)	S2251E-36-ND	8.12	72.68	598.50	PBC36DFEN
Dual Row Right-Angle (72 Pins)							
Tin	.230 (5.84)	.100 (2.54)	S2112E-36-ND	3.42	30.60	252.00	PEC36DBAN
	.230 (5.84)	.200 (5.08)	S2122E-36-ND	4.90	43.86	361.20	PEC36DBBN
	.230 (5.84)	.300 (7.62)	S2132E-36-ND	7.38	66.05	543.90	PEC36DBCN
	.230 (5.84)	.400 (10.16)	S2142E-36-ND	8.18	73.19	602.70	PEC36DBDN
	.230 (5.84)	.500 (12.70)	S2152E-36-ND	8.89	79.56	655.20	PEC36DBEN
	.318 (8.08)	.100 (2.54)	S2312E-36-ND	6.50	58.14	478.80	PEC36DGAN
	.318 (8.08)	.200 (5.08)	S2322E-36-ND	7.98	71.40	588.00	PEC36DGBN
Gold	.230 (5.84)	.100 (2.54)	S2111E-36-ND	4.16	37.23	306.60	PBC36DBAN
	.230 (5.84)	.200 (5.08)	S2121E-36-ND	5.84	52.28	430.50	PBC36DBBN
	.230 (5.84)	.300 (7.62)	S2131E-36-ND	8.58	76.76	632.10	PBC36DBCN
	.230 (5.84)	.400 (10.16)	S2141E-36-ND	9.32	83.39	686.70	PBC36DBDN
	.230 (5.84)	.500 (12.70)	S2151E-36-ND	10.03	89.76	739.20	PBC36DBEN
	.318 (8.08)	.100 (2.54)	S2311E-36-ND	7.67	68.60	564.90	PBC36DGAN
	.318 (8.08)	.200 (5.08)	S2321E-36-ND	9.35	83.64	688.80	PBC36DGBN
Shorting Jumpers							
Tin Au Flash Gold	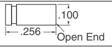 .100 .256 Open End		S9000-ND S9001-ND S9002-ND	— — —	.87 .87 1.31	— — —	STC02SYAN SPC02SYAN SSC02SYAN

TO PURCHASE A CUSTOM PIN HEADER...

STEP 1 Digi-Key Part No.	STEP 2 Base Price	STEP 3 Pin Adder
Single Row Straight (36 Pins)		
S1012E-XX-ND	.41	.02
S1022E-XX-ND	.86	.03
S1032E-XX-ND	1.00	.03
S1042E-XX-ND	1.18	.03
S1052E-XX-ND	1.33	.03
S1062E-XX-ND	1.57	.04
S1072E-XX-ND	1.42	.05
S1082E-XX-ND	1.60	.05
S1212E-XX-ND	.68	.02
S1222E-XX-ND	1.22	.03
S1232E-XX-ND	1.40	.03
S1242E-XX-ND	1.24	.04
S1252E-XX-ND	1.47	.06
S1011E-XX-ND	.68	.02
S1021E-XX-ND	1.25	.03
S1031E-XX-ND	1.43	.03
S1041E-XX-ND	1.24	.04
S1051E-XX-ND	1.42	.04
S1061E-XX-ND	1.68	.05
S1071E-XX-ND	1.52	.06
S1081E-XX-ND	1.70	.06
S1211E-XX-ND	.70	.03
S1221E-XX-ND	1.39	.04
S1231E-XX-ND	1.57	.04
S1241E-XX-ND	1.42	.05
S1251E-XX-ND	2.04	.06
Single Row Right-Angle (36 Pins)		
S1112E-XX-ND	.92	.02
S1122E-XX-ND	1.04	.03
S1132E-XX-ND	1.60	.04
S1142E-XX-ND	1.95	.06
S1152E-XX-ND	1.88	.07
S1312E-XX-ND	1.04	.03
S1322E-XX-ND	1.65	.06
S1111E-XX-ND	.91	.03
S1121E-XX-ND	1.40	.03
S1131E-XX-ND	1.37	.06
S1141E-XX-ND	2.13	.07
S1151E-XX-ND	2.39	.07
S1311E-XX-ND	1.46	.03
S1321E-XX-ND	1.88	.07
Dual Row Straight (72 Pins)		
S2012E-XX-ND	.94	.03
S2022E-XX-ND	1.57	.04
S2032E-XX-ND	1.82	.07
S2042E-XX-ND	2.18	.07
S2052E-XX-ND	2.21	.08
S2062E-XX-ND	2.92	.10
S2072E-XX-ND	2.97	.11
S2082E-XX-ND	3.36	.11
S2212E-XX-ND	1.46	.03
S2222E-XX-ND	1.83	.06
S2232E-XX-ND	1.85	.07
S2242E-XX-ND	2.21	.07
S2252E-XX-ND	2.87	.09
S2011E-XX-ND	1.49	.04
S2021E-XX-ND	1.65	.06
S2031E-XX-ND	2.39	.08
S2041E-XX-ND	2.41	.09
S2051E-XX-ND	2.77	.09
S2061E-XX-ND	3.23	.12
S2071E-XX-ND	3.63	.12
S2081E-XX-ND	3.71	.13
S2211E-XX-ND	1.50	.05
S2221E-XX-ND	2.18	.08
S2231E-XX-ND	2.54	.08
S2241E-XX-ND	2.56	.09
S2251E-XX-ND	3.33	.11
Dual Row Right-Angle (72 Pins)		
S2112E-XX-ND	1.60	.04
S2122E-XX-ND	1.91	.07
S2132E-XX-ND	2.73	.11
S2142E-XX-ND	3.36	.11
S2152E-XX-ND	3.66	.12
S2312E-XX-ND	2.59	.09
S2322E-XX-ND	3.23	.11
S2111E-XX-ND	1.59	.06
S2121E-XX-ND	2.36	.08
S2131E-XX-ND	3.41	.12
S2141E-XX-ND	3.68	.13
S2151E-XX-ND	3.97	.14
S2311E-XX-ND	2.94	.11
S2321E-XX-ND	3.71	.13

How To Order — 4 Easy Steps

How do I order an S1012E header with 16 pins?

Call Digi-Key where you’ll receive the price.

or

Determine the cost yourself

S □□□□ E - □□ - ND

Base Part Number

Number of Desired Pins per row

Step 1. **Select needed “Digi-Key Part Number” and number of pins desired.**

Step 2. **Begin with appropriate “Base Price” of your selected Part Number (refer to chart).**

Step 3. **Multiply the number of pins you desire (minus one) by “Pin Adder” of your selected Part Number (refer to chart).**

Step 4. **Add Step 2 and Step 3 together for Final Cost.**

	Our Example	*Your Digi-Key Part Number*
Step 1.	S1012E-16-ND	S _ _ _ _ E - _ _ - ND
Step 2.	.41	_____
Step 3.	15 x .02 = .30	___ x ___ = _____
Step 4.	Your Cost = $.71	Your Cost = _____

NOTE: For quantities of 10 or more, call DIGI-KEY.

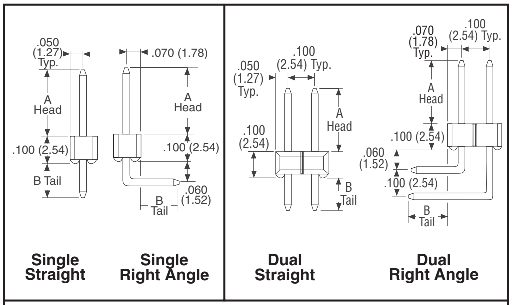

Single Straight **Single Right Angle** **Dual Straight** **Dual Right Angle**

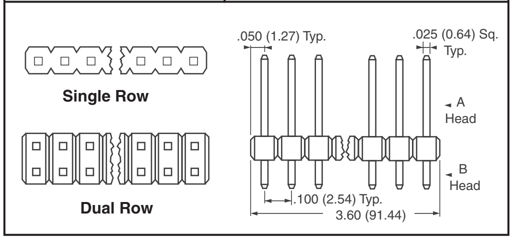

Single Row **Dual Row**

FCI BergStik™ .100” (2.54mm) Headers

Fig.	No. of Positions	Plating	Dimensions - Inches (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	FCI Part No.
					Straight Single Row				
1	36	30µ” Gold 15µ” Gold Tin	0.230 (5.84)	0.120 (3.05)	609-2222-ND 609-2223-ND 609-2224-ND	1.51 1.45 1.31	21.65 20.36 17.61	76.81 69.82 63.73	68001-136HLF 68001-236HLF 68001-436HLF
					Right Angle Single Row				
2	36	30µ” Gold 15µ” Gold Tin	0.230 (5.84)	0.120 (3.05)	609-2225-ND 609-2226-ND 609-2227-ND	2.37 1.87 1.35	32.00 25.96 18.17	111.98 90.84 62.30	68016-136HLF 68016-236HLF 68016-436HLF
					Straight Dual Row				
3	72	30µ” Gold 15µ” Gold Tin	0.230 (5.84)	0.120 (3.05)	609-2219-ND 609-2220-ND 609-2221-ND	2.77 2.39 1.23	41.14 35.26 16.69	147.24 125.13 58.40	67997-172HLF 67997-272HLF 67997-472HLF
					Right Angle Dual Row				
4	72	30µ” Gold 15µ” Gold Tin	0.230 (5.84)	0.120 (3.05)	609-2228-ND 609-2229-ND 609-2230-ND	3.51 2.90 3.49	54.08 44.44 51.36	190.61 159.04 177.69	68021-172HLF 68021-272HLF 68021-472HLF
					Straight Dual Row SMT				
5	40	30µ” Gold 15µ” Gold Tin	0.230 (5.84)	—	609-2231-ND 609-2232-ND 609-3124-ND ***NEW!***	1.29 1.31 1.27	20.09 20.33 19.71	72.76 73.63 71.41	95157-140LF 95157-240LF 95157-440LF

Fig.	Housing Color	Plating	Dimensions - Inches (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	100	FCI Part No.
						Shunts				
6	White	30µ” Gold	0.236 (6.0)	0.199 (5.05)	0.098 (2.49)	609-2997-ND	.21	2.31	7.10	63429-202LF
	Blue	Tin 30µ” Gold 40µ” Gold	0.385 (9.78)	0.205 (5.21)	0.100 (2.54)	609-2215-ND 609-2216-ND 609-2835-ND	.33 .53 .61	3.87 6.26 7.53	12.02 19.42 24.08	65474-002LF 65474-010LF 65474-001LF
	Black	15µ” Gold 30µ” Gold Tin	0.200 (5.08)	0.198 (5.03)	0.098 (2.49)	609-3121-ND ***NEW!*** 609-2217-ND 609-2218-ND	.21 .27 .28	2.29 2.99 3.11	6.95 9.26 9.43	68786-102LF 68786-202LF 68786-302LF
	Black	15µ” Gold 30µ” Gold	0.360 (9.15)	0.198 (5.03)	0.098 (2.49)	609-2462-ND 609-2463-ND	.29 .32	3.19 3.50	10.20 10.72	71363-102LF 71363-202LF

Fig. 1

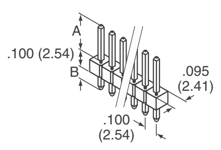

Fig. 2

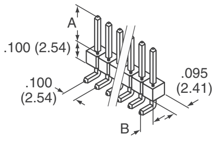

Fig. 3

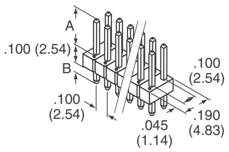

Fig. 4

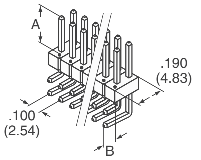

Fig. 5

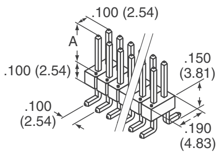

Fig. 6

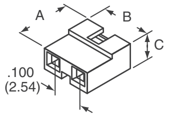

.100” (2.54mm) PCB Mounted Receptacles

Fig. 1

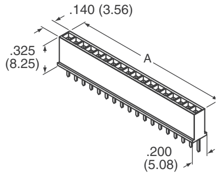

Fig. 2

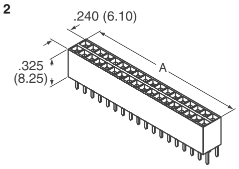

Fig. 3

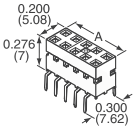

Fig. 4

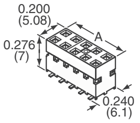

Fig.	No. of Positions	Dim. - Inch (mm) A	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
			Vertical Single Row				
1	3	0.30 (7.62)	609-2233-ND	1.80	.93	.79	66951-003LF
	4	0.40 (10.16)	609-2234-ND	2.45	1.26	1.06	66951-004LF
	5	0.50 (12.70)	609-2235-ND	2.28	1.31	1.13	66951-005LF
	6	0.60 (15.24)	609-2236-ND	2.48	1.40	1.20	66951-006LF
	7	0.70 (17.78)	609-2237-ND	2.33	1.29	1.08	66951-007LF
	8	0.80 (20.32)	609-2238-ND	2.55	1.42	1.24	66951-008LF
	9	0.90 (22.86)	609-2239-ND	5.07	3.00	2.67	66951-009LF
	10	1.00 (25.40)	609-2240-ND	2.14	1.26	1.09	66951-010LF
	11	1.10 (27.94)	609-2241-ND	5.77	3.46	3.02	66951-011LF
	12	1.20 (30.48)	609-2242-ND	4.09	2.42	2.15	66951-012LF
	13	1.30 (33.02)	609-2243-ND	3.19	1.92	1.67	66951-013LF
	14	1.40 (35.56)	609-2244-ND	3.48	2.09	1.83	66951-014LF
	15	1.50 (38.10)	609-2245-ND	8.25	4.90	4.39	66951-015LF
	16	1.60 (40.64)	609-2246-ND	4.18	2.57	2.30	66951-016LF
	17	1.70 (43.18)	609-2247-ND	5.40	3.32	2.88	66951-017LF
	18	1.80 (45.72)	609-2248-ND	3.98	2.46	2.17	66951-018LF
	19	1.90 (48.26)	609-2249-ND	5.10	3.15	2.77	66951-019LF
	20	2.00 (50.80)	609-2250-ND	5.09	3.14	2.77	66951-020LF
	21	2.10 (53.34)	609-2251-ND	3.43	2.12	1.87	66951-021LF
	22	2.20 (55.88)	609-2252-ND	3.14	2.09	1.87	66951-022LF
	23	2.30 (58.42)	609-2253-ND	3.20	2.13	1.91	66951-023LF
	24	2.40 (60.96)	609-2254-ND	6.29	3.91	3.54	66951-024LF
	25	2.50 (63.50)	609-2255-ND	8.00	4.94	4.35	66951-025LF
	26	2.60 (66.04)	609-2256-ND	3.62	2.25	2.04	66951-026LF
	27	2.70 (68.58)	609-2257-ND	3.94	2.54	2.26	66951-027LF
	28	2.80 (71.12)	609-2258-ND	6.16	3.80	3.35	66951-028LF
	29	2.90 (73.66)	609-2259-ND	4.27	2.67	2.45	66951-029LF
	30	3.00 (76.20)	609-2260-ND	9.17	5.66	4.99	66951-030LF
	31	3.10 (78.74)	609-2261-ND	4.06	2.59	2.37	66951-031LF
	32	3.20 (81.28)	609-2262-ND	7.67	4.77	4.32	66951-032LF
	33	3.30 (83.82)	609-2263-ND	7.24	4.82	4.32	66951-033LF
	34	3.40 (86.36)	609-2264-ND	4.16	2.77	2.48	66951-034LF
	35	3.50 (88.90)	609-2265-ND	9.54	6.35	5.69	66951-035LF
	36	3.60 (91.44)	609-2266-ND	8.27	5.27	4.82	66951-036LF
			Vertical Dual Row				
2	6	0.30 (7.62)	609-2267-ND	1.75	.98	.86	66953-003LF
	8	0.40 (10.16)	609-2268-ND	4.86	2.69	2.31	66953-004LF
	10	0.50 (12.70)	609-2269-ND	2.92	1.63	1.42	66953-005LF
	12	0.60 (15.24)	609-2270-ND	4.32	2.55	2.20	66953-006LF
2	14	0.70 (17.78)	609-2271-ND	3.72	2.20	1.95	66953-007LF
	16	0.80 (20.32)	609-2272-ND	2.63	1.58	1.38	66953-008LF
	18	0.90 (22.86)	609-2273-ND	2.91	1.73	1.55	66953-009LF
	20	1.00 (25.40)	609-2274-ND	3.75	2.30	2.00	66953-010LF
	22	1.10 (27.94)	609-2275-ND	5.15	3.18	2.81	66953-011LF
	24	1.20 (30.48)	609-2276-ND	5.10	3.15	2.78	66953-012LF
	26	1.30 (33.02)	609-2277-ND	5.19	3.23	2.92	66953-013LF
	28	1.40 (35.56)	609-2278-ND	4.61	2.86	2.59	66953-014LF
	30	1.50 (38.10)	609-2279-ND	4.86	3.02	2.74	66953-015LF
	32	1.60 (40.64)	609-2280-ND	4.90	3.07	2.80	66953-016LF
	34	1.70 (43.18)	609-2281-ND	6.38	3.96	3.59	66953-017LF
	36	1.80 (45.72)	609-2282-ND	8.63	5.50	5.02	66953-018LF
	38	1.90 (48.26)	609-2283-ND	7.11	4.62	4.22	66953-019LF
	40	2.00 (50.80)	609-2284-ND	7.04	4.48	4.10	66953-020LF
	42	2.10 (53.34)	609-2285-ND	5.70	3.79	3.40	66953-021LF
	44	2.20 (55.88)	609-2286-ND	9.12	6.07	5.44	66953-022LF
	46	2.30 (58.42)	609-2287-ND	6.52	4.34	3.89	66953-023LF
	48	2.40 (60.96)	609-2288-ND	6.13	4.08	3.66	66953-024LF
	50	2.50 (63.50)	609-2289-ND	6.50	4.33	3.88	66953-025LF
	52	2.60 (66.04)	609-2290-ND	6.54	4.36	3.90	66953-026LF
	54	2.70 (68.58)	609-2291-ND	8.55	5.55	5.07	66953-027LF
	56	2.80 (71.12)	609-2292-ND	7.12	4.93	4.36	66953-028LF
	58	2.90 (73.65)	609-2293-ND	7.40	5.13	4.53	66953-029LF
	60	3.00 (76.20)	609-2294-ND	5.88	3.92	3.51	66953-030LF
	62	3.10 (78.74)	609-2295-ND	8.88	6.05	5.44	66953-031LF
	64	3.20 (81.28)	609-2296-ND	12.46	8.48	7.63	66953-032LF
	66	3.30 (83.82)	609-2297-ND	8.38	5.70	5.13	66953-033LF
	68	3.40 (86.36)	609-2298-ND	8.62	5.87	5.18	66953-034LF
	70	3.50 (88.90)	609-2299-ND	8.86	6.03	5.32	66953-035LF
	72	3.60 (91.44)	609-2300-ND	7.12	5.05	4.46	66953-036LF
			Vertical Dual Row - Dual Entry				
3	10	0.497 (12.62)	609-2998-ND	1.87	1.11	.96	71991-305LF
	12	0.597 (15.16)	609-3035-ND	2.15	1.28	1.13	71991-306LF
	14	0.697 (17.70)	609-3036-ND	2.44	1.47	1.28	71991-307LF
	16	0.797 (20.24)	609-3037-ND	2.70	1.61	1.44	71991-308LF
	18	0.897 (22.78)	609-2999-ND	2.90	1.78	1.55	71991-309LF
	20	0.997 (25.32)	609-3000-ND	3.16	1.95	1.72	71991-310LF
	22	1.097 (27.86)	609-3001-ND	3.37	2.09	1.84	71991-311LF
	24	1.197 (30.4)	609-3002-ND	3.56	2.21	2.00	71991-312LF
	26	1.297 (32.94)	609-3003-ND	3.85	2.40	2.17	71991-313LF
	28	1.397 (35.48)	609-3004-ND	4.15	2.58	2.34	71991-314LF
	30	1.497 (38.02)	609-3005-ND	4.29	2.77	2.46	71991-315LF
	32	1.597 (40.56)	609-3006-ND	4.58	2.87	2.62	71991-316LF
	34	1.697 (43.1)	609-3007-ND	4.87	3.05	2.79	71991-317LF
	36	1.797 (45.64)	609-3008-ND	4.58	2.87	2.62	71991-318LF
	38	1.897 (48.18)	609-3009-ND	5.24	3.40	3.11	71991-319LF
	40	1.997 (50.72)	609-3010-ND	5.32	3.54	3.17	71991-320LF
			Vertical Dual Row - Dual Entry SMD				
4	4	0.197 (5.0)	609-3038-ND	1.04	.55	.48	89898-302LF
	6	0.297 (7.54)	609-3039-ND	1.34	.73	.62	89898-303LF
	8	0.397 (10.08)	609-3040-ND	1.87	1.11	.96	89898-304LF
	10	0.497 (12.62)	609-3041-ND	2.29	1.36	1.20	89898-305LF
	12	0.597 (15.16)	609-3042-ND	1.95	1.15	1.00	89898-306LF
	16	0.797 (20.24)	609-3043-ND	2.48	1.49	1.30	89898-308LF
	20	0.997 (25.32)	609-3044-ND	3.59	2.23	2.02	89898-310LF
	22	1.097 (27.86)	609-3045-ND	3.15	1.95	1.72	89898-311LF
	24	1.197 (30.4)	609-3046-ND	3.44	2.12	1.87	89898-312LF
	26	1.297 (32.94)	609-3047-ND	3.60	2.24	2.03	89898-313LF
	28	1.397 (35.48)	609-3048-ND	3.87	2.41	2.18	89898-314LF
	30	1.497 (38.02)	609-3049-ND	4.89	3.12	2.85	89898-315LF
	32	1.597 (40.56)	609-3050-ND	4.28	2.75	2.45	89898-316LF
	34	1.697 (43.1)	609-3051-ND	5.23	3.49	3.13	89898-317LF
	36	1.797 (45.64)	609-3052-ND	4.81	3.01	2.75	89898-318LF
	38	1.897 (48.18)	609-3053-ND	4.99	3.18	2.91	89898-319LF
	40	1.997 (50.72)	609-3054-ND	5.15	3.35	3.06	89898-320LF

Crimp-to-Wire Mini-PV™ Receptacle Housings and Headers

Fig. 1

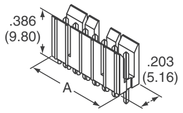

Fig. 2

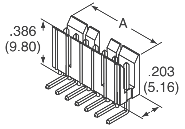

Fig. 3

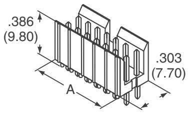

Fig. 4

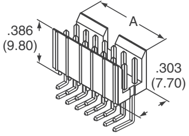

Fig. 5

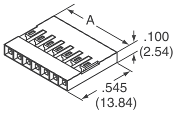

Shown without Polarizing Key

Fig. 6

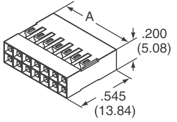

Shown without Polarizing Key

Fig.	No. of Positions	Dimension A Inch (mm)	Digi-Key Part No.	Price Each			FCI Part No.
				1	25	100	
Vertical Single Row Header							
1	3	0.30 (7.62)	609-2410-ND	.76	.37	.31	69167-103HLF
	4	0.40 (10.16)	609-2411-ND	.94	.47	.40	69167-104HLF
	5	0.50 (12.70)	609-2412-ND	1.08	.58	.49	69167-105HLF
	6	0.60 (15.24)	609-2413-ND	1.12	.62	.53	69167-106HLF
	7	0.70 (17.78)	609-2414-ND	1.32	.72	.62	69167-107HLF
	8	0.80 (20.32)	609-2415-ND	1.42	.77	.66	69167-108HLF
	9	0.90 (22.86)	609-2416-ND	1.47	.82	.70	69167-109HLF
	10	1.00 (25.40)	609-2417-ND	1.68	.91	.80	69167-110HLF
	11	1.10 (27.94)	609-2418-ND	1.87	1.07	.94	69167-111HLF
	12	1.20 (30.48)	609-2419-ND	1.54	.86	.75	69167-112HLF
	13	1.30 (33.02)	609-2420-ND	3.30	1.79	1.57	69167-113HLF
	14	1.40 (35.56)	609-2421-ND	1.66	.96	.83	69167-114HLF
	15	1.50 (38.10)	609-2422-ND	2.03	1.13	.98	69167-115HLF
Right Angle Single Row Header							
2	3	0.30 (7.62)	609-2449-ND	.76	.37	.31	78208-103HLF
	4	0.40 (10.16)	609-2450-ND	.96	.50	.42	78208-104HLF
	5	0.50 (12.70)	609-2451-ND	1.12	.59	.51	78208-105HLF
	6	0.60 (15.24)	609-2452-ND	1.22	.68	.57	78208-106HLF
	7	0.70 (17.78)	609-2453-ND	1.39	.75	.65	78208-107HLF
	8	0.80 (20.32)	609-2454-ND	1.55	.86	.74	78208-108HLF
	9	0.90 (22.86)	609-2455-ND	3.10	1.68	1.47	78208-109HLF
	10	1.00 (25.40)	609-2456-ND	1.83	1.02	.90	78208-110HLF
	11	1.10 (27.94)	609-2457-ND	1.96	1.12	.97	78208-111HLF
	12	1.20 (30.48)	609-2458-ND	1.58	.86	.75	78208-112HLF
	13	1.30 (33.02)	609-2459-ND	2.11	1.18	1.02	78208-113HLF
	14	1.40 (35.56)	609-2460-ND	1.95	1.09	.94	78208-114HLF
	15	1.50 (38.10)	609-2461-ND	2.11	1.22	1.08	78208-115HLF
Vertical Dual Row Header							
3	6	0.30 (7.62)	609-2423-ND	1.18	.65	.55	69168-106HLF
	8	0.40 (10.16)	609-2424-ND	1.55	.86	.74	69168-108HLF
	10	0.50 (12.70)	609-2425-ND	1.81	.98	.86	69168-110HLF
	12	0.60 (15.24)	609-2426-ND	1.60	.90	.78	69168-112HLF
	14	0.70 (17.78)	609-2427-ND	1.80	1.00	.88	69168-114HLF
	16	0.80 (20.32)	609-2428-ND	2.00	1.15	.99	69168-116HLF
	18	0.90 (22.86)	609-2429-ND	2.18	1.29	1.12	69168-118HLF
	20	1.00 (25.40)	609-2430-ND	2.35	1.40	1.24	69168-120HLF
	22	1.10 (27.94)	609-2431-ND	2.43	1.46	1.28	69168-122HLF
	24	1.20 (30.48)	609-2432-ND	2.78	1.67	1.46	69168-124HLF
	26	1.30 (33.02)	609-2433-ND	2.83	1.68	1.51	69168-126HLF
	28	1.40 (35.56)	609-2434-ND	3.10	1.90	1.65	69168-128HLF
	30	1.50 (38.10)	609-2435-ND	3.32	2.04	1.77	69168-130HLF
Right Angle Dual Row Header							
4	6	0.30 (7.62)	609-2436-ND	1.28	.71	.60	78207-106HLF
	8	0.40 (10.16)	609-2437-ND	1.53	.86	.74	78207-108HLF
	10	0.50 (12.70)	609-2438-ND	1.17	.65	.55	78207-110HLF
	12	0.60 (15.24)	609-2439-ND	1.66	.90	.79	78207-112HLF
	14	0.70 (17.78)	609-2440-ND	1.80	1.00	.88	78207-114HLF
	16	0.80 (20.32)	609-2441-ND	2.10	1.20	1.04	78207-116HLF
	18	0.90 (22.86)	609-2442-ND	2.29	1.32	1.17	78207-118HLF
	20	1.00 (25.40)	609-2443-ND	2.35	1.40	1.24	78207-120HLF
	22	1.10 (27.94)	609-2444-ND	2.55	1.53	1.34	78207-122HLF
	24	1.20 (30.48)	609-2445-ND	2.74	1.63	1.46	78207-124HLF
	26	1.30 (33.02)	609-2446-ND	5.71	3.50	3.14	78207-126HLF
	28	1.40 (35.56)	609-2447-ND	3.09	1.90	1.65	78207-128HLF
	30	1.50 (38.10)	609-2448-ND	3.32	1.98	1.75	78207-130HLF
Single Row Housing Without Center Polarizing Key							
5	1	0.10 (2.54)	609-2342-ND	.71	.36	.29	65039-036LF
	2	0.20 (5.08)	609-2341-ND	.83	.40	.34	65039-035LF
	3	0.30 (7.62)	609-2340-ND	.90	.46	.37	65039-034LF
	4	0.40 (10.16)	609-2339-ND	.94	.47	.40	65039-033LF
	5	0.50 (12.70)	609-2338-ND	1.06	.54	.45	65039-032LF
	6	0.60 (15.24)	609-2337-ND	1.15	.61	.52	65039-031LF
	7	0.70 (17.78)	609-2336-ND	1.15	.62	.52	65039-030LF
	8	0.80 (20.32)	609-2335-ND	1.18	.65	.55	65039-029LF
	9	0.90 (22.86)	609-2334-ND	1.27	.71	.59	65039-028LF
	10	1.00 (25.40)	609-2333-ND	1.33	.76	.62	65039-027LF
	11	1.10 (27.94)	609-2332-ND	1.38	.78	.64	65039-026LF
	12	1.20 (30.48)	609-2331-ND	1.43	.81	.69	65039-025LF
	13	1.30 (33.02)	609-2330-ND	1.48	.81	.71	65039-024LF
	14	1.40 (35.56)	609-2329-ND	1.62	.88	.77	65039-023LF
	15	1.50 (38.10)	609-2328-ND	1.87	1.04	.91	65039-022LF
	16	1.60 (40.64)	609-2327-ND	2.00	1.11	.97	65039-021LF
	17	1.70 (43.18)	609-2326-ND	2.04	1.14	1.00	65039-020LF
	18	1.80 (45.72)	609-2325-ND	2.02	1.16	1.00	65039-019LF
	19	1.90 (48.26)	609-2324-ND	1.97	1.10	.96	65039-018LF
	20	2.00 (50.80)	609-2323-ND	2.19	1.29	1.12	65039-017LF
	21	2.10 (53.34)	609-2322-ND	2.28	1.35	1.20	65039-016LF
	22	2.20 (55.88)	609-2321-ND	2.07	1.19	1.06	65039-015LF
	23	2.30 (58.24)	609-2320-ND	2.49	1.43	1.27	65039-014LF
	24	2.40 (60.96)	609-2319-ND	1.31	.71	.61	65039-013LF
	25	2.50 (63.50)	609-2318-ND	2.59	1.56	1.36	65039-012LF
	26	2.60 (66.04)	609-2317-ND	2.61	1.55	1.39	65039-011LF
	27	2.70 (68.58)	609-2316-ND	2.44	1.40	1.25	65039-010LF
	28	2.80 (71.12)	609-2315-ND	2.73	1.64	1.43	65039-009LF
	29	2.90 (73.66)	609-2314-ND	2.56	1.47	1.31	65039-008LF
	30	3.00 (76.20)	609-2313-ND	2.65	1.57	1.39	65039-007LF
	31	3.10 (78.74)	609-2312-ND	3.03	1.81	1.62	65039-006LF
	32	3.20 (81.28)	609-2311-ND	2.96	1.82	1.58	65039-005LF
	33	3.30 (83.82)	609-2310-ND	2.69	1.62	1.41	65039-004LF
	34	3.40 (86.36)	609-2309-ND	3.12	1.92	1.72	65039-003LF
5	35	3.50 (88.90)	609-2308-ND	3.14	1.93	1.73	65039-002LF
	36	3.60 (91.44)	609-2307-ND	2.97	1.83	1.59	65039-001LF
Single Row Housing With Center Polarizing Key							
5	3	0.30 (7.62)	609-2395-ND	.96	.50	.42	78211-003LF
	4	0.40 (10.16)	609-2396-ND	1.12	.62	.52	78211-004LF
	5	0.50 (12.70)	609-2397-ND	1.33	.72	.62	78211-005LF
	6	0.60 (15.24)	609-2398-ND	1.48	.81	.71	78211-006LF
	7	0.70 (17.78)	609-2399-ND	1.57	.86	.75	78211-007LF
	8	0.80 (20.32)	609-2400-ND	1.41	.79	.68	78211-008LF
	9	0.90 (22.86)	609-2401-ND	1.91	1.13	.98	78211-009LF
	10	1.00 (25.40)	609-2402-ND	1.39	.77	.66	78211-010LF
	11	1.10 (27.94)	609-2403-ND	2.40	1.38	1.19	78211-011LF
	12	1.20 (30.48)	609-2404-ND	1.83	1.05	.91	78211-012LF
	13	1.30 (33.02)	609-2405-ND	1.84	1.00	.88	78211-013LF
	14	1.40 (35.56)	609-2406-ND	2.71	1.66	1.49	78211-014LF
	15	1.50 (38.10)	609-2407-ND	2.52	1.45	1.29	78211-015LF
Dual Row Housing Without Center Polarizing Key							
6	4	0.20 (5.08)	609-2377-ND	1.19	.63	.54	65043-035LF
	6	0.30 (7.62)	609-2376-ND	1.15	.61	.52	65043-034LF
	8	0.40 (10.16)	609-2375-ND	1.32	.73	.62	65043-033LF
	10	0.50 (12.70)	609-2374-ND	1.70	.92	.81	65043-032LF
	12	0.60 (15.24)	609-2373-ND	.49	.29	.24	65043-031LF
	14	0.70 (17.78)	609-2372-ND	2.21	1.30	1.13	65043-030LF
	16	0.80 (20.32)	609-2371-ND	2.04	1.14	1.00	65043-029LF
	18	0.90 (22.86)	609-2370-ND	2.45	1.41	1.25	65043-028LF
	20	1.00 (25.40)	609-2369-ND	2.60	1.57	1.37	65043-027LF
	22	1.10 (27.94)	609-2368-ND	2.87	1.73	1.51	65043-026LF
	24	1.20 (30.48)	609-2367-ND	2.94	1.75	1.57	65043-025LF
	26	1.30 (33.02)	609-2366-ND	3.00	1.84	1.65	65043-024LF
	28	1.40 (35.56)	609-2365-ND	3.14	1.93	1.73	65043-023LF
	30	1.50 (38.10)	609-2364-ND	3.40	2.09	1.81	65043-022LF
	32	1.60 (40.64)	609-2363-ND	2.96	1.82	1.58	65043-021LF
	34	1.70 (43.18)	609-2362-ND	2.97	1.83	1.59	65043-020LF
	36	1.80 (45.72)	609-2361-ND	3.05	1.87	1.63	65043-019LF
	38	1.90 (48.26)	609-2360-ND	3.32	2.04	1.77	65043-018LF
	40	2.00 (50.80)	609-2359-ND	3.36	2.07	1.83	65043-017LF
	42	2.10 (53.34)	609-2358-ND	3.58	2.20	1.91	65043-016LF
	44	2.20 (55.88)	609-2357-ND	3.54	2.19	1.93	65043-015LF
	46	2.30 (58.24)	609-2356-ND	3.65	2.25	1.99	65043-014LF
	48	2.40 (60.96)	609-2355-ND	3.63	2.26	2.05	65043-013LF
	50	2.50 (63.50)	609-2354-ND	3.57	2.21	1.94	65043-012LF
	52	2.60 (66.04)	609-2353-ND	4.15	2.57	2.26	65043-011LF
	54	2.70 (68.58)	609-2352-ND	4.09	2.54	2.30	65043-010LF
	56	2.80 (71.12)	609-2351-ND	4.15	2.58	2.34	65043-009LF
	58	2.90 (73.66)	609-2350-ND	4.33	2.69	2.44	65043-008LF
	60	3.00 (76.20)	609-2349-ND	4.48	2.78	2.52	65043-007LF
	62	3.10 (78.74)	609-2348-ND	4.55	2.83	2.56	65043-006LF
	64	3.20 (81.28)	609-2347-ND	4.45	2.87	2.55	65043-005LF
	66	3.30 (83.82)	609-2346-ND	4.69	2.92	2.64	65043-004LF
	68	3.40 (86.36)	609-2345-ND	4.90	3.05	2.76	65043-003LF
	70	3.50 (88.90)	609-2344-ND	4.94	3.07	2.78	65043-002LF
	72	3.60 (91.44)	609-2343-ND	4.34	2.70	2.44	65043-001LF
Dual Row Housing With Center Polarizing Key							
6	4	0.20 (5.08)	609-2379-ND	1.64	.92	.79	69176-004LF
	6	0.30 (7.62)	609-2380-ND	1.75	.95	.83	69176-006LF
	8	0.40 (10.16)	609-2381-ND	2.00	1.11	.97	69176-008LF
	10	0.50 (12.70)	609-2382-ND	2.15	1.23	1.07	69176-010LF
	12	0.60 (15.24)	609-2383-ND	2.37	1.36	1.21	69176-012LF
	14	0.70 (17.78)	609-2384-ND	2.57	1.52	1.35	69176-014LF
	16	0.80 (20.32)	609-2385-ND	2.68	1.61	1.41	69176-016LF
	18	0.90 (22.86)	609-2386-ND	2.84	1.71	1.49	69176-018LF
	20	1.00 (25.40)	609-2387-ND	3.00	1.84	1.65	69176-020LF
	22	1.10 (27.94)	609-2388-ND	3.22	1.98	1.72	69176-022LF
	24	1.20 (30.48)	609-2389-ND	3.36	2.07	1.80	69176-024LF
	26	1.30 (33.02)	609-2390-ND	3.51	2.16	1.87	69176-026LF
	28	1.40 (35.56)	609-2391-ND	3.68	2.27	2.00	69176-028LF
	30	1.50 (38.10)	609-2392-ND	3.82	2.36	2.08	69176-030LF
Polarizing Plug for Receptacle Housing							
Polarizing Plug			609-2378-ND	.18	.09	.07	65307-001LF
Crimp Contacts for Receptacle Housing							
Conn. Socket 22-26AWG Gold Crimp			609-2305-ND	.45	.21	.17	48235-000LF
Conn. Socket 28-32AWG Gold Crimp			609-2306-ND	.44	.21	.17	48238-000LF
Conn. Socket 22-26AWG Tin Crimp			609-2301-ND	.37	.18	.14	47747-000LF
Conn. Socket 28-32AWG Tin Crimp			609-2302-ND	.47	.23	.18	47748-000LF
Conn. Socket 22-26AWG Tin Crimp			609-2848-ND	.50	.24	.20	47715-000LF
Conn. Socket 22-26AWG Tin Crimp			609-2849-ND	.38	.18	.14	47750-000LF
Conn. Socket 28-32AWG Tin Crimp			609-2850-ND	.50	.25	.21	47714-000LF
Conn. Socket 28-32AWG Tin Crimp			609-2847-ND	.46	.22	.18	47751-000LF
Conn. Socket 22-26AWG Gold Crimp			609-2851-ND	1.00	.48	.39	48234-000LF
Conn. Socket 22-26AWG Gold Crimp			609-2852-ND	.50	.24	.20	48236-000LF
Conn. Socket 28-32AWG Gold Crimp			609-2853-ND	.50	.24	.20	48237-000LF
Conn. Socket 28-32AWG Gold Crimp			609-2854-ND	.50	.25	.20	48239-000LF
Conn. Pin 22-26AWG Tin Crimp			609-2394-ND	1.08	.58	.49	75654-002LF
Conn. Pin 28-32AWG Tin Crimp			609-2393-ND	.79	.38	.29	75654-001LF
Conn. Pin 22-26AWG Gold Crimp			609-2304-ND	1.26	.56	.48	48116-000LF
Conn. Pin 28-32AWG Gold Crimp			609-2303-ND	1.19	.63	.53	48115-000LF
Crimp Tools							
Crimp Tool for Socket Crimp contacts 22-32 AWG			609-2408-ND	852.67	735.07	705.66	HT-0095
Crimp Tool for Pin Crimp contacts 22-32 AWG			609-2409-ND	765.85	638.21	612.68	HT-0102

DUBOX™ Versatile 0.100” (2.54 mm) Modular System

Features: • **Body Material:** Glass filled Thermoplastic • **Color:** Right Angle Header: Blue; Vertical Header: Black; Housing: Blue • **Flame Retardant:** Per UL-94 V0 • **Contact Material:** Phosphor Bronze

Fig. 1

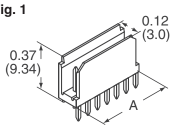

Fig. 2

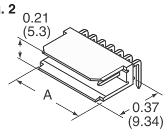

Fig. 3

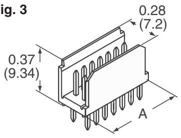

Fig. 4

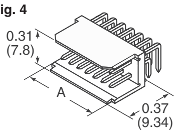

Fig. 5

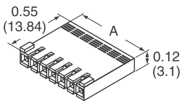

Fig. 6

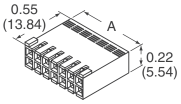

Fig.	No. of Posi-tions	Dim. A Inch (mm) (Typical)	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Vertical Single Row Header — Gold							
1	2	0.161 (4.08)	609-1304-ND	.64	.32	.26	76384-302LF
	3	0.261 (6.62)	609-1305-ND	.77	.39	.32	76384-303LF
	4	0.361 (9.16)	609-1306-ND	.87	.44	.37	76384-304LF
	5	0.461 (11.70)	609-1307-ND	.92	.47	.40	76384-305LF
	6	0.561 (14.24)	609-1308-ND	1.06	.59	.50	76384-306LF
	7	0.661 (16.78)	609-1309-ND	1.17	.65	.55	76384-307LF
	8	0.761 (19.32)	609-1310-ND	1.34	.73	.63	76384-308LF
	9	0.861 (21.86)	609-1311-ND	1.42	.79	.68	76384-309LF
	10	0.961 (24.40)	609-1312-ND	1.49	.84	.72	76384-310LF
	11	1.061 (26.94)	609-1313-ND	1.68	.91	.80	76384-311LF
	12	1.161 (29.48)	609-1314-ND	1.74	.97	.85	76384-312LF
	13	1.261 (32.02)	609-1315-ND	1.72	.96	.84	76384-313LF
	14	1.361 (34.56)	609-1316-ND	1.93	1.11	.96	76384-314LF
	15	1.461 (37.10)	609-3063-ND	1.67	.93	.82	76384-315LF
	16	1.561 (39.64)	609-3064-ND	1.91	1.10	.95	76384-316LF
Vertical Single Row Header — Tin							
1	2	0.161 (4.08)	609-1317-ND	.60	.30	.24	76384-402LF
	3	0.261 (6.62)	609-1318-ND	.66	.32	.27	76384-403LF
	4	0.361 (9.16)	609-1319-ND	.80	.41	.33	76384-404LF
	5	0.461 (11.70)	609-1320-ND	.97	.49	.42	76384-405LF
	6	0.561 (14.24)	609-1321-ND	1.06	.56	.48	76384-406LF
	7	0.661 (16.78)	609-1322-ND	1.11	.62	.52	76384-407LF
	8	0.761 (19.32)	609-1323-ND	1.20	.67	.56	76384-408LF
	9	0.861 (21.86)	609-1324-ND	1.32	.75	.61	76384-409LF
	10	0.961 (24.40)	609-1325-ND	1.38	.75	.64	76384-410LF
	11	1.061 (26.94)	609-1326-ND	1.49	.84	.72	76384-411LF
	12	1.161 (29.48)	609-1327-ND	1.61	.87	.76	76384-412LF
	13	1.261 (32.02)	609-1328-ND	2.42	1.35	1.18	76384-413LF
	14	1.361 (34.56)	609-1329-ND	1.68	.91	.80	76384-414LF
	15	1.461 (37.10)	609-3065-ND	1.90	1.09	.94	76834-415LF
	16	1.561 (39.64)	609-3066-ND	1.97	1.16	1.01	76834-416LF
Right Angle Single Row Header — Gold							
2	2	0.193 (4.90)	609-1278-ND	.71	.35	.29	76382-302LF
	3	0.293 (7.44)	609-1279-ND	.87	.44	.37	76382-303LF
	4	0.393 (9.98)	609-1280-ND	.98	.52	.44	76382-304LF
	5	0.493 (12.52)	609-1281-ND	1.14	.63	.53	76382-305LF
	6	0.593 (15.06)	609-1282-ND	1.31	.74	.61	76382-306LF
	7	0.693 (17.60)	609-1283-ND	1.39	.75	.65	76382-307LF
	8	0.793 (20.14)	609-1284-ND	1.46	.81	.70	76382-308LF
	9	0.893 (22.68)	609-1285-ND	1.71	.93	.81	76382-309LF
	10	0.993 (25.22)	609-1286-ND	1.81	1.01	.88	76382-310LF
	11	1.093 (27.76)	609-1287-ND	1.83	1.02	.89	76382-311LF
	12	1.193 (30.30)	609-1288-ND	1.94	1.11	.96	76382-312LF
	13	1.293 (32.84)	609-1289-ND	2.60	1.57	1.37	76382-313LF
	14	1.393 (35.38)	609-1290-ND	2.25	1.33	1.18	76382-314LF
Right Angle Single Row Header — Tin							
2	2	0.193 (4.90)	609-1291-ND	1.01	.51	.41	76382-402LF
	3	0.293 (7.44)	609-1292-ND	.77	.39	.32	76382-403LF
	4	0.393 (9.98)	609-1293-ND	.90	.46	.39	76382-404LF
	5	0.493 (12.52)	609-1294-ND	1.02	.54	.46	76382-405LF
	6	0.593 (15.06)	609-1295-ND	1.10	.61	.51	76382-406LF
	7	0.693 (17.60)	609-1296-ND	1.25	.71	.58	76382-407LF
	8	0.793 (20.14)	609-1297-ND	1.35	.73	.63	76382-408LF
	9	0.893 (22.68)	609-1298-ND	1.44	.80	.69	76382-409LF
	10	0.993 (25.22)	609-1299-ND	1.54	.84	.73	76382-410LF
	11	1.093 (27.76)	609-1300-ND	1.69	.92	.81	76382-411LF
	12	1.193 (30.30)	609-1301-ND	1.80	1.00	.88	76382-412LF
	13	1.293 (32.84)	609-1302-ND	2.97	1.71	1.52	76382-413LF
	14	1.393 (35.38)	609-1303-ND	2.34	1.39	1.23	76382-414LF
Vertical Dual Row Header — Gold							
3	4	0.161 (4.08)	609-1330-ND	1.01	.54	.45	76385-302LF
	6	0.261 (6.62)	609-1331-ND	1.27	.72	.59	76385-303LF
	8	0.361 (9.16)	609-1332-ND	1.46	.82	.70	76385-304LF
	10	0.461 (11.70)	609-1333-ND	1.68	.91	.80	76385-305LF
	12	0.561 (14.24)	609-1334-ND	1.86	1.07	.92	76385-306LF
	14	0.661 (16.78)	609-1335-ND	1.88	1.05	.92	76385-307LF
	16	0.761 (19.32)	609-1336-ND	1.87	1.07	.93	76385-308LF
	18	0.861 (21.86)	609-1337-ND	2.12	1.25	1.08	76385-309LF
	20	0.961 (24.40)	609-1338-ND	2.62	1.57	1.37	76385-310LF
	22	1.061 (26.94)	609-1339-ND	2.48	1.49	1.30	76385-311LF
	24	1.161 (29.48)	609-1340-ND	2.70	1.63	1.42	76385-312LF
	26	1.261 (32.02)	609-1341-ND	2.88	1.72	1.54	76385-313LF
	28	1.361 (34.56)	609-1342-ND	2.89	1.78	1.54	76385-314LF
	30	1.461 (37.10)	609-1343-ND	3.10	1.90	1.65	76385-315LF
	32	1.561 (39.64)	609-1344-ND	3.81	2.35	2.08	76385-316LF
	34	1.661 (42.18)	609-1345-ND	3.73	2.32	2.10	76385-317LF
	36	1.761 (44.72)	609-1346-ND	4.07	2.53	2.29	76385-318LF
Vertical Dual Row Header — Tin							
3	4	0.161 (4.08)	609-1347-ND	.80	.41	.34	76385-402LF
	6	0.261 (6.62)	609-1348-ND	1.14	.63	.53	76385-403LF
	8	0.361 (9.16)	609-1349-ND	1.37	.74	.64	76385-404LF
	10	0.461 (11.70)	609-1350-ND	1.52	.86	.74	76385-405LF
	12	0.561 (14.24)	609-1351-ND	1.68	.94	.82	76385-406LF
	14	0.661 (16.78)	609-1352-ND	1.90	1.09	.95	76385-407LF
	16	0.761 (19.32)	609-1353-ND	1.77	.99	.87	76385-408LF
	18	0.861 (21.86)	609-1354-ND	2.16	1.24	1.10	76385-409LF
	20	0.961 (24.40)	609-1355-ND	2.33	1.38	1.23	76385-410LF
	22	1.061 (26.94)	609-1356-ND	2.80	1.68	1.47	76385-411LF
	24	1.161 (29.48)	609-1357-ND	2.71	1.61	1.44	76385-412LF
3	26	1.261 (32.02)	609-1358-ND	2.84	1.75	1.56	76385-413LF
	28	1.361 (34.56)	609-1359-ND	3.06	1.88	1.64	76385-414LF
	30	1.461 (37.10)	609-1360-ND	3.18	1.96	1.73	76385-415LF
	32	1.561 (39.64)	609-1361-ND	3.52	2.18	1.92	76385-416LF
	34	1.661 (42.18)	609-1362-ND	3.60	2.22	1.96	76385-417LF
	36	1.761 (44.72)	609-1363-ND	4.08	2.54	2.30	76385-418LF
Right Angle Dual Row Header — Gold							
4	4	0.193 (4.90)	609-1364-ND	1.26	.71	.58	76383-302LF
	6	0.283 (7.44)	609-1365-ND	1.27	.72	.59	76383-303LF
	8	0.393 (9.98)	609-1366-ND	1.79	1.03	.89	76383-304LF
	10	0.493 (12.52)	609-1367-ND	2.06	1.22	1.05	76383-305LF
	12	0.593 (15.06)	609-1368-ND	2.31	1.37	1.22	76383-306LF
	14	0.693 (17.60)	609-1369-ND	2.66	1.60	1.39	76383-307LF
	16	0.793 (20.14)	609-1370-ND	2.73	1.68	1.50	76383-308LF
	18	0.893 (22.68)	609-1371-ND	2.64	1.59	1.38	76383-309LF
	20	0.993 (25.22)	609-1372-ND	3.18	1.97	1.73	76383-310LF
	22	1.093 (27.76)	609-1373-ND	3.07	1.89	1.64	76383-311LF
	24	1.193 (30.30)	609-1374-ND	3.71	2.31	2.09	76383-312LF
	26	1.293 (32.84)	609-1375-ND	3.52	2.17	1.92	76383-313LF
	28	1.393 (35.38)	609-1376-ND	4.31	2.68	2.43	76383-314LF
	30	1.493 (37.92)	609-1377-ND	3.92	2.44	2.21	76383-315LF
	32	1.593 (40.46)	609-1378-ND	4.18	2.60	2.36	76383-316LF
	34	1.693 (43.00)	609-1379-ND	4.72	2.95	2.70	76383-317LF
	36	1.793 (45.54)	609-1380-ND	4.33	2.79	2.48	76383-318LF
Right Angle Dual Row Header — Tin							
4	4	0.193 (4.90)	609-1381-ND	.88	.45	.38	76383-402LF
	6	0.283 (7.44)	609-1382-ND	1.17	.65	.55	76383-403LF
	8	0.393 (9.98)	609-1383-ND	1.46	.82	.71	76383-404LF
	10	0.493 (12.52)	609-1384-ND	1.82	1.05	.91	76383-405LF
	12	0.593 (15.06)	609-1385-ND	1.87	1.08	.93	76383-406LF
	14	0.693 (17.60)	609-1386-ND	2.12	1.22	1.09	76383-407LF
	16	0.793 (20.14)	609-1387-ND	2.21	1.27	1.13	76383-408LF
	18	0.893 (22.68)	609-1388-ND	2.37	1.43	1.25	76383-409LF
	20	0.993 (25.22)	609-1389-ND	2.64	1.59	1.38	76383-410LF
	22	1.093 (27.76)	609-1390-ND	3.81	2.35	2.07	76383-411LF
	24	1.193 (30.30)	609-1391-ND	3.02	1.86	1.61	76383-412LF
	26	1.293 (32.84)	609-1392-ND	3.16	1.96	1.72	76383-413LF
	28	1.393 (35.38)	609-1393-ND	4.20	2.59	2.29	76383-414LF
	30	1.493 (37.92)	609-1394-ND	5.19	3.21	2.83	76383-415LF
	32	1.593 (40.46)	609-1395-ND	5.35	3.33	3.01	76383-416LF
	34	1.693 (43.00)	609-1396-ND	4.00	2.49	2.25	76383-417LF
	36	1.793 (45.54)	609-1397-ND	4.24	2.63	2.39	76383-418LF
Single Row Housing							
5	2	0.197 (5.00)	609-1262-ND	.31	.14	.11	65240-002LF
	3	0.297 (7.54)	609-1263-ND	.36	.18	.14	65240-003LF
	4	0.397 (10.08)	609-1264-ND	.46	.22	.18	65240-004LF
	5	0.497 (12.62)	609-1265-ND	.63	.27	.22	65240-005LF
	6	0.597 (15.16)	609-1266-ND	.58	.29	.23	65240-006LF
	7	0.697 (17.70)	609-1267-ND	.66	.34	.27	65240-007LF
	8	0.797 (20.24)	609-1268-ND	.71	.35	.29	65240-008LF
	9	0.897 (22.78)	609-1269-ND	.81	.41	.34	65240-009LF
	10	0.997 (25.32)	609-1270-ND	.84	.41	.35	65240-010LF
	11	1.097 (27.86)	609-1271-ND	.93	.48	.41	65240-011LF
	12	1.197 (30.40)	609-1272-ND	1.00	.51	.44	65240-012LF
	13	1.297 (32.94)	609-1273-ND	.98	.53	.44	65240-013LF
	14	1.397 (35.48)	609-1274-ND	1.05	.55	.48	65240-014LF
	16	1.597 (40.56)	609-3060-ND	1.14	.63	.53	65240-016LF
	18	1.797 (45.64)	609-3061-ND	1.25	.68	.58	65240-018LF
	20	1.997 (50.72)	609-3062-ND	1.36	.74	.63	65240-020LF
Dual Row Housing							
6	4	0.197 (5.00)	609-1245-ND	.48	.23	.19	65239-002LF
	6	0.297 (7.54)	609-1246-ND	.60	.30	.24	65239-003LF
	8	0.397 (10.08)	609-1247-ND	.72	.35	.29	65239-004LF
	10	0.497 (12.62)	609-1248-ND	.89	.44	.37	65239-005LF
	12	0.597 (15.16)	609-1249-ND	.94	.48	.41	65239-006LF
	14	0.697 (17.70)	609-1250-ND	1.07	.57	.48	65239-007LF
	16	0.797 (20.24)	609-1251-ND	1.15	.64	.54	65239-008LF
	18	0.897 (22.78)	609-1252-ND	1.26	.71	.59	65239-009LF
	20	0.997 (25.32)	609-1253-ND	1.43	.80	.68	65239-010LF
	22	1.097 (27.86)	609-1254-ND	1.46	.83	.71	65239-011LF
	24	1.197 (30.40)	609-1255-ND	1.59	.87	.76	65239-012LF
	26	1.297 (32.94)	609-1256-ND	1.72	.94	.82	65239-013LF
	28	1.397 (35.48)	609-1257-ND	1.81	1.01	.88	65239-014LF
	30	1.497 (38.02)	609-1258-ND	1.88	1.08	.94	65239-015LF
	32	1.597 (40.56)	609-1259-ND	1.89	1.09	.94	65239-016LF
	34	1.697 (43.10)	609-1260-ND	2.18	1.25	1.11	65239-017LF
	36	1.797 (45.64)	609-1261-ND	2.19	1.26	1.12	65239-018LF
Crimp Contacts for Receptacle Housings							
22-30 AWG, Gold			609-3055-1-ND‡	.25	.11	.09	76347-301LF
22-30 AWG, Gold			609-3055-2-ND§		765.60/15,000		76347-301LF
20-22 AWG, Gold			609-3058-1-ND‡	.28	.13	.10	76347-311LF
20-22 AWG, Gold			609-3058-2-ND§		854.78/15,000		76347-311LF
22-30 AWG, Gold			609-3056-1-ND‡◊	.28	.13	.10	76347-302LF
22-30 AWG, Gold			609-3056-2-ND§◊		889.58/15,000		76347-302LF
22-30 AWG, Gold			609-3057-1-ND‡◊	.43	.21	.17	76347-303LF
22-30 AWG, Gold			609-3057-2-ND§◊		66.87/500		76347-303LF
20-22 AWG, Gold			609-3059-1-ND‡◊	.31	.14	.11	76347-312LF
20-22 AWG, Gold			609-3059-2-ND§◊		983.10/15,000		76347-312LF
22-30 AWG, Gold			609-1275-ND†	.38	.19	.14	76357-301LF
22-30 AWG, Tin			609-1276-ND†	.31	.14	.11	76357-401LF
Tool							
Crimp Tool for Crimp Contact			609-1277-ND	734.06	632.82	607.50	RCY21234

‡ Cut Tape § Tape and Reel † Loose piece ◊ Reeled for Left-to-Right Feed Application Machines

.100” KK® and .100” C-Grid® Breakaway Headers

Fig. 1 — KK® Breakaway Header – Right Angle

Features: • 250V • 4.0A • Contact Resistance: 20 MΩ maximum • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 50K MΩ minimum • Housing: Glass-filled nylon, UL 94V-0 • Contact: Phosphor Bronze, 0.64mm (.025”) square • Temperature Range: 0°C ~ 75°C • UL File No.: E29179 • CSA File No.: LR19980

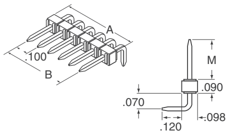

Mating End M (Inch)	Molex Part No.
.244	22-28-8xx0 22-28-8xx2
.324	22-28-8xx1 22-28-8xx3

Fig. 2 — KK® Breakaway Header – Vertical

Features: • 250V • 4.0A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 50K MΩ minimum • Housing: Glass-filled nylon, UL 94V-0 • Contact: Phosphor Bronze, 0.64mm (.025”) square • Temperature Range: 0°C ~ 75°C • UL File No.: E29179 • CSA File No.: LR19980

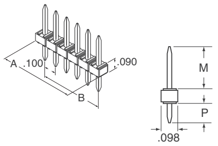

Mating End M (Inch)	PC Tail P (Inch)	Molex Part No.
.240	.125	22-28-4xx0 22-28-4xx3
.320	.130	22-28-4xx1 22-28-4xx4

Fig. 3 — .100” KK® Breakaway Header – Single Row, Unshrouded, SMT, Vertical

Features: • 250V • 3.0A • Contact Resistance: 30mΩ maximum • Withstanding Voltage: 1500VAC • Insulation Resistance: 50K MΩ minimum • Housing: PA Polyamide (Nylon), High Temperature • Contact: Phosphor Bronze • Temperature Range: 0°C ~ 75°C • UL 94V-0

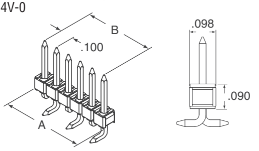

Fig. 4 — C-Grid® Breakaway Header – Dual Row, Vertical

Features: • 250V • 3.0A • Contact Resistance: 15mΩ maximum • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 1000 MΩ minimum • Housing: Thermoplastic, High Temperature, UL 94V-0 • Contact: Phosphor Bronze • Temperature Range: -40°C ~ 105°C • UL File No.: E29179 (G) • CSA File No.: LR19980A
***Note**: Compliant Pin, Press Fit PC Tail, Available*

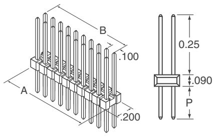

PC Tail P (Inch)	Molex Part No.
.107	10-89-7xx2 10-89-7xx1 70280-04xx
.187	75102-0xxx

Fig. 5 — C-Grid® Breakaway Header – Low Profile, Dual Row, Right Angle

Features: • 250V • 3.0A • Contact Resistance: 15mΩ maximum • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 1,000 MΩ minimum • Housing: Thermoplastic, High Temperature, UL 94V-0 • Contact: Phosphor Bronze • Temperature Range: -40°C ~ 105°C • UL File No.: E29179 (H)

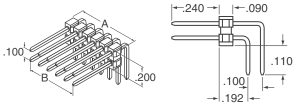

Fig. 6 — C-Grid® Header – Dual Row, SMT, Vertical

Features: • 250V • 3.0A • Contact Resistance: 15mΩ maximum • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 1,000 MΩ minimum • Housing: High temperature thermoplastic, UL 94V-0 • Contact: Phosphor Bronze • Operating Temperature: -40°C ~ 105°C • UL File No.: E29179 (H) • CSA File No.: LR19980A

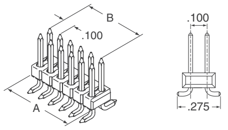

Fig. 7 — C-Grid® 2.54mm Pitch Shunt/Jumper

Features: • 250V • 5.0A • Contact Resistance: 15mΩ maximum • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 100K MΩ minimum • Housing: Glass-filled polyester, UL 94V-0 • Contact: Phosphor Bronze • Temperature Range: -40°C ~ 105°C • Closed Top • UL File No.: E29179 (H) • CSA File No.: LR19980A

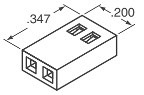

Circuits	Dim. (Inch)		Digi-Key Part No.	Price Each			Molex Part No.
	A	B		1	10	100	
.100” KK® Breakaway Header — RoHS Compliant							
Fig. 1 — Single Row, Right Angle - Tin							
2	.200	.100	WM6002-ND	.36	.32	.21	22-28-8020
3	.300	.200	WM6003-ND	.43	.38	.26	22-28-8030
4	.400	.300	WM6004-ND	.50	.45	.30	22-28-8040
5	.500	.400	WM6005-ND	.57	.51	.34	22-28-8050
6	.600	.500	WM6006-ND	.65	.57	.38	22-28-8060
7	.700	.600	WM6007-ND	.72	.64	.43	22-28-8070
8	.800	.700	WM6008-ND	.79	.70	.47	22-28-8080
9	.900	.800	WM6009-ND	.86	.77	.51	22-28-8090
10	1.000	.900	WM6010-ND	.93	.83	.55	22-28-8100
11	1.100	1.000	WM6011-ND	1.01	.89	.60	22-28-8110
12	1.200	1.100	WM6012-ND	1.08	.96	.64	22-28-8120
14	1.400	1.300	WM6014-ND	1.22	1.08	.72	22-28-8140
16	1.600	1.500	WM6016-ND	1.37	1.21	.81	22-28-8160
18	1.800	1.700	WM6018-ND	1.51	1.34	.89	22-28-8180
20	2.000	1.900	WM6020-ND	1.66	1.47	.98	22-28-8200
22	2.200	2.100	WM6022-ND	1.80	1.59	1.06	22-28-8220
24	2.400	2.300	WM6024-ND	1.95	1.72	1.15	22-28-8240
26	2.600	2.500	WM6026-ND	2.09	1.85	1.23	22-28-8260
28	2.800	2.700	WM6028-ND	2.24	1.98	1.32	22-28-8280
30	3.000	2.900	WM6030-ND	2.38	2.10	1.40	22-28-8300
32	3.200	3.100	WM6032-ND	2.52	2.23	1.49	22-28-8320
34	3.400	3.300	WM6034-ND	2.67	2.36	1.57	22-28-8340
36	3.600	3.500	WM6036-ND	2.60	2.30	1.53	22-28-8360
Fig. 1 — Single Row, Right Angle - 15µ Select Gold							
2	.200	.100	WM6102-ND	.39	.35	.24	22-28-8022
3	.300	.200	WM6103-ND	.48	.43	.29	22-28-8032
4	.400	.300	WM6104-ND	.57	.51	.34	22-28-8042
5	.500	.400	WM6105-ND	.66	.59	.39	22-28-8052
6	.600	.500	WM6106-ND	.75	.67	.45	22-28-8062
7	.700	.600	WM6107-ND	.84	.75	.50	22-28-8072
8	.800	.700	WM6108-ND	.93	.83	.55	22-28-8082
9	.900	.800	WM6109-ND	1.02	.91	.61	22-28-8092
10	1.000	.900	WM6110-ND	1.11	.98	.66	22-28-8102
11	1.100	1.000	WM6111-ND	1.20	1.06	.71	22-28-8112
12	1.200	1.100	WM6112-ND	1.29	1.14	.76	22-28-8122
14	1.400	1.300	WM6114-ND	1.47	1.30	.87	22-28-8142
16	1.600	1.500	WM6116-ND	1.65	1.46	.98	22-28-8162
18	1.800	1.700	WM6118-ND	1.83	1.62	1.08	22-28-8182
20	2.000	1.900	WM6120-ND	2.01	1.78	1.19	22-28-8202
22	2.200	2.100	WM6122-ND	2.19	1.94	1.29	22-28-8222
24	2.400	2.300	WM6124-ND	2.37	2.09	1.40	22-28-8242
26	2.600	2.500	WM6126-ND	2.55	2.25	1.50	22-28-8262
28	2.800	2.700	WM6128-ND	2.73	2.41	1.61	22-28-8282
30	3.000	2.900	WM6130-ND	2.91	2.57	1.71	22-28-8302
32	3.200	3.100	WM6132-ND	3.09	2.73	1.82	22-28-8322
34	3.400	3.300	WM6134-ND	3.27	2.89	1.93	22-28-8342
36	3.600	3.500	WM6136-ND	3.23	2.86	1.91	22-28-8362
Fig. 1 — Single Row, Right Angle - Tin							
2	.200	.100	WM6202-ND	.36	.32	.21	22-28-8021
3	.300	.200	WM6203-ND	.43	.38	.26	22-28-8031
4	.400	.300	WM6204-ND	.50	.45	.30	22-28-8041
5	.500	.400	WM6205-ND	.57	.51	.34	22-28-8051
6	.600	.500	WM6206-ND	.65	.57	.38	22-28-8061
7	.700	.600	WM6207-ND	.72	.64	.43	22-28-8071
8	.800	.700	WM6208-ND	.79	.70	.47	22-28-8081
9	.900	.800	WM6209-ND	.86	.77	.51	22-28-8091
10	1.000	.900	WM6210-ND	.93	.83	.55	22-28-8101
11	1.100	1.000	WM6211-ND	1.01	.89	.60	22-28-8111
12	1.200	1.100	WM6212-ND	1.08	.96	.64	22-28-8121
14	1.400	1.300	WM6214-ND	1.22	1.08	.72	22-28-8141
16	1.600	1.500	WM6216-ND	1.37	1.21	.81	22-28-8161
18	1.800	1.700	WM6218-ND	1.51	1.34	.89	22-28-8181
20	2.000	1.900	WM6220-ND	1.66	1.47	.98	22-28-8201
22	2.200	2.100	WM6222-ND	1.80	1.59	1.06	22-28-8221
24	2.400	2.300	WM6224-ND	1.95	1.72	1.15	22-28-8241
26	2.600	2.500	WM6226-ND	2.09	1.85	1.23	22-28-8261
28	2.800	2.700	WM6228-ND	2.24	1.98	1.32	22-28-8281
30	3.000	2.900	WM6230-ND	2.38	2.10	1.40	22-28-8301
32	3.200	3.100	WM6232-ND	2.52	2.23	1.49	22-28-8321
34	3.400	3.300	WM6234-ND	2.67	2.36	1.57	22-28-8341
36	3.600	3.500	WM6236-ND	2.76	2.44	1.63	22-28-8361
Fig. 1 — Single Row, Right Angle - 15µ Select Gold							
2	.200	.100	WM6302-ND	.39	.35	.24	22-28-8023
3	.300	.200	WM6303-ND	.48	.43	.29	22-28-8033
4	.400	.300	WM6304-ND	.57	.51	.34	22-28-8043
5	.500	.400	WM6305-ND	.66	.59	.39	22-28-8053
6	.600	.500	WM6306-ND	.75	.67	.45	22-28-8063
7	.700	.600	WM6307-ND	.84	.75	.50	22-28-8073
8	.800	.700	WM6308-ND	.93	.83	.55	22-28-8083
9	.900	.800	WM6309-ND	1.02	.91	.61	22-28-8093
10	1.000	.900	WM6310-ND	1.11	.98	.66	22-28-8103
11	1.100	1.000	WM6311-ND	1.20	1.06	.71	22-28-8113
12	1.200	1.100	WM6312-ND	1.29	1.14	.76	22-28-8123
14	1.400	1.300	WM6314-ND	1.47	1.30	.87	22-28-8143
16	1.600	1.500	WM6316-ND	1.65	1.46	.98	22-28-8163
18	1.800	1.700	WM6318-ND	1.83	1.62	1.08	22-28-8183
20	2.000	1.900	WM6320-ND	2.01	1.78	1.19	22-28-8203
22	2.200	2.100	WM6322-ND	2.19	1.94	1.29	22-28-8223
24	2.400	2.300	WM6324-ND	2.37	2.09	1.40	22-28-8243
26	2.600	2.500	WM6326-ND	2.55	2.25	1.50	22-28-8263
28	2.800	2.700	WM6328-ND	2.73	2.41	1.61	22-28-8283
30	3.000	2.900	WM6330-ND	2.91	2.57	1.71	22-28-8303
32	3.200	3.100	WM6332-ND	3.09	2.73	1.82	22-28-8323
34	3.400	3.300	WM6334-ND	3.27	2.89	1.93	22-28-8343
36	3.600	3.500	WM6336-ND	3.23	2.86	1.91	22-28-8363
Fig. 2 — Single Row, Vertical - Tin							
2	.200	.100	WM6402-ND	.29	.26	.18	22-28-4020
3	.300	.200	WM6403-ND	.34	.30	.20	22-28-4030
4	.400	.300	WM6404-ND	.38	.34	.23	22-28-4040
5	.500	.400	WM6405-ND	.42	.37	.25	22-28-4050
6	.600	.500	WM6406-ND	.46	.41	.27	22-28-4060
7	.700	.600	WM6407-ND	.50	.44	.30	22-28-4070
8	.800	.700	WM6408-ND	.54	.48	.32	22-28-4080
9	.900	.800	WM6409-ND	.58	.52	.35	22-28-4090
10	1.000	.900	WM6410-ND	.62	.55	.37	22-28-4100
11	1.100	1.000	WM6411-ND	.66	.59	.39	22-28-4110
12	1.200	1.100	WM6412-ND	.70	.62	.42	22-28-4120
14	1.400	1.300	WM6414-ND	.78	.70	.47	22-28-4140
16	1.600	1.500	WM6416-ND	.87	.77	.51	22-28-4160
18	1.800	1.700	WM6418-ND	.95	.84	.56	22-28-4180
20	2.000	1.900	WM6420-ND	1.03	.91	.61	22-28-4200
22	2.200	2.100	WM6422-ND	1.11	.98	.66	22-28-4220
24	2.400	2.300	WM6424-ND	1.19	1.06	.71	22-28-4240
26	2.600	2.500	WM6426-ND	1.27	1.13	.75	22-28-4260
28	2.800	2.700	WM6428-ND	1.36	1.20	.80	22-28-4280
30	3.000	2.900	WM6430-ND	1.44	1.27	.85	22-28-4300
32	3.200	3.100	WM6432-ND	1.52	1.35	.90	22-28-4320
34	3.400	3.300	WM6434-ND	1.60	1.42	.95	22-28-4340
36	3.600	3.500	WM6436-ND	1.47	1.30	.87	22-28-4360
Fig. 2 — Single Row, Vertical - 15µ Select Gold							
2	.200	.100	WM6502-ND	.33	.29	.20	22-28-4023
3	.300	.200	WM6503-ND	.38	.34	.23	22-28-4033
4	.400	.300	WM6504-ND	.44	.39	.26	22-28-4043
5	.500	.400	WM6505-ND	.50	.44	.30	22-28-4053
6	.600	.500	WM6506-ND	.55	.49	.33	22-28-4063
7	.700	.600	WM6507-ND	.61	.54	.36	22-28-4073
8	.800	.700	WM6508-ND	.66	.59	.40	22-28-4083
9	.900	.800	WM6509-ND	.72	.64	.43	22-28-4093
10	1.000	.900	WM6510-ND	.78	.69	.46	22-28-4103
11	1.100	1.000	WM6511-ND	.83	.74	.50	22-28-4113
12	1.200	1.100	WM6512-ND	.89	.79	.53	22-28-4123
14	1.400	1.300	WM6514-ND	1.00	.89	.60	22-28-4143
16	1.600	1.500	WM6516-ND	1.12	.99	.66	22-28-4163
18	1.800	1.700	WM6518-ND	1.23	1.09	.73	22-28-4183
20	2.000	1.900	WM6520-ND	1.34	1.19	.80	22-28-4203
22	2.200	2.100	WM6522-ND	1.46	1.29	.86	22-28-4223
24	2.400	2.300	WM6524-ND	1.57	1.39	.93	22-28-4243
26	2.600	2.500	WM6526-ND	1.68	1.49	.99	22-28-4263
28	2.800	2.700	WM6528-ND	1.80	1.59	1.06	22-28-4283
30	3.000	2.900	WM6530-ND	1.91	1.69	1.13	22-28-4303
32	3.200	3.100	WM6532-ND	2.02	1.79	1.19	22-28-4323
34	3.400	3.300	WM6534-ND	2.13	1.89	1.26	22-28-4343
36	3.600	3.500	WM6536-ND	2.04	1.80	1.20	22-28-4363
Fig. 2 — Single Row, Vertical - Tin							
2	.200	.100	WM6602-ND	.33	.29	.20	22-28-4021
3	.300	.200	WM6603-ND	.38	.34	.23	22-28-4031
4	.400	.300	WM6604-ND	.44	.39	.26	22-28-4041
5	.500	.400	WM6605-ND	.50	.44	.30	22-28-4051
6	.600	.500	WM6606-ND	.55	.49	.33	22-28-4061
7	.700	.600	WM6607-ND	.61	.54	.36	22-28-4071
8	.800	.700	WM6608-ND	.66	.59	.40	22-28-4081
9	.900	.800	WM6609-ND	.72	.64	.43	22-28-4091
10	1.000	.900	WM6610-ND	.78	.69	.46	22-28-4101
11	1.100	1.000	WM6611-ND	.83	.74	.50	22-28-4111
12	1.200	1.100	WM6612-ND	.89	.79	.53	22-28-4121
14	1.400	1.300	WM6614-ND	1.00	.89	.60	22-28-4141
18	1.800	1.700	WM6618-ND	1.23	1.09	.73	22-28-4181
20	2.000	1.900	WM6620-ND	1.34	1.19	.80	22-28-4201
22	2.200	2.100	WM6622-ND	1.46	1.29	.86	22-28-4221
24	2.400	2.300	WM6624-ND	1.57	1.39	.93	22-28-4241
26	2.600	2.500	WM6626-ND	1.68	1.49	.99	22-28-4261
28	2.800	2.700	WM6628-ND	1.80	1.59	1.06	22-28-4281
30	3.000	2.900	WM6630-ND	1.91	1.69	1.13	22-28-4301
32	3.200	3.100	WM6632-ND	2.02	1.79	1.19	22-28-4321
34	3.400	3.300	WM6634-ND	2.13	1.89	1.26	22-28-4341
36	3.600	3.500	WM6636-ND	2.04	1.80	1.20	22-28-4361
Fig. 2 — Single Row, Vertical - 15µ Select Gold							
2	.200	.100	WM6702-ND	.35	.32	.21	22-28-4024
3	.300	.200	WM6703-ND	.42	.38	.25	22-28-4034
4	.400	.300	WM6704-ND	.49	.44	.30	22-28-4044
5	.500	.400	WM6705-ND	.56	.50	.34	22-28-4054
6	.600	.500	WM6706-ND	.63	.56	.38	22-28-4064
7	.700	.600	WM6707-ND	.70	.63	.42	22-28-4074
8	.800	.700	WM6708-ND	.77	.69	.46	22-28-4084
9	.900	.800	WM6709-ND	.84	.75	.50	22-28-4094
10	1.000	.900	WM6710-ND	.91	.81	.54	22-28-4104
11	1.100	1.000	WM6711-ND	.98	.87	.58	22-28-4114
12	1.200	1.100	WM6712-ND	1.05	.93	.63	22-28-4124
14	1.400	1.300	WM6714-ND	1.19	1.06	.71	22-28-4144
16	1.600	1.500	WM6716-ND	1.34	1.18	.79	22-28-4164
18	1.800	1.700	WM6718-ND	1.48	1.31	.87	22-28-4184
20	2.000	1.900	WM6720-ND	1.62	1.43	.96	22-28-4204
22	2.200	2.100	WM6722-ND	1.76	1.55	1.04	22-28-4224
24	2.400	2.300	WM6724-ND	1.90	1.68	1.12	22-28-4244
26	2.600	2.500	WM6726-ND	2.04	1.80	1.20	22-28-4264
28	2.800	2.700	WM6728-ND	2.18	1.93	1.29	22-28-4284
30	3.000	2.900	WM6730-ND	2.32	2.05	1.37	22-28-4304
32	3.200	3.100	WM6732-ND	2.46	2.17	1.45	22-28-4324
34	3.400	3.300	WM6734-ND	2.60	2.30	1.53	22-28-4344
36	3.600	3.500	WM6736-ND	2.53	2.23	1.49	22-28-4364
Fig. 3 — Single Row, Vertical - Tin							
2	.200	.100	WM17435-ND	.57	.51	.34	68301-1054
3	.300	.200	WM17436-ND	.45	.41	.27	68301-1014
4	.400	.300	WM17437-ND	.55	.49	.33	68301-1015
5	.500	.400	WM17438-ND	.69	.61	.41	68301-1016
6	.600	.500	WM17439-ND	.82	.73	.49	68301-1017
7	.700	.600	WM17440-ND	.97	.86	.58	68301-1018
8	.800	.700	WM17441-ND	1.12	1.00	.67	68301-1019

◆ ***RoHS Compliant***

(Continued)

.100” KK® and .100” C-Grid® Breakaway Headers *(Cont.)*

Cir-cuits	Dim. (Inch) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Fig. 3 — Single Row, Vertical - 15µ Select Gold							
2	.200	.100	WM17442-ND	.42	.37	.25	68301-1055
3	.300	.200	WM17443-ND	.53	.48	.32	68301-1009
4	.400	.300	WM17444-ND	.66	.58	.39	68301-1010
5	.500	.400	WM17445-ND	.83	.74	.50	68301-1006
6	.600	.500	WM17446-ND	.93	.83	.55	68301-1011
7	.700	.600	WM17447-ND	1.12	1.00	.67	68301-1012
8	.800	.700	WM17448-ND	1.28	1.13	.76	68301-1013
.100” C-Grid® Breakaway Header							
Fig. 4 — Dual Row, Vertical - 15µ min. Select Gold — RoHS Compliant							
4	.200	.100	WM26804-ND	.56	.50	.34	10-89-7042
6	.300	.200	WM26806-ND	.74	.66	.44	10-89-7062
8	.400	.300	WM26808-ND	.91	.81	.54	10-89-7082
10	.500	.400	WM26810-ND	1.09	.96	.64	10-89-7102
12	.600	.500	WM26812-ND	1.26	1.12	.75	10-89-7122
14	.700	.600	WM26814-ND	1.44	1.27	.85	10-89-7142
16	.800	.700	WM26816-ND	1.61	1.43	.95	10-89-7162
18	.900	.800	WM26818-ND	1.79	1.58	1.06	10-89-7182
20	1.000	.900	WM26820-ND	1.96	1.74	1.16	10-89-7202
22	1.100	1.000	WM26822-ND	2.14	1.89	1.26	10-89-7222
24	1.200	1.100	WM26824-ND	2.31	2.05	1.37	10-89-7242
26	1.300	1.200	WM26826-ND	2.49	2.20	1.47	10-89-7262
28	1.400	1.300	WM26828-ND	2.66	2.35	1.57	10-89-7282
30	1.500	1.400	WM26830-ND	2.84	2.51	1.67	10-89-7302
32	1.600	1.500	WM26832-ND	3.01	2.66	1.78	10-89-7322
34	1.700	1.600	WM26834-ND	3.19	2.82	1.88	10-89-7342
36	1.800	1.700	WM26836-ND	3.36	2.97	1.98	10-89-7362
38	1.900	1.800	WM26838-ND	3.54	3.13	2.09	10-89-7382
40	2.000	1.900	WM26840-ND	3.71	3.28	2.19	10-89-7402
42	2.100	2.000	WM26842-ND	3.89	3.44	2.29	10-89-7422
44	2.200	2.100	WM26844-ND	4.06	3.59	2.40	10-89-7442
46	2.300	2.200	WM26846-ND	4.24	3.74	2.50	10-89-7462
48	2.400	2.300	WM26848-ND	4.41	3.90	2.60	10-89-7482
50	2.500	2.400	WM26850-ND	4.59	4.05	2.70	10-89-7502
52	2.600	2.500	WM26852-ND	4.76	4.21	2.81	10-89-7522
54	2.700	2.600	WM26854-ND	4.94	4.36	2.91	10-89-7542
56	2.800	2.700	WM26856-ND	5.11	4.52	3.01	10-89-7562
58	2.900	2.800	WM26858-ND	5.29	4.67	3.12	10-89-7582
60	3.000	2.900	WM26860-ND	5.46	4.83	3.22	10-89-7602
62	3.100	3.000	WM26862-ND	5.64	4.98	3.32	10-89-7622
64	3.200	3.100	WM26864-ND	5.81	5.13	3.42	10-89-7642
66	3.300	3.200	WM26866-ND	5.99	5.29	3.53	10-89-7662
68	3.400	3.300	WM26868-ND	6.16	5.44	3.63	10-89-7682
70	3.500	3.400	WM26870-ND	6.34	5.60	3.73	10-89-7702
72	3.600	3.500	WM26872-ND	6.51	5.75	3.84	10-89-7722
74	3.700	3.600	WM26874-ND	6.69	5.91	3.94	10-89-7742
76	3.800	3.700	WM26876-ND	6.86	6.06	4.04	10-89-7762
78	3.900	3.800	WM26878-ND	7.04	6.22	4.15	10-89-7782
80	4.000	3.900	WM26880-ND	7.21	6.37	4.25	10-89-7802
100	5.000	4.900	WM268100-ND	7.00	6.18	4.12	70280-0458
Fig. 4 — Dual Row, Vertical, Compliant Press Fit Tail - 15µ min. Select Gold — RoHS Compliant							
4	.190	.100	WM7504-ND	.91	.81	.54	75102-0040
6	.290	.200	WM7506-ND	1.26	1.12	.75	75102-0041
8	.390	.300	WM7508-ND	1.61	1.43	.95	75102-0042
10	.490	.400	WM7510-ND	1.96	1.74	1.16	75102-0043
12	.590	.500	WM7512-ND	2.31	2.05	1.37	75102-0044
14	.690	.600	WM7514-ND	2.66	2.35	1.57	75102-0045
16	.790	.700	WM7516-ND	3.01	2.66	1.78	75102-0046
18	.890	.800	WM7518-ND	3.36	2.97	1.98	75102-0047
20	.990	.900	WM7520-ND	3.71	3.28	2.19	75102-0048
22	1.090	1.000	WM7522-ND	4.06	3.59	2.40	75102-0049
24	1.190	1.100	WM7524-ND	4.41	3.90	2.60	75102-0050
26	1.290	1.200	WM7526-ND	4.76	4.21	2.81	75102-0051
28	1.390	1.300	WM7528-ND	5.11	4.52	3.01	75102-0052
30	1.490	1.400	WM7530-ND	5.46	4.83	3.22	75102-0053
32	1.590	1.500	WM7532-ND	5.82	5.14	3.43	75102-0054
34	1.690	1.600	WM7534-ND	6.17	5.44	3.63	75102-0055
36	1.790	1.700	WM7536-ND	6.52	5.75	3.84	75102-0056
38	1.890	1.800	WM7538-ND	6.87	6.06	4.04	75102-0057
40	1.990	1.900	WM7540-ND	7.22	6.37	4.25	75102-0058
42	2.090	2.000	WM7542-ND	7.57	6.68	4.46	75102-0059
44	2.190	2.100	WM7544-ND	7.92	6.99	4.66	75102-0060
46	2.290	2.200	WM7546-ND	8.27	7.30	4.87	75102-0061
48	2.390	2.300	WM7548-ND	8.62	7.61	5.07	75102-0062
50	2.490	2.400	WM7550-ND	8.97	7.92	5.28	75102-0063
52	2.590	2.500	WM7552-ND	9.32	8.23	5.49	75102-0064
54	2.690	2.600	WM7554-ND	9.67	8.53	5.69	75102-0065
56	2.790	2.700	WM7556-ND	10.02	8.84	5.90	75102-0066
58	2.890	2.800	WM7558-ND	10.37	9.15	6.10	75102-0067
60	2.990	2.900	WM7560-ND	10.72	9.46	6.31	75102-0068
62	3.090	3.000	WM7562-ND	11.07	9.77	6.52	75102-0069
64	3.190	3.100	WM7564-ND	11.42	10.08	6.72	75102-0070
66	3.290	3.200	WM7566-ND	11.77	10.39	6.93	75102-0071
68	3.390	3.300	WM7568-ND	12.12	10.70	7.13	75102-0072
70	3.490	3.400	WM7570-ND	12.47	11.01	7.34	75102-0073
72	3.590	3.500	WM7572-ND	12.82	11.31	7.55	75102-0074
74	3.690	3.600	WM7574-ND	13.17	11.62	7.75	75102-0075
76	3.790	3.700	WM7576-ND	13.52	11.93	7.96	75102-0076
Fig. 4 — Dual Row, Vertical - Tin — RoHS Compliant							
4	.200	.100	WM26904-ND	.50	.44	.30	10-89-7041
6	.300	.200	WM26906-ND	.64	.57	.38	10-89-7061
8	.400	.300	WM26908-ND	.79	.70	.47	10-89-7081
10	.500	.400	WM26910-ND	.93	.82	.55	10-89-7101
12	.600	.500	WM26912-ND	1.07	.95	.64	10-89-7121
14	.700	.600	WM26914-ND	1.21	1.08	.72	10-89-7141
16	.800	.700	WM26916-ND	1.36	1.20	.80	10-89-7161
18	.900	.800	WM26918-ND	1.50	1.33	.89	10-89-7181
20	1.000	.900	WM26920-ND	1.64	1.46	.97	10-89-7201
22	1.100	1.000	WM26922-ND	1.79	1.58	1.06	10-89-7221
24	1.200	1.100	WM26924-ND	1.93	1.71	1.14	10-89-7241
26	1.300	1.200	WM26926-ND	2.07	1.83	1.23	10-89-7261
28	1.400	1.300	WM26928-ND	2.22	1.96	1.31	10-89-7281
30	1.500	1.400	WM26930-ND	2.36	2.09	1.39	10-89-7301
32	1.600	1.500	WM26932-ND	2.50	2.21	1.48	10-89-7321
34	1.700	1.600	WM26934-ND	2.65	2.34	1.56	10-89-7341
36	1.800	1.700	WM26936-ND	2.79	2.47	1.65	10-89-7361
38	1.900	1.800	WM26938-ND	2.93	2.59	1.73	10-89-7381
40	2.000	1.900	WM26940-ND	3.08	2.72	1.81	10-89-7401
42	2.100	2.000	WM26942-ND	3.22	2.85	1.90	10-89-7421
44	2.200	2.100	WM26944-ND	3.36	2.97	1.98	10-89-7441
46	2.300	2.200	WM26946-ND	3.51	3.10	2.07	10-89-7461
48	2.400	2.300	WM26948-ND	3.65	3.22	2.15	10-89-7481
50	2.500	2.400	WM26950-ND	3.79	3.35	2.24	10-89-7501
52	2.600	2.500	WM26952-ND	3.94	3.48	2.32	10-89-7521
54	2.700	2.600	WM26954-ND	4.08	3.60	2.40	10-89-7541
56	2.800	2.700	WM26956-ND	4.22	3.73	2.49	10-89-7561
58	2.900	2.800	WM26958-ND	4.37	3.86	2.57	10-89-7581
60	3.000	2.900	WM26960-ND	4.51	3.98	2.66	10-89-7601
62	3.100	3.000	WM26962-ND	4.65	4.11	2.74	10-89-7621
64	3.200	3.100	WM26964-ND	4.80	4.24	2.83	10-89-7641
66	3.300	3.200	WM26966-ND	4.94	4.36	2.91	10-89-7661
68	3.400	3.300	WM26968-ND	5.08	4.49	2.99	10-89-7681
70	3.500	3.400	WM26970-ND	5.22	4.61	3.08	10-89-7701
72	3.600	3.500	WM26972-ND	5.37	4.74	3.16	10-89-7721
74	3.700	3.600	WM26974-ND	5.51	4.87	3.25	10-89-7741
76	3.800	3.700	WM26976-ND	5.65	4.99	3.33	10-89-7761
78	3.900	3.800	WM26978-ND	5.80	5.12	3.42	10-89-7781
80	4.000	3.900	WM26980-ND	5.94	5.25	3.50	10-89-7801
100	5.000	4.900	WM269100-ND	5.73	5.06	3.37	70280-0448
Fig. 4 — Dual Row, Vertical, Compliant Press Fit Tail - 150µ Tin/Lead, Nickel Overall — RoHS Compliant							
4	.190	.100	WM7404-ND	.72	.64	.43	75102-0079
6	.290	.200	WM7406-ND	.97	.86	.58	75102-0080
8	.390	.300	WM7408-ND	1.23	1.09	.73	75102-0081
10	.490	.400	WM7410-ND	1.48	1.31	.88	75102-0082
12	.590	.500	WM7412-ND	1.74	1.54	1.03	75102-0083
14	.690	.600	WM7414-ND	1.99	1.76	1.18	75102-0084
16	.790	.700	WM7416-ND	2.24	1.98	1.33	75102-0085
18	.890	.800	WM7418-ND	2.50	2.21	1.47	75102-0086
20	.990	.900	WM7420-ND	2.75	2.43	1.62	75102-0087
22	1.090	1.000	WM7422-ND	3.01	2.66	1.77	75102-0088
24	1.190	1.100	WM7424-ND	3.26	2.88	1.92	75102-0089
26	1.290	1.200	WM7426-ND	3.51	3.10	2.07	75102-0090
28	1.390	1.300	WM7428-ND	3.77	3.33	2.22	75102-0091
30	1.490	1.400	WM7430-ND	4.02	3.55	2.37	75102-0092
32	1.590	1.500	WM7432-ND	4.28	3.78	2.52	75102-0093
34	1.690	1.600	WM7434-ND	4.53	4.00	2.67	75102-0094
36	1.790	1.700	WM7436-ND	4.78	4.23	2.82	75102-0095
38	1.890	1.800	WM7438-ND	5.04	4.45	2.97	75102-0096
40	1.990	1.900	WM7440-ND	5.29	4.67	3.12	75102-0097
42	2.090	2.000	WM7442-ND	5.55	4.90	3.27	75102-0098
44	2.190	2.100	WM7444-ND	5.80	5.12	3.42	75102-0099
46	2.290	2.200	WM7446-ND	6.05	5.35	3.57	75102-0100
48	2.390	2.300	WM7448-ND	6.31	5.57	3.72	75102-0101
50	2.490	2.400	WM7450-ND	6.56	5.79	3.86	75102-0102
52	2.590	2.500	WM7452-ND	6.82	6.02	4.01	75102-0103
54	2.690	2.600	WM7454-ND	7.07	6.24	4.16	75102-0104
56	2.790	2.700	WM7456-ND	7.32	6.47	4.31	75102-0105
58	2.890	2.800	WM7458-ND	7.58	6.69	4.46	75102-0106
60	2.990	2.900	WM7460-ND	7.83	6.91	4.61	75102-0107
62	3.090	3.000	WM7462-ND	8.08	7.14	4.76	75102-0108
64	3.190	3.100	WM7464-ND	8.34	7.36	4.91	75102-0109
66	3.290	3.200	WM7466-ND	8.59	7.59	5.06	75102-0110
68	3.390	3.300	WM7468-ND	8.85	7.81	5.21	75102-0111
70	3.490	3.400	WM7470-ND	9.10	8.03	5.36	75102-0112
72	3.590	3.500	WM7472-ND	9.35	8.26	5.51	75102-0113
74	3.690	3.600	WM7474-ND	9.61	8.48	5.66	75102-0114
76	3.790	3.700	WM7476-ND	9.86	8.71	5.81	75102-0115
78	3.890	3.800	WM7478-ND	10.12	8.93	5.96	75102-0116
80	3.990	3.900	WM7480-ND	10.16	8.97	5.98	75102-0117
Fig. 5 — Dual Row, Low Profile, Right Angle - 15µ min. Select Gold — RoHS Compliant							
4	.200	.100	WM27004-ND	.60	.53	.35	71764-0104
6	.300	.200	WM27006-ND	.79	.70	.47	71764-0106
8	.400	.300	WM27008-ND	.98	.87	.58	71764-0108
10	.500	.400	WM27010-ND	1.17	1.04	.69	71764-0110
12	.600	.500	WM27012-ND	1.36	1.20	.80	71764-0112
14	.700	.600	WM27014-ND	1.55	1.37	.92	71764-0114
16	.800	.700	WM27016-ND	1.74	1.54	1.03	71764-0116
18	.900	.800	WM27018-ND	1.93	1.71	1.14	71764-0118
20	1.000	.900	WM27020-ND	2.13	1.88	1.25	71764-0120
22	1.100	1.000	WM27022-ND	2.32	2.05	1.37	71764-0122
24	1.200	1.100	WM27024-ND	2.51	2.22	1.48	71764-0124
26	1.300	1.200	WM27026-ND	2.70	2.39	1.59	71764-0126
28	1.400	1.300	WM27028-ND	2.89	2.55	1.70	71764-0128
30	1.500	1.400	WM27030-ND	4.39	3.88	2.59	71764-0130
Fig. 5 — Dual Row, Low Profile, Right Angle - 150µ Tin/Lead, Nickel Overall — RoHS Compliant							
4	.200	.100	WM27104-ND	.50	.45	.30	71764-0004
6	.300	.200	WM27106-ND	.64	.57	.38	71764-0006
8	.400	.300	WM27108-ND	.79	.70	.47	71764-0008
10	.500	.400	WM27110-ND	.93	.82	.55	71764-0010
12	.600	.500	WM27112-ND	1.07	.95	.64	71764-0012
14	.700	.600	WM27114-ND	1.22	1.08	.72	71764-0014
16	.800	.700	WM27116-ND	1.36	1.20	.80	71764-0016
18	.900	.800	WM27118-ND	1.50	1.33	.89	71764-0018
20	1.000	.900	WM27120-ND	1.65	1.46	.97	71764-0020
22	1.100	1.000	WM27122-ND	1.79	1.58	1.06	71764-0022
24	1.200	1.100	WM27124-ND	1.93	1.71	1.14	71764-0024
26	1.300	1.200	WM27126-ND	2.08	1.84	1.23	71764-0026
28	1.400	1.300	WM27128-ND	2.22	1.96	1.31	71764-0028
30	1.500	1.400	WM27130-ND	3.13	2.76	1.84	71764-0030
80	4.000	3.900	WM27180-ND	5.95	5.25	3.50	71764-0080
Fig. 6 — Dual Row, Vertical - Tin							
6	.300	.200	WM17449-ND◆	.68	.60	.40	15-91-2060
8	.400	.300	WM17450-ND◆	.91	.80	.54	15-91-2080
10	.500	.400	WM17451-ND◆	1.01	.90	.60	15-91-2100
12	.600	.500	WM17452-ND◆	1.21	1.08	.72	15-91-2120
14	.700	.600	WM17453-ND◆	1.42	1.25	.84	15-91-2140
16	.800	.700	WM17454-ND◆	1.62	1.43	.96	15-91-2160
18	.900	.800	WM17455-ND	1.82	1.61	1.08	15-91-2180
20	1.000	.900	WM17456-ND◆	1.96	1.73	1.16	15-91-2200
Fig. 6 — Dual Row, Vertical - 15µ Select Gold							
6	.300	.200	WM17457-ND◆	.77	.68	.46	15-91-0060
8	.400	.300	WM17458-ND◆	1.03	.91	.61	15-91-0080
10	.500	.400	WM17459-ND◆	1.15	1.02	.68	15-91-0100
12	.600	.500	WM17460-ND◆	1.38	1.22	.81	15-91-0120
14	.700	.600	WM17461-ND◆	1.61	1.42	.95	15-91-0140
16	.800	.700	WM17462-ND◆	1.84	1.62	1.08	15-91-0160
18	.900	.800	WM17463-ND	2.06	1.83	1.22	15-91-0180
20	1.000	.900	WM17464-ND◆	2.23	1.97	1.31	15-91-0200

◆ *RoHS Compliant*

Plating	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Fig. 7 — Shunt/Jumper — RoHS Compliant					
Gold	WM23943-ND	.39	.35	.24	15-29-1025
Tin/Lead	WM23944-ND	.37	.33	.22	15-38-1026

.100” KK® PC Board Receptacles, Top and Bottom Entry, Low Profile

Material:

- Housing: High temperature nylon, Glass-filled, UL 94V, Color: Black
- Terminal: Modified Tin/Brass alloy

Finish:

- Tin: 200µ Minimum
- Select Gold: 15µ Minimum

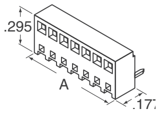

Cir-cuits	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Tin						
2	.230 (5.84)	WM18590-ND◆	.34	.30	.20	44812-0002
3	.330 (8.38)	WM18591-ND◆	.49	.43	.29	44812-0003
4	.430 (10.92)	WM18592-ND◆	.68	.60	.40	44812-0004
5	.530 (13.46)	WM18593-ND◆	.85	.75	.50	44812-0005
6	.630 (16.00)	WM18594-ND◆	1.02	.90	.60	44812-0006
7	.730 (18.54)	WM18595-ND	1.18	1.05	.70	44812-0007
8	.830 (21.08)	WM18596-ND	1.36	1.20	.80	44812-0008
9	.930 (23.62)	WM18597-ND◆	1.52	1.35	.90	44812-0009
10	1.030 (26.16)	WM18598-ND	1.69	1.50	1.00	44812-0010
11	1.130 (28.70)	WM18599-ND◆	1.87	1.65	1.10	44812-0011
12	1.230 (31.24)	WM18600-ND◆	2.03	1.80	1.20	44812-0012
Select Gold						
2	.230 (5.84)	WM18601-ND	.65	.58	.39	44812-0020
3	.330 (8.38)	WM18602-ND◆	.99	.87	.58	44812-0021
4	.430 (10.92)	WM18603-ND◆	1.31	1.16	.77	44812-0022
5	.530 (13.46)	WM18604-ND	1.64	1.45	.97	44812-0023
6	.630 (16.00)	WM18605-ND◆	1.96	1.74	1.16	44812-0024
7	.730 (18.54)	WM18606-ND	2.29	2.03	1.35	44812-0025
8	.830 (21.08)	WM18607-ND	2.62	2.31	1.54	44812-0026
9	.930 (23.62)	WM18608-ND	2.95	2.61	1.74	44812-0027
10	1.030 (26.16)	WM18609-ND◆	3.27	2.89	1.93	44812-0028
11	1.130 (28.70)	WM18610-ND	3.60	3.18	2.12	44812-0029
12	1.230 (31.24)	WM18611-ND◆	3.93	3.47	2.31	44812-0030

◆ *RoHS Compliant*

molex® .100” (2.54mm) Center Headers

.025” (.64mm) Square Pins

The Molex KK® Concept utilizes a double cantilever contact design in mating with P.C. board pins. UL Recognized (File #29179), CSA Recognized (File 19980) • **Voltage Rating:** 250VAC maximum • **Current Rating:** Up to 4 Amps (with 22 AWG wire) • **Resistance:** 20mΩ maximum • **Dielectric Withstanding Voltage:** 1500VAC for 60 seconds • **Storage Temp.:** -40°C ~ 105°C • **Material:** 94V-0

Fig. 1 - Straight Header

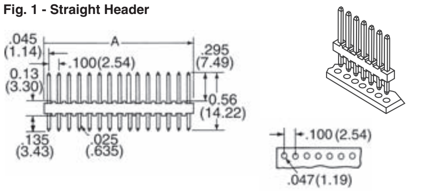

Fig. 2 - Right Angle Header

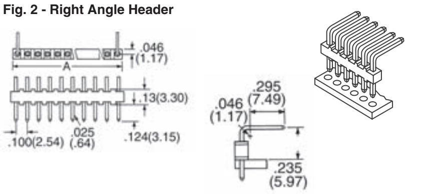

Fig. 3 - Straight - Friction Lock Header

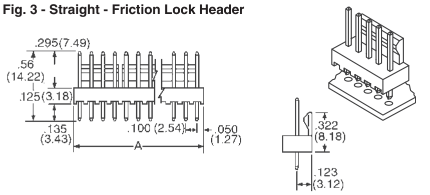

Fig. 4 - Right Angle - Friction Lock Header

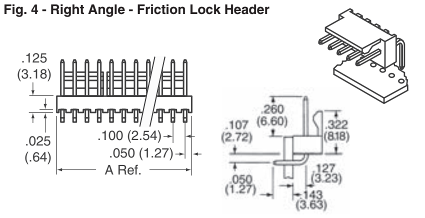

Fig. 5 - Straight - Friction Lock Header

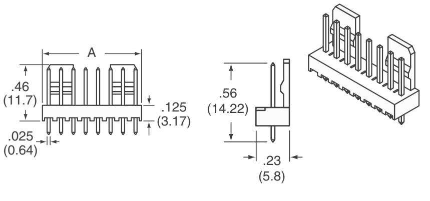

Fig. 6 - Center Crimp Terminal Housing
(contacts sold separately)

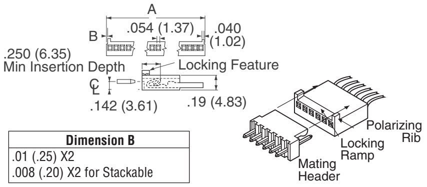

Dimension B
.01 (.25) X2 .008 (.20) X2 for Stackable

Fig.	Cir-cuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
				1	10	100	
.100” (2.54mm) Center Header - Tin							
1	2	.190 (4.83)	WM4000-ND◆	.18	1.63	10.88	22-03-2021
	3	.290 (7.37)	WM4001-ND◆	.33	2.92	19.50	22-03-2031
	4	.390 (9.91)	WM4002-ND◆	.44	3.88	25.87	22-03-2041
	5	.490 (12.45)	WM4003-ND◆	.55	4.83	32.20	22-03-2051
	6	.590 (14.99)	WM4004-ND◆	.66	5.78	38.56	22-03-2061
	7	.690 (17.53)	WM4005-ND◆	.77	6.80	45.37	22-03-2071
	8	.790 (20.07)	WM4006-ND◆	.77	6.80	45.37	22-03-2081
	9	.890 (22.61)	WM4007-ND◆	.86	7.62	50.79	22-03-2091
	10	.990 (25.15)	WM4008-ND◆	.87	7.69	51.26	22-03-2101
	11	1.090 (27.69)	WM4009-ND	.96	8.50	56.68	22-03-2111
	12	1.190 (30.23)	WM4010-ND	1.06	9.32	62.14	22-03-2121
2	2	.190 (4.83)	WM4100-ND◆	.24	2.09	13.96	22-05-2021
	3	.290 (7.37)	WM4101-ND◆	.35	3.07	20.49	22-05-2031
	4	.390 (9.91)	WM4102-ND◆	.47	4.12	27.49	22-05-2041
	5	.490 (12.45)	WM4103-ND◆	.59	5.17	34.45	22-05-2051
	6	.590 (14.99)	WM4104-ND◆	.70	6.21	41.41	22-05-2061
	7	.690 (17.53)	WM4105-ND◆	.82	7.20	47.98	22-05-2071
	8	.790 (20.07)	WM4106-ND◆	.94	8.31	55.38	22-05-2081
	9	.890 (22.61)	WM4107-ND◆	1.06	9.36	62.37	22-05-2091
	10	.990 (25.15)	WM4108-ND◆	1.07	9.42	62.81	22-05-2101
	11	1.090 (27.69)	WM4109-ND◆	1.18	10.40	69.34	22-05-2111
	12	1.190 (30.23)	WM4110-ND◆	1.27	11.25	74.99	22-05-2121
3	2	.200 (5.08)	WM4200-ND◆	.24	2.09	13.96	22-23-2021
	3	.300 (7.62)	WM4201-ND◆	.33	2.94	19.62	22-23-2031
	4	.400 (10.16)	WM4202-ND◆	.42	3.73	24.84	22-23-2041
	5	.500 (12.70)	WM4203-ND◆	.50	4.45	29.67	22-23-2051
	6	.600 (15.24)	WM4204-ND◆	.58	5.10	34.02	22-23-2061
	7	.700 (17.78)	WM4205-ND◆	.68	6.02	40.11	22-23-2071
	8	.800 (20.32)	WM4206-ND◆	.79	6.94	46.24	22-23-2081
	9	.900 (22.86)	WM4207-ND◆	.88	7.78	51.89	22-23-2091
	10	1.000 (25.40)	WM4208-ND◆	.89	7.85	52.33	22-23-2101
	11	1.100 (27.94)	WM4209-ND◆	.98	8.63	57.55	22-23-2111
	12	1.200 (30.48)	WM4210-ND◆	1.07	9.42	62.81	22-23-2121
4	2	.200 (5.08)	WM4300-ND◆	.48	4.22	28.12	22-05-3021
	3	.300 (7.62)	WM4301-ND◆	.66	5.78	38.56	22-05-3031
	4	.400 (10.16)	WM4302-ND◆	.84	7.42	49.44	22-05-3041
	5	.500 (12.70)	WM4303-ND◆	.92	8.10	53.99	22-05-3051
	6	.600 (15.24)	WM4304-ND◆	1.03	9.05	60.32	22-05-3061
	7	.700 (17.78)	WM4305-ND◆	1.19	10.54	70.28	22-05-3071
	8	.800 (20.32)	WM4306-ND◆	1.25	11.02	73.49	22-05-3081
	9	.900 (22.86)	WM4307-ND	1.30	11.43	76.18	22-05-3091
	10	1.000 (25.40)	WM4308-ND◆	1.31	11.56	77.09	22-05-3101
	11	1.100 (27.94)	WM4309-ND◆	1.44	12.72	84.80	22-05-3111
	12	1.200 (30.48)	WM4310-ND◆	1.48	13.06	87.10	22-05-3121
.100” (2.54mm) Center Header - Gold							
1	2	.190 (4.83)	WM2722-ND◆	.56	4.90	32.67	22-10-2021
	3	.290 (7.37)	WM2723-ND◆	.81	7.14	47.62	22-10-2031
	4	.390 (9.91)	WM2724-ND◆	1.08	9.52	63.48	22-10-2041
	5	.490 (12.45)	WM2725-ND◆	1.35	11.91	79.38	22-10-2051
	6	.590 (14.99)	WM2726-ND◆	1.61	14.22	94.77	22-10-2061
	7	.690 (17.53)	WM2727-ND◆	1.80	15.85	105.69	22-10-2071
	8	.790 (20.07)	WM2728-ND◆	2.06	18.16	121.07	22-10-2081
	9	.890 (22.61)	WM2729-ND◆	2.31	20.41	136.06	22-10-2091
	10	.990 (25.15)	WM2730-ND◆	2.57	22.65	151.01	22-10-2101
	11	1.090 (27.69)	WM2731-ND	2.82	24.90	166.00	22-10-2111
	12	1.190 (30.23)	WM2732-ND◆	3.08	27.21	181.39	22-10-2121
2	2	.190 (4.83)	WM2733-ND◆	.57	5.04	33.58	22-12-2021
	3	.290 (7.37)	WM2734-ND	.83	7.33	48.85	22-12-2031
	4	.390 (9.91)	WM2735-ND◆	1.07	9.42	62.81	22-12-2041
	5	.490 (12.45)	WM2736-ND◆	1.33	11.78	78.51	22-12-2051
	6	.590 (14.99)	WM2737-ND◆	1.61	14.19	94.61	22-12-2061
	7	.690 (17.53)	WM2738-ND◆	1.88	16.55	110.31	22-12-2071
	8	.790 (20.07)	WM2739-ND◆	2.14	18.90	126.01	22-12-2081
	9	.890 (22.61)	WM2740-ND◆	2.42	21.32	142.15	22-12-2091
	10	.990 (25.15)	WM2741-ND◆	2.68	23.61	157.42	22-12-2101
	11	1.090 (27.69)	WM2742-ND	2.94	25.97	173.12	22-12-2111
	12	1.190 (30.23)	WM2743-ND	2.87	25.30	168.68	22-12-2121
3	2	.200 (5.08)	WM2700-ND◆	.60	5.30	35.32	22-11-2022
	3	.300 (7.62)	WM2701-ND◆	.97	8.57	57.11	22-11-2032
	4	.400 (10.16)	WM2702-ND◆	1.01	8.89	59.29	22-11-2042
	5	.500 (12.70)	WM2703-ND◆	1.43	12.63	84.17	22-11-2052
	6	.600 (15.24)	WM2704-ND◆	1.58	13.93	92.87	22-11-2062
	7	.700 (17.78)	WM2705-ND◆	1.84	16.22	108.14	22-11-2072
	8	.800 (20.32)	WM2706-ND◆	1.92	16.94	112.96	22-11-2082
	9	.900 (22.86)	WM2707-ND◆	2.16	19.10	127.32	22-11-2092
	10	1.000 (25.40)	WM2708-ND◆	2.40	21.19	141.28	22-11-2102
	11	1.100 (27.94)	WM2709-ND◆	2.65	23.35	155.68	22-11-2112
	12	1.200 (30.48)	WM2710-ND◆	2.88	25.45	169.64	22-11-2122
4	2	.200 (5.08)	WM2711-ND◆	1.14	10.07	67.12	22-12-2024
	3	.300 (7.62)	WM2712-ND◆	1.47	12.93	86.18	22-12-2034
	4	.400 (10.16)	WM2713-ND◆	1.73	15.31	102.04	22-12-2044
	5	.500 (12.70)	WM2714-ND◆	1.91	16.87	112.49	22-12-2054
	6	.600 (15.24)	WM2715-ND◆	2.08	18.37	122.46	22-12-2064
	7	.700 (17.78)	WM2716-ND◆	2.27	20.00	133.33	22-12-2074
	8	.800 (20.32)	WM2717-ND◆	2.37	20.88	139.22	22-12-2084
	9	.900 (22.86)	WM2718-ND◆	2.66	23.47	156.47	22-12-2094
	10	1.000 (25.40)	WM2719-ND◆	2.96	26.12	174.15	22-12-2104
	11	1.100 (27.94)	WM2720-ND◆	3.25	28.71	191.39	22-12-2114
	12	1.200 (30.48)	WM2721-ND◆	3.55	31.36	209.08	22-12-2124
Straight - Friction Lock Header - Tin — RoHS Compliant							
5	2	.200 (5.08)	WM4111-ND	.34	3.00	19.97	22-27-2021
	3	.300 (7.62)	WM4112-ND	.51	4.49	29.94	22-27-2031
	4	.400 (10.16)	WM4113-ND	.56	4.90	32.67	22-27-2041
	5	.500 (12.70)	WM4114-ND	.70	6.19	41.25	22-27-2051
	6	.600 (15.24)	WM4115-ND	.74	6.53	43.55	22-27-2061
	7	.700 (17.78)	WM4116-ND	.77	6.80	45.37	22-27-2071
	8	.800 (20.32)	WM4117-ND	.88	7.75	51.69	22-27-2081
	9	.900 (22.86)	WM4118-ND	.99	8.71	58.06	22-27-2091
	10	1.00 (25.40)	WM4119-ND	1.00	8.85	58.97	22-27-2101
	11	1.10 (27.94)	WM4120-ND	1.10	9.73	64.87	22-27-2111
	12	1.20 (30.48)	WM4121-ND	1.19	10.54	70.28	22-27-2121
Straight - Friction Lock Header - Gold — RoHS Compliant							
5	2	.200 (5.08)	WM2744-ND	.66	5.78	38.56	22-29-2021
	3	.300 (7.62)	WM2745-ND	1.06	9.39	62.57	22-29-2031
	4	.400 (10.16)	WM2746-ND	1.10	9.73	64.87	22-29-2041
	5	.500 (12.70)	WM2747-ND	1.57	13.81	92.08	22-29-2051
	6	.600 (15.24)	WM2748-ND	1.73	15.24	101.57	22-29-2061
	7	.700 (17.78)	WM2749-ND	2.00	17.69	117.91	22-29-2071
	8	.800 (20.32)	WM2750-ND	2.10	18.50	123.36	22-29-2081
	9	.900 (22.86)	WM2751-ND	2.37	20.88	139.22	22-29-2091
	10	1.00 (25.40)	WM2752-ND	2.62	23.13	154.18	22-29-2101
	11	1.10 (27.94)	WM2753-ND	2.89	25.51	170.08	22-29-2111
	12	1.20 (30.48)	WM2754-ND	3.15	27.75	185.03	22-29-2121
.100” (2.54mm) Center Crimp Terminal Housing (Contacts Sold Separately Below) With Locking Ramp and Polarizing Ribs — RoHS Compliant							
6	2	.222 (5.64)	WM2000-ND	.15	1.31	8.74	22-01-3027
	3	.322 (8.18)	WM2001-ND	.22	1.90	12.66	22-01-3037
	4	.422 (10.72)	WM2002-ND	.29	2.55	17.01	22-01-3047
	5	.522 (13.26)	WM2003-ND	.36	3.20	21.36	22-01-3057
	6	.622 (15.8)	WM2004-ND	.44	3.86	25.75	22-01-3067
	7	.722 (18.34)	WM2005-ND	.51	4.51	30.10	22-01-3077
	8	.822 (20.88)	WM2006-ND	.58	5.10	34.02	22-01-3087
	9	.922 (23.42)	WM2007-ND	.65	5.76	38.37	22-01-3097
	10	1.022 (25.96)	WM2008-ND	.73	6.41	42.76	22-01-3107
	11	1.122 (28.5)	WM2009-ND	.80	7.07	47.11	22-01-3117
	12	1.222 (31.04)	WM2010-ND	.87	7.65	51.02	22-01-3127
Without Locking Ramp or Polarizing Ribs — RoHS Compliant							
6	2	.222 (5.64)	WM1575-ND	.11	.99	6.61	22-01-2021
	3	.322 (8.18)	WM1576-ND	.17	1.52	10.14	22-01-2031
	4	.422 (10.72)	WM1577-ND	.23	1.99	13.25	22-01-2041
	5	.522 (13.26)	WM1578-ND	.28	2.51	16.75	22-01-2051
	6	.622 (15.8)	WM1579-ND	.38	3.33	22.23	22-01-2061
	7	.722 (18.34)	WM1580-ND	.40	3.51	23.39	22-01-2071
	8	.822 (20.88)	WM1581-ND	.48	4.19	27.95	22-01-2081
	9	.922 (23.42)	WM1582-ND	.51	4.50	30.00	22-01-2091
	10	1.022 (25.96)	WM1583-ND	.57	5.02	33.50	22-01-2101
	11	1.122 (28.5)	WM1584-ND	.62	5.49	36.61	22-01-2111
	12	1.222 (31.04)	WM1585-ND	.68	6.02	40.14	22-01-2121
With Locking Ramp — RoHS Compliant							
6	2	.220 (5.59)	WM2011-ND	.13	1.11	7.40	22-01-2027
	3	.320 (8.13)	WM2012-ND	.19	1.70	11.35	22-01-2037
	4	.420 (10.67)	WM2013-ND	.25	2.22	14.83	22-01-2047
	5	.520 (13.21)	WM2014-ND	.32	2.81	18.75	22-01-2057
	6	.620 (15.75)	WM2015-ND	.38	3.33	22.23	22-01-2067
	7	.720 (18.29)	WM2016-ND	.45	3.93	26.19	22-01-2077

◆ ***RoHS Compliant***

(Continued)

.100" (2.54mm) Center Headers *(Cont.)*

Fig.	Cir-cuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
				1	10	100	
6	8	.820 (20.83)	WM2017-ND	.51	4.51	30.10	22-01-2087
	9	.920 (23.37)	WM2018-ND	.57	5.04	33.58	22-01-2097
	10	1.020 (25.91)	WM2019-ND	.64	5.62	37.50	22-01-2107
	11	1.120 (28.45)	WM2020-ND	.70	6.15	40.98	22-01-2117
	12	1.220 (30.99)	WM2021-ND	.76	6.74	44.93	22-01-2127
Locking Ramp or Polarizing Ribs, Stackable — RoHS Compliant							
6	2	.218 (5.54)	WM2613-ND	.39	3.47	23.11	22-01-2025
	3	.318 (8.08)	WM2626-ND	.45	4.01	26.75	22-01-2035

Fig.	Cir-cuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
				1	10	100	
6	4	.418 (10.62)	WM2614-ND	.48	4.19	27.95	22-01-2045
	5	.518 (13.16)	WM2615-ND	.51	4.50	30.00	22-01-2055
	6	.618 (15.70)	WM2616-ND	.57	5.05	33.64	22-01-2065
	7	.718 (18.24)	WM2617-ND	.63	5.53	36.85	22-01-2075
	8	.818 (20.78)	WM2618-ND	.69	6.08	40.53	22-01-2085
	9	.918 (23.32)	WM2619-ND	.73	6.44	42.93	22-01-2095
	10	1.018 (25.86)	WM2620-ND	.79	6.99	46.61	22-01-2105
	11	1.118 (28.40)	WM2621-ND	.84	7.41	49.43	22-01-2115
	12	1.218 (30.94)	WM2622-ND	.92	8.08	53.88	22-01-2125

Fig.	Cir-cuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
				1	10	100	
Polarizing Key for .100" Housings			WM2400-ND	1.02/10			15-04-9209
Crimp Contact for Stackable Housing							
22-30 AWG, Selective Gold			WM2624-ND*	—	2.86	22.85	08-55-0111
22-30 AWG, Tin			WM2625CT-ND	—	.98	7.80	
			WM2625TR-ND	364.00/7,000			08-50-0031
			WM2623-ND*	—	1.40	11.19	08-50-0032

◆ ***RoHS Compliant***   * Bulk

Crimp Terminals For .100" (2.54mm) Center Housings

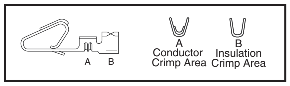

Wire Size	Insulation Dia. (Inch)	Finish	Digi-Key Part No.	Pricing			Tape and Reel†		Molex Part No.
				10	100	500	Qty.	Price	
22-30	.062 Max.	Selective Gold	WM2312-ND*	2.58	20.60	85.84	—	—	08-55-0102
			WM2312CT-ND	—	10.69	44.53	10,000	71.00/M	08-55-0101
			WM2140CT-ND	—	12.63	52.64	10,000	63.00/M	08-65-0815
22-30	.062 Max.	Gold	WM1129-ND*	8.32	66.60	277.49	—	—	08-56-0110
			WM1129CT-ND	—	39.86	166.06	10,000	266.00/M	08-56-0109
			WM2757-ND*	8.63	69.03	287.61	—	—	08-65-0814
			WM2757CT-ND	—	46.17	192.39	10,000	308.00/M	08-65-0813
22-30	.062 Max.	Tin	WM1114-ND*	1.19	9.50	39.56	—	—	08-50-0114
			WM1114CT-ND	—	3.90	16.26	10,000	26.00/M	08-50-0113
			WM2756-ND*	1.16	9.24	38.51	—	—	08-65-0805
			WM2756CT-ND	—	4.88	20.31	10,000	33.00/M	08-65-0804
			WM2758-ND*	1.34	10.69	44.53	—	—	08-52-0123
			WM2759CT-ND	—	5.34	22.25	10,000	36.00/M	08-52-0101
Universal Crimp Tool (Molex)			WM9999-ND	50.75/1					63811-1000
Production Tool (Molex)			WM9915-ND	228.96/1					11-01-0185
Extraction Tool (Molex)			WM9927-ND	6.77/1					11-03-0022
Manual Wire Stripper (Molex)			WM9969-ND	84.59/1					63817-0000

* Bulk   † For Tape and Reel part number, change CT-ND to TR-ND.

.100" (2.54mm) High Pressure Terminal Housings

- Standard with locking ramp
- 94V-0 material
- Mates with .025" (0.64mm) Pins
- Up to 425 grams normal force
- Multiple contacting points
- Patented double cantilever with box shroud
- Accepts #22 to 30 AWG wire, .062" insulation dia.

Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
			1	10	100	
1	.120 (3.05)	WM2600-ND	.20	1.65	11.79	10-11-2013
2	.220 (5.59)	WM2601-ND◆	.14	1.22	8.15	10-11-2023
3	.320 (8.13)	WM2602-ND◆	.21	1.72	12.26	10-11-2033
4	.420 (10.67)	WM2603-ND◆	.29	2.52	16.77	10-11-2043
5	.520 (13.21)	WM2604-ND◆	.36	3.13	20.89	10-11-2053
6	.620 (15.75)	WM2605-ND◆	.42	3.74	24.96	10-11-2063
7	.720 (18.29)	WM2606-ND◆	.49	4.35	29.03	10-11-2073
8	.820 (20.83)	WM2607-ND◆	.56	4.97	33.11	10-11-2083
9	.920 (23.37)	WM2608-ND◆	.63	5.58	37.18	10-11-2093
10	1.020 (25.91)	WM2609-ND◆	.71	6.26	41.73	10-11-2103
11	1.120 (28.45)	WM2610-ND	.78	6.87	45.80	10-11-2113
12	1.220 (30.99)	WM2611-ND◆	.85	7.48	49.88	10-11-2123
13	1.322 (33.58)	WM2685-ND◆	.82	7.23	48.23	10-11-2133
14	1.422 (36.12)	WM2686-ND◆	.88	7.78	51.87	10-11-2143
15	1.522 (38.66)	WM2687-ND◆	.94	8.33	55.51	10-11-2153
Crimp Terminal, 24~30, Tin/Copper Plating		WM2612-ND◆	—	1.79	14.29	08-50-0005
Crimp Terminal, 22~30, Gold Plating		WM23941-ND◆	—	5.05	40.37	08-55-0129
Terminal, 24~30, Tin Plating		WM2755CT-ND◆‡	—	1.03	8.27	08-50-0004
		WM2755TR-ND◆†	275.00/5,000			08-50-0004
Terminal, 22~30, Gold Plating		WM23941CT-ND◆‡§	—	—	33.69	08-55-0124
		WM23941TR-ND◆†§	840.00/5,000			08-55-0124

◆ ***RoHS Compliant***   ‡ Cut Tape   † Tape and Reel   § ***NEW!***

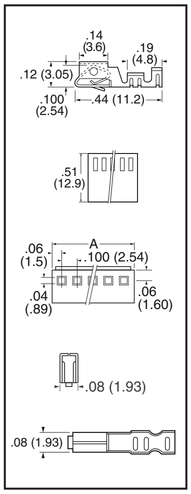

.156" Center Headers .045" Square Pins

Dimensions in Inches

- **Voltage Rating:** 250VAC Maximum
- **Current Rating:** Up to 7 Amps (with 18 AWG wire)
- **Resistance:** 20mΩ maximum
- **Dielectric Withstanding Voltage:** 1500VAC for 60 seconds
- **Operating Temperature:** 0°C ~ 75°C
- **Storage Temperature:** -40°C ~ 105°C
- **Material:** 94V-0

Fig. 1 - Straight Header

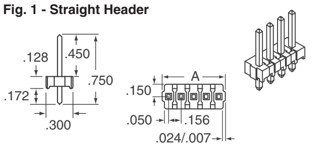

Fig. 2 - Right Angle Header

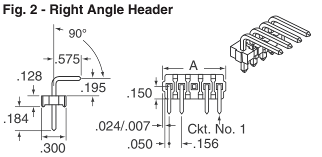

Fig. 3 - Straight-Friction Lock Header for use with Locking Ramp only

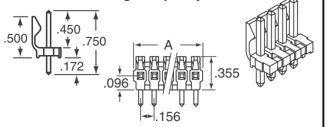

Fig. 4 - Right Angle-Friction Lock Header for use with Locking Ramp only

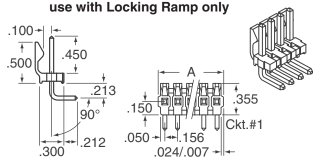

Fig. 5 - Straight Friction Lock Header for use with Locking Ramp & Polarizing Ribs

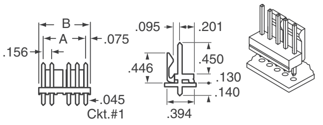

Fig. 6 - Right Angle Friction Lock Header for use with Locking Ramp & Polarizing Ribs

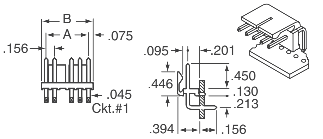

Fig. 7 - Center Crimp Terminal Housing (contacts sold separately)

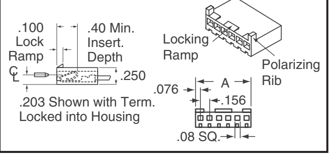

Fig.	Cir-cuits	Dim. (Inch) A	B	Digi-Key Part No.	Pricing			Molex Part No.
					1	10	100	
1	2	.267	—	WM4400-ND◆	.35	3.13	20.87	26-48-1021
	3	.423	—	WM4401-ND◆	.43	3.76	25.05	26-48-1031
	4	.579	—	WM4402-ND◆	.50	4.39	29.24	26-48-1041
	5	.735	—	WM4403-ND◆	.57	5.01	33.42	26-48-1051
	6	.891	—	WM4404-ND◆	.64	5.64	37.60	26-48-1061
	7	1.047	—	WM4405-ND	.71	6.27	41.79	26-48-1071
	8	1.203	—	WM4406-ND◆	.78	6.90	45.97	26-48-1081
	9	1.359	—	WM4407-ND◆	.85	7.52	50.16	26-48-1091
	10	1.515	—	WM4408-ND◆	.92	8.15	54.34	26-48-1101
	11	1.671	—	WM4409-ND◆	.99	8.78	58.52	26-48-1111
	12	1.827	—	WM4410-ND◆	1.07	9.41	62.71	26-48-1121
2	2	.267	—	WM4500-ND◆	.36	3.18	21.21	26-48-1022
	3	.423	—	WM4501-ND◆	.43	3.83	25.56	26-48-1032
	4	.579	—	WM4502-ND◆	.51	4.49	29.91	26-48-1042
	5	.735	—	WM4503-ND◆	.58	5.14	34.26	26-48-1052
	6	.891	—	WM4504-ND◆	.66	5.79	38.61	26-48-1062
	7	1.047	—	WM4505-ND◆	.73	6.44	42.96	26-48-1072

Fig.	Cir-cuits	Dim. (Inch) A	B	Digi-Key Part No.	Pricing			Molex Part No.
					1	10	100	
2	8	1.203	—	WM4506-ND◆	.80	7.10	47.32	26-48-1082
	9	1.359	—	WM4507-ND◆	.88	7.75	51.67	26-48-1092
	10	1.515	—	WM4508-ND◆	.95	8.40	56.02	26-48-1102
	11	1.671	—	WM4509-ND◆	1.03	9.06	60.37	26-48-1112
	12	1.827	—	WM4510-ND◆	1.10	9.71	64.72	26-48-1122
3	2	.310	—	WM4600-ND◆	.38	3.39	22.59	26-48-1025
	3	.466	—	WM4601-ND	.47	4.14	27.63	26-48-1035
	4	.622	—	WM4602-ND◆	.56	4.90	32.67	26-48-1045
	5	.778	—	WM4603-ND◆	.64	5.66	37.71	26-48-1055
	6	.934	—	WM4604-ND	.73	6.41	42.75	26-48-1065
	7	1.090	—	WM4605-ND◆	.81	7.17	47.80	26-48-1075
	8	1.246	—	WM4606-ND◆	.90	7.93	52.84	26-48-1085
	9	1.402	—	WM4607-ND◆	.98	8.68	57.88	26-48-1095
	10	1.558	—	WM4608-ND◆	1.07	9.44	62.92	26-48-1105
	11	1.714	—	WM4609-ND◆	1.16	10.19	67.96	26-48-1115
	12	1.870	—	WM4610-ND◆	1.24	10.95	73.01	26-48-1125
4	2	.310	—	WM4700-ND◆	.41	3.62	24.16	26-48-1026

Fig.	Cir-cuits	Dim. (Inch) A	B	Digi-Key Part No.	Pricing			Molex Part No.
					1	10	100	
4	3	.466	—	WM4701-ND◆	.51	4.50	29.98	26-48-1036
	4	.622	—	WM4702-ND◆	.61	5.37	35.81	26-48-1046
	5	.778	—	WM4703-ND◆	.71	6.25	41.64	26-48-1056
	6	.934	—	WM4704-ND◆	.81	7.12	47.46	26-48-1066
	7	1.090	—	WM4705-ND◆	.91	7.99	53.29	26-48-1076
	8	1.246	—	WM4706-ND◆	1.01	8.87	59.12	26-48-1086
	9	1.402	—	WM4707-ND◆	1.10	9.74	64.95	26-48-1096
	10	1.558	—	WM4708-ND◆	1.20	10.62	70.77	26-48-1106
	11	1.714	—	WM4709-ND◆	1.30	11.49	76.60	26-48-1116
	12	1.870	—	WM4710-ND◆	1.40	12.36	82.43	26-48-1126
5	2	.156	.306	WM4620-ND◆	.22	1.90	12.70	26-60-4020
	3	.312	.462	WM4621-ND◆	.32	2.86	19.07	26-60-4030
	4	.468	.618	WM4622-ND◆	.43	3.81	25.39	26-60-4040
	5	.624	.774	WM4623-ND◆	.54	4.76	31.76	26-60-4050
	6	.780	.930	WM4624-ND◆	.65	5.71	38.09	26-60-4060
	7	.936	1.086	WM4625-ND◆	.76	6.67	44.46	26-60-4070
	8	1.092	1.242	WM4626-ND◆	.86	7.62	50.79	26-60-4080

◆ ***RoHS Compliant***

(Continued)

.156" Center Headers .045" Square Pins *(Cont.)*

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
5	9	1.248	1.398	WM4627-ND◆	.97	8.57	57.15	26-60-4090
	10	1.404	1.554	WM4628-ND◆	1.08	9.52	63.48	26-60-4100
	11	1.560	1.710	WM4629-ND◆	1.19	10.48	69.85	26-60-4110
	12	1.716	1.866	WM4630-ND◆	1.30	11.43	76.18	26-60-4120
6	2	.156	.306	WM4640-ND◆	.23	2.04	13.61	26-60-5020
	3	.312	.462	WM4641-ND◆	.35	3.06	20.41	26-60-5030
	4	.468	.618	WM4642-ND◆	.46	4.08	27.21	26-60-5040
	5	.624	.774	WM4643-ND◆	.58	5.10	34.02	26-60-5050
	6	.780	.930	WM4644-ND◆	.78	6.87	45.80	26-60-5060
	7	.936	1.086	WM4645-ND◆	.81	7.14	47.62	26-60-5070
	8	1.092	1.242	WM4646-ND◆	.93	8.16	54.42	26-60-5080
	9	1.248	1.398	WM4647-ND◆	1.04	9.18	61.23	26-60-5090
	10	1.404	1.554	WM4648-ND◆	1.16	10.20	68.03	26-60-5100
	11	1.560	1.710	WM4649-ND	1.27	11.22	74.83	26-60-5110
	12	1.716	1.866	WM4650-ND	1.39	12.25	81.64	26-60-5120
Gold								
1	2	.267	—	WM5002-ND◆	.95	8.36	55.75	26-48-2021
	3	.423	—	WM5003-ND◆	1.32	11.61	77.38	26-48-2031
	4	.579	—	WM5004-ND◆	1.68	14.85	99.01	26-48-2041
	5	.735	—	WM5005-ND◆	2.05	18.09	120.63	26-48-2051
	6	.891	—	WM5006-ND◆	2.42	21.34	142.26	26-48-2061
	7	1.047	—	WM5007-ND◆	2.79	24.58	163.89	26-48-2071
	8	1.203	—	WM5008-ND◆	3.15	27.83	185.51	26-48-2081
	9	1.359	—	WM5009-ND◆	3.52	31.07	207.14	26-48-2091
	10	1.515	—	WM5010-ND◆	3.89	34.31	228.76	26-48-2101
	11	1.671	—	WM5011-ND◆	4.26	37.56	250.39	26-48-2111
	12	1.827	—	WM5012-ND◆	4.62	40.80	272.02	26-48-2121
2	2	.267	—	WM5102-ND◆	1.10	9.75	64.98	26-48-2022
	3	.423	—	WM5103-ND	1.55	13.68	91.22	26-48-2032
	4	.579	—	WM5104-ND◆	2.00	17.62	117.46	26-48-2042
	5	.735	—	WM5105-ND◆	2.44	21.55	143.70	26-48-2052
	6	.891	—	WM5106-ND◆	2.89	25.49	169.94	26-48-2062
	7	1.047	—	WM5107-ND◆	3.33	29.43	196.18	26-48-2072
	8	1.203	—	WM5108-ND◆	3.78	33.36	222.42	26-48-2082
	9	1.359	—	WM5109-ND◆	4.23	37.30	248.65	26-48-2092
	10	1.515	—	WM5110-ND◆	4.67	41.23	274.89	26-48-2102
	11	1.671	—	WM5111-ND◆	5.12	45.17	301.13	26-48-2112
	12	1.827	—	WM5112-ND◆	5.57	49.11	327.37	26-48-2122
3	2	.310	—	WM5200-ND◆	.97	8.59	57.25	26-48-2025
	3	.466	—	WM5201-ND◆	1.35	11.94	79.62	26-48-2035
	4	.622	—	WM5202-ND◆	1.73	15.30	101.99	26-48-2045
	5	.778	—	WM5203-ND◆	2.11	18.65	124.36	26-48-2055
	6	.934	—	WM5204-ND◆	2.49	22.01	146.74	26-48-2065
	7	1.090	—	WM5205-ND◆	2.87	25.37	169.11	26-48-2075
	8	1.246	—	WM5206-ND◆	3.26	28.72	191.48	26-48-2085
	9	1.402	—	WM5207-ND◆	3.64	32.08	213.85	26-48-2095
3	10	1.558	—	WM5208-ND◆	4.02	35.43	236.23	26-48-2105
	11	1.714	—	WM5209-ND◆	4.40	38.79	258.60	26-48-2115
	12	1.870	—	WM5210-ND◆	4.78	42.15	280.97	26-48-2125
4	2	.310	—	WM5212-ND◆	1.25	11.01	73.42	26-48-2026
	3	.466	—	WM5213-ND◆	1.77	15.58	103.88	26-48-2036
	4	.622	—	WM5214-ND◆	2.28	20.15	134.34	26-48-2046
	5	.778	—	WM5215-ND◆	2.80	24.72	164.80	26-48-2056
	6	.934	—	WM5216-ND◆	3.32	29.29	195.26	26-48-2066
	7	1.090	—	WM5217-ND◆	3.84	33.86	225.72	26-48-2076
	8	1.246	—	WM5218-ND◆	4.36	38.43	256.18	26-48-2086
	9	1.402	—	WM5219-ND◆	4.87	43.00	286.64	26-48-2096
	10	1.558	—	WM5220-ND◆	5.39	47.57	317.10	26-48-2106
	11	1.714	—	WM5221-ND	5.91	52.13	347.56	26-48-2116
	12	1.870	—	WM5222-ND◆	6.43	56.70	378.02	26-48-2126
5	2	.156	.306	WM5224-ND◆	1.00	8.85	58.97	26-61-4020
	3	.312	.462	WM5225-ND◆	1.50	13.20	88.01	26-61-4030
	4	.468	.618	WM5226-ND◆	1.93	17.01	113.40	26-61-4040
	5	.624	.774	WM5227-ND◆	2.40	21.16	141.04	26-61-4050
	6	.780	.930	WM5228-ND◆	2.88	25.37	169.17	26-61-4060
	7	.936	1.086	WM5229-ND◆	3.36	29.66	197.72	26-61-4070
	8	1.092	1.242	WM5230-ND◆	3.83	33.81	225.41	26-61-4080
	9	1.248	1.398	WM5231-ND◆	4.31	38.03	253.53	26-61-4090
	10	1.404	1.554	WM5232-ND◆	4.80	42.31	282.09	26-61-4100
	11	1.560	1.710	WM5233-ND◆	5.27	46.53	310.21	26-61-4110
	12	1.716	1.866	WM5234-ND◆	5.76	50.81	338.77	26-61-4120
6	2	.156	.306	WM5235-ND◆	1.14	10.07	67.12	26-61-5020
	3	.312	.462	WM5236-ND◆	1.71	15.11	100.70	26-61-5030
	4	.468	.618	WM5237-ND◆	2.22	19.59	130.60	26-61-5040
	5	.624	.774	WM5238-ND◆	2.77	24.42	162.80	26-61-5050
	6	.780	.930	WM5239-ND◆	3.33	29.39	195.90	26-61-5060
	7	.936	1.086	WM5240-ND◆	3.88	34.22	228.10	26-61-5070
	8	1.092	1.242	WM5241-ND◆	4.43	39.05	260.33	26-61-5080
	9	1.248	1.398	WM5242-ND◆	4.99	44.02	293.44	26-61-5090
	10	1.404	1.554	WM5243-ND◆	5.54	48.85	325.64	26-61-5100
	11	1.560	1.710	WM5244-ND◆	6.09	53.74	358.27	26-61-5110
	12	1.716	1.866	WM5245-ND◆	6.65	58.64	390.93	26-61-5120
Terminal Housing (Contacts Sold Separately Below) with Locking Ramp – 94V-2 Nylon — RoHS Compliant								
7	2	.310	—	WM2100-ND	.15	1.31	8.74	09-50-3021
	3	.460	—	WM2101-ND	.22	1.96	13.09	09-50-3031
	4	.620	—	WM2102-ND	.30	2.62	17.44	09-50-3041
	5	.780	—	WM2103-ND	.37	3.27	21.79	09-50-3051
	6	.930	—	WM2104-ND	.45	3.93	26.19	09-50-3061
	7	1.090	—	WM2105-ND	.52	4.58	30.53	09-50-3071
	8	1.240	—	WM2106-ND	.59	5.23	34.89	09-50-3081
	9	1.400	—	WM2107-ND	.67	5.89	39.24	09-50-3091
7	10	1.560	—	WM2108-ND	.74	6.54	43.63	09-50-3101
	11	1.710	—	WM2109-ND	.82	7.20	47.98	09-50-3111
	12	1.870	—	WM2110-ND	.89	7.85	52.33	09-50-3121
Without Locking Ramp or Polarizing Ribs – 94V-2 — RoHS Compliant								
7	2	.308	—	WM1564-ND	.13	1.17	7.81	09-50-7021
	3	.464	—	WM1565-ND	.20	1.75	11.70	09-50-7031
	4	.620	—	WM1566-ND	.26	2.34	15.58	09-50-7041
	5	.776	—	WM1567-ND	.33	2.92	19.47	09-50-7051
	6	.932	—	WM1568-ND	.40	3.51	23.39	09-50-7061
	7	1.088	—	WM1569-ND	.46	4.09	27.28	09-50-7071
	8	1.244	—	WM1570-ND	.53	4.67	31.17	09-50-7081
	9	1.400	—	WM1571-ND	.60	5.26	35.05	09-50-7091
	10	1.556	—	WM1572-ND	.66	5.85	38.97	09-50-7101
	11	1.712	—	WM1573-ND	.73	6.43	42.86	09-50-7111
	12	1.868	—	WM1574-ND	.79	7.01	46.75	09-50-7121
Polarizing Key for .156" Housings				WM2402-ND	.18	1.57	—	15-04-0219
Polarizing Peg for .156" Housings				WM2403-ND	.18	1.57	—	15-04-0220
With Locking Ramp and Polarizing Ribs – Polyester								
7	2	.340	—	WM2111-ND◆	.17	1.51	10.05	09-50-8023
	3	.500	—	WM2112-ND◆	.26	2.29	15.27	09-50-8033
	4	.650	—	WM2113-ND◆	.34	3.01	20.05	09-50-8043
	5	.810	—	WM2114-ND◆	.43	3.80	25.31	09-50-8053
	6	.970	—	WM2115-ND◆	.51	4.51	30.10	09-50-8063
	7	1.120	—	WM2116-ND◆	.60	5.30	35.32	09-50-8073
	8	1.280	—	WM2117-ND◆	.67	5.95	39.67	09-50-8083
	9	1.430	—	WM2118-ND◆	.76	6.74	44.93	09-50-8093
	10	1.600	—	WM2119-ND◆	.85	7.46	49.72	09-50-8103
	11	1.750	—	WM2120-ND	.93	8.24	54.94	09-50-8113
	12	1.900	—	WM2121-ND◆	1.02	9.03	60.20	09-05-8123
With Locking Ramp – Polyester — RoHS Compliant								
7	2	.340	—	WM2122-ND	.16	1.38	9.18	09-50-8021
	3	.500	—	WM2123-ND	.24	2.16	14.40	09-50-8031
	4	.650	—	WM2124-ND	.32	2.81	18.75	09-50-8041
	5	.810	—	WM2125-ND	.40	3.53	23.54	09-50-8051
	6	.970	—	WM2126-ND	.47	4.19	27.92	09-50-8061
	7	1.120	—	WM2127-ND	.56	4.97	33.14	09-50-8071
	8	1.280	—	WM2128-ND	.64	5.62	37.50	09-50-8081
	9	1.430	—	WM2129-ND	.72	6.34	42.28	09-50-8091
	10	1.600	—	WM2130-ND	.79	7.00	46.67	09-50-8101
	11	1.750	—	WM2131-ND	.87	7.72	51.46	09-50-8111
	12	1.900	—	WM2132-ND	.96	8.44	56.24	09-50-8121
Polarizing Key for .156" Housings				WM2404-ND	.16	1.38	—	15-04-0297

◆ *RoHS Compliant*

Crimp Terminals for .156" Center Housings

Plating: 100µ" tin plating or 20µ" of Selective Gold

Fig. 1

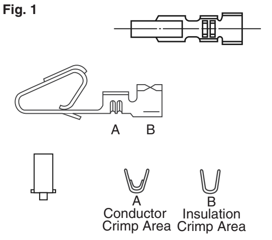

Fig. 2

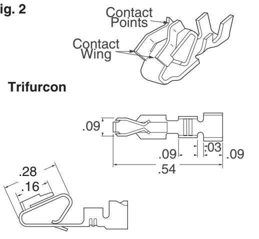

Description	Digi-Key Part No.	Price Each	Manufacture Part No.
Hand Tool (Waldom)	WM9903-ND	15.31	W-HT-1919
Universal Crimp Tool (Molex)	WM9999-ND	50.75	63811-1000
Extraction Tool (Molex)	WM9928-ND	16.92	11-03-0016
Production Tool (Molex) 18-24 AWG	WM9010-ND	243.27	63811-7500
Production Tool (Molex) 22-26 AWG	WM9011-ND	259.49	63811-7400
Manual Wire Stripper (Molex)	WM9969-ND	84.59	63817-0000

Material	Wire Size	Insulation Dia. (Inch)	Finish	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Tape & Reel◊ Qty.	Tape & Reel◊ Price	Molex Part No.
Fig. 1										
Brass	18~24	.110	Tin	WM2300-ND§	.80	6.36	26.50	—	—	08-50-0106
	18~24	.110	Tin	WM2300CT-ND§‡	—	3.90	16.26	7,000	26.00/M	08-50-0105
	18~24	.110	Gold	WM2305-ND§	7.40	59.18	246.58	—	—	08-56-0106
	18~24	.110	Gold	WM2305CT-ND§‡	—	52.49	218.70	7,000	350.00/M	08-56-0105
	22~26	.065	Tin	WM2301-ND†	.80	6.36	26.50	—	—	08-50-0108
	22~26	.065	Gold	WM2306-ND†	7.40	59.18	246.58	—	—	08-56-0108
	22~26	.065	Gold	WM2306CT-ND†‡	—	52.49	218.70	7,000	350.00/M	08-56-0107
Bronze	18~24	.110	Tin	WM2302-ND§	.80	6.36	26.50	—	—	08-52-0072
	18~24	.110	Tin	WM2302CT-ND§‡	—	3.90	16.26	7,000	26.00/M	08-52-0071
	18~24	.110	Gold	WM2135-ND§	2.31	18.49	77.03	—	—	08-65-0115
	22~26	.065	Tin	WM2303-ND†	.80	6.36	26.50	—	—	08-50-0134
	22~26	.065	Tin	WM2303TR-ND†	—	—	—	7,000	26.00/M	08-50-0133
	22~26	.065	Gold	WM2307-ND†	7.40	59.18	246.58	—	—	08-58-0126
Phosphor/ Bronze	18~24	.110	Gold	WM2304-ND§	7.40	59.18	246.58	—	—	08-58-0122
	18~24	.110	Gold	WM2304CT-ND§‡	—	52.49	218.71	7,000	350.00/M	08-58-0121
Fig. 2										
Brass	18~20	.110	Tin	WM17403-ND§	.86	6.87	28.61	—	—	08-50-0189
	18~20	.110	Tin	WM17403CT-ND§‡	—	5.34	22.26	7,000	36.00/M	08-50-0187
Phosphor/ Bronze	18~20	.110	Gold	WM23942-ND§	6.48	51.80	215.84	—	—	08-58-0189
	18~20	.110	Gold	WM23942TR-ND§	—	—	—	7,000	305.00/M	08-58-0187
	18~20	.110	Gold	WM2778CT-ND‡ ***NEW!***	—	55.12	223.93	7,000	276.00/M	08-58-0110
	18~20	.062	Gold	WM2778-ND	5.41	43.25	180.20	—	—	08-58-0111
	18~20	.062	Tin	WM2760CT-ND‡	.67	5.34	22.25	7,000	36.00/M	08-52-0112
	18~20	.110	Tin	WM2313-ND§	.86	6.87	28.61	—	—	08-52-0113
	22~26	.065	Tin	WM2314-ND†	.86	6.87	28.61	—	—	08-52-0125
	22~26	.065	Tin	WM2314TR-ND†	—	—	—	7,000	36.00/M	08-52-0124
	22~26	.065	Gold	WM2136-ND†	14.16	113.30	472.06	—	—	08-56-0124
	22~26	.065	Gold	WM2137TR-ND†	—	—	—	7,000	301.00/M	08-65-0121
	22~26	.065	Gold	WM2138-ND†	5.84	46.68	194.51	—	—	08-65-0122

‡ Cut Tape ◊ For Tape and Reel part number, change CT-ND to TR-ND.
§ For use with WM9010-ND crimp tool † For use with WM9914-ND or WM9011-ND crimp tool

P.C. Board Connectors

.100 (2.54mm) Connectors: 94V-O Material, Mates with .025" (.64mm) square pins, end-to-end stackable
.156 (3.96mm) Connectors: 94V-2 Nylon Housing. Mates with .045" (1.14mm) pins

Fig. 1 – Side Entry

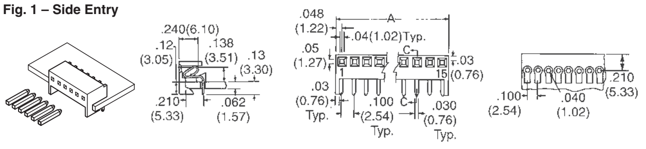

Fig. 2 – Bottom Entry

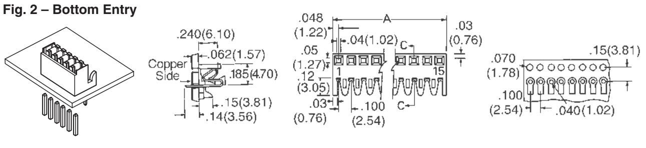

Fig. 3 – Top Entry

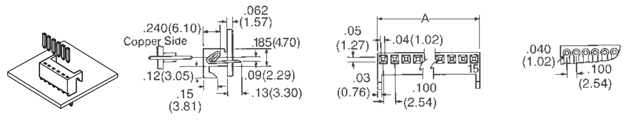

Fig. 4 – Side Entry

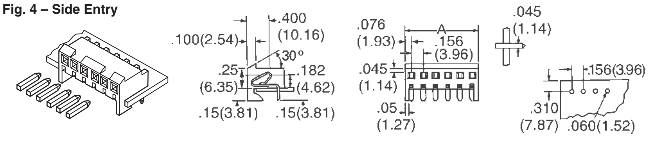

Fig. 5 – Bottom Entry

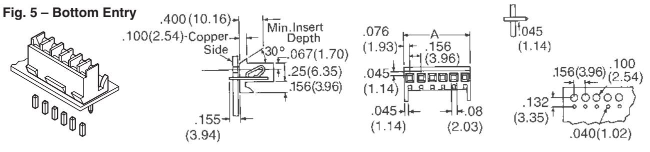

Fig. 6 – Top Entry

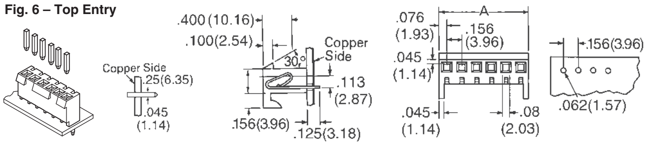

Fig.	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
			.100 (2.54mm) P.C. Board Connectors				
1	2	.196 (4.98)	WM3000-ND◆	.30	2.65	17.68	22-15-2026
	3	.296 (7.52)	WM3001-ND◆	.40	3.52	23.50	22-15-2036
	4	.396 (10.06)	WM3002-ND◆	.60	5.30	35.36	22-15-2046
	5	.496 (12.60)	WM3003-ND◆	.67	5.89	39.29	22-15-2056
	6	.596 (15.14)	WM3004-ND◆	.81	7.11	47.42	22-15-2066
	7	.696 (17.68)	WM3005-ND◆	.94	8.26	55.09	22-15-2076
	8	.796 (20.22)	WM3006-ND◆	1.07	9.48	63.21	22-15-2086
	9	.896 (22.76)	WM3007-ND	1.21	10.64	70.92	22-15-2096
	10	.996 (25.30)	WM3008-ND◆	1.34	11.85	79.01	22-15-2106
	11	1.096 (27.84)	WM3009-ND◆	1.65	14.56	97.06	22-15-2116
	12	1.196 (30.38)	WM3010-ND◆	1.61	14.22	94.80	22-15-2126
2	2	.196 (4.98)	WM3100-ND◆	.32	2.79	18.59	22-14-2024
	3	.296 (7.52)	WM3101-ND◆	.42	3.70	24.70	22-14-2034
	4	.396 (10.06)	WM3102-ND	.63	5.58	37.18	22-14-2044
	5	.496 (12.60)	WM3103-ND◆	.79	6.94	46.28	22-14-2054
	6	.596 (15.14)	WM3104-ND◆	.95	8.37	55.77	22-14-2064
	7	.696 (17.68)	WM3105-ND	1.10	9.73	64.87	22-14-2074
	8	.796 (20.22)	WM3106-ND	1.13	9.96	66.43	22-14-2084
	9	.896 (22.76)	WM3107-ND◆	1.42	12.52	83.46	22-14-2094
	10	.996 (25.30)	WM3108-ND	1.41	12.46	83.07	22-14-2104
	11	1.096 (27.84)	WM3109-ND	1.55	13.67	91.16	22-14-2114
	12	1.196 (30.38)	WM3110-ND◆	1.69	14.95	99.68	22-14-2124
3	2	.196 (4.98)	WM3200-ND	.27	2.37	15.80	22-02-2025
	3	.296 (7.52)	WM3201-ND◆	.40	3.52	23.50	22-02-2035
	4	.396 (10.06)	WM3202-ND	.54	4.74	31.59	22-02-2045
	5	.496 (12.60)	WM3203-ND◆	.67	5.89	39.29	22-02-2055
	6	.596 (15.14)	WM3204-ND◆	.81	7.11	47.42	22-02-2065
	7	.696 (17.68)	WM3205-ND◆	.94	8.26	55.09	22-02-2075
	8	.796 (20.22)	WM3206-ND◆	1.07	9.48	63.21	22-02-2085
	9	.896 (22.76)	WM3207-ND	1.21	10.64	70.92	22-02-2095
	10	.996 (25.30)	WM3208-ND	1.34	11.85	79.01	22-02-2105
	11	1.096 (27.84)	WM3209-ND	1.47	13.01	86.71	22-02-2115
	12	1.196 (30.38)	WM3210-ND◆	1.61	14.22	94.80	22-02-2125
			.100 (2.54mm) P.C. Board Connectors - Gold				
1	2	.196 (4.98)	WM3211-ND◆	.38	3.33	22.23	22-16-2020
	3	.296 (7.52)	WM3212-ND◆	.50	4.44	29.58	22-16-2030
	4	.396 (10.06)	WM3213-ND◆	.75	6.60	43.98	22-16-2040
	5	.496 (12.60)	WM3214-ND◆	.93	8.23	54.86	22-16-2050
	6	.596 (15.14)	WM3215-ND◆	1.01	8.87	59.15	22-16-2060
	7	.696 (17.68)	WM3216-ND	1.31	11.56	77.09	22-16-2070
	8	.796 (20.22)	WM3217-ND	1.34	11.79	78.62	22-16-2080
	9	.896 (22.76)	WM3218-ND◆	1.68	14.83	98.88	22-16-2090
	10	.996 (25.30)	WM3219-ND	1.87	16.53	110.19	22-16-2100
	11	1.096 (27.84)	WM3220-ND◆	2.06	18.16	121.07	22-16-2110
	12	1.196 (30.38)	WM3221-ND◆	2.00	17.69	117.91	22-16-2120
2	2	.196 (4.98)	WM3222-ND	.39	3.47	23.14	22-17-3022
	3	.296 (7.52)	WM3223-ND	.59	5.17	34.45	22-17-3032
	4	.396 (10.06)	WM3224-ND	.79	6.94	46.28	22-17-3042
	5	.496 (12.60)	WM3225-ND◆	.98	8.64	57.59	22-17-3052
	6	.596 (15.14)	WM3226-ND◆	1.05	9.30	61.98	22-17-3062
	7	.696 (17.68)	WM3227-ND◆	1.23	10.82	72.12	22-17-3072
	8	.796 (20.22)	WM3228-ND◆	1.57	13.88	92.51	22-17-3082
	10	.996 (25.30)	WM3230-ND	1.97	17.35	115.65	22-17-3102
	11	1.096 (27.84)	WM3231-ND	2.16	19.05	127.00	22-17-3112
	12	1.196 (30.38)	WM3232-ND◆	2.36	20.82	138.79	22-17-3122
3	2	.196 (4.98)	WM3233-ND	.34	2.98	19.86	22-18-2021
	3	.296 (7.52)	WM3234-ND	.50	4.44	29.58	22-18-2031
	4	.396 (10.06)	WM3235-ND◆	.67	5.89	39.29	22-18-2041
	5	.496 (12.60)	WM3236-ND◆	.93	8.23	54.86	22-18-2051
	6	.596 (15.14)	WM3237-ND◆	1.01	8.87	59.15	22-18-2061
	7	.696 (17.68)	WM3238-ND	1.17	10.33	68.87	22-18-2071
	8	.796 (20.22)	WM3239-ND◆	1.34	11.79	78.62	22-18-2081
	9	.896 (22.76)	WM3240-ND◆	1.50	13.25	88.33	22-18-2091
	10	.996 (25.30)	WM3241-ND	1.67	14.77	98.44	22-18-2101
	11	1.096 (27.84)	WM3242-ND◆	1.84	16.22	108.16	22-18-2111
	12	1.196 (30.38)	WM3243-ND◆	2.00	17.69	117.91	22-18-2121
			.156 (3.96mm) P.C. Board Connectors				
4	11	1.71 (43.43)	WM3308-ND◆	1.76	15.56	103.70	09-52-3111
5	5	.78 (19.81)	WM3402-ND◆	.94	8.30	55.34	09-52-3052
	7	1.09 (27.69)	WM3404-ND◆	1.47	12.93	86.18	09-52-3072
	12	1.87 (47.50)	WM3409-ND◆	2.02	17.87	119.11	09-52-3122
6	7	1.09 (27.69)	WM3504-ND	1.26	11.09	73.93	09-52-3073

Fig.	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
			.156 (3.96mm) P.C. Board Connectors — RoHS Compliant				
4	2	.308 (7.82)	WM13299-ND	.32	2.80	18.66	09-48-1024
	3	.46 (11.68)	WM13300-ND	.48	4.19	27.95	09-48-1034
	4	.62 (15.75)	WM13301-ND	.63	5.59	37.28	09-48-1044
	5	.78 (19.81)	WM13302-ND	.79	6.99	46.61	09-48-1054
	6	.93 (23.62)	WM13303-ND	.95	8.38	55.90	09-48-1064
	7	1.09 (27.69)	WM13304-ND	1.27	11.18	74.55	09-48-1074
	8	1.24 (31.50)	WM13305-ND	1.39	12.27	81.83	09-48-1084
	9	1.40 (35.56)	WM13306-ND	1.43	12.58	83.88	09-48-1094
	10	1.56 (39.62)	WM13307-ND	1.58	13.98	93.18	09-48-1104
	11	1.71 (43.43)	WM13308-ND	1.74	15.38	102.50	09-48-1114
	12	1.87 (47.50)	WM13309-ND	1.90	16.77	111.83	09-48-1124
5	2	.308 (7.82)	WM13399-ND	.39	3.40	22.69	09-48-4029
	3	.46 (11.68)	WM13400-ND	.50	4.38	29.19	09-48-4039
	4	.62 (15.75)	WM13401-ND	.67	5.89	39.29	09-48-4049
	5	.78 (19.81)	WM13402-ND	1.32	11.61	77.38	09-48-4059
	7	1.09 (27.69)	WM13404-ND	1.16	10.27	68.48	09-48-4079
	8	1.24 (31.50)	WM13405-ND	1.98	17.44	116.28	09-48-4089
	9	1.40 (35.56)	WM13406-ND	1.49	13.19	87.91	09-48-4099
	10	1.56 (39.62)	WM13407-ND	1.67	14.71	98.05	09-48-4109
	11	1.71 (43.43)	WM13408-ND	1.83	16.17	107.77	09-48-4119
	12	1.87 (47.50)	WM13409-ND	2.00	17.62	117.48	09-48-4129
6	2	.308 (7.82)	WM13499-ND	.32	2.80	18.66	09-48-4028
	3	.46 (11.68)	WM13500-ND	.48	4.19	27.95	09-48-4038
	4	.62 (15.75)	WM13501-ND	.63	5.59	37.28	09-48-4048
	5	.78 (19.81)	WM13502-ND	1.07	9.42	62.79	09-48-4058
	6	.93 (23.62)	WM13503-ND	.95	8.38	55.90	09-48-4068
	7	1.09 (27.69)	WM13504-ND	1.27	11.18	74.55	09-48-4078
	8	1.24 (31.50)	WM13505-ND	1.39	12.27	81.83	09-48-4088
	9	1.40 (35.56)	WM13506-ND	1.43	12.58	83.88	09-48-4098
	10	1.56 (39.62)	WM13507-ND	1.58	13.98	93.18	09-48-4108
	11	1.71 (43.43)	WM13508-ND	1.74	15.38	102.50	09-48-4118
	12	1.87 (47.50)	WM13509-ND	1.90	16.77	111.83	09-48-4128
			.156 (3.96mm) P.C. Board Connectors - Gold				
5	8	1.24 (31.50)	WM3525-ND◆	2.33	20.54	136.90	09-62-3082
6	11	1.71 (43.43)	WM3538-ND	3.87	34.15	227.64	09-62-3113
			.156 (3.96mm) P.C. Board Connectors - Gold — RoHS Compliant				
4	2	.308 (7.82)	WM13540-ND	.50	4.38	29.19	09-48-3025
	3	.46 (11.68)	WM13510-ND	.79	6.93	46.18	09-48-3035
	4	.62 (15.75)	WM13511-ND	1.05	9.30	61.98	09-48-3045
	5	.78 (19.81)	WM13512-ND	1.32	11.61	77.38	09-48-3055
	6	.93 (23.62)	WM13513-ND	1.58	13.92	92.79	09-48-3065
	7	1.09 (27.69)	WM13514-ND	1.84	16.22	108.16	09-48-3075
	8	1.24 (31.50)	WM13515-ND	2.10	18.53	123.56	09-48-3085
	9	1.40 (35.56)	WM13516-ND	2.36	20.84	138.97	09-48-3095
	10	1.56 (39.62)	WM13517-ND	2.62	23.16	154.37	09-48-3105
	11	1.71 (43.43)	WM13518-ND	2.89	25.52	170.17	09-48-3115
	12	1.87 (47.50)	WM13519-ND	3.15	27.84	185.57	09-48-3125
5	2	.308 (7.82)	WM13541-ND	.52	4.60	30.64	09-48-3024
	3	.46 (11.68)	WM13520-ND	.83	7.29	48.62	09-48-3034
	4	.62 (15.75)	WM13521-ND	1.10	9.73	64.84	09-48-3044
	5	.78 (19.81)	WM13522-ND	1.38	12.15	81.02	09-48-3054
	6	.93 (23.62)	WM13523-ND	1.65	14.59	97.24	09-48-3064
	7	1.09 (27.69)	WM13524-ND	1.93	17.02	113.46	09-48-3074
	8	1.24 (31.50)	WM13525-ND	2.20	19.45	129.64	09-48-3084
	9	1.40 (35.56)	WM13526-ND	2.48	21.88	145.86	09-48-3094
	10	1.56 (39.62)	WM13527-ND	2.75	24.31	162.04	09-48-3104
	11	1.71 (43.43)	WM13528-ND	3.03	26.74	178.26	09-48-3114
	12	1.87 (47.50)	WM13529-ND	3.31	29.23	194.86	09-48-3124
6	2	.308 (7.82)	WM13542-ND	.50	4.38	40.86	09-48-3026
	3	.46 (11.68)	WM13530-ND	.79	6.93	46.18	09-48-3036
	5	.78 (19.81)	WM13532-ND	1.32	11.61	77.38	09-48-3056
	6	.93 (23.62)	WM13533-ND	1.58	13.92	92.79	09-48-3066
	7	1.09 (27.69)	WM13534-ND	1.84	16.22	108.16	09-48-3076
	8	1.24 (31.50)	WM13535-ND	2.10	18.53	123.56	09-48-3086
	9	1.40 (35.56)	WM13536-ND	2.36	20.84	138.97	09-48-3096
	10	1.56 (39.62)	WM13537-ND	2.62	23.16	154.37	09-48-3106
	11	1.71 (43.43)	WM13538-ND	2.89	25.52	170.17	09-48-3116
	12	1.87 (47.50)	WM13539-ND	3.15	27.84	185.57	09-48-3126

◆ *RoHS Compliant*

"Toy Car" Battery Connector

Fig. 1 – Plug

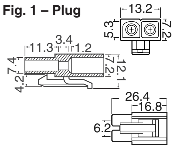

Fig. 2 – Socket

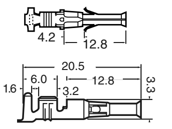

Fig. 3 – Receptacle

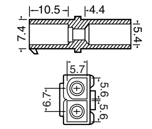

Fig. 4 – Pin

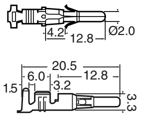

Features:

- 15 Amp current rating per circuit
- 300V voltage rating
- 14-20 AWG wire range
- Nylon 6/6 housing 94V-2
- Industry standard product for radio controlled toy cars

Fig.	Digi-Key Part No.	Pricing 1	10	50	100	Molex Part No.
1	WM2308-ND	.40	3.54	16.50	23.58	35143-0201
2	WM2311-ND	.11	.97	4.51	6.44	35728-0201
3	WM2309-ND	.39	3.40	15.86	22.66	35141-0201
4	WM2310-ND	.12	1.10	5.14	7.34	35727-0201

WM9999-ND	Universal Crimp Tool (Waldom)	**$50.75**
WM9969-ND	Manual Wire Stripper (Waldom)	**$84.59**

Crimp Terminal Connector Kits

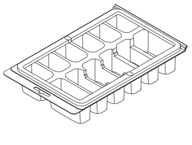

Item	WM9983 Kit Qty.	WM9981 Kit Qty.
Crimp Terminal Housings	36	48
Straight Headers	18	24
Right Angle Headers	18	24
Shunts	10	—
Crimp Terminal (22-30 AWG)	100	—
Crimp Terminal (18-24 AWG)	—	100
Crimping Tool 63811-1000	1	1
Extractor Tool HT-1884	1	1

Description	Digi-Key Part No.	Price Each	Molex Part No.
KK Series .100" Connector Kit	WM9983-ND	51.55	MXKK-100
KK Series .156" Connector Kit	WM9981-ND	47.48	MXKK-156

C-Grid® SL™ .100

Material: • **Pins:** .025"square, phosphor bronze • **Insulator**: UL 94V-0 glass filled PCT, black; Vapor phase and infrared process compatible • **Plating:** 15µ" minimum gold or 150µ" minimum tin/lead **Electrical**: • **Current Rating**: 3 amps • **Insulation Resistance:** 1,000MΩ • **Dielectric Strength:** 600VAC r.m.s for 1 minute **Environmental**: • **Operating Temperature:** -40°C ~ 105°C • UL Listed and CSA Certified

Fig. 1 – "G" Version, End-to-End Stackable
(Use C-Grid
Crimp Terminals sold separately)

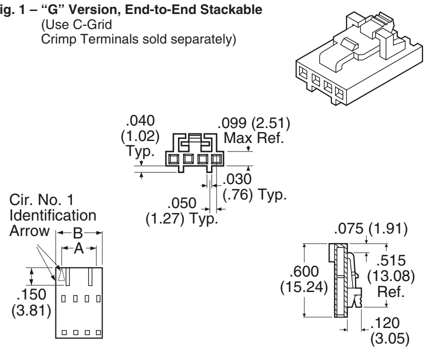

Fig. 2 – "A" Version
(Use C-Grid Crimp Terminals
sold separately)

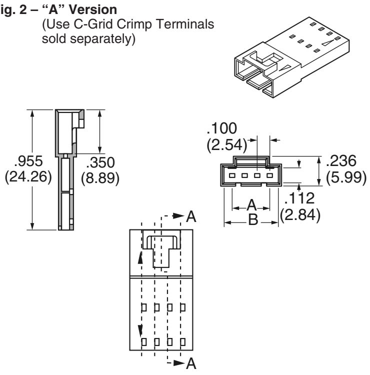

Fig. 3 – Straight Header

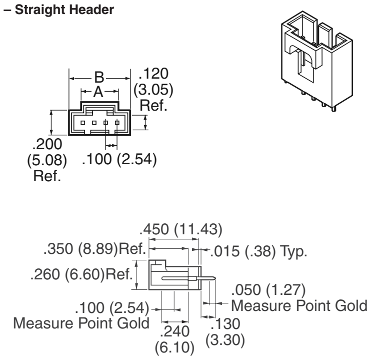

Fig. 4 – Right Angle Header

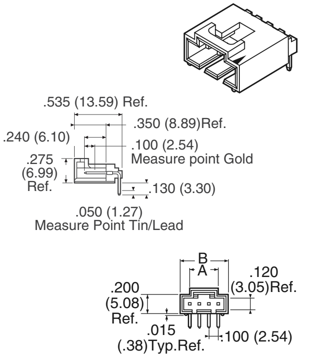

Fig. 5 – Right Angle Header with Pegs

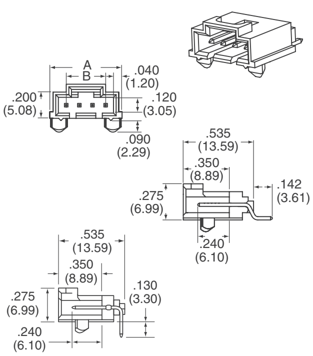

Fig. 6 – Straight Header SMT

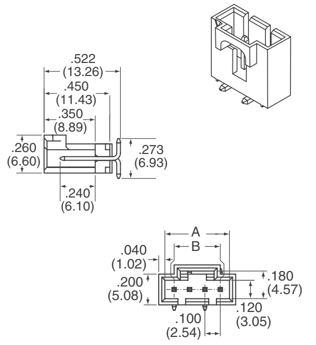

Fig. 7 – Vertical with Pegs

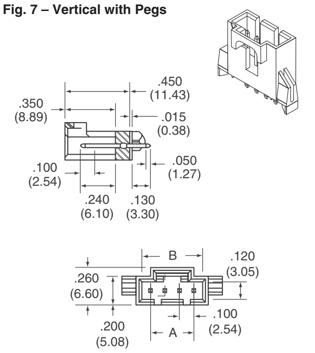

Fig.	Cir-cuits	Dimension – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
Receptacle Housing (Contact Sold Separately)									
1	2	.100 (2.54)	.199 (5.05)	WM2900-ND◆	.44	3.56	29.67	118.66	50-57-9402
	3	.200 (5.08)	.299 (7.59)	WM2901-ND◆	.31	2.46	20.49	81.95	50-57-9403
	4	.300 (7.62)	.399 (10.13)	WM2902-ND◆	.43	3.46	28.80	115.18	50-57-9404
	5	.400 (10.16)	.499 (12.67)	WM2903-ND◆	.56	4.45	37.06	148.24	50-57-9405
	6	.500 (12.70)	.599 (15.21)	WM2904-ND◆	.65	5.24	43.63	174.51	50-57-9406
	7	.600 (15.24)	.699 (17.75)	WM2905-ND◆	.75	6.02	50.15	200.61	50-57-9407
	8	.700 (17.78)	.799 (20.29)	WM2906-ND◆	.82	6.54	54.50	218.01	50-57-9408
	9	.800 (20.32)	.899 (22.83)	WM2907-ND◆	.83	6.65	55.38	221.50	50-57-9409
	10	.900 (22.86)	.999 (25.37)	WM2908-ND◆	.84	6.70	55.81	223.24	50-57-9410
	11	1.00 (25.40)	1.099 (27.91)	WM2909-ND◆	.94	7.48	62.37	249.49	50-57-9411
	12	1.10 (27.94)	1.199 (30.45)	WM2910-ND◆	.80	6.44	53.63	214.53	50-57-9412
	13	1.20 (30.48)	1.299 (32.99)	WM2911-ND◆	1.16	9.26	77.17	308.66	50-57-9413
	14	1.30 (33.02)	1.399 (35.53)	WM2912-ND◆	1.26	10.10	84.17	336.67	50-57-9414
	15	1.40 (35.56)	1.499 (38.07)	WM2913-ND◆	1.32	10.57	88.08	352.33	50-57-9415
	16	1.50 (38.10)	1.599 (40.61)	WM2914-ND◆	1.39	11.14	92.87	371.48	50-57-9416
	17	1.60 (40.64)	1.699 (43.15)	WM2915-ND◆	1.45	11.57	96.39	385.55	50-57-9417
	18	1.70 (43.18)	1.799 (45.69)	WM2916-ND◆	1.52	12.19	101.61	406.44	50-57-9418
	19	1.80 (45.72)	1.899 (48.23)	WM2917-ND	1.88	15.02	125.14	500.57	50-57-9419
	20	1.90 (48.26)	1.999 (50.77)	WM2918-ND◆	1.95	15.60	129.97	519.88	50-57-9420
	21	2.00 (50.80)	2.099 (53.31)	WM2919-ND◆	2.01	16.07	133.88	535.53	50-57-9421
1	22	2.10 (53.34)	2.199 (55.85)	WM2920-ND◆	2.07	16.54	137.80	551.20	50-57-9422
	23	2.20 (55.88)	2.299 (58.39)	WM2921-ND	2.13	17.01	141.72	566.87	50-57-9423
	24	2.30 (58.42)	2.399 (60.93)	WM2922-ND◆	2.20	17.58	146.50	586.01	50-57-9424
	25	2.40 (60.96)	2.499 (63.47)	WM2923-ND◆	2.26	18.11	150.89	603.56	50-57-9425
Pin Housing (Contact Sold Separately) — RoHS Compliant									
2	2	.100 (2.54)	.220 (5.59)	WM2533-ND	.98	7.84	65.35	261.40	70107-0001
	3	.200 (5.08)	.320 (8.13)	WM2534-ND	.99	7.94	66.20	264.79	70107-0002
	4	.300 (7.62)	.420 (10.67)	WM2535-ND	1.03	8.24	68.66	274.65	70107-0003
	5	.400 (10.16)	.520 (13.21)	WM2536-ND	1.19	9.53	79.42	317.68	70107-0004
	6	.500 (12.70)	.620 (15.75)	WM2537-ND	1.51	12.06	100.49	401.95	70107-0005
	7	.600 (15.24)	.720 (18.29)	WM2538-ND	1.53	12.20	101.68	406.72	70107-0006
	8	.700 (17.78)	.820 (20.83)	WM2539-ND	1.57	12.52	104.36	417.43	70107-0007
	9	.800 (20.32)	.920 (23.37)	WM2540-ND	1.59	12.76	106.32	425.27	70107-0008
	10	.900 (22.86)	1.020 (25.91)	WM2541-ND	1.66	13.26	110.53	442.13	70107-0009
	11	1.00 (25.40)	1.18 (29.97)	WM2543-ND	1.72	13.77	114.76	459.05	70107-0010
	12	1.10 (27.94)	1.28 (32.51)	WM2544-ND	1.76	14.07	117.27	469.08	70107-0011
15µ" Minimum Gold									
3	2	.100 (2.54)	.290 (7.37)	WM4800-ND◆	1.06	8.48	70.63	282.52	70543-0001
	3	.200 (5.08)	.400 (10.17)	WM4801-ND◆	1.05	8.42	70.21	280.83	70543-0002
	4	.300 (7.62)	.500 (12.71)	WM4802-ND◆	1.14	9.09	75.72	302.87	70543-0003

◆ RoHS Compliant

(Continued)

Fig.	Cir-cuits	Dimension – Inch (mm)		Digi-Key	Pricing				Molex
		A	B	Part No.	1	10	100	500	Part No.
3	5	.400 (10.16)	.600 (15.25)	WM4803-ND◆	1.31	10.46	87.20	348.81	70543-0004
	6	.500 (12.70)	.700 (17.79)	WM4804-ND◆	1.32	10.57	88.05	352.21	70543-0005
	7	.600 (15.24)	.800 (20.33)	WM4805-ND◆	1.63	13.02	108.47	433.89	70543-0006
	8	.700 (17.78)	.900 (22.87)	WM4806-ND◆	1.74	13.94	116.14	464.57	70543-0007
	9	.800 (20.32)	1.000 (25.41)	WM4807-ND◆	1.86	14.85	123.77	495.09	70543-0008
	10	.900 (22.86)	1.100 (27.95)	WM4808-ND◆	1.97	15.77	131.44	525.76	70543-0009
	11	1.00 (25.40)	1.200 (30.49)	WM4809-ND◆	2.07	16.59	138.26	553.03	70543-0010
	12	1.10 (27.94)	1.300 (33.03)	WM4810-ND◆	2.20	17.56	146.35	585.41	70543-0011
	13	1.20 (30.48)	1.400 (35.57)	WM4811-ND◆	2.30	18.43	153.56	614.24	70543-0012
	14	1.30 (33.02)	1.500 (38.11)	WM4812-ND◆	2.42	19.40	161.65	646.60	70543-0013
	15	1.40 (35.56)	1.600 (40.65)	WM4813-ND◆	2.54	20.32	169.32	677.27	70543-0014
	16	1.50 (38.10)	1.700 (43.19)	WM4814-ND◆	2.65	21.23	176.95	707.79	70543-0015
	17	1.60 (40.64)	1.800 (45.73)	WM4815-ND	2.75	22.00	183.35	733.38	70543-0016
	18	1.70 (43.18)	1.900 (48.27)	WM4816-ND◆	2.87	22.92	191.01	764.05	70543-0017
	19	1.80 (45.72)	2.000 (50.81)	WM4817-ND	2.99	23.94	199.49	797.97	70543-0018
	20	1.90 (48.26)	2.100 (53.35)	WM4818-ND◆	3.08	24.66	205.46	821.85	70543-0019
	21	2.00 (50.80)	2.200 (55.89)	WM4819-ND◆	3.22	25.73	214.40	857.61	70543-0020
	22	2.10 (53.34)	2.300 (58.43)	WM4820-ND◆	3.30	26.39	219.92	879.66	70543-0021
	23	2.20 (55.88)	2.400 (60.97)	WM4821-ND	3.43	27.46	228.86	915.42	70543-0022
	24	2.30 (58.42)	2.500 (63.51)	WM4822-ND◆	3.53	28.23	235.25	940.99	70543-0023
	25	2.40 (60.96)	2.600 (66.05)	WM4823-ND◆	3.67	29.35	244.61	978.45	70543-0024
30μ” Gold — RoHS Compliant									
3	2	.100 (2.54)	.210 (5.33)	WM4122-ND	1.14	9.09	75.72	302.87	70543-0106
	3	.200 (5.08)	.320 (8.13)	WM4123-ND	1.24	9.96	82.96	331.85	70543-0107
	4	.300 (7.62)	.420 (10.67)	WM4124-ND	1.45	11.64	96.99	387.96	70543-0108
	5	.400 (10.16)	.520 (13.21)	WM4125-ND	1.60	12.81	106.78	427.11	70543-0109
	6	.500 (12.70)	.620 (15.75)	WM4126-ND	1.75	13.99	116.57	466.26	70543-0110
	7	.600 (15.24)	.720 (18.29)	WM4127-ND	1.90	15.21	126.78	507.10	70543-0111
	8	.700 (17.78)	.820 (20.83)	WM4128-ND	1.56	12.51	104.23	416.93	70543-0112
	9	.800 (20.32)	.920 (23.37)	WM4129-ND	2.20	17.61	146.78	587.10	70543-0113
	10	.900 (22.86)	1.020 (25.91)	WM4130-ND	2.04	16.34	136.14	544.55	70543-0114
	11	1.000 (25.40)	1.120 (28.45)	WM4131-ND	2.50	20.01	166.74	666.95	70543-0115
	12	1.100 (27.94)	1.220 (30.99)	WM4132-ND	2.66	21.28	177.37	709.49	70543-0116
150μ” Tin									
3	2	.100 (2.54)	.290 (7.37)	WM4824-ND◆	.96	7.71	64.24	256.94	70543-0036
	3	.200 (5.08)	.400 (10.17)	WM4825-ND◆	1.03	8.22	68.48	273.90	70543-0037
	4	.300 (7.62)	.500 (12.71)	WM4826-ND◆	1.10	8.83	73.60	294.39	70543-0038
	5	.400 (10.16)	.600 (15.25)	WM4827-ND◆	1.16	9.29	77.42	309.66	70543-0039
	6	.500 (12.70)	.700 (17.79)	WM4828-ND◆	1.02	8.17	68.05	272.21	70543-0040
	7	.600 (15.24)	.800 (20.33)	WM4829-ND◆	1.30	10.36	86.36	345.42	70543-0041
	8	.700 (17.78)	.900 (22.87)	WM4830-ND◆	1.35	10.77	89.75	358.99	70543-0042
	9	.800 (20.32)	1.000 (25.41)	WM4831-ND◆	1.41	11.28	94.02	376.09	70543-0043
	10	.900 (22.86)	1.100 (27.95)	WM4832-ND◆	1.49	11.89	99.11	396.44	70543-0044
	11	1.00 (25.40)	1.200 (30.49)	WM4833-ND	1.54	12.36	102.96	411.84	70543-0045
	12	1.10 (27.94)	1.300 (33.03)	WM4834-ND◆	1.60	12.81	106.78	427.11	70543-0046
15μ” Minimum Gold									
4	2	.100 (2.54)	.290 (7.37)	WM4900-ND◆	.89	7.15	59.57	238.29	70553-0001
	3	.200 (5.08)	.400 (10.17)	WM4901-ND◆	1.17	9.34	77.84	311.35	70553-0002
	4	.300 (7.62)	.500 (12.71)	WM4902-ND◆	1.21	9.70	80.84	323.37	70553-0003
	5	.400 (10.16)	.600 (15.25)	WM4903-ND◆	1.40	11.23	93.60	374.39	70553-0004
	6	.500 (12.70)	.700 (17.79)	WM4904-ND◆	1.40	11.23	93.60	374.39	70553-0005
	7	.600 (15.24)	.800 (20.33)	WM4905-ND◆	1.63	13.02	108.47	433.89	70553-0006
	8	.700 (17.78)	.900 (22.87)	WM4906-ND◆	1.74	13.94	116.14	464.57	70553-0007
	9	.800 (20.32)	1.000 (25.41)	WM4907-ND◆	1.86	14.85	123.77	495.09	70553-0008
	10	.900 (22.86)	1.100 (27.95)	WM4908-ND◆	1.97	15.77	131.44	525.76	70553-0009
	11	1.00 (25.40)	1.200 (30.49)	WM4909-ND◆	2.07	16.59	138.26	553.03	70553-0010
	12	1.10 (27.94)	1.300 (33.03)	WM4910-ND◆	2.20	17.56	146.35	585.41	70553-0011
	13	1.20 (30.48)	1.400 (35.57)	WM4911-ND◆	2.30	18.43	153.56	614.24	70553-0012
	14	1.30 (33.02)	1.500 (38.11)	WM4912-ND◆	2.42	19.40	161.65	646.60	70553-0013
	15	1.40 (35.56)	1.600 (40.65)	WM4913-ND◆	2.54	20.32	169.32	677.27	70553-0014
	16	1.50 (38.10)	1.700 (43.19)	WM4914-ND◆	2.65	21.23	176.95	707.79	70553-0015
	17	1.60 (40.64)	1.800 (45.73)	WM4915-ND	2.75	22.00	183.35	733.38	70553-0016
	18	1.70 (43.18)	1.900 (48.27)	WM4916-ND◆	2.87	22.92	191.01	764.05	70553-0017
	19	1.80 (45.72)	2.000 (50.81)	WM4917-ND	2.99	23.94	199.49	797.97	70553-0018
	20	1.90 (48.26)	2.100 (53.35)	WM4918-ND◆	3.08	24.66	205.46	821.85	70553-0019
	21	2.00 (50.80)	2.200 (55.89)	WM4919-ND◆	3.22	25.73	214.40	857.61	70553-0020
	22	2.10 (53.34)	2.300 (58.43)	WM4920-ND◆	3.30	26.39	219.92	879.66	70553-0021
	23	2.20 (55.88)	2.400 (60.97)	WM4921-ND◆	3.43	27.46	228.86	915.42	70553-0022
	24	2.30 (58.42)	2.500 (63.51)	WM4922-ND◆	3.53	28.23	235.25	940.99	70553-0023
	25	2.40 (60.96)	2.600 (66.05)	WM4923-ND◆	3.67	29.35	244.61	978.45	70553-0024
Right Angle 30μ” Gold — Through Hole — RoHS Compliant									
4	2	.100 (2.54)	.210 (5.33)	WM4153-ND	1.14	9.09	75.72	302.87	70553-0106
	3	.200 (5.08)	.320 (8.13)	WM4154-ND	1.29	10.31	85.93	343.73	70553-0107
	4	.300 (7.62)	.420 (10.67)	WM4155-ND	1.45	11.64	96.99	387.96	70553-0108
	5	.400 (10.16)	.520 (13.21)	WM4156-ND	1.60	12.81	106.78	427.11	70553-0109
	6	.500 (12.70)	.620 (15.75)	WM4157-ND	1.75	13.99	116.57	466.26	70553-0110
	7	.600 (15.24)	.720 (18.29)	WM4158-ND	1.90	15.21	126.78	507.10	70553-0111
	8	.700 (17.78)	.820 (20.83)	WM4159-ND	2.05	16.39	136.56	546.25	70553-0112
	9	.800 (20.32)	.920 (23.37)	WM4160-ND	2.20	17.61	146.78	587.10	70553-0113
	10	.900 (22.86)	1.020 (25.91)	WM4161-ND	2.36	18.89	157.41	629.64	70553-0114
	11	1.000 (25.40)	1.120 (28.45)	WM4162-ND	3.45	27.56	229.70	918.81	70553-0115
	12	1.100 (27.94)	1.220 (30.99)	WM4163-ND	2.66	21.28	177.37	709.49	70553-0116
150μ” Tin									
4	2	.100 (2.54)	.290 (7.37)	WM4924-ND◆	.96	7.71	64.24	256.94	70553-0036
	3	.200 (5.08)	.400 (10.17)	WM4925-ND◆	1.03	8.22	68.48	273.90	70553-0037
	4	.300 (7.62)	.500 (12.71)	WM4926-ND◆	.93	7.40	61.69	246.77	70553-0038
	5	.400 (10.16)	.600 (15.25)	WM4927-ND◆	1.16	9.29	77.42	309.66	70553-0039
	6	.500 (12.70)	.700 (17.79)	WM4928-ND◆	1.23	9.85	82.12	328.46	70553-0040
	7	.600 (15.24)	.800 (20.33)	WM4929-ND	1.30	10.36	86.36	345.42	70553-0041
	8	.700 (17.78)	.900 (22.87)	WM4930-ND◆	1.35	10.77	89.75	358.99	70553-0042
	9	.800 (20.32)	1.00 (25.41)	WM4931-ND◆	1.41	11.28	94.02	376.09	70553-0043
	10	.900 (22.86)	1.10 (27.95)	WM4932-ND◆	1.49	11.89	99.11	396.44	70553-0044
	11	1.00 (25.40)	1.20 (30.49)	WM4933-ND	1.54	12.36	102.96	411.84	70553-0045
	12	1.10 (27.94)	1.30 (33.03)	WM4934-ND◆	1.60	12.81	106.78	427.11	70553-0046
15μ” Gold — SMD									
5	2	.340 (8.63)	.100 (2.54)	WM1340-ND◆	2.55	20.41	170.08	680.30	15-91-2025
	3	.450 (11.43)	.200 (5.08)	WM1341-ND◆	2.65	21.23	176.88	707.51	15-91-2035
	4	.550 (13.97)	.300 (7.62)	WM1342-ND◆	3.27	26.12	217.70	870.78	15-91-2045
	5	.650 (16.51)	.400 (10.16)	WM1343-ND◆	3.53	28.23	235.26	941.03	15-91-2055
	6	.750 (19.05)	.500 (12.70)	WM1344-ND◆	3.59	28.74	239.53	958.11	15-91-2065
	7	.850 (21.59)	.600 (15.24)	WM1345-ND◆	3.66	29.31	244.28	977.10	15-91-2075-P
	8	.950 (24.13)	.700 (17.78)	WM1346-ND◆	3.73	29.83	248.59	994.34	15-91-2085
	9	1.050 (26.67)	.800 (20.32)	WM1347-ND◆	3.79	30.34	252.86	1011.43	15-91-2095
	10	1.150 (29.21)	.900 (22.86)	WM1348-ND◆	3.89	31.08	259.03	1036.11	15-91-2105
	11	1.250 (31.75)	1.00 (25.40)	WM1349-ND	4.56	36.51	304.28	1217.10	15-91-2115
	12	1.350 (34.29)	1.10 (27.94)	WM1350-ND◆	5.29	42.34	352.85	1411.38	15-91-2125
Right Angle Tin — Through Hole — RoHS Compliant									
5	2	.100 (2.54)	.210 (5.33)	WM4164-ND	.96	7.71	64.24	256.94	70555-0001
	3	.200 (5.08)	.320 (8.13)	WM4165-ND	1.03	8.22	68.48	273.90	70555-0002
	4	.300 (7.62)	.420 (10.67)	WM4166-ND	1.10	8.83	73.60	294.39	70555-0003
	5	.400 (10.16)	.520 (13.21)	WM4167-ND	1.16	9.29	77.42	309.66	70555-0004
	6	.500 (12.70)	.620 (15.75)	WM4168-ND	1.23	9.85	82.12	328.46	70555-0005
	7	.600 (15.24)	.720 (18.29)	WM4169-ND	1.30	10.36	86.36	345.42	70555-0006
	8	.700 (17.78)	.820 (20.83)	WM4170-ND	1.35	10.77	89.75	358.99	70555-0007
	9	.800 (20.32)	.920 (23.37)	WM4171-ND	1.41	11.28	94.02	376.09	70555-0008
	10	.900 (22.86)	1.020 (25.91)	WM4172-ND	1.49	11.89	99.11	396.44	70555-0009
	11	1.000 (25.40)	1.120 (28.45)	WM4173-ND	1.54	12.36	102.96	411.84	70555-0010
	12	1.100 (27.94)	1.220 (30.99)	WM4174-ND	1.60	12.81	106.78	427.11	70555-0011
Right Angle 15μ” Gold — Through Hole — RoHS Compliant									
5	2	.100 (2.54)	.210 (5.33)	WM4175-ND	1.06	8.48	70.63	282.52	70555-0036
	3	.200 (5.08)	.320 (8.13)	WM4176-ND	1.17	9.34	77.84	311.35	70555-0037
	4	.300 (7.62)	.420 (10.67)	WM4177-ND	1.30	10.41	86.78	347.12	70555-0038
	5	.400 (10.16)	.520 (13.21)	WM4178-ND	1.40	11.23	93.60	374.39	70555-0039
	6	.500 (12.70)	.620 (15.75)	WM4179-ND	1.45	11.59	96.57	386.26	70555-0040
	7	.600 (15.24)	.720 (18.29)	WM4180-ND	1.63	13.02	108.47	433.89	70555-0041
	8	.700 (17.78)	.820 (20.83)	WM4181-ND	1.74	13.94	116.14	464.57	70555-0042
	9	.800 (20.32)	.920 (23.37)	WM4182-ND	1.86	14.85	123.77	495.09	70555-0043
	10	.900 (22.86)	1.020 (25.91)	WM4183-ND	1.97	15.77	131.44	525.76	70555-0044
	11	1.000 (25.40)	1.120 (28.45)	WM4184-ND	2.07	16.59	138.26	553.03	70555-0045
	12	1.100 (27.94)	1.220 (30.99)	WM4185-ND	2.20	17.56	146.35	585.41	70555-0046
15μ” Gold									
6	3	.320 (8.13)	.200 (5.08)	WM7203-ND◆	1.92	15.37	128.08	512.33	74099-1003
	4	.420 (10.67)	.300 (7.62)	WM7204-ND◆	2.05	16.43	136.92	547.67	74099-1004
	5	.520 (13.21)	.400 (10.16)	WM7205-ND◆	3.07	24.59	204.93	819.73	74099-1005
	6	.620 (15.75)	.500 (12.70)	WM7206-ND◆	2.19	17.49	145.75	583.00	74099-1006
	7	.720 (18.29)	.600 (15.24)	WM7207-ND◆	2.25	18.02	150.17	600.67	74099-1007
	8	.820 (20.83)	.700 (17.78)	WM7208-ND◆	2.39	19.08	159.00	636.00	74099-1008
	9	.920 (23.37)	.800 (20.32)	WM7209-ND	2.52	20.14	167.83	671.33	74099-1009
	10	1.020 (25.91)	.900 (22.86)	WM7210-ND	2.68	21.44	178.65	714.58	74099-1010
	11	1.120 (28.45)	1.000 (25.40)	WM7211-ND◆	3.29	26.29	219.10	876.41	74099-1011
	12	1.220 (30.99)	1.100 (27.94)	WM7212-ND◆	3.86	30.91	257.58	1030.32	74099-1012
Vertical Tin — RoHS Compliant									
7	2	.100 (2.54)	.210 (5.33)	WM4133-ND	.93	7.45	62.12	248.46	70545-0001
	3	.200 (5.08)	.320 (8.13)	WM4134-ND	1.03	8.22	68.48	273.90	70545-0002
	4	.300 (7.62)	.420 (10.67)	WM4186-ND	.93	7.45	62.12	248.46	70545-0003
	5	.400 (10.16)	.520 (13.21)	WM4135-ND	1.15	9.19	76.57	306.27	70545-0004
	6	.500 (12.70)	.620 (15.75)	WM4136-ND	1.12	8.93	74.45	297.79	70545-0005
	7	.600 (15.24)	.720 (18.29)	WM4137-ND	1.30	10.36	86.36	345.42	70545-0006
	8	.700 (17.78)	.820 (20.83)	WM4138-ND	1.35	10.77	89.75	358.99	70545-0007
	9	.800 (20.32)	.920 (23.37)	WM4139-ND	1.41	11.28	94.02	376.09	70545-0008
	10	.900 (22.86)	1.020 (25.91)	WM4187-ND	1.49	11.89	99.11	396.44	70545-0009
	11	1.000 (25.40)	1.120 (28.45)	WM4140-ND	1.54	12.36	102.96	411.84	70545-0010
	12	1.100 (27.94)	1.220 (30.99)	WM4141-ND	1.60	12.81	106.78	427.11	70545-0011
Vertical 15μ” Gold — RoHS Compliant									
7	2	.100 (2.54)	.210 (5.33)	WM4142-ND	.89	7.15	59.57	238.28	70545-0036
	3	.200 (5.08)	.320 (8.13)	WM4143-ND	1.06	8.48	70.63	282.52	70545-0037
	4	.300 (7.62)	.420 (10.67)	WM4144-ND	1.08	8.68	72.33	289.31	70545-0038
	5	.400 (10.16)	.520 (13.21)	WM4145-ND	1.24	9.96	82.96	331.85	70545-0039
	6	.500 (12.70)	.620 (15.75)	WM4146-ND	1.21	9.70	80.84	323.37	70545-0040
	7	.600 (15.24)	.720 (18.29)	WM4147-ND	1.46	11.72	97.63	390.50	70545-0041
	8	.700 (17.78)	.820 (20.83)	WM4148-ND	1.74	13.94	116.14	464.57	70545-0042
	9	.800 (20.32)	.920 (23.37)	WM4149-ND	1.68	13.47	112.29	449.15	70545-0043
	10	.900 (22.86)	1.020 (25.91)	WM4150-ND	1.85	14.81	123.39	493.54	70545-0044
	11	1.000 (25.40)	1.120 (28.45)	WM4151-ND	2.07	16.59	138.26	553.03	70545-0045
	12	1.100 (27.94)	1.220 (30.99)	WM4152-ND	2.20	17.56	146.35	585.41	70545-0046

◆ ***RoHS Compliant***

C-Grid® .100” Crimp Connector Housings

Fig. 1

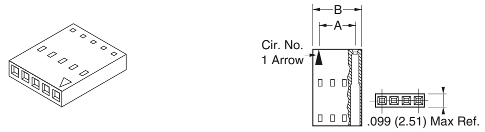

Fig. 2

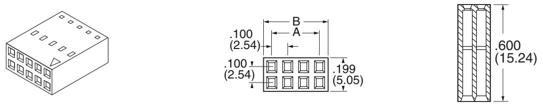

Fig.	Cir- cuits	Dimension – Inch (mm)		Digi-Key Part No.	Pricing				Molex Part No.
		A	B		1	10	100	500	
1	2	.100 (2.54)	.199 (5.05)	WM2800-ND	.55	4.84	32.28	129.10	50-57-9002
	3	.200 (5.08)	.299 (7.59)	WM2801-ND	.71	6.28	41.85	167.38	50-57-9003
	4	.300 (7.62)	.399 (10.13)	WM2802-ND	.74	6.54	43.63	174.51	50-57-9004
	5	.400 (10.16)	.499 (12.67)	WM2803-ND	.77	6.80	45.37	181.46	50-57-9005
	6	.500 (12.70)	.599 (15.21)	WM2804-ND	.82	7.26	48.41	193.65	50-57-9006
	7	.600 (15.24)	.699 (17.75)	WM2805-ND	.87	7.72	51.46	205.83	50-57-9007
	8	.700 (17.78)	.799 (20.29)	WM2806-ND	.93	8.18	54.50	218.01	50-57-9008
	9	.800 (20.32)	.899 (22.83)	WM2807-ND	.99	8.76	58.42	233.68	50-57-9009
	10	.900 (22.86)	.999 (25.37)	WM2808-ND	1.05	9.23	61.51	246.02	50-57-9010
2	4	.100 (2.54)	.199 (5.05)	WM2519-ND	2.22	19.61	130.72	522.88	22-55-2041
	6	.200 (5.08)	.299 (7.59)	WM2520-ND	1.91	16.84	112.29	449.15	22-55-2061
	8	.300 (7.62)	.399 (10.13)	WM2521-ND	2.44	21.56	143.73	574.93	22-55-2081
	10	.400 (10.16)	.499 (12.67)	WM2522-ND	2.56	22.57	150.46	601.83	22-55-2101

Fig.	Cir- cuits	Dimension – Inch (mm)		Digi-Key Part No.	Pricing				Molex Part No.
		A	B		1	10	100	500	
2	12	.500 (12.70)	.599 (15.21)	WM2523-ND	2.66	23.51	156.75	626.98	22-55-2121
	14	.600 (15.24)	.699 (17.75)	WM2524-ND	2.78	24.53	163.51	654.03	22-55-2141
	16	.700 (17.78)	.799 (20.29)	WM2525-ND	2.88	25.40	169.33	677.30	22-55-2161
	18	.800 (20.32)	.899 (22.83)	WM2526-ND	2.99	26.34	175.61	702.45	22-55-2181
	20	.900 (22.86)	.999 (25.37)	WM2527-ND	3.10	27.36	182.38	729.50	22-55-2201
	22	1.000 (25.40)	1.099 (27.91)	WM2528-ND	3.21	28.29	188.63	754.50	22-55-2221
	24	1.100 (27.95)	1.199 (30.45)	WM2529-ND	3.32	29.31	195.39	781.55	22-55-2241
	30	1.400 (35.56)	1.499 (38.07)	WM2530-ND	3.61	31.87	212.44	849.74	22-55-2301
	34	1.600 (40.64)	1.699 (43.15)	WM2542-ND	3.45	30.45	203.03	812.10	22-55-2341
	40	1.900 (48.26)	1.999 (50.77)	WM2531-ND	4.19	36.99	246.57	986.28	22-55-2401
	50	2.400 (60.96)	2.499 (63.47)	WM2532-ND	4.73	41.77	278.49	1113.95	22-55-2501
Polarization Key, Black				WM1033-ND	.44	3.89	25.94	103.74	15-04-0292

C-Grid® Box Crimp Terminals

Terminal Material: Phosphor Bronze

Current Rating:
3.0 Amps (24AWG) 30°C Rise Over Ambient

UL Listed and CSA Certified

Fig. 1

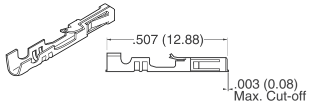

Fig. 2

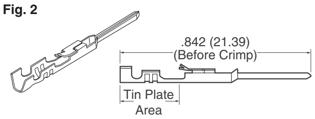

Fig. 3

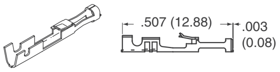

Fig.	Wire Range	Insul. Dia. Inch (mm)	Plating	Digi-Key Part No.	Pricing				Molex Part No.
					10	100	500	1,000	
1	22-24	.064 (1.63)	Tin‡	WM2510-ND	.85	7.11	28.42	47.18	16-02-0102
				WM2510CT-ND▲	—	8.54	37.35	64.02	16-02-0086
				WM2510TR-ND◊	860.00/20,000				16-02-0086
	22-24	.064 (1.63)	Gold†	WM2512-ND	1.33	11.10	44.39	73.69	16-02-0103
				WM2512CT-ND▲	—	8.59	34.34	57.00	16-02-0087
				WM2512TR-ND◊	1380.00/20,000				16-02-0087
	22-24	.064 (1.63)	Gold✻	WM2564-ND	1.52	12.69	50.74	84.23	16-02-0104
				WM2564CT-ND▲	—	11.06	44.23	73.42	16-02-0088
				WM2564TR-ND◊	1760.00/20,000				16-02-0088
	24-30	.060 (1.52)	Tin‡	WM2562-ND	.85	7.11	28.42	47.18	16-02-0096
				WM2562CT-ND▲	—	4.91	19.64	32.60	16-02-0069
				WM2562TR-ND◊	780.00/20,000				16-02-0069
	24-30	.060 (1.52)	Gold†	WM2568-ND	1.33	11.10	44.39	73.69	16-02-0097
				WM2568CT-ND▲	—	13.18	52.71	87.50	16-02-0119
				WM2568TR-ND◊	2100.00/20,000				16-02-0119
2	22-24	.064 (1.63)	Tin‡	WM2517-ND	.85	7.11	28.42	47.18	16-02-0114
				WM2517CT-ND▲	—	5.34	21.34	35.42	16-02-0107
				WM2517TR-ND◊	860.00/20,000				16-02-0107
	22-24	.064 (1.63)	Gold†	WM2515-ND	1.44	12.02	48.08	79.81	16-02-0115
				WM2515CT-ND▲	—	8.20	32.79	54.43	16-02-0081
				WM2515TR-ND◊	1320.00/20,000				16-02-0081
	22-24	.064 (1.63)	Gold✻	WM2567-ND	1.81	15.12	60.49	100.41	16-02-0117
				WM2567CT-ND▲	—	12.26	49.05	81.42	16-02-0116
				WM2567TR-ND◊	1960.00/20,000				16-02-0116
	24-30	.060 (1.52)	Tin‡	WM2565-ND	.85	7.11	28.42	47.18	16-02-0108
				WM2565CT-ND▲	—	5.34	21.34	35.42	16-02-0105
				WM2565TR-ND◊	860.00/20,000				16-02-0105
	24-30	.060 (1.52)	Gold†	WM2563CT-ND▲	1.47	9.82	39.29	65.22	16-02-0077
				WM2563TR-ND◊	1580.00/20,000				16-02-0077

Fig.	Wire Range	Insul. Dia. Inch (mm)	Plating	Digi-Key Part No.	Pricing				Molex Part No.
					10	100	500	1,000	
2	24-30	.060 (1.52)	Gold†	WM2516-ND	1.44	12.02	48.08	79.81	16-02-0109
			Gold✻	WM2566-ND	1.81	15.12	60.49	100.41	16-02-0110
3	22-24	.064 (1.63)	Tin‡	WM2569-NDΔ	1.22	10.18	40.71	67.58	16-02-1114
				WM2569CT-NDΔ▲	—	7.67	30.67	50.91	16-02-1110
				WM2569TR-ND◊	1220.00/20,000				16-02-1110
	22-24	.064 (1.63)	Gold†	WM2573CT-NDΔ▲	—	13.78	55.12	91.50	16-02-1124
				WM2573TR-NDΔ◊	2100.00/20,000				16-02-1124
				WM2573-NDΔ	2.00	16.63	66.52	110.42	16-02-1125
	22-24	.064 (1.63)	Gold✻	WM2570CT-NDΔ▲	—	16.18	64.73	107.45	16-02-1111
				WM2570TR-NDΔ◊	2580.00/20,000				16-02-1111
				WM2570-NDΔ	2.20	18.30	73.21	121.53	16-02-1115
	24-30	.060 (1.52)	Tin‡	WM2571-NDΔ	1.22	10.18	40.71	67.58	16-02-1116
				WM2571CT-NDΔ▲	—	7.67	30.67	50.91	16-02-1112
				WM2571TR-NDΔ◊	1220.00/20,000				16-02-1112
	24-30	.060 (1.52)	Gold†	WM2555-NDΔ	2.00	16.63	66.52	110.42	16-02-1109
	24-30	.060 (1.52)	Gold✻	WM2572CT-NDΔ▲	—	16.18	64.73	107.45	16-02-1113
				WM2572TR-NDΔ◊	2580.00/20,000				16-02-1113
				WM2572-NDΔ	2.20	18.30	73.21	121.53	16-02-1117
Universal Crimp Tool (Molex)				WM9999-ND	50.75/1				63811-1000
C-Grid Hand Crimper 22-24/32-36AWG				WM9017-ND ***NEW!***	321.98/1				63811-8700
C-Grid Hand Crimper 24-30AWG				WM9919-ND	228.96/1				11-01-0209
Insertion Tool				WM9911-ND	20.14/1				11-02-0022
Extraction Tool				WM1032-ND	16.92/1				11-03-0036
Manual Wire Stripper (Molex)				WM9969-ND	84.59/1				63817-0000

Δ High pressure type for low pin count ‡ 150μ” tin/lead over 50μ” nickel overall
† 15μ” minimum gold in select area over 50μ” minimum nickel overall with 75μ” minimum tin/lead in select area
✻ 30μ” minimum gold in select area over 50μ” minimum nickel overall with 75μ” minimum tin/lead in select area
▲ Cut Tape ◊ Tape and Reel

C-Grid III™ 2.54mm (.100”) Pitch

Modular Crimp Connector Housing

Specifications:

Electrical: • Voltage: 350V • Insulation Resistance: 1,000MΩ minimum • Current Rating: 3.0A • Contact Resistance: 20mΩ maximum

Physical: • Housing: Black Polyphenylene Oxide • UL94V-1 • Operating Temperature: -55°C ~ 105°C

Note: C-Grid III does not mate to C-Grid®

Fig. 1 – Single Row

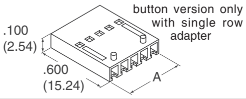
Polarization: Use 2 button version only with single row adapter
.100
(2.54)
.600
(15.24)
A

Fig. 2 – Single Row

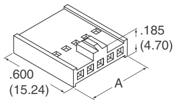

Fig. 3 – Dual Row

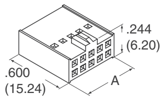

Fig. 4 – Dual Row

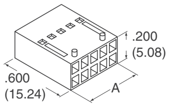

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing				Molex Part No.
				1	10	100	500	
1	2	.200 (5.08)	WM8000-ND	.24	2.13	14.17	56.68	90123-0102
	3	.300 (7.62)	WM8001-ND	.35	3.10	20.67	82.68	90123-0103
	4	.400 (10.16)	WM8002-ND	.46	4.07	27.14	108.54	90123-0104
	5	.500 (12.70)	WM8003-ND	.57	5.05	33.64	134.55	90123-0105
	6	.600 (15.24)	WM8004-ND	.68	5.96	39.72	158.86	90123-0106
	7	.700 (17.78)	WM8005-ND	.41	3.65	24.35	97.38	90123-0107
	8	.800 (20.32)	WM8006-ND	.90	7.92	52.79	211.15	90123-0108
	9	.900 (22.86)	WM8007-ND	.93	8.20	54.70	218.78	90123-0109
	10	1.000 (25.40)	WM8008-ND	1.06	9.36	62.40	249.60	90123-0110
	12	1.200 (30.48)	WM8009-ND	1.25	11.00	73.32	293.27	90123-0112
	13	1.300 (33.02)	WM8010-ND	1.37	12.12	80.77	323.09	90123-0113

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing				Molex Part No.
				1	10	100	500	
1	15	1.500 (38.10)	WM8011-ND	1.55	13.67	91.16	364.64	90123-0115
	18	1.800 (45.72)	WM8012-ND	1.89	16.67	111.12	444.49	90123-0118
	19	1.900 (48.26)	WM8013-ND	1.99	17.60	117.31	469.23	90123-0119
	20	2.000 (50.80)	WM8014-ND	2.07	18.23	121.55	486.19	90123-0120
	24	2.400 (60.96)	WM8015-ND	2.48	21.88	145.86	583.42	90123-0124
	25	2.500 (63.50)	WM8016-ND	2.58	22.79	151.93	607.73	90123-0125
2	2	.242 (6.14)	WM8017-ND	.25	2.25	14.98	59.92	90156-0142
	3	.342 (8.68)	WM8018-ND	.33	2.91	19.43	77.73	90156-0143
	4	.442 (11.22)	WM8019-ND	.45	4.01	26.75	106.99	90156-0144
	5	.542 (13.76)	WM8020-ND	.54	4.74	31.59	126.35	90156-0145

(Continued)

C-Grid III™ 2.54mm (.100”) Pitch

Modular Crimp Connector Housing *(Cont.)*

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing				Molex Part No.
				1	10	100	500	
2	6	.642 (16.30)	WM8021-ND	.64	5.65	37.67	150.66	90156-0146
	7	.742 (18.84)	WM8022-ND	.74	6.56	43.74	174.97	90156-0147
	8	.842 (21.38)	WM8023-ND	.85	7.47	49.82	199.28	90156-0148
	9	.942 (23.92)	WM8024-ND	.93	8.20	54.70	218.78	90156-0149
	10	1.042 (26.46)	WM8025-ND	1.01	8.94	59.57	238.29	90156-0150
	12	1.242 (31.54)	WM8026-ND	1.20	10.57	70.49	281.96	90156-0152
	13	1.342 (34.08)	WM8027-ND	1.29	11.36	75.76	303.02	90156-0153
	14	1.442 (36.62)	WM8028-ND	1.38	12.15	81.02	324.07	90156-0154
	15	1.542 (39.16)	WM8029-ND	1.47	12.94	86.29	345.14	90156-0155
	16	1.642 (41.70)	WM8030-ND	1.64	14.46	96.43	385.70	90156-0156
	18	1.842 (46.78)	WM8031-ND	1.76	15.50	103.32	413.26	90156-0158
	20	2.042 (51.86)	WM8032-ND	1.94	17.13	114.20	456.79	90156-0160
	22	2.242 (56.94)	WM8033-ND	2.11	18.59	123.95	495.79	90156-0162
	25	2.542 (64.56)	WM8034-ND	2.39	21.13	140.84	563.36	90156-0165
3	6	.306 (7.77)	WM8035-ND	.66	5.84	38.90	155.61	90142-0006
	8	.406 (10.31)	WM8036-ND	.88	7.78	51.87	207.47	90142-0008
	10	.506 (12.85)	WM8037-ND	1.09	9.60	64.03	256.10	90142-0010
	12	.606 (15.39)	WM8038-ND	1.27	11.24	74.94	299.77	90142-0012
	14	.706 (17.93)	WM8039-ND	1.36	12.03	80.21	320.83	90142-0014
	16	.806 (20.47)	WM8040-ND	1.67	14.77	98.44	393.76	90142-0016
	18	.906 (23.01)	WM8041-ND	1.74	15.31	102.08	408.31	90142-0018
	20	1.006 (25.55)	WM8042-ND	1.81	15.98	106.57	426.26	90142-0020
	22	1.106 (28.09)	WM8043-ND	1.87	16.53	110.21	440.82	90142-0022
	24	1.206 (30.63)	WM8044-ND	2.28	20.11	134.09	536.36	90142-0024
	26	1.306 (33.17)	WM8045-ND	2.34	20.66	137.73	550.91	90142-0026
	30	1.506 (38.25)	WM8046-ND	2.67	23.52	156.78	627.10	90142-0030
3	34	1.706 (43.33)	WM8047-ND	2.98	26.25	175.01	700.02	90142-0034
	36	1.806 (45.87)	WM8048-ND	3.15	27.77	185.15	740.59	90142-0036
	38	1.906 (48.41)	WM8049-ND	3.31	29.23	194.86	779.45	90142-0038
	40	2.006 (50.95)	WM8050-ND	3.73	32.94	219.60	878.39	90142-0040
	44	2.206 (56.03)	WM8051-ND	4.15	36.58	243.84	975.34	90142-0044
	50	2.506 (63.65)	WM8052-ND	4.75	41.93	279.56	1118.23	90142-0050
	54	2.706 (68.73)	WM8053-ND	4.96	43.76	291.71	1166.85	90142-0054
	60	3.006 (76.35)	WM8054-ND	5.48	48.37	322.49	1289.95	90142-0060
4	4	.200 (5.08)	WM8056-ND	.41	3.65	24.31	97.23	90143-0004
	6	.300 (7.62)	WM8057-ND	.60	5.29	35.26	141.05	90143-0006
	8	.400 (10.16)	WM8058-ND	.80	7.05	46.99	187.97	90143-0008
	10	.500 (12.70)	WM8059-ND	.99	8.75	58.34	233.34	90143-0010
	12	.600 (15.24)	WM8060-ND	1.16	10.27	68.48	273.90	90143-0012
	14	.700 (17.78)	WM8061-ND	1.35	11.91	79.40	317.58	90143-0014
	16	.800 (20.32)	WM8062-ND	1.53	13.49	89.96	359.84	90143-0016
	18	.900 (22.86)	WM8063-ND	1.81	15.98	106.57	426.26	90143-0018
	20	1.000 (25.40)	WM8064-ND	2.09	18.41	122.75	490.99	90143-0020
	26	1.300 (33.02)	WM8065-ND	2.69	23.70	158.01	632.05	90143-0026
	34	1.700 (43.18)	WM8066-ND	3.06	26.98	179.88	719.53	90143-0034
	36	1.800 (45.72)	WM8067-ND	3.24	28.57	190.45	761.79	90143-0036
	40	2.000 (50.80)	WM8068-ND	3.58	31.60	210.66	842.63	90143-0040
	50	2.500 (63.50)	WM8069-ND	4.48	39.50	263.34	1053.35	90143-0050
	60	3.000 (76.20)	WM8070-ND	5.37	47.40	316.02	1264.08	90143-0060
	64	3.200 (81.28)	WM8071-ND	5.52	48.68	324.50	1298.00	90143-0064

Female Crimp Terminals

Specifications:

Electrical: • Voltage: 350V • Current Rating: 3.0A • Contact Resistance: 20mΩ maximum

Physical: • Contact: Copper alloy • Wire Insulation Diameter: 1.70mm (.067”) maximum

† Plating A: 100μm (39μ”) minimum Hot Tin dip

‡ Plating E: 0.38μm (15μ”) selective Gold over Nickel and 4μm (160μ”) Tin/Lead over Nickel

Wire Range	Insulation Diameter Range Inch (mm)	Plating Option	Digi-Key Part No.	Pricing			Molex Part No.
				10	100	500	
22-24	.040/.058 (1.02/1.47)	A†	WM2558-ND	1.36	11.34	45.37	90119-2109
		E‡	WM2559-ND	2.09	17.42	69.67	90119-2110
26-28	.030/.048 (0.76/1.22)	A†	WM2560-ND	1.36	11.34	45.37	90119-2120
		E‡	WM2561-ND	2.09	17.42	69.67	90119-2121
Hand Crimp Tool for 22-28 AWG			WM8286-ND	305.28/1			69008-0985

Headers

Specifications:

Electrical: • Voltage: 350V • Current Rating: 3.0A • Contact Resistance: 20mΩ maximum • Insulation Resistance: 5,000 MΩ minimum

Physical: • Housing: Black glass-filled polyester • UL94V-0 • Operating Temperature: -55°C ~ 125°C • Contact: Copper Alloy, 0.64mm (.025”) square pin

Note: C-Grid III does not mate to C-Grid

Fig. 1 – Single Row, Vertical

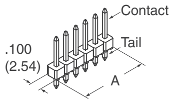

Fig. 2 – Single Row, Right Angle

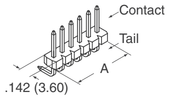

Fig. 3 – Dual Row, Vertical

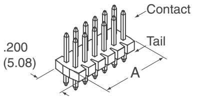

Fig. 4 – Dual Row, Right Angle

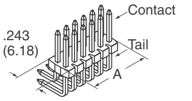

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing				Molex Part No.
				1	10	100	500	
Tin Contacts with Tin Tails								
1	2	.200 (5.08)	WM8072-ND	.21	1.82	12.16	48.62	90120-0122
	3	.300 (7.62)	WM8073-ND	.31	2.73	18.23	72.93	90120-0123
	4	.400 (10.16)	WM8074-ND	.41	3.65	24.31	97.23	90120-0124
	5	.500 (12.70)	WM8075-ND	.52	4.56	30.39	121.55	90120-0125
	6	.600 (15.24)	WM8076-ND	.62	5.47	36.47	145.86	90120-0126
	7	.700 (17.78)	WM8077-ND	.72	6.38	42.54	170.16	90120-0127
	8	.800 (20.32)	WM8078-ND	.82	7.23	48.23	192.92	90120-0128
	9	.900 (22.86)	WM8079-ND	.92	8.15	54.31	217.23	90120-0129
	10	1.000 (25.40)	WM8080-ND	1.03	9.05	60.35	241.39	90120-0130
	11	1.100 (27.94)	WM8081-ND	.79	6.99	46.61	186.42	90120-0131
	12	1.200 (30.48)	WM8082-ND	.68	6.04	40.28	161.12	90120-0132
	40	4.000 (101.60)	WM8083-ND	4.11	36.28	241.86	967.43	90120-0160
2	2	.200 (5.08)	WM8096-ND	.23	2.04	13.57	54.27	90121-0122
	3	.300 (7.62)	WM8097-ND	.34	3.04	20.25	80.98	90121-0123
	4	.400 (10.16)	WM8098-ND	.46	4.07	27.14	108.54	90121-0124
	5	.500 (12.70)	WM8099-ND	.57	5.05	33.64	134.55	90121-0125
	6	.600 (15.24)	WM8100-ND	.66	5.84	38.90	155.61	90121-0126
	7	.700 (17.78)	WM8101-ND	.76	6.68	44.56	178.22	90121-0127
	8	.800 (20.32)	WM8102-ND	.85	7.47	49.82	199.28	90121-0128
	9	.900 (22.86)	WM8103-ND	.90	7.96	53.07	212.29	90121-0129
	10	1.000 (25.40)	WM8104-ND	1.03	9.05	60.35	241.39	90121-0130
	11	1.100 (27.94)	WM8105-ND	1.13	9.96	66.43	265.71	90121-0131
	12	1.200 (30.48)	WM8106-ND	1.23	10.88	72.51	290.02	90121-0132
	40	4.000 (101.60)	WM8107-ND	4.55	40.17	267.79	1071.16	90121-0160
3	4	.200 (5.08)	WM8120-ND	.41	3.65	24.31	97.23	90131-0122
	6	.300 (7.62)	WM8121-ND	.43	3.77	25.12	100.49	90131-0123
	8	.400 (10.16)	WM8122-ND	.82	7.23	48.23	192.92	90131-0124
	10	.500 (12.70)	WM8123-ND	1.03	9.05	60.35	241.39	90131-0125
	12	.600 (15.24)	WM8124-ND	1.23	10.88	72.51	290.02	90131-0126
	14	.700 (17.78)	WM8125-ND	1.44	12.70	84.66	338.64	90131-0127
	16	.800 (20.32)	WM8126-ND	1.65	14.52	96.81	387.25	90131-0128
	18	.900 (22.86)	WM8127-ND	1.86	16.41	109.39	437.57	90131-0129
	20	1.000 (25.40)	WM8128-ND	2.07	18.23	121.55	486.19	90131-0130
	22	1.100 (27.94)	WM8129-ND	2.27	19.99	133.28	533.11	90131-0131
	24	1.200 (30.48)	WM8130-ND	2.47	21.76	145.04	580.17	90131-0132
	26	1.300 (33.02)	WM8131-ND	2.67	23.58	157.20	628.79	90131-0133
	28	1.400 (35.56)	WM8132-ND	2.88	25.40	169.35	677.41	90131-0134
3	30	1.500 (38.10)	WM8133-ND	3.09	27.23	181.51	726.03	90131-0135
	40	2.000 (50.80)	WM8134-ND	4.11	36.28	241.86	967.43	90131-0140
	50	2.500 (63.50)	WM8135-ND	5.14	45.34	302.24	1208.96	90131-0145
	60	3.000 (76.20)	WM8136-ND	6.17	54.45	363.02	1452.06	90131-0150
	80	4.000 (101.60)	WM8137-ND	8.22	72.56	483.75	1935.00	90131-0160
4	4	.200 (5.08)	WM8157-ND	.85	7.47	49.82	199.28	90122-0122
	6	.300 (7.62)	WM8158-ND	1.06	9.39	62.61	250.45	90122-0123
	8	.400 (10.16)	WM8159-ND	1.14	10.09	67.24	268.95	90122-0124
	10	.500 (12.70)	WM8160-ND	1.29	11.36	75.76	303.02	90122-0125
	12	.600 (15.24)	WM8161-ND	1.49	13.19	87.91	351.63	90122-0126
	14	.700 (17.78)	WM8162-ND	1.66	14.64	97.63	390.50	90122-0127
	16	.800 (20.32)	WM8163-ND	1.84	16.22	108.16	432.62	90122-0128
	18	.900 (22.86)	WM8164-ND	2.02	17.81	118.72	474.88	90122-0129
	20	1.000 (25.40)	WM8165-ND	2.18	19.27	128.44	513.75	90122-0130
	24	1.200 (30.48)	WM8166-ND	2.51	22.18	147.87	591.48	90122-0132
	26	1.300 (33.02)	WM8167-ND	2.80	24.67	164.48	657.91	90122-0133
	34	1.700 (43.18)	WM8169-ND	3.54	31.24	208.26	833.02	90122-0137
	36	1.800 (45.72)	WM8170-ND	3.62	31.91	212.71	850.83	90122-0138
	40	2.000 (50.80)	WM8171-ND	4.30	37.92	252.81	1011.24	90122-0140
	44	2.200 (55.88)	WM8172-ND	4.51	39.82	265.46	1061.83	90122-0142
	50	2.500 (63.50)	WM8173-ND	5.99	52.87	352.49	1409.94	90122-0145
	80	4.000 (101.60)	WM8174-ND	7.41	65.39	435.91	1743.63	90122-0160
Gold Contacts with Tin Tails								
1	2	.200 (5.08)	WM8084-ND	.32	2.86	19.05	76.18	90120-0762
	3	.300 (7.62)	WM8085-ND	.49	4.31	28.76	115.04	90120-0763
	4	.400 (10.16)	WM8086-ND	.65	5.77	38.48	153.91	90120-0764
	5	.500 (12.70)	WM8087-ND	.71	6.26	41.73	166.92	90120-0765
	6	.600 (15.24)	WM8088-ND	.98	8.63	57.52	230.09	90120-0766
	7	.700 (17.78)	WM8089-ND	1.14	10.09	67.24	268.95	90120-0767
	8	.800 (20.32)	WM8090-ND	1.31	11.55	76.99	307.96	90120-0768
	9	.900 (22.86)	WM8091-ND	1.47	13.01	86.71	346.83	90120-0769
	10	1.000 (25.40)	WM8092-ND	1.63	14.40	96.00	384.01	90120-0770
	11	1.100 (27.94)	WM8093-ND	1.80	15.84	105.61	422.44	90120-0771
	12	1.200 (30.48)	WM8094-ND	1.96	17.26	115.05	460.18	90120-0772
	40	4.000 (101.60)	WM8095-ND	6.52	57.55	383.65	1534.59	90120-0800

(Continued)

C-Grid III™ 2.54mm (.100”) Pitch

Headers *(Cont.)*

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
2	2	.200 (5.08)	WM8108-ND	.32	2.86	19.05	76.18	90121-0762
	3	.300 (7.62)	WM8109-ND	.49	4.31	28.76	115.04	90121-0763
	4	.400 (10.16)	WM8110-ND	.71	6.26	41.73	166.92	90121-0764
	5	.500 (12.70)	WM8111-ND	.89	7.84	52.26	209.03	90121-0765
	6	.600 (15.24)	WM8112-ND	1.07	9.42	62.79	251.15	90121-0766
	7	.700 (17.78)	WM8113-ND	1.25	11.00	73.32	293.27	90121-0767
	8	.800 (20.32)	WM8114-ND	1.42	12.52	83.46	333.83	90121-0768
	9	.900 (22.86)	WM8115-ND	1.59	14.04	93.60	374.39	90121-0769
	10	1.000 (25.40)	WM8116-ND	1.63	14.40	96.00	384.01	90121-0770
	11	1.100 (27.94)	WM8117-ND	1.79	15.80	105.33	421.32	90121-0771
	12	1.200 (30.48)	WM8118-ND	2.13	18.78	125.19	500.74	90121-0772
	40	4.000 (101.60)	WM8119-ND	7.03	62.05	413.65	1654.59	90121-0800
3	4	.200 (5.08)	WM8138-ND	.65	5.77	38.48	153.91	90131-0762
	6	.300 (7.62)	WM8139-ND	.98	8.63	57.52	230.09	90131-0763
	8	.400 (10.16)	WM8140-ND	1.31	11.55	76.99	307.96	90131-0764
	10	.500 (12.70)	WM8141-ND	1.63	14.40	96.00	384.01	90131-0765
	12	.600 (15.24)	WM8142-ND	1.96	17.26	115.05	460.18	90131-0766
	14	.700 (17.78)	WM8143-ND	2.29	20.18	134.52	538.06	90131-0767
	16	.800 (20.32)	WM8144-ND	2.61	23.03	153.56	614.24	90131-0768
	18	.900 (22.86)	WM8145-ND	3.59	31.72	211.47	845.88	90131-0769
	20	1.000 (25.40)	WM8146-ND	3.26	28.81	192.04	768.15	90131-0770
	22	1.100 (27.94)	WM8147-ND	3.59	31.72	211.47	845.88	90131-0771
	24	1.200 (30.48)	WM8148-ND	3.92	34.58	230.52	922.06	90131-0772
	26	1.300 (33.02)	WM8149-ND	4.24	37.43	249.56	998.23	90131-0773
	28	1.400 (35.56)	WM8150-ND	4.63	40.84	272.24	1088.97	90131-0774
	30	1.500 (38.10)	WM8151-ND	4.92	43.45	289.66	1158.65	90131-0775

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
3	40	2.000 (50.80)	WM8152-ND	6.53	57.61	384.07	1536.29	90131-0780
	50	2.500 (63.50)	WM8153-ND	8.15	71.95	479.69	1918.74	90131-0785
	60	3.000 (76.20)	WM8154-ND	9.79	86.42	576.11	2304.44	90131-0790
	72	3.600 (91.44)	WM8155-ND	11.41	100.64	670.91	2683.63	90131-0796
	80	4.000 (101.60)	WM8156-ND	13.07	115.28	768.54	3074.14	90131-0800
4	4	.200 (5.08)	WM8175-ND	.91	8.02	53.50	213.98	90122-0762
	6	.300 (7.62)	WM8176-ND	1.58	13.92	92.79	371.14	90122-0763
	8	.400 (10.16)	WM8177-ND	1.82	16.04	106.96	427.82	90122-0764
	10	.500 (12.70)	WM8178-ND	2.05	18.05	120.31	481.24	90122-0765
	12	.600 (15.24)	WM8179-ND	2.40	21.15	140.98	563.92	90122-0766
	14	.700 (17.78)	WM8180-ND	2.83	24.98	166.53	666.10	90122-0767
	16	.800 (20.32)	WM8181-ND	2.97	26.19	174.62	698.47	90122-0768
	18	.900 (22.86)	WM8182-ND	3.27	28.86	192.43	769.70	90122-0769
	20	1.000 (25.40)	WM8183-ND	3.57	31.48	209.85	839.38	90122-0770
	22	1.100 (27.94)	WM8184-ND	3.90	34.46	229.70	918.81	90122-0771
	24	1.200 (30.48)	WM8185-ND	4.28	37.74	251.57	1006.29	90122-0772
	26	1.300 (33.02)	WM8186-ND	4.59	40.47	269.81	1079.22	90122-0773
	28	1.400 (35.56)	WM8187-ND	4.92	43.41	289.38	1157.52	90122-0774
	30	1.500 (38.10)	WM8188-ND	5.27	46.53	310.23	1240.91	90122-0775
	40	2.000 (50.80)	WM8189-ND	6.87	60.59	403.93	1615.73	90122-0780
	50	2.500 (63.50)	WM8190-ND	9.78	86.29	575.30	2301.19	90122-0785
	60	3.000 (76.20)	WM8191-ND	11.57	102.09	680.63	2722.50	90122-0790
	80	4.000 (101.60)	WM8192-ND	14.92	131.63	877.50	3510.01	90122-0800
Shunt								
2 Position, .100 Tin			WM1034-ND	.28	2.43	16.22	64.87	90059-0007

Shrouded Headers

Specifications:

Electrical: • Voltage: 350V • Current Rating: 3.0A • Contact Resistance: 20mΩ maximum • Insulation Resistance: 1,000 MΩ minimum
Physical: • Housing: Black glass-filled polyester • UL94V-0 • Operating Temperature: -55°C ~ 125°C • Contact: Copper Alloy, 0.64mm (.025”) square pins

Note: C-Grid III does not mate to C-Grid

Fig. 1 – Single Row, Right Angle

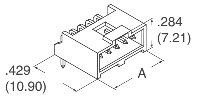

Fig. 2 – Single Row, Vertical

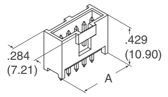

Fig. 3 – Dual Row, Vertical, Fully Loaded

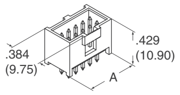

Fig. 4 – Dual Row, Right Angle Fully Loaded

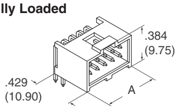

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
Tin Contacts with Tin Tails								
1	2	.347 (8.81)	WM8193-ND	.78	6.87	45.79	183.17	90136-2102
	3	.447 (11.35)	WM8194-ND	.88	7.78	51.87	207.47	90136-2103
	4	.547 (13.89)	WM8195-ND	1.14	10.03	66.85	267.41	90136-2104
	5	.647 (16.43)	WM8196-ND	1.36	11.97	79.82	319.27	90136-2105
	6	.747 (18.97)	WM8197-ND	1.54	13.61	90.74	362.94	90136-2106
	8	.947 (24.05)	WM8199-ND	2.07	18.29	121.94	487.74	90136-2108
	9	1.047 (26.59)	WM8200-ND	.87	7.66	51.06	204.23	90136-2109
	10	1.147 (29.13)	WM8201-ND	.96	8.51	56.71	226.84	90136-2110
	12	1.347 (34.21)	WM8202-ND	1.16	10.21	68.05	272.21	90136-2112
2	2	.347 (8.81)	WM8213-ND	.71	6.26	41.73	166.92	90136-1102
	3	.447 (11.35)	WM8214-ND	.73	6.44	42.93	171.72	90136-1103
	4	.547 (13.89)	WM8215-ND	1.00	8.81	58.76	235.03	90136-1104
	5	.647 (16.43)	WM8216-ND	1.11	9.78	65.23	260.90	90136-1105
	6	.747 (18.97)	WM8217-ND	1.27	11.18	74.55	298.21	90136-1106
	7	.847 (21.51)	WM8218-ND	1.45	12.76	85.08	340.33	90136-1107
	8	.947 (24.05)	WM8219-ND	1.67	14.77	98.44	393.76	90136-1108
	9	1.047 (26.59)	WM8220-ND	1.88	16.59	110.59	442.37	90136-1109
	10	1.147 (29.13)	WM8221-ND	2.00	17.62	117.48	469.93	90136-1110
	12	1.347 (34.21)	WM8222-ND	2.28	20.14	134.27	537.07	90136-1112
3	6	.407 (10.34)	WM8233-ND	1.45	12.82	85.47	341.88	90130-1106
	8	.507 (12.88)	WM8234-ND	1.68	14.83	98.86	395.45	90130-1108
	10	.607 (15.42)	WM8235-ND	1.89	16.71	111.41	445.62	90130-1110
	12	.707 (17.96)	WM8236-ND	2.12	18.72	124.80	499.19	90130-1112
	14	.807 (20.50)	WM8237-ND	2.34	20.66	137.73	550.91	90130-1114
	16	.907 (23.04)	WM8238-ND	2.56	22.60	150.70	602.79	90130-1116
	18	1.007 (25.58)	WM8239-ND	3.11	27.41	182.71	730.84	90130-1118
	20	1.107 (28.12)	WM8240-ND	3.62	31.91	212.71	850.83	90130-1120
	24	1.307 (33.20)	WM8241-ND	4.15	36.59	243.91	975.62	90130-1124
	26	1.407 (35.74)	WM8242-ND	4.49	39.62	264.15	1056.61	90130-1126
	30	1.607 (40.82)	WM8243-ND	5.18	45.70	304.65	1218.58	90130-1130
	34	1.807 (45.90)	WM8244-ND	5.77	50.93	339.52	1358.07	90130-1134
	40	2.107 (53.52)	WM8245-ND	6.50	57.37	382.45	1529.79	90130-1140
	50	2.607 (66.22)	WM8246-ND	6.89	60.77	405.13	1620.53	90130-1150
4	6	.407 (10.34)	WM8261-ND	1.59	14.04	93.60	374.39	90130-3106
	8	.507 (12.88)	WM8262-ND	1.83	16.17	107.77	431.07	90130-3108
	10	.607 (15.42)	WM8263-ND	2.08	18.35	122.36	489.43	90130-3110
	12	.707 (17.96)	WM8264-ND	2.32	20.48	136.53	546.11	90130-3112
	14	.807 (20.50)	WM8265-ND	2.57	22.67	151.12	604.49	90130-3114
	16	.907 (23.04)	WM8266-ND	2.81	24.79	165.29	661.15	90130-3116
	18	1.007 (25.58)	WM8267-ND	3.42	30.20	201.37	805.46	90130-3118
	20	1.107 (28.12)	WM8268-ND	3.72	32.82	218.79	875.14	90130-3120
	24	1.307 (33.20)	WM8269-ND	4.56	40.23	268.22	1072.86	90130-3124
	26	1.407 (35.74)	WM8270-ND	4.94	43.57	290.48	1161.90	90130-3126
	30	1.607 (40.82)	WM8271-ND	5.70	50.32	335.46	1341.82	90130-3130
	34	1.807 (45.90)	WM8272-ND	6.49	57.25	381.64	1526.54	90130-3134
	40	2.107 (53.52)	WM8273-ND	7.90	69.71	464.71	1858.82	90130-3140

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
Gold Contacts with Tin Tails								
1	2	.347 (8.81)	WM8203-ND	.91	8.02	53.50	213.98	90136-2202
	3	.447 (11.35)	WM8204-ND	1.16	10.21	68.05	272.21	90136-2203
	4	.547 (13.89)	WM8205-ND	1.48	13.06	87.10	348.39	90136-2204
	5	.647 (16.43)	WM8206-ND	1.66	14.64	97.63	390.50	90136-2205
	6	.747 (18.97)	WM8207-ND	1.73	15.25	101.69	406.75	90136-2206
	7	.847 (21.51)	WM8208-ND	2.10	18.53	123.56	494.25	90136-2207
	8	.947 (24.05)	WM8209-ND	2.47	21.76	145.04	580.17	90136-2208
	9	1.047 (26.59)	WM8210-ND	2.79	24.61	164.09	656.35	90136-2209
	10	1.147 (29.13)	WM8211-ND	3.10	27.35	182.32	729.28	90136-2210
	12	1.347 (34.21)	WM8212-ND	3.72	32.80	218.64	874.57	90136-2212
2	2	.347 (8.81)	WM8223-ND	.81	7.17	47.81	191.22	90136-1202
	3	.447 (11.35)	WM8224-ND	1.37	12.09	80.63	322.53	90136-1203
	4	.547 (13.89)	WM8225-ND	1.51	13.31	88.72	354.89	90136-1204
	5	.647 (16.43)	WM8226-ND	1.56	13.73	91.55	366.20	90136-1205
	6	.747 (18.97)	WM8227-ND	1.61	14.22	94.80	379.19	90136-1206
	7	.847 (21.51)	WM8228-ND	1.66	14.64	97.63	390.50	90136-1207
	8	.947 (24.05)	WM8229-ND	2.39	21.09	140.59	562.36	90136-1208
	9	1.047 (26.59)	WM8230-ND	2.53	22.37	149.11	596.43	90136-1209
	10	1.147 (29.13)	WM8231-ND	2.69	23.70	158.01	632.05	90136-1210
	12	1.347 (34.21)	WM8232-ND	3.22	28.41	189.39	757.55	90136-1212
3	6	.407 (10.34)	WM8247-ND	1.83	16.17	107.77	431.07	90130-1206
	8	.507 (12.88)	WM8248-ND	2.11	18.60	123.99	495.94	90130-1208
	10	.607 (15.42)	WM8249-ND	2.38	21.03	140.17	560.67	90130-1210
	12	.707 (17.96)	WM8250-ND	2.66	23.46	156.39	625.54	90130-1212
	14	.807 (20.50)	WM8251-ND	2.93	25.83	172.18	688.71	90130-1214
	16	.907 (23.04)	WM8252-ND	3.20	28.26	188.40	753.59	90130-1216
	18	1.007 (25.58)	WM8253-ND	3.90	34.46	229.70	918.81	90130-1218
	20	1.107 (28.12)	WM8254-ND	4.20	37.07	247.12	988.48	90130-1220
	24	1.307 (33.20)	WM8255-ND	5.72	50.50	336.66	1346.62	90130-1224
	26	1.407 (35.74)	WM8256-ND	5.64	49.77	331.82	1327.26	90130-1226
	30	1.607 (40.82)	WM8257-ND	6.51	57.43	382.84	1531.35	90130-1230
	34	1.807 (45.90)	WM8258-ND	7.25	63.93	426.19	1704.77	90130-1234
	40	2.107 (53.52)	WM8259-ND	8.15	71.89	479.26	1917.04	90130-1240
	50	2.607 (66.22)	WM8260-ND	9.81	86.54	576.92	2307.69	90130-1250
4	6	.407 (10.34)	WM8275-ND	2.00	17.69	117.91	471.63	90130-3206
	8	.507 (12.88)	WM8276-ND	2.31	20.42	136.14	544.55	90130-3208
	10	.607 (15.42)	WM8277-ND	2.63	23.21	154.76	619.04	90130-3210
	12	.707 (17.96)	WM8278-ND	2.95	26.01	173.38	693.53	90130-3212
	14	.807 (20.50)	WM8279-ND	3.26	28.74	191.61	766.45	90130-3214
	16	.907 (23.04)	WM8280-ND	3.57	31.54	210.27	841.08	90130-3216
	18	1.007 (25.58)	WM8281-ND	4.35	38.35	255.64	1022.55	90130-3218
	20	1.107 (28.12)	WM8282-ND	4.79	42.24	281.57	1126.28	90130-3220
	24	1.307 (33.20)	WM8283-ND	5.74	50.62	337.47	1349.88	90130-3224
	40	2.107 (53.52)	WM8284-ND	8.97	79.18	527.88	2111.52	90130-3240

MTA .100” (2.54mm) Receptacles and Post Headers

IDC Receptacles: • Wire-to-post connectors preloaded with dual beam contacts • Connectors and headers are end-to-end stackable • Connectors preloaded with IDC contact • All contacts are slotted for insulation displacement (IDC) terminal technique • Contacts are lubricated to prevent fretting corrosion • Meets the material requirements of Table 23.1 of UL1410 Standards for Television Receiver and Video Products (wire-to-post connectors only) • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association

Performance Data: Voltage Rating: 250VAC **Current Rating:** 5A **Low-Level Resistance:** 6mΩ initial **Dielectric Withstanding Voltage:** 750VAC/1 minute **Insulation Resistance:** 5000MΩ minimum initial **Operating Temperature:** -55°C ~ 105°C **Material and Finish: Receptacles:** UL94V-2 rated (unless otherwise noted), type 6/6 nylon (28 AWG - Green; 26 AWG - Blue; 24 AWG - White; 22 AWG - Red) **Contacts:** plating is tin or 30µ gold

Replacement IDC Contacts: Material and Finish: Copper alloy, post tin plated; 30µ

CST - 100 Crimp Contacts and Housings: • High current rating • Mates with MTA and similar competitive notched headers • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 **Performance Data: Voltage Rating:** 250VAC **Current Rating:** 4A maximum **Low-Level Resistance:** 6mΩ maximum initial, 10mΩ maximum final **Insulation Resistance:** 1000MΩ minimum initial, 100MΩ minimum final **Operating Temperature:** -55°C ~ 105°C **Contact Finish:** Selective gold, 30µ gold over 127µ nickel or bright tin-lead on entire contact **Wire Range:** 22-26 AWG **Maximum Ins. Diameter:** .065

Keying Plug with Carrier Strip (10 plugs per strip): Material: UL94V-2 rated, type 6/6 nylon, natural color

LED Connectors: Designed to mate with .36mm-.51mm diameter posts or square leads **Material and Finish: Receptacles:** UL94V-2 rated, type 6/6 nylon (28 AWG - Green; 26 AWG - Blue; 24 AWG - White; 22 AWG - Red) **Contacts:** Phosphor bronze, post tin plated, 30µ

Replacement LED Contacts: Material and Finish: Copper alloy, post tin plated; 30µ

Post Headers: Material and Finish: Polyester UL94V-0 rated, natural or black **Post Plating:** tin or 30µ gold

Fig. 1 — Receptacle

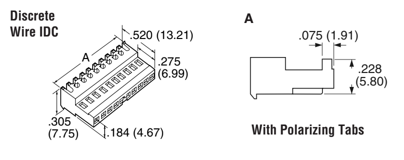

Fig. 2 — IDC & LED Contacts

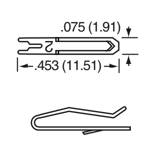

Fig. 3 — CST - 100 Housing

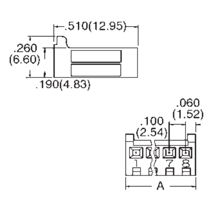

Fig. 4 — CST - 100 Crimp Contact

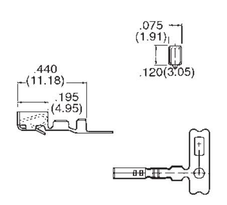

Fig. 5 — Keying Plug

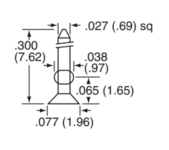

Fig. 6 — Strain Relief Cover - Closed End

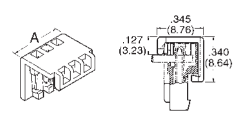

Fig. 7 — Dust Cover - Closed End

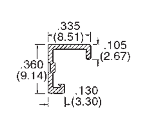

Fig. 8 — Strain Relief Cover - Feed-Thru

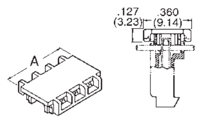

Fig. 9 — Dust Cover - Feed-Thru

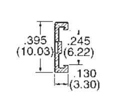

Fig. 10

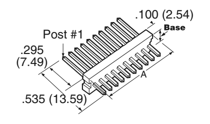

Fig. 11

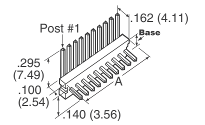

Fig. 12

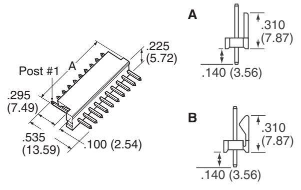

Fig. 13

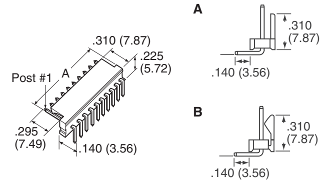

Fig. 14

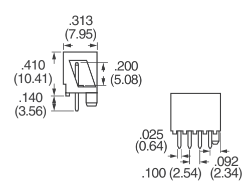

Fig. 15

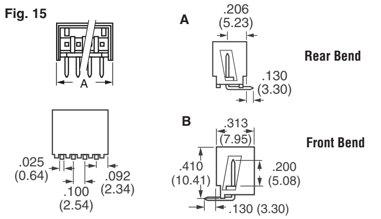

Fig.	Description	Circuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
Receptacles, .100” (2.54mm) Centers							
1	***RoHS Compliant*** Closed End with Lock, without Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A30994-ND	.19	2.63	3-640443-2
		3	.300 (7.62)	A30995-ND	.19	3.20	3-640443-3
		4	.400 (10.16)	A30996-ND	.23	5.29	3-640443-4
		5	.500 (12.70)	A30997-ND	.30	6.75	3-640443-5
		6	.600 (15.24)	A30998-ND	.32	7.21	3-640443-6
		7	.700 (17.78)	A30999-ND	.37	8.42	3-640443-7
		8	.800 (20.32)	A31000-ND	.42	9.59	3-640443-8
		9	.900 (22.86)	A31001-ND	1.05	23.79	3-640443-9
		10	1.000 (25.40)	A30951-ND	.53	12.05	4-640443-0
		11	1.100 (27.94)	A30952-ND	1.28	29.08	4-640443-1
		12	1.200 (30.48)	A30953-ND	.68	15.46	4-640443-2
		13	1.300 (33.02)	A30954-ND	1.52	34.37	4-640443-3
		14	1.400 (35.56)	A30955-ND	1.63	37.01	4-640443-4
		15	1.500 (38.10)	A30956-ND	1.12	25.35	4-640443-5
1A	***RoHS Compliant*** Closed End with Lock, with Polarizing Tabs, 28 AWG, Green, Tin Plated	2	.200 (5.08)	A31031-ND	.19	2.63	3-643816-2
		3	.300 (7.62)	A31032-ND	.21	3.20	3-643816-3
		4	.400 (10.16)	A31033-ND	.23	5.29	3-643816-4
		5	.500 (12.70)	A31034-ND	.30	6.75	3-643816-5
		6	.600 (15.24)	A31035-ND	.32	7.21	3-643816-6
		7	.700 (17.78)	A31036-ND	.37	8.42	3-643816-7
		10	1.000 (25.40)	A30970-ND	.53	12.05	4-643816-0
		12	1.200 (30.48)	A30971-ND	.68	15.46	4-643816-2
		15	1.500 (38.10)	A30972-ND	1.12	25.35	4-643816-5
1	Feed-Thru with Lock, without Polarizing Tabs, 28 AWG Green, Tin Plated	14	1.400 (35.56)	A19144-ND	2.36	53.40	1-640623-4
	RoHS Compliant Feed-Thru with Lock, without Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A30814-ND	.20	4.52	3-640623-2
		3	.300 (7.62)	A30815-ND	.22	5.01	3-640623-3
		4	.400 (10.16)	A30816-ND	.23	5.29	3-640623-4
		5	.500 (12.70)	A30817-ND	.30	6.75	3-640623-5
		6	.600 (15.24)	A30818-ND	.32	7.21	3-640623-6
		7	.700 (17.78)	A30819-ND	.37	8.42	3-640623-7
		8	.800 (20.32)	A30820-ND	.42	9.59	3-640623-8
		9	.900 (22.86)	A30821-ND	1.05	23.79	3-640623-9
		10	1.000 (25.40)	A30802-ND	.53	12.05	4-640623-0
		11	1.100 (27.94)	A30803-ND	1.28	29.08	4-640623-1
		12	1.200 (30.48)	A30804-ND	.68	15.46	4-640623-2
		13	1.300 (33.02)	A30805-ND	1.52	34.37	4-640623-3
		14	1.400 (35.56)	A30806-ND	1.63	37.01	4-640623-4
		15	1.500 (38.10)	A30807-ND	1.12	25.35	4-640623-5
1A	***RoHS Compliant*** Feed-Thru with Lock, with Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A31045-ND	.19	4.36	3-644565-2
		3	.300 (7.62)	A31046-ND	.21	4.83	3-644565-3
		4	.400 (10.16)	A31047-ND	.23	5.29	3-644565-4
		5	.500 (12.70)	A31048-ND	.30	6.75	3-644565-5
		6	.600 (15.24)	A31049-ND	.32	7.21	3-644565-6
		7	.700 (17.78)	A31050-ND	.37	8.42	3-644565-7
		8	.800 (20.32)	A31051-ND	.42	9.59	3-644565-8
		10	1.000 (25.40)	A30975-ND	.53	12.05	4-644565-0
		12	1.200 (30.48)	A30976-ND	.68	15.46	4-644565-2
		15	1.500 (38.10)	A30977-ND	1.12	25.35	4-644565-5
1	Closed End with Lock without Polarizing Tabs, 26 AWG Blue, Tin Plated	11	1.100 (27.94)	A19039-ND	1.37	31.08	1-640442-1
	RoHS Compliant Closed End with Lock, without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A30986-ND	.19	2.63	3-640442-2
		3	.300 (7.62)	A30987-ND	.19	3.20	3-640442-3
		4	.400 (10.16)	A30988-ND	.23	5.29	3-640442-4
		5	.500 (12.70)	A30989-ND	.30	6.75	3-640442-5
		6	.600 (15.24)	A30990-ND	.32	7.21	3-640442-6
		7	.700 (17.78)	A30991-ND	.37	8.42	3-640442-7
		8	.800 (20.32)	A30992-ND	.42	9.59	3-640442-8
		9	.900 (22.86)	A30993-ND	1.05	23.79	3-640442-9
		10	1.000 (25.40)	A30945-ND	.53	12.05	4-640442-0
		11	1.100 (27.94)	A30946-ND	1.28	29.08	4-640442-1
		12	1.200 (30.48)	A30947-ND	.68	15.46	4-640442-2
		13	1.300 (33.02)	A30948-ND	1.52	34.37	4-640442-3
		13	1.300 (33.02)	A30808-ND†	.85	19.34	4-643828-3
		14	1.400 (35.56)	A30949-ND	1.63	37.01	4-640442-4
		15	1.500 (38.10)	A30950-ND	1.12	25.35	4-640442-5
1A	***RoHS Compliant*** Closed End with Lock, with Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A31024-ND	.19	2.63	3-643815-2
		3	.300 (7.62)	A31025-ND	.19	3.20	3-643815-3
		4	.400 (10.16)	A31026-ND	.23	5.29	3-643815-4
		5	.500 (12.70)	A31027-ND	.30	6.75	3-643815-5
		6	.600 (15.24)	A31028-ND	.32	7.21	3-643815-6
		7	.700 (17.78)	A31029-ND	.37	8.42	3-643815-7
		8	.800 (20.32)	A31030-ND	.42	9.59	3-643815-8
		10	1.000 (25.40)	A30967-ND	.53	12.05	4-643815-0
		12	1.200 (30.48)	A30968-ND	.68	15.46	4-643815-2
		13	1.300 (33.02)	A30810-ND†	.85	19.34	4-644313-3
		15	1.500 (38.10)	A30969-ND	1.12	25.35	4-643815-5
1	***RoHS Compliant*** Feed-Thru with Lock, without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A31009-ND	.20	4.53	3-640622-2
		3	.300 (7.62)	A31010-ND	.22	5.00	3-640622-3
		4	.400 (10.16)	A31011-ND	.23	5.29	3-640622-4
		5	.500 (12.70)	A31012-ND	.30	6.75	3-640622-5
		6	.600 (15.24)	A31013-ND	.32	7.21	3-640622-6
		7	.700 (17.78)	A31014-ND	.37	8.42	3-640622-7
		8	.800 (20.32)	A31015-ND	.42	9.59	3-640622-8
		9	.900 (22.86)	A31016-ND	1.05	23.79	3-640622-9
		10	1.000 (25.40)	A30957-ND	1.17	26.44	4-640622-0
		11	1.100 (27.94)	A30958-ND	1.28	29.08	4-640622-1
		12	1.200 (30.48)	A30959-ND	.68	15.46	4-640622-2
		13	1.300 (33.02)	A30960-ND	1.52	34.37	4-640622-3
		13	1.300 (33.02)	A30813-ND†	.85	19.34	4-644577-3
		14	1.400 (35.56)	A30961-ND	1.63	37.01	4-640622-4
		15	1.500 (38.10)	A30962-ND	1.12	25.35	4-640622-5

† UL94V-0 - Black Housing

(Continued)

MTA .100” (2.54mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
1A	***RoHS Compliant*** Feed-Thru with Lock, with Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A31038-ND	.20	4.47	3-644564-2
		3	.300 (7.62)	A31039-ND	.22	5.00	3-644564-3
		4	.400 (10.16)	A31040-ND	.23	5.29	3-644564-4
		5	.500 (12.70)	A31041-ND	.30	6.75	3-644564-5
		6	.600 (15.24)	A31042-ND	.32	7.21	3-644564-6
		7	.700 (17.78)	A31043-ND	.37	8.42	3-644564-7
		8	.800 (20.32)	A31044-ND	.42	9.59	3-644564-8
		12	1.200 (30.48)	A30973-ND	.68	15.46	4-644564-2
		13	1.300 (33.02)	A30811-ND†	.85	19.34	4-644497-3
		15	1.500 (38.10)	A30974-ND	1.12	25.35	4-644564-5
1	Closed End with Lock, without Polarizing Tabs, 24 AWG White Tin Plated	11	1.100 (27.94)	A19024-ND	.69	15.72	1-640441-1
		14	1.400 (35.56)	A19027-ND	3.54	80.09	1-640441-4
	RoHS Compliant Closed End with Lock, without Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A30978-ND	.19	2.63	3-640441-2
		3	.300 (7.62)	A30979-ND	.19	3.20	3-640441-3
		4	.400 (10.16)	A30980-ND	.19	3.23	3-640441-4
		5	.500 (12.70)	A30981-ND	.30	6.75	3-640441-5
		6	.600 (15.24)	A30982-ND	.32	7.21	3-640441-6
		7	.700 (17.78)	A30983-ND	.37	8.42	3-640441-7
		8	.800 (20.32)	A30984-ND	.42	9.59	3-640441-8
		9	.900 (22.86)	A30985-ND	1.05	23.79	3-640441-9
		10	1.000 (25.40)	A30939-ND	.53	12.05	4-640441-0
		11	1.100 (27.94)	A30940-ND	1.28	29.08	4-640441-1
		12	1.200 (30.48)	A30941-ND	.68	15.46	4-640441-2
		13	1.300 (33.02)	A30942-ND	1.52	34.37	4-640441-3
		13	1.300 (33.02)	A30812-ND†	.85	19.34	4-644574-3
		14	1.400 (35.56)	A30943-ND	1.63	37.01	4-640441-4
		15	1.500 (38.10)	A30944-ND	1.12	25.35	4-640441-5
1A	***RoHS Compliant*** Closed End with Locks, with Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A31017-ND	.19	2.63	3-643814-2
		3	.300 (7.62)	A31018-ND	.19	3.20	3-643814-3
		4	.400 (10.16)	A31019-ND	.23	5.29	3-643814-4
		5	.500 (12.70)	A31020-ND	.30	6.75	3-643814-5
		6	.600 (15.24)	A31021-ND	.32	7.21	3-643814-6
		7	.700 (17.78)	A31022-ND	.37	8.42	3-643814-7
		8	.800 (20.32)	A31023-ND	.42	9.59	3-643814-8
		10	1.000 (25.40)	A30963-ND	.53	12.05	4-643814-0
		12	1.200 (30.48)	A30964-ND	.68	15.46	4-643814-2
		13	1.300 (33.02)	A30809-ND†	.85	19.34	4-644312-3
		15	1.500 (38.10)	A30965-ND	1.12	25.35	4-643814-5
		16	1.600 (40.64)	A30966-ND	2.22	50.23	4-643814-6
1	Feed-Thru with Lock, without Polarizing Tabs, 24 AWG White, Tin Plated	9	.900 (22.86)	A19098-ND	2.16	48.91	640621-9
		13	1.300 (33.02)	A19110-ND	2.19	49.58	1-640621-3
	RoHS Compliant Feed-Thru with Lock, without Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A31002-ND	.19	4.31	3-640621-2
		3	.300 (7.62)	A31003-ND	.21	4.81	3-640621-3
		4	.400 (10.16)	A31004-ND	.23	5.29	3-640621-4
		5	.500 (12.70)	A31005-ND	.30	6.75	3-640621-5
		6	.600 (15.24)	A31006-ND	.32	7.21	3-640621-6
		7	.700 (17.78)	A31007-ND	.37	8.42	3-640621-7
		8	.800 (20.32)	A31008-ND	.42	9.59	3-640621-8
		9	.900 (22.86)	A31096-ND	2.02	45.77	3-640621-9
		10	1.000 (25.40)	A31064-ND	.53	12.05	4-640621-0
		11	1.100 (27.94)	A31065-ND	1.28	29.08	4-640621-1
		12	1.200 (30.48)	A31066-ND	.68	15.46	4-640621-2
		13	1.300 (33.02)	A31067-ND	1.52	34.37	4-640621-3
		13	1.300 (33.02)	A30824-ND†	.85	19.34	4-644576-3
		14	1.400 (35.56)	A31068-ND	1.63	37.01	4-640621-4
		15	1.500 (38.10)	A31069-ND	1.12	25.35	4-640621-5
1A	***RoHS Compliant*** Feed-Thru with Lock, with Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A31127-ND	.19	4.35	3-644563-2
		3	.300 (7.62)	A31128-ND	.21	4.73	3-644563-3
		4	.400 (10.16)	A31129-ND	.23	5.29	3-644563-4
		5	.500 (12.70)	A31130-ND	.30	6.75	3-644563-5
		6	.600 (15.24)	A31131-ND	.32	7.21	3-644563-6
		7	.700 (17.78)	A31132-ND	.37	8.42	3-644563-7
		8	.800 (20.32)	A31133-ND	.42	9.59	3-644563-8
		10	1.000 (25.40)	A31077-ND	.53	12.05	4-644563-0
		12	1.200 (30.48)	A31078-ND	.68	15.46	4-644563-2
		13	1.300 (33.02)	A30826-ND†	.85	19.34	4-644579-3
		15	1.500 (38.10)	A31079-ND	1.12	25.35	4-644563-5
1	***RoHS Compliant*** Closed End with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A31080-ND	.19	2.63	3-640440-2
		3	.300 (7.62)	A31081-ND	.19	3.20	3-640440-3
		4	.400 (10.16)	A31082-ND	.23	5.29	3-640440-4
		5	.500 (12.70)	A31083-ND	.30	6.75	3-640440-5
		6	.600 (15.24)	A31084-ND	.32	7.21	3-640440-6
		7	.700 (17.78)	A31085-ND	.37	8.42	3-640440-7
		8	.800 (20.32)	A31086-ND	.42	9.59	3-640440-8
		9	.900 (22.86)	A31087-ND	1.05	23.79	3-640440-9
		10	1.000 (25.40)	A31052-ND	.53	12.05	4-640440-0
		11	1.100 (27.94)	A31053-ND	1.28	29.08	4-640440-1
		12	1.200 (30.48)	A31054-ND	.68	15.46	4-640440-2
		13	1.300 (33.02)	A31055-ND	1.52	34.37	4-640440-3
		14	1.400 (35.56)	A31056-ND	1.63	37.01	4-640440-4
		15	1.500 (38.10)	A31057-ND	1.12	25.35	4-640440-5
1A	***RoHS Compliant*** Closed End with Lock, with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A31107-ND	.19	2.63	3-643813-2
		2	.200 (5.08)	A30841-ND†	.37	8.37	3-644083-2
		3	.300 (7.62)	A30842-ND†	.93	20.98	3-644083-3
		4	.400 (10.16)	A31108-ND	.23	5.29	3-643813-4
		5	.500 (12.70)	A31109-ND	.30	6.75	3-643813-5
		7	.700 (17.78)	A31110-ND	.37	8.42	3-643813-7
		8	.800 (20.32)	A31111-ND	.42	9.59	3-643813-8
		10	1.000 (25.40)	A31070-ND	.53	12.05	4-643813-0
		11	1.100 (27.94)	A31071-ND	2.47	55.95	4-643813-1
		12	1.200 (30.48)	A31072-ND	.68	15.46	4-643813-2
		13	1.300 (33.02)	A30822-ND†	.85	19.34	4-644083-3
		15	1.500 (38.10)	A31073-ND	1.12	25.35	4-643813-5

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
1	***RoHS Compliant*** Feed -Thru with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A31088-ND	.20	4.51	3-640620-2
		3	.300 (7.62)	A31089-ND	.22	4.92	3-640620-3
		4	.400 (10.16)	A31090-ND	.23	5.29	3-640620-4
		5	.500 (12.70)	A31091-ND	.30	6.75	3-640620-5
		6	.600 (15.24)	A31092-ND	.32	7.21	3-640620-6
		7	.700 (17.78)	A31093-ND	.37	8.42	3-640620-7
		8	.800 (20.32)	A31094-ND	.42	9.59	3-640620-8
		9	.900 (22.86)	A31095-ND	1.05	23.79	3-640620-9
		10	1.000 (25.40)	A31058-ND	.53	12.05	4-640620-0
		11	1.100 (27.94)	A31059-ND	1.28	29.08	4-640620-1
		12	1.200 (30.48)	A31060-ND	.68	15.46	4-640620-2
		13	1.300 (33.02)	A31061-ND	1.52	34.37	4-640620-3
		13	1.300 (33.02)	A30823-ND†	.85	19.34	4-644575-3
		14	1.400 (35.56)	A31062-ND	1.63	37.01	4-640620-4
		15	1.500 (38.10)	A31063-ND	1.12	25.35	4-640620-5
1A	***RoHS Compliant*** Feed -Thru with Lock, with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A31120-ND	.22	4.49	3-644540-2
		3	.300 (7.62)	A31121-ND	.22	4.97	3-644540-3
		4	.400 (10.16)	A31122-ND	.23	5.29	3-644540-4
		5	.500 (12.70)	A31123-ND	.30	6.75	3-644540-5
		6	.600 (15.24)	A31124-ND	.32	7.21	3-644540-6
		7	.700 (17.78)	A31125-ND	.37	8.42	3-644540-7
		8	.800 (20.32)	A31126-ND	.42	9.59	3-644540-8
		10	1.000 (25.40)	A31074-ND	.53	12.05	4-644540-0
		12	1.200 (30.48)	A31075-ND	.68	15.46	4-644540-2
		13	1.300 (33.02)	A30825-ND†	.85	19.34	4-644578-3
		15	1.500 (38.10)	A31076-ND	1.12	25.35	4-644540-5
Replacement IDC Contacts – RoHS Compliant							
2	Std. 28 AWG, Tin Plated	—	—	A31100-ND	1.63/25	2.31/50	640639-2
	Std. 26 AWG, Tin Plated	—	—	A31099-ND	1.84/25	2.60/50	640638-3
	Std. 24 AWG, Tin Plated	—	—	A31098-ND	1.84/25	2.60/50	640637-3
	Std. 22 AWG, Tin Plated	—	—	A31097-ND	1.84/25	2.60/50	640636-3
CST-100 Crimp Housing (Contacts Sold Separately) – RoHS Compliant							
3	22-26 AWG White (Not to be used with MTA .100 Shrouded Header)	2	.220 (5.59)	A19490-ND	.30	3.31	770602-2
		3	.320 (8.13)	A19491-ND	.17	2.66	770602-3
		4	.420 (10.67)	A19492-ND	.18	3.55	770602-4
		5	.520 (13.21)	A19493-ND	.37	8.28	770602-5
		6	.620 (15.75)	A19494-ND	.44	9.94	770602-6
		7	.720 (18.29)	A19495-ND	.51	11.60	770602-7
		8	.820 (20.83)	A19496-ND	.59	13.25	770602-8
		9	.920 (23.37)	A19497-ND	.66	14.91	770602-9
		10	1.020 (25.91)	A19498-ND	.73	16.57	1-770602-0
		11	1.120 (28.45)	A19499-ND	.80	18.23	1-770602-1
		12	1.220 (30.99)	A19500-ND	.88	19.88	1-770602-2
		13	1.320 (33.53)	A19510-ND	.95	21.54	1-770602-3
		14	1.420 (36.07)	A19511-ND	1.02	23.20	1-770602-4
		15	1.520 (38.61)	A23961-ND	1.10	24.85	1-770602-5
CST-100 Crimp Contact (26-22 AWG) – RoHS Compliant							
4	Tin Plated, Loose	—	—	A19520-ND	2.28/25	4.05/50	770666-1
	Gold Plated, Loose	—	—	A23962-ND	13.58/25	24.14/50	770666-2
	Gold Plated, Strip	—	—	A23962CT-ND	31.42/100	144.00/500	770601-2
	Gold Plated, Strip	—	—	A23962TR-ND	864.02/5,500		770601-2
LED Receptacles (mate with .36-.51mm diameter posts), .100” (2.54mm) Centers							
1	Closed End with Lock, without Polarizing Tabs, 24 AWG White, Tin Plated	5	.500 (12.70)	A23920-ND	.32	7.21	641535-5
	Closed End with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	8	.800 (20.32)	A23923-ND	.45	10.25	641534-8
LED Receptacles (mate with .36-.51mm diameter posts), .100” (2.54mm) Centers – RoHS Compliant							
1	Closed End with Lock, without Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A30831-ND	.19	2.74	3-641537-2
		3	.300 (7.62)	A30832-ND	.19	3.20	3-641537-3
	Closed End with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	8	.800 (20.32)	A34823-ND	.70	15.95	3-641534-8
	Feed-Thru with Lock, without Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A30835-ND	.19	4.31	3-641654-2
		3	.300 (7.62)	A30836-ND	.21	4.81	3-641654-3
	Closed End with Lock, without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A31101-ND	.21	2.63	3-641536-2
		3	.300 (7.62)	A31102-ND	.21	3.20	3-641536-3
	Closed End with Lock, without Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A30829-ND	.19	2.74	3-641535-2
		3	.300 (7.62)	A30830-ND	.21	3.20	3-641535-3
		5	.500 (12.70)	A34824-ND	.50	11.22	3-641535-5
		6	.600 (15.24)	A34825-ND	.53	11.99	3-641535-6
	Feed-Thru with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	8	.800 (20.32)	A33191-ND	.42	9.59	3-641653-8
	Feed-Thru with Lock, without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A30837-ND	.20	4.49	3-641655-2
		3	.300 (7.62)	A30838-ND	.22	5.00	3-641655-3

† UL94V-0 - Black Housing

(Continued)

MTA .100” (2.54mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
1A	Closed End with Lock, with Polarizing Tabs, 24 AWG, White, Tin Plated	2	.200 (5.08)	A30843-ND	.21	2.63	3-644795-2
1	Feed-Thru with Lock, without Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A30839-ND	.19	4.35	3-641656-2
		3	.300 (7.62)	A30840-ND	.21	4.81	3-641656-3
	Closed End with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A30827-ND	.19	2.74	3-641534-2
		3	.300 (7.62)	A30828-ND	.19	3.20	3-641534-3
	Feed-Thru with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A30833-ND	.20	4.50	3-641653-2
		3	.300 (7.62)	A30834-ND	.22	4.97	3-641653-3
Replacement LED Contacts – RoHS Compliant							
2	28 AWG, Tin Plated	—	—	A31106-ND	2.07/25	3.67/50	641646-1
	26 AWG, Tin Plated	—	—	A31105-ND	2.07/25	3.67/50	641645-1
	24 AWG, Tin Plated	—	—	A31104-ND	2.07/25	3.67/50	641644-1
	22 AWG, Tin Plated	—	—	A31103-ND	2.07/25	3.67/50	641643-1
Keying Plugs with Carrier Strip – RoHS Compliant							
5	10 Plugs per Strip	—	—	A19310-ND	.68	15.29	641994-1
Accessories, .100 – RoHS Compliant							
6	Closed End, Strain Relief Covers, White	2	.200 (5.08)	A19230-ND	.39	8.78	643075-2
		3	.300 (7.62)	A19231-ND	.46	10.25	643075-3
		4	.400 (10.16)	A19232-ND	.42	9.55	643075-4
		5	.500 (12.70)	A19233-ND	.46	10.42	643075-5
		6	.600 (15.24)	A19234-ND	.44	9.90	643075-6
		7	.700 (17.78)	A19235-ND	.47	10.58	643075-7
		8	.800 (20.32)	A19236-ND	1.32	29.60	643075-8
		9	.900 (22.86)	A19237-ND	1.32	29.70	643075-9
		10	1.000 (25.40)	A19238-ND	1.32	29.81	1-643075-0
		11	1.100 (27.94)	A19239-ND	1.33	29.91	1-643075-1
		12	1.200 (30.48)	A19240-ND	1.33	30.02	1-643075-2
		13	1.300 (33.02)	A19241-ND	1.27	28.61	1-643075-3
		14	1.400 (35.56)	A19242-ND	1.34	30.22	1-643075-4
		15	1.500 (38.10)	A23892-ND	1.35	30.33	1-643075-5
7	Closed End, Dust Covers, White	2	—	A19250-ND	.08	1.84	640550-2
		3	—	A19251-ND	.30	2.27	640550-3
		4	—	A19252-ND	.31	4.88	640550-4
		5	—	A19253-ND	.30	3.24	640550-5
		6	—	A19254-ND	.31	6.37	640550-6
		7	—	A19255-ND	.32	7.10	640550-7
		8	—	A19256-ND	.35	7.94	640550-8
		9	—	A19257-ND	.38	8.62	640550-9
		10	—	A19258-ND	.41	9.30	1-640550-0
		11	—	A19259-ND	.44	9.99	1-640550-1
		12	—	A19260-ND	.49	11.12	1-640550-2
		13	—	A19261-ND	.52	11.68	1-640550-3
		14	—	A19262-ND	.56	12.54	1-640550-4
		15	—	A23893-ND	.59	13.26	1-640550-5
8	Feed-Thru, Strain Relief Covers, White	2	.200 (5.08)	A19270-ND	.59	13.24	643077-2
		3	.300 (7.62)	A19271-ND	.20	4.49	643077-3
		4	.400 (10.16)	A19272-ND	.27	5.98	643077-4
		5	.500 (12.70)	A19273-ND	.66	14.79	643077-5
		6	.600 (15.24)	A19274-ND	.72	16.13	643077-6
		7	.700 (17.78)	A19275-ND	.74	16.73	643077-7
		8	.800 (20.32)	A19276-ND	.85	19.12	643077-8
		9	.900 (22.86)	A19277-ND	1.42	31.89	643077-9
		10	1.000 (25.40)	A19278-ND	1.32	29.81	1-643077-0
		11	1.100 (27.94)	A19279-ND	1.33	29.91	1-643077-1
		12	1.200 (30.48)	A19280-ND	1.33	30.02	1-643077-2
		13	1.300 (33.02)	A19281-ND	1.34	30.12	1-643077-3
		14	1.400 (35.56)	A19282-ND	1.34	30.22	1-643077-4
		15	1.500 (38.10)	A23894-ND	1.35	30.33	1-643077-5
9	Feed-Thru, Dust Covers White	3	—	A19291-ND	.30	2.27	640642-3
		4	—	A19292-ND	.30	2.80	640642-4
		5	—	A19293-ND	.30	3.24	640642-5
		6	—	A19294-ND	.31	6.37	640642-6
		7	—	A19295-ND	.32	7.10	640642-7
		8	—	A19296-ND	.35	7.94	640642-8
		9	—	A19297-ND	.38	8.62	640642-9
		10	—	A19298-ND	.41	9.30	1-640642-0
		11	—	A19299-ND	.44	9.99	1-640642-1
		12	—	A19300-ND	.49	11.12	1-640642-2
		13	—	A19301-ND	.52	11.68	1-640642-3
		14	—	A19302-ND	.56	12.54	1-640642-4
		15	—	A23895-ND	.59	13.26	1-640642-5
Post Headers, .100” (2.54mm) Centers (.200” (5.08mm) Wide Base) – RoHS Compliant							
10	Straight Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1911-ND	.30	5.71	640452-2
		3	.300 (7.62)	A19330-ND	.31	4.61	640452-3
		4	.400 (10.16)	A1912-ND	.35	7.77	640452-4
		5	.500 (12.70)	A19331-ND	.43	9.72	640452-5
		6	.600 (15.24)	A1913-ND	.47	10.60	640452-6
		7	.700 (17.78)	A19332-ND	.55	12.37	640452-7
		8	.800 (20.32)	A1914-ND	.63	14.14	640452-8
		9	.900 (22.86)	A19333-ND	.61	13.83	640452-9
		10	1.000 (25.40)	A1915-ND	.79	17.67	1-640452-0
		15	1.500 (38.10)	A24931-ND	1.47	33.13	1-640452-5
11	Right Angle Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1916-ND	.24	3.20	640453-2
		3	.300 (7.62)	A19340-ND	.31	6.06	640453-3
		4	.400 (10.16)	A1917-ND	.36	8.09	640453-4
		5	.500 (12.70)	A19341-ND	.45	10.11	640453-5
		6	.600 (15.24)	A1918-ND	.49	11.03	640453-6
		7	.700 (17.78)	A19342-ND	.57	12.86	640453-7
		8	.800 (20.32)	A1919-ND	.57	12.79	640453-8
		9	.900 (22.86)	A19343-ND	.74	16.54	640453-9
		10	1.000 (25.40)	A1920-ND	.82	18.38	1-640453-0
		12	1.200 (30.48)	A23927-ND	.98	22.05	1-640453-2
		15	1.500 (38.10)	A23896-ND	4.23	95.29	1-640453-5

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
Narrow Base Post Headers, .100” (2.54mm) Centers (2.34mm Wide Base)							
10	Straight Post, .64 (.025) Square, without Retentive Legs, Tin Plated	6	.588 (14.94)	A19354-ND	.38	8.52	644456-6
	RoHS Compliant Straight Post, .64 (.025) Square, without Retentive Legs, Tin Plated	2	.188 (4.78)	A31112-ND	.30	4.20	3-644456-2
		3	.288 (7.32)	A31113-ND	.30	5.18	3-644456-3
		4	.388 (9.86)	A31114-ND	.31	6.91	3-644456-4
		5	.488 (12.40)	A31115-ND	.38	8.64	3-644456-5
		6	.588 (14.94)	A31116-ND	.42	9.42	3-644456-6
		7	.688 (17.48)	A31117-ND	.49	11.00	3-644456-7
		8	.788 (20.02)	A31118-ND	.56	12.57	3-644456-8
		9	.888 (22.56)	A31119-ND	.62	14.14	3-644456-9
		10	.988 (25.10)	A30844-ND	.79	17.67	4-644456-0
		11	1.088 (27.64)	A30845-ND	.86	19.44	4-644456-1
		12	1.188 (30.18)	A30846-ND	.94	21.20	4-644456-2
		13	1.288 (32.72)	A30847-ND	1.02	22.97	4-644456-3
		14	1.388 (35.26)	A30848-ND	1.10	24.74	4-644456-4
	RoHS Compliant Straight Post, .64 (.025) Square, with Retentive Legs Tin Plated	2	.188 (4.78)	A30916-ND	.23	5.20	3-644695-2
		3	.288 (7.32)	A30917-ND	.25	5.58	3-644695-3
		4	.388 (9.86)	A30918-ND	.38	8.55	3-644695-4
		5	.488 (12.40)	A30919-ND	.48	10.69	3-644695-5
		6	.588 (14.94)	A30920-ND	.52	11.66	3-644695-6
		7	.688 (17.48)	A30921-ND	.60	13.61	3-644695-7
		8	.788 (20.02)	A30922-ND	.69	15.55	3-644695-8
		9	.888 (22.56)	A30923-ND	.78	17.49	3-644695-9
		10	.988 (25.10)	A30869-ND	.86	19.44	4-644695-0
		11	1.088 (27.64)	A30870-ND	.95	21.38	4-644695-1
		12	1.188 (30.18)	A30871-ND	2.87	64.50	4-644695-2
		13	1.288 (32.72)	A30872-ND	1.12	25.27	4-644695-3
		14	1.388 (35.26)	A30873-ND	1.21	27.21	4-644695-4
11	***RoHS Compliant*** Right Angle Post, .64 (.025) Square, without Retentive Legs, Tin Plated	2	.188 (4.78)	A30884-ND	.18	4.04	3-644457-2
		3	.288 (7.32)	A30885-ND	.23	5.27	3-644457-3
		4	.388 (9.86)	A30886-ND	.36	8.09	3-644457-4
		5	.488 (12.40)	A30887-ND	.45	10.11	3-644457-5
		6	.588 (14.94)	A30888-ND	.49	11.03	3-644457-6
		7	.688 (17.48)	A30889-ND	1.58	35.57	3-644457-7
		8	.788 (20.02)	A30890-ND	.65	14.70	3-644457-8
		9	.888 (22.56)	A30891-ND	.74	16.54	3-644457-9
		10	.988 (25.10)	A30849-ND	.82	18.38	4-644457-0
		11	1.088 (27.64)	A30850-ND	.90	20.21	4-644457-1
		12	1.188 (30.18)	A30851-ND	.98	22.05	4-644457-2
		13	1.288 (32.72)	A30852-ND	1.06	23.89	4-644457-3
		14	1.388 (35.26)	A30853-ND	1.14	25.73	4-644457-4
	Right Angle Post, .64 (.025) Square, with Retentive Legs, Tin Plated	14	1.400 (35.56)	A19422-ND	5.46	35.98	1-644694-4
	RoHS Compliant Right Angle Post, .64 (.025) Square, with Retentive Legs, Tin Plated	2	.188 (4.78)	A30908-ND	.17	3.87	3-644694-2
		3	.288 (7.32)	A30909-ND	.26	5.80	3-644694-3
		4	.388 (9.86)	A30910-ND	.40	8.90	3-644694-4
		5	.488 (12.40)	A30911-ND	.49	11.12	3-644694-5
		6	.588 (14.94)	A30912-ND	.54	12.13	3-644694-6
		7	.688 (17.48)	A30913-ND	.63	14.15	3-644694-7
		8	.788 (20.02)	A30914-ND	.72	16.17	3-644694-8
		9	.888 (22.56)	A30915-ND	.81	18.19	3-644694-9
		10	.988 (25.10)	A30864-ND	.90	20.21	4-644694-0
		11	1.088 (27.64)	A30865-ND	.99	22.24	4-644694-1
		12	1.188 (30.18)	A30866-ND	1.08	24.26	4-644694-2
		13	1.288 (32.72)	A30867-ND	1.17	26.28	4-644694-3
		14	1.388 (35.26)	A30868-ND	1.26	28.30	4-644694-4
Polarized Headers, .100” (2.54mm) Centers							
12A	***RoHS Compliant*** Straight Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A19423-ND	.30	1.95	640454-2
		3	.300 (7.62)	A19430-ND	.30	2.69	640454-3
		4	.400 (10.16)	A19431-ND	.31	3.58	640454-4
		5	.500 (12.70)	A19432-ND	.31	4.35	640454-5
		6	.600 (15.24)	A19433-ND	.31	4.93	640454-6
		7	.700 (17.78)	A19434-ND	.31	5.59	640454-7
		8	.800 (20.32)	A19435-ND	.31	5.91	640454-8
		9	.900 (22.86)	A19436-ND	.78	17.49	640454-9
		10	1.000 (25.40)	A19437-ND	.32	7.09	1-640454-0
		11	1.100 (27.94)	A19438-ND	.95	21.38	1-640454-1
		12	1.200 (30.48)	A19439-ND	.48	10.75	1-640454-2
		13	1.300 (33.02)	A19440-ND	1.12	25.27	1-640454-3
		14	1.400 (35.56)	A19441-ND	1.21	27.21	1-640454-4
		15	1.500 (38.10)	A23929-ND	1.62	36.45	1-640454-5
	Straight Post, .64 (.025) Square, 30µ Gold Plated	13	1.300 (33.02)	A23907-ND	3.58	80.55	1-641213-3

† UL94V-0 - Black Housing

(Continued)

MTA .100” (2.54mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
12A	***RoHS Compliant*** Straight Post, .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A30770-ND	.59	13.34	3-641213-2
		3	.300 (7.62)	A30771-ND	.92	20.62	3-641213-3
		4	.400 (10.16)	A30772-ND	1.14	25.65	3-641213-4
		5	.500 (12.70)	A30773-ND	1.09	24.43	3-641213-5
		6	.600 (15.24)	A30774-ND	1.56	35.18	3-641213-6
		7	.700 (17.78)	A30775-ND	1.74	39.09	3-641213-7
		8	.800 (20.32)	A30776-ND	1.08	24.35	3-641213-8
		9	.900 (22.86)	A30777-ND	2.19	49.25	3-641213-9
		10	1.000 (25.40)	A30747-ND	2.28	51.31	4-641213-0
		11	1.100 (27.94)	A30748-ND	2.65	59.51	4-641213-1
		12	1.200 (30.48)	A30749-ND	2.78	62.59	4-641213-2
		13	1.300 (33.02)	A30750-ND	3.06	68.75	4-641213-3
		14	1.400 (35.56)	A30751-ND	3.24	72.85	4-641213-4
		15	1.500 (38.10)	A30752-ND	3.33	74.92	4-641213-5
13A	***RoHS Compliant*** Right Angle Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A19450-ND	.30	1.95	640455-2
		3	.300 (7.62)	A19451-ND	.30	2.69	640455-3
		4	.400 (10.16)	A19452-ND	.31	3.58	640455-4
		5	.500 (12.70)	A19453-ND	.31	4.35	640455-5
		6	.600 (15.24)	A19454-ND	.31	4.93	640455-6
		7	.700 (17.78)	A19455-ND	.31	5.59	640455-7
		8	.800 (20.32)	A19456-ND	.31	5.91	640455-8
		9	.900 (22.86)	A19457-ND	.78	17.49	640455-9
		10	1.000 (25.40)	A19458-ND	.32	7.09	1-640455-0
		11	1.100 (27.94)	A19459-ND	.95	21.38	1-640455-1
		12	1.200 (30.48)	A19460-ND	.48	10.75	1-640455-2
		13	1.300 (33.02)	A19461-ND	1.12	25.27	1-640455-3
		14	1.400 (35.56)	A19462-ND	1.21	27.21	1-640455-4
		15	1.500 (38.10)	A23932-ND	1.62	36.45	1-640455-5
	Right Angle Post, .64 (.025) Square, 30µ Gold Plated	13	1.300 (33.02)	A24927-ND	3.97	89.31	1-641214-3
		15	1.500 (38.10)	A24929-ND	4.46	100.38	1-641214-5
	RoHS Compliant Right Angle Post, .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A30778-ND	1.00	22.57	3-641214-2
		3	.300 (7.62)	A30779-ND	1.37	30.78	3-641214-3
		4	.400 (10.16)	A30780-ND	1.69	37.96	3-641214-4
		5	.500 (12.70)	A30781-ND	1.96	44.12	3-641214-5
		6	.600 (15.24)	A30782-ND	2.23	50.28	3-641214-6
		7	.700 (17.78)	A30783-ND	2.42	54.38	3-641214-7
		8	.800 (20.32)	A30784-ND	1.08	24.35	3-641214-8
		9	.900 (22.86)	A30785-ND	2.65	59.51	3-641214-9
		10	1.000 (25.40)	A30753-ND	2.76	62.08	4-641214-0
		11	1.100 (27.94)	A30754-ND	2.87	64.64	4-641214-1
		12	1.200 (30.48)	A30755-ND	3.10	69.78	4-641214-2
		13	1.300 (33.02)	A30756-ND	3.42	76.96	4-641214-3
		14	1.400 (35.56)	A30757-ND	3.56	80.04	4-641214-4
		15	1.500 (38.10)	A30758-ND	3.60	80.97	4-641214-5
Post Headers, .100” (2.54mm) Centers, Friction Lock Header							
12B	***RoHS Compliant*** Straight Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1921-ND	.30	1.95	640456-2
		3	.300 (7.62)	A19470-ND	.30	2.69	640456-3
		4	.400 (10.16)	A1922-ND	.31	3.58	640456-4
		5	.500 (12.70)	A19471-ND	.31	4.35	640456-5
		6	.600 (15.24)	A1923-ND	.31	4.93	640456-6
		7	.700 (17.78)	A19472-ND	.31	5.59	640456-7
		8	.800 (20.32)	A1924-ND	.31	5.91	640456-8
		9	.900 (22.86)	A19473-ND	.78	17.49	640456-9
		10	1.000 (25.40)	A1925-ND	.32	7.09	1-640456-0
		11	1.100 (27.94)	A19474-ND	.95	21.38	1-640456-1
		12	1.200 (30.48)	A19475-ND	.48	10.75	1-640456-2
		13	1.300 (33.02)	A19476-ND	1.12	25.27	1-640456-3
		14	1.400 (35.56)	A19477-ND	.96	21.51	1-640456-4
		15	1.500 (38.10)	A24930-ND	1.62	36.45	1-640456-5
		16	1.600 (40.64)	A29106-ND	1.73	38.87	1-640456-6
		20	2.000 (50.80)	A29104-ND	1.88	42.26	2-640456-0
		24	2.400 (60.96)	A29105-ND	2.59	58.31	2-640456-4
	RoHS Compliant Straight Post, .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A30786-ND	.32	7.15	3-641215-2
		3	.300 (7.62)	A30787-ND	.54	12.13	3-641215-3
		4	.400 (10.16)	A30788-ND	1.13	25.41	3-641215-4
		5	.500 (12.70)	A30789-ND	1.48	33.23	3-641215-5
		6	.600 (15.24)	A30790-ND	1.65	37.14	3-641215-6
		7	.700 (17.78)	A30791-ND	1.82	41.04	3-641215-7
		8	.800 (20.32)	A30792-ND	1.08	24.35	3-641215-8
		9	.900 (22.86)	A30793-ND	2.17	48.86	3-641215-9
		10	1.000 (25.40)	A30759-ND	2.30	51.79	4-641215-0
		11	1.100 (27.94)	A30760-ND	2.65	59.61	4-641215-1
		12	1.200 (30.48)	A30761-ND	2.78	62.54	4-641215-2
		14	1.400 (35.56)	A30762-ND	3.26	73.29	4-641215-4
		15	1.500 (38.10)	A30763-ND	3.56	80.13	4-641215-5
13B	***RoHS Compliant*** Right Angle Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1926-ND	.30	1.95	640457-2
		3	.300 (7.62)	A19480-ND	.30	2.69	640457-3
		4	.400 (10.16)	A1927-ND	.31	3.58	640457-4
		5	.500 (12.70)	A19481-ND	.31	4.35	640457-5
		6	.600 (15.24)	A1928-ND	.31	4.93	640457-6
		7	.700 (17.78)	A19482-ND	.31	5.59	640457-7
		8	.800 (20.32)	A1929-ND	.31	5.91	640457-8
		9	.900 (22.86)	A19483-ND	.78	17.49	640457-9
		10	1.000 (25.40)	A1930-ND	.32	7.09	1-640457-0
		11	1.100 (27.94)	A19484-ND	.95	21.38	1-640457-1
		12	1.200 (30.48)	A19485-ND	.48	10.75	1-640457-2
		13	1.300 (33.02)	A19486-ND	1.12	25.27	1-640457-3
		14	1.400 (35.56)	A19487-ND	1.21	27.21	1-640457-4

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
13B	Right Angle Post, .64 (.025) Square, 30µ Gold Plated	5	.500 (12.70)	A24946-ND	1.95	43.83	641216-5
		10	1.000 (25.40)	A24950-ND	2.74	61.58	1-641216-0
	RoHS Compliant Right Angle Post, .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A30794-ND	.91	20.57	3-641216-2
		3	.300 (7.62)	A30795-ND	.75	16.78	3-641216-3
		4	.400 (10.16)	A30796-ND	1.53	34.35	3-641216-4
		5	.500 (12.70)	A30797-ND	1.82	41.04	3-641216-5
		6	.600 (15.24)	A30798-ND	2.00	44.95	3-641216-6
		7	.700 (17.78)	A30799-ND	2.08	46.91	3-641216-7
		8	.800 (20.32)	A30800-ND	1.08	24.35	3-641216-8
		9	.900 (22.86)	A30801-ND	2.30	51.79	3-641216-9
		10	1.000 (25.40)	A30764-ND	2.56	57.66	4-641216-0
		11	1.100 (27.94)	A30765-ND	2.78	62.54	4-641216-1
		12	1.200 (30.48)	A30766-ND	3.42	76.88	4-641216-2
		13	1.300 (33.02)	A30767-ND	3.30	74.27	4-641216-3
		14	1.400 (35.56)	A30768-ND	3.52	79.16	4-641216-4
		15	1.500 (38.10)	A30769-ND	3.60	80.97	4-641216-5
Shrouded Headers, .100” (2.54mm)							
14	Straight Post, .64 (.025) Square with Pegs, Tin Plated	7	—	A23930-ND	1.62	36.49	644486-7
		11	—	A23936-ND	3.44	77.41	1-644486-1
		12	—	A23937-ND	2.78	62.55	1-644486-2
		14	—	A23939-ND	4.38	98.52	1-644486-4
	RoHS Compliant Straight Post, .64 (.025) Square with Pegs, Tin Plated	2	—	A30892-ND†	.49	11.06	2-644486-2
		3	—	A30893-ND†	.56	12.55	2-644486-3
		4	—	A30894-ND†	.95	21.47	2-644486-4
		5	—	A30895-ND†	1.19	26.83	2-644486-5
		6	—	A30896-ND†	1.30	29.27	2-644486-6
		7	—	A30897-ND†	1.52	34.14	2-644486-7
		8	—	A30898-ND†	.77	17.37	2-644486-8
		9	—	A30899-ND†	3.75	84.46	2-644486-9
		10	—	A30854-ND†	3.09	69.45	3-644486-0
		11	—	A30855-ND†	2.38	53.66	3-644486-1
		12	—	A30856-ND†	2.60	58.54	3-644486-2
		13	—	A30857-ND†	2.82	63.41	3-644486-3
		14	—	A30858-ND†	3.04	68.29	3-644486-4
	Straight Post, .64 (.025) Square without Pegs, Tin Plated	13	—	A23864-ND	4.07	91.49	1-644861-3
		14	—	A23865-ND	4.38	98.52	1-644861-4
	RoHS Compliant Straight Post, .64 (.025) Square without Pegs, Tin Plated	2	—	A30931-ND†	.58	13.07	2-644861-2
		3	—	A30932-ND†	.83	18.67	2-644861-3
		4	—	A30933-ND†	.95	21.47	2-644861-4
		5	—	A30934-ND†	1.19	26.83	2-644861-5
		6	—	A30935-ND†	1.30	29.27	2-644861-6
		7	—	A30936-ND†	1.44	32.44	2-644861-7
		8	—	A30937-ND†	.77	17.37	2-644861-8
		9	—	A30938-ND†	3.75	84.46	2-644861-9
		10	—	A30879-ND†	3.09	69.45	3-644861-0
		11	—	A30880-ND†	2.38	53.66	3-644861-1
		12	—	A30881-ND†	2.60	58.54	3-644861-2
		13	—	A30882-ND†	2.82	63.41	3-644861-3
		14	—	A30883-ND†	3.04	68.29	3-644861-4
15A	Right-Angle Post, .64 (.025) Square, Front Bend without Pegs, Tin Plated	9	.984 (24.99)	A23873-ND	2.91	65.56	644488-9
	RoHS Compliant Right-Angle Post, .64 (.025) Square, Front Bend without Pegs, Tin Plated	2	.284 (7.21)	A30900-ND†	.49	11.11	2-644488-2
		3	.384 (9.75)	A30901-ND†	.74	16.66	2-644488-3
		4	.484 (12.29)	A30902-ND†	.99	22.22	2-644488-4
		5	.584 (14.83)	A30903-ND†	1.17	26.38	2-644488-5
		6	.684 (17.37)	A30904-ND†	1.35	30.29	2-644488-6
		7	.784 (19.91)	A30905-ND†	1.57	35.34	2-644488-7
		8	.884 (22.45)	A30906-ND†	1.80	40.39	2-644488-8
		9	.984 (24.99)	A30907-ND†	2.73	61.35	2-644488-9
		10	1.084 (27.53)	A30859-ND†	3.19	71.88	3-644488-0
		11	1.184 (30.07)	A30860-ND†	2.47	55.54	3-644488-1
		12	1.284 (32.61)	A30861-ND†	2.69	60.59	3-644488-2
		13	1.384 (35.15)	A30862-ND†	2.92	65.63	3-644488-3
		14	1.484 (37.69)	A30863-ND†	3.16	71.03	3-644488-4
15B	Right-Angle Post, Rear Bend without Pegs, Tin Plated	6	.684 (17.37)	A23883-ND	1.44	32.37	644803-6
		9	.984 (24.99)	A23886-ND	2.91	65.56	644803-9
		11	1.184 (30.07)	A23888-ND	3.56	80.12	1-644803-1
		14	1.484 (37.69)	A23891-ND	4.55	102.47	1-644803-4
	RoHS Compliant Right-Angle Post, .64 (.025) Square, Rear Bend without Pegs, Tin Plated	2	.284 (7.21)	A30924-ND†	.49	11.11	2-644803-2
		3	.384 (9.75)	A30925-ND†	.74	16.66	2-644803-3
		4	.484 (12.29)	A30926-ND†	.99	22.22	2-644803-4
		5	.584 (14.83)	A30927-ND†	.62	14.05	2-644803-5
		6	.684 (17.37)	A30928-ND†	1.35	30.29	2-644803-6
		7	.784 (19.91)	A30929-ND†	2.06	46.37	2-644803-7
		9	.984 (24.99)	A30830-ND†	.21	3.20	2-644803-9
		10	1.084 (27.53)	A30874-ND†	3.19	71.88	3-644803-0
		11	1.184 (30.07)	A30875-ND†	2.47	55.54	3-644803-1
		12	1.284 (32.61)	A30876-ND†	2.69	60.59	3-644803-2
		13	1.384 (35.15)	A30877-ND†	2.92	65.63	3-644803-3
		14	1.484 (37.69)	A30878-ND†	3.16	71.03	3-644803-4

A9982-ND	T-Handle Tool for MTA .100” (2.54mm)	18.29/1	59803-1
A9973-ND	Crimp Die for MTA .100” (2.54mm) Feed-Thru Receptacles (Must be used with handle A2031-ND) use with Fig. 1	547.17/1	58442-1
A1998-ND	Crimp Die for MTA .100” (2.54mm) IDC Closed End Receptacles (Must be used with handle A2031-ND) use with Fig. 1	122.85/1	58246-1
A2031-ND	Manual Pistol Grip Handle for Metal and All-Plastic Shell Connectors. (Must order crimp die separately) use with Fig. 1	58.28/1	58074-1
A19530-ND	Crimp Tool for CST-100 with Die	210.59/1	58517-1
A19531-ND	Die Set for CST-100 (use with A9996-ND)	168.17/1	58517-2
A9996-ND	Crimp Tool Handle for CST-100.	66.00/1	354940-1

† UL94V-0 - Black Housing

Tyco Electronics AMP

Authorized Distributor

MTA .156” (3.96mm) Receptacles and Post Headers

IDC Connectors: • Wire-to-post connectors preloaded with dual beam contacts • Connectors and headers are end-to-end stackable • Connectors preloaded with IDC contacts • All contacts are slotted for insulation displacement (IDC) terminal technique • Contacts are lubricated to prevent fretting corrosion • Meets the material requirements of Table 23.1 of UL1410 Standards for Television Receiver and Video Products (wire-to-post connectors only) • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 **Performance Data: Voltage Rating:** 250VAC **Current Rating:** 7A **Low-Level Resistance:** 3mΩ maximum initial **Dielectric Withstanding Voltage:** 1250VAC/1 minute **Insulation Resistance:** 5000MΩ min. initial **Operating Temperature:** -55°C ~ 105°C **Material and Finish – Housing:** UL94V-2 rated, type 6/6 nylon (24AWG - White; 22AWG - Red; 20AWG - Yellow; 18AWG - Orange) **Contacts:** Phosphor bronze, post tin plated, 30µ

Replacement IDC Contacts: **Material and Finish:** Phosphor bronze, post tin plated; 30µ

SL-156 Crimp Contacts and Housings: • High current rating • Mates with MTA and similar competitive notched headers • Rugged wire-to-board interconnection to mate with .045 square or round post headers • Housing made of flame retardant 6/6 nylon • Connectors are end-to-end stackable • Wire-to-board system offers polarization with friction lock for positive mating • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 **Performance Data: Voltage Rating:** 250VAC **Current Rating:** 10A maximum @ 250VAC **Low-Level Resistance:** 3.0mΩ maximum initial **Dielectric Withstanding Voltage:** 2000VAC/1 minute **Insulation Resistance:** 1000MΩ minimum initial **Operating Temperature:** -55°C ~ 105°C **Material and Finish (Contacts):** Bright tin plated brass or phosphor bronze; .012 (0.3) pre-tin or 30µ over nickel **Wire Range:** 18-24AWG **Maximum Insulation Diameter:** .110 (2.79mm)

Keying Plug with Carrier Strip (10 plugs per strip): **Material:** UL94V-2 rated, type 6/6 nylon, natural color

Post Headers: **Material For Housing:** Polyester 94V-0 rated, white **Posts:** Copper alloy

Fig. 1 – Discrete Wire IDC

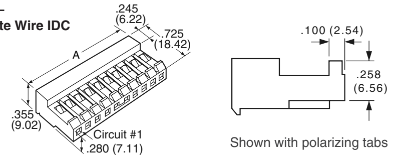

Shown with polarizing tabs

Fig. 2

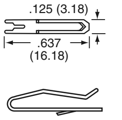

Fig. 3

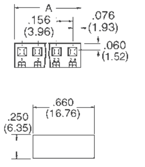

Fig. 4

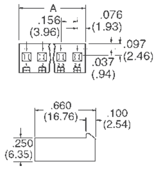

Fig. 5

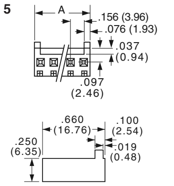

Fig. 6 – High Force

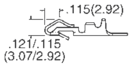

Fig. 7 – Low Force

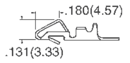

Fig. 8 – Hooded

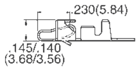

Fig. 9 – Strain Relief Cover,Closed End

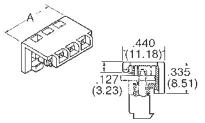

Fig. 10 – Dust Cover, Closed End

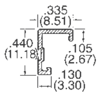

Fig. 11 – Strain Relief Cover, Feed Thru

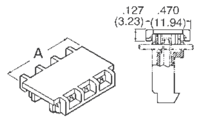

Fig. 12 – Dust Cover, Feed Thru

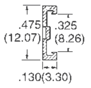

Fig. 13

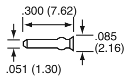

Fig. 14

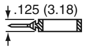

Fig. 15

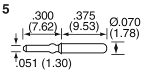

Fig. 16

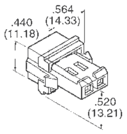

Fig. 17

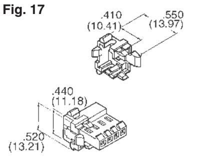

Fig. 18

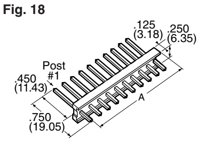

Fig. 19

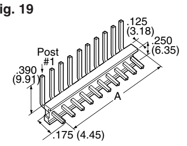

Fig. 20

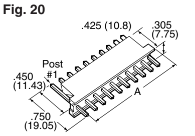

Fig. 21

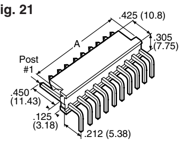

Fig. 22

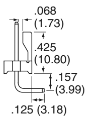

Description	Digi-Key Part No.	Price Each	AMP Part No.
Tools			
Crimp Tool with Die for SL-156 Contacts .060”-.100” Insulation Diameter	A30703-ND	551.57	91597-1
Crimp Tool with Die for SL-156 Contacts .043”-.075” Insulation Diameter	A30704-ND	551.57	91598-1
T-Handle Tool Prototype Tool for MTA .156” (3.96mm) IDC Connectors	A9981-ND	18.29	59804-1
Crimp Die for MTA .156” (3.96mm) IDC, Closed End Receptacles (Must be used with handle A2031-ND)	A1999-ND	122.85	58247-1
Crimp Die for MTA .156” (3.96mm) IDC, Feed Thru Receptacles (Must be used with handle A2031-ND)	A30528-ND	448.88	58443-1
Manual Pistol Grip Tool IDC (Must order crimp die separately)	A2031-ND	58.28	58074-1

Fig.	Description	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
Receptacles, .156” (3.96mm) Centers							
1	***RoHS Compliant*** Closed End with Lock without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.312 (7.92)	A31216-ND	.63	14.23	3-640430-2
		3	.468 (11.89)	A31217-ND	.21	3.80	3-640430-3
		4	.624 (15.85)	A31218-ND	.30	6.82	3-640430-4
		5	.780 (19.81)	A31219-ND	.61	13.88	3-640430-5
		6	.936 (23.77)	A31220-ND	.39	8.93	3-640430-6
		7	1.092 (27.74)	A31221-ND	.78	17.66	3-640430-7
		8	1.248 (31.70)	A31222-ND	.89	20.18	3-640430-8
		9	1.404 (35.66)	A31223-ND	1.00	22.71	3-640430-9
		10	1.560 (39.62)	A31224-ND	1.11	25.23	4-640430-0
		11	1.716 (43.59)	A31225-ND	1.23	27.75	4-640430-1
		12	1.872 (47.55)	A31226-ND	1.34	30.27	4-640430-2
		17	2.652 (67.36)	A31227-ND	.89	20.22	4-640430-7
1	***RoHS Compliant*** Closed End with Lock with Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.312 (7.92)	A31604-ND	.25	5.55	3-643821-2
		3	.468 (11.89)	A31605-ND	.21	3.80	3-643821-3
		4	.624 (15.85)	A31606-ND	.31	7.10	3-643821-4
		5	.780 (19.81)	A31607-ND	.61	13.88	3-643821-5
		6	.936 (23.77)	A31608-ND	.41	9.26	3-643821-6
		7	1.092 (27.74)	A31609-ND	.78	17.66	3-643821-7
		8	1.248 (31.70)	A31610-ND	.89	20.18	3-643821-8
		9	1.404 (35.66)	A31611-ND	1.00	22.71	3-643821-9
		10	1.560 (39.62)	A31612-ND	1.11	25.23	4-643821-0
		11	1.716 (43.59)	A31613-ND	1.23	27.75	4-643821-1
		12	1.872 (47.55)	A31614-ND	1.34	30.27	4-643821-2
		17	2.652 (67.36)	A31615-ND	.89	20.22	4-643821-7
1	***RoHS Compliant*** Closed End without Lock without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.312 (7.92)	A31580-ND	.21	3.86	3-640435-2
		3	.468 (11.89)	A31581-ND	.21	3.80	3-640435-3
		4	.624 (15.85)	A31582-ND	.30	6.82	3-640435-4
		5	.780 (19.81)	A31583-ND	.61	13.88	3-640435-5
		6	.936 (23.77)	A31584-ND	.39	8.93	3-640435-6
		7	1.092 (27.74)	A31585-ND	.78	17.66	3-640435-7
		8	1.248 (31.70)	A31586-ND	.89	20.18	3-640435-8
		9	1.404 (35.66)	A31587-ND	1.00	22.71	3-640435-9
		10	1.560 (39.62)	A31588-ND	1.11	25.23	4-640435-0
		11	1.716 (43.59)	A31589-ND	1.23	27.75	4-640435-1
		12	1.872 (47.55)	A31590-ND	1.34	30.27	4-640435-2
		17	2.652 (67.36)	A31591-ND	.89	20.16	4-640435-7
1	***RoHS Compliant*** Feed-Thru with Lock without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.312 (7.92)	A31592-ND	.21	3.86	3-640595-2
		3	.468 (11.89)	A31593-ND	.28	6.45	3-640595-3
		4	.624 (15.85)	A31594-ND	.33	7.36	3-640595-4
		5	.780 (19.81)	A31595-ND	.61	13.88	3-640595-5
		6	.936 (23.77)	A31596-ND	.39	8.93	3-640595-6
		7	1.092 (27.74)	A31597-ND	.78	17.66	3-640595-7
		8	1.248 (31.70)	A31598-ND	.89	20.18	3-640595-8
		9	1.404 (35.66)	A31599-ND	1.00	22.71	3-640595-9
		10	1.560 (39.62)	A31600-ND	1.11	25.23	4-640595-0
		11	1.716 (43.59)	A31601-ND	1.23	27.75	4-640595-1
		12	1.872 (47.55)	A31602-ND	1.34	30.27	4-640595-2
		17	2.652 (67.36)	A31603-ND	.89	20.22	4-640595-7
1	Closed End with Lock without Polarizing Tabs, 24 AWG White, Tin Plated	5	.780 (19.81)	A19633-ND	1.57	35.63	640429-5
1	***RoHS Compliant*** Closed End with Lock without Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A31240-ND	.30	5.55	3-640429-2
		3	.468 (11.89)	A31241-ND	.21	3.80	3-640429-3
		4	.624 (15.85)	A31242-ND	.30	6.82	3-640429-4
		5	.780 (19.81)	A31243-ND	1.47	33.37	3-640429-5
		6	.936 (23.77)	A31244-ND	.39	8.93	3-640429-6
		7	1.092 (27.74)	A31245-ND	.78	17.66	3-640429-7
		8	1.248 (31.70)	A31246-ND	1.18	26.65	3-640429-8
		9	1.404 (35.66)	A31247-ND	1.00	22.71	3-640429-9
		10	1.560 (39.62)	A31248-ND	1.11	25.23	4-640429-0
		11	1.716 (43.59)	A31249-ND	1.23	27.75	4-640429-1
		12	1.872 (47.55)	A31250-ND	1.34	30.27	4-640429-2
		17	2.652 (67.36)	A31251-ND	.89	20.16	4-640429-7
1	***RoHS Compliant*** Closed End with Lock with Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A31643-ND	.32	5.55	3-643820-2
		3	.468 (11.89)	A31644-ND	.21	3.94	3-643820-3
		4	.624 (15.85)	A31645-ND	.30	6.82	3-643820-4
		5	.780 (19.81)	A31646-ND	.61	13.88	3-643820-5
		6	.936 (23.77)	A31647-ND	.39	8.93	3-643820-6
		7	1.092 (27.74)	A31648-ND	.78	17.66	3-643820-7
		8	1.248 (31.70)	A31649-ND	.89	20.18	3-643820-8
		9	1.404 (35.66)	A31650-ND	1.00	22.71	3-643820-9
		10	1.560 (39.62)	A31651-ND	1.11	25.23	4-643820-0
		11	1.716 (43.59)	A31652-ND	1.23	27.75	4-643820-1
		12	1.872 (47.55)	A31653-ND	1.34	30.27	4-643820-2
		17	2.652 (67.36)	A31654-ND	.89	20.16	4-643820-7
1	Closed End without Lock without Polarizing Tabs, 24 AWG White, Tin Plated	7	1.092 (27.74)	A26063-ND	2.00	45.35	640434-7
		8	1.248 (31.70)	A26064-ND	.95	21.55	640434-8
1	***RoHS Compliant*** Closed End without Lock without Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A31264-ND	.31	3.86	3-640434-2
		3	.468 (11.89)	A31265-ND	.21	3.80	3-640434-3
		4	.624 (15.85)	A31266-ND	.30	6.82	3-640434-4
		5	.780 (19.81)	A31267-ND	.61	13.88	3-640434-5
		6	.936 (23.77)	A31268-ND	.39	8.93	3-640434-6
		7	1.092 (27.74)	A31269-ND	1.88	42.46	3-640434-7
		8	1.248 (31.70)	A31270-ND	.89	20.18	3-640434-8
		9	1.404 (35.66)	A31271-ND	1.00	22.71	3-640434-9
		10	1.560 (39.62)	A31272-ND	1.11	25.23	4-640434-0
		11	1.716 (43.59)	A31273-ND	1.23	27.75	4-640434-1
		12	1.872 (47.55)	A31274-ND	1.34	30.27	4-640434-2
		17	2.652 (67.36)	A31275-ND	.89	20.16	4-640434-7

(Continued)

MTA .156” (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
1	Feed-Thru with Lock without Polarizing Tabs, 24 AWG White, Tin Plated	9	1.404 (35.66)	A19727-ND	1.45	32.73	640602-9
		10	1.560 (39.62)	A19728-ND	1.61	36.37	1-640602-0
1	***RoHS Compliant*** Feed-Thru with Lock without Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A31628-ND	.24	4.44	3-640602-2
		3	.468 (11.89)	A31629-ND	.28	6.44	3-640602-3
		4	.624 (15.85)	A31630-ND	.30	6.82	3-640602-4
		5	.780 (19.81)	A31631-ND	.61	13.88	3-640602-5
		6	.936 (23.77)	A31632-ND	.39	8.93	3-640602-6
		7	1.092 (27.74)	A31633-ND	.78	17.66	3-640602-7
		8	1.248 (31.70)	A31634-ND	.89	20.18	3-640602-8
		9	1.404 (35.66)	A31635-ND	1.00	22.71	3-640602-9
		10	1.560 (39.62)	A31636-ND	1.11	25.23	4-640602-0
		11	1.716 (43.59)	A31637-ND	1.23	27.75	4-640602-1
		12	1.872 (47.55)	A31638-ND	1.34	30.27	4-640602-2
		17	2.652 (67.36)	A31639-ND	.89	20.16	4-640602-7
1	Closed End with Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	11	1.716 (43.59)	A19619-ND	1.77	40.01	1-640428-1
1	***RoHS Compliant*** Closed End with Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A31228-ND	.30	5.55	3-640428-2
		3	.468 (11.89)	A31229-ND	.21	3.80	3-640428-3
		4	.624 (15.85)	A31230-ND	.30	6.82	3-640428-4
		5	.780 (19.81)	A31231-ND	.61	13.88	3-640428-5
		6	.936 (23.77)	A31232-ND	.39	8.93	3-640428-6
		7	1.092 (27.74)	A31233-ND	1.88	42.46	3-640428-7
		8	1.248 (31.70)	A31234-ND	.89	20.18	3-640428-8
		9	1.404 (35.66)	A31235-ND	1.00	22.71	3-640428-9
		10	1.560 (39.62)	A31236-ND	1.11	25.23	4-640428-0
		11	1.716 (43.59)	A31237-ND	1.23	27.75	4-640428-1
		12	1.872 (47.55)	A31238-ND	1.34	30.27	4-640428-2
		17	2.652 (67.36)	A31239-ND	.91	20.61	4-640428-7
1	***RoHS Compliant*** Closed End with Lock with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A31276-ND	.30	5.55	3-643819-2
		3	.468 (11.89)	A31277-ND	.21	3.80	3-643819-3
		4	.624 (15.85)	A31278-ND	.30	6.82	3-643819-4
		5	.780 (19.81)	A31279-ND	1.47	33.37	3-643819-5
		6	.936 (23.77)	A31280-ND	.39	8.93	3-643819-6
		7	1.092 (27.74)	A31281-ND	1.34	30.26	3-643819-7
		8	1.248 (31.70)	A31282-ND	.89	20.18	3-643819-8
		9	1.404 (35.66)	A31283-ND	1.00	22.71	3-643819-9
		10	1.560 (39.62)	A31284-ND	1.11	25.23	4-643819-0
		11	1.716 (43.59)	A31640-ND	1.23	27.75	4-643819-1
		12	1.872 (47.55)	A31641-ND	1.34	30.27	4-643819-2
		17	2.652 (67.36)	A31642-ND	1.66	37.63	4-643819-7
1	Closed End without Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	10	1.560 (39.62)	A24001-ND	2.86	64.79	1-640433-0
1	***RoHS Compliant*** Closed End without Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A31252-ND	.30	5.55	3-640433-2
		3	.468 (11.89)	A31253-ND	.21	3.80	3-640433-3
		4	.624 (15.85)	A31254-ND	.30	6.82	3-640433-4
		5	.780 (19.81)	A31255-ND	.61	13.88	3-640433-5
		6	.936 (23.77)	A31256-ND	.39	8.93	3-640433-6
		7	1.092 (27.74)	A31257-ND	.78	17.66	3-640433-7
		8	1.248 (31.70)	A31258-ND	1.21	27.29	3-640433-8
		9	1.404 (35.66)	A31259-ND	1.00	22.71	3-640433-9
		10	1.560 (39.62)	A31260-ND	1.38	31.29	4-640433-0
		11	1.716 (43.59)	A31261-ND	1.23	27.75	4-640433-1
		12	1.872 (47.55)	A31262-ND	1.61	36.54	4-640433-2
		17	2.652 (67.36)	A31263-ND	1.48	33.60	4-640433-7
1	***RoHS Compliant*** Closed End without Lock with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A31285-ND	.30	5.55	3-644463-2
		3	.468 (11.89)	A31286-ND	.29	6.49	3-644463-3
		4	.624 (15.85)	A31287-ND	.30	6.82	3-644463-4
		5	.780 (19.81)	A31288-ND	.61	13.88	3-644463-5
		6	.936 (23.77)	A31289-ND	.39	8.93	3-644463-6
		7	1.092 (27.74)	A31290-ND	.78	17.66	3-644463-7
		8	1.248 (31.70)	A31291-ND	.89	20.18	3-644463-8
		9	1.404 (35.66)	A31292-ND	1.00	22.71	3-644463-9
		10	1.560 (39.62)	A31293-ND	1.11	25.23	4-644463-0
		11	1.716 (43.59)	A31294-ND	1.23	27.75	4-644463-1
		12	1.872 (47.55)	A31295-ND	1.34	30.27	4-644463-2
1	Feed-Thru with Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	5	.780 (19.81)	A19703-ND	1.28	29.02	640601-5
1	***RoHS Compliant*** Feed-Thru with Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A31616-ND	.76	17.21	3-640601-2
		3	.468 (11.89)	A31617-ND	.28	6.44	3-640601-3
		4	.624 (15.85)	A31618-ND	.31	7.11	3-640601-4
		5	.780 (19.81)	A31619-ND	1.20	27.17	3-640601-5
		6	.936 (23.77)	A31620-ND	.39	8.93	3-640601-6
		7	1.092 (27.74)	A31621-ND	.78	17.66	3-640601-7
		8	1.248 (31.70)	A31622-ND	.89	20.18	3-640601-8
		9	1.404 (35.66)	A31623-ND	1.00	22.71	3-640601-9
		10	1.560 (39.62)	A31624-ND	1.63	36.83	4-640601-0
		11	1.716 (43.59)	A31625-ND	1.23	27.75	4-640601-1
		12	1.872 (47.55)	A31626-ND	1.34	30.27	4-640601-2
		17	2.652 (67.36)	A31627-ND	.91	20.61	4-640601-7
1	***RoHS Compliant*** Closed End with Lock without Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A31308-ND	.30	5.55	3-640427-2
		3	.468 (11.89)	A31309-ND	.21	3.80	3-640427-3
		4	.624 (15.85)	A31310-ND	.30	6.82	3-640427-4
		5	.780 (19.81)	A31311-ND	.61	13.88	3-640427-5
		6	.936 (23.77)	A31312-ND	.44	9.89	3-640427-6
		7	1.092 (27.74)	A31313-ND	.78	17.66	3-640427-7
		8	1.248 (31.70)	A31314-ND	.89	20.18	3-640427-8
		9	1.404 (35.66)	A31315-ND	1.29	29.10	3-640427-9
		10	1.560 (39.62)	A31316-ND	1.11	25.23	4-640427-0
		11	1.716 (43.59)	A31317-ND	1.23	27.75	4-640427-1
		12	1.872 (47.55)	A31318-ND	1.34	30.27	4-640427-2
		17	2.652 (67.36)	A31319-ND	.91	20.61	4-640427-7
1	Closed End with Lock with Polarizing Tabs, 20 AWG Yellow, Tin Plated	10	1.560 (39.62)	A26103-ND	2.86	64.79	1-643818-0
		11	1.716 (43.59)	A26104-ND	1.77	40.01	1-643818-1
1	***RoHS Compliant*** Closed End with Lock with Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A31363-ND	.30	5.55	3-643818-2
		3	.468 (11.89)	A31364-ND	.21	3.80	3-643818-3
		4	.624 (15.85)	A31365-ND	.30	6.82	3-643818-4
		5	.780 (19.81)	A31366-ND	.61	13.88	3-643818-5
		6	.936 (23.77)	A31367-ND	.39	8.93	3-643818-6
		7	1.092 (27.74)	A31368-ND	.78	17.66	3-643818-7
		8	1.248 (31.7)	A31369-ND	.89	20.18	3-643818-8
1	***RoHS Compliant*** Closed End with Lock with Polarizing Tabs. 20 AWG Yellow, Tin Plated	9	1.404 (35.66)	A31370-ND	1.00	22.71	3-643818-9
		10	1.560 (39.62)	A31671-ND	1.38	31.31	4-643818-0
		11	1.716 (43.59)	A33192-ND	1.23	27.75	4-643818-1
		12	1.872 (47.55)	A31371-ND	1.34	30.27	4-643818-2
		17	2.652 (67.36)	A33193-ND	1.15	26.13	4-643818-7
1	Closed End without Lock without Polarizing Tabs, 20 AWG Yellow, Tin Plated	17	2.652 (67.36)	A24015-ND	.97	22.01	1-640432-7
1	***RoHS Compliant*** Closed End without Lock without Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A31332-ND	.76	17.22	3-640432-2
		3	.468 (11.89)	A31333-ND	.21	3.80	3-640432-3
		4	.624 (15.85)	A31334-ND	.30	6.82	3-640432-4
		5	.780 (19.81)	A31335-ND	.61	13.88	3-640432-5
		6	.936 (23.77)	A31336-ND	.39	8.93	3-640432-6
		7	1.092 (27.74)	A31337-ND	.78	17.66	3-640432-7
		8	1.248 (31.70)	A31338-ND	.89	20.18	3-640432-8
		9	1.404 (35.66)	A31339-ND	1.00	22.71	3-640432-9
		10	1.560 (39.62)	A31340-ND	1.11	25.23	4-640432-0
		11	1.716 (43.59)	A31341-ND	1.23	27.75	4-640432-1
		12	1.872 (47.55)	A31342-ND	1.34	30.27	4-640432-2
		17	2.652 (67.36)	A31343-ND	.91	20.61	4-640432-7
1	Feed-Thru with Lock without Polarizing Tabs, 20 AWG Yellow, Tin Plated	9	1.404 (35.66)	A19687-ND	2.58	58.31	640600-9
1	***RoHS Compliant*** Feed-Thru with Lock without Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A31655-ND	.76	17.22	3-640600-2
		3	.468 (11.89)	A31656-ND	.29	6.50	3-640600-3
		4	.624 (15.85)	A31657-ND	.32	7.18	3-640600-4
		5	.780 (19.81)	A31658-ND	.61	13.88	3-640600-5
		6	.936 (23.77)	A31659-ND	.39	8.93	3-640600-6
		7	1.092 (27.74)	A31660-ND	.78	17.66	3-640600-7
		8	1.248 (31.70)	A31661-ND	.89	20.18	3-640600-8
		9	1.404 (35.66)	A31662-ND	1.54	34.81	3-640600-9
		10	1.560 (39.62)	A31663-ND	1.11	25.23	4-640600-0
		11	1.716 (43.59)	A31664-ND	1.23	27.75	4-640600-1
		12	1.872 (47.55)	A31665-ND	1.34	30.27	4-640600-2
		17	2.652 (67.36)	A31666-ND	.91	20.61	4-640600-7
1	***RoHS Compliant*** Feed-Thru with Lock with Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A31383-ND	.30	5.55	3-644466-2
		3	.468 (11.89)	A31384-ND	.29	6.50	3-644466-3
		4	.624 (15.85)	A31385-ND	.32	7.18	3-644466-4
		5	.780 (19.81)	A31386-ND	.61	13.88	3-644466-5
		6	.936 (23.77)	A31387-ND	.39	8.93	3-644466-6
		7	1.092 (27.74)	A31388-ND	.78	17.66	3-644466-7
		8	1.248 (31.70)	A31389-ND	.89	20.18	3-644466-8
		9	1.404 (35.66)	A31390-ND	1.00	22.71	3-644466-9
		10	1.560 (39.62)	A31391-ND	1.11	25.23	4-644466-0
		11	1.716 (43.59)	A31392-ND	1.23	27.75	4-644466-1
		12	1.872 (47.55)	A31393-ND	1.34	30.27	4-644466-2
1	***RoHS Compliant*** Closed End with Lock without Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A31296-ND	.30	5.55	3-640426-2
		3	.468 (11.89)	A31297-ND	.31	5.66	3-640426-3
		4	.624 (15.85)	A31298-ND	.45	10.17	3-640426-4
		5	.780 (19.81)	A31299-ND	.61	13.88	3-640426-5
		6	.936 (23.77)	A31300-ND	.39	8.93	3-640426-6
		7	1.092 (27.74)	A31301-ND	.78	17.66	3-640426-7
		8	1.248 (31.70)	A31302-ND	.89	20.18	3-640426-8
		9	1.404 (35.66)	A31303-ND	1.00	22.71	3-640426-9
		10	1.560 (39.62)	A31304-ND	1.11	25.23	4-640426-0
		11	1.716 (43.59)	A31305-ND	1.23	27.75	4-640426-1
		12	1.872 (47.55)	A31306-ND	1.34	30.27	4-640426-2
		17	2.652 (67.36)	A31307-ND	.89	20.23	4-640426-7
1	Closed End with Lock with Polarizing Tabs, 18 AWG Orange, Tin Plated	10	1.560 (39.62)	A26125-ND	2.71	61.38	1-643817-0
1	***RoHS Compliant*** Closed End with Lock with Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A31355-ND	.30	5.55	3-643817-2
		3	.468 (11.89)	A31356-ND	.21	3.80	3-643817-3
		4	.624 (15.85)	A31357-ND	.30	6.82	3-643817-4
		5	.780 (19.81)	A31358-ND	.61	13.88	3-643817-5
		6	.936 (23.77)	A31359-ND	.39	8.93	3-643817-6
		7	1.092 (27.74)	A31360-ND	1.31	29.75	3-643817-7
		8	1.248 (31.70)	A31361-ND	.89	20.18	3-643817-8
		9	1.404(35.56)	A31667-ND	1.19	26.96	3-643817-9
		10	1.560 (39.62)	A31668-ND	1.11	25.23	4-643817-0
		11	1.716 (43.59)	A31362-ND	1.70	38.48	4-643817-1
		12	1.872 (47.55)	A31669-ND	1.59	35.95	4-643817-2
		17	2.652 (67.36)	A31670-ND	1.66	37.63	4-643817-7
1	Closed End without Lock without Polarizing Tabs, 18 AWG Orange, Tin Plated	17	2.652 (67.36)	A24028-ND	.95	21.61	1-640431-7
1	***RoHS Compliant*** Closed End without Lock without Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A31320-ND	.30	5.55	3-640431-2
		3	.468 (11.89)	A31321-ND	.21	3.80	3-640431-3
		4	.624 (15.85)	A31322-ND	.30	6.82	3-640431-4
		5	.780 (19.81)	A31323-ND	.61	13.88	3-640431-5
		6	.936 (23.77)	A31324-ND	.39	8.93	3-640431-6
		7	1.092 (27.74)	A31325-ND	.78	17.66	3-640431-7
		8	1.248 (31.70)	A31326-ND	.89	20.18	3-640431-8
		9	1.404 (35.66)	A31327-ND	1.00	22.71	3-640431-9
		10	1.560 (39.62)	A31328-ND	1.11	25.23	4-640431-0
		11	1.716 (43.59)	A31329-ND	1.23	27.75	4-640431-1
		12	1.872 (47.55)	A31330-ND	1.34	30.27	4-640431-2
		17	2.652 (67.36)	A31331-ND	.89	20.23	4-640431-7
1	***RoHS Compliant*** Feed-Thru with Lock without Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A31344-ND	.30	5.55	3-640599-2
		3	.468 (11.89)	A31345-ND	.28	6.44	3-640599-3
		4	.624 (15.85)	A31346-ND	.31	7.09	3-640599-4
		5	.780 (19.81)	A31347-ND	.61	13.88	3-640599-5
		6	.936 (23.77)	A31348-ND	.39	8.93	3-640599-6
		7	1.092 (27.74)	A31349-ND	1.31	29.76	3-640599-7
		8	1.248 (31.70)	A31350-ND	.89	20.18	3-640599-8
		9	1.404 (35.66)	A31351-ND	1.00	22.71	3-640599-9
		10	1.560 (39.62)	A31352-ND	1.11	25.23	4-640599-0
		11	1.716 (43.59)	A31353-ND	1.70	38.45	4-640599-1
		12	1.872 (47.55)	A31354-ND	1.34	30.27	4-640599-2
1	***RoHS Compliant*** Feed-Thru with Lock with Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A31372-ND	.30	5.55	3-644465-2
		3	.468 (11.89)	A31373-ND	.28	6.42	3-644465-3
		4	.624 (15.85)	A31374-ND	.31	7.09	3-644465-4
		5	.780 (19.81)	A31375-ND	.61	13.88	3-644465-5
		6	.936 (23.77)	A31376-ND	.39	8.93	3-644465-6

(Continued)

MTA .156” (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
1	***RoHS Compliant*** Feed-Thru with Lock with Polarizing Tabs, 18 AWG Orange, Tin Plated	7	1.092 (27.74)	A31377-ND	.78	17.66	3-644465-7
		8	1.248 (31.70)	A31378-ND	.89	20.18	3-644465-8
		9	1.404 (35.66)	A31379-ND	1.00	22.71	3-644465-9
		10	1.560 (39.62)	A31380-ND	1.11	25.23	4-644465-0
		11	1.716 (43.59)	A31381-ND	1.23	27.75	4-644465-1
Replacement IDC Contacts, .156” (3.96mm) Centers — RoHS Compliant							
2	Tin Plated, 18 AWG	—	—	A31672-ND	.30	2.79	640631-3
	Tin Plated, 20 AWG	—	—	A31673-ND	.30	2.79	640632-3
	Tin Plated, 22 AWG	—	—	A31674-ND	.30	2.79	640633-3
	Tin Plated, 24 AWG	—	—	A31675-ND	.30	2.79	640634-3
SL-156 Crimp Housings (Contacts Sold Separately) — RoHS Compliant							
3	Without Lock Ramp Without Polarizing Tabs, UL94V-0 White	2	.308 (7.82)	A19970-ND	.29	3.54	640251-2
		3	.465 (11.81)	A19971-ND	.30	4.24	640251-3
		4	.620 (15.75)	A19972-ND	.31	5.65	640251-4
		5	.777 (19.74)	A19973-ND	.31	7.06	640251-5
		6	.933 (23.70)	A19974-ND	.31	6.12	640251-6
		7	1.090 (27.69)	A19975-ND	.44	9.88	640251-7
		8	1.246 (31.65)	A19976-ND	.50	11.29	640251-8
		9	1.402 (35.61)	A19977-ND	.56	12.71	640251-9
		10	1.558 (39.57)	A19978-ND	.62	14.11	1-640251-0
		11	1.715 (43.56)	A19979-ND	.69	15.53	1-640251-1
		12	1.871 (47.52)	A19980-ND	1.16	26.36	1-640251-2
		13	2.027 (51.49)	A24128-ND	.81	18.35	1-640251-3
		14	2.183 (55.45)	A24129-ND	.87	19.76	1-640251-4
		16	2.496 (63.40)	A24130-ND	1.00	22.59	1-640251-6
4	With Lock Ramp Without Polarizing Tabs, UL94V-0 White (Not to be used with Rear Bend Friction Lock header)	2	.308 (7.82)	A19950-ND	.31	2.82	640250-2
		3	.465 (11.81)	A19951-ND	.30	2.60	640250-3
		4	.620 (15.75)	A19952-ND	.31	5.65	640250-4
		5	.777 (19.74)	A19953-ND	.30	4.28	640250-5
		6	.933 (23.70)	A19954-ND	.30	5.20	640250-6
		7	1.090 (27.69)	A19955-ND	.31	5.29	640250-7
		8	1.246 (31.65)	A19956-ND	.31	7.00	640250-8
		9	1.402 (35.61)	A19957-ND	.56	12.71	640250-9
		10	1.558 (39.57)	A19958-ND	.62	14.11	1-640250-0
		11	1.715 (43.56)	A19959-ND	.69	15.53	1-640250-1
		12	1.871 (47.52)	A19960-ND	.46	10.41	1-640250-2
		13	2.027 (51.49)	A28761-ND	.81	18.35	1-640250-3
		14	2.183 (55.45)	A24126-ND	.87	19.76	1-640250-4
		16	2.496 (63.40)	A24127-ND	1.00	22.59	1-640250-6
5	With Lock Ramp With Polarizing Tabs, UL94V-0 White (Not to be used with Rear Bend Friction Lock header)	2	.308 (7.82)	A24111-ND	.29	2.82	770849-2
		3	.465 (11.81)	A24112-ND	.30	4.24	770849-3
		4	.620 (15.75)	A24113-ND	.31	5.65	770849-4
		5	.777 (19.74)	A24114-ND	.31	4.65	770849-5
		6	.933 (23.70)	A24115-ND	.37	8.47	770849-6
		7	1.090 (27.69)	A24116-ND	.44	9.88	770849-7
		8	1.246 (31.65)	A24117-ND	.50	11.29	770849-8
		9	1.402 (35.61)	A24118-ND	.42	9.57	770849-9
		10	1.558 (39.57)	A24119-ND	.62	14.11	1-770849-0
		11	1.715 (43.56)	A24120-ND	.69	15.53	1-770849-1
		12	1.871 (47.52)	A24121-ND	.75	16.94	1-770849-2
		13	2.027 (51.49)	A24122-ND	.81	18.35	1-770849-3
		14	2.183 (55.45)	A24123-ND	.87	19.76	1-770849-4
		16	2.496 (63.40)	A24124-ND	1.00	22.59	1-770849-6

Fig.	Description	Digi-Key Part No.	Loose Piece Pricing		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		AMP Part No.
			1	25			100	500	
SL-156 Crimp Contacts (24-18 AWG)									
6	Brass, Tin Plated, 6.5A	A31396-ND◆	.28	6.28	3-640706-1	A31395CT-ND◆ A31395TR-ND◆	5.50 192.57/7,000	25.22	3-640252-1
	Brass, Pre-Tin Plated, 6.5A	A19991-ND◆	.31	4.91	640706-2	A19991CT-ND◆ A19991TR-ND◆	4.41 154.25/7,000	20.20	640252-2
7	Brass, Tin Plated, 6.5A	A31397-ND◆	.32	6.31	3-640707-1	A31394CT-ND◆ A31394TR-ND◆	5.50 165.06/6,000	25.22	3-350980-1
	Brass, Pre-Tin Plated, 6.5A	—	—	—	—	A24203CT-ND◆ A24203TR-ND◆	4.41 132.21/6,000	20.20	350980-2
	Brass, Gold Plated, 6.5A	A24205-ND◆	.42	9.52	770258-1	A24205CT-ND◆ A24205TR-ND◆	26.78 803.25/6,000	122.72	350980-3
8	Phosphor Bronze, Tin Plated, Hooded, 10A	A19993-ND	.34	6.79	770522-1	—	—	—	—
	Phosphor Bronze, Tin Plated, Hooded, 10A	A32533-ND◆	.32	6.35	3-770522-1	—	—	—	—
	Phosphor Bronze, Tin Plated, Hooded, 10A	—	—	—	—	A31398CT-ND◆ A31398TR-ND◆	6.05 166.32/5,500	27.72	3-770476-1
	Phosphor Bronze, Gold Plated, Hooded, 10A	A24208-ND◆	.34	7.61	770522-2	A24208CT-ND◆ A24208TR-ND◆	17.21 473.39/5,500	78.90	770476-2

◆ *RoHS Compliant*

Fig.	Description	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
SL-156 Keying Plugs and Pins — RoHS Compliant							
—	Plug, Keying	—	—	A19994-ND	.30	2.24	640254-1
—	Pin, Keying	—	—	A19995-ND	.29	2.41	640255-1
Accessories, .156” (3.96mm) Centers — RoHS Compliant							
9	Closed End Strain Relief Covers, White	2	.312 (7.92)	A19740-ND	.43	9.74	643067-2
		3	.468 (11.89)	A19741-ND	.49	10.93	643067-3
		4	.624 (15.85)	A19742-ND	1.38	31.11	643067-4
		5	.780 (19.81)	A19743-ND	1.39	31.22	643067-5
		6	.936 (23.77)	A19744-ND	1.39	31.33	643067-6
		7	1.092 (27.74)	A19745-ND	1.40	31.44	643067-7
		8	1.248 (31.70)	A19746-ND	.51	11.37	643067-8
		10	1.560 (39.62)	A19748-ND	1.41	31.77	1-643067-0
		11	1.716 (43.59)	A19749-ND	1.52	34.20	1-643067-1
		12	1.872 (47.55)	A19750-ND	1.42	31.99	1-643067-2
		13	2.028 (51.51)	A24108-ND	1.36	30.50	1-643067-3
		17	2.652 (67.36)	A24109-ND	1.45	32.55	1-643067-7
10	Closed End Dust Covers, White	2	—	A19760-ND	.30	3.70	640551-2
		3	—	A19761-ND	.31	4.62	640551-3
		4	—	A19762-ND	.31	5.53	640551-4
10	Closed End Dust Covers, White	5	—	A19763-ND	.31	6.44	640551-5
		6	—	A19764-ND	.33	7.35	640551-6
		7	—	A19765-ND	.37	8.27	640551-7
		8	—	A19766-ND	.41	9.17	640551-8
		9	—	A19767-ND	.45	10.09	640551-9
		10	—	A19768-ND	.49	11.00	1-640551-0
		11	—	A19769-ND	.53	11.82	1-640551-1
		12	—	A19770-ND	.56	12.60	1-640551-2
11	Feed-Thru Strain Relief Covers, White	2	.312 (7.92)	A19780-ND	.31	6.88	643071-2
		3	.468 (11.89)	A19781-ND	.46	10.33	643071-3
		4	.624 (15.85)	A19782-ND	.61	13.77	643071-4
		6	.936 (23.77)	A19784-ND	.38	8.44	643071-6
		7	1.092 (27.74)	A19785-ND	1.46	32.77	643071-7
		8	1.248 (31.70)	A19786-ND	.93	20.86	643071-8
		9	1.404 (35.66)	A19787-ND	.97	21.90	643071-9
		10	1.560 (39.62)	A19788-ND	1.52	34.09	1-643071-0
		11	1.716 (43.59)	A19789-ND	1.42	31.88	1-643071-1
		12	1.872 (47.55)	A19790-ND	1.52	34.30	1-643071-2
		15	2.340 (59.44)	A97459-ND	1.54	34.62	1-643071-5
		17	2.652 (67.36)	A26040-ND	1.45	32.55	1-643071-7
12	Feed-Thru Dust Covers, White	3	—	A19801-ND	.31	4.62	640643-3
		4	—	A19802-ND	.31	5.53	640643-4
		5	—	A19803-ND	.31	6.44	640643-5
		6	—	A19804-ND	.30	4.23	640643-6
		7	—	A19805-ND	.37	8.27	640643-7
		8	—	A19806-ND	.31	5.28	640643-8
		9	—	A19807-ND	.45	10.09	640643-9
		10	—	A19808-ND	.49	11.00	1-640643-0
		11	—	A19809-ND	.53	11.82	1-640643-1
		12	—	A19810-ND	.56	12.60	1-640643-2
Keying Plugs — RoHS Compliant							
13	Loose Piece, Flush Used with Keyed Headers	—	—	A19845-ND	.30	3.92	640629-1
14	On Carrier Strip, Flush 10 per Strip	—	—	A19840-ND	1.74	39.16	641623-1
15	Long Nose Used with Staked Post	—	—	A19850-ND	.50	6.11	640630-1
Panel Mount End Caps — RoHS Compliant							
16	Black Nylon	2	—	A19860-ND	.60	13.49	641533-1
17	Black Nylon	3-24	—	A19855-ND	.83	18.67	641440-1
Flat Post Headers, .156” (3.96mm) Centers — RoHS Compliant							
18	Straight Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A1961-ND	.30	4.79	640383-2
		3	.468 (11.89)	A19870-ND	.61	13.83	640383-3
		4	.624 (15.85)	A1962-ND	.43	9.59	640383-4
		5	.780 (19.81)	A19871-ND	.53	11.98	640383-5
		6	.936 (23.77)	A1963-ND	.58	13.07	640383-6
		7	1.092 (27.74)	A19872-ND	.68	15.25	640383-7
		8	1.248 (31.70)	A1964-ND	.77	17.43	640383-8
		9	1.404 (35.66)	A19873-ND	.87	19.61	640383-9
		10	1.560 (39.62)	A1965-ND	.97	21.79	1-640383-0
		11	1.716 (43.59)	A19874-ND	.54	12.13	1-640383-1
		12	1.872 (47.55)	A19875-ND	.59	13.23	1-640383-2
		17	2.652 (67.36)	A26167-ND	2.06	46.30	1-640383-7
18	Straight Post .045” (1.14mm) Round, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A26168-ND	.41	9.22	640384-2
		3	.468 (11.89)	A26169-ND	.32	7.19	640384-3
		4	.624 (15.85)	A24152-ND	.82	18.44	640384-4
		5	.780 (19.81)	A26170-ND	.53	11.98	640384-5
		6	.936 (23.77)	A26171-ND	1.12	25.15	640384-6
		7	1.092 (27.74)	A26172-ND	.68	15.25	640384-7
		8	1.248 (31.70)	A24153-ND	1.49	33.53	640384-8
		9	1.404 (35.66)	A26173-ND	1.68	37.72	640384-9
		10	1.560 (39.62)	A24154-ND	1.86	41.91	1-640384-0
		12	1.872 (47.55)	A26174-ND	1.26	28.44	1-640384-2
19	Right Angle Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A1966-ND	.30	2.41	640385-2
		3	.468 (11.89)	A19876-ND	.31	3.02	640385-3
		4	.624 (15.85)	A1967-ND	.30	4.31	640385-4
		5	.780 (19.81)	A19877-ND	.31	5.61	640385-5
		6	.936 (23.77)	A1968-ND	.31	6.47	640385-6
		7	1.092 (27.74)	A19878-ND	.31	6.91	640385-7
		8	1.248 (31.70)	A1969-ND	.40	8.97	640385-8
		9	1.404 (35.66)	A19879-ND	1.16	26.14	640385-9
		10	1.560 (39.62)	A1970-ND	.45	10.20	1-640385-0
		11	1.716 (43.59)	A19880-ND	1.43	32.14	1-640385-1
		12	1.872 (47.55)	A19881-ND	.54	12.12	1-640385-2
19	Right Angle Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .175” (4.45mm) Soldertail, White	2	.312 (7.92)	A24155-ND	.30	2.41	644751-2
		3	.468 (11.89)	A24156-ND	.13	3.02	644751-3
		4	.624 (15.85)	A24157-ND	.19	4.31	644751-4
		5	.780 (19.81)	A24158-ND	.25	5.61	644751-5
		6	.936 (23.77)	A24159-ND	.29	6.47	644751-6
		7	1.092 (27.74)	A24160-ND	.31	6.91	644751-7
		8	1.248 (31.70)	A24161-ND	.40	8.97	644751-8
		10	1.560 (39.62)	A24162-ND	.45	10.20	1-644751-0
		12	1.872 (47.55)	A24163-ND	.54	12.12	1-644751-2
Straight Post Headers, .156” (3.96mm) Centers, Friction Lock Header							
20	***RoHS Compliant*** Square Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A1971-ND	.30	2.41	640445-2
		3	.468 (11.89)	A19890-ND	.30	3.02	640445-3
		4	.624 (15.85)	A1972-ND	.30	4.31	640445-4
		5	.780 (19.81)	A19891-ND	.31	5.61	640445-5
		6	.936 (23.77)	A1973-ND	.31	6.47	640445-6
		7	1.092 (27.74)	A19892-ND	.31	6.91	640445-7
		8	1.248 (31.70)	A1974-ND	.40	8.97	640445-8
		9	1.404 (35.66)	A19893-ND	1.16	26.14	640445-9
		10	1.560 (39.62)	A1975-ND	.45	10.20	1-640445-0
		11	1.716 (43.59)	A19894-ND	1.42	31.96	1-640445-1
		12	1.872 (47.55)	A19895-ND	.54	12.12	1-640445-2
20	***RoHS Compliant*** Square Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .175” (4.45mm) Soldertail, White	2	.312 (7.92)	A24164-ND	.13	2.95	644752-2
		3	.468 (11.89)	A24165-ND	.13	3.02	644752-3
		4	.624 (15.85)	A24166-ND	.19	4.31	644752-4
		5	.780 (19.81)	A24167-ND	.25	5.61	644752-5
		6	.936 (23.77)	A24168-ND	.29	6.47	644752-6
		7	1.092 (27.74)	A24169-ND	.31	6.91	644752-7
		8	1.248 (31.70)	A24170-ND	.40	8.97	644752-8
		9	1.404 (35.66)	A26175-ND	1.16	26.14	644752-9
		10	1.560 (39.62)	A24171-ND	.45	10.20	1-644752-0
		12	1.872 (47.55)	A24172-ND	.54	12.12	1-644752-2

(Continued)

MTA .156" (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
20	Square Post .045" (1.14mm) Square, Standard UL94V-0, 30µ Gold Plated, .125" (3.18mm) Soldertail, White	8	1.248 (31.70)	A26181-ND	4.52	101.75	641208-8
20	***RoHS Compliant*** Square Post .045" (1.14mm) Square, Standard UL94V-0, 30µ Gold Plated, .125" (3.18mm) Soldertail, White	2	.312 (7.92)	A31676-ND	1.27	28.68	3-641208-2
		3	.468 (11.89)	A31677-ND	1.43	32.24	3-641208-3
		4	.624 (15.85)	A31678-ND	1.87	42.02	3-641208-4
		5	.780 (19.81)	A31679-ND	2.39	53.74	3-641208-5
		6	.936 (23.77)	A31680-ND	2.91	65.47	3-641208-6
		7	1.092 (27.74)	A31681-ND	3.30	74.26	3-641208-7
		8	1.248 (31.70)	A31682-ND	3.82	85.99	3-641208-8
		9	1.404 (35.66)	A31683-ND	4.30	96.74	3-641208-9
		10	1.560 (39.62)	A31684-ND	4.73	106.51	4-641208-0
		11	1.716 (43.59)	A31685-ND	5.21	117.26	4-641208-1
		12	1.872 (47.55)	A31686-ND	5.69	128.01	4-641208-2
		17	2.652 (67.36)	A31687-ND	8.21	184.68	4-641208-7
20	***RoHS Compliant*** Round Post .045" (1.14mm) Square, Standard UL94V-0, Tin Plated, .125" (3.18mm) Soldertail, White	2	.312 (7.92)	A19900-ND	.30	2.41	640388-2
		3	.468 (11.89)	A19901-ND	.31	3.02	640388-3
		4	.624 (15.85)	A19902-ND	.30	4.31	640388-4
		5	.780 (19.81)	A19903-ND	.31	5.61	640388-5
		6	.936 (23.77)	A19904-ND	.31	6.47	640388-6
		7	1.092 (27.74)	A19905-ND	.31	6.91	640388-7
		8	1.248 (31.70)	A19906-ND	.40	8.97	640388-8
		9	1.404 (35.66)	A19907-ND	1.16	26.14	640388-9
		10	1.560 (39.62)	A19908-ND	.45	10.20	1-640388-0
		11	1.716 (43.59)	A19909-ND	2.73	61.48	1-640388-1
		12	1.872 (47.55)	A19910-ND	.54	12.12	1-640388-2
20	***RoHS Compliant*** Round Post .045" (1.14mm) Square, Standard UL94V-0, Tin Plated, .175" (4.45mm) Soldertail, White	2	.312 (7.92)	A24176-ND	.30	2.41	644753-2
		3	.468 (11.89)	A24177-ND	.13	3.02	644753-3
		4	.624 (15.85)	A24178-ND	.19	4.31	644753-4
		5	.780 (19.81)	A24179-ND	.25	5.61	644753-5
		6	.936 (23.77)	A24180-ND	.29	6.47	644753-6
		7	1.092 (27.74)	A24181-ND	.31	6.91	644753-7
		8	1.248 (31.70)	A24182-ND	.40	8.97	644753-8
		10	1.560 (39.62)	A24183-ND	.45	10.20	1-644753-0
		12	1.872 (47.55)	A24184-ND	.54	12.12	1-644753-2

Fig.	Description	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
Right Angle Post Headers, .156" (3.96mm) Centers, Friction Lock Header — RoHS Compliant							
21	Right Angle Post .045" (1.14mm) Square, Front Bend, Standard UL94V-0 Tin-Plated, .125" (3.18mm) Soldertail, White	2	.312 (7.92)	A1976-ND	.43	9.59	640389-2
		3	.468 (11.89)	A19920-ND	.32	7.28	640389-3
		4	.624 (15.85)	A1977-ND	.85	19.17	640389-4
		5	.780 (19.81)	A19921-ND	1.07	23.97	640389-5
		6	.936 (23.77)	A1978-ND	1.16	26.14	640389-6
		7	1.092 (27.74)	A19922-ND	1.36	30.50	640389
		8	1.248 (31.70)	A1979-ND	1.55	34.86	640389-8
		9	1.404 (35.66)	A19923-ND	1.74	39.22	640389-9
		10	1.560 (39.62)	A1980-ND	1.94	43.57	1-640389-0
		11	1.716 (43.59)	A19924-ND	2.13	47.93	1-640389-1
		12	1.872 (47.55)	A19925-ND	2.32	52.29	1-640389-2
21	Right Angle Post .045" (1.14mm) Square, Front Bend, Standard UL94V-0, 30µ Gold Plated, .125" (3.18mm) Soldertail, White	2	.312 (7.92)	A31688-ND	1.19	26.71	3-641210-2
		3	.468 (11.89)	A31689-ND	1.65	37.13	3-641210-3
		4	.624 (15.85)	A31690-ND	2.13	47.88	3-641210-4
		5	.780 (19.81)	A31691-ND	2.56	57.65	3-641210-5
		6	.936 (23.77)	A31692-ND	3.13	70.35	3-641210-6
		8	1.248 (31.70)	A31693-ND	4.00	89.90	3-641210-8
		9	1.404 (35.66)	A31694-ND	4.43	99.67	3-641210-9
		10	1.560 (39.62)	A31695-ND	4.70	105.83	4-641210-0
		12	1.872 (47.55)	A31696-ND	5.95	133.87	4-641210-2
22	Right Angle Post .045" (1.14mm) Square, Rear Bend, Standard UL94V-0, Tin-Plated, .125" (3.18mm) Soldertail, White	2	—	A19930-ND	.82	18.44	640387-2
		3	—	A19931-ND	.64	14.38	640387-3
		4	—	A19932-ND	.85	19.17	640387-4
		5	—	A19933-ND	1.07	23.97	640387-5
		6	—	A19934-ND	.59	13.23	640387-6
		7	—	A19935-ND	1.36	30.50	640387-7
		8	—	A19936-ND	1.55	34.86	640387-8
		9	—	A19937-ND	1.74	39.22	640387-9
		10	—	A19938-ND	1.94	43.57	1-640387-0
		11	—	A19939-ND	2.13	47.93	1-640387-1
		12	—	A19940-ND	2.32	52.29	1-640387-2

2-Position, Low Profile Post Shunts

Material: • **Housing:** Glass-filled thermoplastic, 94V-0 rated • **Contact:** Beryllium copper or phosphor bronze • **Finish:** (50µ) nickel with gold plate in contact area or tin plate overall

Fig. 1

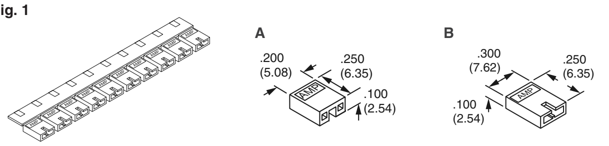

Fig. 2

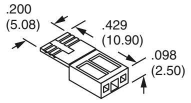

Fig. 3

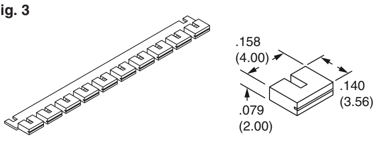

Fig.	Description	Housing Color	Digi-Key Part No.	Pricing		AMP Part No.
				10	50	
Economy, .100 (2.54mm) Centerline						
1A	Strip of 10, Gold Flash, (5µ) over Nickel	Black	A26228-ND	1.15	4.58	382811-8
	Strip of 10, Gold Plate, (15µ) over Nickel	Blue	A26226-ND	4.81	19.25	382811-2
	Strip of 10, Gold Plate, (15µ) over Nickel	Black	A26227-ND	1.25	5.01	382811-6
	Strip of 10, Gold Plate, (15µ) over Nickel	Red	A26230-ND	1.75	7.01	382811-9
	Loose Piece, Gold Plate, (15µ) over Nickel	Black	A26231-ND	4.30	17.20	1-382811-6
	Strip of 10, Tin Plate, (100µ) over Nickel	Black	A31697-ND	1.22	4.86	2-382811-1
Standard Housing, .200 (5.08mm) Centerline						
1B	Strip of 10, Gold Plate, (15µ) over Nickel	Black	A26232-ND	4.94	19.77	531230-2
	Strip of 10, Gold Plate, (30µ) over Nickel	Black	A26233-ND	5.70	22.82	531230-3
	Strip of 10, Tin Plate, (100µ) over Nickel	Black	A31698-ND	4.69	18.74	531230-4
Handle, .100 (2.54mm) Centerline						
2	Open Top & Gold Plate, (30µ) over Nickel	Black	A26242-ND	1.59	6.35	881545-2
	Open Top & Tin Plate, (100µ) over Nickel	Black	A26853-ND	2.31	9.24	4-881545-2
2mm Mini-Shunt, .079 (2.00mm) Centerline						
3	Strip of 10, Gold Plate, (15µ) over Nickel	Black	A26244-ND	3.41	13.63	382575-2

Economy Power (EP) Wire-to-Board Connector System

Features: • .156 (3.96) and .312 (7.92) centerlines • Positive locking • Vertical headers are end-to-end stackable • UL File No. E28476 • CSA File No. LR7189 • Use .156 (3.96) receptacles for .312 (7.92) headers

Specifications: • **Voltage Rating:** 250V VAC • **Current Rating:** 8 amp maximum (1 pos.); 7.5 amp maximum (2 ~ 11 position) • 22 - 18AWG • **Contacts:** Phosphor Bronze/Tin • **Durability:** 50 mating and unmating cycles • **Operating Temperature:** -25°C ~ 105°C

Dimensions in mm

Fig. 1

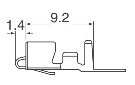

Fig. 2

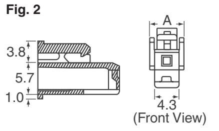

Fig. 3

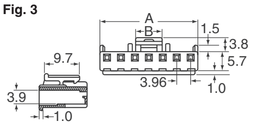

Fig. 4

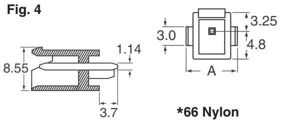

Fig. 5

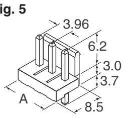

Fig. 6

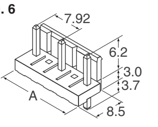

Fig.	Description	Digi-Key Part No.	Loose Pc. Pricing		AMP Part No.	Digi-Key Part No.	T & R Pricing	AMP Part No.
			1	25			4,000	
1	Contact	A30499-ND◆	.28	3.24	1318912-1	A30499TR-ND◆	79.96/M	1123721-1

Fig.	Dimensions		No. of Positions	Digi-Key Part No.	Pricing		AMP Part No.
	A	B			1	25	
Plug Housing (66 Nylon, UL94V-0, Natural) — RoHS Compliant							
2	6.2	—	1	A30525-ND	.51	11.58	1-1123823-1
3	7.86	3.60	2	A30501-ND	.28	2.62	1-1123722-2
	11.82	7.50	3	A30502-ND	.35	3.77	1-1123722-3
	15.78	7.50	4	A30503-ND	.29	4.33	1-1123722-4
	19.74	7.50	5	A30504-ND	.29	5.74	1-1123722-5
	23.70	7.50	6	A30505-ND	.30	6.84	1-1123722-6
	27.66	7.50	7	A30506-ND	.35	7.96	1-1123722-7
	31.62	7.50	8	A30507-ND	.40	9.06	1-1123722-8
	35.58	7.50	9	A30508-ND	.47	10.54	1-1123722-9
	39.54	7.50	10	A30509-ND	.53	12.06	1-1123722-0
	43.50	7.50	11	A30510-ND	.64	14.39	1-1123722-1
Headers (Glass Reinforced PBT, UL94V-0, Natural)							
4	6.2	—	1	A30708-ND◆	.60	13.45	1-1123824-1
5	7.86	—	2	A30511-ND◆	.14	3.09	1-1318300-2
	11.82	—	3	A30512-ND◆	.19	4.38	1-1318300-3
	15.78	—	4	A30513-ND◆	.26	5.94	1-1318300-4
	19.74	—	5	A30514-ND◆	.29	6.48	1-1318300-5
	23.70	—	6	A30515-ND◆	.32	7.30	1-1318300-6
	27.66	—	7	A30516-ND◆	.36	8.11	1-1318300-7
	31.62	—	8	A30517-ND◆	.39	8.79	1-1318300-8
	35.58	—	9	A30518-ND	.56	12.55	1-1318300-9
	39.54	—	10	A30519-ND◆	.48	10.87	1-1318300-0
	43.50	—	11	A30520-ND◆	.64	14.34	1-1318300-1
6	11.82	—	2	A30521-ND	.32	7.24	1-1318301-2
	19.74	—	3	A30522-ND	.27	6.13	1-1318301-3
	27.66	—	4	A30523-ND◆	.33	7.37	1-1318301-4
	35.58	—	5	A30524-ND	.33	7.37	1-1318301-5
Tool							
Hand Crimp Tool, EP				A30527-ND	551.57	—	91579-1

◆ ***RoHS Compliant***

molex®

Micro-Fit 3.0™ Connectors

Digi-Reel®

Features: • Fully isolated contacts • Fully polarized to mating receptacle • Integral pull tabs for ease in unmating **Electrical:** 250V **Current:** 5.0A maximum **Contact Resistance:** 10mΩ maximum **Dielectric Withstanding Voltage:** 1500VAC **Insulation Resistance:** 1,000MΩ minimum **Physical: Housing:** UL94V-0 Brass **Plating:** Tin or Gold

BMI Features and Benefits:
Connectors float in panel cutout up to 1.27mm (.050") in any direction. Use standard Micro-Fit terminals. Innovative panel mounting design holds connectors firmly in place. Fully isolated contacts prevent terminal damage. Fully polarized to completely prevent mismating.

Fig. 1

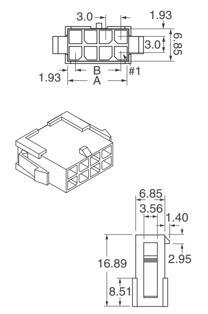

Fig. 2

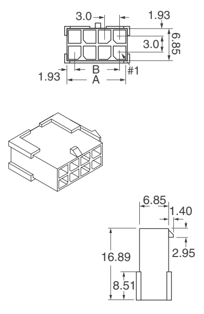

Fig. 3

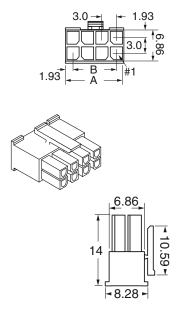

Fig. 4

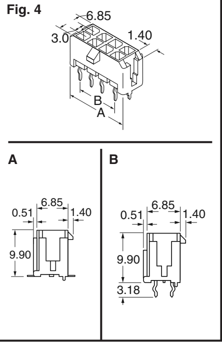

Fig. 5

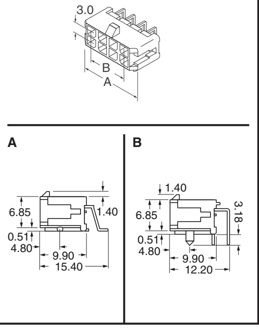

Fig. 6 – Blind Mate

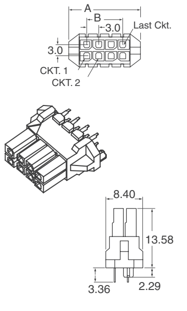

Fig.	Cir-cuits	Dimensions - mm		Plating	Digi-Key Part No.	Price Each			Molex Part No.
		A	B			1	10	100	
Plug Housing — Panel Mount (uses male terminal)									
1	2	3.85	—	—	WM1777-ND◆	.48	.43	.29	43020-0200
	4	6.85	3.00		WM1778-ND◆	.56	.50	.33	43020-0400
	6	9.85	6.00		WM1779-ND◆	.67	.60	.40	43020-0600
	8	12.85	9.00		WM1780-ND◆	.77	.68	.46	43020-0800
	10	15.85	12.00		WM1781-ND◆	.89	.79	.53	43020-1000
	12	18.85	15.00	—	WM1782-ND◆	1.05	.93	.63	43020-1200
	14	21.85	18.00		WM2483-ND◆	1.24	1.10	.74	43020-1400
	16	24.85	21.00		WM2484-ND◆	1.43	1.27	.85	43020-1600
	18	27.85	24.00		WM2485-ND◆	1.61	1.42	.95	43020-1800
	20	30.85	27.00		WM2486-ND◆	1.79	1.58	1.06	43020-2000
	22	33.85	30.00	—	WM2487-ND	1.96	1.74	1.16	43020-2200
	24	36.85	33.00		WM2488-ND◆	2.15	1.90	1.27	43020-2400
Plug Housing — Free Hanging (uses male terminal) — RoHS Compliant									
2	2	3.86	—	—	WM2761-ND	.43	.38	.26	43020-0201
	4	6.85	3.00		WM2772-ND	.50	.45	.30	43020-0401
	6	9.85	6.00		WM2762-ND	.60	.54	.36	43020-0601
	8	12.85	9.00		WM2763-ND	.69	.61	.41	43020-0801
	10	15.85	12.00		WM2764-ND	.80	.71	.47	43020-1001
	12	18.85	15.00	—	WM2765-ND	.94	.84	.56	43020-1201
	14	21.85	18.00		WM2766-ND	1.11	.98	.66	43020-1401
	16	24.85	21.00		WM2767-ND	1.28	1.13	.76	43020-1601
	18	27.85	24.00		WM2768-ND	1.44	1.27	.85	43020-1801
	20	30.85	27.00		WM2769-ND	1.60	1.41	.94	43020-2001
	22	33.85	30.00	—	WM2770-ND	1.75	1.55	1.04	43020-2201
	24	36.85	33.00		WM2771-ND	1.92	1.70	1.13	43020-2401
Receptacle Housing (uses female terminal) — RoHS Compliant									
3	2	3.85	—	—	WM1783-ND	.48	.43	.29	43025-0200
	4	6.85	3.00		WM1784-ND	.56	.50	.33	43025-0400
	6	9.85	6.00		WM1785-ND	.67	.60	.40	43025-0600
	8	12.85	9.00		WM1786-ND	.77	.68	.46	43025-0800
	10	15.85	12.00		WM1787-ND	.89	.79	.53	43025-1000
	12	18.85	15.00	—	WM1788-ND	1.05	.93	.63	43025-1200
	14	21.85	18.00		WM2489-ND	1.24	1.10	.74	43025-1400
	16	24.85	21.00		WM2490-ND	1.43	1.27	.85	43025-1600
	18	27.85	24.00		WM2491-ND	1.61	1.42	.95	43025-1800
	20	30.85	27.00		WM2492-ND	1.79	1.58	1.06	43025-2000
	22	33.85	30.00	—	WM2493-ND	1.96	1.74	1.16	43025-2200
	24	36.85	33.00		WM2494-ND	2.15	1.90	1.27	43025-2400
Vertical Header — Through-Hole with Offset Terminal Retention									
4B	2	6.65	—	Tin	WM1789-ND◆	.93	.82	.55	43045-0212
	4	9.65	3.00		WM1790-ND◆	1.29	1.14	.76	43045-0412
	6	12.65	6.00		WM1791-ND◆	1.63	1.45	.97	43045-0612
	8	15.65	9.00		WM1792-ND◆	1.98	1.76	1.17	43045-0812
	10	18.65	12.00		WM1793-ND◆	2.32	2.06	1.37	43045-1012
	12	21.65	15.00	Tin	WM1794-ND◆	2.66	2.36	1.57	43045-1212
	14	24.65	18.00		WM4711-ND◆	3.02	2.67	1.78	43045-1412
	16	27.65	21.00		WM4712-ND◆	3.36	2.97	1.98	43045-1612
	18	30.65	24.00		WM4713-ND◆	3.78	3.34	2.23	43045-1812
	20	33.65	27.00		WM4714-ND◆	4.20	3.71	2.48	43045-2012
	22	36.65	30.00	Tin	WM4715-ND◆	4.62	4.08	2.72	43045-2212
	24	39.65	33.00		WM4716-ND◆	5.04	4.45	2.97	43045-2412
	2	6.65	—	Gold, 30µ"	WM1795-ND◆	1.47	1.30	.87	43045-0214
	4	9.65	3.00		WM1796-ND◆	2.03	1.79	1.20	43045-0414
	6	12.65	6.00		WM1797-ND◆	2.58	2.28	1.52	43045-0614
	8	15.65	9.00		WM1798-ND◆	3.12	2.76	1.84	43045-0814
	10	18.65	12.00		WM1799-ND◆	3.67	3.24	2.16	43045-1014
	12	21.65	15.00	Gold	WM1800-ND◆	4.21	3.72	2.48	43045-1214
	14	24.65	18.00		WM4717-ND◆	4.76	4.21	2.81	43045-1414
	16	27.65	21.00		WM4718-ND◆	5.29	4.67	3.12	43045-1614
	18	30.65	24.00		WM4719-ND◆	5.95	5.26	3.51	43045-1814
	20	33.65	27.00		WM4720-ND◆	7.35	6.49	4.33	43045-2014
	22	36.65	30.00	Gold	WM4721-ND	7.28	6.43	4.29	43045-2214
	24	39.65	33.00		WM4722-ND◆	7.94	7.01	4.67	43045-2414

Fig.	Cir-cuits	Dimensions - mm		Plating	Digi-Key Part No.	Price Each			Molex Part No.
		A	B			1	10	100	
Vertical Header — SMT with Fitting Nails									
4A	2	6.65	—	Tin	WM1801-ND◆	2.97	2.62	1.75	43045-0218
	4	9.65	3.00		WM1802-ND◆	3.44	3.04	2.03	43045-0418
	6	12.65	6.00		WM1803-ND◆	3.90	3.44	2.30	43045-0618
	8	15.65	9.00		WM1804-ND◆	4.47	3.95	2.63	43045-0818
	10	18.65	12.00		WM1805-ND◆	4.92	4.35	2.90	43045-1018
	12	21.65	15.00	Gold, 30µ"	WM1806-ND◆	5.37	4.75	3.17	43045-1218
	2	6.65	—		WM1807-ND◆	3.67	3.24	2.16	43045-0220
	4	9.65	3.00		WM1808-ND◆	4.42	3.90	2.60	43045-0420
	6	12.65	6.00		WM1809-ND◆	5.15	4.55	3.03	43045-0620
	8	15.65	9.00		WM1810-ND	5.98	5.28	3.52	43045-0820-P
	10	18.65	12.00	Gold, 30µ"	WM1811-ND◆	6.71	5.92	3.95	43045-1020
	12	21.65	15.00		WM1812-ND◆	7.42	6.55	4.37	43045-1220
Vertical Header — SMT with Fitting Nails — RoHS Compliant									
4A	2	6.65	—	Gold, 15µ"	WM2660CT-ND*	2.92	2.58	1.72	43045-0219
	2	6.65	—		WM2660TR-ND†	240.60/200			43045-0219
	4	9.65	3.00		WM2661CT-ND*	3.45	3.05	2.03	43045-0419
	4	9.65	3.00		WM2661TR-ND†	284.20/200			43045-0419
	6	12.65	6.00		WM2662CT-ND*	3.97	3.51	2.34	43045-0619
	6	12.65	6.00	Gold, 15µ"	WM2662TR-ND†	326.80/200			43045-0619
	8	15.65	9.00		WM2663CT-ND*	4.58	4.04	2.70	43045-0819
	8	15.65	9.00		WM2663TR-ND†	377.00/200			43045-0819
	10	18.65	12.00		WM2664CT-ND*	5.10	4.50	3.00	43045-1019
	10	18.65	12.00		WM2664TR-ND†	419.60/200			43045-1019
	12	21.65	15.00	Gold, 15µ"	WM2665CT-ND*	5.59	4.94	3.30	43045-1219
	12	21.65	15.00		WM2665TR-ND†	460.80/200			43045-1219
	14	24.65	18.00		WM2666CT-ND*	6.12	5.40	3.60	43045-1419
	14	24.65	18.00		WM2666TR-ND†	503.80/200			43045-1419
	16	27.65	21.00		WM2667CT-ND*	6.62	5.85	3.90	43045-1619
	16	27.65	21.00	Gold, 15µ"	WM2667TR-ND†	545.40/200			43045-1619
	18	30.65	24.00		WM2668CT-ND*	7.37	6.50	4.34	43045-1819
	18	30.65	24.00		WM2668TR-ND†	606.60/200			43045-1819
	20	33.65	27.00		WM2669CT-ND*	7.99	7.06	4.71	43045-2019
	20	33.65	27.00		WM2669TR-ND†	658.20/200			43045-2019
	22	36.65	30.00	Gold, 15µ"	WM2670CT-ND*	8.61	7.60	5.07	43045-2219
	22	36.65	30.00		WM2670TR-ND†	709.00/200			43045-2219
	24	39.65	33.00		WM2671CT-ND*	9.24	8.16	5.44	43045-2419
	24	39.65	33.00		WM2671TR-ND†	761.00/200			43045-2419
Vertical Header — Through-Hole — RoHS Compliant									
4B	2	6.65	—	Gold, 15µ"	WM2648-ND	1.16	1.03	.69	43045-0213
	4	9.65	3.00		WM2649-ND	1.61	1.42	.95	43045-0413
	6	12.65	6.00		WM2650-ND	2.04	1.81	1.21	43045-0613
	8	15.65	9.00		WM2651-ND	2.48	2.19	1.46	43045-0813
	10	18.65	12.00		WM2652-ND	2.91	2.58	1.72	43045-1013
	12	21.65	15.00	Gold, 15µ"	WM2653-ND	3.34	2.95	1.97	43045-1213
	14	24.65	18.00		WM2654-ND	3.78	3.34	2.23	43045-1413
	16	27.65	21.00		WM2655-ND	4.20	3.71	2.48	43045-1613
	18	30.65	24.00		WM2656-ND	4.73	4.18	2.79	43045-1813
	20	33.65	27.00		WM2657-ND	5.25	4.64	3.09	43045-2013
	22	36.65	30.00	Gold, 15µ"	WM2658-ND	5.78	5.10	3.40	43045-2213
	24	39.65	33.00		WM2659-ND	6.31	5.57	3.71	43045-2413
Right Angle Header — Through-Hole with PCB Pegs — RoHS Compliant									
5B	2	6.65	—	Tin	WM1813-ND	1.27	1.12	.75	43045-0200
	4	9.65	3.00		WM1814-ND	1.56	1.38	.92	43045-0400
	6	12.65	6.00		WM1815-ND	1.97	1.74	1.16	43045-0600
	8	15.65	9.00		WM1816-ND	2.40	2.12	1.42	43045-0800
	10	18.65	12.00		WM1817-ND	2.81	2.49	1.66	43045-1000
	12	21.65	15.00	Tin	WM1818-ND	3.23	2.85	1.91	43045-1200
	14	24.65	18.00		WM4723-ND	3.65	3.22	2.15	43045-1400
	16	27.65	21.00		WM4724-ND	4.07	3.60	2.40	43045-1600
	18	30.65	24.00		WM4725-ND	4.58	4.04	2.70	43045-1800
	20	33.65	27.00		WM4726-ND	5.09	4.50	3.00	43045-2000
	22	36.65	30.00	Tin	WM4727-ND	5.60	4.94	3.30	43045-2200
	24	39.65	33.00		WM4728-ND	6.11	5.40	3.60	43045-2400

* Cut Tape † Tape and Reel ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Fig. 7 – Blind Mate

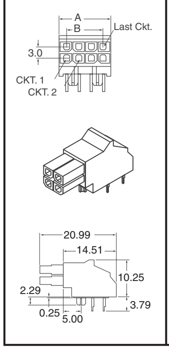

Fig. 8 – Blind Mate

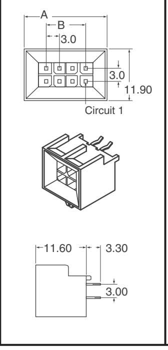

Fig. 9 – Blind Mate

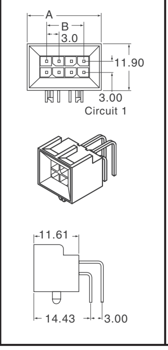

Fig. 10

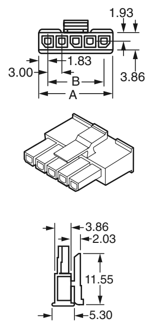

Fig. 11

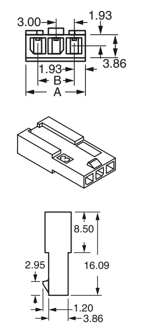

Fig. 12

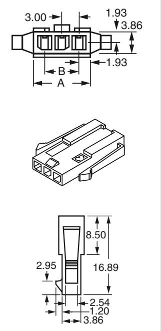

Fig. 13

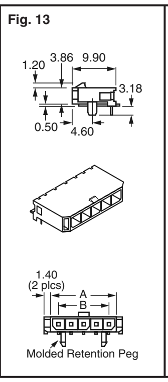

Fig. 14

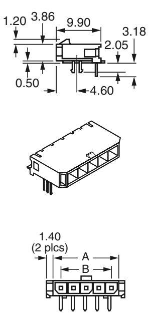

Fig.	Cir-cuits	Dimensions - mm		Plating	Digi-Key Part No.	Price Each			Molex Part No.
		A	B			1	10	100	
5B	2	6.65	—	Gold, 30µ"	WM1819-ND	1.79	1.58	1.06	43045-0202
	4	9.65	3.00		WM1820-ND	2.45	2.17	1.45	43045-0402
	6	12.65	6.00		WM1821-ND	3.10	2.74	1.83	43045-0602
	8	15.65	9.00		WM1822-ND	3.78	3.34	2.23	43045-0802
	10	18.65	12.00		WM1823-ND	4.43	3.91	2.61	43045-1002
	12	21.65	15.00	Gold, 30µ"	WM1824-ND	5.70	5.03	3.36	43045-1202
	14	24.65	18.00		WM4729-ND	5.75	5.07	3.38	43045-1402
	16	27.65	21.00		WM4730-ND	6.41	5.66	3.78	43045-1602
	18	30.65	24.00		WM4731-ND	7.21	6.37	4.25	43045-1802
	20	33.65	27.00		WM4732-ND	8.02	7.08	4.72	43045-2002
	22	36.65	30.00	Gold, 30µ"	WM4733-ND	8.82	7.79	5.19	43045-2202
	24	39.65	33.00		WM4734-ND	9.63	8.50	5.67	43045-2402
Right Angle Header — Through-Hole with PCB Clips — RoHS Compliant									
5B	2	6.65	—	Tin	WM2672-ND	1.46	1.29	.86	43045-0221
	4	9.65	3.00		WM2673-ND	1.93	1.70	1.14	43045-0421
	6	12.65	6.00		WM2674-ND	2.17	1.92	1.28	43045-0621
	8	15.65	9.00		WM2675-ND	2.60	2.30	1.53	43045-0821
	10	18.65	12.00		WM2676-ND	3.32	2.94	1.96	43045-1021
	12	21.65	15.00		WM2677-ND	3.79	3.35	2.23	43045-1221
Right Angle Header — SMT with Fitting Nails — RoHS Compliant									
5A	2	6.65	—	Tin	WM1825-ND	3.01	2.66	1.78	43045-0209
	4	9.65	3.00		WM1826-ND	3.65	3.22	2.15	43045-0409
	6	12.65	6.00		WM1827-ND	4.23	3.73	2.49	43045-0609
	8	15.65	9.00		WM1828-ND	4.95	4.37	2.92	43045-0809
	10	18.65	12.00		WM1829-ND	5.54	4.89	3.26	43045-1009
	12	21.65	15.00		WM1830-ND	6.11	5.39	3.60	43045-1209
	2	6.65	—	Gold, 30µ"	WM1831-ND	3.92	3.46	2.31	43045-0211
	4	9.65	3.00		WM1832-ND	4.89	4.32	2.88	43045-0411
	6	12.65	6.00		WM1833-ND	5.80	5.12	3.42	43045-0611
	8	15.65	9.00		WM1834-ND	6.88	6.07	4.05	43045-0811
	10	18.65	12.00		WM1835-ND	7.78	6.87	4.58	43045-1011
	12	21.65	15.00		WM1836-ND	8.70	7.68	5.12	43045-1211
Right Angle Header — Through-Hole w/PCB Clips — RoHS Compliant									
5B	2	6.65	—	Gold, 15µ"	WM2678-ND	1.62	1.43	.96	43045-0222
	4	9.65	3.00		WM2679-ND	2.36	2.08	1.39	43045-0422
	6	12.65	6.00		WM2680-ND	2.93	2.59	1.73	43045-0622
	8	15.65	9.00		WM2681-ND	3.54	3.12	2.09	43045-0822
	10	18.65	12.00		WM2682-ND	4.11	3.63	2.42	43045-1022
	12	21.65	15.00		WM2683-ND	4.69	4.14	2.76	43045-1222
BMI Vertical Receptacle Header with Friction Pegs (Blind Mate)									
6	4	12.00	3.00	Tin	WM1953-ND	2.40	2.13	1.42	44769-0401
	6	15.00	6.00		WM1954-ND◆	3.05	2.69	1.80	44769-0601
	8	18.00	9.00		WM1955-ND	3.70	3.27	2.18	44769-0801
	10	21.00	12.00		WM1956-ND◆	4.34	3.83	2.56	44769-1001
	12	24.00	15.00		WM1957-ND	4.97	4.39	2.93	44769-1201
	14	27.00	18.00	Tin	WM1958-ND	5.64	4.98	3.32	44769-1401
	16	30.00	21.00		WM1959-ND	6.28	5.54	3.70	44769-1601
	4	12.00	3.00	Gold	WM1960-ND	3.00	2.66	1.77	44769-0402
	6	15.00	6.00		WM1961-ND◆	3.82	3.37	2.25	44769-0602
	8	18.00	9.00		WM1962-ND◆	4.63	4.09	2.73	44769-0802
	10	21.00	12.00		WM1963-ND◆	5.44	4.80	3.21	44769-1002
	12	24.00	15.00		WM1964-ND	6.23	5.50	3.67	44769-1202
	14	27.00	18.00	Gold	WM1965-ND◆	7.05	6.23	4.15	44769-1402
	16	30.00	21.00		WM1966-ND	7.84	6.93	4.62	44769-1602
BMI Right Angle Receptacle Header with Friction Pegs (Blind Mate)									
7	4	6.70	3.00	Tin	WM1981-ND◆	2.90	2.57	1.71	44764-0401
	6	9.70	6.00		WM1982-ND◆	3.67	3.24	2.16	44764-0601
	10	15.70	12.00		WM1984-ND◆	5.25	4.64	3.09	44764-1001
	12	18.70	15.00		WM1985-ND	6.03	5.33	3.55	44764-1201
	14	21.70	18.00		WM1986-ND	6.81	6.01	4.01	44764-1401
	16	24.70	21.00		WM1987-ND	7.24	6.39	4.26	44764-1601
	4	6.70	3.00	Gold	WM1988-ND	3.63	3.20	2.14	44764-0402
	6	9.70	6.00		WM1989-ND	4.60	4.06	2.71	44764-0602
	8	12.70	9.00		WM1990-ND	5.61	4.95	3.30	44764-0802
	10	15.70	12.00		WM1991-ND	6.56	5.80	3.87	44764-1002
7	14	21.70	18.00	Gold	WM1993-ND	8.51	7.51	5.01	44764-1402
	16	24.70	21.00		WM1994-ND	9.50	8.39	5.59	44764-1602
BMI Vertical Header with Polarizing Pegs (Blind Mate)									
8	4	13.00	3.00	Tin	WM1967-ND	1.72	1.52	1.01	44432-0401
	6	16.00	6.00		WM1968-ND◆	2.18	1.93	1.29	44432-0601
	8	19.00	9.00		WM1969-ND◆	2.65	2.34	1.56	44432-0801
	10	22.00	12.00		WM1970-ND◆	3.10	2.74	1.83	44432-1001
	12	25.00	15.00		WM1971-ND	3.55	3.14	2.09	44432-1201
	14	28.00	18.00	Tin	WM1972-ND	4.03	3.56	2.38	44432-1401
	16	31.00	21.00		WM1973-ND	4.48	3.96	2.64	44432-1601
	4	13.00	3.00	Gold	WM1974-ND	2.15	1.90	1.27	44432-0402
	6	16.00	6.00		WM1975-ND◆	2.73	2.41	1.61	44432-0602
	8	19.00	9.00		WM1976-ND◆	3.31	2.92	1.95	44432-0802
	10	22.00	12.00		WM1977-ND	3.89	3.43	2.29	44432-1002
	12	25.00	15.00		WM1978-ND	4.45	3.93	2.62	44432-1202
	14	28.00	18.00	Gold	WM1979-ND	5.04	4.45	2.97	44432-1402
	16	31.00	21.00		WM1980-ND	5.60	4.95	3.30	44432-1602
BMI Right Angle Header (Blind Mate)									
9	4	13.00	3.00	Tin	WM1995-ND◆	2.07	1.83	1.23	44428-0401
	6	16.00	6.00		WM1996-ND	2.62	2.32	1.55	44428-0601
	8	19.00	9.00		WM1997-ND◆	3.20	2.83	1.89	44428-0801
	10	22.00	12.00		WM1998-ND	3.75	3.31	2.21	44428-1001
	12	25.00	15.00		WM1999-ND	4.31	3.81	2.54	44428-1201
	14	28.00	18.00	Tin	WM2025-ND	4.86	4.30	2.87	44428-1401
	16	31.00	21.00		WM2026-ND	5.43	4.79	3.20	44428-1601
	4	13.00	3.00	Gold	WM2027-ND	2.59	2.29	1.53	44428-0402
	6	16.00	6.00		WM2028-ND◆	3.28	2.90	1.94	44428-0602
	8	19.00	9.00		WM2029-ND◆	4.01	3.54	2.36	44428-0802
	10	22.00	12.00		WM2030-ND	4.69	4.14	2.76	44428-1002
	12	25.00	15.00		WM2031-ND	5.38	4.75	3.17	44428-1202
	14	28.00	18.00	Gold	WM2032-ND	6.08	5.37	3.58	44428-1402
	16	31.00	21.00		WM2033-ND◆	6.79	5.99	4.00	44428-1602
Receptacle Housing — RoHS Compliant									
10	2	6.85	3.00	—	WM1845-ND	.48	.43	.29	43645-0200
	3	9.85	6.00		WM1846-ND	.52	.43	.31	43645-0300
	4	12.85	9.00		WM1847-ND	.56	.50	.33	43645-0400
	5	15.85	12.00		WM1848-ND	.62	.55	.37	43645-0500
	6	18.85	15.00		WM1849-ND	.67	.60	.40	43645-0600
	7	21.85	18.00	—	WM2405-ND	.72	.64	.43	43645-0700
	8	24.85	21.00		WM2406-ND	.77	.68	.46	43645-0800
	9	27.85	24.00		WM2407-ND	.83	.74	.50	43645-0900
	10	30.85	27.00		WM2408-ND	.89	.79	.53	43645-1000
	11	33.85	30.00		WM2409-ND	.97	.86	.58	43645-1100
	12	36.85	33.00		WM2410-ND	1.05	.93	.63	43645-1200
Plug Housing without Panel Mounts									
11	2	6.85	3.00	—	WM1855-ND◆	.48	.43	.29	43640-0201
	3	9.85	6.00		WM1856-ND◆	.52	.46	.31	43640-0301
	4	12.85	9.00		WM1857-ND◆	.56	.50	.33	43640-0401
	5	15.85	12.00		WM1858-ND◆	.62	.55	.37	43640-0501
	6	18.85	15.00		WM1859-ND◆	.67	.60	.40	43640-0601
	7	21.85	18.00	—	WM2417-ND◆	.72	.64	.43	43640-0701
	8	24.85	21.00		WM2418-ND	.77	.68	.46	43640-0801
	9	27.85	24.00		WM2419-ND	.83	.74	.50	43640-0901
	10	30.85	27.00		WM2420-ND◆	.89	.79	.53	43640-1001
	11	33.85	30.00		WM2421-ND	.97	.86	.58	43640-1101
	12	36.85	33.00		WM2422-ND	1.05	.93	.63	43640-1201
Plug Housing with Panel Mounts									
12	2	6.85	3.00	—	WM1850-ND◆	.48	.43	.29	43640-0200
	3	9.85	6.00		WM1851-ND◆	.52	.46	.31	43640-0300
	4	12.85	9.00		WM1852-ND◆	.56	.50	.33	43640-0400
	5	15.85	12.00		WM1853-ND◆	.62	.55	.37	43640-0500
	6	18.85	15.00		WM1854-ND◆	.67	.60	.40	43640-0600

* Cut Tape † Tape and Reel ◆ ***RoHS Compliant***

(Continued)

Fig. 15

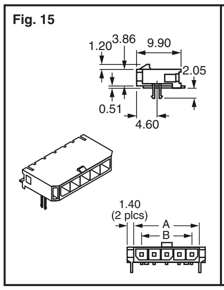

Fig. 16

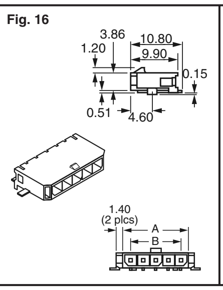

Fig. 17

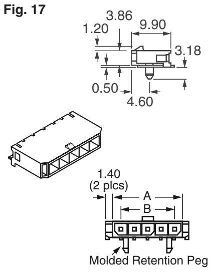

Fig. 18

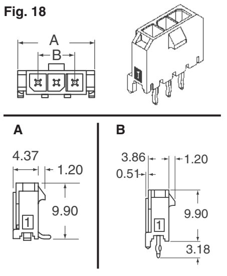

Fig. 19 – Blind Mate

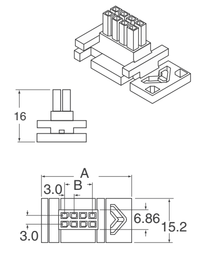

Fig. 20 – Blind Mate

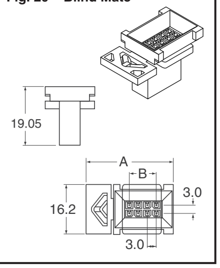

Fig.	Circuits	Dimensions - mm A	B	Plating	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
12	7	21.85	18.00	—	WM2411-ND	.72	.64	.43	43640-0700
	8	24.85	21.00		WM2412-ND◆	.77	.68	.46	43640-0800
	9	27.85	24.00		WM2413-ND	.83	.74	.50	43640-0900
	10	30.85	27.00		WM2414-ND	.89	.79	.53	43640-1000
	11	33.85	30.00		WM2415-ND	.97	.86	.58	43640-1100
	12	36.85	33.00		WM2416-ND	1.05	.93	.63	43640-1200
Right Angle Header									
13	2	6.85	3.00	Tin	WM1860-ND◆	1.13	1.00	.67	43650-0200
	3	9.85	6.00		WM1861-ND◆	1.35	1.19	.80	43650-0300
	4	12.85	9.00		WM1862-ND◆	1.56	1.38	.92	43650-0400
	5	15.85	12.00		WM1863-ND◆	1.76	1.56	1.04	43650-0500
	6	18.85	15.00		WM1864-ND◆	1.97	1.74	1.16	43650-0600
	7	21.85	18.00	Tin	WM2423-ND	2.19	1.93	1.29	43650-0700
	8	24.85	21.00		WM2424-ND◆	2.40	2.12	1.42	43650-0800
	9	27.85	24.00		WM2425-ND	2.61	2.31	1.54	43650-0900
	10	30.85	27.00		WM2426-ND	2.81	2.49	1.66	43650-1000
	11	33.85	30.00		WM2427-ND	3.02	2.67	1.78	43650-1100
	12	36.85	33.00		WM2428-ND	3.23	2.85	1.91	43650-1200
	2	6.85	3.00	Gold	WM1865-ND	1.42	1.26	.84	43650-0201
	3	9.85	6.00		WM1866-ND◆	1.68	1.49	.99	43650-0301
	4	12.85	9.00		WM1867-ND◆	1.94	1.72	1.15	43650-0401
	5	15.85	12.00		WM1868-ND◆	2.21	1.95	1.30	43650-0501
	6	18.85	15.00		WM1869-ND◆	2.46	2.18	1.45	43650-0601
	7	21.85	18.00	Gold	WM2429-ND	2.74	2.42	1.61	43650-0701
	8	24.85	21.00		WM2430-ND◆	3.00	2.66	1.77	43650-0801
	9	27.85	24.00		WM2431-ND	3.26	2.88	1.92	43650-0901
	10	30.85	27.00		WM2432-ND	3.52	3.11	2.07	43650-1001
	11	33.85	30.00		WM2433-ND	3.78	3.34	2.23	43650-1101
	12	36.85	33.00		WM2434-ND	4.04	3.57	2.38	43650-1201
Right Angle Header with Retention Clips									
14	2	6.85	3.00	Tin	WM1870-ND◆	1.33	1.18	.79	43650-0203
	3	9.85	6.00		WM1871-ND	1.73	1.53	1.02	43650-0303
	4	12.85	9.00		WM1872-ND◆	1.75	1.55	1.04	43650-0403
	5	15.85	12.00		WM1873-ND◆	1.96	1.74	1.16	43650-0503
	6	18.85	15.00		WM1874-ND	2.42	2.14	1.43	43650-0603
	7	21.85	18.00	Tin	WM2435-ND	2.39	2.11	1.41	43650-0703
	8	24.85	21.00		WM2436-ND	2.60	2.30	1.53	43650-0803
	9	27.85	24.00		WM2437-ND	2.81	2.48	1.66	43650-0903
	10	30.85	27.00		WM2438-ND	3.01	2.66	1.78	43650-1003
	11	33.85	30.00		WM2439-ND	3.22	2.85	1.90	43650-1103
	12	36.85	33.00		WM2440-ND	3.43	3.03	2.02	43650-1203
	2	6.85	3.00	Gold	WM1875-ND◆	1.62	1.43	.96	43650-0204
	3	9.85	6.00		WM1876-ND◆	1.88	1.66	1.11	43650-0304
	4	12.85	9.00		WM1877-ND◆	2.14	1.89	1.26	43650-0404
	5	15.85	12.00		WM1878-ND◆	2.69	2.38	1.59	43650-0504
	6	18.85	15.00		WM1879-ND	2.66	2.35	1.57	43650-0604
	7	21.85	18.00	Gold	WM2441-ND	3.24	2.86	1.91	43650-0704
	8	24.85	21.00		WM2442-ND	3.17	2.80	1.87	43650-0804
	9	27.85	24.00		WM2443-ND	3.43	3.03	2.02	43650-0904
	10	30.85	27.00		WM2444-ND	3.67	3.25	2.17	43650-1004
	11	33.85	30.00		WM2445-ND	3.93	3.47	2.32	43650-1104
	12	36.85	33.00		WM2446-ND	4.18	3.70	2.47	43650-1204
Right Angle Header — SMT with Retention Clips									
15	2	6.85	3.00	Tin	WM1880-ND◆	2.86	2.53	1.69	43650-0209
	3	9.85	6.00		WM1881-ND	3.18	2.81	1.88	43650-0309-P
	4	12.85	9.00		WM1882-ND	3.50	3.09	2.06	43650-0409
	5	15.85	12.00		WM1883-ND	3.79	3.35	2.23	43650-0509
	6	18.85	15.00		WM1884-ND	4.08	3.60	2.40	43650-0609
	7	21.85	18.00	Tin	WM2447-ND	3.65	3.22	2.15	43650-0709
	8	24.85	21.00		WM2448-ND	3.21	2.84	1.89	43650-0809
	9	27.85	24.00		WM2449-ND◆	4.30	3.80	2.53	43650-0909
	10	30.85	27.00		WM2450-ND	5.39	4.76	3.18	43650-1009
	11	33.85	30.00		WM2451-ND	5.68	5.01	3.35	43650-1109
	12	36.85	33.00		WM2452-ND	5.96	5.26	3.51	43650-1209
	2	6.85	3.00	Gold	WM1885-ND◆	3.26	2.88	1.92	43650-0210-P
	3	9.85	6.00		WM1886-ND	3.65	3.23	2.15	43650-0310
	4	12.85	9.00		WM1887-ND◆	4.04	3.57	2.38	43650-0410-P
	5	15.85	12.00		WM1888-ND◆	4.40	3.89	2.60	43650-0510
	6	18.85	15.00		WM1889-ND◆	4.77	4.21	2.81	43650-0610

Fig.	Circuits	Dimensions - mm A	B	Plating	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
15	7	21.85	18.00	Gold	WM2453-ND	4.37	3.86	2.57	43650-0710
	8	24.85	21.00		WM2454-ND	3.96	3.50	2.33	43650-0810
	9	27.85	24.00		WM2455-ND	5.16	4.56	3.04	43650-0910
	10	30.85	27.00		WM2456-ND	6.35	5.61	3.74	43650-1010
	11	33.85	30.00		WM2457-ND	6.72	5.94	3.96	43650-1110
	12	36.85	33.00		WM2458-ND	7.09	6.26	4.18	43650-1210
Right Angle Header — SMT with Fitting Nails									
16	2	6.85	3.00	Tin	WM1890-ND◆	3.01	2.66	1.78	43650-0212
	3	9.85	6.00		WM1891-ND◆	3.33	2.94	1.96	43650-0312
	4	12.85	9.00		WM1892-ND◆	3.65	3.22	2.15	43650-0412
	5	15.85	12.00		WM1893-ND◆	3.94	3.48	2.32	43650-0512
	6	18.85	15.00		WM1894-ND◆	4.23	3.73	2.49	43650-0612
	7	21.85	18.00	Tin	WM2459-ND	4.59	4.05	2.70	43650-0712
	8	24.85	21.00		WM2460-ND◆	4.95	4.37	2.92	43650-0812
	9	27.85	24.00		WM2461-ND	5.25	4.64	3.09	43650-0912
	10	30.85	27.00		WM2462-ND◆	5.54	4.89	3.26	43650-1012
	11	33.85	30.00		WM2463-ND	5.83	5.15	3.43	43650-1112
	12	36.85	33.00		WM2464-ND◆	6.11	5.39	3.60	43650-1212
	2	6.85	3.00	Gold	WM1895-ND◆	3.41	3.01	2.01	43650-0213
	3	9.85	6.00		WM1896-ND◆	3.80	3.36	2.24	43650-0313
	4	12.85	9.00		WM1897-ND◆	4.19	3.70	2.47	43650-0413-P
	5	15.85	12.00		WM1898-ND◆	4.55	4.02	2.68	43650-0513
	6	18.85	15.00		WM1899-ND◆	4.92	4.34	2.90	43650-0613
	7	21.85	18.00	Gold	WM2465-ND	5.36	4.73	3.16	43650-0713
	8	24.85	21.00		WM2466-ND	5.80	5.12	3.42	43650-0813
	9	27.85	24.00		WM2467-ND	6.15	5.43	3.62	43650-0913
	10	30.85	27.00		WM2468-ND◆	6.50	5.74	3.83	43650-1013-P
	11	33.85	30.00		WM2469-ND	6.87	6.07	4.05	43650-1113
	12	36.85	33.00		WM2470-ND◆	7.24	6.39	4.27	43650-1213
Right Angle Header — SMT with Retention Pegs									
17	3	9.85	6.00	Tin	WM1901-ND	2.69	2.37	1.59	43650-0306
	6	18.85	15.00		WM1904-ND	3.47	3.06	2.04	43650-0606
Vertical Header — Through-Hole, Wire-to-Board									
18B	2	9.65	3.00	Tin	WM1917-ND◆	.93	.82	.55	43650-0215
	3	12.65	6.00		WM1918-ND◆	1.27	1.12	.75	43650-0315
	4	15.65	9.00		WM1919-ND◆	1.29	1.14	.76	43650-0415
	5	18.64	12.00		WM1920-ND◆	1.46	1.29	.86	43650-0515
	6	21.64	15.00		WM1921-ND◆	1.63	1.45	.97	43650-0615
	7	24.64	18.00	Tin	WM2471-ND	1.81	1.60	1.07	43650-0715
	8	27.64	21.00		WM2472-ND◆	1.98	1.76	1.17	43650-0815
	9	30.63	24.00		WM2473-ND◆	2.16	1.91	1.27	43650-0915
	10	33.66	27.00		WM2474-ND◆	2.32	2.06	1.37	43650-1015
	11	36.65	30.00		WM2475-ND	2.50	2.21	1.47	43650-1115
	12	39.65	33.00		WM2476-ND	2.66	2.36	1.57	43650-1215
	2	9.65	3.00	Gold, 15µ"	WM1922-ND◆	1.16	1.03	.69	43650-0216
	3	12.65	6.00		WM1923-ND◆	1.39	1.23	.82	43650-0316
	4	15.65	9.00		WM1924-ND◆	1.61	1.42	.95	43650-0416
	5	18.64	12.00		WM1925-ND◆	1.83	1.62	1.08	43650-0516
	6	21.64	15.00		WM1926-ND◆	2.04	1.81	1.21	43650-0616
	7	24.64	18.00	Gold	WM2477-ND◆	2.27	2.00	1.34	43650-0716
	8	27.64	21.00		WM2478-ND◆	2.48	2.19	1.46	43650-0816
	9	30.63	24.00		WM2479-ND◆	2.70	2.38	1.59	43650-0916
	10	33.66	27.00		WM2480-ND◆	2.91	2.58	1.72	43650-1016
	11	36.65	30.00		WM2481-ND	3.13	2.77	1.85	43650-1116
	12	39.65	33.00		WM2482-ND◆	3.35	2.96	1.98	43650-1216
Vertical Header — SMT — RoHS Compliant									
18A	2	9.65	3.00	Tin	WM2627CT-ND*	2.78	2.46	1.64	43650-0224
	2	9.65	3.00		WM2627TR-ND†	229.00/200			43650-0224
	3	12.65	6.00		WM2628CT-ND*	3.01	2.66	1.77	43650-0324
	3	12.65	6.00		WM2628TR-ND†	247.60/200			43650-0324
	4	15.65	9.00		WM2629CT-ND*	3.22	2.85	1.90	43650-0424
	4	15.65	9.00	Tin	WM2629TR-ND†	265.60/200			43650-0424
	5	18.64	12.00		WM2630CT-ND*	3.44	3.04	2.03	43650-0524
	5	18.64	12.00		WM2630TR-ND†	283.60/200			43650-0524
	6	21.64	15.00		WM2631CT-ND*	3.66	3.23	2.16	43650-0624
	6	21.64	15.00		WM2631TR-ND†	301.00/200			43650-0624

* Cut Tape † Tape and Reel ◆ *RoHS Compliant*

(Continued)

Micro-Fit 3.0™ Connectors *(Cont.)*

Fig.	Cir-cuits	Dimensions - mm A	B	Plating	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
18A	7	24.64	18.00	Tin	WM2632CT-ND*	3.93	3.47	2.31	43650-0724
	7	24.64	18.00		WM2632TR-ND†	323.40/200			43650-0724
	8	27.64	21.00		WM2633CT-ND*	4.19	3.70	2.47	43650-0824
	8	27.64	21.00		WM2633TR-ND†	345.20/200			43650-0824
	9	30.63	24.00		WM2634CT-ND*	4.40	3.89	2.60	43650-0924
	9	30.63	24.00	Tin	WM2634TR-ND†	362.60/200			43650-0924
	10	33.66	27.00		WM2635CT-ND*	4.62	4.08	2.72	43650-1024
	10	33.66	27.00		WM2635TR-ND†	380.20/200			43650-1024
	11	36.65	30.00		WM2636CT-ND*	4.83	4.26	2.84	43650-1124
	11	36.65	30.00		WM2636TR-ND†	397.60/200			43650-1124
	12	39.65	33.00	Tin	WM2637CT-ND*	5.04	4.45	2.97	43650-1224
	12	39.65	33.00		WM2637TR-ND†	415.00/200			43650-1224
	2	9.65	3.00	Gold, 15µ”	WM2638CT-ND*	3.54	3.13	2.09	43650-0225
	2	9.65	3.00		WM2638TR-ND†	291.80/200			43650-0225
	3	12.65	6.00		WM2639CT-ND*	3.75	3.32	2.21	43650-0325
	3	12.65	6.00		WM2639TR-ND†	309.20/200			43650-0325
	4	15.65	9.00		WM2640CT-ND*	3.62	3.20	2.14	43650-0425
	4	15.65	9.00	Gold,15µ”	WM2640TR-ND†	298.40/200			43650-0425
	5	18.64	12.00		WM2641CT-ND*	4.42	3.90	2.60	43650-0525
	5	18.64	12.00		WM2641TR-ND†	363.80/200			43650-0525
	6	21.64	15.00		WM2642CT-ND*	4.17	3.68	2.46	43650-0625
	6	21.64	15.00		WM2642TR-ND†	343.00/200			43650-0625
	7	24.64	18.00	Gold,15µ”	WM2643CT-ND*	4.49	3.97	2.65	43650-0725
	7	24.64	18.00		WM2643TR-ND†	369.80/200			43650-0725
	8	27.64	21.00		WM2644CT-ND*	4.76	4.20	2.80	43650-0825
	8	27.64	21.00		WM2644TR-ND†	391.80/200			43650-0825
	9	30.63	24.00		WM2645CT-ND*	5.01	4.42	2.95	43650-0925
	9	30.63	24.00		WM2645TR-ND†	412.40/200			43650-0925
18A	10	33.66	27.00	Gold, 15µ”	WM2646CT-ND*	5.35	4.73	3.15	43650-1025
	10	33.66	27.00		WM2646TR-ND†	440.60/200			43650-1025
	12	39.65	33.00		WM2647CT-ND*	5.87	5.19	3.46	43650-1225
	12	39.65	33.00		WM2647TR-ND†	483.80/200			43650-1225
BMI Receptacle — Panel-to-Panel (Blind Mate)									
19	4	24.60	3.00	—	WM3712-ND◆	.67	.59	.40	44133-0400
	6	27.70	6.00		WM3713-ND◆	.80	.71	.48	44133-0600
	8	30.70	9.00		WM3714-ND◆	.91	.81	.54	44133-0800
	10	33.80	12.00		WM3715-ND◆	1.07	.95	.63	44133-1000
	12	36.80	15.00		WM3716-ND	1.26	1.11	.75	44133-1200
	14	39.90	18.00	—	WM3717-ND◆	1.48	1.31	.87	44133-1400
	16	42.90	21.00		WM3718-ND◆	1.71	1.51	1.01	44133-1600
	18	46.00	24.00		WM3719-ND	1.91	1.69	1.13	44133-1800
	20	49.00	27.00		WM3720-ND◆	2.13	1.89	1.26	44133-2000
	22	51.80	30.00		WM3721-ND◆	2.34	2.07	1.38	44133-2200
	24	54.90	33.00		WM3722-ND	2.56	2.27	1.51	44133-2400
BMI Plug — Panel-to-Panel (Blind Mate)									
20	4	22.84	3.00	—	WM3608-ND◆	.67	.59	.40	44300-0400
	6	25.84	6.00		WM3609-ND	.80	.71	.48	44300-0600
	8	28.84	9.00		WM3610-ND◆	.91	.81	.54	44300-0800
	10	31.84	12.00		WM3611-ND◆	1.07	.95	.63	44300-1000
	12	34.84	15.00		WM3612-ND◆	1.26	1.11	.75	44300-1200
	14	37.84	18.00	—	WM3613-ND◆	1.48	1.31	.87	44300-1400
	16	40.84	21.00		WM3614-ND	1.71	1.51	1.01	44300-1600
	18	43.84	24.00		WM3615-ND◆	1.92	1.70	1.13	44300-1800
	20	46.84	27.00		WM3616-ND◆	2.13	1.89	1.26	44300-2000
	22	49.84	30.00		WM3617-ND	2.34	2.07	1.38	44300-2200
	24	52.84	33.00		WM3618-ND◆	2.56	2.27	1.51	44300-2400

* Cut Tape † Tape and Reel ◆ ***RoHS Compliant***

Micro-Fit 3.0™ Terminals

Dimensions in mm

Female

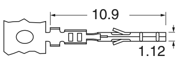

Male

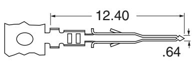

Description	Wire Size AWG	Insul. Dia. (mm)	Digi-Key Part No.	Pricing 10	100	500	Molex Part No.
Female-Tin	20-24	1.85	WM1837-ND	1.52	9.53	38.10	43030-0007
			WM1837CT-ND*	—	5.27	21.06	43030-0001
			WM1837TR-ND†	408.00/12,000			43030-0001
	26-30	1.27	WM1838-ND	1.52	9.53	38.10	43030-0010
Female-15µ” Gold	20-24	1.85	WM1125CT-ND*	1.16	9.24	38.51	43030-0002
			WM1125TR-ND†	552.00/12,000			43030-0002
			WM2773-ND	1.69	11.24	44.94	43030-0008
	26-30	1.27	WM2775-ND	1.69	11.24	44.94	43030-0011
Female-30µ” Gold	20-24	1.85	WM1839-ND	2.26	14.10	56.38	43030-0009
			WM2776CT-ND*	1.42	9.47	37.87	43030-0003
			WM2776TR-ND†	732.00/12,000			43030-0003
	26-30	1.27	WM1840-ND	2.26	14.10	56.38	43030-0012
			WM2779CT-ND*	1.42	9.47	37.87	43030-0006
			WM2779TR-ND†	912.00/12,000			43030-0006
Male-Tin	20-24	1.85	WM1841-ND	1.52	9.53	38.10	43031-0007
			WM1841CT-ND*	—	5.27	21.06	43031-0001
			WM1841TR-ND†	408.00/12,000			43031-0001
	26-30	1.27	WM1842-ND	1.52	9.53	38.10	43031-0010
			WM2780CT-ND*	.79	5.27	21.06	43031-0004
			WM2780TR-ND†	504.00/12,000			43031-0004
Male-15µ” Gold	20-24	1.85	WM1127CT-ND*	1.26	10.09	42.04	43031-0002
			WM1127TR-ND†	600.00/12,000			43031-0002
			WM2774-ND	1.79	11.91	47.63	43031-0008
	26-30	1.27	WM2782-ND	1.91	11.91	47.63	43031-0011
Male-30µ” Gold	20-24	1.85	WM1843-ND	2.56	16.02	64.06	43031-0009
			WM2777CT-ND*	1.69	11.24	44.94	43031-0003
			WM2777TR-ND†	864.00/12,000			43031-0003
	26-30	1.27	WM1844-ND	2.56	16.02	64.06	43031-0012
			WM2781CT-ND*	1.69	11.24	44.94	43031-0006
			WM2781TR-ND†	1080.00/12,000			43031-0006
Universal Crimp Tool (Molex)			WM9999-ND	50.75/1			63811-1000
Crimp Tool			WM9935-ND	228.96/1			63811-2800
Extraction Tool			WM9937-ND	16.92/1			11-03-0043
Manual Wire Stripper (Molex)			WM9969-ND	84.59/1			63817-0000

* Cut Tape † Tape and Reel

Mezzanine Connectors
Plateau HS Mezz™

Features: • Unique Gold-plated-plastic integrated shielding system designed for high-speed differential signaling greater than 10 Gbps • Contacts on 1.20mm (.047”) pitch arranged in isolated differential pairs on 3.50mm (.138”) pitch with SMT leads for controlled impedance • Reflow Capable (SMT only) **Electrical:** • Voltage: 30V maximum • Current: 1.5A maximum • Withstanding Voltage: 500V/1 minute • Contact Resistance: 25mΩ maximum • Insulation Resistance: 1,000 MΩ minimum **Physical:** • Housing: LCP Liquid Crystal Polymer, UL94V-O • Color: Natural • Contact: Brass (CuZn) • Plating Contact: Gold (Au) • Temperature Range: -20°C ~ 85°C

Dimensions in mm

Fig. 1 - Receptacle

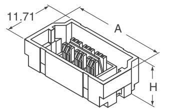

Fig. 2 - Plug

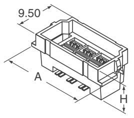

Fig.	No. of Circuits	No. of Differential Pairs	Dimensions (mm) A	H	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	12	6	22.23	7.25	WM17202CT-ND*	18.02	15.90	10.60	75005-0304
					WM17202TR- ND†	1935.45/275			75005-0304
1	12	6	22.30	9.25	WM17203CT-ND*	9.50	7.34	6.15	75005-0306
					WM17203TR-ND†	1282.17/216			75005-0306
	24	12	32.76	7.25	WM17204CT-ND*	20.96	18.50	12.34	75005-0004
					WM17204TR-ND†	2251.70/275			75005-0004
	24	12	32.83	9.25	WM17205CT-ND*	22.54	19.89	13.26	75005-0006
					WM17205TR-ND†	1892.43/215			75005-0006
	48	24	53.82	7.25	WM17206CT-ND*	17.78	13.98	11.72	75005-0104
					WM17206TR-ND†	3055.52/275			75005-0104
	72	36	74.88	7.25	WM17207CT-ND*	19.84	15.59	13.46	75005-0204
					WM17207TR-ND†	3506.52/275			75005-0204
2	12	6	19.93	8.25	WM17208-ND	18.02	15.90	10.60	75003-0305
	12	6	19.93	11.25	WM17209-ND	18.02	15.90	10.60	75003-0308
	12	6	19.93	13.25	WM17210-ND	18.02	15.90	10.60	75003-0310
	24	12	30.46	8.25	WM17211-ND	18.56	16.38	10.92	75003-0005
	24	12	30.46	11.25	WM17212-ND	22.10	19.51	13.01	75003-0008
	24	12	30.46	13.25	WM17213-ND	23.88	21.07	14.05	75003-0010
	48	24	51.52	8.25	WM17214-ND	35.22	31.08	20.72	75003-0105
	48	24	51.52	13.25	WM17215-ND	45.72	40.34	26.90	75003-0110
	72	36	72.58	8.25	WM17216-ND	50.11	44.22	29.48	75003-0205
	72	36	72.58	13.25	WM17217-ND	65.53	57.82	38.55	75003-0210

* Cut Tape † Tape and Reel

Mezzanine IEEE 1386 Connectors

Specifications: Electrical: • Voltage: 100V • Current: 1.0A • Contact Resistance: 30mΩ maximum • Dielectric Withstanding Voltage: 250V • Insulation Resistance: 1,000 MΩ minimum **Mechanical:** • Contact Retention to Housing: 0.4kgf minimum • Mating Force: 25g maximum per contact • Unmating Force: 50g minimum per contact **Physical:** • Housing: Glass-filled Thermoplastic, UL 94V-0 • Contact: Phosphor bronze • Plating: 0.76μm (30μ") Gold minimum • Temperature: -55°C ~ 85°C

Fig. 1

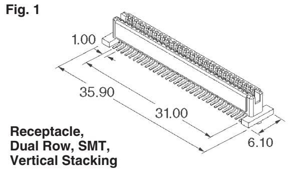

Receptacle, Dual Row, SMT, Vertical Stacking

Fig. 2

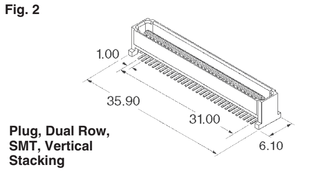

Plug, Dual Row, SMT, Vertical Stacking

	Mated Stack Heights (mm)			
	Headers			
Receptacles	**71436-0164**	**71436-1164**	**71436-2464**	**71436-2164**
71439-0464	8.0	9.0	10.0	10.0
71439-0164	8.0	9.0	10.0	10.0
71439-1164	—	11.0	12.0	12.0
71439-2464	—	—	13	13
71439-2164	—	—	13	13
71439-3464	—	14	15	15
71439-3164	—	14	15	15

Fig.	No. of Circuits	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
		Receptacles				
1	64	WM17201-ND	7.58	6.69	4.46	71439-0164
		WM17221-ND	7.92	6.99	4.66	71439-1164
		WM17222-ND	7.58	6.69	4.46	71439-2164
		WM17223-ND	8.26	7.30	4.87	71439-3164
		WM17224CT-ND‡ ***NEW!***	7.45	6.06	4.66	71439-0464
		WM17224TR-ND◊ ***NEW!***	2049.85/550			71439-0464
		WM17225CT-ND‡ ***NEW!***	7.78	6.32	4.87	71439-3464
		WM17225TR-ND◊ ***NEW!***	2411.18/620			71439-3464
		Plugs				
2	64	WM17200-ND	8.26	7.30	4.87	71436-2164
		WM17200CT-ND‡ ***NEW!***	—	—	7.78	71436-2464
		WM17200TR-ND◊ ***NEW!***	1293.14/380			71436-2464
		WM17219-ND	7.58	6.69	4.46	71436-0164
		WM17220-ND	7.92	6.99	4.66	71436-1164

‡ Cut Tape ◊ Tape and Reel

NEW! .40mm and .50mm Pitch SlimStack™ Connectors

Features: • 0.9mm ~ 4.00mm stacking heights • Metal friction lock provides secure mating • High temperature housing • Durable blade on beam contact interface • Anti-flux design **Specifications:** • Housing: Glass-filled LCP • Flammability: UL94V-0 • Contact Plating: Gold

.40mm Pitch Connectors

Dimensions in mm

Fig. 1

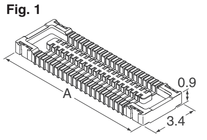

Fig. 2

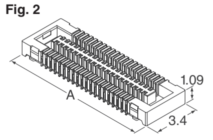

Fig. 3

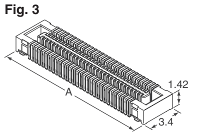

Fig. 4

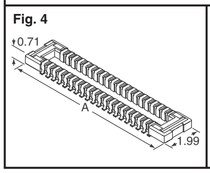

Fig. 5

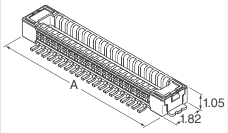

Fig. 6

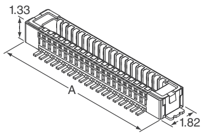

Fig.	No. of Circuits	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	25	100	Molex Part No.
			Receptacles					
			0.90mm Stacking Height					
1	20	7.1	WM24041-ND	3.46	2.77	2.31	1.85	501591-2011-C
	30	9.1	WM24042-ND	4.32	3.46	2.89	2.31	501591-3011-C
	40	11.1	WM24043-ND	5.18	4.15	3.46	2.77	501591-4011-C
	70	17.1	WM24044-ND	8.07	6.46	5.38	4.31	501591-7011-C
			1.30mm Stacking Height					
2	30	9.1	WM24053-ND	3.46	2.77	2.31	1.85	501527-0330-C
	40	11.1	WM24054-ND	4.55	3.65	3.04	2.43	501527-0430-C
	50	13.1	WM24055-ND	5.18	4.15	3.46	2.77	501527-0530-C
	90	21.1	WM24056-ND	7.89	6.32	5.27	4.21	501527-0930-C
			1.70mm Stacking Height					
3	40	11.1	WM24049-ND	2.25	1.80	1.50	1.20	501635-0410-C
	60	15.1	WM24050-ND	2.94	2.35	1.96	1.57	501635-0610-C
			Headers					
			0.90mm Stacking Height					
4	20	6.05	WM24045-ND	3.28	2.63	2.19	1.76	501594-2011-C
	30	8.05	WM24046-ND	4.15	3.32	2.77	2.22	501594-3011-C
	40	10.05	WM24047-ND	4.95	3.97	3.31	2.65	501594-4011-C
	70	16.05	WM24048-ND	7.49	6.00	5.00	4.00	501594-7011-C
			1.30mm Stacking Height					
5	30	8.06	WM24057-ND	2.88	2.31	1.93	1.54	501531-0310-C
	40	10.06	WM24058-ND	3.92	3.14	2.62	2.09	501531-0410-C
	50	12.06	WM24059-ND	4.38	3.50	2.92	2.34	501531-0510-C
	90	20.06	WM24060-ND	6.91	5.53	4.61	3.69	501531-0910-C
			1.70mm Stacking Height					
6	40	10.06	WM24051-ND	2.59	2.08	1.73	1.38	501639-0410-C
	60	14.06	WM24052-ND	3.63	2.91	2.42	1.94	501639-0610-C

.50mm Pitch Connectors

Fig. 1

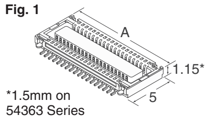

*1.5mm on 54363 Series

Fig. 2

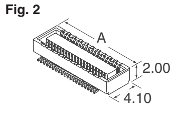

Fig. 3

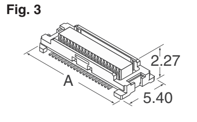

Fig. 4

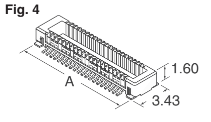

Fig. 5

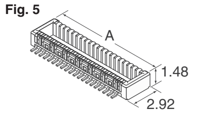

Fig. 6

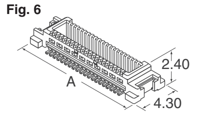

Fig.	No. of Circuits	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	25	100	Molex Part No.
			Receptacles					
			1.50mm Stacking Height (without Solder Tabs)					
1	16	6.6	WM23965-ND	2.11	1.70	1.41	1.13	54722-0168-C
	20	7.6	WM23966-ND	2.64	2.12	1.77	1.41	54722-0207-C
	22	8.1	WM23967-ND	2.62	2.10	1.75	1.40	54722-0228-C
	24	8.6	WM23968-ND	4.37	3.50	2.92	2.34	54722-0248-C
	34	11.1	WM23970-ND	4.49	3.60	3.00	2.40	54722-0348-C
	40	12.6	WM23971-ND	6.88	5.51	4.59	3.68	54722-0408-C
	50	15.3	WM24033-ND	5.94	4.76	3.97	3.18	54722-0507-C
	60	17.6	WM23973-ND	7.13	5.71	4.76	3.81	54722-0607-C
			2.00mm and 3.00mm Stacking Height (with Solder Tabs)					
1	20	8.9	WM23983-ND	7.25	5.81	4.84	3.87	54363-0278-C
	30	11.4	WM23984-ND	5.18	4.15	3.46	2.77	54363-0378-C
	40	13.9	WM23985-ND	10.73	8.59	7.16	5.73	54363-0478-C
	50	16.4	WM23986-ND	7.32	5.86	4.89	3.91	54363-0578-C
	60	18.9	WM23987-ND	7.15	5.73	4.77	3.82	54363-0678-C
	80	23.9	WM23988-ND	15.29	12.24	10.20	8.16	54363-0878-C
			2.50mm Stacking Height					
2	20	7.6	WM23995-ND	3.47	2.78	2.32	1.86	54102-0208-C
	30	10.1	WM23996-ND	4.99	3.99	3.33	2.66	54102-0308-C
	40	12.6	WM23997-ND	5.59	4.47	3.73	2.99	54102-0408-C
	50	15.1	WM23998-ND	6.05	4.85	4.04	3.23	54102-0508-C
	60	17.6	WM23999-ND	7.27	5.82	4.85	3.88	54102-0608-C
	80	23.96	WM24000-ND	6.34	5.07	4.23	3.38	54150-0878-C
			3.00mm and 4.00mm Stacking Height					
3	20	8.8	WM24007-ND	1.98	1.59	1.32	1.06	52991-0208-C
	30	11.3	WM24008-ND	2.22	1.78	1.49	1.19	52991-0308-C
	40	13.8	WM24009-ND	4.42	3.54	2.95	2.36	52991-0408-C
	80	23.8	WM24012-ND	10.07	8.06	6.72	5.37	52991-0808-C
			Headers					
			1.50mm Stacking Height					
4	16	5.45	WM23974-ND	1.31	1.06	.88	.71	55560-0168-C
	20	6.45	WM23975-ND	2.27	1.82	1.52	1.22	55560-0207-C
	22	6.95	WM23976-ND	2.15	1.72	1.44	1.15	55560-0227-C
	24	7.45	WM23977-ND	2.39	1.92	1.60	1.28	55560-0247-C
	34	9.95	WM23979-ND	6.71	5.37	4.48	3.58	55560-0347-C
	40	11.45	WM23980-ND	5.28	4.23	3.53	2.82	55560-0407-C
	60	16.45	WM23982-ND	6.74	5.39	4.50	3.60	55560-0607-C
			2.00mm Stacking Height					
4	20	7.75	WM23989-ND	10.35	8.29	6.91	5.53	55201-0278-C
	30	10.25	WM23991-ND	2.21	1.77	1.48	1.18	55650-0388-C
	40	12.75	WM23992-ND	3.50	2.80	2.34	1.87	55650-0488-C
	50	15.25	WM23993-ND	6.65	5.32	4.44	3.55	55650-0588-C
	60	17.75	WM23994-ND	7.17	5.74	4.78	3.83	55650-0688-C
	80	22.75	WM23990-ND	14.60	11.69	9.74	7.79	55201-0878-C
			2.50mm Stacking Height					
5	20	6.45	WM24001-ND	3.06	2.45	2.04	1.64	53885-0208-C
	30	8.95	WM24002-ND	3.65	2.93	2.44	1.95	53885-0308-C
	40	11.45	WM24003-ND	4.51	3.61	3.01	2.41	53885-0408-C
	50	13.95	WM24004-ND	5.40	4.32	3.60	2.88	53885-0508-C
	60	16.45	WM24005-ND	6.17	4.94	4.12	3.30	53885-0608-C
	80	22.75	WM24006-ND	8.10	6.49	5.41	4.33	53949-0878-C
			3.00mm Stacking Height					
6	20	8.8	WM24013-ND	2.98	2.39	1.99	1.60	53748-0208-C
	30	11.3	WM24014-ND	3.52	2.82	2.35	1.88	53748-0308-C
	40	13.8	WM24015-ND	3.75	3.00	2.51	2.01	53748-0408-C
	80	23.8	WM24018-ND	9.10	7.29	6.07	4.86	53748-0808-C

AMC Connector - 0.75mm

Advanced Mezzanine Card Connector (AMC)

Features: • B+ style • Reflow capable • Mates with AMC.0 Modules • Press-fit technology for easy, reliable board termination • Meets PICMG AMC.0 Rev. 1 specification **Electrical:** • Contact Resistance: 60mΩ max. • Insulation Resistance: 10MΩ minimum **Physical:** • Housing Material: LCP Liquid Crystal Polymer, Glass-filled • Color: Black • Flammability: UL94V-0 • Contact: Copper (Cu) Alloy • Plating Contact: 0.76μm (30μ") Gold (Au) • Plating Tail: Tin (Sn) • Temperature Range: -40°C ~ 105°C

Dimensions in mm

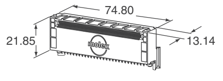

No. of Circuits	Current Max. (A)	Voltage Max. (V)	Withstanding Voltage	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
170	1.0	250	300VAC	WM17218-ND	64.17	53.48	47.24	75800-0001

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Mini-Fit Jr.™ Connectors

Positive Locking Hi-Density Power Connector

Plugs, Receptacles and Headers:
Specifications: • **Material:** *Terminal:* Brass; *Plating:* Tin; *Housing:* UL94V-2, UL94V-0 nylon 6/6 • Up to 9 Amperes/circuit • **Voltage Current:** 250V (Vertical Header with Pegs: 600V) • **Contact Resistance:** 10mΩ maximum • **Insulation Resistance:** 1,000MΩ minimum • **Dielectric Strength:** 1,500VAC
Safety Approvals: • UL recognized • CSA certified • TUV licensed

RoHS Temperature Capable (RTC) Headers:
Specifications: • **Material:** Brass, high temperature thermoplastic resin, black • **Current:** 12.00A maximum • **Voltage:** 600VAC(RMS)/DC maximum • **Operating Temperature Range:** -40°C ~ 105°C • **Process Temperature:** 260°C maximum

Fig. 1 – Dual Row Receptacle (Female Contacts Sold Separately)

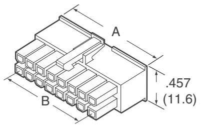

Fig. 2 – Dual Row Plug - Panel Mount or Free Hanging (Male Contacts Sold Separately)

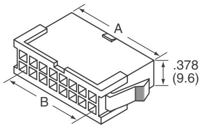

Fig. 3 – Single Row Receptacle (Female Contacts Sold Separately)

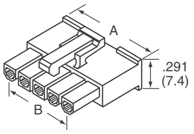

Fig. 4 – Single Row Plug - Panel Mount or Free Hanging (Male Contacts Sold Separately)

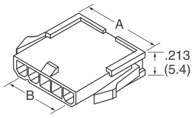

Fig. 5 – Vertical Dual Row Header

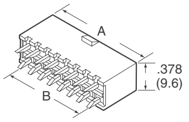

Fig. 6 – Vertical Dual Row Header with Pegs

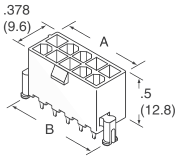

Fig. 7 – Right Angle Dual Row

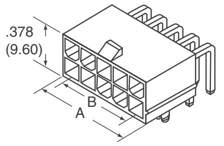

Fig. 8 – Right Angle Dual Row Header with Flange

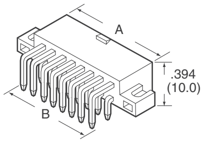

Fig. 9 – Vertical Single Row with Pegs

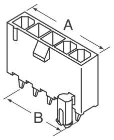

Fig. 10 – Right Angle Single Row with Pegs

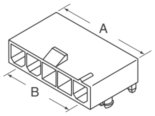

Fig. 11 – Strain Relief use with Fig. 1

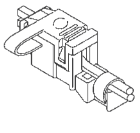

Fig. 12 – Plug Free Hanging mates with Fig. 1

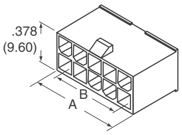

Fig. 13 – RTC Vertical Dual Row Header with Pegs

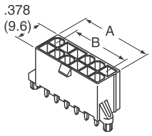

Fig.	Cir-cuits	Amps	Dimension – Inch (mm)		Digi-Key Part No.	Price Each			Molex Part No.
			A	B		1	10	100	
UL94V-2 — RoHS Compliant									
1	2	9	.213 (5.40)	—	WM3700-ND	.37	.33	.22	39-01-2020
	2	9	.291 (7.39)	.134 (3.40)	WM1021-ND	.45	.40	.27	39-01-3022
	4	8	.378 (9.60)	.165 (4.20)	WM3701-ND	.42	.38	.25	39-01-2040
	4	9	.457 (11.60)	.165 (4.20)	WM1022-ND	.52	.46	.31	39-01-3042
	6	8	.543 (13.80)	.331 (8.40)	WM3702-ND	.53	.47	.31	39-01-2060
	8	7	.709 (18.00)	.496 (12.60)	WM3703-ND	.59	.53	.35	39-01-2080
	10	7	.874 (22.20)	.661 (16.80)	WM3704-ND	.71	.63	.42	39-01-2100
	12	6	1.039 (26.40)	.827 (21.00)	WM3705-ND	.80	.71	.48	39-01-2120
	14	6	1.205 (30.60)	.992 (25.20)	WM3706-ND	.98	.87	.58	39-01-2140
	16	6	1.370 (34.80)	1.158 (29.40)	WM3707-ND	.99	.88	.59	39-01-2160
	18	6	1.535 (39.00)	1.323 (33.60)	WM3708-ND	1.16	1.02	.69	39-01-2180
	20	6	1.701 (43.20)	1.488 (37.80)	WM3709-ND	1.27	1.05	.75	39-01-2200
	22	6	1.866 (47.40)	1.654 (42.00)	WM3710-ND	1.71	1.51	1.01	39-01-2220
	24	6	2.031 (51.60)	1.819 (46.20)	WM3711-ND	1.40	1.24	.83	39-01-2240
2	2	9	.213 (5.40)	—	WM3600-ND	.46	.41	.28	39-01-2021
	4	8	.378 (9.60)	.165 (4.20)	WM3601-ND	.51	.46	.31	39-01-2041
	6	8	.543 (13.80)	.331 (8.40)	WM3602-ND	.55	.49	.33	39-01-2061
	8	7	.709 (18.00)	.496 (12.60)	WM3603-ND	.59	.53	.35	39-01-2081
	10	7	.874 (22.20)	.661 (16.80)	WM3604-ND	.71	.63	.42	39-01-2101
	12	6	1.039 (26.40)	.827 (21.00)	WM3605-ND	.73	.65	.43	39-01-2121
	14	6	1.205 (30.60)	.992 (25.20)	WM3606-ND	1.02	.90	.60	39-01-2141
	16	6	1.370 (34.80)	1.158 (29.40)	WM3607-ND	1.32	1.17	.78	39-01-2161
	18	6	1.535 (39.00)	1.323 (33.6)	WM1012-ND	1.32	1.17	.78	39-01-2181
	20	6	1.701 (43.20)	1.488 (37.8)	WM1028-ND	1.54	1.37	.91	39-01-2201
	22	6	1.866 (47.40)	1.654 (42.0)	WM1013-ND	1.70	1.51	1.01	39-01-2221
	24	6	2.031 (51.60)	1.819 (46.2)	WM1029-ND	1.85	1.64	1.10	39-01-2241
3	3	9	.543 (13.80)	.331 (8.40)	WM18434-ND*§	.45	.40	.27	39-01-4030
	4	8	.709 (18.01)	.496 (12.60)	WM18435-ND§	.54	.48	.32	39-01-4040
	5	8	.874 (22.20)	.661 (16.80)	WM18436-ND§	.59	.52	.35	39-01-4050
4	3	9	.543 (13.80)	.331 (8.40)	WM18437-ND*†	.50	.44	.30	39-01-4032
	3	9	.543 (13.80)	.331 (8.40)	WM18439-ND*§	.49	.44	.29	39-01-4036
	4	8	.709 (18.01)	.496 (12.60)	WM18440-ND§	.53	.48	.32	39-01-4046
	5	8	.874 (22.20)	.661 (16.80)	WM18438-ND†	.56	.50	.34	39-01-4052
	5	8	.874 (22.20)	.661 (16.80)	WM18441-ND§	.56	.50	.34	39-01-4056
12	2	9	.291 (7.40)	—	WM1030-ND§	.45	.40	.27	39-01-3023
	4	9	.457 (11.60)	.165 (4.20)	WM1018-ND§	.45	.40	.27	39-01-3043
	6	8	.543 (13.80)	.331 (8.40)	WM1031-ND§	.53	.48	.32	39-01-3063
	8	7	.709 (18.00)	.496 (12.60)	WM1019-ND§	.64	.57	.38	39-01-3083
	10	7	.874 (22.20)	.661 (16.80)	WM1020-ND§	.71	.63	.42	39-01-3103
	12	6	1.039 (26.40)	.827 (21.00)	WM1056-ND§	.64	.57	.38	39-01-3123
	14	6	1.205 (30.60)	.992 (25.20)	WM1057-ND§	.91	.80	.54	39-01-3143
	16	6	1.370 (34.80)	1.157 (29.40)	WM1058-ND§	1.18	1.04	.70	39-01-3163
UL94V-0 — RoHS Compliant									
1	2	9	.213 (5.40)	—	WM23700-ND	.61	.54	.36	39-01-2025
	4	8	.378 (9.60)	.165 (4.20)	WM23701-ND	.66	.59	.39	39-01-2045
	6	8	.543 (13.80)	.331 (8.40)	WM23702-ND	.83	.73	.49	39-01-2065
	8	7	.709 (18.00)	.496 (12.60)	WM23703-ND	.89	.79	.53	39-01-2085
	10	7	.874 (22.20)	.661 (16.80)	WM23704-ND	.99	.88	.59	39-01-2105
	12	6	1.039 (26.40)	.827 (21.00)	WM23705-ND	1.18	1.05	.70	39-01-2125
	14	6	1.205 (30.60)	.992 (25.20)	WM23706-ND	1.27	1.12	.75	39-01-2145
	16	6	1.370 (34.80)	1.158 (29.40)	WM23707-ND	1.53	1.35	.90	39-01-2165
	18	6	1.535 (39.00)	1.323 (33.60)	WM23708-ND	1.79	1.58	1.06	39-01-2185
	20	6	1.701 (43.20)	1.488 (37.80)	WM23709-ND	1.93	1.71	1.14	39-01-2205
	22	6	1.866 (47.40)	1.654 (42.00)	WM23710-ND	2.36	2.08	1.39	39-01-2225
	24	6	2.031 (51.60)	1.819 (46.20)	WM23711-ND	2.00	1.77	1.18	39-01-2245
2	2	9	.213 (5.40)	—	WM23600-ND	.69	.61	.41	39-01-2026
	4	8	.378 (9.60)	.165 (4.20)	WM23601-ND	.79	.71	.47	39-01-2046
	6	8	.543 (13.80)	.331 (8.40)	WM23602-ND	.94	.83	.56	39-01-2066
	8	7	.709 (18.00)	.496 (12.60)	WM23603-ND	.99	.88	.59	39-01-2086
	10	7	.874 (22.20)	.661 (16.80)	WM23604-ND	1.05	.93	.62	39-01-2106
	12	6	1.039 (26.40)	.827 (21.00)	WM23605-ND	1.10	.97	.65	39-01-2126
	14	6	1.205 (30.60)	.992 (25.20)	WM23606-ND	1.30	1.16	.77	39-01-2146
	16	6	1.370 (34.80)	1.158 (29.40)	WM23607-ND	1.60	1.41	.94	39-01-2166
3	3	9	.543 (13.80)	.331 (8.40)	WM23608-ND*§	.73	.65	.43	39-01-4031
	4	8	.709 (18.01)	.496 (12.60)	WM23609-ND§	.81	.72	.48	39-01-4041
	5	8	.874 (22.20)	.661 (16.80)	WM23610-ND§	.87	.77	.52	39-01-4051
4	3	9	.543 (13.80)	.331 (8.40)	WM23611-ND*†	.77	.68	.46	39-01-4033
	4	8	.709 (18.01)	.496 (12.60)	WM23612-ND§	.84	.74	.50	39-01-4047
	5	8	.874 (22.20)	.661 (16.80)	WM23613-ND†	.89	.79	.53	39-01-4053
12	2	9	.291 (7.40)	—	WM24034-ND§ ***NEW!***	.69	.61	.41	39-01-3029
Tin Plated, UL94V-2									
5	2	9	.210 (5.40)	—	WM3800-ND◆	.85	.76	.51	39-28-1023
	4	8	.380 (9.60)	.170 (4.20)	WM3801-ND◆	1.11	.99	.66	39-28-1043
	6	8	.540 (13.80)	.330 (8.40)	WM3802-ND◆	1.48	1.31	.88	39-28-1063
	8	7	.710 (18.00)	.500 (12.60)	WM3803-ND◆	1.71	1.51	1.01	39-28-1083
	10	7	.870 (22.20)	.660 (16.80)	WM3804-ND◆	2.22	1.97	1.31	39-28-1103
	12	6	1.040 (26.40)	.825 (20.96)	WM3805-ND◆	2.15	1.90	1.27	39-28-1123
	14	6	1.200 (31.60)	.990 (25.20)	WM3806-ND◆	2.89	2.56	1.71	39-28-1143
	16	6	1.370 (34.80)	1.160 (29.40)	WM3807-ND◆	3.22	2.84	1.90	39-28-1163
	18	6	1.540 (39.00)	1.320 (33.60)	WM3808-ND◆	3.62	3.20	2.13	39-28-1183
	20	6	1.700 (43.20)	1.490 (37.80)	WM3809-ND◆	4.02	3.55	2.37	39-28-1203
	22	6	1.870 (47.40)	1.650 (42.00)	WM3810-ND◆	4.42	3.90	2.60	39-28-1223
	24	6	2.030 (51.60)	1.820 (46.20)	WM3811-ND◆	4.83	4.26	2.84	39-28-1243
7	2	9	.213 (5.40)	—	WM1351-ND◆	.90	.80	.53	39-30-1020
	4	8	.378 (9.60)	.165 (4.20)	WM1352-ND◆	1.16	1.03	.69	39-30-1040
	6	8	.543 (13.80)	.331 (8.40)	WM1353-ND◆	1.45	1.29	.86	39-30-1060
	8	7	.709 (18.00)	.496 (12.60)	WM1354-ND◆	1.77	1.57	1.05	39-30-1080
	10	7	.874 (22.20)	.661 (16.80)	WM1355-ND◆	2.13	1.88	1.26	39-30-1100
	12	6	1.039 (26.40)	.827 (21.00)	WM1356-ND◆	2.52	2.23	1.49	39-30-1120
	14	6	1.205 (30.60)	.992 (25.20)	WM1357-ND◆	2.97	2.62	1.75	39-30-1140
	16	6	1.370 (34.80)	1.158 (29.40)	WM1358-ND◆	3.45	3.05	2.03	39-30-1160
	18	6	1.535 (39.00)	1.323 (33.60)	WM1359-ND◆	4.00	3.53	2.36	39-30-1180
	20	6	1.701 (43.20)	1.488 (37.80)	WM1360-ND◆	4.60	4.06	2.71	39-30-1200
	22	6	1.866 (47.40)	1.654 (42.00)	WM1361-ND◆	5.20	4.59	3.06	39-30-1220
	24	6	2.031 (51.60)	1.819 (46.20)	WM1362-ND	5.82	5.14	3.43	39-30-1240

‡ Without drain holes † Panel Mount § Free-Hanging ◆ ***RoHS Compliant***
* 3-circuit receptacle designed for first-mate/last-break applications

(Continued)

Mini-Fit Jr.™ Connectors *(Cont.)*

Positive Locking Hi-Density Power Connector

Fig.	Cir-cuits	Amps	Dimension – Inch (mm)		Digi-Key Part No.	Price Each			Molex Part No.
			A	B		1	10	100	
8	2	9	.606 (15.40)	—	WM3900-ND◆	.99	.87	.58	39-29-1028
	4	8	.772 (19.60)	.165 (4.20)	WM3901-ND◆	1.28	1.14	.76	39-29-1048
	6	8	.937 (23.80)	.331 (23.80)	WM3902-ND◆	1.60	1.42	.95	39-29-1068
	8	7	1.102 (28.00)	.496 (12.60)	WM3903-ND◆	1.95	1.73	1.15	39-29-1088
	10	7	1.268 (32.20)	.661 (16.80)	WM3904-ND◆	2.34	2.07	1.38	39-29-1108
	12	6	1.433 (36.40)	.827 (21.00)	WM3905-ND◆	2.76	2.44	1.63	39-29-1128
	14	6	1.598 (40.60)	.992 (25.20)	WM3906-ND◆	3.26	2.88	1.92	39-29-1148
	16	6	1.764 (44.80)	1.158 (29.40)	WM3907-ND◆	3.79	3.35	2.23	39-29-1168
	18	6	1.929 (49.00)	1.323 (33.60)	WM3908-ND	4.40	3.88	2.59	39-29-1188
	20	6	2.094 (53.20)	1.488 (37.80)	WM3909-ND◆	5.26	4.64	3.10	39-29-1208
	22	6	2.260 (57.40)	1.654 (42.00)	WM3910-ND◆	5.72	5.05	3.37	39-29-1228
	24	6	2.425 (61.60)	1.819 (46.20)	WM3911-ND◆	6.65	5.88	3.92	39-29-1248
9	3	9	.543 (13.80)	.331 (8.40)	WM18442-ND‡◆	1.11	.99	.66	39-30-1039
	3	9	.543 (13.80)	.331 (8.40)	WM18443-ND◆	1.11	.99	.66	39-30-2035
	4	8	.709 (18.01)	.496 (12.60)	WM18444-ND◆	1.82	1.61	1.08	39-30-2045
	5	8	.874 (22.20)	.661 (16.80)	WM18445-ND◆	1.98	1.76	1.17	39-30-2056
10	3	9	.543 (13.80)	.331 (8.40)	WM18446-ND◆	1.35	1.20	.80	39-30-3035
	4	8	.709 (18.01)	.496 (12.60)	WM18447-ND◆	1.60	1.42	.95	39-30-3045
	5	8	.874 (22.20)	.661 (16.80)	WM18448-ND◆	1.85	1.64	1.10	39-30-3055
Vertical 35µ" Tin Header, UL94V-2 — RoHS Compliant									
6	2	9	.210 (5.40)	.370 (9.40)	WM7324-ND	.76	.68	.45	39-29-9022
	4	8	.380 (9.60)	.535 (13.60)	WM7325-ND	.88	.78	.52	39-29-9042
	6	8	.540 (13.80)	.701 (17.80)	WM7326-ND	1.32	1.17	.78	39-29-9062
	8	7	.710 (18.00)	.866 (22.00)	WM7327-ND	1.52	1.35	.90	39-29-9082
	10	7	.870 (22.20)	1.031 (26.20)	WM7328-ND	1.82	1.61	1.08	39-29-9102
	12	6	1.040 (26.40)	1.197 (30.40)	WM7329-ND	2.41	2.13	1.42	39-29-9122
	14	6	1.200 (30.60)	1.362 (34.60)	WM7330-ND	2.58	2.28	1.52	39-29-9142
	16	6	1.370 (34.80)	1.528 (38.80)	WM7331-ND	2.99	2.64	1.76	39-29-9162
	18	6	1.540 (39.00)	1.693 (43.00)	WM7332-ND	3.36	2.97	1.98	39-29-9182
	20	6	1.700 (43.20)	1.858 (47.20)	WM7346-ND	2.07	1.83	1.22	39-29-9202
	22	6	1.870 (47.40)	2.024 (51.40)	WM7333-ND	4.13	3.65	2.44	39-29-9222
	24	6	2.030 (51.60)	2.189 (55.60)	WM7334-ND	3.32	2.93	1.96	39-29-9242
Vertical 100µ" Tin Header, UL94V-2 — RoHS Compliant									
6	2	9	.210 (5.40)	.370 (9.40)	WM17745-ND	.92	.82	.55	39-30-6027
	4	8	.380 (9.60)	.535 (13.60)	WM17746-ND	1.27	1.12	.75	39-30-6047
	6	8	.540 (13.80)	.701 (17.80)	WM17747-ND	1.38	1.22	.82	39-30-6067
	8	7	.710 (18.00)	.866 (22.00)	WM17748-ND	1.52	1.35	.90	39-30-6087
	10	7	.870 (22.20)	1.031 (26.20)	WM17749-ND	1.82	1.61	1.08	39-30-6107
	12	6	1.040 (26.40)	1.197 (30.40)	WM17750-ND	2.41	2.13	1.42	39-30-6127
	14	6	1.200 (30.60)	1.362 (34.60)	WM17751-ND	2.58	2.28	1.52	39-30-6147
	16	6	1.370 (34.80)	1.528 (38.80)	WM17752-ND	2.99	2.64	1.76	39-30-6167
	18	6	1.540 (39.00)	1.693 (43.00)	WM17753-ND	3.36	2.97	1.98	39-30-6187
	20	6	1.700 (43.20)	1.858 (47.20)	WM17754-ND	4.15	3.67	2.45	39-30-6207
	22	6	1.870 (47.40)	2.024 (51.40)	WM17755-ND	4.13	3.65	2.44	39-30-6227
	24	6	2.030 (51.60)	2.189 (55.60)	WM17756-ND	4.31	3.81	2.54	39-30-6247
Tin Plated, UL94V-0 — RoHS Compliant									
5	2	9	.210 (5.40)	—	WM23800-ND	.79	.70	.47	39-28-8020
	4	8	.380 (9.60)	.170 (4.20)	WM23801-ND	1.22	1.08	.72	39-28-8040
	6	8	.540 (13.80)	.330 (8.40)	WM23802-ND	1.67	1.48	.99	39-28-8060
	8	7	.710 (18.00)	.500 (12.60)	WM23803-ND	2.03	1.79	1.20	39-28-8080
	10	7	.870 (22.20)	.660 (16.80)	WM23804-ND	2.39	2.11	1.41	39-28-8100
	12	6	1.040 (26.40)	.825 (20.96)	WM23805-ND	2.65	2.34	1.56	39-28-8120
	14	6	1.200 (31.60)	.990 (25.20)	WM23806-ND	3.05	2.69	1.80	39-28-8140
	16	6	1.370 (34.80)	1.160 (29.40)	WM23807-ND	3.45	3.05	2.03	39-28-8160
	18	6	1.540 (39.00)	1.320 (33.60)	WM23808-ND	3.88	3.43	2.29	39-28-8180
	20	6	1.700 (43.20)	1.490 (37.80)	WM23809-ND	4.31	3.81	2.54	39-28-8200
	22	6	1.870 (47.40)	1.650 (42.00)	WM23810-ND	4.74	4.19	2.79	39-28-8220
	24	6	2.030 (51.60)	1.820 (46.20)	WM23811-ND	5.18	4.57	3.05	39-28-8240
7	2	9	.213 (5.40)	—	WM21351-ND	1.04	.92	.62	39-30-0020
	4	8	.378 (9.60)	.165 (4.20)	WM21352-ND	1.35	1.20	.80	39-30-0040
	6	8	.543 (13.80)	.331 (8.40)	WM21353-ND	1.69	1.49	1.00	39-30-0060
	8	7	.709 (18.00)	.496 (12.60)	WM21354-ND	2.06	1.82	1.22	39-30-0080
	10	7	.874 (22.20)	.661 (16.80)	WM21355-ND	2.48	2.19	1.46	39-30-0100
	12	6	1.039 (26.40)	.827 (21.00)	WM21356-ND	2.93	2.59	1.73	39-30-0120
	14	6	1.205 (30.60)	.992 (25.20)	WM21357-ND	3.45	3.05	2.03	39-30-0140
	16	6	1.370 (34.80)	1.158 (29.40)	WM21358-ND	4.00	3.53	2.36	39-30-0160
	18	6	1.535 (39.00)	1.323 (33.60)	WM21359-ND	4.64	4.10	2.74	39-30-0180
	20	6	1.701 (43.20)	1.488 (37.80)	WM21360-ND	5.34	4.71	3.14	39-30-0200
	22	6	1.866 (47.40)	1.654 (42.00)	WM21361-ND	6.03	5.33	3.55	39-30-0220
	24	6	2.031 (51.60)	1.819 (46.20)	WM21362-ND	6.34	5.60	3.73	39-30-0240
9	3	9	.543 (13.80)	.331 (8.40)	WM24035-ND‡ ***NEW!***	1.14	1.01	.67	39-30-2030
	4	8	.709 (18.00)	.496 (12.60)	WM24036-ND‡ ***NEW!***	1.51	1.33	.89	39-30-2040
	5	8	.874 (22.20)	.661 (16.80)	WM24037-ND‡ ***NEW!***	1.77	1.57	1.05	39-30-2050
10	3	9	.543 (13.80)	.331 (8.40)	WM24038-ND ***NEW!***	1.44	1.28	.85	39-30-3036
	4	8	.709 (18.00)	.496 (12.60)	WM24039-ND ***NEW!***	1.72	1.52	1.02	39-30-3046
	5	8	.874 (22.20)	.661 (16.80)	WM24040-ND ***NEW!***	1.99	1.76	1.17	39-30-3056
30µ" Gold Plated, UL94V-2									
5	2	9	.210 (5.40)	—	WM3820-ND◆	1.55	1.38	.92	39-29-0023
	4	8	.380 (9.60)	.170 (4.20)	WM3821-ND◆	2.85	2.52	1.68	39-29-0043
	6	8	.540 (13.80)	.330 (8.40)	WM3822-ND◆	4.10	3.62	2.42	39-29-0063
	8	7	.710 (18.00)	.500 (12.60)	WM3823-ND◆	5.33	4.71	3.14	39-29-0083
	10	7	.870 (22.20)	.660 (16.80)	WM3824-ND	6.49	5.73	3.82	39-29-0103
	12	6	1.040 (26.40)	.830 (21.00)	WM3825-ND◆	7.66	6.76	4.51	39-29-0123
	14	6	1.200 (30.60)	.990 (25.20)	WM3826-ND◆	9.02	7.96	5.31	39-29-0143
	16	6	1.370 (34.80)	1.160 (29.40)	WM3827-ND◆	10.26	9.06	6.04	39-29-0163
	18	6	1.540 (39.00)	1.320 (33.60)	WM3828-ND◆	11.54	10.19	6.79	39-29-0183
	20	6	1.700 (43.20)	1.490 (37.80)	WM3829-ND◆	12.82	11.32	7.55	39-29-0203
	22	6	1.870 (47.40)	1.650 (42.00)	WM3830-ND	14.11	12.45	8.30	39-29-0223
	24	6	2.030 (51.60)	1.820 (46.20)	WM3831-ND◆	15.39	13.58	9.06	39-29-0243
7	2	9	.213 (5.40)	—	WM1363-ND◆	1.88	1.67	1.11	39-30-1021
	4	8	.378 (9.60)	.165 (4.20)	WM1364-ND◆	2.45	2.16	1.44	39-30-1041
	6	8	.543 (13.80)	.331 (8.40)	WM1365-ND◆	3.06	2.71	1.81	39-30-1061
7	8	7	.709 (18.00)	.496 (12.60)	WM1366-ND◆	3.74	3.30	2.20	39-30-1081
	10	7	.874 (22.20)	.661 (16.80)	WM1367-ND◆	4.48	3.96	2.64	39-30-1101
	12	6	1.039 (26.40)	.827 (21.00)	WM1368-ND◆	5.29	4.67	3.11	39-30-1121
	14	6	1.205 (30.60)	.992 (25.20)	WM1369-ND◆	6.24	5.51	3.68	39-30-1141
	16	6	1.370 (34.80)	1.158 (29.40)	WM1370-ND◆	7.23	6.39	4.26	39-30-1161
	18	6	1.535 (39.00)	1.323 (33.60)	WM1371-ND◆	8.39	7.41	4.94	39-30-1181
	20	6	1.701 (43.20)	1.488 (37.80)	WM1372-ND◆	9.65	8.52	5.68	39-30-1201
	22	6	1.866 (47.40)	1.654 (42.00)	WM1373-ND◆	10.90	9.63	6.42	39-30-1221
	24	6	2.031 (51.60)	1.819 (46.20)	WM1374-ND	12.22	10.78	7.19	39-30-1241
8	2	9	.606 (15.40)	—	WM3920-ND◆	2.08	1.84	1.23	39-29-5023
	4	8	.772 (19.60)	.165 (4.20)	WM3921-ND◆	2.57	2.27	1.51	39-29-5043
	6	8	.937 (23.80)	.331 (8.40)	WM3922-ND◆	3.20	2.83	1.89	39-29-5063
	8	7	1.102 (28.00)	.496 (12.60)	WM3923-ND◆	3.91	3.45	2.30	39-29-5083
	10	7	1.268 (32.20)	.661 (16.80)	WM3924-ND◆	4.69	4.15	2.77	39-29-5103
	12	6	1.433 (36.40)	.827 (21.00)	WM3925-ND◆	5.54	4.89	3.26	39-29-5123
	14	6	1.598 (40.60)	.992 (25.20)	WM3926-ND◆	6.53	5.77	3.85	39-29-5143
	16	6	1.764 (44.80)	1.158 (29.40)	WM3927-ND◆	7.58	6.69	4.46	39-29-5163
	18	6	1.929 (49.00)	1.323 (33.60)	WM3928-ND◆	8.79	7.76	5.18	39-29-5183
	20	6	2.094 (53.20)	1.488 (37.80)	WM3929-ND◆	10.11	8.93	5.95	39-29-5203
	22	6	2.260 (57.40)	1.654 (42.00)	WM3930-ND◆	11.42	10.08	6.72	39-29-5223
	24	6	2.425 (61.60)	1.819 (46.20)	WM3931-ND◆	12.79	11.29	7.53	39-29-5243
30µ" Gold, UL94V-2 — RoHS Compliant									
9	3	9	.543 (13.80)	.331 (8.40)	WM23932-ND	2.22	1.97	1.31	39-30-2037
	4	8	.709 (18.0)	.496 (12.60)	WM23933-ND	2.81	2.49	1.66	39-30-2047
	5	8	.874 (22.20)	.661 (16.80)	WM23934-ND	3.62	3.20	2.13	39-30-2058
10	3	9	.54 (13.80)	.331 (8.40)	WM23935-ND	2.28	2.02	1.35	39-30-3037
	4	8	.709 (18.0)	.496 (12.60)	WM23936-ND	2.72	2.40	1.60	39-30-3047
	5	8	.874 (22.20)	.661 (16.80)	WM23937-ND	3.15	2.78	1.86	39-30-3057
30µ" Gold Plated, UL94V-0 — RoHS Compliant									
5	2	9	.210 (5.40)	—	WM23820-ND	1.63	1.44	.96	39-29-6028
	4	8	.380 (9.60)	.170 (4.20)	WM23821-ND	2.73	2.42	1.61	39-29-6048
	6	8	.540 (13.80)	.330 (8.40)	WM23822-ND	3.90	3.45	2.30	39-29-6068
	8	7	.710 (18.00)	.500 (12.60)	WM23823-ND	5.05	4.46	2.97	39-29-6088
	10	7	.870 (22.20)	.660 (16.80)	WM23824-ND	6.20	5.47	3.65	39-29-6108
	12	6	1.040 (26.40)	.830 (21.00)	WM23825-ND	7.28	6.43	4.29	39-29-6128
	14	6	1.200 (30.60)	.990 (25.20)	WM23826-ND	8.50	7.51	5.01	39-29-6148
	16	6	1.370 (34.80)	1.160 (29.40)	WM23827-ND	9.52	8.40	5.60	39-29-6168
	18	6	1.540 (39.00)	1.320 (33.60)	WM23828-ND	8.57	7.57	5.05	39-29-6188
	20	6	1.700 (43.20)	1.490 (37.80)	WM23829-ND	11.89	10.50	7.00	39-29-6208
	22	6	1.870 (47.40)	1.650 (42.00)	WM23830-ND	13.09	11.55	7.70	39-29-6228
	24	6	2.030 (51.60)	1.820 (46.20)	WM23831-ND	12.13	10.71	7.14	39-29-6248
7	2	9	.213 (5.40)	—	WM21363-ND	2.29	2.03	1.35	39-30-1022
	4	8	.378 (9.60)	.165 (4.20)	WM21364-ND	2.98	2.63	1.76	39-30-1042
	6	8	.543 (13.80)	.331 (8.40)	WM21365-ND	3.72	3.29	2.19	39-30-1062
	8	7	.709 (18.00)	.496 (12.60)	WM21366-ND	4.54	4.01	2.68	39-30-1082
	10	7	.874 (22.20)	.661 (16.80)	WM21367-ND	5.45	4.81	3.21	39-30-1102
	12	6	1.039 (26.40)	.827 (21.00)	WM21368-ND	6.43	5.68	3.79	39-30-1122
	14	6	1.205 (30.60)	.992 (25.20)	WM21369-ND	7.59	6.70	4.47	39-30-1142
	16	6	1.370 (34.80)	1.158 (29.40)	WM21370-ND	8.80	7.77	5.18	39-30-1162
	18	6	1.535 (39.00)	1.323 (33.60)	WM21371-ND	9.94	8.78	5.85	39-30-1182
	20	6	1.701 (43.20)	1.488 (37.80)	WM21372-ND	11.74	10.36	6.91	39-30-1202
	22	6	1.866 (47.40)	1.654 (42.00)	WM21373-ND	13.26	11.71	7.81	39-30-1222
	24	6	2.031 (51.60)	1.819 (46.20)	WM21374-ND	14.87	13.12	8.75	39-30-1242
Vertical 30µ" Gold Header, UL94V-0 — RoHS Compliant									
6	2	9	.210 (5.40)	.370 (9.40)	WM3832-ND	1.69	1.50	1.00	39-28-9028
	4	8	.380 (9.60)	.535 (13.60)	WM3833-ND	3.83	3.38	2.26	39-28-9048
	6	8	.540 (13.80)	.701 (17.80)	WM3834-ND	4.06	3.58	2.39	39-28-9068
	8	7	.710 (18.00)	.866 (22.00)	WM3835-ND	5.25	4.64	3.09	39-28-9088
	10	7	.870 (22.20)	1.031 (26.20)	WM3836-ND	6.45	5.69	3.80	39-28-9108
	12	6	1.040 (26.40)	1.197 (30.40)	WM3837-ND	7.57	6.68	4.46	39-28-9128
	14	6	1.200 (30.60)	1.362 (34.60)	WM3838-ND	7.58	6.69	4.46	39-28-9148
	16	6	1.370 (34.80)	1.528 (38.80)	WM3839-ND	9.90	8.74	5.83	39-28-9168
	18	6	1.540 (39.00)	1.693 (43.00)	WM3840-ND	11.14	9.83	6.56	39-28-9188
	20	6	1.700 (43.20)	1.858 (47.20)	WM3841-ND	12.37	10.92	7.28	39-28-9208
	24	6	2.030 (54.60)	2.189 (55.60)	WM3842-ND	17.79	15.70	10.47	39-28-9248
Vertical 30µ" Gold Header, UL94V-2 — RoHS Compliant									
6	2	9	.210 (5.40)	.370 (9.40)	WM7335-ND	1.46	1.29	.86	39-29-9024
	4	8	.380 (9.60)	.535 (13.60)	WM7336-ND	2.55	2.25	1.50	39-29-9044
	6	8	.540 (13.80)	.701 (17.80)	WM7337-ND	3.67	3.24	2.16	39-29-9064
	8	7	.710 (18.00)	.866 (22.00)	WM7338-ND	4.76	4.21	2.81	39-29-9084
	10	7	.870 (22.20)	1.031 (26.20)	WM7339-ND	5.79	5.12	3.41	39-29-9104
	12	6	1.040 (26.40)	1.197 (30.40)	WM7340-ND	6.84	6.04	4.03	39-29-9124
	14	6	1.200 (30.60)	1.362 (34.60)	WM7341-ND	8.06	7.12	4.75	39-29-9144
	16	6	1.370 (34.80)	1.528 (38.80)	WM7342-ND	9.53	8.42	5.61	39-29-9164
	18	6	1.540 (39.00)	1.693 (43.00)	WM7343-ND	10.72	9.47	6.31	39-29-9184
	20	6	1.700 (43.20)	1.858 (47.20)	WM7344-ND	11.91	10.52	7.01	39-29-9204
	22	6	1.870 (47.40)	2.024 (51.40)	WM7347-ND	13.14	11.60	7.73	39-29-9224
	24	6	2.030 (51.60)	2.189 (55.60)	WM7345-ND	14.30	12.62	8.42	39-29-9244
Strain Relief (use with Fig. 1) — RoHS Compliant									
11	6	—	—	—	WM13702-ND	2.32	—	—	15-04-0296
	8	—	—	—	WM13703-ND	2.42	—	—	15-04-0343
RoHS Temperature Capable (RTC) Vertical 100µ" Tin Header — RoHS Compliant									
13	4	12	0.38 (9.6)	0.165 (4.20)	WM21375-ND	2.40	2.12	1.42	46207-0004
	6	12	0.54 (13.8)	0.331 (8.40)	WM21376-ND	3.60	3.18	2.12	46207-0006
	8	12	0.71 (18.0)	0.496 (12.60)	WM21377-ND	4.32	3.82	2.55	46207-0008
	10	12	0.87 (22.2)	0.661 (16.80)	WM21378-ND	4.81	4.24	2.83	46207-0010
	12	11	1.04 (26.4)	0.827 (21.00)	WM21379-ND	5.81	5.13	3.43	46207-0012
	24	11	2.03 (51.6)	1.819 (46.20)	WM21380-ND	10.93	9.65	6.44	46207-0024

‡ Without drain holes † Panel Mount § Free-Hanging ◆ ***RoHS Compliant***
∗ 3-circuit receptacle designed for first-mate/last-break applications

molex Mini-Fit BMI™ Connectors

Fig. 1 - Receptacle with Panel Mount Ears

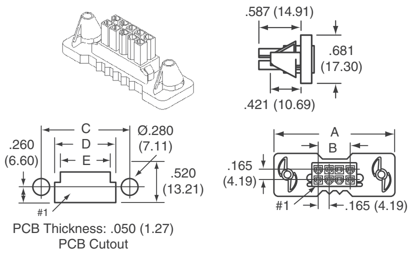

PCB Thickness: .050 (1.27)
PCB Cutout

Fig. 2 - Plug with Panel Mount Ears

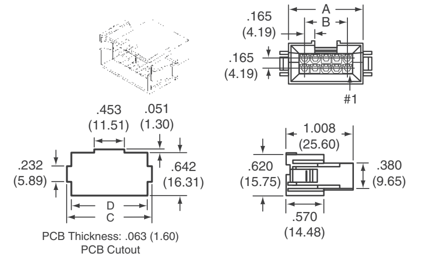

PCB Thickness: .063 (1.60)
PCB Cutout

Fig. 3 - Vertical Receptacle Header

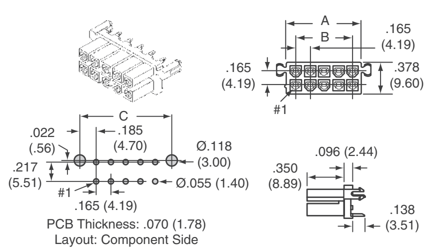

PCB Thickness: .070 (1.78)
Layout: Component Side

Fig. 4 - Vertical Header

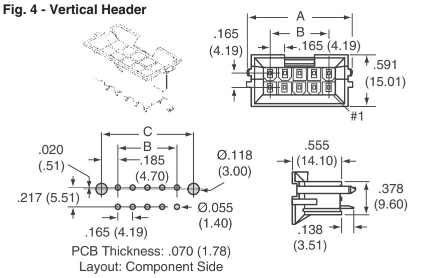

PCB Thickness: .070 (1.78)
Layout: Component Side

Fig. 5 - Right Angle Header

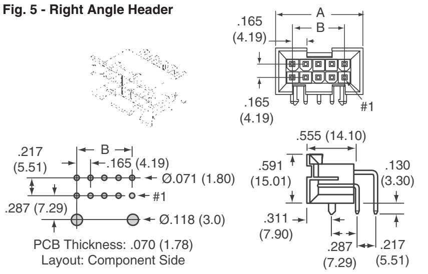

PCB Thickness: .070 (1.78)
Layout: Component Side

Fig. 6 - Vertical Header with Pressfit Tail

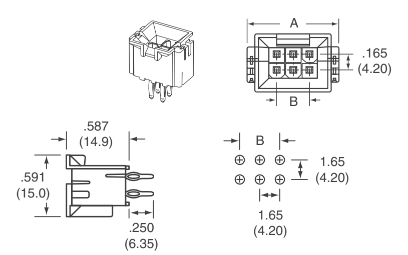

Features and Benefits: • Blind mating • Will mate with Mini-Fit, Jr. • Fully isolated terminals to protect contacts from damage • Uses standard Mini-Fit series terminals • UL File No.: E29179 • CSA File No.: LR19980 • TUV License No.: R75142

Specifications: • **Voltage:** 600V • **Current:** 9.0A • **Contact Resistance:** 10mΩ Maximum • **Dielectric Withstanding Voltage:** 1500V • **Insulation Resistance:** 1000MΩ minimum
Physical: • **Housing:** 6/6 nylon • **Temperature:** -40°C ~ 105°C

Circuits	Dimensions – Inch (mm)					Digi-Key Part No.	Price Each			Molex Part No.
	A	B	C	D	E		1	10	100	
Fig. 1 — Receptacle with Panel Mount Ears, 94V-2 — RoHS Compliant										
4	1.583 (40.2)	.165 (4.2)	1.150 (29.2)	.693 (17.6)	.508 (12.9)	WM17500-ND	.85	.76	.51	15-06-0040
6	1.748 (44.4)	.331 (8.4)	1.315 (33.4)	.858 (21.8)	.673 (17.1)	WM17501-ND	.83	.74	.49	15-06-0060
8	1.913 (48.6)	.496 (12.6)	1.480 (37.6)	1.024 (26.0)	.839 (21.3)	WM17704-ND	1.21	1.07	.72	15-06-0080
10	2.078 (52.8)	.661 (16.8)	1.645 (41.8)	1.189 (30.2)	1.004 (25.5)	WM17502-ND	1.31	1.16	.78	15-06-0100
14	2.409 (61.2)	.992 (25.2)	1.976 (50.2)	1.520 (38.6)	1.335 (33.9)	WM17503-ND	1.79	1.58	1.06	15-06-0140
18	2.740 (69.6)	1.323 (33.6)	2.307 (58.6)	1.850 (47.0)	1.665 (42.3)	WM17705-ND	2.19	1.94	1.29	15-06-0180
24	3.236 (82.2)	1.819 (46.2)	2.803 (71.2)	2.346 (59.6)	2.161 (54.9)	WM1023-ND	3.26	2.88	1.92	15-06-0240
Fig. 1 — Receptacle with Panel Mount Ears, 94V-0 — RoHS Compliant										
4	1.583 (40.2)	.165 (4.2)	1.150 (29.2)	.693 (17.6)	.508 (12.9)	WM17706-ND	1.19	1.06	.71	15-06-0041
6	1.748 (44.4)	.331 (8.4)	1.315 (33.4)	.858 (21.8)	.673 (17.1)	WM17707-ND	1.45	1.28	.86	15-06-0061
10	2.078 (52.8)	.661 (16.8)	1.645 (41.8)	1.189 (30.2)	1.004 (25.5)	WM17708-ND	1.64	1.45	.97	15-06-0101
14	2.409 (61.2)	.992 (25.2)	1.976 (50.2)	1.520 (38.6)	1.335 (33.9)	WM17709-ND	2.24	1.98	1.32	15-06-0141
18	2.740 (69.6)	1.323 (33.6)	2.307 (58.6)	1.850 (47.0)	1.665 (42.3)	WM17710-ND	3.07	2.71	1.81	15-06-0181
24	3.236 (82.2)	1.819 (46.2)	2.803 (71.2)	2.346 (59.6)	2.161 (54.9)	WM17711-ND	4.09	3.62	2.41	15-06-0241
Fig. 2 — Plug with Panel Mount Ears, 94V-2 — RoHS Compliant										
4	.622 (15.8)	.165 (4.19)	.779 (19.79)	.642 (16.31)	—	WM17700-ND	.64	.57	.38	15-06-0045
6	.54 (13.8)	.33 (8.4)	945 (24.0)	.807 (20.5)	—	WM17701-ND	.75	.67	.45	15-06-0065
8	.71 (18.0)	.50 (12.6)	1.110 (28.2)	.972 (24.7)	—	WM17712-ND	.85	.76	.51	15-06-0085
10	.87 (22.2)	.66 (16.8)	1.276 (32.4)	1.138 (28.9)	—	WM17702-ND	.90	.80	.53	15-06-0105
14	1.20 (30.6)	.99 (25.2)	1.606 (40.8)	1.469 (37.3)	—	WM17703-ND	1.26	1.12	.75	15-06-0145
18	1.54 (39.0)	1.32 (33.6)	1.937 (49.2)	1.799 (45.7)	—	WM17719-ND	1.85	1.64	1.10	15-06-0185
24	2.03 (51.6)	1.82 (46.2)	2.433 (61.8)	2.295 (58.3)	—	WM1024-ND	2.46	2.18	1.45	15-06-0245
Fig. 2 — Plug with Panel Mount Ears, 94V-0 — RoHS Compliant										
4	.622 (15.80)	.165 (4.19)	.779 (19.79)	.642 (16.31)	—	WM17713-ND	.80	.71	.48	15-06-0046
6	.54 (13.8)	.33 (8.4)	.945 (24.0)	.807 (20.5)	—	WM17714-ND	.91	.80	.54	15-06-0066
10	.87 (22.2)	.66 (16.8)	1.276 (32.4)	1.138 (28.9)	—	WM17715-ND	1.25	1.11	.74	15-06-0106
14	1.20 (30.6)	.99 (25.2)	1.606 (40.8)	1.469 (37.3)	—	WM17716-ND	1.58	1.40	.94	15-06-0146
18	1.54 (39.0)	1.32 (33.6)	1.937 (49.2)	1.799 (45.7)	—	WM17717-ND	2.60	2.30	1.53	15-06-0186
24	2.03 (51.6)	1.82 (46.2)	2.433 (61.8)	2.295 (58.3)	—	WM17718-ND	3.46	3.05	2.04	15-06-0246
Fig. 3 — Vertical Tin Receptacle Header, 94V-2										
4	.38 (9.6)	.165 (4.2)	.535 (13.6)	—	—	WM17600-ND	1.98	1.75	1.17	15-24-7040
6	.54 (13.8)	.331 (8.4)	.701 (17.8)	—	—	WM17601-ND◆	2.52	2.23	1.49	15-24-7060
10	.87 (22.2)	.661 (16.8)	1.031 (26.2)	—	—	WM17602-ND	3.20	2.83	1.89	15-24-7100
14	1.20 (30.6)	.992 (25.2)	1.362 (34.6)	—	—	WM17603-ND◆	3.70	3.27	2.18	15-24-7140
16	1.37 (34.8)	1.157 (29.4)	1.528 (38.8)	—	—	WM17742-ND◆	4.68	4.14	2.76	15-24-7160
18	1.54 (39.0)	1.323 (33.6)	1.693 (43.0)	—	—	WM17744-ND◆	5.83	5.15	3.43	15-24-7180
24	2.03 (51.6)	1.819 (46.2)	2.189 (55.6)	—	—	WM1025-ND◆	6.92	6.11	4.07	15-24-7240
Fig. 3 — Vertical Gold Header, 94V-0 — RoHS Compliant										
4	.38 (9.6)	.165 (4.2)	.535 (13.6)	—	—	WM17729-ND	3.69	3.26	2.17	15-24-7043
6	.54 (13.8)	.331 (8.4)	.701 (17.8)	—	—	WM17730-ND	5.44	4.80	3.20	15-24-7063
10	.87 (22.2)	.661 (16.8)	1.031 (26.2)	—	—	WM17743-ND	7.45	6.58	4.39	15-24-7103
14	1.20 (30.6)	.992 (25.2)	1.362 (34.6)	—	—	WM17731-ND	11.32	10.00	6.67	15-24-7143
16	1.37 (34.8)	1.157 (29.4)	1.528 (38.8)	—	—	WM17732-ND	12.85	11.34	7.56	15-24-7163
18	1.54 (39.0)	1.323 (33.6)	1.693 (43.0)	—	—	WM17733-ND	14.37	12.68	8.46	15-24-7183
24	2.03 (51.6)	1.819 (46.2)	2.189 (55.6)	—	—	WM17734-ND	19.21	16.95	11.30	15-24-7243

Circuits	Dimensions – Inch (mm)					Digi-Key Part No.	Price Each			Molex Part No.
	A	B	C	D	E		1	10	100	
Fig. 3 — Vertical Tin Header, 94V-0 — RoHS Compliant										
4	.38 (9.6)	.165 (4.2)	.535 (13.6)	—	—	WM17735-ND	2.20	1.94	1.30	15-24-7041
6	.54 (13.8)	.331 (8.4)	.701 (17.8)	—	—	WM17736-ND	2.52	2.23	1.49	15-24-7061
10	.87 (22.2)	.661 (16.8)	1.031 (26.2)	—	—	WM17737-ND	3.60	3.18	2.12	15-24-7101
14	1.20 (30.6)	.992 (25.2)	1.362 (34.6)	—	—	WM17738-ND	4.68	4.13	2.76	15-24-7141
16	1.37 (34.8)	1.157 (29.4)	1.528 (38.8)	—	—	WM17739-ND	5.26	4.65	3.10	15-24-7161
18	1.54 (39.0)	1.323 (33.6)	1.693 (43.0)	—	—	WM17740-ND	5.85	5.17	3.45	15-24-7181
24	2.03 (51.6)	1.819 (46.2)	2.189 (55.6)	—	—	WM17741-ND	7.81	6.89	4.60	15-24-7241
Fig. 4 — Vertical Tin Header, 94V-2 — RoHS Compliant										
4	.685 (17.4)	.170 (4.32)	.535 (13.59)	—	—	WM17900-ND	1.93	1.71	1.14	15-24-6046-P
6	.850 (21.6)	.33 (8.4)	.701 (17.8)	—	—	WM1026-ND	2.55	2.25	1.51	15-24-6066
10	1.181 (30.0)	.660 (16.76)	1.031 (26.19)	—	—	WM17901-ND	3.11	2.75	1.84	15-24-6106-P
14	1.512 (38.4)	.990 (25.15)	1.362 (34.59)	—	—	WM17902-ND	4.04	3.57	2.38	15-24-6146
24	2.339 (59.4)	1.82 (46.2)	2.189 (55.6)	—	—	WM1027-ND	6.75	5.96	3.98	15-24-6246
Fig. 5 — Right Angle Tin Header, 94V-2 — RoHS Compliant										
4	.59 (15.0)	.165 (4.2)	—	—	—	WM17800-ND	1.85	1.64	1.10	15-24-6040
6	.76 (19.2)	.33 (8.4)	—	—	—	WM17801-ND	2.64	2.33	1.56	15-24-6060
10	1.09 (27.6)	.661 (16.8)	—	—	—	WM17802-ND	3.77	3.33	2.22	15-24-6100
14	1.42 (36.0)	.992 (25.2)	—	—	—	WM17803-ND	4.35	3.84	2.56	15-24-6140
18	1.75 (44.4)	1.323 (33.6)	—	—	—	WM17720-ND	5.48	4.84	3.23	15-24-6180
24	2.24 (57.0)	1.819 (46.2)	—	—	—	WM17721-ND	7.30	6.45	4.30	15-24-6240
Fig. 5 — Right Angle Tin Header, 94V-0 — RoHS Compliant										
4	.59 (15.0)	.165 (4.2)	—	—	—	WM17722-ND	2.13	1.88	1.26	15-24-9044
6	.76 (19.2)	.33 (8.4)	—	—	—	WM17723-ND	2.69	2.38	1.59	15-24-9064
10	1.09 (27.6)	.661 (16.8)	—	—	—	WM17724-ND	3.85	3.40	2.27	15-24-9104
14	1.42 (36.0)	.992 (25.2)	—	—	—	WM17725-ND	4.99	4.41	2.94	15-24-9144
16	1.58 (40.2)	1.157 (29.4)	—	—	—	WM17726-ND	5.63	4.97	3.32	15-24-9164
18	1.75 (44.4)	1.323 (33.6)	—	—	—	WM17727-ND	6.26	5.53	3.69	15-24-9184
24	2.24 (57.0)	1.819 (46.2)	—	—	—	WM17728-ND	8.35	7.37	4.92	15-24-9244
Fig. 6 — Vertical Header with Pressfit Tail, 94V-0 — RoHS Compliant										
4	.740 (18.81)	.165 (4.2)	—	—	—	WM17804-ND	4.97	4.39	2.93	43879-0022
6	.906 (23.01)	.331 (8.4))	—	—	—	WM17805-ND	6.28	5.55	3.70	43879-0023
10	1.237 (31.41)	.661 (16.8)	—	—	—	WM17806-ND	8.99	7.93	5.29	43879-0025
14	1.567 (39.81)	.992 (25.2)	—	—	—	WM17807-ND	12.05	10.63	7.09	43879-0027
18	1.898 (48.21)	1.323 (33.6)	—	—	—	WM17808-ND	14.74	13.01	8.68	43879-0029
24	2.394 (60.81)	1.819 (46.2)	—	—	—	WM17809-ND	22.83	20.14	13.43	43879-0032

◆ ***RoHS Compliant***

Description	Wire Size (AWG)	Material/ Plating	Insulation Diameter Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Male	16	Tin-Plated copper alloy over nickel	.071~.122 (1.80~3.10)	WM1911-ND◆	.33	2.73	19.47	44478-3112
Female				WM1913-ND◆	.33	2.73	19.47	44476-3112
Female				WM1913CT-ND◆‡ ***NEW!***	—	—	19.96	44476-3111
Female				WM1913TR-ND◆† ***NEW!***	400.00/4,000			44476-3111
Male	18~20	Tin-Plated copper alloy over nickel	.051~.122 (1.30~3.10)	WM1912-ND◆	.33	2.73	19.47	44478-1112
Male				WM1912CT-ND◆‡ ***NEW!***	—	—	22.44	44478-1111
Male				WM1912TR-ND◆† ***NEW!***	448.00/4,000			44478-1111
Female				WM1914-ND◆	.37	3.06	21.86	44476-1112
Female	18~24	Gold-plated phosphor bronze over nickel	.060~.120 (1.52~3.05)	WM18523-ND◆	1.04	8.54	60.99	44485-1212

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel

Mini-Fit Jr.™ Terminals

Contact Material/Plating

A: Tin-plated copper alloy over nickel
B: Gold-plated phosphor bronze over nickel
C: Gold-plated brass over nickel
D: Tin-plated brass over copper
E: Tin-plated phosphor bronze.

Male

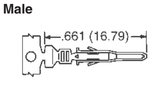

Female

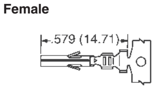

Description	Wire Size	Material/ Plating	Insulation Dia. Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Male	16	A	.071 ~ .122 (1.80 ~ 3.10)	WM1911-ND◆	.33	2.73	19.47	44478-3112
Female				WM1913-ND◆	.33	2.73	19.47	44476-3112
Male	16	B	.071 ~ .122 (1.80 ~ 3.10)	WM18520-ND◆	.98	8.06	57.57	39-00-0224
Female				WM18517-ND◆	1.01	8.30	59.30	39-00-0186
Male	16	C	.122 (3.10)	WM5963-ND◆	.74	6.11	43.63	39-00-0096
				WM5963TR-ND§◆	1160.00/4,000			39-00-0095
Female	16	C	.071 ~ .122 (1.80 ~ 3.10)	WM5961-ND◆	.76	6.23	44.48	39-00-0168
				WM5961TR-ND§◆	1184.00/4,000			39-00-0167
Female	16	D	.122 (3.10)	WM3112CT-ND◊◆	—	.52	4.20	39-00-0077
				WM3112TR-ND§◆	112.00/4,000			39-00-0077
Female	16	E	.122 (3.10)	WM3113CT-ND◊◆	—	1.29	10.30	39-00-0079
				WM3113TR-ND§◆	276.00/4,000			39-00-0079
Male	16	D	.122 (3.10)	WM1016-ND◆	.17	1.53	10.18	39-00-0082
				WM1016TR-ND§◆	124.00/4,000			39-00-0081
Male	16	E	.122 (3.10)	WM3114CT-ND◊◆	—	1.52	12.17	39-00-0083
				WM3114TR-ND§◆	324.00/4,000			39-00-0083
Female	16	C	.122 (3.10)	WM3115-ND◆	.68	5.62	40.14	39-00-0090
				WM3115TR-ND§◆	936.00/4,000			39-00-0089
Female	16	B	.122 (3.10)	WM3121-ND◆	.90	7.42	52.97	39-00-0158
Female	16	E	071 ~ .122 (1.80 ~ 3.10)	WM3118CT-ND◊◆	—	1.81	14.50	39-00-0217
				WM3118TR-ND§◆	388.00/4,000			39-00-0217
Male	18-24	D	.051 ~ .122 (1.30 ~ 3.10)	WM2500-ND◆	—	1.42	10.18	39-00-0041
				WM2500CT-ND◊◆	—	—	6.22	39-00-0040
				WM2500TR-ND§◆	124.00/4,000			39-00-0040
Female	18-24	D	.051 ~ .122 (1.30 ~ 3.10)	WM2501-ND◆	—	1.37	9.76	39-00-0039
				WM2501CT-ND◊◆	—	—	5.60	39-00-0038
				WM2501TR-ND§◆	112.00/4,000			39-00-0038
Male	18-24	B	·051 ~ .122 (1.30 ~ 3.10)	WM18521-ND◆	.98	8.06	57.57	39-00-0220
				WM18521TR-ND§◆	1584.00/4,000			39-00-0219
Female	18-24	B	.051 ~ .122 (1.30 ~ 3.10)	WM18518-ND◆	1.01	8.30	59.30	39-00-0182
				WM18518CT-ND◊◆	—	—	42.86	39-00-0181
				WM18518TR-ND§◆	1372.00/4,000			39-00-0181
Male	18-20	A	.051 ~ .122 (1.30 ~ 3.10)	WM1912-ND◆	.33	2.73	19.47	44478-1112
Female				WM1914-ND◆	.37	3.06	21.86	44476-1112

Description	Wire Size	Material/ Plating	Insulation Dia. Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Female	18-24	B	.060 ~ .120 (1.52 ~ 3.05)	WM18523-ND◆	1.04	8.54	60.99	44485-1212
Male	18-24	D	.051 ~ .122 (1.30 ~ 3.10)	WM3940-ND*◆	.32	2.60	18.55	30490-2012
		C		WM6049-ND	.74	6.11	43.63	39-00-0054
Female	18-24	C	.051 ~ .122 (1.30 ~ 3.10)	WM5959-ND◆	.76	6.23	44.48	39-00-0164
Female		C		WM5959TR-ND§◆	1060.00/4,000			39-00-0163
Male		B		WM3941-ND*◆	.96	7.87	56.24	30490-1012
Female	18-24	C	.051 ~ .122 (1.30 ~ 3.10)	WM1014-ND	.74	6.54	43.63	39-00-0056
Female	18-24	E	.051 ~ .122 (1.30 ~ 3.10)	WM1138CT-ND◊◆	—	.93	7.46	39-00-0059
				WM1138TR-ND§◆	164.00/4,000			39-00-0059
Female	18-24	E	.051 ~ .122 (1.30 ~ 3.10)	WM1015-ND◆	.26	2.29	15.25	39-00-0060
Male	18-24	E	.051 ~ .122 (1.30 ~ 3.10)	WM1017-ND◆	.26	2.29	15.25	39-00-0062
				WM1017TR-ND§◆	276.00/4,000			39-00-0061
Female	18-24	B	.051 ~ .122 (1.30 ~ 3.10)	WM1139-ND◆	.90	7.42	52.97	39-00-0154
				WM1139CT-ND◊◆	—	3.86	30.87	39-00-0153
				WM1139TR-ND§◆	684.00/4,000			39-00-0153
Female	18-24	D	.051 ~ .122 (1.30 ~ 3.10)	WM3116CT-ND◊◆	—	.87	7.00	39-00-0207
				WM3116TR-ND§◆	188.00/4,000			39-00-0207
Female	18-24	E	.051 ~ .122 (1.30 ~ 3.10)	WM3117CT-ND◊◆	—	1.81	14.50	39-00-0213
				WM3117TR-ND§◆	388.00/4,000			39-00-0213
Male	18-24	C	.051 ~ .122 (1.30 ~ 3.10)	WM3119CT-ND◊◆	—	5.10	40.83	39-00-0430
				WM3119TR-ND§◆	1088.00/4,000			39-00-0430
Male	22-28	D	.035 ~ .071 (.90 ~ 1.80)	WM2502-ND◆	—	1.42	10.18	39-00-0049
Male				WM2502TR-ND§◆	186.00/6,000			39-00-0048
Female				WM2503-ND◆	—	1.37	9.76	39-00-0047
Female				WM2503TR-ND§◆	168.00/6,000			39-00-0046
Male	22-28	B	.035 ~ .071 (.90 ~ 1.80)	WM18522-ND◆	.98	8.06	57.57	39-00-0222
Female				WM18519-ND◆	1.01	8.30	59.30	39-00-0184
Female				WM18519TR-ND§◆	2058.00/6,000			39-00-0183
Male	22-28	C	.035 ~ .071 (.90 ~ 1.80)	WM5962-ND◆	.74	6.11	43.63	39-00-0088
Female				WM5960-ND◆	.76	6.23	44.48	39-00-0166
Female				WM5960TR-ND§◆	1590.00/6,000			39-00-0165
Female	22-28	E	.035 ~ .071 (.90 ~ 1.80)	WM3111CT-ND◊◆	—	1.29	10.30	39-00-0065
				WM3111TR-ND§◆	414.00/6,000			39-00-0065
Female	22-28	B	.035 ~ .071 (.90 ~ 1.80)	WM3120-ND◆	.90	7.42	52.97	39-00-0156
				WM3120CT-ND◊◆ ***NEW!***	—	—	52.97	39-00-0155
				WM3120TR-ND§◆ ***NEW!***	1590.00/6,000			39-00-0155
Universal Crimp Tool (Molex)................				WM9999-ND	50.75	—	—	63811-1000
Mini-Fit Jr. Crimp Tool, 16~24 AWG.........				WM9996-ND	243.27	—	—	63811-5000
Mini-Fit Jr. Crimp Tool, 22~28 AWG.........				WM9014-ND	259.49	—	—	63811-5100
Extraction Tool..............................				WM9918-ND	20.14	—	—	11-03-0044

* Grounding pin ◊ Cut Tape § Tape and Reel ◆ ***RoHS Compliant***

Mini-Fit, HCS™ Connectors

Dual Row, Vertical, Without Pegs

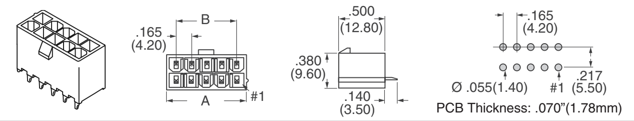

Cir- cuits	Amps	Dimensions — Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	12	.210 (5.40)	—	WM18449-ND◆	1.29	1.14	.76	44472-0254
4	11	.380 (9.60)	.170 (4.20)	WM18450-ND◆	1.94	1.72	1.15	44472-0454
6	11	.540 (13.80)	.330 (8.40)	WM18451-ND◆	2.59	2.29	1.53	44472-0654
8	10	.710 (18.00)	.500 (12.60)	WM18452-ND◆	3.68	3.25	2.17	44472-0854
10	10	.870 (22.20)	.660 (16.80)	WM18453-ND	3.87	3.42	2.28	44472-1054
12	9	1.040 (26.40)	.830 (21.00)	WM18454-ND◆	4.20	3.71	2.48	44472-1254
14	9	1.200 (30.60)	.990 (25.20)	WM18455-ND◆	5.17	4.56	3.04	44472-1454
16	9	1.370 (34.80)	1.160 (29.40)	WM18456-ND◆	5.95	5.25	3.50	44472-1654

◆ ***RoHS Compliant***

5.08mm Disk Drive Power Connection System

Fig. 1 - Receptacle Housing

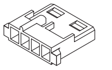

Fig. 2 - Vertical Header

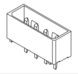

Fig. 3 - Right Angle Header

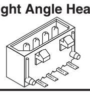

Fig.	Cir- cuit	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	4	Receptacle Housing	WM6982-ND	.83	.73	.49	15-24-4048
2	4	Vertical Header	WM6987-ND	2.33	2.06	1.37	15-24-4557
3	4	Right Angle Header	WM6988-ND	2.00	1.77	1.18	15-24-4441

Power Connection Terminals

Description	Wire Size	Max. Insulation Diameter Inch(mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Female	AWG 14-20	.133(3.39)	WM6983-ND	.27	.24	.16	02-08-1202
Universal Crimp Tool (Molex)........................			WM9999-ND	50.75/1			63811-1000
Manual Wire Stripper (Molex)			WM9969-ND	84.59/1			63817-0000

Mini-Fit, SMC™ Connectors

Surface Mount Compatible Headers, Dual Row

Fig.	Cir- cuits	Dimension — Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	4	.740 (18.81)	.165 (4.20)	.653 (16.60)	WM18457-ND◆	4.24	3.75	2.50	43810-0001
	6	.906 (23.01)	.331 (8.40)	.819 (20.80)	WM18458-ND◆	5.32	4.69	3.13	43810-0002
	10	1.237 (31.41)	.661 (16.80)	1.150 (29.20)	WM18459-ND◆	7.57	6.69	4.46	43810-0004
2	4	.740 (18.81)	.165 (4.20)	.653 (16.60)	WM18460-ND	3.83	3.38	2.26	44068-0001
	6	.906 (23.01)	.331 (8.40)	.819 (20.80)	WM18461-ND	4.80	4.24	2.83	44068-0002
	10	1.237 (31.41)	.661 (16.80)	1.150 (29.20)	WM18462-ND	6.26	5.53	3.69	44068-0004

◆ ***RoHS Compliant***

Fig. 1 – Right Angle

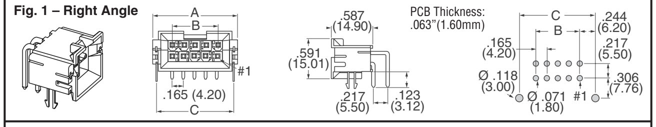

Fig. 2 – Vertical

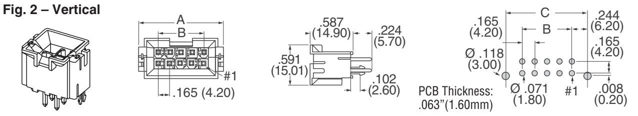

Mini-Fit, Sr.™ Connectors (50 Amps)

Features: • High current (50 amp) • Fully polarized • Positive locks • Low engagement force • Wire-to-wire, wire-to-board **Electrical:** • Voltage: 600V • Current: 50A maximum **Physical:** • Housing: Polyester • Contact: Copper alloy • Plating: Tin/lead over nickel • Temperature: -40°C ~ 105°C **Approvals:** • UL File No.: E29179 • CSA File No.: LR19980 • TUV License No.: R9751144

Fig. 1

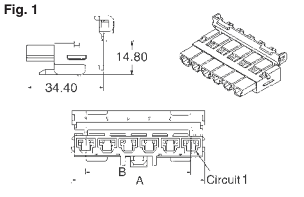

Fig. 2

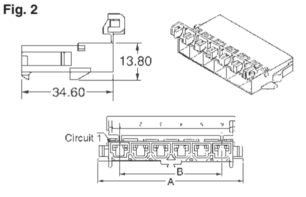

Fig. 3

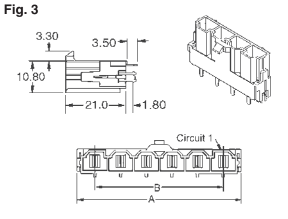

Fig. 4

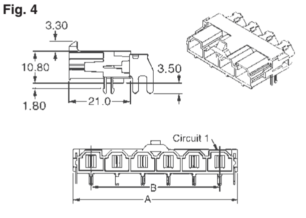

Fig.	Circuits	Dimensions (mm) A	B	Plating	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Mini-Fit, Sr. Receptacle Housing									
1	2	23.50	10.00	Tin	WM1927-ND◆	1.78	1.57	1.05	42816-0212
	3	33.50	20.00	Tin	WM1928-ND◆	2.00	1.77	1.18	42816-0312
	4	43.50	30.00	Tin	WM1929-ND◆	2.22	1.97	1.31	42816-0412
	5	53.50	40.00	Tin	WM1930-ND◆	2.45	2.16	1.44	42816-0512
	6	63.50	50.00	Tin	WM1931-ND	2.70	2.38	1.59	42816-0612
Mini-Fit, Sr. Plug Housing — Panel Mount — RoHS Compliant									
2	2	31.30	10.00	Tin	WM1932-ND	1.85	1.64	1.09	42818-0212
	3	41.30	20.00	Tin	WM1933-ND	2.08	1.84	1.23	42818-0312
	4	51.30	30.00	Tin	WM1934-ND	2.31	2.05	1.37	42818-0412
	5	61.30	40.00	Tin	WM1935-ND	2.54	2.25	1.50	42818-0512
	6	71.30	50.00	Tin	WM1936-ND	2.78	2.45	1.64	42818-0612
Mini-Fit, Sr. Header — Vertical with Metal Clip Mount (Surface Mount Compatible) — RoHS Compliant									
3	2	23.82	10.00	Tin	WM1937-ND	3.64	3.22	2.15	42819-2212
	3	33.82	20.00	Tin	WM1938-ND	4.73	4.18	2.79	42819-3212
	4	43.82	30.00	Tin	WM1939-ND	5.43	4.80	3.20	42819-4212
	5	53.82	40.00	Tin	WM1940-ND	6.95	6.14	4.10	42819-5212
	6	63.82	50.00	Tin	WM1941-ND	8.23	7.27	4.85	42819-6212
Mini-Fit, Sr. Header — Right Angle with Metal Clip Mount (Surface Mount Compatible) — RoHS Compliant									
4	2	23.82	10.00	Tin	WM1942-ND	4.92	4.35	2.90	42820-2212
	3	33.82	20.00	Tin	WM1943-ND	6.65	5.87	3.92	42820-3212
	4	43.82	30.00	Tin	WM1944-ND	7.99	7.05	4.70	42820-4212
	5	53.82	40.00	Tin	WM1945-ND	9.28	8.20	5.47	42820-5212
	6	63.82	50.00	Tin	WM1946-ND	10.97	9.68	6.46	42820-6212

◆ *RoHS Compliant*

Mini-Fit, Sr.™ Terminals

RoHS COMPLIANT

Fig. 1

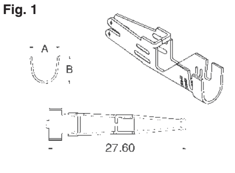

Fig. 2

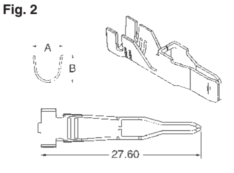

Fig.	Wire Size AWG	Dimension (mm) A	B	Plating	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Mini-Fit, Sr. Terminal — Female									
1	8	6.00	5.50	Tin Gold	WM1915-ND WM1949-ND	.71 1.12	.63 1.00	.42 .67	42815-0031-C 42815-0032-C
	10-12	5.90	6.60	Tin Gold	WM1947-ND WM1951-ND	.71 1.12	.63 1.00	.42 .67	42815-0011-C 42815-0012-C
Mini-Fit, Sr. Terminal — Male									
2	8	6.00	5.50	Tin Gold	WM1916-ND WM1950-ND	.71 1.12	.63 1.00	.42 .67	42-817-0031 42-817-0032
	10-12	5.90	6.60	Tin Gold	WM1948-ND WM1952-ND	.71 1.12	.63 1.00	.42 .67	42-817-0011 42-817-0012
Crimp Tool, 8AWG					WM9960-ND	343.44	—	—	63811-1500
Crimp Tool, 10-12AWG..............................					WM9962-ND	343.44	—	—	63811-1600
Extraction Tool.......................................					WM9961-ND	100.70	—	—	63813-0400

7.50 Pitch Sabre™ Connectors

RoHS COMPLIANT

Features and Benefits: • Patented new integral Terminal Position Assurance (TPA) on mated male and female terminal • Virtually eliminates terminal backout • Wire-to-wire and wire-to-board connector system • Polarized housing assures proper mating • Terminals are fully isolated in housing • Positive latch reduces accidental disengagement from plug **Electrical:** • Voltage: 1000V • Current: 18A • Contact Resistance: 10mΩ maximum • Dielectric Withstanding Voltage: 5000VAC, 1 minute • Insulation Resistance: 1000MΩ minimum **Mechanical:** • Contact Insertion Force: 2 pounds maximum • Contact Retention to Housing: 20 pounds minimum • Wire Pull-Out Force: 20 pounds minimum • Mating Force: 3 pounds maximum • Unmating Force: 1 pound minimum • Normal Force: 3 pounds nominal • Durability: 25 cycles **Physical:** • Housing: Nylon, 94V-0 • Temperature: -40°C ~ 75°C • Approvals: UL File No.: E29179 and Ul1950; CSA File No.: LR19980

Fig. 1 – Receptacle

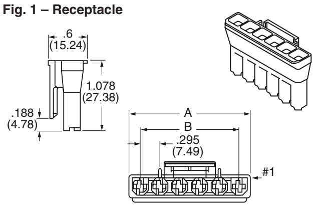

Fig. 2 – Wire-to-Wire Plug

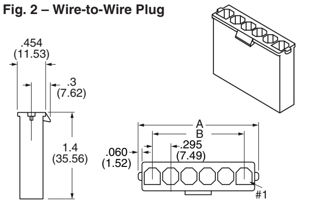

Fig. 3 – Vertical Wire-to-Board Header

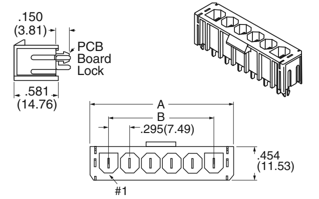

.002” (.062mm) PCB thickness on headers with board lock

Fig. 4 – Right Angle Wire-to-Board Header

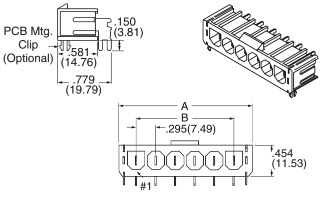

.002” (.062mm) PCB thickness on headers with board lock

Fig.	Cir-cuits	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Single Row Receptacle								
1	2	.623 (15.82)	.295 (7.49)	WM18463-ND	1.02	.91	.61	44441-2002
	3	.918 (23.32)	.590 (14.99)	WM18464-ND	1.13	1.00	.67	44441-2003
	4	1.213 (30.81)	.885 (22.48)	WM18465-ND	1.36	1.20	.80	44441-2004
	5	1.508 (38.30)	1.180 (29.97)	WM18466-ND	1.59	1.40	.94	44441-2005
	6	1.803 (45.80)	1.475 (37.47)	WM18467-ND	1.79	1.58	1.06	44441-2006
Single Row Plug								
2	2	.745 (18.92)	.295 (7.49)	WM18468-ND	1.02	.90	.60	43680-2002
	3	1.040 (26.42)	.590 (14.99)	WM18469-ND	1.20	1.06	.71	43680-2003
	4	1.335 (33.91)	.885 (22.48)	WM18470-ND	1.37	1.21	.81	43680-2004
	5	1.630 (41.40)	1.180 (29.97)	WM18471-ND	1.59	1.40	.94	43680-2005
	6	1.925 (48.90)	1.475 (37.47)	WM18472-ND	1.79	1.58	1.06	43680-2006
Vertical Header (Surface Mount Compatible) — Without Board Lock								
3	2	.830 (21.08)	.295 (7.49)	WM18473-ND	2.00	1.77	1.18	43160-0102
	3	1.125 (28.58)	.590 (14.99)	WM18474-ND	2.74	2.42	1.62	43160-0103
	4	1.420 (36.07)	.885 (22.48)	WM18475-ND	2.87	2.54	1.69	43160-0104
	5	1.715 (43.56)	1.180 (29.97)	WM18476-ND	3.32	2.93	1.96	43160-0105
	6	2.010 (51.05)	1.475 (37.47)	WM18477-ND	3.75	3.32	2.21	43160-0106
Vertical Header (Surface Mount Compatible) — With Board Lock								
3	2	.830 (21.08)	.295 (7.49)	WM18478-ND	2.03	1.80	1.20	43160-2102
	3	1.125 (28.58)	.590 (14.99)	WM18479-ND	2.45	2.17	1.45	43160-2103
	4	1.420 (36.07)	.885 (22.48)	WM18480-ND	3.24	2.86	1.91	43160-2104
	5	1.715 (43.56)	1.180 (29.97)	WM18481-ND	3.35	2.96	1.98	43160-2105
	6	2.010 (51.05)	1.475 (37.47)	WM18482-ND	3.77	3.34	2.23	43160-2106
Right Angle Header (Surface Mount Compatible) — Without Board Lock								
4	2	.830 (21.08)	.295 (7.49)	WM18483-ND	2.20	1.94	1.30	43160-1102
	3	1.125 (28.58)	.590 (14.99)	WM18484-ND	2.67	2.36	1.58	43160-1103
	4	1.420 (36.07)	.885 (22.48)	WM18485-ND	3.14	2.78	1.85	43160-1104
	5	1.715 (43.56)	1.180 (29.97)	WM18486-ND	3.62	3.20	2.13	43160-1105
	6	2.010 (51.05)	1.475 (37.47)	WM18487-ND	4.09	3.62	2.41	43160-1106
Right Angle Header (Surface Mount Compatible) — With Board Lock								
4	2	.830 (21.08)	.295 (7.49)	WM18488-ND	2.27	2.00	1.34	43160-3102
	3	1.125 (28.58)	.590 (14.99)	WM18489-ND	2.70	2.39	1.59	43160-3103
	4	1.420 (36.07)	.885 (22.48)	WM18490-ND	3.51	3.10	2.07	43160-3104
	5	1.715 (43.56)	1.180 (29.97)	WM18491-ND	3.95	3.49	2.33	43160-3105
	6	2.010 (51.05)	1.475 (37.47)	WM18492-ND	4.03	3.56	2.37	43160-3106

7.50 Pitch Sabre™ Terminals

RoHS COMPLIANT

Desc.	Wire Size AWG	Max. Insul. Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Female	14-18	.130 (3.30)	WM18493-ND	.16	.15	.10	43-375-0001
Male	(1)18	.130 (3.30)	WM18495-ND	.20	.18	.12	43-178-1002
Female Male	14-18, (2)18	.180 (4.57)	WM18494-ND WM18496-ND	.16 .20	.15 .18	.10 .12	43-375-1001 43-178-2002

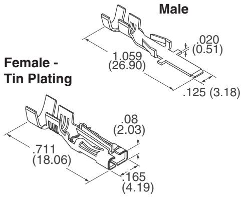

Sabre™ Tools

Description	Digi-Key Part No.	Price Each	Molex Part No.
Crimp Tool for 14-18AWG - Female, 18AWG Male	WM1618-ND★	321.98	63811-7200
Crimp Tool for 18 or (2) 18AWG - Female	WM1563-ND	343.44	63811-0500
Crimp Tool for 14-18AWG or (2) 18AWG - Female	WM1617-ND	321.98	63811-7300
Crimp Tool for 14-18 or (2) 18AWG - Male	WM1562-ND	357.75	63811-2100
Extraction Tool - Female	WM9909-ND	31.72	63813-0500
Extraction Tool - Male	WM9910-ND	85.86	63813-0800
Manual Wire Stripper-(Molex)	WM9969-ND	84.59	63817-0000

★ Will not crimp (2) 18AWG contacts.

Power Connectors

.062" Diameter Connectors

Features: • UL File Number E-29179; CSA File Number LR-19980 • Up to 5 amperes per circuit • 250 Voltage rating • Friction lock • Standard color is natural (*Ratings are per circuit and based on fully loaded housings.)*

Grid Patterns
(Contacts sold separately)

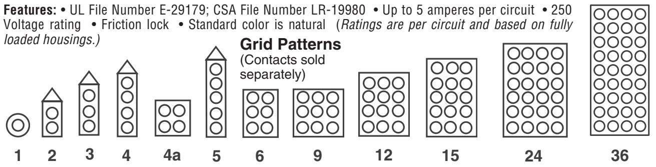

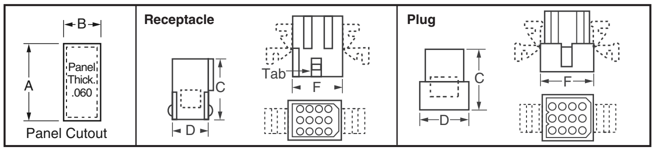

Grid Space	Grid No.	Type	Maximum Amps	V.	Dimensions (Inch) A	B	C	D	F	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Connector Housings — with Detent Only, Free Hanging														
.145"	1	Plug	5	250	—	—	.750	—	—	WM1201-ND	.19	1.53	10.92	03-06-2011
		Recept.	5	250	—	—	.780	—	.183	WM1200-ND	.19	1.53	10.92	03-06-1011
	2	Plug	5	250	.609	.318	.780	.300	.440	WM1220-ND	.29	2.38	17.01	03-06-2023
		Recept.	5	250	.505	.265	.810	.192	.340	WM1230-ND	.29	2.38	17.01	03-06-1023
	3	Plug	5	250	.754	.318	.750	.300	.590	WM1221-ND	.36	2.99	21.36	03-06-2032
		Recept.	5	250	.650	.265	.780	.192	.484	WM1231-ND	.36	2.99	21.36	03-06-1032
	4	Plug	5	250	.865	.312	.750	.295	.730	WM1222-ND	.51	4.21	30.10	03-06-2042
		Recept.	5	250	.785	.260	.780	.192	.630	WM1232-ND	.51	4.21	30.10	03-06-1042
	4a	Plug	5	250	.615	.465	.750	.442	.442	WM1223-ND	.51	4.21	30.10	03-06-2044
		Recept.	5	250	.506	.400	.750	.339	.339	WM1233-ND	.51	4.21	30.10	03-06-1044
	5	Plug	5	250	1.044	.318	.750	.310	.890	WM1224-ND	.56	4.59	32.82	03-06-2055
		Recept.	5	250	.940	.265	.780	.192	.775	WM1234-ND	.56	4.59	32.82	03-06-1056
	6	Plug	5	250	.615	.607	.750	.600	.450	WM1225-ND	.57	4.72	33.72	03-06-2061
		Recept.	5	250	.552	.505	.780	.494	.344	WM1235-ND	.57	4.72	33.72	03-06-1062
	9	Plug	5	250	.752	.615	.750	.590	.590	WM1226-ND	.59	4.85	34.62	03-06-2092
		Recept.	5	250	.650	.552	.780	.494	.489	WM1236-ND	.59	4.85	34.62	03-06-1092
	12	Plug	5	250	.903	.614	.750	.590	.740	WM1227-ND	.60	4.97	35.51	03-06-2122
		Recept.	5	250	.795	.563	.780	.494	.634	WM1237-ND	.60	4.97	35.51	03-06-1122
	15	Plug	5	250	1.042	.614	.750	.590	.880	WM1228-ND	.76	6.23	44.52	03-06-2152
		Recept.	5	250	.934	.563	.780	.487	.776	WM1238-ND	.76	6.23	44.52	03-06-1152
	24	Plug	5	250	1.182	.765	.750	.740	1.040	WM1229-ND	2.10	17.31	123.61	03-06-2242
Connector Housings – with Mounting Ears and Detent, Panel Mount														
.145"	2	Plug	5	250	.609	.318	.780	.300	.440	WM1203-ND	.29	2.38	17.01	03-06-2024
		Recept.	5	250	.505	.265	.810	.192	.340	WM1202-ND	.29	2.38	17.01	03-06-1022
	3	Plug	5	250	.754	.318	.750	.300	.590	WM1205-ND	.36	2.99	21.36	03-06-2033
		Recept.	5	250	.650	.265	.780	.192	.484	WM1204-ND	.36	2.99	21.36	03-06-1038
	4	Plug	5	250	.865	.312	.750	.295	.730	WM1207-ND	.53	4.38	31.29	03-06-2041
		Recept.	5	250	.785	.260	.780	.192	.630	WM1206-ND	.51	4.21	30.10	03-06-1041

Grid Space	Grid No.	Type	Maximum Amps	V.	Dimensions (Inch) A	B	C	D	F	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
.145"	4a	Plug	5	250	.615	.465	.750	.442	.442	WM1209-ND	.51	4.21	30.10	03-06-2043
		Recept.	5	250	.506	.400	.750	.339	.339	WM1208-ND	.51	4.21	30.10	03-06-1043
	5	Plug	5	250	1.044	.318	.750	.310	.890	WM1240-ND	.56	4.59	32.82	03-06-2054
		Recept.	5	250	.940	.265	.780	.192	.775	WM1241-ND	.56	4.59	32.82	03-06-1055
	6	Plug	5	250	.615	.607	.750	.600	.450	WM1211-ND	.57	4.72	33.72	03-06-2062
		Recept.	5	250	.552	.505	.780	.494	.344	WM1210-ND	.57	4.72	33.72	03-06-1061
	9	Plug	5	250	.752	.615	.750	.590	.590	WM1213-ND	.59	4.85	34.62	03-06-2091
		Recept.	5	250	.650	.552	.780	.494	.489	WM1212-ND	.62	5.10	36.44	03-06-1091
	12	Plug	5	250	.903	.614	.750	.590	.740	WM1215-ND	.60	4.97	35.51	03-06-2121
		Recept.	5	250	.795	.563	.780	.494	.634	WM1214-ND	.60	4.97	35.51	03-06-1121
	15	Plug	5	250	1.042	.614	.750	.590	.880	WM1217-ND	.76	6.23	44.52	03-06-2151
		Recept.	5	250	.930	.569	.780	.530	.770	WM1589-ND	.75	6.60	44.03	03-06-6155
	24	Plug	5	250	1.182	.765	.750	.740	1.040	WM1219-ND	2.10	17.31	123.61	03-06-2241
		Recept.	5	250	1.079	.715	.750	.634	.918	WM1218-ND	2.03	16.68	119.13	03-06-1241
.165"	36	Plug	4	—	1.795	.825	.750	1.02	1.622	WM1588-ND	2.48	21.88	145.86	03-06-2361
		Recept.	4	—	1.677	.707	.781	.855	1.505	WM1587-ND	2.41	21.27	141.79	03-06-1361

.062" Terminals

Features: • Use with .062" housings • .008" stock 70/30 brass **Temp. Range:** -40°C ~ 105°C **High Volt. Test:** Withstands 1500V RMS for 60 seconds **Current Rating:** Amperage rating 5A **Storage Temperature Range:** -40°C ~ 125°C **Plating:** 200-300µ Hot-Tin Dip tin plating

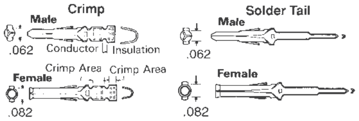

Description	Wire Size	Insulation Dia. (Inch)	Digi-Key Part No.	Pricing 10	100	500	Mfr. Part No.
Male, Crimp Type	18~24	.060/.120	WM1000-ND	1.08	8.62	35.91	02-06-2103
Female, Crimp Type	18~24	.060/.120	WM1001-ND	.95	7.60	31.68	02-06-1103
Male, Crimp Type	24~30	.040/.090	WM1002-ND	1.00	7.97	33.21	02-06-2132
Female, Crimp Type	24~30	.040/.090	WM1003-ND	.95	7.56	31.50	02-06-1132
Female, Crimp Type	24~30	.040/.090	WM1003CT-ND§ ***NEW!***	—	5.99	24.34	02-06-1131
Female, Crimp Type	24~30	.040/.090	WM1003TR-NDΔ ***NEW!***	600.00/20,000			02-06-1131
Male, PCB Solder-Tail	—	—	WM1004-ND	1.37	10.92	45.51	02-06-8103
Female, PCB Solder-Tail	—	—	WM1005-ND	1.37	10.92	45.51	02-06-7103
Male, Crimp Type	18~24	.060/.120	WM1006-ND†	6.03	48.25	201.05	02-06-6103
Male, Crimp Type	24~30	.040/.090	WM1007-ND†	6.03	48.25	201.05	02-06-6135
Female, Crimp Type	18~24	.060/.120	WM1008-ND†	6.03	48.25	201.05	02-06-5103
Female, Crimp Type	18~24	.060/.120	WM1008CT-ND†§ ***NEW!***	—	52.97	215.20	02-06-5100
Female, Crimp Type	18~24	.060/.120	WM1008TR-ND†Δ ***NEW!***	1590.00/6,000			02-06-5100
Female, Crimp Type	24~30	.040/.090	WM1009-ND†	6.03	48.25	201.05	02-06-5135
Male, PCB	—	—	WM1010-ND†	6.69	53.55	223.14	02-06-6122
Female, PCB	—	—	WM1011-ND†	6.69	53.55	223.14	02-06-7104
Hand Crimp Tool (Waldom)	18~30	—	WM9900-ND	15.31/1			W-HT-1921
Hand Extraction Tool (Waldom)	18~30	—	WM1586-ND	20.95/1			W-HT-2023
Universal Crimp Tool (Molex)	—	—	WM9999-ND	50.75/1			63811-1000
Production Tool (Molex)	24~30	—	WM9915-ND	228.96/1			11-01-0185
Production Tool (Molex)	18~24	—	WM18585-ND	259.49/1			63811-3300
Extraction Tool (Molex)	—	—	WM9929-ND	16.92/1			11-03-0002

† 15µ" Select Gold Finish § Cut Tape Δ Tape and Reel

Cable Connector Designer Kit

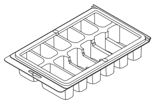

Contains all parts needed to assemble male and female connectors; totals 86 connectors. All have pin terminal size .062" diameter with crimping tool, pin terminal ejector and case.

WM9979-ND.. **$53.88**

MLX™ .084" Power Connectors

Features: • Intermateable, intermountable and interchangeable with industry standard versions • Cross tested to assure industry compatibility • UL recognized, CSA certified • Positive locks • Fully isolated contacts • Circuit I.D. grooves to reduce assembly errors • Anti-stress positioning tabs to reduce breakage

Grid Pattern

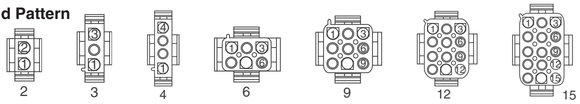

Fig. 1 - Plug

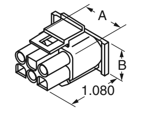

Fig. 3 - Vertical Header

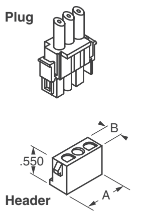

Fig. 2 - Cap

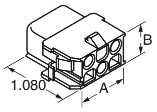

Cap Panel Cutout

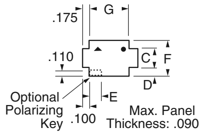

▲ - Circuit #1 location when using polarizing key option with 2, 3 and 4 circuit housing.

● - Circuit #1 location when using polarizing key option with 6, 9, 12 and 15 circuit housing.

2, 3 and 4 Position Vertical Header P.C. Board Layout Dimension

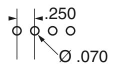

6, 9, 12 and 15 Position Header Assemblies

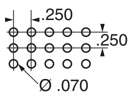

Pos.	Descrip-tion	Amperes/ Circuit (Max.)*	Voltage Rating (Max.)*	Panel Cutout Dimension (Inch) A	B	C‡	D	E	F	G	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
Fig. 1 – Plug																
2	Plug	13.5	600	.300	.550	—	—	—	—	—	WM1242-ND	.24	2.08	13.84	55.37	50-84-1020
3	Plug	13.5	600	.300	.800	—	—	—	—	—	WM1244-ND	.28	2.49	16.57	66.29	50-84-1030
4	Plug	13.5	600	.300	1.050	—	—	—	—	—	WM1246-ND	.32	2.84	18.91	75.62	50-84-1040
6	Plug	11.0	600	.800	.550	—	—	—	—	—	WM1248-ND	.37	3.23	21.56	86.22	50-84-1060
9	Plug	11.0	600	.800	.800	—	—	—	—	—	WM1250-ND	.44	3.88	25.87	103.47	50-84-1090
12	Plug	11.0	600	.800	1.050	—	—	—	—	—	WM1252-ND	.66	5.85	39.00	155.99	50-84-1120
15	Plug	11.0	600	.800	1.300	—	—	—	—	—	WM1254-ND	.74	6.52	43.47	173.87	50-84-1150
Fig. 2 – Cap																
2	Cap	13.5	600	.300	.550	.340	.095	.250	.530	.565	WM1243-ND	.29	2.59	17.24	68.97	50-84-2020
3	Cap	13.5	600	.300	.800	.340	.095	.250	.530	.815	WM1245-ND	.34	2.98	19.86	79.43	50-84-2030
4	Cap	13.5	600	.300	1.050	.340	.095	.250	.530	1.065	WM1247-ND	.35	3.09	20.57	82.27	50-84-2040
6	Cap	11.0	600	.800	.5 50	.340	.275	.250	1.030	.565	WM1249-ND	.40	3.55	23.65	94.61	50-84-2060
9	Cap	11.0	600	.800	.800	.480	.275	.250	1.030	.815	WM1251-ND	.51	4.50	30.02	120.08	50-84-2090
12	Cap	11.0	600	.800	1.050	.480	.275	.350	1.030	1.065	WM1253-ND	.80	7.08	47.23	188.90	50-84-2120
15	Cap	11.0	600	.800	1.300	.480	.275	.350	1.030	1.315	WM1255-ND	.90	7.92	52.80	211.21	50-84-2150
Fig. 3 – Vertical Header																
2	Male	—	—	.300	.550	—	—	—	—	—	WM1256-ND	.46	4.06	27.06	108.22	10-84-4020
2	Female	—	—	.300	.550	—	—	—	—	—	WM1263-ND	.44	3.88	25.87	103.46	10-84-4022
3	Male	—	—	.300	.800	—	—	—	—	—	WM1257-ND	.60	5.26	35.08	140.33	10-84-4030
4	Male	—	—	.300	1.050	—	—	—	—	—	WM1258-ND	.76	6.69	44.58	178.30	10-84-4040
4	Female	—	—	.300	1.050	—	—	—	—	—	WM1265-ND	.83	7.32	48.77	195.07	10-84-4042
6	Male	—	—	.800	.550	—	—	—	—	—	WM1259-ND	1.15	10.15	67.67	270.69	10-84-4060
6	Female	—	—	.800	.550	—	—	—	—	—	WM1266-ND	1.25	11.04	73.57	294.27	10-84-4062
9	Male	—	—	.800	.800	—	—	—	—	—	WM1260-ND	1.55	13.68	91.17	364.67	10-84-4090
9	Female	—	—	.800	.800	—	—	—	—	—	WM1267-ND	1.70	15.02	100.15	400.58	10-84-4092
12	Male	—	—	.800	1.050	—	—	—	—	—	WM1261-ND	2.19	19.31	128.74	514.97	10-84-4120
12	Female	—	—	.800	1.050	—	—	—	—	—	WM1268-ND	2.42	21.33	142.23	568.92	10-84-4122
15	Male	—	—	.800	1.300	—	—	—	—	—	WM1262-ND	2.78	24.51	163.43	653.72	10-84-4150
15	Female	—	—	.800	1.300	—	—	—	—	—	WM1269-ND	2.71	23.92	159.46	637.83	10-84-4152

* Ratings are per circuit, based on fully loaded housings ‡ Cap housing should be installed into panel in the same direction as the panel cutout is punched

.084" Terminals

Split Pin (Male)

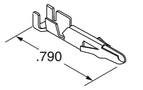

Socket (Female)

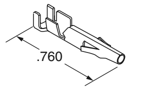

Description	Wire Size AWG Tin Plated	Insulation Dia. (Inch) Min.	Max.	Digi-Key Part No.	Pricing 10	100	500	1,000	Molex Part No.
Male Crimp	14 ~ 20	.060	.130	WM1270-ND	.66	5.30	22.09	35.34	02-08-2004
Female Crimp	14 ~ 20	.060	.130	WM1271-ND	.66	5.25	21.89	35.02	02-08-1002
Female Crimp	14 ~ 20	.060	.130	WM1271CT-ND† ***NEW!***	—	7.12	28.94	44.53	02-08-1001
Female Crimp	14 ~ 20	.060	.130	WM1271TR-ND‡ ***NEW!***	144.00/4,000				02-08-1001
Extraction Tool	14 ~ 20	—	—	WM9921-ND	67.67/1				11-01-0168
Manual Wire Stripper (Molex)...................				WM9969-ND	84.59/1				63817-0000
Crimp Tool for .084 Contacts....................				WM9009-ND	243.27/1				63811-6800

† Cut Tape ‡ Tape and Reel

Power Connectors

.093" Diameter Connectors

Features:
- UL File Number E-29179; CSA File Number LR-19980
- Up to 12 amperes per circuit, (ratings are per circuit and based on fully loaded housings)
- 250 Voltage rating for 03-09 series; 600 Voltage rating for 19-09 series
- Friction lock for 03-09 series; Positive lock for 19-09 series

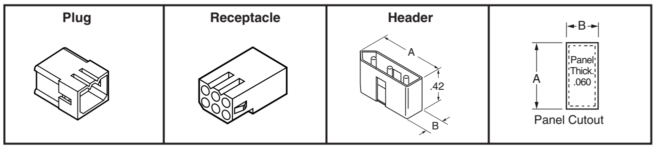

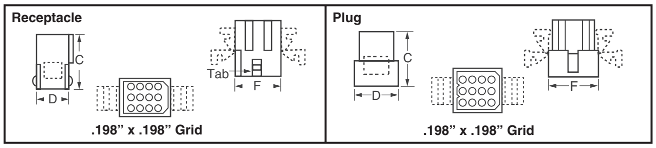

Grid Patterns
(Contacts sold separately)

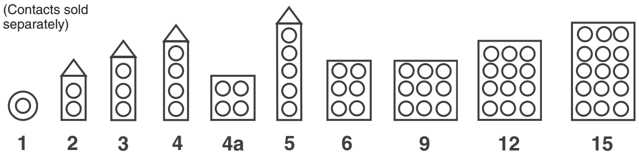

Grid Space	Grid No.	Type	Maximum Amps	V.	Dimensions (Inch) A	B	C	D	F	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Connector Housings — with Detent Only, Free Hanging														
.198"	1	Plug	12	5000	—	—	2.250	.437	—	WM1301-ND	.46	4.10	27.32	03-09-2014
	1	Plug	12	250	—	—	1.000	.358	—	WM1303-ND	.15	1.31	8.74	03-09-2011
		Recept.	12	250	—	—	1.000	.234	—	WM1302-ND	.15	1.31	8.74	03-09-1011
	3	Plug	12	250	.933	.375	.970	.340	.770	WM1325-ND	.38	3.33	22.23	03-09-2032
		Recept.	12	250	.840	.312	1.015	.236	.670	WM1332-ND	.40	3.53	23.54	03-09-1032
	4	Plug	12	250	1.131	.375	1.000	.338	.971	WM1326-ND	.43	3.80	25.31	03-09-2042
		Recept.	12	250	1.038	.312	1.000	.236	.868	WM1333-ND	.44	3.86	25.75	03-09-1042
	4a	Plug	12	250	.555	.695	1.024	.538	.538	WM1327-ND	.68	6.02	40.11	03-09-2049
		Recept.	12	250	.500	.600	1.000	.434	.434	WM1334-ND	.66	5.82	38.80	03-09-1049
	5	Plug	12	250	—	—	.969	.350	1.170	WM1315-NDΔ	.69	6.10	40.69	03-09-2057
		Recept.	12	250	—	—	1.000	.240	1.070	WM1314-NDΔ	.65	5.77	38.49	03-09-1057
		Recept.	11	250	1.230	.310	1.105	.240	1.070	WM1592-ND	.57	5.00	33.36	03-09-1054
	6	Plug	9	250	.750	.695	1.000	.733	.536	WM1328-ND	.51	4.52	30.13	03-09-2062
		Recept.	9	250	.718	.600	1.015	.632	.434	WM1335-ND	.51	4.52	30.13	03-09-1064
	9◊	Plug	9	250	.937	.660	.970	.730	.770	WM1329-ND	.65	5.73	38.20	03-09-2092
		Recept.	9	250	.828	.725	1.015	.625	.666	WM1336-ND	.67	5.93	39.55	03-09-1094
	12	Plug	7.5	250	1.155	.760	1.000	.737	.770	WM1330-ND	.73	6.40	42.69	03-09-2121
		Recept.	7.5	250	1.050	.655	1.015	.633	.871	WM1337-ND	.74	6.54	43.58	03-09-1126
		Recept.	9.5	250	1.050	.725	1.020	.690	.870	WM1590-ND	.64	5.67	37.77	03-09-1121
.248"	2	Plug	12	250	.800	.375	1.000	.352	.639	WM1324-ND	.32	2.81	18.75	03-09-2022
		Recept.	12	250	.725	.312	1.030	.250	.536	WM1331-ND	.30	2.62	17.44	03-09-1022
Connector Housings — with Positive Lock, Free Hanging														
.198"	4§	Plug	9	600	—	—	1.031	.359	1.156	WM1405-ND	.71	6.26	41.73	03-09-2048
		Recept.	9	600	—	—	1.063	.265	1.032	WM1404-ND	.69	6.05	40.34	03-09-1047
.248"	2	Plug	12	600	—	—	1.031	.359	.656	WM1401-ND	.56	4.97	33.11	03-09-2028
		Recept.	12	600	—	—	1.063	.265	.531	WM1400-ND	.53	4.69	31.29	03-09-1028
Connector Housings — with Mounting Ears and Detent, Panel Mount														
.198"	3	Plug	12	250	.933	.375	.970	.340	.770	WM1307-ND	.46	4.08	27.21	03-09-2031
		Recept.	12	250	.840	.312	1.015	.236	.670	WM1338-ND	.42	3.73	24.84	03-09-1081
	4	Plug	12	250	1.131	.375	.969	.338	.971	WM1309-ND	.46	4.06	27.06	03-09-2041
		Recept.	12	250	1.038	.312	1.000	.236	.868	WM1308-ND	.44	3.86	25.75	03-09-1041
	4a	Plug	12	250	.555	.695	.969	.538	.538	WM1311-ND	.68	6.02	40.11	03-09-2040
		Recept.	12	250	.500	.600	1.000	.434	.434	WM1310-ND	.66	5.82	38.80	03-09-1040
	6	Plug	9	250	.750	.695	.969	.733	.536	WM1317-ND	.54	4.79	31.92	03-09-2061
		Recept.	9	250	.718	.600	1.015	.632	.434	WM1316-ND	.54	4.79	31.92	03-09-1061
	9◊	Plug	9	250	.937	.660	.970	.730	.770	WM1319-ND	.67	5.93	39.55	03-09-2091
		Recept.	9	250	.828	.725	1.015	.625	.666	WM1318-ND	.67	5.93	39.55	03-09-1091
	12	Plug	7.5	250	1.155	.760	.969	.737	.975	WM1321-ND	.73	6.40	42.69	03-09-2122
		Recept.	7.5	250	1.050	.665	1.015	.633	.871	WM1320-ND	.74	6.54	43.58	03-09-1125
	15	Plug	9.5	250	1.343	0.76	.980	.629	1.67	WM1339-ND	1.59	14.02	93.49	03-09-2159
		Recept.	7.5	250	1.240	.655	1.015	.632	1.066	WM1322-ND	1.07	9.44	62.95	03-09-1154
		Recept.	9.5	250	1.240	.655	1.015	.692	1.067	WM1591-ND	.93	8.18	54.56	03-09-1151
.248"	2§	Plug	12	250	.800	.375	.968	.352	.639	WM1305-ND	.32	2.81	18.75	03-09-2021
		Recept.	12	250	.725	.312	1.000	.250	.536	WM1304-ND	.30	2.62	17.44	03-09-1027
.250"	3	Plug	11	600	1.022	.365	1.100	.350	.862	WM1501-ND	.78	6.88	45.87	19-09-2031
	4	Recept.	9	600	1.168	.311	1.140	.250	.760	WM1502-ND	.83	7.35	49.01	19-09-1043
	6	Plug	9	600	1.048	.658	1.100	.640	.886	WM1505-ND	.91	8.02	53.50	19-09-2061
		Recept.	9	600	.946	.608	1.140	.540	.790	WM1504-ND	.91	8.02	53.50	19-09-1061
	9	Recept.	8	600	.948	.850	1.140	.790	.790	WM1506-ND	1.31	11.59	77.26	19-09-1091
	12	Plug	6	600	1.300	.910	1.100	.890	1.140	WM1509-ND	1.34	11.80	78.66	19-09-2122
	15	Plug	6	600	1.552	.910	1.100	.890	1.388	WM1511-ND	2.49	21.98	146.55	19-09-2153
		Recept.	6	600	1.422	.850	1.140	.790	1.282	WM1510-ND	2.49	21.98	146.55	19-09-1151
Housing Positive Lock Panel Mount UL94V-2														
.264"	1	Plug	12	600	.485	.343	.320	.320	.320	WM1601-ND	.35	3.09	20.59	19-09-2018
		Recept.	12	600	—	—	—	.300	.400	WM1600-ND•	.35	3.09	20.59	19-09-1019
	2	Plug	12	600	.800	.365	.635	.320	.580	WM1603-ND	.56	4.98	33.19	19-09-2028
		Recept.	12	600	—	—	—	.300	.560	WM1602-ND•	.56	4.98	33.19	19-09-1029
	3	Plug	11	600	1.022	.365	.862	.320	.848	WM1605-ND	.50	4.45	29.69	19-09-2038
		Recept.	11	600	—	—	—	.300	.830	WM1604-ND•	.53	4.65	31.03	19-09-1039
	4	Plug	9	600	1.270	.365	1.109	.321	1.110	WM1607-ND	.62	5.47	36.49	19-09-2048
		Recept.	9	600	—	—	—	.300	1.090	WM1606-ND•	.63	5.53	36.86	19-09-1049
.264"	6	Plug	9	600	1.048	.658	.888	.604	.850	WM1609-ND	.73	6.45	43.02	19-09-2068
		Recept.	9	600	—	—	—	.560	.830	WM1608-ND•	.68	6.00	40.00	19-09-1069
	9	Plug	9	600	1.048	.909	.883	.868	.850	WM1611-ND	.83	7.36	49.10	19-09-2098
		Recept.	9	600	—	—	—	.560	.830	WM1610-ND•	.80	7.08	47.22	19-09-1099
	12	Plug	9	600	1.100	.910	1.140	.668	1.112	WM1613-ND	1.15	10.17	67.81	19-09-2128
		Recept.	9	600	—	—	—	.830	.900	WM1612-ND•	.95	8.42	56.11	19-09-1129
	15	Plug	9	600	1.552	.910	1.392	.868	1.380	WM1615-ND	1.38	12.20	81.35	19-09-2158
		Recept.	9	600	—	—	—	.868	1.380	WM1614-ND•	1.38	12.20	81.35	19-09-1159
Housing Positive Lock Panel Mount UL94V-0														
.264"	1	Plug	12	600	.485	.394	1.187	.250	.321	WM1678-ND	.43	3.83	25.51	19-09-2017
		Recept.	12	600	—	—	1.177	.300	.300	WM1670-ND•	.43	3.83	25.51	19-09-1016
	2	Plug	12	600	.800	.365	1.19	.32	.59	WM1679-ND	.81	7.17	47.81	19-09-2027
		Recept.	12	600	—	—	1.18	.30	.56	WM1671-ND•	.81	7.17	47.81	19-09-1026
	3	Plug	11	600	1.02	.394	1.187	.322	.850	WM1680-ND	.91	8.02	53.49	19-09-2037
		Recept.	11	600	—	—	1.177	.300	.827	WM1672-ND•	.91	8.02	53.49	19-09-1036
	4	Plug	9	600	—	—	—	—	—	WM1681-ND	.96	8.51	56.71	19-09-2047
		Recept.	9	600	—	—	1.177	.30	1.091	WM1673-ND•	.96	8.51	56.71	19-09-1046
	6	Plug	9	600	1.047	.681	1.187	.586	.850	WM1682-ND	1.12	9.85	65.65	19-09-2067
		Recept.	9	600	—	—	1.177	.563	.827	WM1674-ND•	1.12	9.85	65.65	19-09-1066
	9	Plug	9	600	1.048	.909	1.19	.850	.850	WM1683-ND	1.18	10.39	69.29	19-09-2097
		Recept.	9	600	—	—	1.18	.83	.83	WM1675-ND•	1.18	10.39	69.29	19-09-1096
	12	Plug	9	600	1.3	.91	1.19	.868	1.112	WM1684-ND	1.33	11.73	78.19	19-09-2127
		Recept.	9	600	—	—	1.18	.83	1.09	WM1676-ND•	1.33	11.73	78.19	19-09-1126
	15	Plug	9	600	1.552	.91	1.19	.868	1.38	WM1685-ND	1.69	14.95	99.67	19-09-2157
		Recept.	9	600	—	—	1.18	.83	1.35	WM1677-ND•	1.69	14.95	99.67	19-09-1156
Housing Positive Lock UL94V-2														
.264"	1	Plug	12	600	.485	.394	1.187	.250	.321	WM1686-ND	.30	2.68	17.84	19-09-2019
	2	Plug	12	600	.800	.365	1.19	.32	.59	WM1687-ND	.49	4.31	28.76	19-09-2029
	3	Plug	11	600	1.02	.394	1.187	.322	.850	WM1688-ND	.44	3.86	25.72	19-09-2039
	4	Plug	9	600	—	—	—	—	—	WM1689-ND	.56	4.98	33.21	19-09-2049
	6	Plug	9	600	1.047	.681	1.187	.586	.850	WM1690-ND	.63	5.59	37.28	19-09-2069
	9	Plug	9	600	1.048	.909	1.19	.850	.850	WM1691-ND	.72	6.38	42.54	19-09-2099
	12	Plug	9	600	1.3	.91	1.19	.868	1.112	WM1692-ND	.83	7.29	48.62	19-09-2129
	15	Plug	9	600	1.552	.91	1.19	.868	1.38	WM1693-ND	1.20	10.57	70.49	19-09-2159
Shrouded Male Pin Header														
.198"	3	Header	5	250	.770	.330	—	—	—	WM1625-ND	2.30	20.28	135.19	10-18-1032
	4	Header	5	250	.970	.330	—	—	—	WM1626-ND	2.63	23.22	154.81	10-18-1041
	6	Header	5	250	.740	.540	—	—	—	WM1627-ND	2.80	24.73	164.86	10-18-1061
	9	Header	5	250	.770	.730	—	—	—	WM1628-ND	3.63	32.05	213.66	10-18-1090
	12	Header	5	250	.980	.740	—	—	—	WM1629-ND	5.34	47.10	313.97	10-18-1120
.264"	2	Header	12	600	.587	.374	—	—	—	WM1041-ND	1.39	12.27	81.80	15-31-1026
	3	Header	11	600	.850	.374	—	—	—	WM1038-ND	1.72	15.20	101.30	15-31-1036
	4	Header	9	600	1.114	.374	—	—	—	WM1042-ND	1.92	16.94	112.96	15-31-1046
	6	Header	9	600	.850	.642	—	—	—	WM1039-ND	2.98	26.29	175.29	15-31-1066
	9	Header	9	600	.850	.901	—	—	—	WM1040-ND	6.37	56.17	374.50	15-31-1096

§ Center spacing .248" (6.30mm) will accommodate: 14, 16 and 18 AWG with 1/32" (.79mm) insulation – 16-18 AWG (double crimp), each with 1/32" (.79mm) insulation–WM1400-WM1405 housing have positive locking rather than detent lock.

Δ Has positive lock rather than detent lock.

◊ Mounting ears are molded flush with back edge of wire end, not centered on side.

- **These Receptacles do not have mounting ears**

.093" Terminals

Features: Use with .093" housing **Temperature Range:** 40°C ~ 105°C; .010" stock 70/30 brass **High Voltage Test:** Withstands 1500 volts RMS for 60 seconds minimum applied between adjacent terminals **Current Rating:** Amperage rating up to 12 amps on some sizes **Storage Temperature Range:** -40°C ~ 125°C **Plating:** 200-300µ Inch Hot-Tin Dip tin plating

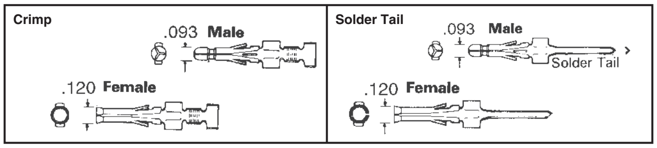

Description	Wire Size	Insulation Dia. (Inch)	Digi-Key Part No.	Pricing 10	100	500	Mfr. Part No.
Male, Crimp Type	14~20	.065 ~ .160	WM1100-ND◆	1.32	10.55	43.98	02-09-2103
			WM1100CT-ND†◆	—	5.09	21.20	02-09-2101
			WM1100TR-ND‡◆	238.00/7,000			02-09-2101
			WM2133-ND◆	10.33	82.64	344.33	02-09-6106
			WM2134-ND◆	16.41	131.27	546.96	02-09-6110
Female, Crimp Type	14~20	.065 ~ .160	WM1101-ND◆	1.32	10.55	43.98	02-09-1104
			WM1101CT-ND†◆	—	5.00	20.84	02-09-1102
			WM1101TR-ND‡◆	231.00/7,000			02-09-1102
Male, Crimp Type	18~22	.060 ~ .120	WM1102-ND◆	1.40	11.20	46.66	02-09-2118
			WM1102CT-ND†◆ ***NEW!***	—	6.84	27.79	02-09-2116
			WM1102TR-ND‡◆ ***NEW!***	238.00/7,000			02-09-2116
Female, Crimp Type	18~22	.060 ~ .120	WM1103-ND◆	1.34	10.69	44.55	02-09-1119
			WM1103CT-ND†◆ ***NEW!***	—	6.39	25.95	02-09-1117
			WM1103TR-ND‡◆ ***NEW!***	224.00/7,000			02-09-1117
Male, Solder-Tail	—	—	WM1104-ND◆	1.71	13.69	57.03	02-09-2133
Female, Solder-Tail	—	—	WM1105-ND◆	1.72	13.73	57.23	02-09-1134
Male, Crimp Type	18~22	.060 ~ .120	WM1106-ND*◆	10.80	86.37	359.86	02-09-6123
Female, Crimp Type	18~22	.060 ~ .120	WM1107-ND*◆	10.80	86.37	359.86	02-09-5142
Female, Crimp Type	18~22	.060 ~ .120	WM1107TR-ND‡◆	3276.00/7,000			02-09-5143
Male, Crimp Type	24~30	.030 ~ .060	WM1108-ND*◆	11.23	89.82	374.26	02-09-6145
Female, Crimp Type	24~30	.030 ~ .060	WM1109-ND*◆	11.23	89.82	374.26	02-09-5147
Male, Solder-Tail	—	—	WM1110-ND*	13.34	106.69	444.55	02-09-6132
Female, Solder-Tail	—	—	WM1111-ND*	14.29	114.34	476.43	02-09-5132
Hand Crimp Tool (Waldom)	14~26	—	WM9903-ND	15.31/1			W-HT-1919
Extraction Tool (Waldom)	18~30	—	WM1593-ND	20.95/1			W-HT-2054
Universal Crimp Tool (Molex)	—	—	WM9999-ND	50.75/1			63811-1000
Extraction Tool (Molex)	—	—	WM9930-ND	16.92/1			11-03-0006
Manual Wire Stripper (Molex)	—	—	WM9969-ND	84.59/1			63817-0000

◆ ***RoHS Compliant*** * 15µ" Select Gold Finish † Cut Tape ‡ Tape and Reel

Cable Connector Designer Kit

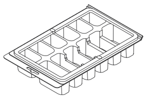

Covers from single to 15-circuit designs (250V and up to 12A/circuit). 90 complete connectors with .093" (2.36mm) diameter pin size. Crimping tool, pin terminal ejector and case included. ***RoHS Compliant***
WM9982-ND **$52.80**

Weidmüller RockStar® Heavy Duty Connectors

Fig. 1 3 Position shown

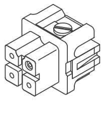

Fig. 2 3 Position shown

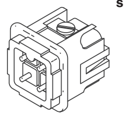

Fig. 3 10 Position shown

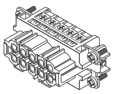

Fig. 4 10 Position shown

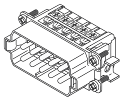

Fig. 5 6 Position shown

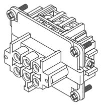

Fig. 6 6 Position shown

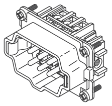

Fig. 7 6 Position shown

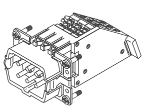

Fig. 8

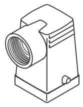

Fig. 9

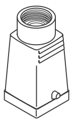

Fig. 10

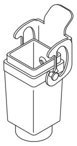

Fig. 11

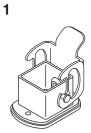

Fig. 12

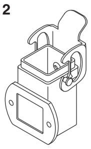

Fig. 13

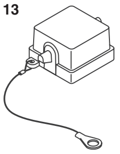

Fig. 14

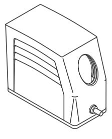

Fig. 15

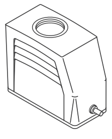

Fig. 16

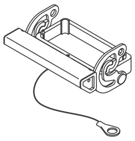

Fig. 17

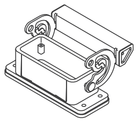

Fig. 18

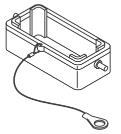

Fig. 19

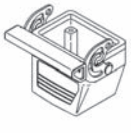

Fig. 20 without cover shown

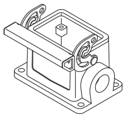

Fig. 21

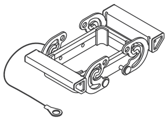

Fig. 22

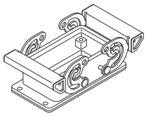

Fig. 23

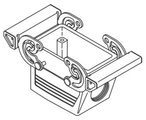

Fig. 24

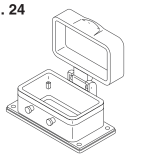

Fig. 25

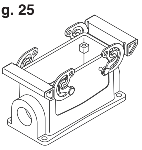

Fig. 26 without cover shown

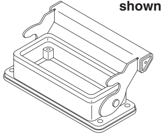

Fig. 27

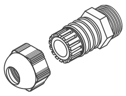

FEATURES: Housings: • Sealing at least IP65 to EN 60529:1991 + A1:2000 • NEMA 4X • Scratch resistant, corrosion proof and long lasting • Manual operation *(No tools required)* • 2 to 4 locking points • Easily accessible cable entry • All inserts have an extra Protective Earth (PE) contact **Inserts:** Standards: DIN EN 61984, DIN EN 60664-1 • Approvals: UL/CSA

MATING INFORMATION: • Male or female inserts will fit into any correct size housing • "Lower Side Hood Housing" mates with "Lower Side Base Housing"; "Upper Side Hood Housings" mates with "Upper Side Base Housing" • Must match up correct locking types for housing • To choose the correct size housing match up the correct size insert • Some housings require multiple inserts

SPECIFICATIONS: Housings: • Gray, Cast Aluminum Alloy or Thermoplastic • Operation Elements: Stainless Steel **Inserts:** • Material: Glass-fiber reinforced PC • Temperature Range: *HA, HD and HE Series:* -40°C ~ 125°C; *DSTV-HE Series:* -40°C ~ 110°C • Flammability: *HA, HD and HE Series:* UL94V-0; *DSTV-HE Series:* UL94V-2 **Contacts:** • Material: Copper alloy • Plating: Passivated Silver • Voltage: *HA, HD and HE Series:* UL600V; *DSTV-HE Series:* 500V • Current: *HA Series:* 22A; *HE Series:* 16-24A; *HD Series:* 10A; *DSTV-HE Series:* 16A Mechanical Plugging Cycles: *HA, HD and HE Series:* ≥500; *DSTV-HE Series:* ≥200 **Screw Connection:** • Material: Copper alloy • Plating: Passivated Silver **Wire Size:** *HA and HE Series:* 20-14AWG; *HD Series:* 26-14AWG; *DSTV-HE Series:* 20-12AWG

HA Series Inserts

		Digi-Key	Price Each			Weidmuller
Fig.	**Description**	**Part No.**	**1**	**10**	**100**	**Part No.**
	3 and 4 Position Screw Termination — Size 1					
1	Female Insert, 3 Positions	281-2210-ND	9.66	8.70	7.73	1498200000
2	Male Insert, 3 Positions	281-2211-ND	10.15	9.14	8.12	1498100000
1	Female Insert, 4 Positions	281-2212-ND	11.07	9.97	8.86	1498400000
2	Male Insert, 4 Positions	281-2213-ND	11.62	10.46	9.30	1498300000
	10 Position Screw Termination (End Locking) — Size 2					
3	Female Insert	281-2223-ND	13.87	12.49	11.10	1650620000
4	Male Insert	281-2224-ND	14.57	13.12	11.66	1650610000
	16 Position Screw Termination (End Locking) — Size 5					
3	Female Insert, 1-16†	281-2232-ND	20.38	18.35	16.31	1650780000
4	Male Insert, 1-16†	281-2233-ND	17.98	16.18	14.39	1650770000
3	Female Insert, 17-32†	281-2234-ND	20.38	18.35	16.31	1650900000
4	Male Insert, 17-32†	281-2235-ND	17.13	15.42	13.71	1650880000

† Pin numbers

HE Series Inserts

		Digi-Key	Price Each			Weidmuller
Fig.	**Description**	**Part No.**	**1**	**10**	**100**	**Part No.**
	6 Position Screw Termination (End Locking) — Size 3					
5	Female Insert, 24A	281-2243-ND	10.60	9.55	8.49	1200200000
6	Male Insert, 24A	281-2244-ND	10.60	9.55	8.49	1200000000
	10 Position Screw Termination (Side Locking) — Size 4					
5	Female Insert, 16A	281-2252-ND	12.23	11.01	9.79	1204100000
6	Male Insert, 16A	281-2253-ND	12.23	11.01	9.79	1203900000
	16 Position Screw Termination (Side Locking) — Size 6					
5	Female Insert, 16A	281-2260-ND	15.50	13.95	12.40	1207700000
6	Male Insert, 16A	281-2261-ND	16.31	14.68	13.05	1207500000
	24 Position Screw Termination (Side Locking) — Size 8					
5	Female Insert, 16A, 1-24†	281-2269-ND	20.38	18.35	16.31	1211300000
6	Male Insert, 16A, 1-24†	281-2270-ND	20.38	18.35	16.31	1211100000
5	Female Insert, 16A, 25-48†	281-2272-ND	17.13	15.42	13.71	1221200000
6	Male Insert, 16A, 25-48†	281-2271-ND	17.13	15.42	13.71	1220800000

† Pin numbers

HD Series Inserts

		Digi-Key	Price Each			Weidmuller
Fig.	**Description**	**Part No.**	**1**	**10**	**100**	**Part No.**
	7 and 8 Position Crimped Termination (End Locking) — Size 1					
1	Female Insert, 7 Positions	281-2280-ND	3.68	3.32	2.95	1650580000
2	Male Insert, 7 Positions	281-2281-ND	3.68	3.32	2.95	1650570000
1	Female Insert, 8 Positions	281-2282-ND	3.68	3.32	2.95	1650600000
2	Male Insert, 8 Positions	281-2283-ND	3.68	3.32	2.95	1650590000
	16 Position Crimped Termination (End Locking) — Size 3					
5	Female Insert	281-2287-ND	11.41	10.27	9.13	1650720000
6	Male Insert	281-2286-ND	12.23	11.01	9.79	1650710000
	24 Position Crimped Termination (Side Locking) — Size 4					
5	Female Insert	281-2289-ND	12.23	11.01	9.79	1650890000
6	Male Insert	281-2288-ND	12.23	11.01	9.79	1650870000
	25 Position Crimped Termination (End Locking) — Size 5					
3	Female Insert	281-2291-ND	12.23	11.01	9.79	1650820000
4	Male Insert	281-2292-ND	12.23	11.01	9.79	1650810000
	Crimp Contacts and Tooling for HD Series					
—	Pin 16AWG Silver plated	281-2284-ND	.72	.65	.58	1651550000
—	Socket 16AWG Silver plated	281-2285-ND	.72	.65	.58	1651600000
—	Crimp Tool 16-24AWG	281-2179-ND	569.65	—	—	9018490000
—	Contact Removal Tool	281-2388-ND	55.36	—	—	1866730000

DSTV-HE Series Inserts

		Digi-Key	Price Each			Weidmuller
Fig.	**Description**	**Part No.**	**1**	**10**	**100**	**Part No.**
	6 Position Screw Termination — Size 3					
7	Female Insert	281-2197-ND	32.60	29.34	26.08	1848550000
	Male Insert	281-2196-ND	18.98	17.09	15.19	1848660000
	10 Position Screw Termination — Size 4					
7	Female Insert	281-2199-ND	35.85	32.27	28.68	1848570000
	Male Insert	281-2198-ND	28.47	25.63	22.78	1848680000
	16 Position Screw Termination — Size 6					
7	Female Insert	281-2201-ND	53.77	48.40	43.02	1848580000
	Male Insert	281-2200-ND	48.89	44.00	39.11	1848700000
	24 Position Screw Termination — Size 8					
7	Female Insert	281-2379-ND	73.33	66.00	58.67	1848590000
	Male Insert	281-2202-ND	66.80	60.13	53.45	1848730000

Housings and Accessories

		Digi-Key	Price Each			Weidmuller
Fig.	**Description**	**Part No.**	**1**	**10**	**100**	**Part No.**
	Hoods — End Locking - Lower Side — Size 1					
8	Plastic hood, side cable entry, PG11 thread	281-2214-ND	6.11	5.51	4.90	1652400000
	Metal hood, side cable entry, PG11 thread	281-2215-ND	6.18	5.56	4.95	1652480000
9	Plastic hood, side cable entry, PG11 thread	281-2216-ND	5.35	4.82	4.29	1652380000
	Metal hood, side cable entry, PG11 thread	281-2217-ND	6.18	5.56	4.95	1652470000
	Bases — End Locking - Lower Side — Size 1					
10	Metal coupling hood, PG11 thread	281-2218-ND	6.18	5.56	4.95	1652500000
11	Plastic bulkhead housing	281-2178-ND	6.53	5.88	5.22	1652410000
	Metal bulkhead housing	281-2219-ND	6.93	6.24	5.55	1497600000

(Continued)

Weidmüller RockStar® Heavy Duty Connectors

Housings and Accessories *(Cont.)*

		Digi-Key	Price Each			Weidmuller
Fig.	**Description**	**Part No.**	**1**	**10**	**100**	**Part No.**
12	Metal base housing, PG11 thread	281-2220-ND	12.40	11.16	9.92	1652490000
13	Metal cover for female insert	281-2221-ND	8.29	7.47	6.64	1665750000
	Metal cover for male insert	281-2222-ND	6.71	6.04	5.37	1665740000
	Hoods — End Locking - Lower Side — Size 2					
14	Metal hood, side cable entry, PG16 thread, 54mm	281-2225-ND	8.76	7.89	7.01	1663810000
	Metal hood, side cable entry, PG16 thread, 68mm	281-2295-ND	18.75	16.88	15.01	1663850000
	Metal hood, side cable entry, PG21 thread	281-2296-ND	18.75	16.88	15.01	1663870000
15	Metal hood, top cable entry, PG16 thread	281-2226-ND	8.76	7.89	7.01	1663930000
	Metal hood, top cable entry, PG21 thread	281-2297-ND	18.21	16.39	14.57	1663990000
16	Metal cover	281-2230-ND	16.56	14.91	13.26	1665890000
	Bases — End Locking - Lower Side — Size 2					
19	Metal coupling hood, PG16 thread	281-2227-ND	13.87	12.49	11.10	1664560000
	Metal coupling hood, PG21 thread	281-2298-ND	24.44	22.00	19.56	1664630000
20	Metal housing hood, PG16 thread	281-2229-ND	14.91	13.42	11.93	1664170000
17	Metal bulkhead housing	281-2228-ND	10.60	9.55	8.49	1664040000
18	Metal cover	281-2231-ND	13.38	12.05	10.71	1665880000
	Hoods — End Locking - Lower Side — Size 3					
14	Metal hood, side cable entry, PG16 thread	281-2245-ND	10.39	9.35	8.32	1652520000
	Metal hood, side cable entry, PG21 thread	281-2299-ND	15.50	13.95	12.40	1652560000
	Metal hood, side cable entry, PG29 thread	281-2300-ND	15.50	13.95	12.40	1652580000
15	Metal hood, top cable entry, PG16 thread	281-2246-ND	10.39	9.35	8.32	1652640000
	Metal hood, top cable entry, PG21 thread	281-2301-ND	15.50	13.95	12.40	1652680000
	Metal hood, top cable entry, PG29 thread	281-2302-ND	15.50	13.95	12.40	1652700000
16	Metal cover	281-2250-ND	27.71	24.95	22.18	1665210000
	Bases — End Locking - Lower Side — Size 3					
19	Metal coupling hood, PG16 thread	281-2247-ND	13.66	12.30	10.93	1653200000
	Metal coupling hood, PG21 w/o thread	281-2305-ND	20.38	18.35	16.31	1653230000
20	Metal base housing, PG16 thread	281-2249-ND	18.16	16.35	14.53	1652750000
	Metal base housing, PG16 thread w/cover	281-2303-ND	22.01	19.81	17.61	1652980000
	Metal base housing, PG21 thread	281-2304-ND	25.66	23.10	20.53	1652840000
26	Metal bulkhead housing	281-2248-ND	13.87	12.49	11.10	1202100000
18	Metal cover	281-2251-ND	13.87	12.49	11.10	1665200000
	Hoods — Side Locking - Lower Side — Size 4					
14	Metal hood, side cable entry, PG16 thread	281-2254-ND	15.29	13.76	12.23	1654070000
	Metal hood, side cable entry, PG21 thread, 52mm	281-2306-ND	14.56	13.10	11.65	1654090000
	Metal hood, side cable entry, PG21 thread, 72mm	281-2307-ND	22.82	20.54	18.26	1654150000
	Metal hood, side cable entry, PG29 thread	281-2308-ND	22.82	20.54	18.26	1654170000
15	Metal hood, top cable entry, PG16 thread	281-2255-ND	46.45	41.81	37.17	1654220000
	Metal hood, top cable entry, PG21 thread, 52mm	281-2309-ND	15.50	13.95	12.40	1654240000
21	Metal cover	281-2258-ND	28.47	25.63	22.78	1665240000
	Bases — Side Locking - Lower Side — Size 4					
23	Metal coupling hood, PG16 thread	281-2256-ND	20.38	18.35	16.31	1654580000
25	Metal base housing, PG16 thread	281-2290-ND	25.49	22.95	20.40	1654370000
	Metal base housing, 2xPG16 thread	281-2310-ND	25.49	22.95	20.40	1654380000
	Metal base housing, 2xPG21 thread	281-2311-ND	25.60	23.04	20.48	1654450000
	Metal base housing, PG29 thread	281-2184-ND	29.34	26.41	23.48	1654470000
22	Metal bulkhead housing	281-2257-ND	19.56	17.61	15.65	1205000000
18	Metal cover	281-2259-ND	13.69	12.32	10.96	1665230000
	Hoods — Side Locking - Upper Side — Size 4					
23	Metal hood, side cable entry, PG16 thread, 52mm	281-2322-ND	15.50	13.95	12.40	1654750000
	Metal hood, side cable entry, PG16 thread, 72mm	281-2323-ND	22.60	20.35	18.09	1654810000
	Metal hood, side cable entry, PG21 thread	281-2324-ND	22.82	20.54	18.26	1654790000
	Metal hood, top cable entry, PG16 thread	281-2325-ND	20.17	18.16	16.14	1654860000
	Metal hood, top cable entry, PG29 thread	281-2326-ND	30.79	27.72	24.64	1654920000
	Bases — Side Locking - Upper Side — Size 4					
24	Metal bulkhead housing with cover	281-2327-ND	27.71	24.95	22.18	1205600000
	Metal base housing, PG16 thread w/cover	281-2328-ND	29.34	26.41	23.48	1655000000
	Hoods — End Locking - Lower Side — Size 4					
14	Metal hood, side cable entry, PG16 thread	281-2312-ND	15.29	13.76	12.23	1655210000
	Metal hood, side cable entry, PG21 thread	281-2313-ND	22.82	20.54	18.26	1655250000
	Metal hood, side cable entry, PG29 thread	281-2314-ND	19.67	17.70	15.74	1655270000
15	Metal hood, top cable entry, PG16 thread	281-2315-ND	20.38	18.35	16.31	1655320000
	Metal hood, top cable entry, PG21 thread	281-2316-ND	26.77	24.10	21.42	1655360000
	Metal hood, top cable entry, PG29 thread	281-2317-ND	24.56	22.11	19.66	1655380000
	Bases — End Locking - Lower Side — Size 4					
19	Metal coupling hood, PG16 thread	281-2321-ND	20.38	18.35	16.31	1655890000
20	Metal base housing, 2xPG16 thread	281-2319-ND	26.07	23.47	20.86	1655470000
	Metal base housing, 2xPG16 thread w/cover	281-2320-ND	29.05	26.15	23.25	1655680000
12	Metal angled housing	281-2181-ND	38.03	34.23	30.42	1790040000
26	Metal bulkhead housing	281-2318-ND	19.56	17.61	15.65	1206100000
	Hoods — End Locking - Lower Side — Size 5					
14	Metal hood, side cable entry, PG16 thread, 58mm	281-2236-ND	15.29	13.76	12.23	1664690000
	Metal hood, side cable entry, PG16 thread, 72mm	281-2329-ND	20.78	18.70	16.63	1664730000
	Metal hood, side cable entry, PG21 thread	281-2293-ND	19.44	17.50	15.56	1664750000
15	Metal hood, top cable entry, PG16 thread	281-2237-ND	15.29	13.76	12.23	1664810000
	Metal hood, top cable entry, PG21 thread	281-2294-ND	20.78	18.70	16.63	1664870000
16	Metal cover	281-2241-ND	10.60	9.55	8.49	1665900000
	Bases — End Locking - Lower Side — Size 5					
19	Metal coupling hood, PG16 thread	281-2238-ND	20.38	18.35	16.31	1665450000
20	Metal base housing, 2xPG16 thread	281-2185-ND	22.82	20.54	18.26	1665070000
	Metal base housing, PG21 thread	281-2240-ND	18.75	16.88	15.01	1665090000
17	Metal bulkhead housing	281-2239-ND	15.50	13.95	12.40	1664920000
18	Metal cover	281-2242-ND	17.32	15.60	13.86	1665910000
	Hoods — Side Locking - Lower Side — Size 6					
14	Metal hood, side cable entry, PG21 thread, 61mm	281-2262-ND	13.87	12.49	11.10	1656480000
	Metal hood, side cable entry, PG21 thread, 76mm	281-2330-ND	20.24	18.22	16.20	1656520000
	Metal hood, side cable entry, PG29 thread	281-2331-ND	18.04	16.24	14.44	1656540000
15	Metal hood, top cable entry, PG21 thread, 61mm	281-2263-ND	13.87	12.49	11.10	1656590000
	Metal hood, top cable entry, PG21 thread, 76mm	281-2332-ND	20.38	18.35	16.31	1656630000
	Metal hood, top cable entry, PG29 thread	281-2333-ND	15.61	14.05	12.49	1656650000
21	Metal cover	281-2267-ND	27.71	24.95	22.18	1665270000
	Bases — Side Locking - Lower Side — Size 6					
23	Metal coupling hood, PG21 thread, 64mm	281-2264-ND	22.01	19.81	17.61	1657270000
	Metal coupling hood, PG21 thread, 79mm	281-2336-ND	29.34	26.41	23.48	1657310000
25	Metal base housing, PG21 thread	281-2266-ND	22.72	20.46	18.18	1656720000
	Metal base housing, 2xPG21 thread	281-2334-ND	24.44	22.00	19.56	1656730000
	Metal base housing, PG29 thread	281-2335-ND	24.93	22.44	19.95	1656830000
22	Metal bulkhead housing	281-2265-ND	15.50	13.95	12.40	1208600000
18	Metal cover	281-2268-ND	13.87	12.49	11.10	1665260000
	Hoods — End Locking - Lower Side — Size 6					
14	Metal hood, side cable entry, PG21 thread, 61mm	281-2337-ND	15.50	13.95	12.40	1657850000
	Metal hood, side cable entry, PG21 thread, 76mm	281-2338-ND	20.24	18.22	16.20	1657890000
	Metal hood, side cable entry, PG29 thread	281-2339-ND	18.04	16.24	14.44	1657910000
15	Metal hood, top cable entry, PG21 thread	281-2340-ND	20.24	18.22	16.20	1657960000
	Metal hood, top cable entry, PG29 thread	281-2341-ND	18.04	16.24	14.44	1658020000
	Bases — End Locking - Lower Side — Size 6					
19	Metal coupling hood, M25 thread	281-2186-ND	26.89	24.21	21.52	1788290000
20	Metal base housing, PG21 thread	281-2343-ND	22.72	20.46	18.18	1658110000
	Metal base housing, 2xPG21 thread	281-2344-ND	25.66	23.10	20.53	1658120000
26	Metal bulkhead housing	281-2342-ND	16.31	14.68	13.05	1209700000
	Hoods — Side Locking - Lower Side — Size 7 (Uses two Size 5 Inserts)					
14	Metal hood, side cable entry, PG21 thread	281-2345-ND	25.66	23.10	20.53	1665670000
	Metal hood, side cable entry, PG29 thread	281-2346-ND	27.71	24.95	22.18	1665690000
15	Metal hood, top cable entry, PG21 thread	281-2187-ND	25.63	23.07	20.51	1665790000
	Metal hood, top cable entry, PG29 thread	281-2347-ND	29.34	26.41	23.48	1665810000
	Bases — Side Locking - Lower Side — Size 7 (Uses two Size 5 Inserts)					
23	Metal coupling hood, M25 thread	281-2188-ND	35.85	32.27	28.68	1788080000
25	Metal base housing, 2xPG21 thread	281-2349-ND	28.85	25.97	23.09	1665980000
	Metal base housing, PG29 thread	281-2350-ND	32.60	29.34	26.08	1666010000
22	Metal bulkhead housing	281-2348-ND	31.56	28.41	25.25	1665860000
	Hoods — Side Locking - Lower Side — Size 8					
14	Metal hood, side cable entry, PG21 thread	281-2273-ND	15.50	13.95	12.40	1661230000
	Metal hood, side cable entry, PG29 thread	281-2351-ND	15.50	13.95	12.40	1661240000
15	Metal hood, top cable entry, PG21 thread, 61mm	281-2274-ND	17.81	16.03	14.25	1661370000
	Metal hood, top cable entry, PG21 thread, 76mm	281-2352-ND	23.50	21.15	18.80	1661440000
	Metal hood, top cable entry, PG29 thread	281-2353-ND	15.61	14.05	12.49	1661380000
21	Metal cover	281-2278-ND	27.71	24.95	22.18	1665640000
	Bases — Side Locking - Lower Side — Size 8					
23	Metal coupling hood, PG21 thread	281-2275-ND	22.01	19.81	17.61	1661720000
	Metal coupling hood, PG29 thread	281-2356-ND	22.01	19.81	17.61	1661730000
25	Metal base housing, PG21 thread	281-2277-ND	28.03	25.23	22.43	1661510000
	Metal base housing, 2xPG21 thread	281-2354-ND	29.34	26.41	23.48	1661520000
	Metal base housing, 2xPG29 thread	281-2355-ND	27.17	24.45	21.74	1661630000
22	Metal bulkhead housing	281-2276-ND	20.38	18.35	16.31	1212400000
18	Metal cover	281-2279-ND	16.31	14.68	13.05	1665630000
	Hoods — End Locking - Lower Side — Size 8					
14	Metal hood, side cable entry, PG21 thread	281-2357-ND	15.50	13.95	12.40	1662390000
	Metal hood, side cable entry, PG29 thread	281-2358-ND	15.61	14.05	12.49	1662410000
15	Metal hood, top cable entry, PG21 thread	281-2359-ND	15.50	13.95	12.40	1662540000
	Metal hood, top cable entry, PG29 thread	281-2360-ND	15.50	13.95	12.40	1662550000
	Bases — End Locking - Lower Side — Size 8					
20	Metal base housing, 2xPG21 thread	281-2362-ND	27.23	24.51	21.79	1662720000
26	Metal bulkhead housing	281-2361-ND	17.80	16.02	14.24	1213900000
	Hoods — End Locking - Lower Side — Size 9 (Uses three Size 5 Inserts)					
14	Metal hood, side cable entry, PG29 thread	281-2363-ND	37.48	33.73	29.99	1666710000
15	Metal hood, top cable entry, PG29 thread	281-2364-ND	37.48	33.73	29.99	1666730000

(Continued)

Weidmüller RockStar® Heavy Duty Connectors

Housings and Accessories *(Cont.)*

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
	Bases — End Locking - Lower Side — Size 9 (Uses three Size 5 Inserts)					
26	Metal bulkhead housing	281-2365-ND	54.60	49.15	43.69	1666740000
	Hoods — Side Locking - Lower Side — Size 10 (Uses two Size 6 Inserts)					
14	Metal hood, side cable entry, PG29 thread	281-2367-ND	37.60	33.84	30.08	1666840000
15	Metal hood, top cable entry, PG29 thread	281-2368-ND	42.38	38.14	33.91	1666870000
	Bases — Side Locking - Lower Side — Size 10 (Uses two Size 6 Inserts)					
23	Metal coupling hood, PG29 thread	281-2190-ND	73.01	65.71	58.41	1902740000
	Metal coupling hood, PG36 thread	281-2191-ND	59.32	53.39	47.46	1902750000
25	Metal base housing, 2xPG29 thread	281-2370-ND	57.51	51.76	46.01	1666920000
	Metal base housing, PG36 thread	281-2189-ND	61.92	55.73	49.54	1902610000
22	Metal bulkhead housing	281-2369-ND	35.85	32.27	28.68	1217800000
	Hoods — End Locking - Lower Side — Size 10 (Uses two Size 6 Inserts)					
14	Metal hood, side cable entry, PG29 thread	281-2371-ND	45.63	41.07	36.51	1667120000
15	Metal hood, top cable entry, M32 thread	281-2192-ND	65.17	58.66	52.14	1788450000
	Bases — End Locking - Lower Side — Size 10 (Uses two Size 6 Inserts)					
19	Metal coupling hood, M32 thread	281-2194-ND	74.96	67.46	59.97	1788500000
20	Metal base housing, M32 thread	281-2193-ND	74.94	67.45	59.96	1902670000
26	Metal bulkhead base	281-2372-ND	48.08	43.28	38.47	1219500000
	Hoods — End Locking - Lower Side — Size 12 (Uses two Size 8 Inserts)					
14	Metal hood, side cable entry, PG29 thread	281-2373-ND	71.81	64.63	57.45	1650850000
	Metal hood, side cable entry, PG36 thread	281-2374-ND	68.45	61.61	54.76	1650860000
	Metal hood, side cable entry, PG42 thread	281-2375-ND	68.45	61.61	54.76	1670470000

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
15	Metal hood, top cable entry, PG29 thread	281-2376-ND	71.81	64.63	57.45	1650980000
	Metal hood, top cable entry, PG36 thread	281-2377-ND	68.67	61.81	54.94	1651000000
	Bases — End Locking - Lower Side — Size 12 (Uses two Size 8 Inserts)					
26	Metal bulkhead housing with cover	281-2378-ND	76.58	68.93	61.27	1222900000
20	Metal base housing, 2xM40 thread	281-2195-ND	149.06	134.16	119.25	1788360000
	Plastic Cable Glands — IP68					
27	PG11 threads	281-2380-ND	1.88	1.70	1.51	1568990000
	PG16 threads	281-2203-ND	2.14	1.93	1.71	1569010000
	PG21 threads	281-2204-ND	2.98	2.69	2.39	1569020000
	PG29 threads	281-2205-ND	7.42	6.68	5.94	1569030000
	Brass Cable Glands — IP54					
27	PG11 threads	281-2381-ND	1.72	1.55	1.38	0260700000
	PG16 threads	281-2382-ND	2.32	2.09	1.86	0261400000
	PG21 threads	281-2383-ND	2.96	2.66	2.37	0260900000
	PG29 threads	281-2384-ND	4.59	4.14	3.68	0261000000
	NPT Adapters — IP54					
—	PG11 to NPT 3/8”	281-2206-ND	9.71	8.75	7.77	1712340000
	PG13.5 to NPT 1/2”	281-2207-ND	9.71	8.75	7.77	1712350000
	PG16 to NPT 1/2”	281-2385-ND	9.71	8.75	7.77	1712360000
	PG21 to NPT 3/4”	281-2386-ND	9.71	8.75	7.77	1712370000
	PG36 to NPT 1 1/4”	281-2208-ND	18.70	16.83	14.96	1712380000
	PG29 to NPT 1”	281-2387-ND	9.71	8.75	7.77	1712390000
	Coding Pin for Inserts					
—	Coding Pins	281-2209-ND	.65	.59	.53	1203600000

Amphenol®

Amphenol-Tuchel Electronics GmbH

Heavy Duty 146-E Series Power Connector Kits

No. of Positions	Latch Style	Kit Type	Cable Entry	Cable Diameter Inch	Hood Profile	Spring Cover	Digi-Key Part No.	Price Each 1	10	50	Amphenol-Tuchel Part No.
				Bulkhead Housing Kits with Female Inserts							
6 + G	Single	Panel	—	—	—	No	361-1150-ND	20.30	19.62	18.27	C146 10E006 940 1
6 + G	Single	Panel	—	—	—	Yes	361-1151-ND	25.49	24.64	22.94	C146 10E006 942 1
10 + G	Single	Panel	—	—	—	No	361-1156-ND	26.12	25.25	23.51	C146 10E010 941 1
10 + G	Single	Panel	—	—	—	Yes	361-1157-ND	31.19	30.15	28.07	C146 10E010 942 1
16 + G	Single	Panel	—	—	—	No	361-1162-ND	28.95	27.99	26.06	C146 10E016 941 1
16 + G	Single	Panel	—	—	—	Yes	361-1163-ND	34.19	33.05	30.77	C146 10E016 942 1
24 + G	Single	Panel	—	—	—	No	361-1166-ND	33.26	32.15	29.93	C146 10E024 941 1
24 + G	Single	Panel	—	—	—	Yes	361-1167-ND	39.73	37.75	36.19	C146 10E024 942 1
24 + G	Double	Panel	—	—	—	No	361-1176-ND	35.06	33.89	31.55	C146 10E024 940 1
				Mating Hood Kits with Male Inserts							
6 + G	Single	Cable	Side	0.315 ~ 0.630	Low	—	361-1152-ND	21.39	20.68	19.26	C146 10E006 943 1
6 + G	Single	Cable	Side	0.433 ~ 0.866	High	—	361-1153-ND	23.67	22.89	21.31	C146 10E006 945 8
6 + G	Single	Cable	Top	0.315 ~ 0.630	Low	—	361-1154-ND	22.31	21.57	20.08	C146 10E006 944 1
6 + G	Single	Cable	Top	0.433 ~ 0.866	High	—	361-1155-ND	23.28	22.51	20.96	C146 10E006 946 8
10 + G	Single	Cable	Side	0.315 ~ 0.630	Low	—	361-1158-ND	26.70	25.81	24.03	C146 10E010 943 1
10 + G	Single	Cable	Side	0.433 ~ 0.866	Low	—	361-1159-ND	26.54	25.66	23.89	C146 10E010 946 1
10 + G	Single	Cable	Top	0.315 ~ 0.630	Low	—	361-1160-ND	26.43	25.55	23.79	C146 10E010 944 1
10 + G	Single	Cable	Top	0.433 ~ 0.866	Low	—	361-1161-ND	27.65	26.73	24.89	C146 10E010 945 1
16 + G	Single	Cable	Side	0.433 ~ 0.866	Low	—	361-1164-ND	30.93	29.90	27.84	C146 10E016 943 1
16 + G	Single	Cable	Top	0.433 ~ 0.866	Low	—	361-1165-ND	30.80	29.77	27.72	C146 10E016 944 1
24 + G	Single	Cable	Side	0.433 ~ 0.866	Low	—	361-1168-ND	37.14	35.91	33.43	C146 10E024 949 1
24 + G	Single	Cable	Side	0.433 ~ 0.866	High	—	361-1169-ND	36.84	35.62	33.16	C146 10E024 947 8
24 + G	Single	Cable	Side	0.748 ~ 1.220	Low	—	361-1170-ND	41.16	39.79	37.05	C146 10E024 955 1
24 + G	Single	Cable	Side	0.748 ~ 1.220	High	—	361-1171-ND	41.17	39.12	37.50	C146 10E024 956 8
24 + G	Single	Cable	Top	0.433 ~ 0.866	Low	—	361-1172-ND	37.28	36.04	33.55	C146 10E024 950 1
24 + G	Single	Cable	Top	0.433 ~ 0.866	High	—	361-1173-ND	36.84	35.62	33.16	C146 10E024 948 8
24 + G	Single	Cable	Top	0.748 ~ 1.220	Low	—	361-1174-ND	38.60	36.67	35.16	C146 10E024 958 1
24 + G	Single	Cable	Top	0.748 ~ 1.220	High	—	361-1175-ND	41.24	39.19	37.57	C146 10E024 957 8
24 + G	Double	Cable	Side	0.433 ~ 0.866	Low	—	361-1177-ND	35.76	34.57	32.19	C146 10E024 945 1
24 + G	Double	Cable	Side	0.433 ~ 0.866	High	—	361-1178-ND	35.22	34.05	31.70	C146 10E024 943 8
24 + G	Double	Cable	Side	0.748 ~ 1.220	Low	—	361-1179-ND	40.64	39.29	36.58	C146 10E024 953 1
24 + G	Double	Cable	Side	0.748 ~ 1.220	High	—	361-1180-ND	41.01	39.65	36.91	C146 10E024 951 8
24 + G	Double	Cable	Top	0.433 ~ 0.866	Low	—	361-1181-ND	36.68	35.46	33.01	C146 10E024 946 1
24 + G	Double	Cable	Top	0.433 ~ 0.866	High	—	361-1182-ND	34.82	33.66	31.34	C146 10E024 944 8
24 + G	Double	Cable	Top	0.748 ~ 1.220	Low	—	361-1183-ND	39.44	38.13	35.50	C146 10E024 954 1
24 + G	Double	Cable	Top	0.748 ~ 1.220	High	—	361-1184-ND	41.01	39.65	36.91	C146 10E024 952 8

AVX ***NEW!*** 8383 Series High Temperature Box Headers

Features: • Molded from high temperature UL94V-0 nylon • .100” (2.54mm) spacing • Mates with all IDC socket connectors • 1A current rating • Operating Temperature Range: -55°C ~ 125°C

No. of Positions	Dimensions - (mm) L	A	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
10	19.90	17.90	478-4878-ND	2.30	1.97	1.53	008383010000010
14	24.98	22.98	478-4879-ND	2.61	2.24	1.74	008383014000010
16	27.52	25.52	478-4880-ND	3.02	2.58	2.01	008383016000010
20	32.60	30.60	478-4881-ND	3.02	2.58	2.01	008383020000010
26	40.22	38.22	478-4882-ND	4.46	3.82	2.97	008383026000010
34	50.38	48.38	478-4883-ND	4.46	3.82	2.97	008383034000010
40	58.00	56.00	478-4884-ND	7.79	6.67	5.19	008383040000010

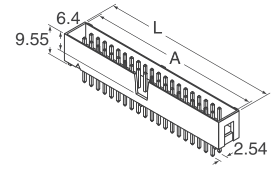

MicroCross™ Digital Visual Interface (DVI) Connector System

MicroCross DVI has been chosen by the DDWG as the standard digital interface for connecting a host device and display device to support high-resolution video applications. Supporting one or two digital channels driven by Transition Minimized Differential Signaling (TMDS) and/or a high bandwidth analog interface, the MicroCross was chosen for its size, performance and cost. The innovative contact design provides the industry with a video interface design which supports over 1.65Gb/s per differential pair (for a total 9.9Gb/s over a dual link implementation) and 2.5GHz support for the analog interface. This innovative approach addresses the problem of an industry in transition. By providing a single high performance interface, precious board I/O space is saved and lower system costs are achieved. The interface provides added benefits of a high cycle life interface for mobile applications and the improved EMI performance needed for high speed links. The EMI performance is achieved through the 360° shielding of the MicroCross DVI cable and connector design.

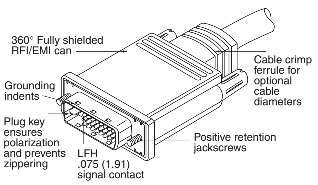
360° Fully shielded RFI/EMI can
Grounding indents
Plug key ensures polarization and prevents zippering
LFH .075 (1.91) signal contact
Cable crimp ferrule for optional cable diameters
Positive retention jackscrews

Dimensions in mm

Fig. 1

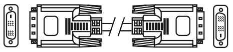

Fig. 2

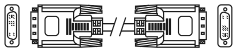

Fig. 3

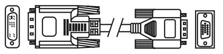

Fig. 4

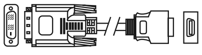

Fig. 5

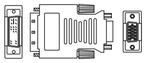

Fig. 6

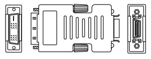

Fig. 7

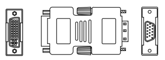

Fig. 8

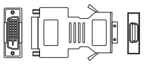

Fig. 9

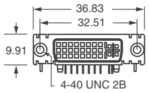

Fig. 10

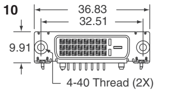

Fig. 11

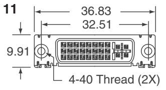

Fig. 12

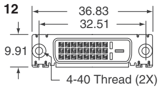

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	DVI-Digital to DVI-Digital, Single Link	WM18509-ND	21.70	19.90	18.09	88741-8000
2	DVI-Analog to DVI-Analog	WM18510-ND	42.54	39.00	35.45	88741-8200
3	DVI-Analog to VGA	WM18511-ND	34.73	31.84	28.94	88741-8300
4	DVI-Digital to DFP	WM18512-ND	46.30	42.45	38.59	88741-8600
5	DVI-Analog Plug to VGA Receptacle	WM18513-ND	10.94	10.03	9.12	88741-8700
6	DVI-Digital Plug to DFP Receptacle	WM18514-ND	19.10	17.51	15.92	88741-8800
7	DVI-I-Analog/Digital Receptacle to VGA Plug	WM18515-ND	21.99	20.17	18.33	88741-9100
8	DVI-Digital Receptacle to DFP Plug	WM18516-ND	25.75	23.61	21.47	88741-9300
9	DVI-I R/Angle Receptacle, Gold Flash	WM5600-ND	5.01	4.59	4.18	74320-1004
10	DVI-D R/Angle Receptacle, Gold Flash	WM5601-ND	4.76	4.37	3.98	74320-4004
10	DVI-D R/Angle Receptacle, Gold	WM5718-ND	5.01	4.59	4.18	74320-4000
11	DVI-I-Analog/Digital Receptacle, Gold	WM5714-ND	4.81	4.42	4.02	74320-3000
11	DVI-I-Analog/Digital Receptacle, Gold Flash	WM5715-ND	4.57	4.19	3.81	74320-3004
12	DVI-D Digital Receptacle, Gold	WM5716-ND	4.62	4.24	3.85	74320-5000
12	DVI-D Digital Receptacle, Gold Flash	WM5717-ND	4.38	4.02	3.65	74320-5004

DisplayPort® Interconnect System

Dimensions in mm

The DisplayPort is designed for internal and external system solution for high bandwidth audio and video data transfer in the notebook and PC market.

Cable Assembly Features: Physical: • Positions: 20 • Color-Resin: Black • Material-Metal: Brass; Plating Mating: Gold; Resin: High Temperature Thermoplastic • Wire Size AWG: 30 **Electrical:** • Current: 0.50A maximum • Impedance: 100Ω • Shielded • Voltage: 40V maximum

Connector Features: Physical: • Positions: 20 • Operating Temperature Range: -20°C ~ 85°C **Material:** • Housing: High Temperature Thermal Plastic, Black, 30% Glass-filled, UL 94V-0 • Terminal and Shell: Copper Alloy **Plating:** • Terminal: Contact area 0.76μm, Gold plating and solder tail 1 ~ 3 μm, Tin Bismuth under plate 1 ~ 3μm, Nickel plating overall • Shell: 1.27 ~ 2.54μm solderable Nickel plating overall **Electrical:** • Current: 0.50A maximum • Shield Type: Full Shield • Voltage: 40VAC maximum

Fig. 1

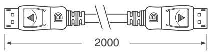

Fig. 2 ***NEW!***

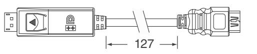

Fig. 3 ***NEW!***

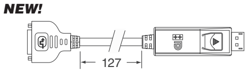

Fig. 4

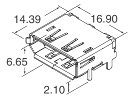

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Tape & Reel‡ Pricing 250	Molex Part No.
		Cable Assembly					
1	With Latch, 2m	WM19272-ND	33.92	31.10	28.27	—	68783-0007
	Without Latch, 2m	WM19273-ND	33.07	30.32	27.56	—	68783-0008
2	HDMI F to DisplayPort M	WM19294-ND ***NEW!***	63.81	58.50	53.18	—	74766-0005
3	DVI-D F to DisplayPort M	WM19295-ND ***NEW!***	36.80	33.74	30.67	—	74766-0006
		Connector Receptacle					
4	Right Angle, SMT, 0.50mm	WM19271CT-ND†	8.48	7.78	7.07	1236.75	47272-0001

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

High Definition Multimedia (HDMI) Interface Connector System

High Definition Multimedia Interface (HDMI) connectors and cable assemblies provide an uncompressed digital link between consumer electronics equipment such as DVD players, set-top boxes and audio/video monitors such as plasma display screens for high-definition televisions. HDMI is a small, user-friendly interconnect that provides up to 5 Gbps of bandwidth to support high-definition video plus multi-channel audio in a single cable.

HDMI Receptacle

Features: • Optional mounting flange offers screw panel mounting and grounding • Dimples provide additional impedance control • Wide solder tabs for PCB hold-down • Grounding fingers provide mechanical and electrical stability.

Specifications: • **Circuits/Positions:** 19 • **Pitch/Center Spacing:** 0.50mm (.020 in.) • **Voltage:** 40V maximum • **Current:** 0.5A maximum

Cable Assembly

Features: • Compact, user-friendly design meets consumer equipment needs • HDMI-DVI cables-DVI backward compatible • Mounting flange-protects solder joints; additional grounding • Signal layout-low impedance mismatch • Fully shielded-ESD protection

Specifications: • **Gender:** Male-to-Male • **Cable Length:** 1.0m (3.28 feet) • Shielded • **Wire Size:** 28AWG

Fig. 1

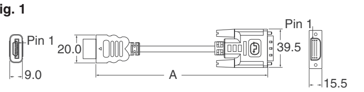

Fig. 2

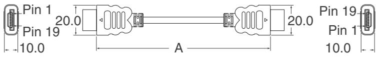

Fig. 3

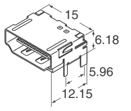

Fig. 4

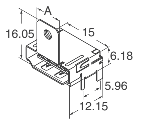

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	HDMI to DVI-Digital Cable Assembly	1,000	WM19082-ND	14.76	13.53	12.30	88768-3500
		2,000	WM19090-ND	16.96	15.55	14.14	88768-3510
2	HDMI to HDMI Cable Assembly	1,000	WM19083-ND	13.40	12.29	11.17	88768-9800
		2,000	WM19091-ND	15.60	14.31	13.01	88768-9810
3	HDMI Receptacle, Right Angle, SMT	—	WM19084CT-ND†	5.61	5.15	4.68	500254-1927
		—	WM19084TR-ND‡		1701.50/500		500254-1927
		—	WM19086CT-ND†	2.38	2.19	1.99	47151-0001
		—	WM19086TR-ND‡		486.15/350		47151-0001
		—	WM19088CT-ND†	2.38	2.19	1.99	47151-1001
		—	WM19088TR-ND‡		486.15/350		47151-1001
4	Panel Mount HDMI Receptacle, Right Angle with Screw Flange, SMT	7.5	WM19085-ND	5.83	5.35	4.87	500254-1931
		9.5	WM19087-ND	2.38	2.19	1.99	47151-0002
		9.5	WM19089-ND	2.38	2.19	1.99	47151-1002

† Cut Tape ‡ Tape and Reel

Serial ATA Connectors

Dimensions in mm

Fig. 1

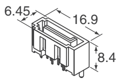

Fig. 2

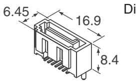

Fig. 3

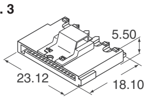

Fig. 4

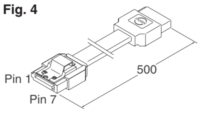

Fig. 5

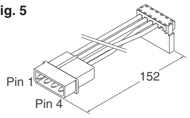

Fig. 6

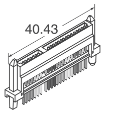

Fig. 7

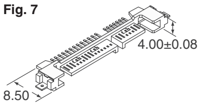

Fig. 8

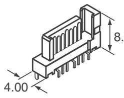

Fig. 9

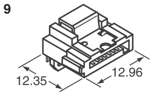

Fig. 10

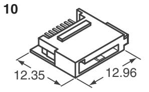

Fig. 11

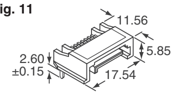

Fig.	No. of Pos.	Description	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
1	7	Header Vertical Through Hole	WM19022-ND	1.51	13.35	88.99	67800-4005
			WM19103-ND◆	1.56	13.78	91.87	67800-8005
2	7	Header Vertical SMT	WM19104-ND◆	1.06	9.37	62.47	67800-5005
3	15	Plug Latching IDT	WM19024-ND◆	1.47	12.95	86.36	67926-0001
—	5	IDT Feed Through Cover	WM19025-ND	.26	2.32	15.44	67926-0041
		IDT Feed To Cover	WM19026-ND	.26	2.32	15.44	67926-0040
4	7	Cable Assembly	WM19027-ND◆	3.18	28.09	187.27	68561-0014
5	15	Cable Assembly	WM19028-ND◆	1.63	14.43	96.17	68561-0019
6	22	Backplane Receptacle	WM19105-ND◆	5.31	46.85	312.35	87678-1001
		Backplane Recpt. Low Profile	WM2071-ND◆	3.53	32.34	264.58	87779-1001
		Backplane Receptacle SMD	WM2070-ND◆	3.53	32.34	264.58	87713-1001
7	22	Plug Right Angle SMD	WM19111-ND◆	5.25	46.30	308.67	87703-0001
8	7	Header Through Hole	WM19106-ND◆	1.06	9.37	62.47	67491-1032
9	7	R/A Receptacle with Latch	WM19109-ND◆	1.31	11.58	77.17	67489-0005
		Receptacle Straight w/Latch	WM19110-ND◆	1.31	11.58	77.17	67489-9005
10	7	Cable R/A Receptacle	WM19107-ND◆	1.06	9.37	62.47	67489-1005
		Cable Receptacle	WM19108-ND◆	1.06	9.37	62.47	67489-8005
11	7	Plug Right Angle with Shroud	WM19112CT-ND◆†	1.06	9.37	62.47	47080-4005
			WM19112TR-ND◆‡		166.06/380		47080-4005

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

0.80mm (.031") Pitch HandyLink™ I/O Interconnect System

Dimensions in mm

Fig. 1

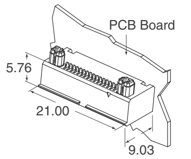

Fig. 2

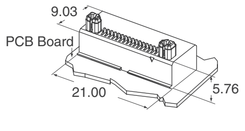

Fig. 3

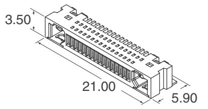

Fig. 4

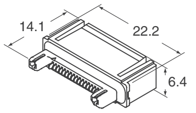

Fig. 5

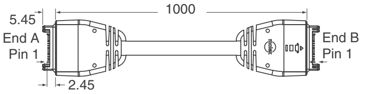

Fig. 6

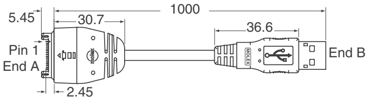

Molex's 0.80mm (.031") pitch HandyLink product family of connectors offers a perfect solution to any hand-held device design or application.

The HandyLink family includes a right-angle SMT receptacle, PCB plug and perpendicular and parallel mounted cradle connectors for docking applications.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Molex Part No.
1	Plug, 16 Pos., Rt. Angle, SMT Cradle	WM17129CT-ND†	6.24	5.51	—	3.68	2.94	WM17129TR-ND	290	707.31	45560-0161
2	Plug, 16 Pos., Vertical, SMT Cradle	WM17128CT-ND†	6.24	5.51	—	3.68	2.94	WM17128TR-ND	290	707.31	45560-0160
3	Receptacle, 16 Pos., Rt. Angle, SMT	WM17127CT-ND†	4.41	3.90	—	2.60	2.08	WM17127TR-ND	1,000	1724.00	44828-1162
4	Plug, 16 Pos., Vert., PCB Termination	WM17126-ND	6.49	5.73	—	3.82	3.06	—	—	—	45593-1600
5	Cable Assembly, 16 Pos., Male - Male	WM17124-ND	27.56	22.05	18.38	—	14.70	—	—	—	36697-0001
6	Cable Assembly, HandyLink to USB	WM17125-ND	12.99	10.39	8.66	—	6.93	—	—	—	36697-0021

† Cut Tape

Technology to Inspire Innovation

DD1 and DD2 Series 0.5mm Connectors

DD1 Series: Specifications: • Rated Current: Signal: 0.5A, Power: 1.0A • Rated Voltage: 30VACr.m.s. • Dielectric Withstanding Voltage: 500DCV per minute • Insulation Resistance: 1000MΩ minimum (Initial) • Contact Resistance: 50mΩ maximum (Initial) • Operating Temperature: -25°C ~ 75°C **Materials and Finishes:** Contact: Copper Alloy/Contact: Gold plating over Nickel; Terminal: Gold flash plating over Nickel • Insulator: Glass filled nylon resin • Shell: Stainless steel/Tin plating over Nickel

DD2 Series: Specifications: • Rated Current: Signal: 0.5A, Power 1.0A • Rated Voltage: 30VACr.m.s. • Dielectric Withstanding Voltage: 300VACr.m.s. per minute • Insulation Resistance: 1000MΩ minimum (Initial) • Contact Resistance: 50mΩ maximum (Initial) • Operating Temperature: -25° ~ 75°C • Durability Mating Cycles: 10,000 times **Materials and Finishes:** • Contact: Copper Alloy/Contact: Gold plating over Nickel, Terminal: Tin plating over Nickel • Insulator: Glass filled nylon resin • Shell: Stainless Steel/Main frame: Nickel plating, Through-hole: Tin plating over Nickel

Dimensions in mm

Fig. 1

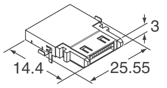

Fig. 2

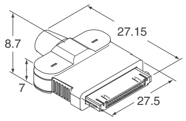

Fig. 3

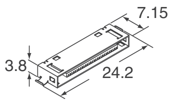

Fig. 4

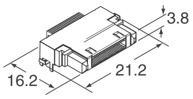

Fig. 5

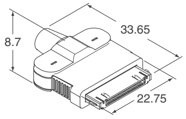

Fig. 6

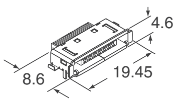

Fig.	No. of Positions	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	JAE Part No.
				DD1 Series						
1	30	Cradle	670-1020-1-ND	5.01	2.93	2.68	670-1020-2-ND	500	1209.98	DD1B030HA1R500
2		Plug	670-1021-ND†	7.28	4.95	4.37	—	—	—	DD1P030MA1
3		Receptacle	670-1022-1-ND	4.60	2.69	2.46	670-1022-2-ND	1,300	2147.97/M	DD1R030HA1R1300
				DD2 Series						
4	40	Cradle	670-1023-1-ND	6.37	4.34	3.83	670-1023-2-ND	500	1783.60	DD2B040HA2R500
5		Plug	670-1024-ND†	11.78	8.01	7.07	—	—	—	DD2P040MA1
6		Receptacle	670-1025-1-ND	6.64	4.52	3.99	670-1025-2-ND	1,000	3534.08	DD2R040HP2R1000

† Bulk

DA1 Series 0.6mm Connectors

Low profile surface mount interface connectors for use in compact and slim mobile information terminal devices such as PDAs, HPCs, and notebook PCs.

Specifications: • Current: Signal: 0.5A, Power 1.0A • Dielectric Withstanding Voltage: 250VACr.m.s. per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 50mΩ maximum • Operating Temperature: -25°C ~ 75°C • Applicable Wire Size: AWG #28 maximum

Materials and Finishes: • Insulator: Receptacle and Cradle: Plus Nylon (UL 94V-0, Black); Plug: Nylon • Contact: Copper Alloy, Gold plating over Lead-Nickel • Lead Contact: Tin • Shell: Steel, Nickel Plating

Fig. 1

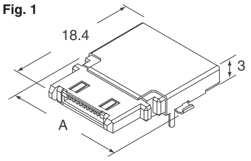

Fig. 2

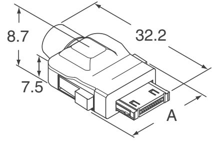

Fig. 3

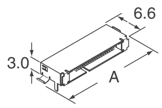

Fig.	No. of Positions	Dimension A (mm)	Description	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
1	10	16.2	Cradle, Right Angle With Hold Down	670-1005-ND	3.87	2.26	2.07	DA1B010H91E
	18	21.0	Cradle, Right Angle With Hold Down	670-1007-ND	4.23	2.47	2.26	DA1B018H91E
	26	26.95	Cradle, Right Angle With Hold Down	670-1009-1-ND† 670-1009-2-ND‡	7.30	4.14 1702.40/500	3.90	DA1B026H91EE500 DA1B026H91EE500
2	10	17.2	Cable Plug	670-1010-ND 670-1011-ND	6.69 6.69	3.80 3.80	3.57 3.57	DA1P010M94E DA1P010M95E
	18	21.0	Cable Plug	670-1012-ND 670-1013-ND	7.08 7.08	4.02 4.02	3.78 3.78	DA1P018M91E DA1P018M92E
	26	27.0	Cable Plug	670-1014-ND	6.78	4.61	4.07	DA1P026M92E
3	10	17.7	Receptacle, Right Angle With Hold Down	670-1017-ND	3.51	2.11	1.88	DA1R010H91E
	18	22.5	Receptacle, Right Angle With Hold Down	670-1018-ND	3.87	2.26	2.07	DA1R018H91E
	26	32.6	Receptacle, Right Angle Without Hold Down	670-1019-ND	4.92	2.87	2.63	DA1R026L91E
—	—	—	Tool for DA1 Series	670-1188-ND	862.75	—	—	CT150-6-RH07

† Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RL01 and RL01S Series 0.8mm Connectors

Dim. in mm

Specifications: • Current Rating: 0.5A • Dielectric Withstanding Voltage: 250 VACr.m.s. per minute • Insulation Resistance: 100MΩ minimum • Contact Resistance: 50mΩ maximum • Operating Temperature: -25°C ~ 75°C • Applicable PCB Thickness: 1.0mm • Applicable Wire Size: AWG #25 ~ #30 (max.) **Materials and Finishes: Receptacle:** • Shell: Stainless Steel • Contact: Copper Alloy; Connecting Area: Gold Plating over Palladium over Nickel; Terminal Area: Gold Flash PPS • Insulator: (UL 94V-0) Black **Plug:** • Backshell: Stainless Steel • Contact: Copper Alloy; Connecting Area: Gold Plating over Palladium over Nickel; Terminal Area: Gold Flash PPS • Insulator: Glass-filled Nylon (UL 94V-0, Black) • Hood: Polycarbonate • Clamp Barrel: Copper Alloy Nickel Plated

Fig.	Number of Positions	Dimension A (mm)	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
			RL01 Series				
1	12	14.1	670-1098-ND	5.64	3.29	3.01	RL01-P12S-C4E
			670-1099-ND	5.64	3.29	3.01	RL01-P12S-C5E
	14	15.7	670-1100-ND	5.85	3.42	3.12	RL01-P14S-C4E
			670-1101-ND	5.85	3.42	3.12	RL01-P14S-C5E
2	12	16.75	670-1102-ND	2.87	1.64	1.40	RL01-R12PE
	14	18.35	670-1103-ND	3.08	1.76	1.50	RL01-R14PE
			RL01S Series				
3	16	1.4	670-1104-ND	6.15	3.49	3.28	RL01S-P16S-C36BE
		1.4	670-1105-ND	6.15	3.49	3.28	RL01S-P16S-C36GE
		1.2	670-1106-ND	5.97	3.49	3.19	RL01S-P16S-C4E
		1.2	670-1107-ND	5.97	3.49	3.19	RL01S-P16S-C5E
4	16	18.5	670-1108-ND	3.29	1.88	1.60	RL01S-R16P-HE
			670-1109-ND	3.29	1.88	1.60	RL01S-R16P-SE

Fig. 1

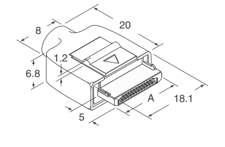

Fig. 2

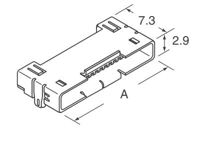

Fig. 3

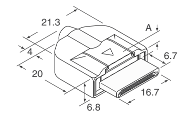

Fig. 4

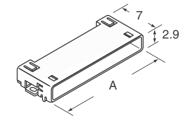

9157 Series I/O Connectors

The 9157 series was specifically designed for portable equipment. AVX now offers this two-part system as a standard product. The fixed SMT socket is designed to be housed within the confined dimensional constraints of the portable device. The plug/cover connector has sprung contacts and is designed for termination to accessory equipment. There is an option to include a switching RF coax.

Features: • Metal latching area integral to socket which saves PCB real estate • Single sprung plug contact design gives 10,000 mating cycles and cleaning/wiping action

Applications: • Mobile phones • PDA • Medical • Docking/Charging for any portable device

Dim. in mm

Fig. 1

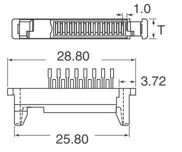

Fig. 2

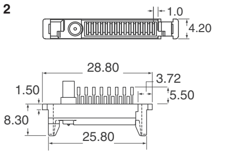

Fig. 3

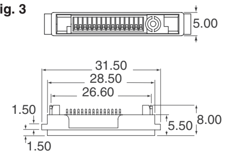

Fig. 4

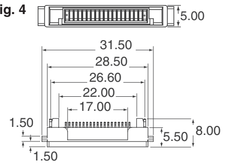

Fig. 5

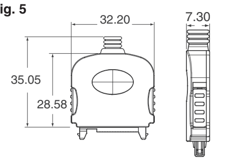

Fig.	Description	Dim. T (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing	AVX Part No.
1	Plug, 15 Position, without RF Connector	4.2	478-4506-ND†	5.27	4.51	3.51	—	—	—	109157015000006
	Plug, 19 Position, without RF Connector	3.0	478-4508-ND†	7.43	6.36	4.95	—	—	—	109157019000006
2	Plug, 15 Position, with RF Connector	—	478-4507-ND†	28.89	24.72	19.26	—	—	—	109157015001006
3	Socket, 15 Position, without RF Connector	—	478-4509-1-ND	4.10	3.51	2.73	478-4509-2-ND	600	955.80	209157015000006
	Socket, 15 Position, with RF Connector	—	478-4510-1-ND	5.90	5.05	3.93	478-4510-2-ND	600	1375.80	209157015001006
4	Socket, 19 Position, without RF Connector	—	478-4511-1-ND	8.96	7.67	5.97	478-4511-2-ND	600	2089.80	209157019000006
5	Cover Kit for 15 Position Plug, Screw/Press Fit, 3.5 Dia. Cable	—	478-4512-ND†	5.58	4.78	3.72	—	—	—	309157970000035

† Bulk

9257 Series I/O Connectors

Dim. in mm

AVX offers this plug and socket reduced size system as a standard product. The fixed SMT socket is designed to be mounted on a PCB and housed within a portable device **Features:** • No latching is required due to the click design of the contacts • Compact size to optimize PCB real estate • Positive alignment and orientation of the plug and socket • 5,000 mating cycles and 1A rated **Applications:** • Cell Phones • Handheld Devices • Industrial Modules • Medical Electronics

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing	AVX Part No.
1	Plug, 16 Pos.	478-4513-ND†	4.01	3.43	2.67	—	—	—	109257016001003
2	Socket, 16 Pos.	478-4514-1-ND	2.97	2.55	1.98	478-4514-2-ND	1,100	1155.00/M	209257016001013

† Bulk

Fig. 1

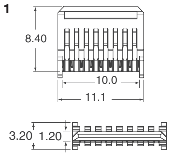

Fig. 2

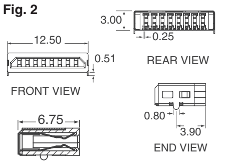

9175/9176 Series Wire-to-Board Strip IDC Connectors

The 9175/9176 series from AVX offers customers the ability of connecting individual wires to a single row of contacts using IDC technology. Available as a 2- or 3-pin connector, it is both low profile and has a small PCB footprint. The connector is SMT assembled to the PCB prior to assembly of the wire

Features: • Small, single row IDC • Uses both stranded and solid wire • Insulators are end-to-end stackable for higher pin counts • Uses simple hand tool for higher volume applications **Applications:** • PCB-to-PCB individual wire interconnect • High volume and high speed assembly • Device to PCB interconnect

Dim. in mm

Fig. 1

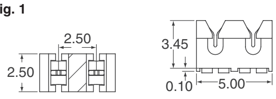

Fig. 2

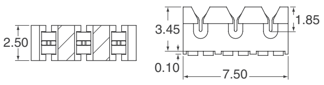

Fig. 3

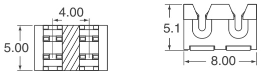

Fig. 4

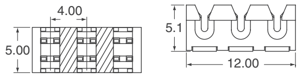

Fig.	No. of Positions	Wire AWG	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing	AVX Part No.
1	2	26	478-4515-1-ND	1.53	13.09	102.00	478-4515-2-ND	2,000	595.00/M	009175002001006
2	3	28	478-4516-1-ND	1.71	14.63	114.00	478-4516-2-ND	2,000	665.00/M	009175003001006
3	2	18	478-4613-1-ND	1.80	15.20	120.00	478-4613-2-ND	1,000	700.00	009176002001006
		20	478-4614-1-ND	1.85	15.58	123.00	478-4614-2-ND	1,000	718.00	009176002011006
		22	478-4615-1-ND	1.85	15.58	123.00	478-4615-2-ND	1,000	718.00	009176002022006
		24	478-4616-1-ND	1.85	15.58	123.00	478-4616-2-ND	1,000	718.00	009176002032006
4	3	18	478-4617-1-ND	1.94	16.34	129.00	478-4617-2-ND	1,000	753.00	009176003001006
		20	478-4618-1-ND	1.94	16.34	129.00	478-4618-2-ND	1,000	753.00	009176003011006
		22	478-4619-1-ND	1.94	16.34	129.00	478-4619-2-ND	1,000	753.00	009176003022006
		24	478-4620-1-ND	1.94	16.34	129.00	478-4620-2-ND	1,000	753.00	009176003032006
Hand Tool for 9175 Series			478-4517-ND	7.61	—	—	—	—	—	069175700401000
Hand Tool for 9176 Series			478-4621-ND	28.22	—	—	—	—	—	067000773001000
2.1mm Bit for 9176 Hand Tool			478-4622-ND	9.38	—	—	—	—	—	069176701601000
1.6mm Bit for 9176 Hand Tool			478-4623-ND	9.38	—	—	—	—	—	069176701602000

HIROSE ELECTRIC CO.,LTD.

Miniature IO and Power Connectors

ST Series

Applications: • Hand-held terminals • PDA equipment • Notebook computers • Mobile communications equipment • Office automation equipment • Measuring instruments **Specifications:** • Rated Voltage: 100VAC • Rated Current: 0.5A • Operating Temperature: -30°C ~ 80°C • Insulation resistance 100MΩ @ 250VDC • Contact resistance: 60mΩ maximum **Materials:** • Insulator: Glass reinforced thermoplastic, black color, UL94V-0 • Contacts: Copper alloy, selective gold plating • Shell: Stainless steel, solder plated

Fig.	Description	Pos.	Dim. (mm) X	Y	Digi-Key Part No.	Price Each 1	10	25	50	100	Tape and Reel◊ Qty.	Pricing	Hirose Part No.
1	Plug, Solder‡	10	7	25.5	H11360-ND	3.06	2.54	—	2.12	1.88	—	—	ST40-10S-CV(80)
	Plug, Shielded‡	10	7	25.5	H11466-ND	3.31	2.74	—	2.28	2.06	—	—	ST40X-10S-CV(80)
	Plug, Shielded‡	18	7	25.5	H11361-ND	4.73	3.92	—	3.26	2.94	—	—	ST40X-18S-CV(80)
	Plug, Shielded‡	24	7	25.5	H11362-ND	4.52	3.75	—	3.12	2.81	—	—	ST40X-24S-CV(80)
	Plug, Shielded*	24	9	25.6	H10354-ND	5.86	4.85	—	4.04	3.64	—	—	ST40X-24S-CV1(80)
	Plug, Solder, Shielded▲	26	11.4	35.7	H11462-ND	5.25	4.35	—	—	3.26	—	—	ST40X-36S-CV(80)
2	Cable Clamp for 6.8mm Cables	—	—	—	H11467-ND	.40	.28	—	.22	.19	—	—	ST40X-CM (6.8)
	Cable Clamp for 5.8mm Cables	—	—	—	H1952-ND	.65	.46	—	.36	.31	—	—	ST40X-CM(5.8)
	Cable Clamp for 4.0mm Cables	—	—	—	H10355-ND	.35	.22	—	.15	.13	—	—	ST40X-CM(4.0)
	Cable Clamp for 4-5mm Cables	—	—	—	H11518-ND	.57	.47	—	.38	.34	—	—	ST40X-CM(4.0-5.0)
	Cable Clamp for 6.8mm Cables	—	—	—	H11519-ND	.65	.46	—	.36	.31	—	—	ST40X-CM1(6.8)
3	Cable Bushing 5.8mm	—	—	—	H1953-ND	.80	.66	—	.53	.48	—	—	ST40X-BS(5.8)
	Cable Bushing 6.8mm	—	—	—	H11517-ND	.80	.66	—	.53	.48	—	—	ST40X-BS1(6.8)
	Cable Bushing 4.0mm	—	—	—	H11516-ND	.57	.47	—	.38	.34	—	—	ST40X-BS(4.0)
4	Receptacle, R/A SMD	10	10.5	11.5	H1958CT-ND†	1.69	—	1.30	—	1.04	1,500	692.00/M	ST60-10P
	Receptacle, R/A SMD	18	14.5	15.5	H11363CT-ND†	2.08	—	1.60	—	1.28	1,500	851.00/M	ST60-18P(50)
	Receptacle, R/A SMD	24	17.5	18.5	H1954CT-ND†	2.18	—	1.68	—	1.35	—	—	ST60-24P
	Receptacle, R/A SMD	24	17.5	18.5	H11364CT-ND†	2.57	—	1.98	—	1.58	1,500	1051.00/M	ST60-24P(50)
	Receptacle, R/A SMD	36	25	26	H11463CT-ND†	2.90	—	2.25	—	1.80	1,500	1264.00/M	ST60-36P
5	Plug, R/A Cradle	18	13.78	17	H11465CT-ND†	3.71	—	2.88	—	2.31	900	1531.80	ST60X-18S
	Plug, R/A Cradle	36	24.25	27.5	H11464CT-ND†	4.35	—	3.38	—	2.70	900	1795.50	ST60X-36S
6	Plug, Vert., Cradle, SMD	18	27.6	—	H11365CT-ND†	4.44	—	3.45	—	2.76	400	887.60	ST80X-18S(50)
	Plug, Vert., Cradle, SMD	24	29.9	—	H10356CT-ND†	4.15	—	3.22	—	2.58	400	829.60	ST80X-24S(50)
7	Plug, Vert., Cradle, SMD	10	—	—	H1957CT-ND†	3.07	—	2.39	—	1.91	400	614.80	ST80X-10S

† Cut Tape ‡ Use with 4mm Max. Dia. Cables * Use with 5.8mm Max. Dia. Cables ▲ Use with 7mm Max. Dia. Cables ◊ For Tape and Reel part number, change CT-ND to TR-ND

Fig. 1

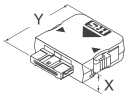

Fig. 2

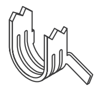

Fig. 3

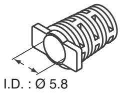

Fig. 4

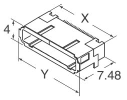

Fig. 5

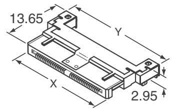

Fig. 6

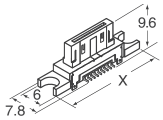

Fig. 7

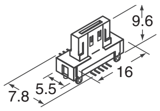

LX Series

Applications: • Digital cameras (DSC) • PDA • Mobile phones • Low-profile electronics devices **Specifications:** • Rated Voltage: 50VAC • Rated Current: 0.5A • Operating Temperature: -40°C ~ 70°C • Insulation resistance: 1000MΩ @ 100VDC • Contact resistance: 70mΩ maximum @ 100mA DC • Withstanding Voltage: No flashover or insulation breakdown @ 250VAC/one minute **Plug Materials:** • Insulator and Covers: Synthetic resin, black color, UL94V-0 • Contacts: Copper Alloy, selective Gold plating • Metal shield: Stainless Steel • Strain relief clamp: Copper Alloy • Self tapping screws: Steel, Trivalent black chromate **Receptacle Materials:** • Insulator: Synthetic resin, black color, UL94V-0 • Contacts: Copper Alloy, selective Gold plating • Shell: Stainless Steel, solder plated

Fig.	No. of Contacts	Dim. (mm) A	L	Digi-Key Part No.	Price Each 1	10	25	50	100	Tape and Reel Pricing 2,000◊	Hirose Part No.
1	12	8	14.8	H11399-ND	4.38	3.63	—	3.02	2.72	—	LX40-12P
	16	8	16.8	H11400-ND	4.81	3.99	—	3.32	2.99	—	LX40-16
	20	8.4	18.8	H11401-ND	5.25	4.35	—	3.62	3.26	—	LX40-20P
2	12	6.5	10.6	H11402CT-ND†	2.57	—	1.98	—	1.58	1007.00/M	LX60-12S
	16	6.5	12.6	H11403CT-ND†	2.70	—	2.08	—	1.66	1058.00/M	LX60-16S
	20	6.5	14.6	H11404CT-ND†	2.86	—	2.20	—	1.76	1122.00/M	LX60-20S

† Cut Tape ◊ For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1 — Plug

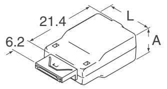

Fig. 2 — Receptacle

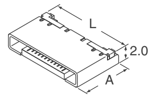

MQ212 Series

Applications: • Mobile phone • PDA • MP3 Player • Portable Audio Equipment and others

Features: • Conforms to EIAJ RC-5240 mobile phone rectangular connector • 5.6mm of depth helps reduction of PCB mounting area • Integral molding structure of receptacle prevents the damage from wrenching and scooping

Specifications: • Rated Current: 0.3A • Contact mating area: Gold • Number of positions: 10 • Contact spacing: 0.5mm • Operating Temperature: -40°C ~ 85°C • PCB Mount Type: SMT • Termination style: Soldering

Fig. 1

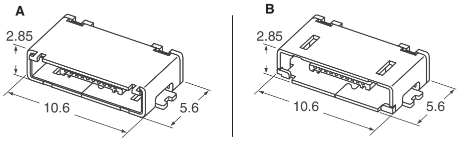

Bottom Mount Style

Top Mount Style

Fig. 2

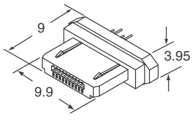

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	25	50	100	Digi-Key Part No.	Tape and Reel Pricing 1,500	Hirose Part No.
1A	Receptacle, Right Angle SMT with Positioning Post	H11456CT-ND	1.52	—	1.10	—	.90	H11456TR-ND	532.00/M	MQ212-10PRT
	Receptacle, Right Angle Through Hole Shell	H11460CT-ND	1.52	—	1.10	—	.90	H11460TR-ND	532.00/M	MQ212B-10PR
1B	Receptacle, R/A Through Hole Shell with Positioning Post	H11455CT-ND	1.52	—	1.10	—	.90	H11455TR-ND	532.00/M	MQ212-10P
	Receptacle, Right Angle SMT with Positioning Post	H11457CT-ND	1.52	—	1.10	—	.90	H11457TR-ND	532.00/M	MQ212-10PT
	Receptacle, Right Angle Through Hole Shell	H11459CT-ND	1.52	—	1.10	—	.90	H11459TR-ND	532.00/M	MQ212B-10P
2	Plug Connector, Right Angle	H11458-ND†	1.52	1.24	—	1.00	.90	—	—	MQ212-10S

† Bulk

3200 Series SMT

Applications: • Portable personal computers • Electronic notebooks • Various OA equipment • Portable mobile communication equipment **Specifications:** • Rated Current: 500mA • Rated Voltage: AC125V • Insulation Voltage: 250MΩ or more at DC100V • Withstanding Voltage: At AC300V rms for 1 minute **Materials:** ***Receptacle:*** • Insulation: Synthetic resin, Black • Contacts: Copper alloy, Selective gold-plated • Shell: Stainless steel, Solder-plated ***Plug:*** • Insulation: Synthetic resin, Black • Contacts: Copper alloy, Selective gold-plated • Shell: Copper alloy, Solder-plated • Cover: Synthetic resin, Black

Fig. 1 — Receptacle

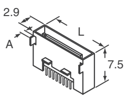

Fig. 2 — Plug

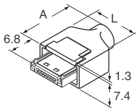

Fig.	No. of Contacts	Dimensions (mm) A	L	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	8	0.5	12.6	H11349-ND◆	3.10	2.57	2.14	3260-8S1(55)
	8	1.0	12.6	H11350-ND◆	4.44	3.68	3.06	3260-8S2(55)
	8	1.5	12.6	H11351-ND◆	3.10	2.57	2.14	3260-8S3(55)
	10	0.5	14.2	H11346-ND◆	4.55	3.77	3.14	3260-10S1(55)
	10	1.0	14.2	H11347-ND◆	4.55	3.77	3.14	3260-10S2(55)
	10	1.5	14.2	H11348-ND◆	3.28	2.72	2.26	3260-10S3(55)
	12	1.5	14.2	H11461-ND◆	3.09	2.57	2.14	3260B-12S3(56)
2	8	18	15.1	H11345-ND◆	4.81	3.99	3.32	3240-8P-C(50)
	10	21	16.7	H11343-ND◆	3.28	2.72	2.26	3240-10P-C(50)
	12	21	16.7	H10005-ND	5.28	4.37	3.64	3240-12P-TO-C
	12	21	16.7	H11344-ND◆	5.51	4.56	3.80	3240-12P-TO-C(50)

◆ ***RoHS Compliant***

(Continued)

3500 Series SMT

Applications: Hand-held terminals, PDA equipment, notebook computers, mobile communications equipment, office automation equipment, measuring instruments.

Specifications: Rated Voltage: 125VAC. Rated Current: 1A. Operating Temperature: -40°C ~ 85°C. Insulation Resistance: 1,000MΩ or greater/ 250VDC. Withstand Voltage: 350VAC for 1 minute. Contact Resistance: 40mΩ or less. Insertion/Removal Life: 20,000 times.

Materials: • *Receptacles:* Insulation: Synthetic resin, Black UL94V-0. Contacts: Copper alloy, Selective gold plating 0.2μm over palladium plating. Shell: Stainless steel, Solder plating. **• *Plug:*** Insulation: Synthetic resin, Black color UL94V-0. Contacts: Copper alloy, Selective gold plating 0.2μm over palladium plating. Shell: Stainless steel. Lock Spring: Stainless steel. Cover: Synthetic resin, Black.

Fig. 1 — Forward Receptacle

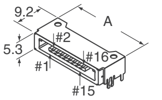

Fig. 2 — Reverse Receptacle

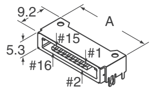

Fig. 3 — SMT Plug

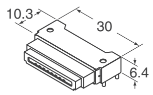

Fig. 4 — Plug

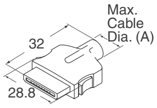

Fig.	No. of Contacts	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	10	20.8	H11354-ND◆	5.92	4.90	4.08	3560-10S(50)
	16	25.6	H11357-ND◆	6.55	5.55	4.67	3560-16S(50)
2	10	20.8	H10016-ND	6.00	4.97	4.14	3560-10SR
	10	20.8	H11355-ND◆	5.92	4.90	4.08	3560-10SR(50)
	16	25.6	H11358-ND◆	6.55	5.55	4.67	3560-16SR(50)
	16	25.6	H11359-ND◆	6.55	5.55	4.67	3560-16SR1(50)
3	16	—	H10017-ND	7.23	6.12	5.15	3560-16P-PG
	16	—	H11356-ND◆	7.18	6.08	5.11	3560-16P-PG(50)
4	10	ø5.3	H11352-ND◆	8.33	7.24	6.52	3540-10P-CV(50)
	16	ø6.2	H11353-ND◆	11.96	11.07	9.93	3540-16P-CV(50)

◆ ***RoHS Compliant***

MQ172 Series Micro-Miniature Interface Connectors for Power Supply/Signaling

Features: Ultra Miniature/Low Profile Design. Dimensions: 3.9mm (H) x 6.4mm (W) x 6mm (D) for the 3 contact type, this series is ideal for today's miniature, lightweight electronic products.

Applications: Portable remote terminals, portable telephones, PHS (personal handy phone system), Notebook PCs, Electronic measuring instruments

Ratings: Rated Current: 3A (4-contact type, rated current is 2A, or 3A for optional 2 terminals and 0.5A for other 2 terminals.) Temperature Range: -30°C ~ 75°C. Rated Volt: DC 30V or less AC 40V or less

Fig. 1

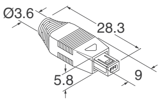

Fig. 2

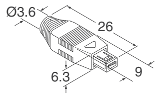

Fig. 3

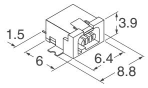

Fig. 4

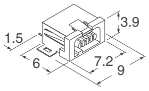

Fig.	No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
1	3	Plug, Unshielded	H10485-ND	2.83	2.35	1.96	1.74	MQ172-3SA-CV(50)
2	4	Plug, Shielded	H10486-ND	2.99	2.48	2.06	1.86	MQ172X-4SA-CV(50)
3	3	Receptacle, Unshielded, Loose	H10487-ND	3.10	2.57	2.14	1.93	MQ172-3PA(55)

Fig.	No. of Contacts	Digi-Key Part No.	Loose Piece Price Each 100	Hirose Part No.	Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Hirose Part No.
Shielded — Receptacle											
4	4	H10488-ND	2.09	MQ172X-4PA(55)	H10488CT-ND	2.88	2.40	2.16	H10488TR-ND	1560.00	MQ172X-4PA(66)

RP34 Series Compact Plastic Connector for AC Adapter

A compact, lightweight, 3-pole plastic connector specially designed for the AC adapter interface for notebook type personal computers. Plug is available in either straight type or right-angle type. Receptacle is very compact with a 10mm square mating surface and 11.3mm depth. **Features:** • Snap-lock locking and D-shaped mating section for easy insertion and disconnection • One of the three poles is designed for grounding terminal • Snap-fit assembling method for plug eliminates use of screws • External appearance is simplified cubical shape and fits well to any equipment. **Materials:** • Main Frame and Insulator: Polycarbonate resin containing glass, and PBT resin UL94V-0, black • Male Terminal: Brass with silver plating • Female Terminal: Phosphor bronze with silver plating

Straight Plug

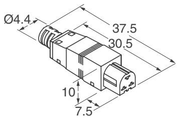

Right Angle Plug

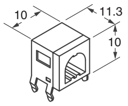

Receptacle

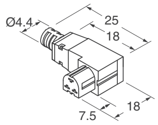

No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
3	Plug with Socket, Straight	HR1286-ND†	4.35	3.60	2.70	RP34-8SP-3SC(71)
4		HR1287-ND†	2.83	2.35	1.74	RP34-8SP-4SC(71)
3	Plug with Socket, Right Angle	HR1285-ND†	4.35	3.60	2.70	RP34-8P-3SC(71)
3	Receptacle with Pin, PC Mount	HR173-ND	2.08	1.73	1.28	RP34-8R-3PDL
4		HR174-ND	2.31	1.92	1.42	RP34-8R-4PDL
—	Conn. Term Female, 18-22AWG, Tin	HR175-ND	.68	.56	.41	RP34-SC-112
—	Hand Crimp Tool for RP34 Contact	H9956-ND	1158.30	—	—	RP34-1/CR-HT
—	Hand Crimp Tool for RP34 Ferrule	H9945-ND	344.47	—	—	RP34-TC-01

† Contact not included and must be ordered separately (Digi-Key Part No. HR175-ND)

RP34L Series Connectors for Low Profile Power Supply

Features: Low profile: These receptacles are designed with their installation heights to be shorter than those of conventional RP34 series, such as 6.1mm (for 2-core type) and 5mm (for 3-core type)

Applications: Notebook PCs, portable remote terminals, AV equipment

Fig. 1

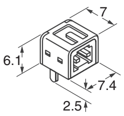

Fig. 2

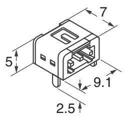

Fig. 3

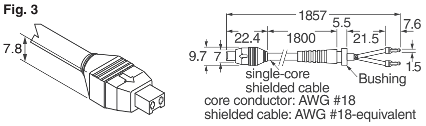

Fig. 4

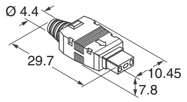

Fig. 5

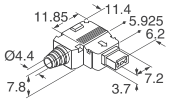

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	2	Receptacle, Dip-Solder Male Terminal	HR1289-ND◆	3.07	2.39	1.91	RP34L-5R-2PD(71)
2	3	Receptacle, Dip-Solder Male Terminal	HR1290-ND◆	3.07	2.39	1.91	RP34L-5R-3PD(71)
3	2	Cable-Integrated Forming Straight Plug to pig-tail	HR1288-ND◆	18.92	17.66	16.40	RP34L-5PA-2SC(1857)(71)
4	3	Straight Plug	HR1292-ND†◆	3.65	2.84	2.27	RP34L-5PA-3SC(71)
5	3	Right Angle Plug	HR1291-ND†◆	3.65	2.84	2.27	RP34L-5LP-3SC(71)
—	—	Crimp Terminal - AWG 18-22	H2353CT-ND§	.40	.24	.19	RP34L-SC1-212(01)
—	—	Crimp Terminal - AWG 18-22	H2353TR-ND‡		816.00/8,000		RP34L-SC1-212(01)
—	—	Hand Crimp Tool	H9946-ND	1264.90	—	—	HT-102/RP34L-SC1-212

† Order Crimp terminals separately § Cut Tape ‡ Tape and Reel ◆ ***RoHS Compliant***

HIROSE ELECTRIC CO.,LTD.

Connectors – QR/P Series

Features: • The selective plating unisex contact is used for both plug and receptacle housings. • Two pairs of contacts at both ends are sequenced for power circuits. They are longer than the others. The molding material is UL94V-0 glass-reinforced polyester. • The guide pin is made of steel nickel plated to be strong enough against accidental coupling shock. • The connectors have passed UL, CSA and TUV standards.
Applications: • PPC, Data Communications, Vending machines, Instrument, Automatic equipment, etc. **Specifications: • Operating Temperature Range:** -10°C ~ 60°C **• Contact Resistance:** 10mΩ or less at DC1A **• Insulation Resistance:** 5000MΩ or less at DC 500V **• Withstand Voltage** (1 minute): *Power:* AC 3000V; *Signal*: AC 1000V **• Current Rating:** *Power*: 13A maximum (AWG #14 use) *Signal*: 7A maximum (AWG #14 use) **• Voltage Rating:** *Power*: AC600V *Signal*: AC250V **Material:** • Insulator: PBT (UL94V-0), blue • Contact: Phosphor bronze, selective gold over nickel plating

Fig. 1 — Receptacle Housing

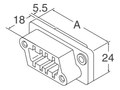

Fig. 2 — Plug Housing

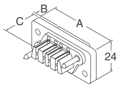

Fig.	No. of Circuits	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	16	70	—	—	H3243-ND	6.41	5.31	4.42	QR/P-16S-C(01)
RoHS Compliant									
1	4	41	—	—	H10144-ND	5.71	4.73	3.94	QR/P-4S-C(51)
	8	52	—	—	H10140-ND	5.92	4.90	4.08	QR/P-8S-C(51)
	12	61	—	—	H10141-ND	6.35	5.26	4.38	QR/P-12S-C(51)
	16	70	—	—	H10142-ND	7.22	5.98	4.98	QR/P-16S-C(51)
	24	86.5	—	—	H10143-ND	7.41	6.27	5.28	QR/P-24S-C(51)
2	4	41	5	18.5	H3246-ND	5.31	4.40	3.66	QR/P-4P-C(01)
	8	52	5	18.5	H3248-ND	5.51	4.56	3.80	QR/P-8P-C(01)
	12	61	5	18.5	H3240-ND	5.92	4.90	4.08	QR/P-12P-C(01)
	16	70	5	18.5	H3242-ND	6.76	5.60	4.66	QR/P-16P-C(01)
	24	86.5	5.5	18	H3244-ND	7.23	6.12	5.15	QR/P-24P-C(01)

AWG	Digi-Key Part No.	*Loose Piece* Pricing 1	10	Hirose Part No.	*Cut Tape** Pricing 10	50	*Tape & Reel* † Qty.	Pricing	Hirose Part No.
Unisex Crimp Contacts — RoHS Compliant									
14 ~ 16	H3250-ND	1.33	10.82	QR/P-XC-111(12)	10.94	44.13	3,500	330.00/M	QR/P-XC-211(12)
18 ~ 24	H3251-ND	1.33	10.82	QR/P-XC-121(12)	10.94	44.13	5,000	324.00/M	QR/P-XC-221(12)

* For Cut Tape, add CT to the Digi-Key Part No. (H3250CT-ND)
† For Tape and Reel, add TR to the Digi-Key Part No. (H3250TR-ND)

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Tools			
Hand Crimp Tool, 14-16AWG	H9913-ND	741.00	TC-2100-111
Hand Crimp Tool, 18-24AWG	H9914-ND	741.00	TC-2100-121
Extraction Tool	H9915-ND	12.42	TC-2100-21

Connectors – QR/P1 Series

QR/P1 series connectors are small and compact high density versions of original OR/P series. Available in 8, 12, 16, 24 and 32 way. Crimps terminals assure positive and reliable termination with minimum labor. **Features:** • The coupling mechanism assures stable and reliable contact pressure through point and blade contact, in addition to smooth coupling that is sufficiently capable of dealing with variations in the coupling length specific to the plug-in connection • One opposed pair (in 12 contacts), 2 pairs (in 8, 16, and 24 contacts), and 3 pairs (in 32 contacts) can be used as power supply contacts. They are spaced further apart than the others so as to have enough creeping distance to withstand a high voltage. Fire-retardant insulation materials (UL94-0) are used. • The Guide Pin is made of steel nickel plated to be strong enough against accidental coupling shock. • The mount of a receptacle housing is done through floating bushes. Thus, they may help to give more smooth coupling of connectors by self-adjusting function. **Specifications: • Operating Temperature Range:** -10°C ~ 60°C **• Voltage:** *Power Terminal*: AC 250V; *Signal Terminal:* AC 125V **• Current:** *Power Unit*: 13A maximum (AWG 14 use); *Signal Unit*: 3A **• Withstand Voltage:** *Power Terminal*: AC 1000V; *Signal Terminal*: AC 500V **• Insulation Resistance:** 5000MΩ higher at DC 500V **• Contact Resistance:** *Power Unit*: 10mΩ or less at DC1A; *Signal Unit*: 15mΩ or less at DC1A **• Material:** *Insulator*: Polyethylene terephthalate, black; *Terminal*: Phosphor bronze, selective gold plating with nickel under plating

Fig. 1 — Plug Housing

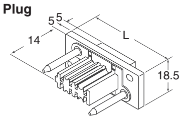

Fig. 2 — Socket Housing

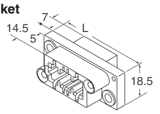

Fig.	No. of Circuits	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
2	24	68.8	H10080-ND	6.87	5.69	4.74	QR/P1-24S-C(01)
RoHS Compliant							
1	8	46.4	H10151-ND	5.28	4.37	3.64	QR/P1-8P-C(51)
	12	51	H10145-ND	5.71	4.73	3.94	QR/P1-12P-C(51)
	16	57.6	H10147-ND	6.18	5.12	4.26	QR/P1-16P-C(51)
	24	68.8	H10149-ND	6.61	5.48	4.56	QR/P1-24P-C(51)
	32	85.5	H10153-ND	8.79	7.44	6.26	QR/P1-32P-C(51)
2	8	46.4	H10152-ND	5.71	4.73	3.94	QR/P1-8S-C(51)
	12	51	H10146-ND	6.41	5.31	4.42	QR/P1-12S-C(51)
	16	57.6	H10148-ND	6.84	5.67	4.72	QR/P1-16S-C(51)
	24	68.8	H10150-ND	7.31	6.05	5.04	QR/P1-24S-C(51)
	32	85.5	H10154-ND	8.51	7.40	6.66	QR/P1-32S-C(51)

Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
Contacts — RoHS Compliant					
14-16AWG, Male	H10086-ND	—	1.05	.85	QR/P1-PC1B-121(12)
14-16AWG, Female	H10090-ND	—	1.01	.82	QR/P1-SC1B-121(12)
18-24AWG, Male	H10085-ND	—	.75	.60	QR/P1-PC1A-111(12)
18-24AWG, Female	H10089-ND	—	.71	.57	QR/P1-SC1A-111(12)
20-24AWG, Male	H10088-ND	—	.75	.60	QR/P1-PC2B-121(12)
20-24AWG, Female	H10092-ND	—	.73	.59	QR/P1-SC2B-121(12)
24-28AWG, Male	H10087-ND	—	.53	.43	QR/P1-PC2A-111(12)
24-28AWG, Female	H10091-ND	—	.52	.42	QR/P1-SC2A-111(12)
Tools					
Hand Crimp Tool for H10086-ND	H10123-ND	741.00	—	—	TC-QR/P1-PC1B
Hand Crimp Tool for H10085-ND	H10122-ND	713.70	—	—	TC-QR/P1-PC1A
Hand Crimp Tool for H10090-ND	H10127-ND	741.00	—	—	TC-QR/P1-SC1B
Hand Crimp Tool for H10089-ND	H10126-ND	713.70	—	—	TC-QR/P1-SC1A
Hand Crimp Tool for H10088-ND	H10125-ND	741.00	—	—	TC-QR/P1-PC2B
Hand Crimp Tool for H10087-ND	H10124-ND	565.25	—	—	TC-QR/P1-PC2A
Hand Crimp Tool for H10092-ND	H10129-ND	741.00	—	—	TC-QR/P1-SC2B
Hand Crimp Tool for H10091-ND	H10128-ND	565.25	—	—	TC-QR/P1-SC2A

Connectors – QR/P4 and P6 Series

RoHS COMPLIANT

QR/P4 series is a series of small connectors for rack and panel application. This is a smaller rectangular size version of the QR/P and QR/P1 series. Available in 8, 12, 16, 24, 32 and 40 contacts. Wires are connected to the connectors without solder for easier connection and higher reliability. QR/P6 series are miniaturized versions of the QR/P and QR/P1 series. Rectangular multi-contact rack and panel connectors for plug-in connection. Available in 6, 12, 16, and 24 contacts for highly efficient and reliable crimp termination. **Features:** • Offers smooth insertion/extraction and stable contact pressure through point-blade contact, and allows for the deviations in contact length specific to plug-in connection • Miniaturized by separating power contacts from signal contacts • Miniaturized using guide pins integral with the insulator • The connectors of the series have passed UL, CSA and TUV standards **Applications:** • PPC • Transmission, automation, reception and data communication equipment • Vending machines • Measuring instruments • Switch boards **QR/P4 Specifications: • Operating Temperature:** -10°C ~ 60°C **• Rated Voltage:** *Power:* AC 300V; *Signal:* AC 250V **• Rated Current:** *Power:* 3A; *Signal:* 1A **• Withstand Voltage:** *Power:* AC 2000V; *Signal:* AC 500V **• Insulation Resistance**: Minimum 5000MΩ at DC 500V **• Contact Resistance**: *Power*: Maximum 15mΩ at DC1A; *Signal:* maximum 15mΩ at DC1A **• Material:** *Insulator:* PBT resin (UL94V-0), Black; *Contact:* Phosphor bronze, Selective gold plated over nickel **QR/P6 Specifications: • Operating Temperature:** -10°C ~ 60°C **• Rated Voltage:** AC 120V **• Rated Current:** *Power Terminal:* 10A; *Signal Terminal:* 1A **• Withstand Voltage** (for 1 minute): *Power Unit:* AC 1000V; *Signal Unit:* AC 500V **• Insulation Resistance:** 5000MΩ or less at DC 500V **• Contact Resistance:** *Power Terminal:* 10mΩ or less at DC1A: *Signal Terminal:* 15mΩ or less at DC1A **• Materials:** *Insulator:* PBT resin (UL94V-0), Black; *Terminal:* Phosphor bronze, selective gold plating with nickel under plating

Fig. 1 - QR/P4 Male Housing use with QR/P1 Male Contacts

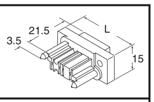

Fig. 2 - QR/P4 Female Housing use with QR/P1 Female Contacts

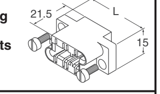

Fig. 3 - QR/P6 Male Housing use with QR/P1 Male Contacts

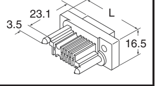

Fig. 4 - QR/P6 Female Housing use with QR/P1 Female Contacts

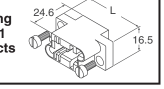

Fig.	No. of Circuits	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
QR/P4 Series							
1	8	34.68	H10103-ND	3.65	3.03	2.52	QR/P4-8P-C(01)
	12	39.8	H10093-ND	4.58	3.80	3.16	QR/P4-12P-C(01)
	16	44.84	H10095-ND	5.48	4.54	3.78	QR/P4-16P-C(01)
	24	55	H10097-ND	5.92	4.90	4.08	QR/P4-24P-C(01)
	32	67.7	H10099-ND	6.41	5.31	4.42	QR/P4-32P-C(01)
	40	77.86	H10101-ND	6.50	5.50	4.63	QR/P4-40P-C(01)
2	8	34.68	H10104-ND	4.12	3.41	2.84	QR/P4-8S-C(01)
	12	39.8	H10094-ND	4.79	3.96	3.30	QR/P4-12S-C(01)
	16	44.84	H10096-ND	6.41	5.31	4.42	QR/P4-16S-C(01)
	24	55	H10098-ND	6.84	5.67	4.72	QR/P4-24S-C(01)
	32	67.7	H10100-ND	6.55	5.55	4.67	QR/P4-32S-C(01)
	40	77.86	H10102-ND	7.36	6.23	5.24	QR/P4-40S-C(01)
QR/P6 Series							
3	6	32.67	H10111-ND	2.99	2.48	2.06	QR/P6-6P-C(01)
	12	41.47	H10105-ND	3.28	2.72	2.26	QR/P6-12P-C(01)
	16	46.55	H10107-ND	3.35	2.79	2.32	QR/P6-16P-C(01)
	24	56.71	H10109-ND	3.65	3.03	2.52	QR/P6-24P-C(01)
4	6	32.67	H10112-ND	3.65	3.03	2.52	QR/P6-6S-C(01)
	12	41.47	H10106-ND	3.89	3.22	2.68	QR/P6-12S-C(01)
	16	46.55	H10108-ND	5.02	4.16	3.46	QR/P6-16S-C(01)
	24	56.71	H10110-ND	4.58	3.80	3.16	QR/P6-24S-C(01)
Tools							
Extraction Tool for QR/P4 Series			H10130-ND	10.26	—	—	TC-QR/P4-21
Extraction Tool for QR/P6 Series			H10299-ND	36.26	—	—	TC-QR/P6-21

Connectors – QR/P8 Series

RoHS COMPLIANT

QR/P8 series is a series of small connectors for rack and panel application. This is a smaller rectangular size version of the QR/P and QR/P1 series. Electrodes available are 8, 12 and 20. Wires are connected to the connectors without solder for easier connection and higher reliability. **Features:** • The connector of this series is about 20% smaller in length than that of the QR/P4 series with the same number of electrodes • Wires of AWG 20-28 can be connected with the two pairs of terminals on the two sides, while wires of AWG 24-28 can be connected with the terminals for signals • The pins give stable contact pressure because of their point contact with the receptacle blades, and have a larger allowance for the variation of connection length • The connectors have passed UL, CSA and TUV standards **Applications:** • PPC • Transmission, automation, reception and data communication equipment • Vending machines • Measuring instruments • Switchboards **Specifications: • Operating Temp.:** -10°C ~ 60°C **• Withstand Voltage** (for 1 minute): *Power Supply*: AC 2000V; *Signal Unit*: AC 500V **• Insulation Resistance:** 1000MΩ or less at DC 500V **• Contact Resistance:** 30mΩ or less at DC1A **• Material:** *Insulator:* Polycarbonate resin UL94V-0, Black; *Contact:* Phosphor bronze, selective gold plated over nickel

Fig. 1 - Male Housing

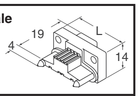

Fig. 2 - Female Housing

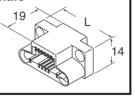

Fig.	No. of Circuits	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	8	27	H10116-ND	3.09	2.57	2.14	QR/P8-8P-C(01)
	12	31	H10002-ND	3.16	2.62	2.18	QR/P8-12P-C(01)
	20	39	H10114-ND	3.74	3.10	2.58	QR/P8-20P-C(01)
2	8	27	H10117-ND	3.19	2.64	2.20	QR/P8-8S-C(01)
	12	31	H10113-ND	3.63	3.00	2.50	QR/P8-12S-C(01)
	20	39	H10115-ND	4.21	3.48	2.90	QR/P8-20S-C(01)
Contacts							
20-24AWG, Male			H10118-ND	—	.35	.27	QR/P8-PC-111
20-24AWG, Female			H10119-ND	—	.35	.27	QR/P8-SC-111
24-28AWG, Male			H10003-ND	—	.35	.27	QR/P8-PC-121
24-28AWG, Female			H10120-ND	—	.35	.27	QR/P8-SC-121
Tools							
Hand Crimp Tool, 20-24AWG			HR1170-ND	741.00	—	—	TC-QR/P8-111
Hand Crimp Tool, 24-28AWG			HR1171-ND	741.00	—	—	TC-QR/P8-121
Extraction Tool			HR1172-ND	10.36	—	—	TC-QR/P8-21

Tyco Electronics AMP
Authorized Distributor

VAL-U-LOK Connectors

RoHS COMPLIANT

Description: • Low cost, wire-to-wire and wire-to-board connectors with 4.2mm x 4.2mm centerline
Features: • Easy mate and unmate with positive latch design • UL 94V-2 • Products are lead free • Intermateable and interchangeable with Molex Mini-Fit, Jr. and intermateable AMP-DUAC connectors
Ratings: • **Voltage Rating:** 600VAC • **Current Rating:** 9 Amps Max. in 2-position applications • **Dielectric Withstanding Voltage:** 1500VAC minimum • Component recognized by UL and Certified by CSA • UL File No. E28476 and CSA File No. 208567

Fig. 1

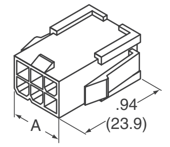

Fig. 2

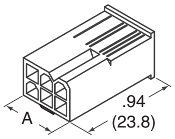

Fig. 3

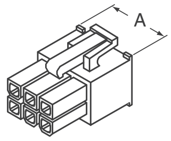

Fig. 4

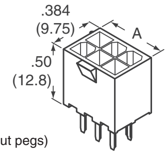

(shown without pegs)

Fig. 5

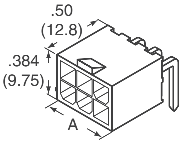

Fig. 6

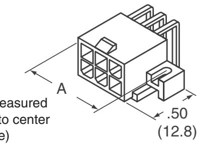

(Dim. A is measured from center to center of screw hole)

Fig.	No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Pricing			AMP Part No.
				1	100	500	
Housing							
Plugs - Panel Mount							
1	2	.21 (5.4)	A30578-ND	.27	10.37	45.74	794953-2
	4	.38 (9.6)	A30579-ND	.29	11.40	50.30	794953-4
	6	.54 (13.8)	A30580-ND	.28	12.54	55.34	794953-6
	8	.71 (18.0)	A30581-ND	.28	13.80	60.87	794953-8
	10	.87 (22.2)	A30582-ND	.29	15.18	66.97	1-794953-0
	12	1.04 (26.4)	A30583-ND	.29	16.70	73.66	1-794953-2
	14	1.21 (30.6)	A30584-ND	.29	18.37	81.02	1-794953-4
	16	1.37 (34.8)	A30585-ND	.31	20.20	89.12	1-794953-6
	18	1.54 (39.0)	A30586-ND	.35	22.22	98.04	1-794953-8
	20	1.70 (43.2)	A30587-ND	.38	24.44	107.83	2-794953-0
	22	1.87 (47.4)	A30588-ND	.44	28.53	125.88	2-794953-2
	24	2.03 (51.6)	A30589-ND	.49	31.39	138.48	2-794953-4
Plugs - Free Hanging							
2	2	.21 (5.4)	A30654-ND	.27	10.37	45.74	1586000-2
	4	.38 (9.6)	A30655-ND	.29	11.40	50.30	1586000-4
	6	.54 (13.8)	A30656-ND	.28	12.54	55.34	1586000-6
	8	.71 (18.0)	A30657-ND	.28	13.80	60.87	1586000-8
	10	.87 (22.2)	A30658-ND	.29	15.18	66.97	1-1586000-0
	12	1.04 (26.4)	A30659-ND	.29	16.70	73.66	1-1586000-2
	14	1.21 (30.6)	A30660-ND	.29	18.37	81.02	1-1586000-4
	16	1.37 (34.8)	A30661-ND	.31	20.20	89.12	1-1586000-6
	18	1.54 (39.0)	A30662-ND	.35	22.22	98.04	1-1586000-8
	20	1.70 (43.2)	A30663-ND	.38	24.44	107.83	2-1586000-0
	22	1.87 (47.4)	A30664-ND	.44	28.53	125.88	2-1586000-2
	24	2.03 (51.6)	A30665-ND	.49	31.39	138.48	2-1586000-4
Receptacles - Free Hanging							
3	2	.23 (5.8)	A30590-ND	.27	10.37	45.74	794954-2
	4	.39 (10.0)	A30591-ND	.29	11.40	50.30	794954-4
	6	.56 (14.2)	A30592-ND	.22	9.98	44.05	794954-6
	8	.72 (18.4)	A30593-ND	.28	13.80	60.87	794954-8
	10	.89 (22.6)	A30594-ND	.29	15.18	66.97	1-794954-0
	12	1.06 (26.8)	A30595-ND	.29	16.70	73.66	1-794954-2
	14	1.22 (31.0)	A30596-ND	.29	18.37	81.02	1-794954-4
	16	1.39 (35.2)	A30597-ND	.31	20.20	89.12	1-794954-6
	18	1.55 (39.4)	A30598-ND	.35	22.22	98.04	1-794954-8
	20	1.72 (43.6)	A30599-ND	.38	24.44	107.83	2-794954-0
	22	1.88 (47.8)	A30600-ND	.42	26.89	118.62	2-794954-2
	24	2.05 (52.0)	A30601-ND	.46	29.57	130.48	2-794954-4
Pin Header							
Vertical With Pegs							
4	2	.21 (5.4)	A30668-ND	.55	45.84	183.37	1586039-2
	4	.38 (9.6)	A30669-ND	.59	48.76	195.03	1586039-4
	6	.54 (13.8)	A30670-ND	.61	50.57	202.29	1586039-6
	8	.71 (18.0)	A30671-ND	.81	67.09	268.37	1586039-8
	10	.87 (22.2)	A30672-ND	.89	74.41	297.63	1-1586039-0
	12	1.04 (26.4)	A30673-ND	1.17	97.59	390.34	1-1586039-2
	14	1.21 (30.6)	A30674-ND	1.26	104.90	419.60	1-1586039-4
	16	1.37 (34.8)	A30675-ND	1.35	112.22	448.88	1-1586039-6
	18	1.54 (39.0)	A30676-ND	1.42	118.33	473.30	1-1586039-8
	20	1.70 (43.2)	A30677-ND	1.58	131.74	526.95	2-1586039-0
	22	1.87 (47.4)	A30678-ND	1.67	139.06	556.22	2-1586039-2
	24	2.03 (51.6)	A30679-ND	1.77	147.59	590.37	2-1586039-4
Vertical Without Pegs							
4	2	.21 (5.4)	A30602-ND	.60	49.92	199.68	1586037-2
	4	.38 (9.6)	A30603-ND	.72	60.36	241.43	1586037-4
	6	.54 (13.8)	A30604-ND	.76	63.06	252.22	1586037-6
	8	.71 (18.0)	A30605-ND	.92	76.67	306.69	1586037-8
	10	.87 (22.2)	A30606-ND	1.02	85.04	340.14	1-1586037-0
4	12	1.04 (26.4)	A30607-ND	1.34	111.53	446.10	1-1586037-2
	14	1.21 (30.6)	A30608-ND	1.44	119.89	479.55	1-1586037-4
	16	1.37 (34.8)	A30609-ND	1.54	128.25	513.00	1-1586037-6
	18	1.54 (39.0)	A30610-ND	1.62	135.22	540.88	1-1586037-8
	20	1.70 (43.2)	A30611-ND	1.81	150.56	602.23	2-1586037-0
	22	1.87 (47.4)	A30612-ND	1.91	158.92	635.69	2-1586037-2
	24	2.03 (51.6)	A30613-ND	2.02	168.68	674.71	2-1586037-4
Right Angle Without Pegs							
5	2	.21 (5.4)	A30614-ND	.88	73.19	292.76	1586041-2
	4	.38 (9.6)	A30615-ND	.97	80.50	322.01	1586041-4
	6	.54 (13.8)	A30616-ND	1.07	89.04	356.17	1586041-6
	8	.71 (18.0)	A30617-ND	1.17	97.59	390.34	1586041-8
	10	.87 (22.2)	A30618-ND	1.26	104.90	419.60	1-1586041-0
	12	1.04 (26.4)	A30619-ND	1.57	130.52	522.08	1-1586041-2
	14	1.21 (30.6)	A30620-ND	1.67	139.06	556.22	1-1586041-4
	16	1.37 (34.8)	A30621-ND	1.77	147.59	590.37	1-1586041-6
	18	1.54 (39.0)	A30622-ND	1.75	145.98	583.91	1-1586041-8
	20	1.70 (43.2)	A30623-ND	2.03	169.55	678.19	2-1586041-0
	22	1.87 (47.4)	A30624-ND	2.14	178.09	712.35	2-1586041-2
	24	2.03 (51.6)	A30625-ND	2.25	187.84	751.37	2-1586041-4
Right Angle With Flange							
6	2	.35 (9.0)	A30626-ND	.87	72.39	289.54	1586043-2
	4	.52 (13.2)	A30627-ND	.83	69.03	276.11	1586043-4
	6	.69 (17.4)	A30628-ND	.90	74.85	299.41	1586043-6
	8	.85 (21.6)	A30629-ND	1.42	118.50	473.98	1586043-8
	10	1.02 (25.8)	A30630-ND	1.53	127.38	509.52	1-1586043-0
	12	1.18 (30.0)	A30631-ND	1.90	158.48	633.93	1-1586043-2
	14	1.35 (34.2)	A30632-ND	2.03	168.86	675.42	1-1586043-4
	16	1.51 (38.4)	A30633-ND	2.07	172.33	689.30	1-1586043-6
	18	1.68 (42.6)	A30634-ND	2.08	173.64	694.55	1-1586043-8
	20	1.84 (46.8)	A30635-ND	2.09	174.21	696.83	2-1586043-0
	22	2.01 (51.0)	A30636-ND	2.59	216.25	864.99	2-1586043-2
	24	2.17 (55.2)	A30637-ND	2.74	228.10	912.40	2-1586043-4

Wire Size (AWG)	Material and Finish	Digi-Key Part No.	Loose Piece Pricing			AMP Part No.
			1	100	500	
Contacts						
Plug Contacts						
26 - 22	Brass, Pre-Tin	A30646-ND	.28	4.12	18.17	1586316-1
	Phos. Brz., Pre-Tin	A30648-ND	.29	6.26	27.60	1586316-3
	Brass, Gold	A30647-ND	.41	26.31	116.06	1586316-2
	Phos. Brz., Gold	A30649-ND	.44	28.06	123.80	1586316-4
22 - 18	Brass, Pre-Tin	A30650-ND	.28	4.12	18.17	1586314-1
	Phos. Brz., Pre-Tin	A30652-ND	.29	6.26	27.60	1586314-3
	Brass, Gold	A30651-ND	.41	26.31	116.06	1586314-2
	Phos. Brz., Gold	A30653-ND	.44	28.06	123.80	1586314-4
Receptacle Contacts						
26 - 22	Brass, Pre-Tin	A30638-ND	.28	4.12	18.17	1586317-1
	Phos. Brz., Pre-Tin	A30640-ND	.29	6.26	27.60	1586317-3
	Brass, Gold	A30639-ND	.63	40.69	179.52	1586317-2
	Phos. Brz., Gold	A30641-ND	.71	45.58	201.10	1586317-4
22 - 18	Brass, Pre-Tin	A30642-ND	.28	4.12	18.17	1586315-1
	Phos. Brz., Pre-Tin	A30644-ND	.29	6.26	27.60	1586315-3
	Brass, Gold	A30643-ND	.63	40.69	179.52	1586315-2
	Phos. Brz., Gold	A30645-ND	.71	45.58	201.10	1586315-4
Tools						
Tool Crimp, 4.2 mm PE, 22-26AWG		A30666-ND		780.00/1		91387-1
Tool Crimp, 4.2 mm PE, 18-22AWG		A30667-ND		489.35/1		91388-1

Metrimate Pin and Socket Connectors

Product Facts: • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 • Tested to VDE requirements outlined in VDE Test Report No. 4751-1431-1029/A1I 3544 • Designed to meet IEC (440 V) requirements • Polarized housings • Housings made of UL rated 94V-0 thermoplastic

Fig. 1

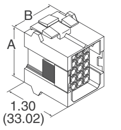

Fig. 2

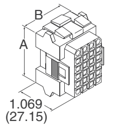

Fig. 3

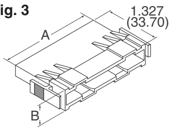

Fig. 4

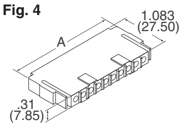

Fig. 5

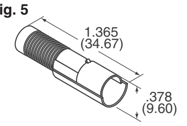

Fig. 6

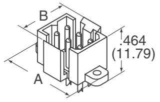

Fig. 7

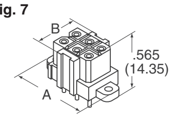

Fig. 8

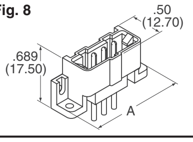

Fig. 9

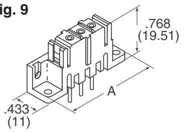

Fig.	No. of Positions	Type	Dimensions Inch (mm)		Digi-Key Part No.	Price Each		AMP Part No.
			A	B		1	100	
Square Grid Housings — RoHS Compliant								
1	4	Receptacle (Use Pin Contacts)	.829 (21.06)	.703 (17.86)	A29192-ND	1.14	.74	207016-1
	6		1.024 (26.01)	.703 (17.86)	A29198-ND	1.30	.84	207153-1
	9		.976 (24.79)	.937 (23.80)	A29200-ND	1.67	1.08	207440-1
	12		1.173 (29.79)	.937 (23.80)	A29194-ND	2.09	1.35	207018-1

(Continued)

Fig.	No. of Positions	Type	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	100	AMP Part No.
1	18	Receptacle (Use Pin Contacts)	1.592 (40.44)	.937 (23.80)	A29202-ND	2.41	1.55	207443-1
	24		1.592 (40.44)	1.096 (27.84)	A29204-ND	2.78	1.79	207305-1
	36		2.183 (55.45)	1.096 (27.84)	A29196-ND	3.71	2.38	207020-1
2	4	Plug (Use Socket Contacts)	.829 (21.06)	.703 (17.86)	A29191-ND	1.06	.68	207015-1
	6		1.024 (26.01)	.703 (17.86)	A29197-ND	1.19	.77	207152-1
	9		.981 (24.92)	.937 (23.80)	A29199-ND	1.59	1.02	207439-1
	12		1.173 (29.79)	.937 (23.80)	A29193-ND	2.09	1.35	207017-1
	18		1.592 (40.44)	.937 (23.80)	A29201-ND	2.41	1.55	207442-1
	24		1.592 (40.44)	1.096 (27.84)	A29203-ND	2.76	1.77	207304-1
	36		2.183 (55.45)	1.096 (27.84)	A29195-ND	3.31	2.13	207019-1
In-Line Housings — RoHS Compliant								
3	3	Receptacle (Use Pin Contacts)	1.033 (26.25)	.485 (12.32)	A29206-ND	1.17	.75	207359-1
	6		1.625 (41.30)	.485 (12.32)	A29208-ND	1.51	.97	207376-1
	10		2.413 (61.30)	.485 (12.32)	A29190-ND	3.87	2.49	207397-1
	16		3.413 (86.70)	.459 (11.65)	A29211-ND	2.89	1.86	207543-1
4	3	Plug (Use Socket Contacts)	.933 (23.70)	—	A29207-ND	1.19	.77	207360-1
	6		1.524 (38.70)	—	A29209-ND	1.80	1.16	207377-1
	10		2.311 (58.70)	—	A29210-ND	1.93	1.25	207396-1
	16		3.535 (89.79)	—	A29212-ND	2.25	1.45	207542-1
Hermaphroditic Housing (Uses both Pin and Socket Contacts) — RoHS Compliant								
5	1	—	—	—	A29205-ND	1.30	.84	211076-1

Fig.	No. of Positions	Plating	Type	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Square Grid Vertical Headers									
6	4	Tin	Pin	.890 (22.61)	.500 (12.70)	A30061-ND	6.00	4.30	207119-1
		Tin				A33283-ND◆	5.61	4.03	207119-8
		Gold				A30062-ND	8.52	6.11	207119-3
		Gold				A33284-ND◆	7.98	5.72	1-207119-0
	6	Tin	Pin	1.090 (27.69)	.500 (12.70)	A32543-ND◆	4.95	3.55	207158-7
		Gold				A30064-ND	7.32	5.25	207158-3
		Gold				A33285-ND◆	6.84	4.91	1-207158-0
	9	Tin	Pin	1.090 (27.69)	.737 (18.72)	A30065-ND	10.05	7.21	207441-1
		Tin				A33286-ND◆	6.90	4.95	207441-7
		Gold				A30066-ND	11.19	8.02	207441-3
		Gold				A33287-ND◆	10.50	7.53	1-207441-0
	12	Tin	Pin	1.280 (32.51)	.737 (18.72)	A30067-ND	12.00	8.60	207120-1
		Tin				A33288-ND◆	8.16	5.85	207120-9
		Gold				A30068-ND	12.51	8.97	207120-3
		Gold				A33289-ND◆	11.70	8.39	207120-8
	18	Gold	Pin	1.863 (47.32)	.737 (18.72)	A30070-ND	21.09	15.12	207444-3
		Gold				A33291-ND◆	19.77	14.17	207444-8
	24	Tin	Pin	1.863 (47.32)	.941 (23.90)	A30071-ND	16.02	11.49	206763-1
		Tin				A33292-ND◆	15.03	10.78	1-206763-1
		Gold				A30072-ND	32.52	23.31	206763-3
		Gold				A33293-ND◆	21.93	15.72	1-206763-3
	36	Tin	Pin	2.453 (62.31)	.941 (23.90)	A30073-ND	23.79	17.05	207121-1
		Gold				A30074-ND	47.97	34.38	207121-3
		Gold				A33295-ND◆	32.70	23.44	207121-9
7	4	Tin	Socket	.890 (22.61)	.610 (15.49)	A30075-ND	7.29	5.90	207496-1
		Tin				A33296-ND◆	6.80	5.51	207496-7
7	4	Gold	Socket	.890 (22.61)	.610 (15.49)	A30076-ND	12.03	6.59	207496-3
		Gold				A33297-ND◆	11.26	6.17	207496-9
	6	Tin	Socket	1.090 (27.69)	.610 (15.49)	A30077-ND	4.66	3.78	207524-1
		Tin				A33298-ND◆	4.39	3.56	207524-7
		Gold				A30078-ND	7.16	3.92	207524-3
		Gold				A33299-ND◆	6.70	3.67	207524-9
	9	Tin	Socket	1.090 (27.69)	.840 (21.34)	A30079-ND	5.65	4.58	207526-1
		Tin				A33300-ND◆	5.29	4.29	207526-7
		Gold				A30080-ND	15.82	8.66	207526-3
		Gold				A33301-ND◆	14.84	8.12	207526-9
	12	Tin	Socket	1.280 (32.51)	.840 (21.34)	A30081-ND	6.47	5.24	207528-1
		Tin				A33302-ND◆	6.03	4.88	207528-7
		Gold				A30082-ND	11.85	6.49	207528-3
		Gold				A33303-ND◆	11.08	6.07	207528-9
	18	Tin	Socket	1.863 (47.32)	.840 (21.34)	A30083-ND	9.41	7.62	207530-1
		Tin				A33304-ND◆	8.80	7.13	207530-7
		Gold				A30084-ND	21.07	11.53	207530-3
		Gold				A33305-ND◆	19.74	10.81	207530-9
	24	Tin	Socket	1.863 (47.32)	1.006 (25.55)	A30085-ND	11.95	9.68	207532-1
		Tin				A33306-ND◆	11.19	9.07	207532-8
		Gold				A30086-ND	22.53	12.33	207532-3
	36	Tin	Socket	2.453 (62.31)	1.006 (25.55)	A30087-ND	24.07	19.49	207534-1
		Tin				A33308-ND◆	16.53	13.38	207534-8
		Gold				A30088-ND	33.44	18.30	207534-3
		Gold				A33309-ND◆	31.32	17.14	1-207534-0
In-Line Vertical Headers									
8	3	Tin	Pin	1.451 (36.86)	—	A30089-ND	5.04	3.62	207365-1
		Tin				A33310-ND◆	4.71	3.38	207365-7
		Gold				A30090-ND	6.21	4.46	207365-3
		Gold				A33311-ND◆	5.82	4.18	207365-8
	6	Tin	Pin	2.042 (51.87)	—	A30091-ND	6.63	4.76	207583-1
		Gold				A30092-ND	8.70	6.24	207583-3
		Gold				A33313-ND◆	8.16	5.85	207583-7
	10	Tin	Pin	2.829 (71.86)	—	A30093-ND	9.57	6.86	207584-1
		Gold				A30094-ND	12.75	9.14	207584-3
		Gold				A33315-ND◆	11.97	8.58	207584-8
	16	Tin	Pin	4.041 (102.64)	—	A30095-ND	12.72	9.12	207599-1
		Tin				A33316-ND◆	11.94	8.56	207599-6
		Gold				A30096-ND	17.97	12.88	207599-3
		Gold				A33317-ND◆	16.86	12.09	207599-7
9	3	Tin	Socket	1.439 (36.55)	—	A30097-ND	3.68	2.98	207609-1
		Tin				A33318-ND◆	3.47	2.81	207609-6
		Gold				A30098-ND	5.86	3.21	207609-3
		Gold				A33319-ND◆	5.51	3.02	207609-7
	6	Tin	Socket	2.031 (51.59)	—	A30099-ND	4.94	4.00	207611-1
		Tin				A33320-ND◆	4.62	3.74	207611-6
		Gold				A30100-ND	8.32	4.56	207611-3
	10	Tin	Socket	2.819 (71.60)	—	A30060-ND	8.00	6.48	207613-1
		Tin				A33322-ND◆	7.50	6.07	207613-6
		Gold				A30101-ND	12.24	6.70	207613-3
		Gold				A33323-ND◆	11.47	6.28	207613-7
	16	Tin	Socket	4.007 (101.78)	—	A30102-ND	15.58	12.62	207615-1
		Gold				A30103-ND	18.15	9.94	207615-3
		Gold				A33325-ND◆	17.01	9.31	207615-7

◆ *RoHS Compliant*

Crimp

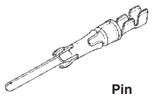

Pin

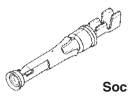

Socket

A Bright tin-lead on entire contact

B Selective gold with 30µ gold on electrical engagement area over 50µ nickel on entire contact

Desc.	Wire Size AWG	Insulation Diameter Inch	Contact Finish	Digi-Key Part No.	Loose Piece Price Each 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Strip Tape and Reel Qty.	Pricing	AMP Part No.
Crimp														
Pin	26-24	.035-.055	A	—	—	—	—	A1324CT-ND	38.52	176.55	—	—	—	66106-6
Pin			A	A31991-ND◆	.45	.32	1-66107-1	A31991CT-ND◆	37.15	170.28	A31991TR-ND◆	4,000	185.76/M	1-66106-5
Socket			A	—	—	—	—	A31992CT-ND◆	58.66	268.85	A31992TR-ND◆	4,000	293.30/M	1-66108-5
Pin			B	A1344-ND◆	.88	.61	66107-4	A1344CT-ND◆	61.13	280.17	A1344TR-ND◆	4,000	305.64/M	66106-8
Socket			B	A1345-ND◆	1.05	.73	66109-4	A1345CT-ND◆	75.97	348.21	A1345TR-ND◆	4,000	379.86/M	66108-8
Pin	24-20	.040-.080	A	A31989-ND◆	.45	.31	1-66103-8	A31989CT-ND◆	37.97	174.02	A31989TR-ND◆	4,000	189.84/M	2-66102-5
Socket			A	A31990-ND◆	.53	.37	1-66105-9	A31990CT-ND◆	46.22	211.82	A31990TR-ND◆	4,000	231.08/M	3-66104-0
Pin			B	A1342-ND◆	.92	.64	66103-4	A1342CT-ND◆	59.95	274.77	A1342TR-ND◆	4,000	299.75/M	66102-9
Socket			B	A1343-ND◆	1.10	.77	66105-4	A1343CT-ND◆	72.02	330.11	A1343TR-ND◆	4,000	360.12/M	66104-9
Pin	18-16	.080-.100	A	A31987-ND◆	.45	.31	1-66099-5	A31987CT-ND◆	37.97	174.02	A31987TR-ND◆	4,000	189.84/M	1-66098-8
Socket			A	A31988-ND◆	.53	.37	1-66101-9	A31988CT-ND◆	40.53	185.75	A31988TR-ND◆	4,000	202.64/M	1-66100-9
Pin			B	A1340-ND◆	.92	.64	66099-4	A1340CT-ND◆	64.55	295.87	A1340TR-ND◆	4,000	322.77/M	66098-9
Socket			B	A16080-ND◆	1.10	.77	66101-4	A16080CT-ND◆	71.45	327.48	A16080TR-ND◆	4,000	357.26/M	66100-9

Tools

Contact Extraction Tool	A1329-ND	12.60/1	305183
PRO-CRIMPER Tool with Die Set	A9920-ND	145.50/1	58495-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	48.00/1	679221-1
Certi-Crimp Tool, 26-24 AWG	A9951-ND	519.12/1	91515-1
Certi-Crimp Tool, 24-20 AWG	A9839-ND	519.12/1	91523-1
Crimp Tool, Ratcheting, 18-16 AWG	A9841-ND	468.14/1	91505-1

◆ *RoHS Compliant*

Commercial MATE-N-LOK® Connectors

Fig. 1

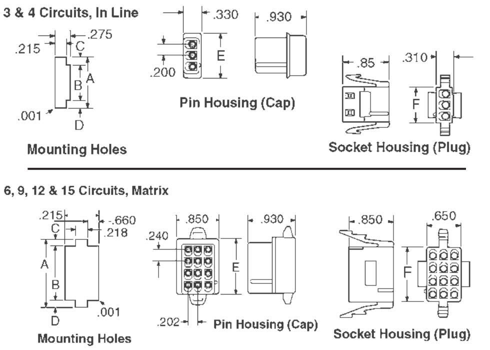

Fig. 2

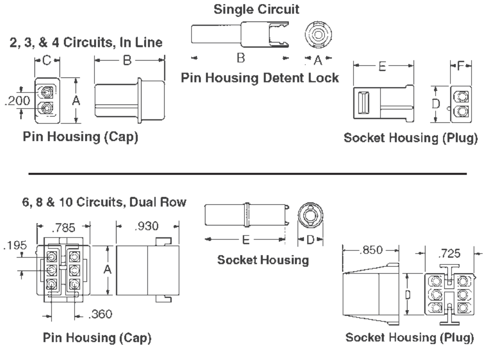

Fig. 3

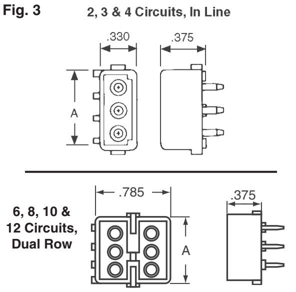

Mate with Free Hanging Socket Connectors
Housing Material: Natural nylon **Pin Material:** Copper alloy. ***Note:*** *Use standard pin for .062" (1.57 mm) thick PC board. Use long tail for .125" (3.18 mm) thick PC board.*

Fig. 4

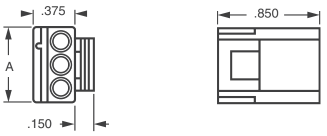

Fig. 5

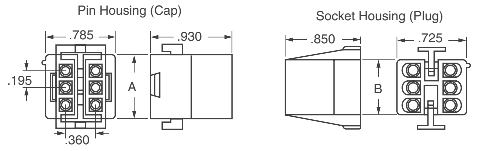

Fig. 6

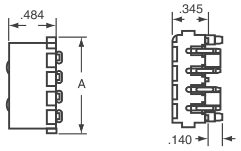

Fig. 7
Mating parts include socket housings, a vertical PC Board socket header and the insulation displacement connectors (IDC) **Specifications:** • Pre-Tin Solder Tail: width .052" (1.32mm) • Housing Material: Nylon, black • Flammability Rating: UL94V-2 • Contact: Phosphor bronze • Pin Material: Copper alloy **Recommended PC Board Layout: .061" (1.57mm) thick PC Board.**

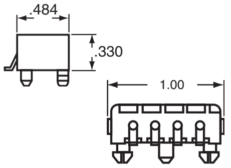

Fig. 8

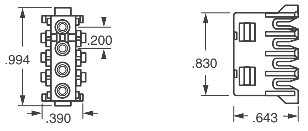

Fig. 9

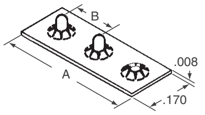

No. of Cir.	Description	Dimensions – Inch						Digi-Key Part No.	Pricing		AMP Part No.
		A	B	C	D	E	F		1	100	
Fig.1 – Panel-Mount Rectangular Connectors (Contacts Sold Separately) RoHS Compliant											
3	Pin Housing	.890	.645	.123	.123	.810	—	A1400-ND	.31	19.85	1-480305-0
	Socket Housing	.890	.645	.123	.123	—	.630	A1401-ND	.36	23.05	1-480304-0
4	Pin Housing	1.090	.845	.123	.123	1.010	—	A1402-ND	.38	24.11	1-480426-0
	Socket Housing	1.090	.845	.123	.123	—	.830	A1403-ND	.80	51.38	1-480425-0
6	Pin Housing	.850	.575	.138	.138	.655	—	A1404-ND	.62	39.80	1-480276-0
	Socket Housing	.850	.575	.138	.138	—	.565	A1405-ND	1.02	65.15	1-480273-0
9	Pin Housing	1.085	.815	.135	.135	.905	—	A1406-ND	1.08	69.14	1-480277-0
	Socket Housing	1.085	.815	.135	.135	—	.805	A1407-ND	1.21	77.53	1-480274-0
12	Pin Housing	1.320	1.050	.135	.135	1.145	—	A1424-ND	1.29	82.61	1-480278-0
	Socket Housing	1.320	1.050	.135	.135	—	1.045	A1425-ND	1.39	89.47	1-480275-0
15	Pin Housing	1.555	1.290	.133	.133	1.382	—	A1426-ND	1.82	116.63	1-480324-0
	Socket Housing	1.555	1.290	.133	.133	—	1.280	A1427-ND	2.04	131.16	1-480323-0
Fig. 2 – Free-Hanging Rectangular Connectors (Contacts Sold Separately) RoHS Compliant											
1	Pin Housing Detent Lock	.300	1.200	—	—	—	—	A1204-ND	.31	10.57	1-480350-0
	Pin Housing	.300	1.240	—	—	—	—	A1408-ND	.31	8.71	1-480351-0
	Socket Housing	—	—	—	2.60	.870	—	A1409-ND	.31	8.71	1-480349-0
	Pin Housing Detent Lock	.300	1.325	—	—	—	—	A25388-ND*	.41	26.58	1-480401-0
	Socket Housing	—	—	—	.260	.995		A25389-ND*	.31	11.11	1-480400-0
2	Pin Housing	.610	.930	.330	—	—	—	A1410-ND	.31	11.07	1-480319-0
	Socket Housing	—	—	—	.530	.860	.295	A1411-ND	.31	11.02	1-480318-0
	Pin Housing Detent Lock	.610	.930	.330	—	—	—	A25756-ND*	.76	48.97	1-480498-1
	Socket Housing	—	—	—	.530	.860	.295	A25757-ND*	.74	47.18	1-480393-1
3	Pin Housing	.810	.930	.325	—	—	—	A1400-ND	.31	19.85	1-480305-0
	Socket Housing	—	—	—	.825	.850	.290	A1429-ND	.32	20.84	1-480303-0
	Pin Housing Detent Lock	.810	.930	.325	—	—	—	A25414-ND*	.67	43.04	1-480387-0
	Socket Housing	—	—	—	.825	.850	.290	A25415-ND*	.73	46.79	1-480388-0
4	Pin Housing	1.010	.930	.330	—	—	—	A1402-ND	.38	24.11	1-480426-0
	Socket Housing	—	—	—	1.030	.850	.310	A1431-ND	.32	20.30	1-480424-0
	Pin Housing Detent Lock	1.010	.930	.330	—	—	—	A25416-ND†	1.85	118.36	794132-1
	Socket Housing	—	—	—	1.030	.850	.310	A25417-ND†	.53	34.05	770827-1
6	Pin Housing	.705	—	—	—	—	—	A1412-ND	.90	57.54	1-480340-0
	Socket Housing	—	—	—	.610	—	—	A1413-ND	.63	40.64	1-480270-0
8	Pin Housing	.900	—	—	—	—	—	A1206-ND	.98	63.11	1-480345-0
	Socket Housing	—	—	—	—	.805	—	A1207-ND	.66	42.60	1-480283-0
10	Pin Housing	1.095	—	—	—	—	—	A1414-ND	1.13	72.35	1-480339-0
	Socket Housing	—	—	—	1.00	—	—	A1415-ND	1.27	81.42	1-480285-0

No. of Circuits	Description	Dimension – Inch		Digi-Key Part No.	Pricing		AMP Part No.
		A	B		1	100	
Fig. 3 – Printed Circuit Board Pin Header Assemblies – Mate Socket Housing							
2	Pre-Tin with Detent Lock	.515	—	A1208-ND◆	.62	44.78	350209-1
	Gold with Detent Lock	.515	—	A32180-ND◆	2.11	151.37	1586512-2
	Pre-Tin Positive Lock	.515	—	A14364-ND◆	.82	58.99	350539-1
	Gold Positive Lock	.515	—	A32186-ND◆	2.53	181.20	1586530-2
	Pre-Tin with Positive Lock Long Tail	.515	—	A14366-ND◆	1.78	127.78	350540-1
	Pre-Tin Detent Lock Long Tail	.515	—	A14367-ND◆	1.08	77.69	350422-1
3	Pre-Tin with Detent Lock	.715	—	A1210-ND◆	.99	71.24	350210-1
	Gold with Detent Lock	.715	—	A32181-ND◆	3.22	230.51	1586514-2
	Pre-Tin Positive Lock	.715	—	A14368-ND◆	1.89	135.17	350541-1
	Gold Positive Lock	.715	—	A32187-ND◆	3.63	260.36	1586532-2
	Pre-Tin Detent Lock Long Tail	.715	—	A14370-ND◆	1.42	101.72	350423-1
4	Pre-Tin with Detent Lock	.915	—	A1212-ND◆	.93	66.72	350211-1
	Gold with Detent Lock	.915	—	A32182-ND◆	2.57	184.17	1586515-2
	Pre-Tin Positive Lock	.915	—	A14371-ND◆	1.80	129.18	350543-1
	Gold Positive Lock	.915	—	A32188-ND◆	4.99	357.62	1586534-2
	Pre-Tin Positive Lock Long Tail	.915	—	A14373-ND◆	3.19	228.73	350544-1
	Pre-Tin Detent Lock Long Tail	.915	—	A14374-ND◆	1.66	118.99	350424-1
	Gold Detent Lock Long Tail	.915	—	A32185-ND◆	8.49	608.29	1586525-2
6	Pre-Tin Positive Lock Dual Row	.705	—	A1214-ND◆	1.28	91.47	1-380999-0
	Gold Positive Lock Dual Row	.705	—	A1215-ND A33353-ND◆	5.78 5.41	414.12 387.52	2-380999-0 2-1586546-0
	Pre-Tin Positive Lock Long Tail Dual Row	.705	—	A14376-ND◆	1.99	142.76	350425-1
8	Pre-Tin Positive Lock Dual Row	.900	—	A1216-ND◆	1.48	106.18	350212-1
	Pre-Tin Positive Lock Long Tail	.900	—	A14377-ND◆	2.25	161.50	350426-1
	Gold Positive Lock Dual Row	.900	—	A32183-ND◆	6.22	445.74	1586518-2
10	Pre-Tin Positive Lock Dual Row	1.095	—	A1218-ND◆	1.75	125.26	1-380991-0
	Gold Positive Lock Dual Row	1.095	—	A1219-ND A33354-ND◆	8.77 8.21	628.74 588.36	2-380991-0 2-1586544-0
	Pre-Tin Positive Lock Long Tail	1.095	—	A14378-ND◆	3.24	231.92	350219-1
12	Pre-Tin Positive Lock	1.290	—	A14379-ND◆	3.28	234.74	350213-1
	Pre-Tin Positive Lock Long Tail	1.290	—	A14380-ND◆	3.42	244.90	350220-1
16	Pre-Tin Positive Lock	1.680	—	A14381-ND◆	4.04	289.37	350214-1
	Pre-Tin Positive Lock Long Tail	1.680	—	A14382-ND◆	5.28	378.15	350427-1

* UV Stable Black Color † Housing Material: UL94V-0 Rated ◆ ***RoHS Compliant***

(Continued)

No. of Circuits	Description	Dimension – Inch A	B	Digi-Key Part No.	Pricing 1	100	AMP Part No.
Fig. 3 – PC Board Vertical Pin Header – Mate with Socket Housing – UL94V-2							
4	Pre-Tin, with Detent Lock	.915	—	A25420-ND	1.28	91.98	770328-1
	Pre-Tin, with Detent Lock Housing Material UL94V-0	.915	—	A25422-ND◆	1.02	72.80	794236-1
12	Gold with Positive Lock	1.290	—	A32184-ND◆	9.45	677.03	1586520-2
Fig. 3 – PC Board Vertical Socket Header – Mate with Pin Housing – UL94V-2 RoHS Compliant							
4	Pre-Tin, In-Line, SMT Compatible	1.000	—	A25425-ND	1.35	109.45	794287-1
6	Pre-Tin, Matrix	.720	—	A25763-ND	2.63	212.50	350641-1
9	Pre-Tin, Matrix	.960	—	A25764-ND	1.68	136.00	350642-1
12	Pre-Tin, Matrix	1.200	—	A25426-ND	3.22	260.95	350643-1
15	Pre-Tin, Matrix	1.440	—	A25765-ND	3.94	318.96	350644-1
Fig. 4 – Positive Lock Socket Housing — RoHS Compliant							
2	Socket Housing (Plug)	.435	—	A14357-ND	.55	35.24	1-480720-0
3	Socket Housing (Plug)	.630	—	A14358-ND	1.15	73.66	1-480721-0
4	Socket Housing (Plug)	.830	—	A14359-ND	1.25	80.38	1-480722-0
Fig. 5 – Motor Mount Housing (Positive Lock) — RoHS Compliant							
6	Pin Housing (Cap)	.705	—	A14361-ND	.94	60.15	1-480271-0
6	Socket Housing (Plug)	—	.610	A1413-ND	.63	40.64	1-480270-0
8	Pin Housing (Cap)	.900	—	A25410-ND	1.57	100.97	1-480284-0
10	Pin Housing (Cap)	1.095	—	A25411-ND	1.80	115.67	1-480286-0
12	Pin Housing (Cap)	1.290	—	A25413-ND	1.97	126.44	1-480288-0
12	Socket Housing (Plug)	—	1.195	A25412-ND	1.39	89.47	1-480287-0
16	Pin Housing (Cap)	1.680	—	A14363-ND	1.57	100.78	1-480439-0
16	Socket Housing (Plug)	—	1.585	A14362-ND	2.06	131.94	1-480438-0
Fig. 6 – PC Board Right Angle Pin Headers - Mates with Socket Housing RoHS Compliant							
2	UL94V-2, Nylon, Natural	.600	—	A25753-ND	2.03	145.82	794120-1
3	UL94V-0, Nylon	.800	—	A25429-ND	2.78	198.96	643488-1
4	UL94V-2, Nylon, Natural	1.000	—	A25430-ND	1.52	109.15	641737-1
	UL94V-2, Nylon, Natural, Surface Mount Compatible	1.000	—	A25431-ND	2.47	176.97	770846-1
	UL94V-0, Nylon	1.000	—	A25432-ND	2.31	165.86	1-641737-1

No. of Circuits	Description	Dimension – Inch A	B	Digi-Key Part No.	Pricing 1	100	AMP Part No.
Fig. 7 – PC Board Surface Mount Pin Header — RoHS Compliant							
4	Pin Header, In-Line	—	—	A25424-ND	2.22	158.78	770829-1
Fig. 8 – Insulation Displacement Connector (IDC) — RoHS Compliant							
	Pre-Tin, 22AWG, Red, UL94V-2	—	—	A14383-ND	.65	52.97	770156-2
	Pre-Tin, 22AWG, Red, UL94V-0	—	—	A25433-ND	.93	75.63	794036-3
	Pre-Tin, 20AWG, Yellow, UL94V-2	—	—	A14384-ND	.65	52.97	770156-4
	Pre-Tin, 20AWG, Yellow, UL94V-0	—	—	A25434-ND	.93	75.63	794036-2
	Pre-Tin, 18AWG, Orange, UL94V-2	—	—	A14385-ND	.65	52.97	770156-3
	Pre-Tin, 18AWG, Orange, UL94V-0	—	—	A25435-ND	1.16	93.77	794036-1
	Pre-Tin, 16AWG, Blue, UL94V-2	—	—	A25436-ND	1.01	81.95	770156-5
	Pre-Tin, 16AWG, Blue, UL94V-0	—	—	A25437-ND	.93	75.63	794036-4
Dust Covers for IDC Parts - UL94V-2 — RoHS Compliant							
	For Feed-To Wiring, Polyester, White	—	—	A25438-ND	.20	16.02	770232-1
	For Feed-Thru Wiring, Polyester, White	—	—	A25439-ND	.21	16.60	770233-1
Fig. 9 – Commoning Tabs - Use With Pin Housing — RoHS Compliant							
	2 Holes, Brass, Tin Plated	.377	.203	A25427-ND	.06	5.10	60843-1
	3 Holes, Brass, Tin Plated	.579	.203	A25428-ND	.07	5.58	60842-1
Tools							
	CERTI-CRIMP™ Crimp Tool, 30-22AWG, .035"-.055" Insulation Diameter			A9951-ND		519.12/1	91515-1
	CERTI-CRIMP Crimp Tool, 24-18AWG, .043"-.100" Insulation Diameter			A9948-ND		551.57/1	91528-1
	CERTI-CRIMP Crimp Tool, 24-18AWG, .060"-.100" Insulation Diameter			A9974-ND		495.95/1	91512-1
	CERTI-CRIMP Crimp Tool, 20-14AWG, .100"-.130" Insulation Diameter			A9908-ND		457.32/1	91504-1
	PRO-CRIMPER™ III Crimp Tool Without Dies			A9996-ND		66.00/1	354940-1
	PRO-CRIMPER II/III Repair Kit			A34584-ND		51.00/1	679221-1
	PRO-CRIMPER III Crimp Tool, With Dies, 24-18AWG			A25418-ND		159.99/1	90574-1
	PRO-CRIMPER III Crimp Tool, With Dies, 20-14AWG			A25419-ND		168.00/1	90575-1
	Die Set for PRO-CRIMPER III 24-18AWG			A9940-ND		106.05/1	90574-2
	Die Set for PRO-CRIMPER III 20-14AWG			A9939-ND		115.50/1	90575-2
	Contact Extraction Tool			A1419-ND		13.23/1	465644-1
	Contact Insertion Tool			A9998-ND		19.38/1	91002-1
	Contact Insertion Tool (Tweezer Type)			A1444-ND		17.06/1	455830-1

* UV Stable Black Color † Housing Material: UL94V-0 Rated ◆ ***RoHS Compliant***

Contacts

RoHS COMPLIANT

Fig. 1

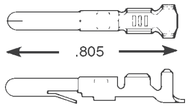

Pin

- Carries up to 15 amps maximum (based on 30°C temperature rise)
- Low insertion/extraction forces
- UL recognized for 250 volts, AC/DC
- CSA certified

Fig. 2

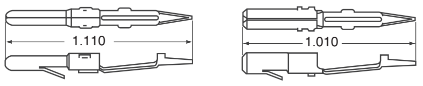

Pin **Socket**

For PC board with the following specifications:
- Board Thickness: .062" (1.57mm)
- Board Hole Size: .057" (1.45mm)

Description	Insul. Dia. Range (Inch)	Digi-Key Part No.	Pricing		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		AMP Part No.
			10	100			500	1000		Qty.	Pricing	
Fig. 1 – Crimp Contacts (Pins & Sockets)												
Pin, Brass, Pre-Tin	30-22AWG .040 - .075	A25547-ND	2.09	14.03	61174-1	A25547CT-ND	—	58.33	A25547TR-ND	8,000	35.00/M	350079-1
Socket, Brass, Pre-Tin		A25548-ND	2.09	14.03	61173-1	A25548CT-ND	32.08	58.33	A25548TR-ND	6,500	35.00/M	350078-1
Pin, Phosphor Bronze, Pre-Tin		—	—	—	—	A25549CT-ND	68.28	101.63	A25549TR-ND	8,000	78.18/M	350079-4
Socket, Phosphor Bronze, Pre-Tin		A25550-ND	3.31	22.24	61173-4	A25550CT-ND	66.18	120.33	A25550TR-ND	6,500	72.20/M	350078-4
Pin, Brass, Gold		A25552-ND	16.34	109.95	61174-5	A25552CT-ND	—	858.80	A25552TR-ND	8,000	515.28/M	350079-5
Socket, Brass, Gold		A25767-ND	16.34	109.95	61173-5	—	—	—	—	—	—	—
Pin, Brass, Pre-Tin	24-18AWG .060 - .100	A1422-ND	1.41	9.51	60618-1	—	—	—	—	—	—	—
Socket, Brass, Pre-Tin		A1423-ND	1.40	9.39	60617-1	—	—	—	—	—	—	—
Pin, Phosphor Bronze, Pre-Tin		A25554-ND	3.08	20.71	60618-4	A25554CT-ND	—	120.33	A25554TR-ND	8,000	72.20/M	61116-4
Socket, Phosphor Bronze, Pre-Tin		A25555-ND	3.08	20.71	60617-4	A25555CT-ND	—	90.10	A25555TR-ND	7,000	54.06/M	61314-4
Pin, Brass, Gold		A1432-ND	13.35	89.80	60618-5	—	—	—	—	—	—	—
Socket, Brass, Gold		A1433-ND	13.35	89.80	60617-5	A1433CT-ND	—	859.85	A1433TR-ND	7,000	515.91/M	61314-5
Pin, Phosphor Bronze, Select Gold		A25558-ND	16.12	108.41	60618-6	—	—	—	—	—	—	—
Socket, Phosphor Bronze, Select Gold		A25559-ND	13.76	92.56	60617-6	A25559CT-ND	—	738.30	A25559TR-ND	7,000	442.98/M	61314-6
Pin, Brass, Select Gold		—	—	—	—	A25560CT-ND	254.36	378.63	A25560TR-ND	8,000	291.26/M	61116-7
Pin, Brass, Pre-Tin	20-14AWG .100 - .130	A1420-ND	1.40	9.39	60620-1	A97887CT-ND ***NEW!***	24.64	36.68	A97887TR-ND ***NEW!***	5,000	28.22/M	61118-1
Socket, Brass, Pre-Tin		A1421-ND	1.40	9.39	60619-1	A97888CT-ND ***NEW!***	24.64	36.68	A97888TR-ND ***NEW!***	5,000	28.22/M	61117-1
Pin, Phosphor Bronze, Pre-Tin		A25561-ND	3.08	20.71	60620-4	—	—	—	—	—	—	—
Socket, Phosphor Bronze, Pre-Tin		A25562-ND	3.08	20.71	60619-4	—	—	—	—	—	—	—
Pin, Brass, Gold		A1434-ND	12.66	85.14	60620-5	A1434CT-ND	—	858.80	A1434TR-ND	5,000	515.28/M	61118-5
Socket, Brass, Gold		A1435-ND	13.35	89.80	60619-5	—	—	—	—	—	—	—
Socket, Phosphor Bronze, Gold		A25565-ND	15.32	103.05	60619-7	A25565CT-ND	—	1021.88	A25565TR-ND	5,000	613.13/M	61117-6
Pin, (2)18 or (1)18 and (1)16AWG, Brass, Pre-Tin	.115 Max. (stacked)	A25568-ND	2.09	14.03	350639-1	A25568CT-ND	—	69.53	A25568TR-ND	3,000	55.62/M	350558-1
Socket, (2)18 or (1)18 and (1)16AWG, Brass, Pre-Tin		—	—	—	—	A25567CT-ND	36.43	54.23	A25567TR-ND	3,000	55.62/M	350557-1
Pin, (2)18 or (1)18 and (1)16AWG, Phos. Bronze, Pre-Tin		—	—	—	—	A25769CT-ND	68.15	101.44	A25769TR-ND	3,000	104.04/M	350558-4
Socket, (2)18 or (1)18 and (1)16AWG, Phos. Brz., Pre-Tin		A25570-ND	3.08	20.71	350638-4	A25570CT-ND	—	130.05	A25570TR-ND	3,000	104.04/M	350557-4
Fig. 2 – PC Board Contacts												
Pin, Phosphor Bronze, Pre-Tin	—	A24727-ND	1.98	13.30	61518-1	—	—	—	—	—	—	—
Socket, Phosphor Bronze, Pre-Tin	—	A24728-ND	2.09	14.03	61320-1	—	—	—	—	—	—	—
Keying Plug												
Nylon, Natural UL94V-2	—	A16066-ND	—	15.68	200821-1	—	—	—	—	—	—	—

Gold Finish - Plated with .000030 minimum gold in mating area and inside wire barrel over .000050 minimum nickel Select Gold Finish - Plated with .000030 minimum gold in mating area over .000050 minimum nickel

Micro MATE-N-LOK® Connectors

Features:
- Wire-to-wire and wire-to-board pin and receptacle connector system
- Contacts are on 3mm (.118 inch) centerline spacing

Characteristics:
- Voltage Rating: 250VAC
- Current Rating: 5 Amp maximum on 20 AWG wire
- Operating Temperature: -40°C ~ 105°C

Approvals:
- Underwriters Laboratories Inc.
- File No. E28476

c UL us

Fig. 1

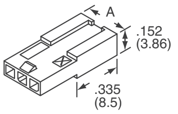

Fig. 2

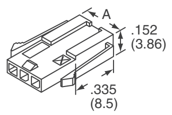

Fig. 3

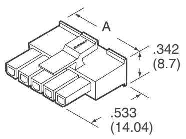

Fig. 4

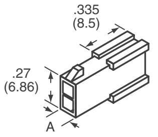

Fig. 5

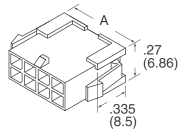

Fig. 6

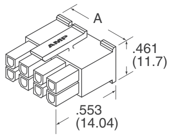

Fig. 7

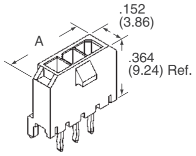

Fig. 8

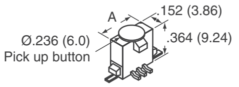

Fig. 9

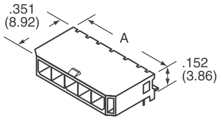

Fig. 10

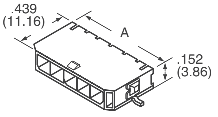

Fig. 11

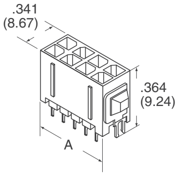

Fig. 12

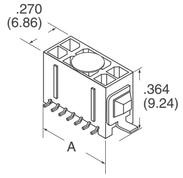

Fig. 13

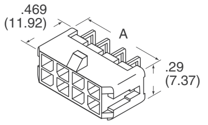

Fig. 14

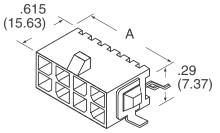

Fig.	No. of Cir- cuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each 1	100	1,000	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Price	AMP Part No.
Plug Housing — Single Row, Free Hanging – RoHS Compliant											
1	2	6.85	—	A30236-ND	.43	.28	.22	—	—	—	1445049-2
	3	9.85	—	A30237-ND	.50	.33	.26	—	—	—	1445049-3
	4	12.85	—	A30238-ND	.57	.37	.29	—	—	—	1445049-4
	5	15.85	—	A30239-ND	.64	.41	.32	—	—	—	1445049-5
	6	18.85	—	A30240-ND	.70	.46	.36	—	—	—	1445049-6
	7	21.85	—	A30241-ND	.77	.50	.39	—	—	—	1445049-7
	8	24.85	—	A30242-ND	.84	.54	.43	—	—	—	1445049-8
	9	27.85	—	A30243-ND	.91	.59	.46	—	—	—	1445049-9
	10	30.85	—	A30244-ND	.98	.63	.49	—	—	—	1-1445049-0
	11	33.85	—	A30245-ND	1.13	.73	.57	—	—	—	1-1445049-1
	12	36.85	—	A30246-ND	1.11	.72	.56	—	—	—	1-1445049-2
Plug Housing — Single Row, Panel Mount – RoHS Compliant											
2	2	6.85	—	A30247-ND	.43	.28	.22	—	—	—	1445048-2
	3	9.85	—	A30248-ND	.50	.33	.26	—	—	—	1445048-3
	4	12.85	—	A30249-ND	.57	.37	.29	—	—	—	1445048-4
	5	15.85	—	A30250-ND	.64	.41	.32	—	—	—	1445048-5
	6	18.85	—	A30251-ND	.70	.46	.36	—	—	—	1445048-6
	7	21.85	—	A30252-ND	.77	.50	.39	—	—	—	1445048-7
	8	24.85	—	A30253-ND	.84	.54	.43	—	—	—	1445048-8
	9	27.85	—	A30254-ND	.91	.59	.46	—	—	—	1445048-9
	10	30.85	—	A30255-ND	.98	.63	.49	—	—	—	1-1445048-0
	11	33.85	—	A30256-ND	1.13	.73	.57	—	—	—	1-1445048-1
	12	36.85	—	A30257-ND	1.11	.72	.56	—	—	—	1-1445048-2
Receptacle Housing — Single Row – RoHS Compliant											
3	2	7.00	—	A30258-ND	.43	.28	.22	—	—	—	1445022-2
	3	10.00	—	A30259-ND	.50	.33	.26	—	—	—	1445022-3
	4	13.00	—	A30260-ND	.57	.37	.29	—	—	—	1445022-4
	5	16.00	—	A30261-ND	.64	.41	.33	—	—	—	1445022-5
	6	19.00	—	A30262-ND	.71	.46	.36	—	—	—	1445022-6
	7	22.00	—	A30263-ND	.78	.50	.39	—	—	—	1445022-7
	8	25.00	—	A30264-ND	.84	.55	.43	—	—	—	1445022-8
	9	28.00	—	A30265-ND	.91	.59	.46	—	—	—	1445022-9
	10	31.00	—	A30266-ND	.98	.63	.50	—	—	—	1-1445022-0
	11	34.00	—	A30267-ND	1.05	.68	.53	—	—	—	1-1445022-1
	12	37.00	—	A30268-ND	1.12	.72	.57	—	—	—	1-1445022-2
Plug Housing — Dual Row, Free Hanging – RoHS Compliant											
4	2	3.85	—	A30269-ND	.43	.28	.22	—	—	—	794616-2
	4	6.85	—	A30270-ND	.57	.37	.29	—	—	—	794616-4
	6	9.85	—	A30271-ND	.70	.46	.36	—	—	—	794616-6
	8	12.85	—	A30272-ND	.84	.54	.43	—	—	—	794616-8
	10	15.85	—	A30273-ND	.98	.63	.49	—	—	—	1-794616-0
	12	18.85	—	A30274-ND	1.11	.72	.56	—	—	—	1-794616-2
	14	21.85	—	A30275-ND	1.25	.81	.63	—	—	—	1-794616-4
	16	24.85	—	A30276-ND	1.38	.89	.70	—	—	—	1-794616-6
	18	27.85	—	A30277-ND	1.52	.98	.77	—	—	—	1-794616-8
	20	30.85	—	A30278-ND	1.66	1.07	.84	—	—	—	2-794616-0
	22	33.85	—	A30279-ND	1.94	1.25	.98	—	—	—	2-794616-2
	24	36.85	—	A30280-ND	2.09	1.34	1.05	—	—	—	2-794616-4

Fig.	No. of Cir- cuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each 1	100	1,000	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Price	AMP Part No.
Plug Housing — Dual Row, Panel Mount – RoHS Compliant											
5	2	3.85	—	A30281-ND	.43	.28	.22	—	—	—	794615-2
	4	6.85	—	A30282-ND	.57	.37	.29	—	—	—	794615-4
	6	9.85	—	A30283-ND	.70	.46	.36	—	—	—	794615-6
	8	12.85	—	A30284-ND	.84	.54	.43	—	—	—	794615-8
	10	15.85	—	A30285-ND	.98	.63	.49	—	—	—	1-794615-0
	12	18.85	—	A30286-ND	1.11	.72	.56	—	—	—	1-794615-2
	14	21.85	—	A30287-ND	1.25	.81	.63	—	—	—	1-794615-4
	16	24.85	—	A30288-ND	1.50	.97	.76	—	—	—	1-794615-6
	18	27.85	—	A30289-ND	1.65	1.06	.83	—	—	—	1-794615-8
	20	30.85	—	A30290-ND	1.79	1.16	.90	—	—	—	2-794615-0
	22	33.85	—	A30291-ND	1.79	1.15	.90	—	—	—	2-794615-2
	24	36.85	—	A30292-ND	1.93	1.24	.97	—	—	—	2-794615-4
Receptacle Housing — Dual Row – RoHS Compliant											
6	2	4.00	—	A30293-ND	.40	.26	.21	—	—	—	794617-2
	4	7.00	—	A30294-ND	.44	.29	.23	—	—	—	794617-4
	6	10.00	—	A30295-ND	.49	.32	.25	—	—	—	794617-6
	8	13.00	—	A30296-ND	.54	.35	.27	—	—	—	794617-8
	10	16.00	—	A30297-ND	.59	.38	.30	—	—	—	1-794617-0
	12	19.00	—	A30298-ND	.65	.42	.33	—	—	—	1-794617-2
	14	22.00	—	A30299-ND	.72	.46	.36	—	—	—	1-794617-4
	16	25.00	—	A30300-ND	.79	.51	.40	—	—	—	1-794617-6
	18	28.00	—	A30301-ND	.87	.56	.44	—	—	—	1-794617-8
	20	31.00	—	A30302-ND	.95	.62	.48	—	—	—	2-794617-0
	22	34.00	—	A30303-ND	1.05	.68	.53	—	—	—	2-794617-2
	24	37.00	—	A30304-ND	1.15	.74	.58	—	—	—	2-794617-4
Vertical Thru Hole Header — Single Row											
7	2	7.00	Tin	A30314-ND	1.71	1.23	.77	—	—	—	1445050-2
	2	7.00	Gold	A30325-ND	1.71	1.23	.77	—	—	—	1445093-2
	3	10.00	Tin	A30315-ND	2.02	1.45	.91	—	—	—	1445050-3
	3	10.00	Gold	A30326-ND	2.02	1.45	.91	—	—	—	1445093-3
	4	13.00	Tin	A30316-ND	2.34	1.68	1.06	—	—	—	1445050-4
	4	13.00	Gold	A30327-ND	2.34	1.68	1.06	—	—	—	1445093-4
	5	16.00	Tin	A30317-ND	2.65	1.91	1.20	—	—	—	1445050-5
	5	16.00	Gold	A30328-ND	2.65	1.91	1.20	—	—	—	1445093-5
	6	19.00	Tin	A30318-ND	2.97	2.13	1.34	—	—	—	1445050-6
	6	19.00	Gold	A30329-ND	2.97	2.13	1.34	—	—	—	1445093-6
	8	25.00	Tin	A30320-ND	3.60	2.59	1.63	—	—	—	1445050-8
	8	25.00	Gold	A30331-ND	3.60	2.59	1.63	—	—	—	1445093-8
	9	28.00	Tin	A30321-ND	3.92	2.81	1.77	—	—	—	1445050-9
	9	28.00	Gold	A30332-ND	3.92	2.81	1.77	—	—	—	1445093-9
	10	31.00	Tin	A30322-ND	4.23	3.04	1.91	—	—	—	1-1445050-0
	10	31.00	Gold	A30333-ND	4.23	3.04	1.91	—	—	—	1-1445093-0

† Cut Tape

(Continued)

Vertical Thru Hole Header — Single Row
RoHS Compliant

Fig.	No. of Cir-cuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		AMP Part No.
					1	100	1,000		Qty.	Price	
7	2	7.00	Tin	A33194-ND	1.59	1.15	.72	—	—	—	2-1445050-2
	2	7.00	Gold	A34833-ND	1.59	1.15	.72	—	—	—	2-1445093-2
	3	10.00	Tin	A33195-ND	1.89	1.36	.86	—	—	—	2-1445050-3
	3	10.00	Gold	A33198-ND	1.89	1.36	.86	—	—	—	2-1445093-3
	4	13.00	Tin	A34826-ND	2.19	1.57	.99	—	—	—	2-1445050-4
	4	13.00	Gold	A34834-ND	2.19	1.57	.99	—	—	—	2-1445093-4
	5	16.00	Tin	A33196-ND	2.48	1.78	1.12	—	—	—	2-1445050-5
	5	16.00	Gold	A34835-ND	2.48	1.78	1.12	—	—	—	2-1445093-5
	6	19.00	Tin	A33197-ND	2.78	1.99	1.25	—	—	—	2-1445050-6
	6	19.00	Gold	A34836-ND	2.78	1.99	1.25	—	—	—	2-1445093-6
	7	22.00	Tin	A34827-ND	3.07	2.21	1.39	—	—	—	2-1445050-7
	7	22.00	Gold	A34837-ND	3.07	2.21	1.39	—	—	—	2-1445093-7
	8	25.00	Tin	A34828-ND	3.37	2.42	1.52	—	—	—	2-1445050-8
	8	25.00	Gold	A34838-ND	3.37	2.42	1.52	—	—	—	2-1445093-8
	9	28.00	Tin	A34829-ND	3.66	2.63	1.65	—	—	—	2-1445050-9
	9	28.00	Gold	A34839-ND	3.66	2.63	1.65	—	—	—	2-1445093-9
	10	31.00	Tin	A34840-ND	3.96	2.84	1.79	—	—	—	3-1445050-0
	10	31.00	Gold	A34844-ND	3.96	2.84	1.79	—	—	—	3-1445093-0

Vertical Surface Mount Header — Single Row, with Surface Mount Holddowns

Fig.	No. of Cir-cuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		AMP Part No.
					1	100	1,000		Qty.	Price	
8	2	10.00	Tin	A30336CT-ND†	3.14	1.89	—	A30336TR-ND	210	282.84	1445053-2
	2	10.00	Gold	A30347CT-ND†	3.14	1.89	—	A30347TR-ND	210	282.84	1445096-2
	3	13.00	Tin	A30337CT-ND†	3.72	2.24	—	A30337TR-ND	210	335.07	1445053-3
	3	13.00	Gold	A30348CT-ND†	3.72	2.24	—	A30348TR-ND	210	379.75	1445096-3
	4	16.00	Tin	A30338CT-ND†	4.30	2.59	—	A30338TR-ND	210	387.30	1445053-4
	4	16.00	Gold	A30349CT-ND†	4.30	2.59	—	A30349TR-ND	210	438.94	1445096-4
	5	19.00	Tin	A30339CT-ND†	4.88	2.94	—	A30339TR-ND	210	439.54	1445053-5
	5	19.00	Gold	A30350CT-ND†	4.88	2.94	—	A30350TR-ND	210	439.54	1445096-5
	6	22.00	Tin	A30340CT-ND†	5.46	3.28	—	A30340TR-ND	210	557.33	1445053-6
	6	22.00	Gold	A30351CT-ND†	5.46	3.28	—	A30351TR-ND	210	491.77	1445096-6
	12	40.00	Tin	A30346CT-ND†	8.95	5.37	—	A30346TR-ND	210	805.16	1-1445053-2

Vertical Surface Mount Header — Single Row, with Surface Mount Holddowns
RoHS Compliant

Fig.	No. of Cir-cuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		AMP Part No.
					1	100	1,000		Qty.	Price	
8	2	10.00	Tin	A33199CT-ND†	2.94	1.77	—	A33199TR-ND	210	299.58	2-1445053-2
	2	10.00	Gold	A33204CT-ND†	2.94	1.77	—	A33204TR-ND	210	299.58	2-1445096-2
	3	13.00	Tin	A33200CT-ND†	3.48	2.09	—	A33200TR-ND	210	354.90	2-1445053-3
	3	13.00	Gold	A33205CT-ND†	3.48	2.09	—	A33205TR-ND	210	354.90	2-1445096-3
	4	16.00	Tin	A33201CT-ND†	4.02	2.42	—	A33201TR-ND	210	410.23	2-1445053-4
	4	16.00	Gold	A33206CT-ND†	4.02	2.42	—	A33206TR-ND	210	410.23	2-1445096-4
	5	19.00	Tin	A34830CT-ND†	4.56	2.74	—	A34830TR-ND	210	465.55	2-1445053-5
	5	19.00	Gold	A34853CT-ND†	4.56	2.74	—	A34853TR-ND	210	465.55	2-1445096-5
	6	22.00	Tin	A33202CT-ND†	5.11	3.07	—	A33202TR-ND	210	520.87	2-1445053-6
	6	22.00	Gold	A34854CT-ND†	5.11	3.07	—	A34854TR-ND	210	520.87	2-1445096-6
	8	28.00	Tin	A33203CT-ND†	6.19	3.72	—	A33203TR-ND	210	631.52	2-1445053-8
	8	28.00	Gold	A34856CT-ND†	6.19	3.72	—	A34856TR-ND	210	631.52	2-1445096-8
	12	40.00	Tin	A34873CT-ND†	8.36	5.02	—	A34873TR-ND	210	852.81	2-1445053-2

Right Angle Thru Hole Header — Single Row, with Plastic Holddowns

Fig.	No. of Cir-cuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		AMP Part No.
					1	100	1,000		Qty.	Price	
9	2	10.14	Tin	A30358-ND	1.71	1.23	.77	—	—	—	1445055-2
	2	10.14	Gold	A30369-ND	1.71	1.23	.77	—	—	—	1445098-2
	3	13.14	Tin	A30359-ND	2.02	1.45	.91	—	—	—	1445055-3
	3	13.14	Gold	A30370-ND	2.02	1.45	.91	—	—	—	1445098-3
	4	16.14	Tin	A30360-ND	2.34	1.68	1.06	—	—	—	1445055-4
	4	16.14	Gold	A30371-ND	2.34	1.68	1.06	—	—	—	1445098-4
	5	19.14	Gold	A30372-ND	2.65	1.91	1.20	—	—	—	1445098-5
	7	25.14	Tin	A30363-ND	3.29	2.36	1.48	—	—	—	1445055-7
	8	28.14	Tin	A30364-ND	3.60	2.59	1.63	—	—	—	1445055-8
	8	28.14	Gold	A30375-ND	3.60	2.59	1.63	—	—	—	1445098-8
	9	31.14	Tin	A30365-ND	3.92	2.81	1.77	—	—	—	1445055-9
	10	34.14	Gold	A30377-ND	4.23	3.04	1.91	—	—	—	1-1445098-0
	11	37.14	Gold	A30378-ND	4.55	3.27	2.05	—	—	—	1-1445098-1

Right Angle Thru Hole Header — Single Row, with Plastic Holddowns
RoHS Compliant

Fig.	No. of Cir-cuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		AMP Part No.
					1	100	1,000		Qty.	Price	
9	2	10.14	Tin	A33207-ND	1.59	1.15	.72	—	—	—	2-1445055-2
	2	10.14	Gold	A34858-ND	1.59	1.15	.72	—	—	—	2-1445098-2
	3	13.14	Tin	A33208-ND	1.89	1.36	.86	—	—	—	2-1445055-3
	3	13.14	Gold	A34859-ND	1.89	1.36	.86	—	—	—	2-1445098-3
	4	16.14	Tin	A33209-ND	2.19	1.57	.99	—	—	—	2-1445055-4
	4	16.14	Gold	A34860-ND	2.19	1.57	.99	—	—	—	2-1445098-4
	5	19.14	Tin	A33210-ND	2.48	1.78	1.12	—	—	—	2-1445055-5
	5	19.14	Gold	A34861-ND	2.48	1.78	1.12	—	—	—	2-1445098-5
	6	22.14	Tin	A33211-ND	2.78	1.99	1.25	—	—	—	2-1445055-6
	7	25.14	Tin	A34847-ND	3.07	2.21	1.39	—	—	—	2-1445055-7
	7	25.14	Gold	A34863-ND	3.07	2.21	1.39	—	—	—	2-1445098-7
	8	28.14	Gold	A34864-ND	3.37	2.42	1.52	—	—	—	2-1445098-8
	8	28.14	Tin	A34848-ND	3.37	2.42	1.52	—	—	—	2-1445055-8
	9	31.14	Tin	A34849-ND	3.66	2.63	1.65	—	—	—	2-1445055-9

Right Angle Surface Mount Header — Single Row, with Surface Mount Holddowns

Fig.	No. of Cir-cuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		AMP Part No.
					1	100	1,000		Qty.	Price	
10	2	10.00	Tin	A30380CT-ND†	2.49	1.50	—	A30380TR-ND	215	229.73	1445057-2
	3	13.00	Tin	A30381CT-ND†	2.95	1.78	—	A30381TR-ND	215	272.21	1445057-3
	4	16.00	Tin	A30382CT-ND†	4.80	2.88	—	A30382TR-ND	215	442.09	1445057-4
	5	19.00	Tin	A30383CT-ND†	3.88	2.33	—	A30383TR-ND	215	357.14	1445057-5
	6	22.00	Gold	A30395CT-ND†	5.46	3.28	—	A30395TR-ND	215	503.47	1445100-6
	7	25.00	Tin	A30385CT-ND†	4.80	2.88	—	A30385TR-ND	215	442.09	1445057-7
	8	28.00	Gold	A30397CT-ND†	6.62	3.98	—	A30397TR-ND	215	610.42	1445100-8
	9	31.00	Gold	A30398CT-ND†	7.21	4.33	—	A30398TR-ND	215	663.91	1445100-9

Right Angle Surface Mount Header — Single Row, with Surface Mount Holddowns
RoHS Compliant

Fig.	No. of Cir-cuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		AMP Part No.
					1	100	1,000		Qty.	Price	
10	2	10.00	Tin	A33212CT-ND†	2.33	1.40	—	A33212TR-ND	215	243.32	2-1445057-2
	2	10.00	Gold	A33217CT-ND†	2.94	1.77	—	A33217TR-ND	215	306.71	2-1445100-2
	3	13.00	Tin	A33213CT-ND†	2.76	1.66	—	A33213TR-ND	215	288.32	2-1445057-3
	3	13.00	Gold	A33218CT-ND†	3.48	2.09	—	A33218TR-ND	215	363.35	2-1445100-3
	4	16.00	Tin	A33214CT-ND†	4.48	2.70	—	A33214TR-ND	215	468.25	2-1445057-4
	5	19.00	Tin	A33215CT-ND†	3.62	2.18	—	A33215TR-ND	215	378.28	2-1445057-5
	6	22.00	Tin	A33216CT-ND†	4.05	2.44	—	A33216TR-ND	215	423.27	2-1445057-6
	6	22.00	Gold	A34868CT-ND†	5.11	3.07	—	A34868TR-ND	215	533.28	2-1445100-6
	7	25.00	Tin	A34850CT-ND†	4.48	2.70	—	A34850TR-ND	215	468.25	2-1445057-7
	8	28.00	Gold	A34870CT-ND†	6.62	3.98	—	A34870TR-ND	215	610.42	2-1445100-8
	9	31.00	Gold	A34871CT-ND†	6.73	4.05	—	A34871TR-ND	215	703.20	2-1445100-9

Vertical Thru Hole Header — Dual Row

Fig.	No. of Cir-cuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		AMP Part No.
					1	100	1,000		Qty.	Price	
11	2	7.00	Tin	A30402-ND	1.17	.84	.53	—	—	—	794630-2
	2	7.00	Gold	A30414-ND	1.84	1.33	.84	—	—	—	794632-2
	4	10.00	Tin	A30403-ND	1.62	1.17	.73	—	—	—	794630-4
	4	10.00	Gold	A30415-ND	2.55	1.83	1.15	—	—	—	794632-4
	6	13.00	Tin	A30404-ND	2.06	1.48	.93	—	—	—	794630-6
	6	13.00	Gold	A30416-ND	3.24	2.33	1.46	—	—	—	794632-6
	8	16.00	Tin	A30405-ND	2.50	1.80	1.13	—	—	—	794630-8
	8	16.00	Gold	A30417-ND	3.93	2.82	1.77	—	—	—	794632-8
	10	19.00	Tin	A30406-ND	2.93	2.10	1.32	—	—	—	1-794630-0
	10	19.00	Gold	A30418-ND	4.62	3.32	2.08	—	—	—	1-794632-0
	12	22.00	Tin	A30407-ND	4.19	3.01	1.89	—	—	—	1-794630-2
	12	22.00	Gold	A30419-ND	5.30	3.80	2.39	—	—	—	1-794632-2
	14	25.00	Tin	A30408-ND	3.80	2.73	1.72	—	—	—	1-794630-4
	14	25.00	Gold	A30420-ND	7.49	5.37	3.37	—	—	—	1-794632-4
	16	28.00	Gold	A30421-ND	6.66	4.78	3.00	—	—	—	1-794632-6
	18	31.00	Tin	A30410-ND	5.95	4.27	2.68	—	—	—	1-794630-8
	20	34.00	Tin	A30411-ND	5.28	3.79	2.38	—	—	—	2-794630-0
	20	34.00	Gold	A30423-ND	10.41	7.47	4.69	—	—	—	2-794632-0
	22	37.00	Tin	A30412-ND	5.82	4.17	2.62	—	—	—	2-794630-2
	24	40.00	Tin	A30413-ND	7.93	5.69	3.57	—	—	—	2-794630-4
	24	40.00	Gold	A30425-ND	9.99	7.17	4.50	—	—	—	2-794632-4

Vertical Thru Hole Header — Dual Row
RoHS Compliant

Fig.	No. of Cir-cuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		AMP Part No.
					1	100	1,000		Qty.	Price	
11	2	7.00	Tin	A33219-ND	1.09	.79	.50	—	—	—	3-794630-2
	2	7.00	Gold	A33231-ND	1.72	1.24	.78	—	—	—	3-794632-2
	4	10.00	Tin	A33220-ND	1.52	1.09	.69	—	—	—	3-794630-4
	4	10.00	Gold	A34892-ND	2.38	1.71	1.08	—	—	—	3-794632-4
	6	13.00	Tin	A32221-ND	2.45	1.67	1.67	—	—	—	3-794630-6
	6	13.00	Gold	A34893-ND	3.03	2.17	1.37	—	—	—	3-794632-6
	8	16.00	Tin	A33222-ND	2.34	1.68	1.06	—	—	—	3-794630-8
	8	16.00	Gold	A32542-ND	3.67	2.64	1.66	—	—	—	3-794632-8
	10	19.00	Tin	A33223-ND	2.74	1.97	1.24	—	—	—	4-794630-0
	10	19.00	Gold	A33232-ND	4.32	3.10	1.95	—	—	—	4-794632-0
	12	22.00	Tin	A33224-ND	3.13	2.25	1.41	—	—	—	4-794630-2
	12	22.00	Gold	A33233-ND	4.95	3.55	2.23	—	—	—	4-794632-2
	14	25.00	Tin	A33225-ND	3.55	2.55	1.60	—	—	—	4-794630-4
	14	25.00	Gold	A34906-ND	5.60	4.02	2.52	—	—	—	4-794632-4
	16	28.00	Tin	A33226-ND	3.95	2.83	1.78	—	—	—	4-794630-6
	16	28.00	Gold	A33234-ND	6.22	4.46	2.80	—	—	—	4-794632-6
	18	31.00	Tin	A33227-ND	4.45	3.19	2.01	—	—	—	4-794630-8
	20	34.00	Tin	A33228-ND	4.94	3.54	2.23	—	—	—	5-794630-0
	20	34.00	Gold	A34917-ND	7.78	5.58	3.51	—	—	—	5-794632-0
	22	37.00	Tin	A33229-ND	5.44	3.90	2.45	—	—	—	5-794630-2
	24	40.00	Tin	A33230-ND	5.93	4.25	2.67	—	—	—	5-794630-4
	24	40.00	Gold	A34919-ND	9.34	6.70	4.21	—	—	—	5-794632-4

† Cut Tape

(Continued)

Micro MATE-N-LOK® Connectors *(Cont.)*

Fig.	No. of Circuits	Dim. A (mm)	Plating	Digi-Key Part No.	Price Each 1	Price Each 100	Price Each 1,000	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Price	AMP Part No.
Vertical Surface Mount — Dual Row, Mechanical Holddowns											
12	2	7.00	Tin	A30426CT-ND†	4.33	2.60	—	A30426TR-ND	250	464.03	794636-2
	6	13.00	Tin	A30428CT-ND†	5.70	3.42	—	A30428TR-ND	175	427.21	794636-6
	10	19.00	Tin	A30430CT-ND†	7.19	4.32	—	A30430TR-ND	175	539.02	1-794636-0
	12	22.00	Tin	A30431CT-ND†	7.85	4.71	—	A30431TR-ND	175	588.55	1-794636-2
	14	25.00	Tin	A30432CT-ND†	8.54	5.13	—	A30432TR-ND	175	640.21	1-794636-4
	16	28.00	Tin	A30433CT-ND†	9.19	5.52	—	A30433TR-ND	175	781.18	1-794636-6
	18	31.00	Tin	A30434CT-ND†	10.21	6.13	—	A30434TR-ND	175	867.54	1-794636-8
	20	34.00	Tin	A30435CT-ND†	11.04	6.63	—	A30435TR-ND	175	938.12	2-794636-0
	24	40.00	Tin	A30437CT-ND†	12.66	7.60	—	A30437TR-ND	175	1075.79	2-794636-4
Vertical Surface Mount — Dual Row, Mechanical Holddowns RoHS Compliant											
12	2	7.00	Tin	A33235CT-ND†	2.87	1.73	—	A33235TR-ND	250	348.28	3-794636-2
	4	10.00	Tin	A33236CT-ND†	3.82	2.30	—	A33236TR-ND	175	324.83	3-794636-4
	6	13.00	Tin	A33237CT-ND†	4.34	2.61	—	A33237TR-ND	175	368.58	3-794636-6
	8	16.00	Tin	A33238CT-ND†	4.97	2.99	—	A33238TR-ND	175	422.72	3-794636-8
	10	19.00	Tin	A33239CT-ND†	5.47	3.29	—	A33239TR-ND	175	465.05	4-794636-0
	12	22.00	Tin	A33240CT-ND†	5.97	3.59	—	A33240TR-ND	175	507.79	4-794636-2
	14	25.00	Tin	A34908CT-ND†	6.50	3.90	—	A34908TR-ND	175	552.37	4-794636-4
	16	28.00	Tin	A33241CT-ND†	7.00	4.20	—	A33241TR-ND	175	594.70	4-794636-6
	18	31.00	Tin	A33242CT-ND†	7.77	4.67	—	A33242TR-ND	175	660.44	4-794636-8
	20	34.00	Tin	A33243CT-ND†	8.40	5.05	—	A33243TR-ND	175	714.17	5-794636-0
	24	40.00	Tin	A33244CT-ND†	9.64	5.79	—	A33244TR-ND	175	818.98	5-794636-4
Vertical Surface Mount Header — Dual Row, with Surface Mount Holddowns											
12	2	7.00	Gold	A30438CT-ND†	5.36	3.22	—	A30438TR-ND	250	574.23	794638-2
	6	13.00	Gold	A30440CT-ND†	7.51	4.51	—	A30440TR-ND	175	563.55	794638-6
	8	16.00	Gold	A30441CT-ND†	7.51	4.51	—	A30441TR-ND	175	563.55	794638-8
	10	19.00	Gold	A30442CT-ND†	9.79	5.88	—	A30442TR-ND	175	734.57	1-794638-0
	12	22.00	Gold	A30443CT-ND†	8.82	5.30	—	A30443TR-ND	175	749.57	1-794638-2
	16	28.00	Gold	A30445CT-ND†	12.94	7.77	—	A30445TR-ND	175	1099.59	1-794638-6
	20	34.00	Gold	A30447CT-ND†	15.70	9.42	—	A30447TR-ND	175	1177.34	2-794638-0
	24	40.00	Gold	A30449CT-ND†	18.19	10.92	—	A30449TR-ND	175	1364.40	2-794638-4
Vertical Surface Mount Header — Dual Row, with Surface Mount Holddowns RoHS Compliant											
12	2	7.00	Gold	A34894CT-ND†	3.55	2.13	—	A34894TR-ND	250	430.99	3-794638-2
	4	10.00	Gold	A33245CT-ND†	4.91	2.95	—	A33245TR-ND	175	417.02	3-794638-4
	6	13.00	Gold	A34895CT-ND†	5.72	3.44	—	A34895TR-ND	175	486.23	3-794638-6
	8	16.00	Gold	A33246CT-ND†	5.72	3.44	—	A33246TR-ND	175	486.23	3-794638-8
	10	19.00	Gold	A33247CT-ND†	7.46	4.48	—	A33247TR-ND	175	633.77	4-794638-0
	12	22.00	Gold	A33248CT-ND†	8.24	4.95	—	A33248TR-ND	175	700.54	4-794638-2
	14	25.00	Gold	A33249CT-ND†	9.06	5.44	—	A33249TR-ND	175	769.94	4-794638-4
	16	28.00	Gold	A33250CT-ND†	9.85	5.91	—	A33250TR-ND	175	837.10	4-794638-6
	18	31.00	Gold	A34909CT-ND†	10.98	6.59	—	A34909TR-ND	175	933.37	4-794638-8
	20	34.00	Gold	A34921CT-ND†	11.95	7.18	—	A34921TR-ND	175	1015.80	4-794638-0
	24	40.00	Gold	A33251CT-ND†	13.85	8.31	—	A33251TR-ND	175	1177.19	5-794638-4
Right Angle Thru Hole Header — Dual Row											
13	2	7.00	Tin	A30450-ND	.90	.65	.41	—	—	—	794618-2
	2	7.00	Gold	A30462-ND	2.25	1.62	1.02	—	—	—	794620-2
	4	10.00	Tin	A30451-ND	1.96	1.41	.89	—	—	—	794618-4
	4	10.00	Gold	A30463-ND	3.08	2.21	1.39	—	—	—	794620-4
	6	13.00	Tin	A30452-ND	2.48	1.78	1.12	—	—	—	794618-6
	6	13.00	Gold	A30464-ND	3.90	2.80	1.76	—	—	—	794620-6
	8	16.00	Tin	A30453-ND	3.02	2.17	1.36	—	—	—	794618-8
	8	16.00	Gold	A30465-ND	4.76	3.42	2.15	—	—	—	794620-8
	10	19.00	Tin	A30454-ND	3.55	2.55	1.60	—	—	—	1-794618-0
	10	19.00	Gold	A30466-ND	5.58	4.00	2.51	—	—	—	1-794620-0
	12	22.00	Tin	A30455-ND	4.07	2.92	1.83	—	—	—	1-794618-2
	14	25.00	Tin	A30456-ND	4.59	3.30	2.07	—	—	—	1-794618-4
	14	25.00	Gold	A30468-ND	9.03	6.48	4.07	—	—	—	1-794620-4
	16	28.00	Tin	A30457-ND	6.41	4.60	2.89	—	—	—	1-794618-6
	16	28.00	Gold	A30469-ND	8.07	5.79	3.64	—	—	—	1-794620-6
	18	31.00	Tin	A30458-ND	7.20	5.16	3.24	—	—	—	1-794618-8
	20	34.00	Tin	A30459-ND	6.41	4.60	2.89	—	—	—	2-794618-0
	20	34.00	Gold	A30471-ND	10.08	7.23	4.54	—	—	—	2-794620-0
	22	37.00	Tin	A30460-ND	8.81	6.32	3.97	—	—	—	2-794618-2
	24	40.00	Gold	A30473-ND	12.12	8.69	5.46	—	—	—	2-794620-4
Right Angle Thru Hole Header — Dual Row RoHS Compliant											
13	2	7.00	Tin	A33252-ND	.84	.61	.38	—	—	—	3-794618-2
	2	7.00	Gold	A34887-ND	2.11	1.51	.95	—	—	—	3-794620-2
	4	10.00	Tin	A33253-ND	1.83	1.32	.83	—	—	—	3-794618-4
	4	10.00	Gold	A34888-ND	2.88	2.07	1.30	—	—	—	3-794620-4
	6	13.00	Tin	A33254-ND	2.32	1.66	1.05	—	—	—	3-794618-6
	6	13.00	Gold	A34889-ND	3.65	2.62	1.65	—	—	—	3-794620-6
	8	16.00	Tin	A33255-ND	2.82	2.03	1.28	—	—	—	3-794618-8
	8	16.00	Gold	A34890-ND	4.45	3.19	2.01	—	—	—	3-794620-8
	10	19.00	Tin	A33256-ND	3.32	2.38	1.50	—	—	—	4-794618-0
	10	19.00	Gold	A34897-ND	5.21	3.74	2.35	—	—	—	4-794620-0
	12	22.00	Tin	A33257-ND	3.80	2.73	1.71	—	—	—	4-794618-2
13	12	22.00	Gold	A34898-ND	5.99	4.30	—	—	—	—	4-794620-2
	14	25.00	Tin	A33258-ND	4.29	3.08	1.94	—	—	—	4-794618-4
	14	25.00	Gold	A34899-ND	6.75	4.85	3.04	—	—	—	4-794620-4
	16	28.00	Tin	A33259-ND	4.79	3.44	2.16	—	—	—	4-794618-6
	16	28.00	Gold	A34900-ND	7.54	5.41	3.40	—	—	—	4-794620-6
	18	31.00	Tin	A34896-ND	5.38	3.86	2.43	—	—	—	4-794618-8
	20	34.00	Tin	A33260-ND	5.99	4.30	2.70	—	—	—	5-794618-0
	20	34.00	Gold	A34910-ND	9.42	6.76	4.25	—	—	—	5-794620-0
	22	37.00	Tin	A33261-ND	6.59	4.73	2.97	—	—	—	5-794618-2
	24	40.00	Tin	A33262-ND	7.18	5.15	3.24	—	—	—	5-794618-4
	24	40.00	Gold	A33263-ND	11.33	8.12	5.10	—	—	—	5-794620-4
Right Angle Surface Mount Header — Dual Row, with Surface Mount Holddowns											
14	2	7.00	Tin	A30474CT-ND†	3.41	2.05	—	A30474TR-ND	150	248.26	794627-2
	2	7.00	Gold	A30486CT-ND†	5.45	3.28	—	A30486TR-ND	150	350.60	794629-2
	4	10.00	Tin	A30475CT-ND†	4.14	2.49	—	A30475TR-ND	150	301.64	794627-4
	4	10.00	Gold	A30487CT-ND†	6.80	4.09	—	A30487TR-ND	150	437.34	794629-4
	6	13.00	Tin	A30476CT-ND†	4.79	2.88	—	A30476TR-ND	150	349.24	794627-6
	6	13.00	Gold	A30488CT-ND†	8.05	4.84	—	—	—	—	794629-6
	10	19.00	Tin	A30478CT-ND†	7.69	4.62	—	A30478TR-ND	150	494.37	1-794627-0
	12	22.00	Tin	A30479CT-ND†	8.50	5.10	—	A30479TR-ND	150	618.94	1-794627-2
	12	22.00	Gold	A30491CT-ND†	12.10	7.27	—	A30491TR-ND	150	778.04	1-794629-2
	14	25.00	Gold	A30492CT-ND†	13.37	8.03	—	A30492TR-ND	150	859.32	1-794629-4
	16	28.00	Tin	A30481CT-ND†	10.12	6.07	—	A30481TR-ND	150	736.95	1-794627-6
	16	28.00	Gold	A30493CT-ND†	14.65	8.80	—	A30493TR-ND	150	942.02	1-794629-6
	18	31.00	Tin	A30482CT-ND†	9.38	5.63	—	A30482TR-ND	150	683.18	1-794627-8
	24	40.00	Tin	A30485CT-ND†	14.48	8.69	—	A30485TR-ND	150	930.70	2-794627-4
	24	40.00	Gold	A30497CT-ND†	21.29	12.78	—	A30497TR-ND	150	1368.85	2-794629-4
Right Angle Surface Mount Header — Dual Row, with Surface Mount Holddowns RoHS Compliant											
14	2	7.00	Tin	A33264CT-ND†	3.18	1.92	—	A33264TR-ND	150	232.02	3-794627-2
	2	7.00	Gold	A33273CT-ND†	4.15	2.50	—	A33273TR-ND	150	302.49	3-794629-2
	4	10.00	Tin	A33265CT-ND†	3.87	2.33	—	A33265TR-ND	150	281.91	3-794627-4
	4	10.00	Gold	A33274CT-ND†	5.18	3.11	—	A33274TR-ND	150	377.33	3-794629-4
	6	13.00	Tin	A33266CT-ND†	4.48	2.69	—	A33266TR-ND	150	326.39	3-794627-6
	6	13.00	Gold	A33275CT-ND†	6.13	3.68	—	A33275TR-ND	150	446.76	3-794629-6
	8	16.00	Tin	A33267CT-ND†	5.23	3.14	—	A33267TR-ND	150	381.17	3-794627-8
	8	16.00	Gold	A34891CT-ND†	7.28	4.37	—	A34891TR-ND	150	530.15	3-794629-8
	10	19.00	Tin	A33268CT-ND†	5.85	3.52	—	A33268TR-ND	150	426.53	4-794627-0
	12	22.00	Tin	A33269CT-ND†	6.47	3.89	—	A33269TR-ND	150	471.19	4-794627-2
	12	22.00	Gold	A33276CT-ND†	9.21	5.53	—	A33276TR-ND	150	671.28	4-794629-2
	14	25.00	Gold	A33277CT-ND†	10.18	6.11	—	A33277TR-ND	150	741.41	4-794629-4
	14	25.00	Tin	A34902CT-ND†	7.08	4.25	—	A34902TR-ND	450	1547.02	4-794627-4
	16	28.00	Tin	A33270CT-ND†	7.70	4.63	—	A33270TR-ND	150	561.03	4-794627-6
	16	28.00	Gold	A34904CT-ND†	11.16	6.70	—	A34904TR-ND	150	812.76	4-794629-6
	18	31.00	Tin	A33271CT-ND†	8.76	5.26	—	A33271TR-ND	150	638.49	4-794627-8
	24	40.00	Tin	A33272CT-ND†	11.02	6.62	—	A33272TR-ND	150	802.99	5-794627-4
	24	40.00	Gold	A34916CT-ND†	16.21	9.73	—	A34916TR-ND	150	1181.02	5-794629-4

Description	Digi-Key Part No.	Bulk Pricing 1	Bulk Pricing 100	Bulk Pricing 1,000	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Price	AMP Part No.
Receptacle Contacts, Crimp, Snap-in								
Tin, 20-24AWG	—	—	—	—	A30305TR-ND◆	15,000	42.72/M	794606-1
Tin, 20-24AWG	A30305-ND◆	.31	8.88	69.45	—	—	—	794610-1
Gold, 20-24AWG	—	—	—	—	A30306TR-ND	15,000	79.02/M	794606-3
Gold, 20-24AWG	A30306-ND	.17	8.28	64.74	—	—	—	794610-3
Gold, 20-24AWG	—	—	—	—	A32523TR-ND◆	15,000	73.96/M	1-794606-2
Gold, 20-24AWG	A32523-ND◆	.32	15.48	121.08	—	—	—	1-794610-2
Tin, 26-30AWG	—	—	—	—	A30309TR-ND◆	15,000	42.72/M	794607-1
Tin, 26-30AWG	A30309-ND◆	.31	8.88	69.45	—	—	—	794611-1
Gold, 26-30AWG	—	—	—	—	A30310TR-ND	15,000	79.02/M	794607-3
Gold, 26-30AWG	A30310-ND	.34	16.54	129.40	—	—	—	794611-3
Gold, 26-30AWG	—	—	—	—	A33279TR-ND◆	15,000	73.96/M	1-794607-2
Gold, 26-30AWG	A33279-ND◆	.32	15.48	121.08	—	—	—	1-794611-2
Plug Contacts, Crimp, Snap								
Tin, 20-24AWG	—	—	—	—	A30307TR-ND◆	10,000	42.72/M	1-794608-0
Tin, 20-24AWG	A30307-ND◆	.31	8.88	69.45	—	—	—	1-794612-0
Gold, 20-24AWG	—	—	—	—	A30308TR-ND	10,000	87.80/M	794608-3
Gold, 20-24AWG	A30308-ND	.34	16.54	129.40	—	—	—	794612-3
Gold, 20-24AWG	—	—	—	—	A33280TR-ND◆	10,000	73.96/M	1-794608-2
Gold, 20-24AWG	A33280-ND◆	.32	15.48	121.08	—	—	—	1-794612-2
Tin, 26-30AWG	—	—	—	—	A30311TR-ND	10,000	52.49/M	794609-1
Tin, 26-30AWG	A30311-ND	.33	9.49	74.24	—	—	—	794613-1
Tin, 26-30AWG	—	—	—	—	A33281TR-ND◆	10,000	42.72/M	1-794609-0
Tin, 26-30AWG	A33281-ND◆	.18	8.88	69.45	—	—	—	1-794613-0
Gold, 26-30AWG	—	—	—	—	A30312TR-ND	10,000	87.80/M	794609-3
Gold, 26-30AWG	A30312-ND	.34	16.54	129.40	—	—	—	794613-3
Gold, 26-30AWG	—	—	—	—	A33282TR-ND◆	10,000	73.96/M	1-794609-2
Gold, 26-30AWG	A33282-ND◆	.32	15.48	121.08	—	—	—	1-794613-2
Certi-Crimp Tool, 20-24AWG	A30498-ND	457.32/1			—	—	—	91501-1
Certi-Crimp II Tool, 26-30AWG	A30313-ND	457.32/1			—	—	—	91502-1

◆ ***RoHS Compliant*** † Cut Tape

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Mini-Universal MATE-N-LOK® and Sealed Mini-Universal MATE-N-LOK® Connectors

Mini-Universal MATE-N-LOK: Features: • Compact • Contacts are fully protected in the housings. Both pins and sockets can be used on the power supply wiring • Fully polarized to provide proper plug-to-cap mating incorporating a positive locking mechanism to prevent accidental disengagement of mated connectors. Also facilitates panel mounting • Contacts accept wire size range 30-16AWG • .163" (4.14mm) centerline spacing • Recognized under the component program of UL, Inc File No. E28476 • Certified by Canadian Standards Association File No. LR 38721 • Passed test by VDE under their Registration Number 3476/Continuous Surveillance. **Performance Characteristics:** • Dielectric Withstanding Voltage: 1.5KVAC between adjacent circuits • Insulation Resistance: 1000MΩ minimum between adjacent circuits • Voltage Rating: 600VAC or DC • Contact Retention: 8 pounds minimum per contact • Durability: 20 cycles, mating and unmating

Sealed Mini-Universal MATE-N-LOK: Features: • Compact • Wire-to-Wire and Wire-to-Board connector system that provides the advantages of using a proven product technology in a splash-proof environment. • Mates with all standard Mini-Universal MATE-N-LOCK connector housings • Uses existing Mini-Universal MATE-N-LOK application toolings and contacts • Product has been tested to IP Level 5/7 for .040" - .083" [1.02 - 2.11mm] insulation diameter wire **Performance Characteristics:** • Dielectric Withstanding Voltage: 1.5KVAC • Insulation Resistance: 1000MΩ maximum between adjacent circuits • Voltage Rating: 600VAC or DC • Current: 9A maximum • Contact Retention: 8 pounds minimum per contact • Durability: 20 cycles, mating and unmating

Fig. 1

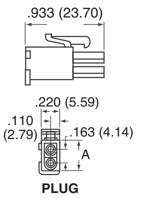

Fig. 1A

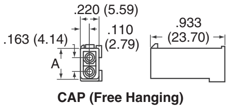

Fig. 1B

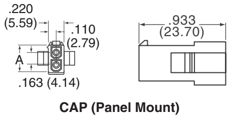

Fig. 2

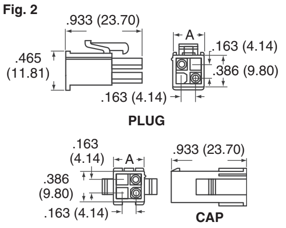

Fig. 3

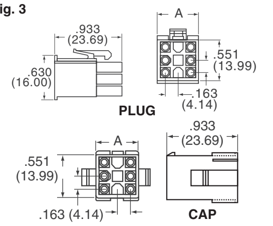

Fig. 4

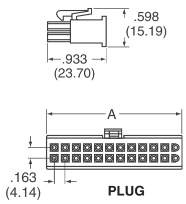

Mini-Universal MATE-N-LOK Connectors

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
.163 (4.14mm) Centerline Housing, UL94V-0 White Nylon							
1	1	Plug In-Line	—	A97680-ND	.25	.17	172164-1
	2		.386 (9.80)	A25587-ND	.52	.34	172165-1
	3		.551 (14.00)	A25588-ND	.58	.38	172166-1
1A	1	Cap In-Line	—	A97679-ND	.25	.17	172156-1
	2		.386 (9.80)	A25652-ND	.50	.33	172233-1
	3		.551 (14.00)	A25653-ND	.56	.36	172234-1
1B	2	Cap In-Line	.386 (9.80)	A25697-ND	.53	.35	172157-1
	3		.551 (14.00)	A25698-ND	.52	.34	172158-1
2	4	Plug Dual Row	.386 (9.80)	A25571-ND	.53	.34	172167-1
		Cap Dual Row		A25572-ND	.55	.36	172159-1
	6	Plug Dual Row	.551 (14.00)	A25573-ND	.72	.47	172168-1
		Cap Dual Row		A25574-ND	.73	.47	172160-1
3	9	Plug Matrix	.551 (14.00)	A25702-ND	.62	.40	172169-1
		Cap Matrix		A25699-ND	.82	.53	172161-1
	12	Plug Matrix	.716 (18.19)	A25703-ND	.89	.57	172170-1
		Cap Matrix		A25700-ND	.86	.55	172162-1
	15	Plug Matrix	.882 (22.40)	A25704-ND	1.15	.74	172171-1
		Cap Matrix		A25701-ND	1.09	.71	172163-1
4	8	Plug Dual Row	.714 (18.14)	A25575-ND	.64	.42	770579-1
	10		.877 (22.28)	A25576-ND	.72	.46	770580-1
	12		1.040 (26.42)	A25577-ND	.76	.50	770581-1
	14		1.203 (30.56)	A25578-ND	1.72	1.11	770582-1
	16		1.366 (34.70)	A25579-ND	1.20	.77	770583-1
	18	Plug Dual Row	1.529 (38.84)	A25580-ND	1.35	.87	770584-1
	20		1.692 (42.98)	A25581-ND	1.49	.96	770585-1
	22		1.855 (47.12)	A25582-ND	1.64	1.06	770586-1
	24		2.018 (51.26)	A25583-ND	1.79	1.16	770587-1
UL94V-2 Natural Nylon							
1	1	Plug In-Line	—	A97673-ND	.16	.11	172335-1
	2		.386 (9.8)	A97683-ND	.27	.18	172336-1
1A	1	Cap In-Line	—	A97672-ND	.13	.09	172327-1
	2		.386 (9.8)	A97684-ND	.28	.18	172343-1
1B	2	Cap In-Line	.386 (9.8)	A97681-ND	.24	.16	172328-1
2	6	Plug Dual Row	.551 (14)	A97674-ND	.41	.27	172339-1
		Cap Dual Row	.551 (14)	A97682-ND	.39	.26	172331-1

Sealed Mini-Universal MATE-N-LOK Connectors

Dimensions may vary slightly - see the Digi-Key® Website for manufacturer's drawings.

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
.163 (4.14mm) Centerline Housing, UL94V-0 White Nylon							
1	2	Plug In-Line	.386 (9.80)	A30709-ND	.69	.45	794894-1
1B	2	Cap In-Line	.386 (9.80)	A30714-ND	.81	.52	794896-1
2	4	Plug Dual Row	.486 (12.34)	A30710-ND	.69	.45	794805-1
	4	Cap Dual Row	.386 (9.80)	A30715-ND	.85	.55	794939-1
	6	Plug Dual Row	.651 (16.54)	A30711-ND	1.01	.65	794895-1
	6	Cap Dual Row	.386 (9.80)	A30716-ND	1.11	.72	794940-1
	8	Plug Dual Row	.814 (20.68)	A30712-ND	1.10	.71	794821-1
	8	Cap Dual Row	.714 (8.14)	A30717-ND	1.23	.79	794941-1
	10	Plug Dual Row	.977 (24.82)	A30713-ND	1.20	.77	794781-1
	10	Cap Dual Row	.877 (22.28)	A30718-ND	1.35	.87	794942-1
	16	Plug Dual Row	1.466 (37.24)	A32587-ND	2.12	1.37	794824-1
—	2	Interface Seal	—	A30719-ND	.56	.37	794772-2
	4		—	A30720-ND	.53	.35	794772-4
	6		—	A30721-ND	.63	.42	794772-6
	8		—	A30722-ND	.67	.44	794772-8
	10		—	A30723-ND	.70	.47	1-794772-0
	16		—	A32580-ND	1.01	.67	1-1586362-6
—	—	Cavity Plug Seal	—	A30724-ND	.30	.20	794995-1
—	—	Cavity Wire Seal	—	A30725-ND	.23	.16	794758-1
—	2	Gang Seal	—	A32581-ND	2.01	1.32	1586359-2
	4		—	A32582-ND	2.28	1.50	1586359-4
	6		—	A32583-ND	2.62	1.72	1586359-6
	8		—	A32584-ND	2.96	1.94	1586359-8
	10		—	A32585-ND	3.36	2.20	1-1586359-0
	16		—	A32586-ND	4.12	2.70	1-1586359-6

Mini-Universal MATE-N-LOK® Contacts

Specifications: • Material: Brass • Stock Thickness: .008" (.20mm) **Contact Plating:** A: Brass pre-tin plated B: Duplex Finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000100" (.00254mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Pin Connector

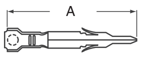

Socket Connector

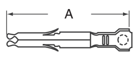

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		Digi-Key Part No.	Strip Tape and Reel		AMP Part No.
					1	100			500	1000		Qty.	Pricing	
Pin Contacts — Diameter .039" (0.99mm)														
30-26	.035 ~ .050 (.889 ~ 1.27)	A	.670 (17)	A25667-ND◆	.31	10.58	794059-1	A25667CT-ND◆	—	64.40	A25667TR-ND◆	10,000	34.78/M	770835-1
		B		A25671-ND	.59	38.05	794059-3	—	—	—	—	—	—	—
26-22	.047 ~ .069 (1.2 ~ 1.75)	A	.670 (17)	A25675-ND◆	.30	10.26	770985-1	A25675CT-ND◆	—	64.40	A25675TR-ND◆	7,000	38.64/M	770901-1
		B		A97676-ND◆	1.01	34.22	170363-3	—	—	—	—	—	—	—
		B		—	—	—	—	A97675CT-ND◆	175.93	319.88	A97675TR-ND◆	6,000	185.53/M	170359-3
		B		A97685-ND◆	.12	4.21	170359-1	—	—	—	—	—	—	—
22-18	.059 ~ .095 (1.5 ~ 2.4)	B	.670 (17)	A97677-ND◆	1.01	34.22	170364-3	—	—	—	—	—	—	—
		A		—	—	—	—	A97686CT-ND◆	34.03	61.88	A97686TR-ND◆	4,000	35.89/M	170360-1
22-18 or 22(2)	.059 ~ .110 or .133 max. (1.50 ~ 2.79 or 3.38)	A	.670 (17)	A25683-ND◆	.31	10.58	770987-1	A25683CT-ND◆	35.42	64.40	A25683TR-ND◆	4,500	38.64/M	770903-1
20-16 or 20(2)	.079 ~ .126 or .094(2) (2.01 ~ 3.20 or 2.79)	A	.689 (17.50)	A25691-ND◆	.30	6.44	171638-1	A25691CT-ND◆	—	57.85	A25691TR-ND◆	4,000	34.71/M	171636-1
16	.130 max. (3.3)	A	.634 (16.10)	—	—	—	—	A32599CT-ND◆	43.33	64.51	A32599TR-ND◆	7,000	49.62/M	1586537-1
Socket Contacts														
30-26	.035 ~ .050 (.889 ~ 1.27)	A	.659 (16.75)	A25668-ND◆	.19	6.42	794058-1	A25668CT-ND◆	—	64.40	A25668TR-ND◆	10,000	34.78/M	770834-1
		B		A25672-ND	.36	23.06	794058-3	A25672CT-ND	—	373.45	A25672TR-ND	10,000	224.07/M	770834-3
26-22	.047 ~ .069 (1.2 ~ 1.75)	A	.659 (16.75)	A25676-ND◆	.31	10.58	770986-1	A25676CT-ND◆	—	64.40	A25676TR-ND◆	7,000	38.64/M	770902-1
		B		A97678-ND◆	1.01	34.22	170365-1	—	—	—	—	—	—	—
		B		—	—	—	—	A97687CT-ND◆	30.55	55.55	A97687TR-ND◆	6,000	32.22/M	170361-1
		B		—	—	—	—	A97688CT-ND◆	175.93	319.88	A97688TR-ND◆	6,000	185.53/M	170361-3
22-18	.059 ~ .110 or .133 max.	A	.659 (16.75)	A25684-ND◆	.19	6.42	770988-1	A25684CT-ND◆	35.42	64.40	A25684TR-ND◆	4,500	38.64/M	770904-1
	.059 ~ .095 or .134 max.	B		A97690-ND◆	1.01	34.22	170366-3	—	—	—	—	—	—	—
	.059 ~ .095 or .134 max.	B		—	—	—	—	A97689CT-ND◆	175.93	319.88	A97689TR-ND◆	4,000	185.53/M	170362-3
20-16 or 20(2)	.079 ~ .126 (2.01 ~ 3.20 or 2.79)	A	.689 (17.50)	A25692-ND◆	.31	6.35	171639-1	A25692CT-ND◆	—	58.28	A25692TR-ND◆	4,000	34.97/M	171637-1
16	.130 max. (3.3)	A	.572 (14.53)	—	—	—	—	A32601CT-ND◆	44.15	65.72	A32601TR-ND◆	7,000	50.55/M	1586538-1

◆ *RoHS Compliant*

(Continued)

Tyco Electronics AMP
Authorized Distributor

Mini-Universal MATE-N-LOK® Contacts *(Cont.)*

Tools for Mini-Universal MATE-N-LOK®

Description	Digi-Key Part No.	Price Each 1	100	AMP Part No.	Description	Digi-Key Part No.	Price Each	AMP Part No.
Keying Plugs and Tools for Mini-Universal MATE-N-LOK								
Keying Plug 94V-0	A25693-ND◆	.31	.14	174670-1	PRO-CRIMPER II/III Repair Kit	A34584-ND	51.00	679221-1
Contact Extraction Tool	A25695-ND	19.28	—	189727-1	—	—	—	—
Contact Insertion Tool	A1444-ND	17.06	—	455830-1	—	—	—	—
PRO-CRIMPER III Hand Tool, w/Die, 30-26AWG	A9819-ND	186.35	—	90870-1	Die Set for PRO-CRIMPER III 30-26AWG	A9956-ND	140.90	90870-2
PRO-CRIMPER III Hand Tool, w/Die, 26-22AWG	A25584-ND	145.50	—	90758-1	Die Set for PRO-CRIMPER III 26-22AWG	A30039-ND	111.00	90758-2
PRO-CRIMPER III Hand Tool, w/Die, 22-18 or 22(2)AWG	A25585-ND	145.50	—	90759-1	Die Set for PRO-CRIMPER III 22-18AWG	A30040-ND	111.00	90759-2
PRO-CRIMPER III Hand Tool, w/Die, 20-16 or 20(2)AWG	A25586-ND	218.16	—	90760-1	—	—	—	—

◆ ***RoHS Compliant***

Tyco Electronics AMP
Authorized Distributor

Mini-Universal MATE-N-LOK2® Connectors

RoHS COMPLIANT

Mini-Universal MATE-N-LOK2: Features: • Pins and sockets can be intermixed in the same housing although they cannot be intermixed with standard Mini Universal Mate-N-Lok housings • Contacts accept wire size range 30-16AWG • .163” (4.14mm) centerline spacing • Recognized under the component program of UL Inc. File No. E28476

Performance Characteristics: • Dielectric Withstanding Voltage: 1500VAC or DC between adjacent circuits at sea level • Insulation Resistance: 100MΩ minimum between adjacent circuits • Voltage Rating: 600VAC or DC • Contact Retention: 20 pounds minimum per contact • Durability: 25 cycles, mating and unmating • Current Rating: Up to 10.5 amps per circuit: 2 position

Mini-Universal MATE-N-LOK2 Connectors

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
.163 (4.14mm) Centerline Housing - Free Hanging, UL94V-0 White Nylon							
1	2	Plug, In-Line Cap, In-Line	—	A25654-ND A25655-ND	.68 .69	.44 .45	794184-1 794185-1
	3	Plug, In-Line Cap, In-Line	—	A25656-ND A25657-ND	.71 .77	.46 .50	794186-1 794187-1
2	4	Plug, Dual Row Cap, Dual Row	.571 (14.50)	A25658-ND A25659-ND	.80 .81	.52 .53	794188-1 794189-1
	6	Plug, Dual Row Cap, Dual Row	.736 (18.70)	A25660-ND A25661-ND	.72 1.34	.47 .86	794190-1 794191-1
3	8	Plug, Dual Row Cap, Dual Row	.899 (22.24)	A25662-ND A25705-ND	1.25 1.14	.80 .74	794192-1 794193-1
	10	Plug, Dual Row Cap, Dual Row	1.062 (26.97)	A25663-ND A25708-ND	1.30 1.69	.84 1.09	794196-1 794197-1
	12	Plug, Dual Row Cap, Dual Row	1.225 (31.12)	A25711-ND A25712-ND	1.11 1.28	.72 .83	794198-1 794199-1
	14	Plug, Dual Row Cap, Dual Row	1.388 (35.26)	A25664-ND A25713-ND	1.29 1.27	.83 .82	794202-1 794203-1
	16	Plug, Dual Row Cap, Dual Row	1.551 (39.40)	A25716-ND A25717-ND	1.39 1.35	.90 .87	794206-1 794207-1
	18	Plug, Dual Row Cap, Dual Row	1.714 (43.54)	A25718-ND A25719-ND	1.57 1.81	1.01 1.17	794208-1 794209-1
	20	Plug, Dual Row Cap, Dual Row	1.877 (47.68)	A25720-ND A25721-ND	1.75 2.01	1.12 1.30	794210-1 794211-1
	22	Plug, Dual Row Cap, Dual Row	2.040 (51.82)	A25722-ND A25723-ND	1.92 2.22	1.24 1.43	794212-1 794213-1
	24	Plug, Dual Row Cap, Dual Row	2.203 (55.96)	A25724-ND A25725-ND	1.75 2.42	1.12 1.56	794214-1 794215-1
4	9	Plug, Matrix Cap, Matrix	.736 (18.69)	A25706-ND A25707-ND	1.42 1.50	.92 .97	794194-1 794195-1
	12	Plug, Matrix Cap, Matrix	.901 (22.89)	A25709-ND A25710-ND	1.30 1.56	.84 1.01	794200-1 794201-1
	15	Plug, Matrix Cap, Matrix	1.067 (27.10)	A25714-ND A25715-ND	3.43 1.59	2.20 1.03	794204-1 794205-1

Fig. 1

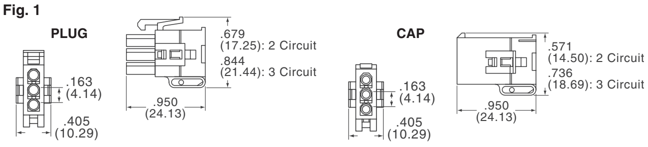

Fig. 2

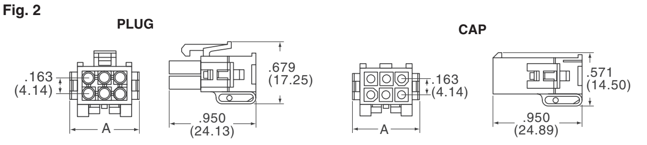

Fig. 3

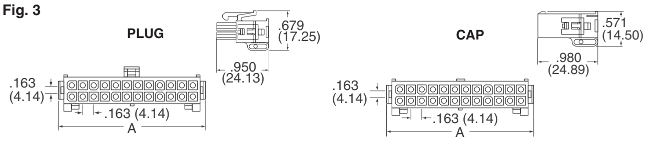

Fig. 4

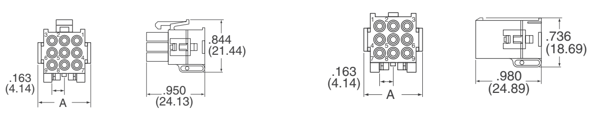

Mini-Universal MATE-N-LOK2® Contacts

Specifications: • Material: Brass • Stock Thickness: .010” (.25mm) **Contact Plating:** A: Brass pre-tin plated B: Duplex Finish - Plated with .000030” (.000762mm) minimum gold in mating area and .000100” (.00254mm) minimum tin-lead in crimp area over .000050” (.00127mm) minimum nickel underplate on entire contact

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	100	AMP Part No.
Pin Contacts — Diameter .039” (0.99mm)						
30-26	.035 ~ .050 (.889 ~ 1.27)	A B B	A28800-ND◆ A28801-ND A33326-ND◆	.31 .59 .55	10.58 38.05 35.60	794224-1 794224-3 1-794224-0
26-22	.047 ~ .069 (1.19 ~ 1.75)	A B B	A28802-ND◆ A28803-ND A33327-ND◆	.31 .59 .55	10.58 38.05 35.60	794226-1 794226-3 1-794226-0
22-18	.059 ~ .110 (1.50 ~ 2.79)	A B	A28804-ND◆ A32446-ND◆	.19 .55	6.42 35.60	794228-1 1-794228-0
20-16	.079 ~ .126 (2.01 ~ 3.20)	A B B	A28806-ND◆ A28807-ND A34924-ND◆	.32 .59 .55	13.75 38.05 35.60	794230-1 794230-3 1-794230-0
Socket Contacts — RoHS Compliant						
30-26	.035 ~ .050 (.889 ~ 1.27)	A B	A28808-ND A34923-ND	.31 .55	10.58 35.60	794225-1 1-794225-0

Pin Connector

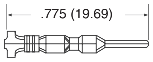

Socket Connector

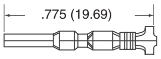

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	100	AMP Part No.
26-22	.047 ~ .069 (1.19 ~ 1.75)	A B B	A28810-ND◆ A28811-ND A33328-ND◆	.31 .59 .55	10.58 38.05 35.60	794227-1 794227-3 1-794227-0
22-18	.059 ~ .110 (1.50 ~ 2.79)	A B B	A28812-ND◆ A28813-ND A33329-ND◆	.31 .59 .55	10.58 38.05 35.60	794229-1 794229-3 1-794229-0
20-16	.079 ~ .126 (2.01 ~ 3.20)	A B B	A28814-ND◆ A28815-ND A32447-ND◆	.32 .36 .55	13.75 23.06 35.60	794231-1 794231-3 1-794231-0

◆ ***RoHS Compliant***

Tools for Mini-Universal MATE-N-LOK2®

Description	Digi-Key Part No.	Price Each	AMP Part No.
PRO-CRIMPER III with Die Set, 30-26 AWG	A9819-ND	186.35	90870-1
PRO-CRIMPER III with Die Set, 26-22 AWG	A25584-ND	145.50	90758-1
PRO-CRIMPER III with Die Set, 22-18 AWG	A25585-ND	145.50	90759-1
PRO-CRIMPER III with Die Set, 20-16 AWG	A30726-ND	566.61	58707-1
Certi-Crimp Hand Tool, 22-18 AWG	A9916-ND	468.14	91522-1
Straight Action Hand Tool, 26-22 AWG	A32490-ND	491.31	91529-1
Straight Action Hand Tool, 20-16 AWG	A32491-ND	764.78	91594-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
Die Set, 30-24 AWG (use with A9996-ND)	A9956-ND	140.90	90870-2
Die Set, 26-22 AWG (use with A9996-ND)	A30039-ND	111.00	90758-2
Die Set, 22-18 AWG (use with A9996-ND)	A30040-ND	111.00	90759-2
Die Set, 20-16 AWG (use with A9996-ND)	A30727-ND	499.95	58707-2
PRO-CRIMPER III Hand Tool (without Die Set)	A9996-ND	66.00	354940-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	51.00	679221-1

Mini-Universal MATE-N-LOK® and MATE-N-LOK2® Headers

Specifications:
• Contact Material: Brass • Solder Tail Diameter: .039" (1.00mm) • Housing: UL94V-0 White Nylon **Contact Plating:** A: Tin-Lead Finish- Plated with .000150" (.00381mm) minimum tin-lead over .000050" (.00127mm) minimum nickel underplate on entire contact. B: Duplex Finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000100" (.00254mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Fig. 1

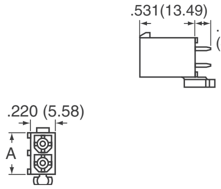

Fig. 2

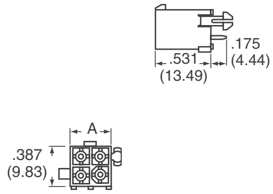

Fig. 3

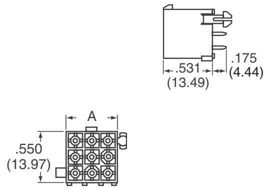

Fig. 4

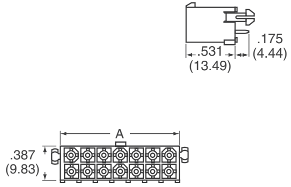

Fig. 5

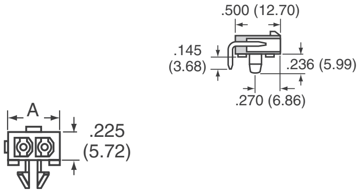

Fig. 6

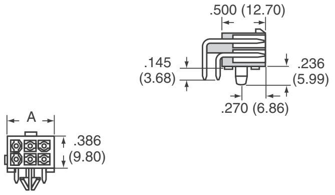

Fig. 7

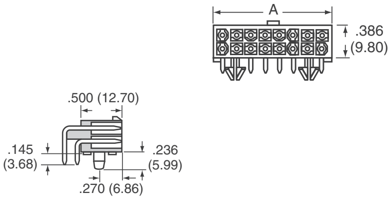

Fig.	No. of Circuits	Type	Contact Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
						1	100	
.163 (4.14) Centerline Vertical PC Board Pin Headers, w/Drain Holes (unless noted)								
1	2	In-Line	A	.387 (9.83)	A32448-ND◆	.77	.49	1-770166-0
			A		A25590-ND†	.89	.64	770872-1
			A		A32449-ND†◆	.83	.53	1-770872-0
			B		A32450-ND◆	1.28	.81	1-770166-1
			B		A33330-ND†◆	1.42	1.03	1-770872-1
	3	In-Line	A	.550 (13.97)	A32451-ND◆	.83	.53	1-770170-0
			A		A32452-ND†◆	1.02	.65	1-770873-0
			B		A25595-ND	2.08	1.50	770170-2
			B		A33331-ND◆	1.95	1.40	1-770170-1
			B		A25596-ND†	2.10	1.51	770873-2
			B		A33332-ND†◆	1.96	1.41	1-770873-1
2	4	Dual Row	A	.387 (9.83)	A32453-ND◆	.94	.60	1-770174-0
			A		A32454-ND†◆	1.26	.80	1-770874-0
			B		A32455-ND◆	1.58	1.01	1-770174-1
			B		A25601-ND†	2.56	1.84	770874-2
			B		A33333-ND†◆	2.39	1.72	1-770874-1
	6	Dual Row	A	.550 (13.97)	A32456-ND◆	.97	.62	1-770178-0
			A		A32589-ND◆	1.60	1.15	1-770875-0
			B		A32457-ND◆	2.25	1.43	1-770178-1
			B		A32590-ND◆	3.41	2.45	1-770875-1
	8	Dual Row	A	.713 (18.11)	A32591-ND◆	1.94	1.40	1-794073-0
			B		A32592-ND◆	4.41	3.17	1-794073-1
			A		A32458-ND◆	1.63	1.04	1-794065-0
			B		A32459-ND◆	2.92	1.86	1-794065-1
	10	Dual Row	A	.877 (22.28)	A32460-ND◆	1.83	1.17	1-770743-0
			A		A32593-ND◆	2.16	1.55	1-770858-0
			B		A32461-ND◆	3.56	2.26	1-770743-1
			B		A32594-ND◆	5.36	3.84	1-770858-1
	12	Dual Row	A	1.039 (26.39)	A25610-ND	1.87	1.35	794066-1
			A		A33334-ND◆	1.75	1.26	1-794066-0
			A		A32462-ND†◆	2.16	1.37	1-770621-0
			B		A25612-ND	4.52	3.24	794066-2
			B		A33335-ND◆	4.23	3.03	1-794066-1
3	9	Matrix	A	.551 (14.00)	A32463-ND◆	1.68	1.07	1-770182-0
			B		A32464-ND◆	4.92	3.12	1-770182-1
	12	Matrix	A	.713 (18.11)	A32465-ND◆	2.07	1.32	1-770186-0
			B		A32466-ND◆	6.36	4.04	1-770186-1
	15	Matrix	A	.877 (22.28)	A32467-ND◆	2.49	1.58	1-770190-0
			B		A25618-ND	10.21	7.32	770190-2
			B		A33336-ND◆	7.89	5.66	1-770190-1
4	14	Dual Row	A	1.202 (30.53)	A32468-ND◆	1.78	1.13	1-794067-0
			A		A32597-ND◆	2.73	1.96	1-794074-0
			B		A25616-ND	5.27	3.78	794067-2
			B		A34925-ND◆	5.54	3.97	1-794067-1
			B		A32598-ND◆	7.29	5.23	1-794074-1
	16	Dual Row	A	1.365 (34.67)	A32469-ND◆	1.98	1.26	1-794068-0
			A		A32595-ND◆	3.01	2.16	1-794075-0
			B		A25620-ND	5.83	4.18	794068-2
			B		A33337-ND◆	5.46	3.92	1-794068-1
			B		A32596-ND◆	8.25	5.92	1-794075-1
4	18	Dual Row	A	1.528 (38.81)	A25621-ND	2.38	1.71	794069-1
			A		A33338-ND◆	2.23	1.60	1-794069-0
			B		A25622-ND	6.62	4.75	794069-2
			B		A33339-ND◆	6.20	4.45	1-794069-1
	20	Dual Row	A	1.691 (42.95)	A25623-ND	2.64	1.90	794070-1
			B		A33340-ND◆	2.47	1.78	1-794070-0
			B		A25624-ND	7.37	5.29	794070-2
			B		A33341-ND◆	6.90	4.95	1-794070-1
	22	Dual Row	A	1.854 (47.09)	A25625-ND	2.94	2.11	794071-1
			A		A33342-ND◆	2.75	1.97	1-794071-0
			B		A25626-ND	8.99	6.45	794071-2
			B		A33343-ND◆	8.41	6.04	1-794071-1
	24	Dual Row	A	2.017 (51.23)	A32470-ND◆	3.02	1.92	1-794072-0
			B		A25628-ND	9.93	7.12	794072-2
			B		A33344-ND◆	9.29	6.67	1-794072-1
.163 (4.14) Centerline PC Board Pin Headers, Right Angle with Board Lock								
5	2	In-Line	A	.388 (9.86)	A32471-ND◆	.99	.63	1-770966-0
			B		A32472-ND◆	2.07	1.31	1-770966-1
	3	In-Line	A	.551 (14.00)	A25631-ND	2.12	1.35	770967-1
			A		A32473-ND◆	1.44	.92	1-770967-0
			B		A25632-ND	3.64	2.62	770967-2
			B		A33345-ND◆	3.41	2.45	1-770967-1
6	4	Dual Row	A	.388 (9.86)	A32474-ND◆	1.04	.66	1-770968-0
			B		A25634-ND	3.74	2.69	770968-2
			B		A33346-ND◆	3.50	2.52	1-770968-1
	6	Dual Row	A	.551 (14.00)	A32475-ND◆	1.46	.93	1-770969-0
			B		A32476-ND◆	4.73	3.00	1-770969-1
	8	Dual Row	A	.714 (18.14)	A32477-ND◆	2.03	1.29	1-770970-0
			B		A32478-ND◆	6.23	3.95	1-770970-1
	10	Dual Row	A	.877 (22.28)	A32479-ND◆	2.37	1.50	1-770971-0
			B		A25640-ND	8.27	5.93	770971-2
			B		A33347-ND◆	7.74	5.55	1-770971-1
	12	Dual Row	A	1.040 (26.42)	A32480-ND◆	2.71	1.72	1-770972-0
			B		A32481-ND◆	7.94	5.04	1-770972-1
7	14	Dual Row	A	1.203 (30.56)	A32482-ND◆	4.01	2.55	1-770973-0
			B		A32483-ND◆	10.74	6.81	1-770973-1
	16	Dual Row	A	1.366 (34.70)	A32484-ND◆	2.67	1.69	1-770974-0
			B		A25646-ND	13.09	9.39	770974-2
			B		A33348-ND◆	12.25	8.78	1-770974-1
	18	Dual Row	A	1.529 (38.84)	A32485-ND◆	4.50	2.85	1-794105-0
	20	Dual Row	A	1.692 (42.98)	A25648-ND	4.52	3.25	794106-1
			A		A33349-ND◆	4.23	3.04	1-794106-0
			B		A25649-ND	16.74	12.00	794106-2
	22	Dual Row	A	1.855 (47.12)	A25696-ND	5.88	4.22	794107-1
			A		A33351-ND◆	5.50	3.95	1-794107-0
	24	Dual Row	A	2.018 (51.26)	A32486-ND◆	6.00	3.80	1-794108-0
			B		A25651-ND	20.09	14.40	794108-2
			B		A33352-ND◆	18.80	13.48	1-794108-1

† These part numbers are without drain holes. ◆ ***RoHS Compliant***

Universal MATE-N-LOK® Connectors - Soft Shell

Dim. in inch (mm)

Fig. 1

- Pins and sockets can be intermixed in the same housing
- Positive polarization
- Pin or socket contact can be hot
- Positive locking housings
- Removable, crimp snap-in contacts
- Low contact mating force
- Dual locking lances provide optimum contact stability
- Panel-mount or free-hanging
- Harness to PC board capability using pin or socket header assemblies

Features:
- Rated to 600V
- Insulation capacity to .200" (5.08 mm) diameter
- Contacts are on .250" (6.35 mm) centerline spacing

Fig. 2

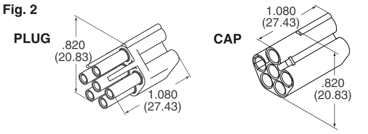

- Circular design allows the connector to pass through 7/8 inch knock-out holes in electrical fixtures and boxes

Features:
- Voltage: 600VAC or DC
- Current: 20A maximum per UL-1977

Fig. 3

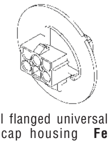

- Special flanged universal MATE-N-LOK cap housing

Features:
- Voltage: 600V
- Current: 15.5A maximum

Fig. 4

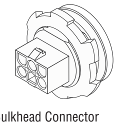

- Sealed Bulkhead Connector

Features:
- Locknut: Metal
- Housing: Nylon, Flame Retardant, UL94-VO
- O-Ring: Neoprene

Fig. 5 — Test Connectors

- Mating Connectors: Housings and headers having the same number of circuits
- Pins and sockets can be intermixed in the same housing
- Test connector housings are of the same configuration as standard housings
- Test probes have 5A max. current rating
- 1,000,000 cycles

A — 2-5 Circuits

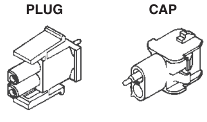

B — 6 Circuits

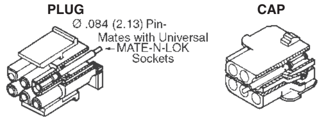

Fig. 6

- Economical splash proof and immersible sealed connector system
- One interface seal and two wire seals required per mated assembly

Material: Silicone rubber, blue color

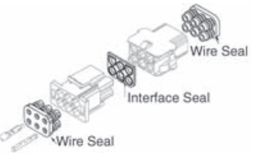

Connectors

Fig.	No. of Circuits	Description	Digi-Key Part No.	Pricing		AMP Part No.
				1	100	
Universal MATE-N-LOK UL94V-2 Connectors Nylon, Natural Color (Contacts Sold Separately)						
1	1	Plug In-Line	A14270-ND	.28	9.68	1-350867-0
		Cap In-Line	A14271-ND	.29	10.21	770421-1
	2	Plug In-Line	A1448-ND	.31	17.31	1-480698-0
		Cap In-Line	A1449-ND	.30	15.80	1-480699-0
	3	Plug In-Line	A1450-ND	.29	16.53	1-480700-0
		Cap In-Line	A1451-ND	.31	17.33	1-480701-0
	4	Plug In-Line	A1452-ND	.31	17.77	1-480702-0
		Cap In-Line	A1453-ND	.31	17.58	1-480703-0
	5	Plug In-Line	A1454-ND	.34	22.07	1-480763-0
		Cap In-Line	A1455-ND	.39	24.92	1-480764-0
	6	Plug Matrix	A1456-ND	.34	21.52	1-480704-0
		Cap Matrix	A1457-ND	.32	20.52	1-480705-0
		Plug In-Line	A14272-ND	.68	43.82	640585-1
		Cap In-Line	A14273-ND	1.25	80.04	926307-1
	8	Plug In-Line	A14274-ND	1.03	65.89	640586-1
		Cap In-Line	A14275-ND	2.33	149.45	926308-1
	9	Plug Matrix	A1458-ND	.38	24.43	1-480706-0
		Cap Matrix	A1459-ND	.34	21.98	1-480707-0
	12	Plug Matrix	A1460-ND	.44	28.25	1-480708-0
		Cap Matrix	A1461-ND	.39	24.91	1-480709-0
	15	Plug Matrix	A1462-ND†	.64	41.00	1-480710-0
		Cap Matrix	A1463-ND	.57	36.58	1-480711-0
2	6	Plug Circular	A30576-ND	.78	56.01	794911-1
		Cap Circular	A30577-ND	.78	56.01	794912-1
Universal MATE-N-LOK UL94V-0 Connectors Nylon, White Color (Contacts Sold Separately)						
1	1	Plug In-Line	A14276-ND	.38	24.57	350865-1
		Cap In-Line	A14277-ND	.38	24.57	350866-1
	2	Plug In-Line	A14278-ND	.37	23.94	350777-1
		Cap In-Line	A14279-ND	.53	33.87	350778-1
	3	Plug In-Line	A14280-ND	.45	28.67	350766-1
		Cap In-Line	A14281-ND	.54	34.56	350767-1
	4	Plug In-Line	A14282-ND	.47	29.91	350779-1
		Cap In-Line	A14283-ND	.59	37.87	350780-1
	5	Plug In-Line	A14284-ND	.50	31.95	350809-1
		Cap In-Line	A14285-ND	.60	38.61	350810-1
	6	Plug In-Line	A14286-ND	1.06	67.90	640581-1
		Cap In-Line	A14287-ND‡	2.75	176.49	926307-3
		Plug Matrix	A14288-ND	.67	42.91	350715-1
		Cap Matrix	A14289-ND	.59	37.81	350781-1
	8	Plug In-Line	A14290-ND	.90	58.02	640582-1
		Cap In-Line	A14291-ND‡	3.32	212.94	926308-3
	9	Plug Matrix	A14292-ND	.58	37.21	350720-1
		Cap Matrix	A14293-ND	.72	45.92	350782-1
	12	Plug Matrix	A14294-ND	.74	47.52	350735-1
		Cap Matrix	A14295-ND	.88	56.26	350783-1
	15	Plug Matrix	A14296-ND	.95	61.05	350736-1
		Cap Matrix	A14297-ND	1.46	93.50	350784-1
Universal MATE-N-LOK UL94V-2 Connectors Nylon, Red Color (Contacts Sold Separately)						
1	2	Plug In-Line	A97536-ND	.49	32.58	1-480698-2
		Cap In-Line	A97535-ND	.45	29.78	1-480699-2
	3	Plug In-Line	A97511-ND	.50	33.07	1-480700-2
		Cap In-Line	A97510-ND	.49	32.66	1-480701-2
	4	Plug In-Line	A97513-ND	.54	36.18	1-480702-2
		Cap In-Line	A97512-ND	.50	33.15	1-480703-2
1	5	Plug In-Line	A97515-ND	1.54	102.56	480763-2
		Cap In-Line	A97514-ND	1.94	129.24	480764-2
	6	Plug Matrix	A97537-ND	.61	40.56	1-480704-2
		Cap Matrix	A97516-ND	.58	38.67	1-480705-2
	9	Plug Matrix	A97518-ND	.69	46.04	1-480706-2
		Cap Matrix	A97517-ND	.67	44.76	1-480707-2
	12	Plug Matrix	A97538-ND	.80	53.23	1-480708-2
		Cap Matrix	A97519-ND	.70	46.94	1-480709-2
	15	Plug Matrix	A97521-ND	1.16	77.27	1-480710-2
		Cap Matrix	A97520-ND	1.03	68.94	1-480711-2
Universal MATE-N-LOK UL94V-2 Connectors Nylon, Black Color (Contacts Sold Separately)						
1	2	Plug In-Line	A97539-ND	.49	32.58	1-480698-9
		Cap In-Line	A97522-ND	.45	29.78	1-480699-9
	3	Plug In-Line	A97524-ND	.50	33.07	1-480700-9
		Cap In-Line	A97523-ND	.49	32.66	1-480701-9
	4	Plug In-Line	A97525-ND	.50	33.49	1-480702-9
		Cap In-Line	A97540-ND	.50	33.15	1-480703-9
	5	Plug In-Line	A97527-ND	.53	35.18	480763-9
		Cap In-Line	A97526-ND	.59	39.55	480764-9
	6	Plug Matrix	A97529-ND	.61	40.56	1-480704-9
		Cap Matrix	A97528-ND	.58	38.67	1-480705-9
	9	Plug Matrix	A97531-ND	.75	49.73	1-480706-9
		Cap Matrix	A97530-ND	.62	41.43	1-480707-9
	12	Plug Matrix	A97533-ND	.80	53.23	1-480708-9
		Cap Matrix	A97532-ND	.70	46.94	1-480709-9
	15	Plug Matrix	A97541-ND	1.32	87.87	1-480710-9
		Cap Matrix	A97534-ND	1.03	68.94	1-480711-9
Universal MATE-N-LOK UL94V-0 Flanged Cap Housings Nylon, White Color (Contacts Sold Separately)						
3	6	Matrix	A30555-ND	1.56	126.00	794760-1
	9	Matrix	A30556-ND	1.88	152.06	794761-1
	12	Matrix	A30557-ND	2.27	183.51	794762-1
Universal MATE-N-LOK UL94V-2 Flanged Cap Housings Nylon, Natural Color (Contacts Sold Separately)						
3	6	Matrix	A30558-ND	1.35	109.57	794714-1
	9	Matrix	A30559-ND	1.63	132.23	794715-1
	12	Matrix	A30560-ND	1.97	159.57	794716-1
Universal MATE-N-LOK UL94V-2 Sealed Bulkhead Cap Nylon, Natural Color (Contacts Sold Separately)						
4	4	Cap In-Line	A32535-ND	2.81	227.80	1604256-1
	6	Cap Matrix	A32536-ND	2.90	234.60	1604210-1
	9	Cap Matrix	A32537-ND	3.02	244.80	1604254-1
	12	Cap Matrix	A32538-ND	3.57	289.00	1604941-1
Keying Plug, UL94V-0			A14305-ND	.25	20.43	1-640415-0
Keying Plug, UL94V-2			A14304-ND	.24	19.62	1-640415-1
Test Connectors (with spring loaded contacts)						
5A	2	Plug In-Line	A25328-ND	48.87	3134.80	350848-2
		Cap In-Line	A25331-ND	46.93	3010.70	350849-2
	3	Plug In-Line	A25731-ND	68.90	4420.00	350848-3
		Cap In-Line	A25732-ND	69.91	4484.60	350849-3
	4	Plug In-Line	A25330-ND	90.76	5822.50	350848-4
		Cap In-Line	A25329-ND	90.82	5825.90	350849-4
	5	Plug In-Line	A25733-ND	113.08	7253.90	350848-5
		Cap In-Line	A25734-ND	113.18	7260.70	350849-5
5B	6	Plug Matrix	A25735-ND	135.92	8719.30	350848-6
		Cap Matrix	A25736-ND	135.97	8722.70	350849-6

† Black ‡ Brick Red

Splash Proof Seals

Fig.	No. of Circuits	Interface Seal Digi-Key Part No.	Price Each		AMP Part No.	Wire Seal Digi-Key Part No.	Price Each		AMP Part No.
			1	100			1	100	
6	2	A25390-ND	.27	.22	794269-1	A25397-ND	.35	.29	794270-1
	3	A25391-ND	.37	.30	794271-1	A25398-ND	.48	.39	794272-1
	4	A25392-ND	.67	.54	794273-1	A25399-ND	.98	.80	794274-1
	6	A25393-ND	.54	.44	794275-1	A25400-ND	.80	.65	794276-1
	9	A25394-ND	.88	.72	794277-1	A25401-ND	1.24	1.01	794278-1
	12	A25395-ND	1.22	.99	794279-1	A25402-ND	2.26	1.83	794280-1
	15	A25396-ND	2.05	1.67	794281-1	A25403-ND	2.94	2.38	794282-1
Keying Plug, Nylon, UL94V-0						A25156-ND	5.66/10		770377-1

(Continued)

Contacts

Contact Plating:

A: Phosphor Bronze pre-tin plated

B: Brass pre-tin plated

C: Gold Finish: Plated with .000030” (.000762mm) minimum gold in mating area and inside wire barrel over .000050” (.00127mm) minimum nickel under-plate on entire contact

D: Select Gold Finish: Plated with .000030” (.000762mm) minimum gold in mating area over .000050” (.00127mm) minimum nickel under-plate on entire contact

Pin Contact

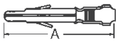

Socket Contact

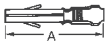

Split Pin Contact

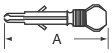

Programmable Contact

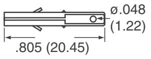

Wire Size (AWG)	Ins. Dia. Inch (mm)	Material	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AMP Part No.
						10	100			100	500	1,000		Qty.	Pricing	
Pin Contacts																
30-26	.032 - .057 (.813-1.45)	Brass	B	.790 (20.06)	A25405-ND	1.50	10.11	770672-1	A25405CT-ND	—	—	93.23	A25405TR-ND	8,000	55.94/M	350924-1
		Phos. Brz.	C		A25353-ND	15.00	100.89	770672-6	—	—	—	—	—	—	—	—
24-18	.040 - .100 (1.02-2.54)	Brass	B	.790 (20.06)	A14298-ND	1.14	7.69	350690-1	—	—	—	—	—	—	—	—
		Brass	C		A14299-ND	9.54	64.21	350690-2	A14299CT-ND	—	—	671.85	A14299TR-ND	7,000	403.11/M	350561-2
		Brass	D		A25359-ND	5.81	39.09	350690-7	A25359CT-ND	—	—	332.45	A25359TR-ND	7,000	199.47/M	350561-7
		Phos. Brz.	A		A25362-ND	1.48	9.98	350690-3	A25362CT-ND	—	—	69.88	A25362TR-ND	7,000	41.93/M	350561-3
20-14	.060 - .130 (1.52-3.30)	Brass	B	.790 (20.06)	A14300-ND§	1.12	7.52	350547-1	A97892CT-ND ***NEW!***	4.49	19.10	28.43	A97892TR-ND ***NEW!***	5,000	21.87/M	350218-1
		Brass	C		A14301-ND§	9.47	63.70	350547-2	A14301CT-ND§	—	—	671.85	A14301TR-ND§	5,000	403.11/M	350218-2
		Silver	D		A25341-ND§	5.82	39.17	350547-7	—	—	—	—	—	—	—	—
		Phos. Brz.	A		A25343-ND§	1.52	10.20	350547-3	A97893CT-ND ***NEW!***	9.10	38.70	57.60	A97893TR-ND ***NEW!***	5,000	44.31/M	350218-3
		Phos. Brz.	D		A25346-ND§	11.52	77.52	350547-6	A25346CT-ND§	—	—	507.10	A25346TR-ND§	5,000	304.26/M	350218-6
	.130 - .200 (3.30-5.08)	Brass	B	.810 (20.57)	A14303-ND	1.40	9.45	350552-1	—	—	—	—	—	—	—	—
		Brass	C		A25368-ND	9.26	62.28	350552-2	A25368CT-ND	—	385.04	700.08	A25368TR-ND	2,500	560.06/M	350538-2
		Brass	D		A25371-ND	7.53	50.63	350552-7	A25371CT-ND	—	254.11	462.03	A25371TR-ND	2,500	369.62/M	350538-7
		Phos. Brz.	A		A25374-ND	2.07	13.94	350552-3	A25374CT-ND	—	58.77	106.85	A25374TR-ND	2,500	85.48/M	350538-3
		Phos. Brz.	D		A25408-ND	14.02	94.29	350552-6	A25408CT-ND	—	362.51	659.10	A25408TR-ND	2,500	527.28/M	350538-6
22-18	.060 - .094 (1.50-2.40)	Brass	B	.634 (16.10)	—	—	—	—	A32600CT-ND	10.19	43.33	64.51	A32600TR-ND	7,000	49.62/M	794440-1
18-14	.130 - .200 (3.30-5.08)	Brass	B	.810 (20.57)	—	—	—	—	A25378CT-ND	7.75	32.96	58.62	A25378TR-ND	2,500	50.32/M	350873-1
		Phos. Brz.	A		A25380-ND	1.94	13.02	350918-3	—	—	—	—	—	—	—	—
12-10	.200 max. (5.08)	Phos. Brz.	A	.810 (20.57)	A25382-ND▲	3.11	20.93	640309-3	—	—	—	—	—	—	—	—
			D		A25386-ND▲	13.96	93.93	640309-6	A25386CT-ND▲	—	—	755.73	A25386TR-ND▲	3,000	604.58/M	350922-6
Socket Contacts																
30-26	.032 - .057 (.813-1.45)	Brass	B	.760 (19.30)	A25352-ND	1.70	11.43	770673-1	A25352CT-ND	—	—	64.88	A25352TR-ND	8,000	38.93/M	350925-1
24-18	.040 - .100 (1.02-2.54)	Brass	B	.760 (19.30)	—	—	—	—	A97891CT-ND◊ ***NEW!***	4.43	18.85	28.06	A97891TR-ND◊ ***NEW!***	7,500	21.59/M	350570-1
		Brass	B		A1437-ND◊	1.21	8.15	350689-1	A97890CT-ND ***NEW!***	4.50	19.14	28.49	A97890TR-ND ***NEW!***	7,500	21.92/M	350851-1
		Brass	C		A25357-ND	9.38	63.12	640347-2	A25357CT-ND	—	378.92	688.95	A25357TR-ND	7,500	413.38/M	350851-2
		Brass	C		A1439-ND◊	9.78	65.78	350689-2	A1439CT-ND◊	—	359.99	654.53	A1439TR-ND◊	7,500	392.72/M	350570-2
		Brass	D		A25360-ND◊	5.89	39.63	350689-7	A25360CT-ND	—	185.01	336.38	A25360TR-ND	7,500	201.83/M	350851-7
		Phos. Brz.	A		A25363-ND◊	1.50	10.07	350689-3	A25363CT-ND◊	—	36.55	66.45	A25363TR-ND◊	7,500	39.88/M	350570-3
		Phos. Brz.	D		—	—	—	—	A25364CT-ND◊	64.42	274.00	407.86	A25364TR-ND◊	7,500	313.74/M	350570-6
20-14	.060 - .130 (1.52-3.30)	Brass	B	.760 (19.30)	A1441-ND§	1.07	7.21	350550-1	A97889CT-ND ***NEW!***	4.49	19.10	28.43	A97889TR-ND ***NEW!***	5,000	21.87/M	350536-1
		Brass	C		A1443-ND§	9.65	64.94	350550-2	A1443CT-ND§	—	—	638.85	A1443TR-ND§	5,000	383.31/M	350536-2
		Brass	D		A25342-ND§	5.82	39.17	350550-7	—	—	—	—	—	—	—	—
		Phos. Brz.	A		A25344-ND§	1.44	9.72	350550-3	—	—	—	—	—	—	—	—
		Phos. Brz.	D		A25347-ND§	10.12	68.11	350550-6	A25347CT-ND§	—	—	535.23	A25347TR-ND§	5,000	321.14/M	350536-6
	.130 - .200 (3.30-5.08)	Brass	B	.780 (19.81)	A14302-ND	1.59	10.68	350551-1	—	—	—	—	—	—	—	—
		Brass	C		A25369-ND	10.34	69.59	350551-2	A25369CT-ND	—	439.85	799.73	A25369TR-ND	2,500	639.78/M	350537-2
		Brass	D		A25372-ND	7.64	51.37	350551-7	A25372CT-ND	—	249.38	453.43	A25372TR-ND	2,500	362.74/M	350537-7
		Phos. Brz.	A		A25375-ND	2.07	13.94	350551-3	A25375CT-ND	—	54.77	99.58	A25375TR-ND	2,500	79.66/M	350537-3
		Phos. Brz.	D		A25409-ND	14.13	95.02	350551-6	A25409CT-ND	—	274.51	499.10	A25409TR-ND	2,500	399.28/M	350537-6
22-18	.060 - .094 (1.50-2.40)	Brass	B	.572 (14.53)	—	—	—	—	A32602CT-ND	10.38	44.15	65.72	A32602TR-ND	7,000	50.55/M	794831-1
18-14	.130 - .200 (3.30-5.08)	Brass	B	.780 (19.81)	—	—	—	—	A25379CT-ND	7.75	32.96	54.09	A25379TR-ND	2,500	50.32/M	350874-1
		Phos. Brz.	A		A25381-ND	1.94	13.02	350919-3	—	—	—	—	—	—	—	—
12-10	.200 max. (5.08)	Phos. Brz.	A	.780 (19.81)	A25383-ND▲	3.11	20.93	640310-3	—	—	—	—	—	—	—	—
			D		A25387-ND▲	14.15	95.22	640310-6	A25387CT-ND▲	—	421.37	766.13	A25387TR-ND▲	2,500	612.90/M	350923-6
Split Pin Contacts																
24-18	.040 - .100 (1.02-2.54)	Brass	B	.790 (20.06)	A1436-ND	1.22	8.19	350706-1	—	—	—	—	—	—	—	—
			C		A1438-ND	9.10	61.20	350706-2	A1438CT-ND	—	—	724.45	A1438TR-ND	7,000	434.67/M	350699-2
			D		A25334-ND	6.62	44.55	350706-7	A25334CT-ND	—	—	348.75	A25334TR-ND	7,000	209.25/M	350699-7
20-14	.060 - .130 (1.52-3.30)	Brass	B	.790 (20.06)	A1440-ND§	1.21	8.15	350705-1	—	—	—	—	—	—	—	—
			C		A1442-ND§	9.10	61.20	350705-2	—	—	—	—	—	—	—	—
			D		A25336-ND§	6.62	44.55	350705-7	A25336CT-ND§	—	—	370.53	A25336TR-ND§	5,000	222.32/M	350687-7
	.130 - .200 (3.30-5.08)	Brass	B	.810 (20.57)	A25338-ND	1.63	10.98	350707-1	A25338CT-ND	—	36.09	65.63	A25338TR-ND	2,500	52.50/M	350700-1
			C		A25694-ND	9.15	61.59	350707-2	—	—	—	—	—	—	—	—
			D		A25730-ND	8.01	53.86	350707-7	—	—	—	—	—	—	—	—
Grounding Pin																
20-14	.060 - .130 (1.52-3.30)	Brass	B	—	A25339-ND§	1.59	10.68	350669-1	—	—	—	—	—	—	—	—
Keying Plug																
Keying Plug, UL94V-0 Nylon					A25156-ND	5.66	49.79	770377-1	—	—	—	—	—	—	—	—
Programmable Connector Contact																
Socket w/110 Series Special FASTON Tab, Brass - Pre-Tin					A25340-ND	3.53	23.78	350877-1	—	—	—	—	—	—	—	—

▲ There is no insulation barrel on this contact. Insulation maximum diameter is limited by the housing. Use of strain relief is recommended with these contacts.

◊ Socket Contact: .010in. (.254mm) stock thickness § Can be used with Splash Proof Seals

Tools and Die Sets

A25206-ND (58382-1)	Latch Disengaging Tool	**$62.67**
A9998-ND (91002-1)	Contact Insertion Tool	**$19.38**
A9907-ND (91500-1)	Universal Mate-N-Lok Crimp Tool for 20-14AWG	**$471.23**
A9996-ND (354940-1)	PRO-CRIMPER™ III Hand Tool without Dies.	**$66.00**
A34584-ND (679221-1)	PRO-CRIMPER II/III Repair Kit	**$51.00**
A9944-ND (90548-2)	PRO-CRIMPER III Die Set for 24-18AWG	**$100.50**
A9943-ND (90546-2)	PRO-CRIMPER III Die Set for 20-14AWG (.060”-.130” Insulation Diameter)	**$100.50**
A9924-ND (90547-2)	PRO-CRIMPER III Die Set for 20-14AWG (.130”-.200” Insulation Diameter)	**$100.50**
A9923-ND (58530-2)	PRO-CRIMPER III Die Set for 12-10AWG	**$128.78**
A9947-ND (91510-1)	CERTI-CRIMP™ Hand tool with Die for 24-18AWG	**$468.14**
A9945-ND (91508-1)	CERTI-CRIMP Hand Tool with Die for 20-18AWG	**$519.12**
A9946-ND (91506-1)	CERTI-CRIMP Hand Tool with Die for 16-14AWG	**$471.23**
A28006-ND (69710-1)	CERTI-CRIMP Hand Tool without Die	**$358.50**
A25349-ND (58380-1)	CERTI-CRIMP Die Set for 12AWG	**$534.57**
A25350-ND (58380-2)	CERTI-CRIMP Die Set for 10AWG	**$553.11**
A25159-ND (90548-1)	PRO-CRIMPER with Die for 24-18AWG	**$133.50**
A25160-ND (90546-1)	PRO-CRIMPER with Die for 20-14AWG (.060”-.130” Insulation Diameter)	**$133.50**
A25161-ND (90547-1)	PRO-CRIMPER with Die for 20-14AWG (.130”-.200” Insulation Diameter)	**$133.50**

Universal MATE-N-LOK II® Connectors - Soft Shell

Housing Kits

Product Facts: • Ultimate reliability • Pins and sockets can be intermixed in the same housing • Available in 2 thru 15 Circuit sizes for free hanging or panel mount wire-to-wire connection • Polarized housings available in UL94V-0 flammability rated material • Contacts are on .250" (6.35mm) centerline spacing • UL Recognized: E28476 • Certified CSA: LR 16455-113 • Passed test by VDE under their Test Report No. 4751-1431-4016/A8E **Performance Characteristics:** • Dielectric Withstanding Voltage: 5.0 KVAC or 10 KVDC between adjacent circuits • Insulation Resistance: 1,000MΩ minimum between adjacent circuits • Voltage Rating: 600VAC or DC • Contact Retention: 35 pounds minimum per contact • Durability: 50 cycles, mating and unmating

Fig. 1

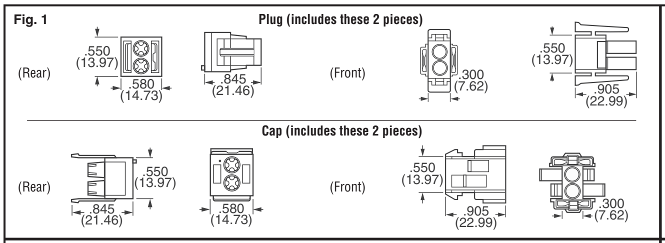

Fig. 2

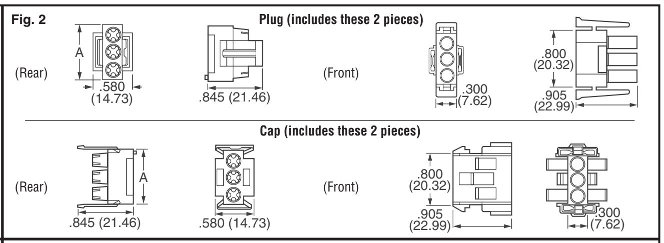

Fig. 3

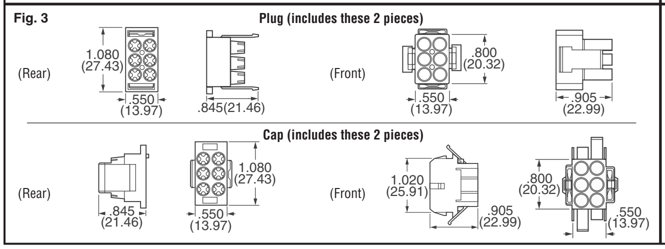

Fig. 4

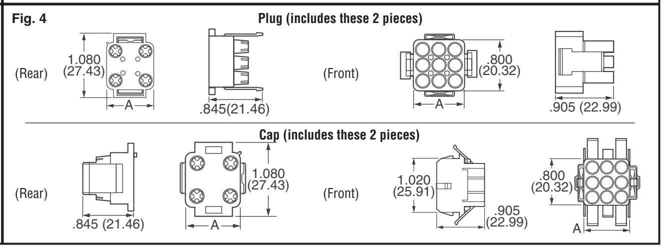

Fig.	Type	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
1	In-Line	2	Plug	—	A14240-ND	.81	.52	770017-1
			Cap	—	A14247-ND	.83	.53	770024-1
2	In-Line	3	Plug	.800 (20.32)	A14241-ND	.88	.57	770018-1
		3	Cap	.800 (20.32)	A14248-ND	.98	.63	770025-1
		4	Plug	1.050 (26.67)	A14242-ND	1.00	.65	770019-1
		4	Cap	1.050 (26.67)	A14249-ND	1.07	.69	770026-1
		5	Plug	1.300 (33.02)	A25155-ND	1.42	.92	770016-1
3	Matrix	6	Plug	—	A14243-ND	1.14	.74	770020-1
3	Matrix	6	Cap	—	A14250-ND	1.12	.72	770027-1
4	Matrix	9	Plug	.800 (20.32)	A14244-ND	1.21	.78	770021-1
		9	Cap	.800 (20.32)	A14251-ND	1.20	.77	770028-1
		12	Plug	1.050 (26.67)	A14245-ND	2.16	1.39	770022-1
		12	Cap	1.050 (26.67)	A14252-ND	2.08	1.34	770029-1
		15	Plug	1.300 (33.02)	A14246-ND	1.77	1.14	770023-1
		15	Cap	1.300 (33.02)	A14253-ND	1.69	1.09	770030-1
Keying Plug, Nylon UL94V-0					A25156-ND	5.66/10	49.79/100	770377-1

Contacts

Contact Plating: A: Phosphor bronze pre-tin plated **B:** Brass pre-tin plated **C:** Duplex Finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000050" (.00127mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Pin Connector

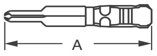

Socket Connector

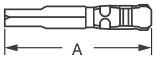

Wire Size (AWG)	Insulation Range ø Inch (mm)	Material	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
Split Pin Contacts																
24-18	.040 ~ .100 (1.02 ~ 2.54)	Brass	B	1.005 (25.53)	A14254-ND◆	1.57	10.57	770252-1	A14254CT-ND◆	—	—	84.93	A14254TR-ND◆	5,000	50.96/M	770009-1
			C		A31707-ND◆	9.28	62.41	1-770252-0	A31707CT-ND◆	56.32	239.53	457.13	A31707TR-ND◆	5,000	274.28/M	1-770009-0
20-14	.060 ~ .130 (1.52 ~ 3.30)	Brass	B	1.005 (25.53)	A14256-ND◆	2.02	13.61	770250-1	—	—	—	—	—	—	—	—
			C		A31706-ND◆	9.28	62.41	1-770250-0	A31706CT-ND◆	56.86	241.84	461.53	A31706TR-ND◆	4,000	369.22/M	1-770007-0
20-14	.130 ~ .200 (3.30 ~ 5.08)	Brass	B	.995 (25.27)	A14258-ND◆	2.66	17.92	770248-1	A14258CT-ND◆	—	68.86	125.20	A14258TR-ND◆	2,500	100.16/M	770005-1
			C		A31710-ND◆	11.25	75.66	1-770248-0	A31710CT-ND◆	—	321.41	584.38	A31710TR-ND◆	2,500	467.50/M	1-770005-0
			C		—	—	—	—	A25181CT-ND	86.14	366.35	699.15	A25181TR-ND	2,500	419.50/M	770005-4
		Phos Brz.	C	.995 (25.27)	—	—	—	—	A31705CT-ND◆	104.10	442.78	845.00	A31705TR-ND◆	2,500	676.00/M	1-770005-1
12-10	.200 max. † (5.08 max.)	Phos. Brz.	A	1.005 (25.53)	A14260-ND◆	4.26	28.68	770246-3	A14260CT-ND◆	—	—	238.10	A14260TR-ND◆	3,000	190.48/M	770003-3
			C		A14261-ND	21.62	145.45	770246-4	—	—	—	—	—	—	—	—
			C		A31708-ND◆	20.23	136.10	1-770246-0	—	—	—	—	—	—	—	—
Socket Contacts																
24-18	.040 ~ .100 (1.02 ~ 2.54)	Phos. Brz.	A	.980 (24.90)	A14262-ND◆	2.34	15.76	770253-3	A14262CT-ND◆	—	—	112.50	A14262TR-ND◆	5,000	67.50/M	770010-3
			C		A14263-ND	15.47	104.06	770253-4	A14263CT-ND	—	—	701.80	A14263TR-ND	5,000	421.08/M	770010-4
			C		A33356-ND◆	14.47	97.37	1-770253-0	A33356CT-ND◆	—	—	657.58	A33356TR-ND◆	5,000	394.55/M	1-770010-0
20-14	.060 ~ .130 (1.52 ~ 3.30)	Phos. Brz.	A	.980 (24.90)	A14264-ND◆	2.46	16.58	770251-3	—	—	—	—	—	—	—	—
			C		A14265-ND	16.28	109.53	770251-4	A14265CT-ND	—	—	719.98	A14265TR-ND	4,000	431.99/M	770008-4
			C		A33357-ND◆	15.24	102.50	1-770251-0	A33357CT-ND◆	—	—	674.58	A33357TR-ND◆	4,000	404.75/M	1-770008-0
20-14	.130 ~ .200 (3.30 ~ 5.08)	Phos. Brz	A	.970 (24.64)	A14266-ND◆	3.22	21.68	770249-3	A14266CT-ND◆	—	88.12	160.23	A14266TR-ND◆	2,500	128.18/M	770006-3
			C		—	—	—	—	A14267CT-ND	—	485.20	882.18	A14267TR-ND	2,500	705.74/M	770006-4
			C		A31711-ND◆	18.52	124.60	1-770249-0	—	—	—	—	—	—	—	—
12-10	.200 max. † (5.08 max.)	Phos. Brz.	A	.980 (24.90)	A14268-ND◆	4.26	28.68	770247-3	A14268CT-ND◆	—	—	238.10	A14268TR-ND◆	3,000	190.48/M	770004-3
			C		—	—	—	—	A14269CT-ND	—	—	1061.05	—	—	—	770004-4
			C		A31704-ND◆	20.51	137.98	1-770247-0	A31704CT-ND◆	122.48	520.93	994.15	A31704TR-ND◆	3,000	795.32/M	1-770004-0
Grounding Pins (mate first, break last, not for interrupting current)																
20-14	.060 ~ .130 (1.52 ~ 3.30)	Brass	B	—	A25188-ND◆	3.08	20.74	770254-1	—	—	—	—	—	—	—	—
			C		A31714-ND◆	18.45	124.10	1-770254-0	—	—	—	—	—	—	—	—
20-14	.130 ~ .200 (3.30 ~ 5.08)	Brass	B	—	A25737-ND◆	3.08	20.74	770255-1	—	—	—	—	—	—	—	—
			C		A25738-ND	19.71	132.62	770255-2	—	—	—	—	—	—	—	—

◆ ***RoHS Compliant*** † There is no insulation barrel on this contact. Insulation maximum diameter is limited by the housing. Use of strain relief is recommended with these contacts.

Tools and Die Sets

A25206-ND (58382-1)	Latch Disengaging Tool	**$62.67**
A32539-ND (1804030-1)	Contact Extraction Tool	**$35.40**
A1444-ND (455830-1)	Contact Insertion Tool (Larger than .090" Insulation Diameter)	**$17.06**
A9998-ND (91002-1)	Contact Insertion Tool (.090" max. Insulation Diameter)	**$19.38**
A9996-ND (354940-1)	PRO-CRIMPER III Hand Tool without Dies	**$66.00**
A34584-ND (679221-1)	PRO-CRIMPER II/III Repair Kit	**$51.00**
A9944-ND (90548-2)	PRO-CRIMPER III Die Set for 24-18AWG	**$100.50**
A9943-ND (90546-2)	PRO-CRIMPER III Die Set for 20-14AWG (.060"-.130" Insulation Diameter)	**$100.50**
A9924-ND (90547-2)	PRO-CRIMPER III Die Set for 20-14AWG (.130"-.200" Insulation Diameter)	**$100.50**
A9923-ND (58530-2)	PRO-CRIMPER III Die Set for 12-10AWG	**$128.78**
A9947-ND (91510-1)	CERTI-CRIMP Hand Tool with Die for 24-18AWG	**$468.14**
A9945-ND (91508-1)	CERTI-CRIMP Hand Tool with Die for 20-18AWG	**$519.12**
A9946-ND (91506-1)	CERTI-CRIMP Hand Tool with Die for 16-14AWG	**$471.23**
A28006-ND (69710-1)	CERTI-CRIMP Hand Tool without Die	**$358.50**
A25349-ND (58380-1)	CERTI-CRIMP Die Set for 12AWG	**$534.57**
A25350-ND (58380-2)	CERTI-CRIMP Die Set for 10AWG	**$553.11**
A25159-ND (90548-1)	PRO-CRIMPER with Die for 24-18AWG	**$133.50**
A25160-ND (90546-1)	PRO-CRIMPER with Die for 20-14AWG (.060"-.130" Insulation Diameter)	**$133.50**
A25161-ND (90547-1)	PRO-CRIMPER with Die for 20-14AWG (.130"-.200" Insulation Diameter)	**$133.50**

Strain Reliefs (For MATE-N-LOK® and MATE-N-LOK II® Connectors)

Strain Reliefs *(Two strain reliefs required per housing)*

Fig.	No. of Circuits	Description	Insert Supplied	Wire Bundle Size (Inch)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Enclosed Plug Housing UL94V-0 Strain Reliefs — Nylon, White Color								
1	2	In-Line	Yes	.040 ~ .190	A14338-ND	1.15	.94	640713-1
			No	.200 ~ .350	A25162-ND	1.15	.94	640713-2
	3	In-Line	Yes	.040 ~ .190	A14339-ND	1.08	.88	640714-1
			No	.200 ~ .350	A25163-ND	.93	.76	641945-1
	4	In-Line	Yes	.040 ~ .190	A14340-ND	1.18	.96	641776-1
			No	.200 ~ .350	A25164-ND	1.01	.83	641776-2
	5	In-Line	Yes	.040 ~ .190	A14341-ND	1.20	.97	643030-1
			No	.200 ~ .350	A25165-ND	1.20	.97	643030-4
	6	In-Line	Yes	.040 ~ .190	A14342-ND†	1.21	.98	643313-1
			No	.200 ~ .350	A25166-ND†	1.21	.98	643313-2
	8	In-Line	Yes	.040 ~ .190	A14343-ND†	1.24	1.01	643314-1
	6	Matrix	Yes	.120 ~ .650	A14344-ND	1.11	.90	640715-1
	9			.120 ~ .650	A14345-ND	1.15	.94	640716-1
	12			.150 ~ .750	A14346-ND	1.29	1.05	640717-1
	15			.200 ~ .850	A14347-ND	1.28	1.04	640718-1
Enclosed Plug Housing UL94V-2 Strain Reliefs — Nylon, Natural Color								
1	2	In-Line	Yes	.040 ~ .190	A14348-ND	1.04	.83	1-640719-0
			No	.200 ~ .350	A25167-ND	1.32	1.07	1-640719-1
	3	In-Line	Yes	.040 ~ .190	A14349-ND	1.05	.86	1-640720-0
			No	.200 ~ .350	A14350-ND	1.04	.85	641763-1
	4	In-Line	Yes	.040 ~ .190	A2516 8-ND	1.06	.87	641775-1
			No	.200 ~ .350	A14351-ND	1.12	.91	641775-2
	5	In-Line	Yes	.040 ~ .190	A25169-ND	1.08	.88	643030-3
			No	.200 ~ .350	A14352-ND	1.08	.88	643030-2
	6	In-Line	Yes	.040 ~ .190	A25324-ND†	1.09	.89	643585-1
			No	.200 ~ .350	A25325-ND†	1.09	.89	643585-2
	6	Matrix	Yes	.120 ~ .650	A14353-ND	1.09	.87	1-640721-0
	9			.120 ~ .650	A14354-ND	1.13	.92	1-640722-0
	12			.150 ~ .750	A14355-ND	1.16	.95	1-640723-0
	15			.200 ~ .850	A14356-ND	1.20	.98	1-640724-0

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Open Plug Housing UL94V-0 Strain Reliefs — Nylon, White Color					
2	2, 3, 4, 5, 6 and 8, In-Line	A14336-ND	.64	.52	350811-1
	6, 9, 12 and 15, Matrix	A14337-ND	.73	.60	350812-1
Open Plug Housing UL94V-2 Strain Reliefs — Nylon, Natural Color					
2	2, 3, 4, 5, 6 and 8, In-Line	A25326-ND	.58	.47	1-350589-0
	6, 9, 12 and 15, Matrix	A25327-ND	.66	.54	1-350590-0

Fig. 1

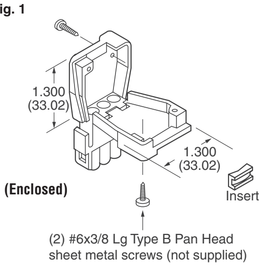
1.300
(33.02)
1.300
(33.02)
Insert
(Enclosed)
(2) #6x3/8 Lg Type B Pan Head
sheet metal screws (not supplied)

Fig. 2

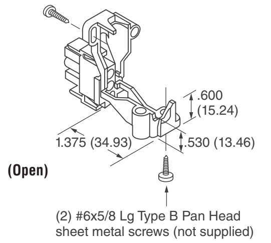
.600
(15.24)
1.375 (34.93)
.530 (13.46)
(Open)
(2) #6x5/8 Lg Type B Pan Head
sheet metal screws (not supplied)

Fig. 3

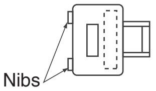

Fig. 4

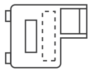

Cap Housing Adapters

Fig.	Description	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
Adapters for UL94V-0 Strain Reliefs — White Color					
3	For All Positions Except 2, 6 and 8 Circuit Cap Housings	A24724-ND	.61	.53	641778-1
	Adapter Without NIBS For All Positions Except 2, 6 and 8 Circuit Cap Housings	A24725-ND	.61	.53	641778-2
4	For 2 In-Line and 6 Matrix Circuit Cap Housings Only	A24726-ND	.59	.52	643182-2
Adapters for UL94V-2 Strain Reliefs — Natural Color					
3	For All Positions Except 2, 6 and 8 Circuit Cap Housings	A24903-ND	.58	.51	641777-1
4	For 2 In-Line and 6 Matrix Circuit Cap Housings Only	A24904-ND	.77	.68	643182-1

† Strain relief for 6 and 8 position in-line fits plug housings only.

Headers (For MATE-N-LOK® and MATE-N-LOK II® Connectors)

Fig. 1 — Housing: 94V-2 rating, nylon natural color. 94V-0 rating, white unless noted otherwise **Contact:** Phosphor bronze
Contact Plating: **A:** Phosphor bronze pre-tin plated **B:** .000030" (0.000762mm) minimum gold in mating area, matte tin-lead on solder tail end over .000050" (0.00127mm) minimum nickel underplate on entire contact

Fig. 1A
In-Line Circuits

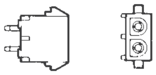

Fig. 1B
Multiple Row Circuits

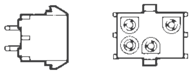

Fig. 2 — Housing: 94V-2 rated, natural nylon **Contact:** Phosphor bronze
Contact Plating: **A:** Phosphor bronze pre-tin plated **B:** .000030" (0.000762 mm) minimum gold in mating area, matte tin-lead on solder tail end over .000050" (0.00127 mm) minimum nickel underplate on entire contact

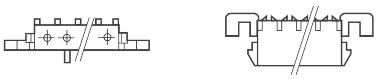

Fig. 3 — Housing: PBT, black **Contact:** Copper alloy, plated with tin-lead over nickel on entire contact

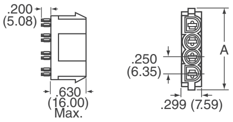

For MATE-N-LOK® Connectors

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Vertical Pin Headers — PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board) — RoHS Compliant							
1A	6	A	UL94V-0	A25287-ND	2.37	1.70	641831-1
	8	A		A14321-ND	1.89	1.36	641828-1
	2	A	UL94V-2	A1466-ND	.46	.33	350428-1
	2	B		A32544-ND	2.08	1.49	350428-4
	3	A		A1468-ND	.58	.42	350429-1
	3	B		A31742-ND	2.76	1.98	350429-4
	4	A		A1470-ND	.76	.55	350430-1
	4	B		A31743-ND	3.63	2.61	350430-4
	5	A		A14317-ND	1.17	.85	640466-1
	6	A		A14319-ND	2.72	1.95	641832-1
	8	A		A14320-ND	2.35	1.69	641825-1
1B	6	A	UL94V-2	A1472-ND	.74	.54	350431-1
	6	B		A31744-ND	5.13	3.68	350431-4
	9	A		A1474-ND	1.37	.99	350432-1
	9	B		A31745-ND	7.21	5.17	350432-4
	12	A		A1476-ND	1.65	1.19	350433-1
	12	B		A31746-ND	10.74	7.70	350433-4
	15	A		A1478-ND	1.80	1.30	350434-1
	15	B		A31747-ND	11.55	8.28	350434-4
Standard Tail Polarized (for .062" (1.57mm) thick PC board) — RoHS Compliant							
1A	6	A	UL94V-0	A25293-ND	2.49	1.79	643408-1
	8	A		A25295-ND	2.90	2.08	643410-1
	2	A	UL94V-2	A25288-ND	.76	.55	641963-1
	3	A		A25289-ND	.84	.61	641965-1
	4	A		A25290-ND	.87	.63	641967-1
	5	A		A25291-ND	1.90	1.37	643405-1
	6	A		A25292-ND	2.25	1.62	643407-1
1B	6	A	UL94V-2	A25294-ND	1.44	1.04	641969-1
	9	A		A25296-ND	1.78	1.28	641971-1
	12	A		A25297-ND	1.71	1.23	641973-1
	15	A		A25298-ND	2.66	1.91	641975-1
Long Tail — (for .125" (3.18mm) thick PC board)							
1A	2	A	UL94V-2	A25299-ND◆	.77	.56	350582-1
	2	B		A25300-ND	2.12	1.52	350582-2
	2	B		A31748-ND◆	1.98	1.43	350582-4

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
1A	3	A	UL94V-2	A25301-ND◆	.85	.61	350583-1
	3	B		A25302-ND	3.19	2.29	350583-2
	3	B		A31749-ND◆	2.99	2.15	350583-4
	4	A		A25303-ND◆	1.07	.77	350584-1
	4	B		A25304-ND	3.76	2.70	350584-2
	4	B		A31750-ND◆	3.52	2.52	350584-4
	8	A		A25307-ND◆	2.47	1.77	770143-1
1B	6	A	UL94V-2	A25305-ND◆	1.39	1.00	350585-1
	6	B		A25306-ND	5.98	4.29	350585-2
	6	B		A31751-ND◆	5.59	4.01	350585-4
	9	A		A25308-ND◆	1.72	1.24	350586-1
	9	B		A31752-ND◆	7.83	5.61	350586-4
	12	A		A25310-ND◆	2.47	1.78	350587-1
	15	A		A25311-ND◆	2.58	1.86	350588-1
Vertical Socket Headers — PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board)							
1A	2	A	UL94V-2	A1490-ND◆	.45	.37	350759-4
	2	B		A1491-ND	1.68	.92	350759-3
	2	B		A31759-ND◆	1.57	.86	350759-5
	3	A		A1492-ND◆	.57	.46	350760-4
	3	B		A1493-ND	3.08	1.69	350760-3
	3	B		A31760-ND◆	2.19	1.20	350760-5
	4	A		A1494-ND◆	.48	.39	350761-4
	4	B		A31761-ND◆	2.80	1.54	350761-5
	5	A		A25312-ND◆	1.54	1.11	640467-1
1B	6	A	UL94V-2	A1496-ND◆	.78	.64	350762-4
	6	B		A31762-ND◆	4.16	2.28	350762-5
	9	A		A1498-ND◆	.90	.73	350763-4
	12	A		A1200-ND◆	1.30	1.06	350764-4
	12	B		A31763-ND◆	8.98	4.92	350764-5
	15	A		A1202-ND◆	2.03	1.65	350765-4
Standard Tail - Polarized (for .062" (1.57mm) thick PC board) — RoHS Compliant							
1A	2	A	UL94V-2	A25313-ND	.67	.55	643411-1
	3	A		A25314-ND	.62	.50	643413-1
	4	A		A25315-ND	.79	.64	643415-1

◆ ***RoHS Compliant***

(Continued)

Headers (For MATE-N-LOK® and MATE-N-LOK II® Connectors) *(Cont.)*

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
1B	6	A	UL94V-2	A25316-ND	.83	.67	643423-1
	9			A25317-ND	1.10	.90	643425-1
	15			A25318-ND	2.13	1.73	643429-1
Long Tail (for .125” (3.18mm) thick PC board) — RoHS Compliant							
1A	2	A	UL94V-2	A25319-ND	.57	.46	350986-4
	4			A25320-ND	.80	.65	350988-4
1B	6	A	UL94V-2	A25321-ND	1.32	1.08	350989-4
	9			A25322-ND	1.52	1.24	350990-4
	15			A25323-ND	2.13	1.73	350992-4
Right Angle Pin Header Assemblies — PCB Mount							
2	6	A	UL94V-0	A14311-ND◆	3.59	2.58	640583-1
	6	B		A31769-ND◆	9.31	6.68	640583-3
	8	A		A14312-ND◆	3.84	2.76	640584-1
	8	B		A14313-ND	10.25	7.35	640584-2
	8	B		A31770-ND◆	9.59	6.88	640584-3
	4	A		A25210-ND◆	2.27	1.63	1-350948-0
Right Angle Socket Header Assemblies — PCB Mount							
2	6	A	UL94V-0	A25220-ND◆	4.39	3.56	643234-1
	6	B		A31773-ND◆	9.46	5.18	3-643234-0
	8	A		A25222-ND◆	5.63	4.56	643236-1
	8	B		A25223-ND	15.32	8.39	643236-2
	8	B		A31774-ND◆	13.36	7.31	3-643236-0

For MATE-N-LOK® and MATE-N-LOK II® Connectors

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Vertical Pin Headers — PCB Mount							
Standard Tail (for .062” (1.57mm) thick PC board) — RoHS Compliant							
1A	2	A	UL94V-0	A14314-ND	.75	.54	350786-1
	3			A14315-ND	.92	.66	350789-1
	4			A14316-ND	1.08	.78	350792-1
	5			A14318-ND	1.73	1.25	640900-1
1B	6	A	UL94V-0	A14322-ND	1.78	1.28	350711-1
	6	B		A31753-ND	5.08	3.65	350711-4
	9	A		A14324-ND	1.66	1.20	350712-1
	12	A		A14325-ND	2.01	1.44	350713-1
	12	B		A31754-ND	6.86	4.92	350713-4
	15	A		A14327-ND	2.52	1.81	350714-1
Standard Tail Polarized (for .062” (1.57mm) thick PC board) — RoHS Compliant							
1A	2	A	UL94V-0	A25230-ND	1.19	.86	641964-1
	3			A25231-ND	1.31	.95	641966-1
	4			A25232-ND	1.55	1.11	641968-1
	5			A25233-ND	2.06	1.48	643406-1
1B	6	A	UL94V-0	A25234-ND	1.92	1.38	641970-1
	6	B		A31771-ND	6.62	4.75	641970-3
	9	A		A25236-ND	2.50	1.79	641972-1
	9	B		A31772-ND	8.37	6.01	641972-3
	12	A		A25238-ND	3.11	2.23	641974-1
Long Tail (for .125” (3.18mm) thick PC board)							
1A	2	A	UL94V-0	A25240-ND◆	1.14	.82	350787-1
	2	B		A25241-ND	2.80	2.01	350787-2
	2	B		A31764-ND◆	2.62	1.88	350787-3
	3	A		A25242-ND◆	1.26	.91	350790-1
	3	B		A31765-ND◆	3.39	2.43	350790-3
	4	A		A25244-ND◆	1.49	1.07	350793-1
	4	B		A25245-ND	4.53	3.25	350793-2
	4	B		A31766-ND◆	4.24	3.04	350793-3
1B	6	A	UL94V-0	A25246-ND◆	1.85	1.33	350732-1
	6	B		A25247-ND	6.34	4.55	350732-2
	6	B		A31755-ND◆	5.93	4.25	350732-4
	9	A		A25248-ND◆	2.18	1.57	350742-1
	9	B		A25249-ND	8.61	6.18	350742-2
	9	B		A31758-ND◆	8.06	5.78	350742-4
	12	A		A25250-ND◆	3.00	2.16	350737-1
	12	B		A31756-ND◆	11.94	8.56	350737-4
	15	A		A25252-ND◆	3.04	2.19	350738-1
	15	B		A31757-ND◆	12.70	9.11	350738-4

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Vertical Socket Headers — PCB Mount							
Standard Tail (for .062” (1.57mm) thick PC board)							
1A	3	A	UL94V-0	A14328-ND◆	.61	.49	350825-1
	4			A14329-ND◆	.82	.67	350826-1
1B	6	A	UL94V-0	A14330-ND◆	1.11	.90	350827-1
	9	A		A14331-ND◆	1.23	1.00	350828-1
	12	A		A14332-ND◆	1.64	1.34	350829-1
	12	B		A14333-ND	10.19	5.58	350829-2
	12	B		A31767-ND◆	9.54	5.22	350829-4
	15	A		A14334-ND◆	2.00	1.63	350830-1
	15	B		A31768-ND◆	10.03	5.49	350830-4
Standard Tail - Polarized (for .062” (1.57mm) thick PC board)							
1A	2	A	UL94V-0	A25262-ND◆	.81	.66	643412-1
	3	A		A25263-ND◆	.93	.76	643414-1
	4	A		A25264-ND◆	1.05	.86	643416-1
1B	6	A	UL94V-0	A25265-ND◆	1.21	.98	643424-1
	6	B		A25266-ND	8.91	4.88	643424-2
	6	B		A31775-ND◆	6.40	3.51	643424-3
	9	A		A25267-ND◆	1.37	1.11	643426-1
	9	B		A31776-ND◆	4.88	2.68	643426-3
	12	A		A25269-ND◆	2.43	1.98	643428-1
	15	A		A25270-ND◆	2.55	2.07	643430-1
Long Tail (for .125” (3.18mm) thick PC board) — RoHS Compliant							
1A	2	A	UL94V-0	A25271-ND	.85	.70	350831-1
	3	A		A25272-ND	.94	.76	350832-1
	3	B		A31733-ND	2.99	1.64	350832-4
	4	A		A25274-ND	1.09	.89	350833-1
	4	B		A31734-ND	3.80	2.08	350833-4
1B	6	A	UL94V-0	A25276-ND	1.37	1.12	350834-1
	6	B		A31735-ND	5.07	2.78	350834-4
	9	A		A25278-ND	1.69	1.38	350835-1
	9	B		A31736-ND	6.94	3.80	350835-4
	12	A		A25280-ND	2.35	1.91	350836-1
	12	B		A31737-ND	10.44	5.72	350836-4
	15	A		A25282-ND	2.36	1.92	350837-1
	15	B		A31738-ND	11.08	6.07	350837-4
Right Angle Pin Header Assemblies — PCB Mount — RoHS Compliant							
2	2	A	UL94V-0	A14306-ND	1.88	1.35	1-350942-0
	2	B		A31729-ND	3.29	2.36	3-350942-0
	3	A		A14307-ND	1.92	1.38	1-350943-0
	3	B		A31730-ND	5.75	4.12	3-350943-0
	4	A		A1484-ND	1.96	1.41	1-350944-0
	4	B		A31731-ND	4.98	3.57	3-350944-0
	5	A	UL94V-2	A1486-ND	2.35	1.69	1-350945-0
	5	B		A31732-ND	7.19	5.15	3-350945-0
	6	A		A25212-ND	4.02	2.89	640587-1
Right Angle Socket Header Assemblies — PCB Mount — RoHS Compliant							
2	2	A	UL94V-0	A25213-ND	2.10	1.70	643226-1
	3	A		A25214-ND	2.50	2.03	643228-1
	3	B		A31739-ND	5.30	2.90	3-643228-0
	4	A		A25216-ND	2.45	1.99	643230-1
	4	B		A31740-ND	6.94	3.80	3-643230-0
	5	A		A25218-ND	3.89	3.15	643232-1
	5	B		A31741-ND	8.48	4.64	3-643232-0

For MATE-N-LOK II® Connectors

Fig.	No. of Circuits	Style	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Vertical Pin Headers with ACTION PIN Contacts — PCB Mount — UL94V-0 (Install in PC Board with arbor press)							
3	2	In-Line	.750 (19.05)	A25207-ND◆	5.55	3.98	173924-1
	3		1.000 (25.40)	A25208-ND	6.33	4.54	173925-1
	4		1.250 (31.75)	A25209-ND◆	10.41	7.47	173926-1

◆ *RoHS Compliant*

.140” (3.56mm) Connector Housing Kits

Product Facts:

- .240 Center line spacing
- Nylon, natural color and flammability rating UL94V-2
- Recognized under the component program of UL File No. E28476. Certified by Canadian Standards Assoc. File No. LR 7189A-381

Performance Characteristics:

- Dielectric Withstanding Voltage: 3.0K VAC between adjacent circuits
- Insulation Resistance: 1000MΩ minimum initial between adjacent circuits
- Voltage Rating: 250VAC or VDC
- Durability: 25 cycles, mating and unmating
- Thermal Shock: -55°C ~ 85°C
- Wire Size: 20-10AWG

Fig. 1

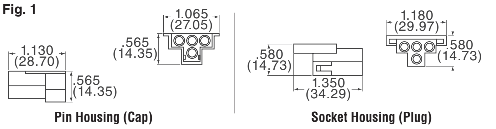

Pin Housing (Cap) Socket Housing (Plug)

Fig. 2

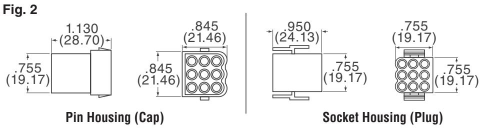

Pin Housing (Cap) Socket Housing (Plug)

Fig. 3

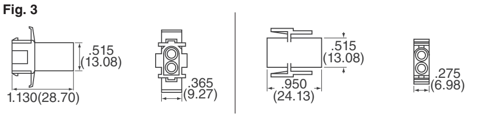

Pin Housing (Cap) Socket Housing (Plug)

Fig. 4

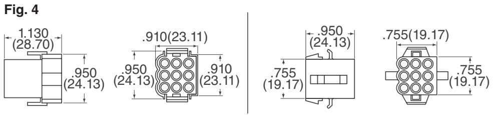

Pin Housing (Cap) Socket Housing (Plug)

Fig.	Type	No. of Circuits	Description	Digi-Key Part No.	Price Each 10	Price Each 50	Price Each 100	AMP Part No.
Free-Hanging Housing								
1	Matrix	4	Cap	A25464-ND	2.01	1.56	1.29	1-480512-0
			Plug	A25465-ND	2.15	1.67	1.38	1-480510-0
2	Matrix	9	Cap	A25466-ND	2.31	1.80	1.48	1-480586-0
			Plug	A25467-ND	2.32	1.80	1.48	1-480585-0

Fig.	Type	No. of Circuits	Description	Digi-Key Part No.	Price Each 10	Price Each 50	Price Each 100	AMP Part No.
Panel Mount Housing								
3	In-line	2	Cap	A25468-ND	.50	.39	.32	1-350345-0
			Plug	A25469-ND	.50	.39	.32	1-350344-0
		3	Cap	A25470-ND	.61	.47	.39	1-350347-0
			Plug	A25471-ND	.61	.47	.39	1-350346-0
4	Matrix	9	Cap	A25472-ND	1.28	.99	.82	1-480673-0
			Plug	A25473-ND	1.28	.99	.82	1-480672-0

(Continued)

Tyco Electronics AMP

Authorized Distributor

Headers (For MATE-N-LOK® and MATE-N-LOK II® Connectors) *(Cont.)*

Contacts

Specification: • Pin diameter: .140" (3.57mm) • Stock thickness: .014" (.357mm)

Contact Plating:
A: Phosphor bronze pre-tin plated
B: Brass pre-tin plated

Pin Connector

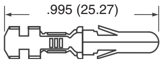

Socket Connector

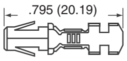

Wire Size (AWG)	Ins. Dia. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	50	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	1,000	Digi-Key Part No.	Strip Tape & Reel Qty.	Pricing	AMP Part No.
								Pin Contacts								
20-14	.100 ~ .180 (2.54 ~ 4.5)	Brass	B	A25454-ND	3.14	12.16	20.00	350389-1	A25454CT-ND	—	65.82	119.68	A25454TR-ND	2,500	95.74/M	61627-1
		Phos. Brz.	A	—	—	—	—	—	A25456CT-ND	27.01	114.89	171.02	A25456TR-ND	2,500	175.40/M	61627-2
14-10	.100 ~ .180 (2.54 ~ 4.5)	Brass	B	A25460-ND	3.14	12.16	20.00	350391-1	A25460CT-ND	—	66.47	120.85	A25460TR-ND	2,500	96.68/M	350201-1
		Phos.Brz.	A	A25751-ND	4.85	18.80	30.91	350391-2	A25751CT-ND	—	120.59	219.25	A25751TR-ND	2,500	175.40/M	350201-2
								Socket Contacts								
20-14	.100 ~ .180 (2.54 ~ 4.5)	Brass	B	A25455-ND	2.78	10.80	17.76	350388-1	A25455CT-ND	—	54.53	99.15	A25455TR-ND	2,500	79.32/M	61626-1
		Phos. Brz.	A	—	—	—	—	—	A25457CT-ND	23.02	97.92	145.76	A25457TR-ND	2,500	149.50/M	61626-2
14-10	.100 ~ .180 (2.54 ~ 4.5)	Brass	B	A25461-ND	2.78	10.80	17.76	350390-1	A25461CT-ND	—	53.60	97.45	A25461TR-ND	2,500	77.96/M	350200-1
		Phos. Brz.	A	A25752-ND	4.30	16.68	27.44	350390-2	A25752CT-ND	—	102.78	186.88	A25752TR-ND	2,500	149.50/M	350200-2
								Tools								
CERTI-CRIMP without Die Set for 14-10AWG......				A28006-ND	358.50/1			69710-1	—	—	—	—	—	—	—	—
CERTI-CRIMP Die Set for 14-12AWG				A9915-ND	2284.13/1			58374-1	—	—	—	—	—	—	—	—
CERTI-CRIMP Die Set for 10AWG.................				A9914-ND	4980.00/1			58373-1	—	—	—	—	—	—	—	—
Contact Extraction Tool............................				A25474-ND	105.57/1			318845-1	—	—	—	—	—	—	—	—
Crimp Tool for 20-14AWG..........................				A98554-ND ***NEW!***	892.50/1			1901963-1	—	—	—	—	—	—	—	—

Tyco Electronics AMP

Authorized Distributor

.062" (1.57mm) Soft-Shell Commercial Pin and Socket Connectors

Product Facts:
• Polarized • Cavity Identification • Low contact-mating force • Detent and positive locking • Tin plating • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 • AMP .062" (1.57mm) Soft-Shell Commercial Pin and Socket connectors form a total system of economical commercial-grade connectors and offer compatibility with competitive soft shells.

General Specifications:
• Thermal Shock: -55°C ~ 105°C • Temperature-Humidity Cycling: 25°C ~ 65°C at 90 ~ 95% RH • Durability: 50 mating cycles • Dielectric Withstanding Voltage: 1.0kVAC • Insulation Resistance: 1000MΩ minimum initial • Voltage Rating: 250VAC • Contact Rating: 24 ~ 30AWG: .5 ~ 1.5 Amps, 18 ~ 24AWG: 1.5 ~ 6 Amps • Contacts may be used in either plug or receptacle housings.

Fig. 1 — 1 Circuit, In-line

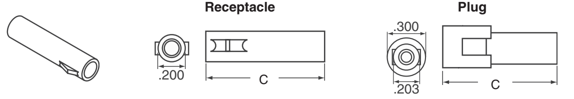

Fig. 2 — 2, 3 and 4 Circuit, In-line

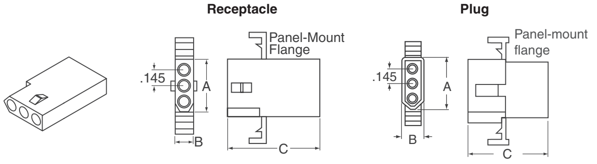

Fig. 3

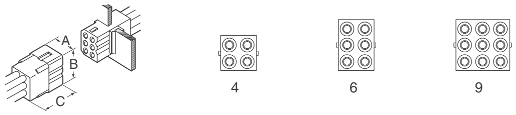

Description	Digi-Key Part No.	Price Each	AMP Part No.
	Tools		
Contact Insertion Tool	A9998-ND	19.38	91002-1
Contact Extraction Tool	A25483-ND	103.50	318831-1
Crimp Tool 24-30AWG with Die	A9819-ND	186.35	90870-1
Crimp Tool 18-24AWG with Die	A9820-ND	168.00	90869-1
PRO-CRIMPER III Hand Tool without Die	A9996-ND	66.00	354940-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	51.00	679221-1
PRO-CRIMPER III Die Set 18-24AWG, Use with A9996	A9957-ND	123.30	90869-2
PRO-CRIMPER III Die Set 24-30AWG, Use with A9996	A9956-ND	140.90	90870-2

Fig.	No of Circuits	Description	Dimension – Inch A	B	C	Digi-Key Part No.	Pricing 10	50	AMP Part No.
				Free-Hanging Housings					
				Receptacles					
1	1	Receptacle, with Detent, In-line	—	—	.785	A14001-ND	1.24	4.79	770277-1
2	2	Receptacle, with Detent, In-line	.340	.199	.820	A14002-ND	1.93	5.52	770342-1
	2	Receptacle, Positive, In-line	.340	.199	.820	A25484-ND	5.12	19.86	770419-1
	3	Receptacle, with Detent, In-line	.490	.199	.785	A14003-ND	2.78	10.79	770333-1
	4	Receptacle, with Detent, In-line	.635	.199	.785	A14004-ND	9.06	35.14	770274-1
3	4	Receptacle, with Detent, Matrix	.345	.345	.878	A14005-ND	2.94	11.41	770442-1
	6	Receptacle, with Detent, Matrix	.345	.495	.785	A14006-ND	3.99	15.49	770356-1
	9	Receptacle, with Detent, Matrix	.490	.495	.790	A14007-ND	3.03	11.76	770429-1
				Plugs					
1	1	Plug, with Detent, In-line	—	—	.750	A14008-ND	1.43	5.55	770278-1
2	2	Plug, with Detent, In-line	.440	.300	.780	A14009-ND	1.45	4.15	770340-1
	3	Plug, with Detent, In-line	.590	.300	.750	A14010-ND	2.62	10.15	770331-1
	4	Plug, with Detent, In-line	.733	.300	.750	A14011-ND	9.13	35.41	770275-1
3	4	Plug, with Detent, Matrix	.445	.445	.868	A14012-ND	4.26	16.51	770433-1
	6	Plug, with Detent, Matrix	.445	.600	.750	A14013-ND	3.42	13.26	770355-1
	9	Plug, with Detent, Matrix	.590	.600	.750	A14014-ND	2.69	10.42	770428-1
				Panel Mount Housings; UL94V-2					
				Receptacles					
2	2	Receptacle, with Detent, In-line	.340	.199	.820	A25485-ND	5.20	20.17	770343-1
	3	Receptacle, with Detent, In-line	.490	.199	.785	A25486-ND	6.23	24.17	770326-1
	4	Receptacle, with Detent, In-line	.635	.199	.785	A25487-ND	9.06	35.14	770335-1
3	4	Receptacle, with Detent, Matrix	.345	.345	.878	A25488-ND	4.26	16.53	770441-1
	6	Receptacle, with Detent, Matrix	.345	.495	.785	A25489-ND	9.28	36.00	770354-1
	9	Receptacle, with Detent, Matrix	.490	.495	.790	A25758-ND	4.51	17.48	770427-1
				Plugs					
2	2	Plug, with Detent, In-line	.440	.300	.780	A25490-ND	4.73	18.35	770341-1
	3	Plug, with Detent, In-line	.590	.300	.750	A25491-ND	2.62	10.15	770332-1
	4	Plug, with Detent, In-line	.733	.300	.750	A25759-ND	9.13	35.41	770334-1
3	4	Plug, with Detent, Matrix	.445	.445	.868	A25492-ND	11.68	45.32	770443-1
	6	Plug, with Detent, Matrix	.445	.600	.750	A25760-ND	9.32	36.16	770353-1
	9	Plug, with Detent, Matrix	.590	.600	.750	A25761-ND	3.97	15.39	770426-1

Description	Insulation Diameter Range Inch (mm)	Digi-Key Part No.	Loose Piece Pricing 100	500	AMP Part No.	Digi-Key Part No.†	Tape and Reel Qty.	Pricing	AMP Part No.
			.062" (1.57mm) Contacts						
Pin, 24-30AWG — Brass, Pre-tin	.060 (1.524)	A14016-ND	5.23	22.62	794018-1	A14016TR-ND	10,000	45.27/M	640391-1
Socket, 24-30AWG — Brass, Pre-tin	.060 (1.524)	A14048-ND	5.23	22.62	794019-1	A14048TR-ND	10,000	17.85/M	640392-1
Pin, 18-24AWG — Brass, Pre-tin	.050 ~ .110 (1.27 ~ 2.794)	A14015-ND	5.23	22.62	794017-1	A14015TR-ND	6,000	31.82/M	770983-1
Socket, 18-24AWG — Brass, Pre-tin	.050 ~ .110 (1.27 ~ 2.794)	A14049-ND	5.23	22.62	794016-1	A14049TR-ND	6,500	19.84/M	350628-1
Socket, 18-24AWG — Phosphor Bronze, Pre-tin	.050 ~ .110 (1.27 ~ 2.794)	—	—	—	—	A25480TR-ND	6,500	30.70/M	350628-2
Pin, 18-24AWG — Brass, Select Gold	.050 ~ .110 (1.27 ~ 2.794)	—	—	—	—	A25481TR-ND	6,000	179.01/M	350629-5
Socket, 18-24AWG — Brass, Select Gold	.050 ~ .110 (1.27 ~ 2.794)	—	—	—	—	A25482TR-ND	6,500	171.41/M	350628-5

† Tape and Reel (TR) is also available in Cut Tape.

.093” (2.36mm) Soft-Shell Commercial Pin and Socket Connectors

Product Facts:
• Polarized • Cavity Identification • Low contact-mating force • Detent and positive locking • Tin plating • Free-hanging styles • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189

AMP.093” (2.36mm) Soft-Shell Commercial Pin and Socket connectors form a total system of economical commercial-grade connectors and offer compatibility with competitive soft shells.

General Specifications: • **Thermal Shock:** -55°C ~ 105°C • **Temperature-Humidity Cycling:** 25°C ~ 65°C at 90-95% RH • **Durability:** 50 mating cycles • **Dielectric Withstanding Voltage:** 1.0k VAC • **Insulation Resistance:** 1000 MΩ minimum initial • **Voltage Rating:** 250VAC • **Contact Rating:** 2.0-10.0 Amps, 14-24 AWG • **Housing Material:** Nylon, natural color. Flammability Rating: UL94V-2 • **Contacts**: .010” (0.25mm) stock thickness. Select Gold is 30μ” minimum gold over nickel. Phosphor bronze contact should be used in high-temperature/humidity cycling applications.

Fig. 1 — 1 Circuit In-Line

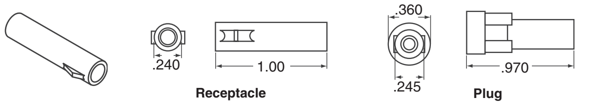

Fig. 2 — 2, 3, and 4 Circuit, In-Line

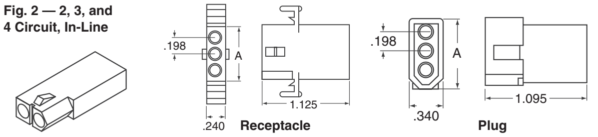

Fig. 3 — 5 Circuit, In-Line

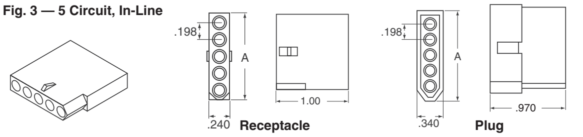

Fig. 4 — 4, 6, 9, 12, and 15 Circuit, Matrix

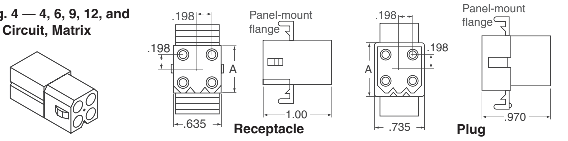

Fig. 5 — 3 Circuit, In-Line

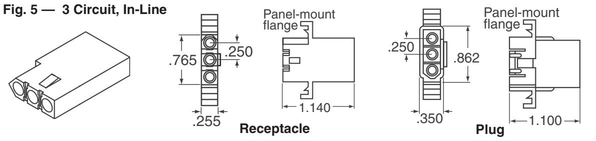

Fig. 6 — 4 Circuit, In-Line

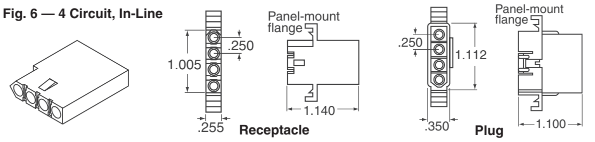

Fig. 7 — 6 Circuit, Matrix

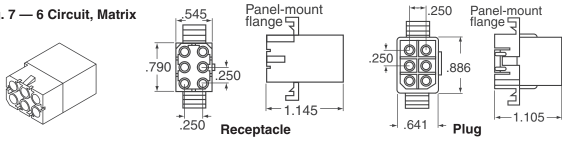

Fig. 8 — 2, 3 and 4 Circuit, In-Line

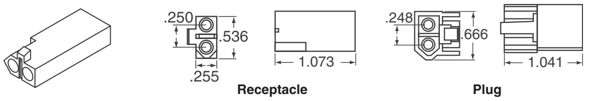

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 10	Pricing 50	AMP Part No.
		Free Hanging Housing — .198” (5.03mm) Centerline Spacing					
1	1	Receptacle, with Detent	—	A14050-ND	1.19	4.61	770063-1
2	2	Receptacle, with Detent	.540 (13.72)	A14051-ND◊	1.77	5.07	770065-1
2	3	Receptacle, with Detent	.670 (17.02)	A14052-ND	3.09	11.99	770070-1
2	4	Receptacle, with Detent	.870 (22.10)	A14053-ND	3.52	13.67	770075-1
4	4	Receptacle, Square with Detent	.443 (11.25)	A14054-ND	7.02	27.23	770843-1
3	5	Receptacle, with Detent	1.070 (27.18)	A14055-ND	3.56	10.19	770083-1
4	6	Receptacle, with Detent	.435 (11.05)	A14056-ND	4.11	15.96	770086-1
4	6	Receptacle, without Detents	.435 (11.05)	A25538-ND	4.11	15.96	770088-1
4	9	Receptacle, with Detent	.670 (17.02)	A14057-ND	5.18	20.09	770092-1
4	12	Receptacle, with Detents	.870 (22.10)	A25528-ND	5.34	20.71	770098-1
4	15	Receptacle, without Detents	1.070 (27.18)	A25529-ND	8.15	31.60	770105-1
1	1	Plug, without Mount Ears	—	A14058-ND	1.53	5.92	770064-1
2	2	Plug, without Mount Ears	.640 (16.26)	A14059-ND◊	3.16	9.06	770069-1
2	3	Plug, without Mount Ears	.770 (19.56)	A14060-ND	3.01	11.66	770074-1
2	4	Plug, without Mount Ears	.970 (24.64)	A14061-ND	3.35	12.98	770078-1
4	4	Plug Square, without Mount Ears	.540(13.71)	A14062-ND	11.54	44.75	770842-1
3	5	Plug, without Mount Ears	1.170 (29.72)	A14063-ND	2.73	7.82	770084-1
4	6	Plug, without Mount Ears	.535 (13.59)	A14064-ND	4.65	18.03	770090-1
4	9	Plug, without Mount Ears	.770 (19.56)	A14065-ND	5.10	19.77	770096-1
4	12	Plug, without Mount Ears	.970 (24.64)	A25536-ND	5.32	20.65	770102-1
4	15	Plug, without Mount Ears	1.170 (29.72)	A25537-ND	7.35	28.50	770107-1
		Panel-Mount — .198” (5.03mm) Centerline Spacing					
2	2	Receptacle, with Detents	.540 (13.72)	A14386-ND◊	2.32	9.00	770066-1
2	3	Receptacle, with Detents	.670 (17.02)	A14388-ND	3.25	12.62	770071-1
2	4	Receptacle, with Detents	.870 (22.10)	A14389-ND	3.52	13.67	770076-1
4	6	Receptacle, with Detents	.435 (11.05)	A25524-ND	13.50	52.37	770087-1
4	9	Receptacle, with Detents	.670 (17.02)	A25525-ND	5.44	21.11	770093-1
4	12	Receptacle, with Detents	.870 (22.10)	A25526-ND	11.34	44.00	770099-1
4	15	Receptacle, without Detents	1.070 (27.18)	A25527-ND	8.15	31.60	770103-1
2	2	Plug, without Mount Ears	.640 (16.26)	A14387-ND◊	7.36	28.56	770068-1
2	3	Plug, without Mount Ears	.770 (19.56)	A25530-ND	3.19	12.37	770073-1
2	4	Plug, without Mount Ears	.970 (24.64)	A25531-ND	3.35	12.98	770077-1
4	6	Plug, without Mount Ears	.535 (13.59)	A25532-ND	4.19	16.24	770089-1
4	9	Plug, with Mount Ears at Wire End	.770 (19.56)	A25533-ND	13.96	54.16	770095-1
4	12	Plug, without Mount Ears	.970 (24.64)	A25534-ND	12.91	50.07	770101-1
4	15	Plug, without Mount Ears	1.170 (29.72)	A25535-ND	12.57	48.76	770106-1
		Free Hanging Housing — .250” (6.35mm) Centerline Spacing					
5	3	Receptacle, In-line	—	A25771-ND	4.92	19.09	770339-1
6	4	Receptacle, In-line	—	A25519-ND	7.11	27.57	770337-1
7	6	Receptacle, Matrix	—	A25772-ND	11.44	44.38	770360-1
8	2	Receptacle, Positive Lock, In-line	—	A25513-ND	2.69	10.45	770424-1
8	3	Receptacle, Positive Lock, In-line	—	A25514-ND	5.14	19.94	770785-1
8	4	Receptacle, Positive Lock, In-line	—	A25754-ND	9.44	36.63	770784-1
5	3	Plug, In-line	—	A25774-ND	3.71	14.39	770276-1
6	4	Plug, In-line	—	A25522-ND	6.91	26.81	770336-1
7	6	Plug, Matrix	—	A25523-ND	4.99	19.36	770361-1
8	2	Plug, Positive Lock, In-line	—	A25515-ND	3.52	13.66	770425-1
8	3	Plug, Positive Lock, In-line	—	A25516-ND	5.39	20.89	770783-1
8	4	Plug, Positive Lock, In-line	—	A25755-ND	11.37	44.09	770810-1
		Panel-Mount — .250” (6.35mm) Centerline Spacing					
5	3	Receptacle, In-line	—	A25770-ND	3.63	14.08	770269-1
6	4	Receptacle, In-line	—	A25517-ND	7.11	27.57	770329-1
7	6	Receptacle, Matrix	—	A25518-ND	6.15	23.85	770372-1
5	3	Plug, In-line	—	A25773-ND	10.00	38.77	770338-1
6	4	Plug, In-line	—	A25520-ND	6.91	26.81	770330-1
7	6	Plug, Matrix	—	A25521-ND	5.18	20.11	770373-1

◊ 2 position has centerline .248

Description	Digi-Key Part No.	Price Each	AMP Part No.
Tools			
Crimp Tool with Die 14-20AWG	A9818-ND	181.05	90871-1
Crimp Tool with Die 18-24AWG	A9817-ND	163.62	90872-1
PRO-CRIMPER Hand Tool without Die	A9996-ND	66.00	354940-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	51.00	675221-1
Die Set 14-20AWG use with A9996	A9953-ND	145.44	90871-2
Die Set 18-24AWG use with A9996	A9952-ND	106.05	90872-2
Contact Insertion Tool	A9998-ND	19.38	91002-1
Contact Extraction Tool	A9950-ND	42.53	318837-1

Description	Insulated Diameter Inches (mm)	Digi-Key Part No.	Loose Piece Pricing 100	Loose Piece Pricing 500	AMP Part No.	Digi-Key Part No.†	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
.093” (2.36mm) Contacts — May be used in either plug or receptacle housings.									
Pin, 18-24AWG, Brass, Pre-tin	.110 (2.79)	A14098-ND	5.34	23.08	770147-1	—	—	—	—
Socket, 18-24AWG, Brass, Pre-tin		A14096-ND	5.34	23.08	770146-1	—	—	—	—
Pin, 18-24AWG, Brass, Select Gold	.110 (2.79)	A25775-ND	26.12	112.96	770147-5	—	—	—	—
Socket, 18-24AWG, Brass, Select Gold		A25776-ND	22.98	99.39	770146-5	—	—	—	—
Pin, 14-20AWG, Brass, Pre-tin	.140 (3.56)	A14099-ND	5.34	23.08	770145-1	A14099TR-ND	4,000	25.12/M	350416-1
Socket, 14-20AWG, Brass, Pre-tin		A14097-ND	5.34	23.08	770144-1	A14097TR-ND	4,000	25.12/M	350415-1
Pin, 14-20AWG, Brass, Select Gold	.140 (3.56)	A25778-ND	26.12	112.96	770145-5	A25778TR-ND	4,000	281.24/M	350416-5
Socket, 14-20AWG, Brass, Select Gold		A25779-ND	22.98	99.39	770144-5	A25779TR-ND	4,000	271.48/M	350415-5
Socket, 14-20AWG, Phosphor Bronze, Pre-tin	.140 (3.56)	—	—	—	—	A25509TR-ND	4,000	47.20/M	350415-6
Pin, 14-20AWG, Brass, Pre-tin	.180 (4.57)	—	—	—	—	A25510TR-ND§	3,750	28.87/M	770530-1
Socket, 14-20AWG, Brass, Pre-tin		—	—	—	—	A25511TR-ND§	3,750	28.87/M	770529-1
Pin, 14-18 or (2)18AWG, Brass, Pre-tin	.180 (4.57)	—	—	—	—	A25512TR-ND‡	1,200	84.19/M	770385-1
Socket, 14-18 or (2)18AWG, Phosphor Bronze, Pre-tin		—	—	—	—	A25780TR-ND‡	1,200	197.89/M	770383-1

† Tape and Reel (TR) are also available in Cut Tape. § Contact length is .875. ‡ 0.013” (.33mm) stock thickness and accept two wires, each with maximum .180” insulation diameter

(MR) Miniature Rectangular Connectors

Product Facts: • Housings positively lock to prevent accidental disengagement • Either cap or plug housing can be mounted in same rectangular panel cutout without additional hardware • Brick red UL 94V-0 housings • Plug and cap design includes molded-in polarizing feature to assure proper mating • High density achieved through .165” (4.19mm) contact centerline spacing • Recognized under the Component Program of Underwriters Laboratories, Inc. File No. E28476 • Certified by Canadian Standards Association File No. LR 7189 • Commoning bars can be used to common adjacent pin contacts in any column or row. Maximum stack per pin is two. Use the mating socket housing to assemble the Commoning Bar unto the pins. Illustration is the proper insertion of the Commoning Bar.

Performance Characteristics:

• **Dielectric Withstanding Voltage:** 2.5 KVAC between adjacent circuits • **Insulation Resistance:** 1500MΩ minimum initial between adjacent circuits • **Voltage Rating:** 250VAC • **Contact Rating:** AWG 26-18 – Test Current 1-6 Amps

Fig. 1

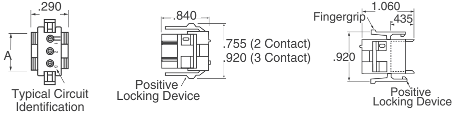

Fig. 2

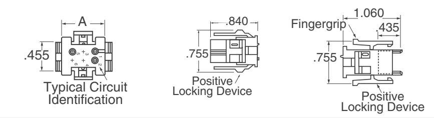

Fig. 3

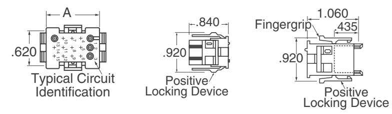

Fig. 4

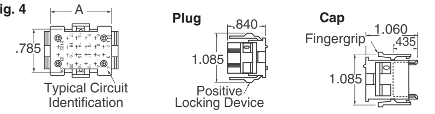

Fig. 5

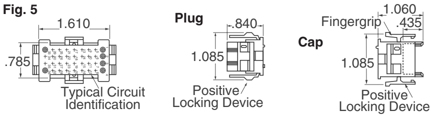

Fig. 6 - Strain Relief

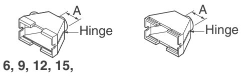

6, 9, 12, 15, & 20 Circuit

24 & 36 Circuit

Fig. 7 - Grommet

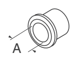

Fig. 8

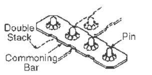

Fig. 9

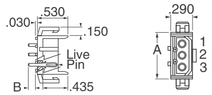

Fig. 10

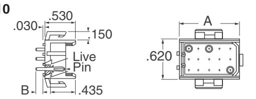

Fig. 11

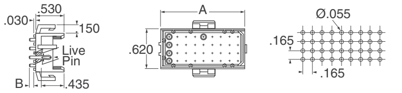

Fig. 12 - Pin

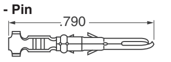

Fig. 13 - Socket

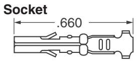

Fig. 14

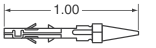

Fig. 15

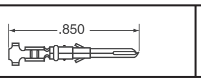

Fig. 16 Keying Plug

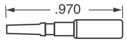

Fig.	No. of Pos.	Type	Dimension A (Inch)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
In-Line Housing (Contacts Sold Separately) — RoHS Compliant							
1	2	Cap	.455	A14100-ND	.60	13.48	1-640507-0
	3	Cap	.620	A14101-ND	.88	19.82	1-640508-0
	2	Plug	.455	A14110-ND	.43	9.68	1-640517-0
	3	Plug	.620	A14111-ND	.86	19.54	1-640518-0
Matrix Housing (Contacts Sold Separately) — RoHS Compliant							
2	4	Cap	.455	A14102-ND	.95	21.40	1-640509-0
	6	Cap	.620	A14103-ND	1.07	24.20	1-640510-0
	4	Plug	.455	A14112-ND	.80	18.17	1-640519-0
	6	Plug	.620	A14113-ND	.70	15.80	1-640520-0
3	9	Cap	.620	A14104-ND	1.14	25.92	1-640511-0
	12	Cap	.785	A14105-ND	1.27	28.86	1-640512-0
	15	Cap	.950	A14106-ND	1.40	31.77	1-640513-0
	9	Plug	.620	A14114-ND	1.04	23.47	1-640521-0
	12	Plug	.785	A14115-ND	1.27	28.72	1-640522-0
	15	Plug	.950	A14116-ND	1.36	30.81	1-640523-0
4	20	Cap	.950	A14107-ND	2.22	50.23	1-640514-0
	24	Cap	1.115	A14108-ND	2.36	53.41	1-640515-0
	20	Plug	.950	A14117-ND	2.22	50.28	1-640524-0
	24	Plug	1.115	A14118-ND	2.37	53.56	1-640525-0
5	36	Cap	—	A14109-ND	2.96	66.93	1-640516-0
	36	Plug	—	A14119-ND	2.45	55.48	1-640526-0

Fig.	No. of Positions	Dimension A (Inch)	Digi-Key Part No.	Pricing		AMP Part No.
				1	25	
Strain Relief (Grommet – Sold Separately) — RoHS Compliant						
6	6	.374	A14120-ND	2.51	54.14	350373-1
	9	.420	A14121-ND	1.89	40.81	350522-1
	12	.420	A14122-ND	2.39	51.45	350374-1
	15	.420	A14123-ND	3.63	78.19	350523-1
	20	.560	A14124-ND	3.75	80.83	480634-1
	24	.560	A14125-ND	3.83	82.58	350524-1
	36	.560	A14126-ND	5.04	108.58	480594-1
Adapting Grommet (Flexible PVC – Black) — RoHS Compliant						
7	6	.156	A33358-ND	1.39	30.04	2-350377-0
		.218	A34928-ND	1.66	35.75	2-350376-0
		.296	A33156-ND	1.33	28.72	2-350375-0
	9, 12, 15	.218	A33359-ND	1.36	29.39	2-350378-1
		.250	A33157-ND	1.35	29.13	2-350379-1
	20, 24, 36	.312	A33154-ND	1.81	39.03	2-380937-0
		.375	A33158-ND	1.42	30.59	2-380936-0
		.437	A32609-ND	1.48	31.95	2-380935-0

Fig.	Description	Length	Digi-Key Part No.	Pricing		AMP Part No.
				1	25	
Commoning Bar — RoHS Compliant						
8	2 Circuit, Brass, Pre-tin	.305	A25449-ND	.10	2.25	350020-1
	3 Circuit, Brass, Pre-tin	.470	A25450-ND	.12	2.52	350021-1
	4 Circuit, Brass, Pre-tin	.635	A25451-ND	.12	2.52	350022-1

Fig.	No. of Pos.	Plating	Dim. (Inch)		Digi-Key Part No.	Pricing		AMP Part No.
			A	B		1	25	
PCB Board Vertical Headers, .062” (1.57mm) (Mate with Plugs) Board Thickness								
9	2	Tin	.455	.120	A14200-ND◆	.89	20.13	640497-1
	2	Gold	.455	.120	A14201-ND	2.69	60.60	640497-2
	2	Gold	.455	.120	A33360-ND◆	2.52	56.71	2-640497-2
	3	Tin	.620	.120	A14202-ND◆	1.34	30.04	640498-1
	3	Gold	.620	.120	A14203-ND	3.99	89.82	640498-2
	3	Gold	.620	.120	A33361-ND◆	3.74	84.05	2-640498-2
	4	Tin	.455	.120	A14204-ND◆	2.46	55.31	640499-1
	4	Gold	.455	.120	A33362-ND◆	4.67	104.98	2-640499-2
	6	Tin	.620	.120	A14206-ND◆	2.45	55.08	640500-1
	6	Gold	.620	.120	A14207-ND	6.84	153.97	640500-2
	6	Gold	.620	.120	A33363-ND◆	6.40	144.08	2-640500-2
10	9	Tin	.620	.120	A14208-ND◆	3.18	71.54	640501-1
	9	Gold	.620	.120	A14209-ND	9.49	213.59	640501-2
	9	Gold	.620	.120	A33364-ND◆	8.88	199.87	2-640501-2
	12	Tin	.785	.120	A14210-ND◆	4.09	91.94	640502-1
	12	Gold	.785	.120	A14211-ND	11.03	248.11	640502-2
10	12	Gold	.785	.120	A33365-ND◆	10.32	232.18	2-640502-2
	15	Tin	.950	.120	A14212-ND◆	5.00	112.48	640503-1
	15	Gold	.950	.120	A14213-ND	14.93	335.94	640503-2
	15	Gold	.950	.120	A33366-ND◆	13.97	314.37	2-640503-2
11	20	Tin	.950	.120	A14214-ND◆	6.49	146.01	640504-1
	20	Gold	.950	.120	A14215-ND	19.69	442.97	640504-2
	20	Gold	.950	.120	A33367-ND◆	18.42	414.52	2-640504-2
	24	Tin	1.115	.120	A14216-ND◆	7.22	162.52	640505-1
	24	Gold	1.115	.120	A33368-ND◆	20.45	460.07	2-640505-2
	36	Tin	1.610	.120	A14218-ND◆	11.70	263.27	640506-1
	36	Gold	1.610	.120	A14219-ND	41.47	933.17	640506-2
	36	Gold	1.610	.120	A33369-ND◆	38.81	873.24	2-640506-2
PCB Board Vertical Headers, .120” (3.05mm) (Mate with Plugs) Board Thickness								
9	2	Tin	.455	.180	A14220-ND◆	2.03	45.67	640497-3
	2	Gold	.455	.180	A14221-ND	2.69	60.60	640497-4
	2	Gold	.455	.180	A33370-ND◆	2.52	56.71	2-640497-4
	3	Tin	.620	.180	A14222-ND◆	2.14	48.18	640498-3
	3	Gold	.620	.180	A14223-ND	3.99	89.82	640498-4
	3	Gold	.620	.180	A33371-ND◆	3.74	84.05	2-640498-4
	4	Tin	.455	.180	A14224-ND◆	2.50	56.29	640499-3
	4	Gold	.455	.180	A14225-ND	4.99	112.18	640499-4
	4	Gold	.455	.180	A33372-ND◆	4.67	104.98	2-640499-4
	6	Tin	.620	.180	A14226-ND◆	2.45	55.08	640500-3
	6	Gold	.620	.180	A14227-ND	6.84	153.97	640500-4
	6	Gold	.620	.180	A33373-ND◆	6.40	144.08	2-640500-4
10	9	Tin	.620	.180	A14228-ND◆	3.18	71.54	640501-3
	9	Gold	.620	.180	A14229-ND	7.81	175.66	640501-4
	9	Gold	.620	.180	A33374-ND◆	7.31	164.38	2-640501-4
	12	Tin	.785	.180	A14230-ND◆	4.09	91.94	640502-3
	12	Gold	.785	.180	A14231-ND	12.31	276.99	640502-4
	12	Gold	.785	.180	A33375-ND◆	11.52	259.20	2-640502-4
	15	Tin	.950	.180	A14232-ND◆	5.00	112.48	640503-3
	15	Gold	.950	.180	A14233-ND	14.98	337.15	640503-4
	15	Gold	.950	.180	A33376-ND◆	14.02	315.49	2-640503-4
11	20	Tin	.950	.180	A14234-ND◆	6.49	146.01	640504-3
	20	Gold	.950	.180	A14235-ND	19.69	442.97	640504-4
	20	Gold	.950	.180	A33377-ND◆	18.42	414.52	2-640504-4
	24	Tin	1.115	.180	A14236-ND◆	7.22	162.52	640505-3
	24	Gold	1.115	.180	A14237-ND	19.78	445.07	640505-4
	24	Gold	1.115	.180	A33378-ND◆	18.51	416.49	2-640505-4
	36	Tin	1.610	.180	A14238-ND◆	11.70	263.27	640506-3
	36	Gold	1.610	.180	A14239-ND	41.47	933.17	640506-4
	36	Gold	1.610	.180	A33379-ND◆	38.81	873.24	2-640506-4

Fig.	Description	Ins. Dia. Range Inches	Digi-Key Part No.	Pricing		AMP Part No.
				25	100	
Contacts: Pins (for Caps) and Sockets (for Plugs) — RoHS Compliant						
12	Live Split Pin, 24~26AWG, Phos. Brz., Pre-tin	.025 ~ .050	A25440-ND	7.45	18.36	640579-1
13	Std. Socket, 24~26AWG, Phos. Brz., Pre-tin	.025 ~ .050	A25441-ND	7.15	17.63	794001-1
12	Live Split Pin, 24~26AWG, Phos. Brz., Select Gold	.025 ~ .050	A25444-ND	29.42	72.56	640579-2
13	Std. Socket, 24~26AWG, Phos. Brz., Select Gold	.025 ~ .050	A25445-ND	28.29	69.78	794001-2
12	Live Split Pin, 18~26AWG, Phos. Brz., Pre-tin	.050 ~ .115	A14199-ND	5.28	13.02	640545-1
13	Std. Socket, 18~26AWG, Phos. Brz., Pre-tin	.050 ~ .115	A14197-ND	7.01	17.29	641300-1
12	Live Split Pin, 18~26AWG, Phos. Brz., Select Gold	.050 ~ .115	A14198-ND	15.87	39.14	640545-2
13	Std. Socket, 18~26AWG, Phos. Brz., Select Gold	.050 ~ .115	A14196-ND	14.61	36.04	641300-2
14	Solder Tail Socket, Phos. Brz., Pre-tin	—	A25447-ND‡	7.86	19.40	350838-1
15	Grounding Pin, Phos. Brz., Pre-tin	.050 ~ .115	A25442-ND	7.45	18.36	640580-1
	Grounding Pin, Phos. Brz., Select Gold	.050 ~ .115	A25446-ND	29.76	73.41	640580-2
Keying Plug — RoHS Compliant						
16	—		A14195-ND	—	57.09	350591-1
Tools						
	Die Set MR, Use with A9996		A9949-ND		148.47/1	58514-2
	PRO-CRIMPER III Hand Tool		A9996-ND		66.00/1	354940-1
	PRO-CRIMPER II/III Repair Kit		A34584-ND		51.00/1	679221-1
	Extraction Tool		A9954-ND		17.06/1	455822-2
	Certi-Crimp Tool MR		A9938-ND		551.57/1	91526-1
	Contact Insertion Tool		A1444-ND		17.06/1	455830-1
	PRO-CRIMPER III Hand Tool/Die Set		A25448-ND		179.99/1	58514-1

‡ Recommended for use with MR Socket Housings ◆ ***RoHS Compliant***

929 Series: • Material: Glass filled polyester (PBT) • Flammability: 94V-0 • Color: Black • Contact Material: Copper Alloy • Withstanding Voltage: 1000Vrms • Temperature Rating: -40°C ~ 100°C • UL File No. E68080
Plating Options: • 10µ" gold, 200µ" matte tin or 100µ" tin-lead

Fig. 1 – Straight, Single Row Male

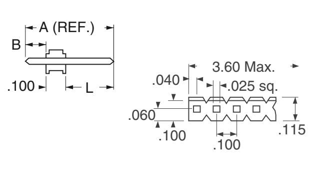

Fig. 2 – Straight, Dual Row Male (.1" x .1" Matrix)

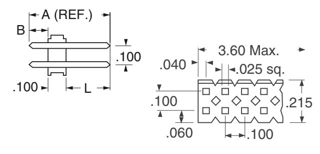

Fig. 3 – Right Angle, Single Row Male

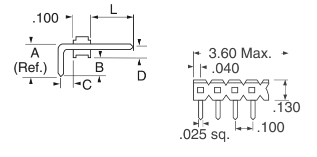

Fig. 4 – Right Angle, Dual Row Male (.1" x .1" Matrix)

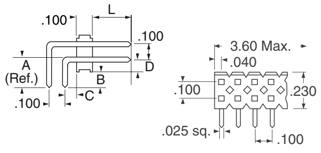

Fig. 5 – Right Angle, Single Row Polarized Male (36 Positions)

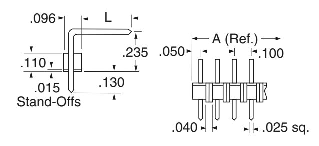

Fig. 6 – Straight, Single Row Female

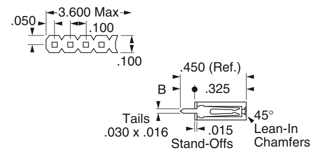

Fig. 7 – Straight, Dual Row Female (.1" x .1" Matrix)

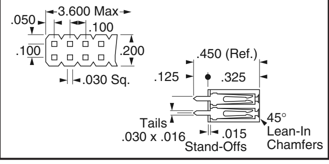

Fig. 8 – Shorting Jumpers

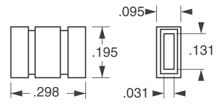

36 Pin Headers

Fig.	Plating	No. of Pins	Dimensions (Inch)					Digi-Key Part No.	Price Each		
			L	A(ref)	B	C	D		1	10	100
Straight, Single Row Male											
1	Solder	36	.235	.545	.210	—	—	929834-02-36-ND	1.80	1.61	1.33
	Tin		.235	.545	.210	—	—	929834E-02-36-ND◆	1.80	1.61	1.33
	Solder		.235	.745	.410	—	—	929834-03-36-ND	2.17	1.94	1.60
	Tin		.235	.745	.410	—	—	929834E-03-36-ND◆	2.17	1.94	1.60
	Solder		.235	.845	.510	—	—	929834-04-36-ND	2.39	2.15	1.77
	Tin	36	.235	.845	.510	—	—	929834E-04-36-ND◆	2.39	2.15	1.77
	Solder		.235	.945	.610	—	—	929834-05-36-ND	2.42	2.17	1.79
	Tin		.235	.945	.610	—	—	929834E-05-36-ND◆	2.42	2.17	1.79
	Solder		.235	1.245	.910	—	—	929834-07-36-ND	2.76	2.48	2.04
	Gold		.235	.480	.145	—	—	929647-09-36-ND◆	3.05	2.73	2.25
	Gold	36	.235	.545	.210	—	—	929647-02-36-ND◆	3.31	2.96	2.44
			.235	.745	.410	—	—	929647-03-36-ND◆	4.10	3.68	3.03
			.235	.845	.510	—	—	929647-04-36-ND◆	5.27	4.72	3.89
			.235	.945	.610	—	—	929647-05-36-ND◆	4.87	4.37	3.60
			.235	1.245	.910	—	—	929647-07-36-ND◆	5.67	5.08	4.18
	Solder	36	.295	.535	.130	—	—	929400-01-36-ND	1.80	1.61	1.33
	Tin		.295	.535	.130	—	—	929400E-01-36-ND◆	1.80	1.61	1.33
	Gold		.295	.535	.130	—	—	929450-01-36-ND◆	3.19	2.86	2.36
Straight, Dual Row Male											
2	Solder	72	.235	.480	.145	—	—	929836-09-36-ND	3.39	3.04	2.50
	Tin		.235	.480	.145	—	—	929836E-09-36-ND◆	3.39	3.04	2.50
	Solder		.235	.545	.210	—	—	929836-02-36-ND	2.94	2.63	2.17
	Tin		.235	.545	.210	—	—	929836E-02-36-ND◆	2.94	2.63	2.17
	Solder		.235	.645	.310	—	—	929836-08-36-ND	3.79	3.40	2.80
	Tin	72	.235	.645	.310	—	—	929836E-08-36-ND◆	3.79	3.40	2.80
	Tin		.235	.745	.410	—	—	929836E-03-36-ND◆	3.51	3.14	2.59
	Tin		.235	.845	.510	—	—	929836E-04-36-ND◆	3.88	3.47	2.86
	Solder		.235	.945	.610	—	—	929836-05-36-ND	3.68	3.29	2.71
	Tin		.235	.945	.610	—	—	929836E-05-36-ND◆	3.68	3.29	2.71
	Gold	72	.235	.480	.145	—	—	929665-09-36-ND◆	4.93	4.42	3.64
			.235	.545	.210	—	—	929665-02-36-ND◆	5.36	4.80	3.95
			.235	.645	.310	—	—	929665-08-36-ND◆	5.79	5.18	4.27
			.235	.745	.410	—	—	929665-03-36-ND◆	6.61	5.92	4.88
			.235	.845	.510	—	—	929665-04-36-ND◆	8.49	7.60	6.26
			.235	.945	.610	—	—	929665-05-36-ND◆	9.15	8.19	6.75
	Solder	72	.318	.593	.175	—	—	929710-10-36-ND	3.08	2.76	2.27
	Tin		.318	.593	.175	—	—	929710E-10-36-ND◆	3.08	2.76	2.27
	Tin		.318	.828	.410	—	—	929710E-03-36-ND◆	4.39	3.93	3.24
	Gold		.318	.593	.175	—	—	929715-10-36-ND◆	5.64	5.05	4.16
	Gold		.318	.828	.410	—	—	929715-03-36-ND◆	7.35	6.58	5.42
Right Angle, Single Row Male											
3	Solder	36	.235	.185	.110	.070	.075	929835-01-36-ND	1.82	1.64	1.35
	Tin		.235	.185	.110	.070	.075	929835E-01-36-ND◆	1.82	1.64	1.35
Right Angle, Dual Row Male											
4	Solder	72	.235	.220	.145	.070	.075	929838-04-36-ND	3.76	3.37	2.78
	Tin		.235	.220	.145	.070	.075	929838E-04-36-ND◆	3.76	3.37	2.78
	Solder		.235	.480	.405	.070	.075	929838-02-36-ND	3.79	3.40	2.80
	Tin		.235	.480	.405	.070	.075	929838E-02-36-ND◆	3.79	3.40	2.80
	Gold		.235	.220	.145	.070	.075	929667-04-36-ND◆	7.07	6.33	5.21
	Gold		.235	.480	.405	.070	.075	929667-02-36-ND◆	8.49	7.60	6.26
Right Angle, Single Row Polarized Male											
5	Solder	36	.295	3.600	—	—	—	929500-01-36-ND	2.00	1.79	1.47
	Tin		.295	3.600	—	—	—	929500E-01-36-ND◆	2.00	1.79	1.47
	Gold		.295	3.600	—	—	—	929550-01-36-ND	3.96	3.55	2.92
	Gold		.295	3.600	—	—	—	929550E-01-36-ND◆	3.96	3.55	2.92
Straight, Single Row Female											
6	Solder	36	—	—	.125	—	—	929974-01-36-ND	2.57	2.30	1.89
	Tin		—	—	.125	—	—	929974E-01-36-ND◆	2.57	2.30	1.89
	Gold		—	—	.125	—	—	929850-01-36-ND	3.31	2.96	2.44
	Gold		—	—	.125	—	—	929850E-01-36-ND◆	3.31	2.96	2.44
Straight, Dual Row Female											
7	Solder	72	—	—	—	—	—	929975-01-36-ND	4.45	3.98	3.28
	Tin		—	—	—	—	—	929975E-01-36-ND◆	4.45	3.98	3.28
	Gold		—	—	—	—	—	929852-01-36-ND	6.33	5.67	4.67
	Gold		—	—	—	—	—	929852E-01-36-ND◆	6.33	5.67	4.67
Shorting Jumpers											
8	Solder Plated							929950-00-ND◆		2.29/10	
	10µ Gold Plated							929955-06-ND◆		2.70/10	
	30µ Gold Plated							929957-08-ND◆		3.12/10	

◆ *RoHS Compliant*

1-35 Pin Headers

Step 1 Digi-Key Part No.*	Step 2 Base Price	Step 3 Pin Adder
Straight, Single Row Male		
929834-02-XX-ND	.55	.04
929834E-02-XX-ND◆	.55	.04
929834-03-XX-ND	.94	.04
929834E-03-XX-ND◆	.94	.04
929834-04-XX-ND	.83	.05
929834E-04-XX-ND◆	.83	.05
929834-05-XX-ND	.87	.05
929834E-05-XX-ND◆	.87	.05
929834-07-XX-ND	.89	.06
929647-09-XX-ND◆	1.19	.06
929647-02-XX-ND◆	1.13	.07
929647-03-XX-ND◆	1.63	.08
929647-04-XX-ND◆	1.85	.11
929647-05-XX-ND◆	1.76	.10
929647-07-XX-ND◆	2.27	.11
929400-01-XX-ND	.55	.04
929400E-01-XX-ND◆	.55	.04
929450-01-XX-ND◆	1.34	.06
Straight, Dual Row Male		
929836-09-XX-ND	1.55	.06
929836E-09-XX-ND◆	1.55	.06
929836-02-XX-ND	1.42	.05
929836E-02-XX-ND◆	1.42	.05
929836-08-XX-ND	1.64	.07
929836E-08-XX-ND◆	1.64	.07
929836E-03-XX-ND◆	1.34	.07
929836E-04-XX-ND◆	1.73	.07
929836-05-XX-ND	1.52	.07
929836E-05-XX-ND◆	1.52	.07
929665-09-XX-ND◆	1.83	.10
929665-02-XX-ND◆	2.28	.10
929665-08-XX-ND◆	2.40	.11
929665-03-XX-ND◆	2.59	.13
929665-04-XX-ND◆	3.22	.17
929665-05-XX-ND◆	3.58	.18
929710-10-XX-ND	1.22	.06
929710E-10-XX-ND◆	1.22	.06
929710E-03-XX-ND◆	1.93	.08
929715-10-XX-ND◆	2.24	.11
929715-03-XX-ND◆	3.03	.14
Right Angle, Single Row Male		
929835-01-XX-ND	.57	.04
929835E-01-XX-ND◆	.57	.04
Right Angle, Dual Row Male		
929838-04-XX-ND	1.61	.07
929838E-04-XX-ND◆	1.61	.07
929838-02-XX-ND	1.64	.07
929838E-02-XX-ND◆	1.64	.07
929667-04-XX-ND◆	2.73	.14
929667-02-XX-ND◆	3.22	.17
Right Angle, Single Row Polarized Male		
929500-01-XX-ND	.76	.04
929500E-01-XX-ND◆	.76	.04
929550-01-XX-ND	1.48	.08
929550E-01-XX-ND◆	1.48	.08
Straight, Single Row Female		
929974-01-XX-ND	1.02	.05
929974E-01-XX-ND◆	1.02	.05
929850-01-XX-ND	1.13	.07
929850E-01-XX-ND◆	1.13	.07
Straight, Dual Row Female		
929975-01-XX-ND	1.66	.09
929975E-01-XX-ND◆	1.66	.09
929852-01-XX-ND	2.63	.12
929852E-01-XX-ND◆	2.63	.12

* Replace XX in the Digi-Key part number with your desired number of pins per row.

HOW TO ORDER:
4 EASY STEPS

How do I order a 929834-02 header with 16 pins?

Call Digi-Key for pricing, or determine the cost yourself following the steps below.

929 □□□ - □□ - □□ - ND

Base Part Number

Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate "Base Price" of your selected part number (refer to chart).

Step 3. Multiply the number of pins you desire (minus one) by the "Pin Adder" of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1. 929834-02-16-ND
Step 2. .55 *(1 pin – Base Price)*
Step 3. 15 x .04 = .60 *(15 pins – Pin Adder)*
Step 4. Your Cost = $1.15 *(16 pins – Total)*

Your Digi-Key Part Number:

Step 1. 929□□□-□□-□□-ND
Step 2.
____ x ____ = _____
Step 3.
Step 4. Your Cost = $ _____

***NOTE:* For quantities of 10 or more, call DIGI-KEY.**

AMPMODU MT Connectors

IDC CRIMP TYPE CONNECTOR/COVER FEATURES: • Receptacle connectors .100" (2.54mm) centers • Housings preloaded with standard and high pressure contacts • Insulation Diameter: .050" (1.27mm) • Mating Post Length: .222" to .273" (5.64mm to 6.94mm) maximum • Housing and Cover: Black thermoplastic, flame retardant • Contacts: Copper alloy

RECEPTACLE HOUSING FEATURES: • Choice of three contact mating pressures • Receptacles mate with .025" (.64mm) square or round posts • Capable of connecting up to 100 wires simultaneously • Black thermoplastic or glass-filled nylon • Available in single and double row configurations in .100" (2.54mm) centerline spacing • Stamped: Cavity ID, AMP part number and date code stamped on housing where size permits. Unstamped: No marking on housing

Fig. 1

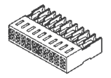

Fig. 2

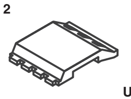

Fig. 3

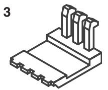

Fig. 4

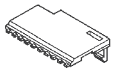

Use with IDC Crimp Type Housing - Fig 1

Fig. 5

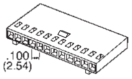

Fig. 6

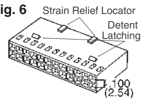

Fig. 7

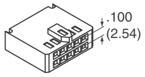

No. of Positions	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
IDC CRIMP TYPE — HOUSING AND COVERS				
26-30 AWG Housing With Standard Contacts — Fig. 1				
6	A25789-ND	2.57	58.20	102393-1
6	A33380-ND◆	2.44	55.20	5-102393-1
8	A25790-ND	3.29	74.40	102393-2
8	A33381-ND◆	3.05	69.00	5-102393-2
10	A25791-ND	3.79	85.80	102393-3
10	A33382-ND◆	3.58	81.00	5-102393-3
12	A25793-ND	4.53	102.60	102393-4
12	A34929-ND◆	4.24	96.00	5-102393-4
14	A25795-ND	5.25	118.80	102393-5
14	A34930-ND◆	4.90	111.00	5-102393-5
16	A25797-ND	7.02	159.00	102393-6
16	A33383-ND◆	6.57	148.80	5-102393-6
18	A25799-ND	9.57	216.60	102393-7
18	A34931-ND◆	8.93	202.20	5-102393-7
20	A33384-ND◆	6.97	157.80	5-102393-8
24	A28321-ND	9.06	205.20	1-102393-0
24	A34935-ND◆	8.45	191.40	6-102393-0
26	A28697-ND	7.76	175.80	1-102393-1
26	A33385-ND◆	7.26	164.40	6-102393-1
30	A28702-ND	11.26	255.00	1-102393-3
30	A33386-ND◆	10.57	239.40	6-102393-3
34	A28705-ND	12.72	288.00	1-102393-5
34	A34937-ND◆	11.90	269.40	6-102393-5
40	A33387-ND◆	10.49	237.60	6-102393-8
50	A28708-ND	13.57	307.20	2-102393-3
50	A33418-ND◆	12.69	287.40	7-102393-3
22-26 AWG Housing With Standard Contacts — Fig. 1				
6	A3047-ND	2.78	63.00	102398-1
6	A33388-ND◆	2.62	59.40	5-102398-1
8	A3048-ND	3.50	79.20	102398-2
8	A33389-ND◆	3.26	73.80	5-102398-2
10	A3049-ND	3.79	85.80	102398-3
10	A33390-ND◆	3.58	81.00	5-102398-3
12	A3050-ND	4.53	102.60	102398-4
12	A33391-ND◆	4.24	96.00	5-102398-4
14	A3051-ND	5.25	118.80	102398-5
14	A33392-ND◆	4.90	111.00	5-102398-5
16	A3052-ND	5.38	121.80	102398-6
16	A33393-ND◆	5.04	114.00	5-102398-6
18	A3053-ND	5.51	124.80	102398-7
18	A33394-ND◆	5.17	117.00	5-102398-7
20	A3054-ND	7.42	168.00	102398-8
20	A33395-ND◆	6.76	153.00	5-102398-8
24	A3055-ND	9.06	205.20	1-102398-0
24	A33396-ND◆	8.45	191.40	6-102398-0
26	A28698-ND	7.02	159.00	1-102398-1
26	A33397-ND◆	6.39	144.60	6-102398-1
28	A28701-ND	10.52	238.20	1-102398-2
28	A33398-ND◆	9.83	222.60	6-102398-2
30	A28703-ND	11.26	255.00	1-102398-3
30	A33399-ND◆	10.57	239.40	6-102398-3
34	A3057-ND	12.72	288.00	1-102398-5
34	A33400-ND◆	11.90	269.40	6-102398-5
40	A3058-ND	11.18	253.20	1-102398-8
40	A33401-ND◆	10.49	237.60	6-102398-8
50	A3059-ND	13.57	307.20	2-102398-3
50	A33402-ND◆	12.69	287.40	7-102398-3
60	A3060-ND	15.98	361.80	2-102398-8
60	A33403-ND◆	14.97	339.00	7-102398-8
64	A3061-ND	23.98	543.00	3-102398-0
64	A34939-ND◆	22.50	509.40	8-102398-0
22-26 AWG Housing With High Pressure Contacts — Fig. 1				
6	A28711-ND	2.78	63.00	102694-1
6	A33404-ND◆	2.62	59.40	5-102694-1
8	A28712-ND	3.29	74.40	102694-2
8	A33405-ND◆	3.05	69.00	5-102694-2
10	A28713-ND	4.53	102.60	102694-3
10	A33406-ND◆	4.24	96.00	1-102694-0
12	A28714-ND	4.53	102.60	102694-4
12	A33407-ND◆	4.24	96.00	5-102694-4
14	A28715-ND	7.37	166.80	102694-5
14	A33408-ND◆	6.92	156.60	5-102694-5
20-22 AWG Housing With Standard Contacts — Fig. 1				
10	A33409-ND◆	3.58	81.00	5-102448-3
12	A25794-ND	4.53	102.60	102448-4
12	A34932-ND◆	4.24	96.00	5-102448-4
14	A33410-ND◆	4.90	111.00	5-102448-5
16	A25798-ND	6.04	136.80	102448-6
18	A25800-ND	6.73	152.40	102448-7
18	A33412-ND◆	6.33	143.40	5-102448-7
20	A25762-ND	7.42	168.00	102448-8
20	A33413-ND◆	6.97	157.80	5-102448-8
24	A28696-ND	9.06	205.20	1-102448-0
24	A33414-ND◆	8.45	191.40	6-102448-0
26	A28699-ND	7.76	175.80	1-102448-1
26	A33415-ND◆	7.26	164.40	6-102448-1
30	A28704-ND	11.26	255.00	1-102448-3
40	A28707-ND	14.55	329.40	1-102448-8
40	A33417-ND◆	13.25	300.00	6-102448-8

No. of Positions	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
50	A28709-ND	13.57	307.20	2-102448-3
50	A33419-ND◆	12.69	287.40	7-102448-3
A2031-ND	Manual Pistol Grip Tool - use with Head Assembly $58.28			
A2040-ND	Head Assembly Tool for AMP MT Connector $289.80			
Low Profile Non-Polarizing — Front Cover Fig. 2 (designed for shielded connectors) RoHS Compliant				
6	A28719-ND	.37	8.41	102541-1
8	A28720-ND	.65	14.62	102541-2
10	A28721-ND	.37	8.41	102541-3
12	A28722-ND	.62	13.95	102541-4
14	A28723-ND	.63	14.20	102541-5
16	A28724-ND	.47	10.61	102541-6
18	A28725-ND	1.30	29.45	102541-7
20	A28726-ND	1.45	32.72	102541-8
24	A28727-ND	.70	15.91	1-102541-0
26	A28728-ND	1.07	24.31	1-102541-1
28	A28729-ND	1.26	28.53	1-102541-2
30	A28730-ND	.88	19.89	1-102541-3
34	A28731-ND	1.10	24.89	1-102541-5
40	A28732-ND	2.10	47.47	1-102541-8
50	A29145-ND	1.96	44.29	2-102541-3
60	A28733-ND	2.34	52.88	2-102541-8
64	A28734-ND	2.64	59.84	3-102541-0
Shielding and Non-Shielding - Back Cover — Fig. 3 RoHS Compliant				
6	A28735-ND	.37	8.41	102536-1
8	A28736-ND	1.04	23.57	102536-2
10	A28737-ND	.41	9.35	102536-3
12	A28738-ND	1.05	23.78	102536-4
14	A28739-ND	1.06	23.89	102536-5
16	A28740-ND	1.13	25.68	102536-6
18	A28741-ND	1.05	23.87	102536-7
20	A28742-ND	.59	13.26	102536-8
26	A28744-ND	.76	17.24	1-102536-1
28	A28745-ND	1.26	28.51	1-102536-2
30	A28746-ND	1.28	29.04	1-102536-3
34	A28747-ND	1.34	30.34	1-102536-5
40	A28748-ND	1.94	43.84	1-102536-8
50	A28749-ND	2.07	46.95	2-102536-3
60	A28750-ND	2.21	50.05	2-102536-8
64	A28751-ND	2.27	51.29	3-102536-0
Standard Profile Covers — Fig. 4 (2 required per connector) — RoHS Compliant				
6	A3062-ND	2.41/2	54.66/50	102396-1
8	A3063-ND	2.84/2	64.25/50	102396-2
10	A3064-ND	3.08/2	69.63/50	102396-3
12	A3065-ND	3.31/2	75.02/50	102396-4
14	A3066-ND	5.36/2	121.36/50	102396-5
16	A3067-ND	2.15/2	48.78/50	102396-6
18	A3068-ND	1.34/2	30.27/50	102396-7
20	A3069-ND	4.11/2	93.09/50	102396-8
24	A3070-ND	4.58/2	103.74/50	1-102396-0
26	A28752-ND	3.36/2	76.02/50	1-102396-1
30	A28753-ND	2.48/2	56.10/50	1-102396-3
34	A3072-ND	2.81/2	63.65/50	1-102396-5
40	A3073-ND	3.30/2	74.79/50	1-102396-8
50	A3074-ND	5.86/2	132.60/50	2-102396-3
64	A3076-ND	3.75/2	84.86/50	3-102396-0
Keying Plug	A3077-ND	2.05/10	9.27/50	86286-1
SINGLE ROW HOUSING — NON-POLARIZED FIG. 5 (order contacts separately)				
Stamped — RoHS Compliant				
2	A3011-ND	1.19	26.85	87499-3
3	A3012-ND	.84	19.02	87499-5
4	A3013-ND	.74	16.78	87499-7
5	A3014-ND	.59	13.42	87499-9
6	A3015-ND	.74	16.78	1-87499-1
7	A3016-ND	.99	22.37	87499-1
8	A3017-ND	.82	18.61	1-87499-3
9	A3018-ND	1.04	23.49	1-87499-5
10	A3019-ND	.94	21.25	1-87499-7
11	A3020-ND	2.22	50.34	1-87499-9
12	A3021-ND	.99	22.37	2-87499-1
13	A3022-ND	1.33	30.20	2-87499-3
14	A3023-ND	1.19	26.85	2-87499-5
15	A3024-ND	1.24	27.97	2-87499-7
16	A3025-ND	1.28	29.09	2-87499-9
20	A3029-ND	1.53	34.68	3-87499-7
Unstamped — RoHS Compliant				
1	A26962-ND	.40	8.95	7-87499-2
2	A26963-ND	.44	10.07	87499-4
3	A26964-ND	.49	11.19	87499-6
4	A26965-ND	.54	12.31	87499-8
5	A26966-ND	.59	13.42	1-87499-0
6	A26967-ND	.64	14.54	1-87499-2
7	A26968-ND	.79	17.90	87499-2
8	A26969-ND	.79	17.90	1-87499-4
9	A26970-ND	.89	20.14	1-87499-6
10	A26971-ND	.89	20.14	1-87499-8
11	A26972-ND	1.98	44.75	2-87499-0
13	A26974-ND	1.14	25.73	2-87499-4
14	A26975-ND	1.09	24.61	2-87499-6
15	A26976-ND	1.19	26.85	2-87499-8
16	A26977-ND	2.62	59.29	3-87499-0

No. of Positions	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
18	A3027-ND	1.33	30.20	3-87499-4
20	A26978-ND	1.43	32.44	3-87499-8
22	A26979-ND	1.58	35.80	4-87499-2
26	A26980-ND	1.93	43.63	5-87499-0
30	A26981-ND	2.22	50.34	5-87499-8
SINGLE ROW HOUSING — POLARIZED FIG. 5 (order contacts separately)				
Stamped with Detent Latching — RoHS Compliant				
3	A26982-ND	.40	8.95	102241-1
4	A26983-ND	.44	10.07	102241-2
5	A26984-ND	.49	11.19	102241-3
6	A26985-ND	.54	12.31	102241-4
7	A26986-ND	.59	13.42	102241-5
8	A26987-ND	.64	14.54	102241-6
9	A26988-ND	.69	15.66	102241-7
10	A26989-ND	.79	17.90	102241-8
12	A26990-ND	.89	20.14	1-102241-0
14	A26991-ND	.99	22.37	1-102241-2
15	A26992-ND	1.14	25.73	1-102241-3
16	A26993-ND	1.38	31.32	1-102241-4
18	A26994-ND	1.43	32.44	1-102241-6
20	A26995-ND	1.43	32.40	1-102241-8
22	A26996-ND	1.53	34.68	2-102241-0
DOUBLE ROW HOUSING — NON-POLARIZED Without Locator/Latches FIG. 6 (order contacts separately)				
Stamped, Housing Height is .600" (15.24mm) RoHS Compliant				
4	A26998-ND	1.43	32.44	5-87456-0
6	A26999-ND	1.48	33.56	87456-2
10	A3034-ND	1.58	35.80	87456-6
12	A3035-ND	1.68	38.03	87456-8
14	A3036-ND	1.73	39.15	1-87456-0
16	A3037-ND	1.83	41.39	1-87456-2
18	A3038-ND	2.62	59.29	1-87456-4
20	A3039-ND	2.17	49.22	1-87456-6
24	A3040-ND	2.82	63.77	2-87456-0
26	A3041-ND	2.57	58.17	2-87456-2
28	A3042-ND	2.82	63.77	2-87456-4
30	A25819-ND	3.36	76.07	2-87456-6
34	A3043-ND	3.41	77.19	3-87456-0
40	A3044-ND	3.85	87.26	3-87456-6
50	A3045-ND	4.64	105.16	4-87456-0
60	A3046-ND	5.14	116.40	5-87456-2
Unstamped, Housing Height is .600" (15.24mm) RoHS Compliant				
2	A26997-ND	.89	20.14	5-87456-3
4	A3031-ND	1.24	27.97	4-87456-9
6	A3032-ND	1.33	30.20	87456-1
8	A3033-ND	1.43	32.44	87456-3
10	A25804-ND	1.48	33.56	87456-5
12	A25806-ND	1.53	34.68	87456-7
14	A25807-ND	1.58	35.80	87456-9
16	A25809-ND	1.63	36.92	1-87456-1
18	A25811-ND	2.37	53.70	1-87456-3
20	A25812-ND	2.08	46.98	1-87456-5
22	A25814-ND	2.52	57.05	1-87456-7
24	A25815-ND	2.27	51.46	1-87456-9
26	A25816-ND	2.42	54.81	2-87456-1
28	A25818-ND	2.57	58.17	2-87456-3
30	A25820-ND	3.06	69.36	2-87456-5
34	A25821-ND	3.01	68.24	2-87456-9
38	A25822-ND	3.46	78.31	3-87456-3
40	A25823-ND	3.76	85.02	3-87456-5
50	A25825-ND	4.60	104.04	3-87456-9
54	A25826-ND	4.84	109.63	4-87456-5
60	A25827-ND	5.09	115.20	5-87456-1
Keying Plug	A25829-ND	.15	3.39	87077-2
Stamped, Housing Height is .645" (16.38mm) RoHS Compliant				
26	A25817-ND	6.23	141.00	86177-4
Unstamped, Housing Height is .645" (16.38mm) RoHS Compliant				
6	A25802-ND	5.38	121.80	1-86177-8
10	A25805-ND	5.49	124.20	1-86177-2
14	A25808-ND	5.57	126.00	1-86177-4
16	A25810-ND	5.72	129.60	1-86177-5
20	A25813-ND	5.86	132.60	86177-1
40	A25824-ND	8.51	192.60	1-86177-1
Keying Plug	A25828-ND	.17	3.81	87077-1
DOUBLE ROW HOUSING — POLARIZED FIG. 6 (order contacts separately)				
Stamped — RoHS Compliant				
6	A25830-ND	1.33	30.20	87977-1
8	A25832-ND	1.53	34.68	87977-2
10	A25834-ND	1.63	36.92	87977-3
12	A25836-ND	1.68	38.03	87977-4
20	A25841-ND	2.62	59.40	87977-8
24	A25843-ND	2.57	58.17	1-87977-0
26	A25845-ND	3.16	71.60	1-87977-1
Unstamped — RoHS Compliant				
6	A25831-ND	1.24	27.97	2-87977-8
8	A25833-ND	2.08	46.98	2-87977-9
10	A25835-ND	2.17	49.22	3-87977-0
12	A25837-ND	2.27	51.46	3-87977-1

◆ **RoHS Compliant**

(Continued)

No. of Positions	Digi-Key Part No.	Pricing 1	25	AMP Part No.
14	A25838-ND	2.37	53.70	3-87977-2
16	A25839-ND	2.42	54.81	3-87977-3
18	A25840-ND	2.47	55.94	3-87977-4
20	A25842-ND	2.47	55.94	3-87977-5
24	A25844-ND	2.52	57.05	3-87977-7
26	A25846-ND	2.92	66.00	3-87977-8
40	A25847-ND	3.56	80.54	4-87977-5
Stamped with Detent Latching, without Strain Relief RoHS Compliant				
6	A25848-ND	1.43	32.44	87631-2
8	A25850-ND	1.53	34.68	87631-4
10	A25852-ND	1.63	36.92	87631-6
12	A25855-ND	1.78	40.27	87631-8
14	A25858-ND	1.88	42.51	1-87631-0
16	A25861-ND	2.08	46.98	1-87631-2
18	A25864-ND	2.22	50.34	1-87631-4
20	A25867-ND	2.42	54.81	1-87631-6
24	A25871-ND	2.77	62.64	2-87631-0
26	A25874-ND	2.82	63.77	2-87631-2
28	A25877-ND	3.01	68.24	2-87631-4
30	A25879-ND	3.16	71.60	2-87631-6
32	A25882-ND	3.26	73.83	2-87631-8
34	A25885-ND	3.51	79.43	3-87631-0
40	A25888-ND	3.85	87.26	3-87631-6
50	A25892-ND	4.74	107.39	4-87631-2
60	A25895-ND	5.38	121.80	5-87631-2

No. of Positions	Digi-Key Part No.	Pricing 1	25	AMP Part No.
Unstamped with Detent Latching, without Strain Relief RoHS Compliant				
6	A25849-ND	1.24	27.97	87631-1
8	A25851-ND	1.43	32.44	87631-3
10	A25853-ND	1.48	33.56	87631-5
12	A25856-ND	1.58	35.80	87631-7
14	A25859-ND	1.63	36.92	87631-9
16	A25862-ND	1.88	42.51	1-87631-1
18	A25865-ND	1.83	41.50	1-87631-3
20	A25868-ND	2.32	52.58	1-87631-5
22	A25870-ND	2.52	57.05	1-87631-7
24	A25872-ND	2.57	58.17	1-87631-9
26	A25875-ND	2.62	59.29	2-87631-1
28	A25878-ND	2.92	66.00	2-87631-3
30	A25880-ND	2.96	67.12	2-87631-5
32	A25883-ND	3.11	70.48	2-87631-7
34	A25886-ND	3.21	72.71	2-87631-9
40	A25889-ND	3.56	80.54	3-87631-5
44	A25891-ND	3.85	87.26	3-87631-9
50	A25893-ND	4.16	94.20	4-87631-1
60	A25896-ND	5.33	120.60	5-87631-1
66	A25898-ND	5.62	127.20	5-87631-3
Stamped with Detent Latching and Strain Relief RoHS Compliant				
10	A25854-ND	3.16	71.44	87922-1
12	A25857-ND	3.20	72.55	87922-2
14	A25860-ND	3.15	71.40	87922-3

No. of Positions	Digi-Key Part No.	Pricing 1	25	AMP Part No.
16	A25863-ND	3.60	81.48	87922-4
18	A25866-ND	5.70	129.00	87922-5
20	A25869-ND	4.14	93.76	87733-1
24	A25873-ND	4.44	100.46	87733-3
26	A25876-ND	4.49	101.58	87733-4
30	A25881-ND	5.25	118.80	87733-6
32	A25884-ND	5.33	120.60	87733-7
34	A25887-ND	5.35	121.20	87733-8
40	A25890-ND	5.64	127.80	1-87733-1
50	A25894-ND	6.28	142.20	1-87733-4
60	A25897-ND	7.00	158.40	1-87733-7
A25899-ND	Strain Relief, 10 thru 18 positions .... $.61			
A25900-ND	Strain Relief, ≥20 positions $1.57			
Fig. 7 – Unstamped, Center Polarized – RoHS Compliant				
10	A25901-ND	1.68	38.03	102387-1
14	A25902-ND	1.78	40.27	102387-2
16	A25903-ND	2.08	46.98	102387-3
20	A25904-ND	2.37	53.70	102387-4
24	A25905-ND	2.57	58.17	102387-5
26	A25906-ND	2.62	59.29	102387-6
30	A25907-ND	3.01	68.24	102387-7
34	A25908-ND	3.31	74.95	102387-8
40	A25909-ND	3.66	82.78	102387-9
44	A25910-ND	4.00	90.61	1-102387-3
50	A25911-ND	4.50	101.80	1-102387-0
60	A25912-ND	4.93	111.60	1-102387-1
64	A25913-ND	5.49	124.20	1-102387-2

◆ *RoHS Compliant*

Contacts

SPECIFICATIONS: • Contact Current Rating: 3 amperes • Terminal Resistance: 12mΩ maximum (beryllium copper) and 20mΩ maximum (copper-tin-phosphor bronze)

FEATURES: Available in a variety of platings and contact pressures; Dual cantilever contact beam with built-in overstress assures reliable connection.

Contact Plating: **A:** 30µ gold on contact area, 100µ to 200µ tin-lead on crimp area, with entire contact underplated 50µ nickel **B:** 15µ gold on contact area, 100µ to 200µ tin-lead in crimp end, with entire contact underplated 50µ nickel **C:** 30µ gold on contact area, with gold flash over 50µ nickel on entire contact **D:** 15µ gold on contact area, with gold flash over 50µ nickel on entire contact **E:** 100µ to 200µ bright tin over 30µ nickel on entire contact **F:** Gold flash over nickel, 15µ gold on contact area **G:** Gold flash over nickel, 30µ gold on contact area

Fig. 1

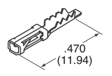

Fig. 2

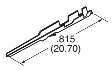

Fig. 3

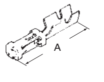

Fig.	Insulation Dia. - Max. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel 10,000	AMP Part No.
Crimp Snap-In (No-strip) Receptacles												
1	.055 (1.40)	BeCu	C	A25943-ND	6.45	43.39	102348-2	—	—	—	—	—
			E	A25944-ND	4.84	32.57	102348-3	A25944CT-ND	278.33	A25944TR-ND	150.30/M	87107-6
A25946-ND (90381-1) Crimp Hand Tool for Receptacles **$1636.50**												

Fig.	Dim. A	Wire Size (AWG)	Max. Ins. Dia. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	1,000	Digi-Key Part No.	Strip Tape & Reel 12,500	AMP Part No.
Crimp Snap-In Pins with Insulation Support																
2	—	22-26	.061 (1.55)	Ph Bz	C	A25948-ND	5.65	37.99	102107-2	A25948CT-ND	—	171.89	312.53	A25948TR-ND	168.77/M	102095-3
					D	A25950-ND	4.79	32.24	102107-1	A25950CT-ND	—	154.36	280.65	A25950TR-ND	151.56/M	102095-2
					E	A25952-ND	2.32	15.60	102107-3	—	—	—	—	—	—	—
					E	A33420-ND	2.19	14.76	5-102107-3	A33420CT-ND	—	70.88	128.88	A33420TR-ND	69.60/M	5-102095-4
Crimp Snap-In Receptacles with Insulation Support – Standard Pressure																
3	.445	27-32	.040 (1.02)	Cu-Sn-Ph Bz	A	A25953-ND	4.01	26.99	1-102316-4	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	A	A33421-ND	3.80	25.53	6-102316-4	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	B	A25955-ND	3.83	25.77	1-102316-3	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	B	A33422-ND	3.62	24.37	6-102316-3	A33422CT-ND	—	115.46	209.93	A33422TR-ND	113.36/M	5-102316-6
				BeCu	C	A25957-ND	5.79	38.93	102917-2	A25957CT-ND	—	183.30	333.28	A25957TR-ND	179.97/M	102917-1
				BeCu	D	—	—	—	—	A25958CT-ND	35.76	152.08	226.38	A25958TR-ND	156.73/M	102917-5
				Cu-Sn-Ph Bz	E	—	—	—	—	A25959CT-ND	24.61	104.66	155.79	A25959TR-ND	107.86/M	102316-5
	.445	22-26	.061 (1.55)	Cu-Sn-Ph Bz	A	A25966-ND	4.01	26.99	1-87756-8	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	A	A33423-ND	3.80	25.53	6-87756-8	—	—	—	—	—	—	—
				BeCu	A	A25973-ND	7.44	50.02	87667-1	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	B	A25968-ND	3.83	25.77	1-87756-6	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	B	A33424-ND	3.52	23.66	6-87756-6	—	—	—	—	—	—	—
				BeCu	C	A3001-ND	4.77	32.08	87667-2	—	—	—	—	—	—	—
				BeCu	D	A25972-ND	4.69	31.52	87667-5	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	E	A25970-ND	3.28	22.05	87756-7	—	—	—	—	—	—	—
				BeCu	E	A3000-ND	3.70	24.86	87667-3	A3000CT-ND	—	129.25	235.00	A3000TR-ND	126.90/M	87666-3
				Cu-Sn-Ph Bz	F	A25969-ND	3.81	25.61	87756-5	A25969CT-ND	—	120.09	218.35	A25969TR-ND	117.91/M	87756-4
				Cu-Sn-Ph Bz	G	—	—	—	—	A25967CT-ND	31.07	132.15	196.72	A25967TR-ND	136.19/M	87756-2
	.470	20-24	.069 (1.75)	Cu-Sn-Ph Bz	A	A25984-ND	4.01	26.99	1-87523-9	A25984CT-ND	—	171.27	311.40	A25984TR-ND	168.16/M	1-87523-8
				Cu-Sn-Ph Bz	A	A33425-ND	3.80	25.53	6-87523-9	A33425CT-ND	—	162.04	294.63	A33425TR-ND	159.10/M	6-87523-8
				Cu-Sn-Ph Bz	B	A25986-ND	3.83	25.77	1-87523-6	A25986CT-ND	—	169.19	307.63	A25986TR-ND	166.12/M	1-87523-5
				Cu-Sn-Ph Bz	B	A33426-ND	3.62	24.37	2-87523-4	A33426CT-ND	—	125.43	228.05	A33426TR-ND	123.15/M	2-87523-3
				BeCu	C	A25988-ND	7.29	49.01	86016-1	—	—	—	—	—	—	—
				BeCu	D	A25991-ND	5.22	35.12	86016-5	A25991CT-ND	—	191.76	348.65	A25991TR-ND	188.28/M	85969-6
				Cu-Sn-Ph Bz	D	—	—	—	—	A25996CT-ND	26.90	114.42	170.31	A25996TR-ND	117.91/M	87523-4
				Cu-Sn-Ph Bz	E	A25993-ND	2.22	14.96	87523-6	A25993CT-ND	—	98.59	179.25	A25993TR-ND	96.80/M	87523-5
				BeCu	E	A25995-ND	3.70	24.86	86016-3	A25995CT-ND	—	129.25	235.00	A25995TR-ND	126.90/M	85969-9
				BeCu	G	A25989-ND	4.77	32.08	86016-2	—	—	—	—	—	—	—
Crimp Snap-In Receptacles with Insulation Support – Intermediate Pressure																
3	.445	27-32	.040 (1.02)	Cu-Sn-Ph Bz	A	A25961-ND	4.01	26.99	102920-2	A25961CT-ND	—	232.49	422.70	A25961TR-ND	253.62/M	102920-1
				Cu-Sn-Ph Bz	A	A33427-ND	3.80	25.53	5-102920-2	—	—	—	—	—	—	—
				BeCu	C	A25963-ND	8.45	56.87	102918-2	A25963CT-ND	—	178.43	324.43	A25963TR-ND	175.19/M	102918-1
	.445	22-26	.061 (1.55)	Cu-Sn-Ph Bz	A	A25976-ND	4.01	26.99	103171-5	A25976CT-ND	—	126.35	229.73	A25976TR-ND	124.06/M	103171-4
				Cu-Sn-Ph Bz	A	A33428-ND	3.80	25.53	5-103171-5	A33428CT-ND	—	119.53	217.33	A33428TR-ND	117.36/M	5-103171-4
				Cu-Sn-Ph Bz	B	—	—	—	—	A25977CT-ND	27.34	116.29	173.10	A25977TR-ND	119.84/M	103171-1
				Cu-Sn-Ph Bz	B	—	—	—	—	A33429CT-ND	—	110.00	163.74	A33429TR-ND	113.36/M	5-103171-1
				BeCu	C	A25979-ND	5.79	38.95	102548-6	A25979CT-ND	—	183.30	333.28	A25979TR-ND	179.97/M	102548-5
				BeCu	D	A25981-ND	4.69	31.52	102548-3	A25981CT-ND	—	191.76	348.65	A25981TR-ND	188.28/M	102548-1
	.470	20-24	.069 (1.75)	Cu-Sn-Ph Bz	A	A25998-ND	4.01	26.99	2-87195-1	A25998CT-ND	—	171.31	311.48	A25998TR-ND	168.20/M	2-87195-0
				Cu-Sn-Ph Bz	A	—	—	—	—	A33430CT-ND	—	162.04	294.63	A33430TR-ND	159.10/M	2-87195-3
				Cu-Sn-Ph Bz	B	A28315-ND	3.83	25.77	1-87195-8	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	B	A33431-ND	3.68	24.79	2-87195-5	A33431CT-ND	—	115.46	209.93	A33431TR-ND	113.36/M	2-87195-4
				BeCu	C	A28319-ND	7.34	49.40	87046-2	A28319CT-ND	—	232.39	422.53	A28319TR-ND	228.17/M	86492-4
				BeCu	D	A28317-ND	5.30	35.67	87046-1	A28317CT-ND	—	191.76	348.65	A28317TR-ND	188.28/M	86492-2
				BeCu	E	A3005-ND	4.42	29.71	87046-4	A3005CT-ND	—	153.09	278.35	A3005TR-ND	150.31/M	86492-9
				BeCu	G	A3006-ND	5.89	39.62	87046-3	—	—	—	—	—	—	—
Crimp Snap-In Receptacles with Insulation Support – High Pressure																
3	.445	27-32	.040 (1.02)	Ph Bz	C	A25965-ND	6.44	43.30	103455-2	A25965CT-ND	—	174.03	316.43	A25965TR-ND	170.87/M	103455-1
	.445	22-26	.061 (1.55)	Ph Bz	C	A3004-ND	3.47	28.84	102128-1	—	—	—	—	—	—	—
					E	A3003-ND	2.90	19.48	102128-2	A3003CT-ND	—	74.33	135.15	A3003TR-ND	72.99/M	87809-2
	.470	20-24	.069 (1.75)	Ph Bz	C	A3008-ND	3.58	29.72	1-87309-4	—	—	—	—	—	—	—
					E	A3007-ND	2.90	19.48	1-87309-3	—	—	—	—	—	—	—

A99114-ND (91541-1)	Crimp Tool MT Connectors 27-32AWG	**$551.57**	
A9840-ND (91516-1)	Crimp Tool MT Connectors 20-24AWG	**$491.31**	
A9903-ND (91517-1)	Crimp Tool MT Connectors 22-26AWG	**$551.57**	
A3077-ND (86286-1)	Keying Plug for Standard or Intermediate Contacts	**$2.05/10**	

AMPMODU Locking Clip Contacts and Housings

FEATURES: • Mates with .025” (.64mm) square posts
- Modular design permits end-to-end stacking
- Housing made of 94V-0 rated glass-filled polyester
- Stamped: cavity ID, Amp part number and date code stamped on housing where size permits. Unstamped: no marking on housing

PERFORMANCE CHARACTERISTICS:
- Contact Current Rating: 3 Amp.
- Termination Resistance: 12mΩ maximum (gold plated contacts) or 16mΩ maximum (tin plated contacts)

MATERIAL: Glass-filled polyester, 94V-0

Fig. 1

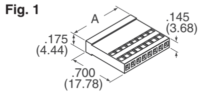

Fig. 2

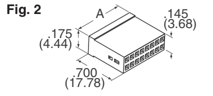

Fig.	No. of Pos.	Dimension A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Single Row (order contacts separately) — RoHS Compliant							
1	1	.108 (2.74)	Unstamped	A26920-ND	.71	.65	87175-2
	2	.216 (5.49)	Unstamped	A26921-ND	1.02	.93	87175-6
	3	.316 (8.03)	Unstamped	A26922-ND	1.22	1.11	87175-8
	4	.416 (10.57)	Unstamped	A26923-ND	1.37	1.25	1-87175-0
	5	.516 (13.11)	Unstamped	A26924-ND	1.41	1.28	1-87175-2
	6	.616 (15.65)	Unstamped	A26925-ND	1.50	1.36	1-87175-4
	6	.616 (15.65)	Stamped	A26926-ND	2.74	2.49	1-87175-3
	7	.716 (18.19)	Unstamped	A26927-ND	1.53	1.39	1-87175-6
	7	.716 (18.19)	Stamped	A26928-ND	2.80	2.54	1-87175-5
	8	.816 (20.73)	Unstamped	A26929-ND	1.82	1.66	1-87175-8
	8	.816 (20.73)	Stamped	A26930-ND	2.86	2.60	1-87175-7
	9	.916 (23.27)	Unstamped	A26931-ND	1.87	1.69	2-87175-0
	9	.916 (23.27)	Stamped	A26932-ND	2.92	2.65	1-87175-9
	10	1.016 (25.81)	Unstamped	A26933-ND	1.64	1.49	2-87175-2
	10	1.016 (25.81)	Stamped	A26934-ND	2.98	2.70	2-87175-1
	11	1.116 (28.35)	Unstamped	A26935-ND	2.47	2.25	2-87175-4
1	11	1.116 (28.35)	Stamped	A26936-ND	3.37	3.05	2-87175-3
	12	1.216 (30.89)	Unstamped	A26937-ND	2.04	1.85	2-87175-6
	12	1.216 (30.89)	Stamped	A26938-ND	3.19	2.90	2-87175-5
	13	1.316 (33.43)	Unstamped	A26939-ND	2.14	1.94	2-87175-8
	14	1.416 (35.97)	Unstamped	A26940-ND	2.22	2.01	3-87175-0
	15	1.516 (38.51)	Unstamped	A26941-ND	1.96	1.78	87175-4
	15	1.516 (38.51)	Stamped	A26942-ND	4.22	3.83	87175-3
Double Row (order contacts separately) — RoHS Compliant							
2	2	.116 (2.95)	Unstamped	A26943-ND	1.19	1.08	87176-2
	4	.216 (5.49)	Unstamped	A26944-ND	1.53	1.39	87133-1
	6	.316 (8.03)	Unstamped	A26945-ND	1.45	1.32	87133-7
	6	.316 (8.03)	Stamped	A26946-ND	2.74	2.49	87133-8
	10	.516 (13.11)	Unstamped	A26947-ND	1.64	1.49	87133-2
	10	.516 (13.11)	Stamped	A26948-ND	2.98	2.70	87133-5
	12	.616 (15.65)	Unstamped	A26949-ND	2.77	2.52	1-87133-1
	20	1.016 (25.81)	Unstamped	A26950-ND	2.35	2.13	87133-3

Locking Clip Contacts

MATERIAL: Stainless steel spring

Contact Plating: A: 30µ gold on contact area, with gold flash over 50µ nickel on the entire contact **B:** 100µ - 200µ bright tin over 50µ nickel on entire contact **C:** 100µ - 200µ bright tin-lead over 50µ nickel on entire contact

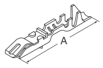

Wire Size (AWG)	Dim. A Inch (mm)	Insulation Diameter Range Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	10	25	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Strip T & R Pricing 7,000	AMP Part No.
28-30	.550 (13.97)	.029-.039 (.74-.99)	A	A26951-ND◆	.59	—	13.37	37.88	87191-1	A26951CT-ND◆	45.32	207.71	A26951TR-ND◆	226.59/M	87190-1
			C	A26952-ND	.47	—	10.73	30.40	87191-2	—	—	—	—	—	—
			B	A34241-ND◆	.44	—	10.05	28.48	5-87191-2	A34241CT-ND◆	41.11	188.43	A34241TR-ND◆	205.56/M	5-87190-2
22-26	.584 (14.83)	.038-.062 (.97-1.57)	A	A26954-ND◆	—	6.51	—	43.77	87165-1	A26954CT-ND◆	40.74	186.73	A26954TR-ND◆	203.70/M	87124-1
			C	A26956-ND	—	4.92	—	33.08	87165-2	A26956CT-ND	30.53	139.92	A26956TR-ND	152.64/M	87124-2
			B	A34242-ND◆	—	4.61	—	30.99	5-87165-2	A34242CT-ND◆	27.77	127.27	A34242TR-ND◆	138.84/M	5-87124-2
20	.584 (14.83)	.038-.062 (.97-1.57)	A	—	—	—	—	—	—	A26957CT-ND◆	46.47	197.67	A26957TR-ND◆	226.34/M	867052-2
			C	—	—	—	—	—	—	A26958CT-ND	34.88	148.37	A26958TR-ND	169.89/M	867052-1
			C	—	—	—	—	—	—	A36217CT-ND◆	32.68	138.98	A36217TR-ND◆	159.14/M	5-867052-1

A26960-ND◆	Keying Plug for .025” (.64mm) sq. post contacts	**$.19/1, $4.31/25**
A26961-ND	Extraction Tool	**$22.34**
A30043-ND	Crimp Tool for 22-26 AWG contacts	**$551.57**

◆ ***RoHS Compliant***

AMPMODU Short Point Wire-Applied Connectors and Contacts

Fig. 1

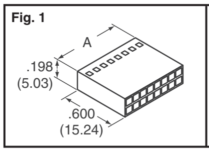

Fig. 2

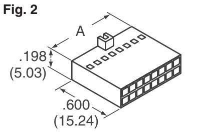

FEATURES:
- Short point of contact mates with .169” ~ .259” (4.29mm ~ 6.58mm)
- Double row housings are end-to-end and side-to-side stackable
- Terminates 20-32 AWG discrete wire • Mates with .025” (.64mm) square posts • Dual cantilever contact beams for reliable matings

PERFORMANCE CHARACTERISTICS:
- Contact Current Rating: 3 Amp.
- Termination Resistance: 12mΩ maximum

MATERIAL:
- Black thermoplastic, flame retardant, 94V-0

Fig.	No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Double Row, Non-Polarized — RoHS Compliant (order contacts separately)						
1	4	.198 (5.03)	A25914-ND	.88	.80	104482-1
	6	.298 (7.57)	A25915-ND	.89	.81	104482-2
	8	.398 (10.11)	A25916-ND	.90	.82	104482-3
	10	.498 (12.65)	A25917-ND	.91	.83	104482-4
	12	.598 (15.19)	A25918-ND	.91	.83	104482-5
	14	.698 (17.73)	A25919-ND	.91	.83	104482-6
	16	.798 (20.27)	A25920-ND	.92	.84	104482-7
	18	.898 (22.81)	A25921-ND	.94	.85	104482-8
	20	.998 (25.35)	A25922-ND	.95	.87	104482-9
	22	1.098 (27.89)	A25923-ND	.97	.88	1-104482-0
	26	1.298 (32.97)	A25924-ND	.99	.90	1-104482-1
	28	1.398 (35.51)	A25925-ND	1.00	.91	1-104482-2
	30	1.498 (38.05)	A25926-ND	1.05	.96	1-104482-3
	32	1.598 (40.59)	A25927-ND	1.06	.97	1-104482-4
	34	1.698 (43.13)	A25928-ND	1.11	1.01	1-104482-5
1	36	1.798 (45.67)	A25929-ND	1.12	1.02	1-104482-6
	38	1.898 (48.21)	A25930-ND	1.14	1.03	1-104482-7
	40	1.998 (50.75)	A25931-ND	1.15	1.05	1-104482-8
	44	2.198 (55.83)	A25932-ND	1.97	1.79	1-104482-9
	52	2.598 (65.99)	A25933-ND	2.12	1.92	2-104482-0
Double Row, Polarized — RoHS Compliant (order contacts separately)						
2	8	.398 (10.11)	A25934-ND	.90	.82	104483-1
	14	.698 (17.73)	A25935-ND	.89	.81	104483-9
	18	.898 (22.81)	A25936-ND	.91	.83	104483-2
	20	.998 (25.35)	A25937-ND	.92	.84	104483-3
	26	1.298 (32.97)	A25938-ND	.99	.90	104483-4
	30	1.498 (38.05)	A25939-ND	1.05	.96	104483-5
	38	1.898 (48.21)	A25940-ND	1.11	1.01	104483-6
	54	2.698 (68.53)	A25941-ND	2.00	1.82	104483-7
	64	3.198 (81.23)	A25942-ND	2.07	1.88	104483-8

Short Point Crimp Snap-In Receptacle Contacts

MATERIAL: Copper alloy C7025 **Contact Plating: A:** 30µ gold on contact area, with tin-lead over 50µ nickel on the crimp area **B:** 15µ gold on contact area, 50µ minimum tin-lead in crimp area, with entire post underplated 50µ nickel **C:** 100µ - 200µ bright tin-lead over 50µ nickel on entire contact

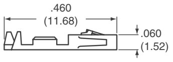

Wire Size (AWG)	Insulation Diameter Range Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel Pricing 15,000	AMP Part No.
28-32	.025-.060 (.64-1.52)	A	A28323-ND	1.58	10.66	104481-8	—	—	—	—	—
		A	A34336-ND◆	1.50	10.08	1-104481-3	A34336CT-ND◆	98.65	A34336TR-ND◆	53.28/M	1-104481-1
		B	A28325-ND	1.40	9.40	104481-7	—	—	—	—	—
		B	A34337-ND◆	1.40	9.40	1-104481-2	—	—	—	—	—
		C	A28326-ND	1.10	7.43	104481-6	—	—	—	—	—
		C	A34246-ND◆	1.04	7.03	5-104481-6	—	—	—	—	—
22-26	.025-.060 (.64-1.52)	A	A28327-ND	1.58	10.66	104480-9	—	—	—	—	—
		A	A32513-ND◆	1.46	9.79	1-104480-6	—	—	—	—	—
		B	A28328-ND	1.40	9.40	104480-8	—	—	—	—	—
		B	A32512-ND◆	1.28	8.63	1-104480-5	—	—	—	—	—
		C	A28329-ND	1.10	7.43	104480-7	—	—	—	—	—
		C	A32511-ND◆	1.01	6.82	1-104480-4	—	—	—	—	—
20-24	.025-.060 (.64-1.52)	A	A28331-ND	1.58	10.66	104479-7	—	—	—	—	—
		A	A34249-ND◆	1.50	10.08	1-104479-3	A34249CT-ND◆	92.98	A34249TR-ND◆	50.21/M	1-104479-0
		B	A28333-ND	1.40	9.40	104479-6	A28333CT-ND	92.00	A28333TR-ND	46.00/M	104479-3
		B	A34250-ND◆	1.32	8.89	1-104479-2	A34250CT-ND◆	87.03	A34250TR-ND◆	47.00/M	104479-9
		C	A28335-ND	1.75	11.79	104479-5	—	—	—	—	—
		C	A34251-ND◆	1.66	11.15	1-104479-1	A34251CT-ND◆	68.78	A34251TR-ND◆	37.14/M	104479-8

A29087-ND	Crimp Hand Tool for 28-32 AWG and 22-26 AWG	**$468.14**
A99101-ND	Crimp Hand Tool for 20-24 AWG	**$551.57**
A29088-ND	Extraction Tool	**$15.75**

◆ ***RoHS Compliant***

AMPMODU MTE Interconnection System

The AMPMODU® MTE Interconnection System offers both wire-to-board and wire-to-wire connectors using .025" (0.64mm) square post technology. **FEATURES:** • Insulation displacement technology • Plain housings are end-to-end and/or back-to-back stackable for open pin field applications **ELECTRICAL CHARACTERISTICS:** • Contact Current Rating: 3amp • Contact Termination Resistance: 15mΩ (maximum) • Dielectric Withstanding Voltage: 600VAC, rms at sea level • Operating Temperature: -65°C ~ 105°C **MATERIAL:** • Housing: Black thermoplastic, 94V-0 rated • Contacts: Phosphor bronze

Contact Plating:

A: 30μ gold on contact area, 50μ minimum tin-lead in crimp area, with entire contact underplated 50μ nickel
B: 15μ gold on contact area, 50μ minimum tin-lead in crimp area, with entire contact underplated 50μ nickel
C: .100μ bright tin-lead over 50μ nickel on entire contact
Unloaded: No contacts in housing

Fig. 1 - Receptacle

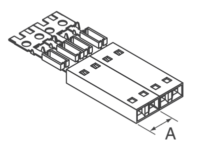

Fig. 2 - Receptacle

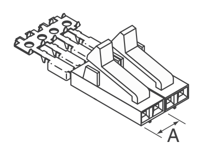

Fig. 3 - Pin

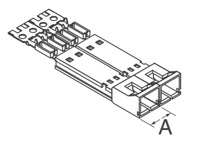

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Housing Quantity per Strip	Pricing		AMP Part No.
RECEPTACLE ASSEMBLIES Single Row .100" (2.54mm), 26-22 AWG							
Strip Form Plain — Fig. 1							
2	A	.198 (5.03)	A28349-ND	10	7.10/10	70.74/110	103976-1
	B		A28350-ND		10.56/10	105.20/110	103975-1
	C		A28351-ND		7.26/10	72.30/110	103974-1
3	A	.298 (7.57)	A28353-ND	8	6.24/8	50.82/72	103976-2
	B		A28354-ND		9.87/8	80.44/72	103975-2
4	A	.398 (10.11)	A28357-ND	5	4.73/5	47.10/55	103976-3
	B		A28358-ND		6.80/5	67.73/55	103975-3
	C		A28359-ND		4.71/5	46.93/55	103974-3
5	A	.498 (12.65)	A28361-ND	4	3.99/4	39.76/44	103976-4
	B		A28362-ND		3.91/4	38.99/44	103975-4
	C		A28363-ND		3.94/4	39.26/44	103974-4
6	B	.598 (15.19)	A28365-ND	4	4.65/4	37.92/36	103975-5
	C		A28366-ND		4.18/4	34.05/36	103974-5
7	A	.698 (17.73)	A28368-ND	2	3.57/2	48.53/30	103976-6
	B		A28369-ND		3.76/2	51.09/30	103975-6
	C		A28370-ND		3.37/2	45.82/30	103974-6
8	C	.798 (20.27)	A28374-ND	2	3.72/2	43.82/26	103974-7
9	A	.898 (22.81)	A28376-ND	2	3.85/2	41.79/24	103976-8
10	A	.998 (23.35)	A28379-ND	2	4.19/2	41.78/22	103976-9
	B		A28380-ND		3.91/2	38.91/22	103975-9
	C		A28381-ND		7.60/2	75.69/22	103974-9
11	B	1.098 (27.89)	A28383-ND	2	4.25/2	38.46/20	1-103975-0
12	A	1.198 (30.43)	A28386-ND	2	4.94/2	40.24/18	1-103976-1
	C		A28388-ND		7.93/2	64.64/18	1-103974-1
2	Unloaded	.195 (5.03)	A28352-ND◆†	1	.29/1	6.56/25	103688-1
3	Unloaded	.298 (7.57)	A28356-ND◆†		.42/1	9.54/25	103688-2
4	Unloaded	.398 (10.11)	A28360-ND◆†		.49/1	11.06/25	103688-3
6	Unloaded	.598 (15.19)	A28367-ND◆†		.66/1	14.96/25	103688-5
7	Unloaded	.698 (17.73)	A28371-ND◆†		.61/1	13.84/25	103688-6
8	Unloaded	.798 (20.27)	A28375-ND◆†	1	.65/1	14.68/25	103688-7
9	Unloaded	.898 (22.81)	A28378-ND◆†		.60/1	13.63/25	103688-8
10	Unloaded	.998 (23.35)	A28382-ND◆†		.63/1	14.30/25	103688-9
11	Unloaded	1.098 (27.89)	A28385-ND◆†		.83/1	18.89/25	1-103688-0
12	Unloaded	1.198 (30.43)	A28389-ND◆†		.76/1	17.14/25	1-103688-1
Strip Form Plain — Fig. 1 RoHS Compliant							
2	A	.198 (5.03)	A34956-ND	10	6.65/10	66.24/110	5-103976-1
	B		A34176-ND		9.89/10	98.50/110	5-103975-1
	C		A34177-ND		6.80/10	67.70/110	5-103974-1
3	A	.298 (7.57)	A34957-ND	8	5.84/8	47.59/72	5-103976-2
	B		A34950-ND		9.24/8	75.32/72	5-103975-2
	C		A34178-ND		6.43/8	52.42/72	5-103974-2
4	A	.398 (10.11)	A34179-ND	5	4.43/5	44.10/55	5-103976-3
	B		A34951-ND		6.37/5	63.42/55	5-103975-3
	C		A34180-ND		4.41/5	43.95/55	5-103974-3
5	A	.498 (12.65)	A34181-ND	4	3.74/4	37.23/44	5-103976-4
	B		A34952-ND		3.66/4	36.51/44	5-103975-4
	C		A34182-ND		3.69/4	36.76/44	5-103974-4
6	A	.598 (15.19)	A34183-ND	4	4.48/4	36.55/36	5-103976-5
	B		A34953-ND		4.36/4	35.51/36	5-103975-5
	C		A34946-ND		3.91/4	31.89/36	5-103974-5
7	A	.698 (17.73)	A34958-ND	2	3.35/2	45.44/30	5-103976-6
	B		A34184-ND		3.52/2	47.84/30	5-103975-6
	C		A34947-ND		3.16/2	42.91/30	5-103974-6
8	A	.798 (20.27)	A34959-ND	2	3.32/2	39.08/26	5-103976-7
	C		A34948-ND		3.49/2	41.03/26	5-103974-7
9	A	.898 (22.81)	A34960-ND	2	3.60/2	39.13/24	5-103976-8
10	A	.998 (23.35)	A34961-ND	2	3.93/2	39.12/22	5-103976-9
	B		A34955-ND		3.66/2	36.43/22	5-103975-9
11	B	1.098 (27.89)	A35067-ND	2	3.98/2	36.02/20	6-103975-0
12	A	1.198 (30.43)	A34966-ND	2	4.62/2	37.68/18	6-103976-1
	B		A34965-ND		4.29/2	34.95/18	6-103975-1
Strip Form Polarized/Latching — Fig. 2							
2	A	.198 (5.03)	A28390-ND	10	6.73/10	67.01/110	103958-1
	B		A28391-ND		5.58/10	55.59/110	103957-1
	C		A28392-ND		5.24/10	52.16/110	103956-1
3	A	.298 (7.57)	A28394-ND	8	6.12/8	49.92/72	103958-2
	B		A28395-ND		5.38/8	43.86/72	103957-2
	C		A28396-ND		4.97/8	40.49/72	103956-2
4	A	.398 (10.11)	A28398-ND	5	4.63/5	46.17/55	103958-3
	B		A28399-ND		3.71/5	37.01/55	103957-3
	C		A28400-ND		3.67/5	36.58/55	103956-3
5	A	.498 (12.65)	A28402-ND	4	4.53/4	45.16/44	103958-4
	B		A28403-ND		3.91/4	38.99/44	103957-4
	C		A28404-ND		3.57/4	35.56/44	103956-4
6	A	.598 (15.19)	A28406-ND	4	5.40/4	43.98/36	103958-5
	B		A28407-ND		4.65/4	37.92/36	103957-5
	C		A28408-ND		7.09/4	57.83/36	103956-5
7	A	.698 (17.73)	A28410-ND	2	3.12/2	42.38/30	103958-6
	B		A28411-ND		2.69/2	36.49/30	103957-6
8	A	.798 (20.27)	A28414-ND	2	3.47/2	40.86/26	103958-7
	B		A28415-ND		2.98/2	35.03/26	103957-7
	C		A28416-ND		2.70/2	31.79/26	103956-7
9	A	.898 (22.81)	A28418-ND	2	3.76/2	40.88/24	103958-8
	B		A28419-ND		4.69/2	50.92/24	103957-8
	C		A28420-ND		2.90/2	31.46/24	103956-8
10	A	.998 (23.35)	A28422-ND	2	4.10/2	40.85/22	103958-9
	B		A28423-ND		3.48/2	34.68/22	103957-9
	C		A28424-ND		3.14/2	31.26/22	103956-9
11	A	1.098 (27.89)	A28426-ND	2	4.14/2	37.45/20	1-103958-0
	C		A28428-ND		3.41/2	30.86/20	1-103956-0
12	A	1.198 (30.43)	A28430-ND	2	4.83/2	39.34/18	1-103958-1
	B		A28431-ND		4.08/2	33.28/18	1-103957-1
	C		A28432-ND		3.67/2	29.91/18	1-103956-1
2	Unloaded	.198 (5.03)	A28393-ND◆†	1	.22/1	5.07/25	104257-1
3	Unloaded	.298 (7.57)	A28397-ND◆†		.33/1	7.38/25	104257-2
4	Unloaded	.398 (10.11)	A28401-ND◆†		.38/1	8.50/25	104257-3
5	Unloaded	.498 (12.65)	A28405-ND◆†		.40/1	9.16/25	104257-4
6	Unloaded	.598 (15.19)	A28409-ND◆†		.43/1	9.78/25	104257-5
7	Unloaded	.698 (17.73)	A28413-ND◆†	1	.49/1	11.15/25	104257-6
8	Unloaded	.798 (20.27)	A28417-ND◆†		.51/1	11.49/25	104257-7
9	Unloaded	.898 (22.81)	A28421-ND◆†		.59/1	13.26/25	104257-8
10	Unloaded	.998 (23.35)	A28425-ND◆†		.61/1	13.92/25	104257-9
11	Unloaded	1.098 (27.89)	A28429-ND◆†		.71/1	15.96/25	1-104257-0
12	Unloaded	1.198 (30.43)	A28433-ND◆†	1	.74/1	16.67/25	1-104257-1
14	Unloaded	1.398 (35.51)	A26854-ND◆†		.93/1	21.01/25	1-104257-3
15	Unloaded	1.498 (38.05)	A26855-ND◆†		1.15/1	26.03/25	1-104257-4
16	Unloaded	1.598 (40.59)	A26856-ND◆†		1.22/1	27.61/25	1-104257-5
17	Unloaded	1.698 (43.13)	A26857-ND◆†		1.26/1	28.52/25	1-104257-6
20	Unloaded	1.998 (50.75)	A26858-ND◆†		1.28/1	28.88/25	1-104257-9

◆ ***RoHS Compliant*** † For Female contacts see "Short Point Contacts"

(Continued)

Strip Form Polarized/Latching — Fig. 2
RoHS Compliant

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Housing Quantity per Strip	Pricing		AMP Part No.
2	A	.198 (5.03)	A34185-ND	10	5.44/10	54.16/110	5-103958-1
	B		A34186-ND		5.22/10	52.05/110	5-103957-1
	C		A34187-ND		4.90/10	48.84/110	5-103956-1
3	A	.298 (7.57)	A34188-ND	8	5.73/8	46.74/72	5-103958-2
	B		A34189-ND		5.04/8	41.07/72	5-103957-2
	C		A34190-ND		4.65/8	37.92/72	5-103956-2
4	A	.398 (10.11)	A34191-ND	5	4.01/5	39.99/55	5-103958-3
	B		A34192-ND		3.48/5	34.65/55	5-103957-3
	C		A34193-ND		3.44/5	34.25/55	5-103956-3
5	A	.498 (12.65)	A34194-ND	4	4.24/4	42.28/44	5-103958-4
	B		A34195-ND		3.66/4	36.51/44	5-103957-4
	C		A34196-ND		3.34/4	33.30/44	5-103956-4
6	A	.598 (15.19)	A34197-ND	4	5.05/4	41.18/36	5-103958-5
	B		A34198-ND		4.36/4	35.51/36	5-103957-5
	C		A34199-ND		6.64/4	54.15/36	5-103956-5
7	A	.698 (17.73)	A34200-ND	2	2.92/2	39.68/30	5-103958-6
	B		A34201-ND		2.52/2	34.17/30	5-103957-6
	C		A34944-ND		2.29/2	31.11/30	5-103956-6
8	A	.798 (20.27)	A34202-ND	2	3.25/2	38.26/26	5-103958-7
	B		A34203-ND		2.79/2	32.80/26	5-103957-7
	C		A34945-ND		2.53/2	29.76/26	5-103956-7
9	A	.898 (22.81)	A34204-ND	2	3.52/2	38.28/24	5-103958-8
	B		A34205-ND		4.26/2	46.29/24	5-103957-8
	C		A34206-ND		2.71/2	29.46/24	5-103956-8
10	A	.998 (23.35)	A34207-ND	2	3.84/2	38.25/22	5-103958-9
	B		A34208-ND		3.26/2	32.48/22	5- 103957-9
	C		A34209-ND		2.94/2	29.27/22	5-103956-9
11	A	1.098 (27.89)	A34210-ND	2	3.87/2	35.07/20	6-103958-0
	C		A34963-ND		2.95/2	26.73/20	6-103956-0
12	A	1.198 (30.43)	A34211-ND	2	4.52/2	36.8318	6-103958-1
	B		A34212-ND		3.82/2	31.16/18	6-103957-1
	C		A34213-ND		3.44/2	28.01/18	6-103956-1

PIN ASSEMBLIES (contacts sold below for unloaded pin housing)
Single Row .100" (2.54mm), 26-22 AWG

Strip Form Polarized/Latching — Fig. 3

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Housing Quantity per Strip	Pricing		AMP Part No.
2	A	.295 (7.49)	A28434-ND	8	9.04/8	73.72/72	103946-1
	B		A28435-ND		8.01/8	65.26/72	103945-1
	C		A28436-ND		7.73/8	63.02/72	103944-1
3	A	.395 (10.03)	A28438-ND	5	6.90/5	68.78/55	103946-2
	B		A28439-ND		5.29/5	52.69/55	103945-2
	C		A28440-ND		5.03/5	50.13/55	103944-2
4	A	.495 (12.57)	A28442-ND	4	8.70/4	86.68/44	103946-3
	B		A28443-ND		4.82/4	47.98/44	103945-3
	C		A28444-ND		4.54/4	45.24/44	103944-3
5	A	.595 (15.11)	A28446-ND	4	5.33/4	43.46/36	103946-4
	B		A28447-ND		4.99/4	40.66/36	103945-4
	C		A28448-ND		7.36/4	60.01/36	103944-4
6	A	.695 (17.05)	A28450-ND	2	3.18/2	43.25/30	103946-5
	B		A28451-ND		2.72/2	37.01/30	103945-5
	C		A28452-ND		2.52/2	34.21/30	103944-5
7	A	.795 (20.19)	A28454-ND	3	5.40/3	44.02/27	103946-6
	B		A28455-ND		6.50/3	52.96/27	103945-6
	C		A28456-ND		7.17/3	58.43/27	103944-6
8	A	.895 (22.73)	A28458-ND	2	5.54/2	60.19/24	103946-7
	B		A28459-ND		5.10/2	55.38/24	103945-7
	C		A28460-ND		4.65/2	50.56/24	103944-7
9	A	.995 (25.27)	A28462-ND	2	3.56/2	35.45/22	103946-8
	B		A28463-ND		3.74/2	37.23/22	103945-8
	C		A28464-ND		3.38/2	33.68/22	103944-8
10	A	1.095 (27.81)	A28466-ND	2	4.43/2	40.13/20	103946-9
	B		A28467-ND		5.33/2	48.27/20	103945-9
	C		A28468-ND		4.08/2	36.98/20	103944-9
2	Unloaded	.295 (7.49)	A28437-ND◆	1	.52/1	11.82/25	103653-1
3	Unloaded	.395 (10.03)	A28441-ND◆		.55/1	12.37/25	103653-2
4	Unloaded	.495 (12.57)	A28445-ND◆		.64/1	14.56/25	103653-3
5	Unloaded	.595 (15.11)	A28449-ND◆		.55/1	12.53/25	103653-4
6	Unloaded	.695 (17.05)	A28453-ND◆		.56/1	12.61/25	103653-5
7	Unloaded	.795 (20.19)	A28457-ND◆	1	1.32/1	29.90/25	103653-6
8	Unloaded	.895 (22.73)	A28461-ND◆		1.35/1	30.63/25	103653-7
9	Unloaded	.995 (25.27)	A28465-ND◆		1.41/1	31.95/25	103653-8
10	Unloaded	1.095 (27.81)	A28469-ND◆		1.49/1	33.70/25	103653-9
11	Unloaded	1.195 (30.35)	A28472-ND◆		1.09/1	24.72/25	1-103653-0
12	Unloaded	1.295 (32.89)	A28754-ND◆	1	1.72/1	39.02/25	1-103653-1
14	Unloaded	1.495 (37.97)	A28755-ND◆		1.85/1	41.87/25	1-103653-3
15	Unloaded	1.595 (40.51)	A28756-ND◆		1.31/1	29.68/25	1-103653-4
16	Unloaded	1.695 (43.05)	A28757-ND◆		1.85/1	41.86/25	1-103653-5
17	Unloaded	1.795 (45.59)	A26852-ND◆		1.10/1	24.88/25	1-103653-6
20	Unloaded	2.095 (53.21)	A28792-ND◆		1.31/1	29.69/25	1-103653-9

Strip Form Polarized/Latching — Fig. 3
RoHS Compliant

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Housing Quantity per Strip	Pricing		AMP Part No.
2	A	.295 (7.49)	A34214-ND	8	8.47/8	69.03/72	5-103946-1
	B		A34215-ND		7.50/8	61.11/72	5-103945-1
	C		A34216-ND		7.24/8	59.01/72	5-103944-1
3	A	.395 (10.03)	A34217-ND	5	6.46/5	64.40/55	5-103946-2
	B		A34218-ND		4.95/5	49.34/55	5-103945-2
	C		A34219-ND		4.71/5	46.94/55	5-103944-2
4	A	.495 (12.57)	A34220-ND	4	7.91/4	78.80/44	5-103946-3
	B		A34221-ND		4.51/4	44.93/44	5-103945-3
	C		A34222-ND		4.25/4	42.36/44	5-103944-3
5	A	.595 (15.11)	A34223-ND	4	4.99/4	40.70/36	5-103946-4
	B		A34224-ND		4.67/4	38.07/36	5-103945-4
	C		A34225-ND		6.69/4	54.55/36	5-103944-4
6	A	.695 (17.05)	A34226-ND	2	2.98/2	40.50/30	5-103946-5
	B		A34227-ND		2.55/2	34.66/30	5-103945-5
	C		A34228-ND		2.36/2	32.03/30	5-103944-5
7	A	.795 (20.19)	A34229-ND	3	5.06/3	41.22/27	5-103946-6
	C		A34940-ND		6.71/3	54.71/27	5-103944-6
8	A	.895 (22.73)	A34230-ND	2	5.19/2	56.36/24	5-103946-7
	B		A34231-ND		4.77/2	51.86/24	5-103945-7
	C		A34232-ND		4.36/2	47.35/24	5-103944-7
9	A	.995 (25.27)	A34943-ND	2	3.83/2	38.18/22	5-103946-8
	B		A34942-ND		3.50/2	34.86/22	5-103945-8
	C		A34941-ND		3.17/2	31.54/22	5-103944-8
10	A	1.095 (27.81)	A34233-ND	2	4.15/2	37.58/20	5-103946-9
	B		A34234-ND		4.99/2	45.20/20	5-103945-9

◆ ***RoHS Compliant*** † For Female contacts see "Short Point Contacts"

Interchangeable Contacts Wire Crimp (Snap-In) Pins

Material: Phosphor bronze **Specification:** Contact: standard pressure
Contact Plating: A: 30µ gold on contact area, 30µ minimum tin-lead in crimp area, with entire contact underplated 50µ nickel **B:** 15µ gold on contact area, 30µ minimum tin-lead in crimp area, with entire post underplated 50µ nickel **C:** 100µ minimum bright tin-lead over 50µ nickel on entire contact

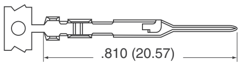

Wire Size (AWG)	Insulation Diameter Range Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape and Reel Pricing 12,500	AMP Part No.
28 ~ 32	.025 ~ .054 (.64 ~ 1.37)	A	A28336-ND	4.93	33.17	104506-7	—	—	—	—	—	—
		A	A34236-ND◆	4.62	31.07	5-104506-7	—	—	—	—	—	—
		B	A28337-ND	4.62	31.07	104506-5	—	—	—	—	—	—
		B	A34237-ND◆	4.72	31.78	5-104506-5	—	—	—	—	—	—
22 ~ 26	.036 ~ .054 (.91 ~ 1.37)	A	A28339-ND	5.42	36.49	104505-7	A28339CT-ND	197.85	359.73	A28339TR-ND	194.26/M	104505-6
		A	A34238-ND◆	5.08	34.17	5-104505-7	A34238CT-ND◆	185.27	336.85	A34238TR-ND◆	181.90/M	5-104505-6
		B	A28341-ND	5.05	33.94	104505-5	A28341CT-ND	153.68	279.43	A28341TR-ND	150.89/M	104505-4
		B	A34239-ND◆	4.72	31.78	5-104505-5	A34239CT-ND◆	143.89	261.63	A34239TR-ND◆	141.28/M	5-104505-4
		C	A28343-ND	2.56	17.24	104505-3	—	—	—	—	—	—
		C	A34240-ND◆	2.28	15.36	5-104505-3	—	—	—	—	—	—

◆ ***RoHS Compliant***

ASKP02-ND	Keying Plug - 10 Comb	**$1.22**
A28345-ND	Crimp Hand Tool for 28 ~ 32AWG (loose piece product)	**$2116.80**
A2031-ND	Manual Pistol Grip Tool (loaded housing product)	**$58.28**
A28718-ND	Head Assembly Tool use with A2031-ND	**$1066.50**
A30575-ND	Certi-Crimp Hand Tool Assembly for 22 ~ 26AWG (loose piece product)	**$519.12**

Tyco Electronics AMP
Authorized Distributor

AMPMODU Unshrouded Profile Headers - .100” (2.54mm) Centers

PERFORMANCE CHARACTERISTICS: • Insulation Resistance: 5,000MΩ minimum initial • Withstanding Voltage: 750V rms at sea level • Operating Temperature: -65°C ~ 105°C • Current: 3 amp maximum per contact

MATERIAL: Black thermoplastic, 94V-0 rated • Posts: Copper alloy

Contact Plating:

A: Selectively plated 30µ gold on contact area, with gold flash over 50µ nickel

B: Selectively plated 15µ gold on contact area, with gold flash over 50µ nickel

Fig. 1

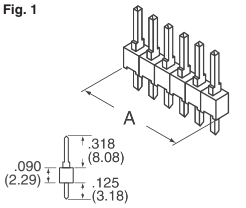

Fig. 2

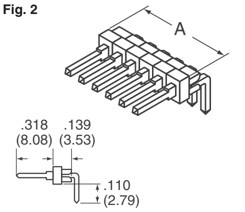

Fig. 3

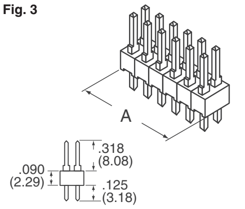

Fig. 4

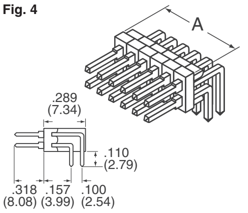

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part Now.	Price Each 1	25	AMP Part No.
Single Row						
Fig. 1 — .025” (.64mm) Square Straight Post						
1	A	.084 (2.13)	A26540-ND	.66	.60	87220-1
	B		A26541-ND	.48	.44	87224-1
2	A	.184 (4.67)	A26542-ND	1.20	1.08	87220-2
	B		A26543-ND	1.05	.95	87224-2
3	A	.284 (7.21)	A26544-ND	1.59	1.44	87220-3
	B		A26545-ND	1.17	1.06	87224-3
4	A	.384 (9.75)	A26546-ND	2.07	1.87	87220-4
	B		A26547-ND	1.71	1.54	87224-4
5	A	.484 (12.29)	A26548-ND	2.37	2.14	87220-5
	B		A26549-ND	1.89	1.71	87224-5
6	A	.584 (14.83)	A26550-ND	2.70	2.43	87220-6
	B		A26551-ND	2.31	2.08	87224-6
7	A	.684 (17.37)	A26552-ND	3.24	2.92	87220-7
	B		A26553-ND	2.58	2.33	87224-7
8	A	.784 (19.91)	A26554-ND	3.54	3.19	87220-8
	B		A26555-ND	2.85	2.57	87224-8
10	A	.984 (24.99)	A26556-ND	4.35	3.92	1-87220-0
	B		A26557-ND	3.54	3.19	1-87224-0
20	A	1.984 (50.39)	A26558-ND	8.28	7.46	2-87220-0
	B		A26559-ND	6.63	5.97	2-87224-0
40	A	3.984 (101.19)	A26560-ND	16.35	14.72	4-87220-0
	B		A26561-ND	13.02	11.72	4-87224-0
Fig. 2 — .025” (.64mm) Square Right Angle Post						
1	A	.084 (2.13)	A28762-ND	.69	.63	87232-1
	B		A28763-ND	.66	.60	87233-1
2	A	.184 (4.67)	A28764-ND	1.29	1.17	87232-2
	B		A28765-ND	1.23	1.11	87233-2
3	A	.284 (7.21)	A28766-ND	1.77	1.60	87232-3
	B		A28767-ND	1.62	1.46	87233-3
4	A	.384 (9.75)	A28768-ND	2.16	1.95	87232-4
	B		A28769-ND	1.62	1.46	87233-4
5	A	.484 (12.29)	A28770-ND	2.55	2.30	87232-5
	B		A28771-ND	2.16	1.95	87233-5
6	A	.584 (14.83)	A28772-ND	3.18	2.87	87232-6
	B		A28773-ND	2.94	2.65	87233-6
7	A	.684 (17.37)	A28774-ND	3.63	3.27	87232-7
	B		A28775-ND	3.45	3.11	87233-7
8	A	.784 (19.91)	A28776-ND	3.93	3.54	87232-8
	B		A28777-ND	3.09	2.79	87233-8
10	A	.984 (24.99)	A28778-ND	4.56	4.11	1-87232-0
	B		A28779-ND	4.41	3.97	1-87233-0
20	A	1.984 (50.39)	A28780-ND	9.21	8.29	2-87232-0
	B		A28781-ND	8.49	7.65	2-87233-0
40	A	3.984 (101.19)	A26562-ND	17.52	15.77	4-87232-0
	B		A26563-ND	13.74	12.37	4-87233-0
Double Row						
Fig. 3 — .025” (.64mm) Square Straight Post						
2	A	.084 (2.13)	A26564-ND	1.29	1.17	1-87215-0
	B		A26565-ND	1.20	1.08	87227-1
4	A	.184 (4.67)	A26566-ND	2.22	2.00	1-87215-1
	B		A26567-ND	1.89	1.71	87227-2
6	A	.284 (7.21)	A26568-ND	2.67	2.41	1-87215-2
	B		A26569-ND	2.22	2.00	87227-3
8	A	.384 (9.75)	A26570-ND	3.45	3.11	87215-1
	B		A26571-ND	2.70	2.43	87227-4
10	A	.484 (12.29)	A26572-ND	4.20	3.78	87215-2
	B		A26573-ND	3.45	3.11	87227-5
12	A	.584 (14.83)	A26574-ND	4.92	4.43	87215-3
	B		A26575-ND	3.90	3.51	87227-6
14	A	.684 (17.37)	A26576-ND	5.58	5.03	87215-4
	B		A26577-ND	4.35	3.92	87227-7
16	A	.784 (19.91)	A26578-ND	6.30	5.67	87215-5
	B		A26579-ND	5.01	4.51	87227-8
20	A	.984 (24.99)	A26580-ND	7.50	6.75	87215-7
	B		A26581-ND	6.21	5.59	1-87227-0
24	A	1.184 (30.07)	A26582-ND	9.33	8.40	87215-8
	B		A26583-ND	7.20	6.48	1-87227-2
26	A	1.284 (32.61)	A26584-ND	10.20	9.18	87215-9
	B		A28694-ND	7.95	7.16	1-87227-3
34	A	1.684 (42.77)	A26585-ND	13.11	11.80	1-87215-7
	B		A28695-ND	10.35	9.32	1-87227-7
50	A	2.484 (63.09)	A26586-ND	19.38	17.45	2-87215-5
	B		A26587-ND	15.06	13.56	2-87227-5
60	A	2.984 (75.79)	A26588-ND	23.13	20.82	3-87215-0
	B		A26589-ND	18.24	16.42	3-87227-0
80	A	3.984 (101.19)	A26591-ND	30.63	27.57	4-87215-0
	B		A26590-ND	23.88	21.50	4-87227-0
Fig. 4 — .025” (.64mm) Square Right-Angle Post						
2	A	.084 (2.13)	A28782-ND	1.29	1.17	1-86479-3
	B		A28783-ND	1.20	1.08	87230-1
4	A	.184 (4.67)	A28784-ND	1.95	1.76	1-86479-4
	B		A28785-ND	1.71	1.54	87230-2
6	A	.284 (7.21)	A26592-ND	2.49	2.25	1-86479-5
	B		A26593-ND	1.95	1.76	87230-3
8	A	.384 (9.75)	A26594-ND	3.30	2.97	1-86479-6
	B		A26595-ND	2.58	2.33	87230-4
10	A	.484 (12.29)	A26596-ND	4.20	3.78	86479-3
	B		A26597-ND	3.42	3.08	87230-5
12	A	.584 (14.83)	A28786-ND	4.83	4.35	86479-4
	B		A28787-ND	4.35	3.92	87230-6
14	A	.684 (17.37)	A26598-ND	5.85	5.27	86479-5
	B		A26599-ND	5.01	4.51	87230-7
16	A	.784 (19.91)	A26600-ND	6.60	5.94	86479-2
	B		A26601-ND	5.16	4.65	87230-8
20	A	.984 (24.99)	A26602-ND	8.16	7.35	86479-1
	B		A26603-ND	6.30	5.67	1-87230-0
24	A	1.184 (30.07)	A28788-ND	9.78	8.81	86479-7
	B		A28789-ND	8.28	7.46	1-87230-2
26	A	1.284 (32.61)	A26604-ND	10.62	9.56	1-86479-0
	B		A26605-ND	8.16	7.35	1-87230-3
30	A	1.484 (37.69)	A26606-ND	12.27	11.05	1-86479-9
	B		A26607-ND	9.57	8.62	1-87230-5
50	A	2.484 (63.09)	A26608-ND	22.44	20.20	2-86479-9
	B		A26609-ND	15.90	14.31	2-87230-5
60	A	2.984 (75.79)	A28790-ND	24.42	21.98	3-86479-4
	B		A28791-ND	20.01	18.01	3-87230-0
80	A	3.984 (101.19)	A26610-ND	32.13	28.92	4-86479-4
	B		A26611-ND	24.15	21.74	4-87230-0

AMPMODU Unshrouded Breakaway Headers - .100” Centers

MATERIAL:
- Housing: Black thermoplastic, 94V-0 rated • Posts: Phosphor bronze

Contact Plating:

A: 30μ gold on contact area, 100μ ~ 200μ tin-lead on solder area, with entire post underplated 50μ nickel **B:** 15μ gold on contact area, 100μ ~ 200μ tin-lead on solder area, with entire post underplated 50μ nickel **C:** 100μ ~ 200μ tin-lead over 50μ nickel on entire post **D:** 100μ ~ 200μ tin over 50μ nickel on entire post

40 Pin Headers

No. of Pos.	Plating	Dimensions Inch (mm)		Digi-Key Part No.	Price Each		AMP Part No.
		A	B		1	10	
Single Row							
Fig. 1 — .025” (.64mm) Square Straight Post							
40	A	.090 (2.29)	.230 (5.84)	A26508-40-ND	2.19	1.96	4-103747-0
	C			A26509-40-ND	1.39	1.25	4-103741-0
	A	.120 (3.05)	.230 (5.84)	A26512-40-ND	2.29	2.05	4-103239-0
	B			A26513-40-ND	2.09	1.87	4-103185-0
	C			A26514-40-ND	1.49	1.34	4-103327-0
	B	.125 (3.18)	.318 (8.08)	A26519-40-ND	2.19	1.96	4-102972-0
	C			A26520-40-ND	1.59	1.43	4-103321-0
Fig. 1 — .025” (.64mm) Square Straight Post RoHS Compliant							
40	D	.090 (2.29)	.230 (5.84)	A32700-40-ND	2.57	2.30	9-146285-0
	C			A34253-40-ND	1.99	1.78	9-146282-0
	A	.120 (3.05)	.230 (5.84)	A34254-40-ND	2.69	2.41	9-146281-0
	D			A32701-40-ND	2.49	2.23	9-146280-0
	C			A34256-40-ND	2.03	1.82	9-146278-0
	A	.125 (3.18)	.318 (8.08)	A34257-40-ND	2.70	2.42	9-146277-0
	D			A32703-40-ND	2.51	2.25	9-146276-0
	C			A34259-40-ND	2.12	1.91	9-146274-0
Fig. 2 — .025” (.64mm) Square Right Angle Post							
40	A	.090 (2.29)	.230 (5.84)	A26510-40-ND	2.55	2.28	4-103765-0
	C			A26511-40-ND	2.88	2.58	4-103759-0
	C			A26517-40-ND	2.09	1.87	4-103329-0
Fig. 2 — .025” (.64mm) Square Right Angle Post RoHS Compliant							
40	A	.090 (2.29)	.230 (5.84)	A34260-40-ND	2.55	2.28	9-103765-0
	C			A34261-40-ND	2.88	2.58	9-103759-0
	A	.120 (3.05)	.230 (5.84)	A34262-40-ND	4.18	3.74	9-146304-0
	D			A32702-40-ND	2.59	2.32	9-103325-0
	C			A34264-40-ND	2.09	1.87	9-103329-0
	A	.110 (2.79)	.318 (8.08)	A34265-40-ND	4.28	3.83	9-146305-0
	D			A32704-40-ND	2.69	2.41	9-102974-0
	D			A32705-40-ND	2.19	1.96	9-103323-0
Double Row							
Fig. 3 — .025” (.64mm) Square Straight Post							
80	A	.090 (2.29)	.230 (5.84)	A26524-40-ND	3.26	2.92	4-103783-0
	C			A26525-40-ND	2.31	2.07	4-103777-0
	A	.120 (3.05)	.230 (5.84)	A26528-40-ND	3.38	3.03	4-103240-0
	B			A26529-40-ND	2.98	2.67	4-103186-0
	C			A26530-40-ND	2.39	2.14	4-103328-0
	A	.125 (3.18)	.318 (8.08)	A26534-40-ND	3.58	3.21	4-102977-0
	B			A26535-40-ND	3.18	2.85	4-102973-0
	C			A26536-40-ND	2.59	2.32	4-103322-0
Fig. 3 — .025” (.64mm) Square Straight Post RoHS Compliant							
80	A	.090 (2.29)	.230 (5.84)	A34268-40-ND	4.13	3.70	9-146261-0
	A	.120 (3.05)	.230 (5.84)	A34977-40-ND	4.38	3.92	9-146257-0
	B			A34269-40-ND	3.86	3.46	9-146256-0
	C	.120 (3.05)	.230 (5.84)	A34976-40-ND	2.98	2.67	9-146254-0
	C	090 (2.29)	.230 (5.84)	A34344-40-ND	2.59	2.32	9-146258-0
	A	.125 (3.18)	.318 (8.08)	A34270-40-ND	4.44	3.98	9-146253-0
	D			A32707-40-ND	4.06	3.63	9-146252-0
	C			A34272-40-ND	3.38	3.03	9-146250-0
Fig. 4 — .025” (.64mm) Square Right Angle Post							
80	A	.090 (2.29)	.230 (5.84)	A26526-40-ND	3.98	3.56	4-103801-0
	C			A26527-40-ND	3.38	3.03	4-103795-0
	B	.120 (3.05)	.230 (5.84)	A26532-40-ND	3.98	3.56	4-103326-0
	C			A26533-40-ND	3.58	3.21	4-103330-0
	A	.110(2.79)	.318 (8.08)	A26537-40-ND	4.38	3.92	4-102979-0
	C			A26539-40-ND	3.78	3.39	4-103324-0
Fig. 4 — .025” (.64mm) Square Right Angle Post RoHS Compliant							
80	A	.090 (2.29)	.230 (5.84)	A34273-40-ND	3.98	3.56	9-103801-0
	C			A34274-40-ND	3.38	3.03	9-103795-0
	A	.120 (3.05)	.230 (5.84)	A34275-40-ND	7.36	6.59	9-146308-0
	D			A32706-40-ND	3.98	3.56	9-103326-0
	C			A34277-40-ND	3.58	3.21	9-103330-0
	A	.110 (2.79)	.318 (8.08)	A34278-40-ND	7.56	6.77	9-146309-0
	B			A34346-40-ND	4.18	3.74	9-102975-0
	C			A34279-40-ND	3.78	3.39	9-103324-0

Step 1 Digi-Key Part No.	Step 2 Base Price	Step 3 Pin Adder
Single Row		
.025” (.64mm) Square Straight Post		
A26508-XX-ND	.76	.04
A26509-XX-ND	.30	.03
A26512-XX-ND	.87	.04
A26513-XX-ND	.66	.04
A26514-XX-ND	.41	.03
A26519-XX-ND	.76	.04
A26520-XX-ND	.52	.03
.025” (.64mm) Square Straight Post RoHS Compliant		
A32700-XX-ND	.77	.05
A34253-XX-ND	.55	.04
A34254-XX-ND	.90	.05
A32701-XX-ND	.69	.05
A34256-XX-ND	.59	.04
A34257-XX-ND	.91	.05
A32703-XX-ND	.71	.05
A34259-XX-ND	.69	.04
.025” (.64mm) Square Right Angle Post		
A26510-XX-ND	.75	.05
A26511-XX-ND	1.10	.05
A26517-XX-ND	.66	.04
.025” (.64mm) Square Right Angle Post RoHS Compliant		
A34260-XX-ND	.75	.05
A34261-XX-ND	1.10	.05
A34262-XX-ND	1.31	.08
A32702-XX-ND	.80	.05
A34264-XX-ND	.66	.04
A34265-XX-ND	1.42	.08
A32704-XX-ND	.90	.05
A32705-XX-ND	.76	.04
Double Row		
.025” (.64mm) Square Straight Post		
A26524-XX-ND	1.12	.06
A26525-XX-ND	.89	.04
A26528-XX-ND	1.24	.06
A26529-XX-ND	1.21	.05
A26530-XX-ND	.97	.04
A26534-XX-ND	1.45	.06
A26535-XX-ND	1.03	.06
A26536-XX-ND	.80	.05
.025” (.64mm) Square Straight Post RoHS Compliant		
A34268-XX-ND	1.26	.08
A34977-XX-ND	1.52	.08
A34269-XX-ND	1.36	.07
A34976-XX-ND	1.21	.05
A34344-XX-ND	.80	.05
A34270-XX-ND	1.59	.08
A32707-XX-ND	1.57	.07
A34272-XX-ND	1.24	.06
.025” (.64mm) Square Right Angle Post		
A26526-XX-ND	1.49	.07
A26527-XX-ND	1.24	.06
A26532-XX-ND	1.49	.07
A26533-XX-ND	1.45	.06
A26537-XX-ND	1.52	.08
A26539-XX-ND	1.28	.07
.025” (.64mm) Square Right Angle Post RoHS Compliant		
A34273-XX-ND	1.49	.07
A34274-XX-ND	1.24	.06
A34275-XX-ND	2.73	.13
A32706-XX-ND	1.49	.07
A34277-XX-ND	1.45	.06
A34278-XX-ND	2.55	.14
A34346-XX-ND	1.31	.08
A34279-XX-ND	1.28	.07

Fig. 1

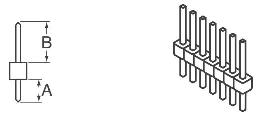

Fig. 2

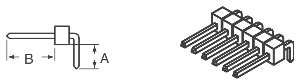

Fig. 3

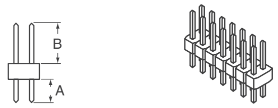

Fig. 4

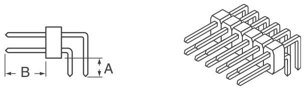

HOW TO ORDER:
4 EASY STEPS

How do I order an A26508 header with 16 pins?

Call Digi-Key for pricing, or determine the cost yourself following the steps below.

A □□□□□ - □□ - ND

Base Part Number

Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate “Base Price” of your selected part number (refer to chart).

Step 3. Multiply the number of pins you desire (minus one) by the “Pin Adder” of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1.	A26508-16-ND	
Step 2.	.73	*(1 pin – Base Price)*
Step 3.	15 x .04 = .60	*(15 pins – Pin Adder)*
Step 4.	Your Cost = $1.33	*(16 pins – Total)*

***NOTE:* For quantities of 10 or more, call DIGI-KEY.**

AMPMODU PCB Connectors - .100" (2.54mm) Centers

PERFORMANCE SPECIFICATIONS: • Current Rating: 3 amp maximum for single contact: 2 amp maximum per contact for fully energized connector • Voltage Rating: 250VAC • Dielectric Rating: 750VAC rms between contacts for one minute • Insulation Resistance: 1000MΩ after temperature/humidity cycling • Temperature Rating: Headers; -65°C ~ 105°C Receptacle Assemblies;-65°C ~ 125°C • Durability: 200 cycles for 30μ gold plating (75 cycles for 15μ gold plating) MATERIAL: Headers: • Housing: Black thermoplastic, 94V-0 rated • Posts: Phosphor bronze Receptacles: • Housing: Brown thermoplastic, 94V-0 rated, high temperature compatible • Contacts: Phosphor bronze

Contact/Post Plating: A: 30μ gold on contact area, 100μ ~ 200μ bright tin-lead on termination end, with entire post underplated 50μ nickel **B:** 15μ gold on contact area, 100μ ~ 200μ bright tin-lead on termination end, with entire post underplated 50μ nickel **C:** 30μ gold on contact area, 50μ ~ 100μ bright tin-lead on solder area, with entire contact underplated 50μ nickel **D:** 15μ gold on contact area, 50μ ~ 100μ bright tin-lead on solder area, with entire contact underplated 50μ nickel

Fig. 1

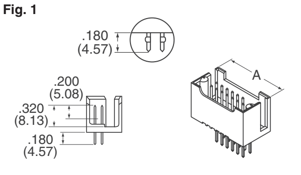

Fig. 2

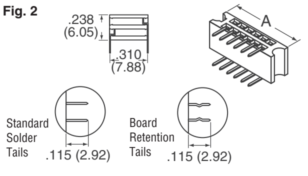

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Fig. 1 — Headers						
Straight Post with Standard Solder Tails						
12	A	.980 (24.89)	A26375-ND	3.36	3.03	102692-1
	B		A26376-ND	3.06	2.76	102567-1
16	A	1.180 (29.97)	A26379-ND	4.17	3.76	1-102692-5
20	B	1.380 (35.05)	A26380-ND	3.96	3.57	1-102567-1
24	A	1.580 (40.13)	A26382-ND	5.10	4.59	102692-2
	B		A26383-ND	4.44	4.00	102567-2
30	A	1.880 (47.75)	A26385-ND	5.97	5.38	1-102692-7
	B		A26386-ND	3.96	3.57	1-102567-3
36	A	2.180 (55.37)	A26388-ND	6.90	6.21	102692-3
	B		A26389-ND	11.67	10.51	102567-3
40	A	2.380 (60.45)	A26391-ND	7.50	6.75	1-102692-3
	B		A26392-ND	5.61	5.05	1-102567-2
50	B	2.880 (73.15)	A26394-ND	7.59	6.84	102567-6
60	A	3.380 (85.85)	A26396-ND	10.47	9.43	102692-5
	B		A26397-ND	8.61	7.75	102567-4
80	B	4.380 (111.25)	A26401-ND	11.43	10.29	102567-8
100	A	5.380 (136.65)	A26402-ND	17.01	15.31	102692-8
Straight Post with Standard Solder Tails RoHS Compliant						
12	B	.980 (24.89)	A34280-ND	2.85	2.57	5-102567-1
16	A	1.180 (29.97)	A34282-ND	3.90	3.51	6-102692-5
20	B	1.380 (35.05)	A34283-ND	3.72	3.35	6-102567-1
30	A	1.880 (47.75)	A34284-ND	4.35	3.92	6-102692-7
	B		A34285-ND	3.72	3.35	6-102567-3
36	A	2.180 (55.37)	A34286-ND	6.45	5.81	5-102692-3
	B		A34287-ND	10.95	9.86	5-102567-3
40	A	2.380 (60.45)	A34288-ND	7.02	6.32	6-102692-3
	B		A34289-ND	5.22	4.70	6-102567-2
50	B	2.880 (73.15)	A34290-ND	7.14	6.43	5-102567-6
70	B	3.880 (98.55)	A34293-ND	7.17	6.46	6-102567-0
80	B	4.380 (111.25)	A34294-ND	10.71	9.64	5-102567-8
100	A	5.380 (136.65)	A34295-ND	15.90	14.31	5-102692-8
With Board Retention Tails						
12	A	.980 (24.89)	A26377-ND	3.93	3.54	1-534978-6
20		1.380 (35.05)	A26381-ND	5.76	5.19	534978-3
24	A	1.580 (40.13)	A26384-ND	5.13	4.62	534978-4
30		1.880 (47.75)	A26387-ND	6.00	5.40	534978-5
36		2.180 (55.37)	A26390-ND	6.90	6.21	534978-6
50		2.880 (73.15)	A26395-ND	9.03	8.13	534978-8
60		3.380 (85.85)	A26398-ND	9.72	8.75	534978-9
110		5.880 (149.35)	A26378-ND	18.48	16.64	1-534978-2
With Board Retention Tails —RoHS Compliant						
20	A	1.380 (35.05)	A34296-ND	5.37	4.84	5-534978-3
24		1.580 (40.13)	A34971-ND	4.83	4.35	5-534978-4
30		1.880 (47.75)	A34297-ND	4.35	3.92	5-534978-5
50		2.880 (73.15)	A34973-ND	8.43	7.59	5-534978-8
110		5.880 (149.35)	A34281-ND	17.31	15.58	6-534978-2
Fig. 2 — Receptacles Horizontal Mount, Closed Entry						
Standard Solder Tails						
12	C	.858 (21.79)	A26340-ND	3.42	3.10	532956-1
	D		A26341-ND	3.23	2.93	532955-1
16	C	1.058 (26.87)	A26343-ND	3.45	3.12	532956-2
20	C	1.258 (31.95)	A26344-ND	6.78	6.15	532956-3
	D		A26345-ND	5.07	4.59	532955-3
24	C	1.458 (37.03)	A26347-ND	6.31	5.72	532956-4
	D		A26348-ND	5.99	5.43	532955-4
30	C	1.758 (44.65)	A26350-ND	9.17	8.31	532956-5
	D		A26351-ND	8.98	8.14	532955-5
36	D	2.058 (52.27)	A26354-ND	8.37	7.59	532955-6
40	C	2.258 (57.35)	A26356-ND	5.35	4.85	532956-7
	D		A26357-ND	5.62	5.10	532955-7
50	C	2.758 (70.05)	A26359-ND	11.77	10.66	532956-8
	D		A26360-ND	12.80	11.60	532955-8
60	C	3.258 (82.75)	A26362-ND	17.20	15.58	532956-9
	D		A26363-ND	12.64	11.45	532955-9
70	D	3.758 (95.45)	A26365-ND	11.21	10.16	1-532955-0
80	C	4.258 (108.15)	A26367-ND	13.94	12.63	1-532956-2
100	C	5.258 (133.55)	A26369-ND	21.89	19.83	1-532956-6
120	C	6.258 (158.95)	A26373-ND	33.07	29.96	1-532956-8
	D		A26374-ND	30.37	27.51	1-532955-8
Standard Solder Tails — RoHS Compliant						
12	C	.858 (21.79)	A34301-ND	3.21	2.91	5-532956-1
	D	.858 (21.79)	A32548-ND	2.99	2.72	5-532955-1
16	C	1.058 (26.87)	A34302-ND	4.21	3.82	5-532956-2
20	C	1.258 (31.95)	A34303-ND	5.11	4.64	5-532956-3
	D		A34304-ND	4.75	4.31	5-532955-3
24	D	1.458 (37.03)	A34306-ND	5.59	5.07	5-532955-4
30	C	1.758 (44.65)	A34307-ND	7.16	6.48	5-532956-5
	D		A34308-ND	6.78	6.15	5-532955-5
36	D	2.058 (52.27)	A34309-ND	7.84	7.11	5-532955-6
40	C	2.258 (57.35)	A34310-ND	5.01	4.54	5-532956-7
	D		A34311-ND	4.43	4.02	5-532955-7
50	C	2.758 (70.05)	A34312-ND	11.00	9.96	5-532956-8
	D		A34313-ND	10.12	9.17	5-532955-8
60	C	3.258 (82.75)	A34314-ND	12.88	11.67	5-532956-9
	D		A34315-ND	11.85	10.73	5-532955-9
70	D	3.758 (95.45)	A34316-ND	10.49	9.51	6-532955-0
80	C	4.258 (108.15)	A34317-ND	13.06	11.84	6-532956-2
100	C	5.258 (133.55)	A34318-ND	20.51	18.58	6-532956-6
	D		A34319-ND	19.11	17.31	6-532955-6
Board Retention Tails						
12	C	.858 (21.79)	A26342-ND	4.72	4.28	534204-2
20		1.258 (31.95)	A26346-ND	5.43	4.92	534204-9
24		1.458 (37.03)	A26349-ND	6.33	5.74	1-534204-1
30		1.758 (44.65)	A26352-ND	7.69	6.96	534204-4
36		2.058 (52.27)	A26355-ND	10.23	9.27	534204-3
40	C	2.258 (57.35)	A26358-ND	9.54	8.64	1-534204-2
50		2.758 (70.05)	A26361-ND	11.26	10.20	534204-1
60		3.258 (82.75)	A26364-ND	13.57	12.29	534204-5
70		3.758 (95.45)	A26366-ND	15.90	14.40	1-534204-3
80		4.258 (108.15)	A26368-ND	22.66	20.52	534204-8
110	C	5.758 (146.25)	A26372-ND	24.33	22.04	1-534204-6
Board Retention Tails —RoHS Compliant						
12	C	.858 (21.79)	A34322-ND	4.37	3.96	5-534204-2
20		1.258 (31.95)	A34323-ND	5.11	4.64	5-534204-9
24		1.458 (37.03)	A34324-ND	5.96	5.40	6-534204-1
30		1.758 (44.65)	A34325-ND	7.16	6.48	5-534204-4
36		2.058 (52.27)	A34326-ND	9.57	8.67	5-534204-3
50	C	2.758 (70.05)	A34328-ND	10.52	9.53	5-534204-1
60		3.258 (82.75)	A34329-ND	12.72	11.52	5-534204-5
70		3.758 (95.45)	A34330-ND	11.47	10.40	6-534204-3
110		5.758 (146.25)	A34331-ND	22.79	20.64	6-534204-6

AMPMODU Shrouded Headers - .100" (2.54mm) Centers

MATERIAL:
Housing: Black thermoplastic, 94V-0 rated **Posts:** Copper alloy

Contact Plating:
A: 30μ gold on contact area, 100μ ~ 200μ tin-lead on solder area, with entire post underplated 50μ nickel **B:** 15μ gold on contact area, 100μ ~ 200μ tin-lead on solder area, with entire post underplated 50μ nickel **C:** 100μ ~ 200μ tin-lead over 50μ nickel on entire post

Fig. 1

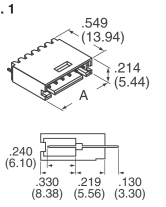

Fig. 2

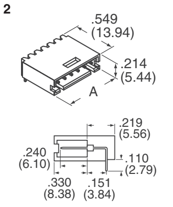

Fig. 3

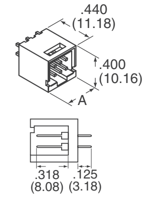

Fig. 4

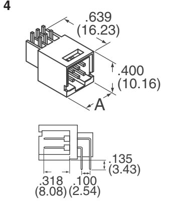

Fig. 5

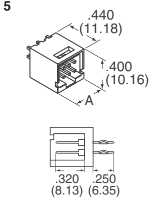

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Single Row						
Fig. 1 – .025" (.64mm) Square Straight Post, with Standoffs						
3	A	.420 (10.67)	A26612-ND	1.50	1.35	103414-1
	B		A26613-ND	1.50	1.35	3-102202-4
	C		A26614-ND	1.47	1.33	103080-1
4	A	.520 (13.21)	A26615-ND	1.65	1.49	103414-2
	B		A26616-ND	1.55	1.40	102202-1
	C		A26617-ND	1.53	1.38	103080-2
5	A	.620 (15.75)	A26618-ND	3.36	3.03	103414-3
	B		A26619-ND	2.81	2.53	102202-2
	C		A26620-ND	2.65	2.39	103080-3
6	A	.720 (18.29)	A26621-ND	3.39	3.06	103414-4
	B		A26623-ND	3.21	2.89	102202-3
	C		A26624-ND	3.09	2.79	103080-4
7	A	.820 (20.83)	A26625-ND	2.25	2.03	103414-5
	B		A26626-ND	3.39	3.06	102202-4
	C		A26627-ND	3.21	2.89	103080-5
8	A	.920 (23.37)	A26628-ND	3.78	3.41	103414-6
	B		A26629-ND	3.51	3.16	102202-5
	C		A26630-ND	3.39	3.06	103080-6
9	B	1.020 (25.91)	A26631-ND	2.46	2.22	102202-6
10	A	1.120 (28.45)	A26632-ND	4.08	3.68	103414-8
	B		A26633-ND	3.93	3.54	102202-7
	C		A26634-ND	3.72	3.35	103080-8
11	B	1.220 (30.99)	A26635-ND	4.08	3.68	102202-8
12	A	1.320 (33.53)	A26636-ND	4.74	4.27	1-103414-0
	B		A26637-ND	4.38	3.95	102202-9
	C		A26638-ND	4.14	3.73	1-103080-0
13	A	1.420 (36.07)	A26639-ND	4.56	4.11	1-103414-1
	B		A26640-ND	4.59	4.14	1-102202-0
	C		A26641-ND	4.47	4.03	1-103080-1
14	A	1.520 (38.61)	A26642-ND	5.13	4.62	1-103414-2
	B		A26643-ND	4.86	4.38	1-102202-1
	C		A26644-ND	4.68	4.22	1-103080-2
16	A	1.720 (43.69)	A26645-ND	5.70	5.13	1-103414-4
	B		A26646-ND	5.34	4.81	1-102202-3
18	A	1.920 (48.77)	A26648-ND	7.77	7.00	1-103414-6
	B		A26649-ND	5.82	5.24	1-102202-5
	C		A26650-ND	7.59	6.84	1-103080-6
Fig. 1 – .025" (.64mm) Square Straight Post, with Standoffs — RoHS Compliant						
3	A	.420 (10.67)	A32977-ND	1.41	1.27	5-103414-1
	B		A32559-ND	1.40	1.27	8-102202-4
	C		A32978-ND	1.32	1.19	5-103080-1
4	A	.520 (13.21)	A32979-ND	1.56	1.41	5-103414-2
	B		A32551-ND	1.45	1.31	5-102202-1
	C		A32980-ND	1.44	1.30	5-103080-2
5	A	.620 (15.75)	A32981-ND	3.12	2.81	5-103414-3
	B		A32552-ND	2.63	2.37	5-102202-2
	C		A32982-ND	2.48	2.23	5-103080-3
6	A	.720 (18.29)	A32983-ND	3.15	2.84	5-103414-4
	B		A32984-ND	3.03	2.73	5-102202-3
7	A	.820 (20.83)	A32986-ND	2.07	1.87	5-103414-5
	B		A32553-ND	2.01	1.81	5-102202-4
	C		A32987-ND	1.95	1.76	5-103080-5
8	A	.920 (23.37)	A32988-ND	3.57	3.22	5-103414-6
	B		A32989-ND	3.30	2.97	5-102202-5
	C		A34988-ND	3.15	2.84	5-103080-6
9	B	1.020 (25.91)	A32990-ND	2.28	2.06	5-102202-6

(Continued)

AMPMODU Shrouded Headers - .100” (2.54mm) Centers *(Cont.)*

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
10	A	1.120 (28.45)	A32991-ND	3.84	3.46	5-103414-8
	B		A32554-ND	3.66	3.30	5-102202-7
	C		A32992-ND	3.48	3.14	5-103080-8
11	B	1.220 (30.99)	A32993-ND	3.84	3.46	5-102202-8
12	A	1.320 (33.53)	A32994-ND	4.47	4.03	6-103414-0
	B		A32995-ND	4.08	3.68	5-102202-9
	C		A32996-ND	3.90	3.51	6-103080-0
13	A	1.420 (36.07)	A35006-ND	4.26	3.84	6-103414-1
	C		A35002-ND	4.20	3.78	6-103080-1
14	A	1.520 (38.61)	A32998-ND	4.77	4.30	6-103414-2
	B		A32999-ND	4.56	4.11	6-102202-1
	C		A33000-ND	4.41	3.97	6-103080-2
16	A	1.720 (43.69)	A33001-ND	5.34	4.81	6-103414-4
	B		A33002-ND	5.01	4.51	6-102202-3
18	A	1.920 (48.77)	A33003-ND	5.43	4.89	6-103414-6
	B		A33004-ND	5.49	4.95	6-102202-5
20	B	2.120 (53.85)	A33007-ND	5.94	5.35	6-102202-7

Fig. 2 – .025” (.64mm) Square Right Angle Post, with Standoffs

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
3	A	.420 (10.67)	A26654-ND	1.53	1.38	103361-1
	B		A26655-ND	1.55	1.40	3-102203-4
4	A	.520 (13.21)	A26657-ND	1.86	1.68	103361-2
	B		A26658-ND	1.72	1.55	102203-1
	C		A26659-ND	1.50	1.35	102523-1
5	A	.620 (15.75)	A26660-ND	3.21	2.89	103361-3
	B		A26661-ND	3.12	2.81	102203-2
	C		A26662-ND	2.58	2.33	102523-3
6	A	.720 (18.29)	A26663-ND	3.36	3.03	103361-4
	B		A26664-ND	3.21	2.89	102203-3
	C		A26665-ND	2.58	2.33	102523-4
7	A	.820 (20.83)	A26666-ND	2.43	2.19	103361-5
	B		A26667-ND	2.28	2.06	102203-4
	C		A26668-ND	2.88	2.60	102523-5
8	A	.920 (23.37)	A26669-ND	3.99	3.60	103361-6
	B		A26670-ND	3.72	3.35	102203-5
	C		A26671-ND	3.00	2.70	102523-6
10	A	1.120 (28.45)	A26672-ND	4.47	4.03	103361-8
	B		A26673-ND	4.14	3.73	102203-7
	C		A26674-ND	3.18	2.87	102523-8
12	A	1.320 (33.53)	A26675-ND	4.98	4.49	1-103361-0
	B		A26676-ND	4.74	4.27	102203-9
	C		A26677-ND	3.45	3.11	1-102523-0
14	B	1.520 (38.61)	A26679-ND	5.19	4.68	1-102203-1
	C		A26680-ND	3.66	3.30	1-102523-2
15	B	1.620 (41.15)	A26681-ND	6.78	6.11	1-102203-2
16	A	1.720 (43.69)	A26682-ND	6.21	5.59	1-103361-4
	B		A26683-ND	5.82	5.24	1-102203-3
18	B	1.920 (48.77)	A26685-ND	6.27	5.65	1-102203-5
20	A	2.120 (53.85)	A26686-ND	10.47	9.43	1-103361-8
	B		A26687-ND	6.99	6.30	1-102203-7

Fig. 2 – .025” (.64mm) Square Right Angle Post, with Standoffs — RoHS Compliant

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
3	A	.420 (10.67)	A35068-ND	1.44	1.30	5-103361-1
	B		A33008-ND	1.45	1.31	8-102203-4
	C		A33009-ND	1.23	1.11	5-102523-2
4	A	.520 (13.21)	A33010-ND	1.77	1.60	5-103361-2
	B		A34978-ND	1.61	1.45	5-102203-1
	C		A33011-ND	1.35	1.22	5-102523-1
5	A	.620 (15.75)	A33012-ND	3.03	2.73	5-103361-3
	B		A33013-ND	2.94	2.65	5-102203-2
	C		A33014-ND	2.40	2.16	5-102523-3
6	A	.720 (18.29)	A32557-ND	3.12	2.81	5-103361-4
	B		A33015-ND	3.03	2.73	5-102203-3
	C		A34979-ND	2.40	2.16	5-102523-4
7	A	.820 (20.83)	A33016-ND	2.25	2.03	5-103361-5
	B		A33017-ND	2.13	1.92	5-102203-4
	C		A33018-ND	1.77	1.60	5-102523-5
8	A	.920 (23.37)	A33019-ND	3.75	3.38	5-103361-6
	B		A33020-ND	3.48	3.14	5-102203-5
	C		A33021-ND	2.82	2.54	5-102523-6
10	A	1.120 (28.45)	A32558-ND	4.20	3.78	5-103361-8
	B		A33022-ND	3.90	3.51	5-102203-7
	C		A33023-ND	3.00	2.70	5-102523-8
12	A	1.320 (33.53)	A33024-ND	4.65	4.19	6-103361-0
	B		A33025-ND	4.47	4.03	5-102203-9
	C		A34992-ND	3.21	2.89	6-102523-0
14	A	1.520 (38.61)	A33026-ND	5.22	4.70	6-103361-2
	B		A33027-ND	4.80	4.32	6-102203-1
	C		A34993-ND	3.42	3.08	6-102523-2
15	C	1.620 (41.15)	A33028-ND	6.36	5.73	6-102203-2
16	A	1.720 (43.69)	A33029-ND	5.82	5.24	6-103361-4
	B		A33030-ND	5.46	4.92	6-102203-3
	C		A33031-ND	3.66	3.30	6-102523-4
18	B	1.920 (48.77)	A34991-ND	5.85	5.27	6-102203-5
20	A	2.120 (53.85)	A35005-ND	6.99	6.30	6-103361-8
	B		A33032-ND	6.57	5.92	6-102203-7

Double Row - .066” (1.68mm) Pin to Shroud End Dimension

Fig. 3 – .025” (.64mm) Square Straight Post, with Detent Windows

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
6	A	.412 (10.46)	A26708-ND	2.52	2.27	103168-1
	B		A26709-ND	2.04	1.84	102618-1
	C		A26710-ND	3.21	2.89	3-87589-6
8	A	.512 (13.00)	A26711-ND	3.15	2.84	103168-2
	B		A26712-ND	2.61	2.35	102618-2
	C		A26713-ND	2.25	2.03	3-87589-5
10	A	.612 (15.54)	A26714-ND	3.93	3.54	103168-3
	B		A26715-ND	3.09	2.79	102618-3
	C		A26716-ND	3.78	3.41	87589-1
12	A	.712 (18.08)	A26717-ND	4.47	4.03	103168-4
	B		A26718-ND	2.98	2.68	102618-4
	C		A26719-ND	2.88	2.40	87589-2
14	A	.812 (20.62)	A26720-ND	5.07	4.57	103168-5
	B		A26721-ND	3.93	3.54	102618-5
	C		A26722-ND	3.21	2.89	87589-3
16	A	.912 (23.16)	A26723-ND	5.61	5.05	103168-6
	B		A26724-ND	4.32	3.89	102618-6
	C		A26725-ND	3.57	3.22	87589-4
18	A	1.012 (25.70)	A26726-ND	6.15	5.54	103168-7
	B		A26727-ND	4.74	4.27	102618-7
	C		A26728-ND	5.28	4.76	87589-5
20	A	1.112 (28.24)	A26729-ND	6.90	6.21	103168-8
	B		A26730-ND	5.22	4.70	102618-8
	C		A26731-ND	6.30	5.67	87589-6
22	A	1.212 (30.78)	A26732-ND	7.47	6.73	103168-9
	B		A26733-ND	5.70	5.13	102618-9
24	A	1.312 (33.32)	A26735-ND	7.74	6.97	1-103168-0
	B		A26736-ND	6.15	5.54	1-102618-0
	C		A26737-ND	4.98	4.49	87589-8
26	A	1.412 (35.86)	A26738-ND	8.70	7.83	1-103168-1
	B		A26739-ND	6.48	5.84	1-102618-1
	C		A26740-ND	5.22	4.70	87589-9
30	A	1.612 (40.94)	A26741-ND	9.96	8.97	1-103168-3
	B		A26742-ND	7.44	6.70	1-102618-3
	C		A26743-ND	5.97	5.38	1-87589-1
34	A	1.812 (46.02)	A26744-ND	11.16	10.05	1-103168-5
	B		A26745-ND	8.28	7.46	1-102618-5
	C		A26746-ND	9.33	8.40	1-87589-3
40	A	2.112 (53.64)	A26747-ND	8.13	7.32	1-103168-8
	B		A26748-ND	9.66	8.70	1-102618-8
	C		A26749-ND	10.77	9.70	1-87589-6
50	A	2.612 (66.34)	A26750-ND	16.17	14.56	2-103168-3
	B		A26751-ND	11.88	10.70	2-102618-3
	C		A26752-ND	13.26	11.94	2-87589-1
60	A	3.112 (79.04)	A26753-ND	19.08	17.18	2-103168-8
	B		A26754-ND	14.16	12.75	2-102618-8

Fig. 3 – .025” (.64mm) Square Straight Post, with Detent Windows — RoHS Compliant

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
6	A	.412 (10.46)	A33034-ND	2.34	2.11	5-103168-1
	B		A33035-ND	1.89	1.71	5-102618-1
	C		A33036-ND	3.03	2.73	8-87589-6
8	A	.512 (13.00)	A33037-ND	2.97	2.68	5-103168-2
	B		A33038-ND	2.49	2.25	5-102618-2
	C		A33039-ND	2.07	1.87	8-87589-5
10	A	.612 (15.54)	A33040-ND	3.66	3.30	5-103168-3
	B		A33041-ND	2.88	2.60	5-102618-3
	C		A33042-ND	3.57	3.22	5-87589-1
12	A	.712 (18.08)	A33043-ND	4.20	3.78	5-103168-4
	B		A33044-ND	2.79	2.51	5-102618-4
	C		A33045-ND	2.73	2.28	5-87589-2
14	A	.812 (20.62)	A33046-ND	4.74	4.27	5-103168-5
	B		A33047-ND	3.66	3.30	5-102618-5
	C		A33048-ND	3.03	2.73	5-87589-3
16	A	.912 (23.16)	A33049-ND	5.28	4.76	5-103168-6
	B		A33050-ND	4.02	3.62	5-102618-6
	C		A33051-ND	3.33	3.00	5-87589-4
18	A	1.012 (25.70)	A32555-ND	5.76	5.19	5-103168-7
	B		A33052-ND	4.47	4.03	5-102618-7
	C		A33053-ND	4.92	4.43	5-87589-5
20	A	1.112 (28.24)	A32556-ND	6.51	5.86	5-103168-8
	B		A33054-ND	4.83	4.35	5-102618-8
	C		A33055-ND	5.88	5.30	5-87589-6
22	A	1.212 (30.78)	A33056-ND	7.02	6.32	5-103168-9
	B		A34987-ND	5.34	4.81	5-102618-9
24	A	1.312 (33.32)	A33057-ND	7.26	6.54	6-103168-0
	B		A33058-ND	5.76	5.19	6-102618-0
	C		A33059-ND	4.65	4.19	5-87589-8
26	A	1.412 (35.86)	A33060-ND	8.16	7.35	6-103168-1
	B		A33061-ND	6.06	5.46	6-102618-1
	C		A33062-ND	4.83	4.35	5-87589-9
30	A	1.612 (40.94)	A33063-ND	9.33	8.40	6-103168-3
	C		A33065-ND	5.61	5.05	6-87589-1
34	A	1.812 (46.02)	A33066-ND	10.41	9.37	6-103168-5
	B		A33067-ND	7.71	6.94	6-102618-5
	C		A33068-ND	6.24	5.62	6-87589-3
40	A	2.112 (53.64)	A33069-ND	7.59	6.84	6-103168-8
	B		A33070-ND	9.06	8.16	6-102618-8
	C		A33071-ND	7.17	6.46	6-87589-6
50	A	2.612 (66.34)	A33072-ND	15.18	13.67	7-103168-3
	B		A33073-ND	10.83	9.75	7-102618-3
	C		A33074-ND	8.97	8.08	7-87589-1
60	B	3.112 (79.04)	A35010-ND	13.26	11.94	7-102618-8

Fig. 4 – .025” (.64mm) Square Right-Angle Post, with Detent Windows

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
6	A	.412 (10.46)	A26756-ND	2.61	2.35	103166-1
	B		A26757-ND	2.22	2.00	102617-1
	C		A26758-ND	2.67	2.41	3-87579-5
8	A	.512 (13.00)	A26759-ND	3.39	3.06	103166-2
	B		A26760-ND	2.79	2.52	102617-2
	C		A26761-ND	2.73	2.46	87579-1
10	A	.612 (15.54)	A26762-ND	3.99	3.60	103166-3
	B		A26763-ND	3.33	3.00	102617-3
	C		A26764-ND	2.85	2.57	87579-2
12	A	.712 (18.08)	A26765-ND	4.44	4.00	103166-4
	B		A26766-ND	3.66	3.30	102617-4
	C		A26767-ND	3.15	2.84	87579-3
14	A	.812 (20.62)	A26768-ND	5.25	4.73	103166-5
	B		A26769-ND	4.11	3.70	102617-5
	C		A26770-ND	3.48	3.14	87579-4
16	A	.912 (23.16)	A26771-ND	5.82	5.24	103166-6
	B		A26772-ND	4.53	4.08	102617-6
	C		A26773-ND	3.81	3.43	87579-5
18	A	1.012 (25.70)	A26774-ND	6.45	5.81	103166-7
	C		A26776-ND	4.11	3.70	87579-6
20	A	1.112 (28.24)	A26777-ND	6.81	6.13	103166-8
	B		A26778-ND	5.55	5.00	102617-8
	C		A26779-ND	4.53	4.08	87579-7
24	A	1.312 (33.32)	A26780-ND	8.82	7.94	1-103166-0
	B		A26781-ND	7.95	7.16	1-102617-0
	C		A26782-ND	6.81	6.13	87579-9
26	A	1.412 (35.86)	A26783-ND	9.03	8.13	1-103166-1
	B		A26784-ND	7.11	6.40	1-102617-1
	C		A26785-ND	5.82	5.24	1-87579-0
30	A	1.612 (40.94)	A26786-ND	10.59	9.54	1-103166-3
	B		A26787-ND	8.10	7.29	1-102617-3
	C		A26788-ND	6.60	5.94	1-87579-2
34	A	1.812 (46.02)	A26789-ND	11.82	10.64	1-103166-5
40	A	2.112 (53.64)	A26791-ND	8.43	7.59	1-103166-8
50	A	2.612 (66.34)	A26794-ND	16.71	15.04	2-103166-3

Fig. 4 – .025” (.64mm) Square Right-Angle Post, with Detent Windows — RoHS Compliant

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
6	A	.412 (10.46)	A33076-ND	2.49	2.25	5-103166-1
	B		A33077-ND	2.04	1.84	5-102617-1
	C		A33078-ND	2.52	2.27	8-87579-5
8	A	.512 (13.00)	A33079-ND	3.15	2.84	5-103166-2
	B		A33080-ND	2.61	2.35	5-102617-2
10	A	.612 (15.54)	A33081-ND	3.75	3.38	5-103166-3
	B		A33082-ND	3.09	2.79	5-102617-3
	C		A33083-ND	2.67	2.41	5-87579-2
12	A	.712 (18.08)	A33084-ND	4.14	3.73	5-103166-4
	B		A34984-ND	3.39	3.06	5-102617-4
	C		A33085-ND	2.97	2.68	5-87579-3
14	A	.812 (20.62)	A33086-ND	4.86	4.38	5-103166-5
	B		A34985-ND	3.87	3.49	5-102617-5
	C		A34989-ND	3.27	2.95	5-87579-4
16	A	.912 (23.16)	A33087-ND	5.46	4.92	5-103166-6
	B		A33088-ND	4.23	3.81	5-102617-6
	C		A33089-ND	3.60	3.24	5-87579-5
18	A	1.012 (25.70)	A33090-ND	6.00	5.40	5-103166-7
	B		A34986-ND	4.71	4.24	5-102617-7
	C		A33091-ND	3.87	3.49	5-87579-6
20	A	1.112 (28.24)	A33092-ND	6.39	5.76	5-103166-8
	B		A33093-ND	5.04	4.54	5-102617-8
	C		A33094-ND	4.23	3.81	5-87579-7
24	A	1.312 (33.32)	A33095-ND	8.25	7.43	6-103166-0
	B		A34347-ND	7.44	6.70	6-102617-0
	C		A33096-ND	6.39	5.76	5-87579-9
26	A	1.412 (35.86)	A33097-ND	8.46	7.62	6-103166-1
	B		A34999-ND	6.63	5.97	6-102617-1
	C		A33098-ND	5.49	4.95	6-87579-0
30	A	1.612 (40.94)	A33099-ND	9.63	8.67	6-103166-3
	B		A35000-ND	7.56	6.81	6-102617-3
	C		A35007-ND	6.15	5.54	6-87579-2
34	A	1.812 (46.02)	A33100-ND	11.07	9.97	6-103166-5
	B		A35001-ND	8.61	7.75	6-102617-5
40	A	2.112 (53.64)	A33101-ND	7.92	7.13	6-103166-8
	B		A33102-ND	9.87	8.89	6-102617-8
	C		A35008-ND	7.98	7.19	6-87579-7
50	A	2.612 (66.34)	A35012-ND	15.63	14.07	7-103166-3
	B		A35009-ND	12.15	10.94	7-102617-3
	C		A35013-ND	9.87	8.89	7-87579-2

Fig. 5 – ACTION PIN .025” (.64mm) Square Straight Post, with Detent Windows

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
6	A	.412 (10.46)	A26690-ND	7.95	7.16	102699-2
8		.512 (13.00)	A26692-ND	9.24	8.32	102699-3
10		.612 (15.54)	A26694-ND	11.46	10.32	102699-4
16		.912 (23.16)	A26696-ND	13.83	12.45	102699-7
20		1.112 (28.24)	A26698-ND	17.04	15.34	102699-9
26	A	1.412 (35.86)	A26700-ND	16.20	14.58	1-102699-2
30		1.612 (40.94)	A26702-ND	17.04	15.34	1-102699-4
40		2.112 (53.64)	A26704-ND	19.50	17.55	1-102699-9
60		3.112 (79.04)	A26706-ND	24.33	21.90	2-102699-8

Fig. 5 – ACTION PIN .025” (.64mm) Square Straight Post, with Detent Windows — RoHS Compliant

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
6	A	.412 (10.46)	A33103-ND	7.44	6.70	5-102699-2
8		.512 (13.00)	A33104-ND	8.61	7.75	5-102699-3
10		.612 (15.54)	A33105-ND	10.74	9.67	5-102699-4
16		.912 (23.16)	A33106-ND	12.96	11.67	5-102699-7
20		1.112 (28.24)	A33107-ND	15.93	14.34	5-102699-9
26	A	1.412 (35.86)	A33108-ND	15.18	13.67	6-102699-2
40		2.112 (53.64)	A33110-ND	18.30	16.47	6-102699-9

(Continued)

AMPMODU Shrouded Headers - .100” (2.54mm) Centers *(Cont.)*

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Fig. 3 – .025” (.64mm) Square Straight Post, with Detent Windows						
6	A	.580 (14.73)	A26815-ND	2.46	2.22	103169-1
	B		A26816-ND	2.58	2.33	102619-1
8	A	.680 (17.27)	A26817-ND	3.15	2.84	103169-2
	B		A26818-ND	2.67	2.41	102619-2
10	A	.780 (19.81)	A26819-ND	3.78	3.41	103169-3
	B		A26820-ND	3.09	2.79	102619-3
12	A	.880 (22.35)	A26821-ND	4.32	3.89	103169-4
	B		A26822-ND	3.78	3.41	102619-4
14	A	.980 (24.89)	A26823-ND	4.89	4.41	103169-5
	B		A26824-ND	3.93	3.54	102619-5
16	A	1.080 (27.43)	A26825-ND	5.29	4.77	103169-6
	B		A26826-ND	4.32	3.89	102619-6
18	A	1.180 (29.97)	A26827-ND	6.15	5.54	103169-7
20	A	1.280 (32.51)	A26828-ND	6.28	5.66	103169-8
	B		A26829-ND	5.22	4.70	102619-8
24	A	1.480 (37.59)	A26830-ND	10.23	9.21	1-103169-0
26	A	1.580 (40.13)	A26832-ND	8.40	7.56	1-103169-1
	B		A26833-ND	6.48	5.84	1-102619-1
30	B	1.780 (45.21)	A26835-ND	7.41	6.67	1-102619-3
34	A	1.980 (50.29)	A26836-ND	10.80	9.72	1-103169-5
	B		A26837-ND	11.64	10.48	1-102619-5
40	B	2.280 (57.91)	A26839-ND	13.47	12.13	1-102619-8
50	A	2.780 (70.61)	A26840-ND	15.00	13.50	2-103169-3
	B		A26841-ND	11.88	10.70	2-102619-3
60	A	3.280 (83.31)	A26842-ND	18.48	16.64	2-103169-8
Fig. 3 – .025” (.64mm) Square Straight Post, with Detent Windows — RoHS Compliant						
6	A	.580 (14.73)	A33112-ND	2.28	2.06	5-103169-1
	B		A33113-ND	2.40	2.16	5-102619-1
8	A	.680 (17.27)	A33114-ND	2.97	2.68	5-103169-2
	B		A33115-ND	2.52	2.27	5-102619-2
10	A	.780 (19.81)	A33116-ND	3.57	3.22	5-103169-3
	B		A33117-ND	2.88	2.60	5-102619-3
12	A	.880 (22.35)	A33118-ND	4.02	3.62	5-103169-4
	B		A33119-ND	3.57	3.22	5-102619-4
14	A	.980 (24.89)	A33120-ND	4.59	4.14	5-103169-5
	B		A33121-ND	3.66	3.30	5-102619-5
16	A	1.080 (27.43)	A33122-ND	4.81	4.33	5-103169-6
	B		A33123-ND	4.02	3.62	5-102619-6
18	A	1.180 (29.97)	A33124-ND	5.76	5.19	5-103169-7
20	A	1.280 (32.51)	A33125-ND	5.71	5.15	5-103169-8
	B		A33126-ND	4.83	4.35	5-102619-8
24	A	1.480 (37.59)	A33127-ND	9.60	8.64	6-103169-0
	B		A33128-ND	5.76	5.19	6-102619-0
26	A	1.580 (40.13)	A33129-ND	7.86	7.08	6-103169-1
	B		A33130-ND	6.06	5.46	6-102619-1
30	A	1.780 (45.21)	A33131-ND	9.00	8.10	6-103169-3
	B		A33132-ND	6.90	6.21	6-102619-3
34	A	1.980 (50.29)	A33133-ND	10.08	9.08	6-103169-5
40	A	2.280 (57.91)	A33135-ND	7.59	6.84	6-103169-8
	B		A33136-ND	9.06	8.16	6-102619-8
50	A	2.780 (70.61)	A33137-ND	14.01	12.61	7-103169-3
	B		A33138-ND	7.17	6.46	7-102619-3
Fig. 4 – .025” (.64mm) Square Right-Angle Post, with Detent Windows						
10	A	.780 (19.81)	A26797-ND	3.93	3.54	103167-2
	B		A26798-ND	3.33	3.00	102570-3
12	A	.880 (22.35)	A26799-ND	4.44	4.00	103167-3
	B		A26800-ND	3.66	3.30	102570-4
14	A	.980 (24.89)	A26801-ND	5.01	4.51	103167-4
	B		A26802-ND	4.08	3.68	102570-5
16	A	1.080 (27.43)	A26803-ND	5.97	5.38	103167-5
	B		A26804-ND	4.56	4.11	102570-6
20	A	1.280 (32.51)	A26805-ND	6.45	5.81	103167-7
24	A	1.480 (37.59)	A26807-ND	9.39	8.46	103167-9
26	A	1.580 (40.13)	A26809-ND	8.70	7.83	1-103167-0
34	A	1.980 (50.29)	A26811-ND	10.80	9.72	1-103167-4
	B		A26813-ND	12.72	11.45	1-102570-5
Fig. 4 – .025” (.64mm) Square Right-Angle Post, with Detent Windows — RoHS Compliant						
10	A	.780 (19.81)	A33140-ND	3.66	3.30	5-103167-2
12	A	.880 (22.35)	A33141-ND	4.14	3.73	5-103167-3
	B		A34982-ND	3.39	3.06	5-102570-4
14	A	.980 (24.89)	A33142-ND	4.71	4.24	5-103167-4
	B		A34983-ND	3.84	3.46	5-102570-5
16	A	1.080 (27.43)	A33143-ND	5.61	5.05	5-103167-5
	B		A34338-ND	4.26	3.84	5-102570-6
20	A	1.280 (32.51)	A33144-ND	6.04	5.44	5-103167-7
	B		A34348-ND	5.22	4.70	5-102570-8
24	A	1.480 (37.59)	A33145-ND	8.79	7.92	5-103167-9
	B		A33146-ND	8.01	7.21	6-102570-0
26	A	1.580 (40.13)	A33147-ND	8.16	7.35	6-103167-0
	B		A34997-ND	6.63	5.97	6-102570-1
34	A	1.980 (50.29)	A33148-ND	10.08	9.08	6-103167-4
	B		A34998-ND	8.61	7.75	6-102570-5
40	B	2.280 (57.91)	A33149-ND	9.87	8.89	5-102570-1
Fig. 5 – ACTION PIN .025” (.64mm) Square Straight Post, with Detent Windows						
6	A	.580 (14.73)	A26691-ND	8.91	8.02	1-102557-0
8	A	.680 (17.27)	A26693-ND	9.66	8.70	1-102557-1
10	A	.780 (19.81)	A26695-ND	11.46	10.32	102557-9
16	A	1.080 (27.43)	A26697-ND	13.83	12.45	1-102557-4
20	A	1.280 (32.51)	A26699-ND	14.88	13.40	102557-2
30	A	1.780 (45.21)	A26703-ND	17.04	15.34	102557-4
40	A	2.280 (57.91)	A26705-ND	19.50	17.55	102557-1
60	A	3.280 (83.31)	A26707-ND	24.33	21.90	102557-7
Fig. 5 – ACTION PIN .025” (.64mm) Square Straight Post, with Detent Windows — RoHS Compliant						
6	A	.580 (14.73)	A34995-ND	8.31	7.48	6-102557-0
8	A	.680 (17.27)	A34996-ND	9.06	8.16	6-102557-1
16	A	1.080 (27.43)	A33151-ND	12.96	11.67	6-102557-4
20	A	1.280 (32.51)	A34980-ND	13.98	12.59	5-102557-2
40	A	2.280 (57.91)	A33153-ND	18.30	16.47	5-102557-1
60	A	3.280 (83.31)	A34981-ND	22.77	20.50	5-102557-7

AMPMODU MTE Shrouded Latching Headers - .100” Centers

MATERIAL:

- Housing: Black thermoplastic, 94V-0 rated
- Posts: Brass

Contact Plating:

A: 30µ gold on contact area, 100µ minimum tin-lead on solder area, with entire post underplated 50µ nickel

B: 15µ gold on contact area, 100µ minimum, tin-lead on solder area, with entire post underplated 50µ nickel

C: 100µ Tin-lead over 50µ nickel on entire post

D: 100µ Tin over 50µ nickel on entire post

Fig. 1

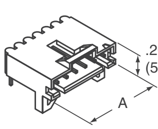

Fig. 2

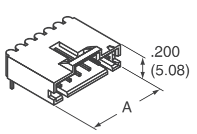

Fig. 3

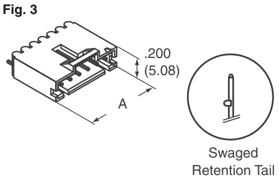

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Fig. 1 — Single Row, .025” (.64mm) Square Right Angle Post, with Holddown						
2	A	.300 (7.62)	A28574-ND	.79	.71	103904-1
	B		A28575-ND	.74	.68	103673-1
	C		A28576-ND	.51	.46	103672-1
3	A	.400 (10.16)	A28577-ND	1.17	1.06	103904-2
	B		A28578-ND	.70	.64	103673-2
	C		A28579-ND	.60	.54	103672-2
4	A	.500 (12.70)	A28580-ND	.86	.78	103904-3
	B		A28581-ND	.78	.71	103673-3
	C		A28582-ND	.80	.73	103672-3
5	A	.600 (15.24)	A28583-ND	1.13	1.02	103904-4
	B		A28584-ND	1.02	.92	103673-4
6	A	.700 (17.78)	A28586-ND	1.51	1.36	103904-5
	B		A28587-ND	.93	.85	103673-5
	C		A28588-ND	1.33	1.20	103672-5
7	A	.800 (20.32)	A28589-ND	1.55	1.40	103904-6
	B		A28590-ND	1.01	.91	103673-6
	C		A28591-ND	.68	.62	103672-6
8	A	.900 (22.86)	A28592-ND	1.67	1.51	103904-7
	B		A28593-ND	1.08	.98	103673-7
10	A	1.100 (27.94)	A28596-ND	1.81	1.63	103904-9
	B		A28597-ND	1.24	1.12	103673-9
12	A	1.300 (33.02)	A28601-ND	1.67	1.50	1-103904-1
	B		A28602-ND	1.45	1.31	1-103673-1
14	A	1.500 (38.10)	A28605-ND	1.97	1.78	1-103904-3
	B		A28606-ND	1.90	1.71	1-103673-3
15	B	1.600 (40.64)	A28607-ND	1.68	1.51	1-103673-4
16	B	1.700 (43.18)	A28608-ND	2.05	1.85	1-103673-5
17	B	1.800 (45.72)	A28522-ND	2.20	1.99	1-103673-6
20	A	2.100 (53.34)	A28612-ND	2.22	2.00	1-103904-9
	B		A28613-ND	2.36	2.13	1-103673-9
Fig. 1 — Single Row, .025” (.64mm) Square Right Angle Post, with Holddown RoHS Compliant						
2	A	.300 (7.62)	A35021-ND	1.00	.91	5-103904-1
	B		A33839-ND	.74	.68	5-103673-1
	D		A33840-ND	.59	.53	5-103672-1
3	A	.400 (10.16)	A33841-ND	1.14	1.03	5-103904-2
	B		A33842-ND	.70	.64	5-103673-2
	D		A33843-ND	.77	.70	5-103672-2
4	A	.500 (12.70)	A33844-ND	.86	.78	5-103904-3
	B		A33845-ND	.78	.71	5-103673-3
	C		A35017-ND	.92	.83	5-103672-3
5	A	.600 (15.24)	A33846-ND	1.13	1.02	5-103904-4
	B		A33847-ND	1.02	.92	5-103673-4
	C		A35018-ND	1.43	1.29	5-103672-4
6	A	.700 (17.78)	A33848-ND	1.51	1.36	5-103904-5
	B		A33849-ND	.93	.85	5-103673-5
	D		A33850-ND	1.53	1.38	5-103672-5
7	A	.800 (20.32)	A35022-ND	1.78	1.61	5-103904-6
	B		A35020-ND	1.16	1.05	5-103673-6
8	A	.900 (22.86)	A35023-ND	1.92	1.73	5-103904-7
	B		A33852-ND	1.08	.98	5-103673-7
	C		A35019-ND	1.39	1.25	5-103672-7
9	B	1,000 (25.40)	A33853-ND	1.16	1.05	5-103673-8
10	A	1,100 (27.94)	A33155-ND	2.08	1.88	5-103904-9
	B		A33854-ND	1.24	1.12	5-103673-9
	C		A34349-ND	1.21	1.10	5-103672-9
11	B	1.200 (30.48)	A35030-ND	1.85	1.67	6-103673-0
12	A	1.300 (33.02)	A35036-ND	1.92	1.73	6-103904-1
	B		A35031-ND	1.66	1.50	6-103673-1
	C		A35027-ND	1.68	1.52	6-103672-1
14	A	1.500 (38.10)	A35037-ND	2.27	2.05	6-103904-3
	B		A35032-ND	2.18	1.97	6-103673-3
15	B	1.600 (40.64)	A35033-ND	1.93	1.74	6-103673-4
16	C	1.700 (43.18)	A35028-ND	1.94	1.75	6-103672-5
17	B	1.800 (45.72)	A35034-ND	2.53	2.29	6-103673-6
20	A	2.100 (53.34)	A35038-ND	2.55	2.30	6-103904-9
	B		A35035-ND	2.72	2.45	6-103673-9
Fig. 2 — Single Row, .025” (.64mm) Square Right Angle Post, without Holddown						
2	A	.300 (7.62)	A28618-ND	.66	.60	103906-1
	B		A28619-ND	.63	.57	103635-1
	C		A28620-ND	.59	.54	103634-1
3	A	.400 (10.16)	A28621-ND	.90	.81	103906-2
	B		A28622-ND	.70	.64	103635-2
	C		A28623-ND	.65	.59	103634-2
4	A	.500 (12.70)	A28624-ND	.86	.78	103906-3
	B		A28625-ND	.78	.71	103635-3
	C		A28626-ND	.84	.77	103634-3
5	A	.600 (15.24)	A28627-ND	1.13	1.02	103906-4
	B		A28628-ND	.86	.78	103635-4
	C		A28629-ND	.71	.64	103634-4
6	A	.700 (17.78)	A28630-ND	1.21	1.09	103906-5
	B		A28631-ND	.93	.85	103635-5
	C		A28632-ND	.98	.89	103634-5
7	A	.800 (20.32)	A28633-ND	1.51	1.36	103906-6
	B		A28634-ND	1.01	.91	103635-6
	C		A28635-ND	1.26	1.14	103634-6
8	A	.900 (22.86)	A28636-ND	1.23	1.11	103906-7
	B		A28637-ND	1.08	.98	103635-7
9	A	1.000 (25.40)	A28639-ND	1.57	1.42	103906-8
	B		A28640-ND	1.16	1.05	103635-8
	C		A28641-ND	.99	.90	103634-8
10	A	1.100 (27.94)	A28642-ND	1.42	1.28	103906-9
	B		A28643-ND	1.24	1.12	103635-9
11	A	1.200 (30.48)	A28645-ND	1.57	1.42	1-103906-0
	B		A28646-ND	1.37	1.24	1-103635-0
	C		A28647-ND	1.13	1.02	1-103634-0
12	A	1.300 (33.02)	A28648-ND	1.98	1.78	1-103906-1
	B		A28649-ND	1.45	1.31	1-103635-1
	C		A28650-ND	1.21	1.09	1-103634-1

(Continued)

AMPMODU MTE Shrouded Latching Headers - .100" Centers *(Cont.)*

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
14	A	1.500 (38.10)	A28653-ND	1.86	1.68	1-103906-3
	B		A28654-ND	1.50	1.36	1-103635-3
	C		A28655-ND	1.35	1.22	1-103634-3
15	B	1.600 (40.64)	A28656-ND	1.59	1.44	1-103635-4
	C		A28657-ND	1.40	1.27	1-103634-4
16	C	1.700 (43.18)	A28659-ND	1.81	1.63	1-103634-5
17	A	1.800 (45.72)	A28557-ND	7.46	6.72	1-103906-6
20	A	2.100 (53.34)	A28661-ND	2.48	2.23	1-103906-9
	B		A28662-ND	1.90	1.71	1-103635-9

Fig. 2 — Single Row, .025" (.64mm)
Square Right Angle Post, without Holddown
RoHS Compliant

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A33855-ND	.86	.77	5-104935-5
	B		A33856-ND	.62	.56	5-103635-1
	D		A33857-ND	.60	.55	5-103634-1
3	A	.400 (10.16)	A33858-ND	.84	.76	5-104935-3
	B		A32563-ND	.77	.70	5-103635-2
	D		A33859-ND	.71	.64	5-103634-2
4	A	.500 (12.70)	A33860-ND	.94	.85	5-104935-1
	B		A33861-ND	.93	.84	5-103635-3
	D		A33862-ND	.93	.84	5-103634-3
5	A	.600 (15.24)	A33863-ND	1.13	1.02	5-104935-6
	B		A33864-ND	.88	.79	5-103635-4
	D		A33865-ND	.78	.71	5-103634-4
6	A	.700 (17.78)	A33866-ND	1.40	1.27	5-104935-7
	B		A33867-ND	1.03	.93	5-103635-5
	D		A33868-ND	1.08	.97	5-103634-5
7	A	.800 (20.32)	A33869-ND	1.49	1.34	5-104935-8
	B		A33870-ND	1.11	1.00	5-103635-6
	D		A33871-ND	1.52	1.38	5-103634-6
8	A	.900 (22.86)	A33872-ND	1.29	1.17	5-104935-2
	B		A33873-ND	1.19	1.07	5-103635-7
	D		A32562-ND	1.03	.93	5-103634-7
9	A	1.000 (25.40)	A33874-ND	1.57	1.42	5-104935-9
	B		A33875-ND	1.27	1.15	5-103635-8
	D		A33876-ND	1.09	.99	5-103634-8
10	A	1.100 (27.94)	A33877-ND	1.63	1.47	6-104935-0
	B		A33878-ND	1.36	1.23	5-103635-9
	D		A33879-ND	1.16	1.05	5-103634-9
11	A	1.200 (30.48)	A35041-ND	1.57	1.42	6-104935-1
	B		A33880-ND	1.51	1.36	6-103635-0
	D		A33881-ND	1.24	1.12	6-103634-0
12	A	1.300 (33.02)	A33882-ND	1.64	1.48	5-104935-4
	B		A33883-ND	1.59	1.44	6-103635-1
	D		A33884-ND	1.46	1.32	6-103634-1
14	A	1.500 (38.10)	A35042-ND	1.86	1.68	6-104935-3
	B		A33885-ND	1.65	1.49	6-103635-3
	D		A33886-ND	1.48	1.34	6-103634-3
15	B	1.600 (40.64)	A33887-ND	1.75	1.58	6-103635-4
	D		A33888-ND	1.54	1.39	6-103634-4
16	B	1.700 (43.18)	A33889-ND	1.81	1.63	6-103635-5
	D		A33890-ND	1.99	1.80	6-103634-5
20	A	2.100 (53.34)	A35043-ND	2.48	2.23	6-104935-9
	B		A33891-ND	1.96	1.77	6-103635-9

Polarized

Fig. 3 — Single Row, .025" (.64mm)
Square Straight Post, with Swage Retention Tail

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A28473-ND	.66	.60	103908-1
	B		A28474-ND	.63	.57	103670-1
	C		A28475-ND	.50	.45	103669-1
3	A	.400 (10.16)	A28476-ND	.76	.68	103908-2
	B		A28477-ND	.70	.64	103670-2
	C		A28478-ND	.65	.59	103669-2
4	A	.500 (12.70)	A28479-ND	.86	.78	103908-3
	B		A28480-ND	.78	.71	103670-3
	C		A28481-ND	.71	.65	103669-3
5	A	.600 (15.24)	A28482-ND	.95	.86	103908-4
	B		A28483-ND	.86	.78	103670-4
	C		A28484-ND	.77	.69	103669-4
6	A	.700 (17.78)	A28485-ND	1.04	.94	103908-5
	B		A28486-ND	.93	.85	103670-5
	C		A28487-ND	.82	.75	103669-5
7	A	.800 (20.32)	A28488-ND	1.13	1.03	103908-6
	B		A28489-ND	1.19	1.08	103670-6
	C		A28490-ND	.88	.80	103669-6
8	A	.900 (22.86)	A28491-ND	1.23	1.11	103908-7
	B		A28492-ND	1.08	.98	103670-7
	C		A28493-ND	.93	.85	103669-7
9	A	1.000 (25.40)	A28494-ND	1.33	1.20	103908-8
10	A	1.100 (27.94)	A28497-ND	1.42	1.28	103908-9
	B		A28498-ND	1.47	1.33	103670-9
	C		A28499-ND	1.05	.95	103669-9
11	A	1.200 (30.48)	A28500-ND	1.47	1.33	1-103908-0
	C		A28502-ND	1.17	1.06	1-103669-0
12	A	1.300 (33.02)	A28503-ND	1.67	1.50	1-103908-1
	B		A28504-ND	1.45	1.31	1-103670-1
	C		A28505-ND	1.39	1.26	1-103669-1
14	A	1.500 (38.10)	A28508-ND	1.86	1.68	1-103908-3
	B		A28509-ND	2.36	2.13	1-103670-3
	C		A28510-ND	1.35	1.22	1-103669-3
15	A	1.600 (40.64)	A28511-ND	1.95	1.76	1-103908-4
	B		A28512-ND	5.04	4.54	1-103670-4
	C		A28513-ND	4.93	4.44	1-103669-4
16	A	1.700 (43.18)	A28514-ND	1.91	1.72	1-103908-5
	B		A28515-ND	1.75	1.58	1-103670-5
17	B	1.800 (45.72)	A28794-ND	1.81	1.64	1-103670-6
	C		A28517-ND	1.51	1.36	1-103669-6
20	B	2.100 (53.34)	A28519-ND	2.10	1.90	1-103670-9

Fig. 3 — Single Row, .025" (.64mm)
Square Straight Post, with Swage Retention Tail
RoHS Compliant

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A33892-ND	.73	.66	5-103908-1
	D		A33893-ND	.55	.50	5-103669-1
3	A	.400 (10.16)	A33894-ND	.83	.75	5-103908-2
	D		A33895-ND	.71	.64	5-103669-2
4	A	.500 (12.70)	A33896-ND	.94	.85	5-103908-3
	D		A33897-ND	.78	.71	5-103669-3
5	A	.600 (15.24)	A33898-ND	1.04	.94	5-103908-4
	D		A33899-ND	.84	.76	5-103669-4
6	A	.700 (17.78)	A33900-ND	1.15	1.04	5-103908-5
	C		A35016-ND	.95	.86	5-103669-5
7	A	.800 (20.32)	A33901-ND	1.25	1.13	5-103908-6
	D		A33902-ND	.97	.88	5-103669-6
8	A	.900 (22.86)	A33903-ND	1.35	1.22	5-103908-7
	D		A33904-ND	1.03	.93	5-103669-7
9	A	1.000 (25.40)	A33905-ND	1.46	1.32	5-103908-8
	D		A33906-ND	1.09	.99	5-103669-8
10	A	1.100 (27.94)	A33907-ND	1.56	1.41	5-103908-9
	B		A32566-ND	1.55	1.40	5-104362-9
	D		A33908-ND	1.16	1.05	5-103669-9
11	A	1.200 (30.48)	A33909-ND	1.62	1.46	6-103908-0
	B		A33910-ND	1.64	1.48	6-104362-0
	D		A32560-ND	1.54	1.39	6-103669-0
12	A	1.300 (33.02)	A33911-ND	1.83	1.65	6-103908-1
	D		A33912-ND	1.35	1.22	6-103669-1
14	A	1.500 (38.10)	A33913-ND	2.05	1.85	6-103908-3
	B		A33914-ND	1.96	1.77	6-104909-3
	D		A33915-ND	1.31	1.18	6-103669-3
15	A	1.600 (40.64)	A33916-ND	2.15	1.94	6-103908-4
	B		A33917-ND	2.13	1.92	6-104909-4
16	A	1.700 (43.18)	A35039-ND	2.10	1.89	6-103908-5
	B		A33918-ND	2.13	1.93	6-104909-5
17	B	1.800 (45.72)	A33919-ND	2.26	2.04	6-104909-6
	C		A35025-ND	1.73	1.56	6-103669-6
20	A	2.100 (53.34)	A33920-ND	2.44	2.20	6-103908-9
	B		A35040-ND	2.34	2.11	6-104909-9

Fig. 3 — Single Row, .025" (.64mm) Square Straight Post,
without Holddown and without Swage Retention Tail

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A28523-ND	.66	.60	103735-1
	B		A28524-ND	.62	.57	103638-1
	C		A28525-ND	.53	.48	103639-1
3	A	.400 (10.16)	A28526-ND	.76	.68	103735-2
	B		A28527-ND	.68	.62	103638-2
	C		A28528-ND	.65	.59	103639-2
4	A	.500 (12.70)	A28529-ND	.77	.70	103735-3
	B		A28530-ND	.71	.64	103638-3
	C		A28531-ND	.64	.58	103639-3
5	A	.600 (15.24)	A28532-ND	.95	.86	103735-4
	B		A28533-ND	.86	.78	103638-4
	C		A28534-ND	.79	.72	103639-4
6	A	.700 (17.78)	A28535-ND	1.04	.94	103735-5
	B		A28536-ND	.93	.85	103638-5
	C		A28537-ND	.98	.89	103639-5
7	B	.800 (20.32)	A28539-ND	1.01	.91	103638-6
	C		A28540-ND	.81	.74	103639-6
8	B	.900 (22.86)	A28542-ND	1.08	.98	103638-7
	C		A28543-ND	.93	.85	103639-7
9	A	1.000 (25.40)	A28544-ND	1.43	1.29	103735-8
	B		A28545-ND	1.16	1.05	103638-8
	C		A28546-ND	.89	.81	103639-8
10	A	1.100 (27.94)	A28547-ND	1.63	1.48	103735-9
	B		A28548-ND	1.28	1.15	103638-9
11	B	1.200 (30.48)	A28551-ND	2.54	2.29	1-103638-0
	C		A28552-ND	1.17	1.06	1-103639-0
12	A	1.300 (33.02)	A28553-ND	1.56	1.41	1-103735-1
	B		A28554-ND	1.45	1.31	1-103638-1
14	B	1.500 (38.10)	A28559-ND	1.60	1.45	1-103638-3
15	B	1.600 (40.64)	A28561-ND	1.82	1.64	1-103638-4
16	B	1.700 (43.18)	A28563-ND	3.38	3.05	1-103638-5
	C		A28564-ND	1.46	1.32	1-103639-5
17	A	1.800 (45.72)	A28520-ND	2.93	2.64	1-103735-6
20	B	2.100 (53.34)	A28569-ND	2.19	1.98	1-103638-9
	C		A28570-ND	1.93	1.74	1-103639-9

Fig. 3 — Single Row, .025" (.64mm) Square Straight Post,
without Holddown and without Swage Retention Tail
RoHS Compliant

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	A	.300 (7.62)	A33921-ND	.73	.66	5-103735-1
	B		A33922-ND	.69	.63	5-104363-1
	D		A33923-ND	.59	.53	5-103639-1
3	A	.400 (10.16)	A33924-ND	.83	.75	5-103735-2
	B		A32564-ND	.77	.70	5-104363-2
	D		A33925-ND	.71	.64	5-103639-2
4	A	.500 (12.70)	A33926-ND	.94	.85	5-103735-3
	B		A32565-ND	.93	.84	5-104363-3
	D		A33927-ND	.70	.64	5-103639-3
5	A	.600 (15.24)	A33928-ND	1.04	.94	5-103735-4
	B		A33929-ND	1.02	.92	5-104363-4
	D		A33930-ND	.87	.79	5-103639-4
6	A	.700 (17.78)	A33931-ND	1.15	1.04	5-103735-5
	B		A33932-ND	1.09	.98	5-104363-5
	D		A33933-ND	1.08	.97	5-103639-5
7	A	.800 (20.32)	A33934-ND	1.13	1.03	5-103735-6
	B		A33935-ND	1.20	1.08	5-104363-6
	D		A33936-ND	.87	.79	5-103639-6
8	B	.900 (22.86)	A33938-ND	1.28	1.16	5-104363-7
	D		A33939-ND	1.03	.93	5-103639-7
9	A	1. 000 (25.40)	A33940-ND	1.57	1.42	5-103735-8
	B		A33941-ND	1.39	1.25	5-104363-8
	D		A33942-ND	1.09	.99	5-103639-8
10	A	1.100 (27.94)	A33943-ND	1.80	1.62	5-103735-9
	B		A33944-ND	1.36	1.23	5-104363-9
	D		A33945-ND	1.16	1.05	5-103639-9
11	A	1.200 (30.48)	A33946-ND	2.02	1.83	6-103735-0
	B		A33947-ND	1.56	1.41	6-104363-0
	D		A33948-ND	1.29	1.16	6-103639-0
12	A	1.300 (33.02)	A33949-ND	1.71	1.55	6-103735-1
	B		A33950-ND	1.64	1.48	6-104363-1
	C		A35015-ND	1.40	1.27	6-103639-1
14	A	1.500 (38.10)	A32561-ND	2.42	2.18	6-103735-3
	B		A33951-ND	1.94	1.75	6-104910-3
	D		A33952-ND	1.48	1.33	6-103639-3
15	B	1.600 (40.64)	A33953-ND	2.03	1.83	6-104910-4
	D		A33954-ND	1.54	1.39	6-103639-4
16	B	1.700 (43.18)	A33955-ND	2.03	1.83	6-104910-5
	D		A33956-ND	1.61	1.45	6-103639-5
20	A	2.100 (53.34)	A33958-ND	2.45	2.21	6-103735-9
	B		A33959-ND	2.23	2.01	6-104910-9
	D		A33960-ND	1.91	1.73	6-103639-9

Polarized - High Temperature

Fig. 1 — Single Row, .025" (.64mm)
Square Right Angle Post, with Swage Retention Tail

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	B	.300 (7.62)	A28675-ND	.84	.76	104361-1
3		.400 (10.16)	A28676-ND	1.46	1.32	104361-2
4		.500 (12.70)	A28677-ND	.92	.83	104361-3
5		.600 (15.24)	A28678-ND	1.01	.91	104361-4
6		.700 (17.78)	A28679-ND	1.10	.99	104361-5
7	B	.800 (20.32)	A28680-ND	1.18	1.07	104361-6
8		.900 (22.86)	A28681-ND	1.27	1.15	104361-7
9		1.000 (25.40)	A28682-ND	1.36	1.23	104361-8
10		1.100 (27.94)	A28683-ND	1.79	1.62	104361-9
12		1.300 (33.02)	A28684-ND	1.70	1.54	1-104361-1

Fig. 1 — Single Row, .025" (.64mm)
Square Right Angle Post, with Swage Retention Tail
RoHS Compliant

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	B	.300 (7.62)	A33961-ND	.79	.71	5-104361-1
3		.400 (10.16)	A33962-ND	1.33	1.20	5-104361-2
4		.500 (12.70)	A33963-ND	.86	.78	5-104361-3
5		.600 (15.24)	A33964-ND	.94	.85	5-104361-4
6		.700 (17.78)	A33965-ND	1.03	.93	5-104361-5
7	B	.800 (20.32)	A33966-ND	1.11	1.00	5-104361-6
8		.900 (22.86)	A33967-ND	1.19	1.07	5-104361-7
9		1.000 (25.40)	A33968-ND	1.27	1.15	5-104361-8
10		1.100 (27.94)	A33969-ND	1.68	1.52	5-104361-9
12		1.300 (33.02)	A33970-ND	1.59	1.44	6-104361-1

Fig. 3 — Single Row, .025" (.64mm)
Square Straight Post, with Swage Retention Tail

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	B	.300 (7.62)	A28665-ND	.82	.75	104362-1
3		.400 (10.16)	A28666-ND	.92	.84	104362-2
4		.500 (12.70)	A28667-ND	.95	.86	104362-3
5		.600 (15.24)	A28668-ND	1.12	1.02	104362-4
6		.700 (17.78)	A28669-ND	1.21	1.10	104362-5
7	B	.800 (20.32)	A28670-ND	1.30	1.18	104362-6
8		.900 (22.86)	A28671-ND	1.39	1.26	104362-7
9		1.000 (25.40)	A28672-ND	1.48	1.34	104362-8
10		1.100 (27.94)	A28673-ND	1.62	1.46	104362-9
12		1.300 (33.02)	A28674-ND	1.82	1.64	1-104362-1

Fig. 3 — Single Row, .025" (.64mm)
Square Straight Post, with Swage Retention Tail
RoHS Compliant

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	B	.300 (7.62)	A32567-ND	.78	.71	5-104362-1
5		.600 (15.24)	A33971-ND	1.07	.97	5-104362-4
7		.800 (20.32)	A33972-ND	1.25	1.13	5-104362-6
8		.900 (22.86)	A33973-ND	1.34	1.21	5-104362-7

Tyco Electronics **AMP**
Authorized Distributor

AMPMODU Mod. II and IV Receptacle Assemblies

PERFORMANCE SPECIFICATIONS: • Durability: 200 cycles • Operating Temperature: -65°C ~ 105°C (-65°C ~ 125°C for horizontal mount) • Current Rating: 3 amp maximum for single contact (2 amp maximum per contact when connector is fully energized) • Insulation Resistance: 5000MΩ minimum between adjacent contacts

MATERIAL: • Housing: Black thermoplastic, 94V-0 rated (horizontal mount – high temperature compatible) • Contacts: Phosphor bronze

Contact/Post Plating:
A: 30µ gold on contact area, 50µ to 100µ bright tin-lead on solder area, with entire contact under-plated 50µ nickel
B: 30µ gold on contact area, 100µ to 200µ bright tin-lead on solder area, with entire contact under-plated 50µ nickel

Fig. 1

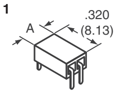

Fig. 2

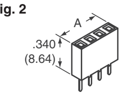

Fig. 3

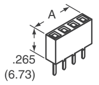

Fig. 4

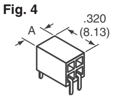

Fig. 5

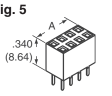

Fig. 6

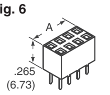

Fig. 7

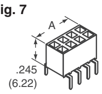

No. of Pos.	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Fig. 1 — Mod. II, Horizontal Mount Short Point-of-Contact, with Standoffs						
2	A	.200 (5.08)	A26405-ND	.50	.46	535676-1
3		.300 (7.62)	A26406-ND	.69	.63	535676-2
5		.500 (12.70)	A26408-ND	.93	.84	535676-4
6		.600 (15.24)	A26409-ND	1.06	.96	535676-5
8	A	.800 (20.32)	A26410-ND	1.40	1.28	535676-7
10		1.000 (25.40)	A26411-ND	1.70	1.54	535676-9
12		1.200 (30.48)	A26412-ND	2.57	2.33	1-535676-1
14		1.400 (35.56)	A26413-ND	2.94	2.67	1-535676-3
16		1.600 (40.64)	A26414-ND	2.49	2.26	1-535676-5
Fig. 1 — Mod. II, Horizontal Mount Short Point-of-Contact, with Standoffs RoHS Compliant						
4	A	.400 (10.16)	A35045-ND	.90	.82	5535676-3
6		.600 (15.24)	A35046-ND	1.22	1.11	5535676-5
8		.800 (20.32)	A35047-ND	1.46	1.32	5535676-7
Fig. 2 — Mod. IV, Vertical Mount, Top Entry, End Stackable with Single Tine Contacts						
3	A	.300 (7.62)	A26415-ND	.82	.75	534237-1
4		.400 (10.16)	A26416-ND	.87	.80	534237-2
5		.500 (12.70)	A26417-ND	.95	.87	534237-3
6		.600 (15.24)	A26418-ND	1.03	.94	534237-4
7		.700 (17.78)	A26419-ND	1.11	1.01	534237-5
8	A	.800 (20.32)	A26420-ND	1.22	1.11	534237-6
10		1.000 (25.40)	A26421-ND	1.46	1.32	534237-8
12		1.200 (30.48)	A26422-ND	1.62	1.47	1-534237-0
13		1.300 (33.02)	A26423-ND	1.67	1.52	1-534237-1
14		1.400 (35.56)	A26424-ND	1.78	1.61	1-534237-2
15	A	1.500 (38.10)	A26425-ND	1.88	1.71	1-534237-3
16		1.600 (40.64)	A26426-ND	1.96	1.78	1-534237-4
18		1.800 (45.72)	A26427-ND	2.20	2.00	1-534237-6
20		2.000 (50.80)	A26428-ND	2.33	2.12	1-534237-8
30		3.000 (76.20)	A26429-ND	3.23	2.93	2-534237-8
Fig. 2 — Mod. IV, Vertical Mount, Top Entry, End Stackable with Single Tine Contacts RoHS Compliant						
3	A	.300 (7.62)	A32904-ND	.87	.80	5-534237-1
4		.400 (10.16)	A32905-ND	.95	.87	5-534237-2
5		.500 (12.70)	A32906-ND	1.03	.94	5-534237-3
6		.600 (15.24)	A32907-ND	1.11	1.01	5-534237-4
7		.700 (17.78)	A32908-ND	1.25	1.13	5-534237-5
8	A	.800 (20.32)	A32909-ND	1.27	1.16	5-534237-6
10		1.000 (25.40)	A32910-ND	1.59	1.44	5-534237-8
12		1.200 (30.48)	A32911-ND	1.72	1.56	6-534237-0
13		1.300 (33.02)	A32912-ND	1.83	1.66	6-534237-1
14		1.400 (35.56)	A32913-ND	1.93	1.76	6-534237-2
15	A	1.500 (38.10)	A32914-ND	2.04	1.85	6-534237-3
16		1.600 (40.64)	A32549-ND	2.17	1.97	6-534237-4
18		1.800 (45.72)	A32915-ND	2.36	2.14	6-534237-6
20		2.000 (50.80)	A32916-ND	2.52	2.28	6-534237-8
30		3.000 (76.20)	A32917-ND	3.47	3.15	7-534237-8
Fig. 3 — Mod. IV, Vertical Mount, Top Entry, End Stackable, Low Profile with Single Tine Contacts						
3	A	.300 (7.62)	A26473-ND	.72	.65	535541-1
5		.500 (12.70)	A26475-ND	.90	.82	535541-3
6		.600 (15.24)	A26476-ND	.98	.89	535541-4
8		.800 (20.32)	A26477-ND	1.11	1.01	535541-6
10		1.000 (24.40)	A26478-ND	1.35	1.23	535541-8
12	A	1.200 (30.48)	A26479-ND	1.56	1.42	1-535541-0
14		1.400 (35.56)	A26480-ND	1.70	1.54	1-535541-2
16		1.600 (40.64)	A26481-ND	1.91	1.73	1-535541-4
18		1.800 (45.72)	A26482-ND	2.09	1.90	1-535541-6
20		2.000 (50.80)	A26483-ND	2.28	2.07	1-535541-8
30		3.000 (76.20)	A26484-ND	3.21	2.91	2-535541-8
Fig. 3 — Mod. IV, Vertical Mount, Top Entry, End Stackable, Low Profile with Single Tine Contacts RoHS Compliant						
3	A	.300 (7.62)	A32918-ND	.80	.72	5-535541-1
5		.500 (12.70)	A32919-ND	.95	.87	5-535541-3
6		.600 (15.24)	A32920-ND	1.06	.96	5-535541-4
8		.800 (20.32)	A32921-ND	1.22	1.11	5-535541-6
10		1.000 (24.40)	A32922-ND	1.48	1.35	5-535541-8
12	A	1.200 (30.48)	A32923-ND	1.70	1.54	6-535541-0
14		1.400 (35.56)	A32550-ND	1.80	1.64	6-535541-2
16		1.600 (40.64)	A32924-ND	2.01	1.83	6-535541-4
18		1.800 (45.72)	A32925-ND	2.31	2.09	6-535541-6
20		2.000 (50.80)	A32926-ND	2.46	2.24	6-535541-8
30		3.000 (76.20)	A32927-ND	3.45	3.12	7-535541-8
Double Row						
Fig. 4 — Mod. II, Horizontal Mount, End Stackable, Short Point-of-Contact with Standoffs						
4	A	.200 (5.08)	A26430-ND	.66	.60	6-535512-1
6		.300 (7.62)	A26431-ND	.95	.87	6-535512-2
8		.400 (10.16)	A26432-ND	1.14	1.04	6-535512-3
12		.600 (15.24)	A26434-ND	1.70	1.54	535512-1
16	A	.800 (20.32)	A26436-ND	2.17	1.97	1-535512-8
18		.900 (22.86)	A26437-ND	2.46	2.24	1-535512-6
22		1.100 (27.94)	A26439-ND	2.92	2.64	1-535512-9
24		1.200 (30.48)	A26440-ND	3.10	2.81	535512-3
26	A	1.300 (33.02)	A26441-ND	3.39	3.08	2-535512-0
28		1.400 (35.56)	A26442-ND	3.60	3.27	2-535512-1
32		1.600 (40.64)	A26444-ND	4.11	3.72	2-535512-3
34		1.700 (43.18)	A26445-ND	4.35	3.94	535512-4
50		2.500 (63.50)	A26448-ND	9.86	8.93	535512-7
60	A	3.000 (76.20)	A26449-ND	11.87	10.76	3-535512-0
70		3.500 (88.90)	A26450-ND	13.73	12.44	1-535512-0
Fig. 4 — Mod. II, Horizontal Mount, End Stackable, Short Point-of-Contact with Standoffs RoHS Compliant						
6	A	.300 (7.62)	A35048-ND	1.03	.94	6-5535512-2
8		.400 (10.16)	A35049-ND	1.25	1.13	6-5535512-3
10		.500 (12.70)	A35050-ND	1.33	1.20	6-5535512-4
12		.600 (15.24)	A32928-ND	1.83	1.66	5535512-1
14		.700 (17.78)	A35044-ND	2.09	1.90	1-5535512-7
16	A	.800 (20.32)	A97410-ND	2.36	2.14	1-5535512-8
18		.900 (22.86)	A97409-ND	2.44	2.21	1-5535512-6
20		1.000 (25.40)	A32929-ND	2.54	2.31	5535512-2
24		1.200 (30.48)	A32930-ND	3.29	2.98	5535512-3
26		1.300 (33.02)	A34591-ND	3.68	3.34	2-5535512-0
32	A	1.600 (40.64)	A32931-ND	4.21	3.82	2-5535512-3
70		3.500 (88.90)	A34585-ND	14.89	13.49	1-5535512-0
Fig. 5 — Mod. IV, Vertical Mount, Top Entry, End Stackable, .100 x .100 (2.54 x 2.54mm) Mounting Pattern						
2	B	.100 (2.54)	A26451-ND	.72	.65	534206-1
4		.200 (5.08)	A26452-ND	.90	.82	534206-2
6		.300 (7.62)	A26453-ND	1.06	.96	534206-3
8		.400 (10.16)	A26454-ND	1.27	1.16	534206-4
10		.500 (12.70)	A26455-ND	1.51	1.37	534206-5
12	B	.600 (15.24)	A26456-ND	1.67	1.52	534206-6
14		.700 (17.78)	A26457-ND	1.88	1.71	534206-7
16		.800 (20.32)	A26458-ND	2.09	1.90	534206-8
18		.900 (22.86)	A26459-ND	2.28	2.07	534206-9
20		1.000 (25.40)	A26460-ND	2.49	2.26	1-534206-0
24	B	1.200 (30.48)	A26461-ND	2.86	2.60	1-534206-2
26		1.300 (33.02)	A26462-ND	3.10	2.81	1-534206-3
28		1.400 (35.56)	A26463-ND	3.29	2.98	1-5342 06-4
30		1.500 (38.10)	A26464-ND	3.50	3.17	1-534206-5
32		1.600 (40.64)	A26465-ND	3.68	3.34	1-534206-6
34	B	1.700 (43.18)	A26466-ND	3.87	3.51	1-534206-7
36		1.800 (45.72)	A26467-ND	4.05	3.68	1-534206-8
40		2.000 (50.80)	A26468-ND	4.48	4.06	2-534206-0
44		2.200 (55.88)	A26469-ND	4.88	4.42	2-534206-2
50		2.500 (63.50)	A26470-ND	5.43	4.92	2-534206-5
60	B	3.000 (76.20)	A26471-ND	6.47	5.86	3-534206-0
64		3.200 (81.28)	A26472-ND	6.89	6.24	3-534206-2
Fig. 5 — Mod. IV, Vertical Mount, Top Entry, End Stackable, .100 x .100 (2.54 x 2.54mm) Mounting Pattern RoHS Compliant						
2	B	.100 (2.54)	A32932-ND	.80	.72	5-534206-1
4		.200 (5.08)	A32933-ND	1.01	.92	5-534206-2
6		.300 (7.62)	A32934-ND	1.17	1.06	5-534206-3
8		.400 (10.16)	A32935-ND	1.40	1.28	5-534206-4
10		.500 (12.70)	A32936-ND	1.64	1.49	5-534206-5
12	B	.600 (15.24)	A32937-ND	1.80	1.64	5-534206-6
14		.700 (17.78)	A32938-ND	1.99	1.80	5-534206-7
16		.800 (20.32)	A32939-ND	2.25	2.04	5-534206-8
18		.900 (22.86)	A32940-ND	2.46	2.24	5-534206-9
20		1.000 (25.40)	A32941-ND	2.65	2.40	6-534206-0
24	B	1.200 (30.48)	A32942-ND	3.10	2.81	6-534206-2
26		1.300 (33.02)	A32943-ND	3.29	2.98	6-534206-3
28		1.400 (35.56)	A32944-ND	3.55	3.22	6-534206-4
30		1.500 (38.10)	A32945-ND	3.79	3.44	6-534206-5
32		1.600 (40.64)	A32946-ND	3.95	3.58	6-534206-6
34	B	1.700 (43.18)	A32947-ND	4.16	3.77	6-534206-7
36		1.800 (45.72)	A32948-ND	4.40	3.99	6-534206-8
40		2.000 (50.80)	A32949-ND	4.85	4.40	7-534206-0
44		2.200 (55.88)	A32950-ND	5.30	4.80	7-534206-2
50		2.500 (63.50)	A32951-ND	5.86	5.31	7-534206-5
60	B	3.000 (76.20)	A32952-ND	6.97	6.32	8-534206-0
64		3.200 (81.28)	A32953-ND	7.18	6.51	8-534206-2
Fig. 6 — Mod. IV, Top Entry, End Stackable, Low Profile, .100 x .100 (2.54 x 2.54mm) Mounting Pattern						
8	B	.400 (10.16)	A26485-ND	1.17	1.06	534998-4
10		.500 (12.70)	A26486-ND	1.46	1.32	534998-5
12		.600 (15.24)	A26487-ND	1.64	1.49	534998-6
14		.700 (17.78)	A26488-ND	1.80	1.64	534998-7
16		.800 (20.32)	A26489-ND	2.04	1.85	534998-8
20	B	1.000 (25.40)	A26490-ND	2.44	2.21	1-534998-0
24		1.200 (30.48)	A26491-ND	2.78	2.52	1-534998-2
26		1.300 (33.02)	A26492-ND	3.02	2.74	1-534998-3
28		1.400 (35.56)	A26493-ND	3.21	2.91	1-534998-4
30		1.500 (38.10)	A26494-ND	3.39	3.08	1-534998-5
32	B	1.600 (40.64)	A26495-ND	3.60	3.27	1-534998-6
34		1.700 (43.18)	A26496-ND	3.79	3.44	1-534998-7
36		1.800 (45.72)	A26497-ND	3.98	3.60	1-534998-8
40		2.000 (50.80)	A26498-ND	4.43	4.01	2-534998-0
50		2.500 (63.50)	A26499-ND	5.38	4.88	2-534998-5
60		3.000 (76.20)	A26500-ND	6.39	5.79	3-534998-0
Fig. 6 — Mod. IV, Top Entry, End Stackable, Low Profile, .100 x .100 (2.54 x 2.54mm) Mounting Pattern RoHS Compliant						
8	B	.400 (10.16)	A32954-ND	1.27	1.16	5-534998-4
10		.500 (12.70)	A32955-ND	1.59	1.44	5-534998-5
12		.600 (15.24)	A32956-ND	1.78	1.61	5-534998-6
14		.700 (17.78)	A32957-ND	1.93	1.76	5-534998-7
16		.800 (20.32)	A32958-ND	2.20	2.00	5-534998-8
20	B	1.000 (25.40)	A32959-ND	2.62	2.38	6-534998-0
24		1.200 (30.48)	A32960-ND	3.02	2.74	6-534998-2
26		1.300 (33.02)	A32961-ND	3.21	2.91	6-534998-3
28		1.400 (35.56)	A32962-ND	3.45	3.12	6-534998-4
30		1.500 (38.10)	A32963-ND	3.71	3.36	6-534998-5
32	B	1.600 (40.64)	A32964-ND	3.90	3.53	6-534998-6
34		1.700 (43.18)	A32965-ND	4.11	3.72	6-534998-7
36		1.800 (45.72)	A32966-ND	4.32	3.92	6-534998-8
40		2.000 (50.80)	A32967-ND	4.77	4.32	7-534998-0
50		2.500 (63.50)	A32968-ND	5.83	5.28	7-534998-5
60		3.000 (76.20)	A32969-ND	6.89	6.24	8-534998-0
Fig. 7 — Mod. IV, Bottom Entry, End Stackable, Low Profile, .100 x .300 (2.54 x 7.62mm) Mounting Pattern						
14	B	.700 (17.78)	A26501-ND	1.96	1.78	534267-1
20		1.000 (25.40)	A26502-ND	2.57	2.33	534267-2
30		1.500 (38.10)	A26503-ND	3.55	3.22	1-534267-2
36		1.800 (45.72)	A26504-ND	4.13	3.75	1-534267-5
40		2.000 (50.80)	A26505-ND	4.56	4.13	534267-7
48	B	2.400 (60.96)	A26506-ND	5.35	4.85	1-534267-1
60		3.000 (76.20)	A26507-ND	6.52	5.91	534267-8
Fig. 7 — Mod. IV, Bottom Entry, End Stackable, Low Profile, .100 x .300 (2.54 x 7.62mm) Mounting Pattern RoHS Compliant						
14	B	.700 (17.78)	A32970-ND	2.12	1.92	5-534267-1
20		1.000 (25.40)	A32971-ND	2.78	2.52	5-534267-2
30		1.500 (38.10)	A32972-ND	3.82	3.46	6-534267-2
36		1.800 (45.72)	A32973-ND	4.48	4.06	6-534267-5
40		2.000 (50.80)	A32974-ND	4.93	4.47	5-534267-7
60		3.000 (76.20)	A32976-ND	7.02	6.36	5-534267-8

AMP Interconnection System Connectors

RITS Series

Specifications: • **Voltage Rating:** 32VDC • **Current Rating:** 0.5A ~ 3A • **Temperature Rating:** -30°C ~ 75°C

Digi-Reel®

Fig. 1

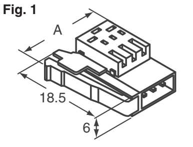

Fig. 2

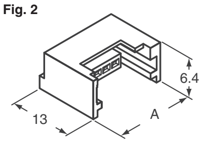

Fig. 3

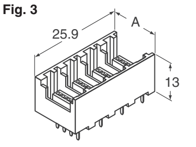

Fig. 4

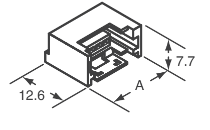

Fig. 5

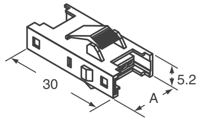

Fig. 6

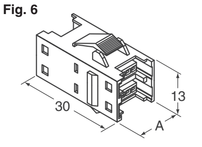

Fig.	No. of Pos.	Dim. – mm A	Body Color	Digi-Key Part No.	Price Each 1	Price Each 100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	AMP Part No.
Plug, IDC (Insulation Displacement Contact) — RoHS Compliant									
1	3	14.1	Yellow	A29146-ND	1.76	1.43	—	—	1473562-3
	3	14.1	Blue	A29148-ND	1.60	1.30	—	—	2-1473562-3
	3	14.1	Green	A29158-ND	1.83	1.48	—	—	4-1473562-3
	4	16.1	Yellow	A29149-ND	2.12	1.72	—	—	1473562-4
	4	16.1	Blue	A29151-ND	2.12	1.72	—	—	2-1473562-4
	4	16.1	Green	A29159-ND	2.27	1.84	—	—	4-1473562-4
	4	16.1	Orange	A29163-ND	2.27	1.84	—	—	3-1473562-4
	4	16.1	Red	A29150-ND	2.12	1.72	—	—	1-1473562-4
	6	20.1	Green	A29160-ND	2.35	1.91	—	—	4-1473562-6
	8	24.1	Yellow	A29155-ND	2.69	2.18	—	—	1473562-8
Header Vertical Thru Hole									
2	3	13.8	—	A29166-ND◆	1.92	1.38	—	—	1473565-3
	4	15.8	—	A29167-ND◆	2.67	1.92	—	—	1473565-4
	5	19.8	—	A29168-ND	5.22	3.75	—	—	1473565-5
	6	19.8	—	A29169-ND	3.36	2.41	—	—	1473565-6
	8	23.8	—	A29171-ND	2.94	2.11	—	—	1473565-8
Header Vertical 4Row — RoHS Compliant									
3	3	13.8	—	A29173-ND	4.50	3.23	—	—	1473567-3
	4	15.8	—	A29172-ND	6.12	4.39	—	—	1473567-4

Fig.	No. of Pos.	Dim. – mm A	Body Color	Digi-Key Part No.	Price Each 1	Price Each 100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	AMP Part No.
Header Horizontal SMT (Surface Mount) — RoHS Compliant									
4	3	13.8	—	A29174CT-ND	5.67	3.41	250	688.50	1565994-3
	3	13.8	—	A29176CT-ND	5.67	3.41	250	688.50	1-1565994-3
	4	15.8	—	A29175CT-ND	6.58	3.95	200	639.20	1565994-4
	4	15.8	—	A29177CT-ND	6.58	3.95	200	639.20	1-1565994-4
Junction Box Panel Mount — RoHS Compliant									
5	3	13.8	—	A29178-ND	6.39	4.10	—	—	1473571-3
	4	15.8	—	A29179-ND	3.07	1.98	—	—	1473571-4
	6	19.8	—	A29180-ND	9.09	5.84	—	—	1473571-6
	8	23.8	—	A29181-ND	4.90	3.15	—	—	1473571-8
6	3	13.8	—	A29186-ND	3.26	2.10	—	—	1473574-3
	4	15.8	—	A29187-ND	7.63	4.90	—	—	1473574-4
Junction Box Free Hanging — RoHS Compliant									
5	3	13.8	—	A29182-ND	2.31	1.48	—	—	5-1473571-3
	4	15.8	—	A29183-ND	6.60	4.24	—	—	5-1473571-4
	6	19.8	—	A29184-ND	4.32	2.78	—	—	5-1473571-6
	8	23.8	—	A29185-ND	8.45	5.43	—	—	5-1473571-8
6	3	13.8	—	A29188-ND	7.05	4.53	—	—	5-1473574-3
	4	15.8	—	A29189-ND	4.88	3.13	—	—	5-1473574-4

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND.

Dynamic Series D-2000

Specifications: • **Material:** Black GF Polyester • **Flammability:** UL 94V-0 • **Voltage Rating:** 250VAC • **Current Rating:** 5A • **Temperature Rating:** -55°C ~ 105°C

Fig. 1

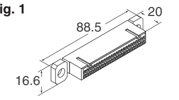

Fig. 2

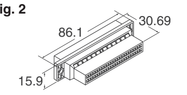

Fig. 3

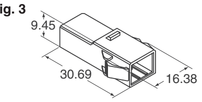

Fig. 4

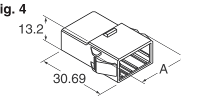

Fig. 5

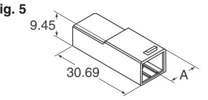

Fig. 6

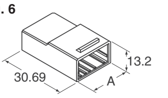

Fig. 7

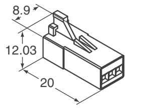

Fig. 8

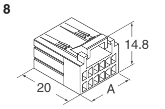

Fig. 9

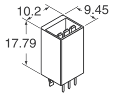

Fig. 10

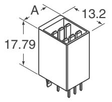

Fig. 11

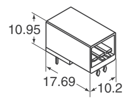

Fig. 12

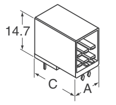

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
D2100 — RoHS Compliant						
1	50	Receptacle Housing Panel Mount	A29815-ND	10.36	6.65	1318577-1
2	50	Tab Housing Panel Mount	A29816-ND A29817-ND	3.66 8.00	2.35 5.14	1318578-1 1318578-2

Fig.	No. of Pos.	Dim. – mm A	Dim. – mm C	Keying	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
D2100 Tab Housing Panel Mount — RoHS Compliant									
3	3	—	—	X	—	A29793-ND	.50	.33	1-1318116-3
	3	—	—	Y	—	A29794-ND	.42	.28	2-1318116-3
4	6	16.38	—	X	—	A29777-ND	1.80	1.16	1-1318114-3
	6	16.38	—	Y	—	A29778-ND	1.59	1.02	2-1318114-3
	8	18.88	—	X	—	A29779-ND	2.31	1.48	1-1318114-4
	8	18.88	—	Y	—	A29780-ND	2.15	1.38	2-1318114-4
	12	23.88	—	X	—	A29781-ND	2.23	1.43	1-1318114-6
	12	23.88	—	Y	—	A29782-ND	2.23	1.43	2-1318114-6
	20	33.88	—	X	—	A29783-ND	8.16	5.24	1-1318114-9
	20	33.88	—	Y	—	A29784-ND	3.79	2.44	2-1318114-9
D2100 Tab Housing Free Hanging — RoHS Compliant									
5	3	10.2	—	X	—	A29795-ND	.50	.33	1-1318117-3
	3	10.2	—	Y	—	A29796-ND	.50	.33	2-1318117-3
6	6	10.2	—	X	—	A29785-ND	1.01	.65	1-1318115-3
	6	10.2	—	Y	—	A29786-ND	.95	.62	2-1318115-3
	8	12.7	—	X	—	A29787-ND	3.07	1.98	1-1318115-4
	8	12.7	—	Y	—	A29788-ND	.77	.50	2-1318115-4
	12	17.7	—	X	—	A29789-ND	.74	.48	1-1318115-6
	12	17.7	—	Y	—	A29790-ND	.74	.48	2-1318115-6
	20	27.7	—	X	—	A29791-ND	.87	.57	1-1318115-9
	20	27.7	—	Y	—	A29792-ND	.72	.46	2-1318115-9
D2100 Receptacle Housing — RoHS Compliant									
7	3	—	—	X	—	A29805-ND	.66	.43	1-1318120-3
	3	—	—	Y	—	A29806-ND	1.38	.89	2-1318120-3
8	6	8.9	—	X	—	A29801-ND	.82	.53	1-1318119-3
	8	11.4	—	X	—	A29803-ND	1.11	.72	1-1318119-4
	8	11.4	—	Y	—	A29804-ND	1.88	1.21	2-1318119-4
	12	16.4	—	X	—	A29797-ND	1.88	1.21	1-1318118-6
	12	16.4	—	Y	—	A29798-ND	2.41	1.55	2-1318118-6
	20	26.4	—	X	—	A29799-ND	1.93	1.25	1-1318118-9
	20	26.4	—	Y	—	A29800-ND	1.01	.65	2-1318118-9

Fig.	No. of Pos.	Dim. – mm A	Dim. – mm C	Keying	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
D2100 Header Straight — RoHS Compliant									
9	3	—	—	X	15µ" Gold	A29807-ND	4.74	3.40	1318123-1
10	6	10.2	—	X	15µ" Gold	A29808-ND	7.41	5.32	1318124-1
	8	12.7	—	X	15µ" Gold	A29809-ND	5.76	4.13	1318125-1
	8	12.7	—	Y	15µ" Gold	A29810-ND	4.41	3.17	1318125-2
	12	17.7	—	X	15µ" Gold	A29811-ND	6.03	4.33	1318126-1
	12	17.7	—	Y	15µ" Gold	A29812-ND	7.62	5.47	1318126-2
	20	27.7	—	X	15µ" Gold	A29813-ND	17.52	12.56	1318127-1
	20	27.7	—	Y	15µ" Gold	A29814-ND	13.56	9.72	1318127-2
D2100 Header Right Angle									
11	3	—	—	X	15µ" Gold	A29855-ND◆	5.49	3.94	1376135-1
	3	—	—	Y	15µ" Gold	A29863-ND	3.63	2.61	1376135-2
12	6	10.2	20.19	X	15µ" Gold	A29856-ND◆	9.99	7.16	1376136-1
	6	10.2	20.19	Y	15µ" Gold	A29857-ND◆	5.79	4.15	1376136-2
	8	12.7	20.19	X	15µ" Gold	A29822-ND◆	9.15	6.56	1376009-1
	12	17.7	20.19	X	15µ" Gold	A29824-ND◆	10.59	7.59	1376020-1
	12	17.7	20.19	Y	15µ" Gold	A29825-ND◆	9.78	7.01	1376020-2
	20	27.7	20.19	X	15µ" Gold	A29858-ND	5.46	3.92	1376137-1
	20	27.7	20.19	Y	15µ" Gold	A29859-ND	19.86	14.24	1376137-2

Wire Size AWG	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 100	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
2000 Series Receptacle Contacts — RoHS Compliant							
18-22	15µ" Gold	A29318-ND A29318TR-ND	.40 —	.26 —	— 10,000	— 283.50/M	1318107-1 1318105-1
24-28	15µ" Gold	A29319-ND A29319TR-ND	.48 —	.31 —	— 10,000	— 189.00/M	1318108-1 1318106-1
2000 Series Tab Contacts — RoHS Compliant							
18-22	15µ" Gold	A29322-ND A29322TR-ND	.32 —	.21 —	— 9,000	— 216.00/M	1318111-1 1318109-1
24-28	15µ" Gold	A29323-ND A29323TR-ND	.42 —	.28 —	— 9,000	— 229.50/M	1318112-1 1318110-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
D2000 Crimp Tool, 24-28 AWG	A30050-ND	551.57	91567-1
D2000 Crimp Tool, 18-22 AWG	A30051-ND	551.57	91595-1
D2000 Extraction Tool	A97909-ND ***NEW!***	87.21	1276716-1

◆ ***RoHS Compliant***

(Continued)

Dynamic Series D-3000

Specifications: • **Material:** Black GF Polyester (Orange in part) • **Flammability:** UL 94V-0 • **Voltage Rating:** 250V AC/DC (for 3.81mm pitch connector), 600V AC/DC (for 5.08mm pitch connector) • **Temperature Rating:** -55°C ~ 105°C

Fig. 1

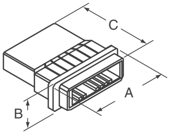

Fig. 2

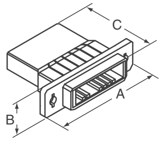

Fig. 3

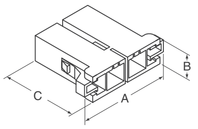

Fig. 4

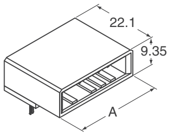

Fig. 5

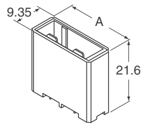

Fig. 6

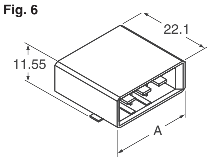

Fig. 7

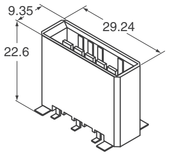

Fig. 8

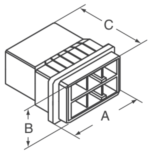

Fig. 9

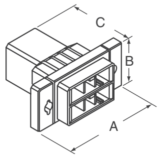

Fig. 10

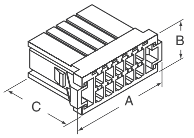

Fig. 11

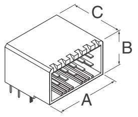

Fig. 12

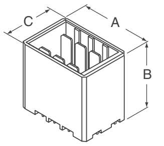

Fig. 13

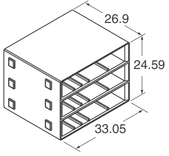

Fig. 14

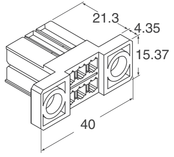

Fig. 15

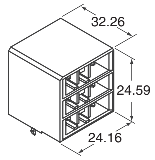

Fig. 16

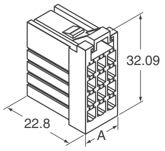

Fig. 17

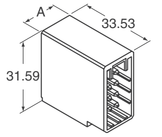

Fig. 18

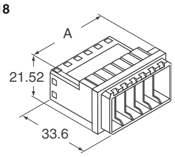

Fig. 19

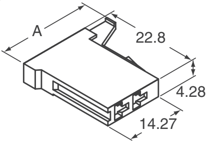

Fig. 20

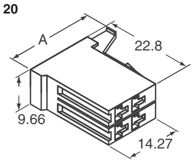

Fig. 21

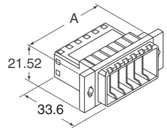

Fig.	No. of Pos.	Dimensions – mm			Keying	Body Plating	Digi-Key Part No.	Price Each		AMP Part No.
		A	B	C				1	100	
D3100 Tab Housing Single Keyed — RoHS Compliant										
1	3	21.62	12.7	33.6	X	—	A29848-ND	.66	.43	1-177648-3
	3	21.62	12.7	33.6	Y	—	A29849-ND	2.12	1.36	2-177648-3
	5	29.24	12.7	33.6	X	—	A29850-ND	1.06	.68	1-177648-5
	8	40.67	12.7	33.6	X	—	A29851-ND	1.22	.79	1-177648-7
	10	48.29	12.7	33.6	X	—	A29852-ND	1.09	.70	1-177648-8
D3100 Tab Housing Single Row Panel Mount Keyed — RoHS Compliant										
2	3	40.00	12.7	33.6	X	—	A29527-ND	1.46	.94	1-178802-3
	3	40.00	12.7	33.6	Y	—	A29528-ND	1.46	.94	2-178802-3
	5	47.00	12.7	33.6	X	—	A29529-ND	1.70	1.09	1-178802-5
	8	59.00	12.7	33.6	X	—	A29530-ND	2.17	1.40	1-178802-7
	10	67.00	12.7	33.6	X	—	A29531-ND	2.73	1.76	1-178802-8
	10	67.00	12.7	33.6	Y	—	A29532-ND	3.66	2.35	2-178802-8
D3100 Receptacle Housing Single Row Keyed — RoHS Compliant										
3	3	26.76	7.15	22.8	X	—	A29421-ND	1.17	.75	1-178288-3
	3	26.76	7.15	22.8	Y	—	A29422-ND	1.17	.75	2-178288-3
	4	30.57	7.15	22.8	X	—	A29423-ND	1.86	1.19	1-178288-4
	4	30.57	7.15	22.8	Y	—	A29424-ND	.87	.57	2-178288-4
	5	34.38	7.15	22.8	X	—	A29425-ND	1.93	1.25	1-178288-5
	6	38.19	7.15	22.8	X	—	A29426-ND	1.67	1.08	1-178288-6
	6	38.19	7.15	22.8	Y	—	A29427-ND	.64	.41	2-178288-6
	8	45.81	7.15	22.8	X	—	A29428-ND	1.72	1.11	1-178288-7
	10	53.43	7.15	22.8	X	—	A29429-ND	2.68	1.72	1-178288-8
	10	53.43	7.15	22.8	Y	—	A29430-ND	2.49	1.60	2-178288-8
D3100 Header Right Angle Single Row Keyed										
4	3	21.62	—	—	X	15μ" Gold	A29437-ND◆	4.92	3.53	1-178293-2
	3	21.62	—	—	Y	15μ" Gold	A29438-ND◆	2.16	1.55	2-178293-2
	3	21.62	—	—	X	30μ" Gold	A29439-ND◆	2.43	1.75	1-178293-3
	3	21.62	—	—	Y	30μ" Gold	A29440-ND◆	2.43	1.75	2-178293-3
	3	21.62	—	—	X	Tin	A29441-ND◆	4.26	3.06	1-178293-5
	3	21.62	—	—	Y	Tin	A29442-ND◆	1.80	1.29	2-178293-5
	4	25.43	—	—	X	15μ" Gold	A29443-ND◆	2.43	1.75	1-178294-2
	4	25.43	—	—	Y	15μ" Gold	A29444-ND◆	2.43	1.75	2-178294-2
	4	25.43	—	—	X	30μ" Gold	A29445-ND◆	2.73	1.96	1-178294-3
	4	25.43	—	—	Y	30μ" Gold	A29446-ND◆	2.40	1.72	2-178294-3
	4	25.43	—	—	X	Tin	A29447-ND◆	2.01	1.45	1-178294-5
	4	25.43	—	—	Y	Tin	A29448-ND◆	1.62	1.17	2-178294-5
	5	29.24	—	—	X	15μ" Gold	A29449-ND◆	2.64	1.90	1-178295-2
	5	29.24	—	—	X	30μ" Gold	A29450-ND◆	3.09	2.22	1-178295-3
	5	29.24	—	—	X	Tin	A29451-ND	5.58	4.00	1-178295-5
	6	33.05	—	—	X	15μ" Gold	A29452-ND◆	5.34	3.83	1-178296-2
	6	33.05	—	—	Y	15μ" Gold	A29453-ND	4.53	3.25	2-178296-2
	6	33.05	—	—	X	30μ" Gold	A29454-ND◆	5.91	4.24	1-178296-3
	6	33.05	—	—	X	Tin	A29456-ND◆	4.62	3.32	1-178296-5
	6	33.05	—	—	Y	Tin	A29457-ND◆	3.90	2.80	2-178296-5
	8	40.67	—	—	X	15μ" Gold	A29458-ND◆	3.06	2.20	1-178297-2
	8	40.67	—	—	X	30μ" Gold	A29459-ND◆	3.66	2.63	1-178297-3
	8	40.67	—	—	X	Tin	A29460-ND◆	6.78	4.86	1-178297-5
	10	48.29	—	—	X	15μ" Gold	A29461-ND◆	3.63	2.61	1-178298-2
	10	48.29	—	—	X	30μ" Gold	A29462-ND◆	8.19	5.87	1-178298-3
	10	48.29	—	—	X	Tin	A29463-ND◆	2.58	1.85	1-178298-5
	10	48.29	—	—	Y	15μ" Gold	A29464-ND	3.63	2.61	2-178298-2
	10	48.29	—	—	Y	30μ" Gold	A29465-ND	3.69	2.65	2-178298-3

Fig.	No. of Pos.	Dimensions – mm			Keying	Body Plating	Digi-Key Part No.	Price Each		AMP Part No.
		A	B	C				1	100	
D3100 Header Straight Single Row Keyed										
5	3	21.62	—	—	X	15μ" Gold	A29482-ND◆	4.56	3.27	1-178313-2
	3	21.62	—	—	X	30μ" Gold	A29483-ND	5.16	3.70	1-178313-3
	3	21.62	—	—	X	Tin	A29484-ND◆	2.55	1.83	1-178313-5
	3	21.62	—	—	Y	15μ" Gold	A29485-ND	2.61	1.88	2-178313-2
	3	21.62	—	—	Y	Tin	A29487-ND◆	1.80	1.29	2-178313-5
	4	25.43	—	—	X	15μ" Gold	A29488-ND◆	2.37	1.70	1-178314-2
	4	25.43	—	—	X	30μ" Gold	A29489-ND	2.52	1.81	1-178314-3
	4	25.43	—	—	X	Tin	A29490-ND	1.77	1.27	1-178314-5
	4	25.43	—	—	Y	15μ" Gold	A29491-ND	1.77	1.27	2-178314-2
	4	25.43	—	—	Y	30μ" Gold	A29492-ND◆	2.13	1.53	2-178314-3
	4	25.43	—	—	Y	Tin	A29493-ND◆	5.25	3.77	2-178314-5
	5	29.24	—	—	X	15μ" Gold	A29494-ND◆	1.98	1.42	1-178315-2
	5	29.24	—	—	X	30μ" Gold	A29495-ND	5.34	3.83	1-178315-3
	5	29.24	—	—	X	Tin	A29496-ND◆	4.98	3.57	1-178315-5
	6	33.05	—	—	X	15μ" Gold	A29497-ND	7.02	5.04	1-178316-2
	6	33.05	—	—	X	30μ" Gold	A29498-ND◆	5.22	3.75	1-178316-3
	6	33.05	—	—	X	Tin	A29499-ND◆	5.70	4.09	1-178316-5
	6	33.05	—	—	Y	15μ" Gold	A29500-ND◆	4.83	3.47	2-178316-2
	6	33.05	—	—	Y	30μ" Gold	A29501-ND◆	4.50	3.23	2-178316-3
	6	33.05	—	—	Y	Tin	A29502-ND◆	3.69	2.65	2-178316-5
	8	40.67	—	—	X	15μ" Gold	A29503-ND	2.94	2.11	1-178317-2
	8	40.67	—	—	X	30μ" Gold	A29504-ND	7.53	5.40	1-178317-3
	8	40.67	—	—	X	Tin	A29505-ND	4.83	3.47	1-178317-5
	10	48.29	—	—	X	15μ" Gold	A29506-ND	5.58	4.00	1-178318-2
	10	48.29	—	—	X	30μ" Gold	A29507-ND	5.82	4.18	1-178318-3
	10	48.29	—	—	X	Tin	A29508-ND◆	4.56	3.27	1-178318-5
	10	48.29	—	—	Y	15μ" Gold	A29509-ND◆	5.58	4.00	2-178318-2
	10	48.29	—	—	Y	Tin	A29511-ND	4.56	3.27	2-178318-5
D3100 Header Right Angle Single Row — RoHS Compliant										
6	5	29.24	—	—	—	15μ" Gold	A29853-ND	5.01	3.60	1-177662-2
	8	40.67	—	—	—	30μ" Gold	A29544-ND	25.71	18.43	1-179188-3
D3100 Header Single Row Straight — RoHS Compliant										
7	5	—	—	—	—	15μ" Gold	A29352-ND	7.83	5.62	1-177665-2
D3100 Tab Housing Dual Row — RoHS Compliant										
8	6	25.57	17.78	33.6	—	—	A29538-ND	2.76	1.77	178964-3
	10	33.19	17.78	33.6	—	—	A29539-ND	2.73	1.76	178964-5
	12	37.00	17.78	33.6	—	—	A29540-ND	1.17	.75	178964-6
	16	44.62	17.78	33.6	—	—	A29541-ND	4.19	2.69	178964-7
	20	52.24	17.78	33.6	—	—	A29542-ND	3.90	2.50	178964-8
D3100 Tab Housing Dual Row Panel Mount — RoHS Compliant										
9	6	40.00	17.78	33.6	—	—	A29533-ND	2.39	1.53	178803-3
	10	47.00	17.78	33.6	—	—	A29534-ND	2.73	1.76	178803-5
	12	51.00	17.78	33.6	—	—	A29535-ND	1.25	.80	178803-6
	16	59.00	17.78	33.6	—	—	A29536-ND	4.19	2.69	178803-7
	20	67.00	17.78	33.6	—	—	A29537-ND	3.90	2.50	178803-8
D3100 Receptacle Housing Dual Row — RoHS Compliant										
10	6	24.36	12.23	22.8	—	—	A29431-ND	1.62	1.04	178289-3
	8	28.17	12.23	22.8	—	—	A29432-ND	1.93	1.25	178289-4
	10	31.98	12.23	22.8	—	—	A29433-ND	1.88	1.21	178289-5
	12	35.79	12.23	22.8	—	—	A29434-ND	2.44	1.57	178289-6

◆ *RoHS Compliant*

(Continued)

Interconnection System Connectors

Dynamic Series D-3000 *(Cont.)*

Fig.	No. of Pos.	Dimensions – mm			Keying	Body Plating	Digi-Key Part No.	Price Each		AMP Part No.
		A	B	C				1	100	
10	16	42.71	12.23	22.8	—	—	A29435-ND	2.23	1.43	178289-7
	20	51.03	12.23	22.8	—	—	A29436-ND	2.41	1.55	178289-8
D3100 Header Right Angle Dual Row										
11	6	21.62	14.43	25.91	—	15µ" Gold	A29467-ND	3.03	2.18	178303-2
	6	21.62	14.43	25.91	—	30µ" Gold	A29468-ND◆	7.32	5.25	178303-3
	6	21.62	14.43	25.91	—	Tin	A29469-ND◆	5.76	4.13	178303-5
	10	29.24	14.43	25.91	—	15µ" Gold	A29470-ND◆	7.50	5.38	178305-2
	10	29.24	14.43	25.91	—	30µ" Gold	A29471-ND◆	8.10	5.81	178305-3
	10	29.24	14.43	25.91	—	Tin	A29472-ND◆	3.36	2.41	178305-5
	12	33.05	14.43	25.91	—	15µ" Gold	A29473-ND◆	3.96	2.84	178306-2
	12	33.05	14.43	25.91	—	30µ" Gold	A29474-ND	5.76	4.13	178306-3
	12	33.05	14.43	25.91	—	Tin	A29475-ND◆	2.73	1.96	178306-5
	16	40.67	14.43	25.91	—	15µ" Gold	A29476-ND◆	10.08	7.23	178307-2
	16	40.67	14.43	25.91	—	Tin	A29478-ND	4.35	3.12	178307-5
	20	48.29	14.43	25.91	—	15µ" Gold	A29479-ND◆	5.91	4.24	178308-2
	20	48.29	14.43	25.91	—	30µ" Gold	A29480-ND	5.85	4.20	178308-3
	20	48.29	14.43	25.91	—	Tin	A29481-ND	3.00	2.15	178308-5
D3100 Header Straight Dual Row										
12	6	21.62	21.6	14.43	—	30µ" Gold	A29513-ND◆	5.76	4.13	178323-3
	6	21.62	21.6	14.43	—	Tin	A29514-ND◆	5.04	3.62	178323-5
	10	29.24	21.6	14.43	—	15µ" Gold	A29515-ND	8.55	6.13	178325-2
	10	29.24	21.6	14.43	—	30µ" Gold	A29516-ND◆	7.89	5.66	178325-3
	10	29.24	21.6	14.43	—	Tin	A29517-ND	7.41	5.32	178325-5
	12	33.05	21.6	14.43	—	15µ" Gold	A29518-ND◆	5.19	3.72	178326-2
	12	33.05	21.6	14.43	—	30µ" Gold	A29519-ND◆	4.89	3.51	178326-3
	12	33.05	21.6	14.43	—	Tin	A29520-ND◆	2.31	1.66	178326-5
	16	40.67	21.6	14.43	—	15µ" Gold	A29521-ND◆	4.74	3.40	178327-2
	16	40.67	21.6	14.43	—	30µ" Gold	A29522-ND	11.28	8.09	178327-3
	16	40.67	21.6	14.43	—	Tin	A29523-ND	7.41	5.32	178327-5
	20	48.29	21.6	14.43	—	15µ" Gold	A29524-ND	6.18	4.43	178328-2
	20	48.29	21.6	14.43	—	30µ" Gold	A29525-ND◆	6.51	4.67	178328-3
	20	48.29	21.6	14.43	—	Tin	A29526-ND	2.88	2.07	178328-5
D3100 Receptacle Housing Dual Row Keyed — RoHS Compliant										
10	6	24.76	14.77	22.8	XX	—	A29354-ND	2.20	1.42	1-178127-6
	6	24.76	14.77	22.8	YY	—	A29355-ND	2.01	1.30	2-178127-6
	6	24.76	14.77	22.8	XY	—	A29356-ND	1.56	1.01	3-178127-6
D3100 Header Right Angle Dual Row Keyed										
11	6	25.91	16.97	21.62	XX	15µ" Gold	A29376-ND	3.06	2.20	1-178137-2
	6	25.91	16.97	21.62	XX	30µ" Gold	A29377-ND◆	3.57	2.56	1-178137-3
	6	25.91	16.97	21.62	XX	Tin	A29378-ND◆	2.31	1.66	1-178137-5
	6	25.91	16.97	21.62	YY	15µ" Gold	A29379-ND◆	2.34	1.68	2-178137-2
	6	25.91	16.97	21.62	YY	Tin	A29381-ND◆	2.31	1.66	2-178137-5
	6	25.91	16.97	21.62	XY	15µ" Gold	A29382-ND◆	3.06	2.20	3-178137-2
	6	25.91	16.97	21.62	XY	30µ" Gold	A29383-ND◆	4.11	2.95	3-178137-3
	6	25.91	16.97	21.62	XY	Tin	A29384-ND◆	2.31	1.66	3-178137-5
D3100 Header Straight Dual Row Keyed										
12	6	21.62	21.6	16.97	XX	30µ" Gold	A29412-ND◆	2.85	2.05	1-178141-3
	6	21.62	21.6	16.97	XX	Tin	A29413-ND◆	1.80	1.29	1-178141-5
	6	21.62	21.6	16.97	XY	15µ" Gold	A29414-ND◆	2.28	1.64	3-178141-2
	6	21.62	21.6	16.97	XY	30µ" Gold	A29415-ND	2.85	2.05	3-178141-3
	6	21.62	21.6	16.97	XY	Tin	A29416-ND	1.56	1.12	3-178141-5
D3100 Tab Housing 3Row — RoHS Compliant										
13	18	—	—	—	—	—	A29860-ND	15.50	9.95	1376807-1
	18	—	—	—	—	—	A29861-ND	13.73	8.81	1376807-2
D3200 Tab Housing Free Hanging Keyed — RoHS Compliant										
1	2	19.08	12.7	33.6	X	—	A29557-ND	1.59	1.02	1-179552-2
	2	19.08	12.7	33.6	Y	—	A29558-ND	.50	.33	2-179552-2
	3	24.16	12.7	33.6	X	—	A29559-ND	1.59	1.02	1-179552-3
	3	24.16	12.7	33.6	Y	—	A29560-ND	.56	.36	2-179552-3
	4	29.24	12.7	33.6	X	—	A29561-ND	2.99	1.93	1-179552-4
	4	29.24	12.7	33.6	Y	—	A29562-ND	.93	.60	2-179552-4
8	6	28.11	20.32	33.6	XX	—	A29569-ND	2.39	1.53	1-179554-3
	6	28.11	20.32	33.6	YY	—	A29570-ND	.95	.62	2-179554-3
	6	28.11	20.32	33.6	XY	—	A29571-ND	.95	.62	3-179554-3
	12	43.35	20.32	33.6	XX	—	A29572-ND	1.25	.80	1-179554-6
	12	43.35	20.32	33.6	YY	—	A29573-ND	1.25	.80	2-179554-6
	12	43.35	20.32	33.6	XY	—	A29574-ND	1.54	.99	3-179554-6
D3200 Panel Mount — RoHS Compliant										
14	6	—	—	—	—	—	A29686-ND	2.54	1.64	1-917266-3
D3200 Tab Housing Panel Mount Keyed — RoHS Compliant										
2	2	36.83	12.7	33.6	X	—	A29563-ND	.58	.38	1-179553-2
	2	36.83	12.7	33.6	Y	—	A29564-ND	.58	.38	2-179553-2
	3	41.91	12.7	33.6	X	—	A29565-ND	.61	.40	1-179553-3
	3	41.91	12.7	33.6	Y	—	A29566-ND	.61	.40	2-179553-3
	4	46.99	12.7	33.6	X	—	A29567-ND	.85	.55	1-179553-4
	4	46.99	12.7	33.6	Y	—	A29568-ND	.85	.55	2-179553-4
9	6	41.91	20.32	33.6	XX	—	A29575-ND	2.89	1.86	1-179555-3
	6	41.91	20.32	33.6	YY	—	A29576-ND	2.89	1.86	2-179555-3
	6	41.91	20.32	33.6	XY	—	A29577-ND	1.14	.74	3-179555-3
	12	57.91	20.32	33.6	XX	—	A29578-ND	1.59	1.02	1-179555-6
	12	57.91	20.32	33.6	YY	—	A29579-ND	1.19	.77	2-179555-6
	12	57.91	20.32	33.6	XY	—	A29580-ND	3.15	2.03	3-179555-6
	20	78.23	20.32	33.6	XX	—	A29581-ND	2.07	1.33	1-179555-8
D3200 Receptacle Housing Keyed — RoHS Compliant										
3	2	24.62	7.15	22.8	X	—	A29357-ND	1.14	.74	1-178128-2
	2	24.62	7.15	22.8	Y	—	A29358-ND	1.14	.74	2-178128-2
	3	29.7	7.15	22.8	X	—	A29359-ND	1.22	.79	1-178128-3
	3	29.7	7.15	22.8	Y	—	A29360-ND	1.22	.79	2-178128-3
	4	34.78	7.15	22.8	X	—	A29361-ND	1.46	.94	1-178128-4
	4	34.78	7.15	22.8	Y	—	A29362-ND	1.46	.94	2-178128-4
3	5	39.86	7.15	22.8	X	—	A29363-ND	1.80	1.16	1-178128-5
	5	39.86	7.15	22.8	Y	—	A29364-ND	2.04	1.31	2-178128-5
	6	44.94	7.15	22.8	X	—	A29365-ND	2.68	1.72	1-178128-6
	6	44.94	7.15	22.8	Y	—	A29366-ND	1.88	1.21	2-178128-6
10	6	27.3	14.77	22.8	XX	—	A29367-ND	1.72	1.11	1-178129-6
	6	27.3	14.77	22.8	YY	—	A29368-ND	1.72	1.11	2-178129-6
	6	27.3	14.77	22.8	XY	—	A29369-ND	1.72	1.11	3-178129-6
	10	37.46	14.77	22.8	XX	—	A29733-ND	3.15	2.03	1-917659-5
	10	37.46	14.77	22.8	YY	—	A29734-ND	3.39	2.18	2-917659-5
	10	37.46	14.77	22.8	XY	—	A29735-ND	3.07	1.98	3-917659-5
	12	42.54	14.77	22.8	XX	—	A29736-ND	2.15	1.38	1-917659-6
	12	42.54	14.77	22.8	YY	—	A29737-ND	2.99	1.93	2-917659-6
	12	42.54	14.77	22.8	XY	—	A29738-ND	2.81	1.81	3-917659-6
	20	62.86	14.77	22.8	XX	—	A29739-ND	3.66	2.35	1-917659-8
D3200 Header Straight Keyed										
5	2	19.08	—	—	X	30µ" Gold	A29688-ND◆	1.77	1.27	1-917337-3
	2	19.08	—	—	Y	15µ" Gold	A29690-ND◆	2.10	1.51	2-917337-2
	2	19.08	—	—	Y	30µ" Gold	A29691-ND◆	2.37	1.70	2-917337-3
	2	19.08	—	—	Y	Tin	A29692-ND◆	1.74	1.25	2-917337-5
	3	24.16	—	—	X	30µ" Gold	A29371-ND◆	5.91	4.24	1-178136-3
	3	24.16	—	—	Y	30µ" Gold	A29374-ND◆	4.32	3.10	2-178136-3
	3	24.16	—	—	Y	Tin	A29375-ND◆	3.66	2.63	2-178136-5
	4	29.24	—	—	X	15µ" Gold	A29693-ND	3.30	2.37	1-917338-2
	4	29.24	—	—	X	30µ" Gold	A29694-ND	3.81	2.74	1-917338-3
	4	29.24	—	—	X	Tin	A29695-ND◆	2.67	1.92	1-917338-5
	4	29.24	—	—	Y	15µ" Gold	A29696-ND◆	3.33	2.39	2-917338-2
	4	29.24	—	—	Y	30µ" Gold	A29697-ND◆	2.55	1.83	2-917338-3
	4	29.24	—	—	Y	Tin	A29698-ND◆	3.09	2.22	2-917338-5
	5	34.32	—	—	X	15µ" Gold	A29628-ND◆	1.83	1.32	1-316132-2
	5	34.32	—	—	X	30µ" Gold	A29629-ND◆	2.25	1.62	1-316132-3
	5	34.32	—	—	X	Tin	A29630-ND◆	1.77	1.27	1-316132-5
	5	34.32	—	—	Y	15µ" Gold	A29631-ND◆	1.83	1.32	2-316132-2
	5	34.32	—	—	Y	30µ" Gold	A29632-ND◆	2.25	1.62	2-316132-3
	5	34.32	—	—	Y	Tin	A29633-ND◆	1.80	1.29	2-316132-5
	6	39.4	—	—	X	15µ" Gold	A29634-ND◆	2.07	1.49	1-316133-2
	6	39.4	—	—	X	30µ" Gold	A29635-ND◆	2.52	1.81	1-316133-3
	6	39.4	—	—	Y	15µ" Gold	A29637-ND◆	2.13	1.53	2-316133-2
	6	39.4	—	—	Y	30µ" Gold	A29638-ND◆	2.52	1.81	2-316133-3
12	6	24.16	21.6	16.97	XX	30µ" Gold	A29402-ND◆	3.69	2.65	1-178140-3
	6	24.16	21.6	16.97	XX	Tin	A29403-ND◆	2.46	1.77	1-178140-5
	6	24.16	21.6	16.97	YY	Tin	A29407-ND◆	2.46	1.77	2-178140-5
	6	24.16	21.6	16.97	XY	30µ" Gold	A29409-ND◆	3.69	2.65	3-178140-3
	6	24.16	21.6	16.97	XY	Tin	A29410-ND◆	2.46	1.77	3-178140-5
	10	34.32	21.6	16.97	XX	15µ" Gold	A29715-ND◆	2.97	2.13	1-917657-2
	10	34.32	21.6	16.97	XX	30µ" Gold	A29716-ND◆	3.78	2.71	1-917657-3
	10	34.32	21.6	16.97	XX	Tin	A29717-ND◆	1.98	1.42	1-917657-5
	10	34.32	21.6	16.97	YY	15µ" Gold	A29718-ND◆	2.97	2.13	2-917657-2
	10	34.32	21.6	16.97	YY	30µ" Gold	A29719-ND◆	3.78	2.71	2-917657-3
	10	34.32	21.6	16.97	YY	Tin	A29720-ND◆	1.98	1.42	2-917657-5
	10	34.32	21.6	16.97	XY	15µ" Gold	A29721-ND◆	5.49	3.94	3-917657-2
	10	34.32	21.6	16.97	XY	30µ" Gold	A29722-ND◆	4.47	3.21	3-917657-3
	10	34.32	21.6	16.97	XY	Tin	A29723-ND◆	1.26	.91	3-917657-5
	12	39.4	21.6	16.97	XX	15µ" Gold	A29724-ND◆	3.45	2.48	1-917658-2
	12	39.4	21.6	16.97	XX	30µ" Gold	A29725-ND◆	5.22	3.75	1-917658-3
	12	39.4	21.6	16.97	XX	Tin	A29726-ND◆	2.25	1.62	1-917658-5
	12	39.4	21.6	16.97	YY	15µ" Gold	A29727-ND◆	6.15	4.41	2-917658-2
	12	39.4	21.6	16.97	YY	30µ" Gold	A29728-ND◆	10.02	7.19	2-917658-3
	12	39.4	21.6	16.97	YY	Tin	A29729-ND	2.25	1.62	2-917658-5
	12	39.4	21.6	16.97	XY	15µ" Gold	A29730-ND◆	5.76	4.13	3-917658-2
	12	39.4	21.6	16.97	XY	30µ" Gold	A29731-ND◆	5.22	3.75	3-917658-3
	12	39.4	21.6	16.97	XY	Tin	A29732-ND◆	1.95	1.40	3-917658-5
D3200 Header Right Angle Keyed										
4	2	19.08	—	—	X	15µ" Gold	A29545-ND◆	3.63	2.61	1-179276-2
	2	19.08	—	—	X	30µ" Gold	A29546-ND◆	3.72	2.67	1-179276-3
	2	19.08	—	—	X	Tin	A29547-ND	3.45	2.48	1-179276-5
	2	19.08	—	—	Y	15µ" Gold	A29548-ND◆	3.30	2.37	2-179276-2
	2	19.08	—	—	Y	30µ" Gold	A29549-ND◆	3.45	2.48	2-179276-3
	3	24.16	—	—	X	15µ" Gold	A29385-ND◆	1.89	1.36	1-178138-2
	3	24.16	—	—	X	30µ" Gold	A29386-ND◆	1.92	1.38	1-178138-3
	3	24.16	—	—	X	Tin	A29387-ND◆	1.38	.99	1-178138-5
	3	24.16	—	—	Y	15µ" Gold	A29388-ND◆	1.89	1.36	2-178138-2
	3	24.16	—	—	Y	30µ" Gold	A29389-ND◆	1.92	1.38	2-178138-3
	3	24.16	—	—	Y	Tin	A29390-ND◆	1.38	.99	2-178138-5
	4	29.24	—	—	X	15µ" Gold	A29551-ND	2.25	1.62	1-179277-2
	4	29.24	—	—	X	30µ" Gold	A29552-ND◆	3.03	2.18	1-179277-3
	4	29.24	—	—	X	Tin	A29553-ND◆	1.83	1.32	1-179277-5
	4	29.24	—	—	Y	15µ" Gold	A29554-ND◆	2.13	1.53	2-179277-2
	4	29.24	—	—	Y	30µ" Gold	A29555-ND◆	2.43	1.75	2-179277-3
	4	29.24	—	—	Y	Tin	A29556-ND◆	1.71	1.23	2-179277-5
	5	34.32	—	—	X	15µ" Gold	A29616-ND◆	3.03	2.18	1-316130-2
	5	34.32	—	—	X	30µ" Gold	A29617-ND	3.27	2.35	1-316130-3
	5	34.32	—	—	X	Tin	A29618-ND◆	1.89	1.36	1-316130-5
	5	34.32	—	—	Y	30µ" Gold	A29620-ND◆	2.91	2.09	2-316130-3
	6	39.4	—	—	X	15µ" Gold	A29622-ND◆	3.75	2.69	1-316131-2
	6	39.4	—	—	X	30µ" Gold	A29623-ND	2.85	2.05	1-316131-3

◆ ***RoHS Compliant***

(Continued)

Fig.	No. of Pos.	Dimensions – mm A	B	C	Keying	Body Plating	Digi-Key Part No.	Price Each 1	100	AMP Part No.
4	6	39.4	—	—	X	Tin	A29624-ND◆	2.61	1.88	1-316131-5
	6	39.4	—	—	Y	15µ" Gold	A29625-ND	3.75	2.69	2-316131-2
	6	39.4	—	—	Y	Tin	A29627-ND◆	2.55	1.83	2-316131-5
11	6	27.18	16.97	24.16	XX	15µ" Gold	A29391-ND◆	2.67	1.92	1-178139-2
	6	27.18	16.97	24.16	YY	15µ" Gold	A29392-ND◆	2.79	2.00	2-178139-2
	6	27.18	16.97	24.16	XY	15µ" Gold	A29393-ND◆	2.67	1.92	3-178139-2
	6	27.18	16.97	24.16	XY	15µ" Gold	A29394-ND◆	3.72	2.67	4-178139-2
	6	27.18	16.97	24.16	XX	30µ" Gold	A29395-ND◆	3.12	2.24	1-178139-3
	6	27.18	16.97	24.16	YY	30µ" Gold	A29396-ND◆	3.24	2.33	2-178139-3
	6	27.18	16.97	24.16	YY	Tin	A29399-ND◆	2.16	1.55	2-178139-5
	6	27.18	16.97	24.16	XY	Tin	A29400-ND◆	2.04	1.47	3-178139-5
15	9	—	—	—	XXX	15µ" Gold	A29768-ND◆	5.94	4.26	1-1123624-2
	9	—	—	—	XXX	Tin	A29769-ND◆	4.92	3.53	1-1123624-5
	9	—	—	—	XXY	15µ" Gold	A29770-ND◆	5.94	4.26	3-1123624-2
	9	—	—	—	XXY	Tin	A29771-ND◆	4.92	3.53	3-1123624-5
	9	—	—	—	YYX	15µ" Gold	A29772-ND	4.68	3.36	4-1123624-2
	9	—	—	—	YYX	Tin	A29773-ND	4.92	3.53	4-1123624-5
	9	—	—	—	XYX	15µ" Gold	A29774-ND	5.94	4.26	5-1123624-2
	9	—	—	—	XYX	Tin	A29775-ND◆	5.31	3.81	5-1123624-5
11	10	34.32	16.97	27.18	XX	15µ" Gold	A29598-ND◆	4.62	3.32	1-316080-2
	10	34.32	16.97	27.18	XX	30µ" Gold	A29599-ND◆	4.62	3.32	1-316080-3
	10	34.32	16.97	27.18	XX	Tin	A29600-ND◆	2.85	2.05	1-316080-5
	10	34.32	16.97	27.18	YY	15µ" Gold	A29601-ND◆	6.33	4.54	2-316080-2
	10	34.32	16.97	27.18	YY	30µ" Gold	A29602-ND◆	4.62	3.32	2-316080-3
	10	34.32	16.97	27.18	YY	Tin	A29603-ND◆	3.93	2.82	2-316080-5
	10	34.32	16.97	27.18	XY	15µ" Gold	A29604-ND◆	3.84	2.76	3-316080-2
	10	34.32	16.97	27.18	XY	30µ" Gold	A29605-ND◆	4.56	3.27	3-316080-3
	10	34.32	16.97	27.18	XY	Tin	A29606-ND◆	2.79	2.00	3-316080-5
	12	39.4	16.97	27.18	XX	15µ" Gold	A29607-ND◆	5.43	3.90	1-316081-2
	12	39.4	16.97	27.18	XX	30µ" Gold	A29608-ND◆	5.46	3.92	1-316081-3
	12	39.4	16.97	27.18	XX	Tin	A29609-ND◆	3.36	2.41	1-316081-5
	12	39.4	16.97	27.18	YY	15µ" Gold	A29610-ND◆	4.83	3.47	2-316081-2
	12	39.4	16.97	27.18	YY	30µ" Gold	A29611-ND◆	5.46	3.92	2-316081-3
	12	39.4	16.97	27.18	YY	Tin	A29612-ND◆	3.57	2.56	2-316081-5
	12	39.4	16.97	27.18	XY	15µ" Gold	A29613-ND◆	4.53	3.25	3-316081-2
	12	39.4	16.97	27.18	XY	30µ" Gold	A29614-ND◆	5.40	3.87	3-316081-3

Fig.	No. of Pos.	Dimensions – mm A	Body Plating	Digi-Key Part No.	Price Each 1	100	AMP Part No.
D3400 Receptacle Housing — RoHS Compliant							
16	12	12.22	—	A29417-ND	2.54	1.64	178214-1
	20	19.84	—	A29682-ND	2.17	1.40	917249-1
D3400 Header Right Angle							
17	12	15.02	15µ" Gold	A29418-ND	7.83	5.62	178216-2
	12	15.02	30µ" Gold	A29419-ND◆	7.56	5.42	178216-3
	12	15.02	Tin	A29420-ND◆	7.29	5.23	178216-5
	20	22.64	15µ" Gold	A29683-ND◆	9.99	7.16	917251-2
	20	22.64	30µ" Gold	A29684-ND◆	11.52	8.26	917251-3
	20	22.64	Tin	A29685-ND◆	7.92	5.68	917251-5

Fig.	No. of Pos.	Dimensions – mm A	B	C	Body Plating	Digi-Key Part No.	Price Each 1	100	AMP Part No.
D3500 Tab Housing Free Hanging — RoHS Compliant									
18	12	36.43	—	—	—	A29678-ND	1.93	1.25	917242-6
	12	36.43	—	—	—	A29680-ND	1.64	1.06	3-917242-6
	20	56.75	—	—	—	A29679-ND	2.20	1.42	917242-8
	20	56.75	—	—	—	A29681-ND	1.30	.84	3-917242-8
D3500 Receptacle Housing — RoHS Compliant									
19	2	21.0	—	—	—	A29334-ND	.27	.17	175362-1
	2	21.0	—	—	—	A29839-ND	.34	.23	175362-2
20	4	21.0	—	—	—	A29840-ND	.34	.23	175363-1
	4	17.2	—	—	—	A29841-ND	.40	.26	175363-2
D3500 Header Straight									
12	12	32.48	18.17	21.6	15µ" Gold	A29640-ND	3.36	2.41	316516-2
	12	32.48	18.17	21.6	30µ" Gold	A29641-ND◆	4.35	3.12	316516-3
	12	32.48	18.17	21.6	Tin	A29642-ND◆	4.98	3.57	316516-5
	20	52.8	18.17	21.6	15µ" Gold	A29643-ND◆	15.09	10.82	316517-2
	20	52.8	18.17	21.6	30µ" Gold	A29644-ND◆	6.57	4.71	316517-3
	20	52.8	18.17	21.6	Tin	A29645-ND	3.45	2.48	316517-5
D3500 Header Right Angle									
11	4	27.18	18.17	12.16	15µ" Gold	A29854-ND◆	1.77	1.27	1376133-2
	12	32.48	18.17	27.18	15µ" Gold	A29845-ND◆	9.30	6.67	177555-2
	12	32.48	18.17	27.18	30µ" Gold	A29846-ND◆	6.30	4.52	177555-3
	12	32.48	18.17	27.18	Tin	A29847-ND◆	5.79	4.15	177555-5
	20	52.8	18.17	27.18	15µ" Gold	A29842-ND	6.00	4.30	175365-2
	20	52.8	18.17	27.18	30µ" Gold	A29843-ND	7.41	5.32	175365-3
	20	52.8	18.17	27.18	Tin	A29844-ND◆	4.62	3.32	175365-5
D3500 Tab Housing Dual Row — RoHS Compliant									
21	12	52.00	—	—	—	A29674-ND	3.45	2.21	917241-6
	12	52.00	—	—	—	A29676-ND	1.70	1.09	3-917241-6
	20	72.00	—	—	—	A29675-ND	5.30	3.40	917241-8
	20	72.00	—	—	—	A29677-ND	1.83	1.18	3-917241-8

Wire Size AWG	Body Plating	Digi-Key Part No.	Price Each 1	100	Tape and Reel Qty.	Pricing	AMP Part No.
D3000 Receptacle Contacts — RoHS Compliant							
14-16	15µ" Gold	A29283TR-ND	—	—	3,000	280.00/M	353715-2
14-16	15µ" Gold	A29285TR-ND	—	—	3,000	280.00/M	1-353715-2
14-16	15µ" Gold	A29283-ND	.45	.29	—	—	353717-2
14-16	15µ" Gold	A29299TR-ND	—	—	3,000	820.00/M	917484-2
14-16	15µ" Gold	A29301TR-ND	—	—	3,000	320.00/M	1-917484-2
14-16	15µ" Gold	A29299-ND	.80	.51	—	—	917511-2
14-16	15µ" Gold	A29301-ND	1.38	.89	—	—	1-917511-2
14-16	30µ" Gold	A29284TR-ND	—	—	3,000	440.00/M	353715-3
14-16	30µ" Gold	A29286TR-ND	—	—	3,000	380.00/M	1-353715-3
14-16	30µ" Gold	A29286-ND	.61	.40	—	—	1-353717-3
14-16	30µ" Gold	A29300TR-ND	—	—	3,000	380.00/M	917484-3
14-16	30µ" Gold	A29302TR-ND	—	—	3,000	380.00/M	1-917484-3
14-16	30µ" Gold	A29300-ND	.93	.60	—	—	917511-3
14-16	30µ" Gold	A29302-ND	1.62	1.04	—	—	1-917511-3
14-16	Tin	A29287TR-ND	—	—	3,000	180.00/M	1-353715-5
14-16	Tin	A29287-ND	.24	.16	—	—	1-353717-5
14-16	Tin	A29303TR-ND	—	—	3,000	180.00/M	1-917484-5
14-16	Tin	A29303-ND	.56	.36	—	—	1-917511-5
16-20	15µ" Gold	A29225TR-ND	—	—	3,000	560.00/M	175196-2
16-20	15µ" Gold	A29225-ND	.80	.51	—	—	175218-2
16-20	15µ" Gold	A29227TR-ND	—	—	3,000	560.00/M	1-175196-2
16-20	15µ" Gold	A29227-ND	.80	.51	—	—	1-175218-2
16-20	30µ" Gold	A29226TR-ND	—	—	3,000	660.00/M	175196-3
16-20	30µ" Gold	A29226-ND	.93	.60	—	—	175218-3
16-20	30µ" Gold	A29228TR-ND	—	—	3,000	660.00/M	1-175196-3
16-20	30µ" Gold	A29228-ND	.93	.60	—	—	1-175218-3
16-20	Tin	A29229TR-ND	—	—	3,000	380.00/M	1-175196-5
16-20	Tin	A29229-ND	.56	.36	—	—	1-175218-5
20-24	15µ" Gold	A29220TR-ND	—	—	3,500	240.00/M	175195-2
20-24	15µ" Gold	A29220-ND	.69	.45	—	—	175217-2
20-24	15µ" Gold	A29222TR-ND	—	—	3,500	560.00/M	1-175195-2
20-24	15µ" Gold	A29222-ND	.80	.51	—	—	1-175217-2
20-24	30µ" Gold	A29221TR-ND	—	—	3,500	320.00/M	175195-3
20-24	30µ" Gold	A29221-ND	1.43	.92	—	—	175217-3
20-24	30µ" Gold	A29223TR-ND	—	—	3,500	660.00/M	1-175195-3
20-24	30µ" Gold	A29223-ND	.93	.60	—	—	1-175217-3
20-24	Tin	A29224TR-ND	—	—	3,500	380.00/M	1-175195-5
20-24	Tin	A29224-ND	.56	.36	—	—	1-175217-5
24-28	15µ" Gold	A29215TR-ND	—	—	4,000	240.00/M	175194-2
24-28	15µ" Gold	A29215-ND	.80	.51	—	—	175216-2
24-28	15µ" Gold	A29217TR-ND	—	—	4,000	240.00/M	1-175194-2
24-28	15µ" Gold	A29217-ND	.80	.51	—	—	1-175216-2
24-28	30µ" Gold	A29216TR-ND	—	—	4,000	280.00/M	175194-3
24-28	30µ" Gold	A29216-ND	1.09	.70	—	—	175216-3
24-28	30µ" Gold	A29218TR-ND	—	—	4,000	320.00/M	1-175194-3
24-28	30µ" Gold	A29218-ND	.93	.60	—	—	1-175216-3
24-28	Tin	A29219TR-ND	—	—	4,000	180.00/M	1-175194-5
24-28	Tin	A29219-ND	.56	.36	—	—	1-175216-5
D3000 Tab Contacts — RoHS Compliant							
14-16	15µ" Gold	A29288TR-ND	—	—	4,000	320.00/M	353716-2
14-16	15µ" Gold	A29288-ND	.42	.28	—	—	353718-2
14-16	15µ" Gold	A29304TR-ND	—	—	3,000	360.00/M	917485-2
14-16	15µ" Gold	A29304-ND	.85	.55	—	—	917512-2
14-16	30µ" Gold	A29289TR-ND	—	—	4,000	380.00/M	353716-3
14-16	30µ" Gold	A29289-ND	.61	.40	—	—	353718-3
14-16	30µ" Gold	A29305TR-ND	—	—	3,000	360.00/M	917485-3
14-16	30µ" Gold	A29305-ND	1.43	.92	—	—	917512-3
14-16	Tin	A29290TR-ND	—	—	4,000	180.00/M	353716-5
14-16	Tin	A29290-ND	.24	.16	—	—	353718-5
14-16	Tin	A29306TR-ND	—	—	3,000	180.00/M	917485-5
14-16	Tin	A29306-ND	.82	.53	—	—	917512-5
16-20	15µ" Gold	A29251TR-ND	—	—	3,000	340.00/M	175286-2
16-20	15µ" Gold	A29251-ND	.69	.45	—	—	175289-2
16-20	30µ" Gold	A29252TR-ND	—	—	3,000	440.00/M	175286-3
16-20	30µ" Gold	A29252-ND	.80	.51	—	—	175289-3
16-20	Tin	A29253TR-ND	—	—	3,000	340.00/M	175286-5
16-20	Tin	A29253-ND	.50	.33	—	—	175289-5
20-24	15µ" Gold	A29248TR-ND	—	—	3,500	460.00/M	175285-2
20-24	15µ" Gold	A29248-ND	.69	.45	—	—	175288-2
20-24	30µ" Gold	A29249TR-ND	—	—	3,500	540.00/M	175285-3
20-24	30µ" Gold	A29249-ND	.80	.51	—	—	175288-3
20-24	Tin	A29250TR-ND	—	—	3,500	340.00/M	175285-5
20-24	Tin	A29250-ND	.50	.33	—	—	175288-5
24-28	15µ" Gold	A29245TR-ND	—	—	4,000	360.00/M	175284-2
24-28	15µ" Gold	A29245-ND	.42	.28	—	—	175287-2
24-28	30µ" Gold	A29246TR-ND	—	—	4,000	440.00/M	175284-3
24-28	30µ" Gold	A29246-ND	.80	.51	—	—	175287-3
24-28	Tin	A29247TR-ND	—	—	4,000	180.00/M	175284-5
24-28	Tin	A29247-ND	.50	.33	—	—	175287-5

Description	Digi-Key Part No.	Price Each 1	100	AMP Part No.
D3000 Crimp Tool, 24-28 AWG	A30052-ND	519.12	—	91565-1
D3000 Crimp Tool, 20-24 AWG	A30053-ND	468.14	—	91559-1
D3000 Crimp Tool, 16-20 AWG	A30054-ND	468.14	—	91558-1
D3000 Crimp Tool, 14-16 AWG 2L	A30055-ND	519.12	—	91560-1
D3000 Crimp Tool, 14-16 AWG 3L	A30056-ND	551.57	—	91561-1
D3000 Extraction Tool	A36245-ND	44.07	—	234168-1
Conn. Kit Receptacle for 6-Position Motor Connector	A34529-ND◆	42.14	27.03	176346-8
Keying Plug for D3000 Series Receptacle Housing	A34530-ND◆	.65	.53	175855-1

◆ *RoHS Compliant*

(Continued)

Dynamic Series D-5000

Specifications: • Material: Black GF Polyester **• Flammability:** UL 94V-0 **• Voltage Rating:** 630VAC **• Current Rating:** 12A - 45A **• Temperature Rating:** -55°C ~ 105°C

Fig. 1

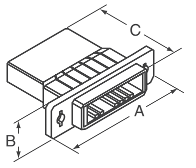

Fig. 2

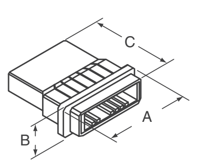

Fig. 3

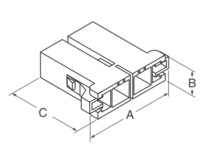

Fig. 4

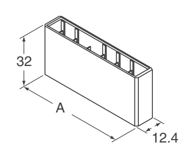

Fig. 5

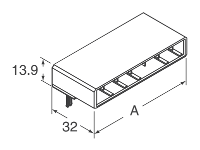

Fig. 6

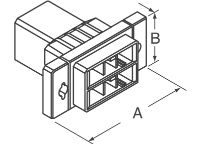

Fig. 7

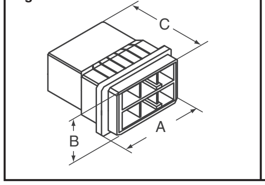

Fig. 8

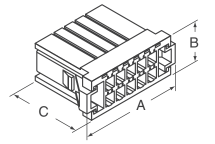

Fig. 9

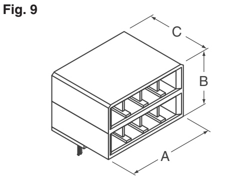

Fig. 10

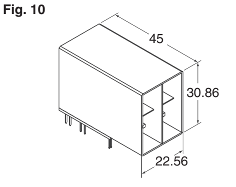

Fig. 11

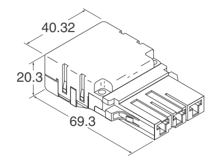

Fig.	No. of Pos.	Dimensions – mm			Keying	Body Plating	Digi-Key Part No.	Price Each		AMP Part No.
		A	B	C				1	100	
D5200 Tab Housing Panel Mount Single Row Keyed — RoHS Compliant										
1	2	47.0	16.54	47.0	X	—	A29650-ND	.87	.57	1-353047-2
	2	47.0	16.54	47.0	Y	—	A29651-ND	.74	.48	2-353047-2
	3	57.0	16.54	47.0	X	—	A29652-ND	.95	.62	1-353047-3
	3	57.0	16.54	47.0	Y	—	A29653-ND	.95	.62	2-353047-3
D5200 Tab Housing Free Hanging Single Row Keyed — RoHS Compliant										
2	2	33.44	16.54	47.0	X	—	A29646-ND	.87	.57	1-353046-2
	2	33.44	16.54	47.0	Y	—	A29647-ND	1.09	.70	2-353046-2
	3	43.6	16.54	47.0	X	—	A29648-ND	3.74	2.40	1-353046-3
	3	43.6	16.54	47.0	Y	—	A29649-ND	3.84	2.47	2-353046-3
D5200 Receptacle Housing Single Row Keyed — RoHS Compliant										
3	2	35.76	9.8	29.0	X	—	A29582-ND	1.70	1.09	1-179958-2
	2	35.76	9.8	29.0	Y	—	A29583-ND	2.23	1.43	2-179958-2
	3	45.92	9.8	29.0	X	—	A29584-ND	2.25	1.45	1-179958-3
	3	45.92	9.8	29.0	Y	—	A29585-ND	2.25	1.45	2-179958-3
	4	53.68	9.8	29.0	X	—	A29586-ND	3.07	1.98	1-179958-4
	4	53.68	9.8	29.0	Y	—	A29587-ND	2.54	1.64	2-179958-4
	6	74.0	9.8	29.0	X	—	A29588-ND	4.11	2.64	1-179958-6
	6	74.0	9.8	29.0	Y	—	A29589-ND	4.21	2.71	2-179958-6
D5200 Header Straight Single Row Keyed										
4	2	29.36	—	—	X	30µ” Gold	A29659-ND	3.60	2.58	1-353080-3
	2	29.36	—	—	Y	15µ” Gold	A29660-ND◆	3.09	2.22	2-353080-2
	2	29.36	—	—	Y	30µ” Gold	A29661-ND	2.97	2.13	2-353080-3
	3	39.52	—	—	X	15µ” Gold	A29668-ND	4.47	3.21	1-353082-2
	3	39.52	—	—	X	30µ” Gold	A29669-ND◆	6.90	4.95	1-353082-3
	3	39.52	—	—	Y	15µ” Gold	A29670-ND◆	4.23	3.04	2-353082-2
	3	39.52	—	—	Y	30µ” Gold	A29671-ND◆	4.74	3.40	2-353082-3
	4	49.68	—	—	X	15µ” Gold	A29709-ND◆	4.77	3.42	1-917542-2
	4	49.68	—	—	X	30µ” Gold	A29710-ND◆	5.22	3.75	1-917542-3
	4	49.68	—	—	Y	15µ” Gold	A29711-ND◆	3.75	2.69	2-917542-2
	6	70.0	—	—	X	15µ” Gold	A29594-ND◆	8.43	6.05	1-179960-2
	6	70.0	—	—	X	30µ” Gold	A29595-ND◆	10.77	7.72	1-179960-3
	6	70.0	—	—	Y	15µ” Gold	A29596-ND	6.93	4.97	2-179960-2
	6	70.0	—	—	Y	30µ” Gold	A29597-ND◆	10.74	7.70	2-179960-3
D5200 Header Right Angle Single Row Keyed										
5	2	29.36	—	—	X	15µ” Gold	A29654-ND◆	3.63	2.61	1-353079-2
	2	29.36	—	—	Y	15µ” Gold	A29656-ND	4.02	2.89	2-353079-2
	2	29.36	—	—	Y	30µ” Gold	A29657-ND◆	4.80	3.44	2-353079-3
	3	39.52	—	—	X	15µ” Gold	A29662-ND◆	5.07	3.64	1-353081-2
	3	39.52	—	—	X	30µ” Gold	A29663-ND◆	5.55	3.98	1-353081-3
	3	39.52	—	—	Y	15µ” Gold	A29664-ND◆	4.89	3.51	2-353081-2
	3	39.52	—	—	Y	30µ” Gold	A29665-ND◆	5.40	3.87	2-353081-3
	4	49.68	—	—	X	15µ” Gold	A29703-ND	6.75	4.84	1-917541-2
	4	49.68	—	—	X	30µ” Gold	A29704-ND◆	8.07	5.79	1-917541-3
	4	49.68	—	—	Y	15µ” Gold	A29705-ND◆	5.58	4.00	2-917541-2
	4	49.68	—	—	Y	30µ” Gold	A29706-ND	6.78	4.86	2-917541-3
	6	70.0	—	—	Y	15µ” Gold	A29592-ND	10.59	7.59	2-179959-2
	6	70.0	—	—	X	15µ” Gold	A29590-ND◆	10.59	7.59	1-179959-2
	6	70.0	—	—	X	30µ” Gold	A29591-ND◆	19.62	14.07	1-179959-3
	6	70.0	—	—	Y	30µ” Gold	A29593-ND◆	8.67	6.22	2-179959-3
D5200 Tab Housing Panel Mount Dual Row Keyed — RoHS Compliant										
6	4	47.0	26.7	47.0	XX	—	A29753-ND	3.07	1.98	1-917809-2
	4	47.0	26.7	47.0	YY	—	A29754-ND	3.07	1.98	2-917809-2
	4	47.0	26.7	47.0	XY	—	A29755-ND	4.53	2.91	3-917809-2
	6	57.0	26.7	47.0	XX	—	A29756-ND	4.64	2.98	1-917809-3
	6	57.0	26.7	47.0	YY	—	A29757-ND	4.64	2.98	2-917809-3
	6	57.0	26.7	47.0	XY	—	A29758-ND	4.64	2.98	3-917809-3
D5200 Tab Housing Dual Row Keyed — RoHS Compliant										
7	4	33.44	26.7	47.0	XX	—	A29747-ND	1.25	.80	1-917808-2
	4	33.44	26.7	47.0	YY	—	A29748-ND	1.70	1.09	2-917808-2
	4	33.44	26.7	47.0	XY	—	A29749-ND	1.70	1.09	3-917808-2
	6	43.6	26.7	47.0	XX	—	A29750-ND	1.33	.85	1-917808-3
7	6	43.6	26.7	47.0	YY	—	A29751-ND	2.33	1.50	2-917808-3
	6	43.6	26.7	47.0	XY	—	A29752-ND	2.07	1.33	3-917808-3
D5200 Receptacle Housing Dual Row Keyed — RoHS Compliant										
8	4	33.36	19.96	29.0	—	—	A29740-ND	3.31	2.13	917807-2
	4	33.36	19.96	29.0	XX	—	A29741-ND	3.37	2.16	1-917807-2
	4	33.36	19.96	29.0	YY	—	A29742-ND	3.37	2.16	2-917807-2
	4	33.36	19.96	29.0	XY	—	A29743-ND	3.37	2.16	3-917807-2
	6	43.52	19.96	29.0	XX	—	A29744-ND	3.39	2.18	1-917807-3
	6	43.52	19.96	29.0	YY	—	A29745-ND	3.39	2.18	2-917807-3
	6	43.52	19.96	29.0	XY	—	A29746-ND	3.39	2.18	3-917807-3
D5200 Header Right Angle Dual Row Keyed										
9	4	29.36	22.56	42.16	XX	15µ” Gold	A29759-ND◆	7.35	5.27	1-1123309-2
	4	29.36	22.56	42.16	YY	15µ” Gold	A29761-ND◆	7.35	5.27	2-1123309-2
	4	29.36	22.56	42.16	YY	30µ” Gold	A29762-ND◆	8.58	6.15	2-1123309-3
	4	29.36	22.56	42.16	XY	15µ” Gold	A29763-ND	6.93	4.97	3-1123309-2
	4	29.36	22.56	42.16	XY	30µ” Gold	A29764-ND◆	8.76	6.28	3-1123309-3
10	4	—	—	—	XX	Silver	A29819-ND◆	15.72	11.27	1-1318983-6
	4	—	—	—	YY	Silver	A29820-ND	9.00	6.45	2-1318983-6
	4	—	—	—	XY	Silver	A29821-ND	17.85	12.80	3-1318983-6
9	8	49.68	24.8	32.0	—	15µ” Gold	A29776-ND◆	12.51	8.97	1123829-1
D5200 Cable Clamp Receptacle Single Row — RoHS Compliant										
11	3	—	—	—	—	—	A29862-ND	5.50	4.46	1473668-1

Wire Size AWG	Body Plating	Digi-Key Part No.	Price Each		Tape and Reel		AMP Part No.
			1	100	Qty.	Pricing	
D5000 Receptacle Contacts — RoHS Compliant							
8	15µ” Gold	A29326-ND	1.43	.92	—	—	1318697-2
8	15µ” Gold	A29326TR-ND	—	—	800	1134.00	1318696-2
8	Silver	A29327-ND	1.43	.92	—	—	1318697-6
8	Silver	A29327TR-ND	—	—	800	936.00	1318696-6
10-12	15µ” Gold	A29272-ND	1.33	.85	—	—	316041-2
10-12	15µ” Gold	A29272TR-ND	—	—	1,200	1920.00/M	179956-2
10-12	30µ” Gold	A29273-ND	1.46	.94	—	—	316041-3
10-12	30µ” Gold	A29273TR-ND	—	—	1,200	2260.00/M	179956-3
10-12	Silver	A29274-ND	3.05	1.96	—	—	316041-6
10-12	Silver	A29274TR-ND	—	—	1,200	1040.00/M	179956-6
14-16	15µ” Gold	A29269-ND	1.19	.77	—	—	316040-2
14-16	15µ” Gold	A29269TR-ND	—	—	1,500	940.00/M	179955-2
14-16	30µ” Gold	A29270-ND	2.86	1.84	—	—	316040-3
14-16	30µ” Gold	A29270TR-ND	—	—	1,500	2320.00/M	179955-3
14-16	Silver	A29271-ND	3.26	2.10	—	—	316040-6
14-16	Silver	A29271TR-ND	—	—	1,500	2320.00/M	179955-6
16-20	Silver	A29333-ND	2.49	1.60	—	—	1318986-6
16-20	Silver	A29333TR-ND	—	—	1,800	880.00/M	1318985-6
D5000 Tab Contacts — RoHS Compliant							
10-12	15µ” Gold	A29313-ND	1.30	.84	—	—	917805-2
10-12	15µ” Gold	A29313TR-ND	—	—	1,200	820.00/M	917803-2
10-12	30µ” Gold	A29314-ND	3.21	2.06	—	—	917805-3
10-12	30µ” Gold	A29314TR-ND	—	—	1,200	900.00/M	917803-3
14-16	15µ” Gold	A29311-ND	1.09	.70	—	—	917804-2
14-16	15µ” Gold	A29311TR-ND	—	—	1,500	1240.00/M	917802-2
14-16	30µ” Gold	A29312-ND	3.21	2.06	—	—	917804-3
14-16	30µ” Gold	A29312TR-ND	—	—	1,500	1820.00/M	917802-3

Description	Digi-Key Part No.	Price Each	AMP Part No.
D5000 Crimp Tool, 16-20 AWG.........................	A30057-ND	879.00	91596-1
D5000 Crimp Tool, 14-16 AWG.........................	A30058-ND	1353.42	234170-1
D5000 Crimp Tool, 10-12 AWG.........................	A30059-ND	1004.25	234171-1
D5000 Extraction Tool	A32487-ND	33.66	409158-1

◆ *RoHS Compliant*

M Series Pin and Socket Connectors

Specifications: • Temperature Rating: -55°C ~ 150°C • Flammability Ratings: UL94V-0 • Dielectric Withstanding Voltage (at sea level): Type II Contacts, 1500VAC, RMS Type III+ Contacts, 900VAC, RMS • Durability (Mating/Unmating): Types II and III+ Contacts • Gold Plated: 500 cycles; Types II and III+ Contacts, • Bright Tin-Lead Plated: 50 cycles

Fig. 1

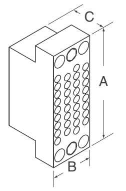

34 Position Shown

Fig. 2

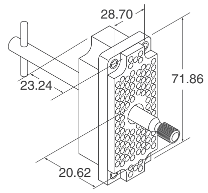

Fig. 3

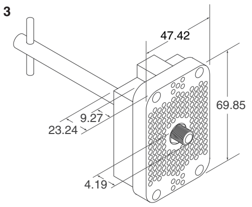

Fig. 4

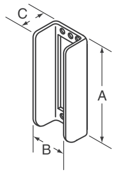

Fig. 5

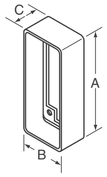

Fig. 6

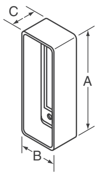

Fig. 7

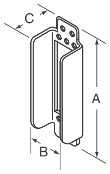

Fig. 8

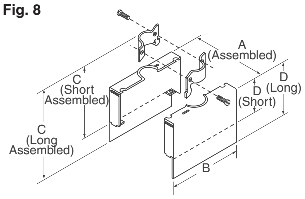

Fig. 9

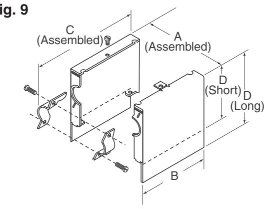

Fig. 10

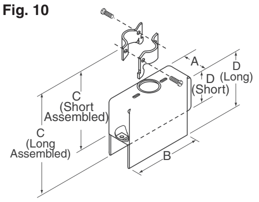

Standard Housings

Fig.	No. of Pos.	Housing Material	Dimensions (mm)			Digi-Key Part No.	Price Each		AMP Part No.
			A	B	C		1	100	
Plug Housing									
1	6	Black Phenolic	25.4	9.65	23.24	A30139-ND	8.43	5.41	202758-1
	14		31.75	11.18	23.24	A30184-ND	5.51	3.54	201355-1
	20		39.62	11.18	23.24	A30114-ND	7.26	4.66	201356-1
	26		41.4	14.22	23.24	A30115-ND	8.27	5.31	201359-1
	34		50.8	19.05	23.24	A30185-ND	8.11	5.21	1-201357-1
	41		68.25	11.18	23.24	A30132-ND	20.67	13.26	202135-2
	50		65.91	19.05	23.24	A30186-ND	14.20	9.12	201358-1
	75		65.91	28.19	23.24	A30181-ND	19.72	12.65	201310-1
	104		69.85	22.22	23.24	A30183-ND	28.96	18.59	201345-1
Receptacle Housing									
1	6	Black Phenolic	25.4	9.65	23.24	A30226-ND	8.72	5.60	202757-1
	14		31.75	11.18	23.24	A30179-ND	5.72	3.68	201298-1
	20		39.62	11.18	23.24	A30151-ND	8.85	5.68	200346-2
	26		41.4	14.22	23.24	A30154-ND	8.77	5.63	200512-2
	34		50.8	19.05	23.24	A30164-ND	8.43	5.41	200838-2
	41		68.25	11.18	23.24	A30180-ND	14.73	9.46	201302-1
	50		65.91	19.05	23.24	A30150-ND	14.95	9.59	200277-2
	75		65.91	28.19	23.24	A30182-ND	14.92	9.58	201311-1
	104		69.85	22.22	23.24	A30104-ND	28.81	18.48	201037-1
CF Position with Center Fasteners (Plug)									
2	104	Black Phenolic	—	—	—	A30201-ND	74.76	47.96	201692-4
3	160		—	—	—	A30228-ND	46.59	29.89	202799-2
CF Position with Center Fasteners (Receptacle)									
2	104	Black Phenolic	—	—	—	A30198-ND	30.48	19.55	201532-4
3	160		—	—	—	A30229-ND	49.66	31.86	202800-2

Protective Hardware

Fig.	No. of Pos.	Material	Dimensions (mm)			Digi-Key Part No.	Price Each		AMP Part No.
			A	B	C		1	100	
Pin Hoods, Internal Open-End — RoHS Compliant									
4	6	Nickel Plated Steel	25.4	12.7	18.24	A30234-ND	22.43	18.16	204258-6
	14		31.75	13.97	18.24	A30188-ND	8.65	7.01	201363-4
	26		41.45	18.42	18.24	A30125-ND	11.78	9.54	201785-4
	34		50.8	22.35	18.24	A30202-ND	11.82	9.58	201786-4
Pin Hoods, Internal Closed-End — RoHS Compliant									
5	34	Nickel Plated Steel	54.1	22.35	17.45	A30136-ND	13.50	10.94	202434-4
	50		73.02	24.18	17.45	A30223-ND	9.35	7.57	202394-2
	75		70.23	33.27	17.45	A30190-ND	7.12	5.77	201369-4
	104		75.57	44.2	17.45	A30116-ND	22.09	17.89	201364-4
	160CFΔ		75.57	51.82	17.45	A30231-ND	16.99	13.76	203743-4
Pin Hoods, External Closed-End — RoHS Compliant									
6	26	Aluminum Iridite	47.75	20.62	17.45	A30112-ND	19.74	15.98	201349-2
	34		57.15	25.4	17.45	A30113-ND	16.51	13.37	201350-2
	50	Nickel Plated Steel	72.26	25.4	17.45	A30118-ND	14.13	11.45	201390-5
	75		72.26	34.54	17.45	A30189-ND	11.57	9.37	201368-4
	104		76.84	45.72	17.45	A30111-ND	14.74	11.94	201346-4
	104CFΔ		77.22	34.04	18.24	A30216-ND	9.28	7.52	202119-2
	160CFΔ		76.84	53.34	17.45	A30140-ND	32.13	26.01	203744-4
Pin Hoods, External Open-End with Flanges — RoHS Compliant									
7	34	Nickel Plated Steel	73.02	22.63	17.45	A30130-ND	24.07	19.49	202095-5
	41		85.73	14.35	17.45	A30133-ND	19.07	15.44	202165-5
	50		88.09	22.63	17.45	A30131-ND	19.03	15.41	202096-5

Fig.	No. of Pos.	Material	Body Style	Dimensions (mm)				Digi-Key Part No.	Price Each		AMP Part No.
				A	B	C	D		1	100	
Two-Piece Shields, 180° Cable Exit											
8	20	Nickel Plated Steel	Short	13.21	39.67	46.10	33.02	A30233-ND◆	73.69	59.66	204087-1
	26		Long	16.26	41.28	62.31	50.04	A30123-ND◆	40.40	32.71	201576-2
	26		Short	16.26	41.28	45.24	33.02	A30155-ND◆	42.53	34.43	200514-2
	34		Long	21.03	50.80	62.31	49.2	A30200-ND◆	29.30	23.72	201571-2
	34		Short	21.03	50.80	44.83	31.75	A30157-ND	13.00	10.53	200517-2
	34		Short	21.03	50.80	44.83	31.75	A34339-ND◆	11.97	9.69	200517-9
	41		Long	13.08	68.25	62.31	49.99	A30222-ND◆	59.09	47.84	202383-2
	41		Short	13.08	68.25	45.24	32.77	A30134-ND◆	49.77	40.29	202383-1
	50		Long	21.03	65.86	62.69	50.04	A30119-ND◆	26.84	21.73	201443-2
	50		Short	21.03	65.86	45.62	32.77	A30159-ND◆	15.69	12.70	200532-2
	75		Long	30.35	69.27	84.51	71.04	A30225-ND◆	34.50	27.94	202713-2
	75		Short	30.35	69.27	67.44	53.98	A30224-ND◆	32.68	26.46	202713-1
	26	Anodized Aluminum	Long	16.26	41.28	62.31	50.04	A30122-ND◆	46.64	37.76	201576-1
	34		Long	21.03	50.80	62.31	49.2	A30199-ND◆	12.33	9.98	201571-1
	34		Short	21.03	50.80	44.83	31.75	A30156-ND◆	12.33	9.98	200517-1
	50		Short	21.03	65.86	45.62	32.77	A30158-ND◆	50.90	41.21	200532-1
	104	Nickel Plated Cast Alum.	Short	43.26	70.23	46.81	32.77	A30175-ND◆	91.88	74.38	201131-1
Two-Piece Shields, 90° Cable Exit — RoHS Compliant											
9	50	Nickel Plated Steel	Long	22.86	65.84	78.69	71.04	A30143-ND	148.37	120.11	203975-2
	50		Short	22.86	65.84	78.69	53.98	A30142-ND	80.96	65.54	203975-1
	75		Long	30.35	69.34	82.80	71.04	A30138-ND	49.31	39.92	202711-3
	75		Short	30.35	69.34	82.80	53.98	A30137-ND	54.14	43.83	202711-1
	104CFΔ		Short	29.08	72.26	85.73	60.33	A30135-ND	173.75	140.66	202395-1
One-Piece Shields, 180° Cable Exit — RoHS Compliant											
10	14	Nickel Plated Steel	Long	13.49	33.32	62.69	50.01	A30191-ND	10.25	8.30	201378-2
	14		Short	13.49	33.32	45.62	33.02	A30187-ND	12.87	10.43	201360-2
	20		Short	13.08	41.66	45.62	33.02	A30109-ND	57.29	46.38	201227-2
	26		Short	16.26	42.85	45.62	32.92	A30108-ND	30.72	24.88	201169-2
	34		Long	21.03	52.37	62.69	50.01	A30117-ND	32.21	26.08	201384-2
	34		Short	21.03	52.37	45.24	32.54	A30107-ND	47.63	38.56	201165-2
One-Piece Shields, 90° Cable Exit — RoHS Compliant											
—	34	Steel	Short	—	—	—	—	A30197-ND	25.01	20.25	201469-2
Two-Piece Shields, 45° Cable Exit — RoHS Compliant											
—	104CFΔ	Nickel Plated Steel	Short	—	—	—	—	A30217-ND	38.66	31.30	202169-1
	104CFΔ		Short	—	—	—	—	A30215-ND	39.59	32.05	202110-1
	160CFΔ		Short	—	—	—	—	A30227-ND	71.46	57.86	202798-1

Strain Relief Hardware

No. of Positions	Cable Opening L x W (mm)	Body Style	Digi-Key Part No.	Price Each		AMP Part No.
				1	100	
Cable Clamps						
6	7.75 x 3.94	Short	A30230-ND◆	13.46	10.90	203432-1
14	13.46 x 8.51	Long	A30205-ND	10.58	8.57	201843-1
14	13.46 x 8.51	Long	A33432-ND◆	9.62	7.79	201843-3
14	13.46 x 8.51	Short	A30160-ND	13.99	11.33	200686-1
20	19.81 x 8.51	Short	A30178-ND	18.63	15.08	201237-1
26	19.81 x 12.83	Long	A30206-ND	10.98	8.90	201845-1
26	19.81 x 12.83	Long	A33435-ND◆	10.98	8.90	201845-2
26	19.81 x 10.92	Short	A30110-ND	20.31	16.44	201229-1
34	19.81 x 12.7	Long	A30207-ND	14.87	12.04	201846-1
34	19.81 x 10.8	Short	A30177-ND	9.49	7.69	201224-1
34	19.81 x 10.8	Short	A33437-ND◆	8.61	6.97	201224-7
41	38.1 x 9.14	Long	A30124-ND◆	38.98	31.56	201766-1
50	28.58 x 17.15	Long	A30208-ND◆	15.02	12.16	201847-1
50	28.58 x 13.97	Short	A30176-ND	15.06	12.19	201182-1
50	28.58 x 13.97	Short	A33438-ND◆	13.69	11.09	201182-4
75	28.58 x 23.5	Long	A30209-ND	14.60	11.82	201848-1
75	28.58 x 23.5	Long	A33439-ND◆	13.25	10.73	201848-5
75	28.58 x 20.32	Short	A30161-ND	12.03	9.75	200730-1
104	28.58 x 31.37	Long	A30126-ND	52.58	42.57	201849-1
104	28.58 x 31.37	Long	A33441-ND◆	47.75	38.66	201849-3

◆ ***RoHS Compliant*** Δ CF = Center Fastener ◊ Long-Long Turnable Jackscrews are used only with Two-Piece Shields on the connector sizes listed. ‡ Single female latch, two must be ordered per assembly. § Without Spacers † Two long pins are to be installed in diagonal corners. Use without guide sockets.

(Continued)

Fastening Hardware

Style	Standard Connectors Used	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Turnable Jackscrews, 6-32 Double Lead Thread					
Long-Long Male	50, (90° shield only) 75 and 104	A30211-ND◊◆	6.13	4.97	201911-1
Long-Long Female		A30210-ND◊◆	8.51	6.89	201910-1
Long Male	20, 26, 34, 41 and 50	A30168-ND◆	3.38	2.74	200871-1
Long Male		A34341-ND◆	3.38	2.74	1-200871-0
Long Female		A30165-ND	3.13	2.54	200867-1
Long Female		A34340-ND◆	3.13	2.54	1-200867-1
Short Male	6, 14, 20, 26, 34, 41, 50, 75 and 104	A30166-ND◆	3.80	3.08	200868-1
Short Female		A30167-ND◆	3.38	2.74	200870-1
Short-Short Male	6, 14, 20, 26, 34, 41, 50, 75 and 104	A30192-ND◆	4.10	3.32	201388-1
Short-Short Female		A30193-ND◆	3.13	2.54	201389-1
Fixed Jackscrews — Double Lead Thread					
Male	—	A30169-ND	2.12	1.72	200874-1
Male	—	A33442-ND◆	1.93	1.57	1-200874-2
Female	—	A30170-ND	2.73	2.21	200875-1
Female	—	A33443-ND◆	2.48	2.01	200875-7
Turnable Jackscrews, 6-32 Single Lead Thread					
Long-Long Male	50, (90° shield only) 75 and 104	A30145-ND◊◆	6.34	5.14	207234-1
Long-Long Female		A30146-ND◊◆	6.03	4.88	207235-1
Long Male	20, 26, 34, 41 and 50	A30194-ND	3.57	2.89	201413-1
Long Male		A34342-ND◆	3.57	2.89	201413-4
Long Female		A30195-ND	3.57	2.89	201414-1
Long Female		A34343-ND◆	3.70	3.00	201414-4
Short Male	6, 14, 20, 26, 34, 41, 50, 75 and 104	A30105-ND◆	7.85	6.36	201087-1
Short Female		A30106-ND◆	5.99	4.85	201088-1
Short-Short Male	6, 14, 20, 26, 34, 41, 50, 75 and 104	A30203-ND◆	4.28	3.47	201827-1
Short-Short Female		A30204-ND◆	3.36	2.72	201828-1
Fixed Jackscrews — Single Lead Thread					
Male	—	A30174-ND	2.14	1.74	201092-1
Male	—	A33444-ND◆	1.95	1.59	201092-4
Female	—	A30173-ND	2.39	1.94	201089-1
Female	—	A33445-ND◆	2.18	1.77	201089-4
Assembly Tool for Roll Pins		A30149-ND	347.63	—	91016-2
Locking Springs — RoHS Compliant					
Male	6, 14, 20 and 41	A30212-ND	1.79	1.45	201921-1
Female		A30213-ND	1.66	1.35	201922-1
Male	26	A30128-ND	7.85	6.36	201923-1
Female		A30127-ND‡	2.84	2.30	201918-1
Male	34 and 50	A30214-ND	3.21	2.61	201925-1
Female		A30129-ND	3.68	2.98	201926-1

Guide Hardware

Type	Standard Connectors Used	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Center Pin	6,14,20,26 34, 41, 50, 75 and 104	A30152-ND◆	3.09	2.50	200389-2
Center Socket		A30153-ND	3.49	2.83	200390-2
Center Socket		A33446-ND◆	3.17	2.57	200390-9
Corner Pin	34 and 50	A30162-ND	3.32	2.69	200833-2
Corner Pin		A33447-ND◆	3.00	2.44	1-200833-1
Corner Socket		A30163-ND	3.44	2.79	200835-2
Corner Socket		A33448-ND◆	3.13	2.54	1-200835-1
Corner Socket		A30141-ND◆	14.83	12.01	203964-1
Corner Pin	75, 104, and 160CF*	A30171-ND	3.32	2.69	201046-2
Corner Pin		A33449-ND◆	3.00	2.44	1-201046-2
Corner Socket		A30172-ND◆	3.49	2.83	201047-2
Corner Socket		A30232-ND◆	12.52	10.14	203966-1
Corner Pin	104CF*	A30219-ND	8.95	7.25	202173-5
Corner Pin		A33450-ND◆	8.13	6.58	202173-8
Corner Pin		A30218-ND§	5.86	4.75	202173-1
Corner Pin		A33451-ND§◆	5.33	4.32	202173-7
Corner Socket		A30220-ND	5.99	4.85	202174-1
Corner Socket		A33452-ND◆	5.44	4.41	202174-5
Corner Socket		A30221-ND§◆	5.33	4.32	202174-4
Corner Socket		A30144-ND◆	11.21	9.08	204099-2
Long Pin		A30121-ND†◆	12.18	9.86	201540-1
Tool, Nut Driver (4-40)		A30147-ND	43.14	—	811262-1
Tool, Nut Driver (6-32)		A30148-ND	71.09	—	811262-2

Tools

Description	Digi-Key Part No.	Price Each	AMP Part No.
Series 1 Contacts			
Hand Tool, Pro-Crimper,Handle Only, without Dies	A9996-ND	66.00	354940-1
Die Set CPC Conn	A9919-ND	103.50	58495-2
Contact Extraction Tool	A1329-ND	12.60	305183
Crimp Tool, Pro-Crimper II with Dies	A9920-ND	145.50	58495-1
Crimp Tool, 26-24 AWG, Certified – Crimp	A9951-ND	519.12	91515-1
Crimp Tool, 24-20 AWG, Certified – Crimp	A9839-ND	519.12	91523-1
Crimp Tool, Ratcheting 18-16 AWG	A9841-ND	468.14	91505-1

◆ ***RoHS Compliant*** ∆ CF = Center Fastener ◊ Long-Long Turnable Jackscrews are used only with Two-Piece Shields on the connector sizes listed. ‡ Single female latch, two must be ordered per assembly. § Without Spacers
† Two long pins are to be installed in diagonal corners. Use without guide sockets.

Contacts

CONTACT FINISH: A: Selective gold with 30µ gold on electrical engagement area over 50µ nickel on entire contact. **B:** Duplex plated 30µ gold in mating area over 50µ nickel on contact body; bright tin-lead on solder tab. **F:** Bright tin-lead on entire contact.

Description	Wire Size AWG	Insulation Diameter Inch	Contact Finish	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Tape and Reel Pricing 4,000	AMP Part No.
Series 1 — Crimp													
Pin	30-26	.040 - .060	F	—	—	—	—	A25084CT-ND	64.64	296.26	—	—	66425-6
Socket			F	—	—	—	—	A25085CT-ND	71.51	327.77	A25085TR-ND	357.57/M	66424-6
Pin			A	A25092-ND◆	14.65	102.35	66429-4	A25092CT-ND◆	70.60	323.58	A25092TR-ND◆	353.00/M	66425-8
Socket			A	A25093-ND◆	23.02	160.77	66428-4	A25093CT-ND◆	87.72	402.06	A25093TR-ND◆	438.62/M	66424-8
Pin	26-24	.035 - .055	F	—	—	—	—	A1324CT-ND	38.52	176.55	—	—	66106-6
Pin			A	A1344-ND◆	8.71	60.81	66107-4	A1344CT-ND◆	61.13	280.17	A1344TR-ND◆	305.64/M	66106-8
Socket			A	A1345-ND◆	10.41	72.71	66109-4	A1345CT-ND◆	75.97	348.21	A1345TR-ND◆	379.86/M	66108-8
Pin	24-20	.040 - .080	A	A1342-ND◆	9.13	63.79	66103-4	A1342CT-ND◆	59.95	274.77	A1342TR-ND◆	299.75/M	66102-9
Socket			A	A1343-ND◆	10.92	76.28	66105-4	A1343CT-ND◆	72.02	330.11	A1343TR-ND◆	360.12/M	66104-9
Pin	24 -20	.080 -.100	A	A1648-ND◆	8.44	58.97	66400-4	A1648CT-ND◆	64.34	294.91	A1648TR-ND◆	321.72/M	66332-8
Socket			A	A1661-ND◆	7.86	54.91	66399-4	A1661CT-ND◆	79.76	365.59	A1661TR-ND◆	398.82/M	66331-8
Pin	18-16	.080 - .100	A	A1340-ND◆	9.15	63.94	66099-4	A1340CT-ND◆	64.55	295.87	A1340TR-ND◆	322.77/M	66098-9
Socket			A	A16080-ND◆	10.94	76.42	66101-4	A16080CT-ND◆	71.45	327.48	A16080TR-ND◆	357.26/M	66100-9
Pin	18-14	.080 - .100	A	A1650-ND◆	8.80	61.45	66361-4	A1650CT-ND◆	61.12	280.12	A1650TR-ND◆	305.58/M	1-66359-0
Socket			A	A1341-ND◆	9.83	68.67	66360-4	A1341CT-ND◆	79.61	364.90	A1341TR-ND◆	398.07/M	1-66358-0
Socket	18-14	.110 - .150	F	A25130-ND	7.29	50.92	66601-1	—	—	—	—	—	—
Pin			A	A25131-ND◆	8.74	61.02	66602-2	A25131CT-ND◆	64.37	295.01	A25131TR-ND◆	321.83/M	66597-2
Socket			A	A25012-ND◆	9.81	68.52	66601-2	A25012CT-ND◆	79.10	362.56	A25012TR-ND◆	395.52/M	66598-2
Series 1 — Solder Tab													
Pin	—	—	B	A16081-ND	24.81	173.30	202236-1	—	—	—	—	—	—

◆ ***RoHS Compliant***

.050" (1.27mm) Connectors

Fig. 1

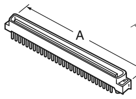

Fig. 2

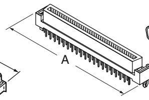

Fig. 3

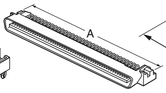

Fig. 4

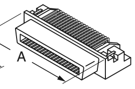

Housing & Tine Plate: Glass-filled nylon, rated 94V-0, black for standard, LCP, rated 94V-0, black for High Temperature. **Contacts:** Phosphor bronze, selectively plated with minimum of 30µ gold in mating area and tin-lead in solder tail area **Retention Leg (Board Lock):** Brass, tin-lead plated

Fig. 5 ***NEW!***

Housing: Polyester, Black, 94V-0. Connector will terminate .63 centerline flat ribbon cable, #30 AWG solid, PVC insulation.

Terminals: Phosphor bronze with 0.76µm minimum gold in contact area and 3.81µm minimum tin on terminating area, all over 1.27µm minimum nickel.

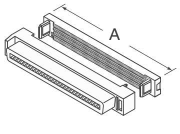

Fig. 6

Housing: Glass-filled polyester, rated 94V-0, black **Contacts:** Phosphor bronze, selectively plated with min. of 30µ gold in mating area and tin-lead in solder tail area **Retention Leg (Board Lock):** Brass, tin-lead plated

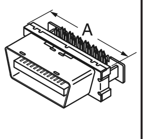

Fig. 7

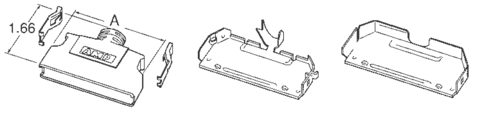

Enclosure: Polyester, rated 94V-0 **Shields:** Brass, nickel plated **Locking Spring:** Stainless Steel (Use with Fig. 6)

Fig. 8

Housing: Glass-filled polyester, rated 94V-0, black **Contacts:** Phosphor bronze, selectively plated with minimum of 30µ gold in mating area and tin-lead in solder tail area **Retention Leg (Board Lock):** Brass, tin-lead plated

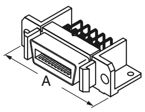

Fig. 9

Housing: LCP, rated 94V-0, black

Contacts: Phosphor bronze, selectively plated with minimum of 30µ gold in mating area and tin-lead in solder tail area

Shield: Carbon steel, tin-cobalt plated

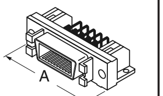

Fig. 10

Housing: Glass filled nylon, rated 94V-0, black **Contacts:** Phosphor bronze, selectively plated with minimum of 12µ gold in mating area and tin-lead in solder tail area **Shield:** Carbon steel, tin-cobalt plated

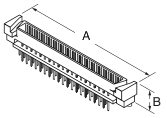

Fig. 11

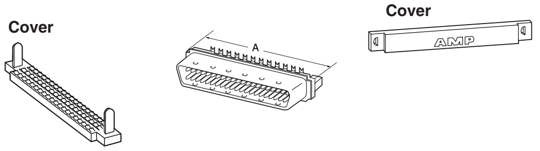

Housing and Covers: Thermoplastic, 94V-0 rated, black or gray **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 50µ tin-lead on termination end; all underplated 50µ nickel **Shell:** Steel, plated 20µ bright tin-lead over 50µ copper **Shell (RoHS Compliant):** Steel, plated 20µ tin-nickel over 150µ copper **Recommended Wire Size:** 28 AWG or 30 AWG, solid or stranded, with a .029-.036 (0.74-0.91) insulation diameter

Fig. 12

Housing and Covers: Thermoplastic, 94V-0 rated, black

Contacts: Phosphor bronze, duplex plated 30µ tin-lead on termination end; all underplated 50µ nickel

Shell: Steel, plated 200µ bright tin-lead over 50µ copper

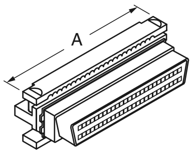

Fig. 13

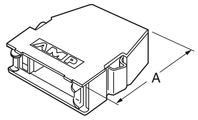

Fig. 14

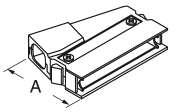

Fig. 15

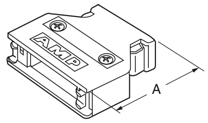

Backshell: Zinc, plated nickel over copper **Spring Latch:** Stainless steel **2-56 Screws:** Stainless steel **Strain Relief Staple:** Steel, plated tin-lead over nickel (Use with Fig. 13)

Fig. 16

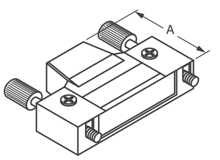

Backshell: Zinc, plated nickel over copper **Jackscrews:** Stainless steel or steel, black electroless nickel plated **Jackscrew Caps:** Polyolefin or PVC, black **2-56 and 4-40 Screws:** Stainless steel **Strain Relief Staple:** Steel, plated tin-lead over nickel (Use with Fig. 13)

Fig. 17

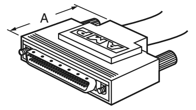

Backshell: Zinc **Boot:** PVC, Black **Jackscrews:** Stainless steel and PVC, black **Staple:** Carbon steel, plated 50µ tin-lead over 50µ nickel **2-56 Screws:** Stainless steel (Use with Fig. 13)

Fig. 18

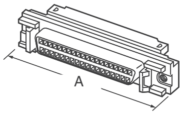

Fig. 19

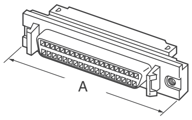

Fig. 20

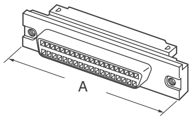

Covers: Thermoplastic, 94V-0 rated, black **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 50µ bright tin-lead in termination area, all underplated 50µ nickel

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
CHAMP® .050" (1.27mm) Series I (VESA Media Bus Standard)							
1	20	Vert. Plug with Locks, Standard	.949 (24.05)	A33453-ND◆	6.80	5.44	5-5175473-1
	40	Vert. Plug with Locks, High Temp.	1.447 (36.75)	A33454-ND◆	2.73	2.18	1734100-4
	50	Vert. Plug with Locks, Standard	1.697 (43.10)	A33455-ND◆	10.83	8.66	5-5175473-6
	68	Vertical Plug	2.147 (54.53)	A33456-ND◆	3.55	2.84	1734100-7
	80	Vert. Plug with Locks, Standard	2.447 (62.15)	A26154-ND	12.30	9.84	5-175473-9
	80	Vert. Plug with Locks, Standard	2.447 (62.15)	A33457-ND◆	11.50	9.20	5-5175473-9
	80	Vert. Plug with Locks, High Temp.	2.947 (74.85)	A31884-ND◆	3.45	2.76	1734100-8
	100	Vert. Plug with Locks, Standard	2.947 (74.85)	A33458-ND◆	15.70	12.56	6-5175473-0
	100	Vert. Plug with Locks, High Temp.	2.947 (74.85)	A33459-ND◆	4.60	3.68	1-1734100-0
2	80	Vert. Recept. with Locks, High Temp.	2.447 (62.15)	A31782-ND◆	3.15	2.52	1734101-8
	100	Vert. Recept. with Locks, Standard	2.947 (74.85)	A26158-ND	24.90	19.92	6-175475-0
	100	Vert. Recept. with Locks, Standard	2.947 (74.85)	A33460-ND◆	16.25	13.00	6-5175475-0
3	40	Right Angle Plug, Standard	1.391 (35.33)	A33461-ND◆	2.65	2.12	1734099-4
	50		1.641 (41.68)	A33462-ND◆	2.75	2.20	1734099-5
	68		2.091 (53.11)	A33463-ND◆	12.08	9.66	5-5175472-8
	68		2.091 (53.11)	A33464-ND◆	3.23	2.58	1734099-7
	80		2.391 (60.73)	A97695-ND◆ ***NEW!***	5.60	4.48	1734099-8
	100		2.891 (73.43)	A33465-ND◆	5.33	4.26	1-1734099-0
4	40	Right Angle Receptacle, High Temp.	1.391 (35.33)	A33466-ND◆	2.75	2.20	1734037-4
	50	Right Angle Receptacle, High Temp.	1.641 (41.68)	A33467-ND◆	2.98	2.38	1734037-5
	50	Right Angle Receptacle, Standard	1.641 (41.68)	A33468-ND◆	11.88	9.50	5-5175474-6
	60	Right Angle Receptacle, Standard	1.891 (48.03)	A97694-ND ***NEW!***	11.68	9.34	5-5175474-7
	80	Right Angle Receptacle, High Temp.	2.391 (60.73)	A33469-ND◆	3.78	3.02	1734037-1
	100	Right Angle Receptacle, High Temp.	2.891 (73.43)	A33470-ND◆	4.35	3.48	1-1734037-0
NEW! CHAMP® .050" (1.27mm) Series I (Blindmate) — RoHS Compliant NEW!							
2	40	Vert. Recept. with Locks, High Temp.	1.717 (43.60)	A97697-ND	7.33	5.86	787317-4
	80		2.717 (69.00)	A97701-ND	8.28	6.62	787311-4
4	20	R/A Recept. with Locks, High Temp.	1.716 (29.88)	A97698-ND	9.48	7.58	787653-3
NEW! CHAMP® .050" (1.27mm) Series I (Ribbon Cable)— RoHS Compliant NEW!							
5	68	Receptacle, Ribbon Cable	2.147 (54.53)	A97696-ND	5.38	4.30	1734098-7
CHAMP® .050" (1.27mm) Series II (Wire-To-Board)							
6	26	Plug Cable Connector	1.024 (26.00)	A32495-ND◆	7.28	5.82	2-5175677-4
	50		1.626 (41.30)	A32496-ND◆	11.03	8.82	2-5175677-7
7	26	Enclosure Kits	1.319 (33.50)	A26138-ND◆	5.68	4.54	176793-4
8	14	Right Angle Receptacle, Board Lock	1.163 (29.54)	A33471-ND◆	7.03	5.62	2-5178238-1
	20		1.313 (33.35)	A33472-ND◆	5.43	4.34	2-5178238-2
	26		1.463 (37.16)	A33473-ND◆	6.98	5.58	2-5178238-4
	50		2.063 (52.40)	A26142-ND	12.25	9.80	2-178238-7
	50		2.063 (52.40)	A33474-ND◆	11.48	9.18	2-5178238-7
	68		2.513 (63.83)	A33475-ND◆	12.63	10.10	2-5178238-8
9	14	Right Angle Receptacle, High Temp.	1.163 (29.54)	A26144-ND	7.73	6.18	557153-3
—	68	Right Angle Header, Board Lock	2.515 (63.90)	A33476-ND◆	44.46	37.05	2-5174225-5
CHAMP® .050" (1.27mm) FH Connectors							
10	80	Vert. Recept., 12mm, B=.38 (9.70)	2.453 (62.30)	A33477-ND◆	14.48	11.58	5176372-3
	80	Vert. Recept., 13mm, B=.42 (10.70)	2.453 (62.30)	A26147-ND	21.63	17.30	176373-3
	100	Vert. Recept., 16mm, B=.54 (13.70)	2.953 (75.00)	A26148-ND	20.45	16.36	176376-4
AMPLIMITE® .050" (1.27mm) Series (SCSI-2, SCSI-3, IPI-2, HIPPI)							
Cable Plug Connectors							
11	26	With Wire Lacing Term. Covers Black	.979 (24.87)	A31783-ND◆	8.33	6.66	5750913-2
	26	With Wire Lacing Term. Covers Gray	.979 (24.87)	A31784-ND◆	8.33	6.66	1-5750913-2
	50	With Wire Lacing Term. Covers Black	1.579 (40.11)	A33480-ND◆	8.23	6.58	5750913-5
	50	With Wire Lacing Term. Covers Gray	1.579 (40.11)	A3302-ND	7.75	6.20	1-750913-5
	50	With Wire Lacing Term. Covers Gray	1.579 (40.11)	A31785-ND◆	9.08	7.26	1-5750913-5
	68	With Wire Lacing Term. Covers Black	2.029 (51.54)	A31786-ND◆	7.03	5.62	5750913-7
	68	With Wire Lacing Term. Covers Gray	2.029 (51.54)	A31787-ND◆	6.90	5.52	1-5750913-7
	100	With Wire Lacing Term. Covers Gray	2.829 (71.86)	A23676-ND	31.53	25.22	1-750913-9
	100	With Wire Lacing Term. Covers Gray	2.829 (71.86)	A33481-ND◆	21.35	17.08	1-5750913-9
	26	Replacement Lacing Term. Cover Gray	.965 (24.51)	A23680-ND◆	1.40	1.12	1-750877-2
	50	Replacement Lacing Term. Cover Black	1.565 (39.75)	A23684-ND◆	.88	.70	750877-5
	50	Replacement Lacing Term. Cover Gray	1.565 (39.75)	A23681-ND◆	1.03	.82	1-750877-5
	68	Replacement Lacing Term. Cover Black	2.015 (51.18)	A23685-ND◆	.98	.78	750877-7
	68	Replacement Lacing Term. Cover Gray	2.015 (51.18)	A23682-ND◆	1.00	.80	1-750877-7
	100	Replacement Lacing Term. Cover Gray	2.815 (71.50)	A23683-ND◆	1.00	.80	1-750877-9
	20	With Assembled Terminal Covers	.829 (21.06)	A31788-ND◆	5.58	4.46	5749111-1
	26		.979 (24.87)	A33482-ND◆	7.58	6.06	1-5749111-0
	50		1.579 (40.11)	A33483-ND◆	5.53	4.42	5749111-4

◆ ***RoHS Compliant***

(Continued)

.050” (1.27mm) Connectors *(Cont.)*

Fig. 21

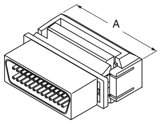

Covers: Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, duplex plated 30μ gold on mating end; 50μ bright tin-lead in termination area, all underplated 50μ nickel **Recommended Wire Size:** .025 (.64) centerline, 30 and 32 AWG solid or stranded, PVC, flat ribbon cable

Fig. 22

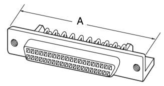

Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200μ bright tin over 50μ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30μ gold on mating end; tin-lead on solder end; all underplated 50μ nickel

Fig. 23

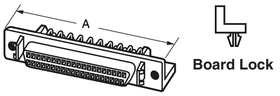

Housing: Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, duplex plated 30μ gold on contact area; tin-lead on solder area; all underplated 50μ nickel

Fig. 24

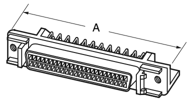

Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200μ bright tin over 50μ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30μ gold on mating end; tin-lead on solder end; all underplated 50μ nickel

Fig. 25

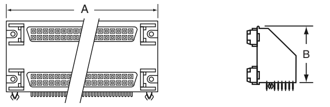

Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200μ bright tin over 50μ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30μ gold on mating end; 120μ tin-lead on solder end; all underplated 50μ nickel

Fig. 26

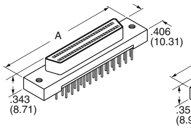

Fig. 27

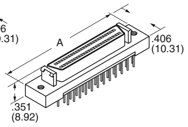

Fig. 28

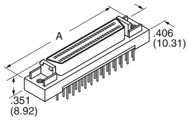

Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200μ bright tin over 50μ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30μ gold on mating end, 120μ (for .125) 150 (for .173) tin-lead on solder end; all underplated 50μ nickel

Fig. 29

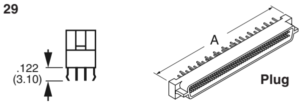

High density interface PCB mount connectors meet the requirements of Versa Module Europe (VME) bussing per SBus standards. Available in configurations for parallel board stacking as required by SBus specifications. **Housing:** Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, plated; 30μ gold on mating end, 150μ tin-lead on solder tail, all over 50μ nickel underplating

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
11	68	With Assembled Terminal Covers	2.029 (51.54)	A31789-ND◆	7.73	6.18	5749111-6
	80		2.329 (59.16)	A31790-ND◆	19.88	15.90	5749111-7
	100		2.829 (71.86)	A33484-ND◆	21.35	17.08	5749111-8
	120		3.329 (84.56)	A35099-ND◆	32.33	25.86	5749111-9
	26	With Unassembled Terminal Covers	.979 (24.87)	A23690-ND	7.93	6.34	749621-2
	26		.979 (24.87)	A31791-ND◆	5.58	4.46	5749621-2
	28		1.029 (26.14)	A31792-ND◆	10.98	8.78	5749621-3
	40		1.329 (33.76)	A31793-ND◆	5.58	4.46	5749621-4
	50		1.579 (40.11)	A31794-ND◆	5.13	4.10	5749621-5
	68		2.029 (51.54)	A31795-ND◆	5.58	4.46	5749621-7
	80		2.329 (59.16)	A31796-ND◆	16.70	13.36	5749621-8
	100		2.829 (71.86)	A23694-ND	21.03	16.82	749621-9
	100		2.829 (71.86)	A33485-ND◆	14.83	11.86	5749621-9
Shielded Receptacles — RoHS Compliant							
12	50	With Assembled Terminal Covers	1.579 (40.11)	A31799-ND	14.13	11.30	5749210-5
	68		2.029 (51.54)	A31800-ND	15.65	12.52	5749210-7
	50	With Unassembled Terminal Covers	1.579 (40.11)	A33486-ND	14.13	11.30	5749699-5
	68		2.029 (51.54)	A33487-ND	12.53	10.02	5749699-7
	100		2.829 (71.86)	A31801-ND	29.30	23.44	5749699-8
	68	With Lacing Terminal Covers	2.029 (51.54)	A33488-ND	8.55	6.84	5786860-7
Straight and Angled Exit RFI/EMI Shielded Backshell Kits							
13	20	Straight with Spring Latches	1.290 (32.77)	A33489-ND◆	10.48	8.38	5749190-1
	40			A33490-ND◆	10.33	8.26	5749192-1
	50	Straight w/ Spring Latches, ø.355 (9.02)	1.395 (35.43)	A23548-ND	9.45	7.56	749193-1
	50			A33491-ND◆	10.13	8.10	5749193-1
	50	Straight w/ Spring Latches, ø.400 (10.16)	1.395 (35.43)	A31802-ND◆	7.58	6.06	5749193-2
	68	Straight with Spring Latches	1.405 (35.69)	A3308-ND	11.70	9.36	749195-2
	68		1.405 (35.69)	A33492-ND◆	10.75	8.60	5749195-2
	80		1.600 (40.64)	A23549-ND◆	13.65	10.92	749196-2
	100		1.725 (43.82)	A33493-ND◆	15.88	12.70	5749197-1
14	20	Angled with Spring Latches	1.290 (32.77)	A23551-ND	11.00	8.80	749199-1
	20		1.290 (32.77)	A33494-ND◆	9.45	7.56	5749199-1
	26		1.290 (32.77)	A23590-ND	12.85	10.28	749609-1
	26		1.290 (32.77)	A33495-ND◆	11.05	8.84	5749609-1
	50		1.395 (35.43)	A23552-ND	13.98	11.18	749202-2
	50		1.395 (35.43)	A33496-ND◆	12.25	9.80	5749202-2
	68		1.405 (35.69)	A23585-ND	16.33	13.06	749204-1
	68		1.405 (35.69)	A33497-ND◆	14.05	11.24	5749204-1
	68		1.405 (35.69)	A23586-ND	16.53	13.22	749204-2
	68		1.405 (35.69)	A33498-ND◆	14.20	11.36	5749204-2
	80		1.600 (40.64)	A23587-ND	14.90	11.92	749205-1
	80		1.600 (40.64)	A33499-ND◆	15.50	12.40	5749205-1
	100		1.725 (43.82)	A33500-ND◆	17.48	13.98	5749206-1
15	26	Straight with Spring Latches	1.290 (32.77)	A23589-ND	7.00	5.60	749608-1
	26		1.290 (32.77)	A33501-ND◆	6.05	4.84	749608-2
	50		1.800 (45.72)	A33502-ND◆	7.40	5.92	5749889-3
Shielded Backshell Kits							
16	50	Straight with Male #2-56 Jackscrews	1.270 (32.26)	A23543-ND	16.20	12.96	749080-1
	50		1.270 (32.26)	A33503-ND◆	14.20	11.36	5749080-1
	100		1.695 (43.05)	A23544-ND	20.60	16.48	749081-1
	100		1.695 (43.05)	A33504-ND◆	17.73	14.18	5749081-1
	100		2.082 (52.88)	A33505-ND◆	17.73	14.18	5749854-1
	100	Straight w/ Female #4-40 Jackscrews	1.695 (43.05)	A35100-ND◆	18.05	14.44	5749081-2
17	68	Straight with Male #2-56 Jackscrews	1.887 (47.93)	A3309-ND	17.25	13.80	750752-1
		Straight with Male #2-56 Jackscrews		A33506-ND◆	14.80	11.84	5750752-1
		Straight w/ Female #4-40 Jackscrews		A33507-ND◆	16.35	13.08	5750752-2

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Panel Mount Receptacle Assemblies							
18	26	With Rails, 2-56 Threaded Holes	1.465 (37.21)	A31803-ND◆	13.78	11.02	1-749611-2
	50		2.065 (52.45)	A33508-ND◆	15.38	12.30	5-749611-5
19	50	Without Rails, 4-40 Threaded Holes Assembled Standard	2.065 (52.45)	A3313-ND	15.38	12.30	750640-1
				A33509-ND◆	15.38	12.30	5-750640-1
20	68	Without Rails, 2-56 Threaded Holes Assembled Standard	2.515 (63.88)	A23624-ND	18.58	14.86	749656-7
				A33510-ND◆	18.58	14.86	1-749656-2
	68	Without Rails and Latch Blocks	2.515 (63.88)	A26137-ND	18.58	14.86	749877-7
	68		2.515 (63.88)	A33511-ND◆	18.58	14.86	5-749877-7
	100		3.315 (84.20)	A23724-ND	29.70	23.76	749877-9
—	50	Without Rails and Latch Blocks, Plug	2.065 (52.45)	A23725-ND	18.38	14.70	749879-5
Unshielded Plug Assemblies and Backshell Kit							
21	68	Unshielded for .025 (0.64) Centerline Ribbon Cable	2.023 (51.30)	A23711-ND	3.23	2.58	786090-7
			2.023 (51.30)	A31805-ND◆	2.73	2.18	5786090-7
			2.028 (51.50)	A35101-ND◆	3.80	3.04	5390377-7
		Backshell Kit with Spring Latches for 68 Position Plug	2.415 (61.34)	A35102-ND◆	12.60	10.08	787032-7
Right Angle Receptacle Headers							
22	40	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	1.815 (46.10)	A31806-ND◆	6.78	5.42	5787170-4
	50	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.065 (52.45)	A31807-ND◆	7.30	5.84	5787170-5
		Without Rails, with Boardlocks, .120 (3.05) Solder Tails	2.065 (52.45)	A23728-ND	15.05	12.04	787362-5
	68	Without Rails, without Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A23729-ND	6.78	5.42	787169-7
				A33512-ND◆	6.33	5.06	5787169-7
		Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A31808-ND◆	6.15	4.92	5787170-7
	100	Without Rails, without Boardlocks, .100 (2.54) Solder Tails	3.315 (84.20)	A31809-ND◆	13.80	11.04	5787169-9
		Without Rails, without Boardlocks, .100 (2.54) Solder Tails	3.315 (84.20)	A35092-ND◆	16.33	13.06	5787170-9
		Without Rails, with Boardlocks, .120 (3.05) Solder Tails	3.315 (84.20)	A31810-ND◆	15.18	12.14	5787362-9
23	26	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	1.465 (37.21)	A35093-ND◆	5.65	4.52	5787394-2
	28	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	1.515 (38.48)	A23731-ND	8.85	7.08	787082-3
				A31811-ND◆	8.28	6.62	5787082-3
	50	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.065 (52.45)	A31812-ND◆	3.80	3.04	5787082-5
				A3317-ND	8.33	6.66	787394-5
		Without Rails, with Boardlocks, .100 (2.54) Solder Tails, 4-40 Threaded Holes	2.065 (52.45)	A31813-ND◆	5.80	4.64	5787395-5
	68	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A3321-ND	6.53	5.22	787082-7
				A31814-ND◆	7.30	5.84	5787082-7
		Without Rails, without Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A3322-ND	10.80	8.64	787394-7
				A33513-ND◆	9.73	7.78	5787394-7
	80	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.815 (71.50)	A35094-ND◆	12.00	9.60	5787394-8
	100	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	3.315 (84.20)	A35091-ND	20.23	16.18	1-787082-8
24	26	With Rails, with Boardlocks	1.465 (37.21)	A23733-ND	7.38	5.90	787171-2
	26		1.465 (37.21)	A33514-ND◆	6.88	5.50	1761028-1
	40		1.815 (46.10)	A31815-ND◆	8.15	6.52	1761028-2
	50		2.065 (52.45)	A31816-ND◆	6.88	5.50	1761028-3

◆ ***RoHS Compliant***

(Continued)

.050” (1.27mm) Connectors *(Cont.)*

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
24	50	With Rails, with Boardlocks, 4-40 Threaded Holes	2.065 (52.45)	A31819-ND◆	10.98	8.78	5787266-5
	50	With Rails, without Boardlocks	2.065 (52.45)	A31817-ND◆	6.68	5.34	5787190-5
	68	With Rails, without Boardlocks	2.515 (63.88)	A23736-ND	13.53	10.82	787190-7
	68	With Rails, without Boardlocks	2.515 (63.88)	A33515-ND◆	10.20	8.16	5787190-7
	68	With Rails, with Boardlocks	2.515 (63.88)	A3323-ND	8.40	6.72	787171-7
	68	With Rails, with Boardlocks	2.515 (63.88)	A33516-ND◆	7.83	6.26	1761028-4
	80	With Rails, without Boardlocks	2.815 (71.50)	A31818-ND◆	14.23	11.38	5787190-8
	100	With Rails, with Boardlocks	3.315 (84.20)	A35090-ND◆	21.28	17.02	1761028-5
25	50/50	Right Angle Stacked with Rails, B: .906 (23.01)	2.065 (52.45)	A31820-ND◆	24.53	19.62	5787656-1
	68/68	Right Angle Stacked with Rails, B: 1.156 (29.36)	2.515 (63.88)	A23738-ND A33517-ND◆	44.25 40.18	35.40 32.14	787678-1 5787678-1
		Right Angle Stacked with Rails, Flat Top, B: 1.156 (29.36)	2.515 (63.88)	A23739-ND A33518-ND◆	47.08 42.73	37.66 34.18	787679-1 5787679-1
Vertical Receptacle Headers Without Rails and Latch Blocks							
26	50	.125 (3.18) Solder Tail	2.065 (52.45)	A31821-ND◆	10.68	8.54	5749070-5
	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A23741-ND	11.50	9.20	786555-5
	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A33519-ND◆	14.75	11.80	5786555-5
	68	.125 (3.18) Solder Tail	2.515 (63.88)	A31822-ND◆	7.98	6.38	5749070-7
	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A31823-ND◆	11.28	9.02	5786555-7
	68	.280 (7.11) ACTION PIN Tail	2.515 (63.88)	A23744-ND	22.88	18.30	786557-7
	68	.280 (7.11) ACTION PIN Tail	2.515 (63.88)	A33520-ND◆	14.53	11.62	5786557-7
	100	.125 (3.18) Solder Tail	3.315 (84.20)	A31824-ND◆	16.35	13.08	5749070-9
	100	.173 (4.39) ACTION PIN Tail	3.315 (84.20)	A23746-ND	33.08	26.46	786555-9
	100	.173 (4.39) ACTION PIN Tail	3.315 (84.20)	A33521-ND◆	30.95	24.76	5786555-9
Vertical Receptacle Headers Without Rails and With Latch Blocks							
27	28	.125 (3.18) Solder Tail	1.515 (38.48)	A23747-ND	10.20	8.16	749721-3
	28		1.515 (38.48)	A33522-ND◆	8.43	6.74	5749721-3
	50		2.065 (52.45)	A31825-ND◆	8.78	7.02	5749721-5
	68		2.515 (63.88)	A31826-ND◆	6.73	5.38	5749721-7
	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A35096-ND◆	11.63	9.30	5786155-5
	68		2.515 (63.88)	A23750-ND	10.90	8.72	786155-7
	68		2.515 (63.88)	A33523-ND◆	10.20	8.16	5786155-7
Vertical Receptacle Headers With Rails and Latch Blocks							
28	20	.173 (4.39) ACTION PIN Tail	1.315 (33.40)	A23751-ND	7.58	6.06	786554-1
	20	.173 (4.39) ACTION PIN Tail	1.315 (33.40)	A33524-ND◆	7.05	5.64	5786554-1
	26	.125 (3.18) Solder Tail	1.465 (37.21)	A23752-ND	7.30	5.84	749069-2
	26	.125 (3.18) Solder Tail	1.465 (37.21)	A33525-ND◆	6.80	5.44	5749069-2
	26	.173 (4.39) ACTION PIN Tail	1.465 (37.21)	A23753-ND	7.80	6.24	786554-2
	26	.173 (4.39) ACTION PIN Tail	1.465 (37.21)	A33526-ND◆	7.30	5.84	5786554-2
	40	.125 (3.18) Solder Tail	1.815 (46.10)	A35095-ND◆	11.75	9.40	5749069-4
	50	.125 (3.18) Solder Tail	2.065 (52.45)	A23754-ND	8.15	6.52	749069-5
	50	.125 (3.18) Solder Tail	2.065 (52.45)	A33527-ND◆	7.58	6.06	5749069-5
	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A31827-ND◆	9.40	7.52	5786554-5
	50	.280 (7.11) ACTION PIN Tail	2.065 (52.45)	A35098-ND◆	17.20	13.76	5786556-5
	68	.125 (3.18) Solder Tail	2.515 (63.88)	A23756-ND	9.38	7.50	749069-7
	68	.125 (3.18) Solder Tail	2.515 (63.88)	A33528-ND◆	8.78	7.02	5749069-7
	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A23757-ND	14.63	11.70	786554-7
	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A33529-ND◆	13.65	10.92	5786554-7
	80	.125 (3.18) Solder Tail	2.815 (71.50)	A29112-ND	19.17	15.98	749069-8
	80	.125 (3.18) Solder Tail	2.815 (71.50)	A33530-ND◆	20.16	16.80	5749069-8
	100	.125 (3.18) Solder Tail	3.315 (84.20)	A23759-ND	18.90	15.12	749069-9
	100	.125 (3.18) Solder Tail	3.315 (84.20)	A33531-ND◆	16.05	12.84	5749069-9
	100	.173 (4.39) ACTION PIN Tail	3.315 (84.20)	A35097-ND◆	23.40	18.72	5786554-9
SBUS Connectors							
29	96	Plug Header without Polarization	2.80 (71.00)	A23618-ND	14.13	11.30	174683-8
	96	Plug Header without Polarization	2.80 (71.00)	A33532-ND◆	13.23	10.58	5174683-8

◆ ***RoHS Compliant***

Right-Angle Headers – Shielded Slimline Connectors

Fig. 1

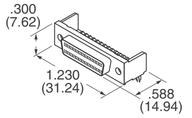

Fig. 2

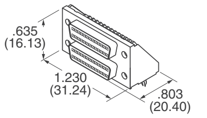

Housing: UL 94V-0 rated thermoplastic, black **Contact Footprints:** .100 x .050 (2.54 x 1.27) staggered centerlines **Bracket:** Zinc, plated 200µ minimum tin or tin-lead over 200µ minimum copper **Metal-Shell:** Carbon steel, plated 200µ minimum tin over 50µ minimum copper **Boardlocks:** Copper alloy, tin-lead plated **Contacts:** Phosphor bronze, duplex plated 30µ minimum gold on mating end, tin-lead plated 120µ minimum on solder end, all over 50µ minimum nickel

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	26	Receptacle	A31700-ND◆	33.15	20.77	5750823-1
2	26/26	Stacked Receptacle without Rear Contact Shield, Unkeyed	A31702-ND◆†	42.00	26.32	5786200-1
		Stacked Receptacle with Rear Contact Shield, Keyed	A31699-NDΔ◆	41.68	26.12	5750821-1
		Stacked Receptacle with Rear Contact Shield, Unkeyed	A23763-ND†	46.20	36.96	750820-1

◆ ***RoHS Compliant*** † Both headers unkeyed with 4-40 threaded holes
Δ Lower header unkeyed with 4-40 threaded holes, upper header keyed in keying position 1

Plug – Shielded Slimline Cable Connectors

Fig. 1

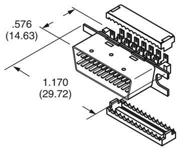

Covers: UL 94V-0 rated thermoplastic, black **Shell:** Steel, plated 200µ minimum bright tin-lead over 50µ minimum copper **Contacts:** Phosphor bronze, duplex plated 30µ minimum gold on mating end, 50µ minimum bright tin-lead on termination end, all underplated 50µ nickel **Bracket:** Zinc, plated 200µ minimum nickel over 200µ minimum copper **Recommended Wire Size:** 28 AWG, PVC or polyolefin insulation

Fig. 2 Connector shown partially assembled. Given dimensions reflect full assembly.

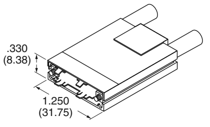

Backshell: Copper-nickel alloy **Jackscrews:** Steel, plated 100µ minimum tin over 50µ minimum copper, handles covered with ABS, gray **Inserts:** Zinc, plated 200µ minimum tin over 200µ minimum copper **Outside Covers:** Gray and black

Fig.	Description	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	Plug Connector	with maximum O.D. .032 (0.813)	A31701-ND◆	13.62	8.54	5750833-1
2	Backshell Kit, Unkeyed	.250 ~ .280 (6.35 ~ 7.11) .280 ~ .310 (7.11 ~ 7.87)	A23765-ND A23766-ND	21.48 17.33	17.18 13.86	750850-1 750850-3

◆ ***RoHS Compliant***

.050” X .050” Board to Connectors

Housing: Black glass filled thermoplastic, 94V-0 rated.
Contacts: Phosphor bronze (headers), beryllium copper (receptacles), both with duplex plated gold in mating area.

Header

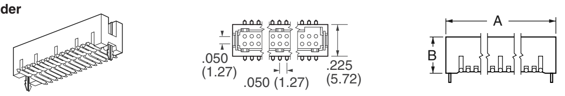

Receptacle

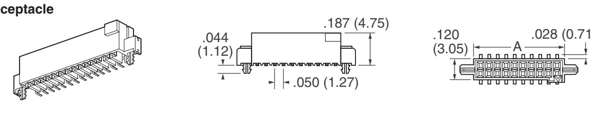

No. of Pos.	Dimension Inch (mm) A	Dimension Inch (mm) B (Mated Height)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Vertical Dual Row Surface Mount Headers						
20	.622 (15.80)	.250 (6.35)	A31866-ND◆	6.33	5.70	5-104655-3
50	1.372 (34.85)	.250 (6.35)	A3108-ND	11.04	9.94	104655-6
50	1.372 (34.85)	.250 (6.35)	A33533-ND◆	10.32	9.29	5-104655-6
70	1.872 (47.55)	.250 (6.35)	A3109-ND	12.54	11.29	104655-8
70	1.872 (47.55)	.250 (6.35)	A33534-ND◆	11.70	10.53	5-104655-8
100	2.622 (66.60)	.250 (6.35)	A3110-ND	10.17	9.16	1-104655-1
100	2.622 (66.60)	.250 (6.35)	A33535-ND◆	9.51	8.56	6-104655-1
20	.622 (15.80)	.320 (8.13)	A3111-ND	6.78	6.11	104656-2
20	.622 (15.80)	.320 (8.13)	A33536-ND◆	6.33	5.70	5-104656-2
30	.872 (22.15)	.320 (8.13)	A29138-ND	7.89	7.11	104656-3
30	.872 (22.15)	.320 (8.13)	A33537-ND◆	7.38	6.65	5-104656-3
40	1.122 (28.50)	.320 (8.13)	A29137-ND	9.93	8.94	104656-4
40	1.122 (28.50)	.320 (8.13)	A33538-ND◆	9.30	8.37	5-104656-4
50	1.372 (34.85)	.320 (8.13)	A3112-ND	11.04	9.94	104656-5
50	1.372 (34.85)	.320 (8.13)	A33539-ND◆	10.32	9.29	5-104656-5
70	1.872 (47.55)	.320 (8.13)	A3113-ND	11.82	10.64	104656-7
70	1.872 (47.55)	.320 (8.13)	A33540-ND◆	11.07	9.97	5-104656-7
100	2.622 (66.60)	.320 (8.13)	A3114-ND	10.17	9.16	1-104656-0
100	2.622 (66.60)	.320 (8.13)	A33541-ND◆	9.51	8.56	6-104656-0
20	.622 (15.80)	.390 (9.91)	A3115-ND	6.78	6.11	104693-2
20	.622 (15.80)	.390 (9.91)	A33542-ND◆	6.33	5.70	5-104693-2
50	1.372 (34.85)	.390 (9.91)	A3116-ND	10.71	9.64	104693-5
50	1.372 (34.85)	.390 (9.91)	A33543-ND◆	10.02	9.02	5-104693-5
70	1.872 (47.55)	.390 (9.91)	A3117-ND	12.54	11.29	104693-7
70	1.872 (47.55)	.390 (9.91)	A33544-ND◆	11.70	10.53	5-104693-7
100	2.622 (66.60)	.390 (9.91)	A3118-ND	10.32	9.29	1-104693-0
100	2.622 (66.60)	.390 (9.91)	A33545-ND◆	9.63	8.67	6-104693-0
Vertical Dual Row Surface Mount Receptacles						
10	.266 (6.75)	—	A29089-ND	4.00	3.63	104652-1
10	.266 (6.75)	—	A33546-ND◆	3.76	3.41	5-104652-1
20	.516 (13.11)	—	A3103-ND	5.14	4.66	104652-2
20	.516 (13.11)	—	A33547-ND◆	4.77	4.32	5-104652-2
30	.766 (19.46)	—	A29090-ND	6.47	5.86	104652-3
30	.766 (19.46)	—	A32568-ND◆	6.04	5.48	5-104652-3
50	1.266 (32.16)	—	A3104-ND	10.71	9.70	104652-5
50	1.266 (32.16)	—	A33548-ND◆	9.99	9.05	5-104652-5
60	1.516 (38.51)	—	A31854-ND◆	10.81	9.80	5-104652-6
70	1.766 (44.86)	—	A3105-ND	10.12	9.17	104652-7
70	1.766 (44.86)	—	A33549-ND◆	9.20	8.33	5-104652-7
80	2.016 (51.21)	—	A29092-ND	14.05	12.72	104652-8
80	2.016 (51.21)	—	A33550-ND◆	13.12	11.88	5-104652-8
100	2.516 (63.91)	—	A31855-ND◆	11.47	10.40	6-104652-0

◆ ***RoHS Compliant***

AMPMODU System 50 Cable to Board Connectors – .050” Spacing

Housing: Black thermoplastic, 94V-0 rated. **Contacts:** Copper alloy, plated gold in mating area.

Fig.	Description	No. of Positions	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Dual Row Receptacle, .025 “Ribbon Cable” — RoHS Compliant							
1	Receptacle IDC	10	.510 (12.95)	A31856-ND	4.58	4.16	2-111196-5
		20	.760 (19.30)	A31857-ND	5.19	4.71	1-111196-8
		24	.860 (21.84)	A31858-ND	8.67	7.85	2-111196-8
		26	.910 (23.11)	A31859-ND	9.20	8.33	2-111196-9
		30	1.010 (25.65)	A31860-ND	7.16	6.48	1-111196-9
		40	1.260 (32.00)	A31861-ND	8.67	7.85	2-111196-0
		50	1.510 (38.35)	A31862-ND	15.05	13.64	2-111196-1
		60	1.760 (44.70)	A31863-ND	17.41	15.77	2-111196-2
		80	2.260 (57.40)	A31864-ND	15.40	13.95	3-111196-3
		100	2.760 (70.10)	A31865-ND	18.34	16.61	2-111196-4
Dual Row (Figures 2 and 3 Mate with Figure 4)							
2	Protected, Right Angle Header	24	.730 (18.54)	A24196-ND	5.25	4.73	1-104069-2
		24	.730 (18.54)	A33551-ND◆	4.74	4.27	6-104069-2
		30	.880 (22.35)	A31867-ND◆	6.09	5.49	5-104069-5
		40	1.130 (28.70)	A31868-ND◆	8.88	8.00	5-104069-6
		50	1.380 (35.05)	A31869-ND◆	11.19	10.08	5-104069-2
		60	1.630 (41.40)	A31870-ND◆	13.44	12.10	5-104069-7
		80	2.130 (54.10)	A33552-ND◆	17.88	16.10	5-104069-3
		100	2.630 (66.80)	A3209-ND	32.82	29.54	1-104069-7
		100	2.630 (66.80)	A33553-ND◆	22.35	20.12	6-104069-7
3	Protected, Vertical Header	16	.530 (13.46)	A24198-ND	3.21	2.89	1-104068-0
		16	.530 (13.46)	A33554-ND◆	3.03	2.73	6-104068-0
		20	.630 (16.00)	A33555-ND◆	4.02	3.62	5-104068-1
		24	.730 (18.54)	A24832-ND	4.74	4.27	1-104068-1
		24	.730 (18.54)	A33556-ND◆	4.41	3.97	6-104068-1
		30	.880 (22.35)	A33557-ND◆	5.58	5.03	5-104068-3
		40	1.130 (28.70)	A3212-ND	11.91	10.72	104068-4
		40	1.130 (28.70)	A32570-ND◆	8.13	7.32	5-104068-4
		50	1.380 (35.05)	A31871-ND◆	10.17	9.16	5-104068-5
		60	1.630 (41.40)	A3214-ND	17.91	16.12	104068-6
		60	1.630 (41.40)	A33558-ND◆	11.88	10.70	5-104068-6
		68	1.830 (46.48)	A35051-ND◆	12.60	11.34	6-104068-8
		80	2.130 (54.10)	A33559-ND◆	16.26	14.64	6-104068-6
		100	2.630 (66.80)	A3215-ND	21.75	19.58	1-104068-7
		100	2.630 (66.80)	A33560-ND◆	20.34	18.31	6-104068-7
4	Vertical Receptacle	20	.544 (13.82)	A31872-ND◆	4.00	3.63	5-104078-1
		24	.644 (16.36)	A33561-ND◆	4.69	4.25	5-104078-9
		30	.794 (20.17)	A3217-ND	6.47	5.86	104078-4
		30	.794 (20.17)	A33562-ND◆	6.04	5.48	5-104078-4
		40	1.044 (26.52)	A31873-ND◆	8.06	7.30	5-104078-2
		50	1.294 (32.87)	A3219-ND	10.76	9.75	104078-5
		50	1.294 (32.87)	A31874-ND◆	10.07	9.12	5-104078-5
		60	1.544 (39.22)	A3220-ND	12.88	11.67	104078-6
		60	1.544 (39.22)	A33563-ND◆	11.71	10.61	5-104078-6
		80	2.044 (51.92)	A32571-ND◆	16.14	14.62	5-104078-7
		100	2.544 (64.62)	A3221-ND	31.59	28.61	104078-8
		100	2.544 (64.62)	A33564-ND◆	20.11	18.22	5-104078-8
Single Row							
5	Protected, Right Angle Thru-Hole Header	4	.330 (8.38)	A33565-ND◆	1.50	1.35	5-104074-7
		8	.530 (13.46)	A31851-ND◆	2.25	2.03	6-104074-0
		10	.630 (16.00)	A31852-ND◆	2.61	2.35	5-104074-1
		12	.730 (18.54)	A33566-ND◆	2.88	2.60	6-104074-1
		15	.880 (22.35)	A31853-ND◆	3.57	3.22	5-104074-3
		20	1.130 (28.70)	A0110-ND	7.71	6.94	104074-4
		20	1.130 (28.70)	A33567-ND◆	5.13	4.62	5-104074-4
6	Protected, Vertical, Thru-Hole Header	4	.330 (8.38)	A33568-ND◆	.87	.79	5-104071-7
		6	.430 (10.92)	A33569-ND◆	1.32	1.19	5-104071-8
		12	.730 (18.54)	A0102-ND	2.82	2.54	1-104071-1
		12	.730 (18.54)	A32569-ND◆	2.64	2.38	6-104071-1
		20	1.130 (28.70)	A0103-ND	4.74	4.27	104071-4
		20	1.130 (28.70)	A33570-ND◆	4.32	3.89	5-104071-4
		25	1.380 (35.05)	A33571-ND◆	6.09	5.49	5-104071-5

◆ *RoHS Compliant*

Fig. 1

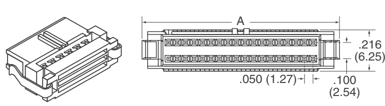

Fig. 2 **(Figures 2 & 3 mate with Figure 4)**

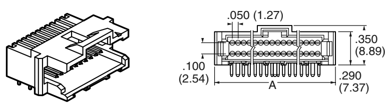

Fig. 3

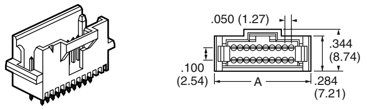

Fig. 4

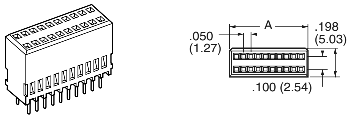

Fig. 5

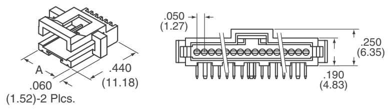

Fig. 6

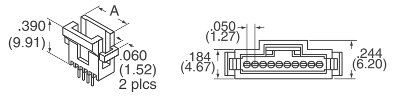

SMT Headers and Receptacles – .050” X .100”

Housing: Glass filled, black thermoplastic, 94V-0 rated. **Contacts:** Phosphor bronze, plated gold in mating area.

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Vertical Dual Row Surface Mount Headers					
20	.630 (16.00)	A31875-ND◆	4.02	3.62	5-104549-2
30	.880 (22.35)	A31876-ND◆	6.03	5.43	5-104549-5
40	1.130 (28.70)	A31877-ND◆	8.04	7.24	5-104549-6
50	1.380 (35.05)	A3256-ND	10.77	9.70	104549-7
50	1.380 (35.05)	A31878-ND◆	10.08	9.08	5-104549-7
100	2.630 (66.80)	A31879-ND◆	20.19	18.18	6-104549-0
Vertical Dual Row Surface Mount Receptacles					
20	.544 (13.82)	A3251-ND	4.51	4.08	104550-2
20	.544 (13.82)	A33572-ND◆	4.21	3.82	5-104550-2
30	.794 (20.17)	A3253-ND	6.76	6.12	104550-4
30	.794 (20.17)	A33573-ND◆	6.15	5.57	5-104550-4
40	1.044 (26.52)	A3255-ND	9.06	8.21	104550-5
40	1.044 (26.52)	A31880-ND◆	8.45	7.66	5-104550-5
50	1.294 (32.87)	A31881-ND◆	10.57	9.58	5-104550-6
100	2.544 (64.62)	A3261-ND	22.58	20.45	104550-9
100	2.544 (64.62)	A33574-ND◆	21.12	19.13	5-104550-9

◆ *RoHS Compliant*

Vertical Dual Row Surface Mount Receptacle

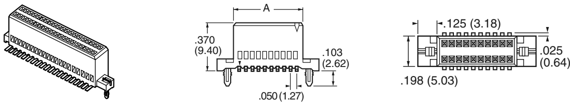

Vertical Dual Row Surface Mount Header

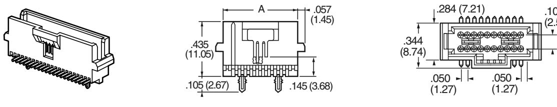

More Product Available Online: www.digikey.com

Toll-Free: 1-800-344-4539 • Phone 218-681-6674 • Fax: 218-681-3380

Tyco Electronics AMP

Authorized Distributor

Board to Board 2.50mm Mini-Match Connectors

Features: • Color: Green • Centerline: 2.50mm (0.098 inches) • Flammability Rating: UL 94V-0 • Contact Material: Brass • Contact Plating: Tin • Housing Material: Thermoplastic Polyester • PCB Mount **Specifications:** Current Rating: 3A @ 30°C

Fig.	No. of Contacts	Dimension L (mm)	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
			Vertical Headers				
1	3	7.5	A36388-ND	.52	.47	.38	5164713-3
	4	10.0	A36389-ND	.69	.63	.50	5164713-4
	5	12.5	A36390-ND	.87	.78	.63	5164713-5
	6	15.0	A36391-ND	1.29	1.17	.93	5164713-6
	7	17.5	A36392-ND	1.33	1.21	.96	5164713-7
	8	20.0	A36393-ND	1.50	1.36	1.08	5164713-8
	9	22.5	A36394-ND	1.56	1.41	1.13	5164713-9
	10	25.0	A36395-ND	1.73	1.56	1.25	1-5164713-0
	11	27.5	A36396-ND	2.06	1.86	1.48	1-5164713-1
	12	30.0	A36397-ND	2.08	1.88	1.50	1-5164713-2
			Right Angle Receptacles				
2	3	7.5	A36378-ND	.41	.37	.27	5164711-3
	4	10.0	A36379-ND	.54	.49	.35	5164711-4
	5	12.5	A36380-ND	.67	.62	.44	5164711-5
	6	15.0	A36381-ND	.81	.74	.52	5164711-6
	7	17.5	A36382-ND	1.13	1.02	.73	5164711-7
	8	20.0	A36383-ND	1.08	.98	.70	5164711-8
	9	22.5	A36384-ND	1.21	1.10	.78	5164711-9
	10	25.0	A36385-ND	1.46	1.33	.94	1-5164711-0
	11	27.5	A36386-ND	1.61	1.46	1.04	1-5164711-1
	12	30.0	A36387-ND	1.62	1.47	1.04	1-5164711-2

Fig. 1

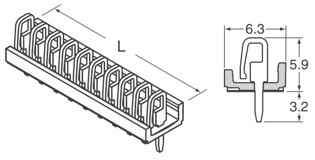

Fig. 2

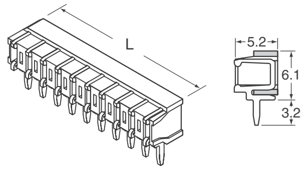

HRS HIROSE ELECTRIC CO.,LTD.

High Density I/O Connectors

DXM series high-density I/O connectors with bellow contacts have an interconnect design to ensure positive locking, effortless coupling, terminal protection and EMI reduction in a miniaturized and rugged package. DXM series offer one of the most varied and complete lines of High-Density connectors in the world.

Applications: Office, factory and home automation, computers, measurement, communication and control equipment, and other commercial applications needing high density interconnections.

Features: • 1.27mm (0.050") contact spacing conserves valuable board space and permits ultra-high density designs • Bellow contacts create smooth and precise mating • Unique shell design assures first make/last break grounding and overall noise protection • IDC termination allows quick and low cost termination to AWG #28 wires • Backshell and receptacle shell are made of diecast zinc alloy or stainless steel to reduce the penetration of external EMI noise • Overmold backshell provided for EDS protection is available in "one-touch" locking and "screw" locking • Termination methods are available in IDC, soldering, right angle dip, straight dip and SMT

Specifications: • Current capacity: 0.5A • Rated voltage: AC125V • Insulation resistance: 250MΩ minimum @ 100VDC • Withstanding voltage: AC 300Vr.m.s. for 1 minute

Fig.	No. of Contacts	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
1	14	17.09	H10049-ND◆	8.33	7.24	5.80	DX30AM-14P
	20	20.90	H10050-ND◆	8.40	7.11	5.33	DX30AM-20P
	26	24.71	H10001-ND◆	8.12	7.06	5.65	DX30AM-26P
	36	31.06	H10051-ND◆	9.50	8.26	6.61	DX30AM-36P
	50	39.95	H10052-ND◆	11.25	9.78	7.83	DX30AM-50P
	68	51.38	H10053-ND◆	13.98	12.94	10.84	DX30AM-68P
	80	59.00	H10054-ND◆	14.82	13.96	12.21	DX30AM-80P
	100	71.70	H10048-ND◆	15.30	14.40	12.60	DX30AM-100P
2	20	20.90	H10063-ND◆	10.19	8.86	7.09	DX40M-20P
	26	24.71	H10064-ND◆	11.09	9.64	7.72	DX40M-26P
	36	31.06	H10065-ND◆	10.98	10.16	8.51	DX40M-36P
	50	39.95	H10066-ND◆	12.78	11.83	9.91	DX40M-50P
	100	71.70	H10062-ND◆	19.20	18.56	16.64	DX40M-100P
3	14	29.54	H11339-ND◆	5.02	4.16	3.12	DX10G1M-14S(50)
	14	29.54	H10028-ND†	4.21	3.48	2.61	DX10G1M-14SE
	14	29.54	H11335-ND◆†	4.38	3.63	2.72	DX10G1M-14SE(50)
	20	33.35	H11333-ND◆	5.60	4.64	3.48	DX10GM-20S(50)
	20	33.35	H10036-ND	5.57	4.61	3.46	DX10GM-20SE
	20	33.35	H11330-ND◆	5.77	4.78	3.59	DX10GM-20SE(50)
	26	37.16	H11340-ND◆	5.48	4.54	3.41	DX10G1M-26S(50)
	26	37.16	H11336-ND◆†	4.58	3.80	2.85	DX10G1M-26SE(50)
	36	43.51	H11341-ND◆	5.89	4.88	3.66	DX10G1M-36S(50)
	36	43.51	H11337-ND◆†	6.55	5.43	4.07	DX10G1M-36SE(50)
	50	52.40	H11342-ND◆	6.82	5.64	4.23	DX10G1M-50S(50)
	50	52.40	H11338-ND◆†	6.12	5.07	3.80	DX10G1M-50SE(50)
	68	63.83	H11334-ND◆	8.12	7.06	5.65	DX10GM-68S(50)
	68	63.83	H11331-ND◆	9.18	7.98	6.39	DX10GM-68SE(50)
4	14	29.54	H11319-ND◆	8.81	7.46	5.60	DX20M-14S(50)
	20	33.35	H11320-ND◆	8.81	7.66	6.13	DX20M-20S(50)
	26	37.16	H10044-ND	9.02	7.84	6.28	DX20M-26S
	26	37.16	H11321-ND◆	9.34	8.12	6.50	DX20M-26S(50)
	36	43.51	H11322-ND◆	9.87	8.58	6.87	DX20M-36S(50)
	50	52.40	H10046-ND	10.51	9.14	7.32	DX20M-50S
	50	52.40	H11323-ND◆	10.88	9.46	7.57	DX20M-50S(50)
	68	63.83	H11324-ND◆	10.98	10.16	8.51	DX20M-68S(50)
5	68	63.83	H11316-ND◆	14.90	13.79	11.55	DX10BM-68S(50)
	80	71.45	H11317-ND◆	14.20	13.36	11.69	DX10BM-80S(50)
	100	84.15	H10023-ND	15.06	14.18	12.41	DX10BM-100S
	100	84.15	H11318-ND◆	15.64	14.72	12.88	DX10BM-100S(50)
6	100	—	H10024-ND	15.30	14.40	12.60	DX10BM-100SE
	100	—	H11328-ND◆	15.98	15.04	13.16	DX10BM-100SE(50)
7	100	84.15	H10022-ND	11.88	10.99	9.21	DX10AM-100SE2
	100	84.15	H11332-ND◆	12.30	11.38	9.54	DX10AM-100SE2(50)
	100	84.15	H11329-ND◆	12.76	11.81	9.89	DX10AM-100SE1(50)
8	68	63.83	H11325-ND◆	13.84	12.81	10.73	DX20BM-68S(50)
	80	71.45	H11326-ND◆	13.69	12.88	11.27	DX20BM-80S(50)
	100	84.15	H11327-ND◆	15.11	14.23	12.45	DX20BM-100S(50)
9	100	—	H10055-ND◆	11.72	10.85	9.09	DX30M-100-CV1
10	14	25.79	H10056-ND◆	5.25	4.35	3.26	DX30M-14-CV(10)
	20	29.60	H10057-ND◆	4.81	3.99	2.99	DX30M-20-CV(10)
	26	33.50	H10058-ND◆	5.48	4.54	3.41	DX30M-26-CV(10)
	36	39.80	H10059-ND◆	5.48	4.54	3.41	DX30M-36-CV(10)
	50	48.70	H10060-ND◆	6.99	5.79	4.34	DX30M-50-CV(10)
	68	60.13	H10061-ND◆	6.66	5.64	4.23	DX30M-68-CV(10)
11	50	—	H10067-ND◆	18.90	18.27	16.38	DX70M-50P(TB)CV

◆ ***RoHS Compliant*** † With Board Locks

Fig. 1 – Plug Discrete IDC

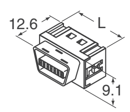

Fig. 2 – Plug Solder Type

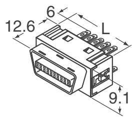

Fig. 3 – Board Lock Pin Harpoon Type

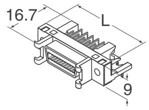

Fig. 4 – Receptacle Straight Type

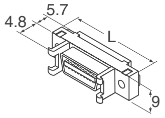

Fig. 5 – Board Screw on Type

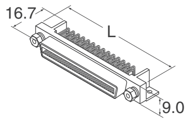

Fig. 6 – Board Lock Pin, Round Type

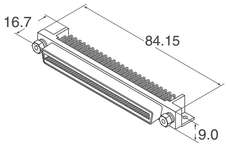

Fig. 7 – Board Lock Pin Harpoon Type

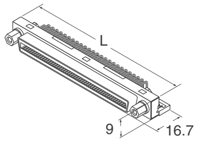

Fig. 8 – Receptacle Straight Type

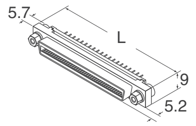

Fig. 9 – Backshell Stainless Steel

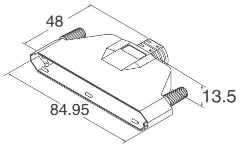

Fig. 10 – Backshell Plastic, Beige

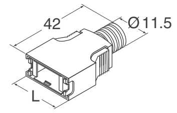

Fig. 11 – Terminator

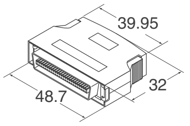

Rack and Panel Connectors — 516 Series

Features:
• UL Recognized • Plug and receptacle in 20, 38, 56, 90 or 120 contact sizes • Contact termination options include crimp, P.C. tail, wire hole and wire wrap • Mating and unmating simplified with use of actuating screws • Contacts suitable for either plug or receptacle
Specifications: • Insulator Material: Diallyl Phthalate, Color: Green, or Polycarbonate Color: Grey • Contact Material: Phosphor Bronze Alloy CA-510 • Contact Plating: Gold over nickel for entire contact • Cover Material: Die-cast zinc, finished with grey enamel paint • Current Rating: 8.5 Amperes • Contact Resistance: 10mΩ maximum • Dielectric Withstanding Voltage: 2000VAC rms at sea level • Insulation Resistance: 5000MΩ minimum • Operating Temperature: -65°C ~ 125°C • Insertion and Withdrawal Force: 2 ~ 16 oz. (0.56 ~ 4.45 N) per contact position

Dimensions in mm

Fig. 1 – 20 Pin Plug and Receptacle, Grey

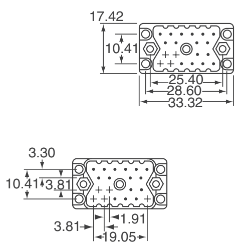

Fig. 2 – 38 Pin Plug and Receptacle, Grey

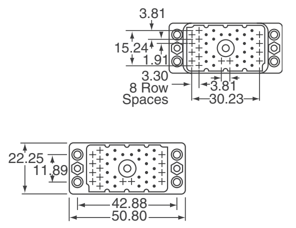

Fig. 3 – 56 Pin Plug and Receptacle, Grey

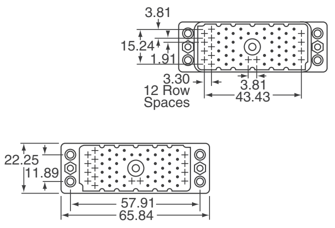

Fig. 4 – 90 Pin Plug and Receptacle, Grey

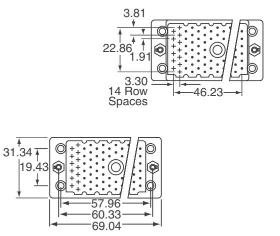

Fig. 5 – 120 Pin Plug and Receptacle, Green

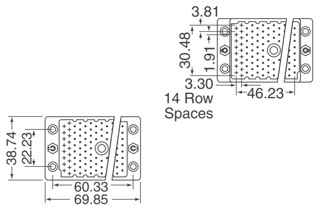

Fig. 6 – Metal Connector Cover

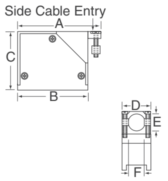

No. of Contacts	Dimensions - mm					
	A	B	C	D	E	F
20	39.09	33.66	23.01	17.42	11.33	12.45
38	56.03	50.95	39.78	22.23	18.29	14.61
56	71.17	66.09	39.78	22.23	18.29	14.61
90	79.20	69.04	45.09	31.34	22.35	22.86
120	80.65	69.85	51.31	38.89	22.61	27.43

Fig. 7 – Contacts

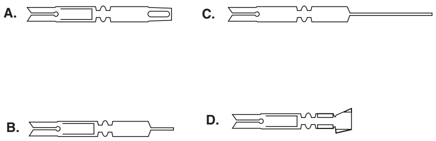

Fig.	No. of Contacts	Description	Digi-Key Part No.	Pricing 1	10	EDAC Part No.
1	20	Plug with Screw	151-1024-ND	11.16	99.00	516-020-000-301
	20	Plug with Nut	151-1025-ND	7.69	68.20	516-020-000-302
	20	Receptacle with Screw	151-1026-ND	10.08	89.38	516-020-000-401
	20	Receptacle with Nut	151-1027-ND	8.03	71.23	516-020-000-402
2	38	Plug with Screw	151-1028-ND	10.63	94.33	516-038-000-301
	38	Plug with Nut	151-1029-ND	7.69	68.20	516-038-000-302
	38	Receptacle with Screw	151-1030-ND	10.63	94.33	516-038-000-401
	38	Receptacle with Nut	151-1031-ND	7.69	68.20	516-038-000-402
3	56	Plug with Screw	151-1032-ND	10.97	97.35	516-056-000-301
	56	Plug with Nut	151-1033-ND	8.03	71.23	516-056-000-302
	56	Receptacle with Screw	151-1034-ND	10.97	97.35	516-056-000-401
	56	Receptacle with Nut	151-1035-ND	7.87	69.85	516-056-000-402
4	90	Plug with Screw	151-1036-ND	24.68	218.90	516-090-000-301
	90	Plug with Nut	151-1037-ND	9.61	85.25	516-090-000-302
	90	Receptacle with Screw	151-1038-ND	23.99	212.85	516-090-000-401
	90	Receptacle with Nut	151-1039-ND	9.77	86.63	516-090-000-402

Fig.	No. of Contacts	Description	Digi-Key Part No.	Pricing 1	10	EDAC Part No.
5	120	Plug with Screw	151-1040-ND	26.10	231.55	516-120-000-101
	120	Plug with Nut	151-1041-ND	12.71	112.75	516-120-000-102
	120	Receptacle with Screw	151-1042-ND	26.26	232.93	516-120-000-201
	120	Receptacle with Nut	151-1043-ND	13.21	117.15	516-120-000-202
6	—	Cover for 20 Position	151-1044-ND	18.45	163.63	516-230-520
	—	Cover for 38 Position	151-1045-ND	19.31	171.33	516-230-538
	—	Cover for 56 Position	151-1046-ND	21.05	186.73	516-230-556
	—	Cover for 90 Position	151-1047-ND	22.07	195.80	516-230-590
	—	Cover for 120 Position	151-1048-ND	23.50	208.45	516-230-512
7A	—	Solder Eyelet	151-1049-ND	—	2.48	516-290-500
7B	—	Soldertail	151-1050-ND	—	2.48	516-290-520
7C	—	Wirewrap	151-1051-ND	—	3.30	516-290-541
7D	—	Crimp Type	151-1052-ND	—	2.48	516-290-590
—	—	Crimp Tool	151-1058-ND	286.19	—	516-280-201
	—	Extraction Tool	151-1059-ND	117.74	—	516-280-300
	—	Insertion Tool	151-1124-ND	52.51	—	516-280-400

Telecom Connectors — B57 Series

Dim. in Inches (mm)

Specifications:
• Mate with other industry standard telecom connectors • Blue (50 pin) or black (64-pin) thermoplastic polyester • Contact Material: Phosphor Bronze • Contact Plating: Gold over nickel plate for the mating area • Shell Material: Nickel-plated steel • Operating Temperature: -55°C ~ 125°C • Current Rating: 2A • Contact Resistance: 30mΩ maximum • Insulator rated UL94 V-0 • Insulation Resistance: 5000MΩ minimum

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	EDAC Part No.
1	Receptacle, Vertical, 50-Pos., Pressfit	151-1096-ND	6.51	5.78	4.62	B57-050-220-202
	Receptacle, Vertical, 50-Pos., Thru-Hole	151-1097-ND	2.91	2.59	2.07	B57-050-221-202
2	Receptacle, Right Angle, 50-Pos., Thru-Hole	151-1098-ND	8.84	7.84	6.27	B57-050-260-202

Fig. 1

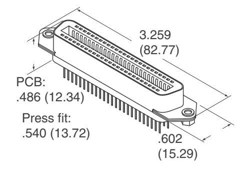

Fig. 2

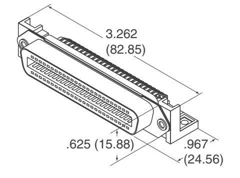

NEW! Rack and Panel Connectors

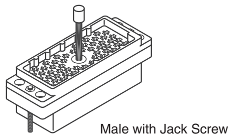
Male with Jack Screw

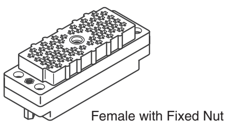
Female with Fixed Nut

Features:
• Insertable/Removable contacts • Exceptional versatility • Actuating screw facilitates mating and unmating – Locks mated connectors together • Plug and receptacle contacts are protected from mishandling • Guide pins and sockets ensure correct alignment when mating • UL recognized polyester material • CSA acceptable polyester material
Specifications:
• Current rating: 8A maximum • Contact resistance: 6mΩ maximum

No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
20	Male with Jack Screw	478-4829-ND	9.78	8.50	6.80	008016020000601
	Female with Fixed Nut	478-4830-ND	6.90	6.00	4.80	008016020000607
38	Male with Jack Screw	478-4831-ND	9.20	8.00	6.40	008016038000601
	Female with Fixed Nut	478-4832-ND	6.90	6.00	4.80	008016038000607
56	Male with Jack Screw	478-4833-ND	9.20	8.00	6.40	008016056000601
	Female with Fixed Nut	478-4834-ND	6.90	6.00	4.80	008016056000607
90	Male with Jack Screw	478-4835-ND	20.13	17.50	14.00	008016090000601
	Female with Fixed Nut	478-4836-ND	9.20	8.00	6.40	008016090000607

No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
120	Male with Jack Screw	478-4837-ND	21.85	19.00	15.20	008016120000601
	Female with Fixed Nut	478-4838-ND	11.50	10.00	8.00	008016120000607
	Contacts and Tools					
—	Crimp Contact, 25μ" Gold	478-4827-ND	.50	.35	.27	608017031300339
—	Crimp Tool	478-4828-ND		266.91/1		067852010000000
—	Extraction Tool	478-4839-ND		98.14/1		061877040000000
—	Insertion Tool	478-4840-ND		77.81/1		061742040000000

CHAMP® Parallel Interface Connectors

For Discrete Wire Termination

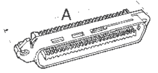

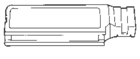
90° Strain Relief

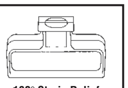
180° Strain Relief

No. of Pos.	Dimension A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
22 AWG, Solid or Stranded — RoHS Compliant						
14	1.750 (44.45)	Plug, Screw Lock	A24234-ND	4.20	3.36	552300-1
24	2.175 (55.25)	Plug, Screw Lock	A24235-ND	7.23	5.78	552301-1
	1.951 (49.56)	Plug, Bail Lock	A24236-ND	4.80	3.84	552317-1
36	2.462 (62.53)	Plug, Bail Lock	A24237-ND	3.85	3.08	552318-1
50	3.280 (83.31)	Plug, Screw Lock	A24238-ND	3.30	2.64	552173-1
	3.056 (77.62)	Plug, Bail Lock	A24239-ND	13.18	10.54	552319-1
	3.280 (83.31)	Receptacle, Screw or Bail Lock	A24240-ND	8.60	6.88	552064-1
64	3.875 (98.43)	Plug, Screw Lock	A24241-ND	5.28	4.22	552303-1
		Receptacle, Screw or Bail Lock	A24242-ND	4.93	3.94	552307-1
Large Insulation Wire Connectors, 22 AWG Solid or Stranded — RoHS Compliant						
50	3.280 (83.31)	Plug, Screw Lock	A24258-ND	5.95	4.76	556039-1
		Receptacle, Screw or Bail Lock	A24259-ND	5.08	4.06	555227-1
24 ~ 26 AWG, Solid or 24 AWG Stranded — RoHS Compliant						
14	1.750 (44.45)	Plug, Screw Lock	A24243-ND	4.10	3.28	552282-1
	1.526 (38.76)	Plug, Bail Lock	A24244-ND	7.53	6.02	552270-1
	1.750 (44.45)	Receptacle, Screw or Bail Lock	A24245-ND	3.68	2.94	552312-1
	1.750 (44.45)	Receptacle, Panel Mt., Screw or Bail Lock	A24246-ND	8.33	6.66	2-552271-1
24	2.175 (55.25)	Plug, Screw Lock	A24247-ND	5.05	4.04	552283-1
	1.951 (49.56)	Plug, Bail Lock	A1502-ND	4.28	3.42	552272-1
	2.175 (55.25)	Receptacle, Screw or Bail Lock	A24248-ND	5.58	4.46	552313-1
	2.175 (55.25)	Receptacle, Panel Mt., Screw or Bail Lock	A1508-ND	8.25	6.60	2-552273-1
36	2.685 (68.20)	Plug, Screw Lock	A24249-ND	3.80	3.04	552284-1
	2.462 (62.53)	Plug, Bail Lock	A1503-ND	4.19	3.35	552274-1
	2.685 (68.20)	Receptacle, Screw or Bail Lock	A24250-ND	7.73	6.18	552314-1
	2.685 (68.20)	Receptacle, Panel Mt., Screw or Bail Lock	A1509-ND	8.15	6.52	2-552275-1
50	3.280 (83.31)	Plug, Screw Lock, Thick Flange	A1540-ND	2.70	2.17	229974-1
	3.056 (77.62)	Receptacle, Screw Lock, Thick Flange	A1541-ND	2.57	2.06	229975-1
	3.280 (83.31)	Plug, Bail Lock	A1542-ND	2.64	2.12	552032-1
	3.280 (83.31)	Receptacle, Panel Mt., Screw or Bail Lock	A1543-ND	3.02	2.42	2-552001-1
64	3.875 (98.43)	Plug, Screw Lock	A24252-ND	4.55	3.64	552285-1
	3.651 (92.74)	Plug, Bail Lock	A24253-ND	4.90	3.92	552276-1
	3.875 (98.43)	Receptacle, Screw or Bail Lock	A24254-ND	5.63	4.50	552315-1
	3.875 (98.43)	Receptacle, Panel Mt., Screw or Bail Lock	A24255-ND	4.93	3.94	2-552277-1
26 ~ 28 AWG, Stranded — RoHS Compliant						
24	3.875 (98.43)	Plug, Screw Lock	A1530-ND	10.18	8.14	552443-1
	1.951 (49.56)	Plug, Bail Lock	A1531-ND	8.35	6.68	552469-
	3.875 (98.43)	Receptacle, Panel Mt., Screw or Bail Lock	A1533-ND	12.88	10.30	2-552474-1
36	2.462 (62.53)	Plug, Bail Lock	A1535-ND	7.78	6.22	552470-1
	2.685 (68.20)	Receptacle, Panel Mt., Screw or Bail Lock	A1537-ND	15.18	12.14	2-552475-1
	2.685 (68.20)	Plug, Screw Lock	A1534-ND	7.53	6.02	552444-1
50	3.280 (83.31)	Plug, Screw Lock, Thick Flange	A1544-ND	3.25	2.61	552390-1
		Receptacle, Screw Lock, Thick Flange	A1545-ND	3.23	2.58	552391-1
64	3.875 (98.43)	Plug, Screw Lock	A24256-ND	9.60	7.68	552488-1
Integral Locking Latch, Preassembled						
50	3.280 (83.31)	Receptacle, Black	A24262-ND	3.23	2.59	553921-1
	3.280 (83.31)	Receptacle, Black	A33575-ND◆	2.78	2.23	5553921-1
64	3.875 (98.43)	Receptacle	A24263-ND	6.18	4.94	554381-2
	3.875 (98.43)	Receptacle	A33576-ND◆	5.30	4.24	5554381-2
Accessories						
Dust Covers — RoHS Compliant						
24	—	Position, Receptacle, Red	A24285-ND	1.39	1.11	229969-4
36	—	Position, Receptacle, Red	A24286-ND	1.21	.97	229969-3
50	—	Position, Receptacle, Red	A24287-ND	.30	.15	229969-1
64	—	Position, Receptacle, Red	A24289-ND	.83	.67	229969-2
24	—	Position, Plug, Blue	A24192-ND	1.03	.83	229968-4
50	—	Position, Plug, Blue	A24194-ND	.19	.16	229968-1
64	—	Position, Plug, Blue	A24288-ND	.83	.67	229968-2
Hardware Kits — RoHS Compliant						
Screw Lock Hardware Kit			A33577-ND	3.08	2.46	5552568-1
Bail Lock Hardware Kit			A33578-ND	2.98	2.38	5552567-1
Bent Bail Lock Hardware Kit use with 90° Strain Relief Cover			A33579-ND	2.28	1.82	5552567-2
Tools						
Insertion Tool for CHAMP IDC Connector			A1528-ND	207.12	—	229764-2
T-Handle Wire Insertion Tool			A1529-ND	6.75	—	229384-1
Portable Hand Operated Tool (MI-1)			A24382-ND	1095.00	—	229378-1
Palm Grip Tool			A24383-ND	262.50	—	229451-1

◆ *RoHS Compliant*

No. of Positions	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Strain Relief Covers					
180° Snap-On — RoHS Compliant					
14	.175 - .220 (4.45 - 5.59)	A24264-ND	5.77	4.62	552079-1
	.265 - .310 (6.73 - 7.87)	A24265-ND	2.94	2.36	2-552079-1
24	.230 - .280 (5.84 - 7.11)	A24266-ND	2.17	1.74	552076-1
	.280 - .320 (7.11 - 8.13)	A1506-ND	5.74	4.59	1-552076-1
	.320 - .380 (8.13 - 9.65)	A24267-ND	2.52	2.02	2-552076-1
36	.290 - .360 (7.37 - 9.14)	A24268-ND	2.31	1.85	552073-1
	.360 -.430 (9.14 - 10.92)	A1507-ND	2.20	1.76	552073-5
	.430 - .500 (10.92 - 12.70)	A24269-ND	4.61	3.69	552073-6
50	.330 - .380 (8.38 - 9.65)	A24270-ND	2.97	2.38	3-552008-1
	.380 - .430 (9.65 - 10.92)	A24271-ND	1.83	1.47	2-552008-1
	.430 -.490 (10.92 - 12.45)	A1548-ND	2.35	2.10	552008-1
	.480 - .550 (12.19 - 13.97)	A24272-ND	2.11	1.69	4-552008-1
64	.480 - .540 (12.19 - 13.72)	A24274-ND	2.61	2.09	552082-1
90° Snap-On — RoHS Compliant					
14	.185 - .230 (4.70 - 5.84)	A24275-ND	3.60	2.89	552412-1
	.250 - .300 (6.35 - 7.62)	A24276-ND	1.92	1.54	1-552412-1
24	.250 - .300 (6.35 - 7.62)	A1538-ND	1.50	1.20	552413-1
	.305 - .360 (7.75 - 9.14)	A24277-ND	4.03	3.23	1-552413-1
36	.330 - .380 (8.38 - 9.65)	A24278-ND	2.96	2.37	3-552414-1
50	.340 - .400 (8.64 - 10.16)	A24279-ND	1.34	1.08	552014-1
	.315 - .415 (8.00 - 10.54)	A24280-ND	.94	.76	1-552011-1
	.415 - .465 (10.54 - 11.81)	A1549-ND	.63	.51	552011-1
	.475 - .540 (12.07 - 13.72)	A24281-ND	1.22	.98	552731-1

No. of Positions	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
64	.410 - .475 (10.41 - 12.07)	A24282-ND	1.28	1.03	552496-1
	.475 - .540 (12.07 - 13.72)	A24283-ND	1.81	1.45	1-552496-1
	.540 - .605 (13.72 - 15.37)	A24284-ND	1.81	1.45	2-552496-1

No. of Positions	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Cable to Panel Mount (2 required per assembly) — RoHS Compliant					
24	Snap-On	A24290-ND	1.54	1.24	1-552298-1
50	Snap-On	A24291-ND	.38	.31	1-552027-1
64	Snap-On	A24292-ND	.79	.64	1-552296-1

Vertical Mount

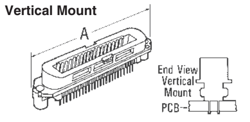

Edge Mount

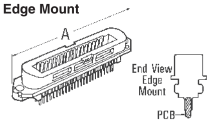

Right Angle

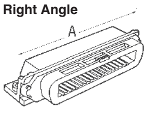

No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Vertical Mount Connectors						
14	1.750 (44.45)	Receptacle, Screw or Bail Lock	A26165-ND	12.80	10.24	552212-1
24	2.175 (55.25)	Receptacle, Screw or Bail Lock	A1510-ND	8.78	7.02	552224-1
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A1511-ND	10.85	8.68	552235-1
64	3.875 (98.43)	Plug, Screw Lock	A24351-ND	15.03	12.02	552243-1
		Receptacle, Screw or Bail Lock	A24352-ND	12.93	10.34	552246-1
Vertical Mount Connectors — RoHS Compliant						
14	1.750 (44.45)	Receptacle, Screw or Bail Lock	A31849-ND	11.98	9.58	5552212-1
24	2.175 (55.25)	Plug, Screw Lock	A31838-ND	10.08	8.06	5552221-1
		Receptacle, Screw or Bail Lock	A31828-ND	8.20	6.56	5552224-1
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A31829-ND	9.95	7.96	5552235-1
50	3.280 (83.31)	Plug, Screw Lock	A31833-ND	5.48	4.38	5552116-1
		Receptacle, Screw or Bail Lock	A31834-ND	5.55	4.44	5552118-1
64	3.875 (98.43)	Plug, Screw Lock	A31839-ND	14.03	11.22	5552243-1
		Receptacle, Screw or Bail Lock	A31840-ND	11.85	9.48	5552246-1
Edge Mount Connectors						
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A1513-ND	23.25	18.60	552241-1
Edge Mount Connectors — RoHS Compliant						
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A31830-ND	21.73	17.38	5552241-1
50	3.280 (83.31)	Receptacle, Screw or Bail Lock	A318335-ND	10.70	8.56	5552130-1
Edge Mount With ACTION PIN Connectors — RoHS Compliant						
36	2.685 (68.20)	Plug	A24388-ND	14.50	11.60	553444-3
		Receptacle	A24389-ND	10.95	8.76	553443-3
50	3.280 (83.31)	Receptacle	A24390-ND	5.78	4.62	553443-4
		Plug	A24392-ND	5.80	4.64	553444-4
		Receptacle, Self-Retained Terminals	A24393-ND	6.58	5.26	554753-1
		Plug, Self-Retained Terminals	A24394-ND	7.38	5.90	554758-1
		Receptacle, Shielded for Screw Lock	A24395-ND	11.95	9.56	557984-1
64	3.875 (98.43)	Plug	A24396-ND	15.73	12.58	554759-1
		Receptacle	A24397-ND	12.28	9.82	553443-5
Right-Angle Mount Connectors						
24	2.175 (55.25)	Receptacle, Standard, Self-Tapping	A24354-ND†	11.50	9.20	552791-1
36	2.685 (68.20)	Receptacle, Standard, Self-Tapping	A1515-ND	11.13	8.90	552742-1
50	3.280 (83.31)	Plug, Reverse, Self-Tapping	A24358-ND	9.15	7.32	552726-3
Right-Angle Mount Connectors — RoHS Compliant						
14	1.750 (44.45)	Receptacle, Standard, Self-Tapping	A31841-ND	20.38	16.30	5552738-1
24	2.175 (55.25)	Receptacle, Standard, Self-Tapping	A31831-ND	10.73	8.58	5552740-1
		Receptacle, Standard, Self-Tapping	A31842-ND†	10.73	8.58	5552791-1
		Plug, Standard, Self-Tapping	A31843-ND	18.45	14.76	5552741-1
		Receptacle, Standard	A31850-ND	19.55	15.64	5553121-1
36	2.685 (68.20)	Receptacle, Standard, Self-Tapping	A31832-ND	10.18	8.14	5552742-1
50	3.280 (83.31)	Plug, Standard, Self-Tapping	A31837-ND	8.55	6.84	5552726-1
		Receptacle, Standard, Self-Tapping	A31836-ND	8.50	6.80	5552725-1
		Receptacle, Reverse, Self-Tapping	A31844-ND	8.55	6.84	5552725-3
		Plug, Reverse, Self-Tapping	A31845-ND	8.55	6.84	5552726-3
		Receptacle, Standard, Thru-Bolt	A31846-ND	9.48	7.58	5552725-2
64	3.875 (98.43)	Receptacle, Standard, Self-Tapping	A31847-ND	11.35	9.08	5552744-1
		Plug, Standard, Self-Tapping	A31848-ND	21.65	17.32	5552745-1

† For IEEE-488 applications

No. of Pos.	Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
90° Slide-On Strain Relief Cover Kits and Accessories — RoHS Compliant						
50	.425 - .500 (10.80 - 12.70)	Tapered Cover Kit	A33580-ND	2.30	1.84	5552560-5
		Cable Clamp	A24342-ND	.26	.21	1-229910-1
	.350 - .425 (8.89 - 10.80)	Standard Cover Kit	A33581-ND	1.84	1.47	5552960-2
		Tapered Cover Kit	A33582-ND	.59	.48	5552560-1
	.500 - .550 (12.70 - 13.97)	Standard Cover Kit	A33583-ND	5.22	4.18	5552960-5
		Cable Clamp	A24346-ND	.58	.47	4-229910-1
	.425 - .550 (10.80 - 13.97)	90° Slide-On Cover	A24347-ND	.69	.55	552617-1
	.425 Max. (10.80)	Cover Slide-on Strain Relief	A24348-ND	.79	.64	552760-1
		Adjustable Cable Clamp	A24349-ND	.44	.36	552763-1
Hardware Kits						
Screw Lock Hardware Kit, Vertical Mount			A1523-ND	3.98	3.18	552563-1
Screw Lock Hardware Kit, Vertical Mount			A33584-ND◆	4.23	3.38	5552563-1
Bail Lock Hardware Kit, Vertical Mount			A33585-ND◆	2.30	1.84	5552562-1
J-Hook Screw Lock, Vertical Mount Kit			A33586-ND◆	5.40	4.32	5552690-1
Screw Lock Hardware Kit, Edge Mount			A33587-ND◆	8.28	6.62	5552675-1
Screw Lock Hardware Kit, Right Angle Mount			A33588-ND◆	1.98	1.58	5552631-1
Metric Front Mount Kit, Right Angle			A33589-ND◆	4.93	3.94	5552633-3
Metric Rear Mount Kit, Right Angle			A33590-ND◆	4.93	3.94	5552633-4
Bent Bail Lock, use with 90° Strain Relief			A33591-ND◆	4.88	3.90	5552561-4
Bail Lock, 90° Bail Clip			A24233-ND	3.23	2.58	552561-8
Accessories						
Metric Standoff Studs			A24381-ND◆	2.44	1.96	552634-3
Standoff Mounting Studs 4-40, Length .640 (16.26)			A24398-ND	.69	.56	229995-2
Standoff Mounting Studs 4-40, Length .640 (16.26)			A33593-ND◆	1.47	1.18	5229995-2
Standoff Mounting Studs 4-40, Length 1.000 (25.40)			A24399-ND◆	.96	.77	552113-1
4-40 Pan Head Screw - Length .425" (10.80)			A33594-ND◆	.13	.07	5229996-2
4-40 Pan Head Screw - Length .350" (8.89)			A33595-ND◆	.16	.08	5229996-3
J-Hook Latch for Panel Mount Receptacle to 90° Cable			A24386-ND◆	.63	.51	552655-1
4-40 Mounting Screw			A33596-ND◆	1.22/10		5229911-1
Screw Lock Boardmount, M2			A97699-ND◆ ***NEW!***	1.24	.99	787004-3

◆ *RoHS Compliant*

Tyco Electronics AMP
Authorized Distributor

CHAMP® Latch Parallel Interface and Ribbon Cable Connectors

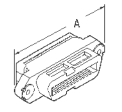
Receptacle

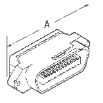
Plug

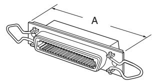
Shielded Receptacle

No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
CHAMP® Latch Low Profile Connectors - Plastic						
Screw Lock — RoHS Compliant						
14	1.750 (44.45)	Plug	A24213-ND	14.00	11.20	553596-1
14	1.750 (44.45)	Receptacle	A24214-ND	14.13	11.30	553597-1
24	2.175 (55.25)	Plug	A1559-ND	13.35	10.68	553598-1
24	2.175 (55.25)	Receptacle	A1561-ND	15.20	12.16	553599-1
36	2.685 (68.20)	Plug	A1563-ND	21.73	17.38	553600-1
36	2.685 (68.20)	Receptacle	A1565-ND	15.45	12.36	553601-1
50	3.280 (83.31)	Plug	A1567-ND	9.20	7.36	553602-1
50	3.280 (83.31)	Receptacle	A1569-ND	10.40	8.32	553603-1
64	3.875 (98.43)	Receptacle	A24190-ND	100.20	80.16	552838-1
Bail Lock — RoHS Compliant						
36	2.685 (68.20)	Plug	A1564-ND	13.85	11.08	554084-1
64	3.651 (92.74)	Plug	A24221-ND	98.78	79.02	552933-1
Panel Mount — RoHS Compliant						
24	2.175 (55.25)	Plug	A24215-ND	13.23	10.58	554103-1
24	2.175 (55.25)	Receptacle	A24216-ND	15.20	12.16	554088-1
36	2.685 (68.20)	Receptacle	A1566-ND	17.33	13.86	554089-1
50	3.280 (83.31)	Receptacle	A1570-ND	7.68	6.14	554090-1
64	3.875 (98.43)	Receptacle	A24191-ND	51.38	41.10	552843-1
Shielded CHAMP® Latch Panel Mount Connectors - Plastic						
Screw Lock, Preassembled						
24	2.205 (56.01)	Receptacle, 6-32	A1556-ND	18.53	14.82	554434-1
24	2.205 (56.01)	Receptacle, 6-32	A33597-ND◆	15.90	12.72	5554434-1
50	3.310 (84.07)	Receptacle, 4-40	A1557-ND	20.33	16.26	554436-2
50	3.310 (84.07)	Receptacle, 4-40	A33598-ND◆	17.48	13.98	5554436-2
Bail Lock, Preassembled — RoHS Compliant						
36	2.715 (68.96)	Receptacle, 4-40	A33599-ND	15.80	12.64	5554346-2
36	2.715 (68.96)	Receptacle, 4-40	A33600-ND†	15.80	12.64	5555983-1
50	3.310 (84.07)	Receptacle, 4-40	A24219-ND†	8.95	7.16	554902-1
Screw Lock, Loose Pieces						
24	2.380 (60.45)	Receptacle	A1558-ND	17.70	14.16	554349-1
24	2.380 (60.45)	Receptacle	A33601-ND◆	15.90	12.72	5554349-1
36	2.380 (60.45)	Receptacle	A33602-ND◆	16.13	12.90	5554348-1
Hardware Kits — RoHS Compliant						
Bail Lock, 4-40 UNC x .500"(12.70)			A33605-ND	2.25	1.80	5552561-3
Front Panel Mount Metric Screw Lock			A33606-ND	4.65	3.72	5553636-2
Rear Panel Mount Metric Screw Lock			A33607-ND	6.00	4.80	5553636-3
Shielded Screw Lock, Rear Mount 4-40			A33608-ND	5.08	4.06	5554272-1
Shielded Screw Lock, Rear Mount Metric			A1579-ND	2.87	2.30	554808-1
Accessories — RoHS Compliant						
Latch Cable Strain Relief Clip, 50 Pos. for Low Profile			A24227-ND	3.43	2.74	554099-1

◆ ***RoHS Compliant*** † Does not have boss feature. Boss is a .040" (1.02) shoulder on front of shield.

CHAMP® Connector Kits

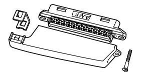

Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each		AMP Part No.
			1	25	
50 Position with Tapered Cover Solid and Stranded Kits					
0.550 max. (13.97)	Plug, Black	A33609-ND◆	4.48	3.58	5552382-1
	Receptacle, Black	A33610-ND◆	10.88	8.70	5552383-1
.350 - .425 (8.89 - 10.80)	Plug, Black	A33611-ND◆	3.26	2.61	5229912-1
	Receptacle, Black	A1572-ND	3.83	3.07	229913-1
	Receptacle, Black	A33612-ND◆	3.29	2.64	5229913-1
	Plug, Gray	A24326-ND	3.85	3.08	229912-4
	Plug, Gray	A33613-ND◆	3.63	2.90	5229912-4
	Receptacle, Gray	A33614-ND◆	3.63	2.90	5229913-4
	Plug with Dust Cover, Black	A33615-ND◆	3.48	2.79	1-5229912-1
	Receptacle with Dust Cover, Black	A24329-ND	4.05	3.25	1-229913-1
	Receptacle with Dust Cover, Black	A33616-ND◆	3.48	2.79	1-5229913-1
.425 - .500 (10.80 - 12.70)	Plug, Black	A24332-ND	3.85	3.08	2-229912-1
	Plug, Black	A33617-ND◆	3.70	2.96	2-5229912-1
	Receptacle, Black	A33618-ND◆	3.63	2.90	2-5229913-1
	Plug with Dust Cover, Black	A24334-ND	4.03	3.22	3-229912-1
	Plug with Dust Cover, Black	A33619-ND◆	3.83	3.06	3-5229912-1
	Receptacle with Dust Cover, Black	A33620-ND◆	4.28	3.42	3-5229913-1
.350 - .425 (8.89 - 10.80)	Plug, Black	A24336-ND	5.18	4.14	552402-1
	Plug, Black	A33621-ND◆	4.90	3.92	5552402-1
	Receptacle, Black	A33622-ND◆	6.60	5.28	5552403-1
50 Position CHAMP System 5 Connectors — RoHS Compliant					
.51 (12.95)	Plug, 24 AWG Solid, Red	A24365-ND	19.30	15.44	1-558693-1
.350 - .680 (8.89 - 17.27)	120° Strain Relief, Light Almond	A24366-ND	5.05	4.04	569336-1
	120° Strain Relief, Black	A24367-ND	2.75	2.20	569336-3
.650 - .750 (16.51 - 19.05)	90° Strain Relief, Lt. Almond Cover	A24368-ND	5.80	4.64	569335-1
50 Position CHAMP Connector With Crimp Cable Clamp — RoHS Compliant					
—	Wear Adapter (Plug to Recept. Assy.)	A24372-ND	29.20	23.36	552705-1

Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each		AMP Part No.
			1	25	
CHAMP-LOK Hardware Kits — RoHS Compliant					
—	Locking Latch, 36 or 50 Positions	A24338-ND	.44	.36	552723-1
—	Locking Latch, 14 or 24 Positions	A24339-ND	1.25	1.00	552723-2
Back-to-Back Connector Assembly — RoHS Compliant					
.380 - .400 (9.65 - 10.16)	24 AWG Cable to Cable Kit, 50 Pos.	A33624-ND	31.45	25.16	5553257-1
.300 - .375 (7.62 - 9.53)	Snap-on-Cover, 24 Position	A24375-ND	7.03	5.62	554831-1
50 Position Gender Menders — RoHS Compliant					
—	Receptacle without J-Hook Hardware	A33625-ND	41.88	33.50	5554875-2
—	Plug with J-Hook Hardware	A33626-ND	38.78	31.02	5554876-1
—	Plug with out J-Hook Hardware	A33627-ND	41.35	33.08	5554876-2

◆ ***RoHS Compliant***

CHAMP® Shielded Connectors

Terminals: Selectively plated gold over nickel plated high strength copper alloy, tin plated tails.
Housing & Cover Material: Thermoplastic, black

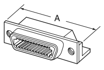
Screw-Lock

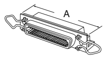
Bail Lock

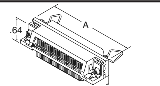
Board Lock Grounding

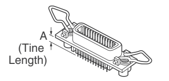
Vertical Mount

NEW!

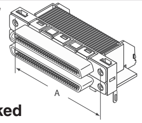
Stacked

Cable Connector Kits

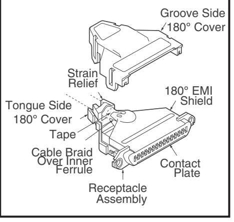

No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Right Angle, Preassembled Screw Lock						
24	2.205 (56.01)	Receptacle, Standard, 6-32	A15016-ND	12.05	9.64	553811-1
24	2.205 (56.01)	Receptacle, Standard, 6-32	A33628-ND◆	10.38	8.30	5553811-1
24	2.205 (56.01)	Receptacle, Reverse, 6-32	A24294-ND	42.30	33.84	553811-2
24	2.205 (56.01)	Receptacle, Reverse, 6-32	A97700-ND◆ ***NEW!***	36.35	29.08	5553811-2
50	3.305 (83.95)	Receptacle, Reverse, 4-40	A24295-ND	12.33	9.86	553813-4
50	3.305 (83.95)	Receptacle, Standard, 4-40	A15001-ND	10.20	8.16	553813-3
50	3.305 (83.95)	Receptacle, Standard, 4-40	A33631-ND◆	8.78	7.02	5553813-3
NEW! Right Angle, Stacked, Preassembled Screw Lock — RoHS Compliant NEW!						
68	1.484 (37.70)	Receptacle, M2	A97692-ND	31.03	24.82	5787962-1
Right Angle, Preassembled Bail Lock						
36	2.710 (68.83)	Receptacle, Standard, 4-40	A24298-ND	21.33	17.06	555233-1
36	2.710 (68.83)	Receptacle, Standard, 4-40	A33632-ND◆	22.18	17.74	5555233-1
50	3.305 (83.95)	Receptacle, Standard, 4-40	A33633-ND◆	11.08	8.86	5554901-1
Right Angle, Board Lock Grounding						
24	2.205 (56.01)	Screw Lock, 6-32, Standard	A24299-ND	11.75	9.40	554923-2
24	2.205 (56.01)	Screw Lock, 6-32, Standard	A33634-ND◆	10.08	8.06	5554923-2
24	2.205 (56.01)	Screw Lock, 6-32, Reverse	A24300-ND	15.38	12.30	554923-1
24	2.205 (56.01)	Screw Lock, 6-32, Reverse	A33635-ND◆	13.23	10.58	5554923-1
24	2.205 (56.01)	Screw Lock, 6-32, Low Pro., Reverse	A33636-ND◆	16.10	12.88	5555139-1
24	2.205 (56.01)	Screw Lock, 6-32, Low Profile, Std.	A24302-ND	47.23	37.78	555139-2
24	2.205 (56.01)	Screw Lock, 6-32, Low Profile, Std.	A33637-ND◆	41.33	33.06	5555139-2
36	2.715 (68.96)	Bail Lock, 4-40, Standard	A24303-ND	10.03	8.02	555119-1
36	2.715 (68.96)	Bail Lock, 4-40, Standard	A33638-ND◆	8.60	6.88	5555119-1
36	2.715 (68.96)	Bail Lock, 4-40, Standard	A33639-ND†◆	8.35	6.68	5555520-2
50	3.320 (84.33)	Screw Lock, 4-40, Standard	A24304-ND	16.75	13.40	557932-2
50	3.320 (84.33)	Screw Lock, 4-40, Standard	A33641-ND◆	14.43	11.54	5557932-2
50	3.320 (84.33)	Bail Lock, 4-40, Standard, Panel Mnt.	A33640-ND◆	11.75	9.40	5555057-1
50	3.310 (84.07)	Bail Lock, 4-40, Standard	A15005-ND	12.23	9.78	555149-1
50	3.310 (84.07)	Bail Lock, 4-40, Standard	A33642-ND◆	10.45	8.36	5555149-1
50	3.310 (84.07)	Bail Lock, 4-40, Reverse	A97693-ND◆ ***NEW!***	11.88	9.50	5555149-3
Vertical Mount						
24	.150 (3.81)	Screw Lock, 6-32	A24305-ND	17.70	14.16	554501-1
24	.150 (3.81)	Screw Lock, 6-32	A33643-ND◆	15.20	12.16	5554501-1
24	.215 (5.46)	Screw Lock, 6-32	A24306-ND	28.63	22.90	554501-2
36	.215 (5.46)	Bail Lock, 4-40	A33645-ND◆	13.05	10.44	5554145-4
50	.135 (3.43)	Bail Lock, 4-40	A33646-ND◆	12.68	10.14	5554216-3
50	.200 (5.08)	Screw Lock, 4-40	A24308-ND	15.48	12.38	554217-4
50	.200 (5.08)	Screw Lock, 4-40	A33647-ND◆	13.33	10.66	5554217-4
Hardware Kits — RoHS Compliant						
—	—	Vert. Mt., Pan Head Screws (2 req.)	A24309-ND	3.88	3.10	554043-2
—	—	Vert. Mt. Metric Standoff Screws (panhead screw and standoff)	A32497-ND	11.00	8.80	5554858-1

◆ ***RoHS Compliant*** † Has drawn metal shield

No. of Pos.	Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Cable Connector Kits						
Plug — Solid or Stranded — RoHS Compliant						
36	.250 - .500 (6.35 - 12.70)	Screw Lock, 24-26 AWG	A24313-ND‡	27.48	21.98	554951-2
		Bail Lock, 24-26 AWG	A24314-ND‡	10.70	8.56	554950-2
		Bail Lock, 26-28 AWG	A15010-ND‡	10.55	8.44	554950-1
50	.350 - .625 (8.89 - 15.88)	Screw Lock, 24-26 AWG	A24315-ND‡	8.35	6.68	554954-2
		Screw Lock, 26-28 AWG	A15012-ND‡	7.95	6.36	554954-1
		Bail Lock, 26-28 AWG	A15011-ND‡	6.00	4.80	554953-1
		Bail Lock, 24-26 AWG	A24316-ND‡	7.30	5.84	554953-2
		Bail Lock, 26-28 AWG	A29102-ND‡	12.06	9.65	5-554953-1
50	.370 max. (9.40)	Bail Lock, 90° Exit, Gray	A24319-ND‡	13.80	11.04	5-555012-2
Receptacle — Solid or Stranded — RoHS Compliant						
50	.350 - .625 (8.89 - 15.88)	Screw or Bail Lock, 26-28 AWG	A24318-ND‡	8.55	6.84	554955-1
Cover Kits and Accessories — RoHS Compliant						
24	—	180° Cover	A15013-ND	14.03	11.22	554944-1
50	—	180° Cover - Cab. dia. ≤ .500 (12.70)	A15015-ND	3.14	2.51	554946-1
50	—	180° Cover - Cab. dia. ≥ .500 (12.70)	A24320-ND	2.94	2.35	554946-2
—	—	Cap. Pan Head Screw, 4-40 (2 req.)	A33648-ND	.33	.17	5554726-1
—	—	Inner Ferrule .500 (12.7) Inside Dia.	A24323-ND	.40	.32	554725-6

‡ Cover sold separately

Tyco Electronics AMP

Authorized Distributor

1mm Card Edge Connectors Slot 1 / AGP / NLX

1mm Standard Edge Connectors have been developed specifically to meet the interconnection requirements for the latest technological advances in personal computers.

These include Intel's Pentium II™ processor (Slot 1), Accelerated Graphics Port (AGP), and the new NLX Form Factor motherboard.

FEATURES:

• 1mm contact spacing compatible with latest interconnection technology for Slot 1, AGP and NLX • High temperature housings suitable for surface mount reflow processes • Pivoting board lock feature offering connector centering before contacts enter PC board holes • Certified by Canadian Standards Association to Canadian and United States Requirements • Produced under a Quality Management System certified to ISO 9001

PERFORMANCE CHARACTERISTICS: • **Operating Temperature:** 0°C ~ 85°C • **Voltage:** 250VAC • **Characteristic Impedance:** 35<20<80Ω • **Termination Resistance:** 20mΩ maximum (initial) • **Insulation Resistance:** 1000MΩ minimum • **Dielectric Withstanding Voltage:** 400VAC @ sea level • **Durability:** 50 cycles minimum • **Engaging Force:** 3.3 oz. (.917 N) maximum average per contact pair • **Separating Force:** 1.98 ~ .35 oz. (.550 ~ .097N) per contact pair

Fig. 1

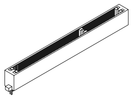

Fully compatible with Intel Pentium II processor module

Fig. 2

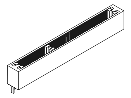

Brings high performance 3-D graphics and full motion video to the desktop

Fig. 3

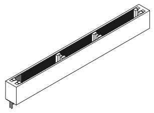

Riser Card Interconnect for new NLX Form Factor motherboard

Fig. 4

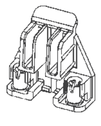

Complete 2 module kit. Required for one processor.

Fig. 5

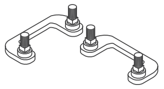

Housing: Nylon, black
Hardware: Brass, copper alloy finish

Fig. 6

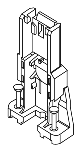

Fig. 7

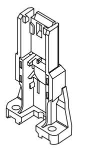

Fig. 8

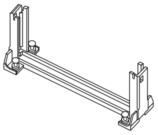

Fig. 9

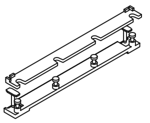

Fig.	Description	Solder Tail Length	Digi-Key Part No.	Price Each 1	25	AMP Part No.
	1mm Standard Edge Connector					
1	242 Position Slot 1 Connector for Pentium II and Celeron Processors	.100 (2.54)	A15102-ND A33649-ND◆	7.93 6.78	6.34 5.42	145251-2 5145251-2
2	124 Position AGP (Accelerated Graphics Port)	.085 (2.16)	A15103-ND	5.43	4.34	145263-1
	124 Position AGP (Accelerated Graphics Port)	.085 (2.16)	A33650-ND◆	4.88	3.90	5145263-1
	Connector for AGP Card	.100 (2.54)	A15104-ND	5.08	4.06	145263-2
	Connector for AGP Card	.100 (2.54)	A33651-ND◆	4.58	3.66	5145263-2
3	340 Position NLX Riser Card Interconnect	.100 (2.54)	A15106-ND A33652-ND◆	11.88 10.23	9.50 8.18	145275-2 5145275-2
	Celeron Retention Modules — RoHS Compliant					
4	Module Kit with Captive Brass Fasteners, 2 pieces (Use with 145312-1 Bridge/Stud Assembly)		A15108-ND	17.33	13.86	145342-1
5	Bridge/Stud Assembly for #145342-1. One Bridge/Stud Assembly Required for Each Retention Module		A15109-ND	3.83	3.06	145312-1
	Universal Retention Modules (URM) — RoHS Compliant					
6	URM with Straight Pin Plastic Fasteners. Compatible with .159" (4.04mm) Holes, 2 pieces		A15115-ND	3.40	2.72	145417-2
7	URM with Clearance Hole for #6 Screw. Customer Supplies Fastener Hardware, 2 pieces		A15117-ND	2.43	1.94	145419-2
	Integrated Retention Modules — RoHS Compliant					
8	Pentium II Retention Module with Fastex Plastic Fasteners		A15113-ND	6.65	5.32	145327-1
	Pentium II Retention Module with Slotted, Captive Nuts		A15118-ND	7.93	6.34	145286-1
	Heat Sink Support Kit — RoHS Compliant					
9	Heat Sink Support Base with Plastic Fasteners for use with Integrated Retention Module #145327-1		A15114-ND	7.50	6.00	145308-1

◆ *RoHS Compliant*

3M

D-Sub Mounting Hardware

RoHS COMPLIANT

Fig.	Description	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
1	Jack Screw Kit	MDVS22-ND	1.04	.79	.72	3342-1
2	Jack Screw Kit	MDVS62-ND	1.25	.95	.86	3342-2
3	Jack Screw Kit	MDVS35-ND	.83	.64	.58	3342-4
4	Screw Mount Kit	MDSMK1-ND	.89	.68	.62	3342-3
5	Jack Socket Kit	MDVS44-ND	1.77	1.35	1.22	3341-1S
6	Jack Socket Kit	MDVS73-ND	1.60	1.22	1.11	3341-2
7	Jack Socket Kit	MDVS50-ND	1.77	1.35	1.22	3341-1L
8	Jack Socket Kit	MDVS81-ND	1.85	1.41	1.28	3341-4

Fig. 1

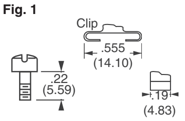

Kit includes 2 screws and 2 clips.

Fig. 2

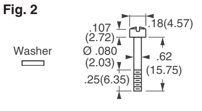

Kit includes 2 screws and 2 flat washers.

Fig. 3

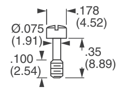

Kit includes 2 screws.

Fig. 4

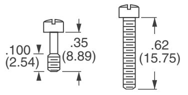

Kit includes 2 screws.

Fig. 5

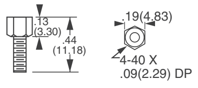

Kit includes 2 sockets, 4 flat washers, 2 lock washers, and 2 nuts.

Fig. 6

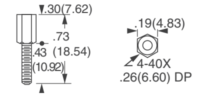

Kit includes 2 sockets, 2 lock washers, and 2 nuts.

Fig. 7

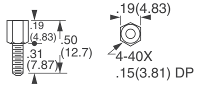

Kit includes 2 sockets, 4 flat washers, 2 lock washers, and 2 nuts.

Fig. 8

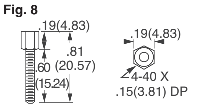

Kit includes 2 sockets, 4 flat washers, 2 lock washers, and 2 nuts.

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE ELECTRONICS CORP

Connector Hardware

Material: Steel, Zinc Plate and Gold Iridite. **Threads:** 4-40

RoHS COMPLIANT

Fig.	Description	Digi-Key Part No.	Price Each 1	5	50	Keystone Part No.
1	Jack Screws 4/40 thread, (1 pkg. = 2 screws) 2 pc. required per connector	2073K-ND	5.96	5.22	4.84	2073
2	Jack Screws 4/40 thd. slim line, 1.25", (1 pkg. = 2 screws) 2 pc. required per connector	2069K-ND	5.75	5.18	3.74	2069
2	Jack Screws 4/40 thd. slim line, 1.75", (1 pkg. = 2 screws) 2 pc. required per connector	2071K-ND	4.84	4.24	3.94	2071
3	Jack Screws 4/40 x .250" (1pkg. = 2 screws) 2 pc. required per connector................	7228K-ND	.69	.61	.57	7228
3	Jack Screws 4/40 x .250" (1pkg. = 2 screws) 2 pc. required per connector................	7228-5K-ND†	.69	.61	.57	7228-5
3	Jack Screws 4/40 x .312" (1pkg. = 2 screws) 2 pc. required per connector................	7230K-ND	.59	.53	.43	7230
3	Jack Screws 4/40 x .312" (1pkg. = 2 screws) 2 pc. required per connector.	7230-5K-ND†	.59	.53	.43	7230-5
3	Jack Screws 4/40 x .625" (1pkg. = 2 screws) 2 pc. required per connector.	7232K-ND	1.41	1.23	1.15	7232
3	Jack Screws 4/40 x .625" (1pkg. = 2 screws) 2 pc. required per connector.	7232-5K-ND†	1.41	1.23	1.15	7232-5
3	Jack Screws 4/40 x .250" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws)...	7229K-ND	1.13	1.02	.96	7229
3	Jack Screws 4/40 x .250" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws)...	7229-5K-ND†	.90	.79	.74	7229-5
3	Jack Screws 4/40 x .312" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws)...	7231K-ND	.73	.65	.60	7231
3	Jack Screws 4/40 x .312" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws)...	7231-5K-ND†	.73	.65	.60	7231-5
3	Jack Screws 4/40 x .625" (10 pcs. = 4 flat washes, 2 lock washers, 2 nuts, 2 jack screws) ...	7233K-ND	1.62	1.42	1.32	7233
3	Jack Screws 4/40 x .625" (10 pcs. = 4 flat washes, 2 lock washers, 2 nuts, 2 jack screws) ...	7233-5K-ND†	1.62	1.42	1.32	7233-5
3	Sems jack screw .285" L 4-40 thread, (1 pkg. = 2 screws) 2 pc. required per connector....	7235K-ND	.73	.64	.60	7235
4	"U" Clip Set (4 pieces = 2 screws and 2 clips)..	2062K-ND	.88	.78	.72	2062
5	Saddle Washer Set (4 pieces = 2 screws and 2 clips)..	2063K-ND	.99	.87	.81	2063
6	4/40 x .250" Bow Tie Clip Set (4 pieces = 2 screws and 2 clips).............................	2060K-ND	1.10	.97	.90	2060
6	4/40 x .562" Bow Tie Clip Set (4 pieces = 2 Screws and 2 clips)	2061K-ND	1.21	1.06	.99	2061

† Clear Chromate

Fig. 1

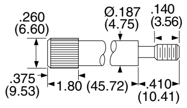

Fig. 2

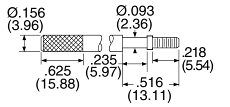

Fig. 3

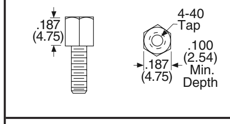

Fig. 4

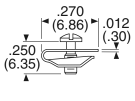

Fig. 5

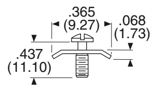

Fig. 6

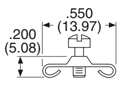

Tyco Electronics AMP

Authorized Distributor

AMPLIMITE®
D-Sub Connectors

All connectors are preloaded with size 20 DF posted contacts; plugs with pin contacts and receptacles with socket contacts.

Front Metal Shell Right Angle HD-20 Series (Fig. 1): • Housing: 94V-0 rated thermoplastic, black • Shell: Steel, Nickel Plated • Contacts: Pins:Brass, Sockets:Phosphor Bronze • Contact Plating: Gold Flash on mating end, tin on solder tails with overall Nickel underplate, or 15µ Gold on mating end, Tin on solder tails with overall Nickel underplate

Steel Tin Plated Shell HD-20 Series (Fig. 1): • Contact Mating Area Plating: 30µ Gold • Eyelets: Brass, Tin Plated • Threaded Inserts: Zinc • Female Screwlock: Zinc • Boardlocks: Copper Alloy, Tin Plated • Pin Contacts: Brass

Zinc Plated Shell HDP-20 Series (Fig. 2): • Contact Mating Area Plating: Gold Flash • Grounding Indents: Without • Recommended PCB Thickness: .062 (1.57mm)

Steel Tin Plated Shell HD-20 Series (Fig. 2): • Contact Mating Area Plating: 30µ gold • Grounding Indents: On Male Plug • Recommended PCB Thickness: .093 (2.36mm)

Fig. 1

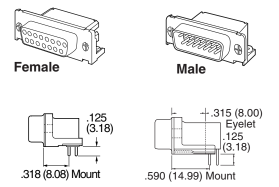

Fig. 2

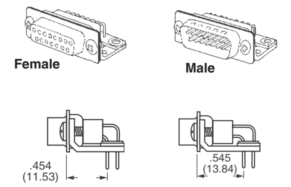

Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Threaded Inserts

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32072-ND◆§	3.71	3.09	5747250-4
	9	Female	A32075-ND◆§	3.22	2.68	5745781-4
	9	Male	A32088-ND◆§	9.78	8.15	5747250-3
	9	Female	A32106-ND◆§	3.93	3.28	5745781-3
	15	Male	A32073-ND◆§	8.52	7.10	5747236-4
	15	Female	A32076-ND◆§	3.93	3.28	5745782-4
	25	Male	A32074-ND◆§	6.60	5.50	5747238-4
	25	Female	A32077 ND◆§	4.65	3.88	5745783-4
	25	Female	A32111-ND◆‡	6.78	5.65	5745783-3
	25	Male	A35123-ND◆‡▲	19.53	16.28	5747238-3
	37	Male	A32162-ND◆§	16.89	14.08	5747252-4
	37	Female	A32078-ND◆§	7.17	5.98	5745784-4

Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Standard Mounting Holes — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A32105-ND§	7.68	6.40	5745781-2
	9	Male	A35125-ND▲§	11.70	9.75	5747250-2
	15	Male	A32086-ND§	6.81	5.68	5747236-2
	15	Female	A32108-ND§	8.22	6.85	5745782-2
	25	Male	A32087-ND§	6.66	5.55	5747238-2
	25	Female	A32110-ND§	9.84	8.20	5745783-2

Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Fixed Female Screwlocks — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32089-ND§	7.35	6.13	5747250-6
	9	Female	A32107-ND‡	7.23	6.03	5745781-6
	9	Female	A35142-ND§✻	9.12	7.60	5788803-1
	15	Female	A32109-ND§	7.65	6.38	5745782-6
	15	Male	A35122-ND▲§	12.87	10.73	5747236-6
	25	Female	A32113-ND§	9.87	8.23	5745783-6
	25	Female	A32112-ND‡	3.78	3.16	5745783-5
	25	Male	A35124-ND▲§	30.45	25.38	5747238-6
	37	Female	A32114-ND§	11.10	9.25	5745784-6

Steel, Tin Plated Shell, .318" (8.08mm) Mount, with Boardlocks, with Standard Mounting Holes

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32090-ND◆§	7.35	6.13	5747840-2
	9	Female	A32115-ND◆§	2.86	2.39	5747844-2
	15	Male	A35126-ND◆▲§	8.52	7.10	5747841-2
	25	Male	A32098-ND◆§	9.99	8.33	5747842-2
	25	Female	A32124-ND◆§	5.36	4.47	5747846-2

Steel, Tin Plated Shell, .318" (8.08mm) Mount, with Boardlocks, with Threaded Inserts — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32092-ND§	2.43	2.03	5747840-4
	9	Female	A32117-ND§	2.86	2.39	5747844-4
	9	Male	A32091-ND‡	3.01	2.52	5747840-3
	9	Female	A32116-ND‡	3.00	2.51	5747844-3
	9	Female	A35109-ND‡	1.04	.87	1734348-1
	9	Female	A35110-NDΔ	1.40	1.17	1734348-2
	9	Male	A35113-ND‡	1.42	1.19	1734352-1
	9	Male	A35114-NDΔ	2.36	1.97	1734352-2
	9	Male	A35128-ND▲§	3.23	2.70	5788792-1
	9	Male	A35129-ND‡▲	4.01	3.35	5788792-2
	9	Female	A35135-ND§✻	3.98	3.32	5788796-3
	15	Male	A32096-ND§	3.15	2.63	5747841-4
	15	Female	A32121-ND§	2.87	2.40	5747845-4
	15	Male	A32095-ND‡	7.47	6.23	5747841-3
	15	Female	A32120-ND‡	2.36	1.97	5747845-3
	15	Female	A35115-ND‡	2.67	2.23	1734355-1
	25	Male	A32100-ND§	5.50	4.59	5747842-4
	25	Female	A32126-ND§	4.40	3.67	5747846-4
	25	Male	A32099-ND‡	8.04	6.70	5747842-3
	25	Female	A32125-ND‡	3.93	3.28	5747846-3
	25	Female	A35111-ND‡	1.28	1.08	1734350-1
	25	Female	A35112-NDΔ	3.07	2.57	1734350-2
	25	Male	A35132-ND▲§	7.31	6.10	5788794-1
	25	Male	A35133-ND‡▲	13.44	11.20	5788794-2
	25	Female	A35138-ND‡✻	7.65	6.38	5788800-2
1	37	Male	A32103-ND§	5.01	4.18	5747843-4
	37	Female	A32129-ND§	7.17	5.98	5747847-4
	37	Male	A35127-ND‡▲	20.49	17.08	5747843-3
	37	Female	A35141-ND§✻	12.09	10.08	5788802-1

Steel, Tin Plated Shell, .318" (8.08mm) Mount, with Boardlocks, with Fixed Female Screwlocks

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32094-ND◆§	3.44	2.87	5747840-6
	9	Female	A32119-ND◆§	2.86	2.39	5747844-6
	9	Male	A32093-ND◆‡	6.87	5.73	5747840-5
	9	Female	A32118-ND◆‡	3.00	2.51	5747844-5
	9	Male	A35105-ND◆‡	1.00	.84	1734351-1
	9	Male	A35106-ND◆Δ	1.82	1.53	1734351-2
	9	Female	A35107-ND◆‡	1.76	1.47	1734354-1
	9	Female	A35108-ND◆Δ	1.66	1.39	1734354-2
	9	Male	A35130-ND◆▲§	4.58	3.82	5788793-1
	9	Male	A35131-ND◆‡▲	7.59	6.33	5788793-2
	9	Female	A35136-ND◆✻§	3.80	3.17	5788797-1
	15	Male	A32097-ND◆§	3.15	2.63	5747841-6
	15	Female	A32123-ND◆§	8.82	7.35	5747845-6
	15	Female	A23308-ND‡	8.55	7.13	747845-5
	15	Female	A32122-ND◆‡	7.50	6.25	5747845-5
	15	Female	A35137-ND◆✻§	11.13	9.28	5788799-1
	25	Male	A32102-ND◆§	10.50	8.75	5747842-6
	25	Female	A32128-ND◆§	5.06	4.22	5747846-6
	25	Male	A32101-ND◆‡	12.18	10.15	5747842-5
	25	Female	A32127-ND◆‡	3.64	3.04	5747846-5
	25	Female	A35103-ND◆‡	1.41	1.18	1734349-1
	25	Female	A35104-ND◆Δ	2.54	2.12	1734349-2
	25	Male	A35134-ND◆▲§	20.13	16.78	5788795-1
	25	Female	A35139-ND◆✻§	8.45	7.04	5788801-1
	25	Female	A35140-ND◆‡✻	7.09	5.91	5788801-2
	37	Male	A23290-ND§	17.70	14.75	747843-6
	37	Male	A32104-ND◆§	15.18	12.65	5747843-6
	37	Female	A23316-ND§	12.75	10.63	747847-6
	37	Female	A32130-ND◆§	7.17	5.98	5747847-6

All-Plastic .318" (8.08mm) Mount, with Boardlocks, with Threaded Inserts — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	15	Male	A35155-ND§	9.54	7.95	5748904-1
	25	Female	A33975-ND§	9.87	8.23	5748901-1

All-Plastic .318" (8.08mm) Mount, with Boardlocks, with Fixed Female Screwlocks

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A23343-ND§	11.58	9.65	748979-1
	9	Female	A33976-ND◆§	9.96	8.30	5748979-1
	25	Female	A35153-ND◆§	11.37	9.48	5748981-1

All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Threaded Inserts — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A33977-ND§	6.60	5.50	5745394-2
	25	Female	A32131-ND§	9.09	7.58	5745392-2
	25	Male	A35154-ND◊	10.02	8.35	5748865-3

All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Fixed Female Screwlocks

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A23339-ND§	8.61	7.18	745395-2
	9	Female	A33978-ND◆§	7.44	6.20	5745395-2
	15	Female	A33979-ND◆§	8.37	6.98	5745396-2
	25	Female	A23341-ND§	20.16	16.80	745397-2
	25	Female	A32132-ND◆§	10.74	8.95	5745397-2

All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Standard Mounting Holes

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A23334-ND‡	6.54	5.45	745131-1
	9	Female	A33980-ND◆‡	6.09	5.08	5745131-1
	25	Female	A23335-ND§	14.85	12.38	745132-2
	25	Female	A33981-ND◆§	13.86	11.55	5745132-2

Steel, Tin Plated .590" (14.99mm) Mount, without Boardlocks, with Threaded Inserts

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32079-ND◆§	21.96	18.30	5745990-4
	9	Female	A32083-ND◆§	18.45	15.38	5745988-4
	9	Male	A32133-ND◆‡	17.19	14.33	5745990-3
	15	Female	A32084-ND◆§	23.46	19.55	5745984-4
	25	Male	A32081-ND◆§	22.41	18.68	5745994-4
	25	Female	A32137-ND◆‡	20.01	16.68	5745992-3
	37	Female	A32085-ND◆§	31.68	26.40	5745996-4

Steel, Tin Plated .590" (14.99mm) Mount, with Boardlocks, with Threaded Inserts — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32134-ND§	9.87	8.23	5747832-4
	9	Female	A32138-ND§	8.49	7.08	5747836-4
	15	Male	A32080-ND§	14.97	12.48	5747833-4
	25	Male	A32136-ND§	5.94	4.95	5747834-4
	25	Female	A32141-ND§	5.07	4.23	5747838-4
	25	Female	A32140-ND‡	20.76	17.30	5747838-3
	37	Male	A32082-ND§	19.56	16.30	5747835-4

Steel, Tin Plated .590" (14.99mm) Mount, with Boardlocks, with Fixed Female Screwlocks — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32135-ND§	19.53	16.28	5747832-6
	9	Female	A32139-ND§	8.34	6.95	5747836-6
	15	Male	A35151-ND§	25.77	21.48	5747833-6
	25	Male	A35152-ND§	31.89	26.58	5747834-6

All-Plastic .590" (14.99mm) Mount, with Boardlocks, with Threaded Inserts — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A35156-ND‡	7.47	6.23	5748907-2

All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Threaded Inserts

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A23375-ND§	7.71	6.43	747467-4
	9	Male	A33982-ND◆§	6.60	5.50	5747467-4
	9	Female	A33983-ND◆§	7.59	6.33	5747459-4
	9	Female	A33984-ND◆‡	7.41	6.18	5747459-3
	15	Female	A33985-ND◆‡	13.11	10.93	5747460-3
	15	Male	A35162-ND◆§	10.74	8.95	5748872-1
	25	Male	A33986-ND◆§	11.37	9.48	5748873-1
	25	Female	A33987-ND◆‡	7.35	6.13	5747461-3
	25	Female	A35158-ND◆§	30.42	25.35	5747461-4
	37	Female	A35159-ND◆§	21.27	17.73	5747462-4

All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Fixed Female Screwlocks — RoHS Compliant

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A33988-ND§	7.62	6.35	5747459-6
	9	Female	A33989-ND‡	7.05	5.88	5747459-5
	15	Male	A33990-ND§	16.50	13.75	5748952-1
	15	Female	A35157-ND‡	10.17	8.48	5747460-5
	25	Female	A33991-ND§	9.06	7.55	5747461-6
	25	Female	A33992-ND‡	8.52	7.10	5747461-5
	37	Female	A35160-ND§	19.14	15.95	5747462-6

All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Standard Mounting Holes

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A23357-ND§	6.09	5.08	747459-2
	9	Female	A33993-ND◆§	10.98	9.15	5747459-2
	9	Male	A23373-ND‡	6.33	5.28	747467-1
	9	Male	A33994-ND◆‡	5.91	4.93	5747467-1
	15	Male	A23376-ND§	6.90	5.75	747468-2
	15	Male	A33995-ND◆§	12.54	10.45	5747468-2
	25	Male	A23379-ND§	9.03	7.53	748826-1
	25	Male	A33996-ND◆§	8.40	7.00	5748826-1
	25	Female	A23365-ND§	7.29	6.08	747461-2
	25	Female	A33997-ND◆§	6.84	5.70	5747461-2
	25	Female	A23364-ND‡	6.87	5.73	747461-1
	25	Female	A33998-ND◆‡	6.39	5.33	5747461-1
	37	Male	A23378-ND§	10.80	9.00	747470-2
	37	Male	A33999-ND◆§	19.59	16.33	5747470-2
	37	Female	A23369-ND§	10.50	8.75	747462-2
	37	Female	A34000-ND◆§	9.81	8.18	5747462-2
	50	Male	A35161-ND◆‡	37.44	31.20	5206971-1

Steel, Tin Plated Shell, .454" (11.53mm) Mount

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	9	Male	A32142-ND◆	21.45	17.88	5745434-8
	9	Female	A35144-ND◆‡	20.52	17.10	5745438-1
	9	Female	A35145-ND◆‡	50.58	42.15	5745438-3
	15	Male	A35147-ND◆§	25.38	21.15	5745435-8
	25	Female	A23391-ND	29.70	24.75	745440-4
	25	Female	A32144-ND◆	30.90	25.75	5745440-4

◆ **RoHS Compliant** § 30µ Gold Δ 15µ Gold ◊ 10µ Gold † Tin shell
‡ Gold flash on mating end ▲ With Grounding Indents and Straps
✻ With Grounding straps

(Continued)

AMPLIMITE®

D-Sub Connectors *(Cont.)*

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	25	Female	A35146-ND◆‡	28.41	23.68	5745440-1
	25	Male	A35148-ND◆‡	30.24	25.20	5745436-3
	37	Female	A32145-ND◆	36.24	30.20	5745441-4
	37	Male	A32143-ND◆‡	33.60	28.00	5745437-3
Zinc Plated Shell, .545" (13.84mm) Mount						
2	9	Male	A32064-ND◆	17.13	14.28	5205865-1
	9	Female	A1021-ND	19.17	15.98	205866-1
	9	Female	A32065-ND◆	18.90	15.75	5205866-1
	15	Female	A32067-ND◆	24.36	20.30	5205868-1
	25	Male	A1024-ND§	28.41	23.68	205857-1
	25	Male	A32068-ND◆§	26.55	22.13	5205857-1
	25	Female	A1025-ND†	26.70	22.25	205858-1
	25	Female	A32069-ND◆†	24.96	20.80	5205858-1
	37	Male	A32070-ND◆†	27.48	22.90	5205859-1
	37	Female	A1027-ND	36.81	30.68	205860-1
	37	Female	A32071-ND◆	34.44	28.70	5205860-1
Steel, Tin Plated Shell, .545" (13.84mm) Mount, with Standard Mounting Screws — RoHS Compliant						
2	9	Male	A35149-ND§	21.30	17.75	5745351-4
	9	Female	A35150-ND§	19.05	15.88	5745112-2
	15	Male	A32066-ND	20.76	17.30	5745352-4
	15	Female	A32151-ND	21.81	18.18	5745113-2
	25	Female	A32152-ND	25.56	21.30	5745114-2
	37	Male	A32146-ND	35.61	29.68	5745354-4
	37	Female	A32153-ND	68.01	56.68	5745115-2
	50	Male	A32147-ND	37.80	31.50	5745355-4
	50	Female	A32155-ND	40.59	33.83	5745116-2
	50	Female	A32154-ND	43.62	36.35	5745116-1
Steel, Tin Plated Shell, .545" (13.84mm) Mount, with Female Screwlocks						
2	9	Male	A32149-ND◆	33.78	28.15	5747197-4
	9	Female	A34001-ND◆	28.05	23.38	5747020-2
	9	Female	A32161-ND◆	21.96	18.30	5747020-1
	15	Female	A32157-ND◆	45.06	37.55	5747021-2
	25	Male	A32148-ND◆	29.25	24.38	5747022-2
	25	Female	A32156-ND◆	39.03	32.53	5745536-2
	50	Male	A23398-ND	47.58	39.65	747497-4
	50	Male	A32150-ND◆	40.92	34.10	5747497-4
	50	Female	A23409-ND	49.20	41.00	747193-2
	50	Female	A32159-ND◆	42.27	35.23	5747193-2
	50	Female	A23408-ND‡	46.08	38.40	747193-1
	50	Female	A32158-ND◆‡	39.60	33.00	5747193-1

◆ ***RoHS Compliant*** § 30µ Gold Δ 15µ Gold ◊ 10µ Gold † Tin shell
‡ Gold flash on mating end ▲ With Grounding Indents and Straps
✻ With Grounding straps

HDJ-20 All Plastic Jacketed Cable Connector

Use with HDP-20 Crimp Snap-In Contacts (sold separately)

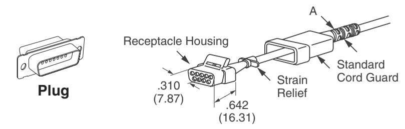

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
9	Receptacle	A23471-ND†	.97	.81	207752-3
	Plug	A34002-ND	3.06	2.55	5745018-1
	Steel Strain Relief	A23464-ND	.19	.17	61831-1

No. of Pos.	Dim. Inch (mm) A	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
HDJ-20 Standard Cord Guards – Black Thermoplastic					
9	.234 (5.94)	A23465-ND	1.05	.88	207753-1
HDJ-20 Squeeze-to-Release Cord Guards – Black Thermoplastic					
9	.265 (6.73)	A23467-ND	1.56	1.31	745002-2

† 94V-0 rated thermoplastic black

HD-20 All-Plastic Straight Posted with ACTION PIN

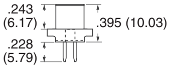

No. of Pos.	Sex	Profile	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
With Fixed Female Screwlocks						
9	Female	Low	A23136-ND	9.93	8.28	745454-2
			A32054-ND◆	8.58	7.15	5745454-2
25	Female	Low	A23137-ND	20.07	16.73	745458-2
			A32055-ND◆	15.93	13.28	5745458-2
37	Female	Low	A32056-ND◆	17.31	14.43	5745459-2

◆ ***RoHS Compliant***

Plug Assemblies

HDJ-20 All-Plastic Plug Assemblies with Right-Angle Posted Contacts

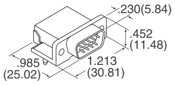

Material and Finish: Housing and Post Spacer: Black thermoplastic, 94V-2 rated **Pin Contacts (Posted):** Brass, plated Gold flash on mating end, tin-lead on solder posts, entire contact nickel underplated

No. of Positions	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
9	A23474-ND	9.48	7.90	745001-3
	A34003-ND◆	8.85	7.38	5745001-3

◆ ***RoHS Compliant***

HDP-20
Front Metal-Shell Straight Posted with Solder Pins

Material and Finish: Front Shell: Steel, tin plated **Housing:** 94V-0 rated, black glass filled polyester **Threaded Inserts:** Tin plated steel, 4-40 inner thread **Female Screwlocks:** Tin plated steel, 4-40 inner thread **Boardlocks:** Tin plated Phosphor bronze **Contacts:** Phosphor bronze **Plating:** Gold over nickel, tin plating on solder part

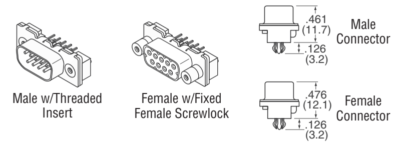

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
With Threaded Inserts					
9	Male	A35163-ND	9.39	7.83	1-338309-2
	Female	A35166-ND	11.01	9.18	1-338313-2
15	Male	A35164-ND	10.02	8.35	1-338310-2
	Female	A35167-ND	10.02	8.35	1-338314-2
25	Male	A35165-ND	8.22	6.85	1-338311-2
	Female	A35168-ND	11.85	9.88	1-338315-2
With Fixed Female Screwlocks					
9	Male	A35169-ND	11.28	9.40	3-338309-2
	Female	A35172-ND	11.28	9.40	3-338313-2
15	Male	A35170-ND	13.41	11.18	3-338310-2
	Female	A35173-ND	7.71	6.43	3-338314-2
25	Male	A35171-ND	8.52	7.10	3-338311-2
	Female	A35174-ND	10.23	8.53	3-338315-2

HD-20 Front Metal-Shell Straight Posted with ACTION PIN

Material and Finish:

Front Shell: Steel, tin plated **Housing:** 94V-0 rated thermoplastic, black **Threaded Inserts:** Brass, unplated **Female Screwlocks:** Zinc **Action Pin Contacts:** Copper alloy duplex plated **Plating:** 30µ gold on mating end, tin-lead on Action Pin post surface, with entire contact 50µ (minimum) nickel underplated

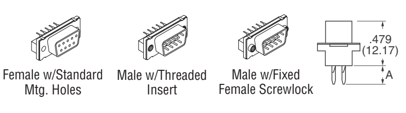

No. of Pos.	Sex	Dim A In. (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
With Standard Mounting Holes — RoHS Compliant						
9	Female	.206 (5.23)	A32030-ND	14.07	11.73	5747089-2
15	Female	.206 (5.23)	A32041-ND	16.14	13.45	5747140-2
25	Female	.206 (5.23)	A35195-ND	17.28	14.40	5745922-2
37	Female	.228 (5.79)	A32046-ND	23.58	19.65	5747713-2
50	Female	.228 (5.79)	A32044-ND	35.91	29.93	5747143-2
With Threaded Inserts						
9	Female	.206 (5.23)	A32031-ND◆	6.45	5.38	5747090-2
	Male	.228 (5.79)	A32052-ND◆	15.90	13.25	5786830-1
15	Female	.228 (5.79)	A23120-ND	9.78	8.15	747141-2
	Female	.228 (5.79)	A32042-ND◆	13.35	11.13	5747141-2
25	Female	.228 (5.79)	A32040-ND◆	9.54	7.95	5745925-2
	Male	.228 (5.79)	A32049-ND◆	36.54	30.45	5748146-4
37	Female	.228 (5.79)	A32047-ND◆	23.79	19.83	5747714-2
	Male	.228 (5.79)	A32051-ND◆	43.62	36.35	5786534-1
50	Female	.228 (5.79)	A23123-ND	19.83	16.53	747144-2
	Female	.228 (5.79)	A32033-ND◆	19.83	16.53	5747144-2
	Male	.228 (5.79)	A32034-ND◆	79.11	65.93	5749892-1
With Fixed Female Screwlocks						
9	Female	.206 (5.23)	A35198-ND◆†	14.04	11.70	5745455-2
	Female	.228 (5.79)	A32032-ND◆	9.51	7.93	5747091-2
	Male	.228 (5.79)	A35197-ND◆	13.41	11.18	5787176-1
15	Female	.228 (5.79)	A32043-ND◆	10.53	8.78	5747142-2
	Male	.228 (5.79)	A32053-ND◆	16.50	13.75	5787177-1
25	Female	.228 (5.79)	A32029-ND◆	10.23	8.53	5745928-2
	Male	.228 (5.79)	A32050-ND◆	15.09	12.58	5748146-6
37	Female	.228 (5.79)	A32048-ND◆	16.92	14.10	5747715-2
	Male	.228 (5.79)	A35196-ND◆	28.35	23.63	5750060-1
50	Female	.228 (5.79)	A23124-ND	23.22	19.35	747145-2
	Female	.228 (5.79)	A32045-ND◆	21.39	17.83	5747145-2

◆ ***RoHS Compliant*** † Brass Screwlocks

HD-20 All-Plastic Straight Posted

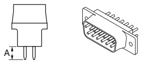

Material and Finish: Housing: 94V-0 rated thermoplastic, black **Threaded Inserts:** Brass, unplated **Female Screwlocks:** Brass, nickel plated **Pin Contacts:** Brass or phosphor bronze plated, tin-lead on termination end, with entire contact 50µ (minimum) nickel underplated

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
With Standard Mounting Holes						
9	Male	.125 (3.18)	A23218-ND†	5.07	4.23	208006-2
	Female		A23238-ND†	5.67	4.73	207826-4
	Male		A23217-ND‡	4.83	4.03	208006-1
15	Male	.125 (3.18)	A23220-ND†	6.21	5.18	208007-2
25	Male	.125 (3.18)	A23222-ND†	8.10	6.75	208008-2
	Female		A23243-ND†	9.09	7.58	207828-4
	Male		A23221-ND‡	7.05	5.88	208008-1
	Female		A23242-ND‡	7.83	6.53	207828-3
37	Female	.125 (3.18)	A23245-ND†	14.67	12.23	207829-4
	Male		A23223-ND‡	10.38	8.65	208009-1
50	Male	.125 (3.18)	A23225-ND†	17.10	14.25	208010-2
With Standard Mounting Holes — RoHS Compliant						
9	Male	.125 (3.18)	A34004-ND†	4.77	3.98	5208006-2
	Female		A34005-ND†	5.28	4.40	5207826-4
	Male		A34006-ND‡	4.50	3.75	5208006-1
	Female		A32060-ND‡	4.59	3.83	5207826-3
15	Male	.125 (3.18)	A34007-ND†	5.82	4.85	5208007-2
	Female		A32061-ND†	6.27	5.23	5207827-4
25	Male	.125 (3.18)	A34008-ND†	7.59	6.33	5208008-2
	Female		A34009-ND†	8.52	7.10	5207828-4
	Male		A34010-ND‡	6.60	5.50	5208008-1
	Female		A34011-ND‡	7.32	6.10	5207828-3
37	Female	.125 (3.18)	A34012-ND†	13.71	11.43	5207829-4
	Male		A34013-ND‡	9.69	8.08	5208009-1
	Male	.170 (4.32)	A35187-ND‡	12.24	10.20	5208009-3
50	Male	.125 (3.18)	A34014-ND†	15.99	13.33	5208010-2
With Threaded Inserts						
9	Female	.125 (3.18)	A23248-ND†	7.20	6.00	207841-4
			A23247-ND‡	6.87	5.73	207841-3
15	Female	.125 (3.18)	A23250-ND†	10.17	8.48	745057-4
25	Male	.125 (3.18)	A23228-ND†	12.75	10.63	745053-2
	Female		A23252-ND†	15.51	12.93	745058-4
	Female		A23251-ND‡	12.15	10.13	745058-3
With Threaded Inserts — RoHS Compliant						
9	Female	.125 (3.18)	A34015-ND†	6.78	5.65	5207841-4
	Female		A34016-ND‡	6.39	5.33	5207841-3
	Male		A35188-ND‡	10.26	8.55	5745051-1
15	Female	.125 (3.18)	A34017-ND†	13.17	10.98	5745057-4
25	Male	.125 (3.18)	A34018-ND†	11.91	9.93	5745053-2
	Female		A34019-ND†	11.82	9.85	5745058-4
	Female		A34020-ND‡	11.37	9.48	5745058-3
37	Female	.125 (3.18)	A35191-ND†	18.81	15.68	5745059-4
With Fixed Female Screwlocks						
9	Male	.125 (3.18)	A23230-ND†	7.59	6.33	745071-2
	Female		A23255-ND†	6.96	5.80	745076-4

† 30µ gold on mating end ‡ Gold flash on mating end

(Continued)

AMPLIMITE®

D-Sub Connectors

HD-20 All-Plastic Straight Posted *(Cont.)*

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
9	Male	.125 (3.18)	A23229-ND‡	7.71	6.43	745071-1
	Female		A23254-ND‡	6.33	5.28	745076-3
	Male	.170 (4.32)	A23231-ND†	7.89	6.58	745071-4
15	Female	.125 (3.18)	A23258-ND†	9.87	8.23	745077-4
	Female		A23257-ND‡	8.94	7.45	745077-3
	Male	.170 (4.32)	A23232-ND†	10.59	8.83	745072-4
25	Female	.125 (3.18)	A23261-ND†	11.04	9.20	745078-4
	Male		A23233-ND‡	10.29	8.58	745073-1
	Female		A23260-ND‡	9.51	7.93	745078-3
	Female	.170 (4.32)	A23263-ND‡	12.48	10.40	745078-5
37	Female	.125 (3.18)	A23265-ND†	15.39	12.83	745079-4
	Male	.170 (4.32)	A23236-ND†	19.56	16.30	745074-4
	Female		A23266-ND†	17.70	14.75	745079-6
With Fixed Female Screwlocks — RoHS Compliant						
9	Male	.125 (3.18)	A34021-ND†	7.35	6.13	5745071-2
	Female		A34022-ND†	6.72	5.60	5745076-4
	Male		A34023-ND‡	7.20	6.00	5745071-1
	Female		A34024-ND‡	5.91	4.93	5745076-3
	Male	.170 (4.32)	A34025-ND†	7.35	6.13	5745071-4
	Female		A32062-ND†	7.56	6.30	5745076-6
15	Female	.125 (3.18)	A34026-ND†	9.21	7.68	5745077-4
	Female		A34027-ND‡	8.34	6.95	5745077-3
	Male		A35189-ND†	8.37	6.98	5745072-2
	Female	.170 (4.32)	A35192-ND†	9.90	8.25	5745077-6
	Male		A34028-ND†	9.87	8.23	5745072-4
25	Male	.125 (3.18)	A34029-ND†	10.29	8.58	5745073-2
	Female		A34030-ND†	10.32	8.60	5745078-4
	Male		A34031-ND‡	9.60	8.00	5745073-1
	Female		A34032-ND‡	8.88	7.40	5745078-3
	Female	.170 (4.32)	A32063-ND†	10.71	8.93	5745078-6
	Female		A34033-ND‡	11.67	9.73	5745078-5
	Male		A35190-ND‡	10.68	8.90	5745073-3
37	Female	.125 (3.18)	A34034-ND†	14.40	12.00	5745079-4
	Male	.170 (4.32)	A34035-ND†	19.23	16.03	5745074-4
	Female		A34036-ND†	16.56	13.80	5745079-6
50	Female	.125 (3.18)	A35193-ND†	22.53	18.78	5745080-4
	Female	.170 (4.32)	A35194-ND†	18.30	15.25	5745080-6

† 30µ gold on mating end ‡ Gold flash on mating end

HD-20 Full Metal-Shell Straight Posted

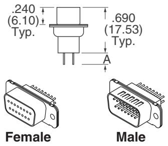

Material and Finish: Shell: Steel, tin plated **Insert:** 94V-0 rated thermoplastic, black **Pin Contacts:** Brass or phosphor bronze plated, tin on termination end, with entire contact 50µ (minimum) nickel underplated

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Without Grounding Indents						
9	Male	.125 (3.18)	A23139-ND‡	5.40	4.50	745182-2
25	Male	.125 (3.18)	A23140-ND‡	9.03	7.53	745186-2
Without Grounding Indents — RoHS Compliant						
9	Male	.125 (3.18)	A34037-ND‡	5.04	4.20	5745182-2
25	Male	.125 (3.18)	A34038-ND‡	8.43	7.03	5745186-2
With Grounding Indents						
9	Male	.125 (3.18)	A23141-ND†	6.36	5.30	745410-1
		.188 (4.78)	A23142-ND†	8.16	6.80	745410-7
25	Male	.125 (3.18)	A23143-ND†	7.38	6.15	745412-1
		.188 (4.78)	A23144-ND†	11.37	9.48	745412-7
37	Male	.125 (3.18)	A23145-ND†	17.94	14.95	745413-1
50	Male	.125 (3.18)	A23146-ND†	22.05	18.38	745414-1
		.188 (4.78)	A23147-ND†	20.04	16.70	745414-7
With Grounding Indents — RoHS Compliant						
9	Male	.125 (3.18)	A34039-ND†	6.00	5.00	5745410-1
		.188 (4.78)	A34040-ND†	10.59	8.83	5745410-7
25	Male	.125 (3.18)	A34041-ND†	6.90	5.75	5745412-1
		.188 (4.78)	A34042-ND†	10.62	8.85	5745412-7
37	Male	.125 (3.18)	A34043-ND†	16.77	13.98	5745413-1
50	Male	.125 (3.18)	A34044-ND†	20.61	17.18	5745414-1
		.188 (4.78)	A34045-ND†	25.98	21.65	5745414-7

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
With .120" (3.05mm) Mounting Holes						
9	Female	.125 (3.18)	A23149-ND‡	6.21	5.18	745183-2
		.188 (4.78)	A23150-ND†	6.99	5.83	745183-7
15	Female	.188 (4.78)	A23148-ND†	9.45	7.88	745185-7
25	Female	.125 (3.18)	A23151-ND†	13.83	11.53	745187-1
		.188 (4.78)	A23152-ND†	12.21	10.18	745187-7
		.188 (4.78)	A23153-ND‡	14.52	12.10	745187-8
37	Female	.188 (4.78)	A23155-ND†	16.98	14.15	745189-7
50	Female	.125 (3.18)	A23156-ND†	20.22	16.85	745191-1
		.188 (4.78)	A23157-ND†	20.31	16.93	745191-7
With .120" (3.05mm) Mounting Holes — RoHS Compliant						
9	Female	.125 (3.18)	A34046-ND‡	5.82	4.85	5745183-2
		.188 (4.78)	A34047-ND†	6.54	5.45	5745183-7
		.427 (10.85)	A35175-ND†	10.74	8.95	5745183-3
15	Female	.188 (4.78)	A34048-ND†	8.82	7.35	5745185-7
25	Female	.125 (3.18)	A34049-ND†	10.11	8.43	5745187-1
		.188 (4.78)	A34050-ND†	10.89	9.08	5745187-7
		.188 (4.78)	A34051-ND‡	9.30	7.75	5745187-8
		.427 (10.85)	A35176-ND†	12.24	10.20	5745187-3
37	Female	.125 (3.18)	A34052-ND†	15.15	12.63	5745189-1
		.188 (4.78)	A34053-ND†	15.87	13.23	5745189-7
50	Female	.125 (3.18)	A34054-ND†	18.90	15.75	5745191-1
		.188 (4.78)	A34055-ND†	26.28	21.90	5745191-7
With Clinch Nuts						
9	Female	.125 (3.18)	A23163-ND‡	9.06	7.55	747190-1
		.125 (3.18)	A23164-ND†	9.09	7.58	747190-2
		.188 (4.78)	A23165-ND†	18.39	15.33	747190-4
15	Female	.125 (3.18)	A23158-ND†	10.95	9.13	745820-1
		.125 (3.18)	A23159-ND‡	10.50	8.75	745820-2
25	Female	.125 (3.18)	A23161-ND†	15.90	13.25	745886-1
		.125 (3.18)	A23162-ND‡	18.72	15.60	745886-2
37	Female	.125 (3.18)	A23167-ND†	17.97	14.98	747315-1
With Clinch Nuts — RoHS Compliant						
9	Female	.125 (3.18)	A34056-ND†	8.49	7.08	5747190-2
		.125 (3.18)	A34057-ND‡	8.43	7.03	5747190-1
		.188 (4.78)	A34058-ND†	10.29	8.58	5747190-4
15	Female	.125 (3.18)	A34059-ND†	10.29	8.58	5745820-1
		.125 (3.18)	A34060-ND‡	9.81	8.18	5745820-2
25	Female	.125 (3.18)	A34061-ND†	11.61	9.68	5745886-1
		.125 (3.18)	A34062-ND‡	12.03	10.03	5745886-2
37	Female	.125 (3.18)	A34063-ND†	12.93	10.78	5747315-1

† 30µ gold on mating end ‡ Gold flash on mating end

HD-20 Front Metal-Shell Straight Posted

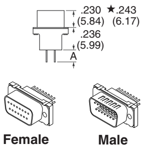

Material and Finish: Shell: Steel, tin plated **Housing:** 94V-0 rated thermoplastic, black **Threaded Inserts:** Brass, unplated **Female Screwlocks:** Zinc **Pin Contacts:** Brass or phosphor bronze plated, tin-lead on termination end, with entire contact 50µ (minimum) nickel underplated

No. of Pos.	Sex	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
With Standard Mounting Holes						
9	Male	.125(3.18)	A23183-ND†	4.71	3.93	747871-2
	Female	.170(4.32)	A23207-ND†	11.55	9.63	747150-4
15	Female	.125(3.18)	A23211-ND†	7.95	6.63	747299-2
	Male	.170(4.32)	A23185-ND†	5.67	4.73	747872-4
25	Male	.125(3.18)	A23177-ND†	7.35	6.13	745968-2
	Female	.125(3.18)	A23203-ND†	10.23	8.53	745967-2
	Male	.170(4.32)	A23178-ND†	8.70	7.25	745968-4
37	Male	.125(3.18)	A23181-ND†	12.27	10.23	747375-2
With Standard Mounting Holes — RoHS Compliant						
9	Female	.125(3.18)	A32038-ND†	4.56	3.80	5747150-2
	Male	.125(3.18)	A34064-ND†	4.44	3.70	5747871-2
	Female	.170(4.32)	A34065-ND†	10.80	9.00	5747150-4
	Male	.170(4.32)	A35178-ND†	7.92	6.60	5747871-4
15	Female	.125(3.18)	A34066-ND†	7.47	6.23	5747299-2
	Male	.170(4.32)	A34067-ND†	5.31	4.43	5747872-4
	Female	.170(4.32)	A35182-ND†★	13.89	11.58	5747299-4
25	Male	.125(3.18)	A34068-ND†	6.90	5.75	5745968-2
	Female	.125(3.18)	A34069-ND†	7.47	6.23	5745967-2
	Male	.170(4.32)	A34070-ND†	8.13	6.78	5745968-4
	Female	.170(4.32)	A35181-ND†★	10.71	8.93	5745967-4
37	Male	.125(3.18)	A34071-ND†	11.46	9.55	5747375-2
	Female	.125(3.18)	A32039-ND†	13.14	10.95	5747301-2
With 4-40 Threaded Inserts						
9	Female	.125(3.18)	A23209-ND†	7.17	5.98	747150-8
		.125(3.18)	A23208-ND‡	6.69	5.58	747150-7
15	Male	.125(3.18)	A23186-ND†	7.29	6.08	747872-8
	Female	.125(3.18)	A23213-ND†	6.60	5.50	747299-8
	Female	.125(3.18)	A23212-ND‡	8.37	6.98	747299-7
25	Male	.125(3.18)	A23180-ND†	9.00	7.50	745968-8
	Female	.125(3.18)	A23205-ND†	12.00	10.00	745967-8
	Male	.125(3.18)	A23179-ND‡	8.04	6.70	745968-7
	Female	.170(4.32)	A23188-ND†	13.35	11.13	1-745967-0
37	Male	.125(3.18)	A23182-ND†	15.54	12.95	747375-8
	Female	.125(3.18)	A23216-ND†	13.98	11.65	747301-8
	Female	.125(3.18)	A23215-ND‡	12.51	10.43	747301-7
With 4-40 Threaded Inserts — RoHS Compliant						
9	Male	.125(3.18)	A32035-ND†	7.32	6.10	5747871-8
	Female	.125(3.18)	A34072-ND†	6.93	5.78	5747150-8
	Female	.125(3.18)	A34073-ND‡	6.24	5.20	5747150-7
	Female	.170(4.32)	A34074-ND‡	5.82	4.85	5747150-9
15	Male	.125(3.18)	A34075-ND†	6.84	5.70	5747872-8
	Female	.125(3.18)	A34076-ND†	6.18	5.15	5747299-8
	Female	.125(3.18)	A34077-ND‡	6.18	5.15	5747299-7
25	Male	.125(3.18)	A34078-ND†	8.40	7.00	5745968-8
	Female	.125(3.18)	A34079-ND†	8.79	7.33	5745967-8
	Male	.125(3.18)	A34080-ND‡	7.50	6.25	5745968-7
	Female	.125(3.18)	A34081-ND‡	7.32	6.10	5745967-7
	Female	.170(4.32)	A34082-ND†	9.78	8.15	1-5745967-0
37	Male	.125(3.18)	A34083-ND†	14.52	12.10	5747375-8
	Female	.125(3.18)	A34084-ND†	13.08	10.90	5747301-8
	Female	.125(3.18)	A34085-ND‡	11.70	9.75	5747301-7
With Retention 4-40 Inserts (for .062" [1.58mm] PCB)						
15	Female	.125(3.18)	A23200-ND†	8.64	7.20	2-747707-0
25	Male	.125(3.18)	A23175-ND†	10.08	8.40	2-747704-0
37	Female	.125(3.18)	A23202-ND†	24.69	20.58	2-747709-0
With Retention 4-40 Inserts (for .062" [1.58mm] PCB) — RoHS Compliant						
9	Male	.125(3.18)	A32058-ND†	6.33	5.28	2-5748003-0
	Female	.125(3.18)	A32036-ND†	6.90	5.75	2-5747706-0
15	Female	.125(3.18)	A34086-ND†	7.44	6.20	2-5747707-0
25	Male	.125(3.18)	A34087-ND†	7.14	5.95	2-5747704-0
	Female	.125(3.18)	A32037-ND†	8.22	6.85	2-5747708-0
37	Female	.125(3.18)	A34088-ND†	13.35	11.13	2-5747709-0
With Fixed Female Screwlocks						
9	Female	.125(3.18)	A23192-ND‡	9.33	7.78	1-747150-3
	Female	.170(4.32)	A23194-ND†	11.07	9.23	1-747150-6
15	Female	.125(3.18)	A23196-ND†	7.68	6.40	1-747299-4
	Male	.170(4.32)	A23174-ND†	8.79	7.33	1-747872-6
	Female	.170(4.32)	A23197-ND†	8.82	7.35	1-747299-6
25	Male	.125(3.18)	A23169-ND†	15.90	13.25	1-745968-4
37	Female	.170(4.32)	A23198-ND†	23.10	19.25	1-747301-6
With Fixed Female Screwlocks — RoHS Compliant						
9	Male	.125(3.18)	A32057-ND†	8.01	6.68	1-5747871-4
	Female	.125(3.18)	A32059-ND†	6.78	5.65	1-5747150-4
	Male	.125(3.18)	A34089-ND‡	6.36	5.30	1-5747871-3
	Female	.125(3.18)	A34090-ND‡	6.48	5.40	1-5747150-3
	Female	.170(4.32)	A34091-ND†	7.83	6.53	1-5747150-6
	Male	.170(4.32)	A34092-ND†	6.63	5.53	1-5747871-6
15	Female	.125(3.18)	A34093-ND†	6.60	5.50	1-5747299-4
	Male	.170(4.32)	A34094-ND†	7.50	6.25	1-5747872-6
	Female	.170(4.32)	A34095-ND†	7.59	6.33	1-5747299-6
25	Male	.125(3.18)	A34096-ND†	9.06	7.55	1-5745968-4
	Female	.125(3.18)	A34097-ND†	7.26	6.05	1-5745967-4
	Male	.125(3.18)	A34098-ND‡	8.37	6.98	1-5745968-3
	Male	.170(4.32)	A34099-ND†	9.24	7.70	1-5745968-6
	Male	.170(4.32)	A35177-ND‡	10.47	8.73	1-5745968-5
	Female	.170(4.32)	A34100-ND†	8.49	7.08	1-5745967-6
	Female	.170(4.32)	A34101-ND‡	10.32	8.60	1-5745967-5
37	Female	.170(4.32)	A34102-ND†	19.86	16.55	1-5747301-6
With Retention 4-40 Screwlocks (for .062" [1.58mm] PCB)						
25	Male	.125(3.18)	A23187-ND†	17.82	14.85	748027-1
With Retention 4-40 Screwlocks (for .062" [1.58mm] PCB) — RoHS Compliant						
9	Female	.125(3.18)	A35184-ND†★	9.24	7.70	5750678-1
15	Male	.125(3.18)	A35179-ND†	11.67	9.73	5748026-1
	Female	.125(3.18)	A35185-ND†★	10.74	8.95	5787683-1
25	Male	.125(3.18)	A34103-ND†	11.01	9.18	5748027-1
	Female	.125(3.18)	A35183-ND†★	11.10	9.25	5748612-1
37	Male	.125(3.18)	A35180-ND†	12.63	10.53	5787686-1
	Female	.125(3.18)	A35186-ND†★	16.95	14.13	5787685-1

† 30µ gold on mating end ‡ Gold flash on mating end
★ See Drawing for Dimension

Tyco Electronics AMP

Authorized Distributor

AMPLIMITE®
D-Sub Connectors
HDP-20 Zinc and Tin Plated Metal Shell

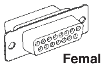
Female

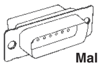
Male

Crimp Type

Pins and Sockets Sold Separately

Material and Finish: Shell: Steel, zinc or tin plated **Insert:** 94V-0 rated thermoplastic, black **Mounting Holes: Standard:** .120" (3.05mm) Diameter **Clinch Nut:** 4-40 threads with self-locking feature **Mounting Method: 1:** Standard; **2:** Clinch Nut

No. of Pos.	Sex	Mtg. Meth.	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Zinc Plated Shell						
9	Male	1	A31886-ND	1.14	.96	205204-9
	Female	1	A34104-ND	1.31	1.09	205203-8
15	Male	1	A34105-ND	1.63	1.36	205206-9
	Female	1	A34106-ND	1.45	1.21	205205-7
25	Male	1	A34107-ND	1.47	1.23	5205208-1
	Female	1	A34108-ND	1.25	1.05	5205207-1
	Female	2	A35200-ND	16.62	13.85	207516-6
37	Male	1	A34109-ND	2.31	1.93	205210-8
	Female	1	A34110-ND	2.31	1.93	205209-7
50	Male	1	A34111-ND	2.79	2.33	1658641-3
	Female	1	A34112-ND	2.79	2.33	1658640-2
Tin Plated Shell Without Grounding Indents						
9	Male	1	A31887-ND	1.49	1.25	205204-8
	Female	1	A1031-ND	.95	.80	205203-3
	Male	2	A35199-ND	12.60	10.50	1658642-2
	Female	2	A31921-ND	4.91	4.09	1658643-1
15	Male	1	A31888-ND	1.95	1.63	205206-8
	Female	1	A1033-ND	1.03	.86	205205-2
	Female	2	A31922-ND	4.74	3.95	1658644-1
25	Male	1	A31889-ND	1.82	1.52	207464-7
	Female	1	A1035-ND	1.19	.99	207463-1
	Female	2	A31917-ND	4.67	3.90	207516-5
37	Male	1	A31890-ND	2.31	1.93	205210-7
	Female	2	A34113-ND	7.20	6.00	5207661-3
50	Male	1	A31891-ND	6.30	5.25	1658641-1
	Female	1	A31893-ND	2.85	2.38	1658640-1
	Female	2	A35231-ND	10.44	8.70	5745884-1
Tin Plated Shell With Grounding Indents						
9	Male	1	A1038-ND	1.00	.84	205204-4
	Male	2	A31920-ND	4.58	3.82	1658642-1
15	Male	1	A1039-ND	1.19	.99	205206-3
25	Male	1	A1040-ND	1.04	.88	207464-2
	Male	2	A31918-ND	6.12	5.10	5745036-2
37	Male	2	A31919-ND	6.18	5.15	745135-4
	Male	1	A1041-ND	2.00	1.67	205210-3
50	Male	1	A31892-ND	2.14	1.78	1658641-2

HDP-20 Pins and Sockets

Crimp Type Pin Diameter: .040" (1.02mm)

Material: Pin: Brass – Phosphor bronze per QQ-B-750

Plated: A: Select – Gold flash over nickel on entire contact, with additional 30μ gold on mating end; **B:** Duplex – 30μ gold on mating end, tin-lead on termination end, with entire contact nickel underplated; **C:** Gold flash over nickel on entire contact; **D:** Duplex – Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated **E:** Duplex – 30μ gold on mating end, tin on termination end, with entire contact nickel underplated; **F:** Duplex – Gold flash on mating end, tin on termination end, with entire contact nickel underplated

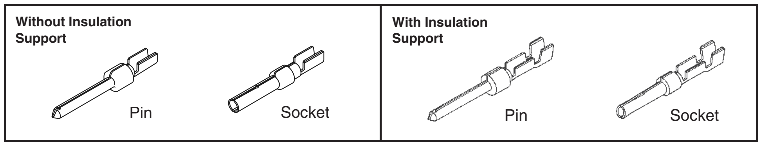

Desc.	AWG	Ins. Dia. In. (mm)	Cont. Fin.	Digi-Key Part No.	Loose Piece Pricing		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		Digi-Key Part No.	Strip Tape & Reel Pricing / 10,000	AMP Part No.
					10	100			100	500			
With Insulation Support													
Pin	28-24	.040 (1.02)	A	A1630-ND◆	2.39	16.67	66507-9	A1630CT-ND◆	14.34	59.75	A1630TR-ND◆	64.53/M	66507-3
Socket	28-24	.040 (1.02)	A	A1632-ND◆	2.65	18.53	66505-9	A1632CT-ND◆	13.04	54.33	A1632TR-ND◆	58.68/M	66505-3
Pin	28-24	.040 (1.02)	E	—	—	—	—	A31909CT-ND◆	8.92	37.18	A31909TR-ND◆	40.15/M	1658540-4
Socket	28-24	.040 (1.02)	E	—	—	—	—	A31906CT-ND◆	11.68	48.66	A31906TR-ND◆	58.40/M	1658538-2
Pin	28-24	.040 (1.02)	C	A23004-ND◆	2.19	15.31	1-66507-0	A23004CT-ND◆	11.92	49.65	A23004TR-ND◆	53.63/M	66507-4
Socket	28-24	.040 (1.02)	C	A23003-ND◆	2.43	17.01	1-66505-0	A23003CT-ND◆	16.30	67.91	A23003TR-ND◆	73.35/M	66505-4
Pin	28-24	.040 (1.02)	F	A31904-ND◆	2.07	16.52	1658540-2	A31904CT-ND◆	7.47	31.13	A31904TR-ND◆	33.62/M	1658540-1
Pin	28-24	.060 (1.52)	A	—	—	—	—	A23027CT-ND◆	9.77	40.73	A23027TR-ND◆	43.99/M	66683-2
Socket	28-24	.060 (1.52)	A	A23031-ND◆	3.99	27.87	66683-4	A23031CT-ND◆	18.47	76.96	A23031TR-ND◆	83.12/M	66683-2
Pin	28-24	.060 (1.52)	E	—	—	—	—	A31908CT-ND◆	22.93	95.54	A31908TR-ND◆	103.19/M	5066682-9
Pin	28-24	.060 (1.52)	F	—	—	—	—	A31907CT-ND◆	12.84	53.50	A31907TR-ND◆	57.78/M	5066682-6
Pin	26-22	.050 (1.27)	A	A24209-ND◆	2.43	17.00	745254-6	A24209CT-ND◆	15.26	63.59	A24209TR-ND◆	68.68/M	745254-2
Socket	26-22	.050 (1.27)	A	A23722-ND◆	2.65	18.53	745253-6	A23722CT-ND◆	21.68	90.35	A23722TR-ND◆	97.58/M	745253-2
Pin	26-22	.050 (1.27)	E	A31903-ND◆	2.53	20.22	1658544-1	A31903CT-ND◆	25.95	108.11	A31903TR-ND◆	116.77/M	1658544-2
Socket	26-22	.050 (1.27)	E	A31902-ND◆	2.75	22.04	1658543-1	A31902CT-ND◆	20.32	84.66	A31902TR-ND◆	91.44/M	1658543-2
Socket	26-22	.050 (1.27)	C	—	—	—	—	A23036CT-ND◆	22.17	92.38	A23036TR-ND◆	99.77/M	745253-3
Pin	26-22	.050 (1.27)	F	—	—	—	—	A31924CT-ND◆	12.84	53.50	A31924TR-ND◆	57.78/M	1658544-3
Socket	26-22	.050 (1.27)	F	—	—	—	—	A31901CT-ND◆	21.64	90.18	A31901TR-ND◆	97.39/M	1658543-3
Pin	24-20	.060 (1.52)	A	A1679-ND◆	2.14	19.20	66506-9	A1679CT-ND◆	9.70	40.40	A1679TR-ND◆	43.64/M	66506-3
Socket	24-20	.060 (1.52)	A	A1680-ND◆	2.27	20.33	66504-9	A1680CT-ND◆	14.99	62.48	A1680TR-ND◆	67.48/M	66504-3
Pin	24-20	.060 (1.52)	E	A31910-ND◆	2.48	19.83	1658539-3	A31910CT-ND◆	8.60	35.81	A31910TR-ND◆	38.68/M	1658539-1
Socket	24-20	.060 (1.52)	E	A31905-ND◆	2.75	22.04	1658537-4	A31905CT-ND◆	9.81	40.89	A31905TR-ND◆	44.16/M	1658537-3
Pin	24-20	.060 (1.52)	C	A1008-ND◆	2.19	19.58	1-66506-0	A1008CT-ND◆	14.30	59.56	A1008TR-ND◆	64.33/M	66506-4
Socket	24-20	.060 (1.52)	C	A1009-ND◆	2.32	20.73	1-66504-0	A1009CT-ND◆	9.21	38.39	A1009TR-ND◆	41.46/M	66504-4
Pin	24-20	.060 (1.52)	F	A31911-ND◆	1.80	14.43	1658539-4	A31911CT-ND◆	7.94	33.10	A31911TR-ND◆	35.75/M	1658539-2
Without Insulation Support - RoHS Compliant													
Socket	28-24	.068 (1.73)	A	—	—	—	—	A23055CT-ND	41.97	174.86	A23055TR-ND◆	188.86/M	205311-3
Pin	24-20	.068 (1.73)	A	—	—	—	—	A23017CT-ND	18.23	75.95	A23017TR-ND◆	82.03/M	205202-2
Socket	24-20	.068 (1.73)	C	—	—	—	—	A5805CT-ND	21.81	90.89	A5805TR-ND◆	98.16/M	205201-6
Pin	22-18	.068 (1.73)	A	—	—	—	—	A5802CT-ND	18.58	77.40	A5802TR-ND◆	83.60/M	745229-2
Socket	22-18	.068 (1.73)	A	—	—	—	—	A5804CT-ND	16.35	68.11	A5804TR-ND◆	73.57/M	745230-2
Socket	22-18	.040 (1.02)	C	A35203-ND◆	7.22	57.73	745230-7	A35203CT-ND	28.87	120.30	A35203TR-ND◆	129.93/M	745230-5
Pin	22-18	.068 (1.73)	E	—	—	—	—	A31923CT-ND	14.74	61.41	A31923TR-ND◆	66.33/M	1658541-1
Socket	22-18	.068 (1.73)	E	—	—	—	—	A31900CT-ND	21.91	91.30	A31900TR-ND◆	98.61/M	1658542-2

◆ ***RoHS Compliant***

Description	Digi-Key Part No.	Price Each	AMP Part No.
Crimp Tool for D-Sub Contacts with Die	A9990-ND	145.50	58448-2
Die Set for D-Sub Contacts, use with A9996	A9814-ND	111.00	58448-3
PRO-CRIMPER III Hand Tool without Die	A9996-ND	66.00	354940-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	51.00	679221-1
Pin Insertion/Extraction Tool for Snap-In Contacts	A1010-ND	5.40	91067-2

HDP-20 Solder Post Pins and Sockets

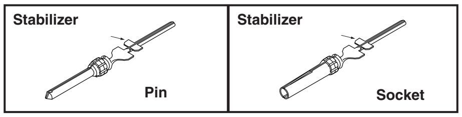

.025" (0.64mm) Square Posted, Snap-In, Precision Formed
Pin Diameter: .040" (1.02mm)

Material: Pin: Brass **Socket:** Phosphor bronze **Plated: A:** Duplex plated 30μ gold on mating end with entire contact 50μ minimum nickel underplated; **B:** Duplex plated gold flash on mating end with entire contact 50μ minimum nickel underplated

Description	Contact Finish	Post Length*	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Socket	A	.125" (3.18mm)	A31913-ND◆	.61	.49	5-745288-5
Pin	A	.188" (4.78mm)	A35204-ND◆	.54	.43	5-745287-4
Pin	A	.427" (10.85mm)	A23058-ND	.43	.30	745287-8
Pin	A	.427" (10.85mm)	A34115-ND◆	.70	.49	4-745287-7
Socket	A	.427" (10.85mm)	A31914-ND◆	.61	.49	5-745288-8
Socket	B	.427" (10.85mm)	A34116-ND◆	.70	.49	7-745288-2
Pin	A	.651" (16.54mm)	A34117-ND◆	.70	.49	5-745287-0
Socket	A	.651" (16.54mm)	A31912-ND◆	.61	.49	5-745288-1

* Length of post extending from rear of HDP-20 metal-shell Connector ◆ *RoHS Compliant*

HDP-20 Solder Cup Type Pins and Sockets

RoHS COMPLIANT

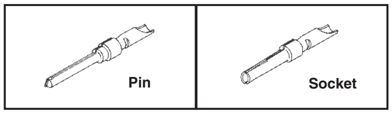

Pin Diameter: .040" (1.02mm)
Material: Pin: Brass per MIL-C-50 **Socket:** Phosphor bronze per QQ-B-750
Finish: Selective gold, 30μ gold over 50μ nickel

Description	Digi-Key Part No.	Pricing 10	100	Digi-Key Part No.	Tape and Reel Pricing 10,000	AMP Part No.
Pin, 18 AWG	A1028-ND	5.96	36.69	—	—	66570-3
	A1028CT-ND	2.63	24.32	A1028TR-ND	109.42/M	66570-2
Socket, 18 AWG	A1029-ND	3.55	31.79	—	—	66569-3
	A1029CT-ND	3.68	33.95	A1029TR-ND	152.77/M	66569-2
Pin Insertion/Extraction Tool for Snap-In Contacts	A1010-ND	5.40/1		—	—	91067-2

HDP-20 Connector Pins

RoHS COMPLIANT

AWG	Ins. Dia. In. (mm)	Amp Part No.
28-24	.040 (1.02)	1658540-3
24-20	.060 (1.52)	6-66506-2 1658539-5

Precision Formed

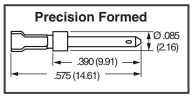

Material: Brass

Finish: Duplex plated 10μ minimum gold in the mating area, 30μ min. tin in the termination area, all over 30μ minimum nickel underplating

Digi-Key Part No.	Cut Strip Pricing 100	500	Strip Tape & Reel* Pricing/10,000	AMP Part No.
A31915CT-ND	9.99	41.61	44.95/M	1658539-5
A31916CT-ND	8.34	34.74	37.52/M	1658540-3

* For Tape and Reel part number, change CT-ND to TR-ND.

HDE-20 Socket

Interchangeable Contacts, Crimp Snap-In Precision Formed

Material: Phosphor bronze

Finish: Duplex plated 30μ gold on mating end, tin-lead on termination end, with entire contact nickel underplated

Wire Size: 22-18 AWG

Insulation Diameter: Single Wire: .075" (1.91mm), Two Wire: .054" (1.37mm)

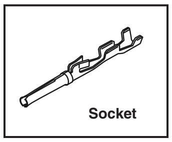

Digi-Key Part No.	Cut Strip Pricing 100	500	AMP Part No.
A23002CT-ND	95.95	399.79	745270-2
RoHS Compliant			
A34119CT-ND	101.70	423.76	1-745270-1
A34119TR-ND	4576.64/10,000		1-745270-1

HD-20 Solder Cup

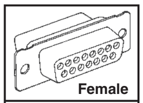

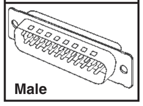

Connector comes complete with pins and sockets. Accepts 20 AWG or smaller solid or stranded wire.

Material and Finish: Shell:
Steel, tin or zinc plated **Insert:** 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze; duplex plated with gold flash on mating end, tin-lead on solder cup, with entire contact nickel underplated

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Tin Plated Shell					
9	Male	A32507-ND◆	3.39	2.83	5-747904-2
	Female	A32510-ND◆	2.94	2.45	5-747905-2
15	Male	A32503-ND◆	2.94	2.45	5-747908-2
	Female	A32504-ND◆	5.25	4.38	5-747909-2
25	Female	A32508-ND◆	4.80	4.00	5-747913-2
37	Male	A2046-ND	6.39	5.33	747916-2
	Male	A32506-ND◆	6.15	5.13	5-747916-2
	Female	A34114-ND◆	7.56	6.30	5-747917-2
Zinc Plated Shell					
9	Male	A23108-ND	2.85	2.38	747904-4
15	Male	A23110-ND	3.93	3.28	747908-4
25	Male	A32505-ND◆	4.08	3.40	5-747912-2
	Female	A23112-ND	7.08	5.90	747913-4
37	Male	A23113-ND	8.22	6.85	747916-4

◆ *RoHS Compliant*

HD-22 Front Metal-Shell Straight Posted

- **Shell:** steel, tin plated
- **Housing:** 94V-0 rated thermoplastic, black
- **Pin Contacts (Posted) Brass:** 30μ" gold on mating end, tin-lead, with entire contact 50μ minimum nickel underplated

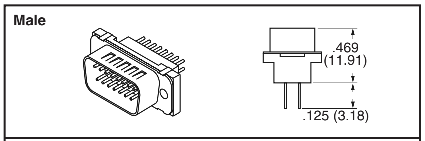

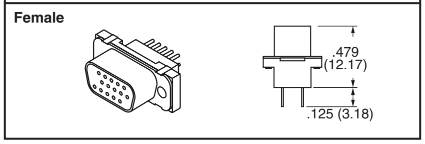

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
4-40 Threaded Inserts					
15	Male	A23071-ND	16.11	13.43	749798-1
15	Male	A31928-ND◆	15.81	13.18	5749798-1
26	Female	A23073-ND	20.61	17.18	749030-1
26	Female	A31964-ND◆	18.48	15.40	5749030-1
62	Female	A31963-ND◆	30.78	25.65	5747786-6

◆ *RoHS Compliant*

HDE-20 IDC Discrete Wire Type, Metal/Plastic Shell

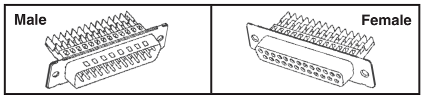

Material and Finish: Metal Shell: Steel, tin plated **Insert:** 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze
Plastic Housing: 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze
Contact Finish: Duplex plated; **A:** 30μ gold on mating end, tin-lead on termination end, with entire contact nickel underplated; **B:** Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated

No. of Pos.	Sex	Cont. Fin.	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Metal Shell for 30-26 AWG Wire — RoHS Compliant						
9	Male	A	A31965-ND	3.54	2.95	1-745492-7
	Female	A	A31973-ND	4.38	3.65	1-745491-6
15	Male	A	A31967-ND	6.06	5.05	1-745494-7
	Female	A	A31976-ND	10.44	8.70	1-745493-6
25	Male	A	A31969-ND	7.41	6.18	1-745496-9
	Female	A	A31978-ND	8.01	6.68	1-745495-7
37	Male	A	A31972-ND	11.31	9.43	1-745498-6
	Female	A	A31981-ND	13.71	11.43	1-745497-6
Metal Shell for 26-22 AWG Wire						
9	Male	A	A31930-ND◆	4.31	3.60	1-745492-8
	Female	A	A31931-ND◆	4.26	3.56	1-745491-7
	Male	B	A31929-ND◆	3.18	2.65	2-745492-0
	Female	B	A31975-ND◆	4.11	3.43	1-745491-8
15	Male	A	A34118-ND◆	6.27	5.23	1-745494-5
	Female	A	A31932-ND◆	5.85	4.88	1-745493-4
	Male	B	A31968-ND◆	7.92	6.60	1-745494-6
	Female	B	A31977-ND◆	8.79	7.33	1-745493-5
25	Male	A	A31933-ND◆	6.03	5.03	1-745496-7
	Female	A	A31934-ND◆	9.36	7.80	1-745495-8
	Male	B	A31971-ND◆	5.64	4.70	1-745496-8
	Female	B	A31980-ND◆	19.92	16.60	2-745495-0
37	Male	A	A1048-ND	9.87	8.23	745498-2
	Male	A	A31935-ND◆	7.71	6.43	1-745498-5
	Female	A	A31936-ND◆	9.45	7.88	1-745497-5
	Female	B	A35212-ND◆	17.58	14.65	1-745497-7
Metal Shell for 22-20 AWG Wire — RoHS Compliant						
9	Male	A	A31966-ND	4.29	3.58	1-745492-9
	Female	A	A31974-ND	4.77	3.98	1-745491-9
25	Male	A	A31970-ND	12.54	10.45	2-745496-0
	Female	A	A31979-ND	11.10	9.25	1-745495-9
Plastic Shell for 26-22 AWG Wire						
9	Male	A	A31937-ND◆	5.40	4.50	745203-9
	Female	A	A31938-ND◆	6.45	5.38	745201-7
	Male	B	A35210-ND◆	6.54	5.45	1-745203-1
	Female	B	A35211-ND◆	6.03	5.03	745201-9
15	Male	A	A31939-ND◆	7.65	6.38	745207-7
	Female	A	A31940-ND◆	4.86	4.05	745205-7
25	Male	A	A31941-ND◆	10.50	8.75	745211-7
	Female	A	A31942-ND◆	6.90	5.75	745209-7
37	Male	A	A2006-ND	14.34	11.95	745215-2
	Male	A	A31943-ND◆	14.49	12.08	745215-7

◆ *RoHS Compliant*

Description	Digi-Key Part No.	Price Each	AMP Part No.
Manual Pistol Grip Tool for Metal and All-Plastic Shell Connectors	A2031-ND	58.28	58074-1
Head Assembly Tool for D-Sub IDC Connectors	A2032-ND	207.90	58063-2

(Continued)

Series 109 Connectors for Crimp, Snap-In Contacts **(Per MIL-C-24308 Qualified Connectors)**

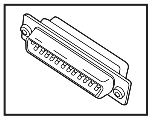

Class G steel shell has cadmium plating per ASTM-B633.
• Pins and Sockets Sold Separately • Only use sockets for Series 109 Connectors

No. of Positions	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Crimp Type					
9	Male	A2150-ND	4.20	3.50	205162-1
	Female	A2155-ND	4.20	3.50	205161-1
15	Male	A2151-ND	4.89	4.08	205164-1
	Female	A2156-ND	10.53	8.78	205163-1
25	Male	A2152-ND	10.62	8.85	205166-1
	Female	A2157-ND	10.62	8.85	205165-1
37	Male	A2153-ND	6.81	5.68	205168-1
Crimp Type — RoHS Compliant					
9	Male	A34120-ND	4.20	3.50	1757819-1
	Female	A32575-ND	4.20	3.50	1757820-1
15	Male	A32577-ND	4.89	4.08	1757819-2
	Female	A32576-ND	4.89	4.08	1757820-2
25	Male	A32578-ND	5.46	4.55	1757819-3
	Female	A34121-ND	5.46	4.55	1757820-3
37	Male	A34122-ND	6.81	5.68	1757819-4
	Female	A34123-ND	6.78	5.65	1757820-4
50	Male	A34124-ND	8.43	7.03	1757819-5
	Female	A34125-ND	8.43	7.03	1757820-5

Series 109 Screw-Machined Pins and Sockets

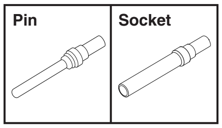

CRIMP TYPE: • Pin Diameter: .040" (1.02mm) **MATERIAL: • Pin Body:** Copper Alloy **• Socket Body:** Beryllium Copper **• Finish:** 50μ Gold **• Contact Size:** 20 DM **• Pin Diameter:** .040" (1.02mm) **• Test Current:** 7.5 amperes

Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
50μ Gold				
Pin (24-20 AWG)	A2160-ND	1.34	.82	205089-1
Socket (24-20 AWG)	A2161-ND	1.95	1.20	205090-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
Insertion/Extraction Tool for Series 109 D-Sub Crimp Contacts	A9979-ND	14.93	91285-1
Hand Crimping Tool for Screw-Machined Contacts (20DM)	A9977-ND	703.50	601966-1
Positioner (Use with A9977-ND)	A9797-ND	171.68	601966-5

High Density D-Sub Connectors

HDP-22 Crimp Type Tin Plated Shell

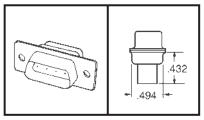

ELECTRICAL CHARACTERISTICS: • Contact Rating: 5.0 amperes **• Dielectric Strength:** 1000VAC minimum **• Insulation Resistance:** 5000MΩ minimum
MECHANICAL CHARACTERISTICS: • Contact Insertion Force: 3 pounds maximum **• Durability:** 30μ gold: 500 cycles; Gold Flash: 100 cycles

No. of Positions	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
15	Male	A2076-ND◆	3.42	2.85	748364-1
	Female	A31948-ND◆	3.70	3.09	1658681-1
26	Male	A31944-ND◆	5.61	4.68	1658671-1
	Female	A31949-ND◆	6.27	5.23	1658682-1
44	Male	A31945-ND◆	6.27	5.23	1658672-1
	Female	A31950-ND◆	7.95	6.63	1658683-1
62	Male	A31946-ND◆	6.03	5.03	1658673-1
	Female	A2084-ND	10.05	8.38	748568-1
	Female	A31951-ND◆	9.36	7.80	1658684-1
78	Male	A31947-ND◆	7.17	5.98	1658674-1
	Female	A31952-ND◆	9.87	8.23	1658685-1

◆ ***RoHS Compliant***

HDP-22 Pins and Sockets

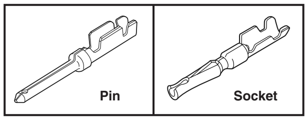

CRIMP TYPE:
Pin Diameter: .030" (.76mm)

MATERIAL:
Pin: Brass **Socket:** Phosphor bronze
Finish: 30μ Gold: Duplex plated 30μ gold on mating end, tin-lead on crimp barrel, with entire contact nickel underplated **Gold Flash:** Duplex plated gold flash on mating end, tin-lead on crimp barrel, with entire contact nickel underplated

Description	Digi-Key Part No.	Pricing 10	100	AMP Part No.
Pin (22-28 AWG), 30μ Gold	A31954-ND	1.97	15.73	1658670-2
Socket (22-28 AWG), 30μ Gold	A31955-ND	1.54	12.32	1658686-2
Pin (22-28 AWG), Gold Flash	A31953-ND	1.15	9.20	1658670-4
Socket (22-28 AWG), Gold Flash	A31956-ND	1.71	13.67	1658686-4

Description	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Strip T&R Pricing 20,000	AMP Part No.
Socket (22-28 AWG), Gold Flash	A31956CT-ND	16.05	66.88	A31956TR-ND	72.23/M	1658686-3
Pin (22-28 AWG), 30μ Gold	A31954CT-ND	8.41	35.04	A31954TR-ND	37.85/M	1658670-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
Insertion/Extraction Tool for High Density D-Sub Crimp Contacts	A9979-ND	14.93	91285-1
PRO-CRIMPER III Hand with Die for HDP-22 Contacts	A9815-ND	176.51	90800-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	51.00	679221-1
PRO-CRIMPER III Hand Tool without Die	A9996-ND	66.00	354940-1

High Density D-Sub Connectors

HD-22 Right Angle

ELECTRICAL CHARACTERISTICS: • Single Contact Current Rating: 2.0 amperes **• Dielectric Withstanding Voltage:** 1000VAC minimum
MATERIAL AND FINISH: • Front Shell: Steel, tin plated **• Housing:** 94 V-0 rated **• Socket Contacts:** Phosphor bronze **• Contact Finish:** Duplex Plated: 30μ gold mating end, tin-lead on termination end, with entire contact nickel underplated

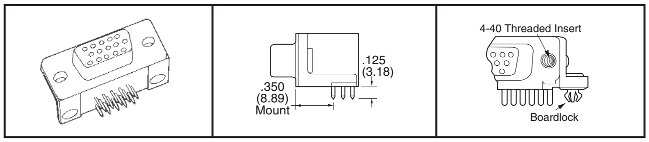

No. of Positions	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Threaded Inserts with Boardlocks — RoHS Compliant					
15	Male	A31927-ND	6.15	5.13	5749767-1
15	Female	A35116-ND‡	3.07	2.57	1-1734530-1
15	Female	A35119-ND‡	2.43	2.03	1734344-1
15	Female	A35120-ND◊	3.60	3.00	1734344-3
26	Female	A31925-ND	8.55	7.13	5748481-5
44	Female	A31957-ND▲	5.73	4.78	5748482-5
62	Male	A31926-ND	17.34	14.45	5749639-1
62	Female	A31958-ND▲	23.10	19.25	5748394-5
78	Female	A31962-ND	31.95	26.63	5748483-5
Screwlocks with Boardlocks					
15	Female	A35117-ND◆‡	1.97	1.65	1734530-1
15	Female	A35118-ND◆	2.99	2.49	1734530-3
15	Female	A35121-ND◆†▲	3.96	3.30	1734344-5
26	Female	A31961-ND◆	12.69	10.58	5748481-6
62	Female	A23065-ND	28.65	23.88	748394-6
62	Female	A31960-ND◆	20.07	16.73	5748394-6
Threaded Inserts without Boardlocks — RoHS Compliant					
26	Female	A31959-ND§	11.52	9.60	1-5748481-9

◆ ***RoHS Compliant*** § .125" (3.18mm) diameter holes † 2.67mm pin length
‡ Gold flash on mating end ◊ 10μ gold on mating end ▲ 15μ gold on mating end

SCSI Terminators

SCSI TYPES:

Single-Ended Active: Allows up to 5 megabytes per second. Also referred to as "Regulated" or "Boulay," these terminators include a voltage regulator along with resistors and capacitors. They support applications requiring longer cable lengths and faster data transmission rates. • Eighteen 110Ω resistors • Three or more capacitors • Two voltage reference resistors • One voltage regulator

Active Negation: Used by SCSI-2 and SCSI-3 Drivers and Receivers in single-ended active applications to help ensure clean, noise-free transitions of the signals. These terminators can source as well as sink current, thereby maintaining voltage control.

Fig. 1

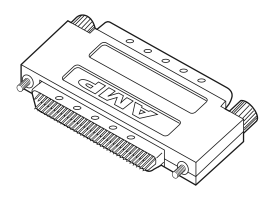

Fig. 2

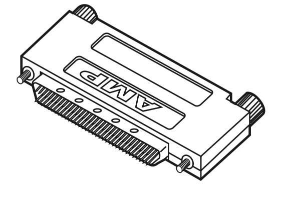

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Single-Ended Active						
1	68	Plug Feed-Thru to 68 Position Receptacle	A15043-ND	93.51	75.61	869684-1
Active Negation Compatible — RoHS Compliant						
2	68	.050" (1.27mm) Center-Line Ribbon Cable SCSI-3	A32160-ND	36.92	29.85	1696105-1

Shielding Hardware Kits

HDE-20 Basic Shielding Hardware Kits

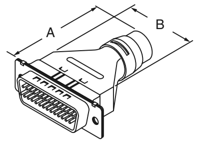

Kit Contents (unassembled): Connector, inner shield, outer shield **(ferrules must be purchased separately)**

Material and Finish: • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Contacts: Phosphor bronze • Contact Finish-Duplex Plated: **A:** 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated. **B:** Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Contact Finish	AWG	Dimensions - Inch (mm)		Digi-Key Part No.	Price Each		AMP Part No.
					A	B		1	25	
9	.350 (8.89)	Male	A	26-22	1.520 (38.61)	.678 (17.22)	A23518-ND	9.90	8.25	747515-2
	.350 (8.89)	Male	A	26-22	1.520 (38.61)	.678 (17.22)	A31540-ND◆	6.15	5.13	747515-7
	.350 (8.89)	Female	A	26-22	1.520 (38.61)	.678 (17.22)	A31541-ND◆	9.24	7.70	747516-7
	.350 (8.89)	Female	B	26-22	1.520 (38.61)	.678 (17.22)	A35213-ND◆	6.81	5.68	747516-9
25	.350 (8.89)	Male	A	26-22	1.520 (38.61)	1.550 (39.37)	A31542-ND◆	13.77	11.48	747547-9
	.350 (8.89)	Female	A	26-22	1.520 (38.61)	1.550 (39.37)	A31543-ND◆	10.41	8.68	747548-8
	.350 (8.89)	Male	B	26-22	1.520 (38.61)	1.550 (39.37)	A31509-ND◆	10.68	8.90	1-747547-0
	.350 (8.89)	Female	B	26-22	1.520 (38.61)	1.550 (39.37)	A31544-ND◆	8.97	7.48	747548-9
37	.450 (11.43)	Female	B	26-22	1.867 (47.42)	2.205 (56.01)	A31545-ND◆	21.96	18.30	747564-9

◆ ***RoHS Compliant*** † Maximum cable diameter after jacket and braid removed.

HDE-20 Basic Shielding Hardware Enclosure Kits

RoHS COMPLIANT

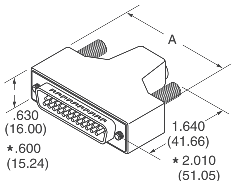

Kit Contents (unassembled): Connector, inner shield, outer shield, enclosure, two jackscrews **(ferrules must be purchased separately)**

Material and Finish: • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Enclosure: PVC, black • Jackscrews: Zinc alloy • Contacts: Phosphor bronze • Contact Finish - Duplex Plated: **A:** 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated **B:** Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Contact Finish	AWG	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
							1	25	
9	.350 (8.89)	Male	A	26-22	1.355 (34.42)	A31512-ND	11.10	9.25	1-747944-5
	.350 (8.89)	Male	B	26-22	1.355 (34.42)	A31513-ND	12.60	10.50	1-747944-6
	.350 (8.89)	Female	A	30-26	1.355 (34.42)	A31510-ND	11.37	9.48	1-747943-5
	.350 (8.89)	Female	A	26-22	1.355 (34.42)	A31511-ND	11.37	9.48	1-747943-6
	.350 (8.89)	Female	B	26-22	1.355 (34.42)	A35216-ND	19.86	16.55	1-747943-7
15	.350 (8.89)	Male	B	26-22	1.685 (42.80)	A31515-ND	13.11	10.93	1-747946-6
	.350 (8.89)	Female	A	30-26	1.685 (42.80)	A31514-ND	12.66	10.55	1-747945-5
	.350 (8.89)	Male	A	26-22	1.685 (42.80)	A35214-ND	18.09	15.08	1-747946-5
25	.350 (8.89)	Male	A	30-26	2.210 (56.13)	A31518-ND	7.08	5.90	1-747948-5
	.350 (8.89)	Male	A	26-22	2.210 (56.13)	A31519-ND	19.53	16.28	1-747948-6
	.350 (8.89)	Male	B	26-22	2.210 (56.13)	A31520-ND	16.77	13.98	1-747948-8
	.350 (8.89)	Female	A	26-22	2.210 (56.13)	A31516-ND	20.43	17.03	1-747947-6
	.350 (8.89)	Female	B	26-22	2.210 (56.13)	A31517-ND	22.65	18.88	1-747947-7
37	.562 (14.27)	Male	A	26-22	2.865 (72.77)	A35215-ND	19.62	16.35	1-747950-5

† Maximum cable diameter after jacket and braid removed

HDP-20 Shielding Hardware Enclosure Kits

RoHS COMPLIANT

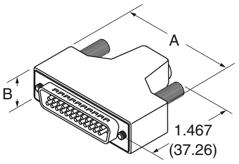

Kit Contents (unassembled):
Connector, inner shield, outer shield, enclosure, two jackscrews **(contacts and ferrules must be purchased separately)**

Material and Finish:
- Connector Shell: Steel, tin plated
- Connector Insert: 94V-0 rated thermoplastic, black
- Shield: Steel, tin plated
- Enclosure: PVC, black
- Jackscrews: Zinc alloy

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Dimensions - Inch (mm)		Digi-Key Part No.	Price Each		AMP Part No.
			A	B		1	25	
9	.350 (8.89)	Male	1.355 (34.42)	.630 (16.00)	A31493-ND	7.41	6.18	1658655-1
	.350 (8.89)	Female	1.355 (34.42)	.630 (16.00)	A31492-ND	8.13	6.78	1658654-1
15	.350 (8.89)	Male	1.685 (42.80)	.630 (16.00)	A31495-ND	7.41	6.18	1658657-1
	.350 (8.89)	Female	1.685 (42.80)	.630 (16.00)	A31494-ND	8.01	6.68	1658656-1
25	.350 (8.89)	Male	2.210 (56.13)	.630 (16.00)	A31497-ND	9.78	8.15	1658659-1
	.350 (8.89)	Female	2.210 (56.13)	.630 (16.00)	A31496-ND	9.99	8.33	1658658-1
37	.450 (11.43)	Male	2.865 (72.77)	.730 (18.54)	A31530-ND	19.65	16.38	5747958-1
	.450 (11.43)	Female	2.865 (72.77)	.730 (18.54)	A31498-ND	11.76	9.80	1658660-1
50	.450 (11.43)	Male	2.775 (70.49)	.730 (18.54)	A31499-ND	13.65	11.38	1658661-1
	.450 (11.43)	Female	2.775 (70.49)	.730 (18.54)	A31531-ND	19.59	16.33	5747959-1

† Maximum cable diameter after jacket and braid removed.

HDP-20 Basic Shielding Hardware Kits

RoHS COMPLIANT

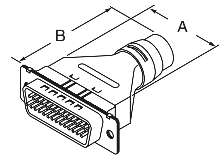

Kit Contents (unassembled):
Connector, inner shield, outer shield **(contacts and ferrules must be purchased separately)**

Material and Finish:
- Connector Shell: Steel, tin plated
- Connector Insert: 94V-0 rated thermoplastic, black
- Shield: Steel, tin plated

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Mounting Method	Dimensions - Inch (mm)		Digi-Key Part No.	Price Each		AMP Part No.
				A	B		1	25	
9	.350 (8.89)	Male	Standard	.700 (17.78)	1.535 (38.99)	A31483-ND	2.10	1.75	1648645-1
	.350 (8.89)	Female	Standard	.700 (17.78)	1.535 (38.99)	A31484-ND	1.86	1.56	1658646-1
	.350 (8.89)	Male	Clinch Nut	.700 (17.78)	1.535 (38.99)	A31536-ND	8.31	6.93	5748526-1
15	.350 (8.89)	Male	Standard	1.024 (26.01)	1.535 (38.99)	A31485-ND	2.24	1.87	1658647-1
	.350 (8.89)	Female	Standard	1.024 (26.01)	1.535 (38.99)	A31529-ND	2.38	1.99	5747539-1
	.350 (8.89)	Male	Clinch Nut	1.024 (26.01)	1.535 (38.99)	A35201-ND	9.63	8.03	5750636-1
25	.350 (8.89)	Male	Standard	1.576 (40.03)	1.535 (38.99)	A31486-ND	2.37	1.98	1658648-1
	.350 (8.89)	Female	Standard	1.576 (40.03)	1.535 (38.99)	A31487-ND	2.37	1.98	1658649-1
	.350 (8.89)	Female	Clinch Nut	1.576 (40.03)	1.535 (38.99)	A31500-ND	8.64	7.20	1658662-1
37	.450 (11.43)	Male	Standard	2.215 (56.26)	1.892 (48.06)	A31488-ND	3.74	3.12	1658650-1
	.450 (11.43)	Female	Standard	2.215 (56.26)	1.892 (48.06)	A31489-ND	6.69	5.58	1658651-1
	.450 (11.43)	Male	Clinch Nut	2.215 (56.26)	1.892 (48.06)	A35202-ND	8.88	7.40	5786929-1
44	.460 (11.68)	Female	Standard	1.576 (40.03)	1.535 (38.99)	A35207-ND	11.52	9.60	5748636-1
50	.450 (11.43)	Male	Standard	2.120 (53.85)	1.876 (47.65)	A31490-ND	9.00	7.50	1658652-1
	.450 (11.43)	Female	Standard	2.120 (53.85)	1.876 (47.65)	A31491-ND	7.44	6.20	1658653-1

† Maximum cable diameter after jacket and braid removed.

(Continued)

HDP-20 Preassembled Basic Shielding Hardware Kit

Preassembled connector kits are available in Subminiature D, shell size 2, 15-position configuration and accept crimp, snap-in HD-20 contacts.

Contacts are available separately and allow for selective positioning.

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
15	.350 (8.89)	Female	A31539-ND	21.27	17.73	5749246-1

† Maximum cable diameter after jacket and braid removed

HDP-22 Shielding Hardware Enclosure Kits - Crimp Snap-In Contact Connectors

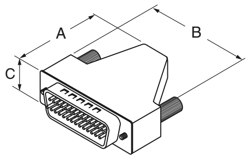

Kit Contents (unassembled):
Connector, inner shield, outer shield, enclosure, two jackscrews **(contacts and ferrules must be purchased separately)**

Material and Finish:
• Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Enclosure: PVC, black • Jackscrews: Zinc alloy

Plugs accept size 22 DF pin contacts and receptacles accept size 22 DF socket contacts

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	AMP Part No.
15	.350 (8.89)	Male	1.640 (41.66)	1.355 (34.42)	.630 (16.00)	A31504-ND	12.09	10.08	1658678-1
	.350 (8.89)	Female	1.640 (41.66)	1.355 (34.42)	.630 (16.00)	A31507-ND	13.05	10.88	1658688-1
26	.350 (8.89)	Male	1.640 (41.66)	1.685 (42.80)	.630 (16.00)	A31505-ND	13.08	10.90	1658679-1
	.350 (8.89)	Female	1.640 (41.66)	1.685 (42.80)	.630 (16.00)	A31508-ND	14.13	11.78	1658689-1
44	.350 (8.89)	Male	1.640 (41.66)	2.210 (56.13)	.630 (16.00)	A35208-ND	14.40	12.00	1658680-1
	.350 (8.89)	Female	1.640 (41.66)	2.210 (56.13)	.630 (16.00)	A35209-ND	15.54	12.95	5748641-1
62	.450 (11.43)	Male	2.010 (41.66)	2.860 (72.64)	.730 (18.54)	A31534-ND	17.04	14.20	5748476-1
	.450 (11.43)	Female	2.010 (51.05)	2.860 (72.64)	.730 (18.54)	A31538-ND	21.06	17.55	5748642-1
78	.450 (11.43)	Male	2.010 (51.05)	2.770 (70.36)	.730 (18.54)	A31535-ND	18.90	15.75	5748477-1

† Maximum cable diameter after jacket and braid removed

HDP-22 Basic Shielding Hardware Kits - Crimp Snap-In Contact Connectors

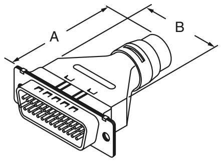

Kit Contents (unassembled):
Connector, inner shield, outer shield **(contacts and ferrules must be purchased separately)**

Material and Finish:
• Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated

Plugs accept size 22 DF pin contacts and receptacles accept size 22 DF socket contacts

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
15	.350 (8.89)	Male	1.535 (38.99)	.700 (17.78)	A31501-ND	2.73	2.28	1658675-1
	.350 (8.89)	Female	1.535 (38.99)	.700 (17.78)	A31537-ND	3.52	2.93	5748634-1
26	.350 (8.89)	Male	1.535 (38.99)	1.024 (26.01)	A31502-ND	9.00	7.50	1658676-1
	.350 (8.89)	Female	1.535 (38.99)	1.024 (26.01)	A31506-ND	10.14	8.45	1658687-1
44	.350 (8.89)	Male	1.535 (38.99)	1.576 (40.03)	A31503-ND	10.20	8.50	1658677-1
62	.450 (11.43)	Male	1.892 (48.06)	2.215 (56.26)	A31532-ND	12.06	10.05	5748471-1
78	.450 (11.43)	Male	1.876 (47.65)	2.120 (53.85)	A31533-ND	12.84	10.70	5748472-1

† Maximum cable diameter after jacket and braid removed

AMPLIMITE®

Die Sets and Ferrules for Shielding Hardware Kits

Material and Finish:
Steel (annealed), tin plated

Stepped	Straight
	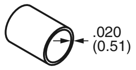

Cable Diameter Inch (mm)	Dimension - Length Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Stepped Ferrules					
.230 ~ .265 (5.84 ~ 6.73)	.625 (15.88)	A23557-ND	2.73	2.28	1-747580-0
Stepped Ferrules - RoHS Compliant					
.165 ~ .246 (4.19 ~ 6.25)	.440 (11.18)	A31524-ND	.39	.33	3-747579-0
.230 ~ .265 (5.84 ~ 6.73)	.625 (15.88)	A31546-ND	11.97	9.98	2-747580-4
.246 ~ .324 (6.25 ~ 8.23)	.440 (11.18)	A31525-ND	.28	.24	3-747579-2
.324 ~ .375 (8.23 ~ 9.53)	.440 (11.18)	A31526-ND	.34	.27	3-747579-4
.375 ~ .432 (9.53 ~ 10.97)	.625 (15.88)	A31522-ND	.60	.50	2-747580-1
.422 ~ .49 (10.72 ~ 12.45)	.625 (15.88)	A31528-ND	.60	.50	3-747580-1
Straight Ferrules - RoHS Compliant					
.375 ~ .435 (9.53 ~ 11.05)	.440 (11.18)	A31521-ND	.66	.55	2-747579-7
.400 ~ .455 (10.16 ~ 11.56)	.440 (11.18)	A31527-ND	.54	.45	3-747579-6
.480 ~ .562 (12.19 ~ 14.28)	.625 (15.88)	A31523-ND	.93	.78	2-747580-2

Cable Diameter Inch (mm)	Dimension - Length Inch (mm)	Digi-Key Part No.	Price Each	AMP Part No.
Crimp Tooling Stepped Ferrule Die Sets				
.217 ~ .246 (5.51 ~ 6.25)	.440 (11.18)	A23579-ND	469.53	543424-8
.246 ~ .284 (6.25 ~ 7.21)	.440 (11.18)	A23580-ND	469.53	543424-1
Hand Crimping Tool (for above die sets)..		A23576-ND	692.16	543344-1

Fig. 1

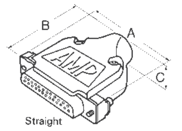

Die Cast Shield: Zinc alloy, plated nickel over copper **Metal-Plated Plastic Shield:** Thermoplastic, plated nickel over copper **Plastic Shield:** Thermoplastic, black

Fig. 2

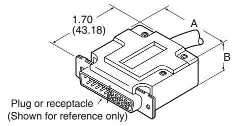

Cable Clamp Housing: Thermoplastic, black with textured finish **Gates:** Thermoplastic, black **Flat Head Screws:** Steel, black, zinc plated

Fig. 3

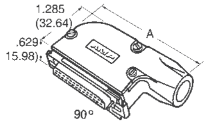

ETHERNET Slide-locking hood. 90° exit RFI/EMI die cast shields **Shield:** Zinc alloy, plated nickel over copper

Fig. 4

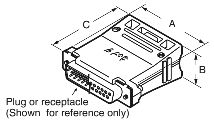

Cable Clamp Housing: Thermoplastic **4-40 Mounting Screws:** Steel, zinc plated **Flat 4-40 Housing Screws:** Steel, zinc plated

Fig. 5

Plastic Shield: Each kit contains: 1-Hinged Plastic Clamp, 2-Retention Screws, 2-Retention Clips, 1-Cable Gate Plug, 1-Strain Relief Clip, 2-Self Tapping Screws, 1-Connector and Contacts. **Material and Finish: Cover:** Polypropylene, black. **Retention/Self-Tapping Screws:** Steel, zinc plated. **Retention Clips/Strain Relief Clip:** Stainless steel. **Cable Gate Plug:** Polypropylene.

Plastic Shield with Connector: Each kit contains: 1-Hinged Plastic Clamp, 2-Self Tapping Screws, 1- Strain Relief Clip, 1-Cable exit gate plug (used to close unused exit). **Material and Finish: Cover:** Polypropylene, black. **Strain Relief Clip:** Stainless steel. **Retainer Clip:** Stainless steel. **Screws:** Carbon steel, zinc plated

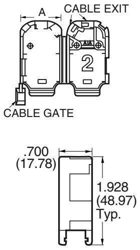

Fig. 6

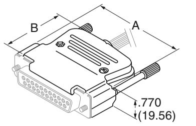

Cable Clamp Housing: Polyester, black **4-40 Fillister Head Screws & Hex Nuts:** Steel, clear zinc plated **Jack Screws:** Steel, black zinc plated

Fig. 7

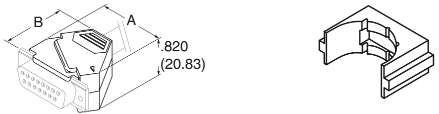

(Straight Cable Exit Shown)

Straight/90° Exit Cable Clamps can be used on a plug or receptacle and will not interfere with commonly used mating hardware. Their three-piece construction allows easy assembly to a cable harness. Also, the same cable clamp components are used for both straight and 90° cable exit applications. This is accomplished by simply positioning the Male and Female Panels on the Yoke for the desired angle. **Material:** Thermoplastic, black

Fig. 8

Straight/45° Exit Cable Clamps can be used on either a plug or receptacle and will not interfere with commonly used hardware, such as Male Screw Retainers, Female Screw-locks or Spring Latches and Latching Blocks. Their hinged construction allows easy assembly to a harness. Also, the straight or 45° angle of the cable exit is achieved by merely positioning the Cable Support Gate for the desired angle prior to installing the assembly onto the plug or receptacle.

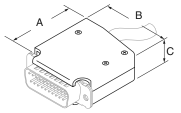

Material and Finish: Cable Clamp Housing: Thermoplastic, black with textured finish **Gates:** Thermoplastic, black **Pan Head Screw, 6-32 Set Screw and 6-32 Square Nut:** Steel, zinc plated (9 & 15 positions include self-tapping screws only)

Fig. 9

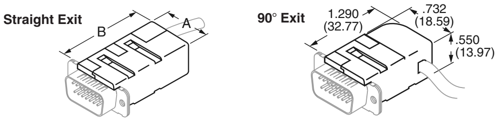

Low Profile Cable Clamps feature a two piece construction which allows the two cover halves to be snapped together, no hardware is required for assembly. They can be used on plugs or receptacles and will not interfere with commonly used mating hardware. Sufficient Cable Support Gates (or a Cable Support Latch) are supplied with each cable clamp kit to achieve adjustable clamping over a wide range of jacketed cable diameters. **Material:** Thermoplastic, black

Note: To be used with HDE connectors only

Fig. 10

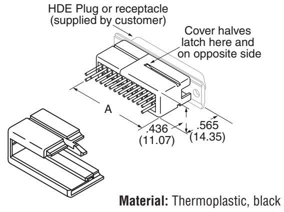

Material: Thermoplastic, black

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	C	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shielded Straight Shell with Grommets (Hardware Included)										
1	15	1.545	1.910	.620	(8.13)	Metal Plated	A2067-ND†	8.28	6.90	748677-2
		(39.24)	(48.51)	(15.75)						
Shielded Straight Shell with Grommets (Hardware Included) RoHS Compliant										
1	9	1.215	1.910	.550	.320	Die Cast	A34126-ND†	6.75	5.63	5748676-1
		(30.86)	(48.51)	(13.97)	(8.13)	Metal Plated	A34127-ND†	4.53	3.78	5748677-1
	15	1.545	1.910	.620	.320	Die Cast	A34128-ND†	6.87	5.73	5748676-2
		(39.24)	(48.51)	(15.75)	(8.13)	Metal Plated	A34129-ND†	7.83	6.53	5748677-2
	25	2.090	1.920	.680	.470	Metal Plated	A34130-ND†	4.87	4.07	5748677-3
		(53.09)	(48.77)	(17.27)	(11.94)	Die Cast	A34131-ND†	7.17	5.98	5748676-3
	37	2.738	1.920	.800	.470	Die Cast	A34132-ND†	10.80	9.00	5748676-4
		(69.55)	(48.77)	(20.32)	(11.94)	Metal Plated	A34133-ND†	11.70	9.75	5748677-4
	50	2.644	1.920	.900	.470	Die Cast	A34134-ND†	13.65	11.38	5748676-5
		(67.16)	(48.77)	(22.86)	(11.94)	Metal Plated	A34135-ND†	20.34	16.95	5748677-5
Shielded Straight Shell (Must Order Ferrule & Grommets Separately)										
1	9	1.215	1.910	.550	.200	Metal Plated	A23656-ND	5.31	4.43	745854-5
		(30.86)	(48.51)	(13.97)	(5.08)					
	15	1.545	1.910	.620	.225 (5.72)	Metal Plated	A23662-ND	7.38	6.15	747099-7
		(39.24)	(48.51)	(15.75)	.375 (9.53)	Die Cast	A2014-ND	8.13	6.78	745172-1
		1.545	1.805	.620	.375	Die Cast	A23673-ND	9.06	7.55	745919-2
		(39.24)	(45.85)	(15.75)	(9.53)					
	50	2.644	1.920	.900	.600 (15.24)	Die Cast	A23645-ND	11.49	9.58	745175-3
		(67.16)	(48.77)	(22.86)						
Shielded Straight Shell (Must Order Ferrule & Grommets Separately) RoHS Compliant										
1	9	1.215	1.910	.550	.200	Die Cast	A34136-ND	7.83	6.53	5745171-2
		(30.86)	(48.51)	(13.97)	(5.08)	Metal Plated	A34137-ND	6.87	5.73	5745854-5
					.250	Die Cast	A34138-ND	7.08	5.90	5745171-1
					(6.35)	Metal Plated	A34139-ND	4.87	4.07	5745854-3
					.370	Die Cast	A34140-ND	9.06	7.55	5745171-5
					(9.40)	Metal Plated	A34141-ND	5.01	4.18	5745854-1
1	15	1.545	1.910	.620	.225 (5.72)	Die Cast	A34142-ND	8.04	6.70	5745172-3
		(39.24)	(48.51)	(15.75)	.300	Die Cast	A34144-ND	8.88	7.40	5745172-2
					(7.62)	Metal Plated	A34145-ND	6.99	5.83	5747099-5
					.375	Die Cast	A34146-ND	7.80	6.50	5745172-1
					(9.53)	Metal Plated	A34147-ND	4.95	4.13	5747099-3
					.430	Die Cast	A34148-ND	8.25	6.88	1-5745172-3
					(10.92)	Metal Plated	A34149-ND	7.47	6.23	5747099-1
		1.545	1.805	.620	.430	Die Cast	A35218-ND	47.19	39.33	5745919-1
		(39.24)	(45.85)	(15.75)	(10.92)					
	25	2.090	1.920	.680	.280	Die Cast	A34151-ND	9.36	7.80	5745173-5
		(53.09)	(48.77)	(17.27)	(7.11)	Metal Plated	A34152-ND	6.25	5.21	5745833-9
					.350	Die Cast	A34153-ND	7.47	6.23	5745173-4
					(8.89)	Metal Plated	A34154-ND	7.29	6.08	5745833-7
					.430	Die Cast	A34155-ND	7.47	6.23	5745173-3
					(10.92)	Metal Plated	A34156-ND	5.04	4.20	5745833-5
					.480 (12.19)	Die Cast	A34157-ND	9.90	8.25	5745173-2
					.530 (13.46)	Metal Plated	A34158-ND	7.14	5.95	5745833-1
	37	2.738	1.920	.800	.350 (8.89)	Die Cast	A34159-ND	10.05	8.38	5745174-5
		(69.55)	(48.77)	(20.32)	.425 (10.80)	Die Cast	A34160-ND	10.08	8.40	5745174-4
					.500 (12.70)	Die Cast	A34161-ND	9.96	8.30	5745174-3
					.575 (14.61)	Die Cast	A34163-ND	11.70	9.75	5745174-2
					.650	Die Cast	A34165-ND	10.08	8.40	5745174-1
					(16.51)	Metal Plated	A34166-ND	7.20	6.00	5747100-1
	50	2.644	1.920	.900	.450 (11.43)	Die Cast	A34167-ND	14.34	11.95	5745175-5
		(67.16)	(48.77)	(22.86)	.525 (13.34)	Die Cast	A34168-ND	10.32	8.60	5745175-4
					.600 (15.24)	Die Cast	A34169-ND	10.86	9.05	5745175-3
					.675 (17.15)	Die Cast	A34170-ND	10.41	8.68	5745175-2
					.750 (19.05)	Die Cast	A34171-ND	10.20	8.50	5745175-1
					.750 (19.05)	Metal Plated	A35217-ND	10.59	8.83	5747098-1
Straight Shield with Grommets (Hardware Included)										
1	9	1.215	1.910	.570	.320 (8.13)	Plastic, Black	A2071-ND†	4.59	3.83	748678-1
		(30.86)	(48.51)	(14.48)						

† Sold as a kit; complete with Ferrule and Grommets

(Continued)

Hoods *(Cont.)*

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	C	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Straight Shield with Grommets (Hardware Included) RoHS Compliant										
1	9	1.215 (30.86)	1.910 (48.51)	.570 (14.48)	.320 (8.13)	Plastic, Black	A34172-ND†	3.56	2.97	5748678-1
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.320 (8.13)	Plastic, Black	A34173-ND†	5.46	4.55	5748678-2
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.470 (11.94)	Plastic, Black	A34174-ND†	3.84	3.21	5748678-3
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.470 (11.94)	Plastic, Black	A34175-ND†	4.53	3.78	5748678-4

† Sold as a kit; complete with Ferrule and Grommets

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	Max. Cable Diameter Inch (mm)	Descrip. (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shield Straight / 90° Shield (Hardware Included) — RoHS Compliant									
2	9	.755 (19.18)	.635 (16.13)	.160 (4.06)	Plastic	A9001-ND	3.08	2.57	207467-1
	15	1.078 (27.38)	.635 (16.13)	.320 (8.13)	Plastic	A9002-ND	3.79	3.16	207470-1
	25	1.620 (41.15)	.770 (19.56)	.390 (9.91)	Plastic	A9003-ND	3.88	3.24	207345-1
	37	2.268 (57.61)	.770 (19.56)	.640 (16.26) Straight .405 (10.29) 90°	Plastic	A9004-ND	3.99	3.33	207473-1
	50	2.178 (55.32)	.880 (22.35)	.490 (12.45)	Plastic	A2060-ND	4.02	3.35	207476-1
Plastic Shield with Male Screw Retainers (Hardware Included) RoHS Compliant									
2	9	.755 (19.18)	.635 (16.13)	.160 (4.06)	Plastic	A33653-ND	3.56	2.97	5207908-1
	15	1.078 (27.38)	.635 (16.13)	.320 (8.13)	Plastic	A33654-ND	4.47	3.73	5207908-4
	25	1.620 (41.15)	.770 (19.56)	.390 (9.91)	Plastic	A33655-ND	4.04	3.37	5207908-7
	37	2.268 (57.61)	.770 (19.56)	.640 (16.26) Straight .405 (10.29) 90°	Plastic	A33656-ND	4.71	3.93	1-5207908-0

Fig.	No. of Pos.	Dimension Inch (mm) A	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
90° Shell - Hardware Included (Must Order Ferrule Separately)								
3	15	2.310 (58.67)	.430 (10.92)	Die Cast	A2036-ND	23.55	19.63	745652-1
90° Shell - Hardware Included (Must Order Ferrule Separately) RoHS Compliant								
3	15	2.310 (58.67)	.225 (5.72)	Die Cast	A33657-ND	26.49	22.08	5745652-4
			.300 (7.62)	Die Cast	A33658-ND	15.69	13.08	5745652-3
			.375 (9.53)	Die Cast	A33659-ND	15.75	13.13	5745652-2
			.430 (10.92)	Die Cast	A33660-ND	15.33	12.78	5745652-1
	25	2.850 (72.39)	.280 (7.11)	Die Cast	A33661-ND	18.69	15.58	5745653-5
			.355 (9.02)	Die Cast	A33662-ND	18.75	15.63	5745653-4
			.430 (10.92)	Die Cast	A33663-ND	18.51	15.43	5745653-3
			.480 (12.19)	Die Cast	A33664-ND	21.18	17.65	5745653-2
			.530 (13.46)	Die Cast	A33665-ND	22.20	18.50	5745653-1

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	C	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Straight / 90° Shield (Hardware Included) — RoHS Compliant										
4	15	1.550 (39.37)	.826 (20.98)	1.750 (44.45)	.350 (8.89)	Plastic, Gray	A33666-ND	4.17	3.48	5206471-1
	25	2.090 (53.09)	.826 (20.98)	1.750 (44.45)	.335 (8.51)	Plastic, Gray	A33667-ND	4.17	3.48	5206472-1
		2.090 (53.09)	.826 (20.98)	1.750 (44.45)	.460 (11.68)	Plastic, Gray	A33668-ND	4.14	3.45	5745134-1
	37	2.738 (69.55)	.826 (20.98)	1.750 (44.45)	.675 (17.15)	Plastic, Gray	A33669-ND	4.44	3.70	5745081-1
	50	2.644 (67.16)	.938 (23.83)	1.750 (44.45)	.775 (19.69)	Plastic, Gray	A33670-ND	4.53	3.78	5745082-1

Fig.	No. of Pos.	Dimension Inch (mm) A	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Plastic Shield (Hardware Included) RoHS Compliant								
5	9	.782 (19.86)	.250 (6.35)	with Screws	A33671-ND	2.19	1.83	5749914-2
				without Screws	A33672-ND	3.48	2.90	5750100-1
	15	1.105 (28.07)	.380 (9.65)	with Screws	A33673-ND	2.76	2.30	5749915-2
	25	1.650 (41.91)	.460 (11.68)	with Screws	A33674-ND	6.18	5.15	5749626-2
Plastic Shield with Connector (Hardware Included) — RoHS Compliant								
5	25	1.650 (41.91)	.460 (11.68)	Recpt./HDP-20	A32176-ND	13.11	10.93	1-749812-1
				Plug/HDE-20	A32175-ND	7.23	6.03	749809-9
				Recpt./HDE-20	A32177-ND	15.21	12.68	749813-8

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Unshielded Dataphone — RoHS Compliant									
6	15	1.575 (40.01)	1.312 (33.32)	.400 (10.16)	Straight	A33675-ND	11.43	9.53	5745122-2
	25	2.115 (53.72)	1.421 (36.09)	.500 (12.7)	Straight	A33676-ND	10.17	8.48	5745121-2
7	25	1.906 (48.41) 2.066 (52.48)	1.672 (42.47) 1.396 (35.46)	.550 (13.97) .550 (13.97)	Straight 90°	A23604-ND	6.90	5.75	745306-1

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	C	Max. Cable Diameter Inch (mm)	Descrip. (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Straight / 45° Exit Unshielded Shell (Hardware Included)										
8	9	1.625 (41.28)	.750 (19.05)	.620 (15.75)	.256 (6.50)	Plastic	A32178-ND◆	2.84	2.37	5205729-1
	15	1.250 (31.75)	1.073 (27.25)	.580 (14.73)	.320 (8.13)	Plastic	A33677-ND◆	4.47	3.73	5206393-1
	15	1.625 (41.28)	1.073 (27.25)	.620 (15.75)	.320 (8.13)	Plastic	A33678-ND◆	3.45	2.88	5205730-1
	25	1.625 (41.28)	1.615 (41.02)	.620 (15.75)	.420 (10.67)	Plastic	A33679-ND◆	2.61	2.18	5205718-1
	37	1.625 (41.28)	2.263 (57.48)	.620 (15.75)	.490 (12.45)	Plastic	A32179-ND◆	4.26	3.55	5205731-1
	50	1.625 (41.28)	2.168 (55.07)	.730 (18.54)	.600 (15.24)	Plastic	A23630-ND A33680-ND◆	3.87 4.23	3.23 3.53	205732-1 5205732-1
Straight / 45° Exit Shell with Male Screw Retainers (Hardware Included)										
8	9	1.625 (41.28)	.750 (19.05)	.620 (15.75)	.256 (6.50)	Plastic	A23633-ND A33681-ND◆	3.87 3.00	3.23 2.50	206478-1 5206478-1
	25	1.250 (31.75)	1.615 (41.02)	.580 (14.73)	.420 (10.67)	Plastic	A33682-ND◆	12.72	10.60	1-5206478-2
	25	1.625 (41.28)	1.615 (41.02)	.620 (15.75)	.420 (10.67)	Plastic	A33683-ND◆	3.08	2.57	5206478-3

◆ *RoHS Compliant*

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Unshielded Low Profile for Jacketed Cable — RoHS Compliant									
9	9	.732 (18.59)	1.582 (40.18)	.330 (8.38)	Straight	A23592-ND‡	8.31	6.93	745547-1
		—	—	.330 (8.38)	90°	A23594-ND‡	3.66	3.05	745550-1
	15	1.056 (26.82)	1.582 (40.18)	.425 (10.80)	Straight	A23595-ND‡	10.98	9.15	745553-1
	25	1.604 (40.74)	1.700 (43.18)	.550 (13.97)	Straight	A23596-ND‡	9.96	8.30	745560-1

‡ To be used with HDE connectors only

Fig.	No. of Positions	Dimension Inch (mm) A	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Unshielded Plastic Slide-On Back Covers — RoHS Compliant						
10	25	1.482 (37.64)	A23600-ND	5.21	4.35	745530-3

AMPLIMITE® Ferrules For Metal Shell Hoods

Split-Ring Ferrules for Foil or Braided Cable Shield

- Material: Aluminum

Crimp Ferrules for Braided Cable Shield

- Material and Finish:
  Outer Ferrule: Copper, plated 100µ minimum tin
  Inner Ferrule: .023" (0.58mm) thick brass, plated 50µ tin over copper

SPLIT RING FERRULE

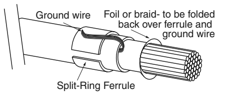
Ground wire
Foil or braid- to be folded back over ferrule and ground wire
Split-Ring Ferrule

CRIMP FERRULE

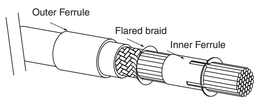

No. of Positions	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Split-Ring Ferrules					
9/15	.225 - .240 (5.72 - 6.10)	A2011-ND	.42	.36	745508-3
9/15/50	.370 - .375 (9.40 - 9.53)	A2019-ND	.44	.37	745508-6
37/50	.560 - .600 (14.22 - 15.24)	A35219-ND	.71	.59	1-745508-0
50	.410 - .450 (10.41 - 11.43)	A35220-ND	2.21	1.85	745508-7
Inner Crimp Ferrules					
9/50	.240 (6.10)	A32165-ND	2.17	1.81	7-745129-0
9	.280 (7.11)	A32171-ND	1.67	1.40	7-745129-9
9/50	.365 - .370 (9.27 - 9.40)	A32164-ND	1.83	1.53	6-745129-9
15/37	.350 (8.90)	A32170-ND	1.16	.97	7-745129-2
15/37	.430 (10.92)	A32166-ND	1.54	1.29	7-745129-1
37	.525 (13.34)	A32174-ND	3.53	2.95	7-745129-6
25/50	.380 - .430 (9.65 - 10.92)	A35221-ND	2.85	2.38	7-745129-5
Outer Crimp Ferrules					
9/15/25/37/50	.240 (6.10)	A32172-ND	1.51	1.26	3-745130-8
9/15/25/37	.280 (7.11)	A32169-ND	1.19	1.00	4-745130-5
9/15/50	.365 - .370 (9.27 - 9.40)	A32167-ND	2.35	1.96	4-745130-0
15/25/37/50	.350 (8.90)	A32173-ND	1.01	.85	3-745130-9
15/25/37/50	.430 (10.92)	A32168-ND	.87	.73	4-745130-1
37/50	.240 (6.10)	A32163-ND	.60	.50	2-747580-3

SERIES 90

Fig. 1

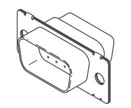

Fig. 2

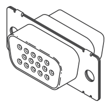

High Density Crimp Type Connectors

Material and Finish: • Shell: Steel, cadmium plated • Insert: Approved material per MIL-DTL-24308 • Retention Clips: Stainless steel or copper alloy

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
			Plugs			
1	15	A34440-ND	24.42	20.35	16.28	1757823-7
	26	A34442-ND	35.19	29.33	23.46	1757823-8
	44	A34444-ND	46.86	39.05	31.24	1757823-9
	62	A34446-ND	61.92	51.60	41.28	1-1757823-0
	78	A34448-ND	73.50	61.25	49.00	1-1757823-1
	104	A34450-ND	94.26	78.55	62.84	1-1757823-2
			Receptacles			
2	15	A34439-ND	31.74	26.45	21.16	1757824-7
	26	A34441-ND	49.35	41.13	32.90	1757824-8
	44	A34443-ND	57.60	48.00	38.40	1757824-9
	62	A34445-ND	83.19	69.33	55.46	1-1757824-0
	78	A34447-ND	97.29	81.08	64.86	1-1757824-1
	104	A34449-ND	126.90	105.75	84.60	1-1757824-2

Non-Magnetic High Density Crimp Type Connectors

Material and Finish: • Shell: Brass, gold plated • Insert: Approved material per MIL-DTL-24308 • Retention Clips: Copper alloy
Contact Material and Finish: • Copper alloy, .000050-.000100 (0.00127-0.0254) thick gold plate over .000100-.000150 (0.0254-0.00381) thick copper under plate

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
			Plugs			
1	15	A34472-ND	45.90	38.25	30.60	206498-4
	26	A34474-ND	49.56	41.30	33.04	206500-4
	44	A34476-ND	57.84	48.20	38.56	206063-4
	62	A34478-ND	71.04	59.20	47.36	206502-4
	78	A34480-ND	84.24	70.20	56.16	206504-4
	104	A34483-ND	85.92	71.60	57.28	206066-4
			Receptacles			
2	15	A34473-ND	45.90	38.25	30.60	206499-4
	26	A34475-ND	49.56	41.30	33.04	206501-4
	44	A34477-ND	57.84	48.20	38.56	206064-4
	78	A34481-ND	84.24	70.20	56.16	206505-4
	104	A34482-ND	85.92	71.60	57.28	206065-4

Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
	Series 90 - High Density Contacts			
Pin 22-28 AWG, 50μ Gold	A34528-ND	1.14	.70	204370-2
Socket 22-28 AWG, 50μ Gold	A34527-ND	1.69	1.04	204351-1
	Series 90 - Non-Magnetic High Density Contacts			
Pin 22-28 AWG, 50μ Gold	A34484-ND	1.39	.85	204370-8
Pin 26-28 AWG, 50μ Gold	A34485-ND	3.25	2.00	206495-3
Socket 22-28 AWG, 50μ Gold	A34486-ND	2.12	1.30	206071-1
Socket 26-28 AWG, 50μ Gold	A34487-ND	5.33	3.28	206496-1
	Series 90 - Tooling			
Insertion/Extraction Tool	A34451-ND	5.63/1		91067-1
Replacement Insertion Tip Use with 91067-1	A34452-ND	2.70/1		126237-1
Replacement Extraction Tip Use with 91067-1	A34453-ND	3.75/1		126195-2
Hand Crimping Tool for Screw-Machined Contacts (20DM)	A9977-ND	703.50/1		601966-1
Socket Positioner Tool Use with 601966-1	A34489-ND	163.80/1		601966-4
Pin Positioner Tool Use with 601966-1	A34490-ND	154.35/1		601966-6

SERIES 109

Fig. 1

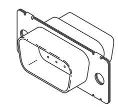

Fig. 2

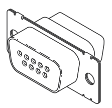

Standard Density Crimp Type Connectors

Material and Finish: • Shell: Steel, cadmium plated • Insert: Approved material per MIL-DTL-24308 • Retention Clips: Stainless steel

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
			Plugs			
1	9	A34455-ND	14.70	12.25	9.80	1757819-6
	15	A34457-ND	20.34	16.95	13.56	1757819-7
	25	A34459-ND	26.64	22.20	17.76	1757819-8
	37	A34461-ND	37.20	31.00	24.80	1757819-9
	50	A34463-ND	48.60	40.50	32.40	1-1757819-0
			Receptacles			
2	9	A34454-ND	17.22	14.35	11.48	1757820-6
	15	A34456-ND	24.54	20.45	16.36	1757820-7
	25	A34458-ND	33.84	28.20	22.56	1757820-8
	37	A34460-ND	47.40	39.50	31.60	1757820-9
	50	A34462-ND	61.20	51.00	40.80	1-1757820-0

Non-Magnetic Standard Density Crimp Type Connectors

Material and Finish: • Shell: Brass, gold plated • Insert: Approved material per MIL-DTL-24308 • Retention Clips: Stainless steel or copper alloy
Contact Material and Finish: • Copper alloy plated gold .000050-.000100 (0.00127-0.00254) thick over .000100-.000150 (0.00254-0.00381) copper under plate

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
			Plugs			
1	9	A34491-ND	31.11	25.93	20.74	207252-2
	15	A34493-ND	37.17	30.98	24.78	206798-2
	25	A34495-ND	128.52	107.10	85.68	206800-2
	37	A34497-ND	50.58	42.15	33.72	206802-2
	50	A34499-ND	57.99	48.33	38.66	206804-2
			Receptacles			
2	9	A34492-ND	96.00	80.00	64.00	207253-2
	15	A34494-ND	37.17	30.98	24.78	206799-2
	25	A34496-ND	41.64	34.70	27.76	206801-2
	37	A34498-ND	50.58	42.15	33.72	206803-2
	50	A34500-ND	59.28	49.40	39.52	206805-2

Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
	Series 109 - Contacts			
Pin 20-24 AWG, Gold Flash	A34466-ND	.63	.39	1218371-1
Socket 20-24 AWG, Gold Flash	A34467-ND	.91	.56	1218372-1
Pin 20-24 AWG, 50μ Gold	A2160-ND	1.34	.82	205089-1
Socket 20-24 AWG, 50μ Gold	A2161-ND	1.95	1.20	205090-1
	Series 109 - Non-Magnetic Contacts			
Pin 26-28 AWG, 50μ Gold	A34501-ND	2.05	1.26	206794-4
Socket 26-28 AWG, 50μ Gold	A34502-ND	4.52	2.78	206795-3
	Series 109 - Tooling			
Pin Insertion/Extraction Tool for Snap-In Contacts	A1010-ND	5.40/1		91067-2
Replacement Insertion Tip Use with 91067-2	A34469-ND	2.70/1		126195-3
Replacement Extraction Tip Use with 91067-2	A34470-ND	2.70/1		126195-4
Hand Crimping Tool for Screw-Machined Contacts (20DM)	A9977-ND	703.50/1		601966-1
Pin Positioner Tool Use with 601966-1	A9797-ND	171.68/1		601966-5

SERIES 109

Fig. 1

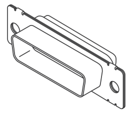

Fig. 2

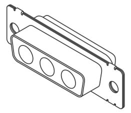

Standard Density Crimp Type, Power/Coax/Signal Combination Connectors

Material and Finish: • Shell: Steel or copper alloy • Plating: Cadmium, tin or gold • Insert: Approved material per MIL-DTL-24308 • Retention Clips: Stainless steel or copper alloy

Contact Arrangements:

3C3

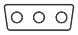

11C1

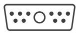

5C5

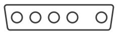

9C4

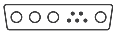

13C3

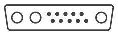

21C1

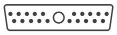

8C8

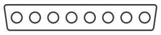

21C4

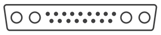

24C7

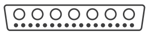

36C4

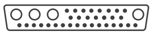

Fig.	Contact Arrangement	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
			Plugs			
1	3C3	A34503-ND	4.17	3.48	2.78	5-448153-4
		A34505-ND	4.80	4.00	3.20	5-448153-1
	11C1	A34507-ND	11.52	9.60	7.68	5-211111-1
	5C5	A34509-ND	6.57	5.48	4.38	5-212491-1
		A34511-ND	5.64	4.70	3.76	5-212491-3
	9C4	A34513-ND	15.96	13.30	10.64	5-212498-1
	13C3	A34515-ND	26.31	21.93	17.54	5-208810-1
	21C1	A34517-ND	18.78	15.65	12.52	5-212522-1
	8C8	A34519-ND	7.05	5.88	4.70	5-446405-1
	21C4	A34521-ND	23.76	19.80	15.84	5-212530-1
	24C7	A34523-ND	26.79	22.33	17.86	5-208743-1
	36C4	A34525-ND	33.48	27.90	22.32	5-208744-1
			Receptacles			
2	3C3	A34504-ND	4.41	3.68	2.94	445705-7
		A34506-ND	5.40	4.50	3.60	5-445705-4
	11C1	A34508-ND	12.00	10.00	8.00	5-211112-1
	5C5	A34510-ND	5.82	4.85	3.88	5-212059-1
		A34512-ND	4.50	3.75	3.00	212059-9
	9C4	A34514-ND	11.55	9.63	7.70	5-212502-1
	13C3	A34516-ND	26.67	22.23	17.78	5-208811-1
	21C1	A34518-ND	18.60	15.50	12.40	5-212526-1
	8C8	A34520-ND	4.86	4.05	3.24	5-445730-1
	21C4	A34522-ND	18.63	15.53	12.42	5-212534-1
	24C7	A34524-ND	30.03	25.03	20.02	5-208552-1
	36C4	A34526-ND	30.03	25.03	20.02	5-208550-1

Description	Digi-Key Part No.	Price Each 1	10	AMP Part No.
	Contacts - Crimp Gold			
Pin, 8 AWG	A34793-ND	9.26	8.03	211159-1
Pin, 10 AWG	A34794-ND	32.25	27.95	211159-2
Pin, 12-14 AWG	A34795-ND	10.13	8.78	212007-1
Pin, 16-18 AWG	A34796-ND	11.14	9.66	212013-1
Socket, 8 AWG	A34797-ND	19.91	17.26	211161-1
Socket, 10 AWG	A34798-ND	37.28	32.31	211161-2
Socket, 12-14 AWG	A34799-ND	17.10	14.82	212008-1
Socket, 16-18 AWG	A34800-ND	16.88	14.63	212014-1
	Coaxial Contacts - Size 8			
Pin RG-174/188/316	A34786-ND	23.48	20.35	5-228618-1
Pin RG-179/187	A34787-ND	29.29	25.39	5-228618-2
Pin RG-142/B9246	A34788-ND	77.85	67.47	5-228618-4
Socket, RG-174/188/316	A34789-ND	22.91	19.86	5-228596-1
Socket, RG-179/187	A34790-ND	31.91	27.66	5-228596-2
Socket, RG-142/400/B9246	A34791-ND	40.01	34.68	5-228596-4
	Tooling			
Hand Tool Frame w/o Positioner	A34779-ND	839.48/1		608651-1
Positioner 8-14 AWG, Use with 608651-1	A34780-ND	160.61/1		608651-2
Hand Tool Frame w/o Positioner	A34781-ND	740.25/1		608668-1
Positioner 16-18 AWG, Use with 608668-1	A34782-ND	211.05/1		608668-2
Extraction Tool	A34792-ND	167.88/1		318813-1
Tool Die RG-174/316/ 188/179/187	A34783-ND	1479.00/1		59993-1
Tool Die Assy. RG-142/ 400/B9246	A34784-ND	1223.12/1		58212-1

AMPLIMITE®

Accessories / Hardware

(Sold In Packages of 2 unless otherwise noted)

Fig. 1

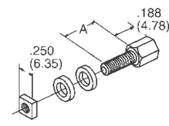

Fig. 2

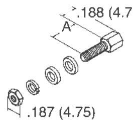

Fig. 3

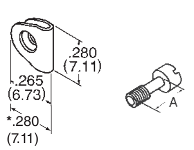

Fig. 4

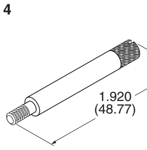

Fig. 5

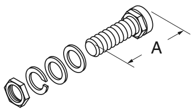

Fig. 6

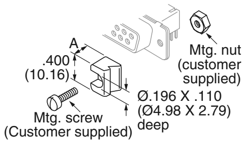

Fig. 7

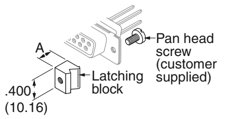

Fig. 8

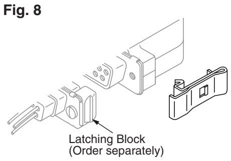

Fig. 9

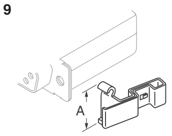

Fig. 10

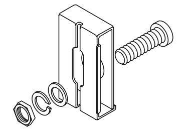

Fig. 11

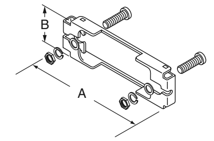

Style 1: Can be used with cable clamps that do not extend beyond the front flange of the connector or on connectors without cable clamps.

Style 2: Can be used with any cable clamp that has the mounting ear configuration.

Style 3: Can be used on connectors without cable clamps or with cable clamps that do not have the mounting ear configuration.

Fig. 12

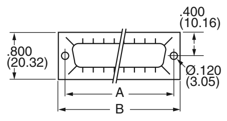

Fig. 13

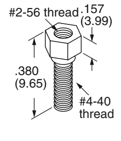

Fig. 14

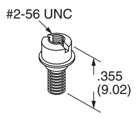

Fig. 15

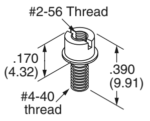

Description	Digi-Key Part No.	Pricing 10	50	AMP Part No.
Flat Washer #4	A35229-ND	.35	1.46	5205820-2
Hex Nut 4-40	A35230-ND	.68	2.82	5205821-2

Fig.	Conn. Used w/ AMP Series	Finish	Thread	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Female Screw Locks - Steel, Zinc Plated								
RoHS Compliant								
1	HD Plastic	Yellow Chromate	4-40	.250 (6.35)	A33684-ND	1.79	1.49	5207952-1
2	HDE	Yellow Chromate	4-40	.250 (6.35)	A33685-ND	2.13	1.78	5745563-1
	HDE	Clear Chromate	4-40	.250 (6.35)	A33686-ND	1.90	1.59	5745563-3
	HDP/HDF	Yellow Chromate	4-40	.312 (7.92)	A33687-ND	1.94	1.62	5205817-1
	HDP/HDF	Clear Chromate	4-40	.312 (7.92)	A32020-ND	1.86	1.55	5205817-3
	HDP/HDF	Yellow Chromate	4-40, MIL-C24308	.312 (7.92)	A33688-ND	.95	.80	5205817-8
	HD/HDF	Yellow Chromate	4-40	.560 (14.22)	A33689-ND	1.89	1.58	5207719-1
	HD/HDF	Clear Chromate	4-40	.560 (14.22)	A32023-ND	1.83	1.53	5207719-3
	HD/HDF	Clear Chromate	2-56 Male (4-40 Female)	.560 (14.22)	A32026-ND	3.12	2.60	5747223-3
Individual Screwlocks - Steel, Zinc Plated (washers and nuts not included)								
1	HD	Clear Chromate	4-40	.250 (6.35)	A23426-ND	1.77	1.48	207952-3
2	HDP/HDF	Clear Chromate	4-40	.312 (7.92)	A23431-ND†	2.31	1.93	748558-4
RoHS Compliant								
1	HD	Clear Chromate	4-40	.250 (6.35)	A33690-ND	1.71	1.43	5207952-3
2	HDP/HDF	Clear Chromate	M2.6 (Metric), Female (4-40 Male)	.312 (7.92)	A33691-ND	1.44	1.20	5749765-3
	HDP/HDF	Yellow Chromate	4-40	.312 (7.92)	A33692-ND	1.09	.91	5748270-2
	HDP/HDF	Clear Chromate	4-40	.312 (7.92)	A33693-ND†	2.16	1.80	5748558-4
	HDP/HDF	Clear Chromate	4-40	.312 (7.92)	A35225-NDΔ	2.85	2.38	5748558-3
	HDP/HDF	Clear Chromate	M3 Female (4-40 Male)	.312 (7.92)	A35223-ND	2.28	1.90	5747404-3
	HDP/HDF	Clear Chromate	4-40	.185 (4.70)	A35224-ND	.62	.53	5747877-3
Male Screw Retainers for Plastic Shell Connectors - Steel, Zinc Plated (material)								
RoHS Compliant								
3	HDE	Yellow Chromate	4-40	.220 (5.59)	A33694-ND	1.08	.99	5745647-1
Male Screw Retainers for Metal Shell Connectors - Steel, Zinc Plated (material)								
RoHS Compliant								
3	HDE/HDP	Yellow Chromate	4-40	.220 (5.59)	A33695-ND	.68	.57	5205980-1
		Clear Chromate	4-40	.220 (5.59)	A32021-ND	.80	.68	5205980-4
		Yellow Chromate	4-40	.200 (5.08)	A33696-ND	1.53	1.28	5745136-1
Male Screw Retainers for Metal and Plastic Shell Connectors - Steel, Zinc Plated (material)								
RoHS Compliant								
3	HDF	Clear Chromate	4-40	.300 (7.62)	A35222-ND*	2.29	1.91	5746881-2
Male Jack Screw - Steel, Zinc Plated								
RoHS Compliant								
4	HDE/HDP	Clear Chromate	4-40	—	A23593-ND†	3.08	2.57	747784-3
Locking Post Assembly - Steel, Zinc Plated (2 complete assemblies)								
5	HDF/HDP	Yellow Chromate	4-40	.560 (14.22)	A23440-ND	3.21	2.68	206514-6
RoHS Compliant								
5	HD/HDE	Yellow Chromate	4-40	.410 (10.41)	A32022-ND	2.84	2.37	5206514-1
	HDF/HDP	Yellow Chromate	4-40	.560 (14.22)	A33697-ND	3.03	2.53	5206514-6

† Bulk packed and with captivated star washer; no additional hardware included
Δ Parts packaged as a unit kit with captivated star washer; no additional hardware included

Fig.	No. of Positions	Description	Thread	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Latching Blocks - Slot Recess & Thru-Hole - Zinc — RoHS Compliant									
6	9-37	Rear-Panel Latching	—	.160 (4.06)	—	A23453-ND	5.02	4.19	747080-2
	9-37	Rear-Panel Latching	—	.190 (4.83)	—	A23451-ND	1.15	.97	745245-2
	9-37	Front-Panel Latching	—	.250 (6.35)	—	A23452-ND	.92	.77	745286-2
Latching Blocks - Threaded Hole - Zinc — RoHS Compliant									
7	9-37	Rear-Panel Latching	4-40	.190 (4.83)	.400 (10.16)	A23449-ND	2.92	2.44	745403-8
	9-37	Rear-Panel Latching	4-40	.220 (5.59)	.400 (10.16)	A23450-ND	7.75	6.46	747717-2
	9-37	Front-Panel Latching	M3	.250 (6.35)	.400 (10.16)	A23447-ND	1.42	1.18	208101-1
	9-37	Front-Panel Latching	4-40	.250 (6.35)	.400 (10.16)	A23448-ND	1.42	1.18	208101-8
	50	Front-Panel Latching	4-40	.250 (6.35)	.530 (13.46)	A35227-ND	68.82	57.35	1-208101-1

Fig.	No. of Positions	Dimension A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Spring Latches - Stainless Steel — RoHS Compliant							
8	—	—	With Mounting Ears	A23445-ND	4.17	3.48	745255-2
9	9-37	.540 (13.72)	Spring Latch	A23446-ND	1.89	1.58	745779-2
9	50	.650 (16.51)	Spring Latch	A35226-ND	9.63	8.03	745779-5
Slide Latch Clips - Steel, Zinc Plated (clip stainless steel, screws/washers/nuts - steel, zinc plated)							
10	—	—	Thread 4-40, Screw Length .415 (10.54mm)	A23441-ND A33703-ND◆	2.55 2.58	2.13 2.15	206942-1 5206942-1

◆ *RoHS Compliant*

Fig.	No. of Positions	Style No.	Thread Size	Dimensions - Inches (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Slide Latch Clips - Stainless Steel (screws/washers/nuts - steel, zinc plated)									
11	25	2	2-56	2.265 (57.53)	.470 (11.94)	A23437-ND	11.70	9.75	745584-1
RoHS Compliant									
11	9	1	4-40	1.397 (35.48)	.490 (12.45)	A33698-ND	3.64	3.03	5745404-1
	15	2	2-56	1.725 (43.82)	.470 (11.94)	A33699-ND	5.31	4.43	5745583-1
	25	2	2-56	2.265 (57.53)	.470 (11.94)	A33700-ND	10.47	8.73	5745584-1
	25	3	4-40	2.265 (57.53)	.470 (11.94)	A33701-ND	4.83	4.03	5745584-3
	37	1	4-40	2.913 (73.99)	.490 (12.45)	A32024-ND	5.88	4.90	5745407-1
	50	3	4-40	2.819 (71.60)	.575 (14.61)	A33702-ND	10.44	8.70	5745578-3

Fig.	No. of Positions	Dimensions - Inches (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
EMI/RFI Gaskets - Brass .006” (0.15mm) Thick, Bright Tin Plated — RoHS Compliant							
12	9	.984 (24.99)	1.220 (30.99)	A32025-ND	1.50	1.25	5747024-3
	15	1.312 (33.32)	1.555 (39.50)	A35052-ND	4.80	4.00	5747025-3
	25	1.852 (47.04)	2.100 (53.34)	A32027-ND	18.66	15.55	745776-4
	37	2.500 (63.50)	2.730 (69.34)	A32028-ND	6.30	5.25	745777-4
13	Screwlock Kits for .050 Series, stainless steel			A23468-ND‡	2.18	1.82	749087-2
14	Screwlock Kits for .050 Series, stainless steel, Thread 4-40			A23469-ND	3.64	3.04	750644-1
14	Screwlock Kits for .050 Series, stainless steel, Thread 2-56			A23470-ND	2.96	2.48	786585-2
15	Screwlock Kits for .050 Series, stainless steel			A23675-ND	4.62	3.85	750831-1
—	Grommet Set (4 per set), 9-15 positions			A23668-ND	.87	.73	747746-1
	Grommet Set (4 per set), 25-50 positions			A23669-ND	1.47	1.23	747973-1

‡ Recommended for right-angle board mount connectors

D-Sub Connectors

Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5	Fig. 6
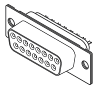	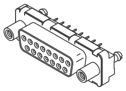	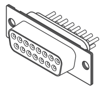	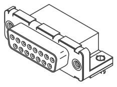	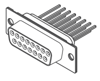	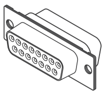

Fig.	No. of Pins	Type	Digi-Key Part No.	Price Each			FCI Part No.
				1	25	100	
			Solder Cup — Stamped Contacts				
1	9	Male	609-1524-ND	1.53	.83	.73	DE09P064TXLF
	9	Female	609-1525-ND	1.56	.85	.74	DE09S064TLF
	15	Male	609-1512-ND	1.94	1.15	.99	DA15P064TXLF
	15	Female	609-1513-ND	1.94	1.15	.99	DA15S064TLF
	25	Male	609-1518-ND	2.02	1.20	1.03	DB25P064TXLF
	25	Female	609-1519-ND	2.02	1.20	1.03	DB25S064TLF
			Solder Cup — Machined Contacts				
1	9	Male	609-2805-ND	3.48	2.15	1.90	DEP09P065TXLF
	9	Female	609-2806-ND	3.97	2.46	2.16	DEP09S065TLF
	15	Male	609-2810-ND	4.83	3.00	2.72	DAP15P065TXLF
	15	Female	609-2811-ND	7.84	4.87	4.41	DAP15S065TLF
	25	Male	609-2814-ND	6.05	3.93	3.59	DBP25P065TXLF
	25	Female	609-2815-ND	12.16	7.89	7.21	DBP25S065TLF
			Vertical PCB — Stamped Contacts (with harpoon, and 4-40 screwlock)				
2	9	Male	609-1479-ND	3.18	1.97	1.73	D09P24A4GV00LF
	9	Female	609-1485-ND	3.18	1.97	1.73	D09S24A4GV00LF
	15	Male	609-1491-ND	3.05	1.87	1.63	D15P24A4GV00LF
	15	Female	609-1497-ND	2.89	1.78	1.55	D15S24A4GV00LF
	25	Male	609-1503-ND	3.60	2.23	1.96	D25P24A4GV00LF
	25	Female	609-1509-ND	3.17	1.96	1.73	D25S24A4GV00LF
			Vertical PCB — Machined Contacts				
3	9	Male	609-2807-ND	3.50	2.16	1.91	DEP09P365TXLF
	9	Female	609-2808-ND	3.35	2.07	1.82	DEP09S365TLF
	15	Male	609-2812-ND	5.56	3.54	3.24	DAP15P365TXLF
	15	Female	609-2813-ND	5.56	3.54	3.24	DAP15S365TLF
	25	Male	609-2822-ND	8.26	5.62	4.96	DBP25P365TXLF
	25	Female	609-2823-ND	8.75	5.96	5.26	DBP25S365TLF
			Right Angle PCB (with insert, harpoon, and metal plate)				
4	9	Male	609-1481-ND§†	2.81	1.73	1.55	D09P33E4GX00LF
	9	Female	609-1487-ND§†	2.77	1.70	1.52	D09S33E4GX00LF
	15	Male	609-1493-ND§†	3.38	2.01	1.75	D15P33E4GX00LF
	15	Female	609-1499-ND§†	3.33	1.98	1.72	D15S33E4GX00LF
	25	Male	609-1505-ND§†	3.56	2.20	1.94	D25P33E4GX00LF
	25	Female	609-1511-ND§†	3.34	2.06	1.82	D25S33E4GX00LF
	9	Male	609-1478-ND‡†	2.71	1.67	1.49	D09P13A4GX00LF
	9	Female	609-1484-ND‡†	2.77	1.70	1.52	D09S13A4GX00LF
	15	Male	609-1490-ND‡†	3.24	1.99	1.73	D15P13A4GX00LF
	15	Female	609-1496-ND‡†	3.63	2.24	1.98	D15S13A4GX00LF
	25	Male	609-1502-ND‡†	3.67	2.27	2.00	D25P13A4GX00LF
	25	Female	609-1508-ND‡†	3.13	1.93	1.71	D25S13A4GX00LF
	9	Male	609-1476-ND‡∆	2.76	1.64	1.47	D09P13A4GL00LF
	9	Female	609-1482-ND‡∆	2.71	1.61	1.45	D09S13A4GL00LF
	15	Male	609-1488-ND‡∆	3.08	1.89	1.65	D15P13A4GL00LF
	15	Female	609-1494-ND‡∆	2.95	1.81	1.57	D15S13A4GL00LF
	25	Male	609-1500-ND‡∆	3.38	2.09	1.84	D25P13A4GL00LF
	25	Female	609-1506-ND‡∆	3.29	2.04	1.79	D25S13A4GL00LF
			Right Angle PCB (with screwlock, harpoon, and metal plate)				
4	9	Male	609-1480-ND§	2.76	1.70	1.52	D09P33E4GV00LF
	9	Female	609-1486-ND§	2.55	1.54	1.34	D09S33E4GV00LF
	15	Male	609-1492-ND§	3.08	1.89	1.65	D15P33E4GV00LF
	15	Female	609-1498-ND§	3.04	1.87	1.62	D15S33E4GV00LF
	25	Male	609-1504-ND§	3.47	2.15	1.89	D25P33E4GV00LF
	25	Female	609-1510-ND§	3.63	2.17	1.91	D25S33E4GV00LF
	9	Male	609-1477-ND‡	2.85	1.75	1.57	D09P13A4GV00LF
	9	Female	609-1483-ND‡	2.72	1.67	1.50	D09S13A4GV00LF
	15	Male	609-1489-ND‡	3.08	1.89	1.65	D15P13A4GV00LF
	15	Female	609-1495-ND‡	3.04	1.87	1.62	D15S13A4GV00LF
	25	Male	609-1501-ND‡	3.47	2.15	1.89	D25P13A4GV00LF
	25	Female	609-1507-ND‡	3.38	2.09	1.84	D25S13A4GV00LF
			Right Angle PCB (with screwlock, harpoon, and metal plate) — Machined Contacts				
4	9	Male	609-2827-ND	9.19	6.26	5.52	DEPV09P565GTXLF
	9	Female	609-2828-ND	8.85	6.02	5.31	DEPV09S565GTLF
	15	Male	609-2830-ND	9.13	6.28	5.71	DAPV15P565GTXLF
	15	Female	609-2831-ND	9.13	6.28	5.71	DAPV15S565GTLF
	25	Male	609-2833-ND	11.31	8.02	7.38	DBPV25P565GTXLF
	25	Female	609-2832-ND	14.94	10.59	9.75	DBPV25S565GTLF
			High Density Right Angle PCB (with harpoon, and metal bracket)				
4	14	Female	609-2800-ND†	2.64	1.62	1.45	ICD14S13E6GX00LF
	15	Female	609-2801-ND†	3.67	2.10	1.82	ICD15S13E6GX00LF
	15	Female	609-2802-ND◊	1.88	1.08	.93	ICD15S13E6GV00LF
	26	Female	609-2803-ND◊	3.06	1.89	1.67	ICD26S13E4GV00LF
	26	Female	609-2804-ND†	3.06	1.89	1.67	ICD26S13E4GX00LF
			Wire Wrap — Machined Contacts				
5	9	Male	609-2818-ND	7.26	4.84	4.33	DEP09P465TXLF
	9	Female	609-2809-ND	3.77	2.34	2.12	DEP09S465TLF
	15	Male	609-2817-ND	6.06	4.04	3.62	DAP15P465TXLF
	15	Female	609-2816-ND	8.13	5.42	4.85	DAP15S465TLF
	25	Male	609-2821-ND	9.28	6.31	5.68	DBP25P465TXLF
	25	Female	609-2820-ND	7.54	5.13	4.62	DBP25S465TLF
			Crimp Shell				
6	9	Male	609-1466-ND	1.32	.72	.62	865609PLTXLF
	9	Female	609-1467-ND	1.37	.74	.64	865609SLTLF
	15	Male	609-1468-ND	1.47	.83	.71	865615PLTXLF
	15	Female	609-1469-ND	1.45	.81	.69	865615SLTLF
	25	Male	609-1470-ND	1.53	.83	.73	865625PLTXLF
	25	Female	609-1471-ND	1.61	.87	.77	865625SLTLF
			Crimp Contacts				
	24-28AWG Gold	Male	609-1472-ND	.25	.11	.09	8656350064LF
	24-28AWG Gold	Female	609-1473-ND	.23	.11	.08	8656351064LF
	20-24AWG Gold	Male	609-1474-ND	.25	.11	.09	8656352064LF
	20-24AWG Gold	Female	609-1475-ND	.23	.11	.08	8656353064LF

§ US Standard Footprint ‡ Europe Standard Footprint † 4-40 Insert ∆ M3 Insert ◊ 4-40 Female Screwlock

(Continued)

D-Sub Hardware

Fig. 1 – **Screw Lock**

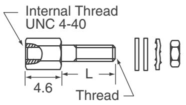

Fig. 2 – **Screw Lock Delta D Series**

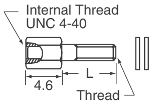

Fig. 3 – **Screw Lock**

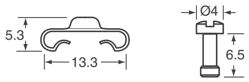

Fig. 4 – **Metal Cap or D-Sub Cover**

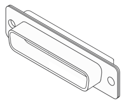

Fig.	Type	No. of Contacts	Dim. L (mm)	Thread	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	Female	—	8.30	M3	609-1422-ND	.89	.46	.39	863001TLF
	Female	—	8.30	M3	609-1446-ND	.89	.46	.39	86552153TLF
	Female	—	6.30	M3	609-1417-ND	.83	.41	.35	863001017TLF
	Female	—	13.0	M3	609-1421-ND	.83	.41	.35	863001061TLF
	Female	—	8.30	UNC 4.40	609-1420-ND	.94	.47	.40	863001060TLF
	Female	—	8.30	M3	609-1443-NDΔ	.52	.26	.21	86551007TLF
	Female	—	8.30	UNC 4.40	609-1444-NDΔ	.52	.26	.21	86551009TLF
	Female	—	4.50	M3	609-1445-NDΔ	.70	.35	.29	86551167TLF
2	Female	—	4.5	M3	609-1418-ND	.68	.33	.28	863001018TLF
	Female	—	4.5	UNC 4.40	609-1419-ND	.68	.33	.28	863001019TLF
3	Male	—	—	UNC 4.40	609-1423-ND	1.16	.65	.54	863005ATLF
4	Male	9	—	—	609-1447-ND	2.20	1.31	1.16	86553113TLF
	Female	9	—	—	609-1450-ND	2.23	1.32	1.17	86553148TLF
	Male	15	—	—	609-1448-ND	2.29	1.36	1.21	86553114TLF
	Female	15	—	—	609-1451-ND	2.28	1.37	1.20	86553149TLF
	Male	25	—	—	609-1449-ND	2.87	1.76	1.53	86553115TLF
	Female	25	—	—	609-1452-ND	2.96	1.82	1.58	86553150TLF

Δ Hardware not included

D-Sub Backshells

Fig. 1

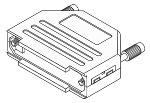

Fig. 2

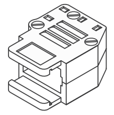

Fig. 3

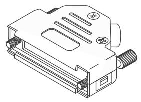

Fig. 4

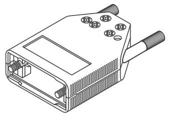

Fig.	No. of Pins	Type	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	9	Black Plastic Hood	609-1424-ND	1.89	1.12	.97	86303637BLF
	15		609-1425-ND	1.98	1.17	1.01	86303638BLF
	25		609-1426-ND	2.07	1.19	1.06	86303639BLF
	37		609-1427-ND	2.39	1.44	1.25	86303640BLF
	50		609-1428-ND	4.18	2.57	2.23	86303641BLF
2	9	Black Plastic Hood	609-1429-ND	2.60	1.55	1.38	863093C09ALF
	15		609-1431-ND	2.63	1.57	1.40	863093C15ALF
	25		609-1433-ND	2.16	1.28	1.14	863093C25ALF
	37		609-1435-ND	2.77	1.70	1.53	863093C37ALF
	50		609-1436-ND	3.26	2.02	1.78	863093C50ALF
	9	Plastic Metalized Hood	609-1430-ND	4.18	2.60	2.36	863093C09MLF
	15		609-1432-ND	4.25	2.74	2.43	863093C15MLF
	25		609-1434-ND	5.13	3.17	2.79	863093C25MLF
3	9	Black Plastic Hood	609-1462-ND	2.90	1.78	1.60	8655PHRA0901LF
	15		609-1463-ND	3.04	1.88	1.66	8655PHRA1501LF
	25		609-1464-ND	3.42	2.11	1.86	8655PHRA2501LF
	37		609-1465-ND	4.04	2.51	2.27	8655PHRA3701LF
	9	Shielded Metal Hood	609-1458-ND	4.91	3.07	2.81	8655MHRA0901LF
	15		609-1459-ND	5.22	3.48	3.12	8655MHRA1501LF
	25		609-1460-ND	5.43	3.62	3.24	8655MHRA2501LF
	37		609-1461-ND	6.42	4.27	3.83	8655MHRA3701LF
4	9	Shielded Metal Hood	609-1453-ND†	6.50	4.50	3.98	8655MH0911LF
	15		609-1454-ND†	7.18	4.88	4.40	8655MH1511LF
	25		609-1455-ND†	7.93	5.40	4.76	8655MH2511LF
	37		609-1456-ND†	8.36	5.93	5.23	8655MH3711LF
	50		609-1457-ND†	13.75	10.01	9.07	8655MH5011LF

† Two Part Hoods

Combo D-Sub Connectors

Power contacts sold separately.

Fig.	Contact Arrangement	Type	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
			Solder Cup				
1	7W2	Male	609-1516-ND	4.69	2.94	2.69	DA7W2PA00LF
	7W2	Female	609-1517-ND	5.25	3.34	3.06	DA7W2SA00LF
			Crimp Shell				
2	3W3	Male	609-1514-ND	1.89	1.09	.94	DA3W3PA00LF
	3W3	Female	609-1515-ND	1.80	1.00	.88	DA3W3SA00LF
	5W5	Male	609-1520-ND	2.34	1.41	1.23	DB5W5PA00LF
	5W5	Female	609-1521-ND	2.34	1.41	1.23	DB5W5SA00LF
	8W8	Male	609-1522-ND	2.59	1.56	1.36	DC8W8PA00LF
	8W8	Female	609-1523-ND	2.59	1.56	1.36	DC8W8SA00LF
			Right Angle PCB				
3	3W3	Male	609-2824-NDΔ	3.57	2.43	2.15	D3W3P36A6GL08LF
	3W3	Male	609-2825-ND◊	7.71	5.25	4.63	D3W3P36A6GV08LF
	3W3	Male	609-2826-ND†	7.86	5.35	4.72	D3W3P36A6GX08LF
	5W5	Male	609-2834-ND◊	13.10	9.50	8.45	D5W5P36A6GV08LF
	5W5	Male	609-2829-ND†	8.03	5.70	5.03	D5W5P36A6GX08LF
	13W3	Female	609-2819-ND†	7.45	5.16	4.57	D13W3S17B5GX3CLF

Δ M3 Insert † 4-40 Insert ◊ 4-40 Female Screwlock

Contact Arrangment

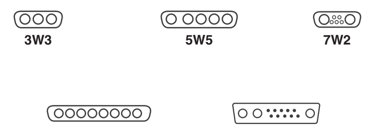

Fig. 1 – Solder Cup

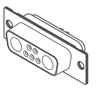

Fig. 2 – Crimp Shell

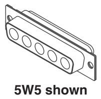

5W5 shown

Fig. 3 – Right Angle PCB

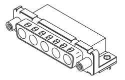

5W5 shown

Power Contacts

Wire Size	Type	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
8	Male	609-1439-ND	3.15	1.95	1.72	8638PPS4005LF
	Female	609-1442-ND	3.69	2.30	2.08	8638PSS4005LF
12	Male	609-1438-ND	2.41	1.45	1.27	8638PPS2005LF
	Female	609-1441-ND	3.75	2.33	2.11	8638PSS2005LF
16	Male	609-1437-ND	3.66	2.26	1.99	8638PPS1005LF
	Female	609-1440-ND	4.31	2.68	2.43	8638PSS1005LF

D-Sub Right Angle Ultra Slim VGA Connector

Materials and Finish:

• Steel, Nickel plated • Insulator, Nylon 6T, Color Pantone Blue #2935U • Contacts: Phosphor Bronze, Gold plated on contact area Tin on tails over Nickel • Board Locks, Brass Tin plated • Rivets, Brass Nickel plated

Specifications:

• Current Rating: 1 Amp max. • Insulation Resistance: 1,000 MΩ min. at 500VDC • DWD: 500VAC RMS for 1 minute • Contact Resistance: 30 mΩ max. • Temperature Rating: -40°C ~ 230°C

Contacts	Type	Digi-Key Part No.	Price Each 1	10	100	EDAC Part No.
15	Female	151-1117-ND	1.83	1.63	1.30	634-015-274-990

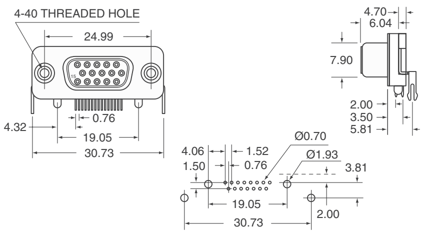

NorComp
A DIVISION OF EDAC (AMERICA) LIMITED

High Density D-Sub Connectors 180 Series

• Compatible with new generation systems from several computer manufacturers • Shells have bright tin finish for EMI/RFI shielding • Male connector shells have grounding indents • Reliable crimp snap-in contacts feature insulation grip for increased holding power • Contacts compatible with industry standard crimp tools. **Materials:** • **Shell:** Steel, with bright tin over nickel • **Shell-RoHS Compliant:** Steel, nickel plated • **Insulator:** Glass-filled thermoplastic, UL rated 94V-0 • **Male Pin:** Brass • **Female Contact:** Phosphor bronze • **Contact Plating:** Gold over nickel (gold flash on entire contact for solder cup and dip solder)

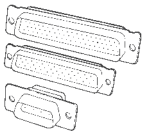

Stamped Contacts For High Density D-Sub Connectors

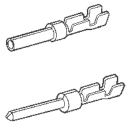

Wire Size: 22-26 AWG
Pin Dia.: .030” (.76mm)

No. of Pins	Shell Size	Dimensions – Inch			
		A	B	C	D
15	DB-9	1.213	0.984	0.496	0.422
26	DB-15	1.543	1.312	0.496	0.422
44	DB-25	2.087	1.852	0.496	0.422
62	DB-37	2.732	2.500	0.496	0.422
78	DB-50	2.638	2.406	0.606	0.550

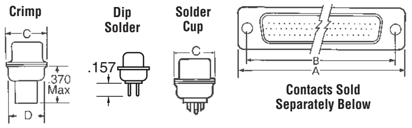

Contacts Sold Separately Below

Note: Contacts sold separately (below) for Crimp Type.

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Crimp - Nickel — RoHS Compliant						
15	Male	815ME-ND	2.18	1.88	1.28	180-015-173L000
	Female	815FE-ND	2.18	1.88	1.28	180-015-273L000
26	Male	826ME-ND	6.40	5.52	3.76	180-026-173L000
	Female	826FE-ND	6.93	5.98	4.07	180-026-273L000
44	Male	844ME-ND	7.77	6.71	4.56	180-044-173L000
	Female	844FE-ND	7.91	6.82	4.64	180-044-273L000
62	Male	862ME-ND	9.93	8.56	5.82	180-062-173L000
	Female	862FE-ND	9.05	7.81	5.31	180-062-273L000
78	Male	878ME-ND	16.97	14.64	9.96	180-078-173L000
	Female	878FE-ND	11.63	10.03	6.82	180-078-273L000
Crimp - with .065” Clinch Nuts, Board Side						
Tin						
26	Male	1826M-ND	7.48	6.45	4.39	180-026-172-010
	Female	1826F-ND	7.74	6.68	4.54	180-026-272-010
44	Male	1844M-ND	8.27	7.13	4.85	180-044-172-010
62	Male	1862M-ND	10.21	8.80	5.99	180-062-172-010
	Female	1862F-ND	10.21	8.80	5.99	180-062-272-010
78	Male	1878M-ND	18.39	15.85	10.78	180-078-172-010
Nickel – .098 — RoHS Compliant						
15	Male	1815ME-ND	3.10	2.67	1.82	180-015-173L010
	Female	1815FE-ND	3.10	2.67	1.82	180-015-273L010
26	Male	1826ME-ND	7.32	6.31	4.30	180-026-173L010
	Female	1826FE-ND	7.85	6.77	4.61	180-026-273L010
44	Male	1844ME-ND	8.70	7.50	5.10	180-044-173L010
	Female	1844FE-ND	8.83	7.62	5.18	180-044-273L010
62	Male	1862ME-ND	10.85	9.36	6.36	180-062-173L010
	Female	1862FE-ND	9.98	8.60	5.85	180-062-273L010
78	Male	1878ME-ND	17.90	15.43	10.50	180-078-173L010
	Female	1878FE-ND	12.55	10.82	7.36	180-078-273L010
Crimp - with .250” Clinch Nuts, Board Side						
Tin						
15	Female	2815F-ND	3.02	2.60	1.77	180-015-272-020
26	Male	2826M-ND	7.48	6.45	4.39	180-026-172-020
	Female	2826F-ND	7.74	6.68	4.54	180-026-272-020
44	Male	2844M-ND	8.27	7.13	4.85	180-044-172-020
62	Male	2862M-ND	10.21	8.80	5.99	180-062-172-020
	Female	2862F-ND	10.21	8.80	5.99	180-062-272-020
78	Male	2878M-ND	18.39	15.85	10.78	180-078-172-020
Nickel — RoHS Compliant						
15	Male	2815ME-ND	3.10	2.67	1.82	180-015-173L020
	Female	2815FE-ND	3.10	2.67	1.82	180-015-273L020
26	Male	2826ME-ND	7.32	6.31	4.30	180-026-173L020
	Female	2826FE-ND	7.85	6.77	4.61	180-026-273L020
62	Male	2862ME-ND	10.85	9.36	6.36	180-062-173L020
	Female	2862FE-ND	9.98	8.60	5.85	180-062-273L020
78	Male	2878ME-ND	17.90	15.43	10.50	180-078-173L020
	Female	2878FE-ND	12.55	10.82	7.36	180-078-273L020
Crimp - with .250” Clinch Nuts, Mating Side						
Tin						
15	Male	3815M-ND	3.02	2.60	1.77	180-015-172-030
	Female	3815F-ND	3.02	2.60	1.77	180-015-272-030
26	Male	3826M-ND	7.48	6.45	4.39	180-026-172-030
	Female	3826F-ND	7.74	6.68	4.54	180-026-272-030
44	Male	3844M-ND	8.27	7.13	4.85	180-044-172-030
62	Male	3862M-ND	10.21	8.80	5.99	180-062-172-030
	Female	3862F-ND	10.21	8.80	5.99	180-062-272-030
78	Male	3878M-ND	18.39	15.85	10.78	180-078-172-030
Nickel — RoHS Compliant						
15	Male	3815ME-ND	3.10	2.67	1.82	180-015-173L030
	Female	3815FE-ND	3.10	2.67	1.82	180-015-273L030
26	Male	3826ME-ND	7.32	6.31	4.30	180-026-173L030
	Female	3826FE-ND	7.85	6.77	4.61	180-026-273L030
44	Male	3844ME-ND	8.70	7.50	5.10	180-044-173L030
	Female	3844FE-ND	8.83	7.62	5.18	180-044-273L030
62	Male	3862ME-ND	10.85	9.36	6.36	180-062-173L030
	Female	3862FE-ND	9.98	8.60	5.85	180-062-273L030
78	Male	3878ME-ND	17.90	15.43	10.50	180-078-173L030
	Female	3878FE-ND	12.55	10.82	7.36	180-078-273L030
Contacts — RoHS Compliant						
—	Pin	85PECT-ND	—	.11	.07	180-001-170L001
	Pin	85PETR-ND	537.50/10,000			180-001-170L001
—	Socket	85SECT-ND	—	.11	.07	180-002-170L001
	Socket	85SETR-ND	537.50/10,000			180-002-170L001
Tools						
Insertion/ Removal Tool		T2020-ND	9.07	7.82	5.32	180-901-170-000
High Density Crimp Tool		T3030-ND	211.47	—	—	180-701-170-000
Solder Cup - Nickel — RoHS Compliant						
15	Male	T815ME-ND	2.42	2.09	1.42	180-015-103L001
	Female	T815FE-ND	2.79	2.41	1.64	180-015-203L001
26	Male	T826ME-ND	7.89	6.80	4.63	180-026-103L001
	Female	T826FE-ND	6.93	5.98	4.07	180-026-203L001
44	Male	T844ME-ND	9.51	8.20	5.58	180-044-103L001
	Female	T844FE-ND	11.01	9.50	6.46	180-044-203L001
62	Male	T862ME-ND	11.83	10.20	6.94	180-062-103L001
	Female	T862FE-ND	13.37	11.53	7.85	180-062-203L001
78	Male	T878ME-ND	9.14	6.86	5.72	180-078-103L001
	Female	T878FE-ND	7.98	5.75	4.79	180-078-203L001
Solder Cup - with .065” Clinch Nuts, Board Side						
Tin						
26	Male	4826M-ND	11.51	9.93	6.75	180-026-102-011
44	Female	4844F-ND	11.69	10.08	6.86	180-044-202-011
78	Female	4878F-ND	18.42	15.88	10.80	180-078-202-011
Nickel – .098 — RoHS Compliant						
15	Male	4815ME-ND	3.34	2.89	1.97	180-015-103L011
	Female	4815FE-ND	3.71	3.20	2.18	180-015-203L011
26	Male	4826ME-ND	8.81	7.60	5.17	180-026-103L011
	Female	4826FE-ND	7.85	6.77	4.61	180-026-203L011
44	Male	4844ME-ND	10.43	9.00	6.12	180-044-103L011
	Female	4844FE-ND	11.94	10.29	7.00	180-044-203L011
62	Male	4862ME-ND	12.75	10.99	7.48	180-062-103L011
	Female	4862FE-ND	14.30	12.33	8.39	180-062-203L011
78	Male	4878ME-ND	17.99	15.51	10.55	180-078-103L011
	Female	4878FE-ND	12.55	10.82	7.36	180-078-203L011
Solder Cup - with .250” Clinch Nuts, Board Side						
Tin						
15	Female	5815F-ND	3.63	3.13	2.13	180-015-202-021
26	Male	5826M-ND	11.51	9.93	6.75	180-026-102-021
62	Male	5862M-ND	12.53	10.80	7.35	180-062-102-021
	Female	5862F-ND	17.63	15.20	10.34	180-062-202-021
78	Female	5878F-ND	18.42	15.88	10.80	180-078-202-021
Nickel — RoHS Compliant						
15	Male	5815ME-ND	3.34	2.89	1.97	180-015-103L021
	Female	5815FE-ND	3.71	3.20	2.18	180-015-203L021
26	Male	5826ME-ND	8.81	7.60	5.17	180-026-103L021
	Female	5826FE-ND	7.85	6.77	4.61	180-026-203L021
44	Male	5844ME-ND	10.43	9.00	6.12	180-044-103L021
	Female	5844FE-ND	11.94	10.29	7.00	180-044-203L021
62	Male	5862ME-ND	12.75	10.99	7.48	180-062-103L021
	Female	5862FE-ND	14.30	12.33	8.39	180-062-203L021
78	Male	5878ME-ND	17.99	15.51	10.55	180-078-103L021
	Female	5878FE-ND	12.55	10.82	7.36	180-078-203L021
Solder Cup - with .250” Clinch Nuts, Mating Side						
Tin						
26	Male	6826M-ND	11.51	9.93	6.75	180-026-102-031
44	Female	6844F-ND	11.69	10.08	6.86	180-044-202-031
62	Male	6862M-ND	12.53	10.80	7.35	180-062-102-031
	Female	6862F-ND	17.63	15.20	10.34	180-062-202-031
78	Male	6878M-ND	17.63	15.20	10.34	180-078-102-031
	Female	6878F-ND	18.42	15.88	10.80	180-078-202-031
Nickel — RoHS Compliant						
15	Male	6815ME-ND	3.34	2.89	1.97	180-015-103L031
	Female	6815FE-ND	3.71	3.20	2.18	180-015-203L031
26	Male	6826ME-ND	8.81	7.60	5.17	180-026-103L031
	Female	6826FE-ND	7.85	6.77	4.61	180-026-203L031
44	Male	6844ME-ND	10.43	9.00	6.12	180-044-103L031
	Female	6844FE-ND	11.94	10.29	7.00	180-044-203L031
62	Male	6862ME-ND	12.75	10.99	7.48	180-062-103L031
	Female	6862FE-ND	14.30	12.33	8.39	180-062-203L031
78	Male	6878ME-ND	17.99	15.51	10.55	180-078-103L031
	Female	6878FE-ND	12.55	10.82	7.36	180-078-203L031
Dip Solder - Nickel — RoHS Compliant						
15	Male	180-15ME-ND	2.50	2.16	1.47	180-015-113R001
	Female	180-15FE-ND	2.10	1.81	1.23	180-015-213R001
26	Male	180-26ME-ND	3.85	3.33	2.26	180-026-113R001
	Female	180-26FE-ND	4.36	3.76	2.56	180-026-213R001
44	Male	180-44ME-ND	6.86	5.92	4.03	180-044-113R001
	Female	180-44FE-ND	6.82	5.89	4.01	180-044-213R001
62	Male	180-62ME-ND	9.33	8.05	5.48	180-062-113R001
	Female	180-62FE-ND	9.43	8.14	5.54	180-062-213R001
78	Male	180-78ME-ND	13.69	11.81	8.03	180-078-113R001
	Female	180-78FE-ND	13.36	11.52	7.84	180-078-213R001
Dip Solder - with .065” Clinch Nuts, Board Side						
Tin						
26	Male	7826M-ND	4.90	4.23	2.88	180-026-112-011
44	Male	7844M-ND	8.06	6.95	4.73	180-044-112-011
62	Male	7862M-ND	10.64	9.18	6.24	180-062-112-011
	Female	7862F-ND	10.79	9.30	6.33	180-062-212-011
78	Female	7878F-ND	14.88	12.83	8.73	180-078-212-011
Nickel – .098 — RoHS Compliant						
15	Male	7815ME-ND	3.79	3.27	2.23	180-015-113R011
	Female	7815FE-ND	3.35	2.89	1.97	180-015-213R011
26	Male	7826ME-ND	5.31	4.58	3.12	180-026-113R011
	Female	7826FE-ND	5.88	5.08	3.45	180-026-213R011
44	Male	7844ME-ND	8.62	7.44	5.06	180-044-113R011
	Female	7844FE-ND	8.62	7.44	5.06	180-044-213R011
62	Male	7862ME-ND	11.39	9.83	6.68	180-062-113R011
	Female	7862FE-ND	11.53	9.94	6.76	180-062-213R011
78	Male	7878ME-ND	16.23	14.00	9.52	180-078-113R011
	Female	7878FE-ND	15.89	13.70	9.32	180-062-213R011
Dip Solder - with .250” Clinch Nuts, Board Side						
Tin						
62	Male	8862M-ND	10.64	9.18	6.24	180-062-112-021
78	Male	8878M-ND	15.23	13.13	8.93	180-078-112-021
Nickel — RoHS Compliant						
15	Male	8815ME-ND	3.79	3.27	2.23	180-015-113R021
	Female	8815FE-ND	3.35	2.89	1.97	180-015-213R021
26	Male	8826ME-ND	5.31	4.58	3.12	180-026-113R021
	Female	8826FE-ND	5.88	5.08	3.45	180-026-213R021
44	Male	8844ME-ND	8.62	7.44	5.06	180-044-113R021
	Female	8844FE-ND	8.62	7.44	5.06	180-044-213R021
62	Male	8862ME-ND	11.39	9.83	6.68	180-062-113R021
	Female	8862FE-ND	11.53	9.94	6.76	180-062-213R021
78	Male	8878ME-ND	16.23	14.00	9.52	180-078-113R021
	Female	8878FE-ND	15.89	13.70	9.32	180-078-213R021
Dip Solder - with .250” Clinch Nuts, Mating Side						
Tin						
44	Male	9844M-ND	8.06	6.95	4.73	180-044-112-031
	Female	9844F-ND	8.03	6.93	4.71	180-044-212-031
62	Male	9862M-ND	10.64	9.18	6.24	180-062-112-031
	Female	9862F-ND	10.79	9.30	6.33	180-062-212-031
78	Male	9878M-ND	15.23	13.13	8.93	180-078-112-031
	Female	9878F-ND	14.88	12.83	8.73	180-078-212-031
Nickel — RoHS Compliant						
15	Male	9815ME-ND	3.79	3.27	2.23	180-015-113R031
	Female	9815FE-ND	3.35	2.89	1.97	180-015-213R031
26	Male	9826ME-ND	5.31	4.58	3.12	180-026-113R031
	Female	9826FE-ND	5.88	5.08	3.45	180-026-213R031
44	Male	9844ME-ND	8.62	7.44	5.06	180-044-113R031
	Female	9844FE-ND	8.62	7.44	5.06	180-044-213R031

(Continued)

NORCOMP
A DIVISION OF EDAC (AMERICA) LIMITED

High Density D-Sub Connectors 180 Series *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
62	Male	9862ME-ND	11.39	9.83	6.68	180-062-113R031
	Female	9862FE-ND	11.53	9.94	6.76	180-062-213R031
78	Male	9878ME-ND	16.23	14.00	9.52	180-078-113R031
	Female	9878FE-ND	15.89	13.70	9.32	180-078-213R031
NEW! Crimp - Tin — RoHS Compliant NEW!						
15	Male	815MER-ND	2.44	1.65	1.28	180-015-172L000
	Female	815FER-ND	2.44	1.65	1.28	180-015-272L000
26	Male	826MER-ND	5.74	4.20	3.42	180-026-172L000
	Female	826FER-ND	6.21	4.55	3.71	180-026-272L000
44	Male	844MER-ND	6.70	4.96	4.11	180-044-172L000
	Female	844FER-ND	6.82	5.05	4.18	180-044-272L000
62	Male	862MER-ND	8.22	6.17	5.14	180-062-172L000
	Female	862FER-ND	7.81	5.62	4.69	180-062-272L000
78	Male	878MER-ND	13.17	10.13	8.49	180-078-172L000
	Female	878FER-ND	9.62	7.02	6.02	180-078-272L000
NEW! Crimp - Tin with .098" Clinch Nuts, Board Side — RoHS Compliant NEW!						
15	Male	1815MER-ND	3.20	2.14	1.75	180-015-172L010
	Female	1815FER-ND	3.20	2.14	1.75	180-015-272L010
26	Male	1826MER-ND	6.31	4.67	3.87	180-026-172L010
	Female	1826FER-ND	6.77	5.01	4.15	180-026-272L010
44	Male	1844MER-ND	7.50	5.55	4.59	180-044-172L010
	Female	1844FER-ND	7.61	5.48	4.57	180-044-272L010
62	Male	1862MER-ND	8.98	6.74	5.62	180-062-172L010
	Female	1862FER-ND	8.26	6.20	5.16	180-062-272L010
78	Male	1878MER-ND	13.58	10.68	8.95	180-078-172L010
	Female	1878FER-ND	9.95	7.58	6.50	180-078-272L010
NEW! Crimp - Tin with .250" Clinch Nuts, Board Side — RoHS Compliant NEW!						
15	Male	2815MER-ND	3.20	2.14	1.75	180-015-172L020
	Female	2815FER-ND	3.20	2.14	1.75	180-015-272L020
26	Male	2826MER-ND	6.31	4.67	3.87	180-026-172L020
	Female	2826FER-ND	6.77	5.01	4.15	180-026-272L020
44	Male	2844MER-ND	7.50	5.55	4.59	180-044-172L020
	Female	2844FER-ND	7.61	5.48	4.57	180-044-272L020
62	Male	2862MER-ND	8.98	6.74	5.62	180-062-172L020
	Female	2862FER-ND	8.26	6.20	5.16	180-062-272L020
78	Male	2878MER-ND	13.58	10.68	8.95	180-078-172L020
	Female	2878FER-ND	9.95	7.58	6.50	180-078-272L020
NEW! Crimp- Tin with .250" Clinch Nuts, Mating Side — RoHS Compliant NEW!						
15	Male	3815MER-ND	3.20	2.14	1.75	180-015-172L030
	Female	3815FER-ND	3.20	2.14	1.75	180-015-272L030
26	Male	3826MER-ND	6.31	4.67	3.87	180-026-172L030
	Female	3826FER-ND	6.77	5.01	4.15	180-026-272L030
44	Male	3844MER-ND	7.50	5.55	4.59	180-044-172L030
	Female	3844FER-ND	7.61	5.48	4.57	180-044-272L030
62	Male	3862MER-ND	8.98	6.74	5.62	180-062-172L030
	Female	3862FER-ND	8.26	6.20	5.16	180-062-272L030
78	Male	3878MER-ND	13.58	10.68	8.95	180-078-172L030
	Female	3878FER-ND	9.95	7.58	6.50	180-078-272L030
NEW! Solder Cup - Tin — RoHS Compliant NEW!						
15	Male	T815MER-ND	2.67	1.76	1.42	180-015-102L001
	Female	T815FER-ND	3.01	1.95	1.53	180-015-202L001
26	Male	T826MER-ND	6.80	5.03	4.17	180-026-102L001
	Female	T826FER-ND	6.21	4.55	3.71	180-026-202L001
44	Male	T844MER-ND	7.87	5.91	4.92	180-044-102L001
	Female	T844FER-ND	9.12	6.84	5.70	180-044-202L001
62	Male	T862MER-ND	9.51	7.14	5.95	180-062-102L001
	Female	T862FER-ND	10.61	8.08	6.92	180-062-202L001
78	Male	T878MER-ND	9.14	6.86	5.72	180-078-102L001
	Female	T878FER-ND	7.98	5.75	4.79	180-078-202L001
NEW! Solder Cup - Tin with .098" Clinch Nuts, Board Side — RoHS Compliant NEW!						
15	Male	4815MER-ND	3.46	2.31	1.88	180-015-102L011
	Female	4815FER-ND	3.71	2.56	2.09	180-015-202L011
26	Male	4826MER-ND	7.59	5.47	4.56	180-026-102L011
	Female	4826FER-ND	6.77	5.01	4.15	180-026-202L011
44	Male	4844MER-ND	8.63	6.48	5.40	180-044-102L011
	Female	4844FER-ND	9.88	7.21	6.18	180-044-202L011
62	Male	4862MER-ND	9.86	7.50	6.43	180-062-102L011
	Female	4862FER-ND	11.34	8.63	7.40	180-062-202L011
78	Male	4878MER-ND	13.65	10.74	9.00	180-078-102L011
	Female	4878FER-ND	9.95	7.58	6.50	180-078-202L011
NEW! Solder Cup - Tin with .250" Clinch Nuts, Board Side — RoHS Compliant NEW!						
15	Male	5815MER-ND	3.46	2.31	1.88	180-015-102L021
	Female	5815FER-ND	3.71	2.56	2.09	180-015-202L021
26	Male	5826MER-ND	7.59	5.47	4.56	180-026-102L021
	Female	5826FER-ND	6.77	5.01	4.15	180-026-202L021
44	Male	5844MER-ND	8.63	6.48	5.40	180-044-102L021
	Female	5844FER-ND	9.88	7.21	6.18	180-044-202L021
62	Male	5862MER-ND	9.86	7.50	6.43	180-062-102L021
	Female	5862FER-ND	11.34	8.63	7.40	180-062-202L021
78	Male	5878MER-ND	13.65	10.74	9.00	180-078-102L021
	Female	5878FER-ND	9.95	7.58	6.50	180-078-202L021
NEW! Solder Cup - Tin with .250" Clinch Nuts, Mating Side — RoHS Compliant NEW!						
15	Male	6815MER-ND	3.46	2.31	1.88	180-015-102L031
	Female	6815FER-ND	3.71	2.56	2.09	180-015-202L031
26	Male	6826MER-ND	7.59	5.47	4.56	180-026-102L031
	Female	6826FER-ND	6.77	5.01	4.15	180-026-202L031
44	Male	6844MER-ND	8.63	6.48	5.40	180-044-102L031
	Female	6844FER-ND	9.88	7.21	6.18	180-044-202L031
62	Male	6862MER-ND	9.86	7.50	6.43	180-062-102L031
	Female	6862FER-ND	11.34	8.63	7.40	180-062-202L031
78	Male	6878MER-ND	13.65	10.74	9.00	180-078-102L031
	Female	6878FER-ND	9.95	7.58	6.50	180-078-202L031

NEW! Machined High Density D-Sub Connectors 180 Series

Features:

- Screw machined contacts offer high reliability.
- Metal Shell provides EMI/RFI shielding.
- Plug shells have indents to provide grounding and additional retention.
- Connectors will fit in standard D-sub backshells.
- Contacts will accept (28 ~ 24) gauge wire.

Materials:

- Shell: Steel, Nickel plated
- Insulator: Glass-filled, PBT Thermoplastic. U.L. rated 94V-O
- Machined contacts: Brass, Gold Flash Plated

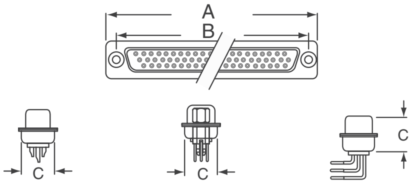

No. of Pins	Dimensions – Inch A	B	C
15	0.643	0.984	1.213
26	0.971	1.312	1.541
44	1.511	1.852	2.088
62	2.159	2.500	2.729

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Dip Solder - Nickel with .098" Clinch Nuts, Board Side						
15	M	180-M1511DMN-ND	4.87	3.40	2.79	180-M15-113R011
	F	180-M1511DFN-ND	5.77	4.22	3.45	180-M15-213R011
26	M	180-M2611DMN-ND	6.55	4.85	4.01	180-M26-113R011
	F	180-M2611DFN-ND	8.02	6.02	5.01	180-M26-213R011
44	M	180-M4411DMN-ND	8.98	6.74	5.61	180-M44-113R011
	F	180-M4411DFN-ND	11.66	10.11	7.52	180-M44-213R011
62	M	180-M6211DMN-ND	11.48	9.95	7.40	180-M62-113R011
	F	180-M6211DFN-ND	15.09	12.70	9.95	180-M62-213R011
Dip Solder - Nickel with .120" Mounting Hole						
15	M	180-M1501DMN-ND	4.18	2.88	2.35	180-M15-113R001
	F	180-M1501DFN-ND	5.18	3.75	3.08	180-M15-213R001
26	M	180-M2601DMN-ND	6.03	4.41	3.60	180-M26-113R001
	F	180-M2601DFN-ND	7.60	5.48	4.56	180-M26-213R001
44	M	180-M4401DMN-ND	8.26	6.20	5.16	180-M44-113R001
	F	180-M4401DFN-ND	13.66	9.52	7.32	180-M44-213R001
62	M	180-M6201DMN-ND	13.92	9.60	7.20	180-M62-113R001
	F	180-M6201DFN-ND	14.43	12.14	9.52	180-M62-213R001
Dip Solder - Nickel with .250" Clinch Nuts, Board Side						
15	M	180-M1521DMN-ND	4.87	3.40	2.79	180-M15-113R021
	F	180-M1521DFN-ND	5.77	4.22	3.45	180-M15-213R021
26	M	180-M2621DMN-ND	6.55	4.85	4.01	180-M26-113R021
	F	180-M2621DFN-ND	8.02	6.02	5.01	180-M26-213R021
44	M	180-M4421DMN-ND	8.98	6.74	5.61	180-M44-113R021
	F	180-M4421DFN-ND	11.66	10.11	7.52	180-M44-213R021
62	M	180-M6221DMN-ND	11.48	9.95	7.40	180-M62-113R021
	F	180-M6221DFN-ND	15.09	12.70	9.95	180-M62-213R021
Dip Solder - Nickel with .250" Clinch Nuts, Mating Side						
15	M	180-M1531DMN-ND	4.87	3.40	2.79	180-M15-113R031
	F	180-M1531DFN-ND	5.77	4.22	3.45	180-M15-213R031
26	M	180-M2631DMN-ND	6.55	4.85	4.01	180-M26-113R031
	F	180-M2631DFN-ND	8.02	6.02	5.01	180-M26-213R031
44	M	180-M4431DMN-ND	8.98	6.74	5.61	180-M44-113R031
	F	180-M4431DFN-ND	11.66	10.11	7.52	180-M44-213R031
62	M	180-M6231DMN-ND	11.48	9.95	7.40	180-M62-113R031
	F	180-M6231DFN-ND	15.09	12.70	9.95	180-M62-213R031
Dip Solder - Nickel with Board Lock						
15	M	180-M1591DMN-ND	5.24	3.79	3.11	180-M15-113R911
	F	180-M1591DFN-ND	6.29	4.60	3.76	180-M15-213R911
26	M	180-M2691DMN-ND	7.30	5.41	4.47	180-M26-113R911
	F	180-M2691DFN-ND	8.50	6.38	5.31	180-M26-213R911
44	M	180-M4491DMN-ND	9.70	7.07	6.06	180-M44-113R911
	F	180-M4491DFN-ND	12.11	10.23	7.81	180-M44-213R911
62	M	180-M6291DMN-ND	11.93	10.07	7.69	180-M62-113R911
	F	180-M4491DFN-ND	12.11	10.23	7.81	180-M44-213R911
R/A PCB .350" footprint Nickel with Board Lock Bracket						
15	M	181-M1541RMN-ND	7.20	5.33	4.41	181-M15-113R141
	F	181-M1541RFN-ND	7.40	5.48	4.53	181-M15-213R141
26	M	181-M2641RMN-ND	13.69	9.44	7.08	181-M26-113R141
	F	181-M2641RFN-ND	13.66	9.52	7.32	181-M26-213R141
44	M	181-M4441RMN-ND	15.31	12.88	10.10	181-M44-113R141
	F	181-M4441RFN-ND	16.02	12.38	10.56	181-M44-213R141
62	M	181-M6241RMN-ND	20.50	16.11	13.91	181-M62-113R141
	F	181-M6241RFN-ND	20.32	16.57	14.23	181-M62-213R141
Solder Cup - Nickel with .098" Clinch Nuts, Board Side						
15	M	180-M1511MN-ND	4.26	2.97	2.44	180-M15-103L011
	F	180-M1511FN-ND	5.93	4.34	3.54	180-M15-203L011
26	M	180-M2611MN-ND	6.50	4.81	3.98	180-M26-103L011
	F	180-M2611FN-ND	9.50	7.13	5.94	180-M26-203L011
44	M	180-M4411MN-ND	9.60	7.00	6.00	180-M44-103L011
	F	180-M4411FN-ND	13.82	11.94	9.11	180-M44-203L011
62	M	180-M6211MN-ND	12.24	10.34	7.89	180-M62-103L011
	F	180-M6211FN-ND	18.27	14.79	12.40	180-M62-203L011
Solder Cup - Nickel with .120" Mounting Hole						
15	M	180-M1501MN-ND	3.54	2.44	1.99	180-M15-103L001
	F	180-M1501FN-ND	5.35	3.87	3.17	180-M15-203L001
26	M	180-M2601MN-ND	5.98	4.37	3.57	180-M26-103L001
	F	180-M2601FN-ND	8.78	6.59	5.49	180-M26-203L001
44	M	180-M4401MN-ND	8.88	6.66	5.55	180-M44-103L001
	F	180-M4401FN-ND	13.46	11.37	8.68	180-M44-203L001
62	M	180-M6201MN-ND	11.57	10.03	7.46	180-M62-103L001
	F	180-M6201FN-ND	17.64	14.28	11.97	180-M62-203L001
Solder Cup - Nickel with .250" Clinch Nuts, Board Side						
15	M	180-M1521MN-ND	4.26	2.97	2.44	180-M15-103L021
	F	180-M1521FN-ND	5.93	4.34	3.54	180-M15-203L021
26	M	180-M2621MN-ND	6.50	4.81	3.98	180-M26-103L021
	F	180-M2621FN-ND	9.50	7.13	5.94	180-M26-203L021
44	M	180-M4421MN-ND	9.60	7.00	6.00	180-M44-103L021
	F	180-M4421FN-ND	13.82	11.94	9.11	180-M44-203L021
62	M	180-M6221MN-ND	12.24	10.34	7.89	180-M62-103L021
	F	180-M6221FN-ND	18.27	14.79	12.40	180-M62-203L021
Solder Cup - Nickel with .250" Clinch Nuts, Mating Side						
15	M	180-M1531MN-ND	4.26	2.97	2.44	180-M15-103L031
	F	180-M1531FN-ND	5.93	4.34	3.54	180-M15-203L031
26	M	180-M2631MN-ND	6.50	4.81	3.98	180-M26-103L031
	F	180-M2631FN-ND	9.50	7.13	5.94	180-M26-203L031
44	M	180-M4431MN-ND	9.60	7.00	6.00	180-M44-103L031
	F	180-M4431FN-ND	13.82	11.94	9.11	180-M44-203L031
62	M	180-M6231MN-ND	12.24	10.34	7.89	180-M62-103L031
	F	180-M6231FN-ND	18.27	14.79	12.40	180-M62-203L031

M = Male F = Female

NorComp
A DIVISION OF EDAC (AMERICA) LIMITED

High Density 90° PC Mount D-Sub Connector

RoHS COMPLIANT

181 Series (.350" Footprint)

SPECIFICATIONS: • **Contact Rating:** 5 Amps • **Dielectric Strength:** 1000V AC RMS • **Insulation Resistance:** 1000MΩ • **Contact Material:** Brass • **Contact Finish:** Gold flash • **Operating Temperature:** -55°C ~ 150°C • **Shell Material:** Steel, Nickel plated • **Insulations Material:** Glass-Filled Polyester (UL 94V-0) • **Gender:** Receptacle (female)

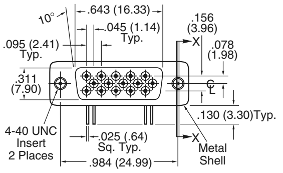

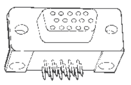

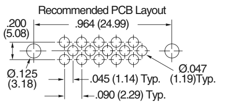

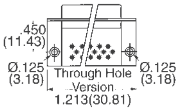

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
With 4-40 Inserts and Inside Ground Straps						
15	Male	181-15RME-ND	3.07	2.09	1.64	181-015-113R171
	Female	815RFE-ND	3.47	3.00	2.04	181-015-213R171
26	Male	181-26RME-ND	5.49	4.01	3.28	181-026-113R171
	Female	826RFE-ND	9.61	8.29	5.64	181-026-213R171
62	Male	181-62RME-ND	10.07	7.67	6.57	181-062-113R171
	Female	862RFE-ND	14.50	12.50	8.50	181-062-213R171
44	Male	181-44RME-ND	7.90	5.69	4.74	181-044-113R171
	Female	844RFE-ND	10.38	8.95	6.09	181-044-213R171
With 4-40 Inserts and Board Locks						
15	Male	181-115RME-ND	3.30	2.20	1.80	181-015-113R531
	Female	181-115RFE-ND	3.31	2.21	1.80	181-015-213R531
26	Male	181-126RME-ND	6.06	4.44	3.62	181-026-113R531
	Female	181-126RFE-ND	4.93	3.50	2.88	181-026-213R531
44	Male	181-144RME-ND	8.11	6.09	5.07	181-044-113R531
	Female	181-144RFE-ND	5.51	4.03	3.29	181-044-213R531
62	Male	181-162RME-ND	10.60	8.07	6.92	181-062-113R531
	Female	181-162RFE-ND	6.80	5.04	4.17	181-062-213R531
With 4-40 Screw Locks and Board Locks						
15	Male	181-215RME-ND	4.82	3.36	2.76	181-015-113R561
	Female	181-215RFE-ND	3.06	2.04	1.67	181-015-213R561
26	Male	181-226RME-ND	7.23	5.35	4.43	181-026-113R561
	Female	181-226RFE-ND	5.69	4.17	3.40	181-026-213R561
44	Male	181-244RME-ND	9.38	7.04	5.87	181-044-113R561
	Female	181-244RFE-ND	6.80	5.04	4.17	181-044-213R561
62	Male	181-262RME-ND	11.59	8.91	7.47	181-062-113R561
	Female	181-262RFE-ND	7.90	5.93	4.94	181-062-213R561

Right Angle D-Sub Connectors

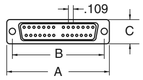

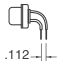

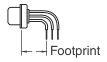

Conn. Size	Dimensions (Inch) A	B	C
9	1.213	.984	0.494
15	1.541	1.312	0.494
25	2.088	1.852	0.494
37	2.729	2.500	0.494
50	2.635	2.406	0.605

Materials: • **Shell:** Steel, zinc plated with yellow chromate or tin plated • **Shell-RoHS Compliant:** Steel, nickel plated • **Insulator:** Glass-filled thermoplastic, UL rated 94V-0 • **Machined Contacts: Male:** Brass; **Female:** Phosphor bronze • **Plating:** Gold flash on entire contact

173 Series (.283" Footprint)

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Short Bracket with 4-40 Screw Lock						
Yellow Chromate						
37	Male	173-37M-ND	13.28	11.45	7.79	173-037-111-141
Tin						
37	Male	173-137M-ND	12.21	10.53	7.16	173-037-112-141
	Female	173-137F-ND	17.28	14.90	10.14	173-037-212-141
Tin — RoHS Compliant						
9	Male	173-109MA-ND	5.48	4.73	3.22	173-009-112R141
	Female	173-109FA-ND	7.44	6.42	4.37	173-009-212R141
15	Male	173-115MA-ND	10.89	9.39	6.39	173-015-112R141
	Female	173-115FA-ND	10.18	8.78	5.97	173-015-212R141
25	Male	173-125MA-ND	10.27	8.86	6.03	173-025-112R141
	Female	173-125FA-ND	14.81	12.77	8.69	173-025-212R141
37	Male	173-137MA-ND	14.24	12.28	8.35	173-037-112R141
	Female	173-137FA-ND	20.15	17.38	11.82	173-037-212R141

173E Series (.283" Footprint)

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Yellow Chromate						
15	Female	1173-15FE-ND	6.99	6.03	4.10	173-E15-211-001
25	Male	1173-25ME-ND	7.60	6.55	4.46	173-E25-111-001
37	Male	1173-37ME-ND	10.47	9.03	6.14	173-E37-111-001
50	Male	1173-50ME-ND	21.23	18.30	12.45	173-E50-111-001
	Female	1173-50FE-ND	23.14	19.95	13.57	173-E50-211-001
Yellow Chromate — RoHS Compliant						
9	Male	1173-09MEA-ND	4.04	3.49	2.37	173-E09-111R001
	Female	1173-09FEA-ND	5.12	3.63	2.98	173-E09-211R001
15	Male	1173-15MEA-ND	5.05	3.58	2.94	173-E15-111R001
	Female	1173-15FEA-ND	7.67	6.62	4.50	173-E15-211R001
25	Male	1173-25MEA-ND	8.34	7.20	4.90	173-E25-111R001
	Female	1173-25FEA-ND	10.10	7.69	6.59	173-E25-211R001
37	Male	1173-37MEA-ND	11.50	9.92	6.75	173-E37-111R001
	Female	1173-37FEA-ND	17.08	14.73	10.02	173-E37-211R001
50	Male	1173-50MEA-ND	23.69	20.42	13.89	173-E50-111R001
	Female	1173-50FEA-ND	25.09	21.63	14.71	173-E50-211R001
Tin						
9	Male	1173-109ME-ND	3.16	2.73	1.86	173-E09-112-001
15	Female	1173-115FE-ND	6.35	5.48	3.73	173-E15-212-001
25	Male	1173-125ME-ND	6.90	5.95	4.05	173-E25-112-001
37	Male	1173-137ME-ND	9.51	8.20	5.58	173-E37-112-001
	Female	1173-137FE-ND	14.12	12.18	8.28	173-E37-212-001
50	Female	1173-150FE-ND	23.14	19.95	13.57	173-E50-212-001
Nickel — RoHS Compliant						
9	Male	1173-109MEA-ND	3.81	2.63	2.15	173-E09-113R001
	Female	1173-109FEA-ND	4.83	3.43	2.81	173-E09-213R001
15	Male	1173-115MEA-ND	4.85	3.38	2.78	173-E15-113R001
	Female	1173-215FEA-ND	6.45	4.78	3.95	173-E15-213R001
25	Male	1173-125MEA-ND	7.62	5.49	4.58	173-E25-113R001
	Female	1173-125FEA-ND	9.94	7.25	6.21	173-E25-213R001
37	Male	1173-137MEA-ND	9.52	7.14	5.95	173-E37-113R001
	Female	1173-137FEA-ND	13.25	10.37	8.55	173-E37-213R001
50	Male	1173-150MEA-ND	16.49	13.35	11.19	173-E50-113R001
	Female	1173-150FEA-ND	18.17	14.71	12.33	173-E50-213R001
Short Bracket with 4-40 Screw Lock						
Yellow Chromate						
9	Male	173-09ME-ND	5.08	4.38	2.98	173-E09-111-141
15	Male	173-15ME-ND	6.70	5.78	3.93	173-E15-111-141
	Female	173-15FE-ND	8.58	7.40	5.04	173-E15-211-141
25	Male	173-25ME-ND	9.19	7.93	5.39	173-E25-111-141
37	Male	173-37ME-ND	12.06	10.40	7.08	173-E37-111-141
Yellow Chromate — RoHS Compliant						
9	Male	173-09MEA-ND	5.92	5.11	3.47	173-E09-111R141
	Female	173-09FEA-ND	7.27	6.27	4.27	173-E09-211R141
15	Male	173-15MEA-ND	7.20	6.21	4.23	173-E15-111R141
	Female	173-15FEA-ND	10.01	8.63	5.87	173-E15-211R141
25	Male	173-25MEA-ND	10.72	9.24	6.29	173-E25-111R141
	Female	173-25FEA-ND	14.61	12.60	8.57	173-E25-211R141
37	Male	173-37MEA-ND	14.07	12.13	8.25	173-E37-111R141
	Female	173-37FEA-ND	19.98	17.23	11.72	173-E37-211R141
50	Male	173-50MEA-ND	26.98	23.27	15.82	173-E50-111R141
	Female	173-50FEA-ND	28.47	24.55	16.70	173-E50-211R141
Tin						
9	Male	173-109ME-ND	4.76	4.10	2.79	173-E09-112-141
15	Female	173-115FE-ND	7.95	6.85	4.66	173-E15-212-141
25	Male	173-125ME-ND	8.50	7.33	4.99	173-E25-112-141
	Female	173-125FE-ND	11.54	9.95	6.77	173-E25-212-141
37	Male	173-137ME-ND	11.11	9.58	6.52	173-E37-112-141
	Female	173-137FE-ND	15.72	13.55	9.22	173-E37-212-141
Nickel — RoHS Compliant						
9	Male	173-109MEA-ND	5.54	4.78	3.26	173-E09-113R141
	Female	173-109FEA-ND	6.76	5.83	3.97	173-E09-213R141
15	Male	173-115MEA-ND	7.27	6.27	4.27	173-E15-113R141
	Female	173-115FEA-ND	9.27	7.99	5.44	173-E15-213R141
25	Male	173-125MEA-ND	9.91	8.54	5.81	173-E25-113R141
	Female	173-125FEA-ND	13.46	11.61	7.89	173-E25-213R141
37	Male	173-137MEA-ND	12.95	11.17	7.60	173-E37-113R141
	Female	173-137FEA-ND	17.29	14.91	10.14	173-E37-213R141
50	Male	173-150MEA-ND	26.97	23.25	15.81	173-E50-113R141
	Female	173-150FEA-ND	28.47	24.55	16.70	173-E50-213R141
Short Bracket with 4-40 Screw						
Yellow Chromate — RoHS Compliant						
9	Male	173-209MEA-ND	5.58	4.82	3.28	173-E09-111R241
	Female	173-209FEA-ND	6.86	5.92	4.03	173-E09-211R241
15	Male	173-215MEA-ND	6.79	5.86	3.99	173-E15-111R241
	Female	1173-115FEA-ND	8.28	6.22	5.18	173-E15-211R241
25	Female	173-225FEA-ND	11.33	8.72	7.31	173-E25-211R241
37	Male	173-237MEA-ND	13.27	11.44	7.78	173-E37-111R241
	Female	173-237FEA-ND	18.85	16.26	11.06	173-E37-211R241
50	Male	1173-250MEA-ND	25.46	21.95	14.93	173-E50-111R241
	Female	1173-250FEA-ND	20.62	16.20	13.99	173-E50-211R241

174 Series (.370" Footprint)

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Short Bracket with 4-40 Screw Lock						
Tin						
15	Male	174-115M-ND	8.15	7.03	4.78	174-015-112-141
37	Male	174-137M-ND	11.98	10.33	7.03	174-037-112-141
	Female	174-137F-ND	14.73	12.70	8.64	174-037-212-141
Tin — RoHS Compliant						
9	Male	174-109MA-ND	6.02	5.19	3.53	174-009-112R141
	Female	174-109FA-ND	7.37	6.36	4.33	174-009-212R141
15	Male	174-115MA-ND	9.50	8.19	5.57	174-015-112R141
	Female	174-115FA-ND	9.67	8.34	5.67	174-015-212R141
25	Male	174-125MA-ND	12.38	10.67	7.26	174-025-112R141
	Female	174-125FA-ND	15.45	13.33	9.06	174-025-212R141
37	Male	174-137MA-ND	13.97	12.04	8.19	174-037-112R141
	Female	174-137FA-ND	17.18	14.81	10.07	174-037-212R141
50	Male	174-150MA-ND	29.69	25.60	17.41	174-050-112R141
	Female	174-150FA-ND	31.31	27.00	18.36	174-050-212R141

174E Series (.370" Footprint)

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Yellow Chromate						
9	Male	1174-09ME-ND	3.42	2.95	2.01	174-E09-111-001
15	Male	1174-15ME-ND	6.38	5.50	3.74	174-E15-111-001
	Female	1174-15FE-ND	6.55	5.65	3.85	174-E15-211-001
25	Male	1174-25ME-ND	8.87	7.65	5.21	174-E25-111-001
	Female	1174-25FE-ND	11.48	9.90	6.74	174-E25-211-001
37	Male	1174-37ME-ND	10.21	8.80	5.99	174-E37-111-001
	Female	1174-37FE-ND	13.02	11.23	7.64	174-E37-211-001
50	Male	1174-50ME-ND	11.80	10.18	6.92	174-E50-111-001
Yellow Chromate — RoHS Compliant						
9	Male	1174-09MEA-ND	3.75	3.24	2.20	174-E09-111R001
	Female	1174-09FEA-ND	4.99	4.31	2.93	174-E09-211R001
15	Male	1174-15MEA-ND	7.00	6.04	4.11	174-E15-111R001
	Female	1174-15FEA-ND	7.19	6.21	4.22	174-E15-211R001
25	Male	1174-25MEA-ND	9.75	8.41	5.72	174-E25-111R001
	Female	1174-25FEA-ND	12.62	10.88	7.40	174-E25-211R001
37	Male	1174-37MEA-ND	11.21	9.67	6.58	174-E37-111R001
	Female	1174-37FEA-ND	14.31	12.34	8.39	174-E37-211R001
50	Male	1174-50MEA-ND	12.97	11.18	7.61	174-E50-111R001
	Female	1174-50FEA-ND	23.66	20.40	13.87	174-E50-211R001
Tin						
9	Female	1174-109FE-ND	4.15	3.58	2.44	174-E09-212-001
15	Male	1174-115ME-ND	5.80	5.00	3.40	174-E15-112-001
	Female	1174-115FE-ND	5.95	5.13	3.49	174-E15-212-001
25	Female	1174-125FE-ND	10.44	9.00	6.12	174-E25-212-001
37	Male	1174-137ME-ND	9.28	8.00	5.44	174-E37-112-001
	Female	1174-137FE-ND	11.80	10.18	6.92	174-E37-212-001
50	Male	1174-150ME-ND	21.23	18.30	12.45	174-E50-112-001
	Female	1174-150FE-ND	23.14	19.95	13.57	174-E50-212-001
Nickel — RoHS Compliant						
9	Male	1174-109MEA-ND	3.74	2.58	2.11	174-E09-113R001
	Female	1174-109FEA-ND	5.02	3.56	2.92	174-E09-213R001
15	Male	1174-115MEA-ND	6.29	4.60	3.76	174-E15-113R001
	Female	1174-115FEA-ND	6.45	4.72	3.85	174-E15-213R001
25	Male	1174-125MEA-ND	8.06	6.05	5.04	174-E25-113R001
	Female	1174-125FEA-ND	10.01	7.62	6.53	174-E25-213R001
37	Male	1174-137MEA-ND	9.28	6.97	5.81	174-E37-113R001
	Female	1174-137FEA-ND	11.35	8.64	7.41	174-E37-213R001
50	Male	1174-150MEA-ND	10.29	7.83	6.71	174-E50-113R001
	Female	1174-150FEA-ND	17.13	13.87	11.63	174-E50-213R001
Short Bracket with 4-40 Screw Lock						
Yellow Chromate						
9	Male	174-09ME-ND	5.02	4.33	2.95	174-E09-111-141
	Female	174-09FE-ND	6.15	5.30	3.61	174-E09-211-141
15	Male	174-15ME-ND	7.98	6.88	4.68	174-E15-111-141
	Female	174-15FE-ND	8.15	7.03	4.78	174-E15-211-141
25	Male	174-25ME-ND	10.47	9.03	6.14	174-E25-111-141
	Female	174-25FE-ND	13.08	11.28	7.67	174-E25-211-141
37	Male	174-37ME-ND	11.80	10.18	6.92	174-E37-111-141
	Female	174-37FE-ND	14.62	12.60	8.57	174-E37-211-141
Yellow Chromate — RoHS Compliant						
9	Male	174-09MEA-ND	5.85	5.05	3.43	174-E09-111R141
	Female	174-09FEA-ND	7.17	6.18	4.21	174-E09-211R141
15	Male	174-15MEA-ND	9.30	8.02	5.46	174-E15-111R141
	Female	174-15FEA-ND	9.50	8.19	5.57	174-E15-211R141
25	Male	174-25MEA-ND	12.21	10.53	7.16	174-E25-111R141
	Female	174-25FEA-ND	15.25	13.15	8.95	174-E25-211R141
37	Male	174-37MEA-ND	13.76	11.87	8.07	174-E37-111R141
	Female	174-37FEA-ND	17.04	14.70	10.00	174-E37-211R141
50	Male	174-50MEA-ND	15.62	13.47	9.16	174-E50-111R141
	Female	174-50FEA-ND	26.98	23.27	15.82	174-E50-211R141
Tin						
9	Male	174-109ME-ND	4.70	4.05	2.76	174-E09-112-141
15	Male	174-115ME-ND	7.40	6.38	4.34	174-E15-112-141
	Female	174-115FE-ND	7.54	6.50	4.42	174-E15-212-141
25	Male	174-125ME-ND	9.66	8.33	5.67	174-E25-112-141
	Female	174-125FE-ND	12.04	10.38	7.06	174-E25-212-141
37	Male	174-137ME-ND	10.88	9.38	6.38	174-E37-112-141
	Female	174-137FE-ND	13.40	11.55	7.86	174-E37-212-141
50	Female	174-150FE-ND	24.42	21.05	14.32	174-E50-212-141
Nickel — RoHS Compliant						
9	Male	174-109MEA-ND	5.48	4.73	3.22	174-E09-113R141
	Female	174-109FEA-ND	6.70	5.78	3.93	174-E09-213R141
15	Male	174-115MEA-ND	8.62	7.44	5.06	174-E15-113R141
	Female	174-115FEA-ND	8.79	7.58	5.16	174-E15-213R141
25	Male	174-125MEA-ND	11.16	9.62	6.55	174-E25-113R141
	Female	174-125FEA-ND	14.03	12.10	8.23	174-E25-213R141
37	Male	174-137MEA-ND	12.68	10.94	7.44	174-E37-113R141
	Female	174-137FEA-ND	15.62	13.47	9.16	174-E37-213R141
50	Male	174-150MEA-ND	26.98	23.27	15.82	174-E50-113R141
	Female	174-150FEA-ND	28.47	24.55	16.70	174-E50-213R141
Short Bracket with 4-40 Screw						
Yellow Chromate — RoHS Compliant						
9	Male	174-209MEA-ND	5.52	4.76	3.24	174-E09-111R241
	Female	174-209FEA-ND	6.76	5.83	3.97	174-E09-211R241
15	Male	174-215MEA-ND	8.77	7.57	5.15	174-E15-111R241
	Female	174-215FEA-ND	8.96	7.73	5.26	174-E15-211R241
25	Female	174-225FEA-ND	14.39	12.41	8.44	174-E25-211R241
37	Male	174-237MEA-ND	12.98	11.20	7.62	174-E37-111R241
	Female	174-237FEA-ND	16.08	13.86	9.43	174-E37-211R241
50	Male	174-250MEA-ND	15.62	13.47	9.16	174-E50-111R241
	Female	174-250FEA-ND	25.43	21.92	14.91	174-E50-211R241

(Continued)

NorComp A DIVISION OF EDAC (AMERICA) LIMITED

Right Angle D-Sub Connectors *(Cont.)*

175 Series (.454" Footprint)

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Long Bracket with 4-40 Screw Lock - Tin						
15	Female	175-115F-ND	15.75	13.58	9.24	175-015-212-151
Tin — RoHS Compliant						
9	Male	175-109MA-ND	7.20	5.27	4.24	175-009-112R151
	Female	175-109FA-ND	11.37	8.66	7.42	175-009-212R151
15	Male	175-115MA-ND	9.24	6.93	5.78	175-015-112R151
	Female	175-115FA-ND	12.96	9.97	8.36	175-015-212R151
25	Male	175-125MA-ND	13.32	10.25	8.59	175-025-112R151
	Female	175-125FA-ND	12.31	9.47	7.94	175-025-212R151
37	Male	175-137MA-ND	17.39	14.08	11.80	175-037-112R151
	Female	175-137FA-ND	16.76	12.96	10.86	175-037-212R151

176 Series (.545" Footprint)

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Long Bracket with 4-40 Screw Lock - Tin						
9	Female	176-109F-ND	11.37	9.80	6.67	176-009-212-151
15	Male	176-115M-ND	6.12	5.28	3.59	176-015-112-151
	Female	176-115F-ND	12.30	10.60	7.21	176-015-212-151
25	Female	176-125F-ND	15.89	13.70	9.32	176-025-212-151

177 Series (.590" Footprint)

Conn. Size	Dimensions (Inch) A	B	C
9	1.228	0.984	0.436
15	1.556	1.312	0.763
25	2.100	1.852	1.308
37	2.742	2.500	1.962

Materials: • **Shell:** Steel, zinc with tin plating; or plastic • **Insulator:** Glass-filled thermoplastic, UL rated 94V-0 • **Stamped Contacts:** Cupronickel alloys • **Plating:** Gold over nickel on mating area, tin/lead on solder tails

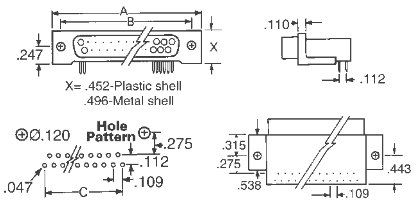

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Metal Shell with Inside Ground Straps and .120" Diameter Hole						
9	Male	177-709M-ND	12.70	10.95	7.45	177-009-112-161
15	Male	177-715M-ND	14.50	12.50	8.50	177-015-112-161
	Female	177-715F-ND	14.91	12.85	8.74	177-015-212-161
25	Female	177-725F-ND	8.66	6.50	5.42	177-025-212-161
37	Female	177-737F-ND	17.57	15.15	10.31	177-037-212-161
Metal Shell with Inside Ground Straps and 4-40 Flush Insert						
9	Female	309F-ND	9.31	8.03	5.46	177-009-212-171
15	Male	315M-ND	5.80	5.00	3.40	177-015-112-171
	Female	315F-ND	6.38	5.50	3.74	177-015-212-171
37	Female	337F-ND	12.18	10.50	7.14	177-037-212-171
Metal Shell with Inside Ground Straps and 4-40 Hex Standoff						
15	Male	177-815M-ND	6.26	5.40	3.68	177-015-112-181
	Female	177-815F-ND	6.67	5.75	3.91	177-015-212-181
25	Female	177-825F-ND	7.95	6.85	4.66	177-025-212-181
37	Male	177-837M-ND	8.70	7.50	5.10	177-037-112-181
Plastic Shell with .120" Diameter Hole						
9	Male	177-509M-ND	4.84	4.18	2.84	177-009-110-061
15	Male	177-515M-ND	6.41	5.53	3.76	177-015-110-061
37	Male	177-537M-ND	6.41	5.53	3.76	177-037-110-061
	Female	177-537F-ND	12.18	10.50	7.14	177-037-210-061
Plastic Shell with 4-40 Flush Insert						
15	Male	415M-ND	8.15	7.03	4.78	177-015-110-071
25	Male	425M-ND	6.29	5.43	3.69	177-025-110-071
37	Male	437M-ND	7.60	6.55	4.46	177-037-110-071
	Female	437F-ND	8.38	7.23	4.92	177-037-210-071
Plastic Shell with 4-40 Hex Standoff						
15	Male	177-615M-ND	5.22	4.50	3.06	177-015-110-081
	Female	177-615F-ND	11.37	9.80	6.67	177-015-210-081
37	Male	177-637M-ND	7.63	6.58	4.48	177-037-110-081
	Female	177-637F-ND	8.79	7.58	5.16	177-037-210-081

182 Economy Series (.318" Footprint)

Materials: • **Shell:** Steel, tin plating • **Shell-RoHS Compliant:** Steel, nickel plating • **Insulator:** Glass-filled thermoplastic, UL rated 94V-0 • **Stamped Contacts:** Brass • **Plating:** Gold flash on entire contact

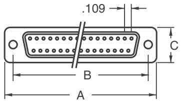

Connector Size	Dimensions (Inch) A	B	C
9	1.213	0.984	0.494
15	1.541	1.312	0.494
25	2.088	1.852	0.494
37	2.729	2.500	0.494

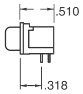

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Inside Ground Straps and .120" Diameter Hole						
Metal Shell						
37	Male	182-737M-ND	3.65	3.15	2.15	182-037-112-161
Nickel Shell — RoHS Compliant						
9	Male	182-709ME-ND	1.89	1.22	.94	182-009-113R161
	Female	182-709FE-ND	1.90	1.26	.97	182-009-213R161
15	Male	182-715ME-ND	2.11	1.37	1.08	182-015-113R161
	Female	182-715FE-ND	2.19	1.47	1.15	182-015-213R161
25	Male	182-725ME-ND	2.50	1.70	1.31	182-025-113R161
	Female	182-725FE-ND	2.58	1.75	1.35	182-025-213R161
37	Male	182-737ME-ND	3.22	2.15	1.75	182-037-113R161
	Female	182-737FE-ND	3.33	2.22	1.81	182-037-213R161
Inside Ground Straps and 4-40 Flush Insert						
Nickel Shell — RoHS Compliant						
9	Male	182-909ME-ND	1.88	1.21	.93	182-009-113R171
	Female	182-909FE-ND	1.90	1.26	.97	182-009-213R171
15	Male	182-915ME-ND	2.11	1.37	1.08	182-015-113R171
	Female	182-915FE-ND	2.19	1.47	1.15	182-015-213R171
25	Male	182-925ME-ND	2.50	1.70	1.31	182-025-113R171
	Female	182-925FE-ND	2.58	1.75	1.35	182-025-213R171
37	Male	182-937ME-ND	3.22	2.15	1.75	182-037-113R171
	Female	182-937FE-ND	3.33	2.22	1.81	182-037-213R171
Inside Ground Straps and 4-40 Hex Standoff						
Nickel Shell — RoHS Compliant						
9	Male	182-809ME-ND	2.15	1.43	1.13	182-009-113R181
	Female	182-809FE-ND	2.23	1.49	1.17	182-009-213R181
15	Male	182-815ME-ND	2.39	1.62	1.25	182-015-113R181
	Female	182-815FE-ND	2.54	1.72	1.33	182-015-213R181
25	Male	182-825ME-ND	2.89	1.96	1.54	182-025-113R181
	Female	182-825FE-ND	2.91	1.98	1.56	182-025-213R181
37	Male	182-837ME-ND	3.57	2.38	1.94	182-037-113R181
	Female	182-837FE-ND	3.55	2.45	2.00	182-037-213R181
Fork Board Locks in Front Hole and 4-40 Flush Insert						
Metal Shell						
25	Female	182-25F-ND	2.23	1.93	1.31	182-025-212-531
Nickel Shell — RoHS Compliant						
9	Male	182-09ME-ND	1.89	1.22	.94	182-009-113R531
	Female	182-09FE-ND	1.90	1.26	.97	182-009-213R531
15	Male	182-15ME-ND	2.11	1.37	1.08	182-015-113R531
	Female	182-15FE-ND	2.19	1.47	1.15	182-015-213R531
25	Male	182-25ME-ND	2.50	1.70	1.31	182-025-113R531
	Female	182-25FE-ND	2.57	1.74	1.35	182-025-213R531
37	Male	182-37ME-ND	3.22	2.15	1.75	182-037-113R531
	Female	182-37FE-ND	3.33	2.22	1.81	182-037-213R531
Fork Board Locks in Front Hole and 4-40 Hex Standoff						
Nickel Shell — RoHS Compliant						
9	Female	182-109FE-ND	2.24	1.50	1.18	182-009-213R561
25	Female	182-125FE-ND	2.93	1.99	1.56	182-025-213R561

183 Economy Series (.590" Footprint)

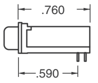

Materials: • **Shell:** Steel, tin plating • **Shell-RoHS Compliant:** Steel, nickel plating • **Insulator:** Glass-filled thermoplastic, UL rated 94V-0 • **Stamped Contacts:** Brass • **Plating:** Gold flash on entire contact

Conn. Size	Dimensions (Inch) A	B	C
9	1.213	0.984	0.494
15	1.541	1.312	0.494
25	2.088	1.852	0.494
37	2.729	2.500	0.494

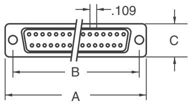

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Inside Ground Straps and .120" Diameter Hole						
Metal Shell						
15	Male	183-715M-ND	2.32	2.00	1.36	183-015-112-161
37	Female	183-737F-ND	4.35	3.75	2.55	183-037-212-161
Nickel Shell — RoHS Compliant						
9	Male	183-709ME-ND	3.54	2.05	1.93	183-009-113R161
	Female	183-709FE-ND	3.63	2.17	2.04	183-009-213R161
15	Male	183-715ME-ND	4.06	2.38	2.29	183-015-113R161
	Female	183-715FE-ND	4.29	2.52	2.42	183-015-213R161
25	Male	183-725ME-ND	4.73	2.88	2.71	183-025-113R161
	Female	183-725FE-ND	4.92	2.96	2.87	183-025-213R161
37	Male	183-737ME-ND	6.28	4.10	3.85	183-037-113R161
	Female	183-737FE-ND	6.65	4.34	4.07	183-037-213R161
Inside Ground Straps and 4-40 Flush Insert						
Metal Shell						
15	Female	183-915F-ND	2.41	2.08	1.42	183-015-212-171
37	Male	183-937M-ND	4.21	3.63	2.47	183-037-112-171
	Female	183-937F-ND	4.35	3.75	2.55	183-037-212-171
Nickel Shell — RoHS Compliant						
9	Male	183-909ME-ND	3.54	2.05	1.93	183-009-113R171
	Female	183-909FE-ND	3.63	2.17	2.04	183-009-213R171
15	Male	183-915ME-ND	4.06	2.38	2.29	183-015-113R171
	Female	183-915FE-ND	4.29	2.52	2.42	183-015-213R171
25	Male	183-925ME-ND	4.73	2.88	2.71	183-025-113R171
	Female	183-925FE-ND	4.92	2.96	2.87	183-025-213R171
37	Male	183-937ME-ND	6.28	4.10	3.85	183-037-113R171
	Female	183-937FE-ND	6.63	4.32	4.06	183-037-213R171
Inside Ground Straps and 4-40 Hex Standoff						
Metal Shell						
15	Female	183-815F-ND	2.64	2.28	1.55	183-015-212-181
Nickel Shell — RoHS Compliant						
9	Male	183-809ME-ND	3.74	2.24	2.11	183-009-113R181
	Female	183-809FE-ND	3.94	2.32	2.22	183-009-213R181
15	Male	183-815ME-ND	4.26	2.59	2.44	183-015-113R181
	Female	183-815FE-ND	4.48	2.72	2.56	183-015-213R181
25	Male	183-825ME-ND	4.98	2.99	2.90	183-025-113R181
	Female	183-825FE-ND	5.16	3.16	3.06	183-025-213R181
37	Male	183-837ME-ND	6.55	4.28	4.01	183-037-113R181
	Female	183-837FE-ND	6.95	4.54	4.26	183-037-213R181
Fork Board Locks in Front Hole and 4-40 Flush Insert						
Metal Shell						
15	Male	183-15M-ND	1.94	1.68	1.14	183-015-112-531
37	Female	183-37F-ND	3.63	3.13	2.13	183-037-212-531
Nickel Shell — RoHS Compliant						
9	Male	183-09ME-ND	3.74	2.24	2.11	183-009-113R531
	Female	183-09FE-ND	3.63	2.17	2.04	183-009-213R531
15	Male	183-15ME-ND	4.06	2.38	2.29	183-015-113R531
	Female	183-15FE-ND	4.29	2.52	2.42	183-015-213R531
25	Male	183-25ME-ND	4.73	2.88	2.71	183-025-113R531
	Female	183-25FE-ND	4.92	2.96	2.87	183-025-213R531
37	Male	183-37ME-ND	6.28	4.10	3.85	183-037-113R531
	Female	183-37FE-ND	6.63	4.32	4.06	183-037-213R531
Fork Board Locks in Rear Hole and 4-40 Hex Standoffs						
Nickel Shell — RoHS Compliant						
9	Male	183-309ME-ND	3.74	2.58	2.11	183-009-113R541
	Female	183-309FE-ND	3.97	2.74	2.24	183-009-213R541
15	Male	183-315ME-ND	4.26	2.97	2.44	183-015-113R541
	Female	183-315FE-ND	4.29	2.96	2.42	183-015-213R541
25	Male	183-325ME-ND	4.98	3.53	2.90	183-025-113R541
	Female	183-325FE-ND	5.16	3.73	3.06	183-025-213R541
37	Male	183-337ME-ND	6.58	4.87	4.03	183-037-113R541
	Female	183-337FE-ND	6.63	4.91	4.06	183-037-213R541
Fork Board Locks in Front Hole and 4-40 Hex Standoffs						
Nickel Shell — RoHS Compliant						
9	Male	183-209ME-ND	3.74	2.58	2.11	183-009-113R561
	Female	183-209FE-ND	3.97	2.74	2.24	183-009-213R561
15	Male	183-215ME-ND	4.26	2.97	2.44	183-015-113R561
	Female	183-215FE-ND	4.29	2.96	2.42	183-015-213R561
25	Male	183-225ME-ND	4.98	3.53	2.90	183-025-113R561
	Female	183-225FE-ND	5.16	3.73	3.06	183-025-213R561
37	Male	183-237ME-ND	6.58	4.87	4.03	183-037-113R561
	Female	183-237FE-ND	6.63	4.91	4.06	183-037-213R561
Fork Board Locks in Rear Hole and 4-40 Flush Inserts						
Nickel Shell — RoHS Compliant						
9	Male	183-109ME-ND	3.54	2.36	1.93	183-009-113R571
	Female	183-109FE-ND	3.63	2.50	2.04	183-009-213R571
15	Male	183-115ME-ND	4.06	2.80	2.29	183-015-113R571
	Female	183-115FE-ND	4.06	2.80	2.29	183-015-213R571
25	Male	183-125ME-ND	4.76	3.32	2.72	183-025-113R571
	Female	183-125FE-ND	4.92	3.50	2.87	183-025-213R571
37	Male	183-137ME-ND	6.28	4.65	3.85	183-037-113R571
	Female	183-137FE-ND	6.63	4.91	4.06	183-037-213R571

NorComp
A DIVISION OF EDAC (AMERICA) LIMITED

Dual Port Right Angle D-Sub Connectors

178, 179 and 189 Series

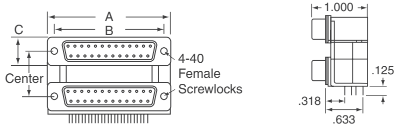

Materials: • **Shell:** Steel, zinc with tin plating • **Shell – RoHS Compliant:** Steel, nickel plating • **Contacts:** Gold flash over brass plating • **Insulator:** Glass-filled thermoplastic, UL 94V-0 rated, black

Connector Size	Dimensions – Inch		
	A	B	C
9	1.204	0.984	0.494
15	1.535	1.312	0.494
25	2.078	1.850	0.494
37	2.724	2.500	0.494

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
178 Series – .750 Centers						
4-40 Flush Insert / Fork Board Locks — RoHS Compliant						
9/9	M/M	178-409MME-ND	6.50	4.81	3.98	178-009-613R491
15/15	M/M	178-415MME-ND	7.87	5.91	4.92	178-015-613R491
25/25	M/M	178-425MME-ND	9.12	6.84	5.70	178-025-613R491
37/37	M/M	178-437MME-ND	12.33	9.48	7.95	178-037-613R491
9/9	M/F	178-09MFE-ND	6.50	4.81	3.98	178-009-413R491
15/15	M/F	178-15MFE-ND	7.87	5.91	4.92	178-015-413R491
25/25	M/F	178-25MFE-ND	9.12	6.84	5.70	178-025-413R491
37/37	M/F	178-37MFE-ND	12.33	9.48	7.95	178-037-413R491
9/9	F/F	178-209FFE-ND	6.50	4.81	3.98	178-009-513R491
15/15	F/F	178-215FFE-ND	7.87	5.91	4.92	178-015-513R491
25/25	F/F	178-225FFE-ND	9.12	6.84	5.70	178-025-513R491
37/37	F/F	178-237FFE-ND	12.33	9.48	7.95	178-037-513R491
4-40 Flush Insert / Board Locks, Rear Holes — RoHS Compliant						
9/9	M/M	178-509MME-ND	6.50	4.81	3.98	178-009-613R691
15/15	M/M	178-515MME-ND	7.87	5.91	4.92	178-015-613R691
25/25	M/M	178-525MME-ND	9.12	6.84	5.70	178-025-613R691
37/37	M/M	178-537MME-ND	12.33	9.48	7.95	178-037-613R691
9/9	M/F	178-109MFE-ND	6.50	4.81	3.98	178-009-413R691
15/15	M/F	178-115MFE-ND	7.87	5.91	4.92	178-015-413R691
25/25	M/F	178-125MFE-ND	9.12	6.84	5.70	178-025-413R691
37/37	M/F	178-137MFE-ND	12.33	9.48	7.95	178-037-413R691
9/9	F/F	178-309FFE-ND	6.50	4.81	3.98	178-009-513R691
15/15	F/F	178-315FFE-ND	7.87	5.91	4.92	178-015-513R691
25/25	F/F	178-325FFE-ND	9.12	6.84	5.70	178-025-513R691
37/37	F/F	178-337FFE-ND	12.33	9.48	7.95	178-037-513R691
4-40 Hex Standoffs / Fork Board Locks — RoHS Compliant						
9/9	M/M	1109MME-ND	6.50	4.24	3.98	178-009-613R571
15/15	M/M	1115MME-ND	7.87	5.25	4.92	178-015-613R571
25/25	M/M	1125MME-ND	9.12	6.08	5.70	178-025-613R571
37/37	M/M	1137MME-ND	12.33	8.39	7.95	178-037-613R571
9/9	M/F	1109MFE-ND	6.50	4.24	3.98	178-009-413R571
15/15	M/F	1115MFE-ND	7.87	5.25	4.92	178-015-413R571
25/25	M/F	1125MFE-ND	9.12	6.08	5.70	178-025-413R571
37/37	M/F	1137MFE-ND	12.33	8.39	7.95	178-037-413R571
9/9	F/F	1109FFE-ND	6.50	4.24	3.98	178-009-513R571
15/15	F/F	1115FFE-ND	7.87	5.25	4.92	178-015-513R571
25/25	F/F	1125FFE-ND	9.12	6.08	5.70	178-025-513R571
37/37	F/F	1137FFE-ND	12.33	8.39	7.95	178-037-513R571
9/9	F/M	1109FME-ND	6.50	4.24	3.98	178-009-313R571
15/15	F/M	1115FME-ND	7.87	5.25	4.92	178-015-313R571
25/25	F/M	1125FME-ND	9.12	6.08	5.70	178-025-313R571
37/37	F/M	1137FME-ND	12.33	8.39	7.95	178-037-313R571
4-40 Hex Standoffs / Fork Board Locks						
37/37	M/M	1137MM-ND	13.40	11.55	7.86	178-037-612-571
37/37	F/F	1137FF-ND	13.40	11.55	7.86	178-037-512-571
179 Series – .900 Centers						
4-40 Flush Insert / Fork Board Locks — RoHS Compliant						
9/9	M/M	179-409MME-ND	6.50	4.81	3.98	179-009-613R491
15/15	M/M	179-415MME-ND	7.87	5.91	4.92	179-015-613R491
25/25	M/M	179-425MME-ND	9.12	6.84	5.70	179-025-613R491
37/37	M/M	179-437MME-ND	12.33	9.48	7.95	179-037-613R491
9/9	M/F	179-09MFE-ND	6.50	4.81	3.98	179-009-413R491
15/15	M/F	179-15MFE-ND	7.87	5.91	4.92	179-015-413R491
25/25	M/F	179-25MFE-ND	9.12	6.84	5.70	179-025-413R491
37/37	M/F	179-37MFE-ND	12.33	9.48	7.95	179-037-413R491
9/9	F/F	179-209FFE-ND	6.50	4.81	3.98	179-009-513R491
15/15	F/F	179-215FFE-ND	7.87	5.91	4.92	179-015-513R491
25/25	F/F	179-225FFE-ND	9.12	6.84	5.70	179-025-513R491
37/37	F/F	179-237FFE-ND	12.33	9.48	7.95	179-037-513R491
4-40 Flush Insert / Board Locks, Rear Holes — RoHS Compliant						
9/9	M/M	179-509MME-ND	6.50	4.81	3.98	179-009-613R691
15/15	M/M	179-515MME-ND	7.87	5.91	4.92	179-015-613R691
25/25	M/M	179-525MME-ND	9.12	6.84	5.70	179-025-613R691
37/37	M/M	179-537MME-ND	12.33	9.48	7.95	179-037-613R691
9/9	M/F	179-109MFE-ND	6.50	4.81	3.98	179-009-413R691
15/15	M/F	179-115MFE-ND	7.87	5.91	4.92	179-015-413R691
25/25	M/F	179-125MFE-ND	9.12	6.84	5.70	179-025-413R691
37/37	M/F	179-137MFE-ND	12.33	9.48	7.95	179-037-413R691
9/9	F/F	179-309FFE-ND	6.50	4.81	3.98	179-009-513R691
15/15	F/F	179-315FFE-ND	7.87	5.91	4.92	179-015-513R691
25/25	F/F	179-325FFE-ND	9.12	6.84	5.70	179-025-513R691
37/37	F/F	179-337FFE-ND	12.33	9.48	7.95	179-037-513R691
4-40 Hex Standoffs / Fork Board Locks — RoHS Compliant						
9/9	M/M	1209MME-ND	6.50	4.24	3.98	179-009-613R571
15/15	M/M	1215MME-ND	7.87	5.25	4.92	179-015-613R571
25/25	M/M	1225MME-ND	9.12	6.08	5.70	179-025-613R571
37/37	M/M	1237MME-ND	12.33	8.39	7.95	179-037-613R571
9/9	M/F	1209MFE-ND	6.50	4.24	3.98	179-009-413R571
15/15	M/F	1215MFE-ND	7.87	5.25	4.92	179-015-413R571
25/25	M/F	1225MFE-ND	9.12	6.08	5.70	179-025-413R571
37/37	M/F	1237MFE-ND	12.33	8.39	7.95	179-037-413R571
9/9	F/F	1209FFE-ND	6.50	4.24	3.98	179-009-513R571
15/15	F/F	1215FFE-ND	7.87	5.25	4.92	179-015-513R571
25/25	F/F	1225FFE-ND	9.12	6.08	5.70	179-025-513R571
37/37	F/F	1237FFE-ND	12.33	8.39	7.95	179-037-513R571
9/9	F/M	1209FME-ND	6.50	4.24	3.98	179-009-313R571
15/15	F/M	1215FME-ND	7.87	5.25	4.92	179-015-313R571
25/25	F/M	1225FME-ND	9.12	6.08	5.70	179-025-313R571
37/37	F/M	1237FME-ND	12.33	8.39	7.95	179-037-313R571
4-40 Hex Standoffs / Fork Board Locks						
15/15	M/M	1215MM-ND	8.24	7.10	4.83	179-015-612-571
25/25	M/M	1225MM-ND	8.85	7.63	5.19	179-025-612-571
37/37	M/M	1237MM-ND	13.40	11.55	7.86	179-037-612-571
25/25	F/F	1225FF-ND	8.85	7.63	5.19	179-025-512-571
9/9	F/M	1209FM-ND	5.48	4.73	3.22	179-009-312-571
15/15	F/M	1215FM-ND	8.24	7.10	4.83	179-015-312-571
37/37	F/M	1237FM-ND	13.40	11.55	7.86	179-037-312-571
189 Series – .625 Centers						
4-40 Flush Insert / Fork Board Locks — RoHS Compliant						
9/9	M/M	189-409MME-ND	6.50	4.81	3.98	189-009-613R491
15/15	M/M	189-415MME-ND	7.87	5.91	4.92	189-015-613R491
25/25	M/M	189-425MME-ND	9.12	6.84	5.70	189-025-613R491
37/37	M/M	189-437MME-ND	12.33	9.48	7.95	189-037-613R491
9/9	M/F	189-09MFE-ND	6.50	4.81	3.98	189-009-413R491
15/15	M/F	189-15MFE-ND	7.87	5.91	4.92	189-015-413R491
25/25	M/F	189-25MFE-ND	9.12	6.84	5.70	189-025-413R491
37/37	M/F	189-37MFE-ND	12.33	9.48	7.95	189-037-413R491
9/9	F/F	189-209FFE-ND	6.50	4.81	3.98	189-009-513R491
15/15	F/F	189-215FFE-ND	7.87	5.91	4.92	189-015-513R491
25/25	F/F	189-225FFE-ND	9.12	6.84	5.70	189-025-513R491
37/37	F/F	189-237FFE-ND	12.33	9.48	7.95	189-037-513R491
4-40 Flush Insert / Board Locks, Rear Holes — RoHS Compliant						
9/9	M/M	189-509MME-ND	6.50	4.81	3.98	189-009-613R691
15/15	M/M	189-515MME-ND	7.87	5.91	4.92	189-015-613R691
25/25	M/M	189-525MME-ND	9.12	6.84	5.70	189-025-613R691
37/37	M/M	189-537MME-ND	12.33	9.48	7.95	189-037-613R691
9/9	M/F	189-109MFE-ND	6.50	4.81	3.98	189-009-413R691
15/15	M/F	189-115MFE-ND	7.87	5.91	4.92	189-015-413R691
25/25	M/F	189-125MFE-ND	9.12	6.84	5.70	189-025-413R691
37/37	M/F	189-137MFE-ND	12.33	9.48	7.95	189-037-413R691
9/9	F/F	189-309FFE-ND	6.50	4.81	3.98	189-009-513R691
15/15	F/F	189-315FFE-ND	7.87	5.91	4.92	189-015-513R691
25/25	F/F	189-325FFE-ND	9.12	6.84	5.70	189-025-513R691
37/37	F/F	189-337FFE-ND	12.33	9.48	7.95	189-037-513R691
4-40 Hex Standoffs / Fork Board Locks — RoHS Compliant						
9/9	M/M	1009MME-ND	6.50	4.24	3.98	189-009-613R571
15/15	M/M	1015MME-ND	7.87	5.25	4.92	189-015-613R571
25/25	M/M	1025MME-ND	9.12	6.08	5.70	189-025-613R571
37/37	M/M	1037MME-ND	12.33	8.39	7.95	189-037-613R571
9/9	M/F	1009MFE-ND	6.50	4.24	3.98	189-009-413R571
15/15	M/F	1015MFE-ND	7.87	5.25	4.92	189-015-413R571
25/25	M/F	1025MFE-ND	9.12	6.08	5.70	189-025-413R571
37/37	M/F	1037MFE-ND	12.33	8.39	7.95	189-037-413R571
9/9	F/F	1009FFE-ND	6.50	4.24	3.98	189-009-513R571
15/15	F/F	1015FFE-ND	7.87	5.25	4.92	189-015-513R571
25/25	F/F	1025FFE-ND	9.12	6.08	5.70	189-025-513R571
37/37	F/F	1037FFE-ND	12.33	8.39	7.95	189-037-513R571
9/9	F/M	1009FME-ND	6.50	4.24	3.98	189-009-313R571
15/15	F/M	1015FME-ND	7.87	5.25	4.92	189-015-313R571
25/25	F/M	1025FME-ND	9.12	6.08	5.70	189-025-313R571
37/37	F/M	1037FME-ND	12.33	8.39	7.95	189-037-313R571
4-40 Hex Standoffs / Fork Board Locks						
37/37	M/M	1037MM-ND	13.40	11.55	7.86	189-037-612-571
15/15	M/F	1015MF-ND	8.24	7.10	4.83	189-015-412-571
37/37	M/F	1037MF-ND	13.40	11.55	7.86	189-037-412-571
37/37	F/F	1037FF-ND	13.40	11.55	7.86	189-037-512-571
37/37	F/M	1037FM-ND	13.40	11.55	7.86	189-037-312-571

Surface Mount D-Sub Connectors

190 and 200 Series

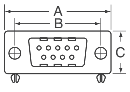

Materials: • Shell: Steel, zinc or tin plating • **Insulator:** Nylon 6T, UL 94V-0 rated • **Contacts:** Phosphor bronze • **Plating:** Gold flash on mating area, tin/lead on terminating area

Connector Size	Dimensions – Inch		
	A	B	C
9	1.183	0.984	0.494
15	1.183	0.984	0.494
25	2.089	1.852	0.494

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Series 190 – Right Angle — RoHS Compliant (.120 Diameter Hole and 4-40 UNC Threaded Insert)						
9	Male	190-09MA-ND	2.76	1.82	1.47	190-009-163R001
	Female	190-09FA-ND	2.76	1.82	1.47	190-009-263R001
25	Male	190-25MA-ND	4.16	2.87	2.34	190-025-163R001
	Female	190-25FA-ND	4.16	2.87	2.34	190-025-263R001
Series 200 – High Density Right Angle — RoHS Compliant (.120 Diameter Hole and 4-40 UNC Threaded Insert)						
15	Female	200-15FA-ND	3.53	2.36	1.93	200-015-263R001

Press Fit D-Sub Connectors

191 Series

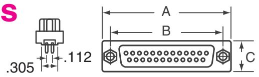

Materials: • Shell: Steel, nickel or tin plated • Insulator: Nylon, UL 94V-0 rated • **Contacts:** Male - Brass; Female - Phosphor bronze • Plating: Gold flash on mating area, tin/lead on terminating area

Connector Size	Dimensions – Inch		
	A	B	C
9	1.214	.984	.494
15	1.545	1.312	.494
25	2.088	1.852	.494
37	2.730	2.500	.494

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
.125 Fastening Hole Size						
9	Male	191-09M-ND	2.78	2.40	1.64	191-009-122-001
15	Male	191-15M-ND	3.83	3.30	2.25	191-015-122-001
	Female	191-15F-ND	4.18	3.60	2.45	191-015-222-001
25	Female	191-25F-ND	5.74	4.95	3.37	191-025-222-001
37	Female	191-37F-ND	7.31	6.30	4.29	191-037-222-001
.125 Fastening Hole Size — RoHS Compliant						
9	Male	191-09MA-ND	3.20	2.14	1.75	191-009-123R001
	Female	191-09FA-ND	3.27	2.19	1.78	191-009-223R001
15	Male	191-15MA-ND	4.26	2.94	2.40	191-015-123R001
	Female	191-15FA-ND	4.49	3.13	2.57	191-015-223R001
25	Male	191-25MA-ND	5.50	3.98	3.26	191-025-123R001
	Female	191-25FA-ND	5.73	4.19	3.42	191-025-223R001
37	Male	191-37MA-ND ***NEW!***	6.43	4.76	3.94	191-037-123R001
	Female	191-37FA-ND	7.01	5.19	4.30	191-037-223R001

High Density over (2)PS/2

RoHS COMPLIANT

999 Series

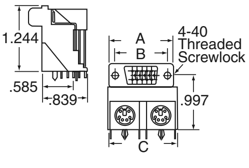

Materials:
- **Shell:** Steel, nickel plated
- **Insulator:** PBT UL 94V-0 rated
- **Contacts:** Brass
- **Platings:** Gold flash contacts

Connector Size	Dimensions – Inch		
	A	B	C
15	1.213	0.984	1.284

No. of Pins	Type	Digi-Key Part Noa.	Price Each 1	10	100	NorComp Part No.
15	Female	999-H15FA-ND	8.03	5.78	4.82	999-H15-PS2L571

Crimp and Poke D-Sub Connectors 170 Series

Features: • Available in 5 industry sizes/positions • Low cost commercial version of military standard • Tin or Yellow Chromate shells • Allows for easy loading of only the positions required using Crimp and Snap-in contacts • Tin-plated connector shells have indents to provide grounding and additional retention • Nylon insulator has a minimum contact retention of 10 pounds • Contact current rating: 5 amps
Materials: • **Shell:** Steel, zinc-plated with yellow chromate or bright tin plating • **Shell – RoHS Compliant:** Steel, nickel plating • **Insulator:** Glass-filled thermoplastic, UL 94V-0 rated

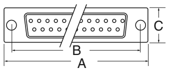

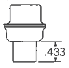

Uses Snap-In Contacts (sold separately)

Connector Size	Dimensions – Inch A	B	C
9	1.213	0.984	0.496
15	1.541	1.312	0.496
25	2.087	1.852	0.496
37	2.732	2.500	0.496
50	2.638	2.406	0.602

Snap-In Contacts for Crimp D-Sub Connectors

Features: • Low cost and high performance stamped contacts features insulation support for increased holding power • **Contact Range:** 24 ~ 28 AWG • Contacts are commercial quality stamped and are compatible with industry tooling
Material: • **Male Pins:** Brass • **Female Pins:** Phosphor bronze • **Male Pins – RoHS Compliant:** Brass • **Female Pins – RoHS Compliant:** Brass

Pin

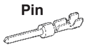

Socket

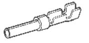

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Crimp D-Sub Standard						
Tin Shell						
50	Female	750F-ND	2.12	1.83	1.25	170-050-272-000
Nickel Shell — RoHS Compliant						
9	Male	709ME-ND	.73	.63	.43	170-009-173L000
	Female	709FE-ND	.77	.67	.46	170-009-273L000
15	Male	715ME-ND	.85	.73	.50	170-015-173L000
	Female	715FE-ND	.93	.81	.55	170-015-273L000
25	Male	725ME-ND	.89	.77	.53	170-025-173L000
	Female	725FE-ND	.95	.82	.56	170-025-273L000
37	Male	737ME-ND	1.75	1.51	1.03	170-037-173L000
	Female	737FE-ND	1.79	1.55	1.05	170-037-273L000
50	Male	750ME-ND	5.33	4.60	3.13	170-050-173L000
	Female	750FE-ND	5.33	4.60	3.13	170-050-273L000
Yellow Chromate						
37	Female	1737F-ND	2.00	1.73	1.18	170-037-271-000
Yellow Chromate — RoHS Compliant						
9	Male	1709MA-ND	1.01	.62	.46	170-009-171L000
	Female	1709FA-ND	1.00	.63	.48	170-009-271L000
15	Male	1715MA-ND	1.10	.69	.53	170-015-171L000
	Female	1715FA-ND	1.18	.76	.55	170-015-271L000
25	Male	1725ME-ND	1.70	1.09	.83	170-025-171L000
	Female	1725FA-ND	1.21	.78	.56	170-025-271L000
37	Male	1737MA-ND	1.93	1.28	.99	170-037-171L000
	Female	1737FA-ND	1.98	1.31	1.01	170-037-271L000
50	Male	1750MA-ND	4.85	3.38	2.78	170-050-171L000
	Female	1750FA-ND	4.85	3.38	2.78	170-050-271L000
Crimp with .065" Clinch Nuts, Board Side						
Tin Shell						
37	Male	5737M-ND	2.76	2.38	1.62	170-037-172-010
	Female	5737F-ND	2.73	2.35	1.60	170-037-272-010
50	Male	5750M-ND	3.54	3.05	2.08	170-050-172-010
	Female	5750F-ND	3.19	2.75	1.87	170-050-272-010
Nickel Shell — RoHS Compliant						
9	Male	5709ME-ND	1.65	1.43	.97	170-009-173L010
	Female	5709FE-ND	1.69	1.46	1.00	170-009-273L010
15	Male	5715ME-ND	1.77	1.53	1.04	170-015-173L010
	Female	5715FE-ND	1.85	1.60	1.09	170-015-273L010
25	Male	5725ME-ND	1.81	1.57	1.07	170-025-173L010
	Female	5725FE-ND	1.87	1.62	1.10	170-025-273L010
37	Male	5737ME-ND	1.84	1.59	1.08	170-037-173L010
	Female	5737FE-ND	2.71	2.34	1.59	170-037-273L010
50	Male	5750ME-ND	6.25	5.39	3.67	170-050-173L010
	Female	5750FE-ND	6.25	5.39	3.67	170-050-273L010
Yellow Chromate						
37	Male	2737M-ND	2.76	2.38	1.62	170-037-171-010
50	Female	2750F-ND	2.76	2.38	1.62	170-050-271-010
Yellow Chromate — RoHS Compliant						
9	Male	2709MA-ND	1.88	1.22	.94	170-009-171L010
	Female	2709FA-ND	1.87	1.24	.96	170-009-271L010
15	Male	2715MA-ND	1.96	1.30	1.00	170-015-171L010
	Female	2715FA-ND	2.85	1.94	1.52	170-015-271L010
25	Male	2725MA-ND	2.79	1.89	1.49	170-025-171L010
	Female	2725FA-ND	2.07	1.34	1.06	170-025-271L010
37	Male	2737MA-ND	2.04	1.35	1.04	170-037-171L010
	Female	2737FA-ND	2.82	1.86	1.50	170-037-271L010
50	Male	2750MA-ND	5.29	3.87	3.16	170-050-171L010
	Female	2750FA-ND	5.29	3.87	3.16	170-050-271L010
Crimp with .250" Clinch Nuts, Board Side						
Tin Shell						
9	Male	6709M-ND	1.71	1.48	1.01	170-009-172-020
15	Female	6715F-ND	1.94	1.68	1.14	170-015-272-020
37	Male	6737M-ND	2.76	2.38	1.62	170-037-172-020
	Female	6737F-ND	2.73	2.35	1.60	170-037-272-020
50	Male	6750M-ND	3.54	3.05	2.08	170-050-172-020
Nickel Shell — RoHS Compliant						
9	Male	6709ME-ND	1.65	1.43	.97	170-009-173L020
	Female	6709FE-ND	1.69	1.46	1.00	170-009-273L020
15	Male	6715ME-ND	1.77	1.53	1.04	170-015-173L020
	Female	6715FE-ND	1.85	1.60	1.09	170-015-273L020
25	Male	6725ME-ND	1.81	1.57	1.07	170-025-173L020
	Female	6725FE-ND	1.87	1.62	1.10	170-025-273L020
37	Male	6737ME-ND	1.84	1.59	1.08	170-037-173L020
	Female	6737FE-ND	2.71	2.34	1.59	170-037-273L020
50	Male	6750ME-ND	6.25	5.39	3.67	170-050-173L020
	Female	6750FE-ND	6.25	5.39	3.67	170-050-273L020
Yellow Chromate						
9	Female	3709F-ND	2.23	1.93	1.31	170-009-271-020
15	Male	3715M-ND	2.26	1.95	1.33	170-015-171-020
50	Female	3750F-ND	2.76	2.38	1.62	170-050-271-020
Yellow Chromate — RoHS Compliant						
9	Male	3709MA-ND	1.88	1.22	.94	170-009-171L020
	Female	3709FA-ND	1.87	1.24	.96	170-009-271L020
15	Male	3715MA-ND	1.96	1.30	1.00	170-015-171L020
	Female	3715FA-ND	2.05	1.33	1.05	170-015-271L020
25	Male	3725MA-ND	2.01	1.33	1.03	170-025-171L020
	Female	3725FA-ND	2.07	1.34	1.06	170-025-271L020
37	Male	3737MA-ND	2.04	1.35	1.04	170-037-171L020
50	Male	3750MA-ND	5.29	3.87	3.16	170-050-171L020
	Female	3750FA-ND	5.29	3.87	3.16	170-050-271L020
Crimp with .250" Clinch Nuts, Mating Side						
Tin Shell						
15	Male	7715M-ND	1.83	1.58	1.08	170-015-172-030
	Female	7715F-ND	1.94	1.68	1.14	170-015-272-030
37	Male	7737M-ND	2.76	2.38	1.62	170-037-172-030
50	Female	7750F-ND	3.19	2.75	1.87	170-050-272-030
Nickel Shell — RoHS Compliant						
9	Male	7709ME-ND	1.65	1.43	.97	170-009-173L030
	Female	7709FE-ND	1.69	1.46	1.00	170-009-273L030
15	Male	7715ME-ND	1.77	1.53	1.04	170-015-173L030
	Female	7715FE-ND	1.85	1.60	1.09	170-015-273L030
25	Male	7725ME-ND	1.81	1.57	1.07	170-025-173L030
	Female	7725FE-ND	1.87	1.62	1.10	170-025-273L030
37	Male	7737ME-ND	1.84	1.59	1.08	170-037-173L030
	Female	7737FE-ND	2.71	2.34	1.59	170-037-273L030
50	Male	7750ME-ND	6.25	5.39	3.67	170-050-173L030
	Female	7750FE-ND	6.25	5.39	3.67	170-050-273L030
Yellow Chromate						
9	Female	4709F-ND	2.23	1.93	1.31	170-009-271-030
15	Female	4715F-ND	2.23	1.93	1.31	170-015-271-030
37	Female	4737F-ND	2.87	2.48	1.69	170-037-271-030
Yellow Chromate — RoHS Compliant						
9	Female	4709FA-ND	1.87	1.24	.96	170-009-271L030
15	Male	4715MA-ND	1.96	1.30	1.00	170-015-171L030
	Female	4715FA-ND	2.05	1.33	1.05	170-015-271L030
25	Male	4725MA-ND	2.01	1.33	1.03	170-025-171L030
	Female	4725FA-ND	2.07	1.34	1.06	170-025-271L030
37	Male	4737MA-ND	2.04	1.35	1.04	170-037-171L030
	Female	4737FA-ND	2.90	1.97	1.55	170-037-271L030
50	Male	4750MA-ND	5.29	3.87	3.16	170-050-171L030
	Female	4750FA-ND	5.29	3.87	3.16	170-050-271L030
Stamped Contacts 24 ~ 28 AWG — RoHS Compliant						
—	Socket	82SECT-ND†	—	.19	.13	170-002-170L002
		82SETR-ND‡	975.00/10,000			170-002-170L002
—	Socket	82SSFECT-NDΔ†	—	.16	.11	170-002-170L001
		82SSFETR-NDΔ‡	837.50/10,000			170-002-170L001
—	Socket	85SE-ND	—	.36	.14	170-102-170L001
		86SE-ND	—	.43	.17	170-102-170L002
—	Pin	82PECT-ND†	—	.15	.10	170-001-170L002
		82PETR-ND‡	762.50/10,000			170-001-170L002
—	Pin	82PSFECT-NDΔ†	—	.12	.08	170-001-170L001
		82PSFETR-NDΔ‡	625.00/10,000			170-001-170L001
—	Pin	83PE-ND	—	.31	.11	170-101-170L001
		84PE-ND	—	.38	.14	170-101-170L002
Machined Contacts 20 ~ 26 AWG — RoHS Compliant						
—	Socket	88SE-ND	—	.69	.28	170-202-170L002
		89SE-ND	—	.77	.56	170-202-170L003
—	Pin	87PE-ND	—	.51	.20	170-201-170L002
NEW! Crimp – Tin — RoHS Compliant NEW!						
9	Male	709MER-ND	1.01	.63	.47	170-009-172L000
	Female	709FER-ND	1.06	.67	.50	170-009-272L000
15	Male	715MER-ND	1.17	.73	.55	170-015-172L000
	Female	715FER-ND	1.25	.81	.58	170-015-272L000
25	Male	725MER-ND	1.20	.77	.56	170-025-172L000
	Female	725FER-ND	1.28	.79	.60	170-025-272L000
37	Male	737MER-ND	2.05	1.33	1.05	170-037-172L000
	Female	737FER-ND	2.10	1.36	1.07	170-037-272L000
50	Male	750MER-ND	5.05	3.59	2.94	170-050-172L000
	Female	750FER-ND	5.05	3.59	2.94	170-050-272L000
NEW! Crimp – Tin with .098" Clinch Nut, Board Side — RoHS Compliant NEW!						
9	Male	5709MER-ND	1.94	1.29	.99	170-009-172L010
	Female	5709FER-ND	1.98	1.32	1.01	170-009-272L010
15	Male	5715MER-ND	2.07	1.35	1.06	170-015-172L010
	Female	5715FER-ND	2.17	1.41	1.11	170-015-272L010
25	Male	5725MER-ND	2.13	1.38	1.09	170-025-172L010
	Female	5725FER-ND	2.20	1.43	1.12	170-025-272L010
37	Male	5737MER-ND	2.90	1.97	1.55	170-037-172L010
	Female	5737FER-ND	2.91	1.97	1.55	170-037-272L010
50	Male	5750MER-ND	5.60	4.10	3.35	170-050-172L010
	Female	5750FER-ND	5.60	4.10	3.35	170-050-272L010
NEW! Crimp – Tin with .250 Clinch Nut, Board Side — RoHS Compliant NEW!						
9	Male	6709MER-ND	1.94	1.29	.99	170-009-172L020
	Female	6709FER-ND	1.98	1.32	1.01	170-009-272L020
15	Male	6715MER-ND	2.07	1.35	1.06	170-015-172L020
	Female	6715FER-ND	2.17	1.41	1.11	170-015-272L020
25	Male	6725MER-ND	2.13	1.38	1.09	170-025-172L020
	Female	6725FER-ND	2.20	1.43	1.12	170-025-272L020
37	Male	6737MER-ND	2.90	1.97	1.55	170-037-172L020
	Female	6737FER-ND	2.90	1.97	1.55	170-037-272L020
50	Male	6750MER-ND	5.60	4.10	3.35	170-050-172L020
	Female	6750FER-ND	5.60	4.10	3.35	170-050-272L020
NEW! Crimp – Tin with .250 Clinch Nut, Mating Side — RoHS Compliant NEW!						
9	Male	7709MER-ND	1.94	1.29	.99	170-009-172L030
	Female	7709FER-ND	1.98	1.32	1.01	170-009-272L030
15	Male	7715MER-ND	2.07	1.35	1.06	170-015-172L030
25	Male	7725MER-ND	2.13	1.38	1.09	170-025-172L030
	Female	7725FER-ND	2.20	1.43	1.12	170-025-272L030
37	Male	7737MER-ND	2.90	1.97	1.55	170-037-172L030
	Female	7737FER-ND	2.90	1.97	1.55	170-037-272L030
50	Male	7750MER-ND	5.60	4.10	3.35	170-050-172L030
	Female	7750FER-ND	5.60	4.10	3.35	170-050-272L030

† Cut Tape ‡ Tape and Reel
Δ Pins and Sockets are selectively gold plated

Description	Digi-Key Part No.	Price Each	NorComp Part No.
Tools			
Insertion/Removal Tool	T1010-ND	3.03	170-901-170-000
Hand Crimp Tool For Screw Machined Contacts	T1000M-ND	479.33	170-702-170-000
Hand Crimping Tool For Stamped Contacts	T1000S-ND	211.47	170-701-170-000

D-Sub Connectors

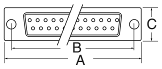

Features: • Available in 5 industry sizes/positions • Non-removable contacts • Tin or Yellow Chromate shells available • Tin shells have indents to provide grounding and additional retention • Screw machine contacts offer high reliability **Materials:** • **Shell:** Steel, zinc plated with yellow chromate, bright tin over nickel • **Shell-RoHS Compliant:** Steel, nickel plated • **Insulator:** Glass-filled thermoplastic, UL rated 94V-O • **Contacts:** Brass male pins; Phosphor bronze female pins • **Plating:** Gold flash on entire contact

Conn. Size	Dimension (Inch)		
	A	B	C
9	1.213	0.984	0.496
15	1.541	1.312	0.496
25	2.087	1.852	0.496
37	2.728	2.500	0.496
50	2.638	2.406	0.602

Original D-Subminiature

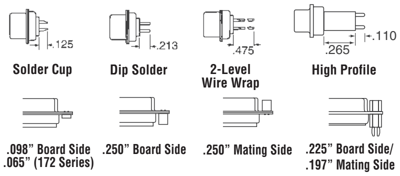

Solder Cup · Dip Solder · 2-Level Wire Wrap · High Profile

.098" Board Side .065" (172 Series) · .250" Board Side · .250" Mating Side · .225" Board Side/ .197" Mating Side

Clinch Nut Hardware

Clinch Nuts: Brass, clear zinc plating with 4-40 threads

Hole Patterns

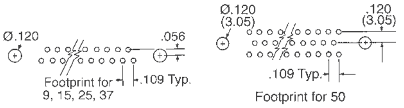

Footprint for 9, 15, 25, 37

Footprint for 50

Series 171 – Stamped Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Solder Cup						
NEW! Tin Shell — RoHS Compliant NEW!						
9	Male	209MER-ND	1.02	.64	.47	171-009-102L001
	Female	209FER-ND	1.06	.69	.50	171-009-202L001
15	Male	215MER-ND	1.36	.87	.65	171-015-102L001
	Female	215FER-ND	1.63	1.02	.77	171-015-202L001
25	Male	225MER-ND	1.49	.97	.71	171-025-102L001
	Female	225FER-ND	1.49	.97	.71	171-025-202L001
37	Male	237MER-ND	2.48	1.68	1.30	171-037-102L001
	Female	237FER-ND	2.79	1.89	1.53	171-037-202L001
50	Male	250MER-ND	4.26	2.97	2.44	171-050-102L001
	Female	250FER-ND	4.62	3.22	2.65	171-050-202L001
Nickel Shell — RoHS Compliant						
9	Male	209ME-ND	.70	.61	.42	171-009-103L001
	Female	209FE-ND	.77	.67	.46	171-009-203L001
15	Male	215ME-ND	1.04	.90	.62	171-015-103L001
	Female	215FE-ND	1.29	1.11	.76	171-015-203L001
25	Male	225ME-ND	1.17	1.01	.69	171-025-103L001
	Female	225FE-ND	1.37	1.18	.81	171-025-203L001
37	Male	237ME-ND	2.21	1.91	1.30	171-037-103L001
	Female	237FE-ND	2.61	2.25	1.53	171-037-203L001
50	Male	250ME-ND	4.41	3.81	2.59	171-050-103L001
	Female	250FE-ND	4.79	4.13	2.81	171-050-203L001
Solder Cup with .098" Clinch Nuts, Board Side						
NEW! Tin Shell — RoHS Compliant NEW!						
9	Male	1209MER-ND	1.91	1.27	.98	171-009-102L011
	Female	1209FER-ND	1.98	1.32	1.01	171-009-202L011
15	Male	1215MER-ND	2.23	1.49	1.18	171-015-102L011
	Female	1215FER-ND	2.48	1.68	1.30	171-015-202L011
25	Male	1225MER-ND	2.34	1.59	1.23	171-025-102L011
	Female	1225FER-ND	2.34	1.59	1.23	171-025-202L011
37	Male	1237MER-ND	3.24	2.16	1.77	171-037-102L011
	Female	1237FER-ND	3.53	2.44	1.99	171-037-202L011
50	Male	1250MER-ND	5.06	3.59	2.95	171-050-102L011
	Female	1250FER-ND	5.32	3.84	3.16	171-050-202L011
Nickel Shell — RoHS Compliant						
9	Male	1209ME-ND	1.63	1.41	.96	171-009-103L011
	Female	1209FE-ND	1.69	1.46	1.00	171-009-203L011
15	Male	1215ME-ND	1.96	1.70	1.16	171-015-103L011
	Female	1215FE-ND	2.21	1.91	1.30	171-015-203L011
25	Male	1225ME-ND	2.09	1.80	1.23	171-025-103L011
	Female	1225FE-ND	2.29	1.98	1.35	171-025-203L011
37	Male	1237ME-ND	3.13	2.70	1.84	171-037-103L011
	Female	1237FE-ND	3.53	3.05	2.07	171-037-203L011
50	Male	1250ME-ND	5.33	4.60	3.13	171-050-103L011
	Female	1250FE-ND	5.71	4.93	3.35	171-050-203L011
Solder Cup with .250" Clinch Nuts, Board Side						
Tin Shell						
37	Female	2237F-ND	3.48	3.00	2.04	171-037-202-021
50	Male	2250M-ND	5.42	4.68	3.18	171-050-102-021
	Female	2250F-ND	5.83	5.03	3.42	171-050-202-021
NEW! Tin Shell — RoHS Compliant NEW!						
9	Male	2209MER-ND	1.91	1.27	.98	171-009-102L021
	Female	2209FER-ND	1.98	1.32	1.01	171-009-202L021
15	Male	2215MER-ND	2.23	1.49	1.18	171-015-102L021
	Female	2215FER-ND	2.48	1.68	1.30	171-015-202L021
25	Male	2225MER-ND	2.34	1.59	1.23	171-025-102L021
	Female	2225FER-ND	2.34	1.59	1.23	171-025-202L021
37	Male	2237MER-ND	3.24	2.16	1.77	171-037-102L021
	Female	2237FER-ND	3.53	2.44	1.99	171-037-202L021
50	Male	2250MER-ND	5.06	3.59	2.95	171-050-102L021
	Female	2250FER-ND	5.32	3.84	3.16	171-050-202L021
Nickel Shell — RoHS Compliant						
9	Male	2209ME-ND	1.63	1.41	.96	171-009-103L021
	Female	2209FE-ND	1.69	1.46	1.00	171-009-203L021
15	Male	2215ME-ND	1.96	1.70	1.16	171-015-103L021
	Female	2215FE-ND	2.21	1.91	1.30	171-015-203L021
25	Male	2225ME-ND	2.09	1.80	1.23	171-025-103L021
	Female	2225FE-ND	2.29	1.98	1.35	171-025-203L021
37	Male	2237ME-ND	3.13	2.70	1.84	171-037-103L021
	Female	2237FE-ND	3.53	3.05	2.07	171-037-203L021
50	Male	2250ME-ND	5.33	4.60	3.13	171-050-103L021
	Female	2250FE-ND	5.71	4.93	3.35	171-050-203L021
Solder Cup with .250" Clinch Nuts, Mating Side						
Tin Shell						
50	Male	3250M-ND	5.42	4.68	3.18	171-050-102-031
	Female	3250F-ND	5.83	5.03	3.42	171-050-202-031
NEW! Tin Shell — RoHS Compliant NEW!						
9	Male	3209MER-ND	1.91	1.27	.98	171-009-102L031
	Female	3209FER-ND	1.98	1.32	1.01	171-009-202L031
15	Male	3215MER-ND	2.23	1.49	1.18	171-015-102L031
	Female	3215FER-ND	2.48	1.68	1.30	171-015-202L031
25	Male	3225MER-ND	2.34	1.59	1.23	171-025-102L031
	Female	3225FER-ND	2.34	1.59	1.23	171-025-202L031
37	Male	3237MER-ND	3.24	2.16	1.77	171-037-102L031
	Female	3237FER-ND	3.53	2.44	1.99	171-037-202L031
50	Male	3250MER-ND	5.06	3.59	2.95	171-050-102L031
	Female	3250FER-ND	5.32	3.84	3.16	171-050-202L031
Nickel Shell — RoHS Compliant						
9	Male	3209ME-ND	1.63	1.41	.96	171-009-103L031
	Female	3209FE-ND	1.69	1.46	1.00	171-009-203L031
15	Male	3215ME-ND	1.96	1.70	1.16	171-015-103L031
	Female	3215FE-ND	2.21	1.91	1.30	171-015-203L031
25	Male	3225ME-ND	2.09	1.80	1.23	171-025-103L031
	Female	3225FE-ND	2.29	1.98	1.35	171-025-203L031
37	Male	3237ME-ND	3.13	2.70	1.84	171-037-103L031
	Female	3237FE-ND	3.53	3.05	2.07	171-037-203L031
50	Male	3250ME-ND	5.33	4.60	3.13	171-050-103L031
	Female	3250FE-ND	5.71	4.93	3.35	171-050-203L031
Dip Solder						
Nickel Shell — RoHS Compliant						
9	Male	4209ME-ND	1.19	1.03	.71	171-009-113R001
	Female	4209FE-ND	1.35	1.17	.80	171-009-213R001
15	Male	4215ME-ND	1.84	1.59	1.08	171-015-113R001
	Female	4215FE-ND	1.49	1.29	.88	171-015-213R001
25	Male	4225ME-ND	2.55	2.20	1.50	171-025-113R001
	Female	4225FE-ND	1.89	1.64	1.12	171-025-213R001
37	Male	4237ME-ND	4.56	3.94	2.68	171-037-113R001
	Female	4237FE-ND	3.08	2.66	1.81	171-037-213R001
50	Male	4250ME-ND	5.07	4.38	2.98	171-050-113R001
	Female	4250FE-ND	4.90	4.23	2.88	171-050-213R001
Dip Solder with .098" Clinch Nuts, Board Side						
Tin Shell						
15	Female	5215F-ND	2.26	1.95	1.33	171-015-212-011
37	Male	5237M-ND	5.19	4.48	3.05	171-037-112-011
	Female	5237F-ND	3.74	3.23	2.20	171-037-212-011
50	Male	5250M-ND	5.42	4.68	3.18	171-050-112-011
	Female	5250F-ND	5.25	4.53	3.08	171-050-212-011
Nickel Shell — RoHS Compliant						
9	Male	5209ME-ND	2.12	1.83	1.25	171-009-113R011
	Female	5209FE-ND	2.27	1.96	1.34	171-009-213R011
15	Male	5215ME-ND	2.76	2.38	1.62	171-015-113R011
	Female	5215FE-ND	2.41	2.08	1.42	171-015-213R011
25	Male	5225ME-ND	3.47	3.00	2.04	171-025-113R011
	Female	5225FE-ND	2.82	2.43	1.66	171-025-213R011
37	Male	5237ME-ND	5.49	4.73	3.22	171-037-113R011
	Female	5237FE-ND	4.00	3.45	2.35	171-037-213R011
50	Male	5250ME-ND	5.99	5.17	3.52	171-050-113R011
	Female	5250FE-ND	5.83	5.03	3.42	171-050-213R011
Dip Solder with .250" Clinch Nuts, Board Side						
Tin Shell						
15	Male	6215M-ND	2.67	2.30	1.57	171-015-112-021
50	Male	6250M-ND	5.42	4.68	3.18	171-050-112-021
Nickel Shell — RoHS Compliant						
9	Male	6209ME-ND	2.12	1.83	1.25	171-009-113R021
15	Male	6215ME-ND	2.76	2.38	1.62	171-015-113R021
	Female	6215FE-ND	2.41	2.08	1.42	171-015-213R021
25	Male	6225ME-ND	3.47	3.00	2.04	171-025-113R021
	Female	6225FE-ND	2.82	2.43	1.66	171-025-213R021
37	Male	6237ME-ND	5.49	4.73	3.22	171-037-113R021
	Female	6237FE-ND	4.00	3.45	2.35	171-037-213R021
50	Male	6250ME-ND	5.99	5.17	3.52	171-050-113R021
	Female	6250FE-ND	5.83	5.03	3.42	171-050-213R021
Dip Solder with .250" Clinch Nuts, Mating Side						
Tin Shell						
25	Male	7225M-ND	3.39	2.93	1.99	171-025-112-031
37	Female	7237F-ND	3.74	3.23	2.20	171-037-212-031
50	Male	7250M-ND	5.42	4.68	3.18	171-050-112-031
	Female	7250F-ND	5.25	4.53	3.08	171-050-212-031
Nickel Shell — RoHS Compliant						
9	Male	7209ME-ND	2.12	1.83	1.25	171-009-113R031
	Female	7209FE-ND	2.27	1.96	1.34	171-009-213R031
15	Male	7215ME-ND	2.76	2.38	1.62	171-015-113R031
	Female	7215FE-ND	2.41	2.08	1.42	171-015-213R031
25	Male	7225ME-ND	3.47	3.00	2.04	171-025-113R031
	Female	7225FE-ND	2.82	2.43	1.66	171-025-213R031
37	Male	7237ME-ND	5.49	4.73	3.22	171-037-113R031
	Female	7237FE-ND	4.00	3.45	2.35	171-037-213R031
50	Male	7250ME-ND	5.99	5.17	3.52	171-050-113R031
	Female	7250FE-ND	5.83	5.03	3.42	171-050-213R031
Dip Solder with .225 Spacer/Board Lock						
Tin Shell						
50	Female	9250F-ND	5.89	5.08	3.46	171-050-212-911
Nickel Shell — RoHS Compliant						
9	Male	9209ME-ND	2.73	2.36	1.61	171-009-113R911
	Female	9209FE-ND	2.89	2.49	1.70	171-009-213R911
15	Male	9215ME-ND	3.38	2.91	1.98	171-015-113R911
	Female	9215FE-ND	3.02	2.61	1.78	171-015-213R911
25	Male	9225ME-ND	4.09	3.53	2.40	171-025-113R911
	Female	9225FE-ND	3.57	3.08	2.10	171-025-213R911
37	Male	9237ME-ND	6.10	5.26	3.58	171-037-113R911
	Female	9237FE-ND	4.61	3.98	2.71	171-037-213R911
50	Male	9250ME-ND	6.61	5.70	3.88	171-050-113R911
	Female	9250FE-ND	6.44	5.56	3.78	171-050-213R911

Series 172 – Machined Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Solder Cup						
Tin Shell — RoHS Compliant						
9	Male	1109MA-ND	2.58	2.23	1.52	172-009-102R001
	Female	1109FA-ND	2.94	2.54	1.73	172-009-202R001
15	Male	1115MA-ND	3.26	2.82	1.92	172-015-102R001
	Female	1115FA-ND	3.94	3.40	2.31	172-015-202R001
25	Male	1125MA-ND	4.23	3.65	2.49	172-025-102R001
	Female	1125FA-ND	5.81	5.01	3.41	172-025-202R001
37	Male	1137MA-ND	5.68	4.90	3.34	172-037-102R001
	Female	1137FA-ND	7.88	6.79	4.62	172-037-202R001
50	Male	1150MA-ND	10.17	8.77	5.97	172-050-102R001
	Female	1150FA-ND	15.33	13.22	8.99	172-050-202R001
Solder Cup with .065" Clinch Nuts, Board Side						
Tin Shell — RoHS Compliant						
9	Male	2109MA-ND	3.78	3.26	2.22	172-009-102R011
	Female	2109FA-ND	4.13	3.57	2.43	172-009-202R011
15	Male	2115MA-ND	4.45	3.84	2.62	172-015-102R011
	Female	2115FA-ND	5.10	4.40	3.00	172-015-202R011
25	Male	2125MA-ND	5.13	4.43	3.01	172-025-102R011
	Female	2125FA-ND	7.01	6.04	4.11	172-025-202R011
37	Male	2137MA-ND	6.84	5.90	4.02	172-037-102R011
	Female	2137FA-ND	9.07	7.82	5.32	172-037-202R011
50	Male	2150MA-ND	11.33	9.77	6.65	172-050-102R011
	Female	2150FA-ND	16.53	14.25	9.69	172-050-102R011
Tin Shell — RoHS Compliant						
9	Male	3109MA-ND	3.78	3.26	2.22	172-009-102R021
	Female	3109FA-ND	4.13	3.57	2.43	172-009-202R021
15	Male	3115MA-ND	4.45	3.84	2.62	172-015-102R021
	Female	3115FA-ND	5.10	4.40	3.00	172-015-202R021
25	Male	3125MA-ND	5.13	4.43	3.01	172-025-102R021
	Female	3125FA-ND	7.01	6.04	4.11	172-025-202R021
37	Male	3137MA-ND	6.84	5.90	4.02	172-037-102R021
	Female	3137FA-ND	9.07	7.82	5.32	172-037-202R021
50	Male	3150MA-ND	11.33	9.77	6.65	172-050-102R021
	Female	3150FA-ND	16.53	14.25	9.69	172-050-202R021
Yellow Chromate						
37	Male	6137M-ND	6.55	5.65	3.85	172-037-101-021
Solder Cup with .250" Clinch Nuts, Mating Side						
Tin Shell — RoHS Compliant						
9	Male	4109MA-ND	3.78	3.26	2.22	172-009-102R031
	Female	4109FA-ND	4.13	3.57	2.43	172-009-202R031

(Continued)

NORCOMP
A DIVISION OF EDAC (AMERICA) LIMITED

D-Sub Connectors

Series 172 – Machined Contacts *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
15	Male	4115MA-ND	4.45	3.84	2.62	172-015-102R031
	Female	4115FA-ND	5.10	4.40	3.00	172-015-202R031
25	Male	4125MA-ND	5.13	4.43	3.01	172-025-102R031
	Female	4125FA-ND	7.01	6.04	4.11	172-025-202R031
37	Male	4137MA-ND	6.84	5.90	4.02	172-037-102R031
	Female	4137FA-ND	9.07	7.82	5.32	172-037-202R031
50	Male	4150MA-ND	11.33	9.77	6.65	172-050-102R031
	Female	4150FA-ND	16.53	14.25	9.69	172-050-202R031
Yellow Chromate						
50	Female	7150F-ND	14.85	12.80	8.71	172-050-201-031
Dip Solder						
Tin Shell — RoHS Compliant						
9	Male	1509MNA-ND	2.81	2.42	1.65	172-009-112R001
	Female	1509FNA-ND	3.48	3.01	2.05	172-009-212R001
15	Male	1515MNA-ND	3.75	3.24	2.20	172-015-112R001
	Female	1515FNA-ND	4.87	4.20	2.86	172-015-212R001
25	Male	1525MNA-ND	4.67	4.03	2.74	172-025-112R001
	Female	1525FNA-ND	7.27	6.27	4.27	172-025-212R001
37	Male	1537MNA-ND	6.39	5.51	3.75	172-037-112R001
	Female	1537FNA-ND	10.25	8.84	6.01	172-037-212R001
50	Male	1550MNA-ND	10.65	9.19	6.25	172-050-112-001
	Female	1550FNA-ND	13.59	11.72	7.97	172-050-212-001
Dip Solder with .065" Clinch Nuts, Board Side						
Tin Shell — RoHS Compliant						
9	Male	2509MA-ND	4.03	3.47	2.36	172-009-112R011
	Female	2509FA-ND	4.73	4.08	2.78	172-009-212R011
15	Male	2515MA-ND	4.97	4.29	2.92	172-015-112R011
	Female	2515FA-ND	6.09	5.25	3.57	172-015-212R011
25	Male	2525MA-ND	5.88	5.08	3.45	172-025-112R011
	Female	2525FA-ND	8.49	7.32	4.98	172-025-212R011
37	Male	2537MA-ND	7.64	6.59	4.48	172-037-112R011
	Female	2537FA-ND	11.46	9.89	6.73	172-037-212R011
50	Male	2550MA-ND	11.87	10.24	6.96	172-050-112R011
	Female	2550FA-ND	14.81	12.77	8.69	172-050-212R011
Yellow Chromate						
15	Female	5515F-ND	5.19	4.48	3.05	172-015-211-011
Dip Solder with .250" Clinch Nuts, Board Side						
Tin Shell						
50	Male	3550M-ND	10.18	8.78	5.97	172-050-112-021
Tin Shell — RoHS Compliant						
9	Male	3509MA-ND	4.03	3.47	2.36	172-009-112R021
	Female	3509FA-ND	4.73	4.08	2.78	172-009-212R021
15	Male	3515MA-ND	4.97	4.29	2.92	172-015-112R021
	Female	3515FA-ND	6.09	5.25	3.57	172-015-212R021
25	Male	3525MA-ND	5.88	5.08	3.45	172-025-112R021
	Female	3525FA-ND	8.49	7.32	4.98	172-025-212R021
37	Male	3537MA-ND	7.64	6.59	4.48	172-037-112R021
	Female	3537FA-ND	11.46	9.89	6.73	172-037-212R021
50	Male	3550MA-ND	11.87	10.24	6.96	172-050-112R021
	Female	3550FA-ND	14.81	12.77	8.69	172-050-212R021
Dip Solder with .250" Clinch Nuts, Mating Side						
Tin Shell						
9	Male	4515M-ND	4.26	3.68	2.50	172-015-112-031
25	Male	4525M-ND	5.05	4.35	2.96	172-025-112-031
Tin Shell — RoHS Compliant						
9	Male	4509MA-ND	4.03	3.47	2.36	172-009-112R031
	Female	4509FA-ND	4.73	4.08	2.78	172-009-212R031
15	Male	4515MA-ND	4.97	4.29	2.92	172-015-112R031
	Female	4515FA-ND	6.09	5.25	3.57	172-015-212R031
25	Male	4525MA-ND	5.88	5.08	3.45	172-025-112R031
	Female	4525FA-ND	8.49	7.32	4.98	172-025-212R031
37	Male	4537MA-ND	7.64	6.59	4.48	172-037-112R031
	Female	4537FA-ND	11.46	9.89	6.73	172-037-212R031
50	Male	4550MA-ND	11.87	10.24	6.96	172-050-112R031
	Female	4550FA-ND	14.81	12.77	8.69	172-050-212R031
Yellow Chromate						
50	Male	7550M-ND	10.18	8.78	5.97	172-050-111-031
	Female	7550F-ND	12.70	10.95	7.45	172-050-211-031
Dip Solder with .225" Board Side, .197" Mating Side Clinch Nuts						
Tin Shell — RoHS Compliant						
9	Male	2909MA-ND	4.83	4.17	2.84	172-009-112R911
	Female	2909FA-ND	5.16	3.73	3.06	172-009-212R911
15	Male	2915MA-ND	5.82	5.02	3.42	172-015-112R911
	Female	2915FA-ND	6.93	5.98	4.07	172-015-212R911
25	Male	2925MA-ND	6.70	5.78	3.93	172-025-112R911
	Female	2925FA-ND	9.30	8.02	5.46	172-025-212R911
37	Male	2937MA-ND	8.45	7.29	4.96	172-037-112R911
	Female	2937FA-ND	12.28	10.59	7.20	172-037-212R911
50	Male	2950MA-ND	12.71	10.96	7.46	172-050-112R911
	Female	2950FA-ND	14.74	12.71	8.64	172-050-212R911
Yellow Chromate						
15	Male	1915M-ND	4.50	3.88	2.64	172-015-111-911
50	Male	1950M-ND	10.90	9.40	6.40	172-050-111-911
Wire Wrap						
Tin Shell						
9	Male	1609MN-ND	3.07	2.65	1.81	172-009-142-001
25	Female	1625FN-ND	10.96	9.45	6.43	172-025-242-001
Tin Shell — RoHS Compliant						
9	Male	1609MNA-ND	3.28	2.83	1.93	172-009-142R001
	Female	1609FNA-ND	3.96	3.41	2.32	172-009-242R001
15	Male	1615MNA-ND	5.01	4.32	2.94	172-015-142R001
	Female	1615FNA-ND	5.87	5.06	3.45	172-015-242R001
25	Male	1625MNA-ND	7.24	6.24	4.25	172-025-142R001
	Female	1625FNA-ND	11.60	10.00	6.80	172-025-242R001
37	Male	1637MNA-ND	10.35	8.92	6.07	172-037-142R001
	Female	1637FNA-ND	12.95	11.17	7.60	172-037-242R001
50	Male	1650MNA-ND	13.53	11.66	7.93	172-050-142R001
	Female	1650FNA-ND	17.65	15.22	10.35	172-050-242R001
Wire Wrap with .065" Clinch Nuts, Board Side						
Tin Shell						
15	Male	2615M-ND	5.60	4.83	3.29	172-015-142-011
25	Female	2625F-ND	11.83	10.20	6.94	172-025-242-011
37	Male	2637M-ND	10.61	9.15	6.23	172-037-142-011
	Female	2637F-ND	13.08	11.28	7.67	172-037-242-011
50	Male	2650M-ND	13.63	11.75	7.99	172-050-142-011
	Female	2650F-ND	17.52	15.10	10.27	172-050-242-011
Tin Shell — RoHS Compliant						
9	Male	2609MA-ND	4.29	3.71	2.52	172-009-142R011
	Female	2609FA-ND	4.69	4.05	2.75	172-009-242R011
15	Male	2615MA-ND	6.02	5.19	3.53	172-015-142R011
	Female	2615FA-ND	6.88	5.94	4.04	172-015-242R011
25	Male	2625MA-ND	8.25	7.12	4.84	172-025-142R011
	Female	2625FA-ND	12.61	10.88	7.40	172-025-242R011
37	Male	2637MA-ND	11.36	9.80	6.67	172-037-142R011
	Female	2637FA-ND	13.97	12.04	8.19	172-037-242R011
50	Male	2650MA-ND	14.54	12.54	8.53	172-050-142R011
	Female	2650FA-ND	18.66	16.09	10.95	172-050-242R011
Yellow Chromate						
37	Male	5637M-ND	10.38	8.95	6.09	172-037-141-011
	Female	5637F-ND	13.08	11.28	7.67	172-037-241-011
50	Male	5650M-ND	13.49	11.63	7.91	172-050-141-011
Wire Wrap with .250" Clinch Nuts, Board Side						
Tin Shell						
15	Male	3615M-ND	5.60	4.83	3.29	172-015-142-021
25	Female	3625F-ND	11.83	10.20	6.94	172-025-242-021
37	Male	3637M-ND	10.61	9.15	6.23	172-037-142-021
	Female	3637F-ND	13.08	11.28	7.67	172-037-242-021
50	Male	3650M-ND	13.63	11.75	7.99	172-050-142-021
Tin Shell — RoHS Compliant						
9	Male	3609MA-ND	4.29	3.71	2.52	172-009-142R021
	Female	3609FA-ND	4.97	4.29	2.92	172-009-242R021
15	Male	3615MA-ND	6.02	5.19	3.53	172-015-142R021
	Female	3615FA-ND	6.88	5.94	4.04	172-015-242R021
25	Male	3625MA-ND	8.25	7.12	4.84	172-025-142R021
	Female	3625FA-ND	12.61	10.88	7.40	172-025-242R021
37	Male	3637MA-ND	11.36	9.80	6.67	172-037-142R021
	Female	3637FA-ND	13.97	12.04	8.19	172-037-242R021
50	Male	3650MA-ND	14.54	12.54	8.53	172-050-142R021
	Female	3650FA-ND	18.66	16.09	10.95	172-050-242R021
Yellow Chromate						
50	Male	6650M-ND	13.49	11.63	7.91	172-050-141-021
	Female	6650F-ND	17.08	14.73	10.02	172-050-241-021
Wire Wrap with .250" Clinch Nuts, Mating Side						
Tin Shell						
15	Male	4615M-ND	5.60	4.83	3.29	172-015-142-031
	Female	4615F-ND	6.41	5.53	3.76	172-015-242-031
25	Male	4625M-ND	7.69	6.63	4.51	172-025-142-031
37	Male	4637M-ND	10.61	9.15	6.23	172-037-142-031
	Female	4637F-ND	13.08	11.28	7.67	172-037-242-031
50	Male	4650M-ND	13.63	11.75	7.99	172-050-142-031
	Female	4650F-ND	17.52	15.10	10.27	172-050-242-031
Tin Shell — RoHS Compliant						
9	Male	4609MA-ND	4.29	3.71	2.52	172-009-142R031
	Female	4609FA-ND	4.97	4.29	2.92	172-009-242R031
15	Male	4615MA-ND	6.02	5.19	3.53	172-015-142R031
	Female	4615FA-ND	6.88	5.94	4.04	172-015-242R031
25	Male	4625MA-ND	8.25	7.12	4.84	172-025-142R031
	Female	4625FA-ND	12.61	10.88	7.40	172-025-242R031
37	Male	4637MA-ND	11.36	9.80	6.67	172-037-142R031
	Female	4637FA-ND	13.97	12.04	8.19	172-037-242R031
50	Male	4650MA-ND	14.54	12.54	8.53	172-050-142R031
	Female	4650FA-ND	18.66	16.09	10.95	172-050-242R031
Yellow Chromate						
15	Male	7615M-ND	5.86	5.05	3.44	172-015-141-031
	Female	7615F-ND	6.35	5.48	3.73	172-015-241-031
25	Male	7625M-ND	7.48	6.45	4.39	172-025-141-031
	Female	7625F-ND	9.22	7.95	5.41	172-025-241-031
37	Female	7637F-ND	13.08	11.28	7.67	172-037-241-031
Wire Wrap with .225" Board Side and .197" Mating Side Clinch Nuts						
Tin Shell						
9	Male	4909M-ND	4.26	3.68	2.50	172-009-142-911
	Female	4909F-ND	4.84	4.18	2.84	172-009-242-911
15	Male	4915M-ND	5.74	4.95	3.37	172-015-142-911
	Female	4915F-ND	6.50	5.60	3.81	172-015-242-911
25	Male	4925M-ND	7.66	6.60	4.49	172-025-142-911
	Female	4925F-ND	11.43	9.85	6.70	172-025-242-911
37	Male	4937M-ND	10.32	8.90	6.06	172-037-142-911
	Female	4937F-ND	12.56	10.83	7.37	172-037-242-911
50	Male	4950M-ND	13.05	11.25	7.65	172-050-142-911
	Female	4950F-ND	16.59	14.30	9.73	172-050-242-911
Tin Shell — RoHS Compliant						
9	Male	4909MA-ND	4.97	4.29	2.92	172-009-142R911
	Female	4909FA-ND	5.65	4.87	3.31	172-009-242R911
15	Male	4915MA-ND	6.70	5.78	3.93	172-015-142R911
	Female	4915FA-ND	7.57	6.53	4.45	172-015-242R911
25	Male	4925MA-ND	8.93	7.70	5.24	172-025-142R911
	Female	4925FA-ND	13.32	11.49	7.81	172-025-242R911
37	Male	4937MA-ND	12.04	10.38	7.06	172-037-142R911
	Female	4937FA-ND	14.64	12.63	8.59	172-037-242R911
50	Male	4950MA-ND	15.22	13.12	8.92	172-050-142R911
	Female	4950FA-ND	19.34	16.68	11.34	172-050-242R911
Yellow Chromate						
9	Male	3909M-ND	4.55	3.93	2.67	172-009-141-911
15	Male	3915M-ND	6.18	5.33	3.63	172-015-141-911
25	Male	3925M-ND	8.27	7.13	4.85	172-025-141-911
37	Male	3937M-ND	12.18	10.50	7.14	172-037-141-911
50	Male	3950MN-ND	14.21	12.25	8.33	172-050-141-911

Series 172E – Machined Contacts Economy

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Solder Cup						
Tin Shell						
9	Male	1109ME-ND	2.12	1.83	1.25	172-E09-102-001
37	Female	1137FE-ND	6.44	5.55	3.78	172-E37-202-001
50	Male	1150ME-ND	8.29	7.15	4.87	172-E50-102-001
	Female	1150FE-ND	12.53	10.80	7.35	172-E50-202-001
NEW! Tin Shell — RoHS Compliant NEW!						
9	Male	1109MER-ND	2.46	1.67	1.29	172-E09-102R001
	Female	1109FER-ND	2.60	1.71	1.39	172-E09-202R001
15	Male	1115MER-ND	3.03	2.06	1.62	172-E15-102R001
	Female	1115FER-ND	3.07	2.05	1.67	172-E15-202R001
25	Male	1125MER-ND	3.44	2.30	1.87	172-E25-102R001
	Female	1125FER-ND	5.02	3.56	2.92	172-E25-202R001
37	Male	1137MER-ND	4.90	3.48	2.85	172-E37-102R001
	Female	1137FER-ND	4.90	3.48	2.85	172-E37-202R001
50	Male	1150MER-ND	7.96	5.73	4.78	172-E50-102R001
	Female	1150FER-ND	11.06	8.42	7.22	172-E50-202R001
Nickel Shell — RoHS Compliant						
9	Male	1109MEA-ND	2.36	2.04	1.39	172-E09-103R001
	Female	1109FEA-ND	2.68	2.31	1.58	172-E09-203R001
15	Male	1115MEA-ND	2.97	2.56	1.75	172-E15-103R001
	Female	1115FEA-ND	3.58	3.09	2.11	172-E15-203R001
25	Male	1125MEA-ND	3.84	3.32	2.26	172-E25-103R001
	Female	1125FEA-ND	5.29	4.57	3.11	172-E25-203R001
37	Male	1137MEA-ND	5.16	4.46	3.03	172-E37-103R001
	Female	1137FEA-ND	7.17	6.18	4.21	172-E37-203R001
50	Male	1150MEA-ND	9.23	7.96	5.42	172-E50-103R001
	Female	1150FEA-ND	13.94	12.02	8.18	172-E50-203R001
Yellow Chromate						
15	Female	115FE-ND	3.39	2.93	1.99	172-E15-201-001
Yellow Chromate — RoHS Compliant						
9	Female	109MEA-ND	2.20	1.90	1.29	172-E09-101R001
	Female	109FEA-ND	2.52	2.17	1.48	172-E09-201R001
15	Male	115MEA-ND	2.84	2.45	1.67	172-E15-101R001
	Female	115FEA-ND	3.78	3.26	2.22	172-E15-201R001
37	Female	137FEA-ND	7.72	6.66	4.53	172-E37-201R001
50	Male	150MEA-ND	9.23	7.96	5.42	172-E50-101R001
	Female	150FEA-ND	13.94	12.02	8.18	172-E50-201R001
Solder Cup with .065" Clinch Nuts, Board Side						
Tin Shell						
15	Male	2115ME-ND	3.63	3.13	2.13	172-E15-102-011
	Female	2115FE-ND	4.18	3.60	2.45	172-E15-202-011

(Continued)

NorComp
A DIVISION OF EDAC (AMERICA) LIMITED

D-Sub Connectors

Series 172E – Machined Contacts Economy *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
25	Male	2125ME-ND	4.41	3.80	2.59	172-E25-102-011
	Female	2125FE-ND	5.71	4.93	3.35	172-E25-202-011
37	Male	2137ME-ND	5.60	4.83	3.29	172-E37-102-011
	Female	2137FE-ND	7.40	6.38	4.34	172-E37-202-011
50	Male	2150ME-ND	9.25	7.98	5.43	172-E50-102-011
	Female	2150FE-ND	13.49	11.63	7.91	172-E50-202-011
Nickel Shell — RoHS Compliant						
9	Male	2109MEA-ND	3.42	2.95	2.01	172-E09-103R011
	Female	2109FEA-ND	3.74	3.23	2.20	172-E09-203R011
15	Male	2115MEA-ND	4.04	3.48	2.37	172-E15-103R011
	Female	2115FEA-ND	4.65	4.01	2.73	172-E15-203R011
25	Male	2125MEA-ND	4.91	4.23	2.88	172-E25-103R011
	Female	2125FEA-ND	6.36	5.49	3.73	172-E25-203R011
37	Male	2137MEA-ND	6.23	5.38	3.66	172-E37-103R011
	Female	2137FEA-ND	8.23	7.10	4.83	172-E37-203R011
50	Male	2150MEA-ND	10.30	8.88	6.04	172-E50-103R011
	Female	2150FEA-ND	15.01	12.94	8.80	172-E50-203R011
Yellow Chromate						
37	Male	5137ME-ND	5.95	5.13	3.49	172-E37-101-011
	Female	5137FE-ND	7.89	6.80	4.63	172-E37-201-011
50	Male	5150ME-ND	9.25	7.98	5.43	172-E50-101-011
	Female	5150FE-ND	13.49	11.63	7.91	172-E50-201-011
Yellow Chromate — RoHS Compliant						
9	Male	5109MEA-ND	3.26	2.82	1.92	172-E09-101R011
	Female	5109FEA-ND	3.58	3.09	2.11	172-E09-201R011
15	Male	5115MEA-ND	3.91	3.37	2.29	172-E15-101R011
25	Male	5125MEA-ND	4.39	3.79	2.58	172-E25-101R011
	Female	5125FEA-ND	5.62	4.85	3.30	172-E25-201R011
37	Male	5137MEA-ND	6.62	5.71	3.88	172-E37-101R011
	Female	5137FEA-ND	8.78	7.57	5.15	172-E37-201R011
50	Male	5150MEA-ND	10.30	8.88	6.04	172-E50-101R011
	Female	5150FEA-ND	15.01	12.94	8.80	172-E50-201R011
NEW! Solder Cup with .098" Clinch Nuts, Board Side NEW!						
Tin Shell — RoHS Compliant						
9	Male	2109MER-ND	3.38	2.25	1.84	172-E09-102R011
	Female	2109FER-ND	3.54	2.36	1.93	172-E09-202R011
15	Male	2115MER-ND	3.91	2.70	2.20	172-E15-102R011
	Female	2115FER-ND	4.04	2.79	2.27	172-E15-202R011
25	Male	2125MER-ND	4.24	2.96	2.43	172-E25-102R011
	Female	2125FER-ND	5.70	4.17	3.40	172-E25-202R011
37	Male	2137MER-ND	5.59	4.09	3.34	172-E37-102R011
	Female	2137FER-ND	5.59	4.09	3.34	172-E37-202R011
50	Male	2150MER-ND	8.52	6.40	5.33	172-E50-102R011
	Female	2150FER-ND	11.65	8.96	7.51	172-E50-202R011
NEW! Solder Cup with .236" Clinch Nuts, Board Side NEW!						
Tin Shell — RoHS Compliant						
9	Male	3109MER-ND	3.38	2.25	1.84	172-E09-102R021
	Female	3109FER-ND	3.54	2.36	1.93	172-E09-202R021
15	Male	3115MER-ND	3.91	2.70	2.20	172-E15-102R021
	Female	3115FER-ND	4.04	2.79	2.27	172-E15-202R021
25	Male	3125MER-ND	4.24	2.96	2.43	172-E25-102R021
	Female	3125FER-ND	5.70	4.17	3.40	172-E25-202R021
37	Male	3137MER-ND	5.59	4.09	3.34	172-E37-102R021
	Female	3137FER-ND	5.59	4.09	3.34	172-E37-202R021
50	Male	3150MER-ND	8.52	6.40	5.33	172-E50-102R021
	Female	3150FER-ND	11.65	8.96	7.51	172-E50-202R021
Solder Cup with .250" Clinch Nuts, Board Side						
Tin Shell						
15	Male	3115ME-ND	3.63	3.13	2.13	172-E15-102-021
	Female	3115FE-ND	4.18	3.60	2.45	172-E15-202-021
25	Male	3125ME-ND	4.41	3.80	2.59	172-E25-102-021
	Female	3125FE-ND	5.71	4.93	3.35	172-E25-202-021
37	Male	3137ME-ND	5.60	4.83	3.29	172-E37-102-021
	Female	3137FE-ND	7.40	6.38	4.34	172-E37-202-021
50	Male	3150ME-ND	9.25	7.98	5.43	172-E50-102-021
	Female	3150FE-ND	13.49	11.63	7.91	172-E50-202-021
Nickel Shell — RoHS Compliant						
9	Male	3109MEA-ND	3.42	2.95	2.01	172-E09-103R021
	Female	3109FEA-ND	3.74	3.23	2.20	172-E09-203R021
15	Male	3115MEA-ND	4.04	3.48	2.37	172-E15-103R021
	Female	3115FEA-ND	4.65	4.01	2.73	172-E15-203R021
25	Male	3125MEA-ND	4.91	4.23	2.88	172-E25-103R021
	Female	3125FEA-ND	6.36	5.49	3.73	172-E25-203R021
37	Male	3137MEA-ND	6.23	5.38	3.66	172-E37-103R021
	Female	3137FEA-ND	8.23	7.10	4.83	172-E37-203R021
50	Male	3150MEA-ND	10.30	8.88	6.04	172-E50-103R021
	Female	3150FEA-ND	15.01	12.94	8.80	172-E50-203R021
Yellow Chromate						
15	Male	6115ME-ND	3.51	3.03	2.06	172-E15-101-021
37	Male	6137ME-ND	5.95	5.13	3.49	172-E37-101-021
50	Male	6150ME-ND	9.25	7.98	5.43	172-E50-101-021
	Female	6150FE-ND	13.49	11.63	7.91	172-E50-201-021
Yellow Chromate — RoHS Compliant						
9	Male	6109MEA-ND	3.26	2.82	1.92	172-E09-101R021
	Female	6109FEA-ND	3.58	3.09	2.11	172-E09-201R021
15	Male	6115MEA-ND	3.91	3.37	2.29	172-E15-101R021
	Female	6115FEA-ND	4.84	4.18	2.84	172-E15-201R021
25	Male	6125MEA-ND	4.39	3.79	2.58	172-E25-101R021
	Female	6125FEA-ND	5.62	4.85	3.30	172-E25-201R021
37	Male	6137MEA-ND	6.62	5.71	3.88	172-E37-101R021
	Female	6137FEA-ND	8.78	7.57	5.15	172-E37-201R021
50	Male	6150MEA-ND	10.30	8.88	6.04	172-E50-101R021
	Female	6150FEA-ND	15.01	12.94	8.80	172-E50-201R021
NEW! Solder Cup with .236" Clinch Nuts, Mating Side NEW!						
Tin Shell — RoHS Compliant						
9	Male	4109MER-ND	3.38	2.25	1.84	172-E09-102R031
	Female	4109FER-ND	3.54	2.36	1.93	172-E09-202R031
15	Male	4115MER-ND	3.91	2.70	2.20	172-E15-102R031
	Female	4115FER-ND	4.04	2.79	2.27	172-E15-202R031
25	Male	4125MER-ND	4.24	2.96	2.43	172-E25-102R031
	Female	4125FER-ND	5.70	4.17	3.40	172-E25-202R031
37	Male	4137MER-ND	5.59	4.09	3.34	172-E37-102R031
	Female	4137FER-ND	5.59	4.09	3.34	172-E37-202R031
50	Male	4150MER-ND	8.52	6.40	5.33	172-E50-102R031
	Female	4150FER-ND	11.65	8.96	7.51	172-E50-202R031
Solder Cup with .250" Clinch Nuts, Mating Side						
Tin Shell						
15	Male	4115ME-ND	3.63	3.13	2.13	172-E15-102-031
	Female	4115FE-ND	4.18	3.60	2.45	172-E15-202-031
25	Female	4125FE-ND	5.71	4.93	3.35	172-E25-202-031
37	Male	4137ME-ND	5.60	4.83	3.29	172-E37-102-031
	Female	4137FE-ND	7.40	6.38	4.34	172-E37-202-031
50	Male	4150ME-ND	9.25	7.98	5.43	172-E50-102-031
	Female	4150FE-ND	13.49	11.63	7.91	172-E50-202-031
Nickel Shell — RoHS Compliant						
9	Male	4109MEA-ND	3.42	2.95	2.01	172-E09-103R031
	Female	4109FEA-ND	3.74	3.23	2.20	172-E09-203R031
15	Male	4115MEA-ND	4.04	3.48	2.37	172-E15-103R031
	Female	4115FEA-ND	4.65	4.01	2.73	172-E15-203R031
25	Male	4125MEA-ND	4.91	4.23	2.88	172-E25-103R031
	Female	4125FEA-ND	6.36	5.49	3.73	172-E25-203R031
37	Male	4137MEA-ND	6.23	5.38	3.66	172-E37-103R031
	Female	4137FEA-ND	8.23	7.10	4.83	172-E37-203R031
50	Male	4150MEA-ND	10.30	8.88	6.04	172-E50-103R031
	Female	4150FEA-ND	15.01	12.94	8.80	172-E50-203R031
Yellow Chromate						
15	Male	7115ME-ND	3.51	3.03	2.06	172-E15-101-031
37	Male	7137ME-ND	5.95	5.13	3.49	172-E37-101-031
50	Male	7150ME-ND	9.25	7.98	5.43	172-E50-101-031
	Female	7150FE-ND	13.49	11.63	7.91	172-E50-201-031
Yellow Chromate — RoHS Compliant						
9	Male	7109MEA-ND	3.26	2.82	1.92	172-E09-101R031
	Female	7109FEA-ND	3.58	3.09	2.11	172-E09-201R031
15	Male	7115MEA-ND	3.91	3.37	2.29	172-E15-101R031
	Female	7115FEA-ND	4.84	4.18	2.84	172-E15-201R031
25	Male	7125MEA-ND	4.39	3.79	2.58	172-E25-101R031
	Female	7125FEA-ND	5.62	4.85	3.30	172-E25-201R031
37	Male	7137MEA-ND	6.62	5.71	3.88	172-E37-101R031
	Female	7137FEA-ND	7.89	6.80	4.63	172-E37-201R031
50	Male	7150MEA-ND	10.30	8.88	6.04	172-E50-101R031
	Female	7150FEA-ND	15.01	12.94	8.80	172-E50-201R031
Solder Cup with .225" Spacer/Board Lock						
Tin Shell						
9	Male	102909ME-ND	3.71	3.20	2.18	172-E09-102-911
	Female	202909FE-ND	4.00	3.45	2.35	172-E09-202-911
15	Male	102915ME-ND	4.26	3.68	2.50	172-E15-102-911
	Female	202915FE-ND	4.81	4.15	2.83	172-E15-202-911
25	Male	102925ME-ND	5.05	4.35	2.96	172-E25-102-911
	Female	202925FE-ND	6.35	5.48	3.73	172-E25-202-911
37	Male	102937ME-ND	6.24	5.38	3.66	172-E37-102-911
	Female	202937FE-ND	8.03	6.93	4.71	172-E37-202-911
50	Male	102950ME-ND	9.89	8.53	5.80	172-E50-102-911
	Female	202950FE-ND	14.12	12.18	8.28	172-E50-202-911
Nickel Shell — RoHS Compliant						
9	Male	102909MEA-ND	3.68	2.54	2.08	172-E09-103R911
	Female	202909FEA-ND	3.97	2.74	2.24	172-E09-203R911
15	Male	102915MEA-ND	4.26	2.94	2.40	172-E15-103R911
	Female	202915FEA-ND	4.68	3.26	2.68	172-E15-203R911
25	Male	102925MEA-ND	4.81	3.42	2.80	172-E25-103R911
	Female	202925FEA-ND	5.77	4.22	3.45	172-E25-203R911
37	Male	102937MEA-ND	5.67	4.15	3.38	172-E37-103R911
	Female	202937FEA-ND	7.08	5.24	4.33	172-E37-203R911
50	Male	102950MEA-ND	8.47	6.36	5.30	172-E50-103R911
	Female	202950FEA-ND	11.34	8.72	7.31	172-E50-203R911
Yellow Chromate						
15	Male	101915ME-ND	4.15	3.58	2.44	172-E15-101-911
	Female	201915FE-ND	4.99	4.30	2.93	172-E15-201-911
25	Female	201925FE-ND	5.68	4.90	3.34	172-E25-201-911
37	Male	101937ME-ND	6.58	5.68	3.86	172-E37-101-911
50	Male	101950ME-ND	9.89	8.53	5.80	172-E50-101-911
	Female	201950FE-ND	14.12	12.18	8.28	172-E50-201-911
Yellow Chromate — RoHS Compliant						
9	Male	101909MEA-ND	3.52	3.04	2.07	172-E09-101R911
	Female	201909FEA-ND	4.05	3.50	2.38	172-E09-201R911
15	Male	101915MEA-ND	4.13	3.56	2.43	172-E15-101R911
	Female	201915FEA-ND	5.04	3.58	2.94	172-E15-201R911
25	Male	101925MEA-ND	4.59	3.96	2.69	172-E25-101R911
	Female	201925FEA-ND	5.75	4.96	3.37	172-E25-201R911
37	Male	101937MEA-ND	6.69	5.77	3.93	172-E37-101R911
	Female	201937FEA-ND	8.73	7.53	5.12	172-E37-201R911
50	Male	1951MEA-ND	10.24	8.83	6.01	172-E50-101R911
	Female	201950FEA- ND	14.60	12.59	8.57	172-E50-201R911
Dip Solder						
Tin Shell						
15	Male	1515MNE-ND	2.93	2.53	1.72	172-E15-112-001
	Female	1515FNE-ND	3.80	3.28	2.23	172-E15-212-001
25	Male	1525MNE-ND	3.63	3.13	2.13	172-E25-112-001
37	Male	1537MNE-ND	4.99	4.30	2.93	172-E37-112-001
50	Male	1550MNE-ND	8.29	7.15	4.87	172-E50-112-001
	Female	1550FNE-ND	10.59	9.13	6.21	172-E50-212-001
Nickel Shell — RoHS Compliant						
9	Male	1509MNEA-ND	2.54	2.19	1.49	172-E09-113R001
	Female	1509FNEA-ND	3.18	2.74	1.87	172-E09-213R001
15	Male	1515MNEA-ND	3.42	2.95	2.01	172-E15-113R001
	Female	1515FNEA-ND	4.43	3.82	2.60	172-E15-213R001
25	Male	1525MNEA-ND	4.23	3.65	2.48	172-E25-113R001
	Female	1525FNEA-ND	5.56	4.07	3.32	172-E25-213R001
37	Male	1537MNEA-ND	9.30	8.02	5.46	172-E37-113R001
	Female	1537FNEA-ND	9.30	8.02	5.46	172-E37-213R001
50	Male	1550MNEA-ND	9.67	8.34	5.67	172-E50-113R001
	Female	1550FNEA-ND	12.34	10.64	7.24	172-E50-213R001
Yellow Chromate						
50	Male	550ME-ND	8.29	7.15	4.87	172-E50-111-001
Yellow Chromate — RoHS Compliant						
9	Male	509MEA-ND	2.16	1.87	1.27	172-E09-111R001
	Female	509FEA-ND	3.08	2.66	1.81	172-E09-211R001
15	Male	515MEA-ND	2.91	2.51	1.71	172-E15-111R001
	Female	515FEA-ND	4.40	3.79	2.58	172-E15-211R001
25	Male	525MEA-ND	4.03	3.47	2.36	172-E25-111R001
	Female	525FEA-ND	6.02	5.19	3.53	172-E25-211R001
37	Male	537MEA-ND	8.69	7.50	5.10	172-E37-111R001
	Female	537FEA-ND	8.69	7.50	5.10	172-E37-211R001
50	Male	550MEA-ND	8.79	7.58	5.16	172-E50-111R001
	Female	550FEA-ND	12.28	10.59	7.20	172-E50-211R001
Dip Solder with .065" Clinch Nuts, Board Side						
Tin Shell						
9	Male	2509ME-ND	3.13	2.70	1.84	172-E09-112-011
	Female	2509FE-ND	3.68	3.18	2.16	172-E09-212-011
15	Male	2515ME-ND	3.89	3.35	2.28	172-E15-112-011
	Female	2515FE-ND	4.76	4.10	2.79	172-E15-212-011
25	Male	2525ME-ND	4.58	3.95	2.69	172-E25-112-011
	Female	2525FE-ND	6.61	5.70	3.88	172-E25-212-011
37	Male	2537ME-ND	5.95	5.13	3.49	172-E37-112-011
	Female	2537FE-ND	8.93	7.70	5.24	172-E37-212-011
50	Male	2550ME-ND	9.25	7.98	5.43	172-E50-112-011
	Female	2550FE-ND	11.54	9.95	6.77	172-E50-212-011
Nickel Shell — RoHS Compliant						
9	Male	2509MEA-ND	3.65	3.15	2.15	172-E09-113R011
	Female	2509FEA-ND	4.29	3.71	2.52	172-E09-213R011
15	Male	2515MEA-ND	4.53	3.91	2.66	172-E15-113R011
	Female	2515FEA-ND	5.54	4.78	3.26	172-E15-213R011
25	Male	2525MEA-ND	5.34	4.61	3.14	172-E25-113R011
	Female	2525FEA-ND	7.71	6.65	4.52	172-E25-213R011
37	Male	2537MEA-ND	10.41	8.98	6.11	172-E37-113R011
	Female	2537FEA-ND	10.41	8.98	6.11	172-E37-213R011
50	Male	2550MEA-ND	10.79	9.30	6.33	172-E50-113R011
	Female	2550FEA-ND	13.46	11.61	7.89	172-E50-213R011
Yellow Chromate						
15	Female	5515FE-ND	4.73	4.08	2.78	172-E15-211-011
25	Male	5525ME-ND	4.41	3.80	2.59	172-E25-111-011
	Female	5525FE-ND	6.12	5.28	3.59	172-E25-211-011
37	Male	5537ME-ND	5.97	5.15	3.51	172-E37-111-011
50	Male	5550ME-ND	9.25	7.98	5.43	172-E50-111-011
	Female	5550FE-ND	11.54	9.95	6.77	172-E50-211-011
Yellow Chromate — RoHS Compliant						
9	Male	5509MEA-ND	3.28	2.83	1.93	172-E09-111R011
15	Male	5515MEA-ND	4.03	3.47	2.36	172-E15-111R011
25	Male	5525MEA-ND	5.14	4.43	3.02	172-E25-111R011
	Female	5525FEA-ND	7.13	6.15	4.19	172-E25-211R011
37	Male	5537MEA-ND	9.80	8.46	5.75	172-E37-111R011
	Female	5537FEA-ND	9.80	8.46	5.75	172-E37-211R011
50	Male	5550MEA-ND	9.80	8.46	5.75	172-E50-111R011
	Female	5550FEA-ND	13.46	11.61	7.89	172-E50-211R011

(Continued)

NORCOMP
A DIVISION OF EDAC (AMERICA) LIMITED

D-Sub Connectors

Series 172E – Machined Contacts Economy *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Dip Solder with .250" Clinch Nuts, Board Side						
Tin Shell						
9	Male	3509ME-ND	3.13	2.70	1.84	172-E09-112-021
15	Female	3515FE-ND	4.76	4.10	2.79	172-E15-212-021
25	Female	3525FE-ND	6.61	5.70	3.88	172-E25-212-021
37	Male	3537ME-ND	5.95	5.13	3.49	172-E37-112-021
	Female	3537FE-ND	8.93	7.70	5.24	172-E37-212-021
50	Male	3550ME-ND	9.25	7.98	5.43	172-E50-112-021
	Female	3550FE-ND	11.54	9.95	6.77	172-E50-212-021
Nickel Shell — RoHS Compliant						
9	Male	3509MEA-ND	3.65	3.15	2.15	172-E09-113R021
	Female	3509FEA-ND	4.05	3.50	2.38	172-E09-213R021
15	Male	3515MEA-ND	4.53	3.91	2.66	172-E15-113R021
	Female	3515FEA-ND	5.54	4.78	3.26	172-E15-213R021
25	Male	3525MEA-ND	5.34	4.61	3.14	172-E25-113R021
	Female	3525FEA-ND	7.71	6.65	4.52	172-E25-213R021
37	Male	3537MEA-ND	10.41	8.98	6.11	172-E37-113R021
	Female	3537FEA-ND	10.41	8.98	6.11	172-E37-213R021
50	Male	3550MEA-ND	10.79	9.30	6.33	172-E50-113R021
	Female	3550FEA-ND	13.46	11.61	7.89	172-E50-213R021
Yellow Chromate						
15	Female	6515FE-ND	4.73	4.08	2.78	172-E15-211-021
25	Male	6525ME-ND	4.41	3.80	2.59	172-E25-111-021
	Female	6525FE-ND	6.12	5.28	3.59	172-E25-211-021
37	Male	6537ME-ND	5.97	5.15	3.51	172-E37-111-021
50	Male	6550ME-ND	9.25	7.98	5.43	172-E50-111-021
	Female	6550FE-ND	11.54	9.95	6.77	172-E50-211-021
Yellow Chromate — RoHS Compliant						
15	Male	6515MEA-ND	4.03	3.47	2.36	172-E15-111R021
	Female	6515FEA-ND	5.51	4.76	3.24	172-E15-211R021
25	Male	6525MEA-ND	5.14	4.43	3.02	172-E25-111R021
	Female	6525FEA-ND	7.13	6.15	4.19	172-E25-211R021
37	Male	6537MEA-ND	9.80	8.46	5.75	172-E37-111R021
	Female	6537FEA-ND	9.80	8.46	5.75	172-E37-211R021
50	Male	6550MEA-ND	9.80	8.46	5.75	172-E50-111R021
	Female	6550FEA-ND	13.46	11.61	7.89	172-E50-211R021
Dip Solder with .250" Clinch Nuts, Mating Side						
Tin Shell						
9	Male	4509ME-ND	3.13	2.70	1.84	172-E09-112-031
	Female	4509FE-ND	3.68	3.18	2.16	172-E09-212-031
15	Male	4515ME-ND	3.89	3.35	2.28	172-E15-112-031
	Female	4515FE-ND	4.76	4.10	2.79	172-E15-212-031
25	Male	4525ME-ND	4.58	3.95	2.69	172-E25-112-031
	Female	4525FE-ND	6.61	5.70	3.88	172-E25-212-031
37	Male	4537ME-ND	5.95	5.13	3.49	172-E37-112-031
	Female	4537FE-ND	8.93	7.70	5.24	172-E37-212-031
50	Male	4550ME-ND	9.25	7.98	5.43	172-E50-112-031
	Female	4550FE-ND	11.54	9.95	6.77	172-E50-212-031
Nickel Shell — RoHS Compliant						
9	Male	4509MEA-ND	3.65	3.15	2.15	172-E09-113R031
	Female	4509FEA-ND	4.29	3.71	2.52	172-E09-213R031
15	Male	4515MEA-ND	4.53	3.91	2.66	172-E15-113R031
	Female	4515FEA-ND	5.23	4.51	3.07	172-E15-213R031
25	Male	4525MEA-ND	5.34	4.61	3.14	172-E25-113R031
	Female	4525FEA-ND	7.71	6.65	4.52	172-E25-213R031
37	Male	4537MEA-ND	10.41	8.98	6.11	172-E37-113R031
	Female	4537FEA-ND	10.41	8.98	6.11	172-E37-213R031
50	Male	4550MEA-ND	10.79	9.30	6.33	172-E50-113R031
	Female	4550FEA-ND	13.46	11.61	7.89	172-E50-213R031
Yellow Chromate						
9	Female	7509FE-ND	3.60	3.10	2.11	172-E09-211-031
15	Female	7515FE-ND	4.73	4.08	2.78	172-E15-211-031
37	Male	7537ME-ND	5.97	5.15	3.51	172-E37-111-031
	Female	7537FE-ND	8.41	7.25	4.93	172-E37-211-031
50	Male	7550ME-ND	9.25	7.98	5.43	172-E50-111-031
Yellow Chromate — RoHS Compliant						
9	Male	7509MEA-ND	3.28	2.83	1.93	172-E09-111R031
	Female	7509FEA-ND	4.19	3.62	2.46	172-E09-211R031
15	Male	7515MEA-ND	4.03	3.47	2.36	172-E15-111R031
	Female	7515FEA-ND	5.51	4.76	3.24	172-E15-211R031
25	Male	7525MEA-ND	5.14	4.43	3.02	172-E25-111R031
	Female	7525FEA-ND	7.13	6.15	4.19	172-E25-211R031
37	Male	7537MEA-ND	9.80	8.46	5.75	172-E37-111R031
	Female	7537FEA-ND	9.80	8.46	5.75	172-E37-211R031
50	Male	7550MEA-ND	9.80	8.46	5.75	172-E50-111R031
	Female	7550FEA-ND	13.46	11.61	7.89	172-E50-211R031
Dip Solder with .225" Board Side, .197" Mating Side Clinch Nuts						
Tin Shell						
15	Male	2915ME-ND	4.52	3.90	2.66	172-E15-112-911
37	Female	2937FE-ND	9.57	8.25	5.61	172-E37-212-911
50	Male	2950ME-ND	9.89	8.53	5.80	172-E50-112-911
	Female	2950FE-ND	12.18	10.50	7.14	172-E50-212-911
Nickel Shell — RoHS Compliant						
9	Male	2909MEA-ND	4.40	3.79	2.58	172-E09-113R911
	Female	2909FEA-ND	5.04	4.35	2.96	172-E09-213R911
15	Male	2915MEA-ND	5.28	4.55	3.10	172-E15-113R911
	Female	2915FEA-ND	6.29	5.43	3.69	172-E15-213R911
25	Male	2925MEA-ND	6.09	5.25	3.57	172-E25-113R911
	Female	2925FEA-ND	8.45	7.29	4.96	172-E25-213R911
37	Male	2937MEA-ND	11.16	9.62	6.55	172-E37-113R911
	Female	2937FEA-ND	11.16	9.62	6.55	172-E37-213R911
50	Male	2950MEA-ND	11.53	9.94	6.76	172-E50-113R911
	Female	2950FEA-ND	14.20	12.25	8.33	172-E50-213R911
Yellow Chromate						
15	Male	1915ME-ND	4.09	3.53	2.40	172-E15-111-911
25	Female	1925FE-ND	6.76	5.83	3.97	172-E25-211-911
37	Male	1937ME-ND	6.61	5.70	3.88	172-E37-111-911
50	Male	1950ME-ND	9.92	8.55	5.82	172-E50-111-911
	Female	1950FE-ND	12.18	10.50	7.14	172-E50-211-911
Yellow Chromate — RoHS Compliant						
9	Male	1909MEA-ND	4.03	3.47	2.36	172-E09-111R911
	Female	1909FEA-ND	4.97	4.29	2.92	172-E09-211R911
15	Male	1915MEA-ND	4.77	4.11	2.80	172-E15-111R911
	Female	1915FEA-ND	6.26	5.40	3.67	172-E15-211R911
25	Male	1925MEA-ND	5.88	5.08	3.45	172-E25-111R911
	Female	1925FEA-ND	7.88	6.80	4.62	172-E25-211R911
37	Male	1937MEA-ND	10.55	9.10	6.19	172-E37-111R911
	Female	1937FEA-ND	10.55	9.10	6.19	172-E37-211R911
50	Male	1950MEA-ND	11.57	9.97	6.78	172-E50-111R911
	Female	1950FEA-ND	14.20	12.25	8.33	172-E50-211R911

Series 172
High Profile – Machined Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Tin Shell						
15	Male	12615M-ND	4.90	4.23	2.88	172-015-182-001
	Female	12615F-ND	6.44	5.55	3.78	172-015-282-001
37	Male	12637M-ND	15.11	13.03	8.86	172-037-182-001
	Female	12637F-ND	14.85	12.80	8.71	172-037-282-001
50	Male	12650M-ND	14.88	12.83	8.73	172-050-182-001
	Female	12650F-ND	19.95	17.20	11.70	172-050-282-001
Nickel Shell — RoHS Compliant						
9	Male	12609MA-ND	3.36	2.90	1.97	172-009-183L001
	Female	12609FA-ND	4.49	3.87	2.64	172-009-283L001
15	Male	12615MA-ND	4.97	4.29	2.92	172-015-183L001
	Female	12615FA-ND	9.98	7.60	6.51	172-015-283L001
25	Male	12625MA-ND	7.59	6.54	4.45	172-025-183L001
	Female	12625FA-ND	10.20	8.80	5.98	172-025-283L001
37	Male	12637MA-ND	15.30	13.19	8.97	172-037-183L001
	Female	12637FA-ND	14.09	12.15	8.26	172-037-283L001
50	Male	12650MA-ND	15.05	12.98	8.83	172-050-183L001
	Female	12650FA-ND	20.20	17.42	11.85	172-050-283L001
Yellow Chromate						
9	Male	8609M-ND	3.77	3.25	2.21	172-009-181-001
15	Male	8615M-ND	5.42	4.68	3.18	172-015-181-001
	Female	8615F-ND	6.90	5.95	4.05	172-015-281-001
37	Male	8637M-ND	11.48	9.90	6.74	172-037-181-001
	Female	8637F-ND	15.28	13.18	8.96	172-037-281-001
Yellow Chromate — RoHS Compliant						
9	Male	8609ME-ND	3.48	2.32	1.90	172-009-181L001
	Female	8609FE-ND	4.34	3.03	2.48	172-009-281L001
15	Male	8615ME-ND	6.55	4.85	4.01	172-015-181L001
	Female	8615FE-ND	5.85	4.28	3.49	172-015-281L001
25	Male	8625ME-ND	6.55	4.85	4.01	172-025-181L001
	Female	8625FE-ND	8.45	6.34	5.28	172-025-281L001
37	Male	8637ME-ND	11.88	9.14	7.66	172-037-181L001
	Female	8637FE-ND	11.18	8.51	7.29	172-037-281L001
50	Male	8650ME-ND	11.68	8.98	7.53	172-050-181L001
	Female	8650FE-ND	15.33	12.06	10.11	172-050-281L001
.065" Clinch Nuts, Board Side						
Tin Shell						
25	Male	13625M-ND	8.35	7.20	4.90	172-025-182-011
37	Male	13637M-ND	15.98	13.78	9.37	172-037-182-011
	Female	13637F-ND	15.72	13.55	9.22	172-037-282-011
50	Male	13650M-ND	15.75	13.58	9.24	172-050-182-011
	Female	13650F-ND	20.82	17.95	12.21	172-050-282-011
Nickel Shell — RoHS Compliant						
9	Male	13609MA-ND	4.32	3.73	2.54	172-009-183L011
	Female	13609FA-ND	5.46	4.71	3.20	172-009-283L011
15	Male	13615MA-ND	5.94	5.12	3.49	172-015-183L011
	Female	13615FA-ND	7.49	6.46	4.39	172-015-283L011
25	Male	13625MA-ND	8.56	7.38	5.02	172-025-183L011
	Female	13625FA-ND	11.17	9.63	6.55	172-025-283L011
37	Male	13637MA-ND	16.27	14.03	9.54	172-037-183L011
	Female	13637FA-ND	15.06	12.98	8.83	172-037-283L011
50	Male	13650MA-ND	16.02	13.82	9.40	172-050-183L011
	Female	13650FA-ND	21.17	18.26	12.42	172-050-283L011
Yellow Chromate						
9	Male	9609M-ND	4.64	4.00	2.72	172-009-181-011
15	Male	9615M-ND	6.29	5.43	3.69	172-015-181-011
	Female	9615F-ND	7.77	6.70	4.56	172-015-281-011
25	Male	9625M-ND	8.90	7.68	5.22	172-025-181-011
	Female	9625F-ND	11.54	9.95	6.77	172-025-281-011
37	Male	9637M-ND	12.35	10.65	7.25	172-037-181-011
	Female	9637F-ND	16.15	13.93	9.47	172-037-281-011
50	Male	9650M-ND	15.52	13.38	9.10	172-050-181-011
	Female	9650F-ND	20.82	17.95	12.21	172-050-281-011
Yellow Chromate — RoHS Compliant						
9	Male	9609ME-ND	4.32	2.98	2.43	172-009-181L011
	Female	9609FE-ND	5.17	3.67	3.01	172-009-281L011
15	Male	9615ME-ND	5.33	3.90	3.18	172-015-181L011
	Female	9615FE-ND	6.45	4.78	3.95	172-015-281L011
25	Female	9625FE-ND	9.24	6.93	5.78	172-025-281L011
37	Male	9637ME-ND	12.62	9.71	8.14	172-037-181L011
	Female	9637FE-ND	11.70	9.00	7.54	172-037-281L011
50	Male	9650ME-ND	12.44	9.57	8.02	172-050-181L011
	Female	9650FE-ND	16.06	12.41	10.59	172-050-281L011
.250" Clinch Nuts, Board Side						
Tin Shell						
15	Male	14615M-ND	5.77	4.98	3.39	172-015-182-021
	Female	14615F-ND	7.31	6.30	4.29	172-015-282-021
37	Female	14637F-ND	15.72	13.55	9.22	172-037-282-021
50	Male	14650M-ND	15.75	13.58	9.24	172-050-182-021
	Female	14650F-ND	20.82	17.95	12.21	172-050-282-021
Nickel Shell — RoHS Compliant						
9	Male	14609MA-ND	4.32	3.73	2.54	172-009-183L021
	Female	14609FA-ND	5.46	4.71	3.20	172-009-283L021
15	Male	14615MA-ND	5.94	5.12	3.49	172-015-183L021
	Female	14615FA-ND	7.49	6.46	4.39	172-015-283L021
25	Male	14625MA-ND	8.56	7.38	5.02	172-025-183L021
	Female	14625FA-ND	11.17	9.63	6.55	172-025-283L021
37	Male	14637MA-ND	16.27	14.03	9.54	172-037-183L021
	Female	14637FA-ND	15.72	13.55	9.22	172-037-283L021
50	Male	14650MA-ND	16.02	13.82	9.40	172-050-183L021
	Female	14650FA-ND	21.17	18.26	12.42	172-050-283L021
Yellow Chromate						
15	Male	10615M-ND	6.29	5.43	3.69	172-015-181-021
	Female	10615F-ND	7.77	6.70	4.56	172-015-281-021
25	Male	10625M-ND	8.90	7.68	5.22	172-025-181-021
	Female	10625F-ND	11.54	9.95	6.77	172-025-281-021
37	Male	10637M-ND	12.35	10.65	7.25	172-037-181-021
	Female	10637F-ND	16.15	13.93	9.47	172-037-281-021
50	Female	10650F-ND	20.82	17.95	12.21	172-050-281-021
Yellow Chromate — RoHS Compliant						
9	Male	10609ME-ND	4.40	3.07	2.52	172-009-181L021
	Female	10609FE-ND	5.17	3.67	3.01	172-009-281L021
15	Male	10615ME-ND	5.33	3.90	3.18	172-015-181L021
	Female	10615FE-ND	6.45	4.78	3.95	172-015-281L021
25	Male	10625ME-ND	7.38	5.46	4.52	172-025-181L021
	Female	10625FE-ND	9.24	6.93	5.78	172-025-281L021
37	Male	10637ME-ND	12.62	9.71	8.14	172-037-181L021
	Female	10637FE-ND	11.70	9.00	7.54	172-037-281L021
50	Male	10650ME-ND	12.44	9.57	8.02	172-050-181L021
	Female	10650FE-ND	16.06	12.41	10.59	172-050-281L021
.250" Clinch Nuts, Mating Side						
Tin Shell						
15	Male	15615M-ND	5.77	4.98	3.39	172-015-182-031
25	Male	15625M-ND	8.35	7.20	4.90	172-025-182-031
	Female	15625F-ND	10.93	9.43	6.41	172-025-282-031
37	Female	15637F-ND	15.72	13.55	9.22	172-037-282-031
50	Male	15650M-ND	15.75	13.58	9.24	172-050-182-031
	Female	15650F-ND	20.82	17.95	12.21	172-050-282-031
Nickel Shell — RoHS Compliant						
9	Male	15609MA-ND	4.32	3.73	2.54	172-009-183L031
	Female	15609FA-ND	5.46	4.71	3.20	172-009-283L031
15	Male	15615MA-ND	5.94	5.12	3.49	172-015-183L031
	Female	15615FA-ND	7.49	6.46	4.39	172-015-283L031
25	Male	15625MA-ND	8.56	7.38	5.02	172-025-183L031
	Female	11625FA-ND	11.17	9.63	6.55	172-025-283L031
37	Male	15637MA-ND	16.27	14.03	9.54	172-037-183L031
	Female	15637FA-ND	15.06	12.98	8.83	172-037-283L031
50	Male	15650MA-ND	16.02	13.82	9.40	172-050-183L031
	Female	15650FA-ND	21.17	18.26	12.42	172-050-283L031
Yellow Chromate						
9	Female	11609F-ND	5.28	4.55	3.10	172-009-281-031
15	Male	11615M-ND	6.29	5.43	3.69	172-015-181-031
	Female	11615F-ND	7.77	6.70	4.56	172-015-281-031
25	Male	11625M-ND	8.90	7.68	5.22	172-025-181-031
37	Male	11637M-ND	12.35	10.65	7.25	172-037-181-031
	Female	11637F-ND	16.15	13.93	9.47	172-037-281-031
50	Female	11650F-ND	20.82	17.95	12.21	172-050-281-031
Yellow Chromate — RoHS Compliant						
9	Male	11609ME-ND	4.32	2.98	2.43	172-009-181L031
	Female	11609FE-ND	5.17	3.67	3.01	172-009-281L031
15	Male	11615ME-ND	5.33	3.90	3.18	172-015-181L031
	Female	11615FE-ND	6.45	4.78	3.95	172-015-281L031
25	Male	11625ME-ND	7.38	5.46	4.52	172-025-181L031
	Female	11625FE-ND	9.24	6.93	5.78	172-025-281L031
37	Male	11637ME-ND	12.62	9.71	8.14	172-037-181L031
	Female	11637FE-ND	11.70	9.00	7.54	172-037-281L031
50	Male	11650ME-ND	12.44	9.57	8.02	172-050-181L031
	Female	11650FE-ND	16.06	12.41	10.59	172-050-281L031

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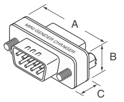

D-Sub Adapters

Connector Saver

Connector Size	Dimensions – Inch A	B	C
9	1.215	0.492	0.236
15	1.546	0.492	0.236
25	2.091	0.492	0.236
37	2.755	0.492	0.236
15†	1.215	0.492	0.236
26†	1.546	0.492	0.236
44†	2.091	0.492	0.236
62†	2.755	0.492	0.236

No. of Pins	D-Sub	Digi-Key Part No.	Price Each 1	10	100
9	Male to Female	GCLP09M09F-ND	3.60	2.48	2.03
15		GCLP15M15F-ND	4.00	2.76	2.25
25		GCLP25M25F-ND	4.42	3.09	2.53
37		GCLP37M37F-ND	6.08	4.45	3.63
15	Male to Female	GCHDLP15M15F-ND†	5.29	3.83	3.14
26		GCHDLP26M26F-ND†	11.48	8.83	7.40
44		GCHDLP44M44F-ND†	12.65	9.73	8.15
62		GCHDLP62M62F-ND†	17.22	13.94	11.69

† High Density

Gender Changer

Connector Size	Dimensions – Inch A	B	C
9	1.215	0.492	0.236
15	1.546	0.492	0.236
25	2.091	0.492	0.236
37	2.755	0.492	0.236
15†	1.215	0.492	0.236
26†	1.546	0.492	0.236
44†	2.091	0.492	0.236
62†	2.755	0.492	0.236

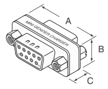

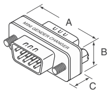

No. of Pins	D-Sub	Digi-Key Part No.	Price Each 1	10	100
9	Female to Female	GCLP09F09F-ND	3.48	2.40	1.96
15		GCLP15F15F-ND	4.12	2.77	2.32
25		GCLP25F25F-ND	4.54	3.16	2.60
37		GCLP37F37F-ND	6.19	4.53	3.69
9	Male to Male	GCLP09M09M-ND	3.42	2.28	1.86
15		GCLP15M15M-ND	3.89	2.68	2.19
25		GCLP25M25M-ND	4.26	2.97	2.44
37		GCLP37M37M-ND	5.93	4.34	3.54
15	Female to Female	GCHDLP15F15F-ND†	5.20	3.80	3.10
26		GCHDLP26F26F-ND†	11.57	8.90	7.46
44		GCHDLP44F44F-ND†	12.87	9.90	8.30
62		GCHDLP62F62F-ND†	17.39	14.08	11.80
15	Male to Male	GCHDLP15M15M-ND†	5.13	3.71	3.04
26		GCHDLP26M26M-ND†	11.34	8.72	7.31
44		GCHDLP44M44M-ND†	12.42	9.55	8.01
62		GCHDLP62M62M-ND†	17.01	13.77	11.55

† High Density

RJADK Series

RJ45 Adaptor

- 9, 15, and 25 position D-Subs/ both male and female versions
- Supplied with contacts pre-crimped onto conductors - No crimp tool required
- Snap together design allows low cost assembly
- 4 ~ 40 thumbscrews supplied pre-installed in backshell

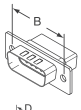

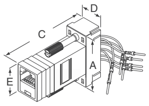

Connector Size	Dimensions – Inch A	B	C	D	E
9	1.299	0.984	1.949	0.632	0.787
15	1.631	1.311	1.543	0.632	0.894
25	2.161	1.874	1.545	0.632	1.339

No. of Pins	D-Sub	Type	Digi-Key Part No.	Price Each 1	10	100
9	Male	Black Plastic	RJADK09P7080811-ND	4.12	2.84	2.32
9	Female		RJADK09S7080811-ND	4.12	2.84	2.32
15	Male		RJADK15P7080811-ND	4.12	2.84	2.32
15	Female		RJADK15S7080811-ND	4.12	2.84	2.32
25	Male		RJADK25P7080811-ND	4.12	2.84	2.32
25	Female		RJADK25S7080811-ND	4.12	2.84	2.32
9	Male	Metalized Plastic	RJADK09P7080821-ND	5.13	3.71	3.04
9	Female		RJADK09S7080821-ND	5.13	3.71	3.04
15	Male		RJADK15P7080821-ND	5.13	3.71	3.04
15	Female		RJADK15S7080821-ND	5.13	3.71	3.04
25	Male		RJADK25P7080821-ND	5.13	3.71	3.04
25	Female		RJADK25S7080821-ND	5.13	3.71	3.04
9	Male	Gray Plastic	RJADK09P7080831-ND	4.12	2.84	2.32
9	Female		RJADK09S7080831-ND	4.12	2.84	2.32
15	Male		RJADK15P7080831-ND	4.12	2.84	2.32
15	Female		RJADK15S7080831-ND	4.12	2.84	2.32
25	Male		RJADK25P7080831-ND	4.12	2.84	2.32
25	Female		RJADK25S7080831-ND	4.12	2.84	2.32

Backshells

952 Series – Straight/Top Entry

- 4 ~ 40 thumbscrews supplied with backshell
- More robust design for those areas that need it
- 360° shielding with mechanical strain relief
- 2 piece metalized plastic compression insert supplied

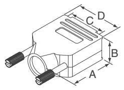

Connector Size	Dimensions – Inch A	B	C	D
9	1.626	0.606	0.984	1.268
15	1.705	0.606	1.312	1.598
25	1.949	0.606	1.852	2.146
37	2.138	0.606	2.500	2.783

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast Nickel	952-09SCE-ND	8.23	6.18	5.15	952-009-030R121
15		952-15SCE-ND	6.95	5.15	4.26	952-015-030R121
25		952-25SCE-ND	7.05	5.22	4.32	952-025-030R121
37		952-37SCE-ND	9.82	7.48	6.41	952-037-030R121

956 Series

Straight/Top Entry

- Snap together design allows low cost assembly
- 4 ~ 40 mating screw supplied with backshell
- Quick assembly strain relief allows positive retention

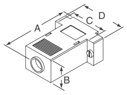

Connector Size	Dimensions – Inch A	B	C	D
9	1.618	0.622	0.984	1.201
15	1.634	0.610	1.311	1.579
25	1.732	0.670	1.874	2.110

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	956-09SPGE-ND	.95	.58	.42	956-009-010R031
15		956-15SPGE-ND	.95	.58	.42	956-015-010R031
25		956-25SPGE-ND	1.01	.63	.46	956-025-010R031
9	Black Plastic	956-09SPBE-ND	.95	.58	.42	956-009-010R011
15		956-15SPBE-ND	.95	.58	.42	956-015-010R011
25		956-25SPBE-ND	1.01	.63	.46	956-025-010R011
9	Metal Plastic	956-09SMPE-ND	1.43	.92	.69	956-009-020R121
15		956-15SMPE-ND	1.48	.96	.70	956-015-020R121
25		956-25SMPE-ND	1.63	1.02	.77	956-025-020R121

970 Series – Straight/Top Entry

- **Die Cast:** Lightweight zinc. Plating: Nickel over copper or black die cast
- **Metalized Plastic:** High temperature plastic UL 94V-0. Plating: Nickel over copper
- **Plastic:** High temperature plastic UL 94V-2
- **Plastic-RoHS Compliant:** High temperature plastic UL 94V-0, black
- **Hardware:** Steel with nickel or black chromate

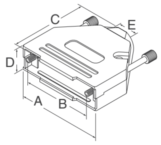

Connector Size	Dimensions – Inch A	B	C	D	E
9	1.228	.984	1.571	.610	.465
15	1.555	1.312	1.634	.610	.465
25	2.102	1.852	1.913	.610	.465
37	2.744	2.500	2.110	.610	.465

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
37	Black Die Cast	970-37BC-ND	11.22	9.68	6.58	970-037-040-011
RoHS Compliant						
9	Die Cast Nickel	970-09NE-ND	5.53	4.77	3.25	970-009-030R121
15		970-15NE-ND	6.58	5.67	3.86	970-015-030R121
25		970-25NE-ND	6.58	5.67	3.86	970-025-030R121
37		970-37NE-ND	10.11	8.72	5.93	970-037-030R121
9	Metalized Plastic	970-09MPE-ND	5.16	4.46	3.03	970-009-020R121
15		970-15MPE-ND	5.38	4.64	3.16	970-015-020R121
25		970-25MPE-ND	5.59	4.83	3.28	970-025-020R121
37		970-37MPE-ND	6.21	5.36	3.64	970-037-020R121
9	Black Plastic	970-09BPE-ND	2.52	2.18	1.48	970-009-010R011
15		970-15BPE-ND	2.52	2.18	1.48	970-015-010R011
25		970-25BPE-ND	2.64	2.28	1.56	970-025-010R011
37		970-37BPE-ND	2.73	2.36	1.61	970-037-010R011
9	Black Die Cast	970-09BCA-ND	5.16	3.73	3.06	970-009-040R011
15		970-15BCA-ND	5.67	4.31	3.52	970-015-040R011
25		970-25BCA-ND	5.90	4.31	3.52	970-025-040R011
37		970-37BCA-ND	7.90	5.93	4.94	970-037-040R011

972 Series – Slim-Line Clam Shell Style

- High temperature ABS plastic UL94V-2

Conn. Size	Dimensions – Inch A	B	C	D	E
9	1.240	.984	1.339	.591	.453
15	1.575	1.312	1.339	.591	.453
25	2.106	1.852	1.575	.591	.453
37	2.795	2.500	1.575	.591	.453

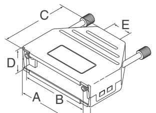

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	972-09SGE-ND	2.80	2.42	1.65	972-009-01SR031
15		972-15SGE-ND	2.95	2.55	1.74	972-015-01SR031
25		972-25SGE-ND	3.11	2.68	1.83	972-025-01SR031
37		972-37SGE-ND	3.26	2.81	1.92	972-037-01SR031
9	Black Plastic	972-09SBE-ND	2.80	2.42	1.65	972-009-01SR011
15		972-15SBE-ND	2.95	2.55	1.74	972-015-01SR011
25		972-25SBE-ND	3.11	2.68	1.83	972-025-01SR011
37		972-37SBE-ND	3.26	2.81	1.92	972-037-01SR011
9	Red Plastic	972-09SR-ND	2.64	2.28	1.55	972-009-01SR061
15		972-15SR-ND	2.76	2.38	1.62	972-015-01SR061
25		972-25SR-ND	2.90	2.50	1.70	972-025-01SR061
37		972-37SR-ND	3.10	2.68	1.82	972-037-01SR061
9	Yellow Plastic	972-09SY-ND	2.64	2.28	1.55	972-009-01SR081
15		972-15SY-ND	2.76	2.38	1.62	972-015-01SR081
25		972-25SY-ND	2.90	2.50	1.70	972-025-01SR081
37		972-37SY-ND	3.10	2.68	1.82	972-037-01SR081

973 Series – Straight/Top Entry

- **Metalized Plastic:** High temperature plastic UL 94V-0. Plating: Nickel over copper
- **Plastic:** High temperature plastic UL 94V-2
- **Plastic-RoHS Compliant:** High temperature plastic UL 94V-0, black
- **Hardware:** Steel, nickel plated

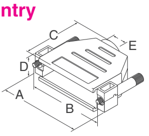

Connector Size	Dimensions – Inch A	B	C	D	E
9	1.240	.984	1.221	.598	.335
15	1.575	1.312	1.378	.598	.335
25	2.106	1.852	1.496	.598	.433
37	2.756	2.500	1.575	.598	.433

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
37	Metalized Plastic	973-37MP-ND	10.41	8.98	6.11	973-037-020-121
37	Plastic	973-37BP-ND	5.13	4.43	3.01	973-037-010-011
RoHS Compliant						
9	Metalized Plastic	973-09MPE-ND	6.92	5.97	4.06	973-009-020R121
15		973-15MPE-ND	7.16	6.18	4.20	973-015-020R121
25		973-25MPE-ND	7.35	6.34	4.31	973-025-020R121
37		973-37MPE-ND	9.93	8.56	5.83	973-037-020R121
9	Black Plastic	973-09BPE-ND	3.66	3.16	2.15	973-009-010R011
15		973-15BPE-ND	3.87	3.34	2.28	973-015-010R011
25		973-25BPE-ND	4.06	3.50	2.38	973-025-010R011
37		973-37BPE-ND	4.92	4.24	2.89	973-037-010R011

977 Series – Plastic or Metalized

- Available in both plain plastic and metalized for EMI/RFI suppression
- Over 60dB shielding

Materials: • **Shell:** Thermoplastic polyester, UL rated 94V-0 • **Screw locks:** Brass • **EMI/RFI Plating:** Electroplated with nickel over copper

RoHS Compliant Materials: • **Metalized Plastic:** High Temperature, UL 94H-B Plating: Nickel over copper • **Plastic:** High Temperature plastic UL 94H-B (gray) • **Hardware:** Steel, Nickel plated

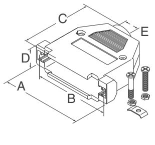

Connector Size	Dimensions – Inch A	B	C	D	E
9	1.213	.984	1.594	.646	.275
15	1.563	1.312	1.453	.646	.400
25	2.165	1.852	1.752	.646	.435
37	2.736	2.500	2.096	.984	.535
50	2.640	2.406	1.750	.731	.450

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
50	Plain Plastic	950GP-ND	1.51	1.30	.89	977-050-010-031
RoHS Compliant						
9	Shielded Metalized Plastic (for EMI/RFI)	909GME-ND	.93	.81	.55	977-009-020R121
15		915GME-ND	1.11	.96	.66	977-015-020R121
25		925GME-ND	1.11	.96	.66	977-025-020R121
37		937GME-ND	2.66	2.29	1.56	977-037-020R121
50		950GME-ND	2.08	1.80	1.22	977-050-020R121
9	Plain Plastic	909GPE-ND	.67	.58	.40	977-009-010R031
15		915GPE-ND	.84	.73	.50	977-015-010R031
25		925GPE-ND	.90	.78	.54	977-025-010R031
37		937GPE-ND	1.24	1.08	.73	977-037-010R031
50		950GPE-ND	1.77	1.53	1.05	977-050-010R031

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NORCOMP
A DIVISION OF EDAC (AMERICA) LIMITED

Backshells *(Cont.)*

978 Series – Plastic or Metalized

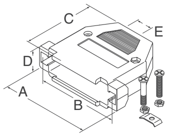

• Available in both plain plastic and metalized for EMI/RFI suppression • Over 60 dB shielding • EMI/RFI Plating – Electroplated with nickel over copper **Materials: • Shell:** Thermoplastic polyester, UL rated 94V-0 **• Screw locks:** Brass **RoHS Compliant Materials: • Metalized Plastic:** High Temperature, UL 94H-B Plating: Chrome **• Plastic:** High Temperature plastic UL 94H-B (gray) • Steel, nickel plated

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9	1.220	.984	1.693	.655	.276
15	1.535	1.312	1.693	.655	.315
25	2.118	1.852	1.929	.655	.374
37	2.756	2.500	1.929	.655	.433
50	2.650	2.406	1.909	.655	.551

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	909CE-ND	1.34	1.16	.79	978-009-010R031
15		915CE-ND	1.42	1.22	.83	978-015-010R031
25		925CE-ND	1.48	1.28	.87	978-025-010R031
37		937CE-ND	2.10	1.82	1.24	978-037-010R031
50		950CE-ND	2.14	1.85	1.26	978-050-010R031
9	Metalized Plastic	909CAE-ND	1.65	1.42	.97	978-009-020R121
15		915CAE-ND	1.89	1.63	1.11	978-015-020R121
25		925CAE-ND	2.00	1.73	1.18	978-025-020R121

979 Series – Plastic or Metalized Backshell

- ABS high temperature plastic UL94HB
- Chrome plating

Conn. Size	Dimensions – Inch				
	A	B	C	D	E
9	1.232	.984	1.913	.656	.354
15	1.555	1.312	1.895	.669	.374
25	2.100	1.852	1.900	.655	.397
37	2.748	2.500	1.900	.655	.512
50	2.697	2.406	1.900	.770	.512

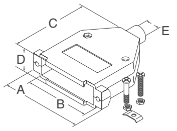

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	979-09PGE-ND	1.38	1.19	.81	979-009-010R031
15		979-15PGE-ND	1.31	1.13	.77	979-015-010R031
25		979-25PGE-ND	1.42	1.22	.83	979-025-010R031
37		979-37PGE-ND	2.62	2.26	1.54	979-037-010R031
50		979-50PGE-ND	2.80	2.41	1.64	979-050-010R031
9	Metalized Plastic	979-09MPE-ND	1.73	1.50	1.02	979-009-020R121
15		979-15MPE-ND	1.88	1.62	1.10	979-015-020R121
25		979-25MPE-ND	2.12	1.83	1.25	979-025-020R121
37		979-37MPE-ND	3.60	3.11	2.12	979-037-020R121
50		979-50MPE-ND	3.89	3.36	2.28	979-050-020R121

979 Series – Die-Cast Zinc

- Rubber grommet/ strain relief for complete EMI/RFI shielding (over 70db)
- Solid die-cast ZINC construction
- Supplied complete with rubber grommet kit and male screw locks.

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9	1.22	.79	.63	1.9	.42
15	1.55	1.11	.63	1.9	.42
25	2.10	1.64	.63	1.9	.42
37	2.73	2.27	.63	1.9	.43
50	2.64	2.18	.77	1.9	.73

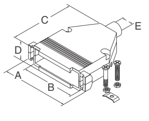

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast Zinc	909ZE-ND	2.59	2.23	1.52	979-009-030R121
15		915ZE-ND	2.94	2.54	1.73	979-015-030R121
25		925ZE-ND	3.61	3.12	2.12	979-025-030R121
37		937ZE-ND	5.39	4.65	3.16	979-037-030R121
50		950ZE-ND	7.65	6.60	4.49	979-050-030R121

994 Series – Die Cast, Ethernet

Material: Die cast zinc alloy, nickel plated. Included are housing screw and housing nuts.

Conn. Size	Dimensions – Inch					
	A	B	C	D	E	F
9	1.244	.984	1.82	.614	.433	.790
15	1.575	1.312	1.82	.665	.433	1.135
25	2.106	1.852	1.82	.630	.433	1.640

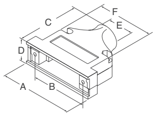

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Straight	994-09DCE-ND	5.41	3.39	3.23	994-009-030R121
15		994-15DCE-ND	5.62	3.53	3.35	994-015-030R121
25		994-25DCE-ND	6.29	3.95	3.76	994-025-030R121

981 Series – Ethernet

Materials:

- Zinc alloy ingot Plating: Nickel over copper
- Hardware: Steel, nickel plated

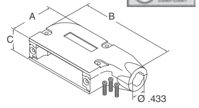

Connector Size	Dimensions – Inch					
	030			130		
	A	B	C	A	B	C
9	.984	1.240	1.850	1.265	1.850	0.628
15	1.312	1.555	2.323	1.580	2.314	0.639
25	1.852	2.106	2.835	2.143	2.870	0.633

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast Rt. Angle	909ERE-ND	5.24	3.79	3.11	981-009-030R121
15		915ERE-ND	5.36	3.92	3.20	981-015-030R121
25		925ERE-ND	6.16	4.51	3.68	981-025-030R121
9	Die Cast Rt. Angle	981-09RCE-ND†	4.65	3.24	2.66	981-009-130R121
15		981-15RCE-ND†	4.82	3.36	2.76	981-015-130R121
25		981-25RCE-ND†	5.20	3.80	3.10	981-025-130R121

† With Thumbscrews

950 Series – 60° Entry

FEATURES: • 4 ~ 40 mating screws supplied with backshell • Snap together design reduces assembly cost • Mechanical strain relief provides secure cable retention • Hood is the same thickness as connector • 60° exit promotes stacking and is suitable in extremely narrow spaces

Conn. Size	Dimensions – Inch				
	A	B	C	ø - Plastic	ø - Metal
9	1.457	0.496	1.409	0.315	0.354
15	1.496	0.496	1.736	0.315	0.354
25	1.614	0.496	2.280	0.354	0.354
37	1.614	0.496	2.925	0.354	0.354

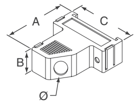

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Plastic	950-09P60E-ND	6.32	4.62	3.77	950-009-010R011
15		950-15P60E-ND	6.50	4.81	3.98	950-015-010R011
25		950-25P60E-ND	6.75	5.00	4.14	950-025-010R011
37		950-37P60E-ND	7.35	5.44	4.50	950-037-010R011
9	Metal Plastic	950-09MP60E-ND	11.36	8.65	7.41	950-009-020R121
15		950-15MP60E-ND	11.93	9.17	7.69	950-015-020R121
25		950-25MP60E-ND	12.33	9.48	7.95	950-025-020R121
37		950-37MP60E-ND	13.60	10.70	8.97	950-037-020R121

951 Series – 60° Entry

- 4 ~ 40 thumbscrews supplied with backshell
- Snap together design reduces assembly cost
- Mechanical strain relief provides secure cable retention
- Hood is the same thickness as connector
- 60° exit promotes stacking and is suitable in extremely narrow spaces

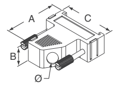

Connector Size	Dimensions – Inch				
	A	B	C	ø - Plastic	ø - Metal
9	1.457	0.496	1.409	0.315	0.354
15	1.496	0.496	1.736	0.315	0.354
25	1.614	0.496	2.280	0.354	0.354
37	1.614	0.496	2.925	0.354	0.354

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Plastic	951-0960PE-ND	6.32	4.62	3.77	951-009-010R011
15		951-15P60E-ND	7.45	5.52	4.56	951-015-010R011
25		951-25P60E-ND	7.65	5.51	4.59	951-025-010R011
37		951-37P60E-ND	8.11	6.09	5.07	951-037-010R011
9	Metal Plastic	951-09MP60E-ND	11.36	8.65	7.41	951-009-020R121
15		951-15MP60E-ND	12.78	9.83	8.24	951-015-020R121
25		951-25MP60E-ND	13.14	10.11	8.47	951-025-020R121
37		951-37MP60E-ND	14.67	11.54	9.68	951-037-020R121

954 Series – 45° Exit Ethernet Backshell

- Die Cast for excellent shielding
- Easy assembly reduces manufacturing cost
- 2 Piece grommet with various I.D.s included to enhance shielding and provide positive retention
- Slide locks and posts must be purchased separately

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9	1.429	0.571	0.984	1.220	0.512
15	1.587	0.571	1.312	1.555	0.512
25	1.587	0.571	1.852	2.094	0.512
37	1.587	0.571	2.500	2.744	0.512

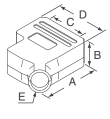

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast	954-09C45E-ND	6.32	4.62	3.77	954-009-030R121
15		954-15C45E-ND	7.35	5.44	4.50	954-015-030R121
25		954-25C45E-ND	7.53	5.42	4.52	954-025-030R121
37		954-37C45E-ND	10.72	8.16	6.99	954-037-030R121

971 Series – 45° Entry

- **Die Cast:** Lightweight zinc. Plating: Nickel over copper or black die cast
- **Metalized Plastic:** High temperature plastic UL 94V-0. Plating: Nickel over copper
- **Plastic:** High temperature plastic UL 94V-2
- **Plastic-RoHS Compliant:** High temperature plastic UL 94V-0, black
- **Hardware:** Steel with nickel or black plating

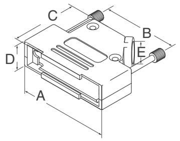

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9	1.220	.984	1.496	.610	.465
15	1.595	1.312	1.618	.610	.465
25	2.114	1.852	1.646	.610	.465
37	2.748	2.500	1.646	.610	.465

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
37	Nickel	971-37N45-ND	10.56	9.10	6.19	971-037-030-121
37	Plastic	971-37MP45-ND	6.53	5.63	3.83	971-037-020-121
RoHS Compliant						
9	Nickel	971-09N45E-ND	5.53	4.77	3.25	971-009-030R121
15		971-15N45E-ND	6.58	5.67	3.86	971-015-030R121
25		971-25N45E-ND	6.58	5.67	3.86	971-025-030R121
37		971-37N45E-ND	10.05	8.67	5.90	971-037-030R121
9	Metalized Plastic	971-09MP45E-ND	5.16	4.46	3.03	971-009-020R121
15		971-15MP45E-ND	5.38	4.64	3.16	971-015-020R121
25		971-25MP45E-ND	5.59	4.83	3.28	971-025-020R121
37		971-37MP45E-ND	6.21	5.36	3.64	971-037-020R121
9	Black Plastic	971-09BP45E-ND	2.52	2.18	1.48	971-009-010R011
15		971-15BP45E-ND	2.52	2.18	1.48	971-015-010R011
25		971-25BP45E-ND	2.64	2.28	1.56	971-025-010R011
37		971-37BP45E-ND	2.73	2.36	1.61	971-037-010R011
9	Black Die Cast	971-09CB45A-ND	5.25	3.73	3.06	971-009-040R011
15		971-15CB45A-ND	5.90	4.31	3.52	971-015-040R011
25		971-25CB45A-ND	5.90	4.31	3.52	971-025-040R011
37		971-37CB45A-ND	8.32	6.24	5.20	971-037-040R011

993 Series – 45° Economy

Material:

• **Metalized Plastic:** High Temperature UL 94H-B Plating: Chrome • **Plastic:** High Temperature plastic UL94H-B (gray) Included are housing screws, housing nuts, 4 ~ 40 thumbscrews, strain relief clamps, and strain relief screws.

• **Hardware:** Steel, nickel plated

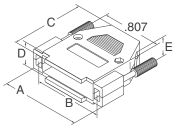

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9	1.213	.984	1.595	.630	.260
25	2.165	1.852	2.095	.641	.400

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	993-09MP45E-ND	1.81	1.57	1.07	993-009-020R121
25		993-25MP45E-ND	1.97	1.70	1.16	993-025-020R121
9	Plastic	993-109P45E-ND	1.29	1.12	.76	993-009-010R031
25		993-125P45E-ND	1.42	1.22	.83	993-025-010R031

974 Series – 40° Entry

• **Metalized Plastic:**
High temperature plastic UL 94V-0. Plating: Nickel over copper

• **Plastic:**
High temperature plastic UL 94V-0 (black)

• **Hardware:** Steel, nickel plated

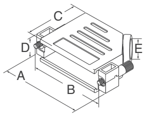

Connector Size	Dimensions – Inch				
	A	B	C	D	E
9	1.240	.984	1.457	.598	.335
15	1.575	1.312	1.457	.598	.335
25	2.106	1.852	1.614	.598	.433
37	2.756	2.500	1.614	.598	.433

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
37	Black Plastic	974-37BP40-ND	5.13	4.43	3.01	974-037-010-011
RoHS Compliant						
9	Metalized Plastic	974-09MP40E-ND	6.92	5.97	4.06	974-009-020R121
15		974-15MP40E-ND	7.16	6.18	4.20	974-015-020R121
25		974-25MP40E-ND	7.35	6.34	4.31	974-025-020R121
37		974-37MP40E-ND	9.93	8.56	5.83	974-037-020R121
9	Black Plastic	974-09BP40E-ND	3.66	3.16	2.15	974-009-010R011
15		974-15BP40E-ND	3.87	3.34	2.28	974-015-010R011
25		974-25BP40E-ND	4.06	3.50	2.38	974-025-010R011
37		974-37BP40E-ND	4.92	4.24	2.89	974-037-010R011

(Continued)

NorComp Backshells *(Cont.)*

A DIVISION OF EDAC (AMERICA) LIMITED

953 Series – 35° Entry

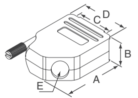

- 4 ~ 40 thumbscrews supplied with backshell (9 position only comes with 1 thumbscrew)
- More robust design for those areas that need it
- Fully tapped assembly holes allow easy assembly keeping manufacturing cost down
- 360° shielding with mechanical strain relief
- 2 Piece metalized plastic compression insert supplied

Connector Size	Dimensions – Inch A	B	C	D	E
9	1.693	0.610	0.984	1.260	0.512
15	1.693	0.610	1.312	1.591	0.512
25	1.890	0.610	1.852	2.126	0.512
37	2.087	0.610	2.500	2.776	0.512

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast	953-09C35E-ND	6.38	4.72	3.91	953-009-030R121
15		953-15C35E-ND	7.25	5.37	4.44	953-015-030R121
25		953-25C35E-ND	7.45	5.52	4.56	953-025-030R121
37		953-37C35E-ND	10.19	7.76	6.65	953-037-030R121

982 Series – Plastic or Metalized

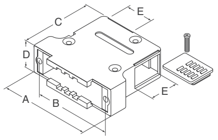

- Cable Exit Top or Side
- Available in both plain plastic and metalized for EMI/RFI suppression
- Over 60dB shielding
- Operating Temperature: -35°C ~ 95°C

Materials: • **Shell:** Thermoplastic polyester; UL rated 94V-0 • **Screw locks:** Brass • **EMI/RFI Plating:** Electroplated with nickel over copper. Electroplated parts not UL rated

RoHS Compliant Materials: • **Metalized Plastic:** High temperature UL 94V-0 Plating: Electroplated nickel over copper • **Plastic:** High temperature plastic UL 94V-0 (gray) • **Hardware:** Steel, nickel plated

Connector Size	Dimensions – Inch A	B	C	D	E
9†	1.23	.984	1.38	.630	.350
15	1.56	1.312	1.61	.630	.374
25	2.10	1.852	1.81	.630	.444
37	2.74	2.5	1.81	.630	.444
50	2.65	2.406	1.81	.735	.543

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
50	Gray Plastic	950U-ND	5.12	4.42	3.01	982-050-010-031
RoHS Compliant						
9	Gray Plastic	909UE-ND†	4.35	3.00	2.45	982-009-010R031
15		915UE-ND	4.82	3.36	2.76	982-015-010R031
25		925UE-ND	5.12	3.57	2.93	982-025-010R031
37		937UE-ND	5.32	3.94	3.16	982-037-010R031
50		950UE-ND	5.56	4.07	3.32	982-050-010R031
9	Shielded Metalized Plastic	909UAE-ND†	6.88	5.09	4.21	982-009-020R121
15		915UAE-ND	7.90	5.93	4.94	982-015-020R121
25		925UAE-ND	8.40	6.30	5.25	982-025-020R121
37		937UAE-ND	9.86	7.20	6.17	982-037-020R121
50		950UAE-ND	10.37	7.90	6.77	982-050-020R121

† 9-pin does not have a 90° cable entry.

975 Series – Plastic or Metalized

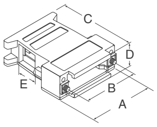

- 3-Way entry allows choice of entry options or use of multiple cable entries
- 4 ~ 40 thumbscrews supplied with backshell
- Fully tapped assembly holes allow easy assembly, keeping manufacturing cost down
- Metalized plastic provides up to 60dB shielding

Connector Size	Dimensions – Inch A	B	C	D	E
9†	1.213	.984	1.800	.600	.300
15	1.541	1.312	1.800	.600	.335
25	2.088	1.852	1.800	.600	.375
37	2.735	2.500	1.800	.600	.400

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	975-09MPA-ND†	6.92	5.97	4.06	975-009-020R121
15		975-15MPA-ND	7.16	6.18	4.20	975-015-020R121
25		975-25MPA-ND	7.35	6.34	4.31	975-025-020R121
37		975-37MPA-ND	9.93	8.56	5.83	975-037-020R121
9	Black Plastic	975-09BPA-ND†	5.81	5.01	3.41	975-009-010R011
15		975-15BPA-ND	5.81	5.01	3.41	975-015-010R011
25		975-25BPA-ND	5.81	5.01	3.41	975-025-010R011
37		975-37BPA-ND	7.90	6.81	4.64	975-037-010R011

† 9 position has top cable entry only

976 Series – Plastic, Flat Ribbon

ABS high temperature plastic 94HB. Complete with 4-40 mating screws, housing screws and housing nuts.

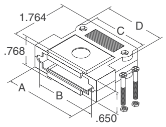

Conn. Size	Dimensions – Inch A	B	C	D
9	1.319	.984	.758	.946
15	1.622	1.312	1.102	1.289
25	2.157	1.852	1.642	1.874
37	2.815	2.500	2.283	2.470

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	976-09RPE-ND	1.55	1.34	.92	976-009-010R031
15		976-15RPE-ND	1.77	1.53	1.04	976-015-010R031
25		976-25RPE-ND	2.05	1.77	1.21	976-025-010R031
37		976-37RPE-ND	2.19	1.89	1.29	976-037-010R031

957 Series – Gender Changer Backshell

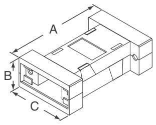

- Snap together design allows low cost assembly
- 4 ~ 40 Mating screw for male connectors supplied with backshell
- 4 ~ 40 female coupling for females connectors sold separately
- Internal cavity designed for PCB

9/25 Adapter

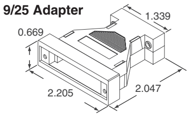

Connector Size	Dimensions – Inch A	B	C
9	2.083	0.653	0.984
15	2.047	0.630	1.311
25	2.087	0.638	1.852

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Black Plastic	957-0911E-ND	1.43	.92	.69	957-009-010R011
15		957-1511E-ND	1.55	.97	.74	957-015-010R011
9/25		957-92511E-ND	1.55	.97	.74	957-925-010R011
25		957-2511E-ND	1.55	.97	.74	957-025-010R011
9	Grey Plastic	957-0931E-ND	1.43	.92	.69	957-009-010R031
15		957-1531E-ND	1.55	.97	.74	957-015-010R031
9/25		957-92531E-ND	1.55	.97	.74	957-925-010R031
25		957-2531E-ND	1.55	.97	.74	957-025-010R031
9	Metalized Plastic	957-0921E-ND	2.18	1.46	1.15	957-009-020R121
15		957-1521E-ND	2.34	1.59	1.23	957-015-020R121
9/25		957-92521E-ND	2.34	1.59	1.23	957-925-020R121
25		957-2521E-ND	2.34	1.59	1.23	957-025-020R121

983 Series – Plain Plastic or Metalized Plastic

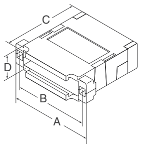

- May be used as a "Gender Changer," pin-out changer, or standard backshell
- Snap-together assembly
- Half-clamp with self-tapping screws provides positive strain-relief
- Available in plain plastic or metalized for EMI/RFI shielding

Connector Size	Dimensions – Inch A	B	C	D	Max. Cable Dia.
9	1.25	.98	1.92	.65	.27
15	1.56	1.31	1.92	.63	.47
25	2.12	1.85	1.92	.63	.47
37	2.75	2.50	1.92	.63	.47
50	2.75	2.40	1.92	.75	.47

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
37	Plain Plastic	937P-ND	2.78	2.40	1.64	983-037-010-031
25	Metalized Plastic	925M2-ND	2.37	2.05	1.39	983-025-020-121
50		950M2-ND	3.77	3.25	2.21	983-050-020-121
RoHS Compliant						
9	Plain Plastic	909PE-ND	1.34	1.16	.79	983-009-010R031
15		915PE-ND	1.60	1.39	.95	983-015-010R031
25		925PE-ND	1.92	1.66	1.13	983-025-010R031
37		937PE-ND	3.26	2.82	1.92	983-037-010R031
50		950PE-ND	3.44	2.97	2.02	983-050-010R031
9	Metalized Plastic	909M2E-ND	2.11	1.82	1.24	983-009-020R121
15		915M2E-ND	2.26	1.95	1.33	983-015-020R121
25		925M2E-ND	2.89	2.49	1.70	983-025-020R121
37		937M2E-ND	3.75	3.23	2.20	983-037-020R121
50		950M2E-ND	4.60	3.97	2.70	983-050-020R121

D-Sub Backshell Design Kit

Each kit contains a backshell from several different Norcomp backshell series, and a quick reference guide. The data sheet for each kit has a detailed list of what backshells are included.

Type	Digi-Key Part No.	Price Each
Plastic	DESIGNKIT-010-ND	47.25
Metalized Plastic	DESIGNKIT-020-ND	47.25
Die Cast	DESIGNKIT-030-ND	47.25

Non-Conductive Rubber Grommet Sets

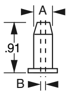

For better EMI/RFI Shielding and/or strain relief. For use with D-Sub Backshells. **Note:** Grom-9/25 and Grom-50 have four grommets per set and Grom-37 has three per set.

Description	Outside Dia. A (Inch)	Inside Dia. B (Inch)			
9/25	.400	.185	.248	.290	.335
37	.620	.320	.410	.500	—
50	.730	.340	.425	.495	.650

Description	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
DB 37 Grom. Set	902G-ND	1.06	.92	.63	162-000-037-000
DB 50 Grom. Set	903G-ND	1.45	1.25	.85	162-000-050-000
RoHS Compliant					
DB 9/25 Grom. Set	901GA-ND	.46	.40	.28	162-000-925R000
DB 37 Grom. Set	902GA-ND	1.17	1.01	.69	162-000-037R000
DB 50 Grom. Set	903GA-ND	1.54	1.33	.91	162-000-050R000

112 Series – Solder Cup Connector with Right Angle Backshell (Centronics Type)

Material:

- **Insulator:** Glass-filled thermoplastic, UL Rated 94V-0.
- **Contacts:** Copper alloy.
- **Shell:** Steel, nickel plated.
- **Contact Plating:** Gold plated.

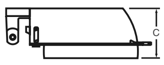

Connector Size	Dimensions – Inch A	B	C	D
50	3.780	2.538	1.325	.646

Fig. 1

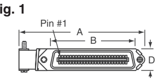

Fig. 2

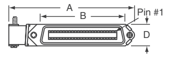

Fig. 3

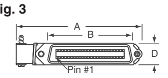

Fig. 4

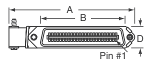

Fig.	No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
1	50	Male	1550RM-ND	9.19	7.93	5.39	112-050-103-011
2	50	Female	1550RF-ND	9.19	7.93	5.39	112-050-203-011
3	50	Female	1550LF-ND	9.19	7.93	5.39	112-050-203-021
RoHS Compliant							
1	50	Male	1550RMA-ND	8.92	7.70	5.24	112-050-103L011
2	50	Female	1550RFA-ND	8.92	7.70	5.24	112-050-203L011
3	50	Female	1550LFA-ND	8.92	7.70	5.24	112-050-203L021
4	50	Male	1550LMA-ND	9.46	8.16	5.55	112-050-103L021

955 Series – Quick Lock and Quick Release Post Kits

- New locking system allows single hand removal / mating with secure latching. Ideal for high vibration environments
- 9 and 15 position allows 2-way cable exit
- 25 and 37 position allows 3-way cable exit
- 2 piece grommet with various I.D.s included
- Quick Locks Require Quick Release Post Kits

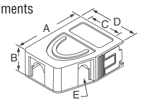

Conn. Size	Dimensions – Inch A	B	C	D	E
9	1.740	0.606	0.984	1.299	0.354
15	1.740	0.606	1.312	1.626	0.354
25	1.740	0.606	1.852	2.165	0.433
37	1.740	0.606	2.500	2.815	0.433

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Quick Locks						
9	Black Plastic	955-09QPE-ND	6.01	4.39	3.59	955-009-010R011
15		955-15QPE-ND	6.29	4.60	3.76	955-015-010R011
25		955-25QPE-ND	6.42	4.70	3.83	955-025-010R011
37		955-37QPE-ND	8.23	6.18	5.15	955-037-010R011
9	Metalized Plastic	955-09QMPE-ND	8.78	6.59	5.49	955-009-020R121
15		955-15QMPE-ND	9.43	7.08	5.90	955-015-020R121
25		955-25QMPE-ND	10.06	7.34	6.29	955-025-020R121
37		955-37QMPE-ND	13.10	10.07	8.44	955-037-020R121
9	Die Cast	955-09QCE-ND	19.45	15.28	13.20	955-009-030R121
15		955-15QCE-ND	20.54	16.14	13.94	955-015-030R121
25		955-25QCE-ND	20.38	16.61	14.27	955-025-030R121
37		955-37QCE-ND	29.06	23.69	20.35	955-037-030R121
Quick Release Post Kits (See Note)						
QLOCKPOST-1-ND						$2.67
QLOCKPOST-2-ND						$2.69
QLOCKPOST-3-ND						$3.80
QLOCKPOST-5-ND						$3.80
QLOCKPOST-6-ND						$3.80

Note: See Data Sheets for Dimension Specifications

NORCOMP Hardware

A DIVISION OF EDAC (AMERICA) LIMITED

Fig. 1

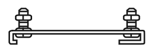

Fig. 2

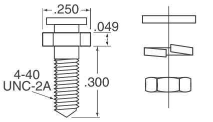

Fig. 3

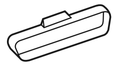

Fig. 4

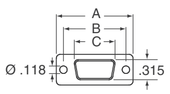

Fig. 5

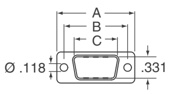

Fig. 6

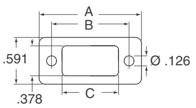

Fig. 7

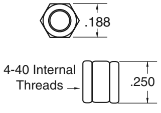

Fig. 8

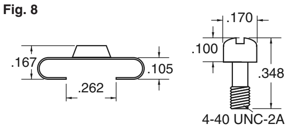

Fig. 9

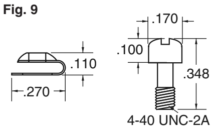

Fig. 10

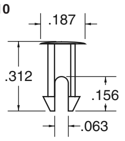

Fig. 11

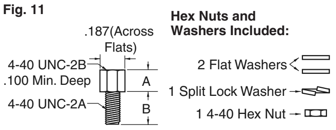

Fig. 12

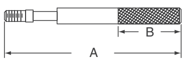

Fig.	Description	Dim. - Inch A	B	C	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
	Slide Lock Posts for Ethernet Hood (980, 981 and 994 Series)								
1	9-Pin, D-Sub or Ethernet	—	—	—	160-09SL-ND	1.77	1.53	1.04	160-009-002-031
	9-Pin, D-Sub or Ethernet	—	—	—	160-09SLA-ND◆	1.78	1.54	1.05	160-009-002R031
	15-Pin, D-Sub or Ethernet	—	—	—	T2040A-ND◆	1.42	1.22	.83	160-015-003R031
	25-Pin, D-Sub or Ethernet	—	—	—	160-25SLA-ND◆	2.12	1.83	1.25	160-025-004R031
2	2 Connectors Required	—	—	—	T2042A-ND◆	.74	.64	.44	160-000-005R031
	Dust Cover								
3	Female, 9-Position D-Sub	—	—	—	909DCA-ND◆	.57	.49	.34	160-000-209R000
	Female, 15-Position D-Sub	—	—	—	915DCA-ND◆	.86	.75	.51	160-000-215R000
	Female, 25-Position D-Sub	—	—	—	925DCA-ND◆	.55	.48	.33	160-000-225R000
	Female, 37-Position D-Sub	—	—	—	160-37FA-ND◆	.71	.61	.42	160-000-237R000
	Female, 50-Position D-Sub	—	—	—	160-50F-ND	.75	.65	.45	160-000-250-000
	Female, 50-Position D-Sub	—	—	—	160-50FA-ND◆	.80	.69	.47	160-000-250R000
3	Male, 9-Position D-Sub	—	—	—	160-09MA-ND◆	.58	.51	.35	160-000-109R000
	Male, 15-Position D-Sub	—	—	—	160-15MA-ND◆	.58	.51	.35	160-000-115R000
	Male, 25-Position D-Sub	—	—	—	160-25M-ND	.55	.48	.33	160-000-125-000
	Male, 25-Position D-Sub	—	—	—	160-25MA-ND◆	.61	.53	.37	160-000-125R000
	Male, 37-Position D-Sub	—	—	—	160-37MA-ND◆	.71	.61	.42	160-000-137R000
	Male, 50-Position D-Sub	—	—	—	160-50MA-ND◆	.80	.69	.47	160-000-150R000
	Shielded Dust Cover								
3	Female, 9-Position D-Sub	—	—	—	160-209F-ND	3.13	2.70	1.84	160-020-209-000
	Female, 9-Position D-Sub	—	—	—	160-209FA-ND◆	3.66	3.16	2.15	160-020-209R000
	Female, 15-Position D-Sub	—	—	—	160-215F-ND	3.28	2.83	1.93	160-020-215-000
	Female, 15-Position D-Sub	—	—	—	160-215FA-ND◆	3.81	3.29	2.24	160-020-215R000
	Female, 25-Position D-Sub	—	—	—	160-225F-ND	3.54	3.05	2.08	160-020-225-000
	Female, 25-Position D-Sub	—	—	—	160-225FA-ND◆	4.12	3.55	2.42	160-020-225R000
3	Male, 9-Position D-Sub	—	—	—	160-209M-ND	2.87	2.48	1.69	160-020-109-000
	Male, 9-Position D-Sub	—	—	—	160-209MA-ND◆	3.04	2.63	1.79	160-020-109R000
	Male, 15-Position D-Sub	—	—	—	160-215MA-ND◆	3.50	3.02	2.06	160-020-115R000
	Male, 25-Position D-Sub	—	—	—	160-225M-ND	3.22	2.78	1.89	160-020-125-000
	Male, 25-Position D-Sub	—	—	—	160-225MA-ND◆	3.75	3.24	2.20	160-020-125R000
	Cover Flange — RoHS Compliant								
4	Female, 9-Position D-Sub	1.209	.984	.642	CF09S-ND	2.54	1.72	1.33	CF09S
	Female, 15-Position D-Sub	1.535	1.312	.969	CF15S-ND	2.69	1.77	1.43	CF15S
	Female, 25-Position D-Sub	2.083	1.852	1.512	CF25S-ND	2.73	1.85	1.50	CF25S
	Female, 37-Position D-Sub	2.728	2.500	2.157	CF37S-ND	3.24	2.16	1.77	CF37S
	Female, 50-Position D-Sub	2.626	2.406	2.059	CF50S-ND	3.54	2.44	1.99	CF50S
5	Male, 9-Position D-Sub	1.205	.984	.669	CF09P-ND	2.54	1.72	1.33	CF09P
	Male, 15-Position D-Sub	1.535	1.312	.996	CF15P-ND	2.69	1.77	1.43	CF15P
	Male, 25-Position D-Sub	2.079	1.852	1.535	CF25P-ND	2.73	1.85	1.50	CF25P
	Male, 37-Position D-Sub	2.724	2.500	2.181	CF37P-ND	3.24	2.16	1.77	CF37P
	Male, 50-Position D-Sub	2.626	2.406	2.079	CF50P-ND	3.54	2.44	1.99	CF50P
	Silicon Sealing Flange — RoHS Compliant								
6	9-Position	1.299	.984	.717	SF09-ND	1.04	.68	.49	SF09
	15-Position	1.614	1.311	1.039	SF15-ND	1.25	.80	.58	SF15
	25-Position	2.165	1.850	1.583	SF25-ND	1.33	.82	.62	SF25
	37-Position	2.835	2.500	2.228	SF37-ND	1.48	.96	.70	SF37
	4-40 Female Coupling Nut — RoHS Compliant								
7	Brass Finish, Yellow Chromate Plated	—	—	—	160-106YCA-ND	.38	.22	.14	160-000-006R042
	Brass Finish, Nickel Plated	—	—	—	160-06YCA-ND	.19	.16	.11	160-000-006R032
	4-40 Male Screwlock with Slip-On Retainer — RoHS Compliant								
8	Steel Finish, Nickel Plated	—	—	—	160-01MYCA-ND	1.20	1.04	.71	160-000-001R031
	4-40 Male Screwlock with Clip-On Retainer (2 screws, 2 clips) — RoHS Compliant								
9	Screw - Steel, Nickel Plated, Clip - Stainless Steel	—	—	—	160-02MA-ND	.86	.75	.51	160-000-002R031
	Plastic Clips for Retaining Connectors to PC .062” Board								
10	Nylon	—	—	—	163-01P-ND	.25	.15	.11	163-001-000-000
	4-40 Female Screwlock Assembly — RoHS Compliant								
11	Steel Finish, Nickel Plated	.187	.312	—	160-10FA-ND	.74	.64	.44	160-000-010R031
		.187	.625	—	160-11FA-ND	.98	.85	.58	160-000-011R031
		.250	.156	—	160-12FA-ND	.80	.69	.47	160-000-012R031
		.197	.197	—	160-13FA-ND	.71	.61	.42	160-000-013R031
		.197	.236	—	160-14FA-ND	.68	.59	.40	160-000-014R031
		.197	.323	—	160-15FA-ND	.68	.59	.40	160-000-015R031
		.197	.433	—	160-16FA-ND	.80	.69	.47	160-000-016R031
		.197	.520	—	160-17FA-ND	.68	.59	.40	160-000-017R031
		.197	.669	—	160-18FA-ND	.95	.83	.56	160-000-018R031
	4-40 Female Screwlock — RoHS Compliant								
11	Steel Finish, Nickel Plated	.187	.312	—	SFSO4401NR-ND†	.45	.26	.17	SFSO4401NR
		.197	.197	—	SFSO4404NR-ND†	.45	.26	.17	SFSO4404NR
	4-40 Thumbscrew — Steel Finish, Nickel Plated — RoHS Compliant								
12	For 977/ 978/ 979 Series Backshells	1.75	.625	—	160-02TSA-ND	.25	.22	.15	160-000-050R031
	M2.6 Thumbscrew — Steel Finish, Nickel Plated — RoHS Compliant								
12	For 970/ 972 Series Backshells	1.811	.360	—	160-03TSA-ND	.74	.64	.44	160-000-060R031
	Tool								
—	Insertion/Removal Tool				T2020-ND	9.07	—	—	180-901-170-000

◆ ***RoHS Compliant*** † Hex Nuts and Washers **NOT** Included

Parallel Interface Connectors (Centronics Type)

Material: • **Insulator:** Glass filled thermoplastic, UL 94V-0 rated • **Shell:** Steel, Nickel plated • **Contacts:** Copper alloy, 10μ gold over 30μ nickel

Fig. 1

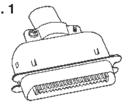

Male Cable Plug: • Compatible with industry standard • Solder Cup • Complete with cable boot, shell and hardware

Fig. 2

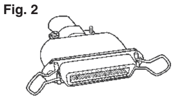

Female Cable Receptacle: • Compatible with industry standard • Complete with spring latches and cable boot • Solder Cup • Can be used as panel mount

Fig. 3

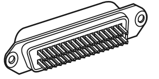

Panel Mount Male Plug: • 0.103” (2.62mm) Mounting hole accepts #3 screw (not included) • Compatible with industry standard • Solder Cup • Insulator color: Blue

Fig. 4

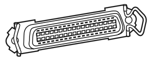

Panel Mount Female Receptacle: • Compatible with industry standard • Complete with spring latches • Solder Cup • Insulator color: Blue

Fig. 5

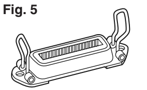

(Female Shown)

Straight DIP Solder: • For standard .062” (1.57mm) PC mount • Latch locks standard • Insulator color: Blue

Fig. 6

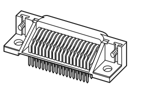

Right Angle PCB Mount: • Compatible with industry standard • Metal shell for EMI/RFI shielding • Insulator color: Blue

Fig. 7

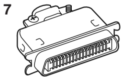

(Male Shown)

Discrete Wire IDC Solderless: • Compatible with standard terminating tools • Quick solderless termination for #24 or #26 AWG • Insulator color: Gray

Fig.	No. of Contacts	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
1	14	Male	T1501A-ND◆	3.94	3.40	2.31	110-014-103L001
	36		T1503A-ND◆	4.00	3.45	2.35	110-036-103L001
	50		T1504A-ND◆	7.08	6.11	4.16	110-050-103L001
2	14	Female	T1507A-ND◆	4.45	3.84	2.62	110-014-203L001
	36		T1509A-ND◆	5.05	4.36	2.97	110-036-203L001
	50		T1510A-ND◆	7.80	6.72	4.57	110-050-203L001
3	14	Male	1014M-ND	2.51	2.16	1.47	111-014-103-001
	14		1014MA-ND◆	2.72	2.35	1.60	111-014-103L001
	24		1024M-ND	2.69	2.33	1.58	111-024-103-001
	24		1024MA-ND◆	2.92	2.52	1.72	111-024-103L001
	36		1036M-ND	2.61	2.26	1.54	111-036-103-001
	36		1036MA-ND◆	2.83	2.44	1.66	111-036-103L001
	50		1050MA-ND◆	4.29	3.70	2.52	111-050-103L001
4	14	Female	1014FA-ND◆	2.86	2.47	1.68	111-014-203L001
	24		1024F-ND	4.26	3.68	2.50	111-024-203-001
	24		1024FA-ND◆	4.70	4.06	2.76	111-024-203L001
	36		1036FA-ND◆	3.39	2.93	1.99	111-036-203L001
	50		1050FA-ND◆	5.36	4.62	3.14	111-050-203L001
5	14	Male	1014PMA-ND◆	3.38	2.92	1.99	111-014-113L001
	24		1024PM-ND	4.52	3.90	2.66	111-024-113-001
	24		1024PMA-ND◆	5.14	4.44	3.02	111-024-113L001
	36		1036PM-ND	4.88	4.21	2.86	111-036-113-001
5	36	Male	1036PMA-ND◆	5.55	4.79	3.26	111-036-113L001
	50		1050PMA-ND◆	6.21	5.35	3.64	111-050-113L001
	14	Female	1014PFA-ND◆	3.13	2.70	1.84	111-014-213L001
	24		1024PF-ND	2.97	2.57	1.75	111-024-213-001
	24		1024PFA-ND◆	3.38	2.92	1.99	111-024-213L001
	36		1036PFA-ND◆	4.98	4.30	2.92	111-036-213L001
	50		1050PFA-ND◆	7.72	6.66	4.53	111-050-213L001
6	14	Male	1014RM-ND	3.18	2.74	1.87	112-014-113-001
	14		1014RMA-ND◆	5.33	3.90	3.18	112-014-113R001
	24		1024RM-ND	3.58	3.09	2.10	112-024-113-001
	24		1024RMA-ND◆	4.92	3.50	2.87	112-024-113R001
	36		1036RMA-ND◆	6.04	5.21	3.55	112-036-113R001
	50		1050RM-ND	6.39	5.51	3.75	112-050-113-001
	50		1050RMA-ND◆	7.26	6.27	4.26	112-050-113R001
	14	Female	1014RF-ND	3.69	3.19	2.17	112-014-213-001
	14		1014RFA-ND◆	5.43	3.98	3.24	112-014-213R001
	24		1024RFA-ND◆	5.09	3.70	2.96	112-024-213R001
	36		1036RFA-ND◆	5.30	4.58	3.11	112-036-213R001
	50		1050RF-ND	6.68	5.76	3.92	112-050-213-001
	50		1050RFA-ND◆	7.60	6.56	4.46	112-050-213R001
7	36	Male	1036CM-ND	10.18	8.78	5.97	110-036-193-001

◆ ***RoHS Compliant***

D-Sub Connectors

The dimensions of **CONEC**® D-subminiature connectors are according to DIN 41652 and to MIL-C-24308. The Subminiature Connectors consist of a plug and socket connector and conform to IEC standard 48 B. These connectors are used in industrial control systems, computer environment and in telecommunication equipment. Precision screw machine contacts are gold plated over nickel. The product line is UL (E202784), CSA (LR 115000-1) and VDE (40000440) approved. The trapezoidal shaped shell is used for mechanical protection, electrical shielding and polarization. The CONEC connectors consist of plug and socket connectors with two or three rows. They are compatible and interchangeable with all D-Subminiature connectors on the market. **Technical Data: • Insulators:** Polyester GF UL 94 V-0 **• Contacts:** Copper Alloy **• Contact Finish:** Hard-gold-plated over nickel **• Shell:** Steel tin plated **• Working Voltage:** 125V (D-Subminiature Standard 9,15, 25, 37 and 50 position); 60V (D-Subminiature High Density 15, 26 and 44 position) **• Current Rating:** 7.5A UL (D-Subminiature Standard 9,15, 25, 37 and 50 position); 3.0A UL (D-Subminiature High Density 15, 26 and 44 position) **• Insulation Resistance:** 5G Ω **• Operating Temperature:** -55°C ~ 125°C

Fig. 1

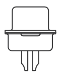

Fig. 2

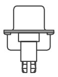

Fig. 3

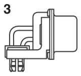

Fig. 4

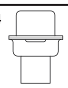

Fig. 5

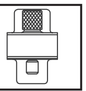

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Fig. 1 — Solder Cup						
9	Male	626-1026-ND	2.98	2.02	1.59	163A11069X
9	Female	626-1031-ND	3.30	2.20	1.80	164A10019X
15	Male	626-1027-ND	3.51	2.34	1.91	163A11079X
15	Female	626-1032-ND	4.32	2.98	2.43	164A10029X
25	Male	626-1028-ND	4.23	2.92	2.38	163A11089X
25	Female	626-1033-ND	5.36	3.92	3.20	164A10039X
37	Male	626-1029-ND	5.59	4.09	3.34	163A11099X
37	Female	626-1034-ND	7.35	5.44	4.50	164A10049X
50	Male	626-1030-ND	6.35	4.70	3.89	163A11109X
50	Female	626-1035-ND	9.24	6.93	5.78	164A10059X
Fig. 1 — Solder Cup with 4-40 Insert						
9	Male	626-1036-ND	3.18	2.12	1.73	163A11269X
9	Female	626-1041-ND	3.68	2.54	2.08	164A10219X
15	Male	626-1037-ND	3.89	2.68	2.19	163A11279X
15	Female	626-1042-ND	4.62	3.22	2.64	164A10229X
25	Male	626-1038-ND	4.21	2.90	2.37	163A11289X
25	Female	626-1043-ND	5.80	4.24	3.46	164A10239X
37	Male	626-1039-ND	6.01	4.39	3.59	163A11299X
37	Female	626-1044-ND	7.73	5.57	4.64	164A10249X
50	Male	626-1040-ND	6.80	5.04	4.17	163A11309X
50	Female	626-1045-ND	9.67	7.06	6.05	164A10259X
Fig. 1 — Solder Cup High Density with 4-40 Insert						
15	Male	626-1046-ND	4.81	3.42	2.80	163A16649X
15	Female	626-1049-ND	5.93	4.34	3.54	164A17059X
26	Male	626-1047-ND	6.80	5.04	4.17	163A16659X
26	Female	626-1050-ND	8.50	6.38	5.31	164A17069X
44	Male	626-1048-ND	9.50	7.13	5.94	163A16669X
44	Female	626-1051-ND	11.84	9.10	7.63	164A17079X
Fig. 2 — PC Mount Vertical with 4-40 Spacer Clip						
9	Female	626-1052-ND	4.87	3.40	2.79	164A16569X
15	Female	626-1053-ND	5.38	3.94	3.21	164A16579X
25	Female	626-1054-ND	6.28	4.65	3.85	164A16589X
Fig. 3 — PC Mount Right Angle with 4-40 Insert						
9	Male	626-1055-ND	6.65	4.93	4.07	163A17529X
9	Female	626-1058-ND	6.95	5.15	4.26	164A17939X
15	Male	626-1056-ND	8.06	6.05	5.04	163A17539X
15	Female	626-1059-ND	8.54	6.41	5.34	164A17949X
25	Male	626-1057-ND	10.10	7.69	6.59	163A17549X
25	Female	626-1060-ND	10.76	8.19	7.02	164A17959X
Fig. 3 — High Density PC Mount Right Angle with 4-40 Insert						
15	Male	626-1061-ND	11.20	8.53	7.31	163A17769X
15	Female	626-1062-ND	12.83	9.87	8.27	164A18179X
Fig. 4 — Crimp Shell						
9	Male	626-1063-ND	1.62	1.04	.79	163X10019X
9	Female	626-1068-ND	1.86	1.20	.92	164X11769X
15	Male	626-1064-ND	1.89	1.22	.94	163X10029X
15	Female	626-1069-ND	1.97	1.31	1.01	164X11779X
25	Male	626-1065-ND	1.66	1.06	.81	163X10039X
25	Female	626-1070-ND	2.11	1.37	1.08	164X11789X
37	Male	626-1066-ND	2.54	1.72	1.33	163X10049X
37	Female	626-1071-ND	2.69	1.77	1.43	164X11799X
50	Male	626-1067-ND	3.30	2.20	1.80	163X10059X
50	Female	626-1072-ND	3.30	2.20	1.80	164X11809X

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Fig. 4 — High Density Crimp Shell						
15	Male	626-1077-ND	3.21	2.14	1.75	163X10169X
15	Female	626-1080-ND	3.92	2.70	2.21	164X11949X
26	Male	626-1078-ND	3.92	2.70	2.21	163X10179X
26	Female	626-1081-ND	4.26	2.97	2.44	164X11959X
44	Male	626-1079-ND	2.73	1.85	1.50	163X10189X
44	Female	626-1082-ND	3.71	2.56	2.09	164X11969X

AWG	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Standard Density Crimp Contacts						
20 ~ 24	Male	626-1073-ND	.49	.28	.19	161A18299X
	Female	626-1075-ND	1.00	.65	.47	162A18709X
24 ~ 28	Male	626-1074-ND	.56	.33	.22	161A18309X
	Female	626-1076-ND	1.12	.70	.52	162A18719X
High Density Crimp Contacts						
22	Male	626-1083-ND	.36	.20	.14	161A18009X
	Female	626-1084-ND	.46	.28	.19	162A18419X

Tools

Description	Digi-Key Part No.	Price Each	CONEC Part No.
Hand Crimp Tool	626-1283-ND	501.47	360X10329X
Insert/Positioner, Standard Density	626-1285-ND	88.77	360X20069X
Insert/Positioner, High Density	626-1284-ND	104.92	360X10629X
Extraction Tool for Std. Density Crimp Contacts	626-1282-ND	14.81	360X12009X
Extraction Tool for High Density Crimp Contacts	626-1286-ND	137.79	360X10339X

Filtered D-Sub Connectors

CONEC® Filter Connectors are the ideal solution to reduce or eliminate electro magnetic interference (EMI/RFI). The complete series are UL (E 202784 CSA (LR 115000-1 and VDE (40000441) approved. **Technical Data: • Insulators:** Polyester GF UL 94 V-0 **• Contacts:** Copper Alloy **• Contact Finish:** Gold over nickel, solder area tin plated **• Shell:** Steel tin plated **• Insulation Resistance:** ≥1GΩ @ 100 VDC **• Current Rating:** 5.0A (20°C), Standard D-Sub 9, 15 and 25 positions; 3.0A (20°C), High Density D-Sub 15 positions **• Temperature Range Working:** -25°C ~ 105°C, Standard D-Sub 9, 15 and 25 positions; -25°C ~ 85°C, High Density D-Sub 15 positions

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Fig. 1 — Solder Cup						
9	Male	626-1004-ND	9.22	6.92	5.76	241A26960X
9	Female	626-1007-ND	9.50	7.13	5.94	242A26860X
15	Male	626-1005-ND	11.70	9.00	7.54	241A26970X
15	Female	626-1008-ND	12.40	9.54	7.99	242A26870X
25	Male	626-1006-ND	14.85	11.68	9.79	241A26980X
25	Female	626-1009-ND	15.86	12.26	10.46	242A26880X
Fig. 1 — Solder Cup with 4-40 Insert						
9	Male	626-1010-ND	11.11	8.46	7.25	241A27120X
9	Female	626-1013-ND	11.36	8.65	7.41	242A27020X
15	Male	626-1011-ND	13.77	10.83	9.08	241A27130X
15	Female	626-1014-ND	14.43	11.35	9.52	242A27030X
25	Male	626-1012-ND	17.47	13.50	11.32	241A27140X
25	Female	626-1015-ND	17.56	14.22	11.92	242A27040X
Fig. 2 — PCB Mount Vertical with 4-40 Spacer Clip						
9	Female	626-1016-ND	11.63	8.95	7.50	242A15030X
15	Female	626-1017-ND	14.21	11.18	9.37	242A15040X
25	Female	626-1018-ND	21.72	17.71	15.21	242A15050X
Fig. 3 — PCB Mount Right Angle with 4-40 Insert						
9	Male	626-1020-ND	12.08	9.29	7.79	241A16060X
9	Female	626-1023-ND	13.86	10.90	9.14	242A17660X
15	Male	626-1021-ND	14.43	11.35	9.52	241A16070X
15	Female	626-1024-ND	16.10	12.45	10.62	242A17670X
25	Male	626-1022-ND	17.93	14.52	12.17	241A16080X
25	Female	626-1025-ND	20.52	16.13	13.93	242A17680X
Fig. 5 — D-Sub C-Filter Adapter						
9	—	626-1000-ND	12.40	9.54	7.99	243A10050X
15	—	626-1001-ND	14.30	11.25	9.43	243A10060X
25	—	626-1002-ND	17.47	14.15	11.86	243A10070X

Hardware

Fig. 1

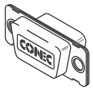

Fig. 2

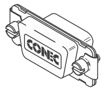

Fig. 3

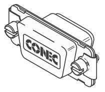

Fig. 4

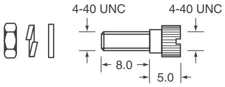

Fig. 5

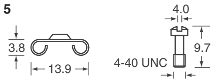

Fig. 6

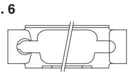

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
D-Sub Covers						
1	Male, 9-Pos.	626-1241-ND	1.46	.94	.71	165X13129X
	Female, 9-Pos.	626-1238-ND	1.52	.99	.72	165X12969X
	Male, 15-Pos.	626-1242-ND	1.48	.96	.70	165X13139X
	Female, 15-Pos.	626-1239-ND	1.52	.99	.72	165X12979X
	Male, 25-Pos.	626-1243-ND	1.69	1.09	.83	165X13149X
	Female, 25-Pos.	626-1240-ND	1.48	.96	.70	165X12989X
2	Male with Flange, 9-Pos.	626-1247-ND	2.15	1.43	1.13	165X16769X
	Female with Flange, 9-Pos.	626-1244-ND	2.21	1.48	1.16	165X16719X
	Male with Flange, 15-Pos.	626-1248-ND	2.37	1.61	1.25	165X16779X
	Female with Flange, 15-Pos.	626-1245-ND	2.44	1.65	1.28	165X16729X
	Male with Flange, 25-Pos.	626-1249-ND	2.37	1.61	1.25	165X16789X
	Female with Flange, 25-Pos.	626-1246-ND	2.18	1.46	1.15	165X16739X
Hood - Water Resistant, Shielded for EMI/RFI						
3	Male with Flange, 9-Pos.	626-1253-ND	5.93	4.34	3.54	165X14769X
	Female with Flange, 9-Pos.	626-1250-ND	6.33	4.69	3.88	165X14719X
	Male with Flange, 15-Pos.	626-1254-ND	5.64	4.13	3.37	165X14779X
	Female with Flange, 15-Pos.	626-1251-ND	6.40	4.68	3.82	165X14729X

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
3	Male with Flange, 25-Pos.	626-1255-ND	5.51	4.03	3.29	165X14789X
	Female with Flange, 25-Pos.	626-1252-ND	6.21	4.55	3.71	165X14739X
Screw Locking (2 Screws, 2 Washers, 2 Spring Rings, and 2 Nuts)						
4	Screw Locking 4-40 UNC/13mm	626-1256-ND	.88	.58	.42	160X10359X
	Screw Locking Bolt Set Packed	626-1257-ND	2.38	1.59	1.25	160X10329X
D-Sub Clamp (2 Clamps, 2 Screws)						
5	Steel Nickel Plated	626-1258-ND	.92	.60	.44	160X10259X
Slide Lock Kits						
6	9-Pos. (1 Frame, 2 Self-tapping Screws)	626-1259-ND	2.07	1.35	1.06	160X10159X
	15-Pos. (1 Frame, 2 Self-tapping Screws)	626-1260-ND	2.28	1.54	1.19	160X10169X
	9-Pos. (1 Frame, 2 Screws UNC 4-40, 2 Washers, 2 Nuts UNC 4-40)	626-1262-ND	2.24	1.50	1.18	160X10689X
	15-Pos. (1 Frame, 2 Screws UNC 4-40, 2 Washers, 2 Nuts UNC 4-40)	626-1263-ND	2.21	1.48	1.16	160X10699X
	25-Pos. (1 Frame, 2 Screws UNC 4-40, 2 Washers, 2 Nuts UNC 4-40)	626-1264-ND	2.15	1.43	1.13	160X10709X
—	Slide Lock Bolt (set of 2)	626-1265-ND	.88	.58	.42	160X10209X
	Slide Lock, Nickel Plated	626-1221-ND	.69	.41	.28	165X10119X

CONEC®
TECHNOLOGY IN CONNECTORS™

D-Sub Backshells

The increasing market and the many different applications require a large selection of hoods. **CONEC®** manufactures one of the largest selection of products in the industry. **CONEC** hoods are also UL (E202784) and CSA (LR 115000-1) approved.

Metal Hood with Straight Exit: EMI/RFI Shielding and Jack Screws

Specifications: • **Material and Finish:** Zinc Die Cast, Nickel Plated • **Cable Strain Relief:** Steel Fibre Reinforced Polycarbonate UL 94 V-0 • **Temperature Range:** -40°C ~ 120°C

No. of Pins	Dimensions – mm		
	A	B	C
9	31.0	25.0	40.7
15	39.5	33.3	42.9
25	53.4	47.0	49.7
37	70.9	63.5	54.6

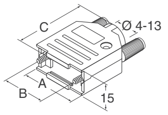

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Metal-lized	626-1176-ND	5.75	4.20	3.43	165X02609XE
15		626-1177-ND	6.80	5.04	4.17	165X02619XE
25		626-1178-ND	6.88	5.09	4.21	165X02629XE
37		626-1179-ND	8.66	6.50	5.42	165X02639XE

45° Metallized with Side Exit: EMI/RFI Shielding with Jack Screws

Specifications: • **Material and Finish:** Zinc Die Cast, Nickel Plated • **Cable Strain Relief:** Steel Fibre Reinforced Polycarbonate UL 94 V-0 • **Temperature Range:** -40°C ~ 120°C

No. of Pins	Dimensions – mm		
	A	B	C
9	31.0	25.0	37.2
15	39.5	33.3	41.2
25	53.2	47.0	41.2
37	69.7	63.5	41.2

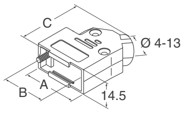

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	45° Metal-lized	626-1180-ND	5.75	4.20	3.43	165X02689XE
15		626-1181-ND	5.80	4.24	3.46	165X02699XE
25		626-1182-ND	5.90	4.32	3.52	165X02709XE
37		626-1183-ND	8.66	6.50	5.42	165X02719XE

Plastic Hood 45° Black: Shielded Version with Metal Screw

Specifications: • **Hood:** PC GF 20 UL 94 V-0; Black • **Full Metal Screw:** Ms 58 Hard, Nickel Plated • **Cable Clamp**: Cu Ni 18 An 20 • **Screw for Cable Clamp:** Steel, Nickel Plated

No. of Pins	Dimensions – mm				
	A	B	C±0.2	D	øE
9	31.20	25.0	40.95	15.0	8.0
15	39.52	33.3	41.95	15.0	9.0

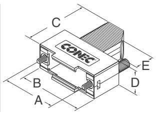

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	45°	626-1184-ND	8.08	5.82	4.85	165X00779XE
15		626-1185-ND	9.48	7.11	5.93	165X00789XE

Plastic Hood with Straight Exit: Straight Cable Exit with Jack Screws

Specifications: **Black:** • **Hood:** Polyamid + GF/Black • **Jackscrew:** Brass, nickel plated • **Nut:** Brass, Nickel Plated • **Strain Relief:** Steel • **Pan-Head Screw:** Brass, Nickel Plated • **Countersunk-Head Screw:** Brass, Nickel Plated **Metallized:** • **Hood:** ABS V0. Metallized • **Cable Strain Relief:** Steel, Nickel Plated • **Jack Screw:** Brass, Nickel Plated • **Countersunk-Head Screw:** Steel, Nickel Plated

No. of Pins	Dimensions – mm				
	A	B	C	D	E
9	34.0	25.0	27.75	14.5	8.5
15	42.3	33.3	39.75	14.5	10.0
25	56.0	47.0	39.75	14.5	10.5
37	72.5	63.5	39.75	14.5	10.5
50	70.0	61.1	50.00	21.0	10.5

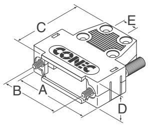

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Black	626-1187-ND	5.41	3.96	3.23	165X10139XE
15		626-1188-ND	5.41	3.96	3.23	165X10149XE
25		626-1189-ND	5.88	4.30	3.51	165X10159XE
37		626-1190-ND	6.30	4.67	3.86	165X10169XE
50		626-1191-ND	10.53	8.02	6.87	165X10179XE
9	Straight Metal-lized	626-1192-ND	8.00	5.76	4.80	165X10909XE
15		626-1193-ND	8.02	6.02	5.01	165X10919XE
25		626-1194-ND	8.45	6.34	5.28	165X10929XE

Plastic Hood Straight Black: Big space inside

Contents: • **1x Hood + Cover:** PBT UL 94 V-0, Black • **1x Press Insert:** PBT UL 94 V-0, Black • **2x Jackscrews:** Brass, Nickel Plated • **2x Screw for Strain Relief:** Steel, Zinc Plated • **2x Cover Screws:** Steel, Nickel Plated • **1x Strain Relief:** Steel, Nickel Plated

Specifications: • **Temperature Range:** -33°C ~ 90°C

No. of Pins	Dimensions – mm				
	A	B	C	D	øE
9	32.9	25.0	41.8	16.3	11.0
15	41.2	33.3	47.8	16.3	11.0
25	54.9	47.0	54.8	16.3	12.0
37	71.4	63.5	57.8	18.7	15.0
50	69.0	61.1	57.8	19.5	14.0

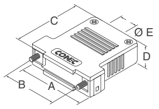

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Black	626-1195-ND	4.95	3.51	2.88	165X13369XE
15		626-1196-ND	5.20	3.69	3.03	165X13379XE
25		626-1197-ND	5.29	3.83	3.14	165X13389XE
37		626-1198-ND	6.08	4.45	3.63	165X13399XE
50		626-1199-ND	6.08	4.45	3.63	165X13409XE

Plastic Hood, 90° Black: With side cable exit, big space inside

Contents: • **1x Hood + Cover:** PBT UL 94 V-0, Black • **1x Press Insert:** PBT UL 94 V-0, Black • **2x Jackscrews:** Brass, Nickel Plated • **2x Screw for Strain Relief:** Steel, Zinc Plated • **2x Cover Screws:** Steel, Nickel Plated • **1x Strain Relief:** Steel, Nickel Plated

Specifications: • **Temperature Range:** -33°C ~ 90°C

No. of Pins	Dimensions – mm				
	A	B	C	D	øE
9	32.9	25.0	41.8	16.3	5.6
15	41.2	33.3	47.8	16.3	8.6
25	54.9	47.0	54.8	16.3	12.0
37	71.4	63.5	57.8	18.7	15.0
50	69.0	61.1	57.8	19.5	14.0

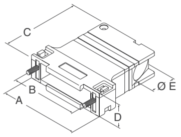

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	90° Black	626-1200-ND	4.95	3.51	2.88	165X13419XE
15		626-1201-ND	5.20	3.69	3.03	165X13429XE
25		626-1202-ND	5.29	3.83	3.14	165X13439XE
37		626-1203-ND	6.08	4.45	3.63	165X13449XE
50		626-1204-ND	6.08	4.45	3.63	165X13459XE

Plastic Hood, Black: Top and Side Exit with Jack Screws or Slide lock, big space inside

Dual Exit with Jack Screws: • **Hood + Cover:** ABS UL 94 V-0, Black • **Blind Plug:** ABS UL 94 V-0, Black • **Cable Strain Relief:** Steel, Nickel Plated • **Countersunk Head Screw:** Steel, Nickel Plated • **Jack Screw**: Brass, Nickel Plated

Dual Exit with Side-lock: • **Hood + Cover:** ABS UL 94 V-0, Black • **Blind Plug:** ABS UL 94 V-0, Black • **Cable Strain Relief:** Steel, Nickel Plated • **Spring:** Steel, Nickel Plated • **Side Lock:** Steel, Nickel Plated • **Screws**: Steel, Nickel Plated

Dual Exit, Metallized with Jack Screws: • **Hood + Cover:** ABS UL 94 V-0, Metallized • **Blind Plug:** ABS UL 94 V-0, Metallized • **Cable Strain Relief:** Steel, Nickel Plated • **Countersunk Head Screw:** Steel, Nickel Plated • **Jack Screw**: Brass, Nickel Plated

No. of Pins	Dimensions – mm				
	A	B	C	D	øE
9	32.0	25.0	39.7	15.5	7.5
15	40.0	33.3	41.2	15.5	9.5
25	54.2	47.0	45.2	15.5	12.0
37	70.6	63.5	50.2	15.5	14.0

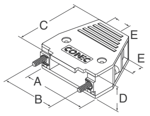

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Dual Exit Plastic Black	626-1209-ND	4.56	3.18	2.61	165X11239XE
15		626-1210-ND	4.40	3.07	2.52	165X11249XE
25		626-1211-ND	5.17	3.67	3.01	165X11259XE
37		626-1212-ND	5.43	3.98	3.24	165X11269XE
9	Dual Exit with Side-lock Black	626-1213-ND	6.28	4.65	3.85	165X11279XE
15		626-1214-ND	6.35	4.70	3.89	165X11289XE
25		626-1215-ND	6.78	5.02	4.15	165X11299XE
37		626-1216-ND	8.62	6.47	5.39	165X11309XE
15	Dual Exit Metallized	626-1218-ND	7.43	5.50	4.55	165X11329XE

Plastic Hood Gray: 9-Position with top cable exit, 15-50 Positions with side cable exit.

Specifications: • **Hood:** PC UL 94 V-1, Gray • **Hood Plug:** PC UL 94 V-1, Gray • **Jackscrew:** Brass, Nickel Plated • **Screw for Strain Relief:** Steel, Nickel Plated • **Cover Screw:** Steel, Nickel Plated • **Strain Relief:** Steel, Nickel Plated

No. of Pins	Dimensions – mm				
	A	B	C	D	øE
9	31.2	25.0	35.0	15.6	8.0
15	39.5	33.3	40.2	15.6	8.0
25	53.2	47.0	45.4	15.6	10.0
37	69.7	63.5	45.4	15.6	10.0

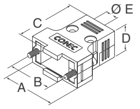

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Top Exit Gray	626-1205-ND	3.80	2.62	2.14	165X11869XE
15	Dual Exit Gray	626-1206-ND	3.60	2.48	2.03	165X11879XE
25		626-1207-ND	4.40	3.07	2.52	165X11889XE
37		626-1208-ND	4.56	3.18	2.61	165X11899XE

One Piece Plastic Hood: with Straight Entry

No. of Pins	Dimensions – mm			
	A	B	C	D
9	30.9	25.0	25.4	12.7
15	39.3	33.3	25.4	12.7
25	53.2	47.0	31.7	12.7
37	69.4	63.5	38.1	12.7
50	67.1	61.1	38.1	15.5

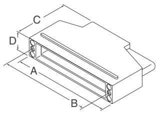

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Entry Black	626-1225-ND	4.23	2.95	2.42	165X10389XE
15		626-1226-ND	4.20	2.93	2.40	165X10399XE
25		626-1227-ND	4.23	2.95	2.42	165X10409XE
37		626-1228-ND	4.79	3.34	2.74	165X10419XE
50		626-1229-ND	5.46	3.99	3.26	165X10429XE

One Piece Plastic Hood: with Side Entry

No. of Pins	Dimensions – mm				
	A	B	C	D	øE
9	30.9	25.0	25.4	12.7	7.1
15	39.3	33.3	25.4	12.7	9.1
25	53.2	47.0	31.7	12.7	12.5 x 9.1*
37	69.4	63.5	38.1	12.7	17.6 x 9.1*
50	67.1	61.1	38.1	15.5	18.6 x 11.9*

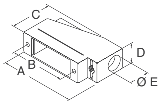

* cable entry is oval

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Side Entry Black	626-1230-ND	4.03	2.78	2.27	165X10439XE
15		626-1231-ND	4.34	3.03	2.48	165X10449XE
25		626-1232-ND	4.23	2.95	2.42	165X10459XE
37		626-1233-ND	5.16	3.73	3.06	165X10469XE
50		626-1234-ND	4.40	3.07	2.52	165X10479XE

Plastic Hoods

Fig. 1

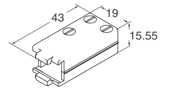

Fig. 2

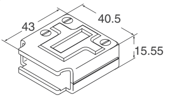

Fig. 3

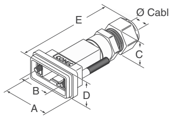

No. of Pins	Shell-size	Dimensions – mm					
		A	B	C	D	E	øCable
9	1	40.76	25.00	22.00	22.00	81.20	5-10
15	2	49.06	33.30	24.00	22.00	83.20	6-12
25	3	62.80	47.04	24.00	22.00	91.70	6-12

Fig.	No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
1	9	DL Entry Black	626-1235-ND	2.64	1.79	1.45	165X13219XE
2	25		626-1236-ND	2.66	1.75	1.42	165X13239XE
Water Resistant Hoods							
3	9	Black	626-1173-ND‡	16.28	12.58	10.73	165X14819XE
	15	Black	626-1174-ND‡	15.44	11.94	10.18	165X14829XE
	25	Black	626-1175-ND‡	15.88	12.28	10.47	165X14839XE
Assembly Tool			626-1322-ND	3.83	1.46	1.15	360X30009X

‡Tool required for assembly

CONEC®
TECHNOLOGY IN CONNECTORS™

Combination D-Sub Connectors

RoHS COMPLIANT

Combination D-Subminiature connectors are available in a variety of applications. The design allows a combination of signal, high current, high voltage and coaxial contacts. **Features:** • Saves Space • Cost factor, one item as compared to several different connectors • Contacts are screw machine type • The complete program is UL (E228329, UL 1977), UL (E202784, UL 1863), CSA (LR 115000-1) and VDE (40000440) approved **Specifications:** • Insulator: PBTP, GV (ULV94V-0) • Shell: Steel • Shell Plating: Tin Plated • Contact Plating: Gold over Nickel • Contact Material: Copper Alloy • Mating cycles: 500

Contact Arrangement

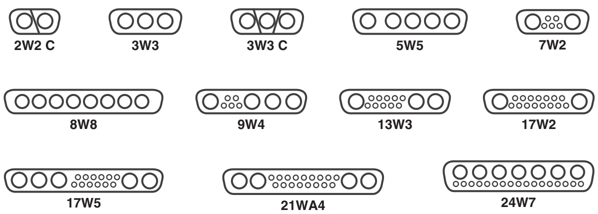

Fig. 1

Fig. 2

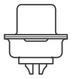

Fig. 3

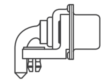

Contact Arrangement	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Fig. 1 — Crimp Style (Power Contacts Sold Separately)						
2W2 C	Male	626-1094-ND	1.97	1.31	1.01	302W2CPXX99A10X
2W2 C	Female	626-1093-ND	3.23	2.16	1.70	302W2CSXX99A10X
2W2 C	Female	626-1095-ND	4.51	2.97	2.40	302W2CSXX99A30X
3W3	Male	626-1102-ND	2.14	1.39	1.09	3003W3PXX99A10X
3W3	Female	626-1101-ND	2.15	1.43	1.13	3003W3SXX99A10X
3W3	Female	626-1103-ND	2.60	1.77	1.43	3003W3SXX99A30X
3W3 C	Male	626-1098-ND	2.14	1.39	1.09	303W3CPXX99A10X
3W3 C	Female	626-1097-ND	2.07	1.35	1.06	303W3CSXX99A10X
3W3 C	Female	626-1099-ND	3.01	1.98	1.60	303W3CSXX99A30X
5W5	Male	626-1106-ND	3.20	2.07	1.63	3005W5PXX99A10X
5W5	Female	626-1105-ND	2.96	2.01	1.55	3005W5SXX99A10X
5W5	Female	626-1107-ND	2.88	1.96	1.54	3005W5SXX99A30X
8W8	Male	626-1110-ND	2.57	1.74	1.35	3008W8PXX99A10X
8W8	Female	626-1109-ND	2.62	1.73	1.40	3008W8SXX99A10X
8W8	Female	626-1111-ND	3.42	2.28	1.86	3008W8SXX99A30X
Fig. 2 — Solder Cup (Power Contacts Sold Separately)						
7W2	Male	626-1114-ND	3.24	2.16	1.77	3007W2PCM99A10X
7W2	Female	626-1113-ND	6.29	4.34	3.54	3007W2SCM99A10X
7W2	Female	626-1115-ND	7.51	5.06	4.23	3007W2SCM99A30X
9W4	Male	626-1118-ND	3.03	2.02	1.65	3009W4PCM99A10X
9W4	Female	626-1117-ND	3.97	2.74	2.24	3009W4SCM99A10X
13W3	Male	626-1126-ND	4.20	2.93	2.40	3013W3PCM99A10X
13W3	Female	626-1125-ND	5.56	4.07	3.32	3013W3SCM99A10X
17W2	Male	626-1122-ND	5.03	3.57	2.93	3017W2PCM99A10X
17W2	Female	626-1121-ND	8.23	6.09	5.04	3017W2SCM99A10X
17W5	Male	626-1130-ND	8.83	6.26	5.14	3017W5PCM99A10X
17W5	Female	626-1129-ND	9.98	7.30	5.96	3017W5SCM99A10X
21WA4	Male	626-1134-ND	5.80	4.24	3.46	321WA4PCM99A10X
21WA4	Female	626-1133-ND	7.53	5.42	4.61	321WA4SCM99A10X
24W7	Male	626-1138-ND	5.93	4.34	3.54	3024W7PCM99A10X
24W7	Female	626-1137-ND	7.60	5.48	4.56	3024W7SCM99A10X
Fig. 3 — PC Mount - Right Angle						
2W2 C	Female	626-1096-ND	8.63	6.39	5.28	302W2CSXX56N40X
3W3		626-1104-ND	11.11	8.34	6.95	3003W3SXX56N40X
3W3 C		626-1100-ND	10.49	7.87	6.56	303W3CSXX56N40X
5W5		626-1108-ND	12.17	9.26	7.94	3005W5SXX56N40X
7W2		626-1116-ND	15.84	11.88	9.90	3007W2SCT56N40X
8W8	Female	626-1112-ND	17.31	13.38	11.42	3008W8SXX56N40X
9W4		626-1120-ND	12.08	9.29	7.79	3009W4SCT56N40X
13W3		626-1128-ND	12.47	9.59	8.04	3013W3SCT56N40X
17W2		626-1124-ND	15.28	11.75	9.85	3017W2SCT56N40X
17W5		626-1132-ND	26.86	20.76	17.71	3017W5SCT56N40X
21WA4		626-1136-ND	20.11	15.54	13.26	321WA4SCT56N40X

Wire Size (AWG)	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Power Contacts - Solder Cup						
8 ~ 10	Pin	626-1143-ND	2.24	1.50	1.18	131C10049X
8 ~ 10	Socket	626-1147-ND	2.56	1.68	1.36	132C10049X
10 ~ 12	Pin	626-1142-ND	2.15	1.43	1.13	131C10039X
10 ~ 12	Socket	626-1146-ND	2.56	1.68	1.36	132C10039X
12 ~ 14	Pin	626-1141-ND	2.28	1.54	1.19	131C10029X
12 ~ 14	Socket	626-1145-ND	2.85	1.94	1.52	132C10029X
16 ~ 20	Pin	626-1140-ND	2.21	1.48	1.16	131C10019X
16 ~ 20	Socket	626-1144-ND	2.56	1.68	1.36	132C10019X

Wire Size (AWG)	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Power Contacts - Crimp						
8 ~ 10	Pin	626-1151-ND	2.18	1.46	1.15	131C11049X
8 ~ 10	Socket	626-1155-ND	2.59	1.71	1.38	132C11049X
10 ~ 12	Pin	626-1150-ND	2.18	1.46	1.15	131C11039X
10 ~ 12	Socket	626-1154-ND	2.56	1.68	1.36	132C11039X
12 ~ 14	Pin	626-1149-ND	2.18	1.46	1.15	131C11029X
12 ~ 14	Socket	626-1153-ND	2.47	1.68	1.30	132C11029X
16 ~ 20	Pin	626-1148-ND	2.15	1.43	1.13	131C11019X
16 ~ 20	Socket	626-1152-ND	2.56	1.68	1.36	132C11019X
50Ω Power Contacts - Coaxial						
—	Pin	626-1156-ND	6.05	4.29	3.52	131J20019X
—	Socket	626-1160-ND	6.16	4.37	3.59	132J20019X
—	Pin	626-1157-ND	6.18	4.47	3.67	131J20029X
—	Socket	626-1161-ND	6.79	4.96	4.05	132J20029X
—	Pin	626-1158-ND	5.56	4.07	3.32	131J20049X
—	Socket	626-1162-ND	6.08	4.45	3.63	132J20049X
75Ω Power Contacts - Coaxial						
—	Pin	626-1159-ND	6.66	4.87	3.97	131J30019X
—	Socket	626-1163-ND	6.32	4.62	3.77	132J30019X

Tools

Description	Digi-Key Part No.	Price Each	CONEC Part No.
Hand Crimp Tool for High Power Contacts	626-1287-ND	597.53	360X10409X
Insert Tool for High Power Contacts	626-1288-ND	247.96	360X20029X
Hand Crimp Tool for Coaxial Contacts (Outer Conductor)	626-1290-ND	380.77	360X10519X
Hex Die Tool Insert	626-1291-ND†	218.34	360X11019X
Hex Die Tool Insert	626-1292-ND†	203.10	360X11029X
Extraction Tool for Coaxial, High Power and Voltage Contacts	626-1289-ND	119.20	360X10319X

† Choice based on contact part number

D-Sub Gender Changers

RoHS COMPLIANT

Fig. 1

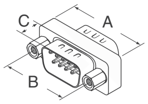

Fig. 2

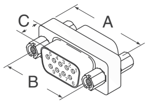

Fig.	No. of Pos.	Type	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Standard Density										
1	9	M-M	31.19	25.00	6.12	626-1085-ND	2.95	2.00	1.57	320X12509X
	15		39.52	33.30	6.12	626-1086-ND	3.04	2.06	1.62	320X12529X
	25		53.42	47.04	5.99	626-1087-ND	3.89	2.68	2.19	320X10549X
	37		69.70	63.50	5.99	626-1088-ND	5.71	3.98	3.27	320X12549X
2	9	F-F	31.19	25.00	6.00	626-1089-ND	2.82	1.92	1.51	320X12519X
	15		39.52	33.30	6.00	626-1090-ND	3.09	2.06	1.68	320X12539X
	25		53.42	47.04	6.00	626-1091-ND	4.03	2.78	2.27	320X10559X
	37		69.70	63.50	6.00	626-1092-ND	5.91	4.20	3.44	320X12559X
High Density										
1	15	M-M	30.86	25.00	6.10	626-1297-ND	4.70	3.28	2.69	DAH1PPAAR04A
2	15	F-F	30.86	25.00	5.80	626-1296-ND	4.98	3.53	2.90	DAH1SSAAX01A

Water Resistant D-Sub Connectors

RoHS COMPLIANT

Electronic equipment that is used in harsh outdoor or indoor environments, require connectors that can withstand moisture, dust and other elements that cause connectors to fail. CONEC® has developed the new water resistant connector system. The water resistant connectors meet IEC 529-IP67 specifications. This series of water resistant connectors can be successfully applied in applications where moisture, high humidity, water and dust are present. CONEC applies special sealing procedures to seal the connectors.

The program is UL (E202784) and CSA (LR115000-1) approved.

Fig. 1

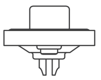

Fig. 2

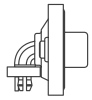

Technical Data:
• Insulators Polyester GF UL 94 V0 • Contacts Copper Alloy • Contact Finish Hard Gold Plated over Nickel • Shell Brass/ Steel • Shell Plating Tin Plated • Working Voltage 125V • Current Rating 5A (20°) • Insulation Resistance ≥5 GΩ • Operating Temperature -40°C ~ 105°C • Degree of Protection Requirements according to ICE 529-IP 67

Fig.	No. of Positions	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Solder Cup							
1	9	Male	626-1164-ND	12.58	9.68	8.11	6STD09PCM99B30X
	9	Female	626-1167-ND	11.48	8.74	7.49	6STD09SCM99B30X
	15	Male	626-1165-ND	13.90	10.94	9.17	6STD15PCM99B30X
	15	Female	626-1168-ND	13.41	10.32	8.65	6STD15SCM99B30X
	25	Male	626-1166-ND	16.81	12.99	10.89	6STD25PCM99B30X
	25	Female	626-1169-ND	16.68	12.89	10.81	6STD25SCM99B30X
PC Mount - Right Angle							
2	9	Female	626-1170-ND	16.48	12.96	10.87	6STD09SCT99S40X
	15	Female	626-1171-ND	15.66	12.11	10.33	6STD15SCT99S40X
	25	Female	626-1172-ND	19.64	15.90	13.33	6STD25SCT99S40X

Amphenol® Commercial Products

Harsh Environment Connectors

Fig. 1

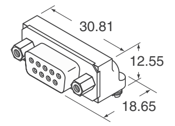

Fig. 2

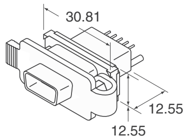

Fig. 3

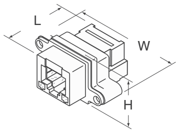

Fig. 4

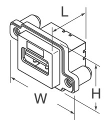

Fig.	Mounting Type	Description	Digi-Key Part No.	Price Each 1	10	100	Amphenol Part No.
D-Subs							
1	PCB	Receptacle	MDB-E09SA-700-ND	14.35	10.92	9.36	MDB-E09SA-700
2		Receptacle with Dust Cap	MDB-E09SA-760-ND	13.28	10.21	8.56	MDB-E09SA-760
2		Plug with Dust Cap	MDB-E09PA-760-ND	13.28	10.21	8.56	MDB-E09PA-760

Fig.	Mounting Type	Dimensions – mm L	W	H	Digi-Key Part No.	Price Each 1	10	100	Amphenol Part No.
RJ45 Jacks									
3	PCB	26.95	29.00	18.00	MRJ-5380-01-ND	11.47	8.61	7.17	MRJ-5380-01
	PCB	26.95	29.00	18.00	MRJ-5381-01-ND‡	11.02	8.27	6.89	MRJ-5381-01
	PCB	26.95	29.00	18.00	MRJ-5385-01-ND†	9.22	6.92	5.76	MRJ-5385-01
	20 Pos. Header	59.20	45.00	19.00	MRJ-5580-01-ND	21.00	16.50	14.25	MRJ-5580-01
	RJ45	48.62	29.00	20.76	MRJ-5780-01-ND	20.09	15.53	13.24	MRJ-5780-01
USB Shielded A Receptacles									
4	PCB	16.20	30.00	18.00	MUSB-A111-30-ND	10.10	7.69	6.59	MUSB-A111-30
	14 Pos. Header	50.20	37.00	18.00	MUSB-A211-30-ND	18.27	14.79	12.40	MUSB-A211-30
	USB A Recept.	47.21	30.00	18.00	MUSB-A311-30-ND	21.36	17.29	14.50	MUSB-A311-30
	Vertical PCB	16.20	30.00	18.00	MUSB-A511-00-ND§	8.25	5.94	4.95	MUSB-A511-00
Stacked USB Shielded A Receptacles									
4	PCB	19.20	30.50	21.00	MUSB-C111-30-ND	10.58	7.62	6.35	MUSB-C111-30
	14 Pos. Header	49.70	30.50	21.25	MUSB-C211-30-ND	18.69	15.13	12.69	MUSB-C211-30
	USB A Recept.	46.60	30.50	23.30	MUSB-C311-30-ND	18.48	14.96	12.54	MUSB-C311-30

‡ 1 Yellow, 1 Green LED † 2 Green LEDs § No Shield

D-Sub Connectors

Fig. 1

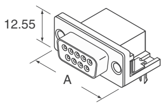

Fig. 2

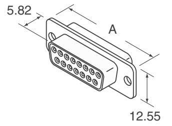

Fig. 3

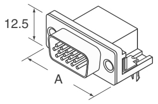

Fig. 4

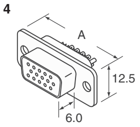

Fig. 5

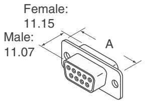

Fig. 6

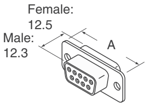

Fig. 7

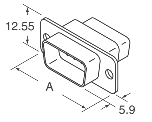

Fig. 8

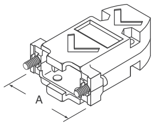

Fig.	No. of Pins	Type	Dim. A mm	Digi-Key Part No.	Price Each 1	10	100	Amphenol Part No.
PCB Mount								
1	9	Male	30.81	6E17C-009P-AJ-121-ND	4.32	2.88	2.35	6E17C-009P-AJ-121
	9	Female	30.81	6E17C-009S-AJ-120-ND	4.77	3.24	2.55	6E17C-009S-AJ-120
	15	Male	39.14	6E17C-015P-AJ-121-ND	5.77	4.02	3.30	6E17C-015P-AJ-121
	15	Female	39.14	6E17C-015S-AJ-120-ND	5.66	3.94	3.24	6E17C-015S-AJ-120
	25	Male	53.04	6E17C-025P-AJ-121-ND	6.79	4.96	4.05	6E17C-025P-AJ-121
	25	Female	53.04	6E17C-025S-AJ-120-ND	7.02	5.13	4.19	6E17C-025S-AJ-120
2	9	Male	30.81	L717DE09PU-ND	4.29	2.96	2.42	L717DE09PU
	9	Female	30.81	L77DE09SU-ND	5.34	3.79	3.11	L77DE09SU
	15	Male	39.14	L717DA15PU-ND	4.68	3.26	2.68	L717DA15PU
	15	Female	39.14	L77DA15SU-ND	6.29	4.60	3.76	L77DA15SU
	25	Male	53.04	L717DB25PU-ND	6.11	4.47	3.65	L717DB25PU
	25	Female	53.04	L77DB25SU-ND	8.45	6.34	5.28	L77DB25SU
	37	Male	69.32	L717DC37PU-ND	8.26	6.20	5.16	L717DC37PU
	37	Female	69.32	L77DC37SU-ND	11.89	9.05	7.76	L77DC37SU
PCB Mount, Right Angle - High Density								
3	15	Male	30.8	17EBH-015-P-AM-0-10-ND	7.28	5.39	4.46	17EBH-015-P-AM-0-10
	15	Female	30.8	17EBH-015-S-AM-0-10-ND	5.93	4.34	3.54	17EBH-015-S-AM-0-10
	26	Male	39.2	17EBH-026-P-AM-0-10-ND	9.72	7.29	6.08	17EBH-026-P-AM-0-10
	26	Female	39.2	17EBH-026-S-AM-0-10-ND	8.25	5.94	4.95	17EBH-026-S-AM-0-10
	44	Male	53.1	17EBH-044-P-AM-0-10-ND	13.23	10.07	8.63	17EBH-044-P-AM-0-10
	44	Female	53.1	17EBH-044-S-AM-0-10-ND	9.89	7.42	6.18	17EBH-044-S-AM-0-10
Solder Cup - High Density								
4	15	Male	30.8	17EHD-015-P-AA-0-00-ND	3.78	2.57	2.02	17EHD-015-P-AA-0-00
	15	Female	30.8	17EHD-015-S-AA-0-00-ND	3.87	2.58	2.11	17EHD-015-S-AA-0-00
	26	Male	39.2	17EHD-026-P-AA-0-00-ND	4.82	3.36	2.76	17EHD-026-P-AA-0-00
	26	Female	39.2	17EHD-026-S-AA-0-00-ND	4.99	3.44	2.81	17EHD-026-S-AA-0-00
	44	Male	53.1	17EHD-044-P-AA-0-00-ND	5.12	3.57	2.93	17EHD-044-P-AA-0-00
	44	Female	53.1	17EHD-044-S-AA-0-00-ND	6.01	4.39	3.59	17EHD-044-S-AA-0-00
Solder Cup - Machined Contacts								
5	9	Male	30.81	L717DE09P-ND	4.73	3.30	2.71	L717DE09P
	9	Female	30.81	L77DE09S-ND	5.61	3.98	3.27	L77DE09S
	15	Male	39.14	L717DA15P-ND	5.61	3.98	3.27	L717DA15P
	15	Female	39.14	L77DA15S-ND	6.63	4.85	3.96	L77DA15S
	25	Male	53.04	L717DB25P-ND	6.44	4.57	3.75	L717DB25P
	25	Female	53.04	L77DB25S-ND	8.95	6.72	5.60	L77DB25S
	37	Male	69.32	L717DC37P-ND	9.94	7.46	6.21	L717DC37P
	37	Female	69.32	L77DC37S-ND	12.31	9.47	7.94	L77DC37S
	50	Male	66.93	L717DD50P-ND	13.21	10.16	8.52	L717DD50P
	50	Female	66.93	L77DD50S-ND	17.84	13.79	11.76	L77DD50S
Solder Cup - Stamped and Formed Contacts								
6	9	Male	30.84	G17S0910110EU-ND	1.13	.97	.69	G17S0910110EU
	9	Female	30.84	G17S0900110EU-ND	1.20	.75	.56	G17S0900110EU
	15	Male	39.24	G17S1510110EU-ND	1.45	.89	.65	G17S151011OEU
	15	Female	39.24	G17S1500110EU-ND	1.48	.97	.69	G17S1500110EU
	25	Male	53.04	G17S2510110EU-ND	1.60	.99	.74	G17S2510110EU
	25	Female	53.04	G17S2500110EU-ND	1.52	.94	.71	G17S2500110EU
	37	Male	69.32	G17S3710110EU-ND	2.61	1.74	1.37	G17S3710110EU
	37	Female	69.32	G17S3700110EU-ND	2.58	1.68	1.32	G17S3700110EU
Crimp								
7	9	Male	30.81	L777-RR-E-09-P-ND	1.08	.71	.50	L777-RR-E-09-P
	9	Female	30.81	L177-RR-E-09-S-ND	1.08	.71	.50	L177-RR-E-09-S
	15	Male	39.14	L777-RR-A-15-P-ND	1.25	.84	.58	L777-RR-A-15-P
	15	Female	39.14	L177-RR-A-15-S-ND	1.25	.84	.58	L177-RR-A-15-S
	25	Male	53.04	L777-RR-B-25-P-ND	1.29	.86	.60	L777-RR-B-25-P
	25	Female	53.04	L177-RR-B-25-S-ND	1.29	.86	.60	L177-RR-B-25-S
	37	Male	69.32	L777-RR-C-37-P-ND	2.07	1.38	1.06	L777-RR-C-37-P
	37	Female	69.32	L177-RR-C-37-S-ND	2.07	1.38	1.06	L177-RR-C-37-S
	50	Male	66.93	L777-RR-D-50-P-ND	4.37	3.05	2.50	L777-RR-D-50-P
	50	Female	66.93	L177-RR-D-50-S-ND	4.37	3.05	2.50	L177-RR-D-50-S

Fig.	No. of Pins	Material	Dim. A mm	Digi-Key Part No.	Price Each 1	10	100	Amphenol Part No.
Backshells								
8	9	Die Cast	30.91	17E-1657-09-ND	8.06	5.56	4.54	17E-1657-09
	15		39.24	17E-1657-15-ND	8.18	5.70	4.68	17E-1657-15
	25		53.09	17E-1657-25-ND	8.17	5.80	4.76	17E-1657-25
	37		69.44	17E-1657-37-ND	10.50	7.68	6.27	17E-1657-37
	9	Black Plastic	30.91	17E-1724-1-ND	2.91	1.92	1.55	17E-1724-1
	15		39.24	17E-1725-1-ND	3.16	2.15	1.74	17E-1725-1
	25		53.08	17E-1726-1-ND	3.26	2.21	1.74	17E-1726-1
	37		69.44	17E-1727-1-ND	3.84	2.56	2.09	17E-1727-1
	50		67.18	17E-1728-1-ND	3.84	2.56	2.09	17E-1728-1
	9	Metalized Plastic	30.91	17E-1724-2-ND	4.12	2.84	2.32	17E-1724-2
	15		39.24	17E-1725-2-ND	4.47	3.08	2.52	17E-1725-2
	25		50.8	17E-1726-2-ND	4.87	3.36	2.74	17E-1726-2
	37		69.34	17E-1727-2-ND	6.32	4.62	3.77	17E-1727-2
	50		67.18	17E-1728-2-ND	7.46	5.46	4.45	17E-1728-2

AWG	Plating	Digi-Key Part No.	Pricing 10	100	500	Amphenol Part No.
Contacts for Female						
20-24	8µ" Gold	L17-RR-D1-F-01-100-ND	2.10	13.52	55.59	L17-RR-D1-F-01-100
20-24	20µ" Gold	L17-RR-D1-F-02-100-ND	3.20	21.00	87.50	L17-RR-D1-F-02-100
24-28	8µ" Gold	L17-RR-D2-F-01-100-ND	2.10	13.52	55.59	L17-RR-D2-F-01-100
24-28	20µ" Gold	L17-RR-D2-F-02-100-ND	3.20	21.00	87.50	L17-RR-D2-F-02-100
Contacts for Male						
20-24	8µ" Gold	L17-RR-D1-M-01-100-ND	2.10	13.52	55.59	L17-RR-D1-M-01-100
20-24	20µ" Gold	L17-RR-D1-M-02-100-ND	3.20	21.00	87.50	L17-RR-D1-M-02-100
24-28	8µ" Gold	L17-RR-D2-M-01-100-ND	2.10	13.52	55.59	L17-RR-D2-M-01-100
24-28	20µ" Gold	L17-RR-D2-M-02-100-ND	3.20	21.00	87.50	L17-RR-D2-M-02-100
Crimp Tools						
Insert/Extraction for 17RR		L17D438SP-ND		31.14/1		L17D438SP
Crimper for 17RR 20-28AWG		L17D440SP-ND ***NEW!***		535.92/1		L17D44OSP

Amphenol® Commercial Products

RJ45 Modular Jacks

RoHS COMPLIANT

Fig. 1

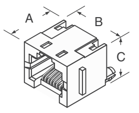

Fig. 2

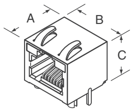

Fig. 3

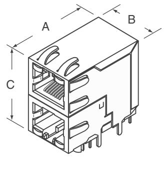

Fig. 4

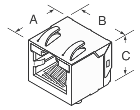

Fig.	Description	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Amphenol Part No.
	PCB Vertical							
	Unshielded							
1	No LED	15.50	15.75	12.83	RJHSE-3080-ND	2.30	1.42	RJHSE-3080
	LED Green-Yellow	15.50	15.75	12.83	RJHSE-3081-ND	2.45	1.57	RJHSE-3081
	LED Green-Green	15.50	15.75	12.83	RJHSE-3085-ND	2.45	1.57	RJHSE-3085
	Shielded							
1	No LED	15.88	16.51	13.59	RJHSE-3380-ND	2.59	1.67	RJHSE-3380
	LED Yellow-Green	15.88	16.51	13.59	RJHSE-3381-ND	3.17	2.12	RJHSE-3381
	LED Green-Yellow	15.88	16.51	13.59	RJHSE-3384-ND	3.17	2.12	RJHSE-3384
	LED Green-Green	15.88	16.51	13.59	RJHSE-3385-ND	3.17	2.12	RJHSE-3385
	LED Both Bi-Color	15.88	16.51	13.59	RJHSE-338A-ND	4.75	3.22	RJHSE-338A
	PCB Right Angle							
	Unshielded							
2	No LED	14.99	15.75	13.21	RJHSE-5080-ND	1.33	.79	RJHSE-5080
	LED Yellow-Green	14.99	15.75	13.21	RJHSE-5081-ND	1.81	1.12	RJHSE-5081
	LED Green-Yellow	14.99	15.75	13.21	RJHSE-5084-ND	1.81	1.12	RJHSE-5084
	LED Green-Green	14.99	15.75	13.21	RJHSE-5085-ND	1.81	1.12	RJHSE-5085
	No LED	18.67	14.60	12.95	FRJAE-408-ND	3.00	1.95	FRJAE-408
	Shielded							
2	No LED	15.75	16.51	13.46	RJHSE-5380-ND	1.96	1.28	RJHSE-5380
	LED Yellow-Green	15.75	16.51	13.46	RJHSE-5381-ND	2.43	1.54	RJHSE-5381
	LED Green-Yellow	15.75	16.51	13.46	RJHSE-5384-ND	2.43	1.54	RJHSE-5384
	LED Green-Green	15.75	16.51	13.46	RJHSE-5385-ND	2.43	1.54	RJHSE-5385
	LED Both Bi-Color	15.75	16.51	13.46	RJHSE-538A-ND	3.64	2.41	RJHSE-538A
	With Tabs, No LED	15.75	16.51	13.46	RJHSE-5480-ND	1.96	1.28	RJHSE-5480
	With Tabs, LED Yellow-Green	15.75	16.51	13.46	RJHSE-5481-ND	2.43	1.54	RJHSE-5481
	Filtered, No LED	18.03	13.97	12.70	FRJAE-418-ND	3.56	2.28	FRJAE-418
	Front Tab, No LED	18.03	13.97	12.70	FRJAE-438-ND	3.44	2.24	FRJAE-438
2	Filtered, Rear Tab, No LED	18.03	13.97	12.70	FRJAE-468-ND	3.56	2.28	FRJAE-468
	Rear Tab, No LED	18.03	13.97	12.70	FRJAE-488-ND	3.44	2.24	FRJAE-488
	PCB Right Angle — Multi Port							
	Unshielded							
2	LED Green-Green, 2 Ports	15.00	31.56	12.70	RJHSE-5085-02-ND	3.50	2.32	RJHSE-5085-02
	Shielded							
2	No LED 1x2	15.75	32.26	13.46	RJHSE-5380-02-ND	3.50	2.32	RJHSE-5380-02
	LED Yellow-Green, 2 Ports	15.75	32.26	13.46	RJHSE-5381-02-ND	4.77	3.13	RJHSE-5381-02
	LED Green-Yellow, 2 Ports	15.75	32.26	13.46	RJHSE-5384-02-ND	4.77	3.13	RJHSE-5384-02
	LED Green-Green, 2 Ports	15.75	32.26	13.46	RJHSE-5385-02-ND	4.77	3.13	RJHSE-5385-02
	LED Yellow-Green, 4 Ports	15.76	63.75	13.46	RJHSE-5381-04-ND	5.85	3.90	RJHSE-5381-04
	LED Green-Yellow, 4 Ports	15.76	63.75	13.46	RJHSE-5384-04-ND	5.85	3.90	RJHSE-5384-04
	LED Green-Green, 4 Ports	15.76	63.75	13.46	RJHSE-5385-04-ND	5.58	3.72	RJHSE-5385-04
	Shielded - Stacked							
3	LED Yellow-Green, 2 Ports	28.15	16.51	25.40	RJSAE-5381-02-ND	6.92	4.82	RJSAE-5381-02
	LED Green-Green, 2 Ports	28.15	16.51	25.40	RJSAE-5385-02-ND	6.92	4.82	RJSAE-5385-02
	LED Both Bi-Color, 2 Ports	28.15	16.51	25.40	RJSAE-538A-02-ND	8.11	5.76	RJSAE-538A-02
	LED Yellow-Green, 4 Ports	28.15	32.26	25.40	RJSAE-5381-04-ND	11.18	8.27	RJSAE-5381-04
	LED Green-Green, 4 Ports	28.15	32.26	25.40	RJSAE-5385-04-ND	11.18	8.27	RJSAE-5385-04
	LED Both Bi-Color, 4 Ports	28.15	32.26	25.40	RJSAE-538A-04-ND	13.01	9.76	RJSAE-538A-04
	LED Yellow-Green, 8 Ports	28.15	63.75	25.40	RJSAE-5381-08-ND	18.24	13.88	RJSAE-5381-08
	LED Green-Green, 8 Ports	28.15	63.75	25.40	RJSAE-5385-08-ND	18.24	13.88	RJSAE-5385-08
	LED Both Bi-Color, 8 Ports	28.15	63.75	25.40	RJSAE-538A-08-ND	21.69	17.06	RJSAE-538A-08
	Surface Mount Right Angle							
	Unshielded							
4	Single Port	15.19	16.10	13.08	RJSSE-5080-ND	1.87	1.25	RJSSE-5080
	2 Ports	15.20	31.73	13.27	RJSSE-5080-02-ND	3.13	2.03	RJSSE-5080-02
	4 Ports	15.20	63.30	12.81	RJSSE-5080-04-ND	4.95	3.30	RJSSE-5080-04
	Shielded							
4	Single Port	15.75	16.51	13.34	RJSSE-5380-ND	2.33	1.52	RJSSE-5380
	2 Ports	15.75	32.26	13.34	RJSSE-5380-02-ND	4.28	2.90	RJSSE-5380-02
	4 Ports	15.75	63.75	13.34	RJSSE-5380-04-ND	6.82	4.84	RJSSE-5380-04
	Surface Mount Right Angle With Light Pipe							
	Unshielded							
4	Single Port	15.20	15.98	13.38	RJSSE-5081-ND	2.07	1.28	RJSSE-5081
	2 Ports	15.20	31.73	13.38	RJSSE-5081-02-ND	3.47	2.31	RJSSE-5081-02
	4 Ports	15.20	63.30	13.38	RJSSE-5081-04-ND	5.45	3.76	RJSSE-5081-04
	Shielded							
4	Single Port	15.75	16.51	13.34	RJSSE-5381-ND	2.52	1.57	RJSSE-5381
	2 Ports	15.75	32.26	13.34	RJSSE-5381-02-ND	3.47	2.31	RJSSE-5381-02
	4 Ports	15.75	63.75	13.34	RJSSE-5381-04-ND	6.93	4.92	RJSSE-5381-04

I/O INTERCONNECT / *Digi-Key®*

IDC Modular Cable Assemblies

Style	Positons/ Contacts	Digi-Key* Part No.	Price Each 1	10	50	100
		Straight Cable				
1	4/4	H1443-07-ND	2.51	2.13	1.80	1.54
	6/4	H1643-14-ND	3.44	2.92	2.47	2.11
	8/8	H1883-14-ND	5.58	4.74	4.00	3.42
2	4/4	H244☐-14-ND	3.09	2.63	2.22	1.90
	8/8	H288☐-14-ND	5.58	4.74	4.00	3.42
	8/8	H2883-25-ND	7.52	6.39	5.40	4.62
3	6/4	H3643-14-ND	2.30	1.96	1.66	1.42
	8/8	H3881-14-ND	4.03	3.42	2.89	2.47
	8/8	H3882-14-ND	4.03	3.42	2.89	2.47

Style	Positions/ Contacts	Digi-Key* Part No.	Price Each 1	10	50	100
		Coiled Cord				
1	6/6	H1661-05C-ND	5.02	4.27	3.61	3.09
	6/6	H1663-05C-ND	5.02	4.27	3.61	3.09
	8/8	H1883-14C-ND	10.31	8.76	7.39	6.33
2	4/4	H2441-07C-ND	4.39	3.73	3.15	2.69
	4/4	H2442-07C-ND	4.39	3.73	3.15	2.69
	4/4	H2442-10C-ND	5.92	5.03	4.25	3.64
	6/4	H264☐-05C-ND	4.60	3.91	3.30	2.82
	8/8	H2881-05C-ND	8.05	6.84	5.78	4.94
	8/8	H2883-07C-ND	7.76	6.60	5.57	4.77
3	6/6	H3662-05C-ND	3.74	3.18	2.69	2.30

* 1 = White, 2 = Black, 3 = Silver Satin.

Note: Custom length also available — minimum order required.

Style 1: Standard

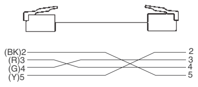

Style 2: Reverse

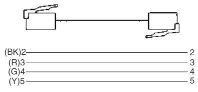

Style 3: Single Ended

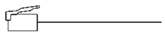

Straight

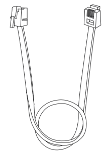

Coiled

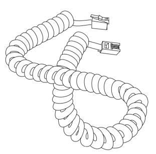

H☐☐☐☐-☐☐☐-ND

C = Designates Coil Cord

Wire Type: (Color)
1 = White
2 = Black
3 = Silver Satin

Length* (Use "Feet" Only)

Length	
07 = 7 Feet (2.13 Meters) **14** = 14 Feet (4.27 Meters) **25** = 25 Feet (7.62 Meters)	Straight
05 = 5 Feet (1.52 Meters) **07** = 7 Feet (2.13 Meters) **10** = 10 Feet (3.05 Meters) **14** = 14 Feet (4.27 Meters)	Coiled

Connector(s):
44 = 4-Position, 4-Contact (Black on Pin 1)
64 = 6-Positoin, 4-Contact (Black on Pin 1)
66 = 6-Position, 6-Contact (White on Pin 1)
88 = 8-Position, 8-Contact (Gray on Pin 1)

Straight Cable Assembly

Example: H1441-07-ND
Style 1
4-Position 4-Contact
White Wire
7 Feet Long (2.13 Meters)

Coil Cord Assembly

Example: H1441-10C-ND
Style 1
4-Position 4-Contact
White Wire
10 Feet Long (2.13 Meters)
Optimum Extended Length

How To Order: 1) You choose your part number simply by substituting the corresponding code to indicate the following: Style, Connector(s), Wire Type, and Length (***in feet - not meters***).

RoHS COMPLIANT

IDC Modular Cable Assemblies

Style 1: Standard

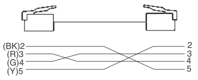

Style 2: Reverse

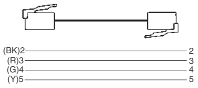

Style 3: Single Ended

H□□□□R-□□□-ND

Wire Type: (Color)
1 = White
2 = Black
3 = Silver Satin

RoHS Compliant

C = Coil Cord
Blank = Straight Cord

Length* (Use "Feet" Only)
07 = 7 Feet (2.13 Meters)
14 = 14 Feet (4.27 Meters) Straight
25 = 25 Feet (7.62 Meters)
05 = 5 Feet (1.52 Meters)
07 = 7 Feet (2.13 Meters)
10 = 10 Feet (3.05 Meters) Coiled
14 = 14 Feet (4.27 Meters)

Connector(s):
44 = 4-Position, 4-Contact (Black on Pin 1)
64 = 6-Positoin, 4-Contact (Black on Pin 1)
66 = 6-Position, 6-Contact (White on Pin 1)
88 = 8-Position, 8-Contact (Gray on Pin 1)

How To Order: Choose your part number simply by substituting the corresponding code to indicate the following: Style, Connector(s), Wire Type and Length (***in feet - not meters***).

Straight Cable Assembly

Example: H 1 4 4 1 R - 0 7 - N D
Style 1
4-Position
4-Contact
White Wire
7 Feet Long (2.13 Meters)

Coil Cord Assembly

Example: H 1 4 4 1 R - 1 0 C - N D
Style 1
4-Position
4-Contact
White Wire
10 Feet Long (2.13 Meters)
Optimum Extended Length

Straight

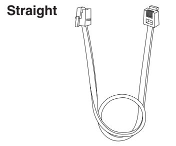

Coiled

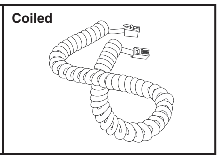

Straight Cable Assemblies

Style	Digi-Key Part No.†	Price Each			
		1	10	50	100
4-Position, 4-Contact Assemblies					
1	H1441R-07-ND	2.70	2.29	1.94	1.66
	H1442R-07-ND	2.70	2.29	1.94	1.66
	H1443R-07-ND	1.83	1.56	1.32	1.13
	H1441R-14-ND	2.70	2.30	1.94	1.66
	H1442R-14-ND	3.47	2.95	2.49	2.13
	H1443R-14-ND	3.47	2.95	2.49	2.13
	H1441R-25-ND	4.69	3.98	3.36	2.88
	H1442R-25-ND	4.69	3.98	3.36	2.88
	H1443R-25-ND	4.69	3.98	3.36	2.88
2	H2441R-07-ND	2.09	1.78	1.51	1.29
	H2442R-07-ND	2.60	2.21	1.87	1.60
	H2443R-07-ND	2.17	1.85	1.56	1.34
	H2441R-14-ND	3.47	2.95	2.49	2.13
	H2442R-14-ND	3.50	2.97	2.51	2.15
	H2443R-14-ND	3.47	2.95	2.49	2.13
	H2441R-25-ND	4.69	3.98	3.36	2.88
	H2442R-25-ND	3.68	3.13	2.65	2.26
	H2443R-25-ND	4.69	3.98	3.36	2.88
3	H3441R-07-ND	2.60	2.21	1.87	1.60
	H3442R-07-ND	1.33	1.13	.95	.82
	H3443R-07-ND	2.73	2.32	1.96	1.68
	H3441R-14-ND	2.51	2.13	1.80	1.54
	H3442R-14-ND	2.78	2.37	2.00	1.71
	H3443R-14-ND	2.51	2.13	1.80	1.54
	H3441R-25-ND	3.73	3.17	2.68	2.29
	H3442R-25-ND	3.73	3.17	2.68	2.29
	H3443R-25-ND	3.73	3.17	2.68	2.29
6-Position, 4-Contact Assemblies					
1	H1641R-07-ND	2.76	2.34	1.98	1.69
	H1642R-07-ND	2.84	2.41	2.04	1.74
	H1643R-07-ND	2.84	2.41	2.04	1.74
	H1641R-14-ND	3.81	3.24	2.74	2.34
	H1642R-14-ND	3.13	2.66	2.25	1.92
	H1643R-14-ND	3.15	2.68	2.27	1.94
	H1641R-25-ND	5.03	4.27	3.61	3.09
	H1642R-25-ND	4.40	3.74	3.16	2.70
	H1643R-25-ND	4.16	3.54	2.99	2.56
2	H2641R-07-ND	2.52	2.14	1.81	1.55
	H2642R-07-ND	2.84	2.41	2.04	1.74
	H2643R-07-ND	2.84	2.41	2.04	1.74
	H2641R-14-ND	3.31	2.82	2.38	2.04
	H2642R-14-ND	3.90	3.31	2.80	2.39
	H2643R-14-ND	3.13	2.66	2.25	1.92
	H2641R-25-ND	4.13	3.51	2.97	2.54
	H2642R-25-ND	5.03	4.27	3.61	3.09
	H2643R-25-ND	4.74	4.03	3.41	2.91
3	H3641R-07-ND	1.54	1.31	1.11	.95
	H3642R-07-ND	2.81	2.39	2.02	1.73
	H3643R-07-ND	2.81	2.39	2.02	1.73
	H3641R-14-ND	2.68	2.28	1.93	1.65
	H3642R-14-ND	2.25	1.92	1.62	1.39
	H3643R-14-ND	2.25	1.92	1.62	1.39
	H3641R-25-ND	3.90	3.31	2.80	2.39
	H3642R-25-ND	3.90	3.31	2.80	2.39
	H3643R-25-ND	5.14	4.37	3.69	3.16
6-Position, 6-Contact Assemblies					
1	H1661R-07-ND	3.76	3.20	2.70	2.31
	H1662R-07-ND	3.76	3.20	2.70	2.31
	H1663R-07-ND	3.95	3.36	2.84	2.43
	H1661R-14-ND	4.11	3.49	2.95	2.52
	H1662R-14-ND	4.66	3.96	3.35	2.86
	H1663R-14-ND	4.19	3.56	3.01	2.57
	H1661R-25-ND	5.80	4.93	4.17	3.56
	H1662R-25-ND	5.54	4.71	3.98	3.40
	H1663R-25-ND	7.60	6.46	5.45	4.66
2	H2661R-07-ND	3.79	3.22	2.72	2.33
	H2662R-07-ND	3.79	3.22	2.72	2.33
	H2663R-07-ND	3.79	3.22	2.72	2.33
	H2661R-14-ND	5.38	4.57	3.86	3.30
	H2662R-14-ND	4.16	3.54	2.99	2.56
	H2663R-14-ND	3.52	3.00	2.53	2.17
	H2661R-25-ND	7.60	6.46	5.45	4.66
	H2662R-25-ND	6.28	5.34	4.51	3.86
	H2663R-25-ND	5.59	4.75	4.01	3.43
3	H3661R-07-ND	2.17	1.85	1.56	1.34
	H3662R-07-ND	2.15	1.83	1.54	1.32
	H3663R-07-ND	1.83	1.56	1.32	1.13
	H3661R-14-ND	4.10	3.49	2.95	2.52
	H3662R-14-ND	4.10	3.49	2.95	2.52
	H3663R-14-ND	4.10	3.49	2.95	2.52
	H3661R-25-ND	6.32	5.37	4.53	3.88
	H3662R-25-ND	6.32	5.37	4.53	3.88
	H3663R-25-ND	6.32	5.37	4.53	3.88
8-Position, 8-Contact Assemblies					
1	H1881R-07-ND	4.16	3.54	2.99	2.56
	H1882R-07-ND	4.69	3.99	3.37	2.88
	H1883R-07-ND	3.92	3.33	2.82	2.41
	H1881R-14-ND	7.14	6.06	5.12	4.38
	H1882R-14-ND	7.14	6.06	5.12	4.38
	H1883R-14-ND	7.14	6.06	5.12	4.38
	H1881R-25-ND	10.31	8.76	7.40	6.33
	H1882R-25-ND	10.31	8.76	7.40	6.33
	H1883R-25-ND	10.31	8.76	7.40	6.33
2	H2881R-07-ND	5.12	4.35	3.67	3.14
	H2882R-07-ND	4.66	3.96	3.35	2.86
	H2883R-07-ND	4.66	3.96	3.35	2.86
	H2881R-14-ND	7.14	6.06	5.12	4.38
	H2882R-14-ND	6.04	5.13	4.34	3.71
	H2883R-14-ND	6.04	5.13	4.34	3.71
	H2881R-25-ND	5.43	4.62	3.90	3.34
	H2882R-25-ND	10.31	8.76	7.40	6.33
	H2883R-25-ND	7.16	6.08	5.13	4.39
3	H3881R-07-ND	3.57	3.03	2.56	2.19
	H3882R-07-ND	3.23	2.75	2.32	1.99
	H3883R-07-ND	3.23	2.75	2.32	1.99
	H3881R-14-ND	5.59	4.75	4.01	3.43
	H3882R-14-ND	5.59	4.75	4.01	3.43
	H3883R-14-ND	5.59	4.75	4.01	3.43
	H3881R-25-ND	8.76	7.44	6.29	5.38
	H3882R-25-ND	8.76	7.44	6.29	5.38
	H3883R-25-ND	8.76	7.44	6.29	5.38

† **1**= White, **2** = Black, **3** = Silver Satin
Note: Custom length also available – minimum order required.

Coil Cord Assemblies

Style	Digi-Key Part No.†	Price Each			
		1	10	50	100
4-Position, 4-Contact Assemblies					
1	H1441R-05C-ND	6.06	5.15	4.35	3.72
	H1442R-05C-ND	3.82	3.24	2.74	2.34
	H1443R-05C-ND	3.79	3.22	2.72	2.33
	H1441R-07C-ND	6.43	5.46	4.61	3.95
	H1442R-07C-ND	3.95	3.36	2.84	2.43
	H1443R-07C-ND	6.11	5.19	4.39	3.75
	H1441R-10C-ND	8.49	7.22	6.10	5.21
	H1442R-10C-ND	5.86	4.98	4.20	3.60
	H1443R-10C-ND	7.28	6.18	5.22	4.47
	H1441R-14C-ND	9.53	8.09	6.84	5.85
	H1442R-14C-ND	8.68	7.37	6.23	5.33
	H1443R-14C-ND	9.13	7.76	6.55	5.60
2	H2441R-05C-ND	6.06	5.15	4.35	3.72
	H2442R-05C-ND	3.82	3.24	2.74	2.34
	H2443R-05C-ND	5.42	4.61	3.89	3.33
	H2441R-07C-ND	6.43	5.46	4.61	3.95
	H2442R-07C-ND	6.43	5.46	4.61	3.95
	H2443R-07C-ND	6.11	5.19	4.39	3.75
	H2441R-10C-ND	8.49	7.22	6.10	5.21
	H2442R-10C-ND	8.20	6.97	5.89	5.03
	H2443R-10C-ND	7.28	6.18	5.22	4.47
	H2441R-14C-ND	9.53	8.09	6.84	5.85
	H2442R-14C-ND	8.68	7.37	6.23	5.33
	H2443R-14C-ND	9.13	7.76	6.55	5.60
3	H3441R-05C-ND	5.10	4.33	3.66	3.13
	H3442R-05C-ND	3.21	2.73	2.30	1.97
	H3443R-05C-ND	4.46	3.79	3.20	2.74
	H3441R-07C-ND	5.47	4.65	3.92	3.36
	H3442R-07C-ND	5.47	4.65	3.92	3.36
	H3443R-07C-ND	3.05	2.59	2.19	1.87
	H3441R-10C-ND	7.53	6.40	5.41	4.62
	H3442R-10C-ND	3.58	3.04	2.57	2.20
	H3443R-10C-ND	6.31	5.37	4.53	3.88
	H3441R-14C-ND	8.57	7.28	6.15	5.26
	H3442R-14C-ND	4.37	3.72	3.14	2.69
	H3443R-14C-ND	8.17	6.94	5.86	5.01
6-Position, 4-Contact Assemblies					
1	H1641R-05C-ND	6.40	5.44	4.59	3.93
	H1642R-05C-ND	5.84	4.96	4.19	3.59
	H1643R-05C-ND	4.35	3.69	3.12	2.67
	H1641R-07C-ND	6.77	5.75	4.86	4.16
	H1642R-07C-ND	6.77	5.75	4.86	4.16
	H1643R-07C-ND	6.45	5.48	4.63	3.96
	H1641R-10C-ND	6.28	5.34	4.51	3.86
	H1642R-10C-ND	8.55	7.26	6.13	5.24
	H1643R-10C-ND	7.62	6.47	5.47	4.68
	H1641R-14C-ND	8.51	7.23	6.10	5.22
	H1642R-14C-ND	9.02	7.66	6.47	5.54
	H1643R-14C-ND	9.47	8.05	6.80	5.81
2	H2641R-05C-ND	6.40	5.44	4.59	3.93
	H2642R-05C-ND	5.84	4.96	4.19	3.59
	H2643R-05C-ND	5.76	4.90	4.14	3.54
	H2641R-07C-ND	6.77	5.75	4.86	4.16
	H2642R-07C-ND	6.77	5.75	4.86	4.16
	H2643R-07C-ND	6.45	5.48	4.63	3.96
	H2641R-10C-ND	8.84	7.51	6.34	5.42
	H2642R-10C-ND	8.55	7.26	6.13	5.24
	H2643R-10C-ND	7.62	6.47	5.47	4.68
	H2641R-14C-ND	9.87	8.38	7.08	6.06
	H2642R-14C-ND	9.02	7.66	6.47	5.54
	H2643R-14C-ND	9.47	8.05	6.80	5.81
3	H3641R-05C-ND	5.27	4.48	3.78	3.23
	H3642R-05C-ND	4.71	4.00	3.38	2.89
	H3643R-05C-ND	4.63	3.94	3.32	2.84
	H3641R-07C-ND	5.64	4.79	4.05	3.46
	H3642R-07C-ND	5.64	4.79	4.05	3.46
	H3643R-07C-ND	5.32	4.52	3.82	3.27
	H3641R-10C-ND	7.70	6.55	5.53	4.73
	H3642R-10C-ND	3.58	3.04	2.57	2.20
	H3643R-10C-ND	6.49	5.51	4.65	3.98
	H3641R-14C-ND	8.74	7.42	6.27	5.36
	H3642R-14C-ND	7.89	6.70	5.66	4.84
	H3643R-14C-ND	8.34	7.09	5.98	5.12
6-Position, 6-Contact Assemblies					
1	H1661R-05C-ND	5.82	4.94	4.18	3.57
	H1662R-05C-ND	5.54	4.71	3.98	3.40
	H1663R-05C-ND	6.32	5.37	4.54	3.88
	H1661R-07C-ND	5.99	5.09	4.30	3.68
	H1662R-07C-ND	3.42	2.91	2.46	2.10
	H1663R-07C-ND	7.97	6.77	5.72	4.89
	H1661R-10C-ND	10.29	8.74	7.38	6.31
	H1662R-10C-ND	7.92	6.73	5.69	4.86
	H1663R-10C-ND	7.46	6.34	5.35	4.58
	H1661R-14C-ND	10.29	8.74	7.38	6.31
	H1662R-14C-ND	9.57	8.13	6.86	5.87
	H1663R-14C-ND	10.96	9.31	7.86	6.73
2	H2661R-05C-ND	2.52	2.14	1.81	1.55
	H2662R-05C-ND	6.12	5.20	4.39	3.76
	H2663R-05C-ND	6.32	5.37	4.54	3.88
	H2661R-07C-ND	7.78	6.61	5.58	4.78
	H2662R-07C-ND	5.94	5.04	4.26	3.64
	H2663R-07C-ND	7.97	6.77	5.72	4.89
	H2661R-10C-ND	10.29	8.74	7.38	6.31
	H2662R-10C-ND	7.92	6.73	5.69	4.86
	H2663R-10C-ND	7.46	6.34	5.35	4.58
	H2661R-14C-ND	10.29	8.74	7.38	6.31
	H2662R-14C-ND	10.52	8.94	7.55	6.46
	H2663R-14C-ND	10.96	9.31	7.86	6.73
3	H3661R-05C-ND	4.54	3.86	3.26	2.79
	H3662R-05C-ND	3.84	3.27	2.76	2.36
	H3663R-05C-ND	5.04	4.29	3.62	3.10
	H3661R-07C-ND	6.50	5.52	4.67	3.99
	H3662R-07C-ND	4.98	4.23	3.58	3.06
	H3663R-07C-ND	6.69	5.68	4.80	4.10
	H3661R-10C-ND	9.01	7.65	6.46	5.53
	H3662R-10C-ND	9.01	7.65	6.46	5.53
	H3663R-10C-ND	6.18	5.25	4.44	3.80
	H3661R-14C-ND	9.01	7.65	6.46	5.53
	H3662R-14C-ND	5.38	4.57	3.86	3.30
	H3663R-14C-ND	9.68	8.22	6.95	5.94
8-Position, 8-Contact Assemblies					
1	H1881R-05C-ND	9.06	7.70	6.50	5.56
	H1882R-05C-ND	8.50	7.23	6.10	5.22
	H1883R-05C-ND	9.46	8.04	6.79	5.81
	H1881R-07C-ND	9.22	7.83	6.62	5.66
	H1882R-07C-ND	9.06	7.70	6.50	5.56
	H1883R-07C-ND	8.89	7.55	6.38	5.45
	H1881R-10C-ND	12.45	10.58	8.93	7.64
	H1882R-10C-ND	12.16	10.33	8.72	7.46
	H1883R-10C-ND	11.72	9.95	8.41	7.19
	H1881R-14C-ND	13.62	11.57	9.77	8.36
	H1882R-14C-ND	13.30	11.30	9.54	8.16
	H1883R-14C-ND	12.80	10.87	9.18	7.85
2	H2881R-05C-ND	9.06	7.70	6.50	5.56
	H2882R-05C-ND	8.56	7.27	6.14	5.25
	H2883R-05C-ND	3.84	3.27	2.76	2.36
	H2881R-07C-ND	9.22	7.83	6.62	5.66
	H2882R-07C-ND	7.55	6.42	5.42	4.64
	H2883R-07C-ND	8.89	7.55	6.38	5.45
	H2881R-10C-ND	12.45	10.58	8.93	7.64
	H2882R-10C-ND	11.69	9.93	8.38	7.17
	H2883R-10C-ND	11.72	9.95	8.41	7.19
	H2881R-14C-ND	13.62	11.57	9.77	8.36
	H2882R-14C-ND	13.30	11.30	9.54	8.16
	H2883R-14C-ND	12.80	10.87	9.18	7.85
3	H3881R-05C-ND	7.51	6.38	5.39	4.61
	H3882R-05C-ND	6.96	5.91	4.99	4.27
	H3883R-05C-ND	7.91	6.72	5.68	4.86
	H3881R-07C-ND	7.67	6.52	5.50	4.71
	H3882R-07C-ND	8.98	7.63	6.45	5.51
	H3883R-07C-ND	7.34	6.23	5.27	4.50
	H3881R-10C-ND	10.90	9.26	7.82	6.69
	H3882R-10C-ND	10.61	9.02	7.61	6.51
	H3883R-10C-ND	10.17	8.64	7.29	6.24
	H3881R-14C-ND	12.07	10.25	8.66	7.41
	H3882R-14C-ND	11.75	9.98	8.43	7.21
	H3883R-14C-ND	11.25	9.56	8.07	6.90

† **1** = White, **2** = Black, **3** = Silver Satin

I/O INTERCONNECT Modular Cable

Flat modular line cord is available in either straight or coiled.

Straight: H004R is sold in hanks of 100, 500 and 1,000 feet, spools of 2,000 feet; H006R, H008R H010 and H010R are sold in hanks of 100 and 500 feet, spools of 1,000 feet.

Coiled: Hxx4☐C, Hxx4☐RC, Hxx6☐C, Hxx6☐RC, Hxx8☐C, Hxx8☐RC, Hxx10☐C and Hxx10☐RC are sold in 5, 7, 10 and 14 feet approximate optimum in three colors—white (designated by 1 for ☐ in part number), black (designated by 2 for ☐ in part number) and silver satin (designated by 3 for ☐ in part number).

View Ridge Up
4-Conductor Cable

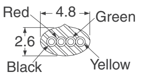

View Ridge Up
6-Conductor Cable

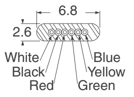

View Ridge Up
8-Conductor Cable

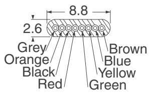

View Ridge Up
10-Conductor Cable

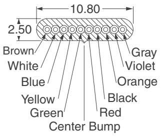

Number of Conductors	Length Feet (Meter)	Digi-Key Part No.‡	Price Each 1	10	100
Coiled Line Cord – 5 ft. (1.52 meter), 7 ft. (2.13 meter), 10 ft. (3.05 meter) and 14 ft. (4.27 meter) approximate extended lengths - 26 AWG					
4	5 (1.52)	H054☐C-ND	2.64	2.38	2.12
	7 (2.13)	H0741C-ND	2.79	2.52	2.24
	10 (3.05)	H1042C-ND	4.11	3.70	3.29
	10 (3.05)	H1043C-ND◆	3.42	3.08	2.74
6	5 (1.52)	H0563C-ND	2.79	2.52	2.24
	7 (2.13)	H076☐C-ND	2.88	2.60	2.31
	10 (3.05)	H1061C-ND◆	5.16	4.65	4.13
	10 (3.05)	H1062C-ND◆	5.16	4.65	4.13
8	5 (1 .52)	H146☐C-ND◆	6.06	5.46	4.85
	7 (2.13)	H0583C-ND	6.12	5.51	4.90
	10 (3.05)	H078☐C-ND	4.86	4.38	3.89
	10 (3.05)	H108☐C-ND	7.20	6.48	5.76
	14 (4.27)	H1481C-ND	8.16	7.35	6.53
	14 (4.27)	H1483C-ND◆	7.95	7.16	6.36
10	5 (1.52)	H0510☐C-ND◆	5.37	4.84	4.30
	7 (2.13)	H0710☐C-ND◆	5.58	5.03	4.47
	10 (3.05)	H1010☐C-ND◆	7.14	6.43	5.72
	14 (4.27)	H1410☐C-ND◆	7.95	7.16	6.36

Number of Conductors	Length Feet (Meter)	Digi-Key Part No.‡	Price Each 1	10	100
Coiled Line Cord – 5 ft. (1.52 meter), 7 ft. (2.13 meter), 10 ft. (3.05 meter) and 14 ft. (4.27 meter) approximate extended lengths - 26 AWG — RoHS Compliant					
4	5 (1.52)	H0541RC-ND	4.68	4.22	3.75
		H0542RC-ND	4.05	3.65	3.24
		H0543RC-ND	3.96	3.57	3.17
	7 (2.13)	H0741RC-ND	5.10	4.59	4.08
		H0742RC-ND	5.10	4.59	4.08
		H0743RC-ND	4.74	4.27	3.80
	10 (3.05)	H1041RC-ND	7.44	6.70	5.96
		H1042RC-ND	7.11	6.40	5.69
		H1043RC-ND	6.06	5.46	4.85
	14 (4.27)	H1441RC-ND	8.61	7.75	6.89
		H1442RC-ND	7.65	6.89	6.12
		H1443RC-ND	8.16	7.35	6.53
6	5 (1.52)	H0561RC-ND	3.69	3.33	2.96
		H0562RC-ND	3.69	3.33	2.96
		H0563RC-ND	4.26	3.84	3.41
	7 (2.13)	H0761RC-ND	5.91	5.32	4.73
		H0762RC-ND	5.70	5.13	4.56
		H0763RC-ND	6.12	5.51	4.90
	10 (3.05)	H1061RC-ND	8.75	7.88	7.00
		H1062RC-ND	8.75	7.88	7.00
		H1063RC-ND	5.55	5.00	4.44
	14 (4.27)	H1461RC-ND	8.75	7.88	7.00
		H1462RC-ND	9.93	8.94	7.95
		H1463RC-ND	9.51	8.56	7.61
8	5 (1.52)	H0581RC-ND	6.75	6.08	5.40
		H0582RC-ND	6.12	5.51	4.90
		H0583RC-ND	7.20	6.48	5.76
	7 (2.13)	H0781RC-ND	6.93	6.24	5.55
		H0782RC-ND	6.42	5.78	5.14
		H0783RC-ND	6.55	5.90	5.25
	10 (3.05)	H1081RC-ND	10.59	9.54	8.48
		H1082RC-ND	10.26	9.24	8.21
		H1083RC-ND	9.76	8.78	7.81
	14 (4.27)	H1481RC-ND	11.91	10.72	9.53
		H1482RC-ND	11.55	10.40	9.24
		H1483RC-ND	10.98	9.89	8.79

Number of Conductors	Digi-Key Part No.‡†	Pricing 100 ft.	500 ft.	1,000 ft.	2,000 ft.
Straight Line Cord - 26 AWG — RoHS Compliant					
4	H0041R-X-ND	12.52	57.37	104.31	166.90
	H0042R-X-ND	12.52	57.37	104.31	166.90
	H0043R-X-ND	12.52	57.37	104.31	166.90
6	H0061R-X-ND	22.82	104.57	152.10	—
	H0062R-X-ND	22.82	104.57	152.10	—
	H0063R-X-ND	22.82	104.57	152.10	—
8	H0081R-X-ND	32.66	149.67	217.70	—
	H0082R-X-ND	32.66	149.67	217.70	—
	H0083R-X-ND	32.66	149.67	217.70	—
10	H0101R-X-ND	56.70	259.88	378.00	—
	H0102R-X-ND	56.70	259.88	378.00	—
	H0103R-X-ND	56.70	259.88	378.00	—

‡ **1** = White, **2** = Black, **3** = Silver Satin † "X" in the Digi-Key Part Number represents number of feet.
◆ ***RoHS Complaint***

Paladin Tools® Tools

Tester Data/Link ID and Cable-Check™

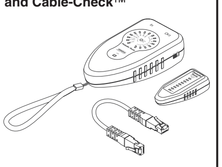

Mini-Stripax® Plus

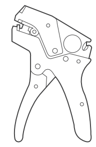

Stripax® Pro 6

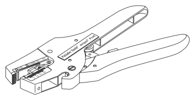

LAN ProNavigator™ Test Set

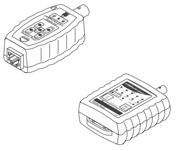

Tester Data/Link ID and Cable-Check™: Tests UTP, STP and flat satin cables with RJ45 terminations. Tests both data and phone connection schemes including patch cords and installed cables to identify: • Good connections • Opens • Shorts • Cross-connections. Identifies data and link transmission speeds with real time detection: 100 MB and 10 MB. Detect PC (NIC) and HUB data transmissions and PC (NIC) and HUB NLP or FLP link pulse.

SureStrip® 4.0: High quality wire stripping and cutting tool for 20-12 AWG (0.5 ~ 4.0 mm^2) • Strips stranded and solid conductors with PVC insulation • Strips multiple conductors and thin, ribbon-cable conductors simultaneously • Built-in wire cutter • Precision self-adjusting blades prevent wire damage • Strips double-insulated cable in two work cycles • User-replaceable stripping blades • Adjustable wire stop to set strip lengths • Value stripper to prepare wire for wire and ferrule termination

Mini-Stripax® Plus: Universal wire stripper and cutter that uses changeable blades to strip PVC and Teflon® insulation. Strips PVC-insulated wire in the range of 28-18 AWG (0.80 ~ 1.0 mm^2) and Teflon-insulated wire in the range of 32-18 AWG (.032 ~ 1.00 mm^2) • Strips flexible and solid conductors with PVC, Teflon, silicone and other special insulations • Strips multiple conductors and thin ribbon-cable conductors simultaneously • Adjustable wire stop and built-in wire cutter • 28-18 AWG (0.80 ~ 1.00 mm^2) PVC blade included

Stripax® Pro 6 Strippers: The new stripax performs powerful stripping of standard and industrial insulations including PVC, THHN, THHW, silicone and polyethylene. Stripping blades are composed of 68 individual spring-compression blades to adjust precisely to the insulation. Not for Teflon or Kapton hard insulations.

LAN ProNavigator™: Two-piece tester includes main unit and remote with test results at both ends. One-button, simple testing (PASS/FAIL or fault find). Detects opens, shorts, crossed wires and split pairs. Cable types, RG58, RG59, RG6, RG6 Quad, Belden 8281, RG8, RG11, CAT-5, CAT 5e or CAT-6 (UTP/STP) cable.

Description	Digi-Key Part No.	Price Each	Paladin Tools Part No.
Tester Data/Link ID and Cable-Check	1576-ND	59.99	1576
Sure Strip 4.0 (AWG 20-12)	PA904893-ND	69.99	904893
Mini-Stripax Plus (AWG 28-18)	PAL1115-ND	89.99	1115P
Replacement Blade for PAL1115-ND	PAL2108-ND	21.99	2108
Stripax Pro 6 (AWG 28-10)	PAL1113.1-ND	85.99	1113.1
LAN ProNavigator Test Set (main and remote), 2 RJ45 Patch Cords, 2 Belt Clips	PAL1543.1-ND	99.99	1543

Crimp Tools

- Fully ratcheting cycle
- Adjustable crimp tension
- Hardened dies for long life
- Crimp 4, 6, and 8 position
- Cuts and strips cable
- RJ45, RJ11

PAL1530R-ND

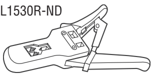

PAL1530R-ND Modular Crimp Tool **$126.99**
PAL2530-ND Replacement Blade Set (for 1530R)..... **$9.99**

Cable Tester

Features: • Tests over 20 types of patch cables up to 1,000 feet in length (600 feet for 75Ω coax) • LAN and telephone • Serial • Coax 50 and 75Ω • USB • VGA • Mini- SB • S-video • FireWire • PS/2 keyboard • Parallel printer • 9V battery included

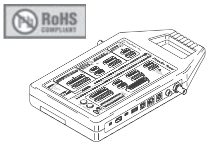

PAL1577-ND Tool PC Cable Tester.................................. **$179.99**

Data and Telephone Tool

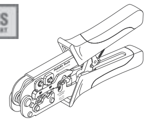

Features: • Crimping cavities for RJ45, RJ11/RJ12 and RJ22 handset modular plugs • Cuts and strips round UTP/STP phone and data cable along with flat satin phone cable • 22-28 AWG (.08 ~ .34mm^2) flat or round; solid or stranded telephone and data cables

PAL1556-ND All-in-One Data and Telephone Tool................................ **$45.99**

Modular Connectors and Jacks

Modular Plugs:
Product Facts: • FCC and TIA/EIA industry standard size and performance • True mass displacement termination of jacketed cable with tinsel, solid or stranded conductors • Available for round or flat-oval cable • One-piece construction with preloaded contacts • Selectively gold plated terminals • Plugs supplied in loose piece form, some available in strip form • Various positions and housing styles available • Semiautomatic and manual termination capabilities **Electrical Specifications:** • Current Rating: 1.5 Amp maximum @ 25°C, derated to 0.2 Amp maximum @ 70°C ambient • Voltage Rating: 150VAC maximum • Dielectric Withstanding Voltage: 1000VAC • Insulation Resistance: 500MΩ **Mechanical Specifications:** • Cable-to-plug tensile strength: 17lbs. (76N) minimum • Durability: 750 mating cycles • Temperature Rating: -40°C ~ 60°C

External Strain Relief:
Product Facts: • Positively engaged to the plug housing • Improved shield contact path redundant contact points • 360° wrap on cable jacket and shield foil, extraordinary strain relief • Improved shield coverage of housing • For 8 to 10 position plugs

Single-Port Modular Jacks:
Product Facts: • Meets or exceeds FCC Part 68 rules and regulations; REA PE-76 and UL 1863 Communication Circuit Accessories • Meets 1000 volt dielectric requirement • Designed for direct mounting on PC boards • Designed for ease of soldering and board cleaning • Selectively gold plated contacts for lower cost • All jacks are UL 94V-0 flame retardant polyester, standard color black, unless specified otherwise **Electrical Specifications:** • Current Rating: 1.5 Amp maximum @ 25°C, derated to 0.2 Amp maximum @ 70°C ambient • Voltage Rating: 150VAC maximum • Dielectric Withstanding Voltage: 1000VAC, RMS, 60 Hz, 1 minute • Surge Test: to 1000 volts **Mechanical Specifications:** • PC Board Retention: will not dislodge from PC board when subjected to 1lb. (4.4N) pull before soldering and 10lbs. (44N) pull after soldering • Durability: 750 mating cycles **Material and Finish:** • Housing: Thru-hole: Polyester, UL 94V-0 rated; Surface mount: Polyphenylene Sulfide, UL 94V-0 rated • Contact: .014 (0.36) thick phosphor bronze; plated .50μ" gold in contact area and 150μ" tin-lead on solder tails, over .50μ" nickel underplate

Multi-Port Modular Jacks:
Product Facts: • Meets or exceeds FCC Part 68 rules and regulations with standard pc board footprints • Low profile and narrow width allow more ports to be packed into less space • Unshielded and shielded versions in popular size configurations • Positive connection throughout life of equipment with insert molded contacts • Accurately positioned solder tails reduce assembly labor while selectively deposited gold plating results in lower cost • Center mounting leg available on 8 port shielded and unshielded versions • Available with two grounding paths; pc board and panel **Electrical Specifications:** • Current Rating: 1.5 Amp maximum @ 25°C • Voltage Rating: 150VAC maximum • Dielectric Withstanding Voltage: 1000VAC • Insulation Resistance: 500MΩ • Shielding Effectiveness: 20dB minimum, 10 to 200 MHz **Mechanical Specifications:** • Durability: 750 mating cycles • Mating/Unmating Forces: 5lbs. maximum • Operating Temperature: -40°C ~ 60°C **Material and Finish:** • Housing: High temperature nylon, black UL 94V-0 rated • Contact: .013 (0.33) phosphor bronze; plated .50μ" gold in localized area and 150μ" tin-lead on solder tails, over .50μ" nickel underplate • Shield: .010 (0.25) or .0077 (0.20) copper alloy tin-lead plated

Fig. 1 — Standard

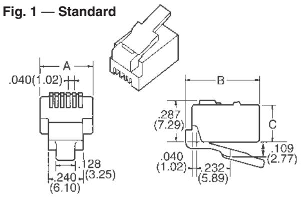

Fig. 2 — Standard

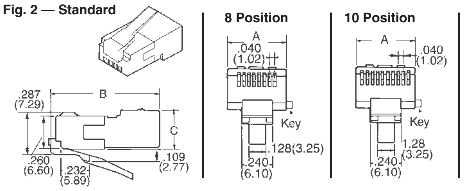
8 Position

10 Position

External Strain Relief

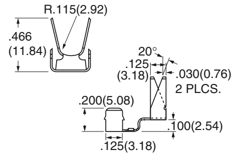

Fig. 3 — Top Entry

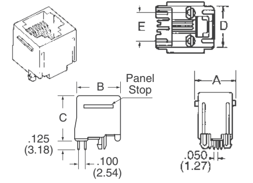

Fig. 4 ***NEW!*** — Top Entry

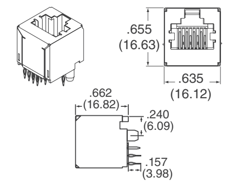

Fig. 5 ***NEW!*** — Top Entry with Wings

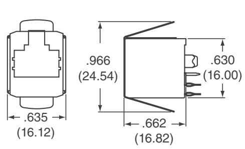

Fig. 6 ***NEW!*** —SMD Top Entry Invertable

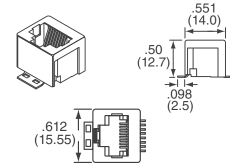

Fig. 7 — Side Entry

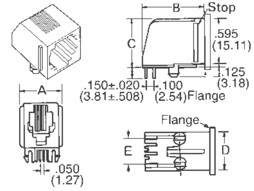

Fig. 8 ***NEW!*** — Side Entry Inverted

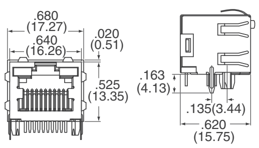

Fig.	Description	Positions Contacts	Dimensions - Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
	Modular Plugs and External Strain Relief											
1	Plug, Handset, Stranded, Flat Oval	4-4	.300(7.62)	.525(13.33)	.260(6.60)	—	—	A9091-ND◆	.26	.21	.17	5-641334-3
	Plug, Stranded, Flat Oval	6-4	.380(9.65)	.525(13.33)	.260(6.60)	—	—	A9092-ND◆	.26	.21	.17	5-641335-3
	Plug, Solid, Flat Oval	6-4	.380(9.65)	.525(13.33)	.260(6.60)	—	—	A9116-ND◆	.41	.34	.27	5-556384-3
	Plug, Stranded, Flat Oval	6-6	.380(9.65)	.525(13.33)	.260(6.60)	—	—	A9093-ND◆	.31	.25	.20	5-641337-3
	Plug, Solid, Flat Oval	6-6	.380(9.65)	.525(13.33)	.325(8.25)	—	—	A9118-ND◆	.42	.34	.27	5-555042-3
	Plug, Stranded, Round	6-6	.380(9.65)	.525(13.33)	.325(8.25)	—	—	A9117-ND◆	.39	.32	.26	5-554710-3
	Plug, Small Solid, Flat Oval	6-6	.380(9.65)	.525(13.33)	.325(8.25)	—	—	A9119-ND◆	.63	.51	.41	5-557970-3
	Plug, Long Body, Solid, Flat Oval	6-6	.380(9.65)	.900(22.86)	.325(8.25)	—	—	A9120-ND◆	.85	.68	.55	5-555426-3
	Plug, Stranded, Round Long	6-6	.380(9.65)	.900(22.86)	.325(8.25)	—	—	A9122-ND◆	.79	.64	.51	5-555177-3
	Plug, Stranded, Flat Oval, Long	6-6	.380(9.65)	.900(22.86)	.325(8.25)	—	—	A9121-ND◆	.79	.64	.51	5-555176-3
	Plug, Stranded, Shielded, Round Long	6-6	.380(9.65)	.900(22.86)	.325(8.25)	—	—	A9128-ND◆	2.01	1.62	1.29	5-555175-3
	Plug, Shielded, Long Body, Oval	6-6	.380(9.65)	.900(22.86)	.325(8.25)	—	—	A9027-ND◆	1.57	1.26	1.01	5-555174-2
	Plug, Stranded, Flat Oval	6-2	.384(9.76)	.530(13.47)	.264(6.71)	—	—	A24921-ND◆	.29	.24	.19	5-641333-2
	Plug, Solid, Flat Oval, Small	6-4	.384(9.76)	.530(13.47)	.264(6.71)	—	—	A24922-ND§◆	.81	.65	.52	5-557965-2
2	Plug, Stranded, Flat Oval	8-8	.460(11.68)	.845(21.46)	.312(7.92)	—	—	A9094-ND◆	.59	.48	.38	5-554739-3
	Plug, Solid, Flat Oval	8-8	.464(11.79)	.895(22.73)	.314(7.98)	—	—	A9126-ND◆	.63	.51	.41	5-554720-3
	Plug, Solid, Round	8-8	.464(11.79)	.895(22.73)	.314(7.98)	—	—	A9123-ND◆	.63	.51	.41	5-557315-3
	Plug, Stranded, Round	8-8	.464(11.79)	.895(22.73)	.314(7.98)	—	—	A9125-ND◆	.59	.48	.38	5-554169-3
	Plug, Stranded, Small, Round, Cable	8-8	.464(11.79)	.895(22.73)	.314(7.98)	—	—	A24923-ND◆	.41	.33	.27	5-557961-2
	Plug, Solid, Round, Keyed	8-8	.464(11.79)	.895(22.73)	.314(7.98)	—	—	A9127-ND◆	.59	.48	.39	5-554170-3
	Plug, High Performance, Stranded, Round	8-8	.464(11.79)	.895(22.73)	.314(7.98)	—	—	A9059-ND◆	.87	.70	.56	5-558530-3
	Plug, Stranded, Shielded, High Perform., Round	8-8	.464(11.79)	.895(22.73)	.314(7.98)	—	—	A9111-ND◆	2.11	1.69	1.35	5-569552-3
	Plug, Solid, Shielded, High Performance, Round	8-8	.464(11.79)	.895(22.73)	.314(7.98)	—	—	A9112-ND◆	2.08	1.67	1.34	5-569550-3
	Plug, Solid, Unshielded, High Performance	8-8	.464(11.79)	.895(22.73)	.314(7.98)	—	—	A24920-ND◆	.94	.75	.60	5-569278-3
	Plug, Solid, Flat Oval, Small	8-8	.464(11.79)	.895(22.73)	.314(7.98)	—	—	A24924-ND§◆	.63	.51	.41	5-557972-2
	Plug, Stranded, Flat Oval, Small	8-8	.464(11.79)	.895(22.73)	.314(7.98)	—	—	A24925-ND§◆	.65	.53	.42	5-557973-3
	Plug, Stranded, Shielded, Flat Oval	8-8	.464(11.79)	.915(23.24)	.330(8.38)	—	—	A9113-ND◆	1.85	1.48	1.19	5-569542-3
	Plug, Stranded, Shielded, Round Long	8-8	.464(11.79)	.915(23.24)	.330(8.38)	—	—	A9114-ND◆	1.85	1.48	1.19	5-569532-3
	Plug, Solid, Shielded, Round	8-8	.464(11.79)	.915(23.24)	.330(8.38)	—	—	A9115-ND◆	2.01	1.61	1.29	5-569530-3
	Plug, Stranded, Round	10-10	.464(11.79)	.895(22.73)	.314(7.98)	—	—	A9129-ND◆	1.75	1.41	1.13	5-557963-3
	External Strain Relief Modular Connector	—	—	—	—	—	—	A9130-ND◆	—	.79	.71	558527-1
	Crimp Tool Assembly, External Strain Relief	—	—	—	—	—	—	A9800-ND	189.68	—	—	224928-1
	Die Set, Strain Relief Modular, use with A9996	—	—	—	—	—	—	A9801-ND	149.24	—	—	224928-2
	Pro-Crimper II Hand Tool Without Die	—	—	—	—	—	—	A9996-ND	66.00	—	—	354940-1
	Single-Port Modular Jacks											
3	Jack With Stops	4-4	.555(14.10)	.630(16.00)	.650(16.51)	.455(11.56)	.300(7.62)	A31409-ND◆	.65	.56	.44	5520257-2
	Jack With Stops	6-4	.635(16.13)	.630(16.00)	.650(16.51)	.535(13.59)	.400(10.16)	A31410-ND◆	.69	.60	.47	5520258-2
	Jack With Panel Stops	6-6	.635(16.13)	.630(16.00)	.650(16.51)	.535(13.59)	.400(10.16)	A31411-ND◆	.71	.61	.49	5520258-3
	Jack With Stops	8-8	.715(18.16)	.630(16.00)	.650(16.51)	.625(15.88)	.450(11.43)	A31412-ND◆	.73	.63	.50	5520259-4
	Jack With Stops, Keyed	8-8	.715(18.16)	.630(16.00)	.650(16.51)	.625(15.88)	.450(11.43)	A31413-ND◆	.94	.81	.64	5520260-4
	Jack, Top Entry Without Stops	4-4	—	.630(16.00)	.650(16.51)	.455(11.56)	.300(7.62)	A31431-ND◆	.83	.72	.57	5558872-1
	Jack, Top Entry Without Stops	6-4	—	.630(16.00)	.650(16.51)	.535(13.59)	.400(10.16)	A31414-ND◆	1.57	1.36	1.07	5520425-2
	Jack, Top Entry Without Stops	6-6	—	.630(16.00)	.650(16.51)	.535(13.59)	.450(11.43)	A31415-ND◆	.85	.74	.58	5520425-3
	Jack, Top Entry Without Stops	8-8	—	.630(16.00)	.650(16.51)	.625(15.88)	.450(11.43)	A31428-ND◆	.73	.63	.50	5556416-1
	Jack, Top Entry Without Stops, Keyed	8-8	—	.630(16.00)	.650(16.51)	.620(15.75)	.450(11.43)	A31425-ND◆	1.27	1.10	.87	5555799-1
	Jack, Top Entry With Stops, Shielded	8-8	.710(18.03)	.660(16.77)	.660(16.77)	.650(16.51)	.450(11.43)	A98458-ND◆ ***NEW!***	2.49	2.08	1.66	5557484-1
	Jack, Top Entry With Stops, Shielded	8-8	.715(18.17)	.660(16.77)	.660(16.77)	.650(16.51)	.450(11.43)	A31430-ND◆	1.42	1.23	.97	5557969-1
	Jack, Top Entry With Stops, Shielded	8-8	.715(18.17)	.660(16.77)	.660(16.77)	.650(16.51)	.450(11.43)	A97708-ND◆ ***NEW!***	3.29	2.84	2.24	5557969-2
	Jack, Top Entry With Stops, Shielded, Keyed	8-8	.715(18.17)	.660(16.77)	.660(16.77)	.650(16.51)	.450(11.43)	A31429-ND◆	1.49	1.28	1.02	5557730-1
	Jack, Top Entry With Stops, Offset Latch	6-6	.630(16.00)	.630(16.00)	.645(16.38)	.535(13.59)	.400(10.16)	A36246-ND◆	.88	.76	.61	5554990-1
4	Jack Without Stops, PCB Ground	8-8	—	—	—	—	—	A97702-ND◆ ***NEW!***	3.25	2.80	2.21	6116202-1
5	Jack Without Stops, Panel and PCB Ground	8-8	—	—	—	—	—	A97711-ND◆ ***NEW!***	3.25	2.80	2.21	6116418-1

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel § Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Modular Connectors and Jacks *(Cont.)*

Fig. 9 *NEW!* — Side Entry

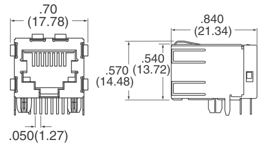

Fig. 10 *NEW!* — Side Entry

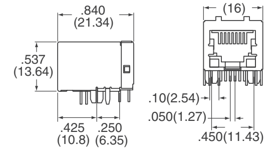

Fig. 11 *NEW!* — Side Entry, Low Profile

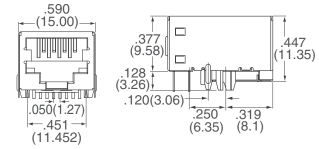

Fig. 12 – Side Entry

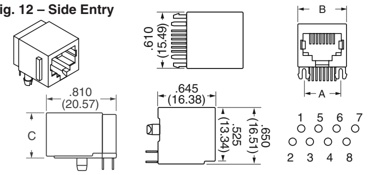

Fig. 13 – Side Entry, Low Profile

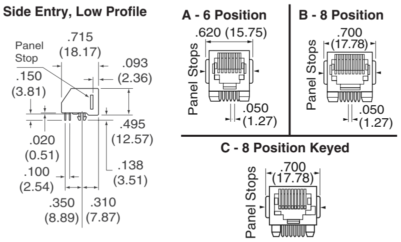

Fig. 14 – Side Entry

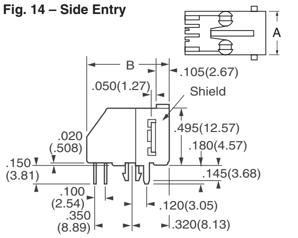

Fig. 15 – Side Entry, Surface Mount

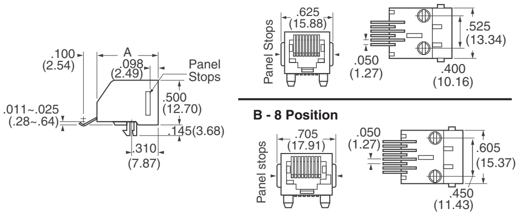

Fig. 16 – Side Entry

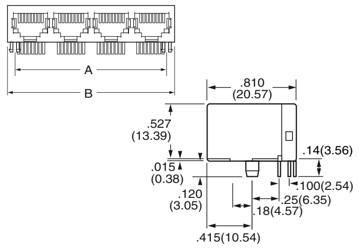

Fig. 17 – Side Entry

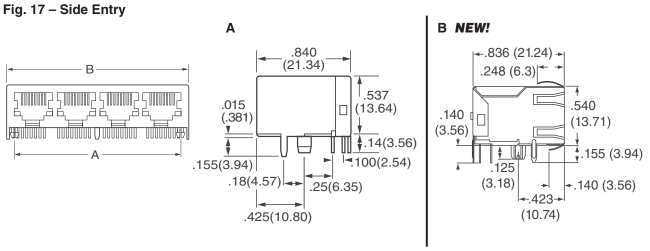

Fig. 18 *NEW!* – Side Entry

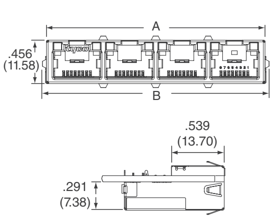

Fig.	Description	Positions Contacts	Dimensions - Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
	Single-Port Modular Jacks (Cont.)											
6	Jack Without Stops, Without Grounding Options	8-8	—	—	—	—	—	A98534CT-ND†◆ ***NEW!*** A98534TR-ND‡◆ ***NEW!***	1.66 232.06/250	1.33	1.07	1-338088-6 1-338088-6
7	Jack, Side Entry With Panel Stops	4-4	.540(13.72)	.825(20.96)	.630(16.00)	.440(11.18)	.300(7.62)	A31403-ND◆	1.15	.99	.78	5520249-2
	Jack, Side Entry With Panel Stops	6-2	.620(15.75)	.825(20.96)	.630(16.00)	.520(13.21)	.400(10.16)	A31404-ND◆	.86	.74	.59	5520250-1
	Jack, Side Entry With Panel Stops	6-4	.620(15.75)	.825(20.96)	.630(16.00)	.520(13.21)	.400(10.16)	A31405-ND◆	.73	.64	.50	5520250-2
	Jack, Side Entry With Panel Stops	6-6	.620(15.75)	.825(20.96)	.630(16.00)	.520(13.21)	.400(10.16)	A31406-ND◆	.75	.65	.52	5520250-3
	Jack, Side Entry With Panel Stops, Offset	6-6	.625(15.88)	.820(20.83)	.635(16.13)	.525(13.34)	.400(10.16)	A32488-ND◆	.88	.71	.57	5555003-1
	Jack, Side Entry With Panel Stops	8-8	.700(17.78)	.825(20.96)	.630(16.00)	.600(15.24)	.450(11.43)	A31407-ND◆	.85	.74	.58	5520251-4
	Jack, Side Entry With Panel Stops, Keyed	8-8	.700(17.78)	.820(20.83)	.630(16.00)	.600(15.24)	.450(11.43)	A31408-ND◆	.93	.81	.64	5520252-4
	Jack, Side Entry With Flange	4-4	.570(14.48)	.825(20.96)	.680(17.27)	.440(11.18)	.300(7.62)	A31399-ND◆	1.12	.97	.77	5520241-2
	Jack, Side Entry With Flange	6-4	.650(16.51)	.825(20.96)	.680(17.27)	.520(13.21)	.400(10.16)	A31400-ND◆	3.07	2.65	2.10	5520242-2
	Jack, Side Entry With Flange	6-6	.650(16.51)	.825(20.96)	.680(17.27)	.520(13.21)	.400(10.16)	A31401-ND◆	.90	.78	.62	5520242-3
	Jack, Side Entry With Flange	8-8	.730(18.54)	.820(20.83)	.680(17.27)	.600(15.24)	.450(11.43)	A9080-ND	3.27	2.82	2.23	520243-4
	Jack, Side Entry With Flange	8-8	.730(18.54)	.810(20.57)	.680(17.27)	.600(15.24)	.450(11.43)	A31402-ND◆	3.06	2.63	2.08	5520243-4
	Jack Without Panel Stops and Flange	4-4	.440(11.18)	.810(20.57)	.630(16.00)	—	.300(7.62)	A31427-ND◆	.88	.76	.60	5555980-1
	Jack Without Panel Stops and Flange	6-4	.520(13.21)	.820(20.83)	.630(16.00)	—	.400(10.16)	A31426-ND◆	.69	.60	.47	5555979-1
	Jack Without Panel Stops and Flange	6-6	.520(13.21)	.820(20.83)	.630(16.00)	—	.400(10.16)	A31417-ND◆	.95	.82	.65	5520470-3
	Jack Without Panel Stops and Flange	8-8	.600(15.24)	.820(20.83)	.630(16.00)	—	.450(11.43)	A31416-ND◆	1.02	.88	.70	5520426-4
	Jack Without Panel Stops and Flange, Keyed	8-8	.600(15.24)	.810(20.57)	.630(16.00)	—	.450(11.43)	A31418-ND◆	1.93	1.67	1.32	5554517-1
8	Jack w/o Stops, Panel and PCB Ground	8-8	—	—	—	—	—	A97716-ND◆ ***NEW!***	2.23	1.92	1.52	1-406541-1
	Jack w/o Stops, Panel and PCB Ground, w/ Yel-Grn LED	8-8	—	—	—	—	—	A97715-ND◆ ***NEW!***	2.63	2.26	1.79	2-406549-1
	Jack w/o Stops, Panel and PCB Ground, w/ Grn-Yel LED	8-8	—	—	—	—	—	A97705-ND◆ ***NEW!***	2.63	2.26	1.79	2-406549-4
9	Jack Without Stops, Panel and PCB Ground	8-8	—	—	—	—	—	A97706-ND◆ ***NEW!***	3.38	2.91	2.30	5406299-1
10	Jack w/o Stops, PCB Ground	8-8	—	—	—	—	—	A97707-ND◆ ***NEW!***	1.89	1.63	1.29	5557786-1
	Jack w/o Stops, Panel and PCB Ground, w/ Grn-Yel LED	8-8	—	—	—	—	—	A97717-ND◆ ***NEW!***	4.90	4.22	3.34	5569564-1
11	Jack Without Stops, PCB Ground	8-8	—	—	—	—	—	A97703-ND◆ ***NEW!***	3.75	3.23	2.55	1116503-2
12	Jack, Unshielded With Panel Stops	8-8	.625(15.88)	.840(21.34)	.537(13.64)	—	—	A31467-ND◆	4.78	4.11	3.25	5558343-1
	Jack, Unshielded Without Panel Stops	8-8	.625(15.88)	.840(21.34)	.537(13.64)	—	—	A31465-ND◆	2.20	1.90	1.50	5558341-1
	Jack, Shielded, PC Ground	8-8	.625(15.875)	.840(21.34)	.537(13.64)	—	—	A31466-ND◆	2.79	2.23	1.79	5558342-1
	Jack, Shielded, Panel Ground	8-8	.625(15.875)	.840(21.34)	.537(13.64)	—	—	A31468-ND◆	3.38	2.70	2.16	5558344-1
13A	Jack With Stops	6-6	—	—	—	—	—	A31420-ND◆	.94	.81	.64	5555163-1
	Jack With Stops	6-4	—	—	—	—	—	A31421-ND◆	1.55	1.34	1.06	5555163-2
	Jack Without Stops	6-6	—	—	—	—	—	A31422-ND◆	.76	.66	.52	5555165-1
	Jack Without Stops	6-4	—	—	—	—	—	A31423-ND◆	.73	.63	.50	5555165-2
	Jack Without Stops	6-2	—	—	—	—	—	A24907-ND	2.12	1.83	1.45	555165-5
	Jack Without Stops	6-2	—	—	—	—	—	A31443-ND◆	1.99	1.71	1.36	5555165-5
	Jack Without Stops	6-6	—	—	—	—	—	A31476-ND◆	1.11	.96	.76	5569026-1
13B	Jack With Stops	8-8	—	—	—	—	—	A31419-ND◆	1.01	.88	.69	5555162-1
	Jack Without Stops	8-8	—	—	—	—	—	A31442-ND◆	.82	.71	.56	5555164-1
	Jack Without Stops, Keyed	8-8	—	—	—	—	—	A31477-ND◆	1.20	1.04	.82	5569118-1
13C	Jack With Stops, Keyed	8-8	—	—	—	—	—	A31424-ND◆	.82	.71	.56	5555166-1
	Jack Without Stops, Keyed	8-8	—	—	—	—	—	A31444-ND◆	.82	.71	.56	5555167-1
14	Jack, PC Ground	6-6	.559(14.20)	.730(18.54)	—	—	—	A31440-ND◆	1.09	.88	.70	5555154-1
	Jack, PC Ground	6-4	.559(14.20)	.730(18.54)	—	—	—	A31441-ND◆	1.25	1.00	.80	5555154-2
	Jack, PC Ground	8-8	.640(16.26)	.735(18.67)	—	—	—	A31438-ND◆	1.17	.94	.75	5555153-1
	Jack, PC Ground	8-8	.640(16.26)	.735(18.67)	—	—	—	A31439-ND◆	1.35	1.08	.87	5555153-6
	Jack, PC Ground, Keyed	8-8	.640(16.26)	.735(18.67)	—	—	—	A31447-ND◆	1.52	1.22	.98	5556591-1
	Jack, Panel Ground	6-6	.559(14.20)	.730(18.54)	—	—	—	A31435-ND◆	1.28	1.02	.82	5555140-1
	Jack, Panel Ground	6-4	.559(14.20)	.730(18.54)	—	—	—	A31436-ND◆	1.25	1.00	.80	5555140-2
	Jack, Panel Ground	8-8	.640(16.26)	.735(18.67)	—	—	—	A31437-ND◆	1.17	.94	.75	5555141-1
	Jack With Stops, Shielded	8-8	.635(16.13)	.728(18.49)	—	—	—	A31464-ND◆	2.51	2.01	1.61	5558178-1

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel § Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Modular Connectors and Jacks *(Cont.)*

Fig.	Description	Positions Contacts	Dimensions - Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
	Single-Port Modular Jacks (Cont.)											
15A	Jack With Stops	6-6	.720(18.29)	—	—	—	—	A31432-ND◆	1.75	1.51	1.19	5555077-1
	Jack With Stops	6-4	.720(18.29)	—	—	—	—	A31433-ND◆	1.73	1.49	1.18	5555077-2
	Jack Without Stops	6-6	.720(18.29)	—	—	—	—	A31448-ND◆	1.75	1.51	1.19	5557314-1
15B	Jack With Stops	8-8	.718(18.24)	—	—	—	—	A31445-ND◆	1.85	1.60	1.26	5555248-1
	Jack With Stops	8-8	.718(18.24)	—	—	—	—	A9038-ND	2.48	2.13	1.69	555078-1
	Jack With Stops	8-8	.718(18.24)	—	—	—	—	A31434-ND◆	2.31	1.99	1.58	5555078-1
	Jack Without Stops	8-8	.718(18.24)	—	—	—	—	A31446-ND◆	1.85	1.60	1.26	5555764-1
16	Jack, Unshielded	8-8	.450(11.43)	.595(15.11)	—	—	—	A31457-ND◆	1.48	1.27	1.01	5557785-1
	Jack, Unshielded	10-10	.450(11.43)	.595(15.11)	—	—	—	A31459-ND◆	2.52	2.17	1.72	5558065-1
	Jack, Unshielded, Keyed	10-10	.450(11.43)	.595(15.11)	—	—	—	A31460-ND◆	3.63	3.12	2.47	5558066-1
17A	Jack, Shielded, PCB Ground	10-10	.450(11.43)	.625(15.88)	—	—	—	A31461-ND◆	4.02	3.22	2.58	5558067-1
	Jack, Shielded, Keyed, PCB Ground	10-10	.450(11.43)	.625(15.88)	—	—	—	A31462-ND◆	6.35	5.09	4.07	5558068-1
	Jack, Shielded, Panel Ground	10-10	.450(11.43)	.625(15.88)	—	—	—	A31463-ND◆	5.02	4.02	3.22	5558070-1
18	Jack, w/o Stops, Panel and PCB Ground, Grn-Yel LED	8-8	.641(16.29)	.728(18.49)	—	—	—	A98526-ND◆ ***NEW!***	4.90	3.92	3.14	1888250-1
	Jack, w/o Stops, Panel and PCB Ground, Grn/Yel-Grn/Yel LED	8-8	.641(16.29)	.728(18.49)	—	—	—	A98527-ND◆ ***NEW!***	6.00	4.80	3.84	1888250-2
	Jack, w/o Stops, Panel and PCB Ground, Without LED	8-8	.641(16.29)	.728(18.49)	—	—	—	A98528-ND◆ ***NEW!***	3.85	3.08	2.47	1888250-3
	Jack, w/o Stops, Panel and PCB Ground, Grn-Grn LED	8-8	.641(16.29)	.728(18.49)	—	—	—	A98529-ND◆ ***NEW!***	4.90	3.92	3.14	1888250-4
	Multi-Port Modular Jacks — RoHS Compliant											
16	Jack, 2 Position, Unshielded	8-8	1.00(25.40)	1.200(30.48)	—	—	—	A31449-ND	2.38	2.05	1.62	5557560-1
	Jack, 3 Position, Unshielded	8-8	1.550(39.37)	1.750(44.45)	—	—	—	A31450-ND	12.88	11.08	8.76	5557561-1
	Jack, 4 Position, Unshielded	8-8	2.100(53.34)	2.300(58.42)	—	—	—	A31451-ND	4.60	3.96	3.13	5557562-1
	Jack, 5 Position, Unshielded	8-8	2.650(67.31)	2.850(72.39)	—	—	—	A31452-ND	5.90	5.08	4.02	5557563-1
	Jack, 6 Position, Unshielded	8-8	3.200(81.28)	3.400(86.36)	—	—	—	A31453-ND	6.95	5.98	4.73	5557564-1
	Jack, 6 Position, Unshielded Without Panel Stops	8-8	3.40(86.36)	.810(20.57)	—	—	—	A31469-ND	18.43	15.85	12.53	558501-1
	Jack, 8 Position, Unshielded	8-8	4.300(109.22)	4.500(114.30)	—	—	—	A31454-ND	9.35	8.05	6.36	5557566-1
17A	Jack, 4 Position, Shielded, PC Ground	8-8	2.33(59.18)	.840(21.34)	.537(13.64)	—	—	A31470-ND	13.13	10.50	8.40	5558503-1
	Jack, 4 Position, Shielded, Panel Ground	8-8	2.33(59.18)	.840(21.34)	.537(13.64)	—	—	A31473-ND	19.60	15.68	12.55	5558524-1
	Jack, 6 Position, Shielded, PCB Ground	8-8	3.200(81.28)	3.430(87.12)	—	—	—	A31455-ND	13.55	11.66	9.22	5557572-1
	Jack, 6 Position, Shielded, Panel Ground	8-8	3.200(81.28)	3.430(87.12)	—	—	—	A31456-ND	8.08	6.95	5.50	5557572-3
	Jack, 6 Position, Shielded, PC Ground	8-8	3.43(87.12)	.840(21.34)	.537(13.64)	—	—	A31471-ND	29.35	23.48	18.79	5558504-1
	Jack, 6 Position, Shielded, Panel Ground	8-8	3.40(86.36)	.810(20.57)	.527(13.39)	—	—	A31474-ND	15.10	12.08	9.67	5558525-1
	Jack, 8 Position, Shielded, PC Ground	8-8	4.53(115.06)	.840(21.34)	.537(13.64)	—	—	A31472-ND	15.83	12.66	10.13	5558505-1
	Jack, 8 Position, Shielded, Panel Ground	8-8	4.53(115.06)	.840(21.34)	.537(13.64)	—	—	A31475-ND	29.85	23.88	19.11	5558526-1
17B	Jack, 8 Position, Shielded, Panel and PCB Ground	8-8	4.30(109.22)	4.526(114.95)	—	—	—	A97712-ND ***NEW!***	8.53	7.34	5.80	6339169-3
18	Jack, 4 Position, Shielded, Panel & PCB Gnd., Grn-Yel LED	8-8	2.313(58.75)	2.378(60.40)	—	—	—	A98530-ND ***NEW!***	16.18	12.94	10.36	1888251-1
	Jack, 4 Pos., Shielded, Panel & PCB Gnd., Grn/Yel-Grn/Yel LED	8-8	2.313(58.75)	2.378(60.40)	—	—	—	A98531-ND ***NEW!***	20.80	16.64	13.32	1888251-2
	Jack, 4 Position, Shielded, Panel & PCB Gnd., Without LED	8-8	2.313(58.75)	2.378(60.40)	—	—	—	A98532-ND ***NEW!***	11.13	8.90	7.12	1888251-3
	Jack, 4 Position, Shielded, Panel & PCB Gnd., Grn-Grn LED	8-8	2.313(58.75)	2.378(60.40)	—	—	—	A98533-ND ***NEW!***	16.18	12.94	10.36	1888251-4

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel § Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product.

Stacked Modular Jacks

Housing: High temperature nylon, black, UL 94V-0 rated
Contact: .013 (0.33) phosphor bronze; plated .000050 (0.00127) gold in localized area and .00150 (0.00381) tin-lead on solder tails, over .000050 (0.00127) nickel underplate
Shield: .010 (0.25) copper alloy tin-lead plated. All jacks are 8 positions / 8 contacts

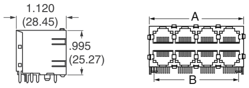

Desc.	Total No. of Ports	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shielded With Panel Ground (plating is tin rather than tin-lead)							
2x1 Ports	2	.68 (17.27)	.45 (11.43)	A31482-ND	9.88	7.90	5569381-1
2x2 Ports	4	1.23 (31.24)	1.00 (25.40)	A97709-ND ***NEW!***	12.23	10.52	5569255-1
2x3 Ports	6	1.78 (45.21)	1.55 (39.37)	A31478-ND	18.75	15.00	5569261-1
2x4 Ports	8	2.33 (59.18)	2.10 (53.34)	A31479-ND	15.25	12.20	5569262-1
2x6 Ports	12	3.43 (87.12)	3.20 (81.28)	A31480-ND	18.48	14.78	5569263-1
2x8 Ports	16	4.53 (115.06)	4.30 (109.22)	A31481-ND	33.50	26.80	5569264-1

NEW! Stacked LED Modular Jacks

Housing: High temperature nylon, black, UL 94V-0 rated
Contact: .013 (0.33) phosphor bronze; plated .000050 (0.00127) gold in localized area and .00150 (0.00381) tin-lead on solder tails, over .000050 (0.00127) nickel underplate
Shield: .010 (0.25) copper alloy tin-lead plated. All jacks are 8 positions / 8 contacts

Fig. 1

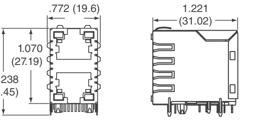

Fig. 2

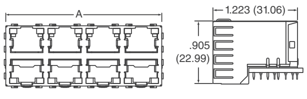

Fig.	Desc.	Total No. of Ports	Dimension A Inch (mm)	LED Color Top Left	Top Right	Bot. Left	Bot. Right	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	2x1 Ports	2	—	Green	Green	Green	Green	A97713-ND	18.88	16.24	6368011-1
	2x1 Ports	2	—	Green	Yellow	Green	Yellow	A97714-ND	10.05	8.65	6368011-3
2	2x4 Ports	8	2.355 (59.82)	Grn/Yel	Grn/Yel	Grn/Yel	Grn/Yel	A97704-ND	53.68	46.17	6368062-4
	2x8 Ports	16	4.655 (118.24)	Green	Yellow	Green	Yellow	A97710-ND	57.15	49.15	6116317-6

Modular Jack with Shorting Bar

Housing: Polysulfone, black, UL 94V-0 rated
Contact: .013 (0.33) phosphor bronze; plated .000050 (0.00127) gold in localized area and .00150 (0.00381) tin on solder tails, over .000050 (0.00127) nickel underplate
Shield: .010 (0.25) copper alloy plated with bright tin over nickel

Description	Shorting Configurations	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shielded PCB Ground Jack					
8-Position RJ-48-X	1 to 4 and 2 to 5	A31458-ND	19.48	16.75	5557789-1

Modular Plugs Tool

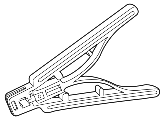

Features:
- Strips and terminates cable
- Lightweight
- Low cost

A9989-ND Crimp Tool for RJ-11 (6) Position Modular Plugs....... **$30.60**

Modular Crimp Tools

Fig. 1

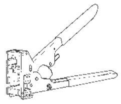

Cuts, strips, crimps and terminates modular plug connectors.
Features: color-coded dies, a cable jacket stripper, smooth ratcheting action to assure positive connector termination and spring-actuated and cushioned handles for fatigue-free use. Available as entire crimping tool, or dies may be purchased separately. Overall size: 7"

Fig. 2

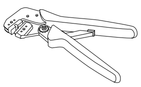

Ratchet control provides complete termination cycle Interchangeable die sets.

Fig.	Description	Digi-Key Part No.	Price Each	AMP Part No.
1	Modular Plug Crimp Tool without Die Set	A9931-ND	85.89	2-231652-0
	Modular Plug Crimp Tool with 4-4 Die Set	A9902-ND	117.41	2-231652-3
	Modular Plug Crimp Tool with 6-6 Die Set	A9901-ND	117.41	2-231652-8
	Modular Plug Crimp Tool w/ 6-6 Long Body Die Set	A9029-ND	117.41	2-231652-7
	Modular Plug Crimp Tool with 6-6 Offset Die Set	A9930-ND	117.41	2-231652-6
	Modular Plug Crimp Tool with 8-8 Die Set	A9900-ND	117.41	2-231652-1
	Modular Plug Crimp Tool w/ 8-8 High Perfor. Die Set	A9929-ND	117.41	3-231652-0
—	4-Position Handset Die Set	A9906-ND	39.41	853400-3
	4-6 Position Die Set	A9905-ND	39.41	853400-8
	6-6 Position Long Body Die Set	A9030-ND	39.41	853400-7
	6-6 Position Offset Die Set	A9927-ND	39.41	853400-6
	8-8 Position Die Set	A9904-ND	39.41	853400-1
	8-8 Position High Performance Die Set	A9926-ND	39.41	1-853400-0
—	Replacement Wire Stripper Blade Set Kit	A9976-ND	35.46	231662-4
	Wire Stripper Replacement Blades	A9928-ND	3.83	231662-5
2	Pro-Crimper II Hand Tool without Dies	A9996-ND	66.00	354940-1
	10-Position, Pro-Crimper II with Die	A9798-ND	290.88	58560-1
—	10-Position Die Set Only, Pro-Crimper II (Use with A9996-ND)	A9799-ND	254.52	58560-2
—	Crimp Tool, External Strain Relief, Pro-Crimper II	A9800-ND	189.68	224928-1
	Die Set, External Strain Relief (for A9996-ND)	A9801-ND	149.24	224928-2

Hand Tool Kit

Contents: Carrying case with frame; RJ-11 (4 and 6) RJ-45 (8)-Position die sets, blade replacement kit and small screwdriver.

A9040-ND Hand Tool Kit **$207.23**

Production Tool Kit

Carrying case with frame; 4-Pos. handset, RJ-11 (4 and 6) RJ-45 (8)-Position die sets, blade replacement kit and small screwdriver.

A9967-ND Production Tool Kit **$245.06**

Tyco Electronics
Authorized Distributor

AMP

Four Position Data Connector for the IEEE 802.5 Local Area Network

Kit Description: Connector (top and bottom cover assemblies), stuffer box, ferrule, dust cover, latch lock and strain relief bushings for 45, 90 and 180 degree cable exit

Cableless Balun Kit: A four position cableless balun kit is available which allows the customer to assemble his own electronic components which are required to convert the balanced twisted-pair cable to unbalanced coaxial cables. This kit contains a single BNC jack receptacle but will accept a second BNC receptacle which can be ordered separately to provide the dual port version.

Material for A9105 and A9106: • Stuffer Cap: Clear polycarbonate • AMP-BARREL Terminal: Tin plated phosphor bronze • Label: Adhesive backed polyester • Contacts: Nickel plated high strength copper alloy having selective gold plating in contact area and selective tin plating in AMP-BARREL terminal area • Housing: Black thermoplastic, 94V-0 rated • Conductor Type: Solid or stranded having .048 maximum insulation O.D.

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Category 3 Modular Telephone Jack						
1	6	IBM	A4004-ND	5.20	4.48	553983-1
2	8	IBM	A4005-ND◆	5.90	5.08	554546-1
1	6	Commercial	A9105-ND◆	5.58	4.80	554171-1
2	8	Commercial	A9106-ND	5.80	4.99	554578-1
Category 3 Panel Mount Coupler — RoHS Compliant						
3	6	Right Angle	A9107-ND	4.28	3.42	555049-1
	8	Right Angle	A9108-ND	4.55	3.64	555051-1
4	6	In-Line	A9109-ND	4.23	3.38	555050-1
	8	In-Line	A9110-ND	4.48	3.58	555052-1
RS-232 to Modular Jack — RoHS Compliant						
5	6	DB25P to RJ11 (6-6)	A35055-ND	14.22	12.45	748100-2
	8	DB25P to RJ45 (8-8)	A33704-ND	22.11	18.43	747772-3
	8	DB25S to RJ45 (8-8)	A35053-ND	14.46	12.66	5-747868-1

◆ ***RoHS Compliant***

Fig. 1 A4004

Three Pair Modular Jack (6 Position)
IBM Equivalent P/N: 83100575

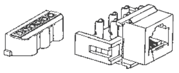

Fig. 2 A4005

Four Pair Modular Jack (8 Position)
IBM Equivalent P/N: 6091030

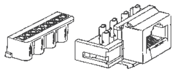

Fig. 3

Compact couplers for two modular plugs; couplers snap into 0.585” x 0.765” (14.86mm x 19.43mm) rectangular wallplate cutouts. Wired one-to-one.

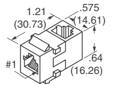

Fig. 4

Compact couplers for two modular plugs; couplers snap into 0.585” x 0.765” (14.86mm x 19.43mm) rectangular wallplate cutouts. Wired one-to-one.

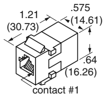

Fig. 5

These versatile connectors convert a 25 position plug or receptacle interface to modular jack interface. Transition Connectors are used most often with data-over-voice and on the dropside or output device side of mainframes, personal or business computers.

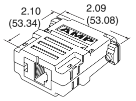

USB Connectors

Figure 1, 2 and 4 Features: • Shell and Contacts: Copper Alloy • Housing: UL 94V-0 rated, thermoplastic • Contacts: 0.076 µm minimum Gold over 0.76 µm minimum Palladium-Nickel on mating area **Figure 3 Features:** • Housing: High temperature thermoplastic UL 94V-0 • Contacts: Phosphor Bronze, 30 µm minimum Gold plated in contact area • Shell: Phosphor Bronze **Figure 5 Features:** • Contact Pin: Copper alloy • Contact Plating: Selectively gold plated over Ni-Pd over nickel • Shell: Stainless steel, tin over nickel plated

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel† Qty.	Pricing	AMP Part No.
1	USB Receptacle Type B, Right Angle	Black	A31725-ND	1.27	1.16	.82	—	—	292304-1
	USB Receptacle Type B, Right Angle	Natural	A98573-ND ***NEW!***	1.88	1.71	1.21	—	—	292304-2
2	USB Receptacle Type A, Right Angle	Black	A31726-ND	1.20	1.09	.77	—	—	292303-1
3	Mini USB Receptacle Type B, Right Angle SMD	Gold	A31727CT-ND‡	1.85	—	1.11	3,500	633.81/M	1734035-2
4	Receptacle, Type A, Right Angle, 4 over 4 Position	Black	A31728-ND	1.77	1.61	1.14	—	—	5787617-1
5	Micro USB Receptacle Type AB, Right Angle, SMD	Gray	A97799CT-ND‡ ***NEW!***	1.58	1.33	1.06	1,000	792.26	1981584-1
	Micro USB Receptacle Type B, Right Angle, SMD	Black	A97800CT-ND‡ ***NEW!***	1.58	1.33	1.06	1,000	792.26	1981568-1

‡ Cut Tape † For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

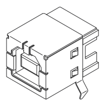

Fig. 2

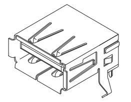

Fig. 3

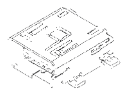

Fig. 4

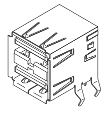

Fig. 5 *NEW!*

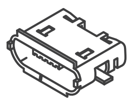

Industrial Ethernet Connectors

Features: • Threaded outer connection • Environmental sealing (IP67 rated) • Vibration resistance • Secure, robust connections • Provides for a reliable performance in electrically noisy conditions found on most factory floors • Compatible with Category 5e cable • Fully intermateable with unshielded product

Dimensions in Inches (mm)

Fig. 1

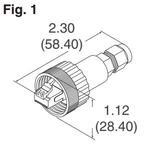

Fig. 2

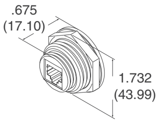

Fig. 3

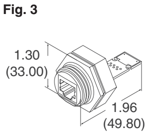

Fig. 4

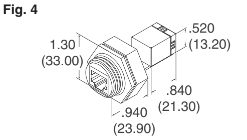

Fig. 5

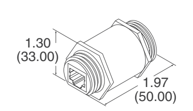

Fig. 6

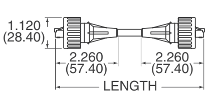

Fig. 7

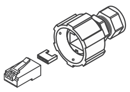

Mates with Fig. 8

Fig. 8

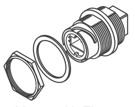

Mates with Fig. 7

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
Plug						
1	Field-Attachable, 0.1-0.26” (2.5-6.5mm) Acceptable Cable Diameter	A30691-ND	18.66	17.29	13.38	1546440-1
Receptacles						
2	Direct PCB Mount 8 Pin, Front-Coupling Through-Hole Receptacle	A34351-ND	29.01	26.89	20.81	1-1546405-1
3	Receptacle with Standard PC Board	A34355-ND	32.04	29.70	22.98	1-1546409-1
	(10 Base-T) with Standard PC Board and 12” (30cm) of Cable	A34356-ND	36.22	33.58	25.98	1-1546410-1
	(568A) with Standard PC Board with 12” (30cm) of Cable	A34357-ND	36.22	33.58	25.98	1-1546411-1
	(568B) with Standard PC Board with 12” (30cm) of Cable	A34358-ND	48.26	44.73	34.61	1-1546412-1
4	RJ-45 Bulkhead Passthrough with Backside RJ-45 Jack	A33706-ND	32.41	30.04	23.25	1546413-3
	RJ-45 Bulkhead Passthrough with 12” (30cm) of Patch Cord	A33707-ND	36.31	33.65	26.04	1546414-4
	RJ-11 Bulkhead Passthrough with Backside RJ-45 Jack	A34359-ND	34.71	32.17	24.89	1-1546415-1
Female-to-Female Adapters						
5	Female-Female RJ45 Jack-Jack	A30690-ND	66.75	61.87	47.87	1546574-1
Double-Ended Cord Set						
6	1 Meter (3.3’) Solid Core Cable, Industrial (both ends)	A34360-ND	74.08	64.82	55.56	1-1546451-1
	5 Meter (16.4’) Solid Core Cable, Industrial (both ends)	A34361-ND	100.20	87.68	75.15	1-1546451-2
	10 Meter (32.8’) Solid Core Cable, Industrial (both ends)	A34362-ND	145.80	127.58	109.35	1-1546451-3
	2 Meter (6.6’) Solid Core Cable, Industrial/Commercial Ends	A34363-ND	95.74	83.78	71.81	1-1546451-4
	2 Meter (6.6’) Stranded Cable, Industrial (both ends)	A34366-ND	89.32	78.16	66.99	1-1546453-1
	5 Meter (16.4’) Stranded Cable, Industrial (both ends)	A34367-ND	100.20	87.68	75.15	1-1546453-2
Caps						
—	Connector Closure Cap IP67 with Lanyard	A34352-ND	15.23	14.12	10.93	1-1546406-1
	Connector Receptacle Cap IP65	A34353-ND	10.43	9.68	7.49	1-1546407-1
	Connector Plug Cap IP67 with Lanyard	A34354-ND	18.43	17.09	13.22	1-1546408-1
Tool						
—	Punchdown, with 110 Blade	A30681-ND	49.50	—	—	1738607-1
Plug Kit						
7	RJ45 Solid Plug Kit	A31778-ND	10.80	10.02	7.75	1738607-1
	RJ45 Strand Plug Kit	A31779-ND	10.80	10.02	7.75	1738607-2
Receptacle Kit						
8	RJ45 Receptacle Kit	A31781-ND	21.89	20.30	15.70	1738601-1
	RJ45 Receptacle Cover	A31780-ND	8.61	7.98	6.18	1738611-1

CONEC®
TECHNOLOGY IN CONNECTORS™

IP67 Sealed Industrial Ethernet Circular RJ45 Connector System

Electrical Specifications: • Meets EIA/TIA-568-B.2 Cat. 5e Specification • IR: 500MΩ minimum @ 100 VDC • DWV: 1000 VDC/60s Contact to Contact • DWV: 1500 VDC/60s Contact to Metal Shell • Contact Resistance: 20mΩ maximum • Current Rating: 1.5A maximum • Working Voltage: 100 V • Operating Temperature: -40°C ~ 85°C

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Conec Part No.
1	Shielded 8 Position Cat. 5e RJ45 Plug, Load Bar and Plug Housing Assembly	626-1294-ND	6.63	4.91	4.06	3.71	3.58	17-10001
2	Receptacle Assembly, Panel Gasket, Panel Nut and Protective Cover Assembly	626-1293-ND	17.48	14.86	12.46	11.59	11.15	17-10000
—	Tool Termination	626-1295-ND	36.06	29.59	25.89	23.58	23.12	360X30029X

Fig. 1

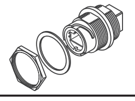

Fig. 2

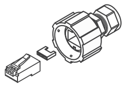

ASSMANN

RoHS COMPLIANT

Waterproof Connectors

Standard and High-Density D-Sub, RJ45 and USB Type-A, Type-B, Circular and Power Connectors that meet the IP66 or IP67 Standard when mated. Durable/Industrial Grade.

Standard and High Density D-Subs: **Specifications:** • Connector: Black Glass-filled Nylon • Contacts: Copper Alloy, Gold Plated • Housing: Black ABS Plastic • Current rating: 5A Standard, 2A High density • Material: Brass/Gold plated pins, PBT Connector body **Applications:** • Public traffic light and automatic parking systems • Industrial automatic cleaning, sealing and packing • Security systems • Industrial computer systems • Robotics • Military applications

RJ45 Type: **Specifications:** • Connector: Black ABS Plastic • Contacts: Gold plated • Cable: Cat5e, 24AWG, 4Pair, UTP **Applications:** Commonly used in Ethernet, it is designed to be durable and robust, and is well suited for Automatic Monitoring Systems (CCTV), industrial communication systems, military communications and control systems.

USB Type: **Specifications:** Connectors: Black ABS plastic • Contacts: Gold plated • Cable: USB2.0, 28AWG, OD 5.0mm (A and B Types) **Applications:** • PC and Peripheral interfaces • Robotics • Industrial computer systems

Circular: **Specifications:** Connector: Black Nylon • Contacts: Gold plated • Current Rating: 5A (3 and 5pos.); 12A (4 and 7pos.)

Power Circular: **Specifications:** • Connectors: Black Glass-filled Nylon • Contacts: Gold plated, solder cup **Applications:** Durable construction of ASSMANN power connectors make them suitable for high power amperage applications such as generators, communication systems and military applications.

Fig. 1

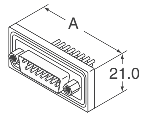

(Vertical PCB Shown)

Fig. 2

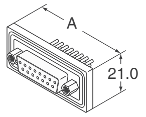

(Vertical PCB Shown)

Fig. 3

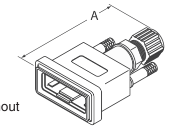

(Shown without connector)

Fig. 4

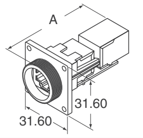

(AE10165-ND Shown)

Fig. 5

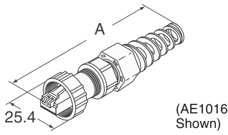

(AE10168-ND Shown)

Fig. 6

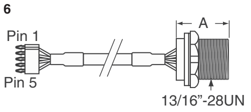

(USB Type-B Shown)

Fig. 7

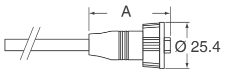

(USB Type-B Shown)

Fig. 8

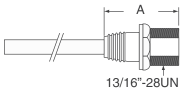

(USB Type-B Shown)

Fig. 9

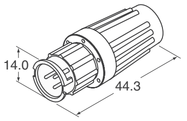

Fig. 10

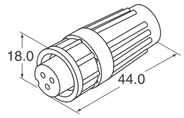

Fig. 11

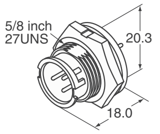

Fig. 12

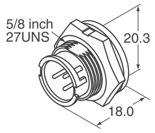

Fig. 13

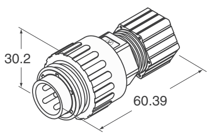

Fig. 14

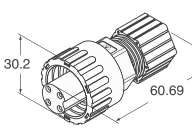

Fig. 15

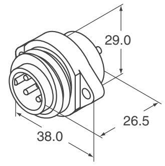

Fig. 16

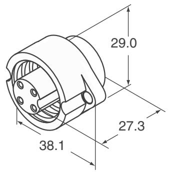

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
	D-Sub Connectors, Male — Standard Density						
1	9 Position, PCB, Vertical	39.4	AE10098-ND	16.37	14.39	12.90	A-DS09PP-WP-R
	15 Position, PCB, Vertical	47.8	AE10104-ND	19.87	17.46	15.66	A-DS15PP-WP-R
	25 Position, PCB, Vertical	64.5	AE10110-ND	23.79	20.91	18.75	A-DS25PP-WP-R
	9 Position, PCB, Right Angle	39.4	AE10100-ND	22.74	19.99	17.92	A-DS09AA-WP-R
	15 Position, PCB, Right Angle	47.8	AE10106-ND	26.99	23.73	21.27	A-DS15AA-WP-R
	25 Position, PCB, Right Angle	64.5	AE10112-ND	29.01	26.38	23.74	A-DS25AA-WP-R
	9 Position, Solder Cup	39.4	AE10096-ND	16.37	14.39	12.90	A-DS09LL-WP-R
	15 Position, Solder Cup	47.8	AE10102-ND	19.87	17.46	15.66	A-DS15LL-WP-R
	25 Position, Solder Cup	64.5	AE10108-ND	23.79	20.91	18.75	A-DS25LL-WP-R
3	9 Pos., Solder Cup, with Hood	66.7	AE10142-ND	16.37	14.39	12.90	A-DS09-HOOD-WP-R
	15 Pos., Solder Cup, with Hood	82.5	AE10144-ND	21.32	18.74	16.80	A-DS15-HOOD-WP-R
	25 Pos., Solder Cup, with Hood	92.0	AE10146-ND	27.69	24.34	21.82	A-DS25-HOOD-WP-R
	D-Sub Connectors, Female — Standard Density						
2	9 Position, PCB, Vertical	39.4	AE10097-ND	16.37	14.39	12.90	A-DF09PP-WP-R
	15 Position, PCB, Vertical	47.8	AE10103-ND	19.87	17.46	15.66	A-DF15PP-WP-R
	25 Position, PCB, Vertical	64.5	AE10109-ND	23.79	20.91	18.75	A-DF25PP-WP-R
	9 Position, PCB, Right Angle	39.4	AE10099-ND	22.74	19.99	17.92	A-DF09AA-WP-R
	15 Position, PCB, Right Angle	47.8	AE10105-ND	26.99	23.73	21.27	A-DF15AA-WP-R
	25 Position, PCB, Right Angle	64.5	AE10111-ND	29.01	26.38	23.74	A-DF25AA-WP-R
	9 Position, Solder Cup	39.4	AE10095-ND	16.37	14.39	12.90	A-DF09LL-WP-R
	15 Position, Solder Cup	47.8	AE10101-ND	19.87	17.46	15.66	A-DF15LL-WP-R
	25 Position, Solder Cup	64.5	AE10107-ND	23.79	20.91	18.75	A-DF25LL-WP-R
3	9 Pos., Solder Cup, with Hood	66.7	AE10143-ND	16.37	14.39	12.90	A-DF09-HOOD-WP-R
	15 Pos., Solder Cup, with Hood	82.5	AE10145-ND	21.32	18.74	16.80	A-DF15-HOOD-WP-R
	25 Pos., Solder Cup, with Hood	92.0	AE10147-ND	27.69	24.34	21.82	A-DF25-HOOD-WP-R
	D-Sub Connectors, Male — High Density						
1	15 Position, PCB, Vertical	39.4	AE10118-ND	19.87	17.46	15.66	A-HDS15PP-WP
	26 Position, PCB, Vertical	47.8	AE10130-ND	24.12	21.20	19.01	A-HDS26PP-WP
	44 Position, PCB, Vertical	64.5	AE10141-ND	25.47	23.15	20.84	A-HDS44PP-WP
	15 Position, PCB, Right Angle	39.4	AE10116-ND	24.86	22.60	20.34	A-HDS15AA-WP
	26 Position, PCB, Right Angle	47.8	AE10128-ND	29.59	26.90	24.21	A-HDS26AA-WP
	44 Position, PCB, Right Angle	64.5	AE10139-ND	44.64	41.20	38.32	A-HDS44AA-WP
	15 Position, Solder Cup	39.4	AE10117-ND	19.87	17.46	15.66	A-HDS15LL-WP
	26 Position, Solder Cup	47.8	AE10129-ND	24.12	21.20	19.01	A-HDS26LL-WP
	44 Position, Solder Cup	64.5	AE10140-ND	25.47	23.15	20.84	A-HDS44LL-WP
3	15 Pos., Solder Cup, with Hood	66.7	AE10119-ND	16.70	14.68	13.16	A-HDS15-HOOD-WP-R
	26 Pos., Solder Cup, with Hood	82.5	AE10121-ND	22.01	19.35	17.35	A-HDS26-HOOD-WP-R
	44 Pos., Solder Cup, with Hood	92.0	AE10123-ND	27.23	24.75	22.28	A-HDS44-HOOD-WP-R
	D-Sub Connectors, Female — High Density						
2	15 Position, PCB, Vertical	39.4	AE10115-ND	19.87	17.46	15.66	A-HDF15PP-WP
	26 Position, PCB, Vertical	47.8	AE10127-ND	24.12	21.20	19.01	A-HDF26PP-WP
	44 Position, PCB, Vertical	64.5	AE10138-ND	25.47	23.15	20.84	A-HDF44PP-WP
	15 Position, PCB, Right Angle	39.4	AE10113-ND	24.86	22.60	20.34	A-HDF15AA-WP
	26 Position, PCB, Right Angle	47.8	AE10125-ND	29.59	26.90	24.21	A-HDF26AA-WP
	44 Position, PCB, Right Angle	64.5	AE10136-ND	44.64	41.20	38.32	A-HDF44AA-WP
	15 Position, Solder Cup	39.4	AE10114-ND	19.87	17.46	15.66	A-HDF15LL-WP
	26 Position, Solder Cup	47.8	AE10126-ND	24.12	21.20	19.01	A-HDF26LL-WP
	44 Position, Solder Cup	64.5	AE10137-ND	25.47	23.15	20.84	A-HDF44LL-WP
3	15 Pos., Solder Cup, with Hood	66.7	AE10120-ND	16.70	14.68	13.16	A-HDF15-HOOD-WP-R
	26 Pos., Solder Cup, with Hood	82.5	AE10122-ND	22.01	19.35	17.35	A-HDF26-HOOD-WP-R
	44 Pos., Solder Cup, with Hood	92.0	AE10124-ND	27.23	24.75	22.28	A-HDF44-HOOD-WP-R
	D-Sub Hoods — Standard Density / High Density						
3	9 Positions / 15 Positions	66.7	AE10154-ND	14.59	12.82	11.50	A-HOOD-09/15-R
	15 Positions / 26 Positions	82.5	AE10155-ND	19.17	16.85	15.11	A-HOOD-15/26-R
	25 Positions / 44 Positions	92.0	AE10156-ND	24.85	21.84	19.58	A-HOOD-25/44-R
	RJ-45 Type Connectors						
4	Rcpt., Panel Mount, Coupler, Cat5	53.3	AE10165-ND	29.59	26.90	24.21	A-RJ45GFS-R
	Rcpt., Panel Mount, PCB, Cat5	30.2	AE10166-ND	27.69	24.34	21.82	A-RJ45-DFR-R
	Rcpt., Panel Mount, IDC, Cat5	49.5	AE10167-ND	28.85	26.62	24.76	A-RJ45KS-R
—	Rcpt., Bulkhead, IDC, Cat5e	—	AE10170-ND	18.84	16.56	14.85	A-RJ45KU-R
5	RJ-45 Type, Female	88.5	AE10168-ND	22.87	20.10	18.02	A-RJ45M-LR-R
	RJ-45 Type, Female	56.5	AE10169-ND	21.32	18.74	16.80	A-RJ45M-SR-R
	USB and RJ-45 Type Cable Assemblies						
6	USB Type-A, Female, 50mm	22.0	AE10157-ND	26.99	23.73	21.27	A-USB-APFS-R
	USB Type-B, Female, 50mm	22.0	AE10158-ND	26.99	23.73	21.27	A-USB-BPFS-R
7	USB Type-A, Male, 1 meter	42.6	AE10159-ND	23.10	20.30	18.20	A-KAB-USBA-MS-1M-R
	USB Type-B, Male, 1 meter	44.5	AE10160-ND	23.10	20.30	18.20	A-KAB-USBB-MS-1M-R
	RJ-45 Type, Male, 1 meter	64.0	AE10163-ND	26.63	23.41	20.99	A-KAB-RJ45-4S-1M-R
	RJ-45 Type, Male, 1 meter	42.7	AE10164-ND	13.50	11.87	10.64	A-KAB-RJ45-4U-1M-R
8	USB Type-A, Female, 1 meter	45.0	AE10161-ND	21.32	18.74	16.80	A-KAB-USBA-FS-1M-R
	USB Type-B, Female, 1 meter	45.0	AE10162-ND	21.32	18.74	16.80	A-KAB-USBB-FS-1M-R
	Circular Connectors (IP66)						
9	3 Position Plug	—	AE10266-ND	27.29	23.99	21.51	A-CR-03BMMA-L180-WP-R
	4 Position Plug	—	AE10270-ND	28.81	25.32	22.70	A-CR-04BMMA-L180-WP-R
	5 Position Plug	—	AE10274-ND	30.36	26.68	23.92	A-CR-05BMMA-L180-WP-R
10	3 Pos. Receptacle, Free Hanging	—	AE10265-ND	29.80	26.19	23.48	A-CR-03BFFA-L180-WP-R
	4 Pos. Receptacle, Free Hanging	—	AE10269-ND	31.91	28.05	25.15	A-CR-04BFFA-L180-WP-R
	5 Pos. Receptacle, Free Hanging	—	AE10273-ND	33.92	29.82	26.73	A-CR-05BFFA-L180-WP-R
11	3 Pos. Plug, Panel Mount	—	AE10267-ND	14.78	13.00	11.65	A-CR-03PMMP-LC-WP-R
	4 Pos. Plug, Panel Mount	—	AE10271-ND	15.31	13.46	12.07	A-CR-04PMMP-LC-WP-R
	5 Pos. Plug, Panel Mount	—	AE10275-ND	16.27	14.30	12.82	A-CR-05PMMP-LC-WP-R
12	3 Position Plug, Panel Mount Solder Cup	—	AE10268-ND	14.78	13.00	11.65	A-CR-03PMMS-LC-WP-R
	4 Position Plug, Panel Mount Solder Cup	—	AE10272-ND	14.69	12.91	11.57	A-CR-04PMMS-LC-WP-R
	5 Position Plug, Panel Mount Solder Cup	—	AE10276-ND	15.68	13.78	12.35	A-CR-05PMMS-LC-WP-R
	Power Circular Connectors (IP66)						
13	4 Position Power Plug	—	AE10278-ND	24.42	21.46	19.24	A-P04BMMA-S180-WP-R
	7 Position Power Plug	—	AE10282-ND	26.07	22.91	20.54	A-P07BMMA-S180-WP-R
14	4 Position Power Receptacle	—	AE10277-ND	25.77	23.43	21.09	A-P04BFFA-S180-WP-R
	7 Position Power Receptacle	—	AE10281-ND	26.46	24.05	21.65	A-P07BFFA-S180-WP-R
15	4 Pos. Power Plug, Panel Mount	—	AE10280-ND	17.92	15.75	14.12	A-P04PMMS-SC-WP-R
	7 Pos. Power Plug, Panel Mount	—	AE10284-ND	20.39	17.93	16.07	A-P07PMMS-SC-WP-R
16	4 Position Power Receptacle, Panel Mount	—	AE10279-ND	24.52	21.55	19.32	A-P04PFFS-SC-WP-R
	7 Position Power Receptacle, Panel Mount	—	AE10283-ND	23.16	21.05	18.95	A-P07PFFS-SC-WP-R

Amphenol® Pcd Ethernet and RJ11 Connection System for Harsh Environments

Features: • Multiple coupling types • Sealed against fluids and dusts (IP67) • Shock, vibration and traction resistant • No cabling operation in field and no tools required • With the patented RJStop® system you can use a standard RJ45/RJ11 cordset • Operating Temperature: -40°C ~ 85°C • Mating cycles: 500 minimum

Fig. 1

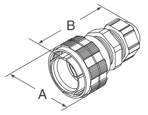

Part Number RJFTV6N Shown

Fig. 2

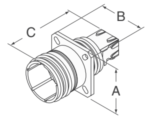

Part Number RJFTV21N Shown

Fig. 3

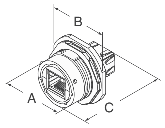

Part Number RJF71B Shown

Fig. 4

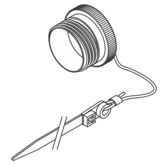

Fig. 5

Fig. 6

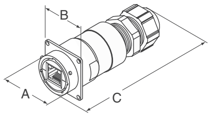

Part Number RJF2PE1B Shown

Fig. 7

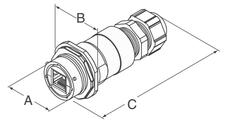

Part Number RJF7PE1B Shown

Fig. 8

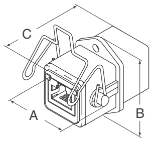

Part Number RJFEZ21 Shown

Fig. 9

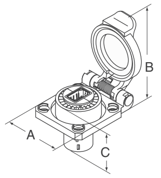

Part Number RJF21BSCC Shown

Fig.	Coupling Type	Dimensions - Inch (mm)			Description	Digi-Key Part No.	Price Each			Amphenol Part No.
		A	B	C			1	25	100	
					RJ11 — RoHS Compliant					
					Plugs					
1	Bayonet	1.124 (28.55)	2.089 (53.06)	—	Housing For Cordset with Plastic Gland, Black	APC1120-ND	53.02	42.72	39.77	RJ11F6B
					Housing For Cordset with Plastic Gland, Nickel	APC1121-ND	55.14	44.43	41.36	RJ11F6N
					Receptacles					
2	Bayonet	.874 (22.2)	1.126 (28.6)	1.563 (39.7)	Square Flange Receptacle to Receptacle, Black	APC1116-ND	55.51	44.72	41.64	RJ11F21B
					Square Flange Receptacle to Receptacle, Nickel	APC1117-ND	57.73	46.51	42.50	RJ11F21N
					Square Flange Receptacle to Solder, Black	APC1118-ND	52.91	42.62	39.68	RJ11F22B
					Square Flange Receptacle to Solder, Nickel	APC1119-ND	55.02	44.33	41.27	RJ11F22N
3	Bayonet	.874 (22.2)	1.374 (34.9)	1.563 (39.7)	Jam Nut Receptacle to Receptacle, Black	APC1122-ND	74.49	59.59	56.40	RJ11F71B
					Jam Nut Receptacle to Receptacle, Nickel	APC1123-ND	77.46	61.98	58.66	RJ11F71N
					Jam Nut Receptacle to Solder, Black	APC1124-ND	71.39	57.12	54.06	RJ11F72B
					Jam Nut Receptacle to Solder, Nickel	APC1125-ND	74.25	59.40	56.22	RJ11F72N
					Accessories					
4	Bayonet	—	—	—	Cap for Plug, Black	APC1128-ND	42.11	32.14	30.48	RJ11FC6B
					Cap for Plug, Nickel	APC1129-ND	42.65	33.43	31.12	RJ11FC6N
5	Bayonet	—	—	—	Cap for Square Flange Receptacle, Black	APC1126-ND	41.50	31.68	30.04	RJ11FC2B
					Cap for Square Flange Receptacle, Nickel	APC1127-ND	43.16	32.95	31.24	RJ11FC2N
					Cap for Jam Nut Receptacle, Black	APC1130-ND	50.02	40.30	37.52	RJ11FC7B
					Cap for Jam Nut Receptacle, Nickel	APC1131-ND	52.02	41.91	39.02	RJ11FC7N
—	Bayonet	—	—	—	Panel Gasket for RJ11 Bayonet, Square Flange Receptacles	APC1115-ND	5.28	3.12	2.77	JE14
					Tools					
—	Bayonet	—	—	—	Removal for RJ11 Receptacle and Plug Inserts	APC1132-ND	38.57	29.44	27.92	RJ11FODE
					RJ45 (Ethernet)					
					Plugs — RoHS Compliant					
1	Bayonet	1.374 (34.9)	2.275 (57.8)	—	Housing for Cordset with Plastic Gland, Black	APC1041-ND	30.13	22.60	21.10	RJF6B
					Housing for Cordset with Plastic Gland, Nickel	APC1044-ND	31.30	23.48	21.91	RJF6N
					Housing for Cordset with Metal Gland, Black	APC1042-ND	37.88	29.14	27.20	RJF6MB
					Housing for Cordset with Metal Gland, Olive Drab Cadmium	APC1291-ND ***NEW!***	35.71	28.77	26.79	RJF6MG
					Housing for Cordset with Metal Gland, Nickel	APC1043-ND	37.97	29.21	27.27	RJF6MN
	Reverse Bayonet	1.26 (32)	2.438 (61.94)	—	Housing for Cordset with Plastic Gland, Black	APC1072-ND	12.38	9.01	8.17	RJFRB6
	Thread	1.5 (38)	2.2 (56)	—	Housing for Cordset with Metal Gland, Nickel	APC1083-ND	47.67	37.37	34.79	RJFTV6MN
					Housing for Cordset with Plastic Gland, Nickel	APC1084-ND	42.82	32.68	30.99	RJFTV6N
	Push Pull	1.279 (32.5)	2.519 (64)	—	Housing for Cordset with Plastic Gland, Black	APC1009-ND	14.46	10.52	9.54	RJF5446
	Quick Lever	1.05 (26.7)	2.659 (67.5)	—	Housing for Cordset with Plastic Gland, Black (Square)	APC1069-ND	11.00	7.80	7.18	RJFEZ6
					Receptacles					
2	Bayonet	1.125 (28.58)	1.311 (33.3)	1.539 (39.1)	Square Flange Receptacle to Receptacle, Black	APC1025-ND◆	30.76	23.08	21.54	RJF21B
					Square Flange Receptacle to Receptacle, Nickel	APC1027-ND◆	32.68	25.14	23.47	RJF21N
					Square Flange Receptacle to Solder, Black	APC1029-ND◆	24.94	19.08	17.46	RJF22B00
					Square Flange Receptacle to Solder, Nickel	APC1032-ND◆	29.28	21.96	20.50	RJF22N00
					Square Flange Receptacle to 0.3 Meter Cord for 10/100 Base, TX Black	APC1030-ND◆	42.92	32.76	31.07	RJF22B03100BTX
					Square Flange Receptacle to 1.0 Meter Cord for 10/100 Base, TX Black	APC1031-ND◆	44.20	33.74	31.99	RJF22B10100BTX
					Square Flange Receptacle to 0.3 Meter Cord for 10/100 Base, TX Nickel	APC1033-ND◆	43.55	33.24	31.52	RJF22N03100BTX
					Square Flange Receptacle to 0.5 Meter Cord for 10/100 Base, TX Nickel	APC1034-ND◆	42.61	32.52	30.84	RJF22N05100BTX
	Push Pull	.878 (22.3)	1.220 (31)	1.653 (42)	Square Flange Receptacle to Receptacle, Black	APC1004-ND◆	18.58	13.72	12.61	RJF54421
				1.653 (42)	Square Flange Receptacle to Receptacle, Metallized, Black	APC1008-ND◆	21.10	15.58	14.32	RJF5442M1
				1.653 (42)	Square Flange Receptacle to Solder, Black	APC1005-ND◆	19.53	14.42	13.26	RJF5442200
				13.40 (342)	Square Flange Receptacle to 0.3 Meter Cord for 10/100 Base, TX Black	APC1006-ND◆	35.16	27.05	25.25	RJF5442203100BTX
				41.02 (1,042)	Square Flange Receptacle to 1.0 Meter Cord for 10/100 Base, TX Black	APC1007-ND◆	38.50	29.62	27.65	RJF5442210100BTX
	Thread	1.242 (31.55)	1.438 (36.53)	1.697 (43.1)	Square Flange Receptacle to Receptacle, Nickel	APC1076-ND◆	37.38	30.12	28.04	RJFTV21N
				1.697 (43.1)	Square Flange Receptacle to Solder, Nickel	APC1077-ND◆	34.99	26.92	25.13	RJFTV22N00
				13.50 (343)	Square Flange Receptacle to 0.3 Meter Cord for 10/100 Base, TX Nickel	APC1078-ND◆	72.30	58.25	53.22	RJFTV22N03100BTX
				41.06 (1,043)	Square Flange Receptacle to 1.0 Meter Cord for 10/100 Base, TX Nickel	APC1079-ND◆	52.44	41.10	38.27	RJFTV22N10100BTX
3	Bayonet	1.125 (28.58)	1.626 (41.3)	1.539 (39.1)	Jam Nut Receptacle to Receptacle, Black	APC1045-ND◆	43.84	33.46	31.73	RJF71B
					Jam Nut Receptacle to Receptacle, Nickel	APC1046-ND◆	48.36	36.91	35.01	RJF71N
					Jam Nut Receptacle to Solder, Black	APC1048-ND◆	40.67	31.29	29.20	RJF72B00
					Jam Nut Receptacle to Solder, Nickel	APC1051-ND◆	43.29	33.04	31.33	RJF72N00
		1.125 (28.58)	1.626 (41.3)	13.34 (339)	Jam Nut Receptacle to 0.3 Meter Cord for 10/100 Base, TX Black	APC1049-ND◆	50.70	39.75	37.00	RJF72B03100BTX
				13.34 (339)	Jam Nut Receptacle to 0.3 Meter Cord for 10/100 Base, TX Nickel	APC1052-ND◆	54.98	43.10	40.13	RJF72N03100BTX
				40.90 (1,039)	Jam Nut Receptacle to 1.0 Meter Cord for 10/100 Base, TX Black	APC1050-ND◆	51.80	40.60	37.80	RJF72B10100BTX
	Reverse Bayonet	1.079 (27.4)	1.339 (34)	1.729 (43.9)	Jam Nut Receptacle to Receptacle, Black (Front Mount)	APC1073-ND◆	16.95	12.51	11.50	RJFRB71
				1.691 (43)	Jam Nut Receptacle to Receptacle, Right Angle, Black (Front Mount)	APC1074-ND◆	18.88	13.94	12.82	RJFRB71RA
	Thread	1.242 (31.55)	1.812 (46)	1.696 (43.09)	Jam Nut Receptacle to Receptacle, Nickel	APC1085-ND◆	50.40	39.51	36.79	RJFTV71N
				1.696 (43.09)	Jam Nut Receptacle to Solder, Nickel	APC1086-ND◆	43.57	33.25	31.53	RJFTV72N00
				13.50 (343)	Jam Nut Receptacle to 0.3 Meter Cord for 10/100 Base, TX Nickel	APC1087-ND◆	61.56	49.59	46.17	RJFTV72N03100BTX
				41.06 (1,043)	Jam Nut Receptacle to 1.5 Meter Cord for 10/100 Base, TX Nickel	APC1088-ND◆	62.68	50.50	46.15	RJFTV72N15100BTX
6	Bayonet	1.125 (28.58)	1.311 (33.3)	3.23 (82)	Inline Square Flange Receptacle to Receptacle with Plastic Gland, Black	APC1035-ND◆	44.46	33.94	32.18	RJF2PE1B
					Inline Square Flange Receptacle to Receptacle with Plastic Gland, Nickel	APC1036-ND◆	50.89	39.89	37.14	RJF2PE1N
					Inline Square Flange Receptacle to Receptacle with Metal Gland, Black	APC1037-ND◆	54.32	42.58	39.65	RJF2PEM1B
					Inline Square Flange Receptacle to Receptacle with Metal Gland, Nickel	APC1039-ND◆	51.39	40.28	37.50	RJF2PEM1N
					Inline Square Flange Receptacle to Solder with Metal Gland, Black	APC1040-ND◆	43.61	33.29	31.57	RJF2PEM2B00
	Thread	1.242 (31.55)	1.438 (36.53)	3.622 (92)	Inline Square Flange Receptacle to Receptacle with Plastic Gland, Nickel	APC1080-ND◆	56.20	45.28	42.15	RJFTV2PE1N
					Inline Square Flange Rec. to Rec. with Metal Gland, Olive Drab Cadmium	APC1293-ND◆ ***NEW!***	62.75	50.55	47.07	RJFTV2PEM1G
					Inline Square Flange Receptacle to Receptacle with Metal Gland, Nickel	APC1081-ND◆	61.97	49.92	46.48	RJFTV2PEM1N
					Inline Square Flange Receptacle to Solder with Metal Gland, Nickel	APC1082-ND◆	52.50	41.16	38.32	RJFTV2PEM2N00
7	Bayonet	1.125 (28.58)	1.626 (41.3)	3.23 (82)	Inline Jam Nut Receptacle to Receptacle with Plastic Gland, Black	APC1053-ND◆	55.57	43.56	40.56	RJF7PE1B

◆ RoHS Compliant

(Continued)

Amphenol® Pcd Ethernet and RJ11 Connection System for Harsh Environments *(Cont.)*

Fig.	Coupling Type	Dimensions - Inches (mm)			Description	Digi-Key Part No.	Price Each			Amphenol Part No.
		A	B	C			1	25	100	
7	Bayonet	1.125 (28.58)	1.626 (41.3)	3.23 (82)	Inline Jam Nut Receptacle to Receptacle with Plastic Gland, Nickel	APC1054-ND◆	58.04	46.76	43.53	RJF7PE1N
					Inline Jam Nut Receptacle to Receptacle with Metal Gland, Black	APC1055-ND◆	63.11	50.84	47.33	RJF7PEM1B
					Inline Jam Nut Receptacle to Receptacle with Metal Gland, Nickel	APC1056-ND◆	63.48	51.14	47.62	RJF7PEM1N
					Inline Jam Nut Receptacle to Solder with Metal Gland, Green	APC1133-ND	61.46	48.66	45.24	RJF7PEM2G00
	Thread	1.242 (31.55)	1.812 (46)	3.622 (92)	Inline Jam Nut Receptacle to Receptacle with Plastic Gland, Nickel	APC1089-ND◆	64.75	52.16	47.66	RJFTV7PE1N
					Inline Jam Nut Rec. to Rec. with Metal Gland, Olive Drab Cadmium	APC1294-ND◆ ***NEW!***	72.22	58.18	54.17	RJFTV7PEM1G
					Inline Jam Nut Receptacle to Receptacle with Metal Gland, Nickel	APC1090-ND◆	70.51	56.81	51.91	RJFTV7PEM1N
8	Quick Lever	1.339 (34)	1.575 (40)	1.714 (43.55)	Flange Receptacle to Receptacle, Black	APC1064-ND◆	20.36	15.03	13.82	RJFEZ21
				13.53 (343.55)	Flange Receptacle to 0.3 Meter Cord for 10/100 Base, TX Black	APC1065-ND◆	29.87	22.98	21.45	RJFEZ2203100BTX
				21.40 (543.55)	Flange Receptacle to 0.5 Meter Cord for 10/100 Base, TX Black	APC1066-ND◆	30.23	23.26	21.71	RJFEZ2205100BTX
				41.08 (1,043.55)	Flange Receptacle to 1.0 Meter Cord for 10/100 Base, TX Black	APC1067-ND◆	31.22	24.02	22.42	RJFEZ2210100BTX
				60.77 (1,543.55)	Flange Receptacle to 1.5 Meter Cord for 10/100 Base, TX Black	APC1068-ND◆	32.18	24.76	23.11	RJFEZ2215100BTX
9	Bayonet	1.125 (28.58)	1.311 (33.3)	1.051 (26.7)	Square Flange Receptacle to Receptacle, Black with Self Closing Cap	APC1026-ND◆	38.68	29.76	27.78	RJF21BSCC
					Square Flange Receptacle to Receptacle, Nickel with Self Closing Cap	APC1028-ND◆	39.06	29.81	28.27	RJF21NSCC
					Accessories — RoHS Compliant					
4	Bayonet	—	—	—	IP67 Dust Cap for RJF Bayonet Plugs, Black	APC1059-ND	27.44	20.59	19.22	RJFC6B
					IP67 Dust Cap for RJF Bayonet Plugs, Nickel	APC1060-ND	28.71	21.54	20.10	RJFC6N
	Push Pull	—	—	—	IP67 Dust Cap for RJF544 Push Pull Plugs	APC1001-ND	17.22	12.53	11.35	54402BM
	Thread	—	—	—	IP67 Dust Cap for RJFTV Threaded Plugs, Nickel	APC1092-ND	35.86	27.59	25.75	RJFTVC6N
5	Bayonet	—	—	—	IP67 Dust Cap for RJF Bayonet Square Flange Receptacles, Black	APC1057-ND	25.34	19.01	17.74	RJFC2B
					IP67 Dust Cap for RJF Bayonet Square Flange Rec., Olive Drab Cadmium	APC1292-ND ***NEW!***	24.88	20.04	18.66	RJFC2G
					IP67 Dust Cap for RJF Bayonet Square Flange Receptacles, Nickel	APC1058-ND	26.73	20.06	18.72	RJFC2N
					IP67 Dust Cap for RJF Bayonet Jam Nut Receptacles, Black	APC1061-ND	31.45	24.20	22.59	RJFC7B
					IP67 Dust Cap for RJF Bayonet Jam Nut Receptacles, Nickel	APC1062-ND	32.79	25.23	23.54	RJFC7N
	Push Pull	—	—	—	IP67 Dust Cap for RJF544 Push Pull Receptacles	APC1000-ND	17.22	12.53	11.35	54402BE
					Panel Gasket for RJF544 Push Pull Square Flange Receptacles	APC1002-ND	1.96	1.12	.97	54402JE
	Thread	—	—	—	IP67 Dust Cap for RJFTV Threaded Square Flange Receptacles, Nickel	APC1091-ND	34.59	26.61	24.84	RJFTVC2N
					IP67 Dust Cap for RJFTV Threaded Jam Nut Receptacles, Nickel	APC1093-ND	38.85	29.89	27.89	RJFTVC7N
	Reverse Bayonet	—	—	—	IP67 Dust Cap for RJFRB Reverse Bayonet Jam Nut Receptacles	APC1075-ND	7.86	5.41	4.92	RJFRBC7
—	Bayonet/SCC	—	—	—	Flange Gasket for RJF Bayonet and all with Self Closing Caps	APC1023-ND	5.76	3.20	2.80	JE18
	Bayonet	—	—	—	Flange Gasket for RJFTV Bayonet Square Flange Receptacles	APC1094-ND	4.03	2.51	2.27	JE19
	Quick Lever	—	—	—	IP67 Dust Cap for RJFEZ Quick Lever Receptacles	APC1070-ND	9.04	6.22	5.66	RJFEZBE
					Panel Gasket for RJFEZ Quick Lever Square Flange Receptacles	APC1071-ND	1.30	.70	.60	RJFEZJE
					Tools — RoHS Compliant					
—	Bayonet	—	—	—	Removal Tool RJFTV Thread, RJF Bayonet Receptacle and Plug Insert	APC1063-ND	34.72	26.04	24.31	RJFODE
	Push Pull	—	—	—	Removal Tool for RJF455 Plug Inserts	APC1003-ND	9.86	6.70	6.17	54400T02

◆ ***RoHS Compliant***

USB and IEEE 1394 Connection System for Harsh Environments

Features: • Tri-Start Thread coupling • Sealed against fluids and dusts (IP67) • Shock, vibration and traction resistant • No cabling operation in field and no tools required • Can insert a standard USB 2.0 or most standard IEEE 1394 cordsets into a metallic plug • Operating Temperature: -55°C ~ 85°C • Mating cycles: 500 ~ 1,500

Fig. 1

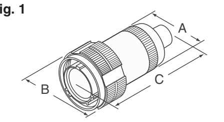

Fig. 2

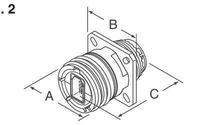

Fig. 3

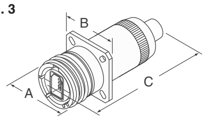

Fig. 4

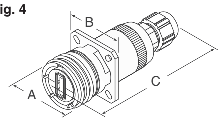

Fig. 5

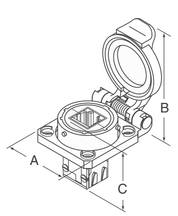

Fig. 6

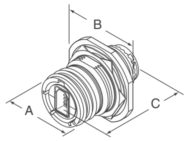

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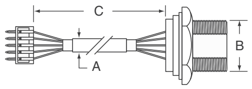

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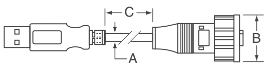

Fig.	Coupling Type	Dimensions - Inches (mm)			Description	Digi-Key Part No.	Price Each			Amphenol Part No.
		A	B	C			1	25	100	
					USB					
1	Plug	.961 (24.4)	1.249 (31.72)	2.792 (70.91)	Plug Housing for USB to A Male cord	APC1107-ND	50.53	39.61	36.87	USBFTV6N
2	Receptacle	1.006 (25.5)	1.219 (30.96)	1.237 (31.41)	Square Flange A Receptacle to Receptacle, Nickel	APC1103-ND	39.53	30.42	28.39	USBFTV21N
					Square Flange A Receptacle to Solder, Nickel	APC1104-ND	39.10	30.08	28.08	USBFTV22N
3	Receptacle	1.006 (25.5)	1.219 (30.96)	3.422 (86.9)	Inline Square Flange A Receptacle to Receptacle with Backshell, Nickel	APC1105-ND†	72.77	58.63	53.57	USBFTV2PE1N
					Inline Jam Nut A Receptacle to Receptacle with Backshell, Nickel	APC1110-ND†	76.15	60.93	57.66	USBFTV7PE1N
5	Receptacle	1.006 (25.5)	1.219 (30.96)	1.052 (26.7)	Square Flange A Receptacle to Receptacle, Black with Self Closing Cap	APC1100-NDΔ	35.78	27.53	25.70	USBF21BSCC
					Square Flange A Receptacle to Receptacle, Nickel with Self Closing Cap	APC1101-NDΔ	37.85	29.12	27.18	USBF21NSCC
6	Receptacle	1.006 (25.5)	1.515 (38.47)	1.237 (31.42)	Jam Nut A Receptacle to Receptacle, Nickel	APC1108-ND	45.60	34.81	33.01	USBFTV71N
					Jam Nut A Receptacle to Solder, Nickel	APC1109-ND	45.18	34.48	32.70	USBFTV72N
7	Cable	0.197 (5)	0.811 (20.6)	1.968 (50.0)	Jam Nut B Receptacle to 5 Pin JWT 2.5mm Connector	APC1097-ND	17.47	12.90	11.86	USBBF7
8	Cable	0.197 (5)	0.811 (20.6)	39.37 (1,000)	Cord Male A to Sealed Male B	APC1095-ND	19.51	14.93	13.66	USBBF6100
				78.74 (2,000)	Cord Male A to Sealed Male B	APC1096-ND	21.00	16.07	14.70	USBBF6200
					IEEE 1394					
1	Plug	.961 (24.4)	1.249 (31.72)	2.795 (71)	Plug Housing for IEEE 1394 Male Cord	APC1016-ND	63.92	50.60	47.05	FWFTV6N
2	Receptacle	1.006 (25.5)	1.219 (30.95)	1.332 (33.83)	Square Flange Receptacle to Receptacle, Nickel	APC1013-ND	52.52	41.17	38.33	FWFTV21N
					Square Flange Receptacle to Solder, Nickel	APC1014-ND	46.23	35.29	33.46	FWFTV22N
3	Receptacle	1.006 (25.5)	1.219 (30.95)	3.422 (86.9)	Inline Square Flange Receptacle to Receptacle with Backshell, Nickel	APC1015-ND†	97.21	78.67	73.05	FWFTV2PE1N
4	Receptacle	1.006 (25.5)	1.515 (38.5)	3.020 (77)	Inline Jam Nut Receptacle to Receptacle with Backshell, Nickel	APC1019-ND†	105.40	85.30	79.21	FWFTV7PE1N
5	Receptacle	1.417 (36)	1.890 (48)	1.052 (26.7)	Square Flange Receptacle to Receptacle, Black with Self Closing Cap	APC1010-NDΔ	47.24	37.03	34.48	FWF21BSCC
					Square Flange Receptacle to Receptacle, Nickel with Self Closing Cap	APC1011-NDΔ	47.89	37.54	34.95	FWF21NSCC
6	Receptacle	1.006 (25.5)	1.515 (38.5)	1.332 (33.8)	Jam Nut Receptacle to Receptacle, Nickel	APC1017-ND	56.17	44.47	42.13	FWFTV71N
					Jam Nut Receptacle to Solder, Nickel	APC1018-ND	59.92	47.44	44.95	FWFTV72N
					Accessories					
—	—	—	—	—	IP67 Dust Cap for USBFTV Square Flange Receptacles	APC1112-ND	27.52	20.64	19.27	USBFTVC2N
					IP67 Dust cap for USBFTV Plugs	APC1113-ND	28.59	21.45	20.02	USBFTVC6N
					IP67 Dust Cap for USBFTV Jam Nut Receptacles	APC1114-ND	33.95	26.12	24.38	USBFTVC7N
					Receptacle Cap for USBBF7 with Metal Chains	APC1098-ND	6.34	4.39	3.89	USBBFC7
					IP67 Dust Cap for FWFTV Square Flange Receptacle	APC1020-ND	26.19	19.65	18.34	FWFTVC2N
					IP67 Dust Cap for FWFTV Plug	APC1021-ND	27.21	20.42	19.06	FWFTVC6N
					IP67 Dust Cap for FWFTV Jam Nut Receptacle	APC1022-ND	32.31	24.86	23.20	FWFTVC7N
					Gasket for Square Flange Receptacles Both FWFTV and USBFTV	APC1024-ND	4.96	3.04	2.64	JE15
					Tools					
—	—	—	—	—	Removal Tool for FWFTV Receptacle Inserts	APC1012-ND	35.12	27.02	25.22	FWFODE
					Removal Tool for USBFTV Receptacle Inserts	APC1102-ND	30.14	22.61	21.11	USBFODE

† Not IP67 Sealed   Δ Use JE18 Gasket

HIROSE ELECTRIC CO.,LTD.

“TM” Modular Connectors

Fig. 1
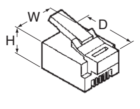

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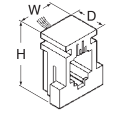

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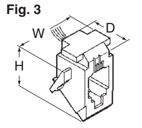

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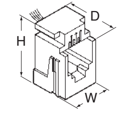

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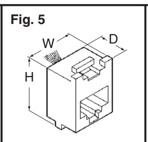

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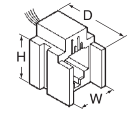

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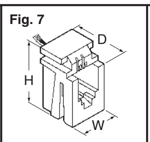

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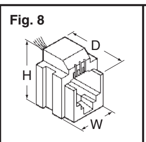

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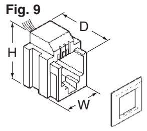

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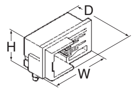

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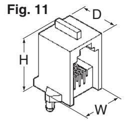

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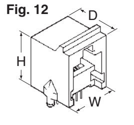

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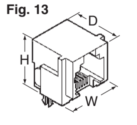

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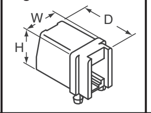

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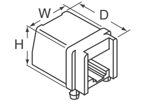

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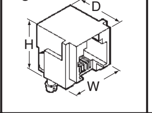

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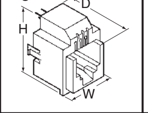

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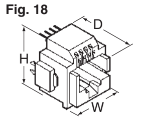

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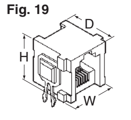

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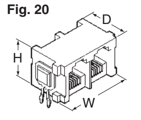

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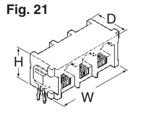

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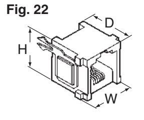

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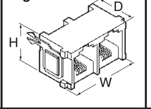

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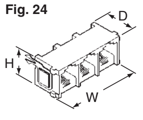

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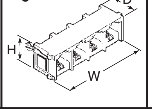

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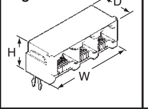

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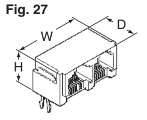

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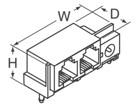

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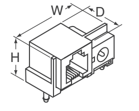

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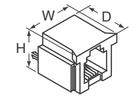

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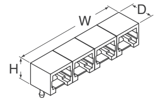

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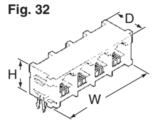

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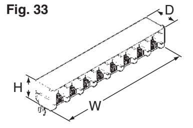

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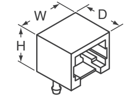

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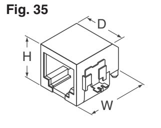

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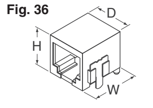

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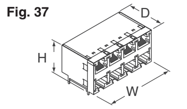

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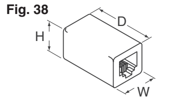

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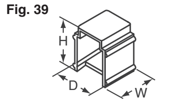

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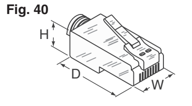

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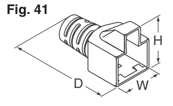

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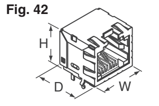

Fig.	Position/ Contacts	Description	Dim. (mm)			Digi-Key Part No.	Price Each			Hirose Part No.
			W	H	D		1	10	100	
Plugs (for IDC Termination with Flat Line Cord) — RoHS Compliant										
1	4-4	Plug	7.7	6.6	13.4	H9091-ND	1.41	1.15	.84	TM3P-44P
	6-4		9.7	6.6	13.4	H9092-ND	1.48	1.21	.88	TM3P-64P
	6-6		9.7	6.6	13.4	H9093-ND	1.71	1.40	1.02	TM3P-66P
	8-8		11.7	6.6	22.5	H9094-ND	2.15	1.79	1.32	TM8P-88P
Receptacles — with 6” (152.4mm) Wire Leads; Color: Gray										
3	4-4	Receptacle	15.3	20.5	10.2	H9018-ND	2.63	2.19	1.62	TM1R-616W44-4S-150M
Receptacles — with 6” (152.4mm) Wire Leads; Color: Gray — RoHS Compliant										
2	4-4	Receptacle	17.5	20.5	10.2	H11388-ND	4.32	3.58	2.69	TM1R-616B44-35S-150M
6	4-4	Receptacle	12.4	17.4	14.3	H11389-ND	4.32	3.58	2.69	TM1R-616M44-35S-150AM
7	4-4	Receptacle	12.4	21.3	12.5	H11390-ND	4.38	3.63	2.72	TM1R-616P44-35S-150M
4	6-4	Receptacle	14.9	18.3	13.7	H11391-ND	4.38	3.63	2.72	TM1RV-623K64-35S-150M
	6-4		12.4	21.4	12.5	H11392-ND	4.47	3.70	2.78	TM1RV-623P64-35S-150M
	6-6		12.4	21.4	12.5	H11394-ND	8.01	6.78	5.09	TM1RV-623P66-35S-150M
8	6-6	Receptacle	14.9	18.3	13.7	H11393-ND	9.22	8.02	6.42	TM1RV-623K66-35S-150M
5	8-8	Receptacle	16.0	18.4	12.5	H11395-ND	9.13	7.94	6.36	TM1RV-647AF88-35S-150M
Receptacles — Panel Mount with 6” (152.4mm) Wire Leads (Bezel Included); Color: Brown — RoHS Compliant										
9	6-2	Receptacle	14.9	18.3	13.7	H11368-ND	4.64	3.84	2.88	TM2RG-L62-5S-150M
	6-4		14.9	18.3	13.7	H11369-ND	5.83	4.83	3.62	TM2RG-L64-5S-150M
	6-6		14.9	18.3	13.7	H11370-ND	6.81	5.77	4.33	TM2RG-L66-5S-150M
Receptacles — P.C. Board Mount; Color: Gray										
10	6-6	Receptacle	24.6	13.0	14.0	H9033-ND	3.15	2.62	1.94	TM5RF-66
12	8-8	Receptacle	18.1	21.2	17.5	H9044-ND	4.38	3.63	2.72	TM5RC-88
13	6-4	Receptacle	14.8	14.0	14.0	H9082-ND	2.47	2.06	1.52	TM5RJ1-64
14	6-2	Receptacle	13.0	14.5	18.0	H9122-ND	2.08	1.73	1.28	TM5RE1-62(50)
	4-4		13.0	14.5	18.0	H9123-ND	2.70	2.25	1.66	TM5RE1-44
	6-4		15.0	14.5	18.0	H9124-ND	2.47	2.06	1.52	TM5RE1-64
Receptacles — P.C. Board Mount; Color: Gray — RoHS Compliant										
10	4-4	Receptacle	20.0	11.0	10.5	H11253-ND	3.22	2.68	1.98	TM5RF-44(50)
	6-4		24.6	13.0	14.0	H11292-ND	3.09	2.57	1.90	TM5RF-64(50)
11	4-4	Receptacle	18.0	18.6	14.3	H11366-ND	2.60	2.16	1.60	TM5RC-44(50)
	6-4		18.0	21.1	14.3	H11251-ND	2.80	2.33	1.72	TM5RC-64(50)
	6-6		18.0	21.1	14.3	H11250-ND	2.93	2.43	1.82	TM5RC-66(50)
12	8-8	Receptacle	18.1	21.2	17.5	H11252-ND	4.55	3.77	2.83	TM5RC-88(50)
13	4-4	Receptacle	12.8	14.0	14.0	H11287-ND	3.09	2.57	1.90	TM5RJ3-44(50)
	6-4	Receptacle	14.8	14.0	14.0	H11283-ND	2.57	2.14	1.58	TM5RJ1-64(50)
	6-6	Receptacle	14.8	14.0	14.0	H11284-ND	3.02	2.52	1.86	TM5RJ1-66(50)
	8-8	Receptacle (Keyed)	19.2	14.0	16.0	H11281-ND	3.10	2.57	1.93	TM5RJ1-88(50)
16	6-4	Receptacle	14.8	14.0	14.0	H11293-ND	2.57	2.14	1.58	TM5RJ2-64(50)
	6-6	Receptacle	14.8	14.0	14.0	H11294-ND	3.19	2.65	1.96	TM5RJ2-66(50)
	8-8	Receptacle (Keyed)	19.2	14.0	16.0	H11280-ND	2.70	2.25	1.66	TM5RJ-88(50)
	8-8	Receptacle (Keyed)	18.6	14.0	14.0	H11295-ND	4.15	3.44	2.58	TM5RJ2-88(50)
14	4-4	Receptacle	13.0	14.5	18.0	H11255-ND	2.60	2.16	1.60	TM5RE1-44(20)
	6-4		15.0	14.5	18.0	H11257-ND	2.80	2.33	1.72	TM5RE1-64(20)
15	6-6	Receptacle	15.0	14.5	18.0	H11258-ND	3.12	2.60	1.92	TM5RE1-66(20)

Fig.	Position/ Contacts	Description	Dim. (mm)			Digi-Key Part No.	Price Each			Hirose Part No.
			W	H	D		1	10	100	
Receptacles — Top Entry P.C. Board Mount; Color: White — RoHS Compliant										
17	4-4	Low Profile	12.9	18.3	15.0	H11254-ND	2.96	2.46	1.82	TM3RA-44(50)
	6-4		14.9	18.3	15.0	H11259-ND	2.96	2.46	1.82	TM3RA-64(50)
	6-6		14.9	18.3	15.0	H11271-ND	2.99	2.48	1.86	TM3RA-66(50)
18	8-8	Low Profile	16.9	18.3	15.0	H11279-ND	5.83	4.83	3.62	TM3RA-88(50)
Receptacles — P.C. Board Mount with Tin Hold-Down Tabs; Color: Gray										
20	2 x 6-2	PC Mount	28.2	15.4	16.0	H9051-ND	3.77	3.12	2.34	TM2REA-1204
21	3 x 6-4	PC Mount	39.2	15.4	16.0	H9054-ND	6.70	5.55	4.16	TM2REA-1812
22	6-2	PC Top Entry	17.2	16.0	15.4	H9110-ND	2.60	2.16	1.60	TM2RE-0602
23	2 x 6-2	PC Top Entry	28.2	16.0	15.4	H9113-ND	3.77	3.12	2.34	TM2RE-1204
	2 x 6-4		28.2	16.0	15.4	H9114-ND	4.93	4.08	3.06	TM2RE-1208
24	3 x 6-2	PC Top Entry	39.2	16.0	15.4	H9116-ND	4.99	4.13	3.10	TM2RE-1806
27	—	2 x (1) 8-8, (1) 6-6	28.0	14.0	13.5	H9077-ND	6.71	5.68	4.26	TM5RQ-1414
28	2 x 6-2	With Power Plug	35.0	15.0	13.7	H9129-ND	3.05	2.52	1.89	TM5RT-1204PWJ
29	6-2	With Power Plug	24.0	15.0	13.7	H9132-ND	2.83	2.35	1.74	TM5RT1-62PWJ
30	6-4	Top Entry SMT	14.0	17.0	12.5	H9136-ND	3.06	2.54	1.88	TM15R-64(30)
Receptacles — P.C. Board Mount with Tin Hold-Down Tabs; Color: Gray — RoHS Compliant										
19	4-4	PC Mount	20.0	11.0	10.5	H11282-ND	2.83	2.35	1.74	TM5RF1-44(50)
	6-4		18.0	15.4	16.0	H11296-ND	3.48	2.88	2.16	TM2REA-0604(50)
	6-6		18.0	15.4	16.0	H11297-ND	4.06	3.36	2.52	TM2REA-0606(50)
20	2 x 6-2	PC Mount	28.2	15.4	16.0	H11278-ND	3.92	3.24	2.43	TM2REA-1204(50)
	2 x 6-4		28.2	15.4	16.0	H11275-ND	5.10	4.23	3.17	TM2REA-1208(50)
	2 x 6-6		28.2	15.4	16.0	H11263-ND	6.09	5.04	3.78	TM2REA-1212(50)
21	3 x 6-2	PC Mount	39.2	15.4	16.0	H11277-ND	5.19	4.30	3.23	TM2REA-1806(50)
	3 x 6-4		39.2	15.4	16.0	H11274-ND	6.96	5.76	4.32	TM2REA-1812(50)
	3 x 6-6		39.2	15.4	16.0	H11264-ND	8.35	7.26	5.81	TM2REA-1818(50)
32	4 x 6-2	PC Mount	50.2	15.4	16.0	H11276-ND	6.41	5.31	3.98	TM2REA-2408(50)
	4 x 6-4		50.2	15.4	16.0	H11265-ND	7.77	6.58	4.94	TM2REA-2416(50)
	4 x 6-6		50.2	15.4	16.0	H11266-ND	8.72	7.58	6.07	TM2REA-2424(50)
22	6-4	PC Top Entry	17.2	16.0	15.4	H11290-ND	3.48	2.88	2.16	TM2RE-0604(50)
	6-6		17.2	16.0	15.4	H11291-ND	4.06	3.36	2.52	TM2RE-0606(50)
23	2 x 6-4	PC Top Entry	28.2	16.0	15.4	H11269-ND	5.10	4.23	3.17	TM2RE-1208(50)
	2 x 6-6		28.2	16.0	15.4	H11270-ND	6.09	5.04	3.78	TM2RE-1212(50)
24	3 x 6-4	PC Top Entry	39.2	16.0	15.4	H11268-ND	6.96	5.76	4.32	TM2RE-1812(50)
	3 x 6-6		39.2	16.0	15.4	H11272-ND	7.80	6.60	4.95	TM2RE-1818(50)
25	4 x 6-2	PC Top Entry	50.2	16.0	15.4	H11273-ND	6.47	5.36	4.02	TM2RE-2408(50)
	4 x 6-4		50.2	16.0	15.4	H11260-ND	7.77	6.58	4.94	TM2RE-2416(50)
	4 x 6-6		50.2	16.0	15.4	H11267-ND	10.99	9.56	7.65	TM2RE-2424(50)
33	8 x 6-6	Side Entry 8 x 6-6	93.0	14.0	14.0	H11288-ND	12.26	11.35	9.51	TM5RJ1-4848(50)
26	3 x 8-8	3 x 8-8	43.3	14.0	14.7	H11311-ND	6.66	5.64	4.23	TM5RSA-2424(50)
	—	3 x (1) 8-8, (2) 6-6	30.0	14.0	13.5	H11299-ND	8.35	7.07	5.30	TM5RQ-2020(50)

(Continued)

HIROSE ELECTRIC CO.,LTD. "TM" Modular Connectors *(Cont.)*

Fig.	Position/ Contacts	Description	Dim. (mm) W	H	D	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
27	—	2 x (1) 8-8, (1) 6-6	28.0	14.0	13.5	H11298-ND	6.97	5.90	4.43	TM5RQ-1414(50)
28	2 x 6-2	With Power Plug	35.0	15.0	13.7	H11312-ND	3.31	2.74	2.06	TM5RT-1204PWJ(50)
	2 x 6-2		35.0	15.0	13.7	H11313-ND	3.51	2.91	2.18	TM5RT1-1204PWJ(50)
29	6-6	With Power Plug	24.0	15.0	13.7	H11314-ND	3.89	3.22	2.42	TM5RT1-66PWJ(50)
30	4-4	Top Entry SMT	13.0	17.0	12.5	H11301-ND	2.80	2.33	1.72	TM15R-44(50)
	6-4		14.0	17.0	12.5	H11300-ND	3.02	2.52	1.86	TM15R-64(50)
34	8-8	Receptacle	14.0	11.7	17.0	H11303-ND	3.51	2.91	2.18	TM5RL-88(50)
31	4 x 8-8	Receptacle	56.0	11.7	17.0	H11304-ND	10.24	8.90	7.12	TM5RL-3232(50)
Receptacles — Right Angle, SMT										
35	6-2	Receptacle	13.6	11.3	13.5	H10131-ND	3.36	2.79	2.09	TM18R-62
	6-4		13.6	11.3	13.5	H10132-ND	3.51	2.91	2.18	TM18R-64
Receptacles — Right Angle, SMT — RoHS Compliant										
36	8-8	Receptacle	15.6	12.3	14.5	H11310-ND	4.61	3.82	2.87	TM18R-TO-88(50)
"TM" Modular Connectors — RoHS Compliant										
31	4 x 8-8	With Light Pipes	59.2	15.3	25.9	H11307-ND	15.47	14.56	12.74	TM21R-5A-3232-LP(50)
38	8-8	Adapter Receptacle to Receptacle	18.6	17.0	37.5	H11315-ND	11.54	10.68	8.95	TM5RL-88-JJ(50)
37	8 x 8-8	With Light Pipes	59.2	28.0	32.5	H11308-ND	21.30	20.59	18.46	TM21R-5B-3232D-LP(50)
Dust Covers for Modular Connectors — RoHS Compliant										
39	6-6	Dust Cover	12.0	13.0	8.5	H9007-ND	.65	.53	.39	TM-6-DC
	8-8		15.6	13.9	6.5	H9006-ND	.95	.78	.57	TM-8-DC
Plug for CAT6 — RoHS Compliant										
40	8-8	Plug	11.7	8.9	25	H11471-ND	3.60	2.98	2.24	TM23P-88P
Boot for CAT6 Plug — RoHS Compliant										
41	8-8	Black	13.4	17.2	25.3	H11472-ND	1.18	.97	.70	TM23P-8-BT(01)
	8-8	Red	13.4	17.2	25.3	H11473-ND	1.18	.97	.70	TM23P-8-BT(02)
	8-8	Blue	13.4	17.2	25.3	H11474-ND	1.18	.97	.70	TM23P-8-BT(03)
	8-8	Yellow	13.4	17.2	25.3	H11475-ND	1.18	.97	.70	TM23P-8-BT(04)
	8-8	Green	13.4	17.2	25.3	H11476-ND	1.18	.97	.70	TM23P-8-BT(05)
	8-8	Orange	13.4	17.2	25.3	H11477-ND	1.18	.97	.70	TM23P-8-BT(06)
	8-8	Gray	13.4	17.2	25.3	H11478-ND	1.18	.97	.70	TM23P-8-BT(07)
	8-8	Light Blue	13.4	17.2	25.3	H11479-ND	1.18	.97	.70	TM23P-8-BT(08)
Receptacles — Right Angle, SMT — RoHS Compliant										
42	8-8	Black; CAT6	15	14.5	13	H11480-ND	3.74	3.10	2.33	TM23R-5A-88(50)
	8-8	EMI Shield	15	14.5	13	H11488-ND	4.23	3.51	2.63	TM24RSG-5A-88
—	Hand Crimp Tool for CAT6 Plug					H11487-ND	558.60	—	—	HT601-TM23/22P-88P

Data-Link Shielded Jack and Cable Assembly

H11289

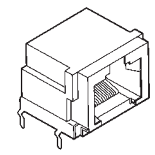

FEATURES:

Jack: • In order to protect the circuit inside the equipment, the jack is constructed to allow the shielding to engage first upon mating • The conventional TM series jack with EMI protection provided with a shield and ferrite core • The 8-conductor model conforming to RJ-45 and ISO8877 standards

APPLICATIONS:

• LAN equipment • Office equipment • Measurement equipment • HUB • Router • Computer • ISDN terminal **TM11 "EMI"** protection connector is designed to fulfill the requirement of noise and "ESD" protection. The design is in conformance with the F.C.C. regulation as specified in "476 C.F.R., Part 68, subpart F."

Shielded Jack — PCB Mount

Positions-Contacts	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
8-8	H11289-ND◆	5.51	4.56	3.42	TM11R-5C-88(50)

◆ *RoHS Compliant*

EDAC INC RJ45 Modular Jacks with LEDs

RoHS COMPLIANT

Fig. 1

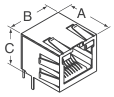

Fig. 2

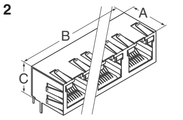

SPECIFICATIONS:

• Insulator Housing: Black Plastic PBT/Nylon, UL 94V-0 • Contact Material: Phosphor Bronze • Contact Plating: Gold Flash or Gold Plate over Nickel • Contact Resistance: 20mΩ max. • Insulation Resistance: 500MΩ min. • Current Rating: 1.5A max. • Voltage Rating: 120VAC max. • Shield Housing: Tin plated Copper Alloy • LED Voltage: 2.1V typical @ 20mA • Reverse Voltage @<100mA: 5.0V • DC Forward Current: 30mA

Fig.	Circuits-Contacts	LED Color Left / Right	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	EDAC Part No.
30µ" Gold										
1	8-8	—	15.75	16.51	13.46	151-1060-ND	3.01	2.67	2.14	A20-108-660-010
		Yellow/Green	15.75	16.51	13.46	151-1061-ND	3.26	2.89	2.31	A20-108-661-310
		Red/Green	15.75	16.51	13.46	151-1062-ND	3.35	2.97	2.38	A20-108-662-310
		Green/Green	15.75	16.51	13.46	151-1063-ND	3.91	3.47	2.78	A20-108-663-310
		Red/Green-Red/Green	15.75	16.51	13.46	151-1064-ND	3.97	3.52	2.82	A20-108-665-510
2	2 x 8-8	—	15.75	32.26	13.46	151-1065-ND	4.84	4.29	3.44	A20-216-660-010
		Yellow/Green	15.75	32.26	13.46	151-1066-ND	5.74	5.09	4.07	A20-216-661-310
		Green/Green	15.75	32.26	13.46	151-1067-ND	5.27	4.68	3.74	A20-216-663-310
2	4 x 8-8	Green/Green	15.75	63.75	13.46	151-1068-ND	9.30	8.25	6.60	A20-432-663-310
		Yellow/Green	15.75	63.75	13.46	151-1069-ND	9.30	8.25	6.60	A20-432-661-310
Gold Flash										
1	8-8	—	15.75	16.51	13.46	151-1105-ND	2.23	1.98	1.59	A20-108-260-010
		Yellow/Green	15.75	16.51	13.46	151-1106-ND	2.70	2.40	1.92	A20-108-261-310
		Red/Green	15.75	16.51	13.46	151-1107-ND	2.64	2.34	1.87	A20-108-262-310
		Green/Green	15.75	16.51	13.46	151-1108-ND	2.64	2.34	1.87	A20-108-263-310
2	2 x 8-8	—	15.75	32.26	13.46	151-1111-ND	4.43	3.94	3.15	A20-216-260-010
		Yellow/Green	15.75	32.26	13.46	151-1112-ND	4.90	4.35	3.48	A20-216-261-310
		Green/Green	15.75	32.26	13.46	151-1113-ND	4.90	4.35	3.48	A20-216-263-310
2	4 x 8-8	Green/Green	15.75	63.75	13.46	151-1109-ND	9.33	8.28	6.63	A20-432-263-310
		Yellow/Green	15.75	63.75	13.46	151-1110-ND	9.30	8.25	6.60	A20-432-261-310

RJ45 Modular Jacks

RoHS COMPLIANT

Fig. 1 – Vertical

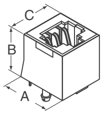

Fig. 2 – Right Angle

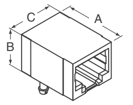

SPECIFICATIONS:

• Operating Temperature: -40°C ~ 80°C • FCC Compliance: Part 68 SubPart F • Insulator Housing: Black Plastic PBT/Nylon, UL 94V-0 • Contact Material: Phosphor Bronze • Contact Plating: Gold Flash or Gold Plated over Nickel • Contact Resistance: 30mΩ max. • Insulation Resistance: 500MΩ min. • Current Rating: 1.5A max. • Voltage Rating: 1.25V • Withstanding Voltage: 500VAC (Gold Flash: 1000VAC) • Shield Housing: Tin plated Copper Alloy

Fig.	Circuits-Contacts	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	EDAC Part No.
30µ" Gold									
1	8-8	15.90	16.38	15.36	151-1070-ND	1.21	1.08	.86	A00-108-620-450
		16.70	16.20	16.00	151-1071-ND	2.23	1.98	1.59	A00-108-622-450
2	8-8	20.57	13.30	15.24	151-1072-ND	2.36	2.09	1.68	A00-108-660-450
		21.20	13.60	15.88	151-1073-ND	2.39	2.12	1.70	A00-108-662-450
2	8-8	20.57	13.60	30.48	151-1074-ND	3.41	3.03	2.42	A00-216-660-450
		21.27	13.80	31.12	151-1075-ND	4.19	3.72	2.97	A00-216-662-450
		28.50	25.14	17.28	151-1076-ND	4.84	4.29	3.44	A00-216-672-450
2	8-8	20.65	12.83	58.55	151-1077-ND	5.52	4.90	3.92	A00-432-660-450
		21.30*	13.60	59.10*	151-1078-ND	9.98	8.86	7.09	A00-432-662-450
Gold Flash									
1	8-8	15.90	16.38	15.36	151-1099-ND	.71	.64	.51	A00-108-220-450
		16.70	16.20	16.00	151-1100-ND	1.64	1.46	1.17	A00-108-222-450
2	8-8	20.57	13.30	15.24	151-1118-ND	.84	.75	.60	A00-108-260-450
		21.20	13.60	15.88	151-1119-ND	1.24	1.10	.88	A00-108-262-450
2	8-8	20.57	13.60	30.48	151-1101-ND	1.33	1.19	.95	A00-216-260-450
		21.27	13.80	31.12	151-1102-ND	2.17	1.93	1.54	A00-216-262-450
		28.50	25.14	17.28	151-1103-ND	4.43	3.94	3.15	A00-216-272-450
2	8-8	20.65	12.83	58.55	151-1104-ND	2.42	2.15	1.72	A00-432-260-450
		21.30*	13.60	59.10*	151-1120-ND	3.69	3.28	2.62	A00-432-262-450

* Dimension is ±0.25 mm

molex® HyperJack 1000 Power over Ethernet (PoE) Modules

RoHS COMPLIANT

Circuits-Contacts	Description	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
8-8	PoE Module 2x4 Port	59.39	63.53	25.9	WM5458-ND	163.80	140.69	125.61	85586-1003
	PoE Module 2x6 Port	87.33	63.53	25.9	WM5459-ND	268.38	230.52	205.82	85586-1005
	Ethernet 2x6 Port	87.33	40.15	25.46	WM5460-ND	99.06	85.09	75.97	85780-1005

The HyperJack 1000 PoE Module enables all power over Ethernet management functions for Power Sourcing Equipment (PSE) acc. IEEE802.3af with Gigabit Ethernet performance.

SPECIFICATIONS: Shield: • Material: Brass, Plating: Nickel **Housing:** • Material: Black Thermoplastic UL 94V-0 **Terminal:** • Phosphor Bronze, Plating: Postplate or Spotplate 0.00127/0.00005 min. • Gold over 0.00127/0.00005 min. • Nickel in contact area, 0.00190/0.000075 min. 100% • Tin in tail area, both over 0.00127/0.000050 min. nickel over all

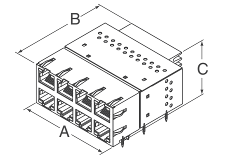

molex® Modular Jacks

Fig. 1

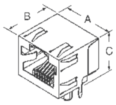

Housing: Black glass-filled high temperature nylon, UL 94V-0
Contact: Gold per FCC 68.5 Specification
Plating: 1.27µm (50µ") min. Gold in contact area and 1.27µm (50µ") Tin/Lead in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 2

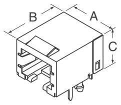

Housing: Black glass-filled nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Post plate 1.27µm min. Gold in contact area, Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 3

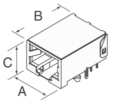

Housing: Black glass-filled nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Select Gold in contact area, 1.27µm (50µ") min. Tin/Lead in tail area, both over Nickel overall
Temperature: -40°C ~ 70°C

Fig. 4 ***NEW!***

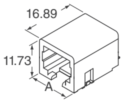

Housing: Black glass-filled nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Select Gold in contact area, 1.27µm (50µ") min. Tin in solder tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 5

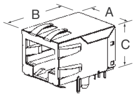

Housing: Black glass-filled nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: Post plate 1.27µm ~ 1.52µm (50µ" ~ 60µ") Gold in contact area, Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 6

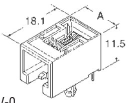

Housing: Black polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Post plate 1.27µm ~ 1.52µm (50µ" ~ 60µ") Gold in contact area, 1.90µm (75µ") min. (90/10) Tin/Lead in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 7

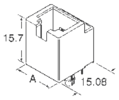

Housing: Gray polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Post plate 1.27µm ~ 1.52µm (50µ" ~ 60µ") Gold in contact area, 1.90µm (75µ") min. (90/10) Tin/Lead in tail area, both over Nickel overall
Note: *Panel cutout SMT are Black polyester, UL 94V-0*
Temperature: -40°C ~ 80°C

Fig. 8

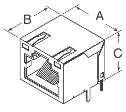

Housing: High temperature thermoplastic *(Polyamide, glass fiber filled for Part No. 48074-9001)* Black, UL 94V-0
Contact: Phosphor Bronze
Plating: 1.27µm (50µ") *(30µ" for Part No. 48074-9001)* min. Gold in contact area and 100µ" min. Tin/Lead in tail area, both over Nickel overall
Temperature: -40°C ~ 70°C

Fig. 9

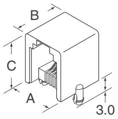

Housing: Black glass-filled polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: 1.27µm (50µ") min. Gold in contact area, 1.0µm min. Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 10

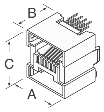

Housing: Black polyamide, glass fiber filled, UL 94V-0
Contact: Phosphor Bronze
Plating: Post plate 1.27µm ~ 1.52µm (50µ" ~ 60µ") Gold in contact area, 1.90µm (75µ") min. Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 11

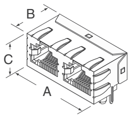

Housing: Black glass-filled nylon polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Select Gold in contact area, 1.27µm min. 2.54µm Tin in tail area, both over Nickel overall
Temperature: (44150-xxxx) -40°C ~ 80°C; (44248-xxxx) -40°C ~ 85°C

Fig. 12

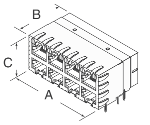

Housing: Black glass-filled nylon polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Select Gold in contact area, 1.27µm min. 2.54µm Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig. 13

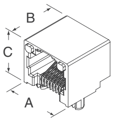

Housing: Black glass-filled nylon polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Select Gold in contact area, 1.27µm min. 2.54µm Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 85°C

Fig. 14

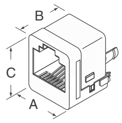

Housing: Black glass-filled nylon polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: Select Gold in contact area, 1.27µm min. 2.54µm Tin in tail area, both over Nickel overall
Temperature: -40°C ~ 85°C (80°C for 42410 series)

Fig. 15

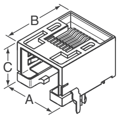

Housing: Black LCP glass-filled, UL 94V-0
Contact: Brass plated
Plating: 1.27µm (50µ") min. Gold in contact area, 1.90µm (75µ") min. tin in tail area, both over Nickel overall
Temperature: -40°C ~ 80°C

Fig.	Circuits-Contacts	Key	Dimensions (mm)			Digi-Key Part No.	Price Each			Molex Part No.
			A	B	C		1	10	100	
Right Angle - Low Profile, Shielded with Lightpipes										
1	8-8	no	16.38	15.39	13.54	WM1637-ND	3.82	3.11	2.40	43860-0010-TR80
Right Angle - Low Profile, Inverted Unshielded										
1	6-4	no	15.75	15.39	13.21	WM5430-ND	1.62	1.32	1.02	43860-0003
	6-6	no	15.75	15.39	13.21	WM5431-ND◆	1.69	1.37	1.06	43860-0002
	8-8	no	15.75	15.39	13.21	WM5432-ND◆	1.82	1.48	1.14	43860-0001
Right Angle - Low Profile, Inverted Shielded with All Panel Grounding Tabs										
1	6-4	no	16.38	15.39	13.54	WM5433-ND	3.05	2.48	1.91	43860-0015
	6-6	no	16.38	15.39	13.54	WM5434-ND◆	3.11	2.53	1.95	43860-0014
	8-8	no	16.38	15.39	13.54	WM5435-ND◆	3.24	2.64	2.03	43860-0013
Right Angle - Low Profile, Inverted Shielded with Offset Panel Grounding Tabs — RoHS Compliant										
1	6-4	no	16.38	15.39	13.54	WM5436-ND	3.05	2.48	1.91	43860-0006
	6-6	no	16.38	15.39	13.54	WM5437-ND	3.11	2.53	1.95	43860-0005
	8-8	no	16.38	15.39	13.54	WM5438-ND	3.24	2.64	2.03	43860-0004
Right Angle - Low Profile, Unshielded										
2	4-4	no	11.18	18.03	11.58	WM5439-ND◆	1.69	1.38	1.06	43202-4101
	6-2	no	13.21	18.03	11.58	WM5440-ND	1.63	1.33	1.03	43202-6107
	6-4	no	13.21	18.03	11.58	WM5473-ND◆	1.67	1.36	1.05	43202-6104
	6-4	no	13.21	18.03	11.58	WM5441-ND	1.63	1.33	1.03	43202-6105
	6-6	no	13.21	18.03	11.58	WM5442-ND◆	1.75	1.43	1.10	43202-6101
	8-4	no	15.24	18.03	11.58	WM5443-ND	1.74	1.41	1.09	43202-8119
	8-6	no	15.24	18.03	11.58	WM5444-ND	1.80	1.47	1.13	43202-8116
	8-8	no	15.24	18.03	11.58	WM5445-ND◆	1.87	1.53	1.17	43202-8104
	8-10	no	15.24	18.03	11.58	WM5446-ND◆	1.94	1.58	1.22	43202-8101
Right Angle - Low Profile — RoHS Compliant										
3	8-8	no	14.58	20.20	10.77	WM5463-ND	7.23	5.88	4.52	44661-0001
	8-8	no	15.75	13.21	15.11	WM5467-ND	2.46	2.01	1.54	44620-0001
	8-8	no	15.06	20.78	11.23	WM5469-ND	7.23	5.88	4.52	44661-0021
NEW! Right Angle - Low Profile SMT, with Flush Fitting Nails — RoHS Compliant NEW!										
4	6-6	no	13.21	—	—	WM5567CT-ND†	1.94	1.58	—	44144-0005
	6-6	no	13.21	—	—	WM5567TR-ND‡	145.50/150			44144-0005
Right Angle - Low Profile, Inverted Shielded — RoHS Compliant										
5	8-8	no	16.38	15.75	13.46	WM5468-ND	3.63	2.95	2.27	44620-0002
Right Angle - Low Profile — RoHS Compliant										
5	8-8	no	16.36	18.64	11.81	WM1635-ND§	3.47	2.82	2.17	43202-8816-TR80
	8-8	no	16.36	18.64	11.81	WM1636-ND▲	3.47	2.82	2.17	43202-8817-TR80
Right Angle - Low Profile SMT										
6	4-4	no	11.18	—	—	WM5416-ND◆	1.24	1.02	.78	95001-6441
	6-4	no	13.21	—	—	WM5417-ND	1.36	1.11	.85	95001-6641
6	6-6	no	13.21	—	—	WM5418-ND◆	1.36	1.11	.85	95001-6661
	8-8	yes	15.24	—	—	WM5420-ND◆	2.09	1.70	1.31	95001-6882
Vertical - Standard Profile with Small Panel Cutout — RoHS Compliant										
7	8-8	yes	15.24	—	—	WM5425-ND	1.61	1.31	1.01	95003-2882
Vertical - Standard Profile with Small Panel Cutout SMT — RoHS Compliant										
7	4-4	no	11.18	—	—	WM5426-ND	1.41	1.15	.89	95003-6441
	6-4	no	13.21	—	—	WM5427-ND	1.41	1.15	.89	95003-6641
Right Angle - Category 5 with LED — RoHS Compliant										
8	8-8	no	16.50	15.75	13.21	WM5448-ND	2.20	1.69	1.36	48146-0011
Right Angle Shielded with Integrated Magnetics and LED — RoHS Compliant										
8	8-8	no	16.20	25.40	13.30	WM5449-ND	14.81	11.40	9.12	48025-0002
	8-8	no	16.20	20.50	13.45	WM5450CT-ND◊†	11.38	8.66	—	48074-9001
	8-8	no	16.20	20.50	13.45	WM5450TR-ND◊‡	742.00/100			48074-9001
Right Angle, Through Hole — RoHS Compliant										
9	4-4	no	12.20	13.00	14.50	WM5464-ND	1.30	1.06	.82	52018-4446
	6-6	no	12.20	13.00	14.50	WM5465-ND	1.30	1.06	.82	52018-6646
	8-8	no	12.20	13.00	14.50	WM5466-ND	3.60	2.93	2.25	52018-8846
Bottom Entry - Low Profile, Through Hole — RoHS Compliant										
10	8-8	no	15.55	12.58	16.75	WM5470-ND	2.09	1.70	1.31	95002-2883
Right Angle - Low Profile — RoHS Compliant										
11	2 x 8-8	no	31.12	21.02	14.63	WM5471-ND	9.26	7.53	5.79	44150-0005
	4 x 8-8	no	59.05	21.02	14.63	WM5482-ND	18.52	15.05	11.58	44150-0006
	2 x 8-8	no	32.36	15.47	13.45	WM5475-ND	6.53	5.31	4.09	44248-0085
	4 x 8-8	no	63.86	15.47	13.45	WM5476-ND	12.27	9.97	7.67	44248-0086
	2 x 8-8	no	32.36	15.47	13.45	WM5477-ND	7.73	6.29	4.84	44248-0029
	4 x 8-8	no	63.86	15.47	13.45	WM5478-ND	14.67	11.92	9.17	44248-0030
Right Angle, Shielded, Lightpipes, Stacked — RoHS Compliant										
12	8-8	no	59.18	33.95	26.73	WM5472-ND	35.81	29.10	22.38	44170-0001
Right Angle - Low Profile, Inverted, Lightpipes — RoHS Compliant										
13	8-8	no	15.75	14.99	13.21	WM5474-ND	2.82	2.30	1.77	43860-0007
Vertical - Low Profile — RoHS Compliant										
14	8-8	no	18.03	16.38	15.88	WM5565-ND ***NEW!***	1.53	1.25	.96	42410-8312
	8-8	no	18.03	16.38	15.88	WM5566-ND§ ***NEW!***	1.53	1.25	.96	42410-8314
	6-4	no	13.46	12.70	15.88	WM5479-ND	1.41	1.15	.89	42878-6362
	6-6	no	13.46	12.70	15.88	WM5480-ND	1.45	1.18	.91	42878-6218
	8-8	no	15.49	12.70	15.88	WM5481-ND	1.50	1.23	.95	42878-8410
Right Angle, Shielded - Low Profile — RoHS Compliant										
15	8-8	no	15.24	18.10	11.50	WM6056-ND	2.55	2.08	1.60	95540-2881
	8-8	no	15.24	18.10	11.50	WM6055CT-ND◊†	1.61	1.23	—	95540-6886
	8-8	no	15.24	18.10	11.50	WM6055TR-ND◊‡	173.10/150			95540-6886
Dust Cover — RoHS Compliant										
Dust Cover for 8 Position Modular Jack........						WM5447-ND	1.49	1.15	—	85999-3255

† Cut Tape ‡ Tape and Reel § No Top or Side Tabs ▲ Top Tabs ◊ SMT Type ◆ *RoHS Compliant*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

BULGIN

Bluetooth Buccaneer® Adapters

Dim. in mm

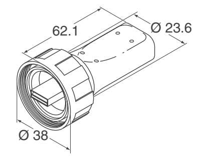

Features: • Dust and waterproof to IP68 standard when mated • Bluetooth V1.1 and V1.2 • Up to 100m range • Built-in antenna • Standard A-type USB interface • Secure screw thread locking • Windows XP recognized **Specifications:** • Frequency Band: 2.4GHz unlicensed ISM band • Sensitivity: -76dBm • Maximum Data Rate: 723kbps

Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
IP68 Rated, USB / Bluetooth Adapter, Class I	708-1000-ND	79.96	71.15	59.17	PX0880/1
IP68 Rated, USB / Bluetooth Adapter, Class II	708-1001-ND	61.15	54.42	45.26	PX0880/2

USB Buccaneer® Connectors

Features: • Dust and waterproof to IP68 standard when mated • USB version 2.0 performance • Low and high speed bus connection, 1.5Mbs to 480Mbs • Plug and play capability • Visual mating indication • Screw coupling • High noise immunity and EMI protection • Suitable for PC and peripheral configuration **Electrical Specifications:** • Current Rating: 1A • Voltage Rating: 30VAC (RMS) • Contact Resistance: 30mΩ maximum **Material Specifications:** • Shell Material: Nickel plated steel • Insulation moulding: Nylon 6 • Flammability: UL94V-0 • Contact Material: 30µ" gold plated copper alloy • Over mould material: Black PVC • Operating Temperature Range: 0°C ~ 70°C • Mating Cycles: 1,000

Dim. in mm

Fig. 1

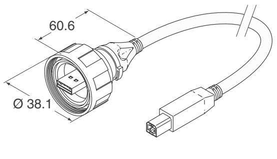

Fig. 2

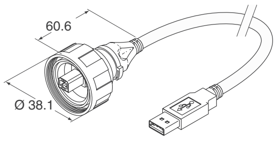

Fig. 3

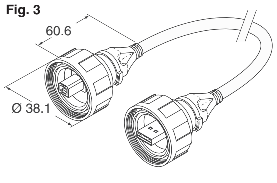

Fig. 4

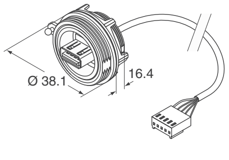

Fig. 5

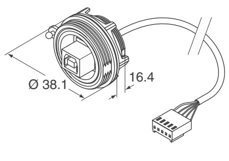

Fig. 6

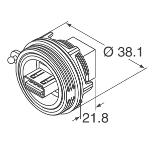

Fig. 7

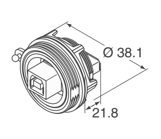

Fig. 8

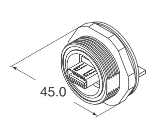

Fig. 9

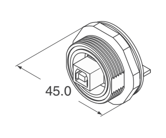

Fig. 10

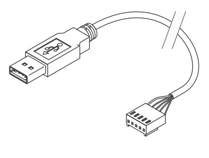

Fig. 11

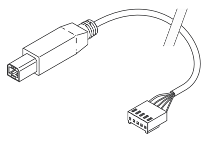

Fig. 12

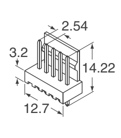

Fig. 13

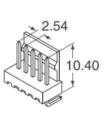

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
	Sealed USB Cable Assemblies					
1	IP68 Sealed Type A USB to Standard Type B USB, 2.0m Cable	708-1011-ND	8.96	7.97	6.64	PX0840/A/2M00
	IP68 Sealed Type A USB to Standard Type B USB, 3.0m Cable	708-1012-ND	11.06	9.84	8.19	PX0840/A/3M00
	IP68 Sealed Type A USB to Standard Type B USB, 5.0m Cable	708-1013-ND	14.72	13.11	10.89	PX0840/A/5M00
2	IP68 Sealed Type B USB to Standard Type A USB, 2.0m Cable	708-1014-ND	8.96	7.97	6.64	PX0840/B/2M00
	IP68 Sealed Type B USB to Standard Type A USB, 3.0m Cable	708-1015-ND	11.06	9.84	8.19	PX0840/B/3M00
	IP68 Sealed Type B USB to Standard Type A USB, 5.0m Cable	708-1016-ND	14.72	13.11	10.89	PX0840/B/5M00
3	IP68 Sealed Type A USB to IP68 Type B USB, 2.0m Cable	708-1017-ND	14.42	12.83	10.67	PX0841/AB/2M00
	IP68 Sealed Type A USB to IP68 Type B USB, 3.0m Cable	708-1018-ND	16.97	15.10	12.56	PX0841/AB/3M00
	IP68 Sealed Type A USB to IP68 Type B USB, 5.0m Cable	708-1019-ND	20.14	17.92	14.90	PX0841/AB/5M00
	Front Panel Mount Connectors					
4	IP68 Sealed Type A USB Front, 5 Position Crimp Connector Rear, 132mm Cable	708-1022-ND	11.12	9.90	8.24	PX0843/A
5	IP68 Sealed Type B USB Front, 5 Position Crimp Connector Rear, 132mm Cable	708-1023-ND	11.12	9.90	8.24	PX0843/B
6	IP68 Sealed Type A USB Front, Standard Type B Rear	708-1020-ND	10.11	9.00	7.47	PX0842/A
7	IP68 Sealed Type B USB Front, Standard Type A Rear	708-1021-ND	10.11	9.00	7.47	PX0842/B
	Rear Panel Mount — PCB Direct Mount Connectors					
8	IP68 Sealed Type A USB Front, Direct Mount PCB Contacts Rear	708-1024-ND	11.12	9.90	8.24	PX0845/A
9	IP68 Sealed Type B USB Front, Direct Mount PCB Contacts Rear	708-1025-ND	11.12	9.90	8.24	PX0845/B
	PCB Adapter Leads					
10	Type A USB to 5 Position Crimp Connector, 100mm Cable	708-1026-ND	3.34	2.97	2.47	14193
11	Type B USB to 5 Position Crimp Connector, 100mm Cable	708-1027-ND	3.34	2.97	2.47	14194
	Headers					
12	5 Position Straight PCB Header	708-1028-ND	.23	.20	.17	14191
13	5 Position Right Angle PCB Header	708-1029-ND	.27	.24	.20	14192

Ethernet Buccaneer® Connectors

Features: • Dust and waterproof sealing to IP68 standard when mated • Cat5e compliant • Shielded system • Screw coupling • Data rate up to 100MHz • High noise immunity and EMI protection • Ability to "field" terminate

Cable Specifications: • Impedance: 100Ω ± 15Ω @ 100MHz • Capacitance: 330pF/km • Conductors: 24AWG bare copper • Insulation: HD-PE • Tape: 1 lap mylar tape • Screen: 1 layer mylar and aluminum tape, 0.12mm tinned copper braid • Sheath: Black Polyurethane (PUR) Jacket • Operating Temperature: -25°C ~ 85°C • Minimum Bend Radius Before Installation: 10 x O.D. • Minimum Bend Radius Installed: 6 x O.D. • Diameter: 6.1mm nominal

Connector Specifications: • Connector Body: Polyester • Flammability: UL94V-0 • O-Rings: Silicon • Panel Gasket: Silicon • Operating Temperature: -20°C ~ 70°C

RJ45 Plug Specifications: • Current Rating: 1.5A • Voltage Rating: 30VAC, 42VDC • Contact Resistance: 10mΩ maximum • Moulding: Polycarbonate • Flammability: UL94V-0 • Contact Material: Phosphor Bronze • Contact Plating: 50µ" gold • Operating Temperature: -40°C ~ 70°C • Mating Cycles: 1,000

RJ45 Coupler Specifications: • Current Rating: 1.5A • Voltage Rating: 30VAC, 42VDC • Contact Resistance: 10mΩ maximum • Coupler Shell: Nickel plated copper alloy • Moulding: ABS • Flammability: UL94V-0 • Contact Material: 50µ" gold plated phosphor bronze • Operating Temperature: -40°C ~ 70°C • Mating Cycles: 1,000

Dim. in mm

Fig. 1

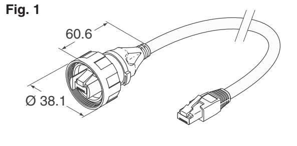

Fig. 2

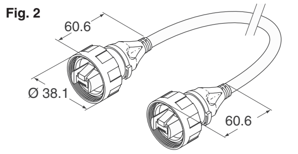

Fig. 3

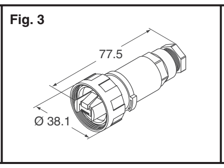

Fig. 4

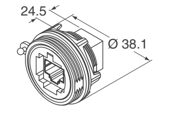

Fig. 5

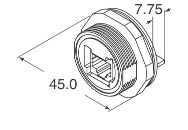

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
1	IP68 Sealed RJ45 to Shielded RJ45, 2.0m Cable	708-1003-ND	23.83	21.22	17.64	PX0837/2M00
	IP68 Sealed RJ45 to Shielded RJ45, 3.0m Cable	708-1004-ND	27.65	24.61	20.47	PX0837/3M00
	IP68 Sealed RJ45 to Shielded RJ45, 5.0m Cable	708-1005-ND	31.46	28.00	23.29	PX0837/5M00
2	IP68 Sealed RJ45 to IP68 Sealed RJ45, 2.0m Cable	708-1006-ND	29.56	26.30	21.88	PX0838/2M00
	IP68 Sealed RJ45 to IP68 Sealed RJ45, 3.0m Cable	708-1007-ND	34.32	30.55	25.40	PX0838/3M00
	IP68 Sealed RJ45 to IP68 Sealed RJ45, 5.0m Cable	708-1008-ND	37.18	33.09	27.52	PX0838/5M00
3	Flex Connector with Shielded RJ45, For Cables 3.5mm ~ 8mm Diameter	708-1002-ND	16.00	14.23	11.84	PX0834/B
4	Panel Mount Cat5e Shielded Connector	708-1009-ND	33.33	29.66	24.66	PX0833
5	Rear Panel Mount Cat5e Shielded RJ45 Connector	708-1010-ND	11.87	11.03	9.77	PX0839/PC

BULGIN

Mini USB Buccaneer® Connectors

Utilizing the industry standard Mini B connection for the panel connection, the latest in the USB Buccaneer range offers a secure, robust connection performing to USB V2.0, where dust or water could prove detrimental to system operation. The system is fully shielded providing good levels of noise immunity and EMI protection. Cables are fully overmoulded offering secure, tamper-proof connections. **Specifications:** • Protection Rating: IP68 • Current Rating: 1A • Voltage Rating: 30VAC, 42VDC • Contact Resistance: 50Ω • Mating Cycles: 5,000 • Connector Body: UL94V-0 Rated • Temperature Range: -20°C ~ 70°C

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
		Cable Assemblies				
1	IP68 Sealed Mini B USB Type A USB, 2.0m	708-1229-ND	10.62	9.45	7.86	PX0441/2M00
	IP68 Sealed Mini B USB Type A USB, 3.0m	708-1230-ND	12.66	11.27	9.37	PX0441/3M00
	IP68 Sealed Mini B USB Type A USB, 4.5m	708-1231-ND	22.88	20.36	16.93	PX0441/4M50
2	IP68 Sealed Mini B USB to Mini A USB, 2.0m	708-1232-ND	11.85	10.55	8.76	PX0442/2M00
	IP68 Sealed Mini B USB to Mini A USB, 3.0m	708-1233-ND	13.89	12.36	10.28	PX0442/3M00
	IP68 Sealed Mini B USB to Mini A USB, 4.5m	708-1234-ND	24.10	21.45	17.83	PX0442/4M50
		Connectors				
3	Panel Mount Mini B, 5 position Female Connector	708-1235-ND	7.15	6.36	5.29	PX0443
4	Rear Panel Mount, Mini B USB, 5 position Connector	708-1236-ND	7.15	6.36	5.29	PX0446
5	Rear Panel Mount, Mini B USB, PC Terminals	708-1237-ND	7.15	6.36	5.29	PX0447

Dim. in mm

Fig. 1

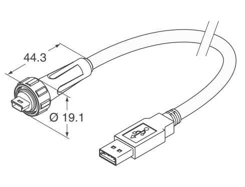

Fig. 2

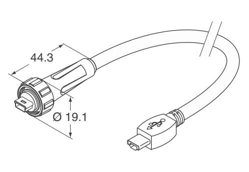

Fig. 3

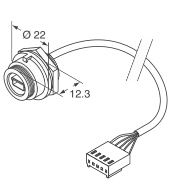

Fig. 4

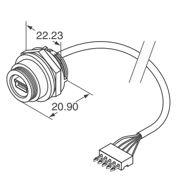

Fig. 5

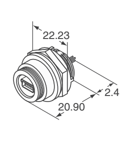

FireWire™ Buccaneer® Connectors

Features: • Dust and waterproof sealing to IP68 standard when mated • IEEE1394A performance to 400Mbs • Screw coupling • Industry standard connection • Shielded system **Electrical Specifications:** • Current Rating: 1A • Voltage Rating: 30VAC • Contact Plating: 30µ" gold • Connector Body: UL94V-0 rated • Operating Temperature Range: 0°C ~ 70°C **Material Specifications:** • Connectors: Shell Material: Nickel plated steel • Insulation moulding: Glass filled PBT • Contact Material: 30µ" gold plated copper alloy • Mating Cycles: 1,000 **Cable Connectors:** • Overmould Material: PVC **Panel Connectors:** • Body Moulding: Polyamide

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
		Cable Assemblies				
1	Sealed 4 Position to Standard 4 Position, 2.0m	708-1279-ND	26.92	25.03	22.16	PX0417/2M00
	Sealed 4 Position to Standard 4 Position, 4.0m	708-1280-ND	36.65	34.09	30.16	PX0417/4M00
2	Sealed 4 Position to Standard 6 Position, 2.0m	708-1281-ND	26.92	25.03	22.16	PX0418/2M00
	Sealed 4 Position to Standard 6 Position, 4.0m	708-1282-ND	36.65	34.09	30.16	PX0418/4M00
3	Sealed 6 Position to Standard 6 Position, 2.0m	708-1283-ND	31.44	29.24	25.88	PX0846/2M00
	Sealed 6 Position to Standard 6 Position, 4.0m	708-1284-ND	43.30	40.27	35.63	PX0846/4M00
4	Sealed 6 Position to Standard 4 Position, 2.0m	708-1285-ND	28.52	25.45	22.42	PX0851/2M00
	Sealed 6 Position to Standard 4 Position , 4.0m	708-1286-ND	38.60	34.44	30.33	PX0851/4M00
5	Panel Mount Sealed 4 Position, 5 Position Connector	708-1287-ND	13.75	12.78	11.31	PX0419
6	Panel Mount Sealed 6 Position, 7 Position Connector	708-1288-ND	14.95	13.90	12.30	PX0847
		Connectors and Sealing Caps				
5A	5 Position PCB Header, Straight	708-1028-ND	.23	.20	.17	14191
5B	5 Position PCB Header, Right Angle	708-1029-ND	.27	.24	.20	14192
6A	7 Position PCB Header, Straight	708-1289-ND	.60	.56	.49	14358
6B	7 Position PCB Header, Right Angle	708-1290-ND	.65	.61	.54	14359
—	Sealing Cap for PX0417, PX0418	708-1291-ND	1.45	1.33	1.18	PX0485/BK
	Sealing Cap for PX0419	708-1292-ND	1.45	1.33	1.18	PX0480/BK
	Sealing Cap for PX0846, PX0851	708-1293-ND	1.87	1.67	1.39	PX0835

Dim. in mm

Fig. 1

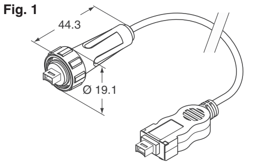

Fig. 2

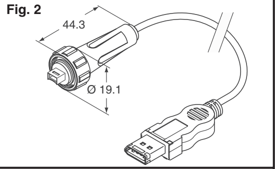

Fig. 3

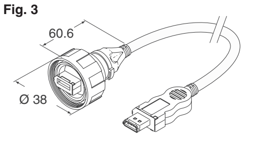

Fig. 4

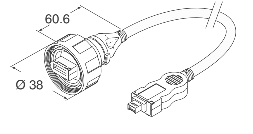

Fig. 5

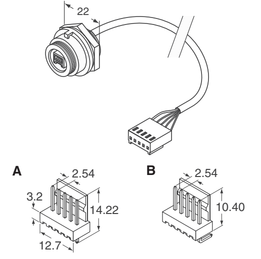

Fig. 6

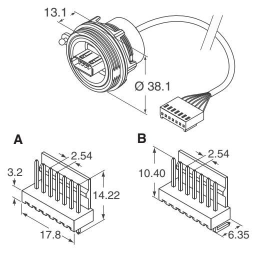

samtec

NEW! IP68 Ethernet Circular Connectors SCPE Series

Specifications:
• **Insulator Material:** Polycarbonate • **Contact Material:** Phosphor Bronze • **Shield Material:** Phosphor Bronze • **Overmold:** PA66 GF 13 FR • **Operating Temperature Range:** -40°C ~ 70°C • **Mates with:** SCRE • **Wire:** 24AWG

Fig. 1

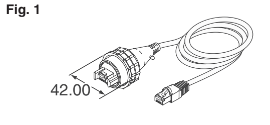

Fig. 2

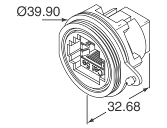

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Samtec Part No.
		Cable Plug Assemblies				
1	Sealed RJ45 Plug to RJ45, 2.0m	SAM8626-ND	32.97	25.37	24.10	SCPE-G-2.00-S
	Sealed RJ45 Plug to RJ45, 3.0m	SAM8627-ND	36.84	28.34	26.92	SCPE-G-3.00-S
	Sealed RJ45 Plug to RJ45, 5.0m	SAM8628-ND	46.55	35.53	34.30	SCPE-G-5.00-S
		Receptacle				
2	Sealed RJ45 Receptacle	SAM8629-ND	15.62	11.58	10.65	SCRE-01

NEW! IP68 USB Circular Connectors SCPU Series

Specifications: • **Insulator Material:** Glass Filled Thermoplastic • **Contact Material:** Copper Alloy • **Shield Material:** CRS • **Sealed Overmold:** PA66 GF 13 FR • **Operating Temperature Range:** -20°C ~ 75°C • **Mates with:** SCRU

Fig. 1

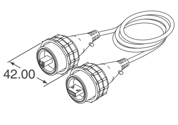

Fig. 2

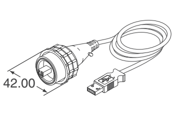

Fig. 3

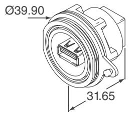

Fig. 4

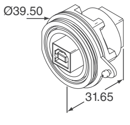

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Samtec Part No.
		Cable Plug Assemblies				
1	Sealed Type A to Sealed Type B, 2.0m	SAM8630-ND	23.28	17.81	16.88	SCPU-17-G-2.00-AMS-BMS
	Sealed Type A to Sealed Type B, 3.0m	SAM8631-ND	24.90	18.68	18.06	SCPU-17-G-3.00-AMS-BMS
	Sealed Type A to Sealed Type B, 5.0m	SAM8632-ND	29.32	21.99	21.26	SCPU-17-G-5.00-AMS-BMS
2	Sealed Type B to Type A, 2.0m	SAM8633-ND	19.55	14.44	13.97	SCPU-17-G-2.00-BMS-AM
	Sealed Type B to Type A, 3.0m	SAM8634-ND	20.92	15.24	14.94	SCPU-17-G-3.00-BMS-AM
	Sealed Type B to Type A, 5.0m	SAM8635-ND	23.46	17.95	17.01	SCPU-17-G-5.00-BMS-AM
		Receptacles				
3	Sealed USB Type A, Panel Mount	SAM8636-ND	8.52	6.04	5.79	SCRU-01
4	Sealed USB Type B, Panel Mount	SAM8637-ND	8.52	6.04	5.79	SCRU-02

Fig. 1 — TX MagJack®

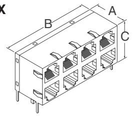

Fig. 2 — TX MagJack®

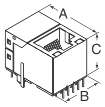

Fig. 3 — TX MagJack®

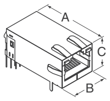

Fig. 4 — TX MagJack®

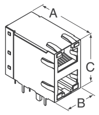

Fig. 5 — Series SI, 64, 70, 71

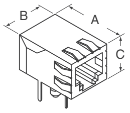

Fig. 6 — Series SI

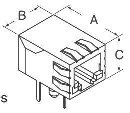

With LEDs

Fig. 7 — Series SI, 60, 65, 71

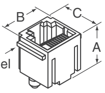

Shown with optional panel stop flanges

Fig. 8 — Series 66, 71

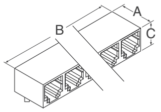

Fig. 9 — Series 68

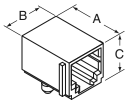

Fig. 10 — Series SI, TX, 71

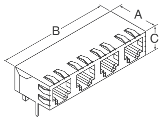

Fig. 11 — Series 73, SI

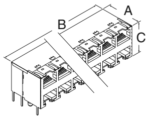

Fig. 12 — Series 80, 82

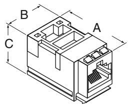

Fig. 13 — Series SI, TX, 60

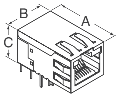

Fig. 14 — Series SI

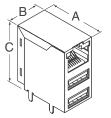

Fig. 15 — Series 30, 36, 37, 39

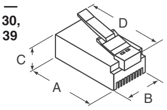

10/100 Base-TX MagJack®: Multi-port shielded RJ-45 connector with integrated 10/100 magnetics. Highly integrated design conserves valuable board space. Design supports AutoMDIX applications. 50 micro-inch hard gold-plated contacts. UL 94V-0. Operating Temperature 0°C ~ 70°C.

SI Series: MagJack Modular Jacks with Integrated Magnetics. The SI Series MagJack connectors offers filtering capabilities for your high-speed network and telecom applications. By integrating the magnetics into the jack body, MagJack high-speed connectors improve your signal while saving you board space.

Note: Pin without electrical connections are omitted.

Series 64 and 70: These jacks provide versatile and reliable right-angle solutions for your networking applications.

Series 66: Our extensive line of single-row harmonica jacks offers shielded and unshielded solutions for twisted-pair networking environments. The contacts are fully enclosed for maximum efficiency and long life.

Series 68: SOF-LOK™ posts use metal tabs to lock the jack tightly to the board with minimum impact. The pogo-action contacts provide uniform pressure to the solder pads and absorb the shock of repeated mating cycles for maximum durability.

Series 71: Our high-performance modular jacks are designed for fast installation into high-speed applications. The industry-standard, eight-position design is an easy drop-in replacement for Category 3 jacks.

Series 73: Enhanced shielding provides optimum protection against EMI and our unique panel tabs provide high normal force for superior shielding effectiveness. The longer springs allow repeated insertions/withdrawals from a panel, and prevent "fish hooking" on the panel if overinserted. High-Performance StackJack connectors are designed for demanding Category 5 applications.

Series 80: The rugged design of our cable-ready jacks is ideal for telco, data, mobile, and coupling applications. Available with built-in strain relief.

ARJ45™ Category 7a: Category 7 and Category 7a premise wiring systems deployed in 10G Ethernet and higher speed data transmission environments. This connector consists of a cable-mounted plug and a single-port, PCB-mounted jack designed to meet Category 7 performance standards up to 600MHz as defined by the IEC60603-7-7. These products will also meet proposed Category 7a specifications increasing performance requirements up to 1000MHz. Additionally, the ARJ45 can be used as a high speed connector replacement for closed loop applications currently using less economical connector types.

30 Series: Unshielded modular plugs offer superior performance for voice, data, and high-speed networking applications.

36 Series: Shielded modular plugs provide a highly reliable connection to jacks for high-speed networking applications. Superior shielding characteristics make the 36 Series plugs ideal for environments that require protection from EMI.

Series 37: Category 5 modular plugs are designed to provide exceptional performance in high-speed communication applications. All 37 Series plugs use electropolished, 50 micro-inch gold-plated contacts for the most reliable, long-lasting performance.

Series 39: The high performance modular plug for cutting edge premises wiring applications.

Series	Fig.	Description	Pos.-Contacts	Dimensions - Inch (mm)			Digi-Key Part No.	Price Each		Stewart Part No.
				A	B	C		1	25	
MagJack® ICMs (Integrated Connector Modules)										
TX	1	MagJack RJ-45 with EMI Shielding, 8 Port, 10/100BT	8-8	1.130 (28.70)	2.330 (59.18)	1.004 (25.50)	380-1088-ND	17.28	14.35	0811-2X4R-28
		MagJack, 8 Port, 10/100BT	8-8	1.130 (28.70)	2.330 (59.18)	1.004 (25.50)	380-1126-ND◆	18.14	15.06	0811-2X4R-28-F
		MagJack RJ-45 with EMI Shielding, 12 Port, 10/100BT	8-8	1.130 (28.70)	3.430 (87.12)	1.004 (25.50)	380-1089-ND	25.90	21.50	0811-2X6R-28
		MagJack, 12 Port, 10/100BT	8-8	1.130 (28.70)	3.430 (87.12)	1.004 (25.50)	380-1127-ND◆	27.20	22.58	0811-2X6R-28-F
		MagJack RJ-45 with EMI Shielding, 16 Port, 10/100BT	8-8	1.130 (28.70)	4.530 (115.06)	1.004 (25.50)	380-1090-ND	56.36	46.78	0811-2X8R-28
		MagJack, 16 Port, 10/100BT	8-8	1.130 (28.70)	4.530 (115.06)	1.004 (25.50)	380-1128-ND◆	36.26	30.10	0811-2X8R-28-F
	2	MagJack, 1Port , Vertical, Gigabit Ethernet, Green/Yellow LED	8-8	.920 (23.37)	.640 (16.26)	.670 (17.02)	380-1120-ND◆	6.14	5.76	V890-1AX1-A1
	3	MagJack, 1 Port, Gigabit Ethernet, Green-Orange/Yellow LED	8-8	1.300 (33.02)	.661 (16.79)	.536 (13.61)	380-1121-ND◆	6.85	6.42	0826-1X1T-23-F
		MagJack, 1 Port, Gigabit VOIP, Green-Orange/Yellow LED	8-8	1.290 (32.77)	.642 (16.31)	.536 (13.61)	380-1122-ND◆	10.27	9.63	0826-1X1T-M1-F
	4	MagJack, 2x1 Port, Green/Green LED	8-8	1.335 (33.91)	.679 (17.25)	1.080 (27.43)	380-1123-ND◆	7.90	7.41	0845-2G1T-H5
		MagJack, 2X1 Port, Green/Yellow-Green LED	8-8	1.335 (33.91)	.679 (17.25)	1.080 (27.43)	380-1124-ND◆	12.32	11.55	0845-2R1T-E4
	10	MagJack RJ-45, 2 Port, 10/100/1000BT Green/Green LED	8-8	1.000 (25.40)	1.238 (31.45)	.545 (13.84)	380-1112-ND◆	13.63	12.78	0875-1G2T-E3
	13	MagJack RJ-45, 10/100/1000 Gigabit Ethernet, Yellow/Green-Yellow LED	8-8	.950 (24.13)	.700 (17.78)	.445 (11.30)	380-1110-ND◆	6.40	6.00	L829-1J1T-43
		MagJack RJ-45, 10/100/1000 Gigabit Ethernet, Green/Green LED	8-8	1.026 (26.06)	.650 (16.52)	.448 (11.38)	380-1111-ND◆	6.40	6.00	L834-1G1T-S7
SI	5	MagJack RJ-45 with EMI Shielding, Common Mode Choke	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1115-ND*◆	7.17	6.72	SI-60063-F
		MagJack with EMI Shielding	8-8	.850 (21.59)	.635 (16.13)	.599 (15.21)	380-1105-ND*◆	4.29	4.02	SI-60002-F
	6	MagJack RJ45 w/EMI Shielding, Green/Yellow Bi-Color LED on Both Sides	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1117-ND*◆	4.64	4.35	SI-60024-F
		MagJack RJ45 w/EMI Shielding, Yellow/Green LED	8-8	.850 (21.59)	.635 (16.13)	.599 (15.21)	380-1106-ND*◆	4.64	4.35	SI-60062-F
	7	MagJack with EMI Shielding, 10/100BT, Yellow/Green LED	8-8	.670 (17.02)	.640 (16.26)	.670 (17.02)	380-1108-ND*◆	4.67	4.38	SI-46001-F
	10	MagJack with EMI Shielding, 2 Port, 10/100BT, Green LED	8-8	.828 (21.03)	1.220 (30.99)	.545 (13.84)	380-1116-ND*◆	18.02	16.89	SI-60082-F
		MagJack with EMI Shielding, 4 Port, 10/100BT	8-8	.865 (21.97)	2.354 (59.79)	.545 (13.84)	380-1114-ND*◆	16.38	15.36	SI-60128-F
		MagJack with EMI Shielding, 4 Port, 10/100BT, Green LED	8-8	.865 (21.97)	2.354 (59.79)	.545 (13.84)	380-1118-ND*◆	17.25	16.17	SI-60105-F
	11	MagJack with EMI Shielding, 8 Port, 10/100BT	8-8	1.103 (28.02)	2.329 (59.16)	1.004 (25.50)	380-1080-ND*	21.82	18.12	SI-30005
		MagJack with EMI Shielding, 12 Port, 10/100BT	8-8	1.103 (28.02)	3.429 (87.10)	1.004 (25.50)	380-1081-ND*	32.72	27.16	SI-30006
		MagJack with EMI Shielding, 16 Port, 10/100BT	8-8	1.103 (28.02)	4.529 (115.04)	1.004 (25.50)	380-1082-ND*	43.64	36.23	SI-30019
	13	MagJack with EMI Shielding, 1 Port, 10/100BT, Green LED	8-8	1.000 (25.40)	.635 (16.13)	.550 (13.97)	380-1086-ND*	4.35	4.08	SI-50170
		MagJack with EMI Shielding, 1 Port, 10/100/1000BT, Green LED	8-8	1.300 (33.02)	.661 (16.79)	.536 (13.61)	380-1085-ND*	12.67	11.88	SI-50080
		MagJack with EMI Shielding, 10/100BT, Green/Yellow LED	8-8	1.000 (25.40)	.635 (16.13)	.550 (13.97)	380-1102-ND*◆	4.58	4.29	SI-50154-F
		MagJack with EMI Shielding, 10/100, Green LED	8-8	1.000 (25.40)	.635 (16.13)	.550 (13.97)	380-1103-ND*◆	4.58	4.29	SI-50170-F
		MagJack with EMI Shielding, 10/100, Green LED	8-8	.986 (25.04)	.599 (15.21)	.523 (13.28)	380-1104-ND*◆	4.22	3.96	SI-50196-F
		MagJack with EMI Shielding, 10/100/1000 Gigabit Ethernet, Green LED	8-8	1.000 (25.40)	.635 (16.13)	.550 (10.79)	380-1109-ND*◆	6.08	5.70	SI-51009-F
		MagJack with EMI Shielding, 10/100BT, Green LED	8-8	1.000 (25.40)	.635 (16.13)	.550 (13.97)	380-1107-ND*◆	5.66	5.31	SI-52002-F
	6	MagJack 1 Port, 10/100BT, Green/Green LED	8-8	1.000 (25.40)	.635 (16.13)	.550 (13.97)	380-1119-ND◆	5.66	5.31	SI-52003-F
	14	MagJack Dual USB with EMI Shielding, Green/Yellow LED	—	1.090 (27.69)	.751 (19.07)	1.237 (31.42)	380-1091-ND*◆	4.93	4.62	C893-1AX1-EI
Modular Connector Jacks										
60	7	Jack, CAT-6, Unshielded without Stops	8-8	.650 (16.51)	.610 (15.49)	.644 (16.36)	380-1094-ND◆	1.54	1.44	SS-60000-007
		Jack, CAT-6, Shielded without Stops	8-8	.670 (17.02)	.640 (16.26)	.670 (17.02)	380-1095-ND◆	2.27	2.13	SS-60000-008
	13	Jack, CAT-6, Unshielded without Stops	8-8	.815 (20.70)	.605 (15.36)	.535 (13.59)	380-1097-ND◆	1.54	1.44	SS-60000-010
		Jack, CAT-6, Shielded without Stops	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1096-ND◆	2.27	2.13	SS-60000-009
64	5	Jack, Unshielded without Stops	4-4	.815 (20.70)	.445 (11.30)	.505 (12.83)	380-1017-ND◆	.77	.72	SS-6444-NF
		Jack, Unshielded without Stops	6-4	.815 (20.70)	.530 (13.46)	.505 (12.83)	380-1018-ND◆	.93	.87	SS-6446-NF
		Jack, Unshielded without Stops	6-6	.815 (20.70)	.530 (13.46)	.505 (12.83)	380-1019-ND◆	.93	.87	SS-6466-NF
		Jack, Shielded without Stops	6-6	.850 (21.59)	.545 (13.84)	.545 (13.84)	380-1020-ND◆	1.63	1.53	SS-6466S-A-PG4-BA-50
		Jack, Unshielded with Stops	8-8	.815 (20.70)	.605 (15.36)	.505 (12.82)	380-1021-ND◆	.86	.81	SS-6488-FLS
		Jack, Unshielded without Stops	8-8	.815 (20.70)	.605 (15.36)	.505 (12.82)	380-1022-ND◆	.86	.81	SS-6488-NF
		Jack, 1pc Shield with Stops	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1023-ND◆	1.57	1.47	SS-6488S-A-FLS
		Jack, 1pc Shield without Stops	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1024-ND◆	1.86	1.74	SS-6488S-A-NF
		Jack, 1pc Shield without Stops, Standard Shield Ground Tail	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1025-ND◆	1.86	1.74	SS-6488S-A-PG4-BA
		Jack, Unshielded without Stops	10-10	.815 (20.70)	.605 (15.36)	.505 (12.83)	380-1015-ND◆	1.06	.99	SS-641010-NF
		Jack, 1pc Shield without Stops	10-10	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1016-ND◆	1.76	1.65	SS-641010S-A-NF
65	7	Jack, Unshielded without Stops	4-4	.650 (16.51)	.455 (11.56)	.650 (16.51)	380-1030-ND	1.76	1.65	SS-6544-NF
		Jack, Unshielded without Stops	10-8	.650 (16.51)	.615 (15.62)	.644 (16.36)	380-1026-ND◆	.86	.81	SS-650810-A-NF

*** Note: Pins without electrical connections may be omitted.** ◆ ***RoHS Compliant***

(Continued)

Stewart Connector

Modular Connectors and Tools *(Cont.)*

Series	Fig.	Description	Pos. - Contacts	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	Stewart Part No.
65	7	Jack, 1pc Shield with Stops	10-8	.670 (17.02)	.640 (16.26)	.670 (17.02)	380-1027-ND◆	2.27	2.13	SS-650810S-A-FLS
		Jack, 1pc Shield without Stops	10-8	.670 (17.02)	.640 (16.26)	.670 (17.02)	380-1028-ND◆	2.27	2.13	SS-650810S-A-NF
		Jack, Unshielded without Stops	10-10	.650 (16.51)	.615 (15.62)	.644 (16.36)	380-1029-ND◆	1.70	1.59	SS-651010-A-NF
		Jack, Unshielded with Stops	10-10	.650 (16.51)	.615 (15.62)	.644 (16.36)	380-1113-ND◆	1.15	1.08	SS65100-030F
66	8	Jack, Unshielded, 2 Port without Stops	6-6	.815 (20.70)	.848 (21.54)	.503 (12.78)	380-1031-ND◆	3.71	3.48	SS-666602-NF
		Jack, Unshielded, 4 Port without Stops	6-6	.815 (20.70)	1.744 (44.30)	.503 (12.78)	380-1032-ND◆	4.93	4.62	SS-666604-NF
		Jack, Unshielded, 6 Port without Stops	6-6	.815 (20.70)	2.640 (67.06)	.503 (12.78)	380-1033-ND	11.17	10.47	SS-666606-NF
		Jack, Shielded, 4 Port without Stops	8-8	.865 (21.97)	2.100 (53.34)	.545 (13.84)	380-1035-ND◆	6.50	6.09	SS-668804S-A-PG4-AC
		Jack, Unshielded, 4 Port without Stops	8-8	.815 (20.70)	4.300 (109.22)	.523 (13.28)	380-1034-ND	3.20	3.00	SS-668804-NF
		Jack, Shielded, 8 Port without Stops	8-8	.865 (21.97)	4.300 (109.22)	.545 (13.84)	380-1036-ND	11.23	10.53	SS-668808S-A-PG4-AC
68	9	Jack, Unshielded, with Stops	6-6	.725 (18.42)	.526 (13.34)	.505 (12.83)	380-1037-ND	2.88	2.70	SS6866B-FLS-C40
70	5	Jack, Unshielded without Stops	6-4	.712 (18.08)	.525 (13.33)	.453 (11.51)	380-1042-ND	1.54	1.44	SS-7046-NF
		Jack, Unshielded without Stops	6-6	.712 (18.08)	.525 (13.33)	.453 (11.51)	380-1043-ND◆	1.63	1.53	SS-7066-NF
		Jack, Unshielded without Stops	10-8	.712 (18.08)	.600 (15.24)	.453 (11.51)	380-1038-ND	1.09	1.02	SS-700810-NF
		Jack, 1pc Shield without Stops, Alternate Style Shield Ground Tail	10-8	.738 (18.74)	.626 (15.90)	.475 (12.06)	380-1039-ND◆	2.43	2.28	SS-700810S-A-PG4-1-BA
		Jack, 1pc Shield without Stops	10-8	.738 (18.74)	.626 (15.90)	.475 (12.06)	380-1040-ND◆	2.43	2.28	SS-700810S-A-PG4-BA
71	5	Jack, Unshielded without Stops	8-8	.815 (20.70)	.605 (15.36)	.505 (12.82)	380-1046-ND◆	1.02	.96	SS-7188-NF
		Jack, 1pc Shield without Stops, Without Panel Stop Flanges	8-8	.815 (20.70)	.605 (15.36)	.505 (12.82)	380-1047-ND◆	1.98	1.86	SS-7188S-A-NF
		Jack, 1pc Shield without Stops, Alternate Style Shield Ground Tail	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1048-ND◆	1.98	1.86	SS-7188S-A-PG4-1-BA
		Jack, 1pc Shield without Stops, Standard Shield Ground Tail	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	380-1049-ND	1.98	1.86	SS-7188S-A-PG4-BA
	7	Jack, Unshielded without Stops	8-8	.650 (16.51)	.615 (15.62)	.644 (16.36)	380-1050-ND◆	.93	.87	SS-7188V-A-NF
		Jack, Standard Shield without Stops	8-8	.670 (17.02)	.640 (16.26)	.670 (17.02)	380-1051-ND	2.62	2.46	SS-7188VS-A-NF
	8	Jack, 1pc Shield, 2 Port without Stops	8-8	.815 (20.70)	1.205 (30.61)	.523 (13.28)	380-1044-ND	7.97	7.47	SS-718802S-A-NF
	10	Jack, 1pc Shield, 4 Port	8-8	.815 (20.70)	2.305 (58.55)	.523 (13.28)	380-1045-ND	9.44	8.85	SS-718804S-A-PG4-AC
73	11	Jack, Shielded, 12 Port without Stops	8-8	1.103 (28.02)	3.429 (87.10)	1.004 (25.50)	380-1052-ND	16.80	15.75	SS-73100-046
		Jack, Shielded, 16 Port without Stops	8-8	1.103 (28.02)	4.529 (115.04)	1.004 (25.50)	380-1053-ND	24.00	22.50	SS-73100-047
80	12	Jack, Unshielded, Cable Ready	10-8	1.300 (33.02)	.750 (19.05)	.780 (19.81)	380-1078-ND◆	6.24	5.85	SS-800810SB-SP50-040-250
82	12	Jack, CAT-5e, Unshielded, Cable Ready	8-8	1.073 (27.25)	.619 (15.72)	.654 (16.61)	380-1100-ND◆	5.28	4.95	SS-82000-002
		Jack, CAT-5e, Shielded, Cable Ready	8-8	1.51 (38.35)	.690 (17.53)	.680 (17.27)	380-1101-ND◆	9.02	8.46	SS-82100-001
					ARJ45™ Catagory 7a — RoHS Compliant					
77	13	Jack, CAT-7a, Shielded	8-8	.860 (21.84)	.600 (15.24)	.530 (13.46)	380-1125-ND	12.13	11.37	SS-77100-004

*** Note: Pins without electrical connections may be omitted.** ◆ ***RoHS Compliant***

Modular Connector Plugs

Series	Fig.	Description	Pos. - Contacts	Crimp Tool with Die	Die only	Dimensions - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	Stewart Part No.
					Unshielded Plugs (any die works with all crimp tools used for unshielded plugs)								
30	15	Plug, Handset	4-4	380-1055-ND	380-1059-ND	.525 (13.33)	.300 (7.62)	.260 (6.60)	.485 (12.32)	380-1002-ND	.22	.21	940-SP-3044
		Plug	6-2	380-1056-ND	380-1060-ND	.525 (13.33)	.380 (9.65)	.260 (6.60)	.534 (13.57)	380-1001-ND	.19	.18	940-SP-3026
		Plug	6-4	380-1056-ND	380-1060-ND	.525 (13.33)	.380 (9.65)	.260 (6.60)	.534 (13.57)	380-1003-ND	.22	.21	940-SP-3046
		Plug	6-6	380-1056-ND	380-1060-ND	.525 (13.33)	.260 (6.60)	.260 (6.60)	.534 (13.57)	380-1004-ND	.26	.24	940-SP-3066
		Plug, .038” (.965mm) OD Cable	8-8	380-1057-ND	380-1061-ND	.885 (22.48)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1005-ND	.38	.36	940-SP-3088R
		Plug, .040” (1.02mm) OD Cable	8-8	380-1057-ND	380-1061-ND	.885 (22.48)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1006-ND	.42	.39	940-SP-3088R-A133
		Plug	10-10	380-1058-ND	380-1062-ND	.885 (22.48)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1000-ND	.58	.54	940-SP-301010R
37	15	Plug, CAT-5e	8-8	380-1057-ND	380-1061-ND	.884 (22.46)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1008-ND	.48	.45	943-SP-370808M2-A264
		Plug, CAT-5e	8-8	380-1057-ND	380-1061-ND	.885 (22.48)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1098-ND	.42	.39	SS-37000-002
39	15	Plug, CAT-6, Anti-Snag	8-8	380-1134-ND	380-1131-ND	1.47 (37.34)	.460 (11.68)	.312 (7.92)	—	380-1092-ND	1.12	1.05	SS-39100-008
					Shielded and Specialty Plugs (require special crimp tools and die)								
36	15	Plug	8-8	380-1133-ND‡	380-1135-ND	1.046 (26.57)	.460 (11.68)	.360 (9.14)	—	380-1007-ND	1.09	1.02	940-SP-360808-A108
37	15	Plug, CAT-5e	8-8	380-1133-ND‡	380-1135-ND	.884 (22.46)	.460 (11.68)	.360 (9.14)	—	380-1009-ND	1.34	1.26	943-SP-370808SM2A264
		Plug, CAT-5e	8-8	380-1057-ND	380-1061-ND	.897 (22.78)	.460 (11.68)	.321 (8.15)	—	380-1099-ND	1.02	.96	SS-37200-028
39	15	Plug, CAT-6a	8-8	380-1133-ND‡	380-1130-ND	.884 (22.46)	.460 (11.68)	.312 (7.92)	.622 (15.80)	380-1014-ND	2.08	1.95	SS-39100-002
		Plug, CAT-6	8-8	380-1132-ND	—	1.67 (42.4)	.540 (13.71)	.312 (7.92)	—	380-1093-ND	1.70	1.59	SS-39200-011

‡ Crimp tool only, Die must be purchased separately

Crimp Tools and Die Sets

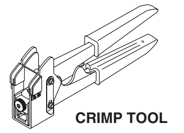

Positions	Digi-Key Part No.	Price Each	Stewart Part No.
	Crimp Tool with Die Set		
4	380-1055-ND	93.00	2990001-01
6	380-1056-ND	93.00	2990002-01
8	380-1057-ND	93.00	2990003-01
8	380-1134-ND	124.00	2990009-01
10	380-1058-ND	93.00	2990007-01
8	380-1132-ND	287.50	2980075-01
8	380-1133-ND‡	230.00	2940231-01

Positions	Digi-Key Part No.	Price Each	Stewart Part No.
	Die Set Modular		
4	380-1059-ND	28.50	2990004-01
6	380-1060-ND	28.50	2990005-01
8	380-1061-ND	28.50	2990006-01
8	380-1131-ND	28.50	2990010-01
10	380-1062-ND	28.50	2990008-01
8	380-1129-ND	210.00	2905029-01
8	380-1130-ND	210.00	2905014-01
8	380-1135-ND	274.00	2906253-01

‡ Crimp tool only, Die must be purchased separately

Stewart Connector

CAT5e and CAT6 Jumpers

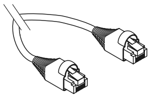

Available Through **Digi-Key®**

Enhanced CAT-5 Cords: Enhanced patch cords built using high performance Stewart 37 Series plugs optimized for consistent, reliable performance in high speed networking applications.

CAT-6 Cords: Patch cords built using high performance Stewart 39 Series plugs which are designed and manufactured to meet or exceed the current EIA/TIA CAT-6 specs.

Description Ft. (Meter)	Digi-Key Part No.	Price Each
	Cat-5 — Enhanced	
15’ (4.572)	380-1072-ND	6.42
	Cat-6	
15’ (4.572)	380-1071-ND	9.98
25’ (7.62)	380-1075-ND	26.72

CUI INC

Modular Components

Fig.	Description	Digi-Key Part No.	Pricing 1	10	50
1	DB9S to RJ45 Jack (8-8)	046-0001-ND*◆	4.13	37.13	165.00
2	DB9P to RJ45 Jack (8-8)	046-0000-ND*◆	4.13	37.13	165.00
1	DB9S to RJ12 Jack (6-6)	046-0003-ND*◆	4.13	37.13	165.00
2	DB9P to RJ12 Jack (6-6)	046-0002-ND*◆	4.13	37.13	165.00
1	DB15S to RJ45 (8-8)	046-0005-ND*◆	4.63	41.63	185.00
2	DB15P to RJ45 (8-8)	046-0004-ND*◆	4.63	41.63	185.00
1	DB25S to RJ12 (6-6)	046-0009-ND*	4.38	39.38	175.00
2	DB25P to RJ12 (6-6)	046-0008-ND*◆	4.38	39.38	175.00
1	DB25S to RJ45 (8-8)	046-0011-ND*◆	4.38	39.38	175.00
2	DB25P to RJ45 (8-8)	046-0010-ND*◆	4.38	39.38	175.00
1	DB15S to RJ12 (6-6)	046-0017-ND*	4.63	41.63	185.00
2	DB15P to RJ12 (6-6)	046-0016-ND*	4.63	41.63	185.00
3	BNC RJ12 Converter (6-6)	048-0000-ND	16.58	149.18	663.00
4	4 Wire TEE Adapter 1M-2F	048-0050-ND	2.75	24.75	110.00
	6 Wire TEE Adapter 1M-2F	048-0051-ND◆	4.05	36.45	162.00
5	6-6 Modular Coupling (crossed) #1 to #6	048-0056-ND	2.28	20.48	91.00
	6-6 Modular Coupling (straight) #1 to #1	048-0103-ND◆	2.28	20.48	91.00
6	6 Wire Wall Plate (6-6)	048-0061-ND	2.70	24.30	108.00
	8 Wire Wall Plate (8-8)	048-0062-ND	3.35	30.15	134.00

* User Configurable ◆ ***RoHS Compliant***

Fig. 1

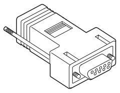

Fig. 2

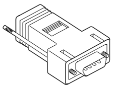

Fig. 3

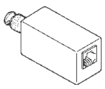

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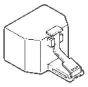

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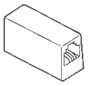

Fig. 6

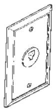

Tyco Electronics Corcom

Authorized Distributor

Filtered Modular Jacks

Jack design and component selection compatible with equipment registered under FCC Part 68, UL Recognized, CSA Certified, U.S. Patent No. 4,695,115, U.S. Patent No. 4,772,224 and a variety of international patents. RJ11 / RJ45 Series, Shielded: The metal shield provides additional protection, and is available with RFI gasket style spring fingers to provide a low impedance ground path across the interface.

Fig. 1

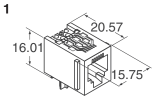

Fig. 2

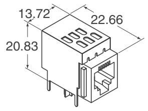

Fig. 3

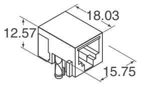

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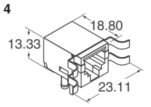

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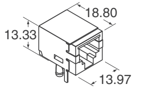

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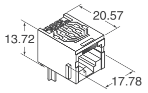

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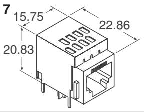

Fig. 8

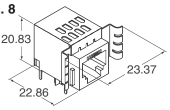

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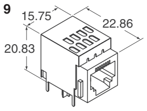

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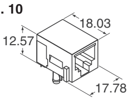

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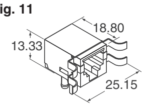

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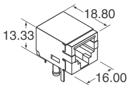

Fig. 13

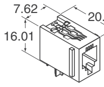

Fig.	Description	Pos.-Contacts	Ferrites	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
RJ11 Series								
1	Unshielded	6-2	Sleeves	CCM9000-ND◆	4.33	3.04	2.54	RJ11-2L-S
	Unshielded	6-4	Sleeves	CCM9001-ND◆	4.86	3.40	2.84	RJ11-4L-S
	Unshielded	6-6	Sleeves	CCM9002-ND◆	5.27	3.67	3.07	RJ11-6L-S
	Unshielded	6-2	Block	CCM9003-ND◆	4.53	3.19	2.65	RJ11-2L-B
	Unshielded	6-4	Block	CCM9004-ND◆	5.45	3.80	3.19	RJ11-4L-B
	Unshielded	6-6	Block	CCM9005-ND◆	5.42	3.80	3.17	RJ11-6L-B
2	Shielded	6-4	Sleeves*	CCM9010-ND	6.31	4.44	3.71	RJ11-4L2-S
	Shielded	6-6	Sleeves*	CCM9011-ND◆	6.82	4.76	3.99	RJ11-6L2-S
	Shielded	6-4	Block*	CCM9012-ND◆	6.79	4.76	3.97	RJ11-4L2-B
	Shielded	6-6	Block*	CCM9013-ND◆	6.79	4.76	3.97	RJ11-6L2-B
3	Unshielded	6-6	Block	CCM1394-ND◆	4.39	3.07	2.58	RJ11-6N-B
	Unshielded	6-6	Sleeves	CCM1395-ND◆	4.91	3.44	2.88	RJ11-6N-S
4	Shielded	6-6	Block	CCM1396-ND◆	5.43	3.79	3.18	RJ11-6N3-B
	Shielded	6-6	Sleeves	CCM1397-ND	5.70	3.97	3.34	RJ11-6N3-S
5	Shielded	6-6	Block	CCM1398-ND◆	5.43	3.79	3.18	RJ11-6N4-B
	Shielded	6-6	Sleeves	CCM1399-ND◆	5.70	3.97	3.34	RJ11-6N4-S

Fig.	Description	Pos.-Contacts	Ferrites	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
RJ45 Series								
6	Unshielded	8-8	Sleeves	CCM9050-ND◆	6.10	4.28	3.57	RJ45-8L-S
	Unshielded	8-8	Block	CCM9052-ND◆	5.69	3.97	3.33	RJ45-8L-B
	Unshielded	8-8	Unfiltered	CCM1755-ND◆	3.68	2.56	2.17	RJ45-8X
7	Shielded	8-8	Sleeves*	CCM9051-ND◆	8.01	5.63	4.72	RJ45-8L2-S
	Shielded	8-8	Block*	CCM9053-ND◆	7.49	5.24	4.38	RJ45-8L2-B
8	Shielded	8-8	Sleeves	CCM1390-ND	27.01	18.88	15.77	RJ45-8LCT1-S
	Shielded	8-8	Block	CCM1391-ND◆	26.85	18.77	15.69	RJ45-8LCT1-B
9	Shielded	8-8	Sleeves	CCM1392-ND	27.18	19.02	15.88	RJ45-8LCT2-S
	Shielded	8-8	Block	CCM1393-ND◆	27.06	18.92	15.80	RJ45-8LCT2-B
10	Unshielded	8-8	Block	CCM1500-ND◆	4.62	3.23	2.69	RJ45-8N-B
	Unshielded	8-8	Sleeves	CCM1501-ND◆	5.25	3.72	3.06	RJ45-8N-S
11	Shielded	8-8	Block	CCM1502-ND◆	5.43	3.79	3.18	RJ45-8N3-B
	Shielded	8-8	Sleeves	CCM1503-ND◆	6.27	4.36	3.64	RJ45-8N3-S
12	Shielded	8-8	Block	CCM1504-ND◆	5.43	3.79	3.18	RJ45-8N4-B
	Shielded	8-8	Sleeves	CCM1505-ND◆	6.27	4.36	3.64	RJ45-8N4-S
RJH Series — RoHS Compliant								
13	Unshielded	4-4	Block	CCM9060-ND	5.26	3.68	3.08	RJH-4L-B

* Board Ground (pins only) ***Note: LCT Version incorporates 82Pf capacitors.*** ◆ ***RoHS Compliant***

FCI

Modular Jacks

RoHS COMPLIANT

Fig. 1

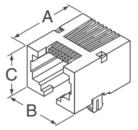

Fig. 2

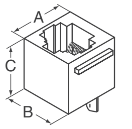

Fig. 3

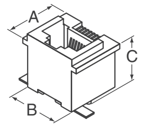

Fig. 4

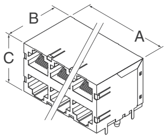

Fig.	Positions-Contacts	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Horizontal Jack — PC Board Mount									
1	4-4	0.480 (12.20)	0.485 (12.32)	0.825 (20.95)	609-1048-ND	.80	.39	.33	66010-001LF
	4-4	0.810 (20.57)	0.540 (13.72)	0.590 (14.99)	609-1050-ND	1.66	.73	.63	68897-001LF
	4-4	0.709 (18.00)	0.441 (11.20)	0.453 (11.50)	609-1054-ND	1.32	.72	.62	87180-044LF
	6-2	0.709 (18.00)	0.520 (13.20)	0.453 (11.50)	609-1055-ND	.88	.39	.32	87180-062LF
	6-2	0.728 (18.50)	0.539 (13.70)	0.465 (11.80)	609-1068-ND*	1.44	.80	.69	61885-0621LF
	6-4	0.709 (18.00)	0.520 (13.20)	0.453 (11.50)	609-1056-ND	1.32	.72	.62	87180-064LF
	6-4	0.811 (20.60)	0.619 (15.72)	0.591 (15.00)	609-1060-ND	.80	.36	.31	88400-064LF
	6-6	0.480 (12.20)	0.485 (12.32)	0.825 (20.95)	609-1049-ND	.95	.49	.42	66011-002LF
	6-6	0.709 (18.00)	0.520 (13.20)	0.453 (11.50)	609-1057-ND	1.41	.78	.67	87180-066LF
	6-6	0.811 (20.60)	0.619 (15.72)	0.591 (15.00)	609-1061-ND	.83	.41	.35	88400-066LF
	8-8	0.698 (17.74)	0.602 (15.30)	0.500 (12.70)	609-1046-ND	.79	.38	.33	54602-908LF
	8-8	0.709 (18.00)	0.600 (15.24)	0.453 (11.50)	609-1058-ND	1.51	.85	.73	87180-088LF
	8-8	0.723 (18.36)	0.614 (15.60)	0.460 (11.68)	609-1069-ND*	4.36	2.71	2.45	72231-0881LF
	10-10	0.698 (17.74)	0.602 (15.30)	0.500 (12.70)	609-1047-ND	.86	.43	.36	54602-910LF
Vertical Jack — PC Board Mount									
2	4-4	0.625 (15.87)	0.540 (13.72)	0.615 (15.62)	609-1051-ND	1.32	.72	.62	69253-001LF
	4-4	0.625 (15.87)	0.540 (13.72)	0.615 (15.62)	609-1062-ND	1.32	.72	.62	90511-001LF
	4-4	0.625 (15.87)	0.540 (13.72)	0.615 (15.62)	609-1067-ND	.65	.33	.27	61835-0441LF
	6-4	0.625 (15.87)	0.620 (15.75)	0.615 (15.62)	609-1064-ND	.73	.34	.29	90512-003LF
	6-6	0.625 (15.87)	0.620 (15.75)	0.615 (15.62)	609-1052-ND	1.44	.80	.69	69254-001LF
	6-6	0.625 (15.87)	0.620 (15.75)	0.615 (15.62)	609-1063-ND	1.41	.78	.67	90512-001LF
	8-8	0.625 (15.87)	0.700 (17.78)	0.615 (15.62)	609-1053-ND	1.64	.87	.74	69255-001LF
	8-8	0.625 (15.87)	0.700 (17.78)	0.615 (15.62)	609-1065-ND	1.89	1.09	.94	90598-001LF
	8-8	0.665 (16.90)	0.626 (15.90)	0.620 (15.82)	609-1072-ND*	2.15	1.16	1.00	94152-088LF
Vertical Jack — SMD									
3	4-4	0.594 (15.09)	0.570 (14.47)	0.641 (16.28)	609-1070-1-ND	1.91	1.05	.89	87543-4111LF
	4-4	0.594 (15.09)	0.570 (14.47)	0.641 (16.28)	609-1070-2-ND†	275.58/350			87543-4111LF
	6-6	0.594 (15.09)	0.651 (16.53)	0.641 (16.28)	609-1071-1-ND	2.20	1.22	1.02	87545-4111LF
	6-6	0.594 (15.09)	0.651 (16.53)	0.641 (16.28)	609-1071-2-ND†	1156.26/1,400			87545-4111LF
	8-8	0.594 (15.09)	0.731 (18.57)	0.641 (16.28)	609-1059-1-ND	1.94	1.11	.96	87547-4111LF
	8-8	0.594 (15.09)	0.731 (18.57)	0.641 (16.28)	609-1059-2-ND†	309.96/350			87547-4111LF
Horizontal Multiport Jack — PC Board Mount									
4	8-8	3.429 (87.10)	1.110 (28.20)	0.992 (25.20)	609-2071-ND	9.15	6.33	5.60	10021246-116LF
	8-8	4.531 (115.10)	1.110 (28.20)	0.992 (25.20)	609-2072-ND	14.27	9.70	8.92	10021246-118LF
	8-8	3.429 (87.10)	1.110 (28.20)	0.992 (25.20)	609-2075-ND	8.32	5.54	4.97	10021246-216LF
	8-8	4.531 (115.10)	1.110 (28.20)	0.992 (25.20)	609-2076-ND	9.96	6.90	6.10	10021246-218LF
Vertical Multiport Jack — PC Board Mount									
—	2x4-4,6-6	—	—	—	609-1066-ND	3.14	1.86	1.65	FT658160LF

* Shielded † Tape and Reel Pricing

Pulse® A TECHNITROL COMPANY Excelsus®

DSL (CPE) Filters

Fig. 1 — Z-230PJ Economical Single-Line DSL Filter

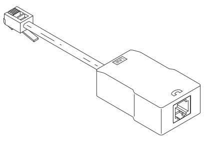

Fig. 2 — Z-230TJ Economical Single-Line Phone/DSL Filter

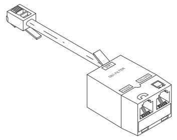

Fig. 3 — ANSI Single-Line DSL Filter

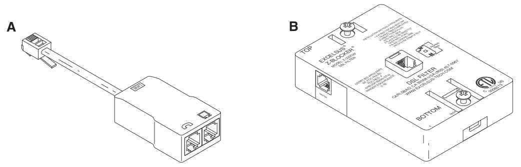

These customer premises equipment (CPE) filters are designed to expedite the service delivery and improve the performance of digital subscriber line (DSL) and home phoneline network (HPN) services over plain old telephone service (POTS). Its filter design electronically isolates the high-speed DSL and HPN data streams from the voice-band POTS to provide premium quality and optimal DSL and HPN data rates.

Z-230PJ Economical Single-Line DSL Filter:

• Filters one or more phone devices sharing a single jack • Compact in-line design - plugs into any standard phone jack • Blocks and isolates DSL/HPN from phone equipment • Supports G. lite, G.dmt ADSL, V.90, Caller ID and metallic-loop testing • Compliant and listed with FCC, UL, CE, CSA and T1E1

Z-230TJ Economical Single-Line Phone/DSL Filter:

• Provides separate jacks for phone and DSL/HPN • Compact in-line design- plugs into any standard phone jack • Filters one or more phone devices sharing a single jack • Blocks and isolates DSL/HPN from phone equipment • Supports G. lite, G.dmt, ADSL, V.90, Caller ID and metallic-loop testing • Compliant and listed with FCC, UL, CE, CSA and T1E1

ANSI Single-Line DSL Filter:

• Meets ANSI T1.421 for excellent voice quality and performance • Filters one or more phone devices sharing a single jack • Blocks and isolates DSL/HPN from phone equipment • Ideal for blocking RF interference from DSL/HPN for uninterrupted data streaming • Supports G. lite, G.dmt, ADSL, V.90, Caller ID and metallic-loop testing • Compliant and listed with FCC, UL, CE, and CSA • Compatible with ADSL, ADSL2, ADSL2+, ADSL2++, ADSLQ+ (analog mode) and VDSL • Compact in-line design-plugs into any standard phone jack • Wall-mount design-snaps over existing wall outlet

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Pulse Part No.
1	Single In-Line DSL Filter	553-1183-ND◆	2.37	1.40	1.26	Z-230PJ
2	Single In-Line Phone/DSL Filter	553-1426-ND◆	4.29	2.65	2.48	Z-300TJ
3A	ANSI In-Line Single Filter	553-1185-ND◆	3.97	2.35	2.11	Z-330P2J
3B	ANSI Wall-Mount Single Filter	553-1186-ND	6.54	4.03	3.77	Z-330CW

◆ ***RoHS Compliant***

PULSEJACK™ LAN/ Filtered Connectors
Ethernet, PoE (Power over Ethernet), Gigabit, USB Options

A

Pulse offers a broad selection of filtered connectors. Each Pulsejack platform is designed to house a range of magnetic configurations and other internal components (common mode termination) with four 75ohm resistors and HV Cap, chip-side pin outs, shield options, USB ports and LED options. **Features:** • Meets or exceeds IEEE 802.3 and ANSI X3.263 • 1500 Vrms isolation • Self-contained termination saves PCB space • Patented InterLock Base construction for high reliability

Fig. 1
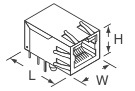

Fig. 2
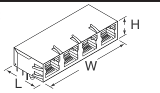

Fig. 3
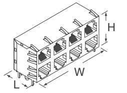

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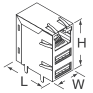

Figure Note: General representation of part, see specifications for exact number of ports.

Fig.	Number of Rows X Ports(7)	Tab Latch Up/Down(1)	Shield EMI Tabs(5)	Auto MDIX	LEDs L-R(6,8)	Other(4) Com-ponents	Comm.(15) Pins per Port (PCB Side)	Total(16) PCB Pins per Port	Configuration(2)		Turns Ratio(3)		Package L x W x H (mm)	Digi-Key Part No.	Price Each			Pulse Part No.
									TX	RX	TX	RX			1	10	100	
10/100BASE-TX — RoHS Compliant																		
1	1X1	Down	Yes	Yes	G-G	CMT	7	12	T,C	T,C	1CT:1.414	1CT:1	21.59 x 16.26 x 13.84	553-1348-ND	6.54	4.48	3.56	J0018D21ENL
	1X1	Down	Yes	Yes	G-Y	CMT(12)	7	12	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1345-ND	4.42	2.87	2.20	J00-0065NL
	1X1	Down	Yes	Yes	G-Y	—(13)	8	12	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1346-ND	5.58	3.82	3.04	J0006D21BNL
	1X1	Down	Yes	Yes	—	CMT(13)	7	8	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1347-ND	5.52	3.78	3.01	J0011D21NL
	1X1	Down	Yes	—	G-Y	CMT(13)	8	12	T,C,S	C,T	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1349-ND	6.72	4.60	3.66	J0026D21BNL
	1X1	Up	Yes	Yes	Y-G	CMT	7	12	T,C	T,C	1CT:1	1CT:1	25.4 x 16.26 x 13.51	553-1351-ND	6.48	4.44	3.53	J1012F21CNL
	1X1	Up	Yes	—	Y-G	CMT	8	12	T,C,S	C,T	1CT:1	1CT:1	25.4 x 16.26 x 13.51	553-1352-ND	7.47	5.12	4.07	J1026F21CNL
	1X1	Up	—	Yes	G-Y	CMT	8	12	T,C	T,C	1CT:1	1CT:1	25.4 x 16.26 x 13.51	553-1350-ND	6.48	4.44	3.53	J1011F01PNL
10/100BASE-TX Multiport — RoHS Compliant																		
2	1X2	Down	Yes	Yes	G-Y	CMT	7	12	T,C	T,C	1CT:1	1CT:1	21.36 x 31.18 x 13.61	553-1353-ND	9.52	6.97	5.77	J8064D628ANL
	1X4	Down	Yes	Yes	G-Y	CMT	7	12	T,C	T,C	1CT:1	1CT:1	21.36 x 59.12 x 13.61	553-1354-ND	17.06	13.06	11.06	J8064D648ANL
	1X6	Up	Yes	Yes	—	—	8	10	C,T	C,T	1CT:1	1CT:1	25.40 x 87.33 x 13.84	553-1466-ND	32.43	26.61	23.29	JG0-0045NL
10/100BASE-TX Dual Row Multiport — RoHS Compliant																		
3	2X2	Both	Yes	Yes	G-Y-G/Y	CMT	7	11	T,C	T,C	1CT:1CT	1CT:1CT	32.00 x 31.50 x 25.52	553-1248-ND	19.07	14.60	12.36	J20-0013
	2X2	Both	Yes	Yes	G/Y-G/Y	CMT	7	11	T,C	T,C	1CT:1CT	1CT:1CT	32.00 x 31.50 x 25.52	553-1463-ND	17.51	13.54	13.14	J20-0013NL
	2X4	Both	Yes	Yes	G/Y-G/Y	CMT	7	11	T,C	T,C	1CT:1CT	1CT:1CT	32.00 x 59.44 x 25.52	553-1249-ND	34.43	27.39	23.60	J20-0014
	2X4	Both	Yes	Yes	G/Y-G/Y	CMT	7	11	T,C	T,C	1CT:1CT	1CT:1CT	32.00 x 59.44 x 25.52	553-1464-ND	31.86	25.97	22.31	J20-0014NL
Power over Ethernet (PoE) 10/100Base-TX — RoHS Compliant																		
1	1X1	Up	Yes	Yes	Y/G-G	CMT(9)	9	13	C,T	C,T	1CT:1	1CT:1	33.02 x 16.79 x 13.61	553-1366-ND	10.71	7.84	6.49	JK0-0020NL
	1X1	Up	Yes	Yes	Y/G-G	CMT(10)	9	13	C,T	C,T	1CT:1	1CT:1	33.02 x 16.79 x 13.61	553-1367-ND	8.61	5.90	4.69	JK0-0025NL
Power over Ethernet (PoE) 10/100Base-TX Multiport — RoHS Compliant																		
2	1X2	Up	Yes	Yes	Y/G-G	CMT(10)	8	12	C,T	C,T	1CT:1	1CT:1	25.40 x 31.19 x 13.84	553-1361-ND	13.99	10.24	8.48	JG0-0031NL
	1X4	Up	Yes	Yes	Y/G-G	CMT(10)	8	12	C,T	C,T	1CT:1	1CT:1	25.41 x 59.13 x 13.60	553-1362-ND	25.05	19.18	16.24	JG0-0032NL
	1X8	Up	Yes	Yes	G-G(13)	—	8	14	C,T	C,T	1CT:1	1CT:1	25.40 x 115.27 x 13.84	553-1467-ND	43.30	35.33	31.34	JG0-0051NL
Gigabit (10/100/1000BASE-TX)																		
1	1X1	Up	Yes	Yes	G-G	Gigabit(11)	12	16	Gigabit	Gigabit	1CT:1	1CT:1	33.02 x 16.79 x 13.87	553-1363-ND◆	8.61	5.90	4.69	JK0-0014NL
	1X1	Up	Yes	Yes	Y/G-G	Gigabit(11)	12	16	Gigabit	Gigabit	1CT:1	1CT:1	33.02 x 16.79 x 13.87	553-1364-ND◆	8.61	5.90	4.69	JK0-0016NL
	1X1	Up	Yes	Yes	—	Gigabit(11)	12	12	Gigabit	Gigabit	1CT:1	1CT:1	33.02 x 16.79 x 13.87	553-1258-ND	7.88	5.77	4.78	JK0-0017
	1X1	Up	Yes	Yes	—	Gigabit(11)	12	12	Gigabit	Gigabit	1CT:1	1CT:1	33.02 x 16.79 x 13.87	553-1365-ND◆	8.28	5.67	4.51	JK0-0017NL
	1X1	Up	Yes	Yes	—	Gigabit(11,14)	12	14	Gigabit	Gigabit	1CT:1	1CT:1	33.02 x 16.79 x 13.87	553-1470-ND◆	7.18	5.31	4.74	JK0-0133NL
Gigabit (10/100/1000BASE-T) Multiport — RoHS Compliant																		
2	1X2	Up	Yes	Yes	G-G(14)	Gigabit(11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 31.19 x 13.84	553-1357-ND	13.99	10.24	8.48	JG0-0023NL
	1X2	Up	Yes	Yes	G/Y-G	Gigabit(11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 31.46 x 13.84	553-1469-ND	12.83	9.87	9.41	JG0-0129NL
	1X4	Up	Yes	Yes	G-G(14)	Gigabit(11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 59.39 x 13.84	553-1358-ND	25.05	19.18	16.24	JG0-0025NL
	1X4	Up	Yes	Yes	G/A-G/A	Gigabit(11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 59.39 x 13.84	553-1468-ND	22.18	18.08	15.53	JG0-0098NL
	1X6	Up	Yes	Yes	G-G	Gigabit(11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 87.33 x 13.84	553-1359-ND	34.14	27.16	23.40	JG0-0027NL
Gigabit (10/100/1000BASE-T) Dual Row Multiport — RoHS Compliant																		
3	2X1	Both	Yes	Yes	G/Y-G/Y	Gigabit(11)	10	12	Gigabit	Gigabit	1CT:1	1CT:1	31.65 x 17.53 x 25.52	553-1465-ND	14.00	10.77	10.27	JC0-0063NL
	2X6	Both	Yes	Yes	—	Gigabit(11)	10	10	Gigabit	Gigabit	1CT:1	1CT:1	28.95 x 87.38 x 25.52	553-1307-ND	59.64	49.41	45.44	JC0-0132
Combo 10/100BASE-TX / Dual USB 2.0 Type A Female Ports — RoHS Compliant																		
4	1X1 w/2USB	Up	—	—	G-Y(6 (R))	CMT	—	—	T,C,S	C,T	1CT:1	1CT:1	27.69 x 19.08 x 31.45	553-1369-ND	9.24	6.33	5.03	JW0-0009NL
	1X1 w/2USB	Up	Yes	—	G/O-Y	CMT	—	—	T,C,S	C,T	1CT:1	1CT:1	26.09 x 17.09 x 29.72	553-1370-ND	10.23	7.01	5.57	JY0-0016NL
	1X1 w/2USB	Up	—	Yes	G/Y-G	Gigabit	—	—	Gigabit	Gigabit	1CT:1	1CT:1	27.43 x 18.82 x 31.00	553-1368-ND	9.60	7.02	5.82	JW0-0006NL

◆ ***RoHS Compliant***

KEY (1) Tab Down = thumb lock facing down to PCB; Tab Up = thumb lock facing away from PCB
(2) Magnetics = Chip (PHY) to Cable (Media) side: T= Transformer, C = Common Mode Choke, S = Shunt Inductor
(3) Turns Ratio = Chip (PHY) to Cable (Media) side
(4) CMT (Common Mode Termination) with HV Cap within the connector; no extra PCB real estate required
(5) EMI Tabs = On the outside face of the shield for connecting to a front panel
(6) LEDs require external 5V source and 250Ω external resistors ("R") = 250Ω internal resistor built-in
(7) Note: For example, 1X4 = 1 row/4 columns or a 2X4 = 2 rows/4 columns
(8) LEDs: L-R = Left - Right : G = green, Y = yellow; "—" = none; Bicolor : G/O = Green/Orange, Y/G = Yellow/Green, G/A = Green/Amber, G/Y = Green/Yellow
(9) Includes ESD overvoltage protection diodes
(10) Provides typically 2kV voltage isolation and are compliant to IEEE 802.3af PoE standard
(11) Includes Gigabit compatible magnetics
(12) Built-In BST Circuit = Capacitor resistor termination circuit
(13) Different electrical connection (See datasheet for more information)
(14) PoE = Power over Ethernet compatible product, compliant to IEEE 802.3af standard, providing minimum 1.5kV isolation
(15) Number of PCB connections required for RJ-45 connector communication to PHY/IC Chip
(16) Total number of PCB pins for PCB layout, which include LED option

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Midcom WÜRTH ELEKTRONIK

WE-LAN Series — RJ45 Connectors with Integrated 10/100 Base Tx Magnetics

RoHS COMPLIANT Pb

Fig. 1
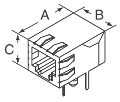

Fig. 2
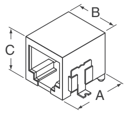

Fig. 3
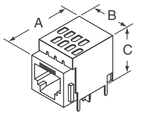

Fig. 4
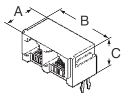

Fig. 5
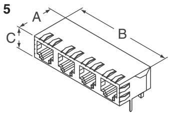

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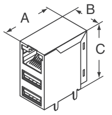

Features: • RJ45 connector with Integrated Transformer/Common Mode Choke • Complies with IEEE 802.3 • Internal magnetics 100% electrically tested for HiPot and functionality • Suitable for CAT5 and 6 Fast Ethernet cable or better UTP • High performance for maximum EMI suppression • Reduces the required board space, component count, and manufacturing cost per port • Eliminates the need of external magnetics between the RJ45 and Transceiver IC **Applications:** • ADSL Modems • Embedded PC • LAN Network applications • Hub • Router • Network Switches **Specifications:** • Inductance: 350µH (0.1 Vrms @ 100kHz with 8mADC) • Isolation Voltage for 1 minute: 1500VAC • Turns Ratio: 1CT:1CT (±2%) • Maximum Insertion Loss: -1.0dB maximum (1-100MHz) • Minimum Return Loss: -18dB minimum (1-30MHz), -16dB minimum (30-45MHz), -14dB minimum (45-60MHz), -12dB minimum (60-80MHz) • Minimum Crosstalk: -35dB minimum (1-100MHz) • Minimum Common Mode Rejection: -35dB minimum (1-100MHz)

Fig.	Description	Configuration	Operating Temperature °C	Dimensions (mm)			Digi-Key Part No.	Price Each			Wurth Part No.
				A	B	C		1	25	100	
1	With Shielding Tabs	1x1 Through Hole	0 ~ 70	21.84	15.88	13.36	732-1649-ND	9.66	8.05	7.13	7499011002
	Yellow and Green LED		0 ~ 70	25.30	16.20	13.50	732-1650-ND	9.66	8.05	7.13	7499010121
	Yellow and Green LED with Shielding Tabs		-40 ~ 85	21.84	15.88	13.36	732-1654-ND	16.80	14.00	12.40	7499211121
2	With Shielding Tabs	1x1 SMD	0 ~ 70	21.60	15.88	13.55	732-1646-ND	10.50	8.75	7.75	7498011002
	Yellow and Green LED with Shielding Tabs		0 ~ 70	21.60	15.88	13.55	732-1647-ND	10.50	8.75	7.75	7498011121
	Yellow and Green LED		-40 ~ 85	21.84	15.65	11.30	732-1648-ND	10.50	8.75	7.75	7498011122
3	Vertical Yellow and Green LED	1x1 Through Hole	0 ~ 70	21.84	15.95	16.90	732-1651-ND	9.66	8.05	7.13	7499010122
4	Yellow and Green LED with Shielding Tabs	1x2 Through Hole	0 ~ 70	21.59	31.24	14.00	732-1653-ND	16.38	13.65	12.09	7499021121
5	Yellow and Green LED with Shielding Tabs	1x4 Through Hole	0 ~ 70	21.72	59.31	13.74	732-1652-ND	35.70	29.75	26.35	7499031211
6	Yellow and Green LED with 2 USB	1x1 Through Hole	0 ~ 70	27.68	19.08	31.45	732-1655-ND	14.28	11.90	10.54	7497010211

HIROSE ELECTRIC CO.,LTD.

Fiber Optics

Adapters - Split Sleeve

Fig. 1

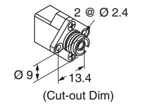

Fig. 2

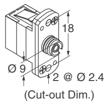

Fig. 3

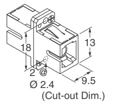

Fig. 4

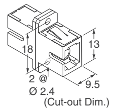

Fig. 5

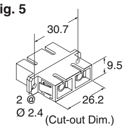

Fig. 6

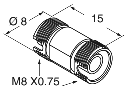

Fig. 7

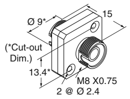

Fig.	Description	External Color	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	SC Hybrid SC/FC, Angled	—	H11437-ND	15.15	14.65	13.64	HSCJ-HRFCJ-B(40)
2	SC Hybrid SC/FC, Straight	—	H11438-ND	16.12	15.17	13.75	HSCJ-HRFCJ-C(40)
3	Panel Mount, Die Cast, Zirconia	—	H2495-ND	14.04	13.22	11.98	HSC-A2-D1
4	Panel Mount, Plastic, Zirconia	Blue	H2496-ND	7.25	6.14	5.17	HSC-A3-D1(02)
5	F-type, Zirconia	Blue	H2497-ND	16.32	15.36	13.92	HSCF-2A-D(P)
6	Non-Flange, Phosphor Bronze	—	H11439-ND	12.84	11.88	10.66	HRFC-A2-SF(41)
7	Cost-Effective, Phosphor Bronze	—	H11440-ND	10.58	9.79	8.79	HRFC-PA11-G1(40)

MU Connectors and Adapters

Fig. 1

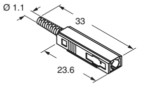

Fig. 2

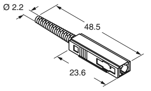

Fig. 3

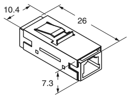

Fig. 4

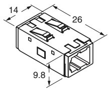

Fig.	Description	Boot Color	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	Simplex Plug for 0.9 Buffered Fiber	Blue	H2500-ND	7.10	6.01	5.06	HMUA-P1-H1
2	Simplex Plug for 2 Cable	Blue	H2501-ND	7.10	6.01	5.06	HMUA-P2-H1
3	Simplex Patch Panel Mount Adapter	—	H2502-ND◆	13.89	13.08	11.85	HMUA-A-3
4	Duplex Patch Panel Mount Adapter	—	H2503-ND	15.35	14.45	13.10	HMUA-2A-3

◆ *RoHS Compliant*

Ferrule

Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
0.125	H2514-ND	7.46	6.32	5.31	HMUA-F3-A125
0.1255	H2515-ND	7.54	6.38	5.37	HMUA-F3-A1255

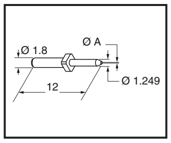

OMRON Optical Communication Devices

Omron has achieved the worlds smallest optical device by combining Omron's Micro Lens Array with thin film filters in a proprietary structure. This minimizes costs by reducing the number of internal parts. Omron's optical switches (1 x 2 and 2 x 2) use a low power consumption with a latching function. The numbers of components are reduced using a complex prism and are able to accommodate SC type fiber optic connectors. Applications include fault response, maintenance, (OXC) Optical Cross Connect Circuit, (OADM) Optical Add/Drop Multiplex Circuit.

Omron's 4 channel and 8 channel Mux and Demux devices are SC connector compatible for transceiver and transponder applications. Using Omron's proprietary Micro Lens Array structure makes these the worlds smallest and most cost effective Mux/Demuxs available. Use for CWDM, LX4, B-PON, E-PON, G-PON and (OADM) Optical Add/Drop Multiplex Circuit.

Fig. 1

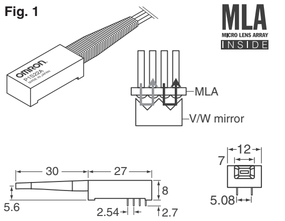

Fig. 2

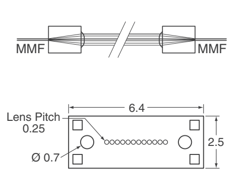

Fig. 3

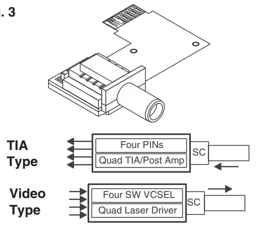

Fig.	Description	Digi-Key Part No.	Price Each	Omron Part No.
1	Fiber Optic Switch, 1 x 2 with SC Connector	Z2220-ND◆	394.50	P1S12B-LD-SC
	Fiber Optic Switch, 1 x 2 with SC Connector	Z2221-ND◆	394.50	P1S12B-D-SC
	Fiber Optic Switch, 2 x 2 with SC Connector	Z2222-ND◆	496.50	P1S22B-LD-SC
	Fiber Optic Switch, 2 x 2 with SC Connector	Z2223-ND◆	496.50	P1S22B-D-SC
	Fiber Optic 4 Channel Demux, 1511nm Wavelength, SC Connector	Z2210-ND◆	655.50	P1X4A-DX1511S20-SC
	Fiber Optic 4 Channel Mux, 1511nm Wavelength, SC Connector	Z2211-ND◆	655.50	P1X4A-MX1511S20-SC
	Fiber Optic 8 Channel Demux, 1471nm Wavelength, SC Connector	Z2212-ND◆	1251.00	P1X8A-DX1471S20-SC
	Fiber Optic 8 Channel Mux, 1471nm Wavelength, SC Connector	Z2213-ND◆	1251.00	P1X8A-MX1471S20-SC
2	Collimator Flat Lens Array, 1 x 12, AirGap 1.5mm	Z2214-ND◆	34.50	P1L12A-C1
	Collimator Flat Lens Array, 1 x 12, AirGap 2.5mm	Z2215-ND◆	34.50	P1L12A-C2
–	Focuser Flat Lens Array, 1 x 12, V~L= 0.3mm, L~F=0.3mm	Z2216-ND◆	34.50	P1L12A-F1
	Focuser Flat Lens Array, 1 x 12, VCSEL~Lens= 0.2mm	Z2217-ND◆	34.50	P1L12A-F2
	Right Angle Focuser Flat Lens Array, 1 x 12, V~L=0.3mm, L~F=0.5mm	Z2219-ND◆	51.00	P1L12C-F1
	Right Angle Focuser Flat Lens Array, 1 x 12, F~L=0.4mm	Z2218-ND◆	51.00	P1L12C-F2
3	Fiber Optic 4 Channel CWDM High Speed ROSA, Video Type	Z2548-ND◆	252.44	P1RX4A-SX4-V-01
	Fiber Optic 4 Channel CWDM High Speed ROSA, TIA Type	Z2547-ND	478.89	P1RX4A-LX4-TR-02
	Fiber Optic 4 Channel CWDM High Speed TOSA, Video Type	Z2549-ND◆	292.53	P1TX4A-SX4-V-01

◆ *RoHS Compliant*

Tyco Electronics AMP Fiber Optics OPTIMATE® DNP (Dry Non-Polish) Connectors

Authorized Distributor

Dimensions in mm

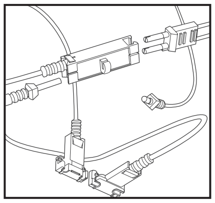

Optical Characteristics: • Insertion Loss: 2dB • Ref.: FOTP 34 Method C **Environmental Characteristics:** • Temperature Range: -40°C ~ 60°C **Mechanical Characteristics:** • Insertion Force: 13.34N [3 lb.] (plug to receptacle) • Cable retention plug: 8.89N [12 lb.] **Materials:** • Retention Clip: Copper alloy, plated • Splice: Copper alloy, plated • Connectors: Thermoplastic

Fig. 1

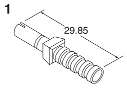

Fig. 2

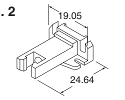

Fig. 3

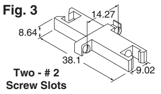

Fig. 4

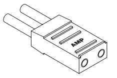

Fig. 5

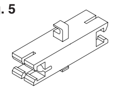

Fig. 6

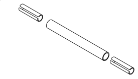

Fig.	Description	Digi-Key Part No.	Pricing 1	25	AMP Part No.
1	Single Position Plug Assembly	A1703-ND◆	.94	18.28	228087-1
2	Single Position Device Mounts	A1705-ND◆	.96	20.77	228043-1
3	Single Position Bulkhead Receptacle	A1707-ND◆	1.69	36.56	228042-1
4	Dual Position Plug Assembly	A20128-ND◆	2.39	51.75	228088-1
5	Dual Position Bulkhead Receptacle	A20129-ND◆	1.74	37.69	228045-1
6	Plastic Fiber Splice and Retention Clip	A20131-ND◆	.23	4.07	228046-1

◆ *RoHS Compliant*

Description	Digi-Key Part No.	Pricing 1	5	AMP Part No.
Hot Knife, Plastic Fiber	A99100-ND	63.35	271.50	228085-1
Single Position Plastic Cutting Fixture	A99102-ND◆	87.01	372.90	228837-1

◆ *RoHS Compliant*

Note: X in Part No. = Meter Per Roll FIBER OPTIC CABLE (O.D. = .089)

Digi-Key Part No.	Price (Meter) 5	10	15	25	50	100
A1700-X-ND	11.37	21.11	30.69	48.72	81.20	146.16

LightCrimp PLUS Connectors

No Epoxy / No Polish (NENP)

RoHS COMPLIANT

Features: • Epoxyless • Pre-Polished • Mates with standard couplers, adapters and adapter plates • Meets TIA/EIA 568-B.3 • Temperature Range: -10°C ~ 60°C (Tested to -40°C ~ 75°C)

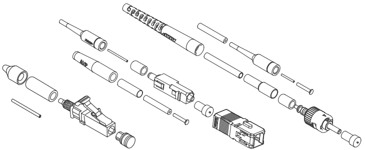
LC Style (Simplex Shown) SC Style (Simplex Shown) ST Style

Connector Type	Fiber Type	Housing Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
LC Style						
Simplex	Singlemode	Blue	A36314-ND	24.75	22.00	6754482-1
	XG 50/125 µm Multimode	Gray	A36315-ND	19.13	17.00	6754483-3
	62.5/125 µm Multimode	Beige	A36316-ND	19.13	17.00	6754483-1
Duplex	XG 50/125µm Multimode	Gray	A36317-ND	38.25	34.00	6754485-3
	62.5/125 µm Multimode	Beige	A36318-ND	38.25	34.00	6754485-1
SC Style						
Simplex	Singlemode	Blue	A36319-ND	24.75	22.00	6693276-1
	XG 50/125 µm Multimode	Gray	A36320-ND	15.75	14.00	6588291-1
	62.5/125 µm Multimode	Beige	A36321-ND	15.75	14.00	5492643-1
Duplex	XG 50/125 µm Multimode	Gray	A36322-ND	31.50	28.00	6588292-1
	62.5/125 µm Multimode	Beige	A36323-ND	31.50	28.00	6278009-1
ST Style						
ST	Singlemode	Metallic	A97948-ND ***NEW!***	24.75	22.00	1828953-3
	50/125 µm Multimode	Metallic	A36324-ND	14.63	13.00	6278082-1
	62.5/125 µm Multimode	Metallic	A36373-ND	14.63	13.00	5492642-1

LightCrimp PLUS Kits, Tools and Accessories

Description	Digi-Key Part No.	Price Each	AMP Part No.
LightCrimp PLUS Termination Kits			
Universal (LC, SC and ST)	A36344-ND	2703.68	1278118-5
LC	A36346-ND	1687.20	1754845-2
SC	A36345-ND	1779.23	1278022-2
ST	A36347-ND	1761.45	492697-2
Upgrade LC	A36348-ND	94.34	1754847-2
Upgrade SC	A36349-ND	180.05	1754847-3
Upgrade ST	A36350-ND	136.67	1754847-4
Cable/Buffer Holder			
LightCrimp PLUS LC	A36355-ND	9.00	1754138-1
LightCrimp PLUS SC	A36363-ND	9.00	1278023-1
Die Sets and Hand Tools			
LightCrimp Termination Handle	A99135-ND ***NEW!***	89.76	2064431-1
LC Type and AMP SC/FC Type, Use with 2064431-1 Hand Tool	A36353-ND	224.21	1588175-1
LightCrimp PLUS LC, Use with 2064431-1 Hand Tool	A36354-ND	111.80	1754136-1
LightCrimp PLUS SC, Use with 2064431-1 Hand Tool	A36361-ND	197.51	492783-1
Pro-Crimper III Fiber Optic Hand Tool	A36400-ND	77.00	58532-1
LightCrimp PLUS and LightCrimp ST Die Set, Use with 58532-1 Hand Tool	A97957-ND ***NEW!***	154.26	492622-1
Kevlar Shears	A36351-ND	34.07	1278637-1
Strip Tool, Fiber Combination	A36352-ND	97.31	1278947-1
Micro-Strip Stripper with .008 Red Blades	A98550-ND ***NEW!***	74.61	492109-2
Hand Held Precision Cleaver	A36360-ND	778.50	1871696-1
Cable Stripper, Optimate	A36362-ND	29.97	501198-1

LightCrimp XTC Connectors

No Epoxy / Polish (NEP)

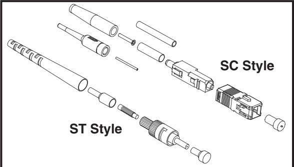

Features:
• Epoxyless • Singlemode or multimode • Just crimp it on the fiber • 2-minute termination • Pre-radiused PC finish • Body Material: Epoxyless aluminum; Epoxy polymer • Coupling Nut Material: Multimode epoxyless polymer; Singlemode epoxyless die cast; Epoxy - die cast zinc • Storage Temperature Range: -40°C ~ 85°C

Fiber Size (µm)	Mode Type	Ferrule Material	Insertion Loss dB, Average	Operating Temp. Range (°C)	Durability Cycles, <.20 (dB) Change	Digi-Key Part No.	Price Each 1	10	AMP Part No.
ST Style Connectors									
125	Single	Ceramic	0.2	-40 ~ 65	1000	A20103-ND	30.26	26.90	504000-1
ST Style Connectors — RoHS Compliant									
125	Multi	Plastic	0.4	-40 ~ 65	500	A32610-ND	7.97	7.08	5492168-1
125	Multi	Stainless Steel	0.4	-10 ~ 65	500	A32611-ND	10.26	9.12	5504034-1
125	Single	Ceramic	0.2	-40 ~ 65	500	A97945-ND ***NEW!***	24.89	22.12	5504000-1
125	Multi	Ceramic	0.4	-40 ~ 65	1000	A33708-ND	12.44	11.06	5504001-1
NEW! SC Style Simplex Connectors — RoHS Compliant NEW!									
125	Multi	Ceramic	0.4	-40 ~ 65	500	A97946-ND	14.36	12.76	5503692-1
NEW! SC Style Duplex Connectors — RoHS Compliant NEW!									
125	Multi	Ceramic	0.4	-40 ~ 65	500	A97947-ND	29.90	26.58	5503693-1

LightCrimp Kits and Accessories

Polishing (Lapping) Film Packets:
Polishing film sheets are used with polishing bushings for hand polishing of fiber optic connectors. Most part numbers consist of a packet of ten 8.5" x 11.0" (21.59cm x 27.94cm) sheets. Each packet will polish between 60 and 80 connectors.

Description	Digi-Key Part No.	Price Each	AMP Part No.
LightCrimp XTC Termination Tool Kit			
Mini Tool Kit	A9825-ND	619.33	492322-1
Polishing (Lapping) Film Sheets			
5µm, Light Gray, (multiples of 10 sheets)	A20221-ND	16.98	228433-8
1µm, Green, (multiples of 10 sheets)	A20222-ND	16.98	228433-7
0.3µm, White, (multiples of 10 sheets)	A20223-ND	16.98	228433-5

SC Connectors

Epoxy / Polish

RoHS COMPLIANT

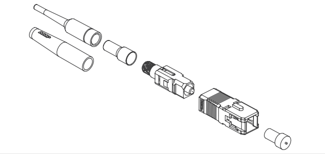

Features:
- Fastest Assembly
- Field installable
- Anaerobic epoxy compatible
- For 125µm cladding diameter
- Insertion Loss: <0.2 dB Typical

Mode Type	Housing Color	Durability Cycles	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Single	Blue	200	A36327-ND	5.40	4.80	5504646-7
Multi	Beige	500	A36326-ND	4.73	4.20	5503948-5

ST Connectors

Epoxy / Polish

RoHS COMPLIANT

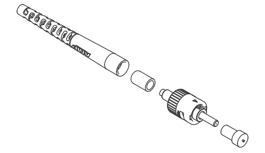

Features:
- Pre-Polished
- Mates with standard couplers, adapters and adapter plates
- Temperature Range: -10°C ~ 60°C
- Meets TIA/EIA 568-B.3

Fiber Size (µm)	Mode Type	Ferrule Material	Insertion Loss dB, Average	Operating Temp. Range (°C)	Durability Cycles, <.20 (dB) Change	Digi-Key Part No.	Price Each 1	10	AMP Part No.
125	Multi	Ceramic	0.4	-20 ~ 75	1000	A33709-ND	5.40	4.80	5501380-1
125	Multi	Stainless Steel	0.3	-20 ~ 75	500	A33710-ND	8.01	7.12	5504008-3
125	Multi	Ceramic	0.4	-20 ~ 75	1000	A20105-ND	2.70	2.40	503571-1
125	Multi	Composite	0.3	-20 ~ 75	5000	A33712-ND	2.23	1.98	5503415-1
125	Single	Zircon/Ceramic	0.3	-20 ~ 75	5000	A35056-ND	5.18	4.60	5502579-2
126	Single	Ceramic	0.3	-20 ~ 75	200	A36325-ND	5.18	4.60	5502580-2
140	Multi	Stainless Steel	0.3	-30 ~ 75	500	A33711-ND	8.01	7.12	5504008-7

LC Connectors

Epoxy / Polish

RoHS COMPLIANT

Fig. 1
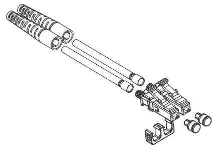

Fig. 2
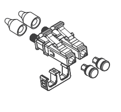

Features:
- Insertion Loss: 658870x-x: 0.5dB Typical; 19183xx-x: 0.2dB Typical
- Durability Cycles: 500
- Operating Temperature: -40°C~75°C

Fig.	Housing Color	Description	Digi-Key Part No.	Price Each 1	10	AMP Part No.
1	Beige	Multimode, Duplex, 900 µm	A98552-ND ***NEW!***	8.44	7.50	1918388-1
	Beige	Multimode, Duplex, 1.6~2.0 mm	A36328-ND	11.14	9.90	6588707-1
	Blue	Singlemode, Duplex, 1.6~2.0 mm	A97949-ND ***NEW!***	9.56	8.50	1918372-1
2	Beige	Multimode, Duplex, 900 µm	A36329-ND	10.69	9.50	6588708-1
	Blue	Singlemode, Duplex, 900 µm	A97950-ND ***NEW!***	9.11	8.10	1918387-1

FSMA Connectors

Features: • Industry compatible with 905 and 906 style connectors • Design parameters conform to NATO and IEC interface standards • Ferrule Material: Stainless steel • Connector Body Material: Nickel-Plated brass **Performance Characteristics:** • Insertion Loss: 1.5dB Typical • Temperature Range: -55°C ~ 105°C • Durability: 200 mating cycles

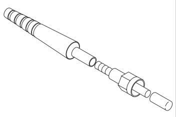

Description	Fiber Diameter	Digi-Key Part No.	Price Each 1	10	AMP Part No.
FSMA Conn. (905)	125µm	A33720-ND◆	12.17	10.82	5504566-1
FSMA Conn. (906)	125µm	A36218-ND◆	13.84	12.30	5504014-1
FSMA Conn. (905)	140µm	A29100-ND	15.01	13.34	504566-2
FSMA Conn. (905)	140µm	A33721-ND◆	12.17	10.82	5504566-2
FSMA Conn. (905)	1000µm	A33722-ND◆	12.17	10.82	3-5504566-0

◆ ***RoHS Compliant***

Kits, Tools and Accessories

Termination Kits: For AMP FSMA, and SC Style: Termination kits provide all the materials and tools (except epoxy) required to terminate a particular type of fiber optic connector. Tools are conveniently packaged in a handy carrying case. The kits contain polishing materials for approximately 60 connectors. The consumable items in the kit can be purchased separately.

Consumables Kits: Contains all consumable supplies for at least 100 connectors. Epoxy (general purpose), polish film, epoxy applicators and polish pad. **Features:** • Pre-centered adapter mount provides quick, easy focusing, and changing of connectors • Kg-3 infrared filter to protect the user • Durable, lightweight A.B.S. plastic microscope body • Lockable, high density polyethylene, double-well carrying case with antistatic foam cut-outs

Description	Digi-Key Part No.	Price Each	AMP Part No.
Epoxy Type Termination Kits (Epoxy Sold Separately)			
FSMA	A9835-ND	786.24	503746-2
SC	A9829-ND	845.67	503746-7
LC	A97956-ND ***NEW!***	899.69	1754603-1
Scribing Tools			
Sapphire-Tipped Scribe Tool	A99109-ND	51.03	504064-1
Replacement Blades for A99109-ND	A99110-ND	46.32	504290-1
Consumables Kits — RoHS Compliant			
FSMA, FSD, ST Style	A9836-ND	253.63	502306-1
FC Type, D4 Type, AMP SC, Singlemode ST Style	A9837-ND	349.55	502306-2
Epoxy Curing Oven			
110VAC Oven with Adapter Block - Universal Block*	A20220-ND	736.70	502134-1

* Universal block 12 single and 4 FSD Connectors

Tyco Electronics **AMP**
Authorized Distributor

Fiber Optic Adapters, Cable Assembly, and Accessories

SC and LC Coupling Adapters

Features: • Suitable for any SC and LC Type connector • Choice of housing colors • Metal Alignment Sleeve

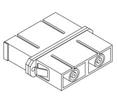
(SC Duplex Shown)

Description	Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
SC Coupling Adapters					
SC Simplex Adapter	Blue	A33714-ND	4.48	3.98	5502632-8
SC Duplex Adapter	Blue	A31777-ND	6.19	5.50	5502776-8
SC Duplex Adapter	Beige	A32500-ND	6.19	5.50	5502776-9
NEW! LC Coupling Adapters NEW!					
LC Duplex Adapter	Blue	A97951-ND*	8.53	7.58	6457567-4
LC Duplex Adapter	Beige	A97952-ND*	8.53	7.58	6457567-5
LC Quad Adapter	Blue	A97953-ND*	17.42	15.48	1695790-4
LC Quad Adapter	Beige	A97954-ND*	15.17	13.48	1695790-5

*All parts are flanged but flangeless versions are available

Hybrid Adapters

Features: • Use for Multimode or Singlemode • Available with mounting screws • Adapt various connector interfaces • Metal alignment sleeve

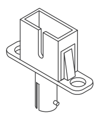
(Simplex Shown)

Descrip-tion	Housing Material	Housing Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Simplex Style						
SC to ST	Nickel Plated	Die Cast	A34377-ND	10.06	8.94	5503638-1
SC to FC	Plastic	Black	A34376-ND	4.48	3.98	5502781-1
SC to FC	Plastic	Beige	A97955-ND ***NEW!***	4.48	3.98	5502781-3
SC to FC	Nickel Plated	Die Cast	A33716-ND	13.66	12.14	5503480-1
Duplex Style						
SC to ST	Plastic	Black	A33717-ND	6.19	5.50	5503137-1
SC to ST	Plastic	Blue	A33718-ND	6.19	5.50	5503137-2

ST Style Adapters

Free-Hanging or Panel Mount Design

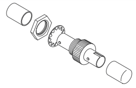

Type	Sleeve Material	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Multimode	Composite	A20109-ND	1.89	1.68	501381-1
Single or Multimode	Metal	A20110-ND	2.23	1.98	504021-1
Single or Multimode	Ceramic	A20111-ND	4.21	3.74	502750-1

Singlemode Fiber Optic Attenuators

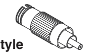
FC Style

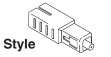
SC Style

Singlemode High Performance Attenuators utilize unique all fiber mechanisms to increase the loss of an optical signal. These designs minimize reflectance. High Performance Attenuators use no filters, air-gaps, or core mismatches. **Specifications:** • **Fixed Attenuation Values:** 3 - 20dB • **Reflectance:** ≤-45dB, -50, -55 and -60dB • **Operating Temperature:** -40°C ~ 75°C • **Vibration Resistance:** ≤0.1 x attenuation

Attenuation (dB)	Digi-Key Part No.	Price Each	AMP Part No.
FC Dual Window Attenuators			
10	A20175-ND	60.75	1-209948-0
SC Dual Window Attenuators			
3	A20178-ND	60.75	209943-3
3	A34371-ND◆	60.75	5209943-3
5	A20179-ND	60.75	209943-5
5	A34372-ND◆	60.75	5209943-5
10	A34368-ND◆	60.75	1-5209943-0
15	A34369-ND◆	60.75	1-5209943-5
20	A20182-ND	60.75	2-209943-0

◆ *RoHS Compliant*

Fiber Optic Multimode Switches

Low Profile Fiber Optic Switches are miniature, board mountable devices that permit the switching of an optical signal from one fiber to another. Switching is accomplished by a slight pivoting motion of a spherical mirror which reflects the optical signal to the appropriate fiber. This patented imaging technology provides very low optical loss. Fiber Optic Switches can be terminated with any fiber optic connector. **Specifications:** • **Switching Speed:** 5msec Typical • **Operating wavelength:** 750-1450nm • **Insertion loss at 1300nm:** 0.5dB Typical, 0.8dB Maximum per FOTP-34 • **Crosstalk:** -45dB Typical per FOTP-42 • **Switch Driver:** 5V at 80mA Maximum, 12V option available • **Fiber Type:** Graded Index 62.5/125 • **Lead Length:** 1 meter • **Operating Temperature Range:** -10°C ~ 65°C per FOTP-3, C2 • **Connector Style:** ST Style • **Durability:** >1 million cycles

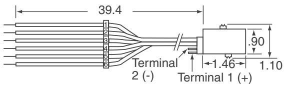

Switch	Fiber Leads Used
1 x 2 SPDT	1, 2, 3
Dual 1 x 2 DPDT	1, 2, 3, 4, 5, 6

Switch Type	Circuit	Electrical Interface	Fiber Connector	Digi-Key Part No.	Price Each	AMP Part No.
1 x 2	SPDT	Straight Pin	ST Style	A34593-ND◆	394.80	5099427-2
Dual 1 x 2	DPDT	Straight Pin	ST Style	A20164-ND	394.80	99982-2

◆ *RoHS Compliant*

ST Style Active Device Mounts

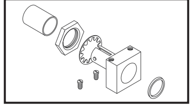

Designed to accept multimode TO-18, TO-46 and TO-52 active devices • Nickel plated, die cast zinc • Mount to PCB or through panel • Includes positioning ring

Description	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Standard Height	A33713-ND	8.57	7.62	5501474-1
Low Profile	A32709-ND	5.04	4.48	5502585-2

Tools and Accessories

Microscope Kit: This hand held microscope incorporates high quality glass optics and dual illumination lighting for unsurpassed 200X magnification **Each Kit Includes:** • 10-power objective microscope with an impact resistant ergonomic rubber shell and high quality glass optics • 20-power eyepiece • Padded carrying case with an integrated belt loop and internal adapter storage pocket • Neck lanyard with safety breakaway feature • Universal 2.5mm ferrule adapter (for SC, ST and FC) **Visual Fault Locator (VFL):** Used to identify breaks and bending in optical fibers and cabling. Its powerful, red (650nm) laser provides the ability to locate damaged, broken, or tightly bent fibers that cause undesirable attenuation. Comes with a standard 2.5mm adapter for SC, ST and FC connectors. Uses one "AA" style battery for >30 hours of continuous use.

Description	Digi-Key Part No.	Price Each	AMP Part No.
Microscope Kit and Adapters			
Microscope Inspection Kit for SC, ST and FC	A36357-ND	210.00	1754767-1
Universal 1.25mm Adapter for LC and MU	A98551-ND ***NEW!***	51.98	1754765-1
Universal 2.5mm Adapter for SC, ST and FC	A36356-ND	34.65	1754766-1
Adapter for MT-RJ	A36358-ND	34.65	1754768-1
Visual Fault Locator (VFL) and Adapter			
Hand Held Visual Fault Locator	A36364-ND	277.50	1828352-1
1.25mm Adapter for LC and MU Connectors	A36365-ND	105.00	1828353-1
Dry Cloth Cleaners			
Reel Cleaner, One Slot; 1.25mm, 2.5mm, MT No Pins	A36366-ND	157.50	1918803-1
Reel Cleaner, Two Slot; 1.25mm and 2.5mm	A36367-ND	157.50	1918805-1
Stick Cleaner; 2.5mm	A36368-ND	360.00	1918807-1
Stick Cleaner; 1.25mm	A36369-ND	360.00	1918808-1
MTP/MPO IBC Cleaner	A36370-ND	187.50	1918809-1
Fiber Connector Card Cleaner	A36371-ND	52.50	1918810-1
Fiber Connector Card Cleaner Refill (10 per pack)	A36372-ND	405.00	1918811-1

Fiber Optic Cable Assemblies

Features: • Multimode • 62.5/125 Micron Fiber Size • Orange

Fig. 1 — ST-ST Zip Style Cable Duplex Connector

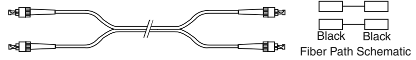

Fig. 2 — FSD-FSD Zip Style Cable Duplex Connector

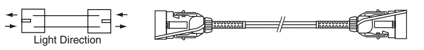

Fig. 3 — SC-SC Zip Style Cable Duplex Connector

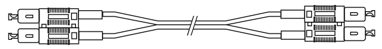

Fig. 4 — SC-ST Zip Style Cable Duplex Connector

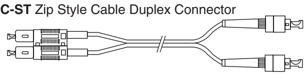

Fig. 5 — SC-LC Zip Style Cable Duplex Connector

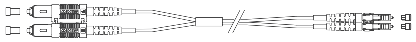

Fig. 6 — LC-LC Zip Style Cable Duplex Connector

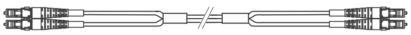

Fig. 7 — LC-LC Riser Rated Cable Simplex Connector

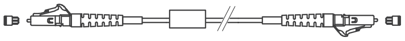

Fig. 8 — SC-SC Riser Rated Cable Simplex Connector

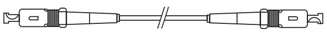

Fig. 9 — SC-ST Riser Rated Cable Simplex Connector

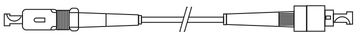

Fig.	Length (Meter)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
1	1	A11BBC-0201E-ND*◆	25.18	22.38	5503995-1
	2	A11BBC-0202E-ND*◆	27.41	24.36	5503995-2
	2	A11BBP-0202D-ND†	30.65	27.24	503994-2
	2	A11BBP-0202E-ND†◆	22.70	20.18	5503994-2
	3	A11BBC-0203E-ND*◆	29.61	26.32	5503995-3
	3	A11BBP-0203E-ND†◆	24.44	21.72	5503994-3
	3	A36342-ND*◆	40.86	36.32	6278207-3
	5	A11BBC-0205E-ND*◆	34.02	30.24	5503995-4
	5	A11BBP-0205E-ND†◆	27.38	24.34	5503994-4
	5	A36343-ND*◆	45.27	40.24	6278207-5
	10	A11BBC-0210E-ND*◆	45.05	40.04	5503995-5
	10	A11BBP-0210E-ND†◆	34.61	30.76	5503994-5
2	1	A11FFP-0201D-ND†	75.94	67.50	504625-1
	2	A11FFP-0202D-ND†	79.99	71.10	504625-2
	3	A11FFP-0203D-ND†	83.99	74.66	504625-3
	5	A11FFP-0205D-ND†	92.00	81.78	504625-4
	10	A11FFP-0210D-ND†	112.05	99.60	504625-5
3	1	A11DDC-0201E-ND◆	40.07	35.62	5504971-1
	2	A11DDC-0202E-ND*◆	41.90	37.24	5504971-2
	3	A11DDC-0203E-ND*◆	43.72	38.86	5504971-3
	3	A36338-ND*◆	48.53	43.14	6278016-3
	3	A36340-ND*◆	50.85	45.20	6374039-3
	5	A11DDC-0205E-ND*◆	47.36	42.10	5504971-4
	5	A36339-ND*◆	52.54	46.70	6278016-5
	5	A36341-ND*◆	54.95	48.84	6374039-5
	10	A11DDC-0210D-ND*	56.48	50.20	504971-5
	10	A11DDC-0210E-ND*◆	56.48	50.20	5504971-5
4	1	A11DBC-0201E-ND*◆	34.25	30.44	5504958-1
	2	A11DBC-0202E-ND◆	35.82	31.84	5504958-2
	5	A11DBC-0205D-ND*	41.18	36.60	504958-4
	5	A11DBC-0205E-ND*◆	41.18	36.60	5504958-4
5	3	A36330-ND*◆	45.23	40.20	6374613-3
	5	A36331-ND*◆	49.05	43.60	6374613-5
5	3	A36332-ND*◆	45.23	40.20	6374615-3
	5	A36333-ND*◆	49.05	43.60	6374615-5
6	3	A36335-ND*◆	56.54	50.26	6828317-3
	5	A36336-ND*◆	63.54	56.48	6828317-5
7	3	A36334-ND*◆	33.95	30.18	6374110-3
8	1	A11DDC-0101C-ND*◆	17.24	15.32	5504970-1
	2	A11DDC-0102C-ND*◆	18.43	16.38	5504970-2
	3	A11DDC-0103C-ND*◆	19.62	17.44	5504970-3
	3	A36337-ND*◆	32.78	29.14	6828887-3
	5	A11DDC-0105C-ND*◆	22.01	19.56	5504970-4
	10	A11DDC-0110C-ND*◆	27.97	24.86	5504970-5
	10	A11DBC-0210E-ND*◆	49.59	44.08	5504958-5
9	10	A11DBC-0110B-ND*	27.97	24.86	504972-5
	10	A11DBC-0110C-ND*◆	32.99	29.32	5504972-5

* Ceramic † Polymer Composite ◆ *RoHS Compliant*

Avago Technologies SFP Optical Transceiver

RoHS COMPLIANT

Description	Wave-length	Link Distance	Operating Temperature (°C)	Digi-Key Part No.	Price Each 1	10	100	Avago Part No.
2/1/1GBd, Digital Diagnostic, Pluggable, Ethernet	850nm	300m, 500m, 550m	-10 ~ 85	516-1713-ND	44.65	36.43	32.32	AFBR-57M5APZ

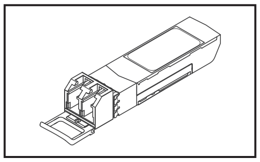

TT electronics OPTEK Technology Infrared Emitters and Receivers

RoHS COMPLIANT

Fig. 1 (Panel Mount)

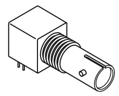

Fig. 2

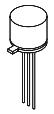

Fig. 3

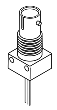

Fiber Optic Pin Photodiodes and Receivers

Fig.	Output Current (mA)	Responsivity Min. / Typical	Output Rise Time - Typical (ns)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
1	25	5.3mV / 7μW	3.3	365-1025-ND	19.44	11.32	10.88	OPF2416T
2	—	0.45AW / 0.55AW	1.0	365-1029-ND	9.96	5.80	5.57	OPF480
3	—	0.45AW / 0.55AW	1.0	365-1030-ND	21.07	12.26	11.79	OPF482

Fiber Optic (850nm) Light-Emitting Diodes

Fig.	Optical Power Output Minimum / Typical	Output Rise Time - Typ. (ns)	Continuous Forward DC Current (mA)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
1	-17.3μW / -13.8μW	4.0	100	365-1024-ND	20.82	12.12	11.65	OPF1414T
2	25.0dBm / 29.0dBm	6.0	100	365-1026-ND	12.10	7.04	6.77	OPF370A
3	25.0μW / 29.0μW	6.0	100	365-1404-ND	23.71	13.80	13.27	OPF372A

JAE Cleanable Adapters

Technology to Inspire Innovation

RoHS COMPLIANT

Features: • Optical and environmental performance equivalent to LC type adapter • Easy, one hand separation of front and rear housing is possible by holding top and bottom of the front housing

Dimensions in mm

Fig. 1

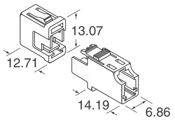

Fig. 2

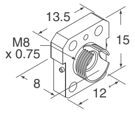

Fig. 3

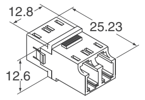

Fig. 4

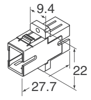

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
1	LC Simplex Ceramic	670-1000-ND	13.65	8.74	8.19	FO-EX-LCAD2
2	Rear Connector	670-1224-ND 670-1225-ND	15.75 15.77	11.20 11.22	10.15 10.17	FO-FC-RS-A2-R FO-FC-RS-A-R
3	DBL LC Duplex Ph-Brnz	670-1515-ND	17.62	12.53	11.36	FO-EX-2LCBD1
4	SC Simplex Ph-Brnz Blue	670-1516-ND	10.93	7.22	6.56	FO-EX-SCAD1-001

Honeywell Sensing and Control Modules and Detectors

Fig.	Operating Temperature (°C)	Description	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
		Single Fiber Duplex Modules					
1	0 ~ 70	1300nm Multimode Laser	480-2032-ND	239.65	205.84	183.78	HOD2236-111/BBA
		850nm VSCEL	480-2033-ND	222.53	191.14	170.66	HOD4090-111/BBA
		Fiber Optic Detectors					
2	-40 ~ 85	850nm TTL TO46	480-2034-ND	44.05	35.94	31.88	HFD3023-500-BBA
3	-40 ~ 100	Silicon PIN Photodiode	480-2035-ND	34.22	28.08	24.57	HFD3065-002-BBA

Dimensions in mm

Fig. 1

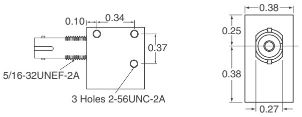

Fig. 2

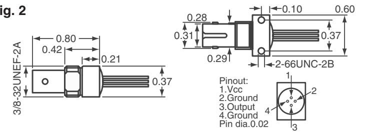

Fig. 3

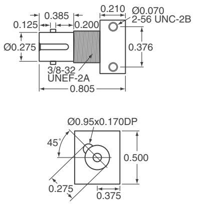

intel Leap ahead™ SFF and SFP Optical Transceivers

RoHS COMPLIANT

Intel optical components are modular building blocks that enable networking equipment manufacturers to create standard-based products with shorter time to market and reduce development costs. SFF and SFP Optical Transceivers are key components in high-speed enterprise networks for electrical and optical signal conversion.

Description	Wave-length (nm)	Link Distance	Operating Temperature (°C)	Digi-Key Part No.	Price Each 1	10	100	Intel Part No.
				Small Form-Factor Fixed (SFF)				
4/2/1Gbps, Multimode	850	150m	-20 ~ 85	874474-ND‡	56.87	44.90	38.91	TXN31015D200000
2/1Gbps Tri-Rate, Ethernet 1.25Gbps, Multimode	850	300m, 500m	-10 ~ 70	867721-ND	42.88	33.90	27.57	TXN310110100000
	850	300m, 500m	-10 ~ 70	859080-ND	42.88	33.90	27.57	TXN310110000000
				Small Form-Factor Pluggable (SFP)				
4/2/1Gbps, Singlemode	1310	4km	-30 ~ 85	881112-ND‡	153.73	135.10	118.80	TXN21125D000000
	1310	10km	-30 ~ 85	867394-ND‡	209.99	197.37	189.47	TXN22125D000000
Ethernet 1.25Gbps, Singlemode	1310	10km	-20 ~ 85	867465-ND	86.84	76.32	67.11	TXN221200000000
4/2/1Gbps, Multimode	850	150m	-20 ~ 85	874223-ND‡	49.88	39.43	32.07	TXN31115D200000
2/1Gbps Tri-Rate, Ethernet 1.25Gbps, Multimode	850	300m, 500m	-20 ~ 85	886003-ND‡	42.63	33.70	27.41	TXN31111D100000
	850	300m, 500m	-20 ~ 85	871312-ND	42.63	33.70	27.41	TXN311110100000
	850	300m, 500m	-20 ~ 85	859091-ND	42.63	33.70	27.41	TXN311110000000

‡ On Board Diagnostic

SFF
Board Mount
Applications

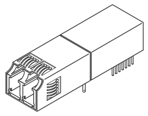

SFP
Pluggable
Applications

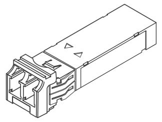

NEW! Finisar® Copper and Optical Transceivers

Broad product offerings and innovative technology have made Finisar the world's largest supplier of pluggable optical modules. Finisar has taken a major role in transforming the datacom and telecom equipment market from utilizing discrete optical components to leveraging the design and pay-as-you-grow flexibility offered by pluggable modules. By incorporating patented technologies across broad product lines, Finisar provides superior advantages in terms of cost, reach and performance for both datacom and telecom applications.

Fig. 1

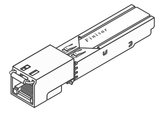

Fig. 2

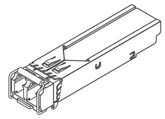

Fig. 3

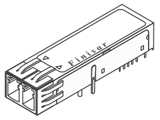

Fig. 4

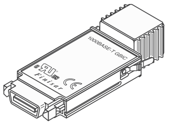

Fig. 5

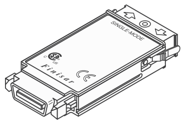

Fig. 6

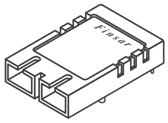

Fig. 7

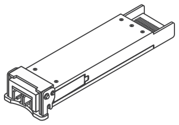

Fig. 8

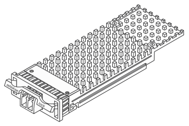

Fig. 9

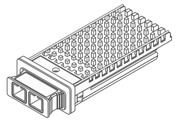

Fig.	Media Type	Data Rate (Maximum)	Wavelength (nm)	Link Distance	Operating Temperature (°C)	Digi-Key Part No.	Price Each			Finisar Part No.
							1	25	100	
SFP/SFP+ — RoHS Compliant										
1	Copper	1.25Gb/s	—	100m	0 ~ 85	775-1002-ND	86.32	75.40	70.20	FCLF-8520-3
						775-1003-ND	86.32	75.40	70.20	FCLF-8521-3
2	Single Mode	155Mb/s	1310	15km	-40 ~ 85	775-1019-ND	86.32	75.40	70.20	FTLF1323P1BTR
			1310	40km	-40 ~ 85	775-1018-ND	114.54	100.05	93.15	FTLF1323P1BTL
			1550	80km	-40 ~ 85	775-1032-ND	261.00	243.00	234.00	FTLF1523P1BTL
		622Mb/s	1310	15km	-40 ~ 85	775-1017-ND	96.28	84.10	78.30	FTLF1322P1BTR
			1310	40km	-40 ~ 85	775-1024-ND	210.25	195.75	188.50	FTLF1422P1BTL
			1550	80km	-40 ~ 85	775-1031-ND	278.40	259.20	249.60	FTLF1522P1BTL
		1.25Gb/s	1310	10km	-40 ~ 85	775-1013-ND	101.26	88.45	82.35	FTLF1318P2BTL
			1310	10km	0 ~ 70	775-1012-ND	94.62	82.65	76.95	FTLF1318P2BCL
		2.125Gb/s	1310	10km	-40 ~ 85	775-1015-ND	107.90	94.25	87.75	FTLF1319P1BTL
			1310	55km	-10 ~ 70	775-1022-ND	316.10	294.30	283.40	FTLF1419P1BCL
			1550	90km	-10 ~ 70	775-1029-ND	418.50	395.25	387.50	FTLF1519P1BCL
			1550	115km	-10 ~ 70	775-1033-ND	598.05	564.83	553.75	FTLF1619P1BCL
		2.67Gb/s	1310	2km	-40 ~ 85	775-1016-ND	185.60	172.80	166.40	FTLF1321P1BTL
			1310	15km	-10 ~ 70	775-1023-ND	255.20	237.60	228.80	FTLF1421P1BCL
			1310	40km	-10 ~ 70	775-1035-ND‡	537.30	507.45	497.50	FTLF1721P2BCL
			1550	15km	0 ~ 70	775-1030-ND	537.30	507.45	497.50	FTLF1521P1BCL
			1550	80km	-10 ~ 70	775-1034-ND‡	665.60	640.00	627.20	FTLF1621P2BCL
		4.25Gb/s	1310	4km	-40 ~ 85	775-1020-ND	156.60	145.80	140.40	FTLF1324P2BTL
			1310	4km	-40 ~ 85	775-1021-ND	165.30	153.90	148.20	FTLF1324P2BTV
			1310	10km	-10 ~ 70	775-1025-ND	350.90	326.70	314.60	FTLF1424P2BCD
			1310	10km	-10 ~ 70	775-1027-ND	332.05	309.15	297.70	FTLF1424P2BCR
			1310	30km	-10 ~ 70	775-1026-ND	413.10	390.15	382.50	FTLF1424P2BCL
			1310	30km	-10 ~ 70	775-1028-ND	436.05	411.83	403.75	FTLF1424P2BCV
	Multimode	125Mb/s	1310	2km	-40 ~ 85	775-1011-ND	58.00	52.20	40.60	FTLF1217P2BTL
		2.125Gb/s	850	550m	-40 ~ 85	775-1041-ND	58.00	52.20	40.60	FTLF8519P2BTL
			850	550m	-20 ~ 85	775-1040-ND	56.00	50.40	39.20	FTLF8519P2BNL
			850	550m	0 ~ 70	775-1039-ND	54.00	48.60	37.80	FTLF8519P2BCL
		4.25Gb/s	850	550m	-20 ~ 85	775-1044-ND	58.00	52.20	40.60	FTLF8524P2BNL
			850	550m	-20 ~ 85	775-1045-ND	57.00	48.00	41.25	FTLF8524P2BNV
		8.5Gb/s	850	150m†	-5 ~ 85	775-1046-ND	220.40	205.20	197.60	FTLF8528P2BNV
SFF — RoHS Compliant										
3	Single Mode	2.125Gb/s	1310	10km	-40 ~ 85	775-1014-ND	107.90	94.25	87.75	FTLF1319F1GTL
	Multimode	2.125Gb/s	850	550m	-40 ~ 85	775-1038-ND	58.00	52.20	40.60	FTLF8519F2GTL
			850	550m	-10 ~ 85	775-1037-ND	56.00	50.40	39.20	FTLF8519F2GNL
		4.25Gb/s	850	550m	-10 ~ 85	775-1042-ND	58.00	52.20	40.60	FTLF8524E2GNL
			850	550m	-10 ~ 85	775-1043-ND	57.00	48.00	41.25	FTLF8524E2GNV
		2.125Gb/s	850	550m	0 ~ 70	775-1036-ND	54.00	48.60	37.80	FTLF8519F2GCL
GBIC — RoHS Compliant										
4	Copper	1.25Gb/s	—	100m	0 ~ 75	775-1000-ND	151.06	131.95	122.85	FCL-8520-3
						775-1001-ND	151.06	131.95	122.85	FCL-8521-3
5	Single Mode	1.25Gb/s	1310	10km	-10 ~ 85	775-1007-ND	126.16	110.20	102.60	FTL-1319-3D
			1310	40km	0 ~ 70	775-1008-ND	341.55	322.58	316.25	FTL-1419-3D
			1550	80km	0 ~ 60	775-1009-ND	513.00	484.50	475.00	FTL-1519-3D
	Multimode	1.25Gb/s	850	550m	-10 ~ 85	775-1010-ND	66.50	56.00	48.13	FTL-8519-3D
1 x 9										
6	Multimode	1.25Gb/s	850	550m	0 ~ 70	775-1056-ND	72.20	60.80	52.25	V23826-K305-C363
			850	550m	0 ~ 70	775-1057-ND	72.20	60.80	52.25	V23826-K305-C63
XFP — RoHS Compliant										
7	Single Mode	10.5Gb/s	1310	10km	-5 ~ 75	775-1047-ND	546.75	516.38	506.25	FTLX1412D3BCL
		11.3Gb/s	1310	10km	-5 ~ 75	775-1048-ND	562.95	531.68	521.25	FTLX1412M3BCL
		11.1Gb/s	1550	40km	-5 ~ 70	775-1050-ND	1532.55	1484.47	1442.40	FTLX1611M3
				80km	-5 ~ 70	775-1051-ND	2822.85	2734.29	2656.80	FTLX1811M3
	Multimode	10.5Gb/s	850	300m†	0 ~ 70	775-1052-ND	375.30	354.45	347.50	FTLX8511D3
XPAK — RoHS Compliant										
8	Multimode	10.3Gb/s	850	300m†	0 ~ 70	775-1054-ND	503.55	475.58	466.25	FTLX8551E3
X2 — RoHS Compliant										
9	Single Mode	10.3Gb/s	1310	10km	0 ~ 70	775-1049-ND	830.70	798.75	782.78	FTLX1441E2
	Multimode	10.3Gb/s	850	300m†	0 ~ 70	775-1053-ND	503.55	475.58	466.25	FTLX8541E2
Accessories										
Evaluation Board for SFP						775-1004-ND◆		290.00/1		FDB-1018
Evaluation Board for XFP						775-1005-ND◆		650.00/1		FDB-1022
Evaluation Board for SFP/SFP+						775-1006-ND		337.50/1		FDB-1027
SFP Cage Plug						775-1055-ND◆		14.23/1		V23818-S5-B1
SFP Cage						775-1059-ND◆		5.88/1		V23838-S5-N1

◆ ***RoHS Compliant*** † Using 50-micron multimode fiber with 2000MHz km bandwidth. ‡ Extended case temperature ranges and reaches are available upon request.

TOSHIBA

Fiber Optic Receiving and Transmitting Modules

Dim. in mm

Fig. 1

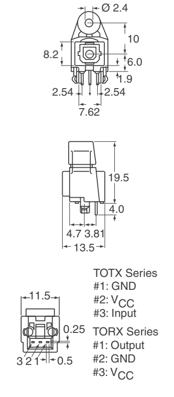

TOTX Series
#1: GND
#2: V_{CC}
#3: Input

TORX Series
#1: Output
#2: GND
#3: V_{CC}

Fig. 2

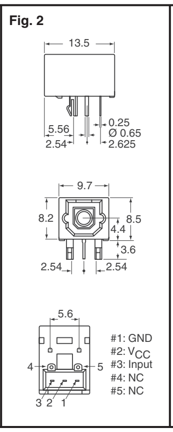

#1: GND
#2: V_{CC}
#3: Input
#4: NC
#5: NC

Fig. 3

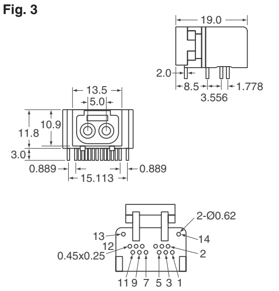

1. GND1 (Receiver)
2. OUTPUT (+)
3. OUTPUT (–)
4. SD
5. $V_{CC}1$ (Receiver)
6. $V_{CC}2$ (Receiver)
7. $V_{CC}3$ (Transmitter)
8. INPUT (–)
9. INPUT (+)
10. Enable
11. GND2 (Transmitter)
12. GND3 (Transmitter)
13. Case
14. Case

Fig.	Supply Voltage Min./Max. (Vcc)	Data Rate Mb/s	Current Con-sumption (mA)	Input Voltage High/Low	Digi-Key Part No.	Price Each 1	10	100	Toshiba Part No.
					Transmitters				
1	2.7/3.6	15	8	2.1/0.9	TOTX147FT-ND	1.25	1.00	.75	TOTX147(F,T)
	2.7/3.6			2.1/0.9	TOTX147L-ND‡	1.50	1.20	.90	TOTX147L(F,T,)
	4.75/5.25			2.0/0.8	TOTX177L-ND‡	1.50	1.20	.90	TOTX177L(F,T)
	4.75/5.25			2.0/0.8	TOTX177FT-ND	1.25	1.00	.75	TOTX177(F,T)
2	2.7/3.6	15	15	2.1/0.9	TOTX141PFT-ND	2.70	2.16	1.68	TOTX141P(F,T)
	2.7/3.6			2.1/0.9	TOTX147PLFT-ND	1.63	1.30	.98	TOTX147PL(F,T)
	4.75/5.25			2.0/0.8	TOTX177PLFT-ND	1.63	1.30	.98	TOTX177PL(F,T)
					Receivers				
1	2.7/3.6	15	10	2.1/0.4	TORX147FT-ND	1.38	1.10	.83	TORX147(F,T)
	2.7/3.6			2.1/0.4	TORX147LFT-ND‡	1.63	1.30	.98	TORX147L(F,T)
	4.75/5.25			3.6/.04	TORX177FT-ND	1.38	1.10	.83	TORX177(F,T)
	4.75/5.25			3.6/.04	TORX177LFT-ND‡	1.63	1.30	.98	TORX177L(F,T)
					Transceiver				
3	3.0/3.6	250	40(T)/35(R)	—	TODX2402(F)-ND	27.00	25.20	23.40	TODX2402(F)

‡ With shutter

SHARP
MICROELECTRONICS

Fiber Optics

Dim. in mm

Fig. 1

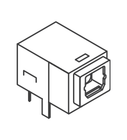

Fig. 2

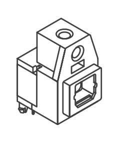

Fig. 3

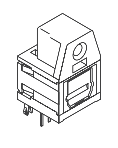

Fig. 4

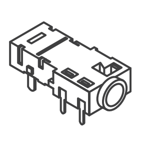

Transmitters and Receivers

Fig.	Vcc Typ. (V)	ViH Min. (V)	ViL Max. (V)	VoH Min. (V)	VoL Max. (V)	Peak Wave-length (nm) Typ.	Operating Transfer Rate (Mbps) Max.	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
								Transmitters				
1	5	2.1	2.9	—	—	660	13.2	425-1898-ND	1.63	1.30	1.08	GP1FP513TK
	3	2.3	0.8	—	—	660	15.5	425-2605-5-ND◆	2.13	1.70	1.41	GP1FMV31TK0F
	5	2.0	0.8	—	—	660	13.2	425-2607-5-ND◆	2.20	1.76	1.46	GP1FMV51TK0F
	5	2.0	0.8	—	—	660	13.2	425-2679-ND◆‡	2.08	1.66	1.37	GP1FM514TZ0F
2	5	2.1	0.8	—	—	660	13.2	425-1101-5-ND	1.75	1.40	1.16	GP1FA551TZ
	3	2.3	0.8	—	—	660	15.5	425-1890-5-ND‡	1.55	1.24	1.03	GP1FA313TZ
	3	2.3	0.8	—	—	660	15.5	425-2699-ND◆∆	1.71	1.43	1.14	GP1FAV30TK0F
	5	2.0	0.8	—	—	660	13.2	425-2701-ND◆∆	1.41	1.18	.94	GP1FAV50TK0F
3	7	2.3	1.5	—	—	660	15.5	425-2503-ND◆‡	1.43	1.14	.95	GP1FAV31TK0F
	7	2.0	0.8	—	—	660	13.2	425-2505-5-ND◆‡	1.18	.94	.78	GP1FAV51TK0F
	5	2.0	0.8	—	—	660	50.0	425-2702-ND◆‡∆	1.85	1.48	1.23	GP1FAV55TK0F
								Receivers				
1	5	—	—	2.7	0.5	700	13.2	425-1897-ND	1.80	1.44	1.19	GP1FP513RK
	5	—	—	2.7	0.5	700	13.2	425-2606-5-ND◆	2.30	1.84	1.52	GP1FMV51RK0F
2	3	—	—	2.1	0.5	700	15.5	425-1889-5-ND‡	1.48	1.18	.98	GP1FA313RZ
	3	—	—	2.1	0.5	700	15.5	425-1891-5-ND	1.43	1.14	.95	GP1FA352RZ
	3	—	—	2.1	0.5	700	15.5	425-2698-ND◆∆	1.71	1.43	1.14	GP1FAV30RK0F
	5	—	—	2.7	0.5	700	13.2	425-2700-ND◆∆	1.71	1.43	1.14	GP1FAV50RK0F
3	7	—	—	2.1	0.5	700	15.5	425-2502-ND◆‡	1.43	1.14	.95	GP1FAV31RK0F
	7	—	—	2.7	0.5	700	13.2	425-2504-5-ND◆‡	1.78	1.42	1.18	GP1FAV51RK0F

◆ ***RoHS Compliant*** ‡ With shutter ∆ ***NEW!***

Mini-Jack for Digital Audio (Electrical and Optical Transmission)

Fig.	Vcc (V)	Peak Wavelength (nm) Typ.	Operating Transfer Rate (Mbps) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Sharp Part No.
				Transmitter				
4	2.7 ~ 3.6	660	8	425-1113-1-ND	2.42	2.12	1.70	GP1FD310TP
				425-2507-1-ND◆	2.42	2.12	1.70	GP1FD310TP0F
				Receiver				
4	2.3 ~ 2.8	700	8	425-1114-1-ND	2.92	2.56	2.05	GP1FD210RP

◆ ***RoHS Compliant***

INDUSTRIAL FIBER OPTICS, INC.

Fiber Optic LEDs and Detectors

Fiber Optic family of low-cost, medium frequency, short distance fiber optic LEDs and photo detectors. **Features:** • Connector-less interface • No optical design required • Simple fiber termination and connection.

Each LED and detector consists of a PBT housing, an internal active element such as an LED or photodetector, and a cinch nut to hold the fiber in place. The PBT housing retains the active element and the cinch nut while optimizing coupling between the active element and the jacketed 1000µm plastic fiber.

Shared Ratings: Maximum Ratings and Characteristics (TA=25°C). **Operating and Storage Temperature Range (TOP,T STG):** -40°C ~ 85°C. De-rated above 25°C: 1.33mW/°C.

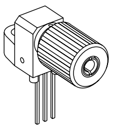

Fiber Optic Connector

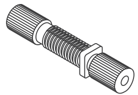

This multi-purpose connector is designed for jacketed 1mm core plastic fiber. It utilizes the same cinch nuts, alignment principles and no-fuss fiber terminations to quickly handle the most common requirements for joining two fibers.

FB139-ND **$9.35**

Description	Reverse Voltage V_R	Power Dissipation P_{TOT} T_A=25°C	Forward Current DC I_F	Rise/Fall Time tr,tf	Typical Photo-sensitivity PEAK	Typical Output Power Coupled*	Digi-Key Part No.	Price Each	IFO, Inc. Part No.
Plastic Fiber Optic Infrared LED	3.0V	100mW	50mA	1.0/1.0 µs	950nm	100µW	FB118-ND	3.48	IF-E91A
Plastic Fiber Optic 100 Mbps Infrared LED	3.0V	60mW	60mA	7.0/7.0 ns	870nm	300µW	FB134-ND◆	5.25	IF-E91D
Plastic Fiber Optic Blue LED	5.0V	60mW	35mA	0.5/0.5 µs	430nm	25µW	FB125-ND◆	14.38	IF-E92A
Plastic Fiber Optic Blue LED	5.0V	60mW	35mA	0.6/0.6 µs	470nm	75µW	FB126-ND◆	14.38	IF-E92B
Plastic Fiber Optic Green LED	5.0V	60mW	35mA	3.5/16 ns	530nm	75µW	FB127-ND◆	10.63	IF-E93
Plastic Fiber Optic Red LED	5.0V	60mW	35mA	0.1/0.1 µs	660nm	<50µW	FB128-ND◆	4.88	IF-E96
Plastic Fiber Optic Super-Bright LED	5.0V	100mW	40mA	0.5/0.5 µs	660nm	<100µW	FB129-ND◆	6.50	IF-E97
Plastic Fiber Optic 50 Mbps Red LED	5.0V	100mW	40mA	8.0/8.0 ns	650nm	>100µW	FB135-ND◆	14.00	IF-E98
Plastic Fiber Optic 155 Mbps Red LED	5.0V	100mW	40mA	—	650nm	-1.5µW	FB136-ND	37.50	IF-E99

Description	Rise/Fall Time tr, tf	Total Capacitance CT	Dark Current (VR=30 Volts, EE=0) ID	Reverse Breakdown Voltage B(BR)R	Max. Photo-sensitivity PEAK	Power Dissipation P_{TOT}	Digi-Key Part No.	Price Each	IFO, Inc. Part No.
Active Photodiode	5/5 ns	4pF	<60nA	60.0V	880nm	100mW	FB120-ND◆	4.18	IF-D91

Description	Rise/Fall Time tr,tf	Collector Emitter Voltage VCEO	Emitter Collector Voltage VECO	Collector Current IC	Collector Peak Current ICM t=1ms	Max. Photo–sensitivity PEAK	Digi-Key Part No.	Price Each	IFO, Inc. Part No.
Active Phototransister	20/20 µs	30.0V	5.0V	50mA	100mA	870nm	FB121-ND◆	3.65	IF-D92
Active Photodarlington	5/2.5 ms	15.0V				850nm	FB122-ND◆	5.65	IF-D93

Description	Rise/Fall Time tr,tf	Supply Voltages VS	Voltage@Output Lead	Propagation Delay Time tP	Max. Photo-sensitivity PEAK	Power Dissipation P_{TOT}	Digi-Key Part No.	Price Each	IFO, Inc. Part No.
Photologic Detector with Totem-Pole Output	70/70 ns	18.0V	—	8 µs	800nm	100mW	FB123-ND	6.55	IF-D95T
Photologic Detector with Open Collector Output	0.1/0.1 µs	18.0V	35.0V	8 µs	800nm	100mW	FB124-ND◆	6.55	IF-D95OC
Photologic Detector with Open Collector Output	—	15.0V	15.0V	140/110 ns	850nm	40mW	FB142-ND◆	10.63	IF-D96F
Photologic Detector with Totem-Pole Output	0.1/0.1 µs	7.0V	—	12 ns	800nm	100mW	FB133-ND◆	18.75	IF-D97
Photologic Detector with Totem-Pole Output	3/3 ns	7.0V	3.4V	3.5 ns	1050nm	250mW	FB137-ND	31.00	IF-D98

Fiber Dia. (mm)	Description	Digi-Key Part No.	Note: X in Part No. = Meter Per Roll Price (Meter) 1	10	25	50	100	250	500
1 x 1	SH4001 Super Eska Fiber Optic Cable, 2.2mm Dia. Jacket	FB140-X-ND◆	1.82	16.94	39.33	76.23	145.20	302.50	544.50

Fiber Dia. (mm)	Description	Digi-Key Part No.	Note: X in Part No. = Meter Per Roll Price (Meter) 1	10	25	50	100	250	500
1 x 2	SH4002 Super Eska Fiber Optic Cable, 2.2mm Dia. Jacket	FB141-X-ND◆	3.96	36.96	85.80	166.32	316.80	660.00	1188.00

◆ ***RoHS Compliant*** ***** Into plastic fiber (1mm core diameter). Distance lens to fiber <0.1 mm, 10 cm polished fiber, IF = 10mA.

Pluggable Terminal Blocks and Pin Headers

Terminal Blocks: • **Hole Diameter**: 1.3mm • **Voltage**: 250V • **Current**: 16A • **Temperature**: -30°C ~ 120°C • **Plating:** BeCu • **Wire Size:** 14-22AWG • **Flame Class:** 94V-0 **Pin Headers:** • **Spacing:** 5mm • **Rated Voltage:** 300V (250V for ED2673-ND and ED2674-ND) • **Rated Current:** 10A • **Terminal Plating:** Tin

Fig. 1

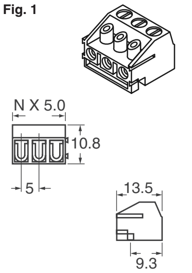

Fig. 2

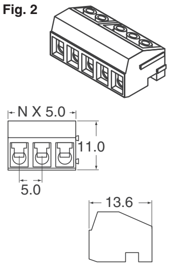

Fig. 3

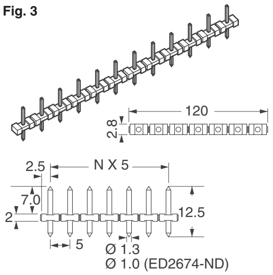

Fig.	No. of Pos.	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
Pluggable Terminal Blocks					
1	2	ED1613-ND◆	.76	6.86	61.00
	3	ED1614-ND◆	1.14	10.24	91.00
	4	ED2214-ND◆	1.53	13.77	122.40
	5	ED2215-ND◆	1.91	17.17	152.60
	6	ED2216-ND◆	2.29	20.61	183.20
	7	ED2217-ND	2.67	24.05	213.80
	10	ED2218-ND◆	3.82	34.38	305.60
	12	ED2219-ND◆	4.59	41.27	366.80
2	2	ED2655-ND◆	.34	3.02	26.80
	3	ED2656-ND◆	.51	4.55	40.40
	4	ED2657-ND◆	.67	6.05	53.80
	5	ED2658-ND◆	.84	7.56	67.20
	6	ED2659-ND◆	1.01	9.07	80.60
	7	ED2660-ND◆	1.18	10.58	94.00
	8	ED2661-ND◆	1.35	12.11	107.60
	10	ED2662-ND	1.68	15.12	134.40
	12	ED2663-ND	2.10	18.90	168.00
Pin Headers — RoHS Compliant					
3	2	ED1660-ND	.36	3.22	26.53
	3	ED1661-ND	.52	4.65	38.32
3	4	ED1662-ND	.68	6.08	50.11
	5	ED1663-ND	.84	7.52	61.90
	6	ED1664-ND	1.00	8.95	73.68
	7	ED1665-ND	1.16	10.38	85.47
	8	ED1666-ND	1.32	11.81	97.26
	9	ED1667-ND	1.48	13.24	109.05
	10	ED1668-ND	1.64	14.67	120.84
	11	ED1669-ND	1.80	16.11	132.63
	12	ED1670-ND	1.96	17.54	144.42
	13	ED1671-ND	2.12	18.97	156.21
	14	ED1672-ND	2.28	20.40	168.00
	15	ED1673-ND	2.44	21.83	179.79
	16	ED1674-ND	2.60	23.26	191.58
	17	ED1675-ND	2.76	24.69	203.37
	18	ED1676-ND	2.92	26.13	215.16
	19	ED1677-ND	3.08	27.56	226.95
	20	ED1678-ND	3.24	28.99	238.74
	21	ED1679-ND	3.40	30.42	250.53
	22	ED1680-ND	3.56	31.85	262.32
	23	ED1681-ND	3.72	33.28	274.10
	24	ED1682-ND	3.51	31.42	258.72
	24	ED2673-ND	1.68	15.12	134.40
	24	ED2674-ND	1.68	15.12	134.40

◆ ***RoHS Compliant***

Terminal Blocks

UL# E101811, 86ME2081 **CSA# 068503X0000**

Specifications: • **Rated Currents:** 10A/15A/16A • **Insulator:** PA 6 GV/PBTP and PBT • **Temperature Ranges:** -30°C ~ 105°C/-33°C ~ 120 °C • **Flame Class:** 94V-0

Fig. 1 Cable Inlet: Front
Current: 16A
-30°C ~ 105°C

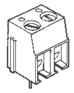

Fig. 2 Cable Inlet: Top
Current: 16A
-30°C ~ 105°C

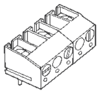

Fig. 3 Cable Inlet: 45°
Current: 16A
-30°C ~ 105°C

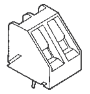

Fig. 4 Double Terminal Block
Current: 16A
-30°C ~ 105°C

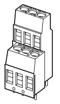

Fig. 5 Vertical
Current: 16A
-33°C ~ 120°C

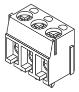

Fig. 6 Horizontal
Current: 16A
-33°C ~ 120°C

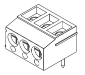

Fig. 7 Vertical Insulator: PBT
Current: 16A
-33°C ~ 120°C

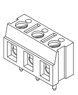

Fig. 8 Vertical
Current: 16A
-33°C ~ 120°C

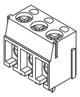

Fig. 9 Horizontal
Current: 16A
-33°C ~ 120°C

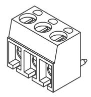

Fig. 10 Vertical
Current: 16A
-33°C ~ 120°C

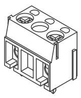

Fig. 11 Horizontal
Current: 16A
-33°C ~ 120°C

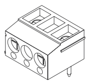

Fig. 12 Vertical
Current: 16A
-33°C ~ 120°C

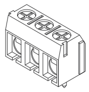

Fig. 13 Vertical
Current: 16A
-33°C ~ 120°C

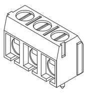

Fig. 14 Horizontal
Current: 16A
-33°C ~ 120°C

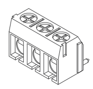

Fig. 15 Horizontal
Current: 10A
-33°C ~ 120°C

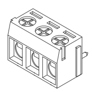

Fig. 16 Vertical
Current: 10A
-33°C ~ 120°C

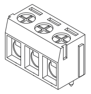

Fig. 17 Vertical
Current: 16A
-33°C ~ 120°C

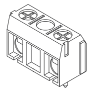

Fig. 18 Horizontal
Current: 16A
-33°C ~ 120°C

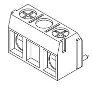

Fig. 19 Horizontal
Current: 10A
-33°C ~ 120°C

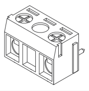

Fig. 20 Vertical
Current: 15A
-33°C ~ 120°C

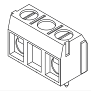

Fig. 21 Vertical
Current: 10A
-33°C ~ 120°C

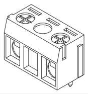

These On-Shore Technology Terminal Blocks are Stackable for any number of contacts. 4.5mm Lead Length.

Fig.	No. of Pos.	Lead Spacing (mm)	Rated Volt. (V-) VDE 0110	Terminal Plating	Block Length (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
1	2	5.0	250	Nickel	10	ED1631-ND◆	.88	7.92	70.40
	2	5.08	300	Tin	10.16	ED1643-ND◆	.75	6.71	59.60
	2	7.5	380	Tin	15	ED1605-ND◆	.65	5.83	51.80
	2	10.0	500	Tin	15	ED1615-ND◆	.65	5.83	51.80
	2	10.0	250	Tin	15	ED1627-ND◆	.65	5.83	51.80
	2	10.0	500	Nickel	15	ED1633-ND◆	.99	8.87	78.80
	3	5.0	250	Nickel	15	ED1632-ND◆	1.32	11.90	105.80
	3	5.08	300	Tin	15.24	ED1644-ND◆	1.12	10.08	89.60
	3	7.5	380	Tin	22.5	ED1606-ND◆	.97	8.73	77.60
	3	10.0	500	Tin	25	ED1616-ND◆	.97	8.73	77.60
	3	10.0	250	Tin	25	ED1628-ND◆	.97	8.73	77.60
	3	10.0	500	Nickel	25	ED1634-ND◆	1.48	13.32	118.40
2	2	5.0	250	Tin	10	ED1603-ND◆	.65	5.83	51.80
	2	5.0	125	Tin	10	ED1625-ND◆	.65	5.83	51.80
	2	5.08	250	Tin	10.16	ED1611-ND◆	.65	5.83	51.80
	2	7.5	380	Tin	15	ED1607-ND◆	.74	6.66	59.20
	2	10.0	250	Tin	15	ED1617-ND	.74	6.66	59.20
	2	10.0	250	Tin	15	ED1629-ND	.74	6.66	59.20
	3	5.0	250	Tin	15	ED1604-ND◆	.97	8.73	77.60
	3	5.0	125	Tin	15	ED1626-ND◆	.97	8.73	77.60
	3	5.08	250	Tin	15.25	ED1612-ND◆	.97	8.73	77.60
	3	7.5	380	Tin	22.5	ED1608-ND	1.11	9.97	88.60
	3	10.0	250	Tin	25	ED1618-ND	1.11	9.97	88.60
	3	10.0	250	Tin	25	ED1630-ND	1.11	9.97	88.60
3	2	5.0	250	Nickel	10	ED1619-ND◆	.72	6.48	57.60
	2	10.0	250	Nickel	15	ED1621-ND◆	.93	8.33	74.00
	3	5.0	250	Nickel	15	ED1620-ND◆	1.08	9.70	86.20
	3	10.0	250	Nickel	25	ED1622-ND◆	1.39	12.47	110.80
4	2	5.0	300	Tin	10	ED1653-ND◆	1.80	16.20	144.00
	3	5.0	300	Tin	15	ED1654-ND◆	2.70	24.30	216.00
5	2	5.0	250	Tin	10	ED2561-ND◆	.28	2.52	22.40
	3	5.0	250	Tin	15	ED2562-ND◆	.42	3.78	33.60
	4	5.0	250	Tin	20	ED2563-ND◆	.56	5.04	44.80
	5	5.0	250	Tin	25	ED2565-ND	.70	6.30	56.00
	6	5.0	250	Tin	30	ED2566-ND◆	.84	7.56	67.20
	8	5.0	250	Tin	40	ED2567-ND	1.26	11.34	100.80
	10	5.0	250	Tin	50	ED2568-ND◆	1.40	12.60	112.00
	12	5.0	250	Tin	60	ED2569-ND◆	1.68	15.12	134.40
6	2	5.0	250	Brass	10	ED2570-ND◆	.34	3.02	26.80
	3	5.0	250	Brass	15	ED2571-ND◆	.51	4.55	40.40
	4	5.0	250	Brass	20	ED2572-ND◆	.67	6.05	53.80
	5	5.0	250	Brass	25	ED2573-ND	.84	7.56	67.20
	6	5.0	250	Brass	30	ED2574-ND◆	1.01	9.07	80.60
	8	5.0	250	Brass	40	ED2575-ND	1.35	12.11	107.60
	10	5.0	250	Brass	50	ED2576-ND	1.68	15.12	134.40
	12	5.0	250	Brass	60	ED2577-ND	2.02	18.14	161.20
7	2	7.5	250	CuZn	15	ED2578-ND	.45	4.03	35.80
	3	7.5	250	CuZn	22.5	ED2579-ND	.67	6.05	53.80
8	2	5.08	250	Brass	10.16	ED2580-ND◆	.28	2.52	22.40
	3	5.08	250	Brass	15.24	ED2581-ND◆	.42	3.78	33.60
	4	5.08	250	Brass	20.32	ED2582-ND◆	.56	5.04	44.80
	5	5.08	250	Brass	25.4	ED2583-ND	.70	6.30	56.00
	6	5.08	250	Brass	30.48	ED2584-ND◆	.84	7.56	67.20
	7	5.08	250	Brass	35.56	ED2585-ND	.98	8.82	78.40
	8	5.08	250	Brass	40.64	ED2586-ND◆	1.12	10.08	89.60
	10	5.08	250	Brass	50.8	ED2587-ND◆	1.40	12.60	112.00
	12	5.08	250	Brass	60.92	ED2588-ND	1.68	15.12	134.40
9	2	5.08	250	Brass	10.16	ED2589-ND	.34	3.02	26.80
	3	5.08	250	Brass	15.24	ED2590-ND	.51	4.55	40.40
	4	5.08	250	Brass	20.32	ED2591-ND	.67	6.05	53.80
	6	5.08	250	Brass	30.48	ED2592-ND	1.01	9.07	80.60
	8	5.08	250	Brass	40.64	ED2593-ND	1.35	12.11	107.60
	10	5.08	250	Brass	50.8	ED2594-ND◆	1.68	15.12	134.40
	12	5.08	250	Brass	60.96	ED2595-ND	2.02	18.14	161.20
10	2	10.0	250	Tin	15	ED2596-ND◆	.37	3.29	29.20
	3	10.0	250	Tin	25	ED2597-ND◆	.55	4.91	43.60
11	2	10.0	250	Brass	15	ED2598-ND	.39	3.53	31.40
11	3	10.0	250	Brass	25	ED2599-ND◆	.59	5.29	47.00
12	2	5.0	250	Brass	10	ED2600-ND◆	.28	2.52	22.40
	3	5.0	250	Brass	15	ED2601-ND◆	.42	3.78	33.60
	4	5.0	250	Brass	20	ED2602-ND◆	.56	5.04	44.80
	5	5.0	250	Brass	25	ED2603-ND	.70	6.30	56.00
	6	5.0	250	Brass	30	ED2604-ND	.84	7.56	67.20
	7	5.0	250	Brass	35	ED2605-ND	.98	8.82	78.40
	8	5.0	250	Brass	40	ED2606-ND	1.12	10.08	89.60
	10	5.0	250	Brass	50	ED2607-ND	1.40	12.60	112.00
	12	5.0	250	Brass	60	ED2608-ND	1.68	15.12	134.40
13	2	5.08	300	Brass	10.16	ED2609-ND◆	.28	2.52	22.40
	3	5.08	300	Brass	15.24	ED2610-ND◆	.42	3.78	33.60
	4	5.08	300	Brass	20.32	ED2611-ND◆	.56	5.04	44.80
	5	5.08	300	Brass	25.4	ED2612-ND◆	.70	6.30	56.00
	6	5.08	300	Brass	30.48	ED2613-ND◆	.84	7.56	67.20
	7	5.08	300	Brass	35.56	ED2614-ND	.98	8.82	78.40
	8	5.08	300	Brass	40.64	ED2615-ND◆	1.12	10.08	89.60
	10	5.08	300	Brass	50.8	ED2616-ND◆	1.40	12.60	112.00
	12	5.08	300	Brass	60.96	ED2617-ND	1.68	15.12	134.40
14	2	5.0	250	Brass	10	ED2618-ND	.34	3.02	26.80
	3	5.0	250	Brass	15	ED2619-ND	.51	4.55	40.40
	4	5.0	250	Brass	20	ED2620-ND◆	.67	6.05	53.80
	5	5.0	250	Brass	25	ED2621-ND	.84	7.56	67.20
	6	5.0	250	Brass	30	ED2622-ND	1.01	9.07	80.60
15	2	3.5	125	Brass	7	ED2623-ND◆	.34	3.02	26.80
	3	3.5	125	Brass	10.5	ED2624-ND	.51	4.55	40.40
	4	3.5	125	Brass	14	ED2625-ND	.67	6.05	53.80
	5	3.5	125	Brass	17.5	ED2626-ND	.84	7.56	67.20
	6	3.5	125	Brass	21	ED2627-ND	1.01	9.07	80.60
	7	3.5	125	Brass	24.5	ED2628-ND	1.18	10.58	94.00
	8	3.5	125	Brass	28	ED2629-ND	1.35	12.11	107.60
	9	3.5	125	Brass	31.5	ED2630-ND	1.51	13.61	121.00
	10	3.5	125	Brass	35	ED2631-ND	1.68	15.12	134.40
	12	3.5	125	Brass	42	ED2632-ND◆	2.02	18.14	161.20
	14	3.5	125	Brass	49	ED2633-ND	2.35	21.17	188.20
	16	3.5	125	Brass	56	ED2634-ND	2.69	24.19	215.00
16	2	3.5	125	Brass	7	ED2635-ND◆	.34	3.02	26.80
	3	3.5	125	Brass	10.5	ED2636-ND◆	.51	4.55	40.40
	4	3.5	125	Brass	14	ED2637-ND◆	.67	6.05	53.80
	5	3.5	125	Brass	17.5	ED2638-ND	.84	7.56	67.20
	6	3.5	125	Brass	21	ED2639-ND◆	1.01	9.07	80.60
	7	3.5	125	Brass	24.5	ED2640-ND◆	1.18	10.58	94.00
	8	3.5	125	Brass	28	ED2641-ND◆	1.35	12.11	107.60
	9	3.5	125	Brass	31.5	ED2642-ND	1.51	13.61	121.00
	10	3.5	125	Brass	35	ED2643-ND◆	1.68	15.12	134.40
	12	3.5	125	Brass	49	ED2644-ND	2.02	18.14	161.20
	14	3.5	125	Brass	56	ED2645-ND	2.35	21.17	188.20
	16	3.5	125	Brass	63	ED2646-ND	2.69	24.19	215.00
17	2	10.0	250	Brass	15	ED2647-ND	.34	3.02	26.80
	3	10.0	250	Brass	25	ED2648-ND◆	.51	4.55	40.40
18	2	10.0	250	Brass	15	ED2649-ND	.37	3.29	29.20
	3	10.0	250	Brass	25	ED2650-ND	.55	4.91	43.60
19	2	7.0	125	Brass	3.5	ED2651-ND	.37	3.33	29.60
	3	7.0	125	Brass	10.5	ED2652-ND	.56	5.00	44.40
20	2	10.16	300	Brass	15.24	ED2653-ND	.34	3.02	26.80
	3	10.16	300	Brass	25.4	ED2654-ND	.51	4.55	40.40
21	2	7.0	125	Brass	10.5	ED2666-ND	.34	3.02	26.80
	3	7.0	125	Brass	17.5	ED2667-ND	.51	4.55	40.40
	4	7.0	125	Brass	24.5	ED2668-ND	.67	6.05	53.80
	5	7.0	125	Brass	31.5	ED2669-ND	.84	7.56	67.20
	6	7.0	125	Brass	38.5	ED2670-ND	1.01	9.07	80.60
	7	7.0	125	Brass	45.5	ED2671-ND	1.18	10.58	94.00
	8	7.0	125	Brass	52.5	ED2672-ND	1.35	12.11	107.60

◆ ***RoHS Compliant***

ON-SHORE TECHNOLOGY, INC.

Terminal Blocks

UL# E101811, 86ME2081

CSA# 068503X0000

These On-Shore Technology Terminal Blocks are Stackable for any number of contacts. 4.5mm Lead Length.

Fig. 1

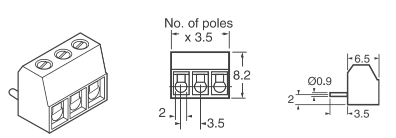

SPECIFICATIONS: • Rated Voltage: 125V • Rated Current: 6A • Wire Size: 28-16AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Gray

Fig. 2

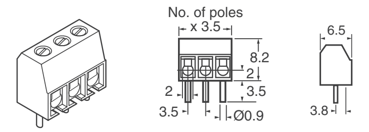

SPECIFICATIONS: • Rated Voltage: 125V • Rated Current: 6A • Wire Size: 28-16AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Gray

Fig. 3

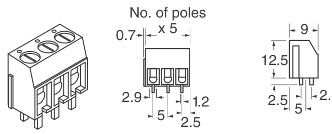

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-12AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Gray

Fig. 4

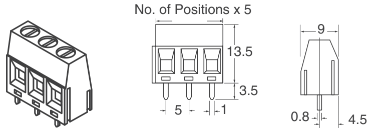

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 16A • Wire Size: 28-12AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 5

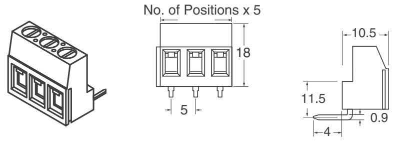

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 20A • Wire Size: 22-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 6

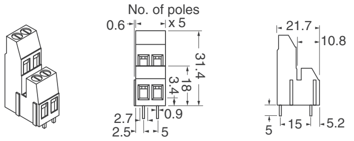

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 20A • Wire Size: 30-12AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 7

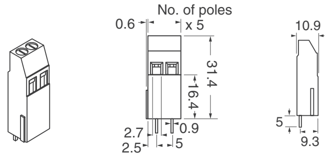

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 20A • Wire Size: 30-12AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 8

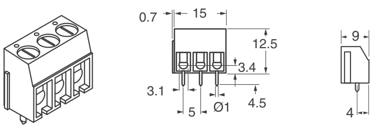

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: AWG 22-14 • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Blue

Fig. 9

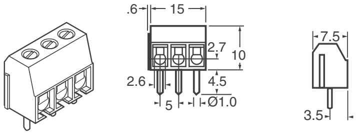

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: AWG 22-14 • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Blue

Fig. 10

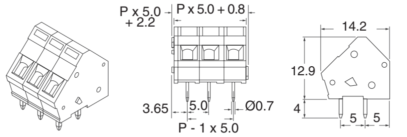

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Slate Gray

Fig. 11

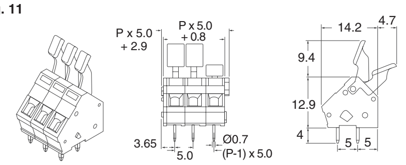

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Slate Gray

Fig. 12

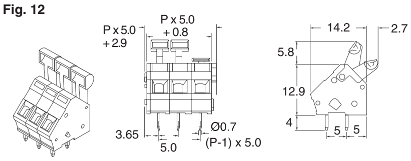

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Slate Gray

Fig.	No. of Pos.	Block Length (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
3.5mm Lead Spacing - Terminal Blocks						
1	2	7.0	ED1501-ND◆	.49	.45	.40
	3	10.5	ED1502-ND◆	.74	.67	.60
	4	14.0	ED1503-ND◆	.99	.89	.79
	5	17.5	ED1504-ND◆	1.23	1.11	.99
	6	21.0	ED1505-ND◆	1.48	1.34	1.19
	7	24.5	ED1506-ND◆	1.73	1.56	1.38
	8	28.0	ED1507-ND◆	1.97	1.78	1.58
	9	31.5	ED1508-ND◆	2.22	2.00	1.78
	10	35.0	ED1509-ND	2.47	2.22	1.98
	11	38.5	ED1510-ND	2.71	2.45	2.17
	12	42.0	ED1511-ND◆	2.96	2.67	2.37
	14	49.0	ED1512-ND	3.45	3.11	2.76
	16	56.0	ED1513-ND◆	3.94	3.55	3.16
2	2	7.0	ED1514-ND◆	.49	.45	.40
	3	10.5	ED1515-ND◆	.74	.67	.60
	4	14.0	ED1516-ND◆	.99	.89	.79
	5	17.5	ED1517-ND◆	1.23	1.11	.99
	6	21.0	ED1518-ND◆	1.48	1.34	1.19
	7	24.5	ED1519-ND◆	1.73	1.56	1.38
	8	28.0	ED1520-ND◆	1.97	1.78	1.58
	9	31.5	ED1521-ND◆	2.22	2.00	1.78
	10	35.0	ED1522-ND◆	2.47	2.22	1.98
	11	38.5	ED1523-ND◆	2.71	2.45	2.17
	12	42.0	ED1524-ND◆	2.96	2.67	2.37
	14	49.0	ED1525-ND◆	3.45	3.11	2.76
	16	56.0	ED1526-ND◆	3.94	3.55	3.16
5.0mm Lead Spacing - Terminal Blocks						
3	2	10.0	ED1556-ND◆	.88	.80	.71
	3	15.0	ED1557-ND◆	1.32	1.19	1.06
	4	20.0	ED1558-ND◆	1.76	1.59	1.41
	5	25.0	ED1559-ND◆	2.20	1.99	1.77
3	6	30.0	ED1560-ND◆	2.64	2.38	2.12
	7	35.0	ED1561-ND	3.08	2.78	2.47
	8	40.0	ED1562-ND	3.53	3.18	2.82
	9	45.0	ED1563-ND	3.96	3.57	3.17
	10	50.0	ED1564-ND◆	4.41	3.97	3.53
	11	55.0	ED1565-ND◆	4.85	4.37	3.88
	12	60.0	ED1566-ND	5.29	4.76	4.23
4	2	10.0	ED1930-ND◆	.75	.68	.60
	3	15.0	ED1931-ND◆	1.12	1.01	.90
5	2	10.0	ED1932-ND◆	1.08	.97	.87
	3	15.0	ED1933-ND◆	1.62	1.46	1.30
6	2	10.0	ED1578-ND	2.47	2.22	1.98
	4	20.0	ED1580-ND	4.93	4.44	3.95
	5	25.0	ED1581-ND	6.16	5.55	4.93
	6	30.0	ED1582-ND◆	7.39	6.66	5.92
	7	35.0	ED1583-ND	8.63	7.77	6.90
	8	40.0	ED1584-ND◆	9.86	8.87	7.89
	9	45.0	ED1585-ND	11.09	9.98	8.87
	10	50.0	ED1586-ND	12.32	11.09	9.86
	11	55.0	ED1587-ND	13.55	12.20	10.85
	12	60.0	ED1588-ND	14.79	13.31	11.83
7	2	10.0	ED1589-ND◆	1.51	1.36	1.21
	4	20.0	ED1591-ND◆	3.02	2.72	2.42
	6	30.0	ED1593-ND	4.53	4.08	3.63
	8	40.0	ED1595-ND	6.04	5.44	4.83
	10	50.0	ED1597-ND	7.55	6.80	6.04
	12	60.0	ED1599-ND	9.06	8.15	7.25
8	2	10.0	ED1601-ND◆	.46	.42	.37
	3	15.0	ED1602-ND◆	.70	.63	.56
	4	20.0	ED2233-ND◆	.94	.85	.75
	6	30.0	ED2234-ND◆	1.40	1.27	1.13
	8	40.0	ED2235-ND◆	1.87	1.69	1.50
	12	60.0	ED2236-ND◆	2.81	2.53	2.25
9	2	10.0	ED1623-ND◆	.46	.42	.37
	3	15.0	ED1624-ND◆	.69	.62	.55
	4	20.0	ED2221-ND◆	.91	.83	.73
	5	25.0	ED2222-ND◆	1.14	1.03	.91
	6	30.0	ED2223-ND◆	1.37	1.24	1.10
	7	35.0	ED2224-ND◆	1.60	1.44	1.28
	10	50.0	ED2225-ND◆	2.28	2.06	1.83
	12	60.0	ED2226-ND◆	2.74	2.47	2.19
10	2	10.0	ED2237-ND◆	.74	.67	.60
	3	15.0	ED2238-ND◆	1.11	1.00	.89
	4	20.0	ED2239-ND◆	1.48	1.34	1.19
	5	25.0	ED2240-ND◆	1.85	1.67	1.48
	6	30.0	ED2241-ND	2.22	2.00	1.78
	7	35.0	ED2242-ND◆	2.59	2.33	2.07
	8	40.0	ED2243-ND◆	2.96	2.67	2.37
	9	45.0	ED2244-ND	3.33	3.00	2.67
	10	50.0	ED2245-ND◆	3.70	3.33	2.96
	11	55.0	ED2246-ND◆	4.07	3.66	3.26
	12	60.0	ED2247-ND◆	4.44	4.00	3.55
11	2	10.0	ED2248-ND◆	.90	.81	.72
	3	15.0	ED2249-ND◆	1.34	1.21	1.08
	4	20.0	ED2250-ND◆	1.79	1.61	1.43
	5	25.0	ED2251-ND◆	2.23	2.01	1.79
	6	30.0	ED2252-ND◆	2.68	2.41	2.15
	7	35.0	ED2253-ND	3.13	2.82	2.51
	8	40.0	ED2254-ND◆	3.57	3.22	2.86
	9	45.0	ED2255-ND◆	4.02	3.62	3.22
	10	50.0	ED2256-ND◆	4.47	4.02	3.58
	11	55.0	ED2257-ND	4.91	4.43	3.93
	12	60.0	ED2258-ND◆	5.36	4.83	4.29
12	2	10.0	ED2259-ND◆	.90	.81	.72
	3	15.0	ED2260-ND◆	1.34	1.21	1.08

◆ ***RoHS Compliant***

(Continued)

Fig. 13

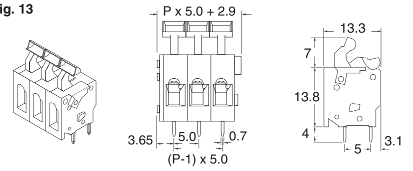

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Slate Gray

Fig. 14

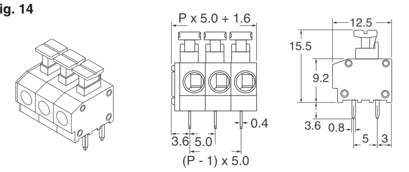

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 10A • Wire Size: 20-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Slate Gray

Fig. 15

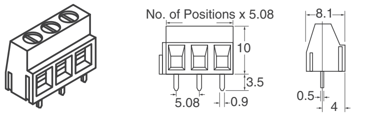

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 16A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 16

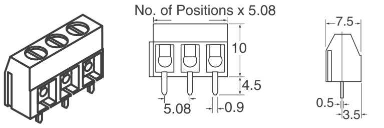

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temp: -30°C/105°C • Flammability: UL 94V-O • Color: Blue

Fig. 17

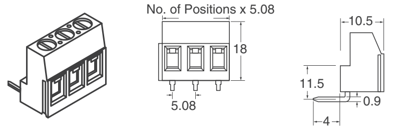

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 18

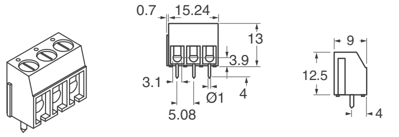

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Blue

Fig. 19

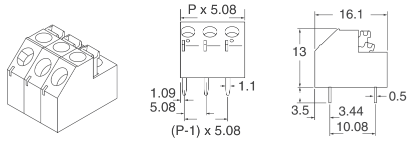

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-15AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Slate Gray

Fig. 20

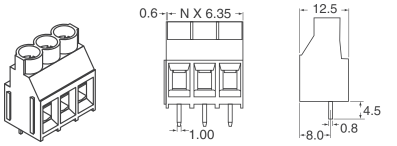

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 25A • Wire Size: 10-24AWG • Temp.: -33°C/120°C • Flammability: UL 94V-O • Color: Green

Fig. 21

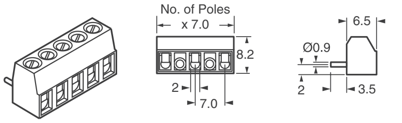

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 6A • Wire Size: 28-16AWG • Temp.: -30°C/105°C • Flammability: UL 94V-O • Color: Gray

Fig. 22

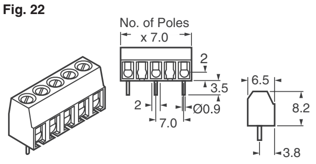

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 6A • Wire Size: 28-16AWG • Temperature: -30°C/105°C • Flammability: UL 94V-O • Color: Gray

Fig. 23

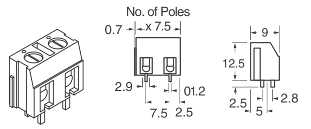

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-12AWG • Temperature: -30°C/105°C • Flammability: UL 94V-O • Color: Gray

Fig. 24

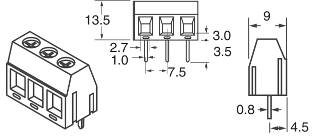

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 16A • Wire Size: 22-12AWG • Temperature: -30°C/105°C • Flammability: UL 94V-O • Color: Green

Fig. 25

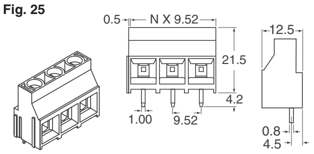

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 25A • Wire Size: 10-24AWG • Temperature: -33°C/120°C • Flammability: UL 94V-O • Color: Green

Fig.	No. of Pos.	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
12	4	20.0	ED2261-ND◆	1.79	1.61	1.43
	5	25.0	ED2262-ND◆	2.23	2.01	1.79
	6	30.0	ED2263-ND◆	2.68	2.41	2.15
	7	35.0	ED2265-ND	3.13	2.82	2.51
	8	40.0	ED2266-ND◆	3.57	3.22	2.86
	9	45.0	ED2267-ND◆	4.02	3.62	3.22
	10	50.0	ED2268-ND◆	4.47	4.02	3.58
	11	55.0	ED2269-ND	4.91	4.43	3.93
	12	60.0	ED2270-ND◆	5.36	4.83	4.29
13	2	10.0	ED2293-ND◆	.83	.75	.67
	3	15.0	ED2294-ND◆	1.25	1.13	1.00
	4	20.0	ED2295-ND	1.67	1.50	1.34
	5	25.0	ED2296-ND◆	2.08	1.88	1.67
	6	30.0	ED2297-ND◆	2.50	2.25	2.00
	7	35.0	ED2298-ND	2.91	2.62	2.33
	8	40.0	ED2299-ND◆	3.33	3.00	2.67
	9	45.0	ED2300-ND◆	3.74	3.37	3.00
	10	50.0	ED2301-ND	4.16	3.75	3.33
	11	55.0	ED2302-ND	4.57	4.12	3.66
	12	60.0	ED2303-ND◆	4.99	4.49	3.99
14	2	10.0	ED2315-ND◆	.90	.81	.72
	3	15.0	ED2316-ND◆	1.34	1.21	1.08
	4	20.0	ED2317-ND◆	1.79	1.61	1.43
	5	25.0	ED2318-ND	2.23	2.01	1.79
	6	30.0	ED2319-ND◆	2.68	2.41	2.15
	7	35.0	ED2320-ND	3.13	2.82	2.51
	8	40.0	ED2321-ND◆	3.57	3.22	2.86
	9	45.0	ED2322-ND	4.02	3.62	3.22
	10	50.0	ED2323-ND◆	4.47	4.02	3.58
	11	55.0	ED2324-ND	4.91	4.43	3.93
	12	60.0	ED2325-ND	5.36	4.83	4.29
5.08mm Lead Spacing - Terminal Blocks						
15	2	10.16	ED1973-ND◆	.74	.67	.60
15	3	15.24	ED1974-ND◆	1.11	1.00	.89
16	2	10.16	ED1975-ND◆	.49	.45	.40
	3	15.24	ED1976-ND◆	.74	.67	.60
17	2	10.16	ED1977-ND	1.08	.97	.87
	3	15.24	ED1978-ND	1.62	1.46	1.30
18	2	10.16	ED1609-ND◆	.46	.42	.37
	3	15.24	ED1610-ND◆	.68	.62	.55
	4	20.32	ED2227-ND◆	.91	.83	.73
	5	25.40	ED2228-ND◆	1.14	1.03	.91
	6	30.48	ED2229-ND◆	1.37	1.24	1.10
	7	35.56	ED2230-ND◆	1.60	1.44	1.28
	10	50.80	ED2231-ND◆	2.28	2.06	1.83
	12	60.96	ED2232-ND◆	2.74	2.47	2.19
19	2	10.16	ED2326-ND◆	.96	.86	.77
	3	15.24	ED2327-ND◆	1.43	1.29	1.15
	4	20.32	ED2328-ND◆	1.91	1.72	1.53
	5	25.40	ED2329-ND◆	2.39	2.15	1.91
	6	30.48	ED2330-ND	2.87	2.58	2.30
	7	35.56	ED2331-ND◆	3.34	3.01	2.68
6.35mm Lead Spacing - Terminal Blocks — RoHS Compliant						
20	2	12.70	ED2675-ND	.80	.72	.64
	3	19.05	ED2676-ND	1.20	1.08	.96
7.0mm Lead Spacing - Terminal Blocks						
21	2	14.0	ED1527-ND◆	.54	.49	.44
	3	21.0	ED1528-ND◆	.82	.74	.66
	4	28.0	ED1529-ND◆	1.08	.98	.87
	5	35.0	ED1530-ND◆	1.36	1.22	1.09
	7	49.0	ED1532-ND◆	1.90	1.71	1.52
	8	56.0	ED1533-ND◆	2.17	1.96	1.74
22	2	14.0	ED1534-ND◆	.54	.49	.44
	3	21.0	ED1535-ND	.82	.74	.66
22	4	28.0	ED1536-ND◆	1.08	.98	.87
	5	35.0	ED1537-ND◆	1.36	1.22	1.09
	6	42.0	ED1538-ND◆	1.63	1.47	1.30
	7	49.0	ED1539-ND	1.90	1.71	1.52
	8	56.0	ED1540-ND◆	2.17	1.96	1.74
7.5mm Lead Spacing - Terminal Blocks						
23	2	15.0	ED1567-ND◆	.93	.84	.74
	3	22.5	ED1568-ND◆	1.39	1.25	1.11
	4	30.0	ED1569-ND◆	1.85	1.67	1.48
	5	37.5	ED1570-ND◆	2.31	2.08	1.85
	6	45.0	ED1571-ND	2.77	2.50	2.22
	7	52.5	ED1572-ND	3.24	2.92	2.59
	8	60.0	ED1573-ND	3.70	3.33	2.96
	9	67.5	ED1574-ND◆	4.16	3.75	3.33
	10	75.0	ED1575-ND	4.62	4.16	3.70
	11	82.5	ED1576-ND	5.08	4.58	4.07
	12	90.0	ED1577-ND	5.55	5.00	4.44
24	2	15.0	ED2354-ND◆	.83	.75	.67
	3	22.5	ED2355-ND◆	1.25	1.13	1.00
	4	30.0	ED2356-ND◆	1.67	1.50	1.34
	5	37.5	ED2357-ND◆	2.08	1.88	1.67
	6	45.0	ED2358-ND◆	2.50	2.25	2.00
	7	52.5	ED2359-ND◆	2.91	2.62	2.33
	8	60.0	ED2360-ND◆	3.33	3.00	2.67
	9	67.5	ED2361-ND◆	3.74	3.37	3.00
	10	75.0	ED2362-ND◆	4.16	3.75	3.33
	11	82.5	ED2363-ND	4.57	4.12	3.66
	12	90.0	ED2364-ND◆	4.99	4.49	3.99
9.52mm Lead Spacing - Terminal Blocks — RoHS Compliant						
25	2	19.04	ED2677-ND	.80	.72	.64
	3	28.56	ED2678-ND	1.20	1.08	.96

◆ *RoHS Compliant*

ON-SHORE TECHNOLOGY, INC.

Two-Piece Terminal Blocks

Housings: PCB Mini-Terminal Block housings are precision molded from self-extinguishing 6.6 polyimide (nylon) molding material. All housings have funnel shaped wire entry guides to prevent wire fraying and minimize misconnections.

Fig. 1

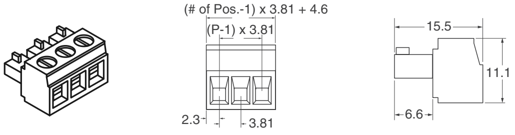

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Wire Size:** 28-16AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-O • **Color:** Green

Fig. 2

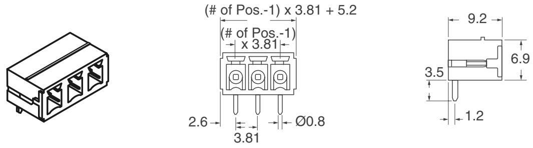

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-O • **Color:** Green

Fig. 3

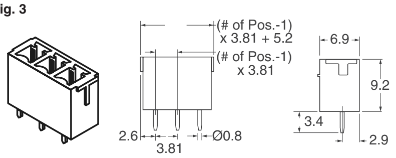

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-O • **Color:** Green

Fig. 4

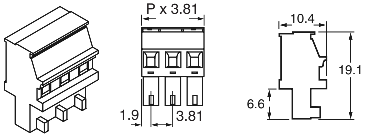

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Wire Size:** 28-16AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 5

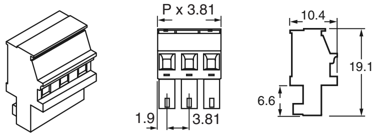

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Wire Size:** 28-16AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 6

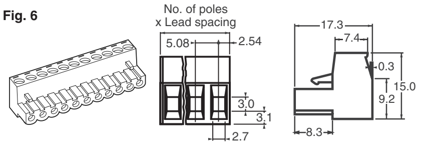

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 7

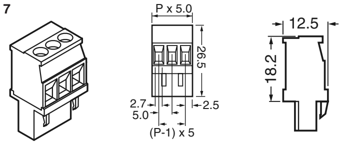

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-10AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 8

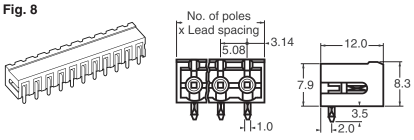

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

3.81mm Lead Spacing — Plugs — RoHS Compliant

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
1	2	8.41	ED1960-ND	1.42	1.28	1.14
	3	12.22	ED1961-ND	2.13	1.92	1.70
	4	16.03	ED1962-ND	2.83	2.55	2.27
	5	19.84	ED1963-ND	3.54	3.19	2.84
	6	23.65	ED1964-ND	4.25	3.83	3.41
	7	27.46	ED1965-ND	4.96	4.47	3.97
	8	31.27	ED1966-ND	5.67	5.11	4.54
	9	35.08	ED1967-ND	6.38	5.74	5.10
	10	38.89	ED1968-ND	7.09	6.38	5.67
	11	42.70	ED1969-ND	7.79	7.02	6.24
	12	46.51	ED1970-ND	8.50	7.65	6.80
	14	54.13	ED1971-ND	9.92	8.93	7.94
	16	61.75	ED1972-ND	11.34	10.21	9.07

3.81mm Lead Spacing — Horiz. Header

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
2	2	9.01	ED1934-ND◆	.62	.56	.50
	3	12.82	ED1935-ND◆	.93	.84	.74
	4	16.63	ED1936-ND◆	1.23	1.11	.99
	5	20.44	ED1937-ND◆	1.54	1.39	1.24
	6	24.25	ED1938-ND◆	1.85	1.67	1.48
	7	28.06	ED1939-ND◆	2.16	1.94	1.73
	8	31.87	ED1940-ND◆	2.47	2.22	1.98
	9	35.68	ED1941-ND◆	2.77	2.50	2.22
	10	39.49	ED1942-ND◆	3.08	2.78	2.47
	11	43.30	ED1943-ND	3.39	3.05	2.71
	12	47.11	ED1944-ND◆	3.70	3.33	2.96
	14	54.73	ED1945-ND◆	4.31	3.89	3.45
	16	63.35	ED1946-ND◆	4.93	4.44	3.95

3.81mm Lead Spacing — Vert. Header

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
3	2	9.01	ED1947-ND◆	.62	.56	.50
	3	12.82	ED1948-ND◆	.93	.84	.74
	4	16.63	ED1949-ND◆	1.23	1.11	.99
	5	20.44	ED1950-ND◆	1.54	1.39	1.24
	6	24.25	ED1951-ND◆	1.85	1.67	1.48
	7	28.06	ED1952-ND◆	2.16	1.94	1.73
	8	31.87	ED1953-ND◆	2.47	2.22	1.98
	9	35.68	ED1954-ND◆	2.77	2.50	2.22
	10	39.49	ED1955-ND◆	3.08	2.78	2.47
	11	43.30	ED1956-ND	3.39	3.05	2.71
	12	47.11	ED1957-ND◆	3.70	3.33	2.96
	14	54.73	ED1958-ND◆	4.31	3.89	3.45
	16	63.35	ED1959-ND◆	4.93	4.44	3.95

3.81mm Lead Spacing — Plugs

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
4	2	7.62	ED2454-ND◆	1.11	1.00	.89
	3	11.43	ED2455-ND◆	1.67	1.50	1.34
	4	15.24	ED2456-ND◆	2.22	2.00	1.78
	5	19.05	ED2457-ND◆	2.77	2.50	2.22
	6	22.86	ED2458-ND◆	3.33	3.00	2.67
	7	26.67	ED2459-ND	3.88	3.50	3.11
	8	30.48	ED2460-ND◆	4.44	4.00	3.55
	9	34.29	ED2461-ND◆	4.99	4.49	3.99
	10	38.10	ED2462-ND◆	5.55	5.00	4.44
	12	45.72	ED2463-ND◆	6.65	5.99	5.33
	14	53.34	ED2464-ND	7.76	6.99	6.21
	16	60.96	ED2465-ND◆	8.87	7.99	7.10

3.81mm Lead Spacing — Plugs

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
5	2	7.62	ED2466-ND◆	1.11	1.00	.89
	3	11.43	ED2467-ND◆	1.67	1.50	1.34
	4	15.24	ED2468-ND◆	2.22	2.00	1.78
	5	19.05	ED2469-ND◆	2.77	2.50	2.22
	6	22.86	ED2470-ND◆	3.33	3.00	2.67
	7	26.67	ED2471-ND◆	3.88	3.50	3.11
	8	30.48	ED2472-ND◆	4.44	4.00	3.55
	9	34.29	ED2473-ND◆	4.99	4.49	3.99
	10	38.10	ED2474-ND	5.55	5.00	4.44
	12	45.72	ED2475-ND◆	6.65	5.99	5.33
	14	53.34	ED2476-ND	7.76	6.99	6.21
	16	60.96	ED2477-ND◆	8.87	7.99	7.10

5mm Lead Spacing — Plugs — RoHS Compliant

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
6	2	10	ED1701-ND§	1.26	1.13	1.00
	3	15	ED1702-ND§	1.89	1.70	1.50
	4	20	ED1703-ND§	2.17	1.96	1.74
	5	25	ED1704-ND§	2.71	2.45	2.17
	6	30	ED1705-ND§	3.25	2.93	2.61
	7	35	ED1706-ND§	3.79	3.42	3.04
	8	40	ED1707-ND§	4.34	3.91	3.47
	9	45	ED1708-ND§	4.88	4.39	3.91
	10	50	ED1709-ND§	5.42	4.88	4.34
	11	55	ED1710-ND§	5.96	5.37	4.77
	12	60	ED1711-ND§	6.51	5.86	5.21
	14	70	ED1712-ND§	7.59	6.84	6.08
	16	80	ED1713-ND§	8.67	7.81	6.94
	18	90	ED1714-ND§	9.76	8.79	7.81
	20	100	ED1715-ND§	10.84	9.76	8.68
	24	120	ED1716-ND§	13.01	11.71	10.41

5mm Lead Spacing — Plugs

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
7	2	10	ED2376-ND◆	1.76	1.59	1.41
	3	15	ED2377-ND◆	2.64	2.38	2.12
	4	20	ED2378-ND◆	3.53	3.18	2.82
	5	25	ED2379-ND◆	4.41	3.97	3.53
	6	30	ED2380-ND◆	5.29	4.76	4.23
	7	35	ED2381-ND◆	6.17	5.55	4.94
	8	40	ED2382-ND◆	7.05	6.35	5.64
	9	45	ED2383-ND	7.93	7.14	6.35
	10	50	ED2384-ND◆	8.81	7.93	7.05
	12	60	ED2385-ND	10.57	9.52	8.46
	14	70	ED2386-ND	12.34	11.11	9.87
	16	80	ED2387-ND◆	14.10	12.69	11.28

5mm Lead Spacing — Horiz. Headers

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
8	2	10	ED1801-ND◆†	.47	.43	.38
	3	15	ED1802-ND◆†	.71	.64	.57
	4	20	ED1803-ND◆†	.95	.85	.75
	5	25	ED1804-ND◆†	1.18	1.06	.94
	6	30	ED1805-ND◆†	1.41	1.27	1.13
	7	35	ED1806-ND◆†	1.65	1.48	1.31
	8	40	ED1807-ND◆†	1.89	1.70	1.50
	9	45	ED1808-ND†	2.13	1.91	1.69
	10	50	ED1809-ND◆†	2.36	2.12	1.87
	11	55	ED1810-ND◆†	2.59	2.33	2.06
	12	60	ED1811-ND◆†	2.83	2.54	2.25
	14	70	ED1812-ND◆†	3.30	2.97	2.62
	16	80	ED1813-ND◆†	3.77	3.39	3.00
	18	90	ED1814-ND◆†	4.25	3.81	3.37
	20	100	ED1815-ND◆†	4.72	4.23	3.74
	24	120	ED1816-ND◆†	5.66	5.08	4.49

5mm Lead Spacing — Vert. Headers‡

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
9	2	10	ED1833-ND◆†	.47	.43	.38
	3	15	ED1834-ND◆†	.71	.64	.57
	4	20	ED1835-ND†	.95	.85	.75
	5	25	ED1836-ND†	1.18	1.06	.94
	6	30	ED1837-ND◆†	1.41	1.27	1.13
	7	35	ED1838-ND◆†	1.65	1.48	1.31
	8	40	ED1839-ND◆†	1.89	1.70	1.50
	9	45	ED1840-ND†	2.13	1.91	1.69
	10	50	ED1841-ND◆†	2.36	2.12	1.87
	11	55	ED1842-ND◆†	2.59	2.33	2.06
	12	60	ED1843-ND◆†	2.83	2.54	2.25
	14	70	ED1844-ND◆†	3.30	2.97	2.62
	16	80	ED1845-ND◆†	3.77	3.39	3.00
	18	90	ED1846-ND◆†	4.25	3.81	3.37
	20	100	ED1847-ND◆†	4.72	4.23	3.74
	24	120	ED1848-ND†	5.66	5.08	4.49

5.08mm Lead Spacing — Plugs — RoHS Compliant

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
6	2	10.16	ED1717-ND§	1.26	1.13	1.00
	3	15.24	ED1718-ND§	1.89	1.70	1.50
	4	20.32	ED1719-ND§	2.52	2.26	2.00
	5	25.40	ED1720-ND§	3.15	2.83	2.50
	6	30.48	ED1721-ND§	3.77	3.39	3.00
	7	35.56	ED1722-ND§	4.40	3.95	3.49
	8	40.64	ED1723-ND§	5.03	4.52	4.00
	9	45.72	ED1724-ND§	5.66	5.08	4.49
	10	50.80	ED1725-ND§	6.29	5.64	4.99
	11	55.88	ED1726-ND§	6.92	6.21	5.49
	12	60.96	ED1727-ND§	7.55	6.77	5.99
	14	71.12	ED1728-ND§	8.80	7.90	6.99
	16	81.28	ED1729-ND§	10.06	9.02	7.98
	18	91.44	ED1730-ND§	11.32	10.15	8.98
	20	101.60	ED1731-ND§	12.57	11.28	9.98
	24	121.92	ED1732-ND§	15.09	13.53	11.97

5.08mm Lead Spacing — Plugs — RoHS Compliant

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
10	2	20.32	ED2409-ND	1.93	1.74	1.54
	3	25.40	ED2410-ND	2.55	2.30	2.04
	4	30.48	ED2411-ND	3.08	2.78	2.47
	5	35.56	ED2412-ND	3.85	3.47	3.08
	6	40.64	ED2413-ND	4.62	4.16	3.70
	7	45.72	ED2414-ND	5.39	4.86	4.32
	8	50.80	ED2415-ND	6.16	5.55	4.93
	9	55.88	ED2416-ND	6.93	6.24	5.55
	10	60.96	ED2417-ND	7.70	6.93	6.16

5.08mm Lead Spacing — Horiz. Headers

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
8	2	10.16	ED1817-ND◆†	.47	.43	.38
	3	15.24	ED1818-ND◆†	.71	.64	.57
	4	20.32	ED1819-ND◆†	.95	.85	.75
	5	25.40	ED1820-ND◆†	1.18	1.06	.94
	6	30.48	ED1821-ND◆†	1.41	1.27	1.13
	7	35.56	ED1822-ND◆†	1.65	1.48	1.31
	8	40.64	ED1823-ND◆†	1.89	1.70	1.50
	9	45.72	ED1824-ND◆†	2.13	1.91	1.69
	10	50.80	ED1825-ND◆†	2.36	2.12	1.87
	11	55.88	ED1826-ND†	2.59	2.33	2.06
	12	60.96	ED1827-ND◆†	2.83	2.54	2.25
	14	71.12	ED1828-ND◆†	3.30	2.97	2.62
	16	81.28	ED1829-ND◆†	3.77	3.39	3.00
	18	91.44	ED1830-ND◆†	4.25	3.81	3.37
	20	101.60	ED1831-ND◆†	4.72	4.23	3.74
	24	121.92	ED1832-ND◆†	5.66	5.08	4.49

5.08mm Lead Spacing — Horiz. Headers

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
11	2	20.32	ED2427-ND◆	2.18	1.96	1.74
	3	25.40	ED2428-ND◆	2.43	2.19	1.94
	4	30.48	ED2429-ND◆	2.73	2.46	2.18

◆ ***RoHS Compliant*** § Use Keying Star ED1901-ND
† Use Keying Star ED1902-ND
‡ Drawing shows 5.08 pitch

(Continued)

Fig. 9

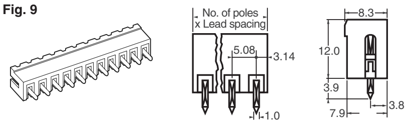

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 10

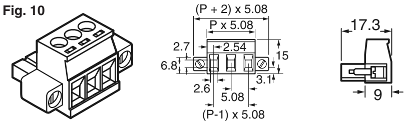

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94 V-0 • **Color:** Green

Fig. 11

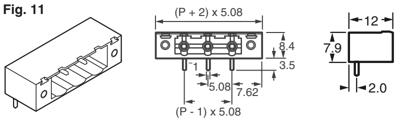

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94 V-0 • **Color:** Green

Fig. 12

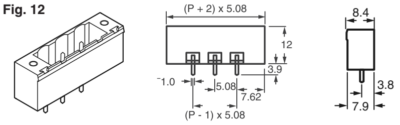

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 13

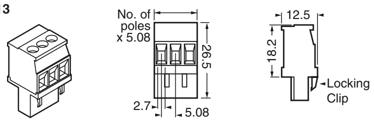

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-10AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 14

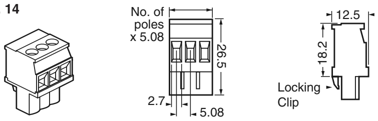

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-10AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94 V-0 • **Color:** Green

Fig. 15

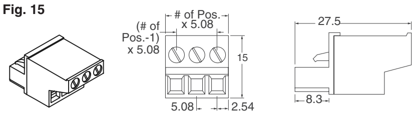

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temp.:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 16

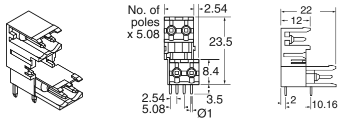

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 17

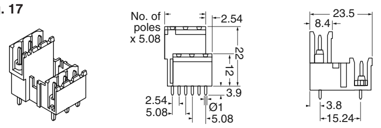

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 18

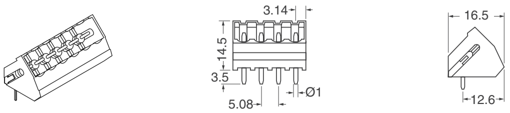

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 19

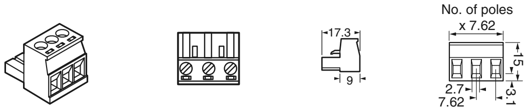

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 20

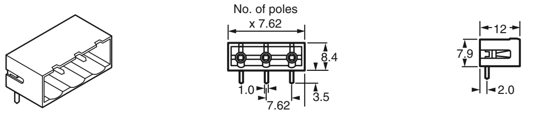

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 21

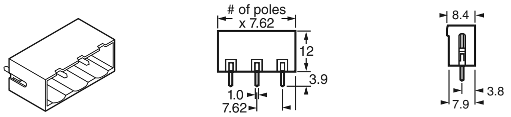

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
11	5	35.56	ED2430-ND◆	3.08	2.78	2.47
	6	40.64	ED2431-ND◆	3.70	3.33	2.96
	7	45.72	ED2432-ND	4.31	3.89	3.45
	8	50.80	ED2433-ND◆	4.93	4.44	3.95
	9	55.88	ED2434-ND◆	5.55	5.00	4.44
	10	60.96	ED2435-ND◆	6.16	5.55	4.93
5.08mm Lead Spacing — Vert. Headers — RoHS Compliant						
9	2	10.16	ED1849-ND†	.47	.43	.38
	3	15.24	ED1850-ND†	.71	.64	.57
	4	20.32	ED1851-ND†	.95	.85	.75
	5	25.40	ED1852-ND†	1.18	1.06	.94
	6	30.48	ED1853-ND†	1.41	1.27	1.13
	7	35.56	ED1854-ND†	1.65	1.48	1.31
	8	40.64	ED1855-ND†	1.89	1.70	1.50
	9	45.72	ED1856-ND†	2.13	1.91	1.69
	10	50.80	ED1857-ND†	2.36	2.12	1.87
	11	55.88	ED1858-ND†	2.59	2.33	2.06
	12	60.96	ED1859-ND†	2.83	2.54	2.25
	14	71.12	ED1860-ND†	3.30	2.97	2.62
	16	81.28	ED1861-ND†	3.77	3.39	3.00
	18	91.44	ED1862-ND†	4.25	3.81	3.37
	20	101.60	ED1863-ND†	4.72	4.23	3.74
	24	121.92	ED1864-ND†	5.66	5.08	4.49
5.08mm Lead Spacing — Vert. Headers						
12	2	20.32	ED2445-ND◆	1.85	1.67	1.48
	3	25.40	ED2446-ND◆	1.85	1.67	1.48
	4	30.48	ED2447-ND◆	2.47	2.22	1.98
	5	35.56	ED2448-ND◆	3.08	2.78	2.47
	6	40.64	ED2449-ND◆	3.70	3.33	2.96
	7	45.72	ED2450-ND◆	4.31	3.89	3.45
	8	50.80	ED2451-ND◆	4.93	4.44	3.95
	9	55.88	ED2452-ND	5.55	5.00	4.44
	10	60.96	ED2453-ND◆	6.16	5.55	4.93
5.08mm Lead Spacing — Vert. Plug						
13	2	10.16	ED1746-ND◆†	1.76	1.59	1.41
	3	15.24	ED1747-ND◆†	2.64	2.38	2.12
	4	20.32	ED1748-ND◆†	3.53	3.18	2.82
	5	25.40	ED1749-ND◆†	4.41	3.97	3.53
	6	30.48	ED1750-ND◆†	5.29	4.76	4.23
	7	35.56	ED1751-ND◆†	6.17	5.55	4.94
	8	40.64	ED1752-ND†	7.05	6.35	5.64
	9	45.72	ED1753-ND◆†	7.93	7.14	6.35
	10	50.80	ED1754-ND◆†	8.81	7.93	7.05
	11	55.88	ED1755-ND†	9.69	8.72	7.75
	12	60.96	ED1756-ND◆†	10.57	9.52	8.46
	14	71.12	ED1757-ND◆†	12.34	11.11	9.87
	16	81.28	ED1758-ND◆†	14.10	12.69	11.28
5.08mm Lead Spacing — Vert. Plug						
14	2	10.16	ED1759-ND◆†	1.76	1.59	1.41
	3	15.24	ED1760-ND◆†	2.64	2.38	2.12
	4	20.32	ED1761-ND◆†	3.53	3.18	2.82
	5	25.40	ED1762-ND◆†	4.41	3.97	3.53
	6	30.48	ED1763-ND◆†	5.29	4.76	4.23
	7	35.56	ED1764-ND◆†	6.17	5.55	4.94
	8	40.64	ED1765-ND◆†	7.05	6.35	5.64
	9	45.72	ED1766-ND†	7.93	7.14	6.35
	10	50.80	ED1767-ND◆†	8.81	7.93	7.05
	11	55.88	ED1768-ND◆†	9.69	8.72	7.75
	12	60.96	ED1769-ND◆†	10.57	9.52	8.46
	14	71.12	ED1770-ND◆†	12.34	11.11	9.87
	16	81.28	ED1771-ND†	14.10	12.69	11.28
5.08mm Lead Spacing — Plugs						
15	2	5.08	ED1983-ND◆	2.47	2.22	1.98
	3	10.16	ED1984-ND◆	3.70	3.33	2.96
	4	15.24	ED1985-ND◆	4.93	4.44	3.95
	5	20.32	ED1986-ND	6.16	5.55	4.93
	6	25.40	ED1987-ND	7.39	6.66	5.92
	7	30.48	ED1988-ND	8.63	7.77	6.90
	8	35.56	ED1989-ND	9.86	8.87	7.89
	9	40.64	ED1990-ND◆	11.09	9.98	8.87
	10	45.72	ED1991-ND	12.32	11.09	9.86
	11	50.80	ED1992-ND	13.55	12.20	10.85
	12	55.88	ED1993-ND	14.79	13.31	11.83
	14	66.04	ED1994-ND	17.25	15.53	13.80
	16	76.20	ED1995-ND	19.71	17.75	15.77
	18	86.36	ED1996-ND◆	22.18	19.96	17.74
	20	96.52	ED1997-ND	24.64	22.18	19.72
	24	116.84	ED1998-ND	29.57	26.62	23.66
5.08mm Lead Spacing — Horiz. Headers — RoHS Compliant						
16	4	5.08	ED1903-ND	2.03	1.83	1.63
	6	10.16	ED1904-ND	3.05	2.75	2.44
5.08mm Lead Spacing — Vert. Headers						
17	4	5.08	ED1905-ND	1.85	1.67	1.48
	6	10.16	ED1906-ND◆	2.77	2.50	2.22
5.08mm Lead Spacing — 45° Header						
18	2	5.08	ED1907-ND◆	.48	.43	.38
	3	10.16	ED1908-ND	.71	.65	.57
	4	15.24	ED1909-ND◆	.95	.86	.76
	5	20.32	ED1910-ND◆	1.19	1.07	.95
	6	25.40	ED1911-ND◆	1.42	1.28	1.14
	7	30.48	ED1912-ND	1.66	1.50	1.33
	8	35.56	ED1913-ND◆	1.90	1.71	1.52
	9	40.64	ED1914-ND	2.14	1.93	1.71
	10	45.72	ED1915-ND◆	2.37	2.14	1.90
	11	50.80	ED1916-ND	2.61	2.35	2.09
	12	55.88	ED1917-ND◆	2.85	2.57	2.28
	13	60.96	ED1918-ND	3.08	2.78	2.47
	14	66.04	ED1919-ND◆	3.32	2.99	2.66
	15	71.12	ED1920-ND	3.56	3.21	2.85
	16	76.20	ED1921-ND◆	3.79	3.42	3.04
	17	81.28	ED1922-ND◆	4.03	3.63	3.23
	18	86.36	ED1923-ND	4.27	3.85	3.42
	19	91.44	ED1924-ND	4.51	4.06	3.61
	20	96.52	ED1925-ND◆	4.75	4.28	3.80
	21	101.60	ED1926-ND	4.98	4.49	3.99
	22	106.68	ED1927-ND	5.22	4.70	4.18
	23	111.76	ED1928-ND	5.45	4.91	4.37
	24	116.84	ED1929-ND◆	5.69	5.13	4.56
7.62mm Lead Spacing — Plugs						
19	2	15.24	ED1733-ND◆§	1.54	1.39	1.24
	3	22.86	ED1734-ND◆§	2.31	2.08	1.85
	4	30.48	ED1735-ND◆§	3.08	2.78	2.47
	5	38.10	ED1736-ND◆§	3.85	3.47	3.08
	6	45.72	ED1737-ND◆§	4.62	4.16	3.70
	7	53.34	ED1738-ND§	5.39	4.86	4.32
	8	60.96	ED1739-ND◆§	6.16	5.55	4.93
	9	68.58	ED1740-ND◆§	6.93	6.24	5.55
	10	76.20	ED1741-ND◆§	7.70	6.93	6.16
	11	83.82	ED1742-ND◆§	8.47	7.63	6.78
	12	91.44	ED1743-ND§	9.24	8.32	7.40
	14	106.68	ED1744-ND◆§	10.78	9.71	8.63
	16	121.92	ED1745-ND§	12.32	11.09	9.86
7.62mm Lead Spacing — Horiz. Header						
20	2	15.24	ED1865-ND†	.56	.50	.45
	3	22.86	ED1866-ND◆†	.83	.75	.67
	4	30.48	ED1867-ND◆†	1.11	1.00	.89
	5	38.10	ED1868-ND◆†	1.39	1.25	1.11
	6	45.72	ED1869-ND◆†	1.67	1.50	1.34
	7	53.34	ED1870-ND†	1.94	1.75	1.56
	8	60.96	ED1871-ND†	2.22	2.00	1.78
	9	68.58	ED1872-ND†	2.50	2.25	2.00
	10	76.20	ED1873-ND◆†	2.77	2.50	2.22
	11	83.82	ED1874-ND†	3.05	2.75	2.44
	12	91.44	ED1875-ND†	3.33	3.00	2.67
	14	106.68	ED1876-ND†	3.88	3.50	3.11
	16	121.92	ED1877-ND†	4.44	4.00	3.55
7.62mm Lead Spacing — Vert. Header						
21	2	15.24	ED1878-ND◆†	.56	.50	.45
	3	22.86	ED1879-ND◆†	.83	.75	.67
	4	30.48	ED1880-ND◆†	1.11	1.00	.89
	5	38.10	ED1881-ND◆†	1.39	1.25	1.11
	6	45.72	ED1882-ND†	1.67	1.50	1.34
	7	53.34	ED1883-ND†	1.94	1.75	1.56
	8	60.96	ED1884-ND◆†	2.22	2.00	1.78
	9	68.58	ED1885-ND◆†	2.50	2.25	2.00
	10	76.20	ED1886-ND◆†	2.77	2.50	2.22
	11	83.82	ED1887-ND◆†	3.05	2.75	2.44
	12	91.44	ED1888-ND†	3.33	3.00	2.67
	14	106.68	ED1890-ND◆†	3.88	3.50	3.11
	16	121.92	ED1891-ND†	4.44	4.00	3.55
Keying Star			ED1901-ND	.95	.86	.76
Keying Star			ED1902-ND◆	.95	.86	.76

◆ ***RoHS Compliant*** § Use Keying Star ED1901-ND
† Use Keying Star ED1902-ND ‡ Drawing shows 5.08 pitch

Weidmüller Terminal Blocks

Dimensions in mm

Fig. 1 – LM 3.5/90

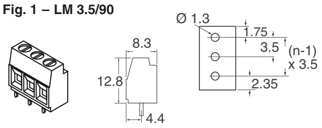

Specifications: • Screw clamp • UL: 300V @ 10A • 14AWG • Pin length: 4.5mm

Fig. 2 – LM 3.5/135

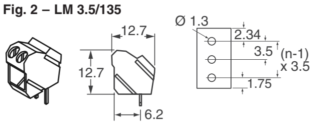

Specifications: • Screw clamp • UL: 300V @ 10A • 14AWG • Pin length: 4.5mm

Fig. 3 – LM2N 3.5/90

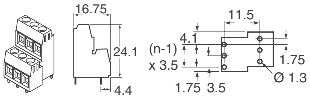

Specifications: • Screw clamp • UL: 300V @ 10A • 14AWG • Pin length: 4.5mm

Fig. 4 – LSF-SMT 3.5/135, 3.81/135, 5.08/135 and 5.00/135

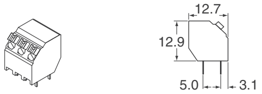

Specifications: • Spring connection • UL: 300V @ 10A • 16AWG • Pin length: 1.5mm

Fig. 5 – LSF-SMT 3.5/180, 3.81/180, 5.00/180 and 5.08/180

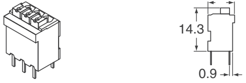

Specifications: • Spring connection • UL: 300V @ 10A • 16AWG • Pin length: 3.5mm

Fig. 6 – LSF-SMT 3.5/90, 3.81/90, 5.00/90 and 5.08/90

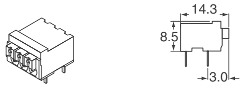

Specifications: • Spring connection • UL: 300V @ 16A • 16AWG • Pin length: 3.5mm

Fig. 7 – LP 5.00/180

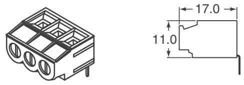

Specifications: • Screw clamp • UL: 300V @ 10A • 12AWG • Pin length: 3.2mm

Fig. 8 – LM 5.00/90

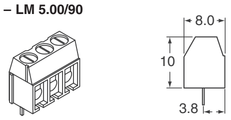

Specifications: • Screw clamp • UL: 300V @ 10A • 14AWG • Pin length: 3.5mm

Fig. 9 – LM 5.00/90

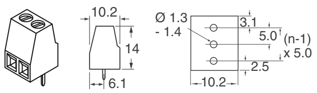

Specifications: • Screw clamp • UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 10 – LM 5.00/135

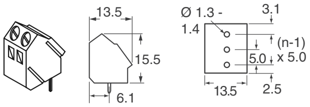

Specifications: • Screw clamp • UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 11 – LP 5.00/90

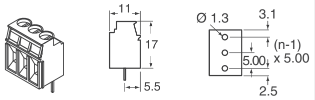

Specifications: • Screw clamp • UL: 300V @ 15A • 12AWG • Pin length: 4.5mm

Fig. 12 – LP 5.00/135

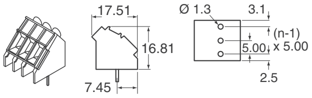

Specifications: • Screw clamp • UL: 300V @ 15A • 12AWG • Pin length: 4.5mm

Fig. 13 – LP 2N/5.00

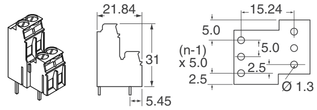

Specifications: • Screw clamp • UL: 300V @ 15A • 12AWG • Pin length: 4.5mm

Fig. 14 – LPP 5.00/90

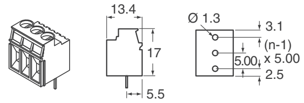

Specifications: • Screw clamp • UL: 300V @ 15A • 12AWG • Pin length: 4.5mm • Test point

Fig. 15 – LM 5.08/90

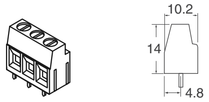

Specifications: • Screw clamp • UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 16 – LM 5.08/135

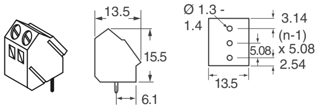

Specifications: • Screw clamp • UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 17 – LM 5.08/180

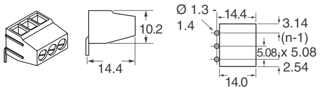

Specifications: • Screw clamp • UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 18 – LM2N 5.08/90

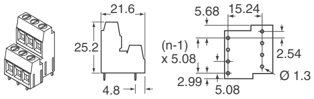

Specifications: • Screw clamp • UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 19 – LM3R 5.08/90

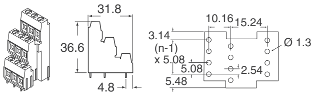

Specifications: • Screw clamp • UL: 300V @ 10A • 12AWG • Pin length: 3.5mm

Fig. 20 – LP 5.08/90

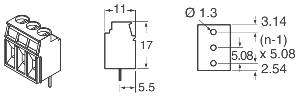

Specifications: • Screw clamp • UL: 300V @ 15A • 12AWG • Pin length: 4.5mm

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
3.50mm Pin Spacing – PCB Terminal Blocks — RoHS Compliant							
1	2	Black	281-1400-ND	.92	.84	.74	1699670000
	3		281-1401-ND	1.40	1.27	1.13	1699680000
	4		281-1402-ND	1.96	1.77	1.57	996770
	6		281-1403-ND	2.93	2.64	2.35	996772
	8		281-1404-ND	3.89	3.51	3.12	996774
	10	Black	281-1405-ND	4.90	4.41	3.92	996776
	12		281-1406-ND	5.85	5.27	4.69	996778
2	2	Black	281-1407-ND	1.10	.99	.89	1715010000
	3		281-1408-ND	1.64	1.48	1.32	1715050000
	4		281-1409-ND	2.20	1.98	1.77	999568
	6		281-1410-ND	3.27	2.95	2.62	999570
	8		281-1411-ND	4.39	3.95	3.51	999572
	10	Black	281-1412-ND	5.45	4.91	4.37	999574
	12		281-1413-ND	6.55	5.90	5.25	999576
3	4	Black	281-1670-ND	2.93	2.64	2.35	1720000000
	6		281-1671-ND	4.40	3.97	3.53	1720010000
	10		281-1673-ND	7.33	6.61	5.87	1720030000
	12		281-1674-ND	8.79	7.91	7.03	1720040000
	16		281-1675-ND	11.74	10.57	9.39	1720060000
	20	Black	281-1676-ND	14.67	13.21	11.74	1720080000
	24		281-1677-ND	17.60	15.85	14.09	1720100000
4	2	Black	281-2064-ND	.56	.51	.45	1885180000
	3		281-2065-ND	.84	.76	.67	1885190000
	4		281-2066-ND	1.10	.99	.88	1885200000
	5		281-2067-ND	1.38	1.24	1.11	1885210000
	6		281-2068-ND	1.66	1.49	1.33	1885220000
	7	Black	281-2069-ND	1.93	1.75	1.55	1885230000
	8		281-2070-ND	2.21	2.00	1.77	1885240000
	9		281-2071-ND	2.49	2.25	2.00	1885250000
	10		281-2072-ND	2.77	2.50	2.22	1885260000
	11		281-2073-ND	3.03	2.73	2.43	1885270000
	12	Black	281-2074-ND	3.31	2.98	2.65	1885280000
	13		281-2075-ND	3.59	3.24	2.88	1885290000
	14		281-2076-ND	3.87	3.49	3.10	1885300000
	15		281-2077-ND	4.15	3.74	3.32	1885310000
	16		281-2078-ND	4.43	3.99	3.55	1885320000
	17	Black	281-2079-ND	4.69	4.22	3.76	1885330000
	18		281-2080-ND	4.97	4.47	3.98	1885340000
	19		281-2081-ND	5.23	4.71	4.19	1885350000
	20		281-2082-ND	5.51	4.96	4.41	1885360000
	21		281-2083-ND	5.79	5.21	4.63	1885370000
	22	Black	281-2084-ND	6.07	5.46	4.86	1885380000
	23		281-2085-ND	6.34	5.71	5.08	1885390000
	24		281-2086-ND	6.61	5.95	5.29	1885400000
5	2	Black	281-2042-ND	.54	.49	.44	1825640000
	3		281-2043-ND	.82	.74	.66	1825650000
	4		281-2044-ND	1.07	.97	.86	1825660000
	5		281-2045-ND	1.35	1.22	1.08	1825670000
	6		281-2046-ND	1.61	1.45	1.29	1825680000
	7	Black	281-2047-ND	1.95	1.76	1.56	1825690000
	8		281-2048-ND	2.15	1.94	1.73	1825700000
	9		281-2049-ND	2.41	2.18	1.94	1825710000
	10		281-2050-ND	2.69	2.43	2.16	1825720000
	11		281-2051-ND	2.96	2.66	2.37	1825730000
	12		281-2052-ND	3.23	2.91	2.59	1825740000
6	2	Black	281-2020-ND	.63	.58	.51	1824420000
	3		281-2021-ND	.82	.74	.66	1824430000
	4		281-2022-ND	1.07	.97	.86	1824440000
	6		281-2024-ND	1.61	1.45	1.29	1824460000
	7		281-2025-ND	1.89	1.70	1.51	1824470000
	8	Black	281-2026-ND	2.15	1.94	1.73	1824480000
	9		281-2027-ND	2.41	2.18	1.94	1824490000
	10		281-2028-ND	2.69	2.43	2.16	1824500000
	11		281-2029-ND	2.96	2.66	2.37	1824510000
	12		281-2030-ND	3.23	2.91	2.59	1824520000
3.81mm Pin Spacing – PCB Terminal Blocks — RoHS Compliant							
4	2	Black	281-2087-ND	.56	.51	.45	1885410000
	3		281-2088-ND	.84	.76	.67	1885420000
	4		281-2089-ND	1.10	.99	.88	1885430000
	5		281-2090-ND	1.38	1.24	1.11	1885440000
	6		281-2091-ND	1.66	1.49	1.33	1885450000
	7	Black	281-2092-ND	1.93	1.75	1.55	1885460000
	8		281-2093-ND	2.21	2.00	1.77	1885470000
	9		281-2094-ND	2.49	2.25	2.00	1885480000
	10		281-2095-ND	2.77	2.50	2.22	1885490000
	11		281-2096-ND	3.03	2.73	2.43	1885510000
	12	Black	281-2097-ND	3.31	2.98	2.65	1885520000
	13		281-2098-ND	3.59	3.24	2.88	1885530000
	14		281-2099-ND	3.87	3.49	3.10	1885540000
	15		281-2100-ND	4.15	3.74	3.32	1885550000
	16		281-2101-ND	4.43	3.99	3.55	1885560000
	17	Black	281-2102-ND	4.69	4.22	3.76	1885570000
	18		281-2103-ND	4.97	4.47	3.98	1885580000
	19		281-2104-ND	5.23	4.71	4.19	1885590000
	20		281-2105-ND	5.51	4.96	4.41	1885600000
	21		281-2106-ND	5.79	5.21	4.63	1885610000
	22	Black	281-2107-ND	6.07	5.46	4.86	1885620000
	23		281-2108-ND	6.34	5.71	5.08	1885630000
	24		281-2109-ND	6.61	5.95	5.29	1885640000
5	2	Black	281-2053-ND	.54	.49	.44	1825790000
	3		281-2054-ND	.87	.78	.70	1825800000
	4		281-2055-ND	1.07	.97	.86	1825810000
	5		281-2056-ND	1.35	1.22	1.08	1825820000
	6		281-2057-ND	1.61	1.45	1.29	1825830000
	7	Black	281-2058-ND	1.89	1.70	1.51	1825840000
	8		281-2059-ND	2.15	1.94	1.73	1825850000
	9		281-2060-ND	2.41	2.18	1.94	1825870000
	10		281-2061-ND	2.69	2.43	2.16	1825880000
	11		281-2062-ND	2.96	2.66	2.37	1825890000
	12		281-2063-ND	3.23	2.91	2.59	1825920000
6	2	Black	281-2031-ND	.57	.52	.46	1824620000
	3		281-2032-ND	.82	.74	.66	1824630000
	4		281-2033-ND	1.07	.97	.86	1824640000
	5		281-2034-ND	1.35	1.22	1.08	1824650000
	6		281-2035-ND	1.61	1.45	1.29	1824660000
	7	Black	281-2036-ND	1.89	1.70	1.51	1824690000
	8		281-2037-ND	2.15	1.94	1.73	1824700000
	9		281-2038-ND	2.41	2.18	1.94	1824710000
	10		281-2039-ND	2.69	2.43	2.16	1824720000
	11		281-2040-ND	2.96	2.66	2.37	1824730000
	12		281-2041-ND	3.23	2.91	2.59	1825300000
5.00mm Pin Spacing – PCB Terminal Blocks							
4	2	Black	281-2138-ND◆	.56	.51	.45	1884530000
	3		281-2139-ND◆	.84	.76	.67	1884540000
	4		281-2140-ND◆	1.10	.99	.88	1884550000
	5		281-2141-ND◆	1.38	1.24	1.11	1884560000
	6		281-2142-ND◆	1.66	1.49	1.33	1884570000
	7	Black	281-2143-ND◆	1.93	1.75	1.55	1884580000
	8		281-2144-ND◆	2.21	2.00	1.77	1884590000
	9		281-2145-ND◆	2.49	2.25	2.00	1884600000
	10		281-2146-ND◆	2.77	2.50	2.22	1884660000
	11		281-2147-ND◆	3.03	2.73	2.43	1884670000
	12	Black	281-2148-ND◆	3.31	2.98	2.65	1884680000
	13		281-2149-ND◆	3.59	3.24	2.88	1884690000
	14		281-2150-ND◆	3.87	3.49	3.10	1884700000
	15		281-2151-ND◆	4.15	3.74	3.32	1884710000
	16		281-2152-ND◆	4.43	3.99	3.55	1884720000
5	2	Black	281-2124-ND◆	.54	.49	.44	1825960000
	3		281-2125-ND◆	.82	.74	.66	1825970000
	4		281-2126-ND◆	1.07	.97	.86	1825980000
	5		281-2127-ND◆	1.35	1.22	1.08	1825990000
	6		281-2128-ND◆	1.61	1.45	1.29	1826000000
	7	Black	281-2129-ND◆	1.89	1.70	1.51	1826010000
	8		281-2130-ND◆	2.15	1.94	1.73	1826020000

◆ ***RoHS Compliant*** † Bus Version ***NOTE:*** All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

(Continued)

Dimensions in mm

Fig. 21 – LP 5.08/135

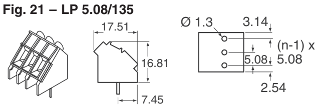

Specifications: • Screw clamp • UL: 300V @ 15A • 12AWG • Pin length: 4.5mm

Fig. 22 – LP 2N/5.08

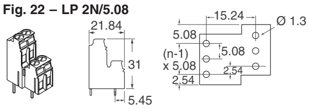

Specifications: • Screw clamp • UL: 300V @ 15A • 12AWG • Pin length: 4.5mm

Fig. 23 – PM 5.08/90

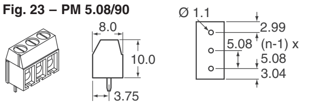

Specifications: • Leaf spring screw clamp • UL: 300V @ 16A • 14AWG • Pin length: 3.5mm

Fig. 24 – LMZF 5.08/90

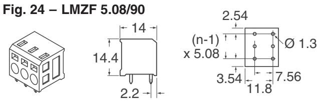

Specifications: • Tension clamp • UL: 300V @ 10A • 14AWG • Pin length: 4.1mm

Fig. 25 – SL 3.5/180/...G

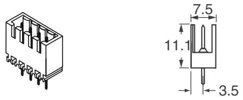

Specifications:
• UL: 300V @ 10A • Pin length: 4.5mm

Fig. 26 – SL 3.5/180/...F

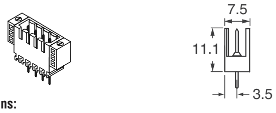

Specifications:
• UL: 300V @ 10A • Pin length: 4.5mm

Fig. 27 – SL 3.5/90/...G

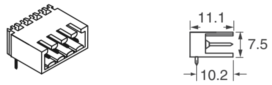

Specifications:
• UL: 300V @ 10A • Pin length: 4.5mm

Fig. 28 – SL 3.5/90/...F

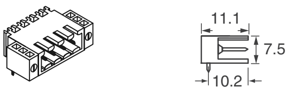

Specifications:
• UL: 300V @ 10A • Pin length: 4.5mm

Fig. 29 – SL 3.81/180G

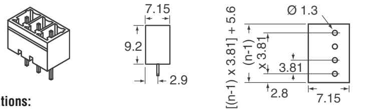

Specifications:
• UL: 300V @ 8A • Pin length: 3.5mm

Fig. 30 – SL 3.81/180F

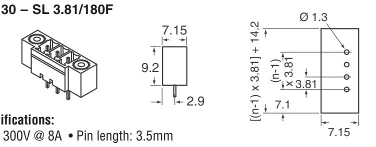

Specifications:
• UL: 300V @ 8A • Pin length: 3.5mm

Fig. 31 – SL3.81/90G

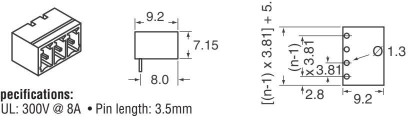

Specifications:
• UL: 300V @ 8A • Pin length: 3.5mm

Fig. 32 – SL 3.81/90F

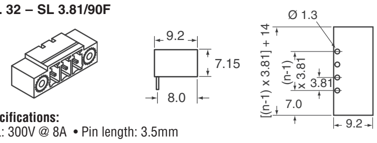

Specifications:
• UL: 300V @ 8A • Pin length: 3.5mm

Fig. 33 – SL 5.00/180/...B

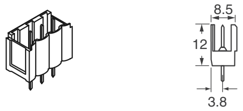

Specifications:
• UL: 300V @ 15A • Pin length: 4.5mm

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
6	2	Black	281-2110-ND◆	.63	.58	.51	1824740000
	3		281-2111-ND◆	.82	.74	.66	1824750000
	4		281-2112-ND◆	1.07	.97	.86	1824760000
	5		281-2113-ND◆	1.35	1.22	1.08	1824770000
	6		281-2114-ND◆	1.61	1.45	1.29	1824780000
	7	Black	281-2115-ND◆	1.89	1.70	1.51	1824790000
	8		281-2116-ND◆	2.15	1.94	1.73	1824800000
7	2	Black	281-2176-ND◆	1.02	.92	.82	1761330000
	3		281-2177-ND◆	1.53	1.38	1.23	1761340000
8	3	Orange	281-2169-ND◆	.65	.59	.53	1791620000
9	2	Black	281-1414-ND◆	.77	.69	.62	1715250000
	3		281-1415-ND◆	1.15	1.04	.92	1715260000
	4		281-1416-ND◆	1.51	1.37	1.22	999330
	6		281-1417-ND◆	2.26	2.04	1.82	999332
	8		281-1418-ND◆	3.01	2.72	2.42	999334
	10	Black	281-1419-ND◆	3.75	3.38	3.00	999336
	12		281-1420-ND◆	4.51	4.07	3.61	999338
10	2	Black	281-1421-ND◆	.83	.75	.67	1715290000
	3		281-1422-ND◆	1.23	1.11	.99	1715300000
	4		281-1423-ND◆	1.64	1.48	1.32	999351
	6		281-1424-ND◆	2.46	2.21	1.97	999353
	8		281-1425-ND◆	3.28	2.96	2.63	999355
	10	Black	281-1426-ND◆	3.91	3.52	3.13	999357
	12		281-1427-ND◆	4.91	4.42	3.93	999359
11	2	Black	281-1876-ND◆	1.00	.91	.81	1696060000
	3		281-1877-ND◆	1.47	1.32	1.18	1696070000
12	2	Black	281-1880-ND◆	1.05	.95	.85	1697180000
	3		281-1881-ND◆	1.59	1.44	1.28	1697190000
13	4	Orange	281-1456-ND◆	2.52	2.27	2.02	1635170000
	6		281-1457-ND◆	3.79	3.42	3.04	1625570000
	8		281-1458-ND	5.02	4.52	4.02	1596440000
	10		281-1459-ND◆	5.93	5.34	4.74	1596480000
14	2	Black	281-1878-ND	1.45	1.31	1.17	1697140000
	3		281-1879-ND	2.14	1.93	1.71	1697150000
5.08mm Pin Spacing – PCB Terminal Blocks							
4	2	Black	281-2153-ND◆	.56	.51	.45	1884730000
	3		281-2154-ND◆	.84	.76	.67	1884740000
	4		281-2155-ND◆	1.10	.99	.88	1884750000
	5		281-2156-ND◆	1.38	1.24	1.11	1884760000
	6		281-2157-ND◆	1.66	1.49	1.33	1884770000
	7	Black	281-2158-ND◆	1.93	1.75	1.55	1884780000
	8		281-2159-ND◆	2.21	2.00	1.77	1884790000
	9		281-2160-ND◆	2.49	2.25	2.00	1884800000
	10		281-2161-ND◆	2.77	2.50	2.22	1884810000
	11		281-2162-ND◆	3.03	2.73	2.43	1884820000
	12	Black	281-2163-ND◆	3.31	2.98	2.65	1884830000
	13		281-2164-ND◆	3.59	3.24	2.88	1884840000
	14		281-2165-ND◆	3.87	3.49	3.10	1884850000
	15		281-2166-ND◆	4.15	3.74	3.32	1884860000
	16		281-2167-ND◆	4.43	3.99	3.55	1884870000
5	2	Black	281-2131-ND◆	.54	.49	.44	1826040000
	3		281-2132-ND◆	.87	.78	.70	1826060000
	4		281-2133-ND◆	1.07	.97	.86	1826070000
	5		281-2134-ND◆	1.35	1.22	1.08	1826080000
	6		281-2135-ND◆	1.70	1.54	1.37	1826100000
	7	Black	281-2136-ND◆	1.89	1.70	1.51	1826110000
	8		281-2137-ND◆	2.15	1.94	1.73	1826120000
6	2	Black	281-2117-ND◆	.54	.49	.44	1824810000
	3		281-2118-ND◆	.82	.74	.66	1824820000
	4		281-2119-ND◆	1.07	.97	.86	1824830000
	5		281-2120-ND◆	1.35	1.22	1.08	1824840000
	6		281-2121-ND◆	1.61	1.45	1.29	1824850000
	7		281-2122-ND◆	1.95	1.76	1.56	1824860000
	8		281-2123-ND◆	2.24	2.02	1.80	1824870000

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
15	2	Black	281-1435-ND◆	.77	.69	.62	1716020000
	3		281-1436-ND◆	1.15	1.04	.92	1716030000
	4		281-1437-ND◆	1.51	1.37	1.22	999392
	6		281-1438-ND◆	2.26	2.04	1.82	999394
	8		281-1439-ND◆	3.01	2.72	2.42	999396
	10	Black	281-1440-ND◆	3.75	3.38	3.00	999398
	12		281-1441-ND◆	4.51	4.07	3.61	999400
16	2	Black	281-1442-ND◆	.83	.75	.67	1716060000
	3		281-1443-ND◆	1.23	1.11	.99	1716070000
	4		281-1444-ND◆	1.64	1.48	1.32	999434
	6		281-1445-ND◆	2.46	2.21	1.97	999436
	8		281-1446-ND◆	3.28	2.96	2.63	999438
	10	Black	281-1447-ND◆	4.08	3.68	3.27	999440
	12		281-1448-ND◆	4.91	4.42	3.93	999442
17	2	Black	281-1449-ND◆	.83	.75	.67	1716040000
	3		281-1450-ND◆	1.23	1.11	.99	1716050000
	4		281-1451-ND◆	1.64	1.48	1.32	999476
	6		281-1452-ND	2.46	2.21	1.97	999478
	8		281-1453-ND◆	3.28	2.96	2.63	999480
	10	Black	281-1454-ND◆	4.08	3.68	3.27	999482
	12		281-1455-ND	4.91	4.42	3.93	999484
18	4	Black	281-1564-ND◆	2.33	2.10	1.87	1769080000
	6		281-1565-ND◆	3.51	3.16	2.81	1769090000
	8		281-1566-ND◆	4.67	4.21	3.74	1769100000
	10		281-1567-ND◆	5.84	5.26	4.67	1769110000
	12		281-1568-ND	6.98	6.29	5.59	1769120000
	16	Black	281-1569-ND◆	9.34	8.41	7.48	1769140000
	20		281-1570-ND◆	11.69	10.52	9.36	1769160000
	24		281-1571-ND◆	14.00	12.60	11.20	1769180000
19	6	Black	281-1572-ND◆	4.13	3.72	3.31	1769930000
	9		281-1573-ND◆	6.15	5.54	4.93	1769940000
	12		281-1574-ND◆	8.21	7.40	6.57	1769950000
	15		281-1575-ND◆	10.27	9.25	8.22	1769960000
	18		281-1576-ND	12.31	11.08	9.85	1769970000
	24	Black	281-1577-ND◆	16.41	14.77	13.13	1769990000
	30		281-1578-ND	20.51	18.46	16.41	1770010000
	36		281-1579-ND◆	24.60	22.15	19.69	1770030000
20	2	Black	281-1870-ND◆	1.00	.91	.81	1696040000
	3		281-1871-ND◆	1.47	1.32	1.18	1696050000
21	2	Black	281-1874-ND◆	1.05	.95	.85	1676740000
	3		281-1875-ND	1.59	1.44	1.28	1676750000
22	4	Orange	281-1461-ND◆	2.52	2.27	2.02	1635150000
	6		281-1462-ND◆	3.79	3.42	3.04	1625550000
	8		281-1463-ND◆	5.02	4.52	4.02	1596470000
	10		281-1464-ND◆	6.30	5.67	5.04	1596500000
	12		281-1465-ND◆	7.54	6.79	6.04	1632560000
23	2	Black	281-1882-ND◆	.45	.41	.36	1760510000
	3		281-1883-ND◆	.65	.59	.53	1760520000
24	2	Black	281-1678-ND◆	.91	.82	.73	1721640000
	3		281-1679-ND◆	1.28	1.15	1.03	1721650000
	4		281-1680-ND◆	1.69	1.53	1.36	1721660000
	5		281-1681-ND◆	2.09	1.88	1.68	1721670000
	6		281-1682-ND◆	2.41	2.17	1.93	1721680000
	8	Black	281-1683-ND◆	3.11	2.80	2.49	1721700000
	10		281-1684-ND◆	3.94	3.55	3.16	1721720000
	12		281-1685-ND◆	4.69	4.22	3.76	1721740000
3.50mm Pitch Omnimate – PCB Pin Headers — RoHS Compliant							
25	2	Black	281-1144-ND	.62	.56	.50	1614240000
	3		281-1145-ND	.93	.84	.75	1616020000
	4		281-1146-ND	1.27	1.15	1.02	1616030000
	6		281-1147-ND	1.87	1.69	1.50	1616050000
	8		281-1148-ND	2.51	2.26	2.01	1614250000
	10		281-1149-ND	3.13	2.82	2.51	1616080000

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
25	12	Black	281-1150-ND	3.74	3.37	3.00	1616100000
	16		281-1151-ND	4.97	4.47	3.98	1614260000
	24		281-1152-ND	7.46	6.72	5.97	1618680000
26	2	Black	281-1153-ND	.73	.66	.59	1616140000
	3		281-1154-ND	1.08	.98	.87	1616150000
	4		281-1155-ND	1.44	1.30	1.16	1616160000
	6		281-1156-ND	2.17	1.95	1.74	1616180000
	8		281-1157-ND	2.88	2.59	2.31	1614270000
	10	Black	281-1158-ND	3.59	3.24	2.88	1616210000
	12		281-1159-ND	4.29	3.86	3.43	1616230000
	16		281-1160-ND	5.73	5.16	4.58	1616270000
	24		281-1161-ND	8.57	7.72	6.86	1618980000
27	2	Black	281-1117-ND	.62	.56	.50	1614160000
	3		281-1118-ND	.93	.84	.75	1615420000
	4		281-1119-ND	1.27	1.15	1.02	1615430000
	6		281-1120-ND	1.87	1.69	1.50	1615440000
	8		281-1121-ND	2.51	2.26	2.01	1614180000
	10	Black	281-1122-ND	3.13	2.82	2.51	1615470000
	12		281-1123-ND	3.67	3.30	2.94	1615490000
	16		281-1124-ND	4.97	4.47	3.98	1614190000
	24		281-1125-ND	7.46	6.72	5.97	1618050000
28	2	Black	281-1126-ND	.73	.66	.59	1615530000
	3		281-1127-ND	1.08	.98	.87	1615540000
	4		281-1128-ND	1.44	1.30	1.16	1615550000
	6		281-1129-ND	2.17	1.95	1.74	1615570000
	8		281-1130-ND	2.88	2.59	2.31	1614200000
	10	Black	281-1131-ND	3.59	3.24	2.88	1615600000
	12		281-1132-ND	4.29	3.86	3.43	1615620000
3.81mm Pitch Omnimate – PCB Pin Headers							
29	2	Green	281-1948-ND◆	.62	.56	.50	1793610000
	3		281-1949-ND	.93	.84	.75	1793620000
	4		281-1950-ND◆	1.27	1.15	1.02	1793630000
	5		281-1951-ND◆	1.56	1.41	1.26	1793640000
	6		281-1952-ND◆	1.87	1.69	1.50	1793650000
	8	Green	281-1953-ND◆	2.51	2.26	2.01	1793660000
	10		281-1954-ND	3.13	2.82	2.51	1793670000
	12		281-1955-ND	3.74	3.37	3.00	1793680000
	16		281-1956-ND◆	4.97	4.47	3.98	1793690000
30	2	Green	281-1957-ND◆	.73	.66	.59	1793790000
	3		281-1958-ND◆	1.08	.98	.87	1793800000
	4		281-1959-ND◆	1.44	1.30	1.16	1793810000
	5		281-1960-ND◆	1.76	1.59	1.42	1793820000
	6		281-1961-ND◆	2.17	1.95	1.74	1793830000
	8	Green	281-1962-ND◆	2.88	2.59	2.31	1793840000
	10		281-1963-ND	3.59	3.24	2.88	1793850000
	12		281-1964-ND	4.29	3.86	3.43	1793860000
31	2	Green	281-1930-ND◆	.62	.56	.50	1793240000
	3		281-1931-ND◆	.93	.84	.75	1793250000
	4		281-1932-ND	1.27	1.15	1.02	1793260000
	5		281-1933-ND◆	1.56	1.41	1.26	1793270000
	6		281-1934-ND◆	1.87	1.69	1.50	1793280000
	8	Green	281-1935-ND	2.51	2.26	2.01	1793290000
	10		281-1936-ND◆	3.13	2.82	2.51	1793300000
	12		281-1937-ND	3.67	3.30	2.94	1793310000
	16		281-1938-ND	4.97	4.47	3.98	1793320000
32	2	Green	281-1939-ND◆	.73	.66	.59	1793420000
	3		281-1940-ND◆	1.08	.98	.87	1793430000
	4		281-1941-ND◆	1.44	1.30	1.16	1793440000
	5		281-1942-ND◆	1.81	1.63	1.45	1793450000
	6		281-1943-ND◆	2.17	1.95	1.74	1793460000
	8	Green	281-1944-ND◆	2.88	2.59	2.31	1793470000
	10		281-1945-ND◆	3.59	3.24	2.88	1793480000
	12		281-1946-ND◆	4.29	3.86	3.43	1793490000
	16		281-1947-ND	5.73	5.16	4.58	1793500000

◆ ***RoHS Compliant*** † Bus Version ***NOTE:*** All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks. *(Continued)*

Dimensions in mm

Fig. 34 – SL 5.00/90/..B

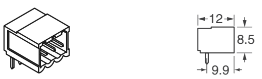

Specifications: • UL: 300V @ 15A • Pin length: 4.5mm

Fig. 35 – SL 5.08/180/..B

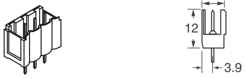

Specifications: • UL: 300V @ 15A • Pin length: 4.5mm

Fig. 36 – SLD 5.08V/180B

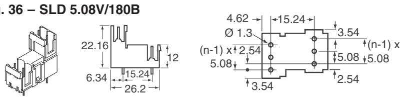

Specifications: • UL: 300V @ 15A • Pin length: 4.5mm

Fig. 37 – SL 5.08/90

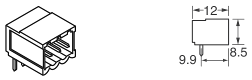

Specifications: • UL: 300V @ 15A • Pin length: 4.5mm

Fig. 38 – SLD 5.08V/90B

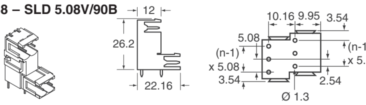

Specifications: • UL: 300V @ 15A • Pin length: 4.5mm

Fig. 39 – BLL 5.08/180

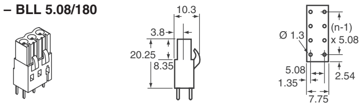

Specifications: • Solder connection • UL: 300V @ 15A • Pin length: 4.5mm

Fig. 40 – BLL 5.08/90

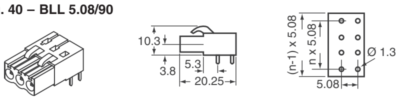

Specifications: • Solder connection • UL: 300V @ 15A • Pin length: 4.5mm

Fig. 41 – S2L 3.5/180 - Double Density

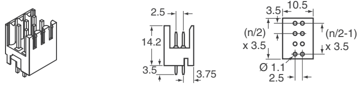

Specifications: • UL: 150V @ 5A • Pin length: 3.5mm

Fig. 42 – S2L 3.5/180G - Double Density

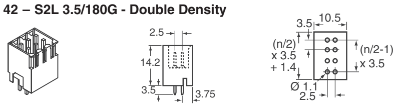

Specifications: • UL: 150V @ 5A • Pin length: 3.5mm

Fig. 43 – S2L 3.5/180F - Double Density

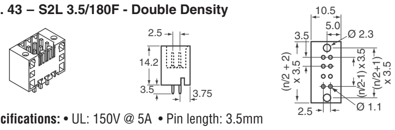

Specifications: • UL: 150V @ 5A • Pin length: 3.5mm

Fig. 44 – S2L 3.5/90 - Double Density

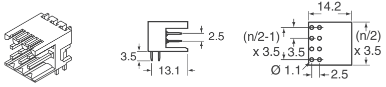

Specifications: • UL: 150V @ 5A • Pin length: 3.5mm

Fig. 45 – S2L 3.5/90G - Double Density

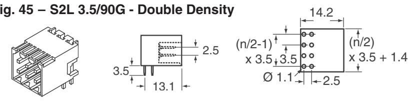

Specifications: • UL: 150V @ 5A • Pin length: 3.5mm

Fig. 46 – S2L 3.5/90F - Double Density

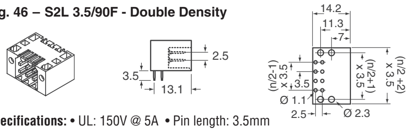

Specifications: • UL: 150V @ 5A • Pin length: 3.5mm

Fig. 47 – B2L 3.5

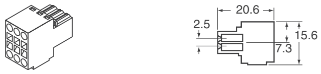

Specifications: • Tension clamp • UL: 150V @ 5A • 16AWG

Fig. 48 – B2L 3.5F

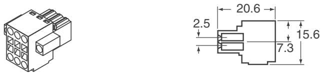

Specifications: • Tension clamp • UL: 150V @ 5A • 16AWG

Fig. 49 – B2L 3.5LH

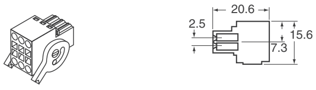

Specifications: • Tension clamp • UL: 150V @ 5A • 16AWG

Fig. 50 – BL 3.5

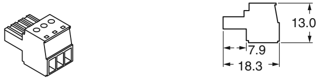

Specifications: • Screw clamp • UL: 300V @ 10A • 14AWG

Fig. 51 – BL 3.5/..F

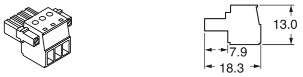

Specifications: • Screw clamp • UL: 300V @ 10A • 14AWG

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
5.00mm Pitch Omnimate – PCB Pin Headers — RoHS Compliant							
33	2	Black	281-1234-ND	.53	.48	.42	1626620000
	3		281-1235-ND	.79	.71	.61	1626630000
	4		281-1236-ND	1.02	.92	.79	1596130000
	6		281-1237-ND	1.50	1.35	1.16	1626650000
	8		281-1238-ND	2.05	1.84	1.59	1596140000
	10	Black	281-1239-ND	2.50	2.24	1.93	1626680000
	12		281-1240-ND	3.05	2.73	2.35	1603310000
	16		281-1241-ND	4.07	3.65	3.14	1626730000
	24		281-1242-ND	5.94	5.33	4.58	1626810000
34	2	Black	281-1216-ND	.53	.48	.42	1626210000
	3		281-1217-ND	.79	.71	.61	1626220000
	4		281-1218-ND	1.04	.94	.81	1596150000
	6		281-1219-ND	1.50	1.35	1.16	1626240000
	8		281-1220-ND	1.99	1.79	1.54	1626250000
	10	Black	281-1221-ND	2.54	2.28	1.96	1596170000
	12		281-1222-ND	3.05	2.73	2.35	1603320000
	16		281-1223-ND	4.07	3.65	3.14	1603330000
5.08mm Pitch Omnimate – PCB Pin Headers — RoHS Compliant							
35	2	Black	281-1297-ND	.53	.48	.42	1524110000
	3		281-1298-ND	.79	.71	.61	1524210000
	4		281-1299-ND	1.04	.94	.81	1524310000
	6		281-1300-ND	1.54	1.39	1.20	1524510000
	8		281-1301-ND	2.05	1.84	1.59	1524710000
	10	Black	281-1302-ND	2.54	2.28	1.96	1524910000
	12		281-1303-ND	3.05	2.73	2.35	1525110000
	16		281-1304-ND	4.07	3.65	3.14	1525510000
36	4	Black	281-1893-ND	2.01	1.81	1.61	1726970000
	6		281-1894-ND	3.02	2.72	2.42	1726980000
	8		281-1895-ND	4.01	3.61	3.21	1726990000
	10		281-1896-ND	5.02	4.52	4.02	1727000000
	16		281-1898-ND	8.00	7.21	6.41	1727030000
	24	Black	281-1899-ND	11.42	10.28	9.14	1727070000
	32		281-1900-ND	16.04	14.44	12.84	1727110000
37	2	Black	281-1279-ND	.53	.48	.42	1514910000
	3		281-1280-ND	.79	.71	.61	1515010000
	4		281-1281-ND	1.04	.94	.81	1515110000
	6		281-1282-ND	1.54	1.39	1.20	1515310000
	8		281-1283-ND	2.05	1.84	1.59	1515510000
	10	Black	281-1284-ND	2.54	2.28	1.96	1515710000
	12		281-1285-ND	3.05	2.73	2.35	1515910000
	16		281-1286-ND	4.07	3.65	3.14	1516310000
38	4	Black	281-1884-ND	2.01	1.81	1.61	1726510000
	6		281-1885-ND	3.02	2.72	2.42	1726520000
	8		281-1886-ND	4.01	3.61	3.21	1726530000
	10		281-1887-ND	5.02	4.52	4.02	1726540000
38	12	Black	281-1888-ND	5.72	5.15	4.58	1726550000
	16		281-1889-ND	8.00	7.21	6.41	1726570000
	24		281-1890-ND	12.01	10.82	9.62	1726610000
	32		281-1891-ND	16.04	14.44	12.84	1726650000
	48		281-1892-ND	24.06	21.66	19.25	1726730000
5.08mm Pitch Omnimate – PCB Socket Headers — RoHS Compliant							
39	2	Black	281-1745-ND	1.42	1.28	1.14	1646250000
	3		281-1746-ND	2.13	1.92	1.71	1646260000
	4		281-1747-ND	2.84	2.56	2.28	1646270000
	6		281-1748-ND	4.26	3.84	3.42	1646290000
	8		281-1749-ND	5.65	5.09	4.53	1646310000
	10	Black	281-1750-ND	7.06	6.36	5.65	1646330000
	12		281-1751-ND	8.48	7.63	6.79	1646350000
	16		281-1752-ND	11.30	10.18	9.05	1649170000
	24		281-1753-ND	16.08	14.48	12.87	1649250000
40	2	Black	281-1736-ND	1.42	1.28	1.14	1646030000
	4		281-1738-ND	2.84	2.56	2.28	1646050000
	8		281-1740-ND	5.65	5.09	4.53	1646090000
	10		281-1741-ND	7.06	6.36	5.65	1646110000
	12		281-1742-ND	8.48	7.63	6.79	1646130000
	16	Black	281-1743-ND	10.74	9.67	8.60	1648810000
	24		281-1744-ND	16.92	15.24	13.54	1648890000
3.50mm Minimate Double Density – PCB Pin Headers							
41	6	Black	281-1828-ND◆	1.92	1.73	1.54	1729270000
	8		281-1829-ND◆	2.57	2.32	2.06	1729280000
	10		281-1830-ND◆	3.22	2.90	2.58	1729290000
	12		281-1831-ND◆	3.85	3.47	3.09	1729300000
	20		281-1833-ND◆	6.41	5.77	5.13	1729340000
42	6	Black	281-1835-ND◆	1.92	1.73	1.54	1728950000
	8		281-1836-ND◆	2.57	2.32	2.06	1728960000
	10		281-1837-ND◆	3.22	2.90	2.58	1728970000
	12		281-1838-ND◆	3.85	3.47	3.09	1728980000
	16		281-1839-ND◆	5.12	4.61	4.10	1729000000
	20	Black	281-1840-ND◆	6.41	5.77	5.13	1729020000
	24		281-1841-ND◆	7.67	6.91	6.14	1729040000
43	6	Black	281-1842-ND◆	2.51	2.26	2.01	1729590000
	8		281-1843-ND◆	3.14	2.83	2.52	1729600000
	16		281-1846-ND◆	5.69	5.13	4.56	1729640000
	20		281-1847-ND◆	6.95	6.26	5.56	1729660000
	24		281-1848-ND◆	8.25	7.43	6.60	1729680000
44	6	Black	281-1807-ND◆	1.92	1.73	1.54	1728310000
	10		281-1809-ND◆	3.22	2.90	2.58	1728330000
	12		281-1810-ND◆	3.85	3.47	3.09	1728340000
	16		281-1811-ND◆	5.12	4.61	4.10	1728360000
	24		281-1813-ND◆	7.67	6.91	6.14	1728400000
45	6	Black	281-1814-ND◆	1.92	1.73	1.54	1727990000
	8		281-1815-ND◆	2.57	2.32	2.06	1728000000
	10		281-1816-ND◆	3.22	2.90	2.58	1728010000
	12		281-1817-ND◆	3.85	3.47	3.09	1728020000
	16		281-1818-ND◆	5.12	4.61	4.10	1728040000
	20	Black	281-1819-ND◆	6.41	5.77	5.13	1728060000
	24		281-1820-ND◆	7.67	6.91	6.14	1728080000
46	6	Black	281-1821-ND◆	2.51	2.26	2.01	1728630000
	8		281-1822-ND	3.14	2.83	2.52	1728640000
	10		281-1823-ND◆	3.79	3.42	3.04	1728650000
	12		281-1824-ND◆	4.41	3.97	3.53	1728660000
	16		281-1825-ND	5.69	5.13	4.56	1728680000
	20	Black	281-1826-ND◆	6.95	6.26	5.56	1728700000
	24		281-1827-ND◆	8.25	7.43	6.60	1728720000
3.50mm Minimate Double Density – Socket Blocks							
47	6	Black	281-1849-ND◆	5.94	5.35	4.76	1727640000
	8		281-1850-ND◆	7.91	7.12	6.33	1727650000
	10		281-1851-ND◆	9.87	8.89	7.90	1727660000
	12		281-1852-ND◆	11.82	10.64	9.46	1727670000
	16		281-1853-ND◆	15.81	14.24	12.66	1727690000
	20	Black	281-1854-ND◆	19.73	17.76	15.79	1727710000
	24		281-1855-ND◆	23.66	21.30	18.93	1747940000
48	6	Black	281-1856-ND◆	6.24	5.62	4.99	1748170000
	8		281-1857-ND◆	8.45	7.61	6.76	1748180000
	10		281-1858-ND	10.54	9.49	8.43	1748190000
	12		281-1859-ND◆	12.67	11.41	10.14	1748200000
	16		281-1860-ND◆	16.90	15.21	13.52	1748220000
	20	Black	281-1861-ND◆	21.09	18.98	16.88	1748240000
	24		281-1862-ND◆	25.34	22.81	20.28	1748260000
49	6	Black	281-1863-ND◆	7.61	6.86	6.09	1748490000
	8		281-1864-ND◆	9.76	8.79	7.82	1748500000
	10		281-1865-ND◆	11.90	10.71	9.52	1748510000
	12		281-1866-ND◆	14.06	12.66	11.26	1748520000
	16		281-1867-ND◆	18.38	16.55	14.71	1748540000
	20	Black	281-1868-ND◆	22.70	20.43	18.16	1748560000
	24		281-1869-ND◆	27.02	24.32	21.62	1748580000
3.50mm Omnimate – Socket Blocks							
50	2	Black	281-1054-ND◆	1.86	1.68	1.49	1615670000
	3		281-1055-ND◆	2.75	2.48	2.21	1615680000
	4		281-1056-ND◆	3.67	3.31	2.94	1615690000
	6		281-1057-ND◆	5.55	5.00	4.44	1610180000
	8		281-1058-ND◆	7.39	6.66	5.92	1615700000
	10	Black	281-1059-ND◆	8.92	8.04	7.14	1610200000
	12		281-1060-ND◆	11.07	9.96	8.86	1615730000
	16		281-1061-ND◆	14.74	13.27	11.80	1615770000
	24		281-1062-ND◆	22.07	19.87	17.66	1620440000
51	2	Black	281-1063-ND◆	1.94	1.75	1.56	1615780000
	3		281-1064-ND◆	2.91	2.62	2.33	1615790000
	4		281-1065-ND◆	3.88	3.49	3.11	1615800000

◆ ***RoHS Compliant*** † Bus Version ***NOTE:*** All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

(Continued)

Weidmüller Terminal Blocks *(Cont.)*

Dimensions in mm

Fig. 52 – BL 3.5/90

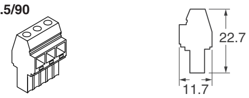

Specifications: • Screw clamp • UL: 300V @ 10A • 14AWG

Fig. 53 – BL 3.5/270

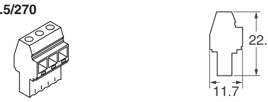

Specifications: • Screw clamp • UL: 300V @ 10A • 14AWG

Fig. 54 – BLIDC 3.5

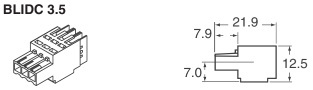

Specifications: • IDC connection • UL: 300V @ 7A • 20AWG

Fig. 55 – BLIDC 3.5F

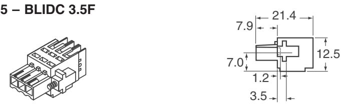

Specifications: • IDC connection • UL: 300V @ 7A • 20AWG

Fig. 56 – BL-I/O 3.5/10F

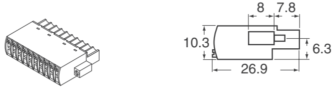

Specifications: • Push-in spring connection • UL: 50V @ 5A • 16AWG

Fig. 57 – BL-I/O 3.5/10F LED

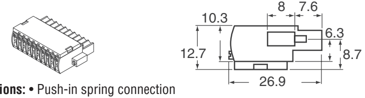

Specifications: • Push-in spring connection • UL: 24V @ 5A • 16AWG • Integrated LEDs

Fig. 58 – BL-I/O 3.5/10FP

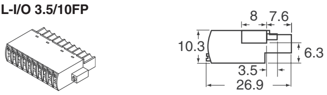

Specifications: • Field device connector • Push-in spring connection • UL: 50V @ 5A • 16AWG • Offset flanges

Fig. 59 – BL-I/O 3.5/10FP LED

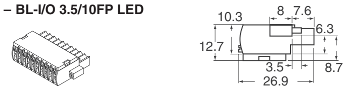

Specifications: • Field device connector • Push-in spring connection • UL: 24V @ 5A • 16AWG • Offset flanges • Integrated LEDs

Fig. 60 – BL-I/O 3.5/30F

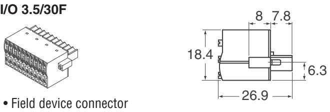

Specifications: • Field device connector • Push-in spring connection • UL: 50V @ 5A • 16AWG

Fig. 61 – BL-I/O 3.5/30F LED

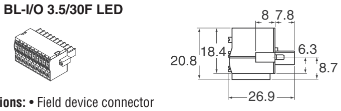

Specifications: • Field device connector • Push-in spring connection • UL: 24V @ 5A • 16AWG • Integrated LEDs

Fig. 62 – BL-I/O 3.5/30 FP

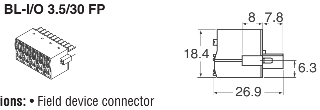

Specifications: • Field device connector • Push-in spring connection • UL: 50V @ 5A • 16AWG • Offset flanges

Fig. 63 – BL-I/O 3.5/30FP LED

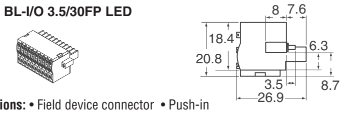

Specifications: • Field device connector • Push-in spring connection • UL: 24V @ 5A • 16AWG • Offset flanges • Integrated LEDs

Fig. 64 – BL3.81

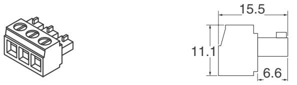

Specifications: • Clamping yoke • UL 300V @ 8A • 16AWG

Fig. 65 – BL 3.81F

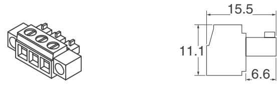

Specifications: • Clamping yoke • UL: 300V @ 8A • 16AWG

Fig. 66 – BL 3.81/90

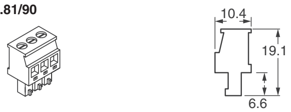

Specifications: • Clamping yoke • UL 300V @ 8A • 16AWG

Fig. 67 – BL 3.81/90F

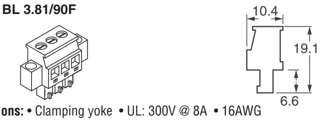

Specifications: • Clamping yoke • UL: 300V @ 8A • 16AWG

Fig. 68 – BL 3.81/270

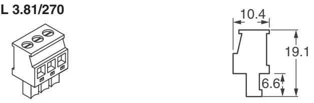

Specifications: • Clamping yoke • UL: 300V @ 8A •16AWG

Fig. 69 – BL 3.81/270F

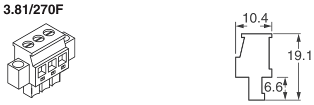

Specifications: • Clamping yoke • UL: 300V @ 8A •16AWG

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
51	6	Black	281-1066-ND◆	5.83	5.25	4.67	1615820000
	8		281-1067-ND◆	7.88	7.09	6.31	1615840000
	10		281-1068-ND◆	9.86	8.88	7.89	1615860000
	12		281-1069-ND◆	11.83	10.65	9.47	1615880000
	16		281-1070-ND◆	15.77	14.20	12.62	1615920000
	24		281-1071-ND◆	23.65	21.29	18.92	1620910000
52	2	Black	281-1018-ND◆	1.94	1.75	1.56	1638780000
	3		281-1019-ND	2.91	2.62	2.33	1638790000
	4		281-1020-ND◆	3.88	3.49	3.11	1638800000
	6		281-1021-ND◆	5.81	5.24	4.66	1638820000
	8		281-1022-ND◆	7.74	6.97	6.19	1638840000
	10	Black	281-1023-ND◆	9.66	8.70	7.73	1638860000
	12		281-1024-ND◆	11.60	10.44	9.28	1638880000
	16		281-1025-ND◆	15.46	13.92	12.37	1638920000
	24		281-1026-ND◆	23.20	20.88	18.56	1639000000
53	2	Black	281-1036-ND◆	1.94	1.75	1.56	1639700000
	3		281-1037-ND◆	2.91	2.62	2.33	1639710000
	4		281-1038-ND◆	3.88	3.49	3.11	1639720000
	8		281-1040-ND◆	7.74	6.97	6.19	1639760000
	10		281-1041-ND◆	9.66	8.70	7.73	1639780000
	12	Black	281-1042-ND	11.60	10.44	9.28	1639800000
	16		281-1043-ND◆	15.46	13.92	12.37	1639840000
	24		281-1044-ND◆	23.20	20.88	18.56	1639920000
54	2	Black	281-1702-ND◆	2.20	1.99	1.77	1770940000
	3		281-1703-ND◆	3.28	2.96	2.63	1770950000
	4		281-1704-ND◆	4.38	3.94	3.51	1770960000
	6		281-1705-ND◆	6.58	5.93	5.27	1770980000
	8		281-1706-ND◆	8.77	7.90	7.02	1771000000
	10	Black	281-1707-ND◆	10.94	9.85	8.76	1771020000
	12		281-1708-ND◆	13.14	11.83	10.52	1771040000
	16		281-1709-ND◆	17.51	15.76	14.01	1771080000
	2		281-1718-ND◆†	2.30	2.07	1.84	1770670000
	3		281-1719-ND◆†	3.45	3.11	2.77	1770680000
	4	Black	281-1720-ND◆†	4.61	4.15	3.69	1770690000
	6		281-1721-ND◆†	6.89	6.21	5.52	1770710000
	8		281-1722-ND◆†	9.19	8.28	7.36	1770730000
55	2	Black	281-1710-ND◆	2.36	2.13	1.89	1771090000
	3		281-1711-ND	3.55	3.20	2.84	1771100000
	4		281-1712-ND◆	4.67	4.21	3.74	1771110000
	6		281-1713-ND	7.02	6.32	5.62	1771130000
	8		281-1714-ND	9.38	8.44	7.51	1771150000
	10	Black	281-1715-ND	11.72	10.55	9.38	1771170000
	12		281-1716-ND	14.07	12.66	11.26	1771190000
	16		281-1717-ND	18.76	16.88	15.01	1771230000
	2		281-1723-ND†	2.49	2.24	1.99	1770740000
	3		281-1724-ND†	3.70	3.34	2.97	1770750000
	4		281-1725-ND◆†	4.92	4.44	3.94	1770760000

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
55	6	Black	281-1726-ND†	7.36	6.63	5.89	1770780000
	8		281-1727-ND†	9.63	8.67	7.71	1770800000
3.50mm Omnimate – BLI/O Socket Blocks							
56	10	Black	281-1803-ND◆	8.11	7.31	6.49	1779880000
57	10	Black	281-1804-ND◆	25.79	23.22	20.64	1789090000
58	10	Black	281-1805-ND	8.11	7.31	6.49	1779870000
59	10	Black	281-1806-ND	25.79	23.22	20.64	1789080000
60	30	Black	281-1799-ND	34.43	30.99	27.55	1779920000
61	30	Black	281-1800-ND	52.13	46.92	41.71	1789110000
62	30	Black	281-1801-ND	34.43	30.99	27.55	1779910000
63	30	Black	281-1802-ND	52.13	46.92	41.71	1789100000
3.81mm Omnimate – Socket Blocks							
64	2	Green	281-1912-ND◆	1.81	1.63	1.45	1792860000
	3		281-1913-ND◆	2.68	2.41	2.15	1792870000
	4		281-1914-ND◆	3.57	3.22	2.86	1792880000
	5		281-1915-ND◆	4.47	4.03	3.58	1792890000
	6		281-1916-ND◆	5.38	4.85	4.31	1792900000
	8	Green	281-1917-ND◆	7.16	6.45	5.74	1792910000
	10		281-1918-ND◆	8.97	8.08	7.18	1792920000
	12		281-1919-ND◆	10.74	9.67	8.60	1792930000
	16		281-1920-ND◆	14.31	12.89	11.45	1792940000
65	2	Green	281-1921-ND◆	1.89	1.70	1.51	1793040000
	3		281-1922-ND◆	2.83	2.55	2.27	1793050000
	4		281-1923-ND	3.76	3.39	3.01	1793060000
	5		281-1924-ND	4.81	4.34	3.85	1793070000
	6		281-1925-ND◆	5.65	5.09	4.52	1793080000
	8	Green	281-1926-ND◆	7.66	6.90	6.13	1793090000
	10		281-1927-ND	9.59	8.64	7.68	1793100000
	12		281-1928-ND◆	11.48	10.34	9.19	1793110000
	16		281-1929-ND	15.32	13.79	12.26	1793120000
66	2	Green	281-1966-ND◆	1.89	1.70	1.51	1798680000
	3		281-1967-ND◆	2.83	2.55	2.27	1798690000
	4		281-1968-ND◆	3.76	3.39	3.01	1798710000
	5		281-1969-ND◆	4.69	4.22	3.76	1798720000
	6		281-1970-ND◆	5.63	5.07	4.51	1798730000
	8	Green	281-1971-ND◆	7.50	6.76	6.01	1798740000
	10		281-1972-ND◆	9.39	8.46	7.52	1798750000
	12		281-1973-ND◆	11.26	10.14	9.02	1798760000
	16		281-1974-ND◆	15.01	13.51	12.01	1798770000
67	3	Green	281-1976-ND◆	3.02	2.72	2.42	1798860000
	4		281-1977-ND◆	4.01	3.61	3.21	1798870000
	5		281-1978-ND◆	5.01	4.52	4.02	1798880000
	6		281-1979-ND	6.03	5.44	4.83	1798890000
	8		281-1980-ND	8.03	7.23	6.43	1798900000
	10	Green	281-1981-ND	10.06	9.06	8.05	1798910000
	12		281-1982-ND	12.07	10.87	9.66	1798920000
	16		281-1983-ND	16.09	14.49	12.88	1798930000

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
68	10	Green	281-1990-ND◆	9.11	8.20	7.29	1799070000
	12		281-1991-ND◆	10.92	9.83	8.74	1799080000
	2	Black	281-2389-ND◆	1.89	1.70	1.51	1798940000
	3		281-2390-ND◆	2.83	2.55	2.27	1798160000
	4		281-2391-ND◆	3.76	3.39	3.01	1798950000
	5		281-2392-ND◆	4.69	4.22	3.76	1798960000
	6		281-2393-ND◆	5.63	5.07	4.51	1798970000
	8	Black	281-2394-ND◆	7.50	6.76	6.01	1798170000
	10		281-2395-ND◆	9.39	8.46	7.52	1798980000
	12		281-2396-ND◆	11.26	10.14	9.02	1798990000
	16		281-2397-ND◆	15.01	13.51	12.01	1799000000
69	3	Green	281-1994-ND◆	3.02	2.72	2.42	1799180000
	4		281-1995-ND◆	4.01	3.61	3.21	1799190000
	5		281-1996-ND◆	5.01	4.52	4.02	1799200000
	6		281-1997-ND	6.03	5.44	4.83	1799210000
	8		281-1998-ND◆	8.03	7.23	6.43	1799220000
	10	Green	281-1999-ND◆	10.06	9.06	8.05	1799230000
	12		281-2000-ND◆	12.07	10.87	9.66	1799240000
	16		281-2001-ND◆	16.09	14.49	12.88	1799250000
5.00mm Omnimate – Socket Blocks — RoHS Compliant							
70	2	Black	281-1180-ND	1.40	1.25	1.08	1625610000
	3		281-1181-ND	2.09	1.87	1.61	1625620000
	4		281-1182-ND	2.75	2.46	2.12	1596080000
	6		281-1183-ND	4.11	3.69	3.17	1596090000
	8		281-1184-ND	5.58	5.00	4.31	1596110000
	10	Black	281-1185-ND	6.95	6.23	5.36	1596120000
	12		281-1186-ND	9.06	8.12	6.99	1602990000
	16		281-1187-ND	12.09	10.84	9.33	1603300000
	24		281-1188-ND	18.10	16.22	13.95	1611470000
71	2	Black	281-1189-ND	1.55	1.39	1.20	1636890000
	3		281-1190-ND	2.39	2.14	1.84	1636900000
	4		281-1191-ND	3.15	2.83	2.43	1636910000
	6		281-1192-ND	4.61	4.13	3.56	1636930000
	10	Black	281-1194-ND	7.65	6.86	5.90	1636970000
	12		281-1195-ND	9.17	8.22	7.07	1636990000
	16		281-1196-ND	12.23	10.96	9.43	1637030000
5.08mm Omnimate – Socket Blocks							
72	2	Black	281-1243-ND◆	1.44	1.29	1.12	1526410000
	3		281-1244-ND◆	2.16	1.94	1.67	1526510000
	4		281-1245-ND◆	2.85	2.56	2.20	1526610000
	6		281-1246-ND◆	4.26	3.82	3.29	1526810000
	8		281-1247-ND◆	5.69	5.10	4.39	1527010000
	10	Black	281-1248-ND◆	7.10	6.36	5.48	1527210000
	12		281-1249-ND◆	8.49	7.61	6.55	1527410000
	16		281-1250-ND◆	11.07	9.92	8.54	1527810000
	24		281-1251-ND◆	16.99	15.22	13.10	1528610000

◆ ***RoHS Compliant*** † Bus Version ***NOTE:*** All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks. *(Continued)*

SL-SMT Series: • Stable at 500°F (260°C) compatible with all reflow soldering processes
• Pick and place compatible • 10 times greater strength than standard "Gull Wing" SMT pins

Dimensions in mm

Fig. 70 – BLZ 5.00

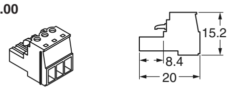

Specifications: • Screw clamp • UL: 300V @ 15A • 12AWG

Fig. 71 – BLZ 5.00/90

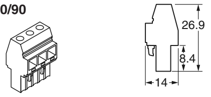

Specifications: • Screw clamp • UL: 300V @ 15A • 12AWG

Fig. 72 – BLZ 5.08

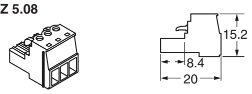

Specifications: • Screw clamp • UL: 300V @ 15A • 12AWG

Fig. 73 – BLT 5.08/180

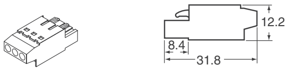

Specifications: • Top connection • UL 300V @ 15A • 12AWG

Fig. 74 – BLZ 5.08/90

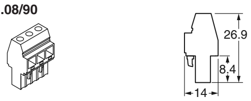

Specifications: • Screw clamp • UL: 300V @ 15A • 12AWG

Fig. 75 – BLZ 5.08/270

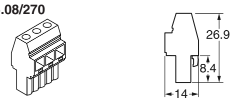

Specifications: • Screw clamp • UL: 300V @ 15A • 12AWG

Fig. 76 – BLIDC 5.08

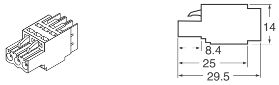

Specifications:
• IDC connection • UL: 300V @ 8A • 20AWG

Fig. 77 – SLZF 5.08/180

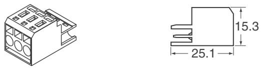

Specifications:
• Tension clamp • UL: 300V @ 10A • 12AWG

Fig. 78 – SL-SMT 3.5/180G

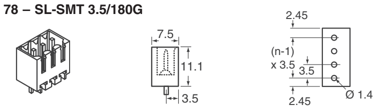

Specifications:
• Thru-hole reflow solder connection • UL: 300V @ 10A • Pin length: 1.5mm

Fig. 79 – SL-SMT 3.5/180LF

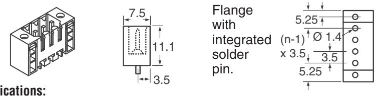

Specifications:
• Thru-hole reflow solder connection • UL: 300V @ 10A • Pin length: 1.5mm

Fig. 80 – SL-SMT 3.5/90G

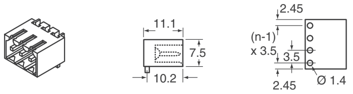

Specifications:
• Thru-hole reflow solder connection • UL: 300V @ 10A • Pin length: 1.5mm

Fig. 81 – SL-SMT 3.5/90LF

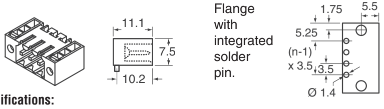

Specifications:
• Thru-hole reflow solder connection • UL: 300V @ 10A • Pin length: 1.5mm

Fig. 82 – SL-SMT 5.08/180

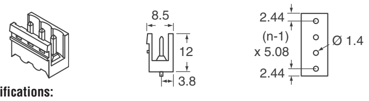

Specifications:
• Thru-hole reflow solder connection • UL: 300V @ 15A • Pin length: 1.5mm

Fig. 83 – SL-SMT 5.08/180G

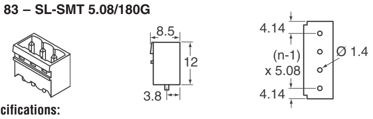

Specifications:
• Thru-hole reflow solder connection • UL: 300V @ 15A • Pin length: 1.5mm

Fig. 84 – SL-SMT 5.08/180LF

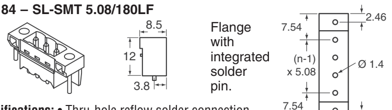

Specifications: • Thru-hole reflow solder connection
• UL: 300V @ 15A • Pin length: 1.5mm

Fig. 85 – SL-SMT 5.08/90

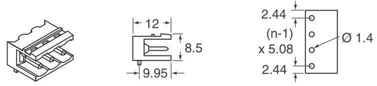

Specifications:
• Thru-hole reflow solder connection • UL: 300V @ 15A • Pin length: 1.5mm

Fig. 86 – SL-SMT 5.08/90G

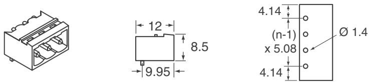

Specifications:
• Thru-hole reflow solder connection • UL: 300V @ 15A • Pin length: 1.5mm

Fig. 87 – SL-SMT 5.08/90LF

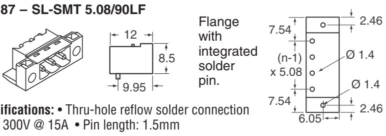

Specifications: • Thru-hole reflow solder connection
• UL: 300V @ 15A • Pin length: 1.5mm

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Weidmüller Part No.
73	2	Black	281-1902-ND◆	4.42	3.98	3.54	1499510000
	3		281-1903-ND	6.63	5.97	5.31	1499610000
	4		281-1904-ND	8.84	7.96	7.08	1499710000
	5		281-1905-ND	11.02	9.92	8.82	1499810000
	6		281-1906-ND◆	13.50	12.15	10.80	1499910000
	8	Black	281-1907-ND	17.59	15.83	14.07	1500110000
	10		281-1908-ND	21.99	19.80	17.60	1500310000
	12		281-1909-ND◆	26.97	24.27	21.58	1500510000
	16		281-1910-ND	35.16	31.65	28.13	1500910000
	24		281-1911-ND◆	55.48	49.93	44.39	1501710000
74	2	Black	281-1252-ND◆	1.64	1.47	1.27	1552710000
	3		281-1253-ND◆	2.43	2.18	1.88	1552810000
	4		281-1254-ND◆	3.21	2.88	2.48	1552910000
	6		281-1255-ND◆	4.79	4.29	3.69	1553110000
	8		281-1256-ND◆	6.39	5.73	4.93	1553310000
	10	Black	281-1257-ND◆	7.98	7.16	6.16	1553510000
	12		281-1258-ND◆	9.56	8.57	7.37	1553710000
	16		281-1259-ND◆	12.74	11.42	9.82	1554110000
	24		281-1260-ND	18.97	16.99	14.62	1554910000
75	2	Black	281-1261-ND◆	1.58	1.42	1.22	1557310000
	3		281-1262-ND◆	2.37	2.13	1.83	1557410000
	4		281-1263-ND◆	3.21	2.88	2.48	1557510000
	6		281-1264-ND◆	4.70	4.21	3.63	1557710000
	8		281-1265-ND◆	6.39	5.73	4.93	1557910000
	10	Black	281-1266-ND◆	7.80	6.99	6.02	1558110000
	12		281-1267-ND	9.56	8.57	7.37	1558310000
	16		281-1268-ND◆	12.74	11.42	9.82	1558710000
76	2	Black	281-1728-ND◆	2.19	1.98	1.76	1759390000
	3		281-1729-ND◆	3.28	2.96	2.63	1759400000
	4		281-1730-ND◆	4.37	3.94	3.50	1759410000
	6		281-1731-ND◆	6.55	5.90	5.25	1759430000
	8		281-1732-ND◆	8.73	7.86	6.99	1759450000
	10	Black	281-1733-ND◆	10.93	9.84	8.74	1759470000
	12		281-1734-ND◆	13.07	11.77	10.46	1759490000
5.08mm Omnimate – Pin Plugs — RoHS Compliant							
77	2	Black	281-1790-ND	1.99	1.79	1.60	1709600000
	3		281-1791-ND	2.57	2.32	2.06	1709610000
	4		281-1792-ND	3.13	2.82	2.51	1709620000
	6		281-1793-ND	4.26	3.84	3.42	1709640000
	8		281-1794-ND	5.53	4.98	4.43	1709660000
	10	Black	281-1795-ND	6.65	5.99	5.32	1709680000
	16		281-1797-ND	9.93	8.94	7.95	1709740000
3.50mm Omnimate – SMT Compatible PCB Pin Headers							
78	2	Black	281-1772-ND◆	.73	.66	.59	1752982001
	3		281-1773-ND◆	1.09	.98	.88	1752992001
	4		281-1774-ND◆	1.47	1.33	1.18	1753002001
78	6	Black	281-1775-ND◆	2.21	1.99	1.77	1753022001
	8		281-1776-ND◆	2.87	2.59	2.30	1753042001
	10		281-1777-ND◆	3.63	3.27	2.91	1753062001
	12		281-1778-ND◆	4.29	3.87	3.44	1753082001
	16		281-1779-ND◆	5.83	5.25	4.67	1753122001
	24		281-1780-ND◆	8.56	7.71	6.85	1753202001
79	2	Black	281-1781-ND	.87	.79	.70	1760962001
	3		281-1782-ND	1.31	1.18	1.05	1760972001
	4		281-1783-ND	1.67	1.51	1.34	1760982001
	6		281-1784-ND	2.53	2.28	2.03	1761002001
	8		281-1785-ND◆	3.36	3.03	2.70	1761022001
	10	Black	281-1786-ND	4.18	3.77	3.35	1761042001
	12		281-1787-ND	5.00	4.51	4.01	1761062001
	16		281-1788-ND	6.69	6.03	5.36	1761102001
	24		281-1789-ND	9.50	8.55	7.60	1761182001
80	2	Black	281-1754-ND◆	.73	.66	.59	1761542001
	3		281-1755-ND◆	1.09	.98	.88	1761552001
	4		281-1756-ND◆	1.47	1.33	1.18	1761562001
	6		281-1757-ND◆	2.21	1.99	1.77	1761582001
	8		281-1758-ND◆	2.87	2.59	2.30	1761602001
	10	Black	281-1759-ND◆	3.63	3.27	2.91	1761622001
	12		281-1760-ND◆	4.29	3.87	3.44	1761642001
	16		281-1761-ND◆	5.83	5.25	4.67	1761682001
	24		281-1762-ND◆	8.56	7.71	6.85	1761762001
81	2	Black	281-1763-ND◆	.87	.79	.70	1762002001
	3		281-1764-ND	1.31	1.18	1.05	1762012001
	4		281-1765-ND	1.67	1.51	1.34	1762022001
	6		281-1766-ND	2.53	2.28	2.03	1762042001
	8		281-1767-ND	3.36	3.03	2.70	1762062001
	10	Black	281-1768-ND◆	4.18	3.77	3.35	1762082001
	12		281-1769-ND◆	5.00	4.51	4.01	1762102001
	16		281-1770-ND	6.69	6.03	5.36	1762142001
	24		281-1771-ND◆	9.99	9.00	8.00	1762222001
5.08mm Omnimate – SMT Compatible PCB Pin Headers							
82	2	Black	281-1610-ND	.62	.56	.50	1775522001
	3		281-1611-ND	.92	.83	.74	1775572001
	4		281-1612-ND	1.22	1.10	.98	1775592001
	5		281-1613-ND	1.52	1.37	1.22	1775632001
	6		281-1614-ND	1.80	1.62	1.44	1775642001
	8	Black	281-1615-ND◆	2.37	2.14	1.90	1775662001
	10		281-1616-ND◆	2.98	2.69	2.39	1775682001
	12		281-1617-ND◆	3.57	3.22	2.86	1775702001
	16		281-1618-ND◆	4.75	4.28	3.81	1775742001
	24		281-1619-ND◆	6.93	6.24	5.55	1775822001
83	2	Black	281-1620-ND◆	.62	.56	.50	1775922001
	3		281-1621-ND◆	.92	.83	.74	1775932001
83	4	Black	281-1622-ND◆	1.22	1.10	.98	1775942001
	5		281-1623-ND◆	1.52	1.37	1.22	1775952001
	6		281-1624-ND◆	1.80	1.62	1.44	1775962001
	8		281-1625-ND◆	2.37	2.14	1.90	1775982001
	10		281-1626-ND◆	2.98	2.69	2.39	1776002001
	12	Black	281-1627-ND◆	3.57	3.22	2.86	1776022001
	16		281-1628-ND◆	4.75	4.28	3.81	1776272001
	24		281-1629-ND◆	6.93	6.24	5.55	1776352001
84	2	Black	281-1630-ND	.99	.90	.80	1776362001
	3		281-1631-ND	1.22	1.10	.98	1776372001
	4		281-1632-ND◆	1.47	1.33	1.18	1776382001
	5		281-1633-ND	1.72	1.55	1.38	1776392001
	6		281-1634-ND	1.99	1.79	1.60	1776402001
	8	Black	281-1635-ND	2.62	2.36	2.10	1776422001
	10		281-1636-ND	3.28	2.96	2.63	1776442001
	12		281-1637-ND	3.92	3.53	3.14	1776462001
	16		281-1638-ND	5.23	4.71	4.19	1776502001
	24		281-1639-ND	7.63	6.87	6.11	1776592001
85	2	Black	281-1640-ND◆	.62	.56	.50	1774762001
	3		281-1641-ND◆	.92	.83	.74	1774772001
	4		281-1642-ND◆	1.22	1.10	.98	1774782001
	5		281-1643-ND◆	1.52	1.37	1.22	1774792001
	6		281-1644-ND◆	1.80	1.62	1.44	1774802001
	8	Black	281-1645-ND◆	2.37	2.14	1.90	1774822001
	10		281-1646-ND◆	2.98	2.69	2.39	1774842001
	12		281-1647-ND◆	3.57	3.22	2.86	1774862001
	16		281-1648-ND◆	4.75	4.28	3.81	1774902001
	24		281-1649-ND◆	6.93	6.24	5.55	1774982001
86	2	Black	281-1660-ND◆	.62	.56	.50	1775002001
	3		281-1661-ND◆	.92	.83	.74	1775012001
	4		281-1662-ND◆	1.22	1.10	.98	1775022001
	5		281-1663-ND◆	1.52	1.37	1.22	1775032001
	6		281-1664-ND◆	1.80	1.62	1.44	1775042001
	8	Black	281-1665-ND◆	2.37	2.14	1.90	1775062001
	10		281-1666-ND◆	2.98	2.69	2.39	1775082001
	12		281-1667-ND◆	3.57	3.22	2.86	1775102001
	16		281-1668-ND◆	4.75	4.28	3.81	1775142001
	24		281-1669-ND◆	6.93	6.24	5.55	1775222001
87	2	Black	281-1650-ND◆	.99	.90	.80	1775232001
	3		281-1651-ND	1.22	1.10	.98	1775242001
	4		281-1652-ND◆	1.47	1.33	1.18	1775252001
	5		281-1653-ND	1.72	1.55	1.38	1775262001
	6		281-1654-ND	1.99	1.79	1.60	1775272001
	10	Black	281-1656-ND◆	3.28	2.96	2.63	1775312001
	12		281-1657-ND	3.92	3.53	3.14	1775332001
	16		281-1658-ND	5.23	4.71	4.19	1775372001
	24		281-1659-ND	7.63	6.87	6.11	1775452001

◆ ***RoHS Compliant*** † Bus Version ***NOTE:*** All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

Amphenol® Pcd

NEW! FXP FlexiPlug® Hybrid Pluggable Block, .200”(5.08mm)

FXP FlexiPlug hybrid terminal blocks combine U.S.-style standard screwdriver barrier-block wire terminations with a European-style pluggable block nose; and will mate with both Amphenol Pcd and competitive headers. FlexiPlugs can be used interchangeably with moving cage clamp style plugs, such as ELF and both plug styles can be used in the same system.

Specifications: • Current rating: 15A • Operating voltage: 300V • Dielectric withstanding: <3000V • Color: Black
Installation: • Wire range: 12-26AWG • Recommended tightening torque: 12lb-in. (1.35N-m) • Screwdriver: #2 Phillips, 1/4” blade
Approvals: UL, CSA, TUV and CE recognized.

Fig.	No. of Positions	Dimension L (Inch)	Digi-Key Part No.	Price Each 1	25	100	Amphenol Pcd Part No.
1	3	0.870	APC1134-ND	1.60	1.23	1.15	FXPT03200
	5	1.270	APC1135-ND	2.86	2.15	2.01	FXPT05200
	7	1.670	APC1136-ND	3.62	2.72	2.54	FXPT07200
	9	2.070	APC1137-ND	4.64	3.48	3.25	FXPT09200
	11	2.470	APC1138-ND	5.68	4.26	3.98	FXPT11200
2	2	0.670	APC1139-ND	1.16	.87	.82	FXPT02200
	4	1.070	APC1140-ND	2.28	1.71	1.60	FXPT04200
	6	1.470	APC1141-ND	3.10	2.33	2.17	FXPT06200
	8	1.870	APC1142-ND	4.14	3.11	2.90	FXPT08200
	10	2.270	APC1143-ND	5.16	3.87	3.62	FXPT10200
	12	2.670	APC1144-ND	5.68	4.26	3.98	FXPT12200
3	3	1.040	APC1145-ND	2.42	1.82	1.70	FXPT03200E
	5	1.440	APC1146-ND	3.64	2.73	2.55	FXPT05200E
	7	1.840	APC1147-ND	4.40	3.30	3.08	FXPT07200E
	9	2.240	APC1148-ND	5.42	4.07	3.80	FXPT09200E
	11	2.640	APC1149-ND	6.46	4.85	4.53	FXPT11200E

Dimensions in Inches

Fig. 1 — Uneven Configuration

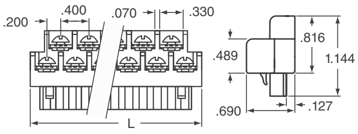

Fig. 2 — Even Configuration

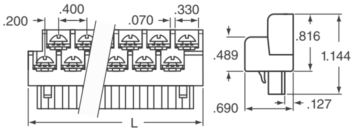

Fig. 3 — Uneven Configuration with Ears

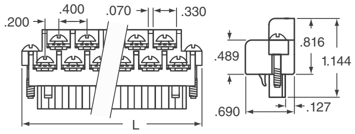

NEW! ELFH Headers with Ejector Ears/Locking Ears

The ELFH Series ejector ear header allows for plug disconnect with a minimal amount of effort by way of screwdriver or finger actuation of the levered ears. The universal design accepts ELF Series plugs or FXP Series Flexiplug™ connectors. ELFH Series headers mate with ELF Series plugs and accommodate competitive plugs as well.

Specifications: • Current rating: 15A • Operating voltage: 300V • Dielectric withstanding: <3000V • Color: Black header, gray ears
Materials: • Housing: PBT, UL 94V-0, Black • Contact: Copper alloy, optional finish
Approvals: UL, CSA, TUV and CE recognized.

Dimensions in Inches

Fig. 1 — Right Angle with Ejector Ears

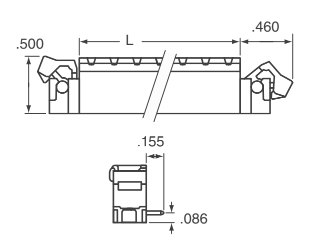

Fig. 2 — Vertical with Ejector Ears

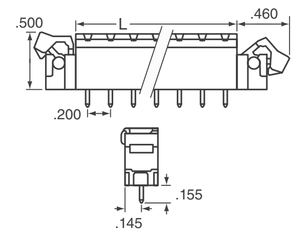

Fig. 3 — Closed Ends

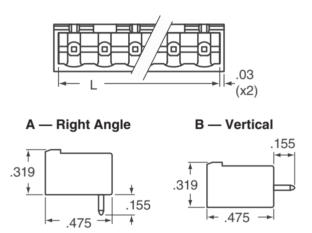

A — Right Angle B — Vertical

Fig. 4 — With Mounting Ears

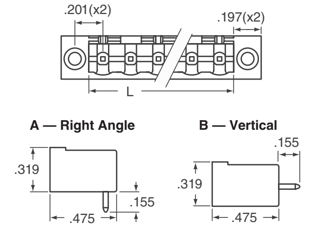

A — Right Angle B — Vertical

Fig.	No. of Positions	Dimension L (Inch)	Centerline Spacing (Inch)	Digi-Key Part No.	Price Each 1	25	100	Amphenol Pcd Part No.
1	8	1.6	.200	APC1150-ND	1.72	1.29	1.21	ELFH08210J
	9	1.8	.200	APC1151-ND	1.92	1.44	1.35	ELFH09210J
	10	2.0	.200	APC1152-ND	2.14	1.61	1.50	ELFH10210J
	11	2.2	.200	APC1153-ND	2.34	1.76	1.64	ELFH11210J
	12	2.4	.200	APC1154-ND	2.36	1.77	1.66	ELFH12210J
2	8	1.6	.200	APC1155-ND	1.72	1.29	1.21	ELFH08250J
	9	1.8	.200	APC1156-ND	1.92	1.44	1.35	ELFH09250J
	10	2.0	.200	APC1157-ND	2.14	1.61	1.50	ELFH10250J
	11	2.2	.200	APC1158-ND	2.34	1.76	1.64	ELFH11250J
	12	2.4	.200	APC1159-ND	2.36	1.77	1.66	ELFH12250J
3A	2	.526	.300	APC1199-ND	.44	.33	.31	ELFH02410
	3	.826	.300	APC1200-ND	.66	.50	.47	ELFH03410
	4	1.126	.300	APC1201-ND	.84	.63	.59	ELFH04410
	5	1.426	.300	APC1202-ND	1.10	.83	.77	ELFH05410
	6	1.726	.300	APC1203-ND	1.18	.89	.83	ELFH06410
	7	2.026	.300	APC1204-ND	1.38	1.04	.97	ELFH07410
	8	2.326	.300	APC1205-ND	1.58	1.19	1.11	ELFH08410
	2	.406	.200	APC1258-ND	.38	.29	.27	ELFH02210
	3	.606	.200	APC1259-ND	.58	.44	.41	ELFH03210
	4	.806	.200	APC1260-ND	.76	.57	.54	ELFH04210
	5	1.006	.200	APC1261-ND	.96	.72	.68	ELFH05210
	6	1.206	.200	APC1262-ND	1.04	.78	.73	ELFH06210
	7	1.406	.200	APC1263-ND	1.20	.90	.84	ELFH07210
	8	1.606	.200	APC1264-ND	1.38	1.04	.97	ELFH08210
	9	1.806	.200	APC1265-ND	1.54	1.16	1.08	ELFH09210
	10	2.006	.200	APC1266-ND	1.72	1.29	1.21	ELFH10210
	11	2.206	.200	APC1267-ND	1.88	1.41	1.32	ELFH11210
	12	2.406	.200	APC1268-ND	1.88	1.41	1.32	ELFH12210
3B	2	.526	.300	APC1206-ND	.44	.33	.31	ELFH02450
	3	.826	.300	APC1207-ND	.66	.50	.47	ELFH03450
	4	1.126	.300	APC1208-ND	.84	.63	.59	ELFH04450
	5	1.426	.300	APC1209-ND	1.10	.83	.77	ELFH05450
	6	1.726	.300	APC1210-ND	1.18	.89	.83	ELFH06450
	7	2.026	.300	APC1211-ND	1.38	1.04	.97	ELFH07450
	8	2.326	.300	APC1212-ND	1.58	1.19	1.11	ELFH08450
	2	.406	.200	APC1242-ND	.38	.29	.27	ELFH02250
	3	.606	.200	APC1243-ND	.58	.44	.41	ELFH03250
	4	.806	.200	APC1244-ND	.76	.57	.54	ELFH04250
	5	1.006	.200	APC1245-ND	.96	.72	.68	ELFH05250
	6	1.206	.200	APC1246-ND	1.04	.78	.73	ELFH06250
	7	1.406	.200	APC1247-ND	1.20	.90	.84	ELFH07250
	8	1.606	.200	APC1248-ND	1.38	1.04	.97	ELFH08250

(Continued)

Amphenol® Pcd *NEW!* ELFH Headers with Ejector Ears/Locking Ears *(Cont.)*

Fig.	No. of Positions	Dimension L (Inch)	Centerline Spacing (Inch)	Digi-Key Part No.	Price Each 1	25	100	Amphenol Pcd Part No.
3B	9	1.806	.200	APC1249-ND	1.54	1.16	1.08	ELFH09250
	10	2.006	.200	APC1250-ND	1.72	1.29	1.21	ELFH10250
	11	2.206	.200	APC1251-ND	1.88	1.41	1.32	ELFH11250
	12	2.406	.200	APC1252-ND	1.88	1.41	1.32	ELFH12250
4A	3	.606	.200	APC1269-ND	1.36	1.02	.96	ELFH03210E
	5	1.006	.200	APC1270-ND	1.74	1.31	1.22	ELFH05210E
	7	1.406	.200	APC1271-ND	1.98	1.49	1.39	ELFH07210E
	9	1.806	.200	APC1272-ND	2.32	1.74	1.63	ELFH09210E
	11	2.206	.200	APC1273-ND	2.66	2.00	1.87	ELFH11210E
4B	3	.606	.200	APC1253-ND	1.36	1.02	.96	ELFH03250E
	5	1.006	.200	APC1254-ND	1.74	1.31	1.22	ELFH05250E
	7	1.406	.200	APC1255-ND	1.98	1.49	1.39	ELFH07250E
	9	1.806	.200	APC1256-ND	2.32	1.74	1.63	ELFH09250E
	11	2.206	.200	APC1257-ND	2.66	2.00	1.87	ELFH11250E

NEW! ELF and SCFF Series Headers, Plugs and Accessories

The ELF line comprises a family of durable, high-temperature plug and headers on .200" and 5.0mm spacing that provide flexible wire-to-board interconnect solutions for a wide variety of applications. The ELF mates interchangeably with .200" and 5.0mm competitive plugs and headers, but offers significant advantages in materials, design and performance.

Screwless spring-clamp wire terminations designed to simplify installation and reduce time and labor are a feature of Amphenol Pcd's SC line of wire-to-board terminal blocks and two-piece plug and header interconnects. SCFF .200" spacing spring-clamp plugs utilize a stainless steel clamping spring to provide "screwless" wire termination. Convenient "front-front" design permits both wire entry and spring actuation from the same connector surface, simplifying operation. SCFF plugs mate with the complete range of ELF headers.

Both Series are UL, CSA, TUV and CE recognized.

Dimensions in Inches

Fig. 1 — ELFA Series

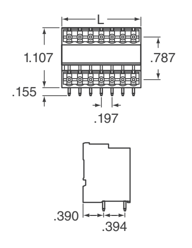

Fig. 2 — ELFP-P Series

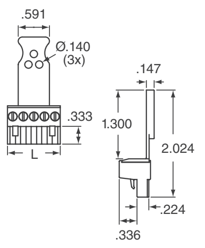

Fig. 3 — ELFF Series

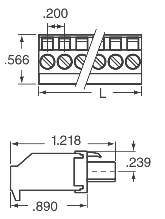

Fig. 4 — ELFP Series

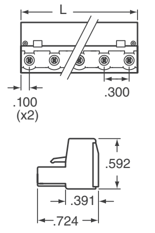

Fig. 5 — ELFT Series

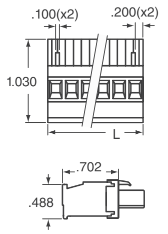

Fig. 6 — SCFF Series

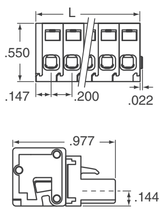

Fig.	No. of Positions	Centerline Spacing (Inch)	Dimension L (Inch)	Digi-Key Part No.	Price Each 1	25	100	Amphenol Pcd Part No.
ELFA Series 2-Tier Headers, Right Angle								
1	4	.197	.474	APC1160-ND	.94	.71	.66	ELFA04110
	6	.197	.671	APC1161-ND	1.42	1.07	1.00	ELFA06110
	8	.197	.868	APC1162-ND	1.88	1.41	1.32	ELFA08110
	10	.197	1.065	APC1163-ND	2.34	1.76	1.64	ELFA10110
	12	.197	1.262	APC1164-ND	2.82	2.12	1.98	ELFA12110
	14	.197	1.459	APC1165-ND	3.28	2.46	2.30	ELFA14110
	16	.197	1.656	APC1166-ND	3.74	2.81	2.62	ELFA16110
	18	.197	1.853	APC1167-ND	4.22	3.17	2.96	ELFA18110
	20	.197	2.05	APC1168-ND	4.68	3.51	3.28	ELFA20110
ELFP-P Series Plugs with Strain Relief, Right Angle								
2	3	.200	.600	APC1169-ND	2.34	1.76	1.64	ELFP0321P0
	4	.200	.800	APC1170-ND	3.12	2.34	2.19	ELFP0421P0
	5	.200	1.000	APC1171-ND	3.88	2.91	2.72	ELFP0521P0
	6	.200	1.200	APC1172-ND	4.66	3.50	3.27	ELFP0621P0
	7	.200	1.400	APC1173-ND	5.44	4.08	3.81	ELFP0721P0
ELFF Series Plugs with Top Entry								
3	2	.200	.400	APC1174-ND	1.22	.92	.86	ELFF02230
	3	.200	.600	APC1175-ND	1.80	1.35	1.26	ELFF03230
	4	.200	.800	APC1176-ND	2.40	1.80	1.68	ELFF04230
	5	.200	1.0	APC1177-ND	3.00	2.25	2.10	ELFF05230
	6	.200	1.2	APC1178-ND	3.24	2.43	2.27	ELFF06230
	7	.200	1.4	APC1179-ND	3.78	2.84	2.65	ELFF07230
	8	.200	1.6	APC1180-ND	4.32	3.24	3.03	ELFF08230
	9	.200	1.8	APC1181-ND	4.86	3.65	3.41	ELFF09230
	10	.200	2.0	APC1182-ND	5.40	4.05	3.78	ELFF10230
	11	.200	2.2	APC1183-ND	5.94	4.46	4.16	ELFF11230
	12	.200	2.4	APC1184-ND	6.44	4.83	4.51	ELFF12230
ELFP Series Plugs, Right Angle								
4	2	.300	.500	APC1185-ND	1.34	1.01	.94	ELFP02410
	3	.300	.800	APC1186-ND	2.02	1.52	1.42	ELFP03410
	4	.300	1.1	APC1187-ND	2.68	2.01	1.88	ELFP04410
	5	.300	1.4	APC1188-ND	3.38	2.54	2.37	ELFP05410
	6	.300	1.7	APC1189-ND	4.04	3.03	2.83	ELFP06410
	7	.300	2.0	APC1190-ND	4.72	3.54	3.31	ELFP07410
	8	.300	2.3	APC1191-ND	5.38	4.04	3.77	ELFP08410
ELFT Series Plugs with Top Entry								
5	2	.300	.300	APC1192-ND	1.34	1.01	.94	ELFT02450
	3	.300	.450	APC1193-ND	2.02	1.52	1.42	ELFT03450
	4	.300	.600	APC1194-ND	2.68	2.01	1.88	ELFT04450
	5	.300	.750	APC1195-ND	3.38	2.54	2.37	ELFT05450
	6	.300	.900	APC1196-ND	4.04	3.03	2.83	ELFT06450
	7	.300	1.05	APC1197-ND	4.72	3.54	3.31	ELFT07450
	8	.300	1.2	APC1198-ND	5.38	4.04	3.77	ELFT08450
SCFF Series Spring Clamp Plugs								
6	2	.200	.460	APC1235-ND	.96	.72	.68	SCFF02210
	3	.200	.660	APC1236-ND	1.44	1.08	1.01	SCFF03210
	4	.200	.860	APC1237-ND	1.92	1.44	1.35	SCFF04210
	5	.200	1.060	APC1238-ND	2.40	1.80	1.68	SCFF05210
	6	.200	1.260	APC1239-ND	2.88	2.16	2.02	SCFF06210
	7	.200	1.460	APC1240-ND	3.36	2.52	2.36	SCFF07210
	8	.200	1.660	APC1241-ND	3.84	2.88	2.69	SCFF08210

Amphenol® Pcd *NEW!* ELFB Series Inverted Male Headers

Dimensions in Inch

ELFB inverted headers are board-mounted solder pin headers which incorporate a mating configuration that is identical to a standard ELF family plug. The ELFB, in effect, is a board-mount plug. It features a plug-like nose and twin-beam plug contacts, and will mate with standard ELF-family pin headers, or similar competitive headers, providing board-to board interconnect capability.

Specifications: • Current Rating: 15A • Operating Voltage: 300V

Approvals: UL, CSA, TUV and CE recognized.

Fig. 1 — Right Angle

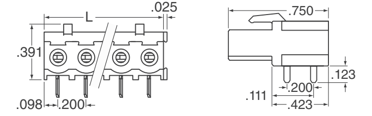

Fig. 2 — Vertical

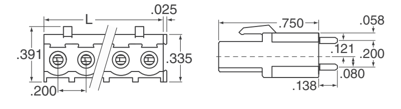

Fig.	Number of Positions	Centerline Spacing (Inch)	Dimension L (Inch)	Digi-Key Part No.	Price Each			Amphenol Pcd Part No.
					1	25	100	
				Right Angle				
1	2	.200	.400	APC1213-ND	.46	.35	.33	ELFB02230
	3	.200	.600	APC1214-ND	.70	.53	.49	ELFB03230
	4	.200	.800	APC1215-ND	.92	.69	.65	ELFB04230
	5	.200	1.0	APC1216-ND	1.14	.86	.80	ELFB05230
	6	.200	1.2	APC1217-ND	1.38	1.04	.97	ELFB06230
	7	.200	1.4	APC1218-ND	1.60	1.20	1.12	ELFB07230
	8	.200	1.6	APC1219-ND	1.84	1.38	1.29	ELFB08230
	9	.200	1.8	APC1220-ND	2.06	1.55	1.45	ELFB09230
	10	.200	2.0	APC1221-ND	2.28	1.71	1.60	ELFB10230
	11	.200	2.2	APC1222-ND	2.52	1.89	1.77	ELFB11230
	12	.200	2.4	APC1223-ND	2.74	2.06	1.92	ELFB12230
				Vertical				
2	2	.200	.400	APC1224-ND	.46	.35	.33	ELFB02280
	3	.200	.600	APC1225-ND	.70	.53	.49	ELFB03280
	4	.200	.800	APC1226-ND	.92	.69	.65	ELFB04280
	5	.200	1.0	APC1227-ND	1.14	.86	.80	ELFB05280
	6	.200	1.2	APC1228-ND	1.38	1.04	.97	ELFB06280
	7	.200	1.4	APC1229-ND	1.60	1.20	1.12	ELFB07280
	8	.200	1.6	APC1230-ND	1.84	1.38	1.29	ELFB08280
	9	.200	1.8	APC1231-ND	2.06	1.55	1.45	ELFB09280
	10	.200	2.0	APC1232-ND	2.28	1.71	1.60	ELFB10280
	11	.200	2.2	APC1233-ND	2.52	1.89	1.77	ELFB11280
	12	.200	2.4	APC1234-ND	2.74	2.06	1.92	ELFB12280

NEW! High Current Terminal Blocks

Dimensions in Inch

Fig. 1 — ESPM Series

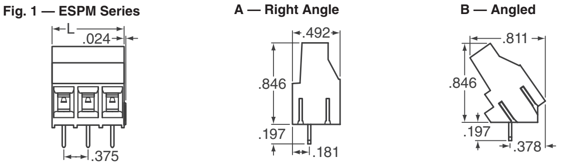
A — Right Angle

B — Angled

Fig. 2 — ELMP Series

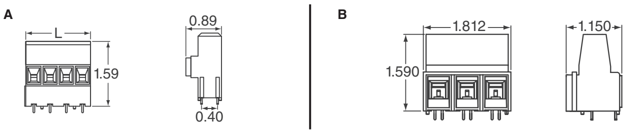

Fig.	Number of Positions	Voltage Rating (V)	Current Rating (A)	Pitch (Inch)	Dimension L (Inch)	Digi-Key Part No.	Price Each			Amphenol Pcd Part No.
							1	25	100	
						ESPM Series — Right Angle				
1A	2	600	32	.375	.75	APC1274-ND	.94	.71	.66	ESPM02200
	3	600	32	.375	1.125	APC1275-ND	1.42	1.07	1.00	ESPM03200
						ESPM Series — Angled				
1B	2	600	32	.375	.75	APC1276-ND	1.02	.77	.72	ESPM02230
	3	600	32	.375	1.125	APC1277-ND	1.54	1.16	1.08	ESPM03230

Fig.	Number of Positions	Voltage Rating (V)	Current Rating (A)	Centerline Spacing (Inch)	Dimension L (Inch)	Digi-Key Part No.	Price Each			Amphenol Pcd Part No.
							1	25	100	
						ELMP Series				
2A	4	300	60	.400	1.60	APC1278-ND	3.56	2.67	2.50	ELMP04041
	8	300	60	.400	3.20	APC1279-ND	7.10	5.33	4.97	ELMP08041
2B	3	600	75	.591	—	APC1280-ND	2.96	2.22	2.08	ELMP03150

NEW! DIN Rail and Bus Bar Mounted Terminal Blocks

Fig. 1 — ATB2, ATB4, ATB6, ATB10

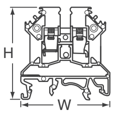

Fig. 2 — ATB50, ATB95

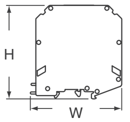

Fig. 3 — ATBB35, ATBB70, ATBB95

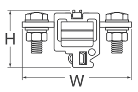

Fig. 4 — ATBB5

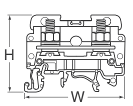

Fig.	Pitch (mm)	Voltage Rating (V)	Current Rating (A)	Wire Range (AWG)	Dimensions (mm) H X W	Digi-Key Part No.	Price Each			Amphenol Pcd Part No.
							1	25	100	
1	5	600	20	24-14	45 x 43	APC1281-ND	1.00	.75	.70	ATB2
	6	600	40†	22-10	45 x 43	APC1282-ND	1.22	.92	.86	ATB4
	8	600	50	22-8	47 x 43	APC1283-ND	1.56	1.17	1.10	ATB6
	10	600	65	20-6	47 x 43	APC1284-ND	1.99	1.50	1.40	ATB10
2	20.5	600	150	6-2/0	75.5 x 71	APC1285-ND	14.03	10.53	9.83	ATB50
	25	600	230	2-4/0	90 x 83	APC1286-ND	26.00	19.50	18.20	ATB95
3	28	600	145	8-2	49 x 75	APC1288-ND	10.00	7.50	7.00	ATBB35
	40	600	250	8-2/0	49 x 98	APC1289-ND	14.00	10.50	9.80	ATBB70
	40	600	300	8-4/0	49 x 130	APC1290-ND	19.00	14.25	13.30	ATBB95
4	17	600	80	22-4	44.5 x 50	APC1287-ND	5.00	3.75	3.50	ATBB5

† 40A with 2 numbers of 12AWG wire; 35A with 1 number of 10AWG wire.

AMERICAN ELECTRICAL INC.

Crimp Wire Ferrules (For Use with European Style Terminal Blocks)

Wire Ferrules – Insulated

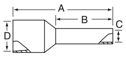

Material: Copper/Plastic. Surface: Tin-plated.

Size (mm^2)	AWG	Type	Color Code	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 10	50	100	AE Part No.
0.14	26	DIN	Gray	10.5	6	0.8	2.0	288-1001-ND*	2.32	10.15	17.40	1161014
				12.5	8	0.8	2.0	288-1002-ND*	2.48	10.85	18.60	1181014
		W	Gray	10.5	6	0.8	2.0	288-1039-ND*	2.32	10.15	17.40	1162014
0.25	24	DIN	Yellow	10.5	6	0.8	2.0	288-1003-ND*	2.32	10.15	17.40	11610025
				12.5	8	0.8	2.0	288-1004-ND*	2.48	10.85	18.60	11810025
		W	Blue	10.5	6	0.8	2.0	288-1041-ND*	2.32	10.15	17.40	11620025
				12.5	8	0.8	2.0	288-1042-ND*	2.48	10.85	18.60	11820025
0.34	24	DIN	Turquoise	10.5	6	0.8	2.0	288-1005-ND*	2.32	10.15	17.40	1161034
				12.5	8	0.8	2.0	288-1006-ND*	2.48	10.85	18.60	1181034
		W	Turquoise	10.5	6	0.8	2.0	288-1043-ND*	2.32	10.15	17.40	1162034
				12.5	8	0.8	2.0	288-1044-ND*	2.48	10.85	18.60	1182034
0.50	20	DIN	White	11.5	6	1.1	2.5	288-1007-ND	1.68	7.35	12.60	1161050
				13.5	8	1.1	2.5	288-1008-ND	1.20	5.25	9.00	1181050
				15.5	10	1.1	2.5	288-1009-ND	1.68	7.35	12.60	11101050
		W	Orange	11.5	6	1.1	2.5	288-1045-ND	1.68	7.35	12.60	1162050
				13.5	8	1.1	2.5	288-1046-ND	1.20	5.25	9.00	1182050
				15.5	10	1.1	2.5	288-1047-ND	1.68	7.35	12.60	11102050
0.75	20	DIN	Gray	12.0	6	1.3	2.8	288-1010-ND	1.76	7.70	13.20	1161075
				14.0	8	1.3	2.8	288-1011-ND	1.20	5.25	9.00	1181075
				16.0	10	1.3	2.8	288-1012-ND	1.76	7.70	13.20	11101075
				18.0	12	1.3	2.8	288-1013-ND	1.76	7.70	13.20	11121075
		W	White	12.0	6	1.3	2.8	288-1048-ND	1.76	7.70	13.20	1162075
				14.0	8	1.3	2.8	288-1049-ND	1.20	5.25	9.00	1182075
1.00	18	DIN	Red	12.5	6	1.5	3.0	288-1014-ND	2.00	8.75	15.00	1161010
				14.5	8	1.5	3.0	288-1015-ND	1.28	5.60	9.60	1181010
				16.5	10	1.5	3.0	288-1016-ND	2.00	8.75	15.00	11101010
		W	Yellow	12.5	6	1.5	3.0	288-1052-ND	2.00	8.75	15.00	1162010
				14.5	8	1.5	3.0	288-1053-ND	1.28	5.60	9.60	1182010
				16.5	10	1.5	3.0	288-1054-ND	2.00	8.75	15.00	11102010
				18.5	12	1.5	3.0	288-1055-ND	2.00	8.75	15.00	11122010
1.50	16	DIN	Black	12.5	6	1.8	3.4	288-1018-ND*	2.80	12.25	21.00	1161015
				14.5	8	1.8	3.4	288-1019-ND	1.76	7.70	13.20	1181015
				16.5	10	1.8	3.4	288-1020-ND	2.80	12.25	21.00	11101015
				18.5	12	1.8	3.4	288-1021-ND	2.80	12.25	21.00	11121015
				12.5	6	1.8	3.4	288-1056-ND*	2.80	12.25	21.00	1162015
		W	Red	14.5	8	1.8	3.4	288-1057-ND	1.76	7.70	13.20	1182015
				16.5	10	1.8	3.4	288-1058-ND	2.80	12.25	21.00	11102015
2.08	14	DIN	Yellow	14.5	8	2.05	3.6	288-1023-ND*	2.20	9.63	16.50	1181208
2.50	14	DIN	Blue	15.0	8	2.3	4.2	288-1024-ND	1.76	7.70	13.20	1181025
				19.0	12	2.3	4.2	288-1025-ND	2.40	10.50	18.00	11121025
		W	Blue	15.0	8	2.3	4.2	288-1062-ND	1.76	7.70	13.20	1182025
				19.0	12	2.3	4.2	288-1063-ND	2.40	10.50	18.00	11122025
4.00	12	DIN	Gray	17.5	10	2.9	4.8	288-1027-ND	2.88	12.60	21.60	11101040
				20.0	12	2.9	4.8	288-1028-ND	2.88	12.60	21.60	11121040
		W	Gray	17.5	10	2.9	4.8	288-1065-ND	2.88	10.80	14.40	11102040
				20.0	12	2.9	4.8	288-1066-ND	2.88	10.80	14.40	11122040
6.00	10	DIN	Yellow	20.0	12	3.6	6.2	288-1030-ND	3.80	14.25	19.00	11121060
		W	Black	20.0	12	3.6	6.2	288-1068-ND	3.80	14.25	19.00	11122060
10.00	8	DIN	Red	21.0	12	4.6	7.5	288-1032-ND	3.80	14.25	19.00	11121100
16.00	6	DIN	Blue	23.0	12	6.0	8.8	288-1034-ND	5.20	19.50	26.00	11121160
25.00	4	DIN	Yellow	29.0	16	7.5	11.0	288-1036-ND	13.20	49.50	66.00	11161250

* Does not conform to DIN 46228 Part 4

Note: For additional sizes, please visit our web site.

Twin-Wire Ferrules for Two Wires

Material: Copper/Plastic
Surface: Tin-plated

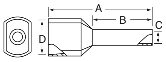

Size (mm^2)	AWG	Color	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 10	50	100	AE Part No.
2 x 0.50	2 x 20	White	15.0	8.0	1.5	2.3 / 4.5	288-1124-ND	1.60	7.00	12.00	1381050
2 x 0.75	2 x 20	Gray	15.0	8.0	1.8	2.6 / 5.1	288-1125-ND	1.60	7.00	12.00	1381075
2 x 0.75	2 x 20	Gray	17.0	10.0	1.8	2.6 / 5.1	288-1126-ND	2.04	8.93	15.30	13101075
2 x 1.00	2 x 18	Red	15.0	8.0	2.05	3.2 / 5.1	288-1127-ND	1.88	8.23	14.10	1381010
2 x 1.00	2 x 18	Red	17.0	10.0	2.05	3.2 / 5.1	288-1128-ND	2.60	11.38	19.50	13101010
2 x 1.50	2 x 16	Black	16.0	8.0	2.3	3.5 / 6.4	288-1129-ND	2.24	9.80	16.80	1381015
2 x 1.50	2 x 16	Black	20.0	12.0	2.3	3.5 / 6.4	288-1130-ND	3.20	14.00	24.00	13121015
2 x 2.50	2 x 14	Blue	18.5	10.0	2.9	4.0 / 7.5	288-1131-ND	3.20	14.00	24.00	13101025
2 x 2.50	2 x 14	Blue	21.5	13.0	2.9	4.0 / 7.5	288-1132-ND	3.20	14.00	24.00	13131025
2 x 4.00	2 x 12	Gray	23.0	12.0	3.8	4.9 / 8.6	288-1133-ND	5.80	21.75	29.00	13121040
2 x 6.00	2 x 10	Yellow	25.0	14.0	4.9	5.8 / 9.6	288-1134-ND	6.20	23.25	31.00	13141060
2 x 10.0	2 x 8	Red	26.0	14.0	6.5	7.0 / 12.6	288-1135-ND	7.60	28.50	38.00	13141100
2 x 16.0	2 x 6	Blue	31.0	16.0	8.5	8.8 / 16.6	288-1136-ND	20.00	87.50	150.00	13161160

Wire Ferrules – Non-Insulated

Material: Copper
Surface: Tin-plated

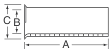

Size (mm^2)	AWG	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 10	50	100	AE Part No.
0.25	24	5	0.8	1.7	288-1077-ND*	.60	2.63	4.50	12510025
		7	0.8	1.7	288-1078-ND*	.60	2.63	4.50	12710025
0.34	22	5	0.9	1.8	288-1079-ND*	.64	2.80	4.80	12510034
		7	0.9	1.8	288-1080-ND*	.64	2.80	4.80	12710034
0.50	20	6	1.0	2.1	288-1081-ND	.68	2.98	5.10	12610050
		8	1.0	2.1	288-1082-ND*	.72	3.15	5.40	12810050
		10	1.0	2.1	288-1083-ND	.72	3.15	5.40	121010050
0.75	20	6	1.2	2.3	288-1084-ND	.84	3.68	6.30	12610075
		8	1.2	2.3	288-1085-ND*	.84	3.68	6.30	12810075
		10	1.2	2.3	288-1086-ND	.88	3.85	6.60	121010075
		12	1.2	2.3	288-1087-ND	.96	4.20	7.20	121210075
1.00	18	6	1.4	2.5	288-1088-ND	.88	3.85	6.60	12610100
		7	1.4	2.5	288-1089-ND	.88	3.85	6.60	12710100
		8	1.4	2.5	288-1090-ND*	.88	3.85	6.60	12810100
		10	1.4	2.5	288-1091-ND	.88	3.85	6.60	121010100
		12	1.4	2.5	288-1092-ND*	1.00	4.38	7.50	121210100
1.50	16	7	1.7	2.8	288-1093-ND	.92	4.03	6.90	12710150
		8	1.7	2.8	288-1094-ND	.92	4.03	6.90	12810150
		10	1.7	2.8	288-1095-ND	.96	4.20	7.20	121010150
		12	1.7	2.8	288-1096-ND	1.08	4.73	8.10	121210150
		15	1.7	2.8	288-1097-ND*	1.08	4.73	8.10	121510150
2.50	14	7	2.2	3.4	288-1099-ND	1.16	5.08	8.70	12710250
		8	2.2	3.4	288-1100-ND	1.16	5.08	8.70	12810250
		10	2.2	3.4	288-1101-ND	1.16	5.08	8.70	121010250
		12	2.2	3.4	288-1102-ND	1.16	5.08	8.70	121210250
4.00	12	9	2.8	4.0	288-1105-ND	1.12	4.90	8.40	12910400
		10	2.8	4.0	288-1106-ND	1.12	4.90	8.40	121010400
		12	2.8	4.0	288-1107-ND	1.00	4.38	7.50	121210400
6	10	10	3.5	4.7	288-1110-ND	2.24	9.80	16.80	121010600
		12	3.5	4.7	288-1111-ND	2.24	9.80	16.80	121210600
10.00	8	12	4.5	5.8	288-1114-ND	2.00	8.75	15.00	1212110
25.00	4	12	7.3	9.5	288-1121-ND*	10.40	45.50	78.00	1212125

* Does not conform to DIN 46228 Part 1

Assortment Boxes

288-1147-ND	**Assortment Box 1 — 150 pieces DIN Type** (30 pieces each of sizes 0.25, 0.34, 0.50, 0.75, and 1.00)	**$50.00**
288-1153-ND	**Assortment Box 1 — 150 pieces W Type** (30 pieces each of sizes 0.25, 0.34, 0.50, 0.75, and 1.00)	**$50.00**
288-1148-ND	**Assortment Box 2 — 400 pieces DIN Type** (50 pieces each of sizes 0.50 and 2.50; 100 pieces each of sizes 0.75, 1.00, and 1.50)	**$75.00**
288-1154-ND	**Assortment Box 2 — 400 pieces W Type** (50 pieces each of sizes 0.50 and 2.50; 100 pieces each of sizes 0.75, 1.00, and 1.50)	**$75.00**
288-1149-ND	**Assortment Box 3 — 100 pieces DIN Type** (50 pieces each of size 4.00; 20 pieces each of sizes 6.00 and 10.00, 10 pieces of size 16.00)	**$62.50**
288-1155-ND	**Assortment Box 3 — 100 pieces W Type** (50 pieces each of size 4.00; 20 pieces each of sizes 6.00 and 10.00, 10 pieces of size 16.00)	**$62.50**
288-1156-ND	**Assortment Box 7 — 1,800 pieces** (500 pieces of size 0.50; 400 pieces each of sizes 0.75 and 1.00; 300 pieces of size 1.50; 200 pieces of Size 2.50)	**$87.50**
288-1157-ND	**Assortment Box 8 — 370 pieces** (150 pieces of size 4.00; 100 pieces of size 6.00; 80 pieces of size 10.00; 40 pieces of size 16.00)	**$75.00**

Crimp Kit

Features: • Convenient and Portable Metal Carrying Case • Insulated Ferrules • Ferrule Assortment from 10-24 AWG • Stripping and Crimping Tool Included • Great for Technicians and Prototyping

288-1238-ND (AE Part # CRIMPKIT) **$490.00**

Crimp Tools

288-1163-ND	Prototype Tool For 10-22 AWG Ferrules (AE Part # TRAP 22-10)	**$43.73**
288-1158-ND	For 10-24 AWG Ferrules (AE Part # TRAP 24-10)	**$175.00**
288-1159-ND	For 4-8 AWG Ferrules (AE Part # TRAP 8-4)	**$188.46**
288-1161-ND	For 10-28 AWG Ferrules (AE Part # SQ 28-10)	**$210.00**
288-1162-ND	For 8-12 AWG Ferrules (AE Part # TRAP 12-8 TW)	**$250.72**
288-1234-ND	Pneumatic Hand Tool For 14-24 AWG (AE Part # PC 24-14H)	**$636.56**
288-1235-ND	Pneumatic Bench Tool For 14-24 AWG (AE Part # PC 24-14B)	**$842.19**
288-1236-ND	Pneumatic Hand Tool For 8-12 AWG (AE Part # PC 12-8H)	**$745.94**
288-1237-ND	Pneumatic Bench Tool For 8-12 AWG (AE Part # PC 12-8B)	**$951.56**

DIN Rail Mounted Terminal Blocks and Accessories

Fig. 1

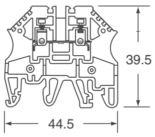

Fig. 2

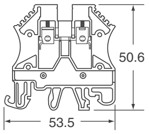

Fig. 3

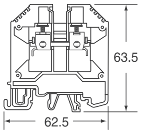

Fig. 4

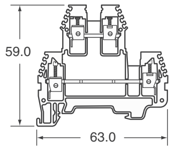

Fig. 5

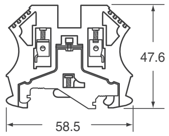

Fig. 6

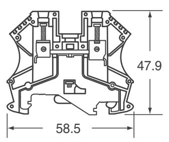

Fig.7

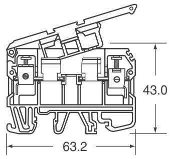

Fig.8

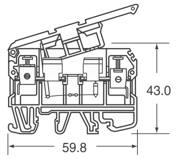

Fig.9

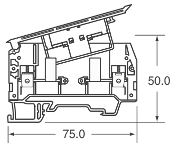

Fig.10

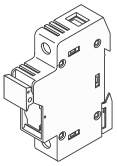

Fig. 11

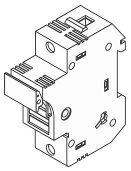

PEK Series: These terminal blocks are manufactured from a thermoplastic material and are mountable to TS35 and TS32 DIN Rails. Terminal Blocks are beige in color.
PIK Seris: The double decker version of the PEK. Double deck allows for two separate busses (PIK4N) or 2 busses joined together (PIK4NK) to allow multiple connections to a common bus.

DIN RAIL MOUNTED FEED-THROUGH TERMINALS											ACCESSORIES (See Accessories Section)			
Fig.	Series	Terminal Width (mm)	UL Volts (V)	UL Amps	Wire Gauge (AWG)	Digi-Key Part No.	Price Each 1	10	50	American Electrical Part No.	Marking Tags	End Bracket	End Plate	Cross Connection
1	PEK 2.5 K	5	600	18	26-12	288-1239-ND	.75	.68	.60	305110	DY 5	495040	445110	475112, 475113, 475114, 475119
2	PEK 2.5	6	600	26	26-12	288-1240-ND	.75	.68	.60	305120	DY 5	495040	445150	475122, 475123, 475124, 475129
	PEK 4	6.5	600	34	26-10	288-1241-ND	.88	.79	.70	305130	DY 5	495040	445150	475132, 475133, 475134, 475139
	PEK 6	8	600	44	26-8	288-1242-ND	1.05	.95	.84	305140	DY 5	495040	445150	475142, 475143, 475144, 475149
	PEK 10	10	600	50	16-8	288-1243-ND	1.35	1.22	1.08	305150	DY 5	495040	445150	475152, 475153, 475154, 475159
3	PEK 16	12	600	65	14-6	288-1244-ND	1.98	1.78	1.58	305160	DY 5	495040	445170	475162, 475163, 475164, 475169
	PEK 35	16	600	115	10-2	288-1245-ND	5.40	4.86	4.32	305170	DY 5	495040	445170	475172, 475173, 475174, 475179
Double Deck														
4	PIK 4 N	6	300	32	26-10	288-1246-ND	1.48	1.33	1.19	319100	DY 5	495040	449010	474132, 474133, 474134, 474139
	PIK 4 NK	6	300	32	26-10	288-1247-ND	4.24	3.82	3.39	319120	DY 5	495040	449010	474132, 474133, 474134, 474139

WGT Series: These Ground Terminals can be used on both TS35 and TS32 DIN Rails. The Yellow/Green color combination meets international standards for ground labeling. The internal metal parts electrically connect the field wiring to the DIN Rail. DIN Rails mounted to metallic cabinetry and connected to earth, complete the proper grounding process.

DIN RAIL MOUNTED GROUNDING TERMINALS								ACCESSORIES (See Accessories Section)			
Fig.	Series	Wire Gauge (AWG)	Digi-Key Part No.	Price Each 1	10	50	American Electrical Part No.	Marking Tags	End Bracket	End Plate	Cross Connection
5	WGT 2.5	26-12	288-1248-ND	2.49	2.24	1.99	331120	DY 5	495040	—	—
6	WGT 4	26-10	288-1249-ND	2.68	2.42	2.15	331130	DY 5	495040	—	—
	WGT 6	20-8	288-1250-ND	2.88	2.59	2.31	331140	DY 5	495040	—	—
	WGT 10	16-6	288-1251-ND	3.14	2.83	2.52	331150	DY 5	495040	—	—

ASK 2 Series: • Maximum Current: 6.3A • Wire Range: 26-8 AWG **ASK 4 Series:** • Maximum Current: 6.3A • Wire Range: 22-8 AWG

DIN RAIL MOUNTED FUSE TERMINALS									ACCESSORIES (See Accessories Section)			
Fig.	Series	Terminal Width (mm)	Maximum Voltage (UL)	Digi-Key Part No.	Price Each 1	10	50	American Electrical Part No.	Marking Tags	End Bracket	End Plate	Cross Connection
Accepts 5 x 20mm and 5 x 25mm Fuse												
7	ASK 2 S	8	300V	288-1252-ND	2.74	2.47	2.19	351100	DY 5	495040	450040	—
	ASK 2 LD	8	110VAC	288-1254-ND‡	3.95	3.56	3.16	351510	DY 5	495040	450040	—
8	ASK 2 LD	8	24VDC	288-1253-ND‡	3.66	3.30	2.93	351220	DY 5	495040	450040	—
Accepts 1 1/4” x 1/4” Fuse												
9	ASK 4 S	10	600V	288-1255-ND	6.12	5.51	4.90	351120	DY 5	495040	Included	—
	ASK 4 LD	10	24VDC	288-1256-ND‡	8.75	7.88	7.00	351720	DY 5	495040	Included	—
	ASK 4 LD	10	110VAC	288-1257-ND‡	8.75	7.88	7.00	351750	DY 5	495040	Included	—

‡ With LED Fuse Blown Indicator

(Continued)

Applications requiring circuit protection are often specified with fuses instead of circuit breakers. These fuse holders are capable of protecting circuits utilizing popular size fuses. **Specifications**: **ASK 4 Series:** • Maximum Voltage: 600V • Maximum Current: 32 Amp • Wire Size: 26-6 AWG **ASK 6 Series:** • Maximum Voltage: 600V • Maximum Current: 50 Amp • Wire Size: 26-6 AWG

DIN RAIL MOUNTED FUSE HOLDERS

Fig.	Series	Terminal Width (mm)	No. of Poles	Digi-Key Part No.	Price Each 1	10	50	American Electrical Part No.
Accepts 1.5" x 13/32" Fuse								
10	ASK 4	17	1	288-1301-ND	4.03	3.63	3.23	2541000
			2	288-1303-ND	8.06	7.26	6.45	2543000
			3	288-1305-ND	12.06	10.86	9.65	2544000
Accepts 1.5" x 13/32" Fuse — With Fuse Blown Indicator								
10	ASK 4	17	1	288-1302-ND	10.57	9.52	8.46	2541100
			2	288-1304-ND	21.15	19.04	16.92	2543100
			3	288-1306-ND	31.72	28.55	25.38	2544100
Accepts 2.0" x 0.55" Fuse								
11	ASK 6	27	1	288-1307-ND	9.25	8.33	7.40	2561000
			2	288-1309-ND	18.50	16.65	14.80	2563000
			3	288-1311-ND	28.00	25.20	22.40	2564000
Accepts 2.0" x 0.55" Fuse — With Fuse Blown Indicator								
11	ASK 6	27	1	288-1308-ND	23.38	21.04	18.70	2561100
			2	288-1310-ND	47.50	42.75	38.00	2563100
			3	288-1312-ND	72.50	65.25	58.00	2564100

Accessories

Series	No. of Positions	Digi-Key Part No.	Price Each 1	10	50	American Electrical Part No.
End Bracket						
KD 3	—	288-1295-ND	.44	.40	.36	495040
End Plates						
NPP 2.5 K	—	288-1258-ND	.22	.20	.18	445110
NPP 2.5-10	—	288-1259-ND	.35	.32	.28	445150
NPP 16-35	—	288-1260-ND	.56	.51	.46	445170
NPP PIK 4 Q	—	288-1261-ND	.96	.87	.77	449010
NPP ASK 2	—	288-1262-ND	1.00	.90	.80	450040

Series	No. of Positions	Digi-Key Part No.	Price Each 1	10	50	American Electrical Part No.
Cross Connection Jumpers						
UK 2.5 K/2	2	288-1263-ND	1.24	1.12	.99	475112
UK 2.5 K/3	3	288-1264-ND	1.84	1.66	1.48	475113
UK 2.5 K/4	4	288-1265-ND	2.43	2.19	1.95	475114
UK 2.5 K/10	10	288-1266-ND	5.68	5.12	4.55	475119
UK 2.5/2	2	288-1267-ND	1.12	1.01	.90	475122
UK 2.5/3	3	288-1268-ND	1.68	1.52	1.35	475123
UK 2.5/4	4	288-1269-ND	2.43	2.19	1.95	475124
UK 2.5/10	10	288-1270-ND	5.33	4.80	4.27	475129
UK 4/2	2	288-1271-ND	1.97	1.77	1.58	475132
UK 4/3	3	288-1272-ND	2.85	2.57	2.28	475133
UK 4/4	4	288-1273-ND	3.70	3.33	2.96	475134
UK 4/10	10	288-1274-ND	8.06	7.26	6.45	475139
UK 6/2	2	288-1275-ND	2.06	1.86	1.65	475142
UK 6/3	3	288-1276-ND	2.89	2.60	2.31	475143
UK 6/4	4	288-1277-ND	3.95	3.56	3.16	475144
UK 6/10	10	288-1278-ND	8.20	7.38	6.56	475149
UK 10/2	2	288-1279-ND	2.16	1.95	1.73	475152
UK 10/3	3	288-1280-ND	3.03	2.73	2.42	475153
UK 10/4	4	288-1281-ND	3.95	3.56	3.16	475154
UK 10/10	10	288-1282-ND	9.45	8.51	7.56	475159
UK 16/2	2	288-1283-ND	2.16	1.95	1.73	475162
UK 16/3	3	288-1284-ND	3.03	2.73	2.42	475163
UK 16/4	4	288-1285-ND	4.17	3.75	3.34	475164
UK 16/10	10	288-1286-ND	9.42	8.48	7.54	475169
UK 35/2	2	288-1287-ND	2.13	1.92	1.71	475172
UK 35/3	3	288-1288-ND	3.03	2.73	2.42	475173
UK 35/4	4	288-1289-ND	4.33	3.90	3.47	475174
UK 35/10	10	288-1290-ND	9.52	8.57	7.62	475179
UK 4/2	2	288-1291-ND	1.72	1.56	1.38	474132
UK 4/3	3	288-1292-ND	2.31	2.09	1.86	474133
UK 4/4	4	288-1293-ND	3.02	2.72	2.42	474134
UK 4/10	10	288-1294-ND	7.41	6.67	5.93	474139
Marking Tags						
DY 5	1-10	288-1296-ND	1.60	1.44	1.28	505020
DY 5	10-50	288-1297-ND	1.60	1.44	1.28	505040
DY 5	51-100	288-1298-ND	1.60	1.44	1.28	505041
DY 5	101-150	288-1299-ND	1.60	1.44	1.28	505042
DY 5	151-200	288-1300-ND	1.60	1.44	1.28	505043

DIN Rail Mounted Interface Modules and Cables

D-Sub Specifications:
• Maximum Current: 1A • Wire Range: 22-14 AWG • Operating Temperature: -10°C ~ 50°C

IDC Specifications:
• Maximum Current: 2A • Wire Range: 22-14 AWG • Operating Temperature: -10°C ~ 50°C

Fig. 1

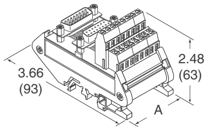

Fig. 2

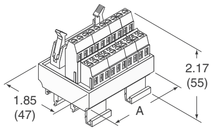

Fig.	Description	Dimension A Inches (mm)	Digi-Key Part No.	Price Each 1	10	50	American Electrical Part No.
Interface Modules							
1	9 Pin D-Sub Male and Female to Screw Block	1.53 (39)	288-1347-ND	53.08	46.45	39.81	DSUB-9-MF
	15 Pin Male and Female to Screw Block	1.93 (49)	288-1343-ND	74.57	65.25	55.93	DSUB-15-MF
	25 Pin D-Sub Male and Female to Screw Block	2.87 (73)	288-1345-ND	94.24	82.46	70.68	DSUB-25-MF
2	20 Pin Male IDC Header to Screw Block	2.26 (57.5)	288-1350-ND	48.43	42.38	36.33	IDC-20-M
	24 Pin Male IDC Header to Screw Block	2.72 (69)	288-1352-ND	64.58	56.52	48.44	IDC-24-M
	40 Pin Male IDC Header to Screw Block	4.47 (113.5)	288-1353-ND	93.66	81.96	70.25	IDC-40-M
Cables for Modules							
—	9 Pin D-Sub Cable Male to Female 2M	—	288-1348-ND	23.86	20.88	17.90	DSUB-9-MF-CBL
	15 Pin D-Sub Cable Male to Female 2M	—	288-1344-ND	23.04	20.16	17.28	DSUB-15-MF-CBL
	25 Pin D-Sub Cable Male to Female 2M	—	288-1346-ND	24.88	21.77	18.66	DSUB-25-MF-CBL
	20 Pin Male IDC Single End 2M	—	288-1349-ND	52.84	46.24	39.63	IDC-20-M-CBL
	24 Pin Male IDC Single End 2M	—	288-1351-ND	70.74	61.90	53.06	IDC-24-M-CBL

DIN Rail

Features: • Steel Design • CE Approved • Zinc Plated • No Markings on Rail

Unslotted
7.55mm x 35mm

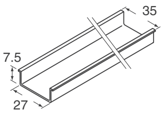

Slotted
7.55mm x 35mm

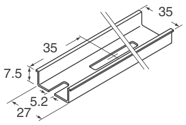

Unslotted
15mm x 35mm

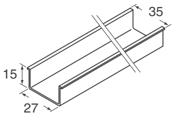

Slotted
15mm x 35mm

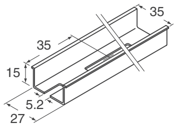

Sold in 1" increments from 3" to 78".

Call for custom lengths and pricing!

Note: Lengths exceeding 48" may incur additional shipping charges.

PART NUMBERING SYSTEM

ADR□□□□-□□□□□-ND

A = AMERICAN ELECTRICAL INC
DR = DIN RAIL
Width and height in MM
3575 = 35MM X 7.55MM
3515 = 35MM X 15MM
S = Slotted
U = Unslotted
Length in inches with an implied decimal point after the second digit. Example: 3 IN = 0300

Length (In.)	Digi-Key Part No.	"U" Price Each 1	10	100	"S" Price Each 1	10	100
3	ADR3575-□0300-ND	1.44	1.08	.75	1.44	1.08	.75
4	ADR3575-□0400-ND	1.61	1.22	.88	1.61	1.22	.88
5	ADR3575-□0500-ND	1.63	1.26	.94	1.63	1.26	.94
6	ADR3575-□0600-ND	1.88	1.45	1.09	1.88	1.45	1.09
7	ADR3575-□0700-ND	2.15	1.66	1.25	2.15	1.66	1.25
8	ADR3575-□0800-ND	2.40	1.87	1.40	2.40	1.87	1.40
9	ADR3575-□0900-ND	2.65	2.07	1.55	2.65	2.07	1.55
10	ADR3575-□1000-ND	2.89	2.25	1.69	2.89	2.25	1.69
11	ADR3575-□1100-ND	3.11	2.44	1.83	3.11	2.44	1.83
12	ADR3575-□1200-ND	3.32	2.61	1.96	3.32	2.61	1.96
24	ADR3575-□2400-ND	5.02	4.02	3.02	5.02	4.02	3.02
36	ADR3575-□3600-ND	6.57	5.26	3.98	6.57	5.26	3.98
48	ADR3575-□4800-ND	7.97	6.38	4.88	7.97	6.38	4.88
—	ADR3575-□7874-ND*	11.12	8.75	6.84	11.12	8.75	6.84

Length (In.)	Digi-Key Part No.	"U" Price Each 1	10	100	"S" Price Each 1	10	100
3	ADR3515-□0300-ND	1.51	1.14	.80	1.51	1.14	.80
4	ADR3515-□0400-ND	1.64	1.25	.91	1.64	1.25	.91
5	ADR3515-□0500-ND	1.74	1.34	1.01	1.74	1.34	1.01
6	ADR3515-□0600-ND	2.05	1.58	1.19	2.05	1.58	1.19
7	ADR3515-□0700-ND	2.34	1.81	1.36	2.34	1.81	1.36
8	ADR3515-□0800-ND	2.61	2.03	1.53	2.61	2.03	1.53
9	ADR3515-□0900-ND	2.87	2.24	1.68	2.87	2.24	1.68
10	ADR3515-□1000-ND	3.12	2.44	1.83	3.12	2.44	1.83
11	ADR3515-□1100-ND	3.35	2.63	1.98	3.35	2.63	1.98
12	ADR3515-□1200-ND	3.57	2.81	2.11	3.57	2.81	2.11
24	ADR3515-□2400-ND	5.20	4.16	3.12	5.20	4.16	3.12
36	ADR3515-□3600-ND	7.05	5.65	4.28	7.05	5.65	4.28
48	ADR3515-□4800-ND	8.43	6.75	5.19	8.43	6.75	5.19
—	ADR3515-□7874-ND*	11.78	9.21	7.25	11.78	9.21	7.25

Note: □ S = Slotted, U = Unslotted * 2 meter length

Weidmüller DIN Rail - Mounted Terminal Blocks and Accessories

Fig. 1 - WDU 2.5N

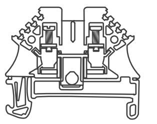

- Termination Block Width: 5mm
- Wire Size (UL): 24~12 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 25A

Fig. 2 - WDU 2.5

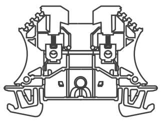

- Termination Block Width: 5mm
- Wire Size (UL):-22~12 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 25A

Fig. 3 - WDU 4

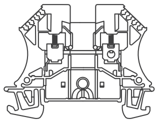

- Termination Block Width: 6mm
- Wire Size (UL): 22~10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 35A

Fig. 4 - WDU 6

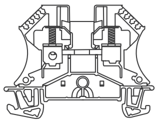

- Termination Block Width: 8mm
- Wire Size (UL): 20~8 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 45A

Fig. 5 - WDU 10

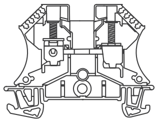

- Termination Block Width: 10mm
- Wire Size (UL): 16~6 AWG
- Voltage Approval (UL): 1000V
- Current Approval (UL): 65A

Fig. 6 - WDU 16

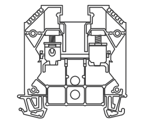

- Termination Block Width: 12mm
- Wire Size (UL): 14~6 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 70A

Fig. 7 - WDK 2.5N

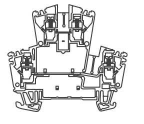

- Termination Block Width: 5mm
- Wire Size (UL): 22~12 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 20A

Fig. 8 - WDK 2.5 DU-PE

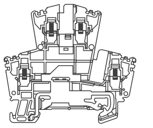

- Termination Block Width: 5mm
- Wire Size (UL): 22~12 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 20A

Fig. 9 - WDU 1.5/R 3.5

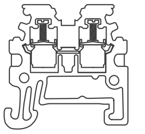

- Termination Block Width: 3.5mm
- Wire Size (UL): 26~14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

Fig. 10 - WDK 1.5/R 3.5

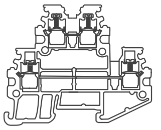

- Termination Block Width: 3.5mm
- Wire Size (UL): 26~14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

Fig. 11 - WDK 4N

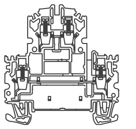

- Termination Block Width: 6mm
- Wire Size (UL): 22~10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 35A

Fig. 12 - WDK 4NV

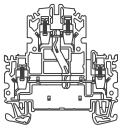

- Termination Block Width: 6mm
- Wire Size (UL): 22~10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 35A

Fig. 13 - WDK 2.5 NV

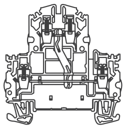

- Termination Block Width: 5mm
- Wire Size (UL): 26~12 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 20A

TERMINAL BLOCKS							ACCESSORIES (See Descriptions and Prices Below)							
			Price Each											
Fig.	Series	Digi-Key Part No.	1	10	100	Weidmuller Part No.	Grounding Blocks	End Plates	End Brackets	Partitions	Jumpers/ Jumper Links	Notching Tools	DIN Rail	Marking Tags
1	WDU 2.5N	281-1466-ND◆	1.65	1.49	1.32	1040800000	281-1490-ND	281-1499-ND	281-1503-ND	—	281-1505-ND	281-1533-ND	281-1534-ND	281-1550-ND
2	WDU 2.5	281-1467-ND◆	1.31	1.18	1.05	1020000000	281-1491-ND	281-1500-ND	281-1503-ND	—	281-1505-ND	281-1533-ND	281-1534-ND	281-1550-ND
3	WDU 4	281-1468-ND	1.41	1.27	1.13	1020100000	281-1492-ND	281-1500-ND	281-1503-ND	—	281-1514-ND	281-1533-ND	281-1534-ND	281-1551-ND
4	WDU 6	281-1469-ND◆	2.09	1.89	1.68	1020200000	281-1493-ND	281-1500-ND	281-1503-ND	—	281-1518-ND 281-1521-ND	281-1533-ND	281-1534-ND	—
5	WDU 10	281-1470-ND◆	2.79	2.51	2.24	1020300000	281-1494-ND	281-1500-ND	281-1503-ND	—	281-1522-ND 281-1525-ND	281-1533-ND	281-1534-ND	—
6	WDU 16	281-1471-ND	5.33	4.80	4.26	1020400000	281-1495-ND	—	281-1502-ND	—	281-1529-ND	281-1533-ND	281-1534-ND	—
7	WDK 2.5N	281-1472-ND	4.41	3.98	3.54	1041100000	281-1496-ND	—	281-1502-ND	281-1501-ND	281-1505-ND 281-1506-ND	281-1533-ND	281-1534-ND	281-1550-ND
8	WDK 2.5 DU-PE	281-1555-ND	6.68	6.01	5.34	1036400000	281-1496-ND	—	281-1502-ND	281-1501-ND	—	281-1533-ND	281-1534-ND	281-1550-ND
9	WDU 1.5/R 3.5	281-1476-ND	1.77	1.59	1.42	1753280000	—	281-1478-ND	281-1480-ND	—	281-1481-ND 281-1482-ND	281-1533-ND	281-1535-ND	281-1536-ND 281-1537-ND
10	WDK 1.5/R 3.5	281-1477-ND	3.85	3.47	3.08	1753290000	—	281-1479-ND	281-1480-ND	—	281-1481-ND 281-1482-ND	281-1533-ND	281-1535-ND	281-1536-ND 281-1537-ND
11	WDK 4N	281-1473-ND	5.99	5.39	4.79	1041900000	281-1497-ND	—	281-1502-ND	281-1501-ND	281-1514-ND 281-1515-ND	281-1533-ND	281-1534-ND	281-1550-ND
12	WDK 4NV	281-1474-ND	8.43	7.59	6.75	1041910000	281-1497-ND	—	281-1502-ND	281-1501-ND	281-1514-ND 281-1515-ND	281-1533-ND	281-1534-ND	281-1550-ND
13	WDK 2.5 NV	281-1475-ND◆	9.00	8.10	7.21	1041610000	281-1497-ND	—	281-1502-ND	281-1501-ND	281-1505-ND 281-1506-ND	281-1533-ND	281-1534-ND	281-1550-ND

◆ *RoHS Compliant*

Accessories

Description	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
Grounding Blocks					
WPE 2.5N	281-1490-ND	5.92	5.33	4.74	1016200000
WPE 2.5	281-1491-ND◆	6.83	6.15	5.47	1010000000
WPE 4	281-1492-ND◆	7.03	6.33	5.63	1010100000
WPE 6	281-1493-ND	7.29	6.57	5.84	1010200000
WPE 10	281-1494-ND	8.15	7.34	6.52	1010300000
WPE 16	281-1495-ND	9.90	8.91	7.92	1010400000
WDK 2.5N DU-PE	281-1496-ND*	8.00	7.21	6.41	1041650000
WDK 4N PE	281-1497-ND†	8.72	7.85	6.98	1041920000
End Plates — RoHS Compliant					
WAP WDU 1.5/R 3.5	281-1478-ND	.37	.34	.30	1754190000
WAP WDK 1.5/R 3.5	281-1479-ND	.99	.90	.80	1754200000
WAP WDU 1.5	281-1499-ND	.91	.83	.74	1060000000
WAP WDU 2.5	281-1500-ND	.96	.87	.77	1050000000
End Brackets					
EW 15	281-1480-ND	.77	.70	.62	3828600000
WEW 35/1	281-1502-ND	4.80	4.33	3.85	1061200000
WEW 35/2	281-1503-ND◆	2.22	2.00	1.78	1059000000
Partitions					
WTW	281-1501-ND	5.25	4.73	4.21	1058800000
Jumpers					
ZQV 1.5/R 3.5/2 GE	281-1481-ND◆	.59	.53	.48	1754210000
ZQV 1.5/R 3.5/3 GE	281-1482-ND	1.16	1.05	.93	1754220000
ZQV 2.5N/2	281-1505-ND◆	.64	.58	.51	1693800000
ZQV 2.5N/3	281-1506-ND	1.19	1.08	.96	1693810000
ZQV 4N/2	281-1514-ND	1.25	1.13	1.01	1758250000
ZQV 4N/3	281-1515-ND	1.86	1.68	1.49	1762630000
ZQV 4N/10	281-1517-ND	6.04	5.44	4.84	1758260000

Description	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
Jumper Links					
WQV 6/2	281-1518-ND◆	1.77	1.59	1.42	1052360000
WQV 6/3	281-1519-ND	2.71	2.44	2.17	1054760000
WQV 6/4	281-1520-ND◆	3.42	3.09	2.74	1054860000
WQV 6/10	281-1521-ND◆	8.47	7.63	6.78	1052260000
WQV 10/2	281-1522-ND◆	1.98	1.79	1.59	1052560000
WQV 10/3	281-1523-ND	2.79	2.51	2.24	1054960000
WQV 10/4	281-1524-ND	3.61	3.25	2.89	1055060000
WQV 10/10	281-1525-ND	8.64	7.78	6.92	1052460000
WQV 16/10	281-1529-ND◆	9.05	8.15	7.24	1053360000
Notching Tool					
Cutting Tool WAW 1	281-1533-ND	52.74	—	—	900450
Screwdrivers					
0.6 x 3.5	281-1530-ND◆	12.00	10.80	9.60	9008330000
0.8 x 4.0	281-1531-ND◆	16.26	14.64	13.01	9008340000
1.0 x 5.5	281-1532-ND	22.10	19.89	17.68	9008350000
DIN Rail - Slotted 1M					
TS 35 x 7.5mm	281-1534-ND	13.88	12.50	11.11	0514510000
TS 15 x 5.5mm	281-1535-ND◆	11.90	10.71	9.52	11751
Marking Pen					
STI - Black	281-1554-ND	8.99	8.09	7.19	508401694
Outlet Modules					
AC, Single	281-1560-ND	16.08	14.70	11.49	9915480000
AC, Duplex	281-1561-ND	23.36	21.36	16.69	9915490000
Fuse Block					
With Indicator	281-1562-ND◆	13.82	12.64	9.88	67601493

◆ *RoHS Compliant*
* Single level + ground † Double level grounding block

Description	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
Marker Strips					
DEK 5/3.5 MC Blank (unprinted)	281-1536-ND	10.22	9.20	8.18	1755270000
DEK 5/3.5 FS 1-10 Premarked (printed)	281-1537-ND	10.77	9.70	8.62	1762320001
DEK 5/5 Blank (unprinted)	281-1550-ND◆	3.10	2.79	2.48	0473360000
DEK 5/6 Blank (unprinted)	281-1551-ND	3.10	2.79	2.48	0468560000
DEK 5/8 Blank (unprinted)	281-1553-ND◆	3.29	2.97	2.64	1277060000

◆ *RoHS Compliant*

Grounding Blocks - Grounds connected wires to DIN rail

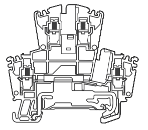

End Plates - Covers open end of terminal block

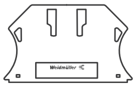

End Brackets - Clamps blocks into place on Rail

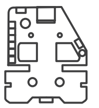

Partitions - WTW

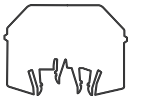

Jumpers - For cross connection ZQV

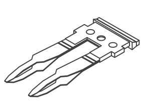

Jumper Links - For cross connection WQV

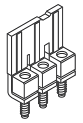

DIN Rail-with mounting holes

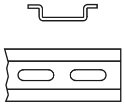

Marker Strips-Will mark termination points

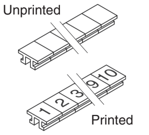

Fuse Block TS 35 DIN Rail with neon indicator

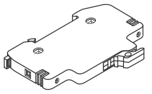

Outlet Modules-TS 35 DIN Rail

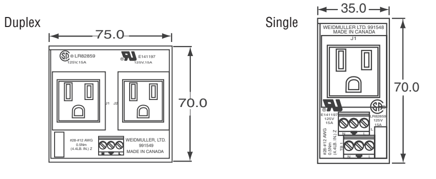

ON-SHORE TECHNOLOGY, INC.

DIN Rail Mounted Terminal Blocks and Accessories

Fig. 1

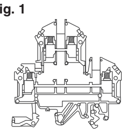

Color: Beige

Fig. 2

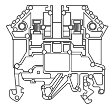

Color: Beige

Fig. 3

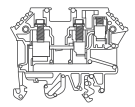

Color: Beige

Fig. 4

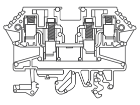

Color: Beige

Fig. 5

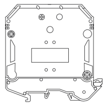

Color: Beige or Green/ Yellow

Fig. 6

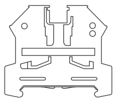

Color: Green/Yellow

Fig. 7

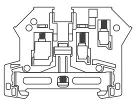

Color: Green/Yellow

Fig. 8

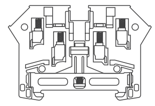

Color: Green/Yellow

Fig. 9

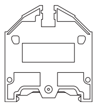

Color: Green/Yellow

Fig. 10

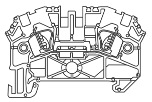

Color: Beige or Green/Yellow

Fig. 11

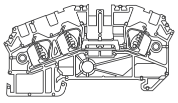

Color: Beige or Green/Yellow

Fig. 12

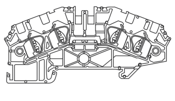

Color: Beige or Green/Yellow

Fig. 13

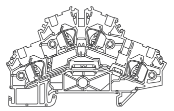

Color: Beige or Green/Yellow

Terminal Blocks							*Specifications*				*Accessories*								
Fig.	Series	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.	Dimensions L x W x H (mm)	Wire Size (AWG)	UL Rated Voltage (V)	UL Rated Current (A)	End Plate	Isolation Partition	Separator	End Bracket	Test Socket	Test Plug	Cross Connection	Marker Strip (Blank)	Marker Strip (1-10)
Screw Terminal																			
1	SRD 2.5	ED2542-ND	2.58	2.32	2.06	41206.2	59 x 5 x 60	22-14	300	20	2101.2	—	2566.2	2826.2	2075.0	2007.0	2567.0/2570.0	2430.0	2431.0
	SRD 4	ED2527-ND	2.69	2.42	2.15	41020.2	59 x 6 x 60	22-12	300	30	2101.2	—	2566.2	2826.2	2075.0	2007.0	2087.0/2090.0	2430.0	2431.0
2	SR 4	ED2525-ND◆	1.07	.96	.86	41001.2	48 x 6 x 47	22-10	600	40	2001.2	2002.2	2003.2	2826.2	2006.0	2007.0	2019.0/2740.2 & 2022.0/2743.2	2035.0	2036.0
3	SR 4 DR	ED2543-ND	2.07	1.87	1.66	41210.2	57 x 6 x 47	22-12	600	20	—	—	2003.2	2826.2	2006.0	2007.0	2019.0/2740.2 & 2022.0/2743.2	2035.0	2036.0
4	SR 4 DRL	ED2544-ND	2.89	2.60	2.31	41211.2	67 x 6 x 47	22-12	600	20	—	—	2003.2	2826.2	2006.0	2007.0	2019.0/2740.2 & 2022.0/2743.2	2035.0	2036.0
5	SR 150	ED2538-ND	27.64	24.88	22.11	41124.2	93 x 31 x 109	2-300MCM	600	275	—	—	—	2761.0	—	—	—	—	—
	SR 240	ED2539-ND	33.18	29.87	26.55	41126.2	93 x 36 x 123	2/0-500	600	370	—	—	—	2761.0	—	—	—	—	—
	SR 50	ED2536-ND	11.15	10.04	8.92	41120.2	79 x 20 x 76	6-1/0	600	150	—	—	—	2761.0	—	—	—	—	—
	SR 95	ED2537-ND	22.12	19.91	17.70	41122.2	84 x 25 x 88	2-4/0	600	230	—	—	—	2761.0	—	—	—	—	—
Tension Spring																			
10	ZR 2.5	ED2548-ND◆*	1.09	.99	.88	43500.2	59 x 5 x 39	20-12	600	27	3700.2	2957.2	—	—	—	—	3710.8/3718.8	2430.0	2431.0
	ZR 4	ED2553-ND*	1.29	1.16	1.03	43515.2	64 x 6 x 42	20-10	600	35	3703.2	2957.2	—	—	—	—	3720.8/3728.8	2035.0	2036.0
11	ZR 2.5 DR	ED2549-ND*	1.57	1.42	1.26	43501.2	71.3 x 5 x 39	20-12	600	27	3701.2	2957.2	—	—	—	—	3710.8/3718.8	2430.0	2431.0
	ZR 4 DR	ED2554-ND*	1.77	1.59	1.42	43516.2	78.5 x 6 x 42	20-10	600	35	3704.2	2957.2	—	—	—	—	3720.8/3728.8	2035.0	2036.0
12	ZR 4 DRL	ED2555-ND*	2.21	2.00	1.77	43517.2	93 x 6 x 42	20-10	600	35	3705.2	2957.2	—	—	—	—	3720.8/3728.8	2035.0	2036.0
13	ZRD 2.5	ED2559-ND	2.52	2.27	2.02	43562.2	84 x 5 x 53	20-12	300	10	3756.2	—	—	3748.2	—	—	3710.8/3718.8	2430.0	2431.0

Grounding Blocks											
Fig.	Series	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.	Dim. (mm) L x W x H	Wire Size (AWG)	Isolation Partition	Marker Strip (Blank)	Marker Strip (1-10)
5	SRSL 4-T15	ED2534-ND†	3.14	2.83	2.51	41064.2	32 x 7 x 32	22-10	—	—	—
6	SRSL 2.5-T35	ED2530-ND†	3.28	2.95	2.62	41056.2	52 x 6 x 47	22-14	—	2035.0	2036.0
	SRSL 4-T35	ED2545-ND†	3.50	3.15	2.80	41212.2	56 x 8 x 47	22-10	—	—	—
7	SRSL 2.5-T35 DR	ED2532-ND†	4.43	3.99	3.54	41060.2	62.5 x 6 x 47	22-14	—	2430.0	2431.0
8	SRSL 2.5-T35 DRL	ED2533-ND†	4.59	4.14	3.68	41062.2	67 x 6 x 47	22-14	—	2035.0	2036.0
9	SRSL 16-T35	ED2540-ND†	6.78	6.10	5.42	41197.2	56 x 12 x 58	12-6	—	—	—
	SRSL 35-T35	ED2541-ND†	9.10	8.19	7.28	41199.2	58 x 16 x 71	12-2	—	—	—
10	ZRSL 4	ED2556-ND†	3.84	3.46	3.07	43525.2	64 x 6 x 42	20-10	2957.2	2035.0	2036.0
11	ZRSL 4 DR	ED2557-ND†	4.62	4.16	3.70	43526.2	78.5 x 6 x 42	20-10	2957.2	2430.0	2431.0
12	ZRSL 2.5 DRL	ED2552-ND◆†	5.27	4.74	4.22	43512.2	83.6 x 5 x 39	20-12	2957.2	2430.0	2431.0
	ZRSL 4 DRL	ED2558-ND†	6.19	5.57	4.95	43527.2	93 x 6 x 42	20-10	2957.2	2035.0	2036.0
13	ZRSLD 2.5	ED2560-ND†	4.57	4.11	3.66	43567.2	84 x 5 x 53	20-12	—	2430.0	2431.0

◆ ***RoHS Compliant*** * UL approvals pending † Color: Green/Yellow

Accessories

END PLATES:

In general end plates are used at the end of each terminal row. If different terminals of different sizes are used on 1 terminal row, end plates are also used between these different sized terminals. The overall dimension of end plates conform to the dimension of the terminal to match.

ISOLATION PARTITIONS:

When operating with cross-connections, partition plates have to be mounted between the cross-connection. This is necessary in order to follow the prescribed air and creepage distances.

TEST-SOCKETS:

Sockets type STB are inserted in the busbar or screwed in the modular terminal in place of the terminal screw. They serve to take up the test sockets type PS.

TEST PLUGS:

Test plug type PS serve for the final testing of finished wired terminal strips.

CROSS-CONNECTION SYSTEMS:

Q - Cross connection; QI - For cross connections the cross connection bar, connection sleeve and fixing screw are already captively mounted with the corresponding number of poles.

Series	Description	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.
End Plates						
AP 1.5-4	—	ED2505-ND	.51	.46	.41	2738.2
AP 16	—	ED2495-ND◆	.79	.71	.63	2104.2
AP 2.5-10	—	ED2478-ND◆	.56	.51	.45	2001.2
AP-SR	—	ED2490-ND	.51	.46	.41	2070.2
ZAP 2.5/3A	—	ED2514-ND	.73	.66	.59	3701.2
ZAP 2.5/4A	—	ED2515-ND	.76	.68	.61	3702.2
ZAP 4/2A	—	ED2516-ND	.73	.66	.59	3703.2
ZAP 4/3A	—	ED2517-ND	.79	.71	.63	3704.2
ZAP 4/4A	—	ED2518-ND	.81	.74	.65	3705.2
ZAPD 2.5	—	ED2524-ND	1.18	1.06	.94	3756.2
Isolation Partitions — RoHS Compliant						
TW 2.5-10	—	ED2479-ND	.73	.66	.59	2002.2
End Brackets — RoHS Compliant						
ES 35/2/K	7.5mm	ED2481-ND	.59	.53	.47	2005.2
ES 35/2/K	8mm	ED2509-ND	.93	.84	.74	2826.2
Test Sockets						
STB 14/2.3	—	ED2482-ND	.34	.31	.27	2006.0
STB 8.5/2.3	—	ED2491-ND	.34	.31	.27	2075.0
Test Plug						
PS 2.3	—	ED2483-ND	2.89	2.60	2.31	2007.0

Series	Description	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.
Cross Connection Jumpers for Screw Terminal Blocks						
Q 2	—	ED2484-ND	1.01	.91	.81	2019.0
Q 2	—	ED2488-ND	1.49	1.34	1.19	2060.0
Q 2	—	ED2492-ND	1.01	.91	.81	2087.0
Q 2	—	ED2498-ND	1.01	.91	.81	2422.0
Q 2	—	ED2503-ND	1.01	.91	.81	2567.0
Q 2	—	ED2510-ND	1.01	.91	.81	2832.0
Q 10	—	ED2485-ND	4.34	3.91	3.48	2022.0
Q 10	—	ED2489-ND	6.89	6.20	5.51	2063.0
Q 10	—	ED2499-ND	4.34	3.91	3.48	2425.0
Q 10	—	ED2504-ND	4.34	3.91	3.48	2570.0
Q 10	—	ED2511-ND	4.34	3.91	3.48	2835.0
QI 2	—	ED2506-ND	1.21	1.09	.97	2740.2
QI 10	—	ED2507-ND	5.77	5.20	4.62	2743.2
Cross Connection Jumpers for Tension Spring Terminal Blocks						
ZQI 2.5/10	—	ED2520-ND◆	5.27	4.74	4.22	3718.8
ZQI 4/10	—	ED2522-ND	5.71	5.15	4.57	3728.8
ZQI 4/2	—	ED2521-ND	.65	.59	.52	3720.8
Marker Strips						
SB 5/10	Blank Strip/10 5mm	ED2500-ND◆	.55	.50	.44	2430.0
SB 6/10 FW 1-10	Printed Strip/10 6mm	ED2487-ND	.55	.50	.44	2036.0(1-10)

◆ ***RoHS Compliant***

DIN Rail Mounted Terminal Blocks and Accessories

Fig. 1 — MT 1.5
- Termination Block Width: 4.2mm
- Terminations per Linear Meter: 476
- Wire Size (UL): 30-14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

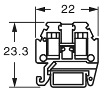

Fig. 2 — MTTB 1.5
- Termination Block Width: 4.2mm
- Terminations per Linear Meter: 952
- Wire Size (UL): 30-14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

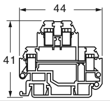

Fig. 3 — MBK 3/E-Z
- Termination Block Width: 5.2mm
- Terminations per Linear Meter: 384
- Wire Size (UL): 28-12 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 20A

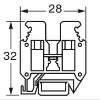

Fig. 4 — MBK 5/E-Z
- Termination Block Width: 6.2mm
- Terminations per Linear Meter: 322
- Wire Size (UL): 26-10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 30A

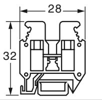

Fig. 5 — UK 1.5 N
- Termination Block Width: 4.2mm
- Terminations per Linear Meter: 476
- Wire Size (UL): 30-14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

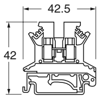

Fig. 6 — UK 2.5 N
- Termination Block Width: 5.2mm
- Terminations/Linear Meter: 384
- Wire Size (UL): 30-12 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 20A

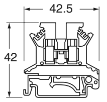

Fig. 7 — UK 5 N
- Termination Block Width: 6.2mm
- Terminations/Linear Meter: 322
- Wire Size (UL): 30-10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 30A

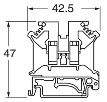

Fig. 8 — UK 6 N
- Termination Block Width: 8.2mm
- Terminations/Linear Meter: 242
- Wire Size (UL): 26-8 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 50A

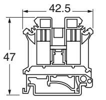

Fig. 9 — UK 10 N
- Termination Block Width: 10.2mm
- Terminations per Linear Meter: 196
- Wire Size (UL): 24-6 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 65A

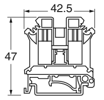

Fig. 10 — UKK 5
- Termination Block Width: 6.2mm
- Terminations/Linear Meter: 644
- Wire Size (UL): 26-10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 30A

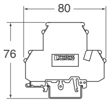

Fig. 11 — SLKK 5
- Termination Block Width: 6.2mm
- Terminations/Linear Meter: 805
- Wire Size (UL): 26-10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 30A

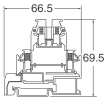

Fig. 12 — DIK 1.5
- Termination Block Width: 6.2mm
- Wire Size (UL): 30-14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

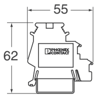

Fig. 13 — DIKD 1.5
- Termination Block Width: 6.2mm
- Wire Size (UL): 30-14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

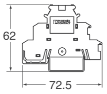

Fig. 14 — UDK 4
- Termination Block Width: 6.2mm
- Wire Size (UL): 30-10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 30A

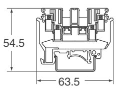

Fig. 15 — UK 4
- Termination Block Width: 6.2mm
- Wire Size (UL): 28-12 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 20A

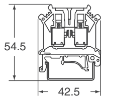

Fig. 16 — UK 5-HESI
- Termination Block Width: 8.2mm
- Wire Size (UL): 26-10 AW
- Voltage Approval (UL): 600V
- Current Approval (UL): 6.3A

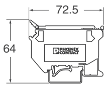

Fig. 17 — UKK 5-HESI
- Termination Block Width: 8.2mm
- Wire Size (UL): 24-8 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 30A

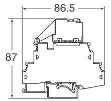

Fig. 18 — UK 6.3-HESI
- Termination Block Width: 10.2mm
- Wire Size (UL): 26-8 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 25A

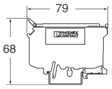

Terminal Blocks

Fig.	Series	Digi-Key Part No.	Price Each		Mfg. Part No.
			1	10	
1	MT 1.5	277-1506-ND	2.16	1.86	3100305
2	MTTB 1.5	277-1483-ND	5.27	4.52	1414129
3	MBK 3/E-Z	277-1481-ND	2.63	2.25	1413036
4	MBK 5/E-Z	277-1480-ND	2.53	2.17	1402940
5	UK 1.5 N	277-1504-ND	1.96	1.68	3005837
6	UK 2.5 N	277-1499-ND	1.88	1.61	3003347
7	UK 5 N	277-1501-ND	1.90	1.63	3004362
8	UK 6 N	277-1502-ND	2.58	2.21	3004524
9	UK 10 N	277-1503-ND	3.39	2.90	3005073
10	UKK 5	277-1491-ND	5.17	4.43	2774017
	UKK 5-TG	277-1563-ND	12.70	10.88	3007042

Fig.	Series	Digi-Key Part No.	Price Each		Mfg. Part No.
			1	10	
11	SLKK 5	277-1521-ND	10.02	8.59	0461018
12	DIK 1.5	277-1543-ND	5.32	4.56	2715966
13	DIKD 1.5	277-1544-ND	9.27	7.94	2715979
	DIKD 1.5-TG	277-1564-ND	9.70	8.31	2774237
	DIKD 1.5-2D	277-1565-ND	11.35	9.72	2716512
14	UDK 4	277-1576-ND	4.25	3.64	2775016
	UDK 4-TG	277-1554-ND	4.85	4.16	2777014
15	UK 4-TG	277-1556-ND	4.79	4.10	2812018
16	UK 5-HESI	277-1557-ND	7.87	6.75	3004100
	UK 5-HESILA 250	277-1558-ND	12.17	10.43	3004142

Fig.	Series	Digi-Key Part No.	Price Each		Mfg. Part No.
			1	10	
16	UK 5-HESILED 24	277-1559-ND	12.17	10.43	3004126
17	UKK 5-HESI (5x20)	277-1569-ND	14.89	13.70	3007204
	UKK 5-HESI (6.3x32)	277-1570-ND	15.59	14.35	3007217
	UKK 5-HESILA 250 (5x20)	277-1571-ND	22.21	20.44	0711629
	UKK 5-HESILED 24 (6.3x32)	277-1572-ND	22.26	20.48	0711632
	UKK 5-HESILA 250 (6.3x32)	277-1573-ND	23.15	21.30	0711616
	UKK 5-HESILED 24 (5x20)	277-1574-ND	20.99	19.32	3026654
18	UK 6.3-HESI	277-1560-ND	9.81	8.40	3004171
	UK 6.3-HESILED 24	277-1561-ND	12.15	11.18	3004265
	UK 6.3-HESILA 250	277-1562-ND	12.15	11.18	3004249

Accessories

Marker Strip: **U** = Unprinted **P** = Printed

Fig.	Series	Digi-Key Part No.	Grounding Block	End Cover	Spacer Cover	Spacer Plate	Partition Plate	Isolator Bridge Bar	Bridge Bar Isolator	Fixed Bridge	Marker Insertion Bridge	Strip		Marker Pen	Screwdriver	End Bracket	DIN Rail
												U	P				
1	MT 1.5	277-1506-ND	277-1507-ND	277-1508-ND	—	—	—	—	—	277-1494-ND	—	A	B	277-1474-ND	277-1477-ND	277-1485-ND	277-1509-ND
2	MTTB 1.5	277-1483-ND	—	277-1495-ND	277-1496-ND	277-1497-ND	—	—	—	277-1494-ND	—	A	B	277-1474-ND	277-1477-ND	277-1485-ND 277-1523-ND	277-1509-ND 277-1510-ND
3	MBK 3/E-Z	277-1481-ND	277-1482-ND	277-1484-ND	—	—	—	—	—	277-1488-ND	277-1486-ND	D	H, L	277-1474-ND	277-1478-ND	277-1485-ND	277-1509-ND
4	MBK 5/E-Z	277-1480-ND	277-1520-ND	277-1484-ND	—	—	—	—	—	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	277-1485-ND	277-1509-ND
5	UK 1.5 N	277-1504-ND	277-1505-ND	277-1493-ND	—	—	—	—	—	277-1494-ND	—	C	P, Q	277-1474-ND	277-1477-ND	277-1523-ND	277-1510-ND
6	UK 2.5 N	277-1499-ND	277-1517-ND	277-1493-ND	—	—	—	—	—	277-1488-ND	277-1486-ND	D	H, L	277-1474-ND	277-1478-ND	277-1523-ND	277-1510-ND
7	UK 5 N	277-1501-ND	277-1518-ND	277-1498-ND	—	—	—	—	—	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	277-1523-ND	277-1510-ND
8	UK 6 N	277-1502-ND	277-1519-ND	277-1498-ND	—	—	—	—	—	277-1515-ND	277-1512-ND	F	J, N	277-1474-ND	277-1479-ND	277-1523-ND	277-1510-ND
9	UK 10 N	277-1503-ND	277-1500-ND	277-1498-ND	—	—	—	—	—	277-1516-ND	277-1513-ND	G	K, O	277-1474-ND	277-1479-ND	277-1523-ND	277-1510-ND
10	UKK 5	277-1491-ND	277-1492-ND	277-1487-ND	277-1490-ND	277-1489-ND	—	—	—	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	—	277-1523-ND	277-1510-ND
	UKK 5-TG	277-1563-ND	—	—	—	—		277-1550-ND	277-1549-ND							—	—
11	SLKK 5	277-1521-ND	—	277-1487-ND	277-1490-ND	277-1489-ND	—	—	—	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	277-1523-ND	277-1510-ND
12	DIK 1.5	277-1543-ND	—	—	—	—	277-1540-ND	—	—	277-1514-ND	277-1546-ND 277-1547-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
13	DIKD 1.5	277-1544-ND	—	—	—	—	277-1541-ND	—	—	277-1514-ND	277-1546-ND 277-1547-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
	DIKD 1.5-TG	277-1564-ND	—	—	—	—	277-1541-ND	—	—	—	277-1546-ND 277-1547-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
	DIKD 1.5-2D	277-1565-ND	—	—	—	—	277-1541-ND	—	—	277-1514-ND	277-1546-ND 277-1547-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
14	UDK 4	277-1576-ND	—	—	—	—	—	277-1550-ND	277-1549-ND	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
	UDK 4-TG	277-1554-ND		277-1545-ND				—	—	—							
15	UK 4-TG	277-1556-ND	—	277-1498-ND	—	—	277-1542-ND	—	—	—	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
16	UK 5-HESI	277-1557-ND	—	—	—	—	—	—	—	—	277-1548-ND	F	J, N	277-1474-ND	277-1478-ND	—	—
	UK 5-HESILA 250	277-1558-ND															
	UK 5-HESILED 24	277-1559-ND															
17	UKK 5-HESI (5x20)	277-1569-ND	—	—	—	—	—	—	—	277-1568-ND	—	F	J, N	277-1474-ND	277-1478-ND	—	—
	UKK 5-HESI (6.3x32)	277-1570-ND															
	UKK 5-HESILA 250 (5x20)	277-1571-ND															
	UKK 5-HESILED 24 (6.3x32)	277-1572-ND															
	UKK 5-HESILA 250 (6.3x32)	277-1573-ND															
	UKK 5-HESILED 24 (5x20)	277-1574-ND															
18	UK 6.3-HESI	277-1560-ND	—	—	—	—	—	—	—	—	277-1513-ND	G	K, O	277-1474-ND	277-1479-ND	—	—
	UK 6.3-HESILED 24	277-1561-ND															
	UK 6.3-HESILA 250	277-1562-ND															

(Continued)

DIN Rail Mounted Terminal Blocks and Accessories

Accessories *(Cont.)*

Grounding Block

Grounds connected wires to DIN rail

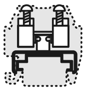

End Cover

Covers open end of terminal block

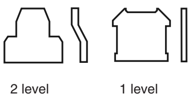

Spacer Cover

Covers open end of 2 level terminal block and compensates for level offset

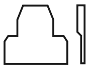

Spacer Plate

Compensates for level offset on closed end of 2 level terminal block

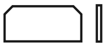

Fixed Bridge

For cross connections between terminal blocks in terminal center bridging cavity, 10 position, divisible

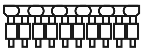

Insertion Bridge

For cross connections between terminal blocks in wire entry cavity, 10 position, divisible

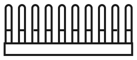

Marker Pen

To label the unprinted marker strip

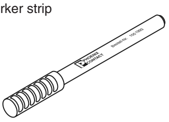

Screwdriver

Fully insulated blade shaft, straight blade design

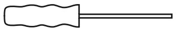

End Bracket

Clamps terminal blocks into place on DIN rail

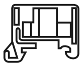

For 15mm wide DIN rail

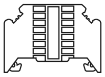

For 35mm wide DIN rail

DIN Rail

With elongated mounting holes

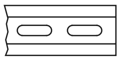

15mm wide
5.5mm deep
1 meter long

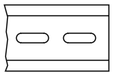

35mm wide
7.5mm deep
1 meter long

Marker Strip

Unprinted or printed, will mark termination points

ZBFM Type

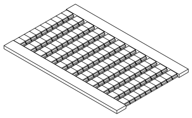

(Unprinted shown)

ZB Type

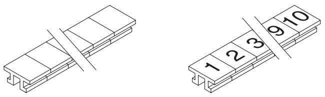

Unprinted

Printed

Fuse Plug

Fuse Plug for cartridge fuse inserts 5x20mm, color: black, with LED/light indicator

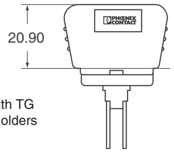

Use With TG Fuse Holders

Description, Width	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Part No.
Grounding Blocks					
MT 1.5-PE, 4.2mm	277-1507-ND	6.76	5.79	4.98	3100318
MBK 3/E-Z-PE, 5.2mm	277-1482-ND	6.07	5.20	4.48	1413117
MBK 5/E-Z-PE, 6.2mm	277-1520-ND	6.55	5.61	4.83	0452043
USLKG 1.5 N, 4.2mm	277-1505-ND	15.07	12.91	11.10	3005853
USLKG 2.5 N, 5.2mm	277-1517-ND	7.65	6.55	5.64	0441119
USLKG 5, 6.2mm	277-1518-ND	7.30	6.25	5.38	0441504
USLKG 6 N, 8.2mm	277-1519-ND	8.22	7.05	6.06	0442079
USLKG 10 N, 10.2mm	277-1500-ND	8.94	7.66	6.58	3003923
UKK 5-PE, 6.2mm	277-1492-ND	12.56	11.56	10.18	2774211
End Covers					
D-MT 1.5	277-1508-ND	.64	.55	.47	3100321
D-MTTB 1.5	277-1495-ND	1.01	.87	.75	3002665
D-MBK/E	277-1484-ND	.78	.67	.58	1415021
D-UK 2.5	277-1493-ND	1.04	.89	.77	3001022
D-UK 4/10	277-1498-ND	1.06	.91	.79	3003020
D-UKK 3/5	277-1487-ND	1.61	1.38	1.19	2770024
D-UDK RELG	277-1545-ND	1.13	.97	.83	2777027
D-UDK 4	277-1577-ND	1.46	1.26	1.08	2775113
Spacer Covers					
DG-MTTB 1.5, 2mm	277-1496-ND	1.21	1.04	.90	3002678
DG-UKK 3/5, 2.5mm	277-1490-ND	1.74	1.49	1.28	2770817
Spacer Plates					
DP-MTTB 1.5, 2mm	277-1497-ND	1.13	.97	.83	3002681
DP-UKK 3/5, 2.5mm	277-1489-ND	1.19	1.02	.88	2770794
Fixed Bridges					
FBRN 10-4 N	277-1494-ND	6.37	5.54	4.71	3001624
FBRI 10-5 N	277-1488-ND	8.82	7.67	6.52	2770642
FBRI 10-8 N	277-1568-ND	9.35	8.13	6.92	2772080
FBI 10-6	277-1514-ND	7.30	6.35	5.40	0203250
FBI 10-8	277-1515-ND	8.79	7.64	6.50	0203263
FBI 10-10	277-1516-ND	11.40	9.91	8.43	0203276
Partition Plates					
2mm for DIK	277-1540-ND	1.58	1.35	1.16	1413272

Description, Width	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Part No.
2mm for DIKD	277-1541-ND	1.74	1.49	1.28	1413285
1.5mm for UK	277-1542-ND	1.23	1.05	.91	3003224
Isolator Bridge Bar					
Use with 1302338	277-1550-ND	5.85	5.09	4.33	0301505
Bridge Bar Isolator					
Use with 0301505	277-1549-ND	.55	.50	.41	1302338
Insertion Bridges					
EBL 10-5	277-1486-ND	2.62	2.28	1.94	2303132
EB 10-6	277-1511-ND	4.20	3.65	3.11	0201139
EB 10-8	277-1512-ND	5.20	4.52	3.85	0202138
EBS 10-8	277-1548-ND	5.01	4.36	3.71	3118135
EB 10-10	277-1513-ND	6.96	6.05	5.15	0203137
EB 56-18	277-1566-ND	53.31	49.05	43.19	3009299
EB 56-18/L1-L2-L3	277-1567-ND	153.20	140.95	124.10	3009367
EB 80-DIK BU	277-1546-ND	41.25	37.95	33.42	2715940
EB 80-DIK RD	277-1547-ND	41.25	37.95	33.42	2715953
Marker Pen					
M-PEN, black	277-1474-ND	11.54	10.62	9.35	1051993
Screwdrivers					
SZS 0.4 x 2.5	277-1477-ND	9.99	9.20	8.10	1205037
SZS 0.6 x 3.5	277-1478-ND	9.99	9.20	8.10	1205053
SZS 1.0 x 4.0	277-1479-ND	15.09	13.89	12.23	1205066
End Brackets					
E/MK 1, 6mm	277-1485-ND	1.09	.98	.81	1421659
E/NS 35 N, 9.5mm	277-1523-ND	1.31	1.13	.97	0800886
DIN Rails					
NS 15 PERF 1 METER	277-1509-ND	8.33	7.67	6.75	5602099
NS 35/7.5 PERF 1 METER	277-1510-ND	8.28	7.62	7.29	5602100
Fuse Plugs					
ST-SILA 250-UK 4	277-1551-ND	10.51	9.00	7.74	0921053
ST-SILED 24-UK 4	277-1552-ND	11.48	10.57	9.30	0921037
ST-SI-UK 4	277-1553-ND	3.86	3.31	2.85	0921011

Style	Description	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Part No.
	Marker Strips					
A	ZBFM 4/WH: UNPRINTED — Unprinted, will Mark 100 Termination Points	277-1524-ND	8.12	7.06	6.01	0803579
B	ZBFM 4/WH: LGS: 1-100 — Preprinted 1-100, will Mark 100 Termination Points	277-1522-ND	12.70	11.04	9.39	0800268
A	ZBFM 8/WH: UNPRINTED	277-1575-ND	9.04	7.86	6.69	0800734
C	ZB 4: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1525-ND	1.50	1.30	1.11	0805001
D	ZB 5: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1472-ND	.84	.73	.63	1050004
E	ZB 6: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1473-ND	.84	.73	.63	1051003
F	ZB 8: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1475-ND	.92	.80	.68	1052002
G	ZB 10: UNPRINTED — Unprinted, will Mark 10 Termination Points	277-1476-ND	1.40	1.22	1.04	1053001
H	ZB 5, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1528-ND	1.30	1.13	.97	1050017:0001
I	ZB 6, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1530-ND	1.30	1.13	.97	1051016:0001
J	ZB 8, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1532-ND	1.99	1.73	1.48	1052015:0001
K	ZB 10, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1534-ND	2.02	1.76	1.50	1053014:0001
L	ZB 5, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1529-ND	1.30	1.13	.97	1050017:0011
M	ZB 6, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1531-ND	1.30	1.13	.97	1051016:0011
N	ZB 8, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1533-ND	1.99	1.73	1.48	1052015:0011
O	ZB 10, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1535-ND	2.02	1.76	1.50	1053014:0011
P	ZB 4, QR: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1526-ND	2.05	1.78	1.52	0805807:0001
Q	ZB 4, QR: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1527-ND	2.05	1.78	1.52	0805807:0011

Terminal Blocks — PCB Plugs and Headers

Fig. 1

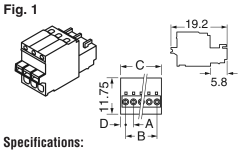

Specifications:
UL: 125V @ 4A, 20-28AWG
IEC: 100V @ 4A, 20-28AWG **Color:** Green

Fig. 2

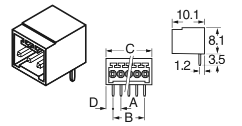

Specifications:
UL: 125V @ 4A **IEC:** 80V @ 4A **Color:** Green

Fig. 3

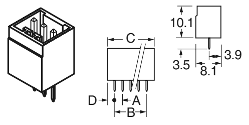

Specifications:
UL: 125V @ 4A **IEC:** 80V @ 4A **Color:** Green

Fig. 4

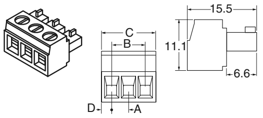

Specifications:
UL: 300V @ 8A, 14-30AWG
IEC: 125V @ 8A, 16-28 AWG **Color:** Green

Fig. 5

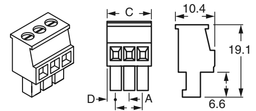

Specifications:
UL: 300V @ 8A, 14-30AWG
IEC: 125V @ 8A, 16-28AWG **Color:** Green

Fig. 6

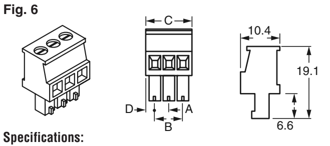

Specifications:
UL: 300V @ 8A, 14-30AWG
IEC: 125V @ 8A, 16-28AWG **Color:** Green

Fig. 7

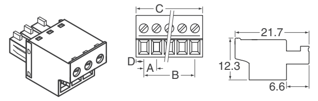

Specifications:
UL: 300V @ 8A, 16-30AWG
IEC: 160V @ 8A, 16-28AWG **Color:** Green

Fig. 8

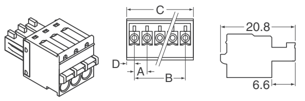

Specifications:
UL: 300V @ 8A, 16-28AWG
IEC: 160V @ 8A, 16-26AWG **Color:** Green

Fig. 9

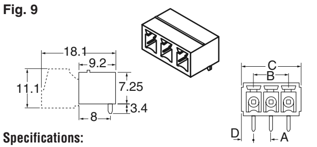

Specifications:
UL: 300V @ 8A
IEC: 125V @ 8A **Color:** Green

No. of Pos.	Dimensions (mm)				Digi-Key Part No.	Price Each			Phoenix Contact Type No.	Phoenix Contact Part No.
	A	B	C	D		1	10	100		
Fig. 1 — 2.5mm Spring Cage Terminal Block Plug										
2	2.5	2.5	5.6	1.55	277-1430-ND	2.28	1.95	1.68	FK-MC 0.5/2-ST-2.5	1881325
3	2.5	5.0	8.1	1.55	277-1431-ND	3.43	2.94	2.53	FK-MC 0.5/3-ST-2.5	1881338
4	2.5	7.5	10.6	1.55	277-1432-ND	4.56	3.91	3.36	FK-MC 0.5/4-ST-2.5	1881341
5	2.5	10.0	13.1	1.55	277-1433-ND	5.70	4.88	4.20	FK-MC 0.5/5-ST-2.5	1881354
6	2.5	12.5	15.6	1.55	277-1434-ND	6.84	5.86	5.04	FK-MC 0.5/6-ST-2.5	1881367
7	2.5	15.0	18.1	1.55	277-1435-ND	7.98	6.83	5.87	FK-MC 0.5/7-ST-2.5	1881370
8	2.5	17.5	20.6	1.55	277-1436-ND	9.11	7.80	6.71	FK-MC 0.5/8-ST-2.5	1881383
9	2.5	20.0	23.1	1.55	277-1437-ND	10.26	8.79	7.56	FK-MC 0.5/9-ST-2.5	1881396
10	2.5	22.5	25.6	1.55	277-1438-ND	11.40	9.76	8.40	FK-MC 0.5/10-ST-2.5	1881406
11	2.5	25.0	28.1	1.55	277-1439-ND	12.54	10.74	9.23	FK-MC 0.5/11-ST-2.5	1881419
12	2.5	27.5	30.6	1.55	277-1440-ND	13.68	11.71	10.07	FK-MC 0.5/12-ST-2.5	1881422
Fig. 2 — 2.5mm Connector Header — Right Angle										
2	2.5	2.5	6.9	2.2	277-1441-ND	.71	.61	.53	MC 0.5/2-G-2.5	1881448
3	2.5	5.0	9.4	2.2	277-1442-ND	1.03	.88	.76	MC 0.5/3-G-2.5	1881451
4	2.5	7.5	11.9	2.2	277-1443-ND	1.36	1.17	1.01	MC 0.5/4-G-2.5	1881464
5	2.5	10.0	14.4	2.2	277-1444-ND	1.66	1.43	1.23	MC 0.5/5-G-2.5	1881477
6	2.5	12.5	16.9	2.2	277-1445-ND	1.98	1.70	1.46	MC 0.5/6-G-2.5	1881480
7	2.5	15.0	19.4	2.2	277-1446-ND	2.28	1.95	1.68	MC 0.5/7-G-2.5	1881493
8	2.5	17.5	21.9	2.2	277-1447-ND	2.60	2.23	1.92	MC 0.5/8-G-2.5	1881503
9	2.5	20.0	24.4	2.2	277-1448-ND	2.91	2.50	2.15	MC 0.5/9-G-2.5	1881516
10	2.5	22.5	26.9	2.2	277-1449-ND	3.23	2.77	2.38	MC 0.5/10-G-2.5	1881529
11	2.5	25.0	29.4	2.2	277-1450-ND	3.54	3.03	2.61	MC 0.5/11-G-2.5	1881532
12	2.5	27.5	31.9	2.2	277-1451-ND	3.86	3.31	2.85	MC 0.5/12-G-2.5	1881545
Fig. 3 — 2.5mm Connector Header — Vertical										
2	2.5	2.5	6.9	2.2	277-1452-ND	.71	.61	.53	MCV 0.5/2-G-2.5	1881558
3	2.5	5.0	9.4	2.2	277-1453-ND	1.03	.88	.76	MCV 0.5/3-G-2.5	1881561
4	2.5	7.5	11.9	2.2	277-1454-ND	1.36	1.17	1.01	MCV 0.5/4-G-2.5	1881574
5	2.5	10.0	14.4	2.2	277-1455-ND	1.66	1.43	1.23	MCV 0.5/5-G-2.5	1881587
6	2.5	12.5	16.9	2.2	277-1456-ND	1.98	1.70	1.46	MCV 0.5/6-G-2.5	1881590
7	2.5	15.0	19.4	2.2	277-1457-ND	2.28	1.95	1.68	MCV 0.5/7-G-2.5	1881600
8	2.5	17.5	21.9	2.2	277-1458-ND	2.60	2.23	1.92	MCV 0.5/8-G-2.5	1881613
9	2.5	20.0	24.4	2.2	277-1459-ND	2.91	2.50	2.15	MCV 0.5/9-G-2.5	1881626
10	2.5	22.5	26.9	2.2	277-1460-ND	3.08	2.64	2.27	MCV 0.5/10-G-2.5	1881639
11	2.5	25.0	29.4	2.2	277-1461-ND	3.54	3.03	2.61	MCV 0.5/11-G-2.5	1881642
12	2.5	27.5	31.9	2.2	277-1462-ND	3.86	3.31	2.85	MCV 0.5/12-G-2.5	1881655
Fig. 4 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1161-ND	1.84	1.58	1.36	MC 1.5/2-ST-3.81	1803578
3	3.81	7.62	12.22	2.3	277-1162-ND	2.75	2.36	2.03	MC 1.5/3-ST-3.81	1803581
4	3.81	11.43	16.03	2.3	277-1163-ND	3.65	3.13	2.69	MC 1.5/4-ST-3.81	1803594
5	3.81	15.24	19.84	2.3	277-1164-ND	4.61	3.95	3.40	MC 1.5/5-ST-3.81	1803604
6	3.81	19.05	23.65	2.3	277-1165-ND	5.49	4.70	4.04	MC 1.5/6-ST-3.81	1803617
7	3.81	22.86	27.46	2.3	277-1166-ND	6.48	5.55	4.77	MC 1.5/7-ST-3.81	1803620
8	3.81	26.67	31.27	2.3	277-1167-ND	7.30	6.25	5.38	MC 1.5/8-ST-3.81	1803633
9	3.81	30.48	35.08	2.3	277-1168-ND	8.31	7.12	6.12	MC 1.5/9-ST-3.81	1803646
10	3.81	34.29	38.89	2.3	277-1169-ND	9.18	7.86	6.76	MC 1.5/10-ST-3.81	1803659
11	3.81	38.10	42.70	2.3	277-1170-ND	10.15	8.69	7.48	MC 1.5/11-ST-3.81	1803662
12	3.81	41.91	46.51	2.3	277-1171-ND	11.06	9.47	8.15	MC 1.5/12-ST-3.81	1803675
13	3.81	45.72	50.32	2.3	277-1172-ND	11.91	10.20	8.77	MC 1.5/13-ST-3.81	1803688
14	3.81	49.53	54.13	2.3	277-1173-ND	12.91	11.06	9.51	MC 1.5/14-ST-3.81	1803691
15	3.81	53.34	57.94	2.3	277-1174-ND	13.84	11.85	10.19	MC 1.5/15-ST-3.81	1803701
16	3.81	57.15	61.75	2.3	277-1175-ND	14.75	12.63	10.86	MC 1.5/16-ST-3.81	1803714
Fig. 5 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1176-ND	2.00	1.72	1.48	MCVW 1.5/2-ST-3.81	1826979
3	3.81	7.62	12.22	2.3	277-1177-ND	2.99	2.56	2.20	MCVW 1.5/3-ST-3.81	1826982
4	3.81	11.43	16.03	2.3	277-1178-ND	3.95	3.39	2.91	MCVW 1.5/4-ST-3.81	1826995
5	3.81	15.24	19.84	2.3	277-1179-ND	4.98	4.26	3.67	MCVW 1.5/5-ST-3.81	1827004
6	3.81	19.05	23.65	2.3	277-1180-ND	5.95	5.10	4.38	MCVW 1.5/6-ST-3.81	1827017
7	3.81	22.86	27.46	2.3	277-1181-ND	6.95	5.95	5.12	MCVW 1.5/7-ST-3.81	1827020
8	3.81	26.67	31.27	2.3	277-1182-ND	7.95	6.81	5.86	MCVW 1.5/8-ST-3.81	1827033
9	3.81	30.48	35.08	2.3	277-1183-ND	8.96	7.68	6.60	MCVW 1.5/9-ST-3.81	1827046
10	3.81	34.29	38.89	2.3	277-1184-ND	9.93	8.50	7.31	MCVW 1.5/10-ST-3.81	1827059
11	3.81	38.10	42.70	2.3	277-1185-ND	10.94	9.37	8.05	MCVW 1.5/11-ST-3.81	1827062
12	3.81	41.91	46.51	2.3	277-1186-ND	11.95	10.23	8.80	MCVW 1.5/12-ST-3.81	1827075
13	3.81	45.72	50.32	2.3	277-1187-ND	12.91	11.06	9.51	MCVW 1.5/13-ST-3.81	1827088
14	3.81	49.53	54.13	2.3	277-1188-ND	13.93	11.92	10.25	MCVW 1.5/14-ST-3.81	1827091
15	3.81	53.34	57.94	2.3	277-1189-ND	14.93	12.78	10.99	MCVW 1.5/15-ST-3.81	1827101
16	3.81	57.15	61.75	2.3	277-1190-ND	15.91	13.63	11.72	MCVW 1.5/16-ST-3.81	1827114
Fig. 6 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1191-ND	2.00	1.72	1.48	MCVR 1.5/2-ST-3.81	1827127
3	3.81	7.62	12.22	2.3	277-1192-ND	2.99	2.56	2.20	MCVR 1.5/3-ST-3.81	1827130
4	3.81	11.43	16.03	2.3	277-1193-ND	3.95	3.39	2.91	MCVR 1.5/4-ST-3.81	1827143
5	3.81	15.24	19.84	2.3	277-1194-ND	4.98	4.26	3.67	MCVR 1.5/5-ST-3.81	1827156
6	3.81	19.05	23.65	2.3	277-1195-ND	5.95	5.10	4.38	MCVR 1.5/6-ST-3.81	1827169
7	3.81	22.86	27.46	2.3	277-1196-ND	6.95	5.95	5.12	MCVR 1.5/7-ST-3.81	1827172
8	3.81	26.67	31.27	2.3	277-1197-ND	7.95	6.81	5.86	MCVR 1.5/8-ST-3.81	1827185
9	3.81	30.48	35.08	2.3	277-1198-ND	8.96	7.68	6.60	MCVR 1.5/9-ST-3.81	1827198
10	3.81	34.29	38.89	2.3	277-1199-ND	9.93	8.50	7.31	MCVR 1.5/10-ST-3.81	1827208
11	3.81	38.10	42.70	2.3	277-1200-ND	10.94	9.37	8.05	MCVR 1.5/11-ST-3.81	1827211
12	3.81	41.91	46.51	2.3	277-1201-ND	11.95	10.23	8.80	MCVR 1.5/12-ST-3.81	1827224
13	3.81	45.72	50.32	2.3	277-1202-ND	12.91	11.06	9.51	MCVR 1.5/13-ST-3.81	1827237
14	3.81	49.53	54.13	2.3	277-1203-ND	13.93	11.92	10.25	MCVR 1.5/14-ST-3.81	1827240
15	3.81	53.34	57.94	2.3	277-1204-ND	14.93	12.78	10.99	MCVR 1.5/15-ST-3.81	1827253
16	3.81	57.15	61.75	2.3	277-1205-ND	15.91	13.63	11.72	MCVR 1.5/16-ST-3.81	1827266
Fig. 7 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1902-ND	3.86	3.31	2.85	FRONT-MC 1.5/2-ST-3.81	1850660
3	3.81	7.62	12.22	2.3	277-1903-ND	5.78	4.95	4.26	FRONT-MC 1.5/3-ST-3.81	1850673
4	3.81	11.43	16.03	2.3	277-1904-ND	7.71	6.61	5.68	FRONT-MC 1.5/4-ST-3.81	1850686
5	3.81	15.24	19.84	2.3	277-1905-ND	9.65	8.26	7.11	FRONT-MC 1.5/5-ST-3.81	1850699
6	3.81	19.05	23.65	2.3	277-1906-ND	12.01	10.29	8.85	FRONT-MC 1.5/6-ST-3.81	1850709
7	3.81	22.86	27.46	2.3	277-1907-ND	13.50	11.56	9.94	FRONT-MC 1.5/7-ST-3.81	1850712
8	3.81	26.67	31.27	2.3	277-1908-ND	15.40	13.19	11.34	FRONT-MC 1.5/8-ST-3.81	1850725
9	3.81	30.48	35.08	2.3	277-1909-ND	17.31	14.82	12.75	FRONT-MC 1.5/9-ST-3.81	1850738
10	3.81	34.29	38.89	2.3	277-1910-ND	19.25	16.48	14.17	FRONT-MC 1.5/10-ST-3.81	1850741
11	3.81	38.10	42.70	2.3	277-1911-ND	21.18	18.13	15.59	FRONT-MC 1.5/11-ST-3.81	1850754
12	3.81	41.91	46.51	2.3	277-1912-ND	23.11	19.79	17.02	FRONT-MC 1.5/12-ST-3.81	1850767
Fig. 8 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1322-ND	3.08	2.64	2.27	FK-MCP 1.5/2-ST-3.81	1851041
3	3.81	7.62	12.22	2.3	277-1323-ND	4.60	3.94	3.39	FK-MCP 1.5/3-ST-3.81	1851054
4	3.81	11.43	16.03	2.3	277-1324-ND	6.19	5.30	4.56	FK-MCP 1.5/4-ST-3.81	1851067
5	3.81	15.24	19.84	2.3	277-1325-ND	7.70	6.60	5.67	FK-MCP 1.5/5-ST-3.81	1851070
6	3.81	19.05	23.65	2.3	277-1326-ND	9.24	7.91	6.80	FK-MCP 1.5/6-ST-3.81	1851083
7	3.81	22.86	27.46	2.3	277-1327-ND	10.81	9.26	7.96	FK-MCP 1.5/7-ST-3.81	1851096
8	3.81	26.67	31.27	2.3	277-1328-ND	12.36	10.59	9.10	FK-MCP 1.5/8-ST-3.81	1851106
9	3.81	30.48	35.08	2.3	277-1329-ND	13.85	11.86	10.20	FK-MCP 1.5/9-ST-3.81	1851119
10	3.81	34.29	38.89	2.3	277-1330-ND	15.43	13.21	11.36	FK-MCP 1.5/10-ST-3.81	1851122
11	3.81	38.10	42.70	2.3	277-1331-ND	16.96	14.52	12.49	FK-MCP 1.5/11-ST-3.81	1851135
12	3.81	41.91	46.51	2.3	277-1332-ND	18.51	15.85	13.63	FK-MCP 1.5/12-ST-3.81	1851148
Fig. 9 — 3.81mm Connector Header — Right Angle										
2	3.81	3.81	9.01	2.6	277-1206-ND	.64	.55	.47	MC 1.5/2-G-3.81	1803277
3	3.81	7.62	12.82	2.6	277-1207-ND	.98	.84	.72	MC 1.5/3-G-3.81	1803280
4	3.81	11.43	16.63	2.6	277-1208-ND	1.31	1.13	.97	MC 1.5/4-G-3.81	1803293
5	3.81	15.24	20.44	2.6	277-1209-ND	1.60	1.37	1.18	MC 1.5/5-G-3.81	1803303
6	3.81	19.05	24.25	2.6	277-1210-ND	1.95	1.67	1.44	MC 1.5/6-G-3.81	1803316
7	3.81	22.86	28.06	2.6	277-1211-ND	2.28	1.95	1.68	MC 1.5/7-G-3.81	1803329
8	3.81	26.67	31.87	2.6	277-1212-ND	2.59	2.22	1.91	MC 1.5/8-G-3.81	1803332
9	3.81	30.48	35.68	2.6	277-1213-ND	2.95	2.53	2.18	MC 1.5/9-G-3.81	1803345
10	3.81	34.29	39.49	2.6	277-1214-ND	3.24	2.78	2.39	MC 1.5/10-G-3.81	1803358
11	3.81	38.10	43.30	2.6	277-1215-ND	3.58	3.06	2.64	MC 1.5/11-G-3.81	1803361
12	3.81	41.91	47.11	2.6	277-1216-ND	3.90	3.34	2.88	MC 1.5/12-G-3.81	1803374
13	3.81	45.72	50.92	2.6	277-1217-ND	4.23	3.62	3.11	MC 1.5/13-G-3.81	1803387
14	3.81	49.53	54.73	2.6	277-1218-ND	4.54	3.89	3.34	MC 1.5/14-G-3.81	1803390
15	3.81	53.34	58.54	2.6	277-1219-ND	4.86	4.17	3.58	MC 1.5/15-G-3.81	1803400
16	3.81	57.15	62.35	2.6	277-1220-ND	5.16	4.42	3.80	MC 1.5/16-G-3.81	1803413
Fig. 10 — 3.81mm Connector Header — Vertical										
2	3.81	3.81	9.01	2.6	277-1221-ND	.64	.55	.47	MCV 1.5/2-G-3.81	1803426
3	3.81	7.62	12.82	2.6	277-1222-ND	.98	.84	.72	MCV 1.5/3-G-3.81	1803439
4	3.81	11.43	16.63	2.6	277-1223-ND	1.31	1.13	.97	MCV 1.5/4-G-3.81	1803442
5	3.81	15.24	20.44	2.6	277-1224-ND	1.60	1.37	1.18	MCV 1.5/5-G-3.81	1803455
6	3.81	19.05	24.25	2.6	277-1225-ND	1.94	1.66	1.43	MCV 1.5/6-G-3.81	1803468
7	3.81	22.86	28.06	2.6	277-1226-ND	2.28	1.95	1.68	MCV 1.5/7-G-3.81	1803471
8	3.81	26.67	31.87	2.6	277-1227-ND	2.56	2.20	1.89	MCV 1.5/8-G-3.81	1803484
9	3.81	30.48	35.68	2.6	277-1228-ND	2.95	2.53	2.18	MCV 1.5/9-G-3.81	1803497
10	3.81	34.29	39.49	2.6	277-1229-ND	3.24	2.78	2.39	MCV 1.5/10-G-3.81	1803507
11	3.81	38.10	43.30	2.6	277-1230-ND	3.58	3.06	2.64	MCV 1.5/11-G-3.81	1803510
12	3.81	41.91	47.11	2.6	277-1231-ND	3.93	3.36	2.89	MCV 1.5/12-G-3.81	1803523
13	3.81	45.72	50.92	2.6	277-1232-ND	4.23	3.62	3.11	MCV 1.5/13-G-3.81	1803536
14	3.81	49.53	54.73	2.6	277-1233-ND	4.54	3.89	3.34	MCV 1.5/14-G-3.81	1803549
15	3.81	53.34	58.54	2.6	277-1234-ND	4.86	4.17	3.58	MCV 1.5/15-G-3.81	1803552
16	3.81	57.15	62.35	2.6	277-1235-ND	5.16	4.42	3.80	MCV 1.5/16-G-3.81	1803565
Fig. 11 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1000-ND	1.58	1.35	1.16	MSTB 2.5/2-ST	1754449
3	5.0	10	15	2.5	277-1001-ND	2.36	2.03	1.74	MSTB 2.5/3-ST	1754465
4	5.0	15	20	2.5	277-1002-ND	3.15	2.70	2.32	MSTB 2.5/4-ST	1754481
5	5.0	20	25	2.5	277-1003-ND	3.94	3.38	2.90	MSTB 2.5/5-ST	1754504
6	5.0	25	30	2.5	277-1004-ND	4.73	4.05	3.48	MSTB 2.5/6-ST	1754520
7	5.0	30	35	2.5	277-1005-ND	5.53	4.73	4.07	MSTB 2.5/7-ST	1754546
8	5.0	35	40	2.5	277-1006-ND	6.31	5.41	4.65	MSTB 2.5/8-ST	1754562
9	5.0	40	45	2.5	277-1007-ND	7.10	6.08	5.23	MSTB 2.5/9-ST	1754588

(Continued)

Terminal Blocks — PCB Plugs and Headers *(Cont.)*

Fig. 10

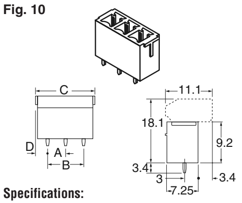

Specifications:
UL: 300V @ 8A
IEC: 125V @ 8A **Color:** Green

Fig. 11

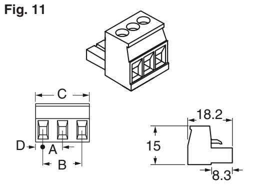

Specifications:
UL: 300V @ 10A, 12-30AWG
IEC: 250V @ 12A, 12-24AWG **Color:** Green

Fig. 12

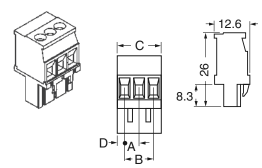

Specifications:
UL: 300V @ 10A, 12-30AWG
IEC: 250V @ 12A, 12-24AWG **Color:** Green

Fig. 13

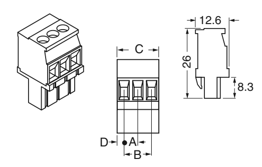

Specifications:
UL: 300V @ 10A, 12-30AWG
IEC: 250V @ 12A, 12-24AWG **Color:** Green

Fig. 14

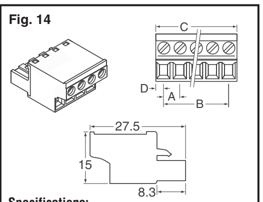

Specifications:
UL: 300V @ 12A, 12-30AWG
IEC: 320V @ 12A, 12-24AWG **Color:** Green

Fig. 15

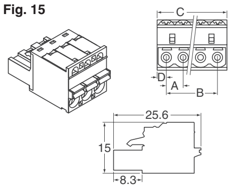

Specifications:
UL: 300V @ 10A, 12-26AWG
IEC: 320V @ 12A, 12-24AWG **Color:** Green

Fig. 16

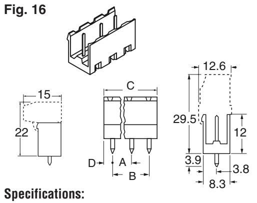

Specifications:
UL: 300V @ 10A
IEC: 250V @ 12A **Color:** Green

Fig. 17

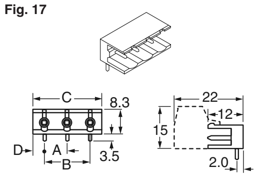

Specifications:
UL: 300V @ 10A
IEC: 250V @ 12A **Color:** Green

Fig. 18

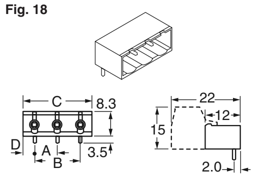

Specifications:
UL: 300V @ 10A
IEC: 250V @ 12A **Color:** Green

Fig. 19

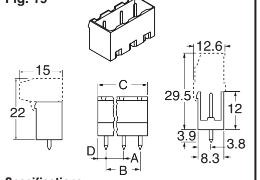

Specifications:
UL: 300V @ 10A
IEC: 250V @ 12A **Color:** Green

No. of Pos.	Dimensions (mm)				Digi-Key Part No.	Price Each			Phoenix Contact Type No.	Phoenix Contact Part No.
	A	B	C	D		1	10	100		
10	5.0	45	50	2.5	277-1008-ND	7.89	6.76	5.81	MSTB 2.5/10-ST	1754601
11	5.0	50	55	2.5	277-1009-ND	8.68	7.43	6.39	MSTB 2.5/11-ST	1754627
12	5.0	55	60	2.5	277-1010-ND	9.46	8.10	6.97	MSTB 2.5/12-ST	1754643
Fig. 11 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1011-ND	1.58	1.35	1.16	MSTB 2.5/2-ST-5.08	1757019
3	5.08	10.16	15.24	2.54	277-1012-ND	2.36	2.03	1.74	MSTB 2.5/3-ST-5.08	1757022
4	5.08	15.24	20.32	2.54	277-1013-ND	3.15	2.70	2.32	MSTB 2.5/4-ST-5.08	1757035
5	5.08	20.32	25.40	2.54	277-1014-ND	3.94	3.38	2.90	MSTB 2.5/5-ST-5.08	1757048
6	5.08	25.40	30.48	2.54	277-1015-ND	4.73	4.05	3.48	MSTB 2.5/6-ST-5.08	1757051
7	5.08	30.48	35.56	2.54	277-1016-ND	5.53	4.73	4.07	MSTB 2.5/7-ST-5.08	1757064
8	5.08	35.56	40.64	2.54	277-1017-ND	6.31	5.41	4.65	MSTB 2.5/8-ST-5.08	1757077
9	5.08	40.64	45.72	2.54	277-1018-ND	7.10	6.08	5.23	MSTB 2.5/9-ST-5.08	1757080
10	5.08	45.72	50.80	2.54	277-1019-ND	7.89	6.76	5.81	MSTB 2.5/10-ST-5.08	1757093
11	5.08	50.80	55.88	2.54	277-1020-ND	8.68	7.43	6.39	MSTB 2.5/11-ST-5.08	1757103
12	5.08	55.88	60.96	2.54	277-1021-ND	9.46	8.10	6.97	MSTB 2.5/12-ST-5.08	1757116
Fig. 12 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1029-ND	1.83	1.57	1.35	MVSTBR 2.5/2-ST	1792016
3	5.0	10	15	2.5	277-1030-ND	2.74	2.35	2.02	MVSTBR 2.5/3-ST	1792029
4	5.0	15	20	2.5	277-1031-ND	3.66	3.14	2.70	MVSTBR 2.5/4-ST	1792032
5	5.0	20	25	2.5	277-1032-ND	4.58	3.92	3.37	MVSTBR 2.5/5-ST	1792045
6	5.0	25	30	2.5	277-1033-ND	5.48	4.69	4.03	MVSTBR 2.5/6-ST	1792058
7	5.0	30	35	2.5	277-1034-ND	6.40	5.48	4.72	MVSTBR 2.5/7-ST	1792061
8	5.0	35	40	2.5	277-1035-ND	7.31	6.26	5.39	MVSTBR 2.5/8-ST	1792074
9	5.0	40	45	2.5	277-1036-ND	8.24	7.06	6.07	MVSTBR 2.5/9-ST	1792087
10	5.0	45	50	2.5	277-1037-ND	9.14	7.83	6.73	MVSTBR 2.5/10-ST	1792090
11	5.0	50	55	2.5	277-1038-ND	10.05	8.61	7.40	MVSTBR 2.5/11-ST	1792100
12	5.0	55	60	2.5	277-1039-ND	10.98	9.40	8.08	MVSTBR 2.5/12-ST	1792113
Fig. 12 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1040-ND	1.83	1.57	1.35	MVSTBR 2.5/2-ST-5.08	1792249
3	5.08	10.16	15.24	2.54	277-1041-ND	2.74	2.35	2.02	MVSTBR 2.5/3-ST-5.08	1792252
4	5.08	15.24	20.32	2.54	277-1042-ND	3.66	3.14	2.70	MVSTBR 2.5/4-ST-5.08	1792265
5	5.08	20.32	25.40	2.54	277-1043-ND	4.58	3.92	3.37	MVSTBR 2.5/5-ST-5.08	1792278
6	5.08	25.40	30.48	2.54	277-1044-ND	5.48	4.69	4.03	MVSTBR 2.5/6-ST-5.08	1792281
7	5.08	30.48	35.56	2.54	277-1045-ND	6.40	5.48	4.72	MVSTBR 2.5/7-ST-5.08	1792294
8	5.08	35.56	40.64	2.54	277-1046-ND	7.31	6.26	5.39	MVSTBR 2.5/8-ST-5.08	1792304
9	5.08	40.64	45.72	2.54	277-1047-ND	8.24	7.06	6.07	MVSTBR 2.5/9-ST-5.08	1792317
10	5.08	45.72	50.80	2.54	277-1048-ND	9.14	7.83	6.73	MVSTBR 2.5/10-ST-5.08	1792320
11	5.08	50.80	55.88	2.54	277-1049-ND	10.05	8.61	7.40	MVSTBR 2.5/11-ST-5.08	1792333
12	5.08	55.88	60.96	2.54	277-1050-ND	10.98	9.40	8.08	MVSTBR 2.5/12-ST-5.08	1792346
Fig. 13 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1051-ND	1.83	1.57	1.35	MVSTBW 2.5/2-ST	1792524
3	5.0	10	15	2.5	277-1052-ND	2.74	2.35	2.02	MVSTBW 2.5/3-ST	1792537
4	5.0	15	20	2.5	277-1053-ND	3.66	3.14	2.70	MVSTBW 2.5/4-ST	1792540
5	5.0	20	25	2.5	277-1054-ND	4.58	3.92	3.37	MVSTBW 2.5/5-ST	1792553
6	5.0	25	30	2.5	277-1055-ND	5.48	4.69	4.03	MVSTBW 2.5/6-ST	1792566
7	5.0	30	35	2.5	277-1056-ND	6.40	5.48	4.72	MVSTBW 2.5/7-ST	1792579
8	5.0	35	40	2.5	277-1057-ND	7.31	6.26	5.39	MVSTBW 2.5/8-ST	1792582
9	5.0	40	45	2.5	277-1058-ND	8.24	7.06	6.07	MVSTBW 2.5/9-ST	1792595
10	5.0	45	50	2.5	277-1059-ND	9.14	7.83	6.73	MVSTBW 2.5/10-ST	1792605
11	5.0	50	55	2.5	277-1060-ND	10.05	8.61	7.40	MVSTBW 2.5/11-ST	1792618
12	5.0	55	60	2.5	277-1061-ND	10.98	9.40	8.08	MVSTBW 2.5/12-ST	1792621
Fig. 13 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1062-ND	1.83	1.57	1.35	MVSTBW 2.5/2-ST-5.08	1792757
3	5.08	10.16	15.24	2.54	277-1063-ND	2.74	2.35	2.02	MVSTBW 2.5/3-ST-5.08	1792760
4	5.08	15.24	20.32	2.54	277-1064-ND	3.66	3.14	2.70	MVSTBW 2.5/4-ST-5.08	1792773
5	5.08	20.32	25.40	2.54	277-1065-ND	4.58	3.92	3.37	MVSTBW 2.5/5-ST-5.08	1792786
6	5.08	25.40	30.48	2.54	277-1066-ND	5.48	4.69	4.03	MVSTBW 2.5/6-ST-5.08	1792799
7	5.08	30.48	35.56	2.54	277-1067-ND	6.40	5.48	4.72	MVSTBW 2.5/7-ST-5.08	1792809
8	5.08	35.56	40.64	2.54	277-1068-ND	7.31	6.26	5.39	MVSTBW 2.5/8-ST-5.08	1792812
9	5.08	40.64	45.72	2.54	277-1069-ND	8.24	7.06	6.07	MVSTBW 2.5/9-ST-5.08	1792825
10	5.08	45.72	50.80	2.54	277-1070-ND	9.14	7.83	6.73	MVSTBW 2.5/10-ST-5.08	1792838
11	5.08	50.80	55.88	2.54	277-1071-ND	10.05	8.61	7.40	MVSTBW 2.5/11-ST-5.08	1792841
12	5.08	55.88	60.96	2.54	277-1072-ND	10.98	9.40	8.08	MVSTBW 2.5/12-ST-5.08	1792854
Fig. 14 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1881-ND	4.78	4.09	3.52	FRONT-MSTB 2.5/2-ST	1779411
3	5.0	10	15	2.5	277-1930-ND	7.14	6.11	5.26	FRONT-MSTB 2.5/3-ST	1779424
4	5.0	15	20	2.5	277-1882-ND	9.54	8.17	7.02	FRONT-MSTB 2.5/4-ST	1779437
5	5.0	20	25	2.5	277-1883-ND	11.91	10.20	8.77	FRONT-MSTB 2.5/5-ST	1779440
6	5.0	25	30	2.5	277-1931-ND	14.33	12.27	10.55	FRONT-MSTB 2.5/6-ST	1779453
7	5.0	30	35	2.5	277-1884-ND	16.71	14.31	12.31	FRONT-MSTB 2.5/7-ST	1779466
8	5.0	35	40	2.5	277-1885-ND	19.09	16.34	14.05	FRONT-MSTB 2.5/8-ST	1779479
9	5.0	40	45	2.5	277-1886-ND	21.46	18.38	15.80	FRONT-MSTB 2.5/9-ST	1779482
10	5.0	45	50	2.5	277-1932-ND	23.83	20.40	17.54	FRONT-MSTB 2.5/10-ST	1779495
11	5.0	50	55	2.5	277-1887-ND	26.24	22.46	19.32	FRONT-MSTB 2.5/11-ST	1779505
12	5.0	55	60	2.5	277-1933-ND	28.59	24.48	21.05	FRONT-MSTB 2.5/12-ST	1779518
Fig. 14 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1934-ND	4.78	4.09	3.52	FRONT-MSTB 2.5/2-ST-5.08	1777280
3	5.08	10.16	15.24	2.54	277-1935-ND	7.14	6.11	5.26	FRONT-MSTB 2.5/3-ST-5.08	1777293
4	5.08	15.24	20.32	2.54	277-1936-ND	9.54	8.17	7.02	FRONT-MSTB 2.5/4-ST-5.08	1777303
5	5.08	20.32	25.40	2.54	277-1937-ND	11.91	10.20	8.77	FRONT-MSTB 2.5/5-ST-5.08	1777316
6	5.08	25.40	30.48	2.54	277-1938-ND	14.33	12.27	10.55	FRONT-MSTB 2.5/6-ST-5.08	1777329
7	5.08	30.48	35.56	2.54	277-1888-ND	16.71	14.31	12.31	FRONT-MSTB 2.5/7-ST-5.08	1777332
8	5.08	35.56	40.64	2.54	277-1939-ND	19.09	16.34	14.05	FRONT-MSTB 2.5/8-ST-5.08	1777345
9	5.08	40.64	45.72	2.54	277-1889-ND	21.46	18.38	15.80	FRONT-MSTB 2.5/9-ST-5.08	1777358
10	5.08	45.72	50.80	2.54	277-1940-ND	23.83	20.40	17.54	FRONT-MSTB 2.5/10-ST-5.08	1777361
11	5.08	50.80	55.88	2.54	277-1890-ND	26.24	22.46	19.32	FRONT-MSTB 2.5/11-ST-5.08	1777374
12	5.08	55.88	60.96	2.54	277-1941-ND	28.59	24.48	21.05	FRONT-MSTB 2.5/12-ST-5.08	1777387
Fig. 15 — 5mm Connector Terminal Block Plug										
2	5.0	5	10.1	2.55	277-1891-ND	1.63	1.40	1.20	FKC 2.5/2-ST	1910351
3	5.0	10	15.1	2.55	277-1892-ND	2.45	2.10	1.81	FKC 2.5/3-ST	1910364
4	5.0	15	20.1	2.55	277-1893-ND	3.28	2.81	2.42	FKC 2.5/4-ST	1910377
5	5.0	20	25.1	2.55	277-1894-ND	4.09	3.50	3.01	FKC 2.5/5-ST	1910380
6	5.0	25	30.1	2.55	277-1895-ND	4.71	4.04	3.47	FKC 2.5/6-ST	1910393
7	5.0	30	35.1	2.55	277-1896-ND	5.25	4.50	3.87	FKC 2.5/7-ST	1910403
8	5.0	35	40.1	2.55	277-1897-ND	6.54	5.60	4.82	FKC 2.5/8-ST	1910416
9	5.0	40	45.1	2.55	277-1898-ND	6.75	5.78	4.97	FKC 2.5/9-ST	1910429
10	5.0	45	50.1	2.55	277-1942-ND	8.16	6.99	6.01	FKC 2.5/10-ST	1910432
11	5.0	50	55.1	2.55	277-1899-ND	8.99	7.70	6.62	FKC 2.5/11-ST	1910445
12	5.0	55	60.1	2.55	277-1900-ND	9.79	8.38	7.21	FKC 2.5/12-ST	1910458
Fig. 15 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.78	2.85	277-1341-ND	1.85	1.59	1.37	FKC 2.5/2-ST-5.08	1873058
3	5.08	10.16	15.86	2.85	277-1342-ND	2.76	2.37	2.04	FKC 2.5/3-ST-5.08	1873061
4	5.08	15.24	20.94	2.85	277-1343-ND	3.70	3.17	2.73	FKC 2.5/4-ST-5.08	1873074
5	5.08	20.32	26.02	2.85	277-1344-ND	4.61	3.95	3.40	FKC 2.5/5-ST-5.08	1873087
6	5.08	25.40	31.10	2.85	277-1345-ND	5.54	4.74	4.08	FKC 2.5/6-ST-5.08	1873090
7	5.08	30.48	36.18	2.85	277-1346-ND	6.46	5.54	4.76	FKC 2.5/7-ST-5.08	1873100
8	5.08	25.56	31.26	2.85	277-1347-ND	7.38	6.32	5.43	FKC 2.5/8-ST-5.08	1873113
9	5.08	40.64	46.34	2.85	277-1348-ND	8.31	7.12	6.12	FKC 2.5/9-ST-5.08	1873126
10	5.08	45.72	51.42	2.85	277-1349-ND	9.23	7.90	6.79	FKC 2.5/10-ST-5.08	1873139
11	5.08	50.80	56.50	2.85	277-1350-ND	10.15	8.69	7.48	FKC 2.5/11-ST-5.08	1873142
12	5.08	55.88	61.58	2.85	277-1351-ND	11.08	9.48	8.16	FKC 2.5/12-ST-5.08	1873155
Fig. 16 — 5mm Connector Header — Vertical										
2	5.0	5	10	2.5	277-1073-ND	.54	.46	.40	MSTBV 2.5/2-G	1753437
3	5.0	10	15	2.5	277-1074-ND	.81	.70	.60	MSTBV 2.5/3-G	1753453
4	5.0	15	20	2.5	277-1075-ND	1.10	.95	.81	MSTBV 2.5/4-G	1753479
5	5.0	20	25	2.5	277-1076-ND	1.38	1.18	1.02	MSTBV 2.5/5-G	1753495
6	5.0	25	30	2.5	277-1077-ND	1.63	1.40	1.20	MSTBV 2.5/6-G	1753518
7	5.0	30	35	2.5	277-1078-ND	1.90	1.63	1.40	MSTBV 2.5/7-G	1753534
8	5.0	35	40	2.5	277-1079-ND	2.16	1.86	1.60	MSTBV 2.5/8-G	1753550
9	5.0	40	45	2.5	277-1080-ND	2.45	2.10	1.81	MSTBV 2.5/9-G	1753576
10	5.0	45	50	2.5	277-1081-ND	2.70	2.32	1.99	MSTBV 2.5/10-G	1753592
11	5.0	50	55	2.5	277-1082-ND	3.00	2.57	2.21	MSTBV 2.5/11-G	1753615
12	5.0	55	60	2.5	277-1083-ND	3.28	2.81	2.42	MSTBV 2.5/12-G	1753631
Fig. 16 — 5.08mm Connector Header — Vertical										
2	5.08	5.08	10.16	2.54	277-1128-ND	.51	.44	.38	MSTBV 2.5/2-G-5.08	1758018
3	5.08	10.16	15.24	2.54	277-1129-ND	.79	.68	.58	MSTBV 2.5/3-G-5.08	1758021
4	5.08	15.24	20.32	2.54	277-1130-ND	1.05	.90	.78	MSTBV 2.5/4-G-5.08	1758034
5	5.08	20.32	25.40	2.54	277-1131-ND	1.33	1.14	.98	MSTBV 2.5/5-G-5.08	1758047
6	5.08	25.40	30.48	2.54	277-1132-ND	1.55	1.33	1.15	MSTBV 2.5/6-G-5.08	1758050
7	5.08	30.48	35.56	2.54	277-1133-ND	1.83	1.57	1.35	MSTBV 2.5/7-G-5.08	1758063
8	5.08	35.56	40.64	2.54	277-1134-ND	2.09	1.79	1.54	MSTBV 2.5/8-G-5.08	1758076
9	5.08	40.64	45.72	2.54	277-1135-ND	2.35	2.02	1.73	MSTBV 2.5/9-G-5.08	1758089
10	5.08	45.72	50.80	2.54	277-1136-ND	2.60	2.23	1.92	MSTBV 2.5/10-G-5.08	1758092
11	5.08	50.80	55.88	2.54	277-1137-ND	2.89	2.48	2.13	MSTBV 2.5/11-G-5.08	1758102
12	5.08	55.88	60.96	2.54	277-1138-ND	3.15	2.70	2.32	MSTBV 2.5/12-G-5.08	1758115
Fig. 17 — 5mm Connector Header — Right Angle										
2	5.0	5	10	2.5	277-1084-ND	.54	.46	.40	MSTB 2.5/2-G	1754436
3	5.0	10	15	2.5	277-1085-ND	.81	.70	.60	MSTB 2.5/3-G	1754452
4	5.0	15	20	2.5	277-1086-ND	1.10	.95	.81	MSTB 2.5/4-G	1754478

(Continued)

Terminal Blocks — PCB Plugs and Headers *(Cont.)*

Fig. 20

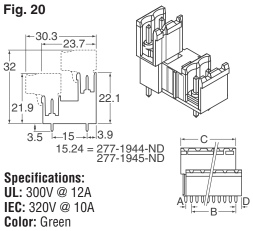

Specifications:
UL: 300V @ 12A
IEC: 320V @ 10A
Color: Green

Fig. 21

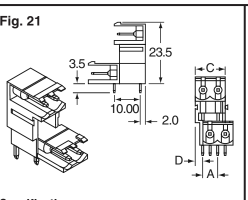

Specifications:
UL: 300V @ 10A **IEC:** 250V @ 10A
Color: Green

Fig. 22

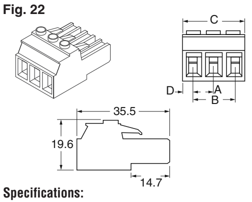

Specifications:
UL: 600V @ 30A, 10-30AWG
IEC: 800V @ 20A, 10-24AWG **Color:** Green

Fig. 23

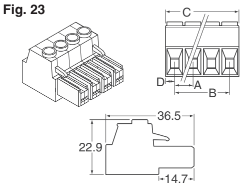

Specifications:
UL: 600V @ 30A, 10-24AWG
IEC: 1000V @ 41A, 10-24AWG **Color:** Green

Fig. 24

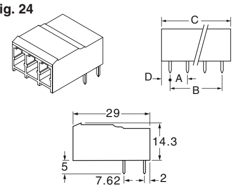

Specifications:
UL: 600V @ 30A **IEC:** 400V @ 20A
Color: Green

Fig. 25

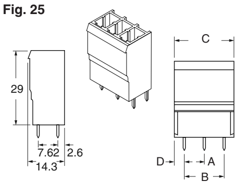

Specifications:
UL: 600V @ 30A **IEC:** 400V @ 20A
Color: Green

Fig. 26

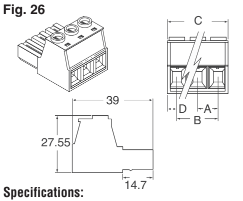

Specifications:
UL: 600V @ 50A, 8-20AWG
IEC: 1000V @ 41A, 8-30AWG **Color:** Green

Fig. 27

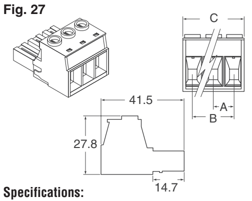

Specifications:
UL: 600V @ 55A, 8-20AWG
IEC: 1000V @ 76A, 6-20AWG **Color:** Green

Fig. 28

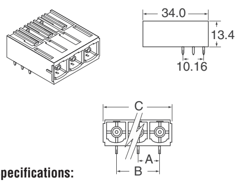

Specifications:
UL: 300V @ 55A
IEC: 630V @ 76A **Color:** Green

Fig. 29

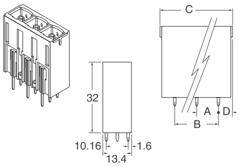

Specifications:
UL: 300V @ 55A
IEC: 630V @ 76A **Color:** Green

No. of Pos.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
5	5.0	20	25	2.5	277-1087-ND	1.38	1.18	1.02	MSTB 2.5/5-G	1754494
6	5.0	25	30	2.5	277-1088-ND	1.63	1.40	1.20	MSTB 2.5/6-G	1754517
7	5.0	30	35	2.5	277-1089-ND	1.90	1.63	1.40	MSTB 2.5/7-G	1754533
8	5.0	35	40	2.5	277-1090-ND	2.16	1.86	1.60	MSTB 2.5/8-G	1754559
9	5.0	40	45	2.5	277-1091-ND	2.45	2.10	1.81	MSTB 2.5/9-G	1754575
10	5.0	45	50	2.5	277-1092-ND	2.70	2.32	1.99	MSTB 2.5/10-G	1754591
11	5.0	50	55	2.5	277-1093-ND	3.00	2.57	2.21	MSTB 2.5/11-G	1754614
12	5.0	55	60	2.5	277-1094-ND	3.28	2.81	2.42	MSTB 2.5/12-G	1754630
Fig. 17 — 5.08mm Connector Header — Right Angle										
2	5.08	5.08	10.16	2.54	277-1095-ND	.51	.44	.38	MSTB 2.5/2-G-5.08	1759017
3	5.08	10.16	15.24	2.54	277-1096-ND	.79	.68	.58	MSTB 2.5/3-G-5.08	1759020
4	5.08	15.24	20.32	2.54	277-1097-ND	1.06	.91	.79	MSTB 2.5/4-G-5.08	1759033
5	5.08	20.32	25.40	2.54	277-1098-ND	1.33	1.14	.98	MSTB 2.5/5-G-5.08	1759046
6	5.08	25.40	30.48	2.54	277-1099-ND	1.55	1.33	1.15	MSTB 2.5/6-G-5.08	1759059
7	5.08	30.48	35.56	2.54	277-1100-ND	1.83	1.57	1.35	MSTB 2.5/7-G-5.08	1759062
8	5.08	35.56	40.64	2.54	277-1101-ND	2.09	1.79	1.54	MSTB 2.5/8-G-5.08	1759075
9	5.08	40.64	45.72	2.54	277-1102-ND	2.35	2.02	1.73	MSTB 2.5/9-G-5.08	1759088
10	5.08	45.72	50.80	2.54	277-1103-ND	2.60	2.23	1.92	MSTB 2.5/10-G-5.08	1759091
11	5.08	50.80	55.88	2.54	277-1104-ND	2.89	2.48	2.13	MSTB 2.5/11-G-5.08	1759101
12	5.08	55.88	60.96	2.54	277-1105-ND	3.15	2.70	2.32	MSTB 2.5/12-G-5.08	1759114
Fig. 18 — 5mm Connector Header — Right Angle										
2	5.0	5	12	3.5	277-1117-ND	.54	.46	.40	MSTBA 2.5/2-G	1757475
3	5.0	10	17	3.5	277-1118-ND	.81	.70	.60	MSTBA 2.5/3-G	1757488
4	5.0	15	22	3.5	277-1119-ND	1.09	.94	.81	MSTBA 2.5/4-G	1757491
5	5.0	20	27	3.5	277-1120-ND	1.36	1.17	1.01	MSTBA 2.5/5-G	1757501
6	5.0	25	32	3.5	277-1121-ND	1.61	1.38	1.19	MSTBA 2.5/6-G	1757514
7	5.0	30	37	3.5	277-1122-ND	1.90	1.63	1.40	MSTBA 2.5/7-G	1755493
8	5.0	35	42	3.5	277-1123-ND	2.15	1.84	1.59	MSTBA 2.5/8-G	1757527
9	5.0	40	47	3.5	277-1124-ND	2.45	2.10	1.81	MSTBA 2.5/9-G	1757530
10	5.0	45	52	3.5	277-1125-ND	2.69	2.31	1.98	MSTBA 2.5/10-G	1757543
11	5.0	50	57	3.5	277-1126-ND	3.00	2.57	2.21	MSTBA 2.5/11-G	1757556
12	5.0	55	62	3.5	277-1127-ND	3.28	2.81	2.42	MSTBA 2.5/12-G	1757569
Fig. 18 — 5.08mm Connector Header — Right Angle										
2	5.08	5.08	12.16	3.54	277-1106-ND	.51	.44	.38	MSTBA 2.5/2-G-5.08	1757242
3	5.08	10.16	17.24	3.54	277-1107-ND	.79	.68	.58	MSTBA 2.5/3-G-5.08	1757255
4	5.08	15.24	22.32	3.54	277-1108-ND	1.05	.90	.78	MSTBA 2.5/4-G-5.08	1757268
5	5.08	20.32	27.40	3.54	277-1109-ND	1.31	1.13	.97	MSTBA 2.5/5-G-5.08	1757271
6	5.08	25.40	32.48	3.54	277-1110-ND	1.54	1.32	1.14	MSTBA 2.5/6-G-5.08	1757284
7	5.08	30.48	37.56	3.54	277-1111-ND	1.83	1.57	1.35	MSTBA 2.5/7-G-5.08	1757297
8	5.08	35.56	42.64	3.54	277-1112-ND	2.08	1.78	1.53	MSTBA 2.5/8-G-5.08	1757307
9	5.08	40.64	47.72	3.54	277-1113-ND	2.35	2.02	1.73	MSTBA 2.5/9-G-5.08	1757310
10	5.08	45.72	52.80	3.54	277-1114-ND	2.59	2.22	1.91	MSTBA 2.5/10-G-5.08	1757323
11	5.08	50.80	57.88	3.54	277-1115-ND	2.89	2.48	2.13	MSTBA 2.5/11-G-5.08	1757336
12	5.08	55.88	62.96	3.54	277-1116-ND	3.11	2.67	2.30	MSTBA 2.5/12-G-5.08	1757349
Fig. 19 — 5mm Connector Header — Vertical										
2	5.0	5	12	3.5	277-1140-ND	.54	.46	.40	MSTBVA 2.5/2-G	1755516
3	5.0	10	17	3.5	277-1141-ND	.81	.70	.60	MSTBVA 2.5/3-G	1755529
4	5.0	15	22	3.5	277-1142-ND	1.09	.94	.81	MSTBVA 2.5/4-G	1755532
5	5.0	20	27	3.5	277-1143-ND	1.38	1.18	1.02	MSTBVA 2.5/5-G	1755545
6	5.0	25	32	3.5	277-1144-ND	1.61	1.38	1.19	MSTBVA 2.5/6-G	1755558
7	5.0	30	37	3.5	277-1145-ND	1.90	1.63	1.40	MSTBVA 2.5/7-G	1755561
8	5.0	35	42	3.5	277-1146-ND	2.15	1.84	1.59	MSTBVA 2.5/8-G	1755574
9	5.0	40	47	3.5	277-1147-ND	2.45	2.10	1.81	MSTBVA 2.5/9-G	1755587
10	5.0	45	52	3.5	277-1139-ND	2.70	2.32	1.99	MSTBVA 2.5/10-G	1755503
11	5.0	50	57	3.5	277-1148-ND	3.00	2.57	2.21	MSTBVA 2.5/11-G	1755590
12	5.0	55	62	3.5	277-1149-ND	3.28	2.81	2.42	MSTBVA 2.5/12-G	1755600
Fig. 19 — 5.08mm Connector Header — Vertical										
2	5.08	5.08	12.16	3.54	277-1150-ND	.51	.44	.38	MSTBVA 2.5/2-G-5.08	1755736
3	5.08	10.16	17.24	3.54	277-1151-ND	.79	.68	.58	MSTBVA 2.5/3-G-5.08	1755749
4	5.08	15.24	22.32	3.54	277-1152-ND	1.05	.90	.78	MSTBVA 2.5/4-G-5.08	1755752
5	5.08	20.32	27.40	3.54	277-1153-ND	1.31	1.13	.97	MSTBVA 2.5/5-G-5.08	1755765
6	5.08	25.40	32.48	3.54	277-1154-ND	1.54	1.32	1.14	MSTBVA 2.5/6-G-5.08	1755778
7	5.08	30.48	37.56	3.54	277-1155-ND	1.81	1.56	1.34	MSTBVA 2.5/7-G-5.08	1755781
8	5.08	35.56	42.64	3.54	277-1156-ND	2.08	1.78	1.53	MSTBVA 2.5/8-G-5.08	1755794
9	5.08	40.64	47.72	3.54	277-1157-ND	2.35	2.02	1.73	MSTBVA 2.5/9-G-5.08	1755804
10	5.08	45.72	52.80	3.54	277-1158-ND	2.59	2.22	1.91	MSTBVA 2.5/10-G-5.08	1755817
11	5.08	50.80	57.88	3.54	277-1159-ND	2.89	2.48	2.13	MSTBVA 2.5/11-G-5.08	1755820
12	5.08	55.88	62.96	3.54	277-1160-ND	3.11	2.67	2.30	MSTBVA 2.5/12-G-5.08	1755833

No. of Pos.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 20 — 5.0mm and 5.08mm Double Level PCB Header without Side Panels										
2	5.00	5.00	10.00	2.50	277-1901-ND	1.98	1.70	1.46	MDSTBV 2.5/2-G	1763032
3	5.00	10.00	15.00	2.50	277-1943-ND	2.85	2.44	2.10	MDSTBV 2.5/3-G	1763045
2	5.08	5.08	10.16	2.54	277-1944-ND	1.98	1.70	1.46	MDSTBV 2.5/2-G-5.08	1763074
3	5.08	10.16	15.24	2.54	277-1945-ND	2.83	2.42	2.08	MDSTBV 2.5/3-G-5.08	1763087
Fig. 21 — 5.0mm and 5.08mm Double Level PCB Header without Side Panels										
2	5.00	—	10.00	2.50	277-1379-ND	1.98	1.70	1.46	MDSTB 2.5/2-G	1762046
3	5.00	—	15.00	2.50	277-1380-ND	2.85	2.44	2.10	MDSTB 2.5/3-G	1762059
2	5.08	—	10.16	2.54	277-1381-ND	1.96	1.68	1.45	MDSTB 2.5/2-G-5.08	1762062
3	5.08	—	15.24	2.54	277-1382-ND	2.85	2.44	2.10	MDSTB 2.5/3-G-5.08	1762075
Fig. 22 — 7.62mm Connector Terminal Block Plug										
2	7.62	7.62	15.22	3.8	277-1463-ND	4.15	3.56	3.06	PC 4 HV/2-ST-7.62	1848892
3	7.62	15.24	22.84	3.8	277-1464-ND	6.28	5.38	4.62	PC 4 HV/3-ST-7.62	1848902
4	7.62	22.86	30.46	3.8	277-1465-ND	8.34	7.14	6.14	PC 4 HV/4-ST-7.62	1848915
Fig. 23 — 7.62mm Connector Terminal Block Plug										
2	7.62	7.62	15.24	3.81	277-1868-ND	3.15	2.70	2.32	PC 5/2-ST-7.62	1975587
3	7.62	15.24	22.86	3.81	277-1869-ND	4.73	4.05	3.48	PC 5/3-ST-7.62	1975590
4	7.62	22.86	30.48	3.81	277-1870-ND	6.30	5.40	4.64	PC 5/4-ST-7.62	1975600
5	7.62	30.48	38.10	3.81	277-1871-ND	7.66	6.56	5.64	PC 5/5-ST-7.62	1975613
6	7.62	38.10	45.72	3.81	277-1872-ND	9.46	8.10	6.97	PC 5/6-ST-7.62	1975626
7	7.62	45.72	53.34	3.81	277-1873-ND	10.73	9.19	7.90	PC 5/7-ST-7.62	1975639
8	7.62	53.34	60.96	3.81	277-1874-ND	12.26	10.50	9.03	PC 5/8-ST-7.62	1975642
9	7.62	60.96	68.58	3.81	277-1875-ND	13.80	11.82	10.16	PC 5/9-ST-7.62	1975655
10	7.62	68.58	76.20	3.81	277-1876-ND	15.33	13.12	11.28	PC 5/10-ST-7.62	1975668
11	7.62	76.20	83.82	3.81	277-1877-ND	16.86	14.44	12.42	PC 5/11-ST-7.62	1975671
12	7.62	83.82	91.44	3.81	277-1878-ND	18.39	15.74	13.54	PC 5/12-ST-7.62	1975684
Fig. 24 — 7.62mm Connector Header — Right Angle										
2	7.62	7.62	15.22	3.8	277-1466-ND	2.70	2.32	1.99	PC 4/2-G-7.62	1804797
3	7.62	15.24	22.84	3.8	277-1467-ND	4.05	3.47	2.99	PC 4/3-G-7.62	1804807
4	7.62	22.86	30.46	3.8	277-1468-ND	5.34	4.57	3.93	PC 4/4-G-7.62	1804810
Fig. 25 — 7.62mm Connector Header — Vertical										
2	7.62	7.62	15.22	3.8	277-1469-ND	2.70	2.32	1.99	PCV 4/2-G-7.62	1804687
3	7.62	15.24	22.84	3.8	277-1470-ND	4.05	3.47	2.99	PCV 4/3-G-7.62	1804690
4	7.62	22.86	30.46	3.8	277-1471-ND	5.34	4.57	3.93	PCV 4/4-G-7.62	1804700
Fig. 26 — 10.16mm Connector Terminal Block Plug										
2	10.16	10.16	19.36	4.6	277-1829-ND	7.05	6.04	5.19	PC 6/2-ST-10.16	1913507
3	10.16	20.32	29.52	4.6	277-1830-ND	10.58	9.06	7.79	PC 6/3-ST-10.16	1913510
4	10.16	30.48	39.68	4.6	277-1831-ND	14.10	12.07	10.38	PC 6/4-ST-10.16	1913523
5	10.16	40.64	49.84	4.6	277-1832-ND	17.63	15.09	12.98	PC 6/5-ST-10.16	1913536
6	10.16	50.80	60.00	4.6	277-1833-ND	21.14	18.10	15.56	PC 6/6-ST-10.16	1913549
7	10.16	60.96	70.16	4.6	277-1834-ND	24.68	21.13	18.17	PC 6/7-ST-10.16	1913552
8	10.16	71.12	80.32	4.6	277-1835-ND	28.20	24.14	20.76	PC 6/8-ST-10.16	1913565
Fig. 27 — 10.16mm Connector Terminal Block Plug										
2	10.16	10.16	20.16	—	277-1836-ND	7.43	6.36	5.47	PC 16/2-ST-10.16	1967375
3	10.16	20.32	30.32	—	277-1837-ND	11.14	9.54	8.20	PC 16/3-ST-10.16	1967388
4	10.16	30.48	40.48	—	277-1838-ND	14.86	12.73	10.94	PC 16/4-ST-10.16	1967391
5	10.16	40.64	50.64	—	277-1839-ND	18.56	15.89	13.67	PC 16/5-ST-10.16	1967401
6	10.16	50.80	60.80	—	277-1840-ND	22.28	19.07	16.40	PC 16/6-ST-10.16	1967414
7	10.16	60.96	70.96	—	277-1841-ND	25.99	22.25	19.13	PC 16/7-ST-10.16	1967427
8	10.16	71.12	81.12	—	277-1842-ND	29.70	25.43	21.86	PC 16/8-ST-10.16	1967430
9	10.16	81.28	91.28	—	277-1843-ND	33.41	28.61	24.60	PC 16/9-ST-10.16	1967443
Fig. 28 — 10.16mm Terminal Block Header — Right Angle										
2	10.16	10.16	23.36	—	277-1844-ND	4.46	3.82	3.29	PC 6-16/2-G1-10.16	1998933
3	10.16	20.32	33.52	—	277-1845-ND	6.70	5.74	4.94	PC 6-16/3-G1-10.16	1998946
4	10.16	30.48	43.68	—	277-1846-ND	8.94	7.66	6.58	PC 6-16/4-G1-10.16	1998959
5	10.16	40.64	53.84	—	277-1847-ND	11.16	9.56	8.22	PC 6-16/5-G1-10.16	1998962
6	10.16	50.80	64.00	—	277-1848-ND	13.43	11.50	9.89	PC 6-16/6-G1-10.16	1998975
7	10.16	60.96	74.16	—	277-1849-ND	15.65	13.40	11.52	PC 6-16/7-G1-10.16	1998988
8	10.16	71.12	84.32	—	277-1850-ND	17.86	15.29	13.15	PC 6-16/8-G1-10.16	1998991
9	10.16	81.28	94.48	—	277-1851-ND	20.14	17.24	14.83	PC 6-16/9-G1-10.16	1996391
Fig. 29 — 10.16mm Terminal Block Header — Vertical										
2	10.16	10.16	23.36	6.6	277-1852-ND	4.46	3.82	3.29	PCV 6-16/2-G1-10.16	1998784
3	10.16	20.32	33.52	6.6	277-1853-ND	6.70	5.74	4.94	PCV 6-16/3-G1-10.16	1998797
4	10.16	30.48	43.68	6.6	277-1854-ND	8.94	7.66	6.58	PCV 6-16/4-G1-10.16	1998807
5	10.16	40.64	53.84	6.6	277-1855-ND	11.19	9.58	8.24	PCV 6-16/5-G1-10.16	1998810
6	10.16	50.80	64.00	6.6	277-1856-ND	13.43	11.50	9.89	PCV 6-16/6-G1-10.16	1998823
7	10.16	60.96	74.16	6.6	277-1857-ND	15.63	13.38	11.50	PCV 6-16/7-G1-10.16	1998836
8	10.16	71.12	84.32	6.6	277-1858-ND	17.86	15.29	13.15	PCV 6-16/8-G1-10.16	1998849
9	10.16	81.28	94.48	6.6	277-1859-ND	20.10	17.21	14.80	PCV 6-16/9-G1-10.16	1998852

PCB Terminal Blocks

Fig. 1

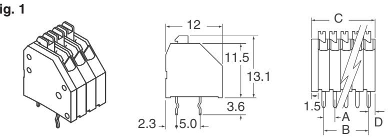

UL: 300V @ 2A, 26-20AWG **IEC:** 160V @ 2A, 24-20AWG **Color:** Green

Fig. 2

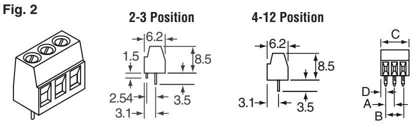

UL: 125V @ 6A, 30-20AWG **IEC:** 63V @ 6A, 26-20AWG **Color:** Green

Fig. 3

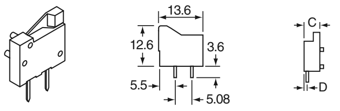

UL: 150V @ 6A, 26-20AWG **IEC:** 63V @ 6A, 26-20AWG **Color:** Green

Fig. 4

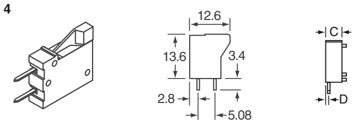

UL: 150V @ 6A, 26-20AWG **IEC:** 63V @ 6A, 26-20AWG **Color:** Green

Fig. 5

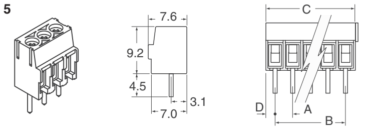

UL: 300V @ 10A, 26-16AWG **IEC:** 160V @ 17.5A, 26-16AWG **Color:** Green

Fig. 6

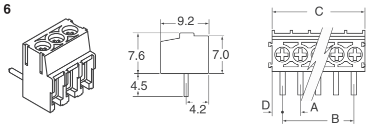

UL: 300V @ 10A, 26-16AWG **IEC:** 160V @ 17.5A, 26-16AWG **Color:** Green

Fig. 7

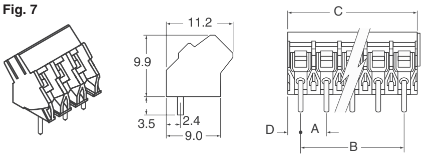

UL: 300V @ 10A, 26-16AWG **IEC:** 160V @ 17.5A, 26-16AWG **Color:** Green

Fig. 8

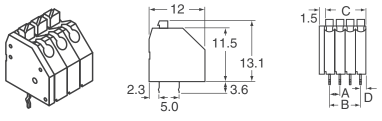

UL: 300V @ 2A, 24-16AWG **IEC:** 250V @ 2A, 20-16AWG **Color:** Green

Fig. 9

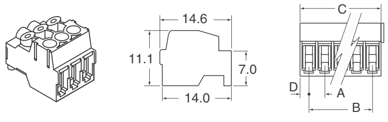

UL: 300V @ 10A, 26-16AWG **IEC:** 160V @ 8A, 26-16AWG **Color:** Green

No. of Pos.	Dimensions — mm A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 1 — 2.5mm Compact with Spring-Cage Connection										
2	2.5	2.5	5	1.25	277-1794-ND	.29	.26	.21	PTSA 0.5/2-2.5-Z	1990009
3	2.5	5	7.5	1.25	277-1795-ND	.43	.39	.32	PTSA 0.5/3-2.5-Z	1990012
4	2.5	7.5	10	1.25	277-1796-ND	.56	.50	.41	PTSA 0.5/4-2.5-Z	1990025
5	2.5	10	12.5	1.25	277-1797-ND	.51	.46	.38	PTSA 0.5/5-2.5-Z	1990038
6	2.5	12.5	15	1.25	277-1798-ND	.63	.57	.47	PTSA 0.5/6-2.5-Z	1990041
7	2.5	15	17.5	1.25	277-1799-ND	.73	.65	.54	PTSA 0.5/7-2.5-Z	1990054
8	2.5	17.5	20	1.25	277-1800-ND	.82	.74	.61	PTSA 0.5/8-2.5-Z	1990067
9	2.5	20	22.5	1.25	277-1801-ND	.95	.84	.70	PTSA 0.5/9-2.5-Z	1990070
10	2.5	22.5	25	1.25	277-1802-ND	1.04	.93	.77	PTSA 0.5/10-2.5-Z	1990083
11	2.5	25	27.5	1.25	277-1803-ND	1.05	.90	.78	PTSA 0.5/11-2.5-Z	1990096
12	2.5	27.5	30	1.25	277-1804-ND	1.15	.99	.85	PTSA 0.5/12-2.5-Z	1990106
13	2.5	30	32.5	1.25	277-1805-ND	1.26	1.09	.93	PTSA 0.5/13-2.5-Z	1990119
14	2.5	32.5	35	1.25	277-1806-ND	1.35	1.16	1.00	PTSA 0.5/14-2.5-Z	1990122
15	2.5	35	37.5	1.25	277-1807-ND	1.44	1.24	1.06	PTSA 0.5/15-2.5-Z	1990135
16	2.5	37.5	40	1.25	277-1808-ND	1.55	1.33	1.15	PTSA 0.5/16-2.5-Z	1990148
17	2.5	40	42.5	1.25	277-1809-ND	1.65	1.42	1.22	PTSA 0.5/17-2.5-Z	1990151
18	2.5	42.5	45	1.25	277-1810-ND	1.74	1.49	1.28	PTSA 0.5/18-2.5-Z	1990164
19	2.5	45	47.5	1.25	277-1811-ND	1.84	1.58	1.36	PTSA 0.5/19-2.5-Z	1990177
20	2.5	47.5	50	1.25	277-1812-ND	1.94	1.66	1.43	PTSA 0.5/20-2.5-Z	1990180
21	2.5	50	52.5	1.25	277-1813-ND	2.03	1.74	1.50	PTSA 0.5/21-2.5-Z	1990193
22	2.5	52.5	55	1.25	277-1814-ND	2.14	1.83	1.58	PTSA 0.5/22-2.5-Z	1990203
23	2.5	55	57.5	1.25	277-1815-ND	2.23	1.91	1.64	PTSA 0.5/23-2.5-Z	1990229
24	2.5	57.5	60	1.25	277-1816-ND	2.31	1.98	1.71	PTSA 0.5/24-2.5-Z	1990232
Fig. 2 — 2.54mm Micro with Screw Connection										
2	2.54	2.54	5.54	1.5	277-1273-ND	1.20	1.03	.89	MPT 0.5/2-2.54	1725656
3	2.54	5.08	8.08	1.5	277-1274-ND	1.81	1.56	1.34	MPT 0.5/3-2.54	1725669
4	2.54	7.62	10.62	1.5	277-1275-ND	2.41	2.07	1.78	MPT 0.5/4-2.54	1725672
5	2.54	10.16	13.16	1.5	277-1276-ND	3.01	2.58	2.22	MPT 0.5/5-2.54	1725685
6	2.54	12.70	15.70	1.5	277-1277-ND	3.61	3.10	2.66	MPT 0.5/6-2.54	1725698
7	2.54	15.24	18.24	1.5	277-1278-ND	4.21	3.61	3.11	MPT 0.5/7-2.54	1725708
8	2.54	17.78	20.78	1.5	277-1279-ND	4.81	4.12	3.55	MPT 0.5/8-2.54	1725711
9	2.54	20.32	23.32	1.5	277-1280-ND	5.43	4.65	4.00	MPT 0.5/9-2.54	1725724
10	2.54	22.86	25.86	1.5	277-1281-ND	6.01	5.15	4.43	MPT 0.5/10-2.54	1725737
11	2.54	25.40	28.40	1.5	277-1282-ND	6.63	5.68	4.88	MPT 0.5/11-2.54	1725740
12	2.54	27.94	30.94	1.5	277-1283-ND	7.23	6.19	5.32	MPT 0.5/12-2.54	1725753
Fig. 3 — 2.54mm with Spring-Cage Connection										
1	—	—	2.54	0.9	277-1310-ND	.90	.81	.67	FFKDS/H-2.54	1791826
5.08mm End Block for FFKDS/H-2.54					277-1311-ND	1.33	1.14	.98	FFKDSA1/H-5.08	1791868
Fig. 4 — 2.54mm with Spring-Cage Connection										
1	—	—	2.54	0.9	277-1312-ND	.90	.81	.67	FFKDS/V-2.54	1791813
5.08mm End Block for FFKDS/V-2.54					277-1313-ND	1.28	1.10	.94	FFKDSA1/V-5.08	1791855
Fig. 5 — 3.5mm Compact with Screw Connection										
2	3.5	3.5	7	1.75	277-1721-ND	.45	.40	.33	PT 1.5/2-3.5-H	1984617
3	3.5	7	10.5	1.75	277-1722-ND	.67	.60	.49	PT 1.5/3-3.5-H	1984620
4	3.5	10.5	14	1.75	277-1860-ND	.88	.79	.64	PT 1.5/4-3.5-H	1984633
5	3.5	14	17.5	1.75	277-1723-ND	.82	.74	.61	PT 1.5/5-3.5-H	1984646
6	3.5	17.5	21	1.75	277-1724-ND	.99	.88	.73	PT 1.5/6-3.5-H	1984659
7	3.5	21	24.5	1.75	277-1861-ND	1.16	1.04	.86	PT 1.5/7-3.5-H	1984662
8	3.5	24.5	28	1.75	277-1725-ND	1.32	1.18	.98	PT 1.5/8-3.5-H	1984675
9	3.5	28	31.5	1.75	277-1726-ND	1.50	1.34	1.11	PT 1.5/9-3.5-H	1984688
10	3.5	31.5	35	1.75	277-1727-ND	1.66	1.48	1.23	PT 1.5/10-3.5-H	1984691
11	3.5	35	38.5	1.75	277-1728-ND	1.68	1.44	1.24	PT 1.5/11-3.5-H	1984701
12	3.5	38.5	42	1.75	277-1729-ND	1.85	1.59	1.37	PT 1.5/12-3.5-H	1984714
13	3.5	42	45.5	1.75	277-1730-ND	1.99	1.71	1.47	PT 1.5/13-3.5-H	1984727
14	3.5	45.5	49	1.75	277-1731-ND	2.16	1.86	1.60	PT 1.5/14-3.5-H	1984730
15	3.5	49	52.5	1.75	277-1732-ND	2.30	1.97	1.70	PT 1.5/15-3.5-H	1984743
16	3.5	52.5	56	1.75	277-1733-ND	2.46	2.11	1.82	PT 1.5/16-3.5-H	1984756
Fig. 6 — 3.5mm Compact with Screw Connection										
2	3.5	3.5	7	1.75	277-1734-ND	.49	.44	.36	PT 1.5/2-3.5-V	1984769
3	3.5	7	10.5	1.75	277-1735-ND	.74	.66	.54	PT 1.5/3-3.5-V	1984772
4	3.5	10.5	14	1.75	277-1736-ND	.97	.87	.71	PT 1.5/4-3.5-V	1984785
5	3.5	14	17.5	1.75	277-1737-ND	.92	.82	.68	PT 1.5/5-3.5-V	1984798
6	3.5	17.5	21	1.75	277-1738-ND	1.11	.99	.82	PT 1.5/6-3.5-V	1984808
7	3.5	21	24.5	1.75	277-1739-ND	1.28	1.14	.95	PT 1.5/7-3.5-V	1984811
8	3.5	24.5	28	1.75	277-1740-ND	1.47	1.31	1.09	PT 1.5/8-3.5-V	1984824
9	3.5	28	31.5	1.75	277-1741-ND	1.65	1.47	1.22	PT 1.5/9-3.5-V	1984837
10	3.5	31.5	35	1.75	277-1742-ND	1.82	1.62	1.35	PT 1.5/10-3.5-V	1984840
11	3.5	35	38.5	1.75	277-1743-ND	1.88	1.61	1.38	PT 1.5/11-3.5-V	1984853
12	3.5	38.5	42	1.75	277-1744-ND	2.03	1.74	1.50	PT 1.5/12-3.5-V	1984866
13	3.5	42	45.5	1.75	277-1745-ND	2.21	1.90	1.63	PT 1.5/13-3.5-V	1984879
14	3.5	45.5	49	1.75	277-1746-ND	2.36	2.03	1.74	PT 1.5/14-3.5-V	1984882
15	3.5	49	52.5	1.75	277-1747-ND	2.55	2.19	1.88	PT 1.5/15-3.5-V	1984895
16	3.5	52.5	56	1.75	277-1748-ND	2.71	2.33	2.00	PT 1.5/16-3.5-V	1984905
Fig. 7 — 3.5mm with Screw Connection — 45°										
2	3.5	3.5	7	1.75	277-1779-ND	.45	.40	.33	PTA 1.5/2-3.5	1988956
3	3.5	7	10.5	1.75	277-1780-ND	.67	.60	.49	PTA 1.5/3-3.5	1988969
4	3.5	10.5	14	1.75	277-1781-ND	.88	.79	.64	PTA 1.5/4-3.5	1988972
5	3.5	14	17.5	1.75	277-1782-ND	.82	.74	.61	PTA 1.5/5-3.5	1988985
6	3.5	17.5	21	1.75	277-1783-ND	.99	.88	.73	PTA 1.5/6-3.5	1988998
7	3.5	21	24.5	1.75	277-1784-ND	1.16	1.04	.86	PTA 1.5/7-3.5	1989007
8	3.5	24.5	28	1.75	277-1785-ND	1.32	1.18	.98	PTA 1.5/8-3.5	1989010
9	3.5	28	31.5	1.75	277-1786-ND	1.50	1.34	1.11	PTA 1.5/9-3.5	1989023
10	3.5	31.5	35	1.75	277-1787-ND	1.66	1.48	1.23	PTA 1.5/10-3.5	1989036
11	3.5	35	38.5	1.75	277-1788-ND	1.68	1.44	1.24	PTA 1.5/11-3.5	1989049
12	3.5	38.5	42	1.75	277-1789-ND	1.85	1.59	1.37	PTA 1.5/12-3.5	1989052
13	3.5	42	45.5	1.75	277-1790-ND	1.99	1.71	1.47	PTA 1.5/13-3.5	1989065
14	3.5	45.5	49	1.75	277-1791-ND	2.16	1.86	1.60	PTA 1.5/14-3.5	1989078
15	3.5	49	52.5	1.75	277-1792-ND	2.30	1.97	1.70	PTA 1.5/15-3.5	1989081
16	3.5	52.5	56	1.75	277-1793-ND	2.46	2.11	1.82	PTA 1.5/16-3.5	1989094
Fig. 8 — 3.5mm Compact with Spring-Cage Connection — 45°										
2	3.5	3.5	7	1.75	277-1622-ND	.29	.26	.21	PTSA 1.5/2-3.5-Z	1985195
3	3.5	7	10.5	1.75	277-1623-ND	.43	.39	.32	PTSA 1.5/3-3.5-Z	1985205
4	3.5	10.5	14	1.75	277-1624-ND	.56	.50	.41	PTSA 1.5/4-3.5-Z	1985218
5	3.5	14	17.5	1.75	277-1625-ND	.51	.46	.38	PTSA 1.5/5-3.5-Z	1985221
6	3.5	17.5	21	1.75	277-1626-ND	.63	.57	.47	PTSA 1.5/6-3.5-Z	1985234
7	3.5	21	24.5	1.75	277-1627-ND	.73	.65	.54	PTSA 1.5/7-3.5-Z	1985247
8	3.5	24.5	28	1.75	277-1628-ND	.82	.74	.61	PTSA 1.5/8-3.5-Z	1985250
9	3.5	28	31.5	1.75	277-1629-ND	.95	.84	.70	PTSA 1.5/9-3.5-Z	1985263
10	3.5	31.5	35	1.75	277-1630-ND	1.04	.93	.77	PTSA 1.5/10-3.5-Z	1985276
11	3.5	35	38.5	1.75	277-1631-ND	1.05	.90	.78	PTSA 1.5/11-3.5-Z	1985289
12	3.5	38.5	42	1.75	277-1632-ND	1.15	.99	.85	PTSA 1.5/12-3.5-Z	1985292
13	3.5	42	45.5	1.75	277-1633-ND	1.26	1.09	.93	PTSA 1.5/13-3.5-Z	1985302
14	3.5	45.5	49	1.75	277-1634-ND	1.35	1.16	1.00	PTSA 1.5/14-3.5-Z	1985315
15	3.5	49	52.5	1.75	277-1635-ND	1.44	1.24	1.06	PTSA 1.5/15-3.5-Z	1985328
16	3.5	52.5	56	1.75	277-1636-ND	1.55	1.33	1.15	PTSA 1.5/16-3.5-Z	1985331
17	3.5	56	59.5	1.75	277-1637-ND	1.65	1.42	1.22	PTSA 1.5/17-3.5-Z	1985344
18	3.5	59.5	63	1.75	277-1638-ND	1.74	1.49	1.28	PTSA 1.5/18-3.5-Z	1985357
19	3.5	63	66.5	1.75	277-1639-ND	1.84	1.58	1.36	PTSA 1.5/19-3.5-Z	1985360
20	3.5	66.5	70	1.75	277-1640-ND	1.94	1.66	1.43	PTSA 1.5/20-3.5-Z	1985373
21	3.5	70	73.5	1.75	277-1641-ND	2.03	1.74	1.50	PTSA 1.5/21-3.5-Z	1985386
22	3.5	73.5	77	1.75	277-1642-ND	2.14	1.83	1.58	PTSA 1.5/22-3.5-Z	1985399
23	3.5	77	80.5	1.75	277-1643-ND	2.23	1.91	1.64	PTSA 1.5/23-3.5-Z	1985409
24	3.5	80.5	84	1.75	277-1644-ND	2.31	1.98	1.71	PTSA 1.5/24-3.5-Z	1985412
Fig. 9 — 3.5mm Compact Plug with Screw Connection										
2	3.5	3.5	7	1.75	277-1706-ND	.43	.39	.32	PT 1.5/2-PVH-3.5	1984015
3	3.5	7	10.5	1.75	277-1707-ND	.63	.56	.46	PT 1.5/3-PVH-3.5	1984028
4	3.5	10.5	14	1.75	277-1708-ND	.86	.77	.63	PT 1.5/4-PVH-3.5	1984031
5	3.5	14	17.5	1.75	277-1709-ND	.80	.71	.59	PT 1.5/5-PVH-3.5	1984044
6	3.5	17.5	21	1.75	277-1710-ND	.99	.88	.73	PT 1.5/6-PVH-3.5	1984057
7	3.5	21	24.5	1.75	277-1711-ND	1.15	1.02	.85	PT 1.5/7-PVH-3.5	1984060
8	3.5	24.5	28	1.75	277-1712-ND	1.31	1.17	.97	PT 1.5/8-PVH-3.5	1984073
9	3.5	28	31.5	1.75	277-1713-ND	1.47	1.31	1.09	PT 1.5/9-PVH-3.5	1984086
10	3.5	31.5	35	1.75	277-1714-ND	1.63	1.46	1.21	PT 1.5/10-PVH-3.5	1984099
11	3.5	35	38.5	1.75	277-1715-ND	1.65	1.42	1.22	PT 1.5/11-PVH-3.5	1984109
12	3.5	38.5	42	1.75	277-1716-ND	1.81	1.56	1.34	PT 1.5/12-PVH-3.5	1984112
13	3.5	42	45.5	1.75	277-1717-ND	1.95	1.67	1.44	PT 1.5/13-PVH-3.5	1984125
14	3.5	45.5	49	1.75	277-1718-ND	2.10	1.80	1.55	PT 1.5/14-PVH-3.5	1984138
15	3.5	49	52.5	1.75	277-1719-ND	2.25	1.93	1.66	PT 1.5/15-PVH-3.5	1984141
16	3.5	52.5	56	1.75	277-1720-ND	2.40	2.06	1.77	PT 1.5/16-PVH-3.5	1984154
Fig. 10 — 3.5mm Pin Strip										
2	3.5	3.5	7	1.75	277-1749-ND	.10	.09	.08	PST 1.0/2-3.5	1945096
3	3.5	7	10.5	1.75	277-1750-ND	.16	.14	.12	PST 1.0/3-3.5	1945106
4	3.5	10.5	14	1.75	277-1751-ND	.24	.21	.18	PST 1.0/4-3.5	1945119
5	3.5	14	17.5	1.75	277-1752-ND	.29	.25	.22	PST 1.0/5-3.5	1945122
6	3.5	17.5	21	1.75	277-1753-ND	.34	.29	.25	PST 1.0/6-3.5	1945135

(Continued)

Fig. 10

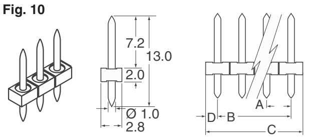

UL: 300V @ 10A **IEC:** 160V @ 8A **Color:** Black
Note: Suitable for reflow solder process

Fig. 11

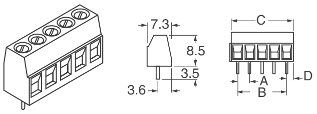

UL: 300V @ 10A, 30-16AWG
IEC: 160V @ 12A, 26-16AWG **Color:** Green

Fig. 12

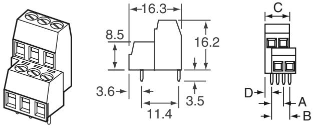

UL: 300V @ 10A, 30-16AWG
IEC: 160V @ 10A, 26-16AWG **Color:** Green

Fig. 13

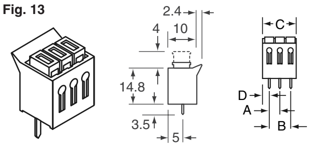

UL: 300V @ 5A, 28-22AWG
IEC: 160V @ 5A, 26-22AWG **Color:** Green

Fig. 14

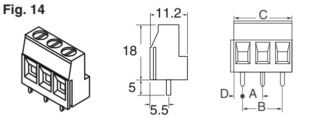

UL: 300V @ 15A, 30-12AWG
IEC: 250V @ 28A, 24-12AWG **Color:** Green

Fig. 15

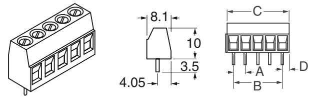

UL: 300V @ 10A, 30-14AWG
IEC: 250V @ 13.5A, 26-16AWG **Color:** Green

Fig. 16

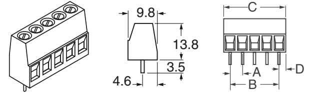

UL: 300V @ 15A, 30-14AWG
IEC: 250V @ 24A, 26-14AWG **Color:** Green

Fig. 17

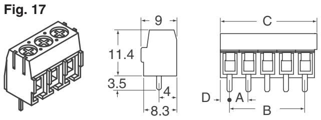

UL: 300V @ 15A, 26-12AWG
IEC: 250V @ 20A, 26-14AWG **Color:** Green

Fig. 18

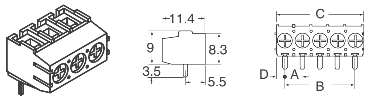

UL: 300V @ 15A, 26-12AWG **IEC:** 250V @ 20A, 26-14AWG **Color:** Green

Fig. 19

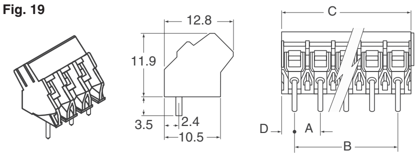

UL: 300V @ 15A, 26-12AWG **IEC:** 250V @ 17.5A, 26-14AWG **Color:** Green

Fig. 20

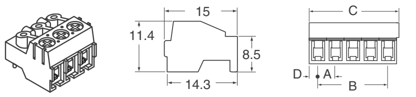

UL: 300V @ 15A, 26-12AWG **IEC:** 250V @ 12A, 26-14AWG **Color:** Green

No. of Pos.	Dimensions — mm				Digi-Key Part No.	Price Each			Phoenix Contact Type No.	Phoenix Contact Part No.
	A	B	C	D		1	10	100		
7	3.5	21	24.5	1.75	277-1754-ND	.40	.35	.30	PST 1.0/7-3.5	1945148
8	3.5	24.5	28	1.75	277-1755-ND	.45	.39	.34	PST 1.0/8-3.5	1945151
9	3.5	28	31.5	1.75	277-1756-ND	.50	.43	.37	PST 1.0/9-3.5	1945164
10	3.5	31.5	35	1.75	277-1757-ND	.56	.49	.42	PST 1.0/10-3.5	1945177
11	3.5	35	38.5	1.75	277-1758-ND	.64	.55	.47	PST 1.0/11-3.5	1945180
12	3.5	38.5	42	1.75	277-1759-ND	.69	.59	.51	PST 1.0/12-3.5	1945193
13	3.5	42	45.5	1.75	277-1760-ND	.74	.64	.55	PST 1.0/13-3.5	1945203
14	3.5	45.5	49	1.75	277-1761-ND	.79	.68	.58	PST 1.0/14-3.5	1945216
15	3.5	49	52.5	1.75	277-1762-ND	.85	.73	.63	PST 1.0/15-3.5	1945229
16	3.5	52.5	56	1.75	277-1763-ND	.90	.77	.67	PST 1.0/16-3.5	1945232
Fig. 11 — 3.81mm Mini with Screw Connection										
2	3.81	3.81	7.61	1.9	277-1947-ND	.96	.83	.71	MKDS 1/2-3.81	1727010
3	3.81	7.62	11.42	1.9	277-1948-ND	1.45	1.25	1.07	MKDS 1/3-3.81	1727023
4	3.81	11.43	15.23	1.9	277-1949-ND	1.94	1.66	1.43	MKDS 1/4-3.81	1727036
5	3.81	15.24	19.04	1.9	277-1950-ND	2.41	2.07	1.78	MKDS 1/5-3.81	1727049
6	3.81	19.05	22.85	1.9	277-1951-ND	2.90	2.49	2.14	MKDS 1/6-3.81	1727052
7	3.81	22.86	26.66	1.9	277-1952-ND	3.39	2.90	2.50	MKDS 1/7-3.81	1727065
8	3.81	26.67	30.47	1.9	277-1953-ND	3.88	3.32	2.86	MKDS 1/8-3.81	1727078
9	3.81	30.48	34.28	1.9	277-1954-ND	4.35	3.73	3.21	MKDS 1/9-3.81	1727081
10	3.81	34.29	38.09	1.9	277-1955-ND	4.83	4.13	3.56	MKDS 1/10-3.81	1727094
11	3.81	38.10	41.90	1.9	277-1946-ND	5.33	4.56	3.92	MKDS 1/11-3.81	1727104
12	3.81	41.91	45.71	1.9	277-1956-ND	5.80	4.97	4.27	MKDS 1/12-3.81	1727117
Fig. 12 — 3.81mm Mini with Screw Connection – Double-Level										
2	3.81	3.81	7.61	1.9	277-1356-ND	3.06	2.63	2.26	MKKDS 1/2-3.81	1708026
3	3.81	7.62	11.42	1.9	277-1357-ND	4.58	3.92	3.37	MKKDS 1/3-3.81	1708039
4	3.81	11.43	15.23	1.9	277-1358-ND	6.14	5.26	4.52	MKKDS 1/4-3.81	1708042
5	3.81	15.24	19.04	1.9	277-1359-ND	7.65	6.55	5.64	MKKDS 1/5-3.81	1708055
6	3.81	19.05	22.85	1.9	277-1360-ND	9.19	7.87	6.77	MKKDS 1/6-3.81	1708068
7	3.81	22.86	26.66	1.9	277-1361-ND	10.73	9.19	7.90	MKKDS 1/7-3.81	1708071
8	3.81	26.67	30.47	1.9	277-1362-ND	12.26	10.50	9.03	MKKDS 1/8-3.81	1708084
9	3.81	30.48	34.28	1.9	277-1363-ND	13.79	11.81	10.15	MKKDS 1/9-3.81	1708107
10	3.81	34.29	38.09	1.9	277-1364-ND	15.33	13.12	11.28	MKKDS 1/10-3.81	1708110
11	3.81	38.10	41.90	1.9	277-1365-ND	16.86	14.44	12.42	MKKDS 1/11-3.81	1708123
12	3.81	41.91	45.71	1.9	277-1366-ND	18.39	15.74	13.54	MKKDS 1/12-3.81	1708136
Fig. 13 — 3.81mm with Insulation Displacement Connection										
2	3.81	3.81	8.81	2.5	277-1417-ND	.96	.83	.71	IDC 0.3/2-3.81	1706170
3	3.81	7.62	12.62	2.5	277-1418-ND	1.44	1.24	1.06	IDC 0.3/3-3.81	1706183
4	3.81	11.43	16.43	2.5	277-1419-ND	1.91	1.64	1.41	IDC 0.3/4-3.81	1706196
5	3.81	15.24	20.24	2.5	277-1420-ND	2.39	2.05	1.76	IDC 0.3/5-3.81	1706206
6	3.81	19.06	24.05	2.5	277-1421-ND	2.88	2.47	2.12	IDC 0.3/6-3.81	1706219
7	3.81	22.86	27.86	2.5	277-1422-ND	3.35	2.87	2.47	IDC 0.3/7-3.81	1706222
8	3.81	26.67	31.67	2.5	277-1423-ND	3.83	3.28	2.82	IDC 0.3/8-3.81	1706235
9	3.81	30.48	35.48	2.5	277-1424-ND	4.31	3.70	3.18	IDC 0.3/9-3.81	1706248
10	3.81	34.29	39.29	2.5	277-1425-ND	4.79	4.10	3.53	IDC 0.3/10-3.81	1706251
11	3.81	38.10	43.10	2.5	277-1426-ND	5.26	4.51	3.88	IDC 0.3/11-3.81	1706264
12	3.81	41.91	46.91	2.5	277-1427-ND	5.75	4.93	4.24	IDC 0.3/12-3.81	1706277
Fig. 14 — 5.0mm with Screw Connection										
2	5	5	10	2.5	277-1022-ND	1.55	1.33	1.15	MKDS 3/2	1711026
3	5	10	15	2.5	277-1023-ND	2.33	1.99	1.72	MKDS 3/3	1711039
4	5	15	20	2.5	277-1024-ND	3.10	2.66	2.29	MKDS 3/4	1711042
8	5	35	40	2.5	277-1025-ND	6.21	5.32	4.58	MKDS 3/8	1711084
12	5	55	60	2.5	277-1026-ND	9.31	7.98	6.86	MKDS 3/12	1711123
Fig. 14 — 5.08mm with Screw Connection										
2	5.08	5.08	10.16	2.54	277-1027-ND	1.55	1.33	1.15	MKDS 3/2-5.08	1711725
3	5.08	10.16	15.24	2.54	277-1028-ND	2.33	1.99	1.72	MKDS 3/3-5.08	1711738
Fig. 15 — 5.0mm with Screw Connection										
2	5	5	10	2.5	277-1236-ND	.83	.71	.61	MKDSN 1.5/2	1729018
3	5	10	15	2.5	277-1237-ND	1.23	1.05	.91	MKDSN 1.5/3	1729021
4	5	15	20	2.5	277-1238-ND	1.64	1.41	1.21	MKDSN 1.5/4	1729034
5	5	20	25	2.5	277-1239-ND	2.05	1.76	1.51	MKDSN 1.5/5	1729047
6	5	25	30	2.5	277-1240-ND	2.46	2.11	1.82	MKDSN 1.5/6	1729050
7	5	30	35	2.5	277-1241-ND	2.86	2.45	2.11	MKDSN 1.5/7	1729063
8	5	35	40	2.5	277-1242-ND	3.28	2.81	2.42	MKDSN 1.5/8	1729076
9	5	40	45	2.5	277-1243-ND	3.69	3.16	2.72	MKDSN 1.5/9	1729089
10	5	45	50	2.5	277-1244-ND	4.10	3.51	3.02	MKDSN 1.5/10	1729092
11	5	50	55	2.5	277-1245-ND	4.53	3.88	3.34	MKDSN 1.5/11	1729102
12	5	55	60	2.5	277-1246-ND	4.93	4.22	3.63	MKDSN 1.5/12	1729115

No. of Pos.	Dimensions — mm				Digi-Key Part No.	Price Each			Phoenix Contact Type No.	Phoenix Contact Part No.
	A	B	C	D		1	10	100		
Fig. 15 — 5.08mm with Screw Connection										
2	5.08	5.08	10.16	2.54	277-1247-ND	.83	.71	.61	MKDSN 1.5/2-5.08	1729128
3	5.08	10.16	15.24	2.54	277-1248-ND	1.23	1.05	.91	MKDSN 1.5/3-5.08	1729131
4	5.08	15.24	20.32	2.54	277-1249-ND	1.64	1.41	1.21	MKDSN 1.5/4-5.08	1729144
5	5.08	20.32	25.40	2.54	277-1250-ND	2.05	1.76	1.51	MKDSN 1.5/5-5.08	1729157
6	5.08	25.40	30.48	2.54	277-1251-ND	2.46	2.11	1.82	MKDSN 1.5/6-5.08	1729160
7	5.08	30.48	35.56	2.54	277-1252-ND	2.86	2.45	2.11	MKDSN 1.5/7-5.08	1729173
8	5.08	35.56	40.64	2.54	277-1253-ND	3.28	2.81	2.42	MKDSN 1.5/8-5.08	1729186
9	5.08	40.64	45.72	2.54	277-1254-ND	3.69	3.16	2.72	MKDSN 1.5/9-5.08	1729199
10	5.08	45.72	50.80	2.54	277-1255-ND	4.10	3.51	3.02	MKDSN 1.5/10-5.08	1729209
11	5.08	50.80	55.88	2.54	277-1256-ND	4.53	3.88	3.34	MKDSN 1.5/11-5.08	1729212
12	5.08	55.88	60.96	2.54	277-1257-ND	4.93	4.22	3.63	MKDSN 1.5/12-5.08	1729225
Fig. 16 — 5.0mm with Screw Connection										
2	5	5	10	2.5	277-1258-ND	.99	.85	.73	MKDS 1.5/2	1715022
3	5	10	15	2.5	277-1259-ND	1.48	1.27	1.09	MKDS 1.5/3	1715035
4	5	15	20	2.5	277-1260-ND	1.96	1.68	1.45	MKDS 1.5/4	1715048
8	5	35	40	2.5	277-1261-ND	3.93	3.36	2.89	MKDS 1.5/8	1715080
12	5	55	60	2.5	277-1262-ND	5.89	5.04	4.34	MKDS 1.5/12	1715129
Fig. 16 — 5.08mm with Screw Connection										
2	5.08	5.08	10.16	2.54	277-1263-ND	.99	.85	.73	MKDS 1.5/2-5.08	1715721
3	5.08	10.16	15.24	2.54	277-1264-ND	1.48	1.27	1.09	MKDS 1.5/3-5.08	1715734
4	5.08	15.24	20.32	2.54	277-1265-ND	1.96	1.68	1.45	MKDS 1.5/4-5.08	1715747
8	5.08	35.56	40.64	2.54	277-1266-ND	3.93	3.36	2.89	MKDS 1.5/8-5.08	1715789
10	5.08	45.72	50.80	2.54	277-1267-ND	4.90	4.20	3.61	MKDS 1.5/10-5.08	1715802
12	5.08	55.88	60.96	2.54	277-1268-ND	5.89	5.04	4.34	MKDS 1.5/12-5.08	1715828
Fig. 17 — 5.0mm Compact with Screw Connection										
2	5	5	10	2.5	277-1667-ND	.40	.36	.29	PT 1.5/2-5.0-H	1935161
3	5	10	15	2.5	277-1578-ND	.58	.52	.42	PT 1.5/3-5.0-H	1935174
4	5	15	20	2.5	277-1579-ND	.79	.71	.58	PT 1.5/4-5.0-H	1935187
5	5	20	25	2.5	277-1580-ND	.74	.66	.55	PT 1.5/5-5.0-H	1935190
6	5	25	30	2.5	277-1581-ND	.89	.80	.66	PT 1.5/6-5.0-H	1935200
7	5	30	35	2.5	277-1582-ND	1.03	.92	.76	PT 1.5/7-5.0-H	1935213
8	5	35	40	2.5	277-1583-ND	1.19	1.06	.88	PT 1.5/8-5.0-H	1935226
9	5	40	45	2.5	277-1584-ND	1.32	1.18	.98	PT 1.5/9-5.0-H	1935239
10	5	45	50	2.5	277-1585-ND	1.49	1.32	1.10	PT 1.5/10-5.0-H	1935242
11	5	50	55	2.5	277-1586-ND	1.51	1.30	1.12	PT 1.5/11-5.0-H	1935255
12	5	55	60	2.5	277-1587-ND	1.64	1.41	1.21	PT 1.5/12-5.0-H	1935268
13	5	60	65	2.5	277-1588-ND	1.78	1.52	1.31	PT 1.5/13-5.0-H	1935271
14	5	65	70	2.5	277-1589-ND	1.93	1.65	1.42	PT 1.5/14-5.0-H	1935284
15	5	70	75	2.5	277-1590-ND	2.05	1.76	1.51	PT 1.5/15-5.0-H	1935297
16	5	75	80	2.5	277-1591-ND	2.20	1.89	1.62	PT 1.5/16-5.0-H	1935307
Fig. 18 — 5.0mm Compact with Screw Connection										
2	5	5	10	2.5	277-1592-ND	.45	.40	.33	PT 1.5/2-5.0-V	1935310
3	5	10	15	2.5	277-1593-ND	.67	.60	.49	PT 1.5/3-5.0-V	1935323
4	5	15	20	2.5	277-1594-ND	.88	.79	.64	PT 1.5/4-5.0-V	1935336
5	5	20	25	2.5	277-1595-ND	.82	.74	.61	PT 1.5/5-5.0-V	1935349
6	5	25	30	2.5	277-1596-ND	.99	.88	.73	PT 1.5/6-5.0-V	1935352
7	5	30	35	2.5	277-1597-ND	1.16	1.04	.86	PT 1.5/7-5.0-V	1935365
8	5	35	40	2.5	277-1598-ND	1.32	1.18	.98	PT 1.5/8-5.0-V	1935378
9	5	40	45	2.5	277-1599-ND	1.50	1.34	1.11	PT 1.5/9-5.0-V	1935381
10	5	45	50	2.5	277-1600-ND	1.66	1.48	1.23	PT 1.5/10-5.0-V	1935394
11	5	50	55	2.5	277-1601-ND	1.69	1.45	1.25	PT 1.5/11-5.0-V	1935404
12	5	55	60	2.5	277-1602-ND	1.85	1.59	1.37	PT 1.5/12-5.0-V	1935417
13	5	60	65	2.5	277-1603-ND	1.99	1.71	1.47	PT 1.5/13-5.0-V	1935420
14	5	65	70	2.5	277-1604-ND	2.16	1.86	1.60	PT 1.5/14-5.0-V	1935433
15	5	70	75	2.5	277-1605-ND	2.30	1.97	1.70	PT 1.5/15-5.0-V	1935446
16	5	75	80	2.5	277-1606-ND	2.46	2.11	1.82	PT 1.5/16-5.0-V	1935459
Fig. 19 — 5.0mm Compact with Screw Connection – 45°										
2	5	5	10	2.5	277-1764-ND	.40	.36	.29	PTA 1.5/2-5.0	1988804
3	5	10	15	2.5	277-1765-ND	.58	.52	.42	PTA 1.5/3-5.0	1988817
4	5	15	20	2.5	277-1766-ND	.79	.71	.58	PTA 1.5/4-5.0	1988820
5	5	20	25	2.5	277-1767-ND	.74	.66	.55	PTA 1.5/5-5.0	1988833
6	5	25	30	2.5	277-1768-ND	.89	.80	.66	PTA 1.5/6-5.0	1988846
7	5	30	35	2.5	277-1769-ND	1.03	.92	.76	PTA 1.5/7-5.0	1988859
8	5	35	40	2.5	277-1770-ND	1.19	1.06	.88	PTA 1.5/8-5.0	1988862
9	5	40	45	2.5	277-1771-ND	1.32	1.18	.98	PTA 1.5/9-5.0	1988875
10	5	45	50	2.5	277-1772-ND	1.49	1.32	1.10	PTA 1.5/10-5.0	1988888
11	5	50	55	2.5	277-1773-ND	1.51	1.30	1.12	PTA 1.5/11-5.0	1988891

(Continued)

Fig. 21

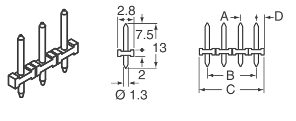

UL: 300V @ 16A **IEC:** 250V @ 12A **Color:** Black
Note: Suitable for the reflow solder process

Fig. 22

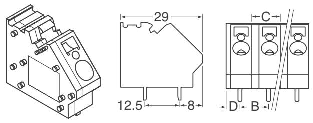

UL: 600V @ 30A, 24-10AWG
IEC: 630V @ 32A, 24-10AWG **Color:** Green

Fig. 23

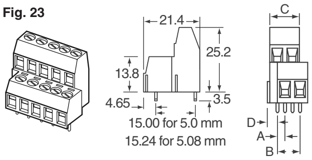

UL: 300V @ 10A, 30-14AWG
IEC: 250V @ 22A, 26-14AWG **Color:** Green

Fig. 24

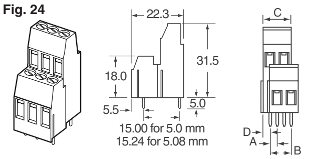

UL: 300V @ 15A, 30-12AWG
IEC: 250V @ 24A, 24-12AWG **Color:** Green

Fig. 25

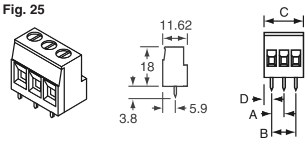

UL: 300V @ 10A, 30-12AWG
IEC: 250V @ 12A, 28-14AWG **Color:** Green

Fig. 26

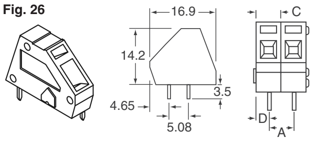

UL: 300V@ 10A, 26-12AWG
IEC: 250V @ 16A, 24-14AWG **Color:** Green

Fig. 27

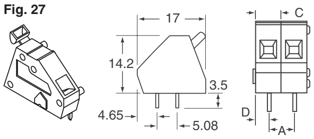

UL: 300V @ 10A, 28-12AWG
IEC: 250V @ 16A, 24-14AWG **Color:** Green

Fig. 28

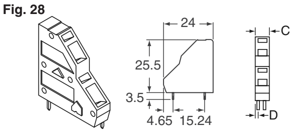

UL: 300V @ 10A, 26-12AWG
IEC: 250V @ 12A, 24-14AWG **Color:** Green

Fig. 29

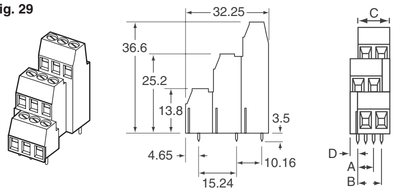

UL: 300V @ 10A, 30-14AWG **IEC:** 250V @ 17.5A, 26-14AWG **Color:** Green

Fig. 30

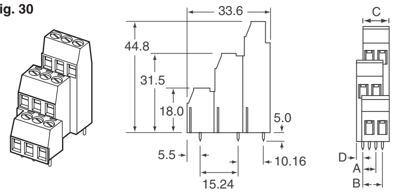

UL: 300V @ 20A, 30-12AWG **IEC:** 250V @ 24A, 24-12AWG **Color:** Green

Fig. 31

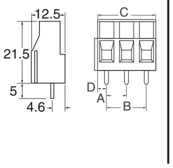

A

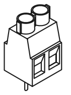

UL: 300V @ 30A, 30-10AWG
IEC: 500V @ 32A, 24-10AWG
Color: Green

B

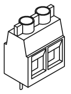

UL: 600V @ 30A, 30-10AWG
IEC: 690V @ 32A, 24-10AWG
Color: Green

Fig. 32

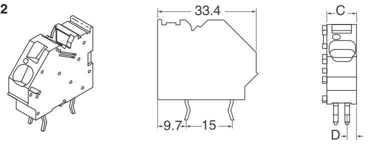

UL: 300V @ 65A, 24-6AWG **IEC:** 320V @ 57A, 24-6AWG **Color:** Green

Fig. 33

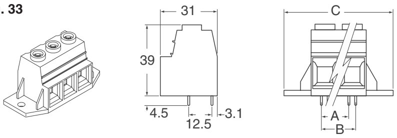

UL: 600V @ 115A, 20-2AWG **IEC:** 1000V @ 125A, 20-2AWG **Color:** Green

Fig. 34

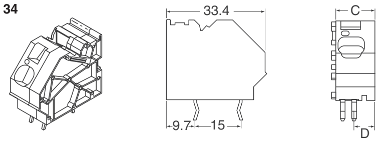

UL: 600V @ 65A,24-6AWG **IEC:** 1000V @ 57A, 24-6AWG **Color:** Green

No. of Pos.	Dimensions — mm				Digi-Key Part No.	Price Each			Phoenix Contact Type No.	Phoenix Contact Part No.
	A	B	C	D		1	10	100		
12	5	55	60	2.5	277-1774-ND	1.64	1.41	1.21	PTA 1.5/12-5.0	1988901
13	5	60	65	2.5	277-1775-ND	1.78	1.52	1.31	PTA 1.5/13-5.0	1988914
14	5	65	70	2.5	277-1776-ND	1.93	1.65	1.42	PTA 1.5/14-5.0	1988927
15	5	70	75	2.5	277-1777-ND	2.05	1.76	1.51	PTA 1.5/15-5.0	1988930
16	5	75	80	2.5	277-1778-ND	2.20	1.89	1.62	PTA 1.5/16-5.0	1988943
Fig. 20 — 5.0mm Compact Plug with Screw Connection										
2	5	5	10	2.5	277-1607-ND	.38	.34	.28	PT 1.5/2-PVH-5.0	1934861
3	5	10	15	2.5	277-1608-ND	.56	.50	.41	PT 1.5/3-PVH-5.0	1934874
4	5	15	20	2.5	277-1609-ND	.77	.69	.56	PT 1.5/4-PVH-5.0	1934887
5	5	20	25	2.5	277-1610-ND	.72	.64	.53	PT 1.5/5-PVH-5.0	1934890
6	5	25	30	2.5	277-1611-ND	.85	.76	.63	PT 1.5/6-PVH-5.0	1934900
7	5	30	35	2.5	277-1612-ND	1.00	.89	.74	PT 1.5/7-PVH-5.0	1934913
8	5	35	40	2.5	277-1613-ND	1.15	1.02	.85	PT 1.5/8-PVH-5.0	1934926
9	5	40	45	2.5	277-1614-ND	1.28	1.14	.95	PT 1.5/9-PVH-5.0	1934939
10	5	45	50	2.5	277-1615-ND	1.42	1.26	1.05	PT 1.5/10-PVH-5.0	1934942
11	5	50	55	2.5	277-1616-ND	1.45	1.25	1.07	PT 1.5/11-PVH-5.0	1934955
12	5	55	60	2.5	277-1617-ND	1.58	1.35	1.16	PT 1.5/12-PVH-5.0	1934968
13	5	60	65	2.5	277-1618-ND	1.71	1.47	1.27	PT 1.5/13-PVH-5.0	1934971
14	5	65	70	2.5	277-1619-ND	1.85	1.59	1.37	PT 1.5/14-PVH-5.0	1934984
15	5	70	75	2.5	277-1620-ND	1.99	1.71	1.47	PT 1.5/15-PVH-5.0	1934997
16	5	75	80	2.5	277-1621-ND	2.10	1.80	1.55	PT 1.5/16-PVH-5.0	1935006
Fig. 21 — 5.0mm Pin Strip										
2	5	5	10	2.5	277-1645-ND	.10	.09	.08	PST 1.3/2-5.0	1933189
3	5	10	15	2.5	277-1646-ND	.16	.14	.12	PST 1.3/3-5.0	1933192
4	5	15	20	2.5	277-1647-ND	.24	.21	.18	PST 1.3/4-5.0	1933202
5	5	20	25	2.5	277-1648-ND	.29	.25	.22	PST 1.3/5-5.0	1933215
6	5	25	30	2.5	277-1649-ND	.34	.29	.25	PST 1.3/6-5.0	1933228
7	5	30	35	2.5	277-1650-ND	.40	.35	.30	PST 1.3/7-5.0	1933231
8	5	35	40	2.5	277-1651-ND	.45	.39	.34	PST 1.3/8-5.0	1933244
9	5	40	45	2.5	277-1652-ND	.50	.43	.37	PST 1.3/9-5.0	1933257
10	5	45	50	2.5	277-1653-ND	.56	.49	.42	PST 1.3/10-5.0	1933260
11	5	50	55	2.5	277-1654-ND	.64	.55	.47	PST 1.3/11-5.0	1933273
12	5	55	60	2.5	277-1655-ND	.69	.59	.51	PST 1.3/12-5.0	1933286
13	5	60	65	2.5	277-1656-ND	.74	.64	.55	PST 1.3/13-5.0	1933299
14	5	65	70	2.5	277-1657-ND	.79	.68	.58	PST 1.3/14-5.0	1933309
15	5	70	75	2.5	277-1658-ND	.85	.73	.63	PST 1.3/15-5.0	1933312
16	5	75	80	2.5	277-1659-ND	.90	.77	.67	PST 1.3/16-5.0	1933325
Fig. 22 — 10.0mm with Spring-Cage Connection										
1	—	10	10	4.85	277-1879-ND	1.24	1.06	.92	ZFKDS 4-10	1907539
9.0mm End Block for ZFKDS 4-10					277-1880-ND	1.39	1.19	1.03	ZFKDSA 4-9	1907542
Fig. 23 — 5.0mm with Screw Connection - Double Level										
2	5	5	10	2.5	277-1367-ND	2.34	2.01	1.73	MKKDS 1.5/2	1725012
3	5	10	15	2.5	277-1368-ND	3.53	3.02	2.60	MKKDS 1.5/3	1725025
Fig. 23 — 5.08 mm with Screw Connection - Double Level										
2	5.08	5.08	10.16	2.54	277-1369-ND	2.34	2.01	1.73	MKKDS 1.5/2-5.08	1725038
3	5.08	10.16	15.24	2.54	277-1370-ND	3.53	3.02	2.60	MKKDS 1.5/3-5.08	1725041
Fig. 24 — 5.0mm with Screw Connection - Double Level										
2	5	5	10	2.5	277-1371-ND	3.89	3.33	2.87	MKKDS 3/2	1721029
3	5	10	15	2.5	277-1372-ND	5.83	4.99	4.29	MKKDS 3/3	1721032
Fig. 24 — 5.08 mm with Screw Connection - Double Level										
2	5.08	5.08	10.16	2.54	277-1373-ND	3.89	3.33	2.87	MKKDS 3/2-5.08	1721728
3	5.08	10.16	15.24	2.54	277-1374-ND	5.83	4.99	4.29	MKKDS 3/3-5.08	1721731
Fig. 25 — 5.08mm with Press-In Connection										
2	5.08	5.08	11.34	3.13	277-1284-ND	1.88	1.61	1.38	EMKDS 2.5/2-5.08	1730612
3	5.08	10.16	16.42	3.13	277-1285-ND	2.83	2.42	2.08	EMKDS 2.5/3-5.08	1730625
4	5.08	15.24	21.50	3.13	277-1286-ND	3.75	3.21	2.76	EMKDS 2.5/4-5.08	1730638
5	5.08	20.32	26.58	3.13	277-1287-ND	4.70	4.03	3.46	EMKDS 2.5/5-5.08	1730641
6	5.08	25.40	31.66	3.13	277-1288-ND	5.63	4.82	4.14	EMKDS 2.5/6-5.08	1730654
7	5.08	30.48	36.74	3.13	277-1289-ND	6.58	5.63	4.84	EMKDS 2.5/7-5.08	1730667
8	5.08	35.56	41.82	3.13	277-1290-ND	7.51	6.44	5.53	EMKDS 2.5/8-5.08	1730670
9	5.08	40.64	46.90	3.13	277-1291-ND	8.45	7.24	6.22	EMKDS 2.5/9-5.08	1730683
10	5.08	45.72	51.98	3.13	277-1292-ND	9.40	8.05	6.92	EMKDS 2.5/10-5.08	1730696
11	5.08	50.80	57.06	3.13	277-1293-ND	10.33	8.84	7.60	EMKDS 2.5/11-5.08	1730706
12	5.08	55.88	62.14	3.13	277-1294-ND	11.28	9.66	8.30	EMKDS 2.5/12-5.08	1730719
Fig. 26 — 5.08mm with Spring-Cage Connection — 45°										
1	5.08	—	5.08	2.54	277-1314-ND	.36	.31	.27	ZFKDS 1.5-5.08	1706701
7.62mm End Block for ZFKDS 1.5-5.08					277-1315-ND	.51	.44	.38	ZFKDSA1.5-7.62	1706727
Fig. 27 — 5.08mm with Spring-Cage Connection — 45°										
1	5.08	—	5.08	2.54	277-1316-ND	.45	.39	.34	ZFKDS 1.5-W-5.08	1706714
7.62mm End Block for ZFKDS 1.5-W-5.08					277-1317-ND	.59	.51	.44	ZFKDSA 1.5-W-7.62	1706730
Fig. 28 — 5.08mm with Spring-Cage Connection — Double Level										
1	—	—	5.08	1.27	277-1318-ND	.99	.85	.73	ZFKKDS 1.5-5.08	1704402
Fig. 29 — 5.08mm with Screw Connection — Triple Level										
2	5.08	5.08	10.16	2.54	277-1375-ND	6.35	5.44	4.68	MK3DS 1.5/2-5.08	1724013
3	5.08	10.16	15.24	2.54	277-1376-ND	9.54	8.17	7.02	MK3DS 1.5/3-5.08	1724026
Fig. 30 — 5.08mm with Screw Connection — Triple Level										
2	5.08	5.08	10.16	2.54	277-1377-ND	5.53	4.73	4.07	MK3DS 3/2-5.08	1723014
3	5.08	10.16	15.24	2.54	277-1378-ND	8.29	7.10	6.10	MK3DS 3/3-5.08	1723027
Fig. 31A — 6.35mm with Screw Connection										
2	6.35	6.35	12.69	3.17	277-1269-ND	1.51	1.30	1.12	MKDS 5/2-6.35	1714955
3	6.35	12.70	19.04	3.17	277-1270-ND	2.10	1.80	1.55	MKDS 5/3-6.35	1714968
Fig. 31B — 9.52mm with Screw Connection										
2	9.52	9.52	19.02	4.76	277-1271-ND	1.51	1.30	1.12	MKDS 5/2-9.5	1714971
3	9.52	19.04	28.52	4.76	277-1272-ND	2.24	1.92	1.65	MKDS 5/3-9.5	1714984
Fig. 32 — 10.0mm with Spring-Cage Connection										
1	—	—	10	3.1	277-1825-ND	1.58	1.35	1.16	ZFKDS 10-10.00	1986628
11.7mm End Block for ZFKDS 10-10.00					277-1826-ND	1.93	1.65	1.42	ZFKDSA 10-11.7	1987054
Fig. 33 — 15.0mm with Screw Connection										
2	15	18.8	60	—	277-1817-ND	9.91	8.49	7.30	MKDSP 25/2-15.00-F	1932494
3	15	33.8	75	—	277-1818-ND	14.86	12.73	10.94	MKDSP 25/3-15.00-F	1932504
4	15	48.8	90	—	277-1819-ND	19.83	16.97	14.60	MKDSP 25/4-15.00-F	1932517
5	15	63.8	105	—	277-1820-ND	24.78	21.21	18.24	MKDSP 25/5-15.00-F	1932520
6	15	78.8	120	—	277-1821-ND	29.73	25.45	21.88	MKDSP 25/6-15.00-F	1932533
7	15	93.8	135	—	277-1822-ND	34.69	29.70	25.53	MKDSP 25/7-15.00-F	1932546
8	15	108.8	150	—	277-1823-ND	39.64	33.93	29.18	MKDSP 25/8-15.00-F	1932559
9	15	123.8	165	—	277-1824-ND	41.03	35.68	30.33	MKDSP 25/9-15.00-F	1932562
Fig. 34 — 15.0mm with Spring Cage Connection										
1	—	—	15	8.1	277-1827-ND	1.63	1.40	1.20	ZFKDS 10-15.00	1986631
16.7mm End Block for ZFKDS 10-15.00					277-1828-ND	1.99	1.71	1.47	ZFKDSA 10-16.7	1987067

HIROSE ELECTRIC CO.,LTD. HR31 Series Connectors

Fig. 1

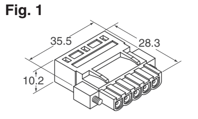

Fig. 2

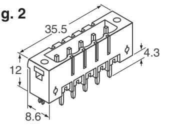

Fig. 3

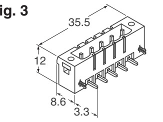

Features: • Crimped and connected to terminal then fastened simply by inserting into housing • High density mounting • Prevention of connection errors • No need for screws, built-in locking pin secures connector to the board
Applications: Power units and communications units for factory automation related devices
Product Specifications: • Current Rating: 12A (2.5mm^2 wire); 10A (1.5mm^2 wire) • Voltage Rating: 250 VAC, 350 VDC • Operating Temperature Range: -40°C ~ 100°C • Storage Temperature Range: -40°C ~ 85°C (for a multi-strand conductor)
Materials: • **Plug:** Insulator: PBT, Black finish, UL 94V-0; Screw: Steel, Zinc plating • **Header:** Insulator: PBT, Black finish, UL 94V-0; Nut: Steel, Zinc plating; Board Retention Pin: Phosphor bronze, Tin plating

Fig.	Wire Size (Awg)	Contact Plating	Contact Size (mm^2)	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
1	—	—	—	H4110-ND	3.22	61.88	198.00	HR31-5.08P-5SC
				H11442-ND◆	3.19	61.88	198.00	HR31-5.08P-5SC(71)
2	—	Tin	—	H4111-ND	4.41	85.50	273.60	HR31-5.08R-5PD
		Gold		H11443-ND◆	5.48	106.31	340.20	HR31-5.08R-5PD(72)
3	—	Gold	—	H4114-ND	5.28	102.38	327.60	HR31-5.08R-5PDL(01)
		Gold		H11444-ND◆	5.48	106.31	340.20	HR31-5.08R-5PDL(72)
Crimp Contacts								
—	14 ~ 16	Tin	1.04 ~ 2.63	H4116-ND	1.04	18.77	61.43	HR31-SC-113
	14 ~ 16	Gold	1.04 ~ 2.63	H4115-ND	1.40	25.30	82.80	HR31-SC-111
	14 ~ 16	Gold	1.04 ~ 2.63	H11445-ND◆	1.38	24.96	81.68	HR31-SC-111(71)
	18 ~ 24	Tin	0.2 ~ 1.65	H4118-ND	1.41	25.58	83.70	HR31-SC-123
	18 ~ 24	Gold	0.2 ~ 1.65	H4117-ND	1.40	25.30	82.80	HR31-SC-121
	18 ~ 24	Gold	0.2 ~ 1.65	H11446-ND◆	1.38	24.96	81.68	HR31-SC-121(71)
Contact Extraction Tool..............				H9916-ND	6.32	—	—	HR31-SC-TP
Crimp Tool				H9917-ND	106.40	—	—	HR31-TC-01

◆ ***RoHS Compliant***

GC ELECTRONICS Spring Push Terminals

These terminals have spring loaded posts for easy connection with Red and Black color codes. Designed for various audio applications such as surround sound and speaker connections, amplifiers and more. Maximum allowed wire size 14 AWG.

2-Pos.

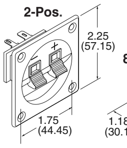

8-Pos.

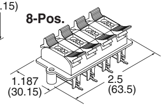

GC399-ND◆	2 Positions for panel mounting to speakers, mounts in 2” (50.80mm) hole....................	**$1.60**
GC400-ND	4 Positions for mounting, directly to chassis or panels	**$1.84**
GC401-ND◆	8 Positions with right angle PCB terminals, with Mounting Ears...............................	**$2.79**

◆ ***RoHS Compliant***

Tyco Electronics AMP FLEXI-BLOCK® Terminal Block System

Authorized Distributor

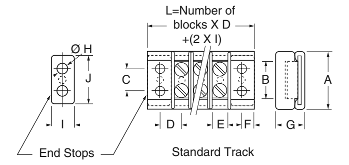

Accessories

Jumper Tab

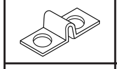

90° Tab

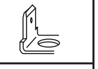

45° Tab

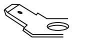

Flat Tab

Snip It!

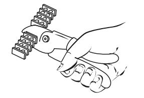

Slide It!

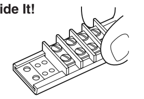

Snap It!

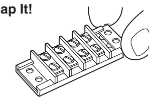

Product Specifications: • Blocks and End Stops: Nylon • Track: NORYL EN 265 • FASTON Tab and Jumper Tab: Tin plated brass • Screws: Nickel plated brass **Ratings:** • 6000 Breakdown voltage, rms line-to-line • 6000 Breakdown voltage, rms line-to-ground • Operating Temperature: 105°C Maximum

Max. Size	Max. Amps	Volts	Wire Range	Dimensions – Inch A	B	C	D	E	F	G	H	I	J
6	15	300	22-14	1.125	.750	.422	.375	.343	.219	.563	.171	.437	.96
8	30	600	22-10	1.312	.875	.500	.375	.437	.281	.656	.203	.557	1.15

Size	Description	Digi-Key Part No.	Pricing 1	10	AMP Part No.
6	#6 Block Assembly, 100 pcs/pkg	A0130-ND◆	64.00/pkg	—	1-604102-1
8	#8 Block Assembly, 100 pcs/pkg	A0131-ND◆	90.00/pkg	—	1-604152-1
6	Track 36” long, 80 positions	A0132-ND◆	6.53	58.73	1-601805-1
8	Track 36” long, 60 positions	A0133-ND◆	7.40	63.64	1-601806-1
6	End Stop, 2 required per assembly	A0134-ND◆	—	1.32	604111-1
8	End Stop, 2 required per assembly	A0135-ND◆	—	1.55	604161-1
6, 8	Flat Tab	A0136-ND	—	12.36	601989-1
6, 8	45° Tab	A0137-ND◆	—	10.78	601989-2
6, 8	90° Tab	A0138-ND	—	7.34	601989-3
6	Jumper Tab	A0139-ND◆	—	2.26	601985-2
8	Jumper Tab	A0140-ND◆	—	3.20	604591-1
6	#6 Terminal Block Kit	A0150-ND◆§	91.23	821.03	601804-8
8	#8 Terminal Block Kit	A0151-ND◆†	121.30	1091.70	604336-1

◆ ***RoHS Compliant*** § Kit contains 100-block assembly, 25 end stops and 2 tracks. † Kit contains 100-block assembly, 50 end stops and 8 tracks.

Tyco Electronics NEW! Barrier Blocks

Authorized Distributor

Dual Barrier Features **Material:** • Housing: Fig. 1A and 1B: Polyamide, UL 94V-0, Black; Fig. 1C: Nylon, UL 94V-0, Black • Terminals: Copper Alloy, Tin plated • Screws: Steel, Zinc plated **Electrical:** • Current Rating: Fig. 1A: 20A, UL/CSA; Fig. 1B: UL/CSA – Class B: 25A, 300V, Class C: 20A, 150V; Fig. 1C: 30A, 600V, UL/CSA **Mechanical:** • Wire Range: Fig. 1A and 1B: 12-22 AWG; Fig. 1C: 10-18 AWG (UL), 10-22 AWG (CSA) •Tightening Torque (max.): Fig. 1A and 1B: 7 in-lbs; Fig. 1C: 20 in-lbs • Operating Temperature: Fig. 1A: -40°C ~ 105°C; Fig. 1B: 105°C max.; Fig. 1C: -40°C ~ 120°C
Double Row Dual Barrier Features **Material:** • Housing: Thermoplastic, PC, UL 94V-0, Black • Terminals: Brass, Tin plated • Screws: Steel, Nickel plated **Electrical:** • Current Rating (max.): 9.50mm Pin Spacing: 20A, 300V; 11.10 Pin Spacing: 25A, 300V **Mechanical:** • Wire Range: 9.50mm Pin Spacing: 12-22 AWG; 11.10 Pin Spacing: 14-22 AWG • Tightening Torque (Recommended): 12 in-lbs • Operating Temperature: -40°C ~ 120°C
Tri-Barrier Features **Material:** • Housing: Thermoplastic, UL 94V-0, Black • Terminals: Bright Tin Plated, Copper Alloy • Screws Steel, Zinc Plated with clear Chromate **Electrical:** • Current Rating: UL/CSA; Class C: 25A, 300V; Class D: 5A, 600 **Mechanical:** • Wire Range: 12-22 AWG • Tightening Torque (Recommended): 7 in-lbs • Operating Temperature: 105°C max.

Fig. 1

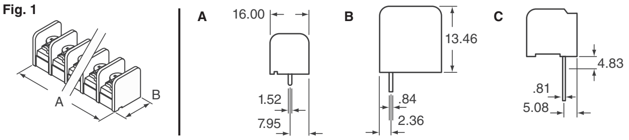

Fig. 2

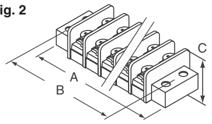

Fig. 3

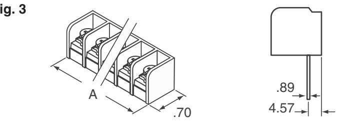

Fig.	Dimensions – mm A	B	C	No. of Pins	Pin Spacing (mm)	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
Dual Barrier										
1A	20.60	16.00	—	2	9.53	A98495-ND	.68	.61	.54	3-1437664-0
	30.12	16.00	—	3	9.53	A98496-ND	1.03	.93	.82	3-1437664-1
	39.65	16.00	—	4	9.53	A98497-ND	1.33	1.20	1.06	3-1437664-3
	49.17	16.00	—	5	9.53	A98498-ND	1.65	1.49	1.32	3-1437664-5
	58.70	16.00	—	6	9.53	A98499-ND	1.58	1.42	1.26	3-1437664-8
	68.22	16.00	—	7	9.53	A98525-ND	1.83	1.65	1.46	4-1437664-0
	77.75	16.00	—	8	9.53	A98500-ND	2.13	1.92	1.70	4-1437664-1
	96.80	16.00	—	10	9.53	A98501-ND	2.63	2.37	2.10	4-1437664-4
	115.85	16.00	—	12	9.53	A98502-ND	3.10	2.79	2.48	4-1437664-7
	153.95	16.00	—	16	9.53	A98467-ND	4.18	3.76	3.34	5-1437664-1
1B	18.16	12.7	—	2	8.26	A98472-ND	.53	.48	.43	2-1437667-4
	26.42	12.7	—	3	8.26	A98473-ND	.79	.72	.64	2-1437667-5
	34.67	12.7	—	4	8.26	A98474-ND	1.06	.96	.85	2-1437667-6
	42.93	12.7	—	5	8.26	A98475-ND	1.32	1.20	1.06	2-1437667-8
	51.18	12.7	—	6	8.26	A98476-ND	1.27	1.15	1.02	2-1437667-9
	59.44	12.7	—	7	8.26	A98477-ND	1.50	1.35	1.20	3-1437667-0
	67.69	12.7	—	8	8.26	A98478-ND	1.68	1.51	1.34	3-1437667-1
	84.20	12.7	—	10	8.26	A98479-ND	2.13	1.92	1.70	3-1437667-3
	100.71	12.7	—	12	8.26	A98480-ND	2.55	2.30	2.04	3-1437667-6
1C	24.05	20.32	—	2	11.13	A98460-ND	.93	.84	.74	5-1437657-7
	35.18	20.32	—	3	11.13	A98461-ND	1.23	1.11	.98	6-1437657-9
	46.28	20.32	—	4	11.13	A98462-ND	1.65	1.49	1.32	8-1437657-0
	57.40	20.32	—	5	11.13	A98463-ND	2.08	1.87	1.66	8-1437657-8
	68.50	20.32	—	6	11.13	A98464-ND	2.48	2.23	1.98	9-1437657-8
	79.63	20.32	—	7	11.13	A98493-ND	2.90	2.61	2.32	1-1437658-1
	90.75	20.32	—	8	11.13	A98465-ND	3.25	2.93	2.60	2-1437658-1
	112.98	20.32	—	10	11.13	A98466-ND	4.08	3.67	3.26	3-1437658-3
	135.20	20.32	—	12	11.13	A98494-ND	4.93	4.44	3.94	4-1437658-5
Double Row Dual Barrier										
2	36.2	28.7	13.0	2	9.50	A98503-ND§	.68	.61	.54	1546306-2
	41.2	33.3	14.0	2	11.10	A98514-ND†	.83	.75	.66	1546670-2
	45.7	38.2	13.0	3	9.50	A98504-ND§	.93	.84	.74	1546306-3
	52.3	44.4	14.0	3	11.10	A98515-ND†	.95	.86	.76	1546670-3
	55.2	47.7	13.0	4	9.50	A98505-ND§	1.15	1.04	.92	1546306-4
	63.4	55.5	14.0	4	11.10	A98516-ND†	1.25	1.13	1.00	1546670-4
	64.7	57.2	13.0	5	9.50	A98506-ND§	1.25	1.13	1.00	1546306-5
	74.5	66.6	14.0	5	11.10	A98517-ND†	1.55	1.40	1.24	1546670-5
	74.2	66.7	13.0	6	9.50	A98507-ND§	1.45	1.31	1.16	1546306-6
	85.6	77.7	14.0	6	11.10	A98518-ND†	1.85	1.67	1.48	1546670-6
	83.7	76.2	13.0	7	9.50	A98508-ND§	1.80	1.62	1.44	1546306-7
	96.7	88.8	14.0	7	11.10	A98519-ND†	2.18	1.96	1.74	1546670-7
	93.2	85.7	13.0	8	9.50	A98509-ND§	2.00	1.80	1.60	1546306-8
	107.8	99.9	14.0	8	11.10	A98520-ND†	2.50	2.25	2.00	1546670-8
	130.0	122.1	14.0	10	11.10	A98521-ND†	3.10	2.79	2.48	1-1546670-0
	131.2	123.7	13.0	12	9.50	A98510-ND§	3.03	2.73	2.42	1-1546306-2
	152.2	144.3	14.0	12	11.10	A98522-ND†	3.75	3.38	3.00	1-1546670-2
	150.2	142.7	13.0	14	9.50	A98511-ND§	3.50	3.15	2.80	1-1546306-4
	174.4	166.5	14.0	14	11.10	A98523-ND†	4.33	3.90	3.46	1-1546670-4
	159.7	152.2	13.0	15	9.50	A98468-ND§	3.78	3.40	3.02	1-1546306-5
	185.5	177.6	14.0	15	11.10	A98470-ND†	4.60	4.14	3.68	1-1546670-5
	169.2	161.7	13.0	16	9.50	A98512-ND§	4.05	3.65	3.24	1-1546306-6
	196.6	188.7	14.0	16	11.10	A98524-ND†	5.00	4.50	4.00	1-1546670-6
	188.2	180.7	13.0	18	9.50	A98513-ND§	4.53	4.08	3.62	1-1546306-8
	218.8	210.9	14.0	18	11.10	A98471-ND†	5.55	5.00	4.44	1-1546670-8
	302.2	294.7	13.0	30	9.50	A98469-ND§	7.45	6.71	5.96	3-1546306-0
Tri-Barrier										
3	20.60	—	—	2	9.53	A98481-ND	.85	.77	.68	3-1437652-9
	30.12	—	—	3	9.53	A98482-ND	1.20	1.08	.96	5-1437652-4
	39.65	—	—	4	9.53	A98483-ND	1.55	1.40	1.24	6-1437652-7
	49.17	—	—	5	9.53	A98484-ND	1.63	1.47	1.30	8-1437652-2
	58.70	—	—	6	9.53	A98485-ND	1.93	1.74	1.54	9-1437652-5
	68.22	—	—	7	9.53	A98459-ND	2.18	1.96	1.74	1437653-7
	77.75	—	—	8	9.53	A98486-ND	2.58	2.32	2.06	1-1437653-3
	87.27	—	—	9	9.53	A98487-ND	2.88	2.59	2.30	2-1437653-5
	96.80	—	—	10	9.53	A98488-ND	3.20	2.88	2.56	3-1437653-5
	115.85	—	—	12	9.53	A98489-ND	3.70	3.33	2.96	5-1437653-1
	134.90	—	—	14	9.53	A98490-ND	4.30	3.87	3.44	6-1437653-8
	144.42	—	—	15	9.53	A98491-ND	4.63	4.17	3.70	7-1437653-4
	153.95	—	—	16	9.53	A98492-ND	5.08	4.57	4.06	8-1437653-0

† With binding HD screw § Without washer

NEW! Terminal Blocks – One Piece Connectors

Board Mount – Side Wire Entry (Vertical)

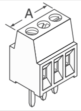

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
2.54mm Centerline, 10.0mm Profile										
2	5.54	150	10	16 ~ 30	Green	A98333-ND	.58	.52	.46	282834-2
3	8.08					A98334-ND	.88	.79	.70	282834-3
4	10.62					A98335-ND	1.15	1.04	.92	282834-4
5	13.16					A98336-ND	1.45	1.31	1.16	282834-5
6	15.70					A98337-ND	1.73	1.56	1.38	282834-6
8	20.78	150	10	16 ~ 30	Green	A98338-ND	2.35	2.12	1.88	282834-8
10	25.86					A98074-ND	2.90	2.61	2.32	1-282834-0
12	30.94					A98075-ND	3.48	3.13	2.78	1-282834-2
3.5mm Centerline, 12.6mm Profile — With Interlock										
2	7.0	300	12	14 ~ 30	Green	A98159-ND	.50	.45	.40	284391-2
3	10.5					A98160-ND	.78	.70	.62	284391-3
4	14.0					A98161-ND	1.00	.90	.80	284391-4
5	17.5					A98372-ND	1.25	1.13	1.00	284391-5
6	21.0					A98162-ND	1.48	1.33	1.18	284391-6
8	28.0	300	12	14 ~ 30	Green	A98163-ND	2.00	1.80	1.60	284391-8
10	35.0					A98164-ND	2.48	2.23	1.98	1-284391-0
12	42.0					A98165-ND	2.98	2.68	2.38	1-284391-2
3.5mm Centerline, 8.5mm Profile, High Temperature — Without Interlock										
2	7.0	300	12	16 ~ 28	Black	A97973-ND	.50	.45	.40	1776112-2
3	10.5					A97974-ND	.82	.75	.66	1776112-3
4	14.0					A97975-ND	1.00	.90	.80	1776112-4
3.81mm Centerline, 12.6mm Profile — With Interlock										
2	7.62	300	12	14 ~ 30	Green	A98166-ND	.50	.45	.40	284392-2
3	11.43					A98167-ND	.78	.70	.62	284392-3
4	15.24					A98168-ND	1.00	.90	.80	284392-4
5	19.05					A98169-ND	1.25	1.13	1.00	284392-5
6	22.86					A98373-ND	1.48	1.33	1.18	284392-6
8	30.48	300	12	14 ~ 30	Green	A98170-ND	2.00	1.80	1.60	284392-8
10	38.10					A98171-ND	2.48	2.23	1.98	1-284392-0
12	45.72					A98172-ND	2.98	2.68	2.38	1-284392-2
3.81mm Centerline, 8.5mm Profile, High Temperature — Without Interlock										
2	7.62	150	12	16 ~ 28	Black	A97976-ND	.68	.61	.54	1776113-2
3	11.43					A97977-ND	1.03	.93	.82	1776113-3
4	15.24					A97978-ND	1.35	1.22	1.08	1776113-4
5	19.05					A97979-ND	1.70	1.53	1.36	1776113-5
6	22.86					A97980-ND	2.03	1.83	1.62	1776113-6
8	30.48	150	12	16 ~ 28	Black	A97981-ND	2.15	1.94	1.72	1776113-8
10	38.10					A97982-ND	3.38	3.04	2.70	1-1776113-0
12	45.72					A97983-ND	4.05	3.65	3.24	1-1776113-2
5.0mm Centerline, 10.0mm Low Profile — With Interlock										
2	10.0	300	10	16 ~ 30	Green	A98076-ND	.35	.32	.28	282836-2
3	15.0					A98077-ND	.53	.48	.42	282836-3
4	20.0					A98078-ND	.73	.66	.58	282836-4
5	25.0					A98079-ND	.88	.79	.70	282836-5
6	30.0					A98339-ND	1.05	.95	.84	282836-6
8	40.0	300	10	16 ~ 30	Green	A98080-ND	1.40	1.26	1.12	282836-8
10	50.0					A98340-ND	1.75	1.58	1.40	1-282836-0
12	60.0					A98341-ND	2.10	1.89	1.68	1-282836-2
5.0mm Centerline, 19.0mm Profile — With Interlock										
2	10.0	300	20	12 ~ 30	Green	A98355-ND	.58	.52	.46	282856-2
3	15.0					A98356-ND	.83	.75	.66	282856-3
4	20.0					A98357-ND	1.10	.99	.88	282856-4
5	25.0					A98358-ND	1.40	1.26	1.12	282856-5
6	30.0					A98105-ND	1.65	1.49	1.32	282856-6
8	40.0	300	20	12 ~ 30	Green	A98106-ND	2.25	2.03	1.80	282856-8
10	50.0					A98107-ND	2.73	2.46	2.18	1-282856-0
12	60.0					A98108-ND	3.33	3.00	2.66	1-282856-2
5.08mm Centerline, 10.0mm Low Profile, High Temperature — With Interlock										
2	10.16	300	10	16 ~ 30	Black	A97984-ND	.60	.54	.48	1776119-2
3	15.24					A97985-ND	.65	.59	.52	1776119-3
4	20.32					A97986-ND	.83	.76	.67	1776119-4
5	25.40					A97987-ND	1.05	.95	.84	1776119-5
6	30.48					A97988-ND	1.25	1.13	1.01	1776119-6
8	40.64					A97989-ND	1.68	1.51	1.34	1776119-8
5.08mm Centerline, 15.2mm Profile — With Interlock										
2	10.16	300	15	12 ~ 30	Green	A98342-ND	.50	.45	.40	282841-2
3	15.24					A98343-ND	.75	.68	.60	282841-3
4	20.32					A98081-ND	.98	.88	.78	282841-4
5	25.40					A98082-ND	1.20	1.08	.96	282841-5
6	30.48					A98344-ND	1.45	1.31	1.16	282841-6
8	40.64	300	15	12 ~ 30	Green	A98345-ND	1.93	1.74	1.54	282841-8
10	50.80					A98083-ND	2.40	2.16	1.92	1-282841-0
12	60.96					A98346-ND	2.88	2.59	2.30	1-282841-2
5.08mm Centerline, 19.0mm Profile — With Interlock										
2	10.16	300	20	12 ~ 30	Green	A98359-ND	.75	.68	.60	282857-2
3	15.24					A98360-ND	.83	.75	.66	282857-3
4	20.32					A98361-ND	1.10	.99	.88	282857-4
5	25.40					A98109-ND	1.40	1.26	1.12	282857-5
6	30.48					A98110-ND	1.65	1.49	1.32	282857-6
8	40.64	300	20	12 ~ 30	Green	A98362-ND	2.25	2.03	1.80	282857-8
10	50.80					A98111-ND	2.73	2.46	2.18	1-282857-0
12	60.96					A98112-ND	3.33	3.00	2.66	1-282857-2
7.5mm Centerline, 15.2mm Profile — With Interlock										
2	15.0	300	15	12 ~ 30	Green	A98092-ND	.53	.48	.42	282844-2
3	22.5					A98093-ND	.80	.72	.64	282844-3
4	30.0					A98094-ND	1.05	.95	.84	282844-4
7.62mm Centerline, 15.2mm Profile — With Interlock										
2	15.24	300	15	12 ~ 30	Green	A98347-ND	.53	.48	.42	282845-2
3	22.86					A98095-ND	.80	.72	.64	282845-3

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
10.0mm Centerline, 19.0mm Profile — With Interlock										
2	15.0	600	20	12 ~ 30	Green	A98113-ND	.68	.61	.54	282858-2
3	25.0					A98114-ND	.98	.88	.78	282858-3
4	35.0					A98115-ND	1.25	1.13	1.00	282858-4
5	45.0					A98363-ND	1.60	1.44	1.28	282858-5
6	55.0					A98116-ND	1.93	1.74	1.54	282858-6
8	75.0	600	20	12 ~ 30	Green	A98117-ND	2.53	2.28	2.02	282858-8
10	95.0					A98118-ND	3.20	2.88	2.56	1-282858-0
12	115.0					A98119-ND	3.80	3.42	3.04	1-282858-2
10.16mm Centerline, 15.2mm Profile — With Interlock										
2	15.24	600	15	12 ~ 30	Green	A98084-ND	.58	.52	.46	282843-2
3	25.40					A98085-ND	.83	.75	.66	282843-3
4	35.56					A98086-ND	1.10	.99	.88	282843-4
5	45.72					A98087-ND	1.40	1.26	1.12	282843-5
6	55.88					A98088-ND	1.65	1.49	1.32	282843-6
8	76.20	600	15	12 ~ 30	Green	A98089-ND	2.25	2.03	1.80	282843-8
10	96.52					A98090-ND	2.73	2.46	2.18	1-282843-0
12	116.84					A98091-ND	3.33	3.00	2.66	1-282843-2

Board Mount – Multi-Level Stacking (1st and 2nd Level)

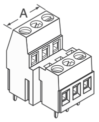

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
5.0mm Centerline, 25.2mm Profile — With Interlock										
2	10.0	300	15	12 ~ 30	Green	A98120-ND	1.48	1.33	1.18	282888-2
3	15.0					A98121-ND	2.23	2.01	1.78	282888-3
5.08mm Centerline, 25.2mm Profile — With Interlock										
2	10.16	300	15	12 ~ 30	Green	A98450-ND	1.48	1.33	1.18	796692-2
3	15.24					A98266-ND	2.23	2.01	1.78	796692-3
4	20.32					A98267-ND	2.98	2.68	2.38	796692-4
5	25.40					A98268-ND	3.73	3.36	2.98	796692-5
6	30.48					A98269-ND	4.48	4.03	3.58	796692-6
8	40.64	300	15	12 ~ 30	Green	A98270-ND	5.98	5.38	4.78	796692-8
10	50.80					A98271-ND	7.43	6.69	5.94	1-796692-0
12	60.96					A98272-ND	8.93	8.04	7.14	1-796692-2

Board Mount – Top Wire Entry (Right Angle)

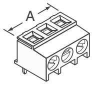

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
5.0mm Centerline, 8.2mm Profile — With Interlock										
2	10.0	300	10	16 ~ 30	Green	A98369-ND	.35	.32	.28	284093-2
3	15.0					A98154-ND	.58	.52	.46	284093-3
4	20.0					A98370-ND	.78	.70	.62	284093-4
5	25.0					A98155-ND	.98	.88	.78	284093-5
6	30.0					A98371-ND	1.13	1.02	.90	284093-6
8	40.0	300	10	16 ~ 30	Green	A98156-ND	1.50	1.35	1.20	284093-8
10	50.0					A98157-ND	1.90	1.71	1.52	1-284093-0
12	60.0					A98158-ND	2.30	2.07	1.84	1-284093-2
5.08mm Centerline, 9.0mm Profile — With Interlock										
2	10.16	300	15	12 ~ 30	Green	A98352-ND	.50	.45	.40	282851-2
3	15.24					A98353-ND	.78	.70	.62	282851-3
4	20.32					A98100-ND	1.03	.93	.82	282851-4
5	25.40					A98101-ND	1.25	1.13	1.00	282851-5
6	30.48					A98102-ND	1.48	1.33	1.18	282851-6
8	40.64	300	15	12 ~ 30	Green	A98354-ND	2.03	1.83	1.62	282851-8
10	50.80					A98103-ND	2.50	2.25	2.00	1-282851-0
12	60.96					A98104-ND	3.05	2.75	2.44	1-282851-2

Board Mount – Wire Entry 35° Angle

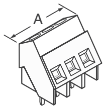

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
5.0mm Centerline, 15.0mm Profile — With Interlock										
2	10.0	300	15	12 ~ 30	Black	A98442-ND	.58	.52	.46	796689-2
3	15.0					A98252-ND	.85	.77	.68	796689-3
4	20.0					A98255-ND	1.13	1.02	.90	796689-4
5	25.0					A98443-ND	1.43	1.29	1.14	796689-5
6	30.0					A98258-ND	1.70	1.53	1.36	796689-6
8	40.0	300	15	12 ~ 30	Black	A98259-ND	2.30	2.07	1.84	796689-8
10	50.0					A98444-ND	2.83	2.55	2.26	1-796689-0
12	60.0					A98262-ND	3.40	3.06	2.72	1-796689-2
2	10.0	300	15	12 ~ 30	Green	A98445-ND	.58	.52	.46	796690-2
3	15.0					A98446-ND	.85	.77	.68	796690-3
4	20.0					A98447-ND	1.13	1.02	.90	796690-4
5	25.0					A98263-ND	1.43	1.29	1.14	796690-5
6	30.0					A98448-ND	1.70	1.53	1.36	796690-6
8	40.0	300	15	12 ~ 30	Green	A98264-ND	2.30	2.07	1.84	796690-8
10	50.0					A98265-ND	2.83	2.55	2.26	1-796690-0
12	60.0					A98449-ND	3.40	3.06	2.72	1-796690-2

(Continued)

NEW! Terminal Blocks – One Piece Connectors *(Cont.)*

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
5.08mm Centerline, 15.0mm Profile — With Interlock										
2	10.16	300	15	12 ~ 30	Green	A98348-ND	.58	.52	.46	282847-2
3	15.24					A98349-ND	.85	.77	.68	282847-3
4	20.32					A98350-ND	1.13	1.02	.90	282847-4
5	25.40					A98351-ND	1.43	1.29	1.14	282847-5
6	30.48					A98096-ND	1.70	1.53	1.36	282847-6
8	40.64	300	15	12 ~ 30	Green	A98097-ND	2.30	2.07	1.84	282847-8
10	50.80					A98098-ND	2.83	2.55	2.26	1-282847-0
12	60.96					A98099-ND	3.40	3.06	2.72	1-282847-2

High Current PCB Mount – Side Wire Entry

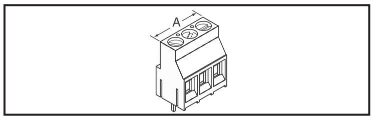

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
6.35mm Centerline, 21.5mm Profile — With Interlock										
2	12.70	300	30	10 ~ 24	Green	A98275-ND	1.03	.93	.82	796740-2
3	19.05					A98276-ND	1.43	1.29	1.14	796740-3
9.52mm Centerline, 21.5mm Profile — With Interlock										
2	19.04	600	30	10 ~ 24	Green	A98273-ND	1.15	1.04	.92	796739-2
3	28.56					A98274-ND	1.75	1.58	1.40	796739-3
10.16mm Centerline, 29.50mm Profile — With Interlock										
2	20.32	300	52	6 ~ 8	Green	A98060-ND	2.15	1.94	1.72	1776886-2
3	30.48					A98061-ND	3.20	2.88	2.56	1776886-3

Wire Protector Version – Side Wire Entry

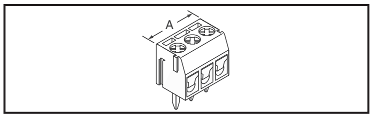

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
3.5mm Centerline, 8.3mm Profile, PCB Mount — With Interlock										
2	7.00	250	7	18 ~ 26	Blue	A98036-ND	.25	.23	.20	1776275-2
3	10.50					A98037-ND	.35	.32	.28	1776275-3
4	14.00					A98038-ND	.50	.45	.40	1776275-4
5	17.50					A98039-ND	.63	.57	.50	1776275-5
6	21.00					A98040-ND	.78	.70	.62	1776275-6
8	28.00	250	7	18 ~ 26	Blue	A98041-ND	1.13	1.02	.90	1776275-8
10	35.00					A98042-ND	1.25	1.13	1.00	1-1776275-0
12	42.00					A98043-ND	1.48	1.33	1.18	1-1776275-2
5.0mm Centerline, 10.0mm Profile, PCB Mount — With Interlock										
2	10.00	250	10	14 ~ 22	Blue	A97996-ND	.28	.25	.22	1776244-2
3	15.00					A97997-ND	.50	.45	.40	1776244-3
4	20.00					A97998-ND	.60	.54	.48	1776244-4
5	25.00					A97999-ND	.80	.72	.64	1776244-5
6	30.00					A98000-ND	.95	.86	.76	1776244-6
8	40.00	250	10	14 ~ 22	Blue	A98001-ND	1.25	1.13	1.00	1776244-8
10	50.00					A98002-ND	1.55	1.40	1.24	1-1776244-0
12	60.00					A98003-ND	1.90	1.71	1.52	1-1776244-2

Wire Protector Version – Wire Entry 45° Angle

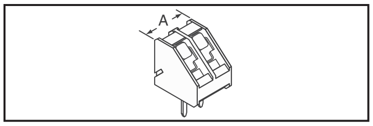

No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
5.0mm Centerline, 12.0mm Profile — With Interlock										
2	10.00	250	10	14 ~ 22	Blue	A98004-ND	.55	.50	.44	1776252-2
3	15.00					A98005-ND	.60	.54	.48	1776252-3
4	20.00					A98006-ND	1.08	.97	.86	1776252-4
5	25.00					A98007-ND	1.35	1.22	1.08	1776252-5
6	30.00					A98008-ND	1.63	1.47	1.30	1776252-6
8	40.00	250	10	14 ~ 22	Blue	A98009-ND	2.13	1.92	1.70	1776252-8
10	50.00					A98010-ND	2.70	2.43	2.16	1-1776252-0
12	60.00					A98011-ND	3.20	2.88	2.56	1-1776252-2

Screwless Connectors

Fig. 1

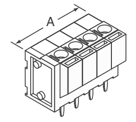

Fig. 2

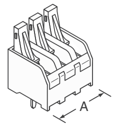

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
Board Mount, 5.0mm Centerline, 13.9mm Profile, Top Wire Entry — Spring											
1	2	12.50	300	10	14 ~ 22	Green	A98012-ND	.85	.77	.68	1776259-2
	3	17.50					A98013-ND	1.25	1.13	1.00	1776259-3
	4	22.50					A98014-ND	1.68	1.51	1.34	1776259-4
	5	27.50					A98015-ND	2.15	1.94	1.72	1776259-5
	6	32.50					A98016-ND	2.53	2.28	2.02	1776259-6
	8	42.50	300	10	14 ~ 22	Green	A98017-ND	3.40	3.06	2.72	1776259-8
	10	52.20					A98018-ND	4.75	4.28	3.80	1-1776259-0
	12	62.50					A98019-ND	5.75	5.18	4.60	1-1776259-2
Board Mount, 5.08mm Centerline, 13.9mm Profile, Top Wire Entry — Spring											
1	2	12.66	300	10	14 ~ 22	Green	A98020-ND	.85	.77	.68	1776260-2
	3	17.74					A98021-ND	1.25	1.13	1.00	1776260-3
	4	22.82					A98022-ND	1.68	1.51	1.34	1776260-4
	5	27.90					A98023-ND	2.15	1.94	1.72	1776260-5
	6	32.98					A98024-ND	2.53	2.28	2.02	1776260-6
	8	43.14	300	10	14 ~ 22	Green	A98025-ND	3.40	3.06	2.72	1776260-8
	10	53.30					A98026-ND	4.95	4.46	3.96	1-1776260-0
	12	63.46					A98027-ND	5.98	5.38	4.78	1-1776260-2
Board Mount, 5.08mm Centerline, 18.8mm Profile, Side Wire Entry											
2	2	10.16	300	10	18 ~ 22	Black	A97958-ND	.78	.70	.62	1437671-1
	3	15.24					A97959-ND	1.13	1.02	.90	1437671-4
	4	20.32					A97960-ND	1.48	1.33	1.18	1437671-6
	5	25.40					A97961-ND	1.65	1.49	1.32	1437671-7
	6	30.48					A97962-ND	1.93	1.74	1.54	1437671-9
	8	40.64	300	10	18 ~ 22	Black	A97963-ND	4.83	4.35	3.86	1-1437671-1
	10	50.80					A97964-ND	3.18	2.86	2.54	1-1437671-3
	12	60.96					A98314-ND	3.83	3.45	3.06	1-1437671-5

NEW! Terminal Blocks – Two Piece Connectors

Plugs

Fig. 1

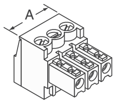

Fig. 2

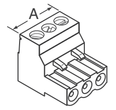

Fig. 3

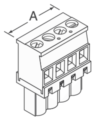

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
3.5mm Centerline, 15.5mm Profile, Right Angle Plug											
1	2	7.0	300	11	14 ~ 30	Green	A98173-ND	.85	.77	.68	284506-2
	3	10.5					A98374-ND	1.25	1.13	1.00	284506-3
	4	14.0					A98375-ND	1.70	1.53	1.36	284506-4
	5	17.5					A98376-ND	2.13	1.92	1.70	284506-5
	6	21.0					A98377-ND	2.53	2.28	2.02	284506-6
	8	28.0	300	11	14 ~ 30	Green	A98174-ND	3.40	3.06	2.72	284506-8
	10	35.0					A98378-ND	4.23	3.81	3.38	1-284506-0
	12	42.0					A98379-ND	5.05	4.55	4.04	1-284506-2
3.81mm Centerline, 15.5mm Profile, Right Angle Plug											
1	2	7.62	300	11	14 ~ 30	Green	A98175-ND	.85	.77	.68	284507-2
	3	11.43					A98380-ND	1.25	1.13	1.00	284507-3
	4	15.24					A98381-ND	1.70	1.53	1.36	284507-4
	5	19.05					A98382-ND	2.13	1.92	1.70	284507-5
	6	22.86					A98383-ND	2.53	2.28	2.02	284507-6
	8	30.48	300	11	14 ~ 30	Green	A98176-ND	3.40	3.06	2.72	284507-8
	10	38.10					A98384-ND	4.23	3.81	3.38	1-284507-0
	12	45.72					A98177-ND	5.05	4.55	4.04	1-284507-2
5.0mm Centerline, 18.4mm Profile, Right Angle Plug											
2	2	10.00	300	15	12 ~ 30	Green	A98241-ND	.78	.70	.62	796640-2
	3	15.00					A98242-ND	1.10	.99	.88	796640-3
	4	20.00					A98243-ND	1.48	1.33	1.18	796640-4
2	5	25.00	300	15	12 ~ 30	Green	A98429-ND	1.90	1.71	1.52	796640-5
	6	30.00					A98244-ND	2.28	2.05	1.82	796640-6
	8	40.00					A98245-ND	3.00	2.70	2.40	796640-8
	10	50.00					A98430-ND	3.50	3.15	2.80	1-796640-0
	12	60.00					A98246-ND	4.50	4.05	3.60	1-796640-2
5.08mm Centerline, 18.4mm Profile, Right Angle Plug											
2	2	10.16	300	15	12 ~ 30	Green	A98223-ND	.78	.70	.62	796634-2
	3	15.24					A98224-ND	1.10	.99	.88	796634-3
	4	20.32					A98225-ND	1.48	1.33	1.18	796634-4
	5	25.40					A98226-ND	1.85	1.67	1.48	796634-5
	6	30.48					A98227-ND	2.28	2.05	1.82	796634-6
	8	40.64	300	15	12 ~ 30	Green	A98228-ND	3.00	2.70	2.40	796634-8
	10	50.80					A98229-ND	3.73	3.36	2.98	1-796634-0
	12	60.96					A98230-ND	4.50	4.05	3.60	1-796634-2
5.0mm Centerline, 25.0mm Profile, Straight Plug (Left Hand)											
3	2	10.0	300	15	12 ~ 30	Green	A98122-ND	.95	.86	.76	284040-2
	3	15.0					A98364-ND	1.40	1.26	1.12	284040-3
	4	20.0					A98123-ND	1.85	1.67	1.48	284040-4
	5	25.0					A98124-ND	2.35	2.12	1.88	284040-5
	6	30.0					A98365-ND	2.80	2.52	2.24	284040-6
	8	40.0	300	15	12 ~ 30	Green	A98366-ND	3.73	3.36	2.98	284040-8
	10	50.0					A98126-ND	4.68	4.21	3.74	1-284040-0
	12	60.0					A98127-ND	5.60	5.04	4.48	1-284040-2
5.08mm Centerline, 25.0mm Profile, Straight Plug (Left Hand)											
3	2	10.16	300	15	12 ~ 30	Green	A98128-ND	.95	.86	.76	284041-2
	3	15.24					A98129-ND	1.40	1.26	1.12	284041-3
	4	20.32					A98367-ND	1.85	1.67	1.48	284041-4
	5	25.40					A98130-ND	2.35	2.12	1.88	284041-5
	6	30.48					A98131-ND	2.80	2.52	2.24	284041-6
	8	40.64	300	15	12 ~ 30	Green	A98132-ND	3.73	3.36	2.98	284041-8
	10	50.80					A98133-ND	4.68	4.21	3.74	1-284041-0
	12	60.96					A98134-ND	5.60	5.04	4.48	1-284041-2

(Continued)

NEW! Terminal Blocks – Two Piece Connectors *(Cont.)*

Plugs With Screw Flanges

Fig. 1

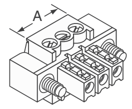

Fig. 2

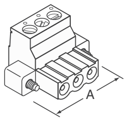

Fig. 3

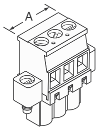

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
								1	10	100	
3.5mm Centerline, 15.5mm Profile, Right Angle Plug											
1	2	7.6	300	11	14 ~ 30	Green	A98385-ND	1.05	.95	.84	284510-2
	3	11.1					A98386-ND	1.58	1.42	1.26	284510-3
	4	14.6					A98387-ND	2.10	1.89	1.68	284510-4
	5	18.1					A98388-ND	2.60	2.34	2.08	284510-5
	6	21.6					A98389-ND	3.18	2.86	2.54	284510-6
	8	28.6	300	11	14 ~ 30	Green	A98390-ND	4.20	3.78	3.36	284510-8
	10	35.6					A98178-ND	5.28	4.75	4.22	1-284510-0
	12	42.6					A98179-ND	6.28	5.65	5.02	1-284510-2
3.81mm Centerline, 15.5mm Profile, Right Angle Plug											
1	2	8.22	300	11	14 ~ 30	Green	A98391-ND	1.05	.95	.84	284511-2
	3	12.03					A98392-ND	1.58	1.42	1.26	284511-3
	4	15.84					A98180-ND	2.10	1.89	1.68	284511-4
	5	19.65					A98393-ND	2.60	2.34	2.08	284511-5
	6	23.46					A98394-ND	3.18	2.86	2.54	284511-6
	8	31.08	300	11	14 ~ 30	Green	A98395-ND	4.20	3.78	3.36	284511-8
	10	38.70					A98181-ND	5.28	4.75	4.22	1-284511-0
	12	46.32					A98182-ND	6.28	5.65	5.02	1-284511-2
5.0mm Centerline, 18.4mm Profile, Right Angle Plug											
2	2	19.8	300	15	12 ~ 30	Green	A98277-ND	1.00	.90	.80	796858-2
	3	24.8					A98278-ND	1.48	1.33	1.18	796858-3
	4	29.8					A98279-ND	2.00	1.80	1.60	796858-4
	5	34.8					A98280-ND	2.48	2.23	1.98	796858-5
	6	39.8					A98281-ND	2.98	2.68	2.38	796858-6
	8	49.8					A98282-ND	3.95	3.56	3.16	796858-8
5.08mm Centerline, 18.4mm Profile, Right Angle Plug											
2	2	19.96	300	15	12 ~ 30	Green	A98283-ND	1.00	.90	.80	796859-2
	3	25.04					A98284-ND	1.48	1.33	1.18	796859-3
	4	30.12					A98451-ND	2.00	1.80	1.60	796859-4
	5	35.20					A98285-ND	2.48	2.23	1.98	796859-5
	6	40.28					A98286-ND	2.98	2.68	2.38	796859-6
	8	50.44	300	15	12 ~ 30	Green	A98287-ND	3.95	3.56	3.16	796859-8
	10	60.60					A98452-ND	4.95	4.46	3.96	1-796859-0
	12	70.76					A98288-ND	5.98	5.38	4.78	1-796859-2
5.08mm Centerline, 25.0mm Profile, Straight Plug (Left Hand)											
3	2	10.16	300	15	12 ~ 30	Green	A98289-ND	1.20	1.08	.96	796861-2
	3	15.24					A98290-ND	1.78	1.60	1.42	796861-3
	4	20.32					A98291-ND	2.38	2.14	1.90	796861-4
	5	25.40					A98292-ND	2.98	2.68	2.38	796861-5
	6	30.48					A98293-ND	3.58	3.22	2.86	796861-6
	8	40.64	300	15	12 ~ 30	Green	A98453-ND	4.78	4.30	3.82	796861-8
	10	50.80					A98294-ND	5.98	5.38	4.78	1-796861-0
	12	60.96					A98295-ND	7.13	6.42	5.70	1-796861-2

Multi-Directional Connectors

Fig. 1

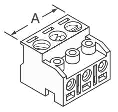

Fig. 2

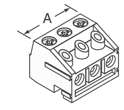

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
								1	10	100	
5.0mm Centerline, 11.5mm Profile, 90°/180° Plug, Rising Cage Style											
1	2	10.00	300	12	14 ~ 30	Green	A98327-ND	.70	.63	.56	282830-2
	3	15.00					A98328-ND	1.03	.93	.82	282830-3
	4	20.00					A98072-ND	1.35	1.22	1.08	282830-4
	5	25.00					A98073-ND	1.68	1.51	1.34	282830-5
	6	30.00					A98329-ND	2.03	1.83	1.62	282830-6
	8	40.00	300	12	14 ~ 30	Green	A98330-ND	2.65	2.39	2.12	282830-8
	10	50.00					A98331-ND	3.35	3.02	2.68	1-282830-0
	12	60.00					A98332-ND	4.05	3.65	3.24	1-282830-2
5.0mm Centerline, 11.0mm Profile, 90°/180° Plug, Wire Protector Style											
2	2	10.0	300	10	14 ~ 22	Blue	A98028-ND	.25	.23	.20	1776263-2
	3	15.0					A98029-ND	.38	.34	.30	1776263-3
	4	20.0					A98030-ND	.53	.48	.42	1776263-4
	5	25.0					A98031-ND	.53	.48	.42	1776263-5
	6	30.0					A98032-ND	.80	.72	.64	1776263-6
	8	40.0	300	10	14 ~ 22	Blue	A98033-ND	1.05	.95	.84	1776263-8
	10	50.0					A98034-ND	1.33	1.20	1.06	1-1776263-0
	12	60.0					A98035-ND	1.55	1.40	1.24	1-1776263-2

Pivot Block Connectors

Fig. 1

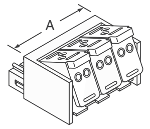

Fig. 2

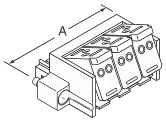

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	AWG	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
								1	10	100	
3.5mm Centerline, 21.7mm Profile — Insulation Displacement											
1	2	9.00	250	5	22 ~ 24	Green	A98044-ND	2.43	2.19	1.94	1776282-2
	3	12.50					A98045-ND	2.83	2.55	2.26	1776282-3
	4	16.00					A98046-ND	3.23	2.91	2.58	1776282-4
	5	19.50					A98047-ND	3.58	3.22	2.86	1776282-5
	6	23.00					A98048-ND	4.10	3.69	3.28	1776282-6
	8	30.00	250	5	22 ~ 24	Green	A98049-ND	4.85	4.37	3.88	1776282-8
	10	37.00					A98050-ND	5.73	5.16	4.58	1-1776282-0
	12	44.00					A98051-ND	6.50	5.85	5.20	1-1776282-2
3.5mm Centerline, 21.7mm Profile, With Screw Flange — Insulation Displacement											
2	2	17.00	250	5	22 ~ 24	Green	A98052-ND	2.63	2.37	2.10	1776283-2
	3	20.50					A98053-ND	2.98	2.68	2.38	1776283-3
	4	24.00					A98054-ND	3.40	3.06	2.72	1776283-4
	5	27.50					A98055-ND	3.73	3.36	2.98	1776283-5
	6	31.00					A98056-ND	3.83	3.45	3.06	1776283-6
	8	38.00	250	5	22 ~ 24	Green	A98057-ND	5.00	4.50	4.00	1776283-8
	10	45.00					A98058-ND	5.73	5.16	4.58	1-1776283-0
	12	52.00					A98059-ND	6.68	6.01	5.34	1-1776283-2

Headers Without Flanges

Fig. 1

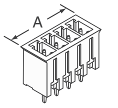

Fig. 2

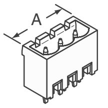

Fig. 3

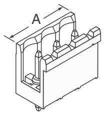

Fig. 4

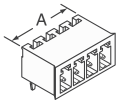

Fig. 5

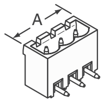

Fig. 6

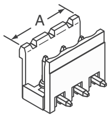

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	Housing Color	Digi-Key Part No.	Price Each			Tyco Electronics Part No.
							1	10	100	
3.5mm Centerline, 9.2mm Profile, Straight Closed End Header										
1	2	9.0	300	11	Green	A98188-ND	.35	.32	.28	284514-2
	3	12.5				A98407-ND	.53	.48	.42	284514-3
	4	16.0				A98189-ND	.73	.66	.58	284514-4
	5	19.5				A98408-ND	.88	.79	.70	284514-5
	6	23.0				A98409-ND	1.05	.95	.84	284514-6
	8	30.0	300	11	Green	A98190-ND	1.40	1.26	1.12	284514-8
	10	37.0				A98191-ND	1.75	1.58	1.40	1-284514-0
	12	44.0				A98192-ND	2.10	1.89	1.68	1-284514-2
3.81mm Centerline, 9.2mm Profile, Straight Closed End Header										
1	2	9.91	300	11	Green	A98410-ND	.35	.32	.28	284517-2
	3	13.72				A98411-ND	.53	.48	.42	284517-3
	4	17.53				A98202-ND	.73	.66	.58	284517-4
	5	21.34				A98412-ND	.88	.79	.70	284517-5
	6	25.15				A98203-ND	1.05	.95	.84	284517-6
	8	32.77	300	11	Green	A98204-ND	1.40	1.26	1.12	284517-8
	10	40.39				A98205-ND	1.75	1.58	1.40	1-284517-0
	12	48.01				A98206-ND	2.10	1.89	1.68	1-284517-2
5.0mm Centerline, 12.0mm Profile, Straight Closed End Header										
2	2	12.0	300	15	Green	A98431-ND	.33	.30	.26	796642-2
	3	17.0				A98432-ND	.50	.45	.40	796642-3
	4	22.0				A98433-ND	.68	.61	.54	796642-4
	5	27.0				A98434-ND	.83	.75	.66	796642-5
	6	32.0				A98435-ND	1.00	.90	.80	796642-6
	8	42.0	300	15	Green	A98436-ND	1.33	1.20	1.06	796642-8
	10	52.0				A98247-ND	1.63	1.47	1.30	1-796642-0
	12	62.0				A98437-ND	1.95	1.76	1.56	1-796642-2
5.08mm Centerline, 12.0mm Profile, Straight Closed End Header										
2	2	11.98	300	15	Green	A98231-ND	.33	.30	.26	796636-2
	3	17.06				A98423-ND	.50	.45	.40	796636-3
	4	22.14				A98232-ND	.68	.61	.54	796636-4
	5	27.22				A98424-ND	.83	.75	.66	796636-5
	6	32.30				A98233-ND	1.00	.90	.80	796636-6
	8	42.46	300	15	Green	A98234-ND	1.33	1.20	1.06	796636-8
	10	52.62				A98425-ND	1.63	1.47	1.30	1-796636-0
	12	62.78				A98426-ND	1.95	1.76	1.56	1-796636-2
5.0mm Centerline, 12.0mm Profile, Straight Open End Header										
3	2	10.0	300	15	Green	A98315-ND	.28	.25	.22	282822-2
	3	15.0				A98316-ND	.48	.43	.38	282822-3
	4	20.0				A98317-ND	.65	.59	.52	282822-4
	5	25.0				A98318-ND	.80	.72	.64	282822-5
	6	30.0				A98068-ND	.98	.88	.78	282822-6
	8	40.0	300	15	Green	A98319-ND	1.25	1.13	1.00	282822-8
	10	50.0				A98320-ND	1.58	1.42	1.26	1-282822-0
	12	60.0				A98069-ND	1.90	1.71	1.52	1-282822-2

(Continued)

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
5.08mm Centerline, 12.0mm Profile, Straight Open End Header										
3	2	10.16	300	15	Green	A98321-ND	.28	.25	.22	282825-2
	3	15.24				A98322-ND	.48	.43	.38	282825-3
	4	20.32				A98323-ND	.65	.59	.52	282825-4
	5	25.40				A98324-ND	.80	.72	.64	282825-5
	6	30.48				A98325-ND	.98	.88	.78	282825-6
	8	40.64	300	15	Green	A98326-ND	1.25	1.13	1.00	282825-8
	10	50.80				A98070-ND	1.58	1.42	1.26	1-282825-0
	12	60.96				A98071-ND	1.90	1.71	1.52	1-282825-2
3.5mm Centerline, 9.2mm Profile, Right Angle Closed End Header										
4	2	9.0	300	11	Green	A98396-ND	.35	.32	.28	284512-2
	3	12.5				A98397-ND	.53	.48	.42	284512-3
	4	16.0				A98398-ND	.73	.66	.58	284512-4
	5	19.5				A98399-ND	.88	.79	.70	284512-5
	6	23.0				A98183-ND	1.05	.95	.84	284512-6
	8	30.0	300	11	Green	A98184-ND	1.40	1.26	1.12	284512-8
	10	37.0				A98400-ND	1.75	1.58	1.40	1-284512-0
	12	44.0				A98185-ND	2.10	1.89	1.68	1-284512-2
3.81mm Centerline, 9.2mm Profile, Right Angle Closed End Header										
4	2	9.91	300	11	Green	A98401-ND	.35	.32	.28	284513-2
	3	13.72				A98402-ND	.53	.48	.42	284513-3
	4	17.53				A98403-ND	.73	.66	.58	284513-4
	5	21.34				A98404-ND	.88	.79	.70	284513-5
	6	25.15				A98405-ND	1.05	.95	.84	284513-6
	8	32.77	300	11	Green	A98406-ND	1.40	1.26	1.12	284513-8
	10	40.39				A98186-ND	1.75	1.58	1.40	1-284513-0
	12	48.01				A98187-ND	2.10	1.89	1.68	1-284513-2
5.0mm Centerline, 12.0mm Profile, Right Angle Closed End Header										
5	2	12.0	300	15	Green	A98248-ND	.33	.30	.26	796644-2
	3	17.0				A98249-ND	.50	.45	.40	796644-3
	4	22.0				A98250-ND	.68	.61	.54	796644-4
	5	27.0				A98438-ND	.80	.72	.64	796644-5
	6	32.0				A98251-ND	1.00	.90	.80	796644-6
	8	42.0	300	15	Green	A98439-ND	1.33	1.20	1.06	796644-8
	10	52.0				A98440-ND	1.55	1.40	1.24	1-796644-0
	12	62.0				A98441-ND	1.95	1.76	1.56	1-796644-2
5.08mm Centerline, 12.0mm Profile, Right Angle Closed End Header										
5	2	11.98	300	15	Green	A98235-ND	.33	.30	.26	796638-2
	3	17.06				A98236-ND	.70	.63	.56	796638-3
	4	22.14				A98237-ND	.68	.61	.54	796638-4
	5	27.22				A98238-ND	.83	.75	.66	796638-5
	6	32.30				A98239-ND	1.00	.90	.80	796638-6
	8	42.46	300	15	Green	A98240-ND	1.33	1.20	1.06	796638-8
	10	52.62				A98427-ND	1.63	1.47	1.30	1-796638-0
	12	62.78				A98428-ND	1.95	1.76	1.56	1-796638-2
5.0mm Centerline, 12.0mm Profile, Right Angle Open End Header With Interlock										
6	2	10.0	300	15	Green	A98062-ND	.28	.25	.22	282811-2
	3	15.0				A98063-ND	.48	.43	.38	282811-3
	4	20.0				A98064-ND	.65	.59	.52	282811-4
5.08mm Centerline, 12.0mm Profile, Right Angle Open End Header With Interlock										
6	2	10.16	300	15	Green	A98065-ND	.28	.25	.22	282814-2
	3	15.24				A98066-ND	.48	.43	.38	282814-3
	4	20.32				A98067-ND	.65	.59	.52	282814-4

Headers With Threaded Flanges

Fig. 1

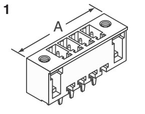

Fig. 2

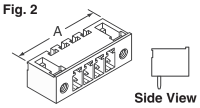

Fig. 3

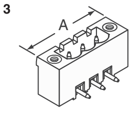

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
3.5mm Centerline, 9.2mm Profile, Straight Header										
1	2	17.3	300	11	Green	A98193-ND	.48	.43	.38	284516-2
	3	20.8				A98194-ND	.73	.66	.58	284516-3
	4	24.3				A98195-ND	.95	.86	.76	284516-4
	5	27.8				A98196-ND	1.15	1.04	.92	284516-5
	6	31.3				A98197-ND	1.40	1.26	1.12	284516-6
	8	38.3	300	11	Green	A98198-ND	1.85	1.67	1.48	284516-8
	10	45.3				A98199-ND	2.33	2.10	1.86	1-284516-0
	12	52.3				A98200-ND	2.73	2.46	2.18	1-284516-2
3.81mm Centerline, 9.2mm Profile, Straight Header										
1	2	18.01	300	11	Green	A98207-ND	.48	.43	.38	284519-2
	3	21.82				A98208-ND	.73	.66	.58	284519-3
	4	25.63				A98209-ND	.95	.86	.76	284519-4
	5	29.44				A98210-ND	1.15	1.04	.92	284519-5
	6	33.25				A98212-ND	1.40	1.26	1.12	284519-6
	8	40.87	300	11	Green	A98213-ND	1.85	1.67	1.48	284519-8
	10	48.49				A98214-ND	2.33	2.10	1.86	1-284519-0
	12	56.11				A98215-ND	2.73	2.46	2.18	1-284519-2
5.08mm Centerline, 12.0mm Profile, Straight Header										
1	2	20.24	300	15	Green	A98307-ND	.45	.41	.36	796867-2
	3	25.32				A98308-ND	.68	.61	.54	796867-3
	4	30.40				A98457-ND	.88	.79	.70	796867-4
	5	35.48				A98309-ND	1.08	.97	.86	796867-5
	6	40.56				A98310-ND	1.33	1.20	1.06	796867-6
	8	50.72	300	15	Green	A98311-ND	1.75	1.58	1.40	796867-8
	10	60.88				A98312-ND	2.23	2.01	1.78	1-796867-0
	12	71.04				A98313-ND	2.60	2.34	2.08	1-796867-2
3.5mm Centerline, 9.2mm Profile, Right Angle Header										
2	2	17.3	300	11	Green	A98413-ND	.48	.43	.38	284539-2
	3	20.8				A98414-ND	.73	.66	.58	284539-3
2	4	24.3	300	11	Green	A98415-ND	.95	.86	.76	284539-4
	5	27.8				A98416-ND	1.15	1.04	.92	284539-5
	6	31.3				A98417-ND	1.40	1.26	1.12	284539-6
	8	38.3				A98418-ND	1.85	1.67	1.48	284539-8
	10	45.3				A98419-ND	2.33	2.10	1.86	1-284539-0
	12	52.3				A98216-ND	2.73	2.46	2.18	1-284539-2
3.81mm Centerline, 9.2mm Profile, Right Angle Header										
2	2	18.01	300	11	Green	A98217-ND	.48	.43	.38	284541-2
	3	21.82				A98420-ND	.73	.66	.58	284541-3
	4	25.63				A98218-ND	.95	.86	.76	284541-4
	5	29.44				A98219-ND	1.15	1.04	.92	284541-5
	6	33.25				A98421-ND	1.40	1.26	1.12	284541-6
	8	40.87	300	11	Green	A98422-ND	1.85	1.67	1.48	284541-8
	10	48.49				A98221-ND	2.33	2.10	1.86	1-284541-0
	12	56.11				A98222-ND	2.73	2.46	2.18	1-284541-2
5.0mm Centerline, 12.0mm Profile, Right Angle Header										
3	2	20.0	300	15	Green	A98296-ND	.50	.45	.40	796864-2
	3	25.0				A98297-ND	.65	.59	.52	796864-3
	4	30.0				A98298-ND	.90	.81	.72	796864-4
	5	35.0				A98299-ND	1.23	1.11	.98	796864-5
	6	40.0				A98300-ND	1.83	1.65	1.46	796864-6
	8	50.0				A98301-ND	2.13	1.92	1.70	796864-8
5.08mm Centerline, 12.0mm Profile, Right Angle Header										
3	2	20.24	300	15	Green	A98302-ND	.45	.41	.36	796866-2
	3	25.32				A98454-ND	.68	.61	.54	796866-3
	4	30.40				A98303-ND	.88	.79	.70	796866-4
	5	35.48				A98304-ND	1.08	.97	.86	796866-5
	6	40.56				A98305-ND	1.33	1.20	1.06	796866-6
	8	50.72	300	15	Green	A98455-ND	1.75	1.58	1.40	796866-8
	10	60.88				A98456-ND	2.23	2.01	1.78	1-796866-0
	12	71.04				A98306-ND	2.60	2.34	2.08	1-796866-2

Double Row Headers

Fig. 1

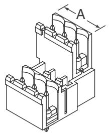

Fig. 2

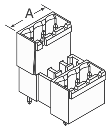

Fig. 3

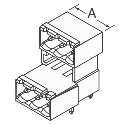

Fig.	No. of Pos.	Dim. A (mm)	Volt. (V)	Amps (A)	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
5.0mm Centerline, 22.1mm Profile, Straight Open End Header With Interlock										
1	2	10.0	300	15	Green	A98135-ND	.75	.68	.60	284056-2
	3	15.0				A98136-ND	1.13	1.02	.90	284056-3
	4	20.0				A98137-ND	1.48	1.33	1.18	284056-4
	5	25.0				A98138-ND	1.88	1.69	1.50	284056-5
5.08mm Centerline, 22.08mm Profile, Straight Closed End Header										
2	2	13.08	300	15	Green	A98146-ND	.95	.86	.76	284065-2
	3	18.16				A98147-ND	1.40	1.26	1.12	284065-3
	4	23.24				A98148-ND	1.85	1.67	1.48	284065-4
	5	28.32				A98149-ND	2.38	2.14	1.90	284065-5
	6	33.40				A98150-ND	2.83	2.55	2.26	284065-6
	8	43.56	300	15	Green	A98151-ND	3.73	3.36	2.98	284065-8
	10	53.72				A98152-ND	4.68	4.21	3.74	1-284065-0
	12	63.88				A98153-ND	5.60	5.04	4.48	1-284065-2
5.0mm Centerline, 22.9mm Profile, High Temperature, Right Angle Closed End Header										
3	2	12.0	300	15	Black	A97990-ND	1.03	.93	.82	1776166-2
	3	17.0				A97991-ND	1.88	1.69	1.50	1776166-3
	4	22.0				A97992-ND	2.50	2.25	2.00	1776166-4
	5	27.0				A97993-ND	2.60	2.34	2.08	1776166-5
	6	32.0				A97994-ND	3.10	2.79	2.48	1776166-6
	8	42.0				A97995-ND	4.15	3.74	3.32	1776166-8
5.08mm Centerline, 22.9mm Profile, Right Angle Closed End Header										
3	2	12.20	300	15	Green	A98139-ND	1.00	.90	.80	284061-2
	3	17.28				A98140-ND	1.48	1.33	1.18	284061-3
	4	22.36				A98141-ND	2.00	1.80	1.60	284061-4
	5	27.44				A98142-ND	2.48	2.23	1.98	284061-5
	6	32.52				A98143-ND	2.98	2.68	2.38	284061-6
	8	42.68	300	15	Green	A98368-ND	3.95	3.56	3.16	284061-8
	10	52.84				A98144-ND	4.95	4.46	3.96	1-284061-0
	12	63.00				A98145-ND	5.98	5.38	4.78	1-284061-2

Unshrouded Pin Headers

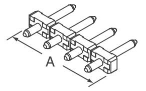

No. of Pos.	Dim. A (mm)	Voltage (V)	Amps (A)	Housing Color	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
5.0mm Centerline, High Temperature, Straight Pin Header									
2	10.0	300	12	Black	A97965-ND	.19	.17	.15	1546931-2
3	15.0				A97966-ND	.28	.26	.23	1546931-3
4	20.0				A97967-ND	.34	.31	.28	1546931-4
5	25.0				A97968-ND	.43	.40	.35	1546931-5
6	30.0				A97969-ND	.55	.50	.44	1546931-6
8	40.0	300	12	Black	A97970-ND	.73	.66	.58	1546931-8
10	50.0				A97971-ND	.88	.79	.70	1-1546931-0
12	60.0				A97972-ND	1.05	.95	.84	1-1546931-2

Double Row Barrier Blocks

Features: • Interposing barriers between terminals • Can be equipped with binder head screws only, or with binder head screws and Y solder terminals • UL recognized

Specifications: • Operating Temperature: -55°F ~ 300°F (-48°C ~ 149°C) • Maximum Wire Size: .375” (9.53mm) - #16; .438” (11.13mm) - #15; .563” (14.30mm) - #10 • Voltage Rating: .375” and .438” (9.53mm and 11.13mm) - 1100VAC rms maximum; .563” (14.30mm) - 1600VAC rms maximum • Current Rating: .375” (9.53mm) - 15A maximum; .438” (11.13mm) - 20A maximum; .563” (14.30mm) - 30A maximum • Maximum Watts per Terminal: .375” (9.53mm) – 3750; .438” (11.13mm) – 5000; .563” (14.30mm) – 7500

Material: • Insulation Material: Molded monoblock, general purpose phenolic • Eyelet Material: Brass • Eyelet Plating: Nickel • Screw Material: Steel or brass • Screw Plating: Nickel over copper flash • Solder Terminal Material: Brass • Solder Terminal Plating: Tin

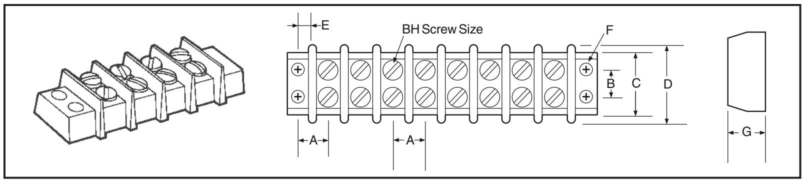

Terminal Spacing	Dimensions – Inch (mm)							BH Screw Size
	A	B	C	D	E	F	G	
.375 (9.53)	.375 (9.53)	.313 (7.95)	.688 (17.48)	.875 (22.23)	.141 (3.58)	.160 (4.06)	.406 (10.31)	5-40x3/16
.438 (11.13)	.438 (11.13)	.422 (10.72)	.875 (22.23)	1.125 (28.58)	.156 (3.96)	.175/.185 (4.45/4.70)	.500 (12.70)	6-32x1/4
.563 (14.30)	.563 (14.30)	.500 (12.70)	1.062 (26.97)	1.312 (33.32)	.203 (5.16)	.209 (5.31)	.625 (15.88)	8-32x5/16

Terminal Spacing	No. of Cont.	Digi-Key Part No.	Pricing		
			1	25	50
Series 140					
Barrier Blocks					
.375” (9.53mm)	2	CBB102-ND◆	1.40	26.60	48.39
	3	CBB103-ND◆	1.82	34.63	63.00
	4	CBB104-ND◆	1.98	37.64	68.48
	5	CBB105-ND◆	2.24	42.66	77.61
	6	CBB106-ND◆	2.77	52.70	95.87
	7	CBB107-ND◆	3.04	57.72	105.00
	8	CBB108-ND◆	3.46	65.75	119.60
	9	CBB109-ND◆	3.93	74.78	136.04
	10	CBB110-ND◆	4.36	82.81	150.65
	11	CBB111-ND	4.99	94.85	172.56
	12	CBB112-ND◆	5.10	96.86	176.21
	13	CBB319-ND◆	5.91	112.42	204.51
	14	CBB320-ND◆	6.26	118.94	216.38
	15	CBB321-ND◆	6.36	120.95	220.03
	16	CBB322-ND◆	6.55	124.47	226.42
	17	CBB323-ND◆	6.89	130.99	238.29
	18	CBB324-ND◆	7.29	138.52	251.99
	19	CBB325-ND◆	7.84	149.06	271.16
	20	CBB326-ND◆	8.47	161.10	293.07
	21	CBB327-ND◆	8.69	165.12	300.38
	22	CBB328-ND◆	8.98	170.64	310.42
	23	CBB329-ND◆	9.00	171.14	311.33
	24	CBB451-ND◆	9.08	172.65	314.07
	25	CBB330-ND◆	9.16	174.15	316.81
Marker Strips — RoHS Compliant					
.375” (9.53mm)	2	CBB331-ND	.82	15.56	28.30
	3	CBB332-ND	.87	16.56	30.13
	4	CBB333-ND	.92	17.57	31.96
	5	CBB334-ND	.92	17.57	31.96
	6	CBB335-ND	.92	17.57	31.96
	7	CBB336-ND	.98	18.57	33.78
	8	CBB337-ND	1.06	20.08	36.52
	9	CBB338-ND	1.16	22.08	40.17
	10	CBB339-ND	1.19	22.58	41.09
	11	CBB340-ND	1.16	22.08	40.17
	12	CBB341-ND	1.24	23.59	42.91
	13	CBB342-ND	1.37	26.10	47.48
	14	CBB343-ND	1.37	26.10	47.48
	15	CBB344-ND	1.37	26.10	47.48
	16	CBB345-ND	1.56	29.61	53.87
	17	CBB346-ND	1.56	29.61	53.87
	18	CBB347-ND	1.56	29.61	53.87
	19	CBB348-ND	1.80	34.13	62.08
	20	CBB349-ND	1.98	37.64	68.48
	21	CBB350-ND	1.98	37.64	68.48
	22	CBB351-ND	1.98	37.64	68.48
	23	CBB352-ND	1.98	37.64	68.48
	24	CBB353-ND	2.64	50.19	91.30
	25	CBB354-ND	2.64	50.19	91.30
“Y” Solder Terminal Barrier Blocks — RoHS Compliant					
.375” (9.53mm)	2	CBB355-ND	2.01	38.14	69.39
	3	CBB356-ND	2.24	42.66	77.61
	4	CBB357-ND	2.88	54.70	99.52
	5	CBB358-ND	3.41	64.74	117.78
	6	CBB359-ND	3.99	75.78	137.86
	7	CBB360-ND	4.46	84.82	154.30
	8	CBB361-ND	4.99	94.85	172.56
	9	CBB362-ND	5.57	105.90	192.64
	10	CBB363-ND	5.99	113.93	207.25
	11	CBB364-ND	7.52	143.03	260.21
	12	CBB365-ND	8.10	154.08	280.29
	13	CBB366-ND	8.53	162.11	294.90
	14	CBB367-ND	8.87	168.63	306.77
	15	CBB368-ND	9.42	179.17	325.94
	16	CBB369-ND	10.14	192.72	350.59
	17	CBB370-ND	10.67	202.76	368.85
	18	CBB371-ND	12.91	245.42	446.46
.375” (9.53mm)	19	CBB372-ND	11.64	221.33	402.63
	20	CBB373-ND	13.23	251.44	457.41
	21	CBB374-ND	12.54	238.39	433.68
	22	CBB375-ND	12.65	240.40	437.33
	23	CBB376-ND	12.70	241.40	439.15
	24	CBB377-ND	14.47	275.03	500.32
	25	CBB378-ND	14.78	281.05	511.28
“Y” Solder Terminal Marker Strips — RoHS Compliant					
.375” (9.53mm)	2	CBB379-ND	1.72	32.62	59.35
	3	CBB380-ND	.95	18.07	32.87
	4	CBB381-ND	.95	18.07	32.87
	5	CBB382-ND	1.16	22.08	40.17
	6	CBB383-ND	1.16	22.08	40.17
	7	CBB384-ND	1.16	22.08	40.17
	8	CBB385-ND	1.16	22.08	40.17
	9	CBB386-ND	1.24	23.59	42.91
	10	CBB387-ND	1.37	26.10	47.48
	11	CBB388-ND	1.37	26.10	47.48
	12	CBB389-ND	1.37	26.10	47.48
	13	CBB390-ND	1.56	29.61	53.87
	14	CBB391-ND	1.56	29.61	53.87
	15	CBB392-ND	1.56	29.61	53.87
	16	CBB393-ND	1.80	34.13	62.08
	17	CBB394-ND	1.80	34.13	62.08
	18	CBB395-ND	1.80	34.13	62.08
	19	CBB396-ND	2.22	42.16	76.69
	20	CBB397-ND	2.46	46.67	84.91
	21	CBB398-ND	2.46	46.67	84.91
	22	CBB399-ND	2.61	49.69	90.39
	23	CBB400-ND	2.61	49.69	90.39
	24	CBB401-ND	2.75	52.20	94.95
	25	CBB402-ND	3.19	60.73	110.47
Series 141					
Barrier Blocks					
.438” (11.13mm)	2	CBB202-ND	1.40	26.60	48.39
	3	CBB203-ND◆	2.30	43.66	79.43
	4	CBB204-ND◆	2.30	43.66	79.43
	5	CBB205-ND◆	2.56	48.68	88.56
	6	CBB206-ND◆	2.98	56.71	103.17
	7	CBB207-ND◆	3.67	69.76	126.91
	8	CBB208-ND◆	3.83	72.77	132.39
	9	CBB209-ND◆	4.36	82.81	150.65
	10	CBB210-ND◆	4.44	84.32	153.38
	11	CBB211-ND◆	5.10	96.86	176.21
	12	CBB212-ND	5.39	102.38	186.25
	13	CBB403-ND◆	6.02	114.43	208.16
	14	CBB404-ND◆	6.42	121.96	221.86
	15	CBB405-ND◆	6.94	131.99	240.12
	16	CBB406-ND◆	7.26	138.02	251.08
	17	CBB407-ND◆	7.84	149.06	271.16
	18	CBB408-ND◆	8.34	158.59	288.51
	19	CBB409-ND◆	8.58	163.11	296.73
	20	CBB410-ND◆	9.08	172.65	314.07
Marker Strips — RoHS Compliant					
.438” (11.13mm)	2	CBB411-ND	.82	15.56	28.30
	3	CBB412-ND	.84	16.06	29.22
	4	CBB413-ND	.92	17.57	31.96
	5	CBB414-ND	.95	18.07	32.87
	6	CBB415-ND	.95	18.07	32.87
	7	CBB416-ND	.98	18.57	33.78
	8	CBB417-ND	1.16	22.08	40.17
	9	CBB418-ND	1.16	22.08	40.17
	10	CBB419-ND	1.24	23.59	42.91
	11	CBB420-ND	1.37	26.10	47.48
	12	CBB421-ND	1.37	26.10	47.48
	13	CBB422-ND	1.56	29.61	53.87
	14	CBB423-ND	1.56	29.61	53.87
	15	CBB424-ND	1.80	34.13	62.08
	16	CBB425-ND	1.80	34.13	62.08
	17	CBB426-ND	1.93	36.64	66.65
	18	CBB427-ND	2.09	39.65	72.13
	19	CBB428-ND	2.11	40.15	73.04
	20	CBB429-ND	2.46	46.67	84.91
Series 142					
Barrier Blocks					
.563” (14.30mm)	2	CBB302-ND◆	2.11	40.15	73.04
	3	CBB303-ND	2.56	48.68	88.56
	4	CBB304-ND◆	2.93	55.71	101.34
	5	CBB305-ND◆	4.25	80.80	146.99
	6	CBB306-ND◆	6.10	115.93	210.90
	7	CBB307-ND	6.65	126.47	230.08
	8	CBB308-ND	6.94	131.99	240.12
	9	CBB309-ND	10.59	201.25	366.11
	10	CBB310-ND◆	11.11	211.29	384.37
	11	CBB311-ND◆	11.64	221.33	402.63
	12	CBB312-ND	11.72	222.83	405.37
	13	CBB430-ND◆	12.88	244.92	445.54
	14	CBB431-ND◆	13.81	262.48	477.50
	15	CBB432-ND◆	13.83	262.98	478.41
	16	CBB433-ND◆	14.81	281.55	512.19
	17	CBB434-ND◆	15.02	285.57	519.50
Marker Strips — RoHS Compliant					
.563” (14.30mm)	2	CBB435-ND	.82	15.56	28.30
	3	CBB436-ND	.84	16.06	29.22
	4	CBB437-ND	.95	18.07	32.87
	5	CBB438-ND	.95	18.07	32.87
	6	CBB439-ND	.95	18.07	32.87
	7	CBB440-ND	1.16	22.08	40.17
	8	CBB441-ND	1.16	22.08	40.17
	9	CBB442-ND	1.29	24.59	44.74
	10	CBB443-ND	1.37	26.10	47.48
	11	CBB444-ND	1.40	26.60	48.39
	12	CBB445-ND	1.48	28.11	51.13
	13	CBB446-ND	1.56	29.61	53.87
	14	CBB447-ND	1.93	36.64	66.65
	15	CBB448-ND	1.93	36.64	66.65
	16	CBB449-ND	2.14	40.65	73.95
	17	CBB450-ND	2.32	44.17	80.34

◆ *RoHS Compliant*

Accessories

Fig. 1

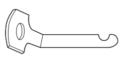

Y Type

Fig. 2

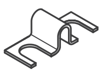

A Type

Fig. 3

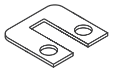

B Type

Fig. 4

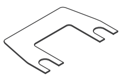

D Type

Fig. 5

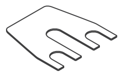

E Type

Fig. 6

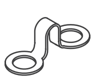

F Type

Fig.	Barrier Block Series	Digi-Key Part No.	Pricing		
			1	25	50
Y Solder Terminals					
1	140	CBB001-ND	.47	8.88	16.16
	141	CBB004-ND	.84	16.06	29.22
	142	CBB007-ND	.95	18.07	32.87
Jumpers					
2	140	CBB313-ND	.35	6.67	12.14
3	141	CBB315-ND	.46	8.68	15.79
4	142	CBB316-ND	.47	8.88	16.16
5	142	CBB317-ND	.42	8.03	14.61
6	141	CBB314-ND	.42	8.03	14.61
	142	CBB318-ND	1.14	21.58	39.26

molex® BEAU

Barrier Terminal Blocks

Fig. 1

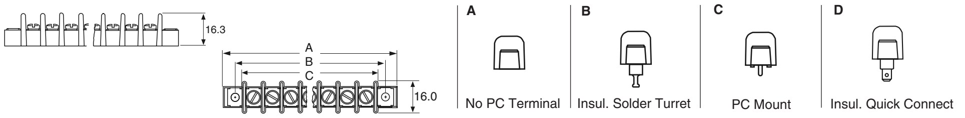

Fig. 2

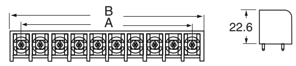

Fig. 3

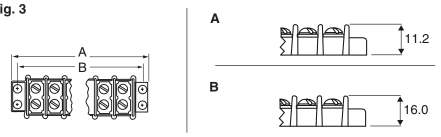

Fig. 4

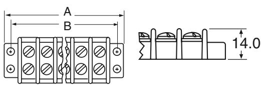

Fig. 5

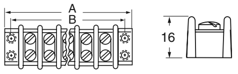

Fig. 6

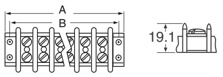

.375" Single Row, PCB Barrier Terminal Strip

Ratings: #6-32 Binding Head Screw: UL: Class B - 15Amps @ 300V 14AWG. Class C - 15Amps @ 150V 14AWG. CSA: Class B & C - 20Amps @ 300V 14AWG, **Mechanical:** Torque - 12 in-lbs. Strip length - 5/16". Wire range - 12 ~ 24AWG, **Materials:** Insulator: Thermoplastic, UL94V-0, black. Terminal: Brass, tin-lead plate. Screws: #6-32, phillips/slotted, steel, zinc chromate plate

Tri-Barrier and Double Row Barrier Terminal Strips:
PCB Tri-Barrier Terminal Strip, 600V

Ratings: M4 Wire Clamp Screw: UL & CSA: Class B & C: 45Amps @ 600V 8 AWG **Mechanical:** Torque - 16 in-lbs. Wire Range: 8 ~ 18 AWG Strip length - 5/16" Insulator: Thermoplastic, UL94V-0, black. Terminal: High copper brass, tin-lead plate. Screws: M4, steel, zinc chromate plate with clamp washer. UL File No. E48521, CSA File No. 025562 for all the Tri-Barrier, Double Row and Single Row

.375" Double Row Low Profile Barrier Terminal Strip

Ratings: #6-32 Binding Head Screw: UL: Class B - 15Amps @ 300V 14 AWG, Class C - 15Amps @ 150V 14 AWG. CSA: Class B & C - 20Amps @ 150V 14AWG **Mechanical:** Torque - 8in-lbs. Strip length - 5/16" Wire range - 12 ~ 24 AWG Insulator: Thermoplastic, UL94V0, black. Terminal: Brass, nickel plate. Screws: #6-32, phillips/slotted, steel, zinc chromate plate

Fig.	No. of Contacts	Dimension – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
					.375" Single Row, PCB Barrier Terminal Strip				
1A	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5720-ND◆	2.46	2.18	1.45	38720-0202
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5721-ND◆	3.00	2.65	1.77	38720-0203
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5722-ND◆	3.60	3.18	2.12	38720-0204
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5723-ND◆	4.08	3.61	2.41	38720-0205
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5724-ND◆	4.69	4.14	2.76	38720-0206
	8	3.83 (97.3)	3.38 (85.7)	3.08 (78.3)	WM5725-ND◆	5.83	5.15	3.43	38720-0208
	10	4.58 (116)	4.13 (105)	3.83 (97.3)	WM5726-ND◆	7.03	6.21	4.14	38720-0210
	12	5.33 (135)	4.88 (124)	4.58 (116)	WM5727-ND◆	8.17	7.21	4.81	38720-0212
1B	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5728-ND◆	2.94	2.60	1.74	38720-3202
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5729-ND◆	3.84	3.40	2.27	38720-3203
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5730-ND◆	4.69	4.14	2.76	38720-3204
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5731-ND◆	5.53	4.88	3.26	38720-3205
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5732-ND◆	6.37	5.62	3.75	38720-3206
	7	3.46 (87.8)	3.00 (76.2)	2.71 (68.8)	WM5733-ND	7.27	6.42	4.28	38720-3207
	8	3.83 (97.3)	3.38 (85.7)	3.08 (78.3)	WM5734-ND◆	8.11	7.16	4.77	38720-3208
	10	4.58 (116)	4.13 (105)	3.83 (97.3)	WM5735-ND◆	9.85	8.70	5.80	38720-3210
	11	4.96 (126)	4.50 (114)	4.21 (107)	WM5736-ND	10.69	9.44	6.29	38720-3211
	12	5.33 (135)	4.88 (124)	4.58 (116)	WM5737-ND◆	11.53	10.18	6.79	38720-3212
1C	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5738-ND◆	2.52	2.23	1.49	38720-6202
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5739-ND◆	3.12	2.76	1.84	38720-6203
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5740-ND◆*	2.10	1.86	1.24	38720-6303
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5741-ND◆	3.78	3.34	2.23	38720-6204
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5742-ND◆*	2.76	2.44	1.63	38720-6304
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5743-ND◆	4.38	3.87	2.58	38720-6205
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5744-ND◆*	3.42	3.03	2.02	38720-6305
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5745-ND◆	4.99	4.40	2.94	38720-6206
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5746-ND◆*	3.96	3.50	2.34	38720-6306
	8	3.83 (97.3)	3.38 (85.7)	3.08 (78.3)	WM5747-ND◆	6.31	5.57	3.71	38720-6208
	10	4.58 (116)	4.13 (105)	3.83 (97.3)	WM5748-ND◆	7.51	6.63	4.42	38720-6210
1D	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5749-ND◆	2.94	2.60	1.74	38721-6702
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5750-ND◆	3.84	3.40	2.27	38721-6703
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5751-ND◆	4.69	4.14	2.76	38721-6704
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5752-ND◆	6.37	5.62	3.75	38721-6706

◆ ***RoHS Compliant*** * No mounting ends

Fig.	No. of Contacts	Dimension – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
				.500" Single Row, PCB Tri-Barrier Terminal Strip, 600V — RoHS Compliant				
2	3	1.00 (25.4)	1.61 (40.9)	WM5754-ND	8.65	7.64	5.09	38660-7803
	4	1.50 (38.1)	2.11 (53.6)	WM5755-ND	10.99	9.70	6.47	38660-7804
	5	2.00 (50.8)	2.61 (66.3)	WM5756-ND	13.39	11.82	7.88	38660-7805
	6	2.50 (63.5)	3.11 (79.0)	WM5757-ND	15.74	13.89	9.26	38660-7806
	7	3.00 (76.2)	3.61 (91.7)	WM5758-ND	18.08	15.96	10.64	38660-7807
				.375" Double Row Low Profile Barrier Terminal Strip				
3A	2	1.41 (35.8)	1.13 (28.7)	WM5759-ND	1.68	1.49	.99	38770-0102
	3	1.78 (45.2)	1.50 (38.1)	WM5760-ND◆	2.16	1.91	1.28	38770-0103
	4	2.16 (54.9)	1.88 (47.8)	WM5761-ND◆	2.76	2.44	1.63	38770-0104
	5	2.53 (64.3)	2.25 (57.2)	WM5762-ND◆	3.36	2.97	1.98	38770-0105
	6	2.91 (73.9)	2.63 (66.8)	WM5763-ND◆	3.84	3.40	2.27	38770-0106
	7	3.28 (83.3)	3.00 (76.3)	WM5764-ND◆	4.38	3.87	2.58	38770-0107
	8	3.66 (93.1)	3.38 (85.9)	WM5765-ND◆	4.99	4.40	2.94	38770-0108
	10	4.41 (112)	4.13 (105)	WM5766-ND◆	6.13	5.41	3.61	38770-0110
	12	5.16 (131)	4.88 (124)	WM5767-ND◆	7.21	6.36	4.24	38770-0112
	13	5.53 (140)	5.25 (133)	WM5768-ND◆	7.63	6.74	4.49	38770-0113
	14	5.91 (150)	5.63 (143)	WM5769-ND◆	8.17	7.21	4.81	38770-0114
	16	6.66 (169)	6.38 (162)	WM5770-ND◆	9.25	8.17	5.45	38770-0116
	18	7.41 (188)	7.13 (181)	WM5771-ND◆	10.33	9.12	6.08	38770-0118
	20	8.16 (207)	7.88 (200)	WM5772-ND◆	11.41	10.07	6.72	38770-0120
	30	11.91 (303)	11.63 (295)	WM5773-ND	16.76	14.79	9.86	38770-0130
				.375" Double Row Barrier Terminal Strip				
3B	2	1.41 (35.8)	1.13 (28.7)	WM5774-ND◆	1.98	1.75	1.17	38760-0102
	3	1.78 (45.2)	1.50 (38.1)	WM5775-ND◆	2.16	1.91	1.28	38760-0103

.375" Double Row Barrier Terminal Strip

Same as the Low Profile except the CSA ratings Class B & C: 20Amps @ 300V 14AWG

.438" Double Row Barrier Terminal Strip

Ratings: #6-32 Binding Head Screw. UL: Class B & C 15Amps @ 300V 14AWG CSA: Class B & C 20Amps @ 300V 14AWG **Mechanical:** Torque - 8in-lbs. Strip length - 5/16: Wire range - 12 to 24AWG **Materials:** Same as the .375" Terminal Strips

.563" Double Row Phenolic Barrier Terminal Strip

Ratings: #8-32 Binding Head Screw: UL & CSA: Class B & C: 30Amps @ 300V 10AWG **Mechanical:** Torque - 16in-lbs. Strip length - 5/16" Wire range - 10 ~ 18AWG **Materials:** Insulator: General purpose phenolic, UL94V-0, black. Terminal: Brass, nickel plate. Screws: #8-32, phillips/slotted, steel, zinc chromate plate

.688" Double Row Phenolic Barrier Terminal Strip

Ratings: #10-32 Screw UL: Class B - 50Amps @ 300V 6AWG (lugged). Class C - 50Amps @ 150V, 6AWG (lugged). CSA: Class B - 50Amps @ 300V 6AWG (lugged). **Mechanical:** Torque - 20 in-lbs. Torque - 22 in-lbs. Strip length - 5/16" Wire range - 6AWG lugged. maximum **Materials:** Same as the .562" except the screw size which is #10-32

Fig.	No. of Contacts	Dimension – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
3B	4	2.16 (54.9)	1.88 (47.8)	WM5776-ND◆	3.48	3.08	2.05	38760-0104
	5	2.53 (64.3)	2.25 (57.2)	WM5777-ND◆	3.36	2.97	1.98	38760-0105
	6	2.91 (73.9)	2.63 (66.8)	WM5778-ND◆	4.93	4.35	2.90	38760-0106
	7	3.28 (83.3)	3.00 (76.3)	WM5779-ND◆	4.44	3.93	2.62	38760-0107
	8	3.66 (93.1)	3.38 (85.9)	WM5780-ND◆	6.31	5.57	3.71	38760-0108
	10	4.41 (112)	4.13 (105)	WM5781-ND◆	6.13	5.41	3.61	38760-0110
	12	5.16 (131)	4.88 (124)	WM5782-ND◆	7.21	6.36	4.24	38760-0112
	14	5.91 (150)	5.63 (143)	WM5783-ND	8.29	7.32	4.88	38760-0114
	16	6.66 (169)	6.38 (162)	WM5784-ND◆	9.37	8.27	5.52	38760-0116
	18	7.41 (188)	7.13 (181)	WM5785-ND◆	10.51	9.28	6.19	38760-0118
	20	8.16 (207)	7.88 (200)	WM5786-ND◆	11.65	10.29	6.86	38760-0120
	22	8.91 (226)	8.63 (219)	WM5787-ND◆	12.73	11.24	7.50	38760-0122
	24	9.66 (245)	9.38 (238)	WM5788-ND	13.82	12.19	8.13	38760-0124
	30	11.91 (303)	11.63 (295)	WM5789-ND◆	17.06	15.06	10.04	38760-0130
				.438" Double Row Barrier Terminal Strip — RoHS Compliant				
4	2	1.63 (41.4)	1.31 (33.3)	WM5790-ND	2.10	1.86	1.24	38780-0102
	3	2.06 (52.3)	1.75 (44.5)	WM5791-ND	2.88	2.55	1.70	38780-0103
	4	2.50 (63.5)	2.19 (55.6)	WM5792-ND	3.72	3.29	2.20	38780-0104
	5	2.94 (74.7)	2.63 (66.8)	WM5793-ND	4.51	3.98	2.65	38780-0105
	6	3.38 (85.9)	3.06 (77.7)	WM5794-ND	5.29	4.67	3.11	38780-0106
	7	3.81 (96.8)	3.50 (88.9)	WM5795-ND	6.13	5.41	3.61	38780-0107
	8	4.25 (108)	3.94 (100)	WM5796-ND	6.85	6.05	4.03	38780-0108
	10	5.13 (130)	4.81 (122)	WM5797-ND	8.47	7.48	4.99	38780-0110
	12	6.00 (152)	5.69 (145)	WM5798-ND	10.09	8.91	5.94	38780-0112
	14	6.88 (175)	6.56 (167)	WM5799-ND	11.53	10.18	6.79	38780-0114
	16	7.75 (197)	7.44 (189)	WM5800-ND	13.27	11.72	7.81	38780-0116
	18	8.63 (219)	8.31 (211)	WM5801-ND	14.90	13.15	8.77	38780-0118
	20	9.50 (241)	9.19 (233)	WM5802-ND	16.40	14.47	9.65	38780-0120
				.563" Double Row Phenolic Barrier Terminal Strip with Closed Bottom				
5	2	2.09 (53.9)	1.69 (42.9)	WM5803-ND◆	3.72	3.29	2.20	38211-0102
	3	2.66 (67.6)	2.25 (57.2)	WM5804-ND◆	5.53	4.88	3.26	38211-0103
	4	3.22 (81.8)	2.81 (71.4)	WM5805-ND◆	6.61	5.83	3.89	38211-0104
	5	3.78 (96.0)	3.38 (85.9)	WM5806-ND◆	8.23	7.27	4.85	38211-0105
	6	4.34 (110)	3.94 (100)	WM5807-ND◆	9.55	8.43	5.62	38211-0106
	7	4.91 (125)	4.50 (114)	WM5808-ND◆	10.45	9.23	6.15	38211-0107
	8	5.47 (139)	5.06 (129)	WM5809-ND	11.29	9.97	6.65	38211-0108
	10	6.59 (167)	6.19 (157)	WM5810-ND◆	14.72	12.99	8.66	38211-0110
	12	7.72 (196)	7.31 (186)	WM5811-ND◆	17.72	15.64	10.43	38211-0112
	16	9.97 (253)	9.56 (243)	WM5812-ND◆	23.01	20.30	13.54	38211-0116
	20	12.22 (310)	11.81 (300)	WM5813-ND◆	29.19	25.76	17.18	38211-0120
	24	14.47 (368)	14.06 (357)	WM5814-ND◆	34.66	30.59	20.39	38211-0124
				.688" Double Row Phenolic Barrier Terminal Strip				
6	2	2.50 (63.5)	2.06 (52.4)	WM5815-ND◆	7.75	6.84	4.56	38280-0102
	3	3.19 (81)	2.75 (69.9)	WM5816-ND◆	11.05	9.76	6.51	38280-0103
	4	3.88 (98.4)	3.44 (87.3)	WM5817-ND◆	14.42	12.72	8.48	38280-0104
	5	4.56 (116)	4.13 (105)	WM5818-ND◆	17.72	15.64	10.43	38280-0105
	6	5.25 (133)	4.81 (122)	WM5819-ND	22.10	19.51	13.01	38280-0106
	10	8.00 (203)	7.56 (192)	WM5821-ND◆	34.00	30.00	20.00	38280-0110
	12	9.38 (238)	8.94 (227)	WM5822-ND◆	41.09	36.26	24.17	38280-0112

◆ ***RoHS Compliant***

Style 1, 2, and 3 Solder Terminals

Series	Style	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
.438	2	WM5922-ND◆	.37	3.30	22.00	38002-0255
	3	WM5923-ND	.24	2.09	13.94	38002-0257
.563	1	WM5924-ND◆	.44	3.88	25.89	38002-0321
	2	WM5925-ND	.52	4.55	30.32	38002-0323
	3	WM5926-ND	.54	4.80	31.99	38002-0325

◆ ***RoHS Compliant***

Style 1

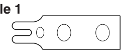

Style 2

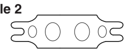

Style 3

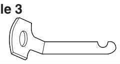

molex® Barrier and Eurostyle® (ESE) Terminal Blocks

Fig. 1

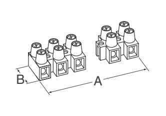

Fig. 2

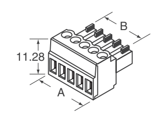

Fig. 3

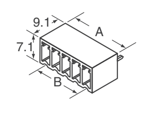

Fig. 4

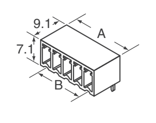

Fig. 5

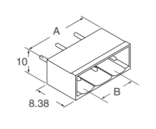

Fig. 6

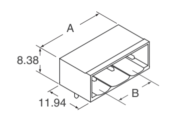

Fig. 7

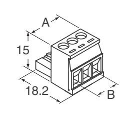

Fig. 8

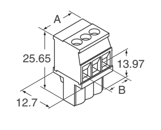

Fig. 9

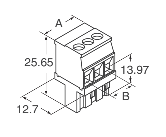

Fig. 10

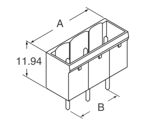

Fig. 11

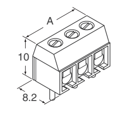

Fig. 12

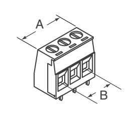

Fig. 13

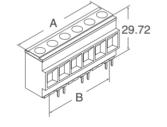

60 Amps/Line

Fig. 14

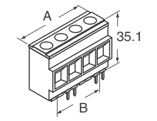

90 Amps/Line

8.00mm Two-Screw Terminal Strip:

Ratings: UL: Class C: 20Amps @ 600V 12AWG; CSA: 15Amps @ 300V 16AWG; Safety Agencies: UL File No. E48521, CSA: File No. 25562 **Mechanical:** Torque: 4.4 inches/pound; Wire Range: 12 ~ 22AWG **Materials:** Insulator: Nylon 6.6, UL94V-2, white; Inserts: Brass; Wire protector: stainless steel; Screws: Zinc-plated steel; Terminals: Nickel-plated brass

10.00mm Two-Screw Terminal Strip:

Ratings: Voltage: 300V; Current: 30A; Safety Agencies: UL: File No. E48521, CSA: 025562 **Mechanical:** Torque: 7 inches/pound; Wire Range: 10 ~ 18AWG **Materials:** Same as 8.00mm

12.00mm Two-Screw Terminal Strip:

Ratings: UL: 40A Max, 600V 10AWG CSA: 40A Max, 600V 8AWG **Mechanical:** Torque: 7 inches/pound; Wire Range 8 ~ 20AWG **Materials:** Same as 8.00mm & 10.00mm

15.00mm Two-Screw Terminal Strip:

Ratings: UL: 63A Max, 600V 10AWG CSA: 40A Max, 600V 8AWG **Mechanical:** Torque: 18.5 inches/pound; Wire Range 6 ~ 14AWG **Materials:** Same as 8.00mm, 10.00mm and 12.00mm

3.50mm Pitch Eurostyle Pluggable PCB Terminal Block:

Ratings: UL: 8A @ 300V, 16~24AWG **Materials:** Housing: Polyamide 6/6; UL94V-0 Black

3.50mm Pitch Beau® Eurostyle Pluggable PCB Terminal Block:

Ratings: UL: File No. E48521, Guide No. XCFR2 **Electrical:** Voltage: 300V; Maximum Current: 10Amp; Insulation Resistance: >5,000MΩ **Mechanical:** Torque: 2.5 inches/pound, .31Nm. Operating Temperature: 140°C **Physical:** Housing: Polyamide 4/6, black; Screws: M2 Cheesehead, Silicon Bronze; Screw Plating: Nickel; Contacts: Beryllium Copper; Contact Plating: Hot Tin Dip; Pressure Clamp: Yellow Brass; Pressure Clamp Plating: Nickel; Wire Range: 16 to 24 AWG, 1.0 to $0.2mm^2$

3.50mm Pitch Eurostyle PCB Header:

Ratings: UL: 8A @ 300V **Materials:** Housing: Polyamide 6/6; UL94V-0 Black

3.50mm Pitch Beau Eurostyle High Temperature PCB Header:

Physical: Header Pins: Brass, 3/4 Hard; Header Pin Plating: Tin

3.50mm Eurostyle Fixed PCB Terminal Block:

Ratings:UL and CSA: Class B: 8 Amps @ 150V 16AWG; Safety Agencies: UL & CSA are pending **Mechanical:** Torque: 2 inches/pound, Strip length: .250" (6mm), Wire Range: 16 ~ 26AWG **Materials:** Insulator: Polyamide, UL94V-0, green; Terminal: Brass, tin plate; Clamp: Brass, nickel plate; Screws: Steel, zinc chromate plate

5.00mm Eurostyle Economy Screw Terminal Block:

Ratings: UL and CSA: 13.5A @ 300V 15AWG **Mechanical:** Torque: 5.3 inches/pound; Wire Range: 15 ~ 30 AWG **Materials:** Insulator: Polyamide 6.6 UL94V-0; Terminal: Tin Plated Copper; Screw: Nickel plated copper; Cage Clamp: Nickel Plated Copper

5.00mm and 5.08mm Eurostyle Pluggable PCB Terminal Block:

Ratings: UL: Class B: 15Amps @ 300V 12AWG; Class C: 10Amps @ 300V 12AWG CSA: Class B: 15Amps @ 300V 12AWG; Safety Agencies: UL: File No. E48521; CSA: File No. 25562 **Mechanical:** Torque: 5 inches/pound; Strip length: .250" (6mm); Wire Range: 12 ~ 26AWG **Materials:** Insulator: Polyamide, UL94V-0, black; Pressure Clamp: Brass, nickel plate; Contacts: Phosphor bronze, tin plate; Header pins: Brass, tin plate; Screws: 2.5mm, steel, zinc chromate plates

5.00mm and 5.08mm Eurostyle Pluggable PCB Header, Closed Ends:

Ratings: UL and CSA - Class B: 15Amps @ 300V, UL: Class C: 10Amps @ 300V File No. E150931 **Materials:** Nylon 6.6, UL94V-0, black; Header pins: Brass, tin plate

10.16mm Eurostyle High Power Fixed Blocks:

Ratings: UL and CSA Agencies: UL: File No. E48521, Guide No. XCFR2; CSA: File No. 025562 **Electrical:** Voltage: 600V; Maximum Current: 60Amp; Insulation Resistance: > 50,000GΩ **Mechanical:** Maximum Tightening Torque: 18 inches/pound 2.03 Nm.; Operating Temperature: 130°C **Physical:** Insulator: PBT UL94V-0, Black; Screws: Bronze; Screw Plating: Tin; Pressure Clamp: Brass; Pressure Clamp Plating: Nickel; Contacts: Copper; Contact Plating: Tin

15.00mm Eurostyle High Power Fixed Blocks:

Ratings: UL and CSA Agencies: UL: File No. E48521, Guide No. XCFR2; CSA: File No. 025562 **Electrical:** Voltage: 600V, Maximum Current: 90Amp; Insulation Resistance: > 50,000GΩ **Mechanical:** Maximum Tightening Torque: 24 inches/pound 2.71 Nm.; Operating Temperature: 130°C **Physical:** Insulator: PBT UL94V-0, Black; Screws: Bronze; Screw Plating: Tin; Pressure Clamp: Brass; Pressure Clamp Plating: Nickel; Contacts: Copper; Contact Plating: Tin

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Fig. 1 — 8.00mm Two-Screw Terminal Strip, with Wire Protector — RoHS Compliant							
2	13.46	18.2	WM15900-ND	1.08	.96	.64	39100-0802
3	21.46	18.2	WM15901-ND	1.56	1.38	.92	39100-0803
4	29.46	18.2	WM15902-ND	2.16	1.91	1.28	39100-0804
6	45.47	18.2	WM15904-ND	3.06	2.71	1.81	39100-0806
6	45.47	18.2	WM15905-ND‡	2.94	2.60	1.74	39100-0906
12	93.47	18.2	WM15907-ND	5.59	4.93	3.29	39100-0812
Fig. 1 — 10.00mm Two-Screw Terminal Strip, with Wire Protector — RoHS Compliant							
2	17.00	18.8	WM7722-ND	1.32	1.17	.78	39100-1002
3	27.00	18.8	WM15908-ND	1.92	1.70	1.14	39100-1003
3	27.00	18.8	WM15909-ND‡	1.92	1.70	1.14	39100-1103
4	37.00	18.8	WM15910-ND	2.52	2.23	1.49	39100-1004
5	47.00	18.8	WM15911-ND	3.24	2.87	1.91	39100-1005
6	57.00	18.8	WM15912-ND	3.72	3.29	2.20	39100-1006
8	77.00	18.8	WM15913-ND	5.05	4.46	2.97	39100-1008
9	87.00	18.8	WM15918-ND ***NEW!***	5.41	4.77	3.18	39100-1009
Fig. 1 — 12.00mm Two-Screw Terminal Strip, with Wire Protector — RoHS Compliant							
2	20.00	23.2	WM7723-ND	1.44	1.28	.85	39100-1202
3	32.00	23.2	WM7724-ND	2.04	1.81	1.21	39100-1203
4	44.00	23.2	WM7725-ND	2.64	2.34	1.56	39100-1204
6	68.00	23.2	WM7726-ND	4.02	3.56	2.37	39100-1206
10	116.00	23.2	WM15916-ND	6.79	5.99	4.00	39100-1210
12	140.00	23.2	WM15917-ND	7.33	6.47	4.32	39100-1212
Fig. 1 — 15.00mm Two-Screw Terminal Strip, with Wire Protector — RoHS Compliant							
2	25.00	28	WM7727-ND	3.06	2.71	1.81	39100-1502
3	40.00	28	WM7728-ND	4.57	4.03	2.69	39100-1503
4	55.00	28	WM7729-ND	5.89	5.20	3.47	39100-1504
6	85.00	28	WM7730-ND	8.71	7.69	5.13	39100-1506
12	175.0	28	WM7731-ND	16.04	14.16	9.44	39100-1512
Fig. 2 — 3.50mm Eurostyle Pluggable Terminal Blocks — RoHS Compliant							
2	7.80	3.5	WM7732-ND	2.46	2.18	1.45	39500-0002
3	11.30	7.0	WM7733-ND	3.66	3.24	2.16	39500-0003
4	14.80	10.5	WM7734-ND	3.30	2.92	1.95	39500-0004
5	18.30	14.0	WM7735-ND	6.01	5.30	3.54	39500-0005
6	21.8	17.5	WM7736-ND	7.21	6.36	4.24	39500-0006
7	25.3	21.0	WM7737-ND	4.75	4.19	2.80	39500-0007
8	28.8	24.5	WM7738-ND	9.67	8.54	5.69	39500-0008
9	32.3	28.0	WM7739-ND	10.87	9.60	6.40	39500-0009
10	35.8	31.5	WM7740-ND	12.07	10.66	7.11	39500-0010
11	39.3	35.0	WM7741-ND	13.21	11.66	7.78	39500-0011
12	42.8	38.5	WM7742-ND	14.48	12.78	8.52	39500-0012
13	46.3	42.0	WM7743-ND	15.68	13.84	9.23	39500-0013
14	49.8	45.5	WM7744-ND	16.88	14.90	9.93	39500-0014
15	53.3	49.0	WM7745-ND	18.08	15.96	10.64	39500-0015
16	56.8	52.5	WM7746-ND	19.28	17.02	11.35	39500-0016
17	60.3	56.0	WM7747-ND	20.42	18.02	12.02	39500-0017
18	63.8	59.5	WM7748-ND	21.68	19.14	12.76	39500-0018
19	67.3	63.0	WM7749-ND	22.89	20.20	13.47	39500-0019
20	70.8	66.5	WM7750-ND	24.09	21.26	14.17	39500-0020
Fig. 2 — 3.50mm Eurostyle Pluggable Terminal Blocks, 180°							
2	7.11	3.50	WM5605-ND◆	8.14	7.18	4.79	39351-0002
6	21.08	17.50	WM5609-ND◆	20.74	18.30	12.20	39351-0006
7	24.64	21.00	WM5610-ND◆	24.28	21.43	14.29	39351-0007
9	31.50	28.00	WM5612-ND	30.01	26.48	17.66	39351-0009
10	35.05	31.50	WM5613-ND◆	33.90	29.92	19.95	39351-0010
11	38.61	35.00	WM5614-ND	36.73	32.42	21.61	39351-0011
14	49.02	45.50	WM5617-ND◆	46.50	41.03	27.36	39351-0014
15	52.58	50.00	WM5618-ND	49.33	43.53	29.02	39351-0015
17	59.44	56.00	WM5620-ND	55.07	48.59	32.40	39351-0017
19	66.55	63.00	WM5622-ND	60.80	53.65	35.77	39351-0019
Fig. 3 — 3.50mm Eurostyle PCB Header, Closed Ends, Vertical — RoHS Compliant							
2	8.4	3.5	WM7751-ND	.90	.80	.53	39501-1002
3	11.9	7.0	WM7752-ND	1.32	1.17	.78	39501-1003
4	15.4	10.5	WM7753-ND	1.80	1.59	1.06	39501-1004
5	18.9	14.0	WM7754-ND	2.22	1.97	1.31	39501-1005
6	22.4	17.5	WM7755-ND	2.70	2.39	1.59	39501-1006
7	25.9	21.0	WM7756-ND	3.12	2.76	1.84	39501-1007
8	29.4	24.5	WM7757-ND	3.60	3.18	2.12	39501-1008
9	32.9	28.0	WM7758-ND	4.02	3.56	2.37	39501-1009
10	36.4	31.5	WM7759-ND	4.51	3.98	2.65	39501-1010
11	39.9	35.0	WM7760-ND	4.93	4.35	2.90	39501-1011
12	43.4	38.5	WM7761-ND	5.41	4.77	3.18	39501-1012
13	46.9	42.0	WM7762-ND	5.83	5.15	3.43	39501-1013
14	50.4	45.5	WM7763-ND	6.31	5.57	3.71	39501-1014
15	53.9	49.0	WM7764-ND	6.73	5.94	3.96	39501-1015
16	57.4	52.5	WM7765-ND	7.21	6.36	4.24	39501-1016
17	60.9	56.0	WM7766-ND	7.63	6.74	4.49	39501-1017
18	64.4	59.5	WM7767-ND	8.11	7.16	4.77	39501-1018
19	67.9	63.0	WM7768-ND	8.53	7.53	5.02	39501-1019
20	71.4	66.5	WM7769-ND	9.01	7.95	5.30	39501-1020
Fig. 3 — 3.50mm Eurostyle High Temperature PCB Header, Closed Ends, Vertical							
2	7.51	3.50	WM5624-ND◆	1.20	1.07	.71	39353-0002-P
5	18.01	14.00	WM5627-ND◆	2.55	2.25	1.50	39353-0005
14	49.51	45.50	WM5636-ND	7.29	6.44	4.29	39353-0014
15	53.01	50.00	WM5637-ND	7.93	7.00	4.67	39353-0015
17	60.01	56.00	WM5639-ND	8.99	7.94	5.29	39353-0017
19	67.01	63.00	WM5641-ND	10.05	8.87	5.92	39353-0019
Fig. 4 — 3.50mm Eurostyle PCB Header, Closed Ends, Right Angle — RoHS Compliant							
2	8.4	3.5	WM7770-ND	.90	.80	.53	39502-1002
3	11.9	7.0	WM7771-ND	1.32	1.17	.78	39502-1003
4	15.4	10.5	WM7772-ND	1.80	1.59	1.06	39502-1004
5	18.9	14.0	WM7773-ND	2.22	1.97	1.31	39502-1005
6	22.4	17.5	WM7774-ND	2.70	2.39	1.59	39502-1006
7	25.9	21.0	WM7775-ND	3.12	2.76	1.84	39502-1007
8	29.4	24.5	WM7776-ND	3.60	3.18	2.12	39502-1008
9	32.9	28.0	WM7777-ND	4.02	3.56	2.37	39502-1009
10	36.4	31.5	WM7778-ND	4.51	3.98	2.65	39502-1010
11	39.9	35.0	WM7779-ND	4.93	4.35	2.90	39502-1011
12	43.4	38.5	WM7780-ND	5.41	4.77	3.18	39502-1012

◆ ***RoHS Compliant*** ‡ Low Profile *(Continued)*

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
13	46.9	42.0	WM7781-ND	5.83	5.15	3.43	39502-1013
14	50.4	45.5	WM7782-ND	6.31	5.57	3.71	39502-1014
15	53.9	49.0	WM7783-ND	6.73	5.94	3.96	39502-1015
16	57.4	52.5	WM7784-ND	7.21	6.36	4.24	39502-1016
17	60.9	56.0	WM7785-ND	7.63	6.74	4.49	39502-1017
18	64.4	59.5	WM7786-ND	8.11	7.16	4.77	39502-1018
19	67.9	63.0	WM7787-ND	8.53	7.53	5.02	39502-1019
20	71.4	66.5	WM7788-ND	9.01	7.95	5.30	39502-1020

Fig. 4 — 3.50mm Eurostyle High Temperature PCB Header, Closed Ends, Right Angle

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
3	11.01	7.00	WM5644-ND◆	2.55	2.25	1.50	39355-0003
5	18.01	14.00	WM5646-ND	3.68	3.25	2.17	39355-0005-P
8	28.51	24.50	WM5649-ND◆	5.45	4.81	3.21	39355-0008
13	46.01	42.00	WM5654-ND	9.27	8.19	5.46	39355-0013
14	49.51	45.50	WM5655-ND◆	9.77	8.62	5.75	39355-0014
16	56.51	52.50	WM5657-ND	10.62	9.37	6.25	39355-0016
17	60.01	56.00	WM5658-ND	11.04	9.75	6.50	39355-0017
18	63.51	59.50	WM5659-ND	10.34	9.13	6.09	39355-0018
19	67.01	63.00	WM5660-ND	11.96	10.56	7.04	39355-0019
20	70.51	66.50	WM5661-ND	12.39	10.93	7.29	39355-0020

Fig. 5 — 5.00mm Eurostyle Pluggable PCB Header, Closed Ends, Vertical

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
9	46.9	40	WM5879-ND	3.54	3.13	2.09	39870-0509

Fig. 6 — 5.00mm Eurostyle Pluggable PCB Header, Closed Ends, Right Angle — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	12.0	5.0	WM7809-ND	.78	.69	.46	39522-1002
3	17.0	10.0	WM7810-ND	1.14	1.01	.68	39522-1003
4	22.0	15.0	WM7811-ND	1.56	1.38	.92	39522-1004
5	27.0	22.0	WM7812-ND	1.98	1.75	1.17	39522-1005
6	32.0	25.0	WM7813-ND	2.34	2.07	1.38	39522-1006
7	37.0	30.0	WM7814-ND	2.70	2.39	1.59	39522-1007
8	42.0	35.0	WM7815-ND	3.06	2.71	1.81	39522-1008
9	47.0	40.0	WM7816-ND	3.54	3.13	2.09	39522-1009
10	52.0	45.0	WM7817-ND	3.90	3.45	2.30	39522-1010
12	62.0	55.0	WM7818-ND	4.69	4.14	2.76	39522-1012

Fig. 6 — 5.08mm Eurostyle Pluggable PCB Header, Closed Ends, Right Angle — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	12.16	5.08	WM7845-ND	.78	.69	.46	39532-1002
3	17.24	10.16	WM7846-ND	1.14	1.01	.68	39532-1003
4	22.32	15.24	WM7847-ND	1.56	1.38	.92	39532-1004
5	27.4	20.32	WM7848-ND	1.98	1.75	1.17	39532-1005
6	32.48	25.4	WM7849-ND	2.34	2.07	1.38	39532-1006
8	42.64	35.56	WM7850-ND	3.06	2.71	1.81	39532-1008
10	52.8	45.72	WM7851-ND	3.90	3.45	2.30	39532-1010
12	62.96	55.88	WM7852-ND	4.69	4.14	2.76	39532-1012

Fig. 7 — 5.00mm Eurostyle Pluggable PCB Terminal Blocks, Right Angle — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	10.0	5.0	WM7789-ND	2.04	1.81	1.21	39520-0002
3	15.0	10.0	WM7790-ND	3.06	2.71	1.81	39520-0003
4	20.0	15.0	WM7791-ND	4.08	3.61	2.41	39520-0004
5	25.0	20.0	WM7792-ND	5.11	4.51	3.01	39520-0005
6	30.0	25.0	WM7793-ND	6.13	5.41	3.61	39520-0006
7	35.0	30.0	WM7794-ND	7.15	6.31	4.21	39520-0007
8	40.0	35.0	WM7795-ND	8.11	7.16	4.77	39520-0008
9	45.0	40.0	WM7796-ND	9.13	8.06	5.38	39520-0009
10	50.0	45.0	WM7797-ND	10.21	9.01	6.01	39520-0010
12	60.0	55.0	WM7798-ND	12.25	10.82	7.21	39520-0012

Fig. 7 — 5.08mm Eurostyle Pluggable PCB Terminal Blocks, Right Angle — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	10.16	5.08	WM7819-ND	2.04	1.81	1.21	39530-0002
3	15.24	10.16	WM7820-ND	3.06	2.71	1.81	39530-0003
4	20.32	15.24	WM7953-ND	4.08	3.61	2.41	39530-0004
5	25.4	20.32	WM7821-ND	5.11	4.51	3.01	39530-0005
6	30.48	25.4	WM7822-ND	6.13	5.41	3.61	39530-0006
8	40.64	35.56	WM7823-ND	8.11	7.16	4.77	39530-0008
10	50.8	45.72	WM7824-ND	10.21	9.01	6.01	39530-0010
12	60.96	55.88	WM7825-ND	12.25	10.82	7.21	39530-0012

Fig. 8 — 5.08mm Eurostyle Pluggable PCB Terminal Blocks, Vertical — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
8	40.5	35.6	WM5840-ND	19.58	17.28	11.52	39860-0208
10	50.7	45.7	WM5841-ND	21.80	19.24	12.83	39860-0210

Fig. 9 — 5.08mm Eurostyle Pluggable PCB Terminal Blocks, Vertical (Front Wire Entry) — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	10.16	5.08	WM7826-ND	1.26	1.12	.75	39533-2002
3	15.24	10.16	WM7827-ND	1.86	1.65	1.10	39533-2003
4	20.32	15.24	WM7828-ND	2.46	2.18	1.45	39533-2004
5	25.4	20.32	WM7829-ND	6.49	5.73	3.82	39533-2005
6	30.48	25.4	WM7830-ND	3.72	3.29	2.20	39533-2006
8	40.64	35.56	WM7831-ND	10.33	9.12	6.08	39533-2008
10	50.8	45.72	WM7832-ND	6.19	5.46	3.64	39533-2010

Fig. 9 — 5.08mm Eurostyle Pluggable PCB Terminal Blocks, Vertical (Rear Wire Entry) — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	10.16	5.08	WM7833-ND	2.58	2.28	1.52	39533-3002
3	15.24	10.16	WM7834-ND	3.90	3.45	2.30	39533-3003
4	20.32	15.24	WM7835-ND	5.17	4.56	3.04	39533-3004
6	30.48	25.4	WM7836-ND	7.75	6.84	4.56	39533-3006

Fig. 9 — 5.08mm Eurostyle Pluggable PCB Terminal Blocks, Vertical — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
6	30.4	25.4	WM5845-ND	7.90	6.97	4.65	39860-0306

Fig. 10 — 5.00mm Eurostyle Pluggable PCB Header, Closed Ends, Vertical — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	12.0	5.0	WM7799-ND	.78	.69	.46	39521-1002
3	17.0	10.0	WM7800-ND	1.14	1.01	.68	39521-1003
4	22.0	15.0	WM7801-ND	1.56	1.38	.92	39521-1004
5	27.0	20.0	WM7802-ND	1.98	1.75	1.17	39521-1005
6	32.0	25.0	WM7803-ND	2.34	2.07	1.38	39521-1006
7	37.0	30.0	WM7804-ND	2.70	2.39	1.59	39521-1007
8	42.0	35.0	WM7805-ND	3.06	2.71	1.81	39521-1008
9	47.0	40.0	WM7806-ND	3.54	3.13	2.09	39521-1009
10	52.0	45.0	WM7807-ND	3.90	3.45	2.30	39521-1010
12	62.0	55.0	WM7808-ND	3.90	3.45	2.30	39521-1012

Fig. 10 — 5.08mm Eurostyle Pluggable PCB Header, Closed Ends, Vertical — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	12.16	5.08	WM7837-ND	.78	.69	.46	39531-1002
3	17.24	10.16	WM7838-ND	1.14	1.01	.68	39531-1003
4	22.32	15.24	WM7839-ND	1.56	1.38	.92	39531-1004
5	27.4	20.32	WM7840-ND	1.98	1.75	1.17	39531-1005
6	32.48	25.4	WM7841-ND	2.34	2.07	1.38	39531-1006
8	42.64	35.56	WM7842-ND	3.06	2.71	1.81	39531-1008
10	52.8	45.72	WM7843-ND	3.90	3.45	2.30	39531-1010
12	62.96	55.88	WM7844-ND	4.69	4.14	2.76	39531-1012

Fig. 10 — 5.08mm Eurostyle Pluggable PCB Header, Closed Ends, Vertical

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
10	52.7	45.7	WM5852-ND	3.90	3.45	2.30	39860-0510

Fig. 11 — 5.00mm Eurostyle Economy Screw Terminal Blocks — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
3	15.0	—	WM15826-ND	1.32	1.17	.78	39890-0303

Fig. 12 — 5.08mm Eurostyle Pluggable PCB Terminal Blocks, Right Angle — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	10.16	5.08	WM7853-ND	1.32	1.17	.78	39544-3002
3	15.24	10.16	WM7854-ND	1.98	1.75	1.17	39544-3003
4	20.32	15.24	WM7855-ND	2.64	2.34	1.56	39544-3004
5	25.4	20.32	WM7856-ND	3.30	2.92	1.95	39544-3005
6	30.48	25.4	WM7857-ND	3.96	3.50	2.34	39544-3006
8	40.64	35.56	WM7858-ND	5.29	4.67	3.11	39544-3008
10	50.8	45.72	WM7859-ND	4.14	3.66	2.44	39544-3010

Fig. 12 — 3.50mm Eurostyle Pluggable Low Profile Fixed Terminal Blocks, Right Angle — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	7.0	3.5	WM7877-ND	.96	.85	.57	39357-0002
3	10.5	7.0	WM7878-ND	1.56	1.38	.92	39357-0003
4	14.0	10.5	WM7860-ND	2.10	1.86	1.24	39357-0004
5	17.5	14.0	WM7861-ND	2.58	2.28	1.52	39357-0005
6	21.0	17.5	WM7862-ND	3.12	2.76	1.84	39357-0006
7	24.5	21.0	WM7863-ND	3.66	3.24	2.16	39357-0007
8	28.0	24.5	WM7864-ND	4.14	3.66	2.44	39357-0008
9	31.5	28.0	WM7865-ND	4.69	4.14	2.76	39357-0009
10	35.0	31.5	WM7866-ND	5.23	4.62	3.08	39357-0010
11	38.5	35.0	WM7867-ND	5.71	5.04	3.36	39357-0011
12	42.0	38.5	WM7868-ND	6.25	5.52	3.68	39357-0012
13	45.5	42.0	WM7869-ND	6.73	5.94	3.96	39357-0013
14	49.0	45.5	WM7870-ND	6.61	5.83	3.89	39357-0014
15	52.5	49.0	WM7871-ND	7.81	6.89	4.60	39357-0015
16	56.0	52.5	WM7872-ND	8.29	7.32	4.88	39357-0016
17	59.5	56.0	WM7873-ND	7.99	7.05	4.70	39357-0017
18	63.0	59.5	WM7874-ND	9.37	8.27	5.52	39357-0018
19	66.5	63.0	WM7875-ND	8.95	7.90	5.27	39357-0019
20	70.0	66.5	WM7876-ND	10.39	9.17	6.12	39357-0020

Fig. 13 — 10.16mm Eurostyle High Power Fixed Blocks — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	21.84	10.16	WM5964-ND	6.75	6.08	5.40	39910-0102
3	32.00	20.32	WM5965-ND	8.87	7.99	7.10	39910-0103
4	42.16	30.48	WM5966-ND	12.12	10.91	9.70	39910-0104
6	62.48	50.80	WM5967-ND	17.14	15.43	13.71	39910-0106
8	82.80	71.12	WM5968-ND	22.12	19.91	17.70	39910-0108

Fig. 14 — 15.00mm Eurostyle High Power Fixed Blocks — RoHS Compliant

No. of Con.	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
3	44.20	30.00	WM6051-ND	10.49	9.45	8.40	39920-0503
4	59.18	45.01	WM6052-ND	12.68	11.42	10.15	39920-0504
6	89.15	75.01	WM6053-ND	17.17	15.46	13.74	39920-0506
8	119.13	104.9	WM5973-ND	20.86	18.78	16.69	39920-0108
8	119.13	105.0	WM6054-ND	21.80	19.63	17.45	39920-0508

◆ RoHS Compliant ‡ Low Profile

DIN Rail Mounted Interface Modules

Fig. 1

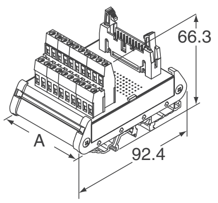

Fig. 2

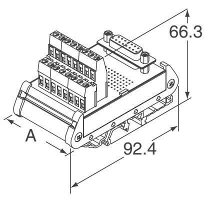

Interface modules are DIN Rail mounted, PCB-based interconnect devices that provide an expedient and simplistic means to transition between system I/O and field equipment. Modules incorporate terminal blocks and other high-density electronic connectors and are provided with pre-drilled component holes allowing for the addition of other electronic components, if necessary. Typical modifications include the addition of resistors, capacitors, diodes or LEDs for additional functionality.

Fig.	No. of Contacts	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Ribbon Cable to 5.08mm Fixed Eurostyle® Terminal Block							
1	14	50.8	WM5451-ND	63.50	53.98	47.28	39170-1014
	20	61.0	WM5452-ND	70.55	59.97	52.52	39170-1020
	34	95.0	WM5453-ND	98.12	83.41	73.05	39170-1034
	50	135.6	WM5454-ND	126.18	107.26	93.94	39170-1050
Female D-Sub Connector to 5.08mm Fixed Eurostyle® Terminal Block							
2	9	39.4	WM5455-ND	59.80	50.83	44.52	39170-3009
	15	54.4	WM5456-ND	68.36	58.11	50.89	39170-3015
	25	79.8	WM5457-ND	81.59	69.35	60.74	39170-3025

Terminals, Tools, Lugs and Connectors

Insulation Types:
Insulkrimp®: PVC Insulated
Avikrimp®: Nylon Insulated
Nylakrimp®: Nylon Insulated
Krimptite®: Non-insulated

Fig. 1
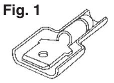
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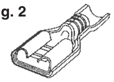
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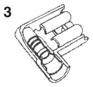
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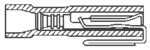
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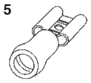
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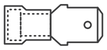
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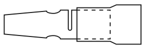
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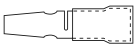
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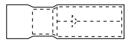
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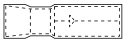
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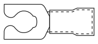
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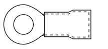
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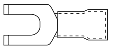
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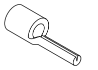
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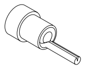
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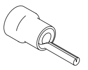
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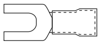
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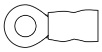
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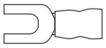
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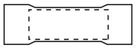
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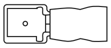
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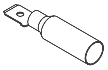
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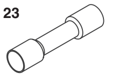
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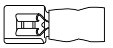
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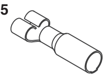
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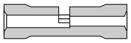
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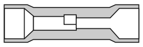
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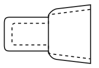
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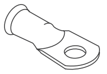
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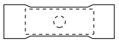
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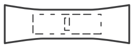
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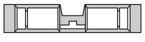
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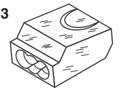
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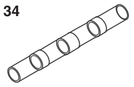

Crimp Tools

Premium
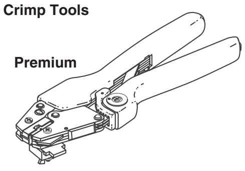
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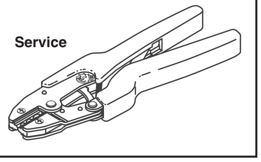

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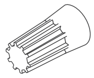
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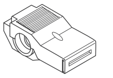
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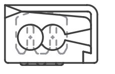
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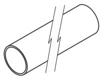

Fully-Insulated Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Molex Part No.
				Avikrimp® - Male (Standard Flare)					
1	22~18 Red	23	.250 (6.35)	.140 (3.56)	WM18225-ND	5.05	40.42	168.43	19001-0001
			.187 (4.75)	.140 (3.56)	WM18226-ND	5.05	40.42	168.43	19001-0003
			.187x.020 (4.75x0.51)	.140 (3.56)	WM18744CT-ND†◊	6.37	50.97	—	19001-0005
			.187x.020 (4.75x0.51)	.140 (3.56)	WM18744TR-ND‡◊		148.50/500		19001-0005
	16~14 Blue	23	.250 (6.35)	.170 (4.32)	WM18227-ND	5.05	40.42	168.43	19001-0006
			.187 (4.75)	.170 (4.32)	WM18228-ND	5.05	40.42	168.43	19001-0008
	12~10 Yellow	4/22	.250 (6.35)	.230 (5.84)	WM18229-ND	6.01	48.11	200.44	19001-0010
				Avikrimp® - Female (Standard Flare)					
2	22~18 Red	22/28	.250 (6.35)	.125 (3.18)	WM18230-ND	4.59	36.73	153.03	19002-0001
			.250x.032 (6.35x0.81)	.125 (3.18)	WM18745CT-ND†◊	5.86	46.85	195.21	19002-0002
			.250x.032 (6.35x0.81)	.125 (3.18)	WM18745TR-ND‡◊		273.00/1,000		19002-0002
			.187 (4.75)	.125 (3.18)	WM18231-ND	4.59	36.73	153.03	19002-0005
			.187x.020 (4.75x0.51)	.125 (3.18)	WM18746CT-ND†◊	5.86	46.85	195.21	19002-0007
			.187x.020 (4.75x0.51)	.125 (3.18)	WM18746TR-ND‡◊		273.00/1,000		19002-0007
		23/28	.187x.032 (4.75x0.81)	.125 (3.18)	WM18757-ND◊	4.05	32.44	135.15	19002-0009
			.110x.020 (2.79x0.51)	.125 (3.18)	WM18758-ND◊	4.11	32.90	137.10	19002-0013
	16~14 Blue	22	.250 (6.35)	.155 (3.94)	WM18232-ND	4.59	36.73	153.03	19002-0024
			.250x.032 (6.35x0.81)	.155 (3.94)	WM18747CT-ND†◊	5.86	46.85	195.21	19002-0025
			.250x.032 (6.35x0.81)	.155 (3.94)	WM18747TR-ND‡◊		273.00/1,000		19002-0025
			.187 (4.75)	.155 (3.94)	WM18233-ND	4.66	37.25	155.23	19002-0028
	12~10 Yellow	22	.250 (6.35)	.245 (6.22)	WM18234-ND	5.47	43.73	182.23	19002-0044
				Avikrimp® - Female (Expanded Flare/Oval Barrel)					
2	12~10 Yellow	22	.250x.032 (6.35x0.81)	.245 (6.22)	WM18748CT-ND†◊	6.64	53.09	—	19002-0045
			.250x.032 (6.35x0.81)	.245 (6.22)	WM18748TR-ND‡◊		155.00/500		19002-0045
				Insulkrimp® - Male (Standard Flare)					
1	22~18 Red	23/29	.250x.032 (6.35x0.81)	.145 (3.68)	WM18761-ND	2.55	20.44	85.16	19004-0001
			.250x.032 (6.35x0.81)	.145 (3.68)	WM18761CT-ND†§	—	47.77	—	19004-0004
			.250x.032 (6.35x0.81)	.145 (3.68)	WM18761TR-ND‡§		104.50/500		19004-0004
	16~14 Blue	23/29	.250x.032 (6.35x0.81)	.170 (4.32)	WM18762-ND	2.55	20.44	85.16	19004-0005
	12~10 Yellow	22/30	.250x.032 (6.35x0.81)	.275 (6.98)	WM18763-ND	3.72	29.72	123.85	19004-0009
				Insulkrimp® - Female (Standard Flare)					
2	26~24 Yellow	36	.250 (6.35)	.075 (1.91)	WM18235-ND	2.18	17.48	72.81	19003-0071
			.187 (4.75)	.075 (1.91)	WM18236-ND	3.03	24.24	101.01	19003-0064
	22~18 Red	15/23	.250 (6.35)	.135 (3.43)	WM18237-ND	2.42	19.35	80.61	19003-0001
			.250x.032 (6.35x0.81)	.135 (3.43)	WM18237CT-ND†§	—	25.56	103.82	19003-0105
			.250x.032 (6.35x0.81)	.135 (3.43)	WM18237TR-ND‡§		280.00/2,500		19003-0105
			.250x.032 (6.35x0.81)	.135 (3.43)	WM18749CT-ND†	3.81	30.44	126.84	19003-0003
			.250x.032 (6.35x0.81)	.135 (3.43)	WM18749TR-ND‡		178.00/1,000		19003-0003
			.187 (4.75)	.135 (3.43)	WM18238-ND	2.38	19.06	79.43	19003-0011
			.187x.020 (4.75x0.51)	.135 (3.43)	WM18750CT-ND†	3.90	31.21	130.03	19003-0013
			.187x.020 (4.75x0.51)	.135 (3.43)	WM18750TR-ND‡		182.00/1,000		19003-0013
			.187x.032 (4.75x0.81)	.135 (3.43)	WM18759-ND	2.10	16.83	70.14	19003-0017
			.110x.020 (2.79x0.51)	.135 (3.43)	WM18760-ND	2.21	17.68	73.68	19003-0024
		29	.250x.032 (6.35x0.81)	.165 (4.19)	WM18764-ND	2.33	18.61	77.55	19005-0001
		23	.187x.032 (4.75x0.81)	.135 (3.43)	WM5928-ND*	3.40	27.22	113.41	19003-0129
	16~14 Blue	14/23	.250 (6.35)	.145 (3.68)	WM18239-ND	2.46	19.68	82.01	19003-0040
			.250x.032 (6.35x0.81)	.160 (4.06)	WM18751CT-ND†	4.06	32.48	135.33	19003-0042
			.250x.032 (6.35x0.81)	.160 (4.06)	WM18751TR-ND‡		189.00/1,000		19003-0042
			.250x.032 (6.35x0.81)	.145 (3.68)	WM5929-ND*	3.03	24.24	101.01	19003-0044
			.187 (4.75)	.160 (4.06)	WM18240-ND	2.90	23.23	96.80	19003-0050
		23/29	.250x.032 (6.35x0.81)	.165 (4.19)	WM18765-ND	2.33	18.61	77.55	19005-0005
		25	.187x.020 (4.75x0.51)	.160 (4.06)	WM5927-ND*	3.83	30.68	127.83	19003-0132
			.187x.032 (4.75x0.81)	.160 (4.06)	WM5930-ND*	3.83	30.68	127.83	19003-0135
				Insulkrimp® - Female (Expanded Flare)					
2	12~10 Yellow	23	.250 (6.35)	.275 (6.98)	WM18241-ND	3.94	31.49	131.21	19005-0010

* With 94V-0 Material † Cut Tape ‡ Tape and Reel ◊ TUV Rheinland Approved § **NEW!**

Quick Disconnect Flags

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Molex Part No.
				Avikrimp® - Fully Pre-Insulated					
3	22-18 Red	9/25	.250x.032 (6.35x0.81)	.150 (3.81)	WM18242-ND	4.76	38.07	158.63	19006-0001
			.187x.020 (4.75x0.51)	.150 (3.81)	WM18245-ND	4.76	38.07	158.63	19006-0005
			.250x.032 (6.35x0.81)	.150 (3.81)	WM18752CT-ND†◊	6.75	54.02	—	19006-0003
			.250x.032 (6.35x0.81)	.150 (3.81)	WM18752TR-ND‡◊		78.75/250		19006-0003
	16-14 Blue	9/25	.250x.032 (6.35x0.81)	.170 (4.32)	WM18243-ND	4.66	37.30	155.43	19006-0011
			.187x.020 (4.75x0.81)	.170 (4.32)	WM18246-ND	4.78	38.21	159.23	19006-0015
	12-10 Yellow	10/25	.250x.032 (6.35x0.81)	.248 (6.30)	WM18244-ND	9.60	76.76	319.85	19006-0019
			.250x.032 (6.35x0.81)	.245 (6.22)	WM18244CT-ND†§	—	132.96	—	19006-0020
			.250x.032 (6.35x0.81)	.245 (6.22)	WM18244TR-ND‡§		145.50/250		19006-0020
				Insulkrimp® - Fully Insulated					
3	22-18 Red	11/25	.250 (6.35)	.175 (4.44)	WM18247-ND	3.53	28.28	117.83	19007-0001
			.250x.032 (6.35x0.81)	.175 (4.44)	WM18753CT-ND†◊	5.04	40.28	—	19007-0004
			.250x.032 (6.35x0.81)	.175 (4.44)	WM18753TR-ND‡◊		58.75/250		19007-0004
			.187 (4.75)	.175 (4.44)	WM18250-ND	3.53	28.28	117.83	19007-0009
	16-14 Blue	11/25	.250 (6.35)	.200 (5.08)	WM18248-ND	3.54	28.29	117.88	19007-0021
			.250x.032 (6.35x0.81)	.200 (5.08)	WM18754CT-ND†◊	5.02	40.16	—	19007-0024
			.250x.032 (6.35x0.81)	.200 (5.08)	WM18754TR-ND‡◊		58.50/250		19007-0024
			.187 (4.75)	.200 (5.08)	WM18251-ND	3.53	28.28	117.83	19007-0029
			.250 (6.35)	.200 (5.08)	WM5931-ND*	3.15	25.21	105.03	19007-0073
	12-10 Yellow	10/25	.250 (6.35)	.262 (6.65)	WM18249-ND	4.48	35.82	149.24	19007-0040

* With 94V-0 Material † Cut Tape ‡ Tape and Reel ◊ TUV Rheinland Approved § **NEW!**

Piggyback QDs Fully-Insulated Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Molex Part No.
4	12-10	37	.250 (6.35)	.277 (7.04)	WM18717-ND	5.66	45.32	188.81	19013-0033

Avikrimp® Nylon Insulated with Vibration Support Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. In (mm)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Molex Part No.
				Female					
5	22-18	23	.250 x.032 (6.3 x 0.8)	.115 (2.9)	WM18255-ND	2.68	21.41	89.21	19019-0012
			.250 x.032 (6.3 x 0.8)	.115 (2.9)	WM18755CT-ND†	3.96	31.71	132.14	19019-0013
			.250 x.032 (6.3 x 0.8)	.115 (2.9)	WM18755TR-ND‡		277.50/1,500		19019-0013
			.187 x .020 (4.7 x 0.5)	.115 (2.9)	WM18257-ND	2.65	21.17	88.20	19019-0006
			.110 x .032 (2.8 x 0.8)	.115 (2.9)	WM18259-ND	2.94	23.52	98.01	19019-0004
			.110 x .020 (2.8 x 0.5)	.115 (2.9)	WM18260-ND	3.18	25.44	106.01	19019-0001
	16-14	23	.110 x .020 (2.8 x 0.5)	.138 (3.5)	WM18261-ND	3.03	24.24	101.01	19019-0022
			.187 x .020 (4.7 x 0.5)	.138 (3.5)	WM18258-ND	2.63	21.08	87.81	19019-0027
			.250 x .032 (6.3 x 0.8)	.138 (3.5)	WM18262-ND	2.66	21.27	88.61	19019-0031
			.250 x .032 (6.3 x 0.8)	.138 (3.5)	WM18756CT-ND†	4.05	32.44	135.15	19019-0033
			.250 x .032 (6.3 x 0.8)	.138 (3.5)	WM18756TR-ND‡		283.50/1,500		19019-0033
	12-10	18/23	.250 x .032 (6.3 x 0.8)	.225 (5.7)	WM18256-ND	4.42	35.33	147.23	19019-0037
				Male					
6	22-18	12/22	.250 x .032 (6.3 x 0.8)	.140 (6.3)	WM18942-ND	2.76	22.09	92.04	19025-0001
	16-14	19/22	.250 x .032 (6.3 x 0.8)	.170 (4.3)	WM18944-ND	3.78	30.27	126.14	19025-0007
	12-10	18/23	.250 x .032 (6.3 x 0.8)	.225 (5.7)	WM18943-ND	4.36	34.85	145.23	19025-0005

† Cut Tape ‡ Tape and Reel

(Continued)

Snap Plugs

Fig.	AWG	Crimp Tool #	Diameter Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
						10	100	500	
Insulkrimp® (PVC Insulation)									
7	22-18	12/22	.156 (3.96)	.140 (3.6)	WM18263-ND◆	3.23	25.83	107.61	19034-0005
	16-14		.156 (3.96)	.175 (4.4)	WM18264-ND	3.03	24.24	101.01	19034-0009
Avikrimp® (Nylon Insulation) — RoHS Compliant									
8	22-18	12/22	.156 (3.96)	.140 (3.6)	WM18267-ND	3.80	30.39	126.61	19036-0003
	16-14		.156 (3.96)	.170 (4.3)	WM18268-ND	3.94	31.54	131.43	19036-0008

◆ ***RoHS Compliant***

Snap Plug Receptacles

Fig.	AWG	Crimp Tool #	Snap Plug Dia. Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
						10	100	500	
Insulkrimp® (PVC Insulation)									
9	22~18	3/27	.156 (3.9)	.140 (3.5)	WM18265-ND	2.26	18.05	75.21	19038-0001
	16~14		.156 (3.9)	.170 (4.3)	WM18266-ND	2.08	16.61	69.20	19038-0007
Avikrimp® (Nylon Insulation)									
10	22~18	3/27	.156 (3.9)	.125 (3.2)	WM18269-ND	3.21	25.69	107.03	19039-0001
	16~14		.156 (3.9)	.150 (3.8)	WM18270-ND	3.26	26.07	108.63	19039-0006

Snap Spade Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Max. Wire Insul. Dia. Inch (mm)	Max. Width Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
							10	100	500	
Insulkrimp® (PVC Insulation) — RoHS Compliant										
11	22~18 Red	12/22	5-6	.145 (3.7)	.260 (6.6)	WM18315-ND	2.11	16.85	70.21	19099-0009
			8	.145 (3.7)	.310 (7.87)	WM18996-ND‡	2.34	18.76	78.16	19099-0013-C
			10	.145 (3.7)	.340 (8.6)	WM18317-ND	2.28	18.24	76.00	19099-0015
	16~14 Blue	12/22	5-6	.175 (4.4)	.260 (6.6)	WM18318-ND	2.12	16.95	70.61	19099-0027
			8	.175 (4.4)	.320 (8.1)	WM18319-ND	2.23	17.81	74.21	19099-0032
			10	.175 (4.4)	.340 (8.6)	WM18320-ND	2.24	17.91	74.61	19099-0034
			10	.175 (4.4)	.330 (8.4)	WM18714-ND	3.54	28.32	118.01	19099-0035-C
	12~10 Yellow	12/22	5-6	.250 (6.4)	.260 (6.6)	WM18321-ND	3.25	25.97	108.23	19099-0044
			10	.250 (6.4)	.340 (8.6)	WM18323-ND	3.49	27.89	116.21	19099-0050
Avikrimp® (Nylon Insulation)										
11	22~18 Red	12/22	5-6	.140 (3.6)	.260 (6.6)	WM18324-ND◆	3.05	24.44	101.81	19115-0009
			8	.140 (3.6)	.300 (7.6)	WM18326-ND◆	2.44	19.51	81.29	19115-0003
			8	.140 (3.6)	.320 (8.1)	WM18327-ND◆	3.07	24.58	102.41	19115-0012
			10	.140 (3.6)	.340 (8.6)	WM18328-ND◆	3.09	24.73	103.03	19115-0014
	16~14 Blue	12/22	5-6	.170 (4.3)	.260 (6.6)	WM18329-ND◆	3.02	24.19	100.80	19115-0024
			8	.170 (4.3)	.320 (8.1)	WM18331-ND◆	3.12	24.96	104.01	19115-0079
			10	.170 (4.3)	.340 (8.6)	WM18332-ND◆	3.14	25.11	104.63	19115-0031
	12~10 Yellow	12/22	5-6	.225 (5.7)	.260 (6.6)	WM18333-ND◆	5.59	44.74	186.43	19115-0042
			8	.225 (5.7)	.330 (8.4)	WM18334-ND◆	3.06	24.51	102.13	19115-0035
			10	.225 (5.7)	.340 (8.6)	WM18335-ND	5.84	46.76	194.83	19115-0048

◆ ***RoHS Compliant*** ‡ ***NEW!***

Standard Ring Tongue

Fig.	AWG	Crimp Tool #	Stud Size	Max. Width Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
						10	100	500	
Insulkrimp® (PVC Insulation) — RoHS Compliant									
12	22~18	14/22	1-2	.235 (6.0)	WM18271-ND	1.97	15.80	65.81	19070-0005
			3-4	.235 (6.0)	WM18272-ND	1.97	15.80	65.81	19070-0007
			5-6	.264 (6.7)	WM18273-ND	2.06	16.47	68.61	19070-0040
			10	.322 (8.2)	WM18275-ND	2.12	17.00	70.81	19070-0015
			1/4	.477 (12.1)	WM18276-ND	2.41	19.30	80.41	19070-0023
			5/16	.477 (12.1)	WM18277-ND	2.41	19.30	80.41	19070-0026
			3/8	.544 (13.8)	WM18278-ND	2.53	20.21	84.20	19070-0033
	16~14	14/22	3-4	.260 (6.6)	WM18279-ND	1.99	15.94	66.43	19070-0067
			5-6	.260 (6.6)	WM18280-ND	1.99	15.94	66.43	19070-0069
			8	.322 (8.2)	WM18281-ND	2.08	16.66	69.41	19070-0086
			10	.322 (8.2)	WM18282-ND	2.08	16.66	69.41	19070-0090
			1/4	.477 (12.1)	WM18283-ND	2.29	18.34	76.41	19070-0075
			5/16	.477 (12.1)	WM18284-ND	2.29	18.34	76.41	19070-0078
			3/8	.544 (13.8)	WM18285-ND	2.73	21.84	91.01	19070-0059
	12~10	14/22	5-6	.292 (7.4)	WM18286-ND	3.08	24.63	102.63	19070-0143
			8	.292 (7.4)	WM18287-ND	3.08	24.63	102.63	19070-0145
			10	.385 (9.8)	WM18288-ND	2.86	22.90	95.41	19070-0123
			10	.250 (6.35)	WM18288CT-ND‡ ***NEW!***	—	50.31	204.39	19070-0125
			10	.250 (6.35)	WM18288TR-ND† ***NEW!***	220.00/1,000			19070-0125
			1/4	.540 (13.7)	WM18289-ND	3.39	27.12	113.01	19070-0132
			5/16	.540 (13.7)	WM18290-ND	3.39	27.12	113.01	19070-0136
			3/8	.598 (15.2)	WM18291-ND	3.72	29.77	124.03	19070-0153
			1/2	.760 (19.3)	WM18292-ND	5.05	40.42	168.43	19070-0109
Avikrimp® (Nylon Insulation)									
12	22~18	14/22	1-2	.235 (6.0)	WM18293-ND◆	2.69	21.56	89.81	19073-0005
			3-4	.235 (6.0)	WM18294-ND◆	2.69	21.56	89.81	19073-0007
			5-6	.264 (6.7)	WM18295-ND◆	2.69	21.51	89.63	19073-0038
			8	.322 (8.2)	WM18296-ND◆	2.83	22.66	94.43	19073-0013
			10	.322 (8.2)	WM18297-ND◆	2.83	22.66	94.43	19073-0017
			1/4	.477 (12.1)	WM18298-ND◆	3.27	26.17	109.03	19073-0024
			5/16	.477 (12.1)	WM18299-ND◆	3.27	26.17	109.03	19073-0027
			3/8	.544 (13.8)	WM18300-ND◆	3.67	29.33	122.21	19073-0032
	16~14	14/22	3-4	.260 (6.6)	WM18301-ND◆	2.88	23.05	96.03	19073-0065
			5-6	.260 (6.6)	WM18302-ND◆	2.88	23.05	96.03	19073-0067
			8	.322 (8.2)	WM18303-ND◆	2.98	23.81	99.21	19073-0085
			10	.322 (8.2)	WM18304-ND◆	2.98	23.81	99.21	19073-0087
			1/4	.477 (12.1)	WM18305-ND◆	3.19	25.54	106.41	19073-0076
			5/16	.477 (12.1)	WM18306-ND◆	3.19	25.54	106.41	19073-0079
			3/8	.544 (13.8)	WM18307-ND	3.74	29.91	124.61	19073-0059
	12~10	11/22	5-6	.292 (7.4)	WM18308-ND◆	4.90	39.17	163.23	19073-0216
			8	.292 (7.4)	WM18309-ND◆	4.90	39.17	163.23	19073-0222
12	12~10	14/22	10	.385 (9.8)	WM18310-ND◆	4.68	37.45	156.03	19073-0170
			1/4	.540 (13.7)	WM18311-ND◆	5.21	41.67	173.63	19073-0188
			5/16	.540 (13.7)	WM18312-ND◆	5.21	41.67	173.63	19073-0200
			3/8	.598 (15.2)	WM18313-ND	5.54	44.31	184.63	19073-0236
			1/2	.760 (19.3)	WM18314-ND	6.87	54.97	229.03	19073-0145

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel

Flanged Spade Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Max. Wire Insul. Dia. Inch (mm)	Max. Width Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
							10	100	500	
Insulkrimp® (PVC Insulation) — RoHS Compliant										
13	22~18 Red	14/22	5-6	.145 (3.7)	.301 (7.6)	WM18336-ND	2.07	16.56	69.00	19121-0005
			8	.145 (3.7)	.301 (7.6)	WM18337-ND	2.07	16.56	69.00	19121-0007
			10	.145 (3.7)	.301 (7.6)	WM18338-ND	2.07	16.56	69.00	19121-0009
	16~14 Blue	14/22	5-6	.175 (4.4)	.301 (7.6)	WM18339-ND	2.03	16.23	67.61	19121-0026
			8	.175 (4.4)	.301 (7.6)	WM18340-ND	2.03	16.23	67.61	19121-0028
			10	.175 (4.4)	.301 (7.6)	WM18341-ND	2.03	16.23	67.61	19121-0030
	12~10 Yellow	14/22	8	.250 (6.4)	.385 (9.8)	WM18342-ND	3.19	25.49	106.23	19121-0053
			10	.250 (6.4)	.385 (9.8)	WM18343-ND	3.19	25.49	106.23	19121-0056
Avikrimp® (Nylon Insulation)										
13	22~18	14/22	5-6	.140 (3.6)	.301 (7.6)	WM18344-ND◆	3.20	25.59	106.63	19127-0007
			10	.140 (3.6)	.301 (7.6)	WM18346-ND◆	3.20	25.59	106.63	19127-0012
	16~14 Blue	14/22	5-6	.170 (4.3)	.301 (7.6)	WM18347-ND	3.38	27.03	112.61	19127-0039
			8	.170 (4.3)	.301 (7.6)	WM18348-ND◆	3.38	27.03	112.61	19127-0042
			10	.170 (4.3)	.301 (7.6)	WM18349-ND◆	3.38	27.03	112.61	19127-0099
	12~10 Yellow	14/22	8	.225 (5.7)	.385 (9.8)	WM18350-ND◆	4.70	37.59	156.63	19127-0086-C
			10	.225 (5.7)	.385 (9.8)	WM18351-ND◆	4.70	37.59	156.63	19127-0089

◆ ***RoHS Compliant***

Wire Pin Terminals

Fig.	AWG	Crimp Tool #	Pin Dia. Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
						10	100	500	
Krimptite® (Non-insulated)									
14	22~18	17/24	.08 (2.03)	—	WM18374-ND	1.47	11.76	49.01	19211-0003
	16~14		.08 (2.03)	—	WM18375-ND	3.39	27.12	113.01	19211-0005
	12~10		.12 (3.05)	—	WM18376-ND	1.23	9.84	41.01	19211-0001
Insulkrimp® (PVC Insulation)									
15	22~18 Red	14/22	.08 (2.03)	.145 (3.68)	WM18377-ND	2.63	21.08	87.81	19212-0003
	16~14 Blue		.08 (2.03)	.175 (4.44)	WM18378-ND	3.39	27.12	113.01	19212-0005
	12~10 Yellow		.12 (3.05)	.25 (6.35)	WM18379-ND	2.12	17.00	70.81	19212-0001
Avikrimp® (Nylon Insulation)									
16	22~18 Red	14/22	.08 (2.03)	.14 (3.56)	WM18380-ND	3.58	28.61	119.23	19213-0009
	16~14 Blue		.08 (2.03)	.17 (4.32)	WM18381-ND	1.01	8.11	33.80	19213-0011
	12~10 Yellow		.12 (3.05)	.225 (5.71)	WM18382-ND	3.74	29.96	124.81	19213-0007

Spade Tongue Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Max. Wire Insul. Dia. Inch (mm)	Max. Width Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
							10	100	500	
Insulkrimp® (PVC Insulation) — RoHS Compliant										
17	22~18 Red	14/22	5-6	.145 (3.7)	.326 (8.3)	WM18352-ND	2.12	16.95	70.61	19144-0001
			8	.145 (3.7)	.326 (8.3)	WM18353-ND	2.12	16.95	70.61	19144-0003
			10	.145 (3.7)	.326 (8.3)	WM18354-ND	2.12	16.95	70.61	19144-0005
	16~14 Blue	14/22	5-6	.175 (4.4)	.305 (7.7)	WM18355-ND	1.84	14.69	61.21	19144-0018
			8	.175 (4.4)	.305 (7.7)	WM18356-ND	1.95	15.60	65.00	19144-0020
			8	.175 (4.4)	.372 (9.4)	WM18357-ND	2.11	16.90	70.41	19144-0024
			10	.175 (4.4)	.372 (9.4)	WM18358-ND	2.11	16.90	70.41	19144-0026
	12~10 Yellow	14/22	5-6	.250 (6.4)	.385 (9.8)	WM18359-ND	3.05	24.39	101.61	19144-0037
			8	.250 (6.4)	.385 (9.8)	WM18360-ND	3.05	24.39	101.61	19144-0039
			10	.250 (6.4)	.385 (9.8)	WM18361-ND	3.05	24.39	101.61	19144-0042
			1/4	.250 (6.4)	.543 (13.8)	WM18362-ND	4.13	33.03	137.61	19144-0046
Avikrimp® (Nylon Insulation)										
17	22~18 Red	14/22	5-6	.140 (3.6)	.326 (8.3)	WM18363-ND◆	2.90	23.23	96.80	19198-0070
			8	.140 (3.6)	.326 (8.3)	WM18364-ND◆	2.90	23.23	96.80	19198-0004
			10	.140 (3.6)	.326 (8.3)	WM18365-ND◆	2.90	23.23	96.80	19198-0006
	16~14 Blue	14/22	5-6	.170 (4.3)	.305 (7.7)	WM18366-ND	2.77	22.13	92.21	19198-0016
			8	.170 (4.3)	.305 (7.7)	WM18367-ND◆	2.77	22.13	92.21	19198-0019
			10	.170 (4.3)	.372 (9.4)	WM18369-ND◆	3.03	24.24	101.01	19198-0025-C
	12~10 Yellow	14/22	5-6	.225 (5.7)	.385 (9.8)	WM18370-ND	4.87	38.98	162.41	19198-0044
			8	.225 (5.7)	.385 (9.8)	WM18371-ND◆	4.87	38.98	162.41	19198-0047
			10	.225 (5.7)	.385 (9.8)	WM18372-ND◆	4.87	38.98	162.41	19198-0050

◆ ***RoHS Compliant***

Perma-Seal – All Weather, Heat-Sealable Nylon Terminals and Splices

Fig.	AWG	Crimp Tool #	Stud Size	Digi-Key Part No.	Pricing			Molex Part No.
					10	100	500	
Ring								
18	22~18 Red	1/26	6	WM18397-ND◆	8.53	68.27	284.45	19164-0085
			8	WM18398-ND◆	8.53	68.27	284.45	19164-0086
			10	WM18399-ND◆	8.53	68.27	284.45	19164-0003
			1/4	WM18400-ND◆	8.53	68.27	284.45	19164-0004
			3/8	WM18401-ND	8.49	67.88	282.85	19164-0005
	16~14 Blue	1/26	6	WM18402-ND◆	8.97	71.72	298.84	19164-0032
			8	WM18403-ND◆	8.97	71.72	298.84	19164-0033
			10	WM18404-ND◆	8.97	71.72	298.84	19164-0034
			1/4	WM18405-ND◆	8.97	71.72	298.84	19164-0026
			5/16	WM18406-ND	8.97	71.72	298.84	19164-0027
			3/8	WM18407-ND	9.01	72.11	300.45	19164-0020

◆ ***RoHS Compliant***

(Continued)

Perma-Seal – All Weather, Heat-Sealable Nylon Terminals and Splices *(Cont.)*

Fig.	AWG	Crimp Tool #	Stud Size	Digi-Key Part No.	Pricing			Molex Part No.
					10	100	500	
18	12~10 Yellow	1/26	6	WM18408-ND◆	9.66	77.24	321.85	19164-0061
			8	WM18409-ND	9.66	77.24	321.85	19164-0062
			10	WM18410-ND	9.54	76.33	318.04	19164-0065
			1/4	WM18411-ND◆	9.54	76.33	318.04	19164-0066
			5/16	WM18412-ND◆	9.54	76.33	318.04	19164-0067
			3/8	WM18413-ND◆	9.94	79.50	331.25	19164-0068
			1/2	WM18414-ND◆	11.53	92.27	384.46	19164-0058
Spade								
19	22~18 Red	1/26	6	WM18415-ND◆	8.53	68.27	284.45	19164-0006
			8	WM18416-ND◆	8.53	68.27	284.45	19164-0007
			10	WM18417-ND◆	8.53	68.27	284.45	19164-0008
	16~14 Blue	1/26	6	WM18418-ND◆	8.97	71.72	298.84	19164-0028
			8	WM18419-ND◆	8.97	71.72	298.84	19164-0029
			10	WM18420-ND	8.97	71.72	298.84	19164-0030
	12~10 Yellow	1/26	6	WM18421-ND	9.66	77.24	321.85	19164-0069
			8	WM18422-ND◆	9.66	77.24	321.85	19164-0070
			10	WM18423-ND	10.43	83.44	347.65	19164-0072
			1/4	WM18424-ND	10.43	83.44	347.65	19164-0073
Butt Splices — RoHS Compliant								
20	22~18 Red	1/26	—	WM18425-ND	8.86	70.91	295.45	19164-0013
	16~14 Blue		—	WM18426-ND	9.30	74.36	309.84	19164-0044
	16~14 Blue		—	WM18426CT-ND‡ ***NEW!***	—	118.38	—	19164-0045
	16~14 Blue		—	WM18426TR-ND† ***NEW!***		259.00/500		19164-0045
	12~10 Yellow		—	WM18427-ND	11.99	95.92	399.68	19164-0056
Quick Disconnect Couplers - Male — RoHS Compliant								
21	22~18 Red	3/27	.250 (6.35)	WM18428-ND	9.03	72.20	300.84	19164-0015
	16~14 Blue		.250 (6.35)	WM18430-ND	9.43	75.47	314.45	19164-0048
	12~10 Yellow	25	.250 (6.35)	WM18432-ND	12.92	103.36	430.66	19164-0075
22	—	—	.250 (6.35)	WM18724-ND	9.09	72.71	302.98	19164-0019
	—	—	.250 (6.35)	WM18725-ND	6.86	54.86	228.60	19164-0084
	—	—	.250 (6.35)	WM18726-ND	9.00	72.04	300.15	19164-0078
23	8 Red	—	—	WM18727-ND	19.63	157.04	654.35	19164-0079
Quick Disconnect Couplers - Female — RoHS Compliant								
24	22~18 Red	3/27	.250 (6.35)	WM18429-ND	9.10	72.78	303.24	19164-0017
	16~14 Blue		.250 (6.35)	WM18431-ND	9.42	75.37	314.05	19164-0050
	12~10 Yellow	25	.250 (6.35)	WM18433-ND	13.01	104.08	433.66	19164-0076
25	22~18 Red	—	.250 (6.35)	WM18721-ND	7.54	60.29	251.23	19164-0012
	16~14 Blue	—	.250 (6.35)	WM18722-ND	7.92	63.35	263.94	19164-0047
	12~10 Yellow	—	.250 (6.35)	WM18723-ND	8.53	68.22	284.25	19164-0059

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel

Step Down Butt Connectors

RoHS COMPLIANT

Fig.	AWG	Crimp Tool #	Insulation Color	Digi-Key Part No.	Pricing			Molex Part No.
					10	100	500	
26	16/14 ~ 22/18	17/24	Non-Insulated	WM18389-ND	10.42	83.39	347.45	19215-0013
	12/10 ~ 16/14		Non-Insulated	WM18390-ND	11.22	89.73	373.86	19215-0023
27	16/14 ~ 22/18	12/22	Blue with Red Stripe	WM18391-ND	10.64	85.12	354.66	19154-0022
	12/10 ~ 16/14	12/22	Yellow with Blue Stripe	WM18392-ND	11.74	93.90	391.26	19154-0035
	12/10 ~ 16/14	1/26	Yellow with Blue Stripe	WM18950-ND ***NEW!***	22.59	180.75	753.11	19164-0077

Nylon-Insulated, Closed-End Connectors

RoHS COMPLIANT

Fig.	AWG	Crimp Tool #	Outside Diameter Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
					10	100	500	
28	22-14	25	.31 (7.8)	WM18393-ND	1.58	12.67	52.80	19160-0012
	22-12	6/25	.35 (8.9)	WM18394-ND	1.39	11.14	46.40	19160-0009
	16-10	25	.44 (11.2)	WM18395-ND	1.88	15.08	62.81	19160-0002
	8	25	.56 (14.2)	WM18396-ND	4.06	32.50	135.43	19160-0024

Heavy Duty Ring Tongue Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Molex Part No.
				Length	Width		1	10	100	
29	8	16	10	1.20 (30.48)	.445 (11.30)	WM5932-ND◆	.70	5.80	41.41	19221-0223
			1/4	1.20 (30.48)	.445 (11.30)	WM5933-ND◆	.97	8.03	57.33	19221-0224
			5/16	1.305 (33.15)	.445 (11.30)	WM5934-ND◆	.62	5.10	36.45	19221-0225
			3/8	1.305 (33.15)	.605 (15.37)	WM5935-ND◆	.91	7.52	53.74	19221-0226
	6	16	1/4	1.270 (32.26)	.605 (15.37)	WM5936-ND◆	1.35	11.11	79.36	19221-0227
			5/16	1.410 (35.81)	.605 (15.37)	WM5937-ND◆	1.59	13.13	93.75	19221-0228
			3/8	1.410 (35.81)	.605 (15.37)	WM5938-ND◆	1.44	11.85	84.66	19221-0229
	4	16	1/4	1.500 (38.10)	.525 (13.33)	WM5939-ND◆	1.54	12.67	90.51	19221-0230
			5/16	1.530 (38.86)	.525 (13.33)	WM5940-ND◆	1.35	11.10	79.27	19221-0231
			3/8	1.530 (38.86)	.525 (13.33)	WM5941-ND◆	1.30	10.74	76.71	19221-0232
	2	16	5/16	1.620 (41.15)	.615 (15.62)	WM5942-ND◆	4.91	40.46	289.03	19221-0233
			3/8	1.620 (41.15)	.615 (15.62)	WM5943-ND◆	1.78	14.69	104.90	19221-0235
			1/2	1.750 (44.45)	.755 (19.18)	WM5944-ND◆	2.42	19.95	142.47	19221-0236
	1	16	3/8	1.720 (43.69)	.655 (16.64)	WM5946-ND◆	1.78	14.70	104.98	19221-0238
			1/2	1.830 (46.48)	.755 (19.18)	WM5947-ND	2.49	20.52	146.60	19221-0239
	1/0	16	5/16	1.830 (46.48)	.725 (18.42)	WM5948-ND◆	2.37	19.52	139.40	19221-0240
			3/8	1.830 (46.48)	.725 (18.42)	WM5949-ND◆	2.21	18.21	130.10	19221-0241
			1/2	1.830 (46.48)	.725 (18.42)	WM5950-ND	2.21	18.21	130.10	19221-0242
	2/0	16	5/16	2.062 (52.37)	.815 (20.70)	WM5951-ND◆	3.12	25.72	183.71	19221-0243
			3/8	2.062 (52.37)	.815 (20.70)	WM5952-ND◆	2.92	24.03	171.68	19221-0244
			1/2	2.062 (52.37)	.815 (20.70)	WM5953-ND	2.61	21.46	153.29	19221-0245
	3/0	16	5/16	2.160 (54.86)	.895 (22.73)	WM5954-ND◆	3.59	29.57	211.18	19221-0246
			3/8	2.160 (54.86)	.895 (22.73)	WM5955-ND◆	3.46	28.52	203.70	19221-0247
			1/2	2.160 (54.86)	.895 (22.73)	WM5956-ND◆	3.59	29.57	211.18	19221-0248
	4/0	16	3/8	2.350 (59.69)	.985 (25.02)	WM5957-ND◆	5.10	41.98	299.84	19221-0250
			1/2	2.350 (59.69)	.985 (25.02)	WM5958-ND	5.05	41.62	297.32	19221-0251

◆ ***RoHS Compliant***

Butt Splices

RoHS COMPLIANT

Fig.	AWG	Crimp Tool #	Outside Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
					10	100	500	
Insulkrimp® (PVC Insulation)								
30	22-18	14/22	.135 (3.4)	WM18383-ND	1.42	11.33	47.21	19154-0004
	16-14		.160 (4.1)	WM18384-ND	1.70	13.58	56.60	19154-0015
	12-10		.220 (5.6)	WM18385-ND	2.53	20.26	84.41	19154-0028
Nylakrimp® (Nylon Insulation)								
31	22-18	—	.130 (3.3)	WM18731-ND	1.76	14.12	58.83	19202-0013
	16-14	—	.160 (4.1)	WM18732-ND	2.04	16.28	67.84	19202-0031
	12-10	—	.223 (5.7)	WM18733-ND	3.52	28.19	117.48	19202-0049

Window Butt Splices

RoHS COMPLIANT

Fig.	AWG	Crimp Tool #	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing			Molex Part No.
					10	100	500	
32	22-18 Red	14/22	.140 (3.56)	WM18386-ND	10.25	82.00	341.65	19199-0007
	16-14 Blue		.170 (4.32)	WM18387-ND	8.58	68.65	286.05	19199-0009
	12-10 Yellow	25	.228 (5.79)	WM18388-ND	14.73	117.81	490.88	19199-0011-C

Splice Connectors

RoHS COMPLIANT

Fig.	Description	Digi-Key Part No.	Pricing			Molex Part No.
			10	100	500	
See and Splice™ 4 Circuit Push-In Wire Connectors						
33	2 Port, Red, 12-22AWG	WM23953-ND	2.09	16.75	69.79	19430-0001
	3 Port, Orange, 12-22AWG	WM23954-ND	3.07	24.59	102.46	19430-0002
	4 Port, Yellow, 12-22AWG	WM23955-ND	3.56	28.49	118.73	19430-0003
Parallel Solder Splice Connector						
34	Clear, 24-26AWG 1.50”	WM23945-ND	10.81	86.51	360.45	19164-0162
	Red, 22-18AWG 1.50”	WM23946-ND	10.18	81.47	339.45	19164-0163
	Blue, 14-16AWG 1.50”	WM23947-ND	10.18	81.42	339.25	19164-0164
	Yellow, 10-12AWG 1.50”	WM23948-ND	11.23	89.87	374.45	19164-0165
Twist Lock Splice Connector						
35	Blue, 14-22AWG	WM23949-ND	.73	5.81	24.21	19160-0040
	Orange, 14-22AWG	WM23950-ND	1.07	8.52	35.51	19160-0041
	Yellow, 10-22AWG	WM23951-ND	1.28	10.26	42.76	19160-0042
	Red, 8-22AWG	WM23952-ND	1.98	15.81	65.89	19160-0043

Wire Taps

RoHS COMPLIANT

Fig.	Description	Digi-Key Part No.	Pricing			Molex Part No.
			10	100	500	
Standard Wire Taps						
36	Conn. Wire Tap, Yellow 12AWG	WM18919-ND	2.53	20.27	84.44	19216-0019
	Conn. Wire Tap, Blue 14-18AWG	WM18917-ND	2.23	17.81	74.20	19216-0017
	Conn. Wire Tap, Red 18-22AWG	WM18918-ND	2.23	17.81	74.20	19216-0018
Ultimate Wire Taps (Accepts 0.25” male quick disconnect tab)						
36	Conn. Wire Tap, Yellow 12AWG	WM18914-ND	5.19	41.51	172.95	19216-0009
	Conn. Wire Tap, Blue 14-18AWG	WM18915-ND	5.19	41.51	172.95	19216-0010
	Conn. Wire Tap, Red 18-22AWG	WM18916-ND	5.19	41.51	172.95	19216-0011
Multi-Lock Wire Taps						
37	Conn. Wire Tap, Yellow 10-12AWG	WM18734-ND	2.28	18.28	76.15	19216-0002
	Conn. Wire Tap, Blue 14-16AWG	WM18735-ND	1.45	11.57	48.23	19216-0003
	Conn. Wire Tap, White 14-18AWG	WM18736-ND	1.45	11.57	48.23	19216-0004
	Conn. Wire Tap, Red 18-22AWG	WM18737-ND	1.45	11.57	48.23	19216-0005
Perma-Fit Heat Shrink Tubing						
38	PVC Heat Shrink, Black w/Adhesive Liner	WM18728-ND	71.28	570.27	2376.11	19269-0239

Ratchet Style Crimp Tools

Crimp Tool #	Description	Digi-Key Part No.	Price Each	Molex Part No.
Premium				
#1	Sealed Ring, Spade and Butt	WM9012-ND	427.39	64001-7400
#3	Sealed, 14-22AWG .250” (6.35mm)	WM9976-ND	320.54	64001-4500
#4	10-12AWG .250” (6.35mm)	WM17466-ND	366.34	64001-4600
#6	Splice 12-22AWG	WM9977-ND	300.51	64001-0900
#7	Splice 8AWG	WM9015-ND	366.34	64001-2500
#8	Butt Splice 10-12AWG	WM17468-ND	320.54	64001-1500
#9	Flag QDs .187” (4.75mm) and .250” (6.35mm)	WM18524-ND	300.51	64001-4300
#10	Flag QDs .250” (6.35mm) 10-12AWG	WM18589-ND	366.34	64001-2800
#11	Flag QDs .187” (4.75mm)	WM17467-ND	300.51	64001-4100
#12	Terminals/Splices 10-22AWG	WM9952-ND	297.65	64001-0100
#14	14-16AWG .187” and .250” (4.75mm and 6.35mm)	WM9972-ND	366.34	64001-1000
#15	InsulKrimp® 18-22AWG Hand Crimp	WM9992-ND	343.44	64001-0700
#16	Ringterm 8-4/0AWG	WM5980-ND	129.74	19284-0034
#17	Wire Pins 10-22AWG	WM9974-ND	300.51	64003-0100
#18	Quick Connects 10-22AWG	WM9965-ND	297.65	64001-0200
#19	Snap Plug 14-22AWG	WM9966-ND	320.54	64001-1400
#20	Snap Plug 18-22AWG	WM18540-ND	366.34	64001-2300
#28	AviKrimp® 18-22AWG Hand Crimp	WM9995-ND	300.51	64001-0800
#29	14-22AWG Hand Crimp	WM9993-ND	343.44	64001-0700
#30	10-12AWG Hand Crimp	WM9994-ND	366.34	64001-5100
#31	Piggyback .250” QD	WM9948-ND	314.82	19813-1000
#32	Snap Plug 18-22AWG	WM9957-ND	309.84	19285-0057
#33	Manual Wire Stripper	WM9969-ND	84.59	63817-0000
#36	Hand Crimper 24-26AWG	WM18945-ND	343.44	64001-5200
#37	Piggyback Quick Disconnects 10-22AWG Hand Crimp	WM1616-ND	300.51	64001-6200
Service				
#22	Terminal/Splices 10-22AWG	WM9985-ND	44.41	64016-0036
#23	Quick Disconnects 10-22AWG	WM9986-ND	44.41	64016-0037
#24	Pin Terminals/Splices 10-22AWG	WM9987-ND	36.23	64016-0038
#25	Closed End Connectors - (Non-Ratchet Style Tool)	WM9988-ND	3.95	64016-0039
#26	Sealed Ring, Spade and Butt, 10-22AWG	WM9989-ND	36.23	64016-0041
#27	Sealed Quick Disconnects	WM9990-ND	36.23	64016-0042
#34	Hand Crimper 8.5” with Logo	WM18729-ND	3.76	19294-0062
#35	Hand Crimper 10-22AWG	WM18730-ND	16.58	19294-0003

Terminals, Tools, Lugs and Connectors

Insulated

Fig. 1
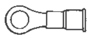

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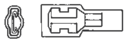

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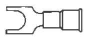

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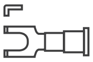

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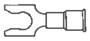

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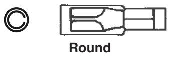

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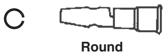

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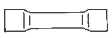

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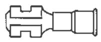

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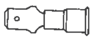

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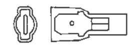

Fig. 12 — Multi-Stud
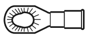

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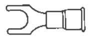

Uninsulated

Fig. 14
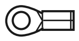

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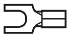

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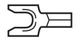

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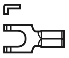

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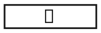

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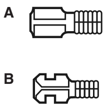

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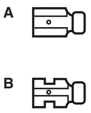

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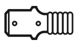

Heat Shrink

Fig. 22
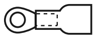

Fig. 23
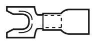

Fig. 24
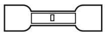

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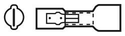

Miscellaneous

Fig. 26 – Female T-Tap Connector
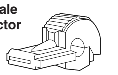

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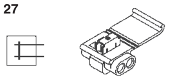

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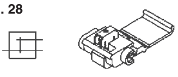

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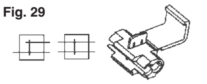

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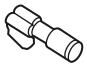

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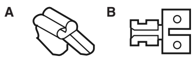

Fig. 32 – Closed End
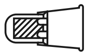

Fig. 33 – Electrical Spring Connector
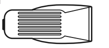

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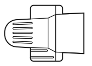

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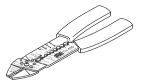

Fig.	AWG	Stud Size	Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing				3M Part No.
					10	50	100	500	
Insulated									
1	26-24 Yellow	#2	.145 (3.68)	920010-30-ND◆	12.09	44.04	77.73	319.54	MN24-2RK
1		#4		920010-31-ND◆	12.09	44.04	77.73	319.54	MN24-4RK
1		#6		920010-32-ND◆	12.09	44.04	77.73	319.54	MN24-6RK
1		#8		920010-33-ND◆	12.09	44.04	77.73	319.54	MN24-8RK
1		#10		920010-34-ND◆	12.09	44.04	77.73	319.54	MN24-10RK
1	22-18 Red	#4	.145 (3.68)	920010-35-ND	3.25	11.84	20.89	85.90	MVU18-4R/SK
1		#6		920010-01-ND	3.25	11.84	20.89	85.90	MVU18-6R/SK
1		#8		920010-02-ND	3.25	11.84	20.89	85.90	MVU18-8R/LK
1		#10		920010-03-ND	3.25	11.84	20.89	85.90	MVU18-10R/LK
1		1/4		920010-04-ND	3.80	13.84	24.42	100.38	MVU18-14R/SK
1		5/16	.145 (3.68)	920010-36-ND	4.83	17.61	31.07	127.72	MVU18-516R/SK
1		3/8		920010-37-ND	4.83	17.61	31.07	127.72	MVU18-38RK
3		#4		920020-16-ND	3.25	11.84	20.89	85.90	MVU18-4FB/SK
3		#6		920022-01-ND	3.25	11.84	20.89	85.90	MVU18-6FB/SK
3		#8		920022-02-ND	3.25	11.84	20.89	85.90	MVU18-8FBK
3		#10	.145 (3.68)	920020-17-ND	3.25	11.84	20.89	85.90	MVU18-10FBK
4		#6		920022-14-ND	3.80	13.83	24.41	100.36	MVU18-6FFBK
4		#8		920022-15-ND	3.80	13.83	24.41	100.36	MVU18-8FFBK
4		#10		920022-16-ND	3.80	13.83	24.41	100.36	MVU18-10FFBK
5		#4		920024-01-ND	3.51	12.80	22.58	92.83	MVU18-4FLK
5		#6	.145 (3.68)	920024-02-ND	3.51	12.80	22.58	92.83	MVU18-6FLK
5		#8		920024-03-ND	3.51	12.80	22.58	92.83	MVU18-8FLK
5		#10		920024-10-ND	3.51	12.80	22.58	92.83	MVU18-10FLK
6		.156”		920048-03-ND◆	8.08	29.42	51.93	213.47	MNG18-156DFIK
7		.156”		920050-01-ND	3.47	12.63	22.29	91.63	MVU18-156DMK
8		—	.145 (3.68)	920030-01-ND	3.45	12.58	22.19	91.24	MVU18-BCK
9		.187”		920040-01-ND	3.43	12.50	22.06	90.69	MVU18-187DFK
9		.250”		920040-02-ND	3.43	12.50	22.06	90.69	MVU18-250DFK
10		.187”		920042-01-ND	3.37	12.27	21.65	89.01	MVU18-187DMK
10		.250”		920042-02-ND	3.18	11.57	20.42	83.94	MVU18-250DMK
2		.187”	.145 (3.68)	920044-01-ND◆	5.00	18.20	32.12	132.03	MNU18-187DFIK
2		.250”		920044-02-ND◆	5.00	18.20	32.12	132.03	MNU18-250DFIK
2		.250”		920044-23-ND◆	5.16	18.79	33.17	136.35	FDI18-250C
11		.187”		920046-01-ND◆	5.59	20.36	35.93	147.71	MNU18-187DMIK
11		.250”		920046-02-ND◆	5.59	20.36	35.93	147.71	MNU18-250DMIK
12		6/8/10		920010-57-ND	4.39	15.98	28.20	115.92	MV18-610R
1	16-14 Blue	#4	.170 (4.32)	920010-38-ND	3.25	11.84	20.89	85.90	MVU14-4R/SK
1		#8		920010-39-ND	3.25	11.84	20.89	85.90	MVU14-8RK
1		#6		920010-05-ND	3.25	11.84	20.89	85.90	MVU14-6R/SK
1		#8		920010-06-ND	3.25	11.84	20.89	85.90	MVU14-8R/SK
1		#10		920010-07-ND	3.25	11.84	20.89	85.90	MVU14-10RK
1		1/4	.170 (4.32)	920010-08-ND	3.80	13.84	24.42	100.38	MVU14-14R/SK
1		5/16		920010-40-ND	4.83	17.61	31.07	127.72	MVU14-516R/SK
1		3/8		920010-41-ND	4.83	17.61	31.07	127.72	MVU14-38RK
13		#6		920020-01-ND	3.25	11.84	20.89	85.90	MVU14-6FK
13		#8		920020-02-ND	3.25	11.84	20.89	85.90	MVU14-8FK
3		#4	.170 (4.32)	920020-18-ND	3.25	11.84	20.89	85.90	MVU14-4FB/SK
3		#6		920022-03-ND	3.25	11.84	20.89	85.90	MVU14-6FB/SK
3		#8		920022-04-ND	3.25	11.84	20.89	85.90	MVU14-8FBK
3		#10		920020-19-ND	3.25	11.84	20.89	85.90	MVU14-10FBK
4		#6		920022-17-ND	3.80	13.83	24.41	100.36	MVU14-6FFBK
4		#8		920022-18-ND	3.80	13.83	24.41	100.36	MVU14-8FFBK
4		#10		920022-19-ND	3.80	13.83	24.41	100.36	MVU14-10FFBK
5		#6		920024-04-ND	3.51	12.80	22.58	92.83	MVU14-6FLK
5		#8		920024-05-ND	3.51	12.80	22.58	92.83	MVU14-8FLK
5		#10	.170 (4.32)	920024-06-ND	3.51	12.80	22.58	92.83	MVU14-10FLK
6		.156”		920048-02-ND◆	5.54	20.18	35.60	146.37	MNU14-156DFIK
7		.156”		920050-02-ND	3.47	12.63	22.29	91.63	MVU14-156DMK
8		—		920030-02-ND	3.45	12.58	22.19	91.24	MVU14-BCK
9		.187”		920040-03-ND	3.43	12.50	22.06	90.69	MVU14-187DFK
9		.250”	.170 (4.32)	920040-04-ND	3.43	12.50	22.06	90.69	MVU14-250DFK
10		.187”		920042-03-ND	3.37	12.27	21.65	89.01	MVU14-187DMK
10		.250”		920042-04-ND	3.37	12.27	21.65	89.01	MVU14-250DMK
2		.187”		920044-03-ND◆	5.00	18.20	32.12	132.03	MNU14-187DFIK
2		.250”		920044-04-ND◆	5.00	18.20	32.12	132.03	MNU14-250DFIK
2		.250”	.170 (4.32)	920044-22-ND◆	5.16	18.79	33.17	136.35	FDI14-250C
11		.187”		920046-03-ND◆	5.59	20.36	35.93	147.71	MNU14-187DMIK
11		.250”		920046-04-ND◆	5.59	20.36	35.93	147.71	MNU14-250DMIK
12		6/8/10		920010-58-ND	4.39	15.98	28.20	115.92	MV14-610R
1	12-10 Yellow	#6	.250 (6.35)	920010-43-ND	3.96	14.42	25.45	104.64	MVU10-6RK
1		#8		920010-09-ND	3.96	14.42	25.45	104.64	MVU10-8RK
1		#10		920010-10-ND	3.96	14.42	25.45	104.64	MVU10-10RK
1	12-10 Yellow	1/4	.250 (6.35)	920010-11-ND	5.29	19.28	34.02	139.84	MVU10-14R/SK
1		5/16		920010-44-ND	5.29	19.28	34.02	139.84	MVU10-516R/SK
1		3/8		920010-12-ND	5.29	19.28	34.02	139.84	MVU10-38R/SK
2		#6		920020-03-ND	3.96	14.42	25.45	104.64	MVU10-6FK
2		#8		920020-04-ND	3.96	14.42	25.45	104.64	MVU10-8FK
2		#10	.250 (6.35)	920020-05-ND	3.96	14.42	25.45	104.64	MVU10-10FK
4		#6		920022-20-ND	4.62	16.84	29.72	122.18	MVU10-6FFBK
4		#8		920022-21-ND	4.62	16.84	29.72	122.18	MVU10-8FFBK
4		#10		920022-22-ND	4.62	16.84	29.72	122.18	MVU10-10FFBK
5		#6		920024-07-ND	5.05	18.39	32.45	133.41	MVU10-6FLK
5		1/4	.250 (6.35)	920024-13-ND	5.83	21.24	37.49	154.11	MVU10-14FLK
8		—		920030-03-ND	4.26	15.53	27.41	112.68	MVU10BCK
9		.250”		920040-06-ND	6.38	23.26	41.04	168.72	MVI10-250DFK
10		.250”		920042-05-ND	4.19	15.25	26.91	110.65	MVU10-250DMK
2		.250”		920044-21-ND◆	7.00	25.51	45.01	185.05	MNI10-250DFIK
11		.250”	.250 (6.35)	920046-05-ND◆	7.59	27.64	48.78	200.53	MNU10-250DMIK
12		6/8/10		920010-59-ND	5.80	21.13	37.29	153.31	MV10-610R
Uninsulated — RoHS Compliant									
14	22-18	#4	—	920010-13-ND	1.68	6.12	10.80	44.38	MU18-4R/SK
14		#6	—	920010-14-ND	1.68	6.12	10.80	44.38	MU18-6R/SK
14		#8	—	920010-15-ND	1.68	6.12	10.80	44.38	MU18-8R/LK
14		#10	—	920010-16-ND	1.59	5.79	10.21	41.99	MU18-10R/LK
14		1/4	—	920010-17-ND	2.64	9.63	16.99	69.85	MU18-14R/SK
15		#4	—	920020-06-ND	1.68	6.12	10.80	44.38	MU18-4FB/SK
15		#6	—	920020-07-ND	1.68	6.12	10.80	44.38	MU18-6FB/SK
15		#8	—	920020-08-ND	1.82	6.64	11.71	48.14	MU18-8FBK
15		#10	—	920020-09-ND	1.68	6.12	10.80	44.38	MU18-10FBK
16		#6	—	920024-15-ND	1.75	6.38	11.25	46.26	MU18-6FLK
16		#8	—	920024-16-ND	1.75	6.38	11.25	46.26	MU18-8FLK
16		#10	—	920024-17-ND	1.75	6.38	11.25	46.26	MU18-10FLK
17		#6	—	920022-05-ND	1.89	6.88	12.14	49.90	MU18-6FFBK
18		—	—	920030-07-ND	2.70	9.84	17.37	71.39	M18BCK
14	16-14	#4	—	920010-19-ND	1.68	6.12	10.80	44.38	MU14-4R/SK
14		#6	—	920010-20-ND	1.68	6.12	10.80	44.38	MU14-6R/SK
14		#8	—	920010-21-ND	1.68	6.12	10.80	44.38	MU14-8R/LK
14		#10	—	920010-22-ND	1.68	6.12	10.80	44.38	MU14-10RK
14		1/4	—	920010-23-ND	2.64	9.63	16.99	69.85	MU14-14R/SK
15		#8	—	920020-11-ND	1.68	6.12	10.80	44.38	MU14-8FBK
15		#10	—	920020-12-ND	1.68	6.12	10.80	44.38	MU14-10FBK
16		#6	—	920024-19-ND	1.75	6.38	11.25	46.26	MU14-6FLK
16		#10	—	920024-21-ND	1.75	6.38	11.25	46.26	MU14-10FLK
16		1/4	—	920024-22-ND	2.87	10.44	18.42	75.73	MU14-14FLK
17		#8	—	920022-09-ND	1.79	6.51	11.49	47.23	MU14-8FFBK
17		#10	—	920022-10-ND	1.79	6.51	11.49	47.23	MU14-10FFBK
18		—	—	920030-08-ND	2.70	9.84	17.37	71.39	M14BCK
14	12-10	#4	—	920010-24-ND	2.56	9.31	16.43	67.53	MU10-4R/SK
14		#6	—	920010-25-ND	2.56	9.31	16.43	67.53	MU10-6RK
14		#8	—	920010-26-ND	2.56	9.31	16.43	67.53	MU10-8RK
14		#10	—	920010-27-ND	2.56	9.31	16.43	67.53	MU10-10RK
14		1/4	—	920010-28-ND	3.05	11.11	19.61	80.61	MU10-14R/SK
15	12-10	#6	—	920020-13-ND	2.56	9.31	16.43	67.53	MU10-6FBK
16		#6	—	920024-23-ND	2.48	9.05	15.97	65.65	MU10-6FLK
17		#8	—	920022-12-ND	2.54	9.25	16.33	67.12	MU10-8FFBK
17		#10	—	920022-13-ND	2.54	9.25	16.33	67.12	MU10-10FFBK
18		—	—	920030-09-ND	4.05	14.77	26.06	107.14	M10BCK
19A	26-20	.110”	—	920044-06-ND	1.98	7.20	12.71	52.24	MU20-110/32DFK
19B	22-18	.187”	—	920044-07-ND	1.82	6.64	11.72	48.16	MU18-187DFK
19A		.250”	—	920044-08-ND	1.82	6.64	11.72	48.16	MU18-250DFK
19A	16-14	.110”	—	920044-09-ND	1.82	6.64	11.72	48.16	MU14-110DFK
19B		.187”	—	920044-10-ND	1.82	6.64	11.72	48.16	MU14-187DFK
19A		.250”	—	920044-11-ND	1.82	6.64	11.72	48.16	MU14-250DFK
20A	22-18	.187”	—	920044-12-ND	2.30	8.38	14.80	60.83	MU18-187DF/FLAGK
20B		.250”	—	920044-13-ND	2.30	8.38	14.80	60.83	MU18-250DF/FLAGK
20B	16-14	.250”	—	920044-15-ND	2.30	8.38	14.80	60.83	MU14-250DF/FLAGK
21	22-18	.187”	—	920042-06-ND	1.76	6.41	11.32	46.53	MU18-187DMK
21		.250”	—	920042-07-ND	1.76	6.41	11.32	46.53	MU18-250DMK
21	16-14	.250”	—	920042-09-ND	1.76	6.41	11.32	46.53	MU14-250DMK
Multi-Stack Adapters — RoHS Compliant									
30	22-18	.250”	—	920084-01-ND	5.72	20.82	36.75	151.07	MVU18-250DMFK
30	16-14	.250”	—	920084-02-ND	5.72	20.82	36.75	151.07	MVU14-250DMFK
31A	—	.250”	—	920082-01-ND	4.52	16.48	29.08	119.57	MA250DMFMK
31B		.250”	—	920082-02-ND	3.05	11.11	19.60	80.58	MA250DMMFK

◆ ***RoHS Compliant***

(Continued)

3M Terminals, Tools, Lugs and Connectors *(Cont.)*

Fig.	AWG	Stud Size	Insul. Dia. Inch (mm)	Digi-Key Part No.	Pricing 10	50	100	500	3M Part No.
Heat Shrink Insulated									
24	**22-18 Red**	—	.145 (3.68)	920030-10-ND◆	8.04	29.29	51.70	212.53	MH18BCK
22	**16-14 Blue**	#8 5/16	.170 (4.32)	920010-49-ND◆	10.51	47.03	77.47	304.34	MH14-8R/LK
22	**16-14 Blue**	3/8	.170 (4.32)	920010-53-ND	10.25	42.22	66.35	261.77	MH14-38RK
23		#6		920024-30-ND◆	9.41	38.73	60.87	240.14	MH14-6FLK
24		—		920030-11-ND◆	8.04	29.29	51.70	212.53	MH14BCK
22	**12-10 Yellow**	1/4	.250 (6.35)	920010-55-ND◆	9.76	35.56	62.76	258.00	MH10-14RK
23		#8		920024-34-ND◆	9.30	33.87	59.76	245.69	MH10-8FLK
23		#10		920024-35-ND◆	9.30	33.87	59.76	245.69	MH10-10FLK
24		—		920030-12-ND◆	10.38	37.82	66.74	274.38	MH10BCK
25		—		920042-13-ND◆	13.58	49.46	87.28	358.83	MNHU10-250DMIK
26	**22-18**	—	.150 (3.81)	920074-01-ND◆	3.99	14.55	25.67	105.53	951K
26	**18-14**	—		920074-02-ND◆	3.99	14.55	25.67	105.53	952K
26	**12**	—		920074-03-ND◆	4.30	15.66	27.64	113.63	953K
27	**22-16 Red**	—	.120 (3.05)	920074-06-ND◆	5.05	18.41	32.49	133.57	557 (BOXED)
28		—		920074-07-ND◆	5.28	19.23	33.93	139.49	558 (BOXED)
29	**18-14 Blue**	—	.145 (3.68)	920074-08-ND◆	3.21	11.68	20.61	84.73	560 (BOXED)
923000-I-ND	3M Insulated Terminal Kit — 650 assorted terminals (14 sizes), 200 cable ties (100 each, 2 sizes), one wire marker dispenser, one crimping tool, one reusable metal box, one reordering information card................. **$203.80**								

Connectors and Crimp Tools

Fig.	AWG	Description	Color	Digi-Key Part No.	Pricing 10	50	100	500	3M Part No.
Scotchlok™ Connectors									
32	**22-14**	Closed End Electrical	Clear	920030-13-ND◆	2.80	10.19	17.98	73.92	MN14CEC/STK
33	**18-10**		Clear	920030-14-ND◆	3.60	13.11	23.13	95.09	MN10CEC/STK
33	**14-8**		Gray	920090-01-ND	6.56	23.89	42.15	173.30	G-BULK
33	**22-10**	Nylon Spring Connector	Yellow	920074-04-ND◆	2.17	7.89	13.93	57.25	312-BULK
33	**20-8**		Red	920074-05-ND◆	2.84	10.36	18.28	75.16	512-BULK
34	**12-8**	Spring Connector	Blue/Green	920090-04-ND	8.32	30.32	53.51	219.97	B/G+BOX
34	**22-12**		Orange/Blue	920090-05-ND	1.95	7.11	12.56	51.62	O/B+BOX
34	**18-8**		Red/Yellow	920090-06-ND	3.10	11.31	19.96	82.05	R/Y+BOX
34	**22-8**		Tan/Red	920090-07-ND	2.95	10.74	18.95	77.89	T/R+BOX
Crimp Tools									
—	**22-10**	Ratcheting	—	TR-482-ND	237.35/1				TR-482
35	**26-6**	Scissor Style	—	TH-450-ND	53.94/1				TH-450

◆ *RoHS Compliant*

Terminals

Fig. 1

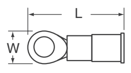

Fig. 2

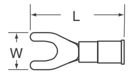

Fig. 3

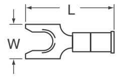

Fig. 4

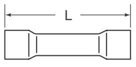

Fig. 5

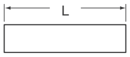

Fig. 6

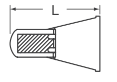

Fig. 7

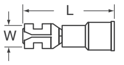

Fig. 8

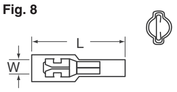

Fig. 9

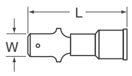

Fig. 10

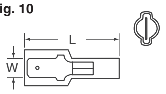

Fig. 11

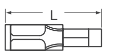

Fig. 12

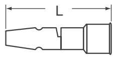

Fig. 13

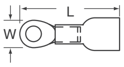

Fig. 14

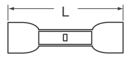

Fig.	AWG	Stud Size	Dim. Inch Length	Dim. Inch Width	Digi-Key Part No.	Pricing 10	50	100	500	3M Part No.
Vinyl Insulated Butted Seam Ring Tongue Terminals										
1	**22-18 Red**	#6	0.80	0.25	94725-01-ND	1.47	5.36	9.45	38.85	94725
		#8	0.90	0.33	94727-01-ND	1.47	5.36	9.45	38.85	94727
		#10	0.90	0.33	94717-01-ND	1.47	5.36	9.45	38.85	94717
		1/4	1.08	0.47	94719-01-ND	1.75	6.39	11.27	46.34	94719
	16-14 Blue	#6	0.90	0.33	94736-01-ND◆	1.47	5.36	9.45	38.85	94736
		#8	0.90	0.33	94739-01-ND	1.47	5.36	9.45	38.85	94739
		#10	0.90	0.33	94729-01-ND	1.47	5.36	9.45	38.85	94729
		1/4	1.08	0.47	94731-01-ND	1.75	6.39	11.27	46.34	94731
		5/16	1.08	0.47	94735-01-ND	2.08	7.59	13.39	55.04	94735
		3/8	1.13	0.56	94733-01-ND	2.08	7.59	13.39	55.04	94733
	12-10 Yellow	#6	0.98	0.28	94751-01-ND	1.81	6.58	11.61	47.73	94751
		#8	1.03	0.38	94753-01-ND	1.95	7.11	12.56	51.62	94753
		#10	1.03	0.38	94741-01-ND	1.81	6.58	11.61	47.73	94741
		1/4	1.26	0.53	94743-01-ND	2.09	7.60	13.41	55.13	94743
		5/16	1.26	0.53	94749-01-ND	2.19	7.98	14.09	57.91	94749
		3/8	1.29	0.59	94745-01-ND	2.19	7.98	14.09	57.91	94745
Nylon Insulated with Insulation Grip Ring Tongue Terminals — RoHS Compliant										
1	**28-18 Red**	#6	0.79	0.25	94724-01-ND	2.24	8.16	14.40	59.20	94724
		#8	0.89	0.33	94726-01-ND	2.24	8.16	14.40	59.20	94726
	16-14 Blue	#10	0.89	0.33	94728-01-ND	2.24	8.16	14.40	59.20	94728
		5/16	1.09	0.47	94734-01-ND	2.78	10.14	17.89	73.54	94734
		3/8	1.14	0.56	94732-01-ND	3.12	11.36	20.05	82.42	94732
	12-10 Yellow	#6	0.98	0.28	94750-01-ND	2.79	10.15	17.91	73.63	94750
Nylon Insulated Brazed Seam Ring Tongue Terminals										
1	**8 Red**	1/4	1.26	0.47	94754-01-ND◆	7.22	26.32	46.44	190.92	94754
	6 Blue	3/8	1.58	0.63	94759-01-ND◆	8.05	29.33	51.75	212.75	94759
	4 Yellow	3/8	1.74	0.68	94763-01-ND	13.49	60.35	99.40	390.50	94763
		1/2			94764-01-ND	14.30	63.96	105.35	413.88	94764
Vinyl Insulated Butted Seam Fork Terminals										
2	**22-18 Red**	#6	0.90	0.34	94769-01-ND	1.42	5.18	9.14	37.56	94769
		#8			94771-01-ND	1.42	5.18	9.14	37.56	94771
	16-14 Blue	#6	0.90	0.34	94775-01-ND	1.42	5.18	9.14	37.56	94775
		#8			94777-01-ND	1.42	5.18	9.14	37.56	94777
		#10			94773-01-ND	1.42	5.18	9.14	37.56	94773
Vinyl Insulated Butted Seam Locking Fork Terminals										
3	**22-18 Red**	#6	0.88	0.25	94865-01-ND	1.54	5.60	9.88	40.61	94865
		#8		0.30	94867-01-ND	1.54	5.60	9.88	40.61	94867
	16-14 Blue	#6	0.88	0.25	94873-01-ND	1.54	5.60	9.88	40.61	94873
		#8		0.30	94875-01-ND	1.54	5.60	9.88	40.61	94875
Nylon Insulated with Insulation Grip Locking Fork Terminals — RoHS Compliant										
3	**22-18 Red**	#6	0.87	0.25	94864-01-ND	2.35	8.57	15.12	62.16	94864
		#8		0.30	94866-01-ND	2.35	8.57	15.12	62.16	94866
		#10		0.32	94862-01-ND	2.35	8.57	15.12	62.16	94862
	16-14 Blue	#8	0.89	0.30	94874-01-ND	2.35	8.57	15.12	62.16	94874
Vinyl Insulated Butted Seam Butt Connectors										
4	**22-18 Red**	—	1.02	—	94785-01-ND	1.54	5.60	9.88	40.61	94785
	16-14 Blue	—	1.02	—	94788-01-ND	1.54	5.60	9.88	40.61	94788
	12-10 Yellow	—	1.05	—	94791-01-ND	1.91	6.96	12.29	50.51	94791
Vinyl Insulated Brazed Seam Butt Connectors — RoHS Compliant										
4	**8 Red**	—	1.43	—	94793-01-ND	7.01	25.55	45.09	185.37	94793
Nylon Insulated with Insulation Grip Butt Connectors — RoHS Compliant										
4	**22-18 Red**	—	1.01	—	94784-01-ND	4.43	16.14	28.49	117.11	94784
Nylon Insulated Seamless Butt Connectors — RoHS Compliant										
5	**22-18 Red**	—	1.02	—	94786-01-ND	2.18	7.96	14.04	57.72	94786
5	**16-14 Blue**	—	1.02	—	94789-01-ND	2.18	7.96	14.04	57.72	94789
	12-10 Yellow	—		—	94792-01-ND	2.79	10.15	17.91	73.63	94792
Nylon Insulated Closed End Connectors — RoHS Compliant										
6	**22-14**	—	0.76	—	94813-01-ND	1.73	6.30	11.12	45.70	94813
	18-10	—	0.85	—	94796-01-ND	1.73	6.30	11.12	45.70	94796
Vinyl Insulated Butted Seam Female Disconnects										
7	**22-18 Red**	—	0.78	0.187	94800-01-ND	1.54	5.60	9.88	40.61	94800
		—	0.87	0.250	94804-01-ND	1.54	5.60	9.88	40.61	94804
	16-14 Blue	—	0.78	0.187	94817-01-ND◆	2.09	9.33	15.37	60.36	94817
		—	0.87	0.250	94821-01-ND	1.54	5.60	9.88	40.61	94821
Nylon Insulated with Insulation Grip Female Disconnects — RoHS Compliant										
7	**22-18 Red**	—	0.77	0.187	94797-01-ND	2.31	8.42	14.85	61.05	94797
		—	0.86	0.250	94801-01-ND	2.31	8.42	14.85	61.05	94801
	16-14 Blue	—	0.86	0.250	94818-01-ND	2.31	8.42	14.85	61.05	94818
Fully Nylon Insulated Butted Seam Female Disconnects — RoHS Compliant										
8	**22-18 Red**	—	0.81	0.187	94799-01-ND	2.51	9.14	16.13	66.32	94799
		—	0.91	0.250	94803-01-ND	2.31	8.42	14.85	61.05	94803
	16-14 Blue	—	0.81	0.187	94816-01-ND	2.51	9.14	16.13	66.32	94816
		—	0.91	0.250	94820-01-ND	2.31	8.42	14.85	61.05	94820
	12-10 Yellow	—	0.99	0.250	94832-01-ND	2.84	10.35	18.27	75.11	94832
Vinyl Insulated Butted Seam Male Disconnects										
9	**22-18 Red**	—	0.85	0.187	94808-01-ND	1.54	5.60	9.88	40.61	94808
		—	0.93	0.250	94812-01-ND	1.54	5.60	9.88	40.61	94812
	16-14 Blue	—	0.93	0.250	94829-01-ND	1.54	5.60	9.88	40.61	94829
	12-10 Yellow	—	1.05	0.250	94837-01-ND	1.69	6.15	10.85	44.59	94837
Nylon Insulated with Insulation Grip Male Disconnects — RoHS Compliant										
9	**22-18 Red**	—	0.84	0.187	94805-01-ND	2.31	8.42	14.85	61.05	94805
		—	0.92	0.250	94809-01-ND	2.31	8.42	14.85	61.05	94809
	16-14 Blue	—	0.86	0.187	94822-01-ND	2.31	8.42	14.85	61.05	94822
		—	0.94	0.250	94826-01-ND	2.31	8.42	14.85	61.05	94826
Fully Nylon Insulated Butted Seam Male Disconnects — RoHS Compliant										
10	**22-18 Red**	—	0.87	0.187	94807-01-ND	2.51	9.14	16.13	66.32	94807
		—	0.98	0.250	94811-01-ND	2.31	8.42	14.85	61.05	94811
	16-14 Blue	—	0.98	0.250	94828-01-ND	2.31	8.42	14.85	61.05	94828
	12-10 Yellow	—	1.05	0.250	94836-01-ND	2.84	10.35	18.27	75.11	94836
Fully Nylon Insulated with Insulation Grip Male Disconnects — RoHS Compliant										
10	**22-18 Red**	—	0.95	0.250	94810-01-ND	2.90	10.57	18.65	76.68	94810
	16-14 Blue	—	0.87	0.187	94823-01-ND	3.15	11.46	20.23	83.16	94823
		—	0.95	0.250	94827-01-ND	2.90	10.57	18.65	76.68	94827
Nylon Insulated Butted Seam Bullet Style Female Disconnects — RoHS Compliant										
11	**16-14 Blue**	.180”	1.02	—	94843-01-ND	2.57	9.37	16.54	67.99	94843
Nylon Insulated with Insulation Grip Bullet Style Female Disconnects — RoHS Compliant										
11	**22-18 Red**	.156”	1.02	—	94838-01-ND	2.46	8.95	15.80	64.94	94838
Nylon Insulated with insulation Grip Bullet Style Male Disconnects — RoHS Compliant										
12	**22-18 Red**	.156”	0.85	—	94840-01-ND	2.35	8.57	15.12	62.16	94840
Heat Shrink Brazed Seam Ring Tongue Terminals										
13	**22-18 Red**	#8	1.0	0.31	94860-01-ND	11.06	49.47	81.48	320.10	94860
		#10			94858-01-ND	11.06	49.47	81.48	320.10	94858
	16-14 Blue	#6	1.0	0.31	94855-01-ND	11.06	49.47	81.48	320.10	94855
		#8	1.0	0.31	94852-01-ND	12.01	53.72	88.48	347.60	94852
		5/16	1.1	0.47	94854-01-ND	11.32	50.66	83.44	327.80	94854
		3/8	1.1	0.56	94853-01-ND	12.01	53.72	88.48	347.60	94853
	12-10 Yellow	#10	1.1	0.38	94846-01-ND	13.43	60.10	98.98	388.85	94846
		1/4	1.2	0.59	94847-01-ND◆	10.28	37.43	66.06	271.58	94847
Heat Shrink Seamless Butt Connectors — RoHS Compliant										
14	**12-10 Yellow**	—	1.5	—	94850-01-ND	10.67	38.86	68.58	281.94	94850

◆ *RoHS Compliant*

3M Scotchlok™ Discrete Connectors and Tools

RoHS COMPLIANT

Features: 3M™ Scotchlok™ connectors have been providing ease of use and proven high quality reliability for over 50 years. With a "U" element and IDC design, they continue to be effective for transmitting broadband services with performance up to 100MHz. They are available for butt, in-line or tap splicing of solid copper or aluminum conductors and have a wide selection of tools to meet all discrete splicing needs.

Fig. 1

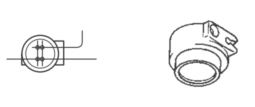

Fig. 2

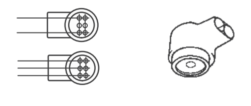

Fig. 3

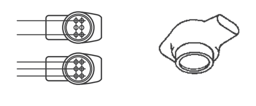

Fig. 4

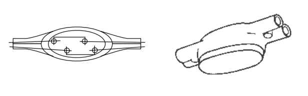

Fig. 5

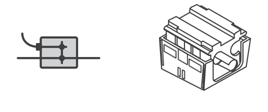

Fig. 6

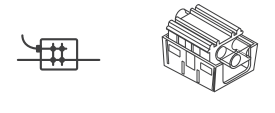

Fig. 7

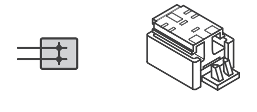

Fig. 8

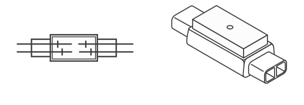

Fig.	Max. Insulation (mm)	Wire AWG	Use Tool # *(below)*	Gel Filled	Wire Count	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	3M Part No.
1	1.67 Butt 1.12 Tap	26 ~ 19 Butt 26 ~ 22 Tap	1, 2, 3, 4, 5	Yes	2-Wire	UG20082-ND†	.49	3.69	27.65	UG(BX)*
2	1.52	26 ~ 22	1, 2, 3, 4, 5	Yes	2-Wire	UCC1000-ND†‡★	.33	2.46	18.43	UCC(BULK)*
	1.52	26 ~ 22	1, 2, 3, 4, 5	No	2-Wire	UP2000-ND★▲	.29	2.15	16.13	UP2-BULK
	1.52	26 ~ 22	1, 2, 3, 4, 5	No	2-Wire	UPC1000-ND‡★▲	.74	5.53	41.47	UPC(BULK)
	2.08	26 ~ 19	1, 2, 3, 5	Yes	2 or 3-Wire	UR2000-ND†◊	.29	2.15	16.13	UR2-BULK*
	2.08	26 ~ 19	1, 2, 3, 4, 5	Yes	2-Wire	UY2000-ND†◊	.25	1.84	13.82	UY2-BOX*
	2.08	26 ~ 19	6	No	2-Wire	UY2100-ND◊∆§	2.50	18.74	166.61	UY2-D(CART)
	1.52	26 ~ 22	1, 2	Yes	2-Wire	UY14911-ND†★	.29	2.15	16.13	UY(BX)*
3	2.08	20 ~ 17AL 24 ~ 19CU	1, 2, 3, 5	Yes	2 or 3-Wire	UAL27827-ND†	.86	6.45	48.38	UAL(BX)
	2.08	20 ~ 17AL 24 ~ 19CU	6	Yes	2 or 3-Wire	UAL27828-ND†§	—	53.87	478.80	UAL(CART)
	1.52	26 ~ 19	1, 2	Yes	2 or 3-Wire	UR20074-ND†	.33	2.46	18.43	UR(BX)*
	1.52	26 ~ 19	1, 2, 3, 5	No	2 or 3-Wire	UP3000-ND▲	.37	2.77	20.75	UP3(BOX)
4	3.18	19 ~ 16	5	Yes	4-Wire	U1B1000-ND†	4.20	31.50	236.25	U1B(BX)
	3.18	24 ~ 19	5	Yes	4-Wire	U1R20017-ND†	4.20	31.50	236.25	U1R(BX)
5	1.27	26 ~ 22	1, 2, 3, 4, 5	No	2-Wire	UPB1000-ND▲	.41	3.07	23.04	UPB(BULK)
6	2.08	26 ~ 19	1, 2, 3, 4, 5	Yes	2-Wire	UB2A1000-ND†◊	.33	2.46	18.43	UB2A-BOX*
	2.08	26 ~ 19	1, 2, 3, 4, 5	No	2-Wire	UB2A1100-ND▲◊	.37	2.77	20.75	UB2A-D-BOX
7	2.08	26 ~ 19	1, 2	Yes	2-Wire	U2A1000-ND†◊	.49	3.69	27.65	211(BX)*
8	4.4	19 ~ 16	5	Yes	4-Wire	UDW2000-ND†	4.67	35.02	262.67	UDW2

† Moisture Resistant ‡ Clearing Caps, No electrical connection ★ Single Element ▲ Dry/Flame Retardant ◊ Solvent Resistant ∆ Dry § UY2100-ND - 12 per carton, UAL27828-ND - 10 per carton

Tools

Tool #	Mechanical Advantage	Digi-Key Part No.	Price Each	3M Part No.
1	10:1	E-9J-ND	42.08	E-9J
2	10:1	E-9R-ND§	92.31	E-9R
3	4:1	E-9E-ND	34.50	E-9E
4	3:1	E-9Y-ND§	29.93	E-9Y
5	10:1	E-9BM-ND	63.68	E-9BM
6	7:1	E-9C-ND	168.44	E-9C

§ Integrated Wire Cutter

Tool #1

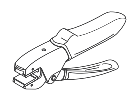

Tool #2

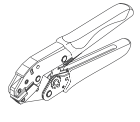

Tool #3

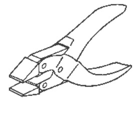

Tool #4

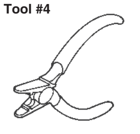

Tool #5

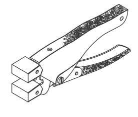

Tool #6

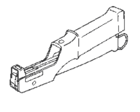

PANDUIT®
ELECTRICAL GROUP

NEW! Wire Terminals

RoHS COMPLIANT

Fig. 1

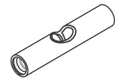

Fig. 2

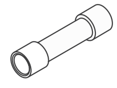

Fig. 3

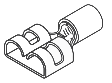

Fig. 4

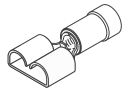

Fig. 5

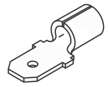

Fig. 6

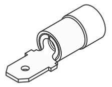

Fig. 7

Fig. 8

Fig. 9

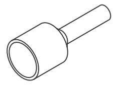

Fig.	Description	Approvals	Digi-Key Part No.	Pricing 50	Pricing 100	Panduit Part No.	Digi-Key Part No.	Pricing 500	Pricing 1,000	Panduit Part No.
				Butt Splices						
1	Butt Splice, Non-Insulated, 12 ~ 10AWG	UL, CSA	298-9981-ND	29.57	—	BS10-L	298-9980-ND	113.36	—	BS10-D
	Butt Splice, Non-Insulated, 16 ~ 14AWG	UL, CSA	298-9982-ND	—	46.17	BS14-C	298-9983-ND	—	135.93	BS14-M
	Butt Splice, Non-Insulated, 22 ~ 18AWG	UL, CSA	298-9984-ND	—	44.41	BS18-C	298-9985-ND	—	142.82	BS18-M
	Butt Splice, Non-Insulated, 26 ~ 22AWG	—	298-9986-ND	—	61.81	BS22-C	298-9987-ND	—	1458.15	BS22-M
2	Butt Splice, Nylon, 12 ~ 10AWG	UL, CSA	298-9989-ND	56.92	—	BSN10-L	298-9988-ND	235.76	—	BSN10-D
	Butt Splice, Nylon, 16 ~ 14AWG	UL, CSA	298-9990-ND	—	84.82	BSN14-C	298-9991-ND	—	385.84	BSN14-M

(Continued)

Wire Terminals *(Cont.)*

Fig.	Description	Approvals	Digi-Key Part No.	Pricing 50	100	Panduit Part No.	Digi-Key Part No.	Pricing 500	1,000	Panduit Part No.
2	Butt Splice, Nylon, 22 ~ 18AWG	UL, CSA	298-9992-ND	—	84.82	BSN18-C	298-9993-ND	—	385.84	BSN18-M
	Butt Splice, Nylon, 26 ~ 22AWG	—	298-9994-ND	—	100.79	BSN22-C	298-9995-ND	—	424.51	BSN22-M
	Butt Splice, Vinyl, 12 ~ 10AWG	UL, CSA	298-9997-ND	43.45	—	BSV10X-L	298-9996-ND	244.68	—	BSV10X-D
	Butt Splice, Vinyl, 16 ~ 14AWG	UL, CSA	298-9998-ND	—	63.91	BSV14X-C	298-9999-ND	—	360.08	BSV14X-M
	Butt Splice, Vinyl, 22 ~ 18AWG	UL, CSA	298-10000-ND	—	64.51	BSV18X-CY	—	—	—	—
	Disconnects									
3	Disconnect Female, Non-Insulated, 12 ~ 10AWG	UL, CSA	298-10002-ND	45.84	—	D10-250-L	298-10001-ND	135.32	—	D10-250-D
	Disconnect Female, Non-Insulated, 16 ~ 14AWG	UL, CSA	298-10005-ND	—	57.74	D14-187-C	298-10006-ND	—	134.76	D14-187-M
	Disconnect Female, Non-Insulated, 16 ~ 14AWG	UL, CSA	298-10007-ND	—	52.91	D14-250-C	298-10008-ND	—	134.76	D14-250-M
	Disconnect Female, Non-Insulated, 22 ~ 18AWG	UL, CSA	298-10011-ND	—	57.74	D18-187-C	298-10012-ND	—	134.76	D18-187-M
	Disconnect Female, Non-Insulated, 22 ~ 18AWG	UL, CSA	298-10013-ND	—	57.81	D18-250-C	298-10014-ND	—	134.76	D18-250-M
4	Disconnect Female, Nylon, 16 ~ 14AWG, .187”	UL, CSA	298-10019-ND	—	103.89	DNF14-187-C	298-10020-ND	—	264.14	DNF14-187-M
	Disconnect Female, Nylon, 16 ~ 14 AWG, .25”	UL, CSA	298-10021-ND	—	93.35	DNF14-250-C	298-10022-ND	—	389.38	DNF14-250-M
	Disconnect Female, Nylon, 22 ~ 18AWG, .187”	UL, CSA	298-10025-ND	—	93.09	DNF18-187-C	298-10026-ND	—	254.19	DNF18-187-M
	Disconnect Female, Nylon, 22 ~18AWG, .25”	UL, CSA	298-10027-ND	—	93.09	DNF18-250-C	298-10028-ND	—	244.55	DNF18-250-M
	Disconnect Female, Vinyl, 12 ~ 10AWG, .25”	UL, CSA	298-10032-ND	49.60	—	DV10-250-L	298-10031-ND	251.55	—	DV10-250-D
5	Disconnect Male, Non-Insulated, 12 ~ 10AWG	—	298-10004-ND	28.00	—	D10-250M-L	298-10003-ND	121.04	—	D10-250M-D
	Disconnect Male, Non-Insulated, 16 ~ 14AWG	—	298-10009-ND	—	58.03	D14-250MB-C	298-10010-ND	—	107.61	D14-250MB-M
	Disconnect Male, Non-Insulated, 22 ~ 18AWG	—	298-10015-ND	—	54.87	D18-250MB-C	298-10016-ND	—	93.12	D18-250MB-M
6	Disconnect Male, Nylon, 12 ~ 10AWG, .25”	CSA	298-10018-ND	60.59	—	DNF10-250M-L	298-10017-ND	237.27	—	DNF10-250M-D
	Disconnect Male, Nylon, 16 ~ 14 AWG, .25”	CSA	298-10023-ND	—	105.69	DNF14-250M-C	298-10024-ND	—	407.61	DNF14-250M-M
	Disconnect Male, Nylon, 22 ~ 18AWG, .25”	CSA	298-10029-ND	—	105.69	DNF18-250M-C	298-10030-ND	—	255.83	DNF18-250M-M
	Terminal Rings									
7	Terminal Ring, Non-Insulated, 16 ~ 14AWG, 1/4”	UL, CSA	298-10049-ND	29.08	—	P10-14R-L	298-10048-ND	92.26	—	P10-14R-D
	Terminal Ring, Non-Insulated, 16 ~ 14AWG, 3/8”	UL, CSA	298-10051-ND	29.08	—	P10-38R-L	298-10050-ND	105.50	—	P10-38R-D
	Terminal Ring, Non-Insulated, 16 ~ 14AWG, #10	UL, CSA	298-10052-ND	—	38.48	P14-10R-C	298-10053-ND	—	1601.54	P14-10R-M
	Terminal Ring, Non-Insulated, 16 ~ 14AWG, 1/4”	UL, CSA	298-10054-ND	—	54.97	P14-14R-C	298-10055-ND	—	141.80	P14-14R-M
	Terminal Ring, Non-Insulated, 16 ~ 14AWG, 3/8”	UL, CSA	298-10056-ND	—	52.41	P14-38R-C	298-10057-ND	—	165.63	P14-38R-M
	Terminal Ring, Non-Insulated, 22 ~ 18AWG, #10	UL, CSA	298-10058-ND	—	36.71	P18-10R-C	298-10059-ND	—	102.47	P18-10R-M
	Terminal Ring, Non-Insulated, 22 ~ 18AWG, #4	UL, CSA	298-10060-ND	—	35.32	P18-4R-C	298-10061-ND	—	99.53	P18-4R-M
	Terminal Ring, Non-Insulated, 22 ~ 18AWG, #6	UL, CSA	298-10062-ND	—	36.71	P18-6R-C	298-10063-ND	—	102.47	P18-6R-M
	Terminal Ring, Non-Insulated, 26 ~ 22AWG, #10	—	298-10064-ND	—	33.56	P22-10R-C	298-10065-ND	—	94.16	P22-10R-M
	Terminal Ring, Non-Insulated, 26 ~ 22AWG, #4	—	298-10066-ND	—	33.56	P22-4R-C	298-10067-ND	—	94.16	P22-4R-M
	Terminal Ring, Non-Insulated, 26 ~ 22AWG, #6	—	298-10068-ND	—	33.56	P22-8R-C	298-10069-ND	—	94.16	P22-8R-M
8	Terminal Ring, Vinyl, 12 ~ 10AWG, 1/4”	UL, CSA	298-10071-ND	44.97	—	PV10-14R-L	298-10070-ND	170.33	—	PV10-14R-D
	Terminal Ring, Vinyl, 12 ~ 10AWG, 3/8”	UL, CSA	298-10073-ND	43.29	—	PV10-38R-L	298-10072-ND	176.85	—	PV10-38R-D
	Terminal Ring, Vinyl, 16 ~ 14AWG, #10	UL, CSA	298-10074-ND	—	62.62	PV14-10R-C	298-10075-ND	—	140.61	PV14-10R-M
	Terminal Ring, Vinyl, 16 ~ 14AWG, 1/4”	UL, CSA	298-10076-ND	—	75.38	PV14-14R-C	298-10077-ND	—	328.17	PV14-14R-M
	Terminal Ring, Vinyl, 16 ~ 14AWG, 3/8”	UL, CSA	298-10078-ND	36.84	—	PV14-38R-L	298-10079-ND	—	216.26	PV14-38R-M
	Terminal Ring, Vinyl, 22 ~ 18AWG, #10	UL, CSA	298-10080-ND	—	62.62	PV18-10R-CY	—	—	—	—
	Terminal Ring, Vinyl, 22 ~ 18AWG, #4	UL, CSA	298-10081-ND	—	60.95	PV18-4R-CY	—	—	—	—
	Terminal Ring, Vinyl, 22 ~18AWG, #6	UL, CSA	298-10082-ND	—	60.16	PV18-6R-CY	—	—	—	—
	Terminal Ring, Vinyl, 26 ~ 22AWG, #10	—	298-10083-ND	—	59.39	PV22-10R-C	298-10084-ND	—	161.28	PV22-10R-M
	Terminal Ring, Vinyl, 26 ~ 22AWG, #4	—	298-10085-ND	—	59.39	PV22-4R-C	298-10086-ND	—	161.28	PV22-4R-M
	Terminal Ring, Vinyl, 26 ~ 22AWG, #8	—	298-10087-ND	—	59.39	PV22-8R-C	298-10088-ND	—	161.28	PV22-8R-M
	Ferrules									
9	Ferrule Insulated, Vinyl, 3/8” 26AWG, Gray	—	—	—	—	—	298-10033-ND	83.76	—	FSD72-6-D
	Ferrule Insulated, Vinyl, 3/8” 24AWG, Turquiose	—	—	—	—	—	298-10034-ND	83.76	—	FSD74-6-D
	Ferrule Insulated, Vinyl, 3/8” 22AWG, White	—	—	—	—	—	298-10035-ND	70.30	—	FSD75-6-D
	Ferrule Insulated, Vinyl, 15/32” 22AWG, White	—	—	—	—	—	298-10036-ND	70.30	—	FSD75-8-D
	Ferrule Insulated, Vinyl, 3/8” 18AWG, Red	—	—	—	—	—	298-10038-ND	70.30	—	FSD77-6-D
	Ferrule Insulated, Vinyl, 5/8”18AWG, Red	—	—	—	—	—	298-10037-ND	70.30	—	FSD77-12-D
	Ferrule Insulated, Vinyl, 17/32” 16AWG, Black	—	—	—	—	—	298-10039-ND	100.45	—	FSD78-10-D
	Ferrule Insulated, Vinyl, 5/8” 16AWG, Black	—	—	—	—	—	298-10040-ND	100.45	—	FSD78-12-D
	Ferrule Insulated, Vinyl, 15/32” 14AWG, Yellow	—	—	—	—	—	298-10041-ND	100.45	—	FSD79-8-D
	Ferrule Insulated, Vinyl, 5/8” 12AWG, Gray	—	298-10042-ND	—	33.12	FSD81-12-C	—	—	—	—
	Ferrule Insulated, Vinyl, 3/8” 22AWG, White	—	—	—	—	—	298-10043-ND	68.30	—	FSF75-6-D
	Ferrule Insulated, Vinyl, 3/8” 18AWG, Red	—	—	—	—	—	298-10044-ND	68.30	—	FSF77-6-D
	Ferrule Insulated, Vinyl, 15/32” 16AWG, Black	—	—	—	—	—	298-10045-ND	87.82	—	FSF78-8-D
	Ferrule Insulated, Vinyl, 15/32” 14AWG, Gray	—	—	—	—	—	298-10046-ND	97.57	—	FSF80-8-D
	Ferrule Insulated, Vinyl, 7/8” 12AWG, Orange	—	298-10047-ND	—	53.62	FSF81-18-C	—	—	—	—

Copper Terminal Lug

Specifications:
• **Material:** High Conductivity Seamless Copper Tube • **Plating:** Electro-Tin • UL Listed • **UL Temperature Rating:** 90°C • CSA Certified

Stud Size	Wire Size (AWG)	Type	Dimension – Inch A	B	C	Digi-Key Part No.	Pricing 1	5	10	Panduit Part No.
		Fig. 1 – Single Hole Terminal Lug								
1/4”	14 ~ 10	Straight, Standard Barrel	.42	1.16	.27ø	298-9974-ND	1.29	4.77	8.75	LCA10-14-L
3/8”	8	Standard Barrel	.60	1.56	.41ø	298-9975-ND	3.41	13.13	24.94	LCA8-38-L
3/8”	8	Flex, Flared Barrel	.60	1.76	.41ø	298-9976-ND	3.50	13.98	25.86	LCAF8-38-L
		Fig. 2 – Two Hole Terminal Lug								
1/4”	14 ~ 10	Straight, Standard Barrel	.42	1.78	.27ø	298-9977-ND	10.85	46.91	88.40	LCD10-14A-L
1/4”	8	Standard Barrel	.48	1.97	.27ø	298-9978-ND	6.52	26.79	50.11	LCD8-14A-L
1/4”	8	Straight Flex, Standard Barrel	.48	1.83	.27ø	298-9979-ND	6.52	26.79	50.11	LCDX8-14A-L

Fig. 1

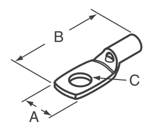

Fig. 2

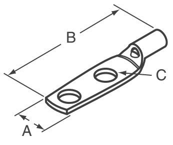

PIDG Ring Terminals

PIDG (Pre-Insulated Diamond Grip) Terminals: Meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2. **Product Facts: • Temperature Rating:** 105°C maximum **• AMP Wire:** Solid or Stranded **• Terminal Material:** The basic terminal is conducted of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. **• Copper Sleeve:** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor. **• Nylon Insulation (unless otherwise noted):** Nylon sleeve assures high dielectric strength.

PIDG Insulation Restricting Terminals: Material: • Insulation: Nylon • Terminal Body and Metallic Sleeve: Copper per ASTM B-152 • Plating: Nickel per QQ-N-290 or Tin per MIL-T-10727. Insulation Restriction Terminals prevent the insulation of thin-wall insulation wire from entering the terminal's wire crimp area during the crimping process.

PIDG Radiation Resistant: Temp. Rating: 150°C maximum **Material:** • Insulation: Polyvinylidene Fluoride (PVF$_2$) • Terminal, Splice Body & Metallic Sleeve: Copper per ASTM B-152 • Plating: Tin per MIL-T-10727

Fig. 1

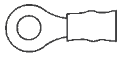

Fig. 2

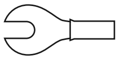

Fig. 3

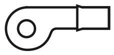

PIDG - Ring

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	1,000	Digi-Key Part No.	Reel Qty.	Tape & Reel Pricing	AMP Part No.
26-24 AWG Yellow — RoHS Compliant														
1	4	.203 x .736	.105	A27492-ND	1.07	.94	52189	—	—	—	—	—	—	—
	6	.250 x .792	.105	A27493-ND	.50	.44	53073	—	—	—	—	—	—	—
26-22 AWG Yellow — RoHS Compliant														
1	0	.140 x .525	.082	A27224-ND	1.08	.95	321013	—	—	—	—	—	—	—
	2	.140 x .525	.082	A0879-ND	.32	.29	323912	A0879CT-ND	—	259.65	A0879TR-ND	4,000	207.72/M	2-323912-1
		.140 x .615		A27225-ND	.38	.33	329951	—	—	—	—	—	—	—
	4	.203 x .646	.082	A0880-ND	.33	.30	323914	—	—	—	—	—	—	—
	6	.203 x .646	.082	A0881-ND	.32	.29	323915	—	—	—	—	—	—	—
		.250 x .740		A27226-ND	.33	.30	326875	A27226CT-ND	—	231.75	A27226TR-ND	4,000	185.40/M	2-326875-1
	8	.250 x .740	.082	A0882-ND	.39	.34	323916	A0882CT-ND	—	463.45	A0882TR-ND	4,000	370.76/M	2-323916-1
	10	.250 x .740	.082	A0883-ND	.40	.35	324075	—	—	—	—	—	—	—
24-20 AWG Natural — RoHS Compliant														
1	2	.160 x .589	.100	A27495-ND	.92	.81	329636	—	—	—	—	—	—	—
	6	.281 x .774		A27496-ND	.40	.36	323986	—	—	—	—	—	—	—
	8	.312 x .821		A27497-ND	.40	.36	323989	—	—	—	—	—	—	—
	10	.312 x .821		A27498-ND	.42	.37	323990	—	—	—	—	—	—	—
22-16 AWG Red — RoHS Compliant														
1	2	.182 x .669	.125	A27499-ND	1.08	.95	324158	—	—	—	—	—	—	—
		.182 x .669	.140	A27500-ND	.32	.29	320773	—	—	—	—	—	—	—
		.218 x .672	.125	A0884-ND	.32	.29	328657	—	—	—	—	—	—	—
	4	.182 x .669	.140	A27228-ND	.47	.41	320882	A27228CT-ND	—	336.15	A27228TR-ND	5,000	268.92/M	2-320882-1
		.218 x .672	.125	A27227-ND	.33	.30	320553	A27227CT-ND	—	231.75	A27227TR-ND	5,000	185.40/M	2-320553-2
		.218 x .672	.140	A1087-ND	.33	.30	31880	A1087CT-ND	—	231.75	A1087TR-ND	5,000	185.40/M	2-31880-1
		.250 x .844	.125	A27229-ND	.46	.41	323758	A27229CT-ND	—	563.15	A27229TR-ND	5,000	450.52/M	2-323758-1
		.250 x .844	.140	A27230-ND	.46	.41	330648	—	—	—	—	—	—	—
	6	.218 x .672	.125	A27231-ND	.33	.30	36149	A27231CT-ND	—	231.75	A27231TR-ND	5,000	185.40/M	2-36149-2
		.218 x .672	.140	A27232-ND	.33	.30	36150	A27232CT-ND	—	231.75	A27232TR-ND	5,000	185.40/M	2-36150-1
		.250 x .782	.125	A27233-ND	.25	.22	51863	A27233CT-ND	—	185.48	A27233TR-ND	5,000	148.38/M	51863-1
		.281 x .797	.125	A27234-ND	.24	.21	36151	A27234CT-ND	—	224.58	A27234TR-ND	5,000	179.66/M	2-36151-2
		.281 x .797	.140	A1060-ND*	.24	.21	36152	A1060CT-ND*	—	179.78	A1060TR-ND*	5,000	143.82/M	2-36152-1
		.312 x .844	.125	A27235-ND	.40	.36	323008	A27235CT-ND	—	224.58	A27235TR-ND	5,000	179.66/M	2-323008-1
		.312 x .844	.140	A27236-ND	.32	.29	326878	—	—	—	—	—	—	—
	8	.281 x .797	.125	A27239-ND	.32	.29	320554	A27239CT-ND	—	224.58	A27239TR-ND	5,000	179.66/M	2-320554-1
		.281 x .797	.140	A27238-ND	.32	.29	31886	A27238CT-ND	—	234.90	A27238TR-ND	5,000	187.92/M	2-31886-2
		.312 x .844	.140	A1061-ND	.25	.22	31890	A1061CT-ND	—	185.48	A1061TR-ND	5,000	148.38/M	2-31890-1
		.312 x .844	.125	A27511-ND	.31	.27	31888	—	—	—	—	—	—	—
		.312 x .844	.125	A27237-ND	.25	.22	320551	A27237CT-ND	—	185.48	A27237TR-ND	5,000	148.38/M	1-320551-1
		.344 x .876	.140	A27240-ND	1.33	1.18	32835	—	—	—	—	—	—	—
	10	.281 x .797	.125	A27243-ND	.32	.29	320552	A27243CT-ND	—	224.58	A27243TR-ND	5,000	179.66/M	2-320552-1
		.281 x .797	.140	A27242-ND	.32	.29	31887	A27242CT-ND	—	224.58	A27242TR-ND	5,000	179.66/M	2-31887-1
		.312 x .844	.125	A27241-ND	.25	.22	36153	A27241CT-ND	—	185.48	A27241TR-ND	5,000	148.38/M	2-36153-2
		.312 x .844	.140	A1062-ND	.25	.22	36154	A1062CT-ND*	—	185.48	A1062TR-ND*	5,000	148.38/M	2-36154-2
		.344 x .876	.125	A27244-ND	1.33	1.17	32836	—	—	—	—	—	—	—
		.344 x .876	.140	A27245-ND	.31	.28	32837	—	—	—	—	—	—	—
	1/4	.469 x 1.078	.125	A27246-ND	.39	.34	320571	A27246CT-ND	—	267.30	A27246TR-ND	5,000	213.84/M	2-320571-2
		.469 x 1.078	.140	A0885-ND	.39	.34	31894	A0885CT-ND	—	213.95	A0885TR-ND	5,000	171.16/M	2-31894-2
	5/16	.469 x 1.078	.125	A27247-ND	.39	.34	320572	—	—	—	—	—	—	—
		.469 x 1.078	.140	A0886-ND	.55	.48	31895	A0886CT-ND	—	267.30	A0886TR-ND	5,000	213.84/M	2-31895-1
	3/8	.531 x 1.218	.140	A0887-ND	.81	.71	31897	—	—	—	—	—	—	—
		.531 x 1.218	.125	A27248-ND	.40	.35	320573	—	—	—	—	—	—	—
	1/2	.713 x 1.293	.140	A0888-ND	1.78	1.57	328975	—	—	—	—	—	—	—
16-14 AWG Blue — RoHS Compliant														
1	4	.250 x .703	.150	A27249-ND	.35	.31	324159	A27249CT-ND	—	224.58	A27249TR-ND	5,000	179.66/M	2-324159-2
		.250 x .703	.170	A1091-ND	.32	.29	328996	A1091CT-ND	—	224.53	A1091TR-ND	5,000	179.62/M	2-328996-1
		.250 x .813	.150	A27502-ND	.88	.78	323676	—	—	—	—	—	—	—
	6	.250 x .703	.150	A27253-ND	.33	.30	320561	A27253CT-ND	—	231.75	A27253TR-ND	5,000	185.40/M	2-320561-2
		.250 x .703	.170	A1070-ND	.24	.21	320619	—	—	—	—	—	—	—
		.250 x .813	.170	A27504-ND	.51	.45	50881	—	—	—	—	—	—	—
		.312 x .813	.170	A27254-ND	.32	.29	326882	A27254CT-ND	—	224.58	A27254TR-ND	5,000	179.66/M	2-326882-1
		.312 x .844	.150	A27250-ND	.33	.30	51864	A27250CT-ND	—	231.75	A27250TR-ND	5,000	185.40/M	51864-3
		.343 x .859	.150	A27251-ND	.32	.29	36157	A27251CT-ND	—	224.58	A27251TR-ND	5,000	179.66/M	2-36157-2
		.343 x .859	.170	A27252-ND	.32	.29	36158	A27252CT-ND	—	224.58	A27252TR-ND	5,000	179.66/M	2-36158-1
	8	.312 x .813	.170	A27257-ND	.45	.40	53941-1	A27257CT-ND	—	446.63	A27257TR-ND	5,000	357.30/M	53941-2
		.312 x .844	.150	A27255-ND	.33	.30	51864-1	A27255CT-ND	—	231.75	A27255TR-ND	5,000	185.40/M	51864-5
		.343 x .859	.150	A27256-ND	.32	.29	320560	A27256CT-ND	—	224.58	A27256TR-ND	5,000	179.66/M	2-320561-1
		.343 x .859	.170	A1071-ND	.24	.21	320565	A1071CT-ND	—	179.78	A1071TR-ND	5,000	143.82/M	2-320565-1
	10	.312 x.844	.150	—	—	—	—	A28118CT-ND*	—	218.34	A28118TR-ND*	5,000	223.94/M	51861-4
		.312 x .813	.170	A27260-ND	.32	.29	53942-1	A27260CT-ND	—	224.58	A27260TR-ND	5,000	179.66/M	53942-2
		.312 x .844	.150	A27258-ND	.33	.30	51864-2	—	—	—	—	—	—	—
		.343 x .859	.150	A27259-ND	.73	.64	320574	A27259CT-ND	—	224.58	A27259TR-ND	5,000	179.66/M	2-320574-2
		.343 x .859	.170	A1072-ND	.24	.21	36160	A1072CT-ND	—	179.78	A1072TR-ND	5,000	143.82/M	2-36160-1
		.343 x .859	.170	A27512-ND*	.34	.30	31903	—	—	—	—	—	—	—
		.469 x 1.078	.170	A27261-ND	.58	.51	324533	—	—	—	—	—	—	—
	1/4	.469 x 1.078	.150	A27262-ND	.39	.34	320563	A27262CT-ND	—	267.30	A27262TR-ND	4,000	213.84/M	2-320563-2
		.469 x 1.078	.170	A0889-ND	.28	.25	321045	A0889CT-ND	—	259.05	A0889TR-ND	4,000	207.24/M	2-321045-1
	5/16	.469 x 1.078	.150	A27263-ND	.39	.34	320575	—	—	—	—	—	—	—
			.170	A0890-ND	.38	.33	328998	—	—	—	—	—	—	—
	3/8	.531 x 1.218	.150	A27264-ND	.40	.35	320564	—	—	—	—	—	—	—
			.170	A0891-ND	.40	.36	328999	—	—	—	—	—	—	—
	1/2	.713 x 1.293	.150	A27265-ND	1.14	1.01	328976	—	—	—	—	—	—	—
			.170	A0892-ND	1.11	.98	328849	—	—	—	—	—	—	—

*Vinyl Insulation

(Continued)

PIDG Ring Terminals *(Cont.)*

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Reel Qty.	Tape & Reel Pricing	AMP Part No.
16-14 AWG Yellow/Black (Heavy Duty for Extra Mechanical Strength) — RoHS Compliant														
1	6	.281 x .953	.230	A27267-ND	.53	.47	320631	—	—	—	—	—	—	—
			.250	A27266-ND	1.03	.91	35634	—	—	—	—	—	—	—
	8	.343 x 1.046	.230	A09035-ND	.58	.51	320627	A09035CT-ND	231.26	420.48	A09035TR-ND	2,500	336.38/M	1-320627-0
			.250	A27268-ND	.55	.49	35106	A27268CT-ND	295.24	536.80	A27268TR-ND	2,500	429.44/M	2-35106-1
	10	.343 x 1.046	.230	A09036-ND	.63	.55	320630	A09036CT-ND	224.21	407.65	A09036TR-ND	2,500	326.12/M	2-320630-2
			.250	A27269-ND	.57	.51	34805	—	—	—	—	—	—	—
	1/4	.500 x 1.188	.230	A27270-ND	.58	.51	34974	—	—	—	—	—	—	—
		.500 x 1.188	.250	A27506-ND	.82	.72	323682	A27506CT-ND	302.02	549.13	A27506TR-ND	2,500	439.30/M	2-323682-1
		.531 x 1.296	.230	A27271-ND	.44	.39	327743	—	—	—	—	—	—	—
		.531 x 1.296	.250	A09037-ND	1.00	.88	34806	—	—	—	—	—	—	—
	5/16	.531 x 1.296	.250	A27507-ND	1.11	.98	34810	—	—	—	—	—	—	—
	3/4	1.25 x 2.219	.250	A27509-ND	2.75	2.42	322724	—	—	—	—	—	—	—
	3/8	.531 x 1.296	.230	A27508-ND	.82	.73	330896	—	—	—	—	—	—	—
	1/2	.750 x 1.594	.250	A09038-ND	2.17	1.91	35316	—	—	—	—	—	—	—
12-10 AWG Yellow — RoHS Compliant														
1	4	.281 x .953	.250	A27272-ND	.71	.62	35148	—	—	—	—	—	—	—
	6	.281 x .953	.230	A27273-ND	.44	.39	320634	—	—	—	—	—	—	—
		.281 x .953	.250	A0893-ND	.44	.39	35149	—	—	—	—	—	—	—
		.312 x 1.052	.230	A27274-ND	.65	.57	326886	—	—	—	—	—	—	—
		.375 x 1.083	.230	A27276-ND	.46	.40	320567	A27276CT-ND	164.86	299.75	A27276TR-ND	2,500	239.80/M	2-320567-2
		.375 x 1.083	.250	A27275-ND	.46	.40	35107	—	—	—	—	—	—	—
	8	.312 x 1.031	.230	A27277-ND	.44	.39	35787	—	—	—	—	—	—	—
		.312 x 1.052	.230	A27278-ND	.65	.58	324915	—	—	—	—	—	—	—
		.375 x 1.083	.230	A27280-ND	.46	.40	320568	A27280CT-ND	164.86	299.75	A27280TR-ND	2,500	239.80/M	2-320568-1
		.375 x 1.083	.250	A1081-ND	.31	.27	35108	—	—	—	—	—	—	—
		.375 x 1.172	.300	A27279-ND*	1.31	1.16	35605	—	—	—	A27279TR-ND*	1,500	727.78/M	2-35605-2
	10	.312 x 1.052	.230	A27282-ND	.65	.57	324918	—	—	—	—	—	—	—
		.343 x 1.046	.230	A27281-ND	.44	.39	32883	A27281CT-ND	572.65	1041.18	A27281TR-ND	2,500	832.94/M	1-32883-0
		.375 x 1.083	.230	A27284-ND	.32	.29	36161	A27284CT-ND	139.82	254.23	A27284TR-ND	2,500	203.38/M	2-36161-2
		.375 x 1.083	.250	A1082-ND	.32	.29	35109	A1082CT-ND	139.82	254.23	A1082TR-ND	2,500	203.38/M	2-35109-1
		.375 x 1.172	.300	A27283-ND*	1.35	1.19	35364	—	—	—	—	—	—	—
	1/4	.500 x 1.188	.230	A27285-ND	.48	.43	35273	A27285CT-ND	348.48	633.60	A27285TR-ND	2,500	506.88/M	2-35273-2
		.500 x 1.277	.300	A27286-ND*	1.49	1.31	323763	—	—	—	—	—	—	—
		.531 x 1.322	.230	A27288-ND	.53	.47	320569	A27288CT-ND	189.82	345.13	A27288TR-ND	2,500	276.10/M	2-320569-3
		.531 x 1.322	.250	A1083-ND	.53	.47	35110	A1083CT-ND	189.82	345.13	A1083TR-ND	2,500	276.10/M	2-35110-1
		.531 x 1.416	.300	A27287-ND*	1.45	1.28	35345	—	—	—	—	—	—	—
	3/8	.593 x 1.414	.250	A1084-ND	.53	.47	35112	—	—	—	—	—	—	—
		.593 x 1.414	.230	A27291-ND	.53	.47	320577	—	—	—	—	—	—	—
		.593 x 1.510	.300	A28077-ND*	1.57	1.38	35478	—	—	—	A28077TR-ND*	750	1252.35	1-35478-0
		.750 x 1.594	.250	A27510-ND	1.38	1.21	35150	—	—	—	—	—	—	—
	1/2	.750 x 1.594	.250	A0894-ND	.72	.64	35151	—	—	—	—	—	—	—
	5/16	.531 x 1.322	.250	A1095-ND	.53	.47	35111	A1095CT-ND	189.82	345.13	A1095TR-ND	2,500	276.10/M	2-35111-1
		.531 x 1.322	.230	A27290-ND	.53	.47	320576	—	—	—	—	—	—	—
		.531 x 1.416	.300	A27289-ND*	1.49	1.31	35346	—	—	—	—	—	—	—

* Vinyl Insulation

PIDG Slotted Ring Tongue — *RoHS Compliant*

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 1,000	Digi-Key Part No.	Reel Qty.	Tape & Reel Pricing	AMP Part No.
2	26-22 Yellow	6	.250 x .719	.082	A27448-ND	.37	.33	323011	A27448CT-ND	254.10	A27448TR-ND	4,000	203.28/M	2-323011-2
	22-16 Red	8	.281 x .770	.140	A27449-ND	.76	.67	36954	—	—	—	—	—	—

PIDG Ring Tongue Insulation Restricting Terminals — *RoHS Compliant*

Fig.	AWG	Stud Size	Dim. – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
1	22 Red/Green	4	.218 x .734	.038 - .110	A27334-ND	.46	.40	52273
		6	.250 x .844		A27335-ND	.46	.40	51863-2
		8	.312 x .906		A27336-ND	.46	.40	1-320551-2
		10	.312 x .906		A27337-ND	.46	.40	2-36153-3
	20 Red/Red	4	.218 x .734	.046 - .110	A27338-ND	.47	.42	52273-1
		6	.218 x .734		A27339-ND	.46	.40	2-36149-4
		6	.250 x .844		A27340-ND	.46	.40	51863-3
		8	.312 x .906		A27341-ND	.46	.40	1-320551-3
		10	.312 x .906		A27342-ND	.46	.40	2-36153-4
	18 Red/White	6	.218 x .734	.056 - .110	A27343-ND	.46	.40	2-36149-5
		6	.250 x .844		A27344-ND	.46	.40	51863-4
		8	.312 x .906		A27345-ND	.46	.40	1-320551-4
		10	.312 x .906		A27346-ND	.46	.40	2-36153-5
	16 Blue/Blue	6	.250 x .765	.063 - .130	A27347-ND	.47	.42	2-320561-3
		6	.312 x .906		A27348-ND	.46	.40	51864-6
		8	.312 x .906		A27349-ND	.47	.42	1-51864-0
		10	.312 x .906		A27350-ND	.51	.45	51864-7
		1/4	.469 x 1.140		A27513-ND	.79	.70	2-320563-3
	14 Blue/Green	6	.312 x .906	.078 - .130	A27351-ND	1.53	1.34	51864-8
		8	.312 x .906		A27352-ND	.51	.45	1-51864-1
		10	.312 x .906		A27353-ND	.46	.40	51864-9
		1/4	.469 x 1.140		A27514-ND	.66	.58	2-320563-4
	12 Yellow/Yellow	6	.375 x 1.148	.095 - .200	A27354-ND	1.09	.96	2-36161-5
		8	.375 x 1.148		A27355-ND	.63	.56	2-320568-2
		10	.375 x 1.148		A27356-ND	.63	.56	2-36161-3
		1/4	.531 x 1.392		A27515-ND	1.43	1.26	2-320569-5
	10 Yellow/Brown	8	.375 x 1.148	.119 - .200	A27357-ND	1.01	.89	2-320568-3
		10	.375 x 1.148		A27358-ND	.76	.67	2-36161-4
		1/4	.531 x 1.392		A27516-ND	1.27	1.12	2-320569-6
		5/16	.531 x 1.392		A27517-ND	1.37	1.21	2-320576-3

PIDG Offset Ring Tongue Terminals — *RoHS Compliant*

Fig.	AWG	Stud Size	Dim. – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
3	22-16 Red	6	.375 x .906	.125	A27526-ND	.53	.47	323039
		10			A27527-ND	1.12	.99	324011
	16-14 Blue	6	.375 x .906	.150	A27528-ND	.68	.60	323817
		10			A27529-ND	1.02	.90	323818

PIDG Ring Tongue Radiation Resistant

Fig.	AWG	Stud Size	Dimensions - Inch W x L	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
1	22-16 Red	6	.218 x .672	.125	A27292-ND	.48	.43	53406-1
		6	.218 x .672		A33723-ND◆	.55	.49	696422-3
		6	.250 x .782		A27293-ND	.48	.43	53407-1
		6	.250 x .782		A33724-ND◆	.55	.49	696422-4
		8	.312 x .844		A27294-ND	.55	.49	53408-1
		8	.312 x .844		A33725-ND◆	.55	.49	696422-5
		10	.312 x .844		A27295-ND	.55	.49	53409-1
		10	.312 x .844		A33726-ND◆	.55	.49	696422-6
	16-14 Blue	6	.250 x .703	.150	A27296-ND	.57	.50	53415-1
		6	.250 x .703		A33727-ND◆	.57	.50	696423-3
		6	.312 x .844		A27297-ND	.54	.47	53416-1
		6	.312 x .844		A33728-ND◆	.62	.54	696423-4
		8	.312 x .844		A27298-ND	.61	.54	53417-1
		10	.312 x .844		A27299-ND	.62	.54	53418-1
		10	.312 x .844		A33730-ND◆	.62	.54	696423-6
	12-10 Yellow	8	.375 x 1.083	.230	A33731-ND◆	.86	.76	696424-5
		10	.375 x 1.083		A33732-ND◆	.86	.76	696424-6

◆ ***RoHS Compliant***

Tools

A9996-ND	PRO-CRIMPER™ II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for Insulated Terminals, use with A9996-ND	**$43.50**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$96.00**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$134.84**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$40.68**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminal and Splices	**$37.91**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON™ Flag Terminals	**$90.90**
A27981-ND	Hand Crimp Tool for PIDG 26-22 AWG	**$393.00**
A27982-ND	Hand Crimp Tool for PIDG 16-14 AWG	**$418.50**

PIDG Spade Terminals

PIDG (Pre-Insulated Diamond Grip) Terminals: Meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2. **Product Facts:** • **Temperature Rating:** 105°C maximum • **AMP Wire:** Solid or Stranded • **Terminal Material:** The basic terminal is conducted of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. • **Copper Sleeve:** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor. • **Nylon Insulation (unless otherwise noted):** Nylon sleeve assures high dielectric strength.

Fig. 1

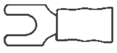

Fig. 2

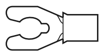

Fig. 3

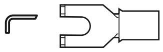

PIDG Spade Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
						10	100			500	1,000				
1	26-22 Yellow	4	.203 x .627	.082	A27415-ND	.35	.31	321035	—	—	—	—	—	—	—
	22-16 Red	2	.182 x .727	.140	A0895-ND	.32	.29	328394	—	—	—	—	—	—	—
		4	.218 x .674		A0896-ND	.39	.35	327717	—	—	—	—	—	—	—
		6	.250 x .846	.140	A1063-ND	.24	.21	34541	A1063CT-ND	—	224.58	A1063TR-ND	5,000	179.66/M	2-34541-1
			.297 x .753	.125	A27416-ND	.32	.29	34080	A27416CT-ND	—	224.58	A27416TR-ND	5,000	179.66/M	2-34080-1
			.297 x .753	.140	A27417-ND	.32	.29	326861	—	—	—	—	—	—	—
		8	.375 x .908	.125	A27418-ND	.45	.39	32050	A27418CT-ND	—	509.35	A27418TR-ND	5,000	407.48/M	2-32050-1
			.375 x .908	.140	A1064-ND	.32	.29	32053	—	—	—	—	—	—	—
		10	.375 x .908	.125	A27419-ND	.67	.59	32051	—	—	—	—	—	—	—
			.375 x .908	.140	A1065-ND	.32	.29	32054	—	—	—	—	—	—	—
	16-14 Blue	6	.244 x .846	.170	A27421-ND	.50	.44	328281	A27421CT-ND	—	582.15	A27421TR-ND	5,000	465.72/M	1-328281-1
			.297 x .753		A1073-ND	.32	.29	35559	A1073CT-ND	—	224.58	A1073TR-ND	5,000	179.66/M	2-35559-1
			.385 x .908		A27420-ND	.32	.29	32058	—	—	—	—	—	—	—
		8	.297 x .753	.170	A1074-ND	.34	.30	321233	A1074CT-ND	—	254.68	A1074TR-ND	5,000	203.74/M	2-321233-1
			.312 x 1.034	.170	A27519-ND	.68	.60	325199	—	—	—	—	—	—	—
			.385 x .908	.150	A27422-ND	.53	.46	32056	—	—	—	—	—	—	—
			.385 x .908	.170	A0897-ND	.32	.29	32059	—	—	—	—	—	—	—
		10	.385 x .908	.150	A27520-ND	.55	.48	32057	—	—	—	—	—	—	—
			.385 x .908	.170	A1075-ND	.34	.30	32060	A1075CT-ND	—	449.15	A1075TR-ND	5,000	359.32/M	2-32060-1
	12-10 Yellow	6	.290 x .954	.230	A27423-ND	.71	.63	322985	—	—	—	—	—	—	—
			.312 x 1.095		A27424-ND	.67	.59	326859	A27424CT-ND	478.36	869.75	A27424TR-ND	2,500	695.80/M	2-326859-1
		8	.406 x 1.095	.230	A0898-ND	.44	.39	32588	—	—	—	—	—	—	—
		10	.406 x 1.095	.230	A1085-ND	.44	.39	32589	—	—	—	—	—	—	—

PIDG Spring Spade Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
						10	100			500	1,000				
Short															
2	26-22 Yellow	4	.203 x .695	.082	A27434-ND	.57	.50	52922	A27434CT-ND	—	576.20	A27434TR-ND	5,000	460.96/M	52922-1
		6	.250 x .679		A27435-ND	.43	.38	52924	A27435CT-ND	—	340.83	A27435TR-ND	4,000	204.50/M	52924-1
		8	.375 x .787		A27436-ND	1.64	1.44	52925	—	—	—	—	—	—	—
	22-16 Red	4	.203 x .799	.125	A0902-ND	.47	.41	52927	—	—	—	—	—	—	—
		5	.250 x .799	.125	A27437-ND	.46	.41	52928	A27437CT-ND	—	254.10	A27437TR-ND	5,000	203.28/M	52928-1
		6	.250 x .799	.125	A1067-ND	.37	.33	52929	A1067CT-ND	—	203.38	A1067TR-ND	5,000	162.70/M	52929-1
		6	.250 x .799	.140	—	—	—	—	A28004CT-ND	—	288.15	A28004TR-ND	5,000	230.52/M	52929-3
		8	.375 x .860	.125	A1089-ND	.37	.33	52930	A1089CT-ND	—	288.15	A1089TR-ND	5,000	230.52/M	52930-1
		10	.406 x .908	.125	A1099-ND	.53	.47	52931	A1099CT-ND	—	254.10	A1099TR-ND	5,000	203.28/M	52931-1
	16-14 Blue	5	.250 x .799	.170	A28166-ND	.53	.46	52934	A28166CT-ND	—	508.10	A28166TR-ND	5,000	406.48/M	52934-1
		6	.250 x .799	.170	A1078-ND	.37	.33	52935	—	—	—	—	—	—	—
		6	.250 x .799	.182	A27438-ND	.54	.48	52935-2	—	—	—	—	—	—	—
		8	.375 x .860	.170	A1093-ND	.38	.34	52936	A1093CT-ND	—	282.88	A1093TR-ND	5,000	226.30/M	52936-1
		8	.375 x.860	.182	A28167-ND	.96	.84	52936-2	A28167CT-ND	—	565.73	A28167TR-ND	5,000	452.58/M	52936-3
		10	.406 x .908	.170	A1094-ND	.38	.34	52937	—	—	—	—	—	—	—
		10	.406 x .908	.182	A28168-ND	1.23	1.08	52937-2	—	—	—	—	—	—	—
	12-10 Yellow	6	.250 x .959	.250	A1096-ND	.50	.44	52941	A1096CT-ND	179.67	326.68	A1096TR-ND	2,500	261.34/M	52941-1
		8	.375 x 1.052		A1097-ND	.50	.44	52942	A1097CT-ND	179.67	326.68	A1097TR-ND	2,500	261.34/M	52942-1
		10	.406 x 1.100		A1098-ND	.50	.44	52943	—	—	—	—	—	—	—
		1/4	.625 x 1.225		A27439-ND	2.01	1.77	52945	—	—	—	—	—	—	—
Long															
2	22-16 Red	6	.250 x .933	.125	A09040-ND	.62	.55	52409	—	—	—	—	—	—	—
		6	.250 x .933	.140	A28156-ND	1.00	.88	52409-2	—	—	—	—	—	—	—
		8	.281 x .979	.125	A09041-ND	.59	.52	52410	A09041CT-ND	—	254.10	A09041TR-ND	5,000	203.28/M	52410-1
		10	.343 x 1.005	.125	A09042-ND	1.23	1.08	52411	—	—	—	—	—	—	—
	16-14 Blue	6	.250 x .933	.150	A09043-ND	.38	.34	52420	A09043CT-ND	—	633.43	A09043TR-ND	5,000	506.74/M	52420-2
		6	.250 x .933	.170	A27446-ND	1.19	1.05	52420-1	A27446CT-ND	—	288.15	A27446TR-ND	5,000	230.52/M	52420-3
		8	.281 x .979	.150	A09044-ND	.71	.63	52421	—	—	—	—	—	—	—
		8	.281 x .979	.170	A27447-ND	.38	.34	52421-1	—	—	—	—	—	—	—
		10	.343 x 1.005	.170	A09045-ND	.63	.56	52422-1	—	—	—	—	—	—	—
	12-10 Yellow	6	.312 x 1.131	.250	A27521-ND	.89	.78	52430-1	—	—	—	—	—	—	—
		8	.375 x 1.174		A27522-ND	.91	.80	52431-1	—	—	—	—	—	—	—
		10	.375 x 1.219		A27523-ND	.93	.82	52432-1	A27523CT-ND	471.24	856.80	A27523TR-ND	2,500	685.44/M	52432-3
		1/4	.437 x 1.289		A27524-ND	.98	.87	52433-1	—	—	—	—	—	—	—

PIDG Flanged Spade Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
						10	100			500	1,000				
3	26-22 Yellow	2	.182 x .649	.082	A27426-ND	.91	.81	324597	—	—	—	—	—	—	—
		4	.196 x .649		A27427-ND	2.50	2.20	52369	—	—	—	—	—	—	—
		6	.250 x .649		A27428-ND	.90	.79	51874	—	—	—	—	—	—	—
	22-16 Red	2	.182 x .727	.125	A27429-ND	1.41	1.24	2-324608-2	—	—	—	—	—	—	—
		2	.182 x .727	.140	A0899-ND	.42	.37	324608	—	—	—	—	—	—	—
		6	.250 x .737	.125	A27431-ND	.36	.31	322777	A27431CT-ND	—	253.28	A27431TR-ND	5,000	202.62/M	2-322777-1
		6	.296 x .737	.125	A27430-ND	.36	.31	32561	A27430CT-ND	—	245.10	A27430TR-ND	5,000	196.08/M	2-32561-1
		6	.296 x .737	.140	A1066-ND	.35	.31	32562	A1066CT-ND	—	245.10	A1066TR-ND	5,000	196.08/M	2-32562-1
		8	.416 x .830	.140	A1088-ND	1.11	.98	32498	A1088CT-ND	—	635.93	A1088TR-ND	5,000	508.74/M	2-32498-1
	16-14 Blue	6	.294 x .737	.170	A1076-ND	.36	.31	320861	A1076CT-ND	—	245.10	A1076TR-ND	5,000	196.08/M	2-320861-1
		8	.294 x .737		A1077-ND	.36	.31	320862	A1077CT-ND	—	277.95	A1077TR-ND	5,000	222.36/M	2-320862-1
		8	.416 x .830		A27518-ND	1.23	1.09	33156	—	—	—	—	—	—	—
		10	.294 x .737		A1092-ND	.51	.45	320863	A1092CT-ND	—	277.95	A1092TR-ND	5,000	222.36/M	2-320863-2
	12-10 Yellow	6	.296 x 1.017	.250	A0900-ND	.97	.85	325150	—	—	—	—	—	—	—
		6	.328 x 1.017	.230	A27432-ND	.96	.85	324587	—	—	—	—	—	—	—
		8	.416 x 1.017	.230	A09039-ND	.49	.43	32510	A09039CT-ND	237.88	432.50	A09039TR-ND	2,500	346.00/M	2-32510-1
		10	.416 x 1.017	.250	A0901-ND	1.28	1.13	324015	A0901CT-ND	250.37	455.23	A0901TR-ND	2,500	364.18/M	2-324015-1

Tools

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$43.50**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$96.00**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$134.84**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices.	**$40.68**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminals and Splices.	**$37.91**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals.	**$90.90**

PIDG Knife Disconnect and Butt Splices

PIDG (Pre-Insulated Diamond Grip) Terminals: Meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2. **Product Facts:** • **Temperature Rating:** 105°C maximum • **AMP Wire:** Solid or Stranded • **Terminal Material:** The basic terminal is conducted of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. • **Copper Sleeve:** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor. • **Nylon Insulation (unless otherwise noted):** Nylon sleeve assures high dielectric strength.

PIDG - Spare Wire Caps: **Material:** Copper Tin Plated, Insulation: Nylon

PIDG - Butt Splice Step Down Adapter Inserts:
Material: • Adapter Body: Copper per ASTM B-152 • Plating: Zinc/DyeChromate

Fig. 1

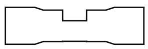

Fig. 2

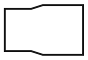

Fig. 3

For Stripped Wire   For Unstripped Wire

Fig. 4

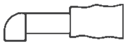

PIDG Butt Splices

Fig.	AWG Color	Dim. - Inch Length	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	1,000	Digi-Key Part No.	Reel Qty.	Tape & Reel Pricing	AMP Part No.
1	26-22 Yellow	—	.082	A0913-ND◆	.76	.67	2-323994-2	—	—	—	—	—	—	—
	22-16 Red‡	1.265	.125	A1069-ND◆	.87	.77	320559	A1069CT-ND◆	331.16	602.10	A1069TR-ND◆	2,500	481.68/M	2-320559-4
	16-14 Blue	1.265	.150	A1080-ND◆	.87	.77	320562	A1080CT-ND◆	441.13	802.05	A1080TR-ND◆	2,500	641.64/M	2-320562-3
	12-10 Yellow	1.656	.220	A1086-ND◆	1.47	1.29	320570	—	—	—	—	—	—	—
1	22-26 Yellow†	.890	.082	A27450-ND◆	.75	.66	323994	—	—	—	—	—	—	—
	24-20 Natural	1.035	.100	A27451-ND◆	.69	.60	323975	—	—	—	—	—	—	—
	Step Down Type (with adapter insert)													
1	16-14 to 22-18 Blue	1.265	.150/.115	A27452-ND◆*	1.66	1.46	327583	A27452CT-ND*	814.84	1481.53	A27452TR-ND*	2,500	1185.22/M	2-327583-1
	12-10 to 16-14 Yellow	1.656	.220/.170	A27453-ND◆	2.55	2.25	327638	—	—	—	—	—	—	—
	12-10 to 22-18 Yellow	1.656	.220/.140	A27454-ND	2.68	2.36	327639	—	—	—	—	—	—	—
	Radiation Resistant													
1	22-16 Red Stripe	1.265	.125	A33733-ND◆	1.40	1.23	696427-1	—	—	—	—	—	—	—

◆ ***RoHS Compliant*** * Includes adapter insert † 26-22 splices are 26-24 range in accordance with MIL-T-7928 ‡ 22-16 splices are 22-18 range in accordance with MIL-T-7928

PIDG - Spare Wire Caps — *RoHS Compliant*

Fig.	AWG	Insulation Diameter Inch	Cap Insulation Color	Digi-Key Part No.	Price Each 10	100	AMP Part No.
			Unstripped Wire				
3	—	.048 - .075	Transparent	A27478-ND	.35	.31	324484
		.080 - .115	Red	A27479-ND	.39	.34	324485
		.120 - .145	Blue	A27480-ND	.44	.39	324486
			Stripped Wire				
3	22-18	.124	Red	A27481-ND	.41	.36	328307
	16-14	.149	Blue	A27482-ND	.52	.46	328308
	12-10	.210	Yellow	A27483-ND	.58	.51	328309

PIDG - Butt Splice Step Down Adapter Inserts

Fig.	AWG	Use With Butt Splices	Digi-Key Part No.	Price Each 10	100	AMP Part No.
2	22-18 Red	A1080-ND	A27458-ND◆	.27	.24	327635
	22-18 Red	A1086-ND	A27459-ND	1.84	1.62	327636

◆ ***RoHS Compliant***

PIDG Knife Disconnect Splices — *RoHS Compliant*

Fig.	AWG	Dim. - Inch Length	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	100	AMP Part No.
4	22-16 Red	.878	.125	A27473-ND	.71	.62	320555
			.140	A1068-ND	.64	.57	32446
	16-14 Blue	.878	.150	A27474-ND	.71	.62	320566
			.170	A1079-ND	.64	.57	32448
	12-10 Yellow	1.260	.250	A09046-ND	2.80	2.47	35762

Tools and Kits

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$43.50**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$96.00**
A09093-ND	Sealed Splice Connector Kit (includes 10 [12-10 AWG] splice, 15 [22-18 AWG] splice, 25 [16-14 AWG] splice, molded case and crimping tool) — ***RoHS Compliant***	**$154.89**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$134.84**
A27484-ND	Long Handle Tool for PIDG Spare Wire Caps (22-18 AWG)	**$358.50**
A27485-ND	Heavy Head Tool for PIDG Spare Wire Caps (12-10 AWG)	**$642.00**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$40.68**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminals and Splices	**$37.91**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$90.90**

ELECTRO-TAP Connectors and Closed End Splices

ELECTRO-TAP Cable Connector/Splice

• **Housing Material:** Nylon • **Contact Material:** Brass • **Contact Plating:** Tin

Fig.	AWG	Insul. Dia. Inch	Dimension – Inch L	W	H	Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
1	22-18	.160	.687	.484	.450	Red	A1050-ND	.70	.55	53440-2
	14-18					Blue	A1051-ND	.70	.55	53440-1

Fig. 1

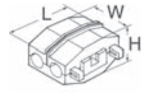

Fig. 2

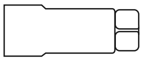

Fig. 3

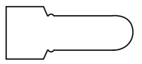

Closed End Splices

• For single and multiple wire applications • Nylon or vinyl or PVF² insulated • Temperature Ratings of 90°C, 105°C, 150°C • 300V, 600V or 1000V rated • Crescent crimp configuration • Covers wire ranges from 22 to 6 AWG (0.3 to 6.0 mm²); 509 to 42, 700 CMA • Copper or steel splice material • Plated or unplated • Solid or stranded copper wire • UL and CSA approved

Fig.	AWG	Insul. Color	Mat'l.	Open. Dia. Inch	Length Inch	Splice Mark*	Digi-Key Part No.	Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	1,000	Digi-Key Part No.	Reel Qty.	Tape & Reel Pricing	AMP Part No.
							Vinyl BOMB-TAIL Splices										
2	22-16	Blue	Copper	.173	.750	VS	A09052-ND	3.15	27.75	34306	—	—	—	—	—	—	—
		Blue	Copper	.215	.800	VS	A27567-ND	3.12	27.42	34864	—	—	—	—	—	—	—
		Trans.	Steel	.265	1.000	ECV	A27476-ND	1.81	15.97	328890	—	—	—	—	—	—	—
		Trans.	Steel	.265	.825	ECV	A09053-ND	1.39	12.27	330021	—	—	—	—	—	—	—
	22-14	Red	Copper	.156	.729	VS	A09054-ND	3.21	28.28	34304	—	—	—	—	—	—	—
		Purple		.187	.740	VS	A09055-ND	1.29	11.33	36964	A09055CT-ND	78.93	143.50	A09055TR-ND	2,500	86.10/M	2-36964-2
		Purple		.235	.775	VS	A27475-ND	1.58	13.93	2-328375-3	—	—	—	—	—	—	—
		Purple		.235	.900	ECV	A27568-ND	1.93	16.98	55843-1	—	—	—	—	—	—	—
	22-12	Trans.	Copper	.360	1.500	ECV	A09056-ND	1.81	15.97	53234-1	—	—	—	—	—	—	—
					1.125		A27571-ND	1.69	14.90	329251	—	—	—	—	—	—	—
	22-10	Yellow	Copper	.235	.975	VS	A09059-ND	3.54	31.12	34308	—	—	—	—	—	—	—
		Yellow		.300	1.010	VS	A09060-ND	13.01	114.49	34865	—	—	—	—	—	—	—
		Purple		.312	1.010	VS	A09057-ND	1.70	14.96	36965	A09057CT-ND	85.28	155.05	A09057TR-ND	1,500	93.04/M	1-36965-1
	18-8	Green	Copper	.500	1.575	ECV	A09061-ND	5.32	46.79	320788	—	—	—	—	—	—	—
							Nylon Molded Splices										
2	22-14	Trans.	Copper	.250	.680	ECN	A09062-ND	1.98	17.46	35115	A09062CT-ND	91.37	166.13	A09062TR-ND	2,500	132.90/M	1-35115-0
3	22-10	Trans.	Copper	.375	.775	ECN	A09063-ND	2.12	18.66	35653	A09063CT-ND	100.53	182.78	A09063TR-ND	1,500	146.22/M	2-35653-1
					.970	EC	A09064-ND	2.28	20.05	53915-1	A09064CT-ND	151.75	275.90	A09064TR-ND	1,500	165.54/M	53915-2
					.720	EC	A27477-ND	2.29	20.12	328730	A27477CT-ND	94.19	171.25	A27477TR-ND	1,500	102.76/M	2-328730-1

* **VS** = 300V, 90°C **ECV** = 600V maximum Building Wiring, 1000V maximum Fixtures and Signs, 105°C UL, 90°C CSA **ECN** = 300V, 105°C **EC** = 600V maximum Building Wiring, 1000V maximum Fixtures and Signs, 105°C

Plasti-Grip™ Terminals and Splices

Temperature Rating: 90°C maximum **Material:** • Insulation: Vinyl • Terminal Body: Copper per ASTM B-152 • Plating: Tin per MIL-T-10727 (spring spade terminals are phosphor bronze per ASTM B-139 or brass per ASTM B-36 and tin-plated per MIL-T-10727) **Voltage:** 600V maximum (1000V Fixture or Sign).

Recognized under the component program of Underwriters Laboratories Incorporated File No. E13288.

Fig. 1

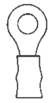

Fig. 2

Fig. 3

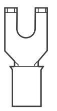

Fig. 4

Fig. 5

Fig. 6

Fig. 7

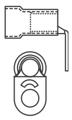

Fig. 8

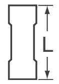

Fig. 9

Ring Tongue Terminals

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
22-16 AWG Red														
1	2	.218 x .684	.140	A0954-ND	.28	.24	34140	—	—	—	—	—	—	—
	4	.218 x .684	.125	A27302-ND	.28	.24	32944	—	—	—	—	—	—	—
	4	.218 x .684	.140	A0955-ND	.28	.24	34141	A0955CT-ND	—	200.70	A0955TR-ND	5,000	160.56/M	2-34141-1
	4	.281 x .809	.140	A28199-ND	.36	.32	34143	—	—	—	—	—	—	—
	6	.218 x .684	.125	A27303-ND	.28	.24	32945	A27303CT-ND	—	208.73	A27303TR-ND	5,000	166.98/M	2-32945-1
	6	.218 x .684	.140	A09016-ND§	.28	.24	34142	—	—	—	—	—	—	—
	6	.281 x .809	.125	A27304-ND	.28	.24	32947	A27304CT-ND	—	200.70	A27304TR-ND	5,000	160.56/M	2-32947-1
	6	.281 x .809	.140	A0956-ND◊	.28	.24	34144	A0956CT-ND	—	169.68	A0956TR-ND	5,000	135.74/M	2-34144-1
	6	.312 x .856	.125	A27305-ND	.28	.24	32950	A27305CT-ND	—	208.73	A27305TR-ND	5,000	166.98/M	2-32950-1
	6	.312 x .856	.140	A27306-ND	.28	.24	34147	A27306CT-ND	—	200.70	A27306TR-ND	5,000	160.56/M	2-34147-1
	8	.281 x .809	.125	A27308-ND	.28	.24	32948	A27308CT-ND	—	381.75	A27308TR-ND	5,000	305.40/M	2-32948-1
	8	.281 x .809	.140	A09017-ND§	.18	.16	34145	A09017CT-ND	—	200.70	A09017TR-ND	5,000	160.56/M	2-34145-1
	8	.312 x .856	.125	A27307-ND	.28	.24	32951	A27307CT-ND	—	208.73	A27307TR-ND	5,000	166.98/M	2-32951-1
	8	.312 x .856	.140	A0957-ND◊	.18	.16	34148	A0957CT-ND	—	200.70	A0957TR-ND	5,000	160.56/M	2-34148-1
	10	.281 x .809	.125	A28192-ND	.28	.24	32949	A28192CT-ND	—	357.78	A28192TR-ND	5,000	286.22/M	2-32949-1
	10	.281 x .809	.140	A09018-ND§	.28	.24	34146	—	—	—	—	—	—	—
	10	.312 x .856	.125	A09019-ND	.28	.24	32952	A09019CT-ND	—	200.70	A09019TR-ND	5,000	160.56/M	2-32952-1
	10	.312 x .856	.140	A0958-ND◊	.27	.24	34149	A0958CT-ND	—	169.68	A0958TR-ND	5,000	135.74/M	2-34149-1
	1/4	.469 x 1.090	.125	A27309-ND	.36	.32	32953	A27309CT-ND	—	480.38	A27309TR-ND	5,000	384.30/M	2-32953-1
	1/4	.469 x 1.090	.140	A0959-ND	.32	.29	34150	A0959CT-ND	—	230.98	A0959TR-ND	5,000	184.78/M	2-34150-1
	5/16	.469 x 1.090	.140	A0960-ND	.32	.29	34151	A0960CT-ND	—	230.98	A0960TR-ND	5,000	184.78/M	2-34151-1
	3/8	.531 x 1.230	.140	A0961-ND	.33	.29	34152	—	—	—	—	—	—	—
16-14 AWG Blue														
1	4	.250 x .715	.193	A0962-ND	.36	.32	34157	—	—	—	—	—	—	—
	6	.250 x .715	.193	A09020-ND§	.28	.24	34158	—	—	—	—	—	—	—
	6	.343 x .871	.193	A0963-ND◊	.28	.24	34159	A0963CT-ND	—	208.73	A0963TR-ND	5,000	166.98/M	2-34159-1
	8	.312 x .825	.193	A27311-ND	.28	.24	328527	—	—	—	—	—	—	—
	8	.343 x .871	.145	A27310-ND	.28	.24	32959	A27310CT-ND	—	410.25	A27310TR-ND	5,000	328.20/M	2-32959-1
	8	.343 x .871	.193	A0964-ND	.88	.77	34160	A0964CT-ND	—	200.70	A0964TR-ND	5,000	160.56/M	2-34160-1
	10	.343 x .871	.145	A09021-ND	.28	.24	32960	A09021CT-ND	—	200.70	A09021TR-ND	5,000	160.56/M	2-32960-1
	10	.343 x .871	.193	A0965-ND	.27	.24	34161	A0965CT-ND	—	169.68	A0965TR-ND	5,000	135.74/M	2-34161-1
	1/4	.469 x 1.090	.145	A27312-ND	.48	.42	32961	—	—	—	—	—	—	—
	1/4	.469 x 1.090	.193	A0966-ND	.21	.18	34162	—	—	—	—	—	—	—
	5/16	.469 x 1.090	.193	A0967-ND	.32	.29	34163	—	—	—	—	—	—	—
	3/8	.531 x 1.248	.193	A0968-ND	.36	.32	34164	—	—	—	—	—	—	—
16-14HD AWG Yellow/Black														
1	10	.343 x 1.046	.250	A28193-ND	.52	.46	321518	A28193CT-ND	201.82	366.95	A28193TR-ND	2,500	293.56/M	2-321518-1
	1/4	.500 x 1.188	.250	A32017-ND	.60	.53	35349	—	—	—	—	—	—	—
	1/4	.531 x 1.296	.200	A27555-ND	.54	.48	34824	—	—	—	—	—	—	—
12-10 AWG Black														
1	1/4	.500 x 1.247	.300	A32018-ND	.51	.45	35492	—	—	—	—	—	—	—
12-10 AWG Yellow														
1	6	.281 x .953	.250	A27313-ND	.37	.33	34852	—	—	—	—	—	—	—
	6	.375 x 1.098	.230	A28194-ND	.37	.33	34168	A28194CT-ND	150.95	274.45	A28194TR-ND	2,500	219.56/M	2-34168-1
	8	.375 x 1.098	.250	A0969-ND	.37	.33	34853	A0969CT-ND	150.95	274.45	A0969TR-ND	2,500	219.56/M	2-34853-1
	10	.375 x 1.098	.250	A0970-ND◊	.36	.31	34854	A0970CT-ND	96.03	174.60	A0970TR-ND	2,500	139.68/M	2-34854-1
	1/4	.400 x 1.373	.300	A28195-ND	.41	.36	55678-1	A28195CT-ND	265.13	482.05	A28195TR-ND	1,500	385.64/M	55678-2
	1/4	.531 x 1.327	.250	A0971-ND	.42	.37	34855	A0971CT-ND	164.71	299.48	A0971TR-ND	2,500	239.58/M	2-34855-1
	5/16	.531 x 1.327	.250	A0972-ND	.43	.38	34856	—	—	—	—	—	—	—
	3/8	.593 x 1.421	.230	A0973-ND	.42	.37	34173	—	—	—	—	—	—	—
	2	.750 x 1.594	.250	A09023-ND§	1.18	1.04	34837	—	—	—	—	—	—	—
8 AWG Red														
1	8	.478 x 1.586	.360	A27530-ND	1.13	1.00	52041	—	—	—	—	—	—	—
	10	.431 x 1.556	.360	A27318-ND	.75	.66	52263	—	—	—	A27318TR-ND	500	217.91	52263-2
	10	.431 x 1.576	.330	A27317-ND	.75	.66	52263-1	—	—	—	—	—	—	—
	1/4	.431 x 1.561	.360	A28196-ND	1.72	1.51	55621-1	—	—	—	—	—	—	—
	1/4	.478 x 1.586	.360	A27320-ND	1.13	1.00	52041-1	—	—	—	A27320TR-ND	500	608.21	52041-7
	1/4	.478 x 1.600	.330	A27319-ND	1.12	.98	52041-3	—	—	—	A27319TR-ND	500	598.29	52041-9
	5/16	.587 x 1.696	.360	A27321-ND	1.22	1.07	52291	—	—	—	—	—	—	—
	3/8	.587 x 1.696	.360	A27531-ND	1.16	1.02	52291-1	—	—	—	—	—	—	—
	1/2	.875 x 1.860	.330	A27532-ND	3.87	3.40	52262-1	—	—	—	—	—	—	—
6 AWG Blue														
1	8	.500 x 1.869	.360	A27322-ND	2.26	1.99	52042-2	—	—	—	—	—	—	—
	10	.468 x 1.719	.436	A27323-ND	1.19	1.05	52265	—	—	—	—	—	—	—
	10	.500 x 1.844	.436	A27533-ND	2.26	1.99	52042-4	—	—	—	—	—	—	—
	1/4	.398 x 1.846	.450	A28197-ND	1.43	1.26	55679-1	—	—	—	—	—	—	—
	1/4	.500 x 1.844	.436	A27325-ND	1.27	1.12	52042-1	—	—	—	—	—	—	—
	1/4	.500 x 1.869	.360	A27324-ND	1.32	1.16	52042-3	—	—	—	A27324TR-ND	500	647.44	52042-9
	5/16	.625 x 1.906	.450	A27326-ND	2.24	1.97	52264	—	—	—	—	—	—	—
	3/8	.625 x 1.906	.450	A27534-ND	2.35	2.07	52264-1	—	—	—	—	—	—	—
	1/2	.815 x 1.851	.436	A27535-ND	3.07	2.70	52350	—	—	—	—	—	—	—
4 AWG Yellow														
1	10	.546 x 1.948	.450	A27327-ND	1.66	1.46	52043-2	—	—	—	—	—	—	—
	1/4	.546 x 1.948	.450	A27328-ND	2.63	2.31	52043-3	—	—	—	—	—	—	—
	1/4	.546 x 1.948	.515	A27329-ND	2.49	2.19	52043-1	—	—	—	—	—	—	—
	5/16	.679 x 2.014	.450	A27330-ND	3.39	2.99	52266-3	—	—	—	—	—	—	—
	5/16	.679 x 2.014	.515	A27331-ND	2.65	2.33	52266	—	—	—	—	—	—	—
	3/8	.679 x 2.014	.450	A27536-ND	2.61	2.30	52266-4	—	—	—	—	—	—	—
2 AWG Red														
1	1/4	.675 x 2.071	.560	A27332-ND	3.45	3.04	52267-1	—	—	—	—	—	—	—
	5/16	.711 x 2.089	.560	A27537-ND	3.43	3.02	52044-4	—	—	—	—	—	—	—
	5/16	.711 x 2.089	.632	A27538-ND	2.28	2.01	52044-1	—	—	—	—	—	—	—
	3/8	.711 x 2.089	.632	A27539-ND	3.46	3.05	52044-2	—	—	—	—	—	—	—
1/0 AWG Blue														
1	5/16	.807 x 2.447	.684	A27333-ND	3.20	2.82	52045-1	—	—	—	—	—	—	—
	3/8	.807 x 2.447	.665	A27540-ND	3.20	2.82	52045-5	—	—	—	—	—	—	—

§ Short; ◊ Long

(Continued)

Plasti-Grip™ Terminals and Splices *(Cont.)*

Spade Tongue Terminals

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		AMP Part No.
					10	100			500	1,000		Qty.	Pricing	
22-16 AWG Red														
2	6	.250 x .858	.140	A27425-ND	.28	.24	327043	A27425CT-ND	—	208.73	A27425TR-ND	5,000	166.98/M	2-327043-1
	6	.297 x .765	.125	A27572-ND	.35	.31	327735	A27572CT-ND	—	459.75	A27572TR-ND	5,000	367.80/M	2-327735-1
	6	.297 x .765	.140	A0974-ND	.28	.24	320665	—	—	—	—	—	—	—
	8	.375 x .920	.125	A27573-ND	.38	.33	32981	A27573CT-ND	—	417.50	A27573TR-ND	5,000	250.50/M	2-32981-1
	8	.375 x .920	.140	A0975-ND	.28	.24	34155	—	—	—	—	—	—	—
	10	.375 x .920	.140	A0976-ND	.28	.24	34156	—	—	—	—	—	—	—
16-14 AWG Blue														
2	6	.297 x .765	.145	A0977-ND	.28	.24	322994	—	—	—	—	—	—	—
	8	.385 x .920	.193	A0978-ND	.28	.24	34166	—	—	—	—	—	—	—
	10	.385 x .920	.193	A0979-ND	.28	.24	34167	—	—	—	—	—	—	—
12-10 AWG Yellow														
2	8	.406 x 1.095	.250	A0980-ND	.75	.66	35152	—	—	—	—	—	—	—
	10	.406 x 1.095		A0981-ND	.37	.33	34176	A0981CT-ND	301.88	548.88	A0981TR-ND	2,500	439.10/M	2-34176-1

Flanged Spade

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		AMP Part No.
					10	100			500	1,000		Qty.	Pricing	
22-16 AWG Red														
3	6	.328 x .749	.140	A28249-ND	.60	.53	324560	A28249CT-ND	—	600.08	A28249TR-ND	5,000	480.06/M	2-324560-1
	6	.296 x .749		A0982-ND	.30	.27	322249	A0982CT-ND	—	218.63	A0982TR-ND	5,000	174.90/M	1-322249-1
	8	.416 x .842		A0983-ND	1.00	.88	324169	—	—	—	—	—	—	—
	8	.296 x .749		A27433-ND	.40	.35	1-322249-0	A27433CT-ND	—	524.75	A27433TR-ND	5,000	419.80/M	1-322249-9
	10	.296 x .749		A0984-ND	.60	.53	328516	—	—	—	—	—	—	—
16-14 AWG Blue														
3	6	.294 x .749	.193	A0985-ND	.30	.27	324165	A0985CT-ND	—	218.63	A0985TR-ND	5,000	174.90/M	2-324165-1
	8	.294 x .749		A09024-ND	.44	.39	53874-1	A09024CT-ND	—	330.08	A09024TR-ND	5,000	264.06/M	53874-2
12-10 AWG Yellow														
3	6	.296 x 1.017	.250	A0986-ND	.68	.60	324581	A0986CT-ND	367.59	668.35	A0986TR-ND	2,500	534.68/M	1-324581-1
	8	.416 x 1.017		A0987-ND	.77	.68	324172	—	—	—	—	—	—	—
	10	.416 x 1.017		A09025-ND	.78	.69	52856	—	—	—	—	—	—	—

Spring Spade Tongue

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		AMP Part No.
					10	100			500	1,000		Qty.	Pricing	
Short														
22-16 AWG Red														
4	4	.203 x .811	.140	A0988-ND	.33	.29	52947	A0988CT-ND	—	486.90	A0988TR-ND	5,000	389.52/M	52947-1
	6	.234 x .811		A27440-ND	.33	.29	53240-1	A27440CT-ND	—	243.45	A27440TR-ND	5,000	146.07/M	53240-2
	6	.250 x .811		A0989-ND	.32	.28	52949	A0989CT-ND	—	197.93	A0989TR-ND	5,000	158.34/M	52949-1
	8	.244 x .872		A27441-ND	.43	.38	53241-1	A27441CT-ND	—	234.10	A27441TR-ND	5,000	187.28/M	53241-2
	8	.375 x .872		A0990-ND	.40	.35	52950	A0990CT-ND	—	486.90	A0990TR-ND	5,000	292.14/M	52950-1
	10	.294 x .920		A27442-ND	.40	.35	53242-1	—	—	—	—	—	—	—
	10	.406 x .920		A0991-ND	.48	.42	52951	A0991CT-ND	—	468.20	A0991TR-ND	5,000	280.92/M	52951-1
16-14 AWG Blue														
4	6	.250 x .811	.193	A0992-ND	1.03	.91	52955	A0992CT-ND	—	234.10	A0992TR-ND	5,000	187.28/M	52955-1
	6	.250 x .860	.250	A27575-ND	.43	.38	52955-2	—	—	—	—	—	—	—
	8	.244 x .872	.193	A27443-ND	.37	.33	53244-1	—	—	—	—	—	—	—
	8	.375 x .872	.193	A0993-ND	.38	.34	52956	A0993CT-ND	—	243.45	A0993TR-ND	5,000	194.76/M	52956-1
	10	.294 x .920	.193	A27576-ND	.43	.38	53245-1	—	—	—	—	—	—	—
	10	.406 x .920	.193	A0994-ND	.33	.29	52957	A0994CT-ND	—	234.10	A0994TR-ND	5,000	140.46/M	52957-1
12-10 AWG Yellow														
4	6	.250 x .959	.200	A27577-ND	.57	.50	52961	A27577CT-ND	348.76	634.10	A27577TR-ND	2,500	380.46/M	52961-1
	6	.250 x .959	.250	A27444-ND	.57	.50	53246-1	—	—	—	—	—	—	—
	8	.312 x 1.052	.250	A27541-ND	.59	.52	53247-1	—	—	—	—	—	—	—
	8	.375 x 1.052	.200	A27578-ND	.60	.53	52962	—	—	—	—	—	—	—
	10	.406 x 1.100	.200	A27445-ND	.62	.54	52963	—	—	—	—	—	—	—
Long														
22-16 AWG Red														
4	6	.250 x .945	.140	A09027-ND	.55	.49	52453	—	—	—	—	—	—	—
	8	.281 x .991		A09028-ND	.55	.48	52454	—	—	—	—	—	—	—
	10	.343 x 1.017		A09029-ND	.46	.40	52455	—	—	—	—	—	—	—
16-14 AWG Blue														
4	6	.250 x .945	.193	A09030-ND	.53	.47	52463	—	—	—	—	—	—	—
	8	.281 x .991	.170	A09031-ND	.55	.49	52464	A09031CT-ND	—	486.90	A09031TR-ND	5,000	292.14/M	52464-1
	10	.343 x 1.017	.170	A09032-ND	.66	.58	52465	—	—	—	—	—	—	—

Butt Splices

Fig.	Dim. L Max. Inch	Ins. Dia. Inch	Digi-Key Part No.	Price Each		Digi-Key Part No.	Cut Tape Pricing		Tape & Reel†	
				10	100		500	1,000	Qty.	Pricing
26-22 AWG Yellow (26-24 per MIL-T-7928)										
5	.620	.080	A27461-ND	.30	.26	—	—	—	—	—
22-16 AWG Red (22-18 per MIL-T-7928)										
5	1.065	.120	A09033-ND	.32	.28	—	—	—	—	—
	1.065	.170	A27462-ND	.33	.29	—	—	—	—	—
	1.076	.140	A0997-ND	.21	.19	A0997CT-ND	130.08	236.50	2,500	189.20/M
	1.065	.083 x .171	A27463-ND	.33	.29	—	—	—	—	—
16-14 AWG Blue										
5	1.065	.140	A27464-ND	.48	.42	—	—	—	—	—
	1.065	.170	A0998-ND	.23	.20	A0998CT-ND	86.08	156.50	2,500	125.20/M
	1.065	.215	A27465-ND	.33	.29	—	—	—	—	—
	1.105	.170	A28185-ND	.99	.87	—	—	—	—	—
	1.065	.135 x .245	A09034-ND	.55	.48	—	—	—	—	—
16-14 AWG Natural with Blue Stripes										
5	1.065	.170	A27542-ND	.33	.29	—	—	—	—	—
12-10 AWG Yellow										
5	1.160	.200	A27466-ND	.55	.48	—	—	—	—	—
		.230	A0999-ND	.35	.31	—	—	—	—	—
		.250	A27467-ND	.72	.63	—	—	—	—	—

† For Tape and Reel part number, change CT-ND to TR-ND.

Multiple Stud Terminals

Fig.	AWG Color	Stud Size	Insul. Dia. Inch	Digi-Key Part No.	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel 5,000	AMP Part No.
6	22-16 Red	6-8-10	.125	A27556CT-ND	38.21	A27556TR-ND	248.12/M	54774-2

Ring Tongue 90° Bend Terminal

Fig.	AWG Color	Stud Size	Insul. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
7	8 Red	10	.360	A27563-ND	2.31	2.04	55654-1
	6 Blue	1/4	.436	A27564-ND	3.43	3.02	54754-1

Parallel Splices

Fig.	AWG Color	Dim. L Max. Inch	Insul. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
8	22-16 Red	.760	.120	A27468-ND	.35	.31	34131
	22-16 Red	.760	.140	A27574-ND	.27	.24	34132
	16-14 Blue	.760	.140	A27469-ND	.36	.32	34133
	16-14 Blue	.760	.170	A27470-ND	.94	.83	34134
	12-10 Yellow	.843	.200	A27471-ND	.54	.48	34135
	12-10 Yellow	.870	.230	A27472-ND	.47	.42	34136

Ring Flag Tongue

Fig.	AWG Color	Stud Size	Insul. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
9	16-14 Blue	14	.170	A27557-ND	1.55	1.37	322310
	16-14HD Black		.230	A27558-ND	1.83	1.61	322313
	12-10 Yellow		.230	A27559-ND	2.45	2.16	322316

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$43.50**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$96.00**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$134.84**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminal and Splices	**$40.68**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminals and Splices	**$37.91**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$90.90**
A27991-ND	Hand Tool CERTI-CRIMP and PLASTI-GRIP, 26-20 AWG	**$1132.50**

Tyco Electronics AMP
Authorized Distributor

FASTONS™

PIDG FASTON: Receptacle material is brass unless otherwise noted. **Ultra-Fast Plus:** Fully Insulated FASTON Receptacles offer all the advantages of the standard Ultra-Fast product plus an insulation crimp. Ultra-Fast FASTON Receptacles are preinsulated assemblies featuring a co-molded housing produced from two different nylon materials. The receptacle and wire barrel portions of the housing are molded from type 6/6 nylon material with a 125°C UL temperature rating. The insulation barrel is molded from a premium grade nylon. Material: • Housing: Nylon Type 6/6 • Terminal: Tin-Plated, Copper alloy • Base : Brass

Fig. 1

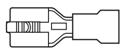

Fig. 2

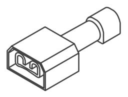

Fig. 3

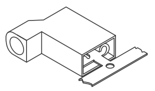

PIDG FASTONS

Fig.	AWG	Insulation Color	Fits Tab Size (Inch)	Insul. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Qty.	Tape & Reel Pricing	AMP Part No.
						10	100			500	1,000				
.110" Low Insertion															
1	22-18	Red	.110 x .016	.140	A27944-ND	.35	.31	640921-1	A27944CT-ND	—	343.43	A27944TR-ND	5,000	274.74/M	640921-2
	22-18	Red	.110 x .020	.140	A09050-ND	.35	.31	640923-1	A09050CT-ND	—	260.13	A09050TR-ND	5,000	208.10/M	640923-2
	22-18	Red	.110 x .032	.140	A09051-ND	.35	.31	640925-1	A09051CT-ND	—	260.13	A09051TR-ND	5,000	208.10/M	640925-2
	16-14	Blue	.110 x .020	.170	A0912-ND	.35	.31	640929-1	A0912CT-ND	—	260.13	A0912TR-ND	4,000	208.10/M	640929-2
	16-14	Blue	.110 x .032	.170	A27967-ND	.35	.31	640931-1	A27967CT-ND	—	260.13	A27967TR-ND	4,000	208.10/M	640931-2
	16-14	Blue	.110 x .016	.170	A27964-ND	.35	.31	640927-1	A27964CT-ND	—	260.13	A27964TR-ND	4,000	208.10/M	640927-2
.110" Standard															
1	22	Red/Green	.110 x .016	.040 - 0.80	A28002-ND#	.87	.77	55319-1	—	—	—	—	—	—	—
	22-18	Trans.	.110 x .016	.110	A27942-ND§	.37	.33	61048-1	A27942CT-ND§	—	404.60	A27942TR-ND§	5,000	323.68/M	61048-2
	22-18	Trans.	.110 x .020	.100	A09049-ND§	.37	.33	61060-1	A09049CT-ND§	—	279.35	A09049TR-ND§	5,000	223.48/M	61060-2
	22-18	Trans.	.110 x .032	.100	A0911-ND§	.37	.33	60894-1	A0911CT-ND§	—	279.35	A0911TR-ND§	5,000	223.48/M	60894-2
.187" Series															
1	26-24	Yellow	.187 x .020	.082	A27940-ND§	.27	.24	641321-1	A27940CT-ND§	—	343.43	A27940TR-ND§	5,000	206.06/M	641321-2
	22-18	Red		.135	A0909-ND	.27	.24	640917-1	A0909CT-ND	—	211.93	A0909TR-ND	4,000	169.54/M	640917-2
	16-14	Blue		.170	A0910-ND	.35	.31	640919-1	A0910CT-ND	—	260.13	A0910TR-ND	4,000	208.10/M	640919-2
.205" Series															
1	22-18	Red	.205 x .020	.135	A09047-ND	.35	.31	640909-1	A09047CT-ND	—	260.13	A09047TR-ND	4,000	208.10/M	640909-2
	22-18	Red/Black	.205 x .020	.140	A27955-ND	.72	.63	640174-1	—	—	—	—	—	—	—
	22-18	Red	.205 x .032	.135	A0907-ND	.35	.31	640911-1	A0907CT-ND	—	260.13	A0907TR-ND	4,000	208.10/M	640911-2
	16-14	Blue	.205 x .020	.170	A09048-ND	.35	.31	640913-1	A09048CT-ND	—	343.43	A09048TR-ND	4,000	274.74/M	640913-2
	16-14	Blue	.205 x .032	.170	A0908-ND	.35	.31	640915-1	A0908CT-ND	—	343.43	A0908TR-ND	4,000	274.74/M	640915-2
.250" Series															
1	22-18	Red	.250 x .032	.140	A0903-ND	.27	.24	640903-1	A0903CT-ND	—	211.93	A0903TR-ND	4,000	169.54/M	640903-2
	22-18	Red		.140	A27957-ND‡	.43	.38	55675-1	A27957CT-ND‡	—	348.68	A27957TR-ND	4,000	278.94/M	55675-2
	16-14	Blue		.170	A0904-ND	.27	.24	640905-1	A0904CT-ND	116.56	211.93	A0904TR-ND	3,500	169.54/M	640905-2
	14-12	Green		.250	A0905-ND§	.49	.43	42844-1	A0905CT-ND§	202.50	368.18	A0905TR-ND§	2,500	294.54/M	42844-3
	14-12	Green		.250	A27977-ND§◊	.54	.47	42844-2	—	—	—	—	—	—	—
	12-10	Yellow		.250	A0906-ND	.39	.34	640907-1	A0906CT-ND	163.03	296.43	A0906TR-ND	2,500	237.14/M	640907-2
	12-10	Yellow		.250	A27978-ND	.99	.87	61198-2	—	—	—	—	—	—	—

§ Not UL or CSA approved or listed # Insulation restricted ‡ Unplated receptacle body ◊ Receptable material is phosphor bronze

Ultra-Fast FASTON Receptacles

Fig.	AWG Color	Insulation Diameter	Mating Tab	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		Digi-Key Part No.	Strip & Reel		AMP Part No.
					10	100			500	1,000		Qty.	Pricing	
Ultra-Fast Plus Fully Insulated														
.110" Series														
2	22-18 Red	.060-.120	.020	—	—	—	—	A27844CT-ND	86.91	149.27	A27844TR-ND	3,000	132.68/M	2-520932-2
.187" Series														
2	22-18 Red	.060-.135	.020	A27846-ND	.35	.31	2-520409-2	A27846CT-ND	92.95	169.00	A27846TR-ND	2,700	135.20/M	2-520401-2
	22-18 Red	.060-.135	.032	A27848-ND	.35	.31	2-520411-2	A27848CT-ND	92.95	169.00	A27848TR-ND	2,700	135.20/M	2-520403-2
	16-14 Blue	.090-.160	.020	A27850-ND	.35	.31	3-520410-2	A27850CT-ND	—	169.00	A27850TR-ND	2,200	135.20/M	3-520402-2
	16-14 Blue	.090-.160	.032	A27852-ND	.35	.31	3-520412-2	A27852CT-ND	—	169.00	A27852TR-ND	2,200	135.20/M	3-520404-2
.250" Series														
2	22-18 Red	.060-.135	.032	A27854-ND	.38	.34	2-520407-2	A27854CT-ND	102.03	185.50	A27854TR-ND	2,200	148.40/M	2-520405-2
	16-14 Blue	.090-.160		A27856-ND	.38	.34	3-520408-2	A27856CT-ND	102.03	185.50	A27856TR-ND	2,200	148.40/M	3-520406-2
Ultra-Fast Fully Insulated														
.110" Series														
2	26-22 Violet	.100	.020	A27793-ND	.29	.25	7-520366-2	A27793CT-ND	—	157.98	A27793TR-ND	3,000	126.38/M	7-520365-2
	22-18 Red	.120	.016	A27795-ND	.29	.25	2-520081-2	A27795CT-ND	—	157.98	A27795TR-ND	3,000	126.38/M	2-520080-2
	22-18 Red	.120	.020	A27797-ND	.25	.22	2-520084-2	A27797CT-ND	—	157.98	A27797TR-ND	3,000	126.38/M	2-520083-2
	22-18 Red	.120	.032	A27799-ND	.29	.25	2-520273-2	A27799CT-ND	—	157.98	A27799TR-ND	3,000	126.38/M	2-520272-2
	22-18 Red	.230	.020	—	—	—	—	A27800CT-ND	92.79	159.37	A27800TR-ND	2,000	141.66/M	2-520306-2
	22-18 Red	.230	.032	—	—	—	—	A27801CT-ND	92.79	159.37	A27801TR-ND	2,000	141.66/M	2-520310-2
	16-14 Blue	.260	.020	—	—	—	—	A27802CT-ND	92.79	159.37	A27802TR-ND	2,000	141.66/M	3-520370-2
.187" Series														
2	22-18 Red	.135	.020	A27804-ND	.24	.21	2-520182-2	A27804CT-ND	80.37	146.13	A27804TR-ND	2,700	116.90/M	2-520181-2
	22-18 Red	.135	.032	A27806-ND	.27	.24	2-520194-2	A27806CT-ND	80.37	146.13	A27806TR-ND	2,700	116.90/M	2-520193-2
	22-18 Red	.230	.020	—	—	—	—	A27807CT-ND	85.78	147.33	A27807TR-ND	2,000	130.96/M	2-520261-2
	22-18 Red	.230	.032	A27809-ND	.29	.26	2-520275-2	A27809CT-ND	—	181.10	A27809TR-ND	2,000	144.88/M	2-520274-2
	16-14 Blue	.160	.020	A27811-ND	.27	.24	3-350816-2	A27811CT-ND	80.37	146.13	A27811TR-ND	2,200	116.90/M	3-350815-2
	16-14 Blue	.160	.032	A27813-ND	.27	.24	3-520125-2	A27813CT-ND	80.37	146.13	A27813TR-ND	2,200	116.90/M	3-520124-2
	16-14 Blue	.260	.020	A27815-ND	.29	.26	3-520151-2	A27815CT-ND	—	163.70	A27815TR-ND	2,000	130.96/M	3-520150-2
.250" Series														
2	22-18 Red	.135	.032	A27817-ND	.26	.23	2-520184-2	A27817CT-ND	88.22	160.40	A27817TR-ND	2,200	128.32/M	2-520183-2
	22-18 Red	.135		A27819-ND†	.40	.35	2-520184-4	A27819CT-ND†	—	211.00	A27819TR-ND†	2,200	168.80/M	2-520183-4
	22-18 Red	.230		A27821-ND	.32	.28	2-520264-2	A27821CT-ND	—	179.78	A27821TR-ND	2,000	143.82/M	2-520263-2
	22-18 Red	.230		—	—	—	—	A27822CT-ND†	123.85	212.72	A27822TR-ND†	2,000	189.08/M	2-520263-4
	16-14 Blue	.160		A27824-ND	.26	.23	3-350820-2	A27824CT-ND	88.22	160.40	A27824TR-ND	2,200	128.32/M	3-350819-2
	16-14 Blue	.160		A27826-ND†	.40	.35	3-520117-2	A27826CT-ND†	—	211.00	A27826TR-ND†	2,200	168.80/M	3-520116-2
	16-14 Blue	.260		A27828-ND	.28	.25	3-520141-2	A27828CT-ND	—	179.78	A27828TR-ND	2,000	143.82/M	3-520140-2
	16-14 Blue	.260		—	—	—	—	A27829CT-ND†	123.85	212.72	A27829TR-ND†	2,000	189.08/M	3-520140-4
	12-10 Yellow	.320		A27831-ND	.36	.32	4-520448-2	A27831CT-ND	113.81	206.93	A27831TR-ND	1,500	165.54/M	4-520447-2
Ultra-Fast Fully Insulated FASTON Tabs														
.250" Series														
—	22-18 Red	.135	.032	A27906-ND	.44	.39	2-520103-2	—	—	—	A27906TR-ND	1,400	235.70/M	2-520102-2
	16-14 Blue	.160		A27907-ND	.44	.39	3-520107-2	—	—	—	A27907TR-ND	1,400	235.70/M	3-520106-2
Ultra-Fast Fully Insulated FASTON Flag Receptacles														
.187" Series														
3	22-18 Red	.165	.020	A27833-ND	.45	.40	2-520335-2	A27833CT-ND	—	267.28	A27833TR-ND	2,200	213.82/M	2-520334-2
	22-18 Red	.165	.032	A27835-ND	.45	.40	2-520337-2	A27835CT-ND	—	267.28	A27835TR-ND	2,200	213.82/M	2-520336-2
	16-14 Blue	.185	.020	A27837-ND	.45	.40	3-520339-2	A27837CT-ND	—	267.28	A27837TR-ND	2,200	213.82/M	3-520338-2
	16-14 Blue	.185	.032	—	—	—	—	A27838CT-ND	140.05	240.55	A27838TR-ND	2,200	213.82/M	3-520340-2
.250" Series														
3	22-18 Red	.165	.032	A27840-ND	.43	.38	2-520129-2	A27840CT-ND	—	287.75	A27840TR-ND	2,200	230.20/M	2-520128-2
	22-18 Red	.230		—	—	—	—	A27841CT-ND	152.91	244.66	A27841TR-ND	1,700	214.08/M	2-520856-2
	16-14 Blue	.185		A27843-ND	.43	.38	3-520133-2	A27843CT-ND	158.26	—	A27843TR-ND	2,100	230.20/M	3-520132-2

† Terminal base material is phosphor bronze

A28005-ND	Hand Tool for FASTONS (without dies)	**$245.66**
A27992-ND	TETRA-CRIMP Hand Tool for PIDG FASTON Receptacles	**$369.26**
A28009-ND	Ultra-Fast Plus Die Set for .187 and .250 Series (22-18 AWG), use with A28005-ND	**$459.00**
A28010-ND	Ultra-Fast Plus Die Set for .187 and .250 Series (16-14 AWG), use with A28005-ND	**$459.00**
A28007-ND	Die Set Ultra-FASTONS for 22-18 AWG, use with A28005-ND	**$238.50**
A28008-ND	Die Set Ultra-FASTONS for 16-14 AWG, use with A28005-ND	**$238.50**
A27997-ND	Hand Tool CERTI-CRIMP for PLASTI-GRIP and PIDG FASTONS 26-24	**$999.00**

Budget and Economy Fastons

Budget Line

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
.250” Series - Insulation Support													
1	20-14	.012	Brass	.250 x .032	.085 - .135	A29936CT-ND	10.69	48.98	89.05	A29936TR-ND	12,000	48.09/M	63648-1
	18-22	.016	Brass		.090 - .130	A27608CT-ND	7.08	29.49	47.18	A27608TR-ND	10,000	31.85/M	42510-1
	18-22	.016	Tin Plated Brass		.090 - .130	A27609CT-ND	7.66	31.91	51.06	A27609TR-ND	10,000	34.47/M	42510-2
	14-18	.016	Brass		.120 - .170	A27610CT-ND	5.78	24.06	38.50	A27610TR-ND	10,000	25.99/M	42400-1
	14-18	.016	Tin Plated Brass		.120 - .170	A27611CT-ND	6.44	26.85	42.96	A27611TR-ND	10,000	29.00/M	42400-2
Flag													
2	12-18	.016	Brass	.250 x .032	.110 - .210	A27612CT-ND	8.08	33.65	53.84	A27612TR-ND	4,000	40.38/M	42511-1
			Tin Plated Brass			A27613CT-ND	7.52	31.31	50.10	A27613TR-ND	4,000	37.58/M	42511-2
3	18-22	.016	Brass	.250 x .032	.060 - 1.00	A27618CT-ND†	9.03	37.63	60.20	A27618TR-ND†	9,000	45.15/M	62718-1
	18-22		Tin Plated Brass		.060 - 1.00	A27619CT-ND†	16.65	69.39	111.02	A27619TR-ND†	11,000	83.27/M	62718-2
	14-18		Brass		.110 - .160	A27614CT-ND▲	13.31	55.46	88.74	A27614TR-ND▲	11,000	66.56/M	63009-1
	14-18		Tin Plated Brass		.110 - .160	A27615CT-ND▲	7.68	32.01	51.22	A27615TR-ND▲	10,000	38.42/M	63009-2
	14-18		Brass		.110 - .160	A27616CT-ND†	7.23	30.14	48.22	A27616TR-ND†	9,000	36.17/M	63010-1
	14-18		Tin Plated Brass		.110 - .160	A27617CT-ND†	8.16	34.00	54.40	A27617TR-ND†	10,000	40.80/M	63010-2
Low Insertion Force													
4	22-18	.016	Brass/Tin	.250 x .032	.090 - .130	A29940CT-ND	9.02	41.36	75.20	A29940TR-ND	10,000	40.61/M	63609-2
	18-14	.016	Steel/Nickel	.250 x .032	.120 - .170	A29941CT-ND	11.20	51.32	93.30	A29941TR-ND	10,000	50.39/M	63674-1
	14-18	.016	Brass	.250 x .032	.120 - .170	A27780CT-ND	6.58	27.41	43.86	A27780TR-ND	10,000	29.61/M	63306-1
	14-18	.016	Tin Plated Brass	.250 x .032	.120 - .170	A27781CT-ND	7.35	30.63	49.00	A27781TR-ND	10,000	33.08/M	63306-2
	14-10	.018	Brass	.250 x .032	.225 - .275	A29942CT-ND	11.16	51.15	93.00	A29942TR-ND	6,000	55.80/M	63539-1
	10-14	.018	Tin Plated Brass	.250 x .032	.150 - .200	A27783CT-ND	10.98	45.74	73.18	A27783TR-ND	9,000	54.89/M	63365-2
.187” Series - Insulation Support													
1	16-20	.012	Brass	.187 x .020	.090 - .130	A27715CT-ND	4.52	18.85	30.16	A27715TR-ND	20,000	20.36/M	42617-1
			Tin Plated Brass	.187 x .020		A27716CT-ND	4.84	20.18	32.28	A27716TR-ND	20,000	21.79/M	42617-2
			Brass	.187 x .032		A27717CT-ND	7.52	31.33	50.12	A27717TR-ND	20,000	33.84/M	61919-1
Flag													
2	16-20	.012	Brass	.187 x .020	.110 - .170	A27718CT-ND	5.94	24.74	39.58	A27718TR-ND	6,000	29.69/M	42618-1
			Tin Plated Brass			A27719CT-ND	6.53	27.20	43.52	A27719TR-ND	6,000	32.64/M	42618-2
Low Insertion Force													
4	16-20	.012	Brass	.187 x .020	.090 - .130	A27786CT-ND	6.38	26.56	42.50	A27786TR-ND	20,000	28.69/M	63475-1
			Tin Plated Brass	.187 x .020		A27787CT-ND	5.28	22.00	35.20	A27787TR-ND	20,000	23.76/M	63475-2
			Brass	.187 x .032		A27788CT-ND	7.47	31.13	49.80	A27788TR-ND	20,000	33.62/M	63477-1
			Tin Plated Brass	.187 x .032		A27789CT-ND	7.73	32.23	51.56	A27789TR-ND	20,000	34.81/M	63477-2

† Right handed flag ▲ Left handed flag

Fig. 1

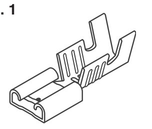

Fig. 2

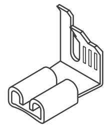

Fig. 3

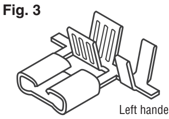

Left handed flag shown

Fig. 4

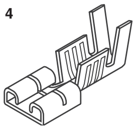

Economy Line

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
.250” Series													
Insulation Support													
1	22-26	.016	Brass	.250 x .032	.040 - .060	A27620CT-NDΔ	11.63	48.46	77.54	A27620TR-NDΔ	12,000	52.34/M	61202-1
	18-22	.016	Brass	.250 x .032	.090 - .130	A27621CT-ND	5.63	23.46	37.54	A27621TR-ND	12,000	25.34/M	42743-1
			Tin Plated Brass			A27622CT-ND	6.33	26.38	42.20	A27622TR-ND	12,000	28.49/M	42743-2
	14-18	.016	Brass	.250 x .032	.120 - .170	A27623CT-ND	5.63	23.46	37.54	A27623TR-ND	12,000	25.34/M	42660-1
			Tin Plated Brass		.120 - .170	A27624CT-ND	6.33	26.38	42.20	A27624TR-ND	12,000	28.49/M	42660-2
			Brass		.150 - .218	A27625CT-ND	6.96	29.01	46.42	A27625TR-ND	10,000	31.34/M	42692-1
			Tin Plated Brass		.150 - .218	A27626CT-ND	6.33	26.38	42.20	A27626TR-ND	10,000	28.49/M	42692-2
2	18-22	.015	Brass	.250 x .032	.060 - .100	A27627CT-ND	14.40	60.01	96.02	A27627TR-ND	2,500	84.02/M	61988-1
			Tin Plated Brass			A27628CT-ND	16.07	66.96	107.14	A27628TR-ND	2,500	93.75/M	61988-2
	14-18	.015	Brass	.250 x .032	.120 - .170	A27629CT-ND	14.36	59.84	95.74	A27629TR-ND	2,500	83.78/M	61944-1
		.015	Tin Plated Brass			A27630CT-ND	15.34	63.90	102.24	A27630TR-ND	2,500	89.46/M	61944-2
		.032-.016	Brass			A27631CT-ND‡	23.28	97.00	155.20	A27631TR-ND‡	2,500	135.80/M	62109-1
		.032-.016	Tin Plated Brass			A27632CT-ND‡	26.50	110.41	176.66	A27632TR-ND‡	2,500	154.58/M	62109-2
Non-Insulation Support													
3	14-18	.016	Brass	.250 x .032	—	A27638CT-ND	7.31	30.45	48.72	A27638TR-ND	14,000	32.89/M	42845-1
3	14-18	.016	Tin Plated Brass		—	A27639CT-ND	7.55	31.44	50.30	A27639TR-ND	14,000	33.96/M	42845-2
4	14-18	.015	Pre-Tin Brass		—	A27640CT-ND	15.23	63.44	101.50	A27640TR-ND	2,500	88.82/M	62276-1
4	10-14	.015	Pre-Tin Brass		—	A27641CT-ND	34.44	143.51	229.62	A27641TR-ND	2,500	200.92/M	62068-1
Flag Insulation Support													
5	14-18	.016	Brass	.250 x .032	.110 - .160	A27635CT-ND▲	6.48	27.00	43.20	A27635TR-ND▲	11,000	32.40/M	63096-1
6	12-18		Brass		.110 - .210	A27636CT-ND	6.74	28.10	44.96	A27636TR-ND	4,000	33.72/M	42742-1
6	12-18		Tin Plated Brass		.110 - .210	A27637CT-ND	7.39	30.80	49.28	A27637TR-ND	4,000	36.96/M	42742-2
Flag Non-Insulation Support													
7	12-18	.016	Pre-Tin Brass	.250 x .032	—	A27642CT-ND†	7.39	30.80	49.28	A27642TR-ND†	5,000	36.96/M	61177-2
			Pre-Tin Brass		—	A27643CT-ND§	12.03	50.14	80.22	A27643TR-ND§	4,000	60.17/M	62091-2
	10-12 or (2)14	.016	Brass	.250 x .032	—	A27644CT-ND§	10.05	41.89	67.02	A27644TR-ND§	4,000	50.27/M	62011-1
			Tin Plated Brass		—	A27645CT-ND§	12.18	50.74	81.18	A27645TR-ND§	4,000	60.89/M	62011-2
.205” Series - Insulation Support													
8	18-22	.012	Brass	.205 x .020	.085 - .125	A27689CT-ND	6.56	27.35	43.76	A27689TR-ND	15,000	29.54/M	42710-1
	18-22		Tin Plated Brass	.205 x .020	.085 - .125	A27690CT-ND	6.78	28.24	45.18	A27690TR-ND	15,000	30.50/M	42710-2
	18-22		Tin Plated Brass	.205 x .032	.085 - .125	A27691CT-ND	16.31	67.96	108.74	A27691TR-ND	20,000	73.40/M	60904-2
	14-18		Tin Plated Brass	.205 x .020	.130 - .180	A27692CT-ND	8.86	36.93	59.08	A27692TR-ND	16,000	39.88/M	42713-2
.187” Series													
Insulation Support													
1	16-20	.012	Brass	.187 x .020	.090 - .130	A27720CT-ND	4.37	18.20	29.12	A27720TR-ND	20,000	19.66/M	42801-1
			Tin Plated Brass	.187 x .020		A27721CT-ND	4.89	20.36	32.58	A27721TR-ND	20,000	22.00/M	42801-2
			Brass	.187 x .032		A27722CT-ND	5.26	21.93	35.08	A27722TR-ND	20,000	23.68/M	60196-1
			Tin Plated Brass	.187 x .032		A27723CT-ND	5.65	23.53	37.64	A27723TR-ND	20,000	25.41/M	60196-2
Non-Insulation Support													
3	16-20	.012	Brass	.187 x .020	—	A27724CT-ND	6.99	29.11	46.58	A27724TR-ND	25,000	29.12/M	42799-1
			Tin Plated Brass		—	A27725CT-ND	7.43	30.98	49.56	A27725TR-ND	25,000	30.98/M	42799-2
Flag Insulation Support													
6	16-20	.012	Brass	.187 x .020	.110 - .170	A27726CT-ND	4.90	20.41	32.66	A27726TR-ND	6,000	24.50/M	42800-1
			Tin Plated Brass	.187 x .020		A27727CT-ND	5.54	23.10	36.96	A27727TR-ND	6,000	27.72/M	42800-2
			Brass	.187 x .032		A27728CT-ND	6.11	25.46	40.74	A27728TR-ND	6,000	30.56/M	60529-1
			Tin Plated Brass	.187 x .032		A27729CT-ND	5.85	24.39	39.02	A27729TR-ND	6,000	29.27/M	60529-2

Δ UL/CSA certified for 22 AWG only † Right handed flag ▲ Left handed flag § Right or left handed. Carrier out front for thru splicing ‡ Dual thickness

Fig. 1

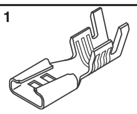

Fig. 2

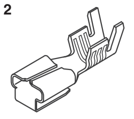

Fig. 3

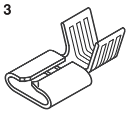

Fig. 4

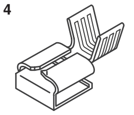

Fig. 5

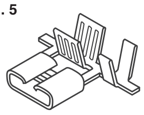

Fig. 6

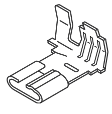

Fig. 7

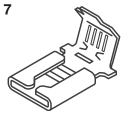

Fig. 8

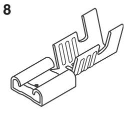

Premier and Commercial Fastons

Fig. 1

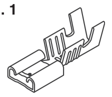

Fig. 2

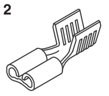

Fig. 3

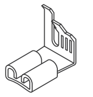

Fig. 4

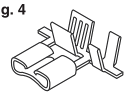

Fig. 5

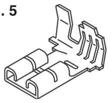

Fig. 6

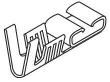

Fig. 7

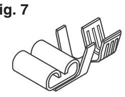

Fig. 8

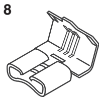

Premier

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	UL	RU	CSA	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
.312" Series - Insulation Support																
1	14-18	.016	Brass	.312 x .032	.090 - .120	—	X	X	A27979CT-ND	13.57	56.54	90.46	A27979TR-ND	8,000	67.85/M	62092-1
	12-16		Tin Plated Brass		.160 or (2) .110 Max.	X	—	X	A27580CT-ND	15.62	65.10	104.16	A27580TR-ND	6,000	78.12/M	61399-1
.250" Series																
1	20-24	.016	Tin Plated Brass	.250 x .032	.030 - .070	X‡	—	X‡	A27581CT-ND	9.92	41.33	66.12	A27581TR-ND	12,000	44.64/M	61368-1
	18-22		Brass		.060 - .100	X	—	X	A27582CT-ND	9.92	41.33	66.12	A27582TR-ND	12,000	44.64/M	42640-1
	18-22		Tin Plated Brass		.060 - .100	X	—	X	A27583CT-ND	8.89	37.05	59.28	A27583TR-ND	12,000	40.02/M	42640-2
	18-22		Brass		.090 - .130	X	—	X	A27584CT-ND	9.92	41.33	66.12	A27584TR-ND	12,500	44.64/M	41771
	18-22		Tin Plated Brass		.090 - .130	X	—	X	A24736CT-ND	—	40.76	74.10	A24736TR-ND	12,500	40.02/M	41772
	14-18	.018	Tin Plated Brass	.250 x .032	.060 - .110	X	—	X	A24744CT-ND	—	—	82.65	A24744TR-ND	12,000	44.64/M	61375-1
		.016	Nickel Plated Steel		.120 - .170	—	X	—	A27588CT-ND	8.06	33.59	53.74	A27588TR-ND	10,000	36.28/M	42219-1
		.018	Brass		.120 - .170	X	—	X	A27587CT-ND	8.89	37.05	59.28	A27587TR-ND	11,000	40.02/M	41202
		.018	Tin Plated Brass		.120 - .170	X	—	X	A27589CT-ND	8.89	37.05	59.28	A27589TR-ND	11,000	40.02/M	41274
	12-16 or (2)18	.018	Brass	.250 x .032	.210-.265 or (2).120 Max.	X	—	X	A27590CT-ND	11.29	47.04	75.26	A27590TR-ND	6,000	56.45/M	41727
		.018	Tin Plated Brass		.210-.265 or (2).120 Max.	X	—	X	A27592CT-ND	10.40	43.34	69.34	A27592TR-ND	6,000	52.01/M	41728
		.016	Nickel Plated Steel		.210 - .265	—	X	—	A27591CT-ND	12.31	51.28	82.04	A27591TR-ND	5,000	61.53/M	42579-1
	10-14	.018	Brass	.250 x .032	.150 - .200	X	—	X	A27595CT-ND	8.89	37.05	59.28	A27595TR-ND	9,000	44.46/M	41449
			Tin Plated Brass			X	—	X	A24737CT-ND	—	—	74.10	A24737TR-ND	9,000	44.46/M	41450
	10-14 or (2)14	.018	Tin Plated Brass	.250 x .032	.225-.275 or (2).140 Max.	X	—	X	A27594CT-ND	10.40	43.34	69.34	A27594TR-ND	6,000	52.01/M	60635-1
			Brass			X	—	X	A27593CT-ND	11.29	47.04	75.26	A27593TR-ND	6,000	56.45/M	60635-3
	10-8	.017	Brass/Tin	.250 x .032	.230 - .280	X	—	X	A29935CT-ND	15.59	71.47	129.95	A29935TR-ND	5,000	103.96/M	62998-2
Non-Insulation Support																
2	14-18	.018	Tin Plated Brass	.250 x .032	—	X	—	X	A24738CT-ND	9.21	38.39	61.42	A24738TR-ND	12,000	41.46/M	41194
Flag Insulation Support																
3	12-18	.018	Brass	.250 x .032	.110 - .210	X	—	X	A27605CT-ND	11.28	47.00	75.20	A27605TR-ND	4,000	56.40/M	41531
		.018	Nickel Plated Steel			—	X	X	A24739CT-ND	13.72	57.16	91.46	A24739TR-ND	3,500	80.03/M	41531-1
		.018	Tin Plated Brass			X	—	X	A27606CT-ND	11.28	47.00	75.20	A27606TR-ND	4,000	56.40/M	41532
		.016	Nickel Plated Steel			—	—	—	A27607CT-ND	10.02	41.76	66.82	A27607TR-ND	3,500	58.47/M	42404-1
4	18-22	.016	Brass	.250 x .032	.060 - .100	X	—	X	A27597CT-ND*	10.43	43.45	69.52	A27597TR-ND*	12,000	52.14/M	62813-1
			Tin Plated Brass			X	—	X	A27598CT-ND*	10.96	45.66	73.06	A27598TR-ND*	12,000	54.80/M	62813-2
			Brass			X	—	X	A27599CT-ND†	13.33	55.54	88.86	A27599TR-ND†	12,000	66.65/M	62814-1
			Tin Plated Brass			X	—	X	A27600CT-ND†	16.68	69.50	111.20	A27600TR-ND†	9,000	83.40/M	62814-2
	14-18	.016	Brass	.250 x .032	.110 - .160	X	—	X	A27601CT-ND*	8.76	36.51	58.42	A27601TR-ND*	11,000	43.82/M	63011-1
			Tin Plated Brass			X	—	X	A27602CT-ND*	7.73	32.20	51.52	A27602TR-ND*	9,000	38.64/M	63011-2
			Brass			X	—	X	A27603CT-ND†	9.20	38.31	61.30	A27603TR-ND†	9,000	45.98/M	63012-1
			Tin Plated Brass			X	—	X	A27604CT-ND†	7.41	30.89	49.42	A27604TR-ND†	11,000	37.07/M	63012-2
Low Insertion Force - Flag Insulation Support																
5	12-18	.016	Brass	.250 x .032	.110 - .210	X	—	X	A27784CT-ND	7.84	32.68	52.28	A27784TR-ND	4,000	39.21/M	63445-1
			Tin Plated Brass			X	—	X	A27785CT-ND	9.35	38.96	62.34	A27785TR-ND	4,000	46.76/M	63445-2
			Brass			X	—	X	A23262CT-ND	10.57	44.04	70.46	A23262TR-ND	4,000	52.85/M	63445-4
Reversible Flag - Straight End Feed - Insulation Support																
6	14-18	.016	Brass	.250 x .032	.090 - .130	X	—	X	A27675CT-ND	8.40	35.01	56.02	A27675TR-ND	6,500	42.02/M	62048-1
			Tin Plated Brass		.090 - .130	X	—	X	A27676CT-ND	9.57	39.89	63.82	A27676TR-ND	6,500	47.87/M	62048-2
			Tin Plated Brass		.170 - .220	X	—	X	A27677CT-ND	13.83	57.63	92.20	A27677TR-ND	8,000	69.15/M	60764-2
.250" Series - Receptacles for Hermetic Header Tabs																
Straight - Insulation Support																
1	14-18	.018	Tin Plated Brass	.250 x .032	.120 - .170	X	—	X	A27657CT-ND§	10.58	44.06	70.50	A27657TR-ND§	11,000	47.59/M	41832
	10-14		Tin Plated Brass		.150 - .200	X	—	X	A27659CT-ND§	13.33	55.55	88.88	A27659TR-ND§	8,000	66.66/M	42437-2
	10-14		Tin Plated Phos. Brz.		.150 - .200	X	—	X	A27660CT-ND◊	14.81	61.73	98.76	A27660TR-ND◊	8,000	74.07/M	42437-5
Flag Insulation Support																
3	12-18	.018	Tin Plated Phos. Brz.	.250 x .032	.110 - .210	X	—	X	A27661CT-ND◊	15.65	65.20	104.32	A27661TR-ND◊	4,000	78.24/M	41800
			Brass			X	—	X	A27662CT-ND§	12.86	53.59	85.74	A27662TR-ND§	4,000	64.31/M	41801
			Tin Plated Brass			X	—	X	A27663CT-ND§	12.02	50.09	80.14	A27663TR-ND§	4,000	60.11/M	41802
			Tin Phosphor Brz.			X	—	X	A27664CT-ND≠	20.16	83.99	134.38	A27664TR-ND≠	4,000	100.79/M	60274-2
	10-12	.018	Tin Plated Brass	.250 x .032	.110 - .210	X	—	X	A27665CT-ND§	13.70	57.06	91.30	A27665TR-ND§	3,500	79.89/M	60851-1
			Silver Plated Brass			X	—	X	A27666CT-ND§	42.07	175.30	280.48	A27666TR-ND§	3,500	245.42/M	60851-2
			Silver Plate Phos. Brz.			X	—	X	A27667CT-ND◊	34.40	143.34	229.34	A27667TR-ND◊	3,500	200.68/M	42563-6
			Nickel Plated Steel			—	—	—	A27668CT-ND	19.79	82.46	131.94	A27668TR-ND	3,500	115.45/M	42563-9
			Tin Plated Phos. Brz.			X	—	X	A27669CT-ND◊	16.38	68.24	109.18	A27669TR-ND◊	3,500	95.54/M	42563-8
Reversible Flag - Side Feed - Insulation Support																
7	12-16	.018	Tin Plated Phos. Brz.	.250 x .032	.130 - .170	X	—	X	A27678CT-ND◊	17.89	74.55	119.28	A27678TR-ND◊	2,500	104.38/M	61188-1
Flag Non-Insulation Support																
8	12-18	.018	Tin Plate Phos. Brz.	.250 x .032	—	X	—	X	A27670CT-ND#	15.33	63.89	102.22	A27670TR-ND#	4,000	76.67/M	62056-6
	12-18		Tin Plated Brass		—	X	—	X	A27671CT-ND#	11.78	49.10	78.56	A27671TR-ND#	4,000	58.92/M	62056-3
	12-18		Tin Plated Brass		—	X	—	X	A27672CT-ND*	11.78	49.10	78.56	A27672TR-ND*	4,000	58.92/M	62056-4
	10-12		Tin Plated Brass		—	X	—	X	A27673CT-ND†	12.63	52.61	84.18	A27673TR-ND†	4,000	63.14/M	62057-3
	10-12		Tin Plated Brass		—	X	—	X	A27674CT-ND††	21.99	91.61	146.58	A27674TR-ND††	4,000	109.94/M	62022-2
.205" Series																
Insulation Support																
1	18-22	.012	Tin Plated Brass	.205 x .020	.085 - .125	X	—	X	A27681CT-ND	8.47	35.28	56.44	A27681TR-ND	20,000	38.10/M	42198-2
	14-18	.016	Tin Plated Brass	.205 x .032	.130 - .180	X	—	X	A27682CT-ND	8.77	36.54	58.46	A27682TR-ND	16,000	43.85/M	42233-2
Non-Insulation Support																
2	18-22	.012	Tin Plated Brass	.205 x .020	—	X	—	X	A27683CT-NDΔ	11.37	47.38	75.80	A27683TR-NDΔ	20,000	51.17/M	42197-2
Flag Insulation Support																
3	16-20	.012	Brass	.205 x .020	.110 - .170	X	—	X	A27684CT-ND	9.59	39.95	63.92	A27684TR-ND	5,000	47.94/M	42199-1
	16-20	.012	Tin Plated Brass	.205 x .020		X	—	X	A27685CT-ND	11.97	49.89	79.82	A27685TR-ND	5,000	59.87/M	42199-2
	14-20	.016	Brass	.205 x .032		X	—	X	A27686CT-ND	10.17	42.39	67.82	A27686TR-ND	5,000	50.87/M	42234-1
	14-20	.016	Tin Plated Brass	.205 x .032		X	—	X	A27687CT-ND	10.17	42.39	67.82	A27687TR-ND	5,000	50.87/M	42234-2
	14-20	.016	Tin Plated Brass	.205 x .020		X	—	X	A27688CT-ND	10.68	44.49	71.18	A27688TR-ND	5,000	53.39/M	62354-1
.187" Series																
Insulation Support																
1	20-24	.012	Tin Plated Brass	.187 x .020	.040 - .070	X‡	—	X‡	A27695CT-ND	7.55	31.45	50.32	A27695TR-ND	20,000	33.97/M	60573-1
			Brass		.040 - .070	X‡	—	X‡	A27696CT-ND	8.42	35.08	56.12	A27696TR-ND	20,000	37.89/M	60573-2
			Tin Plated Brass		.060 - .110	X‡	—	X‡	A27698CT-ND	7.55	31.45	50.32	A27698TR-ND	20,000	33.97/M	62138-1
			Brass		.060 - .110	X‡	—	X‡	A27699CT-ND	7.55	31.45	50.32	A27699TR-ND	20,000	33.97/M	62138-2

‡ UL and CSA certified for 22-20 AWG § Recommended for external use only ◊ Internal or external use ≠ Left hand for internal or external use # Right hand, reverse reel * Left Hand † Right Hand
†† Right or left hand. Carrier is in front to facilitate thru splicing Δ No slots

(Continued)

Premier and Commercial Fastons

Premier *(Cont.)*

Fig.	AWG	Stock Thick-ness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	UL	RU	CSA	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
1	20-24	.012	Tin Plated Brass	.187 x .032	.040 - .070	X‡	—	X‡	A27697CT-ND	8.42	35.08	56.12	A27697TR-ND	20,000	37.89/M	62181-1
	16-20		Brass	.187 x .020	.090 - .130	X	—	X	A27700CT-ND	7.19	29.94	47.90	A27700TR-ND	20,000	32.34/M	42452-1
	16-20		Tin Plated Brass	.187 x .020	.090 - .130	X	—	X	A24732CT-ND	—	—	47.90	A24732TR-ND	20,000	32.34/M	42452-2
	16-20		Brass	.187 x .032	.090 - .130	X	—	X	A27702CT-ND	7.95	33.14	53.02	A27702TR-ND	20,000	35.79/M	61758-1
	16-20		Brass	.187 x .020	.060 - .110	X	—	X	A27703CT-ND	8.42	35.08	56.12	A27703TR-ND	20,000	37.89/M	62137-1
	16-20		Tin Plated Brass	.187 x .020	.060 - .110	X	—	X	A27704CT-ND	8.42	35.08	56.12	A27704TR-ND	20,000	37.89/M	62137-2
1	16-18 or (2)18	.012	Brass	.187 x .020	(2).105 Max.	—	—	X	A27705CT-ND	8.42	35.08	56.12	A27705TR-ND	18,000	37.89/M	60487-1
			Tin Plated Brass	.187 x .020		—	—	X	A27706CT-ND	7.55	31.45	50.32	A27706TR-ND	18,000	33.97/M	60487-2
			Tin Plated Brass	.187 x .015		—	—	X	A27707CT-ND	8.81	36.71	58.74	A27707TR-ND	18,000	39.65/M	61945-1
Non-Insulation Support																
2	16-20	.012	Tin Plated Brass	.187 x .020	—	X	—	X	A27708CT-ND	9.80	40.81	65.30	A27708TR-ND	12,000	44.08/M	42373-2
			Nickel Plated Steel	.187 x .020	—	—	X	—	A27709CT-ND	13.55	56.46	90.34	A27709TR-ND	12,000	60.98/M	42373-3
			Tin Plated Brass	.187 x .015	—	—	—	X	A27710CT-ND	14.56	60.65	97.04	A27710TR-ND	12,000	65.51/M	42374-2
Flag Insulation Support																
3	16-20	.012	Brass	.187 x .020	.110 - .170	X	—	X	A27711CT-ND	8.42	35.10	56.16	A27711TR-ND	6,000	42.12/M	42486-1
			Tin Plated Brass	.187 x .020	.110 - .170	X	—	X	A27712CT-ND	8.42	35.10	56.16	A27712TR-ND	6,000	42.12/M	42486-2
			Tin Plated Brass	.187 x .032	.110 - .170	X	—	X	A27713CT-ND	8.42	35.10	56.16	A27713TR-ND	6,000	42.12/M	62591-1
			Brass	.187 x .020	.170 - .225	X	—	X	A27714CT-ND	9.59	39.95	63.92	A27714TR-ND	5,000	47.94/M	62817-1

‡ UL and CSA certified for 22-20 AWG § Recommended for external use only ◊ Internal or external use ≠ Left hand for internal or external use # Right hand, reverse reel * Left Hand † Right Hand
†† Right or left hand. Carrier is in front to facilitate thru splicing Δ No slots

Premier - Loose Piece

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	UL	RU	CSA	Digi-Key Part No.	Pricing 10	100	AMP Part No.
.250" Series - Insulation Support												
1	18-22	.016	Tin Plated Brass	.250 x .032	.090 - .130	X	—	X	A24736-ND	3.37	29.65	60878-2
	18-16	.018			.060 - .145	X	—	X	A36376-ND	2.15	18.90	41729
	10-14	.018			.150 - .200	X	—	X	A24737-ND	3.37	29.65	61227-1
.187" Series - Insulation Support												
1	16-20	.012	Tin Plated Brass	.187 x .020	.090 - .130	X	—	X	A24732-ND	2.98	26.27	42566-2

Commercial

Fig.	AWG	Stock Thick-ness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
.250" Series - Insulation Support													
1	16-20, (2)23 or (2)20	.016	Brass	.250 x .032	.100 - .140 or (2).060 Max.	A27679CT-ND§	9.78	40.76	65.22	A27679TR-ND§	12,000	44.03/M	60384-1
	14-18 or (2)17	.016	Tin Plated Brass	.250 x .032	.120 - .170 or (2).060 Max.	A27680CT-ND§	12.28	51.15	81.84	A27680TR-ND§	12,000	55.25/M	60385-2
Flag													
2	20-24	.016	Tin Plated Brass	.250 x .032	.048 - .078	A27646CT-ND*	19.88	82.83	132.52	A27646TR-ND*	3,000	115.96/M	60736-2
	16-22		Brass		.090 - .140	A27647CT-ND	9.55	39.78	63.64	A27647TR-ND	3,000	55.69/M	62418-1
	14-18		Brass		.090 - .140	A27649CT-ND	10.33	43.03	68.84	A27649TR-ND	3,000	60.24/M	60290-1
	14-18		Tin Plated Brass		.090 - .140	A27650CT-ND	12.74	54.17	93.04	A27650TR-ND	3,000	82.70/M	60290-2
.187" Series - Insulation Support													
1	14-18	.014	Brass	.187 x .020	.150 - .190	A27730CT-ND	7.71	32.13	51.40	A27730TR-ND	12,000	34.70/M	62016-1
			Tin Plated Brass			A27731CT-ND	10.65	45.29	67.41	A27731TR-ND	12,000	46.67/M	62016-2
	14-18 or (2)16	.014	Brass	.187 x .020	.180 - .230 or (2).110 Max.	A27732CT-ND	8.30	34.60	55.36	A27732TR-ND	12,500	37.37/M	60742-1
			Tin Plated Brass	.187 x .020		A27733CT-ND	8.30	34.60	55.36	A27733TR-ND	12,500	37.37/M	60742-2
	14-18	.014	Brass	.187 x .032	.180 - .230	A29943CT-ND	8.30	38.06	69.20	A29943TR-ND	12,500	37.37/M	63596-1
Receptacle and Tab Combination													
3	16-20	.014	Brass	.187 x .032	.090 - .130	A29944CT-ND	15.80	72.42	131.68	A29944TR-ND	3,500	105.34/M	63646-1
	16-20	.020 (tab) .014 (recept.)	Tin Plated Brass	.187 x .020	.090 - .130	A27738CT-ND	16.24	67.65	108.24	A27738TR-ND	3,500	94.72/M	62026-1
			Brass	.187 x .020	.090 - .130	A27739CT-ND	14.37	59.86	95.78	A27739TR-ND	3,500	83.81/M	62026-2
			Tin Plated Brass	.187 x .020	.060 - .110	A27740CT-ND	16.09	67.04	107.26	A27740TR-ND	3,500	93.86/M	62139-1
Flag													
4	16-20	.012	Brass	.187 x .020	.090 - .130	A27734CT-ND	8.68	36.18	57.88	A27734TR-ND	4,000	43.41/M	60755-1
	16-20		Tin Plated Brass		.090 - .130	A27735CT-ND	11.43	47.64	76.22	A27735TR-ND	4,000	57.17/M	60755-2
	18-22		Brass		.060 - .070	A27736CT-ND	20.83	86.78	138.84	A27736TR-ND	4,000	104.13/M	62085-1
	18-22		Tin Plated Brass		.060 - .070	A27737CT-ND	15.74	65.60	104.96	A27737TR-ND	4,000	78.72/M	62085-2
.110" Series													
Insulation Support													
5	22-24	.010	Pre-Tin Brass	.110 x .020	.040 - .060	A27745CT-ND†	7.04	29.34	46.94	A27745TR-ND†	20,000	31.69/M	42067-1
				.110 x .016		A27746CT-ND	7.04	29.34	46.94	A27746TR-ND	15,000	31.69/M	42415-1
	18-22	.010	Brass/Tin	.110 x .110	.060 - .100	A29945CT-ND	7.40	33.91	61.65	A29945TR-ND	15,000	33.30/M	60415-1
			Brass	.110 x .020	.060 - .100	A24745CT-ND	6.74	28.06	44.90	A24745TR-ND	15,000	30.31/M	42068
			Pre-Tin Brass	.110 x .020	.060 - .100	A27747CT-ND	5.67	23.61	37.78	A27747TR-ND	15,000	25.51/M	42068-1
			Pre-Tin Brass	.110 x .016	.060 - .100	A27748CT-ND	7.04	29.34	46.94	A27748TR-ND	15,000	31.69/M	60118-1
			Pre-Tin Brass	.110 x .032	.060 - .100	A27749CT-ND	6.52	27.18	43.48	A27749TR-ND	15,000	29.35/M	60197-1
			Pre-Tin Brass	.110 x .032	.060 - .100	A27750CT-ND	7.40	30.83	49.32	A27750TR-ND	15,000	33.30/M	60577-1
			Pre-Tin Brass	.110 x .020	.090 - .130	A27751CT-ND	6.54	27.26	43.62	A27751TR-ND	15,000	29.45/M	62094-1
			Pre-Tin Brass	.110 x .020	.120 - .140	A27752CT-ND	7.04	29.34	46.94	A27752TR-ND	12,000	31.69/M	60729-1
			Pre-Tin Brass	.110 x .025	.120 - .140	A27753CT-ND	8.80	36.66	58.66	A27753TR-ND	12,000	39.60/M	61158-1
	16-20	.010	Pre-Tin Brass	.110 x .020	.120 - .140	A27754CT-ND	5.97	24.88	39.80	A27754TR-ND	15,000	26.87/M	61400-1
			Pre-Tin Brass	.110 x .020	.060 - .100	A27755CT-ND	8.23	34.28	54.84	A27755TR-ND	15,000	37.02/M	61408-1
			Pre-Tin Brass	.110 x .032	.120 - .140	A27756CT-ND	6.68	27.81	44.50	A27756TR-ND	9,000	30.04/M	62050-1
			Tin Plated Brass	.110 x .020	.150 - .170	A27757CT-ND	7.52	31.33	50.12	A27757TR-ND	7,000	33.84/M	62191-1
Non-Insulation Support													
6	18-20 or (2)20	.010	Pre-Tin Brass	.110 x .020	—	A27758CT-ND	6.49	27.04	43.26	A27758TR-ND	25,000	27.04/M	42399-1
	16-20			.110 x .016	—	A27759CT-ND	6.57	27.36	43.78	A27759TR-ND	20,000	29.56/M	61457-1
	14-18			.110 x .020	—	A27760CT-ND	8.47	35.28	56.44	A27760TR-ND	6,000	42.33/M	62852-1
Flag Insulation Support													
7	18-22	.012	Tin Plated Brass	.110 x .020	.060 - .100	A27761CT-ND	8.92	37.15	59.44	A27761TR-ND	12,000	40.13/M	61070-1
		.012	Brass	.110 x .020		A27762CT-ND	7.92	32.99	52.78	A27762TR-ND	12,000	35.63/M	61070-2
		.010	Pre-Tin Brass	.110 x .020		A27763CT-ND	8.53	35.53	56.84	A27763TR-ND	12,000	38.37/M	61481-1
		.010	Pre-Tin Brass	.110 x .032		A27764CT-ND	8.53	35.53	56.84	A27764TR-ND	12,000	38.37/M	62336-1
8	18-22	.010	Pre-Tin Brass	.110 x .020	.065 - .100	A27765CT-ND	8.92	37.16	59.46	A27765TR-ND	12,000	40.14/M	61372-1
				.110 x .016		A27766CT-ND‡	10.71	44.63	71.40	A27766TR-ND‡	8,000	53.55/M	61459-1
				.110 x .025		A27767CT-ND‡	8.57	35.69	57.10	A27767TR-ND‡	12,000	38.55/M	61530-1
Flag Non-Insulation Support													
9	16-22	.012	Brass	.110 x .020	—	A27768CT-NDΔ	10.27	42.79	68.46	A27768TR-NDΔ	15,000	46.22/M	60991-1
		.010	Pre-Tin Brass		—	A27769CT-NDΔ	7.61	32.36	48.17	A27769TR-NDΔ	15,000	30.88/M	61549-1
		.010	Pre-Tin Brass		—	A27770CT-NDΔ	7.06	29.41	47.06	A27770TR-NDΔ	15,000	31.77/M	62321-1

§ AMPLIVAR fastons - use with magnet wire * UL listed and CSA certified for 20-22 AWG wire only † UL listed for 22 AWG wire only ‡ CSA certified only Δ UL listed and CSA certified for 18-22 AWG only

Fig. 1

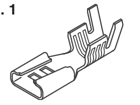

Fig. 2

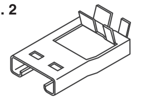

Fig. 3

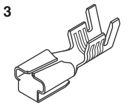

Fig. 4

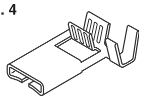

Fig. 5

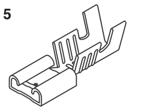

Fig. 6

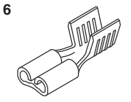

Fig. 7

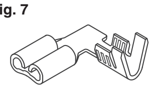

Fig. 8

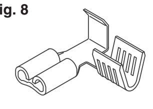

Fig. 9

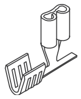

Moldable Line FASTONS

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
.250" Series													
Insulation Support													
1	18-22	.016	Brass	.250 x .032	.090-.130	A27651CT-ND	7.42	30.93	49.48	A27651TR-ND	10,000	33.40/M	63127-1
	14-18		Brass		.120-.170	A27652CT-ND	5.78	24.06	38.50	A27652TR-ND	10,000	25.99/M	60650-1
	14-18		Tin Plated Brass		.120-.170	A27653CT-ND	7.66	31.91	51.06	A27653TR-ND	10,000	34.47/M	60650-2
Non-Insulation Support													
2	14-18	.016	Brass	.250 x .032	—	A27654CT-ND	7.79	32.44	51.90	A27654TR-ND	6,000	38.93/M	60938-1
			Tin Plated Brass		—	A27655CT-ND	10.24	42.65	68.24	A27655TR-ND	12,000	51.18/M	60938-2
Flag-Insulation Support													
3	12-18	.016	Brass	.250 x .032	.110-.210	A27656CT-ND	8.08	33.65	53.84	A27656TR-ND	4,000	40.38/M	60641-1
.205" Series													
Flag-Insulation Support													
3	14-20	.016	Brass	.032	.100-.170	A27693CT-ND	12.25	51.05	81.68	A27693TR-ND	5,000	61.26/M	60195-1
			Tin Plated Brass			A27694CT-ND	13.92	58.01	92.82	A27694TR-ND	5,000	69.62/M	60195-2
.187" Series													
1	16-20	.012	Brass	.020	.090-.130	A27741CT-ND	4.32	18.01	28.82	A27741TR-ND	20,000	19.46/M	60214-1
			Tin Plated Brass			A27742CT-ND	7.70	32.06	51.30	A27742TR-ND	20,000	34.63/M	60214-2
Flag-Insulation Support - Economy Line													
3	16-20	.012	Brass	.020	.110-.170	A27743CT-ND	7.80	32.49	51.98	A27743TR-ND	6,000	38.99/M	61029-1
			Tin Plated Brass			A27744CT-ND	6.86	28.59	45.74	A27744TR-ND	6,000	34.31/M	61029-2

Fig. 1

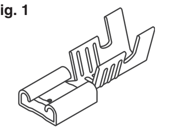

Fig. 2

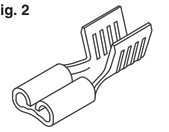

Fig. 3

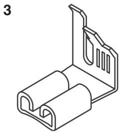

.250" Series FASTIN-FASTON Connectors

Fig. 1

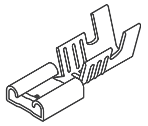

Fig. 2

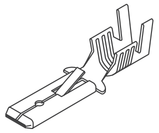

Fig. 3

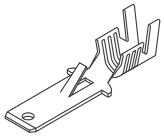

Fig. 4

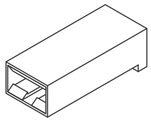

Fig. 5

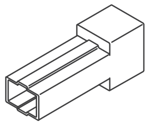

Fig. 6 ***NEW!***

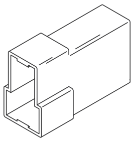

Fig. 7

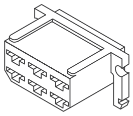

Fig. 8

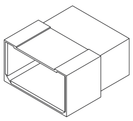

Receptacles

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Fits Tab Size (Inch)	Insulaton Diameter (Inch)	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
Use with Single Circuit Connectors													
1	14-18	.016	Brass	.032	.120-.170	A27926CT-ND	11.88	49.51	79.22	A27926TR-ND	11,000	53.48/M	42281-1
	14-18		Tin Plated Brass		.120-.160	A27927CT-ND	11.88	49.51	79.22	A27927TR-ND	11,000	53.48/M	42281-2
	14-18		Brass		.120-.160	A27928CT-ND*	9.20	38.35	61.36	A27928TR-ND*	10,000	41.42/M	60634-1
	12-16 or (2)16		Brass		.160-.220 or (2).130 Max.	A27929CT-ND	12.31	51.29	82.06	A27929TR-ND	9,000	61.55/M	60249-1
	12-16 or (2)16		Tin Plated Brass		.160-.220 or (2).130 Max.	A27930CT-ND	12.51	52.11	83.38	A27930TR-ND	9,000	62.54/M	60249-2
Use with Multiple Circuit Connectors													
1	18-22	.012	Tin Plated Brass	.032	.085-.125	A27933CT-ND	11.88	49.51	79.22	A27933TR-ND	12,000	53.48/M	60295-2
	18-22		Tin Plated Brass		.060-.100	A27934CT-ND	13.46	56.09	89.74	A27934TR-ND	12,000	60.58/M	60413-1
	14-18		Brass		.120-.160	A27935CT-ND	11.88	49.51	79.22	A27935TR-ND	12,000	53.48/M	42100-1
	14-18		Tin Plated Brass		.120-.180	A27936CT-ND	11.88	49.51	79.22	A27936TR-ND	12,000	53.48/M	42100-2
	12-16 or (2)16		Tin Plated Brass		.160-.210 or (2).130 Max.	A27937CT-ND	13.78	57.40	91.84	A27937TR-ND	10,000	62.00/M	60253-2

* No front slot

Tabs

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Tab Thickness (Inch)	Insulaton Diameter (Inch)	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
Use with Single or Multiple Circuit Connectors													
2	18-22	.015	Brass	.032	.085-.125	A27920CT-ND	17.82	74.25	118.80	A27920TR-ND	9,000	89.10/M	62553-1
	18-22		Tin Plated Brass		.085-.125	A27921CT-ND	14.33	59.69	95.50	A27921TR-ND	9,000	71.63/M	62553-3
	14-18		Brass		.120-.160	A27922CT-ND	9.98	41.60	66.56	A27922TR-ND	9,000	49.92/M	42460-1
	14-18		Tin Plated Brass		.120-.160	A27923CT-ND	9.73	40.55	64.88	A27923TR-ND	9,000	48.66/M	42460-2
	10-14		Tin Plated Brass		.120-.170	A27925CT-ND	12.00	50.01	80.02	A27925TR-ND	9,000	60.02/M	60701-1
3	14-18	.015	Tin Plated Brass	.016	.120-.145	A27924CT-ND†	16.84	70.15	112.24	A27924TR-ND†	8,000	84.18/M	42580-2

† Used for back-to-back with a combined thickness of .032"

Nylon Housings - UL 94V-2

Fig.	Housing Type	Color	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
Single Circuit Tab Housings								
4	Receptacle	Natural	A27915-ND	1.91	16.83	71.58	106.55	480054-3
	Receptacle	Black	A27917-ND	3.08	27.06	115.10	171.33	480054-4
	Receptacle	Red	A27918-ND	3.02	26.57	113.01	168.23	480054-5
5	Tab	Natural	A27916-ND	1.95	17.19	73.10	108.81	480053-3
	Tab	Red	A27919-ND	3.02	26.57	113.01	168.23	480053-5
NEW! Two Circuit Tab Housings NEW!								
6	Tab	Natural	A97719-ND	5.05	44.41	188.90	281.19	180908
Six Circuit Tab Housings								
7	Receptacle	Natural	A27931-ND	10.71	94.25	400.86	596.70	480003-5
8	Tab	Natural	A27932-ND	10.98	96.59	410.84	611.56	480004-5

Water Valve Coil Connector

This connector is designed to mate with the Appliance Industry's Standard Water Valve Coil. The connector is suitable for such applications as washing machine mixing valves, dishwasher fill valves and refrigerators with automatic ice makers.

Specifications: • Material: Nylon • UL 94 Flammability Rating: V-2

Features: • Prevents terminal back-out of housing through plastic retention feature

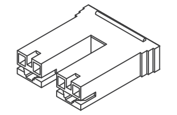

Color	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
Natural	A27938-ND	2.69	23.65	100.58	149.72	520935-1
Red	A27939-ND	3.05	26.84	114.17	169.94	520935-2

FASTON Tabs

Fig.	Stud Dia. (Inch)	Stock Thick-ness (Inch)	Material/Finish and Description	UR	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
.250" Series (dimple - both sides)											
1	—	.032	Steel/Nickel	X	X	A29946-ND	3. 58	31.51	134.01	199.49	42559-1
	.177		Brass	—	—	A27857-ND	1.39	12.20	51.89	77.24	63038-2
2	.130	.032	Tin Plated Brass	X	X	A27858-ND	1.83	16.07	68.34	101.73	42822-2
	.145		Tin Plated Brass	X	X	A27859-ND	1.83	16.07	68.34	101.73	42822-4
	.171		Brass	X	X	A27860-ND	1.79	15.74	66.93	99.63	60465-1
	.171		Tin Plated Brass	X	X	A27861-ND	2.06	18.14	77.15	114.84	60465-2
	.197		Tin Plated Brass	X	X	A27863-ND	2.06	18.14	77.15	114.84	61499-1
	.203		Tin Plated Brass	X	X	A27862-ND	1.96	17.28	73.50	109.41	61365-1
3	.097	.032	Brass	X	X	A27864-ND	4.44	39.11	166.33	247.59	41339
	.130		Tin Plated Brass	X	X	A27865-ND	4.35	38.24	162.65	242.11	42095-1
	.130		Tin Plated Brass	X	X	A27866-ND	2.04	17.99	76.52	113.90	42117-2
	.171		Brass	X	X	A27867-ND	3.01	26.52	112.80	167.91	42214-1
	.171		Tin Plated Brass	X	X	A27868-ND	2.28	20.07	85.37	127.08	42214-2
4	.125	.032	Brass	X	X	A27869-ND	2.02	17.75	75.48	112.36	41398
5	.130	.032	Tin Plated Brass	X	X	A27870-ND	1.76	15.46	65.78	97.91	42506-2
6	.097	.032	Tin Plated Brass, 1 Pair	—	—	A27882-ND	2.14	18.82	80.04	119.15	60080-2
	.130		Brass, 1 Pair	X	X	A27872-ND	1.76	15.52	66.01	98.26	41290
	.130		Brass, 2 Pair	X	X	A27873-ND	3.96	34.82	148.08	220.43	41291
	.130		Brass, 3 Pair	X	X	A27874-ND	4.84	42.57	181.08	269.55	41292
	.130		Brass, 4 Pair	X	X	A27875-ND	12.15	106.88	454.60	676.69	41370
	.130	.032	Tin Plated Brass, 1 Pair	X	X	A27876-ND	2.04	17.93	76.27	113.53	41480
	.130		Tin Plated Brass, 2 Pair	X	X	A27877-ND	3.80	33.40	142.07	211.48	41481
	.130		Tin Plated Brass, 3 Pair	X	X	A27878-ND	11.17	98.27	417.97	622.17	41482
	.171		Brass, 1 Pair	X	X	A27880-ND	1.76	15.52	66.01	98.26	41619
	.171		Tin Plated Brass, 1 Pair	X	X	A27881-ND	5.02	44.14	187.75	279.47	42802-1
7	.130	.032	Brass	X	X	A27871-ND	4.75	41.84	177.95	264.89	62261-1
Cut Tape and Tape and Reel											
6	.130	.032	Tin Plated Brass	X	X	A27879CT-ND A27879TR-ND	—	39.53 1581.36/6,000	164.73	263.56	42115-4
.187" Series											
3	.145	.020	Tin Plated Brass	X	X	A27894-ND	1.32	11.59	49.31	73.40	61407-3
6	.130	.020	Tin Plated Brass	X	X	A27893-ND	1.94	17.08	72.67	108.17	61951-1
8	.130	.020	Tin Plated Brass	X	X	A27895-ND†	1.09	9.62	40.92	60.92	61761-2
	.145		Brass	X	X	A27896-ND†	1.20	10.55	44.85	66.77	62576-1
	.171		Tin Plated Brass	X	X	A27897-ND†	1.04	9.14	38.85	57.84	61664-1

† Bent 45°

Fig. 1

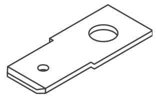

Fig. 2

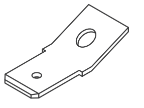

Fig. 3

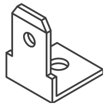

Fig. 4

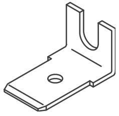

Fig. 5

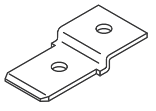

Fig. 6

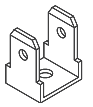

Fig. 7

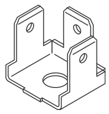

Fig. 8

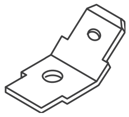

Wire Crimp

Fig. 1

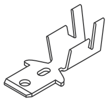

Fig. 2

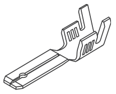

Fig. 3

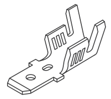

Fig. 4

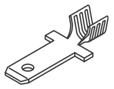

Fig.	AWG	Stock Thick-ness (Inch)	Material and Finish	Tab Thick-ness (Inch)	Insulation Diameter (Inch)	UL	UR	CSA	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
.250" Series																
1	14-18	.032	Brass	.032	.120-.170	X	—	X	A27887CT-ND	9.90	41.26	66.02	A27887TR-ND	8,000	49.52/M	41411
	14-18		Tin Plated Brass			X	—	X	A27888CT-ND	8.09	33.71	53.94	A27888TR-ND	8,000	40.46/M	41412
2	18-22	.016	Brass	.032	.080-.120	—	X	X	A27883CT-ND	23.64	98.49	157.58	A27883TR-ND	3,500	137.89/M	42475-3
	18-22	.016	Tin Plated Brass		.080-.120	—	X	X	A27884CT-ND	12.07	50.29	80.46	A27884TR-ND	3,500	70.41/M	42475-4
	14-18	.016	Tin Plated Brass		.110-.150	—	X	X	A24741CT-ND	13.31	55.44	88.70	A24741TR-ND	3,000	77.62/M	42474-2
	14-18	.016	Brass		.110-.150	—	X	X	A27885CT-ND	9.41	39.21	62.74	A27885TR-ND	3,000	54.90/M	42474-3
	14-18	.016	Tin Plated Brass		.110-150	—	X	X	A27886CT-ND	12.07	50.29	80.46	A27886TR-ND	3,000	70.41/M	42474-4
	12-14	.016	Tin Plated Brass		.110-.170	—	X	X	A27889CT-ND	12.33	51.38	82.20	A27889TR-ND	3,000	71.93/M	61281-3
	18-22	.020	Tin Plated Brass		.070-.130	—	—	X	A29950CT-ND	11.32	51.87	94.30	A29950TR-ND	4,500	56.58/M	63138-1
.187" Series																
3	18-22	.020	Tin Plated Brass	.020	.080-.120	X	—	X	A27898CT-ND	9.07	37.80	60.48	A27898TR-ND	5,000	45.36/M	42490-3
	18-22		Brass	.020	.080-.120	X	—	X	A27899CT-ND	9.99	41.64	66.62	A27899TR-ND	5,000	49.97/M	42490-4
	14-18		Brass	.020	.120-.150	X	—	X	A27900CT-ND	9.18	38.24	61.18	A27900TR-ND	3,500	61.18/M	60850-1
	14-18		Tin Plated Brass	.020	.120-.150	X	—	X	A27901CT-ND	12.33	51.38	82.20	A27901TR-ND	3,500	71.93/M	60850-2
	14-18		Tin Plated Brass	.032	.120-.150	X	—	X	A27902CT-ND‡	13.54	56.40	90.24	A27902TR-ND‡	3,500	78.96/M	61687-2
.110" Series																
4	18-22	.020	Pre-Tin Brass	.020	—	X	—	X	A24783CT-ND	9.60	39.99	63.98	A24783TR-ND	10,000	43.19/M	62122-1
									A24784CT-ND	11.94	49.76	79.62	A24784TR-ND	10,000	53.75/M	62384-1

‡ Premilled dual stock thickness

Printed Circuit Board Tabs

Fig. 1

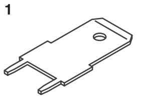

Fig. 2

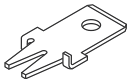

Fig. 3

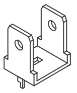

Fig. 4

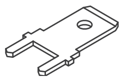

Fig. 5

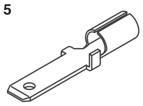

Fig. 6

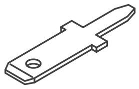

Fig.	Fits Tab Size (Inch)	Material and Finish	PCB Hole Dia. (Inch)	PCB Thickness (Inch)	UR	CSA	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AMP Part No.
.250" Series																
1	.250 x .032	Tin Plated Brass	.055	.175	X	X	—	—	—	—	A29947CT-ND	84.78	A29947TR-ND	6,000	50.87/M	63650-1
	.250 x .032		.055	.125	X	X	A24742-ND	.88	7.76	62409-1	A24742CT-ND	59.93	A24742TR-ND	6,000	35.96/M	62650-1
2	.250 x .032	Tin Plated Brass	.100	.062	X	X	A24743-ND	4.26	37.52	63067-1	A24743CT-ND	165.70	A24743TR-ND	4,000	99.42/M	63066-1
.187" Series																
3	.187 x .020	Pre-Tin Brass	.137	.062	X	X	—	—	—	—	A24734CT-ND	72.06	A24734TR-ND	10,000	48.65/M	62221-1
4	.187 x .032	Tin-Plated Brass	.055	.125	X	X	—	—	—	—	A24735CT-ND	53.42	A24735TR-ND	10,000	36.06/M	63525-1
.110" Series																
5	.110 x .020	Tin Brass	.057	.032 -.093	X	X	A24840-ND	2.36	20.80	61134-3	—	—	—	—	—	—
6			.046	.062	X	X	—	—	—	—	A24747CT-ND	66.10	A24747TR-ND	10,000	44.62/M	62395-1

(Continued)

High Temperature Tabs (343°C to 371°C)

AWG	Material and Finish	Tab Thickness (Inch)	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
.312" Series										
15-20	Steel Nickel Plated	.032	A27904CT-ND	16.19	67.44	121.39	A27904TR-ND	2,000	107.90/M	63300-1
.250" Series										
15-20	Steel Nickel Plated	.032	A27905CT-ND†	15.33	63.89	115.00	A27905TR-ND†	3,000	102.22/M	63301-1

† Dimple instead of a hole

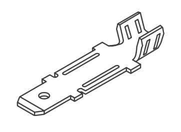

Tab Adapters

Fig.	Dual Thickness (Inch)	Material and Finish	Fits Tab (Inch)	UL	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
.250" Series Tab Adapters											
1	.018 - .032	Brass Tin Plated Brass	.032	X X	— —	A27890-ND A27891-ND	2.97 2.24	26.11 19.73	111.06 83.91	165.32 124.90	61765-1 61765-2
2	—	Tin Plated Brass	.032	—	—	A27892-ND	5.35	47.08	200.26	298.10	61810-2
.187" Series Tab Adapters											
1	.013 - .020	Tin Plated Brass	.020	X	X	A27903-ND‡	1.79	15.76	67.05	99.80	61045-2

‡ Premilled dual stock thickness

Fig. 1

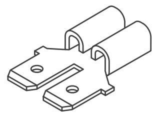

Fig. 2

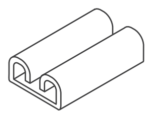

Positive Lock Mark I and II

6/6 Nylon Housing - UL 94V-2

Fig.	Housing Type	Color	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
.250" Mark I - 1 Position								
1	Receptacle	Black	A24749-ND§	1.81	15.92	67.70	100.78	520961-1

§ Press-to-release with secondary lock

Fig. 1

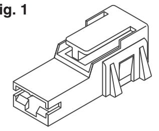

Fig. 2

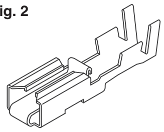

Fig. 3

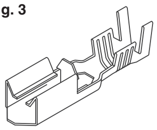

Receptacles

Fig.	AWG	Stock Thickness (Inch)	Material and Finish	Tab Thickness (Inch)	Insulaton Diameter (Inch)	Digi-Key Part No.	Pricing 100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
.250" Series - Mark I													
2	14-18 11-13	.016	Brass/Tin	— —	.095-.125 .135-.170	A24750CT-ND A24751CT-ND	26.27 27.32	109.46 113.83	197.03 204.89	A24750TR-ND A24751TR-ND	1,500 1,500	175.14/M 182.12/M	154718-3 154717-3
.250" Series - Mark II													
3	14-18 10-12	— —	Brass/Tin	.032	.090-.155 .150-.200	A24753CT-ND A24755CT-ND	9.77 14.36	40.69 59.83	65.10 95.72	A24753TR-ND A24755TR-ND	6,000 6,000	48.83/M 71.79/M	63097-1 63239-1
.187" Series - Mark II													
3	16-20 20-24	— —	Brass/Tin Brass/Pre-Tin	.020 .032	.090-.130 .060-.110	A24756CT-ND A24757CT-ND	8.67 11.66	36.13 48.56	57.80 77.70	A24756TR-ND A24757TR-ND	12,000 12,000	39.02/M 52.45/M	63195-1 63196-2

AMPIP Post-Insulation Pods - Receptacle Housings

Fig.	Material	Flammability Rating Of Plastic Material	Color	Insulaton Max. Dia. (Inch)	Fits Tab Size (Inch)	UL	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
Flag Style													
1	Nylon Nylon Vinyl Nylon	UL 94V-2 UL 94V-2 UL 94HB UL 94V-2	Natural Natural Blue Natural	.210 .140 or (2).110 .150 .175	.250 .250 .250 .187	X X — X	X X — X	A27908-ND A27909-ND A27910-ND A27911-ND	1.56 6.10 13.11 9.07	13.72 53.71 115.39 79.85	58.37 228.42 490.79 339.60	86.89 340.02 730.57 505.52	1-480307-1 1-480306-1 480019-6 1-480487-2
Straight Style													
2	Nylon	UL 94V-2	Natural	.200 .180 .170	.250 .205 .187	X X X	X X X	A27912-ND A27913-ND A27914-ND	1.51 3.39 1.52	13.28 29.79 13.35	56.47 126.70 56.79	84.06 188.60 84.53	1-480416-0 1-480418-0 1-480435-0

Fig. 1

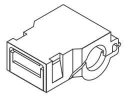

Fig. 2

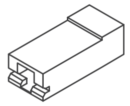

Line Splice Connector

Fig.	Material and Finish	Fits Tab Size (Inch)	UL	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
1	Plastic Tube over Brass Tab Plastic Tube over Tin Plated Brass Tab	.250	— X	— X	A24729-ND A24730-ND†	3.22 4.86	28.38 42.75	120.70 181.84	179.67 270.68	321235 1-321235-1
2	Natural Nylon Housing over Brass Tab	.187	X	—	A24731-ND‡	9.81	86.33	367.17	546.55	360035-1

† Recommended for UL applications ‡ Flammability UL 94V-2 rating of plastic material

Fig. 1

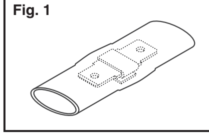

Fig. 2

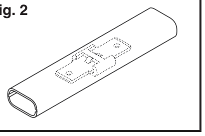

Tools

A9796-ND	Tool Die Set 14-26AWG, Ultrafast	**$213.62**
A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$40.68**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminal and Splices	**$37.91**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$90.90**

Ring Tongue Terminals

AMPLI-BOND Ring Tongue

Temperature Rating: 105°C Maximum
Material:
- Insulation: Vinyl
- Terminal Body: Copper per ASTM B-152
- Insulation Support Ring: Steel per ASTM-A-109
- Plating: Tin per MIL-T-10727

Fig. 1

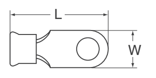

Fig. 2

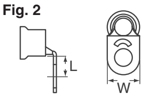

AWG	Stud Size	Dimensions W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
Straight - Fig. 1							
8 Red	1/2	.875 x 1.846	.298	A28023-ND	4.11	3.61	328463
Right Angle - Fig. 2							
4 Yellow	1/4	.546 x .377	.436	A27565-ND	3.96	3.48	322894
				A33736-ND◆	4.34	3.82	54748-1
2 Red	1/4	.675 x .371	.505	A28034-ND	5.07	4.46	322900

◆ ***RoHS Compliant***

TERMINYL Ring Tongue

These terminals have been designed to provide insulated terminals and splices for large wire sizes, many of which are used in airborne and ground support applications. **Temperature Rating:** 105°C maximum **Material:** • Insulation: Nylon • Terminal Body: ASTM B-152 • Plating: Tin per MIL-T-10727

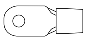

AWG	Stud Size	Dimensions – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
8 Red	8	.478 x 1.425	.256	A27378-ND	1.82	1.60	53041
	10	.431 x 1.402		A27379-ND	1.71	1.51	324043
	1/4	.478 x 1.425		A27380-ND	1.94	1.71	324082
	5/16	.587 x 1.542		A27381-ND	1.84	1.62	324044
	3/8	.587 x 1.542		A27382-ND	1.81	1.59	324045
6 Blue	10	.468 x 1.575	.314	A27383-ND	2.13	1.88	324046
	10	.398 x 1.700		A27384-ND	2.49	2.20	53119-1
	1/4	.500 x 1.700		A27385-ND	2.13	1.88	324047
	5/16	.625 x 1.762		A27386-ND	2.13	1.88	324048
	3/8	.625 x 1.762		A28015-ND	3.48	3.06	324049
4 Yellow	8	.437 x 1.376	.382	A27387-ND	2.77	2.44	331456
	10	.546 x 1.812		A27388-ND	2.83	2.49	324111
	10	.437 x 1.376		A27554-ND	4.32	3.81	1-331456-0
	1/4	.546 x 1.812		A27389-ND	2.58	2.27	324050
	5/16	.679 x 1.878		A27390-ND	2.58	2.27	324051
	3/8	.679 x 1.878		A27391-ND	2.93	2.58	324052
	1/2	.679 x 1.878		A28016-ND	2.96	2.61	324114
2 Red	10	.711 x 2.063	.468	A28017-ND	4.18	3.68	328655
	1/4	.679 x 2.045		A27392-ND	3.36	2.95	324053
	5/16	.711 x 2.063		A27393-ND	3.97	3.50	324112
	3/8	.711 x 2.063		A27394-ND	3.36	2.95	324054
1/0 Blue	1/4	.807 x 2.426	.580	A27395-ND	6.70	5.90	324056
	3/8			A27396-ND	4.57	4.02	324057
2/0 Yellow	3/8	.926 x 2.416	.610	A32019-ND	5.18	4.56	324084

DIAMOND GRIP

These terminals are designed for complete uniform reliability under the most critical conditions of vibrations, thermal shock, corrosion, tensions and current overload.

Material: • Terminal Body and Metallic Sleeve: Copper per QQ-C-576 • Plating: Tin per MIL-T-10727 **AMP Wire:** Stranded **Temperature Rating:** 170°C maximum

AWG	Stud Size	Dimensions – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
26-22	0	.140 x .464	.082	A28038-ND	.53	.47	31516
	2	.140 x .464		A27397-ND	.53	.47	31518
	4	.203 x .585		A28039-ND	.53	.47	31679
	6	.250 x .679		A28040-ND	.53	.47	32861
22-16	4	.218 x .603	.125	A28041-ND	.54	.48	31094
	6	.218 x .603	.125	A27398-ND	.54	.48	31096
	6	.281 x .728	.125	A28042-ND	.53	.47	31269
	6	.281 x .728	.140	A28043-ND	.53	.47	31396
	8	.312 x .775	.125	A27399-ND	.53	.47	30996
	8	.312 x .775	.140	A28044-ND	.53	.47	31160
	8	.281 x .728	.125	A28045-ND	.53	.47	31270
	8	.281 x .728	.140	A28046-ND	.69	.61	31397
	10	.312 x .775	.125	A27400-ND	.54	.48	30997
	10	.281 x .728	.140	A27401-ND	.53	.47	31398
16-14	6	.250 x .634	.170	A28047-ND	.69	.61	32190
	8	.343 x .790	.170	A28048-ND	.53	.47	30927
	10	.343 x .790	.150	A28049-ND	.54	.48	30993
	10	.343 x .790	.170	A28050-ND	.53	.47	30928
12-10	10	.375 x 1.007	.230	A27402-ND	.74	.65	31771
	1/4	.531 x 1.251		A28051-ND	.83	.73	31772
	3/8	.593 x 1.345		A28052-ND	.86	.76	31828

BUDGET - Ring Tongue

Budget Terminals are primarily the same as SOLISTRAND products except for the absence of the brazed seam in the wire barrel. This terminal is ideal for applications where extreme vibration and tension in the wire are not present.

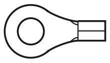

• **Temperature Rating:** 170°C maximum • **Material:** Terminal & Splice Body: Copper per ASTM B-152. Plating: Tin per MIL-T-10727 • **AMP Wire Range:** 22-16 Stranded, 16-14 Stranded, 12-10 Stranded • **UL Listed**

AWG	Stud Size	Dimensions – Inch W x L	Digi-Key Part No.	Pricing		AMP Part No.
				10	100	
26-22	0	.140 x .329	A28255-ND	1.01	8.93	31423
	2	.140 x .329	A27147-ND	1.01	8.93	31425
	2	.203 x .450	A28257-ND	1.01	8.93	33695
	2	.140 x .419	A28256-ND	1.01	8.93	322771
	4	.203 x .450	A27148-ND	1.01	8.93	31428
	6	.203 x .450	A27149-ND	1.01	8.93	31430
	6	.250 x .544	A28258-ND	3.46	30.41	32858
	8	.250 x .544	A28259-ND	1.01	8.93	32859
	10	.250 x .544	A28260-ND	1.01	8.93	32860
22-16	1	.218 x .449	A28261-ND	1.28	11.25	31087
	2	.218 x .499	A28263-ND	1.28	11.25	31088
	2	.182 x .446	A28262-ND	1.28	11.25	320677
	4	.218 x .449	A28265-ND	1.28	11.25	31089
	4	.182 x .446	A28264-ND	4.35	38.32	36189
	4	.250 x .621	A28266-ND	1.28	11.25	322418
	5	.218 x .449	A27150-ND	1.28	11.25	31090
	6	.218 x .449	A28267-ND	1.28	11.25	31091
	6	.281 x .574	A28269-ND	1.28	11.25	31264
	6	.312 x .621	A28270-ND	1.28	11.25	30691
	8	.312 x .621	A28273-ND	1.28	11.26	30692
	8	.281 x .574	A28272-ND	1.28	11.25	31265
	8	.344 x .653	A28274-ND	1.28	11.25	32823
	10	.312 x .621	A28276-ND	1.28	11.25	30693
	10	.281 x .574	A28275-ND	1.28	11.25	31266
	10	.344 x .653	A28277-ND	4.35	38.32	32824
	12	.312 x .621	A28278-ND	1.28	11.25	30694
	1/4	.469 x .856	A27151-ND	5.08	44.74	31172
	5/16	.469 x .856	A28281-ND	1.49	13.15	31173
	5/16	.531 x .995	A28282-ND	3.08	27.10	324124
	3/8	.531 x .995	A28280-ND	3.08	27.10	31498
	1/2	.713 x 1.070	A28279-ND	4.38	38.57	328970
16-14	2	.180 x .445	A28284-ND	1.28	11.25	326854
	4	.250 x .480	A28285-ND	1.28	11.25	32185
	6	.343 x .636	A28286-ND	1.28	11.25	30695
	6	.250 x .480	A28287-ND	1.28	11.25	32186
	6	.312 x .590	A28288-ND	1.28	11.25	321683
	8	.343 x .636	A28289-ND	1.28	11.25	30696
	8	.312 x .590	A28290-ND	1.28	11.25	322235
	10	.312 x .621	A28291-ND	1.28	11.25	51872-5
	10	.343 x .636	A27152-ND	1.28	11.25	30697
	12	.469 x .855	A28292-ND	1.49	13.15	31163
	14	.468 x .730	A28293-ND	1.49	13.15	34896
	1/4	.469 x .855	A28294-ND	1.49	13.15	31164
	5/16	.469 x .855	A28295-ND	1.49	13.15	31165
	3/8	.531 x .995	A28296-ND	3.08	27.10	31499
	1/2	.713 x 1.070	A28297-ND	4.38	38.57	328971
12-10	4	.281 x .630	A28299-ND	2.02	17.76	34891
	6	.281 x .630	A28300-ND	2.02	17.76	34892
	6	.375 x .765	A28301-ND	2.02	17.76	31112
	8	.312 x .708	A28302-ND	2.02	17.76	34404
	8	.375 x .765	A28303-ND	2.02	17.76	31113
	10	.343 x .723	A28304-ND	2.02	17.76	32882
	10	.375 x .765	A27153-ND	2.02	17.76	31114
	10	.500 x .865	A28305-ND	2.32	20.38	34964
	1/4	.500 x .865	A28307-ND	2.32	20.38	34965
	1/4	.531 x 1.004	A28308-ND	2.32	20.38	31122
	5/16	.531 x 1.004	A28312-ND	2.32	20.38	31123
	3/8	.593 x 1.098	A28309-ND	2.32	20.38	30972
	3/8	.750 x 1.271	A28310-ND	4.65	40.89	34833
	1/2	.715 x 1.102	A28306-ND	4.65	40.89	52269-1

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for for PIDG and PLASTI-GRIP R, B, and Y Insulated Terminals, use with A9996-ND	**$43.50**
A9811-ND	Crimp Tool with Die Set for PIDG and PLASTI-GRIP R, B, and Y Insulated Terminals	**$96.00**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit	**$134.84**
A31882-ND	PRO-CRIMPER II Hand Tool, 22-10AWG, with Die	**$674.18**
A31883-ND	Die Set for Budget Terminal and Butt Splice, 22-10AWG, use with A9996-ND	**$599.94**

Tyco Electronics AMP
Authorized Distributor

Solistrand Ring Tongue Terminals

SOLISTRAND terminals and splices are specially designed to terminate solid and stranded wire. The barrel is completely closed and the seam is brazed for uniform metal strength around the entire barrel area.

Temperature Rating: 170°C maximum

Material: • Terminal Body: copper per ASTM B-152
• Plating: Tin per MIL-T-10727

UL Listed. CSA Certified. Military Approval.

Fig. 1

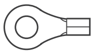

Fig. 2

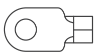

Fig.	AWG	Stud Size	Dim. Inch W x L	Digi-Key Part No.	Pricing		AMP Part No.
					10	100	
1	26-22	2	.140 x .419	A27000-ND	6.57	57.79	50334
	22-16	2	.182 x .446	A27002-ND	2.19	19.26	322927
		2	.218 x .449	A27001-ND	2.26	19.87	34103
		4	.182 x .446	A27003-ND	5.64	49.61	36467
		4	.218 x .449	A0914-ND	1.71	15.05	34104
		4	.250 x .621	A28055-ND	9.17	80.71	323096
		6	.218 x .449	A0915-ND	1.66	14.59	34105
		6	.281 x .574	A27006-ND	1.66	14.59	34107
		6	.312 x .621	A27008-ND	1.71	15.05	34110
		8	.281 x .574	A0916-ND	1.66	14.59	34108
		8	.312 x .621	A27009-ND	1.66	14.59	34111
		10	.281 x .574	A0917-ND	1.66	14.59	34109
		10	.312 x .621	A27012-ND	1.71	15.05	34112
		10	.344 x .653	A27015-ND	3.08	27.14	323087
		1/4	.469 x .856	A0918-ND	1.94	17.05	34113
		1/2	.713 x 1.070	A27019-ND	4.98	43.79	329966
		5/16	.469 x .856	A0919-ND	2.00	17.59	34114
		3/8	.531 x .995	A0920-ND	2.06	18.12	34115
	16-14	4	.250 x .480	A27020-ND	3.83	33.73	34119
		6	.343 x .636	A27021-ND	1.66	14.59	34121
		6	.250 x .480	A0921-ND	1.66	14.59	34120
		6	.312 x .590	A27023-ND	1.71	15.05	321684
		8	.343 x .636	A0922-ND	1.66	14.59	34122
		8	.343 x .723	A27154-ND‡	3.87	34.08	35432
		8	.312 x .590	A27025-ND	2.39	21.01	324955
		10	.343 x .636	A0923-ND	1.66	14.59	34123
		10	.312 x .669	A27028-ND	2.26	19.87	320093
		10	.343 x .723	A27155-ND‡	3.23	28.40	34567
		1/4	.469 x .855	A0924-ND	1.94	17.05	34124
		1/4	.500 x .865	A27157-ND‡	4.22	37.10	35775
		1/2	.750 x 1.184	A27031-ND	4.98	43.79	50981
		1/2	.750 x 1.271	A27160-ND‡	21.54	189.51	321165
		5/16	.469 x .855	A0925-ND	2.00	17.59	34125
		5/16	.500 x .865	A27158-ND‡	4.78	42.05	35776
		3/8	.531 x .995	A0152-ND	2.45	21.60	34126
		3/8	.750 x 1.271	A27159-ND‡	7.09	62.40	327732
2	14-12	10	.421 x .739	A27032-ND	3.09	27.17	34484
		10	.312 x .685	A27033-ND	3.45	30.36	321828
		3/8	.687 x 1.120	A27034-ND	8.73	76.85	34486
1	12-10	4	.281 x .630	A27035-ND	2.38	20.92	322447
		6	.281 x .630	A0926-ND	2.45	21.58	35476
		6	.375 x .765	A27036-ND	2.89	25.47	33456
		8	.312 x .708	A27038-ND	3.22	28.37	322454
		8	.375 x .765	A0927-ND	2.38	20.92	32994
		10	.343 x .723	A27040-ND	4.34	38.19	322455
		10	.375 x .765	A0928-ND	2.20	19.36	33457
		10	.375 x .808	A27042-ND	6.90	60.72	31805
		10	.500 x .865	A27043-ND	8.43	74.22	35771
		1/4	.500 x .865	A27045-ND	2.66	23.43	35772
		1/4	.531 x 1.004	A0929-ND	2.73	24.02	33458
		5/16	.531 x 1.004	A0930-ND	2.82	24.79	33459
		3/8	.593 x 1.098	A0931-ND	2.82	24.79	33220
		1/2	.750 x 1.271	A27049-ND	5.25	46.16	35135
		1/2	1.250 x 1.896	A27050-ND	20.53	180.67	320763
		5/8	1.250 x 1.896	A27051-ND	20.53	180.67	320764
		1	1.250 x 1.896	A27052-ND	40.11	352.95	1-320765-0
	8	8	.406 x .949	A27053-ND	6.17	54.29	324061
		8	.469 x .933	A27054-ND	5.98	52.62	32996
		10	.469 x .933	A27055-ND	5.98	52.62	33460
		10	.406 x .949	A27057-ND	6.17	54.29	31807
		1/4	.469 x .933	A27059-ND	5.65	49.69	33461
		1/4	.594 x 1.168	A27061-ND	8.18	72.02	35247
		5/16	.594 x 1.168	A27062-ND	8.18	72.02	33462
		5/16	.562 x 1.074	A27063-ND	17.26	151.88	31808
		3/8	.594 x 1.168	A27064-ND	8.44	74.31	33463
		1/2	1.250 x 1.965	A27065-ND	23.64	208.07	35664
		5/8	1.250 x 1.965	A27066-ND	26.96	237.26	35665
	6	10	.406 x 1.181	A27067-ND	8.91	78.42	52197
		10	.625 x 1.246	A27069-ND	8.91	78.42	33464
		10	.468 x 1.168	A27070-ND	9.20	80.92	321298
		1/4	.625 x 1.246	A27071-ND	6.17	54.29	33465
		1/4	.468 x 1.168	A27073-ND	8.42	74.06	321598
		5/16	.625 x 1.246	A27074-ND	8.42	74.06	33466
		1/2	.875 x 1.840	A27077-ND	15.98	140.64	320344
		1/2	1.250 x 2.033	A27078-ND	31.91	280.84	36808
		5/8	1.250 x 2.033	A27079-ND	17.04	149.93	36809
		3/4	1.250 x 2.033	A27080-ND	25.72	226.37	36810
	4	10	.656 x 1.314	A27081-ND	12.73	112.02	33468
		10	.500 x 1.199	A27082-ND	13.13	115.58	33114
		1/4	.656 x 1.314	A27083-ND	11.65	102.54	33469
1	4	1/4	.500 x 1.199	A27084-ND	13.13	115.58	31811
		5/16	.656 x 1.314	A27085-ND	11.65	102.54	33470
		5/16	.565 x 1.324	A27086-ND	17.65	155.32	33115
		3/8	.656 x 1.314	A27087-ND	12.73	112.02	33471
		3/8	.656 x 1.324	A27088-ND	17.59	154.75	31812
		1/2	1.250 x 2.090	A27089-ND	20.45	179.94	35668
		1/2	.875 x 1.902	A27090-ND	21.10	185.67	327175
		5/8	1.250 x 2.090	A27091-ND	20.45	179.94	35669
		3/4	1.250 x 2.090	A27092-ND	37.16	326.99	35670
	2	1/4	.890 x 1.657	A27095-ND	18.84	165.81	320138
		5/16	.890 x 1.657	A27096-ND	29.40	258.74	35183
		3/8	.890 x 1.657	A27099-ND	18.85	165.86	35184
		7/16	.890 x 1.657	A27100-ND	19.07	167.78	320741
		1/2	.890 x 1.657	A27101-ND	29.40	258.74	35185
		1/2	1.250 x 2.516	A27102-ND	87.59	770.80	323291
		5/8	1.250 x 2.516	A27103-ND	59.74	525.67	320754
2	2	10	.625 x 1.527	A27093-ND	22.82	200.82	330301
		1/4	.625 x 1.527	A27094-ND	19.32	170.02	320383
		5/16	.625 x 1.527	A27097-ND	17.47	153.72	322870
		3/8	.625 x 1.527	A27098-ND	19.58	172.29	321600
1	1/0	1/4	.875 x 1.956	A27104-ND	28.92	254.53	36915
		1/4	.807 x 1.925	A27105-ND	29.84	262.63	321866
		5/16	.875 x 1.956	A27106-ND	28.92	254.53	36916
		5/16	.807 x 1.925	A27107-ND	29.84	262.63	321867
		3/8	.875 x 1.956	A27108-ND	29.31	257.93	36917
		3/8	.807 x 1.925	A27109-ND	29.84	262.63	321868
		7/16	.875 x 1.956	A27110-ND	48.57	427.40	36918
		1/2	.875 x 1.956	A27111-ND	29.84	262.63	36919
		1/2	1.265 x 2.678	A27112-ND	58.03	510.65	322291
		5/8	1.265 x 2.678	A27113-ND	58.72	516.74	320744
		3/4	1.265 x 2.678	A27114-ND	58.72	516.74	320748
	2/0	1/4	.946 x 2.000	A27115-ND	36.54	321.56	36921
		5/16	.926 x 1.930	A27116-ND	37.70	331.78	321870
		5/16	.946 x 2.000	A27117-ND	36.54	321.56	36922
		3/8	.926 x 1.930	A27118-ND	37.70	331.78	321871
		3/8	.946 x 2.000	A27119-ND	36.54	321.56	36923
		1/2	.926 x 1.930	A27120-ND	37.70	331.78	321873
		1/2	.946 x 2.000	A27121-ND	36.54	321.56	36925
		5/8	1.270 x 2.671	A27122-ND	83.57	735.40	322224
	3/0	5/8	1.270 x 2.699	A27129-ND	95.06	836.57	322222
2	3/0	5/16	1.020 x 2.112	A27123-ND	67.00	589.64	321874
		3/8	1.020 x 2.112	A27124-ND	42.95	377.97	321875
		3/8	1.082 x 2.143	A27125-ND	44.40	390.73	36927
		7/16	1.020 x 2.112	A27126-ND	67.00	589.64	321876
		1/2	1.082 x 2.143	A27127-ND	69.26	609.52	36929
		1/2	1.020 x 2.112	A27128-ND	67.00	589.64	321877
1	4/0	5/8	1.275 x 2.732	A27136-ND	131.20	1154.52	322227
		3/4	1.275 x 2.732	A27137-ND	135.37	1191.27	322228
2	4/0	5/16	1.150 x 2.537	A27130-ND	66.90	588.68	321271
		3/8	1.150 x 2.206	A27131-ND	49.09	432.03	36932
		3/8	1.087 x 2.178	A27132-ND	51.58	453.90	321878
		1/2	1.087 x 2.178	A27133-ND	80.46	708.09	321880
		1/2	1.150 x 2.206	A27134-ND	45.82	403.24	36934
		5/8	1.150 x 2.206	A27135-ND	73.76	649.08	36935
	250-300 MCM	3/8	1.435 x 2.602	A27138-ND	134.60	1184.50	322252
		7/16	1.435 x 2.602	A27139-ND	134.60	1184.50	322253
		1/2	1.435 x 2.602	A27140-ND	134.60	1184.50	322254
	300-350 MCM	1/2	1.545 x 2.671	A27141-ND	136.81	1203.94	322259
		1/2	1.545 x 3.422	A28760-ND	213.69	1880.45	322764
	400 MCM	3/8	1.749 x 2.790	A27142-ND	110.83	975.28	322262
		1/2	1.749 x 2.790	A27143-ND	211.19	1858.49	322264
	500-600 MCM	3/8	2.015 x 3.187	A27144-ND	334.42	2942.87	322267
		1/2	2.015 x 3.187	A27145-ND	462.11	4066.55	322269
		1/2	2.015 x 4.176	A27146-ND	543.20	4780.20	322773

‡ Heavy Duty

Cut Tape and Tape and Reel Product

Fig.	AWG	Stud Size	Dim. Inch W x L	Digi-Key Part No.	Cut Tape Pricing		Tape & Reel†		AMP Part No.
					500	1,000	Qty.	Pricing	
1	22-16	4	.250 x .621	A28055CT-ND	—	176.08	5,000	140.86/M	2-323096-2
		6	.218 x .449	A0915CT-ND	—	158.85	5,000	127.08/M	2-34105-2
		6	.281 x .574	A27006CT-ND	—	133.43	5,000	106.74/M	2-34107-2
		10	.312 x .621	A27012CT-ND	—	137.65	5,000	110.12/M	2-34112-2
		1/4	.469 x .856	A0918CT-ND	—	152.33	5,000	121.86/M	2-34113-2
	16-14	6	.250 x .480	A0921CT-ND	—	266.83	5,000	213.46/M	2-34120-1
		8	.343 x .636	A0922CT-ND	—	133.43	5,000	106.74/M	2-34122-1
		8	.312 x .590	A27025CT-ND	—	180.45	5,000	144.36/M	2-324955-1
		10	.343 x .723	A27155CT-ND	275.47	500.85	2,500	400.68/M	2-34567-1
		10	.343 x .636	A0923CT-ND	—	133.43	5,000	106.74/M	2-34123-1
	12-10	10	.375 x .765	A0928CT-ND	116.60	212.00	2,500	169.60/M	2-33457-2
		10	.500 x .865	A27043CT-ND	292.06	531.03	2,500	424.82/M	2-35771-1
		1/4	.531 x 1.004	A0929CT-ND	114.48	208.15	2,500	166.52/M	2-33458-3

† For Tape and Reel part number, change CT-ND to TR-ND.

Tools

A27223-ND	Crimp Tool for all Solistrand (except flag tongue terminals)	**$298.50**
A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9813-ND	Die Set for Uninsulated Terminals, use with A9996	**$94.50**
A9812-ND	Crimp Tool, Uninsulated Terminals with Die Set	**$118.50**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$40.68**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$90.90**

Solistrand Terminals and Splices

SOLISTRAND terminals and splices are specially designed to terminate solid and stranded wire. The barrel is completely closed and the seam is brazed for uniform metal strength around the entire barrel area.

Temperature Rating: 170°C maximum **Material:** • Terminal Body: copper per ASTM B-152 • Plating: Tin per MIL-T-10727 UL Listed. CSA Certified. Military Approval.

Uninsulated Ring Tongue and Splices: Temperature Rating: 343°C **Material:** • Terminal and Splice Body: Copper per QQ-C-576 • Plating: Nickel per QQ-N-290 • Metallic Sleeve: Nickel/Silver per QQ-C-585

Parallel Splices: Material: • Splice Body: Copper per ASTMB-152

Fig. 1
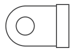

Fig. 2
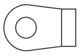

Fig. 3
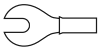

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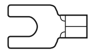

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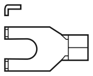

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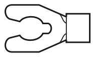

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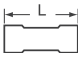

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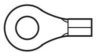

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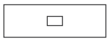

Fig. 10
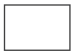
Parallel Splice

Fig. 11
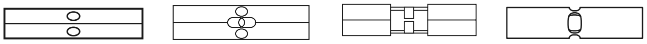
A – Standard
B – Sight Hole
C – Strap
D

Flag Ring Tongue Terminals

Fig.	AWG	Stud Size	Dimension - Inch W x L	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
1	16-14	8	.312 x .579	A28056-ND	.79	.69	325069
		10		A27177-ND	.70	.62	322819
	12-10	6	.375 x .702	A28057-ND	.96	.84	36269
		8		A27178-ND	.99	.87	36270
		10		A27179-ND	.70	.62	36271
		1/4		A28058-ND	.95	.83	36272
2	8	10	.500 x .791	A28059-ND	3.84	3.38	321051
		10	.500 x .918	A28060-ND	3.47	3.05	321441
		1/4	.609 x 1.130	A28061-ND	4.12	3.62	322727
1	6	10	.500 x .841	A27180-ND	2.87	2.53	323196
		1/4	.500 x .960	A27181-ND	5.08	4.47	321576
2		3/8	.625 x 1.200	A27182-ND	5.66	4.98	322204
1	4	10	.546 x 1.048	A27183-ND	3.35	2.94	321059
		1/4	.546 x 1.048	A27184-ND	3.35	2.94	321275
2		5/16	.685 x 1.278	A27185-ND	3.17	2.79	321060
2	2	10	.713 x 1.437	A27186-ND	3.73	3.28	321063
		1/4		A27187-ND	6.39	5.63	321201
		5/16		A27188-ND	3.20	2.82	321064

Slotted Ring Tongue

Fig.	AWG	Stud Size	Dimension - Inch W x L	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
3	22-16	4	.182 x .425	A28614-ND	.28	.25	321288

Spade Terminals

Fig.	Stud Size	Dimensions - Inch W x L	Digi-Key Part No.	Pricing		AMP Part No.
				10	100	
22-16 AWG						
4	2	.182 x .504	A0932-ND	2.63	23.14	53555-1
	4	.218 x .451	A09000-ND	3.11	27.41	321463
	6	.297 x .530	A09001-ND[1]	1.66	14.59	36195
	6	.250 x .623	A0933-ND[2]	1.64	14.41	323127
	8	.375 x .685	A0934-ND	5.64	49.63	34117
	10	.375 x .685	A0935-ND	1.66	14.59	34118
5	2	.182 x .504	A0939-ND	6.20	54.59	324605
	6	.296 x .514	A0940-ND[2]	6.20	54.59	320749
	6	.250 x .514	A09006-ND[1]	6.20	54.59	323136
	8	.296 x .514	A0941-ND[1]	6.20	54.59	52730
	8	.416 x .607	A09007-ND[2]	1.99	17.50	323124
6	4	.203 x .576	A0943-ND	2.15	18.95	53175-1
	8	.244 x .637	A09005-ND	7.33	64.47	53831-1
16-14 AWG						
4	6	.297 x .530	A09002-ND	1.66	14.59	322996
	6	.244 x .623	A27163-ND	10.95	96.35	330827
	8	.385 x .685	A09003-ND	4.22	37.15	34128
	10	.385 x .764	A27164-ND	2.19	19.26	33219
	10	.385 x .685	A09004-ND	5.64	49.63	34129
5	6	.294 x .514	A09008-ND	6.20	54.59	320855
	8		A0942-ND	1.80	15.84	320856
	10		A09009-ND	3.52	30.96	320857
6	8	.375 x .637	A0946-ND	2.15	18.95	53124-1
12-10 AWG						
4	6	.282 x .631	A0936-ND	3.30	29.07	322451
	8	.406 x .772	A0937-ND	4.30	37.80	32995
	10	.406 x .772	A27165-ND	2.38	20.92	33479
	10	.375 x .772	A0938-ND	11.35	99.91	35495
6	6	.250 x .636	A0948-ND	2.98	26.26	53126-1
	8	.375 x .729	A0949-ND	9.46	83.22	53127-1
Flanged Spade Tongue						
12-10 AWG						
5	6	.296 x .694	A28062-ND	3.45	30.36	324578
	8	.416 x .694	A27175-ND	6.33	55.66	323143
	10	.416 x .694	A28063-ND	3.45	30.36	323144

[1]Short; [2] Long

Short Spring Spade Tongue

Fig.	Stud Size	Dim. Inch W x L	Digi-Key Part No.	Price Each		Digi-Key Part No.	Cut Tape Pricing		Tape & Reel†	
				10	100		500	1,000	Size	Pricing
22-16 AWG										
6	6	.250 x .576	A0944-ND	.79	.70	A0944CT-ND	—	166.83	5,000	133.46/M
16-14 AWG										
6	6	.250 x .576	A0945-ND	.22	.19	A0945CT-ND	—	166.83	5,000	133.46/M
	10	.406 x .685	A0947-ND	.22	.19	A0947CT-ND	—	166.83	5,000	133.46/M
12-10 AWG										
6	8	.312 x .729	A27170-ND	.30	.27	—	—	—	—	—
	10	.406 x .777	A0950-ND	.30	.27	A0950CT-ND	123.92	225.30	2,500	180.24/M
	10	.312 x .777	A28064-ND	.30	.27	A28064CT-ND	123.92	225.30	2,500	180.24/M

† For Tape and Reel part number, change CT-ND to TR-ND.

Parallel Splices

Fig.	Wire Size	Dimension - Inch Length	Digi-Key Part No.	Pricing		AMP Part No.
				10	100	
7	22-16 AWG	.301	A27193-ND	1.35	11.85	34130
	16-14 AWG	.301	A27194-ND	1.35	11.85	34137
	12-10 AWG	.343	A27195-ND	1.71	15.08	34138
	8 AWG	.375	A27196-ND	3.37	29.65	34318
	6 AWG	.437	A27197-ND	5.74	50.49	34319
	4 AWG	.531	A27198-ND	8.89	78.26	34320
	2 AWG	.640	A27199-ND	12.43	109.35	35187
	1/0 AWG	.734	A27200-ND	18.47	162.53	36946
	2/0 AWG	.734	A27201-ND	19.38	170.51	36948
	3/0 AWG	.749	A27202-ND	24.77	218.00	36909
	4/0 AWG	.765	A27203-ND	28.96	254.85	36951
	250-300 MCM	1.062	A27204-ND	72.51	638.08	322275
	300-350 MCM	1.124	A27205-ND	74.05	651.62	322276
	400 MCM	1.249	A27206-ND	97.90	861.48	322277
	500-600 MCM	1.421	A27566-ND	140.88	1239.72	322278

Uninsulated Ring Tongue

Fig.	AWG	Stud Size	Dimension - Inch W x L	Insulation Support For	Digi-Key Part No.	Price Each		AMP Part No.
						10	100	
8	22-16	4	.218 x .603	.105 ~ .140	A27403-ND	1.07	.94	322363
		6	.281 x .728	.105 ~ .140	A27404-ND	1.65	1.45	323199
		6	.282 x .574	Non-Insulation	A28053-ND	.43	.38	323219
		6	.218 x .449	Non-Insulation	A27405-ND	.46	.41	322797
		8	.281 x .574	Non-Insulation	A27406-ND	.46	.41	322798
		10	.281 x .728	.105 ~ .140	A27407-ND	1.07	.94	322366
		10	.281 x .574	Non-Insulation	A27408-ND	.46	.41	322799
	16-14	10	.343 x .800	.140 ~ .195	A27409-ND	1.73	1.53	322375
			.343 x .636	Non-Insulation	A27410-ND	.53	.47	322695
	12-10	8	.375 x .760	Non-Insulation	A27411-ND	.79	.69	323061
		10	.375 x 1.007	.150 ~ .250	A27412-ND	2.06	1.82	325154
		10	.375 x .760	Non-Insulation	A27413-ND	.79	.69	323062
		1/4	.531 x 1.004	Non-Insulation	A27414-ND	1.00	.88	323063

Uninsulated Splices

Fig.	AWG	Length Inch	Digi-Key Part No.	Price Each		AMP Part No.
				10	100	
9	22-16	.578	A27487-ND	.61	.54	323796
10		.301	A27488-ND	.45	.40	323030
9	16-14	.572	A27489-ND	.61	.54	323795
10		.301	A27490-ND	.45	.40	323794
9	12-10	.567	A28054-ND	.90	.79	323755
10		.333	A27491-ND	.54	.48	323754
10		.333	A29335-ND*	1.20	1.06	323672
10	16-14	.301	A29336-ND*	1.02	.90	322347

Butt Splices

Fig.	Wire Size	Length Inch	Digi-Key Part No.	Pricing		AMP Part No.
				10	100	
11C	10-22 AWG	.385	A09010-ND	2.04	17.91	321198
	24-20 AWG	.490	A09011-ND	2.67	23.51	324001
11A	22-16 AWG	.578	A0951-ND	2.06	18.15	31818
11B			A09012-ND	3.19	28.11	330367
11A	16-14 AWG	.567	A0952-ND	2.24	19.71	31819
11B		.567	A09014-ND	3.53	31.04	330368
11C		.591	A27207-ND	3.35	29.52	322459
11C		.591	A09013-ND	4.21	37.07	327025
11C		.529	A29337-ND*	12.92	113.70	323878
11B	14-12 AWG	.690	A27209-ND	3.93	34.61	321280
11A	12-10 AWG	.565	A0953-ND	2.98	26.24	32151
11B		.567	A09015-ND	10.77	94.76	330369
11C		.765	A27210-ND	5.10	44.91	324893
11C		.703	A29338-ND*	25.89	227.81	323698
11A	8 AWG	.827	A27211-ND	6.97	61.30	34321
11B			A27212-ND	7.41	65.22	36906
11A	6 AWG	1.015	A27213-ND	10.70	94.20	34322
11B			A27214-ND	15.28	134.49	36886
11A	4 AWG	1.140	A27215-ND	23.68	208.39	34323
11A	2 AWG	1.265	A27216-ND	37.64	331.22	35189
11B			A27217-ND	55.94	492.28	322246
11D	1/0 AWG	1.412	A27218-ND	50.18	441.60	36957
	2/0 AWG	1.437	A27219-ND	59.49	523.52	36958
	3/0 AWG	1.480	A27220-ND	70.85	623.52	36959
	4/0 AWG	1.484	A27221-ND	61.73	543.22	36960
	250-300 MCM	2.093	A27222-ND	141.96	1249.22	322279

* High Temperature

Tools

A27223-ND	Crimp Tool for all Solistrand (except Flag Tongue Terminals)	**$298.50**
A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9813-ND	Die Set for Solistrand Butt Splices 22-10 AWG, use with A9996-ND	**$94.50**
A9812-ND	Crimp Tool with Die for Solistrand Butt Splices 22-10 AWG	**$118.50**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$40.68**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$90.90**

Machine Applied Terminations

Fig. 1
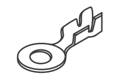

Fig. 2
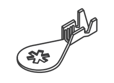

Fig. 3
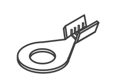

Fig. 4
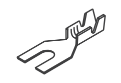

Fig. 5
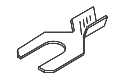

Fig. 6
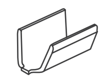

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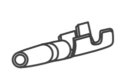

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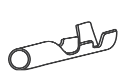

Fig. 9
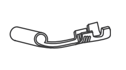

Fig. 10
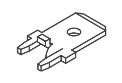

Fig.	Stud Size	Wire AWG	Insulation Diameter (Inch)	Material/Finish	Digi-Key Part No.	Cut Tape Pricing 100	500	1000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
							Ring, Insulation Support					
1	#6	22-18	0.06-0.11	Brass/Tin	A29864CT-ND	8.89	40.73	74.05	A29864TR-ND	20,000	39.99/M	40697
	#8	22-18	0.06-0.11	Brass/Tin	A29865CT-ND	11.25	51.55	93.73	A29865TR-ND	10,000	50.62/M	40698
	#8	18-14	0.1-0.14	Brass/Tin	A29866CT-ND	10.59	48.54	88.25	A29866TR-ND	11,000	47.66/M	40724
	#10	18-14	0.1-0.14	Brass/Tin	A29867CT-ND	11.71	53.68	97.60	A29867TR-ND	11,000	52.71/M	40725
	5/16	22-18	.07-.11	Brass/Tin	A29868CT-ND	19.65	90.08	163.78	A29868TR-ND	10,000	131.02/M	41013
	#10	12-10	0.15-0.21	Brass/Tin	A29869CT-ND	23.22	106.43	193.50	A29869TR-ND	3,000	154.80/M	41124
	#8	18-14	0.12-0.17	Brass/Tin	A29870CT-ND	9.77	44.77	81.40	A29870TR-ND	12,500	43.96/M	41332
	#10	18-14	0.12-0.17	Brass/Tin	A29871CT-ND	8.45	38.75	70.45	A29871TR-ND	12,500	38.05/M	41333
	.156	20-16	0.1-0.135	Brass/Tin	A29872CT-ND	9.54	43.73	79.50	A29872TR-ND	25,000	42.93/M	41472
	#6	24-20	0.08-0.1	Brass/Tin	A29873CT-ND	7.81	35.81	65.10	A29873TR-ND	7,500	39.06/M	41580
	#8	24-20	0.08-0.1	Brass/Tin	A29874CT-ND	8.76	40.15	73.00	A29874TR-ND	15,000	43.80/M	41581
	1/4	22-18	0.07-0.1	Brass/Tin	A29875CT-ND	15.72	72.04	130.98	A29875TR-ND	6,000	78.59/M	41711
	#10	22-18	0.08-0.11	Brass	A29876CT-ND	10.79	49.45	89.90	A29876TR-ND	20,000	48.55/M	42036-2
	#6	22-18	0.08-0.11	Brass/Tin	A29877CT-ND	8.89	40.73	74.05	A29877TR-ND	20,000	39.99/M	42037
	#8	22-18	0.08-0.11	Brass/Tin	A29878CT-ND	7.59	34.80	63.28	A29878TR-ND	20,000	34.17/M	42037-1
	#10	22-18	0.08-0.11	Brass/Tin	A29879CT-ND	7.59	34.80	63.28	A29879TR-ND	20,000	34.17/M	42037-2
	#8	24-20	0.048-0.078	Brass/Tin	A29880CT-ND	9.87	45.22	82.23	A29880TR-ND	20,000	44.41/M	42508-2
	#4	26-22	0.04-0.06	Brass/Tin	A29881CT-ND	6.86	31.45	57.18	A29881TR-ND	20,000	30.88/M	42547-2
	.257	16-14	0.12-0.18	Brass	A29882CT-ND	31.68	145.21	264.03	A29882TR-ND	4,000	158.42/M	42751-1
	.323	16-14	0.12-0.18	Brass/Tin	A29883CT-ND	18.72	85.79	155.98	A29883TR-ND	4,000	93.59/M	42752-2
	.142	26-20	0.048-0.078	Brass/Tin	A29884CT-ND	8.06	36.95	67.18	A29884TR-ND	12,000	36.28/M	60123-2
	#10	18-14	0.1-0.14	Brass/Tin	A29885CT-ND	14.73	67.50	122.73	A29885TR-ND	11,000	66.28/M	60433-2
	#6	24-20	0.048-0.078	Brass/Tin	A29886CT-ND	9.34	42.79	77.80	A29886TR-ND	20,000	42.02/M	60553-1
	1/4	18-14	0.1-0.14	Brass/Tin	A29887CT-ND	10.90	49.95	90.83	A29887TR-ND	11,000	49.05/M	60625-1
	#6	18-14	0.1-0.14	Brass/Tin	A29888CT-ND	8.36	38.34	69.70	A29888TR-ND	12,000	41.82/M	60770-2
	.#8	18-14	0.1-0.14	Brass	A29889CT-ND	6.17	28.27	51.40	A29889TR-ND	6,000	30.84/M	60771-1
	#8	18-14	0.1-0.14	Brass/Tin	A29890CT-ND	6.69	30.65	55.73	A29890TR-ND	12,000	30.10/M	60771-2
	#10	18-14	0.1-0.14	Brass/Tin	A29891CT-ND	5.51	25.26	45.93	A29891TR-ND	12,000	24.80/M	60772-2
	#10	18-14	0.1-0.14	Brass/Tin	A29892CT-ND	5.39	24.68	44.88	A29892TR-ND	8,000	26.93/M	60772-3
	3/8	16-14	0.12-0.18	Brass/Tin	A29893CT-ND	41.48	190.11	345.65	A29893TR-ND	2,500	276.52/M	61336-1
	#4	20-16	0.1-0.135	Brass/Tin	A29894CT-ND	9.54	43.73	79.50	A29894TR-ND	25,000	42.93/M	61386-1
	.094	26-24	0.035-0.065	Brass	A29895CT-ND	2.55	11.69	21.25	A29895TR-ND	50,000	10.63/M	61653-1
	1/4	18-14	0.085-0.12	Brass/Tin	A29897CT-ND	18.74	85.87	156.13	A29897TR-ND	3,000	124.90/M	485029-1
2	.177	22-16	0.105	Brass	A29896CT-ND	13.63	62.48	113.60	A29896TR-ND	6,000	68.16/M	350509-1
	.181	22-16	0.1-0.14	Steel/Tin	A29898CT-ND	12.28	56.27	102.30	A29898TR-ND	5,000	81.84/M	61556-1
	#8	16-12	0.13-0.17	Brass	A29899CT-ND	8.11	37.18	67.60	A29899TR-ND	9,000	40.56/M	61624-1
	#6	18-14	0.105-0.145	Steel/Tin	A29900CT-ND	6.74	30.90	56.18	A29900TR-ND	9,000	33.71/M	61793-1
	#8	18-14	0.105-0.145	Steel/Tin	A29901CT-ND	5.84	26.77	48.68	A29901TR-ND	9,000	29.21/M	61794-1
	#8	18-14	0.105-0.145	Brass	A29902CT-ND	8.88	40.69	73.98	A29902TR-ND	9,000	44.39/M	61794-4
	#10	18-14	0.105-0.145	Steel/Tin	A29903CT-ND	5.84	26.77	48.68	A29903TR-ND	9,000	29.21/M	61795-1
	#10	18-14	0.105-0.145	Brass/Tin	A29904CT-ND	8.40	38.51	70.03	A29904TR-ND	9,000	42.02/M	61795-3
	#10	12-10	0.125-0.22	Steel/Tin	A29905CT-ND	13.88	63.59	115.63	A29905TR-ND	1,800	92.50/M	62613-2
	#8	18-14	0.105-0.145	Steel	A29906CT-ND	9.15	41.95	76.28	A29906TR-ND	6,000	45.77/M	640051-1
	#10	18-14	0.105-0.145	Steel	A29907CT-ND	8.07	37.00	67.28	A29907TR-ND	6,000	40.37/M	640052-1
	#8	22-18	0.08-0.12	Steel/Tin	A29908CT-ND	7.46	34.21	62.20	A29908TR-ND	9,000	37.32/M	640204-1
	#10	22-18	0.08-0.12	Tin	A31703CT-ND	6.99	32.05	58.28	A31703TR-ND	15,000	31.47/M	640271-3
							Ring, Non-Insulation Support					
3	#8	18-14	—	Brass	A29910CT-ND	6.87	31.50	57.28	A29910TR-ND	20,000	30.93/M	34812
	#10	12-10	—	Brass/Tin	A29911CT-ND	15.30	70.14	127.53	A29911TR-ND	8,000	76.52/M	40524
	.096	22-20	0.05-0.065	Brass/Tin	A29912CT-ND	7.28	33.39	60.70	A29912TR-ND	25,000	32.78/M	41376
							Fork, Insulation Support					
4	#6	20-16	0.09-0.13	Brass/Tin	A29913CT-ND	9.94	45.54	82.80	A29913TR-ND	15,000	44.72/M	40763
	#10	24-20	0.08-0.1	Brass/Tin	A29914CT-ND	11.09	50.82	92.40	A29914TR-ND	15,000	49.90/M	41590
	#6	24-20	0.048-0.078	Brass/Tin	A29915CT-ND	8.06	36.95	67.18	A29915TR-ND	25,000	36.28/M	60445-2
	#10	24-20	0.048-0.078	Brass/Tin	A29916CT-ND	8.26	37.84	68.80	A29916TR-ND	20,000	37.16/M	60501-1
	#6	18-14	0.13-0.18	Brass/Tin	A29917CT-ND	12.24	56.09	101.98	A29917TR-ND	12,000	55.07/M	60725-1
	#10	18-14	0.1-0.14	Brass	A29919CT-ND	7.56	34.66	63.03	A29919TR-ND	6,000	37.82/M	60775-1
							Fork, Non-Insulation Support					
5	#8	12-10	—	Brass/Tin	A29920CT-ND	17.95	82.28	149.60	A29920TR-ND	8,000	89.76/M	42113-2
	#5	20-18	0.065-0.08	Brass/Tin	A29921CT-ND	10.10	46.31	84.20	A29921TR-ND	20,000	45.47/M	42339-2
	#5	28-22	0.035-0.04	Brass	A29922CT-ND	4.39	20.13	36.60	A29922TR-ND	28,000	19.77/M	61498-1
	#5	28-22	0.035-0.04	Brass/Tin	A29923CT-ND	5.57	25.53	46.43	A29923TR-ND	28,000	25.07/M	61498-2

Splices Non-Insulation

Fig.	Wire Range Min./Max. (mm2)	Stock Thickness (Inch)	Wire Size (CMA)	Material	Length (Inch)	Digi-Key Part No.	Cut Tape Pricing 100	500	1000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
6	1.64/4.2	.020	3232-8282	Brass	.152	A29924CT-ND	5.42	24.83	45.15	A29924TR-ND	20,000	24.39/M	40509
	1.52/4.28	.020	4000-9000	Brass	.255	A29925CT-ND	5.92	27.12	49.30	A29925TR-ND	2,500	39.44/M	485043-1
	.61/1.32	.020	1200-2600	Brass	.188	A29926CT-ND	4.53	20.76	37.75	A29926TR-ND	12,000	20.39/M	60372-1
	2.03/5.07	.025	4000-10000	Brass	.250	A29928CT-ND	6.95	31.86	57.93	A29928TR-ND	12,500	31.28/M	62357-1
	.20/.81	.016	400-1600	Brass	.110	A29929CT-ND	5.46	25.01	45.48	A29929TR-ND	20,000	24.56/M	62759-1

Shur-Plug Terminals and Receptacles

Fig.	Mating Angle	Wire AWG	Stock Thick. (Inch)	Insulation Size Min./Max.	Material/ Finish	Mating Diameter (Inch)	Digi-Key Part No.	Cut Tape Pricing 100	500	1000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
							Terminals							
7	Straight	18-14	.018	.120/.175	Brass/Tin	.180	A29930CT-ND	8.24	37.76	68.65	A29930TR-ND	6,000	41.19/M	60660-1
	Straight	18-14	.018	.085/.125	Brass/Tin	.156	A29931CT-ND	15.62	71.57	130.13	A29931TR-ND	7,000	78.08/M	60766-2
	Straight	14-10	.018	N/A	Brass/Tin	.180	A29939CT-ND	11.57	53.01	96.38	A29939TR-ND	4,000	57.83/M	42865-3
							Receptacles							
8	Straight	18-14	.016	.130/.175	Brass/Tin	.156	A29932CT-ND	10.28	47.11	85.65	A29932TR-ND	6,000	51.39/M	42142-1
	Straight	18-14	.016	.130/.175	Brass	.156	A29933CT-ND	14.67	67.24	122.25	A29933TR-ND	6,000	73.35/M	42142-2
9	Rt. Angle	20-16	.016	.100/.140	Brass	.156	A29934CT-ND	20.76	95.14	172.98	A29934TR-ND	2,500	138.38/M	60017-3

PCB Faston Tabs

Fig.	Mating Angle	Tab Width (Inch)	Mating Tab Thickness (Inch)	Material/ Finish	Digi-Key Part No.	Cut Tape Pricing 100	500	1000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
10	Straight	.187	.020	Brass/Tin	A29937CT-ND	6.46	29.62	53.85	A29937TR-ND	16,000	29.08/M	63823-1
	Straight	.250	.032	Brass/Tin	A29938CT-ND	5.81	26.62	48.40	A29938TR-ND	10,000	26.14/M	63824-1

Amphenol® Industrial

RADSOK® Technology

Fig. 1

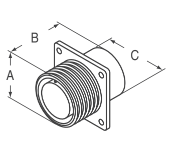

Fig. 2

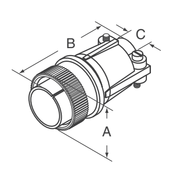

Fig. 3

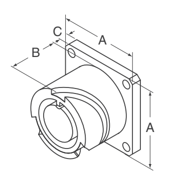

Fig. 4

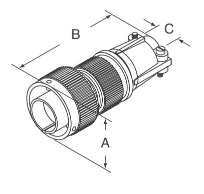

Fig. 5

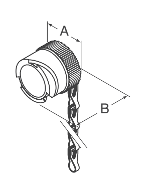

Fig. 6

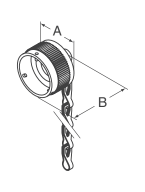

Fig. 7

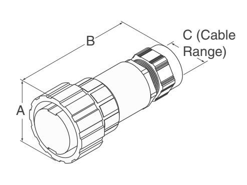

Contact Legend

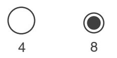

Insert Patterns
(Front face of pin insert shown. Drawings not to scale.)

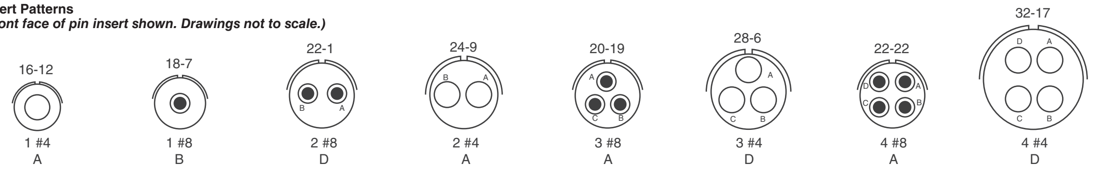

RADSOK Advantages: • Low contact resistance • Low milli-volt drop performance • Higher current capacity with minimized temperature rise • Reliability under vibration and shock • Contacts will handle up to 150% higher amperages than standard contacts • Contacts are stocked in size 8 (69 amps) and size 4 (120 amps). Also available in size 12 (35 amps), size 0 (250 amps) and sizes 2/0 - 4/0 (500 amps) **AC Series with RADSOK:** • Single key/keyway shell polarization • Threaded coupling • Machined contacts • Operating Temperature Range: -55°C ~ 125°C • Black zinc alloy finish **GT Series with RADSOK** • Audible, tactile and visual indication of full coupling • Waterproof - IP67 rated • Operating Temperature Range: -55°C ~ 125°C • UL recognized • Black zinc cobalt finish **Amphe®-GTR Reverse Bayonet Series** • Compression (setscrew) wire termination • UL/CUL 1977/1682/817 recognized • Quick positive coupling • Audible, tactile and visual indication of full coupling • Waterproof - IP67 rated • Operating Temperature Range: -55°C ~ 125°C

Fig.	Shell Size Insert Arrange-ment No.	No. of Con-tacts/ Size	Description	Dimensions Inches			Digi-Key Part No.	Price Each	
				A	B	C		1	10
AC (5015) Series with RADSOK									
1	18-7	1/8	Receptacle	1.062	1.582	1.000	ACC02E18-7P(025)-ND	19.55	12.52
1	22-1	2/8	Receptacle	1.250	1.582	1.250	ACC02E22-1P(025)-ND	23.96	16.78
1	20-19	3/8	Receptacle	1.156	1.582	1.125	ACC02E20-19P(025)-ND	29.40	20.58
2	18-7	1/8	Plug	1.333	2.596	0.625	ACC06E18-7R(025)-ND	38.06	26.65
2	22-1	2/8	Plug	1.588	2.654	0.750	ACC06E22-1R(025)-ND	35.88	29.44
2	20-19	3/8	Plug	1.461	2.654	0.750	ACC06E20-19R(025)-ND	38.38	31.49
1	16-12	1/4	Receptacle	0.969	1.582	0.875	ACC02E16-12P(025)-ND	16.49	10.56
1	24-9	2/4	Receptacle	1.375	1.581	1.375	ACC02E24-9P(025)-ND	21.46	15.03
1	28-6	3/4	Receptacle	1.562	1.581	1.625	ACC02E28-6P(025)-ND	28.86	20.21
2	16-12	1/4	Plug	1.250	2.524	0.531	ACC06E16-12R(025)-ND	40.87	33.54
2	24-9	2/4	Plug	1.715	2.885	0.938	ACC06E24-9R(025)-ND	55.17	45.63
2	28-6	3/4	Plug	1.968	2.885	0.938	ACC06E28-6R(025)-ND	71.39	59.49
1	22-22	4/8	Receptacle	1.250	1.582	0.750	ACC02E22-22P(025)-ND	34.59	28.39
1	32-17	4/4	Receptacle	1.750	1.581	1.875	ACC02E32-17P(025)-ND	36.39	29.86
2	22-22	4/8	Plug	1.588	2.654	0.750	ACC06E22-22R(025)-ND	56.67	46.87
2	32-17	4/4	Plug	2.209	2.943	1.250	ACC06E32-17R(025)-ND	91.81	78.69
GT Series with RADSOK									
3	18-7	1/8	Receptacle	1.378	0.907	0.157	GTC03018-7P(025)-ND	24.46	17.13
3	22-1	2/8	Receptacle	1.614	0.907	0.157	GTC03022-1P(025)-ND	30.90	25.19
3	20-19	3/8	Receptacle	1.496	0.907	0.157	GTC03020-19P(025)-ND	34.85	28.60
4	18-7	1/8	Plug	1.437	4.921	0.562	GTC06F18-7S(RDS)(025)-ND	58.72	48.93
4	22-1	2/8	Plug	1.697	4.921	0.625	GTC06F22-1S(RDS)(025)-ND	75.58	62.99
4	20-19	3/8	Plug	1.571	4.921	0.625	GTC06F20-19S(RDS)(025)-ND	72.09	60.08
3	16-12	1/4	Receptacle	1.280	0.846	0.126	GTC03016-12P(025)-ND	43.07	35.14
3	24-9	2/4	Receptacle	1.752	0.907	0.157	GTC03024-9P(025)-ND	27.48	22.40
3	28-6	3/4	Receptacle	2.000	0.947	0.157	GTC03028-6P(025)-ND	32.88	26.98
4	16-12	1/4	Plug	1.260	4.921	0.437	GTC06F16-12S(RDS)(025)-ND	64.24	53.54
4	24-9	2/4	Plug	1.835	4.921	0.750	GTC06F24-9S(RDS)(025)-ND	106.26	89.06
4	28-6	3/4	Plug	2.102	4.921	0.750	GTC06F28-6S(RDS)(025)-ND	125.49	105.19
3	22-22	4/8	Receptacle	1.614	0.907	0.157	GTC03022-22P(025)-ND	40.79	33.48
3	32-17	4/4	Receptacle	2.244	0.947	0.157	GTC03032-17P(025)-ND	38.30	31.43
4	22-22	4/8	Plug	1.697	4.921	0.625	GTC06F22-22S(RDS)(025)-ND	86.66	74.28
4	32-17	4/4	Plug	2.366	4.921	0.937	GTC06F32-17S(RDS)(025)-ND	158.57	136.95
5	16	—	Plug Cap	1.169	0.945	—	10-580903-16Y-ND	33.33	27.35
6	16	—	Recept. Cap	1.280	0.700	—	10-580902-16Y-ND	33.66	27.62
5	18	—	Plug Cap	1.303	0.945	—	10-580903-18Y-ND	26.80	21.85
6	18	—	Recept. Cap	1.457	0.900	—	10-580902-18Y-ND	31.96	26.23
5	20	—	Plug Cap	1.437	1.260	—	10-580903-20Y-ND	41.18	33.80
6	20	—	Recept. Cap	1.594	0.900	—	10-580902-20Y-ND	41.40	33.78
5	24	—	Plug Cap	1.701	1.260	—	10-580903-24Y-ND	40.93	33.59
6	24	—	Recept. Cap	1.850	0.900	—	10-580902-24Y-ND	36.56	30.00
5	28	—	Plug Cap	1.929	1.260	—	10-580903-28Y-ND	39.27	32.23
6	28	—	Recept. Cap	2.126	0.900	—	10-580902-28Y-ND	40.19	32.98
5	32	—	Plug Cap	2.193	1.260	—	10-580903-32Y-ND	41.20	33.81
6	32	—	Recept. Cap	2.382	0.900	—	10-580902-32Y-ND	41.20	33.81
Amphe-GTR® Reverse Bayonet									
7	—	4/4	Plug	2.626	4.829	0.582	GT06PCM32-ARS-30(29R)-ND	125.58	107.12
7	—	4/4	Plug	2.626	4.829	0.759	GT06PCM32-ARS-40(29R)-ND	125.58	107.12
7	—	4/4	Plug	2.626	4.829	0.905	GT06PCM32-ARS-50(29)-ND	125.58	107.12
7	—	4/4	Plug	2.626	4.829	1.185	GT06PCM32-ARS-70(29OS)-ND	125.58	107.12
3	—	4/4	Receptacle	2.248	0.947	0.158	GT030PCM32-ARP-80-ND	51.32	42.45
7	—	5/4	Plug	2.626	4.829	0.787	10-610142-001-ND	134.84	113.04
7	—	5/4	Plug	2.626	4.829	0.984	10-610142-002-ND	134.84	113.04
7	—	5/4	Plug	2.626	4.829	0.797	10-610142-003-ND	134.84	113.04
7	—	5/4	Plug	2.626	4.829	0.797	10-610142-004-ND	134.84	113.04
3	—	5/4	Receptacle	2.248	0.947	0.158	10-610147-001-ND	92.78	77.77
3	—	5/4	Receptacle	2.248	0.947	0.158	10-610147-002-ND	92.78	77.77
3	—	5/4	Receptacle	2.248	0.947	0.158	10-610222-001-ND	92.78	77.77
3	—	5/4	Receptacle	2.248	0.947	0.158	10-610222-002-ND	92.78	77.77

RADSOK® Amphe-PD™

Features: • 6 AWG • UL Listed 69A • 94V-0 Flame Retardant • Positive Locking • Tool-less Assembly
Target Applications: • Battery Connection • Busbar Connection • Power Supply Connection

Fig. 1

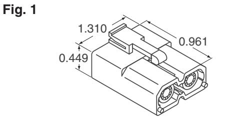

Fig. 2

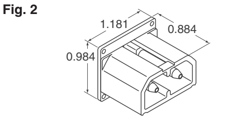

Fig.	No. of Contacts/ Size	Description	Type	Digi-Key Part No.	Price Each			
					1	10	50	100
1	2	Plug	Crimp	C10-638974-000-ND	15.25	10.68	7.93	7.78
2	2	Receptacle	Busbar	C10-638975-000-ND	14.93	10.45	7.77	7.62
2	2	Receptacle	Crimp	C10-638976-000-ND	14.95	10.47	7.78	7.63
2	2	Receptacle	PCB	C10-638977-000-ND	14.10	9.87	7.34	7.20

ASTRO TOOL CORP.
CONNECTOR ASSEMBLY TOOLING

Tools

Description	Digi-Key Part No.	Price Each	Astro Tool Corp. Part No.
Pneumatic Crimp Tool without Dies	AMT23B-ND	1250.20	AMT23B
Size 8 Die Set for use with AMT23B-ND	AMT23002DA-ND	261.61	AMT23002DA
Locator to use with AMT23002DA-ND	AMT23161L-ND	55.26	AMT23161L
Size 4 Die Set to use with AMT23B	AMT23004DA-ND	261.61	AMT23004DA
Locator to use with AMT23004DA-ND	AMT23163L-ND	55.26	AMT23163L
Extraction Tool for #8 Contact Metal	ATC2281-ND	109.79	ATC2281
Extraction Tool for #4 Contact Metal	ATC2426-ND	106.33	ATC2426
Extraction Tool for #8 Contact Plastic	M81969/14-06-ND	6.12	M81969/14-06
Extraction Tool for #4 Contact Plastic	M81969/14-07-ND	6.12	M81969/14-07

Circular Bayonet Lock Connectors

Fig. 1

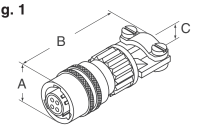

Fig. 2

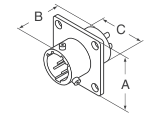

Fig. 3

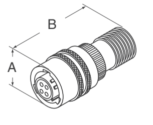

Fig. 4

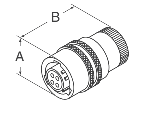

Fig. 5

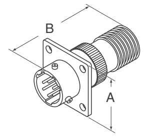

Fig. 6

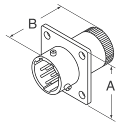

Fig. 7

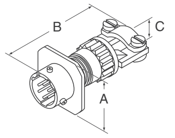

Fig. 8

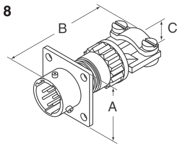

Fig. 9

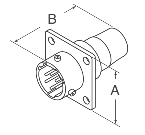

Fig. 10

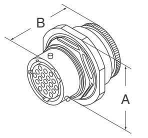

CONTACT LEGEND
● ○
16 20

Insert Patterns ***(Front face of pin insert shown)***
Drawings not to scale

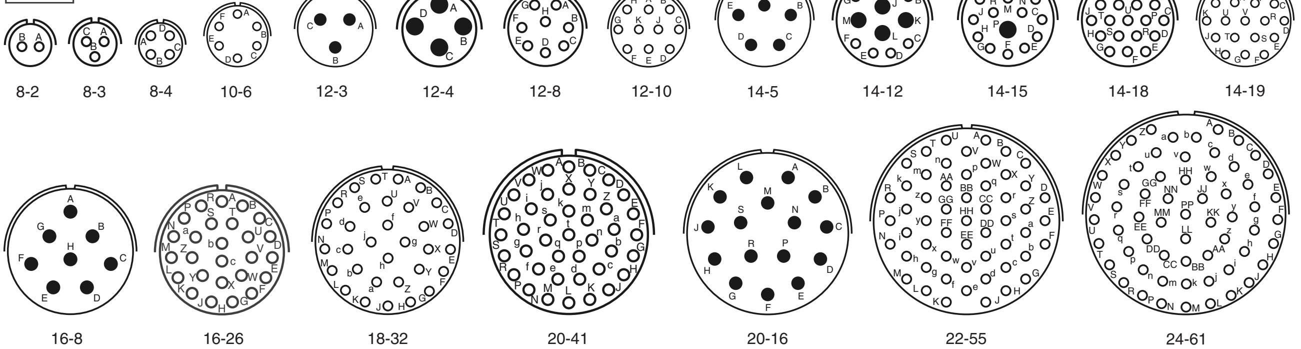

PT with Solder Contacts (MIL-C-26482 Series 1 Type)

Aluminum shell components: Standard olive drab, electrically conductive cadmium plated. Dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves. Insert and main joint gasket molded from resilient neoprene.

Solder contacts are installed. Pins and sockets are copper alloy/gold plated.

PT solder series is UL recognized under file #E115497, Section 5

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	10
1	8-2	2/20	Plug w/sockets	.750	1.906	.125	PT06A-8-2S(SR)-ND*	28.67	18.71
2			Recept. w/pins	.812	.825	.449	PT02A-8-2P-ND	13.15	9.21
1	8-3	3/20	Plug w/sockets	.750	1.906	.125	PT06A-8-3S(SR)-ND*	28.76	18.41
1			Plug w/sockets	.750	1.906	.125	PT06E-8-3S(SR)-ND*	30.60	19.59
2			Recept. w/pins	.812	.825	.449	PT02A-8-3P-ND	14.75	10.33
2			Recept. w/pins	.812	.825	.449	PT02E-8-3P-ND	13.80	8.28
3	8-4	4/20	Plug w/sockets	.750	1.609	—	PT06A-8-4S-ND	20.26	13.23
1			Plug w/pins	.750	1.906	.125	PT06E8-4P(SR)-ND*	20.10	14.07
1			Plug w/sockets	.750	1.906	.125	PT06E8-4S(SR)-ND*	29.86	19.11
1			Plug w/pins	.750	1.906	.125	PT06A-8-4P(SR)-ND*	26.86	17.54
1			Plug w/sockets	.750	1.906	.125	PT06A-8-4S(SR)-ND*	27.19	17.75
4			Plug w/sockets	.750	1.266	—	PT06E-8-4S-ND	21.92	14.31
2			Recept. w/pins	.812	.825	.449	PT02A8-4P-ND	13.86	8.32
2			Recept. w/sockets	.812	.825	.449	PT02A8-4S-ND	13.35	9.35
2			Recept. w/pins	.812	.825	.449	PT02E-8-4P-ND	13.45	9.42
2			Recept. w/sockets	.812	.825	.449	PT02E-8-4S-ND	13.05	7.83
1	10-6	6/20	Plug w/pins	.859	1.906	.188	PT06E10-6P(SR)-ND*	20.83	13.60
1			Plug w/sockets	.859	1.906	.188	PT06E10-6S(SR)-ND*	34.07	21.81
1			Plug w/pins	.859	1.906	.188	PT06A-10-6P(SR)-ND*	27.48	17.94
1			Plug w/sockets	.859	1.906	.188	PT06A-10-6S(SR)-ND*	31.66	20.27
2			Recept. w/pins	.938	.825	.573	PT02A10-6P-ND	13.53	9.47
2			Recept. w/sockets	.938	.825	.573	PT02A10-6S-ND	14.95	10.47
2			Recept. w/pins	.938	.825	.573	PT02E-10-6P-ND	15.63	10.94
2			Recept. w/sockets	.938	.825	.573	PT02E-10-6S-ND	17.70	12.39
5			Recept. w/pins	.938	1.553	—	PT00A-10-6P-ND	24.20	15.80
6			Recept. w/pins	.938	1.266	—	PT00E-10-6P-ND	27.46	17.92
7			Recept. w/pins	.938	1.922	.188	PT01A-10-6P(SR)-ND*	26.32	17.18
3	12-3	3/16	Plug w/sockets	1.013	1.609	—	PT06A-12-3S-ND	20.18	14.13
1			Plug w/pins	1.013	1.906	.312	PT06E12-3P(SR)-ND*	23.04	15.04
1			Plug w/sockets	1.013	1.906	.312	PT06E12-3S(SR)-ND*	24.42	15.94
1			Plug w/pins	1.013	1.906	.312	PT06A-12-3P(SR)-ND*	28.19	18.40
1			Plug w/sockets	1.013	1.906	.312	PT06A-12-3S(SR)-ND*	28.67	18.71
2			Recept. w/pins	1.031	.825	.699	PT02A12-3P-ND	12.63	7.58
2			Recept. w/sockets	1.031	.825	.699	PT02A12-3S-ND	19.63	13.74
2			Recept. w/pins	1.031	.825	.699	PT02E-12-3P-ND	14.19	8.52
1	12-4	4/16	Plug w/pins	1.013	1.906	.312	PT06A-12-4P(SR)-ND*	31.64	20.25
2			Recept. w/sockets	1.031	.825	.699	PT02E-12-4S-ND	21.28	13.89
3	12-8	8/20	Plug w/pins	1.013	1.609	—	PT06A-12-8P-ND	23.58	15.40
3			Plug w/sockets	1.013	1.609	—	PT06A-12-8S-ND	24.89	16.25
1			Plug w/pins	1.013	1.906	.312	PT06E-12-8P(SR)-ND*	29.48	18.87
1			Plug w/sockets	1.013	1.906	.312	PT06E-12-8S(SR)-ND*	35.91	22.99
2			Recept. w/pins	1.031	.825	.699	PT02E-12-8P-ND	14.98	10.49
1	12-10	10/20	Plug w/pins	1.013	1.906	.312	PT06E12-10P(SR)-ND*	25.48	16.64
1			Plug w/sockets	1.013	1.906	.312	PT06E12-10S(SR)-ND*	27.63	17.69
1			Plug w/pins	1.013	1.906	.312	PT06A-12-10P(SR)-ND*	19.95	13.02
1			Plug w/sockets	1.013	1.906	.312	PT06A-12-10S(SR)-ND*	25.37	16.56
2			Recept. w/pins	1.031	.825	.699	PT02A12-10P-ND	18.58	13.01
2			Recept. w/sockets	1.031	.825	.699	PT02A12-10S-ND	19.38	13.57
2			Recept. w/pins	1.031	.825	.699	PT02E-12-10P-ND	15.73	11.01
2			Recept. w/sockets	1.031	.825	.699	PT02E-12-10S-ND	15.13	10.59
1	14-5	5/16	Plug w/pins	1.156	1.906	.375	PT06E14-5P(SR)-ND*	31.21	19.98
1			Plug w/sockets	1.156	1.906	.375	PT06E14-5S(SR)-ND*	27.56	17.64
1			Plug w/sockets	1.156	1.906	.375	PT06A-14-5S(SR)-ND*	34.27	21.94
2			Recept. w/pins	1.125	.825	.823	PT02A14-5P-ND	16.88	11.82
2			Recept. w/sockets	1.125	.825	.823	PT02A14-5S-ND	24.04	15.69
2			Recept. w/pins	1.125	.825	.823	PT02E-14-5P-ND	13.78	9.65
1	14-12	8/20, 4/16	Plug w/pins	1.156	1.906	.375	PT06A-14-12P(SR)-ND*	24.27	15.85
1			Plug w/sockets	1.156	1.906	.375	PT06E-14-12S(SR)-ND*	27.76	18.12
2			Recept. w/pins	1.125	.825	.823	PT02E-14-12P-ND	14.23	9.96
2			Recept. w/sockets	1.125	.825	.823	PT02E-14-12S-ND	25.91	16.92
2			Recept. w/sockets	1.125	.825	.823	PT02A-14-12S-ND	23.49	15.33
3	14-15	14/20, 1/16	Plug w/pins	1.156	1.609	—	PT06A-14-15P-ND	22.30	17.53
3			Plug w/sockets	1.156	1.609	—	PT06A-14-15S-ND	26.50	21.60
2			Recept. w/sockets	1.125	.825	.823	PT02A-14-15S-ND	18.33	14.17
2			Recept. w/pins	1.125	.825	.823	PT02A-14-15P-ND	15.90	11.13
3	14-18	18/20	Plug w/pins	1.156	1.609	—	PT06A-14-18P-ND	22.16	14.47
1			Plug w/sockets	1.156	1.906	.375	PT06E-14-18S(SR)-ND*	33.37	21.36
2			Recept. w/pins	1.125	.825	.823	PT02A-14-18P-ND	21.08	14.76
2			Recept. w/sockets	1.125	.825	.823	PT02E-14-18S-ND	20.73	13.54
1	14-19	19/20	Plug w/pins	1.156	1.906	.375	PT06E14-19P(SR)-ND*	28.95	18.90
1			Plug w/sockets	1.156	1.906	.375	PT06E14-19S(SR)-ND*	32.02	20.50
1			Plug w/pins	1.156	1.906	.375	PT06A-14-19P(SR)-ND*	34.36	21.99
2			Recept. w/pins	1.125	.825	.823	PT02A14-19P-ND	21.35	14.95
2			Recept. w/sockets	1.125	.825	.823	PT02A14-19S-ND	21.85	14.26
1	16-8	8/16	Plug w/pins	1.281	2.047	.500	PT06E16-8P(SR)-ND*	39.35	25.19
1			Plug w/sockets	1.281	2.047	.500	PT06E16-8S(SR)-ND*	38.86	27.21
2			Recept. w/pins	1.219	.825	.949	PT02A16-8P-ND	16.05	11.24
2			Recept. w/sockets	1.219	.825	.949	PT02A16-8S-ND	19.28	13.50
2	16-26	26/20	Recept. w/pins	1.219	.825	.949	PT02A-16-26P-ND	25.46	16.62
1	20-16	16/16	Plug w/pins	1.531	2.250	.625	PT06E20-16P(SR)-ND*	49.66	34.77
1			Plug w/sockets	1.531	2.250	.625	PT06E20-16S(SR)-ND*	50.66	35.47
2			Recept. w/pins	1.438	1.076	1.199	PT02A20-16P-ND	31.68	20.28
2			Recept. w/sockets	1.438	1.076	1.199	PT02A20-16S-ND	40.34	28.24
1	22-55	55/20	Plug w/pins	1.656	2.250	.750	PT06E22-55P(SR)-ND*	65.14	45.60
1			Plug w/sockets	1.656	2.250	.750	PT06E22-55S(SR)-ND*	80.32	56.23
2			Recept. w/pins	1.562	1.076	1.323	PT02A22-55P-ND	40.34	28.24
2			Recept. w/sockets	1.562	1.076	1.323	PT02A22-55S-ND	45.40	31.78
3	24-61	61/20	Plug w/pins	1.776	1.750	—	PT06A-24-61P-ND	64.62	45.24
			Plug w/sockets	1.776	1.750	—	PT06A-24-61S-ND	69.74	48.82

*(SR) at end of part number designates that a strain relief is included

(Continued)

Amphenol® Industrial Circular Bayonet Lock Connectors *(Cont.)*

PT with Solder Contacts (MIL-C-26482 Series 1 Type)

RoHS COMPLIANT

Aluminum shell components: Non-conductive black zinc cobalt plated. Dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves. Insert and main joint gasket molded from resilient neoprene.

Solder contacts are installed. Pins and sockets are copper alloy/gold plated.
PT solder series is UL recognized under file #E115497, Section 5

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	10
1	8-2	2/20	Plug w/sockets	.750	1.906	.125	PT06A-8-2S(470)-ND*	28.34	23.10
2			Recept. w/pins	.812	.825	.449	PT02A-8-2P(025)-ND	12.83	9.87
1	8-3	3/20	Plug w/sockets	.750	1.906	.125	PT06A-8-3S(470)-ND*	29.50	24.05
1			Plug w/sockets	.750	1.906	.125	PT06E-8-3S(470)-ND*	31.08	25.33
2			Recept. w/pins	.812	.825	.449	PT02A-8-3P(025)-ND	14.20	10.92
2			Recept. w/pins	.812	.825	.449	PT02E-8-3P(025)-ND	11.62	8.84
3	8-4	4/20	Plug w/sockets	.750	1.609	—	PT06A-8-4S(025)-ND	21.42	16.83
1			Plug w/pins	.750	1.906	.125	PT06E8-4P(470)-ND*	21.46	16.87
1			Plug w/sockets	.750	1.906	.125	PT06E8-4S(470)-ND*	30.96	25.24
1			Plug w/pins	.750	1.906	.125	PT06A-8-4P(470)-ND*	26.86	21.90
1			Plug w/sockets	.750	1.906	.125	PT06A-8-4S(470)-ND*	27.36	22.30
4			Plug w/sockets	.750	1.266	—	PT06E-8-4S(025)-ND	21.78	17.76
2			Recept. w/pins	.812	.825	.449	PT02A8-4P(025)-ND	11.75	8.95
2			Recept. w/sockets	.812	.825	.449	PT02A8-4S(025)-ND	13.23	10.18
2			Recept. w/pins	.812	.825	.449	PT02E-8-4P(025)-ND	13.19	10.14
2			Recept. w/sockets	.812	.825	.449	PT02E-8-4S(025)-ND	11.25	8.56
1	10-6	6/20	Plug w/pins	.859	1.906	.188	PT06E10-6P(470)-ND*	21.70	17.69
1			Plug w/sockets	.859	1.906	.188	PT06E10-6S(470)-ND*	33.50	27.49
1			Plug w/pins	.859	1.906	.188	PT06A-10-6P(470)-ND*	27.10	22.09
1			Plug w/sockets	.859	1.906	.188	PT06A-10-6S(470)-ND*	31.45	25.81
2			Recept. w/pins	.938	.825	.573	PT02A10-6P(025)-ND	13.14	10.11
2			Recept. w/sockets	.938	.825	.573	PT02A10-6S(025)-ND	14.17	11.15
2			Recept. w/pins	.938	.825	.573	PT02E-10-6P(025)-ND	14.63	11.51
2			Recept. w/sockets	.938	.825	.573	PT02E-10-6S(025)-ND	16.54	12.79
5			Recept. w/pins	.938	1.553	—	PT00A-10-6P(025)-ND	22.10	18.02
6			Recept. w/pins	.938	1.266	—	PT00E-10-6P(025)-ND	24.76	20.18
7			Recept. w/pins	.938	1.922	.188	PT01A-10-6P(470)-ND*	25.02	20.40
3	12-3	3/16	Plug w/sockets	1.013	1.609	—	PT06A-12-3S(025)-ND	20.29	15.94
1			Plug w/pins	1.013	1.906	.312	PT06E12-3P(470)-ND*	23.50	19.16
1			Plug w/sockets	1.013	1.906	.312	PT06E12-3S(470)-ND*	24.82	20.23
1			Plug w/pins	1.013	1.906	.312	PT06A-12-3P(470)-ND*	27.68	22.56
1			Plug w/sockets	1.013	1.906	.312	PT06A-12-3S(470)-ND*	28.34	23.10
2			Recept. w/pins	1.031	.825	.699	PT02A12-3P(025)-ND	10.74	8.18
2			Recept. w/sockets	1.031	.825	.699	PT02A12-3S(025)-ND	18.22	14.08
2			Recept. w/pins	1.031	.825	.699	PT02E-12-3P(025)-ND	11.91	9.07
1	12-4	4/16	Plug w/pins	1.013	1.906	.312	PT06A-12-4P(470)-ND*	31.72	25.86
2			Recept. w/sockets	1.031	.825	.699	PT02E-12-4S(025)-ND	19.49	15.78
3	12-8	8/20	Plug w/pins	1.013	1.609	—	PT06A-12-8P(025)-ND	22.78	18.57
3			Plug w/sockets	1.013	1.609	—	PT06A-12-8S(025)-ND	24.04	19.60
1			Plug w/pins	1.013	1.906	.312	PT06E-12-8P(470)-ND*	30.12	24.55
1			Plug w/sockets	1.013	1.906	.312	PT06E-12-8S(470)-ND*	35.06	28.77
2			Recept. w/pins	1.031	.825	.699	PT02E-12-8P(025)-ND	14.10	11.09
1	12-10	10/20	Plug w/pins	1.013	1.906	.312	PT06E12-10P(470)-ND*	25.32	20.64
1			Plug w/sockets	1.013	1.906	.312	PT06E12-10S(470)-ND*	28.48	23.22
1			Plug w/pins	1.013	1.906	.312	PT06A-12-10P(470)-ND*	21.84	17.16
1			Plug w/sockets	1.013	1.906	.312	PT06A-12-10S(470)-ND*	25.42	20.72
2			Recept. w/pins	1.031	.825	.699	PT02A12-10P(025)-ND	17.01	13.15
2			Recept. w/sockets	1.031	.825	.699	PT02A12-10S(025)-ND	17.84	13.79
2			Recept. w/pins	1.031	.825	.699	PT02E-12-10P(025)-ND	14.59	11.47
2			Recept. w/sockets	1.031	.825	.699	PT02E-12-10S(025)-ND	14.19	11.16
1	14-5	5/16	Plug w/pins	1.156	1.906	.375	PT06E14-5P(470)-ND*	31.62	25.77
1			Plug w/sockets	1.156	1.906	.375	PT06E14-5S(470)-ND*	28.24	23.02
1			Plug w/sockets	1.156	1.906	.375	PT06A-14-5S(470)-ND*	33.09	27.16
2			Recept. w/pins	1.125	.825	.823	PT02A14-5P(025)-ND	15.69	12.34
2			Recept. w/sockets	1.125	.825	.823	PT02A14-5S(025)-ND	21.65	17.02
2			Recept. w/pins	1.125	.825	.823	PT02E-14-5P(025)-ND	13.34	10.26
1	14-12	8/20, 4/16	Plug w/pins	1.156	1.906	.375	PT06A-14-12P(470)-ND*	24.30	19.81
1			Plug w/sockets	1.156	1.906	.375	PT06E-14-12S(470)-ND*	27.38	22.32
2			Recept. w/pins	1.125	.825	.823	PT02E-14-12P(025)-ND	13.64	10.49
2			Recept. w/sockets	1.125	.825	.823	PT02E-14-12S(025)-ND	22.36	18.23
2			Recept. w/sockets	1.125	.825	.823	PT02A-14-12S(025)-ND	21.40	16.82
3	14-15	14/20, 1/16	Plug w/pins	1.156	1.609	—	PT06A-14-15P(470)-ND*	25.42	20.72
3			Plug w/sockets	1.156	1.609	—	PT06A-14-15S(470)-ND*	29.66	24.18
2			Recept. w/sockets	1.125	.825	.823	PT02A-14-15S(025)-ND	18.04	14.61
2			Recept. w/pins	1.125	.825	.823	PT02A-14-15P(025)-ND	14.61	11.49
3	14-18	18/20	Plug w/pins	1.156	1.609	—	PT06A-14-18P(025)-ND	21.28	17.35
1			Plug w/sockets	1.156	1.906	.375	PT06E-14-18S(470)-ND*	32.35	26.55
2			Recept. w/pins	1.125	.825	.823	PT02A-14-18P(025)-ND	18.08	14.64
2			Recept. w/sockets	1.125	.825	.823	PT02E-14-18S(025)-ND	18.84	15.25
1	14-19	19/20	Plug w/pins	1.156	1.906	.375	PT06E14-19P(470)-ND*	27.88	22.73
1			Plug w/sockets	1.156	1.906	.375	PT06E14-19S(470)-ND*	31.22	25.62
1			Plug w/pins	1.156	1.906	.375	PT06A-14-19P(470)-ND*	32.92	27.01
2			Recept. w/pins	1.125	.825	.823	PT02A14-19P(025)-ND	18.29	14.81
2			Recept. w/sockets	1.125	.825	.823	PT02A14-19S(025)-ND	19.80	16.04
1	16-8	8/16	Plug w/pins	1.281	2.047	.500	PT06E16-8P(470)-ND*	37.67	30.92
1			Plug w/sockets	1.281	2.047	.500	PT06E16-8S(470)-ND*	40.97	33.62
2			Recept. w/pins	1.219	.825	.949	PT02A16-8P(025)-ND	14.98	11.79
2			Recept. w/sockets	1.219	.825	.949	PT02A16-8S(025)-ND	17.58	13.59
2	16-26	26/20	Recept. w/pins	1.219	.825	.949	PT02A-16-26P(025)-ND	21.22	17.30
1	20-16	16/16	Plug w/pins	1.531	2.250	.625	PT06E20-16P(470)-ND*	49.36	40.27
1			Plug w/sockets	1.531	2.250	.625	PT06E20-16S(470)-ND*	49.82	40.65
2			Recept. w/pins	1.438	1.076	1.199	PT02A20-16P(025)-ND	28.00	22.82
2			Recept. w/sockets	1.438	1.076	1.199	PT02A20-16S(025)-ND	38.24	31.38
1	22-55	55/20	Plug w/pins	1.656	2.250	.750	PT06E22-55P(470)-ND*	57.49	47.91
1			Plug w/sockets	1.656	2.250	.750	PT06E22-55S(470)-ND*	70.52	58.77
2			Recept. w/pins	1.562	1.076	1.323	PT02A22-55P(025)-ND	36.91	30.29
2			Recept. w/sockets	1.562	1.076	1.323	PT02A22-55S(025)-ND	40.68	33.19
3	24-61	61/20	Plug w/pins	1.776	1.750	—	PT06A-24-61P(025)-ND	57.57	47.62
			Plug w/sockets	1.776	1.750	—	PT06A-24-61S(025)-ND	60.73	50.61

* (470) at end of part number designates that a strain relief is included.

MS with Solder Contacts (MIL-C-26482 Series 1 Type)

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	10
1	8-2	2/20	Plug w/sockets	.750	1.906	.125	MS3116F-8-2S-ND†	24.75	16.16
4			Plug w/sockets	.750	1.266	—	MS3116E-8-2S-ND*	17.43	12.20
2			Recept. w/pins	.812	.825	.449	MS3112E-8-2P-ND*	14.28	8.57
4	8-3	3/20	Plug w/pins	.750	1.266	—	MS3116E-8-3P-ND*	19.43	13.60
4			Plug w/sockets	.750	1.266	—	MS3116E-8-3S-ND*	20.55	14.39
1			Plug w/sockets	.750	1.906	.125	MS3116F-8-3S-ND†	23.51	15.35
2			Recept. w/pins	.812	.825	.449	MS3112E-8-3P-ND*	12.84	7.71
2			Recept. w/sockets	.812	.825	.449	MS3112E-8-3S-ND	13.28	9.30
1	8-4	4/20	Plug w/pins	.750	1.906	.125	MS3116F-8-4P-ND†	21.85	14.26
4			Plug w/sockets	.750	1.266	—	MS3116E-8-4S-ND*	18.95	13.27
1			Plug w/sockets	.750	1.906	.125	MS3116F-8-4S-ND†	24.27	15.85
2			Recept. w/pins	.812	.825	.449	MS3112E-8-4P-ND*	12.78	7.67
2			Recept. w/sockets	.812	.825	.449	MS3112E-8-4S-ND*	16.00	11.20
1	10-6	6/20	Plug w/pins	.859	1.906	.188	MS3116F-10-6P-ND†	21.02	13.72
1			Plug w/sockets	.859	1.906	.188	MS3116F-10-6S-ND†	22.33	14.57
8			Recept. w/pins	.938	1.922	.188	MS3110F-10-6P-ND†	31.86	20.39
8			Recept. w/sockets	.938	1.922	.188	MS3110F-10-6S-ND†	33.80	21.63
2			Recept. w/pins	.938	.825	.573	MS3112E-10-6P-ND*	13.62	8.18
2			Recept. w/sockets	.938	.825	.573	MS3112E-10-6S-ND*	13.05	9.14
4			Plug w/sockets	.859	1.266	—	MS3116E-10-6S-ND*	19.62	12.81
1	12-3	3/16	Plug w/pins	1.013	1.906	.312	MS3116F-12-3P-ND†	25.18	16.43
1			Plug w/sockets	1.013	1.906	.312	MS3116F-12-3S-ND†	27.74	18.11
2			Recept. w/pins	1.031	.825	.699	MS3112E-12-3P-ND*	11.98	8.39
2			Recept. w/sockets	1.031	.825	.699	MS3112E-12-3S-ND*	14.98	10.49
1	12-10	10/20	Plug w/pins	1.013	1.906	.312	MS3116F-12-10P-ND†	26.84	17.52
1			Plug w/sockets	1.013	1.906	.312	MS3116F-12-10S-ND†	27.12	17.71
2			Recept. w/pins	1.031	.825	.699	MS3112E-12-10P-ND*	13.58	9.51
2			Recept. w/sockets	1.031	.825	.699	MS3112E-12-10S-ND*	24.53	16.02
1	14-12	8/20, 4/16	Plug w/sockets	1.156	1.906	.375	MS3116F-14-12S-ND†	35.08	22.45
2			Recept. w/pins	1.125	.825	.823	MS3112E-14-12P-ND*	21.64	14.13
1	14-18	18/20	Plug w/sockets	1.156	1.906	.375	MS3116F-14-18S-ND†	40.02	28.02
2			Recept. w/pins	1.125	.825	.823	MS3112E-14-18P-ND*	24.82	16.20
1	14-19	19/20	Plug w/sockets	1.156	1.906	.375	MS3116F-14-19S-ND†	39.54	27.68
2			Recept. w/pins	1.125	.825	.823	MS3112E-14-19P-ND*	20.98	14.69
1	16-26	26/20	Plug w/sockets	1.281	2.047	.500	MS3116F-16-26S-ND†	41.24	28.87
2			Recept. w/pins	1.219	.825	.949	MS3112E-16-26P-ND*	23.54	15.37
1	18-32	32/20	Plug w/pins	1.319	2.078	.625	MS3116F-18-32P-ND†	51.74	36.22
1	20-41	41/20	Plug w/sockets	1.531	2.250	.625	MS3116F-20-41S-ND†	62.34	43.64
2	22-55	55/20	Recept. w/pins	1.562	1.076	1.323	MS3112E-22-55P-ND*	40.64	26.01

* Environmental resistant supplied with a multi-holed grommet and clamping nut for moisture-proofing individual open wires † Grommet seal with strain relief clamp

(Continued)

Circular Bayonet Lock Connectors *(Cont.)*

PT-SE with Crimp Contacts (MIL-C-26482 Series 1 Type)

Aluminum shell components: Standard olive drab, electrically conductive cadmium plated. Dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves. Insert and main joint gasket molded from resilient neoprene.

Crimp contacts are included, but not installed. (See Astro Tool Corp. hand crimping tools and contact installation/removal tools). Pins and sockets are copper alloy/gold plated.

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	10
1	10-6	6/20	Plug w/pins	.859	2.413	.188	PT06SE10-6P(SR)-ND*	37.04	23.71
1			Plug w/sockets	.859	2.413	.188	PT06SE10-6S(SR)-ND*	31.77	20.34
9			Recept. w/pins	.954	1.296	—	PT02SE10-6P-ND	31.34	20.06
9			Recept. w/sockets	.954	1.296	—	PT02SE10-6S-ND	37.82	24.21
1	12-10	10/20	Plug w/pins	1.031	2.413	.312	PT06SE12-10P(SR)-ND*	37.06	25.95
1			Plug w/sockets	1.031	2.413	.312	PT06SE12-10S(SR)-ND*	30.89	19.78
9			Recept. w/pins	1.047	1.296	—	PT02SE12-10P-ND	32.04	20.51
9			Recept. w/sockets	1.047	1.296	—	PT02SE12-10S-ND	36.68	25.68
1	16-8	8/16	Plug w/pins	1.281	2.528	.500	PT06SE16-8P(SR)-ND*	52.12	36.49
1			Plug w/sockets	1.281	2.528	.500	PT06SE16-8S(SR)-ND*	64.66	45.27
9			Recept. w/pins	1.234	1.296	—	PT02SE16-8P-ND	50.80	35.56
9			Recept. w/sockets	1.234	1.296	—	PT02SE16-8S-ND	58.10	40.67
1	18-32	32/20	Plug w/pins	1.391	2.528	.625	PT06SE18-32P(SR)-ND*	70.54	49.38
1			Plug w/sockets	1.391	2.528	.625	PT06SE18-32S(SR)-ND*	83.66	58.57
9			Recept. w/pins	1.328	1.296	—	PT02SE18-32P-ND	64.34	45.04
9			Recept. w/sockets	1.328	1.296	—	PT02SE18-32S-ND	68.30	47.81
1	20-16	16/16	Plug w/pins	1.531	2.753	.625	PT06SE20-16P(SR)-ND*	37.32	26.13
1			Plug w/sockets	1.531	2.753	.625	PT06SE20-16S(SR)-ND*	84.96	59.48
9			Recept. w/pins	1.453	1.358	—	PT02SE20-16P-ND	62.18	43.53
9			Recept. w/sockets	1.453	1.358	—	PT02SE20-16S-ND	76.24	53.37
1	22-55	55/20	Plug w/sockets	1.656	2.753	.750	PT06SE22-55S(SR)-ND*	68.64	48.05
9			Recept. w/pins	1.578	1.358	—	PT02SE22-55P-ND	86.26	60.39
1	24-61	61/20	Plug w/pins	1.777	2.830	.800	PT06SE24-61P(SR)-ND*	68.44	47.91
1			Plug w/sockets	1.777	2.830	.800	PT06SE24-61S(SR)-ND*	86.34	60.44
9			Recept. w/pins	1.703	1.358	—	PT02SE24-61P-ND	98.20	68.74
9			Recept. w/sockets	1.703	1.358	—	PT02SE24-61S-ND	130.18	91.13

* (SR) at end of part number designates that a strain relief is included.

PT-SE with Crimp Contacts (MIL-C-26482 Series 1 Type)

Aluminum shell components: Non-conductive black zinc cobalt plated. Dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves. Insert and main joint gasket molded from resilient neoprene.

Crimp contacts are included, but not installed. (See Astro Tool Corp. hand crimping tools and contact installation/removal tools). Pins and sockets are copper alloy/gold plated.

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	10
1	10-6	6/20	Plug w/pins	.859	2.413	.188	PT06SE10-6P(470)-ND*	35.70	29.30
1			Plug w/sockets	.859	2.413	.188	PT06SE10-6S(470)-ND*	31.55	25.89
9			Recept. w/pins	.954	1.296	—	PT02SE10-6P(025)-ND	28.22	23.00
9			Recept. w/sockets	.954	1.296	—	PT02SE10-6S(025)-ND	33.27	27.30
1	12-10	10/20	Plug w/pins	1.031	2.413	.312	PT06SE12-10P(470)-ND*	39.31	32.26
1			Plug w/sockets	1.031	2.413	.312	PT06SE12-10S(470)-ND*	31.32	25.53
9			Recept. w/pins	1.047	1.296	—	PT02SE12-10P(025)-ND	28.54	23.26
9			Recept. w/sockets	1.047	1.296	—	PT02SE12-10S(025)-ND	35.88	29.44
1	16-8	8/16	Plug w/pins	1.281	2.528	.500	PT06SE16-8P(470)-ND*	51.10	42.26
1			Plug w/sockets	1.281	2.528	.500	PT06SE16-8S(470)-ND*	60.16	50.13
9			Recept. w/pins	1.234	1.296	—	PT02SE16-8P(025)-ND	47.96	39.13
9			Recept. w/sockets	1.234	1.296	—	PT02SE16-8S(025)-ND	52.76	43.64
1	18-32	32/20	Plug w/pins	1.391	2.528	.625	PT06SE18-32P(470)-ND*	63.00	52.50
1			Plug w/sockets	1.391	2.528	.625	PT06SE18-32S(470)-ND*	73.91	61.59
9			Recept. w/pins	1.328	1.296	—	PT02SE18-32P(025)-ND	56.18	46.47
9			Recept. w/sockets	1.328	1.296	—	PT02SE18-32S(025)-ND	57.98	48.32
1	20-16	16/16	Plug w/pins	1.531	2.753	.625	PT06SE20-16P(470)-ND*	39.21	32.18
1			Plug w/sockets	1.531	2.753	.625	PT06SE20-16S(470)-ND*	76.36	63.63
9			Recept. w/pins	1.453	1.358	—	PT02SE20-16P(025)-ND	55.85	46.20
9			Recept. w/sockets	1.453	1.358	—	PT02SE20-16S(025)-ND	65.75	54.80
1	22-55	55/20	Plug w/pins	1.656	2.753	.750	PT06SE22-55P(470)-ND*	75.04	64.32
1			Plug w/sockets	1.656	2.753	.750	PT06SE22-55S(470)-ND*	60.89	50.75
9			Recept. w/pins	1.578	1.358	—	PT02SE22-55P(025)-ND	71.64	59.70
9			Recept. w/sockets	1.578	1.358	—	PT02SE22-55S(025)-ND	80.59	69.08
1	24-61	61/20	Plug w/pins	1.777	2.830	.800	PT06SE24-61P(470)-ND*	60.19	50.16
9			Recept. w/pins	1.703	1.358	—	PT02SE24-61P(025)-ND	79.15	67.85
9			Recept. w/sockets	1.703	1.358	—	PT02SE24-61S(025)-ND	104.34	87.45

* (470) at end of part number designates that a strain relief is included.

Replacement Crimp Contacts

Description	Contact Size	Digi-Key Part No.	Price Each 1	10	50
Replacement Pin	16	10-314980-16P-ND	1.96	1.18	.77
Replacement Pin	20	10-314980-20P-ND	1.35	.81	.53
Replacement Socket	16	10-257982-16F-ND	3.12	1.87	1.22
Replacement Socket	20	LP-597820-355-ND	1.54	.92	.60

MS with Crimp Contacts (MIL-C-26482 Series 1 Type)

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	10
1	10-6	6/20	Plug w/pins	—	2.413	.188	MS3126F-10-6P-ND	31.48	20.15
1			Plug w/sockets	—	2.413	.188	MS3126F-10-6S-ND	31.45	20.53
8			Recept. w/pins	.954	2.422	.188	MS3120F-10-6P-ND	37.67	24.11
8			Recept. w/sockets	.954	2.422	.188	MS3120F-10-6S-ND	36.16	23.15
9			Recept. w/pins	.954	1.296	—	MS3122E-10-6P-ND	33.16	21.64
7			Recept. w/sockets	.955	2.422	.188	MS3121F-10-6S-ND	36.99	23.68
1	12-3	3/16	Plug w/sockets	1.031	2.413	.312	MS3126F-12-3S-ND	38.27	24.50
8			Recept. w/pins	1.047	2.422	.312	MS3120F-12-3P-ND	36.18	23.16
9			Recept. w/pins	1.047	1.296	—	MS3122E-12-3P-ND	29.34	18.78
1	12-10	10/20	Plug w/pins	1.031	2.413	.312	MS3126F-12-10P-ND	33.84	21.66
1			Plug w/sockets	1.031	2.413	.312	MS3126F-12-10S-ND	32.56	21.26
6			Recept. w/pins	1.047	1.328	.312	MS3120E-12-10P-ND	41.09	26.82
9			Recept. w/pins	1.047	1.296	—	MS3122E-12-10P-ND	27.67	18.06
9			Recept. w/sockets	1.047	1.296	—	MS3122E-12-10S-ND	26.46	17.27
1	14-5	5/16	Plug w/sockets	1.156	2.413	.375	MS3126F-14-5S-ND	43.25	27.68
9			Recept. w/pins	1.141	1.296	—	MS3122E-14-5P-ND	27.95	18.25
1	14-12	8/20, 4/16	Plug w/sockets	1.156	2.413	.375	MS3126F-14-12S-ND	45.29	28.99
9			Recept. w/pins	1.141	1.296	—	MS3122E-14-12P-ND	32.02	20.50
1	14-15	14/20, 1/16	Plug w/sockets	1.156	2.413	.375	MS3126F-14-15S-ND	43.90	28.10
1	14-18	18/20	Plug w/sockets	1.156	2.413	.375	MS3126F-14-18S-ND	38.75	24.80
9			Recept. w/pins	1.141	1.296	—	MS3122E-14-18P-ND	33.59	21.50
1	14-19	19/20	Plug w/pins	1.156	2.413	.375	MS3126F-14-19P-ND	43.34	27.74
1			Plug w/sockets	1.156	2.413	.375	MS3126F-14-19S-ND	40.82	26.13
9			Recept. w/pins	1.141	1.296	—	MS3122E-14-19P-ND	34.76	22.25
8			Recept. w/sockets	1.141	2.422	.375	MS3120F-14-19S-ND	41.04	28.73
10			Recept. w/sockets	1.391	1.438	—	MS3124E-14-19S-ND	53.70	37.59
1	16-8	8/16	Plug w/pins	1.281	2.528	.500	MS3126F-16-8P-ND	39.47	25.26
1	16-26	26/20	Plug w/pins	1.281	2.528	.500	MS3126F-16-26P-ND	46.28	32.40
1			Plug w/sockets	1.281	2.528	.500	MS3126F-16-26S-ND	45.60	31.92
9			Recept. w/pins	1.234	1.296	—	MS3122E-16-26P-ND	43.29	27.71
1	18-11	11/16	Plug w/sockets	1.391	2.528	.625	MS3126F-18-11S-ND	63.50	44.45
1	20-16	16/16	Plug w/sockets	1.531	2.753	.625	MS3126F-20-16S-ND	72.84	50.99
1	20-41	41/20	Plug w/sockets	1.531	2.753	.625	MS3126F-20-41S-ND	59.44	41.61
8			Recept. w/sockets	1.453	2.824	.625	MS3120F-20-41S-ND	82.46	52.79
9			Recept. w/pins	1.453	1.358	—	MS3122E-20-41P-ND	53.16	37.22
1	22-55	55/20	Plug w/sockets	1.656	2.753	.750	MS3126F-22-55S-ND	69.20	48.44
9			Recept. w/pins	1.578	1.358	—	MS3122E-22-55P-ND	61.40	42.98
9			Recept. w/sockets	1.578	1.358	—	MS3122E-22-55S-ND	62.40	43.68
1	24-61	61/20	Plug w/sockets	1.777	2.830	.800	MS3126F-24-61S-ND	86.12	60.29

PT Series Mounting Flange Gaskets

For use with wall and box mounting PT00 and PT02 receptacles

Shell Size	Digi-Key Part No.	Pricing 1	10	50
8	10-101949-008-ND	.36	2.04	7.50
10	10-101949-010-ND	.40	2.28	8.40
12	10-101949-012-ND	.40	2.28	8.40
14	10-101949-014-ND	.40	2.28	8.40
16	10-101949-016-ND	.45	2.56	9.60
18	10-101949-018-ND	.49	2.79	10.35
20	10-101949-020-ND	.49	2.79	10.35
22	10-101949-022-ND	.49	2.79	10.35
24	10-101949-024-ND	1.59	10.32	40.85

ASTRO TOOL CORP.
CONNECTOR ASSEMBLY TOOLING

Tools

	Hand Crimping Tool Military Standard Tool Part No.				Insertion Tool						Removal Tool			
Contact Size	Tool Frame	Price Each	Turret Head	Price Each	Production Metal Pliers	Price Each	Prototype Plastic	Price Each	Military Standard Part No.	Price Each	Prototype	Price Each	Military Standard Part No.	Price Each
20	615708-ND	282.96	615709-ND	102.41	ATBX1-8107-20-ND	191.32	ATA1086-ND	32.25	ATML1703B-ND	29.53	AT2020-ND	37.11	ATML1906B-ND	37.11
16	615708-ND	282.96	615709-ND	102.41	ATBX1-8107-16-ND	191.32	ATA1101-ND	38.77	ATML1704B-ND	29.53	AT2016-ND	37.11	ATML1901B-ND	56.39

Amphenol® Industrial

Circular Threaded Connectors — 97 Series
with Solder Contacts (MIL-C-5015 Type)

Plugs and Receptacles

Low cost, general duty, non-environmental connectors. Available in either A solid or B split shell styles. Used extensively in the machine tool industry, welding industry and numerous other commercial applications. **Features:** • Single key/keyway polarization • Threaded coupling • Hard dielectric inserts made of diallyl-phthalate • Aluminum alloy components with a conductive cadmium plate finish and olive chromate after-treatment • Contacts are solder type, silver plated with pre-tinned solder cups • Cable clamps are zinc alloy with olive drab/green chromate finish

E115497 LR69183

Fig. 1 — Straight Plug (97 Series)

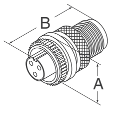

Coupling ring machined from solid aluminum bar stock for high tensile strength. Mates with all types of 97 series receptacles. Front shell includes polarization keyway. Solid shell. Threaded backshell.

Fig. 2 — Angle Plug (97 Series)

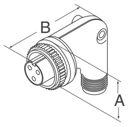

Shell is split longitudinally for convenient solder or inspection. Front shell is keyed to allow the 90 degree angle housing to be rotated and locked at any 45 degree increment.

Fig. 3 — Cable Receptacle

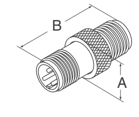

Fig. 4 — Box Mount Receptacle

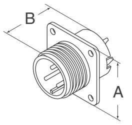

Mounting Holes
.147 Diameter sizes 24,28
.120 Diameter all other sizes

Fig. 5 — Wall Mount Receptacle

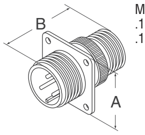

Mounting Holes
.147 Diameter sizes 24, 28
.120 Diameter all other sizes

Fig. 6 — Cable Clamp

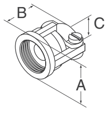

Fig. 7 — Bushing

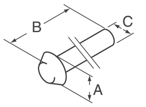

Fig. 8 — Straight Plug

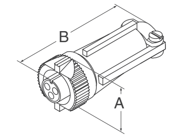

Fig. 9 — Straight Plug

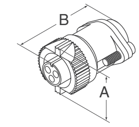

Fig. 10

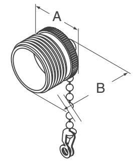

Fig. 11

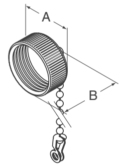

Insert Patterns
(Front face of pin insert shown. Drawings not to scale.)

CONTACT LEGEND		
●	⊕	◉
16	12	8

SERVICE RATING:

		INST	A	D	E	B	C
Limited Operating	DC	250	700	1250	1750	2450	4200
Voltages at Sea Level	AC(rms)	200	500	900	1250	1750	3000

TEST CURRENT: Contact Size 16 = 13 amperes, Contact Size 12 = 23 amperes
NOTE: Transients were not considered in calculating these values.
NOTE: Limiting operating voltage at 50,000 feet altitude are approximately 25% of the sea level values.

Insert Arrangement
Service Rating

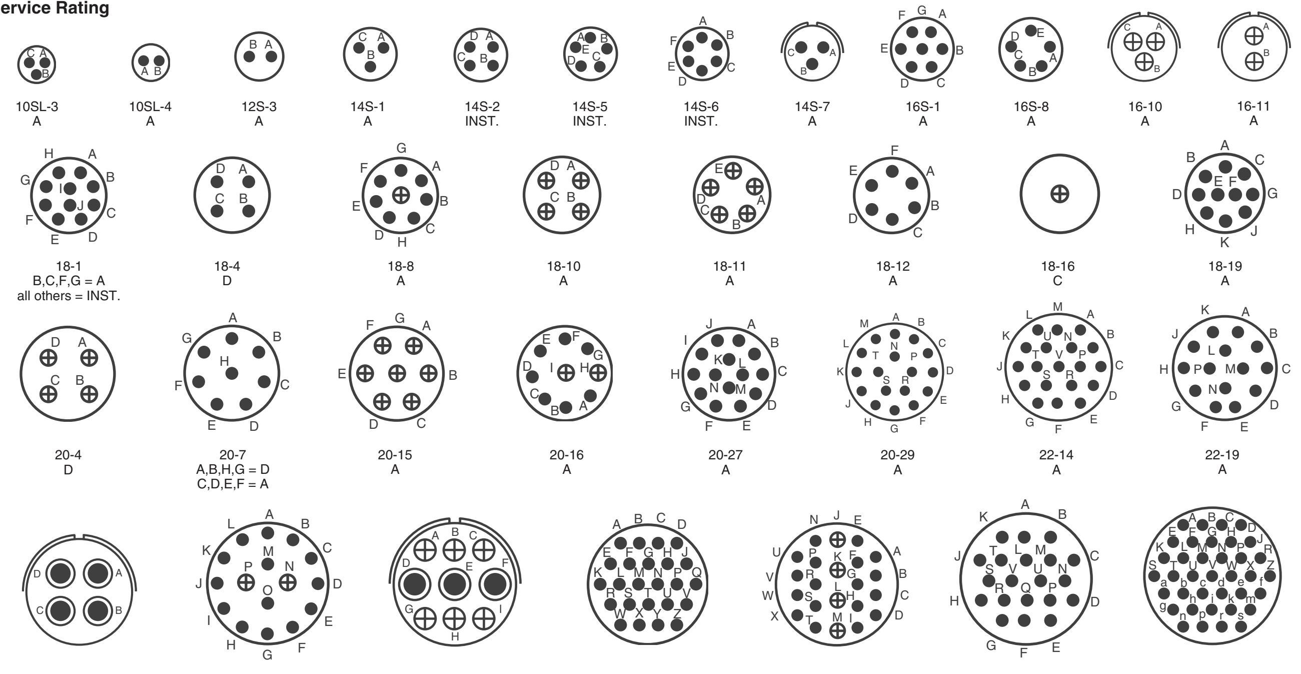

10SL-3 A
10SL-4 A
12S-3 A
14S-1 A
14S-2 INST.
14S-5 INST.
14S-6 INST.
14S-7 A
16S-1 A
16S-8 A
16-10 A
16-11 A
18-1 B,C,F,G = A all others = INST.
18-4 D
18-8 A
18-10 A
18-11 A
18-12 A
18-16 C
18-19 A
20-4 D
20-7 A,B,H,G = D C,D,E,F = A
20-15 A
20-16 A
20-27 A
20-29 A
22-14 A
22-19 A
22-22 A
24-7 A
24-11 A
24-28 INST.
28-11 A
28-16 A
28-21 A

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	Digi-Key Part No.	Price Each 1	10
1	10SL-3	3/16	Plug with Socket	7/8	1-3/8	97-3106A-10SL-3S-ND	14.83	11.41
2			Plug with Socket	7/8	1-1/2	97-3108B-10SL-3S-ND	38.72	29.92
3			Recept. with Pins	1	1-9/32	97-3101A-10SL-3P-ND	34.06	26.78
4			Recept. with Pins	3/4	1-9/32	97-3102A-10SL-3P-ND	21.31	15.99
1	10SL-4	2/16	Plug with Socket	7/8	1-3/8	97-3106A-10SL-4S-ND	28.13	21.63
2			Plug with Socket	7/8	1-1/2	97-3108B-10SL-4S-ND	37.00	28.60
3			Recept. with Pins	1	1-9/32	97-3101A-10SL-4P-ND	32.43	25.50
4			Recept. with Pins	1	1-9/32	97-3102A-10SL-4P-ND	19.68	14.76
1	12S-3	2/16	Plug with Pins	1	1-7/16	97-3106A-12S-3P-ND	12.85	9.88
			Plug with Socket	1	1-7/16	97-3106A-12S-3S-ND	17.03	13.10
4			Recept. with Pins	1-3/32	1-15/32	97-3102A-12S-3P-ND	10.48	7.55
			Recept. with Socket	1-3/32	1-15/32	97-3102A-12S-3S-ND	10.85	8.14
1	14S-1	3/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-1P-ND	14.83	11.41
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-1S-ND	18.39	14.47
2			Plug with Pins	1-1/8	1-23/32	97-3108B-14S-1P-ND	16.81	13.22
			Plug with Socket	1-1/8	1-23/32	97-3108B-14S-1S-ND	17.27	13.59
5	14S-1	3/16	Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-1P-ND	14.83	11.41
			Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-1S-ND	18.39	14.47
3			Recept. with Pins	7/8	1-15/32	97-3101A-14S-1P-ND	22.13	17.11
			Recept. with Socket	7/8	1-15/32	97-3101A-14S-1S-ND	18.13	14.01
1	14S-2	4/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-2P-ND	14.74	11.34
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-2S-ND	15.58	12.25
2			Plug with Pins	1-1/8	1-23/32	97-3108B-14S-2P-ND	20.68	16.27
			Plug with Socket	1-1/8	1-23/32	97-3108B-14S-2S-ND	18.04	13.94
5			Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-2P-ND	19.95	15.70
			Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-2S-ND	21.67	16.75
3			Recept. with Pins	7/8	1-15/32	97-3101A-14S-2P-ND	22.00	17.00
			Recept. with Socket	7/8	1-15/32	97-3101A-14S-2S-ND	23.32	18.02
1	14S-5	5/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-5P-ND	16.13	12.69
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-5S-ND	16.72	13.15
2			Plug with Pins	1-1/8	1-23/32	97-3108B-14S-5P-ND	22.62	17.48
			Plug with Socket	1-1/8	1-23/32	97-3108B-14S-5S-ND	23.32	18.02
5			Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-5P-ND	19.95	15.70
			Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-5S-ND	20.70	16.28

(Continued)

Amphenol® Industrial

Circular Threaded Connectors — 97 Series
with Solder Contacts (MIL-C-5015 Type)

Plugs and Receptacles *(Cont.)*

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches)		Digi-Key Part No.	Price Each	
				A	B		1	10
3	14S-5	5/16	Recept. with Pins	7/8	1-15/32	97-3101A-14S-5P-ND	19.14	14.79
			Recept. with Socket	7/8	1-15/32	97-3101A-14S-5S-ND	23.63	19.13
1	14S-6	6/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-6P-ND	16.72	13.15
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-6S-ND	16.83	13.24
2			Plug with Pins	1-1/8	1-23/32	97-3108B-14S-6P-ND	23.32	18.02
			Plug with Socket	1-1/8	1-23/32	97-3108B-14S-6S-ND	23.91	18.48
5			Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-6P-ND	20.70	16.28
			Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-6S-ND	20.86	16.40
3			Recept. with Pins	7/8	1-15/32	97-3101A-14S-6P-ND	19.07	15.44
			Recept. with Socket	7/8	1-15/32	97-3101A-14S-6S-ND	24.19	19.59
1	16S-1	7/16	Plug with Pins	1-1/4	1-15/32	97-3106A-16S-1P-ND	16.72	13.15
			Plug with Socket	1-1/4	1-15/32	97-3106A-16S-1S-ND	18.59	14.37
4			Recept. with Pins	1-9/32	1-15/32	97-3102A-16S-1P-ND	15.23	11.59
			Recept. with Socket	1-9/32	1-15/32	97-3102A-16S-1S-ND	14.09	10.83
1	16S-8	5/16	Plug with Pins	1-1/4	1-15/32	97-3106A-16S-8P-ND	20.09	15.80
			Plug with Socket	1-1/4	1-15/32	97-3106A-16S-8S-ND	20.81	16.37
4			Recept. with Pins	1-9/32	1-15/32	97-3102A-16S-8P-ND	15.04	11.45
			Recept. with Socket	1-9/32	1-15/32	97-3102A-16S-8S-ND	15.57	11.85
1	18-1	10/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-1P-ND	20.96	16.97
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-1S-ND	23.18	18.22
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-1P-ND	25.48	20.77
			Plug with Socket	1-11/32	2-5/32	97-3108B-18-1S-ND	34.00	27.71
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-1P-ND	16.04	12.62
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-1S-ND	17.75	13.72
1	18-4	4/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-4P-ND	17.67	13.66
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-4S-ND	19.05	14.73
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-4P-ND	22.49	17.68
			Plug with Socket	1-11/32	2-5/32	97-3108B-18-4S-ND	22.84	18.62
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-4P-ND	15.04	11.45
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-4S-ND	15.91	12.24
1	18-8	8/1#12, 8/7#16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-8P-ND	25.94	21.00
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-8S-ND	22.62	17.78
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-8P-ND	31.54	25.71
			Plug with Socket	1-11/32	2-5/32	97-3108B-18-8S-ND	33.56	27.36
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-8P-ND	16.04	12.62
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-8S-ND	21.67	16.75
1	18-10	4/12	Plug with Pins	1-11/32	1-31/32	97-3106A-18-10P-ND	20.18	16.34
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-10S-ND	22.62	17.78
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-10P-ND	24.74	20.17
			Plug with Socket	1-11/32	2-5/32	97-3108B-18-10S-ND	33.56	27.36
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-10P-ND	18.39	14.47
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-10S-ND	21.67	16.75
1	18-11	5/12	Plug with Pins	1-11/32	1-31/32	97-3106A-18-11P-ND	24.99	20.23
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-11S-ND	20.96	16.97
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-11P-ND	24.74	20.17
			Plug with Socket	1-11/32	2-5/32	97-3108B-18-11S-ND	25.48	20.77
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-11P-ND	14.85	11.68
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-11S-ND	19.84	15.61
1	18-12	6/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-12P-ND	23.54	19.06
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-12S-ND	24.99	20.23
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-12P-ND	23.46	19.12
			Plug with Socket	1-11/32	2-5/32	97-3108B-18-12S-ND	24.74	20.17
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-12P-ND	17.12	13.17
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-12S-ND	18.39	14.47
1	18-16	1/12	Plug with Pins	1-11/32	1-31/32	97-3106A-18-16P-ND	20.18	16.34
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-16S-ND	28.16	22.95
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-16P-ND	25.50	20.79
			Plug with Socket	1-11/32	2-5/32	97-3108B-18-16S-ND	29.42	23.98
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-16P-ND	17.96	13.81
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-16S-ND	18.13	14.01
1	18-19	10/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-19P-ND	27.48	22.40
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-19S-ND	28.94	22.74
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-19P-ND	33.16	27.03
			Plug with Socket	1-11/32	2-5/32	97-3108B-18-19S-ND	27.72	22.60
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-19P-ND	28.69	22.54
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-19S-ND	22.46	17.36
1	20-4	4/12	Plug with Pins	1-15/32	1-7/8	97-3106A-20-4P-ND	28.86	23.53
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-4S-ND	39.86	32.49
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-4P-ND	14.83	11.41
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-4S-ND	17.89	13.83
1	20-7	8/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-7P-ND	28.86	23.53
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-7S-ND	31.04	25.30
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-7P-ND	18.36	14.12
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-7S-ND	20.70	16.28
1	20-15	7/12	Plug with Pins	1-15/32	1-7/8	97-3106A-20-15P-ND	31.62	25.77
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-15S-ND	40.87	33.54
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-15P-ND	16.83	13.24
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-15S-ND	23.94	19.52
1	20-16	9/2#12, 9/7#16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-16P-ND	31.64	25.79
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-16S-ND	27.46	22.38
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-16P-ND	17.51	13.54
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-16S-ND	19.05	14.73
1	20-27	14/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-27P-ND	26.38	21.50
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-27S-ND	28.30	23.07
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-27P-ND	22.13	17.11
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-27S-ND	24.21	19.61
1	20-29	17/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-29P-ND	28.04	22.86
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-29S-ND	31.06	25.32
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-29P-ND	23.67	19.16
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-29S-ND	27.11	21.31
1	22-14	19/16	Plug with Pins	1-19/32	1-31/32	97-3106A-22-14P-ND	36.38	29.65
			Plug with Socket	1-19/32	1-31/32	97-3106A-22-14S-ND	41.28	33.65
4	22-14	19/16	Recept. with Pins	1-5/8	1-63/64	97-3102A-22-14P-ND	25.94	21.00
			Recept. with Socket	1-5/8	1-63/64	97-3102A-22-14S-ND	24.30	19.81
1	22-19	14/16	Plug with Pins	1-19/32	1-31/32	97-3106A-22-19P-ND	28.82	23.49
			Plug with Socket	1-19/32	1-31/32	97-3106A-22-19S-ND	29.38	23.95
4			Recept. with Pins	1-5/8	1-63/64	97-3102A-22-19P-ND	25.45	20.61
			Recept. with Socket	1-5/8	1-63/64	97-3102A-22-19S-ND	25.94	21.00
1	24-7	16/2 #12, 16/14 #16	Plug with Pins	1-23/32	2-1/4	97-3106A-24-7P-ND	67.82	55.65
			Plug with Socket	1-23/32	2-1/4	97-3106A-24-7S-ND	73.44	60.26
4	24-7	16/2 #12, 16/14 #16	Recept. with Pins	1-3/4	2-1/4	97-3102A-24-7P-ND	58.12	47.37
			Recept. with Socket	1-3/4	2-1/4	97-3102A-24-7S-ND	52.76	43.00
1	24-28	24/16	Plug with Pins	1-23/32	2-1/4	97-3106A-24-28P-ND	70.94	58.21
			Plug with Socket	1-23/32	2-1/4	97-3106A-24-28S-ND	99.41	81.57
4			Recept. with Pins	1-3/4	2-1/4	97-3102A-24-28P-ND	63.20	51.51
			Recept. with Socket	1-3/4	2-1/4	97-3102A-24-28S-ND	74.04	60.35
1	28-11	22/4#12, 22/18#16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-11P-ND	95.12	78.05
			Plug with Socket	1-31/32	2-1/4	97-3106A-28-11S-ND	112.10	91.45
4			Recept. with Pins	2	2-1/4	97-3102A-28-11P-ND	69.36	56.53
			Recept. with Socket	2	2-1/4	97-3102A-28-11S-ND	70.20	57.60
1	28-16	20/16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-16P-ND	79.13	64.93
			Plug with Socket	1-31/32	2-1/4	97-3106A-28-16S-ND	99.26	81.44
4			Recept. with Pins	2	2-1/4	97-3102A-28-16P-ND	72.76	59.30
			Recept. with Socket	2	2-1/4	97-3102A-28-16S-ND	73.36	59.79
1	28-21	37/16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-21P-ND	55.80	45.53
			Plug with Socket	1-31/32	2-1/4	97-3106A-28-21S-ND	62.89	51.31
4			Recept. with Pins	2	2-1/4	97-3102A-28-21P-ND	34.89	28.63
			Recept. with Socket	2	2-1/4	97-3102A-28-21S-ND	50.88	41.75

Accessories for 97 Series Connectors

Fig.	Shell Size-Insert Arrange-ment No.	Description	Dimensions (Inches)			Digi-Key Part No.	Price Each	
			A	B	C		1	10
6	10SL, 12S	Cable Clamp	.842	.795	5/16	97-3057-1004-ND	6.97	5.10
7		Bushing	.374	2.875	.210	97-79-513-3-ND◆	1.44	.89
7		Bushing	.500	2.750	.302	97-79-513-4-ND◆	1.61	1.04
—		Cable Clamp with Bushing	—	—	—	97-3057-1004-1-ND§	8.18	6.05
6	12SL, 14S	Cable Clamp	.995	.850	7/16	97-3057-1007-ND	5.82	4.26
7		Bushing	.614	2.625	.427	97-79-513-6-ND◆	1.65	1.06
—		Cable Clamp with Bushing	—	—	—	97-3057-1007-1-ND	8.35	6.18
6	16,16S	Cable Clamp	1.120	.920	9/16	97-3057-1008-ND	7.45	5.52
7		Bushing	.739	2.500	.552	97-79-513-8-ND◆	1.44	.89
—		Cable Clamp with Bushing	—	—	—	97-3057-1008-1-ND	8.75	6.30
6	18	Cable Clamp	1.216	.920	5/8	97-3057-1010-ND	6.55	4.79
7		Bushing	.889	2.375	.615	97-79-513-10-ND◆	1.44	.89
—		Cable Clamp with Bushing	—	—	—	97-3057-1010-1-ND	7.43	5.50
6	20,22	Cable Clamp	1.403	.927	3/4	97-3057-1012-ND	6.55	4.79
7		Bushing	1.084	2.250	.740	97-79-513-12-ND◆	1.61	1.04
—		Cable Clamp with Bushing	—	—	—	97-3057-1012-1-ND	7.60	5.63
6	24,28	Cable Clamp	1.683	1.015	15/16	97-3057-1016-ND	7.20	5.27
7		Bushing	1.084	2.250	.740	97-79-513-12-ND◆	1.61	1.04
7		Bushing	1.309	2.125	.927	97-79-513-16-ND◆	2.02	1.29
—		Cable Clamp with Bushing	—	—	—	97-3057-1016-1-ND†	9.31	6.99

◆ ***RoHS Compliant***
§ When clamp and bushing are ordered together for shell sizes 10SL and 12S, bushing 97-79-513-4 will be furnished.
† Two telescoping bushings (97-79-513-12 and 97-79-513-16) are furnished with each cable clamp for shell sizes 24 and 28.

Plugs and Receptacles

RoHS COMPLIANT

Low cost, general duty, non-environmental connectors. Available in either A solid or B split shell styles. Used extensively in the machine tool industry, welding industry and numerous other commercial applications. **Features:** • Single key/keyway polarization • Threaded coupling • Hard dielectric inserts made of diallyl-phthalate • Aluminum alloy components with a black zinc alloy finish • Contacts are silver plated solder cups • Cable clamps are zinc alloy with black zinc alloy finish

E115497 LR69183

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches)		Digi-Key Part No.	Price Each	
				A	B		1	10
1	10SL-3	3/16	Plug with Socket	7/8	1-3/8	97-3106A-10SL-3S(946)-ND	36.30	25.41
2			Plug with Socket	7/8	1-1/2	97-3108B-10SL-3S(946)-ND	56.95	37.17
3			Recept. with Pins	1	1-9/32	97-3101A-10SL-3P(946)-ND	23.48	16.44
4			Recept. with Pins	3/4	1-9/32	97-3102A-10SL-3P(946)-ND	11.09	8.32
1	10SL-4	2/16	Plug with Socket	7/8	1-3/8	97-3106A-10SL-4S(946)-ND	32.45	22.72
2			Plug with Socket	7/8	1-1/2	97-3108B-10SL-4S(946)-ND	57.25	40.08
3			Recept. with Pins	1	1-9/32	97-3101A-10SL-4P(946)-ND	60.20	42.14
4			Recept. with Pins	1	1-9/32	97-3102A-10SL-4P(946)-ND	26.94	16.17
1	12S-3	2/16	Plug with Pins	1	1-7/16	97-3106A-12S-3P(946)-ND	17.46	13.43
			Plug with Socket	1	1-7/16	97-3106A-12S-3S(946)-ND	18.72	14.40
4			Recept. with Pins	1-3/32	1-15/32	97-3102A-12S-3P(946)-ND	11.55	8.32
			Recept. with Socket	1-3/32	1-15/32	97-3102A-12S-3S(946)-ND	11.95	8.97
1	14S-1	3/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-1P(946)-ND	19.76	15.54
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-1S(946)-ND	20.22	15.90
5			Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-1P(946)-ND	19.76	15.54
			Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-1S(946)-ND	20.22	15.90
3			Recept. with Pins	7/8	1-15/32	97-3101A-14S-1P(946)-ND	24.31	18.79
			Recept. with Socket	7/8	1-15/32	97-3101A-14S-1S(946)-ND	23.91	18.48
1	14S-2	4/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-2P(946)-ND	19.60	15.42
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-2S(946)-ND	21.23	16.70
5			Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-2P(946)-ND	21.93	17.25
			Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-2S(946)-ND	23.83	18.42
3			Recept. with Pins	7/8	1-15/32	97-3101A-14S-2P(946)-ND	22.81	17.63
			Recept. with Socket	7/8	1-15/32	97-3101A-14S-2S(946)-ND	24.44	19.79

(Continued)

Circular Threaded Connectors — 97 Series

with Solder Contacts (MIL-C-5015 Type)

Plugs and Receptacles *(Cont.)*

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches)		Digi-Key Part No.	Price Each	
				A	B		1	10
1	14S-5	5/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-5P(946)-ND	17.71	13.93
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-5S(946)-ND	22.75	17.58
5			Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-5P(946)-ND	21.93	17.25
			Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-5S(946)-ND	22.75	17.58
3			Recept. with Pins	7/8	1-15/32	97-3101A-14S-5P(946)-ND	24.91	20.17
			Recept. with Socket	7/8	1-15/32	97-3101A-14S-5S(946)-ND	25.20	20.40
1	14S-6	6/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-6P(946)-ND	22.75	17.58
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-6S(946)-ND	18.50	14.30
2			Plug with Pins	1-1/8	1-23/32	97-3108B-14S-6P(946)-ND	24.44	19.79
			Plug with Socket	1-1/8	1-23/32	97-3108B-14S-6S(946)-ND	25.12	20.34
5			Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-6P(946)-ND	22.75	17.58
			Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-6S(946)-ND	22.90	17.70
3			Recept. with Pins	7/8	1-15/32	97-3101A-14S-6P(946)-ND	28.12	22.10
			Recept. with Socket	7/8	1-15/32	97-3101A-14S-6S(946)-ND	25.83	20.91
1	16S-1	7/16	Plug with Pins	1-1/4	1-15/32	97-3106A-16S-1P(946)-ND	22.75	17.58
			Plug with Socket	1-1/4	1-15/32	97-3106A-16S-1S(946)-ND	25.34	19.59
4			Recept. with Pins	1-9/32	1-15/32	97-3102A-16S-1P(946)-ND	16.31	12.55
			Recept. with Socket	1-9/32	1-15/32	97-3102A-16S-1S(946)-ND	19.17	14.74
1	16S-8	5/16	Plug with Pins	1-1/4	1-15/32	97-3106A-16S-8P(946)-ND	22.11	17.39
			Plug with Socket	1-1/4	1-15/32	97-3106A-16S-8S(946)-ND	22.88	17.68
4			Recept. with Pins	1-9/32	1-15/32	97-3102A-16S-8P(946)-ND	16.54	12.59
			Recept. with Socket	1-9/32	1-15/32	97-3102A-16S-8S(946)-ND	16.76	12.89
1	18-1	10/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-1P(946)-ND	28.48	22.38
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-1S(946)-ND	24.26	19.78
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-1P(946)-ND	21.80	17.15
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-1S(946)-ND	24.20	18.70
1	18-4	4/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-4P(946)-ND	24.00	18.55
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-4S(946)-ND	24.74	20.03
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-4P(946)-ND	16.98	11.89
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-4S(946)-ND	17.46	13.43
1	18-8	8/1#12, 8/7#16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-8P(946)-ND	28.48	22.38
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-8P(946)-ND	34.68	28.27
4			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-8S(946)-ND	23.83	18.42
1	18-10	4/12	Plug with Pins	1-11/32	1-31/32	97-3106A-18-10P(946)-ND	27.41	21.54
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-10S(946)-ND	29.30	23.88
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-10P(946)-ND	20.22	15.90
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-10S(946)-ND	23.83	18.42
1	18-11	5/12	Plug with Pins	1-11/32	1-31/32	97-3106A-18-11P(946)-ND	27.41	21.54
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-11S(946)-ND	28.48	22.38
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-11P(946)-ND	20.22	15.90
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-11S(946)-ND	21.80	17.15
1	18-19	10/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-19P(946)-ND	37.44	30.52
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-19S(946)-ND	30.26	24.67
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-19P(946)-ND	30.04	24.49
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-19S(946)-ND	24.66	19.06
1	20-4	4/12	Plug with Pins	1-15/32	1-7/8	97-3106A-20-4P(946)-ND	31.72	25.86
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-4S(946)-ND	42.69	35.03
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-4P(946)-ND	16.58	10.82
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-4S(946)-ND	24.31	18.79
1	20-7	8/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-7P(946)-ND	31.72	25.86
4			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-7S(946)-ND	22.75	17.58
1	20-16	9/2#12, 9/7#16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-16P(946)-ND	34.82	28.38
4			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-16S(946)-ND	24.51	18.94
1	20-27	14/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-27P(946)-ND	35.82	29.20
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-27S(946)-ND	38.48	31.37
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-27P(946)-ND	24.31	18.79
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-27S(946)-ND	21.48	17.40
1	20-29	17/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-29P(946)-ND	38.16	31.10
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-29S(946)-ND	42.22	34.41
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-29P(946)-ND	26.04	21.08
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-29S(946)-ND	29.78	23.40
1	22-14	19/16	Plug with Pins	1-19/32	1-31/32	97-3106A-22-14P(946)-ND	39.94	32.56
			Plug with Socket	1-19/32	1-31/32	97-3106A-22-14S(946)-ND	44.27	36.32
4			Recept. with Pins	1-5/8	1-63/64	97-3102A-22-14P(946)-ND	28.48	22.38
			Recept. with Socket	1-5/8	1-63/64	97-3102A-22-14S(946)-ND	33.02	26.92
1	22-19	14/16	Plug with Socket	1-19/32	1-31/32	97-3106A-22-19S(946)-ND	39.94	32.56
4			Recept. with Pins	1-5/8	1-63/64	97-3102A-22-19P(946)-ND	27.99	22.00
1	24-28	24/16	Plug with Pins	1-23/32	2-1/4	97-3106A-24-28P(946)-ND	96.45	79.14
4			Recept. with Socket	1-3/4	2-1/4	97-3102A-24-28S(946)-ND	81.48	66.41
1	28-11	22/4#12, 22/18#16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-11P(946)-ND	104.48	85.73
			Plug with Socket	1-31/32	2-1/4	97-3106A-28-11S(946)-ND	123.12	100.44
4			Recept. with Pins	2	2-1/4	97-3102A-28-11P(946)-ND	76.24	62.14
			Recept. with Socket	2	2-1/4	97-3102A-28-11S(946)-ND	95.47	78.34
1	28-16	20/16	Plug with Socket	1-31/32	2-1/4	97-3106A-28-16S(946)-ND	109.04	89.48
4			Recept. with Pins	2	2-1/4	97-3102A-28-16P(946)-ND	79.88	65.11
1	28-21	37/16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-21P(946)-ND	61.28	49.99
4			Recept. with Socket	2	2-1/4	97-3102A-28-21S(946)-ND	55.91	45.88

Accessories For 97 Series Connectors

Fig.	Shell Size-Insert Arrange-ment No.	Description	Dimensions (Inches)			Digi-Key Part No.	Price Each	
			A	B	C		1	10
					Cable Clamps			
6	10SL,	Cable Clamp	.842	.795	5/16	97-3057-1004(621)-ND	7.63	5.65
—	12S	Cable Clamp with Bushing	—	—	—	97-3057-1004-1(621)-ND*	9.33	6.72
6	12SL,	Cable Clamp	.995	.850	7/16	97-3057-1007(621)-ND	6.66	4.87
—	14S	Cable Clamp with Bushing	—	—	—	97-3057-1007-1(621)-ND	9.43	6.79
6	16,	Cable Clamp	1.120	.920	9/16	97-3057-1008(621)-ND	8.53	6.31
—	16S	Cable Clamp with Bushing	—	—	—	97-3057-1008-1(621)-ND	11.83	8.88
6	18	Cable Clamp	1.216	.920	5/8	97-3057-1010(621)-ND	7.46	5.46
—		Cable Clamp with Bushing	—	—	—	97-3057-1010-1(621)-ND	8.50	6.29
6	20, 22	Cable Clamp	1.403	.927	3/4	97-3057-1012(621)-ND	7.44	5.44
—		Cable Clamp with Bushing	—	—	—	97-3057-1012-1(621)-ND	8.63	6.39
6	24, 28	Cable Clamp	1.683	1.015	15/16	97-3057-1016(621)-ND	7.85	5.81
—		Cable Clamp with Bushing	—	—	—	97-3057-1016-1(621)-ND†	13.18	9.89
					Protective Caps			
10	16	Plug Cap	1.000	0.844	—	97-60-16P(621)-ND	9.89	7.42
11	16	Recept. Cap	1.125	0.434	—	97-60-16(621)-ND	6.97	5.10
10	18	Plug Cap	1.125	0.844	—	97-60-18P(621)-ND	11.96	9.10
11	18	Recept. Cap	1.313	0.434	—	97-60-18(621)-ND	7.53	5.57
10	20	Plug Cap	1.250	0.844	—	97-60-20P(621)-ND	24.30	19.67
11	20	Recept. Cap	1.434	0.434	—	97-60-20(621)-ND	9.28	6.68
10	22	Plug Cap	1.375	0.844	—	97-60-22P(621)-ND	24.99	20.23
11	22	Recept. Cap	1.563	0.434	—	97-60-22(621)-ND	11.57	8.68
10	24	Plug Cap	1.500	0.844	—	97-60-24P(621)-ND	29.86	23.47
11	24	Recept. Cap	1.688	0.434	—	97-60-24(621)-ND	15.76	11.99
10	28	Plug Cap	1.750	0.844	—	97-60-28P(621)-ND	19.34	15.21
11	28	Recept. Cap	1.923	0.500	—	97-60-28(621)-ND	15.27	11.62
10	32	Plug Cap	2.000	0.844	—	97-60-32P(621)-ND	43.84	35.97
11	32	Recept. Cap	2.188	0.500	—	97-60-32(621)-ND	22.51	17.40

* When clamp and bushing are ordered together for shell sizes 10SL and 12S, bushing 97-79-513-4 will be furnished.
†Two telescoping bushings (97-79-513-12 and 97-79-513-16) are furnished with each cable clamp for shell sizes 24 and 28.

MS/Standard Cylindrical

with Solder Contacts (MIL-C-5015 Series 1 Type)

Fig.	Shell Size-Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches)		Digi-Key Part No.	Price Each	
				A	B		1	10
1	10SL-3	3/16	Plug with Socket	.946	2.129	MS3106E-10SL-3S-ND*	19.12	12.48
8		3/16	Plug with Socket	.946	2.129	MS3106F-10SL-3S-ND†	18.72	12.22
9		3/16	Plug with Socket	.946	1.057	MS3106R-10SL-3S-ND‡	18.20	12.74
4		3/16	Recept. with Pins	1.000	.297	MS3102E-10SL-3P-ND*	10.12	5.74
4		3/16	Recept. with Pins	1.000	.297	MS3102R-10SL-3P-ND‡	8.27	4.70
1	10SL-4	2/16	Plug with Socket	.946	.937	MS3106A-10SL-4S-ND	15.68	10.98
1		2/16	Plug with Socket	.946	2.129	MS3106E-10SL-4S-ND*	20.52	13.40
8		2/16	Plug with Socket	.946	2.129	MS3106F-10SL-4S-ND†	18.10	12.67
4		2/16	Recept. with Pins	1.000	.297	MS3102E-10SL-4P-ND*	9.95	5.65
4		2/16	Recept. with Pins	1.000	.297	MS3102R-10SL-4P-ND‡	7.97	4.53
8	14S-2	4/16	Plug with Pins	1.123	2.201	MS3106F-14S-2P-ND†	17.35	12.15
1		4/16	Plug with Socket	1.123	.937	MS3106A-14S-2S-ND	13.55	9.49
8		4/16	Plug with Socket	1.123	2.201	MS3106F-14S-2S-ND†	19.45	12.70
4		4/16	Recept. with Pins	1.188	.297	MS3102E-14S-2P-ND*	10.17	6.11
4		4/16	Recept. with Socket	1.188	.297	MS3102E-14S-2S-ND*	10.68	6.41
4		4/16	Recept. with Pins	1.188	.297	MS3102R-14S-2P-ND‡	9.85	5.59
4		4/16	Recept. with Socket	1.188	.297	MS3102R-14S-2S-ND‡	9.45	5.67
1	14S-5	5/16	Plug with Pins	1.123	.937	MS3106A-14S-5P-ND	14.93	10.45
1		5/16	Plug with Socket	1.123	.937	MS3106A-14S-5S-ND	17.73	12.41
4		5/16	Recept. with Pins	1.188	.297	MS3102E-14S-5P-ND*	9.45	5.67
4		5/16	Recept. with Pins	1.188	.297	MS3102R-14S-5P-ND‡	9.66	5.80
1	14S-6	6/16	Plug with Socket	1.123	.937	MS3106A-14S-6S-ND	13.53	9.47
8		6/16	Plug with Socket	1.123	2.201	MS3106F-14S-6S-ND†	18.86	12.31
4		6/16	Recept. with Pins	1.188	.297	MS3102E-14S-6P-ND*	9.31	5.29
4		6/16	Recept. with Socket	1.188	.297	MS3102E-14S-6S-ND*	12.72	7.64
4		6/16	Recept. with Pins	1.188	.297	MS3102R-14S-6P-ND‡	9.90	5.94
4		6/16	Recept. with Socket	1.188	.297	MS3102R-14S-6S-ND‡	11.61	6.97
8	14S-7	3/16	Plug with Socket	1.123	2.201	MS3106F-14S-7S-ND†	21.99	14.36
1	16S-1	7/16	Plug with Socket	1.250	.937	MS3106A-16S-1S-ND	17.95	12.57
8		7/16	Plug with Socket	1.250	2.201	MS3106F-16S-1S-ND†	28.01	17.93
4		7/16	Recept. with Pins	1.281	.297	MS3102E-16S-1P-ND*	11.97	7.19
4		7/16	Recept. with Pins	1.281	.297	MS3102R-16S-1P-ND‡	11.34	6.81
1	16-10	3/12	Plug with Socket	1.250	1.124	MS3106A-16-10S-ND	20.35	13.29
8		3/12	Plug with Socket	1.250	2.524	MS3106F-16-10S-ND†	27.74	17.76
4	16-11	2/12	Recept. with Pins	1.281	.484	MS3102R-16-11P-ND‡	10.41	6.25
4	18-1	10/16	Recept. with Pins	1.375	.453	MS3102E-18-1P-ND*	12.23	8.56
4		10/16	Recept. with Pins	1.375	.453	MS3102R-18-1P-ND‡	11.43	8.00
1		10/16	Plug with Socket	1.333	1.219	MS3106A-18-1S-ND	21.02	13.72
4	18-11	5/12	Recept. with Pins	1.375	.453	MS3102E-18-11P-ND*	12.30	8.61
4	20-27	14/16	Recept. with Pins	.453	1.500	MS3102R-20-27P-ND‡	12.18	8.53
4	22-14	19/16	Recept. with Pins	.453	1.625	MS3102E-22-14P-ND*	17.83	12.48
4	22-19	14/16	Recept. with Socket	.453	1.625	MS3102E-22-19S-ND*	18.48	12.94
4	22-22	4/8	Recept. with Pins	.453	1.625	MS3102E-22-22P-ND*	19.20	13.44
4	24-11	3/#8 6/#12	Recept. with Pins	.453	1.750	MS3102R-24-11P-ND‡	17.08	11.96
9			Plug with Socket	1.291	1.715	MS3106R-24-11S-ND‡	30.08	19.26

* Environmental resisting † Environmental resisting with strain relief (MS part number only)
‡ Lightweight environmental resisting

Amphe-PPM Quick Disconnect Connectors

Amphe-PPM is a rapid mate, push/pull connector which provides positive mating in limited space and ease of use. High performance signal and power interconnection solution, is ideally suited to many commercial and industrial applications including, medical equipment, instrumentation/test and measurement, and communication equipment.

Features:
• Non-reflective nickel finish • IP67 rated • Designed to IEC 61984 • UL94V-0 inserts • Solder contacts • Non-magnetic

Operating Temperature: -40°C ~ 100°C

Fig. 1

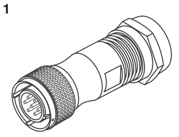

Fig. 2

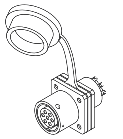

Fig. 3

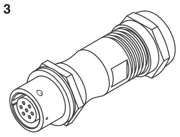

Shell Size (mm)	No. of Contacts	Contact Diameter (mm)	Cable Diameter (mm)	Description	Digi-Key Part No.		Price Each	
						1	10	50
Fig. 1 — Straight Plug								
10	3	1.0	3.0 ~ 6.5	with Pins	APSCPB6E2-ND	34.33	28.01	25.30
	5	0.8		with Pins	APSCPD6E2-ND	36.54	29.81	26.93
	3	1.0		with Socket	APSCSB6E2-ND	34.33	28.01	25.30
	5	0.8		with Socket	APSCSD6E2-ND	36.54	29.81	26.93
12	2	1.6	4.0 ~ 8.0	with Pins	APSDPA6E2-ND	36.82	30.04	27.14
	7	1		with Pins	APSDPF6E2-ND	40.13	32.74	29.57
	2	1.6		with Socket	APSDSA6E2-ND	36.82	30.04	27.14
	7	1		with Socket	APSDSF6E2-ND	40.13	32.74	29.57
16	2	2.5	7.0 ~ 12.0	with Pins	APSEPB6E2-ND	43.66	36.11	33.04
	4	1.5		with Pins	APSEPF6E2-ND	45.55	37.67	34.47
	12	1		with Pins	APSEPJ6E2-ND	47.72	39.77	37.12
	2	2.5		with Socket	APSESB6E2-ND	43.66	36.11	33.04
	4	1.5		with Socket	APSESF6E2-ND	45.55	37.67	34.47
	12	1		with Socket	APSESJ6E2-ND	47.72	39.77	37.12
18	3	2.5	10.0 ~ 14.0	with Pins	APSFPA6E2-ND	52.72	43.94	41.01
	5	1.5		with Pins	APSFPB6E2-ND	56.92	47.43	44.27
	8	1.5 (3 Contacts), 1 (5 Contacts)		with Pins	APSFPC6E2-ND	57.96	48.30	45.08
	5	1		with Pins	APSFPD6E2-ND	60.43	51.80	47.48
	3	2.5		with Socket	APSFSA6E2-ND	52.70	43.92	41.00
	5	1.5	10.0 ~ 14.0	with Socket	APSFSB6E2-ND	56.92	47.43	44.27
	8	1.5 (3 Contacts), 1 (5 Contacts)			APSFSC6E2-ND	57.96	48.30	45.08
	5	1			APSFSD6E2-ND	60.43	51.80	47.48
Fig. 2 — Square Flange Receptacle								
10	3	1.0	—	with Pins	APSCPB2-ND	24.48	19.96	17.75
	5	0.8		with Pins	APSCPD2-ND	26.13	21.44	19.10
	3	1.0		with Socket	APSCSB2-ND	24.48	19.96	17.75
	5	0.8		with Socket	APSCSD2-ND	26.13	21.44	19.10
12	2	1.6	—	with Pins	APSDPA2-ND	25.36	20.67	18.39
	7	1		with Pins	APSDPF2-ND	28.14	23.09	20.57
	2	1.6		with Socket	APSDSA2-ND	25.36	20.67	18.39
	7	1		with Socket	APSDSF2-ND	28.14	23.09	20.57
16	2	2.5	—	with Pins	APSEPB2-ND	30.99	25.43	22.65
	4	1.5		with Pins	APSEPF2-ND	32.96	27.04	24.09
	12	1		with Pins	APSEPJ2-ND	36.01	29.38	26.53
	2	2.5		with Socket	APSESB2-ND	30.99	25.43	22.65
	4	1.5		with Socket	APSESF2-ND	32.94	27.03	24.07
	12	1		with Socket	APSESJ2-ND	36.01	29.38	26.53
18	3	2.5	—	with Pins	APSFPA2-ND	33.23	27.27	24.29
	5	1.5		with Pins	APSFPB2-ND	36.80	30.03	27.12
	8	1.5 (3 Contacts), 1 (5 Contacts)		with Pins	APSFPC2-ND	37.92	30.94	27.95
	5	1		with Pins	APSFPD2-ND	41.24	34.11	31.21
	3	2.5		with Socket	APSFSA2-ND	33.23	27.27	24.29
	5	1.5	—	with Socket	APSFSB2-ND	36.80	30.03	27.12
	8	1.5 (3 Contacts), 1 (5 Contacts)			APSFSC2-ND	37.92	30.94	27.95
	5	1			APSFSD2-ND	41.24	34.11	31.21
Fig. 3 — Jam Nut Receptacle								
10	3	1.0	3.0 ~ 6.5	with Pins	APSCPB7E2-ND	27.85	22.85	20.35
	5	0.8		with Pins	APSCPD7E2-ND	30.13	24.72	22.02
	3	1.0		with Socket	APSCSB7E2-ND	27.85	22.85	20.35
	5	0.8		with Socket	APSCSD7E2-ND	30.13	24.72	22.02
12	2	1.6	4.0 ~ 8.0	with Pins	APSDPA7E2-ND	31.26	25.65	22.85
	7	1		with Pins	APSDPF7E2-ND	33.78	27.56	24.90
	2	1.6		with Socket	APSDSA7E2-ND	31.26	25.65	22.85
	7	1		with Socket	APSDSF7E2-ND	33.78	27.56	24.90
16	2	2.5	7.0 ~ 12.0	with Pins	APSEPB7E2-ND	36.54	29.81	26.93
	4	1.5		with Pins	APSEPF7E2-ND	37.64	30.71	27.74
	12	1		with Pins	APSEPJ7E2-ND	39.89	32.99	30.19
	2	2.5		with Socket	APSESB7E2-ND	36.54	29.81	26.93
	4	1.5		with Socket	APSESF7E2-ND	37.66	30.73	27.75
	12	1		with Socket	APSESJ7E2-ND	39.89	32.99	30.19
18	3	2.5	10.0 ~ 14.0	with Pins	APSFPA7E2-ND	40.43	32.99	29.80
	5	1.5		with Pins	APSFPB7E2-ND	42.59	35.23	32.23
	8	1.5 (3 Contacts), 1 (5 Contacts)		with Pins	APSFPC7E2-ND	43.66	36.11	33.04
	5	1		with Pins	APSFPD7E2-ND	45.82	37.90	34.68
	3	2.5		with Socket	APSFSA7E2-ND	40.43	32.99	29.80
	5	1.5	10.0 ~ 14.0	with Socket	APSFSB7E2-ND	42.59	35.23	32.23
	8	1.5 (3 Contacts), 1 (5 Contacts)			APSFSC7E2-ND	43.66	36.11	33.04
	5	1			APSFSD7E2-ND	45.82	37.90	34.68

Amphenol®

Amphenol-Tuchel Electronics GmbH

eco/mate™ Circular Connectors – IP 65/IP 67 (Replaces C16-1 Series)

VDE 1780,1781 GL 14108/84 S 00.0394 RoHS COMPLIANT E 63093 48932

Features: • New screw connection with clamping ring • Strain relief and seal in a single element • Ergonomically shaped handle for a better grip and safer handling • The eco/mate program is compatible and interchangeable with the C16-1 Series ***Note:* • *Male cable connectors mate with female cable connectors* • *Receptacles do not mate with each other***

General Characteristics		**3 + PE**	**6 + PE**	
		Screw	**Solder**	**Crimp**
Electrical:	**Rated Insulation Voltage** **Current Carrying Capacity** **Contact Resistance**	400V 16A / 55°C ≤5mΩ	250V 10A / 55°C ≤5mΩ	250V 13A / 55°C ≤5mΩ
Climate:	**Operating Temperature**	-40°C ~ 100°C	-40°C ~ 125°C	-40°C ~ 125°C
Mechanical:	**IP-Degree of Protection**	IP 65 / IP 67	IP 65 / IP 67	IP 65 / IP 67
Materials:	**Contact Plating**	Silver plated	Silver plated	Silver plated
Other:	**Wire Gauge** **Color**	14 AWG Black	20 AWG Black	26-16 AWG Black

Fig. 1

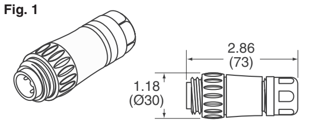

Fig. 2

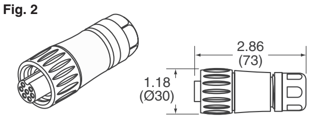

Fig. 3

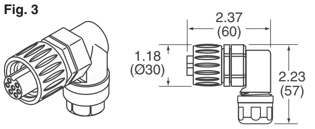

Fig. 4

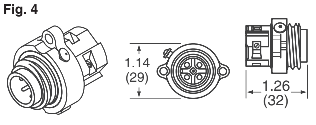

Fig. 5

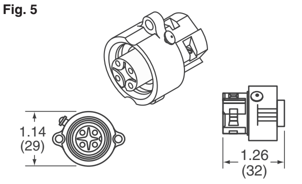

Fig. 6

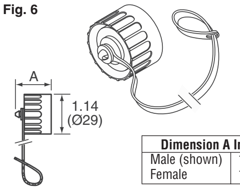

Dimension A Inch (mm)	
Male (shown)	1.00 (25.5)
Female	1.23 (31.3)

Fig.	No. of Pos.	Backshell Color	Termination	Contact Plating	Digi-Key Part No.	Price Each			Amphenol-Tuchel Part No.
						1	10	50	
Male — Straight Cable Connectors									
1	3+PE	Black	Screw	Silver	361-1078-ND	10.17	8.61	7.24	C016 20H003 100 12
	3+PE	Blue	Screw	Silver	361-1341-ND	10.35	8.76	7.37	C016 20H003 100 10
	3+PE	Black	Screw	Gold	361-1343-ND	11.86	10.98	9.85	C016 20H003 200 12
	3+PE	Blue	Screw	Gold	361-1342-ND	11.86	10.98	9.85	C016 20H003 200 10
	6+PE	Black	Solder	Silver	361-1079-ND	9.82	8.54	7.69	C016 30H006 100 12
	6+PE	Blue	Solder	Silver	361-1348-ND	9.94	8.64	7.78	C016 30H006 100 10
	6+PE	Black	Solder	Gold	361-1350-ND	13.36	12.36	11.09	C016 30H006 200 12
	6+PE	Blue	Solder	Gold	361-1349-ND	13.36	12.36	11.09	C016 30H006 200 10
	6+PE	Black	Crimp	No Contacts	361-1080-ND	6.29	5.21	4.34	C016 10H006 000 12
Male — Straight Cable Connectors with Internal Strain Reliefs									
1	3+PE	Black	Screw	Silver	361-1345-ND	10.95	9.27	7.79	C016 20H003 110 12
	3+PE	Blue	Screw	Silver	361-1344-ND	11.00	9.31	7.83	C016 20H003 110 10
	3+PE	Black	Screw	Gold	361-1347-ND	12.64	11.70	10.50	C016 20H003 210 12
	3+PE	Blue	Screw	Gold	361-1346-ND	12.64	11.70	10.50	C016 20H003 210 10
	6+PE	Black	Solder	Silver	361-1352-ND	10.86	9.44	8.50	C016 30H006 110 12
	6+PE	Blue	Solder	Silver	361-1351-ND	10.86	9.44	8.50	C016 30H006 110 10
	6+PE	Black	Solder	Gold	361-1354-ND	14.12	13.07	11.72	C016 30H006 210 12
	6+PE	Blue	Solder	Gold	361-1353-ND	14.12	13.07	11.72	C016 30H006 210 10
Male — Right Angle Cable Connectors									
—	3+PE	Blue	Screw	Silver	361-1355-ND	14.18	13.12	11.77	C016 20K003 100 10
	3+PE	Black	Screw	Silver	361-1356-ND	14.18	13.12	11.77	C016 20K003 100 12
	6+PE	Blue	Solder	Silver	361-1357-ND	14.92	13.81	12.39	C016 30K006 100 10
	6+PE	Black	Solder	Silver	361-1358-ND	14.92	13.81	12.39	C016 30K006 100 12
Female — Straight Cable Connectors									
2	3+PE	Blue	Screw	Silver	361-1361-ND	9.39	7.95	6.68	C016 20D003 100 10
	3+PE	Black	Screw	Silver	361-1084-ND	9.39	7.95	6.68	C016 20D003 100 12
2	3+PE	Blue	Screw	Gold	361-1362-ND	13.66	12.64	11.34	C016 20D003 200 10
	3+PE	Black	Screw	Gold	361-1363-ND	13.66	12.64	11.34	C016 20D003 200 12
	6+PE	Black	Solder	Silver	361-1085-ND	11.43	9.94	8.95	C016 30D006 100 12
	6+PE	Blue	Solder	Silver	361-1368-ND	11.43	9.94	8.95	C016 30D006 100 10
	6+PE	Blue	Solder	Gold	361-1369-ND	14.60	13.51	12.12	C016 30D006 200 10
	6+PE	Black	Solder	Gold	361-1370-ND	14.44	13.36	11.99	C016 30D006 200 12
	6+PE	Black	Crimp	No Contacts	361-1086-ND	6.96	5.76	4.80	C016 10D006 000 12
Female — Straight Cable Connectors with Internal Strain Relief									
2	3+PE	Blue	Screw	Silver	361-1364-ND	9.48	8.24	7.42	C016 20D003 110 10
	3+PE	Black	Screw	Silver	361-1365-ND	9.48	8.24	7.42	C016 20D003 110 12
	3+PE	Blue	Screw	Gold	361-1366-ND	14.94	13.82	12.41	C016 20D003 210 10
	3+PE	Black	Screw	Gold	361-1367-ND	14.94	13.82	12.41	C016 20D003 210 12
	6+PE	Blue	Solder	Silver	361-1371-ND	12.58	10.94	9.85	C016 30D006 110 10
	6+PE	Black	Solder	Silver	361-1372-ND	12.58	10.94	9.85	C016 30D006 110 12
	6+PE	Blue	Solder	Gold	361-1373-ND	15.20	14.06	12.62	C016 30D006 210 10
	6+PE	Black	Solder	Gold	361-1374-ND	15.10	13.97	12.54	C016 30D006 210 12
Female — Right Angle Cable Connectors									
3	3+PE	Blue	Screw	Silver	361-1375-ND	15.12	13.99	12.55	C016 20F003 100 10
	3+PE	Black	Screw	Silver	361-1087-ND	15.12	13.99	12.55	C016 20F003 100 12
	6+PE	Blue	Solder	Silver	361-1376-ND	17.00	15.73	14.11	C016 30F006 100 10
	6+PE	Black	Solder	Silver	361-1088-ND	17.00	15.73	14.11	C016 30F006 100 12
	6+PE	Black	Crimp	No Contacts	361-1089-ND	12.19	10.60	9.54	C016 10F006 000 12
Male — Receptacles									
4	3+PE	Black	Screw	Silver	361-1090-ND	7.88	6.67	5.61	C016 20C003 100 12
	3+PE	Black	Screw	Gold	361-1377-ND	11.87	10.32	9.29	C016 20C003 200 12
	6+PE	Black	Solder	Gold	361-1378-ND	12.32	11.40	10.23	C016 30C006 200 12
	6+PE	Black	Solder	Silver	361-1091-ND	7.52	6.96	6.25	C016 30C006 100 12
	6+PE	Black	Crimp	No Contacts	361-1092-ND	3.92	3.24	2.70	C016 10C006 000 12
Female — Receptacles									
5	3+PE	Black	Screw	Silver	361-1081-ND	8.81	7.46	6.28	C016 20G003 100 12
	3+PE	Black	Screw	Gold	361-1359-ND	12.00	11.10	9.96	C016 20G003 200 12
	6+PE	Black	Solder	Silver	361-1082-ND	9.68	8.42	7.58	C016 30G006 100 12
	6+PE	Black	Solder	Gold	361-1360-ND	13.04	12.07	10.83	C016 30G006 200 12
	6+PE	Black	Crimp	No Contacts	361-1083-ND	3.77	3.12	2.60	C016 10G006 000 12
Protective Caps									
6	For Male Receptacles....................				361-1093-ND†	6.90	5.72	4.76	C016 00U000 000 12
	For Male Cable Connectors..............				361-1094-ND†	7.60	6.29	5.24	C016 00U000 010 12
	For Female Receptacles				361-1148-ND	9.51	7.88	6.56	C016 00V000 000 12
	For Female Cable Connectors............				361-1147-ND	6.64	5.50	4.58	C016 00V000 010 12

† Black

Color	Digi-Key Part No.	Price Each			Amphenol-Tuchel Part No.
		1	10	50	
Colored Backshells					
Red	361-1379-ND	10.49	9.12	8.21	C016 20H003 800 11
White	361-1380-ND	10.49	9.12	8.21	C016 20H003 800 13
Yellow	361-1381-ND	10.49	9.12	8.21	C016 20H003 800 14
Orange	361-1382-ND	10.49	9.12	8.21	C016 20H003 800 15
Brown	361-1383-ND	10.49	9.12	8.21	C016 20H003 800 16
Green	361-1384-ND	10.49	9.12	8.21	C016 20H003 800 17
Violet	361-1385-ND	10.49	9.12	8.21	C016 20H003 800 18

Description	Digi-Key Part No.	Price Each			Amphenol-Tuchel Part No.
		1	10	50	
Contacts					
Pin, Silver Plated, 26 - 20AWG	361-1095-ND	1.09	.68	.45	VN01 016 0011 1
Pin, Silver Plated, 20 - 16AWG	361-1096-ND	1.08	.67	.45	VN01 016 0004 1
Socket, Silver Plated, 26 - 20AWG	361-1097-ND	1.56	.97	.65	VN02 016 0003 1
Socket, Silver Plated, 20 - 16AWG	361-1098-ND	1.78	1.11	.74	VN 02 016 0002 1
Tools					
Crimp Tool for C016	361-1149-ND		72.88/1		FG 0300 146 1
Crimp Tool, Long Handle	361-1099-ND		156.04/1		TA 0000
Crimp Tool, Short Handle	361-1100-ND		146.72/1		TA 0500
Die Set, 20 - 16AWG	361-1101-ND		171.76/1		TA 0000 163
Die Set, 26 - 20AWG	361-1102-ND		169.31/1		TA 0000 202
Locator for VN02 016 0003 1	361-1103-ND		30.17/1		TA 0001 146 0001
Locator for VN02 016 0002 1	361-1104-ND		27.58/1		TA 0002 146 0001
Locator for VN01 016 0004/0011 1	361-1105-ND		33.54/1		TA 0002 016 0001

Cable Assemblies

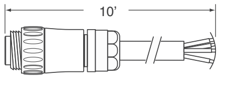

Features: • Sunlight resistant • IP 65/IP 67 sealed • PVC insulated • Black PVC jacket

Description	Digi-Key Part No.	Price Each			Amphenol-Tuchel Part No.
		1	10	50	
Male 6+PE, 14AWG, Single Ended	361-1209-ND	38.19	36.29	34.79	CA 016 70 0001
Female 6+PE, 14AWG, Single Ended	361-1210-ND	38.36	36.45	34.94	CA 016 71 0001
Male 3+PE, 14AWG, Single Ended	361-1211-ND	40.21	38.20	36.62	CA 016 70 0002
Female 3+PE, 14AWG, Single Ended	361-1212-ND	40.46	38.44	36.85	CA 016 71 0002

C16-1 Circular Connectors

The circular connectors of the C 16-1 series are designed to meet the high requirements of industrial applications under harsh environmental conditions.

• **Number of Contacts:** 7 (6 + PE) • **Termination:** Solder • **Wire Gauge:** AWG 18 • **Rated Insulation Voltage:** 250V • **Current Carrying Capacity:** 10A • **Protection Class:** IP 67 • **Contact Plating:** Silver

Features: • Circular connectors with contact arrangements 3 + PE and 6 + PE for power and signal applications • Applications in machine tools, measurement and control, process technology and medical equipment • Housing are made from high grade plastic material • Protected against unlocking by threaded coupling • Protection degree IP 67 per IEC 60529 in mated condition • Internal strain relief with screw clamp or clamping ring provides a safe cable restrain

No. of Pos.	Cable Outlet	Dim. A (mm)	Digi-Key Part No.	Price Each			Amphenol-Tuchel Part No.
				1	10	50	
7	—	30.0	361-1041-ND	8.42	7.13	6.00	T3106 000

Panel Mount Receptacle Male

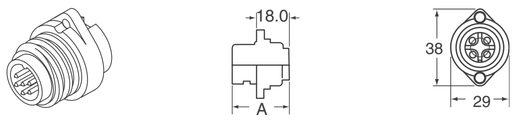

Amphenol®

Amphenol-Tuchel Electronics GmbH

C091 A and C091 D – IP 67 Circular Connectors

RoHS Compliant Parts Available
(parts other than indicated may be available as RoHS Compliant)

E 63093

Features: • Internal metal strain relief with half shell construction and snap-in latching • Complete EMI shielding in fully mated and locked position • Solder termination
Specifications: • Metal threaded coupling is nickel plated • Contact plating is silver • **C091 A:** Plastic Backshell • **C091 D:** Metal Backshell – IP 67

Fig. 1

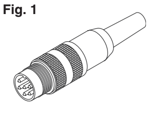

Fig. 2

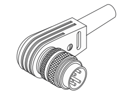

Fig. 3

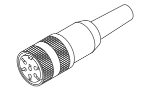

Fig. 4

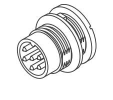

Fig. 5

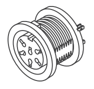

Fig. 6

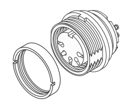

Fig. 7

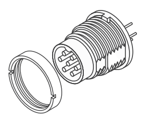

Fig.	No. of Positions	Digi-Key Part No.	Price Each			Amphenol-Tuchel Part No.
			1	10	50	
C091 A Series						
Male Cable Mount, Solder Type						
1	2	361-1213-ND◆	10.66	9.02	7.59	T 3200 001
	2	361-1214-ND◆‡	11.05	9.35	7.87	T 3200 018
	3 DIN	361-1215-ND◆‡	10.86	9.44	8.50	T 3260 018
	3 DIN	361-1044-ND	11.02	9.33	7.85	T 3260 001
	4 IEC	361-1216-ND◆‡	10.01	8.70	7.83	T 3300 018
	4 IEC	361-1045-ND	10.24	8.90	8.01	T 3300 001
	5	361-1217-ND◆‡	10.47	9.10	8.19	T 3360 018
	5	361-1046-ND◆	11.31	9.57	8.05	T 3360 001
	5 S DIN	361-1047-ND◆	12.17	10.58	9.53	T 3360 010
	6 DIN	361-1218-ND◆‡	13.41	11.66	10.50	T 3400 018
	6 DIN	361-1048-ND	10.86	9.44	8.50	T 3400 001
	7 DIN	361-1220-ND◆	11.13	9.68	8.72	T 3484 001
	7	361-1219-ND◆‡	12.81	11.14	10.03	T 3475 018
	7	361-1049-ND◆	11.50	10.00	9.00	T 3475 001
	8 DIN	361-1221-ND◆‡	8.42	7.32	6.59	T 3504 018
	8 DIN	361-1050-ND	10.58	9.20	8.28	T 3504 001
	12	361-1222-ND◆‡	18.63	17.54	15.90	T 3635 000
	12	361-1051-ND	18.90	17.80	16.13	T 3635 001
	14	361-1223-ND◆‡	19.87	18.71	16.96	T 3650 000
	14	361-1052-ND	19.98	18.80	17.04	T 3650 001
Male Right Angle Cable Mount — RoHS Compliant						
2	2	361-1224-ND	14.96	14.08	12.76	T 3200 005
	3 DIN	361-1225-ND	17.60	16.28	14.61	T 3260 005
	4 IEC	361-1226-ND	17.76	16.43	14.75	T 3300 005
	5	361-1227-ND	15.25	14.36	13.01	T 3360 005
	5 S DIN	361-1228-ND	17.07	16.07	14.56	T 3356 005
	6 DIN	361-1229-ND	15.49	14.58	13.21	T 3400 005
	7	361-1230-ND	15.62	14.71	13.33	T 3475 005
	7 DIN	361-1231-ND	15.73	14.80	13.42	T 3484 005
	8 DIN	361-1232-ND	15.93	15.00	13.59	T 3504 005
	12	361-1233-ND	22.80	22.04	20.52	T 3635 005
	14	361-1234-ND	23.87	23.07	21.48	T 3650 005
Female Cable Mount, Solder Type						
3	2	361-1235-ND◆	11.57	10.06	9.06	T 3201 001
	3 DIN	361-1053-ND	11.85	10.30	9.27	T 3261 001
	4 IEC	361-1054-ND◆	10.76	9.36	8.43	T 3301 001
	5	361-1055-ND	11.62	10.10	9.09	T 3361 001
	5 S DIN	361-1056-ND◆	13.20	11.48	10.34	T 3361 010
	6 DIN	361-1057-ND	11.94	10.38	9.35	T 3401 001
	7 DIN	361-1236-ND◆	13.64	12.62	11.33	T 3485 001
	7	361-1058-ND	13.23	11.50	10.35	T 3476 001
	8 DIN	361-1059-ND	12.16	11.25	10.10	T 3505 001
	12	361-1060-ND	16.76	15.78	14.30	T 3636 001
	14	361-1061-ND	18.07	17.01	15.42	T 3651 001
Male Receptacles, Front Panel Mount (With Ring Nut)						
4	3 DIN	361-1071-ND	6.03	5.00	4.16	T 3262 000
	4 IEC	361-1072-ND	6.26	5.19	4.32	T 3302 000
	5	361-1283-ND◆§	5.80	4.80	4.00	T 3362 400
	5	361-1073-ND	6.58	5.45	4.54	T 3362 000
	6 DIN	361-1075-ND	7.92	6.56	5.46	T 3402 000
	7	361-1284-ND◆§	11.00	9.31	7.83	T 3477 400
	7	361-1076-ND	7.37	6.10	5.08	T 3477 000
	8 DIN	361-1077-ND	8.32	6.89	5.74	T 3506-000
Male Receptacles, Front Panel Mount (With Hex Nut) — RoHS Compliant						
4	3 DIN	361-1275-ND	6.44	5.33	4.44	T 3262 009
	4 IEC	361-1276-ND	7.28	6.03	5.02	T 3302 009
	5	361-1277-ND	7.13	5.91	4.92	T 3362 009
	6 DIN	361-1278-ND	7.11	5.88	4.90	T 3402 009
	7	361-1279-ND	8.06	6.68	5.56	T 3477 009
	8 DIN	361-1280-ND	8.32	6.89	5.74	T 3506 009
	12	361-1281-ND	16.60	15.36	13.78	T 3637 009
	14	361-1282-ND	18.74	17.34	15.56	T 3652 009
Female Receptacles, Front Panel Mount (With Ring Nut)						
5	2	361-1237-ND◆	8.89	7.53	6.33	T 3203 000
	2	361-1238-ND◆‡	10.14	8.58	7.22	T 3203 018
	3 DIN	361-1239-ND◆‡	7.86	6.51	5.42	T 3263 018
	3 DIN	361-1062-ND◆	6.90	5.72	4.76	T 3263 000
	4 IEC	361-1240-ND◆‡	7.85	6.65	5.59	T 3303 018
	4 IEC	361-1063-ND	6.96	5.76	4.80	T 3303 000
	5	361-1241-ND◆‡	8.45	7.15	6.02	T 3363 018
	5	361-1064-ND◆	6.73	5.57	4.64	T 3363 000
	5 S DIN	361-1242-ND◆‡	9.66	8.40	7.56	T 3359 018
	5 S DIN	361-1065-ND	8.63	7.31	6.15	T 3363 010
	6 DIN	361-1243-ND◆‡	9.07	7.68	6.46	T 3403 018
	6 DIN	361-1066-ND	7.51	6.22	5.18	T 3403 000
	7 DIN	361-1245-ND◆	10.21	8.88	8.00	T 3487 000
	7	361-1067-ND	5.66	4.68	3.90	T 3478 000
	7	361-1244-ND◆‡	9.78	8.28	6.96	T 3478 018
	8 DIN	361-1246-ND◆‡	15.78	14.60	13.10	T 3507 018
	8 DIN	361-1068-ND	10.37	8.78	7.39	T 3507 000
	12	361-1247-ND◆‡	17.20	15.91	14.28	T 3638 004
	12	361-1069-ND	15.16	14.03	12.59	T 3638 000
	14	361-1248-ND◆‡	15.93	15.00	13.59	T 3653 004
	14	361-1070-ND	17.26	15.97	14.33	T 3653 000
Female Receptacles, Front Panel Mount (With Hex Nut) — RoHS Compliant						
5	2	361-1249-ND	9.67	8.19	6.89	T 3203 009
	3 DIN	361-1250-ND	7.28	6.03	5.02	T 3263 009
	4 IEC	361-1251-ND	7.02	5.81	4.84	T 3303 009
	5	361-1252-ND	7.22	5.98	4.98	T 3363 009
	5 S DIN	361-1253-ND	8.92	7.55	6.35	T 3359 009
	6 DIN	361-1254-ND	6.03	5.00	4.16	T 3403 009
	7 DIN	361-1256-ND	10.65	9.26	8.34	T 3487 009
	7	361-1255-ND	8.00	6.63	5.52	T 3478 009
	8 DIN	361-1257-ND	10.01	8.70	7.83	T 3507 009
	12	361-1258-ND	15.74	14.56	13.07	T 3638 009
	14	361-1259-ND	17.64	16.32	14.65	T 3653 009
Female Receptacles, Rear Panel Mount — RoHS Compliant						
6	3 DIN	361-1260-ND	5.31	4.40	3.66	T 3263 100
	3 DIN	361-1386-ND§	8.29	6.87	5.72	T 3263 400
	4 IEC	361-1261-ND	8.58	7.11	5.92	T 3303 100
	4 IEC	361-1270-ND§	7.96	6.74	5.67	T 3303 400
	5	361-1262-ND	8.87	7.51	6.31	T 3363 100
	5	361-1271-ND§	8.71	7.37	6.20	T 3363 400
	5 S DIN	361-1263-ND	8.58	7.26	6.11	T 3359 100
	6 DIN	361-1264-ND	9.96	8.43	7.09	T 3403 100
	6 DIN	361-1272-ND§	9.54	8.08	6.79	T 3403 400
	7	361-1265-ND	10.89	9.22	7.76	T 3478 100
	7	361-1273-ND§	10.37	8.78	7.39	T 3478 400
	7 DIN	361-1266-ND	10.86	9.44	8.50	T 3487 100
	8 DIN	361-1267-ND	9.84	8.56	7.71	T 3507 100
	8 DIN	361-1274-ND§	9.68	8.42	7.58	T 3507 400
	12	361-1268-ND	15.24	14.10	12.65	T 3638 100
	14	361-1269-ND	14.96	13.84	12.42	T 3653 100
C091 D Series – IP 67						
Male Cable Mount — RoHS Compliant						
1	3 DIN	361-1124-ND	18.34	17.27	15.65	C091 31H003 100 2
	4 IEC	361-1286-ND	18.50	17.41	15.78	C091 31H004 100 2
	5 S DIN	361-1287-ND	17.36	16.78	15.62	C091 31H105 100 2
	5 DIN	361-1125-ND	17.22	16.21	14.69	C091 31H005 100 2
	6 DIN	361-1126-ND	18.96	17.84	16.17	C091 31H006 100 2
	7	361-1288-ND	19.09	17.97	16.29	C091 31H007 100 2
	7 DIN	361-1289-ND	19.21	18.08	16.39	C091 31H107 100 2
	8 DIN	361-1127-ND	19.45	18.31	16.59	C091 31H008 100 2
	12	361-1290-ND‡	20.58	19.90	18.53	C091 31H012 200 2
	14	361-1291-ND‡	21.29	20.58	19.16	C091 31H014 200 2
Male Right Angle Cable Mount — RoHS Compliant						
2	3 DIN	361-1320-ND	18.50	17.88	16.65	C091 31K003 100 2
	4 DIN	361-1321-ND	18.81	18.19	16.93	C091 31K004 100 2
	5 S DIN	361-1322-ND	18.93	18.30	17.04	C091 31K105 100 2
	5	361-1323-ND	18.74	18.12	16.87	C091 31K005 100 2
	6 DIN	361-1324-ND	19.14	18.51	17.23	C091 31K006 100 2
	7 DIN	361-1325-ND	19.34	18.70	17.41	C091 31K107 100 2
	7	361-1326-ND	19.25	18.61	17.33	C091 31K007 100 2
	8 DIN	361-1327-ND	19.52	18.87	17.57	C091 31K008 100 2
	12	361-1328-ND	21.62	20.90	19.46	C091 31K012 100 2
	14	361-1329-ND	21.27	20.57	19.15	C091 31K014 100 2
Female Cable Mount — RoHS Compliant						
3	3 DIN	361-1128-ND	19.31	18.18	16.48	C091 31D003 100 2
	4 IEC	361-1292-ND	19.24	18.12	16.42	C091 31D004 100 2
	5 S DIN	361-1293-ND	17.10	16.53	15.39	C091 31D105 100 2
	5 DIN	361-1129-ND	19.36	18.23	16.52	C091 31D005 100 2
	6 DIN	361-1130-ND	19.53	18.39	16.67	C091 31D006 100 2
	7 DIN	361-1295-ND	18.84	18.22	16.96	C091 31D107 100 2
	7	361-1294-ND	17.24	16.67	15.52	C091 31D007 100 2
	8 DIN	361-1131-ND	20.16	18.98	17.20	C091 31D008 100 2
	12	361-1296-ND‡	20.70	20.01	18.63	C091 31D012 200 2
	14	361-1297-ND‡	25.97	25.10	23.37	C091 31D014 200 2
Male Receptacles – Front Panel Mount RoHS Compliant						
4	3 DIN	361-1136-ND	8.55	7.24	6.09	C091 31W003 100 2
	4 IEC	361-1314-ND	8.74	7.40	6.22	C091 31W004 100 2
	5 S DIN	361-1315-ND	10.49	9.12	8.21	C091 31W105 100 2
	5 DIN	361-1137-ND	8.92	7.55	6.35	C091 31W005 100 2
	6 DIN	361-1138-ND	9.23	7.81	6.57	C091 31W006 100 2
	7 DIN	361-1317-ND	9.78	8.28	6.96	C091 31W107 100 2
	7	361-1316-ND	9.41	7.97	6.70	C091 31W007 100 2
	8 DIN	361-1139-ND	10.14	8.58	7.22	C091 31W008 100 2
	12	361-1318-ND‡	16.88	15.62	14.02	C091 31W012 200 2
	14	361-1319-ND‡	15.27	14.37	13.03	C091 31W014 200 2
Female Receptacles – Front Panel Mount RoHS Compliant						
5	3 DIN	361-1132-ND	10.27	8.69	7.31	C091 31N003 100 2
	4 IEC	361-1298-ND	10.17	8.61	7.24	C091 31N004 100 2
	5 S DIN	361-1299-ND	10.60	9.22	8.30	C091 31N105 100 2
	5 DIN	361-1133-ND	10.32	8.74	7.35	C091 31N005 100 2

◆ ***RoHS Compliant*** ‡ Gold Plated § Straight dip solder type *(Continued)*

Amphenol®
Amphenol-Tuchel Electronics GmbH

C091 A and C091 D – IP 67 Circular Connectors *(Cont.)*

Fig.	No. of Positions	Digi-Key Part No.	Price Each			Amphenol-Tuchel Part No.
			1	10	50	
5	6 DIN	361-1134-ND	7.98	6.76	5.68	C091 31N006 100 2
	7 DIN	361-1301-ND	11.68	10.16	9.15	C091 31N107 100 2
	7	361-1300-ND	7.31	6.36	5.73	C091 31N007 100 2
	8 DIN	361-1135-ND	13.06	11.36	10.23	C091 31N008 100 2
	12	361-1302-ND‡	16.54	15.30	13.73	C091 31N012 200 2
	14	361-1303-ND‡	15.13	14.24	12.91	C091 31N014 200 2
Female Receptacles, Rear Panel Mount — RoHS Compliant						
6	3 DIN	361-1304-ND	10.04	8.50	7.15	C091 31G003 100 2
	4 IEC	361-1305-ND	9.96	8.43	7.09	C091 31G004 100 2
	5 S DIN	361-1307-ND	10.70	9.30	8.37	C091 31G105 100 2
	5	361-1306-ND	9.85	8.34	7.02	C091 31G005 100 2
	6 DIN	361-1308-ND	10.06	8.52	7.16	C091 31G006 100 2
	7 DIN	361-1310-ND	11.75	10.22	9.20	C091 31G107 100 2
	7	361-1309-ND	9.41	8.18	7.37	C091 31G007 100 2
	8 DIN	361-1311-ND	12.37	10.76	9.69	C091 31G008 100 2
	12	361-1312-ND‡	16.96	15.69	14.08	C091 31G012 200 2
	14	361-1313-ND‡	18.07	17.01	15.42	C091 31G014 200 2
Male Receptacles, Rear Panel Mount — RoHS Compliant						
7	3 DIN	361-1140-ND	9.46	8.01	6.74	C091 31C003 100 2
	5 DIN	361-1141-ND	10.45	8.85	7.44	C091 31C005 100 2
	6 DIN	361-1142-ND	10.14	8.58	7.22	C091 31C006 100 2
	8 DIN	361-1143-ND	10.87	9.20	7.74	C091 31C008 100 2
Female Right Angle Cable Mount — RoHS Compliant						
—	3 DIN	361-1330-ND	20.46	19.78	18.42	C091 31F003 100 2
	4 DIN	361-1331-ND	20.40	19.72	18.36	C091 31F004 100 2
	5 S DIN	361-1332-ND	21.53	20.81	19.38	C091 31F105 100 2
	5	361-1333-ND	20.28	19.61	18.26	C091 31F005 100 2
	6 DIN	361-1334-ND	20.64	19.96	18.58	C091 31F006 100 2
	7 DIN	361-1335-ND	23.16	22.39	20.85	C091 31F107 100 2
	7	361-1336-ND	20.64	19.96	18.58	C091 31F007 100 2
	8DIN	361-1337-ND	23.22	22.45	20.90	C091 31F008 100 2
	12	361-1338-ND	26.03	25.16	23.43	C091 31F012 100 2
	14	361-1339-ND	26.93	26.03	24.24	C091 31F014 100 2
Tools						
Spanner Wrench Cable Side		361-1144-ND	18.51/1			FH 0300 091
Spanner Wrench Receptacles		361-1145-ND	10.66/1			N 45 091 0001

◆ ***RoHS Compliant*** ‡ Gold Plated § Straight dip solder type

Cable Assemblies

Features:

- Foil shielded
- Tin copper drain wire
- Chrome PVC jacket
- Insulation semi-rigid PVC
- Sunlight resistant

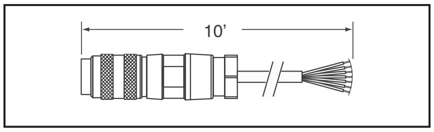

No. of Positions	Digi-Key Part No.	Price Each			Amphenol-Tuchel Part No.
		1	10	50	
IP 40 Rated Cable Assemblies					
2 Male	361-1185-ND	15.88	14.95	13.55	CA 091 70 0001
3 Male	361-1186-ND	16.70	16.14	15.03	CA 091 70 0002
4 Male	361-1187-ND	16.77	16.22	15.10	CA 091 70 0003
5 Male	361-1188-ND	18.77	18.14	16.89	CA 091 70 0004
6 Male	361-1189-ND	19.05	18.42	17.15	CA 091 70 0005
7 Male	361-1190-ND	23.40	22.62	21.06	CA 091 70 0006
8 Male	361-1191-ND	23.12	22.35	20.81	CA 091 70 0007
2 Female	361-1192-ND	15.71	14.79	13.40	CA 091 71 0001
3 Female	361-1193-ND	16.55	16.00	14.90	CA 091 71 0002
4 Female	361-1194-ND	16.40	15.85	14.76	CA 091 71 0003
5 Female	361-1195-ND	18.62	18.00	16.76	CA 091 71 0004
6 Female	361-1196-ND	18.96	18.33	17.07	CA 091 71 0005
7 Female	361-1197-ND	23.30	22.52	20.97	CA 091 71 0006
8 Female	361-1198-ND	23.61	22.83	21.25	CA 091 71 0007
IP 67 Rated Cable Assemblies					
3 Male	361-1199-ND	22.55	21.80	20.30	CA 091 70 0008
4 Male	361-1200-ND	22.80	22.04	20.52	CA 091 70 0009
5 Male	361-1201-ND	25.20	24.36	22.68	CA 091 70 0010
6 Male	361-1202-ND	25.28	24.44	22.75	CA 091 70 0011
8 Male	361-1203-ND	29.85	28.86	26.87	CA 091 70 0012
3 Female	361-1204-ND	23.51	22.73	21.16	CA 091 71 0008
4 Female	361-1205-ND	23.55	22.77	21.20	CA 091 71 0009
5 Female	361-1206-ND	26.37	25.50	23.74	CA 091 71 0010
6 Female	361-1207-ND	26.70	25.81	24.03	CA 091 71 0011
8 Female	361-1208-ND	31.31	30.27	28.18	CA 091 71 0012

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44 Series Circular Connectors – IP 65/67

Features:
• Long time resistance against environmental impacts • 3 liquid-proof seals • Quick and easy assembly • Quick and easy mating • Protection class IP 65/67 • High reliability • Discrete wire interconnection • Crimp termination • 1, 2, 3, 4, 5, and 6 contact configurations available • Mated Dimension: 56.33mm

Fig. 1

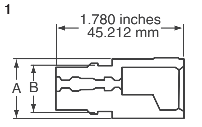

Fig. 2

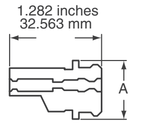

Insert Configurations

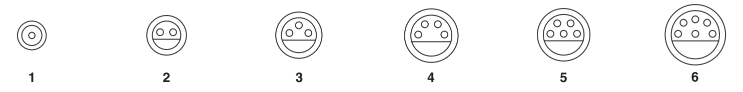

Fig.	No. of Pos.	Dimensions – Inch (mm)		Digi-Key Part No.	Price Each			Amphenol-Tuchel Part No.
		A	B		1	10	50	
Receptacle								
1	1	0.50 (12.62)	0.44 (11.18)	361-1106-ND	5.08	4.20	3.50	044 104 10001 02
	2	0.61 (15.42)	0.47 (11.94)	361-1107-ND	4.88	4.05	3.38	044 104 10002 02
	3	0.71 (17.98)	0.57 (14.48)	361-1108-ND	5.75	4.78	3.99	044 104 10003 02
	4	0.82 (20.80)	0.68 (17.32)	361-1109-ND	5.37	4.44	3.70	044 104 10004 02
	5	0.82 (20.80)	0.68 (17.32)	361-1110-ND	4.97	4.14	3.45	044 104 10005 02
	6	0.93 (23.70)	0.80 (20.22)	361-1111-ND	6.29	5.21	4.34	044 104 10006 02
Plug								
2	1	0.50 (12.62)	—	361-1112-ND	5.37	4.44	3.70	044 103 10001
	2	0.61 (15.42)	—	361-1113-ND	4.06	3.38	2.82	044 103 10002
	3	0.71 (17.98)	—	361-1114-ND	4.78	3.97	3.31	044 103 10003
	4	0.82 (20.80)	—	361-1115-ND	6.37	5.30	4.41	044 103 10004
	5	0.82 (20.80)	—	361-1116-ND	2.44	2.03	1.69	044 103 10005
	6	0.93 (23.70)	—	361-1117-ND	6.60	5.49	4.57	044 103 10006

Contacts

Description	Digi-Key Part No.	Price Each			Amphenol-Tuchel Part No.
		1	10	50	
Pin, 14-18AWG, Tin	361-1118-ND	.86	.61	.47	44-100-1414P-100(101)
Socket, 14-18AWG, Tin	361-1119-ND	2.10	1.64	1.39	044 102 1414S 100 (101)

Tools

Description	Digi-Key Part No.	Price Each	Amphenol-Tuchel Part No.
Crimp for 14-18AWG, pin/socket	361-1120-ND	444.74	357-588
Insertion Tool for pin/socket	361-1121-ND	107.67	356-258
Removal Tool for pin	361-1122-ND	96.92	356-259
Removal Tool for socket	361-1123-ND	121.62	356-260

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conxall
A Switchcraft Company

SENSOR-LINK

Molded Single Ended Cable Assemblies and Panel Mount Receptacles with Wire Leads

Fig. 1

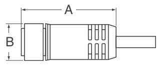

Fig. 2

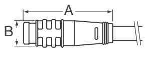

Fig. 3

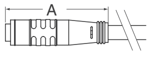

A

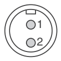

B

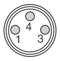

Features:

Designed to meet or exceed the requirements of UL, CSA, NEMA, ANSI, IEC and SAE, the Sensor-Link series is intermateable and intermountable with other manufacturers equivalents.

Mini-Mizer® "A" Size Specifications:

• Voltage: 600V • Contacts: Copper alloy, gold-plated • Cable: 16AWG, PVC Insulated, 600V, 105°C • Overmold: Polyurethane • Operating Ambient Temperature: -20°C ~ 80°C

Nano-Mizer® Specifications:

• Voltage: 300V, 4 Amps • Contacts: Copper alloy, gold-plated • Cable: .25mm (or approximately 22AWG) PVC insulated • Operating Ambient Temperature: -20°C ~ 105°C

Fig.	No. of Pos.	Description	Length (Feet)	Dim. (Inch)		Digi-Key Part No.	Price Each		Conxall Part No.
				A	B		1	25	
Mini-Mizer® "A" Size									
1A	2	Female	12	2.25	1.0	SC1292-ND	20.58	19.34	162S144
Nano-Mizer® Series									
2B	3	Male	6	1.16	.328	SC1300-ND	7.69	7.23	603PS2
3B	3	Female	6	1.305	—	SC1302-ND	8.37	7.87	603SS2

conxall
A Switchcraft Company

Field Installable Connectors

Conxall was an innovator in the design of all plastic cylindrical connectors. The all plastic connector provides for substantial savings in cost without sacrificing performance and quality.
The all plastic connector is corrosion resistant, non-conductive and withstands substantial abuse, hostile environments, and heavy impacts that would otherwise cause metal connectors to corrode, deform or become electrically conductive and thus become unusable or unsafe.

Specifications: • Voltage: 600V • Temperature Rating: -55°C ~ 125°C (-67°F ~ 257°F) • Contacts: Brass, gold over nickel • Watertight: NEMA 6P, 13: IEC IP67 • UL Recognized: File #E138878 - 250V • CSA Certified: File #LR89277 - 600V
Micro-Con-X®: • Rating: 3.0 ~ 7.5A, 600V • Conductor Size: 20 ~ 24 AWG
Mini-Con-X®: • Rating: 4.8 ~ 13.0A, 600V • Conductor Size: 20 ~ 24 AWG
Multi-Con-X®: • Rating: 1.95 ~ 23.0A, 600V • Conductor Size: #12 Contacts, 12 ~ 14 AWG; #20 Contacts, 20 ~ 24 AWG
Note: Contact size is determined by the second digit of Conxall part number: 1=#12, 2=#20
Maxi-Con-X®: • Rating: 1.35 ~ 13.0A, 600V • Conductor Size: #12 Contacts, 12 ~ 14 AWG; #16 Contacts, 16 ~ 18 AWG; #20 Contacts, 20 ~ 24 AWG
Note: Contact size is determined by the second digit of Conxall part number: 1=#12, 2=#20, 3=#16

Fig. 1 (Mates with Fig. 4 and 6)

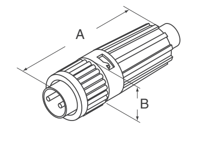

Fig. 2 (Mates with Fig. 3 and 5)

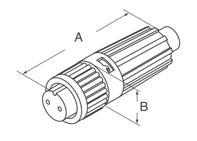

Fig. 3 (Mates with Fig. 2)

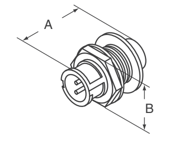

Fig. 4 (Mates with Fig. 1)

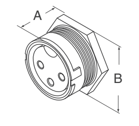

Fig. 5 (Mates with Fig. 2)

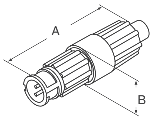

Fig. 6 (Mates with Fig. 1)

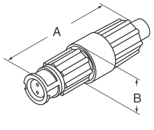

Fig. 7

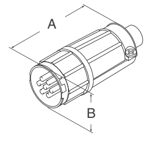

Micro-Con-X® Series

No. of Pos.	Dim. (Inch)		Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each			Conxall Part No.
	A	B			1	10	25	
Fig. 1 — Cable Pin – Plug with Male Insert								
2	1.29	.530	0.14	SC1202-ND	4.13	3.10	2.83	16282-2PG-311
3				SC1204-ND	4.87	3.66	3.34	16282-3PG-311
Fig. 2 — Cable Socket – Plug with Female Insert								
2	1.29	.530	0.14	SC1203-ND	4.76	3.58	3.28	16282-2SG-311
3				SC1205-ND	5.82	4.37	4.00	16282-3SG-311
Fig. 3 — Panel Mount Receptacle with Male Insert								
2	.715	.715	—	SC1206-ND	3.03	2.28	2.09	17282-2PG-300
3				SC1208-ND	3.72	2.79	2.56	17282-3PG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
2	.715	.715	—	SC1207-ND	3.88	2.92	2.67	17282-2SG-300
3				SC1209-ND	4.83	3.64	3.33	17282-3SG-300
Fig. 5 — Cable to Cable – Cable Mount Socket with Male Insert								
2	1.32	.500	0.14	SC1210-ND	2.88	2.17	1.98	18282-2PG-311
3				SC1212-ND	4.39	3.30	3.03	18282-3PG-311
Fig. 6 — Cable to Cable – Cable Mount Socket with Female Insert								
2	1.32	.500	0.14	SC1211-ND	4.52	3.39	3.12	18282-2SG-311
3				SC1213-ND	5.59	4.20	3.85	18282-3SG-311

Mini-Con-X® Series

No. of Pos.	Dim. (Inch)		Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each			Conxall Part No.
	A	B			1	10	25	
Fig. 1 — Cable Pin – Plug with Male Insert								
2	1.315	.715	0.250	SC1262-ND	4.53	3.47	3.20	6282-2PG-3DC
3				SC1264-ND	5.23	3.99	3.68	6282-3PG-3DC
4				SC1266-ND	5.90	4.49	4.15	6282-4PG-3DC
5				SC1268-ND	6.59	5.01	4.62	6282-5PG-3DC
6				SC1270-ND	7.20	5.47	5.03	6282-6PG-3DC
Fig. 2 — Cable Socket – Plug with Female Insert								
2	1.315	.715	0.250	SC1263-ND	5.37	4.10	3.78	6282-2SG-3DC
3				SC1265-ND	6.42	4.88	4.49	6282-3SG-3DC
4				SC1267-ND	7.45	5.66	5.21	6282-4SG-3DC
5				SC1269-ND	8.45	6.41	5.90	6282-5SG-3DC
6				SC1271-ND	9.39	7.12	6.53	6282-6SG-3DC
Fig. 3 — Panel Mount Receptacle with Male Insert								
2	.675	.924	—	SC1272-ND	3.06	2.30	2.12	7282-2PG-300
3				SC1274-ND	3.76	2.82	2.59	7282-3PG-300
4				SC1276-ND	4.45	3.33	3.05	7282-4PG-300
5				SC1278-ND	5.07	3.80	3.48	7282-5PG-300
6				SC1280-ND	5.72	4.29	3.94	7282-6PG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
2	.675	.924	—	SC1273-ND	3.62	2.72	2.49	7282-2SG-300
3				SC1275-ND	4.57	3.44	3.16	7282-3SG-300
4				SC1277-ND	5.48	4.12	3.77	7282-4SG-300
5				SC1279-ND	6.37	4.78	4.39	7282-5SG-300
6				SC1281-ND	7.27	5.47	5.01	7282-6SG-300
Fig. 5 — Cable to Cable – Cable Mount Socket with Male Insert								
2	1.395	.625	0.250	SC1282-ND	4.92	3.76	3.47	8282-2PG-3DC
3				SC1284-ND	5.66	4.30	3.97	8282-3PG-3DC
4				SC1286-ND	6.34	4.81	4.44	8282-4PG-3DC
5				SC1288-ND	6.98	5.31	4.89	8282-5PG-3DC
6				SC1290-ND	7.62	5.78	5.32	8282-6PG-3DC
Fig. 6 — Cable to Cable – Cable Mount Socket with Female Insert								
2	1.395	.625	0.250	SC1283-ND	5.51	4.21	3.88	8282-2SG-3DC
3				SC1285-ND	6.59	5.01	4.62	8282-3SG-3DC
4				SC1287-ND	7.60	5.76	5.30	8282-4SG-3DC
5				SC1289-ND	8.57	6.49	5.97	8282-5SG-3DC
6				SC1291-ND	9.53	7.22	6.64	8282-6SG-3DC

Multi-Con-X® Series

No. of Pos.	Dim. (Inch)		Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each			Conxall Part No.
	A	B			1	10	25	
Fig. 1 — Cable Pin – Plug with Male Insert								
2	1.57	.875	0.250	SC1214-ND	6.13	4.66	4.29	3182-2PG-3DC
3				SC1216-ND	7.16	5.45	5.01	3182-3PG-3DC
4				SC1218-ND	6.85	5.20	4.79	3282-4PG-3DC
5				SC1220-ND	7.48	5.69	5.23	3282-5PG-3DC
6				SC1222-ND	8.12	6.17	5.67	3282-6PG-3DC
7				SC1224-ND	8.74	6.63	6.10	3282-7PG-3DC
8				SC1226-ND	9.33	7.07	6.50	3282-8PG-3DC
9				SC1228-ND	9.90	7.49	6.89	3282-9PG-3DC
Fig. 2 — Cable Socket – Plug with Female Insert								
2	1.57	.875	0.250	SC1215-ND	7.52	5.71	5.26	3182-2SG-3DC
3				SC1217-ND	9.04	6.85	6.29	3182-3SG-3DC
4				SC1219-ND	8.72	6.62	6.09	3282-4SG-3DC
5				SC1221-ND	9.71	7.37	6.76	3282-5SG-3DC
6				SC1223-ND	10.66	8.07	7.42	3282-6SG-3DC
7				SC1225-ND	11.62	8.78	8.09	3282-7SG-3DC
8				SC1227-ND	12.55	9.48	8.71	3282-8SG-3DC
9				SC1229-ND	13.48	10.18	9.36	3282-9SG-3DC
Fig. 3 — Panel Mount Receptacle with Male Insert								
2	.625	1.155	—	SC1230-ND	4.30	3.23	2.96	4182-2PG-300
3				SC1232-ND	5.38	4.03	3.70	4182-3PG-300
4				SC1234-ND	4.99	3.75	3.44	4282-4PG-300
5				SC1236-ND	5.66	4.25	3.91	4282-5PG-300
6				SC1238-ND	6.27	4.71	4.31	4282-6PG-300
7				SC1240-ND	6.89	5.17	4.74	4282-7PG-300
8				SC1242-ND	7.49	5.63	5.15	4282-8PG-300
9				SC1244-ND	8.07	6.04	5.54	4282-9PG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
2	.625	1.155	—	SC1231-ND	5.20	3.92	3.57	4182-2SG-300
3				SC1233-ND	6.71	5.03	4.62	4182-3SG-300
4				SC1235-ND	5.99	4.51	4.13	4282-4SG-300
5				SC1237-ND	7.07	5.29	4.87	4282-5SG-300
6				SC1239-ND	7.77	5.85	5.35	4282-6SG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
7	1.65	.766	—	SC1241-ND	8.63	6.47	5.94	4282-7SG-300
8				SC1243-ND	9.64	7.23	6.64	4282-8SG-300
9				SC1245-ND	10.47	7.87	7.20	4282-9SG-300

Maxi-Con-X® Series

No. of Pos.	Dim. (Inch)		Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each			Conxall Part No.
	A	B			1	10	25	
Fig. 7 — Cable to Cable – Cable Mount Socket with Male Insert								
7	2.0	1.06	.30	SC1196-ND	11.57	8.67	7.96	15182-7PG-326

Switchcraft®

NEW! EN3® Right Angle Weathertight Connectors

Features: • Patented grommet and "O" ring free design allows for quick assembly • Gold plated pins and contacts with an integrated design ensures reliable and uninterrupted connectivity • The only IP68 rated right angle PCB mount connector on the market • No intermediate PC board • Available in 2 ~ 6 pin female and 2 ~ 8 pin male 20AWG pins and contacts only

Specifications:

Materials: • **Panel Connector Shells and Locking Nut:** Thermoplastic polymer, glass fiber, flame retardant • **Connector Shell Interior:** Thermoplastic rubber • **Contacts:** Copper base alloy gold-plated over nickel underplating
Mechanical: • **Shock:** Mil-Std 202 Method 213B, condition K • **Vibration:** Mil-Std 202 Method 201 • **Life:** 600 insertion/withdraw cycles (minimum)
Electrical: • **Voltage Rating:** Tested at 600 VRMS • **Insulation Resistance:** 100MΩ minimum at 77°F • **Contact Resistance:** 10mΩ maximum • **Current Rating:** 6.5A (#20 contact) 7 and 8 pin; 7.5A (#20 contact) 2 ~ 6 pin
Environmental: • **Temperature Limits:** -40°C ~ 65°C (non-operating) • **Moisture Resistance:** Mil-Std 202 Method 106F • **Insulation Resistance:** Mil-Std 202 Method 302 condition B • **Thermal Shock:** Mil-Std 202 Method 107G • **Salt Spray:** Mil-Std 202 Method 101D condition B
Applications: • Used in marine, medical, food service, transportation, GPS and general electronic applications
Product Ratings: • IP16/IP18 (Unmated) • IP66/IP68 (Mated) • NEMA 250 (6P) • CFR 46 Part 110.20 • UL 94V-0

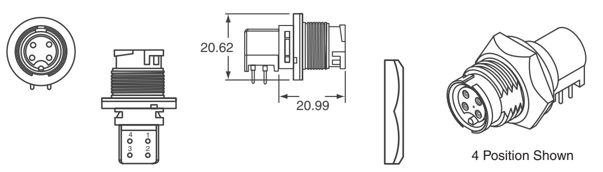

4 Position Shown

No. of Positions	Description	Digi-Key Part No.	Price Each			Switchcraft Part No.
			1	10	25	
3	Female	SC241-ND	11.61	8.71	7.98	EN3P3FRAPC
	Male	SC242-ND	8.79	6.60	6.06	EN3P3MRAPC
4	Female	SC243-ND	13.86	10.39	9.54	EN3P4FRAPC
	Male	SC244-ND	10.23	7.69	7.04	EN3P4MRAPC
5	Female	SC245-ND	16.46	12.35	11.32	EN3P5FRAPC
	Male	SC246-ND	11.93	8.96	8.21	EN3P5MRAPC
6	Female	SC247-ND	18.93	14.20	13.02	EN3P6FRAPC
	Male	SC248-ND	13.94	10.45	9.59	EN3P6MRAPC
7	Male	SC249-ND	15.33	11.51	10.55	EN3P7MRAPC
8	Male	SC250-ND	16.76	12.58	11.53	EN3P8MRAPC

Switchcraft®

EN3® Mini Weathertight Connectors

Features: • No Grommets • Cable clamp assembly features living hinges, which snap easily onto and hold the cable • Housing rated UL 94V-0 against flammability • Panel connector shell features a positioning keyway to prevent misalignments • 2-8 pins • Exceeds Coast Guard specifications for water tightness (CFR 46 Part 110.20) • Optional cap covers the panel housing assembly when not in use • Contact terminal: Solder cup contacts • Choose cord plug, in-line or panel mount

Applications: • Process control communications • Marine electronics transportation • Medical instrumentation general industrial electronics • Geothermal instrumentation harsh environments

Specifications: Mechanical: • Shock: Mil-Std 202 Method 213B condition K • Vibration: Mil-Std 202 Method 201 • Life: 600 insertion/withdrawal cycles (minimum) **Electrical:** • Voltage Rating (sea level): Tested at 600 VRMS • Insulation Resistance: 100MΩ (minimum) at 77°F (25°C) • Contact Resistance: 5mΩ (maximum) • Current Rating: 7.5 Amps (#20 contact) **Environmental:** • Temperature Limits: -40°C ~ 65°C (non-operating) • Moisture Resistance: Mil-Std 202 Method 106F • Insulation Resistance: Mil-Std 202 Method 302 condition B • Thermal Shock: Mil-Std 202 Method 107G • Salt Spray: Mil-Std 202 Method 101D condition B

Fig. 1

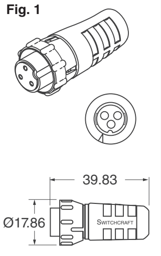

Fig. 2

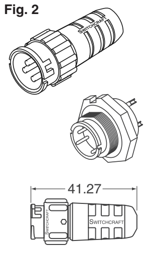

Fig. 3

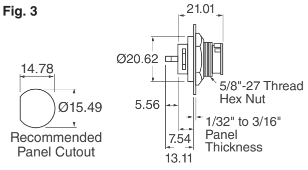

Fig. 4

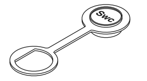

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	10	25	Switchcraft Part No.
			Plugs				
1	3	Female	SC1156-ND	6.68	5.01	4.60	EN3C3F
		Male	SC1157-ND	4.79	3.60	3.30	EN3C3M
	4	Female	SC1158-ND	7.86	5.90	5.42	EN3C4F
		Male	SC1159-ND	5.49	4.12	3.78	EN3C4M
	5	Female	SC1160-ND	9.14	6.86	6.29	EN3C5F
		Male	SC1161-ND	6.27	4.71	4.32	EN3C5M
	6	Female	SC1162-ND	10.48	7.86	7.21	EN3C6F
		Male	SC1163-ND	6.96	5.22	4.79	EN3C6M
	8	Female	SC1164-ND	13.15	9.87	9.05	EN3C8F
			In-Line Receptacles				
2	3	Female	SC1175-ND	6.46	4.85	4.44	EN3L3F
		Male	SC1176-ND	4.71	3.54	3.24	EN3L3M
	4	Female	SC1177-ND	7.73	5.80	5.32	EN3L4F
		Male	SC1178-ND	5.33	4.00	3.67	EN3L4M
	5	Female	SC1179-ND	8.93	6.70	6.15	EN3L5F
		Male	SC1180-ND	6.14	4.61	4.22	EN3L5M
	6	Female	SC1181-ND	10.16	7.62	6.99	EN3L6F
		Male	SC1182-ND	6.80	5.10	4.68	EN3L6M
	8	Male	SC1183-ND	8.36	6.27	5.75	EN3L8M
			Panel-Mount Receptacles				
3	3	Female	SC1165-ND	5.94	4.46	4.08	EN3P3F
		Male	SC1166-ND	4.26	3.20	2.94	EN3P3M
	4	Female	SC1167-ND	7.04	5.28	4.85	EN3P4F
		Male	SC1168-ND	4.96	3.72	3.41	EN3P4M
	5	Female	SC1169-ND	8.36	6.27	5.75	EN3P5F
		Male	SC1170-ND	5.73	4.30	3.94	EN3P5M
	6	Female	SC1171-ND	9.59	7.20	6.60	EN3P6F
		Male	SC1172-ND	6.46	4.85	4.44	EN3P6M
	8	Male	SC1173-ND	7.86	5.90	5.42	EN3P8M
4	—	Dust Cap	SC1174-ND	1.36	1.02	.94	EN3CAP

molex®

NEW! 2.50mm Mini Splash Proof Connectors

Receptacle and Plug:

Specifications:

Electrical:

• Voltage: 25V • Current: 4.0A • Contact Resistance: 10mΩ maximum • Dielectric Withstanding Voltage: 500VAC per 1 minute • Insulation Resistance: 250MΩ minimum

Physical:

• Housing/Cap: Glass-filled PBTP • Wire End Seal: Silicone • Seal Stopper *(Plug only)*: Glass-filled PBTP • Seal *(Plug only)*: Silicone • **Operating Temperature:** -40°C ~ 105°C

Fig. 1

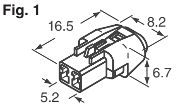

Fig. 2

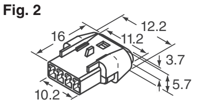

Fig. 3

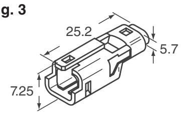

Fig. 4

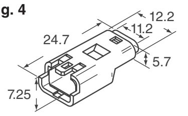

Fig.	Description	Circuits	Color	Digi-Key Part No.	Price Each 1	10	50	Molex Part No.
1	Receptacle	2	Black	WM17522-ND	1.24	1.06	.89	52213-0211
2	Receptacle	3	Black	WM17523-ND	1.73	1.46	1.23	52213-0311
		4	Brown	WM17524-ND	1.89	1.60	1.35	52213-0417
3	Plug	2	Black	WM17526-ND	2.21	1.87	1.58	52266-0211
4	Plug	3	Black	WM17527-ND	2.93	2.48	2.09	52266-0311
		4	Brown	WM17528-ND	3.33	2.82	2.37	52266-0417

Description	Wire Size AWG	Digi Key Part No.	Price Each 1	10	50	Molex Part No.
Socket - Tin	20-22	WM17525-ND	.24	.21	.18	50148-8100
Pin - Tin		WM17529-ND	.24	.21	.18	50147-8100
		Tools				
Crimp Hand Tool, 20-22AWG		WM17530-ND	321.98/1			63811-8600

molex®

MX150L Waterproof Automotive Type Connectors

Receptacle and Plug Specifications: *Electrical:* • Dielectric Withstanding Voltage: 1500VAC minimum • Insulation Resistance: 1000MΩ ***Physical:*** • Housing: SPS Glass-Filled Crystalline, UL 94V-0 • Polymer Operating Temperature: -55°C ~ 125°C **Features:** • Environmentally sealed to IP67 and USCAR-2, Rev. 3 standards • Integrated mat wire seal • Integrated interface seal • Integrated terminal position assurance (TPA) • Simple crimp and poke application • Field serviceable contact removal system • Tactile and audible mating feedback • Supports 18-22AWG and 14-16AWG wire range

Vertical and Right Angle Header Specifications: *Electrical:* • Dielectric Withstanding Voltage: 2200VAC minimum • Insulation Resistance: 1000MΩ ***Physical:*** • Housing: Glass-Filled PBT • Contacts: Copper Alloy • Operating Temperature: -40°C ~ 125°C **Features:** • Environmentally sealed to IP67 standards • Molded silicon panel gasket included • Tactile and audible mating feedback • Supports 14-22 AWG wire range

Fig. 1

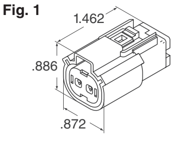

Contacts sold separately

Fig. 2

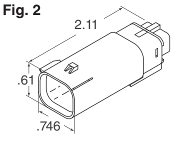

Contacts sold separately

Fig. 3

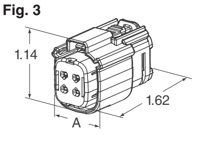

Contacts sold separately

Fig. 4

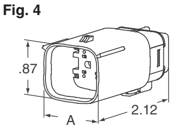

Contacts sold separately

Fig. 5

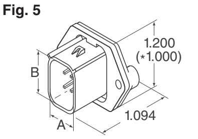

*WM17509-ND

Fig. 6

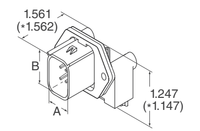

*WM17504-ND

Fig.	Circuits	AWG Range	Dim. A (Inches)	Digi-Key Part No.	Price Each 1	10	50	Molex Part No.
				Single Row — RoHS Compliant				
				Receptacle				
1	2	22-18	—	WM17407-ND	3.11	2.63	2.22	19418-0016
		16-14		WM17408-ND	3.11	2.63	2.22	19418-0017
				Plug				
2	2	22-18	—	WM17417-ND	3.11	2.63	2.22	19419-0008
		16-14		WM17418-ND	3.11	2.63	2.22	19419-0007
				Double Row				
				Receptacle				
3	4	22-18	.872	WM17409-ND◆	4.16	3.52	2.96	19418-0018
		16-14		WM17410-ND◆	4.16	3.52	2.96	19418-0019
	6	22-18	1.102	WM17411-ND	6.04	5.11	4.30	19418-0020-P
		16-14		WM17412-ND◆	6.04	5.11	4.30	19418-0021
	8	22-18	1.332	WM17413-ND◆	7.13	6.04	5.08	19418-0022
		16-14		WM17414-ND◆	7.13	6.04	5.08	19418-0023
	10	22-18	1.562	WM17415-ND◆	8.75	7.41	6.23	19418-0024
		16-14		WM17416-ND	8.75	7.41	6.23	19418-0025
				Plug				
4	4	22-18	.746	WM17419-ND◆	4.16	3.52	2.96	19419-0005
		16-14		WM17420-ND◆	4.16	3.52	2.96	19419-0004
	6	22-18	.976	WM17421-ND◆	6.04	5.11	4.30	19419-0012
		16-14		WM17422-ND◆	6.04	5.11	4.30	19419-0011
	8	22-18	1.206	WM17423-ND◆	7.13	6.04	5.08	19419-0001
		16-14		WM17424-ND	7.13	6.04	5.08	19419-0002
	10	22-18	1.436	WM17425-ND	8.84	7.48	6.29	19419-0015
		16-14		WM17426-ND	8.75	7.41	6.23	19419-0014

◆ ***RoHS Compliant***

Vertical and Right Angle Headers

Fig.	Circuits	Dim. A (Inches)	Dim. B (Inches)	Digi-Key Part No.	Price Each 1	10	50	Molex Part No.
				Vertical				
5	2	.634	.504	WM17509-ND	2.35	1.99	1.68	19428-0009
	4	.634	.754	WM17510-ND	3.09	2.62	2.20	19428-0011
	6	.864	.754	WM17511-ND	3.56	3.02	2.54	19428-0012
	8	1.092	.754	WM17512-ND	4.08	3.46	2.91	19428-0013
	10	1.324	.754	WM17513-ND	4.67	3.95	3.33	19428-0014
				Right Angle				
6	2	.632	.504	WM17504-ND	3.05	2.59	2.18	19427-0040
	4	.634	.754	WM17505-ND	3.75	3.18	2.67	19427-0032
	6	.864	.754	WM17506-ND	4.34	3.67	3.09	19427-0018
	8	1.092	.754	WM17507-ND	4.89	4.14	3.48	19427-0017
	10	1.324	.754	WM17508-ND	5.66	4.79	4.03	19427-0031

Contacts (Pre-tin) and Tools

Description	Wire Size AWG	Digi Key Part No.	Pricing 10	100	500	Molex Part No.
Socket	22-18	WM17427-ND	2.41	19.30	80.41	19420-0010
Pin		WM17429-ND	2.41	19.30	80.41	19417-0048
Socket	16-14	WM17428-ND	2.41	19.30	80.41	19420-0009
Pin		WM17430-ND	2.41	19.30	80.41	19417-0047
Keying Plug for MX Series		WM17431-ND		3.15/10		19417-0119
Crimp Tool (Prototype)		WM17483-ND		41.34/1		64016-0035
Crimp Tool (Ratcheting)		WM17484-ND		366.34/1		63811-4400
Extraction Tool		WM17434-ND		22.90/1		63813-1500

Trim Trio Connection System

Fig. 1 – Cable Plug

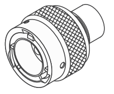

Male shown

Fig. 2 – Wall Mount Receptacle

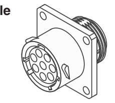

Female – Shown with flange

Fig. 3 – Jam Nut Receptacle

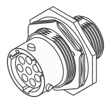

Male shown

Fig. 4 – Cable Plug

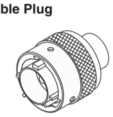

Male shown

Fig. 5 – Wall Mount Receptacle

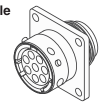

Female – Shown with flange

Fig. 6 – Cable Plug

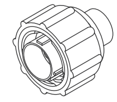

Male shown

Fig. 7 – Cable Plug

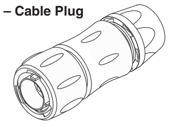

Male shown

Fig. 8 – Plug Connector

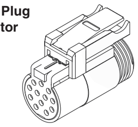

Female shown

Fig. 9 – Receptacle Connector

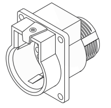

Male shown

Fig. 10 – Strain Relief

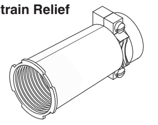

Fig. 11 – Cable Plug

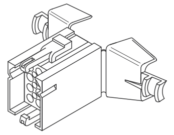

Shown with strain relief

Fig. 12 – Panel Mount Receptacle

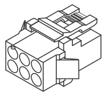

Shown without strain relief

Fig. 13 – Cable Plug

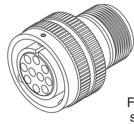

Female shown

Fig. 14 – Receptacle

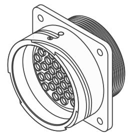

Male shown

Fig. 15 – Cable Clamp

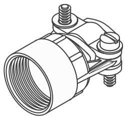

Fig. 16 – Cable Clamp

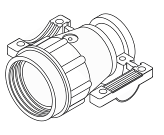

Metal Circular Bayonet Dynamic Sealing – IP67/IP68K

UTO/UTOW Series

Features: • Full Metal Bayonet Coupling • UTO Series is intermatable with UTG, UTP and UTS Series • Derived from MIL-C-26482 • 500 mating-unmating cycles • Salt spray resistant up to 48 hours **Specifications:** • **Shells:** Zinc alloy-shielded • **Coupling Ring:** Aluminum alloy • **Operating Temperature:** -40°C ~ 105°C

Fig.	No. of Pos./ Contact Size‡	Shell Size	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Souriau Part No.
			UT0 Series				
1	4 / #16	10	Plug for sockets	SOU1032-ND	25.82	24.47	UT06104SH
			Plug for pins	SOU1033-ND	23.33	22.11	UT06104PH
2			Recept. for sockets	SOU1000-ND§	16.02	15.18	UT00104SH
			Recept. for pins	SOU1001-ND§	16.02	15.18	UT00104PH
3			Recept. for sockets	SOU1016-ND	23.92	22.67	UT07104SH
			Recept. for pins	SOU1017-ND	26.20	24.83	UT07104PH
1	8 / #16	12	Plug for sockets	SOU1034-ND	26.01	24.65	UT06128SH
			Plug for pins	SOU1035-ND	23.56	22.32	UT06128PH
2			Recept. for sockets	SOU1002-ND§	16.68	15.81	UT00128SH
			Recept. for pins	SOU1003-ND§	16.63	15.75	UT00128PH
3			Recept. for sockets	SOU1018-ND	24.87	23.57	UT07128SH
			Recept. for pins	SOU1019-ND	27.32	25.89	UT07128PH
1	12 / #16	14	Plug for sockets	SOU1036-ND	26.58	25.19	UT061412SH
			Plug for pins	SOU1037-ND	24.53	23.24	UT061412PH
2			Recept. for sockets	SOU1004-ND§	17.01	16.11	UT001412SH
			Recept. for pins	SOU1005-ND§	16.70	15.83	UT001412PH
3			Recept. for sockets	SOU1020-ND	25.52	24.18	UT071412SH
			Recept. for pins	SOU1021-ND	28.01	26.54	UT071412PH
1	19 / #16	16	Plug for sockets	SOU1038-ND	26.73	25.33	UT061619SH
			Plug for pins	SOU1039-ND	24.74	23.44	UT061619PH
2			Recept. for sockets	SOU1006-ND§	17.40	16.49	UT001619SH
			Recept. for pins	SOU1007-ND§	17.40	16.49	UT001619PH
3			Recept. for sockets	SOU1022-ND	26.20	24.83	UT071619SH
			Recept. for pins	SOU1023-ND	29.11	27.58	UT071619PH
1	23 / #16	18	Plug for sockets	SOU1040-ND	27.32	25.89	UT061823SH
			Plug for pins	SOU1041-ND	25.78	24.43	UT061823PH
2			Recept. for sockets	SOU1008-ND§	18.20	17.25	UT001823SH
			Recept. for pins	SOU1009-ND§	18.20	17.25	UT001823PH
3			Recept. for sockets	SOU1024-ND	27.42	25.98	UT071823SH
			Recept. for pins	SOU1025-ND	30.12	28.53	UT071823PH
1	28 / #16	20	Plug for sockets	SOU1042-ND	27.55	26.10	UT062028SH
			Plug for pins	SOU1043-ND	27.68	26.23	UT062028PH
2			Recept. for sockets	SOU1010-ND§	19.74	18.71	UT002028SH
			Recept. for pins	SOU1011-ND§	19.74	18.71	UT002028PH
3			Recept. for sockets	SOU1026-ND	32.66	30.95	UT072028SH
			Recept. for pins	SOU1027-ND	32.66	30.95	UT072028PH
1	35 / #16	22	Plug for sockets	SOU1044-ND	28.31	26.82	UT062235SH
			Plug for pins	SOU1045-ND	28.31	26.82	UT062235PH
2			Recept. for sockets	SOU1012-ND§	20.62	19.53	UT002235SH
			Recept. for pins	SOU1013-ND§	20.62	19.53	UT002235PH
3			Recept. for sockets	SOU1028-ND	33.99	32.21	UT072235SH
			Recept. for pins	SOU1029-ND	33.97	32.19	UT072235PH
1	48 / #16	24	Plug for sockets	SOU1046-ND	30.31	28.71	UT062448SH
			Plug for pins	SOU1047-ND	30.19	28.61	UT062448PH
2			Recept. for sockets	SOU1014-ND§	21.49	20.36	UT002448SH
			Recept. for pins	SOU1015-ND§	21.41	20.29	UT002448PH
3			Recept. for sockets	SOU1030-ND	35.38	33.52	UT072448SH
			Recept. for pins	SOU1031-ND	35.36	33.50	UT072448PH
			UT0W Series — High Density				
1	6 / #20	10	Plug for sockets	SOU1076-ND	30.59	28.98	UT0W6106SH
			Plug for pins	SOU1077-ND	23.26	22.04	UT0W6106PH
2			Recept. for sockets	SOU1064-ND§	20.75	19.66	UT0W0106SH
			Recept. for pins	SOU1065-ND§	16.07	15.23	UT0W0106PH
3			Recept. for sockets	SOU1070-ND	31.41	29.76	UT0W7106SH
			Recept. for pins	SOU1071-ND	34.56	32.75	UT0W7106PH

Fig.	No. of Pos./ Contact Size‡	Shell Size	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Souriau Part No.
1	10 / #20	12	Plug for sockets	SOU1078-ND	30.97	29.34	UT0W61210SH
			Plug for pins	SOU1079-ND	24.05	22.79	UT0W61210PH
2			Recept. for sockets	SOU1066-ND§	21.36	20.24	UT0W01210SH
			Recept. for pins	SOU1067-ND§	16.74	15.86	UT0W01210PH
3			Recept. for sockets	SOU1072-ND	32.45	30.75	UT0W71210SH
			Recept. for pins	SOU1073-ND	35.09	33.25	UT0W71210PH
1	19 / #20	14	Plug for sockets	SOU1080-ND	31.27	29.63	UT0W61419SH
			Plug for pins	SOU1081-ND	24.13	22.86	UT0W61419PH
2			Recept. for sockets	SOU1068-ND§	21.68	20.54	UT0W01419SH
			Recept. for pins	SOU1069-ND§	17.01	16.11	UT0W01419PH
3			Recept. for sockets	SOU1074-ND	32.98	31.25	UT0W71419SH
			Recept. for pins	SOU1075-ND	36.39	34.47	UT0W71419PH

‡ See Trim Trio Contact section for contacts § Square flange sealing sold separately

Plastic with Metal Ring Circular Bayonet – IP65/IP67

UTG Series

Features: • Full Metal Bayonet Coupling • Intermatable with UTO, UTP and UTS Series • 500 mating-unmating cycles **Specifications:** • **Shells:** Glass filled thermoplastic UL94-V0 • **Coupling Ring:** Nickel plated brass • **Operating Temperature:** -55°C ~ 125°C

Fig.	No. of Pos./ Contact Size‡	Shell Size	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Souriau Part No.
4	4 / #16	10	Plug for sockets	SOU1082-ND	12.65	11.99	UTG6104SN
			Plug for pins	SOU1083-ND	12.48	11.83	UTG6104PN
5			Recept. for sockets	SOU1104-ND§	7.05	6.68	UTG0104S
			Recept. for pins	SOU1105-ND§	7.13	6.75	UTG0104P
4	8 / #16	12	Plug for sockets	SOU1084-ND	11.04	10.46	UTG6128SN
			Plug for pins	SOU1085-ND	12.88	12.21	UTG6128PN
5			Recept. for sockets	SOU1106-ND§	7.16	6.79	UTG0128S
			Recept. for pins	SOU1107-ND§	7.41	7.02	UTG0128P
			Recept. for pins	SOU1097-ND†	5.43	5.15	UTG1128P
4	12 / #16	14	Plug for sockets	SOU1086-ND	12.14	11.51	UTG61412SN
			Plug for pins	SOU1087-ND	12.26	11.61	UTG61412PN
5			Recept. for sockets	SOU1108-ND§	7.39	7.01	UTG01412S
			Recept. for pins	SOU1109-ND§	7.24	6.86	UTG01412P
			Recept. for sockets	SOU1098-ND†	5.87	5.57	UTG11412S
			Recept. for pins	SOU1099-ND†	5.87	5.57	UTG11412P
4	19 / #16	16	Plug for pins	SOU1088-ND	14.74	13.97	UTG61619PN
5			Recept. for sockets	SOU1110-ND§	8.65	8.19	UTG01619S
			Recept. for pins	SOU1111-ND§	8.66	8.21	UTG01619P
			Recept. for sockets	SOU1100-ND†	6.86	6.50	UTG11619S
			Recept. for pins	SOU1101-ND†	6.86	6.50	UTG11619P
4	23 / #16	18	Plug for sockets	SOU1089-ND	15.87	15.03	UTG61823SN
			Plug for pins	SOU1090-ND	15.49	14.67	UTG61823PN
5			Recept. for sockets	SOU1112-ND§	8.95	8.48	UTG01823S
			Recept. for pins	SOU1113-ND§	8.15	7.73	UTG01823P
			Recept. for sockets	SOU1002-ND†	16.68	15.81	UTG11823S
4	28 / #16	20	Plug for sockets	SOU1091-ND	17.90	16.96	UTG62028SN
			Plug for pins	SOU1092-ND	18.56	17.59	UTG62028PN
5			Recept. for sockets	SOU1114-ND§	11.55	10.95	UTG02028S
			Recept. for pins	SOU1115-ND§	11.72	11.11	UTG02028P
4	35 / #16	22	Plug for sockets	SOU1093-ND	24.34	23.06	UTG62235SN
			Plug for pins	SOU1094-ND	24.15	22.88	UTG62235PN
5			Recept. for sockets	SOU1116-ND§	13.17	12.48	UTG02235S
			Recept. for pins	SOU1117-ND§	13.21	12.51	UTG02235P
			Recept. for pins	SOU1103-ND†	13.53	12.82	UTG12235P
4	48 / #16	24	Plug for sockets	SOU1095-ND	23.96	22.70	UTG62448SN
			Plug for pins	SOU1096-ND	24.21	22.94	UTG62448PN
5			Recept. for sockets	SOU1118-ND§	10.07	9.54	UTG02448S
			Recept. for pins	SOU1119-ND§	14.12	13.38	UTG02448P
4	3 / #12	12	Plug for pins	SOU1122-ND	9.63	9.13	UTG6123PN
5			Recept. for sockets	SOU1120-ND§	6.21	5.89	UTG0123SH
4	4 / #8	24	Plug for sockets	SOU1123-ND	20.12	19.07	UTG62411SN
5	7 / #16		Recept. for pins	SOU1121-ND§	14.73	13.95	UTG02411PH

‡ See Trim Trio Contact section for contacts § Square flange sealing sold separately
† Free hanging receptacle does not have mounting flange for wire to wire applications

(Continued)

SOURIAU
Connection Technology

Trim Trio Connection System *(Cont.)*

RoHS

All Plastic Circular Bayonet – IP65/IP67

UTP Series

Features: • Plastic Bayonet Coupling • Intermatable with UTO, UTG and UTS Series • 250 mating-unmating cycles **Specifications:** • **Shell and Coupling Ring:** Glass filled black thermoplastic UL94-V0 • **Operating Temperature:** -55°C ~ 125°C

Fig.	No. of Pos./ Contact Size‡	Shell Size	Description	Digi-Key Part No.	Price Each 1	10	Souriau Part No.
6	4 / #16	10	Plug for sockets	SOU1155-ND	11.51	10.91	UTP6104S
			Plug for pins	SOU1156-ND	11.51	10.91	UTP6104P
2			Recept. for sockets	SOU1139-ND§	5.13	4.86	UTP0104S
			Recept. for pins	SOU1140-ND§	5.13	4.86	UTP0104P
6	8 / #16	12	Plug for sockets	SOU1157-ND	11.86	11.24	UTP6128S
			Plug for pins	SOU1158-ND	11.86	11.24	UTP6128P
2			Recept. for sockets	SOU1141-ND§	5.40	5.12	UTP0128S
			Recept. for pins	SOU1142-ND§	5.40	5.12	UTP0128P
6	12 / #16	14	Plug for sockets	SOU1159-ND	12.69	12.03	UTP61412S
			Plug for pins	SOU1160-ND	12.69	12.03	UTP61412P
2			Recept. for sockets	SOU1143-ND§	6.95	6.59	UTP01412S
			Recept. for pins	SOU1144-ND§	6.95	6.59	UTP01412P
6	19 / #16	16	Plug for sockets	SOU1161-ND	13.36	12.66	UTP61619S
			Plug for pins	SOU1162-ND	13.36	12.66	UTP61619P
2			Recept. for sockets	SOU1145-ND§	8.47	8.03	UTP01619S
			Recept. for pins	SOU1146-ND§	8.47	8.03	UTP01619P
6	23 / #16	18	Plug for sockets	SOU1163-ND	9.31	8.82	UTP61823S
			Plug for pins	SOU1164-ND	9.31	8.82	UTP61823P
2			Recept. for sockets	SOU1147-ND§	5.23	4.95	UTP01823S
			Recept. for pins	SOU1148-ND§	5.23	4.95	UTP01823P
6	28 / #16	20	Plug for sockets	SOU1165-ND	15.20	14.40	UTP62028S
			Plug for pins	SOU1166-ND	15.20	14.40	UTP62028P
2			Recept. for sockets	SOU1149-ND§	9.65	9.15	UTP02028S
			Recept. for pins	SOU1150-ND§	9.65	9.15	UTP02028P
6	35 / #16	22	Plug for sockets	SOU1167-ND	15.43	14.62	UTP62235S
			Plug for pins	SOU1168-ND	15.43	14.62	UTP62235P
2			Recept. for sockets	SOU1151-ND§	9.92	9.40	UTP02235S
			Recept. for pins	SOU1152-ND§	9.92	9.40	UTP02235P
6	48 / #16	24	Plug for sockets	SOU1169-ND	15.71	14.89	UTP62448S
			Plug for pins	SOU1170-ND	15.71	14.89	UTP62448P
2			Recept. for sockets	SOU1153-ND§	11.40	10.80	UTP02448S
			Recept. for pins	SOU1154-ND§	11.40	10.80	UTP02448P

‡ See Trim Trio Contact section for contacts § Square flange sealing sold separately

All Plastic Circular Bayonet – Dynamic Sealing IP68/IP69K

UTS Series

Features: • Plastic Bayonet Coupling • 250 mating-unmating cycles • Salt spray resistant up to 500 hours • Cable mount includes backshell **Specifications:** • **Shell and Coupling Ring:** Black thermoplastic UL94-V0 and NFF16101 level 2 • **Operating Temperature:** -40°C ~ 105°C • In accordance with UL requirements

Fig.	No. of Pos./ Contact Size‡	Shell Size	Description	Digi-Key Part No.	Price Each 1	10	Souriau Part No.
7	3 / #16	10	Plug for sockets	SOU1306-ND	13.43	12.73	UTS6JC103S
			Plug for pins	SOU1297-ND	12.37	11.72	UTS6JC103P
3			Recept. for sockets	SOU1279-ND	8.19	7.76	UTS7103S
			Recept. for pins	SOU1288-ND	8.99	8.52	UTS7103P
7	4 / #16	10	Plug for sockets	SOU1307-ND	13.51	12.80	UTS6JC104S
			Plug for pins	SOU1298-ND	12.75	12.08	UTS6JC104P
3			Recept. for sockets	SOU1280-ND	8.42	7.98	UTS7104S
			Recept. for pins	SOU1289-ND	9.04	8.57	UTS7104P
7	6 / #20	10	Plug for sockets	SOU1308-ND	15.05	14.26	UTS6JC106S
			Plug for pins	SOU1299-ND	13.89	13.16	UTS6JC106P
3			Recept. for sockets	SOU1281-ND	9.39	8.90	UTS7106S
			Recept. for pins	SOU1290-ND	10.13	9.60	UTS7106P
7	4 / #16	12	Plug for sockets	SOU1309-ND	13.11	12.42	UTS6JC124S
			Plug for pins	SOU1300-ND	13.11	12.42	UTS6JC124P
3			Recept. for sockets	SOU1282-ND	8.72	8.27	UTS7124S
			Recept. for pins	SOU1291-ND	8.72	8.27	UTS7124P
7	8 / #16	12	Plug for sockets	SOU1310-ND	13.11	12.42	UTS6JC128S
			Plug for pins	SOU1301-ND	13.11	12.42	UTS6JC128P
3			Recept. for sockets	SOU1283-ND	8.72	8.27	UTS7128S
			Recept. for pins	SOU1292-ND	8.72	8.27	UTS7128P
7	10 / #20	12	Plug for sockets	SOU1311-ND	15.54	14.73	UTS6JC1210S
			Plug for pins	SOU1302-ND	14.59	13.83	UTS6JC1210P
3			Recept. for sockets	SOU1287-ND	10.20	9.67	UTS71210S
			Recept. for pins	SOU1293-ND	10.83	10.26	UTS71210P
7	7 / #16	14	Plug for sockets	SOU1312-ND	13.45	12.75	UTS6JC147S
			Plug for pins	SOU1303-ND	13.40	12.69	UTS6JC147P
3			Recept. for sockets	SOU1284-ND	9.27	8.79	UTS7147S
			Recept. for pins	SOU1294-ND	8.61	8.16	UTS7147P
7	12 / #16	14	Plug for sockets	SOU1313-ND	13.72	13.00	UTS6JC1412S
			Plug for pins	SOU1304-ND	14.25	13.50	UTS6JC1412P
3			Recept. for sockets	SOU1285-ND	9.29	8.81	UTS71412S
			Recept. for pins	SOU1295-ND	8.93	8.46	UTS71412P
7	19 / #20	14	Plug for sockets	SOU1314-ND	14.76	13.99	UTS6JC1419S
			Plug for pins	SOU1305-ND	15.73	14.91	UTS6JC1419P
3			Recept. for sockets	SOU1286-ND	10.72	10.16	UTS71419S
			Recept. for pins	SOU1296-ND	10.49	9.94	UTS71419P

‡ See Trim Trio Contact section for contacts

UTS Accessories

Shell Size	Description	Digi-Key Part No.	Price Each 1	10	25	Souriau Part No.
10	Receptacle Dustcap	SOU1315-ND	4.43	4.20	4.08	UTS10DCG
	Plug Dustcap	SOU1318-ND	7.58	7.19	6.99	UTS610DCG
	Recept. Color Coding Ring-Red	SOU1321-ND	.74	.71	.68	UTS710CCRR
	Recept. Color Coding Ring-Green	SOU1322-ND	.74	.71	.68	UTS710CCRG
	Recept. Color Coding Ring-Yellow	SOU1323-ND	.74	.71	.68	UTS710CCRY
	Plug Color Coding Ring-Red	SOU1330-ND	.74	.71	.68	UTS610CCRR
	Plug Color Coding Ring-Green	SOU1331-ND	.74	.71	.68	UTS610CCRG
	Plug Color Coding Ring-Yellow	SOU1332-ND	.74	.71	.68	UTS610CCRY
12	Receptacle Dustcap	SOU1316-ND	6.02	5.71	5.55	UTS12DCG
	Plug Dustcap	SOU1319-ND	8.82	8.36	8.12	UTS612DCG
12	Recept. Color Coding Ring-Red	SOU1324-ND	.74	.71	.68	UTS712CCRR
	Recept. Color Coding Ring-Green	SOU1325-ND	.74	.71	.68	UTS712CCRG
	Recept. Color Coding Ring-Yellow	SOU1326-ND	.74	.71	.68	UTS712CCRY
	Plug Color Coding Ring-Red	SOU1333-ND	.74	.71	.68	UTS612CCRR
	Plug Color Coding Ring-Green	SOU1334-ND	.74	.71	.68	UTS612CCRG
	Plug Color Coding Ring-Yellow	SOU1335-ND	.74	.71	.68	UTS612CCRY
	Receptacle Dustcap	SOU1317-ND	5.07	4.81	4.68	UTS14DCG
	Plug Dustcap	SOU1320-ND	9.16	8.68	8.44	UTS614DCG
14	Recept. Color Coding Ring-Red	SOU1327-ND	.74	.71	.68	UTS714CCRR
	Recept. Color Coding Ring-Green	SOU1328-ND	.74	.71	.68	UTS714CCRG
	Recept. Color Coding Ring-Yellow	SOU1329-ND	.74	.71	.68	UTS714CCRY
	Plug Color Coding Ring-Red	SOU1336-ND	.74	.71	.68	UTS614CCRR
	Plug Color Coding Ring-Green	SOU1337-ND	.74	.71	.68	UTS614CCRG
	Plug Color Coding Ring-Yellow	SOU1338-ND	.74	.71	.68	UTS614CCRY

High Mating Cycle Circular – Quick Mate

MBG Series

Features: • Quick mate locking latch and hook • 5000 mating-unmating cycles **Specifications:** • **Shell:** Glass filled black thermoplastic UL94-V0 • **Latch and Hook:** Stainless steel, passivated • **Operating Temperature:** -55°C ~ 125°C

Fig.	No. of Pos. / Size‡	Description	Digi-Key Part No.	Price Each 1	10	25	Souriau Part No.
8	4 / #16	Plug for Sockets	SOU1192-ND	2.53	2.40	2.30	MBG4P1
		Plug for Pins	SOU1193-ND	9.01	8.54	8.30	MBG4P11
9		Recept. for Pins	SOU1194-ND	6.63	6.29	6.11	MBG4R1
		Recept. for Sockets	SOU1195-ND	3.06	2.90	2.82	MBG4R11
8	12 / #16	Plug for Sockets	SOU1171-ND	2.01	1.91	1.86	MBG12P1
		Plug for Pins	SOU1172-ND	9.56	9.06	8.81	MBG12P11
9		Recept. for Pins	SOU1173-ND	7.03	6.66	6.48	MBG12R1
		Recept. for Sockets	SOU1174-ND	3.27	3.10	3.01	MBG12R11
8	19 / #16	Plug for Sockets	SOU1176-ND	2.15	2.04	1.98	MBG19P1
		Plug for Pins	SOU1177-ND	10.12	9.59	9.32	MBG19P11
9		Recept. for Pins	SOU1178-ND	7.43	7.04	6.85	MBG19R1
		Recept. for Sockets	SOU1179-ND	2.57	2.43	2.37	MBG19R11
8	30 / #16	Plug for Sockets	SOU1181-ND	2.30	2.18	2.12	MBG30P1
		Plug for Pins	SOU1182-ND	7.87	7.46	7.25	MBG30P11
9		Recept. for Pins	SOU1183-ND	7.87	7.46	7.25	MBG30R1
		Recept. for Sockets	SOU1184-ND	3.78	3.59	3.49	MBG30R11
8	46 / #16	Plug for Sockets	SOU1187-ND	4.73	4.49	4.36	MBG46P1
		Plug for Pins	SOU1188-ND	7.30	6.92	6.72	MBG46P11
9		Recept. for Pins	SOU1189-ND	21.28	20.16	19.60	MBG46R1
		Recept. for Sockets	SOU1191-ND	7.66	7.26	7.06	MBG46R11

‡ See Trim Trio Contact section for contacts

MBG Accessories

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	25	Souriau Part No.
10	4	Strain Relief	SOU1196-ND	3.91	3.71	3.61	MBG4S1
	12	Strain Relief	SOU1175-ND	3.99	3.78	3.68	MBG12S1
	19	Strain Relief	SOU1180-ND	3.44	3.26	3.17	MBG19S1
	30	Strain Relief – Large	SOU1185-ND	6.40	6.07	5.90	MBG30S1
	30	Strain Relief – Small	SOU1186-ND	8.09	7.67	7.46	MBG30S2
	46	Strain Relief Adapter	SOU1190-ND†	10.72	10.16	9.87	MBG46S52

† Custom: To couple a 21-PG Cable Grips to 46 position

Self-Mounting Rectangular

SMS Series

Features: • Mating with positive lock • 500 mating-unmating cycles **Specifications:** • **Shell:** Polyamide 6.6 UL94-V2 • **Operating Temperature:** -55°C ~ 105°C

Fig.	No. of Pos. / Size‡	Description†	Digi-Key Part No.	Price Each 1	10	25	Souriau Part No.
11	2 / #16	Cable Plug	SOU1217-ND	1.38	1.30	1.25	SMS2P1
		Cable Plug w/SR	SOU1218-ND	1.82	1.72	1.65	SMS2PDH1
12		Cable Recept. w/SR	SOU1198-ND	1.92	1.82	1.77	SMS2RDH1
		Panel Mt. Recept.	SOU1197-ND	1.10	1.04	1.00	SMS2R1
11	3 / #16	Cable Plug	SOU1219-ND	1.38	1.30	1.25	SMS3P1
		Cable Plug w/SR	SOU1220-ND	1.90	1.80	1.75	SMS3PDH1
12		Cable Recept. w/SR	SOU1200-ND	2.13	2.02	1.96	SMS3RDH1
		Panel Mt. Recept.	SOU1199-ND	1.10	1.04	1.00	SMS3R1
11	4 / #16	Cable Plug	SOU1221-ND	.85	.81	.78	SMS4P1
		Cable Plug w/SR	SOU1222-ND	2.26	2.14	2.05	SMS4PDH1
12		Cable Recept. w/SR	SOU1202-ND	2.07	1.97	1.91	SMS4RDH1
		Panel Mt. Recept.	SOU1201-ND	1.10	1.04	1.00	SMS4R1
11	6 / #16	Cable Plug	SOU1223-ND	1.24	1.17	1.13	SMS6P1
		Cable Plug w/SR	SOU1224-ND	2.17	2.06	1.98	SMS6PDH1
12		Cable Recept. w/SR	SOU1204-ND	2.11	2.00	1.95	SMS6RDH1
		Panel Mt. Recept.	SOU1203-ND	1.65	1.56	1.50	SMS6R1
11	9 / #16	Cable Plug	SOU1225-ND	2.49	2.36	2.30	SMS9P1
		Cable Plug w/SR	SOU1226-ND	2.59	2.45	2.35	SMS9PDH1
12		Cable Recept. w/SR	SOU1206-ND	2.26	2.15	2.09	SMS9RDH1
		Panel Mt. Recept.	SOU1205-ND	2.06	1.95	1.88	SMS9R1
11	12 / #16	Cable Plug	SOU1227-ND	.80	.76	.73	SMS12P1
		Cable Plug w/SR	SOU1228-ND	2.04	1.93	1.85	SMS12PDH1
12		Cable Recept. w/SR	SOU1208-ND	2.43	2.31	2.24	SMS12RDH1
		Panel Mt. Recept.	SOU1207-ND	.80	.76	.73	SMS12R1
11	15 / #16	Cable Plug	SOU1229-ND	2.77	2.63	2.56	SMS15P1
		Cable Plug w/SR	SOU1230-ND	2.41	2.29	2.23	SMS15PDH1
12		Cable Recept. w/SR	SOU1210-ND	3.36	3.19	3.10	SMS15RDH1
		Panel Mt. Recept.	SOU1209-ND	2.28	2.16	2.08	SMS15R1
11	18 / #16	Cable Plug	SOU1231-ND	2.64	2.51	2.44	SMS18P1
		Cable Plug w/SR	SOU1232-ND	2.41	2.29	2.23	SMS18PDH1
12		Cable Recept. w/SR	SOU1212-ND	3.40	3.23	3.14	SMS18RDH1
		Panel Mt. Recept.	SOU1211-ND	2.15	2.03	1.95	SMS18R1
11	24 / #16	Cable Plug	SOU1233-ND	1.32	1.25	1.20	SMS24P1
		Cable Plug w/SR	SOU1234-ND	2.00	1.89	1.84	SMS24PDH1
12		Cable Recept. w/SR	SOU1214-ND	3.48	3.30	3.21	SMS24RDH1
		Panel Mt. Recept.	SOU1213-ND	1.87	1.77	1.70	SMS24R1
11	36 / #16	Cable Plug	SOU1235-ND	2.70	2.55	2.45	SMS36P1
		Cable Plug w/SR	SOU1236-ND	2.95	2.79	2.72	SMS36PDH1
12		Cable Recept. w/SR	SOU1216-ND	3.63	3.44	3.35	SMS36RDH1
		Panel Mt. Recept.	SOU1215-ND	2.15	2.03	1.95	SMS36R1

‡ See Trim Trio Contact section for contacts † SR = Strain Relief *(Continued)*

SOURIAU
Connection Technology

Trim Trio Connection System *(Cont.)*

Ruggedized Circular Reverse Bayonet – Dynamic Sealing IP68/IP69K

UTV Series

Features: • Reverse Bayonet Coupling • Intermountable with VG 95234: MS-5015 reverse bayonet • 500 mating-unmating cycles • Salt spray resistant up to 500 hours **Specifications:** • **Shell:** Aluminum alloy with black zinc cobalt plating • **Operating Temperature:** -55°C ~ 125°C

Fig.	No. of Pos. / Size‡	Description	Digi-Key Part No.	Price Each 1	10	25	Souriau Part No.
13	10 / #16	Cable Plug for Socket	SOU1275-ND	51.97	49.23	47.87	UTVD18-19SN
14		Recept. for Pin	SOU1273-ND	39.14	37.08	36.05	UTVB18-19PN
13	7 / #12	Cable Plug for Socket	SOU1276-ND	54.49	51.63	50.19	UTVD20-15SN
14		Recept. for Pin	SOU1274-ND	44.27	41.94	40.78	UTVB20-15PN
13	35 / #12	Cable Plug for Socket	SOU1278-ND	95.93	90.89	88.36	UTVD40A35PN
14		Recept. for Pin	SOU1277-ND	70.32	66.62	64.77	UTVB40A35PN

‡ See Trim Trio Contact section for contacts

Trim Trio Accessories

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Souriau Part No.
Cable Clamp for UTO and UTOW						
15	#10 Cable Clamp Metal	SOU1048-ND	14.42	13.67	13.29	UT010AC
—	#10 Cable Clamp Metal - IP68	SOU1053-ND†	17.01	16.11	15.67	UT010JCS
15	#12 Cable Clamp Metal	SOU1049-ND	14.99	14.21	13.81	UT012AC
—	#12 Cable Clamp Metal - IP68	SOU1054-ND†	17.56	16.64	16.17	UT012JCS
15	#14 Cable Clamp Metal	SOU1050-ND	15.64	14.82	14.41	UT014AC
—	#14 Cable Clamp Metal - IP68	SOU1055-ND†	20.60	19.52	18.97	UT014JCS
15	#16 Cable Clamp Metal	SOU1499-ND	11.65	11.04	10.73	UT016AC
—	#16 Cable Clamp Metal - IP68	SOU1056-ND§†	23.79	22.54	21.91	UT016JC
15	#18 Cable Clamp Metal	SOU1051-ND	16.25	15.39	14.97	UT018AC
—	#18 Cable Clamp Metal - IP68	SOU1057-ND§†	25.48	24.14	23.47	UT018JCL
15	#20 Cable Clamp Metal	SOU1500-ND	13.93	13.20	12.83	UT020AC
—	#20 Cable Clamp Metal - IP68	SOU1502-ND†	20.14	19.08	18.55	UT020JCS
15	#22 Cable Clamp Metal	SOU1501-ND	18.37	17.41	16.93	UT022AC
—	#22 Cable Clamp Metal - IP68	SOU1503-ND†	24.62	23.33	22.68	UT022JCS
15	#24 Cable Clamp Metal	SOU1052-ND	22.29	21.12	20.53	UT024AC
—	#24 Cable Clamp Metal - IP68	SOU1504-ND†	31.24	29.60	28.77	UT024JCS
Cable Clamp for UTG and UTP						
16	#10 Cable Clamp	SOU1124-ND	7.39	7.01	6.81	UTG10AC
—	#10 Cable Clamp - IP65	SOU1131-ND†	9.06	8.59	8.35	UTG10PG
16	#12 Cable Clamp	SOU1125-ND	8.17	7.74	7.53	UTG12AC
—	#12 Cable Clamp - IP65	SOU1132-ND†	10.58	10.03	9.75	UTG12PG
16	#14 Cable Clamp	SOU1498-ND	9.06	8.59	8.35	UTG14AC
—	#14 Cable Clamp - IP65	SOU1133-ND†	10.89	10.32	10.03	UTG14PG
16	#16 Cable Clamp	SOU1126-ND	8.66	8.21	7.98	UTG16AC
—	#16 Cable Clamp - IP65	SOU1134-ND†	11.88	11.25	10.94	UTG16PG
16	#18 Cable Clamp	SOU1127-ND	6.14	5.82	5.66	UTG18AC
—	#18 Cable Clamp - IP65	SOU1135-ND†	12.39	11.74	11.41	UTG18PG
16	#20 Cable Clamp	SOU1128-ND	10.36	9.81	9.54	UTG20AC
—	#20 Cable Clamp - IP65	SOU1136-ND†	13.89	13.16	12.80	UTG20PG
16	#22 Cable Clamp	SOU1129-ND	10.53	9.98	9.70	UTG22AC
—	#22 Cable Clamp - IP65	SOU1137-ND†	14.33	13.58	13.20	UTG22PG
16	#24 Cable Clamp	SOU1130-ND	12.01	11.38	11.06	UTG24AC
—	#24 Cable Clamp - IP65	SOU1138-ND†	12.67	12.01	11.68	UTG24PG
Sealing Gasket for UTO, UTOW, UTG, and UTP						
—	#10 Sealing for Wall Mt. Recept.	SOU1058-ND	2.56	2.42	2.33	UTFD12B
	#12 Sealing for Wall Mt. Recept.	SOU1059-ND	2.22	2.11	2.05	UTFD13B
	#14 Sealing for Wall Mt. Recept.	SOU1060-ND	2.17	2.06	1.98	UTFD14B
	#16 Sealing for Wall Mt. Recept.	SOU1061-ND	2.07	1.97	1.91	UTFD15B
	#18 Sealing for Wall Mt. Recept.	SOU1062-ND	2.34	2.21	2.13	UTFD16B
	#20 Sealing for Wall Mt. Recept.	SOU1505-ND	2.01	1.90	1.83	UTFD17B
	#22 Sealing for Wall Mt. Recept.	SOU1506-ND	2.01	1.90	1.83	UTFD18B
	#24 Sealing for Wall Mt. Recept.	SOU1063-ND	1.87	1.77	1.70	UTFD19B

§ Long Version † For water protected applications

Trim Trio Contacts

Type	AWG	Plating	Digi-Key Part No.	Pricing 1	10	25	100	Souriau Part No.
#8 Machined Solder Contacts								
Socket	12-8	Gold	SOU1246-ND	5.23	49.50	120.31	398.75	82911684ZX
Pin			SOU1245-ND	5.04	47.70	115.94	384.25	82911685NZX
#12 Machined Solder Contacts								
Socket	14-12	Gold	SOU1244-ND	4.56	43.20	105.00	348.00	RC12Z43D28
Pin			SOU1243-ND	4.28	40.50	98.44	326.25	RM12Z43D28
#16 Machined Crimp Contacts and Coaxial								
Socket	20-16	Gold	SOU1237-ND	2.61	24.70	59.38	180.50	RC16M23D28
Pin	20-16		SOU1238-ND	1.65	15.60	37.50	114.00	RM16M23D28
Socket	22-20		SOU1239-ND	2.47	23.40	56.88	188.50	RC20M12D28
Pin	22-20		SOU1240-ND	2.64	24.96	60.00	182.40	RM20M12D28
Socket	Coax. Kit Multi pc. RG-174U/188U Gold		SOU1241-ND	9.98	94.50	229.69	761.25	RCDXK1D28
Pin	Coax. Kit Multi pc. RG-174U/188U Gold		SOU1242-ND	9.98	94.50	229.69	761.25	RMDXK10D28

Type	AWG	Plating	Digi-Key Part No.	Loose Piece Pricing 25	100	Souriau Part No.	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Souriau Part No.
#16 Stamped and Formed Crimp Contacts													
Socket	14	30µ" Gold	SOU1247-ND	28.13	85.50	SC14ML1S6	SOU1247CT-ND	11.80	52.21	86.26	SOU1247TR-ND	602.00/M	SC14M1S6
Pin		30µ" Gold	SOU1251-ND	25.00	76.00	SM14ML1S6	SOU1251CT-ND	10.50	46.46	76.76	SOU1251TR-ND	490.00/M	SM14M1S6
Socket		Tin	SOU1255-ND	11.88	36.10	SC14ML1TK6	SOU1255CT-ND	5.04	22.31	36.86	SOU1255TR-ND	210.00/M	SC14M1TK6
Pin		Tin	SOU1259-ND	9.38	28.50	SM14ML1TK6	SOU1259CT-ND	4.00	17.71	29.26	SOU1259TR-ND	182.00/M	SM14M1TK6
Socket	18-16	30µ" Gold	SOU1248-ND	28.13	85.50	SC16ML1S6	SOU1248CT-ND	11.80	52.21	86.26	SOU1248TR-ND	602.00/M	SC16M1S6
Pin		30µ" Gold	SOU1252-ND	25.00	76.00	SM16ML1S6	SOU1252CT-ND	10.50	46.46	76.76	SOU1252TR-ND	490.00/M	SM16M1S6
Socket		Tin	SOU1256-ND	11.88	36.10	SC16ML1TK6	SOU1256CT-ND	5.04	22.31	36.86	SOU1256TR-ND	210.00/M	SC16M1TK6
Pin		Tin	SOU1260-ND	9.38	28.50	SM16ML1TK6	SOU1260CT-ND	4.00	17.71	29.26	SOU1260TR-ND	182.00/M	SM16M1TK6
Socket	22-20	30µ" Gold	SOU1249-ND	28.13	85.50	SC20ML1S6	SOU1249CT-ND	11.80	52.21	86.26	SOU1249TR-ND	546.00/M	SC20M1S6
Pin		30µ" Gold	SOU1253-ND	25.00	76.00	SM20ML1S6	SOU1253CT-ND	10.50	46.46	76.76	SOU1253TR-ND	490.00/M	SM20M1S6
Socket		Tin	SOU1257-ND	11.88	36.10	SC20ML1TK6	SOU1257CT-ND	5.04	22.31	36.86	SOU1257TR-ND	210.00/M	SC20M1TK6
Pin		Tin	SOU1261-ND	9.38	28.50	SM20ML1TK6	SOU1261CT-ND	4.00	17.71	29.26	SOU1261TR-ND	182.00/M	SM20M1TK6
Socket	26-24	30µ" Gold	SOU1250-ND	28.13	85.50	SC24ML1S6	SOU1250CT-ND	11.80	52.21	86.26	SOU1250TR-ND	546.00/M	SC24M1S6
Pin		30µ" Gold	SOU1254-ND	25.00	76.00	SM24ML1S6	SOU1254CT-ND	10.50	46.46	76.76	SOU1254TR-ND	490.00/M	SM24M1S6
Socket		Tin	SOU1258-ND	11.88	36.10	SC24ML1TK6	SOU1258CT-ND	5.04	22.31	36.86	SOU1258TR-ND	210.00/M	SC24M1TK6
Pin		Tin	SOU1262-ND	9.38	28.50	SM24ML1TK6	SOU1262CT-ND	4.00	17.71	29.26	SOU1262TR-ND	168.00/M	SM24M1TK6
#20 Stamped and Formed Crimp Contact													
Socket	22-20	30µ" Gold	SOU1265-ND	8.75	26.60	SC20WL3S25	SOU1265CT-ND	3.74	16.56	27.36	SOU1265TR-ND	168.00/M	SC20W3S25
Pin		30µ" Gold	SOU1266-ND	9.38	28.50	SM20WL3S26	SOU1266CT-ND	4.00	17.71	29.26	SOU1266TR-ND	168.00/M	SM20W3S26
Socket		Tin	SOU1269-ND	6.25	19.00	SC20WL3TK6	—	—	—	—	—	—	—
Pin		Tin	SOU1271-ND	6.25	19.00	SM20WL3TK6	—	—	—	—	—	—	—
Socket	26-24	30µ" Gold	SOU1267-ND	8.75	26.60	SC24WL3S25	SOU1267CT-ND	3.74	16.56	27.36	SOU1267TR-ND	168.00/M	SC24W3S25
Pin		30µ" Gold	SOU1268-ND	9.38	28.50	SM24WL3S26	SOU1268CT-ND	4.00	17.71	29.26	SOU1268TR-ND	168.00/M	SM24W3S26
Socket		Tin	SOU1270-ND	6.25	19.00	SC24WL3TK6	—	—	—	—	—	—	—
Pin		Tin	SOU1272-ND	6.25	19.00	SM24WL3TK6	—	—	—	—	—	—	—

Crimp Tools

Description	Digi-Key Part No.	Price Each	Souriau Part No.
Crimp with Die for #16-20 Stamped Contacts 26-14AWG	SOU1263-ND	282.15	Y14MTV
Extraction Tool for all size 16 Contacts	SOU1264-ND	42.09	RX2025GE1

ASTRO TOOL CORP.
CONNECTOR ASSEMBLY TOOLING

Tools

Used with Souriau Tim Trio Machined Contacts.

The 616336 crimp tool can be used with RC/RM contacts. The 615717 and 615708 are for the RC(M)DXK coaxial contacts.

Requires both tools for an inner contact crimp and an outer ferrule crimp.

Description	Digi-Key Part No.	Price Each	Astro Part No.
Crimp without Positioner for #16 Machined Contacts	616336-ND	282.96	616336
Positioner for 616336 Tool Frame	TGV702-ND	102.41	TGV702
Crimp without Positioner for Inner Crimp Coaxial Contacts	615717-ND	282.96	615717
Positioner for 615717 Tool Frame	620100-ND	46.62	620100
Crimp without Turret for Outer Crimp Coaxial Contacts	615708-ND	282.96	615708
Turret Head for 615708 Tool Frame	620439-ND	74.21	620439

SOURIAU
Connection Technology

8D/D38999 Aluminum and Composite Connectors

Applications: • Aeronautics and military • Marine and offshore • Industrial

Features: • High contact density up to 128 contacts #22D • Quick screw coupling with self locking mechanism • Composite shell is recommended wherever weight is critical (typically -30% versus aluminum version) or particularly in harsh climatic and mechanical environments

Specifications: • **Endurance:** 500 mating-unmating operations • **Aluminum Shell Temperature Range:** Cadmium olive drab (W): -65°C ~ 175°C; Nickel (F): -65°C ~ 200°C • **Composite Shell Temperature Range:** Cadmium olive drab (J): -65°C ~ 175°C; Nickel (M): -65°C ~ 200°C

Fig. 1 — Square Flange Receptacle

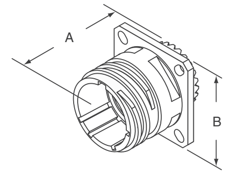

Fig. 2 — Jam Nut Receptacle

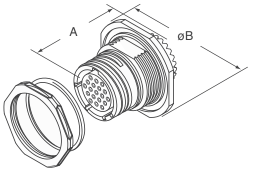

Fig. 3 — Plug with RF1 Shielding

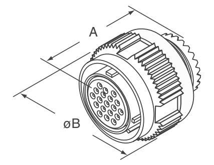

Insert Patterns ***(Front face of pin insert shown)***
Drawings not to scale

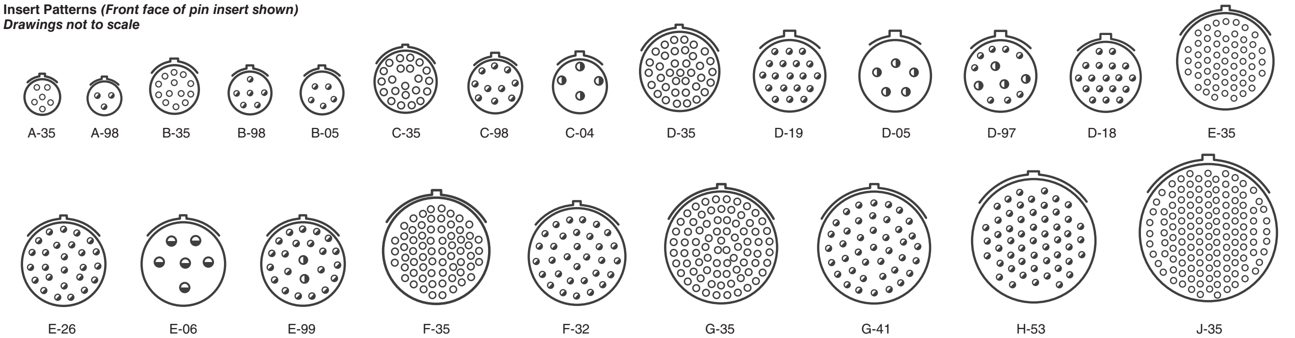

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Plating	Description	Dimensions (mm)		Digi-Key Part No.	Price Each	
					A	B		1	10
Aluminum									
1	A-35	6/22D	Nickel	Recept. with Pins	31.50	23.80	SOU1339-ND	57.38	54.36
1			Nickel	Recept. with Socket	31.50	23.80	SOU1340-ND	49.57	46.97
1			Olive drab	Recept. with Socket	31.50	23.80	SOU1362-ND	57.49	54.47
1			Olive drab	Recept. with Socket	31.50	23.80	SOU1363-ND	53.22	50.42
2			Olive drab	Recept. with Pins	32.50	30.50	SOU1389-ND	43.57	41.28
2			Olive drab	Recept. with Socket	32.50	30.50	SOU1390-ND	51.03	48.35
3			Nickel	Plug with Pins	31.00	21.80	SOU1410-ND	53.52	50.71
3			Nickel	Plug with Socket	31.00	21.80	SOU1411-ND	45.07	42.70
3			Olive drab	Plug with Pins	31.00	21.80	SOU1440-ND	55.54	52.62
3			Olive drab	Plug with Socket	31.00	21.80	SOU1441-ND	51.07	48.39
1	A-98	3/20	Olive drab	Recept. with Pins	31.50	23.80	SOU1364-ND	58.33	55.26
1			Olive drab	Recept. with Pins	31.50	23.80	SOU1365-ND	40.24	38.13
1			Olive drab	Recept. with Socket	31.50	23.80	SOU1366-ND	47.96	45.44
2			Olive drab	Recept. with Pins	32.50	30.50	SOU1391-ND	57.95	54.90
2			Olive drab	Recept. with Pins	32.50	30.50	SOU1392-ND	51.98	49.25
2			Olive drab	Recept. with Socket	32.50	30.50	SOU1393-ND	50.12	47.49
3			Nickel	Plug with Socket	31.00	21.80	SOU1412-ND	59.11	56.00
3			Nickel	Plug with Socket	31.00	21.80	SOU1413-ND	44.73	42.38
3			Olive drab	Plug with Pins	31.00	21.80	SOU1442-ND	52.02	49.29
1	B-35	13/22D	Nickel	Recept. with Pins	31.50	26.20	SOU1342-ND	44.19	41.87
1			Nickel	Recept. with Socket	31.50	26.20	SOU1343-ND	43.40	41.12
1			Olive drab	Recept. with Pins	31.50	26.20	SOU1367-ND	53.85	51.02
1			Olive drab	Recept. with Socket	31.50	26.20	SOU1369-ND	52.44	49.68
2			Nickel	Recept. with Pins	32.50	35.20	SOU1388-ND	55.42	52.51
2			Olive drab	Recept. with Pins	32.50	35.20	SOU1394-ND	45.94	43.53
2			Olive drab	Recept. with Socket	32.50	35.20	SOU1395-ND	45.98	43.56
2			Olive drab	Recept. with Socket	32.50	35.20	SOU1396-ND	45.81	43.40
3			Nickel	Plug with Pins	31.00	25.00	SOU1414-ND	49.67	47.06
3			Nickel	Plug with Socket	31.00	25.00	SOU1415-ND	51.07	48.39
3			Olive drab	Plug with Socket	31.00	25.00	SOU1443-ND	58.73	55.64
3			Olive drab	Plug with Socket	31.00	25.00	SOU1444-ND	58.73	55.64
2	B-98	6/20	Olive drab	Recept. with Pins	32.50	35.20	SOU1397-ND	52.57	49.81
2			Olive drab	Recept. with Socket	32.50	35.20	SOU1398-ND	51.78	49.05
3			Nickel	Plug with Socket	31.00	25.00	SOU1417-ND	53.18	50.39
3			Olive drab	Plug with Pins	31.00	25.00	SOU1446-ND	57.57	54.54
3	B-05	5/20	Nickel	Plug with Socket	31.00	25.00	SOU1416-ND	68.61	65.00
3			Olive drab	Plug with Socket	31.00	25.00	SOU1445-ND	69.27	65.63
1	C-35	22/22D	Nickel	Recept. with Pins	31.50	28.60	SOU1344-ND	58.33	55.26
1			Olive drab	Recept. with Pins	31.50	28.60	SOU1370-ND	67.28	63.74
1			Olive drab	Recept. with Pins	31.50	28.60	SOU1371-ND	46.44	44.00
1			Olive drab	Recept. with Socket	31.50	28.60	SOU1372-ND	66.79	63.27
2			Olive drab	Recept. with Pins	32.50	38.40	SOU1399-ND	61.98	58.72
2			Olive drab	Recept. with Socket	32.50	38.40	SOU1400-ND	51.32	48.62
3			Nickel	Plug with Pins	31.00	29.40	SOU1418-ND	53.77	50.94
3			Nickel	Plug with Socket	31.00	29.40	SOU1419-ND	61.31	58.09
3			Olive drab	Plug with Pins	31.00	29.40	SOU1447-ND	63.88	60.52
1	C-98	10/20	Nickel	Recept. with Pins	31.50	28.60	SOU1345-ND	42.14	39.93
1			Olive drab	Recept. with Socket	31.50	28.60	SOU1374-ND	44.76	42.41
2			Olive drab	Recept. with Pins	32.50	38.40	SOU1401-ND	55.21	52.31
3			Olive drab	Plug with Pins	31.00	29.40	SOU1449-ND	58.22	55.16
3			Olive drab	Plug with Socket	31.00	29.40	SOU1450-ND	59.62	56.49
1	C-04	4/16	Olive drab	Recept. with Pins	31.50	28.60	SOU1373-ND	44.76	42.41
3			Olive drab	Plug with Pins	31.00	29.40	SOU1448-ND	53.07	50.28
1	D-35	37/22D	Nickel	Recept. with Pins	31.50	31.00	SOU1347-ND	52.23	49.49
1			Olive drab	Recept. with Pins	31.50	31.00	SOU1348-ND	74.50	70.58
1			Nickel	Recept. with Pins	31.50	31.00	SOU1349-ND	65.53	62.09
1			Olive drab	Recept. with Pins	31.50	31.00	SOU1376-ND	66.71	63.20
1			Olive drab	Recept. with Socket	31.50	31.00	SOU1377-ND	69.69	66.03
2			Olive drab	Recept. with Pins	32.50	41.60	SOU1404-ND	69.64	65.97
3	D-35	37/22D	Nickel	Plug with Socket	31.00	32.50	SOU1422-ND	60.84	57.64
3			Nickel	Plug with Socket	31.00	32.50	SOU1423-ND	63.12	59.80
1	D-19	19/20	Nickel	Recept. with Pins	31.50	31.00	SOU1346-ND	59.15	56.04
1			Olive drab	Recept. with Pins	31.50	31.00	SOU1375-ND	48.72	46.16
2			Olive drab	Recept. with Pins	32.50	41.60	SOU1402-ND	59.15	56.04
2			Olive drab	Recept. with Socket	32.50	41.60	SOU1403-ND	65.59	62.14
3			Nickel	Plug with Pins	31.00	32.50	SOU1420-ND	63.18	59.85
3			Nickel	Plug with Socket	31.00	32.50	SOU1421-ND	65.49	62.05
3			Olive drab	Plug with Socket	31.00	32.50	SOU1452-ND	65.42	61.98
1	D-05	5/16	Olive drab	Recept. with Pins	31.50	31.00	SOU1378-ND	50.37	47.72
2			Olive drab	Recept. with Socket	32.50	41.60	SOU1405-ND	62.05	58.79
2	D-97	8/20, 4/16	Olive drab	Recept. with Socket	32.50	41.60	SOU1406-ND	69.39	65.74
3	D-18	18/20	Olive drab	Plug with Pins	31.00	32.50	SOU1451-ND	88.43	83.78
1	E-35	55/22D	Olive drab	Recept. with Pins	31.50	33.30	SOU1379-ND	73.80	69.92
1			Olive drab	Recept. with Socket	31.50	33.30	SOU1380-ND	78.81	74.67
2			Olive drab	Recept. with Socket	32.50	44.80	SOU1407-ND	69.05	65.42
3			Nickel	Plug with Socket	31.00	35.70	SOU1424-ND	82.54	78.20
1	E-26	26/20	Nickel	Recept. with Pins	31.50	33.30	SOU1350-ND	68.69	65.07
1	E-06	6/12	Olive drab	Recept. with Pins	31.50	33.30	SOU1381-ND	53.28	50.48
2	E-99	21/20, 2/16	Olive drab	Recept. with Pins	32.50	44.80	SOU1408-ND	70.19	66.50
1	F-35	66/22D	Olive drab	Recept. with Socket	31.50	36.50	SOU1383-ND	87.42	82.82
3			Nickel	Plug with Socket	31.00	38.50	SOU1425-ND	79.02	74.87
3			Olive drab	Plug with Socket	31.00	38.50	SOU1453-ND	87.34	82.75
1	F-32	32/20	Olive drab	Recept. with Pins	31.50	36.50	SOU1382-ND	54.13	51.29
1	G-35	79/22D	Olive drab	Recept. with Pins	31.50	39.70	SOU1384-ND	91.69	86.87
1			Olive drab	Recept. with Socket	31.50	39.70	SOU1385-ND	76.80	72.76
3			Olive drab	Plug with Pins	31.00	41.70	SOU1454-ND	96.43	91.35
3			Olive drab	Plug with Socket	31.00	41.70	SOU1455-ND	109.36	103.61
3			Olive drab	Plug with Socket	31.00	41.70	SOU1456-ND	103.84	98.37
1	H-53	53/20	Nickel	Recept. with Pins	31.50	42.90	SOU1351-ND	85.27	80.79
1	J-35	128/22D	Nickel	Recept. with Pins	31.50	46.00	SOU1352-ND	113.26	107.30
1			Olive drab	Recept. with Pins	31.50	46.00	SOU1386-ND	122.21	115.78
1			Olive drab	Recept. with Socket	31.50	46.00	SOU1387-ND	124.98	118.41
2			Olive drab	Recept. with Socket	32.50	59.00	SOU1409-ND	137.71	130.47
Composite									
1	A-35	6/22D	Nickel	Recept. with Pins	30.10	23.80	SOU1359-ND	46.65	44.19
1			Nickel	Recept. with Socket	30.10	23.80	SOU1360-ND	44.88	42.52
3			Olive drab	Plug with Pins	31.00	21.80	SOU1426-ND	44.99	42.63
3			Olive drab	Plug with Socket	31.00	21.80	SOU1427-ND	46.53	44.09
3			Nickel	Plug with Pins	31.00	21.80	SOU1431-ND	61.45	58.22
3			Nickel	Plug with Socket	31.00	21.80	SOU1432-ND	61.26	58.04
3			Nickel	Plug with Socket	31.00	21.80	SOU1433-ND	60.50	57.32
1	A-98	3/20	Nickel	Recept. with Pins	30.10	23.80	SOU1361-ND	46.02	43.60
3			Nickel	Plug with Socket	31.00	21.80	SOU1434-ND	62.17	58.90
1	B-35	13/22D	Olive drab	Recept. with Pins	30.10	26.20	SOU1353-ND	41.36	39.19
3			Olive drab	Plug with Pins	31.00	25.00	SOU1428-ND	47.92	45.40
3			Olive drab	Plug with Socket	31.00	25.00	SOU1429-ND	52.06	49.32
3			Nickel	Plug with Socket	31.00	25.00	SOU1435-ND	64.71	61.31
1	B-98	6/20	Olive drab	Recept. with Pins	30.10	26.20	SOU1354-ND	38.87	36.83
1	C-35	22/22D	Olive drab	Recept. with Pins	30.10	28.60	SOU1355-ND	48.47	45.92
3			Nickel	Plug with Socket	31.00	29.40	SOU1436-ND	88.88	84.21
3			Nickel	Plug with Socket	31.00	29.40	SOU1437-ND	75.15	71.19
1	C-98	10/20	Olive drab	Recept. with Socket	30.10	28.60	SOU1356-ND	46.99	44.52
3	D-19	19/20	Nickel	Plug with Pins	31.00	32.50	SOU1438-ND	78.53	74.40
3	E-35	55/22D	Olive drab	Plug with Pins	31.00	35.70	SOU1430-ND	69.69	66.03
1	G-35	79/22D	Olive drab	Recept. with Pins	30.10	39.70	SOU1357-ND	70.51	66.80
1	G-41	41/20	Olive drab	Recept. with Pins	30.10	39.70	SOU1358-ND	53.69	50.87

851/26482 Connector Series

Features: • Bayonet coupling • Environmental and hermetic versions • Solder, crimp, straight spills and wire wrap versions

Applications: • Former connector for military applications • Now used in the fields of professional and general electronics

Specifications: • **Working Temperature:** -55°C ~ 125°C • **Current Rating per Contact:** Size 20: 7.5A; Size 16: 13A • **Endurance:** 500 mating/unmating cycles

Fig. 1 – Plug with Straight Cable Clamp

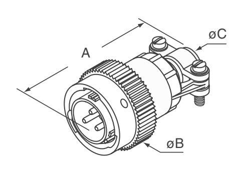

Shown without sealing gland

Fig. 2 – Square Flange Receptacle

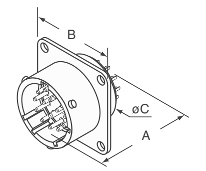

Not accepting backshell

Fig. 3 – Plug with Backnut

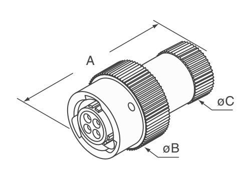

Fig. 4 – Jam Nut Receptacle with Backnut

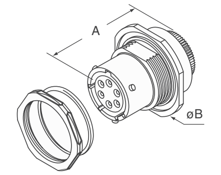

Insert Patterns ***(Front face of pin insert shown)***
Drawings not to scale

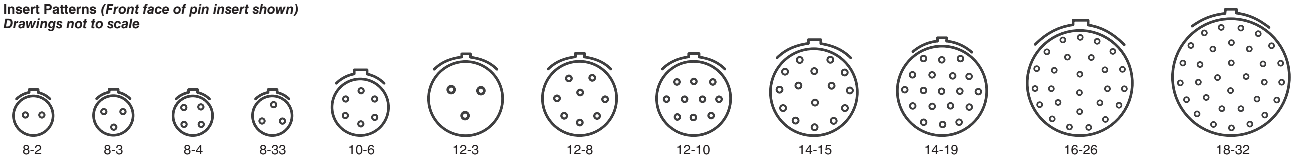

Fig.	Shell Size Insert Arrange-ment No.	No. of Con-tacts/ Size	Description	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10
1	8-2	2/20	Plug w/socket	48.00	19.05	3.50	SOU1484-ND	26.56	25.17
2	8-3	3/20	Recept. w/pins	25.18	20.99	10.84	SOU1465-ND	13.36	12.66
2			Recept. w/socket	25.18	20.99	10.84	SOU1466-ND	15.37	14.57
3			Plug w/socket	32.54	19.05	13.50	SOU1469-ND	24.36	23.08
1			Plug w/pins	48.00	19.05	3.50	SOU1485-ND	27.28	25.85
1			Plug w/socket	48.00	19.05	3.50	SOU1486-ND	27.34	25.91
2	8-4	4/20	Recept. w/pins	25.18	20.99	10.84	SOU1467-ND	15.85	15.02
2			Recept. w/socket	25.18	20.99	10.84	SOU1468-ND	15.92	15.09
3			Plug w/socket	32.54	19.05	13.50	SOU1470-ND	24.91	23.60
1			Plug w/pins	48.00	19.05	3.50	SOU1487-ND	27.68	26.23
1			Plug w/socket	48.00	19.05	3.50	SOU1488-ND	29.87	28.30
1			Plug w/socket	48.00	19.05	3.50	SOU1496-ND	64.71	61.31
1	8-33	3/20	Plug w/socket	48.00	19.05	3.50	SOU1495-ND	65.08	61.65
2	10-6	6/20	Recept. w/pins	25.10	24.19	13.99	SOU1457-ND	15.41	14.60
2			Recept. w/socket	25.10	24.19	13.99	SOU1458-ND	17.08	16.19
1			Plug w/pins	48.00	21.80	5.00	SOU1471-ND	25.59	24.25
1			Plug w/socket	48.00	21.80	5.00	SOU1472-ND	27.21	25.78
1			Plug w/pins	48.00	21.80	5.00	SOU1489-ND	58.92	55.82
1			Plug w/socket	48.00	21.80	5.00	SOU1490-ND	60.59	57.41
4			Recept. w/socket	34.10	30.14	—	SOU1497-ND	34.28	32.48

Fig.	Shell Size Insert Arrange-ment No.	No. of Con-tacts/ Size	Description	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10
1	12-3	3/16	Plug w/pins	48.00	26.15	8.20	SOU1476-ND	26.26	24.88
1			Plug w/socket	48.00	26.15	8.20	SOU1477-ND	28.65	27.15
1			Plug w/socket	48.00	26.15	8.20	SOU1492-ND	64.87	61.46
2	12-8	8/20	Recept. w/pins	25.10	26.54	17.37	SOU1461-ND	14.71	13.94
1			Plug w/pins	48.00	26.15	8.20	SOU1478-ND	27.38	25.94
1			Plug w/socket	48.00	26.15	8.20	SOU1479-ND	29.83	28.26
2	12-10	10/20	Recept. w/pins	25.10	26.54	17.37	SOU1459-ND	17.20	16.29
2			Recept. w/socket	25.10	26.54	17.37	SOU1460-ND	20.29	19.23
1			Plug w/pins	48.00	26.15	8.20	SOU1474-ND	27.89	26.43
1			Plug w/socket	48.00	26.15	8.20	SOU1475-ND	31.03	29.40
1			Plug w/socket	48.00	26.15	8.20	SOU1491-ND	67.22	63.69
2	14-15	14/20, 1/16	Recept. w/pins	25.10	28.89	20.57	SOU1462-ND	21.89	20.74
1			Plug w/socket	48.00	29.35	10.00	SOU1480-ND	41.91	39.71
2	14-19	19/20	Recept. w/pins	25.10	28.89	20.57	SOU1463-ND	21.57	20.43
2			Recept. w/socket	25.10	28.89	20.57	SOU1464-ND	27.21	25.78
1			Plug w/pins	48.00	29.35	10.00	SOU1493-ND	85.06	80.59
1			Plug w/socket	48.00	29.35	10.00	SOU1494-ND	90.71	85.94
1	16-26	26/20	Plug w/pins	51.00	32.50	13.00	SOU1481-ND	37.91	35.91
1			Plug w/socket	51.00	32.50	13.00	SOU1482-ND	45.81	43.40
1	18-32	32/20	Plug w/socket	51.00	35.30	16.00	SOU1483-ND	53.50	50.69

Circular Connectors

HR10 Series 7mm Push-Pull Connectors

GOLD PLATED CONTACTS

Features: The most compact HR10 series with well-balanced, simplified layout in limited space; Easy "Push-Pull" Operation; Polarization: Five-key system permits only one way of coupling.

Electrical Specifications: • Current Rating: 2A • Insulation Resistance: 1000MΩ or more at DC100V • Contact Resistance: 10mΩ or less at DC1A

Dust Cap

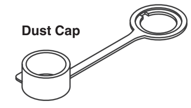

Plug

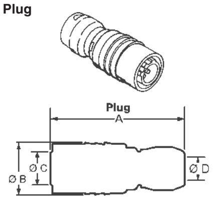

Jack

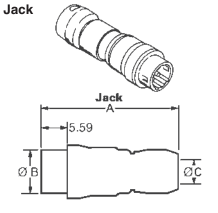

Receptacle

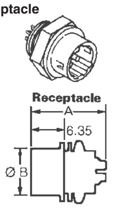

Plug Chart

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	B	C	D
4	HR1558, HR1559	28.50	11.00	7.00	5.20
6	HR1560, HR1561	28.50	11.00	7.00	5.20
12	HR1562, HR1563	32.50	14.00	9.50	7.20

Jack Chart

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	B	C
4	HR1565, HR1564	28.50	8.85	5.20
6	HR1567, HR1566	28.50	8.85	5.20
12	HR305, HR1575, HR1574	32.50	11.90	7.20

Receptacle Chart

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	B
4	HR1579	15.50	8.85
	HR1569	14.00	8.85
	HR1568	14.00	8.85
6	HR1580, HR1577	15.50	8.85
	HR1571, HR1570	14.00	8.85
12	HR1573, HR1572	16.00	11.90
	HR347, HR1578	15.50	11.90

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
		HR10 Series				
12	Receptacle with Pin Insert, PCB	HR347-ND	13.60	12.58	10.54	HR10-10R-12PA
—	Dust Cap for 4-6 Position Recept.	HR345-ND◆	3.19	2.64	1.98	HR10-7R-C
—	Dust Cap for 10-12 Position Recept.	HR349-ND◆	3.19	2.64	1.98	HR10-10R-C
		HR10 Series — RoHS Compliant				
4	Plug with Pin Insert	HR1558-ND	14.77	13.91	12.17	HR10-7P-4P(73)
6	Plug with Pin Insert	HR1560-ND	15.54	14.63	12.80	HR10-7P-6P(73)
12	Plug with Pin Insert	HR1562-ND	17.24	16.67	14.94	HR10-10P-12P(73)
4	Plug with Socket Insert	HR1559-ND	15.36	14.85	13.32	HR10-7P-4S(73)
6	Plug with Socket Insert	HR1561-ND	17.09	16.52	14.81	HR10-7P-6S(73)
12	Plug with Socket Insert	HR1563-ND	24.54	23.73	21.27	HR10-10P-12S(73)
4	Receptacle with Pin Insert	HR1569-ND	10.74	9.34	7.48	HR10-7R-4P(73)
6	Receptacle with Pin Insert	HR1571-ND	10.38	9.61	8.05	HR10-7R-6P(73)
12	Receptacle with Pin Insert	HR1573-ND	14.14	13.08	10.96	HR10-10R-12P(73)
4	Receptacle with Socket Insert	HR1568-ND	12.46	11.53	9.66	HR10-7R-4S(73)
6	Receptacle with Socket Insert	HR1570-ND	14.84	13.73	11.51	HR10-7R-6S(73)
12	Receptacle with Socket Insert	HR1572-ND	15.53	15.01	13.46	HR10-10R-12S(73)
4	Jack with Pin Insert	HR1565-ND	14.94	13.82	11.58	HR10-7J-4P(73)
6	Jack with Pin Insert	HR1567-ND	13.60	12.80	11.20	HR10-7J-6P(73)
12	Jack with Pin Insert	HR1575-ND	15.17	14.66	13.15	HR10-10J-12P(73)
4	Jack with Socket Insert	HR1564-ND	15.35	14.45	12.65	HR10-7J-4S(73)
6	Jack with Socket Insert	HR1566-ND	15.42	14.91	13.37	HR10-7J-6S(73)
12	Jack with Socket Insert	HR1574-ND	22.37	21.62	19.39	HR10-10J-12S(73)
6	Receptacle with Pin Insert, PCB	HR1580-ND	10.38	9.61	8.05	HR10-7R-6PA(73)
12	Receptacle with Pin Insert, PCB	HR1578-ND	14.24	13.18	11.04	HR10-10R-12PA(73)
4	Receptacle with Socket Insert, PCB	HR1579-ND	12.30	11.38	9.54	HR10-7R-4SA(73)
6	Receptacle with Socket Insert, PCB	HR1577-ND	14.84	13.73	11.51	HR10-7R-6SA(73)

◆ ***RoHS Compliant***

HR10A Series

Snap-In and Threaded Coupling Connectors

SILVER PLATED CONTACTS

Features: • Compatible with current HR10 series: Cable crimping tool maintains consistent cable clamp force. • To prevent from slipping, HR10A series are accompanied with ruled-off-squares roulette.
Electrical Specifications: • Current Rating: 2A • Insulation Resistance: 1,000MΩ minimum • Contact Resistance: 10mΩ maximum

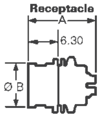

Receptacle

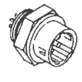

Threaded Receptacle

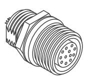

Receptacle Charts

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	Dimensions (mm) B
4	HR1607, HR1605, HR1606	15.60	8.85
	HR1592, HR1590, HR1593, HR1591	14.00	8.85
	HR1667	12.20	8.85
	HR1668	12.00	8.85
5	HR1616	15.60	8.85
	HR218, HR1615, HR219, HR1614	14.00	8.85
6	HR1610, HR1611, HR1609, HR1608	15.60	8.85
	HR1617, HR1618	15.50	11.00
	HR346, HR1581	14.00	11.00
	HR1596, HR1594, HR1597, HR1595	14.00	8.85
	HR233, HR1669	12.20	8.85
	HR238, HR1670	12.00	8.85
10	HR1637, HR1639	16.00	14.00
	HR650, HR1638, HR682, HR1640	16.00	11.90
	HR358, HR1646, HR1644, HR1645	15.60	11.90

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	Dimensions (mm) B
10	HR1676	12.20	11.90
	HR1677	12.00	11.90
12	HR1651	22.00	11.90
	HR1658, HR1715, HR1712, HR1716	16.00	14.00
	HR212, HR1627, HR1625, HR1628, HR1626	16.00	11.90
	HR361, HR1647, HR1648, HR1649, HR1650	15.60	11.90
	HR367, HR1661, HR1654, HR1711	15.50	14.00
	HR1678	12.20	11.90
	HR1660	12.00	14.00
	HR1679	11.90	12.00
20	HR377, HR1697, HR1698	20.20	15.40
	HR1695, HR1696	19.20	15.40
	HR1702, HR1704, HR1703, HR1705, HR1692, HR1690	17.80	18.00
	HR1691	17.80	15.40
	HR1701	15.00	18.00
	HR236, HR1687, HR241, HR1686	15.00	15.40

Plug

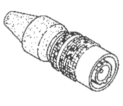

Threaded Plug

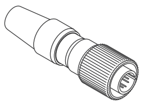

Plug

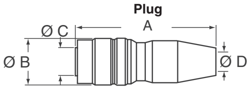

Jack

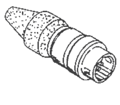

Threaded Jack

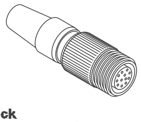

Jack

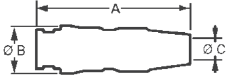

Plug Chart

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C	Dimensions (mm) D
4	HR1582, HR1584, HR160, HR1663, HR1664, HR1583, HR1585	35.00	11.50	7.00	5.00
5	HR1612, HR1613	35.00	11.50	7.00	5.00
6	HR1619, HR1620	35.00	12.00	7.00	5.00
	HR1586, HR1588, HR1665, HR166, HR1666, HR1587, HR1589	35.00	11.50	7.00	5.00
10	HR1633, HR1635, HR162, HR1672, HR167, HR1673, HR1634, HR642, HR1636	43.00	14.70	9.50	7.00
12	HR371, HR1709, HR1713, HR673, HR1710, HR1714	45.80	15.00	9.50	6.50
	HR1653, HR1659 HR366, HR1656, HR1657	43.00	17.00	9.50	7.00
	HR1621, HR1623, HR1674, HR1675, HR1622, HR1624	43.00	14.70	9.50	7.00
20	HR1652	64.80	19.00	13.00	7.00
	HR1684, HR1685, HR1693, HR1699, HR1694, HR1700	58.80	19.00	13.00	7.00
	HR382, HR1706, HR1707, HR1708	56.50	20.00	13.00	7.00

Jack Chart

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C
4	HR1599, HR1598, HR1671, HR1600	35.30	8.85	5.00
6	HR1603, HR1601, HR338, HR1604, HR1602	35.30	8.85	5.00
10	HR1641, HR1643, HR1680, HR1681, HR1642	43.00	11.90	7.00
12	HR1631, HR1629, HR1682, HR340, HR1683, HR1632, HR1630	43.00	11.90	7.00
	HR1662, HR363, HR1655	41.30	14.70	7.00
20	HR1689, HR1688	58.50	15.40	7.00

Dimensions in mm

Female Socket

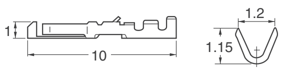

Male Pin

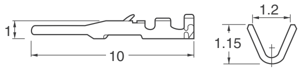

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Hirose Part No.
	Solder Cup Type					
10	Plug with Socket Insert	HR642-ND*	13.68	12.66	10.61	HR10A-10P-10S(01)
5	Receptacle with Pin Insert	HR218-ND	7.07	5.99	4.49	HR10A-7R-5P
10	Receptacle with Pin Insert	HR682-ND*	11.16	9.70	7.76	HR10A-10R-10P(01)
20	Receptacle with Pin Insert	HR377-ND	17.25	16.68	14.95	HR10A-13R-20P
5	Receptacle with Socket Insert	HR219-ND	6.86	5.81	4.36	HR10A-7R-5S
10	Receptacle with Socket Insert	HR650-ND*	10.07	8.76	7.01	HR10A-10R-10S(01)
	Solder Cup Type — RoHS Compliant					
4	Plug with Pin Insert	HR1582-ND	11.70	10.83	9.07	HR10A-7P-4P(73)
4	Plug with Pin Insert, 5mm Diameter Cable Hole through Boot	HR1583-ND*	12.16	11.25	9.43	HR10A-7P-4P(74)
5	Plug with Pin Insert	HR1612-ND	12.02	11.12	9.32	HR10A-7P-5P(73)
6	Plug with Pin Insert	HR1586-ND	12.30	11.38	9.54	HR10A-7P-6P(73)
6	Plug with Pin Insert	HR1587-ND*	12.90	11.94	10.00	HR10A-7P-6P(74)
10	Plug with Pin Insert	HR1633-ND	12.87	12.12	10.60	HR10A-10P-10P(73)
10	Plug with Pin Insert	HR1634-ND*	14.26	13.43	11.75	HR10A-10P-10P(74)
12	Plug with Pin Insert	HR1621-ND	14.48	13.64	11.93	HR10A-10P-12P(73)
12	Plug with Pin Insert	HR1622-ND	15.62	14.71	12.87	HR10A-10P-12P(74)
20	Plug with Pin Insert	HR1693-ND	30.75	29.73	26.65	HR10A-13P-20P(73)
20	Plug with Pin Insert, 7mm Diameter Cable Hole through Boot	HR1694-ND*	32.76	31.67	28.40	HR10A-13P-20P(74)
20	Plug with Pin Insert, 8.3mm Diameter Cable Hole through Boot	HR1652-ND*	32.76	31.67	28.40	HR10A-13PA-20P(74)
4	Plug with Socket Insert	HR1584-ND	11.42	10.57	8.86	HR10A-7P-4S(73)
4	Plug with Socket Insert	HR1585-ND	11.88	10.99	9.21	HR10A-7P-4S(74)
5	Plug with Socket Insert	HR1613-ND	11.56	10.70	8.96	HR10A-7P-5S(73)
6	Plug with Socket Insert	HR1588-ND	11.70	10.83	9.07	HR10A-7P-6S(73)
6	Plug with Socket Insert	HR1589-ND*	12.46	11.53	9.66	HR10A-7P-6S(74)
10	Plug with Socket Insert	HR1635-ND	14.16	13.10	10.98	HR10A-10P-10S(73)
10	Plug with Socket Insert	HR1636-ND*	12.75	12.00	10.50	HR10A-10P-10S(74)
12	Plug with Socket Insert	HR1623-ND	13.48	12.69	11.11	HR10A-10P-12S(73)
12	Plug with Socket Insert	HR1624-ND*	14.99	14.12	12.35	HR10A-10P-12S(74)
20	Plug with Socket Insert	HR1699-ND	37.10	35.25	33.13	HR10A-13P-20S(73)
20	Plug with Socket Insert	HR1700-ND*	38.99	37.05	34.82	HR10A-13P-20S(74)
4	Receptacle with Pin Insert	HR1592-ND	7.15	6.05	4.54	HR10A-7R-4P(73)
4	Receptacle with Pin Insert	HR1593-ND	7.72	6.54	4.91	HR10A-7R-4P(74)
5	Receptacle with Pin Insert	HR1615-ND	7.51	6.36	4.77	HR10A-7R-5P(73)
6	Receptacle with Pin Insert	HR1596-ND	7.90	6.69	5.02	HR10A-7R-6P(73)
6	Receptacle with Pin Insert	HR1597-ND*	8.68	7.35	5.52	HR10A-7R-6P(74)
10	Receptacle with Pin Insert	HR1639-ND	10.12	8.80	7.04	HR10A-10R-10P(73)
10	Receptacle with Pin Insert	HR1640-ND*	10.32	9.55	8.00	HR10A-10R-10P(74)
12	Receptacle with Pin Insert	HR1627-ND	10.74	9.34	7.48	HR10A-10R-12P(73)
12	Receptacle with Pin Insert	HR1628-ND	10.52	9.74	8.16	HR10A-10R-12P(74)
20	Receptacle with Pin Insert	HR1697-ND	17.87	17.27	15.49	HR10A-13R-20P(73)
20	Receptacle with Pin Insert	HR1698-ND*	19.88	19.22	17.23	HR10A-13R-20P(74)
4	Receptacle with Socket Insert	HR1590-ND	6.76	5.72	4.29	HR10A-7R-4S(73)
4	Receptacle with Socket Insert	HR1591-ND*	7.33	6.21	4.66	HR10A-7R-4S(74)
5	Receptacle with Socket Insert	HR1614-ND	6.76	5.72	4.29	HR10A-7R-5S(73)
6	Receptacle with Socket Insert	HR1594-ND	6.97	5.90	4.43	HR10A-7R-6S(73)
6	Receptacle with Socket Insert	HR1595-ND*	7.90	6.69	5.02	HR10A-7R-6S(74)
10	Receptacle with Socket Insert	HR1637-ND	9.04	7.86	6.29	HR10A-10R-10S(71)
10	Receptacle with Socket Insert	HR1638-ND*	10.76	9.36	7.49	HR10A-10R-10S(72)
12	Receptacle with Socket Insert	HR1625-ND	9.38	8.16	6.53	HR10A-10R-12S(71)
12	Receptacle with Socket Insert	HR1626-ND	11.25	9.78	7.83	HR10A-10R-12S(72)
20	Receptacle with Socket Insert	HR1695-ND	35.25	34.08	30.55	HR10A-13R-20S(73)
20	Receptacle with Socket Insert	HR1696-ND*	37.43	36.18	32.44	HR10A-13R-20S(74)
4	Jack with Pin Insert	HR1599-ND	10.98	10.16	8.51	HR10A-7J-4P(73)
4	Jack with Pin Insert	HR1600-ND*	11.42	10.57	8.86	HR10A-7J-4P(74)
6	Jack with Pin Insert	HR1603-ND	11.56	10.70	8.96	HR10A-7J-6P(73)
6	Jack with Pin Insert	HR1604-ND*	12.16	11.25	9.43	HR10A-7J-6P(74)
10	Jack with Pin Insert	HR1643-ND	13.53	12.74	11.15	HR10A-10J-10P(73)
12	Jack with Pin Insert	HR1631-ND	14.62	13.76	12.04	HR10A-10J-12P(73)
12	Jack with Pin Insert	HR1632-ND	15.49	14.58	12.76	HR10A-10J-12P(74)
4	Jack with Socket Insert	HR1598-ND	10.68	9.88	8.28	HR10A-7J-4S(73)
6	Jack with Socket Insert	HR1601-ND	10.98	10.16	8.51	HR10A-7J-6S(73)
6	Jack with Socket Insert	HR1602-ND*	11.70	10.83	9.07	HR10A-7J-6S(74)
10	Jack with Socket Insert	HR1641-ND	13.32	12.33	10.33	HR10A-10J-10S(73)
10	Jack with Socket Insert	HR1642-ND*	14.98	13.86	11.61	HR10A-10J-10S(74)
12	Jack with Socket Insert	HR1629-ND	13.36	12.58	11.01	HR10A-10J-12S(73)
	Jack with Socket Insert	HR1630-ND*	14.84	13.97	12.23	HR10A-10J-12S(74)
	Crimp Type (contacts sold separately)					
4	Plug for Pin Insert	HR160-ND	10.44	9.66	8.10	HR10A-7P-4PC
10	Plug for Pin Insert	HR162-ND	13.46	12.46	10.44	HR10A-10P-10PC
6	Plug for Socket Insert	HR166-ND	10.60	9.81	8.22	HR10A-7P-6SC
10	Plug for Socket Insert	HR167-ND	13.74	12.71	10.65	HR10A-10P-10SC
6	Receptacle for Pin Insert	HR233-ND	7.05	5.84	4.38	HR10A-7R-6PC
20	Receptacle for Pin Insert	HR236-ND	15.22	14.32	12.53	HR10A-13R-20PC
6	Receptacle for Socket Insert	HR238-ND	6.64	5.50	4.13	HR10A-7R-6SC
20	Receptacle for Socket Insert	HR241-ND	15.22	14.32	12.53	HR10A-13R-20SC
6	Jack for Socket Insert	HR338-ND	11.04	9.60	7.68	HR10A-7J-6SC
12	Jack for Socket Insert	HR340-ND	13.74	12.71	10.65	HR10A-10J-12SC
	Crimp Type (contacts sold separately) — RoHS Compliant					
4	Plug for Pin Insert	HR1663-ND	11.30	10.46	8.76	HR10A-7P-4PC(73)
6	Plug for Pin Insert	HR1665-ND	10.72	9.92	8.31	HR10A-7P-6PC(73)
10	Plug for Pin Insert	HR1672-ND	14.58	13.49	11.30	HR10A-10P-10PC(73)
12	Plug for Pin Insert	HR1674-ND	14.14	13.08	10.96	HR10A-10P-12PC(73)
20	Plug for Pin Insert	HR1684-ND	27.18	26.28	23.56	HR10A-13P-20PC(73)
4	Plug for Socket Insert	HR1664-ND	11.46	10.61	8.89	HR10A-7P-4SC(73)
6	Plug for Socket Insert	HR1666-ND	11.46	10.61	8.89	HR10A-7P-6SC(73)
10	Plug for Socket Insert	HR1673-ND	14.90	13.79	11.55	HR10A-10P-10SC(73)
12	Plug for Socket Insert	HR1675-ND	14.90	13.79	11.55	HR10A-10P-12SC(73)
20	Plug for Socket Insert	HR1685-ND	27.18	26.28	23.56	HR10A-13P-20SC(73)
4	Receptacle for Pin Insert	HR1667-ND	6.55	5.55	4.16	HR10A-7R-4PC(73)
6	Receptacle for Pin Insert	HR1669-ND	6.55	5.55	4.16	HR10A-7R-6PC(73)
10	Receptacle for Pin Insert	HR1676-ND	8.21	7.14	5.72	HR10A-10R-10PC(71)
12	Receptacle for Pin Insert	HR1678-ND	8.21	7.14	5.72	HR10A-10R-12PC(71)
20	Receptacle for Pin Insert	HR1687-ND	15.81	14.88	13.02	HR10A-13R-20PC(73)

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(Continued)

HIROSE ELECTRIC CO.,LTD. Circular Connectors HR10A Series *(Cont.)*

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
4	Receptacle for Socket Insert	HR1668-ND	6.90	5.72	4.29	HR10A-7R-4SC(73)
6	Receptacle for Socket Insert	HR1670-ND	6.90	5.72	4.29	HR10A-7R-6SC(73)
10	Receptacle for Socket Insert	HR1677-ND	8.53	7.42	5.94	HR10A-10R-10SC(71)
12	Receptacle for Socket Insert	HR1679-ND	9.05	7.66	5.75	HR10A-10R-12SC(71)
20	Receptacle for Socket Insert	HR1686-ND	15.81	14.88	13.02	HR10A-13R-20SC(73)
10	Jack for Pin Insert	HR1680-ND	14.50	13.42	11.24	HR10A-10J-10PC(73)
12	Jack for Pin Insert	HR1682-ND	14.50	13.42	11.24	HR10A-10J-12PC(73)
20	Jack for Pin Insert	HR1689-ND	26.87	25.97	23.29	HR10A-13J-20PC(73)
4	Jack for Socket Insert	HR1671-ND	10.38	9.61	8.05	HR10A-7J-4SC(73)
10	Jack for Socket Insert	HR1681-ND	14.78	13.68	11.46	HR10A-10J-10SC(73)
12	Jack for Socket Insert	HR1683-ND	14.36	13.29	11.13	HR10A-10J-12SC(73)
20	Jack for Socket Insert	HR1688-ND	26.87	25.97	23.29	HR10A-13J-20SC(73)
PCB Type						
10	Receptacle with Pin Insert	HR358-ND	9.48	8.24	6.60	HR10A-10R-10PB
12	Receptacle with Socket Insert	HR361-ND	11.22	9.76	7.81	HR10A-10R-12SB
PCB Type — RoHS Compliant						
4	Receptacle with Pin Insert	HR1607-ND	7.15	6.05	4.54	HR10A-7R-4PB(73)
6	Receptacle with Pin Insert	HR1610-ND	7.90	6.69	5.02	HR10A-7R-6PB(73)
6	Receptacle with Pin Insert	HR1611-ND*	8.11	6.87	5.15	HR10A-7R-6PB(74)
10	Receptacle with Pin Insert	HR1646-ND	9.98	8.68	6.95	HR10A-10R-10PB(71)
12	Receptacle with Pin Insert	HR1649-ND	10.74	9.34	7.48	HR10A-10R-12PB(71)
12	Receptacle with Pin Insert	HR1650-ND	11.98	11.09	9.29	HR10A-10R-12PB(72)
20	Receptacle with Pin Insert	HR1692-ND	17.87	17.27	15.49	HR10A-13R-20PB(73)
4	Receptacle with Socket Insert	HR1605-ND	6.76	5.72	4.29	HR10A-7R-4SB(73)
5	Receptacle with Socket Insert	HR1616-ND	6.97	5.90	4.43	HR10A-7R-5SB(73)
6	Receptacle with Socket Insert	HR1608-ND	7.33	6.21	4.66	HR10A-7R-6SB(73)
6	Receptacle with Socket Insert	HR1609-ND*	8.11	6.87	5.15	HR10A-7R-6SB(74)
10	Receptacle with Socket Insert	HR1644-ND	9.04	7.86	6.29	HR10A-10R-10SB(71)
10	Receptacle with Socket Insert	HR1645-ND*	9.98	8.68	6.95	HR10A-10R-10SB(72)
12	Receptacle with Socket Insert	HR1647-ND	9.38	8.16	6.53	HR10A-10R-12SB(71)
12	Receptacle with Socket Insert, Stamped Dip Post (0.2mm x 0.5mm)	HR1648-ND*	10.32	9.55	8.00	HR10A-10R-12SB(72)
20	Receptacle with Socket Insert	HR1690-ND	17.87	17.27	15.49	HR10A-13R-20SB(73)
	Receptacle with Socket Insert	HR1691-ND*	19.88	19.22	17.23	HR10A-13R-20SB(74)
Threaded Coupling, Solder Cup Type						
12	Plug with Pin Insert	HR371-ND	19.65	19.00	17.03	HR10A-10WTP-12P
12	Plug with Pin Insert	HR673-ND*	20.70	20.01	17.94	HR10A-10WTP-12P(01)
20	Plug with Pin Insert	HR382-ND	36.60	35.38	31.72	HR10A-13TPD-20P
12	Plug with Socket Insert	HR366-ND	19.95	19.29	17.29	HR10A-10TPA-12S
12	Jack with Socket Insert	HR363-ND	15.90	15.37	13.78	HR10A-10TJ-12S
Threaded Coupling, Solder Cup Type — RoHS Compliant						
6	Plug with Pin Insert	HR1619-ND	16.01	15.48	13.88	HR10A-7TP-6P(73)
6	Plug with Pin Insert	HR1620-ND*	16.47	15.93	14.28	HR10A-7TP-6P(74)
12	Plug with Pin Insert	HR1653-ND	20.19	19.52	17.50	HR10A-10TP-12P(73)
12	Plug with Pin Insert	HR1709-ND	20.51	19.83	17.78	HR10A-10WTP-12P(73)
12	Plug with Pin Insert	HR1710-ND*	21.59	20.87	18.71	HR10A-10WTP-12P(74)
20	Plug with Pin Insert	HR1706-ND	37.05	35.82	32.11	HR10A-13TPD-20P(73)
20	Plug with Pin Insert, No Teflon Washer	HR1707-ND*	37.83	35.94	33.78	HR10A-13TPD-20P(74)
12	Plug with Socket Insert	HR1656-ND	20.97	20.28	18.18	HR10A-10TPA-12S(73)
12	Plug with Socket Insert	HR1713-ND	20.19	19.52	17.50	HR10A-10WTP-12S(73)
12	Plug with Socket Insert	HR1714-ND*	21.90	21.17	18.98	HR10A-10WTP-12S(74)
20	Plug with Socket Insert	HR1708-ND	47.53	45.16	42.44	HR10A-13TPD-20S(74)
12	Receptacle with Pin Insert, 0.8mm Diameter Solder Cups	HR1716-ND	16.31	15.77	14.14	HR10A-10WTR-12P(74
6	Receptacle with Socket Insert	HR1581-ND	16.94	16.38	14.68	HR10-7TR-6S(73)
12	Receptacle with Socket Insert	HR1658-ND	13.26	12.27	10.28	HR10A-10TR-12S(73)
12	Receptacle with Socket Insert	HR1712-ND	15.73	14.80	12.95	HR10A-10WTR-12S(73)
12	Jack with Socket Insert	HR1655-ND	16.62	16.07	14.41	HR10A-10TJ-12S(73)
12	Jack with Pin Insert	HR1662-ND	18.33	17.72	15.89	HR10A-10TJ-12P(73)
Threaded Coupling, Crimp Type (contacts sold separately) — RoHS Compliant						
12	Plug for Pin Insert, Crimp Type	HR1659-ND	19.41	18.77	16.83	HR10A-10TP-12PC(73)
12	Recept. for Socket Insert, Crimp Type	HR1660-ND	12.60	11.66	9.77	HR10A-10TR-12SC(73)
Threaded Coupling, PCB Type — RoHS Compliant						
—	Dust Cap for 4-6 Position Receptacle	HR345-ND	3.19	2.64	1.98	HR10-7R-C
—	Dust Cap for 10-12 Position Recept.	HR349-ND	3.19	2.64	1.98	HR10-10R-C
—	Dust Cap for 20 Position Receptacle	HR381-ND	3.39	2.81	2.11	HR10A-13R-C
Threaded Coupling, PCB Type — RoHS Compliant						
6	Receptacle with Socket Insert	HR1617-ND	15.54	14.63	12.80	HR10A-7TR-6SA(73)
12	Receptacle with Socket Insert	HR1654-ND	13.34	12.34	10.34	HR10A-10TR-12SB(73)
12	Receptacle with Socket Insert	HR1711-ND	15.73	14.80	12.95	HR10A-10WTR-12SB(73)
20	Receptacle with Socket Insert	HR1704-ND	21.74	21.02	18.84	HR10A-13TR-20SB(73)
12	Receptacle with Pin Insert	HR1661-ND	13.34	12.34	10.34	HR10A-10TR-12PB(73)
20	Receptacle with Pin Insert	HR1702-ND	21.74	21.02	18.84	HR10A-13TR-20PB(73)

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No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
Crimp Pins and Sockets — RoHS Compliant						
—	Male Pin, Crimped, Gold	HR450-ND	—	.29	.17	HR10-PC-111
—	Female Socket, Crimped, Gold	HR452-ND	—	.30	.17	HR12-SC-111
—	Male Pin, Crimped, Silver	HR451-ND	—	.23	.14	HR10-PC-112
—	Female Socket, Crimped, Silver	HR453-ND	—	.24	.14	HR12-SC-112
Tools						
—	Hand Contact Crimp Tool	HR497-ND	660.40/1			HR12-SC-TC
—	Hand Cable Crimp Tool	H9974-ND	344.47/1			HR10A-TC-02
—	Extraction Tool for Female Sockets	HR498-ND	13.46/1			HR12-SC-TP
—	Extraction Tool for Male Pins	HR499-ND	8.35/1			RP6-SC-TP

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HR34B Series

RoHS COMPLIANT

User-Friendly Auto Locking Connectors

Features:

- User-friendly auto locking mechanism designed for easy operation • Quick mating and unmating • Provides security against vibration, shocks and pulling on the cable • IP67 Waterproof • 4 and 10 pins available

Applications:

- Servo motor • FA robots • CNC machines • Telecom equipment

Specifications:

- **Rated Voltage:** 30VAC, 42VDC (10 pin); 200VAC (4 pin) • **Withstand Voltage:** 900VAC (10 pin); 2000VAC (4 pin) • **Insulation Resistance:** 1000MΩ minimum • **Rated Current:** 3A (10 pin); 5A (4 pin) • **Applicable Wire:** Up to 24AWG (10 pin); Up to 20AWG (4 pin)

Dimensions in mm

Fig. 1

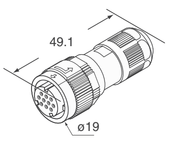

Fig. 2

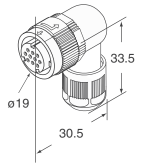

Fig. 3

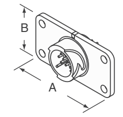

Fig.	No. of Pos.	Description	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
Plug									
1	4	Straight, Solder, Female Contacts	—	—	HR1914-ND	14.71	13.84	12.11	HR34B-12WPD-4S
	4		—	—	HR1915-ND	14.71	13.84	12.11	HR34B-12WPE-4S
	10		—	—	HR1908-ND	16.47	15.93	14.28	HR34B-12WPA-10S(71)
	10		—	—	HR1910-ND	16.47	15.93	14.28	HR34B-12WPB-10S(71)
2	10	Right Angle, Solder Female Contacts	—	—	HR1909-ND	17.40	16.82	15.08	HR34B-12WLPA-10S(71)
			—	—	HR1911-ND	17.40	16.82	15.08	HR34B-12WLPB-10S(71)
Receptacle									
3	4	Wall Mount, Solder, Male Contacts	25.4	25.4	HR1913-ND	10.49	9.12	7.30	HR34B-12WRB-4P
	10		39	20	HR1907-ND	10.70	9.90	8.30	HR34B-12WR-10PD(71)
	10		23.4	23.4	HR1912-ND	9.06	7.88	6.31	HR34B-12WRA-10P

MXR Series - Circular Connectors

Miniature Push-Pull Connectors with Ground Function

MXR type connectors are miniature, lightweight, push-pull lock connectors with a ground function which has been developed for use with VTR camera and system camera interfaces.

Features: • The single action push-pull lock function allows quick connections and disconnections as well as high density mounting • Verification of a secure engagement is afforded by a click sound which exemplifies the fine feel of this lock system • Use of aluminum alloy for the shell has contributed to the lightweight design • One of the three conductors makes contact before the others in this sequenced design.

Specifications: • **Withstand Voltage:** 300VAC for 1 minute • **Current Capacity:** 2A • **Insulation Resistance:** 1000MΩ or greater at 100VDC • **Contact Resistance:** 20mΩ or less at 1A AC • **Solder Pot Diameter:** 0.9mm diameter **Applications:** VTR cameras, system cameras, audio equipment, etc. **Materials:** • **Shell:** Aluminum alloy, nickel plating • **Insulation:** PBT resin, black, UL94V-0 • **Male Pins:** Brass, gold plating • **Female Pins:** Phosphor bronze, partial gold plating

Dimensions in mm

Fig. 1 – Plug

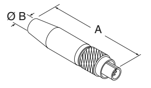

Fig. 2 – Solder Cup

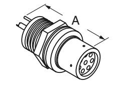

Fig. 3 – Solder Pin

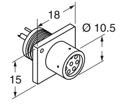

Fig.	No. of Pos.	Description	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
Plug — RoHS Compliant										
1	4	Bushing, Black	47	5	HR1822-ND	16.29	15.33	13.90	13.42	MXR-8PA-4PB(71)
	6	Bushing, Black	47	5	HR1823-ND	16.76	15.78	14.30	13.81	MXR-8PA-6PB(71)
	8	Bushing, Black	50	8	HR1824-ND	16.39	15.43	13.98	13.50	MXR-8P-8P(71)
	8	Bushing, White	50	8	HR1825-ND	16.64	15.67	14.20	13.71	MXR-8P-8P(72)
Receptacles										
2	4	Solder Cup	19.3	—	HR1827-ND◆	9.64	8.38	7.55	6.71	MXR-8RA-4S(71)
	6		19.3	—	HR1828-ND◆	9.64	8.38	7.55	6.71	MXR-8RA-6S(71)
	8		20.4	—	HR1829-ND◆	11.39	9.90	8.91	7.92	MXR-8RA-8S(71)
3	3	Solder Pin	—	—	HR623-ND	9.52	8.28	7.46	6.63	MXR-8R-3SA
	3		—	—	HR1830-ND◆	8.60	7.48	6.74	5.99	MXR-8R-3SA(71)
	4		—	—	HR1831-ND◆	8.95	7.78	7.01	6.23	MXR-8R-4SA(71)
	6		—	—	HR1832-ND◆	9.43	8.20	7.38	6.56	MXR-8R-6SA(71)
Tools										
		Tool, Tightening Jig			H9988-ND	207.48/1				MXR-8P-T01
		Tool, Cable Crimper			H9989-ND	317.87/1				HR10A-TC-04

◆ ***RoHS Compliant***

(Continued)

HR30 Series

Miniature Waterproof Plastic Connectors

Plug

(after tightening)

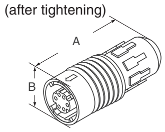

Receptacle

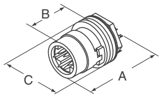

Jack

(after tightening)

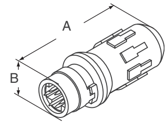

Features: • Miniature and compact design • Water-tight connection: Meets the IP67 standard, when in the mated position • Push-pull lock: Using Hirose's unique lock mechanism, the HR30 connector has a reliable "push-pull" lock that is easy to operate. Light-weight and corrosion resistant.

Applications: Test and measurement equipment, communication equipment, and other miniature electronic devices.

Specifications: • **Rated Current:** 5A (3 position); 2A (6, 10, 12 position) • **Operation Temperature Range:** -25ºC ~ 85ºC • **Rated Voltage:** 100VAC, 140VDC (3, 6 position); 30VAC, 42VDC (10, 12 position) • **Storage Temperature Range:** -25ºC ~ 85ºC • **Contact Resistance:** 5mΩ maximum (3 position); 15mΩ maximum (6, 10, 12 position) all measured at 1A DC • **Insulation Resistance:** 1000MΩ minimum measured at 100VDC • **Waterproof Performance:** No water penetration inside connector. While mated with a corresponding connector or protective cap, leave under water at a depth of 1m for a half hour.

Material: Plug: • Insulator: PPS and PBT: Black, UL94V-0; Polyacetal: Natural • Gasket: Silicone rubber/chloroprene rubber, red/black • Contacts: Brass, phosphor bronze, gold plating • Spring: Stainless steel

Receptacles: • Insulator: PPS, black, UL94V-0 • Gasket: Chloroprene rubber, black • Contacts: Brass, phosphor bronze, gold plating • Hexagonal nut: Zinc alloy, chromate • Washer: Phosphor bronze, nickel plating **Crimp Contacts:** • Contacts: Phosphor bronze, selective gold plating

Digi-Key Part No.	Cable Diameter	Dimension (mm)		
		A	B	C
HR578-ND	4.2 ~ 5	29.8	12.6	—
HR581-ND	3.5 ~ 4.3	29.8	12.6	—
HR587-ND	—	16	8.3	12
HR579-ND	4.2 ~ 5	29.8	12.6	—
HR580-ND	4.2 ~ 5	30.3	12.6	—
HR582-ND	3.5 ~ 4.3	29.8	12.6	—
HR583-ND	3.5 ~ 4.3	30.3	12.6	—
HR588-ND	—	16	8.3	12
HR589-ND	—	18.4	8.3	12
HR593-ND	4.2 ~ 5	28.9	12	—
HR594-ND	3.5 ~ 4.3	28.9	12	—
HR1916-ND	6.2 ~ 7	39.8	15.5	—
HR1917-ND	6.2 ~ 7	39.8	15.5	—
HR1918-ND	—	18.6	9.3	15
HR1919-ND	—	18.6	9.3	15
HR1920-ND	6.2 ~ 7	37.3	15	—
HR1921-ND	6.2 ~ 7	37.3	15	—
HR874-ND	6.2 ~ 7	38	15	—
HR584-ND	6.2 ~ 7	39.8	15.5	—
HR585-ND	6.2 ~ 7	39.8	15.5	—
HR586-ND	6.2 ~ 7	39.8	15.5	—
HR590-ND	—	15.5	9.3	15
HR591-ND	—	15.5	9.3	15
HR592-ND	—	15.5	9.3	15
HR595-ND	6.2 ~ 7	38	15	—
HR596-ND	6.2 ~ 7	38	15	—
HR597-ND	6.2 ~ 7	38	15	—

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
	Solder Type — RoHS Compliant						
3	Plug, Solder Female Contact	HR578-ND	10.81	9.40	8.46	7.52	HR30-6P-3S(71)
3	Plug, Solder, Fine Wire, Female Contact	HR581-ND	10.81	9.40	8.46	7.52	HR30-6PA-3S(71)
3	Receptacle, Solder, Male Contact	HR587-ND	8.32	7.04	5.92	5.28	HR30-6R-3P(71)
6	Plug, Solder Female Contact	HR579-ND	7.28	6.16	5.18	4.62	HR30-6P-6S(71)
6	Plug, Solder Male Contact	HR580-ND	8.06	6.82	5.74	5.12	HR30-6P-6P(71)
6	Plug, Solder, Fine Wire, Female Contact	HR582-ND	7.28	6.16	5.18	4.62	HR30-6PA-6S(71)
6	Plug, Solder, Fine Wire, Male Contact	HR583-ND	8.06	6.82	5.74	5.12	HR30-6PA-6P(71)
6	Receptacle, Solder, Male Contact	HR588-ND	6.50	5.50	4.63	4.13	HR30-6R-6P(71)
6	Receptacle, Solder, Female Contact	HR589-ND	7.54	6.38	5.37	4.79	HR30-6R-6S(71)
6	Jack, Solder, Male Contact	HR593-ND	7.80	6.60	5.55	4.95	HR30-6J-6P(71)
6	Jack, Solder, Fine Wire, Male Contact	HR594-ND	7.54	6.38	5.37	4.79	HR30-6JA-6P(71)
12	Plug, Solder Female Contact	HR1916-ND	9.43	8.20	7.38	6.56	HR30-7P-12S(71)
12	Plug, Solder Male Contact	HR1917-ND	8.97	7.80	7.02	6.24	HR30-8P-12P(71)
12	Receptacle, Solder Male Contact	HR1918-ND	8.84	7.48	6.29	5.61	HR30-7R-12P(71)
12	Receptacle, Solder Female Contact	HR1919-ND	8.51	7.40	6.66	5.92	HR30-8R-12S(71)
12	Jack, Solder Male Contact	HR1920-ND	9.20	8.00	7.20	6.40	HR30-7J-12P(71)
12	Jack, Solder Female Contact	HR1921-ND	8.97	7.80	7.02	6.24	HR30-8J-12S(71)
	Crimp Type (Contacts sold separately)						
12	Jack, Crimp, Female Contact	HR874-ND	6.53	5.40	4.50	4.05	HR30-8J-12SC
	Crimp Type (Contacts sold separately) — RoHS Compliant						
10	Plug, Crimp, Female Contact	HR584-ND	6.50	5.50	4.63	4.13	HR30-7P-10SC(71)
10	Receptacle, Crimp, Male Contact	HR590-ND	5.51	4.56	3.80	3.42	HR30-7R-10PC(71)
10	Jack, Crimp, Male Contact	HR595-ND	6.96	5.76	4.80	4.32	HR30-7J-10PC(71)
12	Plug, Crimp, Female Contact	HR585-ND	6.50	5.50	4.63	4.13	HR30-7P-12SC(71)
12	Plug, Crimp, Male Contact	HR586-ND	6.50	5.50	4.63	4.13	HR30-8P-12PC(71)
12	Receptacle, Crimp, Male Contact	HR591-ND	5.51	4.56	3.80	3.42	HR30-7R-12PC(71)
12	Receptacle, Crimp, Female Contact	HR592-ND	5.51	4.56	3.80	3.42	HR30-8R-12SC(71)
12	Jack, Crimp, Male Contact	HR596-ND	6.96	5.76	4.80	4.32	HR30-7J-12PC(71)
12	Jack, Crimp, Female Contact	HR597-ND	6.96	5.76	4.80	4.32	HR30-8J-12SC(71)
—	Dust Cap for Plugs - Solder	HR598-ND	2.60	2.16	1.80	1.60	HR30-6P-C(71)
—	Dust Cap for Plugs - Crimp	HR599-ND	2.60	2.16	1.80	1.60	HR30-7P-C(71)
—	Dust Cap for Plugs - Crimp	HR600-ND	2.60	2.16	1.80	1.60	HR30-8P-C(71)
—	Dust Cap for Solder Type Receptacle	HR601-ND	2.60	2.16	1.80	1.60	HR30-6R-C(71)
—	Dust Cap for Crimp Type Receptacle	HR602-ND	2.60	2.16	1.80	1.60	HR30-7R-C(71)
	Tools						
—	Wiring Jig for Solder Plugs	H9950-ND	207.48/1				HR30-6P-6S-T01
—	Wiring Jig for Receptacle and Jack	H9951-ND	207.48/1				HR30-6R-6P-T01
—	Back Shell Tightening Collar	H9952-ND	136.22/1				HR30-6P-T02
—	Manual Crimping Tool	H9953-ND	1090.70/1				HT-102/HR30-1

Description	Digi-Key Part No.	Loose Piece Pricing 100	Hirose Part No.	Cut Tape* Pricing 10	50	100	Tape and Reel† Pricing 10,000	Hirose Part No.
Contacts - Male - Phosphor Bronze with Selective Gold Plating — RoHS Compliant								
26-30AWG	HR880-ND	19.04	HR30-PC-111	2.98	11.48	19.98	78.00/M	HR30-PC-211
Contacts - Female - Phosphor Bronze with Selective Gold Plating — RoHS Compliant								
26-30AWG	HR881-ND	19.04	HR30-SC-111	2.98	11.48	19.98	78.00/M	HR30-SC-211

* For Cut Tape, add CT to the Digi-Key Part No. (HR880CT-ND)

† For Tape and Reel add TR to the Digi-Key Part No. (HR880TR-ND)

KMC Series

9mm Bayonet Lock Connectors Waterproof

Features: Five-key mechanism between two metal shells assures error-free polarization in coupling • Bayonet lock offers easier coupling with higher reliability than thread lock.

Electrical Specifications: • Insulation Resistance: minimum 2000MΩ at 100VDC • Contact Resistance: maximum 10mΩ at 1A DC • Current Rating: 2A

Dim. in mm

Receptacle

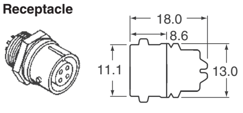

Plug

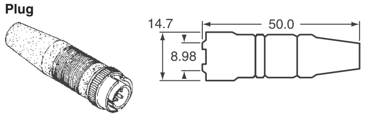

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
4	Receptacle with Socket Insert	HR402-ND	12.14	11.23	9.41	KMC9BRD-4S
	RoHS Compliant					
4	Plug with Pin Insert	HR1810-ND	17.70	17.11	15.34	KMC9BPD-4P(71)
6	Plug with Pin Insert	HR1813-ND	22.35	21.61	19.37	KMC9BPD-6P(71)
4	Receptacle with Socket Insert	HR1811-ND	12.14	11.23	9.41	KMC9BRD-4S(71)
		HR1936-ND	11.82	10.94	9.17	KMC9BRD-4S(75)
6	Receptacle with Socket Insert	HR1812-ND	12.60	11.66	9.77	KMC9BRD-6S(71)
		HR1937-ND	14.42	13.57	11.88	KMC9BRD-6S(75)

RM Series

12mm Video Connectors *Does not have rubber boot*

Features: • Pipe shaped socket contact for long life reliable operation • UL94V-0 diallyl phthalate molding material for excellent electrical and mechanical characteristics • Sleek design with grainy matte finish • Bayonet type coupling for easy operation • Reversible pin and socket insert • 2, 3, 4, 5, 6, and 7 pin available in the common diecasting body • Jack available for cable extension program

Specifications: • Operating Voltage: AC600V (2 pin) AC500V (3 and 4 pin) AC350V (5, 6 and 7 pin) • Current rating: 5 amps • Insulation resistance: minimum 1,000MΩ at DC500V • Contact resistance: maximum 4mΩ • Solder cup diameter: 1.1mm (.043") • Temperature cycling: -55°C ~ 85°C • Contact durability: 2000 times at maximum 8mΩ

Dim. in mm

Fig. 1 – Plug

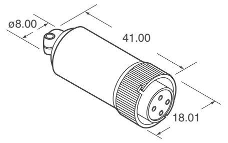

Fig. 2 – Receptacle

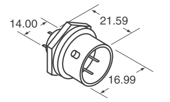

Fig. 3 – Receptacle (Square Flange)

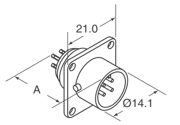

Fig. 4 – Jack

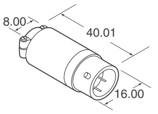

Fig. 5 – Plug Waterproof

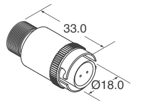

Fig. 6 – Receptacle Waterproof

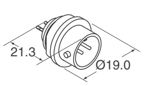

Fig. 7 – Cable Clamp

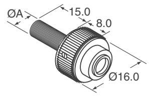

Fig.	No. of Pos.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
3	7	Receptacle with Socket Insert	21.6	HR1117-ND	8.19	6.93	5.83	5.20	RM12BRB-7S
		RoHS Compliant							
1	2	Plug with Pin Insert	—	HR1729-ND	10.95	9.52	8.57	7.62	RM12BPE-2PH(71)
	3	Plug with Pin Insert	—	HR1730-ND	11.22	9.76	8.79	7.81	RM12BPE-3PH(71)
	4	Plug with Pin Insert	—	HR1731-ND	10.02	9.27	8.32	7.77	RM12BPE-4PH(71)
	5	Plug with Pin Insert	—	HR1732-ND	10.30	9.53	8.55	7.99	RM12BPE-5PH(71)
	6	Plug with Pin Insert	—	HR1733-ND	10.56	9.77	8.77	8.19	RM12BPE-6PH(71)
	7	Plug with Pin Insert	—	HR1734-ND	10.84	10.03	9.00	8.41	RM12BPE-7PH(71)
	2	Plug with Socket Insert	—	HR1735-ND	10.56	9.77	8.77	8.19	RM12BPE-2S(71)
	3	Plug with Socket Insert	—	HR1736-ND	10.98	10.16	9.12	8.51	RM12BPE-3S(71)
	4	Plug with Socket Insert	—	HR1737-ND	11.38	10.53	9.45	8.82	RM12BPE-4S(71)
	5	Plug with Socket Insert	—	HR1738-ND	11.76	10.88	9.77	9.12	RM12BPE-5S(71)
	6	Plug with Socket Insert	—	HR1739-ND	12.18	11.27	10.11	9.44	RM12BPE-6S(71)
	7	Plug with Socket Insert	—	HR1740-ND	12.58	11.64	10.45	9.75	RM12BPE-7S(71)
2	2	Receptacle with Pin Insert	—	HR1761-ND	6.29	5.21	4.34	3.91	RM12BRD-2PH(71)
	3	Receptacle with Pin Insert	—	HR1762-ND	6.67	5.52	4.60	4.14	RM12BRD-3PH(71)
	4	Receptacle with Pin Insert	—	HR1763-ND	7.08	5.86	4.88	4.40	RM12BRD-4PH(71)
	5	Receptacle with Pin Insert	—	HR1764-ND	6.68	5.66	4.76	4.25	RM12BRD-5PH(71)
	6	Receptacle with Pin Insert	—	HR1765-ND	7.05	5.97	5.02	4.48	RM12BRD-6PH(71)
	7	Receptacle with Pin Insert	—	HR1766-ND	7.38	6.25	5.26	4.69	RM12BRD-7PH(71)
	2	Receptacle with Socket Insert	—	HR1744-ND	7.15	6.05	5.09	4.54	RM12BRD-2S(71)
	3	Receptacle with Socket Insert	—	HR1745-ND	7.54	6.38	5.37	4.79	RM12BRD-3S(71)
	4	Receptacle with Socket Insert	—	HR1746-ND	8.19	6.93	5.83	5.20	RM12BRD-4S(71)
	5	Receptacle with Socket Insert	—	HR1747-ND	8.71	7.37	6.20	5.53	RM12BRD-5S(71)
	6	Receptacle with Socket Insert	—	HR1748-ND	8.14	7.08	6.38	5.67	RM12BRD-6S(71)
	7	Receptacle with Socket Insert	—	HR1749-ND	8.53	7.42	6.68	5.94	RM12BRD-7S(71)
3	2	Receptacle with Pin Insert	20.5	HR1045-ND	4.67	3.87	3.22	2.90	RM12BRB-2PH
	3	Receptacle with Pin Insert	20.5	HR1046-ND	5.05	4.18	3.48	3.14	RM12BRB-3PH
	4	Receptacle with Pin Insert	20.5	HR1047-ND	5.45	4.52	3.76	3.39	RM12BRB-4PH
	5	Receptacle with Pin Insert	20.5	HR1048-ND	5.83	4.83	4.02	3.62	RM12BRB-5PH
	6	Receptacle with Pin Insert	20.5	HR1119-ND	6.24	5.16	4.30	3.87	RM12BRB-6PH
	7	Receptacle with Pin Insert	20.5	HR1049-ND	6.61	5.48	4.56	4.11	RM12BRB-7PH
	2	Receptacle with Socket Insert	21.6	HR1114-ND	6.24	5.16	4.30	3.87	RM12BRB-2S
	3	Receptacle with Socket Insert	21.6	HR1115-ND	6.79	5.62	4.68	4.22	RM12BRB-3S
	5	Receptacle with Socket Insert	21.6	HR1116-ND	7.15	6.05	5.09	4.54	RM12BRB-5S
	6	Receptacle with Socket Insert	21.6	HR1038-ND	7.64	6.47	5.44	4.86	RM12BRB-6S
4	2	Jack with Pin Insert	—	HR321-ND	8.87	7.51	6.31	5.63	RM12BJB-2PH
	3	Jack with Pin Insert	—	HR323-ND	8.14	7.08	6.38	5.67	RM12BJB-3PH

(Continued)

HIROSE ELECTRIC CO.,LTD. Circular Connectors RM Series *(Cont.)*

Fig.	No. of Pos.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
4	4	Jack with Pin Insert	—	HR325-ND	8.46	7.36	6.63	5.89	RM12BJB-4PH
	5	Jack with Pin Insert	—	HR327-ND	8.76	7.62	6.86	6.10	RM12BJB-5PH
	6	Jack with Pin Insert	—	HR329-ND	9.09	7.90	7.11	6.32	RM12BJB-6PH
	7	Jack with Pin Insert	—	HR331-ND	9.52	8.28	7.46	6.63	RM12BJB-7PH
	2	Jack with Socket Insert	—	HR320-ND	10.18	9.42	8.45	7.89	RM12BJB-2S(07)
	3	Jack with Socket Insert	—	HR322-ND	10.56	9.77	8.77	8.19	RM12BJB-3S(07)
	4	Jack with Socket Insert	—	HR324-ND	10.98	10.16	9.12	8.51	RM12BJB-4S(07)
	5	Jack with Socket Insert	—	HR326-ND	11.38	10.53	9.45	8.82	RM12BJB-5S(07)
	6	Jack with Socket Insert	—	HR328-ND	11.76	10.88	9.77	9.12	RM12BJB-6S(07)
	7	Jack with Socket Insert	—	HR330-ND	12.18	11.27	10.11	9.44	RM12BJB-7S(07)
		Waterproof Type							
6	5	Receptacle with Socket Insert	—	HR1071-ND	11.36	10.51	9.43	8.81	RM12WBR-5S
7		Cable Clamp, 5mm Diameter	5.5	HR1084-ND	5.42	4.49	3.74	3.37	RM12WBP-CP(5)
		Waterproof Type — RoHS Compliant							
5	2	Plug with Pin Insert	—	HR1795-ND	13.41	12.63	11.45	11.05	RM12WBP-2P(71)
	3	Plug with Pin Insert	—	HR1796-ND	13.65	12.85	11.65	11.25	RM12WBP-3P(71)
	4	Plug with Pin Insert	—	HR1797-ND	13.87	13.06	11.84	11.43	RM12WBP-4P(71)
	5	Plug with Pin Insert	—	HR1798-ND	14.11	13.28	12.04	11.62	RM12WBP-5P(71)
	6	Plug with Pin Insert	—	HR1799-ND	14.33	13.49	12.23	11.81	RM12WBP-6P(71)
	2	Plug with Socket Insert	—	HR1791-ND	14.33	13.49	12.23	11.81	RM12WBP-2S(71)
	3	Plug with Socket Insert	—	HR1792-ND	14.79	13.92	12.62	12.18	RM12WBP-3S(71)
	4	Plug with Socket Insert	—	HR1793-ND	15.23	14.34	13.00	12.55	RM12WBP-4S(71)
	5	Plug with Socket Insert	—	HR1794-ND	15.81	14.88	13.49	13.02	RM12WBP-5S(71)
	6	Plug with Socket Insert	—	HR1839-ND	16.15	15.20	13.78	13.30	RM12WBP-6S(71)
6	2	Receptacle with Pin Insert	—	HR1781-ND	10.72	9.32	8.39	7.46	RM12WBR-2P(71)
	3	Receptacle with Pin Insert	—	HR1782-ND	11.02	9.58	8.63	7.67	RM12WBR-3P(71)
	4	Receptacle with Pin Insert	—	HR1783-ND	11.32	9.84	8.86	7.88	RM12WBR-4P(71)
	5	Receptacle with Pin Insert	—	HR1784-ND	10.10	9.35	8.39	7.83	RM12WBR-5P(71)
	6	Receptacle with Pin Insert	—	HR1785-ND	10.40	9.62	8.64	8.06	RM12WBR-6P(71)
	2	Receptacle with Socket Insert	—	HR1786-ND	10.38	9.61	8.62	8.05	RM12WBR-2S(71)
	3	Receptacle with Socket Insert	—	HR1787-ND	10.92	10.11	9.07	8.47	RM12WBR-3S(71)
	4	Receptacle with Socket Insert	—	HR1788-ND	11.46	10.61	9.52	8.89	RM12WBR-4S(71)
	5	Receptacle with Socket Insert	—	HR1789-ND	12.00	11.10	9.96	9.30	RM12WBR-5S(71)
	6	Receptacle with Socket Insert	—	HR1790-ND	12.54	11.60	10.41	9.72	RM12WBR-6S(71)
7		Cable Clamp, 4mm Diameter	5.5	HR1800-ND	5.74	4.76	3.96	3.57	RM12WBP-CP(4)(71)
		Cable Clamp, 5mm Diameter	5.5	HR1801-ND	5.74	4.76	3.96	3.57	RM12WBP-CP(5)(71)
		Cable Clamp, 6mm Diameter	7.5	HR1802-ND	5.74	4.76	3.96	3.57	RM12WBP-CP(6)(71)
		Cable Clamp, 7mm Diameter	7.5	HR1803-ND	5.74	4.76	3.96	3.57	RM12WBP-CP(7)(71)
—		Receptacle Cover for RM12 Series	—	HR1840-ND	13.91	13.09	11.87	11.46	RM12WBR-C(71)

RM Series 15mm Video Connectors

Specifications: • Operating Voltage: 350VAC, 490VDC • Current Rating: 5A • Insulation Resistance: 1000MΩ minimum at 500VDC • Contact Resistance: 14mΩ maximum at 1A DC • Operating Temperature : -25°C ~ 85°C • Applicable Cable Diameter: 8mm maximum

Dim. in mm

Fig. 1 – Threaded Plug

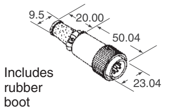

Fig. 2 – Threaded Plug

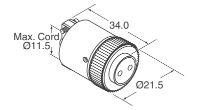

Fig. 3 – Receptacle

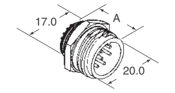

Fig. 4 – Jack

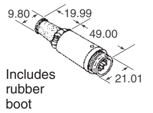

Fig. 5 – Waterproof Plug

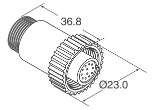

Fig. 6 – Waterproof Receptacle

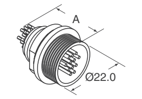

Fig. 7 – Cable Clamp

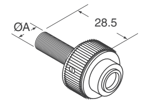

Fig.	No. of Pos.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
3	12	Receptacle with Socket Insert	21.29	HR209-ND‡	12.36	11.44	9.58	RM15TRD-12S
4	12	Jack Extension with Pin Insert	—	HR307-ND‡	11.32	9.84	7.88	RM15TJD-12P
		RoHS Compliant						
1	10	Plug with Pin Insert	—	HR1756-ND†‡	14.50	13.42	11.24	RM15TPD-10PC(71)
	10	Plug with Pin Insert	—	HR1741-ND‡	14.82	13.96	12.21	RM15TPD-10P(71)
	12	Plug with Pin Insert	—	HR1750-ND‡	15.42	14.52	12.70	RM15TPD-12P(71)
	10	Plug with Socket Insert	—	HR1757-ND‡	13.16	12.39	10.84	RM15TPD-10S(71)
	12	Plug with Socket Insert	—	HR1751-ND‡	17.55	16.97	15.21	RM15TPD-12S(71)
2	2	Plug with Pin Insert	—	HR1779-NDΔ	11.46	10.61	8.89	RM15TP-2PA(71)
	4	Plug with Pin Insert	—	HR1780-NDΔ	12.00	11.10	9.30	RM15TP-4PA(71)
	8	Plug with Pin Insert	—	HR1771-NDΔ	12.66	11.72	9.82	RM15TP-8PH(71)
	10	Plug with Pin Insert	—	HR1772-NDΔ	14.88	14.00	12.25	RM15TP-10PH(71)
	2	Plug with Socket Insert	—	HR1767-NDΔ	13.10	12.12	10.16	RM15TP-2SA(71)
	4	Plug with Socket Insert	—	HR1768-NDΔ	13.24	12.47	10.91	RM15TP-4SA(71)
	10	Plug with Socket Insert	—	HR1726-NDΔ	16.25	15.30	13.39	RM15TP-10S(71)
3	2	Receptacle with Pin Insert	21.00	HR1777-NDΔ	8.83	7.68	6.15	RM15TRH-2PA(71)
	4	Receptacle with Pin Insert	21.00	HR1778-NDΔ	9.15	7.96	6.37	RM15TRH-4PA(71)
	8	Receptacle with Pin Insert	20.60	HR1773-NDΔ	10.10	8.78	7.03	RM15TRH-8PH(71)
	10	Receptacle with Pin Insert	20.60	HR1774-NDΔ	10.76	9.36	7.49	RM15TRH-10PH(71)
	10	Receptacle with Pin Insert	21.29	HR1758-ND‡	8.21	7.14	5.72	RM15TRD-10P(71)
	12	Receptacle with Pin Insert	21.29	HR1752-ND‡	9.04	7.86	6.29	RM15TRD-12P(71)
	2	Receptacle with Socket Insert	21.70	HR1769-NDΔ	10.72	9.32	7.46	RM15TRH-2SA(71)
	4	Receptacle with Socket Insert	21.70	HR1770-NDΔ	11.80	10.92	9.15	RM15TRH-4SA(71)
	8	Receptacle with Socket Insert	21.60	HR1775-NDΔ	13.76	12.73	10.67	RM15TRH-8S(71)
	10	Receptacle with Socket Insert	21.60	HR1776-NDΔ	12.95	12.20	10.67	RM15TRH-10S(71)
	10	Receptacle with Socket Insert	21.29	HR1742-ND‡	11.48	9.98	7.99	RM15TRD-10S(71)
	10	Receptacle with Socket Insert	32.30	HR1760-ND‡	8.49	7.38	5.91	RM15TRD-10SB(71)
	10	Receptacle with Socket Insert	19.50	HR1755-ND†‡	11.08	10.25	8.59	RM15TRD-10SC(71)
	12	Receptacle with Socket Insert	21.29	HR1753-ND‡	12.88	11.92	9.99	RM15TRD-12S(71)

Fig.	No. of Pos.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
4	10	Jack Extension with Pin Insert	—	HR1759-ND‡	13.50	12.71	11.12	RM15TJD-10P(71)
	10	Jack Extension w/Socket Insert	—	HR1743-ND‡	14.16	13.33	11.67	RM15TJD-10S(71)
	12	Jack Extension w/Socket Insert	—	HR1754-ND‡	14.50	13.65	11.95	RM15TJD-12S(71)
		Waterproof Type						
5	4	Plug with Pin Insert	—	HR1089-NDΔ	13.21	12.44	10.88	RM15WTP-4P
	8	Plug with Pin Insert	—	HR1090-NDΔ	13.67	12.87	11.26	RM15WTP-8P
	10	Plug with Pin Insert	—	HR1091-NDΔ	14.11	13.28	11.62	RM15WTP-10P
	2	Plug with Socket Insert	—	HR1122-NDΔ	14.11	13.28	11.62	RM15WTP-2S
6	4	Receptacle with Pin Insert	21.00	HR1125-NDΔ	11.70	10.83	9.07	RM15WTR-4P
	2	Receptacle with Socket Insert	21.50	HR1105-NDΔ	12.76	11.81	9.89	RM15WTR-2S
	4	Receptacle with Socket Insert	21.50	HR1106-NDΔ	12.87	12.12	10.60	RM15WTR-4S

† Crimp Type ‡ TM20x2 Threads Δ M19x1 Threads

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
	Waterproof Type							
—	Cable Clamp, 8mm Ø	—	HR1101-ND§	13.67	12.87	—	11.26	RM15WTP-CP8
	Cable Clamp, 9mm Ø	—	HR1110-ND§	13.67	12.87	—	11.26	RM15WTP-CP9
	Waterproof Type — RoHS Compliant							
7	Cable Clamp, 5mm Ø	6.5	HR1804-ND	6.18	5.12	—	3.84	RM15WTP-CP(5)(71)
	Cable Clamp, 6mm Ø	6.5	HR1805-ND	6.18	5.12	—	3.84	RM15WTP-CP(6)(71)
—	Cable Clamp, 10mm Ø	—	HR1809-ND§	6.18	5.12	—	3.84	RM15WTP-CP(10)(71)
—	Dust Cap for Plug with Chain	—	HR1727-NDΔ	14.70	13.60	—	11.40	RM15TP-C(71)
	Dust Cap for Recept. with Chain	—	HR1728-NDΔ	8.56	7.44	—	5.96	RM15TR-C(71)
	Contacts — RoHS Compliant							
—	Crimp Cont. Male, AWG 20-24	—	HR1118-ND	—	.47	.36	.32	RM-PC-112
—	Crimp Cont. Male, AWG 24-28	—	HR1040-ND	—	.47	.36	.32	RM-PC-122
—	Crimp Cont. Female, AWG 20-24	—	HR1039-ND	—	.47	.36	.32	RM-SC-112
—	Crimp Cont. Female, AWG 24-28	—	HR1041-ND	—	.47	.36	.32	RM-SC-122
	Tools							
—	Man. Crimping Tool, AWG 20-24	—	HR1111-ND		344.47/1			RM-TC-11
—	Man. Crimping Tool, AWG 24-28	—	HR1112-ND		344.47/1			RM-TC-12
—	Extraction Tool	—	HR1113-ND		10.36/1			RM-TP

Δ M19x1 Threads § Length = 17mm

JR Series Video Connectors Aluminum

Features: JR series connectors offer you excellent performances both electrically and mechanically, having five keys in the fitting section to assure smooth coupling. **Specifications:** • Withstand Voltage: 1000VAC a minute • Insulation Resistance: 1000MΩ minimum • Contact Resistance: 5mΩ maximum

Plug

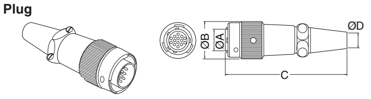

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	B	C	D
7	HR138-ND, HR1295-ND, HR1298-ND	16.31	26.97	78.49	11.00
10	HR1294-ND, HR1297-ND	16.31	26.97	78.49	11.00
14	HR143-ND, HR1293-ND, HR1296-ND	16.31	26.97	78.49	11.00
26	HR1306-ND, HR1305-ND	20.50	30.99	97.99	12.19

Receptacle

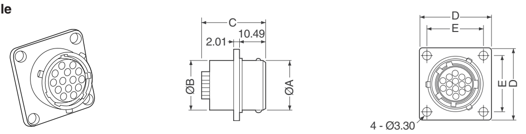

No. of Pos.	Digi-Key Part No.	Dimensions (mm) A	B	C	D	E
7	HR1301-ND	22.00	19.99	26.49	29.01	23.01
	HR1304-ND	22.00	19.99	27.69	29.01	23.01
10	HR1300-ND, HR1303-ND	22.00	19.99	26.49	29.01	23.01
14	HR150-ND, HR1299-ND	22.00	19.99	26.59	29.01	23.01
	HR1302-ND	22.00	19.99	25.78	29.01	23.01
26	HR1307-ND	25.81	23.90	26.80	31.98	26.01
	HR153-ND	25.81	23.90	27.99	31.98	26.01

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
7	Plug with Pin Insert	HR138-ND	16.80	16.24	14.56	JRC16BP-7P
14	Plug with Socket Insert	HR143-ND	16.65	16.10	14.43	JRC16BP-14S
14	Receptacle with Pin Insert	HR150-ND	9.45	8.22	6.58	JRC16BR-14P
	RoHS Compliant					
7	Plug with Pin Insert	HR1295-ND	18.00	17.40	15.60	JRC16BP-7P(71)
10	Plug with Pin Insert	HR1294-ND	18.30	17.69	15.86	JRC16BP-10P(71)
14	Plug with Pin Insert	HR1293-ND	23.40	22.62	20.28	JRC16BP-14P(71)
26	Plug with Pin Insert	HR1306-ND	27.60	26.68	23.92	JRC21BPA-26P(71)
7	Plug with Socket Insert	HR1298-ND	17.70	17.11	15.34	JRC16BP-7S(71)
10	Plug with Socket Insert	HR1297-ND	18.90	18.27	16.38	JRC16BP-10S(71)
14	Plug with Socket Insert	HR1296-ND	25.20	24.36	21.84	JRC16BP-14S(71)
26	Plug with Socket Insert	HR1305-ND	27.60	26.68	23.92	JRC21BP-26S(71)
7	Receptacle with Pin Insert	HR1301-ND	12.12	11.22	9.40	JRC16BR-7P(71)
10	Receptacle with Pin Insert	HR1300-ND	12.82	11.86	9.94	JRC16BR-10P(71)
14	Receptacle with Pin Insert	HR1299-ND	11.41	9.92	7.94	JRC16BR-14P(71)
26	Receptacle with Pin Insert	HR1307-ND	14.24	13.18	11.04	JRC21BR-26P 71)
7	Receptacle with Socket Insert	HR1304-ND	12.10	11.20	9.38	JRC16BR-7S(71)
10	Receptacle with Socket Insert	HR1303-ND	12.78	11.83	9.91	JRC16BR-10S(71)
14	Receptacle with Socket Insert	HR1302-ND	12.42	11.49	9.63	JRC16BR-14S(71)
26	Receptacle with Socket Insert	HR153-ND	13.40	12.40	10.39	JRC21BRA-26S

(Continued)

JR Series High-Performance Waterproof Circular Connectors

Features:
• Waterproof to a depth of 1.8m for 48 hours. (IP67 or more) • Outer metal is plated with black chromium to prevent corrosion • Provided with five guides to make connection very smooth • Variable in shell sizes and core numbers.

Applications:
Machine tools, FA-related equipment, communications equipment, various electronic equipment and devices

Fig. 1

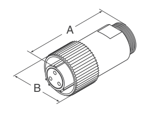

Fig. 2

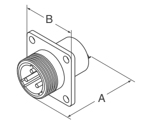

Fig. 3

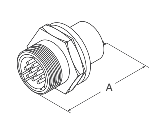

Fig. 4

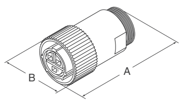

Fig. 5

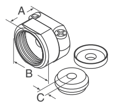

Fig. 6

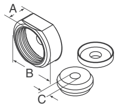

No. of Pos.	Shell Size	Dimensions (mm)			Digi-Key Part No.	Price Each			Hirose Part No.
		A	B	C		1	10	100	
Fig. 1 — Plugs - Male Solder Type									
4	25	56	33.8	—	HR907-ND	23.25	22.48	20.15	JR25WP-4P
8	25	56	33.8	—	HR909-ND	22.80	22.04	19.76	JR25WP-8P
Fig. 1 — Plugs - Male Solder Type — RoHS Compliant									
3	13	44.7	21.8	—	HR1308-ND	15.95	15.01	13.14	JR13WP-3P(71)
5	13	44.7	21.8	—	HR1309-ND	16.18	15.24	13.33	JR13WP-5P(71)
7	16	46.5	21.8	—	HR1310-ND	16.05	15.52	13.91	JR16WP-7P(71)
10	16	46.5	25.8	—	HR1311-ND	16.35	15.81	14.17	JR16WP-10P(71)
10	21	51	29.8	—	HR1312-ND	18.00	17.40	15.60	JR21WP-10P(71)
16	21	51	29.8	—	HR1313-ND	18.60	17.98	16.12	JR21WP-16P(71)
4	25	56	33.8	—	HR1314-ND	25.20	24.36	21.84	JR25WP-4P(71)
5	25	56	33.8	—	HR1315-ND	23.85	23.06	20.67	JR25WP-5P(71)
8	25	56	33.8	—	HR1316-ND	24.75	23.93	21.45	JR25WP-8P(71)
16	25	56	33.8	—	HR1317-ND	21.45	20.74	18.59	JR25WP-16P(71)
24	25	56	33.8	—	HR1318-ND	22.35	21.61	19.37	JR25WP-24P(71)
Fig. 1 — Plugs - Female Solder Type									
4	25	56	33.8	—	HR918-ND	25.65	24.80	22.23	JR25WP-4S
8	25	56	33.8	—	HR920-ND	22.20	21.46	19.24	JR25WP-8S
Fig. 1 — Plugs - Female Solder Type — RoHS Compliant									
3	13	44.7	21.8	—	HR1319-ND	16.66	15.68	13.72	JR13WP-3S(71)
5	13	44.7	21.8	—	HR1320-ND	16.90	15.91	13.92	JR13WP-5S(71)
7	16	46.5	25.8	—	HR1321-ND	16.50	15.95	14.30	JR16WP-7S(71)
10	16	46.5	25.8	—	HR1322-ND	16.35	15.81	14.17	JR16WP-10S(71)
10	21	51	29.8	—	HR1323-ND	18.60	17.98	16.12	JR21WP-10S(71)
16	21	51	29.8	—	HR1324-ND	19.35	18.71	16.77	JR21WP-16S(71)
4	25	56	33.8	—	HR1325-ND	27.60	26.68	23.92	JR25WP-4S(71)
5	25	56	33.8	—	HR1326-ND	23.70	22.91	20.54	JR25WP-5S(71)
8	25	56	33.8	—	HR1327-ND	24.15	23.35	20.93	JR25WP-8S(71)
16	25	56	33.8	—	HR1328-ND	22.35	21.61	19.37	JR25WP-16S(71)
24	25	56	33.8	—	HR1329-ND	23.10	22.33	20.02	JR25WP-24S(71)
Fig. 2 — Receptacles - Male Solder Type									
3	13	26.6	26	—	HR923-ND	8.05	7.00	5.60	JR13WR-3P
7	16	26.6	29	—	HR925-ND	8.99	7.82	6.26	JR16WR-7P
10	21	26.6	32	—	HR927-ND	10.99	9.56	7.65	JR21WR-10P
4	25	28	35	—	HR929-ND	13.97	13.16	11.51	JR25WR-4P
8	25	26.6	35	—	HR931-ND	13.52	12.72	11.13	JR25WR-8P
16	25	26.6	35	—	HR932-ND	11.60	10.73	8.99	JR25WR-16P
Fig. 2 — Receptacles - Male Solder Type — RoHS Compliant									
3	13	26.6	26	—	HR1330-ND	8.35	7.26	5.81	JR13WR-3P(71)
5	13	26.1	26	—	HR1331-ND	8.67	7.54	6.04	JR13WR-5P(71)
7	16	26.6	29	—	HR1332-ND	9.32	8.10	6.48	JR16WR-7P(71)
10	16	26.1	29	—	HR1333-ND	9.80	8.52	6.82	JR16WR-10P(71)
10	21	26.6	32	—	HR1334-ND	11.39	9.90	7.92	JR21WR-10P(71)
16	21	26.1	32	—	HR1335-ND	10.76	9.96	8.34	JR21WR-16P(71)
4	25	28	35	—	HR1336-ND	14.54	13.68	11.97	JR25WR-4P(71)
5	25	26.6	35	—	HR1337-ND	12.95	12.20	10.67	JR25WR-5P(71)
8	25	26.6	35	—	HR1338-ND	14.04	13.22	11.57	JR25WR-8P(71)
16	25	26.6	35	—	HR1339-ND	12.02	11.12	9.32	JR25WR-16P(71)
24	25	26.1	35	—	HR1340-ND	13.12	12.14	10.17	JR25WR-24P(71)
Fig. 2 — Receptacles - Female Solder Type									
4	25	28	35	—	HR940-ND	16.61	15.64	13.68	JR25WR-4S
Fig. 2 — Receptacles - Female Solder Type — RoHS Compliant									
3	13	28	26	—	HR1341-ND	9.32	8.10	6.48	JR13WR-3S(71)
5	13	27	26	—	HR1342-ND	9.64	8.38	6.71	JR13WR-5S(71)
7	16	28	29	—	HR1343-ND	9.96	8.66	6.93	JR16WR-7S(71)
10	16	27	29	—	HR1344-ND	10.44	9.08	7.27	JR16WR-10S(71)
10	21	28	32	—	HR1345-ND	10.76	9.96	8.34	JR21WR-10S(71)
16	21	27	32	—	HR1346-ND	11.58	10.72	8.98	JR21WR-16S(71)
4	25	28	35	—	HR1347-ND	15.30	14.79	13.26	JR25WR-4S(71)
5	25	27.8	35	—	HR1348-ND	14.94	13.82	11.58	JR25WR-5S(71)
8	25	27.8	35	—	HR1349-ND	13.29	12.52	10.95	JR25WR-8S(71)
16	25	28	35	—	HR1350-ND	13.12	12.14	10.17	JR25WR-16S(71)
24	25	27	35	—	HR1351-ND	14.24	13.18	11.04	JR25WR-24S(71)
Fig. 2 — Receptacles - Male Crimp Type (contacts sold separately)									
3	16	27.6	29	—	HR959-ND§	9.15	7.96	6.37	JR16WR-3PC
16	21	25.1	32	—	HR962-ND‡	11.48	9.98	7.99	JR21WR-16PC
Fig. 2 — Receptacles - Male Crimp Type (contacts sold separately) — RoHS Compliant									
3	16	27.6	29	—	HR1423-ND§	9.48	8.24	6.60	JR16WR-3PC(71)
10	16	25.1	29	—	HR1410-ND‡	9.48	8.24	6.60	JR16WR-10PC(71)
16	21	25.1	32	—	HR1411-ND‡	10.34	9.57	8.02	JR21WR-16PC(71)
24	25	25.1	35	—	HR1412-ND‡	11.46	10.61	8.89	JR25WR-24PC(71)
Fig. 2 — Receptacles - Female Crimp Type (contacts sold separately)									
3	16	27.6	29	—	HR964-ND§	9.15	7.96	6.37	JR16WR-3SC
10	16	23.0	29	—	HR965-ND‡	9.15	7.96	6.37	JR16WR-10SC
10	21	27.6	32	—	HR966-ND§	11.48	9.98	7.99	JR21WR-10SC
Fig. 2 — Receptacles - Female Crimp Type (contacts sold separately) — RoHS Compliant									
3	16	27.6	29	—	HR1424-ND§	9.48	8.24	6.60	JR16WR-3SC(71)
10	16	23.0	29	—	HR1413-ND‡	9.48	8.24	6.60	JR16WR-10SC(71)
10	21	27.6	32	—	HR1414-ND§	10.34	9.57	8.02	JR21WR-10SC(71)
16	21	23.0	32	—	HR1415-ND‡	10.34	9.57	8.02	JR21WR-16SC(71)
24	25	23.0	35	—	HR1416-ND‡	11.46	10.61	8.89	JR25WR-24SC(71)
Fig. 3 — Receptacles - Male Solder Type									
7	16	26.6	—	—	HR945-ND	11.32	10.48	8.78	JR16WRA-7P
Fig. 3 — Receptacles - Male Solder Type — RoHS Compliant									
7	16	26.6	—	—	HR1417-ND	11.90	11.01	9.23	JR16WRA-7P(71)
10	16	26.1	—	—	HR1400-ND	12.30	11.38	9.54	JR16WRA-10P(71)
Fig. 3 — Receptacles - Female Solder Type									
8	25	27.8	—	—	HR1025-ND	13.52	12.72	11.13	JRC25WRG-8S
16	25	27.8	—	—	HR1026-ND	15.13	14.24	12.46	JRC25WRG-16S
24	25	26.5	—	—	HR1027-ND	16.85	15.86	13.88	JRC25WRG-24S
Fig. 3 — Receptacles - Female Solder Type — RoHS Compliant									
7	16	28	—	—	HR1418-ND	12.46	11.53	9.66	JR16WRA-7S(71)
10	16	27	—	—	HR1419-ND	12.86	11.90	9.97	JR16WRA-10S(71)
Fig. 3 — Receptacle - Male Crimp Type (contacts sold separately)									
3	16	27.6	—	—	HR969-ND§	11.46	10.61	8.89	JR16WRA-3PC
Fig. 3 — Receptacle - Male Crimp Type (contacts sold separately) — RoHS Compliant									
3	16	27.6	—	—	HR1401-ND§	12.04	11.14	9.34	JR16WRA-3PC(71)
10	16	25.1	—	—	HR1399-ND‡	12.04	11.14	9.34	JR16WRA-10PC(71)
Fig. 3 — Receptacle - Female Crimp Type (contacts sold separately)									
10	16	23	—	—	HR971-ND‡	11.46	10.61	8.89	JR16WRA-10SC
Fig. 3 — Receptacle - Female Crimp Type (contacts sold separately) — RoHS Compliant									
10	16	23	—	—	HR1420-ND‡	12.04	11.14	9.34	JR16WRA-10SC(71)
Fig. 4 — Plugs - Male Crimp Type (contacts sold separately)									
3	16	46.5	21.8	—	HR949-ND§	15.00	14.50	13.00	JR16WP-3PC
16	21	51	29.8	—	HR952-ND‡	16.95	16.39	14.69	JR21WP-16PC
24	25	56	33.8	—	HR953-ND‡	19.20	18.56	16.64	JR25WP-24PC
Fig. 4 — Plugs - Male Crimp Type (contacts sold separately) — RoHS Compliant									
3	16	46.5	21.8	—	HR1421-ND§	16.20	15.66	14.04	JR16WP-3PC(71)
10	16	46.5	25.8	—	HR1402-ND‡	16.20	15.66	14.04	JR16WP-10PC(71)
10	21	51	29.8	—	HR1403-ND§	18.30	17.69	15.86	JR21WP-10PC(71)
16	21	51	29.8	—	HR1404-ND‡	18.30	17.69	15.86	JR21WP-16PC(71)
24	25	56	33.8	—	HR1405-ND‡	21.00	20.30	18.20	JR25WP-24PC(71)
Fig. 4 — Plugs - Female Crimp Type (contacts sold separately)									
10	16	46.5	25.8	—	HR955-ND‡	15.00	14.50	13.00	JR16WP-10SC
24	25	56	33.8	—	HR958-ND‡	19.20	18.56	16.64	JR25WP-24SC
Fig. 4 — Plugs - Female Crimp Type (contacts sold separately) — RoHS Compliant									
3	16	46.5	25.8	—	HR1422-ND§	16.20	15.66	14.04	JR16WP-3SC(71)
10	16	46.5	25.8	—	HR1406-ND‡	16.20	15.66	14.04	JR16WP-10SC(71)
10	21	51	29.8	—	HR1407-ND§	18.30	17.69	15.86	JR21WP-10SC(71)
16	21	51	29.8	—	HR1408-ND‡	18.30	17.69	15.86	JR21WP-16SC(71)
24	25	56	33.8	—	HR1409-ND‡	21.00	20.30	18.20	JR25WP-24SC(71)
Fig. 5 — Cord Clamp									
—	13	17	20	4	HR972-ND	10.07	8.76	7.01	JR13WCC-4
—	13	17	20	6	HR974-ND	10.07	8.76	7.01	JR13WCC-6
—	13	17	20	7	HR975-ND	10.07	8.76	7.01	JR13WCC-7
—	21	17.5	27	8	HR985-ND	14.82	13.71	11.49	JR21WCC-8
—	21	17.5	27	10	HR986-ND	14.82	13.71	11.49	JR21WCC-10
—	21	17.5	27	12	HR987-ND	14.82	13.71	11.49	JR21WCC-12
—	21	17.5	27	16	HR989-ND	14.82	13.71	11.49	JR21WCC-16
—	25	18	31	10	HR991-ND	14.82	13.71	11.49	JR25WCC-10
—	25	18	31	18	HR995-ND	14.82	13.71	11.49	JR25WCC-18
Fig. 5 — Cord Clamp — RoHS Compliant									
—	13	17	20	4	HR1352-ND	10.70	9.30	7.44	JR13WCC-4(71)
—	13	17	20	5	HR1353-ND	10.70	9.30	7.44	JR13WCC-5(71)
—	13	17	20	6	HR1354-ND	10.70	9.30	7.44	JR13WCC-6(71)
—	13	17	20	7	HR1355-ND	10.70	9.30	7.44	JR13WCC-7(71)
—	13	17	20	8	HR1356-ND	10.70	9.30	7.44	JR13WCC-8(71)
—	13	17	20	9	HR1357-ND	10.70	9.30	7.44	JR13WCC-9(71)
—	13	17	20	10	HR1358-ND	10.70	9.30	7.44	JR13WCC-10(71)
—	16	17.5	23	4	HR1359-ND	10.04	9.29	7.79	JR16WCC-4(71)
—	16	17.5	23	6	HR1360-ND	10.04	9.29	7.79	JR16WCC-6(71)
—	16	17.5	23	8	HR1361-ND	10.04	9.29	7.79	JR16WCC-8(71)
—	16	17.5	23	10	HR1362-ND	10.04	9.29	7.79	JR16WCC-10(71)
—	16	17.5	23	12	HR1363-ND	10.04	9.29	7.79	JR16WCC-12(71)
—	21	17.5	27	6	HR1364-ND	13.38	12.60	11.02	JR21WCC-6(71)
—	21	17.5	27	8	HR1365-ND	13.38	12.60	11.02	JR21WCC-8(71)
—	21	17.5	27	10	HR1366-ND	13.38	12.60	11.02	JR21WCC-10(71)
—	21	17.5	27	12	HR1367-ND	13.38	12.60	11.02	JR21WCC-12(71)
—	21	17.5	27	14	HR1368-ND	13.38	12.60	11.02	JR21WCC-14(71)
—	21	17.5	27	16	HR1369-ND	13.38	12.60	11.02	JR21WCC-16(71)
—	25	18	31	8	HR1370-ND	13.48	12.69	11.11	JR25WCC-8(71)
—	25	18	31	10	HR1371-ND	13.48	12.69	11.11	JR25WCC-10(71)
—	25	18	31	12	HR1372-ND	13.48	12.69	11.11	JR25WCC-12(71)
—	25	18	31	14	HR1373-ND	13.48	12.69	11.11	JR25WCC-14(71)
—	25	18	31	16	HR1374-ND	13.48	12.69	11.11	JR25WCC-16(71)
—	25	18	31	18	HR1375-ND	13.48	12.69	11.11	JR25WCC-18(71)

§ Uses 16-20 AWG Contact ‡ Uses 20-24 AWG or 24-28 AWG Contact

(Continued)

HIROSE ELECTRIC CO.,LTD. Circular Connectors JR Series *(Cont.)*

No. of Pos.	Shell Size	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
Fig. 6 — Simple Cord Clamp									
—	13	7.5	19	4	HR996-ND	6.26	5.19	3.89	JR13WCCA-4
—	13	7.5	19	5	HR997-ND	6.26	5.19	3.89	JR13WCCA-5
—	13	7.5	19	6	HR998-ND	6.26	5.19	3.89	JR13WCCA-6
—	13	7.5	19	8	HR1000-ND	6.26	5.19	3.89	JR13WCCA-8
—	16	8	23	6	HR1004-ND	7.22	5.98	4.49	JR16WCCA-6
—	16	8	23	8	HR1005-ND	7.22	5.98	4.49	JR16WCCA-8
—	16	8	23	10	HR1006-ND	7.22	5.98	4.49	JR16WCCA-10
—	21	8	27	12	HR1011-ND	8.67	7.54	6.04	JR21WCCA-12
—	25	8.5	31	12	HR1016-ND	8.67	7.54	6.04	JR25WCCA-12
—	25	8.5	31	18	HR1019-ND	8.67	7.54	6.04	JR25WCCA-18
Fig. 6 — Simple Cord Clamp — RoHS Compliant									
—	13	7.5	19	5	HR1376-ND	6.64	5.50	4.13	JR13WCCA-5(71)
—	13	7.5	19	6	HR1377-ND	6.64	5.50	4.13	JR13WCCA-6(71)
—	13	7.5	19	7	HR1378-ND	6.64	5.50	4.13	JR13WCCA-7(71)
—	13	7.5	19	8	HR1379-ND	6.64	5.50	4.13	JR13WCCA-8(71)
—	13	7.5	19	9	HR1380-ND	6.64	5.50	4.13	JR13WCCA-9(71)
—	13	7.5	19	10	HR1381-ND	6.64	5.50	4.13	JR13WCCA-10(71)
—	16	8	23	4	HR1382-ND	6.92	5.86	4.39	JR16WCCA-4(71)
—	16	8	23	6	HR1383-ND	6.92	5.86	4.39	JR16WCCA-6(71)
—	16	8	23	8	HR1384-ND	6.92	5.86	4.39	JR16WCCA-8(71)
—	16	8	23	10	HR1385-ND	6.92	5.86	4.39	JR16WCCA-10(71)
—	16	8	23	12	HR1386-ND	6.92	5.86	4.39	JR16WCCA-12(71)
—	21	8	27	6	HR1387-ND	9.25	8.04	6.44	JR21WCCA-6(71)
—	21	8	27	8	HR1388-ND	9.25	8.04	6.44	JR21WCCA-8(71)
—	21	8	27	10	HR1389-ND	9.25	8.04	6.44	JR21WCCA-10(71)
—	21	8	27	12	HR1390-ND	9.25	8.04	6.44	JR21WCCA-12(71)
—	21	8	27	14	HR1391-ND	9.25	8.04	6.44	JR21WCCA-14(71)
—	21	8	27	16	HR1392-ND	9.25	8.04	6.44	JR21WCCA-16(71)
—	25	8.5	31	8	HR1393-ND	9.32	8.10	6.48	JR25WCCA-8(71)
—	25	8.5	31	10	HR1394-ND	9.32	8.10	6.48	JR25WCCA-10(71)
—	25	8.5	31	12	HR1395-ND	9.32	8.10	6.48	JR25WCCA-12(71)
—	25	8.5	31	14	HR1396-ND	9.32	8.10	6.48	JR25WCCA-14(71)
—	25	8.5	31	16	HR1397-ND	9.32	8.10	6.48	JR25WCCA-16(71)
—	25	8.5	31	18	HR1398-ND	9.32	8.10	6.48	JR25WCCA-18(71)
Tools									
Manual Crimping Tool AWG 16					H9920-ND		673.40/1		JRC-TC-11
Manual Crimping Tool AWG 18-20					H9921-ND		673.40/1		JRC-TC-12
Extraction Tool					H9922-ND		6.93/1		JRC-TP

§ Uses 16-20 AWG Contact ‡ Uses 20-24 AWG or 24-28 AWG Contact

Description	Digi-Key Part No.	Loose Piece Pricing 100	Hirose Part No.	Cut Tape* Pricing 100	500	1,000	Tape and Reel† Pricing 8,000	Hirose Part No.
Contacts - Male - Crimp Type, Silver Plating — RoHS Compliant								
16-20AWG	HR1032-ND§	31.73	JRC-PC-112	32.67	118.15	187.65	172.00/M	JRC-PC-212
20-24AWG	HR1028-ND‡	25.38	JRC-PC2-112	26.32	95.20	151.20	138.00/M	JRC-PC2-212
24-28AWG	HR1029-ND‡	25.38	JRC-PC2-122	26.32	95.20	151.20	138.00/M	JRC-PC2-222
Contacts - Female - Crimp Type, Silver Plating — RoHS Compliant								
18-20AWG	HR1033-ND§	31.73	JRC-SC-112	16.13	58.05	90.30	82.00/M	JRC-SC-212
20-24AWG	HR1030-ND‡	25.38	JRC-SC2-112	26.32	95.20	151.20	138.00/M	JRC-SC2-212
24-28AWG	HR1031-ND‡	25.38	JRC-SC2-122	26.32	95.20	151.20	138.00/M	JRC-SC2-222

* For Cut Tape, add CT to the Digi-Key Part No. (HR1029CT-ND)
† For Tape and Reel add TR to the Digi-Key Part No. (HR1029TR-ND)
§ Uses 16-20 AWG Contact ‡ Uses 20-24 AWG or 24-28 AWG Contact

LF Series

Miniature Waterproof Shielded Connectors

RoHS COMPLIANT

Features:

- Shield cable is clamped by ground metal and easily connected with shell • Mating waterproof structure (IP67 compliant)
- Simplified assembly procedure without the use of small screws • Small and robust bayonet lock connector. • 3-position type connector is compliant with international safety standard of 5A

Applications:

- Measuring instrument, machine tool, sensor, security camera, base transmission station, medical equipment, and others

Characteristics: • Current Rating (Amps): 2, 5 • **Shell Size:** 7 (10.3mm), 10 (12.8mm) • **Contact Mating Area Plating:** Gold • **Operating Temperature Range:** -25°C ~ 125°C • **Termination Style:** Soldering

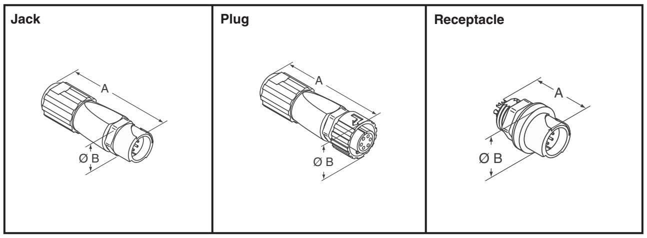

No. of Pos.	Description	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
LF07 Series								
3	Jack, Male Contact	36.3	11.5	HR537-ND	14.00	12.95	11.62	LF07WBJ-3P
3	Jack, Female Contact	36.3	11.5	HR549-ND	14.00	12.95	11.62	LF07WBJ-3S
6	Jack, Male Contact	36.3	11.5	HR539-ND	13.84	12.81	11.49	LF07WBJ-6P
6	Jack, Female Contact	36.3	11.5	HR540-ND	14.16	13.10	11.76	LF07WBJ-6S
3	Plug, Male Contact	35.3	12.3	HR541-ND	13.29	12.52	11.34	LF07WBP-3P
3	Plug, Female Contact	35.3	12.3	HR542-ND	13.29	12.52	11.34	LF07WBP-3S
6	Plug, Male Contact	35.3	12.3	HR543-ND	12.89	12.13	11.00	LF07WBP-6P
6	Plug, Female Contact	35.3	12.3	HR544-ND	13.18	12.40	11.24	LF07WBP-6S
3	Receptacle, Male Contact	15.15	13	HR545-ND	8.14	7.08	6.38	LF07WBR-3P
3	Receptacle, Female Contact	15.15	13	HR546-ND	8.14	7.08	6.38	LF07WBR-3S
6	Receptacle, Male Contact	15.05	13	HR547-ND	9.00	7.62	6.41	LF07WBR-6P
6	Receptacle, Female Contact	15.25	13	HR548-ND	8.35	7.26	6.54	LF07WBR-6S
Tools								
Jig Assembly for LF07 Plug				HR550-ND		20.25/1		LF07BP-T01
Jig Assembly for LF07 Jack				HR551-ND		60.90/1		LF07BJ-T01
LF10 Series								
4	Plug, Male Contact	41.8	14.8	HR552-ND	14.55	13.70	12.42	LF10WBP-4P
4	Plug, Female Contact	41.8	14.8	HR553-ND	14.55	13.70	12.42	LF10WBP-4S
12	Plug, Male Contact	41.8	14.8	HR554-ND	15.98	15.04	13.63	LF10WBP-12P
12	Plug, Female Contact	41.8	14.8	HR555-ND	16.66	15.68	14.21	LF10WBP-12S
4	Receptacle, Male Contact	19.05	15.3	HR556-ND	9.48	8.24	7.42	LF10WBR-4P
4	Receptacle, Female Contact	19.05	15.3	HR557-ND	9.48	8.24	7.42	LF10WBR-4S
12	Receptacle, Male Contact	17.25	15.3	HR558-ND	10.04	9.29	8.34	LF10WBR-12P
12	Receptacle, Female Contact	17.25	15.3	HR559-ND	10.72	9.92	8.90	LF10WBR-12S
4	Jack, Male Contact	42.4	13.8	HR560-ND	13.18	12.40	11.24	LF10WBJ-4P
4	Jack, Female Contact	42.4	13.8	HR561-ND	13.18	12.40	11.24	LF10WBJ-4S
12	Jack, Male Contact	42.4	13.8	HR562-ND	14.55	13.70	12.42	LF10WBJ-12P
12	Jack, Female Contact	42.4	13.8	HR563-ND	15.13	14.24	12.91	LF10WBJ-12S
Tools								
Hand Cable Clamp Crimp				H9910-ND	578.55	554.63	532.88	LF-TC-01
Jig Assembly for LF10 Plug				H9911-ND	20.25	19.58	18.23	LF10BP-T01
Jig Assembly for LF10 Jack				H9912-ND	57.86	55.47	53.29	LF10BJ-T01
LF13 Series								
11	Jack, Male Contact	57.1	16.9	HR1922-ND	17.25	16.68	15.53	LF13WBJ-11P
11	Jack, Female Contact	57.1	16.9	HR1923-ND	17.40	16.82	15.66	LF13WBJ-11S
20	Jack, Male Contact	57.1	16.9	HR1924-ND	16.95	16.39	15.26	LF13WBJ-20P
20	Jack, Female Contact	57.1	16.9	HR1925-ND	18.00	17.40	16.20	LF13WBJ-20S
11	Plug, Male Contact	56.6	17.9	HR1926-ND	19.50	18.85	17.55	LF13WBP-11P
11	Plug, Female Contact	56.6	17.9	HR1927-ND	19.65	19.00	17.69	LF13WBP-11S
20	Plug, Male Contact	56.6	17.9	HR1928-ND	19.05	18.42	17.15	LF13WBP-20P
20	Plug, Female Contact	56.6	17.9	HR1929-ND	19.80	19.14	17.82	LF13WBP-20S
11	Receptacle, Male Contact	19.05	18.3	HR1930-ND	14.50	13.42	12.04	LF13WBR-11P
11	Receptacle, Female Contact	19.05	18.3	HR1931-ND	14.84	13.73	12.32	LF13WBR-11S
20	Receptacle, Male Contact	17.25	18.3	HR1932-ND	14.00	12.95	11.62	LF13WBR-20P
20	Receptacle, Female Contact	17.25	18.3	HR1933-ND	12.89	12.13	11.00	LF13WBR-20S
Tools								
Jig Assembly for LF13 Plug				HR1934-ND		19.50/1		LF13BP-T01
Jig Assembly for LF13 Jack				HR1935-ND		58.80/1		LF13BJ-T01

SR30 Series

10mm Miniature Microphone Connectors

Features: Standard applicable cable size is the outer diameter of 4.29mm

Material: Male pin: brass + gold plated or silver plated; Female pin: copper alloy + gold plated or silver plated

Specifications: • Rated Voltage: 100VAC, 140VDC • Current Rating: 1A • Insulation Resistance: 200MΩ minimum at 100VDC • Contact Resistance: 10mΩ maximum at 1A DC

Dim. in mm

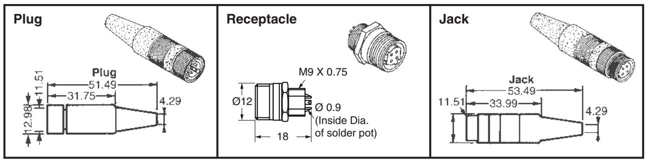

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
4	Receptacle with Socket Insert	HR503-ND	8.74	7.60	6.08	SR30-10R-4S
7		HR505-ND	13.41	12.63	11.05	SR30-10R-7S
—	Cable Clamp for SR30 Series	HR509-ND	.70	.49	.33	SR30-P
RoHS Compliant						
4	Plug with Pin Insert	HR1721-ND	11.32	9.84	7.88	SR30-10PE-4P(71)
6		HR1718-ND	11.24	10.40	8.72	SR30-10PE-6P(74)
7		HR1723-ND	11.36	10.51	8.81	SR30-10PF-7P(71)
4	Receptacle with Socket Insert	HR1720-ND	8.86	7.70	6.16	SR30-10R-4S(71)
6		HR1717-ND	11.43	9.94	7.96	SR30-10R-6S(71)
7		HR1724-ND	13.22	12.23	10.25	SR30-10R-7S(71)
4	Jack with Socket Insert	HR1722-ND	14.38	13.31	11.15	SR30-10JE-4S(71)
6		HR1719-ND	13.38	12.38	10.37	SR30-10JE-6S(72)
7		HR1725-ND	13.76	12.73	10.67	SR30-10JF-7S(71)

SR38 Series

Microminiature High-Performance

RoHS COMPLIANT

Dim. in mm

Features: Microminiature and high density allows space-saving packaging with the ø5.3 mm standard diameter (excluding protrusions) body. Highly reliable against external force such as vibration due to the simple locking mechanism guards. Easy to wire and mount plugs: fold-up type, requiring no special tool. Receptacles: circuit board dip type

Applications: Video equipment, acoustic equipment, measuring instruments, and other electronic equipment

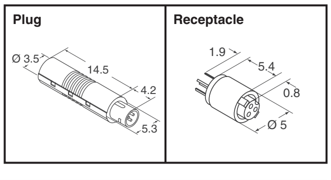

No. of Positions	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
3	Plug	HR1834-ND	13.82	12.79	11.48	SR38-4P-3P(71)
3	Receptacle	HR1835-ND	11.90	11.01	9.88	SR38-4R-3S(71)

(Continued)

HR22 Series

High-Performance Compact Circular

Dim. in mm

Fig. 1

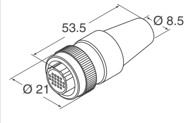

Fig. 2

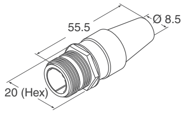

The HR22 Series are 20-pin compact circular connectors developed as an interface between machine tool motors and operation panels. With a screw coupling type locking mechanism to prevent unlocking due to motor vibration.

Features: • Anti-Loosening Locking Mechanism. The locking mechanism has an anti-loosening spring in a screw coupling. **Two Types of Termination:** Crimp and Solder for easy receptacle mounting. A receptacle may be mounted quickly on a panel by tightening a nut

Specifications: • **Withstand voltage:** 300VAC for 1 minimum • **Current capacity:** 2A • **Insulation resistance:** 1000MΩ or more at 100VDC • **Contact resistance:** 20mΩ or less • **Solder pot inner diameter:** 0.8

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	20	Plug - Female Crimp	HR1174-ND	15.84	15.32	14.26	HR22-12TPD-20SC(73)
		Plug - Male Crimp	HR1175-ND	15.84	15.32	14.26	HR22-12TPD-20PC(73)
		Plug - Female Solder	HR1176-ND	37.97	36.07	34.58	HR22-12TPD-20S(73)
		Plug - Male Solder	HR1177-ND	18.33	17.72	16.50	HR22-12TPD-20P(73)
2	20	Jack - Male Crimp	HR1178-ND	16.01	15.48	14.41	HR22-12TJD-20PC(73)
		Jack - Male Solder	HR1179-ND	17.87	17.27	16.08	HR22-12TJD-20P(73)
		Jack - Female Solder	HR1180-ND	37.10	35.25	33.79	HR22-12TJD-20S(73)
Contact Male Pin AWG 24-28 – Crimp			HR184-ND	.41	.29	.23	HR22-PC-122
Contact Female Pin AWG 24-28 – Crimp			HR185-ND	.41	.29	.23	HR22-SC-122
Tools							
Assembly Wiring Jig for HR22 Series			H9959-ND	192.85/1			HR22-12P-T01
Manual Crimping Tool for HR22 Series - AWG 24-28			H9960-ND	995.80/1			HR22-TA2428HC

HR212 Series

Microminiature High-Performance

Dim. in mm

Fig. 1

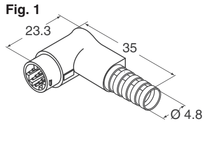

Fig. 2

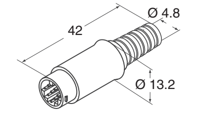

Fig. 3

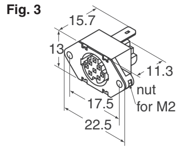

Fig. 4

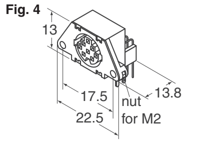

Fig. 5

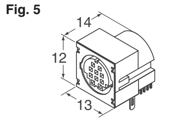

Fig. 6

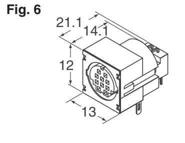

No. of Pos.	Plating	Color	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
Fig. 1 — Plug, Right Angle, Solder Type							
8	Tin	Black	HR454-ND	8.35	7.26	6.54	HR212-10LP-8P
	Tin	Beige	HR455-ND	8.35	7.26	6.54	HR212-10LP-8P(01)
Fig. 1 — Plug, Right Angle, Solder Type — RoHS Compliant							
8	Tin	Black	HR1225-ND	10.20	9.44	8.47	HR212-10LP-8P(71)
	Gold	Black	HR1227-ND	10.49	9.12	8.21	HR212-10LP-8P(73)
	Gold	Beige	HR1228-ND	10.49	9.12	8.21	HR212-10LP-8P(74)
Fig. 1 — Plug, Right Angle, Crimp Type							
5	—	Black	HR458-ND	8.11	6.87	5.78	HR212-10LP-5PC
Fig. 1 — Plug, Right Angle, Crimp Type — RoHS Compliant							
5	—	Black	HR1229-ND	9.07	7.68	6.46	HR212-10LP-5PC(71)
8	—	Black	HR1230-ND	9.07	7.68	6.46	HR212-10LP-8PC(71)
Fig. 2 — Plug, Straight, Solder Type — RoHS Compliant							
8	Tin	Black	HR1231-ND	8.65	7.52	6.77	HR212-10P-8P(71)
	Gold	Black	HR1233-ND	9.71	8.44	7.60	HR212-10P-8P(73)
	Gold	Beige	HR1234-ND	10.33	8.98	8.09	HR212-10P-8P(74)
Fig. 2 — Plug, Straight, Crimp Type — RoHS Compliant							
5	—	Black	HR1235-ND	8.74	7.40	6.22	HR212-10P-5C(71)
8	—	Black	HR1236-ND	8.74	7.40	6.22	HR212-10P-8PC(71)
10	—	Black	HR1238-ND	8.42	7.32	6.59	HR212-10P-10PC(71)
Fig. 3 — Receptacle, Panel Mount, Crimp Type — RoHS Compliant							
8	—	Black	HR1240-ND	5.13	4.25	3.54	HR212-10R-8SC(71)
Fig. 3 — Receptacle, Vertical, PCB Type — RoHS Compliant							
8	Tin	Black	HR1242-ND	6.12	5.07	4.22	HR212-10R-8SD(73)
Fig. 4 — Receptacle, Right Angle, PCB Type							
5	Tin	Black	HR473-ND	4.81	3.99	3.32	HR212-10R-5SDL(02)
8	Gold	Black	HR475-ND	5.68	4.71	3.92	HR212-10R-8SDL(04)
Fig. 5 — Receptacle, Right Angle, PCB Type							
8	Gold	Beige	HR478-ND	6.32	5.24	4.36	HR212-10RA-8SDL(01)
Fig. 5 — Receptacle, Right Angle, PCB Type — RoHS Compliant							
8	Tin	Black	HR1248-ND	7.44	6.30	5.30	HR212-10RA-8SDL(74)
	Gold	Beige	HR1249-ND	7.83	6.63	5.57	HR212-10RA-8SDL(72)
Fig. 6 — Receptacle, Right Angle, PCB Type — RoHS Compliant							
10	Gold	Black	HR1251-ND	10.44	9.66	8.67	HR212-10RC-10SDL(74)

Description	Digi-Key Part No.	Price Each 10	100	Hirose Part No.
Crimp Contacts and Tool				
Male Pin, Crimped, Gold	HR450-ND◆	.29	.17	HR10-PC-111
Female Socket, Crimped, Gold	HR452-ND◆	.30	.17	HR12-SC-111
Male Pin, Crimped, Silver	HR451-ND◆	.23	.14	HR10-PC-112
Female Socket, Crimped, Silver	HR453-ND◆	.24	.14	HR12-SC-112
Hand Contact Crimp Tool	HR497-ND	660.40/1		HR12-SC-TC

◆ *RoHS Compliant*

HR25 Series

World's Smallest Round Type Multiple Contact Connectors

The HR25 is the world's smallest high-density round type connector. It was developed using Hirose Electric's long experience with miniaturization technology in answer to the continuing need for the ever greater miniaturization and high-density construction of a wide variety of electronic equipment. The voltage used should be less than 30VAC or 42VDC. Wire AWG30.

Applications: • CCD cameras, measuring instruments, wide variety of sensors, mobile radio, medical equipment. **Material**: • Insulation: PPS resin, black • Contacts: Phosphor bronze, Gold and partial gold plating • Shell: Brass and zinc alloy, Nickel plating **Ratings**: • Current capacity 1A • Insulation resistance 1000MΩ or greater • Contact resistance 30mΩ • Solder pot inside diameter 0.5mm

Dim. in mm

Fig. 1

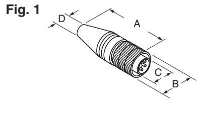

Fig. 2

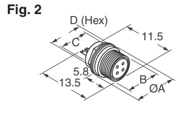

Fig. 3

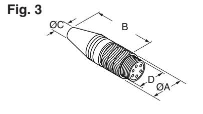

Fig. 4

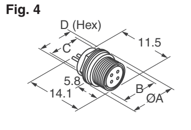

Fig. 5

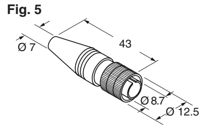

Fig. 6

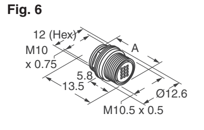

Fig. 7

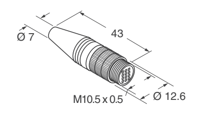

Fig. 8

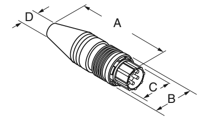

Fig. 9

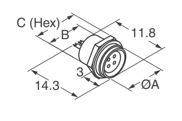

Fig. 10

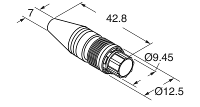

Fig. 11

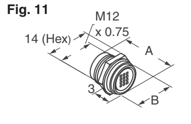

Fig. 12

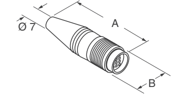

No. of Pos.	Shell Size	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
Fig. 1 — Plugs Screw Lock - Male Solder Type										
12	9	43	12.5	8.7	7	HR703-ND	27.15	26.25	24.44	HR25-9TP-12P
20	9	43	12.5	8.7	7	HR705-ND	31.20	30.16	28.08	HR25-9TP-20P
Fig. 1 — Plugs Screw Lock - Male Solder Type — RoHS Compliant										
4	7	35	10.5	6.7	5	HR1426-ND	15.59	14.68	13.30	HR25-7TP-4P(72)
6	7	35	10.5	6.7	5	HR1427-ND	16.63	15.65	14.19	HR25-7TP-6P(72)
8	7	35	10.5	6.7	5	HR1428-ND	15.60	15.08	14.04	HR25-7TP-8P(72)
12	9	43	12.5	8.7	7	HR1429-ND	26.10	25.23	23.49	HR25-9TP-12P(72)
16	9	43	12.5	8.7	7	HR1430-ND	28.05	27.12	25.25	HR25-9TP-16P(74)
20	9	43	12.5	8.7	7	HR1431-ND	30.00	29.00	27.00	HR25-9TP-20P(72)
Fig. 1 — Plugs Screw Lock - Female Solder Type										
20	9	43	12.5	8.7	7	HR711-ND	23.10	22.33	20.79	HR25-9TP-20S
Fig. 1 — Plugs Screw Lock - Female Solder Type — RoHS Compliant										
4	7	35	10.5	6.7	5	HR1432-ND	15.35	14.45	13.10	HR25-7TP-4S(72)
6	7	35	10.5	6.7	5	HR1433-ND	15.90	14.96	13.56	HR25-7TP-6S(72)
8	7	35	10.5	6.7	5	HR1434-ND	16.42	15.46	14.01	HR25-7TP-8S(72)
12	9	43	12.5	8.7	7	HR1435-ND	20.70	20.01	18.63	HR25-9TP-12S(72)
16	9	43	12.5	8.7	7	HR1436-ND	21.60	20.88	19.44	HR25-9TP-16S(73)
20	9	43	12.5	8.7	7	HR1437-ND	22.35	21.61	20.12	HR25-9TP-20S(73)
Fig. 2 — Receptacles Screw Lock - Male Solder Cup Type										
4	7	10.6	M8.5x0.5	M8x0.5	10	HR712-ND	13.68	12.66	11.36	HR25-7TR-4P
6	7	10.6	M8.5x0.5	M8x0.5	10	HR713-ND	13.11	12.34	11.18	HR25-7TR-6P
8	7	10.6	M8.5x0.5	M8x0.5	10	HR714-ND	13.79	12.98	11.76	HR25-7TR-8P
Fig. 2 — Receptacles Screw Lock - Male Solder Cup Type — RoHS Compliant										
4	7	10.6	M8.5x0.5	M8x0.5	10	HR1438-ND	13.28	12.29	11.03	HR25-7TR-4P(73)
6	7	10.6	M8.5x0.5	M8x0.5	10	HR1439-ND	14.30	13.23	11.87	HR25-7TR-6P(73)
8	7	10.6	M8.5x0.5	M8x0.5	10	HR1440-ND	13.19	12.42	11.26	HR25-7TR-8P(73)
12	9	12.6	M10.5x0.5	M10x0.75	12	HR1441-ND	16.80	16.24	15.12	HR25-9TR-12P(71)
16	9	12.6	M10.5x0.5	M10x0.75	12	HR1442-ND	18.75	18.13	16.88	HR25-9TR-16P(71)
20	9	12.6	M10.5x0.5	M10x0.75	12	HR1443-ND	20.70	20.01	18.63	HR25-9TR-20P(71)
Fig. 2 — Receptacles Screw Lock - Female Solder Cup Type — RoHS Compliant										
4	7	10.6	M8.5x0.5	M8x0.5	10	HR1444-ND	12.82	11.86	10.65	HR25-7TR-4S(73)
6	7	10.6	M8.5x0.5	M8x0.5	10	HR1445-ND	13.46	12.46	11.18	HR25-7TR-6S(73)
8	7	10.6	M8.5x0.5	M8x0.5	10	HR1446-ND	14.06	13.01	11.67	HR25-7TR-8S(73)
12	9	12.6	M10.5x0.5	M10x0.75	12	HR1447-ND	12.99	12.23	11.08	HR25-9TR-12S(71)
16	9	12.6	M10.5x0.5	M10x0.75	12	HR1448-ND	13.91	13.09	11.87	HR25-9TR-16S(71)
20	9	12.6	M10.5x0.5	M10x0.75	12	HR1449-ND	14.84	13.97	12.66	HR25-9TR-20S(71)
Fig. 3 — Jacks Screw Lock - Male Solder Type — RoHS Compliant										
4	7	10.6	35	5	M8.5x0.5	HR1450-ND	15.56	14.64	13.27	HR25-7TJ-4P(72)
6	7	10.6	35	5	M8.5x0.5	HR1451-ND	16.59	15.62	14.16	HR25-7TJ-6P(72).
8	7	10.6	35	5	M8.5x0.5	HR1452-ND	15.60	15.08	14.04	HR25-7TJ-8P(72)
12	9	12.6	43	7	M10.5x0.5	HR1453-ND	26.10	25.23	23.49	HR25-9TJ-12P(72)
16	9	12.6	43	7	M10.5x0.5	HR1454-ND	28.05	27.12	25.25	HR25-9TJ-16P(72)
20	9	12.6	43	7	M10.5x0.5	HR1455-ND	30.00	29.00	27.00	HR25-9TJ-20P(72)
Fig. 3 — Jacks Screw Lock - Female Solder Type — RoHS Compliant										
4	7	10.6	35	5	M8.5x0.5	HR1456-ND	15.33	14.44	13.08	HR25-7TJ-4S(72)
6	7	10.6	35	5	M8.5x0.5	HR1457-ND	15.88	14.95	13.55	HR25-7TJ-6S(72)
8	7	10.6	35	5	M8.5x0.5	HR1458-ND	16.39	15.43	13.98	HR25-7TJ-8S(72)
12	9	12.6	43	7	M10.5x0.5	HR1459-ND	20.70	20.01	18.63	HR25-9TJ-12S(72)
16	9	12.6	43	7	M10.5x0.5	HR1460-ND	21.45	20.74	19.31	HR25-9TJ-16S(72)
20	9	12.6	43	7	M10.5x0.5	HR1461-ND	22.35	21.61	20.12	HR25-9TJ-20S(73)
Fig. 4 — Receptacles Screw Lock - Male PCB Type										
8	7	10.6	M8.5x0.5	M8x0.5	10	HR738-ND	13.79	12.98	11.76	HR25-7TR-8PA
20	9	12.6	M10.5x0.5	M10x0.75	12	HR741-ND	21.00	20.30	18.90	HR25-9TR-20PA

(Continued)

Circular Connectors HR25 Series *(Cont.)*

No. of Pos.	Shell Size	Dimensions (mm)				Digi-Key Part No.	Price Each			Hirose Part No
		A	B	C	D		1	10	50	
Fig. 4 — Receptacles Screw Lock - Male PCB Type — RoHS Compliant										
4	7	10.6	M8.5x0.5	M8x0.5	10	HR1462-ND	13.70	12.68	11.38	HR25-7TR-4PA(73)
6	7	10.6	M8.5x0.5	M8x0.5	10	HR1463-ND	14.98	13.86	12.44	HR25-7TR-6PA(73)
8	7	10.6	M8.5x0.5	M8x0.5	10	HR1464-ND	13.82	13.01	11.79	HR25-7TR-8PA(73)
12	9	12.6	M10.5x0.5	M10x0.75	12	HR1465-ND	17.70	17.11	15.93	HR25-9TR-12PA(71)
16	9	12.6	M10.5x0.5	M10x0.75	12	HR1466-ND	19.65	19.00	17.69	HR25-9TR-16PA(71)
20	9	12.6	M10.5x0.5	M10x0.75	12	HR1467-ND	20.70	20.01	18.63	HR25-9TR-20PA(71)
Fig. 4 — Receptacles Screw Lock - Female PCB Type										
12	9	12.6	M10.5x0.5	M10x0.75	12	HR745-ND	14.96	13.84	12.42	HR25-9TR-12SA
Fig. 4 — Receptacles Screw Lock - Female PCB Type — RoHS Compliant										
4	7	10.6	M8.5x0.5	M8x0.5	10	HR1468-ND	12.94	11.97	10.75	HR25-7TR-4SA(73)
6	7	10.6	M8.5x0.5	M8x0.5	10	HR1469-ND	13.60	12.58	11.29	HR25-7TR-6SA(73)
8	7	10.6	M8.5x0.5	M8x0.5	10	HR1470-ND	14.30	13.23	11.87	HR25-7TR-8SA(73)
12	9	12.6	M10.5x0.5	M10x0.75	12	HR1471-ND	13.26	12.48	11.31	HR25-9TR-12SA(71)
16	9	12.6	M10.5x0.5	M10x0.75	12	HR1472-ND	14.28	13.44	12.18	HR25-9TR-16SA(71)
20	9	12.6	M10.5x0.5	M10x0.75	12	HR1473-ND	15.30	14.40	13.05	HR25-9TR-20SA(71)
Fig. 5 — Plugs Screw Lock - Male Crimp Type (Contacts sold separately) — RoHS Compliant										
12	9	—	—	—	—	HR1474-ND	20.10	19.43	18.09	HR25-9TP-12PC(72)
16	9	—	—	—	—	HR1475-ND	20.40	19.72	18.36	HR25-9TP-16PC(72)
20	9	—	—	—	—	HR1476-ND	20.70	20.01	18.63	HR25-9TP-20PC(72)
Fig. 5 — Plugs Screw Lock - Female Crimp Type (Contacts sold separately) — RoHS Compliant										
12	9	—	—	—	—	HR1477-ND	20.40	19.72	18.36	HR25-9TP-12SC(72)
16	9	—	—	—	—	HR1478-ND	20.40	19.72	18.36	HR25-9TP-16SC(72)
20	9	—	—	—	—	HR1479-ND	19.80	19.14	17.82	HR25-9TP-20SC(72)
Fig. 6 — Receptacles Screw Lock - Male Crimp Type (Contacts sold separately) — RoHS Compliant										
12	9	13	—	—	—	HR1480-ND	13.18	12.20	10.94	HR25-9TR-12PC(71)
16	9	13	—	—	—	HR1481-ND	14.28	13.21	11.86	HR25-9TR-16PC(71)
20	9	13	—	—	—	HR1482-ND	13.94	12.90	11.58	HR25-9TR-20PC(71)
Fig. 6 — Receptacles Screw Lock - Female Crimp Type (Contacts sold separately)										
16	9	11.5	—	—	—	HR758-ND	13.78	12.75	11.44	HR25-9TR-16SC
Fig. 6 — Receptacles Screw Lock - Female Crimp Type (Contacts sold separately) — RoHS Compliant										
12	9	11.5	—	—	—	HR1483-ND	13.80	12.77	11.46	HR25-9TR-12SC(71)
16	9	11.5	—	—	—	HR1484-ND	14.28	13.21	11.86	HR25-9TR-16SC(71)
20	9	11.5	—	—	—	HR1485-ND	14.60	13.51	12.12	HR25-9TR-20SC(71)
Fig. 7 — Jacks Screw Lock - Male Crimp Type (Contacts sold separately) — RoHS Compliant										
12	9	—	—	—	—	HR1486-ND	19.20	18.56	17.28	HR25-9TJ-12PC(72)
16	9	—	—	—	—	HR1487-ND	19.50	18.85	17.55	HR25-9TJ-16PC(72)
20	9	—	—	—	—	HR1488-ND	20.70	20.01	18.63	HR25-9TJ-20PC(72)
Fig. 7 — Jacks Screw Lock - Female Crimp Type (Contacts sold separately)										
20	9	—	—	—	—	HR765-ND	20.55	19.87	18.50	HR25-9TJ-20SC
Fig. 7 — Jacks Screw Lock - Female Crimp Type (Contacts sold separately) — RoHS Compliant										
12	9	—	—	—	—	HR1489-ND	20.10	19.43	18.09	HR25-9TJ-12SC(72)
16	9	—	—	—	—	HR1490-ND	20.40	19.72	18.36	HR25-9TJ-16SC(72)
20	9	—	—	—	—	HR1491-ND	20.70	20.01	18.63	HR25-9TJ-20SC(72)
Fig. 8 — Plugs Push-Pull Lock - Male Solder Type — RoHS Compliant										
4	7	34.8	10.5	7.45	5	HR1492-ND	17.70	17.11	15.93	HR25-7P-4P(72)
4	7	34.8	10.5	7.45	5	HR1851-ND	18.45	17.84	16.61	HR25A-7P-4P
6	7	34.8	10.5	7.45	5	HR1849-ND	19.35	18.71	17.42	HR25A-7P-6P
8	7	34.8	10.5	7.45	5	HR1494-ND	19.50	18.85	17.55	HR25-7P-8P(72)
8	7	34.8	10.5	7.45	5	HR1847-ND	20.25	19.58	18.23	HR25A-7P-8P
12	9	42.8	12.5	9.45	7	HR1495-ND	29.55	28.57	26.60	HR25-9P-12P(72)
12	9	42.8	12.5	9.45	7	HR1845-ND	29.25	28.28	26.33	HR25A-9P-12P
16	9	42.8	12.5	9.45	7	HR1496-ND	30.15	29.15	27.14	HR25-9P-16P(72)
16	9	42.8	12.5	9.45	7	HR1843-ND	31.35	30.31	28.22	HR25A-9P-16P
20	9	42.8	12.5	9.45	7	HR1841-ND	33.30	32.19	29.97	HR25A-9P-20P
Fig. 8 — Plugs Push-Pull Lock - Female Solder Type										
6	7	34.8	10.5	7.45	5	HR773-ND	18.60	17.98	16.74	HR25-7P-6S
Fig. 8 — Plugs Push-Pull Lock - Female Solder Type — RoHS Compliant										
4	7	34.8	10.5	7.45	5	HR1498-ND	18.30	17.69	16.47	HR25-7P-4S(72)
4	7	34.8	10.5	7.45	5	HR1852-ND	18.15	17.55	16.34	HR25A-7P-4S
6	7	34.8	10.5	7.45	5	HR1850-ND	18.60	17.98	16.74	HR25A-7P-6S
8	7	34.8	10.5	7.45	5	HR1848-ND	19.05	18.42	17.15	HR25A-7P-8S
12	9	42.8	12.5	9.45	7	HR1501-ND	22.80	22.04	20.52	HR25-9P-12S(72)
12	9	42.8	12.5	9.45	7	HR1846-ND	23.70	22.91	21.33	HR25A-9P-12S
16	9	42.8	12.5	9.45	7	HR1502-ND	23.70	22.91	21.33	HR25-9P-16S(72)
16	9	42.8	12.5	9.45	7	HR1844-ND	24.60	23.78	22.14	HR25A-9P-16S
20	9	42.8	12.5	9.45	7	HR1503-ND	24.45	23.64	22.01	HR25-9P-20S(72)
20	9	42.8	12.5	9.45	7	HR1842-ND	25.35	24.51	22.82	HR25A-9P-20S
Fig. 9 — Receptacles Push-Pull Lock - Male Solder Cup Type — RoHS Compliant										
4	7	11	M10x0.75	12	—	HR1504-ND	13.23	12.45	11.29	HR25-7R-4P(71)
4	7	11	M10x0.75	12	—	HR1864-ND	13.06	12.29	11.14	HR25A-7R-4P
6	7	11	M10x0.75	12	—	HR1505-ND	14.30	13.46	12.20	HR25-7R-6P(71)
6	7	11	M10x0.75	12	—	HR1862-ND	14.14	13.32	12.07	HR25A-7R-6P
8	7	11	M10x0.75	12	—	HR1860-ND	15.22	14.32	12.98	HR25A-7R-8P
12	9	13	M13x0.75	14	—	HR1507-ND	19.80	19.14	17.82	HR25-9R-12P(71)
12	9	13	M13x0.75	14	—	HR1858-ND	19.65	19.00	17.69	HR25A-9R-12P
16	9	13	M13x0.75	14	—	HR1508-ND	20.85	20.16	18.77	HR25-9R-16P(71)
16	9	13	M13x0.75	14	—	HR1856-ND	21.60	20.88	19.44	HR25A-9R-16P
20	9	13	M13x0.75	14	—	HR1854-ND	23.70	22.91	21.33	HR25A-9R-20P
Fig. 9 — Receptacles Push-Pull Lock - Female Solder Cup Type — RoHS Compliant										
4	7	11	M10x0.75	12	—	HR1510-ND	12.84	12.08	10.95	HR25-7R-4S(71)
4	7	11	M10x0.75	12	—	HR1863-ND	14.94	13.82	12.41	HR25A-7R-4S
6	7	11	M10x0.75	12	—	HR1861-ND	13.26	12.48	11.31	HR25A-7R-6S
8	7	11	M10x0.75	12	—	HR1512-ND	13.96	13.14	11.91	HR25-7R-8S(71)
8	7	11	M10x0.75	12	—	HR1859-ND	13.79	12.98	11.76	HR25A-7R-8S
12	9	13	M13x0.75	14	—	HR1857-ND	15.98	15.04	13.63	HR25A-9R-12S
16	9	13	M13x0.75	14	—	HR1514-ND	15.00	14.50	13.50	HR25-9R-16S(71)
16	9	13	M13x0.75	14	—	HR1855-ND	16.83	15.84	14.36	HR25A-9R-16S
20	9	13	M13x0.75	14	—	HR1853-ND	15.75	15.23	14.18	HR25A-9R-20S
Fig. 10 — Plugs Push-Pull Lock - Male Crimp Type (Contacts sold separately) — RoHS Compliant										
12	9	—	—	—	—	HR1516-ND	21.30	20.59	19.17	HR25-9P-12PC(72)
12	9	—	—	—	—	HR1893-ND	22.05	21.32	19.85	HR25A-9P-12PC
16	9	—	—	—	—	HR1517-ND	21.60	20.88	19.44	HR25-9P-16PC(72)
16	9	—	—	—	—	HR1891-ND	22.50	21.75	20.25	HR25A-9P-16PC
20	9	—	—	—	—	HR1518-ND	21.90	21.17	19.71	HR25-9P-20PC(72)
20	9	—	—	—	—	HR1889-ND	22.80	22.04	20.52	HR25A-9P-20PC
Fig. 10 — Plugs Push-Pull Lock - Female Crimp Type (Contacts sold separately) — RoHS Compliant										
12	9	—	—	—	—	HR1519-ND	22.35	21.61	20.12	HR25-9P-12SC(72)
12	9	—	—	—	—	HR1894-ND	22.05	21.32	19.85	HR25A-9P-12SC
16	9	—	—	—	—	HR1520-ND	21.60	20.88	19.44	HR25-9P-16SC(72)
16	9	—	—	—	—	HR1892-ND	22.50	21.75	20.25	HR25A-9P-16SC
20	9	—	—	—	—	HR1521-ND	21.90	21.17	19.71	HR25-9P-20SC(72)
20	9	—	—	—	—	HR1890-ND	22.80	22.04	20.52	HR25A-9P-20SC
Fig. 11 — Receptacles Push-Pull Lock - Male Crimp Type (Contacts sold separately) — RoHS Compliant										
12	9	13.8	—	—	—	HR1522-ND	14.23	13.40	12.14	HR25-9R-12PC(71)
12	9	13.8	—	—	—	HR1900-ND	14.06	13.24	12.00	HR25A-9R-12PC
16	9	13.8	—	—	—	HR1523-ND	13.96	13.14	11.91	HR25-9R-16PC(71)
16	9	13.8	—	—	—	HR1898-ND	14.45	13.60	12.33	HR25A-9R-16PC
20	9	13.8	—	—	—	HR1524-ND	14.23	13.40	12.14	HR25-9R-20PC(71)
20	9	13.8	—	—	—	HR1896-ND	14.74	13.88	12.58	HR25A-9R-20PC
Fig. 11 — Receptacles Push-Pull Lock - Male Solder Type — RoHS Compliant										
4	7	11.8	11	—	—	HR1525-ND	13.23	12.45	11.29	HR25-7R-4PA(71)
4	7	11.8	11	—	—	HR1888-ND	13.06	12.29	11.14	HR25A-7R-4PA
6	7	11.8	11	—	—	HR1526-ND	14.30	13.46	12.20	HR25-7R-6PA(71)
6	7	11.8	11	—	—	HR1886-ND	14.14	13.32	12.07	HR25A-7R-6PA
8	7	11.8	11	—	—	HR1884-ND	15.22	14.32	12.98	HR25A-7R-8PA
12	9	11.8	11	—	—	HR1528-ND	19.80	19.14	17.82	HR25-9R-12PA(71)
12	9	11.8	11	—	—	HR1882-ND	19.65	19.00	17.69	HR25A-7R-12PA
16	9	11.8	11	—	—	HR1529-ND	21.90	21.17	19.71	HR25-9R-16PA(71)
16	9	11.8	11	—	—	HR1880-ND	21.60	20.88	19.44	HR25A-7R-16PA
20	9	11.8	11	—	—	HR1530-ND	22.80	22.04	20.52	HR25-9R-20PA(71)
20	9	11.8	11	—	—	HR1878-ND	23.70	22.91	21.33	HR25A-7R-20PA
Fig. 11 — Receptacles Push-Pull Lock - Female Crimp Type (Contacts sold separately) — RoHS Compliant										
12	9	11.8	13	—	—	HR1531-ND	14.23	13.40	12.14	HR25-9R-12SC(71)
12	9	11.8	13	—	—	HR1899-ND	14.06	13.24	12.00	HR25A-9R-12SC
16	9	11.8	13	—	—	HR1532-ND	14.62	13.76	12.47	HR25-9R-16SC(71)
16	9	11.8	13	—	—	HR1897-ND	14.45	13.60	12.33	HR25A-9R-16SC
20	9	11.8	13	—	—	HR1533-ND	14.23	13.40	12.14	HR25-9R-20SC(71)
20	9	11.8	13	—	—	HR1895-ND	14.74	13.88	12.58	HR25A-9R-20SC
Fig. 11 — Receptacles Push-Pull Lock - Female Solder Type										
16	9	11.8	13	—	—	HR427-ND	16.49	15.52	14.07	HR25-9R-16SA
Fig. 11 — Receptacles Push-Pull Lock - Female Solder Type — RoHS Compliant										
4	7	11.8	11	—	—	HR1534-ND	12.95	12.20	11.05	HR25-7R-4SA(71)
4	7	11.8	11	—	—	HR1887-ND	12.80	12.05	10.92	HR25A-7R-4SA
6	7	11.8	11	—	—	HR1535-ND	13.55	12.76	11.56	HR25-7R-6SA(71)
6	7	11.8	11	—	—	HR1885-ND	13.40	12.61	11.43	HR25A-7R-6SA
8	7	11.8	11	—	—	HR1536-ND	13.53	12.74	11.55	HR25-7R-8SA(71)
8	7	11.8	11	—	—	HR1883-ND	14.01	13.19	11.95	HR25A-7R-8SA
12	9	11.8	13	—	—	HR1537-ND	16.35	15.40	13.95	HR25-9R-12SA(71)
12	9	11.8	13	—	—	HR1881-ND	16.32	15.36	13.92	HR25A-9R-12SA
16	9	11.8	13	—	—	HR1879-ND	15.30	14.79	13.77	HR25A-9R-16SA
20	9	11.8	13	—	—	HR1877-ND	16.20	15.66	14.58	HR25A-9R-20SA
Fig. 12 — Jacks Push-Pull Lock - Male Crimp Type (Contacts sold separately) — RoHS Compliant										
12	9	43.8	13.8	—	—	HR1540-ND	21.30	20.59	19.17	HR25-9J-12PC(72)
12	9	43.8	13.8	—	—	HR1906-ND	22.05	21.32	19.85	HR25A-9J-12PC
16	9	43.8	13.8	—	—	HR1541-ND	21.60	20.88	19.44	HR25-9J-16PC(72)
16	9	43.8	13.8	—	—	HR1904-ND	22.50	21.75	20.25	HR25A-9J-16PC
20	9	43.8	13.8	—	—	HR1542-ND	22.95	22.19	20.66	HR25-9J-20PC(72)
20	9	43.8	13.8	—	—	HR1902-ND	22.80	22.04	20.52	HR25A-9J-20PC
Fig. 12 — Jacks Push-Pull Lock - Male Solder Type — RoHS Compliant										
4	7	35.8	11.8	—	—	HR1543-ND	18.60	17.98	16.74	HR25-7J-4P(72)
4	7	35.8	11.8	—	—	HR1876-ND	18.45	17.84	16.61	HR25A-7J-4P
6	7	35.8	11.8	—	—	HR1544-ND	19.50	18.85	17.55	HR25-7J-6P(72)
6	7	35.8	11.8	—	—	HR1874-ND	19.35	18.71	17.42	HR25A-7J-6P
8	7	35.8	11.8	—	—	HR1545-ND	19.50	18.85	17.55	HR25-7J-8P(72)
8	7	35.8	11.8	—	—	HR1872-ND	20.25	19.58	18.23	HR25A-7J-8P
12	9	43.8	13.8	—	—	HR1546-ND	28.20	27.26	25.38	HR24-9J-12P(72)
12	9	43.8	13.8	—	—	HR1870-ND	29.25	28.28	26.33	HR25A-9J-12P
16	9	43.8	13.8	—	—	HR1547-ND	31.65	30.60	28.49	HR25-9J-16P(72)
16	9	43.8	13.8	—	—	HR1868-ND	31.35	30.31	28.22	HR25A-9J-16P
20	9	43.8	13.8	—	—	HR1548-ND	32.10	31.03	28.89	HR25-9J-20P(72)
20	9	43.8	13.8	—	—	HR1866-ND	33.30	32.19	29.97	HR25A-9J-20P
Fig. 12 — Jacks Push-Pull Lock - Female Crimp Type (Contacts sold separately) — RoHS Compliant										
12	9	43.8	13.8	—	—	HR1549-ND	22.35	21.61	20.12	HR25-9J-12SC(72)
12	9	43.8	13.8	—	—	HR1905-ND	22.05	21.32	19.85	HR25A-9J-12SC
16	9	43.8	13.8	—	—	HR1550-ND	22.65	21.90	20.39	HR25-9J-16SC(72)
16	9	43.8	13.8	—	—	HR1903-ND	22.50	21.75	20.25	HR25A-9J-16SC
20	9	43.8	13.8	—	—	HR1901-ND	22.80	22.04	20.52	HR25A-9J-20SC
Fig. 12 — Jacks Push-Pull Lock - Female Solder Type — RoHS Compliant										
4	7	35.8	11.8	—	—	HR1875-ND	18.15	17.55	16.34	HR25A-7J-4S
6	7	35.8	11.8	—	—	HR1553-ND	18.75	18.13	16.88	HR25-7J-6S(72)
6	7	35.8	11.8	—	—	HR1873-ND	18.60	17.98	16.74	HR25A-7J-6S
8	7	35.8	11.8	—	—	HR1554-ND	19.20	18.56	17.28	HR25-7J-8S(72)
8	7	35.8	11.8	—	—	HR1871-ND	19.05	18.42	17.15	HR25A-7J-8S
12	9	43.8	13.8	—	—	HR1555-ND	22.80	22.04	20.52	HR25-9J-12S(72)
12	9	43.8	13.8	—	—	HR1869-ND	23.70	22.91	21.33	HR25A-9J-12S
16	9	43.8	13.8	—	—	HR1867-ND	24.60	23.78	22.14	HR25A-9J-16S
20	9	43.8	13.8	—	—	HR1865-ND	25.50	24.65	22.95	HR25A-9J-20S

Description	Digi-Key Part No.	*Loose Piece* Price Each 100	Hirose Part No.	*Cut Tape** Price Each			Hirose Part No.
				1	10	50	
Crimp Style Contacts - Male — RoHS Compliant							
30-32	HR532-ND	.20	HR25-PC-111	.42	.30	.23	HR25-PC-211
Crimp Style Contacts - Female — RoHS Compliant							
30-32	HR536-ND	.20	HR25-5C-111	.42	.30	.23	HR25-5C-211
Tool for HR25 Series							
Manual Crimp Tool (Contact)..........	H9975-ND				1326.00 /1		HR25-TA3032HC
Manual Crimp Tool (Ferrule)...........	H9974-ND				344.47 /1		HR10A-TC-02

* For Cut Tape, add CT to the Digi-Key Part No. (HR532CT-ND)

(Continued)

RP13A Series Push-Pull Lock Connectors

Performance: • **Withstanding Voltage:** 300VAC minimum • **Current Rating:** 2A (AWG #24) • **Insulation:** 1000MΩ maximum (250VDC) • **Contact:** 15mΩ minimum (1A DC)

Features: Single motion push-pull locking mechanism provides improved quick inserting/extracting capability. Multi-slot key mating guide prevents mis-insertion. Outer shell, made of strong glass fiber polycarbonate resin, is lightweight yet rigid. As the cable connection method, crimping is used for plug, and crimping and PCB dip for receptacle.

Dim. in mm

Fig. 1

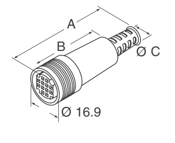

Fig. 2

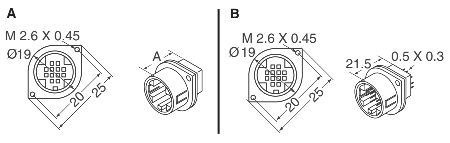

Fig. 3

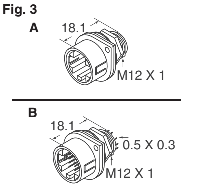

Fig. 4

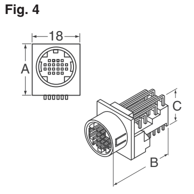

Fig. 5

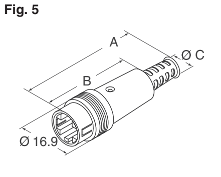

No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
Fig. 1 — Plug with Female Terminal – Crimp								
13	47.2	32	6.4	HR245-ND	6.82	5.64	4.70	RP13A-12PE-13SC
15	52.2	37	7.1	HR249-ND	8.48	7.18	6.04	RP13A-12PK-15SC
15	52.2	37	7.5	HR250-ND	8.48	7.18	6.04	RP13A-12PP-15SC
20	52.2	37	7.5	HR252-ND	8.21	7.14	6.43	RP13A-12PG-20SC
Fig. 1 — Plug with Female Terminal – Crimp — RoHS Compliant								
13	47.2	32	6.1	HR1253-ND	6.55	5.55	4.67	RP13A-12PA-13SC(71)
13	47.2	32	5.7	HR1255-ND	7.05	5.84	4.86	RP13A-12PB-13SC(71)
13	52.2	37	6.1	HR1257-ND	6.66	5.64	4.74	RP13A-12PD-13SC(71)
13	47.2	32	6.4	HR1258-ND	6.63	5.61	4.72	RP13A-12PE-13SC(71)
13	52.2	37	7.1	HR1279-ND	6.86	5.81	4.89	RP13A-12PK-13SC(71)
13	52.2	37	8.1	HR1284-ND	6.63	5.61	4.72	RP13A-12PS-13SC(71)
15	52.2	37	6.1	HR1261-ND	9.07	7.68	6.46	RP13A-12PD-15SC(71)
15	52.2	37	7.1	HR1268-ND	9.07	7.68	6.46	RP13A-12PK-15SC(71)
15	52.2	37	7.5	HR1281-ND	9.31	7.88	6.63	RP13A-12PP-15SC(71)
20	52.2	37	6.1	HR1264-ND	8.74	7.60	6.84	RP13A-12PD-20SC(71)
20	52.2	37	7.5	HR1263-ND	8.74	7.60	6.84	RP13A-12PG-20SC(71)
20	47.2	32	6.4	HR1266-ND	8.28	7.20	6.48	RP13A-12PH-20SC(71)
20	52.2	37	7.1	HR1282-ND	8.44	7.34	6.61	RP13A-12PK-20SC(71)
20	47.2	32	4.7	HR1280-ND	8.58	7.46	6.72	RP13A-12PO-20SC(71)
20	52.2	37	8.1	HR1283-ND	8.74	7.60	6.84	RP13A-12PS-20SC(71)
Fig. 2A — Receptacle (Flange Type) with Male Terminal – Crimp — RoHS Compliant								
13	18.1	—	—	HR1254-ND	3.12	2.60	2.16	RP13A-12RA-13PC(71)
15	18.1	—	—	HR1262-ND	4.44	3.68	3.06	RP13A-12RA-15PC(71)
20	16	—	—	HR1265-ND	5.08	4.20	3.50	RP13A-12RA-20PC(71)
Fig. 2B — Receptacle (Flange Type) with Male Terminal – Dip — RoHS Compliant								
13	—	—	—	HR1259-ND	6.53	5.40	4.50	RP13A-12RA-13PA(71)
15	—	—	—	HR1276-ND	6.79	5.75	4.83	RP13A-12RA-15PA(71)
Fig. 3A — Receptacle (Jam Nut Fastening Type) with Male Terminal – Crimp — RoHS Compliant								
13	—	—	—	HR1256-ND	3.16	2.62	2.18	RP13A-12RB-13PC(71)
Fig. 3B — Receptacle (Jam Nut Fastening Type) with Male Terminal – Dip — RoHS Compliant								
13	—	—	—	HR1260-ND	6.41	5.31	4.42	RP13A-12RB-13PA(71)
Fig. 4 — Right Angle Dip with Male Terminal — RoHS Compliant								
13	17.5	23.5	13	HR264-ND	9.06	7.88	7.10	RP13A-12RC-13PB
20	19.5	31.5	15	HR265-ND	10.49	9.12	8.21	RP13A-12RC-20PB
Fig. 5 — Jack with Male Terminal – Crimp — RoHS Compliant								
13	49.1	34.6	6.1	HR1252-ND	7.64	6.47	5.44	RP13A-12J-13PC(71)
15	54.1	39.6	6.1	HR1278-ND	12.96	11.99	10.76	RP13A-12JD-15PC(71)
15	54.1	39.6	7.1	HR1267-ND	13.42	12.42	11.14	RP13A-12JK-15PC(71)
20	52.6	37.4	7.4	HR1277-ND	13.52	12.51	11.23	RP13A-12JG-20PC(71)
Pins For 13 and 15 Contacts — RoHS Compliant								
Male - Gold Plating, 24-28 AWG				HR270-ND	.46	.32	.25	RP13-PC-121
Male - Silver Plating, 24-28 AWG				HR271-ND	.55	.34	.23	RP13-PC-122
Female - Gold Plating, 24-28 AWG				HR272-ND	.49	.35	.27	RP13A-SC-121
Female - Silver Plating, 24-28 AWG				HR273-ND	.53	.33	.22	RP13A-SC-122
Pins for Size 13 Superthick Wires — RoHS Compliant								
Male - Silver Plating, 18-22 AWG				HR274-ND	.55	.34	.23	RP13-PC-112
Female - Silver Plating, 18-22 AWG				HR275-ND	.53	.33	.22	RP13A-SC-112
Male - Silver Plating 18-22 AWG				HR276-ND	.35	.22	.15	RP19-PC-112
Female - Silver Plating 18-22 AWG				HR277-ND	.35	.22	.15	RP19-SC-112
Pins for 20 Contact — RoHS Compliant								
Male - Silver Plating 18-22 AWG				HR276-ND	.35	.22	.15	RP19-PC-112
Female - Silver Plating 18-22 AWG				HR277-ND	.35	.22	.15	RP19-SC-112
Male - Gold Plating 24-30 AWG				HR278-ND	.44	.31	.24	RP19-PC-121
Female - Gold Plating 24-30 AWG				HR279-ND	.50	.35	.27	RP19-SC-121
Male - Silver Plating 24-30 AWG				HR280-ND	.40	.25	.17	RP19-PC-122
Female - Silver Plating 24-28 AWG				HR281-ND	.37	.23	.16	RP19-SC-122

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Tools			
Manual Crimping Tool for RP13 Series 18-22 AWG	H9973-ND	619.78	RP13-TC-11
Manual Crimping Tool for RP13 Series 24-28 AWG	H9972-ND	619.78	RP13-TC-12
Manual Crimping Tool for RP13A Series 18-22 AWG	H9971-ND	619.78	RP13A-TC-11
Manual Crimping Tool for RP13A Series 24-28 AWG	H9970-ND	619.78	RP13A-TC-12
Manual Crimping Tool for RP19 Series 18-22 AWG	H9969-ND	661.01	RP19-TC-11
Manual Crimping Tool for RP19 Series 24-30 AWG	H9968-ND	661.01	RP19-TC-12
Cable Crimping Tool for RP13A Series - Wire Dim. 7.3-8.3 mm	H9967-ND	741.00	RP13A-TC-01
Cable Crimping Tool for RP13A Series - Wire Dim. 7.5-8.6 mm	H9966-ND	741.00	RP13A-TC-02
Extractor - Male Terminals RP13	H9965-ND	8.09	RP13-PC-TP
Extractor - Female Terminals RP13A	H9964-ND	4.52	RP13A-SC-TP

RP17 Series Push-Pull Lock Connectors

Specifications: • **Withstanding Voltage:** 1000VAC for 1 minute • **Current Capacity:** 5A (AWG18-22) Fits contact No. 2,11, 12 2A (AWG24-30) Fits contact #1, 3, 4, 5, 6, 7, 8, 9, 10 • **Insulation Resistance:** 1000MΩ minimum at 500VDC • **Contact Resistance:** 15mΩ maximum at 1A VDC • **Applicable Wire:** AWG18-22 (Large barrel) AWG24-30 (Small barrel)

Features: One touch "push-pull lock" coupling mechanism assures easy and quick connection and disconnection. Use applicable cable • AWG18-22 (shielded outer diameter. 1.7mm under) to 3 pins among 12 pins and other applicable cable • AWG24-30 (shielded outer diameter. 1.2mm under) to be usable due to crimp terminal. Mating guide keys is multiple polarizing to be ensured specified position. Simple and slender appearance with internal installed cable clamp. External appearance is matte finish black color. Mating position mark is located with white color, assures easy and quick connection and disconnection.

Fig. 1

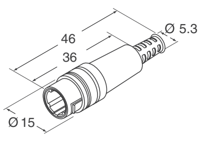

Fig. 2

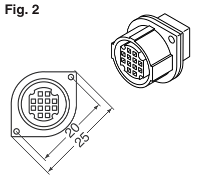

Fig. 3

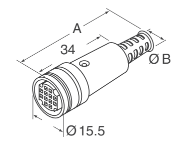

Fig.	No. of Pos.	Description	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	12	Plug - Male Crimp	—	—	HR1269-ND◆	6.84	5.67	4.72	RP17-13P-12PC(71)
		Plug (ESD) Male Crimp	—	—	HR1274-ND◆	6.97	5.90	4.96	RP17A-13P-12PC(71)
2	12	Recept. - Female Crimp	—	—	HR1270-ND◆	2.57	2.14	1.78	RP17-13R-12SC(71)
		Recept. - Female Dip	—	—	HR1271-ND◆	5.97	4.95	4.12	RP17-13RA-12SD(71)
		Recept. (ESD) Female Dip	—	—	HR286-ND	6.61	5.48	4.56	RP17A-13RA-12SD
		Recept. (ESD) Female Dip	—	—	HR1275-ND◆	6.84	5.67	4.72	RP17A-13RA-12SD(71)
3	12	Jack - Female Crimp	44	5.3	HR1272-ND◆	8.06	6.82	5.74	RP17-13J-12SC(71)
		Jack - Female Crimp	49	5.1	HR1273-ND◆	8.19	6.93	5.83	RP17-13JA-12SC(71)
Contacts — RoHS Compliant									
Male Pin AWG 18-22					HR289-ND	.43	.30	.23	RP17-PC-112
Male Pin AWG 24-30					HR290-ND	.43	.30	.23	RP17-PC-122
Female Pin AWG 18-22					HR291-ND	.43	.30	.23	RP17-SC-112
Female Pin AWG 24-30					HR292-ND	.43	.30	.23	RP17-SC-122
Tools									
Manual Crimping Tool for AWG 18-22					H9963-ND		619.78/1		RP17-TC-11
Manual Crimping Tool for AWG 24-30					H9962-ND		619.78/1		RP17-TC-12
Cable Crimping Tool					H9961-ND		344.47/1		RP17-TC-01

◆ *RoHS Compliant*

RP Series Plastic Connectors 12mm Connectors Panel Mount

Specifications:
- Operating Voltage: 150VAC (6, 7 pin), 250VAC (3 pin)
- Current Rating: 5A
- Contact Resistance: 5mΩ maximum at 1A DC

Materials:
- Male Pin: Brass and silver plating
- Female Pin:
  Phosphor bronze and silver plating

RP1

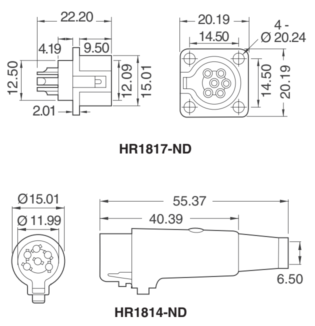

RP2

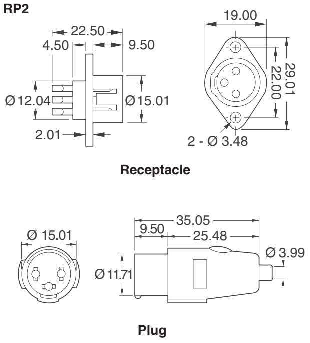

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
RP1 Series, 12mm						
6	Receptacle with Pin Insert	HR1817-ND	3.12	2.60	1.92	RPC1-12RB-6P(71)
6	Plug with Socket Insert	HR1814-ND	4.26	3.53	2.65	RPC1-12P-6S(72)
RP2 Series, 12mm						
3	Receptacle with Pin Insert	HR1818-ND	2.02	1.68	1.24	RPC2-12RB-3P(71)
7	Receptacle with Pin Insert	HR1819-ND	3.19	2.64	1.98	RPC2-12RB-7P(71)
3	Plug with Socket Insert	HR1815-ND	3.71	3.08	2.31	RPC2-12P-3S(71)
7	Plug with Socket Insert	HR1816-ND	4.61	3.82	2.87	RPC2-12P-7S(71)

BULGIN

400 Series Buccaneer® Connectors

Features: • Sealed to IP68 when mated • Scoop proof contacts • 2.5mm contact engagement for electrical integrity **Electrical Specifications:** • Current Rating: 2,3 position 8A/250V; 4,6,8 position 5A/125V; 10,12 position 1A/50V • Contact Resistance: <5mΩ • Insulation Resistance: >10^6MΩ @ 500VDC • AC Breakdown Voltage: 2.5kV • Operating Temperature Range: -40°C ~ 80°C **Material Specifications:** • Body Moulding: Polyamide • Flammability: UL94V-0 • UV Resistance: To EN 50021: 1999 • Contacts: Copper alloy, Gold plated • O-Rings: Nitrile • Panel Sealing O-Ring: Nitrile

Dim. in mm

Fig. 1

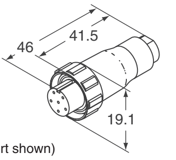

(Socket insert shown)

Fig. 2

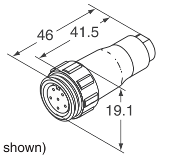

(Socket insert shown)

Fig. 3

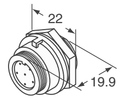

(Socket insert shown)

Fig. 4

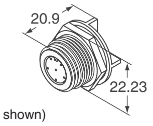

(Socket insert shown)

Fig.	No. of Positions	Cable Entry Size (mm)	Digi-Key Part No.	Price Each			Bulgin Part No.
				1	25	50	
Flex Cable Plug Connectors without Contacts							
1	2	5.5 ~ 6.0	708-1030-ND	5.71	5.24	4.66	PX0410/02P/5560
	3	5.5 ~ 6.0	708-1031-ND	5.71	5.24	4.66	PX0410/03P/5560
	4	4.5 ~ 5.0	708-1032-ND	5.71	5.24	4.66	PX0410/04P/4550
	6	4.5 ~ 5.0	708-1033-ND	5.71	5.24	4.66	PX0410/06P/4550
	8	6.0 ~ 6.5	708-1034-ND	5.71	5.24	4.66	PX0410/08P/6065
	10	6.0 ~ 6.5	708-1035-ND	5.71	5.24	4.66	PX0410/10P/6065
	12	6.0 ~ 6.5	708-1036-ND	5.71	5.24	4.66	PX0410/12P/6065
Flex Cable Receptacles without Contacts							
1	2	5.5 ~ 6.0	708-1037-ND	5.71	5.24	4.66	PX0410/02S/5560
	3	5.5 ~ 6.0	708-1038-ND	5.71	5.24	4.66	PX0410/03S/5560
	4	4.5 ~ 5.0	708-1039-ND	5.71	5.24	4.66	PX0410/04S/4550
	6	4.5 ~ 5.0	708-1040-ND	5.71	5.24	4.66	PX0410/06S/4550
	8	6.0 ~ 6.5	708-1041-ND	5.71	5.24	4.66	PX0410/08S/6065
	10	6.0 ~ 6.5	708-1042-ND	5.71	5.24	4.66	PX0410/10S/6065
	12	6.0 ~ 6.5	708-1043-ND	5.71	5.24	4.66	PX0410/12S/6065
In-Line Flex Cable Plug Connectors without Contacts							
2	2	5.5 ~ 6.0	708-1044-ND	5.71	5.24	4.66	PX0411/02P/5560
	3	5.5 ~ 6.0	708-1045-ND	5.71	5.24	4.66	PX0411/03P/5560
	4	4.5 ~ 5.0	708-1046-ND	5.71	5.24	4.66	PX0411/04P/4550
	6	4.5 ~ 5.0	708-1047-ND	5.71	5.24	4.66	PX0411/06P/4550
	8	6.0 ~ 6.5	708-1048-ND	5.71	5.24	4.66	PX0411/08P/6065
	10	6.0 ~ 6.5	708-1049-ND	5.71	5.24	4.66	PX0411/10P/6065
	12	6.0 ~ 6.5	708-1050-ND	5.71	5.24	4.66	PX0411/12P/6065
In-Line Flex Cable Receptacles without Contacts							
2	2	5.5 ~ 6.0	708-1051-ND	5.71	5.24	4.66	PX0411/02S/5560
	3	5.5 ~ 6.0	708-1052-ND	5.71	5.24	4.66	PX0411/03S/5560
	4	4.5 ~ 5.0	708-1053-ND	5.71	5.24	4.66	PX0411/04S/4550
	6	4.5 ~ 5.0	708-1054-ND	5.71	5.24	4.66	PX0411/06S/4550
	8	6.0 ~ 6.5	708-1055-ND	5.71	5.24	4.66	PX0411/08S/6065
	10	6.0 ~ 6.5	708-1056-ND	5.71	5.24	4.66	PX0411/10S/6065
	12	6.0 ~ 6.5	708-1057-ND	5.71	5.24	4.66	PX0411/12S/6065
Jam Nut Panel Mount Plug Connectors without Contacts							
3	2	—	708-1058-ND	4.86	4.46	3.97	PX0412/02P
	3		708-1059-ND	4.86	4.46	3.97	PX0412/03P
	4		708-1060-ND	4.86	4.46	3.97	PX0412/04P
	6		708-1061-ND	4.86	4.46	3.97	PX0412/06P
	8		708-1062-ND	4.86	4.46	3.97	PX0412/08P
	10	—	708-1063-ND	4.86	4.46	3.97	PX0412/10P
	12		708-1064-ND	4.86	4.46	3.97	PX0412/12P
Jam Nut Panel Mount Receptacles without Contacts							
3	2	—	708-1065-ND	4.86	4.46	3.97	PX0412/02S
	3		708-1066-ND	4.86	4.46	3.97	PX0412/03S
	4		708-1067-ND	4.86	4.46	3.97	PX0412/04S
	6		708-1068-ND	4.86	4.46	3.97	PX0412/06S
	8		708-1069-ND	4.86	4.46	3.97	PX0412/08S
	10	—	708-1070-ND	4.86	4.46	3.97	PX0412/10S
	12		708-1071-ND	4.86	4.46	3.97	PX0412/12S
PCB Mount Receptacles with Pin Contacts							
4	2	—	708-1072-ND	5.95	5.53	4.90	PX0413/02P/PC
	3		708-1073-ND	7.21	6.70	5.94	PX0413/03P/PC
	4		708-1074-ND	9.67	8.98	7.95	PX0413/04P/PC
	6		708-1075-ND	12.15	11.28	9.98	PX0413/06P/PC
	8		708-1076-ND	14.73	13.68	12.10	PX0413/08P/PC
	10	—	708-1077-ND	16.16	15.00	13.27	PX0413/10P/PC
	12		708-1078-ND	17.08	15.86	14.03	PX0413/12P/PC
PCB Mount Receptacles with Socket Contacts							
4	2	—	708-1079-ND	6.81	6.32	5.60	PX0413/02S/PC
	3		708-1080-ND	8.17	7.60	6.73	PX0413/03S/PC
	4		708-1081-ND	11.10	10.31	9.11	PX0413/04S/PC
	6		708-1082-ND	13.80	12.82	11.34	PX0413/06S/PC
	8		708-1083-ND	16.58	15.40	13.61	PX0413/08S/PC
	10	—	708-1084-ND	18.91	17.55	15.53	PX0413/10S/PC
	12		708-1085-ND	21.69	20.14	17.82	PX0413/12S/PC
Contacts / Sealing Caps / Tools							
Crimp Sockets, 8A 20~24AWG, 2~3 Position			708-1086-ND‡	10.44	9.59	8.53	SA3349
Crimp Sockets, 5A 22~26AWG, 4~8 Position			708-1088-ND‡	9.62	8.84	7.85	SA3347
Crimp Sockets, 1A 24~28AWG, 10~12 Position			708-1147-ND‡	6.91	6.35	5.64	SA3179
Crimp Pins, 8A 20~24AWG, 2~3 Position			708-1087-ND‡	7.64	7.02	6.24	SA3350
Crimp Pins, 5A 22~26AWG, 4~8 Position			708-1089-ND‡	6.04	5.55	4.93	SA3348
Crimp Pins, 1A 24~28AWG, 10~12 Position			708-1090-ND‡	4.66	4.28	3.80	SA3180
Solder Sockets, 8A, 20~24AWG, 2~3 Position			708-1091-ND‡	10.44	9.59	8.53	SA3349/1
Solder Sockets, 5A, 22~26AWG, 4~8 Position			708-1093-ND‡	9.62	8.84	7.85	SA3347/1
Solder Sockets, 1A, 24~28AWG, 10~12 Position			708-1095-ND‡	6.91	6.35	5.64	SA3179/1
Solder Pins, 8A, 20~24AWG, 2~3 Position			708-1092-ND‡	7.64	7.02	6.24	SA3350/1
Solder Pins, 5A, 22~26AWG, 4~8 Position			708-1094-ND‡	6.04	5.55	4.93	SA3348/1
Solder Pins, 1A, 24~28AWG, 10~12 Position			708-1096-ND‡	4.66	4.28	3.80	SA3180/1
Sealing Cap for PX0412 Series			708-1275-ND	1.45	1.33	1.18	PX0480
Sealing Cap for PX0411 Series			708-1097-ND	1.45	1.33	1.18	PX0480/1
Sealing Cap for PX0413 Series			708-1098-ND	1.76	1.63	1.45	PX0484
Pack of 4 Cable Glands, for 3~5mm Cable			708-1099-ND	1.04	.96	.85	PX0482
Pack of 4 Cable Glands, for 5~7mm Cable			708-1100-ND	1.04	.96	.85	PX0483
Insertion/Extraction Tool for 1A Contacts			708-1183-ND	7.91	—	—	13027
Insertion/Extraction Tool for 5A Contacts			708-1101-ND	7.91	—	—	13027/1
Insertion/Extraction Tool for 8A Contacts			708-1102-ND	7.91	—	—	13027/2
Crimp positioner Tool for 1A Contacts			708-1104-ND	115.71	—	—	14025/1AMP
Crimp positioner Tool for 5A Contacts			708-1105-ND	115.71	—	—	14025/5AMP
Crimp positioner Tool for 8A Contacts			708-1106-ND	115.71	—	—	14025/8AMP
Crimp Tool for use with Positioners			708-1103-ND	702.19	—	—	14025

‡ Sold in packs of 10: 1=10pcs, 25=250pcs, 50=500pcs

Standard Buccaneer® Connectors

Features: • Water and dustproof to IP68 when mated • Easy assembly – No special tools required on screw • Positive locating keyways **Electrical Specifications:** Current Rating: 2,3 Pos. 10A/250V; 4 Pos. 6A/250V; 6,7 Pos. 3A/250V; 9 Pos. 5A/150V; 12 Pos. 5A/50V; 25 Pos. 1A/50V • Contact Resistance: 2 ~ 9 Pos. <10mΩ; 12 ~ 25 Pos. <5mΩ • Operating Temperature Range: -20°C ~ 70°C

Fig. 1

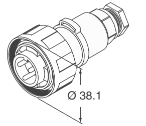

(Pin insert shown)

Fig. 2

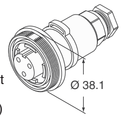

(Socket insert shown)

Fig. 3

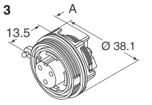

(Socket insert shown)

Fig. 4

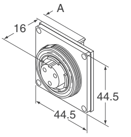

(Socket insert shown)

Fig. 5

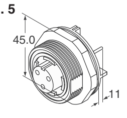

(Socket insert shown)

Fig. 6

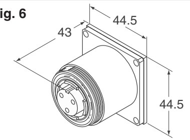

Fig.	No. of Positions	Dim.A (mm)	Termination	Digi-Key Part No.	Price Each			Bulgin Part No.
					1	25	50	
Flex Cable Connectors with Pin Contacts								
1	2	—	Screw	708-1107-ND	10.05	8.94	7.93	PX0736/P
	3		Screw	708-1108-ND	10.67	9.50	8.58	PX0731/P
	4		Screw	708-1109-ND	11.59	10.65	9.46	PX0748/P
	6		Screw	708-1110-ND	11.99	10.66	9.69	PX0739/P
	7		Screw	708-1111-ND	12.28	11.28	10.03	PX0745/P
	9	—	Crimp	708-1112-ND	10.90	10.01	8.90	PX0728/P
	12		Crimp/Solder	708-1113-ND†	11.09	10.30	9.11	PX0794/P
	25		Crimp/Solder	708-1114-ND†	7.22	6.63	5.89	PX0820/P
Flex Cable Connectors with Socket Contacts								
1	2	—	Screw	708-1115-ND	12.10	10.76	9.85	PX0736/S
	3		Screw	708-1116-ND	12.71	11.32	10.45	PX0731/S
	4		Screw	708-1117-ND	13.29	12.21	10.85	PX0748/S
	6		Screw	708-1118-ND	15.41	13.72	12.68	PX0739/S
	7		Screw	708-1119-ND	15.27	14.03	12.47	PX0745/S
	9	—	Crimp	708-1120-ND	10.90	10.01	8.90	PX0728/S
	12		Crimp/Solder	708-1121-ND†	11.09	10.30	9.11	PX0794/S
	25		Crimp/Solder	708-1122-ND†	7.22	6.63	5.89	PX0820/S
In-Line Flex Cable Connectors with Pin Contacts								
2	2	—	Screw	708-1148-ND	11.62	10.35	9.36	PX0737/P
	3		Screw	708-1149-ND	12.25	10.89	9.85	PX0732/P
	4		Screw	708-1150-ND	13.29	12.21	10.85	PX0749/P
	6		Screw	708-1151-ND	13.35	11.88	10.84	PX0740/P
	7		Screw	708-1152-ND	14.12	12.97	11.53	PX0746/P
	9	—	Crimp	708-1153-ND	12.51	11.49	10.21	PX0729/P
	12		Crimp/Solder	708-1154-ND†	11.09	10.30	9.11	PX0795/P
	25		Crimp/Solder	708-1155-ND†	7.62	6.99	6.22	PX0821/P
In-Line Flex Cable Connectors with Socket Contacts								
2	2	—	Screw	708-1156-ND	13.66	12.16	10.86	PX0737/S
	3		Screw	708-1157-ND	14.29	12.71	11.54	PX0732/S
	4		Screw	708-1158-ND	15.13	13.90	12.35	PX0749/S
	6		Screw	708-1159-ND	16.17	14.39	13.07	PX0740/S
	7		Screw	708-1160-ND	17.11	15.72	13.97	PX0746/S
	9	—	Crimp	708-1161-ND	12.51	11.49	10.21	PX0729/S
	12		Crimp/Solder	708-1162-ND†	11.09	10.30	9.11	PX0795/S
	25		Crimp/Solder	708-1163-ND†	7.62	6.99	6.22	PX0821/S
Panel Mount Jam Nut Connectors with Pin Contacts								
3	2	11.0	Screw	708-1123-ND	7.85	6.99	6.50	PX0735/P
	3	14.3	Screw	708-1124-ND	8.63	7.68	7.03	PX0730/P
	4	11.8	Screw	708-1125-ND	9.25	8.49	7.55	PX0747/P
	6	11.8	Screw	708-1126-ND	9.74	8.66	7.98	PX0738/P
	7	20.0	Screw	708-1127-ND	10.26	9.42	8.37	PX0744/P
	9	19.8	Crimp	708-1128-ND	8.56	7.86	6.98	PX0727/P
	12	9.6	Crimp/Solder	708-1129-ND†	11.49	10.67	9.43	PX0796/P
	25	9.6	Crimp/Solder	708-1130-ND†	5.44	5.00	4.44	PX0822/P
Panel Mount Jam Nut Connectors with Socket Contacts								
3	2	19.0	Screw	708-1131-ND	9.92	8.83	7.98	PX0735/S
	3	21.95	Screw	708-1132-ND	10.67	9.50	8.58	PX0730/S
	4	14.95	Screw	708-1133-ND	11.09	10.18	9.05	PX0747/S
	6	14.95	Screw	708-1134-ND	13.12	11.77	11.25	PX0738/S
	7	21.65	Screw	708-1135-ND	13.29	12.21	10.85	PX0744/S
	9	9.6	Crimp	708-1136-ND	8.56	7.86	6.98	PX0727/S
	12	11.4	Crimp/Solder	708-1137-ND†	11.49	10.67	9.43	PX0796/S
	25	9.6	Crimp/Solder	708-1138-ND†	5.44	5.00	4.44	PX0822/S
Low Profile Box Mount Connectors with Pin Contacts								
4	2	11.0	Screw	708-1139-ND	10.34	9.19	8.41	PX0764/P
	3	14.3	Screw	708-1140-ND	10.34	9.20	8.42	PX0765/P
	6	11.8	Screw	708-1141-ND	11.40	10.15	9.30	PX0767/P
	9	19.8	Crimp	708-1142-ND	12.42	11.41	10.14	PX0769/P

† Contacts not included – Order separately
‡ Sold in packs of 10: 1=10pcs, 25=250pcs, 50=500pcs

(Continued)

BULGIN

Standard Buccaneer® Connectors *(Cont.)*

Fig.	No. of Positions	Dim.A (mm)	Termination	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
Low Profile Box Mount Connectors with Socket Contacts								
4	2	19.0	Screw	708-1143-ND	11.56	10.28	9.40	PX0764/S
	3	21.95	Screw	708-1144-ND	12.32	10.97	10.04	PX0765/S
	6	14.95	Screw	708-1145-ND	14.16	12.61	11.53	PX0767/S
	9	9.6	Crimp	708-1146-ND	12.42	11.41	10.14	PX0769/S
Rear Panel Mount Connectors with Pin Contacts								
5	3	—	PCB	708-1164-ND	11.91	11.06	9.78	PX0707/P/03
	6		PCB	708-1165-ND	14.38	13.35	11.81	PX0707/P/06
	9		PCB	708-1166-ND	17.09	15.87	14.04	PX0707/P/09
	12		PCB	708-1167-ND	18.89	17.54	15.51	PX0707/P/12
	25		PCB	708-1168-ND	28.81	26.76	23.67	PX0707/P/25
Rear Panel Mount Connectors with Socket Contacts								
5	3	—	PCB	708-1169-ND	15.10	14.03	12.41	PX0707/S/03
	6		PCB	708-1170-ND	19.79	18.38	16.26	PX0707/S/06
	9		PCB	708-1171-ND	21.60	20.05	17.74	PX0707/S/09
	12		PCB	708-1172-ND	23.40	21.73	19.23	PX0707/S/12
	25		PCB	708-1173-ND	33.33	30.95	27.38	PX0707/S/25
Bulkhead Connectors with Socket Contacts								
6	2	—	Screw	708-1174-ND	11.80	10.50	9.15	PX0757/S
	3		Screw	708-1175-ND	12.64	11.25	9.97	PX0756/S
	6		Screw	708-1176-ND	14.52	12.92	11.25	PX0758/S
Contacts, Sealing Caps and Tools								
Crimp Sockets, 5A 22~26AWG, 12 Position				708-1088-ND‡	9.62	8.84	7.85	SA3347
Crimp Sockets, 5A, 24~28AWG, 25 Position				708-1147-ND‡	6.91	6.35	5.64	SA3179
Crimp Pins, 5A 22~26AWG, 12 Position				708-1089-ND‡	6.04	5.55	4.93	SA3348
Crimp Pins, 1A 24~28AWG, 25 Position				708-1090-ND‡	4.66	4.28	3.80	SA3180
Solder Sockets, 5A, 22~26AWG, 12 Position				708-1093-ND‡	9.62	8.84	7.85	SA3347/1
Solder Sockets, 1A, 24~28AWG, 25 Position				708-1095-ND‡	6.91	6.35	5.64	SA3179/1
Solder Pins, 5A, 22~26AWG, 12 Position				708-1094-ND‡	6.04	5.55	4.93	SA3348/1
Solder Pins, 1A, 24~28AWG, 25 Position				708-1096-ND‡	4.66	4.28	3.80	SA3180/1
Cable Joiner for 6mm~8mm diameter cables				708-1177-ND	10.43	9.58	8.52	PX0777
Sealing Cap for Flex Cable Connectors				708-1178-ND	1.48	1.36	1.21	PX0734
Sealing Cap for PCB and Rear Panel Mount Connectors				708-1179-ND	1.90	1.69	1.48	PX0711
Sealing Cap for In-Line Flex, Front Panel, Bulkhead and Box Mount Connectors				708-1180-ND	1.14	1.04	.93	PX0733
Hand Crimp Tool, 9 Position				708-1181-ND	151.17	—	—	13826
Hand Crimp Tool, 25 Position				708-1182-ND	384.10	—	—	13170
Insertion/Extraction Tool for 1A Contacts				708-1183-ND	7.91	—	—	13027
Insertion/Extraction Tool for 5A Contacts				708-1101-ND	7.91	—	—	13027/1
Crimp Positioner Tool for 5A Contacts				708-1105-ND	115.71	—	—	14025/5AMP
Crimp Tool for use with Positioners				708-1103-ND	702.19	—	—	14025

† Contacts not included – Order separately ‡ Sold in packs of 10: 1=10pcs, 25=250pcs, 50=500pcs

900 Series Buccaneer® Connectors

Features: • Dust and waterproof to IP68 when mated • Field Termination – Screw terminations • Positive locating keyways • Easy assembly – No special tools required • Fits 13mm ~ 15mm cables **Electrical Specifications:** Contact Resistance: <10mΩ (initial) • Insulation Resistance: >10^6MΩ @ 500VDC • Dielectric Strength: 2.2kVAC minimum • AC Breakdown voltage: 6kV • Operating Temperature Range: -40°C ~ 85°C **Material Specifications:** • Body Mouldings: Polyamide • Flammability Rating: UL94V-0 • UV Resistance: To EN50021: 1999 • Contacts: Machined solid brass, Nickel plated • O-Rings: Nitrile • Panel Sealing Gasket: Silicone rubber

Fig. 1

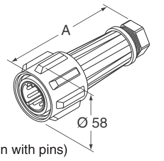

(Shown with pins)

Fig. 2

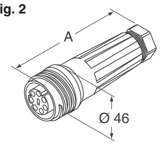

Fig. 3

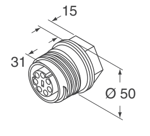

Fig. 4

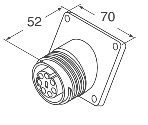

Fig. 5

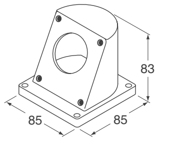

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
Plug Connectors with Pins							
1	2	127	708-1184-ND	19.14	17.57	15.62	PX0911/02/P
	3	127	708-1185-ND	21.31	19.57	17.40	PX0911/03/P
	4	127	708-1186-ND	23.44	21.53	19.13	PX0911/04/P
	5	127	708-1187-ND	25.66	23.57	20.95	PX0911/05/P
	7	146	708-1188-ND†	39.31	36.10	32.09	PXA911/07/P
Plug Connectors with Sockets							
1	2	127	708-1189-ND	20.23	18.57	16.51	PX0911/02/S
	3	127	708-1190-ND	22.85	20.98	18.65	PX0911/03/S
	4	127	708-1191-ND	25.52	23.43	20.83	PX0911/04/S
	5	127	708-1192-ND	28.14	25.84	22.97	PX0911/05/S
	7	146	708-1193-ND†	42.28	38.83	34.51	PXA911/07/S
Receptacles with Pins							
2	2	127	708-1194-ND	14.79	13.58	12.07	PX0921/02/P
	3	127	708-1195-ND	16.96	15.58	13.85	PX0921/03/P
	4	127	708-1196-ND	19.14	17.57	15.62	PX0921/04/P
	5	127	708-1197-ND	21.31	19.57	17.40	PX0921/05/P
	7	146	708-1198-ND†	34.37	31.56	28.06	PXA921/07/P
Receptacles with Sockets							
2	2	127	708-1199-ND	15.87	14.58	12.96	PX0921/02/S
	3	127	708-1200-ND	18.49	16.98	15.10	PX0921/03/S
	4	127	708-1201-ND	21.16	19.44	17.28	PX0921/04/S
	5	127	708-1202-ND	23.79	21.84	19.42	PX0921/05/S
	7	146	708-1203-ND†	37.33	34.29	30.48	PXA921/07/S

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
Jam Nut Connectors with Pins							
3	2	—	708-1204-ND	12.51	11.49	10.21	PX0931/02/P
	3		708-1205-ND	14.74	13.53	12.03	PX0931/03/P
	4		708-1206-ND	16.86	15.49	13.77	PX0931/04/P
	5		708-1207-ND	19.09	17.53	15.58	PX0931/05/P
	7		708-1208-ND	29.42	27.02	24.02	PX0931/07/P
Jam Nut Connectors with Sockets							
3	2	—	708-1209-ND	13.65	12.53	11.14	PX0931/02/S
	3		708-1210-ND	16.27	14.94	13.28	PX0931/03/S
	4		708-1211-ND	18.89	17.35	15.42	PX0931/04/S
	5		708-1212-ND	21.56	19.80	17.60	PX0931/05/S
	7		708-1213-ND	32.39	29.75	26.44	PX0931/07/S
Box Mount Connectors with Pins							
4	2	—	708-1214-ND	23.14	21.25	18.89	PX0941/02/P
	3		708-1215-ND	25.32	23.25	20.67	PX0941/03/P
	4		708-1216-ND	27.54	25.30	22.48	PX0941/04/P
	5		708-1217-ND	29.67	27.25	24.22	PX0941/05/P
	7		708-1218-ND	39.81	36.56	32.50	PX0941/07/P
Box Mount Connectors with Sockets							
4	2	—	708-1219-ND	24.23	22.25	19.78	PX0941/02/S
	3		708-1220-ND	26.85	24.66	21.92	PX0941/03/S
	4		708-1221-ND	29.52	27.11	24.10	PX0941/04/S
	5		708-1222-ND	32.14	29.52	26.24	PX0941/05/S
	7		708-1223-ND	43.02	39.51	35.12	PX0941/07/S

† Fits Larger Cables, 20mm ~ 22mm

Accessories

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
5	Bulkhead Adapter for use with Flange Mount Connectors	708-1224-ND	20.18	18.53	16.47	PX0950
—	Sealing Cap for PX0911 and PXA911	708-1225-ND	3.02	2.77	2.46	PX0960
	Sealing Cap for PX0921, PXA921, PX0931, and PX0941	708-1226-ND	5.54	5.09	4.52	PX0970
	Cable Glands for PX0911 and PX0921, 1 each of 11~13, 9~11 and 7~9mm Diameter.	708-1227-ND	2.23	2.04	1.82	PX0980
	Cable Glands for PXA911 and PXA921, 1 each of 18~20, 16~18, 14~16mm Diameter.	708-1228-ND	2.23	2.04	1.82	PXA980

Mini Buccaneer® Connectors

Features: • Water and dustproof to IP68 when mated • Positive locating keyways • Flammability: UL94V-0 **Electrical Specifications:** • Current Rating: Solder/Crimp Terminals: 5A/380VAC 3,8 position; Screw Terminals: 10A/250VAC 2,3 position; 6A/250VAC 4 position; 3A/250VAC 6 position • Contact Resistance: <5mΩ • Insulation Resistance: >10^6MΩ @ 500VDC • Voltage Proof: 2kV @ 50Hz • Operating Temperature Range: -20°C ~ 70°C **Material Specifications:** • Body Moulding: Polyamide • Inserts: Polyamide • Contacts: Solder/Crimp Terminals: Copper alloy, Gold plated 0.1µm on nickel; Screw Terminals: Brass, Nickel plated • O-Rings (Solder/Crimp Terminals): Nitrile

Dim. in mm

Fig. 1

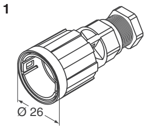

Fig. 2

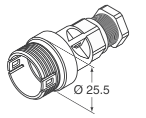

Fig. 3

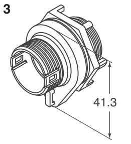

Fig. 4

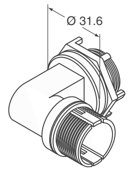

Fig. 5

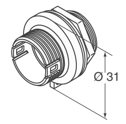

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
Cable Connectors — Fits 5mm ~ 7mm Cable, Inserts Sold Separately						
1	Flex Connector	708-1238-ND	4.85	4.28	3.96	PX0800
2	In-Line Flex Connector	708-1239-ND	4.45	3.95	3.67	PX0801
3	Panel Mount Connector	708-1240-ND	4.14	3.68	3.34	PX0802
4	Right Angle Panel Mount Connector	708-1241-ND	4.45	3.95	3.59	PX0803
5	Panel Mount Connector, with Sealing Cap and Retaining Clip	708-1242-ND	4.45	3.95	3.59	PX0805
Inserts, Contacts, Sealing Caps, Tools						
2 Position Screw Terminal Socket Insert		708-1243-ND	4.80	4.41	3.92	SA3319
3 Position Screw Terminal Socket Insert		708-1244-ND	8.70	7.99	7.10	SA3229
4 Position Screw Terminal Socket Insert		708-1245-ND	8.85	8.13	7.23	SA3242
6 Position Screw Terminal Socket Insert		708-1246-ND	9.59	8.81	7.83	SA3244
2 Position Screw Terminal Pin Insert		708-1247-ND	6.23	5.72	5.09	SA3320
3 Position Screw Terminal Pin Insert		708-1248-ND	5.04	4.63	4.12	SA3230
4 Position Screw Terminal Pin Insert		708-1249-ND	6.33	5.81	5.17	SA3241
6 Position Screw Terminal Pin Insert		708-1250-ND	7.02	6.45	5.73	SA3243
3 Position Pin Carrier Insert, Solder Black		708-1254-ND	.76	.70	.62	12734/3/1
3 Position Socket Carrier Insert, Solder Black		708-1255-ND	.85	.78	.69	12735/3/1
8 Position Pin Carrier Insert, Solder Black		708-1252-ND	.76	.70	.62	12734/1
8 Position Socket Carrier Insert, Solder Black		708-1253-ND	.85	.78	.69	12735/1
3 Position Pin Carrier Insert, Crimp Grey		708-1257-ND	.76	.70	.62	12734/3
3 Position Socket Carrier Insert, Crimp Grey		708-1258-ND	.85	.78	.69	12735/3
8 Position Pin Carrier Insert, Crimp Grey		708-1251-ND	.76	.70	.62	12734
8 Position Socket Carrier Insert, Crimp Grey		708-1256-ND	.85	.78	.69	12735
Crimp Pins		708-1264-ND‡	2.13	1.95	1.74	SA3148
Crimp Sockets		708-1265-ND‡	3.71	3.41	3.03	SA3149
Solder Pins		708-1259-ND‡	2.13	1.95	1.74	SA3148/1
Solder Sockets		708-1260-ND‡	3.71	3.41	3.03	SA3149/1
Polarizing/Blanking Pins		708-1261-ND‡	1.04	.95	.85	SA3147
Sealing Cap, Fits PX0801, 02, 03, 05		708-1266-ND	1.48	1.36	1.21	PX0810
Sealing Cap, Fits PX0800		708-1267-ND	1.48	1.36	1.21	PX0811
Contact Insertion Tool		708-1262-ND	26.95	—	—	SA3150
Hand Crimping Tool		708-1263-ND	395.60	—	—	SA2800

‡ Sold in packs of 10: 1=10pcs, 25=250pcs, 50=500pcs

Plugs and Jacks

Fig. 1

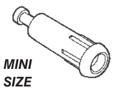

MINI SIZE

Fig. 2

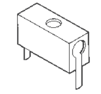

Fig. 3

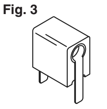

Fig. 4

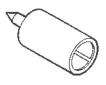

Fig. 5

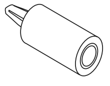

Fig. 6

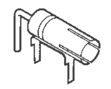

Fig. 7

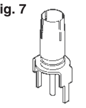

Fig. 8

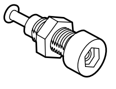

Fig. 9

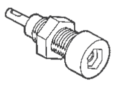

Fig. 10

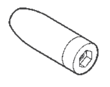

Fig. 11

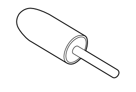

Fig. 12

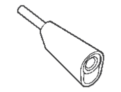

Fig. 13

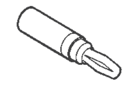

Fig. 14

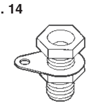

Fig. 15

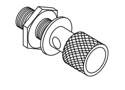

Fig. 16

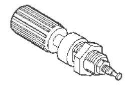

Fig. 17

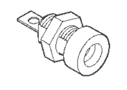

Fig. 18

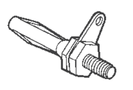

Fig. 19

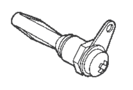

Fig. 20

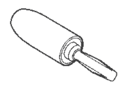

Fig. 21

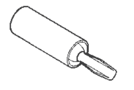

Fig. 22

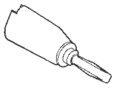

Fig.	Color	Digi-Key Part No.	Pricing 1	10	100	250	500	1,000	Johnson Part No.
Tip Jacks – for Standard Tip Plug: 2.03mm									
1	White	J330-ND	1.27	11.33	89.68	188.80	354.00	660.80	105-1041-001
	Red	J124-ND	1.27	11.33	89.68	188.80	354.00	660.80	105-1042-001
	Black	J125-ND	1.27	11.33	89.68	188.80	354.00	660.80	105-1043-001
	Green	J331-ND	1.27	11.33	89.68	188.80	354.00	660.80	105-1044-001
	Yellow	J333-ND	1.27	11.33	89.68	188.80	354.00	660.80	105-1047-001
Horizontal Test Jacks – for Standard Tip Plug: 2.03mm									
2	White	J108-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0751-001
	Red	J109-ND*	.46	4.06	32.11	67.60	126.75	236.60	105-0752-001
	Black	J110-ND*	.46	4.06	32.11	67.60	126.75	236.60	105-0753-001
	Green	J111-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0754-001
	Orange	J112-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0756-001
	Yellow	J113-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0757-001
	Brown	J114-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0758-001
	Blue	J115-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0760-001
	Violet	J116-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0762-001
Horizontal Insulated Miniature Test Jacks – for Standard Tip Plug: 2.03mm									
3	White	J575-ND	.45	3.96	31.35	66.00	123.75	231.00	105-1101-001
	Red	J576-ND	.45	3.96	31.35	66.00	123.75	231.00	105-1102-001
	Black	J577-ND	.45	3.96	31.35	66.00	123.75	231.00	105-1103-001
	Green	J578-ND	.45	3.96	31.35	66.00	123.75	231.00	105-1104-001
	Yellow	J579-ND	.45	3.96	31.35	66.00	123.75	231.00	105-1107-001
	Blue	J580-ND	.45	3.96	31.35	66.00	123.75	231.00	105-1110-001
Vertical Test Jacks – for Standard Tip Plug: 2.03mm									
4	White	J119-ND	.69	6.14	48.64	102.40	192.00	358.40	105-0851-001
	Red	J120-ND	.69	6.14	48.64	102.40	192.00	358.40	105-0852-001
	Black	J121-ND	.69	6.14	48.64	102.40	192.00	358.40	105-0853-001
	Green	J122-ND	.69	6.14	48.64	102.40	192.00	358.40	105-0854-001
	Yellow	J123-ND	.69	6.14	48.64	102.40	192.00	358.40	105-0857-001
	Blue	J312-ND	.69	6.14	48.64	102.40	192.00	358.40	105-0860-001
Vertical Insulated Formed Contact Test Jacks – for Standard Tip Plug: 2.03mm									
5	White	J581-ND	.62	5.54	43.89	92.40	173.25	323.40	105-2201-201
	Red	J582-ND	.62	5.54	43.89	92.40	173.25	323.40	105-2202-201
	Black	J583-ND	.62	5.54	43.89	92.40	173.25	323.40	105-2203-201
	Green	J584-ND	.62	5.54	43.89	92.40	173.25	323.40	105-2204-201
	Yellow	J585-ND	.62	5.54	43.89	92.40	173.25	323.40	105-2207-201
Shielded Test Jack – Horizontal									
6	Tin	J463-ND	4.97	44.14	349.41	735.60	1379.25	2574.60	129-0701-301
	Gold	J571-ND	7.13	62.56	460.95	987.75	1646.25	—	129-0701-302
Shielded Test Jack – Vertical									
7	Tin	J462-ND	5.39	47.90	379.24	798.40	1497.00	2794.40	129-0701-201
	Gold	J570-ND	5.70	50.02	368.55	789.75	1316.25	—	129-0701-202
Tip Jacks – Insulated Deluxe: 2.00mm									
8	White	J105-ND	1.33	11.86	93.86	197.60	370.50	691.60	105-0601-001
	Red	J106-ND	1.33	11.86	93.86	197.60	370.50	691.60	105-0602-001
	Black	J107-ND	1.33	11.86	93.86	197.60	370.50	691.60	105-0603-001
	Green	J337-ND	1.33	11.86	93.86	197.60	370.50	691.60	105-0604-001
	Yellow	J338-ND	1.33	11.86	93.86	197.60	370.50	691.60	105-0607-001
	Blue	J339-ND	1.33	11.86	93.86	197.60	370.50	691.60	105-0610-001
Tip Jacks – Insulated Standard Type: 2.00mm									
9	White	J320-ND	.77	6.84	54.15	114.00	213.75	399.00	105-0801-001
	Red	J117-ND*	.77	6.84	54.15	114.00	213.75	399.00	105-0802-001
	Black	J118-ND*	.77	6.84	54.15	114.00	213.75	399.00	105-0803-001
	Green	J321-ND	.77	6.84	54.15	114.00	213.75	399.00	105-0804-001
	Yellow	J323-ND	.77	6.84	54.15	114.00	213.75	399.00	105-0807-001
	Blue	J325-ND	.77	6.84	54.15	114.00	213.75	399.00	105-0810-001
Tip Jacks with Sleeve Assembly: 2.00mm									
10	Red	J451-ND	1.59	14.11	111.72	235.20	441.00	823.20	105-0702-001
	Black	J452-ND	1.59	14.11	111.72	235.20	441.00	823.20	105-0703-001

Fig.	Color	Digi-Key Part No.	Pricing 1	10	100	250	500	1,000	Johnson Part No.
Tip Plugs – Insulated Solderless Type: 2.00mm									
11	White	J300-ND	.93	8.23	65.17	137.20	257.25	480.20	105-0301-001
	Red	J103-ND*	.93	8.23	65.17	137.20	257.25	480.20	105-0302-001
	Black	J104-ND*	.93	8.23	65.17	137.20	257.25	480.20	105-0303-001
	Green	J301-ND	.93	8.23	65.17	137.20	257.25	480.20	105-0304-001
	Blue	J305-ND	.93	8.23	65.17	137.20	257.25	480.20	105-0310-001
Tip Plugs – Insulated Stacking Single Type: 2.00mm									
12	Red	J454-ND	2.19	19.44	153.90	324.00	607.50	1134.00	105-1202-001
Miniature Banana Plugs – Insulated Solder Type: 2.64mm									
13	Red	J457-ND	1.84	16.34	129.39	272.40	510.75	953.40	108-1002-001
	Black	J458-ND	1.84	16.34	129.39	272.40	510.75	953.40	108-1003-001
Banana Jack – for Standard Banana Plug 4.44mm Across Flats									
14	—	J147-ND*	1.48	13.13	103.93	218.80	410.25	765.80	108-0740-001
Uninsulated w/Knurled Thumb Nut for Standard Banana Plug 4.44mm Across Flats									
15	—	J587-ND	2.85	25.32	200.45	422.00	791.25	1477.00	111-2223-001
Binding Posts – Insulated Standard: 4.44mm									
16	White	J370-ND	2.40	21.31	168.72	355.20	666.00	1243.20	111-0101-001
	Red	J164-ND*	2.40	21.31	168.72	355.20	666.00	1243.20	111-0102-001
	Black	J165-ND*	2.40	21.31	168.72	355.20	666.00	1243.20	111-0103-001
	Green	J371-ND	2.59	22.99	182.02	383.20	718.50	1341.20	111-0104-001
	Yellow	J372-ND	2.40	21.31	168.72	355.20	666.00	1243.20	111-0107-001
Banana Jacks – Insulated Solder Terminal: 4.44mm									
17	White	J150-ND*	.59	5.26	41.61	87.60	164.25	306.60	108-0901-001
	Red	J151-ND*	.59	5.26	41.61	87.60	164.25	306.60	108-0902-001
	Black	J152-ND*	.59	5.26	41.61	87.60	164.25	306.60	108-0903-001
	Green	J153-ND	.66	5.83	46.17	97.20	182.25	340.20	108-0904-001
	Orange	J356-ND	.59	5.26	41.61	87.60	164.25	306.60	108-0906-001
	Yellow	J154-ND	.59	5.26	41.61	87.60	164.25	306.60	108-0907-001
	Brown	J357-ND	.66	5.83	46.17	97.20	182.25	340.20	108-0908-001
	Blue	J155-ND	.59	5.26	41.61	87.60	164.25	306.60	108-0910-001
	Violet	J358-ND	.66	5.83	46.17	97.20	182.25	340.20	108-0912-001
	Gray	J359-ND	.59	5.26	41.61	87.60	164.25	306.60	108-0913-001
Banana Plug – Uninsulated Panel Mount Threaded Stud: 4.23mm									
18	—	J148-ND	1.56	13.90	110.01	231.60	434.25	810.60	108-0750-001
Banana Plug – Uninsulated Panel Mount Screw Type: 4.23mm									
19	—	J149-ND	1.34	11.95	94.62	199.20	373.50	697.20	108-0753-001
Banana Plugs – Insulated Solderless Tapered Handle: 4.23mm									
20	White	J144-ND*	1.25	11.11	87.97	185.20	347.25	648.20	108-0301-001
	Red	J145-ND*	1.25	11.11	87.97	185.20	347.25	648.20	108-0302-001
	Black	J146-ND*	1.25	11.11	87.97	185.20	347.25	648.20	108-0303-001
	Green	J340-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0304-001
	Orange	J341-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0306-001
	Yellow	J342-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0307-001
	Brown	J343-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0308-001
	Blue	J344-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0310-001
	Violet	J345-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0312-001
	Gray	J346-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0313-001
Banana Plugs – Insulated Round Body Solder Stud: 4.23mm									
21	Red	J156-ND	2.51	22.32	176.70	372.00	697.50	1302.00	108-1722-101
	Black	J157-ND	2.51	22.32	176.70	372.00	697.50	1302.00	108-1723-101
Banana Plugs – Insulated Round Body Solderless: 4.23mm									
21	Red	J158-ND	1.91	16.97	134.33	282.80	530.25	989.80	108-1722-103
	Black	J159-ND	1.91	16.97	134.33	282.80	530.25	989.80	108-1723-103
Banana Plugs – Insulated Stacking Single Type: 4.23mm									
22	White	J459-ND	2.08	18.48	146.30	308.00	577.50	1078.00	108-1081-001
	Red	J460-ND	2.08	18.48	146.30	308.00	577.50	1078.00	108-1082-001
	Black	J461-ND	2.08	18.48	146.30	308.00	577.50	1078.00	108-1083-001

J100-KIT-ND ***Digi-Key® Plug & Jack Kit*** Contains 10 each of the plugs or jacks as denoted (*) on chart. Price includes compartment divided plastic box for easy storage and quick access.................... **$76.95**

Tyco Electronics AMP

Authorized Distributor

Micro Circular Metal Shell Connectors

Small, rugged circular connector

Applications: • Medical • Industrial • Military • Aerospace

Features: • High cycle life spring probe and pad contact interface • High density for limited space applications • Precision, screw machine contacts

Electrical: • Current Carrying Capacity: 1A • Operating Voltage: 200VAC maximum

Mechanical: • Environmental sealing: IP 67 - water immersion, 1M for 30 minutes • Wire size: 24-30 AWG • Maximum Operating Temperature: 392°F (200°C)

Fig. 1

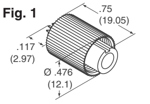

Fig. 2

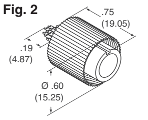

Fig. 3

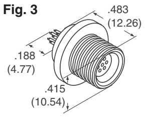

Fig. 4

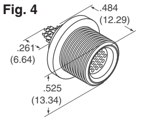

Fig. 5

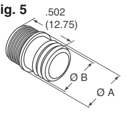

Fig.	No. of Pos.	Shell Size	Contact System	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	100	1,000	Tyco/AMP Part No.
Plug Assembly										
1	7	M11	Spring Probe	—	—	A30545-ND	40.59	29.11	24.75	1738548-1
	7	M11	Pin	—	—	A30547-ND◆	35.53	25.48	21.67	1738541-1
2	19	M14	Spring Probe	—	—	A30546-ND	58.34	41.84	35.58	1738552-1
	19	M14	Pin	—	—	A30548-ND◆	98.01	70.29	59.77	1738550-1
Rear Panel Mount Receptacle Assembly										
3	7	M11	Spring Probe	—	—	A30551-ND◆	26.63	19.10	16.24	1604750-1
	7	M11	Socket	—	—	A30543-ND	25.38	18.20	15.48	1738547-1
4	19	M14	Spring Probe	—	—	A30542-ND◆	40.59	29.11	24.75	1738553-1
	19	M14	Socket	—	—	A30544-ND	36.78	26.38	22.43	1738551-1
Overmold Adapter — RoHS Compliant										
5	—	M11	—	.326 (8.29)	.295 (7.5)	A30549-ND	11.07	7.94	6.75	1604366-4
	—	M14	—	.424 (10.76)	.385 (9.8)	A30550-ND	12.30	8.82	7.50	1604366-3
Accessories — RoHS Compliant										
Jam Nut, Shell Size M11, (sold separately)						A29974-ND	2.48	1.78	1.52	1604197-1
Rear Panel Seal, M11 (sold separately)						A29978-ND	.94	.68	.58	1445420-3
Jam Nut, M14, (sold separately)						A30554-ND	10.15	7.28	6.19	811277-3
Rear Panel Seal, M14						A30552-ND	1.15	.83	.70	1445420-5

◆ *RoHS Compliant*

Waterproof Circular Connectors - JB5 Series

Features: • Waterproof/Dustproof of protection class IP68 prevents penetration of water, oil and dust • Waterproof Receptacle itself • Push-pull mating structure enables easy one-handed insertion and removal • Metal outer parts and ground terminal installed in receptacle ensure shield effect. **Specifications:** • Rated Current: 3 position = 3A per contact; 4 ~ 8 position = 2A per contact • Rated Voltage: 200 VAC r.m.s. • Dielectric Withstanding Voltage: 750 VAC r.m.s per minute • Insulation Resistance: 1000 MΩ • Contact Resistance: 50mΩ maximum • Operating Temperature: -55°C ~ 85°C • Applicable Wire Size: 22 ~ 28 AWG • Waterproof: IP68 Protection Level

Dimensions in mm

Fig. 1

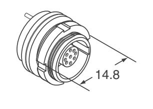

Fig. 2

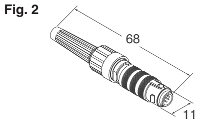

Fig. 3

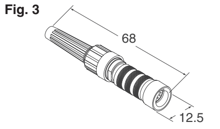

Fig.	No. of Positions	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
Jam Nut Receptacle - Dip						
1	3	670-1028-ND	21.18	15.89	14.83	JB5CS03AL00N
	4	670-1030-ND	21.18	15.89	14.83	JB5CS04AM00N
	5	670-1032-ND	22.22	16.67	15.56	JB5CS05AM00N
	6	670-1034-ND	23.02	17.27	16.12	JB5CS06AN00N
	8	670-1036-ND	26.12	19.59	18.29	JB5CS08AN00
Jam Nut Receptacle - Solder Cup						
1	3	670-1029-ND	21.18	15.89	14.83	JB5CS03FL00N
	4	670-1031-ND	21.18	15.89	14.83	JB5CS04FM00N
	5	670-1033-ND	22.22	16.67	15.56	JB5CS05FM00N
	6	670-1035-ND	23.02	17.27	16.12	JB5CS06FN00N
	8	670-1037-ND	26.12	19.59	18.29	JB5CS08FN00
	8	670-1045-ND	33.44	25.08	23.41	JB5CT08XN0010
Plug - Solder Cup						
2	3	670-1038-ND	34.06	25.55	23.85	JB5DS03ML11N
	4	670-1039-ND	34.06	25.55	23.85	JB5DS04MM11N
	5	670-1040-ND	35.00	26.25	24.50	JB5DS05MM11N
	6	670-1041-ND	37.24	27.93	26.07	JB5DS06MN11N
	8	670-1042-ND	38.52	30.19	29.15	JB5DS08MN11
	8	670-1046-ND	63.84	52.90	48.52	JB5DT08YN1210
Cable Receptacle						
3	4	670-1043-ND	34.45	27.00	26.07	JB5HS04FM11N
	8	670-1044-ND	45.77	35.88	34.64	JB5HS08FN11

Waterproof, Miniature Connectors
JN1 and JN2 Series

JN1 Series (4 Pos): Specifications: • Rated Current: 5A/pin (#20 size contact) • Rated Voltage: 200VAC • Withstanding Voltage: 2000VAC per minute • Insulation Resistance: Minimum 1000MΩ (DC500V energized) • Waterproof: IP67 • Operating Temperature: -20°C ~ 125°C
JN1 Series (10 Pos): Specifications: • Rated Current: 3A/pin (#22 size contact) • Rated Voltage: 200VAC • Withstanding Voltage: 900VAC per minute • Insulation Resistance: Minimum 1000MΩ (DC500V energized) • Waterproof: IP67 • Operating Temperature: -20°C ~ 125°C
JN2 Series (4 Pos): Specifications: • Rated Current: 5A/pin (#20 size contact) • Rated Voltage: 200VAC • Withstanding Voltage: 2000VAC per minute • Insulation Resistance: Minimum 1000MΩ (DC500V energized) • Waterproof: IP67 • Operating Temperature: -20°C ~ 125°C
JN2 Series (10 Pos): Specifications: • Rated Current: 3A/pin (#22 size contact) • Rated Voltage: 200VAC • Withstanding Voltage: 900VAC per minute • Insulation Resistance: Minimum 1000MΩ (DC 500V energized) • Waterproof: IP67 • Operating Temperature: -20°C ~ 125°C

Fig. 1

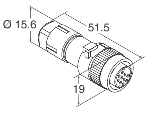

Fig. 2

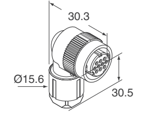

Fig. 3

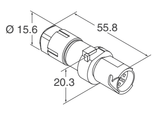

Fig. 4

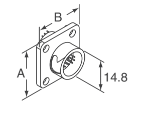

Fig.	No. of Positions	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
Plug, Female — Solder Type								
1	4	—	—	670-1057-ND	11.43	8.13	7.37	JN1DS04FK1
				670-1058-ND	16.70	11.88	10.76	JN1DS04FK2
				670-1059-ND	16.70	11.88	10.76	JN1DS04FK2X
	4	—	—	670-1072-ND	16.83	11.97	10.85	JN2DS04FK1-R
				670-1073-ND	16.83	11.97	10.85	JN2DS04FK2-R
				670-1074-ND	14.92	10.61	9.62	JN2DS04FK2X-R
2	4	—	—	670-1062-ND	11.43	8.13	7.37	JN1FS04FK1
				670-1063-ND	16.70	11.88	10.76	JN1FS04FK2
				670-1064-ND	16.70	11.88	10.76	JN1FS04FK2X
	4	—	—	670-1077-ND	16.83	11.97	10.85	JN2FS04FK2-R
Plug, Female — Crimp Type								
1	10	—	—	670-1060-ND	12.35	7.91	7.41	JN1DS10SL1
				670-1061-ND	12.35	7.91	7.41	JN1DS10SL2
	10	—	—	670-1075-ND	16.65	11.84	10.73	JN2DS10SL1-R
				670-1076-ND	16.65	11.84	10.73	JN2DS10SL2-R
2	10	—	—	670-1065-ND	12.35	7.91	7.41	JN1FS10SL1
				670-1066-ND	12.35	7.91	7.41	JN1FS10SL2
	10	—	—	670-1078-ND	16.65	11.84	10.73	JN2FS10SL1-R
				670-1079-ND	16.65	11.84	10.73	JN2FS10SL2-R
Relay Receptacle, Male — Crimp Type								
3	10	—	—	670-1067-ND	12.96	9.22	8.36	JN1HS10PL2
				670-1068-ND•	13.86	9.86	8.94	JN1KS10PL1
Panel Mount Receptacle, Male — Solder Type								
4	4	25.4	25.4	670-1053-ND	7.20	4.08	3.84	JN1AS04MK1
	4	25.4	25.4	670-1054-ND	8.85	6.02	5.31	JN1AS04MK2
	10	23.4	23.4	670-1055-ND	6.53	4.44	3.92	JN1AS10ML2
	4	25.4	25.4	670-1069-ND	12.78	9.09	8.24	JN2AS04MK2-R
	10	23.4	23.4	670-1070-ND	30.40	22.80	21.28	JN2AS10ML2-R
	10	20.0	39.0	670-1056-ND†	5.01	2.93	2.68	JN1AS10UL1
	10	20.0	39.0	670-1071-ND†	9.35	6.36	5.61	JN2AS10UL1-R

• Panel Mount † PCB Type

Contacts/Tools

Description	Wire Size	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
Connecting Pin, Gold Crimp	21 ~ 25 AWG	670-1047-1-ND†	.47	.25	.21	JN1-22-22P-10000
		670-1047-2-ND‡	1290.65/10,000			JN1-22-22P-10000
		670-1048-ND	.50	.25	.20	JN1-22-22P-PKG100
Connecting Socket, Gold Crimp	21 ~ 25 AWG	670-1049-1-ND†	.44	.24	.19	JN1-22-22S-10000
		670-1049-2-ND‡	1218.00/10,000			JN1-22-22S-10000
		670-1050-ND	.51	.26	.21	JN1-22-22S-PKG100
Connecting Socket, Gold Crimp	26 ~ 28 AWG	670-1051-1-ND†	.44	.24	.19	JN1-22-26S-10000
		670-1051-2-ND‡	1218.00/10,000			JN1-22-26S-10000
		670-1052-ND	.51	.26	.21	JN1-22-26S-PKG100
Crimp Tool 22 ~ 28 AWG	—	670-1183-ND	1125.42	—	—	CT150-2-JN1-B
Crimp Tool 20 ~ 25 AWG	—	670-1184-ND	957.55	—	—	CT150-2-JN1-D
Crimp Tool 21 ~ 25 AWG	—	670-1185-ND	860.17	—	—	CT150-2-JN1-E

† Cut Tape Pricing ‡ Tape and Reel

Miniature Circular Connectors
SRCN Series

Features: Product approved by UL standard: File No. E-67741(s) **Specifications:** • Current Rating: 5A maximum for #20 contact, 10A maximum for #16 contact • Operating Voltage: 250 VACr.m.s. maximum, 350 VDC maximum • Operating Temperature: -25°C ~ 85°C • Dielectric Withstanding Voltage: 1000 VACr.m.s per minute • Insulation Resistance: 1000MΩ minimum (with 500 VDC) Contact Resistance: 5mΩ maximum **Materials and Finishes:** Shell, Barrel, Endbell, Coupling Nut and Clamp: Aluminum Alloy, Nickel plated (satin) • Insulator: Synthetic resin, UL94V-0 (Green) • Contact: Copper Alloy, Silver Plated • Retaining Ring: Copper Alloy, Nickel Plated • Set Screw, Clamp Screw: Steel, Nickel Plated

Fig. 1

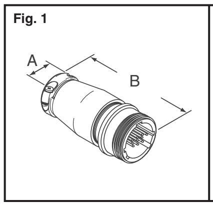

Fig. 2

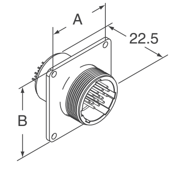

Fig. 3

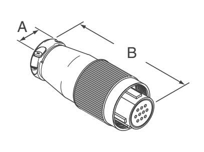

No. of Positions	Thread	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
Fig. 1 — Cable Connecting Receptacles with Male Pins								
3	M18 x 1	8.5	46	670-1110-ND	7.48	5.09	4.49	SRCN1A13-3P
5	M18 x 1	8.5	46	670-1112-ND	10.73	6.87	6.44	SRCN1A13-5P
7	M22 x 1	11.5	49	670-1116-ND	9.38	6.38	5.63	SRCN1A16-7P
10	M22 x 1	11.5	49	670-1114-ND	11.63	8.28	7.50	SRCN1A16-10P
10	M26 x 1	14	53	670-1118-ND	9.55	6.50	5.73	SRCN1A21-10P
16	M26 x 1	14	53	670-1120-ND	12.15	8.64	7.83	SRCN1A21-16P
16	M30 x 1	17	56	670-1122-ND	11.90	7.62	7.14	SRCN1A25-16P
24	M30 x 1	17	56	670-1124-ND	12.56	8.93	8.10	SRCN1A25-24P
Fig. 1 — Cable Connecting Receptacles with Female Sockets								
3	M18 x 1	8.5	46	670-1111-ND	8.20	5.58	4.92	SRCN1A13-3S
5	M18 x 1	8.5	46	670-1113-ND	11.03	7.06	6.62	SRCN1A13-5S
7	M22 x 1	11.5	49	670-1117-ND	10.15	6.50	6.09	SRCN1A16-7S
10	M22 x 1	11.5	49	670-1115-ND	12.56	8.93	8.10	SRCN1A16-10S
10	M26 x 1	14	53	670-1119-ND	12.05	7.72	7.23	SRCN1A21-10S
16	M26 x 1	14	53	670-1121-ND	12.56	8.93	8.10	SRCN1A21-16S
16	M30 x 1	17	56	670-1123-ND	12.48	7.99	7.49	SRCN1A25-16S
24	M30 x 1	17	56	670-1125-ND	13.75	9.78	8.86	SRCN1A25-24S
Fig. 2 — Box Mounting Receptacles with Male Pins								
3	M18 x 1	20	26	670-1126-ND	4.35	2.77	2.53	SRCN2A13-3P
5	M18 x 1	20	26	670-1128-ND	4.68	2.98	2.72	SRCN2A13-5P
7	M22 x 1	23	29	670-1132-ND	5.47	3.49	3.19	SRCN2A16-7P
10	M22 x 1	23	29	670-1130-ND	6.77	4.19	3.94	SRCN2A16-10P
10	M26 x 1	26	32	670-1134-ND	6.30	4.29	3.78	SRCN2A21-10P
16	M26 x 1	26	32	670-1136-ND	6.45	4.39	3.87	SRCN2A21-16P
24	M30 x 1	29	35	670-1139-ND	9.38	6.38	5.63	SRCN2A25-24P
Fig. 2 — Box Mounting Receptacles with Female Sockets								
3	M18 x 1	20	26	670-1127-ND	4.51	2.87	2.63	SRCN2A13-3S
5	M18 x 1	20	26	670-1129-ND	5.01	3.19	2.92	SRCN2A13-5S
7	M22 x 1	23	29	670-1133-ND	5.80	3.59	3.38	SRCN2A16-7S
10	M22 x 1	23	29	670-1131-ND	6.78	4.61	4.07	SRCN2A16-10S
10	M26 x 1	26	32	670-1135-ND	6.78	4.61	4.07	SRCN2A21-10S
16	M26 x 1	26	32	670-1137-ND	6.93	4.71	4.16	SRCN2A21-16S
16	M30 x 1	29	35	670-1138-ND	7.65	5.21	4.59	SRCN2A25-16S
24	M30 x 1	29	35	670-1140-ND	10.25	6.56	6.15	SRCN2A25-24S
Fig. 3 — Straight Plug with Male Pins								
3	M18 x 1	8.5	47	670-1141-ND	8.83	6.01	5.30	SRCN6A13-3P
5	M18 x 1	8.5	47	670-1143-ND	8.68	5.90	5.21	SRCN6A13-5P
7	M22 x 1	11.5	50	670-1147-ND	10.40	6.66	6.24	SRCN6A16-7P
7	M22 x 1	11.5	50	670-1148-ND	16.79	11.94	10.82	SRCN6A16-7P-J2
10	M22 x 1	11.5	50	670-1145-ND	11.03	7.06	6.62	SRCN6A16-10P
10	M26 x 1	14	54	670-1151-ND	12.05	7.72	7.23	SRCN6A21-10P
16	M26 x 1	14	54	670-1153-ND	11.63	8.28	7.50	SRCN6A21-16P
16	M30 x 1	17	57	670-1157-ND	11.90	8.47	7.68	SRCN6A25-16P
18	M26 x 1	14	54	670-1155-ND	12.96	9.22	8.36	SRCN6A21-18P
24	M30 x 1	17	57	670-1159-ND	13.75	9.78	8.86	SRCN6A25-24P
Fig. 3 — Straight Plug with Female Sockets								
3	M18 x 1	8.5	47	670-1142-ND	8.98	6.11	5.39	SRCN6A13-3S
5	M18 x 1	8.5	47	670-1144-ND	8.83	6.01	5.30	SRCN6A13-5S
7	M22 x 1	11.5	50	670-1149-ND	10.73	6.87	6.44	SRCN6A16-7S
7	M22 x 1	11.5	50	670-1150-ND	17.44	12.40	11.24	SRCN6A16-7S-J1
10	M22 x 1	11.5	50	670-1146-ND	11.33	7.25	6.80	SRCN6A16-10S
10	M26 x 1	14	54	670-1152-ND	12.48	7.99	7.49	SRCN6A21-10S
16	M26 x 1	14	54	670-1154-ND	11.90	8.47	7.68	SRCN6A21-16S
16	M30 x 1	17	57	670-1158-ND	12.56	8.93	8.10	SRCN6A25-16S
18	M26 x 1	14	54	670-1156-ND	13.10	9.32	8.44	SRCN6A21-18S
25	M30 x 1	17	57	670-1160-ND	14.81	10.53	9.55	SRCN6A25-24S

Tyco Electronics AMP

Authorized Distributor

Micro CPC

Electrical: • Current carrying capacity: 2-3A • Operating voltage: 250VAC minimum • Dielectric withstanding voltage: 1500VAC minimum **Mechanical:** • 5000 minimum mating cycles (Spring probe contact system) • 500 mating cycles (Screw machine pin and socket contacts) • Housing: Single piece design, nylon • Environmental sealing: Splash proof IP65 • Wire size: 24-30AWG **Materials:** • Spring probe pin: Brass, 10 µin (.25 µm) gold finish over nickel on mating end, tin-lead over nickel on solder cup/solder tail • Spring probe pad: Brass, 30 µin (.76 µm) gold finish over nickel on entire contact • Screw machine pin: Brass, 30 µin (.76 µm) gold finish over nickel on entire contact • Screw machine socket: Brass body, beryllium copper clip, 30 µin (.76 µm) gold finish over nickel, clip tin-lead over nickel body **Contact Type:** • X = Spring Probe Contacts • Y = Pin and Socket Contacts

Fig. 1 - Plug

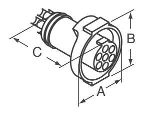

Solder Cup Shown

Fig. 2 - Panel Mount Receptacle

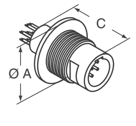

Solder Cup Shown

Fig. 3 - Free-Hanging Receptacle

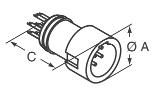

Solder Cup Shown

Fig.	No. of Pos.	Shell Size	Solder Type	Contact Type	Dimensions - mm A	B	C	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
1	7	M9.5	Cup	X	11.1	13.6	12.65	A29954-ND◆	8.36	7.76	6.78	1445322-1
			Cup	Y	11.1	13.6	12.65	A29964-ND	7.52	6.98	6.10	1445642-1
			Cup	Y	11.1	13.6	12.65	A97411-ND◆	5.97	5.53	4.84	2-1445642-0
	19	M13.5	Cup	X	15.6	18.6	12.65	A29955-ND◆	10.93	10.13	8.85	1445777-1
			Cup	Y	15.6	18.6	12.65	A29965-ND	11.23	10.42	9.10	1445782-1
2	7	M9.5	Cup	X	16	—	15.45	A29956-ND	15.97	14.81	12.94	1445718-1
			Cup	X	16	—	15.45	A33737-ND◆	15.97	14.81	12.94	2-1445718-0
			Tail	X	16	—	15.45	A34587-ND◆	16.87	15.64	13.67	2-1445719-1
			Cup	Y	16	—	15.45	A29966-ND◆	9.18	8.52	7.44	1445721-1
			Tail	Y	16	—	15.45	A29967-ND◆	8.55	7.93	6.93	1445720-1
	19	M13.5	Cup	X	20.75	—	15.45	A29960-ND	28.78	26.68	23.31	1445759-1
			Tail	X	20.75	—	15.45	A34590-ND◆	28.09	26.03	22.75	2-1445758-1
			Cup	Y	20.75	—	15.45	A29970-ND◆	14.23	13.19	11.53	1445779-1
			Tail	Y	20.75	—	15.45	A29971-ND◆	13.24	12.28	10.73	1445778-1
3	7	M9.5	Cup	X	9.5	—	12.25	A29958-ND	15.89	14.73	12.87	1445555-1
			Cup	X	9.5	—	12.25	A34586-ND◆	15.89	14.73	12.87	2-1445555-1
			Tail	X	9.5	—	12.25	A29959-ND	16.20	15.01	13.12	1445323-1

Fig.	No. of Pos.	Shell Size	Solder Type	Contact Type	Dimensions - mm A	B	C	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
3	7	M9.5	Cup	Y	9.5	—	12.25	A29968-ND◆	10.48	9.71	8.49	1445641-1
			Tail	Y	9.5	—	12.25	A29969-ND◆	8.36	7.76	6.78	1445691-1
	19	M13.5	Cup	X	13.5	—	12.25	A29962-ND	39.05	36.20	31.63	1445757-1
			Cup	X	13.5	—	12.25	A34589-ND◆	26.57	24.63	21.52	2-1445757-1
			Tail	X	13.5	—	12.25	A29963-ND	40.08	37.15	32.46	1445756-1
			Tail	X	13.5	—	12.25	A34588-ND◆	26.45	24.51	21.42	2-1445756-1
			Cup	Y	13.5	—	12.25	A29972-ND◆	12.20	11.31	9.88	1445773-1
			Tail	Y	13.5	—	12.25	A29973-ND◆	10.58	9.81	8.57	1445772-1
Accessories — RoHS Compliant												
Jam Nut, Shell Size M9.5								A29974-ND	2.48	2.30	2.01	1604197-1
Jam Nut, Shell Size M13.5								A29975-ND	1.85	1.71	1.50	1604196-1
Strain Relief, Shell Size M9.5								A29976-ND	3.16	2.93	2.56	1604111-1
Strain Relief, Shell Size M13.5								A29977-ND	3.32	3.08	2.69	1604204-1
Flange Seal, Shell Size M9.5								A29978-ND	.94	.88	.77	1445420-3
Flange Seal, Shell Size M13.5								A29979-ND	.94	.88	.77	1445420-1

◆ ***RoHS Compliant***

Miniature CPC

Dimensions in mm

Features: • Pre-positioned 1/4 turn coupling ring with positive lock and alignment features • Sealed to IP67 **Electrical:** • Current carrying capacity: 5A • Operating voltage: 600VAC minimum • Dielectric withstanding voltage: 2200VAC minimum **Mechanical:** • Wire termination - crimp **Materials:** • Housing: Thermoplastic, black

Note: Receptacles accept pin contacts and plugs accept socket contacts

RoHS COMPLIANT

Fig. 1 - Plug

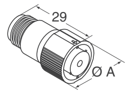

Fig. 2 - Panel Mount Receptacle

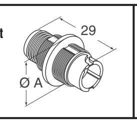

Fig. 3 - Free-Hanging Receptacle

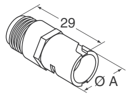

Fig.	No. of Pos.	Shell Size	Dim. A (mm)	Insulation Dia. Range (mm)	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
1	1	M8	12.55	.89 ~ 1.5	A29996-ND	3.67	3.41	2.98	1445536-1
	1	M8	12.55	1.5 ~ 2.39	A29997-ND	3.67	3.41	2.98	1445536-3
	2	M8	12.55	.89 ~ 1.5	A29998-ND	3.67	3.41	2.98	1445535-1
	2	M8	12.55	1.5 ~ 2.39	A29999-ND	3.67	3.41	2.98	1445535-3
	3	M8	12.55	.89 ~ 1.5	A30000-ND	3.67	3.41	2.98	1445534-1
	3	M8	12.55	1.5 ~ 2.39	A30001-ND	3.67	3.41	2.98	1445534-3
	4	M8	12.55	.89 ~ 1.5	A30002-ND	3.67	3.41	2.98	1445390-1
	4	M8	12.55	1.5 ~ 2.39	A30003-ND	3.67	3.41	2.98	1445390-3
	5	M11	18.8	.89 ~ 1.5	A30024-ND	3.83	3.56	3.11	1445820-1
	5	M11	18.8	1.5 ~ 2.39	A30025-ND	3.83	3.56	3.11	1445820-3
	6	M11	18.8	.89 ~ 1.5	A30026-ND	3.83	3.56	3.11	1445819-1
	6	M11	18.8	1.5 ~ 2.39	A30027-ND	3.83	3.56	3.11	1445819-3
	7	M11	18.8	.89 ~ 1.5	A30028-ND	3.83	3.56	3.11	1445818-1
	7	M11	18.8	1.5 ~ 2.39	A30029-ND	3.83	3.56	3.11	1445818-3
	8	M11	18.8	.89 ~ 1.5	A30030-ND	3.83	3.56	3.11	1445817-1
	8	M11	18.8	1.5 ~ 2.39	A30031-ND	3.83	3.56	3.11	1445817-3
	9	M11	18.8	.89 ~ 1.5	A30032-ND	3.83	3.56	3.11	1445807-1
	9	M11	18.8	1.5 ~ 2.39	A30033-ND	3.83	3.56	3.11	1445807-3
2	1	M8	21	.89 ~ 1.5	A29980-ND	5.35	4.96	4.34	1445539-1
	1	M8	21	1.5 ~ 2.39	A29981-ND	5.35	4.96	4.34	1445539-3
	2	M8	21	.89 ~ 1.5	A29982-ND	5.35	4.96	4.34	1445538-1
	2	M8	21	1.5 ~ 2.39	A29983-ND	5.35	4.96	4.34	1445538-3
	3	M8	21	.89 ~ 1.5	A29984-ND	5.35	4.96	4.34	1445537-1
	3	M8	21	1.5 ~ 2.39	A29985-ND	5.35	4.96	4.34	1445537-3
	4	M8	21	.89 ~ 1.5	A29986-ND	5.35	4.96	4.34	1445421-1
	4	M8	21	1.5 ~ 2.39	A29987-ND	5.35	4.96	4.34	1445421-3
	5	M11	24	.89 ~ 1.5	A30004-ND	5.74	5.32	4.65	1445824-1
	5	M11	24	1.5 ~ 2.39	A30005-ND	5.74	5.32	4.65	1445824-3
	6	M11	24	.89 ~ 1.5	A30006-ND	5.74	5.32	4.65	1445823-1
	6	M11	24	1.5 ~ 2.39	A30007-ND	5.74	5.32	4.65	1445823-3
	7	M11	24	.89 ~ 1.5	A30008-ND	5.74	5.32	4.65	1445822-1

Fig.	No. of Pos.	Shell Size	Dim. A (mm)	Insulation Dia. Range (mm)	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
2	7	M11	24	1.5 ~ 2.39	A30009-ND	5.74	5.32	4.65	1445822-3
	8	M11	24	.89 ~ 1.5	A30010-ND	5.74	5.32	4.65	1445821-1
	8	M11	24	1.5 ~ 2.39	A30011-ND	5.74	5.32	4.65	1445821-3
	9	M11	24	.89 ~ 1.5	A30012-ND	5.74	5.32	4.65	1445816-1
	9	M11	24	1.5 ~ 2.39	A30013-ND	5.90	5.48	4.79	1445816-3
3	1	M8	14	.89 ~ 1.5	A29988-ND	3.96	3.67	3.21	1445526-1
	1	M8	14	1.5 ~ 2.39	A29989-ND	3.96	3.67	3.21	1445526-3
	2	M8	13.75	.89 ~ 1.5	A29990-ND	3.96	3.67	3.21	1445522-1
	2	M8	13.75	1.5 ~ 2.39	A29991-ND	3.96	3.67	3.21	1445522-3
	3	M8	13.75	.89 ~ 1.5	A29992-ND	3.96	3.67	3.21	1445510-1
	3	M8	13.75	1.5 ~ 2.39	A29993-ND	3.96	3.67	3.21	1445510-3
	4	M8	14	.89 ~ 1.5	A29994-ND	3.96	3.67	3.21	1445389-1
	4	M8	14	1.5 ~ 2.39	A29995-ND	3.96	3.67	3.21	1445389-3
	5	M11	20.5	.89 ~ 1.5	A30014-ND	4.18	3.88	3.39	1445829-1
	5	M11	20.5	1.5 ~ 2.39	A30015-ND	4.18	3.88	3.39	1445829-3
	6	M11	20.5	.89 ~ 1.5	A30016-ND	4.18	3.88	3.39	1445828-1
	6	M11	20.5	1.5 ~ 2.39	A30017-ND	4.18	3.88	3.39	1445828-3
	7	M11	20.5	.89 ~ 1.5	A30018-ND	4.18	3.88	3.39	1445827-1
	7	M11	20.5	1.5 ~ 2.39	A30019-ND	4.18	3.88	3.39	1445827-3
	8	M11	20.5	.89 ~ 1.5	A30020-ND	4.18	3.88	3.39	1445826-1
	8	M11	20.5	1.5 ~ 2.39	A30021-ND	4.18	3.88	3.39	1445826-3
	9	M11	20.5	.89 ~ 1.5	A30022-ND	4.18	3.88	3.39	1445825-1
	9	M11	20.5	1.5 ~ 2.39	A30023-ND	4.18	3.88	3.39	1445825-3
Accessories									
Jam Nut, Shell Size M8					A29975-ND	1.85	1.71	1.50	1604196-1
Jam Nut, Shell Size M11					A30038-ND	1.27	1.18	1.03	1445904-1
Strain Relief, Straight, Shell Size M8					A30034-ND	2.52	2.34	2.05	1445730-1
Strain Relief, Right Angle, Shell Size M8					A30035-ND	2.83	2.63	2.30	1445771-1
Strain Relief, Straight, Shell Size M11					A30037-ND	2.48	2.30	2.01	1445856-1
Strain Relief, Right Angle, Shell Size M11					A34531-ND	5.29	4.91	4.29	1546746-4
Insertion Tip (Seal Protector)					A32498-ND	1.19	1.11	.97	1604816-1

Miniature CPC Contacts

Dimensions in Inches (mm)

Specifications: • Material: Brass • Stock thickness: .008" (.20mm) **Contact Plating: A:** Brass pre-tin plated **B:** Duplex finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000100" (.00254mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Pin Contact

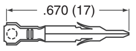

Socket Contact

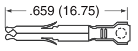

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	1,000	Digi-Key Part No.	Strip Tape and Reel Qty.	Pricing	AMP Part No.
Pin Contacts — Diameter .039" (0.99mm)													
30-26	.035 ~ .050 (.889 ~ 1.27)	A	A25667-ND◆	.31	10.58	794059-1	A25667CT-ND◆	—	64.40	A25667TR-ND◆	10,000	34.78/M	770835-1
		B	A25671-ND	.59	38.05	794059-3	—	—	—	—	—	—	—
		B	A33738-ND◆	.55	35.60	1-794059-0	A33738CT-ND◆	—	332.80	A33738TR-ND◆	10,000	179.72/M	1-770835-0
		A	A25675-ND◆	.30	10.26	770985-1	A25675CT-ND◆	—	64.40	A25675TR-ND◆	7,000	38.64/M	770901-1
26-22	.047 ~ .069 (1.2 ~ 1.75)	B	A32013-ND◆	.55	35.60	1-770985-0	A32013CT-ND◆	183.04	332.80	A32013TR-ND◆	7,000	199.68/M	1-770901-0
			A97676-ND◆	1.01	34.22	170363-3	—	—	—	—	—	—	—
			—	—	—	—	A97675CT-ND◆	175.93	319.88	A97675TR-ND◆	6,000	185.53/M	170359-3
			A97685-ND◆	.12	4.21	170359-1	—	—	—	—	—	—	—
22-18	.059 ~ .095 (1.5 ~ 2.4)	B	A97677-ND◆	1.01	34.22	170364-3	—	—	—	—	—	—	—
		A	—	—	—	—	A97686CT-ND◆	34.03	61.88	A97686TR-ND◆	4,000	35.89/M	170360-1
22-18 or (2)22	.060 ~ .094 or .133 max. (1.50 ~ 2.40 or 3.38)	A	A25683-ND◆	.31	10.58	770987-1	A25683CT-ND◆	35.42	64.40	A25683TR-ND◆	4,500	38.64/M	770903-1
		B	A32015-ND◆	.55	35.60	1-770987-0	A32015CT-ND◆	173.84	316.08	A32015TR-ND◆	4,500	189.65/M	1-770903-0

◆ ***RoHS Compliant***

(Continued)

Miniature CPC Contacts *(Cont.)*

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	1,000	Digi-Key Part No.	Strip Tape and Reel Qty.	Pricing	AMP Part No.
Socket Contacts													
30-26	.035 ~ .050 (.889 ~ 1.27)	A	A25668-ND◆	.19	6.42	794058-1	A25668CT-ND◆	—	64.40	A25668TR-ND◆	10,000	34.78/M	770834-1
		B	A25672-ND	.36	23.06	794058-3	A25672CT-ND	—	373.45	A25672TR-ND	10,000	224.07/M	770834-3
		B	A33739-ND◆	.55	35.60	1-794058-0	—	—	—	—	—	—	—
26-22	.047 ~ .069 (1.2 ~ 1.75)	A	A25676-ND◆	.31	10.58	770986-1	A25676CT-ND◆	—	64.40	A25676TR-ND◆	7,000	38.64/M	770902-1
		B	A32014-ND◆	.55	35.60	1-770986-0	A32014CT-ND◆	190.56	346.48	A32014TR-ND◆	7,000	207.89/M	1-770902-0
		B	A97678-ND◆	1.01	34.22	170365-1	—	—	—	—	—	—	—
		B	—	—	—	—	A97687CT-ND◆	30.55	55.55	A97687TR-ND◆	6,000	32.22/M	170361-1
		B	—	—	—	—	A97688CT-ND◆	175.93	319.88	A97688TR-ND◆	6,000	185.53/M	170361-3
22-18	.059 ~ .095 or .134 max.	B	A97690-ND◆	1.01	34.22	170366-3	—	—	—	—	—	—	—
			—	—	—	—	A97689CT-ND◆	175.93	319.88	A97689TR-ND◆	4,000	185.53/M	170362-3
22-18 or (2)22	.060 ~ .094 or .133 max. (1.50 ~ 2.40 or 3.33)	A	A25684-ND◆	.19	6.42	770988-1	A25684CT-ND◆	35.42	64.40	A25684TR-ND◆	4,500	38.64/M	770904-1
		B	A32016-ND◆	.55	35.60	1-770988-0	A32016CT-ND◆	173.84	316.08	A32016TR-ND◆	4,500	189.65/M	1-770904-0

◆ ***RoHS Compliant***

Tools

Description	Digi-Key Part No.	Price Each	AMP Part No.	Description	Digi-Key Part No.	Price Each	AMP Part No.
Keying Plugs and Tools for Miniature CPC Contacts							
Contact Extraction Tool	A25695-ND	19.28	189727-1	PRO-CRIMPER III Hand Tool, with Die, 16-20 or 20(2)AWG	A25586-ND	218.16	90760-1
Contact Insertion Tool	A1444-ND	17.06	455830-1	Die Set, 26-22AWG use with A9996-ND	A30039-ND	111.00	90758-2
PRO-CRIMPER III Hand Tool, with Die Set, 26-22AWG	A25584-ND	145.50	90758-1	Die Set, 22-18AWG use with A9996-ND	A30040-ND	111.00	90759-2
PRO-CRIMPER III Hand Tool, with Die Set, 22-18AWG	A25585-ND	145.50	90759-1	PRO-CRIMPER II/III Repair Kit	A34584-ND	51.00	679221-1

NEW! CPC – Medical Connectors

Features: • Connectors are user friendly, sterilizable, robust and provide secure self-latching • Can be overmolded with silicone or PVC flex reliefs for cable strain and flex protection • Available with an integral cable collet or an overmolded flex relief • Self-latching mechanism is secure under axial and torsional loads **Electrical:** • Operating Voltage: 300VAC • Current Rating: 5 position 7A, 6 position 6A, 7 position 5A, 10 position 3A • Dielectric Withstanding Voltage: 1200VAC • Insulation Resistance: 1000MΩ • Contact Resistance: 20mΩ maximum **Mechanical:** • Durability: 2500 cycles • Temperature Rating: -50°C ~ 170°C • Mating Force: 2.5lbs maximum • Unmating Force: 1.0lb minimum **Materials:** • Housing, Insert, Collet and Nut: Polyphenylsulfone • Contacts: Copper Alloy, Gold Finish • Hex Nut: Copper Alloy, Nickel Finish **Standards and Specifications:** • EIA-364: Electrical Connector/Socket Test procedure including Environmental Classification

Fig. 1

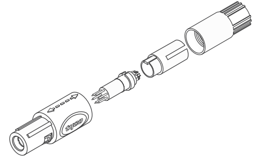

Fig. 2

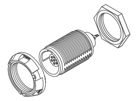

No. of Positions	Nut/ Housing Color	Keying	Cable Range	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
Fig. 1 — Cable Collet - Straight Plug Assembly								
5	Black	0°	ø5.3 ~ ø6.5	A97736-ND	13.61	12.62	11.03	1877845-1
			ø4.0 ~ ø5.2	A97737-ND	13.61	12.62	11.03	1877845-2
			ø2.7 ~ ø3.9	A97738-ND	13.61	12.62	11.03	1877845-3
		80°	ø5.3 ~ ø6.5	A97739-ND	13.61	12.62	11.03	1877845-4
			ø4.0 ~ ø5.2	A97740-ND	13.61	12.62	11.03	1877845-5
			ø2.7 ~ ø3.9	A97741-ND	13.61	12.62	11.03	1877845-6
	Gray	0°	ø5.3 ~ ø6.5	A97742-ND	13.61	12.62	11.03	1877845-7
			ø4.0 ~ ø5.2	A97743-ND	13.61	12.62	11.03	1877845-8
			ø2.7 ~ ø3.9	A97744-ND	13.61	12.62	11.03	1877845-9
		80°	ø5.3 ~ ø6.5	A97745-ND	13.61	12.62	11.03	1-1877845-0
			ø4.0 ~ ø5.2	A97746-ND	13.61	12.62	11.03	1-1877845-1
			ø2.7 ~ ø3.9	A97747-ND	13.61	12.62	11.03	1-1877845-2
6	Black	0°	ø5.3 ~ ø6.5	A97748-ND	14.51	13.46	11.76	1877846-1
			ø4.0 ~ ø5.2	A97749-ND	14.51	13.46	11.76	1877846-2
			ø2.7 ~ ø3.9	A97750-ND	14.51	13.46	11.76	1877846-3
		80°	ø5.3 ~ ø6.5	A97751-ND	14.51	13.46	11.76	1877846-4
			ø4.0 ~ ø5.2	A97752-ND	14.51	13.46	11.76	1877846-5
			ø2.7 ~ ø3.9	A97753-ND	14.51	13.46	11.76	1877846-6
	Gray	0°	ø5.3 ~ ø6.5	A97754-ND	14.51	13.46	11.76	1877846-7
			ø4.0 ~ ø5.2	A97755-ND	14.51	13.46	11.76	1877846-8
			ø2.7 ~ ø3.9	A97756-ND	14.51	13.46	11.76	1877846-9
		80°	ø5.3 ~ ø6.5	A97757-ND	14.51	13.46	11.76	1-1877846-0
			ø4.0 ~ ø5.2	A97758-ND	14.51	13.46	11.76	1-1877846-1
			ø2.7 ~ ø3.9	A97759-ND	14.51	13.46	11.76	1-1877846-2
7	Black	0°	ø5.3 ~ ø6.5	A97760-ND	15.83	14.67	12.82	1877847-1
			ø4.0 ~ ø5.2	A97761-ND	15.83	14.67	12.82	1877847-2
			ø2.7 ~ ø3.9	A97762-ND	15.83	14.67	12.82	1877847-3
		80°	ø5.3 ~ ø6.5	A97763-ND	15.83	14.67	12.82	1877847-4
			ø4.0 ~ ø5.2	A97764-ND	15.83	14.67	12.82	1877847-5
			ø2.7 ~ ø3.9	A97765-ND	15.83	14.67	12.82	1877847-6
	Gray	0°	ø5.3 ~ ø6.5	A97766-ND	15.83	14.67	12.82	1877847-7
			ø4.0 ~ ø5.2	A97767-ND	15.83	14.67	12.82	1877847-8
			ø2.7 ~ ø3.9	A97768-ND	15.83	14.67	12.82	1877847-9
		80°	ø5.3 ~ ø6.5	A97769-ND	15.83	14.67	12.82	1-1877847-0
			ø4.0 ~ ø5.2	A97770-ND	15.83	14.67	12.82	1-1877847-1
			ø2.7 ~ ø3.9	A97771-ND	15.83	14.67	12.82	1-1877847-2
10	Black	0°	ø5.3 ~ ø6.5	A97772-ND	18.61	17.26	15.08	1877848-1
			ø4.0 ~ ø5.2	A97773-ND	18.61	17.26	15.08	1877848-2
			ø2.7 ~ ø3.9	A97774-ND	18.61	17.26	15.08	1877848-3
		80°	ø5.3 ~ ø6.5	A97775-ND	18.61	17.26	15.08	1877848-4
			ø4.0 ~ ø5.2	A97776-ND	18.61	17.26	15.08	1877848-5
			ø2.7 ~ ø3.9	A97777-ND	18.61	17.26	15.08	1877848-6
	Gray	0°	ø5.3 ~ ø6.5	A97778-ND	18.61	17.26	15.08	1877848-7
			ø4.0 ~ ø5.2	A97779-ND	18.61	17.26	15.08	1877848-8
			ø2.7 ~ ø3.9	A97780-ND	18.61	17.26	15.08	1877848-9
		80°	ø5.3 ~ ø6.5	A97781-ND	18.61	17.26	15.08	1-1877848-0
			ø4.0 ~ ø5.2	A97782-ND	18.61	17.26	15.08	1-1877848-1
			ø2.7 ~ ø3.9	A97783-ND	18.61	17.26	15.08	1-1877848-2

No. of Positions	Keying	Nut/Housing Color	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
Fig. 1 — Overmold Cable Nut - Straight Plug Assembly							
5	0°	Black	A97784-ND	13.69	12.70	11.09	1877849-1
	80°	Black	A97785-ND	13.69	12.70	11.09	1877849-2
	0°	Gray	A97786-ND	13.69	12.70	11.09	1877849-3
	80°	Gray	A97787-ND	13.69	12.70	11.09	1877849-4
6	0°	Black	A97788-ND	14.60	13.53	11.82	1877850-1
	80°	Black	A97789-ND	14.60	13.53	11.82	1877850-2
	0°	Gray	A97790-ND	14.60	13.53	11.82	1877850-3
	80°	Gray	A97791-ND	14.60	13.53	11.82	1877850-4
7	0°	Black	A97792-ND	15.91	14.75	12.89	1877851-1
	80°	Black	A97793-ND	15.91	14.75	12.89	1877851-2
	0°	Gray	A97794-ND	15.91	14.75	12.89	1877851-3
	80°	Gray	A97795-ND	15.91	14.75	12.89	1877851-4
10	0°	Black	A97796-ND	18.70	17.33	15.14	1877852-1
	80°	Black	A97797-ND	18.70	17.33	15.14	1877852-2
	0°	Gray	A97798-ND	18.70	17.33	15.14	1877852-3
	80°	Gray	A97801-ND	18.70	17.33	15.14	1877852-4

No. of Positions	Keying	Nut/ Housing Color	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
Fig. 2 — Receptacle Assembly - Panel Mount							
5	0°	Gray	A97720-ND	21.81	20.22	17.67	1877066-1
		Black	A97721-ND	21.81	20.22	17.67	1877066-2
	80°	Gray	A97722-ND	21.81	20.22	17.67	1877066-3
		Black	A97723-ND	21.81	20.22	17.67	1877066-4
6	0°	Gray	A97724-ND	24.35	22.58	19.73	1877067-1
		Black	A97725-ND	24.35	22.58	19.73	1877067-2
	80°	Gray	A97726-ND	24.35	22.58	19.73	1877067-3
		Black	A97727-ND	24.35	22.58	19.73	1877067-4
7	0°	Gray	A97728-ND	26.98	25.01	21.85	1877068-1
		Black	A97729-ND	26.98	25.01	21.85	1877068-2
	80°	Gray	A97730-ND	26.98	25.01	21.85	1877068-3
		Black	A97731-ND	26.98	25.01	21.85	1877068-4
10	0°	Gray	A97732-ND	40.02	37.09	32.41	1877069-1
		Black	A97733-ND	40.02	37.09	32.41	1877069-2
	80°	Gray	A97734-ND	40.02	37.09	32.41	1877069-3
		Black	A97735-ND	40.02	37.09	32.41	1877069-4

Color	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
Nut Adjustment Front					
Red	A97802-ND	.41	.38	.34	1811448-1
White	A97803-ND	.41	.38	.34	1811448-2
Yellow	A97804-ND	.41	.38	.34	1811448-3
Green	A97805-ND	.41	.38	.34	1811448-4
Blue	A97806-ND	.41	.38	.34	1811448-5
Collet Back-Nut					
Red	A97807-ND	.55	.52	.45	1877841-1
White	A97808-ND	.55	.52	.45	1877841-2
Yellow	A97809-ND	.55	.52	.45	1877841-3
Green	A97810-ND	.55	.52	.45	1877841-4
Blue	A97811-ND	.55	.52	.45	1877841-5

Circular Plastic Connectors

Component Diameter	
Arrangement/ Shell Size	**Overall Diameter Inch (mm)**
11	.942 (23.93)
13	1.070 (27.18)
17	1.315 (33.40)
23	1.743 (44.2)

• Lightweight, all-plastic connectors • CPC connectors made of UL recognized, high-grade black thermoplastic material • 94V-1 rated, heat-stabilized, fire-resistant, self-extinguishing • Six connector series for different connection needs:

Series 1 – Standard density applications with Multimate contacts.
Series 2 – High-density applications with size 20 DM and 20 DF contacts, .040" (1.02 mm) diameter
Series 3 – Power Contacts
Series 4 – Combination Size 16 and Power Contacts
Series 5 – Power Contacts .125 POWERBAND
Series 6 – Combination Size 16 and .125 POWERBAND Contacts

• Available in panel-mount, chassis-mount and free hanging versions • Quick-connect/disconnect capability with thread assist, positive detent coupling • Built-in pin and socket protection. Plug or socket half can be “hot”, depending on connector sex • 5-key polarization for proper mating of connector halves • Full complement of optional accessories

Note: Contacts (pins and sockets) must be ordered separately, unless otherwise noted.

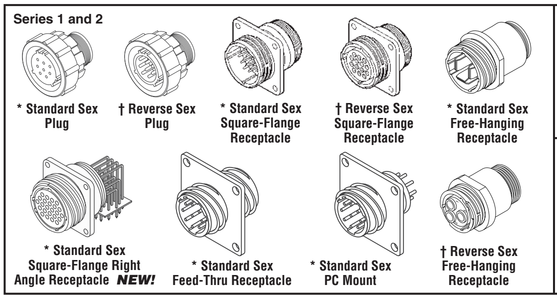
Series 1 and 2
* Standard Sex Plug
† Reverse Sex Plug
* Standard Sex Square-Flange Receptacle
† Reverse Sex Square-Flange Receptacle
* Standard Sex Free-Hanging Receptacle
* Standard Sex Square-Flange Right Angle Receptacle NEW!
* Standard Sex Feed-Thru Receptacle
* Standard Sex PC Mount
† Reverse Sex Free-Hanging Receptacle

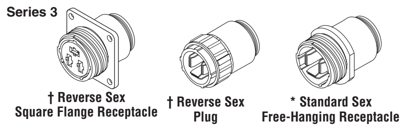
Series 3
† Reverse Sex Square Flange Receptacle
† Reverse Sex Plug
* Standard Sex Free-Hanging Receptacle

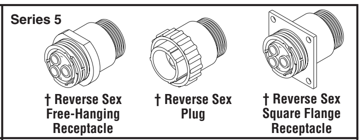
Series 5
† Reverse Sex Free-Hanging Receptacle
† Reverse Sex Plug
† Reverse Sex Square Flange Receptacle

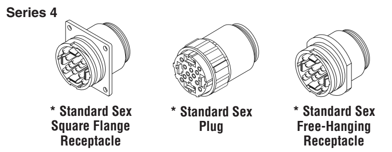
Series 4
* Standard Sex Square Flange Receptacle
* Standard Sex Plug
* Standard Sex Free-Hanging Receptacle

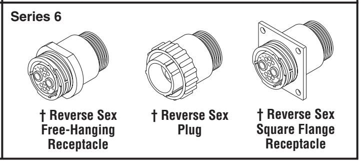
Series 6
† Reverse Sex Free-Hanging Receptacle
† Reverse Sex Plug
† Reverse Sex Square Flange Receptacle

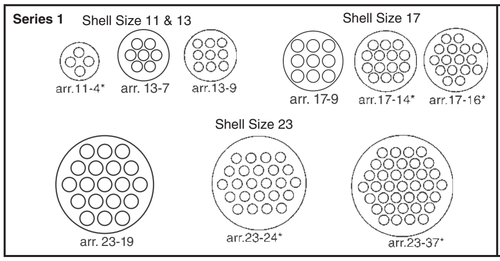

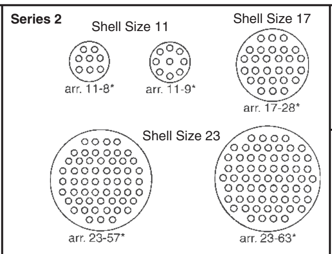

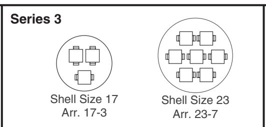

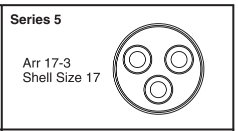

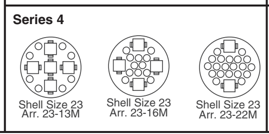

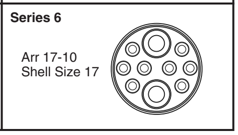

* **Standard Sex:** Pin contacts in receptacle housings; socket contacts in plug housings † **Reverse Sex:** Socket contacts in receptacle housings; pin contacts in plug housings.

Series 1 (Shell Only)

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
11	4	Rev.	Receptacle-Square Flanged	A1360-ND	2.34	2.17	206430-1
			Receptacle-Free Hanging	A1361-ND	2.34	2.17	206430-2
			Receptacle-Square Flanged with Inserts	A25053-ND	5.29	4.91	211102-1
			Plug	A1357-ND	2.83	2.63	206429-1
		Std.	Receptacle-Square Flanged	A1301-ND	2.28	2.11	206061-1
			Receptacle-Free Hanging	A1351-ND	2.48	2.30	206153-1
			Plug	A1300-ND	2.81	2.61	206060-1
13	9	Std.	Receptacle-Square Flanged	A1303-ND	2.44	2.27	206705-1
			Receptacle-Free Hanging	A1352-ND	2.48	2.30	206705-2
			Plug	A1302-ND	3.08	2.85	206708-1
17	14	Rev.	Receptacle-Square Flanged	A1362-ND	2.58	2.40	206043-1
			Receptacle-Free Hanging	A1363-ND	3.20	2.97	206043-3
			Plug	A1358-ND	3.16	2.93	206044-1
	16	Std.	Receptacle-Square Flanged	A1305-ND	2.58	2.40	206036-1
			Receptacle-Free Hanging	A1353-ND	2.58	2.40	206036-3
			Receptacle-Feed-Thru	A25058-ND	48.65	45.09	206552-1
			Plug-Reverse Numbering	A25057-ND	5.54	5.13	206554-1
			Plug	A1304-ND	3.16	2.93	206037-1
23	24	Std.	Receptacle-Square Flanged	A1354-ND	3.16	2.93	206838-1
			Receptacle-Free Hanging	A1355-ND	4.33	4.01	206838-2
			Plug	A1350-ND	4.12	3.82	206837-1
	37	Rev.	Receptacle-Square Flanged	A1364-ND	2.95	2.74	206306-1
			Receptacle-Free Hanging	A1365-ND	4.10	3.80	206306-2
			Plug	A1359-ND	3.79	3.52	206305-1
		Std.	Receptacle-Square Flanged	A1307-ND	2.95	2.74	206151-1
			Receptacle-Free Hanging	A1356-ND	3.18	2.95	206151-2
			Plug	A1306-ND	3.79	3.52	206150-1

Series 1 (Shell & Contacts) - PC Mount with .025” (.64mm) Sq. Sol. Tails

Contact Finish: Duplex plated gold flash on entire contact with 30μ” minimum gold on contact engagement area, tin-lead on the termination area, all over 50μ” minimum nickel under plating.

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
11	4	Rev.	Square Flange Receptacle	A25054-ND	9.82	9.11	208283-1
				A33740-ND◆	9.53	8.84	208283-4
13	9	Std.	Square Flange Receptacle	A25055-ND	8.10	7.51	208223-1
				A33741-ND◆	7.89	7.32	208223-9
17	16	Std.	Square Flange Receptacle	A25056-ND	14.08	13.06	207303-3
				A33742-ND◆	13.67	12.68	1-207303-3

◆ *RoHS Compliant*

NEW! Series 1 (Shell & Contacts) - PC Mount with .045” (1.14mm) Square Solder Tails For Higher Current Applications

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
13	7	Std.	Square Flange Right Angle Receptacle	A98555-ND	20.73	19.21	1776903-1
17	16			A98556-ND	26.14	24.23	1776904-1
23	24			A98557-ND	34.54	32.02	1776905-1
23	37			A98558-ND	48.18	44.65	1776906-1

Series 1 (Shell Only) - VDE Tested Connectors

Designed to meet requirements of VDE as shown in DIN Specification 57627. Recognized under the Component Program of UL for 600VAC & 600VDC service, File No. E28476. Certified by CSA, File No. LR7189.

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
13	7	Std.	Receptacle-Square Flanged	A1635-ND	4.14	3.84	211401-1
			Plug	A1638-ND	3.83	3.56	211399-1
		Rev.	Receptacle-Square Flanged	A1641-ND	3.69	3.42	211398-1
			Plug	A1644-ND	4.31	3.99	211400-1
17	9	Std.	Receptacle-Square Flanged	A1636-ND	3.87	3.60	211767-1
			Plug	A1639-ND	5.02	4.66	211766-1
		Rev.	Receptacle-Square Flanged	A1642-ND	4.22	3.92	211769-1
			Plug	A1645-ND	4.47	4.15	211768-1
23	19	Std.	Receptacle-Square Flanged	A1637-ND	4.98	4.62	211771-1
			Plug	A1640-ND	6.05	5.61	211770-2
		Rev.	Receptacle-Square Flanged	A1643-ND	4.22	3.92	211773-1
			Plug	A1646-ND	5.06	4.70	211772-1

Series 1 (Shell Only) - Sealed Receptacle Connectors

Sealed CPC connectors are designed to meet the requirements of UL, CSA, and VDE for environmentally sealed connectors used in industrial applications.

Operating Temperature Range: -50°C ~ 125°C **Voltage Rating:** 600V (AC or DC) **Contacts:** 13 amps., single contact rating at 30°C T-Rise **Flammability Rating:** UL 94V-0 rated **Sealing Capability:** Per IP66 and IP67 **Housing Material:** Black, high strength, impact resistant thermoplastic **Seal:** Gray Elastomer **Fluid Resistance:** Diesel fuel, gear and engine fuel, gasoline, anti-freeze, hydraulic fluid, water

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
11	4	Rev.	Square Flange	A1675-ND	2.83	2.63	206430-3
			Free-Hanging	A1676-ND	5.51	5.12	206430-4
		Std.	Square Flange	A25038-ND	7.56	7.02	206061-2
13	9	Std.	Square Flange	A1669-ND	3.73	3.46	206705-3
			Free-Hanging	A1670-ND	3.83	3.56	206705-4
17	14	Rev.	Square Flange	A1677-ND	3.36	3.12	206043-4
			Free-Hanging	A1678-ND	6.25	5.80	206043-5
	16	Std.	Square Flange	A1671-ND	4.55	4.22	206036-4
			Free-Hanging	A1672-ND	4.02	3.73	206036-5
23	24	Std.	Square Flange	A1673-ND	4.63	4.30	206838-3
			Free-Hanging	A1674-ND	5.31	4.93	206838-4
	37	Std.	Square Flange	A25049-ND	4.98	4.62	206151-3

(Continued)

Series 2 (Shell Only)

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	8	Std.	Receptacle-Square Flanged	A1366-ND	4.24	3.94	205841-1
			Receptacle-Free Hanging	A1367-ND	4.22	3.92	205841-2
			Plug	A1368-ND	5.10	4.74	205838-1
			Receptacle-Feed-Thru	A25048-ND	39.85	36.94	206458-1
		Rev.	Receptacle-Square Flanged	A1369-ND	4.28	3.98	206433-1
			Receptacle-Free Hanging	A1370-ND	4.28	3.98	206433-2
			Plug	A1371-ND	5.10	4.74	206434-1
	9	Std.	Receptacle-Square Flanged	A1372-ND	4.14	3.84	206486-1
			Receptacle-Free Hanging	A1373-ND	4.28	3.98	206486-2
			Plug	A1374-ND	5.02	4.66	206485-1
17	28	Std.	Receptacle-Square Flanged	A1375-ND	4.57	4.24	205840-3
			Plug-Reverse Numbering	A25045-ND	9.70	8.99	206126-1
			Receptacle-Free Hanging	A1376-ND	5.41	5.02	206152-1
			Receptacle-Feed-Thru	A25046-ND	53.16	49.27	206127-1
			Plug - Dia. 1.349 (34.26) max.	A1377-ND	5.41	5.02	205839-3
			Plug - Dia. 1.315 (33.40) max.	A25044-ND	9.70	8.99	206125-1
		Rev.	Receptacle-Square Flanged	A1378-ND	4.45	4.13	206038-1
			Receptacle-Free Hanging	A1379-ND	5.45	5.06	206038-2
			Plug	A1380-ND	5.31	4.93	206039-1
23	57	Rev.	Receptacle-Square Flanged	A1381-ND	7.07	6.56	206438-1
			Receptacle-Free Hanging	A1382-ND	11.36	10.53	206438-2
			Plug	A1383-ND	7.28	6.75	206437-1
	63	Std.	Receptacle-Square Flanged	A1384-ND	6.81	6.31	205843-1
			Receptacle-Free Hanging	A1385-ND	7.20	6.67	205843-2
			Plug	A1386-ND	7.22	6.69	205842-1

Series 2 (Shell & Contacts) - PC Mount with .025" (.64mm) Sq. Sol. Tails

Shell Size	No. of Contacts	Sex	Contact Finish	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	8	Rev.	A	Receptacle-Square Flanged	A25040-ND	9.72	9.01	208657-1
	8	Rev.			A33743-ND◆	9.45	8.76	1-208657-1
	9	Std.			A25041-ND	9.96	9.24	206852-2
17	28	Rev.	B	Receptacle-Square Flanged	A25042-ND	16.95	15.72	207216-2
					A33744-ND◆	16.50	15.30	1-207216-6
23	63	Std.	A	Receptacle-Square Flanged	A25043-ND	33.52	31.07	206455-2
					A33745-ND◆	32.60	30.21	1-206455-2

A - Duplex plated gold flash on entire contact with 30µ" min. gold on contact engagement area, tin-lead on the termination area, all over 50µ" minimum nickel under plating. **B** - Plated gold flash on the entire contact, tin-lead on the termination area.
◆ RoHS Compliant

Series 3 and 4 (Shell Only)

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
			Series 3				
17	3	Std.	Receptacle-Square Flanged	A1681-ND	3.16	2.93	206036-2
			Receptacle-Free Hanging	A1683-ND	3.16	2.93	206207-1
			Plug	A1685-ND	4.16	3.86	206037-2
		Rev.	Receptacle-Square Flanged	A16015-ND	3.16	2.93	206425-1
			Receptacle-Free Hanging	A16017-ND	4.28	3.98	206425-2
			Plug	A16019-ND	5.66	5.25	206426-1
23	7	Std.	Receptacle-Square Flanged	A1682-ND	4.84	4.49	206137-1
			Receptacle-Free Hanging	A1684-ND	4.94	4.58	206137-2
			Plug	A1686-ND	4.47	4.15	206136-1
		Rev.	Receptacle-Square Flanged	A16016-ND	4.12	3.82	206227-1
			Receptacle-Free Hanging	A16018-ND	4.12	3.82	206227-2
			Plug	A16020-ND	4.55	4.22	206226-1
			Series 4				
23	13	Std.	Receptacle-Square Flanged	A16029-ND	5.76	5.34	211825-1
			Receptacle-Free Hanging	A16032-ND	5.31	4.93	211825-2
			Plug	A16035-ND	7.50	6.96	211824-1
	16	Std.	Receptacle-Square Flanged	A16030-ND	3.92	3.63	207486-1
			Receptacle-Free Hanging	A16033-ND	5.41	5.02	207486-2
			Plug	A16036-ND	4.41	4.09	207485-1
	22	Std.	Receptacle-Square Flanged	A16031-ND	3.65	3.39	206613-1
			Receptacle-Free Hanging	A16034-ND	4.96	4.60	206613-3
			Plug	A16037-ND	5.27	4.89	206612-1

Series 5 and 6 Sealed

Sealed CPC connectors are the latest additions to the growing family of Circular Plastic Connectors. Sealed CPC connectors were developed as part of the Series 5 and 6 product line. Sealed CPC connectors are designed to meet the requirements of UL, CSA, and VDE. Sealed CPC connectors incorporated the latest technology in thermoplastic design and use the POWERBAND precision formed high current contact.

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
			Series 5				
17	3	Rev.	Square Flange, Receptacles	A25781-ND	5.27	4.89	213889-2
			Free-Hanging, Receptacles	A25782-ND	5.51	5.12	213890-2
			Plug Assembly	A25783-ND	6.83	6.33	213905-1
			Series 6				
17	10	Rev.	Square Flange, Receptacles	A25785-ND	4.59	4.26	213893-2
			Free-Hanging, Receptacles	A25786-ND	6.33	5.88	213894-2
			Plug Assembly	A25787-ND	8.28	7.68	213906-1

Accessories

Fig. 1

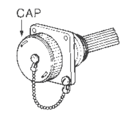

Fig. 2

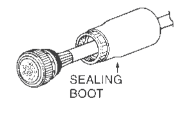

Fig. 3

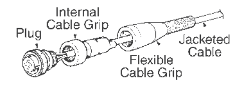

Fig. 4

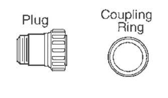

Fig. 5

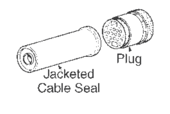

Fig. 6

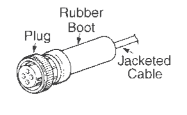

Fig. 7

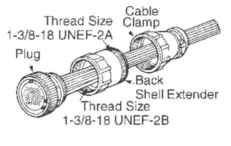

Fig. 8

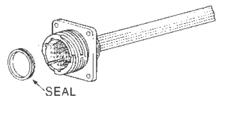

Fig. 9

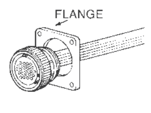

Fig.	Description	Shell Size	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Sealing Cap for Receptacles, Plastic Strap	11	A16038-ND	3.73	3.46	206903-1
		13	A16039-ND	3.38	3.14	211870-1
		17	A16040-ND	4.14	3.84	207445-1
		23	A16041-ND	4.65	4.32	207446-1
	Sealing Cap for Receptacles, Metal Bead Chain	11	A16042-ND	6.25	5.80	208800-1
		13	A16043-ND	7.48	6.94	213485-1
		17	A16044-ND	6.03	5.59	208652-1
		23	A16045-ND	7.24	6.71	208680-1
		23	A20537-ND†	9.31	8.63	208680-2
2	Heat Shrinkable Sealing Boot, .260" ~ .600"	11	A16046-ND	9.49	8.80	54010-1
	Heat Shrinkable Sealing Boot, .300" ~ .725"	13	A16047-ND	9.94	9.22	54123-1
	Heat Shrinkable Sealing Boot, .400" ~ .875"	17	A16048-ND	9.76	9.05	54011-1
	Heat Shrinkable Sealing Boot, .250" ~ .500"	17	A16060-ND‡	5.64	5.23	213933-1
	Heat Shrinkable Sealing Boot, .500" ~ 1.25"	23	A16049-ND	10.95	10.15	54012-1
3	Flexible Cable Boot, Black Thermoplastic	11	A16050-ND	2.81	2.61	207489-1
		17	A16052-ND	4.55	4.22	207241-1
	Internal Cable Grip, Black Thermoplastic	11	A16051-ND	3.03	2.82	207490-1
	Internal Cable Grip, Black Thermoplastic 8.25mm	17	A16053-ND	3.90	3.61	207387-1
	Internal Cable Grip, Black Thermoplastic 9.78mm	17	A16054-ND	3.77	3.50	207387-2
4	Replacement Coupling Ring	11	A16055-ND	1.07	1.00	213811-1
		13	A16056-ND	1.52	1.41	213813-1
		17	A16057-ND	1.20	1.12	213810-1
		23	A16058-ND	1.93	1.79	213812-1
5	Jacketed Cable Seal, Cable Diameter 7.62mm	23	A16063-ND	14.94	13.86	207052-1
	Jacketed Cable Seal, Cable Diameter 11.43mm	23	A16064-ND	24.44	22.65	207052-2
	Jacketed Cable Seal, Cable Diameter 15.24mm	23	A16065-ND	15.87	14.71	207052-3
6	Rubber Boots	11	A16059-ND§	7.42	6.88	206304-1
7	Back Shell Extender	23	A16062-ND	4.55	4.22	207055-1
8	Peripheral Seals for Receptacles Only	11	A1335-ND	.67	.62	206403-1
		13	A1336-ND	.98	.92	206403-4
		17	A1337-ND	.76	.70	206403-2
		23	A1338-ND	1.37	1.28	206403-3
9	Panel Mount Flanges for Plugs Only	11	A25003-ND	5.35	4.96	207299-1
		13	A25004-ND	4.53	4.20	207299-2
		17	A25019-ND	4.72	4.37	207299-3
		23	A25020-ND	3.03	2.82	207299-4
—	Flange Gasket	11	A30707-ND	1.30	1.21	81665-3
		13	A30705-ND	1.30	1.21	81665-4
		17	A25784-ND	1.32	1.23	81665-2
		23	A30706-ND	1.40	1.30	81665-5
—	Keying Plug, Series 1 and 4		A16066-ND	.22	.21	200821-1
	Keying Plug, Series 2		A16067-ND	.42	.40	206509-1
	Keying Plug, Series 3 and 4 (Socket Cavities)		A16068-ND	.78	.73	206508-1
	Keying Plug, Series 3 and 4 (Pin Cavities)		A16069-ND	2.36	2.19	207597-1

§ Rubber boots are used with jacketed cable to provide splashproof connections for Series 1 and 3 connectors (black neoprene). † For use with series 2 only ‡ Thin Wall Boot

(Continued)

Wire Entry Seal Kits

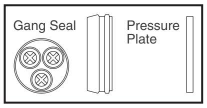

Includes one Gang Seal and one pressure plate marked for cavity identification.

Material and Finish:

Seal - Elastomer, red iron oxide. Pressure Plate - Nylon, black

Shell Size	Insulation Diameter Inch (mm)	Seal Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
			Kit for Pins				
13-9	.075 ~ .125 (1.91 ~ 3.18)	.681 (17.30)	A25059-ND	5.27	4.89	4.27	213926-1
17-3	.178 ~ .265 (4.52 ~ 6.73)	.790 (20.07)	A25060-ND	6.72	6.24	5.45	213899-1
17-10	.150 ~ .265 (3.81 ~ 6.73)	.790 (20.07)	A25788-ND	4.94	4.58	4.01	213900-1
17-14	.075 ~ .125 (1.91 ~ 3.18)	.790 (20.07)	A25061-ND	5.37	4.98	4.35	213919-2
17-16	.075 ~ .125 (1.91 ~ 3.18)	.790 (20.07)	A25062-ND	5.37	4.98	4.35	213920-2
			Kit for Sockets				
13-9	.075 ~ .125 (1.91 ~ 3.18)	.681 (17.30)	A25063-ND	5.27	4.89	4.27	213925-1
17-3	.178 ~ .265 (4.52 ~ 6.73)	.790 (20.07)	A25060-ND	6.72	6.24	5.45	213899-1
17-10	.150 ~ .265 (3.81 ~ 6.73)	.790 (20.07)	A25788-ND	4.94	4.58	4.01	213900-1
17-14	.075 ~ .125 (1.91 ~ 3.18)	.790 (20.07)	A25064-ND	7.69	7.13	6.23	213919-1
17-16	.075 ~ .125 (1.91 ~ 3.18)	.790 (20.07)	A25065-ND	11.48	10.64	9.30	213920-1

Cable Clamps – Plastic Shell

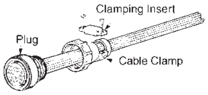

Cable clamps are used to prevent excessive strain on cable or wire from being transmitted to the contacts inside the connector housings.

These may be used on all receptacles and plugs. Two screws included.

Shell Size	Cable Outer Diameter Inch (mm)	Screw Length Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	.329 (8.36)	.375 (9.53)	A1330-ND	3.94	3.65	206062-1
	.329 (8.36)	.375 (9.53)	A32514-ND◆	3.85	3.58	1-206062-6
	.329 (8.36)	.500 (12.7)	A25021-ND	3.94	3.65	206062-3
	.329 (8.36)	.500 (12.7)	A32515-ND◆	3.85	3.58	1-206062-4
	.453 (11.51)	.500 (12.7)	A1687-ND	3.94	3.65	206358-1
	.453 (11.51)	.500 (12.7)	A32518-ND◆	3.85	3.58	206358-5
13	.453 (11.51)	.500 (12.7)	A1331-ND	3.96	3.67	206966-1
	.453 (11.51)	.500 (12.7)	A32519-ND◆	3.87	3.60	206966-7
	.703 (17.86)	.625 (15.88)	A1688-ND	4.22	3.92	207008-1
	.703 (17.86)	.625 (15.88)	A33751-ND◆	4.06	3.77	207008-5
17	.453 (11.51)	.500 (12.7)	A1332-ND	3.96	3.67	206070-1
	.453 (11.51)	.500 (12.7)	A32516-ND◆	3.87	3.60	206070-8
	.703 (17.86)	.625 (15.88)	A1689-ND	4.53	4.20	206322-1
23	.703 (17.86)	.625 (15.88)	A1334-ND	4.14	3.84	206138-1
	.703 (17.86)	.625 (15.88)	A32517-ND◆	4.00	3.71	206138-8
	1.125 (28.58)	.625 (15.88)	A1690-ND	5.23	4.85	206512-1
	1.125 (28.58)	.625 (15.88)	A32502-ND◆	5.06	4.70	206512-5
	1.125 (28.58)	1.00 (25.4)	A16061-ND†	6.56	6.08	207774-1
	1.125 (28.58)	1.00 (25.4)	A33752-ND◆†	6.38	5.91	207774-3

◆ ***RoHS Compliant*** † Self-Centering

Right Angle Cable Clamps

Cable clamps are used to prevent excessive strain on cable or wire from being transmitted to the contacts inside the connector housings.

These may be used on all receptacles and plugs. Two screws included.

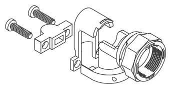

Right Angle Cable Clamp With Cover

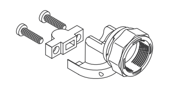

Right Angle Cable Clamp Without Cover

Shell Size	Cable Outer Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
		Cable Clamp with Cover			
11	.329 (8.36)	A31208-ND	6.81	6.31	1546347-1
11	.329 (8.36)	A32501-ND◆	6.62	6.14	1546347-2
13	.453 (11.51)	A31209-ND	6.95	6.45	1546348-1
13	.453 (11.51)	A33753-ND◆	6.79	6.29	1546348-2
17	.453 (11.51)	A31210-ND	6.95	6.45	1546349-1
17	.453 (11.51)	A33754-ND◆	6.79	6.29	1546349-2
23	.703 (17.86)	A31211-ND	7.34	6.81	1546350-1
23	.703 (17.86)	A33755-ND◆	7.18	6.65	1546350-2
		Cable Clamp without Cover			
11	.329 (8.36)	A31212-ND	6.01	5.57	796379-1
11	.329 (8.36)	A33756-ND◆	5.86	5.44	796379-2
13	.453 (11.51)	A31213-ND	6.07	5.63	796380-1
13	.453 (11.51)	A33757-ND◆	5.90	5.48	796380-2
17	.453 (11.51)	A31214-ND	6.07	5.63	796381-1
17	.453 (11.51)	A33758-ND◆	5.90	5.48	796381-2
23	.703 (17.86)	A31215-ND	6.54	6.07	796382-1
23	.703 (17.86)	A33759-ND◆	6.36	5.89	796382-2

◆ ***RoHS Compliant***

Flexible Tubing Connectors

To be used with all circular plastic connectors

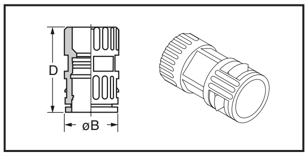

• **Characteristics:** One-piece plastic quick screw connection with UNEF-inner thread • **Material:** High-quality, impact resistant plastic material (PA); Sealing: Santoprene® • **Properties:** Easy to assemble due to one-piece screw connection with push-in lock. Simple disconnect by displacing the snap-in sleeve. Smallest outer dimensions to be used under confined conditions • **Temperature Range:** Approximately -30°C ~100°C • **Color:** Black

CPC Shell Size	Trade Size Tubing Outer Diameter	Inner Thread UNEF	Dimensions (mm) Largest Outer øB	Total Length D	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	0.51” (13.0mm)	5/8” ~ 24	20.6	36.6	A16102-ND	4.31	3.99	1-969807-2
13	0.62” (15.8mm)	3/4” ~ 20	23.6	41.7	A16103-ND	4.35	4.03	1-969809-3
17	0.83” (21.2mm)	15/16” ~ 20	30.1	50.3	A16104-ND	5.51	5.12	1-969811-4
23	1.12” (28.5mm)	1” ~ 20	37.0	54.0	A16105-ND	7.63	7.07	2-969813-5

NOTE: Must also be used with Flexible Corrugated Tubing (Mfg. numbers 969789-2, 969789-3, 969789-4 and 969789-5)

Flexible Corrugated Tubing and Connectors

Fig. 1 - All-plastic Tubing

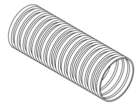

Fig. 2 - Straight Tubing Connections

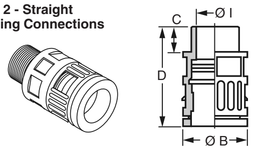

Fig. 3 - Right Angle Tubing Connections

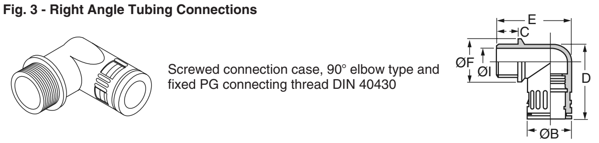

Screwed connection case, 90° elbow type and fixed PG connecting thread DIN 40430

PLASTIC TUBING: • **Properties:** Air- and liquid-tight, oil resistant up to 80°C, benzine resistant, highly resistant to acids and solvents, ozone resistant, free of silicon, cadmium and halogen, self-extinguishing and flame retarding • **Temperature Range:** Approximately -40°C ~ 115°C, temporarily withstands temperatures up to approximately 150°C • **Color:** Black • UL File No. E86359, GGVS certified

CONNECTIONS: One-piece plastic quick screw connection with PG-thread accessory to DIN 40430 for corrugated tubings • **Material:** High-quality, impact resistant plastic material (PA); Sealing: Santoprene® • **Properties:** Easy to assemble due to one-piece screw connection with push-in lock. Simple disconnect by displacing the snap-in sleeve. Smallest outer dimensions to be used under confined conditions • **Temperature Range:** Approximately -30°C ~ 100°C • **Color:** Black • GGVS certified

Trade Size Tubing Outer Diameter Inch (mm)	Bending Radius (mm)±10%	Digi-Key Part No.	Note: X in Part No. = Meters Per Roll Price Per Roll 5 meter	10 meter	25 meter	50 meter	AMP Part No.
		Fig. 1 — All-Plastic Tubing					
0.51 (13.0)	20	A16090-X-ND	18.45	33.83	76.88	123.00	969789-2
0.62 (15.8)	35	A16091-X-ND	24.15	44.28	100.63	161.00	969789-3
0.83 (21.2)	45	A16092-X-ND	38.25	70.13	159.38	255.00	969789-4
1.12 (28.5)	55	A16093-X-ND	62.70	114.95	261.25	418.00	969789-5

Trade Size Tubing Outer Diameter Inch (mm)	Thread DIN 40430 PG	Dimensions - mm Smallest Inner øI	Largest Inner øB	Thread Length C	Total Length D	Total Height E	Connection øF	Digi-Key Part No.	Price Each 1	25	AMP Part No.
				Fig. 2 — Panel Mount Straight Tubing Connections							
0.51 (13.0)	9	10.0	20.0	10	35.0	—	—	A16094-ND	3.55	3.29	969803-2
0.62 (15.8)	11	12.5	23.0	10	37.0	—	—	A16095-ND	3.55	3.29	969803-3
0.83 (21.2)	16	17.0	29.5	12	43.5	—	—	A16096-ND	3.71	3.44	969803-4
1.12 (28.5)	21	23.5	37.0	12	46.0	—	—	A16097-ND	6.62	6.14	969803-5
				Fig. 3 — Panel Mount Right Angle Tubing Connections							
0.51 (13.0)	9	12.0	20.0	10	36.0	34.0	20.0	A16098-ND	6.44	5.97	969817-2
0.62 (15.8)	11	15.5	23.0	10	42.0	37.5	23.0	A16099-ND	6.68	6.20	969817-3
0.83 (21.2)	16	18.0	29.5	12	50.0	47.0	27.0	A16100-ND	7.05	6.54	969817-4
1.12 (28.5)	21	24.0	37.0	12	57.0	55.0	34.0	A16101-ND	11.99	11.12	969817-5

NOTE: Must order counternuts and seals separately.

Thread DIN 40430 PG	Dimensions - mm Thickness	Hex Width	Height	Outer Diameter	Inner Diameter	Digi-Key Part No.	Price Each 1	25	AMP Part No.
						Counternuts			
9	5.0	22	—	—	—	A16106-ND	.36	.34	796260-2
11	5.0	24	—	—	—	A16107-ND	.47	.44	796260-3
16	6.0	30	—	—	—	A16108-ND	.53	.50	796260-5
21	7.0	36	—	—	—	A16109-ND	.84	.78	796260-6
						Flat O-Ring Seal			
9	—	—	1.6	19	15	A16110-ND	.84	.78	796257-2
16	—	—	1.8	27	21.5	A16112-ND	.98	.92	796255-3

Contacts (Pins and Sockets)

CONTACT FINISH:
A Selective gold with 30µ gold on electrical engagement area over 50µ nickel on entire contact
B Duplex-plated 30µ gold in mating area over 50µ nickel on contact body; bright tin-lead on solder tab
C 15µ gold in the mating area over 50µ nickel
D Selective gold, 30µ gold over 30µ nickel
E .000100" (0.00254mm) silver-plated contacts with lubricant added
F Bright tin-lead on entire contact
G Selective gold with 30µ gold on electrical engagement area with 10µ on the remainder over 50µ nickel
H Bright tin on entire contact
J Duplex-plated 30µ gold in mating area over 50µ nickel on contact body; bright tin on solder tab

Series 1 Signal, Type III+, Precision Formed

Pin Diameter: .062" (1.57mm) **Test Current:** 13A **Materials:** Crimp Contacts: Brass; Solder Contacts and Grounding Pin: Copper alloy, plated tin or gold; Spring: Stainless steel

Fig. 1 – Crimp

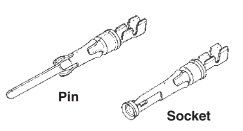

Fig. 2 – Solder Type

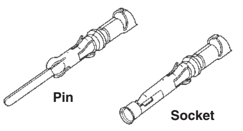

Fig. 3 – Solder Tab

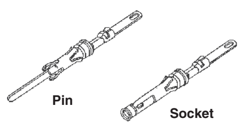

Fig. 4 – Wire Wrap

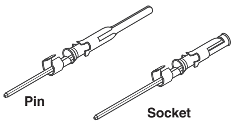

Tail Length Inches (mm)	Amp Pin Part No.	Amp Socket Part No.
.622 (15.80)	6-66460-5	5-66461-4
.831 (21.11)	6-66460-7	5-66461-8
1.020 (25.91)	6-66460-6	5-66461-9
.622 (15.80)	6-66460-2	5-66461-5
.831 (21.11)	6-66460-3	6-66461-2
1.020 (25.91)	6-66460-4	6-66461-3

Series 2

Pin Diameter: .040" (1.02mm) **Test Current:** 7.5A **Materials:** Pin Body: Brass; Socket: Phosphor bronze

Fig. 5 – Crimp With Insulation Support

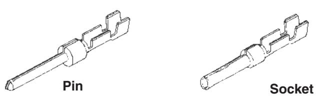

Fig. 6 – Solder Cup

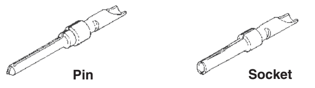

Series 3

Fig. 7 – Power Contacts

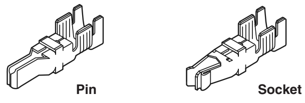

Description	Wire Size AWG	Insulation Diameter Inch	Contact Finish	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	Digi-Key Part No.	Strip Tape and Reel Qty.	Strip Tape and Reel Pricing	AMP Part No.	AMP Tooling Part No.
Fig. 1, Series 1															
Pin	30 ~ 26	.040 ~ .060	F	—	—	—	—	A25084CT-ND	64.64	296.26	—	—	—	66425-6	91515-1
Pin			H	—	—	—	—	A31999CT-ND◆	51.92	237.96	A31999TR-ND◆	4,000	259.59/M	1-66425-2	91515-1
Socket			F	—	—	—	—	A25085CT-ND	71.51	327.77	A25085TR-ND	4,000	357.57/M	66424-6	91515-1
Socket			F	—	—	—	—	A33760CT-ND◆	68.98	316.15	A33760TR-ND◆	4,000	344.90/M	1-66424-1	91515-1
Pin			C	A25088-ND◆	13.92	97.24	66429-3	A25088CT-ND◆	67.06	307.37	A25088TR-ND◆	4,000	335.31/M	66425-7	91515-1
Socket			C	A25089-ND◆	19.39	135.45	66428-3	A25089CT-ND◆	83.33	381.95	A25089TR-ND◆	4,000	416.67/M	66424-7	91515-1
Pin			A	A25092-ND◆	14.65	102.35	66429-4	A25092CT-ND◆	70.60	323.58	A25092TR-ND◆	4,000	353.00/M	66425-8	91515-1
Socket			A	A25093-ND◆	23.02	160.77	66428-4	A25093CT-ND◆	87.72	402.06	A25093TR-ND◆	4,000	438.62/M	66424-8	91515-1
Pin	30 ~ 26	.014 ~ .030	A	A25097-ND◆	13.42	93.71	66406-4	A25097CT-ND◆	70.53	323.28	A25097TR-ND◆	4,000	352.67/M	66393-8	—
Socket				A25098-ND◆	16.57	115.76	66405-4	A25098CT-ND◆	87.66	401.76	A25098TR-ND◆	4,000	438.29/M	66394-8	—
Pin	26 ~ 24	.035 ~ .055	F	—	—	—	—	A1324CT-ND	38.52	176.55	—	—	—	66106-6	58495-1
Pin			H	A31991-ND◆	4.45	31.09	1-66107-1	A31991CT-ND◆	37.15	170.28	A31991TR-ND◆	4,000	185.76/M	1-66106-5	58495-1
Socket			H	A31992-ND◆	8.18	57.12	1-66109-7	A31992CT-ND◆	58.66	268.85	A31992TR-ND◆	4,000	293.30/M	1-66108-5	58495-1
Pin			C	A25103-ND◆	8.27	57.78	66107-3	A25103CT-ND◆	58.07	266.16	A25103TR-ND◆	4,000	290.36/M	66106-7	58495-1
Socket			C	A25104-ND◆	9.89	69.07	66109-3	A25104CT-ND◆	72.16	330.74	A25104TR-ND◆	4,000	360.81/M	66108-7	58495-1
Pin			A	A1344-ND◆	8.71	60.81	66107-4	A1344CT-ND◆	61.13	280.17	A1344TR-ND◆	4,000	305.64/M	66106-8	58495-1
Socket			A	A1345-ND◆	10.41	72.71	66109-4	A1345CT-ND◆	75.97	348.21	A1345TR-ND◆	4,000	379.86/M	66108-8	58495-1
Pin	24 ~ 20	.040 ~ .080	G	A29109-ND◆	13.33	93.11	66103-1	A29109CT-ND◆	101.43	464.90	A29109TR-ND◆	4,000	507.17/M	66102-6	58495-1
Pin	24 ~ 20	.040 ~ .080	H	A31989-ND◆	4.41	30.79	1-66103-8	A31989CT-ND◆	37.97	174.02	A31989TR-ND◆	4,000	189.84/M	2-66102-5	58495-1
Socket			H	A31990-ND◆	5.22	36.47	1-66105-9	A31990CT-ND◆	46.22	211.82	A31990TR-ND◆	4,000	231.08/M	3-66104-0	58495-1
Pin			C	A25107-ND◆	8.28	57.83	66103-3	A25107CT-ND◆	55.21	253.03	A25107TR-ND◆	4,000	276.03/M	66102-8	58495-1
Socket			C	A25108-ND◆	9.90	69.12	66105-3	A25108CT-ND◆	66.78	306.09	A25108TR-ND◆	4,000	333.92/M	66104-8	58495-1
Pin			A	A1342-ND◆	9.13	63.79	66103-4	A1342CT-ND◆	59.95	274.77	A1342TR-ND◆	4,000	299.75/M	66102-9	58495-1
Socket			A	A1343-ND◆	10.92	76.28	66105-4	A1343CT-ND◆	72.02	330.11	A1343TR-ND◆	4,000	360.12/M	66104-9	58495-1
Pin	24 ~ 20	.060 ~ .120	H	A32008-ND◆	7.93	55.38	66566-7	A32008CT-ND◆	46.32	212.30	A32008TR-ND◆	4,000	231.60/M	1-66564-2	91542-1
Socket			F	A25007-ND	7.30	50.98	66565-2	—	—	—	—	—	—	—	91542-1
Socket			H	—	—	—	—	A32007CT-ND◆	58.67	268.88	A32007TR-ND◆	4,000	293.33/M	1-66563-1	91542-1
Pin			A	A25115-ND◆	8.97	62.62	66566-4	A25115CT-ND◆	64.94	297.63	A25115TR-ND◆	4,000	324.69/M	66564-8	91542-1
Socket			D	A25008-ND	10.16	70.99	66565-4	A25008CT-ND	79.97	366.55	A25008TR-ND	4,000	399.87/M	66563-8	91542-1
Pin	24 ~ 20	.080 ~ .100	H	A31996-ND◆	4.48	31.29	1-66400-0	A31996CT-ND◆	44.04	201.84	A31996TR-ND◆	4,000	220.19/M	1-66332-4	91523-1
Socket			H	A31995-ND◆	5.22	36.47	1-66399-0	A31995CT-ND◆	47.51	217.77	A31995TR-ND◆	4,000	237.57/M	1-66331-4	91523-1
Pin	24 ~ 20	.080 ~ .100	G	A29110-ND	13.34	93.19	66400-2	—	—	—	—	—	—	—	91523-1
Pin	24 ~ 20	.080 ~ .100	C	A25121-ND◆	8.29	57.89	66400-3	A25121CT-ND◆	58.24	266.92	A25121TR-ND◆	4,000	291.18/M	66332-7	91523-1
Socket			C	A25122-ND◆	9.90	69.12	66399-3	A25122CT-ND◆	72.22	331.02	A25122TR-ND◆	4,000	361.11/M	66331-7	91523-1
Pin			A	A1648-ND◆	8.44	58.97	66400-4	A1648CT-ND◆	64.34	294.91	A1648TR-ND◆	4,000	321.72/M	66332-8	91523-1
Socket			A	A1661-ND◆	7.86	54.91	66399-4	A1661CT-ND◆	79.76	365.59	A1661TR-ND◆	4,000	398.82/M	66331-8	91523-1
Pin	18 ~ 16	.080 ~ .100	H	A31987-ND◆	4.41	30.79	1-66099-5	A31987CT-ND◆	37.97	174.02	A31987TR-ND◆	4,000	189.84/M	1-66098-8	58495-1
Socket			H	A31988-ND◆	5.22	36.47	1-66101-9	A31988CT-ND◆	40.53	185.75	A31988TR-ND◆	4,000	202.64/M	1-66100-9	58495-1
Pin			C	A25123-ND◆	11.24	78.48	66099-3	A25123CT-ND◆	61.13	280.20	A25123TR-ND◆	4,000	305.67/M	66098-8	58495-1
Socket			C	A25124-ND◆	9.91	69.18	66101-3	A25124CT-ND◆	75.81	347.45	A25124TR-ND◆	4,000	379.04/M	66100-8	58495-1
Pin			A	A1340-ND◆	9.15	63.94	66099-4	A1340CT-ND◆	64.55	295.87	A1340TR-ND◆	4,000	322.77/M	66098-9	58495-1
Socket			A	A16080-ND◆	10.94	76.42	66101-4	A16080CT-ND◆	71.45	327.48	A16080TR-ND◆	4,000	357.26/M	66100-9	58495-1
Pin	18 ~ 14	.080 ~ .100	H	A31998-ND◆	5.88	41.08	1-66361-2	A31998CT-ND◆	37.97	174.02	A31998TR-ND◆	4,000	189.84/M	1-66359-4	91519-1

◆ ***RoHS Compliant*** # Recommended for high current/vibration applications where corrosion is a problem. § Ground contacts † 1 Wirewrap ‡ 2 Wirewrap ★ 3 Wirewrap *(Continued)*

Contacts (Pins and Sockets) *(Cont.)*

Descrip-tion	Wire Size AWG	Insulation Diameter Inch	Contact Finish	Digi-Key Part No.	Loose Piece Pricing		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		Digi-Key Part No.	Strip Tape and Reel		AMP Part No.	AMP Tooling Part No.
					10	100			100	500		Qty.	Pricing		
Socket	18 ~ 14	.080 ~ .100	H	A31997-ND◆	6.92	48.30	1-66360-2	A31997CT-ND◆	49.26	225.79	A31997TR-ND◆	4,000	246.32/M	1-66358-6	91519-1
Pin			C	A25127-ND◆	8.36	58.38	66361-3	A25127CT-ND◆	55.52	254.46	A25127TR-ND◆	4,000	277.59/M	66359-9	91519-1
Socket			C	A25128-ND◆	12.37	86.43	66360-3	A25128CT-ND◆	72.25	331.16	A25128TR-ND◆	4,000	361.26/M	66358-9	91519-1
Pin			A	A1650-ND◆	8.80	61.45	66361-4	A1650CT-ND◆	61.12	280.12	A1650TR-ND◆	4,000	305.58/M	1-66359-0	91519-1
Socket			A	A1341-ND◆	9.83	68.67	66360-4	A1341CT-ND◆	79.61	364.90	A1341TR-ND◆	4,000	398.07/M	1-66358-0	91519-1
Pin	18 ~ 14	.110 ~ .150	H	A32009-ND◆	5.94	41.46	66602-8	A32009CT-ND◆	37.97	174.02	A32009TR-ND◆	4,000	189.84/M	66597-8	91521-1
Socket			F	A25130-ND	7.29	50.92	66601-1	—	—	—	—	—	—	—	91521-1
Socket			H	—	—	—	—	A32012CT-ND◆	47.51	217.77	A32012TR-ND◆	4,000	237.57/M	66598-9	91521-1
Pin			A	A25131-ND◆	8.74	61.02	66602-2	A25131CT-ND◆	64.37	295.01	A25131TR-ND◆	4,000	321.83/M	66597-2	91521-1
Socket			A	A25012-ND◆	9.81	68.52	66601-2	A25012CT-ND◆	79.10	362.56	A25012TR-ND◆	4,000	395.52/M	66598-2	91521-1
Fig. 1, Series 1 — Grounding Pin (make first - break last) — RoHS Compliant															
Pin	24 ~ 20	.045 ~ .070	A	A25133-ND	27.51	192.14	164163-2	—	—	—	—	—	—	—	58495-1
Pin	18 ~ 16	.078 ~ .098	A	A25600-ND	19.42	135.62	164164-2	A25600CT-ND	160.12	733.88	A25600TR-ND	5,000	800.60/M	164161-4	58495-1
Fig. 2, Series 1 — RoHS Compliant															
Pin	26 ~ 20	.005 ~ .024	A	A25136-ND	13.90	97.11	66182-1	—	—	—	—	—	—	—	—
Socket			D	A25137-ND	17.49	122.19	66183-1	—	—	—	—	—	—	—	—
Pin	18 ~ 16	.030 ~ .055	A	A25138-ND	13.90	97.11	66180-1	—	—	—	—	—	—	—	—
Socket			D	A25139-ND	17.49	122.19	66181-1	—	—	—	—	—	—	—	—
Fig. 3 , Series 1															
Pin	—	—	B	A16081-ND	24.81	173.30	202236-1	—	—	—	—	—	—	—	—
Pin			B	A33761-ND◆	23.93	167.14	202236-7	—	—	—	—	—	—	—	—
Socket			J	A31983-ND◆	26.64	186.10	202237-7	—	—	—	—	—	—	—	—
Pin			H	A31982-ND◆	10.20	71.23	202236-5	—	—	—	—	—	—	—	—
Socket			H	A31984-ND◆	11.17	78.04	202237-5	—	—	—	—	—	—	—	—
Fig. 4 , Series 1															
Pin	—	—	H	A32000-ND◆†	6.17	43.10	6-66460-5	—	—	—	—	—	—	—	—
Socket			H	A32005-ND◆†	7.61	53.12	5-66461-4	—	—	—	—	—	—	—	—
Pin			F	A29350-ND‡	5.66	38.10	66460-2	—	—	—	—	—	—	—	—
Pin			F	A33762-ND◆‡	5.46	36.75	6-66460-7	—	—	—	—	—	—	—	—
Socket			F	A29345-ND‡	7.03	47.30	66461-2	—	—	—	—	—	—	—	—
Socket			F	A33763-ND◆‡	6.46	43.45	5-66461-8	—	—	—	—	—	—	—	—
Pin			H	A32001-ND◆★	6.17	43.10	6-66460-6	—	—	—	—	—	—	—	—
Socket			F	A29349-ND★	7.03	47.30	66461-3	—	—	—	—	—	—	—	—
Socket			F	A33764-ND◆★	6.46	43.45	5-66461-9	—	—	—	—	—	—	—	—
Pin	—	—	G	A32002-ND◆†	14.41	100.67	6-66460-2	—	—	—	—	—	—	—	—
Socket			G	A32006-ND◆†	11.02	76.97	5-66461-5	—	—	—	—	—	—	—	—
Pin			G	A32003-ND◆‡	9.52	66.48	6-66460-3	—	—	—	—	—	—	—	—
Socket			G	A29347-ND‡	10.47	70.43	66461-8	—	—	—	—	—	—	—	—
Socket			G	A33765-ND◆‡	9.62	64.69	6-66461-2	—	—	—	—	—	—	—	—
Pin			G	A32004-ND◆★	9.25	64.62	6-66460-4	—	—	—	—	—	—	—	—
Socket			G	A29348-ND★	10.18	68.46	66461-9	—	—	—	—	—	—	—	—
Socket			G	A33766-ND◆★	9.35	62.89	6-66461-3	—	—	—	—	—	—	—	—
Fig. 5, Series 2 — RoHS Compliant															
Pin	28 ~ 24	.040 max.	A	A1630-ND	2.39	16.67	66507-9	—	—	—	—	—	—	—	91503-1
Socket			A	A1632-ND	2.65	18.53	66505-9	—	—	—	—	—	—	—	91503-1
Socket			D	A31986-ND	3.22	22.50	1658538-1	A31986CT-ND	11.68	53.53	A31986TR-ND	10,000	52.56/M	1658538-3	91503-1
Pin	24 ~ 20	.050 max.	A	A1679-ND	2.14	19.20	66506-9	—	—	—	—	—	—	—	91503-1
Socket			A	A1680-ND	2.27	20.33	66504-9	—	—	—	—	—	—	—	91503-1
Pin			D	A1008-ND	2.19	19.58	1-66506-0	—	—	—	—	—	—	—	91503-1
Socket			A	A1009-ND	2.32	20.73	1-66504-0	—	—	—	—	—	—	—	91503-1
Socket			D	A31985-ND	2.26	15.78	1658537-2	A31985CT-ND	8.87	40.67	A31985TR-ND	10,000	39.94/M	1658537-1	91503-1
Fig. 6, Series 2 — RoHS Compliant															
Pin	—	—	D	A1028-ND	5.96	36.69	66570-3	—	—	—	—	—	—	—	—
Socket			D	A1029-ND	3.55	31.79	66569-3	—	—	—	—	—	—	—	—
Fig. 7, Series 3 — Crimp — RoHS Compliant															
Pin	16 ~ 12	.135 ~ .160	H	A31994-ND	30.55	213.38	66261-5	—	—	—	—	—	—	—	90382-2
Socket			H	A32010-ND	52.98	370.01	2-66740-1	—	—	—	—	—	—	—	90382-2
Pin			D	A16022-ND	75.73	528.91	66261-2	—	—	—	—	—	—	—	90382-2
Socket			D	A16026-ND	93.93	656.03	66740-6	—	—	—	—	—	—	—	90382-2
Pin			D	A25031-ND§	84.18	587.93	66262-2	—	—	—	—	—	—	—	90382-2
Pin			E	A25032-ND#	35.43	247.43	66261-4	—	—	—	—	—	—	—	90382-2
Socket			E	A25033-ND#	64.68	451.73	66740-2	—	—	—	—	—	—	—	90382-2
Pin			E	A25034-ND§#	78.65	549.34	66262-4	—	—	—	—	—	—	—	90382-2
Pin	10	.190 ~ .220	H	A31993-ND	29.25	204.30	66259-5	—	—	—	—	—	—	—	90384-1
Socket			H	A32011-ND	69.55	485.78	2-66741-1	—	—	—	—	—	—	—	90384-1
Pin			D	A16024-ND	62.73	438.11	66259-2	—	—	—	—	—	—	—	90384-1
Socket			D	A16028-ND	120.58	842.17	66741-6	—	—	—	—	—	—	—	90384-1
Pin			E	A25035-ND#	39.00	272.40	66259-4	—	—	—	—	—	—	—	90384-1
Socket			E	A25036-ND#	84.18	587.93	66741-2	—	—	—	—	—	—	—	90384-1

◆ ***RoHS Compliant*** # Recommended for high current/vibration applications where corrosion is a problem. § Ground contacts † 1 Wirewrap ‡ 2 Wirewrap ★ 3 Wirewrap

Series 1 Coaxial, Subminiature, Precision Formed, Crimp

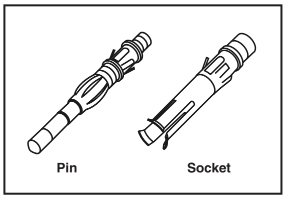

Outer Shell: Brass per MIL-C-50
Center Conductor: Beryllium copper per QQ-C-553 (Pin); Brass per QQ-B-626 (Socket)
Inner Dielectric: Polypropylene
Retention Spring: Stainless steel per QQ-S-766
Ferrule: Tin-lead per MIL-T-10727 over copper per QQ-C-576
Contact Finish: Gold/nickel; gold/copper (outer shell and socket center conductor: 30μ gold over 50μ nickel; pin center conductor: 30μ gold over 100μ copper)

NOTE: A ferrule is required for each pin and socket.

Coaxial Cable

Description	Cable Size RG/U	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
Contacts						
Pin	178, 196 196 (Double Braid)	A25144-ND	20.18	17.49	12.22	226537-2
Socket	178, 196 196 (Double Braid)	A25147-ND	17.03	14.76	10.31	51565-2
Pin	174, 188, 316 174 (Double Braid) 179, 187 187 (Double Braid), 161	A25145-ND	13.91	12.06	8.43	226537-1
Socket	174, 188, 316 174 (Double Braid) 179, 187 187 (Double Braid), 161	A25148-ND	12.90	11.18	7.81	51565-1
Ferrules						
178, 196 RG/U		A25150-ND	—	1.00	.70	1-332057-0
174, 188, 316, 179, 187, 161 RG/U		A25151-ND	—	.88	.62	1-332056-0

Twisted Pair and Shielded Wire

Description	Cable Size RG/U	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
Contacts						
Pin	30, 28 (Twisted Pair, Solid) 28 (Twisted Pair, Stranded .005 Dia.) 26 (Twisted Pair, Solid or Stranded .063 Dia.)	A25146-ND	17.55	15.21	10.63	226537-3
Socket	30, 28 (Twisted Pair, Solid) 28 (Twisted Pair, Stranded .005 Dia.) 26 (Twisted Pair, Solid or Stranded .063 Dia.)	A25149-ND	21.86	18.95	13.24	51565-3
Pin	26 (Shielded, .075 Max. O.D.)	A25145-ND	13.91	12.06	8.43	226537-1
Socket	26 (Shielded, .075 Max. O.D.)	A25148-ND	12.90	11.18	7.81	51565-1
Ferrule						
Use for Twisted Pair and Shielded Wire		A25150-ND	—	1.00	.70	1-332057-0

Series 1 Signal, Type II, Screw Machined, Crimp

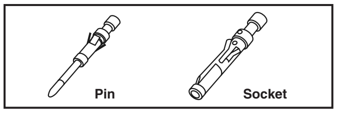

Pin Diameter: 1.57
Test Current: 13A
Contact Body: Brass
Retention Spring: Stainless steel
Contact Finish: 30μ gold over 50μ nickel. Gold thickness controlled on socket O.D.

Description	Wire Size AWG	Insulation Dia. Inch	Required Hand Tool	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
Crimp								
Pin	28-24	.035-.055	91538-1	A25110-ND	4.58	3.97	2.77	201611-1
Socket				A25112-ND	5.10	4.42	3.09	201613-1
Pin	24-20	.040-.062	91538-1	A25114-ND	4.05	3.51	2.46	201578-1
Socket				A25116-ND	3.34	2.90	2.03	201580-1
Pin		.055-.088	91538-1	A25132-ND	3.68	3.19	2.23	201330-1
Socket				A25541-ND	4.58	3.97	2.77	201328-1
Pin	18-16	.080-.105	90136-1	A25542-ND	4.32	3.75	2.62	202507-1
Socket				A25543-ND	5.63	4.88	3.41	202508-1
Pin		No Ins. Support	91539-1	A25540-ND	5.33	4.62	3.23	200336-1
Socket				A25539-ND	4.65	4.03	2.82	200333-1
Pin		No Ins. Support	91539-1	A25140-ND†	6.11	5.30	3.71	204219-1
Pin	14	No Ins. Support	91539-1	A25141-ND	3.68	3.19	2.23	201570-1
Socket				A25142-ND	4.46	3.87	2.71	201568-1
Pin		No Ins. Support	—	A25143-ND*†	10.88	9.43	6.59	212618-1
Hand Tools								
Certi-Crimp Tool with Dies				A29951-ND	764.78/1			91538-1
				A29952-ND	2850.00/1			90136-1
				A29953-ND	551.57/1			91539-1
PRO-CRIMPER™ II with Dies				A30235-ND	645.39/1			58541-1

* Grounding pin is used to provide a make-first/break-last condition when mating and unmating connector halves. † Pin length is .630 on these two pins.

.125 POWERBAND™ Contacts for Sealed Connectors

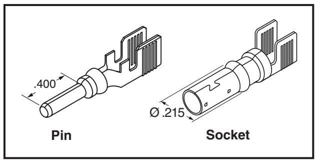

Test Current: 45A
Pin Diameter: .125
Contact Body: Copper with beryllium copper spring
Contact Finish:
A: Post plated 30μ in mating area with 5μ minimum gold on remainder of contact, all over 100μ minimum nickel
B: Post plated 200μ silver in mating area with 5μ minimum gold on remainder of contact, all over 100μ minimum nickel

Description	Wire Size AWG	Contact Finish	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Pin	14-12	A	A25066-ND	5.85	5.07	213845-4
Socket			A25067-ND	9.15	7.93	213847-4
Pin		B	A25068-ND	4.73	4.10	213845-3
Socket			A25069-ND	7.50	6.50	213847-3
Pin	10-8	A	A25070-ND	5.85	5.07	213841-4
Socket			A25071-ND	9.15	7.93	213843-4
Pin		B	A25072-ND	4.73	4.10	213841-3
Socket			A25073-ND	7.50	6.50	213843-3

Tools

Description	Digi-Key Part No.	Price Each	AMP Part No.
Series 1 Contacts			
PRO-CRIMPER™ III with Die Set, 28-24, 24-20, 18-16 AWG	A9920-ND	145.50	58495-1
PRO-CRIMPER III Hand Tool without Dies	A9996-ND	66.00	354940-1
Die Set for PRO-CRIMPER III, 28-24, 24-20, 18-16 AWG	A9919-ND	103.50	58495-2
Certi-Crimp Tool, 26-24, 24-20 AWG	A9951-ND	519.12	91515-1
Certi-Crimp Tool, 24-20, 18-16 AWG	A9839-ND	519.12	91523-1
Certi-Crimp Tool, 24-20, 18-16 AWG	A9841-ND	468.14	91505-1
Certi-Crimp Tool, 18-14 AWG	A31204-ND	551.57	91519-1
Series 1 and MIL-C-5015 Contacts			
Certi-Crimp Tool, 24-20 AWG	A9941-ND	551.57	91542-1
Certi-Crimp Tool, 18-16, 14 AWG	A9009-ND	551.57	91521-1
Contact Extraction Tool	A1329-ND	12.60	305183
Series 2 Contacts			
PRO-CRIMPER III with Die Set, 28-24, 24-20 AWG	A9990-ND	145.50	58448-2
Die Set for PRO-CRIMPER III, 28-24, 24-20 AWG	A9814-ND	111.00	58448-3
Certi-Crimp Tool, 28-24, 24-20 AWG	A31205-ND	491.31	91503-1
Contact Insertion / Extraction Tool	A1010-ND	5.40	91067-2
PRO-CRIMPER III Hand Tool without Dies	A9996-ND	66.00	354940-1
PRO-CRIMPER II/III Repair Kit	A34584-ND	51.00	679221-1
Series 3 Contacts			
Certi-Crimp Tool, 16-12 AWG	A9911-ND	655.08	90382-2
Certi-Crimp Tool, 10 AWG	A9910-ND	655.08	90384-1
Contact Extraction Tool	A9912-ND	98.00	91019-3
Coaxial			
Die Set for PRO-CRIMPER III RG-174/188/316	A30529-ND	569.64	91911-3
Certi-Crimp Tool RG-178/196	A25152-ND	5176.50	69656-2
Certi-Crimp Tool, 26 AWG Shielded	A25153-ND	4885.50	69656-3
POWERBAND™ Contacts			
Certi-Crimp Hand Tool without Die	A28006-ND	358.50	69710-1
Die Set for 69710-1, 8 AWG	A97910-ND ***NEW!***	3035.93	356611-1
Die Set for 69710-1, 10 AWG	A97911-ND ***NEW!***	2535.00	356611-2
Die Set for 69710-1, 12-14 AWG	A97912-ND ***NEW!***	2535.00	356612-1

Shielded DIN Connectors

Features: • Crimp, snap-in contacts • Designed for ease of post molding • Pre-molded cord guard • Tin-plated brass contacts • Ferrule crimps onto shield for reliable termination • Meets or exceeds DIN specification 41524 for 3-position and 5-position plugs and DIN 45322 for 6-position plugs • UL recognized under the Component Program, File No. E28476 • CSA certified, File No. LR-35510

Housings: Black nylon 94V-0 **Ferrule and Shield:** Brass, tin-plated **Cord Guard:** Thermoplastic polymer, black **Contacts:** Brass, tin-plated **Pin Contacts:** Copper alloy; 0.00050" tin over 0.000100" nickel plating

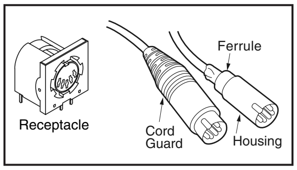

Description	Digi-Key Part No.	Pricing 1	25	AMP Part No.
6-Position Housing	A32317-ND†	2.31	54.69	9-212437-1
8-Position Housing	A32318-ND†	3.09	73.06	9-212437-2
Cord Guard, 4.19mm-6.35mm Cable Diameter	A1659-ND	1.99	46.08	212800-1
5-Position Receptacle, Right Angle	A32314-ND	3.26	77.00	5212044-1
6-Position Receptacle, Right Angle	A32315-ND	3.98	94.06	5212045-1
8-Position Receptacle, Right Angle	A32316-ND	4.31	101.94	5212047-1
Pin Contact, 28-22 AWG	A1667-ND	10.05/10	70.20/100	66728-5
Contact Insertion Tool	A9998-ND	19.38	—	91002-1
Contact Extraction Tool	A9997-ND	895.05	—	91144-1

† Ferrules, contacts and cord guards sold separately

Circular Metal Shell Connectors

Note: Shell Only Material and Finish: Receptacle: Insert: Black thermoplastic; **Outer Shell:** Aluminum alloy, zinc plated or unplated **Plug: Insert:** Black thermoplastic **Outer Shell and Coupling Ring:** Aluminum alloy, zinc plated **Retainer Ring:** Stainless steel

Note:
Contacts (pins and sockets) must be ordered separately.

Component Diameter	
Arrangement/ Shell Size	**Overall Dia. Inch (mm)**
14	1.225 (31.12)
22	1.750 (44.45)
28	2.170 (55.12)

Series 1 and 2

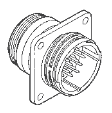

*** Standard Sex**
Receptacle with Pins

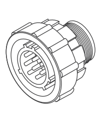

† Reverse Sex
(Plug/Pins)

Series 3

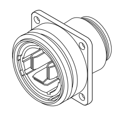

*** Standard Sex**
Square Flange Receptacle

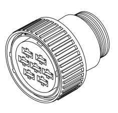

*** Standard Sex**
Plug

Series 4

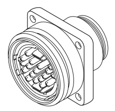

*** Standard Sex**
Square Flange Receptacle

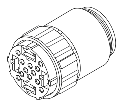

*** Standard Sex**
Plug

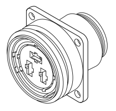

† Reverse Sex
Square Flange Receptacle

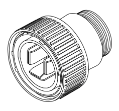

† Reverse Sex
Plug

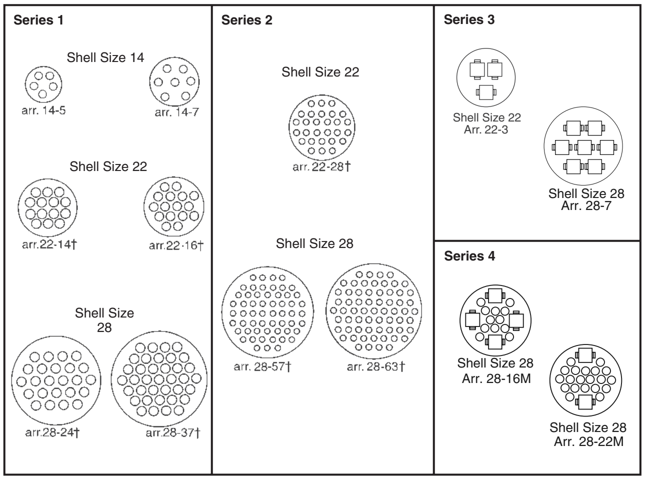

* Standard Sex: Pin contacts in receptacle housings; socket contacts in plug housings.
† Reverse Sex: Socket contacts in receptacle housings; pin contacts in plug housings.

Arrangement Number	Sex	Description (Shell Only)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
		Series 1				
14-5	Standard	Receptacle-Sq. Flanged	A1600-ND	25.67	23.79	208719-1
		Plug	A1601-ND	61.46	56.97	208718-1
	Reverse	Receptacle-Sq. Flanged	A1602-ND	29.21	27.08	208721-1
		Plug	A1603-ND	45.63	42.30	208720-1
14-7	Standard	Receptacle-Sq. Flanged	A1604-ND	26.73	24.78	208715-1
		Plug	A1605-ND	42.66	39.54	208714-1
	Reverse	Receptacle-Sq. Flanged	A1606-ND	26.73	24.78	208717-1
		Plug	A1607-ND	41.70	38.65	208716-1
22-14	Reverse	Receptacle-Sq. Flanged	A1608-ND	28.62	26.53	208487-1
		Plug	A1609-ND	37.56	34.81	208486-1
		Plug with Tetraseals	A25051-ND‡	41.53	38.50	208486-3
22-16	Standard	Receptacle-Sq. Flanged	A1610-ND	31.96	29.63	208489-1
		Plug	A1611-ND	36.12	33.48	208488-1
28-24	Standard	Receptacle-Sq. Flanged	A1612-ND	42.23	39.14	208459-1
		Plug	A1613-ND	46.17	42.79	208457-1
28-37	Standard	Receptacle-Sq. Flanged	A1614-ND	36.61	33.94	208471-1
		Plug	A1615-ND	46.17	42.79	208470-1
	Reverse	Receptacle-Sq. Flanged	A1616-ND	36.61	33.94	208473-1
		Plug	A1617-ND	44.30	41.06	208472-1
		Series 2				
22-28	Standard	Receptacle-Sq. Flanged	A1618-ND#	24.33	22.56	208491-1
		Plug	A1619-ND	97.35	90.24	208490-1
	Reverse	Receptacle-Sq. Flanged	A1620-ND#	23.37	21.66	208493-1
		Plug	A1621-ND	108.04	100.13	208492-1
28-57	Reverse	Receptacle-Sq. Flanged	A1622-ND#	35.73	33.12	208475-1
		Plug	A1623-ND	144.36	133.80	208474-1
28-63	Standard	Receptacle-Sq. Flanged	A1624-ND#	35.73	33.12	208477-1
		Plug	A1625-ND	135.57	125.65	208476-1
		Series 3				
22-3	Standard	Receptacle-Sq. Flanged	A16070-ND	29.15	27.02	208495-1
		Plug	A16071-ND	40.16	37.23	208494-1
	Reverse	Plug	A25052-ND	40.16	37.23	208496-1
		Receptacle-Sq. Flanged	A30541-ND	24.50	22.71	208497-1
28-7	Standard	Receptacle-Sq. Flanged	A16072-ND	31.86	29.53	208483-1
		Plug	A16073-ND	51.31	47.56	208482-1
	Reverse	Receptacle-Sq. Flanged	A16074-ND	37.17	34.45	208485-1
		Plug	A16075-ND	44.98	41.69	208484-1
		Series 4				
28-16	Standard	Receptacle-Sq. Flanged	A16076-ND	32.62	30.23	208479-1
		Plug	A16077-ND	51.39	47.64	208478-1
28-22	Standard	Receptacle-Sq. Flanged	A16078-ND	32.62	30.23	208481-1
		Plug	A16079-ND	44.98	41.69	208480-1

# Aluminum alloy, unplated
‡ Tetraseal provides splash-proof sealing between mating metal shells

CPC Connector Accessories, Metal-Shell

Cable clamps are used to prevent excessive strain on cable or wire from being transmitted to the contacts inside the connector housings.

Material:
Zinc alloy, nickel plated

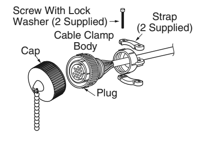

Shell Size	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
		Cable Clamps			
14	.225 - .562 (5.71 - 14.27)	A1626-ND	11.54	10.70	208945-5
22	.325 - .750 (8.26 - 19.05)	A1627-ND	18.55	17.20	208945-7
28	.450 - .938 (11.43 - 23.83)	A1628-ND	26.24	24.32	208945-8
		Protective Caps			
14	—	A25047-ND	18.45	17.10	213823-2
22	—	A1633-ND	29.81	27.63	211903-1
28	—	A1634-ND	32.02	29.68	211904-1

Audio / Instrument Connectors (DIN Type)

Audio/Instrument connectors are economical, quick connect/disconnect attachments for audio and instrument cable having small, flexible, stranded wire conductors. These versatile connectors are ideally suited for application in citizens' band (CB) radios, test equipment, computer input terminals and industrial control equipment.

Material and Finish: • Plug/Receptacle: Thermoplastic, black • Contacts: Brass, tin over nickel plated

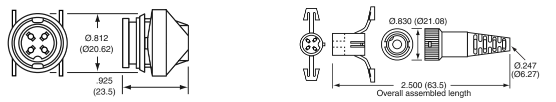

Receptacle Housing **Contact Housing** **Cord Guard**

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	AMP Part No.
		Plug Assemblies				
5	Contact Housing	A25075-ND	1.31	1.22	1.07	207488-1
6	Contact Housing	A25076-ND	2.56	2.38	2.08	207332-1
—	Cord Guard	A25077-ND	2.50	2.32	2.03	207314-1
		Receptacle				
5	Receptacle Housing	A25079-ND	2.91	2.70	2.36	207487-1
6	Receptacle Housing	A25080-ND	2.72	2.53	2.21	207333-1
		Crimp Contacts — 22-28AWG				
—	Pin, Diameter .058" (1.47mm), Loose	A25082-ND	.38	.36	.31	207438-3
	Socket, Loose	A25083-ND	.38	.35	.31	207437-3
		Tool				
—	Contact Extraction Tool	A25081-ND	56.64	—	—	91136-1

Tyco Electronics AMP

Authorized Distributor

M8 and M12 Series Circular Connectors

RoHS COMPLIANT

Specifications:
Electrical: • Operating Temperature: -25°C ~ 90°C • Contact Resistance: 10mΩ Maximum • Current Rating: 2A for M8 and 5A for M12 • Breakdown Voltage: 500VAC Minimum • Insulation Resistance: 100MΩ Minimum **Environmental:** • Sealing Requirements: IP67 • Durability: 500 cycles

Fig. 1

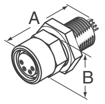

M8 Shown

Fig. 2

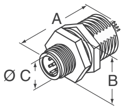

M12 Shown

Fig. 3

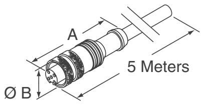

M12 Female Shown

Fig. 4

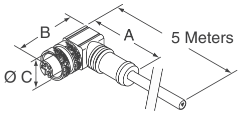

M12 Female Shown

Fig. 5

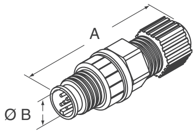

Fig. 6

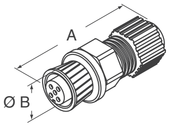

Fig.	No. of Pos.	Sex	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Metal Panel Mount Connector, Solder, Straight, Rear (Hexagonal) Mounting									
M8 Series									
1	3	Female	21.0	10.0	—	A97638-ND	9.64	8.93	1838839-1
2	3	Male	23	12.0	6.90	A97636-ND	8.06	7.06	1838838-1
1	4	Female	21.0	10.0	—	A97639-ND	10.74	9.96	1838839-2
2	4	Male	23	12.0	6.90	A97637-ND	9.40	8.23	1838838-2
M12 Series									
1	3	Female	25.3	18.0	—	A97646-ND	9.64	8.93	1838891-1
2	3	Male	24.5	18.0	10.6	A97649-ND	8.26	7.66	1838893-1
1	4	Female	25.3	18.0	—	A97647-ND	10.74	9.96	1838891-2
2	4	Male	24.5	18.0	10.6	A97650-ND	9.64	8.93	1838893-2
1	5	Female	25.3	18.0	—	A97648-ND	11.83	10.97	1838891-3
2	5	Male	24.5	18.0	10.6	A97651-ND	10.74	9.96	1838893-3
Straight Connector with Strain Relief, 5 Meter PVC Cable, M8 Series									
3	3	Male	42.0	10.5	—	A97630-ND	11.46	10.03	1838286-3
	3	Female	38.1	10.0	—	A97628-ND	12.28	10.75	1838282-3
	4	Male	42.7	10.5	—	A97631-ND	12.98	11.36	1838288-3
	4	Female	38.1	10.0	—	A97629-ND	13.44	11.76	1838284-3
Straight Connector, 5 Meter PVC Cable, M12 Series									
3	3	Male	44.4	14.4	—	A97652-ND	11.46	10.03	1838236-3
	3	Female	43.3	14.5	—	A97655-ND	12.28	10.75	1838242-3
	4	Male	44.4	14.4	—	A97653-ND	12.98	11.36	1838238-3
	4	Female	43.3	14.5	—	A97656-ND	13.44	11.76	1838244-3
	5	Male	44.4	14.4	—	A97654-ND	14.74	12.90	1838240-3
	5	Female	43.3	14.5	—	A97657-ND	15.28	13.37	1838246-3
Right Angled Connector with Strain Relief, 5 Meter PVC Cable, M8 Series									
4	3	Male	20.7	25.5	10.5	A97632-ND	11.46	10.03	1838290-3
	3	Female	20.7	20.0	10.0	A97634-ND	12.28	10.75	1838296-3
	4	Male	20.7	25.5	10.5	A97633-ND	12.98	11.36	1838292-3
	4	Female	20.7	20.0	10.0	A97635-ND	13.44	11.76	1838298-3
Right Angled Connector, 5 Meter PVC Cable, M12 Series									
4	3	Male	35.0	27.9	14.4	A97658-ND	11.46	10.03	1838248-3
	3	Female	35.0	26.9	14.5	A97661-ND	12.28	10.75	1838254-3
4	4	Male	35.0	27.9	14.4	A97659-ND	12.98	11.36	1838250-3
	4	Female	35.0	26.9	14.5	A97662-ND	13.44	11.76	1838256-3
	5	Male	35.0	27.9	14.4	A97660-ND	14.74	12.90	1838252-3
	5	Female	35.0	26.9	14.5	A97663-ND	15.28	13.37	1838258-3
Right Angled LED Version Connector, 5 Meter PVC Cable, M12 Series									
4	3	Female	35.0	26.9	14.5	A97664-ND	22.86	20.01	1838264-3
	4	Female	35.0	26.9	14.5	A97665-ND	24.78	21.69	1838266-3
Field Serviceable Connector, Solder Type, M12 Series									
5	3	Male	41.8	14.4	—	A97643-ND	10.74	9.96	1838275-1
6	3	Female	40.5	14.5	—	A97640-ND	12.12	11.23	1838274-1
5	4	Male	41.8	14.4	—	A97644-ND	11.30	10.47	1838275-2
6	4	Female	40.5	14.5	—	A97641-ND	12.94	11.99	1838274-2
5	5	Male	41.8	14.4	—	A97645-ND	11.83	10.97	1838275-3
6	5	Female	40.5	14.5	—	A97642-ND	13.78	12.77	1838274-3
Plastic Field Serviceable Connector, Solder Type, M12 Series									
5	3	Male	41.8	13.8	—	A97669-ND	10.48	9.71	1838277-1
6	3	Female	40.5	15.0	—	A97666-ND	11.83	10.97	1838276-1
5	4	Male	41.8	13.8	—	A97670-ND	11.01	10.21	1838277-2
6	4	Female	40.5	15.0	—	A97667-ND	12.67	11.75	1838276-2
5	5	Male	41.8	13.8	—	A97671-ND	11.58	10.74	1838277-3
6	5	Female	40.5	15.0	—	A97668-ND	13.51	12.53	1838276-3

MIL-C-5015 Style Circular Plastic Connectors - Shell Size 20-14

Fig. 1

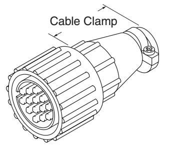

Reverse Sex

Fig. 2

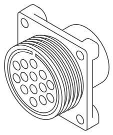

Reverse Sex

UL File No. E28476 CSA File No. LR7189

Standard Sex: Pin contacts in receptacle housings; socket contacts in plug housings.
Reverse Sex: Socket contacts in receptacle housings; pin contacts in plug housings.

Fig.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Plug Kit, Unassembled – RoHS Compliant					
1	Reverse Sex without Cable Clamp	A25015-ND	11.28	10.45	213571-2
	Standard Sex without Cable Clamp	A25016-ND	17.34	16.08	213652-1
Cable Clamps – Shell Size 17					
1	O.D. .453” (11.51mm), for use with 213652-1	A1332-ND	3.96	3.67	206070-1
	O.D. .703” (17.86mm), for use with 213571-2	A1689-ND	4.53	4.20	206322-1
	O.D. .703” (17.86mm), for use with 213571-2	A33767-ND◆	4.43	4.11	206322-9
Receptacle, Square Flange – RoHS Compliant					
2	Reverse Sex	A25017-ND	9.98	9.26	213570-1
	Standard Sex	A25018-ND	9.80	9.09	213651-1

Contacts for MIL-C-5015 Connectors

Crimp Style, Type III+

Contact Finish: A: 30µ” gold on the electrical engagement area over 50µ” nickel **B:** Tin

Pin

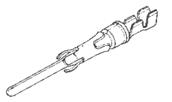

Socket

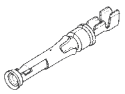

Desc.	AWG	Cont. Fin.	Digi-Key Part No.	Loose Pc. Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Tape & Reel* 4,000	AMP Part No.
Insulation Diameter Range Inch (mm): .060-.135 (1.52-3.43)										
Pin	24-20	B	—	—	—	—	A25009CT-ND◆	52.36	255.00/M	213605-1
Socket	24-20	B	A25007-ND	7.30	50.98	66565-2	—	—	—	—
Socket	24-20	B	A33768-ND◆	7.04	49.18	66565-7	—	—	—	—
Socket	24-20	A	A25008-ND◆	10.16	70.99	66565-4	A25008CT-ND◆	79.97	399.87/M	66563-8
Insulation Diameter Range Inch (mm): .110-.150 (2.79-3.81)										
Socket	18-14	B	A25130-ND	7.29	50.92	66601-1	—	—	—	—
Socket	18-14	B	A33769-ND◆	5.31	37.07	66601-9	—	—	—	—
Pin	18-14	A	A25131-ND◆	8.74	61.02	66602-2	—	—	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND.

CUI INC

Miniature DIN Connectors

APPLICATIONS: Because of their compact size and durable design, mini-DIN connectors are ideal for signal applications where space is at a premium. A variety of configurations including vertical, horizontal and in-line models allows for most requirements. Their concentric, cylindrical ground shell make these connectors an excellent choice where EMI/RFI is a concern. Typical applications include computers, peripheral devices, office, audio and video equipment. **GENERAL SPECIFICATIONS: • Rating:** 100VAC 1A maximum, 12VDC 2A maximum **• Insulation Resistance:** minimum 50MEGΩ @ 250VDC **• Voltage Withstand:** 250VAC, 1 minute **• Contact Resistance:** Pins - 30mΩ maximum, Shell - 50mΩ maximum (All accessories included)

No. of Pos.	Digi-Key Part No.	Price Each			CUI Inc. Part No.
		1	10	100	
Right Angle PCB Mount Receptacles					
3	CP-2430-ND	.78	.68	.52	MD-30S
4	CP-2440-ND◆	.81	.71	.54	MD-40S
5	CP-2450-ND◆	.86	.75	.57	MD-50S
6	CP-2460-ND◆	.90	.78	.60	MD-60S
7	CP-2470-ND◆	1.02	.89	.68	MD-70S
8	CP-2480-ND◆	1.11	.97	.74	MD-80S
9	CP-2490-ND◆	1.53	1.33	1.02	MD-90S
Slim Shielded Right Angle PCB Receptacles — RoHS Compliant					
4	CP-2245-ND	1.44	1.25	.96	MD2-40ST
6	CP-2267-ND	1.53	1.33	1.02	MD2-60ST
SMT Slim Shielded Right Angle Receptacles — RoHS Compliant					
4	CP-3145-ND	1.65	1.43	1.10	MD2-40ST-SMT
6	CP-3167-ND	1.74	1.51	1.16	MD2-60ST-SMT
Shielded Right Angle Receptacles					
3	CP-2230-ND	.99	.86	.66	MD-30SM
4	CP-2240-ND◆	1.02	.89	.68	MD-40SM
5	CP-2250-ND◆	1.05	.91	.70	MD-50SM
6	CP-2260-ND◆	1.11	.97	.74	MD-60SM
7	CP-2270-ND◆	1.23	1.07	.82	MD-70SM
8	CP-2280-ND◆	1.32	1.15	.88	MD-80SM
9	CP-2290-ND◆	1.65	1.43	1.10	MD-90SM
Shielded Receptacles with Switch					
3	CP-3030-ND	2.01	1.75	1.34	MD-30SMW
4	CP-3040-ND◆	2.10	1.82	1.40	MD-40SMW
5	CP-3050-ND	2.19	1.90	1.46	MD-50SMW
6	CP-3060-ND◆	2.31	2.01	1.54	MD-60SMW
7	CP-3070-ND	2.40	2.08	1.60	MD-70SMW
8	CP-3080-ND◆	2.46	2.14	1.64	MD-80SMW
Shielded Receptacles with Kinked Pins					
3	CP-4030-ND	.99	.86	.66	MD-30SMK
4	CP-4040-ND◆	1.02	.89	.68	MD-40SMK
5	CP-4050-ND◆	1.05	.91	.70	MD-50SMK
6	CP-4060-ND◆	1.11	.97	.74	MD-60SMK
7	CP-4070-ND◆	1.23	1.07	.82	MD-70SMK
8	CP-4080-ND◆	1.32	1.15	.88	MD-80SMK
Shielded Receptacles with Ground Tabs					
3	CP-5030-ND	2.37	2.06	1.58	MD-30SG
4	CP-5040-ND◆	2.40	2.08	1.60	MD-40SG
5	CP-5050-ND◆	2.43	2.11	1.62	MD-50SG
6	CP-5060-ND◆	2.46	2.14	1.64	MD-60SG
8	CP-5080-ND◆	2.61	2.27	1.74	MD-80SG
Shielded Receptacles with Ground Tabs and Kinked Pins					
3	CP-6030-ND	2.37	2.06	1.58	MD-30SGK
4	CP-6040-ND◆	2.40	2.08	1.60	MD-40SGK
5	CP-6050-ND	2.43	2.11	1.62	MD-50SGK
6	CP-6060-ND◆	2.46	2.14	1.64	MD-60SGK
8	CP-6080-ND◆	2.61	2.27	1.74	MD-80SGK
Vertical PCB Mount Receptacles — RoHS Compliant					
3	CP-2730-ND	1.02	.89	.68	MD-30SV
4	CP-2740-ND	1.08	.94	.72	MD-40SV
5	CP-2750-ND	1.14	.99	.76	MD-50SV
6	CP-2760-ND	1.17	1.02	.78	MD-60SV
8	CP-2780-ND	1.29	1.12	.86	MD-80SV
Vertical PCB Mount Threaded Receptacles with Hex Nut — RoHS Compliant					
3	CP-2830-ND	1.41	1.23	.94	MD-30CV
4	CP-2840-ND	1.47	1.28	.98	MD-40CV
5	CP-2850-ND	1.50	1.30	1.00	MD-50CV
6	CP-2860-ND	1.56	1.36	1.04	MD-60CV
8	CP-2880-ND	1.65	1.43	1.10	MD-80CV
In-Line Plugs Solder					
3	CP-2030-ND	1.29	1.12	.86	MD-30
4	CP-2040-ND◆	1.32	1.15	.88	MD-40
5	CP-2050-ND◆	1.38	1.20	.92	MD-50
6	CP-2060-ND◆	1.20	1.04	.80	MD-60
7	CP-2070-ND◆	1.50	1.30	1.00	MD-70
8	CP-2080-ND◆	1.56	1.36	1.04	MD-80
9	CP-2090-ND◆	1.98	1.72	1.32	MD-90
Crimp Pin	CP-9999-ND	—	.09	.05	T-0006
In-Line Receptacles Solder					
3	CP-2130-ND◆	1.23	1.07	.82	MD-30J
4	CP-2140-ND	1.29	1.12	.86	MD-40J
5	CP-2150-ND◆	1.56	1.36	1.04	MD-50J
6	CP-2160-ND◆	1.62	1.41	1.08	MD-60J
7	CP-2170-ND	1.47	1.28	.98	MD-70J
8	CP-2180-ND◆	1.53	1.33	1.02	MD-80J
9	CP-2190-ND◆	1.98	1.72	1.32	MD-90J

◆ *RoHS Compliant*

Right Angle PCB Mount Receptacle

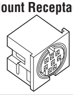

Slim Shielded Right Angle Receptacle

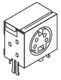

SMT Slim Shielded Right Angle Receptacle

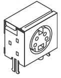

Shielded Right Angle Receptacle

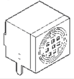

Shielded with Switch

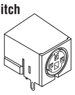

Shielded with Kinked Pins

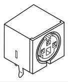

Shielded with Ground Tabs

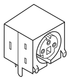

Shielded with GND Tabs and Kinked Pins

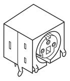

Verticle, PCB Mount

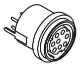

Verticle, PCB Threaded with Hex Nut

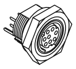

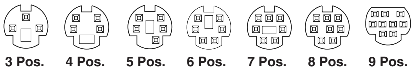

In-Line Plug

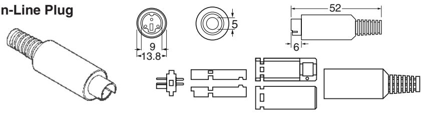

In-Line Receptacle

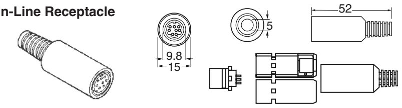

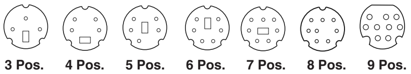

Mini-DIN Panel Mount Connectors

Panel Mount Receptacle, Metal

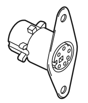

Panel Mount Receptacle, Plastic

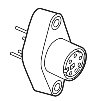

Panel Mount Receptacle, with 4" Lead Wires

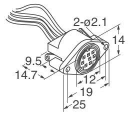

No. of Pos.	Digi-Key Part No.	Price Each			CUI Inc. Part No.
		1	10	100	
Panel Mount Mini-DIN Connectors — Metal					
3	CP-2530-ND	1.44	1.25	.96	MD-30SN
4	CP-2540-ND◆	1.29	1.12	.86	MD-40SN
5	CP-2550-ND◆	1.35	1.17	.90	MD-50SN
6	CP-2560-ND◆	1.62	1.41	1.08	MD-60SN
7	CP-2570-ND	1.47	1.28	.98	MD-70SN
8	CP-2580-ND◆	1.74	1.51	1.16	MD-80SN
9	CP-2590-ND◆	1.62	1.41	1.08	MD-90SN
Panel Mount Mini-DIN Connectors — Plastic					
3	CP-2630-ND◆	1.32	1.15	.88	MD-30SP
4	CP-2640-ND◆	1.59	1.41	1.06	MD-40SP
5	CP-2650-ND	1.44	1.25	.96	MD-50SP
6	CP-2660-ND◆	1.71	1.49	1.14	MD-60SP
7	CP-2670-ND◆	1.56	1.39	1.04	MD-70SP
8	CP-2680-ND◆	1.62	1.41	1.08	MD-80SP
Panel Mount Mini-DIN Connectors with 4" Lead Wires (26AWG) — RoHS Compliant					
3	CP-2930-ND	1.65	1.43	1.10	MD-30PL100
4	CP-2940-ND	1.74	1.51	1.16	MD-40PL100
5	CP-2950-ND	1.89	1.64	1.26	MD-50PL100
6	CP-2960-ND	1.98	1.72	1.32	MD-60PL100
8	CP-2980-ND	2.19	1.90	1.46	MD-80PL100

◆ *RoHS Compliant*

Circular DIN Connectors

APPLICATIONS: Circular DIN connectors combine low contact resistance with relatively high ampacity which make them an excellent choice for signal or power applications. Ideal for use with computers, peripheral devices, office equipment, power supplies, etc., their low cost and compact, durable design have made them a proven value.

GENERAL SPECIFICATIONS: • Ratings: 100VAC 2A maximum **• Insulation Resistance:** minimum 100MEGΩ @ 500VDC **• Voltage Withstand:** 1000VAC, 1 minute **• Contact Resistance:** Pins - 10mΩ @ maximum, Shell - 50mΩ maximum (All accessories included)

No. of Pos.	Digi-Key Part No.	Price Each			CUI Inc. Part No.
		1	10	100	
Panel Mount Receptacles — RoHS Compliant					
3	CP-1230-ND	1.20	1.04	.80	SD-30SN
4	CP-1240-ND	1.26	1.10	.84	SD-40SN
5	CP-1250-ND	1.29	1.12	.86	SD-50SN
6	CP-1260-ND	1.35	1.17	.90	SD-60SN
7	CP-1270-ND	1.38	1.20	.92	SD-70SN
8	CP-1280-ND	1.44	1.25	.96	SD-80SN
Panel Mount Locking Receptacles					
3	CP-1233-ND◆	2.48	2.15	1.66	SD-30LS
4	CP-1234-ND◆	2.62	2.28	1.75	SD-40LS
5	CP-1235-ND◆	2.76	2.40	1.85	SD-50LS
6	CP-1236-ND◆	2.91	2.52	1.94	SD-60LS
7	CP-1237-ND	3.05	2.65	2.04	SD-70LS
8	CP-1238-ND◆	3.20	2.78	2.14	SD-80LS
Vertical PCB Mount Receptacles					
3	CP-3130-ND	.88	.77	.59	SD-30BV
5	CP-3150-ND◆	.93	.81	.62	SD-50BV
6	CP-3160-ND◆	.96	.83	.64	SD-60BV
7	CP-3170-ND	.99	.86	.66	SD-70BV
8	CP-3180-ND◆	1.04	.90	.69	SD-80BV
Right Angle Receptacles — RoHS Compliant					
3	CP-2330-ND	.69	.60	.46	SDS-30J
4	CP-2340-ND	.72	.63	.48	SDS-40J
5	CP-2350-ND	.72	.63	.48	SDS-50J
6	CP-2360-ND	1.08	.94	.72	SDS-60J
7	CP-2370-ND	1.20	1.04	.80	SDS-70J
8	CP-2380-ND	1.32	1.15	.88	SDS-80J
13	CP-2313-ND	2.85	2.47	1.90	SDD-130J

No. of Pos.	Digi-Key Part No.	Price Each			CUI Inc. Part No.
		1	10	100	
Right Angle Front Shielded Receptacles					
3	CP-7030-ND◆	.75	.65	.50	SDF-30J
4	CP-7040-ND◆	.90	.78	.60	SDF-40J
5	CP-7050-ND◆	.90	.78	.60	SDF-50J
6	CP-7060-ND◆	1.23	1.07	.82	SDF-60J
7	CP-7070-ND	1.32	1.15	.88	SDF-70J
8	CP-7080-ND◆	1.50	1.30	1.00	SDF-80J
13	CP-3313-ND◆	2.97	2.58	1.98	SDF-130J
Right Angle Surface Mount Receptacles					
4	CP-1000-ND	1.26	1.10	.84	SDS-40J-SMT
8	CP-1001-ND	1.53	1.33	1.02	SDS-80J-SMT
In-Line Plugs — RoHS Compliant					
3	CP-1030-ND	1.14	.99	.76	SD-30
4	CP-1040-ND	1.17	1.02	.78	SD-40
5	CP-1050-ND	1.23	1.07	.82	SD-50
6	CP-1060-ND	1.26	1.10	.84	SD-60
7	CP-1070-ND	1.32	1.15	.88	SD-70
8	CP-1080-ND	1.35	1.17	.90	SD-80
13	CP-1013-ND	1.98	1.72	1.32	SD-130
In-Line Locking Plugs					
3	CP-1033-ND◆	3.41	2.96	2.28	SD-30LP
4	CP-1034-ND◆	3.55	3.08	2.37	SD-40LP
5	CP-1035-ND	3.73	3.24	2.49	SD-50LP
6	CP-1036-ND◆	3.88	3.36	2.59	SD-60LP
7	CP-1037-ND	4.02	3.49	2.68	SD-70LP
8	CP-1038-ND	4.16	3.61	2.78	SD-80LP
In-Line Right Angle Plugs					
3	CP-1330-ND◆	2.28	1.98	1.52	SDR-30
5	CP-1350-ND◆	2.49	2.16	1.66	SDR-50
6	CP-1360-ND◆	2.55	2.21	1.70	SDR-60
7	CP-1370-ND	2.73	2.37	1.82	SDR-70
8	CP-1380-ND◆	2.82	2.45	1.88	SDR-80
In-Line Receptacles — RoHS Compliant					
3	CP-1130-ND	1.14	.99	.76	SD-30J
4	CP-1140-ND	1.29	1.12	.86	SD-40J
5	CP-1150-ND	1.32	1.15	.88	SD-50J
6	CP-1160-ND	1.35	1.17	.90	SD-60J
7	CP-1170-ND	1.38	1.20	.92	SD-70J
8	CP-1180-ND	1.41	1.23	.94	SD-80J
13	CP-1113-ND	3.45	2.99	2.30	SD-130J

◆ *RoHS Compliant*

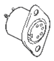

Panel Mount Receptacle

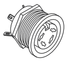

Panel Mount Locking Receptacle

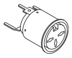

Verticle PCB Mount Receptacle

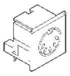

Right Angle Receptacle

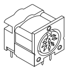

Right Angle Front Shielded Receptacle

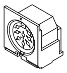

Right Angle SMT Receptacle

In-Line Plug

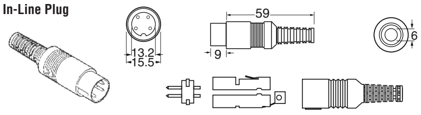

In-Line Locking Plug

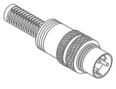

In-Line Plug Right Angle

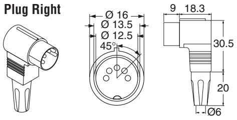

In-Line Receptacle

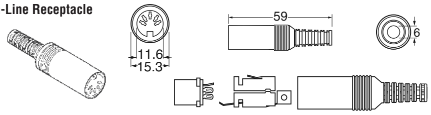

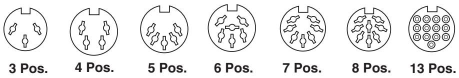

SINGATRON Mini DIN Connectors

APPLICATIONS:
Because of their compact size and durable design, Mini DIN connectors are ideal for signal applications where space is at a premium. A variety of configurations including vertical, horizontal and in-line models allows for most requirements. Their concentric, cylindrical ground shell make these connectors an excellent choice where EMI/RFI is a concern. Typical applications include computers, peripheral devices, office, audio and video equipment.

GENERAL SPECIFICATIONS:
• **Rating:** 100VAC 1A maximum, 12VDC 2A maximum • **Insulation Resistance:** minimum 50MΩ @ 250VDC • **Voltage Withstand:** 250VAC, 1 minute • **Contact Resistance:** Pins - 30mΩ maximum, Shell - 50mΩ maximum (All accessories included)

Right Angle Receptacle

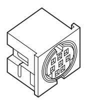

Shielded Right Angle Receptacle

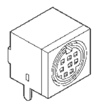

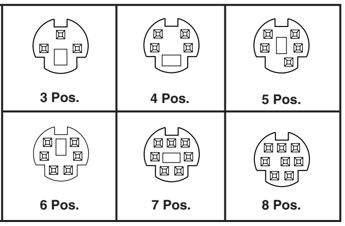

In-Line Plug

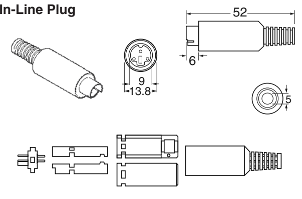

In-Line Jack

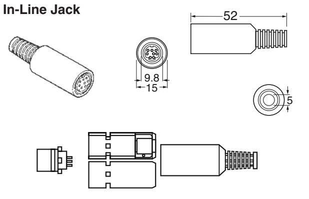

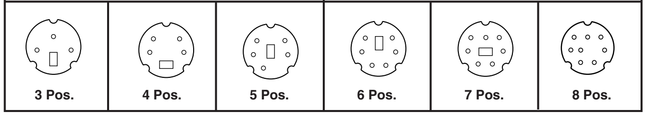

Description	Digi-Key Part No.	Pricing			Singatron Part No.
		1	10	100	
Right Angle PCB Mount Receptacles					
3-Pos. Right Angle Receptacle	275-1040-ND	.81	7.02	54.60	2MJ-0001A110
4-Pos. Right Angle Receptacle	275-1041-ND◆	.84	7.29	56.70	2MJ-0002A110
6-Pos. Right Angle Receptacle	275-1043-ND◆	.93	8.10	63.00	2MJ-0004A110
7-Pos. Right Angle Receptacle	275-1044-ND	1.05	9.18	71.40	2MJ-0005A110
8-Pos. Right Angle Receptacle	275-1045-ND◆	1.15	9.99	77.70	2MJ-0006A110
Shielded Right Angle Receptacles					
3-Pos. Right Angle Receptacle	275-1046-ND	1.02	8.91	69.30	2MJ-0101A120
4-Pos. Right Angle Receptacle	275-1047-ND◆	1.05	9.18	71.40	2MJ-0102A120
5-Pos. Right Angle Receptacle	275-1048-ND◆	1.09	9.45	73.50	2MJ-0103A120
6-Pos. Right Angle Receptacle	275-1049-ND◆	1.15	9.99	77.70	2MJ-0104A120
7-Pos. Right Angle Receptacle	275-1050-ND◆	1.27	11.07	86.10	2MJ-0105A120
In-Line Plug					
3-Pos. In-Line Plug	275-1028-ND◆	1.02	8.91	69.30	62000-3P
4-Pos. In-Line Plug	275-1029-ND◆	1.09	9.45	73.50	62000-4P
5-Pos. In-Line Plug	275-1030-ND	1.15	9.99	77.70	62000-5P
7-Pos. In-Line Plug	275-1032-ND	1.29	11.21	87.15	62000-7P
8-Pos. In-Line Plug	275-1033-ND◆	1.36	11.88	92.40	62000-8P
In-Line Jack					
3-Pos. In-Line Jack	275-1034-ND	1.26	10.94	85.05	63000-3P
4-Pos. In-Line Jack	275-1035-ND	1.32	11.48	89.25	63000-4P
5-Pos. In-Line Jack	275-1036-ND	1.40	12.15	94.50	63000-5P
6-Pos. In-Line Jack	275-1037-ND◆	1.46	12.69	98.70	63000-6P
7-Pos. In-Line Jack	275-1038-ND	1.53	13.37	103.95	63000-7P
8-Pos. In-Line Jack	275-1039-ND◆	1.60	13.91	108.15	63000-8P

Description	Digi-Key Part No.	Pricing			Singatron Part No.
		1	10	100	
Panel Mount Mini DIN Connectors With 6" (15.24cm) Lead Wire (26AWG)					
3-Pos. Recept.	275-1100-ND◆	1.71	14.85	115.50	2MJ-20116000
4-Pos. Recept.	275-1101-ND◆	1.95	17.01	132.30	2MJ-20216000
5-Pos. Recept.	275-1102-ND	2.14	18.63	144.90	2MJ-20316000
6-Pos. Recept.	275-1103-ND◆	2.33	20.25	157.50	2MJ-20416000
7-Pos. Recept.	275-1104-ND	2.42	21.06	163.80	2MJ-20516000
8-Pos. Recept.	275-1105-ND◆	2.42	21.06	163.80	2MJ-20616000

◆ ***RoHS Compliant***

Panel Mount Receptacle, Plastic

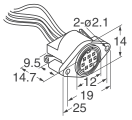

SINGATRON Circular DIN Connectors

APPLICATIONS:

Circular DIN connectors combine low contact resistance with relatively high ampacity which make them an excellent choice for signal or power applications. Ideal for use with computers, peripheral devices, office equipment, power supplies, etc., their low cost and compact, durable design have made them a proven value.

GENERAL SPECIFICATIONS:

• **Ratings:** 100VAC 1A maximum, 24VDC 2A maximum • **Insulation Resistance:** minimum 100MΩ @ 500VDC • **Voltage Withstand:** 1000VAC, 1 minute • **Contact Resistance:** Pins - 10mΩ @ maximum, Shell - 50mΩ maximum (All accessories included)

Panel Mount Receptacle

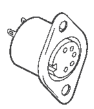

Right Angle Receptacle

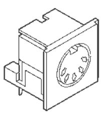

Front Shielded Right Angle Receptacle

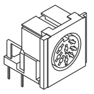

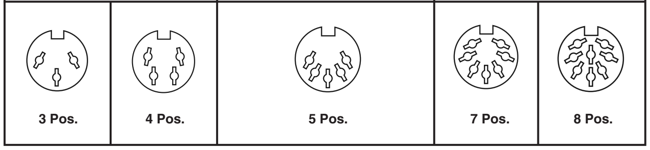

In-Line Jack

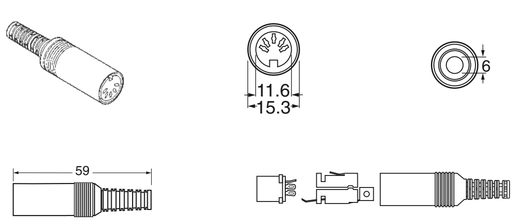

Description	Digi-Key Part No.	Pricing			Singatron Part No.
		1	10	100	
Panel Mount Receptacles					
3-Pos. Panel Mount Receptacle	275-1012-ND◆	.73	6.35	49.35	YE-1363
5-Pos. Panel Mount Receptacle	275-1014-ND◆	.82	7.16	55.65	YE-1365A
8-Pos. Panel Mount Receptacle	275-1017-ND	1.01	8.78	68.25	YE-1368A
Right Angle Receptacles					
5-Pos. Right Angle Receptacle	275-1019-ND◆	.78	6.75	52.50	2DJ-00600003
8-Pos. Right Angle Receptacle	275-1022-ND	1.43	12.42	96.60	2DJ-0108PA03
Right Angle Front Shielded Receptacles					
7-Pos. Right Angle Front Shielded	275-1026-ND	1.52	13.23	102.90	2DJ-0077PSA2
8-Pos. Right Angle Front Shielded	275-1027-ND	1.71	14.85	115.50	2DJ-0108PSA2
In-Line Jack					
3-Pos. In-Line Jack	275-1006-ND	.76	6.62	51.45	YE-1333
4-Pos. In-Line Jack	275-1007-ND	.84	7.29	56.70	YE-1334

◆ ***RoHS Compliant***

Fig. 1

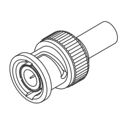

Fig. 2

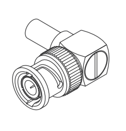

Fig. 3

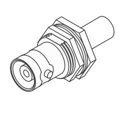

Fig. 4

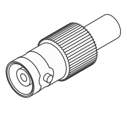

Fig. 5

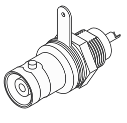

Fig. 6

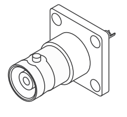

Fig. 7

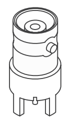

Fig. 8

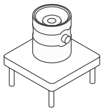

Fig. 9

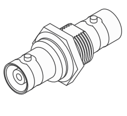

Fig. 10

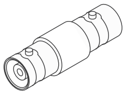

Fig. 11

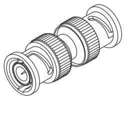

Fig. 12

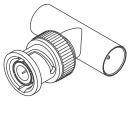

Fig. 13

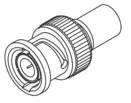

Fig. 14

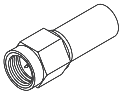

Fig. 15

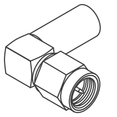

Fig. 16

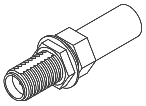

Fig. 17

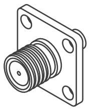

Panel Mount

BNC Connectors and Reversed Polarized Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Amphenol Part No.
1	Plug, Straight	58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Nickel	Crimp	Crimp	ACX1000-ND	2.11	1.32	1.17	112116
	Plug, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1001-ND*	3.32	2.08	1.84	112116RP
	Plug, Straight	RG 55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1002-ND	2.09	1.31	1.16	112514
	Plug, Straight	LMR200™, B7807A	Gold	Nickel	Crimp	Crimp	ACX1003-ND	2.48	1.55	1.37	112597
	Plug, Straight	RG 59, 62, 140, 210	Gold	Nickel	Crimp	Crimp	ACX1004-ND	2.12	1.32	1.17	112119
	Plug, Straight	RG 59, U-20AWG	Gold	Nickel	Crimp	Crimp	ACX1005-ND	2.08	1.30	1.15	112507
	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1006-ND	2.68	1.67	1.48	112132
	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1007-ND*	3.35	2.09	1.86	112132RP
	Plug, Straight	316, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1008-ND	2.68	1.67	1.48	112512
	Plug, Straight	RG 179, 187, B9221	Gold	Nickel	Crimp	Crimp	ACX1009-ND	2.68	1.67	1.48	112133
	Plug, Straight	179, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1010-ND	2.70	1.69	1.50	112644
	Plug, Straight	RG 178, 196	Gold	Nickel	Crimp	Crimp	ACX1011-ND	3.04	1.90	1.68	112516
	Plug, Straight	RG 8, 8A, 213, 393	Gold	Nickel	Crimp	Crimp	ACX1012-ND	6.57	4.11	3.64	112562
	Plug, Straight	RG 214	Gold	Nickel	Crimp	Crimp	ACX1013-ND	6.57	4.11	3.64	112589
	Plug, Straight	RG 8X, LMR240™, B7808A	Gold	Nickel	Crimp	Crimp	ACX1014-ND	2.21	1.38	1.23	112533
	Plug, Straight	RG 8X, LMR240, B7808A	Gold	Nickel	Crimp	Crimp	ACX1015-ND*	3.32	2.08	1.84	112533RP
	Plug, Straight	B9913, LMR400™, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1016-ND	6.57	4.11	3.64	112563
	Plug, Straight	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1017-ND*	6.85	4.28	3.79	112563RP
	Plug, Straight	RG 6, 143, 212	Gold	Nickel	Crimp	Crimp	ACX1018-ND	2.18	1.37	1.21	112508
	Plug, Straight	RG B1694A, B9248	Gold	Nickel	Crimp	Crimp	ACX1019-ND	2.19	1.37	1.21	112565
	Plug, Straight	RG 6 Plenum, B1695A	Gold	Nickel	Crimp	Crimp	ACX1020-ND	2.23	1.39	1.23	112519
	Plug, Straight	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1021-ND	3.07	1.92	1.70	112551
	Plug, Straight	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1022-ND	3.07	1.92	1.70	112552
	Plug, Straight	.250 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1023-ND	2.76	1.73	1.53	112710
2	Plug, Right Angle	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Solder	ACX1024-ND	4.62	2.89	2.56	112162
	Plug, Right Angle	55, 142A, 223, 400	Gold	Nickel	Crimp	Solder	ACX1025-ND	5.66	3.54	3.13	112526
	Plug, Right Angle	RG 8, 8A, 213, 393	Gold	Nickel	Crimp	Solder	ACX1026-ND	6.84	4.28	3.79	112594
	Plug, Right Angle	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Solder	ACX1027-ND	6.84	4.28	3.79	112596
	Plug, Right Angle	RG 174, 188A, 316	Gold	Nickel	Crimp	Solder	ACX1028-ND	5.04	3.15	2.79	112178
	Plug, Right Angle	RG 179, 187A	Gold	Nickel	Crimp	Solder	ACX1029-ND	4.99	3.12	2.76	112179
3	Bulkhead Jack	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1030-ND	4.42	2.76	2.45	112202
	Bulkhead Jack	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1031-ND*	3.88	2.43	2.15	112202RP
	Bulkhead Jack	55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1032-ND	4.38	2.74	2.43	112505
	Bulkhead Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1033-ND	4.38	2.74	2.43	112234
	Bulkhead Jack	316, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1034-ND	4.38	2.74	2.43	112517
	Bulkhead Jack	RG 179, 187A, B9221	Gold	Nickel	Crimp	Crimp	ACX1035-ND	4.38	2.74	2.43	112235
	Bulkhead Jack	RG 178B, 196A	Gold	Nickel	Crimp	Crimp	ACX1036-ND	7.11	4.44	3.94	112522
	Bulkhead Jack	.141 Semi-Rigid, 402, U	Gold	Nickel	Solder	Solder	ACX1037-ND	4.56	2.85	2.53	112581
	Bulkhead Jack	.085 Semi-Rigid, 405, U	Gold	Nickel	Solder	Solder	ACX1038-ND	4.56	2.85	2.53	112580
4	Jack, Straight	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1039-ND	2.70	1.69	1.50	112144
	Jack, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1040-ND*	2.70	1.69	1.50	112144RP
	Jack, Straight	RG 55, 142, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1041-ND	2.70	1.69	1.50	112513
	Jack, Straight	RG 59, 62, 140, 210	Gold	Nickel	Crimp	Crimp	ACX1042-ND	2.68	1.67	1.48	112147
	Jack, Straight	RG 59, U-20AWG	Gold	Nickel	Crimp	Crimp	ACX1043-ND	2.70	1.69	1.50	112649
	Jack, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1044-ND	2.80	1.75	1.55	112160
	Jack, Straight	RG 179, 187, B9221	Gold	Nickel	Crimp	Crimp	ACX1045-ND	2.80	1.75	1.55	112161
5	Bulkhead Receptacle, 50Ω	—	Gold	Nickel	—	—	ACX1046-ND	2.34	1.46	1.30	112424
	Bulkhead Receptacle	—	Gold	Nickel	—	—	ACX1047-ND*	7.83	4.90	4.42	112424RP
	Bulkhead Receptacle, Isolated, 50Ω	—	Gold	Nickel	—	—	ACX1048-ND	3.94	2.46	2.18	112431
6	Panel Receptacle	—	Gold	Nickel	—	—	ACX1049-ND	4.30	2.69	2.38	112290
7	PCB Receptacle, 4-Legs	—	Gold	Nickel	—	—	ACX1050-ND	2.31	1.44	1.28	112538
	PCB Receptacle, 4-Legs, Short Body	—	Gold	Nickel	—	—	ACX1051-ND	2.77	1.73	1.53	112404
	PCB Receptacle Jack, 3-Legs	—	Gold	Nickel	—	—	ACX1052-ND	4.81	3.01	2.67	112483
8	PCB Receptacle Jack, 50Ω, Vertical	—	Gold	Nickel	—	—	ACX1053-ND	3.68	2.30	2.04	112536
9	Adapter, Bulkhead, Jack-Jack, 50Ω	—	Gold	Nickel	—	—	ACX1054-ND	3.98	2.49	2.21	112437
	Adapter, Bulkhead, Jack-Jack, 75Ω	—	Gold	Nickel	—	—	ACX1055-ND	3.98	2.49	2.21	112438
	Adapter, Bulkhead, Jack-Jack, Isolated, 50Ω	—	Gold	Nickel	—	—	ACX1056-ND	5.60	3.50	3.10	112439
	Adapter, Bulkhead, Jack-Jack, Isolated, 75Ω	—	Gold	Nickel	—	—	ACX1057-ND	5.60	3.50	3.10	112440
	Adapter, Bulkhead, Jack-Jack, Isolated, 50Ω	—	Gold	Nickel	—	—	ACX1058-ND	4.38	2.74	2.43	112443
	Adapter, Bulkhead, Jack-Jack, Isolated, 75Ω	—	Gold	Nickel	—	—	ACX1059-ND	4.38	2.74	2.43	112444
10	Adapter, Jack-Jack, 50Ω	—	Gold	Nickel	—	—	ACX1060-ND	2.80	1.75	1.55	112445
	Adapter, Jack-Jack, 75Ω	—	Gold	Nickel	—	—	ACX1061-ND	2.80	1.75	1.55	112446
11	Adapter, Plug-Plug, 50Ω	—	Gold	Nickel	—	—	ACX1062-ND	4.67	2.92	2.58	112447
	Adapter, Plug-Plug, 75Ω	—	Gold	Nickel	—	—	ACX1063-ND	4.67	2.92	2.58	112448
12	"T" Adapter, Jack-Plug-Jack, 50Ω	—	Gold	Nickel	—	—	ACX1064-ND	2.94	1.84	1.63	112461
	"T" Adapter, Jack-Plug-Jack, 75Ω	—	Gold	Nickel	—	—	ACX1065-ND	3.29	2.06	1.82	112462
13	Terminator Plug, 50Ω	—	Gold	Nickel	—	—	ACX1066-ND	2.80	1.75	1.55	202103
	Terminator Plug, 75Ω	—	Gold	Nickel	—	—	ACX1067-ND	2.80	1.75	1.55	202105
	Shorting Plug	—	Gold	Nickel	—	—	ACX1069-ND	3.67	2.30	2.03	202114
—	Male Cap with Chain (For Receptacles)	—	—	Nickel	—	—	ACX1068-ND	2.68	1.67	1.48	202100

** Reverse Polarity*

SMA and Reverse Polarized SMA Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Amphenol Part No.
14	Direct Solder Plug	.141 Semi-Rigid, 402, U	—	Gold	Solder	Solder	ACX1175-ND	2.06	1.29	1.14	132100
	Semi-Rigid Plug	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1176-ND	3.77	2.36	2.09	132102
	Semi-Rigid Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1177-ND	3.77	2.36	2.09	132101
	Semi-Rigid Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1178-ND*	4.60	2.88	2.55	132101RP
	Semi-Rigid Plug	.250 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1179-ND	6.05	3.78	3.35	132296
	Plug, Straight	RG 58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Gold	Crimp	Solder	ACX1192-ND	4.37	2.73	2.42	132113
	Plug, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Solder	ACX1193-ND*	5.48	3.42	3.03	132113RP
	Plug, Straight	RG 55, 142A, 223, 400	Gold	Gold	Crimp	Solder	ACX1194-ND	4.38	2.74	2.43	132195
	Plug, Straight	55, 142A, 223, 400	Gold	Gold	Crimp	Solder	ACX1195-ND*	5.01	3.13	2.77	132195RP
	Plug, Straight	LMR200™, B7807A	Gold	Gold	Crimp	Solder	ACX1196-ND	4.52	2.82	2.50	132234
	Plug, Straight	LMR200, B7807A	Gold	Gold	Crimp	Solder	ACX1197-ND*	5.45	3.40	3.02	132234RP
	Plug, Straight	RG 8X, LMR240™, B7808A	Gold	Gold	Crimp	Solder	ACX1198-ND	7.22	4.51	4.00	132231
	Plug, Straight	RG 8X, LMR240, B7808A	Gold	Gold	Crimp	Solder	ACX1199-ND*	8.69	5.43	4.82	132231RP
	Plug, Straight	B9913, LMR400™, B7810A, B8214	Gold	Gold	Crimp	Solder	ACX1200-ND	8.23	5.15	4.56	132298
	Plug, Straight	B9913, LMR400, B7810A, B8214	Gold	Gold	Crimp	Solder	ACX1201-ND*	9.59	5.99	5.31	132298RP
	Plug, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Solder	ACX1202-ND	4.37	2.73	2.42	132114
	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Solder	ACX1203-ND*	6.84	4.27	3.79	132114RP
	Plug, Straight	316, U Double Braided	Gold	Gold	Crimp	Solder	ACX1204-ND	4.29	2.68	2.38	132178
	Plug, Straight	316, U Double Braided	Gold	Gold	Crimp	Solder	ACX1205-ND*	5.94	3.71	3.29	132178RP
	Plug, Straight	RG 178B, 196A	Gold	Gold	Crimp	Solder	ACX1206-ND	6.74	4.21	3.73	132193
15	Right Angle, Direct Solder Plug	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1180-ND	6.90	4.31	3.82	132112
	Right Angle, Direct Solder Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1181-ND	6.90	4.31	3.82	132111
	Right Angle, Crimp Plug	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Solder	ACX1207-ND	7.92	4.95	4.38	132122
	Right Angle, Crimp Plug	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Solder	ACX1208-ND*	7.48	4.67	4.14	132122RP
	Right Angle, Crimp Plug	RG 55, 142, 223, 400	Gold	Gold	Crimp	Solder	ACX1209-ND	7.90	4.94	4.38	132194
	Right Angle, Crimp Plug	LMR200, B7807A	Gold	Gold	Crimp	Solder	ACX1210-ND	7.39	4.62	4.09	132235

** Reverse Polarity*   ‡ Nut and Washer not included

(Continued)

Fig. 18

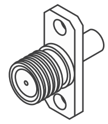

Panel Mount

Fig. 19

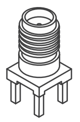

Fig. 20

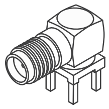

Fig. 21

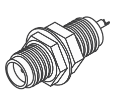

Fig. 22

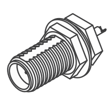

Fig. 23

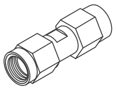

Adapter

Fig. 24

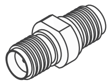

Adapter

Fig. 25

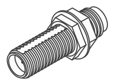

Adapter

Fig. 26

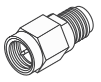

Adapter

Fig. 27

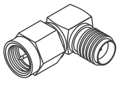

Adapter

Fig. 28

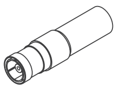

Fig. 29

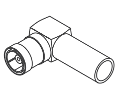

Fig. 30

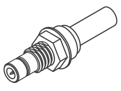

Fig. 31

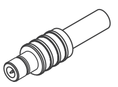

Fig. 32

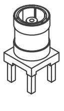

Fig. 33

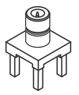

Fig. 34

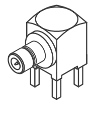

Right Angle

Fig. 35

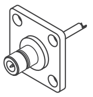

SMA and Reverse Polarized SMA Connectors *(Cont.)*

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Amphenol Part No.
15	Right Angle, Crimp Plug	LMR200™, B7807A	Gold	Gold	Crimp	Crimp	ACX1211-ND*	7.19	4.50	3.98	132235RP
	Right Angle, Crimp Plug	RG 8X, LMR240™, B7808A	Gold	Gold	Crimp	Crimp	ACX1212-ND	10.40	6.50	5.76	132239
	Right Angle, Crimp Plug	B9913, LMR400™, B7810A, B8214	Gold	Gold	Crimp	Crimp	ACX1213-ND	8.23	5.14	4.56	132299
	Right Angle, Crimp Plug	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1214-ND	7.92	4.95	4.38	132123
	Right Angle, Crimp Plug	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1215-ND*	7.48	4.67	4.14	132123RP
	Right Angle, Crimp Plug	316 Double Braided	Gold	Gold	Crimp	Crimp	ACX1216-ND	7.92	4.95	4.38	132182
	Right Angle, Crimp Plug	RG 178B, 196A	Gold	Gold	Crimp	Crimp	ACX1217-ND	7.35	4.59	4.07	132173
16	Bulkhead, Crimp Jack	58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Gold	Crimp	Crimp	ACX1218-ND	6.15	3.84	3.41	132118
	Bulkhead, Crimp Jack	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1219-ND*	6.01	3.76	3.33	132118RP
	Bulkhead, Crimp Jack	RG 55, 142, 223, 400	Gold	Gold	Crimp	Crimp	ACX1220-ND	6.09	3.81	3.37	132191
	Bulkhead, Crimp Jack	RG 55, 142, 223, 400	Gold	Gold	Crimp	Crimp	ACX1221-ND*	6.01	3.76	3.33	132191RP
	Bulkhead, Crimp Jack	RG 8X, LMR240, B7808A	Gold	Gold	Crimp	Crimp	ACX1222-ND	6.16	3.85	3.41	132241
	Bulkhead, Crimp Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1223-ND	7.19	4.49	3.98	132119
	Bulkhead, Crimp Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1224-ND*	5.71	3.57	3.16	132119RP
	Straight, Crimp Jack‡	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1225-ND	5.91	3.69	3.27	132116
	Straight, Crimp Jack‡	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1226-ND*	4.79	3.00	2.66	132116RP
	Straight, Crimp Jack‡	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1227-ND	5.84	3.65	3.24	132117
	Straight, Crimp Jack‡	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1228-ND*	4.79	3.00	2.66	132117RP
	Straight, Crimp Jack‡	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1229-ND	4.86	3.04	2.69	132198
	Direct Solder, Bulkhead Jack	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1182-ND	7.06	4.41	3.91	132106
	Direct Solder, Bulkhead Jack	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1183-ND	7.06	4.41	3.91	132105
	Direct Solder, Bulkhead Jack	.250 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1184-ND	9.59	5.99	5.31	132346
17	Semi-Rigid, Panel Jack, 4-Hole	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1185-ND	6.94	4.34	3.84	132107
	Semi-Rigid, Panel Jack, 4-Hole	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1186-ND	6.94	4.34	3.84	132108
	Panel Jack	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1187-ND*	5.25	3.29	2.97	132108RP
	Receptacle, 4-Hole Flange, PTFE	—	Gold	Gold	—	—	ACX1238-ND	7.60	4.75	4.21	132146
—	Receptacle, 2-Hole Flange, PTFE	—	Gold	Gold	—	—	ACX1239-ND	7.92	4.95	4.38	132147
18	Semi-Rigid, Jack, 2-Hole Flange	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1188-ND	6.94	4.34	3.84	132109
	Semi-Rigid, Jack, 2-Hole Flange	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1189-ND*	5.03	3.15	2.85	132109RP
	Direct Solder, Jack, 2-Hole Flange	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1190-ND	6.48	4.05	3.59	132110
	Direct Solder, Jack, 2-Hole Flange	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1191-ND*	5.96	3.73	3.37	132110RP
19	PCB, Jack (Extended Legs)	—	Gold	Gold	—	—	ACX1230-ND	5.12	3.20	2.83	132134
	PCB, Jack (Extended Legs)	—	Gold	Gold	—	—	ACX1231-ND*	4.11	2.57	2.28	132134RP
20	Right Angle, PCB, Jack	—	Gold	Gold	—	—	ACX1232-ND	8.64	5.40	4.79	132136
	Right Angle, PCB, Jack	—	Gold	Gold	—	—	ACX1233-ND*	8.04	5.03	4.45	132136RP
	Right Angle, Bulkhead, PCB, Jack	—	Gold	Gold	—	—	ACX1234-ND	11.70	7.31	6.48	132203
	Right Angle, Bulkhead, PCB, Jack	—	Gold	Gold	—	—	ACX1235-ND*	10.20	6.37	5.65	132203RP
21	Bulkhead, Receptacle, Front Mount	—	Gold	Gold	—	—	ACX1236-ND	6.39	4.00	3.54	132137
22	Bulkhead, Receptacle, Rear Mount	—	Gold	Gold	—	—	ACX1237-ND	5.91	3.70	3.28	132139
23	Plug to Plug	—	Gold	Gold	—	—	ACX1240-ND	7.02	4.39	3.89	132168
	Plug to R-P Plug	—	Gold	Gold	—	—	ACX1241-ND*	12.79	7.99	7.08	132168RP
24	Jack to Jack	—	Gold	Gold	—	—	ACX1242-ND	5.72	3.58	3.17	132169
	Jack to R-P Jack	—	Gold	Gold	—	—	ACX1243-ND*	5.11	3.20	2.83	132169RP
25	Bulkhead, Jack to Jack	—	Gold	Gold	—	—	ACX1244-ND	8.77	5.48	4.86	132170
	Bulkhead, Jack to R-P Jack	—	Gold	Gold	—	—	ACX1245-ND*	12.67	7.92	7.01	132170RP
26	Plug to Jack	—	Gold	Gold	—	—	ACX1246-ND	7.10	4.44	3.93	132171
	R-P Jack to Plug	—	Gold	Gold	—	—	ACX1247-ND*	6.39	4.00	3.54	132171RP
	Jack to R-P Plug	—	Gold	Gold	—	—	ACX1248-ND*	6.39	4.00	3.54	132171RP-10
27	Plug to Jack, Right Angle	—	Gold	Gold	—	—	ACX1249-ND	10.32	6.45	5.72	132172
—	Plug Cap (Less Chain)	—	—	Gold	—	—	ACX1250-ND	1.97	1.23	1.09	202112
—	Terminator Plug, 50Ω	—	Gold	Gold	—	—	ACX1251-ND	3.20	2.00	1.77	132360
—	Terminator Jack, 50Ω	—	Gold	Gold	—	—	ACX1252-ND	5.37	3.36	2.97	132361

* Reverse Polarity ‡ Nut and Washer not included

SMB and MINI 75 Ohm SMB Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Amphenol Part No.
28	Plug, Straight	RG 58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Gold	Crimp	Crimp	ACX1278-ND	6.05	3.78	3.35	142255
	Plug, Straight	RG 55, 142, 223, 400	Gold	Gold	Crimp	Crimp	ACX1279-ND	6.75	4.22	3.74	142220
	Plug, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1280-ND	6.46	4.04	3.58	142186
	Plug, Straight, Mini 75Ω	179, 187,	Gold	Gold	Crimp	Crimp	ACX1281-ND	6.14	3.84	3.40	142186-75
	Plug, Straight	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1282-ND	6.52	4.08	3.61	142187
	Plug, Straight, Mini 75Ω	179, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1283-ND	6.08	3.80	3.37	142187-75
	Plug, Straight	RG 178, 196	Gold	Gold	Crimp	Crimp	ACX1284-ND	6.52	4.08	3.61	142229
	Direct Solder Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1285-ND	6.05	3.78	3.35	142212
	Direct Solder Plug, Mini 75Ω	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1286-ND	5.14	3.22	2.91	142212-75
	Plug, Straight, Mini 75Ω	AT&T735A, B735A1	Gold	Gold	Crimp	Crimp	ACX1287-ND	6.51	4.07	3.61	142222-75
29	Right Angle, Crimp Plug	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1288-ND	7.86	4.91	4.36	142206
	Right Angle, Crimp Plug	55, 142A, 223, 400	Gold	Gold	Crimp	Crimp	ACX1289-ND	18.27	11.42	10.21	142322
	Right Angle, Crimp Plug	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1290-ND	5.76	3.60	3.19	142194
	Right Angle, Crimp Plug, Mini 75Ω	179, 187, B9221	Gold	Gold	Crimp	Crimp	ACX1291-ND	6.97	4.35	3.86	142194-75
	Right Angle, Crimp Plug	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1292-ND	7.92	4.95	4.38	142176
	Right Angle, Crimp Plug, Mini 75Ω	179, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1293-ND	7.03	4.40	3.89	142176-75
	Right Angle, Crimp Plug	RG 178, 196	Gold	Gold	Crimp	Crimp	ACX1294-ND	8.30	5.18	4.59	142195
	Right Angle, Direct Solder, Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1295-ND	7.19	4.50	3.98	142214
	Right Angle, Direct Solder, Plug	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1296-ND	19.19	11.99	10.73	142329
	Right Angle, Crimp Plug, Mini 75Ω	AT&T735A, B735A1	Gold	Gold	Crimp	Crimp	ACX1297-ND	7.16	4.48	3.97	142221-75
30	Bulkhead, Crimp Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1298-ND	4.75	2.97	2.63	142191
	Bulkhead, Crimp Jack, Mini 75Ω	179, 187, B9221	Gold	Gold	Crimp	Crimp	ACX1299-ND	4.79	3.00	2.66	142191-75
	Bulkhead, Crimp Jack	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1300-ND	4.79	3.00	2.66	142192
	Bulkhead, Crimp Jack, Mini 75Ω	179, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1301-ND	4.57	2.85	2.55	142192-75
	Bulkhead, Crimp Jack	RG 178B, 196A	Gold	Gold	Crimp	Crimp	ACX1302-ND	4.79	3.00	2.66	142231
	Bulkhead, Direct Solder Jack	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1303-ND	12.67	7.92	7.01	142301
	Bulkhead, Receptacle Jack	174, 188A, 316, B7805A, LMR100	Gold	Gold	—	—	ACX1309-ND	3.65	2.28	2.02	142154
31	Straight Jack	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1304-ND	4.14	2.59	2.29	142189
	Straight Jack, Mini 75Ω	179, 187, B9221	Gold	Gold	Crimp	Crimp	ACX1305-ND	4.18	2.61	2.32	142189-75
	Straight Jack	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1306-ND	3.93	2.46	2.18	142190
	Straight Jack, Mini 75Ω	179, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1307-ND	4.18	2.61	2.32	142190-75
	Straight Jack	178B, 196A	Gold	Gold	Crimp	Crimp	ACX1308-ND	5.99	3.74	3.32	142241
32	PCB Straight Plug	—	Gold	Gold	—	—	ACX1310-ND	5.72	3.58	3.17	142134
	PCB Straight Plug, Mini 75Ω	—	Gold	Gold	—	—	ACX1311-ND	5.75	3.60	3.19	142134-75
33	PCB Jack	—	Gold	Gold	—	—	ACX1312-ND	2.93	1.83	1.63	142138
	PCB Jack, Mini 75Ω	—	Gold	Gold	—	—	ACX1313-ND	3.08	1.93	1.71	142138-75
	PCB Bulkhead Receptacle	—	Gold	Gold	—	—	ACX1314-ND	5.21	3.26	2.89	142210
	PCB Bulkhead Receptacle, Mini 75Ω	—	Gold	Gold	—	—	ACX1315-ND	5.17	3.23	2.86	142210-75
34	PCB, Jack	—	Gold	Gold	—	—	ACX1316-ND	5.24	3.27	2.90	142146
	PCB, Jack, Mini 75Ω	—	Gold	Gold	—	—	ACX1317-ND	5.71	3.57	3.16	142146-75
	PCB, Bulkhead, Jack	—	Gold	Gold	—	—	ACX1318-ND	7.35	4.59	4.07	142184
	PCB, Bulkhead, Jack, Mini 75Ω	—	Gold	Gold	—	—	ACX1319-ND	7.38	4.61	4.09	142184-75
35	Panel Receptacle, 4-Hole Flange	—	Gold	Gold	—	—	ACX1320-ND	4.48	2.80	2.53	142162
—	Panel Receptacle, 2-Hole Flange	—	Gold	Gold	—	—	ACX1321-ND	5.29	3.30	2.93	142166

Amphenol®Connex RF Connectors

Fig. 1

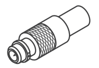

Fig. 2

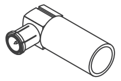

Fig. 3

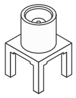

Fig. 4

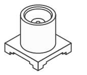

Fig. 5

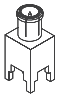

Fig. 6

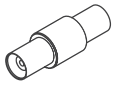

Fig. 7

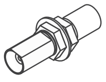

Fig. 8

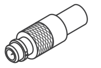

Fig. 9

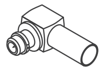

Fig. 10

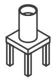

Fig. 11

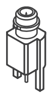

Fig. 12

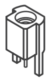

Fig. 13

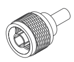

Fig. 14

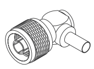

Fig. 15

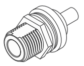

Fig. 16

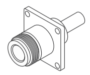

Fig. 17

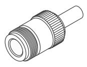

Fig. 18

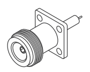

Fig. 19

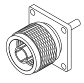

Fig. 20

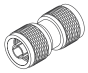

Fig. 21

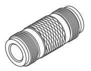

Fig. 22

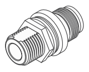

Fig. 23

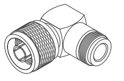

MCX Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Inner	Digi-Key Part No.	Price Each 1	50	100	Amphenol Part No.
1	Plug, Straight	RG 58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Gold	Crimp	Crimp	ACX1253-ND	4.99	3.12	2.79	252180
	Plug, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1254-ND	4.86	3.04	2.72	252103
	Plug, Straight	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1255-ND	5.34	3.34	2.99	252121
	Plug, Straight	RG 178, 196	Gold	Gold	Crimp	Crimp	ACX1256-ND	7.32	4.58	4.09	252127
	Direct Solder Plug, Straight	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1257-ND	4.61	2.88	2.58	252107
2	Plug, Right Angle	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1258-ND	7.21	4.51	4.03	252115
	Plug, Right Angle	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1259-ND	6.43	4.02	3.60	252102
	Plug, Right Angle	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1260-ND	6.43	4.02	3.60	252119
	Plug, Right Angle	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1261-ND	6.15	3.84	3.44	252109
3	P.C.B. Receptacle Jack	—	Gold	Gold	—	—	ACX1262-ND	5.53	3.45	3.09	252105
4	P.C.B. Receptacle, Surface Mount	—	Gold	Gold	—	—	ACX1263-ND	5.29	3.31	2.96	252117
5	P.C.B. Receptacle Plug	—	Gold	Gold	—	—	ACX1264-ND	5.98	3.74	3.34	252153
6	Jack to Jack Adapter	—	Gold	Gold	—	—	ACX1265-ND	14.77	9.23	8.26	252169
7	Bulkhead, Jack to Jack Adapter	—	Gold	Gold	—	—	ACX1266-ND	7.89	4.93	4.41	252171

MMCX Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Inner	Digi-Key Part No.	Price Each 1	50	100	Amphenol Part No.
8	Semi-Rigid Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1267-ND	4.32	2.70	2.42	262112
	Plug, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1268-ND	3.99	2.50	2.23	262101
	Plug, Straight	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1269-ND	3.99	2.50	2.23	262110
	Plug, Straight	RG 178B, 196A	Gold	Gold	Crimp	Crimp	ACX1270-ND	3.99	2.50	2.23	262100
9	Right Angle, Semi-Rigid Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1271-ND	5.96	3.73	3.33	262113
	Right Angle, Plug	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1272-ND	5.10	3.19	2.85	262103
	Right Angle, Plug	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1273-ND	5.10	3.19	2.85	262111
	Right Angle, Plug	RG 178B, 196A	Gold	Gold	Crimp	Crimp	ACX1274-ND	5.10	3.19	2.85	262102
10	P.C.B. Jack	—	Gold	Gold	—	—	ACX1275-ND	6.52	4.08	3.65	262104
11	Edgecard Mount Plug	—	Gold	Gold	—	—	ACX1276-ND	5.10	3.19	2.85	262106
12	Edgecard, Jack	—	Gold	Gold	—	—	ACX1277-ND	4.59	2.87	2.56	262107

N and Reverse Polarized N Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Inner	Digi-Key Part No.	Price Each 1	50	100	Amphenol Part No.
13	Plug, Straight	RG 58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1118-ND	5.43	3.40	3.01	172100
	Plug, Straight	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1119-ND*	6.35	3.97	3.52	172100RP
	Plug, Straight	RG 55, 142, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1120-ND	5.41	3.38	3.00	172142
	Plug, Straight	LMR200™, B7807A	Gold	Nexcote	Crimp	Crimp	ACX1121-ND	5.18	3.24	2.87	172214
	Plug, Straight	LMR200, B7807A	Gold	Nexcote	Crimp	Crimp	ACX1122-ND*	5.36	3.35	3.03	172214RP
	Plug, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1123-ND	7.26	4.54	4.02	172128
	Plug, Straight	RG 316, U Double Braided	Gold	Nexcote	Crimp	Crimp	ACX1124-ND	7.80	4.87	4.32	172171
	Plug, Straight	RG 8, 8A, 213, 393	Gold	Nexcote	Crimp	Crimp	ACX1125-ND	5.88	3.67	3.25	172102
	Plug, Straight	RG 214	Gold	Nexcote	Crimp	Crimp	ACX1126-ND	5.83	3.64	3.23	172166
	Plug, Straight	RG 8X, LMR240™, B7808A	Gold	Nexcote	Crimp	Crimp	ACX1127-ND	5.88	3.67	3.25	172135
	Plug, Straight	RG 8X, LMR240, B7808A	Gold	Nexcote	Crimp	Crimp	ACX1128-ND*	6.29	3.93	3.48	172135RP
	Plug, Straight	B9913, LMR400™, B7810A, B8214	Gold	Nexcote	Crimp	Crimp	ACX1129-ND	6.04	3.78	3.35	172102H243
	Plug, Straight	B9913, LMR400, B7810A, B8214	Gold	Nexcote	Crimp	Crimp	ACX1130-ND*	6.80	4.25	3.77	172102H243RP
	Plug, Straight	LMR600™	Gold	Nexcote	Crimp	Crimp	ACX1131-ND	13.19	8.25	7.31	172206
	Direct Solder Plug	.141 Semi-Rigid, 402, U	Gold	Nexcote	Solder	Solder	ACX1132-ND	6.58	4.12	3.65	172133
	Direct Solder Plug	.085 Semi-Rigid, 405, U	Gold	Nexcote	Solder	Solder	ACX1133-ND	6.78	4.24	3.75	172211
	Direct Solder Plug	.250 Semi-Rigid	Gold	Nexcote	Solder	Solder	ACX1134-ND	6.80	4.25	3.77	172139
14	Right Angle, Plug	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1135-ND	9.69	6.06	5.48	172177
	Right Angle, Plug	RG 55, 142, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1136-ND	10.93	6.83	6.05	172178
	Right Angle, Plug	RG 174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1137-ND	11.38	7.11	6.30	172180
	Right Angle, Plug	RG 8, 8A, 213, 393, B9913, MR400	Gold	Nexcote	Crimp	Crimp	ACX1138-ND	12.77	7.98	7.08	172176
	Right Angle, Plug	RG 214	Gold	Nexcote	Crimp	Crimp	ACX1139-ND	11.83	7.39	6.55	172167
15	Bulkhead, Jack	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1140-ND	8.26	5.16	4.57	172106
	Bulkhead, Jack	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1141-ND*	7.79	4.87	4.36	172106RP
	Bulkhead, Jack	RG 55, 142, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1142-ND	7.69	4.81	4.26	172132
	Bulkhead, Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1143-ND	8.21	5.13	4.55	172129
	Bulkhead, Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1144-ND*	7.74	4.83	4.28	172129RP
	Bulkhead, Jack	RG 316, U Double Braided	Gold	Nexcote	Crimp	Crimp	ACX1145-ND	8.21	5.13	4.55	172165
	Bulkhead, Jack	RG 8X, LMR240, B7808A	Gold	Nexcote	Crimp	Crimp	ACX1146-ND	7.76	4.85	4.30	172149
	Bulkhead, Direct Solder Jack	.141 Semi-Rigid, 402, U	Gold	Nexcote	Solder	Solder	ACX1147-ND	9.50	5.94	5.26	172137
	Bulkhead, Direct Solder Jack	.085 Semi-Rigid, 405, U	Gold	Nexcote	Solder	Solder	ACX1148-ND	9.42	5.89	5.22	172138
	Bulkhead, Direct Solder Jack	.250 Semi-Rigid	Gold	Nexcote	Solder	Solder	ACX1149-ND	9.59	5.99	5.31	172153
16	Panel Jack	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1150-ND	8.30	5.18	4.59	172208
	Panel Jack	RG 55, 142A , 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1151-ND	10.39	6.50	5.76	172175
	Panel Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1152-ND	9.53	5.95	5.28	172173
	Panel Direct Solder Jack	.141 Semi-Rigid, 402, U	Gold	Nexcote	Solder	Solder	ACX1153-ND	9.78	6.11	5.42	172170
	Panel Direct Solder Jack	.085 Semi-Rigid, 405, U	Gold	Nexcote	Solder	Solder	ACX1154-ND	9.75	6.10	5.40	172169
17	Jack, Straight	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1155-ND	5.31	3.32	2.94	172103
	Jack, Straight	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1156-ND*	5.08	3.17	2.81	172103RP
	Jack, Straight, 50Ω, Cap. Con.	RG 55, 142, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1157-ND	5.31	3.32	2.94	172147
	Jack, Straight	LMR200, B7807A	Gold	Nexcote	Crimp	Crimp	ACX1158-ND	7.85	4.91	4.35	172216
	Jack, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1159-ND	7.48	4.67	4.14	172204
	Jack, Straight	RG 8X, LMR240, B7808A	Gold	Nexcote	Crimp	Crimp	ACX1160-ND	5.18	3.24	2.87	172148
	Jack, Straight	B9913, LMR400, B7810A, B8214	Gold	Nexcote	Crimp	Crimp	ACX1161-ND	5.43	3.40	3.01	172203
	Jack, Straight	B9913, LMR400, B7810A, B8214	Gold	Nexcote	Crimp	Crimp	ACX1162-ND*	5.20	3.25	2.88	172203RP
	Solder Jack	.141 Semi-Rigid, 402, U	Gold	Nexcote	Solder	Solder	ACX1163-ND	5.48	3.43	3.04	172238
	Solder Jack	.085 Semi-Rigid, 405, U	Gold	Nexcote	Solder	Solder	ACX1164-ND	5.38	3.36	2.98	172237
18	Panel Receptacle Jack, Ext. Tef.	—	Gold	Nexcote	—	—	ACX1165-ND	5.88	3.68	3.26	172117
	Panel Receptacle Jack	—	Gold	Nexcote	—	—	ACX1167-ND	6.52	4.08	3.61	172119
19	Panel Receptacle Plug	—	Gold	Nexcote	—	—	ACX1166-ND	8.39	5.24	4.65	172118
20	Plug to Plug Adapter	—	Gold	Nexcote	—	—	ACX1168-ND	8.82	5.51	4.89	172122
21	Jack to Jack Adapter	—	Gold	Nexcote	—	—	ACX1169-ND	6.30	3.94	3.49	172123
22	Bulkhead, Jack to Jack Adapter	—	Gold	Nexcote	—	—	ACX1170-ND	8.06	5.03	4.46	172124
23	Jack to Plug Adapter	—	Gold	Nexcote	—	—	ACX1171-ND	12.56	7.85	6.96	172126
—	Plug Cap with Chain	—	—	Nexcote	—	—	ACX1172-ND	2.68	1.67	1.48	202102
	Terminator Plug with Chain	—	Gold	Nexcote	—	—	ACX1173-ND	8.32	5.20	4.61	202109-10
	Terminator Jack	—	Gold	Nexcote	—	—	ACX1174-ND	5.75	3.59	3.18	202110

* Reverse Polarity

TNC and Reverse Polarized TNC Connectors

Fig. 1

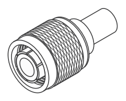

Fig. 2

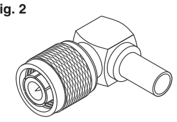

Fig. 3

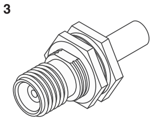

Fig. 4

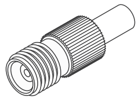

Fig. 5

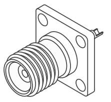

Fig. 6

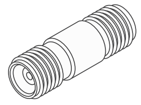

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Amphenol Part No.
1	Plug, Straight-Captive Contact	RG 58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Nickel	Crimp	Crimp	ACX1070-ND	2.09	1.31	1.16	122108
	Plug, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1071-ND*	2.85	1.78	1.58	122108RP
	Plug, Straight	RG 55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1072-ND	2.09	1.31	1.16	122372
	Plug, Straight	55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1073-ND*	4.16	2.60	2.30	122372RP
	Plug, Straight	LMR200™, B7807A	Gold	Nickel	Crimp	Crimp	ACX1074-ND	2.11	1.32	1.17	122410
	Plug, Straight	RG 59, 62, 140, 210	Gold	Nickel	Crimp	Crimp	ACX1075-ND	2.09	1.31	1.16	122111
	Plug, Straight, 75Ω	59, U-20AWG	Gold	Nickel	Crimp	Crimp	ACX1076-ND	2.11	1.32	1.17	122426
	Plug, Straight	RG 8, 8A, 213, 393	Gold	Nickel	Crimp	Crimp	ACX1077-ND	6.57	4.11	3.64	122394
	Plug, Straight	RG 214	Gold	Nickel	Crimp	Crimp	ACX1078-ND	7.10	4.44	3.93	122398
	Plug, Straight	RG 8X, LMR240™, B7808A	Gold	Nickel	Crimp	Crimp	ACX1079-ND	2.40	1.50	1.33	122408
	Plug, Straight	RG 8X, LMR240, B7808A	Gold	Nickel	Crimp	Crimp	ACX1080-ND*	4.31	2.69	2.39	122408RP
	Plug, Straight	B9913, LMR400™, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1081-ND	7.35	4.59	4.07	122393
	Plug, Straight	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1082-ND*	7.28	4.55	4.03	122393RP
	Plug, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1083-ND	2.68	1.67	1.48	122116
	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1085-ND*	3.32	2.07	1.84	122116RP
	Plug, Straight	316, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1084-ND	2.70	1.69	1.50	122375
	Direct Solder Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1086-ND	16.01	10.01	8.87	122387
	Direct Solder Plug	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1087-ND	4.09	2.56	2.27	122386
	Direct Solder Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1088-ND*	4.84	3.02	2.68	122386RP
	Direct Solder Plug	.250 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1089-ND	3.07	1.92	1.70	122484
2	Right Angle Plug	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Solder	ACX1090-ND	4.59	2.87	2.54	122140
	Right Angle Plug	RG, 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Solder	ACX1091-ND*	4.79	3.00	2.66	122140RP
	Right Angle Plug	RG 55, 142A, 223, 400	Gold	Nickel	Crimp	Solder	ACX1092-ND	4.79	3.00	2.66	122430
	Right Angle Plug	RG 8X, LMR240™, B7808A	Gold	Nickel	Crimp	Solder	ACX1093-ND	7.24	4.53	4.01	122414
	Right Angle Plug	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Solder	ACX1094-ND	6.85	4.28	3.79	122416
	Right Angle Plug	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Solder	ACX1095-ND	4.99	3.12	2.76	122148
3	Bulkhead Jack	RG, 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1096-ND	4.38	2.74	2.43	122160
	Bulkhead Jack	RG, 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1097-ND*	5.24	3.27	2.90	122160RP
	Bulkhead Jack	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1098-ND	4.38	2.74	2.43	122192
	Bulkhead Jack	316, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1099-ND	4.26	2.66	2.36	122358
	Bulkhead Jack	RG 178B, 196A	Gold	Nickel	Crimp	Crimp	ACX1100-ND	5.02	3.14	2.78	122370
	Bulkhead Jack	RG 178B, 196A	Gold	Nickel	Crimp	Crimp	ACX1101-ND*	6.14	3.84	3.40	122370RP
	Bulkhead, Direct Solder, Jack	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1102-ND	4.56	2.85	2.53	122401
	Bulkhead, Solder Jack	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1103-ND	4.79	3.00	2.66	122400
4	Jack, Straight	RG, 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1104-ND	2.68	1.67	1.48	122122
	Jack, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1105-ND*	3.20	2.00	1.77	122122RP
	Jack, Straight	RG 55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1106-ND	2.08	1.30	1.15	122373
	Jack, Straight	RG 8X, LMR240, B7808A	Gold	Nickel	Crimp	Crimp	ACX1107-ND	5.43	3.39	3.01	122409
	Jack, Straight	RG 8X, LMR240, B7808A	Gold	Nickel	Crimp	Crimp	ACX1108-ND*	3.20	2.00	1.77	122409RP
	Jack, Straight	RG 8, 8A, 213, 393	Gold	Nickel	Crimp	Crimp	ACX1109-ND	5.93	3.71	3.29	122482
	Jack, Straight	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1110-ND	6.11	3.82	3.38	122392
	Jack, Straight	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1111-ND*	5.48	3.42	3.03	122392RP
	Bulkhead, Receptacle, Solder Pot	—	Gold	Nickel	—	—	ACX1112-ND	2.31	1.44	1.28	122332
5	Panel Receptacle, Solder Pot	—	Gold	Nickel	—	—	ACX1113-ND	4.26	2.66	2.36	122248
6	Jack to Jack Adapter, 50Ω	—	Gold	Nickel	—	—	ACX1114-ND	2.83	1.77	1.57	122348
—	Plug to Plug Adapter, 50Ω	—	Gold	Nickel	—	—	ACX1115-ND	4.67	2.92	2.58	122350
—	Plug Cap with Chain	—	—	Nickel	—	—	ACX1116-ND	2.68	1.67	1.48	202101
—	Plug Termination, 50Ω	—	Gold	Nickel	—	—	ACX1117-ND	3.02	1.89	1.67	202117

* Reverse Polarity

Between Series Adapters

ACX1339-ND Shown

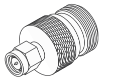

ACX1382-ND Shown

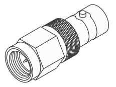

ACX1355-ND Shown

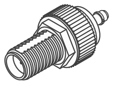

Description	Center Contact	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Amphenol Part No.
SMA Plug to BNC Jack	Gold	Nickel	ACX1322-ND	6.22	3.88	3.51	242102
SMA Jack to BNC Plug	Gold	Gold	ACX1323-ND	12.06	7.54	6.81	242103
SMA Plug to BNC Plug	Gold	Nickel	ACX1324-ND	18.10	11.31	10.22	242104
SMA Jack to BNC Jack	Gold	Nickel	ACX1325-ND	10.86	6.79	6.13	242123
SMA Jack to BNC Bulkhead Jack	Gold	Nickel	ACX1326-ND	18.10	11.31	10.22	242181
TNC Jack to SMA Plug	Gold	Nickel	ACX1327-ND	12.07	7.54	6.81	242124
SMA Jack to TNC Plug	Gold	Nickel	ACX1328-ND	9.05	5.66	5.11	242105
SMA Jack to TNC R/P Plug	Gold	Gold	ACX1329-ND*	18.10	11.31	10.22	242105RP
SMA Plug to TNC Plug	Gold	Nickel	ACX1330-ND	18.10	11.31	10.22	242106
SMA Jack to TNC Jack	Gold	Nickel	ACX1331-ND	18.10	11.31	10.22	242107
SMA Jack to TNC R/P Jack	Gold	Gold	ACX1332-ND*	18.10	11.31	10.22	242107RP
SMA Jack to TNC Bulkhead Jack	Gold	Nickel	ACX1333-ND	18.10	11.31	10.22	242178
SMA Plug to SMB Jack	Gold	Gold	ACX1334-ND	18.10	11.31	10.22	242144
SMA Jack to SMB Plug	Gold	Gold	ACX1335-ND	18.10	11.31	10.22	242145
SMA Plug to SMB Plug	Gold	Gold	ACX1336-ND	18.10	11.31	10.22	242146
SMA Jack to SMB Jack	Gold	Gold	ACX1337-ND	18.10	11.31	10.22	242147
SMA Bulkhead Jack to SMB Jack	Gold	Gold	ACX1338-ND	18.10	11.31	10.22	242182
SMA Plug to N Jack	Gold	Nickel	ACX1339-ND	12.07	7.54	6.81	242112
SMA R/P Plug to N Jack	Gold	Nickel	ACX1340-ND*	12.07	7.54	6.81	242112RP
SMA Jack to N Plug	Gold	Nickel	ACX1341-ND	9.66	6.03	5.45	242113
SMA R/P Jack to N Plug	Gold	Nickel	ACX1342-ND*	18.10	11.31	10.22	242113RP
SMA Plug to N Plug	Gold	Nickel	ACX1343-ND	12.07	7.54	6.81	242114
SMA Jack to N Jack	Gold	Nickel	ACX1344-ND	12.07	7.54	6.81	242115
SMA Jack to N Bulkhead Jack	Gold	Nickel	ACX1345-ND	10.92	6.83	6.17	242125
SMA Jack to N Panel Jack	Gold	Nickel	ACX1346-ND	12.07	7.54	6.81	242163
SMA Plug to MCX Jack	Gold	Gold	ACX1347-ND	18.10	11.31	10.22	242126
SMA Jack to MCX Plug	Gold	Gold	ACX1348-ND	15.09	9.43	8.52	242127
SMA Plug to MCX Plug	Gold	Gold	ACX1349-ND	20.46	12.79	11.55	242128
SMA Jack to MCX Jack	Gold	Gold	ACX1350-ND	18.10	11.31	10.22	242129
SMA Plug to MMCX Jack	Gold	Gold	ACX1351-ND	18.10	11.31	10.22	242140
SMA Jack to MMCX Plug	Gold	Gold	ACX1352-ND	18.10	11.31	10.22	242141
SMA Plug to MMCX Plug	Gold	Gold	ACX1353-ND	18.10	11.31	10.22	242142
SMA Jack to MMCX Jack	Gold	Gold	ACX1354-ND	18.10	11.31	10.22	242143
SMA Jack to MMCX Bulkhead Plug	Gold	Gold	ACX1355-ND	18.10	11.31	10.22	242193
N Plug to BNC Jack	Gold	Nickel	ACX1356-ND	18.10	11.31	10.22	242121
N Jack to BNC Plug	Gold	Nickel	ACX1357-ND	18.10	11.31	10.22	242101
N Jack to BNC Jack	Gold	Nickel	ACX1358-ND	18.10	11.31	10.22	242100
N Plug to BNC Plug	Gold	Nickel	ACX1359-ND	18.10	11.31	10.22	242122
N Jack to BNC Bulkhead Jack	Gold	Nickel	ACX1360-ND	30.17	18.86	17.03	242162
N Plug to TNC Jack	Gold	Nickel	ACX1361-ND	18.10	11.31	10.22	242130

Description	Center Contact	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Amphenol Part No.
N Plug to TNC R/P Jack	Gold	Nickel	ACX1362-ND*	18.10	11.31	10.22	242130RP
N Jack to TNC Plug	Gold	Nickel	ACX1363-ND	12.07	7.54	6.81	242131
N Jack to TNC R/P Plug	Gold	Nickel	ACX1364-ND*	18.10	11.31	10.22	242131RP
N Jack to TNC Jack	Gold	Nickel	ACX1365-ND	18.10	11.31	10.22	242132
N Jack to TNC R/P Jack	Gold	Nickel	ACX1366-ND*	18.10	11.31	10.22	242132RP
N Plug to TNC Plug	Gold	Nickel	ACX1367-ND	18.10	11.31	10.22	242133
N Plug to TNC R/P Plug	Gold	Nickel	ACX1368-ND*	18.10	11.31	10.22	242133RP
N Plug to F Jack, Waterproof	Gold	Nickel	ACX1369-ND	12.07	7.54	6.81	242156
N Plug to 7/16 Jack	Silver	Nexcote	ACX1370-ND	60.34	37.72	34.07	242135
N Jack to 7/16 Plug	Silver	Nexcote	ACX1371-ND	60.34	37.72	34.07	242136
N Jack to 7/16 Jack	Silver	Nexcote	ACX1372-ND	60.34	37.72	34.07	242137
N Plug to 7/16 Plug	Silver	Nexcote	ACX1373-ND	60.34	37.72	34.07	242138
N Bulkhead Jack to 7/16 Jack	Silver	Nexcote	ACX1374-ND	63.33	39.58	35.07	272183
N Jack to SMB Jack Panel	Gold	Nickel	ACX1375-ND	24.19	15.12	13.65	242198
N Bulkhead Jack to SMB Jack	Gold	Nickel	ACX1376-ND	18.10	11.31	10.22	242183
BNC Plug to TNC Jack	Gold	Nickel	ACX1377-ND	18.10	11.31	10.22	242148
BNC Jack to TNC Plug	Gold	Nickel	ACX1378-ND	7.25	4.53	4.09	242149
BNC Jack to TNC Jack	Gold	Nickel	ACX1379-ND	18.10	11.31	10.22	242150
BNC Plug to TNC Plug	Gold	Nickel	ACX1380-ND	18.10	11.31	10.22	242151
BNC Plug to F Jack	Gold	Nickel	ACX1381-ND	18.10	11.31	10.22	242154
BNC Jack to F Plug	Gold	Nickel	ACX1382-ND	18.10	11.31	10.22	242159
BNC Jack to F Jack	Gold	Nickel	ACX1383-ND	18.10	11.31	10.22	242161
BNC Plug to F Plug	Gold	Nickel	ACX1384-ND	12.07	7.54	6.81	242160
BNC Plug to SMB Jack	Gold	Nickel	ACX1385-ND	18.10	11.31	10.22	242184
BNC Jack to SMB Plug	Gold	Nickel	ACX1386-ND	12.07	7.54	6.81	242185
BNC Jack to SMB Jack	Gold	Nickel	ACX1387-ND	18.10	11.31	10.22	242186
BNC Plug to SMB Plug	Gold	Nickel	ACX1388-ND	18.10	11.31	10.22	242187
U.FL/AMC Jack to SMA Plug	Gold	Gold	ACX1389-ND	18.10	11.31	10.22	242212
U.FL/AMC Jack to TNC Jack	Gold	Nickel	ACX1390-ND◊	18.10	11.31	10.22	242192
U.FL/AMC Jack to TNC R/P Jack	Gold	Nickel	ACX1391-ND◊*	18.10	11.31	10.22	242192RP
U.FL/AMC Jack to N Jack	Gold	Nickel	ACX1392-ND◊	18.10	11.31	10.22	242216

*Reverse Polarity ◊ Bulkhead

Hand Tools and Die Sets for ACX Connectors

Description	Cable Group	Digi-Key Part No.	Price Each	Amphenol Part No.
Tool Crimp with Dies	RG 55, 58, 59, 62, 141, 142, 223, 303, 400	ACX1393-ND	90.39	47-10070
Tool Crimp with Dies	RG 174, 188, 316, 179, 187, 180, 195, 178, 196	ACX1394-ND	90.34	47-10150
Tool Crimp with Dies	.151 Hex 316, 179, Double Braid	ACX1395-ND	90.34	47-10160
Tool Crimp with Dies	RG 8, 213, 214, 393, 58, 141, 223, 142, 400 N Series	ACX1396-ND	104.70	47-10230
Tool Crimp with Dies	RG 6, 59, B8281	ACX1397-ND	90.34	47-10110
Tool Crimp with Dies	RG 58, 174, 188, 316, 179, 187, 142, 141, 223, 400, 55	ACX1398-ND	90.34	47-10120
Tool Crimp with Dies	5 Cavity RG 58, 59N, BNC, TNC, SMA	ACX1399-ND	94.51	47-10180
Tool Crimp with Dies	LMR 400, B9913, 9914, B7810A	ACX1400-ND	90.34	47-10210
Tool Frame	LMR 600	ACX1401-ND	310.00	47-4009-20
Die Set	LMR 600	ACX1402-ND	110.00	47-4009-1

FAKRA and FAKRA II SMB Connectors

With recent advancements in communications technology and increased consumer demand for a diverse array of on-board telematics services, RF communications systems have become indispensable components of the modern automobile. To keep RF interconnection costs low and ensure high levels of electrical and mechanical performance the German and American automotive industries have standardized a high-performing, cost-effective RF connector based on the FAKRA and USCAR standards. Utilizing a standard metal SMB connector embedded within a plastic housing that can be designed with multiple colored codes for easy identification, FAKRA connectors are designed to perform up to 4GHz and meet the particular mechanical and environmental requirements of the automobile industry. **FEATURES: Electrical:** • Impedance: 50Ω • Frequency Range: DC-4GHz • Performance Specification: SAE/USCAR-17 • Insulation Resistance: 1000MΩ minimum • Center Contact Resistance: center contact <20mΩ; outer contact <10mΩ • Dielectric Withstanding Voltage (sea level): >1000VRMS **Mechanical:** • Durability (matings): 100 minimum • Plastic Housing Engagement Force: ≤20 N • Plastic Housing Disengagement Force: ≥25 N • Coding: 13 mechanical and colored codings • Plastic Housing: PBT with 15% Glass Fiber • Secondary Locking Clip: PBT with 15% Glass Fiber • Center Contact (female): Beryllium Copper; (male): Brass • Body: Brass • Barrel: Brass • Retainer Ring: Beryllium Copper • Ferrule: Copper • Insulator: TFE • Center Contact Plating: Gold • Body, Barrel and Ferrule Plating: Nickel. FAKRA connectors incorporate machined components. FAKRA II connector series utilizes die cast as well as stamped and formed components.

Fig. 1

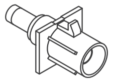

Single Male

Fig. 2

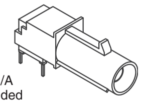

Single Male R/A
PCB with Extended
Housing

Fig. 3

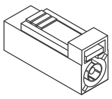

Single Female

Fig. 4

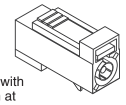

Single Female with
Clip Provision at
6 o'clock

Fig. 5

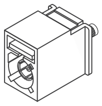

Fig. 6

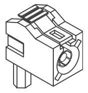

Single R/A Female

Fig. 7

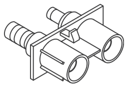

Dual Male

Fig. 8

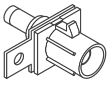

Single Male
with Bracket

FAKRA Keying Codes

Female Housings

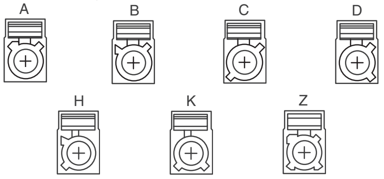

Mechanical and Color Coding

Coding	Rib Combination	Color	Similar RAL No.
A	A - B1	Deep Black	9005
B	A - B2	Signal White	9003
C	A - C	Signal Blue	5005
D	A - D	Bordeaux Violet	4004
H	B2 - C	Heather Violet	4003
K	C - D	Curry Yellow	1027
Z	Neutral Coding	Water Blue	5021

Male Housings

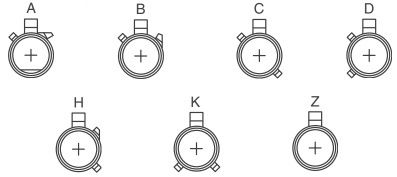

Fig.	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	100	Amphenol RF Part No.
FAKRA Coding "A" (Deep Black)							
1	RG-174, 188, 316	ARF1253-ND	3.27	2.73	1.77	1.64	FA1-NASP-C01-1
	RG-58, 141	ARF1255-ND	3.38	2.82	1.83	1.70	FA1-NASP-C04-1
	RG-174, 188, 316	ARF1604-ND	3.27	2.73	1.77	1.64	FA1-NARJ-C01-3
2	—	ARF1655-ND◊	3.42	2.85	1.85	1.71	FA1-NARP-PCB-8
3	RG-174, 188, 316	ARF1266-ND	3.59	2.99	1.94	1.80	FA1-NASJ-C01-0
	RG-58, 141	ARF1268-ND	3.69	3.08	1.99	1.85	FA1-NASJ-C04-0
4	RG-174, 188, 316	ARF1272-ND	4.11	3.43	2.22	2.06	FA1-NARJ-C01-0
	RG-58, 141	ARF1273-ND	4.31	3.60	2.33	2.16	FA1-NARJ-C04-0
FAKRA II Coding "A" (Deep Black)							
1	RG-174, 188, 316	ARF1605-ND	2.40	2.00	1.30	1.20	2FA1-NASP-C01-1
	RG-58, 141	ARF1606-ND	2.52	2.10	1.36	1.26	2FA1-NASP-C04-1
5	RG-174, 188, 316	ARF1600-ND	2.58	2.15	1.39	1.29	2FA1-NASJ-C01-0
	RG-58, 141	ARF1602-ND	2.70	2.25	1.46	1.35	2FA1-NASJ-C04-0
6	RG-174, 188, 316	ARF1601-ND	2.67	2.23	1.44	1.34	2FA1-NASJ-C01-6
	RG-58, 141	ARF1603-ND	2.79	2.33	1.51	1.40	2FA1-NASJ-C04-6
FAKRA Coding "B" (Signal White)							
1	RG-174, 188, 316	ARF1278-ND	3.27	2.73	1.77	1.64	FA1-NBSP-C01-1
2	—	ARF1656-ND◊	3.42	2.85	1.85	1.71	FA1-NBRP-PCB-8
3	RG-174, 188, 316	ARF1287-ND	3.59	2.99	1.94	1.80	FA1-NBSJ-C01-0
	RG-58, 141	ARF1289-ND	3.69	3.08	1.99	1.85	FA1-NBSJ-C04-0
FAKRA II Coding "B" (Signal White)							
1	RG-174, 188, 316	ARF1612-ND	2.40	2.00	1.30	1.20	2FA1-NBSP-C01-1
	RG-58, 141	ARF1613-ND	2.52	2.10	1.36	1.26	2FA1-NBSP-C04-1
5	RG-174, 188, 316	ARF1607-ND	2.58	2.15	1.39	1.29	2FA1-NBSJ-C01-0
	RG-58, 141	ARF1609-ND	2.70	2.25	1.46	1.35	2FA1-NBSJ-C04-0
6	RG-174, 188, 316	ARF1608-ND	2.67	2.23	1.44	1.34	2FA1-NBSJ-C01-6
	RG-58, 141	ARF1610-ND	2.79	2.33	1.51	1.40	2FA1-NBSJ-C04-6
FAKRA Coding "C" (Signal Blue)							
1	RG-174, 188, 316	ARF1316-ND	3.27	2.73	1.77	1.64	FA1-NCSP-C01-1
2	—	ARF1657-ND◊	3.42	2.85	1.85	1.71	FA1-NCRP-PCB-8
4	RG-174, 188, 316	ARF1310-ND	3.59	2.99	1.94	1.80	FA1-NCSJ-C01-0
	RG-58, 141	ARF1312-ND	3.69	3.08	1.99	1.85	FA1-NCSJ-C04-0
5	RG-174, 188, 316	ARF1311-ND	3.69	3.08	1.99	1.85	FA1-NCSJ-C01-6
6	RG-174, 188, 316	ARF1618-ND	3.27	2.73	1.77	1.64	FA1-NCRJ-C01-3
	RG-174, 188, 316	ARF1307-ND	4.11	3.43	2.22	2.06	FA1-NCRJ-C01-0
7	RG-174, 188, 316	ARF1323-ND	6.73	5.61	3.63	3.37	FA2-NCSP-C01-9
FAKRA II Coding "C" (Signal Blue)							
1	RG-174, 188, 316	ARF1619-ND	2.73	2.28	1.47	1.37	2FA1-NCSP-C01-1
	RG-58, 141	ARF1620-ND	2.52	2.10	1.36	1.26	2FA1-NCSP-C04-1
5	RG-174, 188, 316	ARF1614-ND	2.58	2.15	1.39	1.29	2FA1-NCSJ-C01-0
5	RG-58, 141	ARF1616-ND	2.70	2.25	1.46	1.35	2FA1-NCSJ-C04-0
6	RG-174, 188, 316	ARF1615-ND	2.67	2.23	1.44	1.34	2FA1-NCSJ-C01-6
	RG-58, 141	ARF1617-ND	2.79	2.33	1.51	1.40	2FA1-NCSJ-C04-6
FAKRA Coding "D" (Bordeaux Violet)							
1	RG-174, 188, 316	ARF1343-ND	3.27	2.73	1.77	1.64	FA1-NDSP-C01-1
8	RG-174, 188, 316	ARF1331-ND	3.87	3.23	2.09	1.94	FA1-NDSP-C01-0
3	RG-174, 188, 316	ARF1339-ND	3.59	2.99	1.94	1.80	FA1-NDSJ-C01-0
	RG-58, 141	ARF1341-ND	3.69	3.08	1.99	1.85	FA1-NDSJ-C04-0
6	RG-174, 188, 316	ARF1340-ND	3.69	3.08	1.99	1.85	FA1-NDSJ-C01-6
	RG-58, 141	ARF1342-ND	3.80	3.17	2.05	1.90	FA1-NDSJ-C04-6
4	RG-174, 188, 316	ARF1337-ND	4.11	3.43	2.22	2.06	FA1-NDRJ-C01-0
FAKRA II Coding "D" (Bordeaux Violet)							
1	RG-174, 188, 316	ARF1626-ND	2.40	2.00	1.30	1.20	2FA1-NDSP-C01-1
	RG-58, 141	ARF1627-ND	2.52	2.10	1.36	1.26	2FA1-NDSP-C04-1
5	RG-174, 188, 316	ARF1621-ND	2.58	2.15	1.39	1.29	2FA1-NDSJ-C01-0
	RG-58, 141	ARF1623-ND	2.70	2.25	1.46	1.35	2FA1-NDSJ-C04-0
6	RG-174, 188, 316	ARF1622-ND	2.67	2.23	1.44	1.34	2FA1-NDSJ-C01-6
	RG-58, 141	ARF1624-ND	2.79	2.33	1.51	1.40	2FA1-NDSJ-C04-6
FAKRA Coding "H" (Heather Violet)							
3	RG-174, 188, 316	ARF1428-ND	3.59	2.99	1.94	1.80	FA1-NHSJ-C01-0
2	—	ARF1658-ND◊	3.42	2.85	1.85	1.71	FA1-NHRP-PCB-8
FAKRA II Coding "H" (Heather Violet)							
1	RG-174, 188, 316	ARF1633-ND	2.40	2.00	1.30	1.20	2FA1-NHSP-C01-1
	RG-58, 141	ARF1634-ND	2.52	2.10	1.36	1.26	2FA1-NHSP-C04-1
5	RG-174, 188, 316	ARF1628-ND	2.58	2.15	1.39	1.29	2FA1-NHSJ-C01-0
	RG-58, 141	ARF1630-ND	2.70	2.25	1.46	1.35	2FA1-NHSJ-C04-0
	RG-174, 188, 316	ARF1629-ND	2.67	2.23	1.44	1.34	2FA1-NHSJ-C01-6
	RG-58, 141	ARF1631-ND	2.79	2.33	1.51	1.40	2FA1-NHSJ-C04-6
FAKRA Coding "K" (Curry Yellow)							
1	RG-174, 188, 316	ARF1481-ND	3.27	2.73	1.77	1.64	FA1-NKSP-C01-1
3	RG-174, 188, 316	ARF1487-ND	3.59	2.99	1.94	1.80	FA1-NKSJ-C01-0
	RG-58, 141	ARF1489-ND	3.69	3.08	1.99	1.85	FA1-NKSJ-C04-0
	RG-178, .071	ARF1492-ND	4.11	3.43	2.22	2.06	FA1-NKSJ-C10-0
6	RG-174, 188, 316	ARF1488-ND	3.69	3.08	1.99	1.85	FA1-NKSJ-C01-6
4	RG-174, 188, 316	ARF1478-ND	4.11	3.43	2.22	2.06	FA1-NKRJ-C01-0
FAKRA II Coding "K" (Curry Yellow)							
1	RG-174, 188, 316	ARF1640-ND	2.40	2.00	1.30	1.20	2FA1-NKSP-C01-1
	RG-58, 141	ARF1641-ND	2.52	2.10	1.36	1.26	2FA1-NKSP-C04-1
5	RG-174, 188, 316	ARF1635-ND	2.58	2.15	1.39	1.29	2FA1-NKSJ-C01-0
	RG-58, 141	ARF1637-ND	2.70	2.25	1.46	1.35	2FA1-NKSJ-C04-0
6	RG-174, 188, 316	ARF1636-ND	2.67	2.23	1.44	1.34	2FA1-NKSJ-C01-6
	RG-58, 141	ARF1638-ND	2.79	2.33	1.51	1.40	2FA1-NKSJ-C04-6

◊ Tin Plated

(Continued)

Amphenol RF

FAKRA and FAKRA II SMB Connectors *(Cont.)*

Fig.	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	100	Amphenol RF Part No.
FAKRA Coding "Z" (Water Blue)							
1	RG-174, 188, 316	ARF1533-ND	3.27	2.73	1.77	1.64	FA1-NZSP-C01-1
	RG-58, 141	ARF1535-ND	3.38	2.82	1.83	1.70	FA1-NZSP-C04-1
3	RG-174, 188, 316	ARF1526-ND	3.59	2.99	1.94	1.80	FA1-NZSJ-C01-0
	RG-58, 141	ARF1528-ND	3.69	3.08	1.99	1.85	FA1-NZSJ-C04-0
4	RG-174, 188, 316	ARF1523-ND	4.11	3.43	2.22	2.06	FA1-NZRJ-C01-0
FAKRA II Coding "Z" (Water Blue)							
1	RG-174, 188, 316	ARF1647-ND	2.40	2.00	1.30	1.20	2FA1-NZSP-C01-1
	RG-58, 141	ARF1648-ND	2.52	2.10	1.36	1.26	2FA1-NZSP-C04-1
5	RG-174, 188, 316	ARF1642-ND	2.58	2.15	1.39	1.29	2FA1-NZSJ-C01-0
	RG-58, 141	ARF1644-ND	2.70	2.25	1.46	1.35	2FA1-NZSJ-C04-0

Fig.	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	100	Amphenol RF Part No.
6	RG-174, 188, 316	ARF1646-ND	3.27	2.73	1.77	1.64	FA1-NZRJ-C01-3
	RG-174, 188, 316	ARF1643-ND	2.67	2.23	1.44	1.34	2FA1-NZSJ-C01-6
	RG-58, 141	ARF1645-ND	2.79	2.33	1.51	1.40	2FA1-NZSJ-C04-6
Adapter							
5	—	ARF1012-ND	40.68	33.90	21.91	20.34	APH-FKJ-SMAJ

Description	Digi-Key Part No.	Price Each
Tool Crimp Open Frame without Die	ARF1649-ND	371.01
Tool Crimp Frame without Die	ARF1650-ND	442.29
Tool Die Center Pin RG-174, 188, 316	ARF1651-ND	93.71
Tool Die Set Center Pin RF-58	ARF1652-ND	93.71
Tool Die Set Ferrule RG-174, 188, 316, 179B, 186A, 187A	ARF1653-ND	202.37
Tool Die Set Ferrule RG-58, 55, 141, 142, 223, 303, 400	ARF1654-ND	173.74

AMC Connector Series

Fig. 1

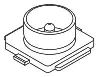

Fig. 2

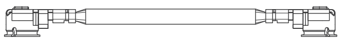

Amphenol Micro Coaxial (AMC) Connectors are for use in applications with 50Ω impedance requirements. AMC connectors are low profile (2.5mm of the board) and offer an extremely small board footprint (3mm X 3mm). • Impedance: 50Ω • Frequency Range: 0–6 GHz • Temperature Range: -40°C ~ 90°C

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
1	Jack Straight 50Ω SMD	ARF1579CT-ND†	1.01	.65	.58	A-1JB
	Jack Straight 50Ω SMD	ARF1579TR-NDΔ		942.50/2,500		A-1JB
2	Cable Jumper Plug-Plug 100mm	ARF1580-ND	3.65	2.52	2.27	A-1PA-113-100B2
	Cable Jumper Plug-Plug 125mm	ARF1581-ND	3.83	2.64	2.38	A-1PA-113-125B2
	Cable Jumper Plug-Plug 150mm	ARF1577-ND	4.03	2.92	2.51	A-1PA-113-150B2
	Cable Jumper Plug-Plug 300mm	ARF1578-ND	4.23	2.92	2.63	A-1PA-113-300B2
—	Adapter Plug-RP TNC Jack-Panel	ARF1582-ND	9.82	7.37	6.96	031-6101
	Adapter Plug-RP BNC Jack	ARF1583-ND	7.80	5.85	5.53	031-6109
	Adapter Plug-RP TNC Jack-Bulkhead	ARF1584-ND	14.16	10.62	10.03	031-6112
	Adapter Plug-RP SMA Jack	ARF1585-ND‡	7.85	5.74	5.23	901-10097

† Cut Tape Δ Tape and Reel ‡ -65°C ~ 165°C

SMP Connector Series

Fig. 1

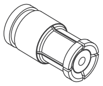

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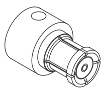

Fig. 3

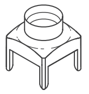

The SMP interface is a subminiature interface in the same scale as MMCX connectors but offers a frequency range of DC to 40 GHz. It is commonly used in miniaturized high frequency coaxial modules. • Impedance: 50Ω • Frequency Range: DC – 26.5 GHz • Contact Current: 1.2 A DC maximum • Temperature Range: -65°C ~ 165°C

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
1	Jack Straight .047 Semi-Rigid	ARF1592-ND	19.22	12.60	9.45	SMP-FS-C06
	Jack Straight .086 Semi-Rigid	ARF1593-ND	19.22	12.60	9.45	SMP-FS-C07
2	Jack R/A .047 Semi-Rigid	ARF1586-ND	19.22	12.60	9.45	SMP-FR-C06
	Jack R/A .086 Semi-Rigid	ARF1587-ND	19.22	12.60	9.45	SMP-FR-C07
3	Plug Limited Detent SMD	ARF1594-ND	11.13	8.47	7.89	SMP-MSLD-PCS
	Plug Limited Detent PCB	ARF1595-ND	17.58	11.53	8.64	SMP-MSLD-PCT
	Plug Smooth Bore SMD	ARF1596-ND	11.13	8.47	7.89	SMP-MSSB-PCS
	Plug Smooth Bore PCB	ARF1597-ND	17.58	11.53	8.64	SMP-MSSB-PCT
—	Adapter Straight 6.45mm	ARF1590-ND	18.11	11.88	8.91	SMP-FSBA-645
	Adapter Straight 9.90mm	ARF1591-ND	18.11	11.88	8.91	SMP-FSBA-990
	Adapter Straight 14.5mm	ARF1588-ND	19.44	12.75	9.56	SMP-FSBA-145
	Adapter Straight 22.4mm	ARF1589-ND	19.44	12.75	9.56	SMP-FSBA-224

QMA Connector Series

The QMA connector is a quick disconnect version of the SMA connector and shares the same internal construction, which allows the connector to have excellent performance. Because of the innovative coupling mechanism, a 360-degree butt joint is maintained which results in low RF leakage. Since the RF line is identical to the SMA series. QMA connectors also offer the same high power handling capability. This give the series significant advantages over other quick disconnect connectors, although QMA and SMA are not intermatable. Typically, these connectors can be installed into a system 10 times faster than an SMA connector. Another benefit of eliminating the threaded coupling is the denser packaging.

SPECIFICATIONS:

Electrical: • Impedance: 50Ω • Frequency Range: DC – 6GHz • Return Loss: DC – 3GHz > 32dB, 3 – 6GHz > 25dB

Mechanical: • Engagement Force: 5.6 lbs (25 N) • Disengagement Force: 4.5 lbs (20 N) • Retention Force for Interface: ≥ 13.5 lbs (60 N) • Mating Cycles: 100

Environmental: Temperature Range: -65°C ~ 165°C

Fig.	Description	Cable Group	Digi-Key Part No.	Price Each 1	10	25	Amphenol RF Part No.
1	Plug R/A .141 Semi-Rigid	RG-402	ARF1555-ND	17.73	11.63	8.73	930-103P-51A
	Plug R/A .085 Semi-Rigid	RG-405	ARF1556-ND	17.73	11.63	8.73	930-104P-51A
	Plug R/A	LMR240	ARF1557-ND	18.07	11.85	8.90	930-106P-51A
	Plug R/A	RG-58	ARF1559-ND	18.07	11.85	8.90	930-110P-51A
2	Plug Straight	.141 Semi-Rigid	ARF1558-ND	16.04	10.52	7.89	930-108P-51S
	Plug Straight	.086 Semi Rigid	ARF1560-ND	16.04	10.52	7.89	930-119P-51S
	Plug Straight	RG-58	ARF1561-ND	16.29	10.68	8.02	930-120P-51S
	Plug Straight	RG-316	ARF1562-ND	16.29	10.68	8.02	930-129P-51S
3	Jack Press Fit	—	ARF1567-ND	14.56	9.54	7.16	930-105J-51S
4	Jack SMD Thru-hole	—	ARF1568-ND	12.46	8.17	6.13	930-107J-51P
5	Jack Bulkhead R/A SMD	—	ARF1569-ND	17.73	11.63	8.73	930-111J-51P
6	Jack 2-Hole Flanged	—	ARF1570-ND	17.73	11.63	8.73	930-117J-51S
7	Jack Bulkhead	RG-405	ARF1571-ND	15.19	9.97	7.48	930-121J-51S
	Jack Bulkhead	RG-402	ARF1572-ND	15.19	9.97	7.48	930-122J-51S
	Jack Bulkhead	RD-316	ARF1573-ND	15.44	10.13	7.60	930-123J-51S
	Jack Bulkhead	RG-316	ARF1574-ND	15.44	10.13	7.60	930-124J-51S
	Jack Bulkhead	RG-58	ARF1575-ND	15.44	10.13	7.60	930-125J-51S
8	Jack R/A Thru-hole MT	—	ARF1576-ND	11.50	8.63	8.15	930-128J-51P
9	Adapter Jack to SMA Jack	—	ARF1563-ND	63.99	41.96	31.47	930-100A-51S
10	Adapter Plug to SMA Jack	—	ARF1564-ND	72.80	47.74	35.81	930-101A-51S
11	Adapter Plug to SMA Plug	—	ARF1565-ND	80.74	52.95	39.72	930-130A-51S
12	Adapter Jack to SMA Plug	—	ARF1566-ND	78.11	51.22	38.42	930-131A-51S

Fig. 1

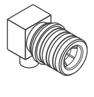

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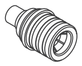

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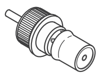

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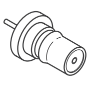

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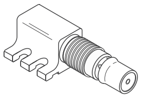

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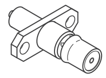

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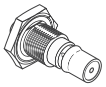

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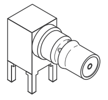

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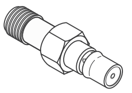

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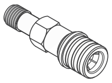

Fig. 11

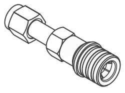

Fig. 12

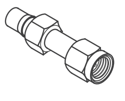

Amphenol®RF
Global RF Solutions

RF and RFX™ Connectors

BNC Coaxial Connectors

Fig. 1

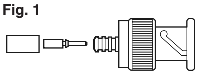

MIL-Crimp 3 Piece

Fig. 2

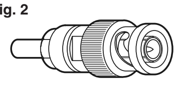

Original Crimp

Fig. 3

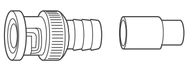

Single Crimp 2 Piece

Fig. 4

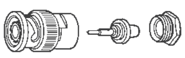

Quicktrim®

Fig. 5

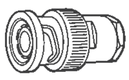

MIL-Clamp

Fig. 6

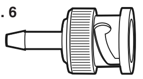

FCP

Fig. 7

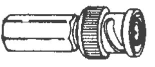

Suretwist®

Fig. 8

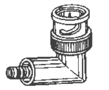

Angle Plug

Fig. 9

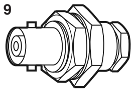

MIL-Clamp Jack

Fig. 10

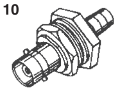

MIL-Crimp Bulkhead Jack

Fig. 11

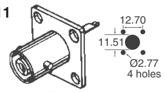

Panel Receptacle

Fig. 12

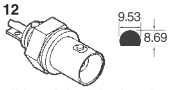

Bulkhead Jack Isolated

Fig. 13

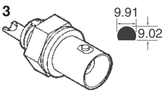

Bulkhead Receptacle

Fig. 14

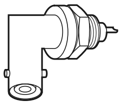

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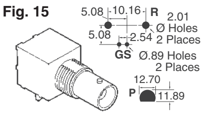

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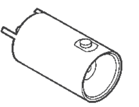

Fig. 17

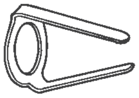

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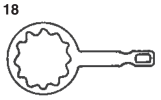

Fig. 19

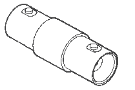

Fig. 20

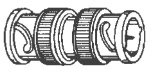

Fig. 21

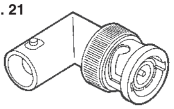

Fig. 22

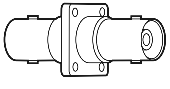

Fig. 23

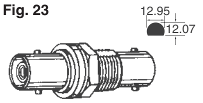

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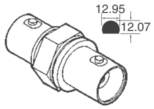

Fig. 25

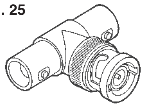

Fig. 26

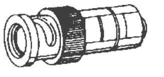

Fig. 27

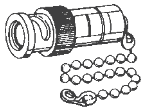

Fig.	Description	Cable Group RG/U	Crimp Tool Part No.	Digi-Key Part No.	Pricing 1	25	100	Amphenol Part No.
1	Plug	58, 141, 142	CTL-1	ARF1039-ND◆	6.39	74.08	269.15	31-320
	Plug	58, 141, 142	CTL-1	ARFX1039-ND◆†	2.54	29.74	108.52	31-320-RFX
	Plug (Quick-Crimp)	Plenum 58	CTL-1	ARFX1041-ND◆†	2.49	28.13	105.09	36650-3RFX
	Plug	59, 62	CTL-1	ARF1042-ND◆	6.96	80.80	293.40	31-321
	Plug	59, 62	CTL-1	ARFX1042-ND◆†	1.92	25.81	95.38	31-321-RFX
	Plug	59, 62, 71, 140, 210, 302	CTL-1	ARF1156-ND◆	7.12	80.65	302.87	68175
	Plug	Belden 9259	CTL-1	ARF1052-ND	7.22	81.90	305.81	68175-1003
	Plug	59 (20AWG Ctr. Cond.)	CTL-1	ARF1046-ND◆	7.08	80.39	300.00	68175-1005
	Plug	59 (20AWG Ctr. Cond.)	CTL-1	ARFX1046-ND◆†	2.36	26.85	97.03	68175-5RFX
	Plug	Plenum 59, 62	CTL-1	ARFX1047-ND◆†	3.05	34.73	129.23	68175-11RFX
	Plug	174, 188, 316	CTL-2	ARF1049-ND◆	7.25	82.29	299.55	31-315
	Plug	174, 188, 316	CTL-2	ARFX1049-ND◆†	2.64	29.84	108.21	31-315-RFX
	Plug	179, 187	CTL-2	ARF1050-ND◆	8.60	97.68	364.09	31-242
	Plug	Belden 8281 (59 DB 20AWG)	CTL-2	ARF1051-ND◆	8.87	100.55	375.31	31-321-1000
	Plug	Belden 9907, 89907	CTL-1	ARF1054-ND◆	7.22	81.90	305.81	31-320-1006
	Plug	59, 62	CTL-1	ARFX1123-ND◆†	1.43	21.49	80.07	31-71008-RFX
	Plug, 75Ω	59, 62	CTL-1	ARF1175-ND◆	5.03	56.90	207.66	31-71008
	Plug, 75Ω	59, 62 (20AWG Ctr. Cond.)	CTL-1	ARF1176-ND◆	5.30	60.43	219.99	31-71008-1000
	Plug, 75Ω	179, 187	CTL-2	ARF1174-ND◆	6.38	72.39	269.93	31-71013
	Plug, 75Ω	Belden 8218	CTL-2	ARF1173-ND◆	4.99	56.56	205.27	31-71033
	Plug, 75Ω	Belden 8281, 88281 (59 DB 20AWG)	CTL-2	ARF1172-ND◆	6.26	71.11	259.61	31-71032
	Plug (Thinnet/Ethernet)	58	CTL-1	ARF1181-ND◆	3.59	41.03	158.94	31-5800
	Plug (IBM/Arcnet)	59, 62 (20AWG Ctr. Cond.)	CTL-1	ARF1182-ND◆	3.82	44.41	161.02	31-5900
2	Plug (Original Crimp)	174, 179, 187, 188, 316	—	ARF1143-ND◆	24.03	239.24	890.66	31-371
3	Plug (Single Crimp)	59, 62	CTL-2	ARFX1124-ND◆†	3.10	35.17	130.92	31-5556-RFX
4	Plug (Quicktrim®)	59, 62	CTL-1	ARF1045-ND◆	19.70	287.98	1048.99	31-4541
	Plug (Quicktrim®)	59, 62	CTL-1	ARFX1045-ND◆†	5.96	67.80	251.29	31-4541-RFX
5	Plug	58	—	ARF1040-ND◆	6.05	72.53	262.97	31-202
	Plug	59, 62	—	ARF1043-ND◆	5.67	82.22	307.38	31-212
	Plug	59, 62	—	ARFX1043-ND◆†	2.59	35.69	136.02	31-212-RFX
	Plug	8, 9, 87A, 214, 313, 225	—	ARF1155-ND◆	22.42	362.66	1414.41	6775
	Plug	55, 58, 141, 142, 223, 400	—	ARF1126-ND◆	6.68	86.66	316.09	31-2
	Plug	55, 58, 141, 142, 223, 400	—	ARFX1119-ND◆†	2.88	33.71	125.73	31-2-RFX
	Plug	59, 62, 71, 140, 210, 302	—	ARF1123-ND◆	14.29	162.36	606.00	31-12
	Plug	174, 179, 187, 188, 316	—	ARF1157-ND◆	10.57	120.27	437.41	69475
	Plug	178, 196	—	ARF1120-ND◆	11.65	132.53	492.84	15875
6	Plug (FCP)	58, 141	—	ARF1145-ND◆	8.90	101.05	376.29	31-4700
	Plug (FCP)	59	—	ARF1146-ND	8.49	124.37	462.31	31-4702
7	Plug (Suretwist®)	59, 62	—	ARF1044-ND◆	8.50	96.55	360.32	31-5136
	Plug (Suretwist®)	59, 62	—	ARFX1044-ND†	3.02	35.30	139.12	31-5136-RFX
	Plug (Suretwist®)	58, 141, 142	—	ARFX1147-ND◆†	3.02	35.30	139.12	31-5137-RFX
8	Angle Plug	58, 141, 142A	CTL-1	ARF1055-ND◆	36.00	409.02	1524.25	31-335
	Angle Plug	58, 141, 142A	CTL-1	ARFX1055-ND◆†	7.34	83.51	321.52	31-335-RFX
9	Bulkhead Jack (Clamp)	55, 58, 141, 142, 223, 400	—	ARF1127-ND◆	11.91	135.29	503.90	31-206
10	Bulkhead Jack	55, 58, 141, 142, 223, 400	CTL-1	ARF1060-ND◆	10.92	192.86	717.94	31-342
	Bulkhead Jack	55, 58, 141, 142, 223, 400	CTL-1	ARFX1060-ND◆†	4.27	48.59	180.82	31-342-RFX
	Bulkhead Jack	59, 62, 140, 210	CTL-1	ARFX1061-ND◆†	6.61	75.31	280.32	31-343-RFX
	Bulkhead Jack	174, 188, 316	CTL-2	ARF1139-ND◆	13.85	157.21	586.29	31-318
	Bulkhead Jack	174, 188, 316	CTL-2	ARFX1139-ND◆†	5.32	60.30	225.80	31-318-RFX
11	Panel Receptacle (Solder)	—	—	ARF1062-ND◆	10.27	116.85	434.91	31-203
	Panel Receptacle (Solder)	—	—	ARFX1062-ND◆†	5.31	60.21	224.15	31-203-RFX
12	Bulkhead Recept. Isolated (Solder)	—	—	ARF1063-ND◆	4.11	46.67	169.62	31-10
	Bulkhead Recept. Isolated (Solder)	—	—	ARFX1063-ND◆†	3.12	37.68	138.88	31-10-RFX
	Bulkhead Isolated Recept.	75Ω	—	ARF1121-ND◆	10.89	123.62	460.35	31-10-75
13	Bulkhead Recept. Pressurized	—	—	ARF1134-ND◆	4.36	51.12	186.93	31-236
	Bulkhead Recept.	—	—	ARF1064-ND◆	3.25	37.05	133.64	31-221
	Bulkhead Recept. (Solder)	—	—	ARFX1064-ND◆†	2.56	30.19	110.36	31-221-RFX
	Bulkhead Recept.	—	—	ARF1131-ND◆	4.30	49.04	176.64	31-2221
	Bulkhead Recept.	75Ω	—	ARF1149-ND◆	12.15	220.05	664.14	31-70018
	Bulkhead Recept. Pressurized	—	—	ARF1122-ND◆	9.10	116.12	433.37	31-102
	Bulkhead Recept. Pressurized	—	—	ARF1136-ND◆	35.63	404.87	1508.76	31-238
14	Angle Bulkhead Recept.	—	—	ARF1130-ND◆	67.47	766.48	2856.82	31-222
15	Rt. Angle Bulkhead Recept.	—	—	ARF1065-ND	8.17	92.81	339.11	31-5431
	Rt. Ang. Bulkhead Recept. w/Hardware	—	—	ARF1065NW-ND◆	8.74	111.51	387.25	31-5431-2010
	Rt. Angle Bulkhead Recept.	75Ω	—	ARF1177-ND◆	6.66	75.92	275.26	31-71047-1010
	Rt. Angle Bulkhead Recept.	50Ω	—	ARF1178-ND◆	7.05	80.40	291.52	31-5640-1010
	Rt. Angle Bulkhead Recept. Metal	75Ω	—	ARF1179-ND◆	6.38	72.75	263.80	31-71043-1010
	Rt. Angle Bulkhead Recept. Low Profile	50Ω	—	ARF1180-ND◆	7.87	89.38	325.50	31-5486-1010
16	Receptacle Vertical PC	—	—	ARF1066-ND◆	8.99	102.30	382.33	31-5329
17	Shield Grounding Lug	—	—	ARF1067-ND◆	.75	8.71	33.00	31-759
18	Grounding Lug	—	—	ARF1068-ND◆	.69	7.99	29.36	31-10152-RFX
19	Straight/Jack-Jack	—	—	ARF1069-ND◆	7.25	82.29	299.07	31-219
	Straight/Jack-Jack	—	—	ARFX1069-ND◆†	5.16	63.70	229.75	31-219-RFX
	Straight/Jack-Jack	75Ω	—	ARF1150-ND◆	7.95	90.29	335.70	31-70019
20	Straight/Plug-Plug	—	—	ARF1070-ND◆	13.52	168.78	628.51	31-218
	Straight/Plug-Plug	—	—	ARFX1070-ND◆†	4.49	52.65	198.09	31-218-RFX
21	Angle/Jack-Plug	—	—	ARF1071-ND◆	18.62	211.52	789.55	31-9
	Angle/Jack-Plug	—	—	ARFX1071-ND◆†	7.00	79.77	309.66	31-9-RFX
	Angle/Jack-Plug	—	—	ARF1128-ND◆	20.45	232.34	866.24	31-209
22	Panel/Jack-Jack	—	—	ARF1154-ND◆	55.38	687.90	2382.09	47000
23	Bulkhead/Jack-Jack, Gasketed	50Ω	—	ARFX1130-ND◆†	5.05	58.45	217.41	31-220G-RFX
	Bulkhead/Jack-Jack (Sealed)	50Ω	—	ARF1129-ND◆	13.28	150.97	547.50	31-220H
	Bulkhead/Jack-Jack, Non-Gasketed	50Ω	—	ARF1072-ND◆	12.08	137.27	498.42	31-220N
	Bulkhead/Jack-Jack	—	—	ARFX1072-ND◆†	4.50	50.97	184.88	31-220N-RFX
	Bulkhead/Jack-Jack (Sealed)	—	—	ARF1140-ND◆	16.77	205.00	779.63	31-3220
	Bulkhead/Jack-Jack, Gasketed	75Ω	—	ARF1151-ND◆	28.42	322.74	1201.94	31-70020
24	Bulkhead/Jack-Jack (Ins.)	—	—	ARF1073-ND◆	13.29	151.02	549.65	31-4803
25	Tee/Jack-Plug-Jack	—	—	ARF1152-ND◆	18.63	202.01	753.13	31-8
	Tee/Jack-Plug-Jack	50Ω	—	ARF1074-ND◆	14.80	168.03	626.56	31-208
	Tee/Jack-Plug-Jack	50Ω	—	ARFX1074-ND◆†	6.63	75.57	274.05	31-208-RFX
26	Res. Cap, 50Ω	—	—	ARF1075-ND◆	21.67	246.15	917.39	46650-51
	Res. Cap, 50Ω	—	—	ARFX1075-ND◆†	3.28	37.30	129.52	46650-51-RFX
	Res. Cap, 75Ω	—	—	ARFX1076-ND◆†	3.62	41.25	153.29	46650-75-RFX
	Res. Cap, 93Ω	—	—	ARFX1077-ND◆†	4.38	49.74	172.44	46650-93-RFX
27	Res. Cap & Chain, 50Ω	—	—	ARF1078-ND◆	23.52	267.33	995.81	35650-51
	Res. Cap & Chain, 75Ω	—	—	ARF1079-ND◆	23.52	267.33	995.81	35650-75

◆ ***RoHS Compliant*** † RFX connectors. RFX™ is specifically designed for applications that do not require performance above 1 ~ 3GHz. RFX™ connectors are not for use in military system applications. RFX™ connectors are generally less expensive than MIL-Spec and industry standard connectors.

RF and RFX™ Connectors

Mini BNC Connectors

Dimensions Inch (mm)

The Mini BNC series provides the same positive locking bayonet system found on the BNC and allows 40% more interconnects in the same area. **Specifications:** ***Electrical:*** • Impedance: 75Ω • Frequency Range: DC-4 GHz • Voltage Rating: 500v ***Mechanical:*** • Connector Durability: 500 cycles ***Environmental:*** • Temperature Range: -40°C ~ 85°C

Fig.	Description	Contact Plating	Body Plating	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	100	Amphenol Part No.
1	Plug (Crimp)	Gold	Nickel	735A	ARF1548-ND	8.20	6.09	5.01	4.30	031-70251
				Belden 8218	ARF1549-ND	8.20	6.09	5.01	4.30	031-70260
				RG-179/U, 187A/U	ARF1550-ND	8.20	6.09	5.01	4.30	031-70261
2	Jack, Vertical	Gold	Gold	—	ARF1551-ND	5.29	4.63	4.14	3.44	031-70250
			Nickel	—	ARF1552-ND	4.49	3.33	2.87	2.66	031-70249
3	Jack, R/A	Gold	Nickel	—	ARF1553-ND	8.37	6.20	5.04	4.26	031-70255
4	Jack, Bulkhead R/A			—	ARF1554-ND	9.19	6.81	5.54	4.66	031-6055

Fig. 1

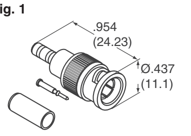

Fig. 2

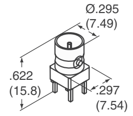

Fig. 3

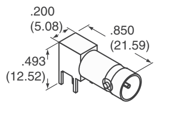

Fig. 4

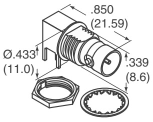

Fig. 1

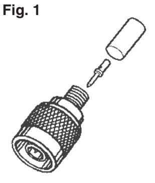

Fig. 2

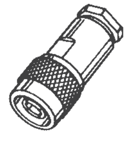

Fig. 3

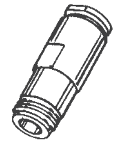

Fig. 4

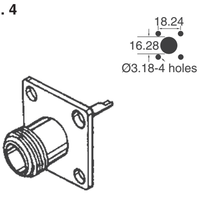

Fig. 5

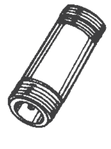

Fig. 6

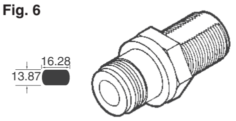

Fig. 7

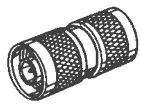

Fig. 8

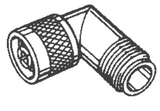

Fig. 9

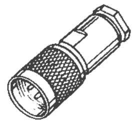

Fig. 10

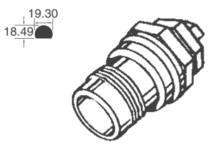

Fig. 11

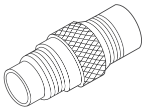

Fig. 12

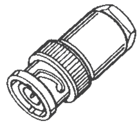

Fig. 13

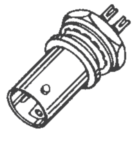

Fig. 14

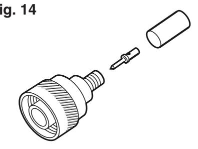

Fig. 15

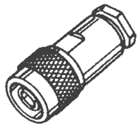

Type N Coaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Price Each 1	25	100	Amphenol Part No.
1	Plug (Crimp)‡	8, 213	M39012/10B-0007	ARF1013-ND	17.28	7.82	6.93	82-340
	Plug (Crimp)	9, 214	—	ARF1163-ND	14.94	10.83	9.46	82-332
	Plug (Crimp)	55, 142, 223	—	ARF1164-ND	12.08	8.56	7.27	82-5370
2	Plug (Clamp)	8, 9, 144, 165, 213, 214, 216, 225	UG-21D/U	ARF1014-ND	13.17	11.94	9.96	82-202
	Plug (Clamp)	8, 9, 144, 165, 213, 214, 216, 225	UG-1185	ARF1161-ND	10.81	6.65	5.94	82-312
	Plug (Clamp)	58, 141, 142	UG-536B/U	ARF1016-ND	11.64	7.83	7.48	34025
	Plug (Clamp)	58, 141, 142	UG-536B	ARFX1016-ND*	11.77	4.15	3.52	34025-RFX
	Plug (Clamp)	Belden 9913	—	ARF1020-ND	12.29	5.92	5.53	82-202-1006
	Plug (Clamp)	8, 9, 144, 165, 213, 214, 216, 225	UG-21D	ARFX1183-ND*	7.95	3.84	3.64	82-202-RFX
3	Jack (Clamp)	8, 9, 87A, 144, 165,	UG-23B/U	ARF1021-ND	19.12	13.16	9.22	82-63
4	Panel Receptacle	—	UG-58A/U	ARF1023-ND	12.85	7.07	6.56	82-97
	Panel Receptacle	—	UG-58A	ARFX1023-ND*	6.22	3.00	2.81	82-97-RFX
	Panel Receptacle	—	UG-58	ARF1160-ND	15.37	7.39	7.06	82-24
5	Straight/Jack-Jack	—	UG-29B/U	ARF1025-ND	17.21	11.87	7.79	82-101
	Straight/Jack-Jack	—	UG-29B	ARFX1025-ND*	7.79	3.78	3.60	82-101-RFX
6	Bulkhead/Jack-Jack	—	UG-30/U	ARF1026-ND	31.88	15.38	14.65	82-66
7	Straight/Plug-Plug	—	UG-57B/U	ARF1027-ND	16.66	11.48	7.54	82-100
	Straight/Plug-Plug	—	UG-57B	ARFX1027-ND*	12.08	5.46	5.23	82-100-RFX
8	Angle/Jack-Plug	—	UG-27A	ARF1028-ND	35.08	16.91	16.09	82-64

* RFX connectors

‡ Crimp tools are listed within the RF and RFX Connectors section.

Twinaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Price Each 1	25	100	Amphenol Part No.
9	Plug (Clamp)	AA-6076, AA-6079	—	ARFX1031-ND*	9.95	4.81	4.56	82-5589-RFX
10	Receptacle	—	—	ARFX1035-ND*	14.00	6.74	6.43	82-5590-RFX
11	Adapter/Jack-Jack	IBM 7362230	—	ARFX1036-ND*	10.62	5.12	4.87	82-5588-RFX
12	BNC Plug/Twinax - Noryl	108A	—	ARF1037-ND	15.21	6.88	6.57	31-224
	BNC Plug/Twinax - TFE	108A	—	ARF1133-ND	25.21	11.42	10.88	31-2226
13	BNC Bulkhead/Twinax - Noryl	—	—	ARF1038-ND	28.03	12.69	12.10	31-223
	BNC Bulkhead/Twinax - TFE	—	—	ARF1132-ND	24.88	11.27	10.74	31-2225

* RFX connectors

TNC Coaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Price Each 1	25	100	Amphenol Part No.
14	Plug (Quick Crimp)‡	—	—	ARF1081-ND	7.95	3.61	3.38	36825
	Plug (MIL-Crimp)	142, 223	—	ARF1135-ND	6.74	3.14	2.92	31-2373
	Plug (Crimp)‡	59, 62	M23329/4-05	ARF1084-ND	6.61	3.08	2.85	31-2368
15	Plug (Clamp)	58, 141, 142A	—	ARFX1082-ND*	2.80	1.44	1.37	79875-RFX

‡ Crimp tools are listed within the RF and RFX Connectors section.

* RFX™, is specifically designed for applications that do not require performance above 1 to 3 GHz. RFX™ connectors are not for use in military system applications. RFX™ connectors are generally less expensive than MIL-Spec and industry standard connectors.

SMA and SMB Connectors

Fig. 1

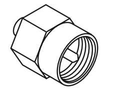

Fig. 2

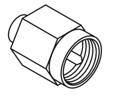

Fig. 3

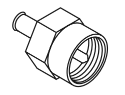

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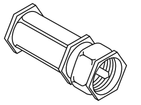

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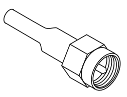

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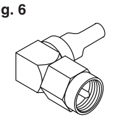

Fig. 7

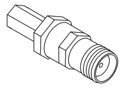

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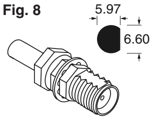

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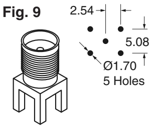

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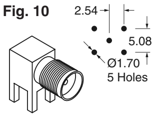

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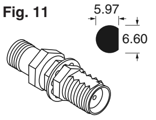

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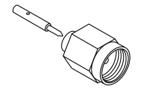

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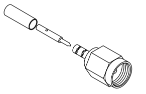

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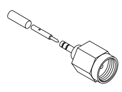

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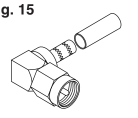

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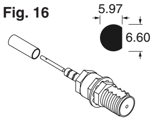

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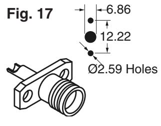

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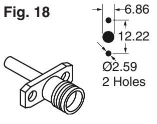

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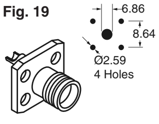

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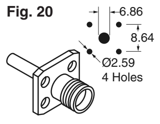

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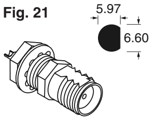

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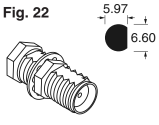

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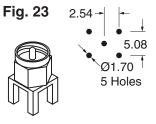

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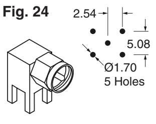

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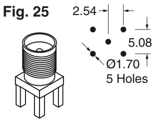

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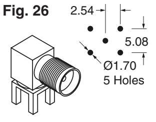

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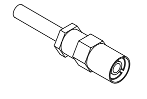

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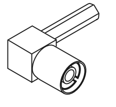

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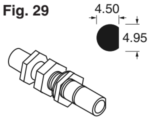

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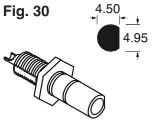

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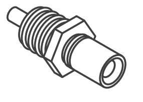

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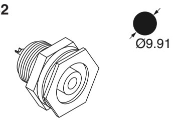

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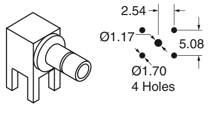

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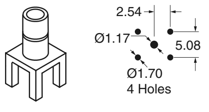

SMA Coaxial Connectors

Fig.	Description	Cable Group RG/U	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Amphenol Part No.
1	Plug, Straight	.085" (2.2mm) RG-405 (M17/133)	Gold	Solder	Plugable	ARF1184-ND	6.32	4.40	4.12	901-9723
2	Plug, Straight	.141" (3.6mm) RG-402 (M17/130)	Gold	Solder	Plugable	ARF1185-ND	6.88	4.79	4.49	901-9808
3	Plug, Straight	.085" (2.2mm) RG-405 (M17/133)	Gold	Solder	Plugable	ARF1186-ND	6.74	4.69	4.39	901-9805-HP
4	Plug, Straight	55, 58, 141, 142, 223	Gold	Clamp	Solder	ARF1187-ND*	58.60	46.38	42.99	901-103
		174, 316	Gold	Clamp	Solder	ARF1188-ND*	42.29	35.05	33.61	901-128-11
5	Plug, Straight	55B, 142B, 223, 400	Gold	Crimp	Solder	ARF1189-ND	8.90	6.57	6.38	901-9511-1
		55B, 142B, 223, 400	Passivated	Crimp	Solder	ARF1190-ND	8.00	5.58	5.01	901-9511-1SF
		174, 178, 187, 188, 316	Gold	Crimp	Solder	ARF1191-ND	7.35	5.12	4.67	901-9511-3
		174, 178, 187, 188, 316	Passivated	Crimp	Solder	ARF1192-ND	6.41	4.46	4.17	901-9511-3SF
		Dbl. Braid RG-188, 316	Passivated	Crimp	Solder	ARF1193-ND	8.22	5.71	5.36	901-9511-12SF
6	Plug, Right Angle	55, 141, 142, 223	Gold	Crimp	Solder	ARF1194-ND	12.93	8.99	8.43	901-9531-1
		SF 142B, Times AA-2423	Passivated	Crimp	Solder	ARF1195-ND	10.34	8.27	7.90	901-9531-1SF
		174, 179, 187, 188, 316	Gold	Crimp	Solder	ARF1196-ND	13.01	9.05	8.49	901-9531-3
		174, 179, 187, 188, 316	Passivated	Crimp	Solder	ARF1197-ND	8.38	5.82	5.45	901-9531-3SF
		Double Braid RG-316	Gold	Crimp	Solder	ARF1198-ND	13.47	9.37	8.78	901-9531-12
		Double Braid RG-316	Passivated	Crimp	Solder	ARF1199-ND	8.43	5.88	5.50	901-9531-12SF
7	Jacks	174, 179, 187, 188, 316	Passivated	Crimp	Solder	ARF1201-ND	43.29	32.00	29.95	901-9602-3SF
8	Jacks, Bulkhead	55, 142, 223, 400	Passivated	Crimp	Solder	ARF1202-ND	24.47	17.03	15.93	901-9610-1SF
		174, 179, 187, 188, 316	Gold	Crimp	Solder	ARF1203-ND	17.86	12.43	11.63	901-9610-3
		174, 179, 187, 188, 316	Passivated	Crimp	Solder	ARF1204-ND	16.13	11.22	10.49	901-9610-3SF
9	Jacks, Printed Circuit Board, Panel	—	Gold	—	—	ARF1205-ND	9.79	6.83	6.24	901-144
10	Jacks, Printed Circuit Board, Angle	—	Gold	—	—	ARF1206-ND	10.68	7.42	6.95	901-143
11	Adapters, Bulkhead Jack-Jack, Front or Rear Mt.	—	Gold	—	—	ARF1207-ND	13.21	9.46	8.86	901-9209A
11	Adapters, Bulkhead Jack-Jack, Front or Rear Mt.	—	Passivated	—	—	ARF1208-ND	12.00	8.59	8.04	901-9209-ASF

* Safety wire holes.

SMA Brass Coaxial Connectors

Fig.	Description	Cable Group RG/U	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Amphenol Part No.
12	Plug, Straight	.141" (3.6mm) S/R	Gold	Solder	Solder	ARFX1209-ND	3.30	2.30	2.15	901-9868-RFX
		.085" (2.16mm) S/R		Solder	Solder	ARF1210-ND	2.58	1.80	1.69	901-9867-RFX
13	Plug, Straight	58	Gold	Crimp	Solder	ARF1211-ND	4.96	3.45	3.23	901-9870
		141, 223	Gold	Crimp	Solder	ARF1212-ND	5.87	4.09	3.84	901-9871
		58	Nickel	Crimp	Solder	ARFX1213-ND	2.86	1.99	1.87	901-9876-RFX
14	Plug, Straight	174, 188, 316	Nickel	Crimp	Solder	ARFX1214-ND	2.58	1.80	1.68	901-9877-RFX
		174, 188, 316	Gold	Crimp	Solder	ARF1215-ND	4.88	3.39	3.17	901-9916
15	Plug, Right Angle	174, 188, 316	Gold	Crimp	Solder	ARF1216-ND	8.22	5.72	5.37	901-9872
		58	Gold	Crimp	Solder	ARF1217-ND	8.29	5.77	5.41	901-9873
		141, 223	Gold	Crimp	Solder	ARF1218-ND	9.04	6.30	5.47	901-9874
		58	Nickel	Crimp	Solder	ARFX1219-ND	5.30	3.68	3.46	901-9880-RFX
		174, 188, 316	Nickel	Crimp	Solder	ARFX1220-ND	4.65	3.24	3.04	901-9881-RFX
16	Bulkhead Jack	174, 188, 316	Gold	Crimp	Solder	ARF1221-ND	7.56	5.27	4.92	901-9875
		174, 188, 316	Nickel	Crimp	Solder	ARFX1222-ND	7.04	4.90	4.59	901-9879-RFX
17	Panel Receptacle, Jack	—	Nickel	—	—	ARFX1223-ND	4.72	3.28	3.07	901-9893-RFX
18	Panel Receptacle, Jack	—	Nickel	—	—	ARFX1224-ND	6.47	4.51	4.24	901-9891-RFX
19	Panel Receptacle, Jack	—	Nickel	—	—	ARFX1225-ND	4.78	3.33	3.12	901-9892-RFX
20	Panel Receptacle, Jack	—	Nickel	—	—	ARFX1226-ND	6.87	4.78	4.46	901-9887-RFX
21	Bulkhead Recep. Front Mt.	—	Nickel	—	—	ARFX1227-ND	4.17	2.91	2.72	901-9889-RFX
22	Bulkhead Recep. Rear Mt.	—	Nickel	—	—	ARFX1228-ND	3.83	2.68	2.51	901-9890-RFX
23	Plug Straight PCB Recep.	—	Gold	—	—	ARFX1229-ND	4.13	2.88	2.70	901-9895-RFX
24	Plug Rt. Angle PCB Recep.	—	Gold	—	—	ARFX1230-ND	6.83	4.76	4.45	901-9894-RFX
25	Receptacle, Straight PCB	—	Gold	—	—	ARFX1231-ND	3.07	2.14	1.96	901-144-8RFX
26	Recep., Right Angle PCB	—	Gold	—	—	ARFX1232-ND	5.13	3.57	3.35	901-143-6RFX

SMB Coaxial Connectors

Fig.	Description	Cable Group RG/U	Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Amphenol Part No.
27	Plug, Straight	RG-174, 179, 187,188, 316	Nickel	Crimp	Solder	ARF1233-ND	6.32	4.94	4.69	903-370P-51S
28	Plug, Right Angle	RG-174, 179, 187,188, 316	Nickel	Crimp	Solder	ARF1235-ND	4.44	3.26	3.12	903-367P-51A2
	Plug, Right Angle	RG-174, 179, 187,188, 316	Gold	Crimp	Solder	ARF1245-ND	12.70	9.00	7.78	903-289P-51A
	Plug, Right Angle	RG-178, 196	Gold	Crimp	Solder	ARF1236-ND	5.58	5.03	4.69	903-291P-51A1
	Plug, Right Angle	RG-178, 196	Nickel	Crimp	Solder	ARF1237-ND	4.34	3.51	3.27	903-368P-51A1
29	Bulkhead Jack	RG-174,188A, 316	Gold	Crimp	Solder	ARF1238-ND	6.02	4.19	3.91	903-505J-51S
	Bulkhead Jack	Dbl. Shield 316	Gold	Crimp	Solder	ARF1239-ND	6.86	4.78	4.46	903-505J-51S1

Fig.	Description	Plating	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Amphenol Part No.
30	Bulkhead, Recept. Front Mount Solder Cup Terminal	Gold	ARF1240-ND	5.92	4.11	3.87	903-406J-51R
31	Bulkhead, Recept. Front Mount Blunt Post Terminal	Gold	ARF1241-ND	4.24	2.96	2.77	903-402J-51R
32	Bulkhead Jack, Recept. Recessed, Solder Cup Term.	Gold	ARF1242-ND	34.14	22.03	21.42	903-407J-51R
33	Jack Right Angle	Tin Lead (Body and Legs) Gold (Interface and Term.)	ARF1243-ND	6.90	4.81	4.39	903-373J-51A
34	Jack Straight	Gold	ARF1244-ND	3.52	2.46	2.30	903-499J-51P2

Amphenol®RF
Global RF Solutions

RF and RFX™ Connectors

Fig. 1
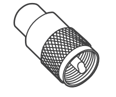

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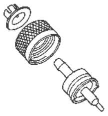

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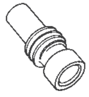

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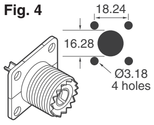

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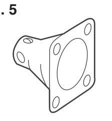

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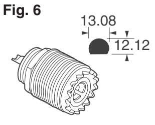

Fig. 7
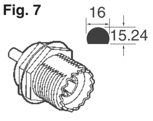

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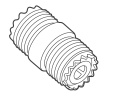

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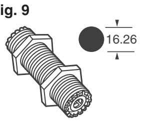

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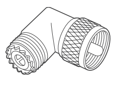

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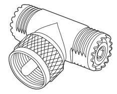

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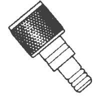

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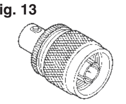

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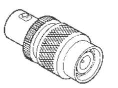

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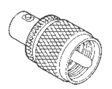

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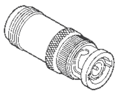

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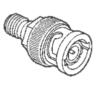

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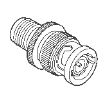

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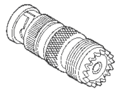

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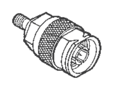

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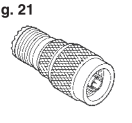

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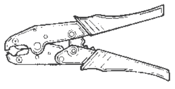

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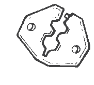

UHF Coaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Price Each 1	25	100	Amphenol Part No.
1	Plug	8, 9, 87A, 214, 313, 225	PL-259/U	ARF1000-ND	7.57	3.06	2.75	83-1SP-1050
	Plug	8, 9, 87A, 214, 313, 225	—	ARFX1000-ND◆	3.35	1.60	1.47	83-1SP-15RFX
	Plug (TFE Insul.)	8, 9, 87A, 214, 313, 225	PL-259	ARF1001-ND◆	9.48	3.52	3.11	83-822
2	Plug (Crimp or Solder)	58, 141, 142	—	ARFX1002-ND◆†	4.24	2.01	1.93	83-58FCP-RFX
3	Reducing Adapter	58, 141, 142	UG-175	ARFX1003-ND◆†	.81	.40	.38	83-185-RFX
	Reducing Adapter	59, 62, 71, 140, 210	UG-176	ARFX1004-ND◆†	.62	.31	.29	83-168-RFX
4	Panel Receptacle	—	SO-239/U	ARF1005-ND◆	6.73	2.50	2.07	83-1R
	Panel Receptacle	—	SO-239	ARFX1005-ND◆†	3.97	2.47	2.24	83-1R-RFX
	Panel Mount (TFE Insul.)	—	SO-239/A	ARF1168-ND◆	10.95	4.06	3.43	83-798
5	Panel Mount Hood	58, 141	UG-177	ARF1167-ND◆	6.24	4.16	3.20	83-765
6	Bulkhead Receptacle	—	—	ARF1006-ND◆	26.88	12.23	10.34	83-875-1002
7	Bulkhead Receptacle	—	—	ARF1007-ND	6.98	4.83	3.62	83-878
	Bulkhead Receptacle	—	—	ARFX1007-ND◆†	5.91	3.84	3.10	83-878-RFX
8	Straight/Jack-Jack	—	PL-258/U	ARF1008-ND◆	12.85	7.06	6.00	83-1J
9	Bulkhead/Jack-Jack	—	UG-363/U	ARF1009-ND◆	37.66	13.95	12.01	83-1F
10	Angle/Jack-Plug	—	UG-646/U	ARF1010-ND◆	22.03	9.26	8.35	83-1AP
11	Tee/Jack-Plug-Jack	—	M-358	ARF1011-ND	14.76	10.74	9.95	83-1T

◆ ***RoHS Compliant*** † RFX connectors. RFX is specifically designed for applications that do not require performance above 1 to 3 GHz. RFX connectors are not for use in military system applications. RFX connectors are generally less expensive than MIL-Spec and industry standard connectors.

RoHS COMPLIANT

Mini UHF Connector

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	100	Amphenol Part No.
12	Plug (Crimp tools below)	58, 58A, 58C, 141, 303	ARF1092-ND	4.52	2.81	2.55	81-115N-1000

Between Series Adapters

Fig.	Description	Military Part No.	Digi-Key Part No.	Price Each 1	25	100	Amphenol Part No.
13	BNC Jack to N Plug	UG-201A/U	ARF1096-ND◆	16.97	7.47	7.15	31-216
	RFX - BNC Jack to N Plug	UG-201A/U	ARFX1096-ND◆	15.63	10.71	9.08	31-216-RFX
14	BNC Jack to TNC Plug	—	ARF1098-ND◆	24.72	18.54	18.14	79675
15	BNC Jack to UHF Plug	UG-273/U	ARF1099-ND◆	21.44	15.83	14.55	31-28
	RFX - BNC Jack to UHF Plug	UG-273/U	ARFX1099-ND◆	43.91	28.15	27.25	31-28-RFX
16	BNC Plug to N Jack	UG-349A/U	ARF1102-ND◆	19.99	9.65	9.23	31-217
	RFX - BNC Plug to N Jack	UG-349A/U	ARFX1102-ND◆	23.48	14.81	13.80	31-217-RFX
17	BNC Plug to SMA Jack	—	ARF1103-ND◆	90.10	39.63	37.91	901-165
18	BNC Plug to TNC Jack	—	ARF1104-ND◆	32.66	25.13	24.02	79025
19	BNC Plug to UHF Jack	UG-255/U	ARF1105-ND◆	29.42	12.94	12.38	2900
20	N Plug to SMA Jack	—	ARF1106-ND◆	114.31	57.75	55.84	901-294
21	N Plug to UHF Jack	UG-146/U	ARF1107-ND	25.04	11.96	11.44	4400

◆ ***RoHS Compliant***

ECONOHEX™ Crimp Tools and Dies

Fig.	Description	Digi-Key Part No.	Price Each	Amphenol Part No.
	CTL Series Crimp Tools (Die Set Included)			
22	Crimp Tool – RG 58, 59, 62, Plenum 59, 62	ARF1116-ND	54.55	CTL-1
	Crimp Tool – RG 174, Belden 8281	ARF1117-ND	54.55	CTL-2
	Crimp Tool – RG 58, 8, 213	ARF1118-ND	54.55	CTL-3
	Crimp Tool – RG 55, 58, 59, 62, 140, 141, 142, 210, 223, 303, 400, Plenum 59, 62	ARF1183-ND	54.55	CTL-5
	Crimp Tool and Dies			
22	Tool Handle without Dies	ARF1108-ND	141.77	227-987
23	Crimp Die Set – RG 174,179, 187, 188, 316	ARF1111-ND	89.48	227-1418

Tyco Electronics AMP
Authorized Distributor

UMCC — Ultraminiature Coax Connector and Cable Assembly Series

Digi-Reel® RoHS COMPLIANT

Features:
• 360° mated rotation • Ultra low profile (2.0mm or 2.5mm maximum mated height) • Surface mount and reflow solderable • Style A receptacles mate with HIROSE U.FL/U.FL(v) series connectors • Style B receptacles mate with MURATA GSC series connectors

Specifications:
• Characteristic Impedance: 50Ω • Frequency Range: DC ~ 6GHz • Durability: 30 cycles • Operating Temperature: -40°C ~ 90°C

Fig. 1
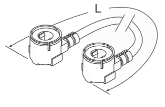

Fig. 2 — Receptacle – Style A
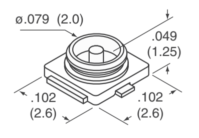

Fig. 3 — Receptacle – Style B
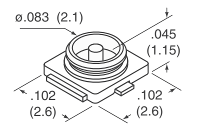

Fig.	Description	Dim. L (mm)	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
1	Double Ended Cable Assembly, Type I	100	A36220-ND	1.48	1.27	1.13	2015697-1
		200	A36221-ND	4.08	3.51	3.10	2015697-2
	Double Ended Cable Assembly, Type II	200	A36223-ND	4.00	3.44	3.04	2015698-3
	Double Ended Cable Assembly, Type III	100	A36224-ND	3.68	3.17	2.80	2015699-1
		200	A36225-ND	4.08	3.51	3.10	2015699-2
		100	A36226-ND	3.80	3.27	2.89	2015700-1
		200	A36227-ND	4.28	3.68	3.25	2015700-2
		100	A36228-ND	3.88	3.34	2.95	2015357-3
		200	A36229-ND	4.40	3.79	3.35	2015357-4
—	UMCC Plug ~ FME Plug, Type III	200	A36230-ND	18.95	16.30	14.41	2032438-1
	UMCC Plug ~ SMA Plug, Type III	200	A36231-ND	21.40	18.41	16.27	2032439-1
	UMCC Plug ~ SMA Bulkhead Jack, Type III	200	A36232-ND	24.20	20.82	18.40	2032440-1
	UMCC Plug ~ MCX Right Angle Plug, Type II	200	A36233-ND	23.28	20.02	17.69	2032441-1
	UMCC Plug ~ MCX Right Angle Plug, Type III	200	A36234-ND	23.28	20.02	17.69	2032442-1
	UMCC Plug ~ MMCX Right Angle Plug, Type II	200	A36235-ND	25.95	22.32	19.73	2032443-1
	UMCC Plug ~ MMCX Right Angle Plug, Type III	200	A36236-ND	25.95	22.32	19.73	2032444-1
2	UMCC Receptacle ~ Style A, Type II/III, SMD	—	A36237CT-ND†	1.16	.75	.66	1566230-1
			A36237TR-ND‡		1155.00/2,500		1566230-1
3	UMCC Receptacle ~ Style B, Type I, SMD	—	A36238CT-ND†	1.40	.90	.80	1775146-1
			A36238TR-ND‡		1400.00/2,500		1775146-1
—	UMCC Plug ~ SMA Jack Adapter, Type I	—	A36239-ND	48.33	41.56	36.73	1775229-1
	UMCC Plug ~ SMA Jack Adapter, Type II/III		A36240-ND	48.33	41.56	36.73	1775230-1
	UMCC Jack Receptacle ~ SMA Plug Adapter, Type I	—	A36241-ND	48.33	41.56	36.73	1775228-1
	UMCC Jack Receptacle ~ SMA Plug Adapter, Type II/III		A36242-ND	48.33	41.56	36.73	1775227-1
—	Extraction Tool	—	A36243-ND	3.90	3.36	2.97	1775231-1

† Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 1

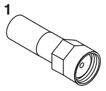

SMA Plug

Fig. 2

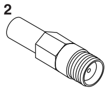

SMA Jack

Fig. 3

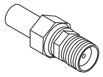

SMA Bulkhead Jack

Fig. 4

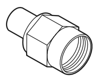

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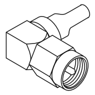

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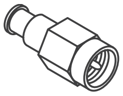

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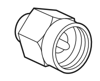

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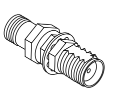

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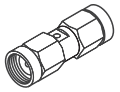

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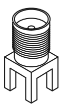

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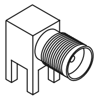

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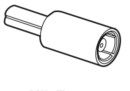

MIL-Type

Fig. 13

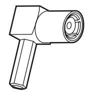

MIL-Type

Fig. 14

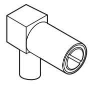

Zinc Die Cast

Fig. 15

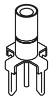

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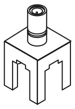

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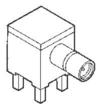

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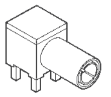

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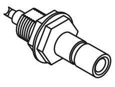

Front mount shown

Fig. 20

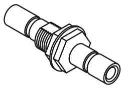

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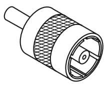

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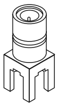

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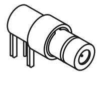

RF Connectors – SMA Crimp Connectors

A9966-ND Hand Crimp Tool, without Dies **$1854.00**

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.	Die Set	Price Each	Locator Plug†	Price Each
1	Plug, Hex Crimp, Brass, Nickel Plated	142, 142A, 142B	A4010-ND	5.70	4.91	447647-2	—	—	—	—
			A32325-ND◆	4.83	4.15	5447647-2	—	—	—	—
	Plug, Hex Crimp, Brass, Nickel Plated	174, 174A, 188, 188A, 316	A4011-ND	5.85	5.04	447647-3	—	—	—	—
			A32326-ND◆	4.75	4.09	5447647-3	—	—	—	—
	Plug, Hex Crimp, Brass, Nickel Plated	Belden YR20621	A24676-ND◆	6.13	5.27	1-447647-1	—	—	—	—
2	Jack, Hex Crimp	174, 188, 316	A32327-ND◆	6.20	5.34	5447648-3	—	—	—	—
3	Bulkhead Jack, Crimp	174, 188, 316	A4009-ND	13.38	11.51	447650-3	—	—	—	—
	Bulkhead Jack, Crimp	174, 188, 316	A32332-ND◆	12.05	10.37	5447650-3	—	—	—	—
4	Plug, with Center Contact	405 Semi-Rigid	A4012-ND◆	9.63	8.28	227868-1	A9964-ND	256.50	A9961-ND	90.00
	Plug, with Center Contact	405 Semi-Rigid	A4013-ND◆	15.65	13.46	228639-1	A9964-ND	256.50	A9961-ND	90.00
	Short Plug, with Center Contact	405 Semi-Rigid	A24680-ND◆	11.88	10.22	221447-1	—	—	—	—
5	Right Angle Plug, with Center Contact	405 Semi-Rigid	A24681-ND◆	38.73	33.31	228583-1	A9964-ND	256.50	A9961-ND	90.00
6	Solderless Plug, with Center Contact	402 (.141)	A4014-ND◆	14.38	12.37	227743-1	A9965-ND	1405.50	A9961-ND	90.00
	Solderless Plug, with Center Contact	402 (.141)	A4015-ND◆	15.65	13.46	228634-1	A9965-ND	1405.50	A9961-ND	90.00
	Solderless Plug, without Center Contact	402 (.141)	A4017-ND◆	4.40	3.79	228635-1	A9965-ND	1405.50	A9962-ND	89.42
7	Plug, Retractable Collar	402 (.141)	A4018-ND◆	4.98	4.28	227531-5	A9963-ND	555.00	A9962-ND	89.42

◆ ***RoHS Compliant*** † Must use a locator with die set.

SMA Snap-Lock Connectors

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	Snap Lock Straight Plug	316	A36399-ND	8.75	7.53	1408541-1
5	Snap Lock Right Angle Plug	316	A36398-ND	9.40	8.09	1274694-1
–	Snap Lock SMA Plug to SMA Jack	—	A97718-ND ***NEW!***	109.63	94.28	1053780-1

SMA Crimp Connectors for Flexible Cables

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	Plug, Stainless Steel, Passivated, Length: .950"	174, 188, 188A, 316	A24683-ND‡	16.48	14.17	225532-4
	Plug, Brass, Nickel, Length: 1.188"	174, 188, 188A, 316	A24684-ND‡	16.25	13.98	221117-2
			A32328-ND◆‡	16.25	13.98	221117-4
	Plug, Stainless Steel, Passivated	187, 187B, Belden 922	A33770-ND◆‡	14.88	12.80	5-225532-8
	Plug, Stainless Steel, Passivated	58, 58A, 58B, 58C	A24686-ND‡	17.75	15.27	225532-1
		223, 55, 55A, 55B	A24687-ND‡	19.30	16.60	1-225532-0
		142, 142A, 142B, 400, Belden 84142	A24688-ND‡	18.05	15.53	225532-3
3	Bulkhead Jack, Stainless Steel, Passivated	174, 188, 188A, 316	A24689-ND	39.48	33.95	225608-4
			A32321-ND◆	36.28	31.20	5225608-4
8	Bulkhead Jack Adapter (Jack-Jack)	—	A24690-ND◆	22.43	19.29	221643-1
			A30048-ND◆	20.28	17.44	1054868-1
			A30049-ND◆	18.35	15.79	1054869-1
9	Bulkhead Adapter (Plug-Plug)	—	A30044-ND◆	18.85	16.22	1053635-1
			A30045-ND◆	23.38	20.11	1053634-1

◆ ***RoHS Compliant*** ‡ Mil Type

SMA PC Board Connectors

Fig.	Description	Body Finish and Plating	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
10	Vertical Jack	Brass and Gold	A24691-ND	8.58	7.38	221789-1
	Vertical Jack	Gold and Gold	A30046-ND	13.10	11.27	1053354-1
11	Right Angle Jack	Stainless Steel and Gold	A24692-ND	18.43	15.85	221790-1
	Right Angle Jack	Gold and Gold	A30047-ND	14.23	12.24	1053378-1
		Zinc Die Cast				
10	Vertical Jack	Gold and Gold	A97594-ND	2.60	2.24	5-1814832-1
11	Right Angle Jack	Gold and Gold over Nickel over Copper	A97593-ND	3.03	2.61	5-1814400-1

SMB Connectors

Center Contact: Gold

Fig.	Description	Style	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
			50 Ohm — RoHS Compliant				
12	Plug, Nickel	Mil Type	178, 178A, 178B, 196, 196A	A4021-ND‡	6.18	5.32	413985-6
	Plug, Gold	Mil Type	174, 316, 188, 188A	A4026-ND‡	7.18	6.18	413985-1
	Plug, Nickel			A4027-ND‡	6.30	5.42	413985-3
	Plug, Nickel	Mil Type	179, 179A, 179B, 161, 187, 187A, Belden 9221	A4032-ND‡	5.75	4.95	1-413985-1
	Plug, Gold	Mil Type	RG 316, 188 Double Braid	A4034-ND‡	9.88	8.50	413985-2
	Plug, Nickel			A4035-ND‡	6.73	5.79	413985-4
13	Plug, Right Angle, Nickel	Mil Type	178, 178A, 178B, 196, 196A	A4023-ND‡	7.83	6.73	414002-8
	Plug, Right Angle, Gold	Mil Type	174, 316, 188, 188A, 179, 179A, 179B, 161, 187, 187A, Belden 9221	A4028-ND‡	9.20	7.92	414002-1
	Plug, Right Angle, Nickel			A4029-ND‡	9.40	8.09	414002-3
	Plug, Right Angle, Gold	Mil Type	RG 316, 188 Double Braid	A4036-ND‡	9.28	7.98	414002-2
	Plug, Right Angle, Nickel			A4037-ND‡	8.58	7.38	414002-4
14	Plug, Right Angle, Gold	Zinc	174, 316, 188, 188A, 179, 179A, 179B, 161, 187, 187A, Belden 9221	A32329-ND‡	4.90	4.22	5414363-3
	Plug, Right Angle, Nickel			A32331-ND‡	4.75	4.09	5414363-5
	Plug, Right Angle, Gold	Zinc	RG 316, 188 Double Braid	A32330-ND‡	3.76	3.24	5414363-4
15	Jack, Vertical, Nickel	Commercial	—	A32320-ND	3.25	2.80	5221111-1
16	Jack, Vertical, Gold	Mil Type	—	A4041-ND	5.00	4.30	413990-1
	Jack, Vertical, Nickel			A4042-ND	4.03	3.47	413990-2
17	Jack, Right Angle, Low Profile, Gold	Mil Type	—	A4043-ND	9.80	8.43	413996-2
	Jack, Right Angle with Standoff Pads, Gold			A24694-ND	7.20	6.20	414026-2
	Jack, Right Angle with Standoff Pads, Nickel			A4044-ND	5.80	4.99	414026-3
	Jack, Right Angle, Nickel/Tin-Lead, Zinc Die Cast	Zinc	—	A32323-ND	5.30	4.56	5414337-1
	Jack, Right Angle, Gold			A29351-ND	8.13	6.99	414963-1
18	Plug, Right Angle, Gold, Nickel/Tin-Lead, Zinc Die Cast	Zinc	—	A32324-ND	6.95	5.98	414338-1
19	Receptacle, Solder Pot, Front Mount, Nickel	Mil Type	—	A24695-ND	7.15	6.15	228216-1
	Receptacle, Solder Pot, Rear Mount, Nickel			A24696-ND	6.10	5.25	228215-1
20	Bulkhead Jack Adapter (Jack-Jack), Nickel	Mil Type	—	A24697-ND	8.18	7.04	228553-1
			75 Ohm				
13	Plug, Right Angle, Gold	Commercial	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24704-ND◆†	23.50	20.21	414048-6
21	Plug, Nickel	Commercial	179, 179A, 179B, 161, 187, 187A, Belden 9221	A4040-ND◆†	10.58	9.10	414618-2
22	PC Board Jack, Vertical, Gold	Mil Type	—	A4047-ND◆	7.00	6.02	414244-1
	PC Board Jack, Vertical, Tin-Lead			A4050-ND	6.48	5.57	414244-4
	PC Board Jack, Vertical, Tin-Lead			A32322-ND◆	5.45	4.69	5414244-4
23	Jack, Right Angle, Front: Nickel, Rear: Tin-Lead	Commercial	—	A32319-ND◆	7.60	6.54	5221014-1
			Tools				
	Crimp Tool, 50 Ohm, Hex/Commercial with Die Set		174, 316, 188, 179, 161, 187, RG 316, 188 Double Braid	A9808-ND	135.60	—	58500-1
	Die Set Hex/Commercial 50 Ohm		178, 196, 174, 316, 179, 161, 187,188	A9810-ND	1636.50	—	58046-1
	PRO CRIMPER™ II Hand Tool without Die, use with A9968 and A9809		—	A9996-ND	66.00	—	354940-1
	Die Set, Hex/Commercial, use with A9996		174, 179, 187	A9809-ND	74.24	—	58489-1
	Die Set, Mil Type Crimp, use with A9996		—	A9968-ND	104.54	—	58483-1

◆ ***RoHS Compliant*** ‡ Uses A9996-ND PRO-CRIMPER and A9968-ND Die † Uses A9996-ND PRO-CRIMPER and A9809-ND Die

Compression Coax Board-to-Board

RoHS COMPLIANT

Fig. 1

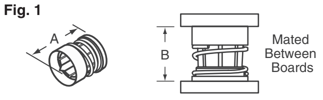

Fig. 2

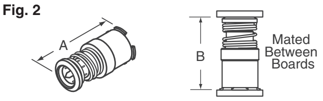

FEATURES: • Single connector design - no mating connectors needed • Available in four sizes for varied board spacing: 14mm, 10mm, 6.65mm and 4mm • Gold plated phosphor bronze and brass contacts, stainless steel springs

APPLICATIONS: • Modular parallel board-to-board blind mate applications • Base Station, Sub Station systems • PDA, PCS and Cellular Handset applications • Wireless Communications systems (GSM, PCS, WCDMA, UMTS)

SPECIFICATIONS: • **Characteristic Impedance:** 50Ω • **Frequency Range:** Up to 6GHz • **Operating Temperature:** -40°~125°C • **Mating Force:** 10N • **Durability:** 25 cycles • **Angle between Boards:** ± 2° max

Fig.	Dimension (A) (mm)	Mating Height (B) (mm)	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
1	4.65 ± 0.15	4.0 ± 0.3	A32525-ND	15.48	13.31	11.77	1658260-1
2	15.7 ± 0.3	14 ± 1	A32526-ND	17.93	15.42	13.63	619127-1
	11.4 ± 0.3	10 ± 1	A32527-ND	17.55	15.10	13.34	619134-1
	7.75 ± 0.3	6.65 ± 0.4	A32528-ND	17.23	14.82	13.10	619135-1

BNC Coaxial Connectors Dual Crimp

MIL-C-39012 Class II - Cat. B

Fig. 1

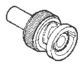

Fig. 2

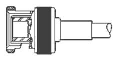

Fig. 3

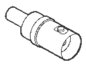

Fig. 4

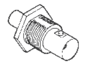

Fig.	Description	Center Contact	Body Plating	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.	Premium SDE Die Set†	Commercial Die Set†
1	Plug	Gold	Nickel	TEFLON	174, 188, 188A, 316	A32211-ND◆	3.70	3.19	5225395-7	A30571-ND	—
		Gold	Nickel	Polyethylene	174, 188, 188A, 316	A32212-ND◆	2.15	1.85	1-5227079-6	A30571-ND	—
		Gold	Silver	TEFLON	174, 188, 188A, 316	A24425-ND	7.88	6.78	2-331350-4	A30571-ND	—
		Gold	Silver	TEFLON	174, 188, 188A, 316	A33771-ND◆	7.23	6.22	8-331350-0	A30571-ND	—
		Gold	Nickel	TEFLON	161, 179, 179A, 179B, 187, 187A, Belden 9221	A32213-ND◆	3.66	3.15	5225395-8	A30571-ND	—
		Tin	Nickel	Polyethylene	161, 179, 179A, 179B, 187, 187A, Belden 9221	A32214-ND◆	2.63	2.27	2-5227079-0	A30571-ND	A24780-ND
		Gold	Nickel	Polyethylene	161, 179, 179A, 179B, 187, 187A, Belden 9221	A32215-ND◆	2.15	1.85	2-5227079-2	A30571-ND	A24780-ND
		Gold	Silver	TEFLON	161, 179, 179A, 179B, 187, 187A, Belden 9221	A24429-ND	8.55	7.36	2-331350-5	A30571-ND	—
		Gold	Silver	TEFLON	161, 179, 179A, 179B, 187, 187A, Belden 9221	A33772-ND◆	8.55	7.36	9-331350-3	A30571-ND	—
		Gold	Nickel	Polyethylene	RG 316, 188 Double Braid	A32216-ND◆	2.13	1.84	8-5227079-2	—	A24779-ND
		Gold	Silver	TEFLON	180, 180A, 180B, 195, 195A	A24434-ND	9.35	8.05	2-331350-6	A29143-ND	—
		Gold	Nickel	Polyethylene	Belden 9907, RG-141	A32217-ND◆	2.47	2.13	6-5227079-7	A24778-ND	A24570-ND
		Gold	Nickel	Polyethylene	Belden 89907	A32218-ND◆	2.13	1.84	6-5227079-8	—	A24781-ND
		Gold	Nickel	TEFLON	Beldon 8218	A32219-ND◆	3.70	3.19	1-5225395-0	A29143-ND	—
		Gold	Nickel	Polyethylene	Beldon 8218	A32220-ND◆	2.13	1.84	1-5227079-9	—	A24779-ND
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A32205-ND◆	3.70	3.19	5225395-1	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A32206-ND◆	3.66	3.15	5225395-2	A24776-ND	—
2	Plug	Gold	Nickel	Polyethylene	58, 58A, 58B, 58C	A32209-ND◆	2.15	1.85	5227079-5	A24778-ND	A24570-ND
		Silver	Nickel	Polyethylene	58, 58A, 58B, 58C	A1118-ND	3.90	3.36	227079-9	A24778-ND	A24570-ND
		Silver	Nickel	Polyethylene	58, 58A, 58B, 58C	A33773-ND◆	2.37	2.04	5227079-9	A24778-ND	A24570-ND
		Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24440-ND	7.43	6.39	2-331350-1	A24571-ND	A24777-ND
		Gold	Nickel	Polyethylene	Belden 88240, Berk-Tek BTDC-58, Comm/Scope 2135	A32221-ND◆	2.45	2.11	4-5227079-3	—	A24781-ND
		Gold	Nickel	TEFLON	Belden 88240, Berk-Tek BTDC-58, Comm/Scope 2135	A24443-ND	16.85	14.50	4-225395-2	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	55, 55A, 55B, 223	A32222-ND◆	3.70	3.19	5225395-3	A24571-ND	A24777-ND
		Gold	Nickel	Polyethylene	55, 55A, 55B, 223	A32223-ND◆	1.93	1.67	5227079-6	A24778-ND	A24570-ND
		Gold	Nickel	TEFLON	142, 142A, 142B, 400	A32224-ND◆	3.70	3.19	5225395-6	A24571-ND	A24777-ND
		Gold	Nickel	Polyethylene	142, 142A, 142B, 400	A32225-ND◆	3.03	2.61	6-5227079-1	A24778-ND	A24570-ND
		Gold	Silver	TEFLON	142, 142A, 142B, 400	A24448-ND	6.75	5.81	2-331350-9	—	A24777-ND
		Gold	Nickel	Polyethylene	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A32210-ND◆	2.51	2.17	5227079-7	—	A24570-ND
		Silver	Nickel	Polyethylene	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A1121-ND	2.33	2.01	1-227079-1	—	A24570-ND
		Silver	Nickel	Polyethylene	59, 59A, 59B, 62, 62A, 62B	A33774-ND◆	2.15	1.85	1-5227079-1	—	A24570-ND
		Gold	Silver	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A24449-ND	6.43	5.53	331350	A24776-ND	—
		Gold	Nickel	TEFLON	Belden 9104, 9112, 9167, 9240, 9259, 9266, Times FM-59	A32226-ND◆	4.28	3.68	2-5225395-0	A24776-ND	—
		Gold	Silver	TEFLON	Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A24457-ND	12.50	10.75	4-331350-0	A24631-ND	—
		Silver	Nickel	Polyethylene	59, 59A, 59B, 62, 62A, 62B, Belden 9209, 9291	A30561-ND	3.21	2.77	7-227079-2	A24775-ND	A24570-ND
		Silver	Nickel	Polyethylene	59, 59A, 59B, 62, 62A, 62B	A33776-ND◆	2.95	2.54	7-5227079-2	A24775-ND	A24570-ND
3	Cable Jack	Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A32207-ND◆	6.08	5.23	5225396-1	A24571-ND	A24777-ND
	Jack	Gold	Nickel	TEFLON	174, 188, 188A, 316	A32227-ND◆	6.15	5.29	5225396-7	A30571-ND	—
		Gold	Nickel	Polypropylene	174, 188, 188A, 316	A32228-ND◆	3.30	2.84	5228979-7	A30571-ND	A24780-ND
		Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24462-ND	10.83	9.31	2-331351-1	A24571-ND	A24777-ND
		Gold	Nickel	Polypropylene	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A32229-ND◆	3.30	2.84	5228979-6	A24775-ND	A24570-ND
		Gold	Silver	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A24464-ND	15.20	13.08	331351	A24776-ND	—
4	Bulkhead Jack	Gold	Nickel	TEFLON	174, 188, 188A, 316	A32230-ND◆	5.00	4.30	5225398-7	A30571-ND	—
		Gold	Nickel	Polypropylene	174, 188, 188A, 316	A32231-ND◆	4.18	3.60	5228980-7	A30571-ND	A24780-ND
		Gold	Silver	TEFLON	174, 188, 188A, 316	A24467-ND	10.55	9.08	1-331693-2	A30571-ND	—
		Gold	Silver	TEFLON	174, 188, 188A, 316	A33777-ND◆	10.55	9.08	6-331693-2	A30571-ND	—
		Gold	Nickel	TEFLON	161, 179, 179A, 179B, 187, 187A, Belden 9221	A32232-ND◆	5.80	4.99	5225398-8	A30571-ND	—
		Gold	Nickel	TEFLON	Times RD316	A32233-ND◆	5.00	4.30	1-5225398-5	A29143-ND	—
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A1111-ND	22.39	20.12	225398-1	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A32208-ND◆	5.90	5.08	5225398-1	A24571-ND	A24777-ND
		Gold	Nickel	Polypropylene	58, 58A, 58B, 58C	A32234-ND◆	4.03	3.47	5228980-5	A24778-ND	A24570-ND
		Gold	Nickel	TEFLON	55, 55A, 55B, 223	A32235-ND◆	5.00	4.30	5225398-3	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	142, 142A, 142B, 400	A32236-ND◆	5.80	4.99	5225398-6	A24571-ND	A24777-ND
	Right Plug	Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24474-ND	29.60	25.46	225973-1	A24571-ND	A24777-ND
		Gold	Silver	TEFLON	58, 58A, 58B, 58C	A32237-ND◆	26.65	22.92	5225973-1	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A32238-ND◆	24.03	20.67	5225974-1	A24571-ND	A24777-ND
		Gold	Silver	TEFLON	142, 142A, 142B, 400	A24477-ND	31.65	27.22	225973-4	A24571-ND	A24777-ND
		Gold	Silver	TEFLON	142, 142A, 142B, 400	A32239-ND◆	26.65	22.92	5225973-4	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A32240-ND◆	31.03	26.69	5225974-5	A24476-ND	—
Panel Insulation Bushings for Bulkhead Jacks (2 required)						A24479-ND◆	.63	.54	330620	—	—
BNC Premises Wire Kit						A9822-ND	152.72	—	58477-1	—	—

◆ *RoHS Compliant* † Use with A9996-ND

Fig. 1
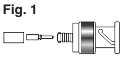

Fig. 2
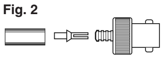

Fig. 3
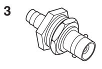

Fig. 4
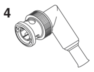

Fig. 5
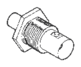

BNC Hex Crimp Connectors 50 Ohm

Collar and Outer Contacts: Nickel Plated **Center Contact:** Gold, MIL-G-45204

Fig.	Description	Body Plating	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.	Die for Hand Tools	Price Each
1	Plug	Nickel	Polymethylpentene	174, 188, 188A, 316	A32352-ND	2.58	2.23	2-5221128-1	A9995-ND	42.00
				179, 179A, 179B, 161, 187, Belden 9221	A32353-ND	2.57	2.21	2-5221128-3	A9995-ND	42.00
				Belden 9907, 89907, Commercial/Scope 2104	A32354-ND	2.57	2.21	2-5221128-7	A9994-ND	42.00
				58, 58A, 58B, 58C, Belden 88240, Berk-Tek, BTDC-58, Commercial/Scope 2135	A32350-ND	2.57	2.21	1-5221128-0	A9994-ND	42.00
				140, 210, 62, 62A, 62B, 59, 59A, 59B, 302, Belden 9291, 9209, 9269, 89269, 88241, Hi- Temp, 62A,Times PL-62, Berk-Tek BTDC-59, BTDC-62, 124	A32351-ND	2.95	2.55	1-5221128-1	A9994-ND	42.00
			Polypropylene	Belden 9104, 9240, 9112, 9167, 9259, 9266, Times FM-59	A32333-ND	2.95	2.55	1-5221128-7	A9994-ND	42.00
				174, 188, 188A, 316	A32358-ND	3.63	3.12	5413779-3	A9995-ND	42.00
2	Cable Jack	Nickel	Polymethylpentene	179, 179A, 197B, 161, 187, 187A, Belden 9221	A33778-ND	5.65	4.86	5413779-4	A9995-ND	42.00
				174, 188, 188A, 316	A32345-ND	4.63	3.98	5413771-3	A9995-ND	42.00
3	Bulkhead	Nickel	Polymethylpentene	58, 58A, 58B, 58C, Belden 88240, BerkTek BTDC-58, Commercial/Scope 2135	A32357-ND	6.35	5.47	5413771-1	A9994-ND	42.00
4	Plug Right Angle	Nickel	Polymethylpentene	174, 188, 188A, 316	A32360-ND	12.25	10.54	5413959-3	A9995-ND	42.00
				179, 179A, 179B, 161, 187, 187A, Belden 9221	A32346-ND	11.48	9.87	5413959-4	A9995-ND	42.00
				Belden 89907, 9907, Commercial/Scope 3104, 2104	A32347-ND	12.25	10.54	5413959-6	A9994-ND	42.00
				58, 58A, 58B, 58C	A32359-ND	12.08	10.39	5413959-1	A9994-ND	42.00
				Zinc Die Cast						
1	Plug	Nickel	Polymethylpentene	174A, 188A, 316, KX22A, KX3B, URM95	A97578-ND	2.10	1.81	5-1634500-0	A97886-ND	122.72
5	Bulkhead Jack	Nickel	Polyphthalamide	141A, 58C, Belden 9907, KX15, URM43, URM76	A97579-ND	1.48	1.27	5-1634500-3	A97886-ND	122.72
				58C, 141A, URM43, URM76, Belden 9907, KX15	A97573-ND	3.35	2.89	5-1634516-1	A97886-ND	122.72

BNC Single Crimp Connectors 50 Ohm

Center Contact: Gold, MIL Type

Fig.	Description	Body Plating	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.	Die for Hand Tools	Price Each
1	Plug	Silver	TEFLON	178, 178A, 178B, 196, 196A	A24401-ND	14.55	12.52	330876	—	—
		Silver	TEFLON	178, 178A, 178B, 196, 196A	A33779-ND◆	12.50	10.75	5330876	—	—
		Silver	Polypropylene	174, 188, 188A, 316	A24403-ND	21.08	18.13	2-330058-1	A31885-ND	569.64
		Silver	Polypropylene	174, 188, 188A, 316	A33780-ND◆	18.08	15.55	2-5330058-1	A31885-ND	569.64
		Silver	TEFLON	174, 188, 188A, 316	A24404-ND	16.43	14.13	2-330061-1	A31885-ND	569.64
		Silver	TEFLON	174, 188, 188A, 316	A33781-ND◆	14.13	12.15	2-5330061-1	A31885-ND	569.64
		Silver	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24405-ND	14.48	12.45	2-329446-1	A31885-ND	569.64
		Silver	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A33782-ND◆	12.45	10.71	2-5329446-1	A31885-ND	569.64
		Silver	Polypropylene	58, 58A, 58B, 58C	A32355-ND◆	10.90	9.38	2-5329082-1	A31207-ND	362.09
		Silver	TEFLON	58, 58A, 58B, 58C	A24407-ND	12.93	11.12	2-329444-1	A31207-ND	362.09
		Silver	TEFLON	58, 58A, 58B, 58C	A33783-ND◆	11.13	9.57	2-5329444-1	A31207-ND	362.09
		Silver	TEFLON	223, 55, 55A, 55B	A24409-ND	12.35	10.63	2-329444-2	A31206-ND	362.09
		Silver	TEFLON	223, 55, 55A, 55B	A33784-ND◆	11.35	9.77	2-5329444-2	A31206-ND	362.09
		Silver	TEFLON	142, 142A, 142B, 400	A24410-ND	14.18	12.20	2-330358-2	—	—
		Silver	TEFLON	142, 142A, 142B, 400	A33785-ND◆	12.15	10.45	2-5330358-2	—	—
		Silver	Polypropylene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32356-ND◆	10.90	9.38	2-5329083-1	A9970-ND	240.89
		Silver	TEFLON	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24412-ND	12.10	10.41	2-329445-1	A9970-ND	240.89
		Silver	TEFLON	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A33786-ND◆	11.13	9.57	2-5329445-1	A9970-ND	240.89
2	Cable Jack	Nickel	TEFLON	174, 188, 188A, 316	A24413-ND	23.08	19.85	2-330062-1	A31885-ND	569.64
		Nickel	TEFLON	174, 188, 188A, 316	A33787-ND◆	20.23	17.40	2-5330062-1	A31885-ND	569.64
		Silver	TEFLON	142, 142A, 142B	A24415-ND	26.23	22.56	2-329452-2	A31206-ND	362.09
		Silver	TEFLON	142, 142A, 142B	A33788-ND◆	22.98	19.76	2-5329452-2	A31206-ND	362.09
4	Plug, Right Angle	Silver	TEFLON	58, 58A, 58B, 58C	A24420-ND	40.90	35.18	331175	A31207-ND	362.09
					A33789-ND◆	35.85	30.84	5331175	A31207-ND	362.09
5	Bulkhead Jack	Silver	Polypropylene	174, 188, 188A, 316	A24416-ND	21.95	18.88	2-330060-1	A31885-ND	569.64
		Silver	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24417-ND	31.43	27.03	2-329458-1	A31885-ND	569.64
		Silver	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A33791-ND◆	21.63	18.60	2-5329458-1	A31885-ND	569.64
		Silver	TEFLON	58, 58A, 58B, 58C	A24418-ND	25.25	21.72	2-329456-1	A31207-ND	362.09

◆ ***RoHS Compliant***

Bulkhead Solder Jacks Connectors 50 Ohm

Fig. 1

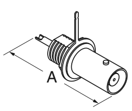

With Solder Terminal Shown

Fig. 2

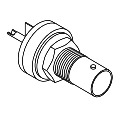

Fig. 3

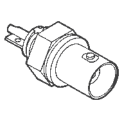

Fig. 4

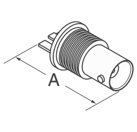

Fig.	Description	Dielectric	Dimension A Inch (mm)	Contact Material	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	Without Solder Terminal‡	VALOX	1.060 (26.93)	Silver	Nickel	A24520-ND	2.80	2.41	227754-3
	Without Solder Terminal‡	VALOX	1.060 (26.93)	Silver	Nickel	A33792-ND◆	2.58	2.22	5227754-3
	With Solder Terminal◊	VALOX	1.060 (26.93)	Silver	Nickel	A32344-ND◆	2.63	2.26	5227755-3
	With Solder Terminal◊	VALOX	1.312 (33.33)	Gold	Nickel	A24522-ND	2.25	1.94	227169-7
	With Solder Terminal◊	VALOX	1.312 (33.33)	Gold	Nickel	A32334-ND◆	2.10	1.81	5227169-7
	Without Solder Terminal‡	VALOX	1.060 (26.93)	Gold	Nickel	A32342-ND◆	1.78	1.53	5227754-2
	With Solder Terminal◊	VALOX	1.060 (26.93)	Gold	Nickel	A32343-ND◆	1.85	1.60	5227755-2
	Without Solder Terminal‡	VALOX	1.060 (26.93)	Tin-Lead	Nickel	A30562-ND	1.17	1.01	227754-1
	Without Solder Terminal‡	VALOX	1.060 (26.93)	Tin-Lead	Nickel	A33793-ND◆	.99	.86	5227754-1
	With Solder Terminal◊	VALOX	1.060 (26.93)	Tin-Lead	Nickel	A30563-ND	3.33	2.86	227755-1
	With Solder Terminal◊	VALOX	1.060 (26.93)	Tin-Lead	Nickel	A33794-ND◆	2.15	1.85	5227755-1
	With Solder Terminal◊	VALOX	1.312 (33.33)	Tin-Lead	Nickel	A33795-ND◆†	2.43	2.09	5227169-5
	With Solder Terminal◊	TEFLON	1.312 (33.33)	Gold	Nickel	A24525-ND	3.65	3.14	227169-8
	With Solder Terminal◊	TEFLON	1.312 (33.33)	Gold	Nickel	A32335-ND◆	3.30	2.84	5227169-8
	Without Solder Terminal‡	TEFLON	1.060 (26.93)	Gold	Nickel	A32337-ND◆	2.80	2.41	5227715-3
	With Solder Terminal◊	TEFLON	1.060 (26.93)	Gold	Nickel	A32338-ND◆	3.18	2.74	5227716-3
—	Lock Washer with Solder Lug	—	—	—	Tin/Lead	A33796-ND◆	.50	.43	9-227260-0
2	Sealed	Polymethylpentene	—	Gold	Nickel	A24528-ND	8.08	6.95	227426-1
						A32336-ND◆	7.43	6.39	5227426-1
3	Isolated	VALOX, White	—	Tin	Nickel	A32339-ND◆	2.90	2.50	5227726-1
	Isolated	VALOX, White	—	Silver	Nickel	A24530-ND	3.20	2.76	227726-2
	Isolated	VALOX, White	—	Silver	Nickel	A32340-ND◆	2.90	2.50	5227726-2
	Isolated	VALOX, White	—	Gold	Nickel	A32341-ND◆	2.60	2.24	5227726-3
	Zinc Die Cast — RoHS Compliant								
1	Solder Tag‡	Polymethylpentene	1.074 (27.30)	Gold	Nickel	A97548-ND	1.68	1.45	5-1634523-1
	With Solder Terminal‡	Polyester, PBT	1.059 (26.90)	Gold	Nickel	A97550-ND	2.75	2.37	5-1634504-1
4	Edge Mount‡	Polymethylpentene	0.956 (24.28)	Gold	Nickel	A97549-ND	3.00	2.58	5-1634521-1

◆ ***RoHS Compliant*** ‡ Includes lockwasher and jam nut ◊ Includes solder terminal and jam nut † This part may be used with a panel thickness of 0.046-0.250 inches

BNC Field Serviceable Plug Connectors

50 Ohm

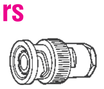

Center Contact: Gold

Body Plating	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Silver	58, 58A, 58B, 58C, 141, 141A, 303, 222, 55, 55A, 55B, 142, 142A, 142B, 400	A24480-ND	26.45	22.75	221265-1
Nickel	58, 58A, 58B, 58C, 141, 141A, 303, 222, 55, 55A, 55B, 142, 142A, 142B, 400	A24481-ND◆	21.30	18.32	1-221265-0
	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269, 89269, 88241 Hi-Temp 62A, Times PL-62, Berk-Tek, BTDC-59, BTDC-62, 302, 71, 71A, 71B	A24482-ND◆	22.93	19.72	1-221265-1

◆ ***RoHS Compliant***

BNC PC Board/Panel Mount Jack Connectors with Mounting Flanges

50 Ohm

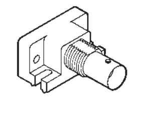

Hardware Sold Separately

Description	Center Contact	Mount. Height Inch (mm)	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Right Angle	Tin	.625 (15.88)	VALOX, White	A32242-ND	9.40	8.09	5226978-1
Right Angle	Gold	.625 (15.88)	VALOX, White	A32252-ND	9.40	8.09	5226978-3

BNC PC Board/Panel Mount Right Angle Jack Connectors

50 Ohm

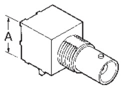

Hardware Sold Separately

Description	Center Contact	Mount. Height A Inch (mm)	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Without Mounting Posts	Tin	.625 (15.88)	VALOX, White	A32253-ND◆	3.30	2.84	5226990-1
With Mounting Posts	Tin	.625 (15.88)	VALOX, White	A32244-ND◆	2.43	2.10	5227161-1
Without Mounting Posts	Gold	.625 (15.88)	VALOX, White	A32254-ND◆	2.83	2.44	5226990-3
With Mounting Posts	Gold	.625 (15.88)	VALOX, White	A32258-ND◆	2.43	2.10	5227161-3
With Mounting Posts	Gold	.519 (13.18)	VALOX, White	A32260-ND◆	2.43	2.10	5227161-7
With Mounting Posts	Tin	.625 (15.88)	VALOX, Black	A32245-ND◆	2.43	2.10	5227161-2
Without Mounting Posts	Gold	.625 (15.88)	VALOX, Black	A32255-ND◆	2.83	2.44	5226990-6
With Mounting Posts	Gold	.625 (15.88)	VALOX, Black	A32259-ND◆	2.43	2.10	5227161-6
With Mounting Posts	Gold	.519 (13.18)	VALOX, Black	A32261-ND◆	2.43	2.10	5227161-9
Without Mounting Posts	Tin	.625 (15.88)	Metal	A32264-ND◆	9.43	8.11	5227433-1
With Mounting Posts	Tin	.625 (15.88)	Metal	A32248-ND◆	3.28	2.83	5227661-1
Without Mounting Posts	Gold	.625 (15.88)	Metal	A32267-ND◆	3.37	2.90	5227676-1
With Mounting Posts	Gold	.625 (15.88)	Metal	A24499-ND	3.48	2.99	227677-1
With Mounting Posts	Gold	.625 (15.88)	Metal	A32268-ND◆	3.28	2.83	5227677-1
With Mounting Posts	Gold	.500 (12.70)	Metal	A32273-ND◆	5.83	5.01	5413879-1
Zinc Die Cast — RoHS Compliant							
With Mounting Posts	Gold	.518 (13.16)	Zinc, White	A97552-ND	2.43	2.09	1-1337542-0
With Mounting Posts	Gold	.622 (15.80)	Zinc, White	A97553-ND	2.43	2.09	1-1337543-0
With Mounting Posts	Gold	.518 (13.16)	Zinc, Black	A97554-ND	2.43	2.09	1-1634613-0
With Mounting Posts	Gold	.622 (15.80)	Zinc, Black	A97555-ND	2.43	2.09	1-1634612-0
With Mounting Posts	Gold	.598 (15.20)	Zinc	A97556-ND	3.80	3.27	1-1337494-0

◆ ***RoHS Compliant***

BNC PC Board/Panel Mount Vertical Jack Connectors

50 Ohm

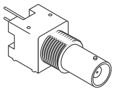

Hardware Sold Separately

Description	Center Contact	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Without Mounting Posts	Tin-Lead	VALOX, White	A24501-ND	8.85	7.62	226993-1
Without Mounting Posts	Tin	VALOX, White	A32256-ND◆	7.98	6.86	5226993-1
With Mounting Posts	Tin	VALOX, White	A32246-ND◆	2.43	2.10	5227222-1
Without Mounting Posts	Gold	VALOX, White	A32257-ND◆	7.98	6.86	5226993-3
With Mounting Posts	Gold	VALOX, White	A32262-ND◆	2.43	2.10	5227222-3
Without Mounting Posts	Tin	VALOX, Black	A32243-ND◆	9.20	7.92	5226993-2
With Mounting Posts	Tin	VALOX, Black	A32247-ND◆	4.03	3.47	5227222-2
With Mounting Posts	Gold	VALOX, Black	A32263-ND◆	4.03	3.47	5227222-6
With Mounting Posts	Tin	Metal	A32265-ND◆	3.90	3.36	5227671-1
With Mounting Posts	Gold	Metal	A32266-ND◆	2.80	2.41	5227673-1
Zinc Die Cast — RoHS Compliant						
With Mounting Posts	Gold	Zinc, White	A97557-ND	2.53	2.18	1-1337541-0
With Mounting Posts	Gold	Zinc, Black	A97558-ND	2.53	2.18	1-1634505-0

◆ ***RoHS Compliant***

Jack Accessories 50 and 75 Ohm

Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Insulating Bushing for Mounting Jacks, Nylon	A24532-ND◆	.43	.37	222163-1
Insulating Bushing for Bulkhead Solder Jacks	A24533-ND◆	.23	.20	227223-1
Screw for panel thickness of 3/32 (2.38mm) or greater	A24534-ND	.35	.31	221108-2
Screw for panel thickness of less than 3/32 (2.38mm)	A24535-ND	.35	.31	221108-4
Lockwasher	A1129-ND◆	.29	.27	1-329632-2
Hex Nut	A1128-ND◆	.31	.28	1-329631-2
Zinc Die Cast — RoHS Compliant				
BNC/TNC Hexagonal Nut	A97566-ND	.24	.21	1-1634816-0
BNC/TNC Lockwasher	A97567-ND	.18	.16	1-1634817-0

◆ ***RoHS Compliant***

BNC Vertical Metallized PC Board Mount Jack Connectors 50 Ohm

Fig. 1

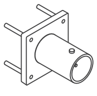

Fig. 2

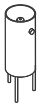

Fig. 3

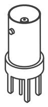

Fig.	Body Plating	Center Contact	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Nickel	Silver	VALOX	A24512-ND	4.28	3.69	227699-1
	Nickel	Silver	VALOX	A33798-ND◆	3.94	3.39	5227699-1
	Nickel	Gold	VALOX	A32269-ND◆	3.94	3.39	5227699-2
	Nickel	Tin	VALOX	A32249-ND◆	3.94	3.39	5227699-3
2	Nickel	Gold	VALOX	A24515-ND	6.05	5.21	221123-2
	Nickel	Gold	VALOX	A32241-ND◆	3.83	3.29	5221123-2
3	Nickel	Silver	VALOX	A24516-ND	5.65	4.86	222420-1
	Nickel	Silver	VALOX	A32251-ND◆	6.23	5.36	5222420-1
	Tin-Lead	Silver	VALOX	A24517-ND	5.23	4.50	414305-1
	Tin	Silver	VALOX	A32493-ND◆	4.80	4.13	5414305-1
Zinc Die Cast — RoHS Compliant							
3	Nickel	Gold	Zinc	A97581-ND	1.80	1.55	5-1634503-1
	Nickel	Gold	Zinc	A97583-ND	1.78	1.53	5-1634506-1

◆ ***RoHS Compliant***

BNC Press-Fit Terminal Jack Connectors

50 Ohm

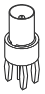

Body Plating	Center Contact	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Nickel	Gold	TEFLON	A32250-ND	5.00	4.30	5222006-1

BNC Right-Angle PC Board Mount Jack Connectors

Fig. 1

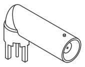

Fig. 2

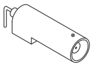

Fig.	Body Plating	Center Contact Length - In (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Nickel	.171 (4.34)	A32270-ND◆	6.60	5.68	5413631-1
	Tin	.171 (4.34)	A32271-ND◆	6.55	5.64	5413631-2
	Nickel	.131 (3.33)	A32272-ND◆	8.03	6.91	5413631-3
	Nickel	.131 (3.33)	A97570-ND◆†	3.43	2.95	5-1634556-0
2	Nickel	—	A24539-ND	3.15	2.71	414373-1
	Nickel	—	A32274-ND◆	2.66	2.29	5414373-1

◆ ***RoHS Compliant*** † Zinc Die Cast

BNC Twist-On Connectors

50 Ohm

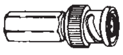

Center Contact: Gold **Body Plating:** Nickel

Description	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Plug	Polymethylpentene	59, 59A, 59B	A24483-ND	5.23	4.50	414265-3
			A33797-ND◆	4.50	3.87	5414265-3

◆ ***RoHS Compliant***

Fig. 1

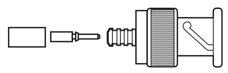

Fig. 2

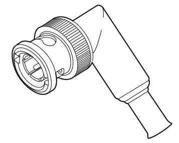

Fig. 3

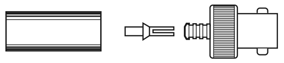

Fig. 4

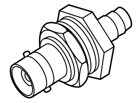

BNC Dual Crimp Connectors 75 Ohm

Body Plating: Nickel **Center Contacts:** Gold

RoHS COMPLIANT

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.	Dies for Pro-Crimper	Price Each
1	Plug	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32275-ND	2.76	2.38	5221185-8	A24630-ND	203.78
		AT&T 735A	A32276-ND	3.15	2.72	1-5221185-8	A24632-ND	333.30
		Belden 8218	A32277-ND	3.15	2.72	5221185-3	A24632-ND	333.30
		Belden 1164A, 1167A	A33805-ND	2.76	2.38	1-5221185-5	A24632-ND	333.30
		140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32278-ND	2.76	2.38	5221185-2	A24597-ND	119.69
	Plug	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A32279-ND	2.74	2.36	5221185-9	A24597-ND	119.69
	Plug	Belden 9145, AT&T 734A	A32280-ND	2.74	2.36	1-5221185-0	A24597-ND	119.69
		Belden 9248, 9114	A32281-ND	2.76	2.38	5221185-1	A36219-ND	149.99
		6, 6A (RG-6)	A32282-ND†	3.39	2.92	5221185-7	A24631-ND	149.99
		Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A32283-ND	2.79	2.41	5221185-5	A24631-ND	149.99
2	Right Angle Plug	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32284-ND	14.68	12.63	5221402-2	A24597-ND	119.69
3	Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32285-ND	5.40	4.65	5221199-5	A24630-ND	203.78
4	Bulkhead Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32286-ND	5.80	4.99	5221221-5	A24630-ND	203.78

† 20 AWG Center Conductor Max

BNC Hex Crimp Connectors 75 Ohm

Collar and Outer Contacts: Nickel Plated **Center Contacts:** Gold

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.	Dies for Hand Tools	Price Each
1	Plug	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32287-ND◆	4.05	3.49	5413589-8	A9993-ND	42.00
		AT&T 735A	A32288-ND◆	4.13	3.55	1-5413589-0	A9992-ND	42.00
		Belden 8218	A1823-ND	5.63	4.84	413589-3	—	—
		Belden 8218	A33806-ND◆	4.05	3.49	5413589-3	—	—
		140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32289-ND◆	4.05	3.49	5413589-2	A9992-ND	42.00
	Plug	302, Belden 89269, 88241, Hi-Temp 62A, Times PL-62, Berk Tek BTDC-59, BTDC-62	A33807-ND◆	4.73	4.07	5413589-1	A9992-ND	42.00
	Plug	Belden 8212, 9104, 9112, 9167, 9240, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A1829-ND	4.40	3.79	413589-9	A9992-ND	42.00
			A33808-ND◆	4.05	3.49	5413589-9	A9992-ND	42.00
	Plug	Belden 9145, AT&T 734A	A1827-ND	4.70	4.05	413589-7	A9992-ND	42.00
		Belden 9145, AT&T 734A	A33809-ND◆	4.05	3.49	5413589-7	A9992-ND	42.00
		Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A1825-ND	5.73	4.93	413589-5	—	—
		Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A33810-ND◆	4.20	3.62	5413589-5	—	—
2	Plug, Right Angle	179, 179A, 179B, 187, 187A, 161, Belden 9221	A1873-ND	18.80	16.17	413588-8	A9993-ND	42.00
		179, 179A, 179B, 187, 187A, 161, Belden 9221	A33811-ND◆	16.20	13.94	5413588-8	A9993-ND	42.00
		AT&T 735A	A32290-ND◆	15.85	13.64	1-5413588-0	—	—
		AT&T KS 19224 L2	A1876-ND	22.08	18.99	413588-4	A9993-ND	42.00
		140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1872-ND	14.25	12.26	413588-2	—	—
		140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32291-ND◆	15.10	12.99	5413588-2	—	—
	Plug, Right Angle	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A32292-ND◆	15.10	12.99	5413588-9	A9992-ND	42.00
3	Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32293-ND◆	5.78	4.97	5413760-8	A9993-ND	42.00
		Belden 8218	A32294-ND◆	5.78	4.97	5413760-3	A9992-ND	42.00
	Jack	302, Belden 89269, 88241, Hi-Temp 62A, Times PL-62, Berk Tek BTDC-59, BTDC-6	A1831-ND	6.28	5.40	413760-1	A9992-ND	42.00
	Jack	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A32295-ND◆	6.20	5.34	5413760-9	A9992-ND	42.00
4	Bulkhead Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A1848-ND	6.68	5.75	413590-8	A9993-ND	42.00
		179, 179A, 179B, 187, 187A, 161, Belden 9221	A33813-ND◆	6.23	5.36	5413590-8	A9993-ND	42.00
		AT&T KS 19224 L2	A32296-ND◆	5.95	5.12	5413590-4	A9993-ND	42.00
		Belden 8218	A1843-ND	9.03	7.77	413590-3	A9992-ND	42.00
		Belden 8218	A33814-ND◆	8.33	7.16	5413590-3	A9992-ND	42.00
		Zinc Die Cast — RoHS Compliant						
1	Plug	140, 210, 59B, 62A, KX25, KX52, KX53, KX6A, URM90	A97580-ND	1.55	1.34	5-1634502-3	A97886-ND	122.72
3	Straight Jack	140, 210, 59B, 62A, KX25, KX52, KX53, KX6A, URM90	A97577-ND	2.28	1.96	5-1634514-0	A97886-ND	122.72
		174A, 188A, 316, KX22A, KX3B, URM95	A97576-ND	2.18	1.88	5-1634511-2	A97886-ND	122.72
	Bulkhead Jack	59B, 62A, 140, 210, URM90, KX6A, KX25, KX52, KX53	A97574-ND	3.75	3.23	5-1634516-5	A97886-ND	122.72

◆ ***RoHS Compliant***

Tyco Electronics AMP
Authorized Distributor

RF Connectors

BNC Bulkhead Jack Connectors

75 Ohm

Center Contact: Gold

Fig. 1
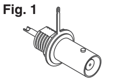

Fig. 2
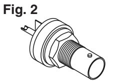

Fig. 3
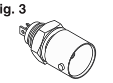

Fig.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Jack, Solder, Nickel	A24598-ND	3.93	3.38	221244-1
		A33815-ND◆	3.58	3.08	5221244-1
2	Jack, Sealed Solder, Nickel	A24599-ND	7.80	6.71	414217-1
		A32348-ND◆	7.18	6.18	5414217-1
3	Jack, Solder, Nickel	A97551-ND◆	2.85	2.46	5-1634504-2

◆ *RoHS Compliant*

BNC PC Board/Panel Mount Jack Connectors

75 Ohm

Hardware not included

RoHS COMPLIANT

Fig. 1
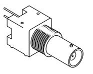

Fig. 2
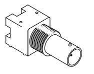

Fig.	Description	Contact Finish	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Vertical, Metal	Gold 30µ	A32401-ND	8.30	7.14	5222132-1
2	Right Angle, VALOX, White	Gold 30µ	A32402-ND	9.08	7.81	5413194-1
	Right Angle, VALOX, Black	Gold 30µ	A32403-ND	9.08	7.81	5413194-2
	Right Angle, VALOX, White	Gold 50µ	A32404-ND	10.68	9.19	5414459-1
	Right Angle, Metal	Gold 30µ	A32405-ND	5.85	5.04	5222092-1
	Right Angle, Nickel	Gold 30µ	A33816-ND	5.85	5.04	5414907-1
	Zinc Die Cast					
1	Vertical, Nickel	Gold	A97564-ND	2.53	2.18	1-1478033-0
	Vertical, Nickel	Gold	A97565-ND	2.53	2.18	1-1634629-0
2	Right Angle, Nickel	Gold	A97559-ND	2.53	2.18	1-1478031-0
	Right Angle, Nickel	Gold	A97560-ND	2.53	2.18	1-1478032-0
	Right Angle, Nickel	Gold	A97561-ND	2.53	2.18	1-1634624-0
	Right Angle, Nickel	Gold	A97562-ND	2.53	2.18	1-1634622-0
	Right Angle, Nickel	Gold	A97563-ND	3.20	2.76	1-1634508-0

BNC PC Board Mount Jack Connectors 75 Ohm

Center Contact: Gold (except A24607-ND: Silver)

Fig. 1
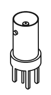

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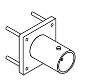

Fig. 3
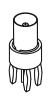

Fig. 4
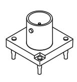

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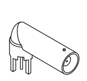

Fig. 6
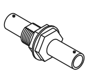

Fig.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Vertical Metallized, Tin-Lead	A32406-ND◆	4.58	3.94	5414394-1
2	Vertical Metallized, Nickel	A32407-ND◆	6.43	5.53	5413986-1
3	Press Fit, Nickel, L (excl. pins): .810	A24608-ND	5.13	4.41	222462-1
	Press Fit, Nickel, L (excl. pins): .810	A32408-ND◆	5.13	4.41	5222462-1
	Press Fit, Nickel, L (excl. pins): .640	A24609-ND	6.80	5.85	414088-1
	Press Fit, Nickel, L (excl. pins): .640	A32409-ND◆	7.03	6.05	5414088-1
4	Vertical Metallized (PCB: .125 min.)	A32410-ND◆	10.00	8.60	5221336-3
5	Right Angle, Nickel	A32411-ND◆	6.70	5.77	5413558-1
	Right Angle, Tin-Lead	A24612-ND	11.20	9.64	413558-2
	Right Angle, Tin-Lead	A32492-ND◆	9.83	8.45	5413558-2
6	Bulkhead Jack Adapter, Nickel	A24613-ND	10.68	9.19	222117-1
	Bulkhead Jack Adapter, Nickel	A33817-ND◆	10.10	8.69	5222117-1
	Zinc Die Cast— RoHS Compliant				
1	Vertical Metallized, Nickel	A97582-ND	1.80	1.55	5-1634503-3
	Vertical Metallized, Nickel	A97584-ND	1.83	1.57	5-1634506-2
5	Elbow Socket, Nickel	A97569-ND	2.90	2.50	5-1634513-1

◆ *RoHS Compliant*

BNC Action Pin / Bulkhead Decoupled Jack Connector

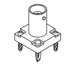

Body Plating: Nickel **Center Contact:** Gold

Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Jack, PC Board Action Pin, 50 Ohm	A24627-ND	16.08	13.83	414553-1

BNC RF PC Board / Panel Mount Decoupled Jack Connectors

50 Ohm

Body Plating: VALOX, Black **Center Contact:** Gold
Hardware not included

Fig. 1
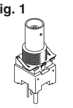

Fig. 2
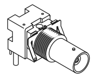

Fig.	Impedance Ohm	Mounting Post Length (Inches)	Capacity/Voltage	Digi-Key Part No.	Price Each 1	25	AMP Part No.
			Vertical — RoHS Compliant				
1	50	.137	9400pF / 1500V	A32414-ND	7.55	6.50	5413476-2
			Low Profile, Right Angle				
2	50	.158	9400pF / 1500V	A32415-ND◆	4.14	3.56	5413515-2
	50	.110	7900pF / 1600V	A32416-ND◆	4.76	4.09	5413515-7
	50	.185	9400pF / 1500V	A24621-ND	3.73	3.21	413515-8
	50	.185	9400pF / 1500V	A32417-ND◆	4.07	3.51	5413515-8
	50	.110	9400pF / 1500V	A32418-ND◆	4.14	3.56	5413515-9
			Standard, Right Angle				
2	50	.158	9400pF / 1500V	A32419-ND◆	4.90	4.22	5413524-2
	50	.110	9400pF / 1500V	A24625-ND	6.23	5.36	413524-5
	50	.110	9400pF / 1500V	A32420-ND◆	5.58	4.80	5413524-5

◆ *RoHS Compliant*

Terminator Plugs

50, 75, 93 Ohm

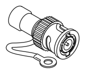

Body Plating: Nickel **Center Contact:** Gold

Description	Resistor Specification	Digi-Key Part No.	Price Each 1	25	AMP Part No.
With Tether	1 Watt, 50 Ohm	A24563-ND	9.58	8.24	221629-1
With Tether	1 Watt, 50 Ohm	A33818-ND◆	8.38	7.21	5221629-1
Without Tether	1 Watt, 50 Ohm	A24564-ND	7.05	6.07	221629-4
Without Tether	1 Watt, 50 Ohm	A33819-ND◆	6.20	5.34	5221629-4
With Tether	1 Watt, 75 Ohm	A24565-ND	18.43	15.85	221629-2
With Tether	1 Watt, 75 Ohm	A33820-ND◆	15.85	13.64	5221629-2
Without Tether	1 Watt, 75 Ohm	A24566-ND	11.05	9.51	221629-5
Without Tether	1 Watt, 75 Ohm	A33821-ND◆	9.53	8.20	5221629-5
With Tether	1 Watt, 50 Ohm‡	A24568-ND	9.95	8.56	1-221629-6
With Tether	1 Watt, 50 Ohm‡	A33822-ND◆	8.70	7.49	1-5221629-6

◆ *RoHS Compliant* ‡ Tether is conductive with #4 stud size.

Twin BNC and Twin-Ax Jack Connectors

Fig. 1
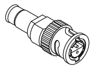

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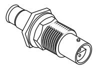

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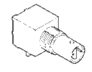

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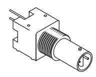

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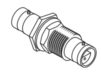

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Plug, Silver‡	108, 108A, Belden 9272, 89272	A24705-ND	26.70	22.97	332225
	Plug, Silver‡		A33824-ND◆	24.08	20.71	5332225
	Plug, Nickel‡		A24706-ND	20.68	17.79	332225-5
	Plug, Nickel‡		A33825-ND◆	19.03	16.37	5332225-5
2	Bulkhead Jack, Silver‡	108, 108A, Belden 9272, 89272	A24707-ND	31.38	26.99	332342
	Bulkhead Jack, Silver‡		A33826-ND◆	28.28	24.32	5332342
3	Right-Angle Jack w/Mounting Posts, VALOX, White	—	A24708-ND†	13.15	11.31	228686-1
			A32412-ND◆†	12.10	10.41	5228686-1
4	Vertical Jack w/Mounting Posts, VALOX, White	—	A24709-ND†	26.20	22.54	221198-1
			A32413-ND◆†	23.65	20.34	5221198-1
5	Bulkhead Jack Adapter, Nickel (Center Contact: Silver)	—	A24710-ND	31.08	26.73	332215
			A33827-ND◆	26.68	22.95	5332215

◆ *RoHS Compliant* ‡ Center contact: Silver † Hardware not included

Mini BNC Connectors 75 Ohm

RoHS COMPLIANT

Features: • Offer 40% more interconnects than standard BNC connectors in the same area • Ideal for telecommunications and broadband applications **Materials:** • Brass/nickel shells, bodies and mounting nuts • Phosphor bronze and brass/gold center contacts **Specifications:** • Dielectrics: PTFE • Frequency: DC 2GHz • Nominal Impedance: 75Ω • Voltage Rating: 300V • Temperature Rating: -40°C ~ 85°C

Fig. 1
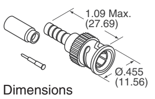

Dimensions
in Inches (mm)

Fig. 2
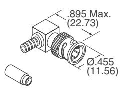

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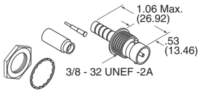

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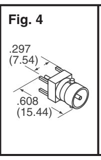

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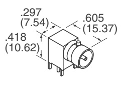

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	100	AMP Part No.
1	Straight Cable Plug	735A	A30530-ND	11.13	7.57	1274563-1
		734A	A30531-ND	10.98	7.47	1274563-2
		RG 179	A30532-ND	13.55	9.22	1274563-3
2	Right Angle Cable Plug	735A	A30533-ND	12.40	8.44	1274566-1
		734A	A30534-ND	12.18	8.28	1274566-2
		RG 179	A30535-ND	12.18	8.28	1274566-3
3	Bulkhead Cable Jack	735A	A30536-ND	7.98	5.43	1274568-1
		734A	A30537-ND	7.80	5.31	1274568-2
		RG 179	A30538-ND	7.80	5.31	1274568-3
4	Straight Jack Receptacle	—	A30539-ND	7.03	4.78	1274571-1
5	Right Angle Jack Receptacle	—	A30540-ND	8.90	6.06	1274572-1
Die Set for 735A/RG179, use with A9996-ND			A9993-ND	42.00	—	58425-2
Die Set for 734A, use with A9996-ND			A9992-ND	42.00	—	58425-1

Authorized Distributor

RF Connectors BNC Adapters 50 Ohm

Fig.	Description	Body Material and Plating	Center Contact Material and Plating	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Tee, Jack-Plug-Jack	Brass, Nickel	BE CU, Gold (30µ)	A24549-ND◆	17.15	14.75	221543-2
	Tee, Jack-Plug-Jack	Zinc, Nickel	PH BR, Gold (15µ)	A24550-ND	7.65	6.58	413592-2
	Tee, Jack-Plug-Jack	Zinc, Nickel	PH BR, Gold (15µ)	A32524-ND◆	6.58	5.66	5413592-2
	Tee, Jack-Plug-Jack	Zinc, Nickel	BE CU, Gold (30µ)	A24551-ND	9.85	8.48	413592-6
	Tee, Jack-Plug-Jack	Zinc, Nickel	BE CU, Gold (30µ)	A33800-ND◆	8.48	7.29	5413592-6
2	Tee, Jack-Jack-Jack	Brass, Nickel	BE CU, Silver (200µ)	A24553-ND◆	18.20	15.66	221988-1
3	Right Angle, Jack-Plug	Nickel	Silver	A24554-ND	22.90	19.70	329517
	Right Angle, Jack-Plug	Nickel	Silver	A33801-ND◆	21.43	18.43	5329517
4	Bulkhead Jack, Jack-Jack	Nickel	Silver	A24556-ND◆	20.05	17.25	330024
	Bulkhead Jack, Jack-Jack	Nickel	Gold (50µ)	A24557-ND	7.95	6.84	228226-1
	Bulkhead Jack, Jack-Jack	Nickel	Gold (50µ)	A33802-ND◆	7.15	6.15	5228226-1
	Bulkhead Jack, Jack-Jack	Nickel	Gold (15µ)	A24558-ND	6.88	5.92	228226-3
	Bulkhead Jack, Jack-Jack	Nickel	Gold (15µ)	A33803-ND◆	5.90	5.08	5228226-3
5	Jack Covers	Silver	—	A24559-ND◆	7.00	6.02	330022
6	Feed-Thru, Jack-Jack	Nickel	Silver	A24560-ND◆	8.43	7.25	221551-1
	Feed-Thru, Jack-Jack	Nickel	Gold	A24561-ND◆	8.93	7.68	221551-3
	Feed-Thru, Jack-Jack	Nickel	Gold	A33804-ND◆	3.63	3.12	5414414-1
Zinc Die Cast — RoHS Compliant							
1	Tee, Jack-Plug-Jack	Zinc, Nickel	Brass, Gold	A97571-ND	2.58	2.22	5-1634532-1
2	Tee, Jack-Jack-Jack	Zinc, Nickel	Phosphor Bronze, Gold	A97572-ND	3.25	2.80	5-1634535-1
3	Right Angle, Jack-Plug	Zinc, Nickel	Phosphor Bronze, Gold	A97568-ND	3.90	3.36	5-1634526-1
4	Bulkhead Jack, Jack-Jack	Zinc, Nickel	Phosphor Bronze, Gold	A97547-ND†	2.90	2.50	5-1634530-1
6	Straight, Jack-Jack	Zinc, Nickel	Phosphor Bronze, Gold	A97575-ND	2.18	1.88	5-1634534-1

◆ ***RoHS Compliant*** † Recommended nut (A97566-ND) and lockwasher (A97567-ND).

Fig. 1

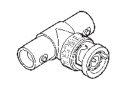

Fig. 2

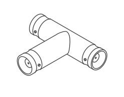

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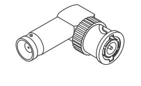

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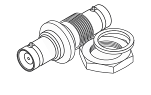

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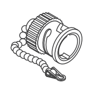

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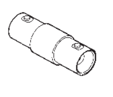

MMCX Connectors

Fig.	Description	Digi-Key Part No.	Pricing 1	25	50	AMP Part No.
Semi-Rigid Cable - Direct Solder Attachment						
1	Straight Cable Plug - RG 405	A30732-ND	6.73	144.59	255.55	1408313-1
2	Right Angle Cable Plug - RG 405	A30733-ND	8.00	172.00	304.00	1408314-1
Flexible Cable - Crimp Attachment						
3	Straight Cable Plug - RG 178, 196	A30734-ND	6.73	144.59	255.55	1408148-1
4	Straight Cable Plug - RG 174, 188, 316	A30735-ND	6.73	144.59	255.55	1408312-1
	Straight Cable Plug - RD 316	A30736-ND	6.73	144.59	255.55	1408312-2
5	Right Angle Cable Plug - RG 178, 196	A30737-ND	8.00	172.00	304.00	1408149-1
	Right Angle Cable Plug - RG 174, 188, 316	A30738-ND	8.00	172.00	304.00	1408149-2
	Right Angle Cable Plug - RD 316	A30739-ND	8.00	172.00	304.00	1408149-3
Printed Circuit Board						
6	Straight Jack Receptacle	A30740-ND	6.88	147.81	261.25	1408150-1
7	Right Angle Jack Receptacle	A30741-ND	8.35	179.53	317.30	1408151-1
8	Straight Plug Receptacle	A30742-ND	8.00	172.00	304.00	1408496-1
Edge Mount						
9	Straight Jack Receptacle	A30743-ND	8.18	175.76	310.65	1408152-1
10	Straight Plug Receptacle	A30744-ND	10.45	224.68	397.10	1408120-1
Crimp Tool						
—	Die Set to use with A9996-ND	A30731-ND	265.13	—	—	1583696-1
	Pro-Crimper Hand Tool	A9996-ND	66.00	—	—	354940-1

Fig. 1

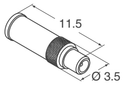

Fig. 2

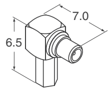

Fig. 3

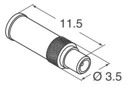

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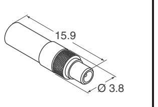

Fig. 5

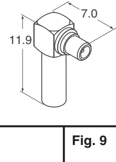

Fig. 6

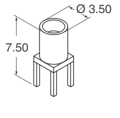

Fig. 7

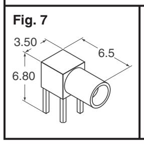

Fig. 8

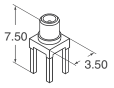

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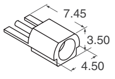

Fig. 10

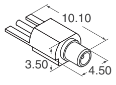

Between Series Adapters

Description	Contact Finish	Shell (Body) Finish	Digi-Key Part No.	Price Each 1	50	100	AMP Part No.
SMA Plug to N Jack	Copper	Gold	A34406-ND	67.75	51.49	46.07	1057381-1
SMA Plug to N Plug	Copper	Gold	A34410-ND	58.88	44.75	40.04	1057367-1
SMA Plug to SMB Jack	Copper	Gold	A34424-ND	45.38	34.49	30.86	1060487-1
SMA Jack to N Jack	Copper	Gold	A34409-ND	75.65	57.50	51.45	1057341-1
SMA Jack to N Jack	Copper	Gold	A34415-ND†	84.03	63.86	57.14	1058651-1
SMA Jack to N Jack Square Flange	Copper	Gold	A34419-ND	105.75	80.37	71.91	1058653-1
SMA Jack to N Jack Bulkhead	Brass	Gold	A34411-ND	70.60	53.66	48.01	1057463-1
SMA Jack to N Jack Bulkhead	Copper	Gold	A34412-ND	112.48	85.49	76.49	1058675-1
SMA Jack to OSP Plug Bulkhead	Copper	Gold	A34403-ND	51.93	39.47	35.31	1059756-1
SMA Jack to OSP Jack Panel	Copper	Gold	A34407-ND	85.08	64.66	57.86	1059731-1
SMA Jack to OSP Jack Panel	Copper	Gold	A34422-ND	74.65	56.74	50.77	1059724-1
SMA Jack to OSP Jack Bulkhead	Copper	Gold	A34430-ND	61.15	46.48	41.59	1059729-1
SMA Jack to OSP Jack Bulkhead	Copper	Gold	A34431-ND	80.25	60.99	54.57	1059733-1
SMA Jack to OSSP Jack	Copper	Gold	A34432-ND	109.30	83.07	74.33	1059928-1
SMA Jack to OSP Plug	Copper	Gold	A34420-ND	31.18	23.70	21.20	1059716-1
SMA Jack to OSSM Plug	Copper	Gold	A34417-ND	40.68	30.92	27.66	1053770-1
SMA Jack to OSMT Jack	Copper	Gold	A34423-ND	102.95	78.25	70.01	1055694-1
SMA Jack to SMC Jack	Copper	Gold	A34436-ND	48.00	36.48	32.64	1060266-1
SMA Jack to TNC Jack Square Flange	Copper	Gold	A34427-ND†	116.95	88.89	79.53	1058755-1
SMA Jack to TNC Jack Bulkhead	Copper	Gold	A34428-ND	190.05	144.44	129.24	1058800-1
SMA Jack to TNC Jack Bulkhead	Copper	Gold	A34438-ND	189.93	144.35	129.15	1059172-1
SMB Plug to BNC Jack	Copper	Gold	A34433-ND	53.60	40.74	36.45	1058077-1
SMB Plug to SMA Jack	Copper	Gold	A34414-ND	56.13	42.66	38.17	1060498-1
SMC Plug to SMA Jack	Copper	Gold	A34429-ND	53.68	40.80	36.50	1060272-1
BNC Jack to SMA Jack	Copper	Gold	A34418-ND	35.05	26.64	23.84	1058058-1
BNC Jack to SMA Jack Bulkhead	Copper	Gold	A34402-ND	47.50	36.10	32.30	1058117-1
BNC Jack to SMA Plug	Copper	Gold	A34404-ND	36.78	27.95	25.01	1058083-1
BNC Plug to N Jack	Brass	Gold	A34435-ND	124.18	94.38	84.44	1057392-1
BNC Plug to SMA Jack	Copper	Gold	A34405-ND	34.85	26.49	23.70	1058081-1
TNC Jack to SMA Jack Square Flange	Copper	Gold	A34408-ND	74.23	56.42	50.48	1057841-1
TNC Jack to SMA Jack Bulkhead	Copper	Gold	A34416-ND	127.73	97.08	86.86	1057908-1
TNC Plug to SMA Jack	Copper	Gold	A34413-ND	50.08	38.06	34.06	1057853-1
N Plug to SMA Jack	Copper	Gold	A34400-ND	58.75	44.65	39.95	1057377-1
N Jack to SMA Jack Square Flange	Copper	Gold	A34401-ND	82.25	62.51	55.93	1057343-1
N Jack to SMA Plug	Copper	Gold	A34421-ND†	96.65	73.46	65.73	1058664-1
N Jack to TNC Plug	Copper	Gold	A34425-ND†	117.23	89.10	79.72	1058671-1
N Jack to SMA Plug Square Flange	Copper	Gold	A34426-ND	80.80	61.41	54.95	1057385-1
N Plug to BNC Jack	Brass	Gold	A34434-ND	93.95	71.41	63.89	1057390-1
N Plug to TNC Plug	Brass	Gold	A34437-ND†	104.48	79.41	71.05	1058662-1

† High Frequency

A34400-ND Shown

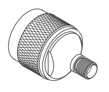

A34404-ND Shown

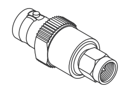

A34417-ND Shown

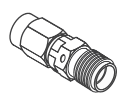

RF Connectors

Fig. 1 MIL Type
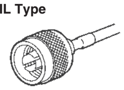

Fig. 2 Commercial Type
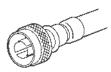

Fig. 3 MIL Type
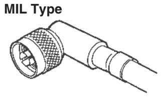

Fig. 4 MIL Type
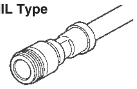

Fig. 5 MIL Type
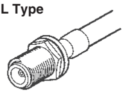

Fig. 6
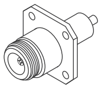

Fig. 7
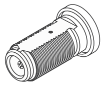

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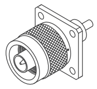

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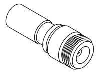

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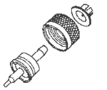

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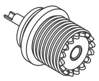

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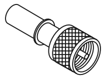

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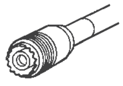

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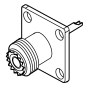

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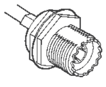

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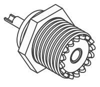

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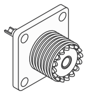

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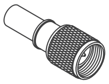

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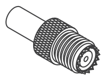

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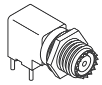

N Dual Crimp Connectors 50 Ohm

Center contact plating: Gold

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
			Dual Crimp			
1	Plug, Nickel Plug, Silver Plug, Silver	58, 58A, 58B, 58C	A32421-ND◆ A1148-ND A32800-ND◆	11.80 23.75 20.05	10.15 20.43 17.25	1-5225661-2 225361-1 5225361-1
	Plug, Nickel	223, 55, 55A, 55B	A32422-ND◆	11.80	10.15	1-5225661-3
	Plug, Silver	142, 142A, 142B, 400	A1151-ND A32801-ND◆	22.83 17.48	19.63 15.03	225361-4 5225361-4
	Plug, Nickel Plug, Nickel Plug, Silver Plug, Nickel, Weatherproof	8, 8A, 213	A1152-ND† A32423-ND◆† A1153-ND† A32424-ND◆†	16.10 13.53 18.90 15.23	13.85 11.64 16.26 13.10	225661-2 5225661-2 51692-2 5225662-2
	Plug, Silver	393	A1157-ND† A32802-ND◆†	24.53 28.00	21.10 24.08	1-225092-1 1-5225092-1
	Plug, Nickel	9, 9A, 9B, 214	A1158-ND† A32425-ND◆†	30.33 13.53	25.28 11.64	225661-1 5225661-1
2	Plug, Nickel, Weatherproof	142, 142A, 142B, 400	A32426-ND◆	18.93	16.28	5225699-1
	Plug, Nickel	8, 8A, 213	A32427-ND◆†	8.30	7.14	1-5227086-0
	Plug, Nickel	142 58A	A34385-ND◆ A34398-ND◆	19.98 19.98	17.18 17.18	5225392-2 5225392-7
3	Right Angle Plug, Nickel Right Angle Plug, Nickel Right Angle Plug, Silver	8, 8A, 213	A24654-ND† A32428-ND◆† A1137-ND†	43.93 37.03 53.43	37.78 31.85 45.95	225669-2 5225669-2 225014-2
	Right Angle Plug, Silver	9, 9A, 9B, 214	A1140-ND†	60.70	52.21	225014-3
	Jack, Nickel, Weatherproof	58, 58A, 58B, 58C	A32429-ND◆	21.80	18.75	1-5225664-2
4	Jack, Nickel, Weatherproof Jack, Silver	8, 8A, 213	A32430-ND◆† A1142-ND†	25.10 27.23	21.59 23.42	5225664-2 225093-2
			Semi-Rigid Cable Crimp — RoHS Compliant			
1	Plug, Nickel	402, 141	A24660-ND	42.28	36.36	228440-1
		58, 141, 303,	A34382-ND	26.70	22.97	1057243-1
		405	A34387-ND	36.63	31.50	1057094-1
		Belden 8214	A34389-ND	13.53	11.64	1-5225661-6
5	Bulkhead Jack, Nickel, Rear Mount	402, 141	A24661-ND	52.05	44.77	228658-1
	Bulkhead Jack, Nickel, Rear Mount	402	A34379-ND	43.35	37.29	1057159-1
6	Jack, Nickel	—	A34378-ND	16.15	13.89	1057290-1
	Bulkhead Jack, Nickel, Flange	402	A34380-ND	44.58	38.34	1057176-1
	Jack, Nickel, Square Flange	5	A34381-ND	36.15	31.09	1058644-1
	Jack, Nickel	—	A34384-ND	15.85	13.64	1057284-1
	Jack, Nickel, Square Flange, Tab	—	A34388-ND	17.23	14.82	1057293-1
	Jack, Nickel, Square Flange	.085	A34393-ND	71.65	61.62	1057178-1
7	Bulkhead Jack, Nickel	174, 179, 187,188,316 .085 .250 .141 141	A34383-ND A34391-ND A34392-ND A34395-ND A34396-ND	46.90 40.45 133.08 68.15 39.15	40.34 34.79 114.45 58.61 33.67	1057140-1 1057165-1 1057151-1 1057628-1 1057138-1
8	Plug, Nickel	— —	A34386-ND A34397-ND	20.20 21.68	17.38 18.65	1057279-1 1057277-1
—	Jack, Gold	.141	A34390-ND	41.95	36.08	1057116-1
—	Adaptor, Jack/Jack	—	A34394-ND	183.15	157.51	1057374-1
			Terminators			
9	Jack, Nickel	—	A24663-ND	24.30	20.90	227997-1

◆ ***RoHS Compliant*** † Uses Certi-Crimp: A24574-ND

UHF Connectors

Center contact plating: Tin

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
			Standard UHF Connectors — RoHS Compliant			
10	Plug, Single Crimp, Tin Plated	58, 58A, 58B, 58C	A32431-ND	11.78	10.13	5226279-1
			Standard UHF Connectors — Zinc Die Cast – RoHS Compliant			
11	Bulkhead Socket, Nickel Plated	—	A97595-ND	2.05	1.77	5-1814814-1
			Miniature UHF Connectors			
12	Plug, Dual Crimp, Nickel	58, 58A, 58B, 58C	A24671-ND	1.80	1.55	226600-1
13	Jack, Crimp. Nickel	58, 58A, 58B, 58C	A32432-ND◆	5.11	4.40	5226602-1
14	Panel Solder Jack, Nickel	—	A32433-ND◆ A35070-ND◆	4.93 5.40	4.24 4.65	5226601-1 5226601-3
15	Bulkhead Jack, Crimp, Nickel	174, 316, 188, 188A, 58, 58A, 58B, 58C	A24674-ND◆ A1105-ND A32434-ND◆	9.65 5.98 5.48	8.30 5.14 4.71	228665-2 414045-1 5414045-1
			Miniature UHF Connectors — Zinc Die Cast – RoHS Compliant			
16	Bulkhead Socket, Nickel Plated	—	A97596-ND	3.10	2.67	5-1814815-1
17	Panel Socket, Nickel Plated	—	A97597-ND	3.43	2.95	5-1814816-1
18	Straight Plug Hex, Nickel Plated	—	A97598-ND	2.05	1.77	5-1814818-1
19	Straight Jack Hex, Nickel Plated	—	A97599-ND	3.05	2.63	5-1814819-1
20	Elbow PCB Socket	—	A97600-ND	3.30	2.84	5-1814820-1

◆ ***RoHS Compliant***

F Connectors — Zinc Die Cast

RoHS COMPLIANT

Center contact plating: Nickel (except A97612-ND and A97613-ND: Tin over Copper)

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
21	Straight Plug Hex Crimp	59B, 62A, 140, 210, URM90, Belden 9291, 9291, KX6A, KX25, KX52, KX53	A97601-ND	.93	.80	5-1814821-1
	Straight Plug Hex Crimp Straight Plug Hex Crimp	6 CT125	A97602-ND A97603-ND	.93 .98	.80 .84	5-1814821-3 5-1814821-7
22	Straight Plug Twist-On	59B, 62A, 140, 210, URM90, Belden 9291, 9291, KX6A, KX25, KX52, KX53	A97604-ND	.73	.63	5-1814822-1
	Straight Plug Twist-On Straight Plug Twist-On Straight Plug Twist-On	6 CT100 CT125	A97605-ND A97606-ND A97607-ND	.70 .75 .78	.61 .65 .67	5-1814822-3 5-1814822-5 5-1814822-7
23	Black Jack Rear Mount	59B, 62A, 140, 210, URM90, Belden 9291, 9291, KX6A, KX25, KX52, KX53	A97608-ND	2.78	2.39	5-1814826-1
	Black Jack Rear Mount	6	A97609-ND	2.78	2.39	5-1814826-3
24	Bulkhead Socket	—	A97610-ND	.93	.80	5-1814823-1
25	Straight PCB Socket	—	A97611-ND	1.55	1.34	5-1814825-1
26	Elbow Jack PCB Extended Elbow Jack PCB	— —	A97612-ND A97613-ND	1.60 1.55	1.38 1.34	5-1634552-1 5-1634540-1
27	Elbow Adapter Jack-Plug	—	A97614-ND	3.33	2.86	5-1634537-1

SHV Dual Crimp Connectors

Center contact plating: Gold

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
28	Plug, Nickel Plug, Silver	58, 58A, 58B, 58C	A32435-ND◆ A24665-ND	38.38 49.18	33.01 42.30	5051426-4 51426-1
	Plug, Nickel	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32436-ND◆	38.38	33.01	5051426-5
	Plug, Silver	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24667-ND† A32437-ND◆†	44.70 41.10	38.45 35.35	51426-2 5051426-2
29	Bulkhead Solder Jack, Silver Bulkhead Solder Jack, Silver Bulkhead Solder Jack, Nickel	—	A24668-ND A32804-ND◆ A24669-ND◆	28.95 26.63 16.88	24.90 22.90 14.52	51494-1 5051494-1 51494-2
30	Panel Solder Jack, Nickel	—	A24670-ND◆	49.13	42.25	51421-2

◆ ***RoHS Compliant*** † 22 AWG Center Conductor Maximum

TNC Hex and Dual Crimp Connectors 50 and 75 Ohm

Center Contacts: Gold
Dies for Pro-Crimper: A: A9994-ND **B:** A24570-ND **C:** A24574-ND
Dies for SDE PEW 12: D: A97886-ND

Fig.	Ω	Description	Die	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
				Hex Crimp				
31	50	Plug	—	174, 188, 188A, 316	A24635-ND A32438-ND◆	5.80 5.33	4.99 4.58	222506-5 5222506-5
	50	Plug	A	58, 58A, 58B, 58C	A32439-ND◆	4.38	3.77	5222506-1
	50	Plug	D	58C, 141A, 303, URM43, 76, Belden 9907, KX15	A97585-ND◆	2.38	2.05	5-1814800-3
	75	Plug	D	59B, 62A, 140, 210, URM90, KX6A, KX25, KX52, KX53	A97586-ND◆	2.63	2.26	5-1814801-3
32	50	Jack	D	58C, 141A, 303, URM43, 76, Belden 9907, KX15	A97587-ND◆	4.38	3.77	5-1814802-3

(Continued)

Fig. 21
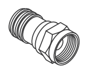

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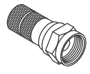

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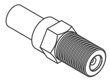

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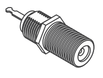

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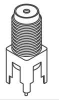

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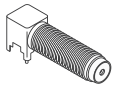

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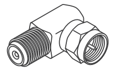

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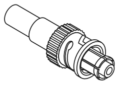

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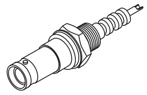

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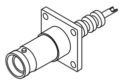

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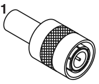

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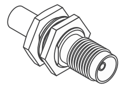

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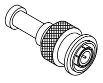

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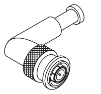

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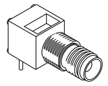

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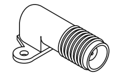

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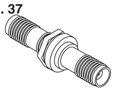

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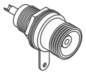

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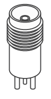

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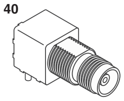

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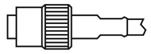

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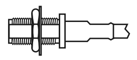

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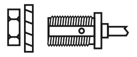

TNC Hex and Dual Crimp Connectors 50 and 75 Ohm *(Cont.)*

Fig.	Ω	Description	Die	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Dual Crimp								
33	50	Plug, Weatherproof	—	223, 55, 55A, 55B	A24638-ND†	25.08	21.57	225550-1
			—	142, 142A, 142B, 400	A32440-ND◆†	20.63	17.74	5225555-6
			B	RG58A/U and RG58C/U	A29097-ND A32441-ND◆	38.88 20.10	32.40 17.29	225555-2 5225555-2
			C	8, 8A, 213	A24641-ND† A32442-ND◆†	56.93 39.68	48.96 34.13	225555-7 5225555-7
			C	RG393, 9, 9A, 9B, 214	A24642-ND† A32805-ND◆† A24644-ND	27.80 29.70 38.00	23.91 25.55 32.68	1-225550-3 1-5225550-3 225550-8
34	50	Right Angle Plug, Weatherproof	—	58, 58A, 58B, 58C	A24645-ND A32443-ND◆	43.50 39.25	37.41 33.76	225559-2 522559-2
			—	142, 142A, 142B, 400	A24646-ND A32806-ND◆	46.45 39.93	39.95 34.34	225554-6 5225554-6
			C	393, 225	A24647-ND A32807-ND◆	52.60 45.23	45.24 38.90	1-225554-1 1-5225554-1

◆ ***RoHS Compliant*** † Mil Type

TNC PC Board / Panel Mount Connectors 50 and 75 Ohm

Center Contacts: Gold

Fig.	Ω	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
35	50	Right Angle Jack, Metal With Mounting Posts	A32444-ND◆	10.13	8.71	5227839-1
36	50	Right Angle Jack, Nickel	A24650-ND	17.63	15.16	413933-1
37	50	Bulkhead Jack Adapter, Nickel	A24651-ND◆	16.75	14.41	221500-1
Zinc Die Cast — RoHS Compliant						
38	50	Bulkhead Jack	A97589-ND	2.25	1.94	5-1814804-1
	75	Bulkhead Jack	A97590-ND	2.55	2.20	5-1814804-3
39	50	Vertical PCB Jack	A97591-ND	3.18	2.74	5-1814805-1
40	50	Right Angle PCB Jack	A97592-ND	3.80	3.27	5-1814807-1

◆ ***RoHS Compliant***

Miniature Threaded Connectors 50 Ohm

RoHS COMPLIANT

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.	Tool	Price Each
41	Plug, TEFLON	178, 178A, 178B, 196, 196A	A24699-ND	10.73	9.23	2-330311-2	—	—
		174, 316, 188, 188A	A24700-ND	22.43	19.29	2-330311-1	A28796-ND	6087.00
		180, 180A, 180B, 195, 195A	A24701-ND	12.53	10.78	1-330723-0	—	—
42	Jack, TEFLON	180, 180A, 180B, 195, 195A	A24702-ND	19.35	16.65	1-330599-0	—	—
43	Solder Jack Adapter	—	A24703-ND	18.53	15.94	329852	—	—

Hand Tools and Die Sets for RF Connectors

Terminal Type (Crimp)	Description	Digi-Key Part No.	Price Each	AMP Part No.
50 Ohm				
Dual	PRO-CRIMPER III (BNC)	A24786-ND	96.00	58433-1
—	PRO-CRIMPER III Hand Tool	A9996-ND	66.00	354940-1
—	PRO-CRIMPER II/III Repair Kit	A34584-ND	51.00	679221-1
Hex	PRO-CRIMPER III Die Set	A9995-ND	42.00	58436-3
Hex	PRO-CRIMPER III Die Set	A9994-ND	42.00	58436-1
Hex	PRO-CRIMPER III Die Set	A9960-ND	42.00	58436-2
Dual	Certi-Crimp with Die Set	A24574-ND	1785.00	220015-1
Dual	PRO-CRIMPER III Die Set	A24570-ND	52.65	58435-1
Dual	PRO-CRIMPER III Die Set	A24780-ND	172.50	318450-2
Dual	PRO-CRIMPER III Die Set	A24779-ND	724.17	58330-1
Dual	PRO-CRIMPER III Die Set	A24781-ND	545.40	318452-2
Dual	PRO-CRIMPER III Die Set	A24777-ND	127.26	220189-3
Dual	PRO-CRIMPER III Die Set	A24778-ND	127.26	220189-1
Dual	PRO-CRIMPER III Die Set	A24776-ND	244.68	58537-1
—	N-Type Coaxicon Die Set	A29142-ND	362.09	91902-1
Dual	PRO-CRIMPER III Die Set	A24775-ND	127.26	220189-2
Dual	Certi-Crimp with Die Set	A24772-ND	2850.00	69331-1
Dual	PRO-CRIMPER III with Die Set	A9970-ND	240.89	91904-2
Dual	BNC Coaxial Die Set	A30570-ND	406.02	58539-1
Dual	BNC Coaxial Die Set	A30571-ND	240.89	1424050-1
BNC PRO-CRIMPER III Dies, 75 Ohm				
Hex	BNC Die Set	A9993-ND	42.00	58425-2
Hex	BNC Die Set	A9992-ND	42.00	58425-1
—	Crimp Tool with Die Set	A9803-ND	106.05	58531-2
—	Crimp Tool with Die Set	A9804-ND	106.05	58531-1
—	Crimp Tool with Die Set	A9805-ND	153.00	58531-3
Dual	Die Set	A24597-ND	119.69	58085-1
Dual	Die Set	A24630-ND	203.78	318451-2
Dual	Die Set	A24631-ND	149.99	58538-1
Dual	Die Set	A24632-ND	333.30	58174-1
—	BNC Coaxicon Die Set	A29143-ND	362.09	91904-1
N-Type				
—	Crimp Tool with Die Set	A9807-ND	127.26	58501-1
Hex	Die Set, use with A9996-ND	A9975-ND	72.72	58485-1
Cable Stripper				
—	Cable Stripping Tool	A1110-ND	108.68	603995-1
Zinc Die Cast				
—	SDE PEW 12 Hand Tool	A97885-ND	134.84	9-1478240-0
Hex	SDE PEW 12 Die Set	A97886-ND	122.72	9-1478242-0

Waka

SMA Fixed Length Semi-Rigid Cables

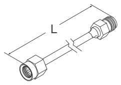

Materials: • Stainless steel body • Center contacts: Gold plated Beryllium Copper • Insulators: PTFE • Gaskets: Silicone rubber **Specifications:** • Impedance: 50Ω • V.S.W.R: DC 18GHz (maximum 1.05 + 0.005f), f = frequency range (GHz) • Insertion Loss: DC 18GHz (maximum 0.03 $\sqrt{f}$ dB), f = frequency range (GHz) • Insulation Resistance: DC 500V (minimum 5000MΩ) • Dielectric Withstanding Voltage: 1000Vrms at sea level • Contact Resistance: AC 50mA (maximum 3mΩ)

Cable Type	Dim. L (mm)	Digi-Key Part No.	Price Each 1	10	25	Waka Part No.
SMA Plug to Plug						
SX-12S (.047")	200	305-1009-ND	60.94	57.28	54.99	02Y5717#0200
	500	305-1010-ND	65.84	61.88	59.40	02Y5717#0500
	1000	305-1011-ND	70.88	66.62	63.95	02Y5717#1000
SMA Plug to Jack						
SX-22S (.085")	100	305-1012-ND	34.55	32.48	31.18	02Y5718#0100
	500	305-1014-ND	42.85	40.28	38.67	02Y5718#0500
	100	305-1016-ND	36.19	34.02	32.66	02Y5719#0100
	200	305-1017-ND	39.45	37.08	35.60	02Y5719#0200
	500	305-1018-ND	44.49	41.82	40.14	02Y5719#0500
	1000	305-1019-ND	54.28	51.02	48.98	02Y5719#1000
SX-12S (.047")	100	305-1020-ND	59.32	55.75	53.52	02Y5720#0100
	500	305-1022-ND	67.47	63.42	60.88	02Y5720#0500
	1000	305-1023-ND	72.51	68.15	65.43	02Y5720#1000

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samtec

Ganged MMCX Jacks and Plugs

RoHS COMPLIANT

Specifications: • Shell Material: Brass • Jacks Contact Material: BeCu • Insulator Material: Teflon • Pin Material: Brass • Plating: 30μ" (0.76μm) Au over 50μ" (1.27μm) Ni • Operating Temperature Range: -40°C ~ 90°C • Insulation Resistance: 1000MΩ min. • Contact Resistance: Center: 5mΩ, Outer: 2.5mΩ • Impedance: 50Ω • Dielectric Withstanding Voltage: 500Vrms, 50Hz • Dielectric Working Voltage: 170Vrms, 50Hz • Frequency Range: 0 ~ 6GHz **Processing:** • Lead-Free Solderable: Yes

Fig. 1
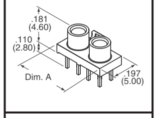

Fig. 2
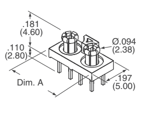

No. of Positions	Dimension A In. (mm)	Digi-Key Part No.	Price Each 1	10	100	Samtec Part No.
Fig. 1 — Jacks						
2	.39 (10)	SAM8067-ND	15.19	11.68	9.79	GRF1-J-P-02-E-ST-THI
2	.39 (10)	SAM8068-ND	18.75	15.19	12.73	GRF1-J-P-02-E-ST-THI-E
4	.79 (20)	SAM8069-ND	25.09	20.45	17.57	GRF1-J-P-04-E-ST-THI
4	.79 (20)	SAM8070-ND	29.82	24.31	20.88	GRF1-J-P-04-E-ST-THI-E
6	1.18 (30)	SAM8071-ND	37.34	30.64	26.81	GRF1-J-P-06-E-ST-THI
6	1.18 (30)	SAM8072-ND	36.95	30.32	26.53	GRF1-J-P-06-E-ST-THI-E
8	1.57 (40)	SAM8073-ND	40.97	33.43	29.66	GRF1-J-P-08-E-ST-THI
8	1.57 (40)	SAM8074-ND	45.52	37.14	32.95	GRF1-J-P-08-E-ST-THI-E
Fig. 2 — Plugs						
2	.39 (10)	SAM8075-ND	17.23	13.32	11.16	GRF1-P-P-02-E-ST-THI
4	.79 (20)	SAM8076-ND	18.48	14.96	12.54	GRF1-P-P-04-E-ST-THI
6	1.18 (30)	SAM8077-ND	25.66	20.92	17.97	GRF1-P-P-06-E-ST-THI
8	1.57 (40)	SAM8078-ND	56.00	45.96	40.21	GRF1-P-P-08-E-ST-THI

BNC and F Connector Cables

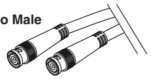

Item	Description	Cable Type		
		RG58	RG59	RG6
Conductor	Material	BC (bare copper)	CCS (copper clad steel)	BC (bare copper)
	No. / Inch (mm)	1 / .32 (0.813)	1 / .253 (0.643)	1 / .253 (0.643)
Insulation	Material	LDPE (low density PE)	LDPE (low density PE)	LDPE (low density PE)
	Color	Natural	Natural	Natural
	Diameter: Inch (mm)	.116 (2.95)	.146 (3.71)	.146 (3.71)
Braided Shielding	Material	BC	BC	BC
	No. / Inch (mm)	16/7 / .051 (0.12)	16/7 / .051 (0.12)	16/7 / .051 (0.12)
Jacket	Material	PVC	PVC	PVC
	Thickness: Inch (mm)	.283 (0.72)	.354 (0.9)	.354 (0.9)
	Color	Black	Black	See Below
	Outer Diameter: Inch (mm)	.195±.006 (4.95±0.15)	.236±.006 (6.0±0.15)	.236±.006 (6.0±0.15)
General	Tensile Strength	1,500 psi	1,500 psi	1,500 psi
	Nominal Impedance (ohm)	53.5	73	75
	Nominal Capacitance (pF/m)	93.5	68.9	44.3
	Attenuation 100MHZ (db/km)	138	125	102
	Voltage Rating	5.0KV	7.0KV	3.0KV
	UL Standard	1354	1354	1354

Length Feet (M)	Digi-Key Part No.	Price Each	TPI Part No.
BNC Connector Cables			
RG58/U Molded Strain Relief Cables 50Ω			
1 (.30)	290-1009-ND	7.95	58-012-1M
2 (.61)	290-1010-ND	8.49	58-024-1M
3 (.91)	290-1011-ND	8.95	58-036-1M
4 (1.22)	290-1012-ND	9.44	58-048-1M
5 (1.52)	290-1013-ND	9.98	58-060-1M
6 (1.83)	290-1014-ND	10.49	58-072-1M
10 (3.05)	290-1015-ND	12.54	58-120-1M
15 (4.57)	290-1016-ND	15.18	58-180-1M
25 (7.62)	290-1017-ND	20.79	58-300-1M
50 (15.24)	290-1018-ND	31.99	58-600-1M
75 (22.86)	290-1019-ND	45.49	58-900-1M
100 (30.48)	290-1020-ND	57.49	58-1200-1M
RG59/U Molded Strain Relief Cables 75Ω			
1 (.30)	290-1021-ND◆	8.49	59-012-1M
2 (.61)	290-1022-ND	8.97	59-024-1M
3 (.91)	290-1023-ND	9.39	59-036-1M
4 (1.22)	290-1024-ND	9.84	59-048-1M
5 (1.52)	290-1025-ND	10.39	59-060-1M
6 (1.83)	290-1026-ND◆	10.79	59-072-1M
10 (3.05)	290-1027-ND	13.19	59-120-1M
15 (4.57)	290-1028-ND◆	16.89	59-180-1M
25 (7.62)	290-1029-ND	21.49	59-300-1M
50 (15.24)	290-1030-ND◆	34.49	59-600-1M
75 (22.86)	290-1031-ND	47.00	59-900-1M
100 (30.48)	290-1032-ND◆	59.99	59-1200-1M
F Connector Cables			
RG6/U Molded End Cables - Black			
3 (.91)	290-1081-ND	4.95	F6-3B
6 (1.83)	290-1082-ND	5.45	F6-6B
10 (3.05)	290-1083-ND	6.15	F6-10B
12 (3.66)	290-1084-ND	6.95	F6-12B
15 (4.57)	290-1085-ND	7.79	F6-15B
25 (7.62)	290-1086-ND	10.49	F6-25B
50 (15.24)	290-1135-ND	16.79	F6-50B
75 (22.86)	290-1136-ND	26.35	F6-75B
100 (30.48)	290-1137-ND	35.50	F6-100B
RG6/U Molded End Cables - White			
3 (.91)	290-1090-ND	4.35	F6-3W
6 (1.83)	290-1091-ND	5.45	F6-6W
10 (3.05)	290-1092-ND	6.15	F6-10W
12 (3.66)	290-1093-ND	6.79	F6-12W
15 (4.57)	290-1094-ND	7.79	F6-15W
25 (7.62)	290-1095-ND	10.49	F6-25W
50 (15.24)	290-1138-ND	16.79	F6-50W
75 (22.86)	290-1139-ND	26.35	F6-75W
100 (30.48)	290-1140-ND	35.50	F6-100W

◆ *RoHS Compliant*

NEW! BNC Attenuators and Kit

Specifications:

- **Nominal Impedance:** 50Ω ± 0.25Ω over operating temperature range
- **Operating Temperature:** -50 ~ 80°C
- **Power Rating:** 2W over operating temperature range
- **Power Rating (Peak):** 100W for 25 microseconds

Materials: Tin-Zinc-Copper plating

Frequency (GHz)	Impedance (Ω)	Power (Watt)	Attenuation (dB)	Digi-Key Part No.	Price Each	TPI Part No.
0 ~ 1.0	50	1	3	290-1922-ND	55.95	120082
			6	290-1923-ND	55.95	120083
			10	290-1924-ND	55.95	120084
			20	290-1925-ND	55.95	120085
BNC Attenuator Kit (includes all Attenuators listed above)........................				290-1926-ND	207.95	120086

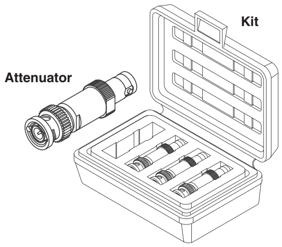

Coax Adapter Connector Kit

Kit includes male and female connectors of all eight types. Any adapter can be created on the spot in just seconds. Simply screw any combination of 24 connectors to one of the six universal interfaces.

- Gold plated contacts
- Silver plated machined brass connector bodies with teflon insulation

290-1045-ND TPI Part No. TPI-3000A **$159.95**

RF Adapter Kit

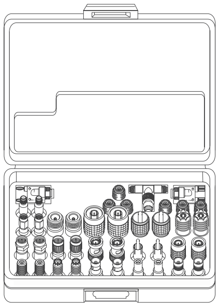

Kit includes male and female SMA, UHF, MINI UHF, N, RCA, BNC, TNC, and 6 universal interface connectors. Also included are 3 different universal Interface Adapters. That's 41 pieces total to make any adaptor on the spot in just seconds.

- Gold plated contacts
- Silver plated machined brass connector bodies with teflon insulation

290-1921-ND TPI Part No. TPI 5000A **$259.95**

DVI, HDMI and RCA Cables

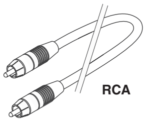

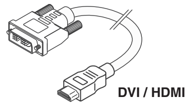

290-1913-ND	DVI Male to DVI Male 2M (CT001147)............	**$20.95**
290-1915-ND	DVI Male to HDMI Male 2M (CT001149)..........	**$21.95**
290-1914-ND	HDMI Male to HDMI Male 2M (CT1001148)......	**$22.95**
290-1916-ND	3RCA Male to Male 2M (HPAVCC3)..............	**$49.95**
290-1917-ND	RCA Male to Male 2M Green (HPACG3).........	**$16.95**
290-1918-ND	RCA Male to Male 2M Red (HPACR3)...........	**$16.95**
290-1919-ND	RCA Male to Male 2M Blue (HPACB3)...........	**$16.95**

BULGIN SMB Buccaneer® Connectors

Features: • Sealed to IP68 when mated • Flex re-wireable cable accommodation

Electrical Specifications: • Impedance: 50Ω • Insulation Resistance: 1000MΩ Maximum • Operating Temperature Range: -20°C ~ 80°C

Material Specifications: • Body Moulding: PX0415/1 and PX0414 – Polyamide; PX0416 – PVC • Flammability Rating: UL94V-0 • O-Rings: Nitrile • Panel Sealing O-Ring: Nitrile • SMB Connector Body: Brass to QQ-B-626, Gold plated • Center Contact Plug: Brass to QQ-B-626, Gold plated; Jack: Beryllium Copper to QQ-B-530, Gold plated • Insulator: Teflon • Crimp Ferrules: Annealed Copper

Fig. 1

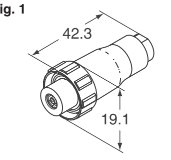

Fig. 2

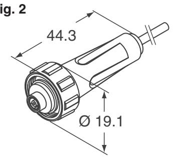

Fig. 3

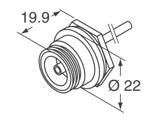

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Bulgin Part No.
1	SMB Plug Connector for RG-174 Cable	708-1268-ND	15.08	14.01	12.39	PX0415/1
2	Panel Mount SMB Plug with 1m Cable	708-1269-ND	16.49	15.32	13.55	PX0416/1M00
	Panel Mount SMB Plug with 3m Cable	708-1270-ND	19.31	17.93	15.87	PX0416/3M00
	Panel Mount SMB Plug with 5m Cable	708-1271-ND	22.36	20.77	18.37	PX0416/5M00
3	Panel Mount SMB Jack with 0.5m Cable	708-1272-ND	23.71	22.02	19.48	PX0414/0M50
	Panel Mount SMB Jack with 1.0m Cable	708-1273-ND	25.00	23.22	20.54	PX0414/1M00
	Panel Mount SMB Jack with 1.5m Cable	708-1274-ND	26.36	24.47	21.65	PX0414/1M50
—	Sealing Cap for PX0414 Series	708-1275-ND	1.45	1.33	1.18	PX0480
	Sealing Cap for PX0415 Series	708-1276-ND	1.45	1.33	1.18	PX0481
	Sealing Cap for PX0416 Series	708-1277-ND	1.45	1.33	1.18	PX0485
	Hand Crimp Tool for SMB Connectors	708-1278-ND	247.16	—	—	14319

Pomona ELECTRONICS

NEW! RF Connectors

RoHS COMPLIANT

Fig. 1
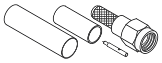
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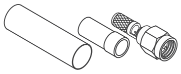
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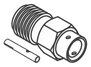
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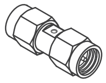
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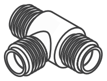
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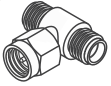
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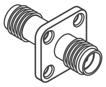
Fig. 8
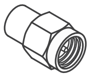
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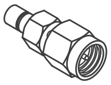
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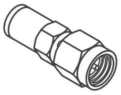
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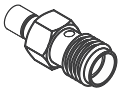
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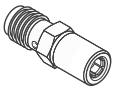
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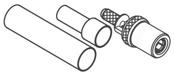
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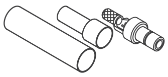
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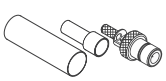
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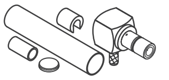
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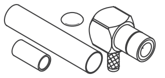
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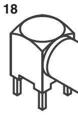
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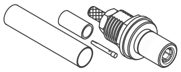
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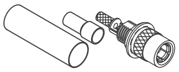
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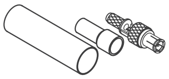
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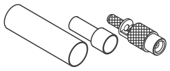
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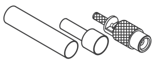
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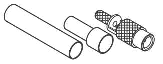
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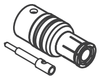
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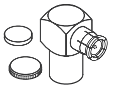
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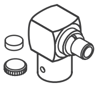
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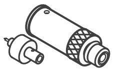
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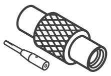
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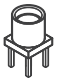

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	SMA Plug Straight Crimp, RG58	501-1250-ND	4.48	4.05	72943
2	SMA Plug Straight Crimp, RG141	501-1251-ND	4.83	4.37	72944
3	SMA Jack Straight Crimp, RG141	501-1252-ND	5.06	4.58	72952
4	SMA Plug (Male) ~ Plug (Male)	501-1253-ND	6.54	5.91	72964
5	SMA "T" Type Jack (Female) ~ Jack (Female) ~ Jack (Female)	501-1254-ND	12.38	11.19	72968
6	SMA "T" Type Jack (Female) ~ Plug (Male) ~ Jack (Female)	501-1255-ND	12.05	10.89	72969
7	SMA Jack (Female) ~ Jack (Female), Panel	501-1256-ND	12.48	11.28	72973
8	SMA Plug, 50ohm Termination	501-1257-ND	18.77	16.97	72975
9	SMA (Male) ~ SMB (Male)	501-1258-ND	7.54	6.81	72976
10	SMA (Male) ~ SMB (Female)	501-1259-ND	7.39	6.68	72977
11	SMA (Female) ~ SMB (Male)	501-1260-ND	9.91	8.96	72978
12	SMA (Female) ~ SMB (Female)	501-1261-ND	9.78	8.84	72979
13	SMA Straight Plug Crimp, RG174/188/316	501-1262-ND	5.66	5.12	72981
14	SMB Jack Straight Crimp, RG174/188/316	501-1263-ND	7.10	6.42	72984
15	SMB Jack Straight Crimp, RG179/187	501-1264-ND	7.10	6.42	72985

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
16	SMB Jack Right Angle Crimp, RG178/196 SMB Jack Right Angle Crimp, RG174/188/316	501-1265-ND 501-1266-ND	6.21 7.34	5.61 6.63	72991 72992
17	SMB Jack Right Angle Crimp, RG179/187	501-1267-ND	7.34	6.63	72993
18	SMB Plug Right Angle PCB Receptacle	501-1268-ND	6.06	5.48	72997
19	SMB Bulkhead Plug, RG174/188/316	501-1269-ND	5.03	4.55	73000
20	SMB Bulkhead Plug, RG179/187	501-1270-ND	5.03	4.55	73001
21	MCX Plug Straight Crimp, RG179	501-1271-ND	5.44	4.92	73004
22	MCX Jack Straight Crimp, RG174/316	501-1272-ND	4.47	4.04	73010
23	MCX Jack Straight Crimp, RG178	501-1273-ND	4.52	4.08	73011
24	MCX Jack Straight Crimp, RG179	501-1274-ND	5.33	4.82	73012
25	MCX Plug Straight Semi-Rigid, RG402	501-1275-ND	4.30	3.89	73014
26	MCX Plug Right Angle Semi-Rigid, RG402	501-1276-ND	4.98	4.50	73016
27	MMCX Plug Right Angle Semi-Rigid, RG402	501-1277-ND	6.54	5.91	73032
28	MMCX Plug Straight Semi-Rigid, RG402	501-1278-ND	6.11	5.52	73034
29	MMCX Jack Straight Semi-Rigid, RG405	501-1279-ND	6.39	5.78	73037
30	MMCX Jack Straight Edgecard	501-1280-ND	6.11	5.52	73039

F Connectors

RoHS COMPLIANT

Dimensions in Inches (mm)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	F Type Bulkhead to Panel Feed Through	501-1143-ND	1.51	1.37	6706
2	F Type Female-Male Push-On Adapter	501-1144-ND	2.37	2.15	6713
3	F (Male-Female) Right Angle, 75Ω	501-1159-ND	3.40	3.08	6800
4	F (Male-Female) In-Line, 75Ω	501-1160-ND	1.28	1.16	6801

Fig. 1
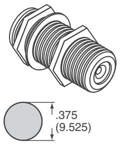

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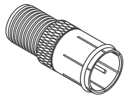
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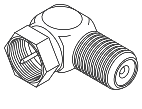
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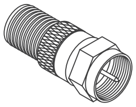

CUI INC

F Connectors

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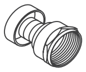
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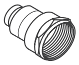
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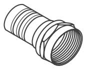
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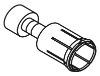
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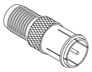
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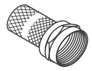
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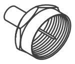
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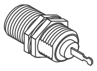
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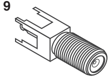
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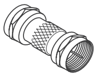
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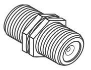
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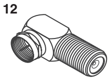
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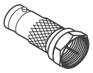

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100	1,000
1	Separated Crimp Ring, for RG-59 Cable Separated Crimp Ring, for RG-6 Cable	CP-0010-ND◆ CP-0060-ND	.66 .66	5.72 5.72	44.00 44.00	330.00 330.00
2	Built-On Crimp Ring, for RG-6 Cable	CP-0160-ND	.51	4.39	33.80	254.00
3	Long Type Built-On Crimp Ring, for RG-59 Cable Long Type Built-On Crimp Ring, for RG-6 Cable	CP-0210-ND CP-0260-ND	1.02 1.02	8.84 8.84	68.00 68.00	510.00 510.00
4	Push-On, Crimp Type, for RG-59 Cable	CP-0310-ND	1.74	15.08	116.00	870.00
5	Adapter, Screw-On/Push-On	CP-2000-ND◆	1.14	9.88	76.00	570.00
6	Twist-On Type, for RG-59 Cable	CP-0410-ND	1.17	10.14	78.00	585.00

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100	1,000
7	Male Terminator, with Built-In 75 Ohm Resistor	CP-0610-ND	.75	6.50	50.00	375.00
8	Female Bulkhead Receptacle, with Washer and Nut	CP-1010-ND◆	.78	6.76	52.00	390.00
9	PCB Type, Full Length 26mm	CP-1210-ND◆	1.38	11.96	92.00	690.00
10	Adapter, Universal Male F to F Coupler	CP-2010-ND	2.61	22.62	174.00	1305.00
11	Adapter, Female F to F Coupler, with Washer and Nut	CP-2110-ND◆	.93	8.06	62.00	465.00
12	Adapter, Right Angle F Male to F Female	CP-2510-ND	2.64	22.88	176.00	1320.00
13	Adapter, F Male to BNC Female	CP-0130-ND◆	2.94	25.48	196.00	1470.00

◆ ***RoHS Compliant***

Paladin Tools® NEW! 8000 and 1300 Series Crimper and Die Sets

8000 and 1300 Series Crimper

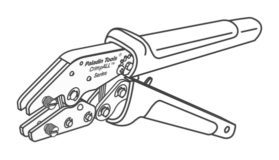

8000 Series: Ergonomic Crimper that uses the same dies as the 1300 Series. Easiest crimper on the market to use, crimp with one hand effortlessly. Ultra-smooth ratchet design, rubber grip handles with reduced grip distance. Over 50 interchangeable die sets available.

1300 Series: The Original crimp frame with interchangeable die sets. Ratcheted crimper with quick change EZI-CHANGE™ die screws. Precision crimping at an affordable price.

PAL8000-ND	**(8000)** 8000 Series Crimper (frame only)	**$55.99**
PAL1302-ND	**(1302)** 1300 Series Crimper (frame only)	**$41.99**
PAL901381-ND	**(901381)** Cordura Storage Case.................	**$39.99**

Die Sets

Description	Digi-Key Part No.	Price Each	Paladin Tools Part No.
Coaxial Cable			
BNC/TNC 3 Piece RG58, RG59, RG62AU	PAL2034-ND	25.99	2034
SMA, SMB, Mini-59 BNC/TNC, Mini UHF RG58, Mini-59, RG174, Small Coaxial and Belden 1855A	PAL2653-ND	25.99	2653
CATV “F” Type RG-59 and RG6 Video Cable	PAL2042-ND	25.99	2042
BNC, CATV “F” Type and HDTV, RG6, RG6 Quad and Belden 1694A	PAL2045-ND	25.99	2045
BNC/TNC RG174, RG179 and Small Cable Connectors	PAL2051-ND	25.99	2051
RJ45 and RG6/RG6 Quad CATV “F” - UTP 4-Pair and RG6/RG6 Quad Coaxial	PAL2687-ND	31.99	2687
Twisted Pair Cable			
RJ45 - 8P8C (8 Pin) - Flat/Round, Solid/Stranded RJ45 unkeyed	PAL2064-ND	25.99	2064
RJ50 - 10P10C (10 Pin) - Flat/Round, Solid/Stranded RJ50 unkeyed	PAL2068-ND	25.99	2068
Electrical and Industrial Cable			
Insulated Terminals and Lugs, Solid or Stranded Wire, 22-10AWG, for Large Professional Terminals	PAL2035-ND	25.99	2035
Open Barrel, Non-Insulated Terminals and Lugs - Narrow, Stranded Wire 22-10AWG for Standard Commercial Terminals	PAL2033-ND	25.99	2033
Insulated and Non-Insulated Wire Ferrules, Stranded Wire 22-10AWG	PAL2095-ND	25.99	2095
Open-Barrel, D-Sub Contact Pins, Stranded Wire 28-20AWG for Standard D-Sub Pins	PAL2097-ND	25.99	2097
Insulated Terminals and Lugs, Solid and Stranded Wire 26-14AWG for Small Wire Barrel Terminals	PAL2029-ND	25.99	2029

EMERSON Network Power

RF Connectors MCX Type

RoHS COMPLIANT

JOHNSON®

FEATURES: • 30% Smaller than SMB • Rugged snap-on mating design • Captivated contact **ELECTRICAL RATINGS:** • **Impedance:** 50Ω • **Frequency Range:** 0 ~ 6GHz • **Working Voltage at sea level:** 335VRMS; 250VRMS (J531-ND and J532-ND) **MECHANICAL RATINGS:** • **Engage/Disengage Force:** 5.6 pounds maximum engagement/8 pounds typical disengagement • **Contact Retention Force:** 2.3 pounds minimum axial force • **Durability:** 500 cycles minimum

Fig. 1 – Right Angle Cable Plug

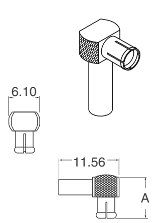

Fig. 2 – Straight Cable Plug

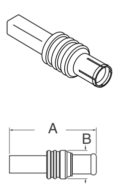

Fig. 3 – Straight Crimp Type Bulkhead Jack

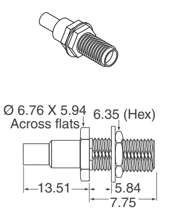

Fig. 4 – Straight Plug Receptacle

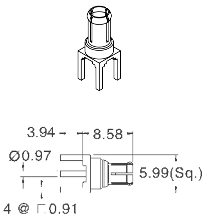

Fig. 5 – Straight PC Mount Jack

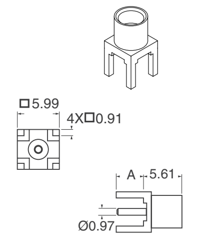

Fig. 6 – Right Angle PC Mount Jack

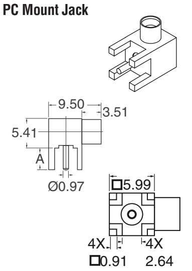

Fig. 7 – Front Mount Bulkhead Jack Receptacle

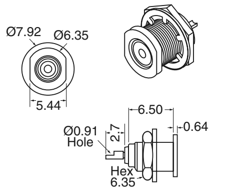

Fig. 8 – End Launch Jack

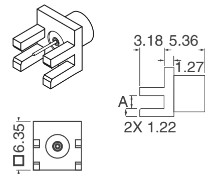

Fig. 9 – SMT Straight Jack

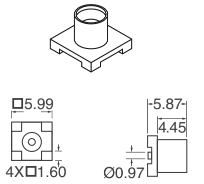

Fig. 10 – SMT Right Angle Jack

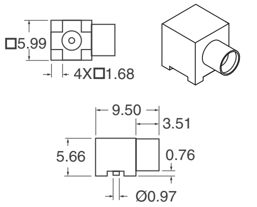

Fig. 11 – Straight Jack Receptacle - 2.54mm

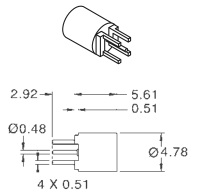

Fig.	Cable Type	Plating	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Price Each 1	10	50	100	Johnson Part No.
50 Ohm										
1	RG-178	Gold	11.58	—	J531-ND	5.65	4.95	4.26	3.65	133-3402-101
	RG-316	Gold	11.58	—	J535-ND	5.14	4.51	3.88	3.33	133-3403-101
	RG-178	Nickel	11.58	—	J532-ND	5.45	4.78	4.11	3.52	133-3402-106
	RG-316	Nickel	11.58	—	J536-ND	5.15	4.52	3.89	3.33	133-3403-106
	RG-188, RG-316	Nickel	7.90	—	J720-ND	5.15	4.52	3.89	3.33	133-3404-106
	.086 Semi-rigid	Gold	7.90	—	J721-ND	5.35	4.70	4.04	3.46	133-3693-101
2	RG-316	Gold	15.19	4.98	J533-ND	5.93	5.21	4.48	3.84	133-3403-001
	RG-316	Nickel	15.19	4.98	J534-ND	4.16	3.66	3.14	2.70	133-3403-006
4	—	Gold	—	—	J612-ND	8.77	7.69	6.61	5.67	133-3801-201
5	—	Gold	3.94	—	J537-ND	4.68	4.11	3.54	3.03	133-3701-201
	—	Nickel	3.94	—	J538-ND	4.02	3.53	3.04	2.60	133-3701-206
	—	Gold	2.79	—	J539-ND	4.88	4.28	3.68	3.15	133-3701-211
	—	Nickel	2.79	—	J540-ND	4.64	4.07	3.50	3.00	133-3701-216
6	—	Gold	3.94	—	J541-ND	12.34	10.83	9.31	7.98	133-3701-301
	—	Nickel	3.94	—	J542-ND	12.07	10.59	9.11	7.81	133-3701-306
	—	Gold	2.79	—	J543-ND	12.64	11.09	9.53	8.17	133-3701-311
	—	Nickel	2.79	—	J544-ND	9.27	8.13	6.99	5.99	133-3701-316
7	—	Gold	—	—	J545-ND	7.33	6.43	5.53	4.74	133-3701-401
	—	Nickel	—	—	J546-ND	7.09	6.22	5.35	4.59	133-3701-406
8	—	Gold	1.73	—	J547-ND	7.09	6.23	5.35	4.59	133-3701-801
9	—	Gold	—	—	J548-ND	7.24	6.35	5.46	4.68	133-3711-201
10	—	Gold	—	—	J549-ND	11.83	10.38	8.92	7.65	133-3711-301
11	—	Gold	—	—	J611-ND	5.55	4.88	4.19	3.59	133-3701-231

Fig.	Cable Type	Plating	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Price Each 1	10	50	100	Johnson Part No.
75 Ohm										
1	RG-179	Gold	7.98	—	J643-ND	6.17	5.41	4.66	3.99	133-8433-101
	RG-179DS	Gold	7.98	—	J644-ND	6.17	5.41	4.66	3.99	133-8434-101
2	RG-179	Gold	20.47	5.94	J645-ND	10.30	9.04	7.77	6.66	133-8433-001
3	RG-179	Gold	—	—	J647-ND	12.40	10.88	9.35	8.02	133-8333-401
5	—	Gold	3.80	—	J649-ND	10.03	8.80	7.56	6.48	133-8701-201
	—	Gold	2.70	—	J650-ND	6.34	5.56	4.78	4.10	133-8701-211
6	—	Gold	2.70	—	J652-ND	9.43	8.28	7.12	6.10	133-8701-311
8	—	Gold	1.73	—	J653-ND	5.69	4.99	4.29	3.68	133-8701-801
9	—	Gold	—	—	J654-ND	6.28	5.51	4.74	4.06	133-8711-201
Non-Magnetic MCX Connectors										
1	RG-316/u, 188, 174	Gold	7.90	11.56	J680-ND	9.43	8.27	7.11	6.10	133-9403-101
	RG-316DS, 188DS	Gold	7.90	11.56	J681-ND	12.25	10.75	9.24	7.92	133-9404-101
2	RG-316/u, 188, 174	Gold	15.19	4.98	J678-ND	12.00	10.53	9.05	7.76	133-9403-001
5	—	Gold	3.94	—	J682-ND	6.45	5.66	4.87	4.18	133-9701-201
	—	Gold	2.79	—	J683-ND	7.49	6.57	5.65	4.84	133-9701-211
6	—	Gold	2.79	—	J685-ND	10.58	9.28	7.98	6.84	133-9701-311
8	—	Gold	1.57	—	J686-ND	12.76	11.19	9.62	8.25	133-9701-801
Right Angle Plug Assembly Tool...............					J574-ND	379.46/1				141-0000-908
Hand Crimp Tool (frame only)					J572-ND	106.63/1				140-0000-952
Die Set (RG178, 316)					J573-ND	129.48/1				140-0000-951

RF Connectors SMA/SMB Type

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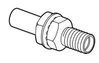
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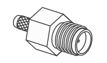
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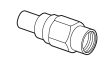
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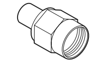
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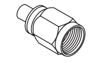
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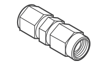
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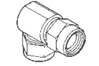
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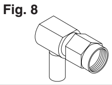
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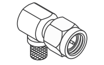
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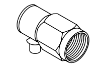
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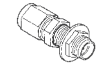
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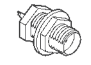
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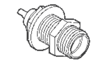
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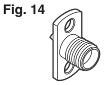
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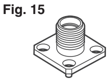
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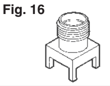
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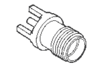
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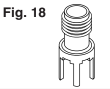
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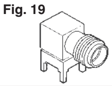
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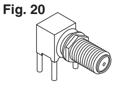
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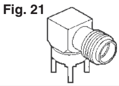
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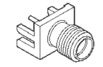
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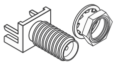
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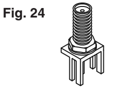
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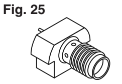
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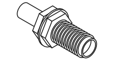
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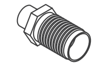
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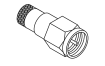
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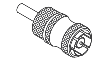
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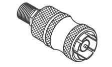
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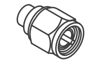
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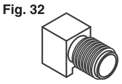
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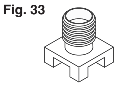
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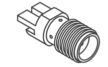
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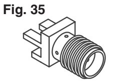
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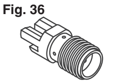
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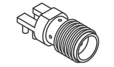
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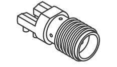
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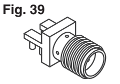
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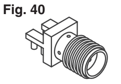
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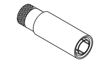
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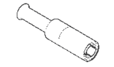
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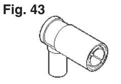
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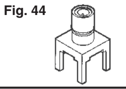
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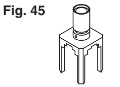
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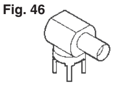
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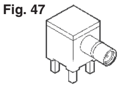
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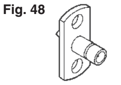
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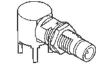
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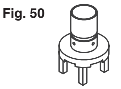
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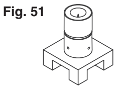
Fig. 52
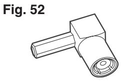

Fig.	Type (Description)	Cable Group	Plating	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Johnson Part No.
				SMA Type				
1	Crimp	2*	Gold	J523-ND	13.27	11.64	10.01	142-0303-411
	Crimp	2*	Nickel	J524-ND	9.40	8.25	7.09	142-0303-416
2	Crimp	7Δ	Gold	J990-ND	7.44	6.53	5.61	142-0303-011
3	Crimp	2*	Gold	J525-ND	8.00	7.02	6.03	142-0403-011
	Crimp	2*	Nickel	J526-ND	5.41	4.75	4.08	142-0403-016
4	Solder	RG-402	Gold	J485-ND	2.65	2.32	2.00	142-0694-011
	Solder	RG-402	Nickel	J486-ND	2.17	1.91	1.64	142-0694-016
	Solder	RG-405	Gold	J487-ND	6.49	5.70	4.90	142-0693-001
	Solder	RG-405	Nickel	J488-ND	5.83	5.11	4.40	142-0693-006
	Solder	.086 Semi-Rigid	Nickel	J725-ND	6.88	6.04	5.19	142-0693-066
	Solder	.141 Semi-Rigid	Nickel	J726-ND	6.88	6.04	5.19	142-0694-066
5	Crimp	RG-178/U, 196	Gold	J605-ND	7.57	6.64	5.71	142-0402-011
	Crimp	4‡	Gold	J637-ND	8.20	7.20	6.19	142-0439-001
	Crimp	5‡‡	Gold	J638-ND	8.20	7.20	6.19	142-0435-001
	Crimp	9ΔΔΔ	Gold	J813-ND	7.41	6.51	5.59	142-0408-011
6	Clamp	2*	Gold	J474-ND	13.33	11.70	10.05	142-0203-011
	Clamp	2*	Nickel	J475-ND	12.17	10.68	9.18	142-0203-016
	Clamp	3**	Gold	J480-ND	21.37	18.74	16.11	142-0207-011
	Clamp	3**	Nickel	J481-ND	20.16	17.69	15.20	142-0207-016
7	Clamp	2*	Nickel	J477-ND	9.91	8.69	7.47	142-0203-106
	Clamp	3**	Nickel	J484-ND	11.13	9.76	8.39	142-0207-106
8	Crimp	2*	Gold	J510-ND	8.77	7.69	6.61	142-0403-101
	Crimp	4‡	Gold	J639-ND	11.53	10.12	8.70	142-0439-101
	Crimp	5‡‡	Gold	J640-ND	12.81	11.24	9.67	142-0435-101
	Crimp	8ΔΔ	Gold	J713-ND	11.83	10.38	8.93	142-0404-101
9	Crimp	9ΔΔΔ	Gold	J991-ND	7.92	6.95	5.98	142-0408-101
10	Solder	.086 Semi-Rigid	Gold	J606-ND	10.78	9.46	8.13	142-0693-101
	Solder	.141 Semi-Rigid	Gold	J607-ND	10.58	9.28	7.98	142-0694-101
11	Clamp	2*	Gold	J478-ND	14.61	12.82	11.02	142-0103-401
12	Panel Mt.	—	Gold	J490-ND	9.04	7.93	6.82	142-0701-401
13	Panel Mt.	—	Gold	J489-ND	8.20	7.20	6.19	142-0701-411
14	Flange Mt.	—	Gold	J492-ND	9.69	8.50	7.31	142-0701-621
15	Flange Mt.	—	Gold	J493-ND	6.64	5.82	5.01	142-0701-631
16	PC Mt.	—	Gold	J494-ND	12.34	10.83	9.31	142-0701-211
	PC Mt.	—	Nickel	J495-ND	7.93	6.96	5.98	142-0701-216
17	PC Mt.	—	Gold	J500-ND	5.52	4.85	4.17	142-0701-201
	PC Mt.	—	Nickel	J840-ND	5.43	4.77	4.10	142-0701-206
18	PC Mt.	—	Gold	J608-ND	8.50	7.45	6.41	142-0701-231
19	PC Mt.	—	Gold	J496-ND	13.94	12.23	10.52	142-0701-321
	PC Mt.	—	Nickel	J497-ND	12.59	11.04	9.49	142-0701-326
20	PC Mt.	—	Gold	J569-ND	18.10	15.87	13.65	142-0701-501
	PC Mt.	—	Nickel	J714-ND	17.29	15.17	13.04	142-0701-506
	PC Mt.	—	Gold	J715-ND	13.14	11.52	9.91	142-0701-551
21	PC Mt.	—	Gold	J501-ND	12.97	11.38	9.78	142-0701-301
	PC Mt.	—	Nickel	J988-ND	8.68	7.62	6.55	142-0701-306
22	.062" PC Mt.	—	Gold	J502-ND	6.03	5.29	4.55	142-0701-801
	.062" PC Mt.	—	Nickel	J716-ND	5.72	5.02	4.32	142-0701-806
	.062" PC Mt.	—	Gold	J629-ND	7.20	6.32	5.43	142-0711-821
	.031" PC Mt.	—	Gold	J657-ND	10.20	8.94	7.69	142-0701-881
	.062" PC Mt.	—	Gold	J658-ND	10.81	9.49	8.16	142-0701-851
	.042" PC Mt.	—	Gold	J630-ND	12.96	11.37	9.77	142-0701-841
23	.062" PC Mt.	—	Gold	J992-ND	6.01	5.28	4.54	142-0711-851
24	PC Mt.	—	Gold	J610-ND	12.22	10.72	9.22	142-0701-871
25	PC Mt.	—	Gold	J631-ND	9.36	8.21	7.06	142-0721-881
26	Crimp	4‡	Gold	J641-ND	12.68	11.13	9.57	142-0339-401
26	Solder	.086 Semi-Rigid	Gold	J809-ND	14.64	12.84	11.04	142-0593-421
	Solder	. 141 Semi-Rigid	Gold	J810-ND	14.64	12.84	11.04	142-0594-421
	Solder	.086 Semi-Rigid	Gold	J811-ND	18.19	15.95	13.72	142-0593-431
	Solder	.141 Semi-Rigid	Gold	J812-ND	18.19	15.95	13.72	142-0594-431
27	Solder	.086 Semi-Rigid	Nickel	J722-ND	4.94	4.34	3.73	142-0593-006
	Solder	.141 Semi-Rigid	Gold	J723-ND	7.71	6.76	5.82	142-0594-001
	Solder	.141 Semi-Rigid	Nickel	J724-ND	7.14	6.27	5.39	142-0594-006
	Solder	.086 Semi-Rigid	Gold	J727-ND	5.71	5.01	4.31	142-0593-001
28	50Ω Terminator	—	Gold	J634-ND	38.55	33.81	29.07	142-0801-861
29	Quick Connect	7Δ	Gold	J706-ND	27.57	24.18	20.79	142-1403-001
	Quick Connect	8ΔΔ	Gold	J707-ND	27.57	24.18	20.79	142-1404-001
	Quick Connect	3**	Gold	J708-ND	27.57	24.18	20.79	142-1407-001
	Quick Connect	9ΔΔΔ	Gold	J709-ND	27.57	24.18	20.79	142-1408-001
30	Adapter	—	Gold	J710-ND	41.35	36.27	31.18	142-1901-821
31	Slide-On	RG-405	Gold	J711-ND	7.32	6.42	5.52	142-0693-061
	Slide-On	RG-402	Gold	J712-ND	7.32	6.42	5.52	142-0694-061
	Solder	.141 Semi-Rigid	Gold	J814-ND	2.77	2.44	2.09	142-0694-021

Fig.	Type (Description)	Cable Group	Plating	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Johnson Part No.
32	SMT	—	Gold	J717-ND	10.95	9.61	8.26	142-0711-301
33	SMT	—	Gold	J819-ND	5.38	4.72	4.06	142-0711-201
34	Edge Mt.	—	Gold	J799-ND	9.98	8.76	7.53	142-0761-841
	Edge Mt.	—	Gold	J805-ND	9.98	8.76	7.53	142-0761-861
35	Edge Mt.	—	Gold	J800-ND	9.98	8.76	7.53	142-0761-851
	Edge Mt.	—	Gold	J820-ND	7.63	6.70	5.76	142-0711-841
	Edge Mt.	—	Gold	J806-ND	9.98	8.76	7.53	142-0761-871
36	Edge Mt.	—	Gold	J802-ND	9.98	8.76	7.53	142-0761-891
	Edge Mt.	—	Gold	J808-ND	9.98	8.76	7.53	142-0771-831
37	PC Mt.	—	Gold	J797-ND	9.98	8.76	7.53	142-0761-801
	PC Mt.	—	Gold	J803-ND	9.98	8.76	7.53	142-0761-821
38	PC Mt.	—	Gold	J801-ND	13.24	11.61	9.98	142-0761-881
	PC Mt.	—	Gold	J807-ND	9.98	8.76	7.53	142-0771-821
39	PC Mt.	—	Gold	J804-ND	9.98	8.76	7.53	142-0761-831
40	PC Mt.	—	Gold	J798-ND	9.98	8.76	7.53	142-0761-811
				SMB Type				
41	50Ω Terminator	—	Gold	J635-ND	17.34	15.21	13.08	131-3801-811
42	Crimp	2*	Nickel	J464-ND	6.19	5.43	4.67	131-1403-016
43	Crimp	2*	Gold	J465-ND	9.17	8.05	6.92	131-1403-101
	Crimp	2*	Nickel	J466-ND	7.71	6.76	5.81	131-1403-116
	Crimp	6◊	Nickel	J815-ND	5.62	4.93	4.24	131-1404-116
44	PC Mt.	—	Gold	J467-ND†	4.53	3.98	3.42	131-1701-201
	PC Mt.	—	Nickel	J468-ND†	3.13	2.75	2.37	131-1701-206
	PC Mt.	—	Nickel	J469-ND†	3.13	2.75	2.37	131-1701-216
45	PC Mt.	—	Gold	J613-ND†	2.55	2.24	1.93	131-3701-261
	PC Mt.	—	Nickel	J614-ND†	2.43	2.13	1.84	131-3701-266
	PC Mt.	—	Gold	J615-ND†	2.55	2.24	1.93	131-3701-271
	PC Mt.	—	Nickel	J616-ND†	2.43	2.13	1.84	131-3701-276
46	PC Mt.	—	Gold	J472-ND	8.37	7.34	6.31	131-3701-301
	PC Mt.	—	Gold	J818-ND	11.09	9.73	8.36	131-8701-301
47	PC Mt.	—	Gold	J470-ND	8.73	7.66	6.58	131-1701-371
	PC Mt.	—	Nickel	J471-ND	8.40	7.37	6.34	131-1701-376
48	Panel Mt.	—	Gold	J520-ND	8.53	7.49	6.44	131-3701-621
49	PC Mt.	—	Gold	J522-ND	10.75	9.44	8.11	131-3701-341
	PC Mt.	—	Gold	J719-ND	12.54	11.00	9.46	131-3701-501
50	PC Mt.	—	Gold	J718-ND	3.67	3.22	2.77	131-3701-201
	PC Mt.	—	Nickel	J817-ND	3.81	3.34	2.88	131-8701-206
51	SMT	—	Gold	J816-ND	5.99	5.25	4.52	131-3711-201
				Non-Magnetic SMA Connectors				
4	Crimp	2*	Gold	J660-ND	15.44	13.54	11.64	142-9403-011
	Crimp	3**	Gold	J664-ND	16.73	14.67	12.62	142-9407-001
10	Crimp	2*	Gold	J662-ND	23.16	20.31	17.46	142-9403-101
	Crimp	6◊	Gold	J663-ND	21.21	18.72	16.00	142-9404-101
	Crimp	3**	Gold	J665-ND	23.80	20.88	17.95	142-9407-101
18	PC Mt.	—	Gold	J666-ND	11.14	9.77	8.40	142-9701-201
22	PC Mt.	—	Gold	J669-ND	13.25	11.63	10.00	142-9701-801
	PC Mt.	—	Gold	J670-ND	13.25	11.63	10.00	142-9701-811
				Non-Magnetic SMB Connectors				
42	Crimp	2*	Gold	J671-ND	18.60	16.31	14.02	131-9403-001
44	PC Mt.	—	Gold	J675-ND	11.07	9.71	8.35	131-9701-201
	PC Mt.	—	Gold	J676-ND	11.07	9.71	8.35	131-9701-211
46	PC Mt.	—	Gold	J677-ND	19.67	17.25	14.83	131-9701-301
52	Crimp	2*	Gold	J673-ND	26.14	22.93	19.71	131-9403-101
	Crimp	6◊	Gold	J674-ND	13.02	11.42	9.82	131-9404-101
				Tools				
Crimp Tool Frame				J572-ND	106.63	—	—	140-0000-952
Die Set for SMA, SMB Type (RG178, 316, 316DS, 58)				J573-ND	129.48	—	—	140-0000-951
Semi-Rigid Cable Vice Tool				J702-ND	557.92	—	—	140-0000-962
Cable Clamp Inserts, .086 Semi-Rigid Tool				J703-ND	96.30	—	—	140-0000-964
Cable Clamp Inserts, .141 Semi-Rigid Tool				J704-ND	96.30	—	—	140-0000-965

*	**Group 2 Cables:** RG-161/U, RG-174/U, RG-179/U, RG-187/U, RG-188/U, RG-316/U
**	**Group 3 Cables:** RG-58/U, RG-141/U, RG-303/U
‡	**Group 4 Cables:** LMR-200, HPF-200, RF-200
‡‡	**Group 5 Cables:** LMR-240, HPF-240, RF-240
◊	**Group 6 Cables:** RG-179DS, RG-187DS, RG-188DS, RG-316DS
Δ	**Group 7 Cables:** RG-161/U, RG-174/U, RG-188/U, RG-316/U, LMR-100 (LMR-100 not available in quick connect)
ΔΔ	**Group 8 Cables:** RG-188DS, RG-316DS
ΔΔΔ	**Group 9 Cables:** RG-55/U, RG-142/U, RG-223/U, RG-400/U

† **J467, J468, J613 and J614** Leg Length: .155"; **J469, J615 and J616** Leg Length: .095"

EMERSON
Network Power

JOHNSON

SMP Blind-Mate Connectors

RoHS COMPLIANT

Emerson's new Johnson® line of SMP Blind-Mate Connectors offers a Micro-Miniature, Slide-On/Snap-On Interconnect System that aids in the design of high density packaging as well as axial and radial misalignment issues. The SMP interface offers superior performance up to 40 GHz and is compatible with all SMP and GPO® Connectors. They offer high electrical reliability where extreme shock and vibration conditions are experienced.

Dim. in mm

Fig. 1

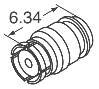

Fig. 2

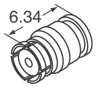

Fig. 3

Digi-Key Part-No.	Dim. A
J10002-ND	6.30
J10003-ND	6.88

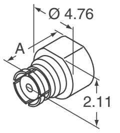

Fig. 4

Digi-Key Part-No.	Dim. A
J10004-ND	5.54
J10005-ND	5.54
J10006-ND	5.54
J10007-ND	5.94

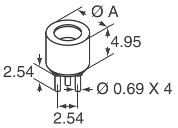

Fig. 5

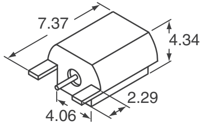

Fig. 6

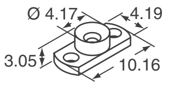

Fig. 7

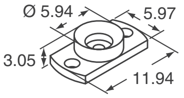

Fig. 8

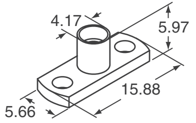

Fig. 9

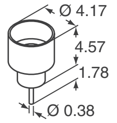

Fig. 10

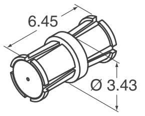

Fig. 11

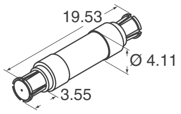

Fig	Description	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
1	Straight Solder Female M17/151	J10000-ND	15.08	13.23	11.37	127-0692-001
2	Straight Solder Female RG 405	J10001-ND	14.14	12.40	10.66	127-0693-001
3	Right Angle Solder Female M17/151	J10002-ND	22.62	19.84	17.06	127-0692-101
	Right Angle Solder Female RG 405	J10003-ND	18.85	16.53	14.21	127-0693-101
4	Receptacle Straight PC Mount Male Full Dent	J10004-ND	16.02	14.06	12.08	127-0701-201
	Receptacle Straight PC Mount Male Limited Dent	J10005-ND	16.02	14.06	12.08	127-1701-201
	Receptacle Straight PC Mount Male Smooth Bore	J10006-ND	16.02	14.06	12.08	127-2701-201
	Receptacle Straight PC Mount Male Catchers Mit	J10007-ND	16.02	14.06	12.08	127-3701-201
5	End launch Receptacle Male FD SMT	J10008-ND	16.02	14.06	12.08	127-0701-801
	End launch Receptacle Male LD SMT	J10009-ND	16.02	14.06	12.08	127-1701-801
	End launch Receptacle Male SB SMT	J10010-ND	16.02	14.06	12.08	127-2701-801
6	Flange Mount Male Shroud without Contact FD	J10011-ND	7.09	6.22	5.35	127-0701-602
	Flange Mount Male Shroud without Contact LD	J10012-ND	7.09	6.22	5.35	127-1701-602
	Flange Mount Male Shroud without Contact SB	J10013-ND	7.09	6.22	5.35	127-2701-602
7	Flange Mount Male CM without Contact	J10014-ND	7.54	6.62	5.69	127-3701-602
8	Flange Mount Male Field Receptacle FD	J10015-ND	23.56	20.67	17.77	127-0701-612
	Flange Mount Male Field Receptacle LD	J10016-ND	24.51	21.49	18.48	127-1701-612

Fig	Description	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
8	Flange Mount Male Field Receptacle SB	J10017-ND	24.51	21.49	18.48	127-2701-612
9	Hermetic Seal Male FD	J10018-ND	34.51	27.12	22.68	127-0711-601
	Hermetic Seal Male LD	J10019-ND	34.51	27.12	22.68	127-1711-601
	Hermetic Seal Male SB	J10020-ND	34.51	27.12	22.68	127-2711-601
10	Female-Female Bullet Adapter	J10021-ND	14.14	12.40	10.66	127-0901-801
11	Female-Female Adapter	J10022-ND	21.68	19.01	16.35	127-0901-811
—	SMP Bullet Extraction Tool	J10023-ND	133.00	—	—	127-0000-900
	SMP Cabled Connector Removal Tool	J10024-ND	11.70	—	—	127-0000-901
	SMP Center Contact Holder	J10025-ND	6.38	—	—	127-0000-902
	SMP Interface Locator Tool	J10026-ND	15.96	—	—	127-0000-903
	SMP Right Angle Body Holder	J10027-ND	6.38	—	—	127-0000-904
	SMP FD Shroud Centering Tool	J10028-ND	6.38	—	—	127-0000-905
	SMP LD Shroud Centering Tool	J10029-ND	6.38	—	—	127-0000-906
	SMP SB Shroud Centering Tool	J10030-ND	6.38	—	—	127-0000-907
	Adapter Male CM/Male FD	J10031-ND	23.56	20.67	17.77	127-0901-822
	Adapter Male CM/Male LD	J10032-ND	23.56	20.67	17.77	127-1901-822
	Adapter Male CM/Male SB	J10033-ND	23.56	20.67	17.77	127-2901-822

Stainless Steel SMA Connectors

RoHS COMPLIANT

Fig. 1

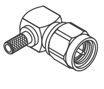

Fig. 2

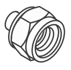

Fig. 3

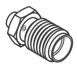

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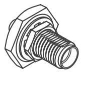

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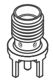

Fig. 6

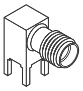

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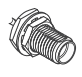

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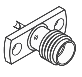

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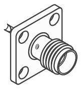

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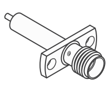

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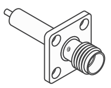

Fig.	Description	Cable Group	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
			Plugs				
1	Right Angle Crimp	RG-316, 161/U, 174, 188	J879-ND	6.14	5.39	4.64	141-0403-102
		RG-316 DS, 188 DS	J880-ND	6.23	5.47	4.70	141-0404-112
		RG-58/U, 141, 303	J881-ND	6.41	5.62	4.83	141-0407-102
		RG-142, 55/U, 223, 400	J882-ND	6.23	5.47	4.70	141-0408-102
2	Straight Crimp	RG-316, 161/U, 174, 188, LMR-100, HPF-100, RF-100	J875-ND	5.62	4.93	4.24	141-0403-012
		RG-316 DS, 188 DS	J876-ND	5.62	4.93	4.24	141-0404-012
		RG-58/U, 141, 303, RF-195 LMR-195, HPF-195	J877-ND	5.53	4.85	4.17	141-0407-012
		RG-142, 55/U, 223, 400	J878-ND	5.62	4.93	4.24	141-0408-012
	Straight Solder	RG-405, .086 Semi-Rigid	J883-ND	4.39	3.85	3.31	141-0693-002
		RG-402, .141 Semi-Rigid	J884-ND	4.48	3.93	3.38	141-0694-002
		RG-405, .086 Semi-Rigid	J886-ND	5.62	4.93	4.24	141-0693-062
		RG-402, .141 Semi-Rigid	J887-ND	5.79	5.08	4.37	141-0694-062
	Solder without Contact	RG-402, .141 Semi-Rigid	J885-ND	3.07	2.70	2.32	141-0694-012

Fig.	Description	Cable Group	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
			Jacks				
3	Straight Solder	RG-405, .086 Semi-Rigid	J892-ND	4.48	3.93	3.38	141-0593-001
		RG-402, .141 Semi-Rigid	J893-ND	4.48	3.93	3.38	141-0594-001
4	Straight Crimp Type Bulkhead Jack	RG-316, 161/U, 174, 188	J888-ND	5.09	4.47	3.84	141-0303-412
		RG-316 DS, 188 DS	J889-ND	5.18	4.54	3.91	141-0304-412
		RG-58/U, 141, 303	J890-ND	7.46	6.55	5.63	141-0307-412
		RG-142, 55/U, 223, 400	J891-ND	7.46	6.55	5.63	141-0308-412
	Bulkhead Solder	RG-405, .086 Semi-Rigid	J894-ND	7.02	6.16	5.30	141-0593-401
		RG-402, .141 Semi-Rigid	J895-ND	7.02	6.16	5.30	141-0594-401
		RG-405, .086 Semi-Rigid	J896-ND	8.78	7.70	6.62	141-0593-421
		RG-402, .141 Semi-Rigid	J897-ND	7.63	6.70	5.76	141-0594-421
5	Straight PCB	—	J898-ND	5.27	4.62	3.97	141-0701-201
6	Right Angle PCB	—	J899-ND	9.21	8.08	6.95	141-0701-301
7	Rear Mount Bulkhead Solder	—	J900-ND	5.79	5.08	4.37	141-0701-402
8	Vertical Flange Mount 2-Hole	—	J901-ND	9.67	8.48	7.29	141-0701-602
9	Vertical Flange Mount 4-Hole	—	J902-ND	9.44	8.28	7.12	141-0701-612
10	Vertical Flange Mount 2-Hole	—	J903-ND	10.01	8.78	7.55	141-0701-622
11	Vertical Flange Mount 4-Hole	—	J904-ND	9.78	8.58	7.38	141-0701-632

SMK (2.92mm) Connectors

SMK Connectors provide an excellent solution for applications requiring high frequency transmission. Similar to the SMA interface, a smaller internal body diameter (2.92mm) and air dielectric provide a higher cutoff frequency and other key advantages: • Superior electrical performance to 40GHz • Female contacts have a three-slot construction, which enhances connectivity • The Field Replacement Jacks with a high quality hermetic seal feed thru for use in sealed circuit modules • The SMK plug interface employs more precise dimensions than an SMA and uses a shorter snub nose male pin such that the connector bodies align before the contacts engage

Fig. 1
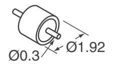

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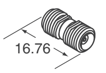

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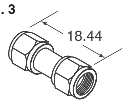

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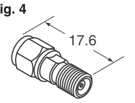

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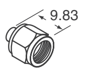

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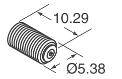

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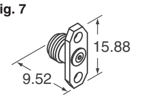

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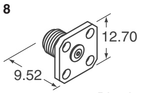

Dim. in mm

Fig.	Description	Plating	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
	Adapter						
1	Hermetic Seal Feedthru	—	J688-ND	15.73	12.36	10.34	142-1000-033
2	Jack to Jack In-series Adapter	Gold	J694-ND	81.90	70.88	63.00	145-0901-801
3	Plug to Plug In-series Adapter	Gold	J695-ND	78.00	67.50	60.00	145-0901-811
4	Plug to Jack In-series Adapter	Gold	J696-ND	71.50	61.88	55.00	145-0901-821
	Plug						
5	Straight Solder Type w/Contact, Slide-on Nut	Passivated	J689-ND	18.55	14.58	12.19	145-0693-002
	Straight Solder Type w/Contact, Slide-on Nut	Passivated	J690-ND	18.03	14.17	11.85	145-0694-002
	Receptacle						
6	Thread Mount Field Replaceable	Passivated	J691-ND	19.95	15.68	13.11	145-0701-002
7	2-Hole Flange Mount Jack	Passivated	J692-ND	30.80	24.20	20.24	145-0701-602
8	4-Hole Flange Mount Jack	Passivated	J693-ND	28.70	22.55	18.86	145-0701-612

Description	Digi-Key Part No.	Price Each	Johnson Part No.
Tools			
Bead Assembly Tool	J697-ND	27.90	140-0000-957
Body Soldering Tool for .086 Semi-Rigid	J698-ND	12.40	140-0000-958
Body Soldering Tool for .141 Semi-Rigid	J699-ND	12.40	140-0000-959
Contact Soldering Tool for .086 Semi-Rigid	J700-ND	11.62	140-0000-960
Contact Soldering Tool for .141 Semi-Rigid	J701-ND	11.62	140-0000-961
Cable Vise Tool	J702-ND	557.92	140-0000-962
Cable Clamp Insert Tool for .086 Semi-Rigid	J703-ND	96.30	140-0000-964
Cable Clamp Insert Tool for .141 Semi-Rigid	J704-ND	96.30	140-0000-965
Vise Stop Tool	J705-ND	10.85	140-0000-968

RF Connectors MMCX Type

ELECTRICAL RATINGS: • **Impedance:** 50Ω • **Frequency Range:** 0 ~ 6 GHz • **Working Voltage:** 170 Vrms at sea level • **Insulation Resistance:** 1000MΩ minimum

MECHANICAL RATINGS: • **Engagement/Disengagement Force:** 8.0 pounds maximum engagement; 1.4 pounds minimum disengagement • **Contact Retention Force:** 2.0 pounds minimum axial force • **Cable Retention:** 30 pounds • **Durability:** 500 cycles minimum

ENVIRONMENTAL RATINGS: • **Operating Temperature:** –55°C ~ 155°C

Fig. 1 – Straight Cabled Plug
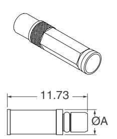

Fig. 2 – Right Angle Flexible Cabled Plug
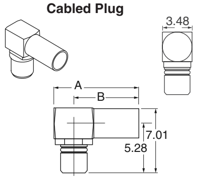

Fig. 3 – Straight Plug
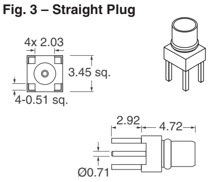

Fig. 4 – Right Angle Semi-Rigid Plug
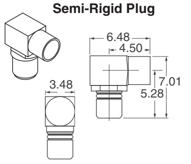

Fig. 5 – Straight Jack
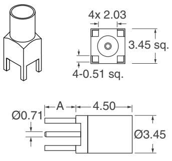

Fig. 6 – Right Angle Jack
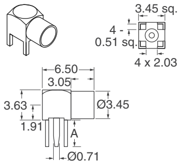

Fig. 7 – Jack Receptacle
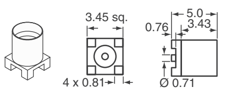

Fig. 8 – End Launch Jack
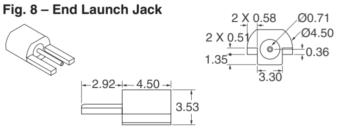

Fig.	Cable Type/Description	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
1	RG 178/U, 196	3.48	—	J589-ND	6.13	5.38	4.63	135-3402-001
	RG 316/U, 188, 161, 174	4.39	—	J590-ND	9.14	8.02	6.89	135-3403-001
	RG 316 DS, 188 DS, 187 DS	4.39	—	J591-ND	8.12	7.12	6.12	135-3404-001
	.047" Diameter Flexible, Huber K01152-07, Axon P512479A	3.48	—	J592-ND	5.31	4.66	4.01	135-3436-001
2	RG 178/U, 196	8.99	7.01	J593-ND	10.77	9.45	8.12	135-3402-101
	RG 316/U, 188, 187, 179, 161, 174	10.46	8.48	J594-ND	10.65	9.34	8.03	135-3403-101
	RG 316 DS, RG 188 DS	10.46	8.48	J595-ND	9.43	8.28	7.12	135-3404-101
	.047" Diameter Flexible, Huber K01152-07, Axon P512479A	8.99	7.01	J596-ND	9.33	8.19	7.04	135-3436-101
3	—	—	—	J601-ND	11.64	10.21	8.78	135-3801-201
4	—	—	—	J602-ND	9.33	8.19	7.04	135-3693-101
5	Straight - Gold PCB	2.92	—	J597-ND	6.19	5.43	4.67	135-3701-201
	Straight - Gold PCB	1.73	—	J598-ND	6.26	5.49	4.72	135-3701-211
6	Right Angle - Gold PCB	2.92	—	J599-ND	13.13	11.52	9.90	135-3701-301
	Right Angle - Gold PCB	1.73	—	J600-ND	12.57	11.03	9.48	135-3701-311
7	Jack Receptacle - Gold SMD	—	—	J821-ND	8.06	7.08	6.08	135-3711-201
8	End Launch - PCB	—	—	J603-ND	6.38	5.60	4.81	135-3711-801
	Hand Crimp Tool (frame only)			J572-ND		106.63/1		140-0000-952
	Crimp Tool Die Set			J604-ND		221.90/1		140-0000-953

SMA Reverse Polarity Plugs and Receptacles

Electrical Ratings: • Impedance: 50Ω • Insulation Resistance: 5000 MΩ minimum **Mechanical Ratings:** • Engagement Design: MIL-C-39012, Series SMA • Engagement/Disengagement Force: 2 inch-pounds maximum • Mating Torque: 7 ~ 10 inch-pounds • Bulkhead Mounting Nut Torque: 15 inch-pounds • Coupling Proof Torque: 15 inch-pounds minimum • Coupling Nut Retention: 60 Pounds minimum • Durability: 500 Cycles minimum **Environmental Ratings:** (Meets or exceeds the applicable paragraph of MIL-C-39012) • Temperature Range: -65°C ~ 165°C • Thermal Shock: MIL-STD-202, Method 107, Condition B • Corrosion: • MIL-STD-202, Method 101, Condition B • Shock: MIL-STD-202, Method 213, Condition I • Vibration: MIL-STD-202, Method 204, Condition D • Moisture Resistance: MIL-STD-202, Method 106 **Material Specifications:** • Bodies: Brass per QQ-B-626, Gold Plated per MIL-G-45204 .00001" minimum or nickel plated per QQ-N-290 • Contacts: Male: Brass per QQ-B-626, Gold Plated per MIL-G-45204 .00003" minimum; Female: Beryllium Copper per QQ-C-530, Gold Plated per MIL-G-45204 .00003" minimum

Fig. 1
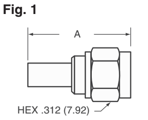

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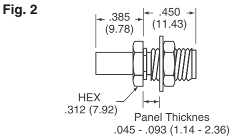

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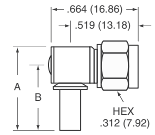

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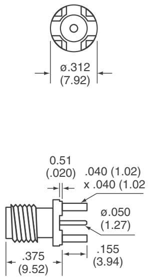

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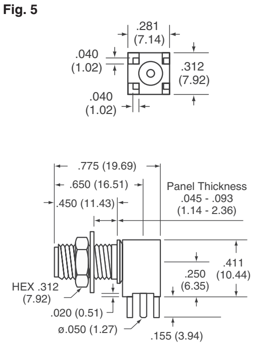

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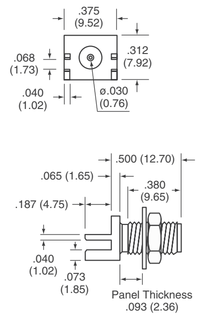

Fig.	Cable Type	Dimension - Inch (mm) A	B	VSWR (GHz)	Frequency Range (GHz)	Digi-Key Part No.	Price Each 1	10	100	Johnson Part No.
	Straight Crimp Type Plug									
1	RG-316	.706 (17.93)	—	1.15 + .02f	0 ~ 12.4	J908-ND	10.66	9.48	7.51	142-4403-001
	RG-316DS	.706 (17.93)	—	1.15 + .02f	0 ~ 12.4	J909-ND	11.05	9.83	7.78	142-4404-001
	RG-58	.706 (17.93)	—	1.17 + .025f	0 ~ 12.4	J910-ND	11.05	9.83	7.78	142-4407-001
	Straight Crimp Type Bulkhead Jack									
2	RG-316	—	—	—	—	J905-ND	9.30	8.27	6.55	142-4303-401
	RG-316DS	—	—	—	—	J906-ND	9.70	8.63	6.83	142-4304-401
	RG-58	—	—	—	—	J907-ND	11.16	9.92	7.86	142-4307-40
	Right Angle Crimp Type Plug									
3	RG-316	.611 (15.52)	.470 (11.94)	1.15 + .03f	0 ~ 12.4	J911-ND	11.45	10.18	8.06	142-4403-101
	RG-316DS	.611 (15.52)	.470 (11.94)	1.15 + .03f	0 ~ 12.4	J912-ND	11.05	9.83	7.78	142-4404-101
	RG-58	.611 (15.52)	.470 (11.94)	1.17 + .06f	0 ~ 12.4	J913-ND	11.84	10.53	8.34	142-4407-101
	LMR-240	.635 (16.13)	.490 (12.45)	1.10 + .06f	0 ~ 12.4	J914-ND	11.39	10.13	8.02	142-4435-10
	Receptacles									
4	Straight Jack					J915-ND	6.32	5.62	4.45	142-4701-201
5	Right Angle Bulkhead Jack					J916-ND	12.42	11.04	8.74	142-4701-501
6	End Launch Bulkhead Jack					J917-ND	7.20	6.41	5.07	142-4701-801

EMERSON
Network Power

JOHNSON®

RoHS COMPLIANT

Fixed Length Cables and Adapters

Features: • Tested to customer specifications • Flexible cable • 0GHz ~ 26GHz • 50Ω and 75Ω • Controlled impedance **Applications:** • Voltage/Continuity Test Fixture • Interface location gauging • VSWR Quality Assurance Scalar Analyzer • VSWR/TDR Design Engineering Vector Analyzer • CNC Hardline Bender (Semi-rigid cables)

Straight to Straight

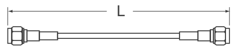

Right Angle to Right Angle

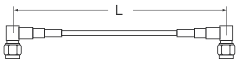

Straight to Right Angle

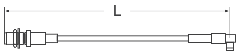

Straight to Straight Cables

Cable Type	Dimension L (Inch)	Digi-Key Part No.	Price Each			Johnson Part No.
			1	10	25	
SMB Plug to SMB Plug						
RG-316	6	J1206-ND	18.52	13.89	11.73	415-0003-006
	12	J1212-ND	19.03	14.28	12.06	415-0003-012
	24	J1224-ND	20.57	15.43	13.03	415-0003-024
	36	J1236-ND	21.60	16.20	13.68	415-0003-036
SMB 75Ω Plug to SMB 75Ω Plug						
RG-179	6	J1606-ND	19.03	14.28	12.06	415-0008-006
	12	J1612-ND	20.06	15.05	12.71	415-0008-012
	24	J1624-ND	21.60	16.20	13.68	415-0008-024
	36	J1636-ND	23.66	17.75	14.99	415-0008-036
RG-179DS	6	J1806-ND	19.55	14.66	12.38	415-0010-006
	12	J1812-ND	21.09	15.82	13.36	415-0010-012
MCX Plug to MCX Plug						
RG-178	6	J2206-ND	17.49	13.12	11.08	415-0014-006
	12	J2212-ND	18.52	13.89	11.73	415-0014-012
	24	J2224-ND	20.57	15.43	13.03	415-0014-024
	36	J2236-ND	22.63	16.98	14.34	415-0014-036
MCX Plug to MCX Bulkhead Jack						
RG-316	6	J2406-ND	21.09	15.82	13.36	415-0016-006
	12	J2412-ND	21.60	16.20	13.68	415-0016-012
	24	J2424-ND	22.63	16.98	14.34	415-0016-024
	36	J2436-ND	24.17	18.14	15.32	415-0016-036
MCX 75Ω Plug to MCX 75Ω Plug						
RG-179	6	J3006-ND	24.17	18.14	15.32	415-0022-006
	12	J3012-ND	25.20	18.90	15.96	415-0022-012
	24	J3024-ND	26.75	20.06	16.94	415-0022-024
	36	J3036-ND	28.80	21.60	18.24	415-0022-036
MMCX Plug to MMCX Plug						
RG-178	6	J728-ND	26.57	19.93	16.83	415-0066-006
	12	J729-ND	27.99	20.99	17.73	415-0066-012
	18	J730-ND	27.10	20.33	17.17	415-0066-018
	24	J731-ND	30.59	22.95	19.38	415-0066-024
RG-316	6	J732-ND	31.07	23.31	19.69	415-0067-006
	12	J733-ND	32.06	24.05	20.31	415-0067-012
	18	J734-ND	32.70	24.53	20.72	415-0067-018
	24	J735-ND	33.89	25.42	21.47	415-0067-024
MMCX Plug to SMA Bulkhead Jack						
RG-178	6	J744-ND	28.99	21.75	18.36	415-0070-006
	12	J745-ND	30.30	22.73	19.19	415-0070-012
	18	J746-ND	31.79	23.85	20.14	415-0070-018
	24	J747-ND	33.10	24.83	20.97	415-0070-024
	36	J748-ND	36.47	27.36	23.10	415-0070-036
RG-316	6	J749-ND	29.88	22.42	18.93	415-0071-006
	12	J750-ND	30.79	23.10	19.51	415-0071-012
	18	J751-ND	31.65	23.74	20.05	415-0071-018
	24	J752-ND	32.79	24.60	20.77	415-0071-024
	36	J753-ND	35.27	26.46	22.34	415-0071-036
SMA Plug to SMA Plug						
RG-178	6	J3306-ND	19.24	14.43	12.19	415-0025-006
	12	J3312-ND	20.37	15.28	12.90	415-0025-012
	24	J3324-ND	22.63	16.98	14.34	415-0025-024
	36	J3336-ND	26.59	19.95	16.84	415-0025-036
RG-316	6	J3706-ND	16.18	12.14	10.25	415-0029-006
	12	J3712-ND	17.26	12.95	10.93	415-0029-012
	24	J3724-ND	16.98	12.74	10.76	415-0029-024
	36	J3736-ND	19.86	14.90	12.58	415-0029-036
	48	J3848-ND	21.36	16.02	13.53	415-0030-048
RG-316DS	6	J4106-ND	16.18	12.14	10.25	415-0033-006
	12	J4112-ND	16.70	12.53	10.58	415-0033-012
	24	J4124-ND	18.79	14.09	11.90	415-0033-024
	36	J4136-ND	20.84	15.63	13.20	415-0033-036
	48	J4148-ND	21.27	15.96	13.48	415-0033-048
RG-58	12	J4612-ND	18.52	13.89	11.73	415-0038-012
	24	J4624-ND	19.55	14.66	12.38	415-0038-024
	36	J4636-ND	20.57	15.43	13.03	415-0038-036
RG-142	12	J5112-ND	23.15	17.36	14.66	415-0043-012
	24	J5124-ND	29.83	22.38	18.90	415-0043-024
	36	J5136-ND	36.52	27.39	23.13	415-0043-036
Hand Formable .086	3	J822-ND	19.35	14.52	12.26	415-0081-003
	4	J823-ND	19.88	14.91	12.59	415-0081-004
	5	J824-ND	20.40	15.30	12.92	415-0081-005
	6	J825-ND	21.00	15.75	13.30	415-0081-006
	7	J826-ND	21.53	16.15	13.64	415-0081-007
	8	J827-ND	22.13	16.60	14.02	415-0081-008
	12	J828-ND	24.38	18.29	15.44	415-0081-012
	18	J829-ND	27.71	20.79	17.56	415-0081-018
	24	J830-ND	31.05	23.29	19.67	415-0081-024
Hand Formable .141	3	J831-ND	22.20	16.65	14.06	415-0082-003
	4	J832-ND	22.88	17.16	14.49	415-0082-004
	5	J833-ND	23.78	17.84	15.06	415-0082-005
	6	J834-ND	24.49	18.37	15.51	415-0082-006
	7	J835-ND	29.32	21.99	18.57	415-0082-007
Hand Formable .141	8	J836-ND	26.06	19.55	16.51	415-0082-008
	12	J837-ND	28.80	21.60	18.24	415-0082-012
	18	J838-ND	32.55	24.42	20.62	415-0082-018
	24	J839-ND	36.30	27.23	22.99	415-0082-024
SMA Plug to SMA Bulkhead Jack						
RG-316	6	J3906-ND	18.00	13.50	11.40	415-0031-006
	12	J3912-ND	19.05	14.29	12.07	415-0031-012
	24	J3924-ND	20.11	15.09	12.74	415-0031-024
	36	J3936-ND	21.47	16.11	13.60	415-0031-036
RG-316DS	6	J4306-ND	17.49	13.12	11.08	415-0035-006
	12	J4312-ND	18.52	13.89	11.73	415-0035-012
	24	J4324-ND	20.57	15.43	13.03	415-0035-024
	36	J4336-ND	22.12	16.59	14.01	415-0035-036
RG-58	12	J4812-ND	23.66	17.75	14.99	415-0040-012
	24	J4824-ND	24.69	18.52	15.64	415-0040-024
	36	J4836-ND	25.72	19.29	16.29	415-0040-036
BNC Plug to BNC Plug						
RG-58	12	J6212-ND	11.83	8.88	7.50	415-0054-012
	24	J6224-ND	12.86	9.65	8.15	415-0054-024
	36	J6236-ND	14.40	10.80	9.12	415-0054-036
Belden 8218	12	J6412-ND	11.83	8.88	7.50	415-0056-012
	24	J6424-ND	13.37	10.03	8.47	415-0056-024
	36	J6436-ND	14.40	10.80	9.12	415-0056-036
RG-59	12	J6512-ND	11.83	8.88	7.50	415-0057-012
	24	J6524-ND	13.37	10.03	8.47	415-0057-024
	36	J6536-ND	14.40	10.80	9.12	415-0057-036
BNC 75Ω Plug to BNC 75Ω Plug						
Belden 8218	12	J5512-ND	16.41	12.31	10.40	415-0047-012
	24	J5524-ND	17.47	13.10	11.07	415-0047-024
	36	J5536-ND	18.97	14.23	12.02	415-0047-036
RG-59	12	J5612-ND	16.97	12.73	10.75	415-0048-012
	24	J5624-ND	18.00	13.50	11.40	415-0048-024
Belden 735A	12	J5912-ND	19.03	14.28	12.06	415-0051-012
	24	J5924-ND	22.63	16.98	14.34	415-0051-024
	36	J5936-ND	26.75	20.06	16.94	415-0051-036
N Plug to N Plug						
RG-58	12	J6612-ND	16.97	12.73	10.75	415-0058-012
	24	J6624-ND	18.00	13.50	11.40	415-0058-024
	36	J6636-ND	19.55	14.66	12.38	415-0058-036
	48	J989-ND	26.67	20.00	16.89	415-0058-048
RG-142	12	J6812-ND	22.63	16.98	14.34	415-0060-012
	24	J6824-ND	29.32	21.99	18.57	415-0060-024
	36	J6836-ND	36.00	27.01	22.81	415-0060-036
RG-8	12	J7012-ND	21.09	15.82	13.36	415-0062-012
	24	J7024-ND	25.72	19.29	16.29	415-0062-024
	36	J7036-ND	29.83	22.38	18.90	415-0062-036
SMA Plug to N Plug						
RG-58	12	J6712-ND	17.49	13.12	11.08	415-0059-012
	24	J6724-ND	19.03	14.28	12.06	415-0059-024
	36	J6736-ND	20.06	15.05	12.71	415-0059-036
RG-142	12	J6912-ND	22.63	16.98	14.34	415-0061-012
	24	J6924-ND	29.83	22.38	18.90	415-0061-024
	36	J6936-ND	36.00	27.01	22.81	415-0061-036
SMA Plug to BNC Plug						
RG-316	6	J3606-ND	16.36	12.27	10.37	415-0028-006
	12	J3612-ND	16.80	12.60	10.64	415-0028-012
	24	J3624-ND	17.80	13.36	11.28	415-0028-024
	36	J3636-ND	19.19	14.39	12.16	415-0028-036
RG-58	12	J4512-ND	13.81	10.36	8.75	415-0037-012
	24	J4524-ND	16.46	12.35	10.43	415-0037-024
	36	J4536-ND	17.49	13.12	11.08	415-0037-036
RG-142	12	J5012-ND	20.57	15.43	13.03	415-0042-012
	24	J5024-ND	26.75	20.06	16.94	415-0042-024
	36	J5036-ND	33.43	25.08	21.18	415-0042-036
SMA Quick-Connect Plug to SMA Plug						
RG-316DS	12	J791-ND	44.66	33.50	28.29	415-0078-012
	24	J792-ND	46.34	34.76	29.35	415-0078-024
	36	J793-ND	48.77	36.58	30.89	415-0078-036
RG-142	12	J794-ND	51.01	38.26	32.31	415-0079-012
	24	J795-ND	57.92	43.45	36.69	415-0079-024
	36	J796-ND	63.68	47.76	40.33	415-0079-036
SMA Quick-Connect Plug to SMA Quick-Connect Plug						
RG-316	6	J779-ND	71.82	53.87	45.49	415-0065-006
	12	J780-ND	72.94	54.71	46.20	415-0065-012
	18	J781-ND	73.87	55.41	46.79	415-0065-018
	24	J782-ND	74.81	56.11	47.38	415-0065-024
	36	J783-ND	76.68	57.51	48.57	415-0065-036
	48	J784-ND	78.55	58.92	49.75	415-0065-048
RG-316DS	12	J785-ND	71.00	53.26	44.97	415-0076-012
	24	J786-ND	72.87	54.66	46.16	415-0076-024
	36	J787-ND	75.11	56.34	47.58	415-0076-036
RG-142	12	J788-ND	76.42	57.32	48.41	415-0077-012
	24	J789-ND	83.34	62.51	52.78	415-0077-024
	36	J790-ND	84.08	63.07	53.26	415-0077-036

(Continued)

Fixed Length Cables and Adapters *(Cont.)*

Right Angle to Right Angle Cables

Cable Type	Dimension L (Inch)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Johnson Part No.
SMB Plug to SMB Plug						
RG-178	6	J1006-ND	20.57	15.43	13.03	415-0001-006
	12	J1012-ND	21.60	16.20	13.68	415-0001-012
	24	J1024-ND	23.66	17.75	14.99	415-0001-024
	36	J1036-ND	25.72	19.29	16.29	415-0001-036
RG-316	6	J7306-ND	19.03	14.28	12.06	415-0004-006
	12	J7312-ND	19.55	14.66	12.38	415-0004-012
	24	J7324-ND	21.09	15.82	13.36	415-0004-024
	36	J7336-ND	22.63	16.98	14.34	415-0004-036
MCX Plug to MCX Plug						
RG-178	6	J2306-ND	16.97	12.73	10.75	415-0015-006
	12	J2312-ND	18.52	13.89	11.73	415-0015-012
	24	J2324-ND	20.06	15.05	12.71	415-0015-024
	36	J2336-ND	22.63	16.98	14.34	415-0015-036
RG-316	6	J2706-ND	18.11	13.58	11.47	415-0019-006
	12	J2712-ND	18.67	14.01	11.83	415-0019-012
	24	J2724-ND	20.37	15.28	12.90	415-0019-024
	36	J2736-ND	21.50	16.13	13.62	415-0019-036
RG-316DS	6	J2906-ND	18.11	13.58	11.47	415-0021-006
	12	J2912-ND	17.81	13.36	11.29	415-0021-012
	24	J2924-ND	20.93	15.70	13.26	415-0021-024
	36	J2936-ND	22.63	16.98	14.34	415-0021-036
MMCX Plug to MMCX Plug						
RG-178	6	J736-ND	34.95	26.22	22.14	415-0068-006
	12	J737-ND	36.47	27.36	23.10	415-0068-012
	18	J738-ND	37.78	28.34	23.93	415-0068-018
	24	J739-ND	39.09	29.32	24.76	415-0068-024
RG-316	6	J740-ND	32.73	24.55	20.73	415-0069-006
	12	J741-ND	33.66	25.25	21.32	415-0069-012
	18	J742-ND	34.60	25.95	21.92	415-0069-018
	24	J743-ND	35.54	26.66	22.51	415-0069-024
SMA Plug to SMA Plug						
RG-178	6	J3506-ND	24.17	18.14	15.32	415-0027-006
	12	J3512-ND	25.20	18.90	15.96	415-0027-012
	24	J3524-ND	27.77	20.84	17.60	415-0027-024
	36	J3536-ND	29.83	22.38	18.90	415-0027-036
RG-316	6	J4006-ND	20.06	15.05	12.71	415-0032-006
	12	J4012-ND	20.57	15.43	13.03	415-0032-012
	24	J4024-ND	22.12	16.59	14.01	415-0032-024
	36	J4036-ND	23.66	17.75	14.99	415-0032-036
RG-316DS	6	J4406-ND	22.63	16.98	14.34	415-0036-006
	12	J4412-ND	21.48	16.11	13.61	415-0036-012
	24	J4424-ND	24.89	18.68	15.77	415-0036-024
	36	J4436-ND	25.14	18.86	15.93	415-0036-036
RG-58	12	J4912-ND	20.95	15.72	13.27	415-0041-012
	24	J4924-ND	23.66	17.75	14.99	415-0041-024
	36	J4936-ND	24.69	18.52	15.64	415-0041-036

Straight to Right Angle Cables

Cable Type	Dimension L (Inch)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Johnson Part No.
SMB Plug to SMB Plug						
RG-316	6	J1106-ND	18.52	13.89	11.73	415-0002-006
	12	J1112-ND	19.55	14.66	12.38	415-0002-012
	24	J1124-ND	20.57	15.43	13.03	415-0002-024
	36	J1136-ND	22.12	16.59	14.01	415-0002-036
RG-178	6	J1506-ND	22.63	16.98	14.34	415-0007-006
	12	J1512-ND	23.66	17.75	14.99	415-0007-012
	24	J1524-ND	26.23	19.68	16.62	415-0007-024
	36	J1536-ND	28.29	21.22	17.92	415-0007-036
MCX Plug to MCX Plug						
RG-316	6	J2506-ND	16.97	12.73	10.75	415-0017-006
	12	J2512-ND	17.54	13.16	11.11	415-0017-012
	24	J2524-ND	18.67	14.01	11.83	415-0017-024
	36	J2536-ND	20.37	15.28	12.90	415-0017-036
SMA Plug to SMA Plug						
RG-178	6	J3406-ND	21.91	16.43	13.88	415-0026-006
	12	J3412-ND	22.87	17.15	14.49	415-0026-012
	24	J3424-ND	24.99	18.75	15.83	415-0026-024
	36	J3436-ND	27.65	20.75	17.52	415-0026-036
RG-316	6	J3806-ND	18.00	13.50	11.40	415-0030-006
	12	J3812-ND	18.52	13.89	11.73	415-0030-012
	24	J3824-ND	19.47	14.61	12.34	415-0030-024
	36	J3836-ND	21.50	16.13	13.62	415-0030-036
RG-316DS	6	J4206-ND	18.00	13.50	11.40	415-0034-006
	12	J4212-ND	19.03	14.28	12.06	415-0034-012
	24	J4224-ND	20.57	15.43	13.03	415-0034-024
	36	J4236-ND	22.12	16.59	14.01	415-0034-036
RG-142	12	J5212-ND	25.20	18.90	15.96	415-0044-012
	24	J5224-ND	31.89	23.92	20.20	415-0044-024
	36	J5236-ND	38.57	28.94	24.44	415-0044-036
SMA Bulkhead Jack to MMCX Plug						
RG-178	6	J754-ND	33.07	24.81	20.95	415-0072-006
	12	J755-ND	34.57	25.93	21.90	415-0072-012
	18	J756-ND	35.88	26.91	22.73	415-0072-018
	24	J757-ND	37.19	27.89	23.56	415-0072-024
	36	J758-ND	40.73	30.56	25.80	415-0072-036
RG-316	6	J759-ND	30.18	22.64	19.12	415-0073-006
	12	J760-ND	31.02	23.27	19.65	415-0073-012
	18	J761-ND	32.14	24.11	20.36	415-0073-018
	24	J762-ND	33.07	24.81	20.95	415-0073-024
	36	J763-ND	35.50	26.63	22.49	415-0073-036
SMA Bulkhead Jack to SMA Plug						
RG-316	6	J764-ND	27.84	20.88	17.64	415-0074-006
	12	J765-ND	28.78	21.59	18.23	415-0074-012
	24	J766-ND	30.65	22.99	19.41	415-0074-024
	36	J767-ND	33.26	24.95	21.07	415-0074-036
	48	J768-ND	35.13	26.35	22.25	415-0074-048
RG-316DS	6	J769-ND	28.52	21.40	18.07	415-0064-006
	12	J7212-ND	29.30	21.98	18.56	415-0064-012
	24	J7224-ND	31.08	23.32	19.69	415-0064-024
	36	J7236-ND	33.49	25.12	21.21	415-0064-036
	48	J773-ND	32.28	24.22	20.45	415-0064-048
RG-142	6	J774-ND	33.26	24.95	21.07	415-0075-006
	12	J775-ND	36.81	27.61	23.32	415-0075-012
	24	J776-ND	43.91	32.94	27.82	415-0075-024
	36	J777-ND	51.57	38.68	32.67	415-0075-036
	48	J778-ND	58.49	43.87	37.05	415-0075-048

Adapters

Dimensions in (mm)

Fig. 1

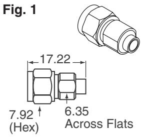

Fig. 2

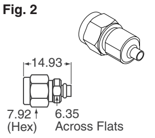

Fig. 3

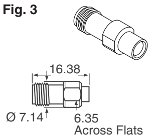

Fig. 4

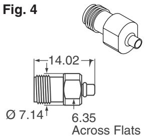

Fig. 5

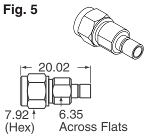

Fig. 6

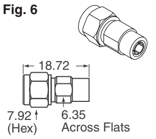

Fig. 7

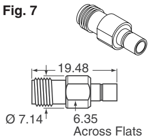

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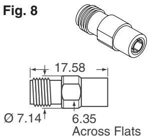

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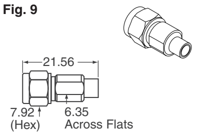

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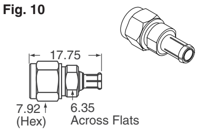

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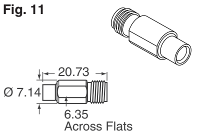

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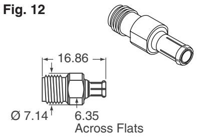

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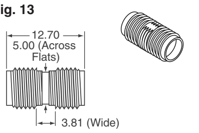

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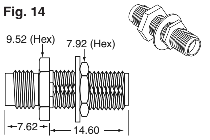

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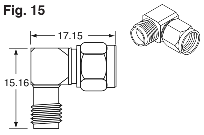

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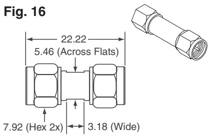

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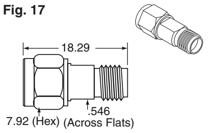

Fig.	Description	VSWR (GHz)	Frequency Range (GHz)	Digi-Key Part No.	Price Each 1	Price Each 10	Johnson Part No.
1	SMA Plug to MMCX Jack	1.05 + .05f	0 ~ 6	J617-ND	39.60	32.87	134-1019-151
2	SMA Plug to MMCX Plug	1.05 + .05f	0 ~ 6	J618-ND	42.90	35.61	134-1019-161
3	SMA Jack to MMCX Jack	1.05 + .05f	0 ~ 6	J619-ND	36.30	30.14	134-1019-171
4	SMA Jack to MMCX Plug	1.05 + .05f	0 ~ 6	J620-ND	39.60	32.87	134-1019-181
5	SMA Plug to SMB Jack	1.05 + .01f	0 ~ 4	J621-ND	36.30	30.14	134-1012-011
6	SMA Plug to SMB Plug	1.05 + .01f	0 ~ 4	J622-ND	39.60	32.87	134-1012-021
7	SMA Jack to SMB Jack	1.05 + .01f	0 ~ 4	J623-ND	36.30	30.14	134-1012-031
8	SMA Jack to SMB Plug	1.05 + .01f	0 ~ 4	J624-ND	37.23	30.91	134-1012-041
9	SMA Plug to MCX Jack	1.03 + .03f	0 ~ 6	J625-ND	36.30	30.14	134-1018-001
10	SMA Plug to MCX Plug	1.03 + .03f	0 ~ 6	J626-ND	39.60	32.87	134-1018-011
11	SMA Jack to MCX Jack	1.03 + .03f	0 ~ 6	J627-ND	36.30	30.14	134-1018-021
12	SMA Jack to MCX Plug	1.03 + .03f	0 ~ 6	J628-ND	36.30	30.14	134-1018-031
13	SMA Jack to SMA Jack	1.05 + .005f	0 ~ 18	J655-ND	18.97	16.64	142-0901-801
14	SMA Jack to SMA Bulkhead Jack	1.05 + .01f	0 ~ 18	J659-ND	27.08	23.75	142-0901-401
15	SMA Jack to SMA Plug / Rt. Angle	1.035 + .02f	0 ~ 18	J632-ND	24.54	21.52	142-0901-941
16	SMA Plug to SMA Plug	1.05 + .01f	0 ~ 18	J633-ND	21.87	19.18	142-0901-811
17	SMA Plug to SMA Jack	1.05 + .005f	0 ~ 18	J656-ND	14.25	12.50	142-0901-821

Note: All Adapters are Gold plated.

Ultra Miniature Cables and Accessories

Emerson's UMC Ultraminiature Coaxial Connectors and Cable Assemblies are the answer for quality, snap-on connections built to meet your cost and performance targets. The UMC cable plugs and jack receptacles offer 2.0mm and 2.5mm maximum mated height options with DC to 6 GHz electrical performance.

Applications: • Wireless LAN, Mini-PCI and Hand-Held RF Devices • GSM, GPRS and CDMA Mobile Phones • PDA and Notebook Computer • GPS • Bluetooth • Microwave radio and measurement **Features:** • Excellent cost to performance ratio • All cabled plugs and jack receptacles are supplied with gold plated contacts and bodies **Product Specifications:** • Impedance: 50Ω (nominal) • Temperature Range: -40°C ~ 90°C • Frequency Rating: 0GHz ~ 6GHz • VSWR: 1.30 maximum (0GHz ~ 6GHz) • Contact Resistance: 20mΩ maximum (Center), 20mΩ maximum (Outer, for plug), 10mΩ maximum (Outer, for receptacle) • Withstanding Voltage: 200VAC • Insulation Resistance: 500MΩ minimum • Durability: 30 cycles • Holding Force (minimum): 0.15 N (Female contact)

Fig. 1

Right Angle to Right Angle

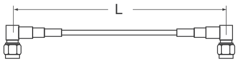

Fig. 2

Straight to Right Angle

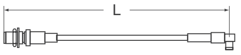

Fig. 3

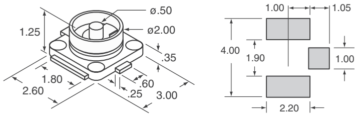

Fig. 4

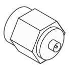

Fig. 5

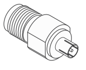

Fig. 6

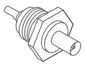

Fig.	Coaxial Cable ø(mm)	Plug Mated Height (mm)	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	100	Johnson Part No.
Right Angle to Right Angle Cables								
Low Profile UMC Right Angle Cable Plug to UMC Right Angle Cable Plug								
1	.081	2.0	50	J918-ND	3.58	3.18	2.52	415-0084-050
			100	J919-ND	3.75	3.34	2.64	415-0084-100
			150	J920-ND	3.98	3.54	2.81	415-0084-150
			200	J921-ND	4.12	3.66	2.90	415-0084-200
			250	J922-ND	4.25	3.78	3.00	415-0084-250
			300	J923-ND	4.46	3.96	3.14	415-0084-300
			500	J924-ND	5.20	4.62	3.66	415-0084-500
Medium Profile UMC Right Angle Cable Plug to UMC Right Angle Cable Plug								
1	.081	2.5	50	J925-ND	3.58	3.18	2.52	415-0085-050
			100	J926-ND	3.75	3.34	2.64	415-0085-100
			150	J927-ND	3.98	3.54	2.81	415-0085-150
			200	J928-ND	4.12	3.66	2.90	415-0085-200
			250	J929-ND	4.25	3.78	3.00	415-0085-250
			300	J930-ND	4.46	3.96	3.14	415-0085-300
			500	J931-ND	5.20	4.62	3.66	415-0085-500
1	1.13	2.5	50	J932-ND	3.58	3.18	2.52	415-0086-050
			100	J933-ND	3.75	3.34	2.64	415-0086-100
			150	J934-ND	3.98	3.54	2.81	415-0086-150
			200	J935-ND	4.12	3.66	2.90	415-0086-200
			250	J936-ND	4.25	3.78	3.00	415-0086-250
			300	J937-ND	4.46	3.96	3.14	415-0086-300
			500	J938-ND	5.20	4.62	3.66	415-0086-500
1	1.32	2.5	50	J939-ND	3.58	3.18	2.52	415-0087-050
			100	J940-ND	3.75	3.34	2.64	415-0087-100
			150	J941-ND	3.98	3.54	2.81	415-0087-150
			200	J942-ND	4.12	3.66	2.90	415-0087-200
			250	J943-ND	4.25	3.78	3.00	415-0087-250
			300	J944-ND	4.46	3.96	3.14	415-0087-300
			500	J945-ND	5.20	4.62	3.66	415-0087-500
1	1.37	2.5	50	J946-ND	3.58	3.18	2.52	415-0088-050
			100	J947-ND	3.75	3.34	2.64	415-0088-100
			150	J948-ND	3.98	3.54	2.81	415-0088-150
			200	J949-ND	4.12	3.66	2.90	415-0088-200
			250	J950-ND	4.25	3.78	3.00	415-0088-250
			300	J951-ND	4.46	3.96	3.14	415-0088-300
			500	J952-ND	5.20	4.62	3.66	415-0088-500
Low Profile UMC Right Angle Cable Plug to MMCX Right Angle Crimp Plug								
1	.81	2.0	150	J977-ND	25.76	22.90	18.13	415-0101-150
			250	J978-ND	26.27	23.36	18.49	415-0101-250
Medium Profile UMC Right Angle Cable Plug to MMCX Right Angle Crimp Plug								
1	.81	2.5	150	J979-ND	25.76	22.90	18.13	415-0102-150
			250	J980-ND	26.27	23.36	18.49	415-0102-250
	1.37	2.5	150	J981-ND	25.76	22.90	18.13	415-0103-150
			250	J982-ND	26.27	23.36	18.49	415-0103-250
Right Angle to Straight Cables								
Low Profile UMC Right Angle Cable Plug to SMA Straight Crimp Plug								
2	.81	2.0	150	J953-ND	27.65	24.58	19.46	415-0089-150
			250	J954-ND	28.35	25.20	19.95	415-0089-250

Fig.	Coaxial Cable ø(mm)	Plug Mated Height (mm)	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	100	Johnson Part No.
Medium Profile UMC Right Angle Cable Plug to SMA Straight Crimp Plug								
2	.81	2.5	150	J955-ND	27.65	24.58	19.46	415-0090-150
			250	J956-ND	28.35	25.20	19.95	415-0090-250
	1.37	2.5	150	J957-ND	27.65	24.58	19.46	415-0091-150
			250	J958-ND	22.73	20.21	16.00	415-0091-250
Low Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Plug								
2	.81	2.0	150	J959-ND	26.62	23.67	18.74	415-0092-150
			250	J960-ND	27.14	24.12	19.10	415-0092-250
Medium Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Plug								
2	.81	2.5	150	J961-ND	26.62	23.67	18.74	415-0093-150
			250	J962-ND	27.14	24.12	19.10	415-0093-250
	1.37	2.5	150	J963-ND	26.62	23.67	18.74	415-0094-150
			250	J964-ND	27.14	24.12	19.10	415-0094-250
Low Profile UMC Right Angle Cable Plug to SMA Straight Crimp Bulkhead Jack								
2	.81	2.0	150	J965-ND	26.95	23.96	18.97	415-0095-150
			250	J966-ND	27.49	24.44	19.35	415-0095-250
Medium Profile UMC Right Angle Cable Plug to SMA Straight Crimp Bulkhead Jack								
2	.81	2.5	150	J967-ND	26.95	23.96	18.97	415-0096-150
			250	J968-ND	27.49	24.44	19.35	415-0096-250
	1.37	2.5	150	J969-ND	26.95	23.96	18.97	415-0097-150
			250	J970-ND	27.49	24.44	19.35	415-0097-250
Low Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Bulkhead Jack								
2	.81	2.0	150	J971-ND	30.08	26.74	21.17	415-0098-150
			250	J972-ND	30.40	27.03	21.40	415-0098-250
Medium Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Bulkhead Jack								
2	.81	2.5	150	J973-ND	30.08	26.74	21.17	415-0099-150
			250	J974-ND	30.40	27.03	21.40	415-0099-250
	1.37	2.5	150	J975-ND	30.08	26.74	21.17	415-0100-150
			250	J976-ND	30.40	27.03	21.40	415-0100-250
Low Profile UMC Right Angle Cable Plug to Bare End								
—	.81	2.5	150	J10034-ND	2.50	2.22	1.76	415-0104-150
			250	J10035-ND	2.80	2.50	1.98	415-0104-250
Medium Profile UMC Right Angle Cable Plug to Bare End								
—	.81	2.5	150	J10036-ND	2.50	2.22	1.76	415-0105-150
			250	J10037-ND	2.80	2.50	1.98	415-0105-250
—	1.13	2.5	150	J10038-ND	2.50	2.22	1.76	415-0106-150
			250	J10039-ND	2.80	2.50	1.98	415-0106-250
—	1.32	2.5	150	J10040-ND	2.50	2.22	1.76	415-0107-150
			250	J10041-ND	2.80	2.50	1.98	415-0107-250
—	1.37	2.5	150	J10042-ND	2.50	2.22	1.76	415-0108-150
			250	J10043-ND	2.80	2.50	1.98	415-0108-250
Connectors and Accessories								
UMC PCB Jack Receptacle - Surface Mount								
3	Straight Jack Receptacle			J983CT-ND	1.03	.64	.47	128-0711-201
				J983TR-ND		891.75/2,500		128-0711-201
SMA Conversion Adapters								
4	SMA Plug to UMC Jack			J985-ND	135.00	120.00	95.00	134-1019-361
5	SMA Jack to UMC Plug			J986-ND	135.00	120.00	95.00	134-1019-371
6	SMA Adapter for Surface Mount Jack			J987-ND	141.75	126.00	99.75	134-1019-381
Tool								
—	UMC Separation Key			J984-ND	3.78	3.36	2.66	128-0000-901

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Fig. 1
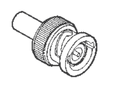

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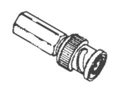

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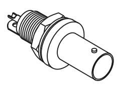

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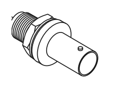

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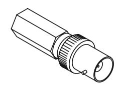

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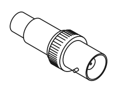

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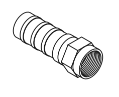

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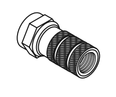

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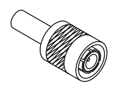

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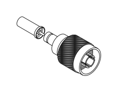

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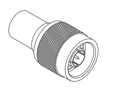

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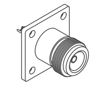

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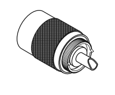

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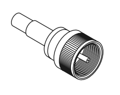

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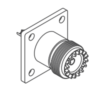

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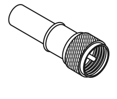

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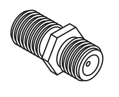

Fig. 18
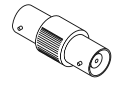

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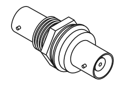

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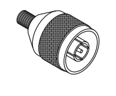

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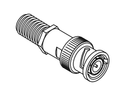

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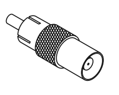

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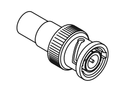

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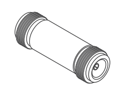

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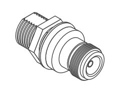

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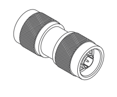

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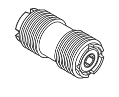

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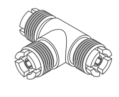

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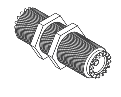

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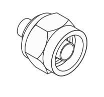

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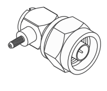

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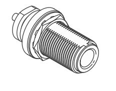

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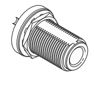

Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	50	Emerson Part No.
Connectors								
True 75 Ohm BNC								
1	Plug	Crimp-Type, Solder or Crimp Contact, 75Ω	RG-6, Belden 8215	367-1069-ND	5.97	5.43	4.34	CPMC-68-5
			RG-179, 187, Belden 1520A	367-1072-ND	6.44	5.85	4.68	CPMC-68-20
BNC								
1	Plug	Crimp-Type Push-On, 50Ω	RG-58	367-1001-ND	2.05	1.87	1.50	CP-88-1
			RG-59, 62	367-1002-ND	1.97	1.79	1.44	CP-88-2
			RG-6	367-1004-ND	2.11	1.92	1.54	CP-88-5
		Crimp-Type, Solder or Crimp Contact, 50Ω	RG-179, 187	367-1043-ND	2.62	2.38	1.91	CPM-88-20
			RG-174, 188,316	367-1044-ND	2.62	2.38	1.91	CPM-88-19
			RG-58, 141	367-1047-ND	2.62	2.38	1.91	CPMC-88-1
			RG-59, 62	367-1048-ND	2.62	2.38	1.91	CPMC-88-2
			RG-59, 62, TFE	367-1050-ND	2.62	2.38	1.91	CPMC-88-10
			RG-142, 223, 400, 55	367-1052-ND	2.62	2.38	1.91	CPMC-88-13
			Belden 8218	367-1053-ND	2.62	2.38	1.91	CPMC-88-18
		Crimp-Type, Solder or Crimp Contact, 75Ω	RG-59, 62	367-1045-ND	2.62	2.38	1.91	CPMC-78-2
			Belden 8218, 1855A	367-1046-ND	2.62	2.38	1.91	CPMC-78-18
2	Plug	Twist-On, Field Installable, 50Ω	RG-58	367-1030-ND	1.97	1.80	1.44	CPFI-UG88-1
			RG-59, 62	367-1031-ND	1.96	1.79	1.43	CPFI-UG88-2
			RG-6	367-1034-ND	1.88	1.71	1.37	CPFI-UG88-5
3	Jack	Front-Mnt. Bulkhead Jack with Solder Tab, 50Ω	—	367-1019-ND	3.01	2.74	2.19	CP-1094-AST
4	Jack	Front-Mnt. Bulkhead Jack without Solder Lug, 50Ω	—	367-1020-ND	3.01	2.74	2.19	CP-1094-U
5	Jack	Straight Twist-On Jack, 50 Ohm	RG-59, 62	367-1036-ND	2.53	2.30	1.84	CPFI-UG89-2
6	Jack	Crimp-Type Jack, Push-On Body, 50Ω	RG-59, 62	367-1007-ND	2.07	1.89	1.51	CP-89-2
Type F								
7	Plug	Crimp-Type Plug	RG-6	367-1022-ND	.45	.41	.33	CPF-56-ALM
			RG-6 Quad Shield	367-1023-ND	.50	.46	.37	CPF-56-ALS
			RG-59	367-1025-ND	.45	.41	.33	CPF-59-ALM
8	Plug	Twist-On Plug (no Crimp)	RG-6	367-1027-ND	.47	.43	.35	CPFI-56

Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	50	Emerson Part No.
TNC								
9	Plug	Crimp-Type Plug Solder or Crimp	RG-58, 141	367-1056-ND	2.62	2.38	1.91	CPMC-TNC-1
			RG-142, 223, 400, 55	367-1057-ND	2.62	2.38	1.91	CPMC-TNC-13
			RG-8X (MINI 8)	367-1058-ND	2.62	2.38	1.91	CPMC-TNC-17
Type N								
10	Plug	Crimp-Type Plug	RG-58	367-1059-ND	5.39	4.90	3.92	CPN-1
			RG-142, TFE	367-1060-ND	5.39	4.90	3.92	CPN-142T
			RG-8, 213	367-1061-ND	5.39	4.90	3.92	CPN-8
			RG-8, 213	367-1062-ND	5.39	4.90	3.92	CPN-8/110
			Proflex RG-450	367-1063-ND	5.39	4.90	3.92	CPN-16
			RG-8X (MINI 8)	367-1086-ND	5.39	4.90	3.92	CPN-17
11	Plug	Crimp-Type Plug	RG-8, 213	367-1079-ND	7.88	7.17	5.74	CPN-68-8
			RG-58, Beldon 9907	367-1080-ND	5.96	5.43	4.34	CPN-68-1
12	Jack	Flange Mount Jack	—	367-1081-ND	3.69	3.36	2.69	CP-AD801
UHF								
13	Plug	Solder-Type, Standard	RG-8, 213	367-1010-ND	3.81	3.46	2.77	CP-AD-250
14	Plug	Crimp-Type, Crimp Contact	RG-58	367-1037-ND	3.21	2.92	2.34	CPL-259-1
			RG-59, 62	367-1038-ND	3.21	2.92	2.34	CPL-259-2
			RG-59, TFE	367-1040-ND	1.55	1.41	1.13	CPL-259-10
15	Jack	4-Hole Flange Mount Jack	—	367-1082-ND	1.83	1.67	1.34	CP-AD206
Mini-UHF								
16	Plug	Crimp-Type, Solder or Crimp Contact	RG-58	367-1064-ND	1.70	1.55	1.24	MINI-UHF-1
			RG-8X (MINI 8)	367-1066-ND	1.70	1.55	1.24	MINI-UHF-17

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Emerson Part No.
Adapters						
F In-Series						
17	Jack to Jack Adapter, 3/4" In-line Splice	367-1026-ND	.39	.35	.28	CPF-81
BNC						
18	Jack to Jack Adapter	367-1015-ND	1.54	1.40	1.12	CP-AD-555
19	Bulkhead Jack to Jack Adapter with Lock Washer	367-1016-ND	5.24	4.77	3.82	CP-AD-556M
Between Series						
20	N Plug to SMA Jack	367-1017-ND	6.90	6.28	5.02	29-3840
21	BNC Plug to F Jack	367-1014-ND	2.49	2.26	1.81	CP-AD-516
22	BNC Jack to RCA Plug	367-1012-ND	1.76	1.61	1.29	CP-AD-501
23	BNC 50 Ohm Plug to RCA Jack	367-1013-ND	1.36	1.24	.99	CP-AD-515
Type N						
24	Jack to Jack Adapter	367-1087-ND	4.79	4.36	3.49	CP-AD850
25	Jack to Bulkhead Jack Adapter	367-1088-ND	4.79	4.36	3.49	CP-AD851
26	Plug to Plug Adapter	367-1089-ND	6.57	5.98	4.78	CP-AD800
UHF						
27	Jack to Jack Adapter	367-1083-ND	2.67	2.43	1.94	CP-AD204
28	Jack to Jack to Jack T Adapter	367-1084-ND	9.13	8.30	6.64	CP-AD210
29	Bulkhead Jack to Bulkhead Jack Adapter	367-1090-ND	6.13	5.57	4.46	CP-AD207

Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
11 GHz, MIL-PRF-39012, Connectors								
Type N								
12	Jack	4-Hole Flange Mount Jack, Solder	—	J873-ND	24.70	21.66	18.62	138-4701-607
30	Plug	Straight Crimp	RG-58/U, 141, 303	J841-ND	15.28	13.40	11.52	138-4407-007
			RG-213, 8/U	J842-ND	16.90	14.82	12.74	138-4416-007
			RG-214, 9/U	J843-ND	16.58	14.54	12.50	138-4418-007
			RG-142, 55/U, 223, 400	J844-ND	15.28	13.40	11.52	138-4408-007
			RG-316, 161/U, 174, 188	J845-ND	19.50	17.10	14.70	138-4403-007
			RG-316 DS, 188 DS	J846-ND	20.15	17.67	15.19	138-4404-007
			LMR-400, Belden 9913	J847-ND	16.25	14.25	12.25	138-4449-007
	Plug	Straight Solder	RG-401, .250 Semi-Rigid	J854-ND	16.71	14.65	12.60	138-4696-001
			RG-402, .141 Semi-Rigid	J855-ND	16.45	14.43	12.40	138-4694-001
			RG-405, .086 Semi-Rigid	J856-ND	16.45	14.43	12.40	138-4693-001
			RG-401, .250 Semi-Rigid	J857-ND	16.51	14.48	12.45	138-4696-011
			RG-402, .141 Semi-Rigid	J858-ND	21.78	19.10	16.42	138-4694-011
			RG-405, .086 Semi-Rigid	J859-ND	17.36	15.22	13.09	138-4693-011
31	Plug	Right-Angle Crimp	RG-58/U, 141, 303	J848-ND	25.68	22.52	19.36	138-4407-107
			RG-213, 8/U	J849-ND	21.45	18.81	16.17	138-4416-107
			RG-214, 9/U	J850-ND	21.45	18.81	16.17	138-4418-107
			RG-142, 55/U, 223, 400	J851-ND	25.68	22.52	19.36	138-4408-107
			RG-316, 161/U, 174, 188	J852-ND	24.70	21.66	18.62	138-4403-107
			RG-316 DS, 188 DS	J853-ND	25.35	22.23	19.11	138-4404-107
32	Jack	Straight Crimp	RG-58/U, 141, 303	J860-ND	20.09	17.62	15.15	138-4307-407
			RG-213, 8/U	J861-ND	19.83	17.39	14.95	138-4316-407
			RG-214, 9/U	J862-ND	20.15	17.67	15.19	138-4318-407
			RG-142, 55/U, 223, 400	J863-ND	20.09	17.62	15.15	138-4308-407
			RB-316, 161/U, 174, 188	J864-ND	25.68	22.52	19.36	138-4303-407
			RG-316 DS, 188 DS	J865-ND	25.68	22.52	19.36	138-4304-407
			LMR-400, Belden 9913	J866-ND	20.35	17.85	15.34	138-4349-407
	Jack	Straight Solder	RG-401, .250 Semi-Rigid	J867-ND	22.43	19.67	16.91	138-4596-401
			RG-402, .141 Semi-Rigid	J868-ND	17.88	15.68	13.48	138-4594-401
			RG-405, .086 Semi-Rigid	J869-ND	22.43	19.67	16.91	138-4593-401
33	Jack	Rear Mount Bulkhead Jack	—	J874-ND	24.70	21.66	18.62	138-4701-407

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
18 GHz, MIL-PRF-39012, Adapters						
Type N						
24	Jack to Jack Adapter	J870-ND	33.54	29.42	25.29	138-4901-807
25	Jack to Bulkhead Jack Adapter	J871-ND	38.68	33.92	29.16	138-4901-407
26	Plug to Plug Adapter	J872-ND	41.86	36.71	31.56	138-4901-817

RF Connectors

Fig. 1
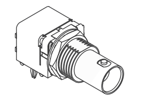

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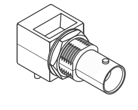

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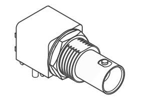

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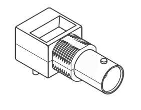

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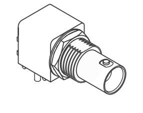

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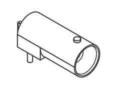

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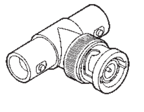

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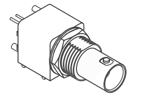

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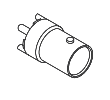

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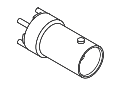

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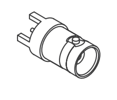

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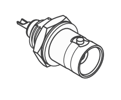

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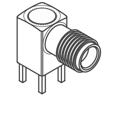

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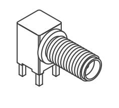

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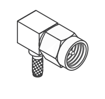

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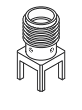

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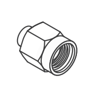

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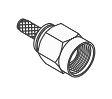

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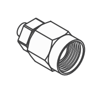

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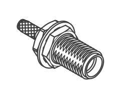

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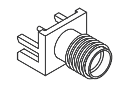

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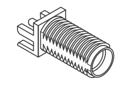

Fig. 23
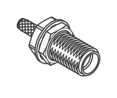

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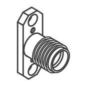

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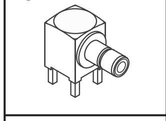

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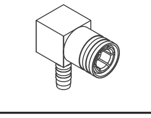

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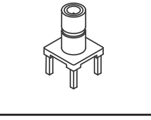

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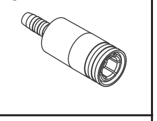

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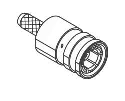

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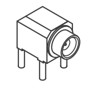

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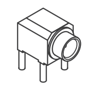

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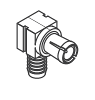

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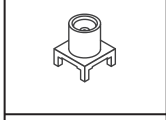

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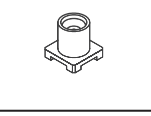

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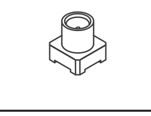

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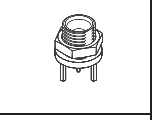

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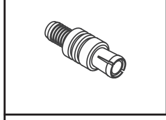

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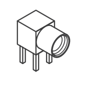

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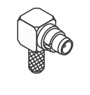

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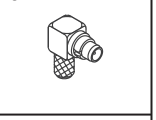

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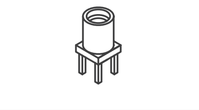

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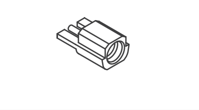

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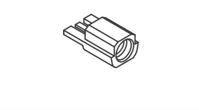

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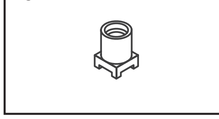

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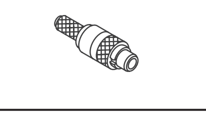

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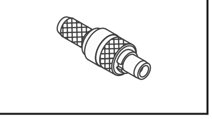

Fig.	Description	Digi-Key Part No.	Price Each			Molex Part No.
			1	25	50	
	BNC Connectors, Right Angle					
1	Jack, 50Ω PCB Mount with hardware Jack, 50Ω PCB Mount	WM5507-ND WM5522-ND	4.08 7.31	3.71 6.65	2.97 5.32	73100-0223 73100-0090
2	Jack, 50Ω PCB Mount Jack, 75Ω PCB Mount	WM5515-ND WM5521-ND	2.53 3.15	2.30 2.87	1.84 2.29	73138-5033 73100-0080
3	Jack, 50Ω PCB Mount Jack, 75Ω PCB Mount, black Jack, 75Ω PCB Mount, white	WM5514-ND WM5518-ND WM5519-ND	2.72 3.30 3.30	2.48 3.01 3.01	1.98 2.41 2.41	73137-5003 73100-0067 73100-0069
4	Jack, 75Ω PCB Mount with Board Locks Jack, 75Ω PCB Mount Jack, 75Ω PCB Mount with Board Locks	WM5508-ND WM5510-ND WM5511-ND	2.60 3.46 2.60	2.37 3.15 2.37	1.90 2.52 1.90	73101-0120 73101-0400 73101-0570
5	Jack, 75Ω PCB Mount	WM5520-ND	3.26	2.97	2.38	73100-0070
6	Jack, 50Ω PCB Mount	WM5524-ND	1.83	1.67	1.33	73100-0105
7	T-Adapter Jack, 50Ω	WM5516-ND	4.59	4.17	3.34	73148-5003
	BNC Connectors, Straight					
8	Jack, 75Ω PCB Mount Jack, 50Ω PCB Mount	WM5512-ND WM5513-ND	4.47 2.57	4.07 2.34	3.26 1.87	73101-0680 73131-5013
9	Jack, 75Ω PCB Mount	WM5517-ND	1.79	1.63	1.31	73171-1900
10	Jack, 75Ω PCB Mount	WM5509-ND	2.45	2.23	1.79	73101-0360
11	Jack, 50Ω PCB Mount	WM5526-ND	4.90	4.46	3.57	73100-0153
12	Jack, Bulkhead 50Ω	WM5527-ND	4.47	4.07	3.26	73100-0195
	SMA Connectors, Right Angle					
13	Jack, 50Ω PCB Mount	WM5525-ND	7.50	6.82	5.46	73100-0114
14	Jack, 50Ω PCB Mount	WM5537-ND	9.02	8.20	6.56	73251-2201
15	Plug, 50Ω for RG174 / RG179 / RG187 / RG188 / RG316 Cable	WM5545-ND	6.53	5.94	4.75	73391-0230
	SMA Connectors, Straight					
16	Jack, 50Ω PCB Mount Jack, 50Ω PCB Mount, with standoffs	WM5543-ND WM5544-ND	3.89 4.74	3.54 4.32	2.83 3.45	73391-0060 73391-0070
17	Plug, 50Ω for RG402 Cable	WM5531-ND	7.46	6.79	5.43	73251-0031
18	Plug, 50Ω for RG316 Cable	WM5532-ND	3.81	3.47	2.77	73251-0450
19	Plug, 50Ω for RG405 Cable	WM5538-ND	8.05	7.32	5.86	73251-2430
20	Jack, Bulkhead 50Ω With heat shrink tube	WM5533-ND	6.02	5.48	4.39	73251-0930
21	Jack, 50Ω Edge Mount	WM5534-ND	4.47	4.07	3.26	73251-1150
22	Jack, 50Ω Edge Mount	WM5536-ND	4.90	4.46	3.57	73251-2120
23	Jack, 50Ω Bulkhead, RG316 / RG174 Cable With hardware	WM5546-ND	4.12	3.75	3.00	73391-0260
24	Jack, Flange Mount 50Ω With heat shrink tube and hardware	WM5535-ND	43.57	39.61	31.69	73251-1850
	SMB Connectors, Right Angle					
25	Jack, 50Ω PCB Mount	WM5523-ND	4.24	3.86	3.09	73100-0103
26	Plug, 50Ω RG174 / RG188 / RG316 Cable	WM5530-ND	8.67	7.88	6.31	73100-0257
	SMB Connectors, Straight					
27	Jack, 50Ω PCB Mount	WM5528-ND	3.07	2.80	2.24	73100-0207
28	Plug, 50Ω RG174 / RG188 / RG316 Cable	WM5529-ND	6.14	5.59	4.47	73100-0248
29	Plug, 50Ω RG174 Cable	WM5547-ND	5.95	5.41	4.33	73404-0710
	MCX Connectors, Right Angle					
30	Jack, 50Ω PCB Mount	WM5540-ND	5.21	4.74	3.79	73366-0030
31	Jack, 75Ω PCB Mount	WM5548-ND	4.51	4.10	3.28	73415-0780
32	Plug, 50Ω RG316 Cable Plug, 75Ω RG179 Cable	WM5539-ND WM5563-ND	4.20 5.01	3.82 4.56	3.06 3.65	73366-0010 73415-5190
	MCX Connectors, Straight					
33	Jack, 50Ω PCB Mount	WM5541-ND	2.41	2.20	1.76	73366-0061
34	Jack, 50Ω Surface Mount	WM5559-ND	2.60	2.37	1.90	73415-1691
35	Jack, 75Ω Surface Mount	WM5558-ND	3.15	2.87	2.29	73415-1631
36	Jack, 50Ω Bulkhead PCB Mount	WM5553-ND	5.56	5.06	4.05	73415-1040
37	Plug, 50Ω RG316 Cable Plug, 75Ω RG179 Cable	WM5542-ND WM5562-ND	3.73 4.00	3.40 3.64	2.72 2.92	73366-0301 73415-4490
	MMCX Connectors, Right Angle					
38	Jack, 50Ω PCB Mount	WM5552-ND	6.37	5.80	4.64	73415-1001
39	Plug, 50Ω RG178 / RG196 Cable Plug, 50Ω SR086 Cable	WM5549-ND WM5561-ND	5.21 4.94	4.74 4.49	3.79 3.59	73415-0951 73415-2161
40	Plug, 50Ω RG316 Cable	WM5554-ND	6.22	5.66	4.53	73415-1121
	MMCX Connectors, Straight					
41	Jack, 50Ω PCB Mount	WM5557-ND	4.55	4.14	3.31	73415-1471
42	Jack, 50Ω Edge Mount	WM5550-ND	2.60	2.37	1.90	73415-0961
43	Jack, 50Ω Edge Mount	WM5556-ND	3.03	2.76	2.21	73415-1261
44	Jack, 50Ω Surface Mount	WM5560-ND	2.72	2.48	1.98	73415-2061
45	Plug, 50Ω RG178 / RG196 Cable	WM5551-ND	3.65	3.33	2.66	73415-0971
46	Plug, 50Ω RG316 Cable	WM5555-ND	4.28	3.89	3.11	73415-1251

HIROSE ELECTRIC CO.,LTD.

Hirose - *A Leading Company of Wireless LAN Connectors*

U.FL SMD Ultra-Miniature Coaxial Connectors and Assemblies

U.FL Series: Industry Standard for Bluetooth and Wireless LAN (World's Smallest and Lightest Coaxial Connectors, meeting frequencies up to 6GHz)

Mating Height

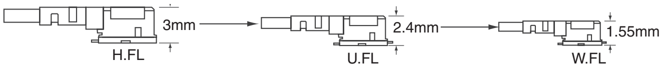

Required Board Space for Receptacle

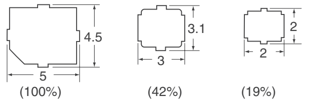

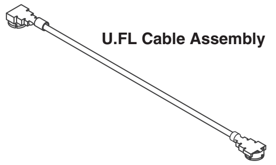

U.FL Cable Assembly

U.FL SMD Receptacle

FEATURES:

- Extremely Small Board Occupation resulting in an area of just $7.7mm^2$
- Mating Height from the printed circuit board when it mates a receptacle with a (right angle) plug is 2.5mm maximum
- These are the world's lightest coaxial connector meeting frequencies up to 6GHz. Receptacle: 15.7mg
- To meet the frequency requirements of a wide variety of miniature equipment, the performance is from DC to 6GHz
- The embossed tape packaging of the receptacles permits automatic mounting
- The extraction tool permits simple removal of the connectors
- Mating checks are made easy with the lock sensation it permits a check of sure mating
- U.FL Frequency: up to 6GHz; mating height: 2.4mm
- W.FL Frequency: up to 3GHz; mating height: 1.55mm

APPLICATIONS:

- Mobile phones
- Wireless communications equipment
- Electronic measuring instruments
- GPS
- Wireless LAN
- Bluetooth

SPECIFICATIONS:

- Nominal Characteristic Impedance: 50Ω
- Rated Voltage: 60VAC (rms)
- Rated Frequency: DC to 6GHz
- Operating Temperature Range: -40°C ~ 90°C
- Operating Humidity: 90% maximum
- Contact Resistance: Center: 20mΩ maximum Outside: 10mΩ maximum
- Insulation Resistance: 500MΩ minimum
- V.S.W.R.: 1.3 maximum

MATERIAL AND FINISH:

- Shell: Phosphor bronze, silver plating
- Center Contact (male): Brass, gold plating; (female): Phosphor bronze, gold plating
- Insulator: Plug: PBT, black, UL94V-0; Receptacle: LCP, beige, UL94V-0

Fig. 1

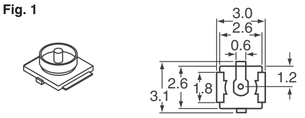

Fig. 2

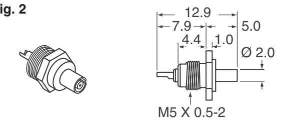

Fig. 3

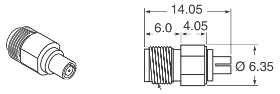

Fig. 4

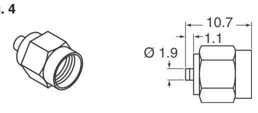

Fig. 5

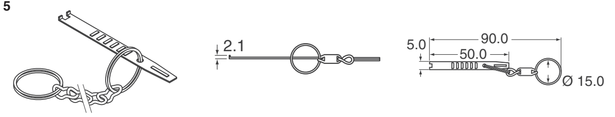

Fig. 6

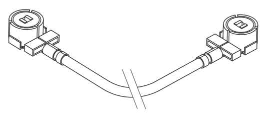

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
1	Receptacle Coaxial SMD	H9161-ND H9161TR-ND	1.44	1.18 1170.00/2,500	.95 2295.00/5,000	.86	U.FL-R-SMT(01) U.FL-R-SMT(10)
2	Inspection Receptacle	H9160-ND	18.15	17.55	16.34	15.73	U.FL-R-1
3	Adapter Side U.FL Plug/SMA Side Jack	H11454-ND	20.55	19.87	18.50	17.81	HRMJ-U.FLP(40)
4	Adapter Side U.FL Jack/SMA Side Plug	H11453-ND	16.95	16.39	15.26	14.69	HRMP-U.FLJ(40)
5	Removal Tool	H9159-ND	17.55	16.97	15.80	15.21	U.FL-LP-N-2
	Removal Tool for Low Profile	HR5017-ND	17.55	16.97	15.80	15.21	U.FL-LP(V)-N-2

Fig.	Cable Type	Cable Diameter (mm)	Cable Length (mm)	Mating Height (mm)	Frequency (GHz)	Shield	Weight (mg)	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
U.FL/U.FL Cable Assemblies — Gray													
6	04	0.81	100	2.4	3	Single	53.7	HR5008-ND	6.58	5.57	4.69	4.18	U.FL-2LP-04N1-A-(100)
			200					H9162-ND	6.89	5.83	4.91	4.38	U.FL-2LP-04N1-A-(200)
			500					H9163-ND	7.80	6.60	5.55	4.95	U.FL-2LP-04N1-A-(500)
			1000					HR5007-ND	8.28	7.20	6.48	5.76	U.FL-2LP-04N1-A-(1000)
	068	1.13	100	2.4	6	Single	53.7	HR5012-ND	6.68	5.66	4.76	4.25	U.FL-2LP-068N1-A-(100)
			200					H9166-ND	7.10	6.01	5.06	4.51	U.FL-2LP-068N1-A(200)
			500					H9167-ND	8.32	7.04	5.92	5.28	U.FL-2LP-068N1-A-(500)
			1000					HR5011-ND	9.18	7.98	7.19	6.39	U.FL-2LP-068N1-A-(1000)
	066	1.32	100	2.4	6	Double	59.1	HR5010-ND	6.68	5.66	4.76	4.25	U.FL-2LP-066J1-A-(100)
			200					H9164-ND	7.12	6.03	5.07	4.53	U.FL-2LP-066J1-A-(200)
			500					H9165-ND	8.40	7.11	5.98	5.33	U.FL-2LP-066J1-A-(500)
			1000					HR5009-ND	9.34	8.12	7.31	6.50	U.FL-2LP-066J1-A-(1000)
	088	1.37	100	2.4	6	Single	71.7	H5022-ND	6.60	5.59	4.70	4.20	U.FL-2LP-088K1T-A-(100)
			200					H5023-ND	6.97	5.90	4.96	4.43	U.FL-2LP-088K1T-A-(200)
			500					H5024-ND	8.03	6.80	5.72	5.10	U.FL-2LP-088K1T-A-(500)
			1000					H5021-ND	8.67	7.54	6.79	6.04	U.FL-2LP-088K1T-A-(1000)
U.FL/U.FL Cable Assemblies — Black													
6	04	0.81	100	2.5	6	Single	53.7	H11542-ND	6.58	5.57	4.69	4.18	U.FL-2LP-04N2-A-(100)
			200					H11543-ND	6.89	5.83	4.91	4.38	U.FL-2LP-04N2-A-(200)
			500					H11544-ND	7.80	6.60	5.55	4.95	U.FL-2LP-04N2-A-(500)
			1000					H11553-ND	8.66	7.33	6.17	5.50	U.FL-2LP-04N2-A-(1000)
	068	1.13	100	2.5	6	Single	53.7	H11545-ND	6.68	5.66	4.76	4.25	U.FL-2LP-068N2-A-(100)
			200					H11547-ND	7.10	6.01	5.06	4.51	U.FL-2LP-068N2-A-(200)
			500					H11548-ND	8.32	7.04	5.92	5.28	U.FL-2LP-068N2-A-(500)
			1000					H11546-ND	9.18	7.98	7.19	6.39	U.FL-2LP-068N2-A-(1000)
	066	1.32	100	2.5	6	Double	59.1	H11555-ND	7.19	5.96	4.96	4.47	U.FL-2LP-066J2-A-(100)
			200					H11557-ND	6.86	5.81	4.89	4.36	U.FL-2LP-066J2-A-(200)
			500					H11558-ND	8.11	6.87	5.78	5.15	U.FL-2LP-066J2-A-(500)
			1000					H11556-ND	9.02	7.84	7.06	6.28	U.FL-2LP-066J2-A-(1000)
	088	1.37	100	2.4	6	Single	71.7	H11549-ND	6.60	5.59	4.70	4.20	U.FL-2LP-088K2T-A-(100)
			200					H11551-ND	6.97	5.90	4.96	4.43	U.FL-2LP-088K2T-A-(200)
			500					H11552-ND	8.03	6.80	5.72	5.10	U.FL-2LP-088K2T-A-(500)
			1000					H11550-ND	8.67	7.54	6.79	6.04	U.FL-2LP-088K2T-A-(1000)
Low Profile U.FL/U.FL Cable Assemblies — Gray													
6	04	0.81	100	2.4	3	Single	34.8	HR5014-ND	6.58	5.57	4.69	4.18	U.FL-2LP(V)-04N1-A-(100)
			200					HR5015-ND	6.89	5.83	4.91	4.38	U.FL-2LP(V)-04N1-A-(200)
			500					HR5016-ND	7.80	6.60	5.55	4.95	U.FL-2LP(V)-04N1-A-(500)
			1000					HR5013-ND	8.74	7.60	6.84	6.08	U.FL-2LP(V)-04N1-A-(1000)
Low Profile U.FL/U.FL Cable Assemblies — Black													
6	04	0.81	100	2.0	6	Single	34.8	H11539-ND	6.58	5.57	4.69	4.18	U.FL-2LP(V)-04N2-A-(100)
			200					H11540-ND	6.89	5.83	4.91	4.38	U.FL-2LP(V)-04N2-A-(200)
			500					H11541-ND	7.80	6.60	5.55	4.95	U.FL-2LP(V)-04N2-A-(500)
			1000					H11554-ND	8.66	7.33	6.17	5.50	U.FL-2LP(V)-04N2-A-(1000)

HIROSE ELECTRIC CO.,LTD.

W.FL Series Connectors — World's Lowest Profile, Ultra Small Coaxial Connectors (1.4mm Stacking Height)

Applications: • Mobile phones • Wireless PDA's • Wireless LAN • Bluetooth communication protocol • Wireless communication equipment • GPS

A

Fig. 1

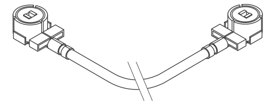

Fig. 2

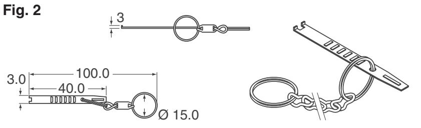

Fig. 3

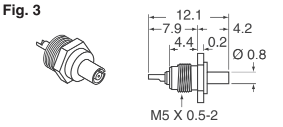

Fig. 4

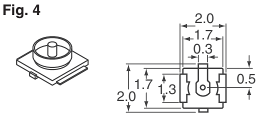

Performance	Standard	Conditions
Characteristic Impedance	50Ω	—
Insulation Resistance	500MΩ or greater	100VDC
Withstanding Voltage	200VAC	1 Minute
Contact Resistance	Inner 20MΩ, Outer 10MΩ or less	100mA or less
V.S.W.R.	1.3 or less	Up to 3GHz

Part	Material	Finish
Outer Conductor	Phosphor Bronze	Silver Plating
Inner Conductor	Phosphor Bronze	Gold Plating
Insulator	PBT, LCP	Black, UL94V-0

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	Ultra Cable Assembly, 35mm	H11561-ND	6.79	5.62	4.68	W.FL-2LPG-062N2D-A-(35)
	Ultra Cable Assembly, 40mm	H11562-ND	6.79	5.62	4.68	W.FL-2LPG-062N2D-A-(40)
	Ultra Cable Assembly, 70mm	H11563-ND	6.90	5.72	4.76	W.FL-2LPG-062N2D-A-(70)
	Ultra Cable Assembly, 100mm	H11560-ND	7.02	5.81	4.84	W.FL-2LPG-062N2D-A-(100)
	Ultra Cable Assembly, 100mm	H9168-ND	7.22	5.98	4.98	W.FL-2LP-04N1-A-(100)
	Ultra Cable Assembly, 1000mm	H9169-ND	9.00	7.62	6.41	W.FL-2LP-04N1-A-(1000)
2	Extraction Tool for W.FL Series	H9171-ND	96.74	—	—	W.FL-LP-N
3	Inspection Receptacle	H9172-ND	24.90	24.07	22.41	W.FL-R-1
4	Ultra Low Coax SMD Receptacle	H9173CT-ND	1.67	1.37	1.10	W.FL-R-SMT-1(10)
	Ultra Low Coax SMD Receptacle	H9173TR-ND	1144.00/2,000			W.FL-R-SMT-1(10)

Miniature RF Connectors

Fig. 1

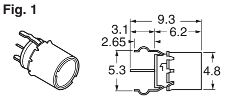

Fig. 2

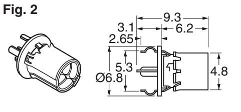

Fig. 3

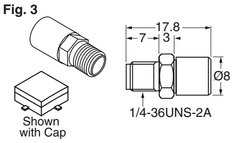

Fig. 4

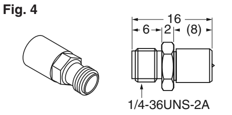

Fig. 5

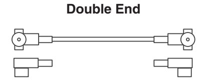

Fig. 6

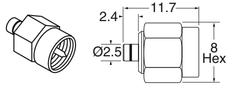

Fig. 7

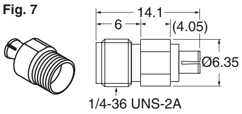

Fig. 8

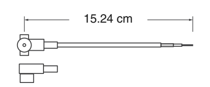

Fig. 9

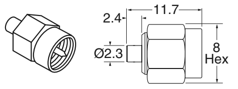

Fig. 10

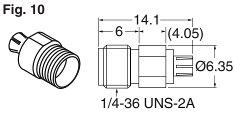

Fig. 11

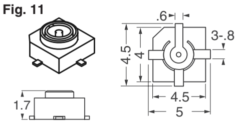

Fig. 12

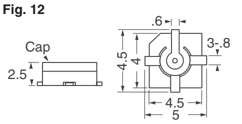

Fig. 13

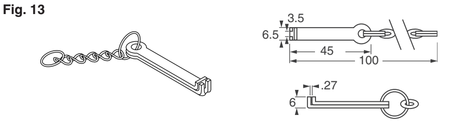

FL (Finger-Lock) Series Coaxial Connectors: Low-profile microminiature high-frequency connectors. The FL Series connectors are low-profile microminiature coaxial connectors intended for high-density packaging of components on printed circuit boards. The FL Series is ideal for high-density circuit board wiring in signal transmission applications at high frequencies up to 1GHz.
Features: • High-level matching: Maximum V.S.W.R. is only 1.2 at frequencies up to 1GHz.
Applications: Typical applications include cellular telephones, radio communications equipment, electronic measuring instruments, CATV, control units, etc.
Material and Finish: • Shell: Brass or phosphor bronze, silver plating • Center contact (male): Brass, gold plating • Center contact (female): Phosphor bronze, gold plating • Insulation: Polybutylene terephthalate (PBT), black.
Performance Characteristics: • Characteristic impedance: 50Ω • Insulation resistance: 1000MΩ or more (at 250VDC) • Contact resistance: 10mΩ or less for both center and outer conductors (at 1 ADC) • Withstanding voltage: 250VAC (rms) for one minute • Coupling/removal force: 300 gf or more • Life of contacts: 50 times of use

S.FL2 Series Coaxial Connectors: S.FL2 (Super FL Type 2 Coaxial Connector) Series is a surface mount, low profile, miniature coaxial connector intended for high density packaging. Compared to Hirose's FL Series connectors, the S.FL2 Series offers a 50% reduced profile when assembled, achieving increased density of internal wiring for high frequency transmission applications.
Features: • Highly flexible, offers high frequency performance below V.S.W.R. 1.2 over 0-2000MHz range.

H.FL Series Coaxial Connectors: The H.FL connectors have a lower profile, with a mounted height of approximately 30% that of our S.FL2 connectors. They occupy 20% less board space, allowing higher density internal wiring.
Features: • High frequency response of V.S.W.R. 1.3 or less from D.C. to 3000MHz.
Material and Treatment: • Shell: Phosphor bronze, silver plating • Insulator: PBT plastic (plug side), black; Liquid crystal polymer (receptacle side), black • Male center contact: Bronze, gold plating • Female center contact: Phosphor bronze, gold plating.
Performance Characteristics: • Characteristic impedance: 50Ω and 75Ω • Insulation resistance: 500MΩ or greater at DC 250V • Contact resistance: 20mΩ (center), 10mΩ (exterior) at DC 10mA • Dielectric strength: AC 300V (r.m.s.), 1 minute • Contact service life: 50 times • Voltage standing wave ratio: 1.3 or less, DC to 3000MHz (target value)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
	FL Series					
1	Receptacle PC MT	H9142-ND	3.15	2.62	1.94	FL-R-PC(1)
2	Receptacle with Washer	H9143-ND	4.50	3.72	2.79	FL-R-PC(3)
3	Adapter Plug/SMA Plug	H11447-ND	57.40	54.53	51.25	HRMJ-FLJ(40)
4	Adapter Receptacle/SMA Plug	H11448-ND	37.24	35.38	33.25	HRMJ-FLP-1(40)
5	6" (15.24cm) FL/FL Cable Assembly	229-1000-ND	40.80	38.25	35.07	4189-06
5	12" (30.48cm) FL/FL Cable Assembly	229-1001-ND	43.10	40.41	37.05	4189-12
5	12" (30.48cm) FL/SMA Cable Assembly	229-1002-ND	43.10	40.41	37.05	4192-12
	S.FL2 Series					
6	Adapter Jack/SMA Plug	H11451-ND	15.04	13.92	11.66	HRMP-S.FLJ(40)
7	Adapter Plug/SMA Jack	H11452-ND	37.35	36.11	32.37	HRMJ-S.FLP(40)
5	6" (15.24cm) S.FL2/S.FL2 Cable Assembly	229-1008-ND	26.91	25.23	23.13	2189-06
5	12" (30.48cm) S.FL2/S.FL2 Cable Assembly	229-1009-ND	21.28	19.95	18.29	2189-12
5	12" (30.48cm) S.FL2/SMA Cable Assembly	229-1010-ND	39.71	37.23	34.13	2192-12
8	6" (15.24cm) S.FL2 Single End Cable Assembly	229-1011-ND	26.66	24.99	22.91	2191-6
	H.FL Series					
9	Adapter Jack/SMA Plug	H11450-ND	21.60	20.88	18.72	HRMP-H.FLJ(40)
10	Adapter Plug/SMA Jack	H11449-ND	25.05	24.22	21.71	HRMJ-H.FLP-3(40)
11	Receptacle Coaxial SMT	H9147-ND	1.72	1.44	1.06	H.FL-R-SMT(01)
12	Receptacle Coaxial with Cap SMT	H9148CT-ND	1.79	1.49	1.10	H.FL-R-SMT(C)(10)
12	Receptacle Coaxial with Cap SMT	H9148TR-ND	1752.50/2,500			H.FL-R-SMT(C)(10)
13	Removal Tool (H.FL Series)	H9151-ND	52.64	—	—	H.FL-LP-N
5	3.94" (10cm) H.FL/H.FL Cable Assembly	H5018-ND	10.11	8.56	6.42	H.FL75-2LP-084H-A-100
5	19.69" (50cm) H.FL/H.FL Cable Assembly	H5020-ND	9.25	8.04	6.44	H.FL75-2LP-084H-A-500
5	39.37" (100cm) H.FL/H.FL Cable Assembly	H5019-ND	13.96	12.92	10.82	H.FL75-2LP-084H-A-1000
5	6" (15.24cm) H.FL/H.FL Cable Assembly	229-1004-ND	13.28	12.45	11.42	1189-06
5	12" (30.48cm) H.FL/H.FL Cable Assembly	229-1005-ND	15.20	14.25	13.07	1189-12
5	12" (30.48cm) H.FL/SMA Cable Assembly	229-1006-ND	29.12	27.30	25.03	1192-12
8	6" (15.24cm) H.FL Single End Cable Assembly	229-1007-ND	13.28	12.45	11.42	1191-06

Coaxial Switching Connector MS-147 Series

The switching function is accomplished by mating with the corresponding plug. The transmission is redirected from normal direction to the plug assembly. The surface mounted receptacle protrudes above the board 3.9mm. The MS147 has an insertion loss of 0.15dB **Characteristics:** Impedance of 50Ω, isolation of 25dB minimum (DC-2.0GHz) and 20dB (2.0GHz to 2.5GHz). Self-aligning within 0.5mm and with a guaranteed durability of 12,000 mating/unmating cycles **Applications:** Most mobile phones and circuit testing applications

Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
Interface Coaxial Switching Receptacle	H2800CT-ND	1.82	1.40	1.12	MS-147(06)
Interface Coaxial Switching Receptacle	H2800TR-ND	1117.50/1,500			MS-147(06)
Mating Adapter	H2801-ND	18.30	17.08	15.86	MS-147-HRMJ-1
Right Angle Plug	H2802-ND*	16.05	14.98	13.91	MS-147-C(LP)-1

* Application cable for plug: 1.5D-HQEW (manufactured by Fujikura Ltd.)

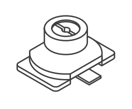

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Coaxial Switching Connector

MS-145 Series

Fig. 1

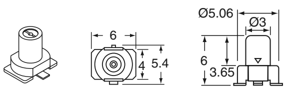

Fig. 2

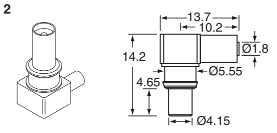

Fig. 3

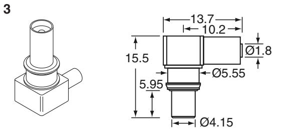

Fig. 4

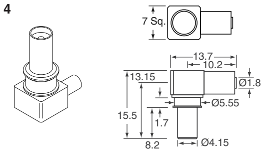

Fig. 5

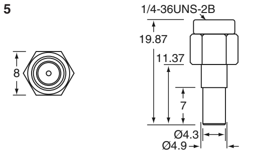

Fig. 6

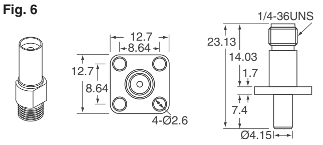

Fig. 7

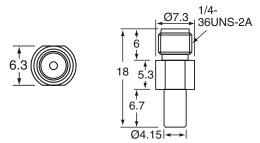

Plug Applications

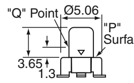

Features: Designed as interface coaxial switches, and other applications requiring redirecting of signals when mating with corresponding plugs. The mating action redirects the signals from the receptacle side to the plug side.

Specifications: • **Frequency Range:** From DC to 2.5GHz and with GSM, PCS, cdma-One, W-CDMA, etc. • **Low Profile:** Low protrusion of only 6mm above the mounting surface (receptacle). • **Durability:** High durability (mating/unmating) of 10,000 cycles. Self alignment of mating parts. Inducement to floating is +/-0.5mm. • Engages by pushing up to the 5.06mm diameter shoulder (P surface) of the MS-145 (MS-145-C(LP)-1 engages up to a position (Q point) of 1.3mm from the 5.06mm diameter shoulder of the MS-145).

Applications: • Mobile phone antenna switching • Checks of microwave boards, etc.

Fig.	Description	Effect. Engage. Length (mm)	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	Interface Coaxial Switch Receptacle	—	H11441CT-ND‡	1.81	1.40	1.12	MS-145NB
			H11441TR-ND†		742.00/1,000		MS-145NB
2	Plug	0.82	H2804-ND*	15.81	14.47	13.02	MS-145-C(LP)-1
3	Plug	1.32	H2805-ND*	15.75	14.70	13.65	MS-145-C(LP)-A
4	Plug	1.32	H2806-ND*	16.15	14.78	13.30	MS-145-C(LP)-MI
5	SMA Adaptor to Male	1.32	H2807-ND	18.15	16.94	15.73	MS-145-HRMP-A
6	SMA Adaptor to Female, Panel Mount	0.82	H2808-ND	25.05	23.38	21.71	MS-145-HRMJ
7	SMA Adaptor to Female, Straight	1.32	H2809-ND	18.15	16.94	15.73	MS-145-HRMJ-A-D

* Applicable cable for plugs: 1.5D-HQEW or 1.5D-QEW (manufactured by Fujikura Ltd.) ‡ Cut Tape † Tape and Reel

Miniature Interface Coaxial Switch MS-162 Series

Features: Designed to be used as the interface antenna connection for portable terminal devices as well as circuit testing on microwave boards (DC to 10 GHz) the coaxial switch offers high performance, low loss, extremely high durability and reliability, in a small and lightweight package.

Specifications: • Operating Temperature Range: -40°C ~ 85°C • Rated Power: 4W • Frequency Range: DC to 10GHz • Contact Resistance: 100mΩ max. @ 100mA • Insulation Resistance: 1000MΩ min. @ 100VDC • Withstanding Voltage: No flashover or insulation breakdown @ 100VAC/ 1 minute

Material Specifications: • Shell: Brass; Gold Plated • Insulators: Polyamide; UL94V-0 • Common Terminal: Beryllium Copper; partially gold plated (Nickel barrier) • Antenna Terminal: Phosphor Bronze; partially gold plated (Nickel barrier)

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	Receptacle	H11415-ND	3.09	2.38	1.90	MS-162(01)
	Receptacle	H11415TR-ND†		1650.00/3,000		MS-162
	Receptacle	H11568-ND ***NEW!***	1.92	1.48	1.18	MS-162A(01)
	Receptacle	H11568TR-ND† ***NEW!***		858.00/3,000		MS-162A
2	Plug	H11416-ND	17.70	16.52	15.34	MS-162-C(LP)-1
3	SMA Conversion Adapter	H11417-ND	17.34	15.87	14.28	MS-162-HRMJ-1
4	Cable Assembly MS-162 Plug-SMA Jack	H11569-ND ***NEW!***	46.34	43.03	41.38	MS162L1-HRMJ-15W350
5	Cable Assembly MS-162 Plug-SMA Plug	H11570-ND ***NEW!***	60.62	56.29	54.13	MS162L1-HRMP-15W350

† Tape and Reel

Fig. 1

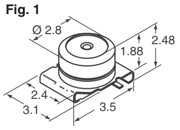

Fig. 2

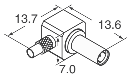

Fig. 3

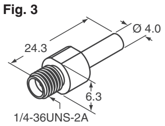

Fig. 4 ***NEW!***

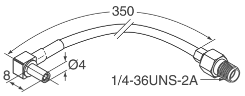

Fig. 5 ***NEW!***

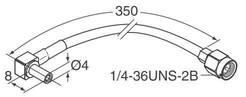

Interface RF Connector with Switch MS-151C Series

Features: • Designed for end user applications requiring re-direction of the transmission • Small size, lightweight and high reliability make it ideal for use in wireless applications requiring bandwidth of up to 6GHz • Built-in interlock feature confirms fully mated condition with a "click" sensation • The connector can be mated in any position on a 360° axis and can rotate within the same when in use

Specifications: • Operating Temperature Range: -40°C ~ 85°C • Rated Power: 4W • Frequency Range: DC to 6GHz • Contact Resistance: 50mΩ max. @ 100mA • Insulation Resistance: 1000MΩ min. @ 100VDC • Withstanding Voltage: No flashover or insulation breakdown @ 100VAC/ 1 minute

Material Specifications: ***Receptacle:*** • Insulators: Polyamide; UL94V-0 • Locking Mating Section: Stainless Steel; Gold plated • Outer Conductor: Phosphor bronze; Gold plated ***Plug:*** • Ring: Stainless Steel; Nickel plated • Outer Conductor: Phosphor bronze; Nickel plated • Inner Contact: Phosphor Bronze; Gold plated • Insulator: PTFE • Ferrule: Phosphor bronze • Bushing: TPEE-M

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	Right Angle SMD Receptacle	H11411CT-ND‡	5.28	4.10	3.28	MS-151C
1	Right Angle SMD Receptacle	H11411TR-ND†		1936.80/800		MS-151C
2	Cable Mount Plug	H11412-ND	16.95	15.82	14.69	MS-151-C(BP)
3	SMA Conversion Adapter for Receptacle MS-151C	H11413-ND	110.74	102.83	98.88	MS151P-HRMJ-1
4	SMA Conversion Adapter for Plug MS-151C(BP)	H11414-ND	81.76	75.92	73.00	MS151J-HRMJ

‡ Cut Tape † Tape and Reel

Fig. 1

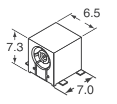

Fig. 2

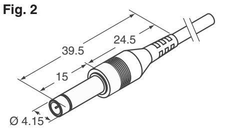

Fig. 3

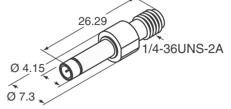

Fig. 4

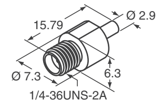

HV Coaxial Connector Plug Termination and HV Connector Attenuators

HV-TM and HV-AT Series

Applications: • Optical transmission devices • Network analyzers • BERTS (Bit Error Ratio Testing Systems) • FWA (Fixed Wireless Access) • Measurement applications requiring transmission frequencies of up to 65GHz

Specifications: • Operating Temperature Range: -10°C ~ 65°C • Rated Power: *HV-TM Series:* 0.5W @ 65°C; *HV-AT Series:* 1W @ 65°C • Frequency Range: DC to 65GHz • Characteristic Impedance: 50Ω

Material Specifications: • Shell: Stainless Steel; Passivated • Insulator: PTFE (Polytetrafluoroethylene) • Male Contact: Brass; Gold plated • Female Contact: HV-AT Series only: Beryllium Copper; Gold plated • Coupling: Stainless Steel; Passivated • Attenuation Element: Metal Film

Fig.	Description	Digi-Key Part No.	Price Each	Hirose Part No.
1	"V" Type Plug Terminator	H11418-ND	1326.00	HV-TMP-(40)
2	0 dB Fixed Attenuator	H11419-ND	702.00	HV-AT(0)-PJ
	3 dB Fixed Attenuator	H11420-ND	702.00	HV-AT(3)-PJ
	6 dB Fixed Attenuator	H11421-ND	702.00	HV-AT(6)-PJ
	10 dB Fixed Attenuator	H11422-ND	702.00	HV-AT(10)-PJ
	20 dB Fixed Attenuator	H11423-ND	702.00	HV-AT(20)-PJ

Fig. 1

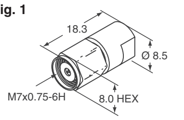

Fig. 2

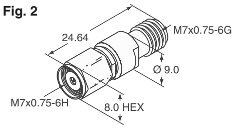

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO.,LTD.

Subminiature Coaxial Switch Connector MS-156 Series

Fig. 1

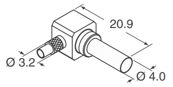

Fig. 2

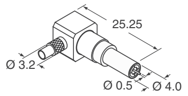

Fig. 3

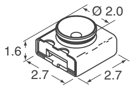

Fig. 4

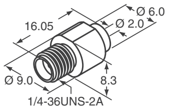

Fig. 5

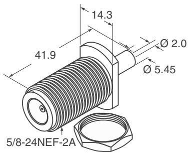

Fig. 6

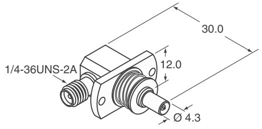

Fig. 7

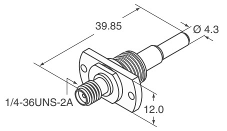

Fig. 8

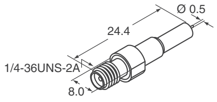

Features:
• Developed for inspection of high frequency circuits used in portable terminals • Verification of the circuit performance is accomplished by simply inserting the external plug in the board mounted receptacle

Specifications:
• Operating Temperature Range: -40°C ~ 85°C • Rated Power: 2W • Frequency Range: DC to 6GHz • Contact Resistance: 100mΩ maximum @ 100mA maximum • Insulation Resistance: 1000MΩ @ 100VDC • Withstanding Voltage: No flashover or insulation breakdown @ 100VAC/ 1 minute

Material Specifications:
• Shell: Phosphor Bronze; Gold plating • Insulator: 9T Nylon; UL94V0 • Common Terminal: Beryllium Copper; Partially gold plating (Nickel barrier) • Antenna Terminal: Phosphor Bronze; Partially gold plating (Nickel barrier)

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing	Hirose Part No.
1	Press Down Type Plug	H11378-ND	51.38	47.71	45.88	—	—	MS-156-C(LP)-1
2	Simplified Lock Type Plug	H11379-ND	37.52	34.84	33.50	—	—	MS-156-C(LP)-2
2	Plug	H11380-ND	59.78	55.51	53.38	—	—	MS-156-C(LP)-5
3	Receptacle without vacuum cap	—	—	—	—	H11381TR-ND	884.00/2,000	MS-156NB
3	Receptacle without vacuum cap	H11382-ND	2.05	1.58	1.26	—	—	MS-156NB(01)
3	Receptacle with vacuum cap	H11383CT-ND†	1.90	1.47	1.17	H11383TR-ND	1167.00/1,500	MS-156NB(02)
3	Receptacle	H11384CT-ND†	1.22	.88	.72	H11384TR-ND	832.00/2,000	MS-156NBS
4	SMA Adapter for Plug Inspection	H11385-ND	109.62	101.79	97.88	—	—	MS-156R-HRMJ-1
5	SMA Adapter for Plug Inspection	H11386-ND	92.12	85.54	82.25	—	—	MS-156R-NJ-1
6	SMA Adapter Right Angle	H11396-ND	118.58	110.11	105.88	—	—	MS-156LP-HRMJ-4
7	SMA Floating Type Adapter	H11397-ND	89.18	82.81	79.63	—	—	MS-156-HRMJ-12
8	SMA Simplified Lock Type Adapter	H11398-ND	27.30	25.48	23.66	—	—	MS-156-HRMJ-2

† Cut Tape

Ultra Miniature Snap-On Coaxial Connector PC Card Type II Mountable MMCX Type

Features:
Snap-on coupling mechanism makes it easy to engage and disengage. Low profile accommodates PCMCIA type II cards. The MMCX-LR-SMT is only 3.51mm when mounted on the bottom of a type II card. Designed for ultra thin cable such as RG-178B/U (ø1.8), RG-316/U (ø2.59 max.) ø1.48 single shielded cable (one of the smallest available) and CO-6F-FH-SB (ø1.48) made by Hitachi Cable Ltd. Compatible with all industry standard MMCX connectors.

Specifications: • Nominal Characteristic Impedance: 50Ω • Operating Temperature Range: -55°C ~ 85°C • Rated Frequency: DC-6GHz • Insulation Resistance: 500MΩ minimum • Contact Resistance: 10mΩ maximum (center), 5mΩ maximum (outer)
Material: • Body: Brass with gold plating • Male center contact: Phosphor bronze with gold plating • Female Center Contact: Beryllium bronze with gold plating • Insulator: PTFE • Fixing Ring: Beryllium copper (plug) with nickel plating • Crimp Sleeve: Copper with gold plating • Cover: Brass (plug) with gold plating

Fig.	Cable Type	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
		Right Angle Plug — RoHS Compliant				
1	RG-316/U Type Coaxial Cable	H11469-ND	10.56	9.77	8.19	MMCX-LP-316/U(40)
		Straight Jack				
2	CO-6F-FH-SB (1.48) Single Shielded	H3225-ND	9.89	8.60	6.88	MMCX-J-FHSB

Fig. 1

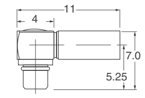

Fig. 2

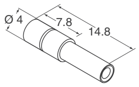

NEW! SMA Coaxial Connectors HRM(V) Series

Features: Complete compatibility with SMA coaxial connectors, high degree of impedance matching and high durability **Specifications:** • Nominal Characteristic Impedance: 50Ω • Operating Temperature Range: -55°C ~ 85°C • Frequency Range: DC~18GHz • Insulation Resistance: 5000MΩ minimum @ 500VDC • Withstanding Voltage: No flashover or insulation breakdown @ 1,000 VAC/1 minute • Contact Resistance: 6mΩ maximum (center), 6mΩ maximum (outer) @ 100mA maximum • V.S.W.R.: 1.2 maximum for frequencies of DC~10GHz; 1.3 maximum for frequencies of 10~18 GHz • Durability: 500 cycles **Material:** • Shell: Stainless steel; passivated • Female center contact: Beryllium copper; gold plated • Center contact: Brass; gold plated • Insulator: PTFE

Fig.	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	H11565-ND	4.79	3.72	2.97	HRM(V)-301S
2	H11566-ND	4.79	3.72	2.97	HRM(V)-302S
3	H11567-ND	4.99	3.87	3.10	HRM(V)-304S
4	H11564-ND	4.79	3.72	2.97	HRM(V)-306S

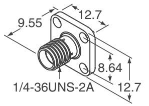

Fig. 1

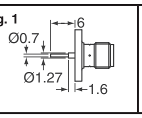

Fig. 2

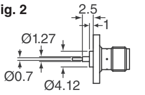

Fig. 3

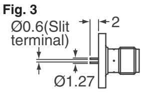

Fig. 4

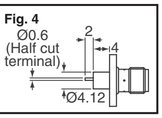

muRata
Innovator in Electronics

NEW! Microwave Coaxial Connectors with Switch

SWD and SWF Type — Small Size and Low Profile

Features: • These small size, low profile coaxial connectors are very useful for characteristic measurement of cellular phones and microwave units • Easily possible to switch the line connection and disconnection by special probe • Surface mountable and reflow solderable
Specifications: • Operating Temperature Range: -40°C~85°C (MM8430-2600RA1: -40°C~90°C) • Rated Voltage: 250 Vrms • Frequency Range: DC to 6GHz • Contact Resistance: MM8430-2600RA1: 25mΩ maximum; MM8430-2610RA1: 50mΩ maximum; MM8130-2600RA2: 70mΩ maximum • Insulation Resistance: 500MΩ • Withstanding Voltage: MM8430-2600RA1: No evidence of breakdown; MM8430-2610RA1 and MM8130-2600RA2: 300VAC

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Murata Part No.
1	SWD Type	490-1062-1-ND†	.54	.42	.34	MM8430-2600RA1
		490-1062-2-ND‡		299.00/1,000		MM8430-2600RA1
		490-4980-1-ND†	.51	.39	.32	MM8430-2610RA1
		490-4980-2-ND‡		280.00/1,000		MM8430-2610RA1
	SWD Series Kit	490-5057-ND	46.25	—	—	M1KMM8430-SWD01
2	SWF Type	490-4981-1-ND†	.50	.39	.31	MM8130-2600RA2
		490-4981-2-ND‡		554.00/2,000		MM8130-2600RA2
	SWF Series Kit	490-5056-ND	46.25	—	—	M1KMM8130-SWF01
3	Manual Test Probe	490-4982-ND	32.10	29.81	28.66	MXHS83QE3000
4	Auto Test Probe	490-4983-ND	80.03	74.32	71.46	MM126036

† Cut Tape ‡ Tape and Reel

Fig. 1

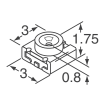

Fig. 2

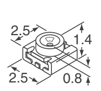

Fig. 3

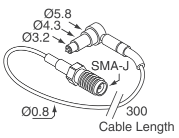

Fig. 4

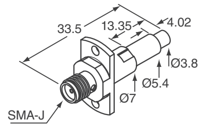

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE ELECTRONICS CORP.

Standardized Phono-Plugs

Fig. 1

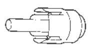

Fig. 2

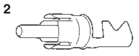

Fig. 3

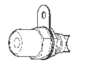

Fig. 4

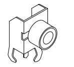

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100
1	Conventional Type	561K-ND	.74	6.46	53.10
2	Strain Relief Lug Crimps to Wire Insulation	565K-ND	.99	8.68	67.70
3	Panel Mount Jack Hex Base Type	576K-ND	1.72	15.08	129.10
4	Snap-Fit 90° PC Phono Jack	901K-ND	1.35	12.51	110.65

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel**®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key**® Services on page 2 for additional information.

Switchcraft®

Audio Connectors and Couplers

Fig. 1

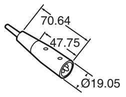

Fig. 2

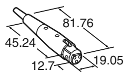

Fig. 3

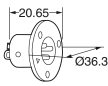

Fig. 4

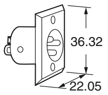

Fig. 5

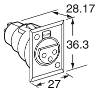

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Mfg. Part No.
1	Plug Male Straight 3 pos. Satin Nickel Finish	SC1003-ND	5.68	4.26	3.91	A3M
	Plug Male Straight 3 pos. Black with Silver Contacts	SC1004-ND†	5.68	4.26	3.91	A3MB
	Plug Male Straight 4 pos. Satin Nickel Finish	SC1014-ND	6.48	4.86	4.46	A4M
	Plug Male Straight 5 pos. Satin Nickel Finish	SC1022-ND	11.32	8.49	7.78	A5M
2	Plug Female Straight 3 pos. Satin Nickel Finish	SC1001-ND	6.32	4.74	4.35	A3F
	Plug Female Straight 3 pos. Black with Silver Contacts	SC239-ND†	6.68	5.01	4.59	A3FBX
	Plug Female Straight 4 pos. Satin Nickel Finish	SC1013-ND	8.80	6.60	6.05	A4F
	Plug Female Straight 5 pos. Satin Nickel Finish	SC1021-ND	14.20	10.65	9.76	A5F
3	Receptacle Male Panel Mount 3 pos. Satin Nickel Finish	SC1008-ND	7.40	5.55	5.09	C3M
4	Receptacle Male Narrow Panel Mount 3 pos. Satin Nickel Finish	SC1010-ND	5.32	3.99	3.66	D3M
	Receptacle Male Narrow Panel Mount 4 pos. Satin Nickel Finish	SC1020-ND	6.28	4.71	4.32	D4M
	Receptacle Male Narrow Panel Mount 5 pos. Satin Nickel Finish	SC1028-ND	11.04	8.28	7.59	D5M
5	Receptacle Female Narrow Panel Mount 3 pos. Satin Nickel Finish	SC1009-ND	7.12	5.34	4.90	D3F
	Receptacle Female Narrow Panel Mount 4 pos. Satin Nickel Finish	SC1019-ND	10.04	7.53	6.90	D4F
	Receptacle Female Narrow Panel Mount 5 pos. Satin Nickel Finish	SC1027-ND	16.12	12.09	11.08	D5F

† "Black Velvet" (Electrically Conductive Chrome Plate)

1/4” (6.35mm) Plugs, Jacks and Audio Adapters

Fig. 1

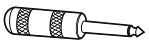

Fig. 2

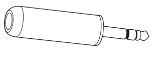

Fig. 3

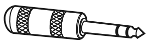

Dimensions for Figures 1-3

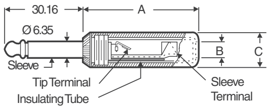

Fig. 4

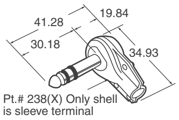

Fig. 5

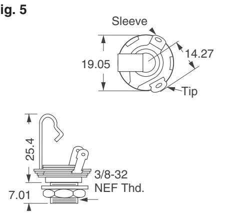

Fig. 6

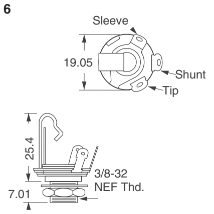

Fig. 7

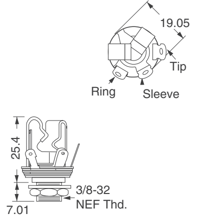

Fig. 8

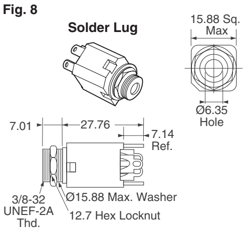

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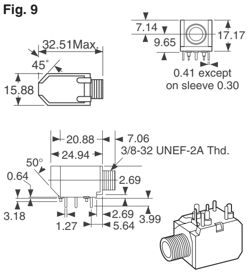

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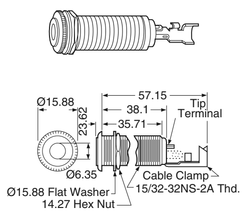

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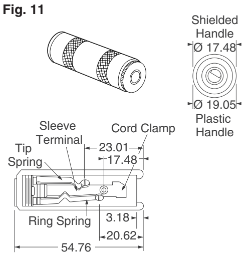

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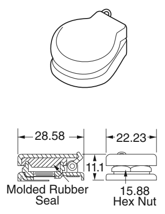

Schematics for Figures 5-10

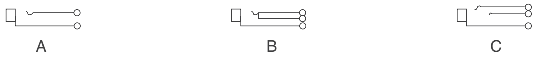

Fig.	Description	Mates With	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	25	Mfg. Part No.
	“Littel Plug®” Commercial 2-Conductor Phone Plugs									
1	Solder Lug and Cable Clamp with Black Handle	11	42.86	7.54	12.70	SC1072-ND	4.00	30.00	68.75	250
	Solder Lug and Cable Clamp with Shielded Handle	11	42.86	7.54	12.70	SC1075-ND	4.92	36.90	84.50	280
	“Littel Plug” Commercial 3-Conductor Phone Plugs									
2	Solder Lug and Cable Clamp with Black Handle	12B	42.86	7.54	12.70	SC1081-ND	5.76	43.20	99.00	267
3	Solder Lug and Cable Clamp with Shielded Handle	12B	42.86	7.54	12.70	SC1084-ND	6.60	49.50	113.50	297
	Flat, Right Angle 2-Conductor Phone Plugs									
4	Solder Lug with Shielded Handle	11	—	—	—	SC1068-ND	5.64	42.30	97.00	228
	Flat, Right Angle 3-Conductor Phone Plugs									
4	Solder Lug with Shielded Handle	12B	—	—	—	SC1314-ND	7.28	54.60	125.25	238X

Fig.	Schematic	Description	Digi-Key Part No.	Pricing 1	10	25	Mfg. Part No.
		“Littel Jax®” Commercial 2-Conductor Phone Jacks					
5	A	Open Circuit	SC1085-ND	2.52	18.90	43.25	11
6	B	Tip Shunt	SC1089-ND	2.52	18.90	43.25	12A
		“Littel Jax” Commercial 3-Conductor Phone Jacks					
7	C	Double Open Circuit	SC1094-ND	2.60	19.50	44.75	12B
		“Hi-D Jax” Enclosed 2-Conductor Phone Jacks					
8	A	Insulated Bushing with Solder Lug	SC1315-ND	2.88	21.60	49.50	N111X
	B	Single Closed Circuit with Solder Lug	SC1316-ND	2.52	18.90	43.25	112AX
		“Hi-D Jax” Enclosed 3-Conductor Phone Jacks					
8	C	Double Open Circuit with Solder Lug	SC1317-ND	2.56	19.20	44.00	112BX
		“Hi-D Jax” Right Angle 2-Conductor Phone Jacks					
9	A	Single Open Circuit with PC Terminal	SC1121-ND	2.28	17.10	39.25	RN111PC
	B	Single Closed Circuit with PC Terminal	SC1122-ND	2.60	19.50	44.75	RN112APC
		“Hi-D Jax” Right Angle 3-Conductor Phone Jacks					
9	C	Double Open Circuit with PC Terminal	SC1123-ND	2.80	21.00	48.25	RN112BPC
		“TP-Jax” Thick-Panel 2-Conductor Phone Jacks					
10	A	Open Circuit	SC1034-ND	8.04	60.30	138.25	151
		“TP-Jax” Thick-Panel 3-Conductor Phone Jacks					
10	C	Open Circuit	SC1035-ND	8.84	66.30	152.00	152B
		“Extension-Jax” In-Line 3-Conductor Cable Extension Jacks					
11	—	Screw Terminal with Shielded Handle	SC1042-ND	10.76	80.70	185.00	1230
		Jack Covers					
12	—	Black with Hardware	SC1329-ND	10.04	75.30	172.50	515X

Switchcraft® Phone, Power and Phono Plugs and Jacks

Dimensions in mm

Fig. 1

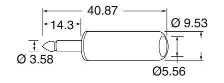

3.58mm Plug

Fig. 2

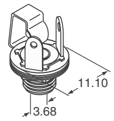

Fig. 3

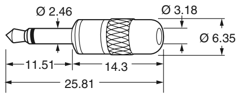

2.46mm Plug

Fig. 4

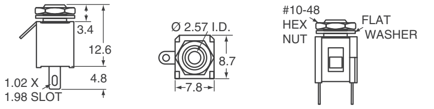

Fig. 5

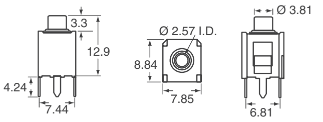

Fig. 6

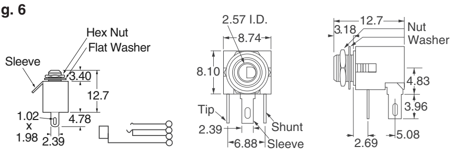

Fig. 7

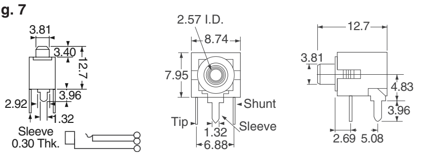

Fig. 8

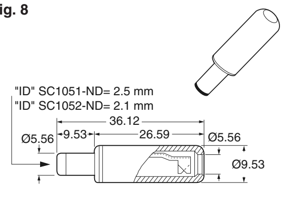

Fig. 9

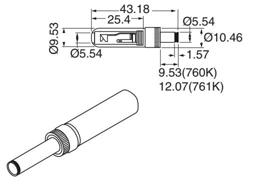

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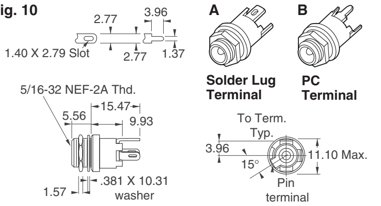

Fig. 11

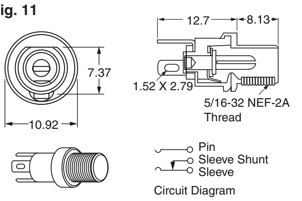

Fig. 12

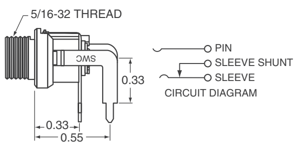

Fig. 13

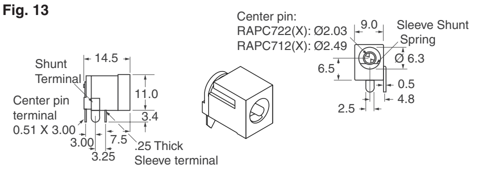

Fig. 14

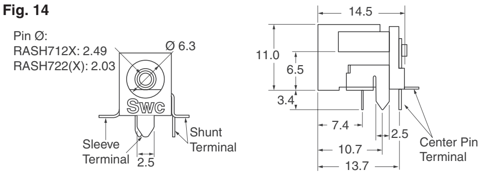

Fig. 15

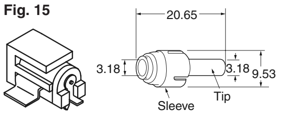

Fig. 16

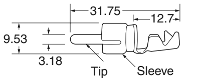

Fig. 17

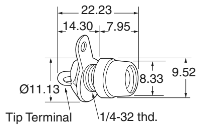

Fig. 18

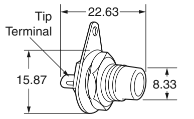

Fig. 19

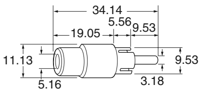

Fig. 20

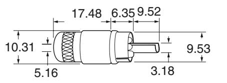

Fig. 21

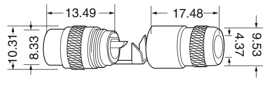

Fig.	Mates With	Description	Digi-Key Part No.	Price Each 1	10	25	Switchcraft Part No.
		"Tini-Plug®" Miniature 2-Conductor Phone Plugs — RoHS Compliant					
1	41	.141" (3.58mm) Screw Terminal with Black Handle	SC1053-ND	4.04	3.03	2.78	740
	41	.141" (3.58mm) Solder Lug and Cable Clamp with Black Handle	SC1055-ND	3.88	2.91	2.67	750
	41	.141" (3.58mm) Solder Lug and Cable Clamp with Shielded Handle	SC1057-ND	5.28	3.96	3.63	780
		"Tini-Jax®" Miniature 2-Conductor Phone Jacks — RoHS Compliant					
2	750	.141" (3.58mm) Open Circuit	SC238-ND	2.39	1.80	1.65	41
		"Micro-Plug®" Subminiature 2-Conductor Phone Plugs — RoHS Compliant					
3	Fig. 6 & 7	.097" (2.46mm) Solder Lug with Black Handle	SC1326-ND	4.24	3.18	2.92	850X
		.097" (2.46mm) Solder Lug with Red Handle	SC1327-ND	4.16	3.12	2.86	855X
		.097" (2.46mm) Solder Lug with Natural Handle	SC1328-ND	4.24	3.18	2.92	880X
		"Micro-D-Jax®" Subminiature 2-Conductor Phone Jacks — RoHS Compliant					
4	850	.101" (2.57mm) Closed Circuit Solder Lug	SC1043-ND	2.64	1.98	1.82	MDSL2A
5	850	.101" (2.57mm) Closed Circuit PC Terminal	SC1044-ND	2.64	1.98	1.82	MDPC2A
6	850	.101" (2.57mm) Right Angle Solder Lug	SC1045-ND	2.92	2.19	2.01	MDSL2ARA
7	850	.101" (2.57mm) Right Angle PC Terminal	SC1046-ND	2.92	2.19	2.01	MDPC2ARA
		Miniature 2-Conductor Power Plugs — RoHS Compliant					
8	712A	.1" (2.54mm) with Black Handle	SC1051-ND	3.44	2.58	2.37	760
	722A	.08" (2.03mm) with Black Handle	SC1052-ND	3.44	2.58	2.37	S760
9	L712A	.1" (2.54mm) Locking, Long Bushing with Black Handle	SC1148-ND	5.00	3.75	3.44	761K
	L722A	.08" (2.03mm) Locking, Long Bushing with Black Handle	SC240-ND	5.00	3.75	3.44	S761K
	712A	.1" (2.54mm) Locking with Black Handle	SC1149-ND	5.00	3.75	3.44	760K
		Miniature 2-Conductor Power Jacks — RoHS Compliant					
10A	760	.1" (2.54mm) Solder Lug Panel Mount	SC1048-ND	3.36	2.52	2.31	712A
	S760	.08" (2.03mm) Solder Lug Panel Mount	SC1049-ND	3.36	2.52	2.31	722A
10B	760	.1" (2.54mm) PC Terminal Panel Mount	SC1050-ND	3.36	2.52	2.31	PC712A
	S760	.08" (2.03mm) PC Terminal Panel Mount	SC1047-ND	3.36	2.52	2.31	PC722A
11	761K	.1" (2.54mm) Solder Lug Panel Mount, Long Bushing	SC1150-ND	4.56	3.42	3.14	L712A
	S761K	.08" (2.03mm) Solder Lug Panel Mount, Long Bushing	SC1151-ND	4.56	3.42	3.14	L722A
12	S760	.08" (2.03mm) Right Angle PC Terminal, Panel Mount	SC1330-ND	3.68	2.76	2.53	722RA
	S761K	.08" (2.03mm) Right Angle PC Terminal, Panel Mount, Long Bushing	SC1331-ND	4.92	3.69	3.38	L722RA
13	760	.1" (2.54mm) Right Angle PC Mount	SC237-ND	1.44	1.08	.99	RAPC712X
	S760	.08" (2.03mm) Right Angle PC Mount	SC1313-ND	1.44	1.08	.99	RAPC722X
14	760	.1" (2.54mm) Right Angle Hybrid Mount	SC1324-ND	1.56	1.17	1.07	RASH712X
	S760	.08" (2.03mm) Right Angle Hybrid Mount	SC1325-ND	1.56	1.17	1.07	RASH722X

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	100	Switchcraft Part No.
	Phono Jacks and Plugs						
15	Phono Plug 2 Conductor	SC1312-ND◆	.63	.47	.43	.40	3501MX
16	Phono Plug 2 Conductor with Cable Clamp	SC1318-ND◆	1.51	1.14	1.05	.95	3501MCX
17	Phono Jack 2 Conductor Front Panel Mount with Hardware	SC1319-ND◆	1.80	1.35	1.24	1.13	3501FPX
—	Insulated Washer Flat For SC1319-ND	SC1144-ND◆	.41	.31	.28	.26	S-2207
—	Insulated Washer Extruded For SC1319-ND	SC1145-ND◆	.48	.36	.33	.30	S1564
18	Phono Jack 2 Conductor Rear Panel Mount with Hardware	SC1320-ND◆	2.32	1.74	1.60	1.45	3501FRX
—	Insulated Washer Flat For SC1320-ND	SC1146-ND◆	.21	.17	.16	.14	S1028
—	Insulated Washer Extruded For SC1320-ND	SC1147-ND◆	.48	.36	.33	.30	S1029
19	Phono Plug 2 Conductor, Red Cable Clamp with Hardware	SC1321-ND◆	1.92	1.44	1.32	1.20	35581X
19	Phono Plug 2 Conductor, Black Cable Clamp with Hardware	SC1136-ND	3.84	2.89	2.66	2.41	3558-2
19	Phono Plug 2 Conductor, Black Cable Clamp with Hardware	SC1322-ND◆	1.92	1.44	1.32	1.20	35582X
20	Phono Plug 2 Conductor, Shielded with Cable Clamp	SC1138-ND◆	2.48	1.86	1.71	1.55	3502
21	Phono Extension Jack 2 Conductor, Shielded with Heavy Duty Clamp	SC1323-ND◆	3.60	2.70	2.48	2.25	3503X

◆ ***RoHS Compliant***

Audio and Power Connectors

Fig. 1 – Right Angle Panel Mount Jack, Mono

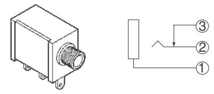

Fig. 2 – PCB Panel Mount Jack, Mono

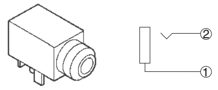

Fig. 3 – Straight Panel Mount Jack, Mono

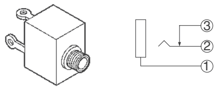

Fig. 4 – Audio Jack, Mono

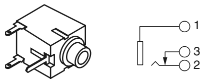

Fig. 5 – Audio Jack, Mono

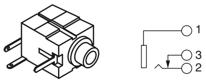

Fig. 6 – Audio Jack, Mono

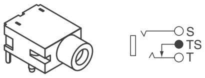

Fig. 7 – SMT Audio Jack, Mono

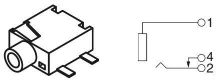

Fig. 8 – SMT Audio Jack, Mono

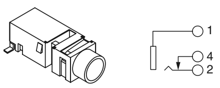

Fig. 9 – SMT Audio Jack, Right Angle

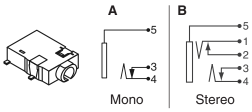

Fig. 10 – Audio Jack, Mono

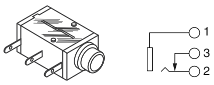

Fig. 11 – SMT Audio Jack, Mono

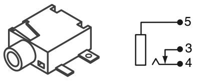

Fig. 12 – SMT Audio Jack, Mono

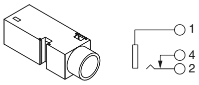

Fig. 13 – Right Angle Panel Mount Jack, Mono

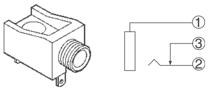

Fig. 14 – Audio Jack, Mono

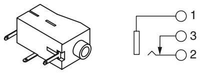

Fig. 15 – Audio Jack, Mono with Isolated Ground

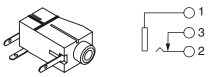

Fig. 16 – Male Mono Plug with Strain Relief

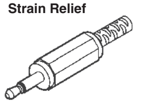

Fig. 17 – Closed Frame Power Jack

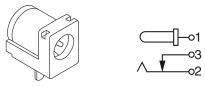

Fig. 18 – SMT Closed Frame Power Jack

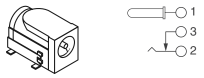

Fig. 19 – Open Frame Power Jack

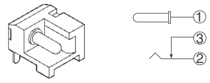

Fig. 20 – Panel Mount Jack with Hardware

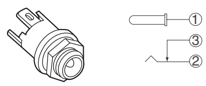

Fig. 21 – Vertical Power Jack with Solder Eyelets

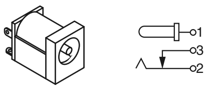

Fig. 22 – Vertical SMT Power Jack

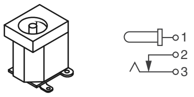

Fig. 23 – Vertical SMT Power Jack

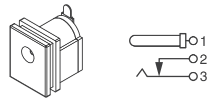

Fig. 24 – Closed Frame Right Angle Power Jack

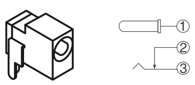

Fig. 25 – Low Profile DC Power Jack

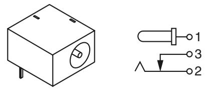

Fig. 26 – SMT Low Profile DC Power Jack

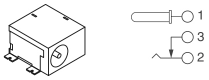

Fig. 27 – SMT Power Jack

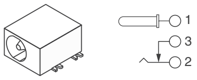

Fig. 28 – Closed Frame DC Power Jack

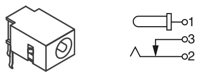

Fig. 29 – Power Jack, PCB with Kinked Pins

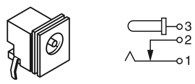

Fig. 30 – SMT Power Jack

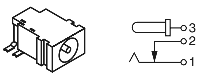

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each			CUI Inc. Part No.
				1	10	100	
1	MP3-2501	2.5	CP-2502-ND*◆	.99	.86	.66	MJ-2502
2	MP3-2501	2.5	CP1-2503AM-ND†◆	.32	.28	.22	MJ1-2503A
3	MP3-2501	2.5	CP-2505-ND*◆	.93	.81	.62	MJ-2505
4	MP3-2501	2.5	CP-2506-ND*	.41	.36	.28	MJ-2506
			CP-2506N-ND†◆	.41	.36	.28	MJ-2506N
5	MP3-2501	2.5	CP-2508-ND*◆	.35	.31	.24	MJ-2508
			CP-2508N-ND†◆	.35	.31	.24	MJ-2508N
6	MP3-2501	2.5	CP-M2509N-ND◆	.38	.34	.26	MJ-2509N
7	MP3-2501	2.5	CP1-2510MJCT-ND◆	.68	.59	.45	MJ1-2510-SMT
			CP1-2510MJTR-ND◆	337.50/1,000			MJ1-2510-SMT
8	MP3-2501	2.5	CP-2523MJCT-ND◆	.86	.75	.58	MJ-2523-SMT
			CP-2523MJTR-ND◆	429.00/1,000			MJ-2523-SMT
9A	MP3-2501	2.5	CP-2533MJTR-ND	495.00/1,000			MJ-2533-SMT
			CP1-2533MJCT-ND	.69	.61	.47	MJ1-2533-SMT
			CP1-2533MJTR-ND	346.50/1,000			MJ1-2533-SMT
9B	SP-2501	2.5	CP1-2535SJCT-ND	.75	.65	.50	SJ1-2535-SMT
			CP1-2535SJTR-ND	375.00/1,000			SJ1-2535-SMT
10	MP3-3501	3.5	CP-3502MJ-ND*◆	.90	.78	.60	MJ-3502
			CP-3502N-ND†◆	.83	.72	.55	MJ-3502N
11	MP3-3501	3.5	CP1-3510MJCT-ND	.63	.55	.42	MJ1-3510-SMT
			CP1-3510MJTR-ND	252.00/800			MJ1-3510-SMT
12	MP3-3501	3.5	CP-3523MJCT-ND◆	.87	.76	.58	MJ-3523-SMT
			CP-3523MJTR-ND◆	433.50/1,000			MJ-3523-SMT
13	MP3-3501	3.5	CP-3536-ND*◆	.39	.35	.27	MJ-3536
14	MP3-3501	3.5	CP-3536N-ND†◆	.39	.35	.27	MJ-3536N
15	MP3-3501	3.5	CP-3536NG-ND†◆	.39	.35	.27	MJ-3536NG
16	—	2.5	CP3-1004-ND◆	.76	.66	.51	MP3-2501
		3.5	CP3-1005-ND◆	.76	.66	.51	MP3-3501
17	PP3-002A	2.1	CP-002A-ND◆	.38	.33	.26	PJ-002A
	PP3-002B	2.5	CP-002B-ND◆	.38	.33	.26	PJ-002B
	PP3-002A	2.0	CP-002AH-ND◆	.42	.37	.28	PJ-002AH
	PP3-002B	2.5	CP-002BH-ND◆	.42	.37	.28	PJ-002BH
18	PP3-002A	2.0	CP-002AHPJCT-ND◆	.90	.78	.60	PJ-002AH-SMT
	PP3-002A	2.0	CP-002AHPJTR-ND◆	157.50/350			PJ-002AH-SMT
	PP3-002B	2.5	CP-002BHPJCT-ND◆	.90	.78	.60	PJ-002BH-SMT
	PP3-002B	2.5	CP-002BHPJTR-ND◆	112.50/250			PJ-002BH-SMT
	PP3-002A	2.1	CP-002APJCT-ND◆	.81	.70	.54	PJ-002A-SMT
	PP3-002A	2.1	CP-002APJTR-ND◆	141.23/350			PJ-002A-SMT
	PP3-002B	2.5	CP-002BPJCT-ND◆	.81	.70	.54	PJ-002B-SMT
	PP3-002B	2.5	CP-002BPJTR-ND◆	141.23/350			PJ-002B-SMT
19	PP3-002A	2.1	CP-003A-ND◆	.34	.30	.23	PJ-003A
	PP3-002B	2.5	CP-003B-ND◆	.34	.30	.23	PJ-003B
20	PP3-002A	2.0	CP-5-ND*◆	1.95	1.69	1.30	PJ-005A
	PP3-002B	2.5	CP-6-ND*◆	1.95	1.69	1.30	PJ-005B
21	PP3-002A	2.1	CP-006A-ND◆	.69	.58	.46	PJ-006A
	PP3-002B	2.5	CP-006B-ND◆	.69	.60	.46	PJ-006B
22	PP3-002A	2.1	CP-006APJCT-ND◆	.93	.81	.62	PJ-006A-SMT
	PP3-002A	2.1	CP-006APJTR-ND◆	116.25/250			PJ-006A-SMT
	PP3-002B	2.5	CP-006BPJCT-ND◆	.93	.81	.62	PJ-006B-SMT
	PP3-002B	2.5	CP-006BPJTR-ND◆	116.25/250			PJ-006B-SMT
23	PP3-002A	2.1	CP-015APJCT-ND◆	.69	.60	.46	PJ-015A-SMT
	PP3-002A	2.1	CP-015APJTR-ND◆	51.75/150			PJ-015A-SMT
	PP3-002B	2.5	CP-015BPJCT-ND◆	.69	.60	.46	PJ-015B-SMT
	PP3-002B	2.5	CP-015BPJTR-ND◆	51.75/150			PJ-015B-SMT
24	PP3-002D	1.3	CP-2519-ND◆	.45	.39	.30	PJ-007
25	PP3-002C	1.0	CP-014C-ND◆	.42	.37	.28	PJ-014C
	PP3-002D	1.3	CP-014D-ND◆	.42	.37	.28	PJ-014D
26	PP3-002C	1.0	CP-014CHPJCT-ND◆	.90	.78	.60	PJ-014CH-SMT
	PP3-002C	1.0	CP-014CHPJTR-ND◆	360.00/800			PJ-014CH-SMT
	PP3-002D	1.3	CP-014DHPJCT-ND◆	.90	.78	.60	PJ-014DH-SMT
	PP3-002D	1.3	CP-014DHPJTR-ND◆	360.00/800			PJ-014DH-SMT
	PP3-002C	1.0	CP-014CPJCT-ND◆	.83	.72	.56	PJ-014C-SMT
	PP3-002C	1.0	CP-014CPJTR-ND◆	332.40/800			PJ-014C-SMT
	PP3-002D	1.3	CP-014DPJCT-ND◆	.83	.72	.56	PJ-014D-SMT
	PP3-002D	1.3	CP-014DPJTR-ND◆	332.40/800			PJ-014D-SMT
27	PP-013	1.65	CP-018HPJCT-ND◆	.81	.79	.71	PJ-018H-SMT
			CP-018HPJTR-ND◆	324.00/800			PJ-018H-SMT
28	PP-013	1.65	CP-016-ND◆	.84	.73	.56	PJ-016
29	PP-014	1.65	CP1-021-ND◆	.42	.37	.28	PJ1-021
30	PP-014	1.65	CP1-021PJCT-ND◆	.65	.57	.44	PJ1-021-SMT
			CP1-021PJTR-ND◆	163.50/500			PJ1-021-SMT
31	PP-012	0.65	CP1-022-ND◆	.60	.52	.40	PJ1-022
32	PP-012	0.65	CP1-022PJCT-ND◆	.65	.56	.43	PJ1-022-SMT
			CP1-022PJTR-ND◆	322.50/1,000			PJ1-022-SMT
	PP-012	0.65	CP-031HPJCT-ND◆	.72	.70	.63	PJ-031H-SMT
			CP-031HPJTR-ND◆	360.00/1,000			PJ-031H-SMT
33	PP-012	0.65	CP1-023-ND◊◆	.58	.51	.39	PJ1-023
34	PP-012	0.65	CP1-023PJCT-ND◊◆	.67	.59	.45	PJ1-023-SMT
			CP1-023PJTR-ND◊◆	336.00/1,000			PJ1-023-SMT
35	PP3-002C	1.0	CP-030CPJCT-ND◆	.84	.82	.73	PJ-030C-SMT
			CP-030CPJTR-ND◆	252.00/600			PJ-030C-SMT
	PP3-002D	1.3	CP-030DPJCT-ND◆	.84	.82	.73	PJ-030D-SMT
			CP-030DPJTR-ND◆	252.00/600			PJ-030D-SMT
36A	PP-017	0.8	CP-028PJCT-ND◆	.72	.70	.63	PJ-028-SMT
			CP-028PJTR-ND◆	360.00/1,000			PJ-028-SMT
36B	CA-2221	0.8	CP-029PJCT-ND◆	.78	.76	.68	PJ-029-SMT
			CP-029PJTR-ND◆	390.00/1,000			PJ-029-SMT
37	PP-012	0.65	CP-032HPJCT-ND◆	.75	.73	.65	PJ-032H-SMT
			CP-032HPJTR-ND◆	375.00/1,000			PJ-032H-SMT

* Threaded with nut † Non-threaded ◊ Shielded version ◆ ***RoHS Compliant***

(Continued)

Fig. 31 – DC Power Jack

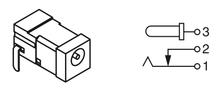

Fig. 32 – SMT Power Jack

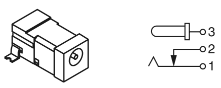

Fig. 33 – DC Power Jack with Shield

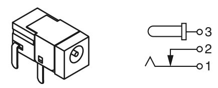

Fig. 34 – SMT Power Jack with Shield

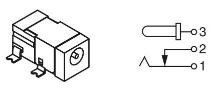

Fig. 35 – Open Frame Power Jack

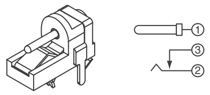

Fig. 36 – SMT Power Jack

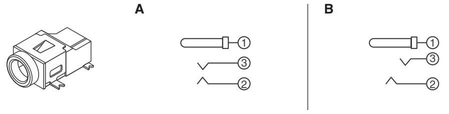

Fig. 37 – SMT Power Jack with Shield

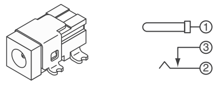

Fig. 38 – SMT Power Jack

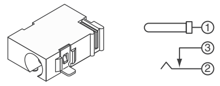

Fig. 39 – SMT Power Jack

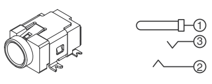

Fig. 40 – SMT Power Jack

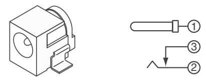

Fig. 41 – SMT Power Jack

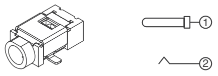

Fig. 42 – SMT Power Jack

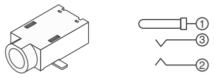

Fig. 43 – SMT Power Jack

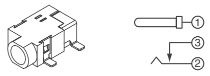

Fig. 44 – SMT Power Jack

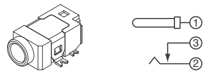

Fig. 45 – DC Power Jack

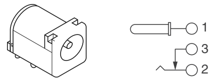

Fig. 46 – Power Socket

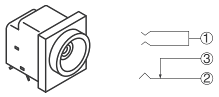

Fig. 47 – Female Plug 5.5 Outside

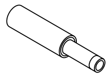

Fig. 48 – Power Receptacle

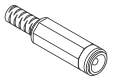

Fig. 49 – Female Plug, 3.5mm Outside

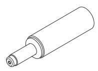

Fig. 50 – Female Plug, 3.5mm Outside

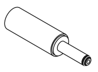

Fig. 51 – Female Plug

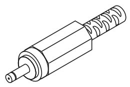

Fig. 52 – Power Plug

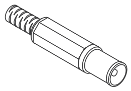

Fig. 53 – DC Power Plug

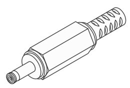

Fig. 54 – DC Power Plug

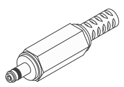

Fig. 55 – Audio Jack, Stereo

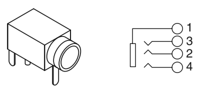

Fig. 56 – SMT Stereo Jack

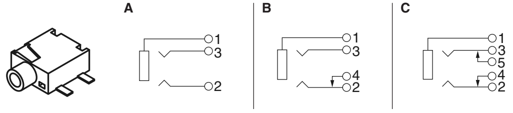

Fig. 57 – SMT Audio Jack, Stereo

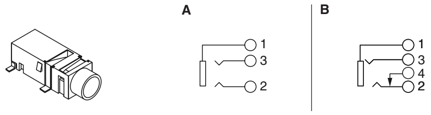

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each			CUI Inc. Part No.
				1	10	100	
38	PP-012	0.65	CP-034PJCT-ND◆	.84	.82	.73	PJ-034-SMT
			CP-034PJTR-ND◆		420.00/1,000		PJ-034-SMT
39	PP-018	1.0	CP-035PJCT-ND◆	.78	.76	.68	PJ-035-SMT
			CP-035PJTR-ND◆		331.50/850		PJ-035-SMT
40	PP3-002A	2.0	CP-036APJCT-ND◆	.93	.90	.81	PJ-036A-SMT
			CP-036APJTR-ND◆		93.00/200		PJ-036A-SMT
			CP-036AHPJCT-ND◆	.99	.96	.86	PJ-036AH-SMT
			CP-036AHPJTR-ND◆		99.00/200		PJ-036AH-SMT
40	PP3-002B	2.5	CP-036BPJCT-ND◆	.93	.90	.81	PJ-036B-SMT
			CP-036BPJTR-ND◆		93.00/200		PJ-036B-SMT
			CP-036BHPJCT-ND◆	.99	.96	.86	PJ-036BH-SMT
			CP-036BHPJTR-ND◆		99.00/200		PJ-036BH-SMT
	PP3-002A	2.0	CP-037APJCT-ND◆	.93	.90	.81	PJ-037A-SMT
			CP-037APJTR-ND◆		93.00/200		PJ-037A-SMT
			CP-037AHPJCT-ND◆	.99	.96	.86	PJ-037AH-SMT
			CP-037AHPJTR-ND◆		99.00/200		PJ-037AH-SMT
	PP3-002B	2.5	CP-037BPJCT-ND◆	.93	.90	.81	PJ-037B-SMT
			CP-037BPJTR-ND◆		93.00/200		PJ-037B-SMT
			CP-037BHPJCT-ND◆	.99	.96	.86	PJ-037BH-SMT
			CP-037BHPJTR-ND◆		99.00/200		PJ-037BH-SMT
41	PP-012	0.65	CP-038PJCT-ND◆	.90	.87	.78	PJ-038-SMT
			CP-038PJTR-ND◆		540.00/1,200		PJ-038-SMT
			CP-039PJCT-ND◆	.90	.87	.78	PJ-039-SMT
			CP-039PJTR-ND◆		540.00/1,200		PJ-039-SMT
42	PP-012	0.65	CP-040PJCT-ND◆	.84	.82	.73	PJ-040-SMT
			CP-040PJTR-ND◆		504.00/1,200		PJ-040-SMT
			CP-041PJCT-ND◆	.84	.82	.73	PJ-041-SMT
			CP-041PJTR-ND◆		504.00/1,200		PJ-041-SMT
43	PP-012	0.65	CP-042PJCT-ND◆	.87	.85	.76	PJ-042-SMT
			CP-042PJTR-ND◆		652.50/1,500		PJ-042-SMT
44	PP-019	1.0	CP-043PJCT-ND◆	.87	.85	.76	PJ-043-SMT
			CP-043PJTR-ND◆		391.50/900		PJ-043-SMT
45	PP3-002A	2.1	CP-102A-ND◆	.38	.33	.26	PJ-102A
	PP3-002B	2.5	CP-102B-ND◆	.38	.33	.26	PJ-102B
	PP3-002A	2.1	CP-102AH-ND◆	.42	.37	.28	PJ-102AH
	PP3-002B	2.5	CP-102BH-ND◆	.42	.37	.28	PJ-102BH
	PP3-002A	2.1	CP-202A-ND◆	.38	.33	.26	PJ-202A
	PP3-002B	2.5	CP-202B-ND◆	.38	.33	.26	PJ-202B
	PP3-002A	2.1	CP-202AH-ND◆	.42	.37	.28	PJ-202AH
	PP3-002B	2.5	CP-202BH-ND◆	.42	.37	.28	PJ-202BH
46	PP-015	1.1	CP-019-ND◆	.66	.58	.44	PJ-019
	PP-016	1.45	CP-025-ND◆	.66	.58	.44	PJ-025
47	—	2.1	CP3-1000-ND◆	.93	.81	.62	PP3-002A
		2.5	CP3-1001-ND◆	.93	.81	.62	PP3-002B

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each			CUI Inc. Part No.
				1	10	100	
48	—	2.1	CP-024A-ND◆	2.28	1.98	1.52	PR-002A
		2.5	CP-024B-ND◆	2.28	1.98	1.52	PR-002B
49	—	1.0	CP3-1002-ND◆	.93	.81	.62	PP3-002C
50	—	1.3	CP3-1003-ND◆	.93	.81	.62	PP3-002D
51	—	0.7 x 2.35	CP-012-ND◆	.90	.78	.60	PP-012
	—	1.7 x 4.0	CP-013-ND◆	.84	.73	.56	PP-013
	—	1.7 x 4.75	CP-014-ND◆	.84	.73	.56	PP-014
52	—	1.0 x 5.5	CP-015-ND◆	1.20	1.04	.80	PP-015
	—	1.4	CP-026-ND◆	1.08	.94	.72	PP-016
53	—	0.9	CP-017-ND◆	1.08	.94	.72	PP-017
		1.1	CP-119-ND◆	1.08	.94	.72	PP-019
54	PJ-035-SMT	1.1	CP-018-ND◆	1.20	1.04	.80	PP-018
55	SP-2501	2.5	CP1-2503A-ND†◆	.33	.29	.22	SJ1-2503A
56A	SP-2501	2.5	CP1-2513SJCT-ND◆	.68	.59	.45	SJ1-2513-SMT
			CP1-2513SJTR-ND◆		337.50/1,000		SJ1-2513-SMT
56B	SP-2501	2.5	CP-2514TR-ND		1050.00/1,000		SJ-2513-SMT
			CP1-2514SJCT-ND	.69	.60	.46	SJ1-2514-SMT
			CP1-2514SJTR-ND		345.00/1,000		SJ1-2514-SMT
56C	SP-2501	2.5	CP1-2515SJCT-ND◆	.71	.62	.47	SJ1-2515-SMT
			CP1-2515SJTR-ND◆		352.50/1,000		SJ1-2515-SMT
57A	SP-2501	2.5	CP-2523SJCT-ND◆	.86	.75	.58	SJ-2523-SMT
			CP-2523SJTR-ND◆		429.00/1,000		SJ-2523-SMT
57B	SP-2501	2.5	CP-2524SJCT-ND◆	.90	.78	.60	SJ-2524-SMT
			CP-2524SJTR-ND◆		448.50/1,000		SJ-2524-SMT
58	SP-2501	2.5	CP1-2533SJCT-ND◆	.69	.61	.47	SJ1-2533-SMT
			CP1-2533SJTR-ND◆		346.50/1,000		SJ1-2533-SMT
59	SP-2501	2.5	CP1-2534SJCT-ND◆	.74	.64	.49	SJ1-2534-SMT
			CP1-2534SJTR-ND◆		367.50/1,000		SJ1-2534-SMT
60A	SP-3501	3.5	CP-3504-ND†◆	2.06	1.79	1.38	SJ-3504
60B	SP-3501	3.5	CP-3505-ND†◆	2.10	1.83	1.41	SJ-3505
61A	SP-3501	3.5	CP1-3513-ND*◆	.59	.52	.40	SJ1-3513
			CP1-3513N-ND†◆	.53	.46	.35	SJ1-3513N
61B	SP-3501	3.5	CP1-3514-ND*◆	.60	.53	.41	SJ1-3514
			CP1-3514N-ND†◆	.54	.47	.36	SJ1-3514N
61C	SP-3501	3.5	CP1-3515-ND*◆	.62	.54	.41	SJ1-3515
			CP1-3515N-ND†◆	.55	.48	.37	SJ1-3515N
62A	SP-3501	3.5	CP1-3513SJCT-ND◆	.63	.55	.42	SJ1-3513-SMT
			CP1-3513SJTR-ND◆		252.00/800		SJ1-3513-SMT
62B	SP-3501	3.5	CP1-3514SJCT-ND◆	.65	.56	.43	SJ1-3514-SMT
			CP1-3514SJTR-ND◆		258.00/800		SJ1-3514-SMT

* Threaded with nut † Non-threaded ◊ Shielded version ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig. 58 – SMT Audio Jack, Stereo

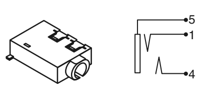

Fig. 59 – SMT Audio Jack, Stereo

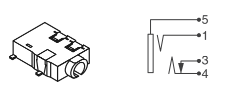

Fig. 60 – Right Angle PCB Mount Jack, Stereo

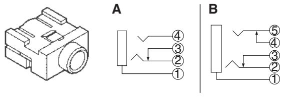

Fig. 61 – Audio Jack, Stereo

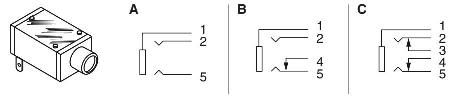

Fig. 62 – SMT Audio Jack, Stereo

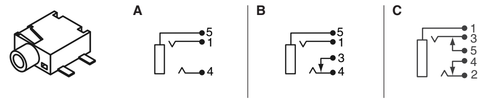

Fig. 63 – Audio Jack, Stereo

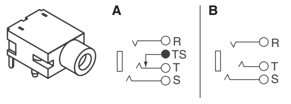

Fig. 64 – Audio Jack, Stereo

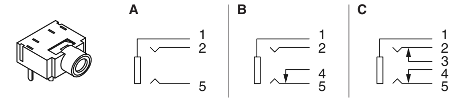

Fig. 65 – SMT Audio Jack, Stereo

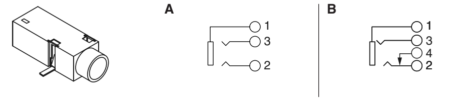

Fig. 66 – Audio Jack, Stereo

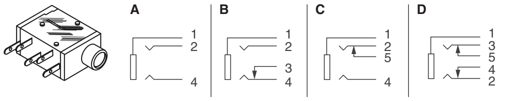

Fig. 67 – Stereo Jack

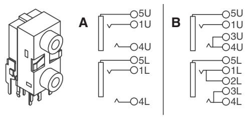

Fig. 68 – Stereo Jack

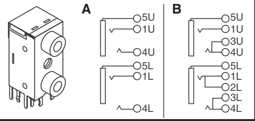

Fig. 69 – Audio Jack, Stereo

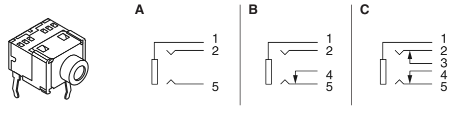

Fig. 70 – Audio Jack, Stereo

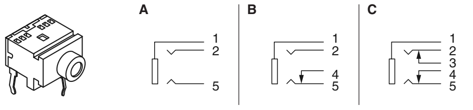

Fig. 71 – Audio Jack

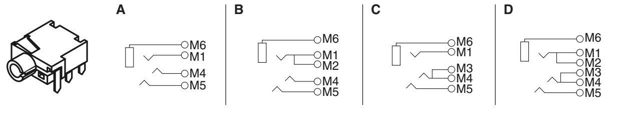

Fig. 72 – SMT Audio Jack

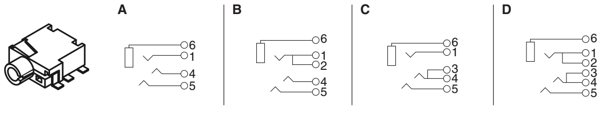

Fig. 73 – SMT Audio Jack

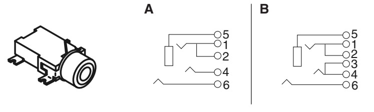

Fig. 74 – SMT Audio Jack

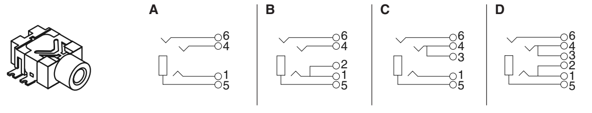

Fig. 75 – Panel Mount Audio Jack

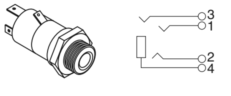

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
62C	SP-3501	3.5	CP1-3515SJCT-ND◆ CP1-3515SJTR-ND◆	.66 264.00/800	.58	.44	SJ1-3515-SMT SJ1-3515-SMT
63A	SP-2501	2.5	CP-S2504N-ND◆	.45	.40	.31	SJ-2504N
63B	SP-2501	2.5	CP-S2509N-ND◆	.43	.37	.29	SJ-2509N
64A	SP-3501	3.5	CP1-3523N-ND†◆ CP1-3523NG-ND†◆	.38 .38	.33 .34	.26 .26	SJ1-3523N SJ1-3523NG
64B	SP-3501	3.5	CP1-3524NG-ND†◆ CP1-3524N-ND†◆	.40 .39	.35 .34	.27 .26	SJ1-3524NG SJ1-3524N
64C	SP-3501	3.5	CP1-3525NG-ND◆ CP1-3525N-ND◆	.41 .40	.36 .35	.28 .27	SJ1-3525NG SJ1-3525N
65A	SP-3501	3.5	CP-3523SJCT-ND◆ CP-3523SJTR-ND◆	.87 433.50/1,000	.76	.58	SJ-3523-SMT SJ-3523-SMT
65B	SP-3501	3.5	CP-3524SJCT-ND◆ CP-3524SJTR-ND◆	.90 448.50/1,000	.78	.60	SJ-3524-SMT SJ-3524-SMT
66A	SP-3501	3.5	CP1-3533-ND◆ CP1-3533N-ND◆ CP1-3533NG-ND†◆ CP1-3533NS-ND†◊◆	.68 .60 .59 .77	.59 .53 .52 .67	.46 .41 .40 .51	SJ1-3533 SJ1-3533N SJ1-3533NG SJ1-3533NS
66B	SP-3501	3.5	CP1-3534N-ND†◆ CP1-3534NG-ND†◆	.62 .61	.54 .53	.41 .41	SJ1-3534N SJ1-3534NG
66C	SP-3501	3.5	CP-3534NS-ND†◊ CP1-3534NS-ND†◊	1.12 .78	.97 .68	.75 .52	SJ-3534NS SJ1-3534NS
66D	SP-3501	3.5	CP1-3535-ND*◆ CP1-3535N-ND†◆ CP1-3535NG-ND†◆ CP1-3535NS-ND†◆	.71 .63 .62 .80	.62 .55 .54 .69	.47 .42 .42 .53	SJ1-3535 SJ1-3535N SJ1-3535NG SJ1-3535NS
67A	SP-3501	3.5	CP-351133-ND◆	1.67	1.46	1.12	SJD-3511-33
67B	SP-3501	3.5	CP-351145-ND◆	1.58	1.37	1.05	SJD-3511-45
68A	SP-3501	3.5	CP-351033-ND◆ CP-351233-ND◆	1.43 1.67	1.24 1.46	.96 1.12	SJD-3510-33 SJD-3512-33
68B	SP-3501	3.5	CP-351045-ND◆ CP-351245-ND◆	1.49 1.82	1.29 1.58	1.00 1.22	SJD-3510-45 SJD-3512-45
69A	SP-3501	3.5	CP1-3543-ND*◆ CP1-3543N-ND†◆	.62 .55	.54 .48	.42 .37	SJ1-3543 SJ1-3543N
69B	SP-3501	3.5	CP1-3544-ND*◆ CP-3544N-ND† CP1-3544N-ND†◆	.63 .97 .56	.55 .84 .49	.43 .65 .38	SJ1-3544 SJ-3544N SJ1-3544N
69C	SP-3501	3.5	CP1-3545N-ND†◆	.57	.50	.38	SJ1-3545N
70A	SP-3501	3.5	CP1-3553NG-ND†◆	.50	.44	.34	SJ1-3553NG
70B	SP-3501	3.5	CP-3554NG-ND† CP1-3554NG-ND†◆	.94 .52	.82 .45	.63 .35	SJ-3554NG SJ1-3554NG
70C	SP-3501	3.5	CP1-3555NG-ND†◆	.53	.46	.36	SJ1-3555NG
71A	CA-254S or CA-254S-M/M	2.5	CP1-42514-ND	.71	.62	.48	SJ1-42514

* Threaded with nut † Non-threaded ◊ Shielded version ◆ ***RoHS Compliant***

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
71B	CA-254S or CA-254S-M/M	2.5	CP-42515RS-ND CP1-42515RS-ND	1.05 .74	.91 .64	.70 .49	SJ-42515RS SJ1-42515RS
71C	CA-254S or CA-254S-M/M	2.5	CP-42515TS-ND CP1-42515TS-ND	1.05 .74	.91 .64	.70 .49	SJ-42515TS SJ1-42515TS
71D	CA-254S or CA-254S-M/M	2.5	CP1-42516-ND◆	.76	.66	.51	SJ1-42516
72A	CA-254S or CA-254S-M/M	2.5	CP1-42514SJCT-ND◆ CP1-42514SJTR-ND◆	.80 400.50/1,000	.70	.54	SJ1-42514-SMT SJ1-42514-SMT
72B	CA-254S or CA-254S-M/M	2.5	CP-42515RSSJTR-ND CP-42515RSSJ-ND CP1-42515RSSJCT-ND CP1-42515RSSJTR-ND	525.00/1,000 1.05 .83 412.50/1,000	 .91 .72	 .70 .55	SJ-42515RS-SMT SJ-42515RS-SMT-1 SJ1-42515RS-SMT SJ1-42515RS-SMT
72C	CA-254S or CA-254S-M/M	2.5	CP-42515TSSJTR-ND CP-42515TSSJ-ND CP1-42515TSSJCT-ND CP1-42515TSSJTR-ND	525.00/1,000 1.05 .83 412.50/1,000	 .91 .72	 .70 .55	SJ-42515TS-SMT SJ-42515TS-SMT-1 SJ1-42515TS-SMT SJ1-42515TS-SMT
72D	CA-254S or CA-254S-M/M	2.5	CP1-42516SJCT-ND◆ CP1-42516SJTR-ND◆	.85 424.50/1,000	.74	.57	SJ1-42516-SMT SJ1-42516-SMT
73A	CA-254CS or CA-254CS-M/M	2.5	CP-42525RSSJTR-ND	525.00/1,000			SJ-42525RS-SMT
73B	CA-254CS or CA-254CS-M/M	2.5	CP-42526SJCT-ND CP-42526SJTR-ND	1.08 648.00/1,200	.94	.72	SJ-42526-SMT SJ-42526-SMT
74A	CA-254S or CA-254S-M/M	2.5	CP1-42534SJCT-ND◆ CP1-42534SJTR-ND◆	.86 427.50/1,000	.75	.57	SJ1-42534-SMT SJ1-42534-SMT
74B	CA-254S or CA-254S-M/M	2.5	CP1-42535RSSJCT-ND	.88	.77	.59	SJ1-42535RS-SMT
74C	CA-254S or CA-254S-M/M	2.5	CP-42535TSSJTR-ND CP-42535TSSJ-ND CP1-42535TSSJCT-ND CP1-42535TSSJTR-ND	585.00/1,000 1.17 .88 439.50/1,000	 1.02 .77	 .78 .59	SJ-42535TS-SMT SJ-42535TS-SMT-1 SJ1-42535TS-SMT SJ1-42535TS-SMT
74D	CA-254S or CA-254S-M/M	2.5	CP-42536SJ-ND CP1-42536SJCT-ND◆ CP1-42536SJTR-ND◆	1.20 .90 450.00/1,000	1.04 .78	.80 .60	SJ-42536-SMT-1 SJ1-42536-SMT SJ1-42536-SMT
75	CA-354S or CA-354S-M/M	3.5	CP-43502PM-ND◆	3.69	3.20	2.46	SJ-43502PM
76A	CA-354S or CA-354S-M/M	3.5	CP-43514-ND◆	.90	.78	.60	SJ-43514
76B	CA-354S or CA-354S-M/M	3.5	CP-43515TS-ND◆	.93	.81	.62	SJ-43515TS
77A	CA-354S or CA-354S-M/M	3.5	CP-43514SJCT-ND◆ CP-43514SJTR-ND◆	.69 345.00/1,000	.60	.46	SJ-43514-SMT SJ-43514-SMT
77B	CA-354S or CA-354S-M/M	3.5	CP-43515RSSJCT-ND◆ CP-43515RSSJTR-ND◆	.71 352.50/1,000	.62	.47	SJ-43515RS-SMT SJ-43515RS-SMT
77C	CA-354S or CA-354S-M/M	3.5	CP-43515TSSJCT-ND◆ CP-43515TSSJTR-ND◆	.71 352.50/1,000	.62	.47	SJ-43515TS-SMT SJ-43515TS-SMT

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Fig. 76 – Audio Jack

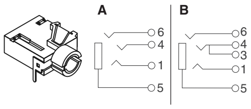

Fig. 77 – SMT Audio Jack

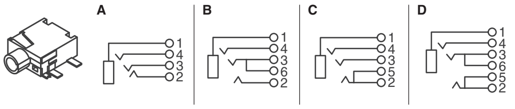

Fig. 78 – Audio Jack

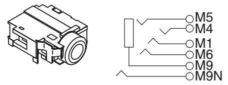

Fig. 79 – 2.5mm Male Stereo Plug

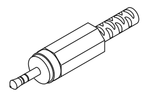

Fig. 80 – 3.5mm Male Stereo Plug

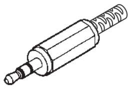

Fig. 81 – Female Mono Jack

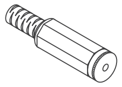

Fig. 82 – Female Stereo Jack

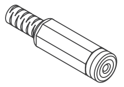

Fig. 83 – Panel Mount Power Jack w/ Solder Lug Pins

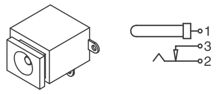

Fig. 84 – Panel Mount Power Jack

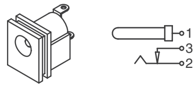

Fig. 85 – Panel Mount Power Jack with Tabs

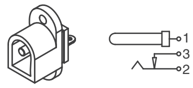

Fig. 86 – Panel Mount Power Jack with Nuts

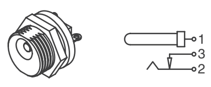

Fig. 87 – Low Profile, Off Center Style Power Jack

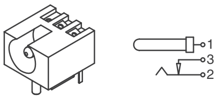

Fig. 88 – Power Jack

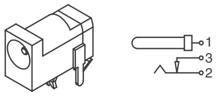

Fig. 89 – Panel Mount Power Jack

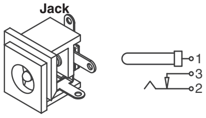

Fig. 90 – Vertical Mount Power Jack with Kinked Pins

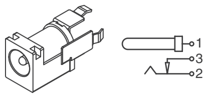

Fig. 91 – Open Frame Power Jack

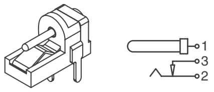

Fig. 92 – Vertical Mount Power Jack

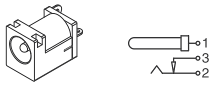

Fig. 93 – Vertical Mount Power Jack w/ Snap In Case Tabs

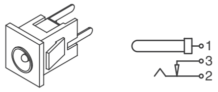

Fig.94 – Vertical Mount Power Jack

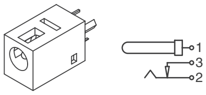

Fig. 95 – Power Jack

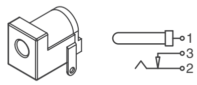

Fig. 96 – Power Jack

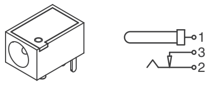

Fig. 97 – Power Jack

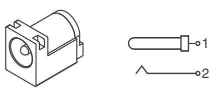

CP-037A-ND and CP-037B-ND without switch.

Fig. 98 – Panel Mount Power Jack

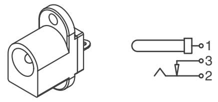

Fig. 99 – Panel Mount Power Jack

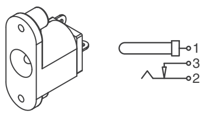

Fig. 100 – Power Jack

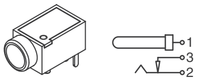

Fig. 101 – Power Jack

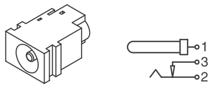

Fig. 102 – Panel Mount Power Jack

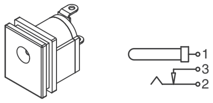

Fig. 103 – Power Jack with Shield

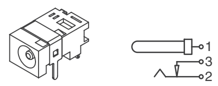

Fig. 104 – Vertical Mount Power Jack with Kinked Pins

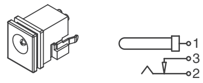

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
77D	CA-354S or CA-354S-M/M	3.5	CP-43516SJCT-ND	.72	.63	.48	SJ-43516-SMT
			CP-43516SJTR-ND	360.00/1,000			SJ-43516-SMT
78	CA-356CS or CA-356CS-M/M	3.5	CP-63516-ND◆	1.26	1.10	.84	SJ-63516
79	—	2.5	CP-2501SP-ND◆	.96	.84	.64	SP-2501
80	—	3.5	CP-3502-ND◆	1.04	.90	.70	SP-3501
81	—	2.5	CP-2520-ND◆	1.29	1.12	.86	MR-2501
		3.5	CP-3506-ND◆	1.29	1.12	.86	MR-3501
82	—	2.5	CP-2521-ND◆	1.92	1.67	1.28	SR-2501
		3.5	CP-3507-ND◆	1.92	1.67	1.28	SR-3501
83	PP3-002A	2.0	CP-008A-ND◆	.53	.47	.36	PJ-008A
	PP3-002B	2.5	CP-008B-ND◆	.53	.47	.36	PJ-008B
84	PP3-002A	2.0	CP-009A-ND◆	.44	.38	.29	PJ-009A
	PP3-002B	2.5	CP-009B-ND◆	.44	.38	.29	PJ-009B
	PP3-002A	2.0	CP-009AH-ND◆	.48	.42	.32	PJ-009AH
	PP3-002B	2.5	CP-009BH-ND◆	.48	.42	.32	PJ-009BH
85	PP3-002A	2.0	CP-010A-ND◆	.43	.38	.29	PJ-010A
	PP3-002B	2.5	CP-010B-ND◆	.43	.38	.29	PJ-010B
	PP3-002A	2.0	CP-010AH-ND◆	.47	.42	.32	PJ-010AH
	PP3-002B	2.5	CP-010BH-ND◆	.47	.42	.32	PJ-010BH
86	PP3-002A	2.0	CP-011A-ND*◆	1.50	1.30	1.00	PJ-011A
	PP3-002B	2.5	CP-011B-ND*◆	1.53	1.33	1.02	PJ-011B
87	PP3-002A	2.0	CP-012A-ND◆	.96	.84	.64	PJ-012A
	PP3-002B	2.5	CP-012B-ND◆	.96	.84	.64	PJ-012B
88	PP3-002C	1.0	CP-013C-ND◆	.46	.40	.31	PJ-013C
	PP3-002D	1.3	CP-013D-ND◆	.46	.40	.31	PJ-013D
	PP-013	1.65	CP-018PJ-ND◆	.47	.42	.32	PJ-018
			CP-018H-ND◆	.52	.45	.35	PJ-018H
	PP3-002C	1.0	CP-031C-ND◆	.46	.40	.31	PJ-031C
	PP3-002D	1.3	CP-031D-ND◆	.46	.40	.31	PJ-031D
	PP3-002C	1.0	CP-031CH-ND◆	.50	.44	.34	PJ-031CH
	PP3-002D	1.3	CP-031DH-ND◆	.50	.44	.34	PJ-031DH
89	PP3-002A	2.0	CP-026A-ND◆	.53	.47	.36	PJ-026A
	PP3-002B	2.5	CP-026B-ND◆	.53	.47	.36	PJ-026B
90	PP3-002A	2.0	CP-028A-ND◆	.46	.40	.31	PJ-028A
	PP3-002B	2.5	CP-028B-ND◆	.46	.40	.31	PJ-028B
	PP3-002A	2.0	CP-028AH-ND◆	.51	.44	.34	PJ-028AH
	PP3-002B	2.5	CP-028BH-ND◆	.51	.44	.34	PJ-028BH
91	PP3-002C	1.0	CP-029C-ND◆	.46	.40	.31	PJ-029C
	PP3-002D	1.3	CP-029D-ND◆	.46	.40	.31	PJ-029D
	PP3-002C	1.0	CP-029CH-ND◆	.50	.44	.34	PJ-029CH
	PP3-002D	1.3	CP-029DH-ND◆	.50	.44	.34	PJ-029DH
	PP3-002C	1.0	CP-030C-ND◆	.46	.40	.31	PJ-030C
	PP3-002D	1.3	CP-030D-ND◆	.46	.40	.31	PJ-030D
	PP3-002C	1.0	CP-030CH-ND◆	.50	.44	.34	PJ-030CH
	PP3-002D	1.3	CP-030DH-ND◆	.50	.44	.34	PJ-030DH

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
92	PP3-002A	2.0	CP-032A-ND◆	.42	.37	.29	PJ-032A
	PP3-002B	2.5	CP-032B-ND◆	.42	.37	.29	PJ-032B
	PP3-002A	2.0	CP-032AH-ND◆	.47	.41	.32	PJ-032AH
	PP3-002B	2.5	CP-032BH-ND◆	.44	.38	.29	PJ-032BH
93	PP3-002A	2.0	CP-033A-ND◆	.68	.59	.46	PJ-033A
	PP3-002B	2.5	CP-033B-ND◆	.68	.59	.46	PJ-033B
94	PP3-002A	2.0	CP-034A-ND◆	.62	.54	.41	PJ-034A
	PP3-002B	2.5	CP-034B-ND◆	.62	.54	.41	PJ-034B
95	PP3-002C	1.0	CP-035C-ND◆	.41	.36	.28	PJ-035C
	PP3-002D	1.3	CP-035D-ND◆	.41	.36	.28	PJ-035D
	PP3-002C	1.0	CP-035CH-ND◆	.46	.40	.31	PJ-035CH
	PP3-002D	1.3	CP-035DH-ND◆	.46	.40	.31	PJ-035DH
	PP3-002C	1.0	CP-017C-ND◆	.41	.36	.28	PJ-017C
	PP3-002D	1.3	CP-017D-ND◆	.41	.36	.28	PJ-017D
	PP3-002C	1.0	CP-017CH-ND◆	.46	.40	.31	PJ-017CH
	PP3-002D	1.3	CP-017DH-ND◆	.46	.40	.31	PJ-017DH
96	PP3-002C	1.0	CP-036C-ND◆	.49	.43	.33	PJ-036C
	PP3-002D	1.3	CP-036D-ND◆	.49	.43	.33	PJ-036D
	PP3-002C	1.0	CP-036CH-ND◆	.53	.47	.36	PJ-036CH
	PP3-002D	1.3	CP-036DH-ND◆	.53	.47	.36	PJ-036DH
97	PP3-002A	2.0	CP-037A-ND◆	.47	.41	.32	PJ-037A
	PP3-002B	2.5	CP-037B-ND◆	.47	.41	.32	PJ-037B
	PP3-002A	2.0	CP-037AH-ND◆	.52	.45	.35	PJ-037AH
	PP3-002B	2.5	CP-037BH-ND◆	.52	.45	.35	PJ-037BH
98	PP3-002A	2.0	CP-038A-ND◆	.47	.41	.32	PJ-038A
	PP3-002B	2.5	CP-038B-ND◆	.47	.41	.32	PJ-038B
	PP3-002A	2.0	CP-038AH-ND◆	.52	.45	.35	PJ-038AH
	PP3-002B	2.5	CP-038BH-ND◆	.52	.45	.35	PJ-038BH
99	PP3-002A	2.0	CP-039A-ND◆	.47	.41	.32	PJ-039A
	PP3-002B	2.5	CP-039B-ND◆	.47	.41	.32	PJ-039B
	PP3-002A	2.0	CP-039AH-ND◆	.52	.45	.35	PJ-039AH
	PP3-002B	2.5	CP-039BH-ND◆	.52	.45	.35	PJ-039BH
100	PP3-002C	1.0	CP-040C-ND◆	.49	.43	.33	PJ-040C
	PP3-002D	1.3	CP-040D-ND◆	.49	.43	.33	PJ-040D
	PP3-002C	1.0	CP-040CH-ND◆	.53	.47	.36	PJ-040CH
	PP3-002D	1.3	CP-040DH-ND◆	.53	.47	.36	PJ-040DH
101	PP-014	1.65	CP-041-ND◆	.58	.51	.39	PJ-041
			CP-041H-ND◆	.63	.55	.42	PJ-041H
	PP-014	1.65	CP-042-ND◆	.58	.51	.39	PJ-042
			CP-042H-ND◆	.63	.55	.42	PJ-042H
102	PP-013	1.65	CP-043-ND◆	.43	.38	.29	PJ-043
			CP-043H-ND◆	.47	.42	.32	PJ-043H
103	PP-013	1.65	CP-045-ND◆	.62	.54	.42	PJ-045
			CP-045H-ND◆	.67	.58	.45	PJ-045H
104	PP-014	1.65	CP-046-ND◆	.53	.46	.36	PJ-046
			CP-046H-ND◆	.57	.50	.39	PJ-046H

* Threaded with nut † Non-threaded ◊ Shielded version ◆ ***RoHS Compliant***

(Continued)

Fig. 105 – Power Jack with Shield

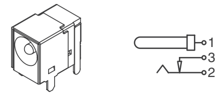

Fig. 106 – Power Jack with Kinked Pins

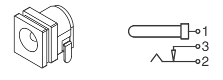

Fig.107 – Vertical Mount Power Jack without Switch

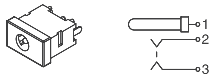

Fig. 108 – Power Jack with Pick-n-Place Top

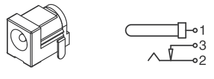

Fig. 109 – Power Jack with Shield

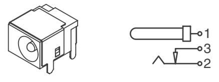

Fig. 110 – Power Jack with Separate Switch

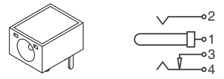

Fig. 111 – Power Jack

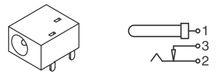

Fig. 112 – Vertical Mount Power Jack

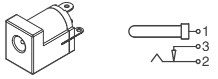

Fig. 113 – Power Jack with 3 Conductors

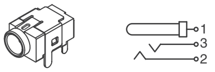

Fig. 114 – Power Jack with Pick-n-Place Top

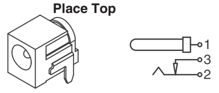

Fig. 115 – Locking Type PowerJack

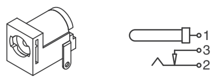

Fig. 116 – Locking Type Power Jack w/ Tapered Pins

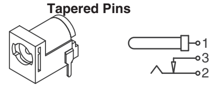

Fig. 117 – Stereo Audio Cables

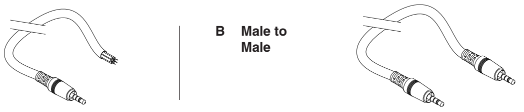

A Male to Stripped and Tinned

B Male to Male

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
105	PP3-002A	2.0	CP-047A-ND◆	.65	.57	.44	PJ-047A
	PP3-002B	2.5	CP-047B-ND◆	.65	.57	.44	PJ-047B
	PP3-002A	2.0	CP-047AH-ND◆	.69	.61	.47	PJ-047AH
	PP3-002B	2.5	CP-047BH-ND◆	.69	.61	.47	PJ-047BH
106	CA-2224 Cable Assy.	3.0	CP-048H-ND◆	.71	.62	.48	PJ-048H
107	PP-014	1.65	CP-049-ND◆	.60	.52	.40	PJ-049
108	PP3-002A	2.0	CP-050A-ND◆	.56	.49	.38	PJ-050A
	PP3-002B	2.5	CP-050B-ND◆	.56	.49	.38	PJ-050B
	PP3-002A	2.0	CP-050AH-ND◆	.61	.53	.41	PJ-050AH
	PP3-002B	2.5	CP-050BH-ND◆	.61	.53	.41	PJ-050BH
109	PP3-002A	2.0	CP-051A-ND◆	.65	.57	.44	PJ-051A
	PP3-002B	2.5	CP-051B-ND◆	.65	.57	.44	PJ-051B
	PP3-002A	2.0	CP-051AH-ND◆	.69	.61	.47	PJ-051AH
	PP3-002B	2.5	CP-051BH-ND◆	.69	.61	.47	PJ-051BH
110	PP3-002C	1.0	CP-052C-ND◆	.62	.54	.41	PJ-052C
	PP3-002D	1.3	CP-052D-ND◆	.62	.54	.41	PJ-052D
111	PP3-002C	1.0	CP-053C-ND◆	.66	.58	.44	PJ-053C
	PP3-002D	1.3	CP-053D-ND◆	.66	.58	.44	PJ-053D
	PP3-002C	1.0	CP-053CH-ND◆	.71	.62	.47	PJ-053CH
	PP3-002D	1.3	CP-053DH-ND◆	.71	.62	.47	PJ-053DH
	PP-013	1.65	CP-054-ND◆	.72	.63	.48	PJ-054

Fig.	Mates With	Dia. (mm)	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
112	PP3-002C	1.0	CP-055C-ND◆	.44	.39	.30	PJ-055C
	PP3-002D	1.3	CP-055D-ND◆	.44	.39	.30	PJ-055D
	PP3-002A	2.0	CP-044A-ND◆	.42	.37	.29	PJ-044A
	PP3-002B	2.5	CP-044B-ND◆	.42	.37	.29	PJ-044B
	PP3-002A	2.0	CP-044AH-ND◆	.47	.41	.32	PJ-044AH
	PP3-002B	2.5	CP-044BH-ND◆	.47	.41	.32	PJ-044BH
113	PP-019	1.0	CP-056-ND◆	.68	.59	.46	PJ-056
114	PP3-002A	2.0	CP-057A-ND◆	.65	.57	.44	PJ-057A
	PP3-002B	2.5	CP-057B-ND◆	.65	.57	.44	PJ-057B
	PP3-002A	2.0	CP-057AH-ND◆	.70	.61	.47	PJ-057AH
	PP3-002B	2.5	CP-057BH-ND◆	.70	.61	.47	PJ-057BH
115	CA-2222 Cable Assy.	2.0	CP-058A-ND◆	.52	.46	.35	PJ-058A
	CA-2223 Cable Assy.	2.5	CP-058B-ND◆	.52	.46	.35	PJ-058B
	CA-2222 Cable Assy.	2.0	CP-058AH-ND◆	.60	.52	.40	PJ-058AH
	CA-2223 Cable Assy.	2.5	CP-058BH-ND◆	.60	.52	.40	PJ-058BH
116	CA-2222 Cable Assy.	2.0	CP-059A-ND◆	.52	.46	.35	PJ-059A
	CA-2223 Cable Assy.	2.5	CP-059B-ND◆	.54	.47	.36	PJ-059B
	CA-2222 Cable Assy.	2.0	CP-059AH-ND◆	.60	.52	.40	PJ-059AH
	CA-2223 Cable Assy.	2.5	CP-059BH-ND◆	.60	.52	.40	PJ-059BH

Fig.	Diameter (mm)	Length Meters	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.	Mating Jacks
				Cable Assembly 4 Conductor				
117A	2.5	1.83	CP-254CS-ND	5.34	4.63	3.56	CA-254CS	SJ-4252X-SMT
	2.5		CP-254S-ND◆	5.19	4.50	3.46	CA-254S	SJ-4251X-SMT, SJ-4243X-SMT
	3.5		CP-354S-ND◆	6.09	5.28	4.06	CA-354S	SJ-4351X, SJ-43502PM
117B	2.5	1.83	CP-254CS-M/M-ND	6.27	5.44	4.18	CA-254CS-M/M	SJ-4252X-SMT
	2.5		CP-254S-M/M-ND◆	6.09	5.28	4.06	CA-254S-M/M	SJ-4251X-SMT, SJ-4243X-SMT, SJ-4251X
	3.5		CP-354S-M/M-ND◆	6.66	5.78	4.44	CA-354S-M/M	SJ-4351X, SJ-43502PM
				Cable Assembly 6 Conductor				
117A	3.5	1.83	CP-356CS-ND	8.52	7.39	5.68	CA-356CS	SJ-63516
117B			CP-356CS-M/M-ND◆	12.57	10.90	8.38	CA-356CS-M/M	SJ-63516

* Threaded with nut † Non-threaded ◊ Shielded version ◆ ***RoHS Compliant***

Single Ended Power Cables

RoHS COMPLIANT

Fig.	Dimensions (mm) A	B	C	Wire Awg	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
1	0.7	2.35	9.5	24	CP-2192-ND	1.77	1.54	1.18	CA-2192
	0.9	3.2	9.0	24	CP-2221-ND	3.87	3.36	2.58	CA-2221
	1.35	3.5	9.5	24	CP-2193-ND	1.59	1.38	1.06	CA-2193
	1.7	4.0	10.0	24	CP-2194-ND	1.65	1.43	1.10	CA-2194
	1.7	4.75	9.5	24	CP-2195-ND	1.65	1.43	1.10	CA-2195
	2.1	5.5	12.0	18	CP-2187-ND	2.52	2.19	1.68	CA-2187
	2.1	5.5	12.0	18	CP-2222-ND*	3.99	3.46	2.66	CA-2222
	2.1	5.5	12.0	24	CP-2185-ND	1.56	1.36	1.04	CA-2185
	2.5	5.5	12.0	18	CP-2186-ND	2.52	2.19	1.68	CA-2186
	2.5	5.5	12.0	18	CP-2223-ND*	3.99	3.46	2.66	CA-2223
	2.5	5.5	12.0	24	CP-2184-ND	1.56	1.36	1.04	CA-2184
	3.0	6.5	12.0	18	CP-2224-ND	3.81	3.31	2.54	CA-2224
2	0.7	2.35	11.0	24	CP-2196-ND	1.77	1.54	1.18	CA-2196
	1.35	3.5	10.0	24	CP-2197-ND	1.59	1.38	1.06	CA-2197
	1.7	4.0	9.5	24	CP-2198-ND	1.65	1.43	1.10	CA-2198
	1.7	4.75	9.5	24	CP-2199-ND	1.65	1.43	1.10	CA-2199
	2.1	5.5	12.0	24	CP-2189-ND	1.56	1.36	1.04	CA-2189
	2.1	5.5	10.0	18	CP-2191-ND	2.52	2.19	1.68	CA-2191
	2.5	5.5	12.0	24	CP-2188-ND	1.56	1.36	1.04	CA-2188
	2.5	5.5	10.0	18	CP-2200-ND	2.52	2.19	1.68	CA-2200

Fig. 1 – **Straight**

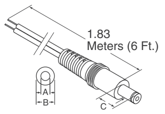

Fig. 2 – **Right Angle**

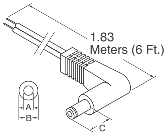

* Twist Lock

Single Ended Audio Cables

RoHS COMPLIANT

Fig.	Dim. (mm) A	B	Wire Awg	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
				Mono Plug – Straight				
1	2.5	11.5	24	CP-2201-ND	2.46	2.14	1.64	CA-2201
	3.5	13	24	CP-2205-ND	2.49	2.16	1.66	CA-2205
				Stereo Plug – Straight				
1	2.5	11	24	CP-2203-ND	2.49	2.16	1.66	CA-2203
	3.5	13	24	CP-2207-ND	2.52	2.19	1.68	CA-2207
				Mono Plug – Right Angle				
2	2.5	11.5	24	CP-2202-ND	2.46	2.14	1.64	CA-2202
	3.5	14.5	24	CP-2206-ND	2.49	2.16	1.66	CA-2206
				Stereo Plug – Right Angle				
2	2.5	11	24	CP-2204-ND	2.49	2.16	1.66	CA-2204
	3.5	14	24	CP-2208-ND	2.52	2.19	1.68	CA-2208

Fig. 1

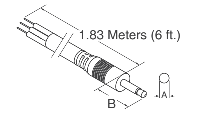

Fig. 2

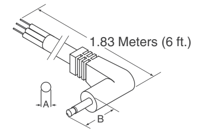

DC Extension Cables

RoHS COMPLIANT

Fig. 1

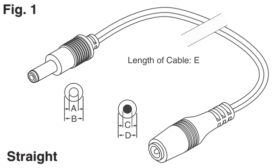

Straight

Fig. 2

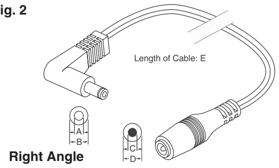

Right Angle

Fig.	Diameter (mm) A	B	C	D	Length (E) Meters	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
1	1.35	3.50	1.35	3.50	.915	CP-2217-ND	2.67	2.32	1.78	CA-2217
	2.10	5.50	2.10	5.50	.915	CP-2216-ND	3.06	2.66	2.04	CA-2216
	2.50	5.50	2.50	5.50	.915	CP-2215-ND	3.06	2.66	2.04	CA-2215
	1.35	3.50	1.35	3.50	1.830	CP-2211-ND	2.91	2.53	1.94	CA-2211
	2.10	5.50	2.10	5.50	1.830	CP-2210-ND	3.84	3.33	2.56	CA-2210
	2.50	5.50	2.50	5.50	1.830	CP-2209-ND	3.84	3.33	2.56	CA-2209
2	1.35	3.50	1.35	3.50	.915	CP-2220-ND	2.67	2.32	1.78	CA-2220
	2.10	5.50	2.10	5.50	.915	CP-2219-ND	3.06	2.66	2.04	CA-2219
	2.50	5.50	2.50	5.50	.915	CP-2218-ND	3.06	2.66	2.04	CA-2218
	1.35	3.50	1.35	5.50	1.830	CP-2214-ND	2.91	2.53	1.94	CA-2214
	2.10	5.50	2.10	5.50	1.830	CP-2213-ND	3.84	3.33	2.56	CA-2213
	2.50	5.50	2.50	5.50	1.830	CP-2212-ND	3.84	3.33	2.56	CA-2212

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CUI INC Phono Plugs and Jacks

Fig. 1

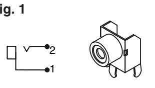

Fig. 2

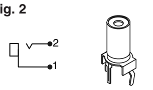

Fig. 3

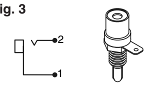

Fig. 4

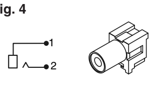

Fig. 5

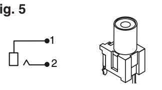

Fig. 6

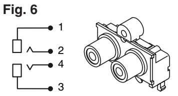

Fig. 7

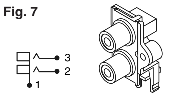

Fig. 8

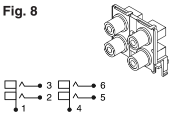

Fig. 9

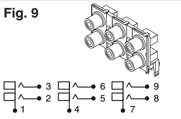

Fig. 10

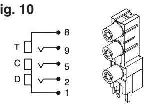

Fig. 11

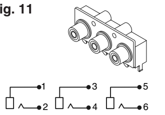

Fig. 12

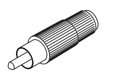

Fig. 13

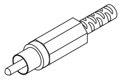

Fig. 14

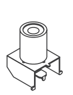

Fig.	Color	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
1	Black	CP-1400-ND◆	.66	.58	.44	RCJ-011
	Red	CP-1401-ND◆	.66	.58	.44	RCJ-012
	White	CP-1402-ND◆	.66	.58	.44	RCJ-013
	Yellow	CP-1403-ND◆	.66	.58	.44	RCJ-014
	Blue	CP-1404-ND◆	.66	.58	.44	RCJ-015
	Green	CP-1405-ND◆	.66	.58	.44	RCJ-016
	Orange	CP-1466-ND◆	.66	.58	.44	RCJ-017
2	Black	CP-1406-ND◆	.78	.68	.52	RCJ-021
	Red	CP-1407-ND◆	.79	.69	.53	RCJ-022
	White	CP-1408-ND◆	.78	.68	.52	RCJ-023
	Yellow	CP-1409-ND◆	.79	.69	.53	RCJ-024
	Blue	CP-1410-ND◆	.79	.69	.53	RCJ-025
	Green	CP-1411-ND◆	.78	.68	.52	RCJ-026
	Orange	CP-1467-ND◆	.78	.68	.52	RCJ-027
3	Black	CP-1412-ND◆	1.05	.91	.70	RCJ-031
	Red	CP-1413-ND◆	1.05	.91	.70	RCJ-032
	White	CP-1414-ND◆	1.05	.91	.70	RCJ-033
	Yellow	CP-1415-ND◆	1.04	.91	.70	RCJ-034
	Blue	CP-1416-ND◆	1.05	.91	.70	RCJ-035
	Green	CP-1417-ND	1.05	.91	.70	RCJ-036
	Orange	CP-1468-ND◆	1.05	.91	.70	RCJ-037
4	Black	CP-1418-ND◆	1.23	1.07	.82	RCJ-041
	Red	CP-1419-ND◆	1.23	1.07	.82	RCJ-042
	White	CP-1420-ND◆	1.23	1.07	.82	RCJ-043
	Yellow	CP-1421-ND◆	1.23	1.07	.82	RCJ-044
	Blue	CP-1422-ND◆	1.23	1.07	.82	RCJ-045
4	Green	CP-1423-ND◆	1.23	1.07	.82	RCJ-046
	Orange	CP-1469-ND◆	1.23	1.07	.82	RCJ-047
5	Black	CP-1424-ND◆	.90	.78	.60	RCJ-051
	Red	CP-1425-ND◆	.90	.78	.60	RCJ-052
	White	CP-1426-ND◆	.90	.78	.60	RCJ-053
	Yellow	CP-1427-ND◆	.90	.78	.60	RCJ-054
	Blue	CP-1428-ND◆	.90	.78	.60	RCJ-055
	Green	CP-1429-ND◆	.90	.78	.60	RCJ-056
	Orange	CP-1470-ND◆	.90	.78	.60	RCJ-057
6	Red/Black	CP-1430-ND◆	1.23	1.07	.82	RCJ-2121
	White/Yellow	CP-1431-ND◆	1.23	1.07	.82	RCJ-2134
	Red/White	CP-1432-ND◆	1.23	1.07	.82	RCJ-2123
7	Red/Black	CP-1433-ND◆	1.17	1.02	.78	RCJ-2221
	White/Yellow	CP-1434-ND◆	1.17	1.02	.78	RCJ-2234
	Red/White	CP-1435-ND◆	1.17	1.02	.78	RCJ-2223
8	Red/Black	CP-1436-ND	2.01	1.75	1.34	RCJ-412211
	White/Yellow	CP-1437-ND◆	2.01	1.75	1.34	RCJ-413344
	Red/White	CP-1438-ND◆	2.01	1.75	1.34	RCJ-412233
9	Red/Black	CP-1439-ND◆	2.52	2.19	1.68	RCJ-61212121
	White/Yellow	CP-1440-ND◆	2.52	2.19	1.68	RCJ-61343434
	Red/White	CP-1441-ND◆	2.52	2.19	1.68	RCJ-61232323
10	Red/White/Yellow	CP-1443-ND§	1.51	1.31	1.01	RCJ-31234
	Red/White/Yellow	CP-1464-ND	2.07	1.80	1.38	RCJ-33234
	Red/Green/Blue	CP-1465-ND◆	2.07	1.80	1.38	RCJ-33265
11	Red/White/Yellow	CP-1445-ND◆	2.01	1.75	1.34	RCJ-32234
	Red/Green/Blue	CP-1446-ND◆	2.01	1.75	1.34	RCJ-32265
12	Black	CP-1447-ND◆	1.20	1.04	.80	RCP-011
	Red	CP-1448-ND◆	1.20	1.04	.80	RCP-012
	White	CP-1449-ND◆	1.20	1.04	.80	RCP-013
	Yellow	CP-1450-ND◆	1.21	1.05	.81	RCP-014
	Blue	CP-1451-ND◆	1.20	1.04	.80	RCP-015
	Green	CP-1452-ND◆	1.20	1.04	.80	RCP-016
13	Black	CP-1453-ND◆	1.25	1.09	.84	RCP-021
	Red	CP-1454-ND◆	1.26	1.10	.84	RCP-022
	White	CP-1455-ND◆	1.26	1.10	.84	RCP-023
	Yellow	CP-1456-ND◆	1.25	1.09	.84	RCP-024
	Blue	CP-1457-ND◆	1.26	1.10	.84	RCP-025
	Green	CP-1458-ND◆	1.26	1.10	.84	RCP-026
14	Black	CP-1459-1-ND◆‡	.72	.63	.56	RCJ-011-SMT
	Black	CP-1459-2-ND◆†	120.00/250			RCJ-011-SMT
	Red	CP-1460-1-ND‡	.72	.63	.56	RCJ-012-SMT
	Red	CP-1460-2-ND†	120.00/250			RCJ-012-SMT
	White	CP-1461-1-ND‡	.72	.63	.56	RCJ-013-SMT
	White	CP-1461-2-ND†	120.00/250			RCJ-013-SMT
	Yellow	CP-1462-1-ND◆‡	.72	.63	.56	RCJ-014-SMT
	Yellow	CP-1462-2-ND◆†	120.00/250			RCJ-014-SMT
	Orange	CP-1463-1-ND‡	.72	.63	.56	RCJ-017-SMT
	Orange	CP-1463-2-ND†	120.00/250			RCJ-017-SMT

◆ ***RoHS Compliant*** § Not Recommended for New Design
‡ Cut Tape † Tape and Reel

EDAC INC Edgecard Connectors

MATERIALS: • **Insulator:** Thermoplastic Polyester, UL 94V-0 (Series 322: Grey Polycarbonate) • **Contacts:** Copper, Nickel, Tin Alloy CA-725 or Phosphor Bronze • **Contact Plating:** Gold on Mating Area, Tin on the Contact Tails, Nickel Underplate • **Colors**: Series 305, 306, 307, 341, 345 and 346 are green; Series 357 and 395 are black.

MECHANICAL: • **P.C. Card Slot:** Accepts boards .054" (1.37mm) to .070" (1.78mm) thick

ELECTRICAL: • **Insulation Resistance:** 5000MΩ at 500VDC • **Dielectric Withstanding Voltage:** Series 341, 345, 395: 1200VAC RMS at sea level; Series 305, 306, 322, 357: 1800VAC RMS at sea level; Series 346: 1500VAC RMS at sea level • **Current Rating:** Series 305, 306, 307, 322, 357: 5 Amperes; Series 345, 346, 341, 395: 3 Amperes • **Contact Resistance:** 10mΩ, maximum

ENVIRONMENTAL: • **Operating Temperature:** -65°C ~ 105°C

RoHS COMPLIANT

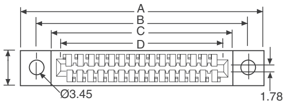

Series: 341 .... 8.38
Series: 305, 306, 307, 322, 346, 357 .... 8.71
Series: 345, 395 .... 9.40

NOTE:
Series 341: 10.16mm for 28/56 pin & up.
Series 306: 12.70mm for 28 pin & up.
Series 305, 307, 357: 12.70mm for 28/56 pin & up

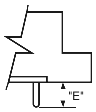

Series: 306 .... 9.65
Series: 322 .... 76.20
Series: 341 .... 11.10
Series: 305, 307, 346, 357 .... 11.68
Series: 345, 395 .... 15.24

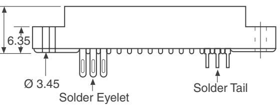

Contacts	Dimensions (mm) A ±.38	B ±.20	C ±.38	D ±.15	E ±.51	Digi-Key Part No.	Pricing 1	10	100	500	EDAC Part No.
Solder Eyelet — .140" (3.56mm) Row-to-Row Spacing											
.100" (2.54mm) Contact Centers											
20	47.63	40.01	32.29	27.94	5.59	EDC341200-ND	13.55	120.18	961.40	4370.00	341-020-500-202
Solder Tail — .140" (3.56mm) Row-to-Row Spacing											
.100" (2.54mm) Contact Centers											
12	37.47	29.85	22.23	17.78	3.18	EDC341120-ND†	7.75	68.75	550.00	2500.00	341-012-520-201
12	37.47	29.85	22.23	17.78	3.18	EDC341122-ND	7.75	68.75	550.00	2500.00	341-012-520-202
20	47.63	40.01	32.29	27.94	3.18	EDC341202-ND	4.25	37.68	301.40	1370.00	341-020-520-202
30	60.33	52.71	45.09	40.64	3.18	EDC341302-ND	4.81	42.63	341.00	1550.00	341-030-520-202
40	73.03	65.41	57.79	53.34	3.18	EDC341402-ND	5.18	45.93	367.40	1670.00	341-040-520-202
50	85.73	78.11	70.49	66.04	3.18	EDC341502-ND	5.67	50.33	402.60	1830.00	341-050-520-202
Solder Eyelet — .140" (3.56mm) Row-to-Row Spacing											
.156" (3.96mm) Contact Centers											
48	118.11	110.24	102.97	99.26	7.16	EDC305480-ND	11.01	97.63	781.00	3550.00	305-048-500-202
56	133.96	126.09	118.82	115.11	7.16	EDC305560-ND	11.90	105.60	844.80	3840.00	305-056-500-202
Solder Tail — .140" (3.56mm) Row-to-Row Spacing											
.156" (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	5.41	EDC305122-ND	3.10	27.50	220.00	1000.00	305-012-520-202
20	62.64	54.76	47.50	43.79	5.41	EDC305202-ND	3.66	32.45	259.60	1180.00	305-020-520-202
24	70.56	62.69	55.42	51.71	5.41	EDC305242-ND	4.19	37.13	297.00	1350.00	305-024-520-202
30	82.45	74.57	67.31	63.60	5.41	EDC305302-ND	4.53	40.15	321.20	1460.00	305-030-520-202
36	94.34	86.46	79.20	75.49	5.41	EDC305362-ND	5.24	46.48	371.80	1690.00	305-036-520-202
44	110.19	102.31	95.05	91.34	5.41	EDC305442-ND	5.92	52.53	420.20	1910.00	305-044-520-202
Solder Tail — .200" (5.08mm) Row-to-Row Spacing											
.100" (2.54mm) Contact Centers											
20	46.61	40.01	32.00	27.94	4.45	EDC345200-ND†	6.79	60.23	481.80	2190.00	345-020-520-201
20	46.61	40.01	32.00	27.94	4.45	EDC395202-ND	2.64	23.38	187.00	850.00	395-020-520-202
26	54.23	47.63	39.62	35.56	4.45	EDC395262-ND	3.16	28.05	224.40	1020.00	395-026-520-202
30	59.31	52.71	44.70	40.64	4.45	EDC395302-ND	3.35	29.70	237.60	1080.00	395-030-520-202
36	66.93	60.33	52.32	48.26	4.45	EDC345362-ND†	8.25	73.15	585.20	2660.00	345-036-520-201
36	66.93	60.33	52.32	48.26	4.45	EDC395362-ND	3.53	31.35	250.80	1140.00	395-036-520-202
40	72.01	65.41	57.40	53.34	4.45	EDC395402-ND	3.72	33.00	264.00	1200.00	395-040-520-202
44	77.09	70.49	62.48	58.42	4.45	EDC395442-ND	3.91	34.65	277.20	1260.00	395-044-520-202
50	84.71	78.11	70.10	66.04	4.45	EDC395500-ND†	9.77	86.63	693.00	3150.00	395-050-520-201
50	84.71	78.11	70.10	66.04	4.45	EDC395502-ND	4.46	39.60	316.80	1440.00	395-050-520-202
56	92.33	85.73	77.72	73.66	4.45	EDC395562-ND	4.62	40.98	327.80	1490.00	395-056-520-202

‡ 4-40 Thread † No Mounting Lugs § Floating Eyelets

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Edgecard Connectors *(Cont.)*

Contacts	Dimensions (mm) A ±.38	B ±.20	C ±.38	D ±.15	E ±.51	Digi-Key Part No.	Pricing 1	10	100	500	EDAC Part No.
60	97.41	90.81	82.80	78.74	4.45	EDC345600-ND†	10.57	93.78	750.20	3410.00	345-060-520-201
60	97.41	90.81	82.80	78.74	4.45	EDC395602-ND	4.81	42.63	341.00	1550.00	395-060-520-202
62	99.95	93.35	85.34	81.28	4.45	EDC395622-ND	5.18	45.93	367.40	1670.00	395-062-520-202
62	99.95	93.35	85.34	81.28	4.45	EDC395062-ND§	2.26	20.08	160.60	730.00	395-062-520-350
.156” (3.96mm) Contact Centers											
20	62.64	54.76	47.50	43.79	5.41	EDC357202-ND	3.35	29.70	237.60	1080.00	357-020-520-202
24	70.56	62.69	55.42	51.71	5.41	EDC357242-ND	3.53	31.35	250.80	1140.00	357-024-520-202
30	82.45	74.57	67.31	63.60	5.41	EDC357302-ND	3.57	31.63	253.00	1150.00	357-030-520-202
36	94.34	86.46	79.20	75.49	5.41	EDC357362-ND	4.06	36.03	288.20	1310.00	357-036-520-202
44	110.19	102.31	95.05	91.34	5.41	EDC357442-ND	4.81	42.63	341.00	1550.00	357-044-520-202
44	123.83	102.36	91.89	83.21	5.41	EDC322442-ND‡	29.88	265.10	2120.80	9640.00	322-044-520-258
Solder Tail — .250” (6.35mm) Row-to-Row Spacing											
.125” (3.18mm) Contact Centers											
44	90.42	83.69	77.09	73.03	4.45	EDC346442-ND	4.06	36.03	288.20	1310.00	346-044-520-202
56	109.47	102.74	96.14	92.08	4.45	EDC346562-ND	4.81	42.63	341.00	1550.00	346-056-520-202
72	134.87	128.14	121.54	117.48	4.45	EDC346722-ND	5.70	50.60	404.80	1840.00	346-072-520-202
100	179.32	172.59	165.99	161.93	4.45	EDC346102-ND	8.25	73.15	585.20	2660.00	346-100-520-202
Solder Tail — Center Spacing (Single Row)											
.156” (3.96mm) Contact Centers											
10	62.64	54.76	47.50	43.79	5.41	EDC306102-ND	3.78	33.55	268.40	1220.00	306-010-520-102
15	82.45	74.57	67.31	63.60	5.41	EDC306152-ND	5.24	46.48	371.80	1690.00	306-015-520-102
18	94.34	86.46	79.20	75.49	5.41	EDC306182-ND	5.77	51.15	409.20	1860.00	306-018-520-102
22	110.19	102.31	95.05	91.34	5.41	EDC306222-ND	7.01	62.15	497.20	2260.00	306-022-520-102
Solder Eyelets — .140” (3.56mm) Row-to-Row Spacing											
.156” (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	7.16	EDC305120-ND	3.10	27.50	220.00	1000.00	305-012-500-202
20	62.64	54.76	47.50	43.79	7.16	EDC305200-ND	3.66	32.45	259.60	1180.00	305-020-500-202
24	70.56	62.69	55.42	51.71	7.16	EDC305240-ND	4.19	37.13	297.00	1350.00	305-024-500-202
30	82.45	74.57	67.31	63.60	7.16	EDC305300-ND	4.53	40.15	321.20	1460.00	305-030-500-202
36	94.34	86.46	79.20	75.49	7.16	EDC305360-ND	5.24	46.48	371.80	1690.00	305-036-500-202
44	110.19	102.31	95.05	91.34	7.16	EDC305440-ND	5.92	52.53	420.20	1910.00	305-044-500-202
Solder Eyelets — .200” (5.08mm) Row-to-Row Spacing											
.156” (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	7.16	EDC307120-ND	2.42	21.45	171.60	780.00	307-012-500-202
20	62.64	54.76	47.50	43.79	7.16	EDC307200-ND	3.32	29.43	235.40	1070.00	307-020-500-202
24	70.56	62.69	55.42	51.71	7.16	EDC307240-ND	3.47	30.80	246.40	1120.00	307-024-500-202
30	82.45	74.57	67.31	63.60	7.16	EDC307300-ND	3.53	31.35	250.80	1140.00	307-030-500-202
36	94.34	86.46	79.20	75.49	7.16	EDC307360-ND	4.03	35.75	286.00	1300.00	307-036-500-202
44	110.19	102.31	95.05	91.34	7.16	EDC307440-ND	4.77	42.35	338.80	1540.00	307-044-500-202
50	122.07	114.20	106.93	103.23	7.16	EDC307500-ND	11.10	98.45	787.60	3580.00	307-050-500-202
56	133.96	126.09	118.82	115.11	7.16	EDC307560-ND	13.24	117.43	939.40	4270.00	307-056-500-202
Solder Tail — .200” (5.08mm) Row-to-Row Spacing											
.156” (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	5.41	EDC307122-ND	4.99	44.28	354.20	1610.00	307-012-520-202
20	62.64	54.76	47.50	43.79	5.41	EDC307202-ND	6.98	61.88	495.00	2250.00	307-020-520-202
30	82.45	74.57	67.31	63.60	5.41	EDC307302-ND	7.69	68.20	545.60	2480.00	307-030-520-202
56	133.96	126.09	118.82	115.11	5.41	EDC307562-ND	13.24	117.43	939.40	4270.00	307-056-520-202
72	165.66	157.78	150.52	146.81	5.41	EDC307722-ND	16.49	146.30	1170.40	5320.00	307-072-520-202
Solder Eyelets — Center Spacing (Single Row)											
.156” (3.96mm) Contact Centers											
10	62.64	54.76	47.50	43.79	7.16	EDC306100-ND	3.78	33.55	268.40	1220.00	306-010-500-102
15	82.45	74.57	67.31	63.60	7.16	EDC306150-ND	5.24	46.48	371.80	1690.00	306-015-500-102
18	94.34	86.46	79.20	75.49	7.16	EDC306180-ND	5.77	51.15	409.20	1860.00	306-018-500-102
22	110.19	102.31	95.05	91.34	7.16	EDC306220-ND	7.01	62.15	497.20	2260.00	306-022-500-102

Contacts	Contact Spacing (mm)	Dimensions (mm) C ±.38	D ±.15	Bus Style	Digi-Key Part No.	Pricing 1	10	100	500	EDAC Part No.
Industry Standard Bus Systems										
60	2.54	82.80	78.74	MULTIBUS 1	EDC345602-ND	4.77	42.35	338.80	1540.00	345-060-524-201
120	2.54	159.00	154.94	VERSABUS	EDC345202-ND	6.88	61.05	488.40	2220.00	345-120-520-201
56	3.18	96.14	92.08	STANDARD BUS	EDC346052-ND	4.81	42.63	341.00	1550.00	346-056-520-802
98	2.54	131.06	127.00	IMB PC-AT ISA	EDC395982-ND§	2.57	22.83	182.60	830.00	395-098-520-350

‡ 4-40 Thread † No Mounting Lugs § Floating Eyelets

AirMax VS® High Speed Connector System

The AirMax VS connector is a revolutionary connector system that offers scalability, flexibility, high density and headroom in performance. “VS” stands for Virtual Shield as this technology requires no interleaving shields. The elimination of these shields results in lower cost, lower weight and offers greater flexibility.

Features: • Shieldless connector system • High pin density per module • Designed to fit HM (hard metric) building practice • No pre-assigned ground pins • Excellent electrical performance • Low weight and low mating forces

Fig. 1

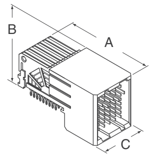

Fig. 2

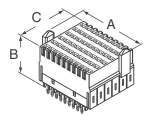

Fig. 3

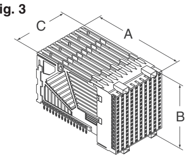

Fig. 4

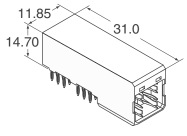

Fig. 5

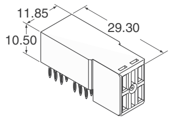

Fig. 6

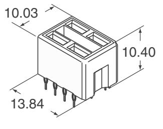

No. of Pos.	No. of Pairs	Pitch Typ. (mm)	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Fig. 1 — Right Angle Headers										
54	3	2.0	1.165 (29.60)	0.451 (11.45)	0.547 (13.90)	609-2104-ND	7.25	5.14	4.73	10039851-101LF
90	3	2.0	1.165 (29.60)	0.451 (11.45)	0.862 (21.90)	609-2092-ND	11.56	8.41	7.62	10034249-101LF
120	4	2.0	1.331 (33.80)	0.600 (15.25)	0.862 (21.90)	609-2838-ND	14.61	10.63	9.63	10028436-101LF
120	4	3.0	1.331 (33.80)	0.600 (15.25)	1.256 (31.90)	609-2097-ND	31.63	23.35	21.47	10035515-101LF
150	5	2.0	1.496 (38.00)	0.781 (19.85)	0.862 (21.90)	609-2089-ND	13.74	10.51	9.62	10025613-101LF
150	5	3.0	1.496 (38.00)	0.781 (19.85)	1.256 (31.90)	609-2099-ND	15.11	11.00	9.97	10037324-101LF
Fig. 2 — Vertical Receptacles										
54	3	2.0	0.610 (15.50)	0.421 (10.70)	0.469 (11.90)	609-2105-ND	6.15	4.23	3.85	10043546-101LF
90	3	2.0	0.610 (15.50)	0.421 (10.70)	0.783 (19.90)	609-2093-ND	5.17	3.75	3.33	10034251-101LF
120	4	2.0	0.744 (18.90)	0.421 (10.70)	0.783 (19.90)	609-2837-ND	27.06	20.30	18.94	10028264-101LF
120	4	3.0	0.744 (18.90)	0.421 (10.70)	1.177 (29.90)	609-2096-ND	26.94	19.60	17.76	10035465-101LF
150	5	2.0	0.941 (23.90)	0.421 (10.70)	0.783 (19.90)	609-2088-ND	12.27	8.93	7.95	10016537-101LF
150	5	3.0	0.941 (23.90)	0.421 (10.70)	1.177 (29.90)	609-2095-ND	12.27	8.93	7.95	10035146-101LF
Fig. 3 — Right Angle Receptacles										
120	4	2.0	1.185 (30.10)	0.585 (14.85)	0.783 (19.90)	609-2098-ND	23.31	16.96	15.10	10035754-101LF
150	5	2.0	1.350 (34.30)	0.766 (19.45)	0.783 (19.90)	609-2094-ND	19.78	14.60	13.43	10034475-101LF
Fig. 4 — Right Angle Power Header										
4	—	2.0	—	—	—	609-2091-ND	6.42	4.42	4.02	10028917-001LF
Fig. 5 — Right Angle Power Receptacle										
4	—	2.0	—	—	—	609-2109-ND	6.31	4.34	3.95	10052620-4444P00LF
Fig. 6 — Vertical Power Receptacle										
4	—	2.0	—	—	—	609-2090-ND	13.95	9.49	8.38	10028916-4555P00LF
Accessories										
7.2 mm Guide Blade - External Thread						609-2100-ND	2.92	1.88	1.67	10037908-101LF
7.2 mm Guide Module Receptacle						609-2101-ND	3.66	2.38	2.17	10037909-101LF
10.7 mm Guide Pin - External Thread						609-2102-ND	3.16	1.98	1.81	10037911-101LF
10.7 mm Guide Module Receptacle						609-2103-ND	4.06	2.71	2.43	10037912-101LF
7.2 mm Guide Blade Co-Planar						609-2106-ND	3.45	2.20	2.01	10044314-101LF
7.2mm Right Angle Guide Socket						609-2107-ND	3.58	2.33	2.13	10045367-101LF
7.2 mm Vertical Guide Pin						609-2108-ND	2.92	1.88	1.67	10045368-101LF

DIN Connectors

Technical Characteristics: • Insulator Material: Polyester Thermoplastic UL 94V0 • Contact Material: Copper Alloy • Contact Plating: Active Zone, Gold over Nickel; Termination Zone, Matte Tin over Nickel • Current Rating at 20°C: 1.5A • Maximum Current: 2A • Temperature Range: -55°C ~ 125°C • Contact Resistance: ≤ 20 mΩ • Insulation Resistance: ≥10^6 MΩ

Fig. 1

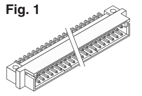

Fig. 2

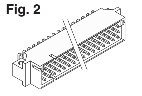

Fig. 3

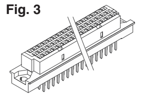

Fig. 4

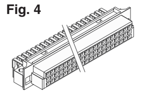

Fig.	No. of Rows	No. of Positions	Style	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Headers								
1	2	64	B	609-2110-ND	4.48	2.78	2.52	86092645113755E1LF
2	3	32	C/2	609-2117-ND	2.95	1.75	1.55	86094327313755E1LF
	3	48	C/2	609-2112-ND	3.39	2.04	1.78	86093487313755E1LF
	3	64	C	609-2119-ND	1.87	1.07	.93	86094647113755ELF
	3	96	C	609-2115-ND	3.51	2.17	1.91	86093967113755ELF
Receptacles								
3	3	32	C/2	609-2118-ND	2.83	1.74	1.56	86094328314755E1LF
	3	48	C/2	609-2113-ND	2.44	1.47	1.28	86093488314755E1LF
	2	64	B	609-2111-ND	4.64	2.99	2.66	86092646114755E1LF
	3	64	C	609-2120-ND	2.27	1.35	1.19	86094648114755V1LF
4	3	48	R/2	609-2114-ND	2.84	1.75	1.56	86093488613755E1LF
	3	64	R	609-2121-ND	1.97	1.16	1.01	86094648813755V1LF
	3	96	R	609-2116-ND	2.52	1.52	1.32	86093968813755V1LF

DDR2 Memory Module Sockets

DDR2 memory module sockets from FCI accept industry-standard FB-DIMM, DIMM or SO-DIMM assemblies. The sockets allow convenient memory expansion in servers, workstations, desktop PCs, mobile PCs and embedded applications in communications and industrial equipment.

Materials: • Housing: High-Temperature Thermoplastic UL94V-O • Contact Base Metal: Copper Alloy • Contact Area Finish: Gold Over Nickel • Solder Area Finish: Tin over Nickel or Gold Flash over Nickel

Specifications: • Initial Contact Resistance: 30mΩ Maximum • Current Rating: 0.5A Contact Maximum • Durability: 25 Cycles Minimum

Fig. 1

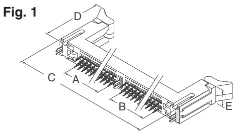

Fig. 2

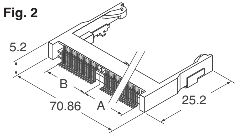

Fig.	Description	Dimensions - Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
240 Position DDR2 DIMM Sockets											
1	Solder Termination with Metal Forklocks	2.480 (63.00)	2.165 (55.00)	5.551 (141.00)	1.008 (25.60)	0.299 (7.60)	609-1000-ND 609-1001-ND 609-1002-ND	2.04 1.97 2.04	1.17 1.07 1.17	1.01 .92 1.01	10005639-11107LF 10005639-11109LF 10005639-12207LF
	Pressfit Termination with Alignment Post	2.480 (63.00)	2.165 (55.00)	5.576 (141.62)	1.012 (25.70)	0.299 (7.60)	609-1005-ND	4.05	2.52	2.28	10034542-10002LF
240 Position DDR2 FB-DIMM Sockets											
1	Solder Termination with Metal Forklocks and Ergonomic Latch Design	2.638 (67.00)	2.008 (51.00)	5.551 (141.00)	0.906 (23.00)	0.305 (7.75)	609-1003-ND 609-1004-ND	5.00 5.43	3.11 2.95	2.81 2.64	10037402-11107LF 10037402-11109LF
200 Position DDR2 SO-DIMM Sockets											
2	Standard Module Orientation with Locating Peg	1.925 (48.9)	0.555 (14.1)	—	—	—	609-1006-ND	8.20	5.22	4.77	10033853-052FSLF
	Standard Module Orientation	1.925 (48.9)	0.555 (14.1)	—	—	—	609-1007-ND	8.25	5.16	4.72	10033853-152FSLF
	Reverse Module Orientation with Locating Peg	1.937 (49.2)	0.543 (13.8)	—	—	—	609-1008-ND	8.28	5.18	4.74	10033854-052FSLF
	Reverse Module Orientation	1.937 (49.2)	0.543 (13.8)	—	—	—	609-1009-ND	10.04	6.28	5.74	10033854-152FSLF

High Definition Multimedia Interface

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	Receptacle SMT Without Flange	609-1010-1-ND† 609-1010-2-ND‡	.94	.58 170.35/400	.52	10029449-00R1LF 10029449-00R1LF
2	Receptacle SMT With Flange	609-1011-ND	1.19	.68	.56	10029449-002TLF

† Cut Tape ‡ Tape and Reel

Features:

- Meets HDMI spec1.1
- Metal shield for better EMI
- Speed to 5Gpbs Uncompressed Single Transmit Rate
- Backward Compatible with DVI
- Low Impedance Mismatch
- Simple and Flexible Design
- Type A

Fig. 1

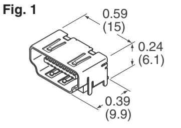

Fig. 2

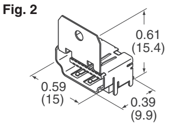

Power Card Edge Connectors

The Power Card Edge connector is a cost-effective connector system that can be used for DC power output from embedded AC/DC power supplies or for power distribution between boards within an enclosure. The connectors' low profiles are ideal for use in enterprise data or communications equipment.

Features: • One-piece card edge design provides cost-effective power delivery with capacity for up to 7A per power contact • Low-profile design helps maximize airflow for system cooling

Fig.	Circuit Size	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	50	FCI Part No.
1	64	87.86	609-2863-ND	6.63	4.59	4.33	10046971-001LF
	70	95.50	609-2859-ND	4.76	2.86	2.70	10046971-003LF
2	56	—	609-2860-ND	10.84	7.07	6.72	10035388-500LF
3	64	—	609-2861-ND	7.29	4.96	4.76	10053363-200LF
4	38	—	609-2862-ND	6.46	3.73	3.51	10034908-001LF

Fig. 1

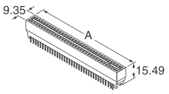

Fig. 2

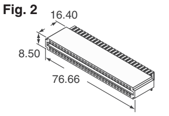

Fig. 3

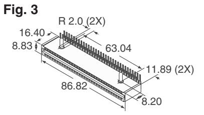

Fig. 4

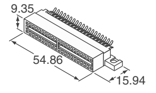

Power Edge™ Connector

Features: • End-to-end stackable for card edge requirements up to 203.2mm (8") in length • Foot print compatible and end-to-end stackable with competing connectors **Specifications:** • Segment Spacing: 12.90mm (.508") • Current (max): 40A @ 50V • Voltage (max): 250V • Flammability: UL 94V-0 • Temperature Range: -40°C ~ 105°C • UL File Number: E29179

No. of Contacts	Seg-ments	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
4	2	26.8	WM19100-ND	7.59	6.96	5.57	45719-0007
6	3	39.7	WM19101-ND	11.41	10.46	8.37	45719-0008
8	4	52.6	WM19102-ND	15.18	13.92	11.14	45719-0009

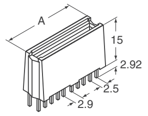

PCI Express Edge Card Connectors

Features: • **Housing Material:** Nylon 4/6 • **Housing Color:** Black • **Terminal Material:** PhBr • **Contact Plating:** 30µ" gold • **Soldertail Plating:** 100µ" minimum tin over 50µ" nickel overall

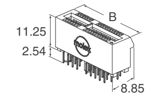

Circuit Size	Dim. B (mm)	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
36	25	WM9000-ND	1.46	1.34	1.22	87715-9006
64	39	WM9001-ND	2.12	1.95	1.77	87715-9106
98	56	WM9002-ND	3.44	3.16	2.87	87715-9206
164	89	WM9003-ND	5.03	4.61	4.19	87715-9306

0.80mm Hi-Speed Sockets

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** BeCu • **Plating:** Au or Sn over 50µ" (1.27µm) Ni • **Current Rating:** 3.1A @ 30°C Temperature Rise • **Operating Temperature:** -55°C ~ 125°C • **Card Insertion Depth:** (3.15mm) .125" nominal • **Mates with:** 1.6mm thick cards

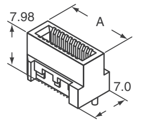

No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	Samtec Part No.
20	15.8	SAM8079-ND	8.06	6.05	HSEC8-110-01-SM-DV-A
40	23.8	SAM8080-ND	9.38	7.04	HSEC8-120-01-SM-DV-A
60	31.8	SAM8081-ND	9.75	7.42	HSEC8-130-01-SM-DV-A
80	39.8	SAM8082-ND	11.13	8.47	HSEC8-140-01-SM-DV-A
100	47.8	SAM8083-ND	12.35	9.50	HSEC8-150-01-SM-DV-A
120	55.8	SAM8084-ND	13.31	10.47	HSEC8-160-01-SM-DV-A

1mm Mini Edge-Card Sockets

Specifications: • **Insulator Material:** Black Liquid Crystal Polymer • **Contact Material:** BeCu • **Plating:** Au or Sn over 50µ" (1.27µm) Ni • **Current Rating:** 2A @ 80°C Ambient • **Operating Temperature:** -55°C ~ 125°C • **Insertion Depth:** (5.84mm) .230" to (8.13mm) .320" • **Voltage Rating:** 300VAC • **Mates with:** (1.60mm) .062" card

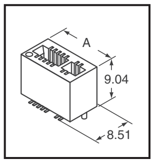

No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	Samtec Part No.
10	9.54	SAM8115-ND	6.60	4.89	MEC1-105-02-S-D-A
16	12.54	SAM8116-ND	7.03	5.20	MEC1-108-02-S-D-A
40	24.54	SAM8117-ND	8.30	6.23	MEC1-120-02-S-D-A
60	34.54	SAM8118-ND	8.98	6.74	MEC1-130-02-S-D-A
80	44.54	SAM8119-ND	9.82	7.48	MEC1-140-02-S-D-A
100	54.54	SAM8120-ND	11.13	8.47	MEC1-150-02-S-D-A
120	64.54	SAM8121-ND	11.99	9.23	MEC1-160-02-S-D-A
140	74.54	SAM8122-ND	13.28	10.21	MEC1-170-02-S-D-A

SULLINS Edgecard Connectors

CONNECTOR SOLUTIONS

Bi-Level — High Temperature 150°C

Specifications: • **Operating Temperature:** -65°C ~ 150°C • **Insulator:** PPS/Beryllium Copper • **Contacts:** Selective gold • **Contact Plating:** Nickel underplate • **UL File Number:** E64287, UL94V-0 Approved • **Termination Plating:** Tin

RoHS COMPLIANT

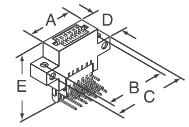

Pos./	Dimensions (Inches)					Digi-Key	Price Each			Sullins
Cont.	A	B	C	D	E	Part No.	1	10	100	Part No.
Right Angle, .050" Contact Centers										
10	0.810	1.125	1.385	.250	1.195	S7155-ND	23.63	18.75	13.13	ACB10DKBS
12	0.910	1.225	1.485	.250	1.195	S7156-ND	28.35	22.50	15.75	ACB12DKBS
24	1.510	1.825	2.085	.250	1.195	S7157-ND	56.70	45.00	31.50	ACB24DKBS
30	1.810	2.125	2.385	.250	1.195	S7158-ND	70.88	56.25	39.38	ACB30DKBS
34	2.010	2.325	2.585	.250	1.195	S7159-ND	80.33	63.75	44.63	ACB34DKBS
36	2.110	2.425	2.685	.250	1.195	S7160-ND	85.05	67.50	47.25	ACB36DKBS
40	2.310	2.625	2.885	.250	1.195	S7161-ND	94.50	75.00	52.50	ACB40DKBS
44	2.510	2.825	3.085	.250	1.195	S7162-ND	103.95	82.50	57.75	ACB44DKBS
50	2.810	3.125	3.385	.250	1.195	S7163-ND	118.13	93.75	65.63	ACB50DKBS
56	3.110	3.425	3.685	.250	1.195	S7164-ND	132.30	105.00	73.50	ACB56DKBS
60	3.310	3.625	3.885	.250	1.195	S7165-ND	141.75	112.50	78.75	ACB60DKBS
62	3.410	3.725	3.985	.250	1.195	S7166-ND	146.48	116.25	81.38	ACB62DKBS
72	3.910	4.225	4.485	.250	1.195	S7167-ND	170.10	135.00	94.50	ACB72DKBS
80	4.310	4.625	4.885	.250	1.195	S7168-ND	189.00	150.00	105.00	ACB80DKBS
86	4.610	4.925	5.185	.250	1.195	S7169-ND	203.18	161.25	112.88	ACB86DKBS
90	4.810	5.125	5.385	.250	1.195	S7170-ND	212.63	168.75	118.13	ACB90DKBS
90	4.810	5.125	5.385	.250	1.195	S7171-ND	212.63	168.75	118.13	ACB90DKBS-S1075

Press Fit

RoHS COMPLIANT

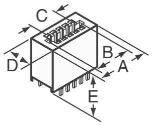

Specifications:
- **Operating Temperature:** -65°C ~ 125°C
- **Insulator:** PBT/Phosphor Bronze
- **Contacts:** Selective gold
- **Contact Plating:** Nickel underplate
- **UL File Number:** E64287, UL94V-0 Approved
- **Termination Plating:** Tin

Pos./	Dimensions (Inches)					Digi-Key	Price Each			Sullins
Cont.	A	B	C	D	E	Part No.	1	10	100	Part No.
Low Profile, .025" Square Post, .200" Row Spacing										
5/10	0.756	0.600	0.400	.370	.550	S7264-ND	5.58	4.43	3.10	ECC05DJBN
6/12	0.856	0.700	0.500	.370	.550	S7265-ND	5.76	4.58	3.21	ECC06DJBN
10/20	1.256	1.100	0.900	.370	.550	S7266-ND	6.87	5.45	3.82	ECC10DJBN
12/24	1.456	1.300	1.100	.370	.550	S7267-ND	7.34	5.83	4.08	ECC12DJBN
15/30	1.756	1.600	1.400	.370	.550	S7268-ND	8.00	6.35	4.45	ECC15DJBN
18/36	2.056	1.900	1.700	.370	.550	S7269-ND	8.69	6.90	4.83	ECC18DJBN
20/40	2.256	2.100	1.900	.370	.550	S7270-ND	9.10	7.23	5.06	ECC20DJBN
22/44	2.456	2.300	2.100	.370	.550	S7271-ND	9.58	7.60	5.32	ECC22DJBN
25/50	2.756	2.600	2.400	.370	.550	S7272-ND	10.27	8.15	5.71	ECC25DJBN
28/56	3.056	2.900	2.700	.370	.550	S7273-ND	10.93	8.68	6.08	ECC28DJBN
30/60	3.256	3.100	2.900	.370	.550	S7274-ND	11.34	9.00	6.30	ECC30DJBN
35/70	3.756	3.600	3.400	.370	.550	S7275-ND	12.51	9.93	6.95	ECC35DJBN
36/72	3.856	3.700	3.500	.370	.550	S7276-ND	12.69	10.08	7.06	ECC36DJBN
40/80	4.256	4.100	3.900	.370	.550	S7277-ND	13.58	10.78	7.55	ECC40DJBN
43/86	4.556	4.400	4.200	.370	.550	S7278-ND	14.27	11.33	7.93	ECC43DJBN
50/100	5.256	5.100	4.900	.370	.550	S7279-ND	16.19	12.85	9.00	ECC50DJBN
60/120	6.256	6.100	5.900	.370	.550	S7280-ND	18.43	14.63	10.24	ECC60DJBN
High Profile, .025" Square Post, .200" Row Spacing										
5/10	0.756	0.600	0.400	.370	.610	S7247-ND	5.58	4.43	3.10	ECC05DJWN
6/12	0.856	0.700	0.500	.370	.610	S7248-ND	5.76	4.58	3.21	ECC06DJWN
10/20	1.256	1.100	0.900	.370	.610	S7249-ND	6.87	5.45	3.82	ECC10DJWN
12/24	1.456	1.300	1.100	.370	.610	S7250-ND	7.34	5.83	4.08	ECC12DJWN
15/30	1.756	1.600	1.400	.370	.610	S7251-ND	8.00	6.35	4.45	ECC15DJWN
18/36	2.056	1.900	1.700	.370	.610	S7252-ND	8.69	6.90	4.83	ECC18DJWN
20/40	2.256	2.100	1.900	.370	.610	S7253-ND	9.10	7.23	5.06	ECC20DJWN
22/44	2.456	2.300	2.100	.370	.610	S7254-ND	9.58	7.60	5.32	ECC22DJWN
25/50	2.756	2.600	2.400	.370	.610	S7255-ND	10.27	8.15	5.71	ECC25DJWN
28/56	3.056	2.900	2.700	.370	.610	S7256-ND	10.93	8.68	6.08	ECC28DJWN
30/60	3.256	3.100	2.900	.370	.610	S7257-ND	11.34	9.00	6.30	ECC30DJWN
35/70	3.756	3.600	3.400	.370	.610	S7258-ND	12.51	9.93	6.95	ECC35DJWN
36/72	3.856	3.700	3.500	.370	.610	S7259-ND	12.69	10.08	7.06	ECC36DJWN
40/80	4.256	4.100	3.900	.370	.610	S7260-ND	13.58	10.78	7.55	ECC40DJWN
43/86	4.556	4.400	4.200	.370	.610	S7261-ND	14.27	11.33	7.93	ECC43DJWN
50/100	5.256	5.100	4.900	.370	.610	S7262-ND	16.19	12.85	9.00	ECC50DJWN
60/120	6.256	6.100	5.900	.370	.610	S7263-ND	18.43	14.63	10.24	ECC60DJWN

Straight

Materials:

• **Insulator:** Glass filled thermoplastic polyester PBT (Standard) UL 94V-0 Approved. For 1mm and .050" spacing parts, it will be "PPS" and for all others it will be "PBT" • **Contacts:** Phosphor Bronze (Standard) • **Contact Plating:** Gold over Nickel • **UL File Number:** E64287 • **Termination Plating:** Tin

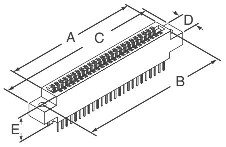

Fig. 1 — Staggered Dip

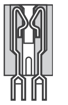

Fig. 2 — Dip Solder

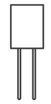

Fig. 3 — Eyelet

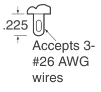

Fig. 4 — Surface Mount

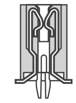

Fig. 5 — Card Extender

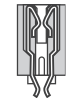

Pos./	Dimensions (Inches)					Digi-Key	Price Each			Sullins
Cont.	A	B	C	D	E	Part No.	1	10	100	Part No.
High Profile										
Fig. 1 — Peripheral Component Interconnect (PCI) .050" Contact Centers										
42/49	4.890	5.176	5.490	.370	.610	S09119-578-ND	16.38	13.00	9.10	RZB91DCHN-S578

Pos./	Dimensions (Inches)					Digi-Key	Price Each			Sullins
Cont.	A	B	C	D	E	Part No.	1	10	100	Part No.
Fig. 1 — 1mm Contact Centers										
5/10	0.507	0.793	1.107	.370	.610	S3149-ND	13.48	10.70	6.42	RZE05DHHN
15/30	0.901	1.187	1.501	.370	.610	S3151-ND	15.97	12.68	7.61	RZE15DHHN
20/40	1.098	1.384	1.698	.370	.610	S3152-ND	17.14	13.60	8.16	RZE20DHHN
25/50	1.295	1.581	1.895	.370	.610	S3153-ND	18.43	14.63	8.78	RZE25DHHN
30/60	1.492	1.778	2.092	.370	.610	S3154-ND	19.72	15.65	9.39	RZE30DHHN
35/70	1.689	1.975	2.289	.370	.610	S3155-ND	21.01	16.68	10.01	RZE35DHHN
45/90	2.082	2.368	2.682	.370	.610	S3157-ND	23.50	18.65	11.19	RZE45DHHN
50/100	2.279	2.565	2.879	.370	.610	S3158-ND	24.79	19.68	11.81	RZE50DHHN
Fig. 1 — .050" High Speed										
73/219	—	—	4.250	.465	.613	S3282-ND	20.85	16.55	9.93	RPWB073GKHR-T621
80/240	—	—	4.600	.465	.613	S3283-ND	26.05	20.68	12.41	RPWB080GKHR-T621
90/270	—	—	5.100	.465	.613	S3284-ND	36.92	29.30	17.58	RPWB090GKHR-T621
100/300	—	—	5.600	.465	.613	S3285-ND	49.23	39.08	23.45	RPWB110GKHR-T621
Fig. 1 — .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.610	S3364-ND◆	13.39	10.63	7.44	RBB06DHHN
10/20	0.740	1.026	1.340	.370	.610	S3371-ND◆	14.33	11.38	6.83	RBB10DHHN
13/26	0.890	1.176	1.490	.370	.610	S3120-ND	11.25	8.93	5.36	RZB13DHHN
13/26	0.890	1.176	1.490	.370	.610	S3373-ND◆	15.12	12.00	7.20	RBB13DHHN
15/30	0.990	1.276	1.590	.370	.610	S3121-ND	11.53	9.15	5.49	RZB15DHHN
15/30	0.990	1.276	1.590	.370	.610	S3375-ND◆	12.88	10.23	6.14	RBB15DHHN
20/40	1.240	1.526	1.840	.370	.610	S3378-ND◆	16.88	13.40	8.04	RBB20DHHN
22/44	1.340	1.626	1.940	.370	.610	S3123-ND	12.35	9.80	5.88	RZB22DHHN
25/50	1.490	1.776	2.090	.370	.610	S3124-ND	12.66	10.05	6.03	RZB25DHHN
25/50	1.490	1.776	2.090	.370	.610	S3380-ND◆	18.18	14.43	8.66	RBB25DHHN
30/60	1.740	2.026	2.340	.370	.610	S3383-ND◆	19.34	15.35	9.21	RBB30DHHN
34/68	1.940	2.226	2.540	.370	.610	S3126-ND	13.80	10.95	6.57	RZB34DHHN
34/68	1.940	2.226	2.540	.370	.610	S3386-ND◆	20.41	16.20	9.72	RBB34DHHN
35/70	1.990	2.276	2.590	.370	.610	S3127-ND	13.89	11.03	6.62	RZB35DHHN
35/70	1.990	2.276	2.590	.370	.610	S3388-ND◆	20.63	16.38	9.83	RBB35DHHN
40/80	2.240	2.526	2.840	.370	.610	S3389-ND◆	21.92	17.40	10.44	RBB40DHHN
45/90	2.490	2.776	3.090	.370	.610	S3129-ND	15.03	11.93	7.16	RZB45DHHN
45/90	2.490	2.776	3.090	.370	.610	S3391-ND◆	23.18	18.40	11.04	RBB45DHHN
50/100	2.740	3.026	3.340	.370	.610	S3130-ND	15.66	12.43	7.46	RZB50DHHN
60/120	3.240	3.526	3.840	.370	.610	S3394-ND◆	26.93	21.38	12.83	RBB60DHHN
64/128	3.440	3.726	4.040	.370	.610	S3397-ND◆	28.00	22.23	13.34	RBB64DHHN
75/150	3.990	4.276	4.590	.370	.610	S3133-ND	18.62	14.78	8.87	RZB75DHHN
75/150	3.990	4.276	4.590	.370	.610	S3399-ND◆	30.78	24.43	14.66	RBB75DHHN
80/160	4.240	4.526	4.840	.370	.610	S3400-ND◆	32.07	25.45	15.27	RBB80DHHN
85/170	4.490	4.776	5.090	.370	.610	S3135-ND	19.85	15.75	9.45	RZB85DHHN
95/190	4.990	5.276	5.590	.370	.610	S3136-ND	20.98	16.65	9.99	RZB95DHHN
100/200	5.240	5.526	5.840	.370	.610	S3137-ND	21.58	17.13	10.28	RZB100DHHN
100/200	5.240	5.526	5.840	.370	.610	S3366-ND◆	37.11	29.45	17.67	RBB100DHHN
105/210	5.490	5.776	6.090	.370	.610	S3138-ND	22.18	17.60	10.56	RZB105DHHN
108/216	5.640	5.926	6.240	.370	.610	S3139-ND	22.49	17.85	10.71	RZB108DHHN
110/220	5.740	6.026	6.340	.370	.610	S3140-ND	22.81	18.10	10.86	RZB110DHHN
120/240	6.240	6.526	6.840	.370	.610	S3141-ND	24.03	19.08	11.45	RZB120DHHN
Fig. 1 — High Temperature, 150°C, .050" Contact Centers — RoHS Compliant										
10/20	0.740	1.026	1.340	.370	.610	S7140-ND	12.57	9.98	6.99	ACB10DHHD
35/70	1.990	2.276	2.590	.370	.610	S7141-ND	23.15	18.38	12.87	ACB35DHHD
40/80	2.240	2.526	2.840	.370	.610	S7142-ND	25.29	20.08	14.06	ACB40DHHD
60/120	3.240	3.526	3.840	.370	.610	S7143-ND	33.74	26.78	18.75	ACB60DHHD
80/160	4.240	4.526	4.840	.370	.610	S7144-ND	42.27	33.55	23.49	ACB80DHHD
105/210	5.490	5.776	6.090	.370	.610	S7145-ND	52.86	41.95	29.37	ACB105DHHD
106/212	5.740	6.026	6.340	.370	.610	S7146-ND	53.27	42.28	29.60	ACB106DHHD-S621
Fig. 2 — High Temperature, 150°C, .100" Contact Centers — RoHS Compliant										
30/60	3.260	3.575	3.835	.400	.610	S7177-ND‡	34.27	27.20	19.04	ACC30DKMH-S1191
70/140	7.260	7.575	7.835	.400	.610	S7176-ND‡	61.49	48.80	34.16	ACC70DKMH-S1191
30/60	3.260	3.575	3.835	.400	.610	S7175-ND‡	34.27	27.20	19.04	ACC30DKSH-S1191
70/140	7.260	7.575	7.835	.400	.610	S7174-ND‡	61.49	48.80	34.16	ACC70DKSH-S1191
Fig. 2 — .200" Row Spacing, .100" Contact Centers — RoHS Compliant										
6/12	0.860	1.175	1.435	.370	.610	S3293-ND	2.61	2.08	1.46	EBC06DCWN
10/20	1.260	1.575	1.835	.370	.610	S3299-ND	3.43	2.73	1.91	EBC10DCWN
12/24	1.460	1.775	2.035	.370	.610	S3304-ND	3.75	2.98	2.09	EBC12DCWN
15/30	1.760	2.075	2.335	.370	.610	S3305-ND	4.69	3.73	2.61	EBC15DCWN
18/36	2.060	2.375	2.635	.370	.610	S3310-ND	5.07	4.03	2.82	EBC18DCWN-S371
25/50	2.760	3.075	3.335	.370	.610	S3320-ND	6.17	4.90	3.43	EBC25DCWN
25/50	2.760	3.075	3.335	.370	.610	S3319-ND	6.17	4.90	3.43	EBC25DCWH
10/20	1.260	1.575	1.835	.370	.610	S3298-ND★	5.83	4.63	3.24	EBC10DCMH
Fig. 2 — .250" Row Spacing, .125" Contact Centers — RoHS Compliant										
50/100	6.535	6.795	7.055	.370	.610	S3288-ND	14.93	11.85	8.30	EBA50DCSD
Fig. 2 — .200" Row Spacing, .156" Contact Centers										
6/12	1.221	1.534	1.784	.370	.610	S3332-ND◆	13.48	10.70	7.49	EBM06DCWN
22/44	3.717	4.030	4.280	.370	.610	S3349-ND◆	17.07	13.55	9.49	EBM22DCWH
36/72	5.901	6.214	6.464	.370	.610	S5366-ND	6.33	5.03	3.52	EZM36DCWN
36/72	5.901	6.214	6.464	.370	.610	S3359-ND◆	22.21	17.63	12.34	EBM36DCWN
43/86	6.993	7.306	7.556	.370	.610	S3362-ND◆	24.22	19.23	13.46	EBM43DCTN
Fig. 4 — 1mm Contact Centers										
10/20	0.704	0.990	1.304	.370	.610	S3233-ND	14.68	11.65	6.99	RZE10DHFR
15/30	0.901	1.187	1.501	.370	.610	S3234-ND	15.97	12.68	7.61	RZE15DHFR
20/40	1.098	1.384	1.698	.370	.610	S3235-ND	17.14	13.60	8.16	RZE20DHFR
25/50	1.295	1.581	1.895	.370	.610	S3236-ND	18.43	14.63	8.78	RZE25DHFR
30/60	1.492	1.778	2.092	.370	.610	S3237-ND	19.72	15.65	9.39	RZE30DHFR
35/70	1.689	1.975	2.289	.370	.610	S3238-ND	21.01	16.68	10.01	RZE35DHFR
40/80	1.885	2.171	2.485	.370	.610	S3239-ND	22.30	17.70	10.62	RZE40DHFR
45/90	2.082	2.368	2.682	.370	.610	S3240-ND	23.50	18.65	11.19	RZE45DHFR
50/100	2.279	2.565	2.879	.370	.610	S3241-ND	24.79	19.68	11.81	RZE50DHFR
Fig. 4 — .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.610	S3363-ND◆	17.01	13.50	8.10	RBB06DHFR
10/20	0.740	1.026	1.340	.370	.610	S3205-ND	10.93	8.68	5.21	RZB10DHFR
10/20	0.740	1.026	1.340	.370	.610	S3370-ND◆	17.89	14.20	8.52	RBB10DHFR

◆ ***RoHS Compliant*** § Card Extender ‡ .093" PCB ★ Wire Wrap

(Continued)

SULLINS
CONNECTOR SOLUTIONS

Edgecard Connectors — Straight *(Cont.)*

Pos./	Dimensions (Inches)					Digi-Key	Price Each			Sullins
Cont.	A	B	C	D	E	Part No.	1	10	100	Part No.
13/26	0.890	1.176	1.490	.370	.610	S3206-ND	11.25	8.93	5.36	RZB13DHFR
15/30	0.990	1.276	1.590	.370	.610	S3207-ND	11.53	9.15	5.49	RZB15DHFR
15/30	0.990	1.276	1.590	.370	.610	S3374-ND◆	19.06	15.13	9.08	RBB15DHFR
20/40	1.240	1.526	1.840	.370	.610	S3208-ND	12.06	9.58	5.75	RZB20DHFR
22/44	1.340	1.626	1.940	.370	.610	S3209-ND	12.35	9.80	5.88	RZB22DHFR
25/50	1.490	1.776	2.090	.370	.610	S3379-ND◆	21.42	17.00	10.20	RBB25DHFR
30/60	1.740	2.026	2.340	.370	.610	S3382-ND◆	22.52	17.88	10.73	RBB30DHFR
34/68	1.940	2.226	2.540	.370	.610	S3212-ND	13.80	10.95	6.57	RZB34DHFR
35/70	1.990	2.276	2.590	.370	.610	S3213-ND	13.89	11.03	6.62	RZB35DHFR
35/70	1.990	2.276	2.590	.370	.610	S3387-ND◆	23.69	18.80	11.28	RBB35DHFR
40/80	2.240	2.526	2.840	.370	.610	S3214-ND	14.52	11.53	6.92	RZB40DHFR
45/90	2.490	2.776	3.090	.370	.610	S3215-ND	15.03	11.93	7.16	RZB45DHFR
50/100	2.740	3.026	3.340	.370	.610	S3216-ND	15.66	12.43	7.46	RZB50DHFR
60/120	3.240	3.526	3.840	.370	.610	S3217-ND	16.85	13.38	8.03	RZB60DHFR
64/128	3.440	3.726	4.040	.370	.610	S3218-ND	17.29	13.73	8.24	RZB64DHFR
64/128	3.440	3.726	4.040	.370	.610	S3396-ND◆	30.46	24.18	14.51	RBB64DHFR
75/150	3.990	4.276	4.590	.370	.610	S3219-ND	18.62	14.78	8.87	RZB75DHFR
80/160	4.240	4.526	4.840	.370	.610	S3220-ND	19.22	15.25	9.15	RZB80DHFR
85/170	4.490	4.776	5.090	.370	.610	S3221-ND	19.85	15.75	9.45	RZB85DHFR
95/190	4.990	5.276	5.590	.370	.610	S3222-ND	20.98	16.65	9.99	RZB95DHFR
100/200	5.240	5.526	5.840	.370	.610	S3223-ND	21.58	17.13	10.28	RZB100DHFR
105/210	5.490	5.776	6.090	.370	.610	S3224-ND	22.18	17.60	10.56	RZB105DHFR
105/210	5.490	5.776	6.090	.370	.610	S3367-ND◆	40.01	31.75	19.05	RBB105DHFR
108/216	5.640	5.926	6.240	.370	.610	S3225-ND	22.49	17.85	10.71	RZB108DHFR
120/240	6.240	6.526	6.840	.370	.610	S3227-ND	24.03	19.08	11.45	RZB120DHFR
Fig. 5 — 1mm Contact Centers										
5/10	0.507	0.793	1.107	.370	.610	S3193-ND	12.73	10.10	6.06	RZE05DHRN
10/20	0.704	0.990	1.304	.370	.610	S3194-ND	13.89	11.03	6.62	RZE10DHRN
15/30	0.901	1.187	1.501	.370	.610	S3195-ND	15.18	12.05	7.23	RZE15DHRN
20/40	1.098	1.384	1.698	.370	.610	S3196-ND	16.38	13.00	7.80	RZE20DHRN
25/50	1.295	1.581	1.895	.370	.610	S3197-ND	17.67	14.03	8.42	RZE25DHRN
30/60	1.492	1.778	2.092	.370	.610	S3198-ND	18.96	15.05	9.03	RZE30DHRN
35/70	1.689	1.975	2.289	.370	.610	S3199-ND	20.25	16.08	9.65	RZE35DHRN
45/90	2.082	2.368	2.682	.370	.610	S3201-ND	22.71	18.03	10.82	RZE45DHRN
50/100	2.279	2.565	2.879	.370	.610	S3202-ND	24.03	19.08	11.45	RZE50DHRN
50/100	2.279	2.565	2.879	.370	.610	S3403-ND◆	36.57	29.03	17.42	RBE50DHRN
Fig. 5 — .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.610	S3365-ND◆	12.73	10.10	6.06	RBB06DHRN
10/20	0.740	1.026	1.340	.370	.610	S3165-ND	10.33	8.20	4.92	RZB10DHRN
10/20	0.740	1.026	1.340	.370	.610	S3372-ND◆	13.67	10.85	6.51	RBB10DHRN
13/26	0.890	1.176	1.490	.370	.610	S3166-ND	10.65	8.45	5.07	RZB13DHRN
15/30	0.990	1.276	1.590	.370	.610	S3376-ND◆	14.96	11.88	7.13	RBB15DHRN
20/40	1.240	1.526	1.840	.370	.610	S3168-ND	11.47	9.10	5.46	RZB20DHRN
22/44	1.340	1.626	1.940	.370	.610	S3169-ND	11.78	9.35	5.61	RZB22DHRN
25/50	1.490	1.776	2.090	.370	.610	S3381-ND◆	17.51	13.90	8.34	RBB25DHRN
30/60	1.740	2.026	2.340	.370	.610	S3171-ND	12.69	10.08	6.05	RZB30DHRN
30/60	1.740	2.026	2.340	.370	.610	S3384-ND◆	18.71	14.85	8.91	RBB30DHRN
34/68	1.940	2.226	2.540	.370	.610	S3172-ND	13.20	10.48	6.29	RZB34DHRN
35/70	1.990	2.276	2.590	.370	.610	S3173-ND	13.32	10.58	6.35	RZB35DHRN
40/80	2.240	2.526	2.840	.370	.610	S3174-ND	13.92	11.05	6.63	RZB40DHRN
40/80	2.240	2.526	2.840	.370	.610	S3390-ND◆	21.26	16.88	10.13	RBB40DHRN
45/90	2.490	2.776	3.090	.370	.610	S3175-ND	14.46	11.48	6.89	RZB45DHRN
50/100	2.740	3.026	3.340	.370	.610	S3176-ND	15.06	11.95	7.17	RZB50DHRN
60/120	3.240	3.526	3.840	.370	.610	S3177-ND	16.29	12.93	7.76	RZB60DHRN
64/128	3.440	3.726	4.040	.370	.610	S3178-ND	16.70	13.25	7.95	RZB64DHRN
64/128	3.440	3.726	4.040	.370	.610	S3398-ND◆	27.34	21.70	13.02	RBB64DHRN
75/150	3.990	4.276	4.590	.370	.610	S3179-ND	18.02	14.30	8.58	RZB75DHRN
80/160	4.240	4.526	4.840	.370	.610	S3180-ND	18.65	14.80	8.88	RZB80DHRN
85/170	4.490	4.776	5.090	.370	.610	S3181-ND	19.25	15.28	9.17	RZB85DHRN
85/170	4.490	4.776	5.090	.370	.610	S3401-ND◆	32.60	25.88	15.53	RBB85DHRN
95/190	4.990	5.276	5.590	.370	.610	S3182-ND	20.38	16.18	9.71	RZB95DHRN
100/200	5.240	5.526	5.840	.370	.610	S3183-ND	20.98	16.65	9.99	RZB100DHRN
105/210	5.490	5.776	6.090	.370	.610	S3184-ND	21.61	17.15	10.29	RZB105DHRN
105/210	5.490	5.776	6.090	.370	.610	S3368-ND◆	37.74	29.95	17.97	RBB105DHRN
108/216	5.640	5.926	6.240	.370	.610	S3185-ND	21.92	17.40	10.44	RZB108DHRN
110/220	5.740	6.026	6.340	.370	.610	S3186-ND	22.21	17.63	10.58	RZB110DHRN
120/240	6.240	6.526	6.840	.370	.610	S3187-ND	23.44	18.60	11.16	RZB120DHRN
Fig. 5 — High Temperature, 150°C, .050" Contact Centers — RoHS Compliant										
10/20	0.740	1.026	1.340	.370	.610	S7147-ND	12.00	9.53	6.67	ACB10DHRD
35/70	1.990	2.276	2.590	.370	.610	S7148-ND	22.55	17.90	12.53	ACB35DHRD
60/120	3.240	3.526	3.840	.370	.610	S7149-ND	33.14	26.30	18.41	ACB60DHRD
85/170	4.490	4.776	5.090	.370	.610	S7150-ND	43.72	34.70	24.29	ACB85DHRD
90/180	4.740	5.026	5.340	.370	.610	S7151-ND	45.86	36.40	25.48	ACB90DHRD
91/182	4.890	5.176	5.490	.370	.610	S7152-ND	46.27	36.73	25.71	ACB91DHRD-S621
92/184	5.040	5.326	5.640	.370	.610	S7153-ND	46.78	37.13	25.99	ACB92DHRD-S329
106/212	5.740	6.026	6.340	.370	.610	S7154-ND	52.67	41.80	29.26	ACB106DHRD-S621
Fig. 5 — High Temperature, 150°C, .100" Contact Centers — RoHS Compliant										
30/60	3.260	3.575	3.835	.400	.610	S7181-ND‡	35.56	28.23	19.76	ACC30DKRH-S1191
70/140	7.260	7.575	7.835	.400	.610	S7180-ND‡	62.75	49.80	34.86	ACC70DKRH-S1191
30/60	3.260	3.575	3.835	.400	.610	S7179-ND‡	35.56	28.23	19.76	ACC30DKNH-S1191
70/140	7.260	7.575	7.835	.400	.610	S7178-ND‡	62.75	49.80	34.86	ACC70DKNH-S1191
Micro Channel Architecture (MCA) Dual .050" Contact Centers — RoHS Compliant										
60/120	3.240	3.526	3.840	.370	.610	S3392-ND	44.92	35.65	21.39	RBB60DHAS-S621
60/120	3.240	3.526	3.840	.370	.610	S3393-ND	29.48	23.40	14.04	RBB60DHFR-S621
60/120	3.240	3.526	3.840	.370	.610	S3395-ND	23.72	18.83	11.30	RBB60DHRN-S578
Peripheral Component Interconnect (PCI) Dual .050" Contact Centers										
60/120	3.340	—	—	.350	.610	S3142-ND	.76	.61	.37	TRWB060DKHN-T578
60/120	3.340	3.465	3.715	.350	.551	S3191-ND	4.38	3.48	2.09	TRWB060DKRQ-T578
60/120	3.340	—	—	.350	.610	S3144-ND	1.82	1.45	.87	TRXB060DKHN-T20
60/120	3.340	—	—	.350	.559	S3269-ND	5.56	4.41	2.65	TRWB060DKAN-T621
92/184	5.040	5.326	5.640	.370	.610	S3267-ND	51.85	41.15	24.69	RZB92DHAS-S250
92/184	5.040	—	—	.370	.610	S3229-ND	20.66	16.40	9.84	RZB92DHFR-S250
92/184	5.040	—	—	.350	.559	S3270-ND	6.77	5.38	3.23	TRWB092DKAN-T250
92/184	5.040	5.326	5.640	.370	.610	S3268-ND	51.85	41.15	24.69	RZB92DHAS-S329
92/184	5.040	—	—	.370	.610	S3230-ND	20.66	16.40	9.84	RZB92DHFR-S329
92/184	5.040	—	—	.350	.559	S3271-ND	6.77	5.38	3.23	TRWB092DKAN-T329
92/184	5.040	—	—	.370	.610	S3189-ND	20.07	15.93	9.56	RZB92DHRN-S378
92/184	5.040	—	—	.350	.610	S3145-ND	5.99	4.75	2.85	TRWB092DKHN-T378
92/184	5.040	—	—	.350	.551	S3192-ND	7.28	5.78	3.47	RPWB092DKRQ-T378
92/184	5.040	—	—	.350	.610	S3146-ND	3.15	2.50	1.50	TRWB092DKHN-T20
92/184	5.040	—	—	.370	.610	S3190-ND	20.07	15.93	9.56	RZB92DHRN-S330
92/184	5.040	—	—	.350	.610	S3147-ND	5.99	4.75	2.85	TRWB092DKHN-T330
92/184	5.040	—	—	.350	.610	S3148-ND	3.31	2.63	1.58	TRWB092DKHN-T26
Low Profile										
Fig. 2 — High Temperature, 150°C, .140" Row Spacing, .100" Contact Centers — RoHS Compliant										
17/34	1.975	2.275	2.575	.330	.431	S7191-ND	15.12	12.00	8.40	ACC17DRTH
18/36	2.075	2.375	2.675	.330	.431	S7192-ND	15.78	12.53	8.77	ACC18DRTH
18/36	2.075	2.375	2.675	.330	.431	S7218-ND§	16.92	13.43	9.40	ACC18DRTH-S13
28/56	3.075	3.375	3.675	.330	.431	S7193-ND	21.86	17.35	12.15	ACC28DRTH
28/56	3.075	3.375	3.675	.330	.431	S7219-ND§	22.96	18.23	12.76	ACC28DRTH-S13
31/62	3.375	3.675	3.975	.330	.431	S7194-ND	23.91	18.98	13.29	ACC31DRTH
50/100	5.275	5.575	5.875	.400	.431	S7195-ND	35.28	28.00	19.60	ACC50DRTH
60/120	6.275	6.575	6.875	.400	.431	S7220-ND§	42.37	33.63	23.54	ACC60DRTH-S13
Fig. 2 — High Temperature, 150°C, .200" Row Spacing, .100" Contact Centers — RoHS Compliant										
12/24	1.475	1.775	2.075	.330	.431	S7196-ND	11.88	9.43	6.60	ACC12DRXH
15/30	1.775	2.075	2.375	.330	.431	S7197-ND	13.73	10.90	7.63	ACC15DRXH
18/36	2.075	2.375	2.675	.330	.431	S7198-ND	15.59	12.38	8.67	ACC18DRXH
30/60	3.275	3.575	3.875	.330	.431	S7199-ND	22.77	18.08	12.66	ACC30DRXH
36/72	3.875	4.175	4.475	.400	.431	S7200-ND	26.71	21.20	14.84	ACC36DRXH
50/100	5.275	5.575	5.875	.400	.431	S7201-ND	35.09	27.85	19.50	ACC50DRXH
60/120	6.275	6.575	6.875	.400	.431	S7202-ND	41.04	32.58	22.81	ACC60DRXH
Fig. 2 — High Temperature, 150°C, .200" Row Spacing, .156" Contact Centers — RoHS Compliant										
15/30	2.624	2.937	3.279	.325	.431	S7207-ND	14.68	11.65	8.16	ACM15DRXH
18/36	3.092	3.405	3.747	.325	.431	S7208-ND	16.51	13.10	9.17	ACM18DRXH
Fig. 2 — High Temperature, 150°C, .140" Row Spacing, .156" Contact Centers — RoHS Compliant										
22/44	3.716	4.029	4.371	.325	.431	S7205-ND	17.80	14.13	9.89	ACM22DRKH
36/72	5.900	6.213	6.555	.438	.431	S7206-ND	26.11	20.73	14.51	ACM36DRKH
36/72	5.900	6.213	6.555	.438	.431	S7221-ND§	27.50	21.83	15.28	ACM36DRKH-S13
Fig. 2 — High Temperature, 200°C, .140" Row Spacing, .100" Contact Centers — RoHS Compliant										
6/12	0.875	1.175	1.475	.330	.431	S7231-ND	14.21	11.28	7.90	FMC06DRYH
10/20	1.275	1.575	1.875	.330	.431	S7232-ND	19.31	15.33	10.73	FMC10DRYH
13/26	1.575	1.875	2.175	.330	.431	S7233-ND	23.03	18.28	12.80	FMC13DRYH
18/36	2.075	2.375	2.675	.330	.431	S7234-ND	29.45	23.38	16.37	FMC18DRYH
50/100	5.275	5.575	5.875	.400	.431	S7235-ND	70.28	55.78	39.05	FMC50DRYH
50/100	5.275	5.575	5.875	.400	.431	S7245-ND§	71.85	57.03	39.92	FMC50DRYH-S13
Fig. 2 — .140" Row Spacing, .100" Contact Centers — RoHS Compliant										
5/10	0.775	1.075	1.375	.330	.431	S3291-ND	3.34	2.65	1.86	EBC05DRTH
10/20	1.275	1.575	1.875	.330	.431	S3302-ND	4.25	3.38	2.37	EBC10DRTH
15/30	1.775	2.075	2.375	.330	.431	S3308-ND	5.70	4.53	3.17	EBC15DRTH
20/40	2.275	2.575	2.875	.330	.431	S3314-ND	9.17	7.28	5.10	EBC20DRTH
Fig. 2 — .200" Row Spacing, .100" Contact Centers										
5/10	0.775	1.075	1.375	.330	.431	S3292-ND◆	3.12	2.48	1.74	EBC05DRXH
6/12	0.875	1.175	1.475	.330	.431	S1064-ND	2.93	2.33	1.63	EZC06DRXH
6/12	0.875	1.175	1.475	.330	.431	S3296-ND◆	4.25	3.38	2.37	EBC06DRXH
10/20	1.275	1.575	1.875	.330	.431	S3303-ND◆	4.00	3.18	2.23	EBC10DRXH
15/30	1.775	2.075	2.375	.330	.431	S3309-ND◆	5.10	4.05	2.84	EBC15DRXH
18/36	2.075	2.375	2.675	.330	.431	S3313-ND◆	15.53	12.33	8.63	EBC18DRXH
20/40	2.275	2.575	2.875	.330	.431	S3315-ND◆	6.68	5.30	3.71	EBC20DRXH
22/44	2.475	2.775	3.075	.330	.431	S3318-ND◆	8.22	6.53	4.57	EBC22DRXH
25/50	2.775	3.075	3.375	.330	.431	S3322-ND◆	7.59	6.03	4.22	EBC25DRXH
30/60	3.275	3.575	3.875	.330	.431	S3323-ND◆	8.54	6.78	4.75	EBC30DRXH
36/72	3.875	4.175	4.475	.400	.431	S3326-ND◆	21.04	16.70	11.69	EBC36DRXH
40/80	4.275	4.575	4.875	.400	.431	S3327-ND◆	12.22	9.70	6.79	EBC40DRXH
50/100	5.275	5.575	5.875	.400	.431	S3330-ND◆	12.47	9.90	6.93	EBC50DRXH
60/120	6.275	6.575	6.875	.400	.431	S3331-ND◆	27.88	22.13	15.49	EBC60DRXH
Fig. 2 — .250" Row Spacing, .125" Contact Centers — RoHS Compliant										
28/56	3.785	4.045	4.325	.330	.431	S3287-ND	7.50	5.95	4.17	EBA28DRJH
Fig. 2 — .140" Row Spacing, .156" Contact Centers — RoHS Compliant										
6/12	1.220	1.533	1.875	.325	.431	S3334-ND	13.23	10.50	7.35	EBM06DRTH
10/20	1.844	2.157	2.499	.325	.431	S3338-ND	5.58	4.43	3.10	EBM10DRTH
22/44	3.716	4.029	4.371	.325	.431	S3352-ND	7.40	5.88	4.12	EBM22DRTH
28/56	4.652	4.965	5.307	.438	.431	S3357-ND	9.73	7.73	5.41	EBM28DRTH
Fig. 2 — .200" Row Spacing, .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S5064-ND	3.84	3.05	2.14	EZM06DRXH
6/12	1.220	1.533	1.875	.325	.431	S3335-ND◆	12.69	10.08	7.06	EBM06DRXH
10/20	1.844	2.157	2.499	.325	.431	S3339-ND◆	4.38	3.48	2.44	EBM10DRXH
12/24	2.156	2.469	2.811	.325	.431	S3342-ND◆	5.01	3.98	2.79	EBM12DRXH
15/30	2.624	2.937	3.279	.325	.431	S3344-ND◆	6.08	4.83	3.38	EBM15DRXH
18/36	3.092	3.405	3.747	.325	.431	S3347-ND◆	6.65	5.28	3.70	EBM18DRXH
22/44	3.716	4.029	4.371	.325	.431	S3353-ND◆	6.71	5.33	3.73	EBM22DRXH
25/50	4.184	4.497	4.839	.325	.431	S3355-ND◆	8.00	6.35	4.45	EBM25DRXH
28/56	4.652	4.965	5.307	.438	.431	S3358-ND◆	9.48	7.53	5.27	EBM28DRXH
36/72	5.900	6.213	6.555	.438	.431	S3361-ND◆	10.40	8.25	5.78	EBM36DRXH
Fig. 3 — High Temperature, 150°C, .100" Contact Centers — RoHS Compliant										
18/36	2.075	2.375	2.675	.330	.431	S7186-ND	14.99	11.90	8.33	ACC18DREH
18/36	2.075	2.375	2.675	.330	.431	S7213-ND§	16.13	12.80	8.96	ACC18DREH-S13
22/44	2.475	2.775	3.075	.330	.431	S7187-ND	17.23	13.68	9.58	ACC22DREH
28/56	3.075	3.375	3.675	.330	.431	S7214-ND§	21.74	17.25	12.08	ACC28DREH-S13
30/60	3.275	3.575	3.875	.330	.431	S7188-ND	21.64	17.18	12.03	ACC30DREH
40/80	4.275	4.575	4.875	.400	.431	S7189-ND	27.47	21.80	15.26	ACC40DREH
43/86	4.575	4.875	5.175	.400	.431	S7190-ND	29.20	23.18	16.23	ACC43DREH
43/86	4.575	4.875	5.175	.400	.431	S7215-ND§	30.30	24.05	16.84	ACC43DREH-S13
50/100	5.275	5.575	5.875	.400	.431	S7216-ND§	34.21	27.15	19.01	ACC50DREH-S13
60/120	6.275	6.575	6.875	.400	.431	S7217-ND§	39.72	31.53	22.07	ACC60DREH-S13

◆ ***RoHS Compliant*** § Card Extender ‡ .093" PCB *(Continued)*

Edgecard Connectors — Straight *(Cont.)*

Pos./	Dimensions (Inches)					Digi-Key	Price Each			Sullins
Cont.	A	B	C	D	E	Part No.	1	10	100	Part No.
Fig. 3 — High Temperature, 150°C, .156" Contact Centers — RoHS Compliant										
15/30	2.624	2.937	3.279	.325	.431	S7209-ND	15.31	12.15	8.51	ACM15DSEH
18/36	3.092	3.405	3.747	.325	.431	S7210-ND	17.23	13.68	9.58	ACM18DSEH
22/44	3.716	4.029	4.371	.325	.431	S7211-ND	19.69	15.63	10.94	ACM22DSEH
36/72	5.900	6.213	6.555	.438	.431	S7212-ND	29.23	23.20	16.24	ACM36DSEH
36/72	5.900	6.213	6.555	.438	.431	S7222-ND§	30.62	24.30	17.01	ACM36DSEH-S13
Fig. 3 — High Temperature, 200°C, .100" Contact Centers — RoHS Compliant										
18/36	2.075	2.375	2.675	.330	.431	S7226-ND	39.66	31.48	22.04	FMC18DREH
22/44	2.475	2.775	3.075	.330	.431	S7227-ND	47.03	37.33	26.13	FMC22DREH
25/50	2.775	3.075	3.375	.330	.431	S7228-ND	52.45	41.63	29.14	FMC25DREH
35/70	3.775	4.075	4.375	.400	.431	S7229-ND	71.13	56.45	39.52	FMC35DREH
35/70	3.775	4.075	4.375	.400	.431	S7242-ND§	73.46	58.30	40.81	FMC35DREN-S13
43/86	4.575	4.875	5.175	.400	.431	S7243-ND§	87.38	69.35	48.55	FMC43DREH-S13
44/88	4.675	4.975	5.275	.400	.431	S7230-ND	87.60	69.53	48.67	FMC44DREH
60/120	6.275	6.575	6.875	.400	.431	S7244-ND§	118.41	93.98	65.79	FMC60DREH-S13
Fig. 3 — High Temperature, 200°C, .156" Contact Centers — RoHS Compliant										
15/30	2.624	2.937	3.279	.325	.431	S7236-ND	27.69	21.98	15.39	FMM15DSEH
18/36	3.092	3.405	3.747	.325	.431	S7237-ND	31.63	25.10	17.57	FMM18DSEH
18/36	3.092	3.405	3.747	.325	.431	S7246-ND§	33.20	26.35	18.45	FMM18DSEH-S13
22/44	3.716	4.029	4.371	.325	.431	S7238-ND	36.82	29.23	20.46	FMM22DSEH
28/56	4.652	4.965	5.307	.438	.431	S7239-ND	45.74	36.30	25.41	FMM28DSEH
36/72	5.900	6.213	6.555	.438	.431	S7240-ND	56.23	44.63	31.24	FMM36DSEH
43/86	6.992	7.305	7.647	.500	.431	S7241-ND	66.09	52.45	36.72	FMM43DSEH
Fig. 3 — .100" Contact Centers — RoHS Compliant										
5/10	0.775	1.075	1.375	.330	.431	S3290-ND	4.79	3.80	2.66	EBC05DREH
6/12	0.875	1.175	1.475	.330	.431	S3295-ND	12.22	9.70	6.79	EBC06DREH
10/20	1.275	1.575	1.875	.330	.431	S3301-ND	4.38	3.48	2.44	EBC10DREH
15/30	1.775	2.075	2.375	.330	.431	S3307-ND	6.99	5.55	3.89	EBC15DREH
18/36	2.075	2.375	2.675	.330	.431	S3312-ND	8.91	7.08	4.96	EBC18DREH
22/44	2.475	2.775	3.075	.330	.431	S3317-ND	17.10	13.58	9.51	EBC22DREH
25/50	2.775	3.075	3.375	.330	.431	S3321-ND	8.44	6.70	4.69	EBC25DREH
35/70	3.775	4.075	4.375	.400	.431	S3324-ND	12.92	10.25	7.18	EBC35DREH
36/72	3.875	4.175	4.475	.400	.431	S3325-ND	11.75	9.33	6.53	EBC36DREH
Fig. 3 — .156" Contact Centers — RoHS Compliant										
6/12	1.220	1.533	1.875	.325	.431	S3336-ND	5.70	4.53	3.17	EBM06DSEH
10/20	1.844	2.157	2.499	.325	.431	S3340-ND	7.91	6.28	4.40	EBM10DSEH
15/30	2.624	2.937	3.279	.325	.431	S3345-ND	16.16	12.83	8.98	EBM15DSEH
18/36	3.092	3.405	3.747	.325	.431	S3348-ND	17.17	13.63	9.54	EBM18DSEH
22/44	3.716	4.029	4.371	.325	.431	S3354-ND	18.40	14.60	10.22	EBM22DSEH
Fig. 3 — .156" Contact Centers — RoHS Compliant										
6/12	1.220	1.533	1.875	.325	.431	S3333-ND	5.32	4.23	2.96	EBM06DREH
10/20	1.844	2.157	2.499	.325	.431	S3337-ND	5.95	4.73	3.31	EBM10DREH
15/30	2.624	2.937	3.279	.325	.431	S3343-ND	9.51	7.55	5.29	EBM15DREH
18/36	3.092	3.405	3.747	.325	.431	S3346-ND	19.94	15.83	11.08	EBM18DREH
22/44	3.716	4.029	4.371	.325	.431	S3351-ND	10.30	8.18	5.73	EBM22DREH
28/56	4.652	4.965	5.307	.438	.431	S3356-ND	14.40	11.43	8.00	EBM28DREH
36/72	5.900	6.213	6.555	.438	.431	S3360-ND	29.07	23.08	16.16	EBM36DREH

◆ ***RoHS Compliant*** § Card Extender ‡ .093" PCB

Accessories

Pos./ Cont.	Description	Digi-Key Part No.	Price Each 1	10	100	Sullins Part No.
Polarizing Keys — RoHS Compliant						
—	Polarizing Key used for Low Profile (.431")	PLA-K1-ND	—	.13	.09	PLA-K1
—	Polarizing Key used for all other Profiles	PLC-K1-ND	—	.13	.09	PLC-K1
AGP Connector						
90/180	u-AGP-PRO	S3161-ND	2.27	1.80	1.08	TPWE090DKHN-TAGP
66/132	1.0mm AGP Edge Card	S3203-ND	6.11	4.85	2.91	LPWE066DKRN-TAGP
66/132	Universal AGP	S3160-ND	1.23	.98	.59	TPWE066DKHN-TUGP
Slot 1 Connector						
121/242	Slot 1 Pin connector	S3162-ND	2.90	2.30	1.38	TPWE121DKHN-T621
AT Expansion Board Connector — RoHS Compliant						
49/98	PCB Expansion Port Edge Card	S3329-ND	7.62	6.05	4.24	EBC49DCWN-S420

Polarizing Keys not available for product with .050 and 1mm contact spacing.

Right Angle

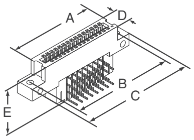

Materials:
- **Insulator:** Glass filled thermoplastic polyester PBT (Standard) UL 94V-0 Approved. For 1mm and .050" spacing parts, it will be "PPS" and for all others it will be "PBT"
- **Contacts:** Phosphor Bronze (Standard)
- **Contact Plating:** Gold over Nickel
- **UL File Number:** E64287
- **Termination Plating:** Tin

Pos./	Dimensions (Inches)					Digi-Key	Price Each			Sullins
Cont.	A	B	C	D	E	Part No.	1	10	100	Part No.
1mm Contact Centers										
5/10	0.157	0.793	1.107	.370	.360	S3272-ND	48.38	38.40	23.04	RZE05DHAS
10/20	0.354	0.990	1.304	.370	.360	S3273-ND	49.80	39.53	23.72	RZE10DHAS
15/30	0.551	1.187	1.501	.370	.360	S3274-ND	51.35	40.75	24.45	RZE15DHAS
20/40	0.748	1.384	1.698	.370	.360	S3275-ND	52.76	41.88	25.13	RZE20DHAS
25/50	0.945	1.581	1.895	.370	.360	S3276-ND	54.31	43.10	25.86	RZE25DHAS
30/60	1.142	1.778	2.092	.370	.360	S3277-ND	55.85	44.33	26.60	RZE30DHAS
35/70	1.465	1.975	2.289	.370	.360	S3278-ND	57.42	45.58	27.35	RZE35DHAS
40/80	1.535	2.171	2.485	.370	.360	S3279-ND	58.97	46.80	28.08	RZE40DHAS
45/90	1.732	2.368	2.682	.370	.360	S3280-ND	60.39	47.93	28.76	RZE45DHAS
50/100	1.929	2.565	2.879	.370	.360	S3281-ND	61.93	49.15	29.49	RZE50DHAS
.100" Row Spacing, .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.915	S3242-ND	27.56	21.88	13.13	RZB06DHAS
10/20	0.740	1.026	1.340	.370	.915	S3243-ND	28.60	22.70	13.62	RZB10DHAS
10/20	0.740	1.026	1.340	.370	.915	S3369-ND◆	23.75	18.85	11.31	RBB10DHAS
15/30	0.990	1.276	1.590	.370	.915	S3245-ND	30.05	23.85	14.31	RZB15DHAS
20/40	1.240	1.526	1.840	.370	.915	S3377-ND◆	28.00	22.23	13.34	RBB20DHAS
22/44	1.340	1.626	1.940	.370	.915	S3247-ND	32.00	25.40	15.24	RZB22DHAS
25/50	1.490	1.776	2.090	.370	.915	S3248-ND	32.79	26.03	15.62	RZB25DHAS
30/60	1.740	2.026	2.340	.370	.915	S3249-ND	34.21	27.15	16.29	RZB30DHAS
34/68	1.940	2.226	2.540	.370	.915	S3250-ND	35.37	28.08	16.85	RZB34DHAS
34/68	1.940	2.226	2.540	.370	.915	S3385-ND◆	33.96	26.95	16.17	RBB34DHAS
35/70	1.990	2.276	2.590	.370	.915	S3251-ND	35.63	28.28	16.97	RZB35DHAS
40/80	2.240	2.526	2.840	.370	.915	S3252-ND	37.08	29.43	17.66	RZB40DHAS
45/90	2.490	2.776	3.090	.370	.915	S3253-ND	38.40	30.48	18.29	RZB45DHAS
50/100	2.740	3.026	3.340	.370	.915	S3254-ND	39.82	31.60	18.96	RZB50DHAS
60/120	3.240	3.526	3.840	.370	.915	S3255-ND	42.68	33.88	20.33	RZB60DHAS
64/128	3.440	3.726	4.040	.370	.915	S3256-ND	43.72	34.70	20.82	RZB64DHAS
75/150	3.990	4.276	4.590	.370	.915	S3257-ND	46.84	37.18	22.31	RZB75DHAS
80/160	4.240	4.526	4.840	.370	.915	S3258-ND	48.26	38.30	22.98	RZB80DHAS
85/170	4.490	4.776	5.090	.370	.915	S3259-ND	49.71	39.45	23.67	RZB85DHAS
95/190	4.990	5.276	5.590	.370	.915	S3260-ND	52.45	41.63	24.98	RZB95DHAS
100/200	5.240	5.526	5.840	.370	.915	S3261-ND	53.87	42.75	25.65	RZB100DHAS
105/210	5.490	5.776	6.090	.370	.915	S3262-ND	55.31	43.90	26.34	RZB105DHAS
108/216	5.640	5.926	6.240	.370	.915	S3263-ND	56.20	44.60	26.76	RZB108DHAS
110/220	5.740	6.026	6.340	.370	.915	S3264-ND	56.73	45.03	27.02	RZB110DHAS
120/240	6.240	6.526	6.840	.370	.915	S3265-ND	59.60	47.30	28.38	RZB120DHAN
.150" Row Spacing, .100" Contact Centers — RoHS Compliant										
10/20	1.260	1.575	1.835	.370	.610	S3297-ND	13.64	10.83	7.58	EBC10DCAH
49/98	5.160	5.475	5.735	.370	.610	S3328-ND	19.28	15.30	10.71	EBC49DCAN-S605
High Temperature, 150°C, .100" Contact Centers — RoHS Compliant										
18/36	2.075	2.375	2.675	.330	.431	S7182-ND	21.70	17.23	12.06	ACC18DRAS
30/60	3.260	3.575	3.835	.400	.610	S7172-ND‡	37.20	29.53	20.67	ACC30DKEH-S1191
36/72	3.875	4.175	4.475	.400	.431	S7183-ND	36.38	28.88	20.22	ACC36DRAS
50/100	5.275	5.575	5.875	.400	.431	S7184-ND	47.57	37.75	26.43	ACC50DRAS
60/120	6.275	6.575	6.875	.400	.431	S7185-ND	55.50	44.05	30.84	ACC60DRAS
70/140	7.260	7.575	7.835	.400	.610	S7173-ND‡	66.72	52.95	37.07	ACC70DKEH-S1191
High Temperature, 150°C, .156" Contact Centers — RoHS Compliant										
12/24	2.156	2.469	2.811	.325	.431	S7203-ND	15.91	12.63	8.84	ACM12DRAS
18/36	3.092	3.405	3.747	.325	.431	S7204-ND	19.81	15.73	11.01	ACM18DRAS
High Temperature, 200°C, .100" Contact Centers — RoHS Compliant										
22/44	2.475	2.775	3.075	.330	.431	S7223-ND	41.77	33.15	23.21	FMC22DRAS
35/70	3.775	4.075	4.375	.400	.431	S7224-ND	60.80	48.25	33.78	FMC35DRAS
43/86	4.575	4.875	5.175	.400	.431	S7225-ND	72.36	57.43	40.20	FMC43DRAS
.156" Row Spacing, .100" Contact Centers — RoHS Compliant										
5/10	0.775	1.075	1.375	.330	.431	S3289-ND	5.92	4.70	3.29	EBC05DRAS
6/12	0.875	1.175	1.475	.330	.431	S3294-ND	5.73	4.55	3.19	EBC06DRAS
10/20	1.275	1.575	1.875	.330	.431	S3300-ND	5.08	4.14	3.01	EBC10DRAS
15/30	1.775	2.075	2.375	.330	.431	S3306-ND	8.10	6.43	4.50	EBC15DRAS
18/36	2.075	2.375	2.675	.330	.431	S3311-ND	8.10	6.43	4.50	EBC18DRAS
22/44	2.475	2.775	3.075	.330	.431	S3316-ND	21.42	17.00	11.90	EBC22DRAS
.156" Row Spacing, .156" Contact Centers										
12/24	2.156	2.469	2.811	.325	.431	S5121-ND	7.94	6.30	4.41	EZM12DRAS
12/24	2.156	2.469	2.811	.325	.431	S3341-ND◆	9.58	7.60	5.32	EBM12DRAS
22/44	3.716	4.029	4.371	.325	.431	S3350-ND◆	12.32	9.78	6.85	EBM22DRAS

◆ ***RoHS Compliant*** ‡ .093" PCB

PCI Express Card Edge Connectors

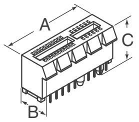

Vertical card edge connectors specifically designed to implement PCI Express technology for desktop PCs and server systems. All connectors support PCI Express signal and power requirements as well as the interface between system board and the add on card specification.

Technical Specifications:

• **Current Rating:** 1.1A, maximum • **Contact Resistance:** 30 mΩ, maximum • **Contact Material:** Phosphor Bronze • **Contact Plating:** Contact Area: 15µm AuNi; Terminal Area: Tin (Lead Free) • **Insulator Material:** 30% Glass Filled Nylon • **Insulation Resistance:** 1000 MΩ min. at 50VAC

No. of Contacts	Dimensions mm A	B	C	Tail Length (mm)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
64	39.00	8.70	15.50	2.3	478-2841-ND	2.38	1.94	1.36	206325064001006
				3	478-2842-ND	2.38	1.94	1.36	206325064002006

Tyco Electronics AMP

Authorized Distributor

Card Edge Connectors

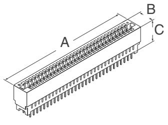

Material and Finish: • Housing: Black glass-filled polyester, 94V-0 rated • Contacts: Phosphor bronze, duplex • Plating A: 30µ" gold in contact area, tin on posts, with entire contact nickel underplated

No. of Pos.	Dimensions (Inches) A	B	C	Distance Between First and Last Position (Inches)	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
.100 Centerline, Vertical Solder Posts, without Mounting Ears									
10	1.260	.368	.61	0.900	A31722-ND	1.29	1.23	.86	5-5530843-0
15	1.760	.368	.61	1.400	A31715-ND	1.77	1.69	1.18	5530843-2
18	2.060	.368	.61	1.700	A31716-ND	2.10	2.00	1.40	5530843-3
20	2.260	.368	.61	1.900	A31723-ND	2.28	2.17	1.52	5-5530843-4
22	2.460	.368	.61	2.100	A31717-ND	2.49	2.37	1.66	5530843-4
25	2.760	.368	.61	2.400	A31718-ND	2.79	2.66	1.86	5530843-5
28	3.060	.368	.61	2.700	A31719-ND	3.09	2.94	2.06	5530843-6
30	3.260	.368	.61	2.900	A31720-ND	3.30	3.14	2.20	5530843-7
31	3.360	.368	.61	3.000	A31724-ND	3.39	3.23	2.26	6-5530843-5

HRS HIROSE ELECTRIC CO.,LTD.

DIN Connectors

No. of Rows	No. of Pins	Type	Dimensions (mm)				Digi-Key Part No.	Pricing			Hirose Part No.
			A	B	C	D		1	10	100	
Fig. 1											
2	20	Header-Right Angle	38.12	29.47	22.86	33.02	H1020-ND	3.54	29.28	219.60	PCN10-20P-2.54DS
	50	Header-Right Angle	76.22	67.57	60.96	71.12	H1050-ND	6.41	53.04	397.80	PCN10-50P-2.54DS
	100	Header-Right Angle	139.72	131.07	124.46	134.62	H1100-ND	3.05	25.20	189.00	PCN10-100P-2.54DS
Fig. 3											
2	20	Socket-Right Angle	43.10	29.12	22.86	38.10	H2120-ND	6.24	51.60	387.00	PCN10C-20S-2.54DS
	44	Socket-Right Angle	73.58	59.60	53.34	68.58	H2144-ND	7.64	64.68	485.10	PCN10C-44S-2.54DS
Fig. 4											
2	44	Socket-Straight	69.60	64.60	59.60	53.34	H1144-ND	8.48	71.72	537.90	PCN10C-44S-2.54DSA
	100	Socket-Straight	140.72	135.72	130.72	124.46	H8200-ND	11.14	103.05	863.35	PCN10MC-100S-2.54DSA
Fig. 7											
3	64*	Socket-Right Angle	94.00	85.00	78.74	88.90	H7064-ND	4.50	37.20	279.00	PCN13-64ACS-2.54DS
RoHS Compliant											
Fig. 1											
2	20	Header-Right Angle	38.12	29.47	22.86	33.02	H11156-ND	3.28	27.12	203.40	PCN10-20P-2.54DS(72)
	32	Header-Right Angle	53.26	44.71	38.10	48.26	H11157-ND	4.35	36.00	270.00	PCN10-32P-2.54DS(72)
	44	Header-Right Angle	68.60	59.95	53.34	63.50	H11158-ND	5.22	43.20	324.00	PCN10-44P-2.54DS(72)
	50	Header-Right Angle	76.22	67.57	60.96	71.12	H11159-ND	5.89	48.72	365.40	PCN10-50P-2.54DS(72)
	64	Header-Right Angle	94.00	85.35	78.74	88.90	H11160-ND	6.53	54.00	405.00	PCN10-64P-2.54DS(72)
	64	Header-Right Angle	94.00	85.35	78.74	88.90	H11212-ND	7.98	67.54	506.55	PCN10MC-64P-2.54DS(72)
	90	Header-Right Angle	127.02	118.37	111.76	121.92	H11161-ND	8.14	68.86	516.45	PCN10-90P-2.54DS(72)
	100	Header-Right Angle	139.72	131.07	124.46	134.62	H11213-ND	10.07	87.60	700.80	PCN10MC-100P-2.54DS(72)
	100	Header-Right Angle	139.72	131.07	124.46	134.62	H11162-ND	8.71	73.70	552.75	PCN10-100P-2.54DS(72)
Fig. 2											
2	20	Header-Straight	43.3	38.1	29.47	22.86	H11163-ND	3.83	31.68	237.60	PCN10-20P-2.54DSA(72)
	32	Header-Straight	58.34	53.34	44.71	38.10	H11164-ND	4.50	37.20	279.00	PCN10-32P-2.54DSA(72)
	44	Header-Straight	73.58	68.10	59.95	53.34	H11165-ND	5.57	46.08	345.60	PCN10-44P-2.54DSA(72)
	50	Header-Straight	81.40	76.20	67.57	60.96	H11166-ND	6.41	53.04	397.80	PCN10-50P-2.54DSA(72)
	64	Header-Straight	99.18	93.98	85.34	78.74	H11167-ND	6.86	58.08	435.60	PCN10-64P-2.54DSA(72)
	90	Header-Straight	132.20	127.00	118.37	111.76	H11168-ND	8.10	70.40	563.20	PCN10-90P-2.54DSA(72)
Fig. 3											
2	20	Socket-Right Angle	43.10	29.12	22.86	38.10	H11169-ND	6.18	51.12	383.40	PCN10C-20S-2.54DS(72)
	32	Socket-Right Angle	58.34	44.36	38.10	53.34	H11170-ND	6.61	54.72	410.40	PCN10C-32S-2.54DS(72)
	44	Socket-Right Angle	73.58	59.60	53.34	68.58	H11171-ND	7.57	64.02	480.15	PCN10C-44S-2.54DS(72)
	50	Socket-Right Angle	81.20	67.22	60.96	76.20	H11181-ND	8.19	69.30	519.75	PCN10C-50S-2.54DS(72)
	64	Socket-Right Angle	98.98	85.00	78.74	93.98	H11182-ND	8.51	74.00	592.00	PCN10C-64S-2.54DS(72)
	90	Socket-Right Angle	132.00	118.02	111.76	127.00	H11183-ND	10.38	96.02	804.45	PCN10C-90S-2.54DS(72)
	100	Socket-Right Angle	144.70	130.72	124.46	139.70	H11184-ND	11.16	103.23	864.90	PCN10C-100S-2.54DS(72)
	20	Socket-Right Angle	43.10	29.12	22.86	38.10	H11185-ND	3.19	26.40	198.00	PCN13-20S-2.54DS(71)
	32	Socket-Right Angle	58.34	44.36	38.10	53.43	H11186-ND	4.12	34.08	255.60	PCN13-32S-2.54DS(71)
	44	Socket-Right Angle	73.58	59.60	53.34	68.58	H11187-ND	5.10	42.24	316.80	PCN13-44S-2.54DS(71)
	50	Socket-Right Angle	81.20	67.22	60.96	76.20	H11468-ND	5.66	46.80	351.00	PCN13-50S-2.54DS(81)
	64	Socket-Right Angle	98.98	85.00	78.74	93.98	H11189-ND	6.58	55.66	417.45	PCN13-64S-2.54DS(71)
	90	Socket-Right Angle	132.00	118.02	111.76	127.00	H11190-ND	8.24	69.74	523.05	PCN13-90S-2.54DS(71)
	100	Socket-Right Angle	144.70	130.72	124.46	139.70	H11191-ND	8.92	75.46	565.95	PCN13-100S-2.54DS(71)
Fig. 4											
2	20	Socket-Straight	39.12	34.12	29.12	22.86	H11192-ND	4.87	40.32	302.40	PCN10C-20S-2.54DSA(72)
	32	Socket-Straight	54.36	49.36	44.36	38.10	H11193-ND	6.41	53.04	397.80	PCN10C-32S-2.54DSA(72)
	44	Socket-Straight	69.60	64.60	59.60	53.34	H11194-ND	7.80	66.00	495.00	PCN10C-44S-2.54DSA(72)
	50	Socket-Straight	77.22	72.22	67.22	60.96	H11195-ND	8.16	69.08	518.10	PCN10C-50S-2.54DSA(72)
	64	Socket-Straight	95.00	90.00	85.00	78.74	H11196-ND	8.67	75.40	603.20	PCN10C-64S-2.54DSA(72)
	90	Socket-Straight	128.02	123.02	118.02	111.76	H11197-ND	11.41	99.20	793.60	PCN10C-90S-2.54DSA(72)
	100	Socket-Straight	140.72	135.72	130.72	124.46	H11198-ND	10.90	100.83	844.75	PCN10C-100S-2.54DSA(72)
	32	Socket-Straight-W/W	54.36	49.36	43.36	38.10	H11199-ND	8.16	69.08	518.10	PCN10-32S-2.54WB(72)
	50	Socket-Straight-W/W	77.22	72.22	67.22	60.96	H11200-ND	10.74	93.40	747.20	PCN10-50S-2.54WB(72)
	64	Socket-Straight-W/W	95.00	99.00	85.00	78.74	H11201-ND	11.26	104.16	872.65	PCN10-64S-2.54WB(72)
	90	Socket-Straight-W/W	128.02	123.00	118.00	111.76	H11202-ND	13.28	124.96	1093.40	PCN10-90S-2.54WB(72)
	20	Socket-Straight	39.12	34.12	29.12	22.86	H11203-ND	2.90	24.00	180.00	PCN13-20S-2.54DSA(71)
	32	Socket-Straight	54.36	49.36	44.36	38.10	H11204-ND	3.74	30.96	232.20	PCN13-32S-2.54DSA(71)
	44	Socket-Straight	69.60	64.60	59.60	53.34	H11205-ND	4.76	39.36	295.20	PCN13-44S-2.54DSA(71)
	50	Socket-Straight	77.22	72.22	67.22	60.96	H11206-ND	5.28	43.68	327.60	PCN13-50S-2.54DSA(71)
	64	Socket-Straight	95.00	90.00	85.00	78.74	H11207-ND	6.41	53.04	397.80	PCN13-64S-2.54DSA(71)
	90	Socket-Straight	128.02	123.02	118.02	111.76	H11208-ND	7.77	65.78	493.35	PCN13-90S-2.54DSA(71)
	100	Socket-Straight	140.72	135.72	130.72	124.46	H11209-ND	8.53	72.16	541.20	PCN13-100S-2.54DSA(71)
	64	Socket-Straight	95.00	90.00	85.00	78.74	H11210-ND	8.40	73.00	584.00	PCN10MC-64S-2.54DSA(72)
	100	Socket-Straight	140.72	135.72	130.72	124.46	H11211-ND	10.22	94.54	792.05	PCN10MC-100S-2.54DSA(72)
Fig. 5											
3	64*	Header-Right Angle	94.00	88.00	85.25	78.74	H11214-ND	6.97	58.96	442.20	PCN10-64ACP-2.54DS(72)
	96	Header-Right Angle	94.00	88.00	85.25	78.74	H11215-ND	8.71	73.70	552.75	PCN10-96P-2.54DS(72)
	96	Header-Right Angle	94.00	88.00	85.25	78.74	H11216-ND	8.72	75.80	606.40	PCN10MC-96P-2.54DS(72)
Fig. 6											
3	64*	Header-Straight	95.00	90.00	88.00	85.25	H11217-ND	7.98	67.54	506.55	PCN10-64ACP-2.54DSA(72)
	96	Header-Straight	95.00	90.00	88.00	85.25	H11218-ND	9.41	81.80	654.40	PCN10-96P-2.54DSA(72)
Fig. 7											
3	64*	Socket-Right Angle	94.00	85.00	78.74	88.90	H11219-ND	7.83	66.22	496.65	PCN13-64ACS-2.54DS(71)
	96	Socket-Right Angle	94.00	85.00	78.74	88.90	H11220-ND	9.05	76.56	574.20	PCN13-96S-2.54DS(71)
Fig. 8											
3	96	Socket-Straight	95.00	90.00	85.00	78.74	H11221-ND	10.07	87.60	700.80	PCN10MC-96S-2.54DSA(72)
	64*	Socket-Straight	95.00	90.00	85.00	78.74	H11222-ND	8.92	75.46	565.95	PCN10-64ACS-2.54DSA(72)
	96	Socket-Straight	95.00	90.00	85.00	78.74	H11223-ND	8.53	72.16	541.20	PCN13-96S-2.54DSA(71)
	96	Socket-Straight-W/W	95.00	90.00	85.00	78.74	H11224-ND	14.01	131.84	1153.60	PCN10-96S-2.54WB(72)

* 64 pins; in 3-row format with pins on outside rows and middle row open

Fig. 1
2-Row, Header, Right-Angle Type

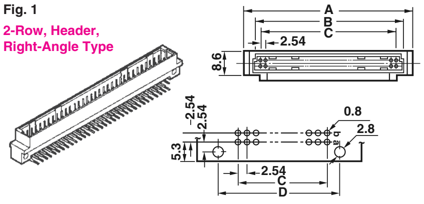

Fig. 2
2-Row, Header, Straight Type

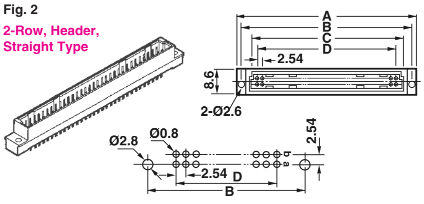

Fig. 3
2-Row, Socket, Right-Angle Type

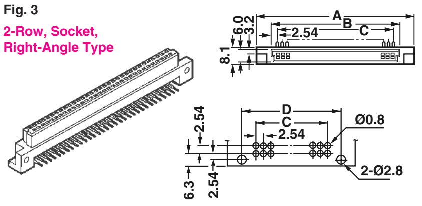

Fig. 4
2-Row, Socket, Straight Type

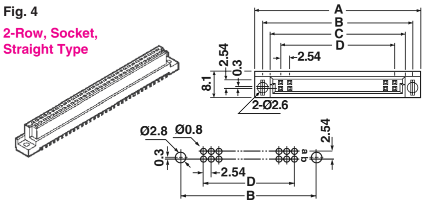

Fig. 5
3-Row, Header, Right-Angle Type

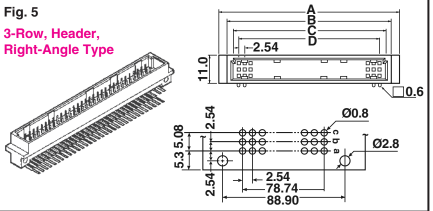

Fig. 6
3-Row, Header, Straight Type

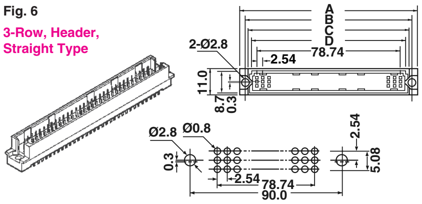

Fig. 7
3-Row, Socket, Right-Angle Type

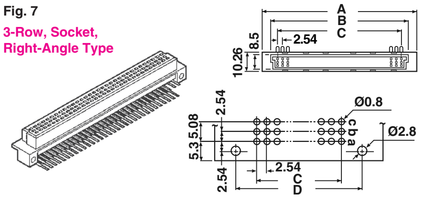

Fig. 8
3-Row, Socket, Straight Type

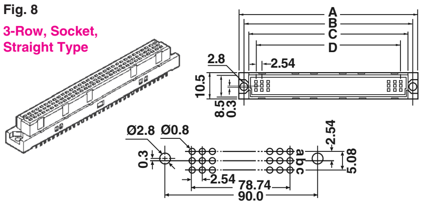

DIN Connectors

Specification: • Housing: Polyester, gray, 94V-0 rated

Fig. 1

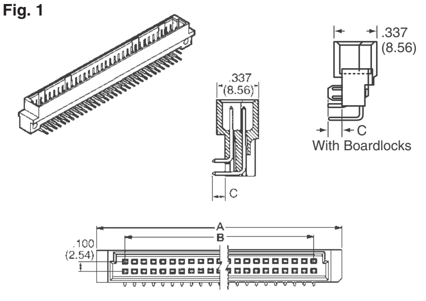

Fig. 2

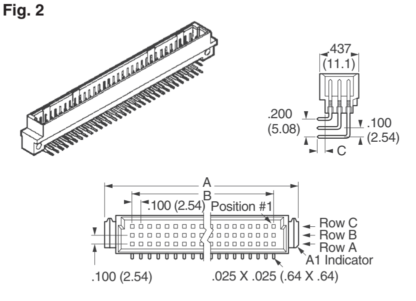

Fig. 3

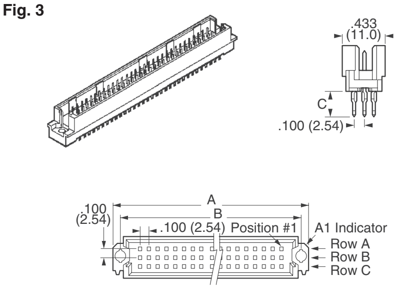

Fig. 4

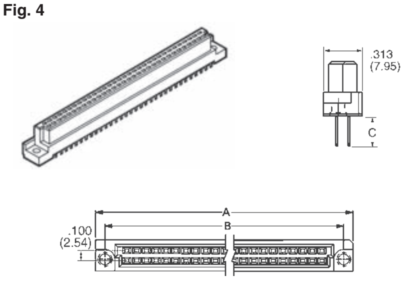

Fig. 5

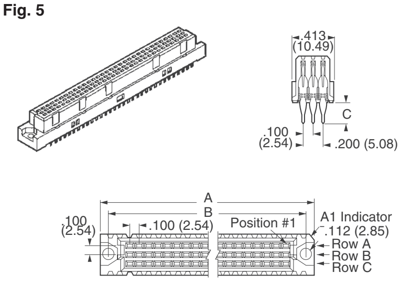

Fig. 6

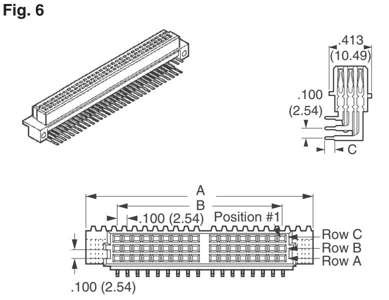

Fig.	No. of Rows	No. of Pins	DIN Performance Rating	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Brass Contacts										
Type B Right Angle Plug With Solder Posts										
1	2	32	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A29001-ND	2.78	2.59	536053-5
		32		2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A32808-ND◆	2.60	2.42	5536053-5
		64		3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A1250-ND	4.23	3.93	536052-5
		64		3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A29000-ND†	5.40	5.02	536385-5
		64		3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A32297-ND◆†	4.89	4.71	5536385-5
Type C Plug, Right Angle										
2	2	32	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A1276-ND	2.69	2.50	650946-5
	3	48	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A32298-ND◆	2.84	2.74	5650478-5
		48		2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A29005-ND†	5.27	4.90	650916-5
		48		2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A32809-ND◆†	4.92	4.58	5650916-5
		48		2.100 (53.34)	1.500 (38.10)	.130 (3.30)	A1281-ND	3.15	2.93	650948-5
		48		2.100 (53.34)	1.500 (38.10)	.130 (3.30)	A32810-ND◆	2.95	2.74	5650948-5
		64*	2	2.100 (53.34)	1.500 (38.10)	.130 (3.30)	A1280-ND	4.64	4.32	650951-5
		64*		2.100 (53.34)	1.500 (38.10)	.130 (3.30)	A32811-ND◆	4.34	4.03	5650951-5
		64*		3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A29008-ND†	4.22	3.93	536406-5
		64*		3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A32812-ND◆†	3.95	3.67	5536406-5
		64*		3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A29013-ND†	4.22	3.93	536356-5
		64*	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A32813-ND◆†	3.95	3.67	5536356-5
		64*		3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A1255-ND	3.84	3.57	650945-5
		64*		3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A32299-ND◆	3.46	3.34	5650945-5
		96		3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A32300-ND◆	4.06	3.91	5650947-5
		96		3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A29007-ND†	6.10	5.67	536405-5
		96	2	3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A32814-ND◆†	5.70	5.30	5536405-5
		96		3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A1254-ND	4.81	4.47	650473-5
		96		3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A29009-ND§	7.20	6.69	536010-5
		96		3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A32815-ND◆§	6.75	6.27	5536010-5
		96		3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A29010-ND†§	7.84	7.28	536416-5
		96	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A32816-ND◆†§	7.34	6.82	5536416-5
		96		3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A29012-ND†	5.05	4.70	650913-5
		96		3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A32817-ND◆†	4.72	4.39	5650913-5
		120		4.500 (114.30)	3.900 (99.06)	.104 (2.64)	A1277-ND	6.78	6.30	650906-5
		120		4.500 (114.30)	3.900 (99.06)	.104 (2.64)	A32301-ND◆	6.10	5.88	5650906-5
		120	2	4.500 (114.30)	3.900 (99.06)	.130 (3.30)	A1283-ND	18.62	17.29	650949-5
		120		4.500 (114.30)	3.900 (99.06)	.130 (3.30)	A32818-ND◆	17.39	16.15	5650949-5
		150		5.500 (139.70)	4.900 (124.46)	.104 (2.64)	A1278-ND	10.02	9.31	650907-5
		150		5.500 (139.70)	4.900 (124.46)	.104 (2.64)	A32302-ND◆	9.02	8.69	5650907-5
		150		5.500 (139.70)	4.900 (124.46)	.104 (2.64)	A29006-ND†	12.94	12.02	650915-5
		150		5.500 (139.70)	4.900 (124.46)	.104 (2.64)	A32819-ND◆†	12.07	11.21	5650915-5
Type R Vertical Plug with Solder Posts										
3	3	32*	2	2.140 (54.37)	1.943 (49.35)	.180 (4.57)	A1238-ND	2.87	2.67	650936-5
		32*		2.140 (54.37)	1.943 (49.35)	.180 (4.57)	A32820-ND◆	2.69	2.50	5650936-5
		48		2.140 (54.37)	1.943 (49.35)	.130 (3.30)	A32303-ND◆	2.74	2.64	5650479-5
		48		2.140 (54.37)	1.943 (49.35)	.180 (4.57)	A1237-ND	3.50	3.25	650477-5
		48		2.140 (54.37)	1.943 (49.35)	.180 (4.57)	A32821-ND◆	3.33	3.10	5650477-5
		64*	2	2.140 (54.37)	1.943 (49.35)	.130 (3.30)	A29034-ND	3.60	3.35	650933-5
		64*		2.140 (54.37)	1.943 (49.35)	.130 (3.30)	A32822-ND◆	3.36	3.13	5650933-5

◆ **RoHS Compliant** * In 3-row format with pins on outside rows and middle row open † With Boardlock § High Temperature Housing ‡ Contact finish 30µ" gold over 50µ" nickel in contact area *(Continued)*

Fig.	No. of Rows	No. of Pins	DIN Performance Rating	Dimensions – Inch (mm)			Digi-Key Part No.	Price Each		AMP Part No.
				A	B	C		1	25	
3	3	64*	2	3.740 (95.00)	3.543 (89.99)	.180 (4.57)	A1261-ND	3.60	3.35	650934-5
		64*		3.740 (95.00)	3.543 (89.99)	.180 (4.57)	A32823-ND◆	3.43	3.19	5650934-5
		96		3.740 (95.00)	3.543 (89.99)	.130 (3.30)	A29032-ND	4.39	4.08	650908-5
		96		3.740 (95.00)	3.543 (89.99)	.130 (3.30)	A32824-ND◆	4.11	3.82	5650908-5
		96		3.740 (95.00)	3.543 (89.99)	.180 (4.57)	A1260-ND	4.38	4.08	650470-5
		96	2	3.740 (95.00)	3.543 (89.99)	.180 (4.57)	A32825-ND◆	4.18	3.88	5650470-5
		120		4.535 (115.19)	4.343 (110.31)	.180 (4.57)	A1239-ND	10.70	9.94	650910-5
		120		4.535 (115.19)	4.343 (110.31)	.180 (4.57)	A32826-ND◆	10.22	9.49	5650910-5
		120		4.535 (115.19)	4.343 (110.31)	.130 (3.30)	A29037-ND	9.27	8.61	650919-5
		120		4.535 (115.19)	4.343 (110.31)	.130 (3.30)	A32827-ND◆	8.68	8.06	5650919-5
		150	2	5.535 (140.59)	5.343 (135.71)	.180 (4.57)	A1297-ND	23.55	21.87	650911-5
		150		5.535 (140.59)	5.343 (135.71)	.180 (4.57)	A32828-ND◆	22.40	20.80	5650911-5
Phosphor Bronze Contacts										
Type B Vertical Receptacle										
4	2	32	2	2.100 (53.34)	1.943 (49.35)	.180 (4.57)	A1253-ND	3.72	3.46	650858-5
		32		2.100 (53.34)	1.943 (49.35)	.180 (4.57)	A32829-ND◆	3.48	3.24	5650858-5
		64		3.700 (93.98)	3.543 (89.99)	.098 (2.49)	A29002-ND	5.18	4.82	650859-5
		64		3.700 (93.98)	3.543 (89.99)	.098 (2.49)	A32830-ND◆	4.84	4.50	5650859-5
		64		3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29003-ND	4.51	4.19	650860-5
		64	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A32831-ND◆	4.21	3.91	5650860-5
		64		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A1252-ND	4.51	4.19	650861-5
		64		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32832-ND◆	4.21	3.91	5650861-5
		64	—	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A29004-ND	5.56	5.17	650861-4
		64		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32833-ND◆	5.20	4.83	5650861-4
Type C Vertical Receptacle										
5	3	48	2	2.100 (53.34)	1.944 (49.37)	.130 (3.30)	A1287-ND	3.92	3.64	535070-5
		48		2.100 (53.34)	1.944 (49.37)	.130 (3.30)	A32834-ND◆	3.66	3.40	5535070-5
		48		2.100 (53.34)	1.944 (49.37)	.130 (3.30)	A29022-ND	4.50	4.19	535070-4
		48		2.100 (53.34)	1.944 (49.37)	.130 (3.30)	A32835-ND◆	4.21	3.91	5535070-4
		48		2.100 (53.34)	1.944 (49.37)	.180 (4.57)	A29023-ND	3.92	3.64	535071-4
		48	2	2.100 (53.34)	1.944 (49.37)	.180 (4.57)	A32836-ND◆	3.66	3.40	5535071-4
		64*		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A1259-ND	3.92	3.64	650408-5
		64*		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32837-ND◆	3.66	3.40	5650408-5
		64*		3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A1286-ND	3.92	3.64	650956-5
		64*		3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A32838-ND◆	3.66	3.40	5650956-5
		64*	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A29021-ND	5.21	4.84	650408-4
		64*		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32839-ND◆	4.87	4.53	5650408-4
		96		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A1258-ND	4.70	4.37	535043-5
		96		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32840-ND◆	4.39	4.08	5535043-5
		96		3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A1285-ND	4.70	4.37	535090-5
		96	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A32841-ND◆	4.39	4.08	5535090-5
		96		3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29014-ND	4.69	4.36	535090-4
		96		3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A32842-ND◆	4.38	4.07	5535090-4
		96		3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29015-ND†	6.02	5.59	650963-4
		96		3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A32843-ND◆†	5.63	5.23	5650963-4
		96	3	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29016-ND	8.90	8.27	535090-9
		96		3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A32844-ND◆	8.29	7.70	5535090-9
		96	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A29017-ND	4.70	4.37	535043-4
		96		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32845-ND◆	4.39	4.08	5535043-4
		96		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A29018-ND†	10.36	9.62	536412-4
		96		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A32846-ND†◆	5.49	5.10	5536412-4
		120		4.500 (114.30)	4.343 (110.31)	.130 (3.30)	A1289-ND	6.44	5.98	535098-5
		120	2	4.500 (114.30)	4.343 (110.31)	.130 (3.30)	A32847-ND◆	6.02	5.59	5535098-5
		150		5.500 (139.70)	5.343 (135.71)	.130 (3.30)	A1290-ND	11.41	10.18	650405-5
		150		5.500 (139.70)	5.343 (135.71)	.130 (3.30)	A32848-ND◆	10.66	9.52	5650405-5
		150		5.500 (139.70)	5.343 (135.71)	.180 (4.57)	A29027-ND	28.08	26.08	650406-5
		150		5.500 (139.70)	5.343 (135.71)	.180 (4.57)	A32849-ND◆	26.24	24.37	5650406-5
Type C Vertical Receptacle with Action Pin For PC Board Mount — .012" x .024" (0.30mm x 0.61mm)										
5	3	32*	2	2.100 (53.34)	1.944 (49.38)	.190 (4.83)	A1294-ND	3.48	3.24	535068-5
		32*		2.100 (53.34)	1.944 (49.38)	.190 (4.83)	A32850-ND◆	4.85	4.51	5535068-5
		48		2.100 (53.34)	1.944 (49.38)	.190 (4.83)	A1293-ND	4.83	4.49	535034-5
		64*		3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A29029-ND	4.16	3.87	535059-4
		64*		3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A32851-ND◆	3.89	3.62	5535059-4
		64*	2	3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A1292-ND	4.16	3.87	535059-5
		64*		3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A32852-ND◆	3.89	3.62	5535059-5
		96		3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A1291-ND	4.70	4.37	535032-4
		96	3	3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A29028-ND	6.87	6.38	535032-9
		96		3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A32853-ND◆	6.42	5.97	5535032-9
		120	2	4.500 (114.30)	4.343 (110.31)	.190 (4.83)	A1295-ND	8.57	7.96	535079-5
		120		4.500 (114.30)	4.343 (110.31)	.190 (4.83)	A32854-ND◆	8.04	7.47	5535079-5
		150		5.500 (139.70)	5.343 (135.71)	.190 (4.83)	A1296-ND	11.34	10.53	535080-5
		150		5.500 (139.70)	5.343 (135.71)	.190 (4.83)	A32855-ND◆	10.58	9.83	5535080-5
Type R Vertical Plug with Action Pin Posts										
3	3	48	2	2.140 (54.36)	1.943 (49.35)	.250 (6.35)	A1243-ND	4.64	4.32	650918-5
		48		2.140 (54.36)	1.943 (49.35)	.250 (6.35)	A32304-ND◆	4.18	4.03	5650918-5
		64*		3.740 (95.00)	3.543 (89.99)	.250 (6.35)	A1242-ND	12.05	11.20	650912-5
		96		3.740 (95.00)	3.543 (89.99)	.521 (13.23)	A1265-ND	6.44	5.98	650909-5
		96		3.740 (95.00)	3.543 (89.99)	.250 (6.35)	A1241-ND	4.48	4.16	650889-5
		96	2	3.740 (95.00)	3.543 (89.99)	.250 (6.35)	A32857-ND◆	4.18	3.89	5650889-5
		120		4.535 (115.19)	4.343 (110.31)	.250 (6.35)	A1245-ND	22.37	20.78	650921-5
		120		4.535 (115.19)	4.343 (110.31)	.250 (6.35)	A32305-ND◆	20.20	19.45	5650921-5
Type R Right Angle Receptacle										
6	3	48	2	2.096 (53.24)	1.500 (38.10)	.110 (2.79)	A32306-ND◆	4.27	4.12	5650868-4
		48		2.096 (53.24)	1.500 (38.10)	.110 (2.79)	A1271-ND	3.91	3.63	650868-5
		48		2.096 (53.24)	1.500 (38.10)	.110 (2.79)	A32858-ND◆	4.43	4.12	5650868-5
		48		2.096 (53.24)	1.500 (38.10)	.110 (2.79)	A29042-ND†	11.14	10.35	650893-4
		64*		3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A1263-ND	4.16	3.87	650870-4
		64*	2	3.696 (93.88)	3.100 (78.74)	110 (2.79)	A32859-ND◆	3.89	3.62	5650870-4
		96		3.696 (93.88)	3.100 (78.74)	.167 (4.24)	A29044-ND	5.07	4.71	650462-4
		96		3.696 (93.88)	3.100 (78.74)	.167 (4.24)	A32860-ND◆	4.76	4.42	5650462-4

◆ ***RoHS Compliant*** * In 3-row format with pins on outside rows and middle row open † With Boardlock § High Temperature Housing ‡ Contact finish 30µ" gold over 50µ" nickel in contact area *(Continued)*

DIN Connectors *(Cont.)*

Fig.	No. of Rows	No. of Pins	DIN Performance Rating	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	AMP Part No.
6	3	96	3	3.696 (93.88)	3.100 (78.74)	.167 (4.24)	A1264-ND	5.07	4.71	650462-5
		96		3.696 (93.88)	3.100 (78.74)	.167 (4.24)	A32861-ND◆	4.76	4.42	5650462-5
		96	2	3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A29038-ND	5.07	4.71	650461-4
		96		3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A32862-ND◆	4.76	4.42	5650461-4
		96		3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A1262-ND	5.07	4.71	650461-5
		96		3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A32863-ND◆	5.71	5.31	5650461-5
		96		3.696 (93.88)	3.100 (78.74)	.110 (2.79)	A29039-ND†	6.78	6.30	650895-4
		120	2	4.496 (114.20)	3.900 (99.06)	.110 (2.79)	A32307-ND◆	7.07	6.82	5650874-5
		120		4.496 (114.20)	3.900 (99.06)	.110 (2.79)	A30746-ND‡	8.79	8.17	650874-4
		120		4.496 (114.20)	3.900 (99.06)	.110 (2.79)	A32864-ND◆	8.26	7.67	5650874-4
		150		5.496 (139.60)	4.900 (124.46)	.110 (2.79)	A1274-ND	11.84	11.00	650875-5
		150		5.496 (139.60)	4.900 (124.46)	.110 (2.79)	A32865-ND◆	11.06	10.27	5650875-5

◆ ***RoHS Compliant*** * In 3-row format with pins on outside rows and middle row open † With Boardlock § High Temperature Housing ‡ Contact finish 30µ" gold over 50µ" nickel in contact area

ELCON Drawer Series Connectors

ELCON Drawer Series family of mixed power and signal connectors is designed for an unlimited array of applications that use drawer-type, true hot-plug power supply units. Contacts for AC IN and DC OUT power, logic and signal are all housed in robust one-piece insulators that have built-in or optional mating guides for improved gatherability and mating polarization.

Features:

- High performance CROWN BAND contacts • Low millivolt drop, minimal temperature rise
- True hot-pluggability for current interruption under load

Applications:

- Low noise power supplies • Switch-mode power supplies • "Live" hot-plug power supplies

Fig. 1

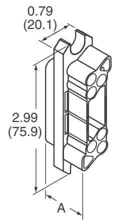

Fig. 2

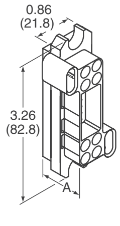

Fig. 3

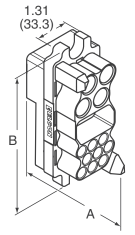

Fig.	Description	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
	Mini Drawer							
1	Pin Connector, 16/20/16	0.97 (24.6)	—	A36276-ND	13.25	12.00	8.50	1648111-1
	Socket Connector, 16/20/16	1.08 (27.4)	—	A36277-ND	9.25	8.38	5.94	1648116-1
	Lower Drawer							
2	Pin Connector, 12/20/12	0.87 (22.1)	—	A36262-ND	8.37	7.59	5.38	1648203-1
	Pin Connector, 16/20/12	0.87 (22.1)	—	A36266-ND	8.51	7.71	5.46	1648205-1
	Pin Connector, 16/20/16	0.87 (22.1)	—	A36264-ND	11.98	10.85	7.69	1648204-1
	Socket Connector, 12/20/12	1.09 (27.7)	—	A36263-ND	8.35	7.56	5.36	1648206-1
	Socket Connector, 16/20/12	1.09 (27.7)	—	A36267-ND	10.52	9.53	6.75	1648208-1
	Socket Connector, 16/20/16	1.09 (27.7)	—	A36265-ND	8.77	7.95	5.63	1648207-1
	Middle Drawer							
3	Pin Connector, 4/20/12, Float Mount	1.31 (33.3)	3.15 (80.0)	A36272-ND	15.79	14.31	10.14	1648151-1
	Pin Connector, 4/20/12, PCB Mount	0.98 (24.9)	3.15 (80.0)	A36274-ND	18.74	16.97	12.02	1648152-1
	Pin Connector, 8/20/12 Crimp, Float Mount	1.46 (37.1)	3.31 (84.1)	A36268-ND	9.51	8.62	6.11	1648162-1
	Pin Connector, 8/20/12, PCB Mount	1.22 (31.0)	3.31 (84.1)	A36270-ND	11.18	10.13	7.18	1648163-1
	Socket Connector, 4/20/12, Float Mount	1.36 (34.5)	3.15 (80.0)	A36273-ND	13.36	12.10	8.57	1648156-1
	Socket Connector, 4/20/12, PCB Mount	1.23 (31.2)	3.15 (80.0)	A36275-ND	18.74	16.97	12.02	1648157-1
	Socket Connector, 8/20/12 Float Mount	1.12 (28.4)	3.31 (84.1)	A36269-ND	11.50	10.42	7.38	6648167-1
	Socket Connector, 8/20/12, PCB Mount	0.88 (22.4)	3.31 (84.1)	A36271-ND	13.67	12.39	8.78	1648168-1

Contacts and Tools

Description	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
Contacts					
Crimp Pin, Size #4, Silver	A36278-ND	8.29	7.52	5.33	1766232-1
Crimp Socket, Size #4, Silver	A36296-ND	9.20	8.33	5.90	6648434-1
Crimp Pin, Size #8, Silver	A36279-ND	2.36	2.14	1.52	1766192-1
Crimp Socket, Size #8, Silver	A36294-ND	7.92	7.18	5.09	6648317-1
PCB Pin, Size #8, Silver	A36280-ND	2.62	2.38	1.69	1766262-1
PCB Socket, Size #8, Silver	A36295-ND	7.92	7.18	5.09	6648400-1
Crimp Pin, Size #12, Silver	A36281-ND	1.06	.96	.68	1766193-1
Crimp Socket, Size #12, Silver	A36292-ND	3.58	3.24	2.30	6648318-1
PCB Pin, Size #12, Silver	A36282-ND	1.11	1.01	.72	1766245-1
PCB Socket, Size #12, Silver	A36293-ND	4.03	3.65	2.59	6648374-1
Crimp Pin, Size #16, Silver	A36283-ND	1.43	1.30	.92	1766194-1
Crimp Socket, Size #16, Silver	A36289-ND	3.71	3.36	2.38	6648319-1
PCB Pin, Size #16, Silver	A36284-ND	.82	.75	.53	1766222-1
PCB Socket, Size #16, Silver	A36290-ND	3.71	3.36	2.38	6648383-1
Crimp Socket, Size #12, 5µ" Gold, Hot-Pluggable	A36291-ND	7.29	6.60	4.68	1648384-1
Crimp Pin, Size #20, 10µ" Gold	A36285-ND	.58	.53	.38	1650155-1
Crimp Socket, Size #20, 10µ" Gold	A36287-ND	1.72	1.56	1.11	1648325-1
PCB Pin, Size #20, 30µ" Gold	A36286-ND	.66	.60	.43	1650283-1
PCB Socket, Size #20, 10µ" Gold	A36288-ND	1.72	1.56	1.11	1648382-1
Tools					
Insertion/Extraction Tool, Size #0, Light Yellow	A36313-ND	5.30	—	—	1643921-1
Insertion/Extraction Tool, Size #4, Blue	A36312-ND	4.65	—	—	1643922-1
Insertion/Extraction Tool, Size #8, Red	A36311-ND	4.65	—	—	1643914-1
Insertion/Extraction Tool, Size #12, Yellow/White	A36310-ND	3.75	—	—	1643915-1
Insertion/Extraction Tool, Size #16, Blue/White	A36309-ND	2.70	—	—	1643916-1
Insertion/Extraction Tool, Size #20, Red/White	A36308-ND	2.15	—	—	1643917-1

ASTRO TOOL CORP.
CONNECTOR ASSEMBLY TOOLING

Tools

Description	Digi-Key Part No.	Price Each	Astro Tool Corp. Part No.
Pneumatic Crimp Tool without Dies	AMT23B-ND	1250.20	AMT23B
Size 4 Die Set for use with AMT23B	AMT23004DA-ND	261.61	AMT23004DA
Locator for use with AMT23004DA	AMT23011L-ND	37.11	AMT23011L
Size 8 Die Set for use with AMT23B	AMT23002DA-ND	261.61	AMT23002DA
Locator for use with AMT23002DA	AMT23009L-ND	37.11	AMT23009L

CROWN EDGE Connectors

CROWN EDGE socket connectors are a board-to-board power interconnect solution that uses ELCON high performance CROWN BAND contact technology configured to mate directly with a printed circuit board edge, or with a solid bus bar for higher currents. Power and signal can be combined and mounted end-to-end to meet the requirements of the applications.

Applications: • Board-to-board power connections • DC-DC converters • Uninterruptible power supply (UPS) • Power supplies

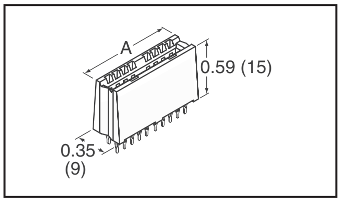

Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
8 Signal Contacts, 2 Power Contacts, Press Fit	1.06 (26.8)	A36247-ND	14.63	13.25	9.39	6643460-3
6 Power Contacts, Press Fit	1.56 (39.7)	A36248-ND	11.71	10.61	7.52	6650384-2
4 Power Contacts, Press Fit, Hot Pluggable	1.06 (26.8)	A36250-ND	8.59	7.78	5.51	6651331-1
16 Signal Contacts, Press Fit	1.06 (26.8)	A36251-ND	9.96	9.03	6.40	6650534-1

CROWN CLIP Sockets

CROWN CLIP sockets are compact, high-current socket connectors for high current bus bar power distribution. Using ELCON high performance CROWN BAND technology, CROWN CLIP sockets are available in single pole format to mate with a solid blade, handling up to 350 amps, or in dual pole format to mate with laminated bus bar tabs for feed and return currents.

Applications: • Bus bar based power distribution • Power racks • Rack mounted switching power supplies

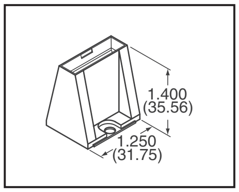

Description	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
Socket Connector, Dual Pole Feed Through	A36252-ND	8.82	8.00	5.67	1643902-1
Socket Connector, Single Pole Float Mount	A36254-ND	17.33	15.70	11.12	1643906-1
Socket Connector, Dual Pole Float Mount	A36253-ND	6.15	5.57	3.95	1643903-1

ICCON Single Pole Power Connectors

ICCON connectors provide a reliable high current power interconnection with quick connect/disconnect function for space constrained motherboard-daughterboard, cable-board and board-bus bar power delivery applications.

Specifications: • Current Rating: 35A • Insulation Rating: 105°C UL94V-0 • Wire Size: 8AWG

Applications: • Power distribution • Board-to-board interconnection • Board-to-bus bar interconnection • Board-to-wire interconnection • High density power designs • Board stacking

Fig. 1

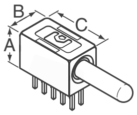

Fig. 2

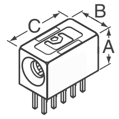

Fig. 3

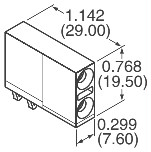

Fig. 4

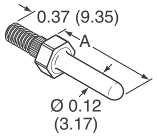

Fig.	Description	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
1	Parallel Solder Pin, Right Angle, Non-locking	0.4 (10.16)	0.4 (10.16)	0.5 (12.7)	A36259-ND	6.65	6.03	4.27	6643281-1
	Parallel Solder Pin, Right Angle, Non-locking	0.36 (9.02)	0.29 (7.37)	0.53 (13.34)	A36260-ND	12.77	11.57	8.20	6643228-1
2	Parallel Solder Socket, Right Angle	0.36 (9.02)	0.29 (7.37)	0.53 (13.34)	A36261-ND	10.31	9.34	6.62	6643229-1
	Solder Socket, Right Angle	0.42 (10.66)	0.4 (10.16)	0.5 (12.7)	A36258-ND	4.72	4.28	3.03	6643232-1
3	Power Guide Socket, 2 Position Right Angle	—	—	—	A36255-ND	36.04	32.64	23.12	1766664-1
4	Pin Connector, 2 Position Power Guide	0.63 (16.00)	—	—	A36256-ND	23.45	21.24	15.05	1766663-1
	Pin Connector, 2 Position Ground Guide	0.71 (18.00)	—	—	A36257-ND	23.74	21.51	15.24	1766663-2

RAPID LOCK Bus Bar Connectors

The RAPID LOCK connectors are single-pole, quick connect/disconnect replacement for lug connections, used in bus bar and backplane power distribution applications.

RAPID LOCK connectors allow a reliable and safe connection, as well as better serviceability, than bolt-fitted lugs. The cable mounted sockets have a right angle configuration, and feature an insulator cap that provides the retention mechanism on the pin.

The pin contacts can be attached to a bus bar by screw or swage, and to a backplane by press fit and backup screw.

Features:
• Locking feature "snaps" each contact to mating pin • Low contact resistance • Up to 250A per contact

Fig. 1

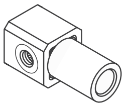

Fig. 2

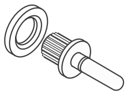

Fig. 3

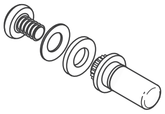

Fig. 4

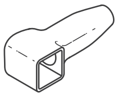

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
1	Crown Socket Jumper, Size #8, Variable Crimp Sizes	A36297-ND	40.07	36.29	25.71	6648228-1
	Crown Socket Jumper, Size #8, 6AWG Crimp	A36298-ND	17.52	15.87	11.24	1766484-1
	Crown Socket Right Angle, Size #4, 8AWG Crimp	A36299-ND	23.77	21.53	15.25	6648235-1
	Crown Socket Right Angle, Size #4, 6AWG Crimp	A36300-ND	10.84	9.82	6.96	6648239-1
2	Pin Contact, Size #8 Swage Mount, Locking Style — Press Fit	A36301-ND	8.75	7.92	5.61	6648221-1
	Pin Contact, Size #4 Swage Mount, Locking Style — Press Fit	A36302-ND	7.69	6.96	4.93	6648222-1
3	Pin Contact, Size #4 Screw Mount, Locking Style — Press Fit	A36303-ND	8.06	7.30	5.17	6648224-1
4	Insulation Boot, Size #4 and #8, Black	A36304-ND	2.44	2.21	1.57	1651003-1
	Insulation Boot, Size #4 and #8, Red	A36305-ND	2.44	2.21	1.57	1651003-2
	Insulation Boot, Size #4 and #8, Grey	A36306-ND	2.44	2.21	1.57	1651003-3
	Insulation Boot, Size #4 and #8, Blue	A36307-ND	2.44	2.21	1.57	1651003-4

Tyco Electronics AMP
Authorized Distributor

Eurocard DIN Connectors

DIN Connectors (Mtg. Pin Size - .025" (.64mm) Square)

Material: • Housing: Polyester, grey 94V-0 rated • Contacts: Phosphor bronze and copper alloy

No. of Rows	No. of Pins	Dimension - Inch (mm) A	B	Post Length Inch (mm) C	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Type C Vertical Receptacle with Action Pin Posts								
Standard Size (PCB Thickness .093" (2.36mm) and Above)								
3	96	3.740 (95.00)	3.543 (90.00)	.521 (13.23)	A29047-ND◆	15.93	14.80	215912-4
					A29048-ND†	16.24	15.08	1-215912-4
Standard Size (PCB Thickness .062" (1.57mm) and .093" (2.36mm) and Above)								
3	96	3.740 (95.00)	3.543 (90.00)	.521 (13.23)	A29049-ND	8.65	8.04	148057-5
				.521 (13.23)	A32866-ND◆	8.23	7.65	5148057-5
				.521 (13.23)	A29052-ND◆†	13.95	11.63	1-148057-5
				.669 (16.99)	A29051-ND	8.93	8.30	148059-5
				.669 (16.99)	A32867-ND◆	8.48	7.88	5148059-5
				.669 (16.99)	A29050-ND◆†	13.24	12.30	1-148059-5
Type C Right Angle Plug with Action Pin Posts								
Standard Size (PCB Thickness .062" (1.57mm) and .093" (2.36mm) and Above)								
3	96	3.689 (93.70)	3.500 (88.90)	.114 (2.90)	A29053-ND	16.44	15.27	215605-4

◆ ***RoHS Compliant*** † Precious metal plating in contact area and for 5.08 (.200) from tip of post; gold flash on remainder of post.

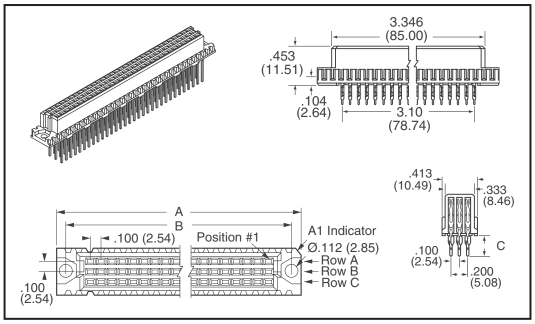

Shrouds

Shrouds are for use with all 96 position, 3 row, type C and R connectors (without mounting holes) mounted in .125" (3.18mm), .093" (2.36mm) and .062" (1.57mm) thick PC boards. Twelve interference areas are located in selected cavities. **Material:** Polyester, gray, 94V-0 rated

PC Board Thickness - Inch (mm)	Use With Post Length - Inch (mm)	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
.125 (3.18)	.521 (13.23)	.100 (2.54)	.450 (11.43)	A29058-ND	2.52	2.34	533236-4
.125 (3.18)	.669 (16.99)	.250 (6.35)	.600 (15.24)	A29059-ND	3.16	2.94	533236-5
.093 (2.36)	.521 (13.23)	.135 (3.43)	.485 (12.32)	A29060-ND	3.14	2.92	533236-7
.062 (1.57)	.521 (13.23)	.165 (4.19)	.515 (13.08)	A29061-ND	7.22	6.71	1-533236-0
With Mounting Holes							
.125 (3.18)	.521 (13.23)	.100 (2.54)	.450 (11.43)	A29062-ND	2.52	2.34	535074-1

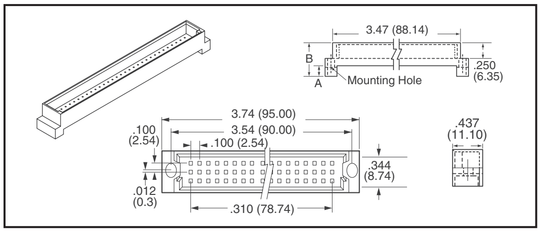

Keying Systems

Material: Polycarbonate, red, 94V-1 rated

Fig. 1

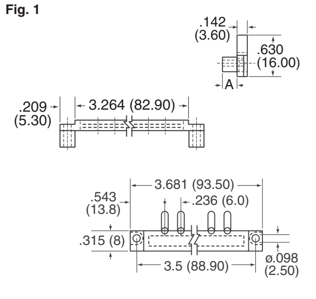

Fig. 2

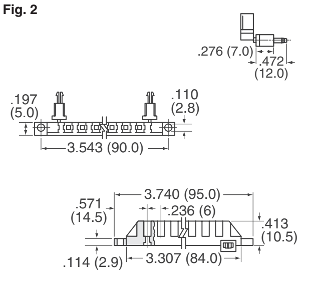

Fig.	Connector Type	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Pin Assembly Keying Strip						
1	C, D, F*, R	.236 (6.00)	A29065-ND	1.57	1.46	926495-1
	C, D, R	.165 (4.20)	A29066-ND	2.16	2.01	926495-4
Receptacle Assembly Keying Strip						
2	B, C, D, F, Q, R	—	A29067-ND†	2.08	1.94	926495-2

* For Type F Cable mount only. † Two Keying plugs are molded to the strip, additional quantities of plugs can be ordered separately.

Vertical Receptacle Housing (Use Short Point Contacts)

Material: Housing - Polycarbonate, gray, 94V-1 rated

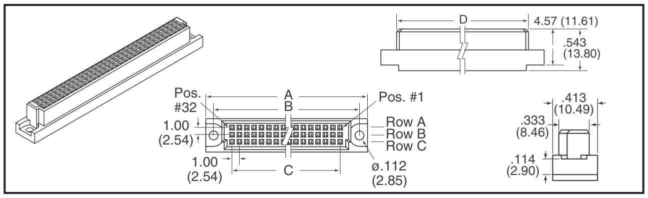

No. of Rows	No. of Pins	Dimension - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Type C									
3	96	3.740 (95.00)	3.540 (90.00)	3.100 (78.74)	3.299 (83.80)	A29054-ND	8.06	7.49	925486-1
	48	2.142 (54.40)	1.949 (49.50)	1.500 (38.10)	1.740 (44.20)	A29055-ND	6.66	6.19	926040-2
Tool (not pictured)									
Extraction Tool...						A29057-ND	76.32	—	91156-2

Two-piece Cable Clamp Assemblies

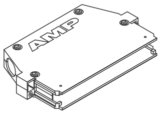

Material: Thermoplastic, gray, 94V-1 rated
Note: Kits are packaged unassembled.

Includes: Cover (shell half), Screw M 2.5 (.10) x DIN 84, Hex. Nut M2.5 (.10) DIN 439, Cable outlet closing plate, Cable Boot, Screw M 2.5 (.10) x DIN 84, Strain Relief Clamp, Fixture for 180 degrees Cable outlet

Not supplied in kit: Guide Bracket, Pin Assembly, Receptacle Assembly

A29063-ND Cable Hood Kit, Type C and Type D (96 position)............................. **$33.18/1, $770.25/25**

AVX

Connectors – DIN

Fig. 1

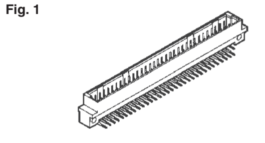

Fig. 2

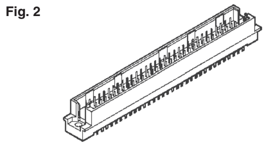

Fig. 3

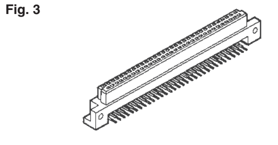

Fig. 4

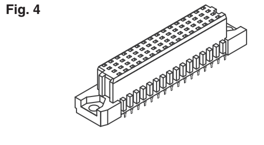

Approvals: Din 41612/Din-EN60603-2, IEC603-2, MIL-C-55302, BS 9000, BT, NFC 93.420, PTT, UTE C 93.420, UL File #E189169, CSA File #LR 108833

Fig.	No. of Rows	No. of Pins	Style	Digi-Key Part No.	Price Each 1	25	50	100	AVX Part No.
Plug									
1	2	32	1/2 B	478-1945-ND	5.54	5.15	4.16	3.47	108457032002025
	2	64	B	478-1946-ND◆	3.75	3.49	2.82	2.35	108457064002025
	4	128	C Expanded	478-1947-ND◆	15.12	14.04	11.34	9.45	108457128002025
2	3	48	R High Temperature	478-1956-ND	5.74	5.33	4.31	3.59	108577096002025
	3	96	A + C fully loaded	478-4519-ND◆	3.81	3.54	2.86	2.38	108457096002026
	3	96	A + B + C fully loaded	478-4518-ND◆	5.12	4.76	3.85	3.21	168457096002025
	3	96	R	478-1950-ND◆	3.70	3.44	2.78	2.31	108477096001025
Receptacle									
3	3	96	R	478-1949-ND◆	6.78	6.30	5.09	4.24	208477096002025
	4	128	R Expanded	478-1951-ND	14.90	13.84	11.18	9.31	208477128002025
4	3	96	A + C fully loaded	478-4520-ND◆	5.43	5.05	4.08	3.40	208457096001026
	3	96	A + B + C fully loaded	478-4521-ND◆	5.04	4.68	3.78	3.15	208458096001025
	4	128	C Expanded Press-Fit	478-1953-ND◆	11.20	10.40	8.40	7.00	208458128001025

◆ ***RoHS Compliant***

2mm FB (Futurebus+)

Fig. 1

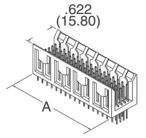

Signal Module, Vertical Pin

Fig. 2

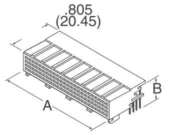

Signal Module, Right Angle Receptacle

Fig. 3

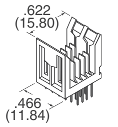

Power Module,Vertical Pin

Fig. 4

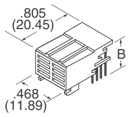

Power Module, Right Angle Receptacle

The Z-PACK 2mm FB two-piece connector system uses a modular concept and a 2mm contact pitch to provide high-density, high-speed signal and power connections for Futurebus+ and Futurebus+ "like" applications.

Product Facts:

• High-density connections; four-row and five-row, 2mm x 2mm circuit grid • Modular design for signal and power connections • Designed to meet International Specifications IEC 1076-4-0X (48B) and EIA SP3179 • Module assemblies are end-to-end stackable • Choice of solder leads or compliant press-fit leads • Flat rock receptacle tooling • Unique "cold hold" receptacle retention feature requires no tooling for lower applied cost • Integral receptacle lead organizer

Pin and Receptacle Contacts:
Duplex plated gold flash over 0.0008 (.000030) min. palladium-nickel on mating surface, 0.0038 (.000150) minimum tin-lead on solder lead, with entire contact underplated 0.0013 (.000050) nickel

Pin Contacts: Phosphor bronze

Housing: Liquid crystal polymer

Fig.	Description	No.of Pos.	Dimension – Inch (mm) A	Dimension – Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
4	With Solder Leads	8	—	.46 (11.8)	A3285-ND	7.61	6.89	536613-1
	With Compliant Press-Fit Leads	8	—	—	A3286-ND	7.23	6.56	536614-1
RoHS Compliant								
1	With Solder Leads	24	.468 (11.88)	—	A31555-ND	3.57	3.22	5536501-1
		48	.940 (23.88)	—	A31556-ND	6.54	5.89	5536501-2
		96	1.885 (47.88)	—	A31557-ND	13.74	12.37	5536501-3
		192	3.775 (95.89)	—	A31558-ND	20.79	18.72	5536501-4
	With Compliant Press-Fit Leads	24	.468 (11.88)	—	A31559-ND	3.18	2.87	5536504-1
		48	.940 (23.88)	—	A31560-ND	7.53	6.78	5536504-2
		96	1.885 (47.88)	—	A31561-ND	11.94	10.75	5536504-3
		30	.468 (11.88)	—	A97832-ND ***NEW!***	3.47	3.15	5223002-1
		60	.940 (23.88)	—	A97833-ND ***NEW!***	5.75	5.21	5223002-2
		120	1.885 (47.88)	—	A97834-ND ***NEW!***	10.49	9.51	5223002-4
2	With Solder Leads	30	.468 (11.88)	.524 (13.3)	A97838-ND ***NEW!***	3.84	3.48	5223004-1
		60	.940 (23.88)	.524 (13.3)	A97839-ND ***NEW!***	7.42	6.72	5223004-2
		240	3.775 (95.88)	.524 (13.3)	A97884-ND ***NEW!***	20.14	18.24	5223004-8
		30	.468 (11.88)	.524 (13.3)	A97840-ND ***NEW!***	3.76	3.41	5223007-1
		60	.940 (23.88)	.524 (13.3)	A97841-ND ***NEW!***	6.44	5.84	5223007-2
		24	.468 (11.88)	.46 (11.8)	A31562-ND	3.76	3.41	5536507-1
		48	.940 (23.88)	.46 (11.8)	A31563-ND	6.44	5.84	5536507-2
		96	1.885 (47.88)	.46 (11.8)	A31564-ND	11.45	10.37	5536507-3
		192	3.775 (95.89)	.46 (11.8)	A31565-ND	20.14	18.24	5536507-4

Fig.	Description	No.of Pos.	Dimension – Inch (mm) A	Dimension – Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	With Solder Leads	120	2.36 (59.88)	.46 (11.8)	A31566-ND	13.97	12.65	5536507-6
		24	.468 (11.88)	.46 (11.8)	A31567-ND	5.19	4.71	5536510-1
		48	.940 (23.88)	.46 (11.8)	A31568-ND	7.39	6.70	5536510-2
		96	1.885 (47.88)	.46 (11.8)	A31569-ND	11.47	10.40	5536510-3
		192	3.775 (95.89)	.46 (11.8)	A31570-ND	23.24	21.05	5536510-4
	With Compliant Press-Fit Leads	30	.468 (11.88)	.524 (13.3)	A97842-ND ***NEW!***	3.76	3.41	5223008-1
		60	.940 (23.88)	.524 (13.3)	A97843-ND ***NEW!***	6.44	5.84	5223008-2
		120	1.885 (47.88)	.524 (13.3)	A97844-ND ***NEW!***	11.45	10.37	5223008-4
		240	3.775 (95.89)	.524 (13.3)	A97845-ND ***NEW!***	20.14	18.24	5223008-8
		24	.468 (11.88)	—	A31571-ND	3.76	3.41	5536511-1
		48	.940 (23.88)	—	A31572-ND	6.44	5.84	5536511-2
		96	1.885 (47.88)	—	A31573-ND	11.47	10.40	5536511-3
		192	3.775 (95.89)	—	A31574-ND	20.19	18.29	5536511-4
3	With Solder Leads	8	—	—	A31575-ND	3.71	3.36	5536600-1
	With Compliant Press-Fit Leads	8	—	—	A31576-ND	3.71	3.36	5536603-1
4	With Solder Leads	8	—	.46 (11.8)	A31577-ND	4.53	4.11	5536607-1
			—	.46 (11.8)	A31578-ND	6.49	5.88	5536613-1
	With Compliant Press-Fit Leads	8	—	—	A31579-ND	6.73	6.10	5536614-1
—	Vertical, 5 Row Signal Shroud	30	—	—	A97835-ND ***NEW!***	2.04	1.85	223041-1
		60	—	—	A97836-ND ***NEW!***	6.10	5.52	223041-2
		90	—	—	A97837-ND ***NEW!***	6.23	5.64	223041-3

2mm HM PCB

RoHS COMPLIANT

Features: • Z-PACK 2mm HM connectors comply with the requirements of IEC 917 and IEC 61076-4-101 • Complies with IEC 950 in mated condition • Signal Contact Rating 1.5A
Applications: • Telecommunication, computer and instrumentation applications

Dimensions in mm

Fig. 1

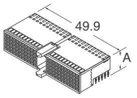

Fig. 2

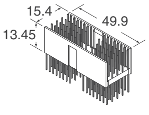

Fig. 3 ***NEW!***

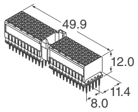

Type A Shown

Fig. 4 ***NEW!***

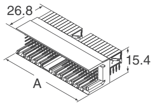

Type A Shown

Fig. 5

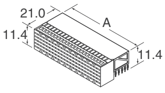

Shielded Recept. Shown

Fig. 6

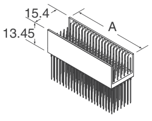

Fig. 7 ***NEW!***

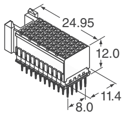

Fig. 8 ***NEW!***

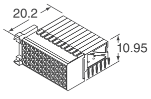

Unshielded Recept. Shown

Fig. 9 ***NEW!***

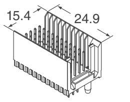

Fig. 10 ***NEW!***

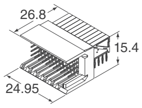

Fig. 11 ***NEW!***

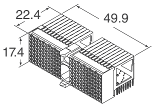

Unshielded Recept. Shown

Fig. 12 ***NEW!***

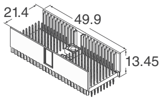

Type D Shown

Fig. 13 ***NEW!***

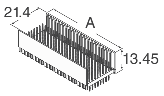

Type E Shown

Fig. 14 ***NEW!***

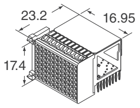

Shielded Recept. Shown

Fig. 15 ***NEW!***

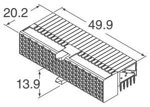

Unshielded Recept. Shown

Fig.	No. of Pos.	No. of Rows	Gender	Dim. A (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Type A								
1	110	5	Shielded Receptacle	11.4	A31550-ND	11.47	7.19	5352068-1
	110	5	Receptacle	10.95	A97855-ND ***NEW!***	9.17	8.31	5100147-1
2	100	5 + 1	Header	—	A97881-ND ***NEW!***	8.85	8.02	5352352-1
	110	5	Header	—	A97846-ND ***NEW!***	6.92	6.27	5100143-1
	110	5	Header	—	A97812-ND ***NEW!***	11.05	10.01	5106164-1
	154	5 + 2	Header	—	A31547-ND	10.86	9.78	5188834-1
	154	5 + 2	Header	—	A97852-ND ***NEW!***	15.77	14.28	5106509-
	154	5 + 2	Header	—	A97847-ND ***NEW!***	9.59	8.69	5100668-1
	154	5 + 2	Header	—	A97880-ND ***NEW!***	9.59	8.69	5352332-1
3	110	5	Receptacle	—	A97873-ND ***NEW!***	16.03	14.52	5106773-1
4	110	5	Header	49.9	A97870-ND ***NEW!***	24.75	22.42	5106015-1
Type B								
3	125	5	Receptacle	—	A97874-ND ***NEW!***	24.75	22.42	5106774-1

Fig.	No. of Pos.	No. of Rows	Gender	Dim. A (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
4	95	5	Header	37.9	A97825-ND ***NEW!***	19.40	17.57	5352406-1
	110	5	Header	43.9	A97824-ND ***NEW!***	22.47	20.36	5352131-1
	125	5	Header	49.9	A97871-ND ***NEW!***	32.28	29.24	5106014-1
5	95	5	Shielded Receptacle	37.9	A31554-ND	9.94	6.23	5352171-1
	110	5	Shielded Receptacle	43.9	A31553-ND	11.47	7.19	5352152-1
	125	5	Receptacle	49.9	A97856-ND ***NEW!***	10.39	9.41	5100145-1
	125	5	Shielded Receptacle	49.9	A97858-ND ***NEW!***	13.01	11.79	5352069-1
6	125	5	Header	49.9	A97853-ND ***NEW!***	12.53	11.36	5106165-1
	125	5	Header	49.9	A97848-ND ***NEW!***	7.87	7.13	5100141-1
	154	5 + 2	Header	43.9	A31548-ND	10.86	9.78	5188835-1
	154	5 + 2	Midplane, Header	43.9	A31552-ND	14.67	13.21	5352128-1
	175	5 + 2	Header	49.9	A97849-ND ***NEW!***	11.00	9.96	5100669-1
	175	5 + 2	Header	49.9	A97854-ND ***NEW!***	17.91	16.23	5106510-1

(Continued)

AMP Z-Pack Connectors 2mm HM PCB Connectors *(Cont.)*

RoHS COMPLIANT

Fig.	No. of Pos.	No. of Rows	Gender	Dim. A (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
—	133	5 + 2	Header	—	A31549-ND	9.45	8.51	5352033-1
	133	5 + 2	Midplane, Header	—	A31551-ND	14.55	13.10	5352127-1
NEW! Type A/B NEW!								
6	127	5 + 2	Header	37.9	A97831-ND	9.20	8.33	5646532-1
	146	5 + 2	Header	43.9	A97814-ND	10.49	9.51	5646533-1
	169	5 + 2	Header	49.9	A97813-ND	11.93	10.80	5646529-1
NEW! Type C NEW!								
7	55	5	Receptacle	—	A97875-ND	8.00	7.25	5106775-1
8	55	5	Shielded Receptacle	—	A97815-ND	10.39	9.41	5352115-1
	55	5	Receptacle	—	A97857-ND	4.96	4.49	5100161-1
9	55	5	Header	—	A97850-ND	4.61	4.18	5100159-1
	77	5 + 2	Header	—	A97851-ND	7.29	6.60	5106081-1
10	55	5	Header	—	A97872-ND	14.89	13.49	5106012-1
NEW! Type D NEW!								
11	176	8	Receptacle	—	A97865-ND	19.08	17.28	5646442-1
	176	8	Shielded Receptacle	—	A97868-ND	23.69	21.46	5646486-1
12	176	8	Header	—	A97861-ND	10.97	9.94	5646346-1
	220	8 + 2	Header	—	A97818-ND	18.50	16.76	5646356-1
NEW! Type D/E NEW!								
11	200	8	Receptacle	—	A97821-ND	14.42	13.06	5646728-1
	200	8	Shielded Receptacle	—	A97823-ND	35.91	32.52	5646759-1
12	200	8 + 2	Header	—	A97820-ND	18.13	16.42	5646951-1
NEW! Type E NEW!								
11	200	8	Shielded Receptacle	—	A97869-ND	26.34	23.86	5646487-1
	200	8	Receptacle	—	A97866-ND	21.62	19.59	5646445-1
13	200	8	Header	49.9	A97862-ND	16.67	15.10	5646347-1
	250	8 + 2	Header	49.9	A97863-ND	20.99	19.01	5646357-1

Fig.	No. of Pos.	No. of Rows	Gender	Dim. A (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
NEW! Type F NEW!								
13	88	8	Header	24.9	A97864-ND	6.92	6.27	5646457-1
	88	8 + 2	Header	24.9	A97819-ND	6.92	6.27	5646513-1
14	88	8	Shielded Receptacle	—	A97822-ND	17.54	15.89	5646492-1
	88	8	Receptacle	—	A97867-ND	9.51	8.62	5646446-1
15	95	5	Shielded Receptacle	—	A97860-ND	15.16	13.73	5646488-1
	110	5	Shielded Receptacle	—	A97859-ND	17.62	15.96	5646489-1
	110	5	Shielded Receptacle	—	A97817-ND	20.64	18.70	5646547-1
	125	5	Receptacle	—	A97816-ND	16.01	14.50	5646574-1

Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
NEW! Shrouds NEW!				
154 Positions, Type A Receptacle	A97826-ND	2.97	2.69	646478-5
175 Positions, Type B Receptacle	A97827-ND	2.94	2.67	646479-5
154 Positions, Type B Receptacle	A97828-ND	4.74	4.30	646482-5
127 Positions, Type A/B Receptacle	A97829-ND	3.15	2.86	646483-5
150 Positions, Type A/B Receptacle	A97830-ND	3.15	2.86	646484-5
Male Coding Keys				
Cadmium Yellow	A29828-ND	.87	.80	5-100525-6
Brilliant Blue	A29829-ND	.87	.80	3-100525-2
Nut Brown	A97876-ND ***NEW!***	.95	.87	100525-3
Strawberry Red	A97877-ND ***NEW!***	.95	.87	100525-9
Female Coding Keys				
Cadmium Yellow	A29833-ND	.87	.80	5-100526-6
Brilliant Blue	A29834-ND	.87	.80	3-100526-2
Nut Brown	A97878-ND ***NEW!***	.87	.80	100526-3
Strawberry Red	A97879-ND ***NEW!***	.95	.87	100526-9

NEW! Universal Power Modules

RoHS COMPLIANT

Material and Finish:
- Housing: PBT, Natural Color, UL 94V-0

Specifications:
- Durability: 250 Cycles
- Vertical Standard Power 10A
- Right Angle High Power 16A

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	Vertical Receptacle	A97882-ND	4.56	4.13	5223955-2
2	Right Angle Header	A97883-ND	5.94	5.38	5223961-1

Fig. 1

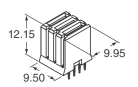

Fig. 2

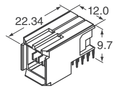

NEW! .050 Series PCI Connectors

RoHS COMPLIANT

Product Facts:
- High density .050 [1.27] centerline contact spacing • Easy mating of high circuit count daughter boards • Polarizing web for positive board-to-connector registration

Performance Characteristics:
- **Durability:** Tested to 100 mating cycles • **Current Rating:** 1A maximum • **Voltage Rating:** 203 VAC • **Thermal Shock:** -55°C ~ 85°C for 5 cycles

Fig. 1

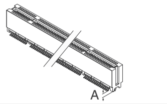

Fig. 2

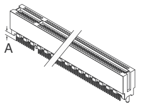

Fig.	No. of Dual Positions	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	92	.095 (2.41)	A97895-ND	7.69	4.82	6489934-1
	60	.180 (4.57)	A97907-ND	4.98	3.13	5145098-1
	92	.180 (4.57)	A97896-ND	5.46	3.42	5145113-1
2	60	.100 (2.54)	A97905-ND	3.02	1.90	5145154-4
	60	.125 (3.18)	A97906-ND	3.02	1.90	5145154-8
	92	.100 (2.54)	A97908-ND	3.59	2.25	5145165-4
	92	.125 (3.18)	A97894-ND	3.58	2.25	5145165-8

NEW! PCI Express Connectors

RoHS COMPLIANT

Tyco Electronics Card Edge Connector for PCI Express applications is a 1mm centerline card edge product designed to meet PCI SIG requirements for PCI Express architecture. PCI Express architecture is a high performance point to point full duplex I/O Bus.

Ratings:
- **Operating:** -40°C ~ 85°C
- **Durability:** 50 Cycles
- **Current Rating:** 1.1A
- **Voltage Rating:** 50VAC

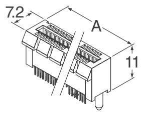

No. of Dual Positions	Dim. A (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
32	39	A97898-ND	2.57	1.62	2-1612163-2
18	25	A97897-ND	2.22	1.40	4-1612163-1
49	56	A97899-ND	4.12	2.59	4-1612163-3
82	89	A97900-ND	6.04	3.79	4-1612163-4
18	25	A97901-ND	2.26	1.42	5-1612163-1
32	39	A97902-ND	2.99	1.88	5-1612163-2
49	56	A97903-ND	4.12	2.59	5-1612163-3
82	89	A97904-ND	6.04	3.79	5-1612163-4

HIROSE ELECTRIC CO.,LTD.

2mm Hard Metric Connector

RoHS COMPLIANT

Applications: Switchboards, transmission systems, Cellular base stations, industrial computer boards, measuring instruments, control equipment.
Product Specifications: • Rated Current: 1.5A **• Operating Temperature:** -55 ~ 85ºC **• Rated Voltage:** AC 300V

Material: Headers and Receptacle - Insulator: PBT resin, Gray **Terminal:** Phosphor bronze **PCN21A - Contact Area:** Nickel base, gold plating **PCB Leads:** Nickel base, gold plating **Receptacle Shield:** Phosphor bronze **PCN21B - Contact Area:** Nickel base, gold plating **PCB Leads:** Nickel base, tin plating UL94V-0

Type A Female

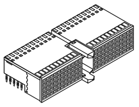

Type A Male

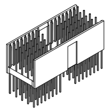

Type B Female

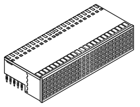

Type B Male

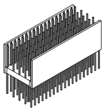

Type C Male

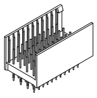

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	Hirose Part No.
110	Recept. Style A, Female, without Ground Plate	H3208-ND	7.38	5.97	PCN21B-110SA-2PF
110	Header Style A, Male, Short Pin	H3200-ND	4.84	3.76	PCN21B-110PA-2PF
110	Header Style A, Male, Short Pin with Ground	H3201-ND	5.92	4.59	PCN21B-110PA-2PF-G
110	Recept. Style B, Female, without Ground Plate	H3210-ND	7.36	5.95	PCN21B-110SB-2PF
125	Recept. Style B, Female, without Ground Plate	H3209-ND	8.09	6.54	PCN21B-125SB-2PF
110	Header Style B, Male, Short Pin	H3204-ND	6.70	5.20	PCN21B-110PB-2PF
110	Header Style B, Male, Short Pin with Ground	H3205-ND	5.89	4.57	PCN21B-110PB-2PF-G
125	Header Style B, Male, Short Pin	H3202-ND	5.31	4.12	PCN21B-125PB-2PF

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	Hirose Part No.
125	Header Style B, Male, Short Pin with Ground	H3203-ND	6.50	5.04	PCN21B-125PB-2PF-G
55	Header Style C, Male, Short Pin	H3206-ND	3.22	2.50	PCN21B-55PC-2PF
55	Header Style C, Male, Short Pin with Ground	H3207-ND	3.68	2.86	PCN21B-55PC-2PF-G
—	Coding Key for Male Header, Yellow - 3.3V	H3213-ND	.60	.36	PCN21-P-CK(A)
—	Coding Key for Female Recept., Yellow - 3.3V	H3214-ND	.55	.33	PCN21-S-CK(A)
—	Coding Key for Male Header, Blue - 5V	H3215-ND	.60	.36	PCN21-P-CK(B)
—	Coding Key for Female Recept., Blue - 5V	H3216-ND	.55	.33	PCN21-S-CK(B)

3M Mini Serial Attached SCSI (miniSAS) Connectors

• 6 Gb/s input/output connector for server applications • Meets SFF-8086 Specification • Meets SAS Specification SAS-1.1
Physical Specifications: • Insulation Material: High Temperature Thermoplastic Flammability: UL 94V-0 Color: Black • Contact Material: Copper Alloy • Wiping Area Plating: 30µ" Gold • Solder Tails Plating: 100µ" Matte Tin • Backshell Material: Stainless Steel **Electrical Specifications:** • Current Rating: Per Contact: 0.5A • Insulation Resistance: 10^3MΩ minimum • Operating Temperature: -20°C ~ 85°C

Dimensions in mm

Fig. 1

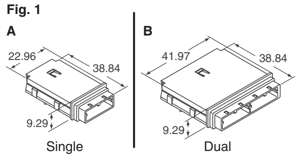

Single Dual

Fig. 2

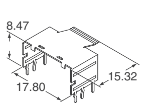

Fig. 3

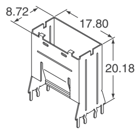

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
Right Angle Surface Mount Receptacle/Metal EMI Cage							
—	26	Mini SAS Right Angle Connector	3M5636-ND	4.35	3.77	3.05	8A26-2030-LJ
1A	26	Single Key Shell	3M5643-ND	3.36	2.92	2.36	8C26-14000
1B	26	Dual Key Shell	3M5644-ND	4.65	4.03	3.26	8C26-24400
Right Angle Receptacle/Right Angle Shell							
—	36	Mini SAS Right Angle Connector	3M5638-ND	4.56	3.96	3.20	8A36-2030-LJ
2	36	Dual Key R/A Press Fit Shell	3M5641-ND	.90	.78	.63	8B36-2411
2	36	Dual Key R/A Thru-Hole Shell	3M5642-ND	.90	.78	.63	8B36-2421
Vertical Receptacle/Vertical Shell							
—	36	Mini SAS Vertical Connector	3M5637-ND	4.56	3.96	3.20	8A36-1030-LJ
3	36	Dual Key Vertical Press Fit Shell	3M5639-ND	.90	.78	.63	8B36-1410
3	36	Dual Key Vertical Thru-Hole Shell	3M5640-ND	.90	.78	.63	8B36-1420

Serial Attached SCSI (SAS) Connectors

Dimensions in Inch (mm)

Fig. 1

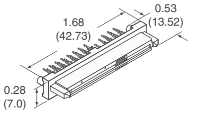

Fig. 2

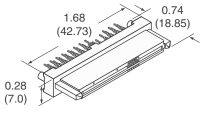

Fig.3

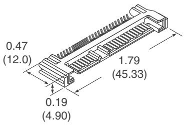

Fig. 4

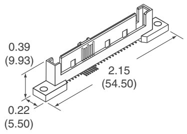

Fig. 5

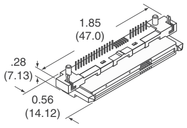

- 3.0Gbps input/output connector for backplane applications
- Two contact mating levels for early-mate and late-break allows "blind mating" or "hot swap" applications
- Capable of accepting HDD fitted with SAS or Serial Advanced Technology Attachment (SATA) Header
- Meets SFF-8482 Specifications
- Meets SAS Specification, SAS-1.1

SPECIFICATIONS:
- **Material:** High Temperature Thermoplastic
- **Flammability:** UL 94V-0
- **Color:** Black
- **Contact Material:** Copper Alloy
- **Plating: Underplating:** 50 ~ 80µ" Nickel Wiping Area: 30 ~ 40µ" Gold Solder Tails: 100 ~ 200µ" Tin
- **Current Rating:** Power Pin: 1.5A
- **Operating Temperature:** 0°C ~ 55°C

Fig.	No. Positions	Description	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
1	29	Vertical Socket	3M5485-ND	2.91	2.45	2.22	SBR-ST-29-P-ML
2	29	Elevated Vertical Socket	3M5486-ND	2.91	2.45	2.22	SBR-EV-29-P-ML
3	29	Straddle Mount Plug	3M5487-ND	2.91	2.45	2.22	SBH-ST-29-SA-ML
4	29	Standard SMT Plug	3M5488-ND	2.91	2.45	2.22	SBH-ST-29-SM-ML
5	29	Right Angle Socket	3M5489-ND	2.91	2.45	2.22	SBR-RA-29-S-ML

MetPak™ 2-FB Headers and Sockets

MetPak™ 2-FB Inverse Headers and Sockets: • 16mm to 18.5mm high-profile stacking • Footprint compatible with standard Futurebus+® • Ideal for hot swapping applications • End-to-end stackable • Mates with MP2-R Series for parallel stacking applications **MetPak 2-FB Power Headers and Sockets:** • 6.5 Amps per contact • Early mate late break (EMLB) for hot swap or selective loading options • End-to-end stackable • Futurebus+ compatible **MetPak 2-FB Headers and Sockets:** • End-to-end stackable • Early mate late break for hot swapping (header) • Meets global IEC 61076-4-104 Futurebus+ standard (socket) • Monoblockable **Specifications:** • Material: High Temperature LCP • Flammability: UL 94V-0 • Color: Beige • Current Rating: Signal: 1.5A - All contacts simultaneously (6.5A per power socket contact at 70°C for power headers and sockets) • Withstanding Voltage: 1,000VAC • Temperature Rating: -55°C ~ 125°C

Fig. 1

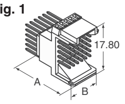

Fig. 2

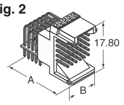

Fig. 3

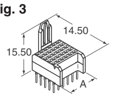

Fig. 4

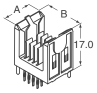

Fig. 5

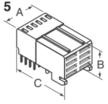

Fig. 6

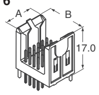

Fig. 7

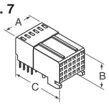

Fig. 8

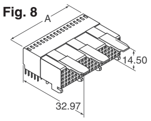

Fig.	No. of Pos.	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
2-FB Inverse Headers and Sockets									
1	30	17.25	11.95	–	3M5507-ND	3.02	2.30	2.08	MP2-PS030-51S1-LR
2	30	24.8	11.95	–	3M5508-ND	3.14	2.39	2.16	MP2-P030-51M1-LR
	120	24.8	47.95	–	3M5506-ND	9.67	7.35	6.65	MP2-P120-51M1-LR
3	30	11.95	–	–	3M5509-ND	1.62	1.24	1.12	MP2-R030-51P1-LR
2-FB Power Headers and Sockets									
4	8	11.95	15.8	–	3M5497-ND	1.06	.81	.73	MP2-HP08-41P1-KR
	10	11.95	17.8	–	3M5498-ND	4.18	3.18	2.88	MP2-HP10-51P1-KR
5	8	11.95	11.8	21	3M5490-ND	1.44	1.10	.99	MP2-SP08-41M1-LR
	10	11.95	13.8	23	3M5491-ND	1.64	1.25	1.13	MP2-SP10-51M1-LR
2-FB Headers and Sockets									
6	24	11.95	15.8	–	3M5499-ND	1.56	1.19	1.08	MP2-H024-41S1-S-LR
	30	11.95	17.8	–	3M5500-ND	1.81	1.38	1.25	MP2-H030-51S1-S-LR
	24	11.95	15.8	–	3M5501-ND	1.56	1.19	1.08	MP2-H024-41P1-S-KR
	30	11.95	17.8	–	3M5502-ND	1.81	1.38	1.25	MP2-H030-51P1-S-KR
7	24	11.95	11.8	21	3M5492-ND	1.58	1.21	1.09	MP2-S024-41M1-C-LR
	30	11.95	13.8	23	3M5493-ND	1.73	1.32	1.19	MP2-S030-51M1-C-LR
	90	35.95	13.8	23	3M5494-ND	4.26	3.24	2.94	MP2-S090-51M1-C-LR
	120	47.95	13.8	23	3M5495-ND	6.82	5.19	4.70	MP2-S120-51M1-C-LR
	150	59.95	13.8	23	3M5496-ND	8.59	6.53	5.91	MP2-S150-51M1-C-LR
8	90	35.95	–	–	3M5503-ND	6.05	4.60	4.17	MP2-S090G-51M1-LR
	120	47.95	–	–	3M5504-ND	7.11	5.41	4.90	MP2-S120G-51M1-LR
	150	59.95	–	–	3M5505-ND	8.94	6.80	6.15	MP2-S150G-51M1-LR

FCI SATA Connectors

Serial ATA (SATA) provides data speeds up to 3Gbits per second while utilizing a smaller number of contacts. SATA is the next generation standard interface for all mainstream storage, data, notebook, and desktop applications.

SATA provides many significant advantages over the current parallel ATA standard. Improved density, along with lower voltage transmission eliminates the requirement for bulky ribbon cables. The result is much better airflow through the device utilizing this interconnect. In addition, SATA utilizes a first mate, last break contact arrangement for hot plugging capability.

Fig. 1

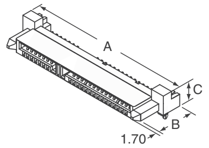

Fig. 2

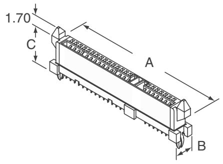

Fig. 3

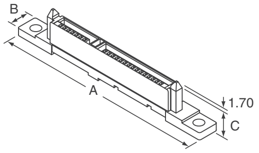

Fig. 4

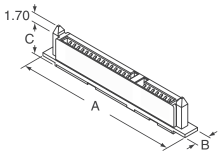

Fig.	No. of Positions	Dimensions - mm A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Receptacle Right Angle SMT									
1	22	42.40	10.70	5.42	609-1028-ND	3.15	1.95	1.72	10029364-001LF
		49.00	13.00	3.50	609-1029-ND	2.24	1.33	1.18	10031569-001LF
		42.40	10.70	5.50	609-1035-ND	5.65	3.67	3.36	10034814-001LF
Receptacle Vertical PC Mount									
2	22	40.43	5.00	8.15	609-1030-ND	3.72	2.31	2.09	10017660-001LF
		40.43	5.00	8.15	609-1031-ND	9.52	5.18	4.63	10017660-002LF
		40.43	5.00	8.15	609-1032-ND	4.49	2.44	2.18	10022676-001LF
		40.43	5.00	8.15	609-1033-ND	5.81	3.16	2.83	10022676-002LF
Receptacle Vertical SMT									
3	22	45.75	5.50	8.15	609-1034-ND	3.29	1.79	1.60	10029065-001LF
		55.77	5.50	8.15	609-1036-ND	5.52	3.58	3.27	10045103-001LF
Cable Receptacle Vertical PC Mount									
4	22	43.50	3.80	8.15	609-1037-ND	3.06	1.88	1.63	10043820-001LF

MetPak™ HSHM Press-Fit Socket Connectors

Features: • Up to 5 Gb/s data rates • Low crosstalk at high frequencies • 50/100Ω (single ended/differential) impedance • Modular/scalable format IEC 61076-4-101 • 63 mated lines per linear inch • Dual beam contact construction for high reliability • End-to-end stackable with 5 row 3M MetPak CP2, HM and HSHM sockets • Mates with 3M MetPak HSHM headers

Specifications: Insulation: • Material: High Temperature Thermoplastic (LCP) • Flammability: UL94V-0 **Contact:** • Material: Copper Alloy • Plating: TR30 or TR40B

Insulation Resistance: 10^4MΩ at 100VDC **Current Rating**: 1A at 70°C signal **Withstanding Voltage**: 750 V_{RMS} **Temperature Ratings**: -55°C ~ 125°C

No. of Pos.	High Speed Application	Plating	Digi-Key Part No.	Price Each 1	100	3M Part No.
95	Row	30µ" Gold	3M5655-ND	100.53	76.37	HSHM-S095B1-5AP1-TG30
	Coaxial & Column	30µ" Gold	3M5656-ND	100.53	76.37	HSHM-S095B4-5AP1-TG30
	Row	5µ" Gold	3M5657-ND	92.35	70.16	HSHM-S095B1-5AP1-TR40B
	Coaxial & Column	5µ" Gold	3M5658-ND	100.53	76.37	HSHM-S095B4-5AP1-TR40B

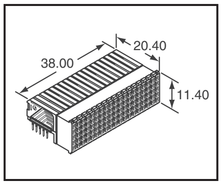

MetPak™ CP2 Press-Fit Connectors

Features:
- CompactPCI® combines the benefits of PCI desktop architecture with the ruggedness of the 3U and 6U IEEE Eurocard form factor popularized by the VME bus • Designed according to IEC 61076-4-101 and IEC 917 standards • Meets CPCI application requirements • "Eye of the Needle" compliant pin press-fit design reduces manufacturing time and cost

Specifications:
Insulation: • Material: Glass Filled Polyester (PBT) • Flammability: UL94V-0 **Contact:** • Material: Copper Alloy **Plating**: • Underplate: Nickel • Wiping Area: 30µ" (0.79µm) Gold-MIL-G-45204, Type II • Tail: Tin Lead

Insulation Resistance: 10GΩ (Minimum) **Current Ratings**: 1A at 70°C **Test Voltage**: 750VAC (rms) **Temperature Ratings**: -55°C ~ 125°C

PCB Data: • Recommended PCB hole platings: Cu 25-50µm, Sn or SnPb <10µm • PCB Thickness: 1.4 ~ 5.6mm • Press-In Force: 26±6N/pin on nominal hole diameter (0.6±0.05mm) • Retention Force: 20±5N/pin on nominal hole diameter (0.6±0.05mm)

Fig. 1

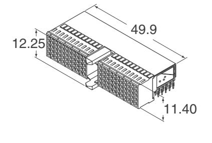

Fig. 2

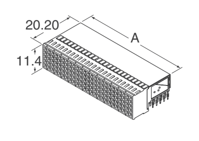

Fig. 3

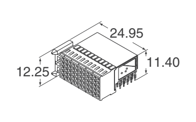

Fig. 4

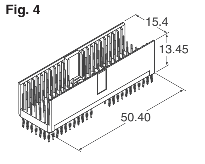

Fig. 5

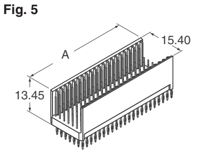

Fig. 6

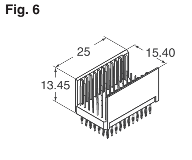

Fig.	No. of Positions	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
Sockets							
1	110	—	3M5570-ND	4.26	3.59	3.24	CP2-SA110-G1-TG30
2	110	44	3M5571-ND	4.26	3.59	3.24	CP2-SB110-G1-TG30
2	125	50	3M5572-ND	4.78	4.03	3.64	CP2-SB125-G1-TG30
3	55	—	3M5573-ND	2.48	2.09	1.89	CP2-SC055-G1-TG30
Headers							
4	110	—	3M5574-ND	4.78	4.03	3.64	CP2-HA110-GE1-TG30
5	110	44.4	3M5575-ND	4.78	4.03	3.64	CP2-HB110-GE1-TG30
5	125	50.4	3M5576-ND	5.45	4.59	4.14	CP2-HB125-GE1-TG30
6	55	—	3M5577-ND	2.39	2.02	1.82	CP2-HC055-GE1-TG30
Coding Keys for Fig. 1 and 4 (Yellow)							
For 3M5570-ND			3M5578-ND	.35	.30	.27	CP2-K1278-CY-F
For 3M5574-ND			3M5579-ND	.35	.30	.27	CP2-K3456-CY-M
Lower Shields for Sockets							
110 Positions, For 3M5570-ND			3M5580-ND	1.14	.97	.87	CP2-GSA-L
110 Positions, For 3M5571-ND			3M5581-ND	1.00	.84	.76	CP2-GSB22-L
125 Positions, For 3M5572-ND			3M5582-ND	1.14	.97	.87	CP2-GSB25-L
55 Positions, For 3M5573-ND			3M5583-ND	.54	.46	.42	CP2-GSC-L
Shrouds for Headers							
110 Positions, For 3M5574-ND			3M5584-ND	.46	.39	.35	CP2-HSA110-1
110 Positions, For 3M5575-ND			3M5585-ND	.29	.25	.23	CP2-HSB110-2
125 Positions, For 3M5576-ND			3M5586-ND	.50	.42	.38	CP2-HSB125-1
55 Positions, For 3M5577-ND			3M5587-ND	.27	.23	.21	CP2-HSC055-4

Hard Metric Compact PCI Connectors

Designed for the Telecommunications industry to replace the DIN 41612 Series of 2 piece connectors. It is much higher density than the older 4162 and the IEC Specification allows for greater standardization. **Specifications:** • **Insulator Material:** Liquid Crystal Polymer (LCP) UL94V-0 • **Contact Material:** Phosphor Bronze • **Current Rating:** 1 Amp • **Dielectric Withstanding Voltage:** AC 1000V for 1 Minute • **Insulator Resistance:** 1000MΩ Min. at DC 500V • **Contact Resistance:** 30mΩ Maximum at DC 100mA • **Operating Temperature:** -65°C ~ 125°C

Type B Female

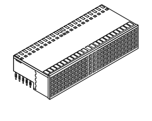

Type B Male

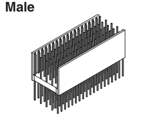

Type C Female

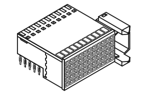

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	Sullins Part No.
95	Type B19 Female HM Unshielded	S3105-ND	6.07	5.50	2B19F955F001-0-H
154	Type B22 Male HM CPCI Telephony	S3111-ND	6.89	6.24	2B22M154P1013-1-H
125	Type B25 Female HM Shielded	S3112-ND	9.41	8.52	2B25F1255F001-1-H
125	Type B25 Female HM Unshielded	S3113-ND	7.16	6.48	2B25F1255F001-0-H
175	Type B25 Male HM	S3114-ND	7.02	6.36	2B25M175P1001-1-H
55	Type C Female HM Unshielded	S3115-ND	4.40	3.99	2CF555F001-0-H

2mm Hard Metric

Specifications:
Current Rating: 1.0A/contact/70°C • Voltage Rating: 250V maximum • Dielectric Withstanding Voltage: 750VAC rms/minute • Insulation Resistance: 10^4MΩ minimum • Contact Resistance: 20mΩ maximum • Operating Temperature: -55°C ~ 125°C **Materials:** • Contact and Ground Return Shields: Phosphor Bronze • Insulator and Shroud: PBT 30% Glass filled, UL 94V-0 rated • Code Key: Glass filled polyester, UL 94V-0 rated **Approvals:** IEC 61076-4-101, GR-1217-CORE, ISO9001 and PICMG

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	25	100	AVX Part No.
Vertical Male							
1	154	Style A	478-1930-5-ND◆	8.56	7.76	5.50	177200154000002
	100	Style A Computer Telephony	478-1931-5-ND	8.56	7.76	5.50	177200100008002
2	154	Style B	478-1935-5-ND◆	7.16	6.48	4.59	177200154200002

◆ *RoHS Compliant*

Fig. 1

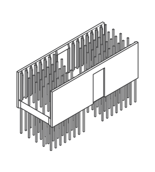

Fig. 2

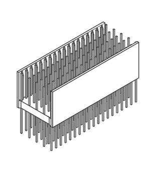

Coding Keys

Type	Color	Code No.	Voltage	Digi-Key Part No.	Price Each 1	25	100	AVX Part No.
Plug	Yellow	3456	3.3V C-PCI	478-1941-ND	.74	.68	.48	818071000101003
	Blue	1567	5.0V C-PCI	478-1942-ND	1.30	1.18	.84	818071000102006
Receptacle	Yellow	1278	3.3V C-PCI	478-1943-ND	.77	.70	.50	828071000101003
	Blue	2348	5.0V C-PCI	478-1944-ND	.77	.70	.50	828071000102006

Millipacs®

Millipacs is a standard 2.0mm Interconnect System featuring 5 and 8 contact rows and 2 rows for shielding and grounding. Millipacs is a modular system built up by a number of specific types of modules with different functions and features signal modules with up to 200 signal contacts per 50mm module (in 8 row versions). Both headers and receptacles are equipped with the well known FCI "eye of the needle" press-fit section for stable and reliable connections in the boards.

Features:

• **Housing Material:** High-temperature thermoplastic (UL94V-0) • **Contact Base Material:** Phosphor Bronze • **Operating Temperature:** -55°C ~ 125°C • **Signal Contact Current:** 1.5A @ 20°C, 1.0A @ 70°C • **Contact Resistance:** 20mΩ maximum • **Insulation Resistance:** 10,000MΩ minimum • **Approvals and Certification:** UL and CSA Certified

Fig. 1

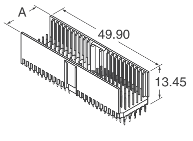

Shown with multi-purpose center

Fig. 2

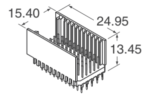

Fig. 3

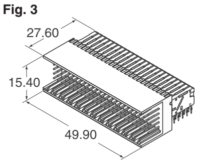

Shown without multi-purpose center

Fig. 4

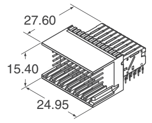

Fig. 5

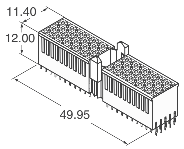

Shown with multi-purpose center

Fig. 6

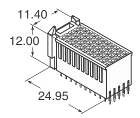

Fig. 7

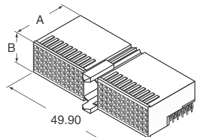

Shown with multi-purpose center

Fig. 8

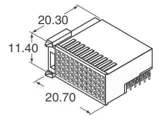

Fig.	No. of Pos.	Dimensions (mm) A	B	Multi-Purpose Center	Shield	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Vertical Headers										
1	200	21.40	—	No	Yes	609-2136-ND	17.14	11.18	10.29	HM2P88PD8111N9LF
	176	21.40	—	Yes	Yes	609-2135-ND	9.80	6.74	6.13	HM2P87PD8111N9LF
	125	15.40	—	No	No	609-2129-ND	6.64	4.42	3.96	HM2P08PD5110N9LF
	125	15.40	—	No	Yes	609-2130-ND	7.10	4.92	4.35	HM2P08PD5111N9LF
	125	15.40	—	No	Yes	609-2133-ND	7.26	5.03	4.45	HM2P65PD5111N9LF
	110	15.40	—	Yes	No	609-2125-ND	5.86	3.91	3.50	HM2P07PD5110N9LF
	110	15.40	—	Yes	Yes	609-2126-ND	6.52	4.34	3.89	HM2P07PD5111N9LF
	110	15.40	—	Yes	No	609-2127-ND	10.02	6.89	6.27	HM2P07PK5110GFLF
	110	15.40	—	Yes	Yes	609-2128-ND	8.20	5.58	5.02	HM2P07PK5114GFLF
	110	15.40	—	No	Yes	609-2134-ND	6.52	4.34	3.89	HM2P70PDE121N9LF
2	55	—	—	No	No	609-2131-ND	3.72	2.31	2.10	HM2P09PD5110N9LF
	55	—	—	No	Yes	609-2132-ND	4.09	2.54	2.30	HM2P09PD5111N9LF
Right Angle Headers										
3	125	—	—	No	No	609-2123-ND	25.47	19.11	17.84	HM2J08PE5110N9LF
	110	—	—	Yes	No	609-2122-ND	17.88	13.01	11.59	HM2J07PE5110N9LF
4	55	—	—	No	No	609-2124-ND	11.90	8.63	7.67	HM2J09PE5110N9LF
Vertical Receptacles										
5	110	—	—	Yes	No	609-2154-ND	9.76	6.72	6.11	HM2S10PE5100N9LF
	110	—	—	Yes	Yes	609-2155-ND	10.42	7.39	6.80	HM2S10PE5101N9LF
	125	—	—	No	No	609-2152-ND	16.91	11.28	10.22	HM2S02PE5100N9LF
	125	—	—	No	Yes	609-2153-ND	16.29	11.85	10.74	HM2S02PE5101N9LF
6	55	—	—	No	No	609-2156-ND	6.21	3.91	3.51	HM2S30PE5100N9LF
	55	—	—	No	Yes	609-2157-ND	6.60	4.57	4.05	HM2S30PE5101N9LF
Right Angle Receptacles										
7	110	20.30	11.40	Yes	No	609-2137-ND	8.51	5.36	4.83	HM2R01PA5100N9LF
	110	20.30	11.40	Yes	Yes	609-2138-ND	5.49	3.56	3.26	HM2R01PA5108N9LF
	110	20.30	11.40	Yes	No	609-2143-ND	9.11	5.63	4.97	HM2R10PA5100N9LF
	110	20.30	11.40	Yes	Yes	609-2144-ND	8.05	5.71	5.04	HM2R10PA5108N9LF
	176	22.30	17.40	Yes	No	609-2148-ND	15.38	10.71	9.70	HM2R87PA8100N9LF
	176	22.30	17.40	Yes	No	609-2147-ND	16.49	12.00	10.87	HM2R81PA8100N9LF
	176	23.20	17.40	Yes	Yes	609-2149-ND	11.80	8.36	7.70	HM2R87PA810FN9LF
	125	20.30	11.40	No	No	609-2139-ND	9.31	6.09	5.38	HM2R02PA5100N9LF
	125	20.30	11.40	No	Yes	609-2140-ND	5.54	3.69	3.31	HM2R02PA5108N9LF
	200	22.30	17.40	No	No	609-2150-ND	16.26	11.31	10.25	HM2R88PA8100N9LF
	200	23.20	17.40	No	Yes	609-2151-ND	11.10	7.87	7.00	HM2R88PA810FN9LF
8	55	—	—	No	No	609-2141-ND	5.10	2.98	2.73	HM2R03PA5100N9LF
	55	—	—	No	Yes	609-2142-ND	3.46	2.14	1.89	HM2R03PA5108N9LF
	55	—	—	No	No	609-2145-ND	5.44	3.18	2.91	HM2R30PA5100N9LF
	55	—	—	No	Yes	609-2146-ND	5.50	3.57	3.26	HM2R30PA5108N9LF

Metral®

FCI's Metral series is a high-speed 2mm backpanel connector system consisting of right-angle receptacles and vertical headers. The Metral series features a unique stripline structure in the receptacle and outer ground shields in the header. The stripline structure allows the Metral series to have improved signal performance when routed in either a single-ended or a differential pair configuration. **Materials:** • Housing: High-temperature, glass filled LCP, UL94V-0 • Receptacle Contacts: Beryllium-copper • Header Pins: Phosphor-bronze • Ground Shields: Phosphor-bronze • Contact Area: Selective gold over nickel • Press-Fit Tails: Tin **Mechanical Performance:** • Mating Force: 0.55N maximum per contact pair including ground and shield contacts • Withdrawal Force: 0.20N minimum per contact pair including ground and shield contacts **Electrical Performance:** • Operating Temperature: -55°C ~ 105°C • Current Rating: 1A when all contacts are powered or 3A when one contact is powered at a 30°C maximum temperature rise • Contact Resistance: 20mΩ maximum • Insulation Resistance: 1000MΩ minimum **Applications:** • Communications: Transmissions, Access, Switches, Routers • Data: Servers, Storage Enclosures • Misc: Rack-based systems

Fig. 1

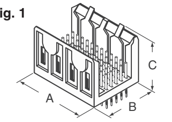

Fig. 2

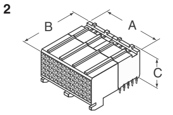

Fig. 5 ***NEW!***

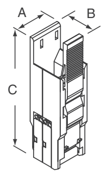

Fig. 3

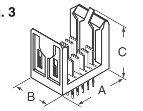

Fig. 4

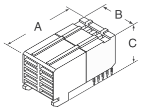

Fig.	No. of Pos.	No. of Rows	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Vertical Headers										
1	24	4	11.93	15.80	17.00	609-2492-ND	2.84	1.63	1.41	70232-111LF
	30	5	11.88	17.80	17.00	609-2490-ND	9.67	6.66	6.05	55003-101003LF
	30	5	11.88	17.80	17.00	609-2491-ND	5.15	3.29	3.00	55003-101004LF
	30	5	11.88	17.80	17.00	609-2498-ND	4.82	3.02	2.76	84817-101001LF
	30	5	11.93	17.80	17.00	609-2502-ND	3.62	2.17	1.91	89006-110LF
	48	4	23.93	15.80	17.00	609-2493-ND	4.20	2.61	2.36	70233-111LF
	60	5	23.93	17.80	17.00	609-2503-ND	3.66	2.26	1.99	89007-110LF
	96	8	23.88	24.15	17.00	609-2497-ND	14.06	10.23	9.27	74983-102001LF
	96	4	47.93	15.80	17.00	609-2494-ND	6.90	4.78	4.23	70234-111LF
Right Angle Receptacles										
2	24	4	11.95	21.15	9.35	609-2499-ND	3.33	1.95	1.70	88945-102LF
	30	5	11.95	23.15	11.35	609-2504-ND	4.13	2.33	2.11	89047-102LF
	30	5	11.98	23.70	10.80	609-2495-ND	8.61	6.10	5.38	73981-102LF
	30	5	11.98	23.85	10.80	609-2488-ND	7.70	5.24	4.72	52057-102LF
	30	5	11.98	23.85	10.80	609-2489-ND	8.03	5.46	4.82	52057-302LF
	48	4	23.95	21.15	9.35	609-2500-ND	5.72	3.46	3.16	88946-102LF
	60	5	23.95	23.15	11.35	609-2505-ND	6.39	4.26	3.82	89093-102LF
	96	4	47.95	21.15	9.35	609-2501-ND	9.32	6.10	5.38	88947-102LF
	96	8	23.98	29.70	16.80	609-2496-ND	25.08	19.19	17.56	74981-102LF
	96	8	23.98	29.70	16.80	609-2487-ND	23.84	17.34	15.45	10041744-102LF
Vertical Power Header										
3	10	5	17.80	11.93	17.00	609-2507-ND	6.90	4.27	3.83	89099-110LF
Right Angle Power Receptacle										
4	10	5	23.14	11.95	13.30	609-2506-ND	5.68	3.01	2.76	89096-102LF
NEW! Cable Connector Kits NEW!										
5	24	4	12.0	13.9	45.0	609-3115-ND	7.53	5.12	4.52	72476-1211LF
	24	4	12.0	13.9	45.0	609-3116-ND	5.33	3.55	3.18	72476-1221LF
	30	5	12.0	16.9	45.0	609-3119-ND	9.99	6.79	6.25	72478-1211LF
	30	5	12.0	16.9	45.0	609-3122-ND	8.01	5.68	5.01	72478-1221LF
	48	4	24.0	13.9	45.0	609-3117-ND	14.27	10.38	9.41	72477-1211LF
	48	4	24.0	13.9	45.0	609-3118-ND	14.70	10.69	9.69	72477-1221LF
	60	5	24.0	16.9	45.0	609-3120-ND	17.23	12.53	11.16	72479-1211LF
	60	5	24.0	16.9	45.0	609-3123-ND	17.54	12.76	11.36	72479-1221LF

PCI Express™ Card Edge Connectors

These 1.0mm pitch, vertical card edge connectors are used to implement the evolutionary PCI Express strategy in ATX or ATX-based desktop PCs and server systems. The connector family offers 1 to 16 high-speed serial PCI Express Lanes. Each serial lane supports 2.5 Gbps data rate (per direction). The connector family supports x1, x4, x8, or x16 link widths to suit different bandwidth requirements. All connectors support the PCI Express signal and power requirements, as well as auxiliary signals at the interface between system board and add-in card hardware. **Materials:** • Contact Base Metal: Copper alloy • Contact Area Finish: Gold over nickel • Solder Area Finish: Tin over nickel • Housing Material: High-temperature thermoplastic (UL 94V-0) Color: Black • Metal Board Locks: Copper alloy • Board Locks Finish: Tin over nickel **Electrical Performance:** • Contact Resistance: 30mΩ maximum initially with 10mΩ maximum change after environmental exposures • Current Rating: 1.1A minimum per pin for the 7 power pins and 7 nearest ground pins **Mechanical Performance:** • Durability Rating: 50 cycles minimum

Fig. 1

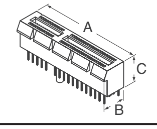

Fig. 2

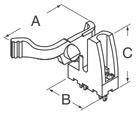

Fig. 3

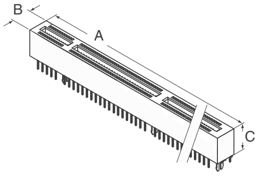

Fig. 4

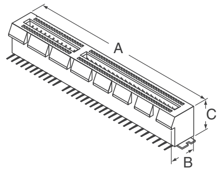

Fig.	No. of Pos.	Peg Opt. §	Tail Length (mm)	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
PCI Express											
1	36	0	2.30	25.00	8.80	11.25	609-1960-ND	1.11	.61	.52	10018783-10000TLF
	64	0	2.30	39.00	8.80	11.25	609-1961-ND	2.08	1.13	.99	10018783-10001TLF
	98	0	2.30	56.00	8.80	11.25	609-1962-ND	2.73	1.49	1.33	10018783-10002TLF

§ Peg Options: 0 - Plastic Pegs, 1 - Metal Board Locks, 2 - Single Plastic Pegs, 3 - Metal and Plastic Compound

(Continued)

PCI Express™ Card Edge Connectors *(Cont.)*

Fig.	No. of Pos.	Peg Opt. §	Tail Length (mm)	Dimensions (mm)			Digi-Key Part No.	Price Each			FCI Part No.
				A	B	C		1	25	100	
1	164	0	2.30	89.00	8.80	11.25	609-1963-ND	2.87	1.76	1.53	10018783-10003TLF
	36	0	3.10	25.00	8.80	11.25	609-1964-ND	1.11	.61	.52	10018783-10010TLF
	64	0	3.10	39.00	8.80	11.25	609-1965-ND	1.71	.93	.81	10018783-10011TLF
	98	0	3.10	56.00	8.80	11.25	609-1966-ND	2.12	1.25	1.08	10018783-10012TLF
	164	0	3.10	89.00	8.80	11.25	609-1967-ND	2.87	1.76	1.53	10018783-10013TLF
	36	0	2.30	25.00	8.80	11.25	609-1968-ND	.75	.39	.33	10018783-10100TLF
	64	0	2.30	39.00	8.80	11.25	609-1969-ND	1.34	.74	.62	10018783-10101TLF
	98	0	2.30	56.00	8.80	11.25	609-1970-ND	1.52	.83	.74	10018783-10102TLF
	164	0	2.30	89.00	8.80	11.25	609-1971-ND	1.87	1.11	.96	10018783-10103TLF
	36	0	3.10	25.00	8.80	11.25	609-1972-ND	.95	.49	.42	10018783-10110TLF
	64	0	3.10	39.00	8.80	11.25	609-1973-ND	1.34	.74	.62	10018783-10111TLF
	98	0	3.10	56.00	8.80	11.25	609-1974-ND	1.60	.87	.76	10018783-10112TLF
	164	0	3.10	89.00	8.80	11.25	609-1975-ND	2.06	1.19	1.05	10018783-10113TLF
	98	0	2.54	56.00	8.80	11.25	609-1976-ND	1.65	.91	.78	10018783-10122TLF
	36	0	2.30	25.00	8.80	11.25	609-1977-ND	.51	.26	.22	10018783-10200TLF
	64	0	2.30	39.00	8.80	11.25	609-1978-ND	.87	.46	.39	10018783-10201TLF
	98	0	2.30	56.00	8.80	11.25	609-1979-ND	1.04	.58	.48	10018783-10202TLF
	164	0	2.30	89.00	8.80	11.25	609-1980-ND	1.16	.63	.55	10018783-10203TLF
	36	0	3.10	25.00	8.80	11.25	609-1981-ND	.89	.43	.36	10018783-10210TLF
	64	0	3.10	39.00	8.80	11.25	609-1982-ND	.93	.47	.40	10018783-10211TLF
	98	0	3.10	56.00	8.80	11.25	609-1983-ND	1.38	.73	.63	10018783-10212TLF
	164	0	3.10	89.00	8.80	11.25	609-1984-ND	1.96	1.10	.95	10018783-10213TLF
	36	1	2.30	25.00	8.80	11.25	609-1985-ND	1.16	.64	.54	10018783-11000TLF
	98	1	2.30	56.00	8.80	11.25	609-1986-ND	2.28	1.27	1.11	10018783-11002TLF
	36	1	3.10	25.00	8.80	11.25	609-1987-ND	1.27	.65	.55	10018783-11010TLF
	64	1	3.10	39.00	8.80	11.25	609-1988-ND	1.84	1.00	.86	10018783-11011TLF
	98	1	3.10	56.00	8.80	11.25	609-1989-ND	2.16	1.27	1.10	10018783-11012TLF
	164	1	3.10	89.00	8.80	11.25	609-1990-ND	3.10	1.83	1.63	10018783-11013TLF
	36	1	2.30	25.00	8.80	11.25	609-1991-ND	.78	.39	.31	10018783-11100TLF
	64	1	2.30	39.00	8.80	11.25	609-1992-ND	1.38	.77	.64	10018783-11101TLF
	98	1	2.30	56.00	8.80	11.25	609-1993-ND	1.64	.92	.79	10018783-11102TLF
	164	1	2.30	89.00	8.80	11.25	609-1994-ND	2.06	1.19	1.05	10018783-11103TLF
	36	1	3.10	25.00	8.80	11.25	609-1995-ND	.99	.51	.43	10018783-11110TLF
	64	1	3.10	39.00	8.80	11.25	609-1996-ND	1.34	.74	.62	10018783-11111TLF
	164	1	3.10	89.00	8.80	11.25	609-1997-ND	2.10	1.21	1.07	10018783-11113TLF
	36	1	2.30	25.00	8.80	11.25	609-1998-ND	.72	.36	.29	10018783-11200TLF
	64	1	2.30	39.00	8.80	11.25	609-1999-ND	1.01	.51	.41	10018783-11201TLF
	98	1	2.30	56.00	8.80	11.25	609-2000-ND	1.20	.62	.52	10018783-11202TLF
	36	1	3.10	25.00	8.80	11.25	609-2001-ND	.72	.36	.29	10018783-11210TLF
	64	1	3.10	39.00	8.80	11.25	609-2002-ND	1.02	.52	.42	10018783-11211TLF
	98	1	3.10	56.00	8.80	11.25	609-2003-ND	1.22	.63	.53	10018783-11212TLF
	164	1	3.10	89.00	8.80	11.25	609-2004-ND	1.43	.79	.67	10018783-11213TLF
	36	2	2.30	25.00	8.80	11.25	609-2005-ND	1.22	.63	.53	10018783-12000TLF
	164	2	2.30	89.00	8.80	11.25	609-2006-ND	3.01	1.81	1.58	10018783-12003TLF
	98	2	3.10	56.00	8.80	11.25	609-2007-ND	2.24	1.25	1.09	10018783-12012TLF
	64	2	2.30	39.00	8.80	11.25	609-2008-ND	.99	.49	.41	10018783-12201TLF
	36	0	2.30	25.00	8.80	11.25	609-2009-ND	1.06	.59	.50	10018784-10000TLF
	64	0	2.30	39.00	8.80	11.25	609-2010-ND	1.60	.87	.76	10018784-10001TLF
	98	0	2.30	56.00	8.80	11.25	609-2011-ND	1.94	1.14	.99	10018784-10002TLF
	164	0	2.30	89.00	8.80	11.25	609-2012-ND	2.75	1.69	1.47	10018784-10003TLF
	36	0	3.10	25.00	8.80	11.25	609-2013-ND	1.42	.79	.66	10018784-10010TLF
	64	0	3.10	39.00	8.80	11.25	609-2014-ND	1.60	.87	.76	10018784-10011TLF
	98	0	3.10	56.00	8.80	11.25	609-2015-ND	2.00	1.18	1.02	10018784-10012TLF
	164	0	3.10	89.00	8.80	11.25	609-2016-ND	2.65	1.59	1.39	10018784-10013TLF
	36	0	2.30	25.00	8.80	11.25	609-2017-ND	.68	.34	.29	10018784-10100TLF
	64	0	2.30	39.00	8.80	11.25	609-2018-ND	1.40	.77	.65	10018784-10101TLF
	98	0	2.30	56.00	8.80	11.25	609-2019-ND	1.83	1.02	.87	10018784-10102TLF
	164	0	2.30	89.00	8.80	11.25	609-2020-ND	2.64	1.52	1.35	10018784-10103TLF
	64	0	3.10	39.00	8.80	11.25	609-2022-ND	1.40	.77	.65	10018784-10111TLF
	98	0	3.10	56.00	8.80	11.25	609-2023-ND	1.56	.86	.74	10018784-10112TLF
	164	0	3.10	89.00	8.80	11.25	609-2024-ND	2.64	1.56	1.35	10018784-10113TLF
	36	0	2.30	25.00	8.80	11.25	609-2025-ND	.47	.24	.19	10018784-10200TLF
	64	0	2.30	39.00	8.80	11.25	609-2026-ND	.89	.43	.36	10018784-10201TLF
	98	0	2.30	56.00	8.80	11.25	609-2027-ND	1.14	.59	.50	10018784-10202TLF
	164	0	2.30	89.00	8.80	11.25	609-2028-ND	.89	.50	.43	10018784-10203TLF
	36	0	3.10	25.00	8.80	11.25	609-2029-ND	.57	.28	.23	10018784-10210TLF
	64	0	3.10	39.00	8.80	11.25	609-2030-ND	.85	.43	.35	10018784-10211TLF
	98	0	3.10	56.00	8.80	11.25	609-2031-ND	1.28	.65	.55	10018784-10212TLF
	164	0	3.10	89.00	8.80	11.25	609-2032-ND	1.10	.60	.51	10018784-10213TLF
	36	1	2.30	25.00	8.80	11.25	609-2033-ND	1.22	.62	.52	10018784-11000TLF
	64	1	2.30	39.00	8.80	11.25	609-2034-ND	1.70	.92	.79	10018784-11001TLF
	98	1	2.30	56.00	8.80	11.25	609-2035-ND	2.18	1.18	1.04	10018784-11002TLF
	164	1	2.30	89.00	8.80	11.25	609-2036-ND	3.15	1.71	1.53	10018784-11003TLF
	36	1	3.10	25.00	8.80	11.25	609-2037-ND	1.25	.63	.53	10018784-11010TLF
	64	1	3.10	39.00	8.80	11.25	609-2038-ND	1.70	.92	.79	10018784-11011TLF
	98	1	3.10	56.00	8.80	11.25	609-2039-ND	1.92	1.14	.98	10018784-11012TLF
	36	1	2.30	25.00	8.80	11.25	609-2040-ND	1.00	.49	.41	10018784-11100TLF
	64	1	2.30	39.00	8.80	11.25	609-2041-ND	1.35	.72	.61	10018784-11101TLF
	98	1	2.30	56.00	8.80	11.25	609-2042-ND	1.61	.91	.75	10018784-11102TLF
	164	1	2.30	89.00	8.80	11.25	609-2043-ND	2.16	1.21	1.06	10018784-11103TLF
	36	1	3.10	25.00	8.80	11.25	609-2044-ND	1.00	.49	.41	10018784-11110TLF
	64	1	3.10	39.00	8.80	11.25	609-2045-ND	1.32	.71	.60	10018784-11111TLF
	98	1	3.10	56.00	8.80	11.25	609-2046-ND	1.61	.91	.75	10018784-11112TLF
	164	1	3.10	89.00	8.80	11.25	609-2047-ND	2.22	1.21	1.06	10018784-11113TLF
	36	1	2.30	25.00	8.80	11.25	609-2048-ND	.67	.33	.26	10018784-11200TLF
	64	1	2.30	39.00	8.80	11.25	609-2049-ND	.93	.46	.39	10018784-11201TLF
	98	1	2.30	56.00	8.80	11.25	609-2050-ND	1.08	.54	.45	10018784-11202TLF
	164	1	2.30	89.00	8.80	11.25	609-2051-ND	1.18	.65	.55	10018784-11203TLF
	36	1	3.10	25.00	8.80	11.25	609-2052-ND	.67	.33	.26	10018784-11210TLF
	64	1	3.10	39.00	8.80	11.25	609-2053-ND	.95	.46	.39	10018784-11211TLF
	98	1	3.10	56.00	8.80	11.25	609-2054-ND	1.10	.54	.45	10018784-11212TLF
	164	1	3.10	89.00	8.80	11.25	609-2055-ND	1.27	.65	.55	10018784-11213TLF
	164	3	3.10	92.00	8.80	10.20	609-2062-ND	2.95	1.60	1.40	10046742-11113TLF
	164	3	3.10	92.00	8.80	10.20	609-2063-ND	1.58	.90	.74	10046742-11213TLF
	164	3	2.30	92.00	8.80	10.20	609-2064-ND	1.62	.90	.76	10046742-11223TLF
	164	3	3.10	92.00	8.80	10.20	609-2065-ND	1.65	.91	.77	10046742-31213TLF
	164	3	2.30	92.00	8.80	10.20	609-2066-ND	1.65	.91	.77	10046742-31223TLF
	280	0	2.54	149.00	8.80	11.25	609-2067-ND	6.84	4.56	4.08	10057596-10020TLF
	280	0	3.10	149.00	8.80	11.25	609-2068-ND	5.17	3.22	2.91	10057596-10110TLF
PCI Express Retention Mechanism											
2	Green	—	—	23.00	12.50	16.00	609-2059-ND	.42	.20	.16	10042618-001LF
	Blue	—	—	23.00	12.50	16.00	609-2060-ND	.35	.17	.15	10042618-002LF
	Black	—	—	23.00	12.50	16.00	609-2061-ND	.40	.19	.16	10042618-003LF
PCI Express Super Slot											
3	280	1	2.30	150.00	7.50	11.25	609-2056-ND	5.67	3.77	3.38	10037901-11100TLF
	280	1	3.10	150.00	7.50	11.25	609-2057-ND	5.45	3.77	3.34	10037901-11110TLF
3	280	1	3.10	150.00	7.50	11.25	609-2058-ND	4.57	2.86	2.62	10037901-11210TLF
PCI Express with Positioning Pins — Surface Mount											
4	36	—	—	25.00	8.80	11.10	609-2882-ND	2.97	1.82	1.58	10061913-100CLF
	64	—	—	39.00	8.80	11.10	609-2883-ND	3.63	2.24	1.98	10061913-101CLF
	98	—	—	56.00	8.80	11.10	609-2884-ND	4.31	2.77	2.47	10061913-102CLF
	164	—	—	89.00	8.80	11.10	609-2996-ND	5.40	3.60	3.23	10061913-103TLF

§ Peg Options: 0 - Plastic Pegs, 1 - Metal Board Locks, 2 - Single Plastic Pegs, 3 - Metal and Plastic Compound

SAS (Serial-Attached SCSI)

SAS was developed to address I/O and direct attach storage requirements that traditional SCSI cannot meet. It provides universal interconnect with SATA, while offering logical SCSI compatibility along with SCSI reliability, performance and manageability. **Features:** • High density serial data transmission at 1.5 ~ 3.0Gb/sec. • Dual port signal and power combined disk drive device I/O • Two different pairs per port • Three different voltage levels power (15 pins) • Combined signal/power receptacle for direct device plug-up • Guide pegs for blind mate • FMLB for hot plugging capability • SAS receptacles also accept SATA drives **Applications:** • Next generation disk drive connection • Servers RAID storage systems • Embedded computing devices

Fig. 1

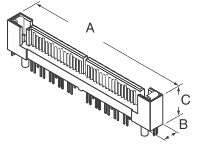

Fig. 2

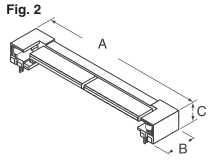

Fig. 3

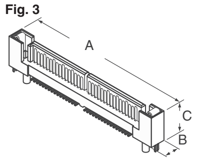

Fig. 4

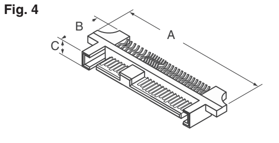

Fig. 5

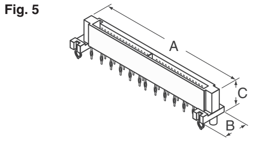

Fig. 6

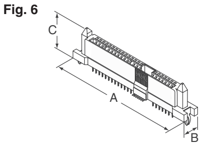

Fig. 7

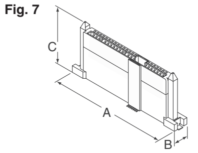

Fig. 8

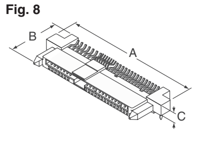

Fig.	No. of Pos.	Dimensions (mm)			Digi-Key Part No.	Price Each			FCI Part No.
		A	B	C		1	25	100	
Plugs – Vertical PC Mount									
1	32	57.14	5.10	9.95	609-1611-ND	4.29	2.58	2.25	10053670-001LF
	32	57.14	5.10	9.95	609-1612-ND	4.29	2.58	2.25	10053670-002LF
	32	57.14	5.10	9.95	609-1603-ND	3.82	2.37	2.15	10044625-001LF
	32	57.14	5.10	9.95	609-1604-ND	3.60	2.22	1.96	10044625-002LF
	32	57.14	5.10	9.95	609-1605-ND	3.84	2.28	2.04	10044625-003LF
	32	57.14	5.10	9.95	609-1606-ND	3.79	2.33	2.02	10044625-004LF
	32	57.14	5.10	9.95	609-1607-ND	5.48	3.53	3.14	10044625-102LF
	32	57.14	5.10	9.95	609-1608-ND	5.48	3.53	3.14	10044625-104LF
	32	57.14	5.10	9.95	609-1597-ND	3.66	2.26	1.99	10028542-001LF
	32	57.14	5.10	9.95	609-1598-ND	3.94	2.43	2.15	10028542-002LF
Plugs – Right Angle PC Mount									
2	32	57.14	12.30	6.50	609-1600-ND	4.28	2.64	2.33	10035104-001LF
	32	57.14	12.30	6.50	609-1601-ND	4.35	2.69	2.37	10035104-002LF
	32	57.14	12.30	6.50	609-1602-ND	4.28	2.64	2.33	10035104-003LF
Plugs – Vertical Surface Mount									
3	29	55.34	4.00	12.00	609-1528-ND	2.75	1.64	1.47	10023060-001LF
	29	55.77	5.50	9.93	609-1547-ND	3.94	2.47	2.26	10045105-001LF
	29	45.35	5.50	8.40	609-1546-ND	2.80	1.72	1.54	10041724-001LF
	29	45.75	5.50	8.40	609-1532-ND	2.44	1.45	1.29	10031193-001LF
	32	57.14	5.10	9.95	609-1609-1-ND†	5.40	3.36	3.04	10045646-001TRLF
	32	57.14	5.10	9.95	609-1609-2-ND‡	2607.64/1,000			10045646-001TRLF
	32	57.14	5.10	9.95	609-1610-1-ND†	5.40	3.36	3.04	10045646-002TRLF
	32	57.14	5.10	9.95	609-1610-2-ND‡	2607.64/1,000			10045646-002TRLF
Plug – Right Angle Surface Mount									
4	29	52.00	12.85	4.40	609-1534-ND	2.67	1.61	1.40	10034524-001LF
Receptacles – Vertical PC Mount									
5	29	42.73	7.00	9.85	609-1548-ND	5.64	3.76	3.37	10045782-001LF
	22	43.50	4.65	9.85	609-1549-ND	8.86	6.28	5.54	10054542-001LF
	29	45.75	5.50	9.85	609-1529-ND	2.86	1.75	1.52	10031077-001LF
	29	45.75	5.50	9.85	609-1530-ND	5.57	3.62	3.31	10031077-003LF
	29	45.75	5.50	9.85	609-1531-ND	5.57	3.62	3.31	10031077-011LF
	29	45.75	5.50	9.85	609-1526-ND	1.80	1.03	.90	10018182-001LF
	29	45.75	5.50	9.85	609-1527-ND	4.81	3.01	2.76	10018182-011LF
Receptacles – Vertical Hybrid (SMT and PCB)									
6	29	42.73	8.50	9.85	609-1541-ND	7.96	5.42	4.88	10036876-003LF
	29	42.73	8.50	9.85	609-1540-ND	5.20	3.31	3.03	10036876-003CLF
	29	42.73	8.50	9.85	609-1539-1-ND†	5.51	3.51	3.21	10036876-003C-TRLF
	29	42.73	8.50	9.85	609-1539-2-ND‡	813.83/280			10036876-003C-TRLF
	29	42.73	8.50	9.85	609-1543-ND	5.07	3.17	2.90	10036876-013LF
	29	42.73	8.50	9.85	609-1542-ND	5.07	3.17	2.90	10036876-013CLF
	29	45.75	5.50	9.85	609-1536-ND	4.82	3.01	2.76	10036312-001LF
Receptacles – Vertical Surface Mount									
7	29	45.75	5.50	19.55	609-1544-ND	7.65	5.20	4.69	10038334-001LF
	29	45.75	5.50	9.85	609-1533-ND	5.57	3.62	3.31	10031567-001LF
	29	45.75	5.50	9.95	609-1537-ND	2.29	1.36	1.20	10036355-001LF
Receptacles – Right Angle Surface Mount									
8	29	47.00	14.20	3.68	609-1538-ND	5.67	3.52	3.19	10036587-001LF
	29	49.00	14.70	4.76	609-1535-ND	5.57	3.62	3.31	10035202-001LF

† Cut Tape ‡ Tape and Reel

One-Piece Interface Connectors FSI Series

Specifications:

• **Insulator Material:** Liquid Crystal Polymer • **Contact Material:** BeCu • **Current Rating:** 1A @ 80°C ambient • **Operating Temperature Range:** -55°C ~ 125°C • **Plating:** Gold over 50µ” (1.27µm) Nickel

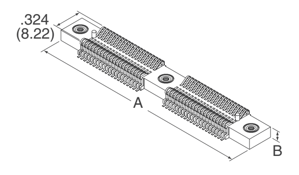

No. of Pos.	Segments	Dimensions Inches (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Samtec Part No.
20	1	1.66 (42.09)	0.12 (3.0)	SAM8052-ND	7.58	5.46	4.55	FSI-110-03-G-D-E-AD
			0.24 (6.0)	SAM8053-ND	7.95	5.73	4.77	FSI-110-06-L-D-E-AD
			0.39 (10.0)	SAM8054-ND	7.82	5.87	4.89	FSI-110-10-L-D-E-AD
40	2	2.45 (62.09)	0.12 (3.0)	SAM8055-ND	8.54	6.41	5.34	FSI-120-03-G-D-E-AD
			0.24 (6.0)	SAM8056-ND	9.00	6.75	5.63	FSI-120-06-L-D-E-AD
			0.39 (10.0)	SAM8057-ND	9.26	6.95	5.79	FSI-120-10-L-D-E-AD
60	3	3.23 (82.09)	0.12 (3.0)	SAM8058-ND	9.31	6.99	5.82	FSI-130-03-G-D-E-AD
			0.24 (6.0)	SAM8059-ND	9.84	7.18	6.15	FSI-130-06-L-D-E-AD
			0.39 (10.0)	SAM8060-ND	9.71	7.39	6.33	FSI-130-10-L-D-E-AD
80	4	4.02 (102.09)	0.12 (3.0)	SAM8061-ND	10.65	8.11	6.95	FSI-140-03-G-D-E-AD
			0.24 (6.0)	SAM8062-ND	11.25	8.56	7.34	FSI-140-06-L-D-E-AD
			0.39 (10.0)	SAM8063-ND	11.36	8.74	7.33	FSI-140-10-L-D-E-AD
100	5	4.81 (122.09)	0.12 (3.0)	SAM8064-ND	11.81	9.09	7.62	FSI-150-03-G-D-E-AD
			0.24 (6.0)	SAM8065-ND	12.51	9.62	8.07	FSI-150-06-L-D-E-AD
			0.39 (10.0)	SAM8066-ND	12.92	9.93	8.33	FSI-150-10-L-D-E-AD

Advanced TCA Connectors

TECHNOLOGY IN CONNECTORS™

Fig. 1

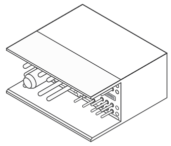

Fig. 2

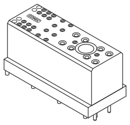

This newly developed architecture and system layout allows manufacturers of telecom equipment a new standard for designing systems (PICMG 3.0). ATCA stands for: Advanced Telecommunications Computing Architecture. The basic structure is utilizing a modular concept. Application of this new structured approach allows various module designs that are compatible in layout and mechanical installation. CONEC manufactured the power connectors for the ATCA System which are used in Zone 1.

Material and Finishes:

• **Insulator:** Glass filled Plastic, UL 94V-0 • **Contacts:** High precision machined Copper Alloy • **Plating:** 30 micro inch, Gold over Nickel

Electrical Characteristics:

• **Size 16 Power Contacts:** 30A continuous all contacts under load per UL 1977; **Size 22 Signal Contacts:** 2A nominal rating • **Insulation Resistance:** 5GΩ • **Mechanical Operations:** 250 Cycles • **Temperature Range:** -55°C ~ 125°C

Fig.	No. of Positions	Termination	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
			Right Angle — Male Connector				
1	30	Press Fit	626-1266-ND	21.32	17.38	14.93	ATC30W08MAE1S5X
		Solder Pin	626-1267-ND	17.69	13.91	11.66	ATC30W08MARCS5X
			Straight — Female Connector				
2	30	Press Fit	626-1268-ND	19.53	15.35	13.26	ATC30W08FGE1S5X
		Solder Pin	626-1269-ND	20.83	16.37	14.14	ATC30W08FGRCS5X

Din Connectors

Specifications:

• **Molding Material:** PBTP (Polyester) • **Flammability:** UL 94V-0 • **Material Contacts:** Copper Alloy • **Working Current:** 2A • **Operating Temperature:** -55°C ~ 125°C • **Quality Class:** 50 Mating Cycles

Fig.	No. of Rows	No. of Positions	Style	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
				Right Angle				
1	3	96	Male	626-1275-ND	3.97	2.74	2.24	121A10149X
2	3	96	Female	626-1281-ND	7.05	5.22	4.32	122A10859X
				Straight				
3	3	64	Male	626-1278-ND	4.42	3.09	2.53	121A10559X
4	3	64	Female	626-1276-ND	5.17	3.67	3.01	122A10299X
4	3	96	Female	626-1277-ND	5.54	4.05	3.31	122A10309X

Fig. 1

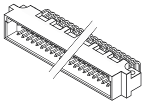

Fig. 2

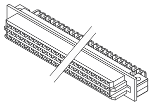

Fig. 3

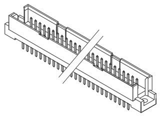

Fig. 4

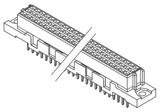

NEW! Micro TCA Connectors

Specifications: • **Insulator Material:** PBT (UL 94-VO) • **Power contacts:** Material: Copper alloy, screw machined contacts; Finish: Mating area Gold over Nickel, Termination area Tin over Nickel • **Signal contacts:** Material: Copper alloy, screw machined contacts; Finish: Mating area and Termination area both Gold over Nickel • **Shell:** Material: Steel; Finish: Tin Plated

Electrical Characteristics: • **Current rating:** Power contacts: 24A at maximum 30°C temperature rise; Signal contacts: 7.5A maximum • **Voltage Proof:** 1,000Vrms • **Mechanical operations:** 250 cycles

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
	Right Angle PCB Connectors					
1	Male, thru-hole, Dual Port with 4-40 hex bolts	626-1298-ND	20.36	16.60	14.26	13-000011
	Male, thru-hole, Dual Port without hex bolts	626-1299-ND	19.76	15.53	13.41	13-000021
	Male, SMT, Dual Port with 4-40 hex bolts	626-1300-ND	21.28	17.35	14.90	13-000031
2	Male, thru-hole, Single Port with 4-40 hex bolts, 24A	626-1301-ND	13.44	10.57	8.86	13-000051
	Male, thru-hole, Single Port without hex bolts, 24A	626-1302-ND	12.89	9.92	8.31	13-000061
	Male, SMT, Single Port with 4-40 hex bolts, 35A	626-1303-ND	13.93	10.96	9.18	13-000071
3	Male, thru-hole, Single Port with 4-40 hex bolts, 40A	626-1304-ND	10.88	8.28	7.10	13-000091
	Male, thru-hole, Single Port without hex bolts, 40A	626-1305-ND	10.07	7.67	6.57	13-000101
	Vertical PCB Connectors					
4	Male, thru-hole, Single Port with 4-40 hex bolts, 40A	626-1306-ND	10.10	7.69	6.59	13-000111
	Male, thru-hole, Single Port without hex bolts, 40A	626-1307-ND	9.36	7.02	5.85	13-000121
	Cable Mount Connectors					
4	Female Cable Mount Solder 12 ~ 10AWG, 30A	626-1308-ND	8.57	6.43	5.36	13-000131
	Female Cable Mount Solder 14 ~ 12AWG, 20A	626-1309-ND	8.64	6.48	5.40	13-000141
	Female Cable Mount Solder 12 ~ 10AWG Bridged Signal, 30A	626-1310-ND	9.68	7.37	6.32	13-000161
	Female Cable Mount Solder 14 ~ 12AWG Bridged Signal, 20A	626-1311-ND	10.17	7.74	6.63	13-000171
	Female Cable Mount Crimp	626-1312-ND†	2.31	1.57	1.21	13-000190
	Female Cable Mount Crimp Bridged Signal	626-1313-ND†	4.56	3.18	2.61	13-000201
	Backshells					
	Backshell Plastic 180 degree Short 4-40 Jack Screws w/ connector	626-1314-ND†	8.78	6.59	5.49	13-000210
	Backshell Plastic 180 degree Long 4-40 Jack Screws w/ connector	626-1319-ND†	10.72	8.16	6.99	13-000370
	Backshell Die Cast 90 degree 4-40 Jack Screws	626-1320-ND	10.60	8.07	6.92	16-000010
	Contacts					
	Female power contact crimp type short version, 10A	626-1315-ND	2.67	1.81	1.47	13-000291
	Female power contact crimp type short version, 20A	626-1316-ND	2.67	1.81	1.47	13-000301
	Female power contact crimp type short version, 30A	626-1317-ND	2.67	1.81	1.47	13-000311
	Female power contact crimp type short version, 40A	626-1318-ND	2.67	1.81	1.47	13-000321
	Signal crimp type socket contacts 24 ~ 20AWG	626-1321-ND	1.33	.85	.62	162C18709X
	Crimp tool for Micro TCA contacts	626-1287-ND	597.53	—	—	360X10409X

† Contacts sold seperately

Fig. 1

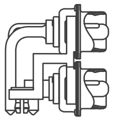

Fig. 2

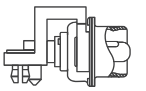

Fig. 3

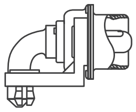

Fig. 4

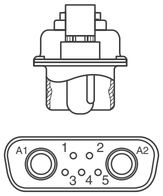

Tyco Electronics AMP
Authorized Distributor

HDMI™ Connectors and Cable Assemblies

HDMI High-Definition Multimedia Interface connector is the next generation interface for consumer electronic products such as digital television, set-top boxes and DVD players. HDMI supports standard, enhanced or high-definition video, plus multi-channel audio on a single cable. **Features:** • Full shielding for ESD protection and lead-free process capable • 19 positions and 5 Gigabits/second of bandwidth to support video and multi-channel audio in a single cable • Durability: 10,000 cycles

Fig. 1

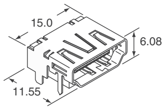

Fig. 2

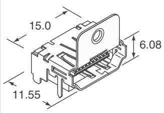

Fig. 3

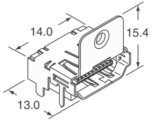

Fig. 4

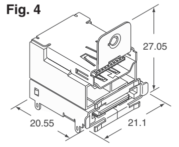

Fig. 5

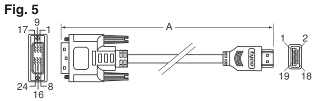

Fig. 6

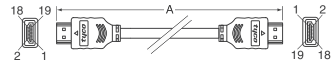

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel† Qty.	Pricing	AMP Part No.
HDMI Receptacles								
1	SMT R/A without Flange	A35071CT-ND‡	4.47	3.73	2.98	300	742.02	1747981-1
2	SMT R/A with Standard Flange	A35072-ND	6.03	5.03	4.02	—	—	1-1747981-1
	SMT R/A with Standard Flange	A35073-ND	5.73	4.78	3.82	—	—	1-1747981-2
	SMT R/A with HI Flange	A35074CT-ND‡	3.87	3.23	—	170	364.04	2-1747981-3
3	Thru Hole R/A	A35075-ND	5.73	4.78	3.82	—	—	1746679-1
4	HDMI Over E-SATA	A35076-ND	7.53	6.28	5.02	—	—	1888540-1
Cable Assemblies								
5	HDMI to DVI 2 Meters	A35083-ND	24.86	19.34	15.47	—	—	1770020-1
	HDMI to DVI 3 Meters	A35084-ND	29.27	22.77	18.22	—	—	1770020-2
	HDMI to DVI .5 Meters	A35086-ND	18.77	14.60	11.68	—	—	1770020-4
	HDMI to DVI .75 Meters	A35087-ND	18.25	14.20	11.36	—	—	1770020-5
	HDMI to DVI 1 Meter	A35088-ND	20.79	16.17	12.94	—	—	1770020-6
6	HDMI to HDMI 2 Meters	A35077-ND	28.04	21.81	17.45	—	—	1770019-1
	HDMI to HDMI 3 Meters	A35078-ND	23.92	18.61	14.89	—	—	1770019-2
	HDMI to HDMI .25 Meters	A35079-ND	17.55	13.65	10.92	—	—	1770019-3
	HDMI to HDMI .5 Meters	A35080-ND	19.15	14.90	11.92	—	—	1770019-4
	HDMI to HDMI .75 Meters	A35081-ND	18.20	14.16	11.33	—	—	1770019-5
	HDMI to HDMI 1 Meter	A35082-ND	20.66	16.07	12.86	—	—	1770019-6

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape

Mictor Connectors - SMD

Material: • Housing: Liquid crystal polymer, black • Contacts: Copper alloy • Ground Bus: Phosphor bronze • Finish: Gold Plating • Contacts and Ground Bus: Duplex plated 0.00076(.000030) minimum gold in mating area with entire contact and ground bus underplated .00178 (.000070) minimum nickel **Ratings:** • Voltage: 30VAC • Current: Signal 1.0 amp, fully derated grounded; 7.6 amps, fully derated • Temperature: -55°C ~ 125°C

Fig. 1

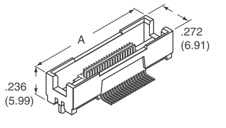

Fig. 2

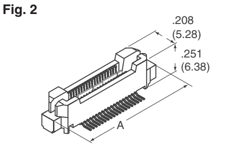

No. of Pos.	Dim. - Inches (mm) A	Distance Between First and Last Position	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
Fig. 1 - 1 Row of Pins, Series 767004 Receptacles							
38	1.00 (25.4)	.450”	A32308-ND	20.75	18.80	13.32	2-5767004-2
76	1.50 (38.1)	.950”	A32309-ND	41.47	37.56	26.61	2-5767004-3
152	2.5 (63.5)	1.95”	A32310-ND	70.52	63.87	45.24	2-5767004-5
Fig. 2 - 2 Rows of Pins, Series 767007 Plugs							
38	1.00 (25.4)	.450”	A32311-ND	18.05	16.35	11.58	5767007-8
76	1.50 (38.1)	.950”	A32312-ND	47.67	43.18	30.59	5767007-9
152	2.5 (63.5)	1.95”	A32313-ND	81.04	73.40	51.99	1-5767007-1

BOURNS INC

70AD Modular Contacts

The **Model 70AD Modular Contact** is a low profile modular design connector that makes a high integrity, yet quickly removable connection.

Applications: Rechargeable batteries and battery packs, battery chargers, cellular and portable phones, two-way radios, laptop computers, etc. **Materials and Finishes: Insulator:** Glass reinforced thermoplastic; UL 94V-0 rated, black **Contact:** Copper alloy **Finish Underplating:** Nickel **Finish Contact Area:** 30µ in. Au over Ni (male), Precious metal (female) **Finish Termination:** Tin alloy (meets MIL-STD202, method 208) **Electrical Operating Characteristics: Current Rating:** DC 3A/contact **Voltage Rating:** DC 30V (male) **Contact Resistance:** 25mΩ maximum **Dielectric Voltage:** AC 500V **Insulating Resistance:** 400MΩ minimum (male), 500MΩ minimum (female) **Operating Temperature:** -55°C ~ 125°C **Mechanical Characteristics: Normal Force:** 100 grams minimum (male) **Durability:** 5,000 cycles

Female Modular Contact

No. of Contacts	Dim. (mm) A	B
2	9.0	4.0
3	13.0	8.0
4	17.0	12.0
5	21.0	16.0
6	25.0	23.0

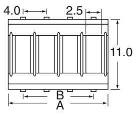

Top View

Fig. 1 - Female Surface Mount

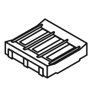

Fig. 2 - Female Through Hole

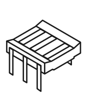

Male Modular Contact

No. of Contacts	Dim. (mm) A
2	7.7
3	11.7
4	15.7
5	19.7
6	23.7

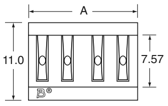

Top View

Fig. 3 - Male Surface Mount

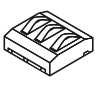

Fig. 4 - Male Through Hole

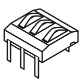

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	10	50	100	Bourns Part No.
Female SMT — RoHS Compliant							
1	2	70ADJ-2-F-ND	1.23	.98	.76	.72	70ADJ-2-FL0
	3	70ADJ-3-F-ND	1.45	1.16	.90	.85	70ADJ-3-FL0
	4	70ADJ-4-F-ND	1.83	1.46	1.13	1.06	70ADJ-4-FL0
	5	70ADJ-5-F-ND	2.18	1.74	1.34	1.27	70ADJ-5-FL0
	6	70ADJ-6-F-ND	2.55	2.04	1.57	1.48	70ADJ-6-FL0
Female SMT with Locator Pin							
1	2	70ADJ-2-F1-ND◆	1.23	.98	.76	.72	70ADJ-2-FL1
	3	70ADJ-3-F1-ND	1.45	1.16	.90	.85	70ADJ-3-FL1
	4	70ADJ-4-F1-ND◆	1.83	1.46	1.13	1.06	70ADJ-4-FL1
	5	70ADJ-5-F1-ND◆	2.18	1.74	1.34	1.27	70ADJ-5-FL1
	6	70ADJ-6-F1-ND◆	2.55	2.04	1.57	1.48	70ADJ-6-FL1
Female Through-Hole — RoHS Compliant							
2	2	70ADH-2-F-ND	1.23	.98	.76	.72	70ADH-2-FL0
	3	70ADH-3-F-ND	1.45	1.16	.90	.85	70ADH-3-FL0
	4	70ADH-4-F-ND	1.83	1.46	1.13	1.06	70ADH-4-FL0
	5	70ADH-5-F-ND	2.18	1.74	1.34	1.27	70ADH-5-FL0
	6	70ADH-6-F-ND	2.55	2.04	1.57	1.48	70ADH-6-FL0
Male SMT — RoHS Compliant							
3	2	70ADJ-2-M-ND	1.30	1.04	.80	.76	70ADJ-2-ML0
	3	70ADJ-3-M-ND	1.63	1.30	1.00	.95	70ADJ-3-ML0
	4	70ADJ-4-M-ND	2.03	1.62	1.25	1.18	70ADJ-4-ML0
	5	70ADJ-5-M-ND	2.45	1.96	1.51	1.43	70ADJ-5-ML0
	6	70ADJ-6-M-ND	2.85	2.28	1.76	1.66	70ADJ-6-ML0
Male SMT with Locator Pin — RoHS Compliant							
3	2	70ADJ-2-M1-ND	1.30	1.04	.80	.76	70ADJ-2-ML1
	3	70ADJ-3-M1-ND	1.63	1.30	1.00	.95	70ADJ-3-ML1
	4	70ADJ-4-M1-ND	2.03	1.62	1.25	1.18	70ADJ-4-ML1
	5	70ADJ-5-M1-ND	2.45	1.96	1.51	1.43	70ADJ-5-ML1
	6	70ADJ-6-M1-ND	2.85	2.28	1.76	1.66	70ADJ-6-ML1
Male Through-Hole — RoHS Compliant							
4	2	70ADH-2-M-ND	1.30	1.04	.80	.76	70ADH-2-ML0
	3	70ADH-3-M-ND	1.63	1.30	1.00	.95	70ADH-3-ML0
	4	70ADH-4-M-ND	2.03	1.62	1.25	1.18	70ADH-4-ML0
	5	70ADH-5-M-ND	2.45	1.96	1.51	1.43	70ADH-5-ML0
	6	70ADH-6-M-ND	2.85	2.28	1.76	1.66	70ADH-6-ML0

◆ *RoHS Compliant*

70AA Modular Contacts

Features: • 2.54mm pitch and height • End-to-end stackable • Pick and place compatible • High cycle life
Operating Characteristics: Electrical: • Current Rating: 3A/contact • Voltage Rating: 60V • Contact Resistance: 30mΩ maximum (25mΩ maximum for Male) • Operating Temperature: -55°C ~ 125°C **Mechanical:** • Durability: 10,000 cycles minimum
Please see data sheet for full dimensions

Female Modular Contact

No. of Contacts	Dim. (mm) A	B
2	4.98	2.54
3	7.52	5.08
4	10.06	7.62
5	12.60	10.16
6	15.14	12.70

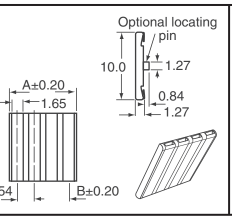

Male Modular Contact

No. of Contacts	Dim. (mm) A
2	5.00
3	7.54
4	10.20
5	12.62
6	15.16

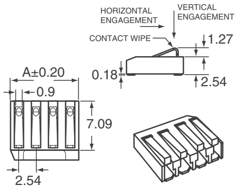

No. of Pos.	Digi-Key Part No.	Price Each 1	10	50	Bourns Part No.
Female Modular Contact					
2	70AAJ-2-F0-ND	.50	.40	.36	70AAJ-2-F0
3	70AAJ-3-F0-ND	.75	.60	.54	70AAJ-3-F0
4	70AAJ-4-F0-ND	.90	.72	.65	70AAJ-4-F0
5	70AAJ-5-F0-ND	1.00	.80	.72	70AAJ-5-F0
6	70AAJ-6-F0-ND	1.18	.94	.85	70AAJ-6-F0
Female Modular Contact with Locating Pin					
2	70AAJ-2-F1-ND	.50	.40	.36	70AAJ-2-F1
3	70AAJ-3-F1-ND	.75	.60	.54	70AAJ-3-F1
4	70AAJ-4-F1-ND	.90	.72	.65	70AAJ-4-F1
5	70AAJ-5-F1-ND	1.00	.80	.72	70AAJ-5-F1
6	70AAJ-6-F1-ND	1.18	.94	.85	70AAJ-6-F1
Male Modular Contact					
2	70AAJ-2-M0-ND	.88	.70	.63	70AAJ-2-M0
3	70AAJ-3-M0-ND	1.13	.90	.81	70AAJ-3-M0
4	70AAJ-4-M0-ND	1.38	1.10	.99	70AAJ-4-M0
5	70AAJ-5-M0-ND	1.75	1.40	1.26	70AAJ-5-M0
6	70AAJ-6-M0-ND	2.13	1.70	1.53	70AAJ-6-M0

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX Connectors — Fine Pitch SMT Board to Board

1.5mm Features: • 0.4mm fine pitch and low profile • Design provides for an audible click • Prevents solder wicking • Compatible with high temperature, lead free, soldering processes

Specifications: • Mated Height: 1.5mm • Pitch: 0.4mm • Current: 0.4A maximum • Voltage: 50V maximum

Application: • 1.5mm series is ideal for high density packaging applications such as PCs, PDAs, DVD, cell phones and digital cameras. **SOLO STACKER™ Features:** • One piece connector used to connect two PCBs with mobile phones, pagers, PDAs, security, hand held scanners, etc. in a cost-effective manner • Can allow a spacing tolerance of up to ±0.30mm

Fig. 1

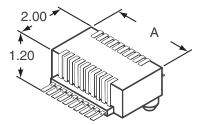

Fig. 2

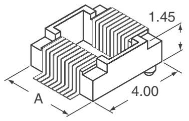

Fig. 3

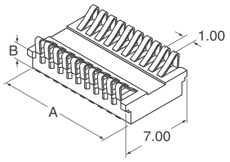

Fig.	No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
1.5mm Fine Pitch Connector											
Plug											
1	20	5.1	—	478-1988-1-ND	3.38	2.89	2.25	—	—	—	145602020000829
	30	7.1	—	478-1989-1-ND	4.28	3.66	2.85	478-1989-2-ND	2,000	1662.50/M	145602030000829
Receptacle											
2	20	6.1	—	478-1991-1-ND	2.52	2.16	1.68	478-1991-2-ND	2,000	980.00/M	245602020000829
	30	8.1	—	478-1992-1-ND	2.70	2.31	1.80	478-1992-2-ND	2,000	1050.00/M	245602030000829
	40	10.1	—	478-1993-1-ND	3.38	2.89	2.25	478-1993-2-ND	2,000	1312.50/M	245602040000829
SOLO STACKER											
With PCB Location Bosses											
3	16	9.0	1.9 ~ 2.1	478-1994-1-ND	2.88	2.47	1.92	478-1994-2-ND	1,250	1120.00/M	009158016020001
	20	11.0	1.9 ~ 2.1	478-1995-1-ND	4.01	3.43	2.67	478-1995-2-ND	1,250	1557.51/M	009158020020001
	24	13.0	1.9 ~ 2.1	478-1996-1-ND	2.39	2.05	1.59	478-1996-2-ND	1,250	927.51/M	009158024020001
	28	15.0	1.9 ~ 2.1	478-1997-1-ND	2.52	2.16	1.68	478-1997-2-ND	1,250	980.00/M	009158028020001
	16	9.0	2.1 ~ 2.7	478-1998-1-ND	2.48	2.12	1.65	478-1998-2-ND	1,250	962.51/M	009158016025001
	20	11.0	2.1 ~ 2.7	478-1999-1-ND	3.42	2.93	2.28	478-1999-2-ND	1,250	1330.00/M	009158020025001
	24	13.0	2.1 ~ 2.7	478-2000-1-ND	2.39	2.05	1.59	478-2000-2-ND	1,250	927.51/M	009158024025001
	28	15.0	2.1 ~ 2.7	478-2001-1-ND	2.97	2.55	1.98	478-2001-2-ND	1,250	1155.00/M	009158028025001
	16	9.0	2.8 ~ 3.3	478-2002-1-ND	2.16	1.85	1.44	478-2002-2-ND	1,100	840.00/M	009158016030001
	24	13.0	2.8 ~ 3.3	478-2004-1-ND	2.48	2.12	1.65	478-2004-2-ND	1,100	962.50/M	009158024030001
	28	15.0	2.8 ~ 3.3	478-2005-1-ND	2.61	2.24	1.74	478-2005-2-ND	1,100	1015.00/M	009158028030001

1.00mm Fine Pitch Connectors (FPC)

Features: ZIF Right Angle: • Voltage: 50V • Current Rating: 1.0A maximum • Operating Temperature: -20°C ~ 85°C • Materials: Contact: Phosphor Bronze (tin-lead plated), Insulator and Slider: PPS, brown color **ZIF Vertical:** • Voltage: 50V • Current Rating: 1.0A maximum • Operating Temperature: -30°C ~ 85°C • Materials: Contact: Phosphor Bronze (tin-lead plated), Insulator: Glass-filled nylon, PPS **LIF Right Angle and Vertical:** • Voltage: 50V • Current Rating: 0.5A maximum • Operating Temperature: -20°C ~ 70°C • Materials: Contact: Phosphor Bronze (tin-lead plated), Insulator: Glass-filled PPS

Dim. in mm

Fig. 1

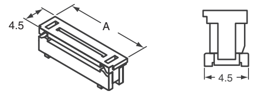

Fig. 2

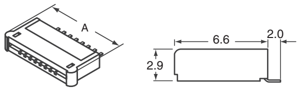

Fig. 3

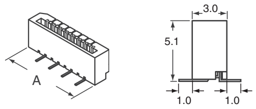

Fig. 4

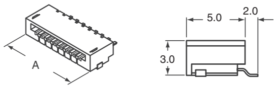

Fig.	No. of Pos.	Dim. (mm) A	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
ZIF										
Vertical, SMT without Boss										
1	6	12.4	478-1959-1-ND	2.03	1.74	1.35	478-1959-2-ND	1,000	787.50	006208506110000
	10	16.4	478-1961-1-ND	2.39	2.05	1.59	478-1961-2-ND	1,000	1085.00	006208510110000
	12	18.4	478-1962-1-ND	3.02	2.58	2.01	478-1962-2-ND	1,000	1172.50	006208512210000
	14	20.4	478-1963-1-ND	2.75	2.35	1.83	478-1963-2-ND	1,000	1067.50	006208514210000
	16	22.4	478-1964-1-ND	3.38	2.89	2.25	478-1964-2-ND	1,000	1312.50	006208516210000
Right Angle, SMT, Bottom Contact Type with Solder Tab, without Boss										
2	5	12.25	478-1965-1-ND	1.53	1.31	1.02	478-1965-2-ND	1,000	595.00	006200505130000
	8	15.25	478-1967-1-ND	2.12	1.81	1.41	478-1967-2-ND	1,000	822.50	006200508130000
	10	17.25	478-1968-1-ND	2.21	1.89	1.47	478-1968-2-ND	1,000	857.50	006200510130000
	12	19.25	478-1969-1-ND	1.89	1.62	1.26	478-1969-2-ND	1,000	735.00	006200512230000
	14	21.25	478-1970-1-ND	2.48	2.12	1.65	478-1970-2-ND	1,000	962.50	006200514230000

Fig.	No. of Pos.	Dim. (mm) A	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
LIF										
Vertical, SMT										
3	3	6.0	478-1980-1-ND	1.08	.93	.72	478-1980-2-ND	900	378.00	046232103015800
	4	7.0	478-1981-1-ND	1.13	.97	.75	478-1981-2-ND	900	393.75	046232104015800
	6	9.0	478-1982-1-ND	1.17	1.01	.78	478-1982-2-ND	900	409.50	046232106015800
	12	15.0	478-1985-1-ND	1.44	1.24	.96	478-1985-2-ND	900	504.00	046232112015800
	14	17.0	478-1986-1-ND	1.53	1.31	1.02	478-1986-2-ND	900	535.50	046232114015800
Right Angle, SMT, Top Contact Type										
4	8	11.6	478-1975-1-ND	1.49	1.28	.99	478-1975-2-ND	1,000	577.50	046232108103800
	10	13.6	478-1976-1-ND	1.58	1.35	1.05	478-1976-2-ND	1,000	612.50	046232110103800
	12	15.6	478-1977-1-ND	1.71	1.47	1.14	478-1977-2-ND	1,000	665.00	046232112103800
	14	17.6	478-1978-1-ND	1.76	1.51	1.17	—	—	—	046232114103800
	16	19.6	478-1979-1-ND	1.85	1.58	1.23	—	—	—	046232116103800

HRS HIROSE ELECTRIC CO.,LTD. SIM Card Sockets — ID1A Series

RoHS COMPLIANT

Features:
Suited for Plug-in SIM Cards of the GSM Standard (11.11). SIM card Subscriber Identity Modules are used for subscriber identification with portable telephone terminals having (or using) GSM standard (11.11) plug-in SIM cards. These sockets are miniature and thin with a height of 2.45mm, length of 30.6mm, and width of 17.4mm.

Applications:
Portable terminals and equipment that uses GSM Standard (11.11) plug-in SIM cards.

Ratings:
- Current: 1A • Temp. Range: -30°C ~ 80°C Voltage: 100VAC

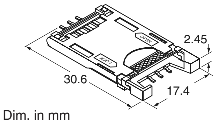

Dim. in mm

Digi-Key Part No.	Bulk Price Each 1	25	100	Hirose Part No.	Digi-Key Part No.	T & R Pricing 500	Hirose Part No.
H10743-ND	3.48	2.70	2.16	ID1A-6S-2.54SF(71)	H10743TR-ND	742.50	ID1A-6S-2.54SF(81)

SmartMedia Connectors —
MCR 102 Series

Features:
The MCR102 Series of miniature, thin connectors conforms to the SSFDC Forum of "SmartMedia" miniature storage media.

Applications:
Digital cameras, PDA, voice recorders, and other equipment that uses SmartMedia.

Ratings:
- Current: 0.5A • Temperature Range: -20°C ~ 60°C Voltage: 125VAC

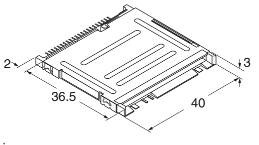

Dim. in mm

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
22	Smart Card 5V	H2340-ND	5.34	4.27	3.30	MCR102A-22RH-1.27SF

ExpressCard™ Connectors

ExpressCard/34 and ExpressCard/54 Module Components and Card Kit

ExpressCard module components and kits from FCI support module manufactures' implementation of ExpressCard technology. Module components are provided for both the ExpressCard/34 and ExpressCard/54 module form factors.

Features: • Connector electrical performance is validated at the initial PCI Express data rate of 2.5Gb/s and the anticipated second-generation speed of 5.0Gb/s • Simple beam-on-blade contact interface is rated for up to 10,000 cycles.

Materials: • Module Connector: Housing: High-temperature thermoplastic **Terminal:** Copper alloy, gold over nickel in contact area, tin over nickel in solder area • **Module Card Kits: Plastic Cap:** Thermoplastic **Metal Shield:** Stainless Steel

Electrical Performance: • Contact Resistance: Initial 40mΩ maximum; 55mΩ maximum after test • **Current Rating:** 0.75A per contact • Meets insertion loss, return loss and crosstalk requirements in ExpressCard standard release 1.0

Environmental: • Durability Rating (mating/unmating): 10,000 cycles • **Field Temperature:** -65°C • **Field Life:** 5 years • **Temperature Life (preconditioning):** -105°C for 72 hours • **Temperature Life:** -105°C for 120 hours • **Mixed Flowing Gas Duration:** 7 days

Mechanical Performance: • Durability: 10,000 mating cycles • **Insertion Force:** 39N maximum • **Withdrawal Force:** 3.7N minimum; 18.5N maximum

ExpressCard Host Connectors and Universal Slot Systems

ExpressCard host connectors and systems from FCI support host systems manufactures' implementation of ExpressCard technology.

Features: • Connector electrical performance is validated at the initial PCI Express data rate of 2.5Gb/s and the anticipated second-generation speed of 5.0Gb/s • Simple beam-on-blade contact interface is rated for up to 5,000 cycles.

Materials: • Host Connector: Housing: High-temperature thermoplastic **Terminal:** Copper alloy, gold over nickel in contact area, tin over nickel in solder area • **Host System: Cam Housing:** Thermoplastic **Metal Shield:** Stainless Steel

Electrical Performance: • Contact Resistance: Initial 40mΩ maximum; 55mΩ maximum after test • **Current Rating:** 0.75A per contact • Meets insertion loss, return loss and crosstalk requirements in ExpressCard standard release 1.0

Environmental: • Durability Rating (mating/unmating): 5,000 cycles • **Field Temperature:** -65°C • **Field Life:** 5 years • **Temperature Life (preconditioning):** -105°C for 72 hours • **Temperature Life:** -105°C for 120 hours • **Mixed Flowing Gas Duration:** 7 days

Mechanical Performance: • Durability: 5,000 mating cycles • **Insertion Force:** 39N maximum • **Withdrawal Force:** 3.7N minimum; 18.5N maximum

Fig. 1

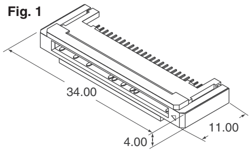

Fig. 2

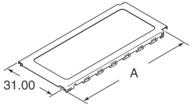

Fig. 3

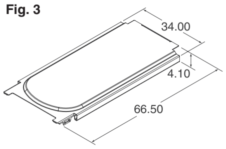

Fig. 4

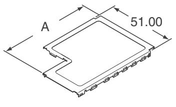

Fig. 5

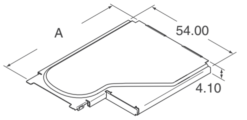

Fig. 6

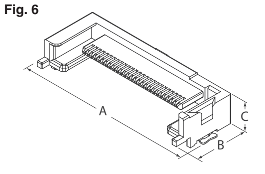

Fig. 7

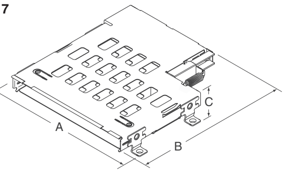

Fig.	Description	Dimensions - mm A	Dimensions - mm B	Dimensions - mm C	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Tape and Reel Qty.	Tape and Reel Pricing	FCI Part No.
ExpressCard/34 and ExpressCard/54 Systems											
1	Modular Connector	—	—	—	609-1081-1-ND†	2.86	1.76	1.57	480	663.91	10030570-2112LF
2	ExpressCard/34 Top Shield	70.70	—	—	609-1082-ND	1.32	.72	.61	—	—	10030573-100LF
		74.80	—	—	609-1083-ND	1.19	.65	.58	—	—	10030573-200LF
3	ExpressCard/34 Bottom Shield	—	—	—	609-1084-ND	1.58	.86	.75	—	—	10030574-0010LF
		—	—	—	609-1085-ND	1.89	1.09	.94	—	—	10030574-2100LF
4	ExpressCard/54 Top Shield	70.70	—	—	609-1086-ND	1.60	.87	.76	—	—	10030581-100LF
		74.80	—	—	609-1087-ND	1.60	.87	.76	—	—	10030581-200LF
5	ExpressCard/54 Bottom Shield	70.30	—	—	609-1088-ND	1.90	1.12	.97	—	—	10030582-0000LF
		71.50	—	—	609-1089-ND	2.20	1.27	1.13	—	—	10030582-2100LF
ExpressCard Host Systems											
6	Host Connector	40.20	15.15	7.70	609-1073-1-ND†	2.31	1.37	1.21	200	227.87	10056265-122ABTLF
		38.20	13.15	5.50	609-1075-1-ND†	2.07	1.24	1.09	200	207.27	10053826-100ABTLF
		38.20	13.15	5.50	609-1077-1-ND†	2.05	1.21	1.05	200	196.38	10055262-100BBTLF
		38.20	13.15	5.50	609-1080-1-ND†	2.17	1.25	1.11	200	207.60	10058937-100ABTLF
7	Host System (Card Push)	62.30	62.20	8.40	609-1074-ND	4.05	2.53	2.32	—	—	10038774-22ALF
		63.30	62.20	6.20	609-1076-ND	4.14	2.58	2.29	—	—	10053827-00ALF
		63.30	62.15	6.20	609-1078-ND	3.94	2.45	2.22	—	—	10055263-00BLF
		48.22	62.20	6.20	609-1079-ND	3.54	2.13	1.93	—	—	10058523-00ALF

† For Tape and Reel part number, change 1-ND to 2-ND.

SmartCard Connectors

Fig. 1

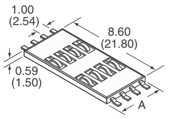

Fig. 2

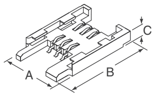

Fig. 3

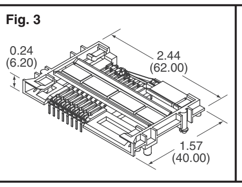

Fig. 4

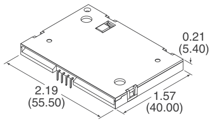

Fig. 5

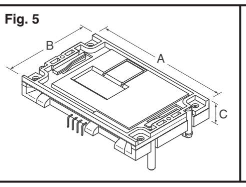

Fig. 6

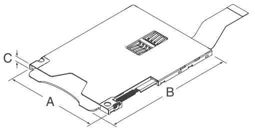

Fig.	Description	Dimensions - Inch (mm) A	Dimensions - Inch (mm) B	Dimensions - Inch (mm) C	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	FCI Part No.
SimCard Connectors											
1	8 Position, SMD, Tin	0.40 (10.16)	—	—	609-1398-1-ND†	2.97	1.82	1.59	2,000	1340.78/M	7111S0625X01LF
	6 Position, SMD, Tin	0.30 (7.62)	—	—	609-1399-1-ND†	1.54	.87	.72	2,000	563.16/M	7111S1015X01LF
2	6 Position with Switch, SMD	0.67 (17.00)	1.00 (25.50)	0.15 (3.70)	609-1400-1-ND†	1.73	.94	.82	650	463.93	7111S1615A01LF
	6 Position with Cover, SMD	0.68 (17.20)	1.16 (29.50)	0.10 (2.50)	609-1401-1-ND†	1.10	.58	.50	1,400	392.10/M	7111S2015X02LF
	6 Position with Cover, SMD	0.79 (20.00)	1.18 (30.00)	0.12 (3.00)	609-1402-1-ND†	2.06	1.22	1.05	800	726.72	7112S0815X19LF
	8 Position with Cover, SMD	0.79 (20.00)	1.18 (30.00)	0.12 (3.00)	609-1403-1-ND†	2.52	1.49	1.29	800	888.96	7112S0825X01LF
SmartCard Connectors											
3	8 Position with Cover, PCB	—	—	—	609-1404-ND	1.31	.75	.61	—	—	7334L2622F01LF
	8 Position with Cover, PCB	—	—	—	609-1405-ND	1.33	.74	.63	—	—	7334L2622F04LF
	8 Position with Cover, PCB	—	—	—	609-1406-ND	1.46	.79	.68	—	—	7334L2622F05LF
	8 Position with Cover, PCB	—	—	—	609-1407-ND	1.43	.79	.68	—	—	7334L2622F13LF
4	8 Position, PCB	—	—	—	609-1409-ND	4.29	2.67	2.42	—	—	7431E0225S01LF
	8 Position, PCB	—	—	—	609-1410-ND	4.49	2.79	2.53	—	—	7432E0225S01LF
5	8 Position, PCB	2.44 (62.00)	1.57 (40.00)	0.35 (9.00)	609-1411-ND	4.48	2.79	2.52	—	—	7434L0825S01LF
	8 Position, PCB	2.44 (62.00)	1.57 (40.00)	0.35 (9.00)	609-1412-ND	4.76	2.98	2.72	—	—	7434L1025V01LF
	8 Position, PCB	1.23 (31.16)	1.57 (40.00)	0.16 (4.00)	609-1413-ND	3.53	2.18	1.93	—	—	7832C0425X01LF
	8 Position, PCB	2.44 (62.00)	1.57 (40.00)	0.26 (6.50)	609-1414-ND	1.43	.79	.68	—	—	52400-25ALF
6	8 Position with FPC Shape, PCB	2.60 (66.00)	3.50 (88.80)	0.15 (3.70)	609-1415-ND	8.09	5.74	5.06	—	—	55640-20201LF
	8 Position with FFC, PCB	2.28 (58.00)	2.74 (69.50)	0.12 (3.00)	609-1416-ND	4.90	3.13	2.86	—	—	10010556-004LF

† Cut Tape ‡ For Tape and Reel part number, change 1-ND to 2-ND.

SCA-2 Connector System

Fig. 1

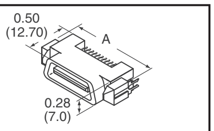

Fig. 2

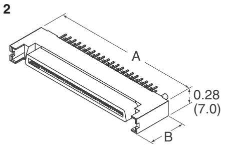

The SCA2 (Single Connect Attachment) connector system consists of plugs and receptacles designed to meet the industry's requirement for standard drive to backpanel interface in RAID (Redundant Array of Independent Disks) and Fibre Channel applications. The plug resides in the disk drive, while the receptacle is on the backpanel. The interface is governed by the Small Form Factor (SFF) standard.

Features: • High reliability blade-on-beam contact design • Alignment features provide blind mating • First-Mate-Last-Break (FMLB) contacts in accordance with SFF standards pattern **Operating Performance:** • Temperature Range: -55°C ~ 105°C **Electrical Performance:** • Insulation Resistance: 1000M • Dielectric Withstand: 500V • Current Rating: 1.0A/contact • Contact Resistance: 15mΩ • Mating cycles: 500 **Materials: Receptacle:** • Housing: High temperature nylon (UL 94 V-0) • Color: Black • Contact: Phosphor bronze • Contact Plating: Au over Ni; Sn over Ni tails **Plug:** • Housing: LCP (UL94V-0) • Color: Black • Contact: Phosphor bronze • Contact Plating: Au over Ni; Sn over Ni tails

Fig.	No. of Pos.	Dimensions - Inch (mm) A	Dimensions - Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	FCI Part No.
Plug – Straddle Mount (SMT)								
1	20	1.08 (27.38)	—	609-1566-ND	2.36	1.40	1.24	72547-001LF
	20	1.08 (27.38)	—	609-1567-ND	2.55	1.47	1.30	72547-002LF
	20	1.08 (27.38)	—	609-1568-ND	2.57	1.55	1.35	72547-003LF
	40	1.62 (41.10)	—	609-1557-ND	5.56	3.46	3.13	71292-002LF
	40	1.62 (41.10)	—	609-1559-ND	4.20	2.61	2.37	71292-202LF
	80	2.62 (66.50)	—	609-1556-ND	5.09	3.19	2.92	71292-001LF
	80	2.62 (66.50)	—	609-1558-ND	5.09	3.19	2.92	71292-201LF
	80	2.62 (66.50)	—	609-1560-ND	4.90	3.07	2.81	71292-203LF
Receptacle – PCB Mount								
2	20	1.18 (29.90)	0.45 (11.50)	609-1562-ND	3.31	2.05	1.80	72347-001LF
	80	2.72 (69.00)	0.45 (11.50)	609-1569-ND†	6.22	4.14	3.71	87566-001LF
	80	2.72 (69.00)	0.69 (17.50)	609-1564-ND†	7.21	4.63	4.09	72442-001LF
	80	2.72 (69.00)	0.69 (17.50)	609-1565-ND†	5.84	4.04	3.58	72442-201LF
	80	2.72 (69.00)	0.69 (17.50)	609-1563-ND	8.01	5.45	4.81	72436-003LF
	80	2.72 (69.00)	0.45 (11.50)	609-1561-ND	6.47	4.31	3.86	71780-005LF

† Press fit

AVX 9155 Size Reduced Battery Connector

Dim. in mm

The 9155 Series interconnect family of battery connectors saves 50% in volume over the initial compression connectors. These connectors are rated at a full 3 amps per contact on 2.5mm centers. **Features:** • 2.4mm insulator height • 3 amps/contact • Large SMT mounting area for positive mechanical attachment • 5K mating cycles • End-to-end stackable **Applications:** • Cellular phones • Handheld devices • Industrial modules • Medical electronics

Fig.	No. of Positions	Dim. L (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
1	3	7.5	478-4671-1-ND	2.03	1.74	1.35	478-4671-2-ND	1,000	788.00	009155003001016
	3	7.5	478-4672-1-ND	2.07	1.78	1.38	478-4672-2-ND	1,000	805.00	009155003002016
	3	7.5	478-4673-1-ND	1.71	1.47	1.14	478-4673-2-ND	1,000	665.00	009155003003016
	4	10.0	478-4674-1-ND	2.21	1.89	1.47	478-4674-2-ND	1,000	858.00	009155004001016
	4	10.0	478-4675-1-ND	2.30	1.97	1.53	478-4675-2-ND	1,000	893.00	009155004002016
	4	10.0	478-4676-1-ND	2.34	2.01	1.56	478-4676-2-ND	1,000	910.00	009155004003016
	5	12.5	478-4677-1-ND	2.39	2.05	1.59	478-4677-2-ND	1,000	928.00	009155005001016
	5	12.5	478-4678-1-ND	2.97	2.55	1.98	478-4678-2-ND	1,000	1155.00	009155005002016
	5	12.5	478-4679-1-ND	2.48	2.12	1.65	478-4679-2-ND	1,000	963.00	009155005003016
2	2	6.6	478-4680-1-ND	2.66	2.28	1.77	478-4680-2-ND	1,500	1033.00/M	009155002101006
	3	8.1	478-4681-1-ND	2.75	2.35	1.83	478-4681-2-ND	1,200	1068.00/M	009155003101006
3	2	5.0	478-4682-1-ND	1.53	1.31	1.02	478-4682-2-ND	2,000	595.00/M	009155002201006
	3	7.5	478-4683-1-ND	1.67	1.43	1.11	478-4683-2-ND	2,000	648.00/M	009155003201006
	4	10.0	478-4684-1-ND	1.71	1.47	1.14	478-4684-2-ND	2,000	665.00/M	009155004201006
	5	12.5	478-4685-1-ND	2.48	2.12	1.65	478-4685-2-ND	2,000	963.00/M	009155005201006
4	2	5.9	478-4686-1-ND	1.53	1.31	1.02	478-4686-2-ND	800	476.00	009155002301006
	3	8.9	478-4687-1-ND	1.67	1.43	1.11	478-4687-2-ND	800	518.40	009155003301006
	4	11.9	478-4688-1-ND	1.80	1.54	1.20	478-4688-2-ND	800	560.00	009155004301006
	5	14.9	478-4689-1-ND	2.39	2.05	1.59	478-4689-2-ND	800	742.40	009155005301006

Fig. 1

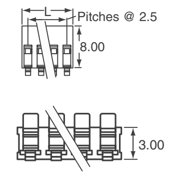

Fig. 2

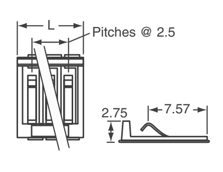

Fig. 3

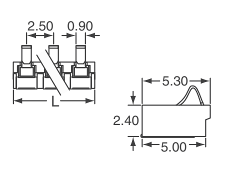

Fig. 4

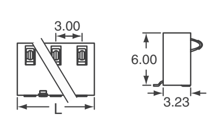

Memory Cards

PCMCIA PC

Dim. in mm

Features: • Single stacked header in SMT or Through Hole **Specifications:** • Number of Contacts: 68 • Pitch: 1.27mm (0.05") • Current Rating: 0.5A Maximum • Voltage Rating: 5V Maximum • Mating Cycles: 10,000

Fig.	Type	Keying	Button Side	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel† Qty.	Pricing	AVX Part No.
1	II	Reverse	Left	478-2009-ND	5.90	4.59	3.67	—	—	305025000321000
2	I, II, III	Normal	Right	478-4652-ND◆	6.53	5.07	4.05	—	—	315027068130871+
				478-4646-1-ND◆	9.89	7.68	6.14	250	1236.25	145027068130871+
3	I, II, III	Normal	Left	478-4648-ND◆	5.77	4.48	3.59	—	—	305027000101000+

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1

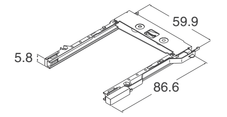

Fig. 2

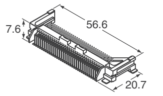

Fig. 3

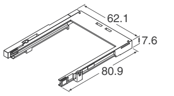

Secure Digital

5638 SERIES: Features: • SD (Secure Digital) Memory Card technology is emerging as the next industry standard for removable flash memory and input/output devices • Low profile • Normal and reverse keying • Card detection feature • Accepts both SD and Multimedia Cards • Mating cycles: 10,000 **Specifications:** • Current Rating: 0.5A • Voltage Rating: 5V • Insulation Resistance: 1000MΩ min. • Contact Resistance: 40MΩ maximum • DW Voltage: AC 500V • Operating Temperature: -25°C ~ 90°C **Applications:** • MP3 Players • PDAs • Cellular Phones • Digital Cameras • Digital Camcorders

5738 SERIES: Features: • Based on standard defined by I/O working of the SD Assoc., which is an SD memory card endorsement group • Low profile • Introduction of spring eject type for easy operation • Equipped with supporting metal fittings for firm mounting and enough strength as I/O by devising the insulator and the shell structure and enlarging fix metal fittings **Specifications:** • Pitch: 2.50mm • Contact Finish: Gold • Contact Finish Thickness: .50µm • Current: .50A • Voltage: 5.0V • Withstanding Voltage: 500Vrms • Flammability Rating: UL94V-0

9162 SERIES: Features: • Standard SIM (Subscriber Identity Module) connector is specifically designed for hand held devices • Stand-off designs allow other components to be mounted underneath the connector offering greater effective use of PCB real estate • Insulator is molded from high temperature plastic enabling the connector to be used in convection or infrared solder processes **Specifications:** • Pitch: 2.540mm • Contact Material: copper alloy • Contact Finish: gold **Applications:** • For use with both full ISO cards and micro SIM cards

5036 SERIES: Features: • SIM connector with mounting boss • Optional card retention lock • Low profile metal body • Integral SMT strain relief tabs • Card detect switch • Push/Push card ejector **Specifications:** • Contact Material: Phosphor Bronze • Contact Finish: Gold • Flammability Rating: UL94V-0 **Applications:** • GSM or WCDMA cell phones • Navigation systems • Portable data devices

Dim. in mm

Fig. 1

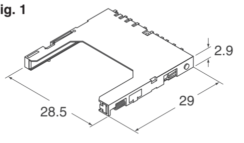

Fig. 2

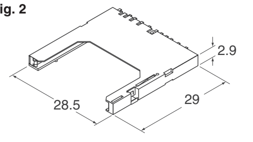

Fig. 3

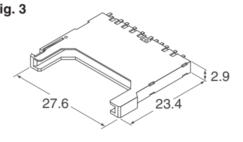

Fig. 4

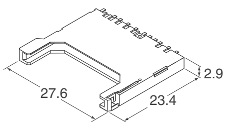

Fig. 5

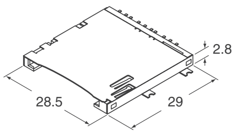

Fig. 6

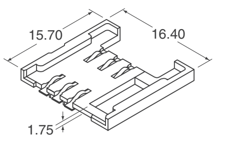

Fig. 7

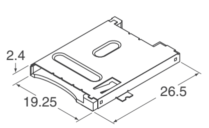

Fig.	Keying	PCB Mounting	Ejector Style	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	AVX Part No.
1	Normal	Top	Push/Push	478-4057-1-ND◆	4.79	3.72	2.97	250	598.13	145638009511859+
2	Reverse	Bottom	Push/Push	478-4058-1-ND◆	4.79	3.72	2.97	250	598.25	145638109511859+
3	Normal	Top	Without	478-4059-1-ND◆	3.19	2.48	1.98	350	558.25	145638009211859+
4	Reverse	Bottom	Without	478-4060-1-ND◆	3.77	2.93	2.34	350	659.75	145638109211859+
5	Connector Memory Card Normal I/O			478-2020-1-ND	3.77	2.93	2.34	250	471.25	145738009783862
				478-4061-1-ND◆	5.95	4.62	3.69	250	743.25	145738009784859+
	Connector Memory Card Reverse I/O			478-4647-1-ND◆	6.29	4.89	3.91	250	786.75	145738009210859+
6	Connector SIM Card Slide-in SMD			478-4366-1-ND◆	1.36	1.06	.85	1,100	705.00/M	009162006206175
7	Connector SIM Card 13.52mm with Boss			478-4062-1-ND◆	5.22	4.05	3.24	500	1305.00	045036006200862+
	Connector SIM Card 6 Pos. without Boss			478-4645-1-ND◆	5.16	4.01	3.21	300	774.30	055036006202862+

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND.

Compact Flash

Dim. in mm

Features: • Memory card connectors that support Compact Flash • Used for small portable devices **Specifications:** • Number of Contacts: 50 • Pitch: 1.27mm (0.05") • Current Rating: 0.5A Maximum • Voltage Rating: 5V Maximum • Mating Cycles: 10,000 **Applications:** • Digital cameras • Notebook PC • PDA

Fig.	Type	Keying	Ejector Style	Button Side	Digi-Key Part No.	Price Each 1	25	100	AVX Part No.
Connectors (ejectors not included) — RoHS Compliant									
1	I	Normal	—	—	478-4063-ND	5.51	4.28	3.42	315610050500871+
					478-4064-ND	6.24	4.84	3.87	315610050210871+
		Reverse	—	—	478-4649-ND	6.73	5.22	4.18	315610050260871+
					478-4650-ND	6.55	5.09	4.07	315610050550871+
2	II	Reverse	—	—	478-4651-ND	6.24	4.84	3.87	315620050716871+
Ejectors									
3	I	Normal	Foldable	Left	478-4065-ND◆	3.48	2.70	2.16	305610000005000+
4	I	Normal	Foldable	Right	478-2011-ND	3.54	2.75	2.20	305610000006000
					478-4066-ND◆	3.48	2.70	2.16	305610000006000+
5	II	Normal	Foldable	Right	478-4067-ND◆	3.05	2.37	1.89	305620000006000+
6	I	—	—	—	478-4505-ND◆	2.38	1.85	1.48	705610100000000+

◆ ***RoHS Compliant***

Fig. 1

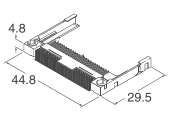

Fig. 2

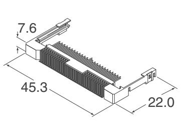

Fig. 3

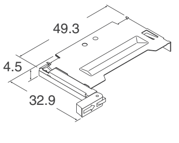

Fig. 4

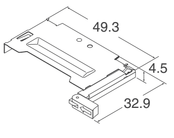

Fig. 5

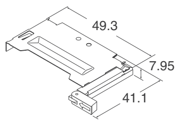

Fig. 6

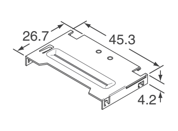

Compact Flash Type II Kit

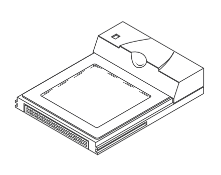

AVX offers a Compact Flash (C/F) Type II Card Kit that comes with a standard plastic extension. The C/F type II card kit consists of stainless steel covers, 50 position connector, plastic extensions and plastic frame. It obtains its rigidity from a unique snap feature design that locks the metal covers onto the plastic frame. The metal covers have an insulating film applied to them; this ensures that there is no short circuit between the components and the metal covers. The unique design of the kit can easily be assembled using a very simple and inexpensive bench press tool, which allows the covers to snap into the plastic frame.

Features: • Standard plastic extensions • Easy to assemble using a simple bench press tooling • Metal covers supplied with plastic insulating film

Applications: • PDAs (personal digital assistance) • Pagers • Digital cameras

478-4690-ND.......... **$21.52**

PCMCIA IC Memory Card Connectors

Fig. 1 — IC1 Series

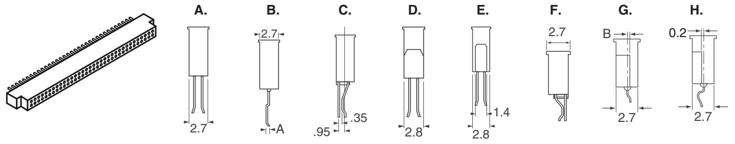

The IC1 Series connectors comply with Version 3 and Version 4.2, JEIDA and PCMCIA 2.0 Standards. **Features:** • Surface mount socket connectors (card side) • Off-center socket connectors high packaging profile • Surface mount header connectors are available

Fig. 2 — IC7 Series

The IC7 Series complies with JEIDA Version 4.2 and is suitable for use with PCMCIA Type III cards.

Features:

- Small and lightweight
- Two types of eject button, either left or right
- Equipped with a frame ground terminal

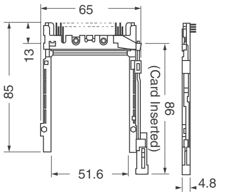

Fig.	No. of Pins	Type	Description	Digi-Key Part No.	Pricing 1	Pricing 10	Hirose Part No.
			Socket Connector Memory Card				
1A	68	I, II	2.7mm Dual	HR1181-ND◆	7.08	58.56	IC1F-68RD-1.27SH(52)
1B	68	I, II	Single Side, A = .3mm Single Side, A = .854mm	HR1182-ND◆ HR1183-ND◆	7.98 8.19	67.54 69.30	IC1F-68RD-1.27SF(52) IC1F-68RD-1.27SFA(52)
1C	68	I, II	Off-Center	HR1184-ND◆	7.36	62.26	IC1H-68RD-1.27SH(52)
1D	68	I, II	2.8mm Dual 2.8mm Dual	HR832-ND HR1185-ND◆	6.92 7.05	58.52 58.32	IC1BB-68RD-1.27SH IC1BB-68RD-1.27SH(52)
1E	68	I, II	2.8mm Dual	HR1186-ND◆	8.79	74.36	IC1BA-68RD-1.27SH(52)
1F	68	I, II	2.7mm Dual	HR1187-ND◆	5.02	41.52	IC1HA-68RD-1.27SH(51)
1G	68	I, II	2.7mm Dual, B = .3mm 2.7mm Dual, B = .9mm	HR1188-ND◆ HR1189-ND◆	6.18 6.18	51.12 51.12	IC1K-68RD-1.27SF(71) IC1K-68RD-1.27SFA(71)
1H	68	I, II	2.7mm Dual	HR1190-ND◆	6.18	51.12	IC1K-68RD-1.27SFB(71)
			Memory Card Connector				
2	68	I, II, III	Light Weight, Right Eject Light Weight, Left Eject Light Weight, Left Eject Light Weight, Rev Right Eject Light Weight, Rev Left Eject	HR1191-ND◆ HR817-ND HR1192-ND◆ HR1193-ND◆ HR1194-ND◆	9.29 8.89 9.29 9.29 9.29	80.80 75.24 80.80 80.80 80.80	IC7-68PD-1.27DS-EJR(72) IC7-68PD-1.27DS-EJL IC7-68PD-1.27DS-EJL(72) IC7-68PDR-1.27DS-EJR(72) IC7-68PDR-1.27DS-EJL(72)

◆ *RoHS Compliant*

Card Connector SD™

SPECIFICATIONS:

• Compatible with both SD card and multimedia card formats • Smooth push - push eject mechanism • Write protect switch indicator • Card polarization • Card detection indicator • Meets SD Card Association standards for known compatibility and reliability • Connector has a 10,000 cycle reliability

Physical: • Insulation Material: High Temperature Thermoplastic • Flammability: UL 94V-0 • Color: Black • Contact Material: Copper Alloy • Plating: Underplating: 50µ" minimum Nickel; Wiping Area: 10µ" minimum Gold; Termination Area: 100µ" maximum Matte-Tin

Electrical: • Current Rating: 0.5A • Operating Voltage: 3.6VAC

Environmental: • Operating Temperature: -25°C ~ 85°C

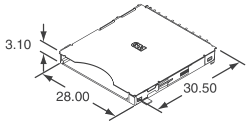

Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 300	3M Part No.
SD, Push - Push Ejector, Right Angle SMT	3M5646CT-ND	1.33	1.12	1.02	3M5646TR-ND	255.36	SD-RSMT-2-MQ-WF

Card Connector microSD™

SPECIFICATIONS:

• 1.85mm low profile height • Small size of 14.0mm x 14.2mm footprint • Smooth push - push eject mechanism • Card is retained when mated • Accepts card thickness of 0.8mm

Physical: • Insulation Material: High Temperature Thermoplastic • Flammability: UL 94V-0 • Color: Black • Contact Material: Copper Alloy • Plating: Underplating: 50µ" (1.27µm) minimum Nickel; Wiping Area: 15µ" (0.38µm) minimum Gold; Termination Area: 3µ" (0.076µm) maximum Gold flash

Electrical: • Current Rating: 0.5A

Environmental: • Operating Temperature: -25°C ~ 85°C

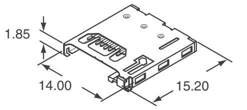

Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	3M Part No.
microSD, Push - Push Ejector, SMT	3M5607CT-ND	1.16	.98	.89	3M5607TR-ND	744.80	2908-05WB-MG

Tyco Electronics AMP

Authorized Distributor

CPU Sockets

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
1	LGA 771	A97502-ND	41.02	30.77	28.72	1-1747890-1
	LGA 775	A97503-ND	45.24	33.93	31.67	1-1746664-1
2	mPGA 638	A97504CT-ND†	12.78	9.09	—	1-1903401-4
3	mPGA 939/AM2	A97505-ND	16.49	11.73	10.63	1735315-4
	mPGA 940	A97509-ND	45.92	34.44	32.15	1761503-1
4	1207-F Right Lever	A97506-ND	20.00	15.00	14.00	1871554-1
5	mPGA 478A	A97507CT-ND†	23.11	16.44	—	1-1674770-2
	mPGA 478A	A97507TR-ND▲		2300.48/160		1-1674770-2
	mPGA 479M	A97508CT-ND†	21.58	15.35	—	1674770-6
	mPGA 479M	A97508TR-ND▲		2685.20/200		1674770-6

† Cut Tape ▲ Tape and Reel

Dim. in mm

Fig. 1

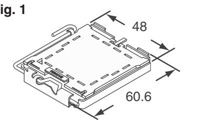

Fig. 2

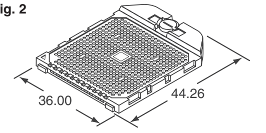

Fig. 3

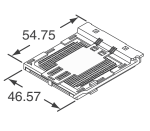

Fig. 4

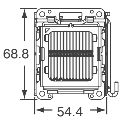

Fig. 5

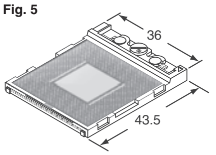

DDR, DDR2, DDR3 and Memory Socket Connectors

Fig.	Description	No. of Pos.	Gold Contact Interface	Voltage (V)	Dimensions (mm) A	B	Tail Length (mm)	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
1	DDR2 DIMM, Vertical, AMC, ATCA	240	30µ"	1.8	140.9	7.54	2.87	A97496-ND§	7.10	4.83	4.26	1888669-1
	DDR2 DIMM, Vertical, AMC, ATCA	240	30µ"	1.8	140.9	7.54	3.38	A97922-ND§ ***NEW!***	6.10	4.34	3.93	1888669-2
	DDR2 DIMM, Vertical	240	Flash	1.8	142.0	7.54	2.67	A97497-ND ***NEW!***	3.42	2.06	1.83	1775802-1
	DDR2 DIMM, Vertical	240	15µ"	1.8	142.0	7.54	2.67	A97918-ND ***NEW!***	3.96	2.82	2.56	1775802-2
	DDR2 DIMM, Vertical	240	Flash	1.8	142.0	7.54	3.18	A97919-ND ***NEW!***	2.57	1.83	1.66	1775802-3
	DDR2 DIMM, Vertical	240	15µ"	1.8	142.0	7.54	3.18	A97920-ND ***NEW!***	3.58	2.55	2.31	1775802-4
	DDR3 DIMM, Vertical	240	15µ"	1.5	141.0	7.54	2.67	A97921-ND ***NEW!***	3.96	2.82	2.56	1-932000-0
	DDR3 DIMM, Vertical	240	15µ"	1.5	141.0	7.54	3.18	A97917-ND ***NEW!***	3.58	2.55	2.31	1-932000-1
	Fully Buffered DIMM, Vertical	240	15µ"	25VAC	141.0	7.54	3.18	A97923-ND ***NEW!***	3.76	2.68	2.43	1761845-5
2	SO DIMM DDR2, SDRAM, Right Angle	200	Flash	1.8	71.0	5.2	—	A97498CT-ND†	4.12	2.93	—	1565917-4
	SO DIMM DDR2, SDRAM, Right Angle	200	Flash	1.8	71.0	5.2	—	A97498TR-ND▲		384.30/150		1565917-4
	SO DIMM DDR2, SDRAM, Right Angle, Reverse	200	Flash	1.8	71.0	5.2	—	A97499CT-ND†	4.23	3.01	—	1565918-4
	SO DIMM DDR2, SDRAM, Right Angle, Reverse	200	Flash	1.8	71.0	5.2	—	A97499TR-ND▲		394.80/150		1565918-4
	SO DIMM DDR2, Right Angle	200	Flash	1.8	71.5	4.0	—	A97500-ND§	21.80	15.51	14.06	1827236-4
	SO DIMM DDR2, Right Angle, Reverse	200	Flash	1.8	71.5	4.0	—	A97501-ND§	7.76	5.52	5.01	1717833-4
	SO DIMM DDR2, Right Angle, AMC, ATCA, Standard	200	Flash	1.8	69.6	5.2	—	A97913-ND ***NEW!***	12.47	8.87	8.04	1981276-4
	SO DIMM DDR2, Right Angle, AMC, ATCA, Reverse	200	Flash	1.8	69.6	5.2	—	A97914-ND ***NEW!***	12.47	8.87	8.04	1981281-4
	SO DIMM DDR2, Right Angle, AMC, ATCA, Standard	200	Flash	1.8	69.6	9.2	—	A97915-ND ***NEW!***	15.77	11.22	10.17	1981284-4
	SO DIMM DDR2, Right Angle, AMC, ATCA, Reverse	200	Flash	1.8	69.6	9.2	—	A97916-ND ***NEW!***	15.77	11.22	10.17	1981287-4
	MINIDIMM, Right Angle, Standard	244	Flash	1.8	93.0	9.79	—	A97925-ND ***NEW!***	17.55	12.48	11.31	1-1735438-3
	MINIDIMM, Right Angle, Reverse	244	Flash	1.8	93.0	9.79	—	A97924-ND ***NEW!***	17.57	12.50	11.33	1-1735438-1

† Cut Tape ▲ Tape and Reel § Low Profile

Fig. 1

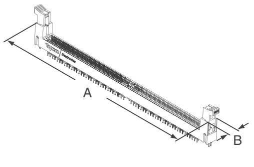

Fig. 2

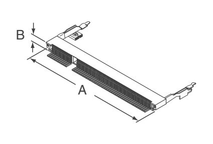

Secure Digital Memory Card Connector

Features: • Surface Mount Inline leads • Right Angle Mount • Housing Color: Ivory • Housing Material: Thermoplastic GF 30% • Contact Material: Phosphor Bronze • Contact Mating Area Plating: Gold

Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
A97495-ND	3.70	2.52	2.22	1734234-1

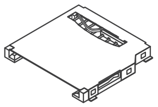

3M CF Card Headers

SPECIFICATIONS:

• Meets CFA Standards • .050" Pitch • Flammability: UL 94V-0 • Color: Beige • Current Rating: .5A • Operating Temperature: -40°C ~ 85°C **Materials**: • Insulation: Liquid Crystal Polyester (LCP) or High Temperature Thermoplastic • Contact: Copper Alloy

Fig.	Dim. A (mm)	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Qty.	Pricing	3M Part No.
1	47.35	CF Card Ejector - Right (for Fig. 2)	3M5435-ND◊	.87	.68	.54	—	—	7E50-B316-04
	49.5	CF Card Ejector, Dual Push - Right (for Fig. 2)	3M5436-ND◊	2.76	2.14	1.71	—	—	7E50-B516-05
	53.3	CF Card Ejector, Latching - Right (for Fig. 2)	3M5437-ND◊	3.48	2.70	2.16	—	—	7E50-B716-05
—	—	CF II Card Header with Ejector (7E50=B516-04)	3M5645CT-ND	9.34	7.25	5.80	—	—	N7E50-N516TC-40-WFA
2	—	Type I and II, SMD, Long Guide, 15Au	3M5445CT-ND	5.51	4.28	—	90	307.80	N7E50-M516RA-40-WF
		Type I and II, SMD, Long Guide, 15Au, with Standoff	3M5446CT-ND	5.51	4.28	—	90	307.80	N7E50-M516RA-50-WF
		Type I and II, SMD, Long Guide, 30Au	3M5447CT-ND	5.66	4.39	—	90	315.90	N7E50-M516RB-40-WF
		Type I and II, SMD, Long Guide, 30Au, with Standoff	3M5448CT-ND	5.66	4.39	—	90	315.90	N7E50-M516RB-50-WF
		Type I and II, SMD, Inverse, Long Guide, 15Au	3M5449CT-ND	5.51	4.28	—	90	307.80	N7E50-N516RA-40-WF
		Type I and II, SMD, Inverse, Long Guide, 15Au, with Standoff	3M5450CT-ND	5.51	4.28	—	90	307.80	N7E50-N516RA-50-WF
		Type I and II, SMD, Inverse, Long Guide, 30Au	3M5451CT-ND	5.66	4.39	—	90	315.90	N7E50-N516RB-40-WF
		Type I and II, SMD, Inverse, Long Guide, 30Au, with Standoff	3M5452CT-ND	5.37	4.17	—	90	299.70	N7E50-N516RB-50-WF
—	—	Type I, SMD Lo-Profile, Long Guide, Ejector Non-Acceptable	3M5444-ND◊‡Δ	9.22	7.16	5.73	—	—	N7E50-F516PK-30
3	—	Type I, SMD	3M5438-ND◊Δ	8.27	6.42	5.13	—	—	N7E50-7516PG-20
		Type I, SMD, Inverse	3M5439-ND◊Δ	8.00	6.21	4.97	—	—	N7E50-A516 PK-20
—	—	Card Retainer Clip (for Fig. 3)	3M5434-ND◊	2.29	1.78	1.43	—	—	3505-34
		Right Button Ejector (for Fig. 3)	3M5459-ND◊	4.21	3.27	2.61	—	—	D7E50-7316-02
4	—	Type I, SMD, Inverse, Lo-Profile, Ejector Acceptable	3M5440-ND◊‡Δ	8.70	6.75	5.40	—	—	N7E50-A516PK-30
		Type I, SMD Lo-Profile, Ejector Non-Acceptable	3M5441-ND◊Δ	8.70	6.75	5.40	—	—	N7E50-C516PK-30
		Type I, SMD Lo-Profile, Ejector Non-Acceptable	3M5442-ND◊‡Δ	8.67	6.73	5.39	—	—	N7E50-D516PG-30
		Type I, SMD Lo-Profile, Ejector Acceptable	3M5443-ND◊‡Δ	8.70	6.75	5.40	—	—	N7E50-E516PK-30
—	—	Ejector Button Right Side(for Fig. 4)	3M5460-ND◊	4.99	3.87	3.10	—	—	D7E50-8316-03
5	—	Type I and II, SMD, 15Au	3M5453CT-ND	5.37	4.17	—	125	416.25	N7E50-Q516RA-40-WF
		Type I and II, SMD, 15Au, with Standoff	3M5454CT-ND	5.37	4.17	—	125	416.25	N7E50-Q516RA-50-WF
		Type I and II, SMD, 30Au	3M5455-ND◊	3.97	3.09	2.47	—	—	N7E50-Q516RB-40
		Type I and II, SMD, 30Au, with Standoff	3M5456CT-ND	5.51	4.28	—	125	427.50	N7E50-Q516RB-50-WF
		Type I and II, SMD, Inverse, 15Au, with Standoff	3M5457CT-ND	5.37	4.17	—	125	416.25	N7E50-R516RA-50-WF
		Type I and II, SMD, Inverse, 30Au, with Standoff	3M5458CT-ND	5.51	4.28	—	125	427.50	N7E50-R516RB-50-WF

‡ With Solder Tab Δ Gold Flash Finish † For Tape and Reel part number, change CT-ND to TR-ND. ◊ Bulk

Fig. 1

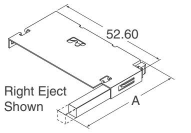

Fig. 2

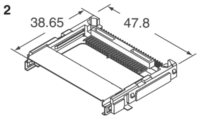

Fig. 3

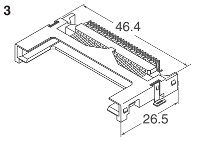

Fig. 4

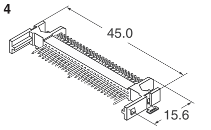

Fig. 5

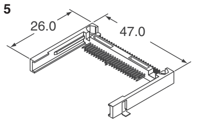

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

HIROSE ELECTRIC CO.,LTD.

PCMCIA IC Memory Card Connectors

Fig. 1

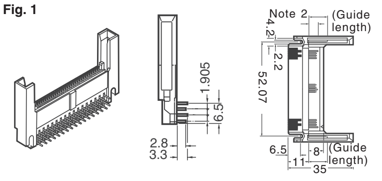

Fig. 2

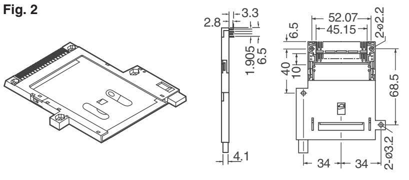

Fig. 3

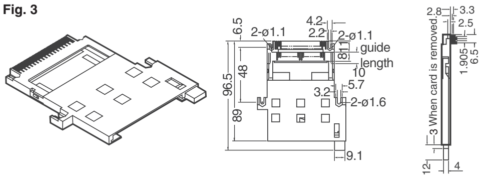

Fig. 4

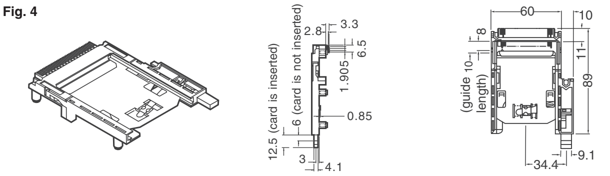

Fig. 5

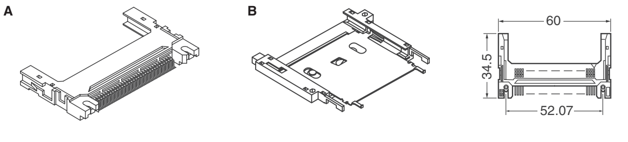

Features:

• Leading features of PCMCIA standard of mis-insertion prevention mechanism and sequencing mechanism for circuit protection, are incorporated • Receptacle is of surface mount type • Pushbutton switch of ejecting section has an inner spring which makes the pushbutton free from vibration.

Materials:

• Insulator: Black PPS UL94V-0 • Contact: Selective gold plating • Ejector: SUS

Electrical Specifications:

• Current Rating: 0.5A per pin • Rated Voltage: 125VAC • Withstanding Voltage: 500VAC for one minute at specified value • Insulation Resistance: Minimum 1000MΩ at 500VDC • Contact Resistance: Maximum 40mΩ at 1mA DC

Fig.	No. of Pins	Type	Description	Digi-Key Part No.	Pricing 1	Pricing 10	Hirose Part No.
1	68	I, II	Memory Card Connector	HR1195-ND◆	7.08	58.56	IC1FA-68PD-1.27DS(72)
	68	I, II	Memory Card Connector with Ejecting Mechanism	HR1196-ND◆	11.64	107.67	IC1G-68PD-1.27DS-EJ(72)
2	68	I, II	With Ejector and ESD Groundings Features	HR810-ND	11.84	109.52	IC1G-68PD-1.27DS-EJ-E
	68	I, II	With Ejector and ESD Groundings Features	HR1197-ND◆	12.26	113.41	IC1G-68PD-1.27DS-EJ-E(72)
3	68	I, II	Memory Card Connector with Ejecting Mechanism	HR1198-ND◆	13.52	125.06	IC1F-68PD-1.27DS-EJ(72)
4	68	I, II	Memory Card Connector with Ejecting Mechanism and Std-off	HR1199-ND◆	11.64	107.67	IC1FB-68PD-1.27DS-EJ(72)
5A	68	I, II	SMT Connector without Ejector	HR1200-ND◆	9.22	80.20	IC1G-68PD-1.27SF(72)
5B	68	I, II	SMT Ejector for HR1200-ND	HR806-ND◆	6.76	57.20	IC1G-68PD-EJ

◆ *RoHS Compliant*

PCMCIA Connectors IC11S Series

Features: • Grounding is required to meet the high speed signal requirements of the PC card standard • Grounding reliability is achieved with a grounding plate and 8 grounding contacts • Type I, II and III are covered. The terminals for ground clipping are provided • Connector height is minimized to 5.6mm, making possible thinner product designs • Weight of 12.7g for normal button type helps achieve the reduced weight required in todays products

Material: Insulator: • PPS • Black finish • UL94V-0

Contact: • Card Connected Section: • Brass • Contact section: Gold Plating • Lead Section: Solder Plating • Contact Ground Plate: • Phosphor Bronze • Contact Section: Gold Plating • Lead Section: Solder Plating Eject Metal Fittings, Guide Plate and Push Rod: • Stainless Steel Eject Button: • PBT • Black finish • UL94V-0

Electrical Specifications: • Current Rating: 0.5A per pin • Rated Voltage: 125VAC • Withstanding Voltage: 500VAC for one minute at specified value • Insulation Resistance: Minimum 1000MΩ at 500VDC • Contact Resistance: Maximum 40MΩ at 1mA DC • Operating Temperature: -55°C ~ 85°C

Connectors and Ejection guides are sold separately.

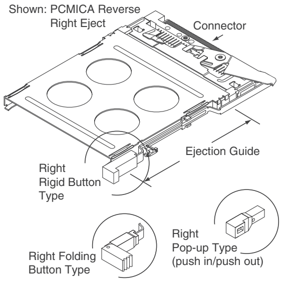
Shown: PCMICA Reverse Right Eject
Connector
Ejection Guide
Right Rigid Button Type
Right Pop-up Type (push in/push out)
Right Folding Button Type

Description	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50	Hirose Part No.
PCMCIA Standard Right Eject					
SMT Connector, 68 position 1.27mm	HR1127-ND	8.28	72.00	324.00	IC11S-68PL-1.27SF-EJR
Guide Rigid Button	HR1128-ND	3.97	32.88	137.00	IC11S-BD-EJR
Guide Folding Button	HR1129-ND	4.84	40.08	167.00	IC11S-BD-FEJR
Guide Pop-Up Button	HR1130-ND	6.35	52.56	219.00	IC11S-BD-PEJR
Guide Rigid Button	HR1133-ND	3.97	32.88	137.00	IC11SA-BD-EJR
Guide Folding Button	HR1134-ND	4.84	40.08	167.00	IC11SA-BD-FEJR
PCMCIA Standard Right Eject — RoHS Compliant					
SMT Connector, 68 position 1.27mm	HR1201-ND	8.58	74.60	335.70	IC11S-PL-SF-EJR(71)
Guide Pop-Up Button	HR1202-ND	6.58	54.48	227.00	IC11S-BD-PEJR(71)
Guide Extended Pop-Up Button	HR1203-ND	3.74	30.96	129.00	IC11S-BD-PNEJR(71)
SMT Connector, 68 position 1.27mm	HR1204-ND	8.58	74.60	335.70	IC11SA-PL-SF-EJR(71)
Guide Pop-Up Button	HR1205-ND	6.58	54.48	227.00	IC11SA-BD-PEJR(71)
Guide Extended Pop-Up Button	HR1206-ND	3.74	30.96	129.00	IC11SA-BD-PNEJR(71)

Description	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50	Hirose Part No.
PCMCIA Standard Left Eject — RoHS Compliant					
Guide Rigid Button	HR1138-ND	3.97	32.88	137.00	IC11S-BD-EJL
Guide Folding Button	HR1139-ND	4.84	40.08	167.00	IC11S-BD-FEJL
Guide Rigid Button	HR1143-ND	3.97	32.88	137.00	IC11SA-BD-EJL
Guide Folding Button	HR1144-ND	4.84	40.08	167.00	IC11SA-BD-FEJL
SMT Connector, 68 position 1.27mm	HR1207-ND	8.58	74.60	335.70	IC11S-PL-SF-EJL(71)
Guide Pop-Up Button	HR1208-ND	6.58	54.48	227.00	IC11S-BD-PEJL(71)
Guide Extended Pop-Up Button	HR1209-ND	3.74	30.96	129.00	IC11S-BD-PNEJL(71)
SMT Connector, 68 position 1.27mm	HR1210-ND	8.58	74.60	335.70	IC11SA-PL-SF-EJL(71)
Guide Pop-Up Button	HR1211-ND	6.58	54.48	227.00	IC11SA-BD-PEJL(71)
Guide Extended Pop-Up Button	HR1212-ND	3.74	30.96	129.00	IC11SA-BD-PNEJL(71)
PCMCIA Reverse Right Eject — RoHS Compliant					
Guide Folding Button	HR1149-ND	5.28	43.68	182.00	IC11S-BUR-FEJR
Guide Rigid Button	HR1153-ND	3.97	32.88	137.00	IC11SA-BUR-EJR
Guide Folding Button	HR1154-ND	5.28	43.68	182.00	IC11SA-BUR-FEJR
SMT Connector, 68 position 1.27mm	HR1213-ND	8.71	73.70	309.88	IC11S-PLR-SF-EJR(71)
Guide Pop-Up Button	HR1214-ND	6.58	54.48	227.00	IC11S-BUR-PEJR(71)
Guide Extended Pop-Up Button	HR1215-ND	3.74	30.96	129.00	IC11S-BUR-PNEJR(71)
SMT Connector, 68 position 1.27mm	HR1216-ND	8.71	73.70	309.88	IC11SA-PLR-SF-EJR(71)
Guide Pop-Up Button	HR1217-ND	6.58	54.48	227.00	IC11SA-BUR-PEJR(71)
Guide Extended Pop-Up Button	HR1218-ND	3.74	30.96	129.00	IC11SA-BUR-PNEJR(71)
PCMCIA Reverse Left Eject					
SMT Connector, 68 position 1.27mm	HR1162-ND	8.40	71.06	298.78	IC11SA-68PLR-1.27SF-EJL
PCMCIA Reverse Left Eject — RoHS Compliant					
Guide Rigid Button	HR1158-ND	3.97	32.88	137.00	IC11S-BUR-EJL
Guide Folding Button	HR1159-ND	5.28	43.68	182.00	IC11S-BUR-FEJL
Guide Rigid Button	HR1163-ND	3.97	32.88	137.00	IC11SA-BUR-EJL
Guide Folding Button	HR1164-ND	5.28	43.68	182.00	IC11SA-BUR-FEJL
SMT Connector, 68 position 1.27mm	HR1219-ND	8.71	73.70	309.88	IC11S-PLR-SF-EJL(71)
Guide Pop-Up Button	HR1220-ND	6.58	54.48	227.00	IC11S-BUR-PEJL(71)
Guide Extended Pop-Up Button	HR1221-ND	3.74	30.96	129.00	IC11S-BUR-PNEJL(71)
SMT Connector, 68 position 1.27mm	HR1222-ND	8.71	73.70	309.88	IC11SA-PLR-SF-EJL(71)
Guide Pop-Up Button	HR1223-ND	6.58	54.48	227.00	IC11SA-BUR-PEJL(71)
Guide Extended Pop-Up Button	HR1224-ND	3.74	30.96	129.00	IC11SA-BUR-PNEJL(71)

DIMM Sockets — SX1 Series

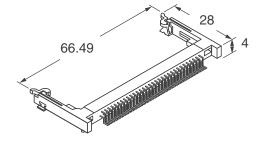

Features: The SX1 Series of horizontal SMT type sockets with 0.635mm pitch comply with the "Small Outline DIMM" specification standardized by JEDEC. Compared with the 72-pin DRAM SIMM socket, these SX1 sockets are about half the size. These sockets can be used in applications requiring double density (i.e., both sides) and permit module boards to be designed with higher level functions and higher density.

Applications: Personal computers, office automation equipment, measuring instruments, communications equipment, medical equipment, factory automation, game machines, EWS, general-use computers, etc.

Ratings: • Temperature Range: -55°C ~ 85°C • Voltage: 25V AC • Current: 0.5A

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Hirose Part No.
Low Profile						
72	Height 4.0mm, DIMM key 5V	H2347-ND	6.41	4.98	3.98	SX1EA-72S-0.635SH

HIROSE ELECTRIC CO.,LTD.

Memory Stick® Connectors

Features: The connector will not allow the card to be completely inserted from the wrong end or reversed

Specifications: • Insulation Resistance: 1000MΩ minimum • Withstanding Voltage: No Flashover or insulation break-down • Contact Resistance: 100mΩ maximum • Durability (mating/ unmating): 12,000 cycles at 400 to 600 cycles per hour • Current Rating: 0.5A • Voltage rating: 125VAC • Operating Temperature: -20°C ~ 85°C

Materials: • **Insulator:** Heat resistant glass reinforced thermoplastic compound, Black, UL94V-0 • **Contacts:** Phosphor Bronze, Contact Area: Gold plating, Termination Area: Solder plating • **Metal Hold Down:** Phosphor Bronze, Contact Area: Nickel plating, Termination Area: Solder plating • **Cover:** Stainless Steel • **Ejection Mechanism Components:** Stainless Steel

Dimensions in mm

Fig. 1

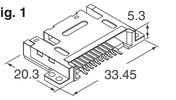

Fig. 2

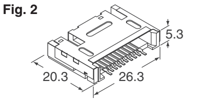

Fig. 3

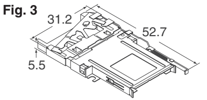

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
3	10 Position, Right Ejection	HR800-ND	7.33	6.21	4.66	CB1C-10S-1.5H-EJR
RoHS Compliant						
1	10 Pos. w/Flange for Screw Attachment	HR1837-ND	5.54	4.59	3.44	CB1A-10S-1.5H(52)
2	10 Position without Flange	HR1838-ND	4.76	3.94	2.96	CB1AA-10S-1.5H(52)
3	10 Position, Right Ejection	HR1836-ND	8.22	6.96	5.22	CB1C-10S-1.5H-EJR(52)

DM1 Series Secure Digital Memory Card Connectors

Features: • Metal cover extends over the back of the connector allowing it to withstand force of up to 400N (static load) when dropped or accidentally hit • Built-in lock feature holds the card securely in place • Built-in Push-in/Push-out ejection mechanism • Designed to accept secure Digital I/O card (Built-in Ground Contact)
Applications: Notebook PCs, digital cameras, PDAs, audio/video equipment and other devices utilizing SD I/O cards

Fig. 1

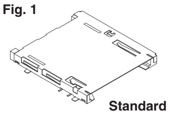

Standard Type

Fig. 2

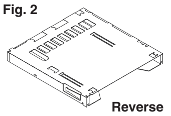

Reverse Type

Fig.	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	T & R Pricing 450	Hirose Part No.
1	HR845CT-ND	3.86	74.81	239.40	HR845TR-ND	868.05	DM1AA-SF-PEJ(21)
2	HR846CT-ND	3.34	64.69	207.00	HR846TR-ND	750.60	DM1B-DSF-PEJ(22)

DM2 Series miniSD™ Memory Card Connectors

Features: • The world's smallest mounting area with the world's smallest depth • Card capturing mechanism prevents card from flying out at ejection • Ejection does not work for reverse insertion detecting mis-insertion easily. Card is firmly locked in use for card fall-out prevention • Enhanced grounding for noise (EMI) reduction (PAT.P) • Reliable two-point connection with double contacts

Dimensions in mm

Applications: • Mobile phone • PDA

Specifications: • Current Rating: 0.5A • Contact Mating Area Plating: Gold • Operating Temperature Range: -20°C ~ 85°C • PCB Mount Type: SMT

Fig. 1

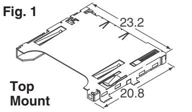

Top Mount

Fig. 2

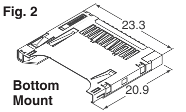

Bottom Mount

Fig.	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	T & R Pricing 800	Hirose Part No.
1	HR847CT-ND	2.44	47.25	151.20	HR847TR-ND	893.60	DM2A-SFW-PEJ-S
2	HR848CT-ND	2.44	47.25	151.20	HR848TR-ND	893.60	DM2B-DSFW-PEJ-S

DM3 Series microSD™ Memory Card Connectors

Features: • Miniaturized design for space-saving PCB mounting • Innovative tray slide ejector of card push-in push-out ejection prevents card from flying out • User-friendly mis-insertion prevention to protect the card from damages caused by unintentional card operation • Innovative card push-in push-out ejection realizes long card ejection travel of 4mm with miniature size • 4 corners of metal cover earthed on PCB enhance grounding and increase the shield effect.

Specifications: • **Current Rating:** 0.5A • **Operating Temperature:** -25°C ~ 85°C • **Contact Mating Area:** Gold plating • **Terminal Pitch:** 11mm • **PCB Mount Type:** SMD

Dimensions in mm

Fig. 1

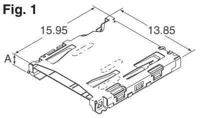

Fig. 2

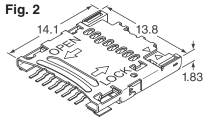

Fig. 3

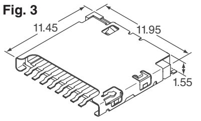

Fig.	No. of Pins	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	8	Right Angle Push-Push SMD	1.68	HR1939CT-ND† HR1939TR-ND‡	2.83 1735.50/1,500	2.18	1.74	DM3AT-SF-PEJ(40)
	8	Right Angle Push-Push SMD (Reverse Type)	1.83	HR1938CT-ND† HR1938TR-ND‡	2.83 1388.40/1,200	2.18	1.74	DM3B-DSF-PEJ
2	8	Right Angle Push-Pull Hinge Type SMD	—	HR1940CT-ND† HR1940TR-ND‡	2.02 1072.50/1,300	1.55	1.24	DM3C-SF
3	8	Right Angle Push-Pull SMD	—	HR1941CT-ND† ***NEW!*** HR1941TR-ND‡ ***NEW!***	1.92 1504.00/2,000	1.48	1.18	DM3D-SF

† Cut Tape ‡ Tape and Reel

Compact Flash Card Connectors

Card Headers - MI21 Series-Type I or II Cards

Features: • Compact design • Card ejection mechanism • Two point ejection mechanism to assure even card ejection • Designed and packaged for board placement with automatic equipment

Materials and Finishes: • **Insulator:** PPS resin, Black, UL94V-0 • **Contacts:** Brass • **Engagement Area:** Gold plating of 0.1µm • **Termination Area:** Solder plating • **Reinforced Fitting:** Brass, Applied to eject mechanism • **Eject Fitting:** Stainless steel • **Ground Clip:** Stainless steel, Applied to MI21 • **Nut:** Steel, Solder plating. • **Max. Reflow Temperature:** 240°C

Fig. 1

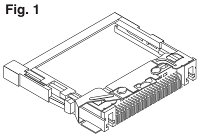

Fig. 2

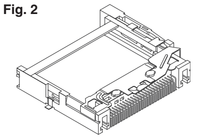

Fig. 3

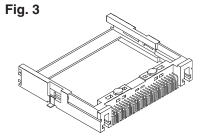

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
3	No Eject Button, No Offset, Reverse Mounting	H3233-ND	6.53	5.53	4.15	MI21A-50PDR-SF
RoHS Compliant						
1	Rt. Side Eject Button, 0.0mm, Standard Mounting	H10740-ND	7.83	6.63	4.97	MI21-50PD-SF-EJR(71)
	Rt. Side Eject Button, 2.2mm, Standard Mounting	H10736-ND	7.80	6.60	4.95	MI21A-50PD-SF-EJR(71)
2	Lt. Side Eject Button, No Offset, Standard Mounting	H10741-ND	7.54	6.38	4.79	MI21-50PD-SF-EJL(71)
	Lt. Side Eject Button, 2.2mm Offset, Stnd. Mounting	H10737-ND	8.37	7.09	5.32	MI21A-50PD-SF-EJL(71)
3	No Eject Button, No Offset, Standard Mounting	H10742-ND	7.36	6.23	4.67	MI21-50PD-SF(71)
	No Eject Button, No Offset, Reverse Mounting	H10739-ND	7.05	5.84	4.38	MI21A-50PDR-SF(71)
	No Eject Button, 2.2mm Offset, Standard Mounting	H10738-ND	6.97	5.90	4.43	MI21A-50PD-SF(71)

PC Card Connectors for PC CardBus IC11 Series

Features: **Space-Saving Design:** Miniature and thin at 62.9mm (width) x 85mm (length) x 5.65mm (height). **Increased Degree of Card Ejection:** An original ejection design increases the degree of card ejection

Materials: Insulation: • SMT Portion - Liquid crystal polymer (UL94V-0), beige • Card Guide Portion - PBTresin (UL94V-0), black • Eject Button - PBT resin (UL94V-0), black **Contacts:** • Signal Portion - Brass with partial gold plating • CardBus Ground Plate Portion - Phosphor bronze with partial gold plating

Description	Digi-Key Part No.	Pricing 1	10	50	Hirose Part No.
Ejector PC CardBus Connector					
Right	HR843-ND	4.70	38.88	162.00	IC11-BD-EJR
Left	HR844-ND	4.70	38.88	162.00	IC11-BD-EJL

HR843-ND
Right

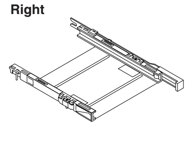

HR844-ND
Left

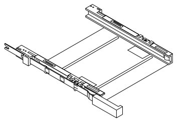

PC Card Single Slot SMT Connectors for the AV Market - IC15 Series

Features: • Smooth card ejection • Ejection button will not pop out without PC card, for button damage prevention.
Applications: DVD recorders, LCD TVs, PDP and other digital AV equipment
Specifications: • Current Rating: 0.5A • Operating Temperature: -55°C ~ 85°C • Voltage Rating: 125VAC • Insulation Resistance: 100MΩ minimum • Contact Resistance: 60mΩ maximum (Initial value) • Vibration: No electrical discontinuity of 100ns or more.
Materials: Finish: Insulator: Black, UL94V-0 • Contacts: Brass: Contact Area Gold plated, Termination Area: Tin plated • Ground/Eject Metal Fittings: Stainless Steel • Positioning Pin: Brass, Tin plated • Frame: Black, UL94V-0 • Cover/Metal Components: Stainless • Spring: Stainless steel • Ejection Button: Gray, UL94V-HB

Digi-Key Part No.	Pricing 1	10	50	Hirose Part No.
PC Card Guide Connector Assembly				
H5005-ND	4.96	41.04	171.00	IC15A-G-PEJL
68 Position PC Card Connector for the AV Market				
H5003-ND	3.89	32.16	134.00	IC15A-PDR-SF-EJL
H5004-ND	3.97	32.88	137.00	IC15A-PDR-SFM-EJL

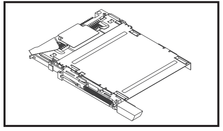

Smart Card Sockets

Features: • Suited to Smart Cards Conforming to ISO-7816 • Sockets are available with 8 contacts only, in conformity with ISO-7816 • A switch that detects whether the smart card has been inserted securely prevents erroneous operation. This switch will be set to OFF (i.e., the nonconducting condition) when the smart card has been inserted all the way.
Applications: Digital satellite broadcast receivers (IRD) and other devices that use smart cards.
Specifications: • **Current Rating**: 1A • **Voltage Rating**: 150VAC • **Operating Temperature**: -50°C ~ 80°C • **Operating Humidity**: 40% ~ 80% **Material**: • **Insulator**: PBT • **Finish**: Black • **Signal Contacts**: Phosphor bronze • **Contact Portion**: Gold plating • **Lead Portion**: Solder plating • **Switch Contacts**: Phosphor bronze or brass • **Finish**: Gold plating

Dimensions in mm

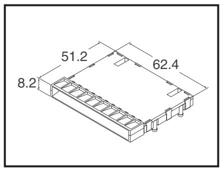

No. of Pins	Description	Digi-Key Part No.	Pricing 1	10	50	Hirose Part No.
8	Smart Card, 2.54mm, Right Angle Connector	H10744-ND	5.02	41.52	173.00	ID2M-8S-2.54DS(72)

SIMM Sockets

Features and Benefits: • Zero insertion for contacts improve socket and module contact life and provide for fast on-line assembly • Guaranteed 2 points of contact per readout with standard JEDEC module • Anti-overstress latch feature provides extra protection during module removal • Polarization posts provide orientation for proper loading of socket into printed circuit board • Polarization rib properly orients module to socket • EIA standard dimensions
Electrical Specifications: • Voltage: 250V • Current: 1.0A • Contact Resistance: 30mΩ maximum • Dielectric Withstanding Voltage: 1000VAC • Insulation Resistance: 5000MΩ minimum • Capacitance: 2.5 pF maximum
Mechanical Specifications: • Normal Force: 150g • Durability: 25 cycles
Physical Specifications: • Housing: Black LCP, UL94V-0 • Latch: Stainless Steel • Contact: Phosphor Bronze Alloy • Temperature: -40°C ~ 85°C

Fig. 1

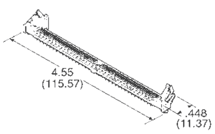

Left Polarization
Low Profile (40°)
Single Row, Metal Latch

Fig. 2

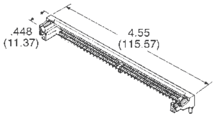

Left Polarization,
Right Angle
Single Row, Metal Latch

Fig. 3

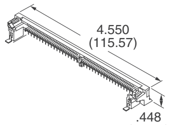

Left Polarization
Right Angle
Single Row, Metal Latch, SMT

Fig.	Plate	Digi-Key Part No.	Price Each 1	25	50	100	Molex Part No.
1	Tin	WM1706-ND	5.38	4.93	4.48	4.04	15-82-0649
2	Tin	WM1709-ND	8.41	7.72	7.02	6.32	15-82-1538
3	Gold	WM18502-ND	16.83	15.43	14.03	12.63	15-82-0328

DIMM Sockets

Features: • Accepts JEDEC M0-161 modules • Dual ejector latches for easy module removal • Palladium nickel with gold flash plating for improved reliability • Added contact wipe for improved reliability
Electrical Specifications: • Voltage: 100V • Current: 1.0A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 750VAC • Insulation Resistance: 100MΩ minimum
Mechanical Specifications: • Mating Force: 5 oz. per pair • Durability: 25 cycles minimum
Physical Specifications: • Housing and Latch: High temperature resistant thermoplastic, UL94V-0 • Contact: Phosphor Bronze • Plating: Selective palladium nickel with gold flash with tin/lead on solder tails • Temperature: -40°C ~ 85°C

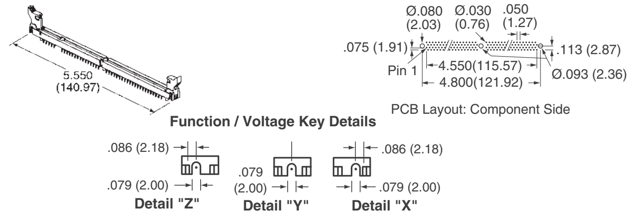

Description	Circuits	Function Key	Voltage Key	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
DRAM 3.3V	168	Detail Y	Detail Y	WM1710-ND	6.06	5.56	5.06	71251-0001
SDRAM 3.3V	168	Detail Z	Detail Y	WM1714-ND◆	6.06	5.56	5.06	71251-0016
Unbuffered 3.3V	168	Detail X	Detail Y	WM1712-ND◆	6.06	5.56	5.06	71251-0012
Unbuffered 3.3V	168	Detail X	Detail Y	WM18720-ND◆	6.28	5.76	5.23	71736-0011
DRAM and SDRAM 3.3V	168	Detail Y	Detail Y	WM18497-ND◆†	4.81	4.42	4.02	71736-0001
DRAM and SDRAM 3.3V	168	Detail X	Detail Y	WM2062-ND◆	6.13	5.62	5.11	87587-2050
DRAM and SDRAM 3.3V	168	Detail X	Detail Y	WM2063-ND◆	6.13	5.62	5.11	87587-2059

◆ ***RoHS Compliant*** † White glass-filled LCP, UL94-0

DDR DIMM Sockets

Features: • Accepts JEDEC MO-206 modules • Dual ejector latches for easy module removal
Electrical: • Voltage: 125VAC • Current: 1.0A • Contact Resistance: 40mΩ maximum • Dielectric Withstanding Voltage: 500VAC • Insulation Resistance: 1000 MΩ minimum
Physical: • Housing: High-temperature, UL94V-0 • Contact Plating: 15µ" gold

Fig. 1

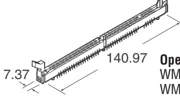

Operating Temperature:
WM7315-ND -10°C ~ 85°C;
WM7319-ND -40°C ~ 85°C
Contact: Phosphor Bronze

Fig. 2

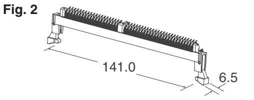

Operating Temp: -40°C ~ 85°C
Contact: Copper Alloy

Fig. 3

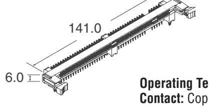

Operating Temp: -10°C ~ 85°C
Contact: Copper Alloy

Fig. 4

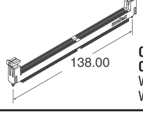

Operating Temp: -10°C ~ 85°C
Contact: Copper Alloy
WM2064-ND 15µ" gold
WM2065-ND 30µ" gold

Fig.	Description	Circuits	Voltage Key	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	Vertical	184	Left (2.5V)	WM7319-ND WM7315-ND	6.49 6.19	5.95 5.68	5.41 5.16	71243-3002 87636-2002
2	25° Angle, Low Profile	184	Left (2.5V)	WM7316-ND	8.36	7.67	6.97	87623-2001
3	Right Angle	184	Left (2.5V)	WM7317-ND	13.55	12.43	11.30	87655-0004
4	Vertical	240	Center (1.8V)	WM2064-ND WM2065-ND	7.29 8.40	6.69 7.70	6.08 7.00	87705-0021 87705-1051

S.O. DIMM Sockets

Features and Benefits: • 144 circuits • S.O. DIMM sockets accept JEDEC standard DRAM and SDRAM modules; SGRAM socket accepts JEDEC standard SGRAM modules • Plastic latch prevents scratching of module, while metal anti-overstress feature protects latch from bending too far in or out • Front solder tabs provide secure PCB hold-down • Polarization key assures proper module insertion **Electrical Specifications:** • Power Supply: 3.3V • Voltage: 100V • Current: 0.3A • Dielectric Withstanding Voltage: 200V AC/1 minute • Insulation Resistance: 1000MΩ minimum **Physical Specifications:** • Temperature: -55°C ~ 85°C

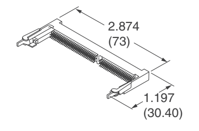

Description	Max. Contact Resistance	Mounted Height	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
SMT, Right Angle	60mΩ	5.2mm	WM18581-ND	7.92	7.26	6.60	54698-7000
SMT, Right Angle	50mΩ	4.0mm	WM18588-ND	6.66	6.11	5.55	54697-7000

miniDIMM Sockets

Features: • Polarization keys ensure proper module insertion • Ergonomic plastic latch provides excellent module retention and easy ejection of module • Center plastic peg ensures good location during placement to PCB • Fitting nails at both ends and center of housing will provide additional mechanical strength after soldering • Low profile socket will fit into slim enclosures
Electrical Specifications: • Current: 0.5A maximum • Voltage: 100V maximum • Voltage Key: 1.8V • Withstanding Voltage: 500VAC • Insulation Resistance: 1000MΩ minimum
Physical Specifications: • Black, UL94V-0 • Contacts: Copper Alloy • Plating Contacts: 0.76µm gold • Plating Tail: Tin • Temperature Range: -10°C ~ 85°C

Fig. 1

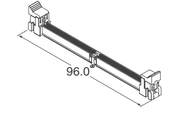

Fig. 2

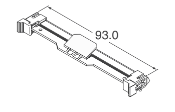

Fig. 3

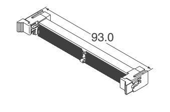

Fig.	Description	Circuits	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	Vertical (Top entry)	244	WM23938-ND	23.32	21.38	19.44	87782-2001
2	22.5° Angle	244	WM23939-ND	24.17	22.16	20.14	87783-0001
3	Right Angle (Side entry)	244	WM23940-ND WM2066-ND	24.17 24.17	22.16 22.16	20.14 20.14	78001-1244 87918-0001

ExpressCard™

Electrical Specifications: ***(47150 Series Header):*** • Current: 0.75A maximum • Voltage: 3.3VDC maximum • Withstanding Voltage: 500VAC • Contact Resistance: 55mΩ maximum • Insulation Resistance: 100MΩ minimum ***(47150 Series Ejectors):*** • Current: 0.75A maximum • Voltage: 3.3VDC maximum • Shielded ***(47322 Series Headers and Ejector):*** • Current: 0.75A maximum • Voltage: 3.3VDC maximum
Physical Specifications: ***(47150 Series Header):*** • Housing Material: Thermoplastic, High Temperature • Contact Material: Phosphor Bronze • Plating Tail: Tin, Lead-free • Plating Contact: Gold • Flammability: UL94V-0 • Pitch: .039" (1.00mm) ***(47322 Series Headers):*** • Contact Material: Phosphor Bronze • Plating Tail: Tin • Plating Contact: Gold • Pitch: .039" (1.00mm) ***(47150 Series Ejectors):*** • Material: Stainless Steel • Push-Push Type ***(47322 Series Ejectors):*** • Push-Push Type
Operating Temperature Range: ***(47150 Series Headers and Ejector):*** • 0°C ~ 55°C ***(47322 Series Headers and Ejector):*** • -40°C ~ 85°C

Fig. 1

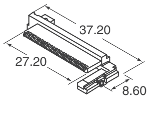

Fig. 2

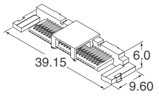

Fig. 3

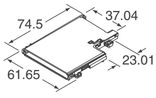

Fig. 4

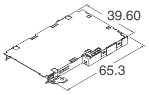

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	Header, 26 Circuits, SMT, Top Mount	WM9006-ND	3.19	2.93	2.66	47150-0002
2	Header, 26 Circuits, SMT, Bottom Mount	WM9016CT-NDΔ WM9016TR-ND‡	2.30	1.95 791.20/800	1.77	47322-0002 47322-0002
3	Ejector Top Mount without Bottom Shell for 54mm (2.13") Width Card	WM9007-ND	7.20	6.60	6.00	47150-0003
	Ejector Top Mount with Bottom Shell for 54mm (2.13") Width Card	WM9008-ND	7.55	6.92	6.29	47150-0004
4	Ejector Bottom Mount for 34mm (1.34") Width Card	WM9016-ND	4.24	3.89	3.54	47322-0003

Δ Cut Tape ‡ Tape and Reel

SD Memory Card Connector

Physical Specifications: • **Housing Material:** Liquid Crystal Polymer • **Flammability:** UL94V-0 • **Color:** Black • **Contact:** Copper Alloy • **Plating Tail:** Gold • **Plating Contact:** Gold • **Button Type:** Push-Push • **Shielded:** Yes • **PCB Mounting:** Surface Mount • **PCB Mounting Side:** Top

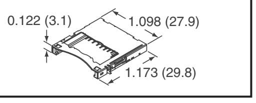

Current Max.	Voltage Max.	Withstanding Voltage	Contact Resistance	Insulation Resistance	Digi-Key Part No.	Price Each 1	25	100	Molex Part No.
0.5A	100VAC	500VAC	80mΩ	1000MΩ	WM24032CT-NDΔ WM24032TR-ND‡	5.51	4.24 949.60/400	3.40	500998-0900 500998-0900

Δ Cut Tape ‡ Tape and Reel

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Miniature Memory Card Connector System

miniSD Memory Card Connector, Normal Mount Type: Mounting Specifications: • Surface Mount; Top • PCB Retention: Solder Tab - Surface Mount • Circuits - PCB: 11 • PCB Pitch: 1.30mm (.051 inch) **Electrical Specifications:** • Current (max.): 0.5A • Voltage (max.): 10V • Withstanding Voltage: 500VAC • Contact Resistance: 100mΩ max. • Insulation Resistance: 1000MΩ min. • Contact Retention Force-min. (per circuit): 0.98N (0.22lb) **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer • UL 94V-0 • Black • Contacts: Copper Alloy • Plating Tail: Tin • Plating: Gold • Temperature Range: -25°C ~ 85°C **Environment:** • Lead-free Process Capability: Reflow Capable (SMT only) • Process Temperature (max.): 260°C

miniSD Memory Card Connector, Reverse Mount Type: Mounting Specifications: • Surface Mount; Reverse • PCB Retention: Solder Tab - Surface Mount • Circuits - PCB: 11 • PCB Pitch: 1.30mm (.051 inch) **Electrical Specifications:** • Current (max.): 0.5A • Voltage (max.): 10V • Withstanding Voltage: 500VAC • Contact Resistance: 40mΩ max. • Insulation Resistance: 1000MΩ min. • Contact Retention Force-min. (per circuit): 0.98N (0.22lb) **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer, Glass-filled • UL 94V-0 • Black • Contacts: Copper Alloy • Plating Tail: Gold • Plating: Gold • Temperature Range: -25°C ~ 90°C **Environment:** • Lead-free Process Capability: Wave Capable (TH only)

SD Memory Card Connector, Standard Mount Type: Mounting Specifications: • Surface Mount; Top • PCB Retention: Solder Tab - Surface Mount • Circuits - PCB: 9 • PCB Pitch: 2.50mm (.098 inch) **Electrical Specifications:** • Current (max.): 0.5A • Voltage (max.): 250VDC • Withstanding Voltage: 500VAC • Contact Resistance: 100mΩ max. • Insulation Resistance: 100MΩ min. • Normal Force-min. (per circuit): 0.20N (0.04lb) **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer • UL 94V-0 • Black • Contacts: Copper Alloy • Plating Tail: Tin • Plating: Gold Selective • Temperature Range: -25°C ~ 85°C **Environment:** • Lead-free Process Capability: Reflow Capable (SMT only) • Process Temperature (max.): 240°C

SDIO Memory Card Connector, Reverse Mount Type: Mounting Specifications: • Surface Mount; Bottom • PCB Retention: Solder Tab - Surface Mount • Circuits - PCB: 9 • PCB Pitch: 2.50mm (.098 inch) **Electrical Specifications:** • Current (max.): 0.5A • Voltage (max.): 100V • Withstanding Voltage: 500VAC • Contact Resistance: 100mΩ max. • Insulation Resistance: 100MΩ min. • Normal Force-min. (per circuit): 0.20N (0.04lb) **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer • UL 94V-0 • Black • Contacts: Phosphor Bronze • Plating Tail: Tin • Plating: Gold Selective • Temperature Range: -25°C ~ 90°C

3 in 1 Memory Combo Connector, with SD/MS/MMC Standard Mount Type: Mounting Specifications: • Surface Mount; Top • PCB Retention: Solder Tab - Surface Mount • Circuits - PCB: 42 • PCB Thickness: 1.0mm (.04 inch) **Electrical Specifications:** • Current (max.): 0.5A • Voltage (max.): 5V • Withstanding Voltage: 250VAC, 500VAC • Contact Resistance: 100mΩ max. • Insulation Resistance: 100MΩ min., 1000MΩ min. **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer, Glass-filled • UL 94V-0 • Black • Contacts: Phosphor Bronze • Plating Tail: Tin • Plating: Gold Selective • Plating Contact: 0.2µm Gold • Durability (mating cycles) min.: 10,000 cycles • Under Plating: Nickel • Temperature Range: -25°C ~ 85°C **Environment:** • Lead-free Process Capability: Reflow Capable (SMT only) • Process Temperature (max.): 250°C

miniSD Card Adaptor: Specifications: • Use with SD port and miniSD card • Pitch/ Center Spacing: 2.50mm (.098 inch) • Circuits/ Positions: 9 • Current (max.): 0.5A • Color: Black • Plating: Gold • Plating Contact: Gold • Temperature Range: -25°C ~ 85°C

SD Memory Card Connector, Reverse Mount Type: Mounting Specifications: • Surface Mount; Reverse PCB Retention: Solder Tab - Surface Mount • PCB Pitch: 2.50mm (.098 inch) **Electrical Specifications:** • Current (max.): 0.5A • Voltage (max.): 100VAC • Withstanding Voltage: 500VAC • Contact Resistance: 80mΩ max. • Insulation Resistance: 1000MΩ min. **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer • UL 94V-0 • Black • Contacts: Copper Alloy • Plating: Gold (Au) Selective • Durability (mating cycles) min.: 10,000 cycles • Temperature Range: -25°C ~ 90°C

Dim. in mm

Fig. 1 — miniSD Memory Card Connector, Normal Mount Type

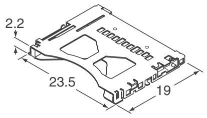

Fig. 2 — miniSD Memory Card Connector, Reverse Mount Type

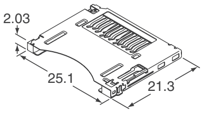

Fig. 3 — SD Memory Card Connector, Standard Mount Type

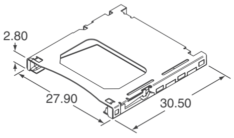

Fig. 4 — SDIO Memory Card Connector, Reverse Mount Type

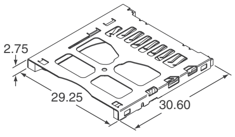

Fig. 5 — 3 in 1 Memory Combo Connector, with SD/MS, MMC Standard Mount Type

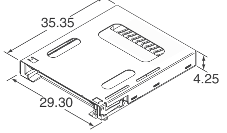

Fig. 6 — miniSD Card Adapter

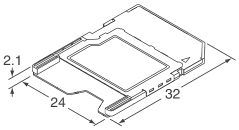

Fig. 7 — SD Memory Card Connector, Reverse Mount Type

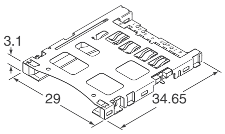

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Molex Part No.
1	WM23957CT-ND	5.20	4.01	3.21	WM23957TR-ND	500	1087.87	500972-1107
2	WM23958CT-ND	5.37	4.14	3.31	WM23958TR-ND	700	1620.53	48050-0001
3	WM23961CT-ND	6.35	4.89	3.91	WM23961TR-ND	400	1166.78	67600-8002
4	WM19113CT-ND	6.80	5.24	4.19	WM19113TR-ND	600	1757.40	67913-8008
5	WM23964CT-ND	8.33	6.41	5.13	WM23964TR-ND	250	896.68	48000-2001
6	WM23959-ND‡	13.05	10.04	8.03	—	—	—	501471-0900
7	WM23960CT-ND	12.64	9.73	7.78	—	—	—	54768-0977

‡ Tray

TransFlash Connectors

Ultra small size for space savings. Metal shielding with shell tabs provides ESD protection and grounding support. Wide open area on shells accommodates pick-and-place. Solder tails on inside of design provide space savings. **Features:** • Current: 0.5A maximum • **Withstanding Voltage:** 500VAC • **Insulation Resistance:** 1000MΩ minimum • **Temperature Range:** -25°C ~ 85°C

Fig. 1

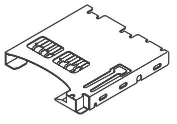

Fig. 2

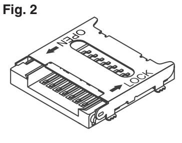

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	T & R Pricing 1,400	Molex Part No.
1	WM19114CT-ND	4.95	3.81	3.05	WM19114TR-ND	2131.00/M	500873-0806
2	WM19081CT-ND	4.61	3.55	2.84	WM19081TR-ND	1928.00/M	500901-0801

Compact Flash Card Connectors

Dim. in Inches (mm)

Fig. 1

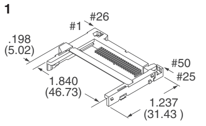

Fig. 2

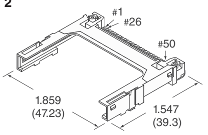

Fig. 3

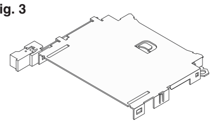

Fig. 4

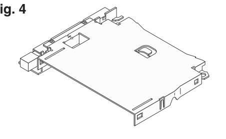

Fig. 5 ***NEW!***

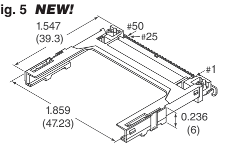

Fig. 6

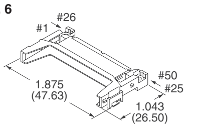

Fig. 7

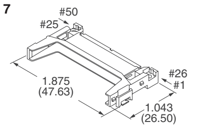

Fig. 8

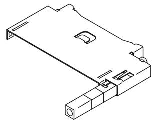

Fig. 9

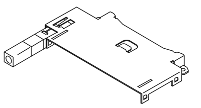

Fig. 10 ***NEW!***

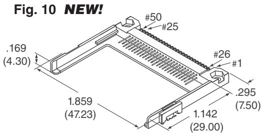

Card Headers

Features and Benefits: • Size 50 circuits • Dual-row 1.27mm (.050”) pitch at card interface and 0.635mm (.025”) pitch in-line SMT tails • High temperature housing suitable for reflow soldering • In-line SMT tails protect against damage during assembly

Electrical Specifications: • Voltage: 100V • Current: 0.5A • Contact Resistance: 40mΩ maximum • Dielectric Withstanding Voltage: 500VAC/1 minute • Insulation Resistance: 1000MΩ minimum

Physical Specifications: • Housing: Glass-filled LCP, UL94V-0 • Contact: Phosphor bronze • Plating: Gold over palladium nickel in contact area; tin in solder tail area, nickel underplate overall • Solder Tab: Phosphor bronze, tin over copper plating • Temperature: -20°C ~ 90°C

Card Ejectors

Features and Benefits: • Low-profile modular design snaps easily onto header • Lever design provides for smooth card extraction

Physical Specifications: • Metal Shell and Lever: Stainless steel • Top button: Glass-filled PBT, UL 94V-0

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
	For Type I and Type II Cards and Headers — RoHS Compliant					
1	Header, Right Angle, SMT, 5.85mm Low Profile Height	WM18740-ND	18.79	17.22	15.66	55244-5029
2	Top Mount Header, Right Angle, SMT, 1.65mm Standoff Height	WM18766-ND	10.26	9.41	8.55	55358-5029
3	Ejector, Left Side Flip Button (for Top or Bottom Mount Headers)	WM18767-ND	5.88	5.40	4.91	55356-0011
3	Ejector, Right Side Button (for Bottom Mount Headers)	WM18949-ND ***NEW!***	17.84	16.36	14.87	55365-0011
4	Ejector, Left Side Button (for Top Mount Headers)	WM18768-ND	8.85	8.12	7.38	55364-0011
5	Header, Right Angle, SMT, Bottom Mount	WM18948-ND ***NEW!***	13.86	12.71	11.55	55359-5029
10	Header, Right Angle, SMT, Low Profile Height, Top Mount	WM18947-ND ***NEW!***	7.76	7.12	6.47	67155-0002
	For Type I Cards and Headers					
6	Top Mount Header, Right Angle, SMT, 1.64mm Standoff Height	WM18587-ND◆	9.24	8.47	7.70	53856-5070
7	Bottom Mount Header, Right Angle, SMT, 1.64mm Standoff Height	WM18743-ND◆	9.24	8.47	7.70	53927-5019
8	Ejector, Right Side Flip Button (for Top or Bottom Mount Headers)	WM18507-ND◆	6.37	5.84	5.31	55021-0001
9	Ejector, Left Side Button (for Top or Bottom Mount Headers)	WM18508-ND	6.37	5.84	5.31	55022-0001
10	Header, Right Angle, SMT, Bottom Mount	WM18946-ND◆ ***NEW!***	8.69	7.97	5.31	67155-0001

◆ ***RoHS Compliant***

PC Card Headers

Features: • Conform to PCMCIA and CardBus standards • Suitable for type I, II, III 3.3V, and 5V Standard and CardBus PC Cards • CardBus PC Cards can meet high signal transmission requiring bandwidth (32 bits) and clock rate (33MHz)
Applications: • Notebooks, portable PCs, industrial PCs, network PCs • Set-top boxes, digital TV, home entertainment devices • Telecom, datacom equipment (switches, routers, remote access servers) • Machine control systems • Test and measurement devices, medical instrumentation

RoHS COMPLIANT

Dimensions in inches (mm)

Fig. 1

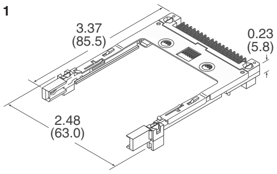

Fig. 2

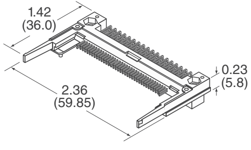

Fig. 3

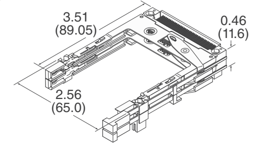

Fig. 4

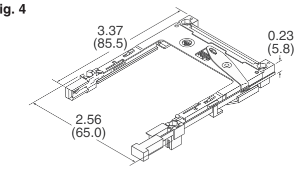

Fig. 5

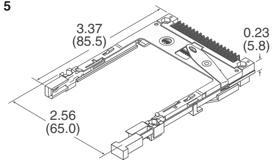

Fig. 6

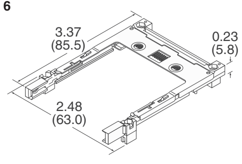

Fig. 7

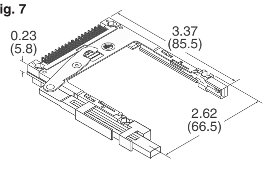

Fig. 8

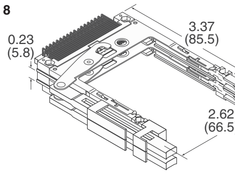

Fig. 9

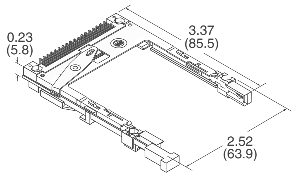

Fig. 10

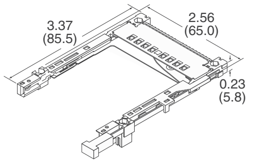

Fig. 11

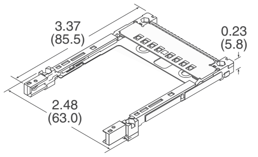

Fig.	Description	No. of Position	Voltage	Standoff Height Inches (mm)	Digi-Key Part No.	Price Each			FCI Part No.
						1	25	100	
PCMCIA									
1	Single Deck, Non-Ejector Header and Mechanism Assembly	68	3.3	0.16 (4.00)	609-1013-ND	11.85	6.44	5.76	84648-040HLF
	Single Deck, Non-Ejector Header and Mechanism Assembly	68	5.0	0.16 (4.00)	609-1023-ND	4.01	2.84	2.51	92789-040HLF
2	Right Angle Single Deck, Ejector Header Assembly	68	5.0	0.16 (4.00)	609-1014-ND	3.43	2.11	1.83	92140-010LF
	Right Angle Single Deck, Ejector Header Assembly	68	5.0	0.00 (0.00)	609-1020-ND	5.26	3.29	3.01	92140-000LF
3	Dual Deck, Ejector Header and Mechanism Assembly	68	3.3	0.20 (5.00)	609-1016-ND	11.51	8.17	7.51	61124-250CALF
4	Single Deck, Ejector Header and Mechanism Assembly	68	3.3	0.20 (5.00)	609-1017-ND	6.59	4.39	3.94	61125-050CALF
	Single Deck, Ejector Header and Mechanism Assembly	68	5.0	0.20 (5.00)	609-1024-ND	6.86	4.57	4.10	95547-050CALF
5	Single Deck, Ejector Header and Mechanism Assembly	68	3.3	0.20 (5.00)	609-1018-ND	8.70	5.92	5.33	61126-050CALF
6	Single Deck, Ejector Header and Mechanism Assembly	68	5.0	0.20 (5.00)	609-1019-ND	9.30	6.59	5.82	88640-150LF
7	Single Deck, Ejector Header and Mechanism Assembly	68	5.0	0.08 (2.00)	609-1021-ND	8.98	6.36	5.61	92193-120CALF
8	Dual Deck, Ejector Header and Mechanism Assembly	68	5.0	0.08 (2.00)	609-1022-ND	12.01	8.51	7.83	92194-320CALF
9	Single Deck, Ejector Header and Mechanism Assembly	68	5.0	0.08 (2.00)	609-1025-ND	6.23	4.15	3.72	95620-120CALF
CardBus									
10	Single Deck, Ejector Header Assembly	68	3.3	0.20 (5.00)	609-1026-ND	7.30	4.86	4.36	71299-050CALF
11	Single Deck, Non-Ejector Header Assembly	68	3.3	0.09 (2.20)	609-1027-ND	16.52	11.44	10.12	72305-020LF

Tyco Electronics AMP

Authorized Distributor

Small Form-Factor Pluggable (SFP/SFP+) System

Digi-Reel® RoHS COMPLIANT

SFP Series: Description: The SFP design supports hot swap of various types of fiber optic and copper based transceivers into host equipment. This allows the OEM the flexibility to interchange between different protocols such as 1000BASE-SX, 1000BASE-CX or 1000BASE-LX **Application:** • Fiber Channel • Fast/Gigabit Ethernet • ATM/SONET/SDH • InfiniBand (IB) • FDDI **Features:** • Hot Swappable • Three stage sequencing - GND, VDD, Signal • Connector supports data rates beyond 5 Gbps • IEEE 802.3Z (Gigabit Ethernet), INCITS T11 (FC) • Chassis grounds for pass through EMI protection to 12.5 Gbps • Copper and Fiber Optic Tranceiver

SFP+ Series: Description: SFP+ extends the use of the Small Form-Factor Pluggable (SFP) interconnect up to 10Gb/s. This system meets the performance requirements of SFF (Small Form-Factor) specification SFF-8431 and supports 8G Fibre Channel and 10G Ethernet applications. **Applications:** • Storage • Servers • Networking • Switches • Routers • Hubs • Network Interface Cards (NICs) **Features:** • Both EMI spring and gasket options for cages provide excellent shielding • All cage configurations are offered with lightpipes for LED applications • Heatsink optional for single port cages • Cages are available for PCI card applications (one degree mounting angle) • Cages accommodate belly-to-belly mounting

Fig. 1

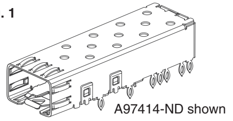

A97414-ND shown

Fig. 2

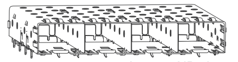

A97418-ND shown

Fig. 3

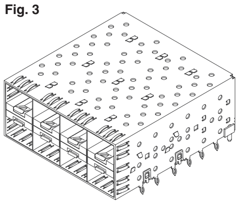

A97424-ND shown

Fig.	Description	Digi-Key Part No.	Price Each			AMP Part No.
			1	25	100	
SFP Series						
—	Connector SMT 15Au	A97430CT-ND§	2.68	2.43	1.72	1367073-1
	Connector SMT 15Au	A97430TR-ND▲	727.20/480			1367073-1
	Connector SMT 30Au	A97431CT-ND§	4.66	4.23	3.00	1367073-2
	Connector SMT 30Au	A97431TR-ND▲	1267.20/480			1367073-2
	Cage Lower PCB	A97412CT-ND§	4.43	4.01	2.84	6367034-1
	Cage Lower PCB	A97412TR-ND▲	601.20/240			6367034-1
	Cage Upper PCB	A97413-ND	4.43	4.01	2.84	6367035-1
1	Cage Single (Press-Fit)	A97414-ND	5.75	5.21	3.69	1489779-1
	Cage Single (Press-Fit)	A97415-ND	5.46	4.95	3.51	1489669-1
	Cage Single (Press-Fit)	A97416-ND†	10.15	9.20	6.52	1367629-1
2	Cage 1 x 2 (Press-Fit)	A97417-ND	8.03	7.28	5.16	1761014-1
	Cage 1 x 4 (Press-Fit)	A97418-ND	16.11	14.60	10.34	1658744-1
	Cage 1 x 6 (Press-Fit)	A97419-ND	24.12	21.84	15.47	1761015-1
	Cage 1 x 2 (Press-Fit)	A97420-ND†	13.01	11.79	8.35	1761007-1
	Cage 1 x 4 (Press-Fit)	A97421-ND†	26.08	23.62	16.73	1761008-1
	Cage 1 x 6 (Press-Fit)	A97422-ND†	39.09	35.40	25.08	1658939-1
3	Cage 2 x 1 (Press-Fit)	A97423-ND	17.17	15.56	11.02	1658391-1
	Cage 2 x 4 (Press-Fit)	A97424-ND	47.17	42.72	30.26	1658390-1
	Cage 2 x 6 (Press-Fit)	A97425-ND	137.24	124.30	88.05	1761327-1
	Cage 2 x 1 (Press-Fit)	A97426-ND†	17.17	15.56	11.02	1658628-1
	Cage 2 x 4 (Press-Fit)	A97427-ND†	47.14	42.70	30.25	1658629-1
	Cage 2 x 6 (Press-Fit)	A97428-ND†	76.88	69.63	49.32	1658894-1
	Cage 2 x 4 (Press-Fit)	A97429-ND†	58.83	53.28	37.74	1658758-1

Fig.	Description	Digi-Key Part No.	Price Each			AMP Part No.
			1	25	100	
—	Dust Cover SFP	A97432-ND	.84	.76	.61	1367147-1
NEW! SFP+ Series NEW!						
—	Connector SMT 15Au	A97944CT-ND§	3.34	3.03	2.15	1888247-2
	Connector SMT 15Au	A97944TR-ND▲	907.20/480			1888247-2
	Connector SMT 30Au	A97943CT-ND§	4.96	4.49	3.18	1888247-1
	Connector SMT 30Au	A97943TR-ND▲	1346.40/480			1888247-1
1	Cage Single (Wave Solder)	A97932-ND	6.47	5.86	4.15	2007194-1
	Cage Single (Press-Fit)	A97933-ND	6.47	5.86	4.15	2007215-1
	Cage Single (Press-Fit)	A97934-ND	6.47	5.86	4.15	2007198-1
	Cage Single (Press-Fit)	A97935-ND†	11.61	10.52	7.45	2007254-1
	Cage Single (Wave Solder)	A97936-ND‡	31.14	28.20	19.98	2007193-1
2	Cage 1 x 2 (Press-Fit), Gasket	A97926-ND	10.76	9.75	6.91	2007181-1
	Cage 1 x 4 (Press-Fit), Gasket	A97928-ND	19.21	17.40	12.33	2007135-1
	Cage 1 x 6 (Press-Fit), Gasket	A97930-ND	28.83	26.12	18.50	2007170-1
	Cage 1 x 2 (Press-Fit), Spring	A97937-ND	9.12	8.26	5.85	2007263-1
	Cage 1 x 4 (Press-Fit), Spring	A97939-ND	16.32	14.79	10.48	2007132-1
	Cage 1 x 6 (Press-Fit), Spring	A97941-ND	24.49	22.18	15.71	2007251-1
	Cage 1 x 2 (Press-Fit), Gasket	A97927-ND†	17.46	15.82	11.21	2007180-1
	Cage 1 x 4 (Press-Fit), Gasket	A97929-ND†	31.08	28.16	19.95	2007093-1
	Cage 1 x 6 (Press-Fit), Gasket	A97931-ND†	46.69	42.29	29.96	2007169-1
	Cage 1 x 2 (Press-Fit), Spring	A97938-ND†	14.81	13.42	9.51	2007262-1
	Cage 1 x 4 (Press-Fit), Spring	A97940-ND†	26.47	23.98	16.99	2007178-1
	Cage 1 x 6 (Press-Fit), Spring	A97942-ND†	39.70	35.96	25.47	2007250-1

† With Lightpipes ‡ With PCI Heatsink Clip § Cut Tape ▲ Tape and Reel

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Tyco Electronics AMP

Authorized Distributor

XFP Connectors and Heat Sinks

Dim. in mm

Features:
• Provides a range of options for EMI Containment and Thermal Dissipation that are controlled by customer requirements • Accommodate a wide range of applications (PCI Card to 16 ports on a Line Card) • Provides a robust system, similar to SFP, that will be accepted by the industry

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AMP Part No.
1	Connector 30 Position, 15AU	A97460CT-ND†	6.73	6.10	4.32	A97460TR-ND	480	1828.80	788862-1
	Connector 30 Position, 30AU	A97464CT-ND†	7.37	6.68	4.73	A97464TR-ND	480	2001.60	788862-2
	Connector 30 Position, 30AU	A97465CT-ND‡†	9.30	8.43	5.97	A97465TR-ND‡	480	2527.20	1367500-1
2	Cage Press-fit	A97461-ND	21.92	19.85	14.06	—	—	—	1489951-1
—	Heat Sink for SAN applications	A97463-ND	12.80	11.60	8.22	—	—	—	1542618-2
	Heat Sink for PCI applications	A97466-ND	12.80	11.60	8.22	—	—	—	1542656-2
	Heat Sink for Network applications	A97467-ND	12.80	11.60	8.22	—	—	—	1542706-2
	Heat Sink Clip	A97462-ND	1.91	1.73	1.23	—	—	—	1489948-2
	Dust Cap for XFP and QSFP	A97542-ND	4.74	4.30	3.05	—	—	—	1888810-2

‡ High Speed † Cut Tape

Fig. 1 — PT Connector

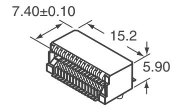

Part number A97460 shown

Fig. 2 — Cage Assembly

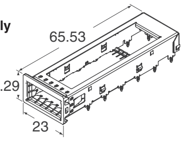

Technology to Inspire Innovation JAE

ExpressCard™ PX10 and PX11 Series

Features: • Conforms to Express Card Standard • Card Push-push eject structure for cards • Assigned compliance ID by PCMCIA **Specifications:** • Contact Resistance: 40mΩ maximum (55mΩ maximum after test) • Dielectric Withstanding Voltage: 500VAC r.m.s. for 1 minute • Operating Temperature: 0°C ~ 55°C • Rated Current: 0.75A per pin **Materials and Finishes**: • PCB Connection: Contact: Copper Alloy 0.1 µm minimum Gold plating over Nickel • Insulator: PPS

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	JAE Part No.
1	26	5.65	670-1096-1-ND	1.95	1.21	1.03	670-1096-2-ND	800	720.72	PX10-BSB16-R800
2	26	7.30	670-1097-ND	12.29	8.74	7.92	—	—	—	PX11-FS16NH

Fig. 1

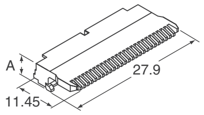

PCB Connector

Fig. 2

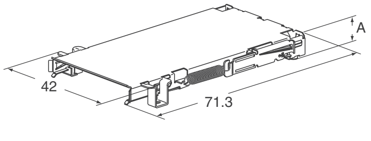

Cage Assembly

MM50 Series Memory Module

Features: 0.6mm narrow pitch • Right Angle **Specifications**: • Contact Resistance: 40mΩ maximum (initial) • Dielectric Withstanding Voltage: 500VAC r.m.s. for 1 minute • Operating Temperature: -55°C ~ 105°C • Rated Current: 0.3A/position • Insulation Resistance: 100MΩ **Materials and Finishes:** • Contact: Copper Alloy; Contact Portion: Gold plating over Nickel (0.1µ minimum); Terminal Portion: Gold Flash • Insulator: Glass-filled LCP (UL94V-0) • Hold down: Copper Alloy/ Tin-Lead Plating • Key: Stainless Steel

No. of Positions	Operating Voltage	Key Type	Mounted Height (mm)	Digi-Key Part No.	Price Each 1	25	100	JAE Part No.
200	1.8	Standard	5.2	670-1086-ND	4.11	2.40	2.20	MM50-200B2-1E
		Standard	5.2	670-1086-2-ND†		649.80/300		MM50-200B2-1-E300E
		Reverse	5.2	670-1087-ND	4.11	2.40	2.20	MM50-200B2-1RE
		Standard	5.2	670-1088-ND	5.46	3.19	2.92	MM50-200B2-2E
		Reverse	5.2	670-1089-ND	5.46	3.19	2.92	MM50-200B2-2RE
	2.5	Standard	4.0	670-1082-ND	7.08	4.02	3.78	MM50-200B1-B1
		Standard	5.2	670-1080-ND	4.32	2.52	2.31	MM50-200B1-1E
		Reverse	5.2	670-1081-ND	4.50	2.63	2.40	MM50-200B1-1RE
		Standard	6.5	670-1083-ND	4.50	2.63	2.40	MM50-200B1-E1E
		Reverse	6.5	670-1084-ND	4.50	2.63	2.40	MM50-200B1-E1RE

† Tape and Reel

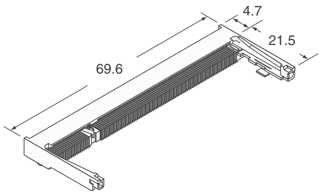

MicroSD™ Socket

Features: • Employs push-push structure for minimized mounting space • With half lock structure to prevent falling out of card

Specifications: • Rated Current: 0.5A maximum • Rated Voltage: 10V • Dielectric Withstanding Voltage: 500VAC r.m.s for 1 minute • Insulation Resistance: 1000MΩ minimum • Contact Resistance: 100mΩ maximum • Operating Temperature Range: -25C° ~ 85°C • Storage Temperature: -10C° ~ 60°C • Temperature Rise: 30C° rise maximum

Materials and Finishes: • Contact: Copper Alloy; Contact: Gold plating over Nickel • Terminal: Gold flash plating over Nickel

Fig. 1

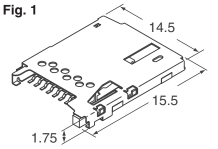

Fig. 2

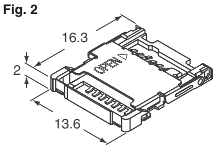

Fig. 3

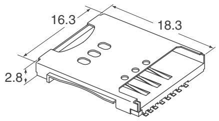

Fig.	No. of Positions	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	JAE Part No.
1	8	Low profile/SDA™ for MicroSD Memory Card	670-1355-1-ND	2.63	1.62	1.38	670-1355-2-ND	1,500	1133.86/M	ST2S008V1AR1500
2	8	SMT, MicroSD Card Connector	670-1528-1-ND	1.91	1.18	1.09	670-1528-2-ND	1,500	923.66/M	ST1W008S4AR1500
3	14	MicroSD and SIM Card Combo Connector	670-1522-1-ND	4.25	2.79	2.48	670-1522-2-ND	800	1794.52	ST5S014V4AR800

Plug In SIM Card Connectors

Specifications: • 6 Positions • Contact Resistance: 100mΩ maximum • Dielectric Withstanding Voltage: 500VAC r.m.s. for 1 minute • Operating Temperature: -40°C ~ 90°C • Rated Current: 10µA ~ 1A • Insulation Resistance: 1000MΩ minimum

Materials and Finishes:
SF7 Series: • Contact: Copper Alloy; Contact: Gold plating over Nickel; Terminal: Gold flash over Nickel • Housing: Glass filled LCP • Cover: Glass filled LCP

SF9 Series: Contact: Copper Alloy/ 0.5µ minimum Gold over Nickel • Housing: Glass filled LCP/None (UL94V-0) • Cover Frame: Stainless Steel/ Gold over Nickel (Terminal portion only) • Tray: PC/None (UL94V-0)

Fig. 1

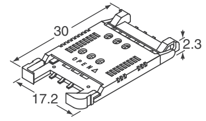

Fig. 2

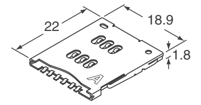

Fig. 3

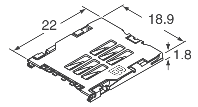

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	JAE Part No.
1	Hinge Type with Positioning Boss	670-1524-1-ND	2.70	1.67	1.53	670-1524-2-ND	1,000	1260.00	SF7W006S1AE1000
	Hinge Type	670-1525-1-ND	2.48	1.53	1.41	670-1525-2-ND	1,000	1155.00	SF7W006S1BE1000
2	Tray Type Standard	670-1519-1-ND	2.13	1.32	1.21	670-1519-2-ND	1,200	993.72/M	SF9W006S4AR1200
3	Tray Type Reverse	670-1520-1-ND	2.13	1.32	1.21	670-1520-2-ND	1,200	993.72/M	SF9W006S4BR1200
4	Tray for Standard Type	670-1518-ND	.77	.41	.34	—	—	—	SF9-STS1-A
5	Tray for Reverse Type	670-1517-ND	.77	.41	.34	—	—	—	SF9-STR1-B

Fig. 4

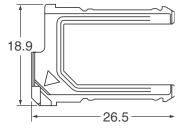

Fig. 5

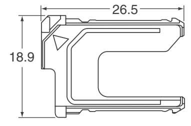

SD Card Connectors

Specifications: • Contact Resistance: 100mΩ maximum • Dielectric Withstanding Voltage: 500VAC r.m.s. for 1 minute • Operating Temperature: -25°C ~ 85°C • Rated Voltage: 3.3A • Rated Current: 0.5A maximum • Insulation Resistance: 100MΩ minimum after test

Materials and Finishes: • Contact: Copper Alloy/ Contact Portion: Gold plating over Nickel; Terminal Portion: Gold flash plating over Nickel • Housing: Glass filled LCP (UL94V-0) • Eject Bar: Glass filled Nylon (UL94V-0) • Cover and Cam Follower: Stainless Steel/None • Spring: Piano Wire/Zinc Galvanizing • Card Lock Portion: Stainless Steel/None • Hold Down: Copper Alloy/ Gold flash plating over Nickel

Fig. 1

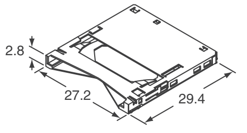

Fig. 2

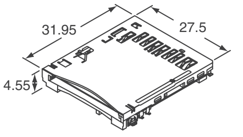

Fig.	No. of Positions	Mount Type	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel† Qty.	Pricing	JAE Part No.
1	9	Top	670-1521-1-ND	4.27	2.44	2.14	400	780.42	SG5S009V1A1R400
		Top	670-1526-ND	3.66	2.20	1.96	—	—	SG5S009V1A1
2	9	Bottom	670-1527-ND	4.38	2.63	2.34	—	—	SG5S009V1D2

† For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NEW! EyeMax® - Infiniband 4X Cable Assemblies

The EyeMax 4X cable assemblies provide high speed, serial copper links for industry-standard applications. The EyeMax link solution is designed to provide a continuous flow of serial data and eliminate data traffic congestion, which can occur among hardware devices that use a parallel bus structure. FCI's EyeMax cable assembly technology enables high-speed data transfers at >2.5Gb/s per link/channel for cable lengths up to 10 meters. In addition, the EyeMax technology offers <4% cross talk performance.

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	FCI Part No.
1	Latch Style, 1M Cable	609-3109-ND	95.81	77.54	74.77	10007290-N0100CULF
	Latch Style, 2M Cable	609-3110-ND	112.05	90.68	87.44	10007290-N0200CULF
	Latch Style, 3M Cable	609-3111-ND	126.06	103.81	98.25	10007290-N0300CULF
2	Thumb Screw Style, 1M Cable	609-3112-ND	100.60	81.42	78.51	10018960-N0100AULF
	Thumb Screw Style, 2M Cable	609-3113-ND	117.65	95.21	91.81	10018960-N0200AULF
	Thumb Screw Style, 3M Cable	609-3114-ND	132.36	109.01	103.17	10018960-N0300AULF

Fig. 1

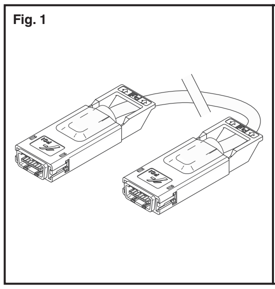

Fig. 2

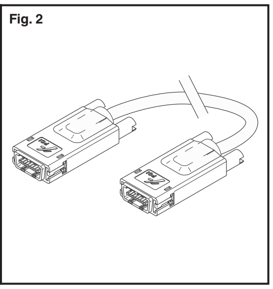

Z-Axis Pluggable Host Connectors

Fig. 1

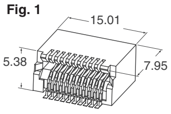

Fig. 2

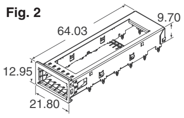

The 30-pin Z-Axis Pluggable host connector enables the use of emerging gigabit-speed hot-pluggable transceiver modules for horizontal front-panel access. It conforms to the host-board layout as defined in the 10 Gigabit Small Form Factor Pluggable (XFP) Multi-source Agreement (MSA) for 10-Gigabit data rates. The connector is typically used in conjunction with an XFP cage, flange and EMI gasket assembly, along with a heat sink and attachment clip, to attach an optical LC duplex or electrical XFP transceiver module to the host board. **Features:** • Card entry slot accepts 1.00mm (.039") thick integrated circuit board • Alignment posts provide stability for PCB placement • Coplanarity of solder terminals within 0.10mm (.004") for processing reliability • SMT receptacle provides option for placement on either side of PCB • Circuits: 30 • Pitch: 0.08mm (.031") • PCB Mounting: Surface Mount • UL File No.: E29179 • CSA File No.: 1310648 **Electrical:** • Voltage: 30V • Current: 0.5A **Physical:** • Housing: Black high temperature thermoplastic, UL94V-0 • Plating: Contact Area: Gold over Nickel; Solder Area: Tin over Nickel

Fig.	Plating	No. of Cir-cuits	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 480	Molex Part No.
Receptacles, Right Angle, SMT									
1	25µ" Au	30	WM1698CT-ND ***NEW!***	8.12	7.45	6.77	WM1698TR-ND ***NEW!***	2272.80	74441-0007
	30µ"Au		WM1642CT-ND	5.06	3.89	3.26	WM1642TR-ND	1456.32	74441-0017

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
XFP Cage for Small Frame Solder-Tail Post						
2	Without Heatsink or Clip	WM1638-ND	20.07	17.84	15.61	74736-0220
	With PCI Heatsink	WM1639-ND	37.71	33.53	29.34	74736-0221
	With SAN Heatsink	WM1640-ND	37.71	33.53	29.34	74736-0222
	With Tall Heatsink	WM1641-ND	37.71	33.53	29.34	74736-0223
—	Heat Sink Clip for XFP Cage	WM1699-ND ***NEW!***	1.94	1.73	1.51	74736-0230

InfiniBand™

Features: • Die cast frame with unitary latch posts and screw attach to PCB. Provides the best available strain relief of cable to socket and isolating cable loads from SMT tails. • Optional top mount screw attach of die cast frame to chassis. Adds additional strain relief. • Receptacle has an optional pair of additional screw attachments of frame to PCB. Further secures and isolates SMT tail from cable. **Applications:** • Telecommunication Equipment • Data Communication Equipment • Internet Working Equipment • Storage Area Network (SAN) Switches • Redundant Array of Inexpensive Disks (RAID) Devices • Servers • Computers • Storage Devices

Fig. 1

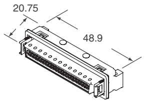

Fig. 2

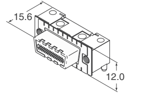

Fig. 3

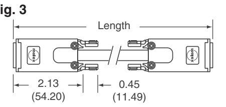

Fig.	No. of Lanes	Pitch	Cable Length Meters	Digi-Key Part No.	Price Each 1	25	50	100	Molex Part No.
1	12	0.5mm	—	WM7310-ND	28.20	25.85	23.50	21.15	91525-1210
2	4	0.5mm	—	WM1130-ND	15.74	14.43	13.12	11.81	91803-0415
			—	WM7318-ND	15.69	14.38	13.08	11.77	91804-0411
3	4	0.5mm	0.5	WM2067-ND	99.60	77.47	74.70	73.32	74506-3001
			1.0	WM2068-ND	105.38	81.97	79.04	77.58	74506-3002
			3.0	WM2069-ND	128.39	99.86	96.30	94.51	74506-3003

HSSDC2 Connectors and Assemblies

Features: Standard High Speed Serial Data 2 connector for InfiniBand™ (trademark of the InfiniBand (SM) trade association) and Fibre Channel SFF Copper meets electrical and mechanical requirements set forth by these protocols. Positive locking interface to prevent accidental disengagement, with keying options to mating plug connector for polarization and to eliminate mismating. Six chassis ground locations, six PCB ground/retention contacts, and four plug-to-receptacle grounding points to minimize EMI /RFI.

Fig. 1

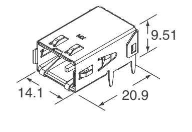

Fig. 2

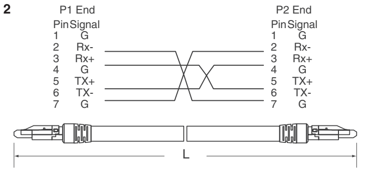

Fig.	Circuits	Dim. L Meters	Digi-Key Part No.	Price Each 1	10	25	100	Molex Part No.
Receptacle, Right Angle Shielded InfiniBand Keyed – RoHS Compliant								
1	7	—	WM5976-ND	15.94	13.29	10.63	9.30	74703-0007
Receptacle, Right Angle Shielded Fibre Channel Keyed – RoHS Compliant								
1	7	—	WM5977-ND	15.94	13.29	10.63	9.30	74703-0107
Copper Cable Assemblies, Plug-to-Plug, Unequalized, 3.0m								
2	7	1.0	WM2497-ND◆	33.95	29.71	25.47	22.92	73939-1002
		3.0	WM2498-ND	52.21	45.69	39.16	35.25	73939-1004

◆ ***RoHS Compliant***

Gigabit Interface Converter (GBIC)

Features and Benefits: • Meets Gigabit Interface Converter (GBIC) specifications • Rugged blind-mate guide ears with +/-2.00mm (0.079") mismating tolerance • Shielded for improved EMI protection with ESD ground contacts and optional shielding pegs • Staggered "hot-plug" first-mate, last-break contacts on 1.27mm (.050") pitch spacing **Electrical:** • Voltage: 30V • Current: 1.0A • Contact Resistance: 20mΩ • Dielectric Withstanding Voltage: 500V • Insulation Resistance: 1000MΩ **GBIC Guide Frame:** • Complies with the current GBIC standard (SFF-8053) • All metal construction provides the ultimate in EMI protection • Plated die cast body provides the option to solder directly to the PCB • EMI gasket provides 360 degrees of contact to the chassis • Compatible with the industry standard footprint • Mounting options for horizontal and vertical applications

Fig. 1

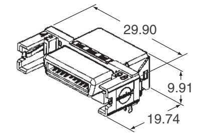

Fig. 2

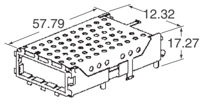

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	20 Pos., SCA-2 Recept. with Shield	WM1630-ND	13.37	12.26	11.15	74065-0005
2	Guide Frame for GBIC	WM1631-ND◆	15.65	14.35	13.04	73847-0001-TR12
—	Adapter without Serial ID, Cooper GBIC to DB9 Female	WM1632-ND	87.25	79.98	72.71	73086-0001-TR12

◆ ***RoHS Compliant***

Ultra+™ VHDCI Connectors and Assemblies

High Density Cable Interconnect, which has been defined as the next generation of physical SCSI (Small Computer Systems Interface) interfaces. VHDCI is sometimes incorrectly referred to as SCSI-4 and will replace SCSI-2 and 3 architecture in new applications. VHDCI offers a reduced size, increased robustness, improved electrical performance, and higher density versus the previous SCSI connectors. Note that VHDCI refers to the connector interface, SCSI is the communications protocol that the connector supports. Ultra+ meets SFF-8441, revision 9.0 and EIA PN-3652 standards to ensure intermateability with conforming products

Features: • Conforms to EIA/SFF specifications to ensure intermateability with conforming products • Shield design can dominate reflow solder ground connection • UL File No.: E29179 • CSA File No.: LR 19980-520 **Electrical**: • Voltage: 30V • Current: .5A • Contact Resistance: 50mΩ maximum • Dielectric Withstanding Voltage: 250V • Insulation Resistance: 500MΩ minimum **Mechanical**: • Mating Force: .54N (55g) • Unmating Force: .15N (15g) • Durability: 500 cycles maximum **Physical**: • Housing: Black high temperature thermoplastic, UL94V-0 • Contact: Phosphor Bronze • Plating: Gold Flash over palladium nickel • Operating Temperature: -55°C ~ 85°C

Fig. 1

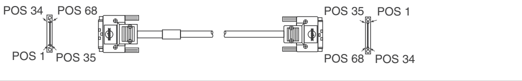

Fig. 2

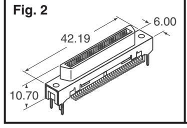

Fig. 3

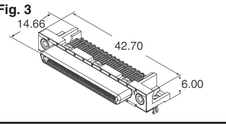

Fig. 4

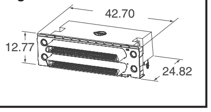

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	Ultra+ VHDCI to Ultra+ VHDCI Cable Assembly	WM7300-ND◆	63.60	55.65	42.93	79918-0080
2	Ultra+ VHDCI Receptacle	WM7304-ND	21.47	19.33	17.18	73776-0201
3	Ultra+ VHDCI Receptacle with Screw Locks	WM7302-ND	15.14	13.63	12.12	71430-0006
	Ultra+ VHDCI Receptacle with Enhanced Shield	WM7303-ND†	13.17	11.85	10.54	71430-0008
	Ultra+ VHDCI Receptacle with Enhanced Shield	WM7320-ND	13.17	11.85	10.54	71430-0004

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
3	Ultra+ VHDCI Receptacle	WM7321-ND	13.17	11.85	10.54	71430-0268
4	Ultra+ VHDCI Dual Stacked Receptacle	WM7305-ND‡	34.23	30.81	27.39	74337-0051
	Ultra+ VHDCI Dual Stacked Receptacle	WM7322-ND	31.80	28.63	25.45	74337-0015
—	VHDCI Female Jack Screw	WM7323-ND◆	1.24	1.10	.73	71433-0002

◆ ***RoHS Compliant*** † Includes Jack Screw ‡ Includes Cover

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Small Form Factor Pluggable Connectors and Frames

Features: The SFP system follows the function of the standard Gigabit Interface Converter (GBIC) products, with reduced size and increased data-transfer rates at and beyond two Gigabits per second (Gbps). A multi-source, industry-standard product line, our SFP products feature a common design interface for use with multiple data transfer protocols, including Fibre Channel, Gigabit Ethernet, InfiniBand and proprietary links
Cage Features: • All metal construction for EMI protection • Two point spring contacts for optimal EMI grounding • Chamfered edges on cover facilitate assembly • Design allows cages to be mounted on opposite sides of PCB for "belly-to-belly" applications
SMT Receptacle: • Alignment posts provide stability for placement on the PCB • Standoffs allow easy PCB cleaning after soldering • SMT design provides option for placement on both sides of PCB

Fig.	Circuits	Dim. L (mm)	Digi-Key Part No.	Price Each 1	10	100	T & R Pricing‡ 480	Molex Part No.
Cage Assembly with Connector								
1	40	—	WM1643-ND	47.70	42.40	37.10	—	75462-0001
2	80	—	WM1644-ND	69.86	62.10	54.34	—	75759-0001
Small Form-Factor Pluggable (SFP) Cage with Lightpipes — RoHS Compliant								
3	40	—	WM1695-ND	32.73	30.01	24.55	—	75310-0001
Small Form-Factor Pluggable (SFP) Cage — RoHS Compliant								
4	—	—	WM1634-ND	5.81	5.33	4.36	—	73927-0002-TR24
5	—	—	WM1646-ND	12.77	11.71	9.58	—	74722-0001
			WM1647-ND	25.65	23.52	19.24	—	74747-0001
			WM24031-ND	17.30	15.86	12.98	—	74728-0415
6	—	—	WM1697-ND ***NEW!***	6.53	5.99	4.90	—	74737-0002
			WM1694-ND	3.60	3.31	2.71	—	74737-0004
			WM1648-ND	3.60	3.31	2.71	—	74737-0009
			WM1663-ND	2.70	2.41	2.11	—	74737-0010
			WM1668-ND	2.70	2.41	2.11	—	74737-0005
			WM1669-ND	2.70	2.41	2.11	—	74737-0016
Cable Assemblies — RoHS Compliant								
7	20	1.0M	WM1660-ND	90.80	80.71	70.62	—	73929-0001
	Male to Male	1.0M	WM1666-ND	68.12	60.55	52.98	—	74742-0001
		3.0M	WM1667-ND	92.00	81.78	71.56	—	74742-0003
Adapters								
8	—	—	WM1662-ND◆	14.15	12.58	11.01	—	74720-0510
			WM1665-ND	207.33	184.30	161.26	—	74741-0005
Host Connectors for SFP Cages — RoHS Compliant								
—	20 pos., 25µ" Gold		WM1633CT-ND†	2.80	2.57	2.34	783.36	74441-0001
	20 pos., 30µ" Gold		WM1696CT-ND† ***NEW!***	4.75	3.86	2.97	997.44	74441-0010

◆ ***RoHS Compliant*** † Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

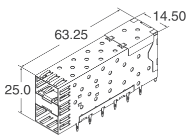

Fig. 2

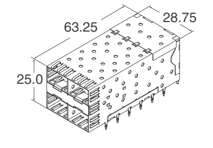

Fig. 3

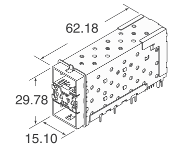

Fig. 4

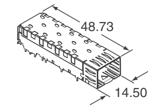

Fig. 5

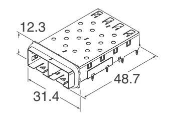

Fig. 6

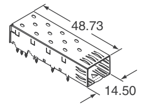

Fig. 7

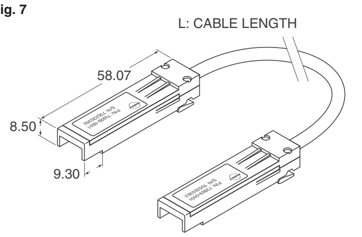

Fig. 8

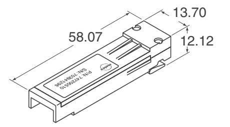

iPass™

Connector and Cable Assembly Solutions for Higher Density and Increased Speeds • The iPass Interconnect System offers both connectors and cable assemblies that enable flexible speed compatibility for applications ranging from 1.5 to 6.0Gpbs, with capability up to 10.0Gbps, and is an ideal interconnect solution for the growing server storage market
The iPass products support these industry standards for high-speed, multi-lane internal and external systems: • SAS (Serial Attached SCSI), also termed Mini-SAS • SATA (Serial ATA International Organization), also termed Mini-SATA • SFF (Small Form Factor), for Compact MultiLane/CML • External PCI Express (PCIe), also termed PCIe x4, x8, x16
External iPass Products: • SMT Host Connector (Series 75586): Provides placement options on both sides of the PC with a pitch of 0.8mm (0.31") • 4X External Cable Assemblies (Series 74547): High-performance paddle-card design with impedance matching helps reduce crosstalk and provide improved signal integrity. It also features a flexible low profile, latch pull mechanism
Internal Products: • Right Angle and Vertical Internal Connectors with Hood Kits (Series 75783): 0.80mm (0.031") pitch include hood kits for internal applications • Internal Cable Assemblies (Series 79576): Can support SAS Generation I (3.0Gbps) and II (6.0Gbps) bandwidths, as well as SATA Generation I (1.5Gbps) and II (3.0Gbps) bandwidths.

Dimensions in mm

Fig. 1

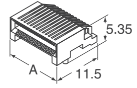

Fig. 2

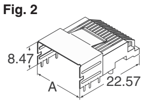

Fig. 3

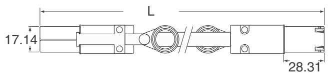

Fig. 4

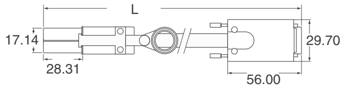

Fig. 5

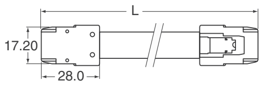

Fig. 6

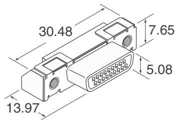

Fig. 7

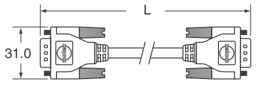

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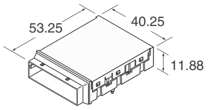

Fig. 9

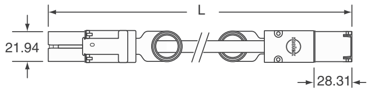

Fig. 10

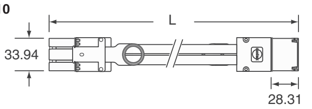

Fig. 11

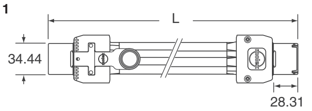

Fig. 12

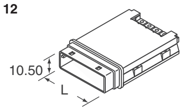

Fig. 13

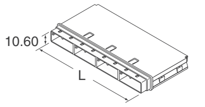

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel† Size	Tape & Reel† Pricing	Molex Part No.
0.8mm R/A Connector for External Application									
1	26	13.40	WM1116CT-ND	5.25	4.04	3.38	550	1731.40	75586-0009
	38	18.20	WM1117CT-ND	5.91	4.65	3.90	550	1956.90	75586-0011
	68	30.20	WM1115CT-ND	7.87	6.18	5.34	550	2677.95	75586-0007
0.8mm R/A Connector with Shell for Internal Application									
2	36	17.80	WM1118CT-ND	4.96	4.07	—	125	445.25	75783-0132
			WM1119CT-ND	5.34	4.33	—	125	421.38	75783-0140

† For Tape and Reel part number, change CT-ND to TR-ND.

Fig.	No. of Positions	Dim. L Meters	Type	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
Mini-SAS to Mini-SAS — Cable Assemblies								
3	26	1.0	Male to Male	WM1120-ND	45.11	35.71	35.09	74547-0301
		3.0		WM1121-ND	78.41	62.08	60.99	74547-0303
		2.0		WM1131-ND	54.59	43.23	42.47	74547-0302
		5.0		WM1132-ND	122.62	97.08	95.38	74547-0305
Mini-SAS to SFF-8470 — Cable Assemblies								
4	26	1.0	Male to Male	WM1122-ND	70.72	55.99	55.01	74547-2051
		3.0		WM1123-ND	97.87	77.48	76.12	74547-2053
		2.0		WM1133-ND	78.43	62.10	61.01	74547-2052
		5.0		WM1134-ND	131.55	104.15	102.32	74547-2055
iPass to iPass — Cable Assemblies								
5	36	0.5	Male to Male	WM1124-ND	15.14	13.88	12.62	79576-2112
		1.0		WM1126-ND	19.08	17.49	15.90	79576-2104

Fig.	No. of Pos.	Dim. L	Type	Digi-Key Part No.	Price Each 1	25	100	Molex Part No.
PCI Express to PCI Express — Cable Assemblies								
7	18	1.0M	x1 Male to Male	WM1144-ND	34.30	31.45	25.73	74576-0001
9	38	1.0M	x8 Male to Male	WM1146-ND	110.87	87.78	81.62	74546-0401
		3.0M		WM1147-ND	128.04	101.37	94.26	74546-0403
10	68	1.0M	x8 Male to Male	WM1148-ND	135.16	107.01	99.50	74546-0801
		3.0M		WM1149-ND	192.02	152.02	141.35	74546-0803
11	136	1.0M	x16 Male to Male	WM1150-ND	269.18	213.11	198.15	74546-1601
		3.0M		WM1151-ND	382.46	302.79	281.54	74546-1603
PCI Express R/A I/O Connectors								
6	18	—	x1 Receptical	WM1143CT-ND†	15.39	12.11	9.97	74150-0001
				WM1143TR-ND‡		3012.42/325		74150-0001
8	136	—	External Assembly	WM1145-ND§	50.88	46.64	42.40	75581-0002
EMI Guide Housing								
12	—	40mm	x8 port PCIe	WM1152-ND	10.64	9.76	7.99	74540-0100
		22.74mm	x4 port PCIe	WM1153-ND	8.10	7.43	6.08	74540-0400
		13.4mm	Single port SAS	WM1154-ND	8.23	7.54	6.17	74548-0211
13	—	41.76mm	Dual port SAS	WM1155-ND	13.06	11.98	9.80	74548-0208
		79.79mm	Quad port SAS	WM1156-ND	17.51	16.06	13.14	74548-0205

† Cut Tape ‡ Tape and Reel § With Cage

Amphenol® Commercial Products

Infinity High Speed Connectors

Amphenol's INFINITY (4X/12X) series of connectors facilitate data speeds up to 75Gbps total bandwidth, as required by InfiniBand™, Fibre Channel and Serial Attached SCSI Trade Associations, with superior EMI performance. INFINITY connectors are high-density, hot pluggable and meet SFF-8470 specifications. A variety of receptacles are available that will fit multiple connectors into a 1U form factor and PCI bracket. **Specifications:** • **Contact Plating:** Gold • **Operating Temperature:** -40°C ~ 85°C • **Housing:** Nylon UL94V-0 • Back Cover ordered separately

Fig. 1

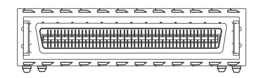

Fig. 2

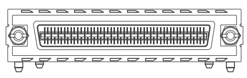

Fig. 3

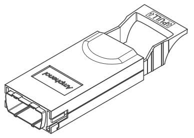

		Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel	
Fig	**Description**	**Part No.**	**1**	**10**	**50**	**Part No.**	**Qty.**	**Pricing**
	Lanyard Latch Receptacle - SMT							
1	4X, 2 Locating Posts, 4 Solder Posts, No Locking Plate, Top Mount Ear, 50µ" Gold	U65-B04-1270-TCT-ND	8.83	6.63	—	U65-B04-1270-TTR-ND	75	427.80
	4X, 2 Locating Posts, 4 Solder Posts, 2 Piece Locking Plate, Gold Flash Tails, 50µ" Gold	U65-B04-4060C-TCT-ND§◆	9.07	6.81	6.05	U65-B04-4060C-TTR-ND§◆	100	567.00
	4X, 2 Locating Posts, 2 Screw Mount Holes, No Locking Plate, 50µ" Gold	U65-E04-1210-TCT-ND	8.85	6.38	5.67	U65-E04-1210-TTR-ND	150	796.50
	4X, 2 Locating Posts, 4 Screw Mount Holes, No Locking Plate, 50µ" Gold	U65-E04-1260-TCT-ND	8.88	6.57	5.79	U65-E04-1260-TTR-ND	100	543.20
	4X, 2 Locating Posts, 4 Screw Mount Holes, No Locking Plate, Gold Flash Tails, 50µ" Gold	U65-E04-4260-TCT-ND◆	8.59	6.45	5.73	U65-E04-4260-TTR-ND◆	100	537.00
	4X, 2 Locating Posts, 4 Screw Mount Holes, 50µ" Gold	U65-E04-1460-TCT-ND	9.08	6.54	5.81	U65-E04-1460-TTR-ND	100	544.50
	4X, 2 Locating Posts, 4 Screw Mount Holes, Gold Flash Tails, 50µ" Gold	U65-E04-4460-TCT-ND◆	8.78	6.59	5.86	U65-E04-4460-TTR-ND◆	100	549.00
	4X Belly to Belly, 2 Locating Posts, 4 Screw Mount Holes, No Lock Plate 50µ" Gold	U65-F04-1360-TCT-ND†	11.16	8.37	7.44	U65-F04-1360-TTR-ND†	100	697.50
	4X Belly to Belly, 2 Locating Posts, 4 Screw Mount Holes, No Lock Plate, Gold Flash Tails, 50µ" Gold	U65-F04-4360-TCT-ND†◆	11.26	8.21	7.27	U65-F04-4360-TTR-ND†◆	100	703.50
	12X, 2 Locating Post, 2 Solder Posts, One Piece Locking Plate, 50µ" Gold	U65-B12-1210-ND‡	13.82	10.87	10.05	—	—	—
	12X, 2 Locating Posts, 4 Screw Mount Holes, No Locking Plate, Keying 4 and 5, 50µ" Gold	U65-E12-1264-TCT-ND	15.12	11.63	10.29	U65-E12-1264-TTR-ND	100	974.40
	12X, 2 Locating Posts, 4 Screw Mount Holes, No Locking Plate, Keying 4 and 5, Gold Flash Tails, 50µ" Gold	U65-E12-4264-TCT-ND◆	14.98	11.79	10.22	U65-E12-4264-TTR-ND◆	100	987.50
	12X, 2 Locating Posts, 4 Screw Mount Holes, Keying 4 and 5, 50µ" Gold	U65-E12-1464-TCT-ND	18.13	14.01	12.36	U65-E12-1464-TTR-ND	100	1194.80
	12X, 2 Locating Posts, 4 Screw Mount Holes, Gold Flash Tails, Keying 4 and 5, 50µ" Gold	U65-E12-4464-TCT-ND◆	15.14	11.91	10.32	U65-E12-4464-TTR-ND◆	100	997.60
	Screwlock Receptacle - SMT							
2	4X, 2 Locating Posts, 2 Solder Posts, With Standard Jack Screw, 50µ" Gold	U65-B04-1020-TCT-ND	9.18	6.61	5.88	U65-B04-1020-TTR-ND	150	825.75
	4X, 2 Locating Posts, 2 Solder Posts, With Standard Jack Screw, Gold Flash Tails, 50µ" Gold	U65-B04-4020-ND‡◆	8.93	6.70	6.14	—	—	—
	4X, 2 Locating Posts, 2 Solder Posts, With Standard Jack Screw, 30µ" Gold	U65-B04-2020-TCT-ND	8.90	6.41	5.70	U65-B04-2020-TTR-ND	150	801.00
	4X, 2 Locating Posts, 2 Solder Posts, With Standard Jack Screw, Gold Flash Tails, 30µ" Gold	U65-B04-5020-TCT-ND◆	8.95	6.45	5.73	U65-B04-5020-TTR-ND◆	150	805.50
	4X, 2 Locating Posts, 2 Solder Posts, With Self Lock Jack Screw, 30µ" Gold	U65-B04-2120-TCT-ND	9.43	7.08	6.29	U65-B04-2120-TTR-ND	150	854.85
	4X, 2 Locating Posts, 2 Solder Posts, No Jack Screw, 30U" Gold	U65-B04-2220-TCT-ND	8.30	6.15	5.42	U65-B04-2220-TTR-ND	150	747.00
	4X, 2 Locating Posts, 2 Solder Posts, No Jack Screw, Gold Flash Tails, 30µ" Gold	U65-B04-5220-TCT-ND◆	8.35	6.02	5.35	U65-B04-5220-TTR-ND◆	150	751.50
	4X, 2 Locating Posts, 2 Screw Mount Holes, With Standard Jack Screw, 50µ" Gold	U65-E04-1020-ND‡	9.43	6.79	6.23	—	—	—
	4X, 2 Locating Posts, 2 Screw Mount Holes, With Standard Jack Screw, Gold Flash Tails, 30µ" Gold	U65-E04-5020-TCT-ND◆	8.78	6.59	5.86	U65-E04-5020-TTR-ND◆	150	823.50
	4X, 2 Locating Posts, 2 Screw Mount Holes, With Self Lock Jack Screw, 50µ" Gold	U65-E04-1120-TCT-ND	9.10	6.83	6.07	U65-E04-1120-TTR-ND	150	824.40
	4X, 2 Locating Posts, 2 Screw Mount Holes, With Self Lock Jack Screw, Gold Flash Tails, 30µ" Gold	U65-E04-5120-TCT-ND◆	8.90	6.68	5.94	U65-E04-5120-TTR-ND◆	150	807.00
	Plug — RoHS Compliant							
3	4X Lanyard Shell with Insert and PCB, 30µ" Gold	UE66-L04-2130-ND‡	16.76	12.89	11.55	—	—	—
	4X Lanyard Shell with Insert and PCB, 50µ" Gold	UE66-N04-2130-ND‡	19.62	15.44	13.83	—	—	—
	4X Lanyard Shell, No Insert, No PCB	UE66-C04-2130-ND‡	9.68	6.97	6.78	—	—	—
	4X Screwlock with Insert and PCB, 30µ" Gold	UE66-L04-2120-ND‡	16.56	12.74	11.41	—	—	—
	Accessories							
—	Jackscrew M2.5 for Infinity	U65-404-40P-ND‡	.62	.36	.28	—	—	—
	Rear Cover for 4X Receptacle	U65-404-60-P-ND‡	.83	.47	.38	—	—	—
	Rear Cover for 12X Receptacle	U65-412-60-P-ND‡	.68	.39	.35	—	—	—

◆ ***RoHS Compliant*** § Back Cover Included † No EMI Gasket ‡ Bulk

SFP Connectors

Amphenol's SFP connector series is a 20 position connector and cage combo for mounting to a host PCB with a metal cage enclosing the connector. These connectors are similar to the Gigabit Interface Converter Interface (GBIC), but they are smaller in size and operate at much faster data transfer rates. Amphenol single port version is rated up to 4.125 Gbps data rates and stacked version up to 8 Gbps. Specifications: • **Opererating Temperature:** -40°C ~ 85°C • **Contacts:** Phosphor bronze

Fig. 1

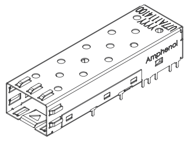

Fig. 2

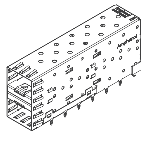

Fig. 3

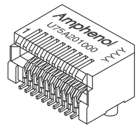

		Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel	
Fig	**Description**	**Part No.**	**1**	**10**	**50**	**Part No.**	**Qty.**	**Pricing**
—	Cage Dust Cover	U77-A1110-8000P-ND‡	.22	.12	.09	—	—	—
1	Single Port Cage, 1.8mm Solder Tails, Tin Plated	U77-A1114-100TCT-ND	2.02	1.37	1.14	U77-A1114-100TTR-ND	150	282.75
	Single Port Cage, 8 Press-Fit Pins, Nickel Plated	U77-A1118-200TCT-ND	2.02	1.37	1.14	U77-A1118-200TTR-ND	150	282.75
	Dual Port Cage, Rear Press-Fit Pins, Nickel Plated	U77-A2114-200TCT-ND	3.12	2.08	—	U77-A2114-200TTR-ND	85	150.28
	Quad Port Cage, Rear Press-Fit Pins, Nickel Plated	U77-A4114-2001-ND‡	4.47	3.08	2.62	—	—	—
	Six Port Cage, Rear Press-Fit Pins, Nickel Plated	U77-A6114-2001-ND‡	5.78	4.10	3.68	—	—	—
2	Stacked Conn 30µ" Gold and Cage Nickel Plated, 2x1 (2 ports)	U78-B1126-00121-ND‡	7.65	5.51	5.05	—	—	—
	Stacked Conn 30µ" Gold and Cage Nickel Plated, 2x4 (8 ports)	U78-B4126-00121-ND‡	22.68	18.49	17.58	—	—	—
3	Connector 20 Position 15µ Gold	UE75-A20-6000TCT-ND	1.69	1.09	.94	UE75-A20-6000TTR-ND	500	364.50
	Connector 20 Position 30µ Gold	UE75-A20-3000TCT-ND	1.86	1.20	1.06	UE75-A20-3000TTR-ND	500	405.50

‡ Bulk

Mini SAS Connectors

Amphenol's Compact MultiLane Connector is based on industry proven card edge style contacts. This connector system is designed to satisfy the needs for gigabit serial data transmission applications with signal speeds across the connector interface at speeds of up to 10 Gigabits/second on both rows of contacts. The cage is mounted separately to the body so that the stress imposed by insertion and removal of the cable plug does not affect the signal/body solder joints. Complies to SFF-8086, SFF-8087, and SFF-8088 **Specifications:** • **Cage:** Zinc diecast with nickel plating • **Contacts:** Phosphor bronze with 30µ gold plating.

FS1-S01-124E1

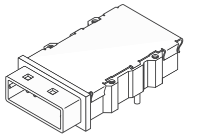

	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel	
Description	**Part No.**	**1**	**10**	**50**	**Part No.**	**Qty.**	**Pricing**
Receptacle, 26 Position, SMT	FS1-R26-2000CT-ND	4.09	2.82	2.47	FS1-R26-2000TR-ND	500	1022.50
Single Cage, 1 Degree with Key Option 2 and 4	FS1-S01-124E1-ND‡	3.70	2.58	2.31	—	—	—
Single Cage, 1 Degree with Key Option 4 and 6	FS1-S01-146E1-ND‡	3.70	2.58	2.31	—	—	—
Single Cage, 1 Degree with Key Option 4	FS1-S01-14E1-ND‡	3.70	2.58	2.31	—	—	—
Dual Cage, 1 Degree with Key Option 4	FS1-S02-14E1-ND‡	4.42	3.23	2.89	—	—	—
Single Cage, 0 Degree with Key Option 4	FS1-SF1-14E1-ND‡	3.70	2.58	2.31	—	—	—
Dual Cage, 0 Degree with Key Option 4	FS1-SF2-14E1-ND‡	4.42	3.23	2.89	—	—	—

‡ Bulk

Amphenol®
Amphenol-Tuchel Electronics GmbH

Smart Card Connectors

Dimensions in mm

PUSHMATIC® Standard Style Smart Card Connectors

Fig. 1

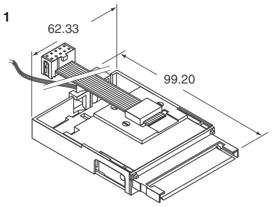

Fig. 2

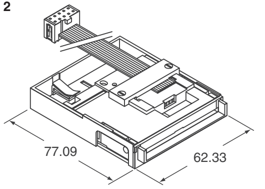

Fig. 3

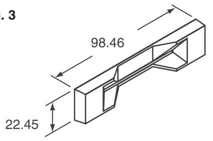

Note: Use only with Fig. 3
C702 10M008 5142
C702 10M008 5222

Applications: • Unattended Point of Sale systems • Vending equipment • Access control **Design Features:** • High numbers of card insertion cycles, due to the principle of landing contacts • Designed for harsh applications and environments • Modular system with several operating methods from manual handling to automatic card ejection • Bezel Accessory **Assembly Instructions:** Please make sure that interface cables are unrestricted and free to move after assembly.

Superflat Style Smart Card Connectors

Fig. 4

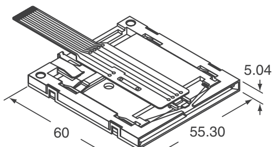

Applications: • Point of Sale systems • Mobile devices • Access control • Keyboards **Design Features:** • Miniature size ideally suited for mobile devices **Assembly Instructions:** Please make sure that flexprints remain free and unrestricted after assembly.

PCB Mount Wiping Contact Smart Card Connectors

Fig. 5

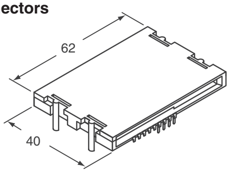

Applications: • Set top boxes • Toll road transponders • Parking meters • Utility metering systems **Design Features:** • Termination: dip solder pins • Special shape of wiping contacts minimize card scratching and wear • Smart Card Connector meets the requirements as specified in document ISO 7816 **Soldering Conditions:** • Wave soldering: 260°C; 10s maximum

PCB Mount Wiping Contact Smart Card Connectors

Fig. 6

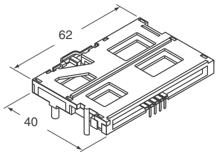

C702 10M008 2724
C702 10M008 2554 with 3mm Standoffs

These acceptors are low cost and provide direct sliding contact between the acceptor and the chip card. These acceptors have NC closed card present switches which open when the card is fully inserted.
Applications: • Set top boxes • Toll road transponders • Parking meters • Utility metering systems **Design Features:** • Termination: dip solder pins • Special shape of wiping contacts minimize card scratching and wear • Smart Card Connector meets the requirements as specified in document EMV 96 (Europay Mastercard Visa/Integrated Circuit Card Specification for Payment Systems) Includes 3mm stand-offs **Soldering Conditions:** • Wave soldering: 260°C; 10s maximum

PCB Mounting Contact Smart Card Connectors with 3mm Standoffs

Fig. 7

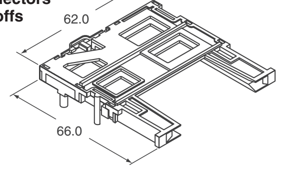

Applications: • TV/Satellite decoders • Point of Sale systems • Computer networks and energy meters • Also suitable for applications with permanently inserted cards under changing temperatures **Design Features:** • Meets the EMV Integrated Circuit Card Specification for Payment Systems (Europay Mastercard Visa) • Has a switch which indicates whether a card is in the reading position

Landing Card PCB Mount Smart Card Connectors

Fig. 8

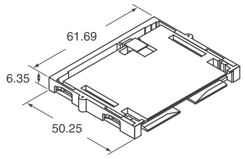

Design Features: • High number of mating cycles due to minimized wiping distance on card contacts • Contact self-cleaning effect • Short card insertion depth **Soldering Conditions:** • Wave soldering: 260°C; 10s maximum

SIMLOCK®

Fig. 9

(Shown with Align-Pins)

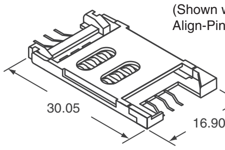

Applications: • Designed for mini SIM/SAM card **Design Features:** • Size: same footprint as SIM card • Reliable function in locked state during mobile use • Polarization notch does not allow incorrect card positioning • Suitable for automatic assembly processes (Pick & Place, Tape & Reel, and Reflow) **Soldering Conditions:** • Infrared reflow: 245°C; 10s maximum

SIMBLOCK®

Fig. 10

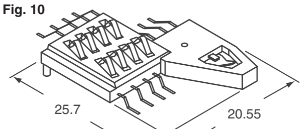

Fig. 11

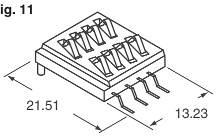

Applications: • Handsets • E-Purses **Design Features:** • Contacts chip cards according to ISO 7816 and Plug in SIM-Cards • Low height (2mm standard) • High co-planarity accuracy • SMT-Version with 6 contacts especially designed for GSM 11.11 interfaces **Soldering Conditions:** • Infrared reflow: 245°C; 10s maximum

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Amphenol Part No.
1	Pushmatic®, 12V, ISO	361-1001-ND	36.15	33.74	31.33	C702 10M008 7002
	Pushmatic®, 5V, ISO	361-1002-ND	36.15	33.74	31.33	C702 10M008 7012
2	Push Pull, ISO	361-1003-ND	23.06	21.52	19.99	C702 10M008 5142
	Push Pull, Afnor	361-1004-ND	22.61	21.10	19.60	C702 10M008 5222
3	Plastic Bezel, Black, Standard Style	361-1012-ND	19.96	17.47	15.47	C702 N11 141 E2
4	Superflat	361-1015-ND	11.22	9.82	8.70	C702 10M008 0014
5	ISO Wiping Contact, Snap-In	361-1016-ND	2.96	2.30	1.84	C702 10M008 2064
6	ISO Wiping Contact, EMV, Snap-In	361-1018-ND◆	2.50	1.93	1.54	C702 10M008 2724 A
	ISO Wiping Contact, EMV, with Standoffs	361-1019-ND◆	2.50	1.93	1.54	C702 10M008 2554

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	Amphenol Part No.
7	ISO Wiping Contact with Rails, with Standoffs	361-1017-ND	4.84	3.73	2.98	C702 10M008 2834
8	ISO Landing PCB	361-1013-ND	7.20	5.82	4.58	C702 10M008 1214
9	SIMLOCK® without Align-Pins, Black	361-1020-1-ND◆†	3.15	2.43	1.94	C707 10M006 5002
	SIMLOCK® without Align-Pins, Black	361-1020-2-ND◆‡		1086.40/800		C707 10M006 5002
	SIMLOCK® with Align-Pins, Black	361-1021-1-ND†	3.15	2.43	1.94	C707 10M006 0492
	SIMLOCK® with Align-Pins, Black	361-1021-2-ND‡		1086.40/800		C707 10M006 0492
10	SIMBLOCK® with NC Switch	361-1146-ND◆	4.76	3.69	2.96	C707 10M006 0652
11	SIMBLOCK® without Switch	361-1024-ND	4.32	3.33	2.66	C707 10M006 0522

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

C&K Smart Card Interconnect Devices

Dimensions in mm

Fig. 1
CCM02

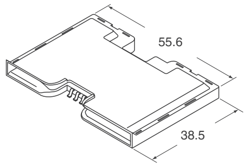

MK II: EMV Compatible. MK II connectors with landing contacts are dedicated for applications where the reader usage is high and the life span of the card is a key consideration. It has been redesigned to give an even higher performance in a compact, affordable package.
Features: 500,000 card insertion cycles.

Fig. 2
CCM04

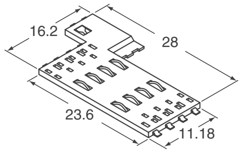

MK II: Connectors are without card guidance and used where space is at a premium and the card guidance can be built around the connector (rather than provided by the connector itself).

Fig. 3

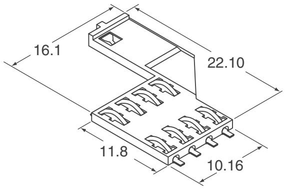

MK III: EMV Compatible. Designed to interface with either full or SIM/SAM smart cards and designed to minimize space usage on the PCB.

Fig.	Description	Digi-Key Part No.	Bulk Price Each 1	25	100	C&K Components Part No.
	CCM02					
1	MK II, 8 Contact SMT with Two Pegs	401-1711-ND	8.97	7.18	5.68	CCM02-2508LFT
	MK II, 8 Contact PCB with Four Pegs	401-1714-ND	8.97	7.18	5.68	CCM02-2511LFT

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	C&K Components Part No.
	CCM04					
2	MK II, 8 Contact SMT Low Profile 2.75mm	401-1728-1-ND	5.39	4.98	4.56	CCM04-1316LFT
	MK II, 8 Contact SMT Low Profile 2.75mm with Switch	401-1729-1-ND 401-1729-2-ND‡	5.13	4.74 6529.25/3,500	4.35	CCM04-1317LFT
3	MK III, 8 Contact SMT Low Profile 1.90mm with Switch	401-1731-1-ND	2.71	2.51	2.30	CCM04-4248LFS

‡ Tape and Reel

Tyco Electronics AMP

Authorized Distributor

Miniature Spring Sockets

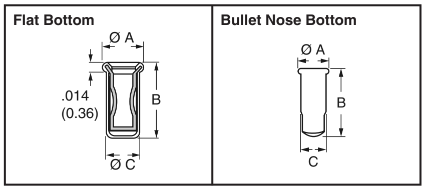

The Miniature Spring Socket System is composed of a series of individual sockets, each utilizing a permanently secured helical spring design to accept round, square or rectangular leads without socket orientation.

Features: • SMT and IRR processing compatibility • Five different hole size series .039 ~ .107" (0.99 ~ 2.72mm) available to accommodate a pin diameter range of .012 ~ .065" (0.30 ~ 1.65mm) and board thicknesses of .031 ~ .125" (0.79 ~ 3.18mm) • Low-Profile, above-board height of .022" (0.56mm) allows maximum board-to-board clearance • Small head diameter allow centerline spacing as close as .070" (1.78mm) • Inner helical spring assures maximum reliability **Material:** Spring**:** Beryllium Copper **Contact Sleeve:** Copper

Description	Pin Diameter Range Inch (mm)	Finish		Dimensions – Inch (mm)			Digi-Key Part No.	Price Each		AMP Part No.
		Spring	Sleeve	A	B	C		1	10	
Flat Bottom										
Closed Bottom	.013 ~ .021 (0.33 ~ 0.51)	30µ" Gold	Gold Flash	.059 (1.50)	.142 (3.61)	.038 (0.97)	A26251-ND◆	.48	.38	2-330808-8
	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Tin	.059 (1.50)	.142 (3.61)	.038 (0.97)	A32890-ND◆	.43	.35	6-5330808-5
	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Tin	.059 (1.50)	.178 (4.52)	.039 (0.99)	A32369-ND◆	.53	.43	2-5332095-4
	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Gold Flash	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26257-ND◆	.52	.42	2-332095-1
	.018 ~ .021 (0.46 ~ 0.53)	30µ" Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A32370-ND◆	.96	.77	2-5331272-3
	.014 ~ .026 (0.36 ~ 0.66)	30µ" Gold	Gold Flash	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24850-ND◆	.60	.49	50863-4
	.014 ~ .026 (0.36 ~ 0.66)	30µ" Gold	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A32371-ND◆	.44	.36	5050863-5
	.014 ~ .026 (0.36 ~ 0.66)	Tin	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A32372-ND◆	.36	.29	5050863-8
	.022 ~ .025 (0.56 ~ 0.64)	30µ" Gold	Gold Flash	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24856-ND◆	.48	.38	2-331272-6
	.022 ~ .025 (0.56 ~ 0.64)	30µ" Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A32373-ND◆	.41	.34	2-5331272-7
	.014 ~ .026 (0.36 ~ 0.66)	30µ" Gold	Gold Flash	.070 (1.78)	.178 (4.52)	.050 (1.27)	A24862-ND◆	.50	.40	50462-6
	.014 ~ .026 (0.36 ~ 0.66)	30µ" Gold	Tin	.070 (1.78)	.178 (4.52)	.050 (1.27)	A32374-ND◆	.51	.41	5050462-8
	.026 ~ .029 (0.66 ~ 0.74)	30µ" Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24864-ND◆	1.16	.94	1-331677-1
	.026 ~ .029 (0.66 ~ 0.74)	30µ" Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24865-ND	.43	.35	3-331677-8
	.026 ~ .029 (0.66 ~ 0.74)	30µ" Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A32375-ND◆	.45	.36	3-5331677-8
	.026 ~ .033 (0.66 ~ 0.84)	30µ" Gold	Gold Flash	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24866-ND◆	.98	.79	50864
	.026 ~ .033 (0.66 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A32376-ND◆	.45	.36	5050864-1
	.026 ~ .033 (0.66 ~ 0.84)	Tin	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A32377-ND◆	.36	.30	5050864-6
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24873-ND◆	.86	.69	1-331677-4
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24877-ND	.83	.67	1-331677-8
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A32891-ND◆	.86	.69	1-5331677-8
	.034 ~ .041 (0.86 ~ 1.04)	30µ" Gold	Gold Flash	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24880-ND◆	.95	.77	50865
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24886-ND◆	.87	.70	1-332070-1
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A32378-ND◆	.67	.54	2-5332070-3
	.037 ~ .040 (0.94 ~ 1.02)	Tin	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24893-ND	.54	.44	2-332070-2
	.042 ~ .049 (1.07 ~ 1.24)	30µ" Gold	Gold Flash	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24897-ND◆	1.63	1.31	50871-4
	.042 ~ .049 (1.07 ~ 1.24)	30µ" Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32379-ND◆	.50	.40	5050871-5
	.042 ~ .049 (1.07 ~ 1.24)	Tin	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32892-ND◆	.42	.34	5050871-8
	.050 ~ .057 (1.27 ~ 1.45)	30µ" Gold	Gold Flash	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24900-ND◆	1.16	.93	1-50871-3
	.056 ~ .065 (1.42 ~ 1.65)	30µ" Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32380-ND◆	.50	.40	2-5050871-3
Open Bottom	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Tin	.059 (1.50)	.142 (3.61)	.038 (0.97)	A32893-ND◆	.80	.65	5-5330808-6
	.014 ~ .026 (0.36 ~ 0.66)	30µ" Gold	Gold Flash	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24849-ND◆	.63	.51	50863
	.014 ~ .026 (0.36 ~ 0.66)	Tin	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24853-ND	.37	.30	50863-6
	.014 ~ .026 (0.36 ~ 0.66)	Tin	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A32381-ND◆	.39	.32	5050863-6
	.018 ~ .021 (0.46 ~ 0.53)	30µ" Gold	Gold Flash	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24859-ND◆	.59	.48	3-331272-8
	.014 ~ .026 (0.36 ~ 0.66)	30µ" Gold	Tin	.070 (1.78)	.178 (4.52)	.050 (1.27)	A32382-ND◆	.45	.37	5050462-2
	.026 ~ .033 (0.66 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A32383-ND◆	.47	.38	5050864-5
	.026 ~ .033 (0.66 ~ 0.84)	Tin	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24872-ND	.58	.46	50864-8
	.026 ~ .033 (0.66 ~ 0.84)	Tin	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A32384-ND◆	.60	.48	5050864-8
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A32385-ND◆	.46	.37	2-5331677-2
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24875-ND◆	.52	.42	2-331677-6
	.034 ~ .041 (0.86 ~ 1.04)	30µ" Gold	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A32386-ND◆	.51	.42	5050865-3
	.034 ~ .041 (0.86 ~ 1.04)	Tin	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A32894-ND◆	.80	.65	5050865-6
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24888-ND◆	.91	.74	1-332070-4
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24889-ND	.46	.37	2-332070-5
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A32387-ND◆	.47	.38	2-5332070-5
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A32388-ND◆	.46	.37	2-5332070-9
	.042 ~ .049 (1.07 ~ 1.24)	30µ" Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32389-ND◆	.53	.42	5050871-1
	.042 ~ .049 (1.07 ~ 1.24)	Tin	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32895-ND◆	1.17	.94	5050871-6
	.050 ~ .057 (1.27 ~ 1.45)	30µ" Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24902-ND	1.04	.84	1-50871-0
	.050 ~ .057 (1.27 ~ 1.45)	30µ" Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32390-ND◆	1.08	.87	1-5050871-0
	.056 ~ .065 (1.42 ~ 1.65)	30µ" Gold	Gold Flash	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24905-ND◆	1.25	1.01	1-50871-8
	.056 ~ .065 (1.42 ~ 1.65)	30µ" Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32391-ND◆	.53	.42	1-5050871-9
	.056 ~ .065 (1.42 ~ 1.65)	Tin	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32392-ND◆	.63	.51	2-5050871-4
Knockout Bottom	.013 ~ .021 (0.33 ~ 0.51)	30µ" Gold	Gold Flash	.059 (1.50)	.142 (3.61)	.038 (0.97)	A26252-ND◆	.59	.48	3-330808-8
	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Tin	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26256-ND	1.02	.82	1-332095-9
	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Tin	.059 (1.50)	.178 (4.52)	.039 (0.99)	A32393-ND◆	1.06	.85	1-5332095-9
	.013 ~ .020 (0.33 ~ 0.51)	30µ" Gold	Gold Flash	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26258-ND◆	.53	.43	2-332095-2
	.022 ~ .025 (0.56 ~ 0.64)	30µ" Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24858-ND	.49	.40	3-331272-5
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24876-ND◆	.62	.50	2-331677-9
	.030 ~ .033 (0.76 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24878-ND	.52	.42	3-331677-4
	.034 ~ .041 (0.86 ~ 1.04)	30µ" Gold	Gold Flash	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24881-ND◆	1.37	1.10	50865-2
	.034 ~ .041 (0.86 ~ 1.04)	30µ" Gold	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24882-ND	.48	.39	50865-1
	.034 ~ .041 (0.86 ~ 1.04)	30µ" Gold	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A32394-ND◆	.50	.40	5050865-1
	.034 ~ .041 (0.86 ~ 1.04)	Tin	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A32897-ND◆	.59	.48	5050865-7
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24887-ND◆	1.05	.85	1-332070-7
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24892-ND	.44	.36	3-332070-5
	.037 ~ .040 (0.94 ~ 1.02)	30µ" Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A32898-ND◆	.46	.37	3-5332070-5
Bullet Nose Bottom — RoHS Compliant										
Loose Piece	.012 ~ .021 (0.30 ~ 0.53)	30µ" Gold	Tin	.066 (1.67)	.184 (4.64)	.042 (1.07)	A32395-ND	.25	.21	5645946-2
	.015 ~ .021 (0.38 ~ 0.53)	30µ" Gold	Tin	.066 (1.67)	.158 (4.01)	.042 (1.07)	A32396-ND	.59	.47	5645945-2
	.015 ~ .021 (0.38 ~ 0.53)	Tin	Tin	.066 (1.67)	.158 (4.01)	.042 (1.07)	A32397-ND	.73	.59	5645945-1
	.037 ~ .041 (0.94 ~ 1.04)	30µ" Gold	Tin	.089 (2.26)	.260 (6.60)	.074 (1.88)	A32398-ND	.37	.30	5645500-1
	.042 ~ .049 (1.07 ~ 1.24)	Gold Flash	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A32399-ND	1.07	.86	5645980-2
	.042 ~ .049 (1.07 ~ 1.24)	Tin	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A32400-ND	.41	.33	5645980-1
Carrier Strip with Sealant	.028 ~ .033 (0.71 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.290 (7.37)	.061 (1.55)	A24879-ND	—	.30	1-645986-2
	.028 ~ .033 (0.71 ~ 0.84)	30µ" Gold	Tin	.080 (2.03)	.290 (7.37)	.061 (1.55)	A32899-ND	.31	.26	1-5645986-2
	.028 ~ .033 (0.71 ~ 0.84)	Tin	Tin	.080 (2.03)	.290 (7.37)	.061 (1.55)	A28507-ND	—	.71	1-645986-1
	.028 ~ .033 (0.71 ~ 0.84)	Tin	Tin	.080 (2.03)	.290 (7.37)	.061 (1.55)	A32900-ND	.76	.61	1-5645986-1
Carrier Strip without Sealant	.037 ~ .041 (0.94 ~ 1.04)	30µ" Gold	Tin	.089 (2.03)	.260 (7.37)	.074 (1.55)	A32901-ND	.44	.35	1-5645502-1
	.042 ~ .049 (1.07 ~ 1.24)	Gold Flash	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A29045-ND	—	.59	1-645979-2
	.042 ~ .049 (1.07 ~ 1.24)	Tin	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A29069-ND	—	.33	645979-1
	.042 ~ .049 (1.07 ~ 1.24)	Tin	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A32903-ND	.38	.31	5645979-1

◆ ***RoHS Compliant***

I.C. Sockets

Performance Characteristics:

Physical: Engaging force: 340 grams maximum (initial) • Separating force: 25 grams minimum

Electrical: • Rating: 250VAC • Contact resistance: 20mΩ maximum initial, 30mΩ maximum after test • Dielectric withstanding voltage: 1000 VRMS minimum • Insulation resistance: 10,000MΩ minimum (initial) • Capacitance: 0.5 picofarad maximum

Environmental: • Operating temperature: -55°C ~ 105°C (tin); -55°C ~ 125°C (gold) • Vibration: 15 G's, 10-2000-10 Hz with 100mA current • Shock: 100 G's sawtooth; 6 shocks

Material and Finish: • Housing: Glass-filled thermoplastic, 94V-0 rated (black)

Notes: • Closed bottom design: inhibits flux contamination and solder wicking • Overstress stop wall: prevents damage to socket contact from bent or twisted DIP leads and off-set insertion or extraction of DIP packages • Closed Frame Style (unless noted) • Large target area: makes it easy to insert DIP packages • Dual wiping contacts: make a gas-tight connection for high reliability • .175 (4.45) maximum seating plane above pc board • Stackable end-to-end and side-to-side • Designed to meet EiA RS-415, MIL-S-83734 and stringent computer specifications • Recognized under the Component Program of Underwriters Lab. Inc. File E28476 • Certified by Canadian Standards Association File No. LR 16455

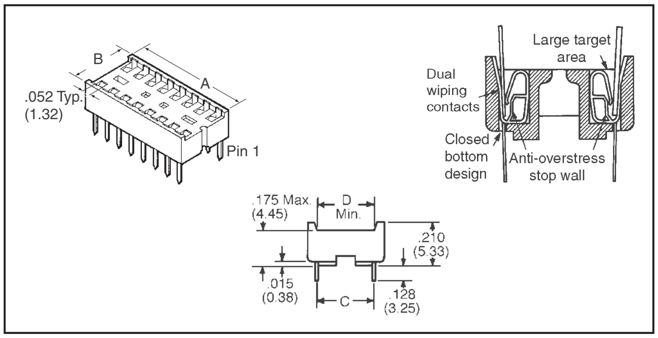

No. of Pins	Dimensions – Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Dual Leaf Dip Sockets								
Phosphor Bronze with 15µ" Gold Plating								
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9406-ND	.69	.56	2-641296-4
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32868- ND◆	.69	.56	1825093-1
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9408-ND	.57	.46	2-640463-4
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32361-ND◆	.84	.68	1825093-2
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9414-ND	1.08	.87	2-640357-4
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32869-ND◆	.96	.77	1825093-3
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9416-ND	1.20	.96	2-640358-4
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32870-ND◆	1.14	.92	1825093-4
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94116-ND†	1.38	1.11	2-641600-4
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A35060-ND◆†	1.38	1.11	1825094-4
18	.895 (22.73)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9418-ND	1.50	1.20	2-640359-4
18	.895 (22.73)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32871-ND◆	1.41	1.13	1825093-5
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9420-ND	1.59	1.28	2-640464-4
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32872-ND◆	1.47	1.18	1825093-6
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94120-ND†	1.68	1.35	2-641602-4
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32873-ND◆†	1.62	1.30	1825094-6
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9424-ND	2.88	2.31	2-640361-4
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A35061-ND◆	2.61	2.09	1825108-1
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94124-ND†	2.67	2.14	2-641932-4
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32874-ND◆†	1.86	1.49	1825094-7
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9428-ND	2.76	2.21	2-640362-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32875-ND◆	2.55	2.04	1825108-2
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94128-ND†	2.04	1.64	2-641605-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32876-ND◆†	2.49	2.00	1825109-2
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94132-ND†	3.00	2.40	2-644018-4
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A35063-ND◆†	2.04	1.64	1825276-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9440-ND	2.64	2.12	2-640379-4
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32877-ND◆	2.46	1.97	1825108-3
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94140-ND†	2.64	2.12	2-641606-4
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A35062-ND◆†	2.46	1.97	1825109-3
Beryllium Copper with 30µ" Gold Plating								
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24793-ND	.87	.70	2-641296-2
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32529-ND◆	.75	.60	1-1825093-1
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24794-ND	.45	.36	2-640463-2
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32878-ND◆	.42	.34	1-1825093-2
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24795-ND†	1.02	.82	2-641599-2
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32879-ND◆†	.96	.77	1-1825094-3
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24796-ND†	1.14	.92	2-641600-2
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32880-ND◆†	1.08	.87	1-1825094-4
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24797-ND†	2.76	2.21	2-641932-2
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32881-ND◆†	2.55	2.04	1-1825094-7
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24798-ND†	3.42	2.74	2-641604-2
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A35058-ND◆†	3.21	2.57	1-1825109-1
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24799-ND†	3.57	2.86	2-641605-2
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32882-ND◆†	2.46	1.97	1-1825109-2
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24800-ND†	3.90	3.12	2-644018-2
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32883-ND◆†	2.73	2.19	1-1825276-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24801-ND†	3.51	2.81	2-641606-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32884-ND◆†	3.30	2.64	1-1825109-3
Sockets with Retention Solder Tails								
Phosphor Bronze with 15µ" Gold Plating								
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24802-ND	.66	.53	2-641260-4
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32885-ND◆	.66	.53	1825373-2
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A35064-ND◆†	2.49	2.00	1825376-2
Phosphor Bronze with Tinned Plating — RoHS Compliant								
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24804-ND†	.75	.60	2-641615-3
Beryllium Copper with 30µ" Gold Plating								
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24805-ND†	3.57	2.86	2-641615-3
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A35059-ND◆	3.33	2.67	1-1825376-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24806-ND†	3.48	2.79	2-641616-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A32886-ND◆†	3.27	2.62	1-1825376-3
Beryllium Copper with Tinned Plating — RoHS Compliant								
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24807-ND	.33	.27	2-641260-1
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24808-ND†	.60	.48	2-641609-1
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24809-ND†	.66	.53	2-641610-1
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24810-ND†	.66	.53	2-641612-1
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24811-ND†	.87	.70	2-641933-1
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24812-ND†	.90	.72	2-382189-1

◆ ***RoHS Compliant*** † Open Frame Style

PLCC Sockets - Low Profile, Surface Mount

RoHS COMPLIANT

Features: • Low profile for high density PCB stacking • Pin 1 indicator • Allows easy PLCC removal
Specifications: • **Housing:** High temperature thermoplastic UL 94V-0 • **Current Rating:** 1A • **Durability:** 25 cycles

No. of Pos.	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	AMP Part No.
20	.565 (14.36)	.565 (14.36)	.264 (6.71)	A97621CT-ND	.92	.74	.59	500	213.81	3-822516-3
28	.665 (16.90)	.665 (16.90)	.364 (9.25)	A97622CT-ND	1.43	1.15	.91	500	333.76	3-822516-2
32	.665 (16.90)	.770 (19.57)	.364 (9.25)	A97623CT-ND	1.17	.94	.75	500	324.06	3-822516-7
44	.866 (22.00)	.866 (22.00)	.564 (14.33)	A97624CT-ND	1.41	1.13	.90	350	273.46	3-822516-1
52	1.013 (25.74)	1.013 (25.74)	.664 (16.87)	A97625CT-ND	1.65	1.32	1.05	350	269.60	3-822516-4
68	1.213 (30.82)	1.213 (30.82)	.864 (21.95)	A97626CT-ND	2.09	1.67	1.33	600	692.91	3-822516-5
84	1.413 (35.90)	1.413 (35.90)	1.064 (27.03)	A97627CT-ND	2.95	2.36	1.87	250	344.00	3-822516-6

† For Tape and Reel part number, change CT-ND to TR-ND.

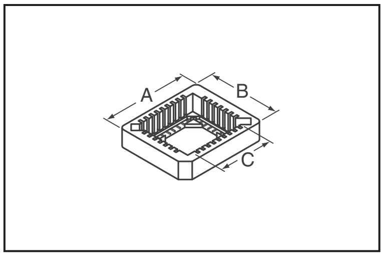

Test Sockets

Reusable Receptacles for Component Testing:

- Receptacles help prevent heat damage to pc boards and components during burn-in and bread-boarding evaluation
- Receptacles eliminate need for soldering components directly to the board
- Board components can be inserted and extracted at a minimum of 100 times.
- Maximum PC board thickness: .156 inch (3.96mm)

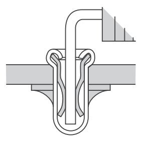

Description	Accepts Lead Size - Inch (mm)	Finish Cup	Finish Spring	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	AMP Part No.
Closed Bottom	·018 - .040 (0.46 - 1.02)	30µ Gold	30µ Gold	A29070-ND	1.16	.93	.74	380598-1
		Tin	30µ Gold	A32362-ND	.51	.41	.33	5380598-2
		Tin	Tin	A32363-ND	.41	.33	.26	5380598-3
Closed Bottom	.036 - .054 (0.91 - 1.37)	Tin	Tin	A32364-ND	.41	.33	.26	1-5380758-0
		Tin	30µ Gold	A32365-ND	.49	.39	.31	1-5380758-1
Open Bottom	.018 - .040 (0.46 - 1.02)	30µ Gold	30µ Gold	A29075-ND	1.22	.98	.78	380635-1
		Tin	30µ Gold	A32366-ND	.75	.60	.48	5380635-2
Stand-Off	.018 - .040 (0.46 - 1.02)	Tin	30µ Gold	A32367-ND	1.49	1.19	.95	1-5380737-0

SIP Sockets

STRAIGHT SOLDER TAIL

The DIPLOMATE Dual Leaf SIP socket family provides high quality at low cost with superior handling characteristics. These stackable housings feature a "true closed bottom" design which prevents solder or flux wicking.

- Housing: Glass-filled thermoplastic, 94V-0 rated, black
- Contact Material: Tin Plated BE. CU.
- Low Profile - .210 inch (5.33mm) maximum
- Dual wiping contacts
- Accepts .008 - .014 inch (0.2 - 0.36mm) thick x .030 inch (0.76mm) maximum wide rectangular leads

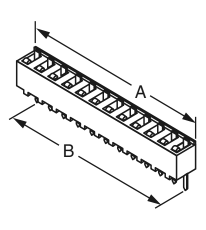

No. of Positions	Dimensions - Inch (mm) A	Dimensions - Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	AMP Part No.
3	.295 (7.49)	.200 (5.08)	A26245-ND	.99	.80	.63	382437-1
4	.395 (10.03)	.300 (7.62)	A24813-ND	.99	.80	.63	382438-1
7	.695 (17.65)	.600 (15.24)	A24814-ND	.99	.80	.63	382441-1
8	.795 (20.19)	.700 (17.78)	A24815-ND	1.08	.87	.69	643640-1
10	.995 (25.27)	.900 (22.86)	A24816-ND	1.62	1.30	1.03	643642-1
12	1.195 (30.35)	1.100 (27.94)	A26246-ND	2.07	1.66	1.32	643644-1
12	1.195 (30.35)	1.100 (27.94)	A29107-ND†	1.74	1.40	1.11	643644-3
14	1.395 (35.43)	1.300 (33.02)	A24817-ND	3.30	2.64	2.09	643646-1
15	1.495 (37.97)	1.400 (35.56)	A24818-ND	3.63	2.91	2.30	643647-1
16	1.595 (40.51)	1.500 (38.1)	A26247-ND	2.37	1.90	1.51	643648-1
17	1.695 (43.05)	1.600 (40.64)	A26248-ND	2.82	2.26	1.79	643649-1
18	1.795 (45.59)	1.700 (43.18)	A24819-ND	3.00	2.40	1.90	643650-1
20	1.995 (50.57)	1.900 (48.26)	A24820-ND	2.82	2.26	1.79	643652-1
22	2.195 (55.75)	2.100 (53.34)	A26249-ND	3.81	3.05	2.42	643654-1
25	2.495 (63.37)	2.400 (60.96)	A24821-ND	8.04	6.44	5.10	643657-1
30	2.995 (76.07)	2.900 (73.66)	A26250-ND	9.54	7.64	6.05	643662-1

† Tin Plated Phosphor Bronze

PQFP Sockets

Housing: High temperature thermoplastic, 94V-0 rated, black

Cover: Polyphenylene sulfide (PPS), 94V-0 rated, black. (MICRO-PITCH: Housing and Cover are high temperature thermoplastic, 94V-0 rated)

Performance Characteristics:

- Current Rating: 1A maximum
- Operating Temperature: -55°C ~ 105°C
- Dielectric Withstanding Voltage: 750VAC minimum
- Capacitance (Adjacent Contacts): 1 picofarad maximum
- Durability: 15 insertion/withdrawal cycles

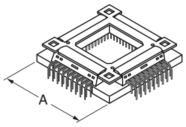

No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	AMP Part No.
	Conventional AMP Sockets						
100	Housing Sub-Assembly	1.140 (28.96)	A24822-ND	23.43	18.75	14.84	821949-4
100	Housing Sub-Assembly	1.140 (28.96)	A35065-ND◆	21.87	17.50	13.86	2-821949-4
100	Cover	1.140 (28.96)	A24823-ND◆	3.33	2.67	2.11	821939-1
132	Housing Sub-Assembly	1.340 (34.04)	A32368-ND◆	32.73	26.19	20.73	2-821949-5
132	Cover	1.340 (34.04)	A24825-ND◆	6.24	5.00	3.96	821942-1
	MICRO-PITCH Sockets for JEDEC Metric Quad Flat Pack IC's						
144	Housing Sub-Assembly	38.2 (1.504)	A24826-ND	34.35	27.48	21.76	822114-3
144	Housing Sub-Assembly	38.2 (1.504)	A32888-ND◆	32.10	25.68	20.33	2-822114-3
144	Cover	38.2 (1.504)	A24827-ND◆	4.34	3.48	2.75	822115-3
160	Housing Sub-Assembly	38.2 (1.504)	A24828-ND	38.19	30.56	24.19	822114-4
160	Housing Sub-Assembly	38.2 (1.504)	A32889-ND◆	35.73	28.59	22.63	2-822114-4
160	Cover	38.2 (1.504)	A24838-ND◆	4.88	3.91	3.09	822115-4
	Tools						
—	Extraction Tool	—	A24839-ND	158.61	—	—	822254-1
100	Insertion Hand Tool for Conventional	—	A24831-ND	968.19	—	—	822253-1
132	Insertion Hand Tool for Conventional	—	A24841-ND	948.48	—	—	822253-2
—	Insertion Hand Tool for MICRO-PITCH	—	A24842-ND	361.46	—	—	822253-4

◆ ***RoHS Compliant***

BGA Sockets 0.5mm

This highly conductive polymer contact provides electrically transparent signal transfer while under compression. **Applications:** • Silicon validation • Customer reference designs • System test and bring up • Wafer test **Features:** • Solderless polymer contact allows for easy socket replacement • Light compression load of 25 grams/contact limits stress on the substrate • Compact design minimizes real estate required • BGA sockets accommodate multiple ball sizes

Specifications: • Contact: Proprietary compound of Polymer and Silver • Insulator: Polyimide • Frame: Thermoplastic, 94V-O or Polyimide • Compression Force: 25 grams per contact average • Durability: 40 cycles • Contact Resistance: 50 mΩ maximum • Capacitance: <0.01pF and 1MHz • Inductance: <0.40 nH at 1.0 kHz • Power Rating: 2 amps per contact maximum • Dielectric Withstanding Voltage: 250 VAC • Operating Temperature: 0°C ~ 105°C

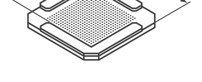

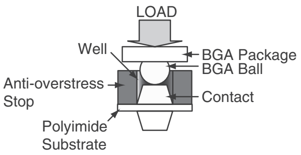

No. of Contacts	Grid Size	Dimensions - Inch (mm) L	Dimensions - Inch (mm) M	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
441	21 x 21	.488 (12.40)	.69 (17.4)	A97433-ND	255.55	207.64	1921125-1
484	22 x 22	.508 (12.90)	.70 (17.9)	A97434-ND	255.55	207.64	1921125-2
529	23 x 23	.528 (13.40)	.72 (18.4)	A97435-ND	255.55	207.64	1921125-3
576	24 x 24	.547 (13.90)	.74 (18.9)	A97436-ND	255.55	207.64	1921125-4
625	25 x 25	.567 (14.40)	.76 (19.4)	A97437-ND	255.55	207.64	1921125-5
676	26 x 26	.587 (14.90)	.78 (19.9)	A97438-ND	255.55	207.64	1921125-6
729	27 x 27	.606 (15.40)	.80 (20.4)	A97439-ND	255.55	207.64	1921125-7
784	28 x 28	.626 (15.90)	.82 (20.9)	A97440-ND	255.55	207.64	1921125-8
841	29 x 29	.646 (16.40)	.84 (21.4)	A97441-ND	255.55	207.64	1921125-9
900	30 x 30	.665 (16.90)	.86 (21.9)	A97442-ND	255.55	207.64	1-1921125-0
961	31 x 31	.685 (17.40)	.88 (22.4)	A97443-ND	255.55	207.64	1-1921125-1
1024	32 x 32	.705 (17.90)	.90 (22.9)	A97444-ND	255.55	207.64	1-1921125-2
1089	33 x 33	.724 (18.40)	.92 (23.4)	A97445-ND	255.55	207.64	1-1921125-3
1156	34 x 34	.744 (18.90)	.94 (23.9)	A97446-ND	255.55	207.64	1-1921125-4
1225	35 x 35	.764 (19.40)	.96 (24.4)	A97447-ND	255.55	207.64	1-1921125-5
1296	36 x 36	.783 (19.90)	.98 (24.9)	A97448-ND	255.55	207.64	1-1921125-6
1369	37 x 37	.803 (20.40)	1.00 (25.4)	A97449-ND	255.55	207.64	1-1921125-7
1444	38 x 38	.823 (20.90)	1.02 (25.9)	A97450-ND	255.55	207.64	1-1921125-8
1521	39 x 39	.843 (21.40)	1.04 (26.4)	A97451-ND	255.55	207.64	1-1921125-9
1600	40 x 40	.862 (21.90)	1.06 (26.9)	A97452-ND	255.55	207.64	2-1921125-0
Hardware Kit for 1921125-1				A97453-ND	324.00	263.25	1921223-1
Hardware Kit for 1921125-2, 1921125-3, 1921125-4, 1921125-5				A97454-ND	324.00	263.25	1921223-2
Hardware Kit for 1921125-6, 1921125-7, 1921125-8, 1921125-9				A97455-ND	324.00	263.25	1921223-3
Hardware Kit for 1-1921125-0, 1-1921125-1, 1-1921125-2, 1-1921125-3				A97456-ND	324.00	263.25	1921223-4
Hardware Kit for 1-1921125-4, 1-1921125-5, 1-1921125-6				A97457-ND	324.00	263.25	1921223-5
Hardware Kit for 1-1921125-7, 1-1921125-8, 1-1921125-9, 2-1921125-0				A97458-ND	324.00	263.25	1921223-6

ON-SHORE TECHNOLOGY, INC.

Surface Mount I.C. Sockets

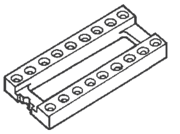

Special Features/Applications: • For surface mounted technology • Tin for solder must be in the PC board **Technical Data:** • Insulator body material: glass-filled polyethersulphone • Temperature range: 55°C ~ 200°C continuous • Solder temperature: 280°C, intermittent **Plating:** • Pin tin plated minimum 80μ nickel+minimum 150μ tin-lead • High temperature insulator

No. of Pins	Contact Spacing Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	1,000
Surface Mount - Screw Machined Pins without Solder Tail						
6	.300 (7.62)	ED2201-ND	.85	.71	.59	.49
8	.300 (7.62)	ED2202-ND◆	1.07	.89	.74	.62
14	.300 (7.62)	ED2203-ND◆	1.87	1.55	1.29	1.08
16	.300 (7.62)	ED2204-ND◆	2.14	1.77	1.48	1.23
18	.300 (7.62)	ED2205-ND	2.16	1.79	1.50	1.24
20	.300 (7.62)	ED2206-ND◆	2.40	1.99	1.66	1.38
22	.400 (10.16)	ED2207-ND	2.64	2.19	1.83	1.52
24	.600 (15.24)	ED2208-ND◆	3.21	2.66	2.22	1.84
28	.600 (15.24)	ED2209-ND	3.74	3.10	2.58	2.14
40	.600 (15.24)	ED2211-ND	4.81	3.98	3.32	2.76
48	.600 (15.24)	ED2212-ND	5.77	4.78	3.98	3.31
64	.600 (15.24)	ED2213-ND	7.69	6.37	5.31	4.41

◆ ***RoHS Compliant***

NORCOMP
A DIVISION OF EDAC (AMERICA) LIMITED

DIN Connectors

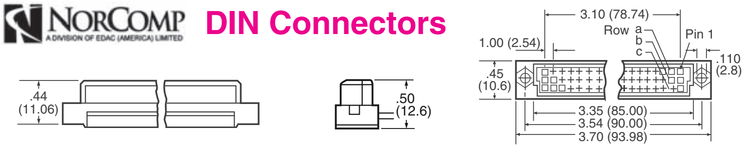

Contacts fitted in rows a and c only.

No. of Rows	No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
3	64	Socket-IDC Type	T8064A-ND◆	16.17	12.50	10.66	689-096-290L001
—	64	Strain Relief	T0064-ND	1.07	.93	.63	164-096-001-000
—	64	Strain Relief	T0064A-ND◆ ***NEW!***	1.79	1.15	.89	164-096-001L000

◆ ***RoHS Compliant*** ***NOTE: Uses 64 conductor .05" Flat Cable***

OK Industries
Division of Jonard Industries Corp.

Socket Wrap I.D.

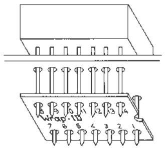

Features:

• Press fit to socket pins • Improves wiring speed • Instant pin numbering • Reduces wiring errors • Large space for user information • Simplifies troubleshooting • Accepts hand labeling

Spacing Inch (mm)	Description	Digi-Key Part No.	Pricing 5	25	50	100
.3 (7.62)	8 Pin I.D.	K470-ND	3.49	10.91	15.27	28.27
	14 Pin I.D.	K266-ND	3.49	10.91	15.27	28.27
	16 Pin I.D.	K267-ND	3.49	10.91	15.27	28.27
	18 Pin I.D.	K496-ND	6.98	21.81	30.54	56.54
	20 Pin I.D.	K269-ND	6.98	21.81	30.54	56.54
	96 Pin I.D.	K514-ND	13.96	43.63	61.08	113.08
.4 (10.16)	22 Pin I.D.	K497-ND	6.98	21.81	30.54	56.54
.6 (15.24)	24 Pin I.D.	K495-ND	6.98	21.81	30.54	56.54
	28 Pin I.D.	K272-ND	6.98	21.81	30.54	56.54
	40 Pin I.D.	K486-ND	13.96	43.63	61.08	113.08

MILL-MAX

Low Cost PLCC Sockets

RoHS COMPLIANT

Fig. 1 — Thru-Hole Mount

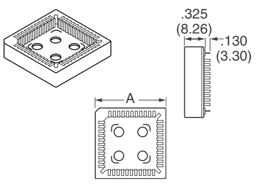

• Accepts JEDEC PLCCs MO-052 AE • Holes for drainage • Standoffs provide clearance for heat dissipation and cleaning • Internal standoffs ensure proper positioning of chip carrier in socket • Easy access for probing installed chip carrier

Fig. 2 — Surface Mount

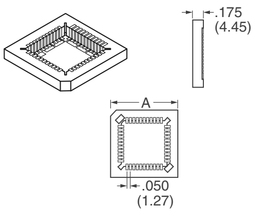

• Accepts JEDEC PLCCs MO-052 AE • Low profile for high density PC board stacking • Standoffs provide clearance for heat dissipation and cleaning

No. of Pins	Dimensions - Inch (mm) A	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
Fig. 1 — Thru-Hole Mount						
20	0.613 (15.57)	ED90005-ND	1.15	.98	.80	940-44-020-24-000000
28	0.720 (18.29)	ED90006-ND	1.16	.98	.81	940-44-028-24-000000
32	0.820 (20.83) / .722 (18.34)	ED90007-ND	1.16	.98	.81	940-44-032-24-000000
44	0.920 (23.37)	ED90008-ND	1.16	.98	.81	940-44-044-24-000000
52	1.020 (25.91)	ED90009-ND	1.24	1.05	.86	940-44-052-24-000000
68	1.220 (30.99)	ED90010-ND	1.52	1.29	1.06	940-44-068-24-000000
84	1.420 (36.07)	ED90011-ND	1.69	1.44	1.18	940-44-084-24-000000
Fig. 2 — Surface Mount						
20	0.613 (15.57)	ED90012-ND	1.12	.96	.78	940-44-020-17-400000
28	0.720 (18.29)	ED90013-ND	1.17	.99	.81	940-44-028-17-400000
32	0.820 (20.83) / .720 (18.29)	ED90014-ND	1.01	.86	.71	940-44-032-17-400000
44	0.900 (22.86)	ED90015-ND	1.27	1.08	.88	940-44-044-17-400000
52	1.020 (25.91)	ED90016-ND	1.38	1.17	.96	940-44-052-17-400000
68	1.220 (30.99)	ED90017-ND	1.76	1.50	1.22	940-44-068-17-400000
84	1.420 (36.07)	ED90018-ND	1.94	1.65	1.35	940-44-084-17-400000

FCI

Minisert

Sockets

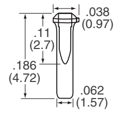

Mounting Hole Diameter	Digi-Key Part No.	Cut Tape Price Each 1	25	100	FCI Part No.
0.0690	609-1012-1-ND	.71	.35	.28	75540-002
	609-1012-2-ND†		1015.00/5,000		75540-002

† Tape and Reel

3M Intra-Connector™

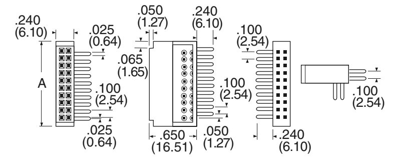

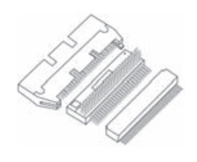

The Intra-Connector mates in-line with standard double row socket connectors. It has one set of female contacts, but two sets of male contacts at right angles. It provides instant line-by-line "probe-ability." The pins can also be used to make daisy chaining possible from a single connector cable end. Modified configurations are quickly available for special connections. The Intra-Connector system provides both straight-in and right angle functions. It mates with a standard .10" x .10" (2.54mm x 2.54mm) dual row connector or PC board-mounted .025" (.64mm) square pins. Two Intra-Connector systems used with the Intra-Switch™ system form a complete test assembly for probing signals under no load and full-load conditions.

Contacts are non-corrosive Alloy 770; body is glass-filled polyester thermoplastic.

No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Price Each
20	1.160 (29.46)	922576-20-ND	16.67
26	1.460 (37.08)	922576-26-ND	17.35
34	1.860 (47.24)	922576-34-ND	19.37
40	2.160 (54.86)	922576-40-ND	21.24
50	2.660 (67.56)	922576-50-ND	22.97
60	3.160 (80.26)	922576-60-ND	26.71

3M Intra-Switch™

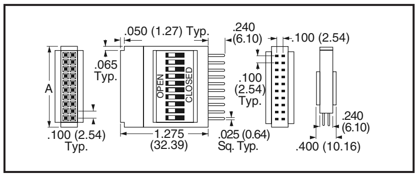

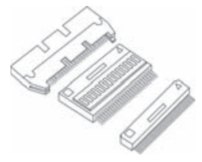

The low profile design and recessed switch buttons allow room for working in confined areas. Using a pencil or probe tip, any or all switches may be actuated.

Applications include switching command signals to or from test equipment and programming optional preset logic functions. Switch buttons are recessed to prevent accidental switching. "Open" and "closed" positions are clearly marked, molded-in the body.

Contacts are non-corrosive Alloy 770; body is glass-filled polyester thermoplastic.

Intra-Switch is compatible with most sockets and mating headers for flat cable, including 3M, T&B/Ansley, Berg, Amp, Symbex and many others.

No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Price Each
20	1.160 (29.46)	922578-20-ND	32.16
34	1.860 (47.24)	922578-34-ND	42.86
40	2.160 (54.86)	922578-40-ND	52.13
50	2.660 (67.56)	922578-50-ND	46.46

Dual-In-Line and PLCC Sockets

Fig. 1 - Dual-In-Line Sockets, Closed Frame

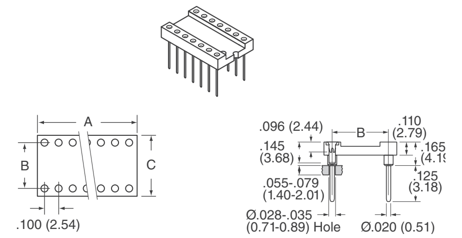

• Closed frame insulator withstands high mechanical impact • Low profile • Plating: Sleeve (Pin) 200µ" Sn/Pb; (RoHS Compliant: 200µ" Sn), Contact (Clip) 30µ" Au

Fig. 2 - Dual-In-Line Sockets, Open Frame

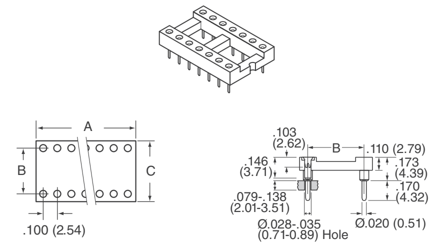

• DIP sockets with solder tail length of .170" (4.32mm), allowing application on multilayer PCBs up to .139" (3.53mm) • Plating: Sleeve (Pin) 200µ" Sn/Pb; (RoHS Compliant: 200µ" Sn), Contact (Clip) 30µ" Au

Fig. 3 - Compact PLCC Sockets

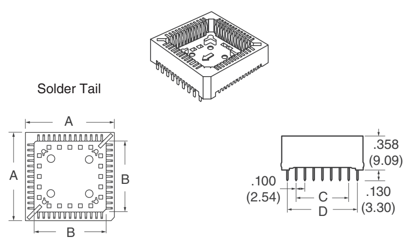

• Designed for JEDEC type devices • Open frame design in solder area improves results of IR soldering and facilitates visual inspection of solder pads • The brown PPS (Ryton R-4) insulator has optional polarizing pegs (PP)

No. of	Dimensions (Inch)						Digi-Key	Price Each			Mill-Max
Pins	A	B	C	D	E	F	Part No.	1	10	100	Part No.
Fig. 1 — Dual-In-Line Sockets, Solder Tail (Closed Frame)											
8	0.4	0.3	0.4	—	—	—	ED60000-ND	.80	.56	.45	210-93-308-41-001000
14	0.7	0.3	0.4	—	—	—	ED60001-ND	1.39	.97	.78	210-93-314-41-001000
16	0.8	0.3	0.4	—	—	—	ED60002-ND	1.59	1.11	.90	210-93-316-41-001000
24	1.2	0.3	0.4	—	—	—	ED60003-ND	2.39	1.66	1.34	210-93-324-41-001000
24	1.2	0.6	0.7	—	—	—	ED60004-ND	2.39	1.66	1.34	210-93-624-41-001000
28	1.4	0.6	0.7	—	—	—	ED60005-ND	2.78	1.93	1.56	210-93-628-41-001000
32	1.6	0.6	0.7	—	—	—	ED60006-ND	3.18	2.21	1.79	210-93-632-41-001000
40	2.0	0.6	0.7	—	—	—	ED60007-ND	3.98	2.76	2.23	210-93-640-41-001000
Fig. 1 — Dual In-Line Sockets, Solder Tail (Closed Frame) — RoHS Compliant											
8	0.4	0.3	0.4	—	—	—	ED90105-ND	.87	.61	.49	210-43-308-41-001000
14	0.7	0.3	0.4	—	—	—	ED90106-ND	1.52	1.06	.86	210-43-314-41-001000
16	0.8	0.3	0.4	—	—	—	ED90107-ND	1.74	1.21	.98	210-43-316-41-001000
24	1.2	0.3	0.4	—	—	—	ED90108-ND	2.61	1.81	1.47	210-43-324-41-001000
24	1.2	0.6	0.7	—	—	—	ED90109-ND	2.61	1.81	1.47	210-43-624-41-001000
28	1.4	0.6	0.7	—	—	—	ED90110-ND	3.05	2.12	1.71	210-43-628-41-001000
32	1.6	0.6	0.7	—	—	—	ED90111-ND	3.48	2.42	1.95	210-43-632-41-001000
40	2.0	0.6	0.7	—	—	—	ED90112-ND	4.35	3.02	2.44	210-43-640-41-001000
Fig. 2 — Dual-In-Line Sockets, Long Solder Tail for Multilayer PC-Boards (Open Frame)											
8	0.4	0.3	0.4	—	—	—	ED60008-ND	.91	.63	.51	111-93-308-41-001000
14	0.7	0.3	0.4	—	—	—	ED60009-ND	1.53	1.06	.86	111-93-314-41-001000
16	0.8	0.3	0.4	—	—	—	ED60010-ND	1.75	1.22	.98	111-93-316-41-001000
20	1.0	0.3	0.4	—	—	—	ED60011-ND	2.22	1.54	1.25	111-93-320-41-001000
24	1.2	0.3	0.4	—	—	—	ED60012-ND	2.64	1.83	1.48	111-93-324-41-001000
24	1.2	0.6	0.7	—	—	—	ED60013-ND	2.64	1.83	1.48	111-93-624-41-001000
28	1.4	0.6	0.7	—	—	—	ED60014-ND	3.06	2.13	1.72	111-93-628-41-001000
32	1.6	0.6	0.7	—	—	—	ED60015-ND	3.48	2.42	1.96	111-93-632-41-001000
40	2.0	0.6	0.7	—	—	—	ED60016-ND	4.32	3.00	2.43	111-93-640-41-001000
Fig. 2 — Dual In-Line Sockets, Long Solder Tail for Multilayer PC-Boards (Open Frame) — RoHS Compliant											
8	0.4	0.3	0.4	—	—	—	ED90113-ND	1.06	.74	.60	111-43-308-41-001000
14	0.7	0.3	0.4	—	—	—	ED90114-ND	1.70	1.18	.95	111-43-314-41-001000
16	0.8	0.3	0.4	—	—	—	ED90115-ND	1.92	1.34	1.08	111-43-316-41-001000
20	1.0	0.3	0.4	—	—	—	ED90116-ND	2.30	1.60	1.29	111-43-320-41-001000
24	1.2	0.3	0.4	—	—	—	ED90117-ND	2.73	1.90	1.53	111-43-324-41-001000
24	1.2	0.6	0.7	—	—	—	ED90118-ND	2.73	1.90	1.53	111-43-624-41-001000
28	1.4	0.6	0.7	—	—	—	ED90119-ND	3.17	2.20	1.78	111-43-628-41-001000
32	1.6	0.6	0.7	—	—	—	ED90120-ND	3.60	2.50	2.02	111-43-632-41-001000
40	2.0	0.6	0.7	—	—	—	ED90121-ND	4.47	3.11	2.51	111-43-640-41-001000
Fig. 3 — Compact PLCC Sockets, Solder Tail — RoHS Compliant											
28	.690	.460	.300	.500	—	—	ED90019-ND	2.40	2.16	1.92	540-44-028-24-000000
32*	.783/.683	.564/.464	.400/.300	.600/.500	—	—	ED90020-ND	2.40	2.16	1.92	540-44-032-24-000000
44	.890	.660	.500	.700	—	—	ED90021-ND	2.77	2.49	2.22	540-44-044-24-000000
52	.990	.760	.600	.800	—	—	ED90022-ND	3.04	2.74	2.44	540-44-052-24-000000
68	1.190	.960	.800	1.000	—	—	ED90023-ND	3.25	2.93	2.61	540-44-068-24-000000
84	1.390	1.160	1.000	1.200	—	—	ED90024-ND	3.91	3.52	3.13	540-44-084-24-000000
Fig. 3 — Compact PLCC Sockets, Surface Mount — RoHS Compliant											
20	.200	.200	.585	.585	.657	.180	ED90025-ND	2.21	2.00	1.77	540-44-020-17-400000
28	.300	.300	.685	.685	.799	.180	ED90026-ND	2.32	2.09	1.86	540-44-028-17-400000
32*	.300	.400	.665	.766	.885	.168	ED90027-ND	1.47	1.33	1.18	540-44-032-17-400000
44	.500	.500	.885	.885	1.082	.180	ED90028-ND	1.88	1.69	1.50	540-44-044-17-400000
52	.600	.600	1.000	1.000	1.224	.180	ED90029-ND	2.87	2.58	2.30	540-44-052-17-400000
68	.800	.800	1.202	1.202	1.507	.180	ED90030-ND	2.87	2.59	2.30	540-44-068-17-400000
84	1.000	1.000	1.400	1.400	1.791	.180	ED90031-ND	3.52	3.17	2.82	540-44-084-17-400000

* Rectangular

Miniature Dual-In-Line Socket Carriers

• Reusable carriers • Pin Carrier Assemblies assure maximum ventilation and better visibility for inspection and repair • Easy mounting due to the ***RECYCLABLE PLASTIC CARRIER***. No solder wicking problems. *Requires .039" (.99mm) minimum diameter holes in PCB.* **Insertion Characteristics:** 3-finger **Plating:** Sleeve (Pin) – 200µ" Sn/Pb; (RoHS Compliant: 200µ" Sn), Contact (Clip) – 30µ" Au

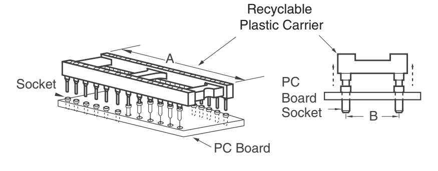

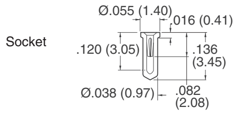

No. of	Dimensions - Inch (mm)		Digi-Key	Pricing				Mill-Max
Pins	A	B	Part No.	1	10	100	500	Part No.
8	0.4 (10.16)	0.3 (7.62)	ED6008-ND	1.68	11.65	94.08	403.20	614-93-308-31-012000
14	0.7 (17.78)	0.3 (7.62)	ED6014-ND	3.39	23.48	189.63	812.70	614-93-314-31-012000
16	0.8 (20.32)	0.3 (7.62)	ED6016-ND	3.80	26.36	212.94	912.60	614-93-316-31-012000
18	0.9 (22.86)	0.3 (7.62)	ED6018-ND	4.22	29.28	236.46	1013.40	614-93-318-31-012000
20	1.0 (25.40)	0.3 (7.62)	ED6020-ND	4.47	31.02	250.53	1073.70	614-93-320-31-012000
24	1.2 (30.48)	0.3 (7.62)	ED6024-ND	5.28	36.61	295.68	1267.20	614-93-324-31-012000
28	1.4 (35.56)	0.3 (7.62)	ED6028-ND	6.08	42.17	340.62	1459.80	614-93-328-31-012000
24	1.2 (30.48)	0.6 (15.24)	ED6124-ND	5.28	36.61	295.68	1267.20	614-93-624-31-012000
28	1.4 (35.56)	0.6 (15.24)	ED6128-ND	6.08	42.17	340.62	1459.80	614-93-628-31-012000
32	1.6 (40.64)	0.6 (15.24)	ED6132-ND	6.89	47.74	385.56	1652.40	614-93-632-31-012000
40	2.0 (50.80)	0.6 (15.24)	ED6140-ND	8.16	56.58	456.96	1958.40	614-93-640-31-012000
RoHS Compliant								
8	0.4 (10.16	0.3 (7.62)	ED90122-ND	2.24	15.55	125.58	538.20	614-43-308-31-012000
14	0.7 (17.78)	0.3 (7.62)	ED90123-ND	3.58	24.83	200.55	859.50	614-43-314-31-012000
16	0.8 (20.32)	0.3 (7.62	ED90124-ND	4.03	27.92	225.54	966.60	614-43-316-31-012000
18	0.9 (22.86)	0.3 (7.62)	ED90125-ND	4.48	31.04	250.74	1074.60	614-43-318-31-012000
20	1.0 (25.40)	0.3 (7.62)	ED90126-ND	4.74	32.89	265.65	1138.50	614-43-320-31-012000
24	1.2 (30.48)	0.3 (7.62)	ED90127-ND	5.60	38.84	313.74	1344.60	614-43-324-31-012000
28	1.4 (35.56)	0.3 (7.62)	ED90128-ND	6.46	44.80	361.83	1550.70	614-43-328-31-012000
24	1.2 (30.48)	0.6 (15.24)	ED90129-ND	5.60	38.84	313.74	1344.60	614-43-624-31-012000
28	1.4 (35.56)	0.6 (15.24)	ED90130-ND	6.46	44.80	361.83	1550.70	614-43-628-31-012000
32	1.6 (40.64)	0.6 (15.24)	ED90131-ND	7.32	50.73	409.71	1755.90	614-43-632-31-012000
40	2.0 (50.80)	0.6 (15.24)	ED90132-ND	8.68	60.16	485.94	2082.60	614-43-640-31-012000

Dual-In-Line Sockets – Right Angle Mount Closed Frame

- For components to be mounted perpendicularly to the PCB, such as LED displays.
- Horizontal mount solder tails are available with either .300" (7.62mm) [standard] or .100" (2.54mm) row spacing.

Fig. 1

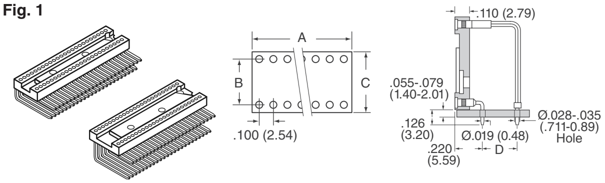

Plating: Sleeve (Pin) - 200µ" Sn/Pb
(RoHS Compliant: 200µ" Sn) Contact (Clip) - 30µ" Au

Fig. 2

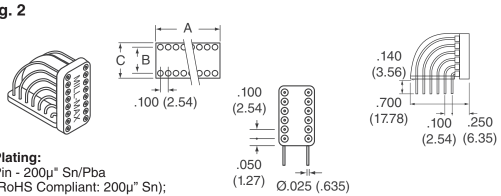

Plating:
Pin - 200µ" Sn/Pba
(RoHS Compliant: 200µ" Sn);
Contact - 200µ" Sn/Pb

Fig.	No. of Pins	Dimensions – Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Mill-Max Part No.
1	6	0.3 (7.62)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58407-ND	5.59	3.88	3.13	2.69	2.24	299-93-306-10-001000
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58408-ND	4.40	3.05	2.47	2.12	1.76	299-93-308-10-001000
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58409-ND	5.38	3.74	3.02	2.59	2.16	299-93-310-10-001000
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58410-ND	6.37	4.42	3.57	3.06	2.55	299-93-312-10-001000
	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58411-ND	6.90	4.79	3.87	3.32	2.77	299-93-314-10-001000
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58412-ND	8.34	5.79	4.68	4.01	3.34	299-93-316-10-001000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58413-ND	9.33	6.47	5.23	4.48	3.74	299-93-318-10-001000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58414-ND	9.92	6.88	5.56	4.77	3.97	299-93-320-10-001000
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58415-ND	11.81	8.19	6.62	5.67	4.73	299-93-324-10-001000
1	8	0.4 (10.16)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58416-ND	5.18	3.59	2.90	2.49	2.07	299-93-608-10-002000
	10	0.5 (12.70)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58417-ND	6.36	4.41	3.56	3.06	2.55	299-93-610-10-002000
	12	0.6 (15.24)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58418-ND	7.54	5.23	4.23	3.62	3.02	299-93-612-10-002000
	14	0.7 (17.78)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58419-ND	8.72	6.05	4.89	4.19	3.49	299-93-614-10-002000
	16	0.8 (20.30)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58420-ND	9.90	6.87	5.55	4.76	3.96	299-93-616-10-002000
	18	0.9 (22.86)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58421-ND	11.08	7.69	6.21	5.32	4.44	299-93-618-10-002000
	20	1.0 (25.40)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58422-ND	11.79	8.18	6.61	5.66	4.72	299-93-620-10-002000
	22	1.1 (27.94)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58423-ND	12.92	8.96	7.24	6.21	5.17	299-93-622-10-002000
	24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58424-ND	14.06	9.75	7.88	6.75	5.63	299-93-624-10-002000
	26	1.3 (33.02)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58425-ND	15.19	10.54	8.51	7.30	6.08	299-93-626-10-002000
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58426-ND	16.33	11.32	9.15	7.84	6.54	299-93-628-10-002000
	30	1.5 (38.10)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58427-ND	17.46	12.11	9.78	8.39	6.99	299-93-630-10-002000
	32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58428-ND	18.59	12.90	10.42	8.93	7.44	299-93-632-10-002000
	36	1.8 (45.72)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58429-ND	20.86	14.47	11.69	10.02	8.35	299-93-636-10-002000
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58430-ND	22.19	15.39	12.43	10.65	8.88	299-93-640-10-002000
1	6	0.3 (7.62)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58431-ND	5.47	3.80	3.07	2.63	2.19	299-93-306-11-001000
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58432-ND	4.25	2.95	2.39	2.05	1.71	299-93-308-11-001000
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58433-ND	5.21	3.61	2.92	2.50	2.09	299-93-310-11-001000
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58434-ND	6.15	4.27	3.45	2.96	2.47	299-93-312-11-001000
	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58435-ND	7.11	4.93	3.98	3.42	2.85	299-93-314-11-001000
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58436-ND	8.06	5.59	4.52	3.87	3.23	299-93-316-11-001000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58437-ND	9.00	6.25	5.05	4.33	3.61	299-93-318-11-001000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58438-ND	9.58	6.64	5.37	4.60	3.84	299-93-320-11-001000
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58439-ND	11.40	7.91	6.39	5.48	4.57	299-93-324-11-001000
2	10	0.5 (12.70)	0.2 (5.08)	0.3 (7.62)	—	ED7800-ND	17.54	12.16	9.82	8.42	7.02	299-99-210-12-001800
						RoHS Compliant						
1	6	0.3 (7.62)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90133-ND	6.03	4.19	3.38	2.90	2.42	299-43-306-10-001000
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90134-ND	4.70	3.26	2.64	2.26	1.88	299-43-308-10-001000
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90135-ND	5.76	4.00	3.23	2.77	2.31	299-43-310-10-001000
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90136-ND	6.83	4.74	3.83	3.28	2.73	299-43-312-10-001000
	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90137-ND	7.89	5.47	4.42	3.79	3.16	299-43-314-10-001000
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90138-ND	8.95	6.21	5.02	4.30	3.58	299-43-316-10-001000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90139-ND	10.01	6.94	5.61	4.81	4.01	299-43-318-10-001000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90140-ND	10.65	7.39	5.97	5.12	4.26	299-43-320-10-001000
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED90141-ND	12.69	8.80	7.11	6.09	5.08	299-43-324-10-001000
1	8	0.4 (10.16)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90142-ND	5.57	3.87	3.13	2.68	2.23	299-43-608-10-002000
	10	0.5 (12.70)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90143-ND	6.86	4.76	3.84	3.30	2.75	299-43-610-10-002000
	12	0.6 (15.24)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90144-ND	8.13	5.64	4.56	3.91	3.26	299-43-612-10-002000
	14	0.7 (17.78)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90145-ND	9.41	6.53	5.28	4.52	3.77	299-43-614-10-002000
	16	0.8 (20.30)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90146-ND	10.70	7.42	6.00	5.14	4.28	299-43-616-10-002000
	18	0.9 (22.86)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90147-ND	11.98	8.31	6.71	5.75	4.80	299-43-618-10-002000
	20	1.0 (25.40)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90148-ND	12.74	8.84	7.14	6.12	5.10	299-43-620-10-002000
	22	1.1 (27.94)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90149-ND	13.97	9.69	7.83	6.71	5.59	299-43-622-10-002000
	24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90150-ND	15.20	10.54	8.52	7.30	6.09	299-43-624-10-002000
	26	1.3 (33.02)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90151-ND	16.43	11.40	9.21	7.89	6.58	299-43-626-10-002000
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90152-ND	17.66	12.25	9.90	8.48	7.07	299-43-628-10-002000
	30	1.5 (38.10)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90153-ND	18.89	13.10	10.58	9.07	7.56	299-43-630-10-002000
	32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90154-ND	20.12	13.95	11.27	9.66	8.05	299-43-632-10-002000
	36	1.8 (45.72)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90155-ND	22.58	15.66	12.65	10.84	9.04	299-43-636-10-002000
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED90156-ND	24.02	16.65	13.45	11.53	9.61	299-43-640-10-002000
1	6	0.3 (7.62)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90157-ND	5.91	4.10	3.31	2.84	2.37	299-43-306-11-001000
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90158-ND	4.55	3.16	2.55	2.19	1.82	299-43-308-11-001000
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90159-ND	5.57	3.87	3.12	2.68	2.23	299-43-310-11-001000
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90160-ND	6.59	4.58	3.70	3.17	2.64	299-43-312-11-001000
	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90161-ND	7.62	5.29	4.27	3.66	3.05	299-43-314-11-001000
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90162-ND	8.64	5.99	4.84	4.15	3.46	299-43-316-11-001000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90163-ND	9.67	6.71	5.42	4.65	3.87	299-43-318-11-001000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90164-ND	10.28	7.13	5.76	4.94	4.12	299-43-320-11-001000
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED90165-ND	12.24	8.49	6.86	5.88	4.90	299-43-324-11-001000

Dual-In-Line Sockets – Open Frame (Screw Machined)

Solder Tail

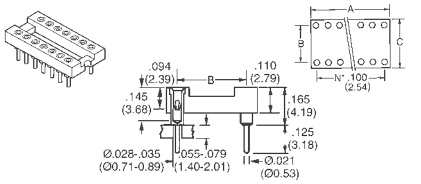

Most popular line of standard low profile IC-Sockets. Open frame design leaves space beneath IC for improved heat dissipation, easier PCB cleaning and inspection. **Insertion Characteristics:** 4-finger standard

Wire Wrap

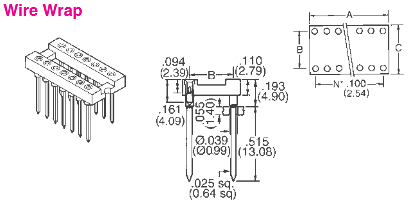

Solderless wire wrap terminals are firmly locked in the insulator body to withstand torque of wrapping tool. Length of terminal for three-level wrapping. **Insertion Characteristics:** 4-finger standard

Low Profile

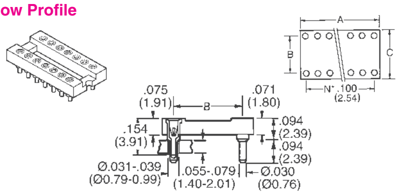

"Ultra low profile" Dual-in-line sockets are equipped with specially designed contacts allowing .095" (2.41mm) height above PCB. Special short contact requires .075" (1.91mm) insertion depth only. Solder tail diameter .030" (.76mm). **Insertion Characteristics:** 4-finger short contact

No. of	Dimensions – Inch (mm)			Digi-Key	Price Each				Mill-Max
Pins	A	B	C	Part No.	1	10	100	500	Part No.
Solder Tail (Gold)									
Sleeve (Pin) – 200µ" Sn/Pb; Contact (Clip) – 30µ" Au									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED3308-ND	.65	.45	.37	.31	110-93-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED3314-ND	1.13	.79	.64	.55	110-93-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED3316-ND	1.29	.90	.73	.62	110-93-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED3318-ND	1.45	1.01	.82	.70	110-93-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED3320-ND	1.61	1.12	.91	.78	110-93-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED3324-ND	1.94	1.35	1.09	.93	110-93-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED3328-ND	2.26	1.57	1.27	1.09	110-93-328-41-001000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED3422-ND	1.77	1.23	1.00	.86	110-93-422-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED3424-ND	1.94	1.35	1.09	.93	110-93-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED3624-ND	1.94	1.35	1.09	.93	110-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED3628-ND	2.26	1.57	1.27	1.09	110-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED3632-ND	2.58	1.79	1.45	1.24	110-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED3640-ND	3.23	2.24	1.81	1.55	110-93-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED3648-ND	3.87	2.69	2.17	1.86	110-93-648-41-001000
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED3950-ND	4.03	2.80	2.26	1.94	110-93-950-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED3964-ND	5.16	3.58	2.89	2.48	110-93-964-41-001000
Sleeve (Pin) – 200µ" Sn; Contact (Clip) – 30µ" Au — RoHS Compliant									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90032-ND	.66	.46	.37	.32	110-43-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90033-ND	1.16	.81	.65	.56	110-43-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED90034-ND	1.32	.92	.74	.64	110-43-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90035-ND	1.49	1.03	.84	.72	110-43-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90036-ND	1.65	1.15	.93	.80	110-43-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90037-ND	1.98	1.38	1.11	.96	110-43-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED90038-ND	2.31	1.61	1.30	1.11	110-43-328-41-001000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED90039-ND	1.82	1.26	1.02	.88	110-43-422-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED90040-ND	1.98	1.38	1.11	.96	110-43-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90041-ND	1.98	1.38	1.11	.96	110-43-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90042-ND	2.31	1.61	1.30	1.11	110-43-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90043-ND	2.64	1.83	1.48	1.27	110-43-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90044-ND	3.30	2.29	1.85	1.59	110-43-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED90045-ND	3.96	2.75	2.22	1.91	110-43-648-41-001000
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED90046-ND	4.13	2.86	2.31	1.98	110-43-950-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED90047-ND	5.28	3.67	2.96	2.54	110-43-964-41-001000
Sleeve (Pin) – 10µ" Au; Contact (Clip) – 30µ" Au									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED56083-ND	.90	.63	.51	.44	110-13-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED56143-ND	1.58	1.10	.89	.76	110-13-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED56163-ND	1.80	1.25	1.01	.87	110-13-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED56183-ND	2.03	1.41	1.14	.98	110-13-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED56203-ND	2.25	1.56	1.26	1.08	110-13-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED56243-ND	2.70	1.88	1.52	1.30	110-13-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED56283-ND	3.15	2.19	1.77	1.52	110-13-328-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED56246-ND	2.70	1.88	1.52	1.30	110-13-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED56286-ND	3.15	2.19	1.77	1.52	110-13-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED56326-ND	3.60	2.50	2.02	1.73	110-13-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED56406-ND	4.50	3.12	2.52	2.16	110-13-640-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED56646-ND	7.20	5.00	4.04	3.46	110-13-964-41-001000
Solder Tail (Tin)									
Sleeve (Pin) – 200µ" Sn/Pb; Contact (Clip) – 200µ" Sn/Pb									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED3108-ND	.48	.34	.27	.24	110-99-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED3114-ND	.84	.59	.48	.41	110-99-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED3116-ND	.96	.67	.54	.47	110-99-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED3118-ND	1.08	.75	.61	.52	110-99-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED3120-ND	1.20	.84	.68	.58	110-99-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED3124-ND	1.44	1.00	.81	.70	110-99-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED3128-ND	1.68	1.17	.95	.81	110-99-328-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED3524-ND	1.44	1.00	.81	.70	110-99-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED3724-ND	1.44	1.00	.81	.70	110-99-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED3728-ND	1.68	1.17	.95	.81	110-99-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED3732-ND	1.92	1.34	1.08	.93	110-99-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED3740-ND	2.40	1.67	1.35	1.16	110-99-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED3748-ND	2.88	2.00	1.62	1.39	110-99-648-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED3764-ND	3.84	2.67	2.16	1.85	110-99-964-41-001000
Sleeve (Pin) – 200µ" Sn; Contact (Clip) – 200µ" Sn — RoHS Compliant									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90048-ND	.51	.36	.29	.25	110-44-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90049-ND	.89	.62	.50	.43	110-44-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED90050-ND	1.02	.71	.58	.49	110-44-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90051-ND	1.15	.80	.65	.56	110-44-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90052-ND	1.28	.89	.72	.62	110-44-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90053-ND	1.53	1.07	.86	.74	110-44-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED90054-ND	1.79	1.24	1.00	.86	110-44-328-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED90055-ND	1.53	1.07	.86	.74	110-44-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90056-ND	1.53	1.07	.86	.74	110-44-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90057-ND	1.79	1.24	1.00	.86	110-44-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90058-ND	2.04	1.42	1.15	.98	110-44-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90059-ND	2.55	1.77	1.43	1.23	110-44-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED90060-ND	3.06	2.13	1.72	1.47	110-44-648-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED90061-ND	4.08	2.83	2.29	1.96	110-44-964-41-001000
Wire Wrap									
Sleeve (Pin) – 200µ" Sn/Pb; Contact (Clip) – 30µ" Au									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED4308-ND	1.94	1.35	1.09	.94	123-93-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED4314-ND	3.39	2.36	1.91	1.63	123-93-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED4316-ND	3.88	2.69	2.18	1.87	123-93-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED4318-ND	4.37	3.03	2.45	2.10	123-93-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED4320-ND	4.65	3.23	2.61	2.24	123-93-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED4324-ND	6.03	4.19	3.38	2.90	123-93-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED4328-ND	6.97	4.84	3.91	3.35	123-93-328-41-001000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED4422-ND	5.57	3.86	3.12	2.68	123-93-422-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED4424-ND	6.03	4.19	3.38	2.90	123-93-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED4624-ND	6.03	4.19	3.38	2.90	123-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED4628-ND	6.97	4.84	3.91	3.35	123-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED4632-ND	7.89	5.48	4.43	3.79	123-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED4640-ND	8.92	6.19	5.00	4.29	123-93-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED4648-ND	11.15	7.74	6.25	5.36	123-93-648-41-001000
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED4950-ND	11.60	8.05	6.50	5.57	123-93-950-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED4964-ND	14.72	10.21	8.25	7.07	123-93-964-41-001000
Sleeve (Pin) — 200µ" Sn; Contact (Clip) – 30µ" Au — RoHS Compliant									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90166-ND	2.48	1.72	1.39	1.19	123-43-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90167-ND	4.00	2.78	2.24	1.92	123-43-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED90168-ND	4.51	3.13	2.53	2.17	123-43-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90169-ND	5.02	3.48	2.81	2.41	123-43-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90170-ND	5.32	3.69	2.98	2.56	123-43-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90171-ND	6.29	4.37	3.53	3.03	123-43-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED90172-ND	7.27	5.04	4.07	3.49	123-43-328-41-001000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED90173-ND	5.81	4.03	3.26	2.79	123-43-422-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED90174-ND	6.29	4.37	3.53	3.03	123-43-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90175-ND	6.29	4.37	3.53	3.03	123-43-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90176-ND	7.27	5.04	4.07	3.49	123-43-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90177-ND	8.24	5.72	4.62	3.96	123-43-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90178-ND	9.78	6.79	5.48	4.70	123-43-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED90179-ND	11.65	8.08	6.53	5.60	123-43-648-41-001000
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED90180-ND	12.12	8.41	6.79	5.82	123-43-950-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED90181-ND	15.38	10.67	8.62	7.39	123-43-964-41-001000
Sleeve (Pin) – 10µ" Au; Contact (Clip) – 30µ" Au									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED57083-ND	2.52	1.75	1.42	1.22	123-13-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED57143-ND	4.41	3.06	2.47	2.12	123-13-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED57163-ND	5.04	3.50	2.83	2.42	123-13-316-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED57203-ND	6.50	4.51	3.64	3.12	123-13-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED57243-ND	7.71	5.35	4.32	3.71	123-13-324-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED57246-ND	7.71	5.35	4.32	3.71	123-13-624-41-001000
28	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED57286-ND	8.92	6.19	5.00	4.29	123-13-628-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED57406-ND	12.04	8.35	6.75	5.78	123-13-640-41-001000
Low Profile									
Sleeve (Pin) – 200µ" Sn/Pb; Contact (Clip) – 30µ" Au									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED5308-ND	1.04	.73	.59	.51	115-93-308-41-003000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED5314-ND	1.75	1.22	.99	.85	115-93-314-41-003000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED5316-ND	2.00	1.39	1.13	.97	115-93-316-41-003000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED5318-ND	2.25	1.56	1.26	1.08	115-93-318-41-003000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED5320-ND	2.42	1.68	1.36	1.16	115-93-320-41-003000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED5324-ND	3.01	2.09	1.69	1.45	115-93-324-41-003000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED5328-ND	3.38	2.35	1.90	1.63	115-93-328-41-003000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED5422-ND	2.77	1.92	1.55	1.33	115-93-422-41-003000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED5424-ND	3.01	2.09	1.69	1.45	115-93-424-41-003000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED5624-ND	2.90	2.01	1.63	1.40	115-93-624-41-003000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED5628-ND	3.38	2.35	1.90	1.63	115-93-628-41-003000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED5632-ND	3.98	2.76	2.23	1.91	115-93-632-41-003000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED5640-ND	4.83	3.35	2.71	2.32	115-93-640-41-003000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED5648-ND	5.91	4.10	3.31	2.84	115-93-648-41-003000
Sleeve (Pin) – 200µ" Sn; Contact (Clip) – 30µ" Au — RoHS Compliant									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90208-ND	1.20	.83	.67	.58	115-43-308-41-003000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90209-ND	1.93	1.34	1.08	.93	115-43-314-41-003000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED90210-ND	2.19	1.52	1.23	1.06	115-43-316-41-003000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90211-ND	2.45	1.70	1.38	1.18	115-43-318-41-003000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90212-ND	2.62	1.82	1.47	1.26	115-43-320-41-003000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90213-ND	3.12	2.17	1.75	1.50	115-43-324-41-003000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED90214-ND	3.62	2.52	2.03	1.74	115-43-328-41-003000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED90215-ND	2.87	1.99	1.61	1.38	115-43-422-41-003000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED90216-ND	3.12	2.17	1.75	1.50	115-43-424-41-003000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90217-ND	3.12	2.17	1.75	1.50	115-43-624-41-003000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90218-ND	3.62	2.52	2.03	1.74	115-43-628-41-003000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90219-ND	4.12	2.86	2.31	1.98	115-43-632-41-003000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90220-ND	5.12	3.56	2.87	2.46	115-43-640-41-003000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED90221-ND	6.13	4.25	3.44	2.95	115-43-648-41-003000

IC Sockets

With Integral Decoupling Capacitor Machine Screw Contact

Special Features/Applications:
• To eliminate noise at the source before it can reach the chip • Advantages for uses such as high speed logic and memory applications • To eliminate long leads as potential sources of noise because capacitor leads are connected directly to the ground and voltage pin of the socket • To save minimum of 12% on board space

Technical Data: • Insulator body material: glass filled polyester UL94V-0 • Pin: screw machined Socket with integral glass encapsulated ceramic capacitor 0.1µF, 50VDC

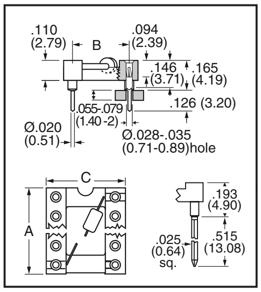

No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	Mill-Max Part No.
Tin Plated, Solder Tab								
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2101-ND	3.09	26.81	216.51	110-93-314-41-801000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2102-ND	3.26	28.29	228.48	110-93-316-41-801000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2103-ND	3.88	33.64	271.74	110-93-318-41-801000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2104-ND	3.57	30.94	249.90	110-93-320-41-801000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED2106-ND	4.10	35.57	287.28	110-93-324-41-801000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2105-ND	4.72	40.92	330.54	110-93-624-41-801000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2107-ND	4.70	40.69	328.65	110-93-628-41-801000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2108-ND	7.52	65.18	526.47	110-93-640-41-801000
Tin Plated, Solder Tab — RoHS Compliant								
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90182-ND	3.24	28.08	226.80	110-43-314-41-801000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED90183-ND	4.21	36.48	294.63	110-43-316-41-801000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90184-ND	4.54	39.34	317.73	110-43-318-41-801000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90185-ND	4.10	35.52	286.86	110-43-320-41-801000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90186-ND	4.66	40.35	325.92	110-43-324-41-801000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90187-ND	4.93	42.69	344.82	110-43-624-41-801000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90188-ND	5.27	45.68	368.97	110-43-628-41-801000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90189-ND	7.86	68.09	549.99	110-43-640-41-801000
Gold Plated, Solder Tab								
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2109-ND	3.60	31.23	252.21	110-13-314-41-801000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2110-ND	4.21	36.48	294.63	110-13-316-41-801000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2111-ND	4.54	39.34	317.73	110-13-318-41-801000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2112-ND	4.27	37.02	299.04	110-13-320-41-801000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED2114-ND	5.31	45.99	371.49	110-13-324-41-801000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2113-ND	5.57	48.23	389.55	110-13-624-41-801000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2115-ND	6.04	52.31	422.52	110-13-628-41-801000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2116-ND	8.87	76.86	620.76	110-13-640-41-801000
3-Level Tin Plated Wire-Wrap								
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2117-ND	5.06	43.89	354.48	123-93-314-41-801000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2118-ND	5.55	48.13	388.71	123-93-316-41-801000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2119-ND	5.98	51.82	418.53	123-93-318-41-801000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2120-ND	6.23	53.98	435.96	123-93-320-41-801000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2121-ND	7.15	61.93	500.22	123-93-624-41-801000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2122-ND	8.42	73.01	589.68	123-93-628-41-801000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2123-ND	10.44	90.51	731.01	123-93-640-41-801000
3-Level Tin Plated Wire-Wrap — RoHS Compliant								
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90190-ND	5.35	46.38	374.64	123-43-314-41-801000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED90191-ND	5.88	50.99	411.81	123-43-316-41-801000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90192-ND	6.35	55.02	444.36	123-43-318-41-801000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90193-ND	6.62	57.41	463.68	123-43-320-41-801000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90194-ND	7.62	66.04	533.40	123-43-624-41-801000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90195-ND	8.98	77.82	628.53	123-43-628-41-801000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90196-ND	11.20	97.08	784.14	123-43-640-41-801000

Dual-In-Line Sockets – Low Profile Open Frame

• Dip Sockets with reduced height; only .122” (3.10mm) above PCB. • Hi-Rel, 4-finger #30 clip
Plating: Sleeve (Pin) – 200µ” Sn/Pb; (RoHS Compliant: 200µ” Sn), Contact (Clip) – 30µ” Au

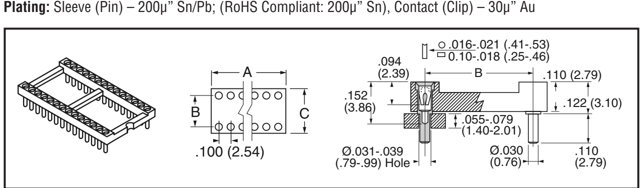

No.of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	500	Mill-Max Part No.
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED58083-ND	.86	7.32	59.85	220.78	115-93-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED58143-ND	1.45	12.27	100.35	370.18	115-93-314-41-001000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED58163-ND	1.65	14.00	114.53	422.47	115-93-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED58183-ND	1.87	15.79	129.15	476.42	115-93-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED58203-ND	2.00	16.91	138.38	510.45	115-93-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED58243-ND	2.50	21.12	172.80	637.44	115-93-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED58283-ND	2.80	23.68	193.73	714.63	115-93-328-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED58246-ND	2.50	21.12	172.80	637.44	115-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED58286-ND	2.80	23.68	193.73	714.63	115-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED58326-ND	3.29	27.86	227.93	840.79	115-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED58406-ND	4.00	33.83	276.75	1020.90	115-93-640-41-001000
RoHS Compliant									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90197-ND	.99	8.42	68.85	253.98	115-43-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90198-ND	1.60	13.56	110.93	409.19	115-43-314-41-001000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED90199-ND	1.82	15.40	126.00	464.80	115-43-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90200-ND	2.03	17.22	140.85	519.58	115-43-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90201-ND	2.17	18.40	150.53	555.27	115-43-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90202-ND	2.59	21.92	179.33	661.51	115-43-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED90203-ND	3.01	25.44	208.13	767.75	115-43-328-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90204-ND	2.59	21.92	179.33	661.51	115-43-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90205-ND	3.01	25.44	208.13	767.75	115-43-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90206-ND	3.42	28.96	236.93	873.99	115-43-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90207-ND	4.25	36.00	294.53	1086.47	115-43-640-41-001000

Shrink Dip Sockets – Solder Tail – Open Frame

- High density Dual-in-Line Sockets for devices featuring .070” (1.78mm) lead spacing
- Four-finger beryllium copper contacts meet high vibration and shock requirements

Insertion Characteristics: 4-finger standard

Plating: Sleeve (Pin) – 200µ” Sn/Pb; (RoHS Compliant: 200µ” Sn), Contact (Clip) – 30µ” Au

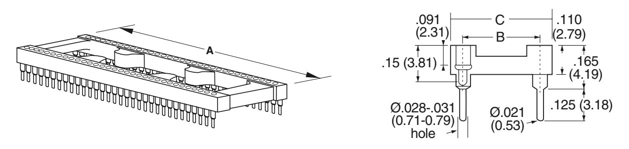

No.of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	500	Mill-Max Part No.
16	0.572 (14.53)	0.3 (7.62)	0.39 (9.91)	ED22163-ND	3.18	22.05	178.08	763.20	117-93-316-41-005000
28	0.992 (25.20)	0.4 (10.16)	0.49 (12.45)	ED22284-ND	5.04	34.92	282.03	1208.70	117-93-428-41-005000
30	1.062 (26.97)	0.4 (10.16)	0.49 (12.45)	ED22304-ND	5.36	37.18	300.30	1287.00	117-93-430-41-005000
48	1.692 (42.98)	0.4 (10.16)	0.49 (12.45)	ED22484-ND	7.98	55.35	447.09	1916.10	117-93-448-41-005000
20	0.712 (18.08)	0.6 (15.24)	0.69 (17.53)	ED22206-ND	3.73	25.84	208.74	894.60	117-93-620-41-005000
28	0.992 (25.20)	0.6 (15.24)	0.69 (17.53)	ED22286-ND	5.04	34.92	282.03	1208.70	117-93-628-41-005000
40	1.412 (35.86)	0.6 (15.24)	0.69 (17.53)	ED22406-ND	6.73	46.64	376.74	1614.60	117-93-640-41-005000
42	1.482 (37.64)	0.6 (15.24)	0.69 (17.53)	ED22426-ND	7.04	48.83	394.38	1690.20	117-93-642-41-005000
48	1.692 (42.98)	0.6 (15.24)	0.69 (17.53)	ED22486-ND	7.98	55.35	447.09	1916.10	117-93-648-41-005000
52	1.832 (46.53)	0.6 (15.24)	0.69 (17.53)	ED22526-ND	8.61	59.72	482.37	2067.30	117-93-652-41-005000
56	1.972 (50.09)	0.6 (15.24)	0.69 (17.53)	ED22566-ND	9.24	64.06	517.44	2217.60	117-93-656-41-005000
64	2.252 (57.20)	0.6 (15.24)	0.69 (17.53)	ED22646-ND	10.50	72.80	588.00	2520.00	117-93-664-41-005000
68	2.392 (60.76)	0.6 (15.24)	0.69 (17.53)	ED22686-ND	11.12	77.12	622.86	2669.40	117-93-668-41-005000
64	2.252 (57.20)	0.75 (19.05)	0.84 (21.34)	ED22647-ND	10.05	69.68	562.80	2412.00	117-93-764-41-005000
RoHS Compliant									
16	0.572 (14.53)	0.3 (7.62)	0.39 (9.91)	ED90222-ND	3.32	22.98	185.64	795.60	117-43-316-41-005000
28	0.992 (25.20)	0.4 (10.16)	0.49 (12.45)	ED90223-ND	5.27	36.50	294.84	1263.60	117-43-428-41-005000
30	1.062 (26.97)	0.4 (10.16)	0.49 (12.45)	ED90224-ND	5.61	38.87	313.95	1345.50	117-43-430-41-005000
48	1.692 (42.98)	0.4 (10.16)	0.49 (12.45)	ED90225-ND	8.36	57.95	468.09	2006.10	117-43-448-41-005000
20	0.712 (18.08)	0.6 (15.24)	0.69 (17.53)	ED90226-ND	3.89	26.96	217.77	933.30	117-43-620-41-005000
28	0.992 (25.20)	0.6 (15.24)	0.69 (17.53)	ED90227-ND	5.27	36.50	294.84	1263.60	117-43-628-41-005000
40	1.412 (35.86)	0.6 (15.24)	0.69 (17.53)	ED90228-ND	7.04	48.80	394.17	1689.30	117-43-640-41-005000
42	1.482 (37.64)	0.6 (15.24)	0.69 (17.53)	ED90229-ND	7.37	51.09	412.65	1768.50	117-43-642-41-005000
48	1.692 (42.98)	0.6 (15.24)	0.69 (17.53)	ED90230-ND	8.36	57.95	468.09	2006.10	117-43-648-41-005000
52	1.832 (46.53)	0.6 (15.24)	0.69 (17.53)	ED90231-ND	9.02	62.50	504.84	2163.60	117-43-652-41-005000
56	1.972 (50.09)	0.6 (15.24)	0.69 (17.53)	ED90232-ND	9.68	67.08	541.80	2322.00	117-43-656-41-005000
64	2.252 (57.20)	0.6 (15.24)	0.69 (17.53)	ED90233-ND	11.00	76.23	615.72	2638.80	117-43-664-41-005000
68	2.392 (60.76)	0.6 (15.24)	0.69 (17.53)	ED90235-ND	11.66	80.81	652.68	2797.20	117-43-668-41-005000
64	2.252 (57.20)	0.75 (19.05)	0.84 (21.34)	ED90234-ND	11.00	76.23	615.72	2638.80	117-43-764-41-005000

Dual-In-Line Sockets – Surface Mount, Stub Tail, Closed Frame

• Closed frame insulator is vision system compatible • High-temp Nylon 46, suitable for infra-red and vapor phase soldering

Plating: Sleeve (Pin) – 200µ” Sn/Pb; Contact (Clip) – 200µ” Sn/Pb
(RoHS Compliant: 200µ” Sn Sleeve and Contact)

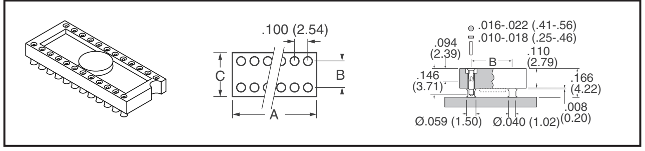

No.of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Mill-Max Part No.
Vacuum Pads Top Surface Only										
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED2128-ND	.75	6.50	52.50	225.00	375.00	214-99-308-01-670800
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2129-ND	1.31	11.39	91.98	394.20	657.00	214-99-314-01-670800
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2130-ND	1.50	13.00	105.00	450.00	750.00	214-99-316-01-670800
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2131-ND	1.69	14.64	118.23	506.70	844.50	214-99-318-01-670800
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2132-ND	2.16	18.72	151.20	648.00	1080.00	214-99-320-01-670800
Vacuum Pad Top Surface Only — RoHS Compliant										
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90236-ND	1.15	9.96	80.43	344.70	574.50	214-44-308-01-670800
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90237-ND	1.74	15.05	121.59	521.10	868.50	214-44-314-01-670800
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED90238-ND	1.93	16.74	135.24	579.60	966.00	214-44-316-01-670800
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90239-ND	2.13	18.46	149.10	639.00	1065.00	214-44-318-01-670800
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90240-ND	2.25	19.47	157.29	674.10	1123.50	214-44-320-01-670800
Vacuum Pads Top and Bottom										
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2133-ND	2.16	18.72	151.20	648.00	1080.00	214-99-624-01-670800
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2134-ND	2.52	21.84	176.40	756.00	1260.00	214-99-628-01-670800
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED2135-ND	2.88	24.96	201.60	864.00	1440.00	214-99-632-01-670800
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2136-ND	3.45	29.90	241.50	1035.00	1725.00	214-99-640-01-670800
Vacuum Pads Top and Bottom — RoHS Compliant										
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90241-ND	2.63	22.75	183.75	787.50	1312.50	214-44-624-01-670800
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90242-ND	3.00	26.03	210.21	900.90	1501.50	214-44-628-01-670800
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90243-ND	3.38	29.28	236.46	1013.40	1689.00	214-44-632-01-670800
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90244-ND	3.98	34.45	278.25	1192.50	1987.50	214-44-640-01-670800

In-Line Sockets and Headers - Solder Tail and Solderless

Fig. 1

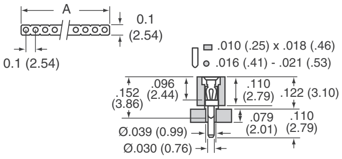

Fig. 2

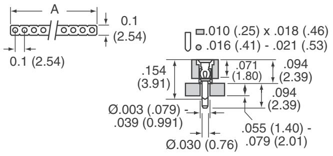

Fig. 3

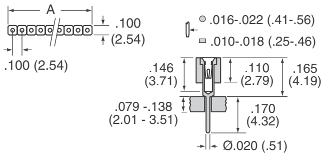

Fig. 4

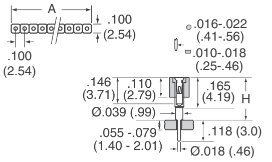

Fig. 5

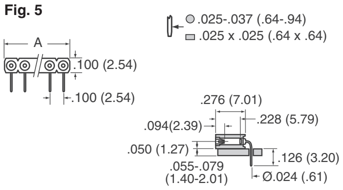

Fig. 6

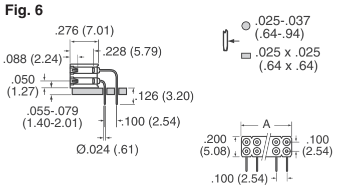

Fig. 7

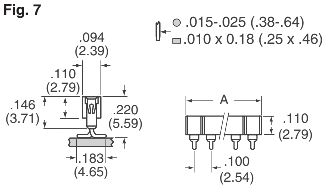

Fig. 8

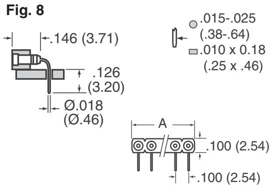

Fig. 9

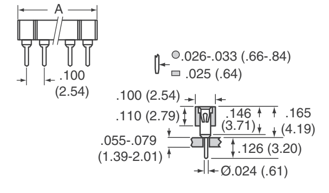

Fig. 10

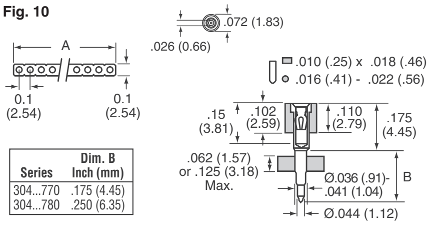

Fig. 11

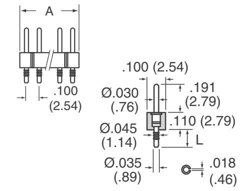

Fig. 12

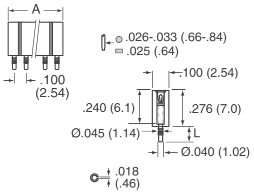

Fig. 13

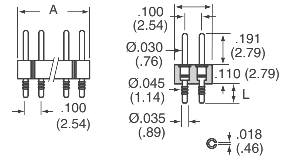

Fig. 14

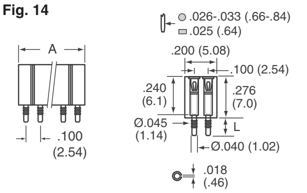

Fig. 15

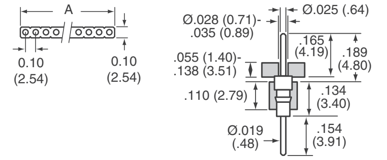

Fig. 16

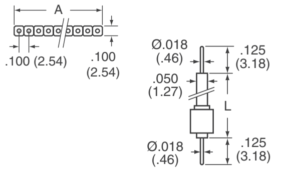

Fig.	Description	No. of Pins	Dimension A Inch (mm)	Plating Sleeve/Pin	Plating Contact/Clip	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Mill-Max Part No.
					Solder Tail Socket					
1	Very Low Profile, Series 315...01	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED7864-ND	6.22	5.27	4.31	315-93-164-41-001000
2	Ultra Low Profile, Series 315...03	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED7964-ND	6.51	5.52	4.51	315-93-164-41-003000
3	Single Row, Long Solder Tail, Series 311...01	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED1064-ND	5.25	4.55	3.68	311-93-164-41-001000
4	Single Row, Series 316...01 H=.594	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED1164-ND	12.41	10.76	8.69	316-93-164-41-001000
4	Single Row, Series 316...03 H=.315	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED1264-ND	10.09	8.75	7.07	316-93-164-41-003000
4	Single Row, Series 316...06 H=.236	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED1364-ND	9.38	8.13	6.57	316-93-164-41-006000
4	Single Row, Series 316...07 H=.402	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED1464-ND	10.87	9.43	7.62	316-93-164-41-007000
4	Single Row, Series 316...08 H=.472	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED15064-ND	11.45	9.93	8.02	316-93-164-41-008000
5	Single Row, Right Angle .030" Diameter Pins	50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED1450-ND	9.44	8.18	6.61	801-93-050-20-001000
6	Double Row, Right Angle .030" Diameter Pins	2 x 50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED14100-ND	21.24	18.41	14.87	803-93-100-20-001000
7	Single Row, .220" Surface Mount	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED23064-ND	8.28	7.18	5.80	310-93-164-41-105000
8	Single Row, Series 399...03 Right Angle	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED22064-ND	9.88	8.57	6.92	399-93-164-10-003000
9	Single Row, Low Profile .030" Diameter Pins	64	6.4 (162.56)	200µ" Sn/Pb	30µ" Au	ED2764-ND	8.47	7.34	5.93	801-93-064-10-002000
					Solder Tail Socket — RoHS Compliant					
1	Very Low Profile, Series 315...01	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90245-ND	6.57	5.56	4.55	315-43-164-41-001000
2	Ultra Low Profile, Series 315...03	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90246-ND	6.86	5.81	4.75	315-43-164-41-003000
3	Single Row, Long Solder Tail, Series 311...01	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90247-ND	5.52	4.79	3.87	311-43-164-41-001000
4	Single Row, Series 316...01 H=.594	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90248-ND	13.13	11.39	9.20	316-43-164-41-001000
4	Single Row, Series 316...03 H=.315	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90249-ND	10.67	9.25	7.47	316-43-164-41-003000
4	Single Row, Series 316...06 H=.236	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90250-ND	9.94	8.62	6.96	316-43-164-41-006000
4	Single Row, Series 316...07 H=.402	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90251-ND	11.50	9.97	8.05	316-43-164-41-007000
4	Single Row, Series 316...08 H=.472	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90252-ND	12.12	10.51	8.49	316-43-164-41-008000
5	Single Row, Right Angle .030" Diameter Pins	50	5.0 (127.00)	200µ" Sn	30µ" Au	ED90253-ND	9.89	8.58	6.93	801-43-050-20-001000
6	Double Row, Right Angle .030" Diameter Pins	2 x 50	5.0 (127.00)	200µ" Sn	30µ" Au	ED90254-ND	22.42	19.44	15.70	803-43-100-20-001000
7	Single Row, .220" Surface Mount	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90255-ND	8.80	7.63	6.16	310-43-164-41-105000
8	Single Row, Series 399...03 Right Angle	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90256-ND	10.46	9.07	7.33	399-43-164-10-003000
9	Single Row, Low Profile .030" Diameter Pins	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED90257-ND	8.78	7.61	6.15	801-43-064-10-002000
					Solderless Press-Fit Header/Socket					
10	Solderless Press-Fit Socket, Series 304...770	64	6.4 (162.56)	10µ" Au	30µ" Au	ED8064-ND◆	10.27	8.70	7.12	304-13-164-41-770000
10	Solderless Press-Fit Socket, Series 304...780	64	6.4 (162.56)	10µ" Au	30µ" Au	ED8164-ND◆	11.11	9.40	7.69	304-13-164-41-780000
11	Single Row Header Compliant Tail L=.104	64	6.4 (162.56)	10µ" Au	—	ED2864-ND	12.05	10.45	8.44	800-10-064-61-001000
11	Single Row Header Compliant Tail L=.143	64	6.4 (162.56)	10µ" Au	—	ED2964-ND	11.68	10.13	8.18	800-10-064-62-001000
12	Single Row Socket Compliant Tail L=.104	50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED15050-ND	11.25	9.76	7.88	801-93-050-61-001000
12	Single Row Socket Compliant Tail L=.104	50	5.0 (127.00)	200µ" Sn	30µ" Au	ED90258-ND◆	11.71	10.15	8.20	801-43-050-61-001000
12	Single Row Socket Compliant Tail L=.143	50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED1650-ND	11.28	9.78	7.90	801-93-050-62-001000
12	Single Row Socket Compliant Tail L=.143	50	5.0 (127.00)	200µ" Sn	30µ" Au	ED90259-ND◆	11.72	10.16	8.21	801-43-050-62-001000
13	Double Row Header Compliant Tail L=.104	2 x 32	3.2 (81.28)	10µ" Au	—	ED3064-ND	12.05	10.45	8.44	802-10-064-61-001000
13	Double Row Header Compliant Tail L=.143	2 x 32	3.2 (81.28)	10µ" Au	—	ED3164-ND	11.68	10.13	8.18	802-10-064-62-001000
14	Double Row Socket Compliant Tail L=.104	2 x 50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED15100-ND	20.97	18.18	14.68	803-93-100-61-001000
14	Double Row Socket Compliant Tail L=.104	2 x 50	5.0 (127.00)	200µ" Sn	30µ" Au	ED90260-ND◆	21.82	18.91	15.28	803-43-100-61-001000
14	Double Row Socket Compliant Tail L=.143	2 x 50	5.0 (127.00)	200µ" Sn/Pb	30µ" Au	ED16100-ND	21.03	18.23	14.72	803-93-100-62-001000
14	Double Row Socket Compliant Tail L=.143	2 x 50	5.0 (127.00)	200µ" Sn	30µ" Au	ED90261-ND◆	21.85	18.94	15.30	803-43-100-62-001000
					Solder Tail Header Strip					
15	Pin/Solder Tail Header Strip, Series 350	64	6.4 (162.56)	10µ" Au	—	ED7764-ND	9.47	8.02	6.56	350-10-164-00-001000
16	Single Row, .018/.018 Pin L=.210	64	6.4 (162.56)	10µ" Au	—	ED16064-ND	9.67	8.39	6.78	342-10-164-00-591000
16	Single Row, .018/.018 Pin L=.335	64	6.4 (162.56)	10µ" Au	—	ED17064-ND	11.06	9.59	7.75	342-10-164-00-592000

◆ ***RoHS Compliant***

(Continued)

In-Line Sockets and Headers - Solder Tail and Solderless *(Cont.)*

Fig. 17

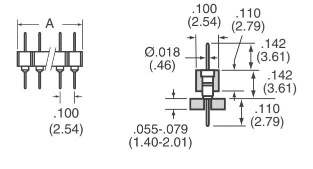

Fig. 18

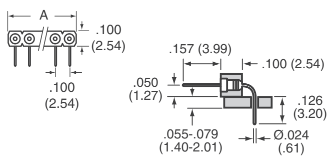

Fig. 19

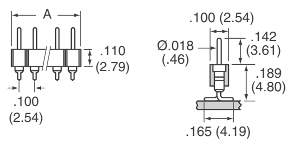

Fig. 20

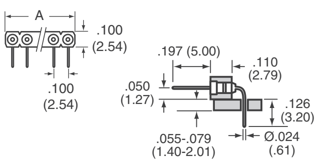

Fig. 21

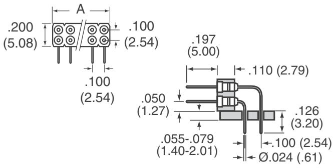

Fig. 22

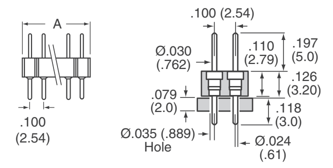

Fig. 23

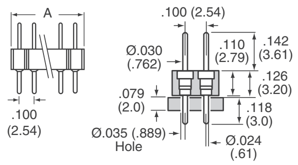

Fig. 24

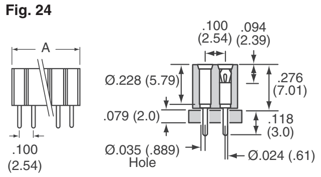

Fig. 25

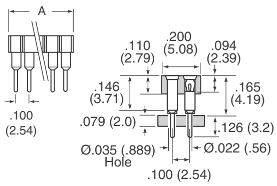

Fig. 26

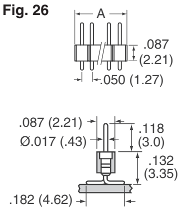

Fig. 27

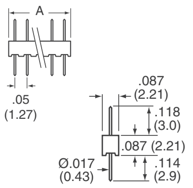

Fig. 28

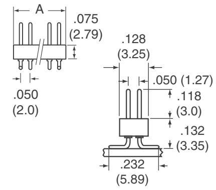

Fig. 29

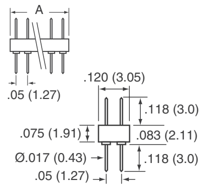

Fig. 30

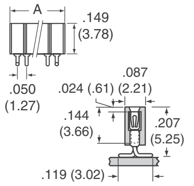

Fig. 31

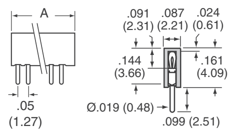

Fig. 32

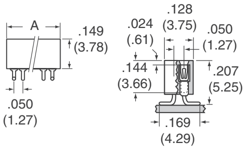

Fig. 33

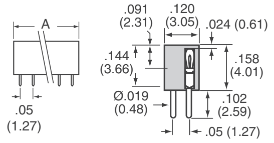

Fig. 34

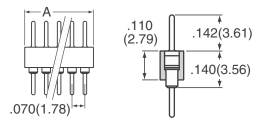

Fig. 35

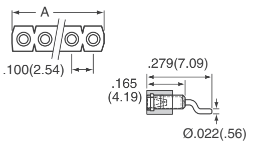

Fig.	Description	No. of Pins	Dimension A Inch (mm)	Plating Sleeve/Pin	Plating Contact/Clip	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Mill-Max Part No.
16	Single Row, .018/.018 Pin L=.585	64	6.4 (162.56)	10μ" Au	—	ED18064-ND	16.52	14.32	11.57	342-10-164-00-593000
16	Single Row, .018/.018 Pin L=.835	64	6.4 (162.56)	10μ" Au	—	ED19064-ND	22.90	19.85	16.03	342-10-164-00-594000
17	Single Row, Series 350...06 Straight	64	6.4 (162.56)	10μ" Au	—	ED2064-ND	7.97	6.91	5.58	350-10-164-00-006000
18	Single Row, Series 399, 90° Right Angle	64	6.4 (162.56)	10μ" Au	—	ED2164-ND	9.21	7.99	6.45	399-10-164-10-009000
19	Single Row, .189" Surface Mount Header	64	6.4 (162.56)	10μ" Au	—	ED24064-ND◆	10.77	9.34	7.54	350-10-164-00-106000
20	Single Row, Right Angle .030" Diameter Pins	64	6.4 (162.56)	10μ" Au	—	ED2564-ND	9.50	8.24	6.66	800-10-064-20-001000
21	Double Row, Right Angle .030" Diameter Pins	2 x 32	3.2 (81.28)	10μ" Au	—	ED2664-ND	12.80	11.10	8.97	802-10-064-20-001000
	Interconnects, .100" (2.54mm) Grid									
22	Double Row, Pin Header, Straight Solder Tail	2 x 32	3.2 (81.28)	10μ" Au	—	ED9464-ND	9.15	7.75	6.34	802-10-064-10-001000
23	Double Row, Low Profile Pin Header	2 x 32	3.2 (81.28)	10μ" Au	—	ED9564-ND	8.73	7.39	6.05	802-10-064-10-002000
24	Double Row, Socket, Straight Solder Tail	2 x 36	3.6 (91.44)	200μ" Sn/Pb	30μ" Au	ED9672-ND	11.35	9.61	7.86	803-93-072-10-001000
24	Double Row, Socket, Straight Solder Tail	2 x 36	3.6 (91.44)	200μ" Sn	30μ" Au	ED90262-ND◆	11.87	10.05	8.22	803-43-072-10-001000
25	Double Row, Low Profile Socket	2 x 36	3.6 (91.44)	200μ" Sn/Pb	30μ" Au	ED9772-ND	10.31	8.73	7.14	803-93-072-10-002000
25	Double Row, Low Profile Socket	2 x 36	3.6 (91.44)	200μ" Sn	30μ" Au	ED90263-ND◆	10.69	9.05	7.40	803-43-072-10-002000
	Interconnects, .050" (1.27mm) Grid									
26	Single Row, .132" (3.35mm) SMT Header	50	2.5 (63.50)	10μ" Au	—	ED1050-ND	12.48	10.82	8.74	850-10-050-30-001000
27	Single Row, .087" (2.21mm) Profile Pin Header	50	2.5 (63.50)	10μ" Au	—	ED8250-ND◆	7.38	6.25	5.11	850-10-050-10-001000
28	Double Row, .132" (3.35mm) SMT Header	2 x 50	2.5 (63.50)	10μ" Au	—	ED10100-ND◆	15.70	13.61	10.99	852-10-100-30-001000
29	Double Row, .075" (1.91mm) Profile Pin Header	2 x 50	2.5 (63.50)	10μ" Au	—	ED83100-ND◆	13.72	11.62	9.50	852-10-100-10-001000
30	Single Row, .207" (5.26mm) SMT Socket	50	2.5 (63.50)	200μ" Sn/Pb	30μ" Au	ED1150-ND	12.74	11.05	8.92	851-93-050-30-001000
30	Single Row, .207" (5.26mm) SMT Socket	50	2.5 (63.50)	200μ" Sn	30μ" Au	ED90264-ND◆	13.58	11.78	9.51	851-43-050-30-001000
31	Single Row, .161" (4.09mm) Profile Socket	50	2.5 (63.50)	200μ" Sn/Pb	30μ" Au	ED8450-ND	10.29	8.71	7.13	851-93-050-10-001000
31	Single Row, .161" (4.09mm) Profile Socket	50	2.5 (63.50)	200μ" Sn	30μ" Au	ED90265-ND◆	10.86	9.19	7.52	851-43-050-10-001000
32	Double Row, .207" (5.26mm) SMT Socket	2 x 50	2.5 (63.50)	200μ" Sn/Pb	30μ" Au	ED11100-ND	20.72	17.97	14.51	853-93-100-30-001000
32	Double Row, .207" (5.26mm) SMT Socket	2 x 50	2.5 (63.50)	200μ" Sn	30μ" Au	ED90266-ND◆	22.00	19.07	15.40	853-43-100-30-001000
33	Double Row, .161" (4.09mm) Profile Socket	2 x 50	2.5 (63.50)	200μ" Sn/Pb	30μ" Au	ED85100-ND	19.17	16.22	13.28	853-93-100-10-001000
33	Double Row, .161" (4.09mm) Profile Socket	2 x 50	2.5 (63.50)	200μ" Sn	30μ" Au	ED90267-ND◆	20.22	17.11	14.00	853-43-100-10-001000
	Interconnect Header, .070" (1.78mm) Grid — RoHS Compliant									
34	Single Row, Solder Tail	21	1.482 (37.64)	200μ" Sn/100μ" Ni	—	ED90309-ND	3.37	2.92	2.36	862-40-021-00-180000
	Right Angle Interconnect Sockets, .100" (2.54mm) Grid — RoHS Compliant									
35	Single Row, .030" (0.76mm) Diameter Pins SMT	2	0.2 (5.08)	200μ" Sn	30μ" Au	ED90300-ND	1.20	1.02	.83	801-43-002-40-002000
		3	0.3 (7.62)	200μ" Sn	30μ" Au	ED90301-ND	1.57	1.34	1.09	801-43-003-40-002000
		4	0.4 (10.16)	200μ" Sn	30μ" Au	ED90302-ND	1.82	1.54	1.26	801-43-004-40-002000
		5	0.5 (12.70)	200μ" Sn	30μ" Au	ED90303-ND	2.17	1.84	1.51	801-43-005-40-002000
		6	0.6 (15.24)	200μ" Sn	30μ" Au	ED90304-ND	2.53	2.15	1.76	801-43-006-40-002000
		7	0.7 (17.78)	200μ" Sn	30μ" Au	ED90305-ND	2.86	2.42	1.98	801-43-007-40-002000
		8	0.8 (20.32)	200μ" Sn	30μ" Au	ED90306-ND	2.98	2.53	2.07	801-43-008-40-002000
		9	0.9 (22.86)	200μ" Sn	30μ" Au	ED90307-ND	3.31	2.80	2.29	801-43-009-40-002000
		10	1.0 (25.40)	200μ" Sn	30μ" Au	ED90308-ND	3.51	2.97	2.43	801-43-010-40-002000
	Right Angle Interconnects, .050" (1.27mm) Grid, Solder Tail									
36	Single Row, Pin Header	50	2.5 (63.50)	10μ" Au	—	ED8650-ND◆	12.86	10.88	8.91	850-10-050-20-001000
37	Double Row, Pin Header	2 x 50	2.5 (63.50)	10μ" Au	—	ED87100-ND◆	17.59	14.89	12.18	852-10-100-20-001000
38	Single Row, Socket	50	2.5 (63.50)	200μ" Sn/Pb	30μ" Au	ED8850-ND	13.21	11.18	9.15	851-93-050-20-001000
38	Single Row, Socket	50	2.5 (63.50)	200μ" Sn	30μ" Au	ED90278-ND◆	14.03	11.88	9.72	851-43-050-20-001000
39	Double Row, Socket	2 x 50	2.5 (63.50)	200μ" Sn/Pb	30μ" Au	ED89100-ND	23.11	19.56	16.00	853-93-100-20-001000
39	Double Row, Socket	2 x 50	2.5 (63.50)	200μ" Sn	30μ" Au	ED90268-ND◆	24.52	20.75	16.98	853-43-100-20-001000
	Interconnects, 2mm Grid									
40	Single Row, .189" (4.80mm) SMT Header	50	3.94 (100.08)	10μ" Au	—	ED1250-ND◆	10.61	9.20	7.43	830-10-050-30-001000
41	Single Row Pin Header	50	3.94 (100.08)	10μ" Au	—	ED9050-ND◆	8.52	7.22	5.90	830-10-050-10-001000
42	Double Row, .189" (4.80mm) SMT Header	2 x 50	3.94 (100.08)	10μ" Au	—	ED12100-ND◆	19.76	17.13	13.83	832-10-100-30-001000
43	Double Row Pin Header	2 x 50	3.94 (100.08)	10μ" Au	—	ED91100-ND◆	15.85	13.42	10.98	832-10-100-10-001000

◆ ***RoHS Compliant***

(Continued)

Fig. 36

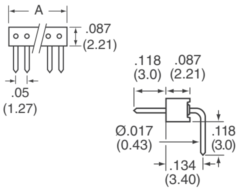

Fig. 37

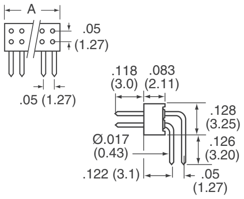

Fig. 38

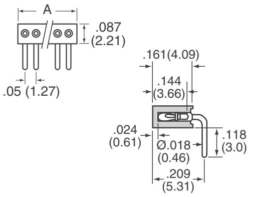

Fig. 39

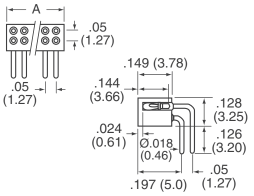

Fig. 40

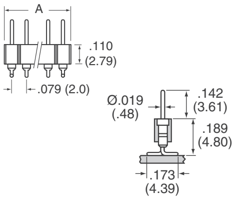

Fig. 41

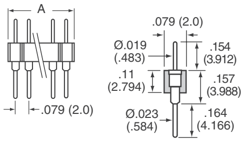

Fig. 42

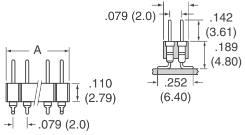

Fig. 43

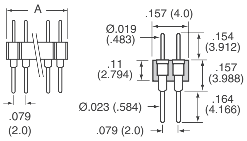

Fig. 44

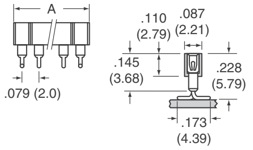

Fig. 45

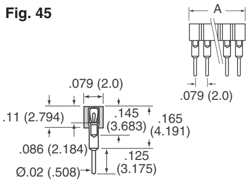

Fig. 46

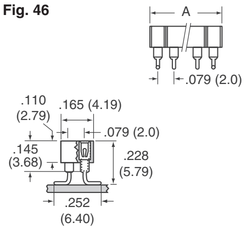

Fig. 47

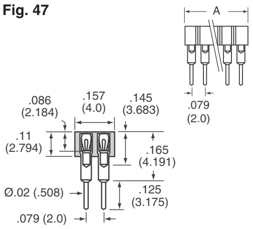

Fig. 48

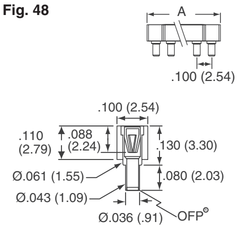

Fig. 49

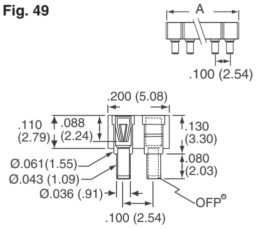

Fig. 50

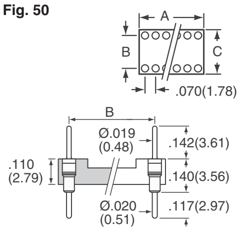

Fig.	Description	No. of Pins	Dimension A Inch (mm)	Plating Sleeve/Pin	Plating Contact/Clip	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Mill-Max Part No.
44	Single Row, .228” (5.79mm) SMT Socket	50	3.94 (100.08)	200µ” Sn/Pb	30µ” Au	ED1350-ND	9.00	7.80	6.30	831-93-050-30-001000
44	Single Row, .228” (5.79mm) SMT Socket	50	3.94 (100.08)	200µ” Sn	30µ” Au	ED90269-ND◆	9.55	8.28	6.69	831-43-050-30-001000
45	Single Row Socket	50	3.94 (100.08)	200µ” Sn/Pb	30µ” Au	ED9250-ND	6.24	5.28	4.32	831-93-050-10-001000
45	Single Row Socket	50	3.94 (100.08)	200µ” Sn	30µ” Au	ED90270-ND◆	6.49	5.49	4.50	831-43-050-10-001000
46	Double Row, .228” (5.79mm) SMT Socket	2 x 50	3.94 (100.08)	200µ” Sn/Pb	30µ” Au	ED13100-ND	18.88	16.36	13.22	833-93-100-30-001000
46	Double Row, .228” (5.79mm) SMT Socket	2 x 50	3.94 (100.08)	200µ” Sn	30µ” Au	ED90271-ND◆	20.12	17.44	14.09	833-43-100-30-001000
47	Double Row Socket	2 x 50	3.94 (100.08)	200µ” Sn/Pb	30µ” Au	ED93100-ND	11.59	9.81	8.03	833-93-100-10-001000
47	Double Row Socket	2 x 50	3.94 (100.08)	200µ” Sn	30µ” Au	ED90272-ND◆	12.04	10.20	8.34	833-43-100-10-001000
OFP® Pass Thru Sockets .100” (2.54mm) for .030” Round Pins and .025” Square Pins — RoHS Compliant										
48	Single Row Socket	64	6.4 (162.56)	200µ” Sn	30µ” Au	ED90286-ND	16.58	14.37	11.61	834-43-064-10-001000
49	Double Row Socket	2 x 36	3.6 (91.44)	200µ” Sn	30µ” Au	ED90287-ND	18.64	16.16	13.05	835-43-072-10-001000

◆ ***RoHS Compliant***

Fig.	No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	Mill-Max Part No.
Solder Tail Shrink Dip Header .070” (1.78mm) — RoHS Compliant									
50	16	.572 (14.53)	.300 (7.62)	.390 (9.91)	ED90288-ND	2.75	23.82	192.36	162-40-316-00-180000
	28	.992 (25.20)	.400 (10.16)	.490 (12.45)	ED90289-ND	4.37	37.88	305.97	162-40-428-00-180000
	30	1.062 (26.97)	.400 (10.16)	.490 (12.45)	ED90290-ND	4.66	40.38	326.13	162-40-430-00-180000
	48	1.692 (42.98)	.400 (10.16)	.490 (12.45)	ED90291-ND	6.95	60.24	486.57	162-40-448-00-180000
	20	.712 (18.08)	.600 (15.24)	.690 (17.53)	ED90292-ND	3.23	27.95	225.75	162-40-620-00-180000
	28	.992 (25.20)	.600 (15.24)	.690 (17.53)	ED90293-ND	4.37	37.88	305.97	162-40-628-00-180000
	40	1.412 (35.86)	.600 (15.24)	.690 (17.53)	ED90294-ND	5.85	50.73	409.71	162-40-640-00-180000
	42	1.482 (37.64)	.600 (15.24)	.690 (17.53)	ED90311-ND	6.13	53.12	429.03	162-40-642-00-180000
	48	1.692 (42.98)	.600 (15.24)	.690 (17.53)	ED90295-ND	6.95	60.24	486.57	162-40-648-00-180000
	52	1.832 (46.53)	.600 (15.24)	.690 (17.53)	ED90296-ND	7.50	65.03	525.21	162-40-652-00-180000
	56	1.972 (50.09)	.600 (15.24)	.690 (17.53)	ED90297-ND	8.05	69.76	563.43	162-40-656-00-180000
	64	2.252 (57.20)	.600 (15.24)	.690 (17.53)	ED90298-ND	9.15	79.27	640.29	162-40-664-00-180000
	68	2.392 (60.76)	.600 (15.24)	.690 (17.53)	ED90299-ND	9.70	84.03	678.72	162-40-668-00-180000

Universal Serial Bus Connectors

RoHS

Features: • USB receptacles for thru-hole and surface mount • Plug retention tabs • Kinked locating legs for secure PCB retention • Fully compatible with USB 1.0 specification • Passes 16MHz Signal Attentuation per ASTM-D-4566 **Material Specifications:** • Shell and Contact: Copper alloy • Shell Finish: Tin/lead over copper • Contact Finish: 30µ selective gold, tin/lead tail • Housing: Glass filled thermoplastic rated UL94V-0

Ratings: • Voltage: 30VAC (rms) • Current: 1A maximum per contact for 30°C temperature rise. Thru-hole housings rated at 130°C for wave soldering. SMT housing rated at 240°C for reflow soldering **Electrical:** • Contact Resistance: 30mW maximum • Insulation Resistance: 1000mΩ minimum • Dielectric Withstanding Voltage: 750VAC at sea level • Capacitance: 2pF maximum

Fig. 1

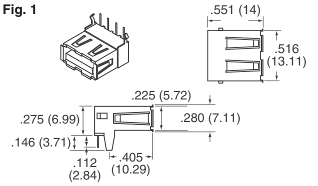

Fig. 2

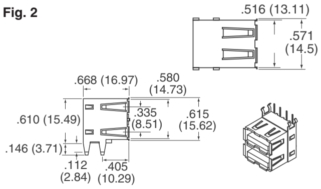

Fig. 3

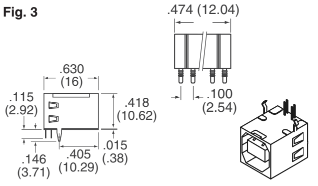

Fig. 4

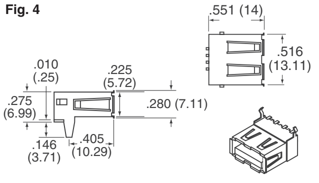

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Mill-Max Part No.
1	Type A Receptacle, Single, Thru Hole	ED90062-ND	1.34	1.13	.93	.69	.58	896-43-004-90-000000
2	Type A Receptacle, Double, Thru Hole	ED90063-ND	2.16	1.84	1.50	1.11	.94	896-43-008-90-000000
3	Type B Receptacle, Single, Thru Hole	ED90064-ND	1.34	1.13	.93	.69	.58	897-43-004-90-000000
4	Type A Receptacle, Single, Surface Mount	ED90065-ND	1.34	1.13	.93	.69	.58	896-43-004-00-000000

MILL-MAX

Modular Spring Loaded Contacts

RoHS COMPLIANT

A

Features:
• Modular contacts for use on .100" grid, available in heights from .137" ~ .430", supplied in single and double row contact strips. • Precision machined piston/base and gold plated components assure a 1,000,000 minimum cycle life. • Pistons have a long stroke relative to the low profile of the assembly. • Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak. • High temperature thermoplastic insulators are suitable for surface mount processes. • A typical application would be as the base unit (battery/charger) interface for portable equipment such as mobile phones/radios, bar code readers, medical and test instruments.

Fig. 1

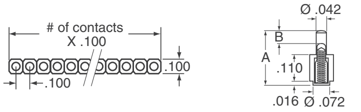

Fig. 2

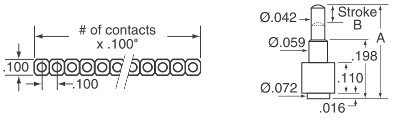

Fig. 3

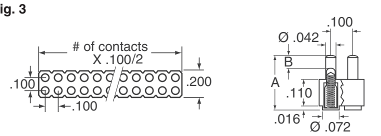

Fig. 4

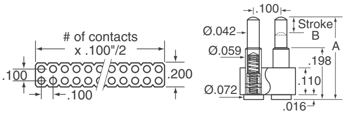

Fig. 5

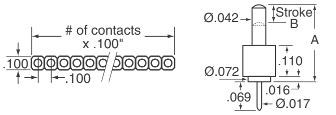

Fig. 6

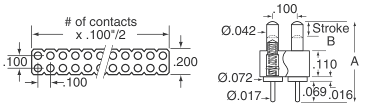

Fig. 7

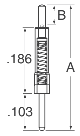

Fig.	Contacts	Initial Height Dimension A Inch (mm)	Stroke Dimension B Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Mill-Max Part No.
Single Row SMD - Series 811								
1	64	.137 (3.48)	.039 (0.99)	ED8110-64-ND	24.76	23.00	20.05	811-22-064-30-000101
		.177 (4.50)	.055 (1.40)	ED8111-64-ND	24.20	22.48	19.60	811-22-064-30-001101
		.197 (5.00)	.055 (1.40)	ED8112-64-ND	24.28	22.55	19.66	811-22-064-30-002101
		.217 (5.51)	.055 (1.40)	ED8113-64-ND	24.35	22.61	19.71	811-22-064-30-003101
		.236 (5.99)	.055 (1.40)	ED8114-64-ND	24.73	22.97	20.02	811-22-064-30-004101
Single Row SMD - Series 812								
2	64	.255 (6.48)	.055 (1.40)	ED8187-64-ND	27.20	25.26	22.02	812-22-064-30-000101
		.275 (6.98)	.055 (1.40)	ED8188-64-ND	27.36	25.41	22.15	812-22-064-30-001101
		.295 (7.49)	.055 (1.40)	ED8189-64-ND	27.87	25.88	22.56	812-22-064-30-002101
		.315 (8.00)	.055 (1.40)	ED8190-64-ND	28.41	26.39	23.01	812-22-064-30-003101
		.335 (8.51)	.055 (1.40)	ED8191-64-ND	35.12	32.62	28.44	812-22-064-30-004101
		.350 (8.89)	.055 (1.40)	ED8192-64-ND	35.58	33.04	28.81	812-22-064-30-005101
		.370 (9.40)	.055 (1.40)	ED8193-64-ND	35.74	33.19	28.94	812-22-064-30-006101
		.390 (9.91)	.055 (1.40)	ED8194-64-ND	35.92	33.36	29.09	812-22-064-30-007101
		.410 (10.41)	.055 (1.40)	ED8195-64-ND	36.30	33.72	29.39	812-22-064-30-008101
		.430 (10.92)	.055 (1.40)	ED8196-64-ND	36.59	33.99	29.63	812-22-064-30-009101
Double Row SMD - Series 813								
3	72	.137 (3.48)	.039 (0.99)	ED8130-72-ND	27.54	25.58	22.30	813-22-072-30-000101
		.177 (4.50)	.055 (1.40)	ED8131-72-ND	26.91	24.99	21.79	813-22-072-30-001101
		.197 (5.00)	.055 (1.40)	ED8132-72-ND	27.00	25.07	21.86	813-22-072-30-002101
		.217 (5.51)	.055 (1.40)	ED8133-72-ND	27.08	25.15	21.92	813-22-072-30-003101
		.236 (5.99)	.055 (1.40)	ED8134-72-ND	27.51	25.55	22.27	813-22-072-30-004101
		.256 (6.50)	.055 (1.40)	ED8135-72-ND	19.80	18.39	16.03	813-22-072-30-005101
		.276 (7.01)	.055 (1.40)	ED8136-72-ND	19.80	18.39	16.03	813-22-072-30-006101
		.295 (7.49)	.055 (1.40)	ED8137-72-ND	19.80	18.39	16.03	813-22-072-30-007101
Double Row SMD - Series 814								
4	72	.255 (6.48)	.055 (1.40)	ED8165-72-ND	30.28	28.12	24.52	814-22-072-30-000101
		.275 (6.98)	.055 (1.40)	ED8166-72-ND	30.46	28.29	24.67	814-22-072-30-001101
		.295 (7.49)	.055 (1.40)	ED8167-72-ND	31.03	28.82	25.13	814-22-072-30-002101
		.315 (8.00)	.055 (1.40)	ED8168-72-ND	31.65	29.39	25.62	814-22-072-30-003101
		.335 (8.51)	.055 (1.40)	ED8169-72-ND	39.20	36.40	31.74	814-22-072-30-004101
		.350 (8.89)	.055 (1.40)	ED8170-72-ND	39.71	36.88	32.15	814-22-072-30-005101
		.370 (9.40)	.055 (1.40)	ED8171-72-ND	39.89	37.05	32.30	814-22-072-30-006101
		.390 (9.91)	.055 (1.40)	ED8172-72-ND	40.10	37.24	32.46	814-22-072-30-007101
		.410 (10.41)	.055 (1.40)	ED8173-72-ND	40.53	37.64	32.81	814-22-072-30-008101
		.430 (10.92)	.055 (1.40)	ED8174-72-ND	40.86	37.94	33.08	814-22-072-30-009101
Single Row PCB - Series 821								
5	64	.137 (3.48)	.055 (1.40)	ED8197-64-ND	28.88	26.82	23.39	821-22-064-10-000101
		.177 (4.50)	.055 (1.40)	ED8198-64-ND	25.38	23.57	20.55	821-22-064-10-001101
		.197 (5.00)	.055 (1.40)	ED8199-64-ND	25.40	23.59	20.57	821-22-064-10-002101
		.217 (5.51)	.055 (1.40)	ED8200-64-ND	25.51	23.69	20.65	821-22-064-10-003101
		.236 (5.99)	.055 (1.40)	ED8201-64-ND	25.91	24.06	20.98	821-22-064-10-004101
Double Row PCB - Series 823								
6	72	.137 (3.48)	.055 (1.40)	ED8175-72-ND	32.18	29.89	26.06	823-22-072-10-000101
		.177 (4.50)	.055 (1.40)	ED8176-72-ND	28.24	26.23	22.86	823-22-072-10-001101
		.197 (5.00)	.055 (1.40)	ED8177-72-ND	28.26	26.25	22.88	823-22-072-10-002101
		.217 (5.51)	.055 (1.40)	ED8178-72-ND	28.38	26.36	22.98	823-22-072-10-003101
		.236 (5.99)	.055 (1.40)	ED8179-72-ND	28.83	26.78	23.34	823-22-072-10-004101
Spring-Loaded Contact								
7	—	.351 (8.92)	.055 (1.40)	ED90310-ND	1.13	1.02	.84	0950-0-15-20-71-14-11-0

Range of Contacts Available	Digi-Key Part No.	Base Price	Pin Adder
Fig. 1 — Single Row SMD - Series 811			
01 ~ 64	ED8110-XX-ND	12.03	.21
	ED8111-XX-ND	11.45	.21
	ED8112-XX-ND	11.54	.21
	ED8113-XX-ND	11.61	.21
	ED8114-XX-ND	11.99	.21
Fig. 2 — Single Row SMD - Series 812			
02 ~ 64	ED8187-XX-ND	13.25	.23
	ED8188-XX-ND	12.79	.24
	ED8189-XX-ND	13.31	.24
	ED8190-XX-ND	13.23	.25
	ED8191-XX-ND	16.92	.30
	ED8192-XX-ND	16.76	.31
	ED8193-XX-ND	16.92	.31
	ED8194-XX-ND	17.11	.31
	ED8195-XX-ND	17.50	.31
	ED8196-XX-ND	17.16	.32
Fig. 3 — Double Row SMD - Series 813			
02 ~ 72 (even)	ED8130-XX-ND	13.04	.43
	ED8131-XX-ND	12.75	.42
	ED8132-XX-ND	12.84	.42
	ED8133-XX-ND	12.92	.42
	ED8134-XX-ND	13.01	.43
	ED8135-XX-ND	9.35	.31
	ED8136-XX-ND	9.35	.31
	ED8137-XX-ND	9.35	.31
Fig. 4 — Double Row SMD - Series 814			
04 ~ 72 (even)	ED8165-XX-ND	14.44	.47
	ED8166-XX-ND	14.62	.47
	ED8167-XX-ND	14.85	.48
	ED8168-XX-ND	15.13	.49
	ED8169-XX-ND	18.63	.61
	ED8170-XX-ND	18.80	.62
	ED8171-XX-ND	18.99	.62
	ED8172-XX-ND	19.20	.63
	ED8173-XX-ND	19.29	.63
	ED8174-XX-ND	19.28	.64
Fig. 5 — Single Row PCB - Series 821			
02 ~ 64	ED8197-XX-ND	13.71	.25
	ED8198-XX-ND	12.03	.22
	ED8199-XX-ND	12.05	.22
	ED8200-XX-ND	12.16	.22
	ED8201-XX-ND	12.57	.22
Fig. 6 — Double Row PCB - Series 823			
04 ~ 72 (even)	ED8175-XX-ND	15.32	.50
	ED8176-XX-ND	13.40	.44
	ED8177-XX-ND	13.43	.44
	ED8178-XX-ND	13.55	.44
	ED8179-XX-ND	13.66	.45

HOW TO ORDER — 4 EASY STEPS

How do I order an ED8110 header with 63 pins? Call Digi-Key for pricing, or determine the cost yourself, following the steps below.

ED □□□□ - □□ - ND
Series — Number of Desired Pins

How to Order — In 4 Easy Steps	***Our Example***	***Your Digi-Key Part Number***
Step 1. Select needed "Digi-Key Part Number" and number of pins desired	ED8110-63-ND	ED ____-__-ND
Step 2. Begin with appropriate "Base Price" of your selected Part Number (refer to chart)	12.03 *(1 pin – Base Price)*	____
Step 3. Multiply the number of pins you desire (minus one) by "Pin Adder" of your selected Part Number (refer to chart)	62 x .21 = 13.02 *(62 pins – Pin Adder)*	__ x __ = ___
Step 4. Add Step 2 and Step 3 together for Final Cost!	Your Cost = $25.05 *(63 pins – Total)*	Your Cost = $___

Note: **For quantities of 10 or more, call Digi-Key.**

Single In-Line Strip Sockets — Solder Tail and Solderless

MATERIALS:
• **Insulator Body:** Glass filled thermoplastic polyester, self-extinguishing rated UL 94V-O; color black; resistant against detergents, mineral acids, solvents, greases and oils (short time) • **Receptacle (sleeve):** Screw machined brass, plated 200μ" tin-lead; (RoHS Compliant: 200μ" tin) • **Pin:** Screw machined brass with 10μ" gold plating • **Contact:** Stamped beryllium-copper, plated 30μ" gold • **Mechanical Life:** 100 cycles minimum

ELECTRICAL DATA: • **Rated Current:** 1A (Series 7000, 7400); 3A (7100, 7200, 7500, 7600) • **Rated Voltage:** 100 VRMS/150VDC • **Contact Resistance:** 10mΩ maximum • **Insulation Resistance:** 10,000MΩ minimum • **Dielectric Strength:** 1000 VRMS minimum • **Maximum Capacitance:** .8pF (Series 7000, 7400); 1pF (Series 7100, 7200, 7500, 7600)

ENVIRONMENTAL DATA: • **Operating Temperature Range:** -55°C ~ 125°C • **Vibration:** 10-2000Hz, 15 grams • **Shock (no elect. discontinuity greater than 1μs):** 150 grams • **Solderability:** IEC 68-2-20Ta. • **Resistance to Soldering Heat:** IEC 68-2-20, 260°C, 5s • **Resistance to Atmosphere Corrosion:** IEC 68-2-42 and 43

Fig. 1 — Standard Solder Tail

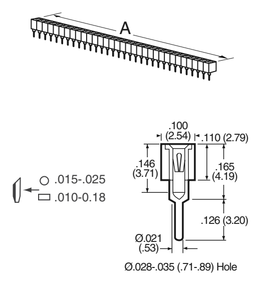

Fig. 2 — Low Profile Socket

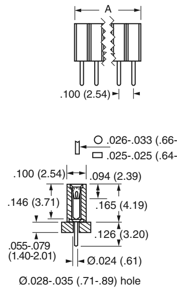

Fig. 3 — Socket Strip

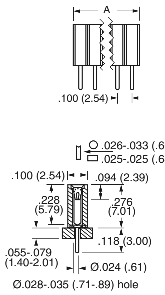

Fig. 4 — Low Profile Pin Header

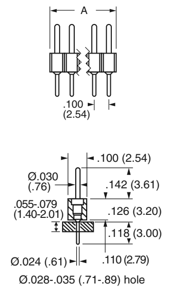

Fig. 5 — Pin Header Strip

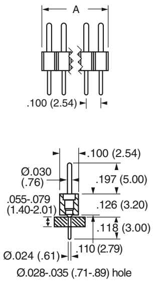

Fig.	No. of Pins	Dimension A Inch (mm)	Plating Sleeve/Pin	Plating Clip	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Mill-Max Part No.	Digi-Key Part No.	Base Price	Pin Adder
Strip Sockets, Solder Tail												
1	64	6.4 (162.56)	200μ" Sn/Pb	30μ" Au	ED7064-ND	3.92	35.09	288.96	310-93-164-41-001000	ED70xx-ND	1.64	.04
			200μ" Sn		ED6264-ND◆	4.01	35.90	295.68	310-43-164-41-001000	ED62xx-ND◆	1.10	.05
Single Row Sockets, Straight Solder Tail												
1	64	6.4 (162.56)	10μ" Au	30μ" Au	ED7464-ND	6.26	56.05	461.58	310-13-164-41-001000	ED74xx-ND	2.23	.07
Single Row Sockets, Low Profile												
2	36	3.6 (91.44)	200μ" Sn/Pb	30μ" Au	ED7636-ND	4.68	41.90	345.03	801-93-036-10-012000	ED76xx-ND	1.81	.09
			200μ" Sn		ED6536-ND◆	4.92	44.06	362.88	801-43-036-10-012000	ED65xx-ND◆	1.72	.10
Single Row Pin Sockets, Straight Solder Tail												
3	50	5.0 (127.00)	200μ" Sn/Pb	30μ" Au	ED7150-ND	6.91	61.84	509.25	801-93-050-10-001000	ED71xx-ND	2.42	.10
			200μ" Sn		ED6350-ND◆	7.26	64.92	534.66	801-43-050-10-001000	ED63xx-ND◆	2.31	.11
Single Row Pin Headers, Low Profile												
4	64	6.4 (162.56)	10μ" Au	—	ED7564-ND	7.57	67.70	557.55	800-10-064-10-002000	ED75xx-ND	2.35	.09
Single Row Pin Headers, Straight Solder Tail												
5	64	6.4 (162.56)	10μ" Au	—	ED7264-ND	7.94	71.02	584.85	800-10-064-10-001000	ED72xx-ND	2.75	.09

◆ *RoHS Compliant*

Single In-Line Sockets — Solderless Press Fit, Compliant Tail

Features:
Unique compliant tail pins conforms to .040" ±.003" (1.02mm ±.08mm) finished hole diameter without stressing inner layers.

Application of Compliant Tail Pins:
Mill-Max's patented (Patent No. 4,799,904) compliant tail features precision machined pins that are hollow and slotted to conform to a .040" ±.003" (1.02mm ±.08mm) diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering, and since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

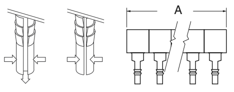

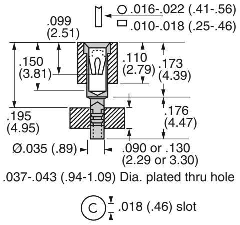

No. of Pins	Dim. A Inch (mm)	Plating Sleeve/Pin	Plating Clip	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Mill-Max Part No.	Digi-Key Part No.	Base Price	Pin Adder
64	6.4 (162.56)	200μ" Sn/Pb	30μ" Au	ED7364-ND	8.34	74.64	614.67	346-93-164-41-013000	ED73xx-ND	3.17	.09
64	6.4 (162.56)	200μ" Sn	30μ" Au	ED6464-ND◆	8.64	77.27	636.30	346-43-164-41-013000	ED64xx-ND◆	2.86	.10

◆ *RoHS Compliant*

HOW TO ORDER — 4 EASY STEPS

How do I order an ED70xx header with 36 pins? Call Digi-Key for pricing, or determine the cost yourself, following the steps below.

ED □□□□ - ND
Series
Number of Desired Pins

How to Order — In 4 Easy Steps	***Our Example***	***Your Digi-Key Part Number***
Step 1. Select needed "Digi-Key Part Number" and number of pins desired	ED7036-ND	ED ____-ND
Step 2. Begin with appropriate "Base Price" of your selected Part Number (refer to chart)..................	1.64 *(1 pin – Base Price)*	____
Step 3. Multiply the number of pins you desire (minus one) by "Pin Adder" of your selected Part Number (refer to chart)...	35 x .04 = 1.40 *(35 pins – Pin Adder)*	__ x __ = ___
Step 4. Add Step 2 & Step 3 together for Final Cost!..	Your Cost = $3.04 *(36 pins – Total)*	Your Cost = $___

Note: **For quantities of 10 or more, call Digi-Key.**

Pin Receptacles and P.C. Pins

Fig. 1
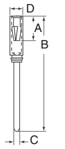

Fig. 2
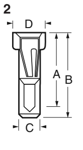

Fig. 3
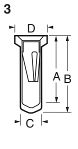

Fig. 4
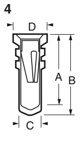

Fig. 5
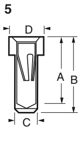

Fig. 6
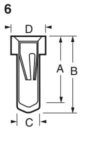

Fig. 7 *NEW!*
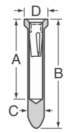

Fig. 8
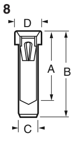

Fig. 9
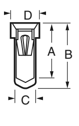

Fig. 10
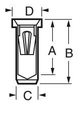

Fig. 11
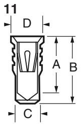

Fig. 12
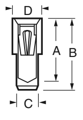

Fig. 13
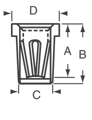

Fig. 14
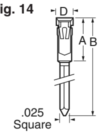

Fig. 15
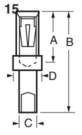

Fig. 16
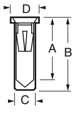

Fig. 17
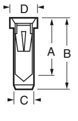

Fig. 18
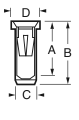

Fig. 19
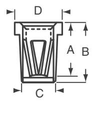

Fig. 20 *NEW!*
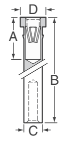

Fig. 21 *NEW!*
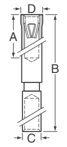

Fig. 22
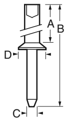

Fig. 23
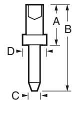

Fig. 24
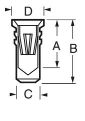

Fig. 25
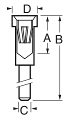

Fig. 26 *NEW!*
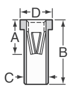

Fig. 27
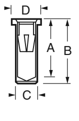

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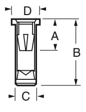

Fig. 29
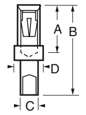

Fig. 30
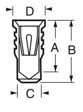

Fig. 31
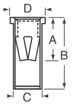

Fig. 32
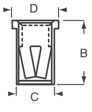

Fig. 33
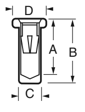

Fig. 34
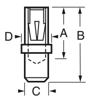

Fig. 35
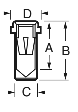

Fig. 36
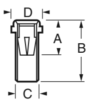

Fig.	Mounting Hole Dia. Inch (mm)	Dimensions - Inch (mm) A	B	øC	øD	Digi-Key Part No.	Pricing 10	100	1,000
Pin Receptacles									
.008” ~ .013” (.20 mm ~ .33 mm) Pin Diameter — RoHS Compliant									
1	.027 (0.69)	.053 (1.35)	.250 (6.35)	.012 (.30)	.026 (.66)	ED5062-ND	14.80	111.03	740.20
.015” ~ .021” (.38mm ~ .53mm) Pin Diameter									
2	.036 (.91)	.138 (3.51)	.155 (3.94)	.034 (.86)	.058 (1.47)	ED5036-ND	2.48	18.63	124.20
	.036 (.91)	.138 (3.51)	.155 (3.94)	.034 (.86)	.058 (1.47)	ED90094-ND◆	2.76	20.70	138.00
3	.040 (1.02)	.120 (3.05)	.136 (3.45)	.038 (.97)	.055 (1.40)	ED5037-ND	.98	7.35	49.00
	.040 (1.02)	.150 (3.81)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED5038-ND	1.00	7.50	50.00
	.040 (1.02)	.120 (3.05)	.136 (3.45)	.038 (.97)	.055 (1.40)	ED90095-ND◆	2.42	18.15	121.00
	.040 (1.02)	.150 (3.81)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED90096-ND◆	1.28	9.57	63.80
4	.041 (1.04)	.124 (3.15)	.140 (3.56)	.038 (.97)	.055 (1.40)	ED5039-ND	1.84	13.77	91.80
	.041 (1.04)	.154 (3.91)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED5040-ND	1.86	13.95	93.00
	.041 (1.04)	.124 (3.15)	.140 (3.56)	.038 (.97)	.055 (1.40)	ED90097-ND◆	3.30	24.75	165.00
	.041 (1.04)	.154 (3.91)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED90098-ND◆	3.34	25.08	167.20
5	.040 (1.02)	.127 (3.23)	.146 (3.71)	.038 (.97)	.055 (1.40)	ED5046-ND	2.32	17.40	116.00
	.040 (1.02)	.127 (3.23)	.146 (3.71)	.038 (.97)	.055 (1.40)	ED90104-ND◆	2.60	19.53	130.20
6	.040 (1.02)	.140 (3.56)	.160 (4.06)	.038 (.97)	.056 (1.42)	ED5041-ND	2.78	20.85	139.00
	.040 (1.02)	.140 (3.56)	.160 (4.06)	.038 (.97)	.056 (1.42)	ED90099-ND◆	3.08	23.07	153.80
7	.040 (1.02)	.195 (4.95)	.234 (5.94)	.038 (0.97)	.055 (1.40)	ED90329-ND§◆	3.14	23.52	156.80
	.040 (1.02)	.195 (4.95)	.295 (7.49)	.038 (0.97)	.055 (1.40)	ED90330-ND§◆	3.23	24.24	161.60
.015” ~ .025” (.38mm ~ .64mm) Pin Diameter									
8	.051 (1.30)	.205 (5.21)	.248 (6.30)	.049 (1.24)	.063 (1.60)	ED5045-ND	2.54	19.05	127.00
	.051 (1.30)	.205 (5.21)	.248 (6.30)	.049 (1.24)	.063 (1.60)	ED90103-ND◆	4.30	32.28	215.20
9	.053 (1.35)	.135 (3.43)	.160 (4.06)	.051 (1.30)	.072 (1.83)	ED5042-ND	2.92	21.90	146.00
	.053 (1.35)	.135 (3.43)	.160 (4.06)	.051 (1.30)	.072 (1.83)	ED90100-ND◆	3.34	25.02	166.80
10	.057 (1.45)	.142 (3.61)	.161 (4.09)	.055 (1.40)	.072 (1.83)	ED5044-ND	1.33	9.96	66.40
	.057 (1.45)	.142 (3.61)	.161 (4.09)	.055 (1.40)	.072 (1.83)	ED90102-ND◆	1.76	13.17	87.80
11	.057 (1.45)	.150 (3.81)	.170 (4.32)	.053 (1.35)	.072 (1.83)	ED5004-ND	1.87	14.04	93.60
	.057 (1.45)	.150 (3.81)	.170 (4.32)	.053 (1.35)	.072 (1.83)	ED90069-ND◆	3.52	26.37	175.80
12	.061 (1.55)	.150 (3.81)	.180 (4.57)	.058 (1.47)	.080 (2.03)	ED5043-ND	1.57	11.79	78.60
	.061 (1.55)	.150 (3.81)	.180 (4.57)	.058 (1.47)	.080 (2.03)	ED90101-ND◆	2.10	15.75	105.00
13	.057 (1.45)	.089 (2.26)	.100 (2.54)	.043 (1.09)	.068 (1.73)	ED90282CT-ND◆*	24.04	180.27	1201.80
	.057 (1.45)	.089 (2.26)	.100 (2.54)	.043 (1.09)	.068 (1.73)	ED90282TR-ND◆†	4957.43/5,500		
14	.055 (1.40)	.200 (5.08)	.700 (17.78)	—	.072 (1.83)	ED5001-ND	3.35	25.14	167.60
	.055 (1.40)	.200 (5.08)	.560 (14.22)	—	.072 (1.83)	ED5002-ND	3.05	22.86	152.40
	.055 (1.40)	.200 (5.08)	.460 (11.68)	—	.072 (1.83)	ED5003-ND	2.88	21.63	144.20
	.055 (1.40)	.200 (5.08)	.700 (17.78)	—	.072 (1.83)	ED90066-ND◆	4.26	31.95	213.00
	.055 (1.40)	.200 (5.08)	.560 (14.22)	—	.072 (1.83)	ED90067-ND◆	3.84	28.80	192.00
	.055 (1.40)	.200 (5.08)	.460 (11.68)	—	.072 (1.83)	ED90068-ND◆	3.60	27.00	180.00
.022” ~ .032” (.56mm ~ .81mm) Pin Diameter									
15	.060 (1.52)	.170 (4.32)	.294 (7.47)	.058 (1.47)	.094 (2.39)	ED5015-ND	4.59	34.44	229.60
	.060 (1.52)	.170 (4.32)	.294 (7.47)	.058 (1.47)	.094 (2.39)	ED90080-ND◆	6.70	50.28	335.20
16	.063 (1.60)	.233 (5.92)	.259 (6.58)	.060 (1.52)	.077 (1.96)	ED90073-ND◆	4.74	35.55	237.00
	.063 (1.60)	.233 (5.92)	.259 (6.58)	.060 (1.52)	.077 (1.96)	ED5008-ND	2.79	20.94	139.60
17	.071 (1.80)	.210 (5.33)	.250 (6.35)	.068 (1.73)	.093 (2.36)	ED5006-ND	2.62	19.65	131.00
	.071 (1.80)	.210 (5.33)	.250 (6.35)	.068 (1.73)	.093 (2.36)	ED90071-ND◆	4.62	34.68	231.20
18	.076 (1.93)	.185 (4.70)	.206 (5.23)	.073 (1.85)	.090 (2.29)	ED5007-ND	2.54	19.08	127.20
	.076 (1.93)	.185 (4.70)	.206 (5.23)	.073 (1.85)	.090 (2.29)	ED90072-ND◆	3.23	24.24	161.60
.022” ~ .034” (.56mm ~ .86mm) Pin Diameter — RoHS Compliant									
19	.067 (1.70)	.089 (2.26)	.100 (2.54)	.051 (1.30)	.078 (1.98)	ED90283CT-ND*	25.36	190.17	1267.80
	.067 (1.70)	.089 (2.26)	.100 (2.54)	.051 (1.30)	.078 (1.98)	ED90283TR-ND†	5705.10/6,000		
20	.067 (1.70)	.140 (3.56)	.352 (8.94)	.062 (1.57)	.085 (2.16)	ED90320-ND§	6.49	48.69	324.60
21	18‡	.280 (7.11)	.665 (16.89)	.067 (1.70)	.075 (1.91)	ED90321-ND§	10.74	80.58	537.20
.025” (.64mm) Pin Diameter — RoHS Compliant									
22	.035 (.89)	.047 (1.19)	.260 (6.60)	.025 (.64)	.062 (1.57)	ED5055-ND	1.81	13.56	90.40
	.035 (.89)	.078 (1.98)	.291 (7.39)	.025 (.64)	.062 (1.57)	ED5056-ND	1.89	14.16	94.40
23	.043 (1.09)	.076 (1.93)	.201 (5.11)	.025 (.64)	.062 (1.57)	ED5053-ND	1.78	13.35	89.00
	.043 (1.09)	.107 (2.72)	.232 (5.89)	.025 (.64)	.062 (1.57)	ED5054-ND	1.05	7.89	52.60
.025” ~ .037” (.64mm ~ .94mm) Pin Diameter									
24	.061 (1.55)	.165 (4.19)	.200 (5.08)	.057 (1.45)	.078 (1.98)	ED5005-ND	2.88	21.60	144.00
	.061 (1.55)	.165 (4.19)	.200 (5.08)	.057 (1.45)	.078 (1.98)	ED90070-ND◆	3.49	26.16	174.40
25	.042 (1.07)	.180 (4.57)	.320 (8.13)	.040 (1.02)	.078 (1.98)	ED5009-ND	2.80	21.00	140.00
	.042 (1.07)	.180 (4.57)	.397 (10.08)	.040 (1.02)	.078 (1.98)	ED5010-ND	4.08	30.60	204.00
	.042 (1.07)	.180 (4.57)	.320 (8.13)	.040 (1.02)	.078 (1.98)	ED90074-ND◆	4.72	35.37	235.80
	.042 (1.07)	.180 (4.57)	.397 (10.08)	.040 (1.02)	.078 (1.98)	ED90075-ND◆	4.87	36.51	243.40
26	.059 (1.49)/ .061 (1.54)◊	.083 (2.11)	.095 (2.41)	.056 (1.42)	.076 (1.93)	ED90331-ND§◆	5.41	40.59	270.60
		.083 (2.11)	.105 (2.67)	.058 (1.47)	.076 (1.93)	ED90332-ND§◆	5.42	40.68	271.20
		.083 (2.11)	.155 (3.94)	.058 (1.47)	.076 (1.93)	ED90333-ND§◆	3.92	29.37	195.80
.032” ~ .046” (.81mm ~ 1.17mm) Pin Diameter									
27	.075 (1.91)	.180 (4.57)	.206 (5.23)	.072 (1.83)	.090 (2.29)	ED5016-ND	2.58	19.32	128.80
	.075 (1.91)	.180 (4.57)	.206 (5.23)	.072 (1.83)	.090 (2.29)	ED90081-ND◆	3.32	24.93	166.20
28	.075 (1.91)	.125 (3.18)	.221 (5.61)	.072 (1.83)	.090 (2.29)	ED5018-ND	4.58	34.38	229.20
	.075 (1.91)	.125 (3.18)	.221 (5.61)	.072 (1.83)	.090 (2.29)	ED90083-ND◆	5.36	40.20	268.00
29	.067 (1.70)	.200 (5.08)	.324 (8.23)	.065 (1.65)	.125 (3.18)	ED5021-ND	5.19	38.94	259.60
	.067 (1.70)	.200 (5.08)	.324 (8.23)	.065 (1.65)	.125 (3.18)	ED90085-ND◆	7.67	57.51	383.40
30	.076 (1.93)	.180 (4.57)	.206 (5.23)	.071 (1.80)	.090 (2.29)	ED5017-ND	3.00	22.50	150.00
	.076 (1.93)	.180 (4.57)	.206 (5.23)	.071 (1.80)	.090 (2.29)	ED90082-ND◆	3.77	28.26	188.40
31	.077 (1.96)	.125 (3.18)	.206 (5.23)	.064 (1.63)	.090 (2.29)	ED90280-ND◆	12.66	94.98	633.20
32	.077 (1.96)	—	.140 (3.56)	.064 (1.63)	.090 (2.29)	ED90281CT-ND◆*	17.94	134.55	897.00
	.077 (1.96)	—	.140 (3.56)	.064 (1.63)	.090 (2.29)	ED90281TR-ND◆†	1345.50/2,000		
33	.091 (2.31)	.220 (5.59)	.253 (6.43)	.088 (2.24)	.120 (3.05)	ED5013-ND	3.49	26.19	174.60
	.091 (2.31)	.220 (5.59)	.253 (6.43)	.088 (2.24)	.120 (3.05)	ED90078-ND◆	5.78	43.32	288.80
34	.089 (2.26)	.220 (5.59)	.317 (8.05)	.085 (2.16)	.125 (3.18)	ED5014-ND	6.06	45.48	303.20
	.089 (2.26)	.220 (5.59)	.317 (8.05)	.085 (2.16)	.125 (3.18)	ED90079-ND◆	7.30	54.78	365.20
35	.087 (2.21)	.195 (4.95)	.236 (5.99)	.085 (2.16)	.125 (3.18)	ED5012-ND	4.61	34.56	230.40
	.087 (2.21)	.195 (4.95)	.236 (5.99)	.085 (2.16)	.125 (3.18)	ED90077-ND◆	5.60	42.00	280.00
36	.087 (2.21)	.130 (3.30)	.236 (5.99)	.085 (2.16)	.125 (3.18)	ED5011-ND	3.40	25.50	170.00
	.087 (2.21)	.130 (3.30)	.236 (5.99)	.085 (2.16)	.125 (3.18)	ED90076-ND◆	4.44	33.27	221.80
37	.089 (2.26)	.131 (3.33)	.250 (6.35)	.080 (2.03)	.110 (2.79)	ED5028-ND	4.66	34.92	232.80
	.089 (2.26)	.131 (3.33)	.250 (6.35)	.080 (2.03)	.110 (2.79)	ED90088-ND◆	5.79	43.44	289.60
38	20‡	.200 (5.08)	.530 (13.46)	.105 (2.67)	.102 (2.59)	ED90322-ND§◆	10.68	80.13	534.20
39	.082 (2.08)	.220 (5.59)	.375 (9.52)	.030 (0.76)	.090 (2.29)	ED90326-ND§◆	4.34	32.55	217.00
.037” ~ .043” (.94mm ~ 1.09mm) Pin Diameter									
40	.071 (1.80)	.127 (3.23)	.150 (3.81)	.069 (1.75)	.090 (2.29)	ED5019-ND	2.69	20.16	134.40
	.071 (1.80)	.127 (3.23)	.150 (3.81)	.069 (1.75)	.090 (2.29)	ED90084-ND◆	3.21	24.09	160.60
41	.070 (1.78)	.083 (2.11)	.095 (2.41)	.068 (1.73)	.088 (2.24)	ED90327-ND§◆	5.48	41.13	274.20
.040” ~ .050” (1.02mm ~ 1.27mm) Pin Diameter									
42	.102 (2.59)	.260 (6.60)	.290 (7.37)	.100 (2.54)	.118 (3.00)	ED5024-ND	3.73	27.99	186.60
	.102 (2.59)	.260 (6.60)	.290 (7.37)	.100 (2.54)	.118 (3.00)	ED90087-ND◆	6.20	46.47	309.80
43	.103 (2.62)	.260 (6.60)	.290 (7.37)	.088 (2.24)	.118 (3.00)	ED5023-ND	5.30	39.75	265.00
	.103 (2.62)	.260 (6.60)	.290 (7.37)	.088 (2.24)	.118 (3.00)	ED90086-ND◆	6.52	48.90	326.00
44	.083 (2.11)	.093 (2.36)	.125 (3.18)	.068 (1.73)	.100 (2.54)	ED90285CT-ND◆*	30.99	232.41	1549.40
	.083 (2.11)	.093 (2.36)	.125 (3.18)	.068 (1.73)	.100 (2.54)	ED90285TR-ND◆†	5229.23/4,500		
.040” (1.02mm) Pin Diameter									
45	.043 (1.09)	.047 (1.19)	.221 (5.61)	.040 (1.02)	.070 (1.78)	ED5047-ND	1.98	14.85	99.00

* Cut Tape † Tape and Reel ‡ Gage ◊ Minimum/Maximum § ***NEW!*** ◆ ***RoHS Compliant*** *(Continued)*

Fig. 37

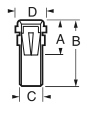

Fig. 38 ***NEW!***

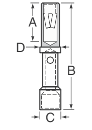

Fig. 39 ***NEW!***

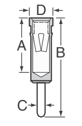

Fig. 40

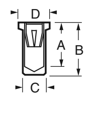

Fig. 41 ***NEW!***

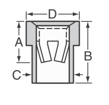

Fig. 42

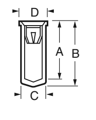

Fig. 43

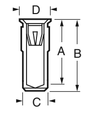

Fig. 44

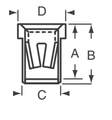

Fig. 45

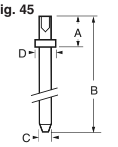

Fig. 46

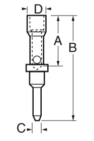

Fig. 47

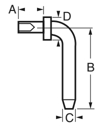

Fig. 48

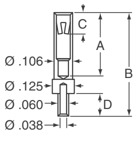

Fig. 49

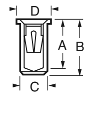

Fig. 50

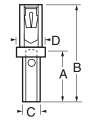

Fig. 51 ***NEW!***

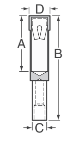

Fig. 52

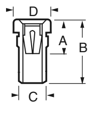

Fig. 53

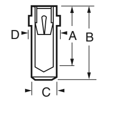

Fig. 54

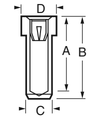

Fig. 55

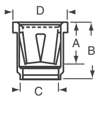

Fig. 56 ***NEW!***

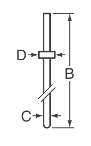

Fig. 57 ***NEW!***

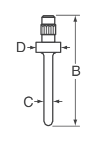

Fig. 58 ***NEW!***

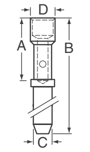

Fig. 59 ***NEW!***

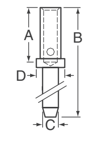

Fig. 60 ***NEW!***

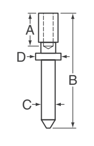

Fig. 61 ***NEW!***

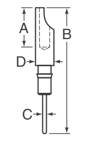

Fig. 62 ***NEW!***

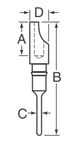

Fig. 63 ***NEW!***

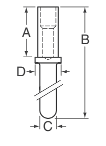

Fig. 64

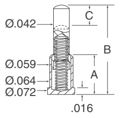

Fig. 65

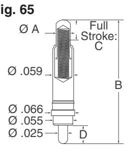

Fig. 66

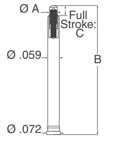

Fig. 67

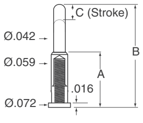

Fig. 68

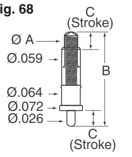

Fig. 69

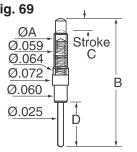

Fig. 70

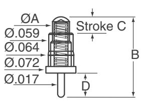

Fig. 71

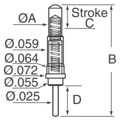

Fig.	Mounting Hole Dia. Inch (mm)	Dimensions - Inch (mm)				Digi-Key Part No.	Pricing		
		A	B	øC	øD		10	100	1,000
45	.043 (1.09)	.102 (2.59)	.252 (6.40)	.040 (1.02)	.070 (1.78)	ED5048-ND	2.07	15.51	103.40
	.043 (1.09)	.102 (2.59)	.290 (7.37)	.040 (1.02)	.070 (1.78)	ED5050-ND	2.19	16.44	109.60
	.043 (1.09)	.102 (2.59)	.402 (10.21)	.040 (1.02)	.070 (1.78)	ED5052-ND	1.75	13.11	87.40
46	—	.282 (7.16)	.588 (14.94)	.040 (1.02)	.105 (2.67)	ED5061-ND◆	8.00	60.03	400.20
47	.043 (1.09)	.082 (2.08)	.257 (6.53)	.040 (1.02)	.070 (1.78)	ED5058-ND◆	4.35	32.64	217.60
.045" ~ .065" (1.14mm ~ 1.65mm) Pin Diameter — RoHS Compliant									
48	.038 (.97)	.400 (10.16)	.630 (16.00)	.108 (2.74)	.130 (3.30)	ED90279-ND	12.61	94.56	630.40
.048" ~ .064" (1.22mm ~ 1.63mm) Pin Diameter									
49	.102 (2.59)	.180 (4.57)	.213 (5.41)	.098 (2.49)	.120 (3.05)	ED5029-ND	4.31	32.31	215.40
	.102 (2.59)	.180 (4.57)	.213 (5.41)	.098 (2.49)	.120 (3.05)	ED90089-ND◆	5.38	40.32	268.80
50	—	.267 (6.78)	.530 (13.46)	.103 (2.62)	.141 (3.58)	ED5032-ND	10.24	76.80	512.00
	—	.267 (6.78)	.530 (13.46)	.103 (2.62)	.141 (3.58)	ED90091-ND◆	12.75	95.64	637.60
.065" ~ .082" (1.65mm ~ 2.08mm) Pin Diameter									
51	18‡	.375 (9.52)	.690 (17.53)	.100 (2.54)	.144 (3.66)	ED90323-ND§◆	15.87	119.01	793.40
52	.108 (2.74)	.134 (3.40)	.250 (6.35)	.102 (2.59)	.136 (3.45)	ED5031-ND	6.26	46.98	313.20
	.108 (2.74)	.134 (3.40)	.250 (6.35)	.102 (2.59)	.136 (3.45)	ED90090-ND◆	6.77	50.76	338.40
53	.144 (3.66)	.340 (8.64)	.412 (10.46)	.142 (3.61)	.188 (4.78)	ED5035-ND	9.07	68.01	453.40
	.144 (3.66)	.340 (8.64)	.412 (10.46)	.142 (3.61)	.188 (4.78)	ED90093-ND◆	13.06	97.95	653.00
.084" ~ .102" (2 .13mm ~ 2.59mm) Pin Diameter									
54	.144 (3.66)	.415 (10.54)	.465 (11.81)	.142 (3.61)	.188 (4.78)	ED5034-ND	10.46	78.48	523.20
	.144 (3.66)	.415 (10.54)	.465 (11.81)	.142 (3.61)	.188 (4.78)	ED90092-ND◆	15.01	112.56	750.40
55	.139 (3.53)	.122 (3.10)	.165 (4.19)	.104 (2.64)	.156 (3.96)	ED90284-ND◆	38.34	287.52	1916.80
NEW! .020" (0.51mm) — RoHS Compliant NEW!									
56	.024 (0.61)	—	.545 (13.84)	.020 (0.51)	.046 (1.17)	ED90324-ND	1.17	8.76	58.40
	.024 (0.61)	—	.315 (8.00)	.020 (0.51)	.045 (1.14)	ED90325-ND	1.50	11.28	75.20
NEW! .023" (0.58mm) — RoHS Compliant NEW!									
57	.026 (0.66)	—	.190 (4.83)	.018 (0.46)	.045 (1.14)	ED90328-ND	.66	4.92	32.80
NEW! .049" (1.24mm) — RoHS Compliant NEW!									
58	20‡	.282 (7.16)	.506 (12.85)	.080 (2.03)	.105 (2.67)	ED90313-ND	7.97	59.76	398.40
	20‡	.282 (7.16)	.681 (17.30)	.080 (2.03)	.105 (2.67)	ED90314-ND	9.16	68.70	458.00
	20‡	.282 (7.16)	.806 (20.47)	.080 (2.03)	.105 (2.67)	ED90315-ND	10.05	75.36	502.40
NEW! .067" (1.70mm) — RoHS Compliant NEW!									
59	16‡	.267 (6.78)	.496 (12.60)	.080 (2.03)	.142 (3.61)	ED90317-ND	9.01	67.59	450.60
	16‡	.267 (6.78)	.671 (17.04)	.080 (2.03)	.142 (3.61)	ED90318-ND	10.68	80.07	533.80
	16‡	.267 (6.78)	.796 (20.22)	.080 (2.03)	.142 (3.61)	ED90319-ND	11.98	89.88	599.20
NEW! .035" (0.89mm) — RoHS Compliant NEW!									
60	—	.120 (3.05)	.430 (10.92)	.049 (1.24)	.093 (2.36)	ED90336-ND	3.76	28.20	188.00

Fig.	Mounting Hole Dia. Inch (mm)	Dimensions - Inch (mm)				Digi-Key Part No.	Pricing		
		A	B	øC	øD		10	100	1,000
NEW! .038" (0.97mm) — RoHS Compliant NEW!									
61	.057 (1.45)	.150 (3.81)	.491 (12.47)	.020 (.51)	.072 (1.83)	ED90334-ND	4.56	34.17	227.80
NEW! .039" (0.99mm) — RoHS Compliant NEW!									
62	.057 (1.45)	.126 (3.20)	.417 (10.59)	.020 (0.51)	.072 (1.83)	ED90335-ND	2.70	20.22	134.80
NEW! .073" (1.85mm) — RoHS Compliant NEW!									
63	18‡	.155 (3.94)	.740 (18.80)	.080 (2.03)	.125 (3.18)	ED90312-ND	9.27	69.54	463.60

* Cut Tape † Tape and Reel ‡ Gage ◊ Minimum/Maximum § ***NEW!*** ◆ ***RoHS Compliant***

Fig.	Dimensions - Inch (mm)				Digi-Key Part No.	Pricing		
	A	B	C	D		10	100	1,000
Modular Spring Contacts — RoHS Compliant								
64	.098 (2.49)	.137 (3.48)	.039 (.991)	—	ED9000-ND	4.11	33.85	229.71
	.106 (2.69)	.177 (4.50)	.055 (1.40)	—	ED9001-ND	4.00	32.91	223.30
	.106 (2.69)	.197 (5.00)	.055 (1.40)	—	ED9002-ND	4.01	33.03	224.15
	.106 (2.69)	.217 (5.51)	.055 (1.40)	—	ED9003-ND	4.03	33.16	225.01
	.106 (2.69)	.236 (5.99)	.055 (1.40)	—	ED9004-ND	4.10	33.79	229.28
65	.042 (1.07)	.348 (8.84)	.055 (1.40)	.052 (1.32)	ED9008-ND	5.10	42.00	285.00
66	.042 (1.07)	.692 (17.58)	.054 (1.37)	—	ED9009-ND	9.11	75.05	509.30
67	.198 (5.03)	.255 (6.48)	.055 (1.40)	—	ED5063-ND	7.23	54.24	361.60
	.198 (5.03)	.275 (6.99)	.055 (1.40)	—	ED5064-ND	7.29	54.66	364.40
	.198 (5.03)	.295 (7.49)	.055 (1.40)	—	ED5065-ND	7.45	55.89	372.60
	.198 (5.03)	.315 (8.00)	.055 (1.40)	—	ED5066-ND	7.63	57.21	381.40
	.198 (5.03)	.335 (8.51)	.055 (1.40)	—	ED5067-ND	9.79	73.44	489.60
	.198 (5.03)	.350 (8.89)	.055 (1.40)	—	ED5068-ND	9.94	74.55	497.00
	.198 (5.03)	.370 (9.40)	.055 (1.40)	—	ED5069-ND	9.99	74.94	499.60
	.198 (5.03)	.390 (9.91)	.055 (1.40)	—	ED5070-ND	10.05	75.39	502.60
	.198 (5.03)	.410 (10.41)	.055 (1.40)	—	ED5071-ND	10.18	76.32	508.80
	.198 (5.03)	.430 (10.92)	.055 (1.40)	—	ED5072-ND	10.27	77.01	513.40
68	.042 (1.07)	.297 (7.54)	.0275 (0.70)	—	ED5073-ND‡	10.78	80.88	539.20
69	.042 (1.07)	.520 (13.21)	.055 (1.40)	.200 (5.08)	ED8186-ND	6.97	57.37	389.31
70	.042 (1.07)	.206 (5.23)	.039 (0.99)	.069 (1.75)	ED8180-ND	4.96	40.85	277.16
	.042 (1.07)	.246 (6.25)	.055 (1.40)	.069 (1.75)	ED8181-ND	4.24	34.90	236.84
	.042 (1.07)	.266 (6.76)	.055 (1.40)	.069 (1.75)	ED8182-ND	4.24	34.94	237.12
	.042 (1.07)	.286 (7.26)	.055 (1.40)	.069 (1.75)	ED8183-ND	4.26	35.11	238.26
	.042 (1.07)	.305 (7.75)	.055 (1.40)	.069 (1.75)	ED8184-ND	4.35	35.78	242.82
71	.042 (1.07)	.212 (5.38)	.090 (2.29)	.115 (2.92)	ED8185-ND	6.26	51.58	349.98

‡ Double Action

Zig Zag Socket

Double row staggered strips will accommodate Single-in-Line Zig-Zag memory packages on high density boards, left stackable.

Insertion Characteristics: 4-finger low force

Plating: Sleeve (Pin) – 200µ" Sn.; Contact (Clip) – 30µ" Au

No. of Pins	Insulator Body	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Mill-Max Part No.
20	Left Stackable	ED2220-ND	2.57	1.79	1.44	1.24	1.03	410-93-220-10-001

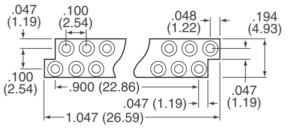

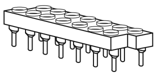

ARIES ELECTRONICS, INC.

I.C. Sockets

Dual Leaf Tin Plated Wire Wrap

Contacts: Phosphor bronze CA510
Contact Finish: Tin plating 200µ" minimum

No. of Pins	Digi-Key Part No.	Pricing 1	25	100	500	1,000	2,500
8	C8108-ND	1.89	39.88	154.12	634.63	1178.60	1087.94/M
14	C8114-ND	2.66	56.32	217.69	896.36	1664.67	1536.62/M
16	C8116-ND	2.95	62.37	241.07	992.65	1843.49	1701.68/M
18	C8118-ND◆	3.07	64.96	251.06	1033.79	1919.89	1772.21/M
20	C8120-ND	3.77	79.70	308.04	1268.38	2355.57	2174.37/M
24	C8124-ND	4.75	100.49	388.39	1599.26	2970.06	2741.60/M
28	C8128-ND	5.41	114.35	441.96	1819.85	3379.73	3119.75/M
40	C8140-ND	7.78	164.62	636.27	2619.92	4865.57	4491.30/M

◆ ***RoHS Compliant***

Dual Leaf Gold Inlay Wire Wrap

Contacts: Copper alloy CA725
Contact Finish: Gold inlay 50µ" over 50µ" nickel interliner

No. of Pins	Digi-Key Part No.	Pricing 1	25	100	500	1,000	2,500
8	C9108-ND	2.21	46.81	180.91	744.92	1383.43	1277.02/M
14	C9114-ND	3.65	77.11	298.04	1227.24	2279.16	2103.84/M
16	C9116-ND	4.18	88.39	341.62	1406.69	2612.42	2411.47/M
18	C9118-ND	4.63	97.90	378.40	1558.12	2893.66	2671.07/M
20	C9120-ND	5.12	108.30	418.58	1723.56	3200.90	2954.68/M
22	C9122-ND	5.57	117.81	455.36	1875.00	3482.14	3214.29/M
24	C9124-ND	6.14	129.97	502.34	2068.45	3841.41	3545.92/M
28	C9128-ND	7.21	152.46	589.29	2426.47	4506.30	4159.67/M
40	C9140-ND	9.95	210.49	813.56	3349.96	6221.36	5742.80/M

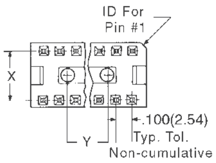

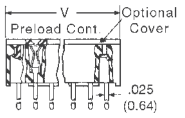

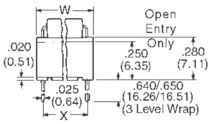

Pins	"V"±.25 Inch (mm)	"W"Max. Inch (mm)	"X"±.13 Inch (mm)	"Y"±.25 Inch (mm)
8	.465 (11.81)	.400 (10.16)	.300 (7.62)	n/a
14	.765 (19.43)	.400 (10.16)	.300 (7.62)	.300 (7.62)
16	.865 (21.97)	.400 (10.16)	.300 (7.62)	.400 (10.16)
18	.965 (24.51)	.400 (10.16)	.300 (7.62)	.400 (10.16)
20	1.065 (27.05)	.400 (10.16)	.300 (7.62)	.400 (10.16)
22	1.180 (29.97)	.500 (12.70)	.400 (10.16)	.500 (12.70)
24	1.280 (32.51)	.700 (17.78)	.600 (15.24)	.500 (12.70)
28	1.480 (37.59)	.700 (17.78)	.600 (15.24)	.500 (12.70)
40	2.080 (52.83)	.700 (17.78)	.600 (15.24)	.800 (20.32)

Features: • Universal mounting and packaging capabilities • Contacts accommodate .015" (.38mm) through .021" (.53mm) rectangular or round dual-in-line leads • Wire wrap posts held to true position of .015" (.38mm), providing a true position of .020" (.51mm) on boards for efficient automatic wire wrapping **Specifications:** Socket Body: UL94V-0 glass-filled polyester

Notes: Sockets meet requirements of Texas Instruments test specification TS-0003 and test report TR-0001. Accommodates standard (C) leads up to .001" x .018" (.03mm x .46mm). Sockets are capable of being automatically or simultaneously wire wrapped.

4-Pin Oscillator Sockets

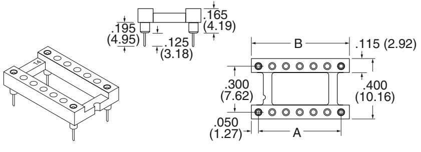

Specifications: • Socket Body: Blue UL94V-0 glass-filled polyester thermoplastic (PBT) • Pin Body Plating: 200µ minimum tin per MIL-T-10727 over 100µ minimum nickel per QQ-N-290 • Contact Plating: 10µ minimum gold per MIL-G-45204 over 50µ minimum nickel per QQ-N-290 • Contact Current Rating: 3A • Operating Temperature: 105°C • Insertion Force: 180 grams/pin; Withdrawal Force: 90 grams/pin; Normal Force: 140 grams/pin; based on a .018" (.46mm) diameter test lead • Accepts leads .015"-.025" (.38mm-.64mm) in diameter, .100"-.146" (2.54mm-3.71mm) in length

Size	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
Full	.600 (15.24)	.700 (17.78)	A462-ND	.55	.47	.38	1107741
Half	.300 (7.62)	.400 (10.16)	A463-ND	.55	.47	.38	1108800

Open Frame Machine Pin Collet Sockets

Specifications: • Contacts: Collet: Beryllium copper with 10µ" gold plating; Body: Brass • Collet accepts .014"-.022" (.38mm-.56mm) diameter round leads • Platform: Glass-filled thermoplastic, UL94V-0 • Compatible with automatic insertion equipment • Collet is 10µ" gold plated

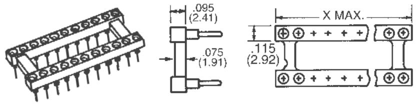

Pin Centers Inch (mm)	No. of Pins	Dim. "X" Inch (mm)	Digi-Key Part No.	Pricing 1	25	100
.300 (7.62)	8	.400 (10.16)	A400-ND	.59	13.50	30.61
.300 (7.62)	14	.700 (17.78)	A401-ND	.78	18.00	40.82
.300 (7.62)	16	.800 (20.32)	A402AE-ND	.89	20.55	46.60
.300 (7.62)	18	.900 (22.86)	A403AE-ND	1.10	25.35	57.48
.300 (7.62)	20	1.000 (25.40)	A404AE-ND	.99	22.95	52.04
.300 (7.62)	24	1.200 (30.48)	A405-ND	1.24	28.73	65.14
.400 (10.16)	22	1.100 (27.97)	A406-ND	1.46	29.81	90.14
.400 (10.16)	24	1.200 (30.48)	A407-ND	1.66	33.86	102.38
.600 (15.24)	24	1.200 (30.48)	A408-ND	1.22	27.51	66.84
.600 (15.24)	28	1.400 (35.56)	A409AE-ND	1.45	32.83	79.76
.600 (15.24)	32	1.600 (40.64)	A410AE-ND	1.66	37.45	90.99
.600 (15.24)	40	2.000 (50.80)	A411-ND	1.93	43.61	105.95
.600 (15.24)	48	2.400 (60.96)	A412-ND	2.50	56.56	137.41
.900 (22.86)	50	2.500 (63.50)	A413-ND	3.31	67.67	204.59
.900 (22.86)	64	3.200 (81.28)	A414-ND	4.22	86.34	261.05

DIP Headers and Covers

Order Headers and Covers Separately

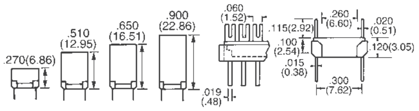

No. of Pins	DIP Header Digi-Key Part No.	Pricing 1	25	100	Cover Selection Guide – Inch (mm) .27 (6.86)	.51 (12.95)	.65 (16.51)	.90 (22.86)
8	A101-ND◆	1.11	24.26	78.57	A105-ND	—	—	—
14	A102AE-ND◆	1.56	34.18	110.71	A106-ND	A107-ND	A108-ND	A109-ND
16	A103-ND◆	1.69	36.96	119.73	A110AE-ND	A111-ND	A112-ND	A113-ND
18	A133-ND◆	1.89	41.37	134.01	A137-ND	—	—	—
20	A104AE-ND◆	2.02	44.10	142.86	A114-ND	—	—	—
24	A134-ND*◆	2.47	54.02	175.00	A138-ND	A139-ND	—	—
28	A135-ND*◆	2.90	63.42	205.44	A140-ND	—	—	—
40	A136-ND*◆	3.83	83.79	271.43	A142-ND	—	—	—

* .600 Pin Spacing ◆ ***RoHS Compliant***

Cover Digi-Key Part Number	Pricing 1	25	100
A105-ND◆	.34	6.98	20.61
A106-ND◆	.34	6.98	20.61
A107-ND◆	.37	7.59	22.39
A108-ND	.37	7.59	22.39
A109-ND◆	.37	7.59	22.39
A110AE-ND◆	.37	7.59	22.39
A111-ND	.37	7.59	22.39
A112-ND◆	.40	8.14	24.02
A113-ND◆	.40	8.14	24.02
A114-ND◆	.43	8.74	25.80
A137-ND	.43	8.74	25.80
A138-ND	.45	9.60	27.57
A139-ND	.54	11.35	32.62
A140-ND	.60	12.59	36.17
A142-ND◆	.65	13.78	39.59

◆ ***RoHS Compliant***

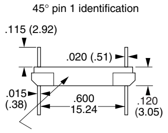

Depth of Bathtub: .100 (2.54)
Width of Bathtub: .500 (12.70)

ARIES ELECTRONICS, INC.

IC Pin Straightener

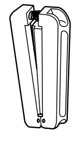

A998-ND
$29.65/1
$648.64/25

Dip Extractor

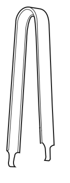

A999-ND
$4.67/1
$102.07/25

A998-ND Anti-Static IC Pin Straightener:
Straighten IC legs with one squeeze. Fits .300" (7.62mm) ICs in one side of the tool and .600" (15.24mm) ICs in the other side of the tool. Brings leads into tolerance of .320" (8.13mm) or .620" (15.75mm), respectively.

Note: This tool does not straighten IC legs that are bent to such an extent that the pin-to-pin spacing is not .100" (2.54mm).

A999-ND Dip Extractor:
An extremely handy, low-cost tool for removing ICs from dip sockets.

Vertisockets

Vertical Mount

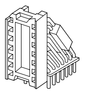

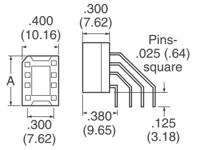

A117-ND – A121-ND

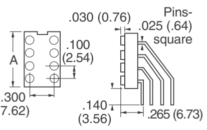

A122-ND – A125-ND

Features: • Restricted entry for contact protection • Maximum electrical contact- • Accepts standard LEDs, incandescent displays and large .5" (12.70mm) and .6" (15.24mm) high displays

Specifications: • **Contacts:** Grade A spring-tempered phosphor bronze • **Plating:** 10µ gold per MIL-G-45204 over 50µ nickel per QQN-290; 100µ tin plating per MIL-T-10727 over 50µ nickel per QQN-290 • **Socket:** Glass-filled thermoplastic

No. of Pins	Pin Centers Inch (mm)	Description	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	25
8	.300 (7.62)	Gold Plated	.45 (11.43)	A117-ND	4.49	98.78
14	.300 (7.62)	Gold Plated	.75 (19.05)	A118-ND◆	5.33	117.26
16	.300 (7.62)	Gold Plated	.85 (21.59)	A119-ND◆	6.93	152.46
8	.600 (15.24)	Gold Plated	—	A466-ND◆	5.67	119.07
14	.300 (7.62)	Tin Plated	.75 (19.05)	A120-ND◆	3.97	87.23
16	.300 (7.62)	Tin Plated	.85 (21.59)	A121-ND◆	5.38	118.42
10	.300 (7.62)	Collet Contacts	.495 (12.57)	A122-ND◆	6.19	136.18
14	.300 (7.62)	Collet Contacts	.695 (17.65)	A124-ND◆	7.70	169.46
16	.300 (7.62)	Collet Contacts	.795 (20.19)	A125-ND◆	8.51	187.11
8	.600 (15.24)	Gold Plated	—	A464-ND	4.44	93.19
10	.200 (5.08)	Gold Plated	—	A465-ND	5.33	111.93

◆ ***RoHS Compliant***

Vertisockets

Horizontal Mount

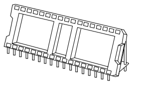

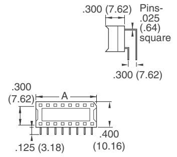

A126-ND – A129-ND

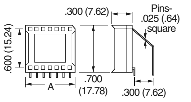

A130-ND – A132-ND

Features: • Restricted entry for contact protection • Maximum electrical contact • Accepts standard LEDs, incandescent displays and large .5" (12.70mm) and .6" (15.24mm) high displays

Specifications: • **Contacts:** Grade A spring tempered phosphor bronze • **Plating:** 10µ gold per MIL-G-45204 over 50µ nickel per QQN-290; 100µ tin plating per MIL-T-10727 over 50µ nickel per QQN-290 • **Socket:** Glass-filled thermoplastic

No. of Pins	Pin Centers Inch (mm)	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	25	100
8	.300 (7.62)	.45 (11.43)	A126-ND◆	3.70	81.46	251.87
14	.300 (7.62)	.75 (19.05)	A127-ND◆	4.52	99.33	307.14
16	.300 (7.62)	.85 (21.59)	A128-ND◆	4.91	108.02	334.01
20	.300 (7.62)	1.05 (26.67)	A129-ND◆	6.04	132.83	410.71
24	.600 (15.24)	1.25 (31.75)	A130-ND◆	9.29	204.44	632.14
28	.600 (15.24)	1.45 (36.83)	A131-ND◆	10.42	229.30	709.01
40	.600 (15.24)	2.05 (52.07)	A132-ND	13.57	298.60	923.30

◆ ***RoHS Compliant***

Vertical Socket

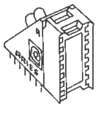

For displays on .300" (7.62mm) centers, 14 pin

These low-cost Vertisockets are recommended for high-volume vertical display mounting applications.

Available in tin-plated only

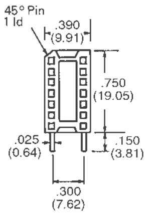

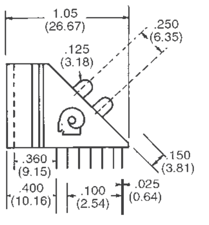

Digi-Key Part No.	Pricing 1	25	100	500	Aries Part No.
A116-ND	4.37	96.03	296.94	1310.02	14-810-90R

ARIES ELECTRONICS, INC.

Lock / Eject DIP Sockets

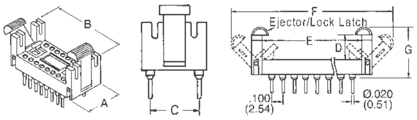

No. of Pins	Dimensions Inches (mm)						
	A	B	C	D	E	F	G
14	.400 (10.16)	.950 (24.16)	.300 (7.62)	.280 (7.11)	.770 (19.56)	1.300 (33.02)	.490 (12.45)
16	.400 (10.16)	1.050 (26.70)	.300 (7.62)	.280 (7.11)	.870 (22.10)	1.540 (39.12)	.490 (12.45)
24	.700 (17.78)	1.490 (37.85)	.600 (15.24)	.182 (4.62)	1.300 (33.02)	1.800 (45.72)	.460 (11.68)
28	.700 (17.78)	1.690 (42.90)	.600 (15.24)	.182 (4.62)	1.500 (38.10)	2.000 (50.80)	.460 (11.68)
32	.700 (17.78)	1.890 (48.00)	.600 (15.24)	.182 (4.62)	1.700 (43.18)	2.200 (55.88)	.460 (11.68)
40	.700 (17.78)	2.290 (58.20)	.600 (15.24)	.182 (4.62)	2.100 (53.34)	2.600 (66.04)	.460 (11.68)

No. of Pins	Fits Jumper Connectors, such as:	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
14	IC Packages	A514-ND	3.03	2.43	1.72	14-C280-10
16	IC Packages	A516-ND	3.28	2.63	1.87	16-C280-10
24	IC Packages	A524-ND	4.58	3.66	2.60	24-C182-10
28	IC Packages	A528-ND	4.85	3.88	2.75	28-C182-10
32	IC Packages	A532-ND	5.57	4.46	3.16	32-C182-10
40	IC Packages	A540-ND	7.06	5.65	4.00	40-C182-10

Series X518 Collet Sockets with Solder Tail Pins

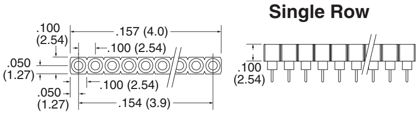

Features: • Can be cut to the number of pins desired to fit the application • Side-to-side and end-to-end stackable **Specifications:** • Socket Body: Black UL94V-0 nylon 4/6 • Contact Current Rating: 3A • Operating Temperature: Tin plating: 221°F (105°C); Gold plating: 257°F (125°C) • Accepts leads .015”-.025” (.381mm-.635mm) in diameter, .100” (2.54mm) minimum in length **Mounting:** Suggested PCB hole: .030” ±.002” (.76mm ±.05mm) diameter

No. of Pins	Description	Digi-Key Part No.	Price Each 1	25	Aries Part No.
40	Tin Plated	A460-ND	2.20	1.85	40-0518-10
40	Gold Plated	A461-ND	3.24	2.72	40-0518-11

Pin-Line Sockets with “Break” Feature

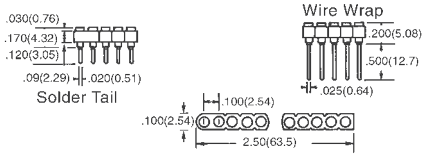

Features: • Tin-plated Pin-Line sockets can be snapped apart into any number of pins without damage or loss of pins. • Pin-Line sockets are low profile and used for mounting devices with .100” (2.54mm) spacing between pins. • Rows of socket strips may be mounted on any centers or side-by-side for .100” (2.54mm) grid or matrix patterns. Strips also butt end-to-end and maintain .100” (2.54mm) spacing.

No. of Pins	Digi-Key Part No.	Price Each 1	25	100
Solder Tail Dip Socket with Screw Machined Pin				
25	A208-ND	2.31	2.04	1.58
Wire Wrap Socket with Screw Machined Pin				
25	A209-ND	5.41	4.70	3.56

Pin-Line SIP Headers

Fig. 1

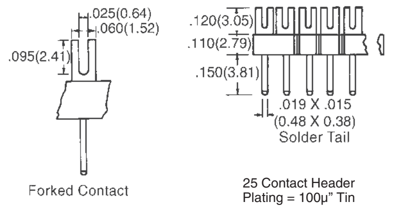

25 Contact Header
Plating = 100μ” Tin

Fig. 2

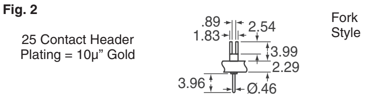

25 Contact Header
Plating = 10μ” Gold

Features: • Coined contacts • “Break” feature on Pin-Line headers assures headers can be easily snapped off to any number of positions without loss or damage to any pins. No tool is required. The “break” feature minimizes stocking problems and gives immediate adaptability for any length header requirement to any grid or matrix pattern.

Fig.	Digi-Key Part No.	Price Each 1	10	25	100	Aries Part No.
1	A115-ND	2.67	—	2.34	1.89	25-0600-10
2	A738-ND	8.72	6.63	—	4.89	25-0625-11

Strip Line SIP Sockets

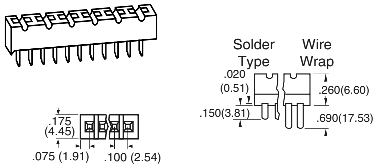

Features: • Bifurcated contacts **Specifications:** • Contacts: Grade A spring temper phosphor bronze QQB-7500 • Plating: 100μ tin per MIL-T-10727 • Socket: Glass-filled thermoplastic

No. of Pins	Solder Tail Digi-Key Part No.	Price Each 1	25	100	Wire Wrap Digi-Key Part No.	Price Each 1	25	100
12	A200-ND	2.87	2.61	2.22	A204-ND◆	3.46	3.01	2.28
20	A201-ND◆	3.84	3.50	2.97	A205-ND	5.05	4.39	3.33
25	A202-ND◆	4.81	4.38	3.73	A206-ND◆	6.37	5.53	4.19
34	A203-ND◆	5.03	4.58	3.89	A207-ND	7.83	6.81	5.16

◆ ***RoHS Compliant***

Quad Flat Pack (QFP) to PGA Adapters

Features:

- Adapters convert surface mount type (SMD) Quad Flat Pack (QFP) packages to standard pin grid array through-hole packages on .100” (2.54mm) pin spacing. This allows SMD QFP packages to be used in standard PGA and PGA ZIF sockets, which is extremely useful for testing.
- SMD QFP packages are typically less expensive and often more readily available than their through-hole PGA counterparts.
- Users do not have to redesign through-hole boards in order to utilize the advantages of the SMD QFP packages.

Fig. 1

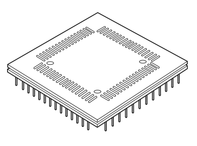

Fig. 2

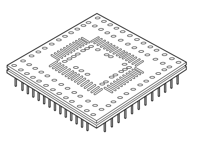

Fig.	Chip Type/ Mfg.	Pads No.	PGA No.	Pins/ Matrix	Digi-Key Part No.	Price Each 1	25	Aries Part No.
1	JEDEC	132	132	13x13	A174-ND	32.20	27.60	95-132I25
2	EIAJ	100	100	13x13	A175-ND	31.13	26.69	96-100M65
1	EIAJ	160	160	15x15	A176-ND	31.13	26.69	96-160M65
—	EIAJ	208	208	17x17	A722-ND	45.94	39.38	96-208M50

Surface Mount SOIC to DIP, SSOP to DIP, and SOJ to DIP Adapters

Specifications:

- **Board**: .062” (1.57mm) thick, double-sided FR-4, with 1 oz. copper traces
- **Pins**: Brass alloy 360, 1/2 hard
- **Plating**: 200μ” (5.08 μm) minimum 93/7 tin/lead per MIL-T-10727 Type 1 over 100μ” (2.54μm) minimum nickel per QQ-N-290
- **Mounting:** Suggested PCB hole: .028” (.71mm) diameter

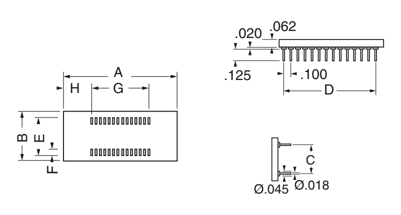

No. of Pins	Type	Dimensions (Inches) A	B	C	D	E	F	G	H	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
8	SOIC	.400	.460	.300	.300	.455	.155	.150	.121	A724-ND	5.96	5.01	3.26	08-350000-10
14	SOIC	.700	.450	.300	.600	.420	.138	.300	.180	A725-ND	5.96	5.01	3.26	14-350000-10
	SSOP	.700	.400	.300	.600	.340	.060	.154	—	A730-ND	26.83	22.54	14.65	14-351000-10
16	SOIC	.800	.450	.300	.700	.420	.138	.350	.180	A726-ND	5.96	5.01	3.26	16-350000-10
	SSOP	.800	.400	.300	.700	.340	.060	.179	—	A731-ND	26.83	22.54	14.65	16-351000-10
18	SSOP	.900	.400	.300	.800	.340	.060	.205	—	A732-ND	23.86	20.04	13.03	18-351000-10
	SOIC	.900	.450	.300	.800	.420	.138	.400	.180	A736-ND	5.87	5.04	4.59	18-350000-10
20	SOIC	1.000	.450	.300	.900	.420	.138	.450	.180	A727-ND	5.96	5.01	3.26	20-350000-10
	SOJ	1.000	.420	.300	.900	.350	.090	.600	.060	A325-ND	6.27	5.38	4.89	20-350001-10
	SSOP	1.000	.400	.300	.900	.340	.060	.230	—	A733-ND	26.83	22.54	14.65	20-351000-10
24	SOIC	1.200	.700	.600	1.100	.455	.150	.550	.180	A720-ND	9.92	8.34	5.42	24-650000-10
	SOIC	1.200	.450	.300	1.100	.420	.138	.550	.180	A322-ND	4.17	3.58	3.26	24-350000-10
28	SOIC	1.400	.700	.600	1.300	.450	.075	.650	.375	A320-ND	9.83	8.43	7.67	28-650000-10
	SOIC	1.400	.400	.300	1.300	.350	.090	.650	.375	A321-ND	6.27	5.38	4.89	28-350002-10
	SSOP	1.400	.400	.300	1.300	.340	.060	.333	—	A734-ND	26.83	22.54	14.65	28-351000-10
	SSOP	1.400	.700	.600	1.300	.340	.070	.333	—	A735-ND	37.21	31.26	20.32	28-651000-10
32	SOJ	1.600	.700	.600	1.500	.650	.200	.750	.425	A323-ND	10.35	8.87	8.08	32-650000-10
	SOJ	1.600	.530	.400	1.500	.500	.090	.750	.425	A324-ND	9.10	7.80	7.10	32-450001-10
RoHS Compliant														
8	SOIC	.400	.460	.300	.300	.455	.155	.150	.121	A744-ND	6.95	5.84	3.80	08-350000-11-RC
14	SOIC	.700	.450	.300	.600	.420	.138	.300	.180	A745-ND	6.95	5.84	3.80	14-350000-11-RC
	SSOP	.700	.400	.300	.600	.340	.060	.154	—	A746-ND	22.20	18.65	12.13	14-351000-11-RC
16	SOIC	.800	.450	.300	.700	.420	.138	.350	.180	A747-ND	6.95	5.84	3.80	16-350000-11-RC
	SSOP	.800	.400	.300	.700	.340	.060	.179	—	A748-ND	22.20	18.65	12.13	16-351000-11-RC
18	SSOP	.900	.400	.300	.800	.340	.060	.205	—	A749-ND	22.20	18.65	12.13	18-351000-11-RC
	SOIC	.900	.450	.300	.800	.420	.138	.400	.180	A750-ND	6.95	5.84	3.80	18-350000-11-RC
20	SOIC	1.000	.450	.300	.900	.420	.138	.450	.180	A751-ND	6.95	5.84	3.80	20-350000-11-RC
	SOJ	1.000	.420	.300	.900	.350	.090	.600	.060	A752-ND	18.58	15.61	10.15	20-350001-11-RC
	SSOP	1.000	.400	.300	.900	.340	.060	.230	—	A753-ND	22.20	18.65	12.13	20-351000-11-RC
24	SOIC	1.200	.700	.600	1.100	.455	.150	.550	.180	A754-ND	10.65	8.95	5.82	24-650000-11-RC
	SOIC	1.200	.450	.300	1.100	.420	.138	.550	.180	A755-ND	6.95	5.84	3.80	24-350000-11-RC
28	SOIC	1.400	.700	.600	1.300	.450	.075	.650	.375	A756-ND	18.40	15.46	10.05	28-650000-11-RC
	SOIC	1.400	.400	.300	1.300	.350	.090	.650	.375	A757-ND	12.18	10.23	6.65	28-350002-11-RC
	SSOP	1.400	.400	.300	1.300	.340	.060	.333	—	A758-ND	22.20	18.65	12.13	28-351000-11-RC
32	SOJ	1.600	.700	.600	1.500	.650	.200	.750	.425	A760-ND	15.25	12.81	8.33	32-650000-11-RC
	SOJ	1.600	.530	.400	1.500	.500	.090	.750	.425	A761-ND	32.30	27.14	17.64	32-450001-11-RC

ARIES®
ELECTRONICS, INC.

Surface Mount PLCC to DIP Adapters

Materials: • Pins and Contacts: Phosphor bronze adapter **• Body:** FR-4, .062" (1.57mm) thick **• Socket:** LCP, UL94V-0 rated **• Pads and Traces:** 1 oz. minimum copper. **Plating: • Pins:** 200µ" tin per MIL-T-10727 over 100µ" nickel per QQ-N-290 **• Contacts:** 150µ" 90/10 tin/lead

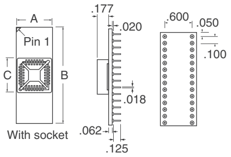

No.of Pins	Dimensions (Inch) A	B	C	Digi-Key Part No.	Price Each 1	25	Aries Part No.
28	.77	1.40	.705	A326-ND	23.85	20.45	28-653000-10
32	.705	1.60	.805	A721-ND	38.41	32.27	32-653000-10
44	.97	2.20	.910	A327-ND	27.47	23.55	44-653000-10
68	1.28	3.40	1.220	A328-ND	31.79	27.25	68-653000-10
84	1.48	4.20	1.420	A329-ND	31.79	27.25	84-653000-10

TO to DIP Adapter/Socket

Features: 8-pin DIP IC socket on the top and a circular 8-pin TO can male pin footprint on the bottom, can be readily mounted on boards having TO thru-hole footprints without having to redesign the board. **Specifications: • Socket Body:** Black UL94V-0 glass-filled polyester thermoplastic **• Female Pin Body Plating:** 200µ" minimum tin over 100µ" minimum nickel **• Contact Plating:** 10µ" minimum gold over 50µ" minimum nickel **• Male Pin:** Brass alloy 360 **• Male Pin Plating:** 200µ" minimum tin **• Current rating:** 3 Amps **• Operating Temperature:** 221°F (105°C) Tin plating • Accepts leads .015"-.025" (.38mm-.64mm) in diameter, .100"-.125" (2.54mm-3.18mm) long **Mounting Considerations:** Suggested PCB hole size: .028" (.71mm) diameter

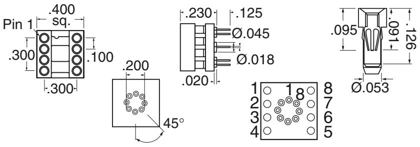

Digi-Key Part No.	Price Each 1	25	100	500	Aries Part No.
A330-ND	6.05	5.19	4.72	4.32	1109523

Adapter Sockets

A501/502

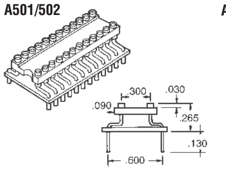

A503/504

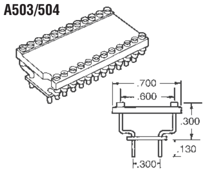

No. of Pins	Description (Inch)	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	.300 ~ .600	A501-ND	7.30	5.55	3.65	1106396-24
28	.300 ~ .600	A502-ND	7.98	6.07	3.99	1106396-28
24	.600 ~ .300	A503-ND	7.30	5.55	3.65	1107254-24
28	.600 ~ .300	A504-ND	7.98	6.07	3.99	1107254-28

PGA Zero Insertion Force (ZIF) Sockets

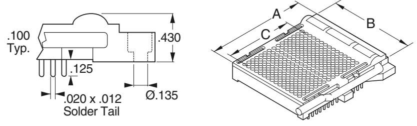

Features: • The Aries ZIF PGA is an extremely rugged, yet smooth acting test socket. • A strong metal cam activates the contacts which are normally closed. This prevents dependency on the plastic for contact force. • Housing of glass filled PPS, UL94V-0 rated

Specifications: • Contacts: Beryllium copper **• Temperature Rating:** -65°C ~ 125°C **• Housing:** Glass filled PPS, UL94V-0 rated **• Handle:** Stainless steel

Grid Size	No. of Pins	Dimensions (Inch) A	B	C	Digi-Key Part No.	Price Each
13 x 13	169	1.894	1.675	1.200	A314-ND◆	29.44
15 x 15	225	2.094	1.875	1.400	A315-ND	36.69
17 x 17	289	2.294	2.075	1.600	A316-ND◆	44.75
19 x 19	361	2.494	2.275	1.800	A317-ND◆	53.82
21 x 21	441	2.694	2.475	2.000	A318-ND◆	63.98

◆ *RoHS Compliant*

Surface Mount Universal SOIC Zero Insertion Force (ZIF) Test Sockets

Socket Accepts: SOIC gull wing & J-lead devices up to 44 pin devices; .050" (1.27mm) lead pitch; body widths from .15" (3.81mm) to .60" (15.24mm)

Materials:

- **Body:** Glass-filled PPS, UL94V-0 rated
- **Contacts:** Beryllium copper alloy per QQ-C-543
- **Hardware:** Stainless Steel

Plating: 20µ" minimum gold per MIL-G-45204 over 100µ": minimum nickel per QQ-N-290 over 20µ" minimum copper per MIL-C-14550

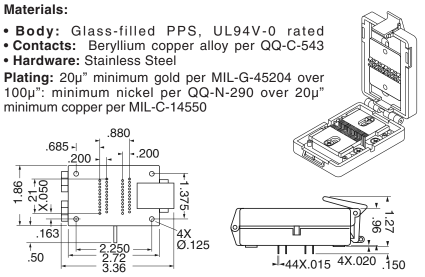

Digi-Key Part No.	Price Each	Aries Part No.
A339-ND◆	134.39	44-547-11
44 Pos. DIP Adapter (Converts A339-ND to standard 44 Pos. DIP)		
A728-ND	61.45	44-647-10

◆ *RoHS Compliant*

Zero Insertion Force (ZIF) Lo-Profile Sockets

Features:

A complete line of sizes, 24, 28 and 40 pin, low profile ZIF (zero insertion force) sockets provides a low cost solution for a test socket with a height of only .319" (8.10mm) [8, 10] and even with handle in open position, measures just .554" (14.07mm).

Specifications:

• **Pin:** Spring temper beryllium copper, tin plated • **Body:** Glass filled polyester, UL94V-0 rated. • **Cam:** Cast metal

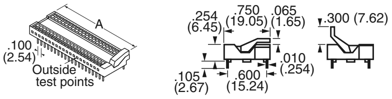

No. of Pins	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	1.450 (36.83)	A346-ND	7.21	6.55	5.57	24-526-10
28	1.650 (41.91)	A347-ND	7.78	7.07	6.02	28-526-10
40	2.250 (57.15)	A348-ND	9.34	8.50	7.23	40-526-10

Zero Insertion Force (ZIF) Sockets

Specifications: • Contacts: Heat treated beryllium copper **• Plating:** 100µ tin plating per MIL-T-10727 **• Sockets:** Glass filled thermoplastic

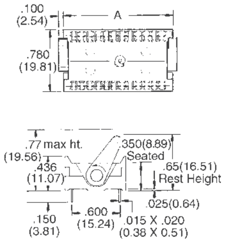

No. of Pins	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	1.30 (33.02)	A150-ND	10.64	9.58	9.05	24-516-10
28	1.62 (41.15)	A146-ND◆	11.45	10.31	9.74	28-516-10
40	2.10 (53.34)	A152-ND◆	15.10	13.59	12.85	40-516-10

◆ *RoHS Compliant*

Universal Zero Insertion Force (ZIF) Test Sockets

The Aries Universal Test Socket is a direct replacement for other test sockets currently on the market, with a number of significant advantages.

Features:

• .900 (22.86) overall height with contact level up • Available 24, 28, 32, 40, 48 pins in body of UL94V-0 rated polyphenylene sulfide • Contacts available tin plated (for up to 105°C) or gold plated (for up to 150°C) • Insulation Resistance – 1000MΩ minimum Dielectric withstanding voltage – 1000 VAC minimum • Contact rating – 1 amp • All pin count sockets (24, 28, 32, 40, 48) go into PCBs with .600 (15.24) centers. • Sockets can be soldered into PC boards or plugged into any socket. • Contacts are normally closed to eliminate dependence on plastic to sustain contact.

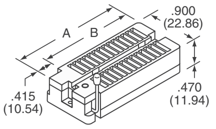

No. of Pins	Dimension - Inch (mm) A	B
24	1.74 (44.20)	1.10 (27.94)
28	1.94 (49.28)	1.30 (33.02)
32	2.14 (54.37)	1.50 (38.10)
40	2.54 (64.52)	1.90 (48.26)
48	2.94 (74.68)	2.30 (58.42)

No. of Pins	Contact Plating	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	Tin	A300-ND	7.90	6.92	6.73	24-6554-10
24	Gold	A301AE-ND	11.42	10.00	9.71	24-6554-11
28	Tin	A302-ND	9.02	7.90	7.67	28-6554-10
28	Gold	A303-ND	12.38	10.84	10.53	28-6554-11
32	Tin	A304-ND	10.07	8.81	8.57	32-6554-10
32	Gold	A305-ND	13.73	12.02	11.68	32-6554-11
40	Tin	A306-ND	12.02	10.52	10.22	40-6554-10
40	Gold	A307-ND	16.39	14.34	13.94	40-6554-11
48	Tin	A308-ND	14.10	12.34	11.99	48-6554-10
48	Gold	A309-ND	19.15	16.76	16.29	48-6554-11

Quick-Release Universal ZIF Test Socket

Features:

• Aries' Universal Test Socket accepts devices on .300" (7.62mm) to .600" (15.24mm) centers • Sockets go into PCB .600" (15.24mm) centers • Swing quick-release handle down to open contacts and insert device. Release and handle automatically returns as contacts close onto device leads.

Specifications:

- **Socket Body**: Black UL94V-0 Glass-filled Polyphenylene Sulfide (PPS)
- **Handle:** stainless steel
- **Contact Current Rating:** 1 amp
- **Insulation Resistance:** 1000MΩ minimum
- **Life Cycle:** 25,000 ~ 50,000 cycles
- **Operating Temperature:** 221°F (105°C) Tin plating; 302°F (150°C) Gold plating
- **Retention Force (when closed):** 55 grams/pin based on a .020" (.51mm) diameter test lead • Accepts leads .015"-.035" (.38mm-.89mm) wide, .100"-.280" (2.79mm-7.11mm) long

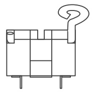

Loop Handle

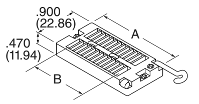

No. of Pins	Dimension - Inch (mm) A	B
24	1.79 (45.47)	1.10 (27.94)
28	1.99 (50.55)	1.30 (33.02)
32	2.19 (55.63)	1.50 (38.10)
40	2.59 (65.79)	1.90 (48.26)
48	2.99 (75.95)	2.30 (58.42)

No. of Pins	Description	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	Tin Plated	A439-ND	10.36	8.71	7.05	24-6574-10
24	Gold Plated	A440-ND	12.00	10.08	8.17	24-6574-11
28	Tin Plated	A441-ND	11.83	9.94	8.05	28-6574-10
28	Gold Plated	A442-ND	16.25	13.66	11.06	28-6574-11
32	Tin Plated	A443-ND	13.34	11.21	9.08	32-6574-10
32	Gold Plated	A444-ND	18.18	15.28	12.37	32-6574-11
40	Tin Plated	A445-ND	15.77	13.25	10.73	40-6574-10
40	Gold Plated	A446-ND	21.50	18.07	14.63	40-6574-11
48	Tin Plated	A447-ND	18.50	15.54	12.59	48-6574-10
48	Gold Plated	A448-ND	25.14	21.12	17.11	48-6574-11

ASSMANN PLCC Sockets

Specifications:

- **Contacts:** Phosphor bronze, tin and gold plated
- **Current Rating:** 1 Amp
- **Insulating Resistance:** 1000MΩ minimum
- **Withstanding Resistance:** 600Vrms
- **Contact Resistance:** 30mΩ maximum
- **Operating Temperature:** -55°C ~ 110°C
- **Insulator:** PBT, UL 94V-0

Fig. 1

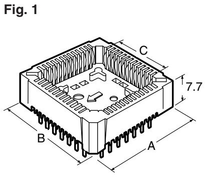

Fig. 2

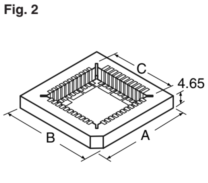

Fig.	No. of Contacts	Dimensions (Inch) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Assmann Part No.
PLCC — Thru Hole									
Tin — RoHS Compliant									
1	20	0.61	0.61	0.20	AE10054-ND	1.35	1.17	.95	A-CCS20-Z-R
	28	0.71	0.71	0.30	AE10055-ND	1.35	1.17	.95	A-CCS28-Z-R
	32	0.71	0.81	0.30	AE10056-ND	1.68	1.46	1.18	A-CCS32-Z-R
	44	0.93	0.93	0.50	AE10057-ND	1.71	1.49	1.20	A-CCS44-Z-R
	52	1.02	1.02	0.60	AE10058-ND	1.86	1.62	1.31	A-CCS52-Z-R
	68	1.23	1.23	0.80	AE10059-ND	2.40	2.08	1.68	A-CCS68-Z-R
	84	1.42	1.42	1.00	AE10060-ND	2.46	2.14	1.73	A-CCS84-Z-R
Gold									
1	20	0.61	0.61	0.20	AE7332-ND	1.21	1.05	.85	A-CCS20-G
	20	0.61	0.61	0.20	AE10061-ND◆	1.47	1.28	1.03	A-CCS20-G-R
	28	0.71	0.71	0.30	AE7333-ND	1.21	1.05	.85	A-CCS28-G
	28	0.71	0.71	0.30	AE10062-ND◆	1.68	1.46	1.18	A-CCS28-G-R
	32	0.71	0.81	0.30	AE7334-ND	1.40	1.21	.98	A-CCS32-G
	32	0.71	0.81	0.30	AE10063-ND◆	1.74	1.51	1.22	A-CCS32-G-R
	44	0.93	0.93	0.50	AE10064-ND◆	1.98	1.72	1.39	A-CCS44-G-R
	52	1.02	1.02	0.60	AE7336-ND	1.52	1.32	1.07	A-CCS52-G
	52	1.02	1.02	0.60	AE10065-ND◆	2.19	1.90	1.54	A-CCS52-G-R
	68	1.23	1.23	0.80	AE10066-ND◆	2.61	2.27	1.83	A-CCS68-G-R
	84	1.42	1.42	1.00	AE10067-ND◆	3.00	2.60	2.10	A-CCS84-G-R
PLCC — Surface Mount									
Tin									
2	20	0.62	0.62	0.20	AE10068-ND◆	1.17	1.02	.82	A-CCS20-Z-SM-R
	28	0.72	0.72	0.30	AE10069-ND◆	1.35	1.17	.95	A-CCS28-Z-SM-R
	32	0.72	0.82	0.40	AE10070-ND◆	1.35	1.17	.95	A-CCS32-Z-SM-R
	44	0.92	0.92	0.50	AE10071-ND◆	1.53	1.33	1.08	A-CCS44-Z-SM-R
	52	1.02	1.02	0.60	AE7343-ND	.96	.83	.67	A-CCS52-Z-SM
	52	1.02	1.02	0.60	AE10072-ND◆	1.74	1.51	1.22	A-CCS52-Z-SM-R
	68	1.22	1.22	0.80	AE10073-ND◆	1.98	1.72	1.39	A-CCS68-Z-SM-R

◆ ***RoHS Compliant***

IC Sockets

Dual Wipe Solder Tail

Specifications:

Contacts: Phosphor Bronze. **Mechanical and Electrical Data:** • Transitional Resistance: ≤12mΩ. Capacity between adjacent contacts: <0.9pF. Capacity between opposite adjacent contacts: <0.4pF. Dielectric Withstanding Voltage: AC 500V for 1 minute. • Insertion Force: ≤1.5N • Extraction Force: ≥0.7N. **Housing:** • PBT and 30% Glass Fiber (UL 94V-0) • Insulation Resistance: 10^{12} Ω • **Operating Temperature Range:** -55°C ~ 105°C

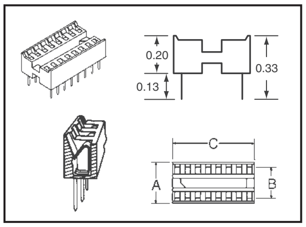

No. of Contacts	Contact Plating	Dimensions (Inch) A	B	C	Digi-Key Part No.	Pricing 1	10	100	500	Assmann Part No.
6	Tin	0.39	0.30	0.30	AE1485-ND◆	.59	4.68	37.70	136.50	A06-LC-TT-R
	Gold	0.39	0.30	0.30	AE1486-ND◆	1.26	10.92	88.20	378.00	A06-LCG-T-R
8	Tin	0.39	0.30	0.39	AE9986-ND◆	.32	2.52	20.30	73.50	A08-LC-TT-R
	Gold	0.39	0.30	0.39	AE9987-ND◆	.54	4.68	37.80	162.00	A08-LCG-T-R
	Tin	0.40	0.30	0.40	AE9988-ND†◆	.54	4.32	34.80	126.00	A08-LC-TR-R
14	Tin	0.39	0.30	0.70	AE9989-ND◆	.41	3.24	26.10	94.50	A14-LC-TT-R
	Gold	0.39	0.30	0.70	AE9814-ND	.63	5.51	38.00	152.00	A14-LCG-T
	Gold	0.39	0.30	0.70	AE9990-ND◆	.63	5.46	44.10	189.00	A14-LCG-T-R
	Tin	0.40	0.30	0.70	AE9991-ND†◆	.54	4.32	34.80	126.00	A14-LC-TR-R
16	Tin	0.39	0.30	0.80	AE9992-ND◆	.45	3.60	29.00	105.00	A16-LC-TT-R
	Gold	0.39	0.30	0.80	AE9993-ND◆	.72	6.24	50.40	216.00	A16-LCG-T-R
	Tin	0.40	0.30	0.80	AE9994-ND†◆	.63	5.04	40.60	147.00	A16-LC-TR-R
18	Tin	0.39	0.30	0.90	AE9995-ND◆	.54	4.32	34.80	126.00	A18-LC-TT-R
	Gold	0.39	0.30	0.90	AE9818-ND	.81	7.08	48.80	195.20	A18-LCG-T
	Gold	0.39	0.30	0.90	AE9996-ND◆	.81	7.02	56.70	243.00	A18-LCG-T-R
	Tin	0.40	0.30	0.90	AE9997-ND†◆	.68	5.40	43.50	157.50	A18-LC-TR-R
20	Tin	0.39	0.30	1.00	AE9998-ND◆	.59	4.68	37.70	136.50	A20-LC-TT-R
	Gold	0.40	0.30	1.00	AE9999-ND◆	.87	7.54	60.90	261.00	A20-LCG-T-R
	Tin	0.40	0.30	1.00	AE9845-ND†	.26	2.09	16.82	60.90	A20-LC-TR
	Tin	0.40	0.30	1.00	AE10000-ND†◆	.77	6.12	49.30	178.50	A20-LC-TR-R
22	Tin	0.50	0.40	1.10	AE10264-ND◆	.86	6.84	55.10	199.50	A22-LC-T2-R
	Gold	0.50	0.40	1.10	AE9822-ND	.89	7.75	62.58	268.20	A22-LCG
24	Tin	0.70	0.30	1.20	AE10285-ND◆	.63	5.04	40.60	147.00	A24-LC-7-TT-R
	Tin	0.70	0.60	1.20	AE10001-ND◆	.63	5.04	40.60	147.00	A24-LC-TT-R
	Gold	0.70	0.60	1.20	AE10002-ND◆	.96	8.32	67.20	288.00	A24-LCG-T-R
	Tin	0.70	0.60	1.20	AE10003-ND†◆	.81	6.48	52.20	189.00	A24-LC-TR-R
28	Tin	0.70	0.60	1.40	AE10004-ND◆	.86	6.84	55.10	199.50	A28-LC-TT-R
	Tin	0.70	0.30	1.40	AE10286-ND◆	.77	6.12	49.30	178.50	A28-LC-7-TT-R
	Gold	0.70	0.60	1.40	AE10005-ND◆	1.26	10.92	88.20	378.00	A28-LCG-T-R
	Tin	0.70	0.60	1.40	AE10006-ND†◆	1.08	8.64	69.60	252.00	A28-LC-TR-R
32	Tin	0.70	0.60	1.60	AE10007-ND†◆	1.22	9.72	78.30	283.50	A32-LC-TR-R
40	Tin	0.70	0.60	2.00	AE10008-ND◆	1.22	9.72	78.30	283.50	A40-LC-TT-R
	Gold	0.70	0.60	2.00	AE10009-ND◆	1.80	15.60	126.00	540.00	A40-LCG-T-R
	Tin	0.70	0.60	2.00	AE9851-ND†	.46	3.67	29.58	107.10	A40-LC-TR
	Tin	0.70	0.60	2.00	AE10010-ND†◆	1.53	12.24	98.60	357.00	A40-LC-TR-R

† Retentive Leg Version ◆ ***RoHS Compliant***

IC Sockets Machine Pin

With gold plated precision spring contacts, open frame, solder pin and wire wrap terminals.
Contacts Spring: Copper alloy, 4 finger contact. Surface gold over nickel. Absolute protection against capillary action. Connecting pins: brass, solder version. **Mechanical and Electrical Data:** Depth of Insertion: 2.3mm ~ 3.7mm. Vibration: 20g after MIL-STD-202. Shock: 150g to MIL-STD-202. Insertion Frequency: >1000. Transitional Resistance after 100 insertion cycles: ≤12mΩ. Capacity between adjacent contacts: <0.9pF. Capacity between opposite adjacent contacts: <0.4pF. Air and creepage space between adjacent contacts: >0.4mm. **Insulators:** Polyester GV, VO self-extinguishing, UL 94. Insulation Resistance: 10^{12}Ω. **Operating Temperature Range:** -65°C ~ 150°C. Retains shape in solder bath. Resistant to detergent. **Contact Plating:** Pin: Tin; Clip: Gold.

Fig. 1

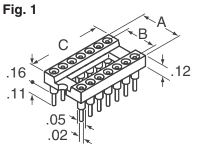

Fig. 2

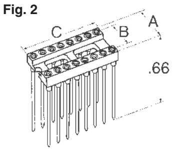

Fig.	No. of Contacts	Dimensions (Inch) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Assmann Part No.
Solder Tail									
Gold Flash									
1	6	0.40	0.30	0.40	AE10022-ND◆	.36	.32	.26	AR06-HZL-TT-R
	8	0.40	0.30	0.40	AE10011-ND◆	.48	.42	.34	AR08-HZL-TT-R
	14	0.40	0.30	0.70	AE10012-ND◆	.78	.68	.55	AR14-HZL-TT-R
	16	0.40	0.30	0.80	AE10013-ND◆	.93	.81	.66	AR16-HZL-TT-R
	18	0.40	0.30	0.90	AE10014-ND◆	1.02	.89	.72	AR18-HZL-TT-R
	20	0.40	0.30	1.00	AE10015-ND◆	1.11	.97	.78	AR20-HZL-TT-R
	24	0.70	0.60	1.20	AE7224-ND	1.25	1.11	.76	AR24-HZL-TT
	24	0.70	0.60	1.20	AE10016-ND◆	1.38	1.20	.97	AR24-HZL-TT-R
	28	0.70	0.60	1.40	AE10017-ND◆	1.68	1.46	1.18	AR28-HZL-TT-R
	40	0.70	0.60	2.00	AE10018-ND◆	2.13	1.85	1.50	AR40-HZL-TT-R
	48	0.70	0.60	2.40	AE10019-ND◆	2.64	2.29	1.85	AR48-HZL-TT-R
	64	1.00	0.90	3.20	AE10176-ND◆	4.86	4.22	3.41	AR64-HZL-TT-R
10µ" Gold									
1	6	0.40	0.30	0.30	AE10021-ND◆	.66	.58	.47	AR06-HZL/01-TT-R
	8	0.40	0.30	0.40	AE10175-ND◆	.87	.76	.61	AR08-HZL/01-TT-R
	14	0.40	0.30	0.70	AE7302-ND	1.11	.96	.78	AR14-HZL/01-TT
	14	0.40	0.30	0.70	AE10023-ND◆	1.56	1.36	1.10	AR14-HZL/01-TT-R
	16	0.40	0.30	0.80	AE10024-ND◆	1.80	1.56	1.26	AR16-HZL/01-TT-R
	20	0.40	0.30	1.00	AE10025-ND◆	2.31	2.01	1.62	AR20-HZL/01-TT-R
	24	0.70	0.60	1.20	AE10026-ND◆	2.73	2.37	1.92	AR24-HZL/01-TT-R
	24	0.40	0.30	1.20	AE10027-ND◆	2.73	2.37	1.92	AR24-HZL/7/01-TT-R
	28	0.70	0.60	1.40	AE10028-ND◆	3.18	2.76	2.23	AR28-HZL/01-TT-R
	28	0.40	0.30	1.40	AE10029-ND◆	3.03	2.63	2.13	AR28-HZL/7/01-TT-R
	32	0.70	0.60	1.60	AE10030-ND◆	3.45	2.99	2.42	AR32-HZL/01-TT-R
	40	0.70	0.60	2.00	AE10031-ND◆	4.32	3.75	3.03	AR40-HZL/01-TT-R
	48	0.70	0.60	2.40	AE7311-ND	3.74	3.25	2.62	AR48-HZL/01-TT
30µ" Gold									
1	6	0.40	0.30	0.30	AE10033-ND◆	1.20	1.04	.84	AR06-HZL/07-TT-R
	8	0.40	0.30	0.40	AE7313-ND	.93	.81	.66	AR08-HZL/07-TT
	8	0.40	0.30	0.40	AE10034-ND◆	1.62	1.41	1.14	AR08-HZL/07-TT-R
	14	0.40	0.30	0.70	AE7314-ND	1.47	1.28	1.03	AR14-HZL/07-TT
	14	0.40	0.30	0.70	AE10035-ND◆	2.76	2.40	1.94	AR14-HZL/07-TT-R
	16	0.40	0.30	0.80	AE10036-ND◆	3.21	2.79	2.25	AR16-HZL/07-TT-R
	18	0.40	0.30	0.90	AE10037-ND◆	3.51	3.05	2.46	AR18-HZL/07-TT-R
	20	0.40	0.30	1.00	AE10038-ND◆	4.05	3.51	2.84	AR20-HZL/07-TT-R
	24	0.70	0.60	1.20	AE7318-ND	2.47	2.14	1.73	AR24-HZL/07-TT
	24	0.40	0.30	1.20	AE10040-ND◆	4.83	4.19	3.39	AR24-HZL/7/07-TT-R
	28	0.70	0.60	1.40	AE10041-ND◆	5.61	4.87	3.93	AR28-HZL/07-TT-R
	28	0.40	0.30	1.40	AE7321-ND	2.88	2.50	2.02	AR28-HZL/7/07-TT
	28	0.40	0.30	1.40	AE10042-ND◆	5.31	4.61	3.72	AR28-HZL/7/07-TT-R
	32	0.70	0.60	1.60	AE10043-ND◆	6.09	5.28	4.27	AR32-HZL/07-TT-R
	40	0.70	0.60	2.00	AE7323-ND	4.55	3.95	3.19	AR40-HZL/07-TT
	40	0.70	0.60	2.00	AE10044-ND◆	7.53	6.53	5.28	AR40-HZL/07-TT-R
	48	0.70	0.60	2.40	AE7324-ND	4.97	4.31	3.48	AR48-HZL/07-TT
Wire Wrap									
2	8	0.40	0.30	0.40	AE10046-ND◆	1.68	1.46	1.18	AR08-HZW/T-R
	14	0.40	0.30	0.70	AE10047-ND◆	2.31	2.01	1.62	AR14-HZW/T-R
	16	0.40	0.30	0.80	AE10048-ND◆	2.67	2.32	1.87	AR16-HZW/T-R
	18	0.40	0.30	0.90	AE7118-ND	2.13	1.85	1.50	AR18-HZW/T
	18	0.40	0.30	0.90	AE10049-ND◆	3.00	2.60	2.10	AR18-HZW/T-R
	20	0.40	0.30	1.00	AE10050-ND◆	3.33	2.89	2.34	AR20-HZW/T-R
	24	0.70	0.60	1.20	AE7124-ND	2.85	2.47	2.00	AR24-HZW/T
	24	0.70	0.60	1.20	AE10051-ND◆	4.35	3.77	3.05	AR24-HZW/T-R
	28	0.70	0.60	1.40	AE10052-ND◆	4.65	4.03	3.26	AR28-HZW/T-R
	40	0.70	0.60	2.00	AE7140-ND	5.21	4.59	3.16	AR40-HZW/T
	40	0.70	0.60	2.00	AE10053-ND◆	6.33	5.49	4.44	AR40-HZW/T-R

◆ ***RoHS Compliant***

OK Industries
Division of Jonard Industries Corp.

IC Insertion/Extraction Tools

Fig. 1

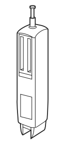

Fig. 2

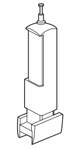

Fig. 3

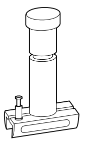

Fig. 4

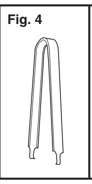

Fig. 5

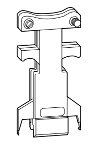

Fig. 6

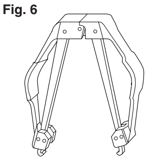

Fig.	Description	Digi-Key Part No.	Price Each
1	14~16 Pin CMOS Safe Inserter	K154-ND	20.43
2	24~28 Pin CMOS Safe Inserter	K155-ND	20.43
3	36~40 Pin CMOS Safe Inserter	K156-ND	23.48
4	Extractor Tool, (8 ~ 24 pins)	K157-ND	3.15
5	Extractor Tool, (24 ~ 40 pins)	K158-ND	23.47
—	Insertion and Extraction Kit	K159-ND†	79.83
6	Universal PLCC Extraction Tool ESD Safe	K293-ND	21.74
	Low Cost Universal PLCC Extractor	K374-ND	10.96

† The K159 Kit contains: K154, K155, K156, K157 and K158.

Zero Insertion Force (ZIF) I.C. Sockets

ZIP DIP

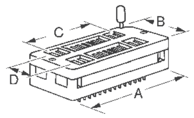

Econo ZIF

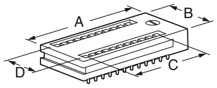

ZIP DIP Receptacles

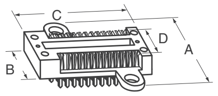

Universal DIP Socket

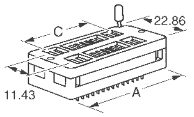

PGA ZIP Socket

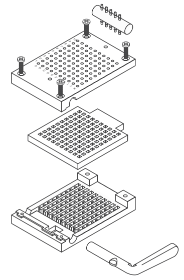

Note: Contacts Ordered Separately

Shrink DIP Socket

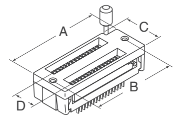

.070" Pin to Pin Pitch

SOIC Lidded Socket

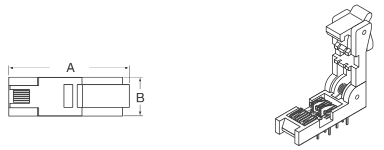

In-Line ZIP Strip Socket

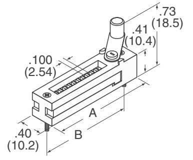

ZIP DIP SOCKETS:

Features: • For DIPs with .100" (2.54mm) lead spacing • Pin counts for 14~64 leads • Lever actuated zero insertion force mechanism • Socket easily disassembles for repairability

Physical Specifications: • Insulation Material: Glass Filled Polysulfone; Flammability: UL 94V-0 • Color: Green • Contact Material: Beryllium Copper; Plating: 30µ" (0.76µm) Gold over 50µ" (1.3µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

ECONO ZIF SOCKETS:

Designed for OEM/end use applications where field replacement or programming of DIPs is required. The patented ZIF feature uses screwdriver rotation of a cam (instead of a lever) for security against vibration or accidental unloading. Leads are on .100" centers.

ZIP DIP RECEPTACLES:

Features: • Matching receptacle for every ZIP DIP Socket, including "Universal DIP" and "Shrink DIP" • Mounting flanges hold receptacle to board • Pre-tapped holes in receptacle body mate with screw-hole in socket to hold socket firmly to receptacle (2 screws provided with each receptacle)

Physical Specifications: • Insulation Material: Glass Filled Polysulfone, Flammability Rating: UL94V-0 • Color: Green • Contact Material: Beryllium Copper; Plating: 30µ" (.076µm) Gold over 50µ" (1.3 µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

UNIVERSAL DIP SOCKETS .100 CENTERS:

Features: • For DIPs with .100" lead spacing • Extra wide contact zone allows insertion of DIPs with distance between rows from .300" through .600" • Lever actuated zero insertion force mechanism • Socket easily disassembles for repairability

Physical Specifications: • Insulation Material: Glass Filled Polysulfone; Flammability: UL 94V-0 • Color: Green • Contact Material: Beryllium Copper; Plating: 30µ" (0.76µm) Gold over 50µ" (1.3µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

SHRINK DIP SOCKETS:

Features: • For DIPs with .070" (1.78mm) lead spacing • Pin counts from 28 through 90 leads • Lever actuated zero insertion force mechanism

Physical Specifications: • Insulation Material: Glass Filled Polysulfone; Flammability: UL 94V-0 • Color: Green • Contact Material: Beryllium Copper; Plating: Gold Flash over 50µ" (1.3µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

SOIC SOCKETS LIDDED:

Features: • Lid can be actuated from top or front and is compatible with automated load/unload equipment • Compact envelope and side to side stackability maximize broad density • Tweezer slot for easy manual loading/unloading • Lid applies 80 grams normal force per lead for maximum electrical reliability • Accepts Gull Wing JEDEC devices sizes in .150" (3.81mm) and .300" (7.62mm) body widths

Physical Specifications: • Insulation Material: Glass Filled Polyethersulfone; Flammability: UL 94V-0 • Color: Black • Contact Material: Beryllium Copper; Plating: 30µ" (0.76µm) Gold over 50µ" (1.3µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

IN-LINE ZIP STRIP SOCKETS:

Features: • For single-in-line packages on .100" (2.54mm) centers • SIP pin counts from 10 through 36 leads • Lever actuated zero insertion force mechanism • Ganging bar included to enable mass actuation • Accepts pins up to .025" (0.6mm) square

Physical Specifications: • Insulation Material: Glass Filled Polysulfone; Flammability: UL 94V-0 • Color: Green • Contact Material: Beryllium Copper; Plating: 30µ" (0.76µm) Gold over 50µ" (1.3µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

PGA ZIP SOCKETS:

Features: • Available in 10 x 10 matrix through 25 x 25 matrix • Used when only a few test sockets are needed • Provides individual components ready for assembly • Open pattern top plate; load only those contacts needed for your specific device pin pattern

Physical Specifications: • Insulation Material: Polyethersyfone (PES); Flammability: UL 94V-0V • Color: Black • Contact Material: Beryllium Copper • Plating Options: 30µ" (0.76µm) Gold over 50µ" (1.3µm) Nickel **Electrical Specifications:** • Current Rating: 1 Amp **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 150°C

Note: Contacts Ordered Separately

No. of Pins	Contact Plating	Dimensions – Inch (mm)				Digi-Key Part No.	Pricing		3M Part No.
		A	B	C	D		1	10	
ZIP DIP Sockets									
14	Gold	1.30 (33.0)	.60 (15.2)	.60 (15.2)	.300 (7.62)	3M1402-ND	9.59	76.09	214-3339-00-0602J
16		1.39 (35.3)	.60 (15.2)	.70 (17.8)	.300 (7.62)	3M1602-ND	9.98	79.25	216-3340-00-0602J
18		1.49 (37.8)	.60 (15.2)	.80 (20.3)	.300 (7.62)	3M1802-ND	10.37	82.28	218-3341-00-0602J
20		1.59 (40.4)	.60 (15.2)	.90 (22.9)	.300 (7.62)	3M2002-ND	10.17	80.66	220-3342-00-0602J
22		1.69 (42.9)	.70 (17.8)	1.00 (25.4)	.400 (10.16)	3M2202-ND	11.17	88.68	222-3343-00-0602J
24	Gold	1.78 (45.3)	.90 (22.9)	1.10 (27.9)	.600 (15.24)	3M2402-ND	9.93	78.82	224-1275-00-0602J
24		1.79 (45.5)	.60 (15.2)	1.10 (27.9)	.300 (7.62)	3M5000-ND	13.98	111.84	224-5248-00-0602J
28		1.99 (50.5)	.90 (22.9)	1.30 (33.0)	.600 (15.24)	3M2802-ND	10.41	82.58	228-1277-00-0602J
28		1.99 (50.5)	.70 (17.8)	1.30 (33.0)	.400 (10.16)	3M5001-ND	15.04	120.32	228-4817-00-0602J
32		2.19 (55.5)	.90 (22.9)	1.50 (38.1)	.600 (15.24)	3M5076-ND	14.60	116.80	232-1285-00-0602J
40	Gold	2.58 (65.6)	.90 (22.9)	1.90 (48.3)	.600 (15.24)	3M4002-ND	13.49	107.03	240-1280-00-0602J
64		3.95 (100.3)	1.30 (33.0)	3.10 (78.7)	.900 (22.86)	3M6402-ND	21.10	167.49	264-4493-00-0602J
40		2.58 (65.5)	1.30 (33.0)	1.90 (48.3)	1.00 (25.4)	3M5002-ND	19.44	155.52	240-3639-00-0602J
42		2.68 (68.2)	.90 (22.9)	2.00 (50.8)	.600 (15.24)	3M5003-ND	16.44	131.52	242-1281-00-0602J
48		2.98 (75.8)	.90 (22.9)	2.30 (58.4)	.600 (15.24)	3M5004-ND	20.50	164.00	248-1282-00-0602J
Econo ZIF Sockets									
16	Gold	1.10 (27.94)	.50 (12.70)	.700 (17.78)	.300 (7.62)	3M1603-ND	5.58	48.59	216-6278-00-3303
ZIP DIP Receptacles — Solder Tail with Flanges									
14	Gold	1.00 (25.4)	.60 (15.2)	1.28 (32.5)	.300 (7.62)	3M1401-ND	9.01	68.15	214-3339-09-0602J
16		.96 (24.4)	.56 (14.2)	1.37 (34.8)	.300 (7.62)	3M1601-ND	9.39	71.03	216-3340-09-0602J
18		.95 (24.1)	.55 (14.0)	1.49 (37.8)	.300 (7.62)	3M1801-ND	9.83	74.40	218-3341-09-0602J
20		1.00 (25.4)	.60 (15.2)	1.58 (40.1)	.300 (7.62)	3M2001-ND	10.22	77.28	220-3342-09-0602J
22		1.06 (26.9)	.65 (16.5)	1.69 (42.9)	.400 (10.16)	3M2201-ND	10.62	80.31	222-3343-09-0602J
24	Gold	1.26 (32.0)	.86 (21.8)	1.77 (45.0)	.600 (15.24)	3M2401-ND	9.44	71.46	224-1275-09-0602J
24		.96 (24.4)	.56 (14.2)	1.77 (45.0)	.300 (7.62)	3M5021-ND	11.28	90.24	224-5248-09-0602J
28		1.26 (32.0)	.86 (21.8)	1.98 (50.3)	.600 (15.24)	3M2801-ND	10.47	79.23	228-1277-09-0602J
28		1.09 (27.9)	.70 (17.8)	1.59 (40.5)	.400 (10.16)	3M5026-ND	10.60	84.80	228-1290-09-0602J
28		1.06 (26.9)	.66 (16.8)	1.98 (50.3)	.400 (10.16)	3M5028-ND	13.18	105.44	228-4817-09-0602J
32	Gold	1.25 (32.0)	.86 (21.9)	2.17 (55.2)	.600 (15.24)	3M5030-ND	11.66	93.28	232-1285-09-0602J
40		1.27 (32.3)	.86 (21.8)	2.58 (65.5)	.600 (15.24)	3M4001-ND	13.08	98.95	240-1280-09-0602J
40		1.66 (42.2)	1.26 (32.0)	2.58 (65.5)	1.00 (25.4)	3M5037-ND	16.44	131.52	240-3639-09-0602J
42		1.26 (32.0)	.86 (21.8)	2.68 (68.1)	.600 (15.24)	3M5039-ND	13.52	108.16	242-1281-09-0602J
42		1.30 (33.0)	.90 (22.9)	2.08 (52.9)	.600 (15.24)	3M5043-ND	14.14	113.12	242-1293-09-0602J
48	Gold	1.25 (31.8)	.86 (21.8)	2.98 (75.8)	.600 (15.24)	3M5045-ND	15.14	121.12	248-1282-09-0602J
64		1.70 (43.2)	1.30 (33.0)	3.95 (100.3)	.900 (22.86)	3M6401-ND	20.91	158.19	264-4493-09-0602J
64		1.52 (38.5)	1.11 (28.3)	2.85 (72.5)	.800 (20.32)	3M5049-ND	20.36	162.88	264-1300-09-0602J
90		1.61 (40.8)	1.19 (30.2)	3.77 (95.7)	.900 (22.86)	3M5052-ND	28.22	225.76	290-1294-09-0602J
ZIP DIP Receptacles — Wire Wrap with Flanges									
14	Gold	1.00 (25.4)	.60 (15.2)	1.28 (32.5)	.300 (7.62)	3M5013-ND	11.62	92.96	214-3339-19-0602J
16		.96 (24.4)	.56 (14.2)	1.37 (34.8)	.300 (7.62)	3M5014-ND	12.24	97.92	216-3340-19-0602J
18		.95 (24.1)	.55 (14.0)	1.49 (37.8)	.300 (7.62)	3M5015-ND	12.88	103.04	218-3341-19-0602J
20		1.00 (25.4)	.60 (15.2)	1.58 (40.1)	.300 (7.62)	3M5016-ND	13.56	108.48	220-3342-19-0602J
22		1.06 (26.9)	.65 (16.5)	1.69 (42.9)	.400 (10.16)	3M5017-ND	14.24	113.92	222-3343-19-0602J
24		1.26 (32.0)	.86 (21.8)	1.77 (45.0)	.600 (15.24)	3M5018-ND	12.10	96.80	224-1275-19-0602J

(Continued)

3M Zero Insertion Force (ZIF) I.C. Sockets *(Cont.)*

No. of Pins	Contact Plating	Dimensions – Inch (mm)				Digi-Key Part No.	Pricing		3M Part No.
		A	B	C	D		1	10	
24	Gold	.96 (24.4)	.56 (14.2)	1.77 (45.0)	.300 (7.62)	3M5022-ND	14.86	118.88	224-5248-19-0602J
28		1.26 (32.0)	.86 (21.8)	1.98 (50.3)	.600 (15.24)	3M5023-ND	13.56	108.48	228-1277-19-0602J
28		1.06 (26.9)	.66 (16.8)	1.98 (50.3)	.400 (10.16)	3M5029-ND	16.66	133.28	228-4817-19-0602J
32		1.25 (32.0)	.86 (21.9)	2.17 (55.2)	.600 (15.24)	3M5031-ND	14.96	119.68	232-1285-19-0602J
40		1.27 (32.3)	.86 (21.8)	2.58 (65.5)	.600 (15.24)	3M5034-ND	17.50	140.00	240-1280-19-0602J
40	Gold	1.66 (42.2)	1.26 (32.0)	2.58 (65.5)	1.000 (25.4)	3M5038-ND	21.36	170.88	240-3639-19-0602J
42		1.26 (32.0)	.86 (21.8)	2.68 (68.1)	.600 (15.24)	3M5040-ND	17.90	143.20	242-1281-19-0602J
48		1.25 (31.8)	.86 (21.8)	2.98 (75.8)	.600 (15.24)	3M5046-ND	20.14	161.12	248-1282-19-0602J
64		1.70 (43.2)	1.30 (33.0)	3.95 (100.3)	.900 (22.86)	3M5051-ND	29.34	234.72	264-4493-19-0602J
ZIP DIP Receptacles — Solder Tail without Flanges									
24	Gold	1.26 (32.0)	.86 (21.8)	1.77 (45.0)	.600 (15.24)	3M5019-ND	9.64	77.12	224-1275-29-0602J
28		1.26 (32.0)	.86 (21.8)	1.98 (50.3)	.600 (15.24)	3M5024-ND	10.66	85.28	228-1277-29-0602J
28		1.09 (27.9)	.70 (17.8)	1.59 (40.5)	.400 (10.16)	3M5027-ND	10.60	84.80	228-1290-29-0602J
32		1.25 (32.0)	.86 (21.9)	2.17 (55.2)	.600 (15.24)	3M5032-ND	11.66	93.28	232-1285-29-0602J
40		1.27 (32.3)	.86 (21.8)	2.58 (65.5)	.600 (15.24)	3M5035-ND	13.36	106.88	240-1280-29-0602J
42	Gold	1.26 (32.0)	.86 (21.8)	2.68 (68.1)	.600 (15.24)	3M5041-ND	13.52	108.16	242-1281-29-0602J
42		1.30 (33.0)	.90 (22.9)	2.08 (52.9)	.600 (15.24)	3M5044-ND	14.08	112.64	242-1293-29-0602J
48		1.25 (31.8)	.86 (21.8)	2.98 (75.8)	.600 (15.24)	3M5047-ND	15.14	121.12	248-1282-29-0602J
64		1.52 (38.5)	1.11 (28.3)	2.85 (72.5)	.800 (20.32)	3M5050-ND	19.16	153.28	264-1300-29-0602J
90		1.61 (40.8)	1.19 (30.2)	3.77 (95.7)	.900 (22.86)	3M5053-ND	28.22	225.76	290-1294-29-0602J
ZIP DIP Receptacles — Wire Wrap without Flanges									
24	Gold	1.26 (32.0)	.86 (21.8)	1.77 (45.0)	.600 (15.24)	3M5020-ND	12.10	96.80	224-1275-39-0602J
28		1.26 (32.0)	.86 (21.8)	1.98 (50.3)	.600 (15.24)	3M5025-ND	13.56	108.48	228-1277-39-0602J
32		1.25 (32.0)	.86 (21.9)	2.17 (55.2)	.600 (15.24)	3M5033-ND	14.96	119.68	232-1285-39-0602J
40		1.27 (32.3)	.86 (21.8)	2.58 (65.5)	.600 (15.24)	3M5036-ND	17.50	140.00	240-1280-39-0602J
42		1.26 (32.0)	.86 (21.8)	2.68 (68.1)	.600 (15.24)	3M5042-ND	17.90	143.20	242-1281-39-0602J
48		1.25 (31.8)	.86 (21.8)	2.98 (75.8)	.600 (15.24)	3M5048-ND	19.00	152.00	248-1282-39-0602J
Universal DIP Sockets									
24	Gold	1.77 (45.0)	—	1.10 (27.94)	—	3M2406-ND	13.06	103.64	224-1286-00-0602J
28		1.99 (50.5)	—	1.30 (33.02)	—	3M2806-ND	15.66	124.29	228-1371-00-0602J
32		2.19 (56.6)	—	1.50 (38.10)	—	3M5005-ND	20.78	166.24	232-1287-00-0602J
40		2.59 (65.8)	—	1.90 (48.26)	—	3M4006-ND	20.44	162.20	240-1288-00-0602J
42		2.69 (68.2)	—	2.00 (50.80)	—	3M5006-ND	26.04	208.32	242-1289-00-0602J
Shrink DIP Sockets — .070" Pin to Pin Pitch									
28	Gold	1.60 (40.5)	1.42 (36.1)	.70 (17.8)	.40 (10.16)	3M5007-ND	13.12	104.96	228-1290-00-0602J
32		1.73 (44.0)	1.56 (39.6)	.70 (17.8)	.40 (10.16)	3M5008-ND	18.44	147.52	232-1291-00-0602J
42		2.10 (52.9)	1.90 (48.5)	.90 (22.9)	.60 (15.24)	3M5009-ND	17.98	143.84	242-1293-00-0602J
56		2.57 (65.4)	2.40 (61.0)	.90 (22.9)	.60 (15.24)	3M5010-ND	25.90	207.20	256-1292-00-0602J
64		2.90 (72.5)	2.68 (68.0)	1.10 (28.3)	.80 (20.70)	3M5011-ND	25.18	201.44	264-1300-00-0602J
90		3.77 (95.7)	3.59 (91.3)	1.23 (31.3)	.90 (22.86)	3M5012-ND	40.26	322.08	290-1294-00-3302J
SOIC Lidded Sockets									
8	Gold	1.45 (36.8)	.47 (11.9)	—	—	3M5054-ND	17.94	143.52	208-7391-55-1902
14		1.45 (36.8)	.47 (11.9)	—	—	3M5055-ND	20.24	161.92	214-7390-55-1902
16		1.59 (40.4)	.57 (14.5)	—	—	3M5077-ND	21.48	171.84	216-7224-55-1902
16		1.45 (36.8)	.47 (11.9)	—	—	3M5078-ND	21.48	171.84	216-7383-55-1902
18		1.59 (40.4)	.57 (14.5)	—	—	3M5056-ND	22.04	176.32	218-7223-55-1902
20	Gold	1.59 (40.4)	.57 (14.5)	—	—	3M5057-ND	23.28	186.24	220-7201-55-1902
24		1.69 (42.9)	.80 (20.3)	—	—	3M5058-ND	25.72	205.76	224-7397-55-1902
28		1.69 (42.9)	.80 (20.3)	—	—	3M5059-ND	28.12	224.96	228-7396-55-1902
28		1.69 (42.9)	.80 (20.3)	—	—	3M5060-ND	28.12	224.96	228-7474-55-1902
In-Line ZIP Strip Sockets									
10	Gold	1.77 (45.0)	1.60 (40.8)	—	—	3M5061-ND	26.10	208.80	210-2599-00-0602
20		2.77 (70.4)	2.57 (65.3)	—	—	3M5062-ND	29.44	235.52	220-2600-00-0602
24		3.15 (80.0)	2.97 (75.4)	—	—	3M5063-ND	30.50	244.00	224-5809-00-0602
32		3.97 (100.8)	3.81 (96.8)	—	—	3M5064-ND	32.64	261.12	232-2601-00-0602
36		4.35 (110.5)	4.17 (105.9)	—	—	3M5065-ND	33.64	269.12	236-6225-00-0602

Matrix Size	Description	Digi-Key Part No.	Pricing		3M Part No.
			1	10	
PGA ZIP Sockets					
10 x 10	Socket Kit without Contacts	3M5066-ND	29.12	232.96	200-6310-9UN-1900
11 x 11	Socket Kit without Contacts	3M5067-ND	29.20	233.60	200-6311-9UN-1900
13 x 13	Socket Kit without Contacts	3M5068-ND	29.54	236.32	200-6313-9UN-1900
15 x 15	Socket Kit without Contacts	3M5069-ND	50.06	400.48	200-6315-9UN-1900
17 x 17	Socket Kit without Contacts	3M5070-ND	45.28	362.24	200-6317-9UN-1900
19 x 19	Socket Kit without Contacts	3M5071-ND	53.84	430.72	200-6319-9UN-1900
21 x 21	Socket Kit without Contacts	3M5072-ND	64.74	517.92	200-6321-9UN-1900
25 x 25	Socket Kit without Contacts	3M5073-ND	86.20	689.60	200-6325-9UN-1900
—	Socket Contact - BeCu/Au Plated	3M5074-ND	.22	1.76	300-6300-CNA-0002B
—	Extra Hole Plugs - Set of 10	3M5075-ND	1.50	12.00	200-4660-14-1900

DIP Sockets

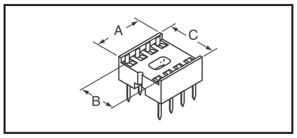

Features:
- Dual leaf, high compression contact provides reliable termination • Side and end stackable

Specifications:
- Insulation Material: Polyester glass filled • Flammability: UL 94V-0 • Color: Black • Underplating: 35μ" min. Nickel overall • Surface Plating: 135μ" min. Matte Tin overall • Current Rating: 1 Amp • Temperature Rating: -25°C ~ 85°C

No. of Contact	Dimensions — Inch (mm)			Digi-Key Part No.	Pricing			3M Part No.
	A	B	C		1	10	100	
Straight Tail								
8	.395 (10.03)	.300 (7.62)	.400 (10.16)	3M5461-ND	.18	1.56	12.60	4808-3000-CP
14	.695 (17.65)	.300 (7.62)	.400 (10.16)	3M5462-ND	.15	1.30	10.50	4814-3000-CP
16	.795 (20.19)	.300 (7.62)	.400 (10.16)	3M5463-ND	.15	1.30	10.50	4816-3000-CP
18	.895 (22.73)	.300 (7.62)	.400 (10.16)	3M5464-ND	.21	1.82	14.70	4818-3000-CP
20	.995 (25.27)	.300 (7.62)	.400 (10.16)	3M5465-ND	.21	1.82	14.70	4820-3000-CP
24	1.195 (30.35)	.300 (7.62)	.400 (10.16)	3M5466-ND	.24	2.08	16.80	4824-3000-CP
24	1.195 (30.35)	.600 (15.24)	.700 (17.78)	3M5467-ND	.24	2.08	16.80	4824-6000-CP
28	1.395 (35.43)	.600 (15.24)	.700 (17.78)	3M5469-ND	.27	2.34	18.90	4828-6000-CP
32	1.595 (40.51)	.600 (15.24)	.700 (17.78)	3M5470-ND	.30	2.60	21.00	4832-6000-CP
40	1.995 (50.67)	.600 (15.24)	.700 (17.78)	3M5471-ND	.39	3.38	27.30	4840-6000-CP
48	2.395 (60.83)	.600 (15.24)	.700 (17.78)	3M5472-ND	.48	4.16	33.60	4848-6000-CP

No. of Contact	Dimensions — Inch (mm)			Digi-Key Part No.	Pricing			3M Part No.
	A	B	C		1	10	100	
Kinked Tail								
8	.395 (10.03)	.300 (7.62)	.400 (10.16)	3M5473-ND	.18	1.56	12.60	4808-3004-CP
14	.695 (17.65)	.300 (7.62)	.400 (10.16)	3M5474-ND	.18	1.56	12.60	4814-3004-CP
16	.795 (20.19)	.300 (7.62)	.400 (10.16)	3M5475-ND	.18	1.56	12.60	4816-3004-CP
18	.895 (22.73)	.300 (7.62)	.400 (10.16)	3M5476-ND	.24	2.08	16.80	4818-3004-CP
20	.995 (25.27)	.300 (7.62)	.400 (10.16)	3M5477-ND	.24	2.08	16.80	4820-3004-CP
24	1.195 (30.35)	.300 (7.62)	.400 (10.16)	3M5478-ND	.30	2.60	21.00	4824-3004-CP
28	1.395 (35.43)	.300 (7.62)	.400 (10.16)	3M5480-ND	.30	2.60	21.00	4828-3004-CP
24	1.195 (30.35)	.600 (15.24)	.700 (17.78)	3M5479-ND	.30	2.60	21.00	4824-6004-CP
28	1.395 (35.43)	.600 (15.24)	.700 (17.78)	3M5481-ND	.33	2.86	23.10	4828-6004-CP
32	1.595 (40.51)	.600 (15.24)	.700 (17.78)	3M5482-ND	.39	3.38	27.30	4832-6004-CP
40	1.995 (50.67)	.600 (15.24)	.700 (17.78)	3M5483-ND	.48	4.16	33.60	4840-6004-CP
48	2.395 (60.83)	.600 (15.24)	.700 (17.78)	3M5484-ND	.57	4.94	39.90	4848-6004-CP

3M OEM Type "A" LCC Sockets

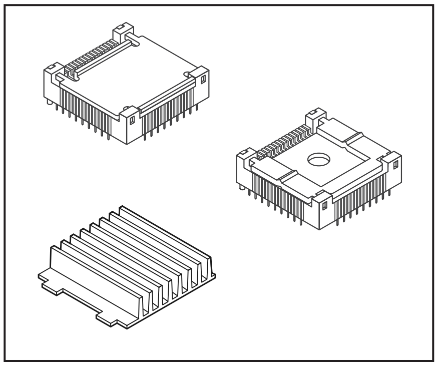

Features:

• Accepts JEDEC leadless type "A" ceramic chip carriers • Variety of lid options available • "U" lid for I.C.E. adapter I/O cable egress • Heat Sink(s) acceptable and available • Thruster spring helps register substrate three corner notches, maintain centering • Polarizing post on bottom of socket • Through hole contact tails • No tools required for package insertion/removal • Full contact probe-ability • High temperature PPS plastic and BeCu contacts for rugged performance

Physical Specifications:

• Insulation: • Material: Glass Filled Polyphenylene Sulfide (PPS) • Flammability: UL94V-0 • Color: Black • Lid Material: Aluminum • Latch Material: Stainless Steel • Thruster & Contact Material: Beryllium Copper (C172) Plating; Underplate: 50µ" (1.27µm) Nickel; Wiping Area: 30µ" (0.76µm) Gold; Solder Tails: 30µ" (0.76µm) Gold • Marking: Raised Letters

Electrical Specifications:

• Current Rating: 1 Amp • Insulation Resistance: $>1x10^{12}\Omega$ • Withstanding Voltage: 1000 Vrms at Sea Level

Environmental Specifications: • Operating Temperature Rating: -55° ~ 105°C

Lid Type	No./ Cont.	Digi-Key Part No.	Pricing 1	Pricing 10	3M Part No.
LCC Sockets					
Full	68	3M6809A-ND	11.37	99.09	268-5401-00-1102JH
No Lid	68	3M6809B-ND	11.37	99.09	268-5401-11-1102JH
U-Shaped	68	3M6809C-ND	10.80	94.07	268-5401-50-1102JH
Finned Heat Sink	68	3M6809D-ND	12.74	110.99	268-5401-52-1102JH
LCC Socket Lid					
Full	—	3MLLSF-ND	.64	5.56	268-5401-00-0000
U-Shaped	—	3MLLSU-ND	.71	6.20	268-5401-50-0000
Finned Heat Sink	—	3MLLSH-ND	2.44	21.18	268-5401-52-0000

3M IC Test Clips

Features:

- Simplifies prototype and production testing, field service work, and Quality Control.
- One-piece body for each DIP size. TC-14 fits 14-pin DIP, etc.
- High reliability Gold contacts.
- Proven 770 Alloy contacts.
- Rugged, engineering-grade thermoplastic body molded around contact pins
- Knife Edge contacts concentrate high normal force in a small area that break through oxides and conformal coatings

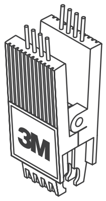

923690-08-ND Shown

No. of Pins	Row to Row (Inch)	Nail-Head Leads Digi-Key Part No.	Nail-Head Leads Price Each	Headless Leads Digi-Key Part No.	Headless Leads Price Each
Alloy 770					
8	.3	923695-ND	10.27	923690-08-ND	10.99
14	.3	923698-ND	10.35	923690-14-ND	11.27
16	.3	923700-ND	10.45	923690-16-ND	11.39
16	.5/.6	923702-ND	17.37	—	—
18	.3	923703-ND	14.69	923690-18-ND	15.72
20	.3	923704-ND	15.37	923690-20-ND	16.45
24	.5/.6	923714-ND	20.00	923690-24-ND	21.40
24	.3	—	—	923689-24-ND	21.40
28	.5/.6	923718-ND	24.00	923690-28-ND	25.69
28	.3	923717-ND	22.85	923689-28-ND	25.69
36	.5/.6	923720-ND	26.64	923690-36-ND	28.51
40	.5/.6	923722-ND	27.96	923690-40-ND	29.91
64	.9	923726-ND◆	42.59	—	—
Gold Plated					
8	.3	923743-08-ND	13.34	923739-08-ND	13.34
14	.3	923743-14-ND	13.70	923739-14-ND	13.70
16	.3	923743-16-ND	14.05	923739-16-ND	14.05
18	.3	923743-18-ND	19.00	923739-18-ND	19.74
20	.3	923743-20-ND	24.35	923739-20-ND	22.67
24	.5/.6	923743-24-ND	26.09	923739-24-ND	26.84
24	.3	923742-24-ND	26.09	923738-24-ND	26.09
28	.5/.6	923743-28-ND	31.36	923739-28-ND	34.66
28	.3	923742-28-ND	31.36	923738-28-ND	31.36
40	.5/.6	923743-40-ND	36.76	923739-40-ND	36.76
48	.5/.6	—	—	923739-48-ND	49.21
64	.9	—	—	923739-64-ND	56.31

◆ *RoHS Compliant*

No. of Pins	Description	Digi-Key Part No.	Price Each
Knife Edge Gold Plated — RoHS Compliant			
8	.300 Knife Edge Test Clip	927739-08-ND	21.09
16	.300 Knife Edge Test Clip	927739-16-ND	23.94
18	.300 Knife Edge Test Clip	927739-18-ND	32.41
20	.300 Knife Edge Test Clip	927739-20-ND	37.81
22	.300 Knife Edge Test Clip	927738-22-ND	41.31
24	.300 Knife Edge Test Clip	927738-24-ND	43.54
28	.300 Knife Edge Test Clip	927738-28-ND	52.79
22	.600 Knife Edge Test Clip	927739-22-ND	41.31
24	.600 Knife Edge Test Clip	927739-24-ND	45.58
28	.600 Knife Edge Test Clip	927739-28-ND	52.79
40	.600 Knife Edge Test Clip	927739-40-ND	62.33

3M Surface Mount Test Clips

by 3M Electronic Specialty Products

Features:

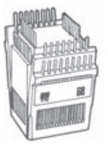

- Allow safe, convenient, fast and easy testing of normally hard-to-access. Small Outline Integrated Circuits (SOICs)
- Eight sizes available for .30" (7.62mm) and .15" (3.81mm) package sizes
- Helical compression springs and insulating contact combs ensure contact integrity during testing
- Permits devices stacked as close as .0505" (1.28mm) end-to-end to be tested simultaneously
- Standard .025" (.64mm) square contacts on .10" (2.54mm) centers at the probe end of the clip easily accept test probes or single row female socket connectors
- Steel hinge pin and glass filled polyester body provide long service life
- Available with alloy 764 unplated and gold plated leads
- Allows safe, convenient testing of Plastic Leaded Chip Carrier (PLCC) style ICs
- All four sides of test clip open simultaneously for fast and easy attachment to PLCC being tested
- Stays securely clamped to PLCC until removed
- Helical compression springs and insulating contact combs ensure contact integrity during testing
- Permits testing of ICs with as little as .200" (5.08mm) row to row spacing between devices
- Staggered contact rows on .100" (2.54mm) centers
- Industry standard .025" (.64mm) square contact pins on the .100" (2.54mm) centers
- Available with alloy 764 leads and gold plated leads.

No. of Pins	Description	Narrow Digi-Key Part No.	Narrow Price Each	Wide Digi-Key Part No.	Wide Price Each
		.150" SOIC		***.300" SOIC***	
8	Alloy 764	923650-08-ND	12.25	—	—
14	Alloy 764	923650-14-ND	12.40	—	—
16	Alloy 764	923650-16-ND	12.75	923660-16-ND	12.90
18	Alloy 764	—	—	923660-18-ND	13.65
20	Alloy 764	—	—	923660-20-ND	14.99
24	Alloy 764	—	—	923660-24-ND	15.47
28	Alloy 764	—	—	923660-28-ND	16.57
8	Gold Plated	923655-08-ND	12.75	—	—
14	Gold Plated	923655-14-ND	14.12	—	—
16	Gold Plated	923655-16-ND	13.99	923665-16-ND	14.82
18	Gold Plated	—	—	923665-18-ND	14.94
20	Gold Plated	—	—	923665-20-ND	15.45
24	Gold Plated	—	—	923665-24-ND	17.05
28	Gold Plated	—	—	923665-28-ND	18.30

No. of Pins	Description	PLCC Digi-Key Part No.	Price Each
PLCC			
20	Alloy 764	923670-20-ND	33.97
28	Alloy 764	923670-28-ND	36.02
44	Alloy 764	923670-44-ND	45.71
68	Alloy 764	923670-68-ND	61.81
20	Gold Plated	923675-20-ND	37.46
28	Gold Plated	923675-28-ND	44.33
44	Gold Plated	923675-44-ND	49.01
68	Gold Plated	923675-68-ND	57.74
84	Gold Plated	923675-84-I-ND	62.20

3M PLCC Chip Carrier Sockets

Features:

• Accepts chip carriers conforming to JEDEC outline MO-047 for square and MO-052 for rectangular • High temperature insulator compatible with IR reflow and wave soldering • Compatible with automated loading equipment • Open top design allows unrestricted air flow • Molded slots for ease of device extraction.

Physical Specifications:

• Insulation: • Material: Glass Filled Polyphenylene Sulfide (PPS) • Flammability: UL 94V-0 • Color: Black • Contact Material: Phosphor Bronze • Plating: Underplating: 50µ" (1.27µm) Nickel - Overall; Wiping Area: 160µ" ( ) Matte Tin

Fig. 1 — Thru-Hole Mount

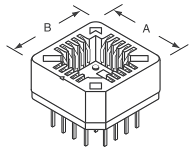

Fig. 2 — Surface Mount

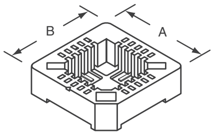

No. of Pins	Dimensions - Inch (mm) A	Dimensions - Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	3M Part No.
Fig. 1 — Low Profile, 4 Row, PLCC Thru-Hole Mount							
20	0.611 (15.50)	0.611 (15.50)	3M2011B1-ND	.81	.71	.57	8420-11B1-RK-TP
28	0.711 (18.05)	0.711 (18.05)	3M2811B1-ND	.93	.81	.66	8428-11B1-RK-TP
32	0.711 (18.05)	0.812 (20.60)	3M3211B1-ND	.99	.86	.70	8432-11B1-RK-TP
44	0.926 (23.50)	0.926 (23.50)	3M4411B1-ND	1.17	1.02	.82	8444-11B1-RK-TP
52	1.020 (25.88)	1.020 (25.88)	3M5211B1-ND	1.29	1.12	.91	8452-11B1-RK-TP
68	1.223 (31.05)	1.223 (31.05)	3M6811B1-ND	1.59	1.38	1.12	8468-11B1-RK-TP
84	1.420 (36.05)	1.420 (36.05)	3M8411B1-ND	1.86	1.62	1.31	8484-11B1-RK-TP
Fig. 2 — 4 Row, PLCC Surface Mount							
20	0.617 (15.65)	0.617 (15.65)	3M2021B1-ND	.84	.73	.59	8420-21B1-RK-TP
28	0.716 (18.18)	0.716 (18.18)	3M2821B1-ND	.87	.76	.61	8428-21B1-RK-TP
32	0.716 (18.18)	0.818 (20.75)	3M3221B1-ND	.96	.84	.68	8432-21B1-RK-TP
44	0.917 (23.28)	0.917 (23.28)	3M4421B1-ND	1.14	.99	.80	8444-21B1-RK-TP
52	1.018 (25.84)	1.018 (25.84)	3M5221B1-ND	1.26	1.10	.89	8452-21B1-RK-TP
68	1.219 (30.95)	1.219 (30.95)	3M6821B1-ND	1.53	1.33	1.08	8468-21B1-RK-TP
84	1.418 (36.00)	1.418 (36.00)	3M8421B1-ND	1.65	1.43	1.16	8484-21B1-RK-TP

No. of Pins	Dimensions - Inch (mm) A	Dimensions - Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	3M Part No.
Fig. 2 — 4 Row, PLCC Surface Mount with Location Post							
20	0.617 (15.65)	0.617 (15.65)	3M2021A1-ND	.84	.73	.59	8420-21A1-RK-TP
28	0.716 (18.18)	0.716 (18.18)	3M2821A1-ND	.87	.76	.61	8428-21A1-RK-TP
32	0.716 (18.18)	0.818 (20.75)	3M3221A1-ND	.96	.84	.68	8432-21A1-RK-TP
44	0.917 (23.28)	0.917 (23.28)	3M4421A1-ND	1.14	.99	.80	8444-21A1-RK-TP
52	1.018 (25.84)	1.018 (25.84)	3M5221A1-ND	1.26	1.10	.89	8452-21A1-RK-TP
68	1.219 (30.95)	1.219 (30.95)	3M6821A1-ND	1.53	1.33	1.08	8468-21A1-RK-TP
84	1.418 (36.00)	1.418 (36.00)	3M8421A1-ND	1.65	1.43	1.16	8484-21A1-RK-TP

No. of Pins	Dimensions - Inch (mm) A	Dimensions - Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape & Reel* Qty.	Tape & Reel* Pricing	3M Part No.
Fig. 2 — 4 Row, PLCC Surface Mount									
20	0.617 (15.65)	0.617 (15.65)	3M2021B1CT-ND	1.08	.94	.76	500	324.00	8420-21B1-RK-TR
28	0.716 (18.18)	0.716 (18.18)	3M2821B1CT-ND	1.08	.94	.76	450	291.60	8428-21B1-RK-TR
32	0.716 (18.18)	0.818 (20.75)	3M3221B1CT-ND	1.14	.99	.80	450	307.80	8432-21B1-RK-TR
44	0.917 (23.28)	0.917 (23.28)	3M4421B1CT-ND	1.38	1.20	.97	360	298.08	8444-21B1-RK-TR
52	1.018 (25.84)	1.018 (25.84)	3M5221B1CT-ND	1.56	1.36	1.10	350	327.60	8452-21B1-RK-TR
68	1.219 (30.95)	1.219 (30.95)	3M6821B1CT-ND	1.86	1.62	1.31	280	312.48	8468-21B1-RK-TR

* For Tape and Reel part number, change CT-ND to TR-ND.

3M Electromagnetic Compatible Products

3M EMC products can provide the following:

• EMI/RFI shielding and absorbing • Static charge grounding • Anti-static masking • Cushioning • Mechanical protection • Conductive properties for a wide variety of applications

Series	Size	Adhesive Type	Total Thickness mils/mm	Digi-Key Part No.	Price Each 1	Price Each 5	Price Each 10	3M Part No.
Aluminum Foil Tape								
1120	1"x 36yds.	Acrylic Conductive	4.0/0.102	3M1120C-ND	29.75	27.20	25.50	1120 X 1"
	1"x 1yd.			3M1120C-1YD-ND	1.65	1.18	1.07	1120 X 1"
	6"x 36yds.			3M1120D-ND	163.20	153.00	142.80	1120 X 6"
	6"x 1ft.			3M1120D-1FT-ND	3.31	2.37	2.13	1120 X 6"
1170	1"x 18yds.	Acrylic Conductive	3.2/0.081	3M1170C-ND	51.29	46.90	43.97	1170 X 1"
	1"x 1yd.			3M1170C-1YD-ND	4.48	3.42	3.26	1170 X 1"
	6"x 18yds.			3M1170D-ND	260.16	243.90	227.64	1170 X 6"
	6"x 1ft.			3M1170D-1FT-ND	7.53	6.03	5.42	1170 X 6"
1115	1"x 60yds.	Acrylic Conductive	7.0/0.177	3M1115C-ND	68.14	64.13	60.12	1115 X 1"
	1"x 1yd.			3M1115C-1YD-ND	2.34	1.67	1.51	1115 X 1"
	6"x 60yds.			3M1115D-ND	372.74	336.68	312.63	1115 X 6"
	6"x 1ft.			3M1115D-1FT-ND	3.67	2.81	2.68	1115 X 6"
Polyester-laminated Aluminum Foil Tape								
AL-36FR	1"x 54.5yds.	Acrylic Conductive	2.4/0.061	3M3600C-ND	21.00	19.20	18.00	AL-36FR X 1"
	1"x 1yd.			3M3600C-1YD-ND	.77	.55	.50	AL-36FR X 1"
	6"x 54.5yds.			3M3600D-ND	115.20	108.00	100.80	AL-36FR X 6"
	6"x 1ft.			3M3600D-1FT-ND	1.54	1.10	1.00	AL-36FR X 6"
AL-36NC	1"x 54.5yds.	Acrylic Non-conductive	2.2/0.055	3M3601C-ND	29.75	27.20	25.50	AL-36NC X 1"
	1"x 1yd.			3M3601C-1YD-ND	1.09	.78	.71	AL-36NC X 1"
	6"x 54.5yds.			3M3601D-ND	163.20	153.00	142.80	AL-36NC X 6"
	6"x 1ft.			3M3601D-1FT-ND	2.18	1.56	1.41	AL-36NC X 6"
AL-37BLK	1"x 21.8yds.	Acrylic Conductive	2.8/0.071	3M3700C-ND	34.44	31.49	29.52	AL-37BLK X 1"
	1"x 1yd.			3M3700C-1YD-ND	3.16	2.26	2.04	AL-37BLK X 1"
	6"x 21.8yds.			3M3700D-ND	188.93	177.12	165.32	AL-37BLK X 6"
	6"x 1ft.			3M3700D-1FT-ND	4.97	3.80	3.62	AL-37BLK X 6"
Copper Foil Tape								
1125	1"x 36yds.	Acrylic Non-conductive	3.5/0.089	3M1125C-ND	27.04	24.72	23.18	1125 X 1"
	1"x 1yd.			3M1125C-1YD-ND	1.50	1.08	.97	1125 X 1"
	6"x 36yds.			3M1125D-ND	151.20	141.75	132.30	1125 X 6"
	6"x 1ft.			3M1125D-1FT-ND	3.06	2.19	1.97	1125 X 6"
1126	1"x 36yds.	Acrylic Conductive	3.5/0.089	3M1126C-ND	51.63	47.20	44.25	1126 X 1"
	1"x 1yd.			3M1126C-1YD-ND	2.87	2.05	1.85	1126 X 1"
	6"x 36yds.			3M1126D-ND	283.20	265.50	247.80	1126 X 6"
	6"x 1ft.			3M1126D-1FT-ND	4.51	3.45	3.28	1126 X 6"
1181	1/4"x 18yds.	Acrylic Conductive	2.6/0.066	3M1181A-ND	11.36	9.74	8.44	1181 X 1/4"
	1/2"x 18yds.			3M1181B-ND	22.70	19.46	16.87	1181 X 1/2"
	1"x 18yds.			3M1181C-ND	45.40	41.51	38.91	1181 X 1"
	1"x 1yd.			3M1181C-1YD-ND	3.96	3.03	2.89	1181 X 1"
	6"x 18yds.			3M1181D-ND	230.21	215.82	201.44	1181 X 6"
	6"x 1ft.			3M1181D-1FT-ND	6.66	5.33	4.80	1181 X 6"
1182	1"x 18yds.	Acrylic Conductive, Double Sided	3.5/0.089	3M1182C-ND	54.43	49.76	46.65	1182 X 1"
	1"x 1yd.			3M1182C-1YD-ND	4.75	3.63	3.46	1182 X 1"
	6"x 18yds.			3M1182D-ND	276.10	258.84	241.59	1182 X 6"
	6"x 1ft.			3M1182D-1FT-ND	7.99	6.40	5.76	1182 X 6"
1194	1"x 36yds.	Acrylic Non-conductive	2.6/0.066	3M1194C-ND	34.81	31.83	29.84	1194 X 1"
	1"x 1yd.			3M1194C-1YD-ND	1.93	1.39	1.25	1194 X 1"
	6"x 36yds.			3M1194D-ND	176.54	165.51	154.48	1194 X 6"
	6"x 1ft.			3M1194D-1FT-ND	3.07	2.30	2.05	1194 X 6"
Tin-plated Copper Foil Tape								
1183	1"x 18yds.	Acrylic Conductive	2.6/0.066	3M1183C-ND	48.55	44.39	41.61	1183 X 1"
	1"x 1yd.			3M1183C-1YD-ND	4.24	3.24	3.09	1183 X 1"
	6"x 18yds.			3M1183D-ND	246.24	230.85	215.46	1183 X 6"
	6"x 1ft.			3M1183D-1FT-ND	7.13	5.70	5.13	1183 X 6"
Embossed Copper Foil Tape								
1245	1"x 18yds.	Acrylic Non-conductive	4.0/0.102	3M1245C-ND	39.31	35.94	33.69	1245 X 1"
	1"x 1yd.			3M1245C-1YD-ND	3.74	2.81	2.50	1245 X 1"
	6"x 18yds.			3M1245D-ND	199.39	186.93	174.47	1245 X 6"
	6"x 1ft.			3M1245D-1FT-ND	5.77	4.62	4.16	1245 X 6"
Embossed Aluminum Foil Tape								
1267	1"x 18yds.	Acrylic Non-conductive	5.0/0.127	3M1267C-ND	41.09	37.57	35.22	1267 X 1"
	1"x 1yd.			3M1267C-1YD-ND	3.59	2.74	2.61	1267 X 1"
	6"x 18yds.			3M1267D-ND	218.88	205.20	191.52	1267 X 6"
	6 x1ft.			3M1267D-1FT-ND	6.33	5.07	4.56	1267 X 6"

Series	Size	Adhesive Type	Total Thickness mils/mm	Digi-Key Part No.	Price Each 1	Price Each 5	Price Each 10	3M Part No.
Embossed Tin-plated Copper Foil Tape								
1345	1"x 18yds.	Acrylic Non-conductive	4.0/0.102	3M1345C-ND	44.12	40.34	37.82	1345 X 1"
	1"x 1yd.			3M1345C-1YD-ND	3.85	2.95	2.81	1345 X 1"
	6"x 18yds.			3M1345D-ND	223.78	209.79	195.81	1345 X 6"
	6"x 1ft.			3M1345D-1FT-ND	6.48	5.18	4.67	1345 X 6"
Silver-coated Polyester Fabric Tape								
AG-2300	1"x 54.5yds.	Acrylic Conductive	4.3/0.110	3M2300C-ND	142.40	133.50	124.60	AG-2300 X 1"
	1"x 1ft.			3M2300C-1FT-ND	1.91	1.36	1.23	AG-2300 X 1"
	6"x 54.5yds.			3M2300D-ND	774.30	720.90	694.20	AG-2300 X 6"
	6"x 1ft.			3M2300D-1FT-ND	8.17	6.54	5.88	AG-2300 X 6"
Gold-coated Polyester Fabric Tape								
AU-2190	1"x 54.5yds.	Acrylic Conductive	4.3/0.110	3M2190C-ND	138.59	129.93	121.27	AU-2190 X 1"
	1"x 1ft.			3M2190C-1FT-ND	1.85	1.33	1.20	AU-2190 X 1"
	6"x 54.5yds.			3M2190D-ND	753.59	701.63	675.64	AU-2190 X 6"
	6"x 1ft.			3M2190D-1FT-ND	7.95	6.36	5.73	AU-2190 X 6"
Copper-plated Polyester Ripstop Fabric Tape								
X-7001	1"x 10.9yds.	Acrylic Conductive Double Sided	4.3/0.110	3M7001C-ND	83.73	78.80	73.88	X-7001 X 1"
	1" x 1 ft.			3M7001C-1FT-ND	4.14	3.17	3.02	X-7001 X 1"
	6"x 10.9yds.			3M7001D-ND	443.25	413.70	384.15	X-7001 X 6"
	6"x 1ft.			3M7001D-1FT-ND	18.98	15.82	14.92	X-7001 X 6"
Nickel on Copper-plated Polyester Ripstop Fabric Tape								
CN-3190	1"x 54.5yds.	Acrylic Conductive	4.3/0.110	3M3190C-ND	125.57	117.72	109.88	CN 3190 X 1"
	1"x 1ft.			3M3190C-1FT-ND	1.68	1.20	1.08	CN 3190 X 1"
	6"x 54.5yds.			3M3190D-ND	682.78	635.69	612.15	CN 3190 X 6"
	6"x 1ft.			3M3190D-1FT-ND	7.20	5.76	5.19	CN 3190 X 6"
eCAP 7830N — PET Fabric Pads, XYZ-AXIS (Conductive Gaskets)								
7830N	9.45"x 54.5yds.	Acrylic Nickel-coated Graphite	0.2mm	3M7830A-ND	891.03	827.39	811.48	ECAP 7830N .2
	9.45"x 1ft.			3M7830A-1FT-ND	9.73	7.79	7.01	ECAP 7830N .2
7830N	9.45"x 54.5yds.		0.3mm	3M7830B-ND	1032.58	958.83	940.39	ECAP 7830N .3
	9.45"x 1ft.			3M7830B-1FT-ND	11.28	9.03	8.12	ECAP 7830N .3
EMI Absorber Pads								
AB-5010	8.26"x 16.35yds.	Acrylic Non-conductive	0.10mm	3M5010D-ND	845.35	784.97	769.88	AB-5010 X 8.26"
	8.26" x 1ft.			3M5010D-1FT-ND	24.62	20.93	19.70	AB-5010 X8.26"
AB-5020	8.26"x 16.35yds.		0.20mm	3M5020D-ND	886.09	822.80	806.98	AB-5020 X 8.26"
	8.26"x 1ft.			3M5020D-1FT-ND	25.81	21.94	20.65	AB-5020 X 8.26"
AB-5030	8.26"x 16.35yds.		0.30mm	3M5030D-ND	1018.50	945.75	927.57	AB-5030 X 8.26"
	8.26"x 1ft.			3M5030D-1FT-ND	29.66	25.22	23.74	AB-5030 X 8.26"
AB-5050	8.26"x 16.35yds.		0.50mm	3M5050D-ND	1171.27	1087.61	1066.70	AB-5050 X 8.26"
	8.26" x 1ft.			3M5050D-1FT-ND	34.11	29.00	27.29	AB-5050 X 8.26"
AB-5100	8.26"x 10.9yds.		1.00mm	3M5100D-ND	998.13	926.84	909.02	AB-5100 X 8.26"
	8.26"x1ft.			3M5100D-1FT-ND	43.61	37.07	34.89	AB-5100 X 8.26"

Series	Size	Adhesive Type	Temperature Rating	Digi-Key Part No.	Price Each 1	Price Each 5	Price Each 10	3M Part No.
High Temperature Polyimide Electrical Tape								
92	1/2"x 36yds.	Silicone	180°C	3M92A-ND	22.56	20.63	19.34	92 X 1/2"
	1"x 36yds.			3M92B-ND	45.12	41.25	38.67	92 X 1"
1093	1/2"x 36yds.	Silicone	180°C	3M1093A-ND	22.56	20.63	19.34	1093 X 1/2"
	1"x 36yds.			3M1093B-ND	45.12	41.25	38.67	1093 X 1"
1205	1/2"x 36yds.	Acrylic	155°C	3M1205A-ND	20.42	18.68	17.51	1205 X 1/2"
	1"x 36yds.			3M1205B-ND	40.86	37.36	35.03	1205 X 1"
1206	1/2"x 36yds.	Acrylic	155°C	3M1206A-ND	20.42	18.68	17.51	1206 X 1/2"
	1"x 36yds.			3M1206B-ND	40.86	37.36	35.03	1206 X 1"
1218	1/2" x 36 yds.	Acrylic	180°C	3M1218A-ND	21.88	20.00	18.75	1218 X 1/2"
	1" x 36 yds.			3M1218B-ND	43.75	40.00	37.50	1218 X 1"
Tape Dispensers								
Tape Dispenser with weighted base holds tape 6" wide x 6 7/8" max. diameter				3M56W-ND	69.16	63.24	59.28	P56W
Tape Dispenser without weighted base holds tape 8" wide x 7 1/2" max. diameter				3M448-ND	106.57	96.89	93.66	P448
Tape Dispenser holds tape 2" wide x 6" max. dia. *(use for transfer tape)*............................				3M712-ND	198.38	185.59	179.19	M712

ANALOG DEVICES RF Transceivers

Description	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
RoHS Compliant					
IC Transmitter ASK/FSK/GFSK	24-TSSOP	ADF7012BRUZ-ND	4.50	3.60	2.80
IC Transmitter FSK/ASK ISM Band	48-LFCSP	ADF7020BCPZ-ND	5.15	4.13	3.21
IC Transmitter FSK/ASK ISM Band	48-LFCSP	ADF7020-1BCPZ-ND	5.15	4.13	3.21
IC Transceiver ISM High Performance	48-LFCSP	ADF7021BCPZ-ND	6.10	4.88	4.12
IC Transceiver ISM High Performance	48-LFCSP	ADF7021-NBCPZ-ND ***NEW!***	6.10	4.88	4.12
ISM Band Low Power, Zero-IF RF Transceiver IC	48-LFCSP	ADF7025BCPZ-ND	6.10	4.88	4.12
IC Transmitter OOK/FSK ISM Band	24-TSSOP	ADF7901BRUZ-ND	4.50	3.60	2.80

ADF70XX development platform for the ADF702X family of ISM band transceivers. The kit allows you to both evaluate and develop a low power, low data rate, wireless network using any of the ADF702X ISM band transceivers with the ADLISMLINK proprietary protocol. **Development Kit Contents for EVAL-ADF70XXMB2**: • 31 x Controller board • 3.6V Lithium battery • USB Cable • Serial Port Cable • Demo/Evaluation Software (ADF7020Demo.exe and ADF7020Registers.exe) • Application Development Code (restricted source code) • Comprehensive Documentation **Development Kit Contents for EVAL-ADF70XXMB:** Same as **EVAL-ADF70XXMB2** except it does not come with ADLISMLINK and source code.

Description	Digi-Key Part No.	Price Each
Mother Board for ADLISMLINK Development................	EVAL-ADF70XXMBZ2-ND◆	161.25
Evaluation Board for ADF7010	EVAL-ADF7010EB1-ND	134.16
Evaluation Board DB1 for ADF7012	EVAL-ADF7012DBZ1-ND◆	53.75
Evaluation Board DB2 for ADF7012	EVAL-ADF7012DBZ2-ND◆	53.75
Evaluation Board DB3 for ADF7012	EVAL-ADF7012DBZ3-ND◆	53.75
Evaluation Board DB4 for ADF7012	EVAL-ADF7012DBZ4-ND◆	53.75
Daughter Board for ADF7012	EVAL-ADF7012DBZ5-ND◆	53.75

Description	Digi-Key Part No.	Price Each
Evaluation Board for ADF7020	EVAL-ADF7020DBZ1-ND◆	53.75
Evaluation Board for ADF7020, 433 ~ 445MHz..............	EVAL-ADF7020DB3-ND	64.50
Evaluation Board for ADF7020, 433 ~ 445MHZ	EVAL-ADF7020DBZ3-ND◆	53.75
Evaluation Board for ADF7020, 862 ~ 870MHZ	EVAL-ADF7020DBZ2-ND◆	53.75
Evaluation Board for ADF7020-1, 405 ~ 435MHz	EVAL-ADF7020-1DB4-ND	64.50
Evaluation Board for ADF7020-1, 405 ~ 435MHZ............	EVAL-ADF7020-1DBZ4-ND◆	53.75
Evaluation Board for ADF7020-2, Adjustable Frequencies ...	EVAL-ADF7020-1DBZ5-ND◆	53.75
Evaluation Board for ADF7020-1, 470 ~ 510MHz	EVAL-ADF7020-1DB6-ND	64.50
Evaluation Board for ADF7020-1, 470 ~ 510MHZ............	EVAL-ADF7020-1DBZ6-ND◆	53.75
Evaluation Board for ADF7020-1, 310 ~ 340MHz	EVAL-ADF7020-1DB7-ND	64.50
Evaluation Board for ADF7020-1, 310 ~ 340MHZ............	EVAL-ADF7020-1DBZ7-ND◆	53.75
Evaluation Board for ADF7020-1, 128 ~ 142MHZ............	EVAL-ADF7020-1DBZ8-ND◆	53.75
Evaluation Board for ISM ADF7021	EVAL-ADF7021DBZ2-ND◆	53.75
Evaluation Board for ADF7021	EVAL-ADF7021DBZ5-ND◆ ***NEW!***	53.75
Evaluation Board for ADF7021, 608 ~ 614 MHz..............	EVAL-ADF7021DBZ6-ND◆ ***NEW!***	53.75
Daughter Board for ADF7021	EVAL-ADF7021DBZ3-ND◆	53.75
Evaluation Board for ADF7025	EVAL-ADF7025DB1-ND	64.50
Evaluation Board for ADF7025, 902 ~ 928MHz..............	EVAL-ADF7025DBZ1-ND◆	53.75
Development Kit ADF702X for BF533EZKIT..................	EVAL-ADF70XXEKZ1-ND◆	53.75
Evaluation Board for ADF7901	EVAL-ADF7901EB-ND	90.30

◆ ***RoHS Compliant***

ANALOG DEVICES

RMS Detectors

Voltage Supply (V)	Supply Current (mA)	RF Freq. (MHz)	Dy-namic Range	Accu-racy (dB)	Response Time (ns)	Package	Digi-Key Part No.	Price Each		
								1	25	100
2.7 ~ 5.5	1.1	2,500	30dB	0.25	320	8-MSOP	AD8361ARMZ-ND	7.90	6.32	5.34
2.7 ~ 5.5	1.1	2,500	30dB	0.25	320	SOT-23-6 SOT-23-6	AD8361ARTZ-RL7CT-ND‡ AD8361ARTZ-R3L7TR-ND†	7.50	6.00 13950.00/3,000	5.07
4.5 ~ 5.5	20	3,800	60dB	0.50	45	16-TSSOP	AD8362ARUZ-ND	12.50	11.25	9.98
2.7 ~ 5.5	1.1	6,000	30dB	0.25	10,000	4-WLCSP	ADL5500ACBZ-P7CT-ND‡ ADL5500ACBZ-P7TR-ND†	6.19	4.95 10230.00/3,000	3.85
4.5 ~ 5.5	70	2,700	60dB	0.50	—	32-LFCSP	AD8364ACPZ-REEL7CT-ND‡ AD8364ACPZ-REEL7TR-ND†	15.81	14.24 17580.23/1,500	12.63
2.7 ~ 5.5	1.1	6,000	30dB	0.50	6,000	SC70-6	ADL5501AKSZ-R7CT-ND‡ ADL5501AKSZ-R7TR-ND†	5.38	4.31 9034.20/3,000	3.35

‡ Cut Tape † Tape and Reel

Gain Blocks

Freq. Range (MHz)	Gain (dB)	Output IP3 (dBm)	Noise Fig. (dB)	Supply Voltage (V)	Supply Current (mA)	Package	Digi-Key Part No.	Price Each		
								1	25	100
3,000	26	27	—	5.0	32	10-MSOP	AD8351ARMZ-ND	6.60	5.28	4.46
10 ~ 2,500	18	41	—	5.5	37	16-LFCSP	AD8352ACPZ-R7CT-ND‡ AD8352ACPZ-R7TR-ND†	6.98	5.59 6543.75/1,500	4.72
1 ~ 2,700	20	23.6	5.3	5.0	42	8-LFCSP	AD8353ACPZ-REEL7CT-ND‡ AD8353ACPZ-REEL7TR-ND†	1.44	1.20 1872.00/3,000	.96
1 ~ 2,700	20	19	4.2	5.0	31	8-LFCSP	AD8354ACPZ-REEL7CT-ND‡ AD8354ACPZ-REEL7TR-ND†	1.44	1.20 1872.00/3,000	.96
700 ~ 1,000	20	43	5.0	5.0	320	8-LFCSP	ADL5322ACPZ-R7CT-ND‡ ADL5322ACPZ-R7TR-ND†	6.96	5.57 6525.00/1,500	4.70
1,700 ~ 2,400	20	43	4.6	5.0	320	8-LFCSP	ADL5323ACPZ-R7CT-ND‡ ADL5323ACPZ-R7TR-ND†	6.96	5.57 6525.00/1,500	4.70
dc ~ 1,000	16.5	37	3.0	3.0 ~ 5.0	110	8-LFCSP	ADL5530ACPZ-R7CT-ND‡ ADL5530ACPZ-R7TR-ND†	3.51	2.81 5896.80/3,000	2.19
50 ~ 6,000	14.7	39.2	3.8	5.0	92	8-LFCSP	ADL5541ACPZ-R7CT-ND‡ ADL5541ACPZ-R7TR-ND†	3.71	2.97 3155.63/1,500	2.31
50 ~ 6,000	18.7	39	3.2	5.0	92	8-LFCSP	ADL5542ACPZ-R7CT-ND‡ ADL5542ACPZ-R7TR-ND†	3.71	2.97 3155.63/1,500	2.31
20 ~ 500	20	39	2.5	5.0	100	8-LFCSP	ADL5531ACPZ-R7CT-ND‡★ ADL5531ACPZ-R7TR-ND†★	4.16	3.33 3538.13/1,500	2.59

★ ***NEW!*** ‡ Cut Tape † Tape and Reel

Active RF Splitter

Primary Function	-3dB Bandwidth (GHz)	Voltage Supply (V)	No. of Outputs	Package	Digi-Key Part No.	Price Each		
						1	25	100
Active RF Splitter	1.3	5.0	4	20-LFCSP	ADA4302-4ACPZ-RL7CT-ND† ADA4302-4ACPZ-RL7TR-ND‡	5.20	4.16 4875.00/1,500	3.51
Two-output Active Splitter	1.7	5.0	2	12-LFCSP	ADA4303-2ACPZ-R7CT-ND† ADA4303-2ACPZ-R7TR-ND‡	1.98	1.58 1540.50/1,500	1.19
Active RF Splitter	1.6	5.0	2	16-LFCSP	ADA4304-2ACPZ-R7CT-ND† ADA4304-2ACPZ-R7TR-ND‡	1.73	1.38 1345.50/1,500	1.04
Active RF Splitter	2.4	5.0	3	16-LFCSP	ADA4304-3ACPZ-R7CT-ND†★ ADA4304-3ACPZ-R7TR-ND‡★	2.48	1.98 1930.50/1,500	1.49
Active RF Splitter	2.4	5.0	4	16-LFCSP	ADA4304-4ACPZ-R7CT-ND† ADA4304-4ACPZ-R7TR-ND‡	3.58	2.87 3040.88/1,500	2.23

★ ***NEW!*** † Cut Tape ‡ Tape and Reel

Log Amp and Detector

RF Freq. (MHz)	Dynamic Range (dB)	Accu-racy (dB)	Response Time (ns Typ.)	Supply Voltage (V)	Supply Current (mA)	Package	Digi-Key Part No.	Price Each		
								1	25	100
—	80	±0.4	400	—	—	16-DIP	AD606JNZ-ND◆	42.86	40.00	37.15
—	50	±0.55	10	—	—	20-DIP	AD640JNZ-ND◆	51.45	48.02	44.59
—	44	±0.5	10	—	—	20-PLCC	AD641AP-ND	48.39	45.17	41.94
2,700	60	±0.2	60	2.7 ~ 5.5	19	14-TSSOP	AD8302ARUZ-ND◆	22.50	21.00	19.50
—	160	±0.1	100	3 ~ 5.5	4.5	14-TSSOP	AD8304ARU-ND AD8304ARUZ-ND◆	22.70 20.63	21.19 19.25	19.67 17.88
—	100	±0.3	1,000	3 ~ 12	5.0	16-LFCSP	AD8305ACPZ-RL7CT-ND‡◆ AD8305ACPZ-RL7TR-ND†◆	13.01	11.72 14468.03/1,500	10.39
5~400	100	±0.4	73	2.7 ~ 5.5	16	16-SOIC	AD8306ARZ-ND◆	27.75	25.90	24.05
dc~500	92	±1	400	2.7 ~ 5.5	8.0	8-Dip 8-SOIC	AD8307ANZ-ND◆ AD8307ARZ-ND◆	11.83 11.83	10.65 10.65	9.45 9.45
dc~500	92	±1	400	2.7 ~ 5.5	8.0	8-SOIC 8-SOIC 8-SOIC	AD8307ARZ-RL7CT-ND‡◆ AD8307ARZ-RL7TR-ND†◆ AD8307AR-REEL7CT-ND‡	11.83 13.01	10.65 6656.25/750 11.72	9.45 10.39
5~500	100	±0.4	67	2.7 ~ 5.5	16	16-TSSOP	AD8309ARUZ-ND◆	16.24	14.63	12.97
dc~440	100	±0.4	15	2.7 ~ 5.5	8.0	8-MSOP	AD8310ARMZ-ND◆	9.90	7.92	6.69
50~ 3,500	48	±0.5	70	2.7 ~ 5.5	4.2	6-WLCSP	AD8312ACBZ-P7CT-ND‡◆ AD8312ACBZ-P7TR-ND†◆	2.81	2.25 4725.00/3,000	1.75
100~ 2,500	70	±1	40	2.7 ~ 5.5	14	8-MSOP	AD8313ARMZ-ND◆	18.38	17.15	15.93
100~ 2,700	45	±0.5	70	2.7 ~ 5.5	4.5	8-LFCSP	AD8314ACPZ-RL7CT-ND‡◆ AD8314ACPZ-RL7TR-ND†◆	2.45	1.97 4120.20/3,000	1.53
100~ 2,700	45	±0.5	70	2.7 ~ 5.5	4.5	8-MSOP	AD8314ARMZ-REEL7CT-ND‡◆ AD8314ARMZ-REEL7TR-ND†◆	9.48	7.59 5925.00/1,000	6.40
100~ 2,700	45	±0.5	70	2.7 ~ 5.5	4.5	8-MSOP	AD8314ARMZ-ND◆	9.48	7.59	6.40
1~ 10,000	50	±1	8	3 ~ 5.5	20	8-LFCSP	AD8317ACPZ-R7CT-ND‡◆ AD8317ACPZ-R7TR-ND†◆	7.86	6.29 14619.60/3,000	5.31
1~ 8,000	60	±1	10	4.5 ~ 5.5	68	16-LFCSP	AD8318ACPZ-REEL7CT-ND‡◆ AD8318ACPZ-REEL7TR-ND†◆	9.98	8.99 11096.48/1,500	7.97
1kHz~ 10,000	64	±0.5	8/10	3 ~ 5.5	56	32-LFCSP	ADL5519ACPZ-R7CT-ND‡◆ ADL5519ACPZ-R7TR-ND†◆	9.96	7.97 9337.50/1,500	6.73
Evaluation Board for AD8314							AD8314-EVAL-ND	111.38	—	—
Evaluation Board for AD8314							AD8314ACP-EVAL-ND	111.38	—	—

‡ Cut Tape † Tape and Reel ◆ ***RoHS Compliant***

Mod/Demod

Mod/ Demod	RF Freq. (MHz)	IQ Freq. (MHz)	Ampli-tude Error	Noise Floor (dBm/Hz)	Voltage Supply (V)	Package	Digi-Key Part No.	Price Each		
								1	25	100
Demod	dc ~ 50	—	0.05dB	-166	—	32-LFCSP	AD8333ACPZ-WP-ND	15.44	14.41	13.38
Demod	dc ~ 50	50	0.25dB	—	±5.0	40-LFCSP	AD8339ACPZ-ND	20.61	19.24	17.87
Vector Mod	700 ~ 1,000	—	—	-149	5.0	24-LFCSP	AD8340ACPZ-REEL7CT-ND‡ AD8340ACPZ-REEL7TR-ND†	16.66	15.00 18525.00/1,500	13.30
Mod	250 ~ 1,000	80	0.2dB	-155	2.7 ~ 5.5	16-TSSOP	AD8345AREZ-ND	8.68	7.82	6.93
Mod	800 ~ 2,500	70	0.2dB	-147	2.7 ~ 5.5	16-TSSOP	AD8346ARUZ-ND	9.24	7.40	6.24
Demod	800 ~ 2,700	65	0.3dB	—	2.7 ~ 5.5	28-TSSOP	AD8347ARUZ-ND	10.41	9.38	8.32
Demod	50 ~ 1,000	75	0.25dB	—	2.7 ~ 5.5	28-TSSOP	AD8348ARUZ-ND	9.15	8.24	7.31
Mod	2,700	160	0.1dB	-156	5.0	16-TSSOP	AD8349AREZ-ND	8.68	7.82	6.93
Mod	250 ~ 1300	700	—	-156	4.75 ~ 5.5	24-LFCSP	ADL5370ACPZ-R7CT-ND‡ ADL5370ACPZ-R7TR-ND†	9.96	7.97 9337.50/1,500	6.73
Mod	700 ~ 1300	700	—	-156	4.75 ~ 5.5	24-LFCSP	ADL5371ACPZ-R7CT-ND‡★ ADL5371ACPZ-R7TR-ND†★	9.96	7.97 9337.50/1,500	6.73
Mod	2300 ~ 3000	700	—	-156	4.75 ~ 5.5	24-LFCSP	ADL5373ACPZ-R7CT-ND‡★ ADL5373ACPZ-R7TR-ND†★	9.96	7.97 9337.50/1,500	6.73
Mod	2800 ~ 4000	700	—	-155	4.75 ~ 5.5	24-LFCSP	ADL5374ACPZ-R7CT-ND‡ ADL5374ACPZ-R7TR-ND†	9.96	7.97 18525.60/3,000	6.73
Mod	400 ~ 6000	500	—	-161	4.75 ~ 5.25	24-LFCSP	ADL5375-05ACPZ-R7CT-ND‡★ ADL5375-05ACPZ-R7TR-ND†★	9.96	7.97 18525.60/3,000	6.73
DeMod	700 ~ 2700	370	0.05	—	4.75 ~ 5.25	24-LFCSP	ADL5382ACPZ-R7CT-ND‡★ ADL5382ACPZ-R7TR-ND†★	8.70	7.83 9670.05/1,500	6.95
Mod	50 ~ 2200	500	0.03	-160	4.75 ~ 5.5	24-LFCSP	ADL5385ACPZ-R7CT-ND‡ ADL5385ACPZ-R7TR-ND†	9.96	7.97 9337.50/1,500	6.73
DeMod	50 ~ 2000	240	0.05	—	5.0	24-LFCSP	ADL5387ACPZ-R7CT-ND‡ ADL5387ACPZ-R7TR-ND†	10.44	8.36 9670.05/1,500	7.05
Evaluation Board for AD8333							AD8333-EVALZ-ND	162.44	—	—
Evaluation Board for AD8339							AD8339-EVALZ-ND	199.94	—	—

★ ***NEW!*** ‡ Cut Tape † Tape and Reel

NEW! WiMAX Power Amp

Frequency (GHz)	Gain (dB)	Supply Voltage	Supply Current	Package	Digi-Key Part No.	Price Each		
						1	25	100
2.3 ~ 2.4	29	3.2 ~ 4.2	100mA	16-LFCSP	ADL5570ACPZ-R7CT-ND‡ ADL5570ACPZ-R7TR-ND†	8.33	7.50 9262.50/1,500	6.65

‡ Cut Tape † Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ANALOG DEVICES

RX TX Subsystems

Res. (Bits)	Thruput Rate	Number of ADC Inputs	Supply Voltage	Interface	Package	Digi-Key Part No.	Price Each 1	25	100
24	375kSPS	1	2.7 ~ 3.6	Ser., SPI	48-LFCSP	AD9864BCPZ-ND	15.11	14.10	13.10

Mixers/Multipliers

RF Frequency (MHz)	IF Frequency (MHz)	LO Frequency (MHz)	Conversion Gain	Package	Digi-Key Part No.	Price Each 1	25	100
400	200	400	—	20-PLCC	AD831APZ-ND◆	11.61	10.46	9.28
500	400KHz ~ 12	500	—	20-SSOP	AD607ARSZ-ND◆	7.30	5.84	4.93
500	240	500	24dB	16-SOIC	AD608ARZ-ND◆	5.33	4.27	3.32
dc ~ 2,500	dc ~ 2,500	dc ~ 2,500	7dB	14-TSSOP	AD8343ARUZ-ND◆	8.72	6.98	5.89
400 ~1,200	70 ~ 400	470 ~ 1,600	4.5dB	16-LFCSP	AD8344ACPZ-REEL7CT-ND‡◆	8.98	7.19	6.07
					AD8344ACPZ-REEL7TR-ND†◆		8418.75/1,500	
4,000	4,000	4,000	6.8dB	8-LFCSP	ADL5350ACPZ-R7CT-ND‡◆ ***NEW!***	5.31	4.25	3.31
					ADL5350ACPZ-R7TR-ND†◆ ***NEW!***		8920.80/3,000	
20 ~ 2,400	230	20 ~ 2,400	3.5dB	24-LFCSP	ADL5390ACPZ-WP-ND◆	15.00	14.00	13.00
					ADL5390ACPZ-REEL7CT-ND‡◆	16.66	15.00	13.30
					ADL5390ACPZ-REEL7TR-ND†◆		18525.00/1,500	
Evaluation Board for AD8342					AD8342-EVAL-ND	148.50	—	—

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel

PLL Synthesizers and VCOs

RF Input Max. (GHz)	Output Freq. Range (MHz)	Normal Phase Noise (dBc/Hz)	Max. RFin (MHz)	RF Pre-scalers	Supply Current (mA)	Package	Digi-Key Part No.	Price Each 1	25	100
Single Integer-N										
200 MHz	—	-214	104	N/A	4.5	20-LFCSP	ADF4001BCPZ-ND◆	4.50	3.60	2.80
						20-LFCSP	ADF4001BCP-ND	4.95	3.96	3.08
						16-TSSOP	ADF4001BRUZ-ND◆	4.50	3.60	2.80
400 MHz	—	-222	300	N/A	5nA	20-LFCSP	ADF4002BCPZ-ND◆	5.20	4.16	3.51
						16-TSSOP	ADF4002BRUZ-ND◆	5.20	4.16	3.51
7.5	—	-219	240	8/16/32/64	13	20-LFCSP	ADF4007BCPZ-ND◆	4.84	3.87	3.01
6.0	—	-219	300	16/17, 32/33, 64/65, 8/9	13	20-LFCSP	ADF4106BCPZ-ND◆	5.00	4.00	3.38
6.0	—	-219	300	16/17 32/33, 64/65, 8/9	13	16-TSSOP	ADF4106BRUZ-ND◆	5.00	4.00	3.38
7.0	—	-219	250	16/17 32/33, 64/65, 8/9	13	16-TSSOP	ADF4107BRUZ-ND◆	6.20	4.96	4.19
8.0	—	-219	250	16/17, 32/33, 4/5 64/65, 8/9	17	20-LFCSP	ADF4108BCPZ-ND◆	7.76	6.21	5.24
550 MHz	—	-215	104	16/17, 32/33, 64/65, 8/9	4.5	16-TSSOP	ADF4110BRUZ-ND◆	5.13	4.11	3.20
1.2	—	-215	104	16/17, 32/33, 64/65, 8/9	4.5	20-LFCSP	ADF4111BCPZ-ND◆	5.13	4.11	3.20
1.2	—	-215	104	16/17, 32/33, 64/65, 8/9	4.5	16-TSSOP	ADF4111BRU-ND	4.56	3.65	3.08
3.0	—	-215	104	16/17, 32/33, 64/65, 8/9	6.5	16-TSSOP	ADF4112BRUZ-ND◆	5.13	4.11	3.20
4.0	—	-215	104	16/17, 32/33, 64/65, 8/9	8.5	20-LFCSP	ADF4113BCP-ND	5.30	4.24	3.58
						20-LFCSP	ADF4113BCPZ-ND◆ ***NEW!***	5.30	4.24	3.58
						16-TSSOP	ADF4113BRUZ-ND◆	5.30	4.24	3.58
						16-TSSOP	ADF4113BRUREEL7CT-ND‡	5.84	4.68	3.95
						16-TSSOP	ADF4113BRUZ-REEL7TR-ND◆†		3312.50/1,000	
4.0	—	-212	104	16/17, 32/33, 64/65, 8/9	11mA	16-TSSOP	ADF4113HVBRUZ-ND◆	6.00	4.80	4.05
						20-LFCSP	ADF4113HVBCPZ-ND◆	6.00	4.80	4.05
550 MHz	—	-211	100	8/9	4.5	16-TSSOP	ADF4116BRUZ-ND◆	5.13	4.11	3.20
3.0	—	-216	100	32/33	6.5	16-TSSOP	ADF4118BRU-ND	5.65	4.52	3.52
							ADF4118BRUZ-ND◆	5.13	4.11	3.20
Dual Integer-N										
3.0	—	-216	110	32/33, 64/65	7	20-TSSOP	ADF4218LBRU-ND	5.60	4.48	3.78
Fractional-N — RoHS Compliant										
4.0	—	-213	250	4/5,8/9	12	20-LFCSP	ADF4153BCPZ-ND	5.30	4.24	3.58
						16-TSSOP	ADF4153BRUZ-ND	5.30	4.24	3.58
						16-TSSOP	ADF4153YRUZ-ND ***NEW!***	8.22	6.58	5.55
4.0	—	-213	250	4/5, 8/9	12	16-TSSOP	ADF4154BRUZ-ND	5.30	4.24	3.58
6.0	—	-213	250	4/5, 8/9	12	20-LFCSP	ADF4156BCPZ-ND	7.06	5.65	4.77
						16-TSSOP	ADF4156BRUZ-ND	7.06	5.65	4.77
6.0	—	-207	300	—	29	16-TSSOP	ADF4157BRUZ-ND ***NEW!***	7.56	6.05	5.11
3.5	—	-216	300	4/5, 8/9	—	32-LFCSP	ADF4193BCPZ-ND	15.00	14.00	13.00
3.0	—	-214	150	4/5, 8/9	12	24-LFCSP	ADF4252BCPZ-ND	6.20	4.96	4.19
Synthesizer/VCO Integer-N — RoHS Compliant										
—	2,400 ~ 2,725	-214	250	16/17, 32/33, 8/9	25-50	24-LFCSP	ADF4360-0BCPZ-ND	7.20	5.76	4.86
—	1,850 ~ 2,150	-217	250	16/17, 32/33, 8/9	25-50	24-LFCSP	ADF4360-2BCPZ-ND	7.20	5.76	4.86
—	1,600 ~ 1,950	-217	250	16/17, 32/33, 8/9	25-50	24-LFCSP	ADF4360-3BCPZ-ND	7.20	5.76	4.86
—	1,450 ~ 1,750	-217	250	16/17, 32/33, 8/9	25-50	24-LFCSP	ADF4360-4BCPZ-ND	7.20	5.76	4.86
—	350 ~ 1,800	-217	250	16/17, 8/9	25-45	24-LFCSP	ADF4360-7BCPZ-ND	7.20	5.76	4.86
—	65 ~ 400	-217	250	—	25-45	24-LFCSP	ADF4360-8BCPZ-ND	7.20	5.76	4.86

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel

Description	Digi-Key Part No.	Price Each
Evaluation Boards		
Evaluation Board for ADF4001	EVAL-ADF4001EB2-ND	129.00
Evaluation Board for ADF4001	EVAL-ADF4001EBZ2-ND◆	129.00
Evaluation Board for ADF4002	EVAL-ADF4002EBZ1-ND◆	129.00
Evaluation Board for ADF4007EB1	EVAL-ADF4007EBZ1-ND◆	129.00
Evaluation Board for ADF4106	EVAL-ADF4106EBZ1-ND◆	161.25
Evaluation Board for ADF4108	EVAL-ADF4108EBZ1-ND◆	161.25
Evaluation Board for ADF411X, No Chip	EVAL-ADF411XEBZ1-ND◆	129.00
Evaluation Board for ADF4112	EVAL-ADF4112EB1-ND	161.25
Evaluation Board for ADF4112	EVAL-ADF4112EBZ1-ND◆	161.25
Evaluation Board for ADF4113, 900MHz	EVAL-ADF4113EBZ1-ND◆	161.25
Evaluation Board for ADF4113, 1,750MHz	EVAL-ADF4113EB2-ND	161.25
Evaluation Board for ADF4113, 1,750MHz	EVAL-ADF4113EBZ2-ND◆	161.25
Evaluation Board for ADF4113HV	EVAL-ADF4113HVEB1Z-ND◆	161.25
Evaluation Board for ADF4118	EVAL-ADF4118EB1-ND	161.25
Evaluation Board for ADF4118	EVAL-ADF4118EBZ1-ND◆	161.25
Evaluation Board for ADF4153	EVAL-ADF4153EBZ1-ND◆	161.25
Evaluation Board for ADF4154	EVAL-ADF4154EBZ1-ND◆	161.25
Evaluation Board for ADF4157	EVAL-ADF4157EB1Z-ND◆ ***NEW!***	161.25
Evaluation Board for ADF4193	EVAL-ADF4193EB1-ND	161.25
Evaluation Board for ADF4193	EVAL-ADF4193EBZ1-ND◆	161.25
Evaluation Board for ADF4193, No VCO or Filters.........	EVAL-ADF4193EB2-ND	129.00
Evaluation Board for ADF4193, No VCO or Filters.........	EVAL-ADF4193EBZ2-ND◆	129.00
Evaluation Board for ADF4252	EVAL-ADF4252EB1-ND	161.25
Evaluation Board for ADF4252	EVAL-ADF4252EBZ1-ND◆	161.25
Evaluation Board for ADF4252, No VCO or Filters.........	EVAL-ADF4252EB2-ND	129.00
Evaluation Board for ADF4252, No VCO or Filters.........	EVAL-ADF4252EBZ2-ND◆	129.00
Evaluation Board for ADF4360-0	EVAL-ADF4360-0EBZ1-ND◆	129.00
Evaluation Board for ADF4360-1	EVAL-ADF4360-1EBZ1-ND◆	129.00
Evaluation Board for ADF4360-2	EVAL-ADF4360-2EB1-ND	129.00
Evaluation Board for ADF4360-2	EVAL-ADF4360-2EBZ1-ND◆	129.00
Evaluation Board for ADF4360-3	EVAL-ADF4360-3EBZ1-ND◆	129.00
Evaluation Board for ADF4360-4	EVAL-ADF4360-4EB1-ND	129.00
Evaluation Board for ADF4360-4	EVAL-ADF4360-4EBZ1-ND◆	129.00
Evaluation Board for ADF4360-5	EVAL-ADF4360-5EBZ1-ND◆	129.00
Evaluation Board for ADF4360-6	EVAL-ADF4360-6EB1-ND	129.00
Evaluation Board for ADF4360-6	EVAL-ADF4360-6EBZ1-ND◆	129.00
Evaluation Board for ADF4360-7	EVAL-ADF4360-7EBZ1-ND◆	129.00
Evaluation Board for ADF4360-8	EVAL-ADF4360-8EBZ1-ND◆	129.00

◆ ***RoHS Compliant***

Input Freq. Max. (MHz)	Supply Voltage	TTL Logic High (Min)	ECL Logic High	Package	Digi-Key Part No.	Price Each 1	25	100
Phase/Frequency Discriminator — RoHS Compliant								
200	+5	2V	300mV	20PLCC	AD9901KPZ-ND	7.70	6.16	5.20

DDCs

MSPS	GSM, EDGE/GPRS	CDMA2000 1x	CDMA2000 3x	UMTS	TDS-CDMA	Package	Digi-Key Part No.	Price Each 1	25	100
65	1 Ch.	1 Ch. – 2 Samples per Chip	1 Ch. with FPGA/ 2 Samples per Chip	1 Ch. with FPGA 2 Samples per Chip	1 Ch.	80-PQFP	AD6620ASZ-ND◆	28.38	26.49	24.60
80	8 Ch. – 2 Samples per Symbol	4 Ch. – 4 Samples per Chip	4 Ch. – 4 Samples per Chip	4 Ch. – 4 Samples per Chip	8 Ch. – 1 Sample per Chip	324-PBGA	AD6635BB-ND	62.43	58.27	54.11
150	6 Ch. – 4/8 Samples per Symbol	6 Ch. – 4 Samples per Chip	6 Ch. – 4 Samples per Chip	6 Ch. – 4 Samples per Chip	6 Ch. – 1/2/4 Samples per Chip	256-CSPBGA	AD6636CBCZ-ND◆	48.96	45.70	42.44

◆ ***RoHS Compliant***

NEW! IF Receivers

MSPS	GSM, EDGE/GPRS	CDMA2000 1x	CDMA2000 3x	UMTS	TDS-CDMA	Package	Digi-Key Part No.	Price Each 1	25	100
150	2X6 Channels	2X12 Channels	2X6 Channels	2X4 Channels	2X12 Channels	64-LFCSP	AD6655BCPZ-80-ND	83.81	78.22	72.64
Evaluation Board							AD6655-125EBZ-ND	215.00	—	—

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ANALOG DEVICES

DDSs

Master fclk	Resolution (Bits)	Tuning Word Width (Bits)	Nominal Supply (V)	I Supply Total (Max.)	FS IOUT Nominal (mA)	Compliance Range (V)	REFCLK Multiplier	On-Board Comparator	I/O Interface	Package	Digi-Key Part No.	Price Each 1	25	100
25MHz	10	32	Single (+3.3), Single (+3.6), Single (+5.0)	15mA	4	1.5	No	No	Parallel	48-LQFP	AD9831ASTZ-ND◆	12.25	11.03	9.78
25MHz	10	32	Single (+3.3), Single (+3.6), Single (+5.0)	15mA	4	1.35	No	No	Serial	16-TSSOP	AD9832BRU-ND AD9832BRUZ-ND◆	10.78 9.80	9.71 8.82	8.61 7.83
50MHz	10	32	Single (+5.0)	60mA	20	1.0	No	No	Parallel	48-TQFP	AD9830AST-ND AD9830ASTZ-ND◆	20.19 19.31	18.85 18.02	17.50 16.74
50MHz	10	28	Single (+2.3 to +5.5), Single (+2.5), Single (+2.7), Single (+3.0), Single (+3.3) Single (3.6), Single (+5.0)	8mA	3	0.8	No	Yes	Serial	20-TSSOP	AD9834BRU-ND AD9834BRUZ-ND◆	10.66 9.70	9.60 8.73	8.52 7.75
75MHz	10	28	Single (+2.3 to +5.5)	8.7mA	3	0.8	No	Yes	Serial	20-TSSOP	AD9834CRUZ-ND◆	11.28	10.16	9.01
50MHz	10	32	Single (+5.0)	40mA	4	1.35	No	No	Serial	16-TSSOP	AD9835BRUZ-ND◆	11.28	10.16	9.01
125MHz	10	32	Single (+3.3), Single (+5.0)	96mA	20	1.5	No	Yes	Parallel, Serial	28-SSOP	AD9850BRSZ-ND◆	21.83	20.37	18.92
180MHz	10	32	Single (+3.0), Single (+3.3) Single (+3.6), Single (+5.0)	130mA	20	1.5	Yes	Yes	Parallel	28-SSOP	AD9851BRSZ-ND◆	23.93	22.33	20.74
250MHz	10	32	Single (+1.8)	63.5mA	4.6	0.8	Yes	No	Parallel, Serial	32-LFCSP	AD9913BCPZ-ND◆ ***NEW!***	17.03	15.89	14.76
300MHz	12	48	Single (+3.3)	922mA	20	1.0	Yes	Yes	Parallel, Serial	80-LQFP	AD9852ASTZ-ND◆	26.93	25.13	23.34
300MHz	12	48	Single (+3.3)	1210mA	10	1.0	Yes	Yes	Parallel, Serial	80-LQFP	AD9854ASTZ-ND◆	29.18	27.23	25.29
400MHz	10	32	Multi (+1.8, +3.3)	N/A	20	2.05	Yes	No	Serial	48-TQFP	AD9859YSVZ-ND◆	17.21	16.06	14.92
400MHz	14	32	1.8 and 3.3 or 1.8	N/A	10	2.05	Yes	No	Serial	48-TQFP	AD9951YSVZ-ND◆	24.26	22.64	21.03
400MHz	14	32	Multi (+1.8, +3.3), Single (+1.8)	N/A	10	2.05	Yes	Yes No Yes	Serial	48-TQFP	AD9952YSVZ-ND◆ AD9953YSVZ-ND◆ AD9954YSVZ-ND◆	27.35 26.03 30.44	25.53 24.29 28.41	23.70 22.56 26.38
500MHz	10	32	Multi (+1.85, +3.3) Multi (+1.8, +3.3)	105mA 180mA	10	2.3	Yes	—	Serial	56-LFCSP	AD9958BCPZ-ND◆ AD9959BCPZ-ND◆	35.70 65.52	33.32 61.16	30.94 56.79
1.0GHz	10	32	Multi (+3.3, +5.0)	N/A	40	3.8	No	No	Parallel, Serial	100-TQFP	AD9858BSVZ-ND◆	79.64	74.33	69.02
1.0GHz	14	32	Single (+1.8); Single (+3.3) Multi (+1.8, +3.3)	N/A 759mA	20 20	0.5 0.5	Yes Yes	No —	Parallel, Serial Serial	100-TQFP 100-TQFP	AD9910BSVZ-ND◆ AD9957BSVZ-ND◆	61.61 37.05	57.50 34.58	53.40 32.11
1.0GHz	14	48	Multi (+1.8, +3.3)	394mA	—	0.5	Yes	Yes	Serial	64-LFCSP	AD9912BCPZ-ND◆	65.73	61.35	56.97
2.7GHz	14	48	Multi (+1.8, +3.3)	N/A	10	2.3	No	No	Serial	48-LFCSP	AD9956YCPZ-ND◆	30.44	28.41	26.38
Evaluation Board for AD9831											EVAL-AD9831EB-ND	146.25	—	—
Evaluation Board for AD9832											EVAL-AD9832EBZ-ND◆	150.00	—	—
Evaluation Board for AD9833											EVAL-AD9833EBZ-ND◆	150.00	—	—
Evaluation Board for AD9834											EVAL-AD9834EBZ-ND◆	150.00	—	—
Evaluation Board for AD9850/FS											AD9850/FSPCB-ND	250.00	—	—
Evaluation Board for AD9910											AD9910/PCBZ-ND◆	376.25	—	—
Evaluation Board for AD9912											AD9912/PCBZ-ND◆	268.75	—	—
Evaluation Board for AD9913											AD9913/PCBZ-ND◆ ***NEW!***	268.75	—	—
Evaluation Board for AD9954											AD9954/PCBZ-ND◆	268.75	—	—
Evaluation Board for AD9957											AD9957/PCBZ-ND◆	376.25	—	—
Evaluation Board for AD9958											AD9958/PCBZ-ND◆	268.75	—	—

◆ ***RoHS Compliant***

antenova®

Antennas and GPS Module

Digi-Reel® RoHS COMPLIANT

Dimensions in mm

Fig. 1

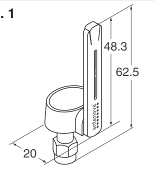

Fig. 2

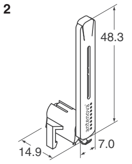

Fig. 3

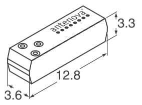

Fig. 4

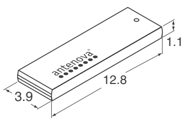

Fig. 5

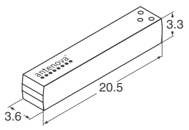

Fig. 6

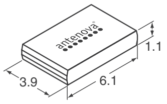

Fig. 7

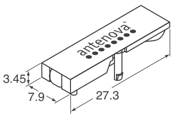

Fig.	Description	Frequency	Gain (Typ. @ 2.4GHz)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel◊ Qty.	Pricing	Antenova Part No.
Antennas										
1	Titanis Swivel SMA Titanis Swivel RPSMA	2.4GHz 2.4GHz	4.1dBi 4.1dBi	627-1000-ND† 627-1001-ND†	43.75 38.00	34.38 31.50	25.01 24.00	— —	— —	2010B4844-01 2010B6090-01
2	Picea Swivel	2.4GHz	4.1dBi	627-1002-ND†	19.00	17.00	13.00	—	—	2010B5771-04
3	Comata SMD	2.4GHz	-0.5dBi	627-1010-1-ND	3.80	3.40	3.00	2,000	1400.00/M	3030A6111-01
4	Rufa SMD	2.4GHz	4.1dBi	627-1011-1-ND 627-1012-1-ND	4.77 3.80	4.27 3.40	3.77 3.00	1,000 1,000	1632.00 1300.00	3030A5839-01 3030A5887-01
5	Mica SMD	2.4GHz	1.2dBi	627-1009-1-ND	5.25	4.50	3.75	2,000	2000.00/M	3030A5645-01
6	Impexa SMD	2.4GHz	0.2dBi	627-1013-1-ND 627-1014-1-ND	2.28 2.28	2.04 2.04	1.80 1.80	1,000 1,000	600.00 600.00	3030A6150-01 3030A6250-01
7	Flavus Snap-In Flavus Snap-In	2.4GHz 2.4 / 5.0GHz	4.0dBi 4.0dBi	627-1003-ND† 627-1005-ND†	6.20 8.00	5.60 6.75	5.00 5.50	— —	— —	1020B5743-01 1020B5786-01
8	GPS SMD	1,575 ±5MHz	-0.5dBiΔ	627-1015-1-ND	8.06	7.70	6.81	1,000	2270.00	A10137
9	Fusca SMD	2.4 ~ 2.5GHz	0.4dBi	627-1016-1-ND	3.49	3.12	2.74	1,000	1252.00	A10192-L
GPS Antenna Module and Evaluation Kit										
10	GPS Module with SiRFstarIII™			627-1019-ND†	51.50	42.75	39.90	—	—	M10214
—	Evaluation Kit for SiRFstarIII Module			627-1020-ND†	330.00	—	—	—	—	M10214-K1

◊ For Tape and Reel part number, change 1-ND to 2-ND.   † Bulk   Δ RHCP @ 1575MHz

Fig. 8

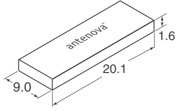

Fig. 9

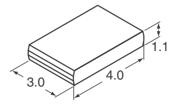

Fig. 10

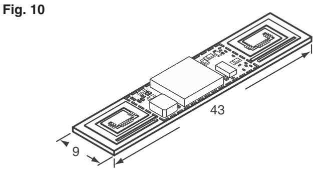

artaflex

WirelessUSB™ Modules

RoHS COMPLIANT

Operating in the 2.4GHz ISM band, the Falcon series modules are based on Cypress's WirelessUSB LP technology. The modules offer low-power consumption and deliver data rates up to 1Mb/s, with ranges between 50 meters for print antenna devices up to 1 kilometer for devices equipped with a power amplifier. Additionally, WirelessUSB LP features direct sequence spread-spectrum (DSSS) technology, which provides the industry's most robust immunity for interference from other technologies like 802.11b/g, Bluetooth, cordless phones and microwave ovens. The modules feature a data transmission rate of up to 1Mbps with an average latency of below 2 milliseconds. The modules are certified with modular grants by the Federal Communications Commission (FCC), the European Telecommunications Standards Institute (ETSI), and industry Canada, translating into modular approval and eliminating the need to test for RF compliance. • **AWP24S:** WirelessUSB module with print antenna • **AWS24S:** WirelessUSB module with miniature SMA for use with external antenna • **AWA24S:** WirelessUSB and PA module with print antenna • **AWP24U:** WirelessUSB dongle

Features	Data Rates DSSS (kbps)	GFSK (Mbps)	Range	Operating Current (mA)	Operating Voltage (V)	Dimensions (mm)	Digi-Key Part No.	Price Each 1	10	100	Artaflex Part No.
Integrated Print Antenna	250	1	50 Meters	21	2.4 ~ 3.6	38.1 x 25.4	748-1000-ND	12.99	9.99	7.99	AWP24S
External Antenna Connector	250	1	50 Meters	21	2.4 ~ 3.6	38.1 x 25.4	748-1001-ND	16.99	13.99	10.99	AWS24S
Integrated Power Amplifier	250	1	up to 1 Kilometer	<100	2.4 ~ 3.6	25.4 x 20.3	748-1003-ND	31.99	24.99	19.99	AWA24S
WirelessUSB Dongle											
Full Speed USB (12Mbps)	250	1	30 Meters	40	5	59 x 20	748-1002-ND	31.99	24.99	19.99	AWP24U

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

RFID Demo Kit

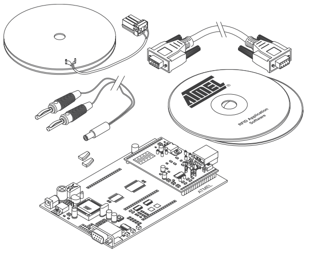

The RFID application kit is designed to present the key features of various RFID products from Atmel Wireless and Microcontrollers.
The included software version IDS 5 supports the following products: • U2270B on the reader side • TK5530/e5530 on the transponder side • 5551/T5557 on the transponder side • TK5552 on the transponder side • TK5561/e5561 on the transponder side • U9280M on the transponder side
Kit Includes: • Base Station Coil • Serial Cable • Demo Board • Sample Transponders

Description	EPROM (Bytes)	Digi-Key Part No.	Price Each 1	25	100
125kHz	224	TK5551M-PP-NDΔ	3.87	3.24	2.70
	3,128	TK5530HM-232-PP-ND†	2.60	2.06	1.98
RFID Application Kit		ATA2270-EK1-ND◆	397.67	—	—

Δ Read/Write † Read only ◆ ***RoHS Compliant***

Smart RF Devices

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing
UHF ASK/FSK Receiver IC, 4.5 ~ 5.5V, 300 ~ 450MHz	20-SOIC	ATA3741P2-TGQYCT-ND†◆	8.11	6.79	6.04	2,000	4900.00/M
UHF ASK/FSK Receiver IC, 4.5 ~ 5.5V, 300 ~ 450MHz	20-SOIC	ATA3741P2-TGSY-ND◆	8.11	5.27	4.90	—	—
UHF ASK/FSK Receiver IC, 4.5 ~ 5.5V, 300 ~ 450MHz	20-SOIC	ATA3741P3-TGQYCT-ND†◆	8.11	6.79	6.04	2,000	4900.00/M
UHF ASK/FSK Receiver IC, 4.5 ~ 5.5V, 300 ~ 450MHz	20-SOIC	ATA3742P3-TGQYCT-ND†◆	8.73	7.31	6.50	2,000	5270.00/M
UHF ASK/FSK Receiver IC, 4.5 ~ 5.5V, 310 ~ 440MHz	20-SOIC	ATA3745P3-TGQYCT-ND†◆	6.34	5.31	4.72	2,000	3840.00/M
UHF ASK/FSK Receiver IC, 4.5 ~ 5.5V, 310 ~ 440MHz	20-SOIC	ATA3745P3-TGSY-ND◆	6.34	4.14	3.84	—	—
UHF ASK/FSK Wideband Transceiver IC, 2.4 ~ 3.6V / 4.4 ~ 6.6V, 315MHz	48-QFN	ATA5423-PLQWCT-ND†	6.86	5.75	5.11	4,000	4140.00/M
UHF ASK/FSK Wideband Transceiver IC, 2.4 ~ 3.6V / 4.4 ~ 6.6V, 345MHz	48-QFN	ATA5425-PLQWCT-ND†◆	6.86	5.75	5.11	4,000	4140.00/M
UHF ASK/FSK Wideband Transceiver IC, 2.4 ~ 3.6V / 4.4 ~ 6.6V, 434MHz / 868MHz	48-QFN	ATA5428-PLQWCT-ND†◆	6.86	5.75	5.11	4,000	4140.00/M
UHF ASK/FSK Wideband Transceiver IC, 2.4 ~ 3.6V / 4.4 ~ 6.6V, 915MHz	48-QFN	ATA5429-PLQWCT-ND†◆	6.86	5.75	5.11	4,000	4140.00/M
UHF ASK/FSK Wideband Transceiver IC, 2.4 ~ 3.6V / 4.4 ~ 6.6V, 434MHz / 868MHz	48-QFN	ATA5811-PLHCCT-ND†	8.79	7.37	6.14	4,000	5931.00/M
UHF ASK/FSK Wideband Transceiver IC, 2.4 ~ 3.6V / 4.4 ~ 6.6V, 315MHz	48-QFN	ATA5812-PLQCT-ND†	8.79	7.37	6.14	4,000	5931.00/M
Low-IF ISM Single-Chip Transceiver IC, 2.9 ~ 3.6V, 2.4GHz	32-QFN	ATR2406-PNQG 86CT-ND†◆	3.83	2.85	2.50	4,000	2225.00/M
WDECT/ISM Single-Chip Transceiver IC, 3 ~ 4.6V, 2.4GHz	48-QFN	T2803-PLHCT-ND†	16.13	13.50	11.25	—	—
Wireless Data Micro Transmitter, 315MHz	20-TSSOP	AT86RF401U-6GS-ND	3.14	2.63	2.19	—	—
SiGe IF Receiver/Demodulator, 65 ~ 300MHz	16-TSSOP	T0797-6CPCT-ND†	10.32	8.64	7.20	1,000	6960.00
SiGe IF Receiver/Demodulator, 65 ~ 300MHz	16-TSSOP	ATR0797-6CPCT-ND†◆	9.25	7.74	6.45	1,000	6235.00
SiGi Universal Usable RF Power Amplifier, 3.5V, 135 ~ 900MHz	28-PSSOP	T0905-TSPHCT-ND†	9.68	8.10	6.75	1,000	6525.00
High Linearity SiGe Active Receiver Mixer, 5V, 800 ~ 1000MHz	16-TSSOP	T0780-6CPCT-ND†	12.31	10.31	8.59	1,000	8301.00
Transceiver Base Station Board for ATA5423, 315MHz	—	ATAB5423-3-WB-ND◆	198.17	—	—	—	—
Transceiver Base Station Board for ATA5425, 345MHz		ATAB5425-3-WB-ND◆	198.17	—	—	—	—
Transceiver Base Station Board for ATA5428, 434MHz		ATAB5428-4-WB-ND◆	198.17	—	—	—	—
Transceiver Base Station Board for ATA5428, 868MHz		ATAB5428-8-WB-ND◆	198.17	—	—	—	—
Transceiver Base Station Board for ATA5429, 915MHz		ATAB5429-9-WB-ND◆	198.17	—	—	—	—
Reference Design for T5753, 315MHz	—	ATAB5753-ND	298.85	—	—	—	—
Reference Design for T5754, 434MHz		ATAB5754-ND	298.85	—	—	—	—
Reference Design for T5750, 868MHz		ATAB5750-8-ND	298.85	—	—	—	—
Reference Design for T5750, 915MHz		ATAB5750-9-ND	298.85	—	—	—	—
PC-Controlled Application Board for U6815M or T6816 with Dual Hex DMOS Output Driver	—	ATAB6816-ND◆	184.87	—	—	—	—
PC-Controlled Application Board for T6817 with Dual Triple DMOS Output Driver		ATAB6817-ND◆	184.87	—	—	—	—
PC-Controlled Application Board for T6818 with Triple Half-Bridge DMOS Driver		ATAB6818-ND◆	184.87	—	—	—	—
PC-Controlled Application Board for T6819 with Triple Half-Bridge DMOS Driver with PWM Function		ATAB6819-ND◆	184.87	—	—	—	—
RF-Module Development Board for ATR2406	—	ATR2406-DEV-BOARD-ND	419.25	—	—	—	—
Long Range RF-Module Development Board for ATR2406 / ATmega88		ATR2406-DEV-BOARD2-ND	419.25	—	—	—	—
Starter Kit for STK500, 315MHz	—	ATAKSTK511-3-ND	649.30	—	—	—	—
Starter Kit for STK500, 868MHz		ATAKSTK511-8-ND	642.85	—	—	—	—
Starter Kit for STK500, 915MHz		ATAKSTK511-9-ND	642.85	—	—	—	—
RAC Unidirectional Kit, 315MHz	—	ATAKSTK512-3-ND◆	330.00	—	—	—	—
RAC Unidirectional Kit, 434MHz		ATAKSTK512-4-ND◆	330.00	—	—	—	—
Evaluation Kit with ATR2406 and ATmega88 Boards	—	ATR2406-DEV-KIT2-ND	1075.00	—	—	—	—
RF Design Kit, 868MHz	—	ATAK5750-60-N-ND	849.25	—	—	—	—
RF Design Kit, 915MHz		ATAK5750-61-N-ND	849.25	—	—	—	—
RF Design Kit T5754, 434MHz, 600kHz Bandwidth, with SAW Filter		ATAK5754-43P6-S-ND	849.25	—	—	—	—
Development Kit for ATA5744U (USA)	—	ATAK4015744U-ND	752.50	—	—	—	—
Development Kit for AT86RF401U		AT86RF401U-EK1-ND	320.35	—	—	—	—

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape ◆ ***RoHS Compliant***

AVR® Z-Link™ ZigBee™

AVR Z-Link provides an industry-leading 2.4GHz transceiver bundled with an 8-Bit RISC microcontroller (ATMEGA). The AT86RF230 radio gives you the highest link budget of any 802.15.4 radio on the market today. The ATMEGA series of AVR MCUs enables you to choose from 32KB to 256KB to fit the needs of your design.

RoHS COMPLIANT

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Atmel Part No.
MCU ATMEGA644 / AT86RF230	44-TQFP	ATMEGA64RZAV-10AU-ND	11.48	8.49	7.58	ATMEGA64RZAV-10AU
	44-QFN	ATMEGA64RZAV-10MU-ND	11.48	8.49	7.58	ATMEGA64RZAV-10MU
	40-DIP	ATMEGA64RZAV-10PU-ND	11.48	8.49	7.58	ATMEGA64RZAV-10PU
MCU ATMEGA1281 / AT86RF230	64-TQFP	ATMEGA128RZAV-8AU-ND	15.87	11.73	10.48	ATMEGA128RZAV-8AU
	64-QFN	ATMEGA128RZAV-8MU-ND	15.87	11.73	10.48	ATMEGA128RZAV-8MU
MCU ATMEGA1280 / AT86RF230	100-TQFP	ATMEGA128RZBV-8AU-ND	16.86	12.47	11.13	ATMEGA128RZBV-8AU
MCU ATMEGA2561 / AT86RF230	64-TQFP	ATMEGA256RZAV-8AU-ND	19.67	14.55	12.99	ATMEGA256RZAV-8AU
	64-QFN	ATMEGA256RZAV-8MU-ND	19.67	14.55	12.99	ATMEGA256RZAV-8MU
MCU ATMEGA2560 / AT86RF230	100-TQFP	ATMEGA256RZBV-8AU-ND	21.03	15.55	13.89	ATMEGA256RZBV-8AU
Low-Power 2.4 GHz Transceiver	32-QFN	AT86RF230-ZU-ND	6.28	4.97	4.53	AT86RF230-ZU

ATAVRRZ502 RF Accessory Kit

The RZ502 RF Accessory Kit enables point to point links development, debugging and demonstration. More advanced network topologies can be developed by adding additional RF accessory kits. The kit is top modules for the STK®500 AVR starter kit and requires a STK500 and STK501 for development purposes.

ATAVRRZ502-ND.. **$99.00**

ATAVRRZ201 Controller Boards and Software Kit

The kit contains five 2.4GHz 802.15.4 compliant and ZigBee compatible Radio-Controller Boards equipped with ATmega1281V microcontroller and AT86RF230 transceiver. By offering additional RCB's, the RZ201 kit complements the RZ200 kit, enabling demonstration of larger wireless networks based on 802.15.4/ZigBee™.

ATAVRRZ201-ND.. **$229.00**

ATAVRRZ200 Demonstration Kit

The RZ200 Demonstration Kit enables development, debugging and demonstration on 802.15.4/ ZigBee™ networks. The kit contains five 802.15.4 compatible 2.4GHz Radio-Controller Board (RCB) with AT86RF230 radio and ATmega1281V microcontroller.

ATAVRRZ200-ND.. **$499.00**

ATAVRRZ541 Packet Sniffer Kit

The RZ541 Packet Sniffer Kit is the ideal platform for analyzing 802.15.4/ZigBee™ wireless networks. Included is the basic edition of the Sensor Network Analyzer software from Daintree Networks which enables visualization, measurement and analysis of large networks.

ATAVRRZ541-ND.. **$238.07**

NEW! ATAVRRZRAVEN 2.4GHz Evaluation Kit

The RZ RAVEN 2.4GHz Evaluation and Starter Kit enables development, debugging and demonstration of a wide range of low power wireless applications including IEEE 802.15.4™, 6LoWPAN and ZigBee™ networks. The RZ RAVEN kit comprises two AVR Raven boards (AVRRAVEN) with 2.4GHz transceiver, on board picoPower™ AVR application processors and LCD display, and one USB stick (AVRRZUSBSTICK) with a 2.4GHz transceiver for USB connection to your PC.

ATAVRRZRAVEN-ND.. **$118.80**

Bluetooth® Devices

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing
Bluetooth/ISM Front End IC, 3V, 2.4GHz	20-QFN	T7024-PGPM 80-ND		1589.87/1,500		—	—
Bluetooth/ISM Front End IC, 3V, 2.4GHz	20-QFN	T7024-PGQM80CT-ND†	1.78	1.33	1.17	6,000	1120.50/M
Bluetooth/ISM Front End IC, 3V, 2.4GHz	20-SSOP	T7024-TRQYCT-ND†	1.78	1.33	1.17	4,000	1120.50/M
Demo Board for T7024PGM	—	DEMOBOARD-T7024PGM-ND	332.50	—	—	—	—

‡ For Tape and Reel part number, change CT-ND to TR-ND † Cut Tape

Cellular/Infrastructure ICs Devices

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing
Direct Quadrature Modulator, 5V, 800MHz ~ 2500MHz	16-TSSOP	T0790-6CPCT-ND†	22.01	18.43	15.36	1,000	14841.00
Quadrature Modulator, 5V, 1000MHz	16-SOIC	U2790B-MFP-ND	7.53	6.30	5.25	—	—

‡ For Tape and Reel part number, change CT-ND to TR-ND † Cut Tape

Corded Phone ICs Devices

Description	Digi-Key Part No.	Price Each
Demo Board for U4089B	DEMOBOARD-U4089B-ND	332.50
Demo Board for U4090B.1	DEMOBOARD-U4090B.1-ND	332.50
Demo Board for U4091BM	DEMOBOARD-U4091BM-ND	332.50

Cordless Phone ICs Devices

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing
ISM Front End IC, DECT, 2.4GHz	20-QFN	T7026-PGPCT-ND†	5.38	4.50	3.75	1,500	3625.00/M
Demo Board for ATR2806	—	DEMOBOARD-ATR2806-ND	332.50	—	—	—	—

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

Automotive Control Devices

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing
125kHz Transmitter for TPM, 8.0V ~ 24.0V	20-QFN	ATA5275-PGPICT-ND†◆	5.22	4.18	3.25	1,500	2958.00/M
Ultra Low Power 125kHz 3D Wake Up Receiver with RSSI	8-TSSOP	ATA5282-6APHCT-ND†◆	4.11	3.44	3.06	500	1245.00
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5743P3-TGQCT-ND†	5.81	4.86	4.05	—	—
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5743P3-TGS-ND	5.81	4.86	4.05	—	—
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5743P6-TGQCT-ND†	5.81	4.86	4.05	—	—
UHF ASK/FSK Receiver, 5V ~ 20V, 300MHz ~ 450MHz for ASK or FSK	20-SOIC	T5743P6-TGS-ND	5.81	4.86	4.05	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5744N-TGQCT-ND†	4.73	3.96	3.30	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SSOP	T5744N-TK-ND	4.52	3.78	3.15	—	—
UHF ASK/FSK Receiver, 868MHz ~ 870MHz, 902MHz ~ 928MHz	20-SOIC	T5760-TGQCT-ND†	5.55	4.65	3.87	2,000	3741.00/M
UHF ASK/FSK Receiver, 868MHz ~ 870MHz, 902MHz ~ 928MHz	20-SOIC	T5760-TGS-ND	5.55	4.65	3.87	—	—
UHF ASK/FSK Receiver, 868MHz ~ 870MHz, 902MHz ~ 928MHz	20-SOIC	T5761-TGQCT-ND†	5.55	4.65	3.87	2,000	3741.00/M
UHF ASK/FSK Receiver, 5V ~ 20V, 902MHz ~ 928MHz	20-SOIC	T5761-TGS-ND	5.55	4.65	3.87	—	—
UHF ASK Receiver IC, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	U3741BM-P2FL-ND	5.81	4.86	4.05	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 315MHz ~ 433.92MHz	20-SOIC	U3741BM-P3FLG3CT-ND†	5.81	4.86	4.05	2,000	3915.00/M
UHF ASK Receiver IC, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	U3741BM-P3FL-ND	6.75	4.68	3.46	—	—
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	U3742BM-P3FL-ND	6.08	5.10	4.25	—	—
Stand-Alone Antenna Driver	28-QFN	ATA5278-PKQICT-ND†◆	7.48	6.27	5.57	4,000	4520.00/M
Interface for 125kHz Wake-Up Function	8-TSSOP	ATA5283P-6APJCT-ND†◆	1.91	1.53	1.19	500	552.50
Reference Design for T5744, 315MHz	—	ATAB5744-N3-ND	298.85	—	—	—	—
Receiving Board for T5744, 433.92MHz, No SAW Filter	—	ATAB5744-N4-ND	298.85	—	—	—	—
Reference Design for T5744, 315MHz	—	ATAB5744-S3-ND	298.85	—	—	—	—
Reference Design for T5744, 433MHz	—	ATAB5744-S4-ND	298.85	—	—	—	—

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND † Cut Tape

RF and Microwave Products

Amplifiers

Package	Typical Bias (V/mA)	Frequency Range (GHz)	Gain @ 2GHz (dB)	P_{1dB} @ 2GHz (dBm)	NF @ 2GHz (dB)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Avago Part No.
SOT-363	3/14	DC – 3.5	21.5	2.2	3.8	516-1490-1-ND◆	.72	6.00	48.00	516-1490-2-ND◆	360.00/M	ABA-31563-TR1G
	3/37	DC – 2.5	19.0	8.4	3.5	516-1491-1-ND◆	.78	6.50	52.00	516-1491-2-ND◆	390.00/M	ABA-32563-TR1G
	5/18	DC – 3.5	21.5	1.8	3.7	516-1558-1-ND◆	.69	5.75	46.00	516-1558-2-ND◆	345.00/M	ABA-51563-TR1G
	5/35	DC – 3.5	21.5	9.8	3.3	516-1559-1-ND◆	.75	6.25	50.00	516-1559-2-ND◆	375.00/M	ABA-52563-TR1G
	5/46	DC – 3.5	21.5	12.7	3.5	516-1560-1-ND◆	.93	7.75	62.00	516-1560-2-ND◆	465.00/M	ABA-53563-TR1G
	5/79	DC – 3.4	23.0	16.1	4.4	516-1495-1-ND◆	.99	8.25	66.00	516-1495-2-ND◆	495.00/M	ABA-54563-TR1G

Package	Frequency Range (GHz)	Test Frequency (GHz)	V_{dd} (V)	I_{dd} (mA)	NF (dB)	Gain (dB)	P_{1dB} (dBm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Avago Part No.
SOT-343	DC – 2.5	0.9	3.4	15.0	3.7	15.1	1.9	516-1496-1-ND	.60	5.00	40.00	—	—	ADA-4543-TR1
	DC – 2.5	0.9	3.4	15.0	3.7	15.1	1.9	516-1561-1-ND◆	.60	5.00	40.00	516-1561-2-ND◆	300.00/M	ADA-4543-TR1G
	DC – 2.5	0.9	3.5	35.0	4.0	17.0	13.4	516-1562-1-ND◆	.66	5.50	44.00	516-1562-2-ND◆	330.00/M	ADA-4643-TR1G
	DC – 2.5	0.9	3.8	60.0	4.2	16.5	17.1	516-1563-1-ND◆	.72	6.00	48.00	516-1563-2-ND◆	360.00/M	ADA-4743-TR1G
SOT-363	0.1 – 6	2.0	3.0	42.0	2.8	12.4	14.8	516-1586-1-ND◆	2.22	18.50	148.00	516-1586-2-ND◆	1110.00/M	MGA-81563-TR1G
	0.1 – 6	2.0	3.0	84.0	2.2	13.2	17.3	516-1587-1-ND◆	2.61	21.75	174.00	516-1587-2-ND◆	1305.00/M	MGA-82563-TR1G
	0.5 – 4	2.0	3.0	4.5	1.8	14.0	-2.0	516-1512-1-ND	2.52	21.00	168.00	—	—	MGA-87563-TR1
	0.5 – 4	2.0	3.0	4.5	1.8	14.0	-2.0	516-1588-1-ND◆	2.52	21.00	168.00	516-1588-2-ND◆	1260.00/M	MGA-87563-TR1G

Package	Freq. Range (GHz)	NF @ Freq. (dB)	Gain @ Freq. (dB)	P_{1dB} @ Freq. (dBm)	IP_3 @ Freq. (dBm)	V_{cc} (V) Min.	Device Volt. (V)	Device I (mA) Max.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel‡ Qty.	Pricing	Avago Part No.
05-SMD	0.05 – 1.3	3.6/0.5GHz	12.0/0.5GHz	17.5/0.5GHz	30.0/0.5GHz	8	5.5	80	516-1593-1-ND◆	3.75	31.25	250.00	500	937.50	MSA-1105-TR1G
86-SMD	DC – 0.8	3.0/0.5GHz	18.5/0.5GHz	2.0/0.5GHz	14.5/0.5GHz	5	3.5	50	516-1515-1-ND	2.55	21.25	170.00	—	—	MSA-0686-TR1
	DC – 0.8	3.0/0.5GHz	18.5/0.5GHz	2.0/0.5GHz	14.5/0.5GHz	5	3.5	50	516-1591-1-ND◆	2.55	21.25	170.00	1,000	1275.00	MSA-0686-TR1G
	DC – 4	3.3/1GHz	22.5/1GHz	12.5/1GHz	27.0/1GHz	10	7.8	65	516-1592-1-ND◆	1.95	16.25	130.00	1,000	975.00	MSA-0886-TR1G
SOT-143	DC – 2.3	6.0/1GHz	11.0/1GHz	9.0/1GHz	22.0/1GHz	7	4.7	60	516-1513-1-ND	2.55	21.25	170.00	—	—	MSA-0311-TR1
	DC – 2.3	6.0/1GHz	11.0/1GHz	9.0/1GHz	22.0/1GHz	7	4.7	60	516-1589-1-ND◆	2.55	21.25	170.00	3,000	1275.00/M	MSA-0311-TR1G
	DC – 0.7	3.0/0.5GHz	18.0/0.5GHz	2.0/0.5GHz	14.0/0.5GHz	5	3.3	40	516-1514-1-ND	1.80	15.00	120.00	—	—	MSA-0611-TR1
	DC – 0.7	3.0/0.5GHz	18.0/0.5GHz	2.0/0.5GHz	14.0/0.5GHz	5	3.3	40	516-1590-1-ND◆	1.80	15.00	120.00	3,000	900.00/M	MSA-0611-TR1G
	DC – 0.5	3.3/0.9GHz	17.5/0.9GHz	10.0/0.9GHz	20.0/0.9GHz	5	3.6	40	516-1518-1-ND	3.15	26.25	210.00	—	—	MSA-2111-TR1
	DC – 0.5	3.3/0.9GHz	17.5/0.9GHz	10.0/0.9GHz	20.0/0.9GHz	5	3.6	40	516-1594-1-ND◆	3.15	26.25	210.00	3,000	1575.00/M	MSA-2111-TR1G
	DC – 0.5	3.5/1GHz	18.4/1GHz	9.0/1GHz	23.0/1GHz	7	4.5	50	516-1519-1-ND	3.15	26.25	210.00	3,000	1575.00/M	MSA-3111-TR1
	DC – 0.5	3.5/1GHz	18.4/1GHz	9.0/1GHz	23.0/1GHz	7	4.5	50	516-1595-1-ND◆	3.15	26.25	210.00	3,000	1575.00/M	MSA-3111-TR1G

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change 1-ND to 2-ND

(Continued)

AVAGO TECHNOLOGIES RF and Microwave Products *(Cont.)*

NPN Silicon Bipolar Transistors

Package	Frequency (GHz)	V_{ce} (V)	NF_O (dB)	G_a (dB)	P_{1dB} (dBm)	G_{1dB} (dBm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Avago Part No.
SOT-23	0.9	2.7	1.0	12.5	13.0	15.0	516-1566-1-ND◆	.36	3.00	24.00	516-1566-2-ND◆	180.00/M	AT-32033-TR1G
	0.9	5.0	1.0	14.5	14.5	14.5	516-1505-1-ND	.39	3.25	26.00	—	—	AT-41533-TR1
	0.9	5.0	1.0	14.5	14.5	14.5	516-1570-1-ND◆	.39	3.25	26.00	516-1570-2-ND◆	195.00/M	AT-41533-TR1G
SOT-143	0.9	2.7	1.0	14.0	13.0	16.5	516-1499-1-ND	.39	3.25	26.00	—	—	AT-32011-TR1
	0.9	2.7	1.0	14.0	13.0	16.5	516-1564-1-ND◆	.39	3.25	26.00	516-1564-2-ND◆	195.00/M	AT-32011-TR1G
	0.9	5.0	1.0	15.5	14.5	17.5	516-1503-1-ND	.39	3.25	26.00	—	—	AT-41511-TR1
	0.9	5.0	1.0	15.5	14.5	17.5	516-1568-1-ND◆	.39	3.25	26.00	516-1568-2-ND◆	195.00/M	AT-41511-TR1G
SOT-323	0.9	2.7	1.0	15.0	13.0	15.5	516-1500-1-ND	.39	3.25	26.00	—	—	AT-32032-TR1
	0.9	2.7	1.0	15.0	13.0	15.5	516-1565-1-ND◆	.39	3.25	26.00	516-1565-2-ND◆	195.00/M	AT-32032-TR1G
	0.9	5.0	1.0	15.5	14.5	14.5	516-1504-1-ND	.45	3.75	30.00	—	—	AT-41532-TR1
	0.9	5.0	1.0	15.5	14.5	14.5	516-1569-1-ND◆	.45	3.75	30.00	516-1569-2-ND◆	225.00/M	AT-41532-TR1G
SOT-363	0.9	2.7	1.1	14.5	12.0	16.0	516-1502-1-ND	.51	4.25	34.00	—	—	AT-32063-TR1
	0.9	2.7	1.1	14.5	12.0	16.0	516-1567-1-ND◆	.51	4.25	34.00	516-1567-2-ND◆	255.00/M	AT-32063-TR1G

◆ ***RoHS Compliant***

HEMTs

Package	Gate Width (µm)	Frequency Range (GHz)	Test Frequency (GHz)	Vdd (V)	I_{dd} (mA)	NF_O (dB)	G_a (dB)	OIP3 (dBm)	P_{1dB} (dBm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel‡ Pricing 3,000	Avago Part No.
SOT-343	800	0.45 – 6	1.9	4.0	60	0.5	17.5	31.5	20.0	516-1571-1-ND◆	3.51	29.25	234.00	1755.00/M	ATF-34143-TR1G
	800	0.45 – 6	2.0	3.0	60	0.5	16.6	36.2	20.4	516-1572-1-ND◆	4.23	35.25	282.00	2115.00/M	ATF-54143-TR1G
	400	0.45 – 6	2.0	2.7	10	0.6	17.7	24.2	14.4	516-1573-1-ND◆	1.50	12.50	100.00	750.00/M	ATF-55143-TR1G
MiniPak	400	0.45 – 10	2.0	2.7	10	0.5	17.5	24.1	14.6	516-1509-1-ND	1.50	12.50	100.00	750.00/M	ATF-551M4-TR1

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change 1-ND to 2-ND

BOURNS CHF2525CNT Series

9GHz 40 Watt Termination Chips

Features: • DC to 9GHz • Low VSWR • Aluminum Nitride ceramic • Terminal for lead attachment
Specifications: • Substrate: ALN • Resistive Film: Thick Film • Tolerance: ±5%
Absolute Ratings: • Power: 40W • Frequency: 9GHz • VSWR: 1.2 Maximum
Applications: • Isolators • RF amplifiers

Resistance Ω	Terminals	Digi-Key Part No.	Price Each 1	10	50	Bourns Part No.
50	NiAu	CHF2525CNT500LX-ND	6.88	6.25	5.38	CHF2525CNT500LX
50	NiSn	CHF2525CNT500LW-ND	6.88	6.25	5.38	CHF2525CNT500LW

Dimensions in mm

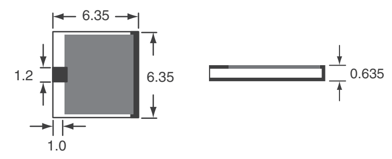

CHF3020CBF Series

10 Watt Power RF Terminations/Resistors

Features: • DC to 4GHz • Flanged model • Low VSWR
Specifications: • Substrate: Beo • Resistive Film: Thick Film • Tab: Ag • Cover Substrate: AL203 • Mounting Flange: Copper plated with Nickel • Tolerance: ±5%
Absolute Ratings: • Power: 10W • Frequency: 4.0GHz • VSWR: 1.35 Maximum • Capacitance: 0.8pf
Applications: • High power RF transmission

Resistance Ω	Function	Digi-Key Part No.	Price Each 1	10	50	Bourns Part No.
50	Termination	CHF3020CBF500L-ND	17.33	15.75	13.55	CHF3020CBF500L
100	Resistor	CHF3020CBF101R-ND	17.33	15.75	13.55	CHF3020CBF101R

Dimensions in mm

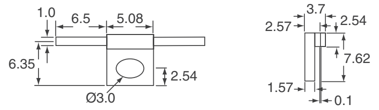

CHF9838CNF Series

250 Watt Power RF Flanged Chip Termination

Features: • DC to 2.2GHz • Flanged model • Low VSWR • Aluminum Nitride ceramic
Specifications: • Substrate: ALN • Resistive Film: Thick Film • Tab: Ag • Tab Attachment: Brazed with epoxy encapsulation • Mounting Flange: Copper plated with Nickel • Tolerance: ±5%
Absolute Ratings: • Power: 250W • Frequency: 2.2GHz • VSWR: 1.10 Maximum
Applications: • High power RF transmission

Resistance Ω	Function	Digi-Key Part No.	Price Each 1	10	50	Bourns Part No.
50	Termination	CHF9838CNF500L-ND	27.50	25.00	21.50	CHF9838CNF500L

Dimensions in mm

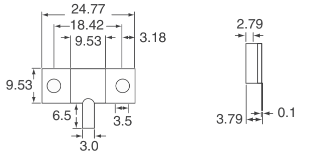

C-MAX® Antennas

RF Technology Specialist

Application	Number of Turns	Inductance	Unloaded Q (Min.)	Digi-Key Part No.	Price Each 1	10	100	C-Max Part No.
Watch	228	985H	55	561-1002-ND	2.52	2.37	1.58	CMA-60-19
Watch	203	985H	50	561-1003-ND	2.55	2.36	1.57	CMA-60-24
Table Clock	147	1.5mH	120	561-1004-ND	1.86	1.76	1.35	CMA-60-60
Wall Clock	139	1.5mH	110	561-1001-ND	2.04	1.87	1.40	CMA-60-100
Watch	188	2.33mH	100	561-1019-ND ***NEW!***	1.98	1.85	1.32	CMA-MF-60

Test Equipment

Description	Digi-Key Part No.	Price Each	C-Max Part No.
Time Signal Generator for UTC	561-1018-ND ***NEW!***	550.00	TSG100
Loop Antenna for TSG400/800, 5-10 Meters	561-1000-ND	395.00	1LA
Level Interface for TSG800/400 to custom application. Provides Time signal connection	561-1009-ND	179.00	DAT100
Time Signal Generator for UTC Application Development	561-1011-ND	8199.98	TSG800
GPS Receiver device for use with TSG equipment for UTC reception anywhere	561-1010-ND	400.00	GPS100

C-MAX®
RF Technology Specialist

Universal Time Code (UTC) Receivers and Demo Boards

C-MAX Solutions provide a universal time code receiver with very low power operation for Radio Controlled Time applications. The **CME8000** provides a simple solution for worldwide operation with integrated Crystal and antenna switching for up to 3 frequencies. Operation at less than 100uA and down at 1.2 to 5 volts. The **CME6005** is the first generation receiver providing dual-band operation at very low power (sub 100uA, 1.2 to 5 Volts)

Description	Digi-Key Part No.	Price Each	C-Max Part No.
UTC Receiver IC, 28-SSOP	561-1007-5-ND 561-1008-1-ND◊ 561-1008-2-ND§	4.35 4.50 1950.00/1,000	CME8000-TLSH CME8000-TLPH CME8000-TLPH
UTC Receiver Module, Multi-Frequency, No CPU	561-1015-ND ***NEW!***	16.10	CMMR-8P-MF
UTC Receiver Module, Multi-Frequency, with CPU	561-1016-ND ***NEW!***	71.10	CMMC-8P-MF

Description	Digi-Key Part No.	Price Each	C-Max Part No.
Evaluation Kit for CME8000, include Signal Generator	561-1012-ND	1350.00	CME8000-EK
Development Board for CME8000 UTC Receiver	561-1017-ND ***NEW!***	225.00	CMMC-8I-DB
UTC Receiver IC, 16-SSOP	561-1013-1-ND◊ 561-1013-2-ND§	2.94 5280.00/4,000	CME6005-TCQH CME6005-TCQH
UTC Receiver Module, 60kHz, no CPU	561-1014-ND	10.70	CMMR-6P-60

◊ Cut Tape § Tape and Reel

CIRRONET

RF Modules and Kits

ZMN2405HP
Features: • Zigbee 2006 Modules Utilize 2.4GHz Direct Sequence Spread Spectrum (DSSS) • Ad Hoc mesh network • Low Power (see chart) • SPI and UART Interface • FCC and CE Certified for Unlicensed Operation Coordinator (-C), Router (-R) and End Device (-E) versions available

WIT2450 Features: • 2.4GHz Frequency Hopping Spread Spectrum (FHSS) • Auto Ranging • Low Power (see chart) • FCC and ETSI Certified for unlicensed operation • RS-232 asynch interface
WIT910 Features: • 900MHz FHSS • 20+ mile range (Line of Sight) with Omni-Directional Antenna • FCC Certified for unlicensed operation • RS-232 asynch interface

Transceiver Modules

Power Output (mW)	Receive Sensitivity (dBm)	OperatingTemperature (C°)	Operating Voltage (Vdc)	Data Rate (Max. Kbps)	Power Consumption Sleep/Rec./Time	Digi-Key Part No.	Price Each	Cirronet Part No.
+18dBm	-95	-40 ~ 85	2.7 ~ 3.6	250	3µ/33mA/150mA	583-1016-ND 583-1018-ND 583-1017-ND	36.06 36.06 36.06	ZMN2405HP-C ZMN2405HP-E ZMN2405HP-R
0dBm	-92	-40 ~ 85	3.3 ~ 5.5	250	3µ/33mA/130mA	583-1023-ND ***NEW!*** 583-1025-ND ***NEW!*** 583-1024-ND ***NEW!***	21.41 21.41 21.41	ZMN2430-C ZMN2430-E ZMN2430-R
18dBm	-95	-40 ~ 85	3.3 ~ 5.5	250	3µ/33mA/130mA	583-1026-ND ***NEW!*** 583-1028-ND ***NEW!*** 583-1027-ND ***NEW!***	36.06 36.06 36.06	ZMN2430HP-C ZMN2430HP-E ZMN2430HP-R
10, 63, 250† 10, 100, 500†	-92 -103	-40 ~ 70 -40 ~ 85	3.3 ~ 10 3.3 ~ 10	460.8 172.8	750µA/40mA/150mA 250µA/100mA/100mA	583-1006-ND 583-1008-ND	147.20 278.99	WIT2450 WIT910

† Software Selectable

Development Kits and Boards

Description	Digi-Key Part No.	Price Each	Cirronet Part No.
ZMN2405HP Daughter Board	583-1019-ND	195.50	ZMN2405HPDB
Zigbee Developer's Kit with ZMN2405HP (2), Antennas, Cables, and Software	583-1020-ND	331.20	ZMN2405HPDK
Zigbee Developer's Kit with ZMN2405HP (4), Serial Gateway, Antennas, Cables and Software	583-1021-ND	555.20	ZMN2405HPDK PRO
Zigbee Basic Developer's Kit with Serial Modem and Devloper's Board, Antennas, Cables and Software	583-1022-ND	220.80	ZMN2405HPDK-B
Developer's Kit for WIT2450 Module with Modems (2), Antennas, Cables and Configuration Software	583-1007-ND	498.99	WIT2450DK
Developer's Kit for WIT910 Module with Modems (2), Antennas, Cables and Configuration Software	583-1009-ND	799.00	WIT910DK

CREE®

High Wattage SiC RF Power MESFETs

Cree is a leading supplier of silicon carbide (SiC) and gallium nitride (GaN) wafers and devices for wireless communications. Typical applications include: • 2-Way, Private Radios • Broadband Amplifiers • Cellular Infrastructure • Test Instrumentation • Class A, AB, Linear Amplifiers Suitable with OFDM, W CDMA, Edge, CDMA Wave Forms.

Cree wireless devices are especially well-suited for high-power communications because of the material used, silicon carbide (SiC). SiC has several intrinsic advantages that enable broadband amplifiers for UHF, L Band and S Band applications. These properties include: • High thermal conductivity • High breakdown electric field • High saturated electron drift velocity • High power density (power per unit gate periphery). These features make SiC MESFET an attractive power FET for multi-octave to decade bandwidth power amplifiers.

Style	Current Revision	Frequency (GHz)	Output Power (W)	Gain (dB)	Operating Voltage (V)	Digi-Key Part No.	Price Each 1	10	50	Cree Part No.
Flanged	1.5	to 2.7	10	15	28~48	CRF24010FE-ND	150.00	145.50	138.23	CRF24010FE
Pill	1.8	to 2.7	10	15	28~48	CRF24010PE-ND	150.00	145.50	138.23	CRF24010PE
Flanged	1.3	to 2.7	60	13	28~48	CRF24060FE-ND	623.70	549.99	522.49	CRF24060FE
Demonstration Test Fixture for CRF24010						CRF24010-TB-ND	500.00	—	—	CRF24010-TB
Demonstration Test Fixture for CRF24060						CRF24060-TB-ND	500.00	—	—	CRF24060-TB

csr

UniFi™ WLAN ICs

UniFi UF1050 single-chip device supports IEEE 802.11b and IEEE 802.11g standards on a single die, operating in the 2.4GHz radio band. **Features:** • Dual mode IEEE 802.11b/g chip • Small board footprint; minimal external components required • Support for IEEE 802.11e EDCA QoS • Full support for WEP40/64, WEP104/128 and WPA/WPA2 (802.11i) enhanced encryption modes • Bluetooth/Wi-Fi/cellular coexistence support • Priority and channel coexistence signaling schemes • Long battery life in Power Save

WLAN Support	Interface	Features	Supply Voltage (v)	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	50	CSR Part No.
802.11b/g	SDIO/SPI	OFDM/CCK	1.5	88-CSP	UF1050A-IC-ECT-ND UF1050A-IC-ETR-ND‡	15.48	13.62 16100.00/2,000	10.53	UF1050A-IC-E UF1050A-IC-E
802.11b/g	SDIO/SPI	OFDM/CCK	1.5	88-WLCSP	UF1050B-IC-ECT-ND UF1050B-IC-ETR-ND‡	11.85	10.43 12320.00/2,000	8.06	UF1050B-IC-E UF1050B-IC-E

‡ Tape and Reel

UniSira™ Development Kit

The UniSira Development Kit is a highly flexable, fully integrated, development and testing platform for CSR's range of UniFi™ IEEE802.11 wireless ICs.

UNISIRA-PPA-1A-ND	Development Kit for UniFi Wireless ICs	**$2125.00**
DEV-SYS-1824-3A-ND	***NEW!*** SDIO Card Reference Design for UniFi	**$85.00**

Wi-Fi Voice Development Kit

The DEV-SYS-UNIVOX Development Kit provides a complete Voice-over-Wi-Fi phone reference platform. The UniVox platform provides the hardware design, with no license or royalty payment required. You can configure the MMI or leave it as is to develop your complete Voice-over-Wi-Fi Solution.

DEV-SYS-UNIVOX-6A-ND	UniVox Voice over Wi-Fi Reference Design Development Solution	**$500.00**

Wireless Products

Bluetooth® ICs

The BlueCore™ line of Bluetooth products from CSR integrate a microcontroller along with peripherals to match your application requirements. Variants are available with integrated ROM or flash, Multimedia versions with integrated DSP and stereo codec, or Plug-n-Go™ with integrated balun, filter and matching. **BlueCore3:** CSR's complete v1.2 Bluetooth solution including eSCO (extended Synchronous Connections), which allows for retransmissions of dropped packets, allowing for a clearer, better sound out of your Bluetooth device. **BlueCore4:** CSRs EDR (Enhanced Data Rate) v2.0 Bluetooth solution, it offers backwards compatibility with v1.1 and v1.2 Bluetooth devices. External Flash, ROM, Plug-n-Go and Headset versions are available to match your application. Offers up to 3 times the data rate as previous versions of Bluetooth with lower power consumption. **BlueCore5:** series offers the latest generation technology, offering compatibility with the latest Bluetooth spec, v2.1. **BlueCore 6:** series provides the AuriStream audio interface, which provides significant power saving over previous CVSD (Continuous Variable Slope Delta)

Integration Type	Flash (Mbits)	ROM (Mbits)	On-Chip Codec	Features/Operating Voltage	Package	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	CSR Part No.
BlueCore3												
ROM	—	4	No/PCM Interface	Dual UART Ports, Self Test / 1.8V	42-CSP	BC313141A18-IXF-E4CT-ND	4.75	41.80	161.50	BC313141A18-IXF-E4TR-ND	2460.00/M	BC313141A18-IXF-E4
ROM	—	4	No/PCM Interface	USB, Self Test / 1.8V DSP Co-Processor,	84-VFBGA	BC313143A18-IRK-E4CT-ND	5.40	47.52	183.60	BC313143A18-IRK-E4TR-ND	2810.00/M	BC313143A18-IRK-E4
Multimedia, External Flash	—	—	16-Bit Stereo Audio	Dual UART, Scatternet / 1.8V	120-VFBGA	BC352239A-IVQ-E4CT-ND	9.75	85.80	331.50	BC352239A-IVQ-E4TR-ND	5070.00/M	BC352239A-IVQ-E4
Multimedia, Plug-n-Go	8	—	16-Bit Stereo Audio	DSP Co-Processor, Dual UART, Scatternet, Regulator / 1.8V	96-LFBGA	BC358239A-INN-E4CT-ND	17.85	157.08	606.90	BC358239A-INN-E4TR-ND	9280.00/M	BC358239A-INN-E4
Audio Flash	6	—	15-Bit Linear Audio	UART, Scatternet, On-Chip Regulator and Battery Charger / 1.8V	96-TFBGA	BC31A223A-IVN-E4CT-ND	12.15	106.92	413.10	BC31A223A-IVN-E4TR-ND	6320.00/M	BC31A223A-IVN-E4
BlueCore4												
External Flash	—	—	No/PCM Interface	Dual UART Ports, USB, Scatternet, Regulator, Wi-Fi Coexistence / 1.8V	96-TFBGA	BC417143B-IQN-E4CT-ND	5.85	51.48	198.90	BC417143B-IQN-E4TR-ND	3040.00/M	BC417143B-IQN-E4
External Flash	—	—	No/PCM Interface	Dual UART Ports, USB, Scatternet, Regulator, Wi-Fi Coexistence / 1.8V	96-VFBGA	BC417143B-IRN-E4CT-ND	5.85	51.48	198.90	BC417143B-IRN-E4TR-ND	3040.00/M	BC417143B-IRN-E4
ROM	—	4	No/PCM Interface	Dual UART Ports, USB, Scatternet, Regulator, Wi-Fi Coexistence / 1.8V	84-VFBGA	BC41B143A06-IRK-E4CT-ND	5.53	48.62	187.85	BC41B143A06-IRK-E4TR-ND	2870.00/M	BC41B143A06-IRK-E4
ROM	—	4	No/PCM Interface	USB, UART, Scatternet, Regulator, Wi-Fi Coexistence / 1.8V	47-CSP	BC41B143A06-IXB-E4CT-ND	4.95	43.56	168.30	BC41B143A06-IXB-E4TR-ND	2570.00/M	BC41B143A06-IXB-E4
Flash, Plug-n-Go	8	—	PCM Interface	Dual UART Ports / 1.8V	96-LFBGA	BC419143B-ANN-E4CT-ND	17.15	150.92	583.10	BC419143B-ANN-E4TR-ND	8920.00/M	BC419143B-ANN-E4
ROM, Plug-n-Go	—	4	PCM Interface	Dual UART Ports / 1.8V	96-LFBGA	BC41B143A06-ANN-E4CT-ND	10.00	88.00	340.00	BC41B143A06-ANN-E4TR-ND	5190.00/M	BC41B143A06-ANN-E4
Headset	—	6	15-Bit Linear Audio	UART, Regulator, Battery Charger / 1.8V	96-TFBGA	BC413159A06-IPK-E4CT-ND	9.15	80.50	311.00	BC413159A06-IPK-E4TR-ND	4940.00/M	BC413159A06-IPK-E4
Headset	—	6	15-Bit Linear Audio	USB, UART, Regulator, Battery Charger / 1.8V	96-TFBGA	BC413159A10-IPK-E4CT-ND	8.25	72.60	280.50	BC413159A10-IPK-E4TR-ND	4290.00/M	BC413159A10-IPK-E4
Headset	—	6	15-Bit Linear Audio	USB, UART, Regulator / 1.8V	56-QFN	BC413159A11-IQA-E4CT-ND	5.75	50.60	195.50	BC413159A11-IQA-E4TR-ND	3000.00/M	BC413159A11-IQA-E4
Audio ROM	6	—	15-Bit Linear Audio	UART, Regulator / 1.8V	96-TFBGA	BC413159B10-IPK-E4CT-ND	8.10	71.28	275.40	BC413159B10-IPK-E4TR-ND	4209.99/M	BC413159B10-IPK-E4
Audio Flash	6	—	15-Bit Linear Audio	UART, LED Driver, Regulator, Battery Charger / 1.8V	96-TFBGA	BC41C671A-IPK-E4CT-ND	11.25	99.00	382.50	BC41C671A-IPK-E4TR-ND	5850.00/M	BC41C671A-IPK-E4
BlueCore5												
Multimedia, External Flash	—	—	16-Bit Stereo Audio	USB, UART, Regulator, Battery Charger / 1.5V	169-TFBGA	BC57E687B-ITB-E4CT-ND	10.50	92.40	357.00	BC57E687B-ITB-E4TR-ND	5460.00/M	BC57E687B-ITB-E4
ROM HCI, FM	—	6	No/PCM Interface	FM Radio, v2.1+ EDR, Dual UART up to 4Mbps	84-VFBGA	BC51E130A14-IRK-E4CT-ND ***NEW!***	6.90	60.72	234.60	BC51E130A14-IRK-E4TR-ND ***NEW!***	3589.99/M	BC51E130A14-IRK-E4
ROM HCI, FM	—	6	No/PCM Interface	FM Radio, v2.1+ EDR, Dual UART up to 4Mbps	67-WLCSP	BC51E129B14-IYH-E4CT-ND ***NEW!***	6.30	55.44	214.20	BC51E129B14-IYH-E4TR-ND ***NEW!***	3280.01/M	BC51E129B14-IYH-E4
Multimedia ROM	—	8	16-Bit Stereo Audio	DSP Co-Processor, v2.1+ EDR, Dual UART ports up to 4Mbps	68-QFN	BC57F687A04-IQF-E4CT-ND ***NEW!***	8.70	76.56	295.80	BC57F687A04-IQF-E4TR-ND ***NEW!***	6090.00/M	BC57F687A04-IQF-E4
Multimedia ROM	—	8	16-Bit Stereo Audio	DSP Co-Processor, v2.1+ EDR, Dual UART ports up to 4Mbps and USB	120-TFBGA	BC57F687A04-ITN-E4CT-ND ***NEW!***	9.45	83.16	321.30	BC57F687A04-ITN-E4TR-ND ***NEW!***	6620.00/M	BC557F687A04-ITN-E4
Multimedia Flash	8	—	16-Bit Stereo Audio	DSP Co-Processor, v2.1+ EDR, Dual UART ports up to 4Mbps and USB, I2C	120-LFBGA	BC57H687C-ITM-E4CT-ND ***NEW!***	14.40	126.72	489.60	BC57H687C-ITM-E4TR-ND ***NEW!***	10080.00/M	BC57H687C-ITM-E4
NEW! BlueCore6 NEW!												
ROM	—	4	PCM Interface/ AuriStream 16-Bit	SDIO/CSPI/UART Interface up to 4Mbaud	51-WLCSP	BC63B239A04-IUE-E4CT-ND BC63B239A04-IYB-E4CT-ND	4.95 4.80	43.56 42.24	168.30 163.20	BC63B239A04-IUE-E4TR-ND BC63B239A04-IYB-E4TR-ND	3470.00/M 3360.00/M	BC63B239A04-IUE-E4 BC63B239A04-IYB-E4
Audio ROM	—	6	AuriStream 16-Bit	Internal Regulator, Battery Charger, External CODEC Support	48-QFN 64-BGA	BC63C159A03-IQB-E4CT-ND BC63C159A03-IVA-E4CT-ND	6.33 6.93	55.66 60.94	215.05 235.45	BC63C159A03-IQB-E4TR-ND BC63C159A03-IVA-E4TR-ND	4430.00/M 4950.00/M	BC63C159A03-IQB-E4 BC63C159A03-IVA-E4

Bluetooth® Application Development Kits and Reference Design Kits

CSR Bluetooth Development Kits and Reference Design Kits provide hardware to evaluate many different application possibilities and give you the opportunity to develop with different BlueCore™ devices. SYS Kits provide components with Bluetooth application profile(s) along with CD with PSKEY editing software.

BC2ABCD-USB-ND	USB Dongle Reference Design, BlueCore2 for WHQL Testing	**$119.00**
BTN-001A-ND	BlueTunes1 Development Kit for Wireless Stereo Audio, BlueCore3 Multimedia	**$500.00**
BTN-002-2B-ND	BlueTunes2 Development Kit for Wireless Stereo Audio, BlueCore5 Multimedia	**$1000.00**
DEV-SYS-1645B3-1A-ND	BC5-MM Development Board only, BlueTunes2 — ***RoHS Compliant***	**$400.00**
BV-001-3A-ND	BlueVox Development Board, Wireless Audio (Mono) — ***RoHS Compliant***	**$600.00**
BV-001-4A-ND	BlueVox Development Board Wireless Audio (Mono), for BlueVox QFN — ***RoHS Compliant***	**$500.00**
DEV-SYS-1487-1B-ND	USB Dongle Bluetooth EDR Reference Design, Nanosira, BlueCore4 External — ***RoHS Compliant***	**$100.00**
DEV-SYS-1504-1A-ND	UART and SPI Level Shifter Interface Board for UniFi or BlueCore	**$300.00**
DEV-RR-001-1A-ND	RoadRunner Plug-n-Talk Reference Design Hardware, vehicle plug in for hands-free evaluation	**$1000.00**
DEV-RR-SDK-01A-ND	RoadRunner Plug-n-Talk Software Development Kit	**$2000.00**
DEV-PC-1309C-ND	UART and SPI Interface Board for BlueCore, Board Only— ***RoHS Compliant***	**$93.75**
DEV-SYS-1309-1C-ND	UART and SPI Interface Board with Cables for BlueCore — ***RoHS Compliant***	**$93.75**
DEV-MP3-1A-ND	***NEW!*** BluePlayer MP3 Development Kit — ***RoHS Compliant***	**$1250.00**
DEV-SYS-RADIOPRO-1A-ND	***NEW!*** RadioPro Development Kit, Wireless Internet Radio — ***RoHS Compliant***	**$2995.00**
DEV-SYS-1808-1A-ND	***NEW!*** USB to SPI Interface Converter — ***RoHS Compliant***	**$211.25**
DEV-SYS-1519-1B-ND	***NEW!*** Reference Design Kit, BC4-ROM A07 Module — ***RoHS Compliant***	**$250.00**
DEV-SYS-0101-1A-ND	***NEW!*** BC5-FM Development Kit — ***RoHS Compliant***	**$250.00**
DEV-SYS-0104-1A-ND	***NEW!*** BC5-FM CSP Package Development Kit — ***RoHS Compliant***	**$250.00**
DEV-SYS-0114-1A-ND	***NEW!*** BC6-ROM Development Kit — ***RoHS Compliant***	**$250.00**
DEV-SYS-0115-1A-ND	***NEW!*** BC6-ROM QFN Development Kit — ***RoHS Compliant***	**$250.00**
DEV-SYS-MONOHS-1A///-ND	***NEW!*** BC5-MM Dual Microphone Headset Development Kit — ***RoHS Compliant***	**$500.00**
DEV-RR-002-2A-ND	***NEW!*** RoadRunner 2 Reference Design Hardware — ***RoHS Compliant***	**$1000.00**
DEV-RR-SDK-02A-ND	***NEW!*** RoadRunner 2 Software Development Kit — ***RoHS Compliant***	**$2000.00**

Bluetooth® Development Tools Casira™

The Casira Development Kit allows for the development and testing of your Bluetooth design. This kit includes; 2 Casira development pods (each pod includes a BlueCore™ based module), power supplies and cords, programming and RS232 cables, 2 headsets and a CD with documentation and BlueSuite Software. BlueSuite includes drivers to communicate with the BlueCore devices at the HCI and RFCOMM layers, and programs such as BlueChat for establishing a data or voice link, and BlueTest which can be used to put the BlueCore device into test modes for radio development and qualification. BlueSuite also provides a Flash ROM loader and Device Firmware upgrade Wizard.

BCES01-ND	Bluetooth Development Kit	**$3000.00**
BCES01-EP-ND	Casira End Point (Development Pod) — ***RoHS Compliant***	**$700.00**
ANT001-ND	Antenna for Casira Module	**$18.26**
CK001-ND	Connector Kit (as fitted to Casira Motherboard)	**$24.60**
CK003-ND	Parallel-RJ45+ Cable (XSPI + SPI Cable) — ***RoHS Compliant***	**$26.25**
STK-417143B-1B-ND	Module (2) for Casira Development Kit — ***RoHS Compliant***	**$250.00**

BlueLab™ SDK

The BlueLab SDK (Software Development Kit) provides developers with a graphical user interface to develop their Bluetooth application on the microcontroller that is on the BlueCore devices, providing for applications without a separate host processor. The xIDE development environment provides a Project Manager Interface to make development easier. BlueLab also provides source codes for several Bluetooth application profiles: SPP (Serial Port Profile), DUN (Dial-Up Networking), HID (Human Interface Devices), A2DP (Advanced Audio Distribution Profile), AVRCP (Audio Video Remote Control Profile) and others.

BLUELAB-ND	Bluetooth Software Development Kit	**$3000.00**
BLAB3UP001-ND	Upgrade to BlueLab 3.x — ***RoHS Compliant***	**$500.00**

WirelessUSB™

The **CYWUSB6934** Integrated Circuits (ICs) are highly integrated 2.4GHz Direct Sequence Spread Spectrum (DSSS) Radio System-on-Chip (SoC) ICs. From the Serial Peripheral Interface (SPI) to the antenna, these ICs are single-chip 2.4GHz DSSS Gaissiam Frequency Shift Keying (GFSK) baseband modems that connect directly to a USB controller or a standard microcontroller. The **CYWUSB6935** transceiver is a single-chip 2.4GHz Direct Sequence Spread Spectrum (DSSS) Gaussian Frequency Shift Keying (GFSK) baseband modem radio that connects directly to a microcontroller. The **CYRF6936** WirelessUSB LP is interoperable with the first generation CYWUSB69xx devices. It adds a range of enhanced features, including increased operating voltage range, reduced supply current, and higher data rate options.

Function	Range (meters)	Throughput (Kbps)	Package	Temperature Range (°C)	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
Transceiver	10	62.5	48-QFN	0 ~ 70	428-1624-ND	8.40	5.40	4.38	CYWUSB6934-48LFXC
	50	62.5	48-QFN	0 ~ 70	428-1625-ND	10.98	6.80	5.49	CYWUSB6935-48LFXC
	50	62.5	48-QFN	-40 ~ 85	428-1626-ND	12.63	7.80	6.32	CYWUSB6935-48LFXI
	10	1Mbps	40-QFN	0 ~ 70	428-2024-ND	3.94	3.15	2.45	CYRF6936-40LFXC

Wireless USB Radio Modules

The CYWM6934/CYWM6935 WirelessUSB Radio Modules offer a complete radio module solution for integration into existing or new 2.4GHz products. These modules are tested for functional operation and are FCC/ETSI(EU)/Industry pre-certified. Modules are supplied with integrated PCB trace antennas. Available in small PCB design which allows the modules to be mounted horizontally to the device PCB via a 12-pin header.

Applications (CYWM6934): • Keyboards • Game Controllers • Console Keyboards • Presenter Tools • Remote Controls

Applications (CYWM6935): • Presenter Tools • Remote Controls • Automatic Meter Reading (AMR) • Lighting Control • Factory Automation • Alarm and Security

CYWM6934 Features: • Range of up to 10 meters • Data Throughput up to 65 kbits/sec • Operating Voltage: 2.7 ~ 3.6V • Small PCB Design: .975" (24.38mm) x .65" (16.25mm) x .212" (5.3mm) (L x W x H) • FCC Approved

CYWM6935 Features: • Range of up to 50 meters • Data Throughput up to 65 kbits/sec • Operating Voltage: 2.7 ~ 3.6V • Small PCB Design: .95" (23.75mm) x .95" (23.75mm) x .212" (5.3mm) (L x W x H) • FCC Approved

428-1945-ND	CYWM6934 LS™ Module	**$10.33**
428-1946-ND	CYWM6935 LR™ Module	**$9.75**

PRoC™ (Programmable Radio on Chip)

A flash-based programmable radio system-on-a-chip. The PRoC is the world's first low-cost, flash-programmable microcontroller with an integrated 2.4GHz radio transceiver. The microcontroller is a powerful mixed-signal array. It has highly reconfigurable and flexible digital and analog blocks. The microcontroller core is the M8C 8-bit engine that supports a rich instruction set. It contains 512 bytes of data SRAM and 8 kilobytes code flash memory.

Memory Size	RAM (Bytes)	USB	Range (Maximum)	Throughput (Maximum)	Package	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
8Kb	512	No	50 meters	62.5Kbps	48-QFN	428-1771-ND	8.00	6.40	5.40	CYWUSB6953-48LFXC
8Kb	256	No	10 meters	1Mbps	40-QFN	428-1933-ND	5.60	4.48	3.78	CYRF69103-40LFXC
8Kb	256	Yes	10 meters	1Mbps	40-QFN	428-1934-ND	5.90	4.72	3.99	CYRF69213-40LFXC

Development Kit for PRoC™

The PRoC (Programmable-Radio-on-a-Chip™) Development Kit (CY3653) includes flexible development boards, PRoC modules, LCD modules, schematics, bills-of-materials, source code, and documentation for designers looking for a seamless transition from wired to wireless solutions. Customers can use the kit to achieve faster time to market for single-chip applications like small form-factor wireless keyboards and mice, presenter tools, wireless thermostats including LCD displays, precision remote controls for RC toys and more. PRoC combines Cypress's WirelessUSB™ 2.4-GHz radio-on-a-chip and PSoC® Programmable System-on-Chip™ mixed signal array in an integrated product. It integrates Cypress's Direct Sequence Spread Spectrum (DSSS) interference immunity technology with the power and flexibility of the PSoC architecture, offering a complete wireless solution in a single chip.

Kit Includes: • PSoC Evaluation Board • PRoC Modules for a fast plug-and-play solution • PRoC Programmer • LCD Module and a CD-ROM with kit documentation • Hardware schematics • Tutorial and firmware for application development.

428-1772-ND (CY3653)	Development Kit for PRoC	**$426.00**

NEW! GPS Module and Kit

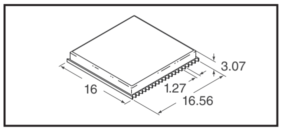

The GPS2058-10 module is a high sensitivity, low power, SMD type 16-channel GPS receiver designed for a broad spectrum of OEM applications. Based on the fast and deep GPS signal search capabilities of the STMicroelectronics (Teseo), it features an integrated RF block combined with the high performance CPU of ARM7TDMI microprocessor. The end result provides excellent navigation performance in the most challenging urban environments. The GPS2058-10 offers RTCA-SC159/WAAS/EGNOS support and provides excellent sensitivity and high configurability in a small package.

Description	Frequency (MHz)	Hot/Warm/Cold Start (Seconds)	Package	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing
16-Channel L1 GPS Receiver Module	1575.42	2.5 / 34 / 39	40-Pin SMD	GM-205810-000CT-ND§	41.65	32.04	29.91	GM-205810-000TR-ND	12959.97/500
Development Kit / Navigation System with Street Atlas Software, Antenna and Cables				GM-2058EV-101-ND	492.05	—	—	—	—

§ Cut Tape

XPress™ Ethernet Bridge

With a range of up to 15 miles (line-of-sight with a high gain antenna) and the ability to transmit through as many as 10 standard walls, the XEB™ (XPress Ethernet Bridge) is an easy-to-use wireless Ethernet bridge that uses the added range and capabilities of the 900MHz band to communicate where Wi-Fi and other wireless data products fall short.

XEB09-C Kit Includes: • (2) RF Modems • (2) 9VDC Power adapters • (2) 1/2 Wave antennas with RPTNC connector **XEB09-I Kit Includes:** • (2) RF Modems • (2) 9VDC Power adapters • (2) POE Injectors • (2) 30' CAT5e Outdoor Cables **XEB09-BCSA Kit Includes:** • (1) XEB Multipoint RF Modem • (1) Quick start guide/Manual • (1) 6VDC/110VAC power adapter • (1) 2dBi omni-directional antenna *Note: Does not include Ethernet cable* **XEB09-BCS Kit Includes:** • (1) XEB Multipoint RF Modem **XEB09-BISA Kit Includes:** • (1) XEB Multipoint RF Modem in NEMA-4 weatherproof enclosure • (1) Quick start guide/Manual • (1) 12VDC/110VAC power adapter • (1) 2dBi omni-directional antenna (high-gain antenna sold separately) • (1) Power over Ethernet injector *Note: Does not include Ethernet cable* **XEB09-BIS Kit Includes:** • (1) XEB Multipoint RF Modem in NEMA-4 weatherproof enclosure

Frequency	Power Output	RF Data Rate (Baud)	Connection Type	Use	Digi-Key Part No.	Price Each	Digi International Part No.
900MHz	125mW	1.5Mbps	Ethernet	Commercial	XEB09-C-ND	699.00	XEB09-C
				Industrial	XEB09-I-ND	999.00	XEB09-I
				Commercial	602-1089-ND‡	499.00	XEB09-BCSA
				Commercial	602-1090-ND‡	479.00	XEB09-BCS
				Industrial	602-1091-ND‡	659.00	XEB09-BISA
				Industrial	602-1092-ND‡	629.00	XEB09-BIS

‡ Multipoint

Wireless Accessories

Description	Connection Type	Digi-Key Part No.	Price Each	Digi International Part No.
Interface Board for XStream and XCite	RS-232/485	XIB-R-ND◆	50.00	XIB-R
Interface Board for XStream and XCite	USB	XIB-U-ND◆	50.00	XIB-U

Description	Connection Type	Digi-Key Part No.	Price Each	Digi International Part No.
1 Watt Interface Board for XTend	RS-232/485	XTIB-R-ND	80.00	XTIB-R
1 Watt Interface Board for XTend	USB	XTIB-U-ND	80.00	XTIB-U
Interface Board for XBee and XBee-PRO	RS-232	XBIB-R-ND◆	63.75	XBIB-R
Interface Board for XBee and XBee-PRO	USB	XBIB-U-ND◆	63.75	XBIB-U
9V Battery Adapter for RS-232 Board	—	JP2P3-C2C-4I-ND◆	5.00	JP2P3-C2C-4I
1' Right Angle Male to N-Male	RPSMA	JR2N1-CL1-1F-ND◆ ***NEW!***	32.50	JR2N1-CL1-1F
4' Right Angle Male to N-Male		JR2N1-CL1-4F-ND◆ ***NEW!***	37.75	JR2N1-CL1-4F
6' Right Angle Male to N-Male		JR2N1-CL1-6F-ND◆ ***NEW!***	39.76	JR2N1-CL1-6F
10' Right Angle Male to N-Male		JR2N1-CL1-10F-ND◆ ***NEW!***	43.76	JR2N1-CL1-10F
20' Right Angle Male to N-Male		JR2N1-CL1-20F-ND◆ ***NEW!***	49.00	JR2N1-CL1-20F
RF Cable Assembly Adapter for connecting RPSMA antenna to U.FL connector	RPSMA	JF1R6-CR3-4I-ND◆ ***NEW!***	4.48	JF1R6-CR3-4I

◆ ***RoHS Compliant***

NEW! Antennas

Type	Gain (dBi)	Frequency (MHz)	Impedance (Ω)	Connector	Digi-Key Part No.	Price Each	Digi International Part No.
Omni	2.1	902-928	50	N-Type Female	A09-F2NF-M-ND	138.38	A09-F2NF-M
	5.1				A09-F5NF-M-ND	195.75	A09-F5NF-M
	8.1				A09-F8NF-M-ND	217.00	A09-F8NF-M
Yagi	8.1	896-980	—	8" Pigtail with N-Type Female	A09-Y8NF-ND	67.50	A09-Y8NF
	11.1	895-940			A09-Y11NF-ND	93.75	A09-Y11NF
Omni	2.1	900	50	RPSMA	A09-HASM-675-ND	21.25	A09-HASM-675
	3.0				A09-HSM-7-ND	22.67	A09-HSM-7
Omni	2.1	2.4GHz	50	RPSMA	A24-HASM-450-ND	6.07	A24-HASM-450
					A24-HASM-525-ND	22.50	A24-HASM-525

Stand-Alone Radio Modems

Digi International stand-alone radio modems were designed to provide end users with an easy-to-install wireless serial communication link.

Features:
• Plug and communicate (no configuration required) • Transparent operation supports existing software and systems • Retries and acknowledgements for guaranteed packet delivery • RS-232/422/485, Ethernet, USB protocol and multi-drop bus support • Low power modes for current consumption as low as 1mA • Support for multiple data formats (7/8 bits, Even/Odd/No Parity) • Selectable power outputs

Includes:
• Stand-Alone Radio Modem • CD (software and documentation) • 1/2 wave antenna • Serial loopback adapter • NULL modem adapter(male-to-male) • NULL modem adapter(female-to-female) • Male DB-9 to RJ-45 adapter • Female DB-9 to RJ-45 adapter • Power adapter • 9V battery adapter • RS-232 cable (6')

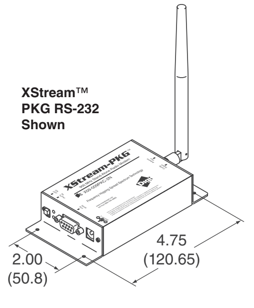

Dim. in inches (mm)

Fre-quency	Power Output	RF Data Rate (Baud)	Connection Type	Digi-Key Part No.	Price Each	Digi International Part No.
900 MHz	1Watt	115K	RS-232	XT09-PKI-RA-ND	299.00	XT09-PKI-RA
900 MHz	1Watt	115K	USB	XT09-PKC-UA-ND◆	319.76	XT09-PKC-UA
900 MHz	100mW	9600	RS-232	X09-009PKC-RA-ND◆	250.00	X09-009PKC-RA
900 MHz	100mW	19.2K	RS-232	X09-019PKC-RA-ND◆	250.00	X09-019PKC-RA
2.4 GHz	50mW	9600	RS-232	X24-009PKC-RA-ND◆	199.00	X24-009PKC-RA
2.4 GHz	50mW	19.2K	RS-232	X24-019PKC-RA-ND	199.00	X24-019PKC-RA
900 MHz	100mW	9600	USB	X09-009PKC-UA-ND	250.00	X09-009PKC-UA
900 MHz	100mW	19.2K	USB	X09-019PKC-UA-ND	250.00	X09-019PKC-UA
2.4 GHz	50mW	9600	USB	X24-009PKC-UA-ND	199.00	X24-009PKC-UA
2.4 GHz	50mW	19.2K	USB	X24-019PKC-UA-ND	199.00	X24-019PKC-UA
900 MHz	100mW	9600	Ethernet	X09-009PKC-EA-ND◆	350.00	X09-009PKC-EA
900 MHz	100mW	19.2K	Ethernet	X09-019PKC-EA-ND	350.00	X09-019PKC-EA
900 MHz	4mW	38.4K	RS-232	XC09-038PKC-RA-ND	99.00	XC09-038PKC-RA
900 MHz	4mW	38.4K	USB	XC09-038PKC-UA-ND	99.00	XC09-038PKC-UA

◆ ***RoHS Compliant***

Wireless Development Kits

Development Kit Features:
- Plug-and-communicate (default mode - no configuration required)
- True peer to peer network (no need to configure a "Master" radio)
- Transparent mode supports existing software applications and legacy systems
- Addressing capabilities provide for point-to-point and point-to-multipoint networks
- Uses standard AT commands and/or fast binary commands for changing parameters
- Native RS485/422 (multi-drop-bus) protocol support
- Retries and acknowledgements of packets
- Provides guaranteed delivery of critical packets in difficult environments
- Multiple low power modes including shutdown pin, cyclic sleep and serial port sleep
- Signal strength register for link quality monitoring and debugging

XStream™ Development Kits Include:
- XStream wireless module with an integrated wire antenna
- XStream wireless module with 1/2 Wave dipole antenna
- (2) RS-232/422/485 interface boards
- CD (X-CTU™ software and documentation)
- Serial loopback adapter
- NULL modem adapter (male-to-male)
- NULL modem adapter (female-to-female)
- Male DB-9 to RJ-45 adapter
- Female DB-9 to RJ-45 adapter
- (2) Power adapters
- 9V battery adapter
- (2) RS-232 cables (6')

XCite™ Development Kits Include:
- XCite wireless module with an integrated wire antenna
- XCite wireless module with 1/2 wave dipole antenna
- (2) RS-232 PC serial interface boards
- (2) DSub-9 serial cables
- (2) 9V 400mA power supplies
- 9V battery clip adapter
- Serial loopback adapter
- NULL modem adapter (male-to-male)
- NULL modem adapter (female-to-female)
- X-CTU test/config. utility software (EXE file)

XTend™ Development Kits Include:
- (2) XTend OEM RF modules with 1/2 wave dipole antennas
- (2) RS-232 PC serial interface boards
- (2) DSub-9 serial cables
- (2) 9V 400mA power supplies
- 9V battery clip adapter
- Serial loopback adapter
- NULL modem adapter (male-to-male)
- NULL modem adapter (female-to-female)
- X-CTU test/config. utility software

Frequency	Power Output	RF Data Rate (Baud)	Digi-Key Part No.	Price Each	Digi International Part No.
XStream Development Kits					
900 MHz	100mW	9600	X09-009-DK-ND	409.00	X09-009-DK
900 MHz	100mW	19.2K	X09-019-DK-ND	409.00	X09-019-DK
2.4 GHz	50mW	9600	X24-009-DK-ND◆	409.00	X24-009-DK
2.4 GHz	50mW	19.2K	X24-019-DK-ND◆	409.00	X24-019-DK
XCite Development Kits					
900 MHz	5mW	9600	XC09-009-DK-ND◆	149.00	XC09-009-DK
900 MHz	5mW	38.4K	XC09-038-DK-ND	149.00	XC09-038-DK
XTend Development Kits					
900 MHz	1 Watt	115K	XT09-DK-ND	499.00	XT09-DK

◆ ***RoHS Compliant***

Wireless OEM Modules

XStream™, XCite™ and XTend™ Wireless OEM Modules were designed to provide product designers with a transparent and easy to design-in wireless serial communication link.

Features:
- Plug-and-communicate (no configuration required)
- Transparent operation supports existing software and systems
- 5V CMOS level serial interface (configurable interface baud rate)
- XON/XOFF or hardware flow control
- Support for multiple data formats (7/8/9 bits, Even/Odd/No Parity)
- Low power modes down to 10μA

***XStream:* Range:** Up to 1500 feet indoor/urban • Up to 7 miles line-of-sight with dipole • Up to 20 miles line-of-sight with high gain • Allows up to 7 FHSS (frequency hopping spread spectrum) pairs to operate in close proximity • Board size: 1.6" (40.64mm) x 2.825" (71.755mm) • -110dBm receiver sensitivity **Power:** 5VDC supply voltage

***XCite:* Range:** 300 feet indoor/urban • 1000 feet line-of-sight with dipole • Allows up to 7 FHSS (frequency hopping spread spectrum) pairs to operate in close proximity • -108dBm receiver sensitivity • Board size: 1.6" (40.64mm) x 2.825" (71.755mm) **Power:** 2.85VDC to 5.50VDC

***XTend:* Range:** Up to 3,000 feet indoor/Urban • Up to 14 miles line-of-sight with dipole • Up to 40 miles line-of-sight with high gain • Allows up to 10 FHSS (frequency hopping spread spectrum pairs to operate in close proximinity) • -110dBm receiver sensitivity • Board size 1.456: (36.98mm) x 2.402" (61mm) **Power:** 2.8 to 5.5VDC

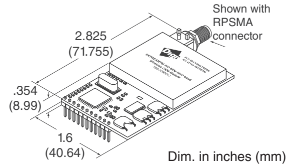

Dim. in inches (mm)

Frequency	Power Output	RF Data Rate (Baud)	Connector/ Antenna Type	Digi-Key Part No.	Price Each	Digi International Part No.
XStream Modules						
900 MHz	100mW	9600	RPSMA	X09-009NSC-ND◆	181.45	X09-009NSC
900 MHz	100mW	19.2K	RPSMA	X09-019NSC-ND◆	181.45	X09-019NSC
900 MHz	100mW	9600	3" Wire	X09-009WNC-ND◆	166.94	X09-009WNC
900 MHz	100mW	19.2K	3" Wire	X09-019WNC-ND	166.94	X09-019WNC
2.4 GHz	50mW	9600	RPSMA	X24-009NSC-ND◆	99.00	X24-009NSC
2.4 GHz	50mW	19.2K	RPSMA	X24-019NSC-ND	111.86	X24-019NSC
2.4 GHz	50mW	9600	3" Wire	X24-009WNC-ND	107.34	X24-009WNC
2.4 GHz	50mW	19.2K	3" Wire	X24-019WNC-ND◆	107.34	X24-019WNC
XCite Modules — RoHS Compliant						
900 MHz	5mW	9600	3" Wire	XC09-009WNC-ND	41.61	XC09-009WNC
900 MHz	5mW	38.4K	3" Wire	XC09-038WNC-ND	41.61	XC09-038WNC
900 MHz	5mW	9600	RPSMA	XC09-009NSC-ND	43.87	XC09-009NSC
900 MHz	5mW	38.4K	RPSMA	XC09-038NSC-ND	43.87	XC09-038NSC
XTend Modules						
900 MHz	1 Watt	115K	RPSMA	XT09-SI-ND	179.00	XT09-SI
900 MHz	1 Watt	115K	MMCX	XT09-MI-ND	179.00	XT09-MI

◆ ***RoHS Compliant***

XBee™, XBee-PRO™ and XBee™ Series 2 Wireless Modules

XBee and XBee-PRO Wireless Modules were designed to provide all the benefits of low-power advanced networking in a low-cost solution that dramatically reduces time-to-market. In addition, the small form factor saves valuable board space. The XBee Series 2 is based on ZigBee/802.15.4 silicon from Ember™. It features ZigBee firmware for creating ad-hoc mesh networks.

Features:
• Plug and communicate (No configuration required) • Retries and acknowledgements for guaranteed packet delivery • Uses standard AT commands for changing parameters • Low power modes down to 10μA

Development Kit Includes:
• (2) XBee-PRO Modules with wire and U.FL • (3) XBee Modules with each antenna option • RPSMA 1/2 wave antenna • Cables • Connectors • XCTU Software • 9V clip and adaptor • (2) XBee-Series 2 OEM RF Modules • (5) Development Boards

Fre-quency	Power Output	RF Data Rate (Baud)	Connection / Antenna Type	Digi-Key Part No.	Price Each	Digi International Part No.
XBee Modules — RoHS Compliant						
2.4 GHz	1mW	250K	Whip Antenna	XB24-AWI-001-ND	19.00	XB24-AWI-001
2.4 GHz	1mW	250K	Chip Antenna	XB24-ACI-001-ND	23.20	XB24-ACI-001
2.4 GHz	1mW	250K	U.FL Connector	XB24-AUI-001-ND	23.20	XB24-AUI-001
XBee-PRO Modules — RoHS Compliant						
2.4 GHz	100mW	250K	Whip Antenna	XBP24-AWI-001-ND	32.00	XBP24-AWI-001
2.4 GHz	100mW	250K	Chip Antenna	XBP24-ACI-001-ND	36.00	XBP24-ACI-001
2.4 GHz	100mW	250K	U.FL Connector	XBP24-AUI-001-ND	36.00	XBP24-AUI-001
XBee Series 2 Modules — RoHS Compliant						
2.4 GHz	2mW	250K	Chip Antenna	XB24-BCIT-004-ND	21.00	XB24-BCIT-004
2.4 GHz	2mW	250K	Wire Antenna	XB24-BWIT-004-ND	21.00	XB24-BWIT-004
2.4 GHz	2mW	250K	RPSMA	XB24-BSIT-004-ND	23.00	XB24-BSIT-004
2.4 GHz	2mW	250K	U.FL Connector	XB24-BUIT-004-ND	21.00	XB24-BUIT-004
XBee, XBee-PRO and XBee Series 2 Development Kits						
Developer's Starter Kit for XBee				XB24-DKS-ND	129.00	XB-DKS
Developer's Kit for XBee-PRO				XBP24-DKS-ND	179.00	XBP-DKS
Development Kit for XBee-PRO				XB24-PDK-ND	339.00	XB24-PDK
Development Kit for XBee Series 2				XB24-BPDK-ND	339.00	XB24-BPDK

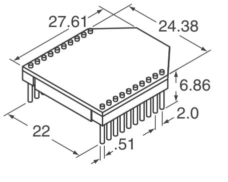

XBee/XBee Series 2 Module

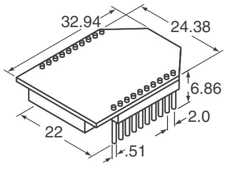

XBee-PRO Module

Dimensions in mm

Digi Connect® Wi-SP

The Wi-SP is built on leading NetSilicon® 32-bit NET+ARM technology. This wireless device server delivers a true plug-and-play device networking solution that combines the benefit of secure wireless networking technology with proven serial port connectivity. It is the ideal choice in retail, warehouse, healthcare and medical applications, allowing you to respond immediately to the ever-cha nging requirements and challenges.

Features:

• 32-bit NET+ARM high-performance RISC processor (NS7520 55MHz) • 4MB Flash and 16MB RAM integrated • Switch-selectable RS-232/422/485 interface (DB-9M): Throughput up to 230,400 bps; 7, 8 data bits; 1, 1.5, 2 stop bits; None/even/odd parity; Full signal support with software/hardware flow control • 802.11b wireless LAN interface; Infrastructure (BSS) and Ad-Hoc Mode (IBSS) • Flexible 9-30VDC power supply

Description	Digi-Key Part No.	Price Each	Digi International Part No.
2.4GHz Wireless Device Server Adapter	602-1032-ND	369.00	DC-WSP-01-S

Digi Connect® Wi-ME

The Digi Connect Wi-ME is a fully customizable and secure 802.11b wireless embedded module and makes fully transparent 802.11b integration possible without the traditional complexities of hardware and software integration work.

Features:

• 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55MHz) • Radio pre-certified in North America, EU and Japan • 2 high-speed TTL serial interfaces • On-board memory 4MB Flash and 8MB RAM • WPA/WPA2/802.11i • Transmit power: 16dBm typical • Receive sensitivity: -82dBm @ 11Mbps • Five shared General Purpose Input/Output (GPIO) ports • High-speed TTL serial interface • 3.3VDC @ 400mA max (1.32W)

Description	Digi-Key Part No.	Price Each	Digi International Part No.
8MB SDRAM, 4MB Flash, Std. Firmware	602-1037-ND◆	130.00	DC-WME-01T-S
8MB SDRAM, 4MB Flash, Customizable	602-1038-ND◆	130.00	DC-WME-01T-C
Integration Kit (for use with “S” models)	602-1051-ND◆	299.00	DC-WME-01T-KT
Development Kit (for use with “C” models)	602-1000-ND◆	1495.00	DC-WME-01T-GN
Development Kit without Raven Debugger (for use with “C” models)	602-1001-ND	895.00	DC-WME-01T-GN-NR
Customizable with JTAG Interface	602-1002-ND	249.00	DC-WME-01T-JT

◆ ***RoHS Compliant***

Digi Connect® Wi-EM

The Digi Connect Wi-EM is a fully customizable and secure 802.11b wireless embedded module that provides integration flexibility in a variety of connection options, and makes fully transparent 802.11b integration possible without the traditional complexities of hardware and software integration work.

Features:

• 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55 MHz) • 2 high-speed TTL serial interfaces • Radio pre-certified in North America, EU and Japan • On-board memory 4MB Flash and 8MB RAM • WPA/WPA2/802.11i • Transmit power: 16dBm typical • Receive sensitivity: -82dBm @ 11Mbps • Five shared General Purpose Input/Output (GPIO) ports • High-speed TTL serial interface • 3.3VDC @ 400mA max (1.32W)

Description	Digi-Key Part No.	Price Each	Digi International Part No.
8MB SDRAM, 4MB Flash, Std. Firmware without antenna	602-1067-ND◆	140.00	DC-WEM-02T-NC
8MB SDRAM, 4MB Flash, Std. Firmware	602-1041-ND◆	140.00	DC-WEM-02T-S
Integration Kit (for use with “S” models)	602-1008-ND◆	299.00	DC-WEM-02T-KT
Development Kit (for use with “C” models)	602-1009-ND	1495.00	DC-WEM-02T-GN
Development Kit without Raven Debugger (for use with “C” models)	602-1010-ND	895.00	DC-WEM-02T-GN-NR
Development Board with Customizable JTAG Wi-ME module	602-1011-ND	299.00	DC-WEM-02T-JT-DB
Customizable module with JTAG Interface	602-1012-ND◆	249.00	DC-WEM-02T-JT

◆ ***RoHS Compliant***

ConnectCore™ Wi-9C

Highly-integrated, compact DIMM form factor module based on the 155MHz NS9360 ARM9 processor provides core processing functionality with integrated network connectivity. It enables original equipment manufacturers to design in main processor functionality and networking capabilities with a single, high performance solution.

Features: • 32-bit NS9360 high performance RISC processor (155MHz) with MMU • Up to 4 high-speed TTL serial ports • Up to 4 SPI ports • I^{2}C v1.0 bus interface • USB 2.0 Host/Device Interface • LCD Controller • General Purpose Timers/Counters/PWM • 4 programmable external interrupts • Up to 55 shared General Purpose Input/Output (GPIO) ports • Real-time clock • Pin-compatible wired and wireless modules • Standard: IEEE 802.11b/g • Transmit power: 16dBm typical • Receive sensitivity: -73dBm at 54Mbps • Connector: 1/2 x RP-SMA or 2 x U.FL

Description	Digi-Key Part No.	Price Each	Digi International Part No.
JumpStart Kit for Wi-9C with NET+OS	602-1068-ND	499.00	CC-W9C-NET
JumpStart Kit for Wi-9C with Windows CE	602-1077-ND	499.00	CC-W9C-CE6
JumpStart Kit for Wi-9C with Embedded Linux	602-1078-ND	499.00	CC-W9C-LX

Antennas for Digi Wireless Modules

Description	Digi-Key Part No.	Price Each	Digi International Part No.
2.4GHz Dipole Antenna with 2dBi Gain	602-1064-ND◆	10.00	DC-ANT-24DP
2.4GHz Desktop Antenna with 2dBi Gain	602-1065-ND	20.00	DC-ANT-24DT
30cm Extension Cord with RP-SMA Bulkhead Connector	602-1066-ND◆	12.00	DC-ANT-E-24DP

◆ ***RoHS Compliant***

802.11b/g Modules and Kits

AirborneDirect™: Bridge Modules come with either Ethernet, Serial (RS232/422/485) or RS232 connections, to a wireless LAN interface utilizing an 802.11b radio. Used to easily integrate wireless into a design. Includes antenna. **Airborne™ Embedded Modules:** Versions include LAN mode module, module with Integrated Ethernet Bridge software or a module with Integrated Serial Bridge software. U.FL Connector on board.

Description	Connection Type	Digi-Key Part No.	Price Each 1	10	25	DPAC/Quatech Part No.
AirborneDirect™ Modules / Kits						
Wireless Device Server 802.11b with Antenna	Ethernet	590-1000-ND	192.16	168.14	162.14	ABDB-ET-DP101
Wireless Device Server 802.11b with Antenna	Serial (RS232/422/485)	590-1001-ND	202.80	177.45	171.12	ABDB-SE-DP101
Wireless Device Server 802.11b with Antenna	Serial (RS232/422/485)	590-1024-ND◆	202.80	177.45	171.12	ABDB-SE-DP101-G
Wireless Device Server 802.11b with Antenna	RS232	590-1002-ND	192.16	168.14	162.14	ABDB-SE-DP107
Wireless Device Server 802.11b with Antenna	RS232	590-1025-ND◆	192.16	168.14	162.14	ABDB-SE-DP107-G
Wireless Device Server 802.11b/g with Antenna	RS232/422/485	590-1018-ND◆	206.60	177.45	171.12	ABDG-SE-DP101-G
Wireless Device Server 802.11b/g with Antenna	RS232/422/482	590-1038-ND◆	278.40	243.60	230.55	ABDG-SE-DP103
Wireless Device Server 802.11b/g with Antenna	RS232	590-1019-ND◆	195.76	168.14	162.14	ABDG-SE-DP104-G
Wireless Device Server 802.11b/g with Antenna	RS232	590-1039-ND◆	263.68	230.72	218.36	ABDG-SE-DP106
Wireless Device Server 802.11b/g Serial Powered with Antenna	RS232	590-1020-ND◆	195.76	168.14	162.14	ABDG-SE-DP107-G
Wireless Ethernet Bridge 802.11b/g	Ethernet	590-1021-ND◆	195.76	168.14	162.14	ABDG-ET-DP101-G
Airborne™ Embedded Modules / Kits — RoHS Compliant						
802-11b Module with U.FL Antenna Port	Serial	590-1032-ND	109.06	93.02	89.81	WLNB-AN-DP101-G
802-11b Module Integrated Ethernet Bridge Software with U.FL Antenna Port	Ethernet	590-1034-ND	109.06	93.02	89.81	WLNB-ET-DP101-G
802.11b/g Module Integrated Serial Bridge Software with U.FL Antenna Port	RS232	590-1015-ND	110.98	93.02	89.81	WLNG-AN-DP101-G
802.11b/g Module Integrated Serial Bridge Software with U.FL Antenna Port	Serial (RS232/422/485)	590-1016-ND	110.98	93.02	89.81	WLNG-SE-DP101-G
802.11b/g Module Integrated Ethernet Bridge Software with U.FL Antenna Port	Ethernet	590-1017-ND	110.98	93.02	89.81	WLNG-ET-DP101-G
Development Kit for Airborne Embedded 802.11b/g Module with Wireless Access Point	Ethernet	590-1037-ND	255.83	219.73	207.96	ABDG-ET-DP103
Development Kit for Airborne Embedded 802.11b/g Module with Wireless Access Point	Ethernet	590-1036-ND	279.00	—	—	ABEG-ET-DP103-G
Development Kit for Airborne Embedded 802.11b/g Module with Wireless Access Point	Serial (RS232/422/485)	590-1040-ND	486.53	437.88	413.55	WLNG-EK-DP001
Development Kit for Airborne Embedded 802.11b/g Module without Wireless Access Point	Serial	590-1022-ND	328.95	—	—	WLNG-EK-DP003-G
Antennas and Accessories						
Adapter Cable, RPSMA (Jack) to U.FL (Plug) 100mm	—	590-1005-ND	14.85	11.22	10.56	ACH0-CA-DP004
Adapter Cable, RPSMA (Jack) to U.FL (Plug) 100mm	—	590-1014-ND◆	11.70	9.00	8.48	ACH0-CA-DP004-G
Antenna, 2dBi, Rubber Duck, RP-SMA	—	590-1006-ND	10.69	8.08	7.60	ACH2-AT-DP002
Antenna, 2dBi, Rubber Duck, RP-SMA	—	590-1028-ND◆	10.69	8.08	7.60	ACH2-AT-DP002-G
Antenna, 5dBi, Rubber Duck, RP-SMA	—	590-1007-ND	12.38	9.52	8.97	ACH2-AT-DP003
Antenna, 5dBi, Rubber Duck, RP-SMA	—	590-1029-ND◆	12.38	9.52	8.97	ACH2-AT-DP003-G
Antenna, 5dBi, Rubber Duck, U.FL (Flying Lead)	—	590-1030-ND◆	13.39	10.12	9.52	ACH2-AT-DP004-G
Antenna, 5dBi, Magnetic Mount, Indoor/Outdoor	—	590-1031-ND◆	52.50	42.00	39.38	ACH2-AT-DP011-G

◆ ***RoHS Compliant***

ember ZigBee™ ICs and Development Kits

The **EM250** is a single-chip solution that integrates a 2.4GHz, ZigBee/802.15.4-compliant transceiver with a 16-bit XAP2b microprocessor. It contains integrated Flash and RAM memory and peripherals of use to designers of ZigBee-based applications. The **EM260** integrates a 2.4GHz, IEEE 802.15.4-compliant transceiver with a 16-bit XAP2b processor to run EmberZNet, the Ember ZigBee-compliant network stack. The XAP2b microprocessor is a power-optimized core integrated in the EM260. It contains integrated Flash and RAM memory along with an optimized peripheral set to enhance the operation of the network stack. The **EM2420** is a true single-chip 2.4GHz IEEE 802.15.4 compliant RF transceiver. It includes a digital direct sequence spread spectrum baseband modem and an effective datarate of 250 kbps.

Features: • RF transceiver with baseband modem, MAC support and networking stack • DSSS baseband modem • RFD and FFD operation • Low current (RX: 19.7mA, TX: 17.4mA) • 2.1~3.6V with integrated voltage regulator, 1.6~2.0V with external voltage regulator.

The **JumpStart™ Developer Kit** contains both hardware and software, enabling customers to quickly launch development projects for embedding low-power low-data rate wireless application into their products.

The **Full Development Kit** includes hardware, networking stack and development and debugging software for building embedded applications. The software package includes a service-aware API that simplifies code development and lets you focus on your embedded applications.

	Digi-Key	Price Each			Ember
Description	**Part No.**	**1**	**10**	**100**	**Part No.**
IEEE 802.15.4/ZigBee ICs — RoHS Compliant					
ZigBee Single Chip IC, 48-QFN	636-1000-1-ND§	10.00	9.00	7.98	EM250-RTR
ZigBee Single Chip IC, 48-QFN	636-1000-2-ND‡	14820.00/2,000			EM250-RTR
ZigBee Single Chip IC, 40-QFN	636-1003-ND	9.82	7.86	6.63	EM260-RTY
ZigBee Single Chip IC, 40-QFN	636-1007-1-ND§	9.40	7.52	6.35	EM260-RTR
ZigBee Single Chip IC, 40-QFN	636-1007-2-ND‡	20398.00/3,500			EM260-RTR
ZigBee Single Chip IC, 48-QLP	636-1006-1-ND§	8.00	6.40	5.40	EM2420-RTR
ZigBee Single Chip IC, 48-QLP	636-1006-2-ND‡	19840.00/4,000			EM2420-RT
Development Kits					
JumpStart Kit for EM250	636-1001-ND	2500.00	—	—	EM250-JMP-R
JumpStart Kit for EM260	636-1004-ND	2500.00	—	—	EM260-USART-JMP-R
Full Development Kit for EM250	636-1002-ND	10000.00	—	—	EM250-DEV
Full Development Kit for EM260	636-1005-ND	10000.00	—	—	EM260-DEV
RF Evaluation Kit for EM250	636-1008-ND◆	500.00	—	—	EM250-EK
Tool — RoHS Compliant					
USB FLASH Programming for EM250/EM260	636-1009-ND	72.00	—	—	EM2XX-USB-PROG-R

§ Cut Tape ‡ Tape and Reel ◆ ***RoHS Compliant***

OBID i-scan® FEIG ELECTRONICS Readers

ID CPR.02.VP/AB-ATS

ID CPR.02.VP/AB-ATS is not only able to identify ISO 14443, but also type ISO 15693 transponders. It is a multi-tag reader, which means that it is able to identify and to write on transponders of different manufacturers and ISO-types. The reader supports the safety functions of various known 13.56MHz transponders, such as MIFARE or my-d, due to a SAM-card interface for Security Access Modules. So the reader is even suitable for problematic applications such as ticketing and accounting systems. The use of an ISO-host record guarantees a problem free creation of user software as well as the module's unlimited compatibility with all readers of the OBID i-scan family.

Specifications:

• Dimensions (W x H x D): 114mm x 83mm x 48mm • Housing: Plastic ASA, desk top reader • Protection Class: IP 22 • Operating Frequency: 13.56MHz • Power Supply: 12-24VDC • Power Consumption: Maximum 2.6W • Processable Transponders: ISO 14443-A (e.g. MIFARE, MIFARE Ultra Light, my-proximity) ISO 14443-B; ISO 15693 (e.g. I-CODE SLI, my-d vicinity, STM LRI512, Tag-it HF-I) • Processable Safety Features: Integrated SAM-card interface for SAM (e.g. my-d vicinity and my-d proximity) • Antenna: Integrated • Reading Distance: 7cm with ISO 15693-tags, 6cm with ISO 14443-A-tags. Reading distances depend on the used labels; here made statements relate to an inlet size of 76x45mm. In addition, tuning and quality of the antennas have to be taken into consideration. • Interfaces: 1x RS232 with 2.5m connecting cable • Signal Generator: 1 LED (bi-color), 1 Buzzer • Temperature Range: Operating: -20°C ~ 60°C; Storage: -40°C ~ 85°C • EEPROM: 1kB (10,000 writing cycles) • FLASH: Software-Update over interface possible

629-1001-ND (FEIG ELECTRONICS # 0913.017.00)........ **$831.13**

ID ISC.MR101-A, ID ISC.MR101-USB and ID ISC.MR101.M-A

Multi-tag mid range reader for identification of Smart Labels in the fields of application retail, rental services and industry. The mid-range reader ID ISC.MR101-A/-USB/-M-A works with Smart Labels which are based on transponders with an operating frequency of 13.56MHz. Depending on the antenna used, the reader has a maximum reading distance of up to 40cm.

Specifications:

• Anticollision Function • OBID i-scan SMP (Standard Multi-tag Protocol) • Multi-tag Reader (I-CODE, Tag-it, ISO 15693) • Housing: Plastic • Color: Light Grey • Dimensions (L x W x H): 145mm x 85mm x 31mm • Protection Class: IP 30 • Weight: 170g • Power Supply: Variant A: 12-24VDC +/-15% via external power supply; Variant USB: 12V via external power supply • Power Consumption: Approximately 6VA • Operating Frequency: 13.56MHz • Transmitting Power: Approximately 0.8 up to 1W • Modulation Factor: 10% and 100% (via software adjustable) • Antenna connection: 1 x SMA female plug (50Ω) • Reading Distance: Maximum 40cm • Interfaces: RS232/RS485 (switchable) or USB • Signal Generator: 1 LED (multicolored red/green) • Processable Transponders: I-CODE, Tag-it and ISO 15693 • Temperature Range: Operating: -25°C ~ 60°C; Storage: -25°C ~ 85°C • FLASH: 64kByte (software may be updated via interface)

629-1015-ND (FEIG ELECTRONICS # 1638.000.01) RS-232/485........ **$571.49**
629-1016-ND (FEIG ELECTRONICS # 1638.001.02) USB........ **$611.86**
629-1019-ND (FEIG ELECTRONICS # 1638.005.01) Module, RS232/485........ **$540.43**

ID ISC.LRMU1000-A-FCC, ID ISC.LRU1000-A0-FCC and ID ISC.LRU1000-A-FCC

The UHF-Long Range Reader Module ID ISC.LRMU1000 identifies UHF transponders within a frequency range from 865 to 928MHz and so can be used in Europe and in North America.

Licensed according to EN and FCC, in each area maximum allowed transmitting power can be realized. Due to the high maximum reading range of up to 5m with a single antenna and up to 10m with a multi-antenna application, the reader is suitable especially for Asset Management and logistical applications especially there, simultaneous identification of several transponders and very high reading ranges are necessary! Connection of up to 4 external antennas enables realization of multi-antenna-applications (integrated Multiplexer), two different interfaces (RS232, RS485) guarantee high flexibility to connect the reader with your individual backup-system.

Specifications:

• Dimensions (W x L x H): 170mm x 320mm x 48mm • Power Supply: 12-24VDC • Power Consumption: Maximum 29VA • Operating Frequency: 869, 525MHz; 865, 6-867, 6MHz (200kHz steps); 902-928MHz (500kHz steps) • Transmitting Power: 100mW-4W (100mW steps); 4W EIRP; 2W ERP (0.5W ERP) • Modulation: 20%-40% and 100% (scalable via Software) • Receiver: Data rates 40-320kbps • Antenna Connectors: 4 x SMA connector (50Ω) • Outputs: 1 Optocoupler: 24VDC/30mA, 1 Relay (1x NO/NC): 24VDC/2A • Inputs: 1 Optocoupler: Maximum 24VDC/20mA • Interfaces: RS232 and RS485 • Temperature Range: Operating: -25°C ~ 55°C (-25°C ~ 70°C); Storage: -25°C ~ 85°C

629-1049-ND (FEIG ELECTRONICS # 2481.001.11) FCC Module........ **$3636.74**

• Housing: Plastic with heatsink • Dimensions (W x L x H): 180mm x 320mm x 110mm • Protection Class: IP 54

629-1045-ND (FEIG ELECTRONICS # 2241.002.12) Housed........ **$4305.56**
629-1046-ND (FEIG ELECTRONICS # 2241.002.11) Housed, Supports EPC Class 0/0+ Protocols........ **$4044.18**

ID ISC.M02-B

The ID ISC.M02-B works with Smart Labels with an operating frequency of 13.56MHz. The Read/Write PCB has a maximum reading distance of up to 10cm by using the integrated antenna. By using the external antennas, distances of 7cm (antenna size 30x40mm) respectfully 14cm (antenna size 100x100mm) will be reached. The reader is above all suitable for supply chain applications in the fields of retail, industry, logistics etc. It is even suitable for problematic applications such as ticketing and accounting systems due to an attachable security access module. Apart from this, the data/clock interface enables the reader to be used in access control systems. **Specifications:** • Dimensions (L x W x H): 50mm x 50mm x 15mm • Connector Plug: 10-pole pin terminal (spacing = 2.54mm) • Operating Frequency: 13.56MHz • Power Supply: 5VDC +/-5% • RF Transmitting Power: 90mW +/-2dB • Power Consumption: Maximum 1W • Processable Transponders: ISO 15693 transponders such as I-CODE SLI, my-d vicinity, STM LRI512, Tag-it HF-I etc. • Processable Safety Features: Refitting of SAM (Security Access Module) is possible for my-d vicinity • Antenna: Integrated, 48 x 48mm, external 50Ω antennas optional • Reading Distance: 10cm with integrated antenna up to 14cm with external antennas • Interfaces: 1x RS232-TTL, 1x Data/clock interface, (magnet card emulation and Wiegand emulation) • Signal Generator: 2 LED • Temperature Range: Operating: -20°C ~ 70°C; Storage: -40°C ~ 85°C • EEPROM: 1kB (10,000 writing cycles) • FLASH: 64kB (Software update over interface possible)

629-1032-ND (FEIG ELECTRONICS # 1834.000.00)........ **$217.41**

ID ISC.PRH101-B, ID ISC.PRH101-USB and ID ISC.PRH101-A

As every device of the OBID i-scan HF product family, the hand-held reader ID ISC.PRH101-B identifies transponders with an operating frequency of 13.56MHz. The reader has a maximum reading/writing distance of up to 18cm and is suitable especially for mobile use in connection with a PDA or laptop.

PDA or laptop can be used as a mobile host e.g. as data collector.

The reader's own power supply allows RF transmitting power, that enables identification of transponders which are very close together. **Specifications:** • Bluetooth interface (class I-B) • Anti-collision function • OBID i-scan ISO Host Mode • 2 Operation Modes: Scan-Mode/Polling-Mode • Housing: Plastic ABS (closed) • Color: RAL 9002/RAL 7044 • Dimensions (L x W x H): 230mm x 100mm x 80mm • Weight: 320g (without batteries) • Protection Class: IP 30 • Power Consumption: Maximum 2.5W • Operating Frequency: 13.56MHz • Transmitting Power 0.5W +/-2dB • Antenna: Integrated • Interface: Bluetooth (class I)/USB/RS232 • Supported Transponders: ISO 15693 tags, ISO 18000-3 tags, optional: further tag types • Signal Generator: Optical: 1 LED (red/green/blue); Acoustic: Buzzer • Temperature Range: Operating: 0°C ~ 50°C; Storage: -20°C ~ 70°C • Relative Humidity: 95% (non-condensing)

629-1010-ND (FEIG ELECTRONICS # 1524.000.01) RS-232........ **$512.47**
629-1011-ND (FEIG ELECTRONICS # 1524.001.01) USB........ **$549.74**
629-1013-ND (FEIG ELECTRONICS # 1524.004.00) Bluetooth........ **$838.59**

ID ISC.PR101-A, ID ISC.PR101-USB and ID ISC.PR101.M-A

The proximity reader ID ISC.PR101-A/-USB/-M-A works with Smart Labels which are based on transponders with an operating frequency of 13.56MHz. The reader has an integrated antenna with a maximum reading distance of up to 18cm. Due to its compact dimensions, the reader is suitable for desk-applications. The reader's anticollision function facilitates simultaneous identification of several objects even when these are wrapped. **Specifications:** • Housing: Plastic • Color: RAL 9018, light grey • Dimensions (L x W x H): 145mm x 85mm x 31mm • Protection Class: IP 30 • Weight: 200g • Power Supply: Variant-A (RS232/RS485): 12-24VDC +/-15% via external power supply; Variant-USB: via USB interface • Power Consumption: Maximum 5VA • Operating Frequency: 13.56MHz • Transmitting Power 0.5W • Modulation Factor: 10% and 100% (via software adjustable) • Antenna: Integrated • Reading Distance: Maximum 18cm • Interfaces: RS232/RS485 (switchable) or USB • Signal Generator: 1 LED multicolored, red/green • Processable Transponders: ISO-tags 15693 (e.g. I-CODE, Tag-it, my-d, STM etc.) • Temperature Range: Operating: -25°C ~ 60°C; Storage: -25°C ~ 70°C • FLASH: 64kByte (software may be updated via interface)

629-1017-ND (FEIG ELECTRONICS # 1638.002.01) RS-232........ **$559.06**
629-1018-ND (FEIG ELECTRONICS # 1638.003.02) USB........ **$599.44**
629-1020-ND (FEIG ELECTRONICS # 1638.007.01) Module........ **$528.00**

ID CPR.M02-VP/AB-B and ID CPR.M02-VP/AB-CA

The multi tag reader with anti-collision function, which means that it is able to identify transponders of different manufacturers and ISO types at the same time. The reader supports the safety functions of various known 13.56MHz transponders, such as MIFARE or my-d, due to an attachable Security Access Module which makes it even suitable for problematic applications such as ticketing and accounting systems. Apart from this, the data/clock interface enables the reader to be used in access control systems. **Specifications:** • Dimensions (W x H x D): 50mm x 50mm x 14mm • Connector Plug: 10-pole pin terminal (spacing = 2.54mm) • Operating Frequency: 13.56MHz • Power Supply: 5VDC +/-5% • RF-Transmitting Power: 250mW +/-2dB • Power Consumption: Maximum 1.5W • Processable Transponders: ISO 14443-A (e.g. MIFARE, MIFARE Ultra Light, my-proximity) ISO 14443-B • ISO 15693 (e.g. I-CODE SLI, my-d vicinity, STM LRI512, Tag-it HF-I) • Processable Security Features: Refitting of SAM (Security Access Module) is possible for e.g. my-d vicinity and my-d proximity • Antenna: Integrated, 48mm x 48mm • Reading Distance: 10cm with ISO 15693-tags, 4cm with ISO 14443-tags • Interfaces: 1x RS232-TTL, 1x Data/clock-interface (Magnet card emulation and Wiegand emulation) • Signal Generator: 2 LED • Temperature Range: Operating: -20°C ~ 70°C; Storage: -40°C ~ 85°C • EEPROM: 1kB (10,000 writing cycles) • FLASH: 64kB (Software-Update over interface possible)

629-1034-ND (FEIG ELECTRONICS # 1916.000.01) On-Board Antenna........ **$211.50**
629-1057-ND (FEIG ELECTRONICS # 2873.000.00) Module........ **$223.93**

(Continued)

OBID i-scan FEIG ELECTRONICS Readers *(Cont.)*

ID ISC.MR200-A and ID ISC.MR200-E

The reader ID ISC.MR200-A/-E is offered in an aluminium housing with the protection class IP 54; for this reason it is protected against dust, dirt and syringe water and can be used therefore in the industrial background. Transmitting power of up to 1.7 watt enables reading ranges of up to 70cm. The reader has several I/O's as well as a so-called antenna diagnosis function that indicates whether an antenna is not adjusted as required.

Specifications:
• Housing: Aluminium • Color: RAL 7040 • Dimensions (L x W x H): 200mm x 110mm x 60mm • Protection Class: IP 54 • Power Supply: 12-24VDC • Power Consumption: Maximum 12VA • Operating Frequency: 13.56MHz • Transmitting Power: 1.7W • Antenna Connection: SMA plug (50Ω) • Outputs: 2 Optocouplers: 24VDC/30mA; 1 Relay; 24VDC/2A • Inputs: 2 Optocouplers: Maximum 24VDC/20mA • Interfaces: Version -A: RS232 and RS485 (adjustable); Version -E: Ethernet 10Base-T or 100Base-TX • Operation Modes: FEIG ISO Host Protocol • Processable Transponders: ISO 15693, EPC • Address Control for Interface: Software (up to 254 addresses, only RS485) • Signal Generator: 5 LED • Temperature Range: Operating: -20°C ~ 60°C; Storage: -25°C ~ 85°C

629-1041-ND	(FEIG ELECTRONICS # 2060.000.00) A Version, RS-232/485	**$2147.43**
629-1043-ND	(FEIG ELECTRONICS # 2221.000.01) E Version, Ethernet	**$2545.73**

ID ISC.MR200-WLAN

ID ISC.MR200-WLAN is offered in a solid plastic housing with the protection class IP 54; for this reason it is protected against dust, dirt and splash water and can be used therefore out of doors. Transmitting power of up to 1.75 watt enables reading ranges of up to 70cm. The reader has several I/O's as well as so-called antenna diagnosis function that indicates whether an antenna is not adjusted as required. The reader has a RS232 and WLAN interface.

Specifications:
• Housing: ABS plastic with lockable hinged cover • Color: Light grey RAL 7035 • Dimensions (L x W x H): 20 x 110 x 60mm • Weight: 450g • Protection Class: IP 54 • Power Supply: 12 ~ 24VDC ±5% • Power Consumption: Maximum 13VA • Operating Frequency: 13.56MHz • Transmitting Power: 1W/1.75W • Antenna Connection: SMA socket (50Ω) • Outputs: 2 Optocoupler - 24VDC/30mA (galvanically isolated), and 1 Relay - 24VDC/2A • Inputs: 2 optocouplers - Maximum 24VDC/20mA • Interfaces: RS232 and WLAN (802.11b) • Operation Modes: ISO Host Protocol, Buffered Read Mode (BRM), Scan Mode • Supported transponders: ISO 15693 and ISO 18000-3, EPC (optional) • FLASH: Software Update via interface possible • Signal Generator: 5 LED • Temperature Range: Operation: -20°C ~ 60°C, Storage: -25°C ~ 85°C • Vibration: EN60068-2-6 10Hz ~ 150Hz; 0.075mm/1g • Shock: EN60068-2-27 Acceleration: 30g • RF Approval: Europe: EN300 330, USA: FCC 47 CFR Part 15 • EMC: EN 301 489 • Safety: Low Voltage: EN 60950, Human Exposure: EN 50364

629-1054-ND	(FEIG ELECTRONICS # 2633.000.00) MR Wireless Reader	**$2613.61**

ID ISC.LRM2000-A, ID ISC.LRM2000-B and ID ISC.LR2000-A

The ID ISC.LR2000 Long Range Reader and the ID ISC.LRM2000 Long Range Reader Unit are the top of the line Long Range Reader versions of the OBID i-scan HF product line.

The ID ISC.LR2000 and ID ISC.LRM2000 are the most powerful reader in the OBID i-scan HF product line. Both devices have identical RF performance. The ID ISC.LRM2000 differs from the ID ISC.LR2000 in terms of housing, interface options and functionality for the host connectivity of the device.

Features:
• Highly sensitivity receiver increased the tag detection range so that the most transponders can be read over the entire power up, field strength area. • RF front end accommodates arbitrary cable lengths between the reader and the antenna without adversely affecting the read range of the antenna. • RF front end has its own power control to protect the read range from external noise sources. • The reader delivers a DC voltage on the antenna output to source DC powered devices connected to the antenna cable, such as the OBID i-scan Dynamic Antenna Tuning board (ID ISC.ANT.DAT-A). • RF source of the reader meets different national radio rules and can achieve the 60dbµA/m ETSI limits.

The reader is able to directly control antenna multiplexing functions. The RF section of the reader is controlled by a dedicated DSP based, RF controller. A second microcontroller, the Application and Connectivity Controller (ACC), uses an ARM processor running a µcLinux operating system. The reader has four hardware interface ports: Ethernet, RS232, RS485, and a Compact Flash 2 compatible port to support a WLAN Card. All ports are under control of the ACC. In combination, the powerful and flexible RF transmitter and receiver and intelligent digital controller form the basis of an agile, multi protocol reader that can be updated as future protocols and features are created.

Specifications for LRM2000:
• Dimensions (W x H x D): 120mm x 160mm x 45mm • Weight: 0.6kg • Power Supply: 24VDC ±15% • Power Consumption: Maximum 32VA • Operating Frequency: 13.56MHz • Transmitting Power: 4 to 12W • Antenna Connection: 1 x SMA connector (50Ω) • DC Power on RF Line: 8VDC Maximum 150mA • RF Diagnostics: Internal SWR Meter internal overheating control • Outputs: 1 Optocoupler: 24VDC/30mA; 1 Differential Output: Reader synchronisation; 1 Relay (1x NO/NC): 24VDC/2A • Inputs: 1 Optocoupler: Maximum 24VDC/20mA; 1 Differential Input: Reader synchronisation • Interface: RS-232 and RS-485 • Supported Transponder: I-Code1, ISO15693, 18000-3-A, (e.g. I-Code SLI, my-d, STM LRI512/64, Tag-it HFI) • Indicators: 5 LED for diagnosis of the operation status • Temperature Range: Operating: -20°C ~ 55°C; Storage: -25°C ~ 85°C

Specifications for LR2000:
• Casing: Plastic • Dimensions (W x H x D): 180mm x 320mm x 110mm • Weight: 1.9kg • Protective System: IP 54 • Color: Black • Power Supply: 24VDC ±15% • Power Consumption: Maximum 32VA • Operating Frequency: 13.56MHz • Transmitting Power: 4 to 12W • Antenna Connection: 1x SMA connector (50Ω) • DC Power on RF Line: 8VDC Maximum 150mA • RF Diagnostics: Internal SWR Meter internal overheating control • Outputs: 1 Optocoupler: 24VDC/30mA; 1 Differential Output: Reader synchronisation; 1 Relay (1x NO/NC): 24VDC/2A • Inputs: 1 Optocoupler: Maximum 24VDC/20mA; 1 Differential Input: Reader synchronisation • Interface: RS-232 and RS-485, Ethernet (TCP/IP), Compact Flash-II (WLAN) • Supported Transponder: I-Code1, ISO15693, 18000-3-A, e.g. I-Code SLI, my-d, STM LRI512/64, Tag-it HFI • Indicators: 6 LED for diagnosis of the operation status • Temperature Range: Operating: -20°C ~ 55°C; Storage: -25°C ~ 85°C

629-1003-ND	(FEIG ELECTRONICS # 1260.021.00) Module, No Housing	**$4130.85**
629-1004-ND	(FEIG ELECTRONICS # 1260.022.00) Module, No Housing, RS-232/485 Only	**$3758.14**
629-1002-ND	(FEIG ELECTRONICS # 1260.020.00) In Housing	**$4270.61**

Antennas

ID ISC.ANT300/300

ID ISC.ANT300/300 is a single-loop antenna with pre-set adjustment electronics and has been optimized as a transmitting and reception antenna for reader ID ISC.LR2000. At a calibrated transmitting power of 4W a reading range of up to 55cm is possible. Furthermore, it can be used with other readers having a transmitter frequency of 13.56MHz and an output impedance of 50Ω.

The antenna is suitable for both object and personal identification. The preferred direction of a smart label is parallel to the antenna's surface. The right position to obtain a maximum range would be above the centre of the antenna's surface.

Specifications:
• Housing: Plastic ABS • Dimensions (W x H x L): 322mm x 337mm x 40mm ±1mm • Weight: Approximately 0.7kg • Protection Class: IP 65 • Color: Black • Maximum Transmitting Power: 8W • Operating Frequency: 13.56MHz • Working Range: Maximum 55cm • Antenna Connection: 1 x SMA Plug (50Ω) • Antenna Connection Cable: RG58, 50Ω, Approximately length of 3.6m • Temperature Range: Operating: -25°C ~ 55°C; Storage: -25°C ~ 60°C

629-1007-ND	(FEIG ELECTRONICS # 1451.000.00)	**$728.96**

ID ISC.ANT800/600-DA

As a single loop antenna with tuning circuitry with a transmitting power of maximum 4W (Europe), a maximum reading range of 80cm is possible. Gate configurations of 2, 4 or 6 antennas ID ISC.ANT800/600-DA enable even 200cm, using a parallel transponder orientation. The antenna consists of the electrical antenna conductor, housing and the tuning circuitry ID ISC.DAT (Tuner) and is factory tuned on a wood base to an impedance of 50Ω. After installing in changed ambient conditions, the antenna can be tuned using the corresponding commands.

Specifications:
• Housing: Plastic ABS • Dimensions (W x H x D): 852mm x 620mm x 40mm +/-1mm • Color: Black • Weight Approximately 2.5kg • Protection Class: IP 65 • Safety: USA, UL 1950 • Maximum Transmitting Power: 8W • Maximum Permitted Transmitting Power: EU (EN 300 330): 4W; USA (FCC Part 15): 0.25W • Operating Frequency: 13.56MHz • Reading Range: 80cm • Antenna Connection: SMA plug (50Ω) • Antenna Connection Cable: RG 58, 50Ω, 3.6m • Temperature Range: Operating: -25°C ~ 55°C; Storage: -25°C ~ 60°C

629-1008-ND	(FEIG ELECTRONICS # 1451.008.00)	**$2450.56**

ID ISC.ANT.U250/250-FCC

The UHF antenna ID ISC.ANT.U250/250-FCC are circular polarized antenna for operating frequencies in the UHF range 902-928MHz (FCC antenna). Transponders can be identified in two different orientations (E plane / H plane).

Specifications:
• Housing: Plastic • Dimensions (W x H x D): 260mm x 260mm x 56mm • Weight: Approximately 1050g • Color: White (similar RAL9018) • Protection Class: IP 54 • Operating Frequency: FCC antenna, 902-928MHz • Gain: FCC antenna, 8.7dBic @ 915MHz • 3dB Beam Width: E plain: 65°; H plain: 65° • Polarization: Circular • VSWR: <1.5:1 • Antenna Connection: SMA socket (50Ω) • Temperature Range: Operating: -25°C ~ 55°C; Storage: -25°C ~ 85°C

629-1009-ND	(FEIG ELECTRONICS # 1451.009.02)	**$391.34**

ID ISC.ANT340/240

OBID i-scan mid range antennas are operated in combination with mid range reader ID ISC.MR100-x. Depending on the application, pad or industrial antennas may be used. The elegant Pad Antenna ID ISC.ANT340/240 is perfectly suitable for desk applications with a reading range of up to 30cm. File and document tracking as well as the registration of rental goods during distribution and return are only two out of many possible applications. For applications in rough industrial environments with a required range of up to 40cm, we recommend antenna type ID ISC.ANT300/300.

Specifications:
• Housing: Plastic ABS • Color: Grey-white • Dimensions (W x H x D): 337mm x 237mm x 8.3mm • Weight: 530g • Protection Class: IP 40 • Admissible Transmitting Power: 1W • Reading Distance: Up to 30cm • Antenna Connection: SMA - plug (50Ω) • Antenna Cable: RG174 (2.0m) • Operating Frequency: 13.56MHz • Temperature Range: Operating: 0°C ~ 55°C; Storage: -25°C ~ 85°C

629-1025-ND	(FEIG ELECTRONICS # 1663.000.00)	**$276.26**

ID ISC.ANT200/200

ID ISC.ANTH200/200 is a hand held single loop antenna and has been optimized as a sending and receiver antenna for the i-scan midrange readers with external antenna connection. Using the transmitting power of the reader of 2W (Maximum transmission power of the antenna) and a label (45 x 76 mm^2 in size; label sensitivity 75 mA/m) a read range of 30-40cm is possible with the label oriented parallel to the antenna. Operation with other readers having a transmission frequency of 13.56 MHz and 50Ω output impedance is also possible. The antenna is factory tuned to an impedance of 50Ω. Operation in metallic surroundings is also possible. The antenna can be used for either product of person detection.

Specifications:
• Housing: ABS/UL 94 HB •Dimensions (W x H x D): 460 x 200 x 25 mm^3 • Weight: Approximately 0.35kg • Protection Class: IP 20 • Temperature Range: Operation: 0 °C ~ 55 °C Storage: -25°C ~ 85°C • Relative Air Humidity: 95% (non-condensing) • Operating Frequency: 13.56MHz • Connecting Cable: RG58; 50Ω; 3.6m • Connection: SMA-Plug (50Ω) • Maximum Transmitting Power: 2W • Generic Emissions Standard (EMC): EN 61000-6-3:2001 • Electromagnetic Compatibility (EMC): EN 6100-6-2:2001

629-1056-ND	(FEIG ELECTRONICS # 2717.000.00)	**$574.56**

ID ISC.ANT100/100-A

ID ISC.ANT100/100-A • External 50Ω antenna for ID ISC.M02 • Dimensions: 100mm x 100mm • Cable: Coax cable approximately 50cm in length

629-1039-ND	(FEIG ELECTRONICS # 1968.000.00)	**$106.53**

ID ISC.ANT40/30-A

ID ISC.ANT40/30-A • External 50Ω antenna for ID ISC.M02 • Dimensions: 40mm x 30mm • Cable: Coax cable approximately 50cm in length

629-1038-ND	(FEIG ELECTRONICS # 1967.000.00)	**$73.92**

OBID i-scan® FEIG ELECTRONICS Accessories

Battery Charger

2560.00.00 is a specific for PRH101-B readers only. This unit is suitable to charge the four AA NiCd or NiMH needed to operate the PRH-1001-B. Capacity range of 800mAh to 7200mAh.

Features:

• Mains indicator • Charging indicator • Trickle charge indicator • Wrong polarity protection • Discharge indicator • Dimensions (L x W x H) 118mm x 62mm x 48mm • CE, CSA, GS and SAA

629-1052-ND	(FEIG ELECTRONICS # 2650.000.00)	**$119.58**

ID ISC.DAT-A

With the help of these tuning boards, you can realize your own individual antenna arrays, combined with our i-scan Long Range readers. The dynamic antenna tuner ID ISC.DAT-A is designed for automatic calibrating and tuning of RFID antennas with an operating frequency of 13.56MHz. The parameters for setting the antenna are measured on the board under operating conditions. The antenna tuner is also able to disconnect the antenna circuit through an electronic switch up to a certain power. The ID ISC.DAT is driven over the HF line. The antenna tuner thus functions as a so-called function unit. Measured parameters or the calibration status can be sent to the host over the HF line. Dynamic Antenna Tuning Board.

Specifications:

• Dimensions (W x H x D): 118mm x 90mm x 19mm • Weight: Approximately 100g • Supply Voltage: 7 ~ 12VDC • Current Consumption: Maximum 150mA (DC) • Operating Frequency: 13.56MHz • Maximum Transmitting Power: 10W • Antenna Switch: Electronic Switch • Antenna Connection: Cable Terminals d = 2 ~ 9mm • RF Connection: SMA Male (50Ω) • Triggering: Reader, Communication via RF-Connection • Outputs: 3 x Open Collector: 5VDC/maximum 15mA • Signal Indicator: 1 x «RUN"-LED • Interface: RS232 TTL (for Firmware Update) • Carrier Frequency: 13.56MHz • Impedance: 50Ω • Tuning Range Inductance: 0.7 ~ 2.5μH • Quality: 10 ~ 50 • Temperature Range: Operating: -25°C ~ 75°C; Storage: -40°C ~ 80°C

629-1006-ND	(FEIG ELECTRONICS # 1269.005.01)	**$1045.63**

ID ISC.ANT.PS-B

ID ISC.ANT.PS-B is a 3dB power splitter with galvanic isolation between the input and the two outputs. At the operating frequency of 13.56MHz the impedance on all in and outputs is calibrated to 50Ω. Both outputs are internally wired in parallel. The galvanic isolation can be enabled by means of two jumpers. The device is designed for installation indoors or outdoors. The connection cable from the Reader to the ID ISC.ANT.PS-B is 3.6m in length. This extends the overall cable length from Reader to antenna to a total of 7.20m.

Specifications:

• Housing: Plastic Polycarbonate (light white) • Dimensions (W x H x D): 130mm x 94mm x 57mm ±2mm • Weight: Approximately 275g • Enclosure Rating: IP 65 • Cable Fittings: 4 x Cable Fitting M16 x 1.5 • Voltage Supply: 12 ~ 24VDC (optional) • Power Consumption: Maximum 4W • Operating Frequency: 13.56MHz • RF Connections: 1 x Input and 2 x Output: SMA Jack (50Ω) (Maximum tightening torque: 0.45Nm) • SWR: Maximum 1.2:1 (50Ω) • Input Loss: Maximum 0.6dB • Temperature Range: Operating: -25°C ~ 55°C; Storage: -40°C ~ 85°C • Flame Proof: UL1950, HB without Cable

629-1005-ND	(FEIG ELECTRONICS # 1269.003.01)	**$450.36**

ID ISC.ANT.MUX

The 8 times Multiplexer ID ISC.ANT.MUX facilitates switching between RFID antennas with an operating frequency of 13.56MHz. With one Multiplexer several single antennas and gate solutions (existing of base and complementary antennas) can be operated with only one reader. Any of the eight Multiplexers outputs can be assigned to both inputs by jumper adjustment. The Multiplexer is controlled either via a digital input or the antenna cable connected with the reader.

Specifications:

• Dimensions (L x W x H): 182mm x 110mm x 90mm • Weight: Approximately 550g • Protection Class: IP 65 • Grommet: 12x screwed cable gland M16 x 1.5 • Power Supply: 12-24VDC • Power Consumption: Maximum 4W • Operating Frequency: 13.56MHz • Absorbability per Channel: Maximum 0.5dB • Maximum Allowed Switching Capacity: 10W • RF Connections: 2x Input: SMA Socket (50Ω); 8x Output: SMA Socket (50Ω) • RF Switch: Switching rate: Electronic switch, <1ms • Triggering: Reader: via RF input 1; External pulse generator: digital input • Digital Inputs: 1 Opto coupler input, maximum 24VDC/20mA • Display: 1x LED per channel, 3x LED (Run/HF/communication) • Temperature Range: Operating: -25°C ~ 65°C; Storage: -40°C ~ 80°C

629-1040-ND	(FEIG ELECTRONICS # 1977.000.01)	**$1852.46**

ISC.LR.I/O-A

Specifications: • Dimensions: (W x H x D) 40mm x 100mm x 10mm • Weight: Approximately 40g • Relays: 3x normally open (contact load capacity: 24VAC/DC 2A) • Inputs: 3 optocoupler (Maximum 24VDC / 20mA) • Temperature Range: Operating: -25°C ~ 60°C; Storage: -40°C ~ 85°C • Relative Humidity: 95% (non-condensing) Items: • 1 – ID ISC.LR.I/O-A Extension Board • 2 – Hex standoffs M3 x 15 metal • 1 – Hex standoffs M3 x 15 plastic • 1 – Recessed raised fillister head screw M3 x 6 • 1 – Cable 3-conductor (1:1) • 1 – Cable 2-conductor (2 to 5 conductor) • 1 – Ribbon cable 20-conductor • 10 – Jumpers

629-1055-ND	(FEIG ELECTRONICS # 2673.000.01)	**$125.77**

ID CAB.A-A

The ID CAB.A-A is a short adapter cable that converts a 10-pin molex style connector through a ribbon cable to a 9-pin Sub D female connector. It is used with ISC.M02 and CPR.M02 reader modules

629-1047-ND	(FEIG ELECTRONICS # 2259.000.00)	**$20.35**

ID CAB.NET.24V-B-US

This ID CAB.NET.24V-B-US is an AC power cord that is used with the ID NET.24V-B power supply unit. It uses a U.S. style, AC male plug on one end and a computer style female connector to the power supply unit on the other.

629-1051-ND	(FEIG ELECTRONICS # 2560.000.00)	**$9.62**

ID CAB.RS-A

The ID CAB.RS-A is a communication cable for RS-232/RS-485 interfaces. It is used with ID ISC.MR101-A, ID ISC.PR101-A, ID ISC.MR101.M-A and ID ISC.PR101.M-A reader products. The cable uses a 9-pin Sub D male on one end and a 9-pin Sub D female with a DC jack spliced on the other end.

629-1028-ND	(FEIG ELECTRONICS # 1690.000.00)	**$27.19**

ID ISC.ANT.C2-A and ID ISC.ANT.C6-A

ID ISC.ANT.C2-A and ID ISC.ANT.C6-A is a coaxial cable with male SMA style plug connectors on both ends. The cable is used with ID ISC.ANT.U250/250 UHF antennas.

629-1023-ND	(FEIG ELECTRONICS # 1654.002.00) 2 Meter Cable	**$76.09**
629-1024-ND	(FEIG ELECTRONICS # 1654.003.00) 6 Meter Cable	**$92.87**

ID ISC.ANT.C-A

ID ISC.ANT.C-A is a 1/4 Lambda @ 13.56MHz, 3.6 meter, RG58 C/U, coaxial cable with male SMA style plug connectors on both ends. The cable is used with ID ISC.DAT-A Dynamic Antenna Tuning Boards.

629-1042-ND	(FEIG ELECTRONICS # 2096.000.00)	**$61.81**

ID ISC.ANT.EC

ID ISC.ANT.EC is a 1/2 Lambda, 7.2 meter, RG58 C/U, coaxial cable with one male SMA style plug connector on one end and one SMA female in-line splice connector on the other. The cable is used as an antenna extension cable when used with ID ISC.DAT-A Dynamic Antenna Tuning Boards, ID ISC.ANT300/300 antenna, ID ISC.ANT800/600-DA antenna, and ID ISC.ANT1400/760-A/B/C gate antennas.

629-1021-ND	(FEIG ELECTRONICS # 1654.000.00)	**$65.06**

ID ISC.MS.MR/PR-A

ID ISC.MS.MR/PR-A is a mounting set that attach to the back of our mid-range (MR) or proximity range (PR) readers.

629-1029-ND	(FEIG ELECTRONICS # 1691.000.01)	**$35.25**

ID NET.24V-B

ID NET.24V-B is a 110/220VAC to 24 volt DC power adapter. It is provided with two, screw terminal connectors; one style for the LR200 the other connector is compatible with the LR2000, LRU1000, and LRU2000 products. It requires the use of an AC power cord, (ID CAB.NET.24V-B-US).

629-1050-ND	(FEIG ELECTRONICS # 2557.000.00)	**$132.16**

FlexiPanel

EasyBee™ Transceivers

EasyBee is an IEEE 802.15.4 compliant RF transceiver. It enables designers to easily add ZigBee / IEEE 802.15.4 wireless capability to their products without the need for RF or antenna design expertise. The module contains all RF circuitry, including integral antenna and controller in a simple-to-use, plug-in or surface mount module. A 4-wire SPI port interfaces to a baseband microcontroller. The PHY (Physical) layer includes an impedance matched balun and integral antenna. The MAC (Media Access Control) layer includes CRC-16 generation, clear channel assessment, signal energy detection, security, encryption and authentication. It is a fully capable device and a ZigBee networking layer is not required for point-to-point communication. This module is an application-ready solution for fast-to-market ZigBee and IEEE 802.15.4 communications, providing the development engineer unlimited choice of host controller and stack firmware provider **Features**: • Free space range approximately 120m • FCC/CE compliant • Integral antenna • Output power 1mW / 0dBm • Consumes just 20mA (Rx), 18mA (Tx) • 2.1V ~ 3.6V supply

658-1000-5-ND	(FlexiPanel # EASYBEE-DIL)	**$38.00**
658-1001-5-ND	(FlexiPanel # EASYBEE-S0)	**$28.73**

EasyBee™ Evaluation Board

One of the easiest ways to evaluate and develop products using the EasyBee IEEE 802.15.4 radio module is with the EasyBee Evaluation Board. The EasyBee Evaluation Board is electrically identical to Microchip Technology's 2.4GHz daughter card and is a direct plug-in equivalent. The EasyBee module itself is production-ready and provides a fast route to market for IEEE 802.15.4 and ZigBee products. CE/FCC qualified **Features**: • Integral quarter wave RF stage with matched balun • 12-pin 0.1" pitch connection to PICDEM-Z motherboard

658-1011-5-ND	(FlexiPanel # EVAL-EASYBEE)	**$36.48**

Pixie™ Transceivers

Pixie provides a complete ZigBee solution for OEMs, integrating IEEE 802.15.4 2.4GHz PHY/MAC layers with Microchip Technology's NWK/APL/ZDO layers. It provides a path for extremely rapid migration from Microchip's PICDEM Z ZigBee development environment to market-ready product. It is capable of full function device (FFD) operation and is suitable for router and coordinator nodes. The lower cost Pixie Lite version is used for reduced function devices, e.g. endpoints, with 2 fewer I/O lines and being 3mm more compact. **Features**: • Free space range approximately 120m • FCC/CE/IC compliant • MAC address allocation • Signature G antenna, low "hand effect" design • Output power 1mW / 0dBm • Consumes less than 25mA when active, 2μA in sleep mode • 15 general I/O lines, 10-bit A/D, serial UART, 4 Interrupts, counter input • Master SPI • 2.1V ~ 3.6V supply

658-1002-5-ND	(FlexiPanel # PIXIE-DIL-PXSC)	**$62.29**
658-1003-5-ND	(FlexiPanel # PIXIE-DIL-PXSR)	**$62.29**
658-1004-5-ND	(FlexiPanel # PIXIE-SO-PXSC)	**$47.42**
658-1005-5-ND	(FlexiPanel # PIXIE-SO-PXSR)	**$47.42**
658-1006-5-ND	(FlexiPanel # PIXLITE-DIL-PLFE)	**$60.77**
658-1007-5-ND	(FlexiPanel # PIXLITE-DIL-PLSE)	**$60.77**
658-1008-5-ND	(FlexiPanel # PIXLITE-SO-PLFE)	**$43.65**
658-1009-5-ND	(FlexiPanel # PIXLITE-SO-PLSE)	**$43.65**

Pixie™ Evaluation Kit

The Pixie Evaluation Kit is designed for research and development with FlexiPanel Ltd's Pixie ZigBee modules. **Features**: • 4 switch inputs • 4 pushbutton inputs • 8 LED outputs • 1 trimmer input • ICD2 programming socket • Solder pads for custom development

658-1012-ND	(FlexiPanel # EVAL-PIXIE)	**$456.00**

FlexiPanel

UZBee™ Transceiver

UZBee is an EasyBee ZigBee/IEEE 802.15.4 radio with USB interface, housed in a handy adapter enclosure.
Features: • 2.4GHz IEEE 802.15.4 RF module • PIC18LF4550 USB microcontroller • FCC/CE compliant • Signature G antenna, free-space range 120m, compact, low 'hand-effect' design • Pushbutton • Status LED • 56mm x 20mm x 9mm

658-1010-5-ND	(FlexiPanel # UZBEE)	**$60.77**

LinkMatik 2.0™ Transceivers

LinkMatik 2.0 is a serial/PCM audio to Bluetooth data link. It can be controlled from a host controller using simple commands. It can also operate without a host controller for point-to-point serial connections. Auto-Slave and Auto-Master modes allow LinkMatik 2.0 to operate a slave, master or wedded pair. It is shipped in Auto-Slave mode. The module can be interfaced to many standard Bluetooth devices, e.g. Laptop computers, PDA's, Mobile phones etc. PCM (Pulse Code Modulation) audio connections provide an audio interface when used with a suitable audio codec.
Features: • Auto-Slave and Auto-Master configurations • Connects with up to 4 slaves • PCM audio profile (command mode only) • Bluetooth 2.0 certified • FCC/CE certified • Low power: -25mA transmitting, 370μA sleep • Authentication and encryption • Device discovery • Class I Bluetooth radio, 100m range • 3.3V ~ 5V supply (DIL), or 3.3V supply (SO)

658-1013-5-ND	(FlexiPanel # LM20-DIL)	**$97.28**
658-1014-5-ND	(FlexiPanel # LM20-SO)	**$60.77**

Toothpick™

Toothpick is a PIC microcontroller and BlueMatik radio combination, preloaded with Toothpick Services firmware providing FlexiPanel user interface server, wireless field programming and Toothpick Slave for optional external host control.
Features: • FlexiPanel server – creates user interfaces on computers, PDAs, cell phones with no development needed on remote devices • Wireless field programming lets developers distribute firmware upgrades electronically • System services including: Bluetooth communications, interrupt and memory management, sleep-safe real time clock with daylight savings time/day-of-week calculator

658-1015-5-ND	(FlexiPanel # TP20-DIL)	**$145.92**
658-1016-5-ND	(FlexiPanel # TP20-SO)	**$118.56**
658-1017-5-ND	(FlexiPanel # TP20L-SO)	**$91.20**

Bluetooth® Evaluation Board

The Bluetooth Evaluation Board is designed to evaluate the following products from FlexiPanel LTD: • Toothpick • LinkMatik • BlueMatik
This Evaluation board can be used during development as a reliable and tested device.

Features: • Sockets for all modules • Power regulator, switches and LEDs • Jumper switches for board configuration • RS232 serial port and TTL to RS232 converter • Toothpick ICD2 programming socket • 24C256 I2C memory chip • This board can accept any (reasonable low ripple) unregulated 5V-12V supply, 2.5mm Center Positive • One module can be evaluated at a time • Can be used with Flexipanel Device Tutorials

658-1018-ND	(FlexiPanel # EVAL-BT)	**$150.78**

TeaClippers™
MCU Programmers

The TeaClippers are portable, target-powered firmware programmers for Microchip's PIC Microcontrollers or Basic Stamps. Limited Firmware uploads can be enabled for firmware resale. Encrypted versions are available to protect content and device verification prior to and during programming. The Crypto version supports any microcontroller that can self-write to its own memory. Unique serial numbers and license codes can be written to each PIC Programmed. The TeaClipper USB Adapter is required to load the TeaClipper's with Firmware.

Dim in mm

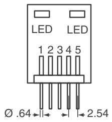

Description	Digi-Key Part No.	Price Each	Flexipanel Part No.
TeaClipper PIC			
High or Low Voltage Programming Clip	658-1019-5-ND	44.80	TEACL-PIC-HV
Low Voltage Programming Clip	658-1020-5-ND	32.00	TEACL-PIC-LV
TeaClipper Stamp			
Programming Clip for Basic Stamp Modules	658-1021-5-ND	32.00	TEACL-STAMP
TeaClipper Crypto			
Encrypted Programming Clip for Content Protection	658-1022-5-ND	32.00	TEACL-CRYPTO
Evaluation Kits / Accessories			
Debug Adapter for the ICD2	658-1023-5-ND	32.00	TEACL-PIC-DB
Debug Adapter for the STAMP	658-1024-5-ND	32.00	TEACL-STAMP-DB
TeaClipper Evaluation Board	658-1025-5-ND	128.00	TEACL-EVAL
USB Adapter for TeaClipper	658-1026-5-ND	48.00	TEACL-USB

FOTOFAB

RF Shields

Fotofab provides precision metal shields using a chemical etching process. Shields come in several standard sizes, and are designed to be formed by hand without the need for tooling. Prototyping kits are available in a standard size and small size kit, depending on your size requirements. Shielding kits provide different height options on each shield, from 0.25, 0.5 or 0.75 inches. Dimpled Shields (DMP) are available with a removable lid to access the components inside for testing/proto work, without having to desolder the shield. **Features**: • Shields come in several standard sizes • CDA 26000 1/2 hard copper alloy material provides outstanding electrical characteristics • Dimensions are outside (formed) dimensions

Shield Height (Inches)	Dimensions (L x W) (Inches)	Digi-Key Part No.	Price Each 1	25	100	Fotofab Part No.
0.25	0.5 x 0.5	655-1000-ND	1.63	.91	.80	0.5 X 0.5 X 0.25
0.25	0.5 x 1.0	655-1001-ND	2.24	1.33	1.18	0.5 X 1.0 X 0.25
0.25	0.75 x 1.125	655-1002-ND	2.76	1.70	1.52	0.75 X 1.125 X 0.25
0.25	0.75 x 1.5	655-1003-ND	3.43	2.31	2.04	0.75 X 1.50 X 0.25
0.25	1.0 x 1.0	655-1004-ND	3.20	1.98	1.75	1.0 X 1.0 X 0.25
0.5	1.5 x 2.25	655-1005-ND	9.97	6.86	6.23	1.5 X 2.25 X 0.50
0.25	1.5 x 3.0	655-1006-ND	8.90	6.06	5.34	1.5 X 3.0 X 0.25
0.5	2.0 x 3.0	655-1007-ND	16.45	11.96	10.84	2.0 X 3.0 X 0.50
0.25	0.75 x 0.75	655-1008-ND	2.16	1.28	1.14	0.75 X 0.75 X 0.25
0.25	1.0 x 1.5	655-1009-ND	4.34	2.70	2.44	1.0 X 1.5 X .25
0.25	1.0 x 2.0	655-1010-ND	5.23	3.28	2.99	1.0 X 2.0 X .25

Shield Height (Inches)	Dimensions (L x W) (Inches)	Digi-Key Part No.	Price Each 1	25	100	Fotofab Part No.
0.25	1.5 x 1.5	655-1011-ND	5.23	3.28	2.99	1.5 X 1.5 X .25
0.5	1.0 x 1.5	655-1012-ND	6.07	4.05	3.63	1.0 X 1.5 X .5
0.25	1.0 x 1.5	655-1015-ND‡	16.67	12.13	10.99	DMP-1.0 X 1.5 X 0.25
0.25	1.0 x 1.0	655-1016-ND‡	15.18	11.04	10.01	DMP-1.0 X 1.0 X 0.25
0.25	0.5 x 0.5	655-1017-ND‡	11.58	7.87	7.24	DMP-0.5 X 0.5 X 0.25
0.25	0.5 x 1.0	655-1018-ND‡	7.57	5.49	4.88	DMP-0.5 X 1.0 X 0.25
Shielding Kits						
Variable Height Prototype Kit – 29 Large Shields		655-1013-ND	277.10/1			RF PROTOTYPE KIT- LARGE
Variable Height Prototype Kit – 46 Small Shields		655-1014-ND	277.10/1			RF PROTOTYPE KIT- SMALL

‡ Removable Top Shield

FREE2MOVE

Bluetooth® Modules

F2M01C1 – These Class 1 (up to +14dBm transmit power) serial port plug modules allow for rapid connection/configuration in serial cable replacement applications. Configuration is simple via command interface. Implement Serial Port Profile and Generic Access Profile. **F2M03C1 –** This tiny class 1 module (33 x 14mm) allows for wireless UART functionality, and includes a serial interface, 8 Digital and 2 Analog I/O. There are 4 low power modes available. Has Piconet and Scatternet capability. **F2M03C2 –** This class 2 (up to +4dBm transmit power) device features small size (24 x 14mm), 4 low power modes, Piconet and Scatternet capability, Serial Interface, and 8 Digital and 2 Analog I/O. **F2M03AC2 –** These class 2 devices are small (24 x 13mm) but include a complete audio codec and Analog and Digital (PCM) interface for up to 3 simultaneous voice channels. Available with either Serial Port or Headset Profile **F2M03GLA –** These Class 1 (modules can be put into lower power states to comply with Class 2, Class 3 power limitations) Come with either Serial Port Profile (SPP) or HCI only versions for use with a host application processor (such as a PC). These modules provide Bluetooth 2.0 +EDR capability for increased data rates. **FSM03GX(A) –** These Class 1 modules come with either SPP or HCI. GX modules provide antenna connector. GXA modules have on-board ceramic antenna. Provides Bluetooth 2.0+EDR capability. **F2M03MLA –** These modules provide a complete fully qualified Bluetooth headset plug-in modules which includes 16-bit Stereo Codec and Bluetooth Stack complete with A2DP, handsfree, headset, SPP, and AVRCP profiles.

Max Data Rate (Kbps)	Bluetooth Device Class	Connection	Supply Voltage (V)	Bluetooth Profile	Antenna	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape and Reel Qty	Pricing	Free2Move Part No.
115.2	1	RS-232	4.0 ~ 5.0	Serial Port	Ceramic on Board	647-1000-ND‡Δ	124.10	102.20	96.73	—	—	—	F2M01C1-100
115.2	1	RS-232	4.0 ~ 5.0	Serial Port	Ceramic on Board	647-1001-ND‡	119.37	96.60	93.15	—	—	—	F2M01C1-102
723.2	1	Serial UART, USB	2.7 ~ 3.3	Serial Port	External	647-1006-1-ND	59.40	49.01	41.58	647-1006-2-ND	500	20047.50	F2M03C1-101
723.2	2	Serial UART, USB	2.7 ~ 3.5	Serial Port	External	647-1008-1-ND	53.00	43.73	37.10	647-1008-2-ND	500	16562.50	F2M03C2-101
723.2	2	Serial UART, USB	2.3 ~ 3.5	Serial Port	Ceramic on Board	647-1002-1-ND	55.20	45.54	38.64	647-1002-2-ND	100	3726.00	F2M03AC2-101
723.2	2	Serial UART, USB	2.3 ~ 3.5	Headset	Ceramic on Board	647-1003-1-ND	55.20	45.54	38.64	647-1003-2-ND	100	3726.00	F2M03AC2-103
3000	1	Serial UART, USB	3.1 ~ 3.6	Serial Port	Ceramic on Board	647-1009-1-ND	36.54	28.11	26.71	647-1009-2-ND	500	11947.00	F2M03GLA-S01
3000	1	Serial UART, USB	3.1 ~ 3.6	HCI Only	Ceramic on Board	647-1010-1-ND	38.57	29.44	28.42	647-1010-2-ND	500	12687.50	F2M03GLA-S04
3000	1	Serial UART, USB	3.1 ~ 3.6	Serial Port	U.FL Connector	647-1011-1-ND	45.54	34.76	33.56	647-1011-2-ND	500	14981.50	F2M03GX-S01
3000	1	USB	3.1 ~ 3.6	HCI Only	U.FL Connector	647-1012-1-ND	45.54	34.76	33.56	647-1012-2-ND	500	14981.50	F2M03GX-S04
3000	1	Serial UART, USB	3.1 ~ 3.6	Serial Port	Ceramic on Board	647-1013-1-ND	45.54	34.76	33.56	647-1013-2-ND	500	14981.50	F2M03GXA-S01
3000	1	USB	3.1 ~ 3.6	HCI Only	Ceramic on Board	647-1014-1-ND	45.54	34.76	33.56	647-1014-2-ND	500	14981.50	F2M03GXA-S04
2000	1	Serial Interface	3.1 ~ 3.6	Headset	Ceramic on Board	647-1015-1-ND	52.32	41.01	39.60	647-1015-2-ND	500	17675.00	F2M03MLA-S03
Development Kits and OEM Boards													
Single Module Eval. Kit for F2M03C1, Includes Cable and Software, 1 Module on Dev. Board						647-1007-ND	265.60	—	—	—	—	—	F2M03C1-KIT-1
Single Module Eval. Kit for F2M03AC2, Includes Cable and Software, 1 Module on Dev. Board						647-1005-ND	265.60	—	—	—	—	—	F2M03AC2-KIT-1
Single Module Eval. Kit for G Module, No OEM module						647-1020-ND	240.00	—	—	—	—	—	F2M03G-KIT-1
Single Module Eval. Kit for M Module, No OEM module						647-1024-ND	300.24	—	—	—	—	—	F2M03M-KIT-1
OEM Board with F2M03GLA-S01 module						647-1016-ND	62.46	49.45	48.58	—	—	—	F2M02GLA-S01
OEM Board with F2M03GX-S01 module						647-1017-ND	84.53	67.62	66.42	—	—	—	F2M02GX-S01
OEM Board with F2M03GXA-S01 module						647-1018-ND	84.53	67.62	66.42	—	—	—	F2M02GXA-S01
OEM Board with F2M03MLA-S03 module						647-1019-ND	73.24	58.59	57.55	—	—	—	F2M02MLA-S03
OEM Board with F2M03GLA-S01 module for Development Kit F2M03G-KIT-1						647-1021-ND	67.86	53.73	52.78	—	—	—	F2M02GLA-S01-K
OEM Board with F2M03GX-S01 module for Development Kit F2M03G-KIT-1						647-1022-ND	96.53	78.12	75.33	—	—	—	F2M02GX-S01-K
OEM Board with F2M03GXA-S01 module for Development Kit F2M03G-KIT-1						647-1023-ND	81.90	65.52	64.35	—	—	—	F2M02GXA-S01-K
OEM Board with F2M03MLA-S03 module for Development Kit F2M03M-KIT-1						647-1025-ND	73.24	58.59	57.55	—	—	—	F2M02MLA-S03-K

‡ Bulk Pricing Δ Includes CD Software

freescale semiconductor

RF/ZigBee™ Transceivers

Designed for Low-Power, Low data rate applications, Freescale's offering of RF/ZigBee Transceivers covers any need that might arise in the development of your design. Freescale has solutions for both proprietary and ZigBee networks. Single-chip transceivers eliminate the need for a lot of external components. System in a package solutions integrates an 8-bit micro to further lower the cost of implementation.

Protocol	Maximum Data Rate (kbps)	Supply Voltage (V)	Supply current @ 1% Duty Cycle (Typical mA)	Frequency (GHz)	Tx/Rx Switch	Package Type	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
2.4GHz Transceivers											
Figure 8 Wireless ZigBee	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13193FC-ND◆	7.00	4.25	3.86	MC13193FC
Figure 8 Wireless ZigBee	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13193FCR2CT-ND†◆	7.00	5.60	5.04	MC13193FCR2
Figure 8 Wireless ZigBee	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13193FCR2TR-ND‡◆	8590.00/2,500			MC13193FCR2
ZigBee/ IEEE® 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13192FC-ND◆	4.48	3.15	2.87	MC13192FC
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13192FCR2CT-ND†◆	4.35	3.06	2.79	MC13192FCR2
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13192FCR2TR-ND‡◆	6265.00/2,500			MC13192FCR2
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13191FC-ND◆	3.65	2.57	2.35	MC13191FC
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13191FCR2CT-ND†◆	3.65	2.22	2.12	MC13191FCR2
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13191FCR2TR-ND‡◆	5285.00/2,500			MC13191FCR2
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13190FCCT-ND	5.05	3.07	2.93	MC13190FCR2
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	71-LGA	MC13213-ND◆	6.22	5.15	4.70	MC13213
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	71-LGA	MC13213R2TR-ND◆‡	8438.00/2000			MC13213R2
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	71-LGA	MC13212-ND◆	5.67	4.70	3.85	MC13212
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	71-LGA	MC13212R2TR-ND◆‡	7690.00/2000			MC13212R2
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	71-LGA	MC13211-ND◆	5.20	4.31	3.53	MC13211
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	71-LGA	MC13211R2TR-ND◆‡	7056.00/2000			MC13211R2
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	32-QFN	MC13203FC-ND◆	7.40	4.49	4.08	MC13203FC
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	32-QFN	MC13203FCR2TR-ND◆‡	9080.00/2500			MC13203FCR2
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	32-QFN	MC13202FC-ND◆	4.65	3.27	2.99	MC13202FC
ZigBee/ IEEE 802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	32-QFN	MC13202FCR2TR-ND◆‡	6695.00/2500			MC13202FCR2
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	32-QFN	MC13201FC-ND◆	3.98	2.80	2.55	MC13201FC
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	Yes	32-QFN	MC13201FCR2TR-ND◆‡	5725.00/2500			MC13201FCR2
Development Tools											
Development Kit for MC1321x							1321XDSK-ND	306.47	—	—	1321XDSK
Development Kit for MC1321x, with USB Multilink							1321XDSK-BDM-ND	408.78	—	—	1321XDSK-BDM
Evaluation Kit for MC1321x							1321XEVK-ND	1929.67	—	—	1321XEVK
Network Starter Kit for MC1321x							1321XNSK-ND	584.48	—	—	1321XNSK
Network Starter Kit for MC1321x, with USB Multilink							1321XNSK-BDM-ND	643.04	—	—	1321XNSK-BDM

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

RF High Power LDMOS Transistors

Frequency Band (MHz)	P_{OUT} Typical (W)	V_{DD} (V)	Gain dB/MHz	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 500
1930 ~ 1990	12	28	14/1990	TO-272	MRF5S19060NBR1CT-ND	45.41	37.83	35.59	MRF5S19060NBR1TR-ND	20397.60
1930 ~ 1990	12	28	14/1990	TO-270	MRF5S19060NR1CT-ND◆	45.41	37.83	35.59	MRF5S19060NR1TR-ND◆	20397.60
880	20	26	19.5/880	TO-272	MRF5S9100NBR1CT-ND◆	32.04	26.69	25.11	MRF5S9100NBR1TR-ND◆	14392.80
880	20	26	19.5/880	TO-270	MRF5S9100NR1CT-ND◆	42.72	35.58	33.48	MRF5S9100NR1TR-ND◆	19188.00
869 ~ 960	100	26	17.5/960	TO-272	MRF5S9101NBR1CT-ND◆	42.72	35.58	33.48	MRF5S9101NBR1TR-ND◆	19188.00
869 ~ 960	100	26	17.5/960	TO-270	MRF5S9101NR1CT-ND◆	42.72	35.58	33.48	MRF5S9101NR1TR-ND◆	19188.00

◆ ***RoHS Compliant***

RF GaAS PHEMT Transistors

RoHS COMPLIANT

Frequency Maximum (GHz)	P_{OUT} Typical (W)	V_{DD} (V)	Gain dB/MHz	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	Digi-Key Part No.	Tape & Reel Pricing 50
3.5	3	12	9/3550	1.5-PLD	MRFG35003NR5CT-ND	13.81	10.44	—	—
5.8	9	12	10/3550	NI-360HF	MRFG35010NR5CT-ND	37.14	28.23	MRFG35010NR5TR-ND	1372.00
5	1.5	6	10/3550	1.5-PLD	MRFG35002N6R5CT-ND	9.79	6.68	MRFG35002N6R5TR-ND	333.75
5.8	10	12	10/3550	1.5-PLD	MRFG35010ANR5CT-ND	37.14	28.23	MRFG35010ANR5TR-ND	1691.20

Honeywell

RF Switches, Attenuators and Evaluation Boards

RoHS COMPLIANT

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 2,500	Honeywell Part No.
31dB, DC-2.5GHz, 5-Bit Serial Digital Attenuator	16-VQFN	342-1046-1-ND	17.00	7.00	6.00	342-1046-2-ND	3400.00/M	HRF-AT4521-AU
31.5dB, DC-4GHz, 6-Bit Parallel Digital Attenuator	24-VQFN	342-1048-1-ND	17.00	7.00	6.00	342-1048-2-ND	3400.00/M	HRF-AT4610-TR
31.5dB, DC-4GHz, 6-Bit Serial Digital Attenuator	16-VQFN	342-1050-1-ND	17.00	7.00	6.00	342-1050-2-ND	3400.00/M	HRF-AT4611-TR
SP6T Absorptive RF Switch	24-VQFN	342-1044-1-ND	17.00	7.00	6.00	342-1044-2-ND	3400.00/M	HRF-SW1030-TR
Evaluation Board for HRF-AT4610		342-1049-ND	99.00	—	—	—	—	HRF-AT4610-E
Evaluation Board for HRF-AT4611		342-1051-ND	99.00	—	—	—	—	HRF-AT4611-E
Evaluation Board for HRF-SW1030		342-1045-ND	99.00	—	—	—	—	HRF-SW1030-E

Infineon Diodes and Transistors

Silicon RF Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Infineon Part No.
SOT-23	NPN	15	20	45	100	BFR92PE6327INCT-ND◆	3.70	24.29	132.48	BFR92PE6327INTR-ND◆	3,000	99.36/M	BFR 92P E6327
SOT-343	NPN	2.3	7.5	80	180	BFP620E7764INCT-ND◆	10.20	87.03	570.19	BFP620E7764INTR-ND◆	3,000	405.14/M	BFP 620 E7764
		2.5	10	40	110	BFP520INCT-ND	6.73	57.69	384.60	BFP520INTR-ND	3,000	269.22/M	BFP520E6327
		4.0	13	30	250	BFP740E6327INCT-ND◆	13.26	113.13	741.19	BFP740E6327INTR-ND◆	3,000	526.64/M	BFP 740 E6327
		4.5	15	12	90	BFP405INCT-ND	4.70	37.85	240.87	BFP405INTR-ND	3,000	183.60/M	BFP405E6327
		4.5	15	35	95	BFP420INCT-ND◆	4.80	38.64	245.91	BFP420INTR-ND◆	3,000	187.35/M	BFP420E6327
		4.5	15	50	120	BFP460E6327INCT-ND◆	4.64	31.54	201.48	BFP460E6327INTR-ND◆	3,000	140.16/M	BFP 460 E6327
		4.5	15	100	80	BFP450INCT-ND	8.27	70.89	472.60	BFP450INTR-ND	3,000	330.82/M	BFP450E6327
TSFP-4	NPN	2.5	10	40	110	BFP520FE6327INCT-ND◆	6.26	53.64	357.60	BFP520FE6327INTR-ND◆	3,000	250.32/M	BFP 520F E6327
		4.0	13	30	250	BFP740FE6327INCT-ND◆	14.59	124.47	815.48	BFP740FE6327INTR-ND◆	3,000	579.42/M	BFP 740F E6327
		4.0	13	50	180	BFP640FE6327INCT-ND◆	11.67	99.56	652.27	BFP640FE6327INTR-ND◆	3.000	463.46/M	BFP640FE6327
		4.5	10	80	110	BFP540FE6327INCT-ND◆	7.49	64.20	428.00	—	—	—	BFP 540F E6327
		4.5	14	80	185	BFP540FESDE6327INCT-ND◆ ***NEW!***	7.24	62.07	413.80	BFP540FESDE6327INTR-ND◆ ***NEW!***	3,000	289.66/M	BFP540FESDE6327
TSLP-3	NPN	4.0	13	10	250	BFR705L3RHE6327INCT-ND◆	19.35	164.16	1026.03	BFR705L3RHE6327INTR-ND◆	15,000	732.88/M	BFR 705L3RH E6327
		4.0	13	30	250	BFR740L3RHE6327INCT-ND◆	20.41	173.18	1082.38	BFR740L3RHE6327INTR-ND◆	15,000	773.13/M	BFR 740L3RH E6327
		4.0	13	90	250	BFR750L3RHE6327INCT-ND◆	21.49	182.34	1139.60	BFR750L3RHE6327INTR-ND◆	15,000	814.00/M	BFR 750L3RH E6327

◆ ***RoHS Compliant***

Silicon RF Switching Diodes

RoHS COMPLIANT

Package	Reverse Voltage Vr	Forward Current If (mA)	Charge Carrier Lifetime Trr (ns)	Diode Capacitance (Ct) (pF)	Foward Resistance (rf) Ω	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape and Reel Pricing 3,000	Infineon Part No.
SC-79	150	100	1,550	0.23	12.5	BAR64-02VE6327INCT-ND	3.71	24.33	132.72	BAR64-02VE6327INTR-ND	99.54/M	BAR 64-02V E6327
SOT-23	100	140	1,000	0.25	2600	BAR14-1E6327INCT-ND	5.03	40.49	257.67	BAR14-1E6327INTR-ND	184.05/M	BAR 14-1 E6327
	100	140	1,000	0.25	2600	BAR15-1E6327INCT-ND	5.03	40.49	257.67	BAR15-1E6327INTR-ND	184.05/M	BAR 15-1 E6327
SOD-323	35	100	120	0.92	0.45	BA592E6327INCT-ND	2.77	16.32	77.00	BA592E6327INTR-ND	61.60/M	BA 592 E6327
	50	100	75	0.21	1.2	BAR63-03WE6327INCT-ND	4.12	27.97	178.71	BAR63-03WE6327INTR-ND	124.32/M	BAR 63-03W E6327
SOT-343	30	100	80	0.6	0.7	BAR81WE6327INCT-ND	6.45	55.32	368.80	BAR81WE6327INTR-ND	258.16/M	BAR 81W E6327
TSSLP-2	50	100	500	0.25	3.5	BAR95-02LSE6327INCT-ND	3.75	30.16	191.94	—	—	BAR 95-02LS E6327

Silicon Variable Capacitance Diodes

RoHS COMPLIANT

Package	Reverse Voltage Vr	Forward Current If (mA)	Capacitance Ratio Ct/Ct (pF)	Diode Capacitance (Ct) (pF)	Foward Resistance (rs) Ω	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape and Reel Pricing 3,000	Infineon Part No.
SCD-80	10	20	3.7	17.5	0.35	BBY57-02WE6327INCT-ND	4.59	31.18	199.18	BBY57-02WE6327INTR-ND	138.56/M	BBY 57-02W E6327
	30	20	12.7	6.6	1.5	BB857E7902INCT-ND	3.89	31.32	199.29	BB857E7902INTR-ND	142.35/M	BB 857 E7902
SOD-323	30	20	6.7	15	0.58	BB833INCT-ND	4.48	30.42	194.35	BB833INTR-ND	135.20/M	BB833E6327
	30	20	6.7	15	0.58	BB535E7904INCT-ND	4.38	20.44	78.84	BB535E7904INTR-ND	68.62/M	BB 535 E7904
	28	20	6.9	43	0.35	BB439E6327INCT-ND	5.81	49.80	332.00	BB439E6327INTR-ND	232.40/M	BB 439 E6327
	30	20	8.6	8.8	1.0	BB831E7904INCT-ND	4.48	30.42	194.35	BB831E7904INTR-ND	135.20/M	BB 831 E7904
	30	20	10.4	29.75	0.65	BB639E7904INCT-ND	3.58	21.09	99.50	BB639E7904INTR-ND	79.60/M	BB 639 E7904
	30	20	16.6	54.5	1.15	BB640E6327INCT-ND	3.82	25.08	136.80	BB640E6327INTR-ND	102.60/M	BB 640 E6327

Cascade RF Amplifiers

RoHS COMPLIANT

Package	Supply Voltage	Device Current (I_D) (mA)	Insertion Power Gain (S_{21})2	Noise Figure (F_{50})Ω	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	T & R Pricing 3,000	Infineon Part No.
SOT-143	2.5 ~ 5.0	20	17dB	1.3dB	BGA416E6327INCT-ND	9.47	80.77	529.15	—	—	BGA 416 E6327
SOT-343	2.0 ~ 5.0	25	27dB	1.9dB	BGA427E6327INCT-ND	8.73	74.50	488.11	BGA427E6327INTR-ND	346.82/M	BGA 427 E6327

Tranceivers/Transmitters

RoHS COMPLIANT

Transceivers: The wireless control transceiver series is a family of low power consumption single chip FSK/ASK transceivers for half duplex low data rate communication. The IC offers a very high level of integration and needs only a few external components.
Features: • FSK and ASK modulation and demodulation • I^{2}C Controller interface • On-chip low pass channel select filter and data filter with tunable bandwidth • Onboard data filter • Data comparator • Data rate detection circuit

Transmitters: The Infineon wireless control transmitter series offers a high level of integration and needs only a few external components. The device contains a fully integrated PLL synthesizer and a high efficiency power amplifier to drive a loop antenna. A special circuit design and a unique power amplifier design are used to save current consumption and therefore to save battery life.
Features: • Temperature range -40°C ~ 125°C • FSK and ASK modulation

Package	Frequency Range (MHz)	Supply Voltage	Supply Current Rx	Tx	Sensitivity dBm	RF Transit Power	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Infineon Part No.
							Transceivers							
38-TSSOP	312 ~ 325	2.1 ~ 5.5	8.8mA	14.1mA	-109	9 dBm	TDA5251INCT-ND	58.19	491.00	3018.71	TDA5251INTR-ND	3,000	2327.68/M	TDA5251
38-TSSOP	433 ~ 435	2.1 ~ 5.5	8.6mA	13.3mA	-109	9 dBm	TDA5255INCT-ND	58.19	491.00	3018.71	TDA5255INTR-ND	3,000	2327.68/M	TDA5255
38-TSSOP	868 ~ 870	2.1 ~ 5.5	8.6mA	11.9mA	-109	9 dBm	TDA5250INCT-ND	58.19	491.00	3018.71	TDA5250INTR-ND	3,000	2327.68/M	TDA5250
							Transmitters							
10-TSSOP	311 ~ 317	2.1 ~ 4.0	—	7mA	—	10 dBm	TDK5111FINCT-ND	20.77	176.26	1101.63	TDK5111FINTR-ND	5,000	802.62/M	TDK5111F
10-TSSOP	433 ~ 435	2.1 ~ 4.0	—	7mA	—	5 dBm	TDK5100FINCT-ND	19.85	168.42	1052.63	TDK5100FINTR-ND	5,000	766.92/M	TDK5100F
16-TSSOP	905 ~ 925	2.1 ~ 4.0	—	7mA	—	5 dBm	TDA5102INCT-ND	22.87	194.04	1212.75	TDA5102INTR-ND	3,000	900.90/M	TDA5102

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Jennic IEEE802.15.4/ZigBee™ Modules, ICs and Kits

Jennic provides single-chip ZigBee and 802.15.4 solutions, along with different Module styles to suit your application. The JN5121 series provides a 16MHz 32-bit RISC MCU with low power consumption, with 96kB RAM for program, data and routing tables and 64kB ROM for program code. The JN5139 Series provides a 16MHz 32-bit RISC MCU with low power consumption, with up to 96kB RAM for program, data and routing tables and 192kB ROM for program code. Development kits are available with expansion kits to add extra Controller boards or sensor boards with Temperature, Light and Humidity sensors.

Package Type	Supply Voltage (V)	Supply Current TX / RX (mA)	ISM Band (GHz)	Data Rate (kbps)	Output Power (dBm)	RAM / ROM (kB)	Sensitivity (dBm)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Jennic Part No.
							JN5121/JN5139 802.15.4 Transceivers							
56-QFN	2.2 ~ 3.6	45 / 50	2.4	250	0	96 / 64	-90	616-1001-1-ND†	12.64	12.10	—	1,000	4657.00	JN5121-000-AI
56-QFN	2.2 ~ 3.6	34 / 34	2.4	250	3	96 / 192	-97	616-1033-1-ND†	12.64	12.10	7.43	1,000	4585.00	JN5139-001-V
							JN5121/JN5139 ZigBee Transceivers							
56-QFN	2.2 ~ 3.6	45 / 50	2.4	250	0	96 / 64	-90	616-1021-2-ND	—	—	—	1,000	4950.00	JN5121-Z01-AIV
56-QFN	2.2 ~ 3.6	34 / 34	2.4	250	3	96 / 192	-97	616-1034-1-ND†	13.51	12.94	7.95	1,000	4902.00	JN5139-Z01-V

Size (mm)	Supply Voltage (V)	Power Consumption Sleep (µA)	Power Consumption Active Tx/Rx (mA)	ISM Band (GHz)	Output Power (dBm)	Receive Sensitivity	Antenna Type	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Jennic Part No.
							ZigBee / 802.15.4 Modules							
							JN5121 802.15.4 Modules							
18x30	2.7 ~ 3.6	14	45/50	2.4	0	-90	Ceramic	616-1007-1-ND†	22.35	21.27	—	500	8615.00	JN5121-000-M00T
18x30	2.7 ~ 3.6	14	45/50	2.4	0	-90	SMA Connector	616-1008-1-ND†	25.54	24.58	—	200	4148.00	JN5121-000-M01V
18x40	2.7 ~ 3.6	14	120/55	2.4	18.5	-93	SMA Connector	616-1009-ND	35.39	30.95	27.07	—	—	JN5121-000-M02V
							JN5121 ZigBee Modules							
18x30	2.7 ~ 3.6	14	45/50	2.4	0	-90	Ceramic	616-1017-1-ND†	22.78	21.56	—	500	8765.00	JN5121-Z01-M00T
18x30	2.7 ~ 3.6	14	45/50	2.4	0	-90	SMA Connector	616-1018-1-ND†	25.97	24.81	—	200	4207.98	JN5121-Z01-M01V
18x30	2.7 ~ 3.6	14	45/50	2.4	0	-90	RP SMA Connector	616-1024-1-ND†	26.78	24.80	—	200	4208.00	JN5121-Z01-M03V
							JN5139 ZigBee Modules							
18x30	2.7 ~ 3.6	2	40/40	2.4	3	-97	Ceramic	616-1029-1-ND†	23.05	21.16	—	500	8598.81	JN5139-Z01-M00R1T
18x30	2.7 ~ 3.6	2	40/40	2.4	3	-97	SMA Connector	616-1030-1-ND†	26.78	24.81	—	200	4199.19	JN5139-Z01-M01R1V
18x30	2.7 ~ 3.6	2.8	37/37	2.4	2.5	-96.5	On Board	616-1035-1-ND†	23.05	21.29	—	500	8615.00	JN5139-001-M00R1T
18x30	2.7 ~ 3.6	2.8	37/37	2.4	2.5	-96.5	SMA Connector	616-1036-1-ND†	25.54	24.51	—	200	4148.00	JN5139-001-M01R1V
18x30	2.7 ~ 3.6	2.8	37/37	2.4	2.5	-96.5	uFI Connector	616-1038-1-ND†	25.54	24.51	—	500	9840.00	JN5139-001-M03R1T
18x30	2.7 ~ 3.6	2.8	37/37	2.4	2.5	-96.5	uFI Connector	616-1039-1-ND†	25.18	24.81	—	500	9990.00	JN5139-Z01-M03R1T
18x40.5	2.7 ~ 3.6	2	120/45	2.4	19	-100	SMA Connector	616-1031-1-ND†	34.80	31.25	—	200	5473.99	JN5139-Z01-M02R1V
18x41	2.7 ~ 3.6	2.8	120/45	2.4	19	-100	SMA Connector	616-1037-1-ND†	33.31	30.95	—	200	5414.00	JN5139-001-M02R1V
18x41	2.7 ~ 3.6	2.8	120/45	2.4	19	-100	uFI Connector	616-1040-1-ND†	34.80	31.25	—	500	12990.00	JN5139-Z01-M04R1T
18x41	2.7 ~ 3.6	2.8	120/45	2.4	19	-100	uFI Connector	616-1041-1-ND†	33.31	30.95	—	500	12840.00	JN5139-001-M04R1T

‡ For Tape and Reel part number, change 1-ND to 2-ND. † Cut Tape

Development Kits and Accessories

Description	Digi-Key Part No.	Price Each	Jennic Part No.
JN5121 802.15.4 Development Kits			
802.15.4 Development Kit for JN5121 Wireless Microcontroller, Includes 1 Controller Board with LCD, 4 Sensor Boards with Temperature Humidity and Light Sensors, Debug Cable, Batteries and Software	616-1003-ND	999.00/1	JN5121-EK000
802.15.4 Controller Expansion Pack for Development kit, includes 1 Controller Board with SMA Antenna	616-1005-ND	350.00/1	JN5121-EK002
802.15.4 Sensor Expansion Pack for Development kit, Quickly add 4 more Sensor Kits to your Development, with SMA Antennas.	616-1006-ND	700.00/1	JN5121-EK004
802.15.4 Evaluation Kit for JN5121 High Power Modules	616-1022-ND	630.00/1	JN5121-EK005
JN5121 ZigBee™ Development Kits			
ZigBee Development Kit for JN5121 Wireless Microcontroller, Includes 1 Controller Board with LCD, 4 Sensor Boards with Temperature Humidity and Light Sensors, Debug Cable, Batteries and Software	616-1016-ND	1298.75/1	JN5121-EK010
ZigBee Controller Expansion Pack for Development kit, includes 1 Controller Board with SMA Antenna	616-1013-ND	455.00/1	JN5121-EK012
ZigBee Sensor Expansion Pack for Development kit, Quickly add 4 more Sensor Boards to your Development, with SMA Antennas.	616-1015-ND	910.00/1	JN5121-EK014
ZigBee Sensor Expansion Pack for Development kit, Quickly add 4 more Sensor Boards to your Development, with Ceramic Antennas	616-1012-ND	910.00/1	JN5121-EK011
JN5139 802.15.4 Development Kit			
Full 802.15.4 Development Kit for JN5139 Module, includes controller board w/ LCD, 4 sensor modules (light, temperature and humidity) and serial converter dongle	616-1027-ND	449.00/1	JN5139-EK000
Full 802.15.4 JenNet Starter Kit for JN5139 Module, includes 3 boards w/ pre-installed modules, 2 USB-to-serial cables, 10 AAA batteries (for boards) and Software	616-1322-ND ***NEW!***	219.00/1	JN5139-EK020
JN5139 ZigBee™ Development Kit			
Full ZigBee Development Kit for JN5139 Module, includes controller board w/ LCD, 4 sensor modules (light, temperature and humidity) and serial converter dongle	616-1028-ND	499.00/1	JN5139-EK010
Serial Converter (Included in JN5121 Development Kits)			
JN5 Serial Converter Module for connection of JN5121 Development Kit to PC	616-1010-ND	54.00/1	JN-AC001

RF Ceramic Components

Ceramic Chip Antennas

Frequency (MHz)	Case Size	Gain (dBi) Peak / Average	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Johanson Technology Part No.
2,400 ~ 2,500, 4,900 ~ 5,900	46-1	1.0 / -1.5	712-1000-1-ND	1.05	.92	.85	712-1000-2-ND	1,000	421.00	2450AD46A5400E
880 ~ 960	50†	-0.7 / -2.6	712-1002-1-ND	2.23	1.94	1.79	712-1002-2-ND	1,000	891.00	0920AT50A080E
1,555 ~ 1,595	43-1	-1.5 / -2.5	712-1003-1-ND	1.51	1.32	1.22	712-1003-2-ND	1,000	606.00	1575AT43A40E
1,555 ~ 1,595	47-1	-1.0 / -3.0	712-1004-1-ND	1.51	1.32	1.22	712-1004-2-ND	1,000	606.00	1575AT47A40E
2,400 ~ 2,500	18-4	0.5 / -0.5	712-1005-1-ND	.73	.64	.59	712-1005-2-ND	3,000	294.00/M	2450AT18A100E
2,400 ~ 2,500	18-4	0.5 / -0.5	712-1006-1-ND	.50	.43	.40	712-1006-2-ND	3,000	198.00/M	2450AT18B100E
2,400 ~ 2,500	42-1	0 / -1.0	712-1007-1-ND	.78	.68	.63	712-1007-2-ND	2,000	312.00/M	2450AT42A100E
2,400 ~ 2,500	42-2	0 / -1.5	712-1008-1-ND	.84	.73	.68	712-1008-2-ND	2,000	337.00/M	2450AT42B100E
2,400 ~ 2,500	43-1	2.0 / 0.5	712-1009-1-ND	.83	.72	.66	712-1009-2-ND	1,000	330.00	2450AT43A100E
2,400 ~ 2,500	43-2	1.0 / -0.5	712-1010-1-ND	.94	.82	.76	712-1010-2-ND	1,000	376.00	2450AT43B100TE
2,400 ~ 2,500	44-1	1.3 / 0	712-1011-1-ND	.92	.80	.74	712-1011-2-ND	1,000	366.00	2450AT44A100E
2,400 ~ 2,500	45-1	3.0 / 1.0	712-1012-1-ND	.92	.80	.74	712-1012-2-ND	1,000	366.00	2450AT45A100E
Tri-Band	–†	2.0 / -4.0	712-1013-1-ND	2.23	1.94	1.79	712-1013-2-ND	1,000	891.00	2500AT52M3555E
3,100 ~ 10,300	–†	1.5 / -3.5	712-1014-1-ND	2.23	1.94	1.79	712-1014-2-ND	1,000	891.00	3100AT51A7200E
5,150 ~ 5,350	43-1	3.3 / -2.3	712-1015-1-ND	1.37	1.19	1.10	712-1015-2-ND	1,000	549.00	5250AT43A200E
4,900 ~ 5,900	18-4	2.0 / -2.5	712-1016-1-ND	.66	.58	.53	712-1016-2-ND	1,000	264.00	5400AT18A1000E
5,725 ~ 5,825	43-1	3.9 / -1.5	712-1017-1-ND	1.24	1.08	.99	712-1017-2-ND	1,000	495.00	5775AT43A100E
858 ~ 878	43-1	-1.0 / -4.0	712-1399-1-ND ***NEW!***	1.52	1.32	1.22	712-1399-2-ND ***NEW!***	1,000	606.00	0868AT43A0020E

† See Digi-Key website for detailed specifications.

Ceramic Chip Baluns and Balun Filters

Frequency (MHz)	Case Size	Impedance Unbalanced / Balanced (Ω)	Phase Difference	Amplitude Difference Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Johanson Technology Part No.
2,300 ~ 2,700	14-1	50 / 50	180°±15°	1.5	712-1046-1-ND	.74	.65	.60	712-1046-2-ND	4,000	297.00/M	2500BL14M050T
2,300 ~ 2,700	14-1	50 / 100	180°±15°	1.5	712-1047-1-ND	.74	.65	.60	712-1047-2-ND	4,000	297.00/M	2500BL14M100T
3,300 ~ 3,900	14-1	50 / 50	180°±15°	1.5	712-1048-1-ND	.74	.65	.60	712-1048-2-ND	4,000	297.00/M	3600BL14M050T
3,300 ~ 3,900	14-1	50 / 100	180°±15°	1.5	712-1049-1-ND	.74	.65	.60	712-1049-2-ND	4,000	297.00/M	3600BL14M100T
3,400 ~ 4,000	15-1B	50 / 50	180°±25°	2.0	712-1050-1-ND	.50	.43	.40	712-1050-2-ND	4,000	198.00/M	3700BL15B050E
3,400 ~ 4,000	15-1B	50 / 100	180°±20°	1.0	712-1051-1-ND	.50	.43	.40	712-1051-2-ND	4,000	198.00/M	3700BL15B100E
3,400 ~ 4,000	15-1	50 / 200	180°±20°	1.0	712-1052-1-ND	.50	.43	.40	712-1052-2-ND	4,000	198.00/M	3700BL15B200E
3,100 ~ 4,800	14-1	50 / 100	180°±20°	1.5	712-1053-1-ND	.74	.65	.60	712-1053-2-ND	4,000	297.00/M	4000BL14U100T
5,150 ~ 5,350	14-1	50 / 100	180°±15°	1.5	712-1054-1-ND	.76	.66	.61	712-1054-2-ND	4,000	305.00/M	5250BL14B100T
5,150 ~ 5,350	15-1B	50 / 100	180°±10°	2.0	712-1055-1-ND	.50	.43	.40	712-1055-2-ND	4,000	198.00/M	5250BL15B100E
5,150 ~ 5,500	15-1B	50 / 50	180°±10°	2.0	712-1056-1-ND	.50	.43	.40	712-1056-2-ND	4,000	198.00/M	5325BL15B050E
4,900 ~ 5,875	14-1	50 / 100	180°±10°	1.5	712-1057-1-ND	.59	.52	.48	712-1057-2-ND	4,000	238.00/M	5400BL14B100T
4,900 ~ 5,900	15-1B	50 / 50	180°±10°	2.0	712-1058-1-ND	.50	.43	.40	712-1058-2-ND	4,000	198.00/M	5400BL15B050E
4,900 ~ 5,900	15-1B	50 / 100	180°±10°	2.0	712-1059-1-ND	.50	.43	.40	712-1059-2-ND	4,000	198.00/M	5400BL15B100E
4,900 ~ 5,875	15-1B	50 / 200	180°±10°	2.0	712-1060-1-ND	.51	.44	.41	712-1060-2-ND	4,000	203.00/M	5400BL15B200E
4,900 ~ 5,875	15-1A	50 / 50	180°±10°	2.0	712-1061-1-ND	.50	.43	.40	712-1061-2-ND	4,000	198.00/M	5400BL15K050E
5,150 ~ 5,875	15-1B	50 / 100	180°±10°	2.0	712-1062-1-ND	.35	.31	.29	712-1062-2-ND	4,000	142.00/M	5512BL15B100E
5,725 ~ 5,875	15-1B	50 / 100	180°±8°	0.75	712-1063-1-ND	.50	.43	.40	712-1063-2-ND	4,000	198.00/M	5800BL15B100E
2,400 ~ 2,500	18-4	50 / —	180°±10°	2.0 TX, 3.0 RX	712-1064-1-ND‡	1.49	1.29	1.19	712-1064-2-ND‡	3,000	594.00/M	2450BM18A001E
Balun Filters												
2,400 ~ 2,500	15-1A	50 / 50	180°±10°	1.0	712-1065-1-ND	1.02	.89	.82	712-1065-2-ND	4,000	407.00/M	2450FB15A050E
2,400 ~ 2,500	15†	50 / —	180°±10°	1.5	712-1066-1-ND	1.02	.89	.82	712-1066-2-ND	4,000	407.00/M	2450FB15K0001E
2,400 ~ 2,500	39†	50 / 22	180°±8°	1.0	712-1114-1-ND	1.55	1.35	1.25	712-1114-2-ND	3,000	621.00/M	2450FB39K001E
2,400 ~ 2,500	39-2	50 / 50	180°±10°	1.0	712-1067-1-ND	1.04	.90	.83	712-1067-2-ND	3,000	414.00/M	2450FB39A050E
2,400 ~ 2,500	39-2	50 / 100	180°±10°	1.0	712-1068-1-ND	.84	.73	.68	712-1068-2-ND	3,000	337.00/M	2450FB39B100E
2,400 ~ 2,500	39†	50 / 100	180±8°	1.0	712-1069-1-ND	1.04	.90	.83	712-1069-2-ND	3,000	414.00/M	2450FB39C100E

† See Digi-Key website for detailed specifications. ‡ Matching networks

Baluns 2.45GHz WiFi/Bluetooth

Frequency (MHz)	Case Size	Impedance Unbalanced / Balanced (Ω)	Phase Difference	Amplitude Difference Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Johanson Technology Part No.
2,400 ~ 2,500	14-1	50 / 50	180°±10°	2.0	712-1034-1-ND	.99	.86	.80	712-1034-2-ND	4,000	396.00/M	2450BL14B050T
2,400 ~ 2,500	14-1	50 / 100	180°±10°	2.0	712-1035-1-ND	.99	.86	.80	712-1035-2-ND	4,000	396.00/M	2450BL14B100T
2,400 ~ 2,500	14-1	50 / 200	180°±10°	2.0	712-1036-1-ND	.94	.82	.76	712-1036-2-ND	4,000	376.00/M	2450BL14B200T
2,400 ~ 2,500	14-1	50 / 50	180°±10°	2.0	712-1037-1-ND	.74	.65	.60	712-1037-2-ND	4,000	297.00/M	2450BL14C050T
2,400 ~ 2,500	14-1	50 / 100	180°±10°	1.5	712-1038-1-ND	.74	.65	.60	712-1038-2-ND	4,000	297.00/M	2450BL14C100T
2,400 ~ 2,500	14-1	50 / 200	180°±10°	2.0	712-1039-1-ND	.74	.65	.60	712-1039-2-ND	4,000	297.00/M	2450BL14C200T
2,400 ~ 2,500	15-1B	50 / 50	180°±10°	2.0	712-1040-1-ND	.35	.31	.29	712-1040-2-ND	4,000	142.00/M	2450BL15B050E
2,400 ~ 2,500	15-1B	50 / 100	180°±10°	2.0	712-1041-1-ND	.28	.25	.23	712-1041-2-ND	4,000	112.00/M	2450BL15B100E
2,400 ~ 2,500	15-1B	50 / 150	180°±10°	2.0	712-1042-1-ND	.50	.43	.40	712-1042-2-ND	4,000	198.00/M	2450BL15B150E
2,400 ~ 2,500	15-1B	50 / 200	180°±10°	2.0	712-1043-1-ND	.35	.31	.29	712-1043-2-ND	4,000	142.00/M	2450BL15B200E
2,400 ~ 2,500	15-1B	50 / 50	180°±10°	2.0	712-1044-1-ND	.35	.31	.29	712-1044-2-ND	4,000	142.00/M	2450BL15K050E
2,400 ~ 2,500	15-1B	50 / 100	180°±10°	2.0	712-1045-1-ND	.50	.43	.40	712-1045-2-ND	4,000	198.00/M	2450BL15K100E

Baluns GSM / DCS / PCS / CDMA

Frequency (MHz)	Case Size	Impedance Unbalanced / Balanced (Ω)	Phase Difference	Amplitude Difference Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Johanson Technology Part No.
900 ~ 940	41-2	50 / 50	—	—	712-1018-1-ND	1.14	.99	.92	712-1018-2-ND	2,000	455.00/M	0918BD41B050E
460 ~ 470	15-3	— / 100	180°±10°	1.5	712-1019-1-ND	.99	.86	.80	712-1019-2-ND	4,000	396.00/M	0465BL15B100E

(Continued)

RF Ceramic Components

Baluns GSM / DCS / PCS / CDMA *(Cont.)*

Frequency (MHz)	Case Size	Impedance Unbalanced / Balanced (Ω)	Phase Difference	Amplitude Difference Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Johanson Technology Part No.
800 ~ 900	15-1D	50 / 200	180°±10°	1.0	712-1020-1-ND	.50	.43	.40	712-1020-2-ND	4,000	198.00/M	0866BL15C200E
851 ~ 941	14-1	50 / 50	180°±7°	0.7	712-1021-1-ND	.99	.86	.80	712-1021-2-ND	4,000	396.00/M	0896BL14B050T
800 ~ 1,000	15-1D	50 / 50	180°±10°	2.0	712-1022-1-ND	.74	.65	.60	712-1022-2-ND	4,000	297.00/M	0900BL15C050E
800 ~ 1,000	18-1	50 / 100	180°±10°	2.0	712-1023-1-ND	.50	.43	.40	712-1023-2-ND	3,000	198.00/M	0900BL18B100E
800 ~ 1,000	18-1	50 / 200	180°±10°	2.0	712-1024-1-ND	.40	.35	.32	712-1024-2-ND	3,000	158.00/M	0900BL18B200E
1,700 ~ 1,900	18-1	50 / 200	180°±10°	2.0	712-1028-1-ND	.50	.43	.40	712-1028-2-ND	3,000	198.00/M	1800BL18B200E
1,700 ~ 2,000	15-1	50 / 50	180°±10°	2.0	712-1029-1-ND	.50	.43	.40	712-1029-2-ND	4,000	198.00/M	1850BL15A050E
1,700 ~ 2,000	15-1B	50 / 50	180°±10°	2.0	712-1030-1-ND	.50	.43	.40	712-1030-2-ND	4,000	198.00/M	1850BL15B050E
1,700 ~ 2,000	15-1B	50 / 100	180°±10°	2.0	712-1031-1-ND	.50	.43	.40	712-1031-2-ND	4,000	198.00/M	1850BL15B100E
1,700 ~ 2,000	15-1B	50 / 200	180°±10°	2.0	712-1032-1-ND	.50	.43	.40	712-1032-2-ND	4,000	198.00/M	1850BL15B200E

Baluns WiMAX and WCDMA

Frequency (MHz)	Case Size	Impedance Unbalanced / Balanced (Ω)	Phase Difference	Amplitude Difference Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Johanson Technology Part No.
1,400 ~ 1,500	15-1B	50 / 200	180°±10°	2.0	712-1025-1-ND	.50	.43	.40	712-1025-2-ND	4,000	198.00/M	1450BL15A200E
1,500 ~ 1,700	15-1B	50 / 50	180°±10°	2.0	712-1026-1-ND	.50	.43	.40	712-1026-2-ND	4,000	198.00/M	1600BL15B050E
1,500 ~ 1,700	15-1B	50 / 100	180°±10°	2.0	712-1027-1-ND	.50	.43	.40	712-1027-2-ND	4,000	198.00/M	1600BL15B100E
2,000 ~ 2,200	18-1	50 / 200	180°±10°	2.0	712-1033-1-ND	.50	.43	.40	712-1033-2-ND	3,000	198.00/M	2100BL18B200E

BandPass Filters

Frequency (MHz)	Case Size	Insertion Loss Maximum (dB)	Return Loss Minimum (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Johanson Technology Part No.
1,710 ~ 1,910	07-1	2.0	9.5	712-1070-1-ND	.39	.34	.32	712-1070-2-ND	10,000	151.00/M	1810BP07B200E
1,710 ~ 1,910	07-1	2.0	9.5	712-1071-1-ND	.41	.36	.33	712-1071-2-ND	10,000	158.00/M	1810BP07C200E
1,893 ~ 1,920	18-3B	1.5	9.5	712-1073-1-ND	1.17	1.02	.94	712-1073-2-ND	3,000	467.00/M	1906BP18A027E
1,893 ~ 1,920	39†	2.8	9.5	712-1075-1-ND	.89	.78	.72	712-1075-2-ND	3,000	357.00/M	1906BP39B027E
1,893 ~ 1,920	18†	2.0	9.5	712-1074-1-ND	1.17	1.02	.94	712-1074-2-ND	3,000	467.00/M	1906BP18C027E
2,400 ~ 2,500	07†	2.5	9.5	712-1076-1-ND	1.04	.90	.83	712-1076-2-ND	10,000	400.00/M	2450BP07A0100E
2,400 ~ 2,500	14†	2.0	9.5	712-1077-1-ND	1.04	.90	.83	712-1077-2-ND	4,000	414.00/M	2450BP14C0100T
2,400 ~ 2,500	15-3	2.2	9.5	712-1078-1-ND	.50	.43	.40	712-1078-2-ND	4,000	198.00/M	2450BP15B100E
2,400 ~ 2,500	15-3B	2.8	9.5	712-1079-1-ND	.74	.65	.60	712-1079-2-ND	4,000	297.00/M	2450BP15C100E
2,400 ~ 2,500	15-1F	2.6	9.5	712-1080-1-ND	.93	.81	.75	712-1080-2-ND	4,000	372.00/M	2450BP15D100E
2,400 ~ 2,500	15-3C	1.5	9.5	712-1081-1-ND	1.14	.99	.92	712-1081-2-ND	4,000	455.00/M	2450BP15E0100E
2,450 ±50	18-1	2.5	9.5	712-1082-1-ND	1.14	.99	.92	712-1082-2-ND	3,000	455.00/M	2450BP18C100AE
2,450 ±50	18-2	2.0	9.5	712-1083-1-ND	1.14	.99	.92	712-1083-2-ND	3,000	455.00/M	2450BP18C100BE
2,450 ±50	18-3A	2.5	9.5	712-1084-1-ND	.64	.56	.52	712-1084-2-ND	3,000	257.00/M	2450BP18C100CE
2,400 ~ 2,500	18-3B	2.0	9.5	712-1085-1-ND	1.14	.99	.92	712-1085-2-ND	3,000	455.00/M	2450BP18C100DE
2,400 ~ 2,500	18-3C	2.3	9.5	712-1086-1-ND	1.14	.99	.92	712-1086-2-ND	3,000	455.00/M	2450BP18D100AE
2,450 ±50	39-1	2.5	9.5	712-1087-1-ND	.46	.40	.37	712-1087-2-ND	3,000	182.00/M	2450BP39C100AE
2,450 ±50	39-1	1.8	9.5	712-1088-1-ND	.50	.43	.40	712-1088-2-ND	3,000	198.00/M	2450BP39C100BE
2,400 ~ 2,500	39-1	1.5	9.5	712-1089-1-ND	.44	.38	.35	712-1089-2-ND	3,000	174.00/M	2450BP39C100CE
2,400 ~ 2,500	39-1	2.2	9.5	712-1090-1-ND	.50	.43	.40	712-1090-2-ND	3,000	198.00/M	2450BP39C100DE
2,400 ~ 2,500	39-1	2.5	9.5	712-1091-1-ND	.52	.45	.42	712-1091-2-ND	3,000	207.00/M	2450BP39D100BE
2,400 ~ 2,500	39-1	1.2	9.5	712-1092-1-ND	.89	.78	.72	712-1092-2-ND	3,000	356.00/M	2450BP39D100CE
2,400 ~ 2,500	39-1	2.6	8.9	712-1093-1-ND	.89	.78	.72	712-1093-2-ND	3,000	356.00/M	2450BP39E100AE
2,450 ±50	41-1	2.3	9.5	712-1095-1-ND	1.27	1.10	1.02	712-1095-2-ND	2,000	507.00/M	2450BP41D100AE
2,450 ±50	41-1	1.3	9.5	712-1096-1-ND	1.24	1.08	.99	712-1096-2-ND	2,000	495.00/M	2450BP41D100BE
2,450 ±50	41-1	2.5	9.5	712-1094-1-ND	1.02	.89	.82	712-1094-2-ND	2,000	407.00/M	2450BP41D100E
2,300 ~ 2,700	15†	2.0	9.5	712-1097-1-ND	1.24	1.08	.99	712-1097-2-ND	4,000	495.00/M	2500BP15M400E
2,500 ~ 2,686	44-1	2.0	9.5	712-1098-1-ND	1.73	1.51	1.39	712-1098-2-ND	2,000	693.00/M	2593BP44B186E
3,300 ~ 3,900	15-3B	1.8	9.5	712-1099-1-ND	.89	.78	.72	712-1099-2-ND	4,000	356.00/M	3600BP15M600E
3,100 ~ 4,900	15-2B	2.3	8.5	712-1100-1-ND	.99	.86	.80	712-1100-2-ND	4,000	396.00/M	4000BP15U1800E
3,100 ~ 7,160	18-4	1.6	9.5	712-1101-1-ND	1.04	.90	.83	712-1101-2-ND	3,000	414.00/M	5130BP18U4060E
5,450 ±300	15-3C	2.0	—	712-1102-1-ND	.89	.78	.72	712-1102-2-ND	4,000	356.00/M	5450BP15T600E
5,150 ~ 5,825	15-1B	1.8	9.5	712-1103-1-ND	.89	.78	.72	712-1103-2-ND	4,000	356.00/M	5487BP15B675E
5,150 ~ 5,825	15-1B	1.8	9.5	712-1104-1-ND	.89	.78	.72	712-1104-2-ND	4,000	356.00/M	5487BP15C675E
5,150 ~ 5,875	15-3B	1.5	9.5	712-1105-1-ND	.50	.43	.40	712-1105-2-ND	4,000	198.00/M	5515BP15B725E
5,150 ~ 5,875	15-3B	2.5	9.5	712-1109-1-ND	.42	.37	.34	712-1109-2-ND	4,000	168.00/M	5515BP15C725E
5,150 ~ 5,875	15-1B	2.8	9.5	712-1106-1-ND	.89	.78	.72	712-1106-2-ND	4,000	356.00/M	5515BP15B730E
4,900 ~ 5,875	15-3B	1.5	9.5	712-1107-1-ND	.50	.43	.40	712-1107-2-ND	4,000	198.00/M	5515BP15B975E
4,900 ~ 5,875	15-3B	2.0	8.5	712-1136-1-ND	.50	.43	.40	712-1136-2-ND	4,000	198.00/M	5515BP15C975E
4,900 ~ 5,920	15-3B	1.5	9.5	712-1108-1-ND	.50	.43	.40	712-1108-2-ND	4,000	198.00/M	5515BP15C1020E

† See Digi-Key website for detailed specifications.

Ceramic Chip Diplexers

Frequency (MHz)	Case Size	Attentuation Low Band (dB)	Attenuation High Band (dB)	Return Loss (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Johanson Technology Part No.
2,450 ~ 5,400	15-1D	0.70	19	9.5	712-1110-1-ND	.99	.86	.80	712-1110-2-ND	4,000	396.00/M	2450DP15F5400E

EMI Filters

No. of Sections	Case Size	Cutoff Frequency (MHz)	Attenuation Minimum (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Johanson Technology Part No.
4	18-4	200	10 @ 1500 ~ 3000MHz	712-1111-1-ND	.84	.73	.68	712-1111-2-ND	3,000	337.00/M	0200FA18A0200E
	15†	400	20 @ 800 ~ 1000MHz	712-1112-1-ND	.50	.43	.40	712-1112-2-ND	4,000	198.00/M	0400FA15A0400E
	18-4	400	10 @ 1500 ~ 2500MHz	712-1113-1-ND	.84	.73	.68	712-1113-2-ND	3,000	337.00/M	0400FA18A0400E

† See Digi-Key website for detailed specifications.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

High and Low Pass Filters

Frequency (MHz)	Case Size	Insertion Loss Maximum (dB)	Return Loss Minimum (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
					1	10	100		Qty.	Pricing	
High Pass Filters											
2,450 ~ 2,500	14-1B	1.3	14	712-1115-1-ND	.78	.68	.63	712-1115-2-ND	4,000	311.00/M	2450HP14A100T
2,450 ~ 2,500	15†	0.85	9.5	712-1116-1-ND	.86	.75	.69	712-1116-2-ND	4,000	345.00/M	2450HP15A100E
Low Pass Filters											
0 ~ 500	15-1A	0.7	9.5	712-1117-1-ND	.89	.78	.72	712-1117-2-ND	4,000	356.00/M	0500LP15A500E
824 ~ 915	14-1	0.6	10.9	712-1118-1-ND	.89	.78	.72	712-1118-2-ND	4,000	356.00/M	0869LP14A090T
824 ~ 960	07-1	0.7	9.5	712-1119-1-ND	1.14	.99	.92	712-1119-2-ND	10,000	440.00/M	0892LP07A136E
880 ~ 915	18-2	0.6	10.9	712-1120-1-ND	1.14	.99	.92	712-1120-2-ND	3,000	455.00/M	0898LP18A035E
902 ~ 928	15-2A	0.65	9.5	712-1121-1-ND	.89	.78	.72	712-1121-2-ND	4,000	356.00/M	0915LP15A026E
902 ~ 928	15-2A	0.5	14.0	712-1122-1-ND	.92	.80	.74	712-1122-2-ND	4,000	366.00/M	0915LP15B026E
1,710 ~ 1,785	18-2	0.6	10.9	712-1123-1-ND	.96	.84	.78	712-1123-2-ND	3,000	386.00/M	1748LP18A075E
1,710 ~ 1,910	07-1	0.5	10.9	712-1124-1-ND	.74	.65	.60	712-1124-2-ND	10,000	287.00/M	1810LP07A200E
1,710 ~ 1,910	07-1	0.6	9.5	712-1125-1-ND	.51	.44	.41	712-1125-2-ND	10,000	196.00/M	1810LP07B200E
1,710 ~ 1,910	14-1	0.6	11.7	712-1126-1-ND	.89	.78	.72	712-1126-2-ND	4,000	356.00/M	1810LP14A200T
1,850 ~ 1,910	14-1	0.6	11.7	712-1127-1-ND	.89	.78	.72	712-1127-2-ND	4,000	356.00/M	1880LP14A060T
2,400 ~ 2,483	18-2	0.6	10.9	712-1128-1-ND	.94	.82	.76	712-1128-2-ND	3,000	376.00/M	2442LP18A083E
2,400 ~ 2,500	14-1	0.5	14.0	712-1129-1-ND	.89	.78	.72	712-1129-2-ND	4,000	356.00/M	2450LP14A100T
2,400 ~ 2,500	14-1	0.5	14.0	712-1130-1-ND	.89	.78	.72	712-1130-2-ND	4,000	356.00/M	2450LP14B100T
2,400 ~ 2,500	14-1	0.6	11.7	712-1131-1-ND	.89	.78	.72	712-1131-2-ND	4,000	356.00/M	2450LP14C100T
2,400 ~ 2,500	14-1	0.5	10.0	712-1132-1-ND	.45	.39	.36	712-1132-2-ND	4,000	178.00/M	2450LP15A050E
2,400 ~ 2,500	15†	0.5	10.9	712-1133-1-ND	.93	.81	.75	712-1133-2-ND	4,000	372.00/M	2450LP15B050E
3,400 ~ 3,700	14-1	0.65	14.0	712-1134-1-ND	.50	.43	.40	712-1134-2-ND	4,000	198.00/M	3550LP14A300T
5,150 ~ 5,875	15-2A	0.6	10.9	712-1135-1-ND	.45	.39	.36	712-1135-2-ND	4,000	178.00/M	5515LP15A730E

† See Digi-Key website for detailed specifications.

Directional Couplers

Frequency (MHz)	Case Size	Insertion Loss Maximum (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
				1	10	100		Qty.	Pricing	
Dual Band, Dual Path										
824 ~915, 999 ~ 1,002	14†	0.4, 0.6	712-1148-1-ND‡	.99	.86	.80	712-1148-2-ND‡	4,000	396.00/M	0869CP14B1050T
824 ~ 915, 1,710 ~ 1,910	14†	0.4, 0.4	712-1137-1-ND	.78	.68	.63	712-1137-2-ND	4,000	311.00/M	0869CD14A1810T
880 ~ 915, 1,710 ~ 1,785	15-2A	0.4, 0.4	712-1138-1-ND	1.24	1.08	.99	712-1138-2-ND	4,000	495.00/M	0898CD15B1748E
880 ~ 915, 1,710 ~ 1,785	15-2A	0.35, 0.45	712-1139-1-ND	.59	.52	.48	712-1139-2-ND	4,000	238.00/M	0898CD15C1748E
880 ~ 915, 1,710 ~ 1,785	15-2A	0.35, 0.5	712-1140-1-ND	1.24	1.08	.99	712-1140-2-ND	4,000	495.00/M	0898CD15D1748E
Couplers with Low Pass Filter										
880 ~ 915	15-1C	0.7	712-1141-1-ND	.59	.52	.48	712-1141-2-ND	4,000	238.00/M	0898CF15A035E
1,710 ~ 1,785	15-1C	0.5	712-1142-1-ND	.59	.52	.48	712-1142-2-ND	4,000	238.00/M	1748CF15A075E
Splitter, 3dB Hybrid										
850 ~ 910	15-4	3.3±0.5	712-1143-1-ND	1.14	.99	.92	712-1143-2-ND	4,000	455.00/M	0880CH15A060E
1,900 ~ 2,000	15-4	3.3±0.5	712-1145-1-ND	1.14	.99	.92	712-1145-2-ND	4,000	455.00/M	1950CH15A100E
Directional Couplers										
810 ~ 885	14-1	0.25	712-1146-1-ND	.99	.86	.80	712-1146-2-ND	4,000	396.00/M	0848CP14A075T
824 ~ 915	14-1	0.3	712-1147-1-ND	.99	.86	.80	712-1147-2-ND	4,000	396.00/M	0869CP14A090T
880 ~ 915	14-1	0.28	712-1149-1-ND	.74	.65	.60	712-1149-2-ND	4,000	297.00/M	0898CP14A035T
880 ~ 915	14-1	0.25	712-1150-1-ND	.99	.86	.80	712-1150-2-ND	4,000	396.00/M	0898CP14B035T
880 ~ 915	15-1C	0.5	712-1151-1-ND	.89	.78	.72	712-1151-2-ND	4,000	356.00/M	0898CP15A035E
955 ~ 979	14-1	0.5	712-1152-1-ND	.99	.86	.80	712-1152-2-ND	4,000	396.00/M	0967CP14A024T
1,710 ~ 1,785	14-1	0.44	712-1153-1-ND	.74	.65	.60	712-1153-2-ND	4,000	297.00/M	1747CP14A075T
1,710 ~ 1,785	15-1C	0.5	712-1154-1-ND	.89	.78	.72	712-1154-2-ND	4,000	356.00/M	1748CP15A075E
1,710 ~ 1,910	14-1	0.3	712-1155-1-ND	.99	.86	.80	712-1155-2-ND	4,000	396.00/M	1810CP14A200T
2,400 ~ 2,500	14-1	0.74	712-1156-1-ND	.78	.68	.63	712-1156-2-ND	4,000	311.00/M	2450CP14A100T
2,400 ~ 2,500	14-1	0.34	712-1157-1-ND	.78	.68	.63	712-1157-2-ND	4,000	311.00/M	2450CP14B100T

† See Digi-Key website for detailed specifications. ‡ Dual Band, Single Path

NEW! Kaltman Creations LLC "First to Market" Solutions RF Spectrum Analyzers, Cable Coiler

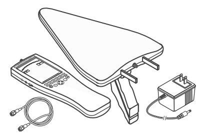

RF Spectrum Analyzers

Analyzer Bandwidth (MHz ~ GHz)	Filter Bandwidth Min. ~ Max. (kHz ~ MHz)	Typical Accuracy (dB)	Included Antenna Bandwidth (MHz ~ GHz)	Digi-Key Part No.	Price Each	Kaltman Creations Part No.
10 ~ 4	100 ~ 50	±3	400 ~ 4	774-1000-ND	1400.00	SPECTRAN HF4040
10 ~ 6	100 ~ 50	±3	400 ~ 6	774-1001-ND	1700.00	SPECTRAN HF4060
1 ~ 6	100 ~ 50	±3	400 ~ 6	774-1002-ND	3099.99	SPECTRAN HF6060
1 ~ 7	100 ~ 50	±3	400 ~ 8	774-1003-ND	3895.01	SPECTRAN HF6080

Cable Coiler

The Cable Coiler allows rapid, twist free winding of any type of cable 100 feet plus. Operated off of six "D" batteries, this compact unit can wind cable in just a few seconds, extending the life of the cable and eliminating manual coiling. The Cable Slap Ties provide a simple and fast way to bundle the wire or cable.

Description	Digi-Key Part No.	Price Each	Kaltman Creations Part No.
Cable Coiler, includes 10 Cable Slap Ties	774-1004-ND	159.95	KCC50-5
Cable Slap Ties, Red/Green/Yellow, 7 each (package of 21 pieces)	774-1005-ND	24.95	CST21-RGY
Cable Slap Ties, Blue (package of 21 pieces)	774-1006-ND	24.95	CST21-B

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel**®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key**® Services on page 2 for additional information.

NEW! Laird TECHNOLOGIES Wireless Products

With the addition of the Aerocomm (Proprietary RF) and EZURiO (Bluetooth and WLAN) products, Laird offers a wide variety of wireless systems solutions based on standard and proprietary solutions, either module or stand-alone format.

The Proprietary RF Modules provide a simple serial interface, multiple antenna options and ranges up 20 Miles (Line of Sight, 1W output radios).

The Stand-Alone Radio Modems provide an embedded module with the included antenna and enclosure with a serial interface (RS-232, DB9 connection).

The WLAN Modules provide a serial to 802.11B/G connection, with an AT interface and configureable I/O and ADC.

The Bluetooth Modules provide a serial to Bluetooth 2.0 connection, with an AT interface and multiple power output and serial connection options.

Development Kits for the proprietary RF modules include: 2 RF Test boards with power supplies, Cables, Configuration Software and documentation.

Proprietary RF Module

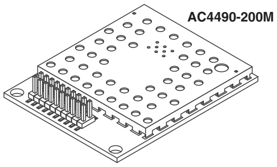

802.11B/G WLAN Module

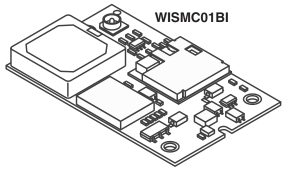

Frequency	Power Output Max. (mW)	Antenna Type	Serial Baud Rate Max. (kbps)	Serial Interface	Standard/ Modulation	Digi-Key Part No.	Price Each			Laird Technologies Part No.
							1	50	100	
Proprietary RF Modules										
900	200	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4490-200M-ND‡	62.50	58.50	54.50	AC4490-200M
						AC4490LR-200M-ND†‡	68.50	64.00	59.51	AC4490LR-200M
						AC4490-200M-485-ND§	63.50	59.50	55.51	AC4490-200M-485
		Integral	115.2	3V or 5V TTL	FHSS	AC4490-200A-ND‡	63.85	59.85	55.85	AC4490-200A
						AC4490-200A-485-ND§	64.85	60.86	56.86	AC4490-200A-485
	1000	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4490-1000M-ND‡	77.50	73.01	68.51	AC4490-1000M
						AC4490LR-1000M-ND†‡	84.50	79.51	74.50	AC4490LR-1000M
						AC4490-1000M-485-ND§	78.50	74.01	69.50	AC4490-1000M-485
900	200	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4790-200M-ND‡	62.50	58.50	54.50	AC4790-200M
						AC4790LR-200M-ND†‡	68.50	64.00	59.51	AC4790LR-200M
						AC4790-200M-485-ND§	63.50	59.50	55.51	AC4790-200M-485
		Integral	115.2	3V or 5V TTL	FHSS	AC4790-200A-ND‡	63.85	59.85	55.85	AC4790-200A
						AC4790-200A-485-ND§	64.85	60.86	56.86	AC4790-200A-485
	1000	Connector, MMCX	115.2	3V or 5V TTL	FHSS	AC4790-1000M-ND‡	77.50	73.01	68.51	AC4790-1000M
						AC4790LR-1000M-ND†‡	84.50	79.50	74.50	AC4790LR-1000M
						AC4790-1000M-485-ND§	78.50	74.01	69.50	AC4790-1000M-485
868	5	Connector, MMCX	115.2	3V or 5V TTL	FSK	AC4486-5M-ND‡	58.45	55.23	52.00	AC4486-5M
						AC4486-5M-485-ND§	59.45	56.23	53.01	AC4486-5M-485
		Integral	115.2	3V or 5V TTL	FSK	AC4486-5A-ND‡	60.35	57.18	54.01	AC4486-5A
						AC4486-5A-485-ND§	61.35	58.04	54.71	AC4486-5A-485
868	250	Connector, MMCX	57.6	3V TTL	FSK	AC4868-250M-ND‡	78.65	76.20	73.75	AC4868-250M
						AC4868-250M-485-ND§	79.65	77.20	74.76	AC4868-250M-485
2400	10	Connector, MMCX	192	3V or 5V TTL	FHSS	AC4424-10-ND‡	85.00	82.50	80.00	AC4424-10
		Integral	192	3V or 5V TTL	FHSS	AC4424-10A-ND‡	87.00	85.01	83.00	AC4424-10A
	100	Connector, MMCX	192	3V or 5V TTL	FHSS	AC4424-100-ND‡	90.00	87.51	85.00	AC4424-100
	200	Connector, MMCX	192	3V or 5V TTL	FHSS	AC4424-200-ND‡	91.00	88.50	86.00	AC4424-200
Stand-Alone Radio Modules										
2400	100	Dipole, RPSMA	288	RS232, DB9 Male	FHSS	CL4424-100-232-ND◆	184.00	179.01	174.01	CL4424-100-232
				RS232, DB9 Male		CL4424-100-232-SP-ND◆	368.00	358.01	348.01	CL4424-100-232-SP
				RS485, DB9 Male		CL4424-100-485-ND◆	184.00	179.01	174.01	CL4424-100-485
				RS485, DB9 Male		CL4424-100-485-SP-ND◆	368.00	358.01	348.01	CL4424-100-485-SP
900	200	Dipole, RPSMA (female)	115.2	RS232, DB9 Female	FHSS	CL4490-200-05-ND	110.00	—	—	CL4490-200-05
900	1000	Dipole, RPSMA (female)	115.2	RS232, DB9 Male	FHSS	CL4490-1000-232-ND	110.00	—	—	CL4490-1000-232
				RS232, DB9 Male		CL4490-1000-232-SP-ND	225.00	—	—	CL4490-1000-232-SP
				RS485, DB9 Male		CL4490-1000-485-ND	110.00	—	—	CL4490-1000-485
				RS485, DB9 Male		CL4490-1000-485-SP-ND	225.00	—	—	CL4490-1000-485-SP
				RS232, DB9 Male		CL4490-1000-PRO-ND	149.00	—	—	CL4490-1000-PRO
				RS232, DB9 Male		CL4490-1000-PRO-SP-ND	300.00	—	—	CL4490-1000-PRO-SP
900	200	Dipole, RPSMA (female)	115.2	RS232, DB9 Female	FHSS	CL4790-200-05-ND	110.00	—	—	CL4790-200-05
900	1000	Dipole, RPSMA (female)	115.2	RS232, DB9 Male	FHSS	CL4790-1000-232-ND	110.00	—	—	CL4790-1000-232
				RS232, DB9 Male		CL4790-1000-232-SP-ND	225.00	—	—	CL4790-1000-232-SP
				RS485, DB9 Male		CL4790-1000-485-ND	110.00	—	—	CL4790-1000-485
				RS485, DB9 Male		CL4790-1000-485-SP-ND	225.00	—	—	CL4790-1000-485-SP
900	1000	Dipole, RPSMA (female)	115.2	RS232, DB9 Female	FHSS	CN4490-1000-232-SP-ND	382.00	—	—	CN4490-1000-232-SP
						CN4490-1000-PRO-SP-ND	421.00	—	—	CN4490-1000-PRO-SP

◆ ***RoHS Compliant*** † Increased Sensitivity for Longer Range ‡ RS232 Serial Interface § RS485 Serial Interface

(Continued)

NEW! Laird TECHNOLOGIES® Wireless Products *(Cont.)*

Frequency	Power Output Max. (mW)	Antenna Type	Serial Rate Max. (kbps)	Serial Interface	Standard/ Modulation	Digi-Key Part No.	Price Each 1	50	100	Laird Technologies Part No.
900	1000	Dipole, RPSMA (female)	115.2	RS232, DB9 Female	FHSS	CN4490-1000-ND	249.00	—	—	CN4490-1000
						CN4490-1000-SP-ND	499.00	—	—	CN4490-1000-SP
900	1000	Dipole, RPSMA (female)	115.2	RS232, DB9 Female	FHSS	CN4790-1000-232-SP-ND	382.00	—	—	CN4790-1000-232-SP
						CN4790-1000-ND	249.00	—	—	CN4790-1000

◆ ***RoHS Compliant*** † Increased Sensitivity for Longer Range ‡ RS232 Serial Interface § RS485 Serial Interface

Frequency	Power Output Max. (dBm)	Antenna Type	Serial Baud Rate Max. (kbps)	Serial Interface	Standard/ Modulation	Digi-Key Part No.	Price Each	Laird Technologies Part No.
				EZURiO Bluetooth and WLAN Modules				
2400	+15▲	Ceramic	921.6	UART	802.11B/G	WISMC01BI-ND	110.10	WISMC01BI
						WISMC03BI-ND	110.10	WISMC03BI
						WISMC04BI-ND	110.10	WISMC04BI
2400	+6	Ceramic Connector, u.FL	921.6	RS-232	Bluetooth 2.0	TRBLU23-00200-ND	42.31	TRBLU23-00200
						TRBLU23-00300-ND	42.31	TRBLU23-00300
2400	+6	Ceramic	921.6	RS-232	Bluetooth 2.0	BISMS02BI-ND	32.86	BISMS02BI
	+6	—	921.6	RS-232	Bluetooth 2.0	BISMS02BI-NA-ND	32.86	BISMS02BI-NA
	+6	Integrated Ceramic	250	RS-232, DB9 Female	Bluetooth 1.1	BHCRS02BI-ND	143.23	BHCRS02BI
	+6	Integrated Ceramic	3000	USB Dongle	Bluetooth 2.0	BRBLU03-010A0-ND	45.22	BRBLU03-010A0
	+16▲	Ceramic	921.6	RS-232	Bluetooth 2.0	BTM402-ND	45.92	BTM402

▲ At Antenna Connector

Description	Digi-Key Part No.	Price Each	Laird Technologies Part No.
Proprietary RF Module Developer Kits			
AC4490-200M Developer's Kit	SDK-AC4490-200M-ND	199.00	SDK-AC4490-200M
AC4490LR-200M Developer's Kit	SDK-AC4490LR-200M-ND	225.00	SDK-AC4490LR-200M
AC4490-200A Developer's Kit	SDK-AC4490-200A-ND	199.00	SDK-AC4490-200A
AC4490-1000M Developer's Kit	SDK-AC4490-1000M-ND	199.00	SDK-AC4490-1000M
AC4490LR-1000M Developer's Kit	SDK-AC4490LR-1000M-ND	225.00	SDK-AC4490LR-1000M
AC4790-200M Developer's Kit	SDK-AC4790-200M-ND	199.00	SDK-AC4790-200M
AC4790LR-200M Developer's Kit	SDK-AC4790LR-200M-ND	225.00	SDK-AC4790LR-200M
AC4790-200A Developer's Kit	SDK-AC4790-200A-ND	199.00	SDK-AC4790-200A
AC4790-1000M Developer's Kit	SDK-AC4790-1000M-ND	199.00	SDK-AC4790-1000M
AC4790LR-1000M Developer's Kit	SDK-AC4790LR-1000M-ND	225.00	SDK-AC4790LR-1000M
AC4486-5M Developer's Kit	SDK-AC4486-5M-ND	199.00	SDK-AC4486-5M
AC4486-5A Developer's Kit	SDK-AC4486-5A-ND	199.00	SDK-AC4486-5A
AC4868-250M Developer's Kit	SDK-AC4868-250M-ND	199.00	SDK-AC4868-250M
AC4424-10 Developer's Kit	SDK-AC4424-10-ND	199.00	SDK-AC4424-10
AC4424-10A Developer's Kit	SDK-AC4424-10A-ND	199.00	SDK-AC4424-10A
AC4424-100 Developer's Kit	SDK-AC4424-100-ND	199.00	SDK-AC4424-100
AC4424-200 Developer's Kit	SDK-AC4424-200-ND	199.00	SDK-AC4424-200
Bluetooth and WLAN Module Developer Kits			
Development Kit for Bluetooth Module BISM II and USB II	BISDK02BI-02-ND	180.88	BISDK02BI-02
Development Kit for Bluetooth Module BISM II, WISM TCP/IP and USB II	BISDK02BI-03-ND	320.67	BISDK02BI-03
Development Kit for WLAN Module WISM TCP/IP	WISDK01BI-02-ND	296.00	WISDK01BI-02
Accessories			
Samtec 20-pin mating Connector for AC44xx	0700-00012-ND	4.00	0700-00012
Power Supply, 7.5VDC, 1.5A, Switching Regulator, 100 ~ 240VAC Input	0650-00005-ND	20.00	0650-00005
Antenna, 915MHz, Whip, 1/2 Wave, 7", 2dBi, Right Angle, MMCX Plug	0600-00019-ND	14.00	0600-00019
Antenna, 915MHz, Whip, 1/2 Wave, 7", 2dBi, Right Angle, RPSMA Plug	0600-00024-ND	14.00	0600-00024
Antenna, 915MHz, 1/2 Wave, 7", 2dBi, MMCX Plug	0600-00025-ND	14.00	0600-00025
Antenna, 915MHz, 1/2 Wave, 7", 2dBi, RPSMA	0600-00027-ND	14.00	0600-00027
Antenna, 915MHz, 1/2 Wave, 6", 2.5dBi, Right Angle, RPSMA	0600-00028-ND	14.00	0600-00028
Antenna, 915MHz, 1/2 Wave, 6", 2.5dBi, RPSMA	0600-00029-ND	14.00	0600-00029
Antenna, 915MHz, 1/4 Wave, 3.5", 1dBi, RPSMA	0600-00030-ND	14.00	0600-00030
Cable 5", RPSMA Bulkhead ~ Right Angle MMCX	1300-00023-ND	13.00	1300-00023
Antenna, 868MHz, 1/2 Wave, 7", 2dBi, Right Angle, MMCX Plug	0600-00020-ND	16.00	0600-00020
Antenna, 2.45GHz, 1/2 Wave, 5", 2dBi, Right Angle, MMCX Plug	0600-00002-ND	13.00	0600-00002
Antenna, 2.45GHz, 1/2 Wave, 5", 2dBi, MMCX Plug	0600-00008-ND	13.00	0600-00008
Antenna, 2.45GHz, 1/2 Wave, 7", 5dBi, Right Angle, RPSMA	0600-00010-ND	14.00	0600-00010
Antenna, 2.45GHz, 1/2 Wave, 7", 5dBi, MMCX Plug	0600-00011-ND	14.00	0600-00011
Antenna, 2.45GHz, 1/2 Wave, 7", 5dBi, Right Angle, MMCX Plug	0600-00012-ND	14.00	0600-00012
Antenna, 2.45GHz, 1/2 Wave, 5", 2dBi, Right Angle, RPSMA	0600-00014-ND	13.00	0600-00014
Antenna, 2.45GHz, Microstrip	2150-00006-ND	9.00	2150-00006
CL4424-100-232 Board Only, No Enclosure	2200-00076-ND	140.00	2200-00076
CL4490-100-232 Board Only, No Enclosure	2200-00122-ND	100.00	2200-00122
Antenna, 2.45GHz, 1/2 Wave, 7", 5dBi, Right Angle, u.FL Plug	0600-00039-ND	10.65	0600-00039
Antenna, 2.45GHz, 1/2 Wave, 5", 2dBi, Right Angle, u.FL Plug	0600-00040-ND	10.65	0600-00040
Surface Mount Adapter for Bluetooth BISM Modules	ACC-004L-ND	66.00	ACC-004
Audio Board with Winbond CODEC	ACC-005L-ND	204.57	ACC-005
Audio Board with OKI Multi Channel CODEC	ACC-007L-ND	234.82	ACC-007
White Nylon Fixing, 3.6mm (package of 1,000)	CWAA-00005-01-ND	170.77	CWAA-00005-01

Downconverting Mixers

Frequency (MHz) Min.	Frequency (MHz) Max.	Noise Frequency (dB)	Conv. Gain (dB)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
0.1	3,000	14	1	16-QFN	LT5512EUF-ND	7.38	5.27	4.34
0.1	3,000	14	1	16-QFN	LT5512EUF#PBF-ND◆	7.38	5.27	4.34
10	3,000	12.5	-0.5	16-QFN	LT5521EUF#PBF-ND◆ ***NEW!***	9.90	7.07	5.82
400	2,700	13.9	-0.1	16-QFN	LT5522EUF-ND	10.40	7.43	6.12
400	2,700	13.9	-0.1	16-QFN	LT5522EUF#PBF-ND◆	10.40	7.43	6.12
800	2,500	15	-1.7	16-QFN	LT5525EUF-ND	7.60	5.43	4.47
800	2,500	15.1	-1.9	16-QFN	LT5525EUF#PBF-ND◆ ***NEW!***	7.60	5.43	4.47
0.1	2,000	11	0.6	16-QFN	LT5526EUF#PBF-ND◆ ***NEW!***	6.80	4.86	4.00
400	3,700	12.5	2.3	16-QFN	LT5527EUF#PBF-ND◆	11.60	8.27	6.81
400	3,800	10.6	3.3	16-QFN	LT5557EUF#PBF-ND◆	11.90	8.48	7.02

◆ ***RoHS Compliant***

Upconverting Mixers

Frequency (MHz) Min.	Frequency (MHz) Max.	LO Drive (dB)	LO Leakage (dB)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
10	3,000	-10	36	16-TSSOP	LT5511EFE-ND	7.38	5.27	4.34
10	3,000	-10	36	16-TSSOP	LT5511EFE#PBF-ND◆	7.38	5.27	4.34
1,500	3,800	-1	39	24-QFN	LT5579IUH#PBF-ND◆ ***NEW!***	11.70	9.24	7.86

◆ ***RoHS Compliant***

NEW! Up/Down Converting Mixer

Frequency (MHz) Min.	Frequency (MHz) Max.	Noise Frequency (dB)	Conversion Gain (dB)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
0.01	4,000	9.3 / 10.1	2.4/2.6	8-DFN	LT5560EDD#PBF-ND	3.13	2.22	1.87

IQ Demodulators

Frequency (MHz) Min.	Frequency (MHz) Max.	IIP3 (dBm)	Noise Figure (dB)	LO Leakage (dB)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
1,500	2,500	20	16.8	-41	16-QFN	LT5515EUF#PBF-ND	13.50	9.64	7.94
800	1,500	21.5	12.8	-55	16-QFN	LT5516EUF#PBF-ND	14.75	10.54	8.68
40	900	21	12.4	-59	16-QFN	LT5517EUF#PBF-ND	14.75	10.54	8.68
40	500	-1	7.8	—	16-QFN	LT5546EUF#PBF-ND ***NEW!***	6.63	4.73	3.90
800	2,700	28	12.8	-60.8	16-QFN	LT5575EUF#PBF-ND	15.50	11.04	9.15

IQ Modulator

Frequency (MHz) Min.	Frequency (MHz) Max.	OIP3 (dB)	Noise Figure (dB)	LO Leakage (dB)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
600	1,100	22.9	-159.4	-43	16-QFN	LT5568EUF#PBF-ND ***NEW!***	10.70	7.60	6.31
600	1,100	22.9	-159.4	-43	16-QFN	LT5568-2EUF#PBF-ND ***NEW!***	10.70	7.60	6.31
1,500	2,500	21.6	-158.6	-39.4	16-QFN	LT5572EUF#PBF-ND ***NEW!***	9.90	7.05	5.84
620	1,100	21.7	-159	-42	16-QFN	LT5571EUF#PBF-ND	9.90	7.05	5.84

RF Log Detectors

Frequency (MHz) Min.	Frequency (MHz) Max.	Detect (dBm) Min.	Detect (dBm) Max.	Dynamic Range (dB)	Supply (mA)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
10	1,000	-76	14	83	13.5	8-DFN	LT5537EDDB#TRMPBFCT-ND†◆	6.94	6.20	5.58
10	1,000	-76	14	83	13.5	8-DFN	LT5537EDDB#TRMPBFTR-NDΔ◆	1810.00/500		
800	2,700	-80	2	80	14.7	8-MSOP	LT5504EMS8-ND	12.50	8.93	7.35
800	2,700	-75	5	75	14.7	8-MSOP	LT5504EMS8#PBF-ND◆ ***NEW!***	12.50	8.93	7.35
50	3,000	-63	2	60	7	SC70-6	LT5534ESC6#TRMPBFCT-ND†◆	10.30	9.20	8.28
50	3,000	-63	2	60	7	SC70-6	LT5534ESC6#TRMPBFTR-NDΔ◆	2700.00/500		
40	2,700	-52	13	60	26.5	10-DFN	LT5570IDD#PBF-ND◆ ***NEW!***	11.50	8.17	6.79

◆ ***RoHS Compliant*** † Cut Tape Δ Tape and Reel

RF Schottky Peak Detectors

Frequency (MHz) Min.	Frequency (MHz) Max.	Detect (dB) Min.	Detect (dB) Max.	Dynamic Range (dB)	I Supply (mA)	Package	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 25	Cut Tape Price Each 100
300	3,000	-28	18	46	0.5	SOT-23-5	LTC5505-1ES5#TRMPBFCT-ND◆	2.88	2.58	2.32
300	3,000	-28	18	46	0.5	SOT-23-5	LTC5505-1ES5#TRMPBFTR-NDΔ◆	635.00/500		
300	3,500	-32	12	44	0.5	SOT-23-5	LTC5505-2ES5#TRMCT-ND	2.88	2.58	2.32
300	3,500	-32	12	44	0.5	SOT-23-5	LTC5505-2ES5#TRMPBFCT-ND◆	2.88	2.58	2.32
300	3,500	-32	12	44	0.5	SOT-23-5	LTC5505-2ES5#TRMPBFTR-NDΔ◆	635.00/500		
0.1	1,000	-32	14	46	0.55	SOT-23-6	LTC5507ES6#TRMPBFCT-ND◆	3.58	3.20	2.88
0.1	1,000	-32	14	46	0.55	SOT-23-6	LTC5507ES6#TRMPBFTR-NDΔ◆	935.00/500		
300	7,000	-32	12	44	0.55	SC70-6	LTC5508ESC6#TRMPBFCT-ND◆	3.44	3.08	2.77
300	7,000	-32	12	44	0.55	SC70-6	LTC5508ESC6#TRMPBFTR-NDΔ◆	900.00/500		
300	12,000	-32	10	42	0.5	SOT-23-6	LTC5532ES6#TRMPBFCT-ND◆	3.61	3.23	2.91
300	12,000	-32	10	42	0.5	SOT-23-6	LTC5532ES6#TRMPBFTR-NDΔ◆	945.00/500		
300	11,000	-32	12	44	0.45	12-DFN	LTC5533EDE#PBF-ND◆ ***NEW!***	6.40	4.55	3.75

◆ ***RoHS Compliant*** Δ Tape and Reel

Low Power Transceivers

Frequency (MHz) Min.	Frequency (MHz) Max.	I Supply (mA)	Supply Voltage	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
1,800	2,700	23	1.8 ~ 5.25	24-SSOP	LT5500EGN-ND	6.38	4.55	3.75
70	400	25	1.8 ~ 5.25	24-SSOP	LT5502EGN-ND	10.25	6.81	5.36
70	400	25	1.8 ~ 5.25	24-SSOP	LT5502EGN#PBF-ND◆	10.25	6.81	5.36
40	500	26.5	1.8 ~ 5.25	16-QFN	LT5506EUF-ND	6.63	4.73	3.90
40	500	26.5	1.8 ~ 5.25	16-QFN	LT5506EUF#PBF-ND◆	6.63	4.73	3.90

◆ ***RoHS Compliant***

Power Amplifier Controllers

Frequency (MHz) Min.	Frequency (MHz) Max.	Control Loop Dynamic (kHz)	Supply Range (dB)	Voltage	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
850	2,000	250	40	2.7 ~ 6	8-MSOP	LTC1758-1EMS8-ND	3.38	2.25	1.70
850	2,000	250	40	2.7 ~ 6	10-MSOP	LTC1758-2EMS-ND	3.50	2.33	1.75
850	2,000	370	40	2.7 ~ 6	8-MSOP	LTC1957-1EMS8-ND	3.38	2.25	1.70
850	2,000	370	40	2.7 ~ 6	10-MSOP	LTC1957-2EMS-ND	3.50	2.33	1.75
300	2,000	450	45	2.7 ~ 6	8-MSOP	LTC4400-2EMS8-ND	3.25	2.32	1.91
300	2,700	250	45	2.7 ~ 6	TSOT-23-6	LTC4401-1ES6-ND	2.83	1.88	1.42
300	2,000	250	45	2.7 ~ 6	8-MSOP	LTC4401-2EMS8-ND	3.25	2.32	1.91

NEW! Amplifier / ADC Driver

Bandwidth (MHz)	OIP3 (dBm)	Noise Figure (dB)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
10 ~ 850	47	7.3	20-TSSOP	LT5514EFE#PBF-ND	10.38	7.41	6.10

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RF Connectors for OEM Antennas

Dimensions in mm

Fig. 1

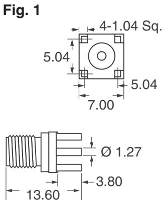

Fig. 2

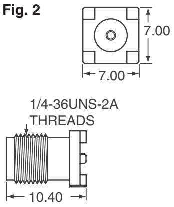

Fig. 3 ***NEW!***

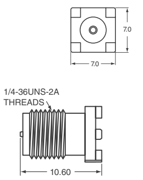

Fig. 4

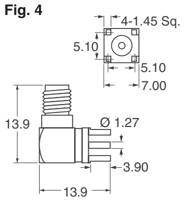

Fig. 5 ***NEW!***

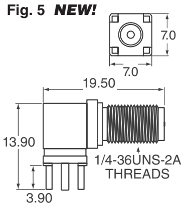

Fig. 6

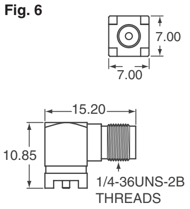

Fig. 7

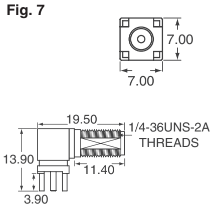

Fig. 8

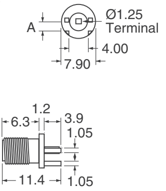

Fig. 9

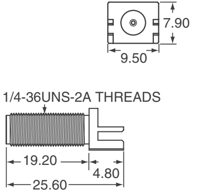

Fig. 10

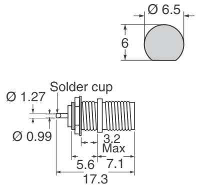

Fig. 11

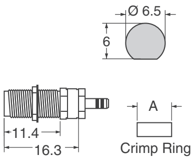

Fig. 12

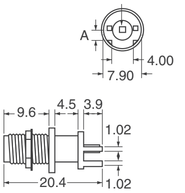

Fig. 13

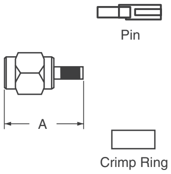

Fig. 14

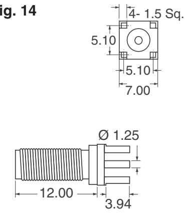

Fig. 15

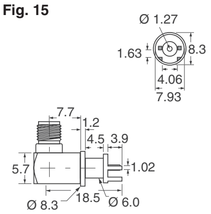

Fig. 16

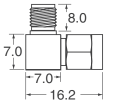

Fig. 17

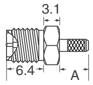

Fig. 18

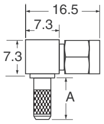

Fig. 19

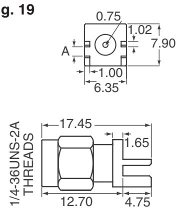

Fig. 20

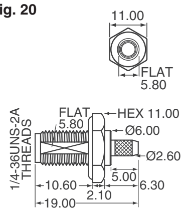

Fig. 21

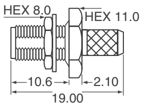

Fig. 22

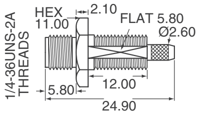

Fig. 23

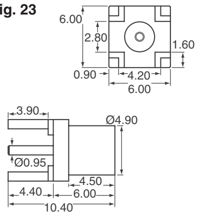

Fig. 24

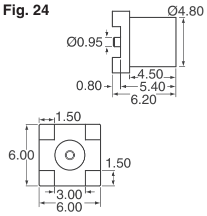

Fig. 25

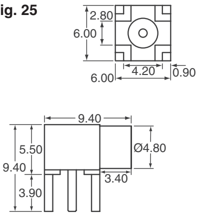

Fig. 26

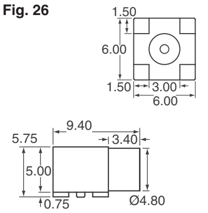

Fig. 27

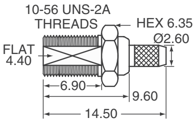

Fig. 28

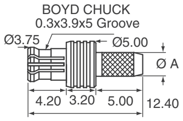

Fig. 29

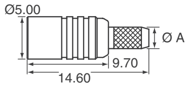

Fig. 30

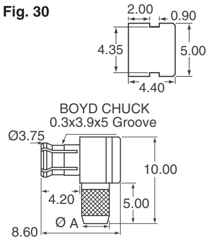

Fig. 31

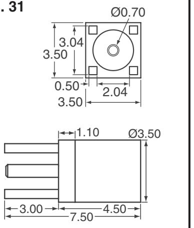

Fig. 32

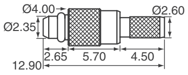

Fig. 33

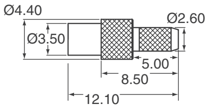

Fig. 34

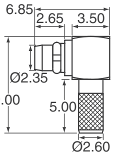

Fig. 35

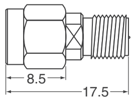

Fig. 36

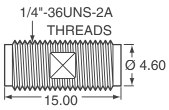

Fig. 37

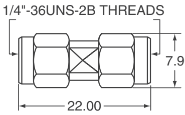

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	200	Linx Part No.
1	RP-SMA PCB Mount SMA Female PCB Mount	—	CONREVSMA001-ND CONSMA001-ND	2.92 3.69	2.68 3.38	2.29 2.90	2.09 2.64	CONREVSMA00 CONSMA001
2	SMA Female Surface Mount	—	CONSMA001-SMD-ND	4.50	4.12	3.53	3.22	CONSMA001-SMD
3	RP-SMA Female PCB Surface Mount	—	CONREVSMA001-SMD-ND ***NEW!***	4.04	3.70	3.17	2.89	CONREVSMA001-SMD
4	RP-SMA Right Angle PCB Mount SMA Female Right Angle PCB Mount	—	CONREVSMA002-ND CONSMA002-ND	3.31 3.69	3.03 3.38	2.59 2.90	2.37 2.64	CONREVSMA002 CONSMA002
5	RP-SMA Female Right Angle PCB Mount – Extended	—	CONREVSMA002-L-ND ***NEW!***	4.17	3.81	3.27	2.98	CONREVSMA002-L
6	SMA Female Right Angle Surface Mount	—	CONSMA002-SMD-ND	4.17	3.81	3.27	2.98	CONSMA002-SMD
7	SMA Female Right Angle PCB Mount – Extended	—	CONSMA002-L-ND	4.67	4.28	3.66	3.34	CONSMA002-L
8	RP-SMA Card Edge Mount Connector for 0.031" (.79mm) Thick Board RP-SMA Card Edge Mount Connector for 0.062" (1.57mm) Thick Board SMA Female Card Edge Mount Connector for 0.031" (.79mm) Thick Board SMA Female Card Edge Mount Connector for 0.062" (1.57mm) Thick Board	0.94 1.62 0.94 1.62	CONREVSMA003.031-ND CONREVSMA003.062-ND CONSMA003.031-ND CONSMA003.062-ND	3.08 3.64 3.48 3.48	2.82 3.33 3.19 3.19	2.42 2.85 2.73 2.73	2.20 2.60 2.49 2.49	CONREVSMA003.031 CONREVSMA003.062 CONSMA003.031 CONSMA003.062

(Continued)

RF Connectors for OEM Antennas *(Cont.)*

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each				Linx Part No.
				1	25	100	200	
9	SMA Female Card Edge Mount Conn for 0.031” (.79mm) Thick Board - Extended	—	CONSMA003.031-L-ND	5.78	5.28	4.53	4.13	CONSMA003.031-L
	SMA Female Card Edge Mount Conn for 0.062” (1.57mm) Thick Board - Extended		CONSMA003.062-L-ND	5.78	5.28	4.53	4.13	CONSMA003.062-L
10	RP-SMA Front Mount Bulkhead Receptacle	—	CONREVSMA004-ND	3.22	2.95	2.53	2.30	CONREVSMA004
—	RP-SMA Bulkhead Crimp Jack-Captive Contact with 8.5” (215.90mm) Cable	—	CONREVSMA005C08.5-ND	6.83	6.24	5.35	4.88	CONREVSMA005-C08.5
11	RP-SMA Female Bulkhead Mount Cable End Crimp for RG-174 Cable	9.5	CONREVSMA005-ND	4.46	4.08	3.50	3.19	CONREVSMA005
	SMA Female Bulkhead Mount Cable End Crimp for RG-58 Cable	12.7	CONSMA005-R58-ND	3.12	2.85	2.44	2.23	CONSMA005-R58
	SMA Female Bulkhead Mount Cable End Crimp for RG-174 Cable	9.5	CONSMA005-ND	4.67	4.28	3.66	3.34	CONSMA005
	SMA Female Bulkhead Mount Cable End Crimp for RG-178 Cable	6.0	CONSMA005-R178-ND	4.67	4.28	3.66	3.34	CONSMA005-R178
12	RP-SMA Female Edge Multi-Mount for 0.062” (1.57mm) Thick Board	1.63	CONREVSMA006.062-ND	4.20	3.84	3.29	3.00	CONREVSMA006.062
	SMA Female Edge Multi-Mount for 0.031” (.79mm) Thick Board	0.94	CONSMA006.031-ND	5.20	4.76	4.07	3.72	CONSMA006.031
	SMA Female Edge Multi-Mount for 0.062” (1.57mm) Thick Board	1.70	CONSMA006.062-ND	5.20	4.76	4.07	3.72	CONSMA006.062
13	RP-SMA Male Cable End Crimp for RG-174 Cable	16.80	CONREVSMA007-ND	3.12	2.85	2.44	2.23	CONREVSMA007
	SMA Male Cable End Crimp for RG-58 Cable	16.65	CONSMA007-R58-ND	2.31	2.12	1.81	1.65	CONSMA007-R58
	SMA Male Cable End Crimp for RG-174 Cable	14.65	CONSMA007-ND	2.31	2.12	1.81	1.65	CONSMA007
	SMA Male Cable End Crimp for RG-178 Cable	14.65	CONSMA007-R178-ND	2.31	2.12	1.81	1.65	CONSMA007-R178
14	RP-SMA Female PCB Mount - Extended	—	CONREVSMA008-ND	3.69	3.38	2.90	2.64	CONREVSMA008
	SMA Female PCB Mount - Extended		CONSMA008-ND	3.78	3.46	2.96	2.70	CONSMA008
15	RP-SMA Female Right Angle Edge Multi-Mount for 0.062” (1.57mm) Thick Board	—	CONREVSMA009-ND	5.20	4.76	4.07	3.72	CONREVSMA009
16	RP-SMA Male to RP-SMA Female Right Angle Adapter	—	CONREVSMA010-ND	6.20	5.58	3.40	3.10	CONREVSMA010
	SMA Male to SMA Female Right Angle Adapter		CONSMA010-ND	5.20	4.76	4.07	3.72	CONSMA010
17	RP-SMA Female Cable End Crimp for RG-174 Cable	5.0	CONREVSMA011-ND	2.36	2.16	1.85	1.69	CONREVSMA011
	SMA Female Cable End Crimp for RG-58 Cable	7.0	CONSMA011-R58-ND	2.77	2.53	2.17	1.98	CONSMA011-R58
	SMA Female Cable End Crimp for RG-174 Cable	5.0	CONSMA011-ND	2.77	2.53	2.17	1.98	CONSMA011
	SMA Female Cable End Crimp for RG-178 Cable	5.0	CONSMA011-R178-ND	2.77	2.53	2.17	1.98	CONSMA011-R178
18	RP-SMA Male Right Angle Cable End Crimp for RG-174 Cable	5.0	CONREVSMA012-ND	6.68	6.01	3.66	3.34	CONREVSMA012
	SMA Male Right Angle Cable End for RG-58 Cable	7.0	CONSMA012-R58-ND	3.36	3.08	2.64	2.40	CONSMA012-R58
	SMA Male Right Angle Cable End for RG-174 Cable	5.0	CONSMA012-ND	3.36	3.08	2.64	2.40	CONSMA012
	SMA Male Right Angle Cable End for RG-178 Cable	5.0	CONSMA012-R178-ND	3.36	3.08	2.64	2.40	CONSMA012-R178
19	RP-SMA Male Edge Mount for 0.031” (.79mm) Thick Board	0.94	CONREVSMA013.031-ND	7.54	6.90	5.91	5.39	CONREVSMA013.031
	RP-SMA Male Edge Mount for 0.062” (1.57mm) Thick Board	1.73	CONREVSMA013.062-ND	7.54	6.90	5.91	5.39	CONREVSMA013.062
	SMA Male Edge Mount for 0.031” (.79mm) Thick Board	0.94	CONSMA013.031-ND	4.94	4.52	3.87	3.53	CONSMA013.031
	SMA Male Edge Mount for 0.062” (1.57mm) Thick Board	1.73	CONSMA013.062-ND	4.94	4.52	3.87	3.53	CONSMA013.062
20	RP-SMA Female Bulkhead Rear Mount Cable End Crimp with O-Ring for RG-174 Cable	—	CONREVSMA014-ND	4.04	3.70	3.17	2.89	CONREVSMA014
	SMA Female Bulkhead Rear Mount Cable End Crimp with O-Ring for RG-174 Cable		CONSMA014-ND	4.67	4.28	3.66	3.34	CONSMA014
21	RP-SMA Female Bulkhead Mount Cable End Crimp with O-Ring for RG-58 Cable	—	CONREVSMA014-R58-ND	4.04	3.70	3.17	2.89	CONREVSMA014-R58
	RP-SMA Female Bulkhead Mount Cable End Crimp with O-Ring for RG-178 Cable		CONREVSMA014-R178-ND	4.04	3.70	3.17	2.89	CONREVSMA014-R178
	SMA Female Bulkhead Mount Cable End Crimp with O-Ring for RG-58 Cable		CONSMA014-R58-ND	4.17	3.81	3.27	2.98	CONSMA014-R58
	SMA Female Bulkhead Mount Cable End Crimp with O-Ring for RG-178 Cable		CONSMA014-R178-ND	4.67	4.28	3.66	3.34	CONSMA014-R178
22	RP-SMA Female Bulkhead Front Mount Cable End Crimp with O-Ring for RG-174 Cable	—	CONREVSMA015-ND	4.73	4.32	3.70	3.38	CONREVSMA015
	SMA Female Bulkhead Front Mount Cable End Crimp with O-Ring for RG-174 Cable		CONSMA015-ND	5.44	4.98	4.27	3.89	CONSMA015
23	MCX Female PCB Mount	—	CONMCX001-ND	3.03	2.77	2.38	2.17	CONMCX001
24	MCX Female PCB Surface Mount	—	CONMCX001-SMD-ND	3.40	3.11	2.66	2.43	CONMCX001-SMD
25	MCX Female Right Angle PCB Mount	—	CONMCX002-ND	3.69	3.38	2.90	2.64	CONMCX002
26	MCX Female Right Angle PCB Surface Mount	—	CONMCX002-SMD-ND	4.17	3.81	3.27	2.98	CONMCX002-SMD
—	MCX Female Edge Mount for 0.031” (.79mm) Thick Board	—	CONMCX003.031-ND	3.64	3.33	2.85	2.60	CONMCX003.031
	MCX Female Edge Mount for 0.062” (1.57mm) Thick Board		CONMCX003.062-ND	3.64	3.33	2.85	2.60	CONMCX003.062
	MCX Female Edge Mount for 0.031” (.79mm) Thick Board - Extended		CONMCX003.031-L-ND	4.62	4.23	3.62	3.30	CONMCX003.031-L
	MCX Female Edge Mount for 0.062” (1.57mm) Thick Board - Extended		CONMCX003.062-L-ND	4.62	4.23	3.62	3.30	CONMCX003.062-L
	MCX Female Bulkhead Front Mount with Solder Pot		CONMCX004-ND	4.62	4.23	3.62	3.30	CONMCX004
27	MCX Female Bulkhead Mount Cable End Crimp for RF-174 Cable	—	CONMCX005-ND	4.17	3.81	3.27	2.98	CONMCX005
	MCX Female Bulkhead Mount Cable End Crimp for RF-178 Cable		CONMCX005-R178-ND	4.17	3.81	3.27	2.98	CONMCX005-R178
28	MCX Male Cable End Crimp for RG-174 Cable	2.60	CONMCX007-ND	3.24	2.96	2.54	2.32	CONMCX007
	MCX Male Cable End Crimp for RG-178 Cable	2.70	CONMCX007-R178-ND	3.24	2.96	2.54	2.32	CONMCX007-R178
29	MCX Female Cable End Crimp for RG-174 Cable	2.60	CONMCX011-ND	3.02	2.77	2.37	2.16	CONMCX011
	MCX Female Cable End Crimp for RG-178 Cable	2.00	CONMCX011-R178-ND	3.03	2.77	2.38	2.17	CONMCX011-R178
30	MCX Male Right Angle Cable End for RG-174 Cable	2.60	CONMCX012-ND	3.48	3.19	2.73	2.49	CONMCX012
	MCX Male Right Angle Cable End for RG-178 Cable	2.00	CONMCX012-R178-ND	3.48	3.19	2.73	2.49	CONMCX012-R178
23	RP-MCX Female PCB Mount	—	CONREVMCX001-ND	2.61	2.39	2.05	1.87	CONREVMCX001
24	RP-MCX Female PCB Mount Surface Mount	—	CONREVMCX001-SMD-ND	3.20	2.93	2.51	2.29	CONREVMCX001-SMD
25	RP-MCX Female Right Angle PCB Mount - Extended	—	CONREVMCX002-L-ND	4.04	3.70	3.17	2.89	CONREVMCX002-L
26	RP-MCX Female Right Angle Surface Mount	—	CONREVMCX002-SMD-ND	3.94	3.60	3.09	2.82	CONREVMCX002-SMD
—	RP-MCX Female Edge Mount for 0.062” Thick Boards	—	CONREVMCX003.062-ND	2.89	2.64	2.27	2.07	CONREVMCX003.062
	RP-MCX Female Edge Mount for 0.062” Thick Boards - Extended		CONREVMCX003.062-L-ND	3.47	3.17	2.72	2.48	CONREVMCX003.062-L
27	RP-MCX Female Bulkhead Mount Cable End Crimp for RG174 Cable	—	CONREVMCX005-ND	2.89	2.64	2.27	2.07	CONREVMCX005
	RP-MCX Female Bulkhead Mount Cable End Crimp for RG178 Cable		CONREVMCX005-R178-ND	2.89	2.64	2.27	2.07	CONREVMCX005-R178
28	RP-MCX Male Cable End Crimp for RG174 Cable	2.60	CONREVMCX007-ND	3.12	2.85	2.44	2.23	CONREVMCX007
	RP-MCX Male Cable End Crimp for RG178 Cable	2.70	CONREVMCX007-R178-ND	3.12	2.85	2.44	2.23	CONREVMCX007-R178
29	RP-MCX Female Cable End Crimp for RG174 Cable	2.60	CONREVMCX011-ND	4.17	3.81	3.27	2.98	CONREVMCX011
	RP-MCX Female Cable End Crimp for RG178 Cable	2.00	CONREVMCX011-R178-ND	4.17	3.81	3.27	2.98	CONREVMCX011-R178
30	RP-MCX Male Right Angle Cable End Crimp for RG174 Cable	2.60	CONREVMCX012-ND	4.17	3.81	3.27	2.98	CONREVMCX012
	RP-MCX Male Right Angle Cable End Crimp for RG178 Cable	2.00	CONREVMCX012-R178-ND	4.17	3.81	3.27	2.98	CONREVMCX012-R178
31	MMCX Female PCB Mount	—	CONMMCX001-ND	3.03	2.77	2.38	2.17	CONMMCX001
—	MMCX Female Surface Mount	—	CONMMCX001-SMD-ND	3.40	3.11	2.66	2.43	CONMMCX001-SMD
	MMCX Female Right Angle PCB Mount		CONMMCX002-ND	3.48	3.19	2.73	2.49	CONMMCX002
	MMCX Female Right Angle Surface Mount		CONMMCX002-SMD-ND	3.92	3.59	3.07	2.80	CONMMCX002-SMD
32	MMCX Male Cable End Crimp for RG174 Cable	—	CONMMCX007-ND	2.56	2.34	2.01	1.83	CONMMCX007
	MMCX Male Cable End Crimp for RG178 Cable		CONMMCX007-178-ND	2.56	2.34	2.01	1.83	CONMMCX007-178
33	MMCX Female Cable End Crimp for RG174 Cable	—	CONMMCX011-ND	3.24	2.96	2.54	2.32	CONMMCX011
	MMCX Female Cable End Crimp for RG178 Cable		CONMMCX011-R178-ND	3.24	2.96	2.54	2.32	CONMMCX011-178
34	MMCX Male Right Angle Cable End Crimp for RG174 Cable	—	CONMMCX012-ND	3.69	3.38	2.90	2.64	CONMMCX012
	MMCX Male Right Angle Cable End Crimp for RG178 Cable		CONMMCX012-178-ND	3.69	3.38	2.90	2.64	CONMMCX012-178
35	SMA Male to RP-SMA Female Adapter	—	ADP-SMAM-RPSF-ND	6.32	5.78	4.95	—	ADP-SMAM-RPSF
36	SMA Female to SMA Female Adapter	—	ADP-SMAF-SMAF-ND	4.73	4.32	3.70	3.38	ADP-SMAF-SMAF
37	SMA Male to SMA Male Adapter	—	ADP-SMAM-SMAM-ND	5.09	4.66	3.99	3.64	ADP-SMAM-SMAM
—	Crimper Kit for RG58/59/62	—	CTK-58-01-ND	119.00	—	—	—	CTK-58-01
	Crimper Kit for RG58/59/62, RG174/179		CTK-174-01-ND	124.00	—	—	—	CTK-174-01
	Crimper Kit for RG58/59/62, RG174/179 and RG178 Die		CTK-174-02-ND	124.00	—	—	—	CTK-174-02

GPS Antennas

Dimensions in mm

Fig. 1 ***NEW!***

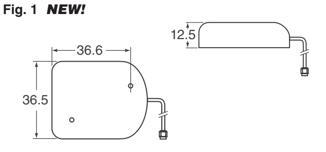

Fig. 2

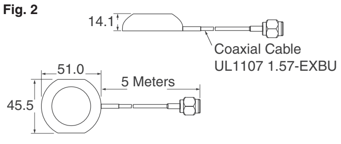

SH Series: The SH Series antennas combine superior performance, advanced operational and protection features and low power consumption. This makes them ideal for telematics, fleet management, navigation, tracking and other applications that require a compact, high performance GPS antenna.

UC Series: The UC Series offers outstanding value in a compact form factor. A wide operating voltage, temperature range and compact housing with dual mounting options suit the UC to a wide variety of cost-sensitive applications.

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	Compact GPS Antenna with SMA	1575.42	ANT-GPS-SH-SMA-ND ***NEW!***	25.81	23.60	20.21	ANT-GPS-SH-SMA
	Compact GPS Antenna with MCX	1575.42	ANT-GPS-SH-MCX-ND ***NEW!***	25.81	23.60	20.21	ANT-GPS-SH-MCX
	Compact GPS Antenna with MMX	1575.42	ANT-GPS-SH-MMX-ND ***NEW!***	25.81	23.60	20.21	ANT-GPS-SH-MMX
2	High Performance GPS with SMA	1575.42	ANT-GPS-UC-SMA-ND	30.19	27.60	24.32	ANT-GPS-UC-SMA
—	Antenna Base for GPS RP-SMA	—	ANT-DB2-RMG-RP-RP-SM-ND	39.08	35.73	29.95	ANT-DB2-RMG-RP-RP-SM
	Antenna Base for GPS SMA	—	ANT-DB2-RMG-SM-RP-SM-ND	39.08	35.73	29.95	ANT-DB2-RMG-SM-RP-SM

Magnetic Mount Antennas

Dimensions in mm

Mag-1 Magnetic Bases:

Available in three base diameters, each MAG-1 Series base features a powerful magnet for reliable mounting on metal surfaces. They also feature a soft, rubber protective cover to help protect painted surfaces, such as those on automobiles. The base accepts a diverse range of antenna element styles and frequencies.

Mag-1 Antenna Elements:

These cosmetically attractive elements are designed to fit MAG-1 Series bases. Ideal for mobile and cellular systems, they are available in a range of styles and center frequencies and are intended to offer outstanding performance and durability even in harsh environments.

Fig. 1

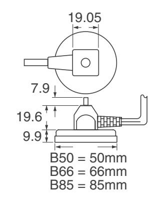

(Cable: 13.1 ft. - RG-174-RP-SMA)

Fig. 2

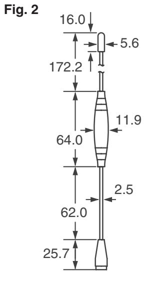

Fig. 3

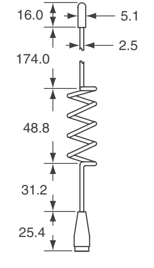

Fig. 4

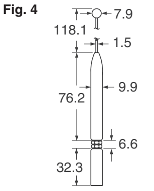

Fig. 5

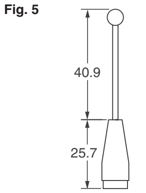

Fig. 6

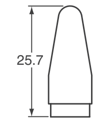

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	50mm MAG-1 Magnetic Base	—	ANT-MAG-B50-RPS-ND	5.78	5.28	4.40	ANT-MAG-B50-RPS
	66mm MAG-1 Magnetic Base	—	ANT-MAG-B66-RPS-ND	6.49	5.94	4.95	ANT-MAG-B66-RPS
	85mm MAG-1 Magnetic Base	—	ANT-MAG-B85-RPS-ND	7.23	6.61	5.50	ANT-MAG-B85-RPS
2	Dual-Band Whip-Element	916, 1.7 ~ 1.8GHz	ANT-ELE-S01-008-ND	3.41	3.12	2.90	ANT-ELE-S01-008
3	Whip-Element	916	ANT-ELE-S01-005-ND	2.92	2.56	2.25	ANT-ELE-S01-005
4	High Gain Whip-Element	916	ANT-ELE-S01-006-ND	3.52	3.08	2.70	ANT-ELE-S01-006
5	Short Whip-Element	916	ANT-ELE-S01-010-ND	2.86	2.51	2.22	ANT-ELE-S01-010
6	Stub Element	2.4GHz	ANT-ELE-S01-011-ND	2.82	2.47	2.20	ANT-ELE-S01-011

Yagi Antennas

Dimensions in mm

Antenna Factor offers Yagi antennas in models covering frequencies from 400 to 2.4GHz. The antennas are designed for long-distance directional communication and can greatly enhance the performance of RF links, such as WLAN and WIFI.

Made of stainless steel and featuring sturdy mast mounts, these rugged antennas are constructed to withstand the stress of long-term use. All antennas are designed for 50Ω system matches with maximum inputs of 100W.

Fig. 1

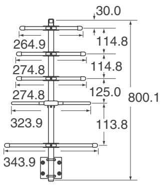

Fig. 2

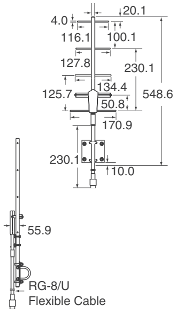

Fig. 3

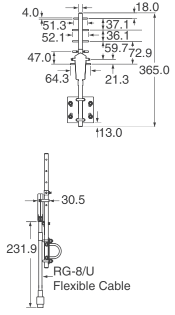

Fig. 4

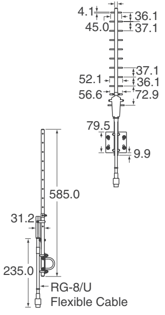

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	418MHz 5-Element Yagi	418	ANT-418-YG5-N-ND	84.35	77.12	69.95	ANT-418-YG5-N
2	916MHz 5-Element Yagi	916	ANT-916-YG5-N-ND	84.35	77.12	69.95	ANT-916-YG5-N
3	2.4GHz 6-Element Yagi	2442	ANT-2.4-YG6-N-ND	84.35	77.12	69.95	ANT-2.4-YG6-N
4	2.4GHz 12-Element Yagi	2442	ANT-2.4-YG12-N-ND	120.23	109.92	89.96	ANT-2.4-YG12-N

Surface Mount Antennas

Dimensions in mm

MHW Series:

This antenna style provides a clever solution to the unique needs of difficult environments such as a vehicle. Designed to mount directly onto nonconductive interior surfaces such as wallboard, windows or a rear view mirror, these compact antennas are easily concealed, minimizing potential theft.

HDP Series:

A compact, center-fed antenna that achieves efficient operation at either or both of two frequency bands. Its durable, unobtrusive housing attaches permanently with integral adhesive to flat, nonconductive surfaces.

VDP Series:

Similar to the HDP Series but the cable enters from the bottom to facilitate vertical orientation. Also, this compact, center-fed antenna achieves efficient operation at any or all of three frequency bands. Attaches permanently with integral adhesive to flat nonconductive surfaces.

Fig. 1

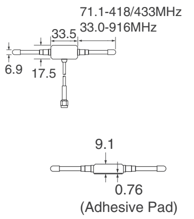

Fig. 2

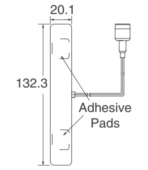

Fig. 3

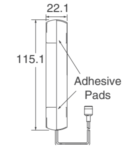

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	Compact Center-Fed Dipole	418	ANT-418-MHW-RPS-S-ND	9.94	8.70	7.94	ANT-418-MHW-RPS-S
		433	ANT-433-MHW-RPS-S-ND	9.94	8.70	7.94	ANT-433-MHW-RPS-S
		916	ANT-916-MHW-RPS-S-ND	9.94	8.70	7.94	ANT-916-MHW-RPS-S
2	Dual-Band Surface Mount	860 ~ 960, 1770 ~ 1880	ANT-DB1-HDP-RPS-ND	8.07	7.38	6.75	ANT-DB1-HDP-RPS
3	Tri-Band Surface Mount	860 ~ 960, 1770 ~ 1880, 2400	ANT-DB1-VDP-RPS-ND	9.68	8.47	7.44	ANT-DB1-VDP-RPS

Antennas

Dimensions in mm

Fig. 1

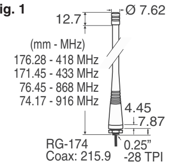

Fig. 2

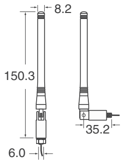

Fig. 3

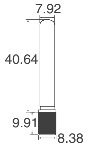

Fig. 4

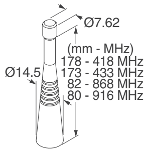

Fig. 5

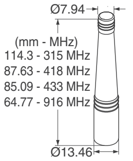

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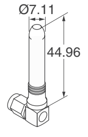

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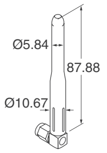

Fig. 8

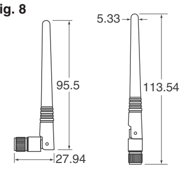

Fig. 9

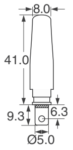

Fig. 10

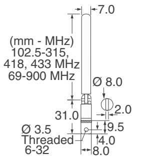

Fig. 11

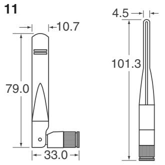

Fig. 12

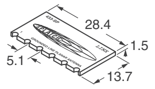

Fig. 13 ***NEW!***

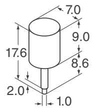

Fig. 14

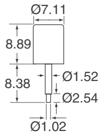

Fig. 15

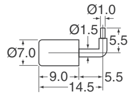

Fig. 16

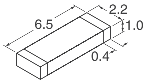

Fig. 17

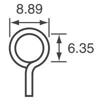

Fig. 18

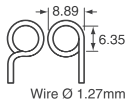

Fig. 19

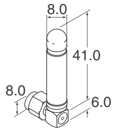

Fig. 20 ***NEW!***

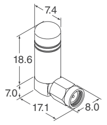

Fig. 21

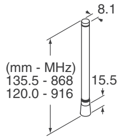

Fig. 22

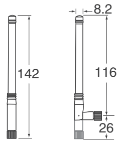

Fig. 23

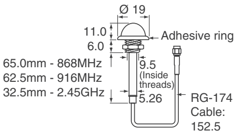

Fig.	Description	Frequency (MHz)	Digi- Key Part No.	Price Each			Antenna Factor Part No.
				1	25	100	
1	Permanent Mount 1/4 Wave Whip	418	ANT-418-PW-QW-ND◆	6.83	6.24	5.07	ANT-418-PW-QW
		433	ANT-433-PW-QW-ND◆	6.70	6.13	4.97	ANT-433-PW-QW
		868	ANT-868-PW-QW-ND◆	6.56	6.00	4.84	ANT-868-PW-QW
		916	ANT-916-PW-QW-ND◆	6.44	5.89	4.79	ANT-916-PW-QW
2	1/2 Wave Whip with RG-178 Cable	868	ANT-868-PML-ND◆	7.61	6.96	5.50	ANT-868-PML
		916	ANT-916-PML-ND◆	7.61	6.96	5.66	ANT-916-PML
3	Reduced Height 1/4 Wave Whip	315	ANT-315-CW-RH-ND◆	6.32	5.78	4.36	ANT-315-CW-RH
		418	ANT-418-CW-RH-ND◆	6.32	5.78	4.36	ANT-418-CW-RH
		433	ANT-433-CW-RH-ND◆	6.32	5.78	4.36	ANT-433-CW-RH
		916	ANT-916-CW-RH-ND◆	6.32	5.78	4.36	ANT-916-CW-RH
		2.45GHz	ANT-2.4-CW-RH-ND◆	4.74	4.34	3.64	ANT-2.4-CW-RH-RPS
		2.45GHz	ANT-2.4-CW-RH-SMA-ND◆	4.74	4.34	3.64	ANT-2.4-CW-RH-SMA
4	RP-SMA 1/4 Wave Whip	418	ANT-418-CW-QW-ND◆	7.88	7.20	5.74	ANT-418-CW-QW
		433	ANT-433-CW-QW-ND◆	7.70	7.04	5.61	ANT-433-CW-QW
		868	ANT-868-CW-QW-ND◆	7.53	6.88	5.48	ANT-868-CW-QW
		916	ANT-916-CW-QW-ND◆	7.35	6.72	5.36	ANT-916-CW-QW
5	RP-SMA Reduced Height 1/4 Wave Whip	315	ANT-315-CW-HD-ND◆	7.61	6.96	5.50	ANT-315-CW-HD
		418	ANT-418-CW-HD-ND◆	7.61	6.96	5.50	ANT-418-CW-HD
		433	ANT-433-CW-HD-ND◆	7.61	6.96	5.50	ANT-433-CW-HD
		916	ANT-916-CW-HD-ND◆	7.61	6.96	5.50	ANT-916-CW-HD
6	1/4 Wave Whip Right Angle	315	ANT-315-CW-RCS-ND◆	6.46	5.91	4.99	ANT-315-CW-RCS
	RP-SMA Right Angle	916	ANT-916-CW-RCS-ND◆	6.46	5.91	5.25	ANT-916-CW-RCS
		2.4GHz	ANT-2.4-CW-RCS-ND◆	6.46	5.91	5.25	ANT-2.4-CW-RCS
7	1/4 Wave Whip	916	ANT-916-CW-RCL-ND◆	7.04	6.44	5.50	ANT-916-CW-RCL
	1/2 Wave Whip RP-SMA	2.4GHz	ANT-2.4-CW-RCL-ND◆	7.04	6.44	5.50	ANT-2.4-CW-RCL
8	1/2 Wave Whip RP-SMA	2.4GHz	ANT-2.4-CW-RCT-RP-ND◆	8.47	7.75	6.50	ANT-2.4-CW-RCT-RP
9	Permanent Mount Reduced Height 1/4 Wave Whip	315	ANT-315-PW-LP-ND◆	2.03	1.86	1.79	ANT-315-PW-LP
		418	ANT-418-PW-LP-ND◆	2.03	1.86	1.79	ANT-418-PW-LP
		433	ANT-433-PW-LP-ND◆	2.03	1.86	1.79	ANT-433-PW-LP
		916	ANT-916-PW-LP-ND◆	2.03	1.86	1.79	ANT-916-PW-LP
10	Permanent Mount Swivel Angle 1/4 Wave Whip	315	ANT-315-PW-RA-ND◆	3.45	3.11	2.89	ANT-315-PW-RA
		418	ANT-418-PW-RA-ND◆	3.45	3.11	2.89	ANT-418-PW-RA
		433	ANT-433-PW-RA-ND◆	3.45	3.11	2.89	ANT-433-PW-RA
		916	ANT-916-PW-RA-ND◆	3.45	3.11	2.89	ANT-916-PW-RA
11	1/2 Wave Swivel RP-SMA	2.45/5.8GHz	ANT-DB1-RAF-RPS-ND◆	10.28	9.00	7.87	ANT-DB1-RAF-RPS
12	Planar Antenna (SMT)	315	ANT-315-SP-ND◆	2.08	1.82	1.75	ANT-315-SP
		418	ANT-418-SP-ND	2.08	1.82	1.75	ANT-418-SP
		433	ANT-433-SP_-ND◆	2.08	1.82	1.75	ANT-433-SP_
		868	ANT-868-SP-ND◆	2.08	1.82	1.75	ANT-868-SP
		916	ANT-916-SP-ND◆	2.08	1.82	1.75	ANT-916-SP
13	1/4 Wave, JJB Permanent Ultra-Miniature, Straight	868	ANT-868-JJB-ST-ND ***NEW!***	1.72	1.57	1.35	ANT-868-JJB-ST
14	JJB Permanent Ultra-Miniature, Straight	916	ANT-916-JJB-ST-ND◆	1.96	1.72	1.50	ANT-916-JJB-ST
		2.45GHz	ANT-2.4-JJB-ST-ND◆	1.72	1.57	1.50	ANT-2.4-JJB-ST
15	JJB Permanent Ultra-Miniature, Right Angle	868	ANT-868-JJB-RA-ND◆ ***NEW!***	1.72	1.57	1.35	ANT-868-JJB-RA
		916	ANT-916-JJB-RA-ND◆	1.96	1.72	1.50	ANT-916-JJB-RA
		2.45GHz	ANT-2.4-JJB-RA-ND◆	1.72	1.57	1.50	ANT-2.4-JJB-RA
—	Ultra-Compact Chip Antenna	868	ANT-868-CHPCT-ND*◆	4.97	4.55	3.90	ANT-868-CHP
		868	ANT-868-CHPTR-ND†◆		11331.00/3,000		ANT-868-CHP
		916	ANT-916-CHPCT-ND*◆	4.97	4.55	3.90	ANT-916-CHP
		916	ANT-916-CHPTR-ND†◆		11331.00/3,000		ANT-916-CHP

◆ ***RoHS Compliant*** * Cut Tape † Tape and Reel

(Continued)

Antennas *(Cont.)*

Fig.	Description	Frequency (MHz)	Digi- Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
16	Ultra-Compact Chip Antenna	2.45GHz	ANT-2.45-CHPCT-ND*◆ ANT-2.45-CHPTR-ND†◆	1.51	1.38 1710.00/1,500	1.34	ANT-2.45-CHP ANT-2.45-CHP
17	Helical Through-Hole Antenna	315 418 433 916	ANT-315-HETH-ND◆ ANT-418-HETH-ND◆ ANT-433-HETH-ND◆ ANT-916-HETH-ND◆	.88 .88 .88 .88	.75 .75 .75 .75	.67 .67 .67 .67	ANT-315-HETH ANT-418-HETH ANT-433-HETH ANT-916-HETH
18	Helical SMA Antenna	418	ANT-418-HESM-ND◆	.88	.75	.67	ANT-418-HESM
19	1/4 Wave Whip Right Angle	315 418 433 2.45GHz	ANT-315-CW-RAH-ND◆ ANT-418-CW-RAH-ND◆ ANT-433-CW-RAH-ND◆ ANT-2.4-CW-RAH-RPS-ND◆	8.47 8.47 8.47 4.88	7.75 7.75 7.75 4.47	6.20 6.20 6.20 3.74	ANT-315-CW-RAH ANT-315-CW-RAH ANT-433-CW-RAH ANT-2.4-CW-RAH-RPS
20	1/4 Wave Right Angle with SMA	2.45GHz	ANT-2.4-CW-RAH-SMA-ND ***NEW!***	4.88	4.47	3.83	ANT-2.4-CW-RAH-SMA
21	1/2 Wave Whip RP-SMA	868 916	ANT-868-CW-HW-ND◆ ANT-916-CW-HW-ND◆	8.49 8.49	7.76 7.76	6.25 6.25	ANT-868-CW-HW ANT-916-CW-HW
22	1/4 Wave Whip RP-SMA	315 418 433	ANT-315-CW-HWR-RPS-ND◆ ANT-418-CW-HWR-RPS-ND◆ ANT-433-CW-HWR-RPS-ND◆	9.98 9.98 9.98	9.12 9.12 9.12	7.64 7.64 7.64	ANT-315-CW-HWR-RPS ANT-418-CW-HWR-RPS ANT-433-CW-HWR-RPS
	1/2 Wave Whip RP-SMA	868 916	ANT-868-CW-HWR-RPS-ND◆ ANT-916-CW-HWR-RPS-ND◆	9.98 9.98	9.12 9.12	7.64 7.64	ANT-868-CW-HWR-RPS ANT-916-CW-HWR-RPS
	1/4 Wave Whip SMA	315 418 433	ANT-315-CW-HWR-SMA-ND◆ ANT-418-CW-HWR-SMA-ND◆ ANT-433-CW-HWR-SMA-ND◆	9.98 9.98 9.98	9.12 9.12 9.12	7.64 7.64 7.64	ANT-315-CW-HWR-SMA ANT-418-CW-HWR-SMA ANT-433-CW-HWR-SMA
	1/2 Wave Whip SMA	868 916	ANT-868-CW-HWR-SMA-ND◆ ANT-916-CW-HWR-SMA-ND◆	9.98 9.98	9.12 9.12	7.64 7.64	ANT-868-CW-HWR-SMA ANT-916-CW-HWR-SMA
23	Permanent Mount 1/4 Wave SMA	868 916 2.45GHz	ANT-868-WRT-SMA-ND◆ ANT-916-WRT-SMA-ND◆ ANT-2.4-WRT-SMA-ND◆	12.22 12.22 12.22	11.17 11.17 11.17	10.47 10.47 10.47	ANT-868-WRT-SMA ANT-916-WRT-SMA ANT-2.4-WRT-SMA
	Permanent Mount 1/4 Wave RP-SMA	868 916 2.45GHz	ANT-868-WRT-RPS-ND◆ ANT-916-WRT-RPS-ND◆ ANT-2.4-WRT-RPS-ND◆	12.22 12.22 12.22	11.17 11.17 11.17	10.47 10.47 10.47	ANT-868-WRT-RPS ANT-916-WRT-RPS ANT-2.4-WRT-RPS
Evaluation Kit for CHP Antenna ……………………………………			AEK-2.45-CHP-ND	18.95	—	—	AEK-2.45-CHP

◆ ***RoHS Compliant*** * Cut Tape † Tape and Reel

OEM Modules

FCC Pre-Certified OEM Products

Dimensions in mm

Fig. 1

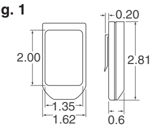

Fig. 2

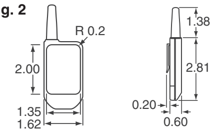

Fig. 3

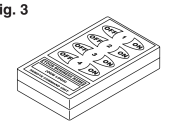

Fig. 4

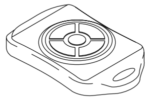

Fig. 5

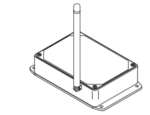

All units below are pre-approved with the FCC to allow immediate integration and sale in most OEM product.

Compact Handheld Transmitter: Compact 8-buttons handheld remote is capable of up to 150 feet transmission range. The keypad and labeling can be modified to meet specific customer requirements. Can create up to 1,024 distinct transmitter-receiver relationships.

Long-Range Handheld Transmitter: Compact 8-buttons handled remote is capable of up to 300+ feet transmission range. The keypad and labeling can be modified to meet specific customer requirements. Can create up to 1,024 distinct transmitter-receiver relationships. External antenna attached.

Handheld Transmitter: Compact 8-button handheld remote is capable of 100+ feet transmission ranges. The transmission can be decoded using a standard decoder IC, microcontroller or matching Linx function module. Selectable addressing provides security and allows distinct TX/RX relationships.

Keyfob Transmitter: This tiny keyfob features outstanding range performance and is configured with 1 to 5 buttons for a variety of OEM applications.

1 to 4 Position Relay Function Module: Provides 4 latched relay outputs which are capable of switching external AC or DC powered loads up to 5 amps. Selectable addressing.

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each 1	25	100	Linx Part No.
1	Compact Handheld Transmitter	418 433	CMD-HHCP-418-ND CMD-HHCP-433-ND	29.40 29.40	26.88 26.88	23.52 23.52	CMD-HHCP-418 CMD-HHCP-433
		315 418 433	CMD-HHCP-315-MD-ND◆ CMD-HHCP-418-MD-ND◆ CMD-HHCP-433-MD-ND◆	30.45 30.45 30.45	27.84 27.84 27.84	23.49 23.49 23.49	CMD-HHCP-315-MD CMD-HHCP-418-MD CMD-HHCP-433-MD
		315 418 433	OTX-315-HH-CP8-MS-ND◆ OTX-418-HH-CP8-MS-ND◆ OTX-433-HH-CP8-MS-ND◆	43.16 43.16 43.16	39.46 39.46 39.46	36.99 36.99 36.99	OTX-315-HH-CP8-MS OTX-418-HH-CP8-MS OTX-433-HH-CP8-MS
2	Long-Range Handheld Transmitter	315 418 433	CMD-HHLR-315-ND CMD-HHLR-418-ND CMD-HHLR-433-ND	32.41 32.41 32.41	29.64 29.64 29.64	26.49 26.49 26.49	CMD-HHLR-315 CMD-HHLR-418 CMD-HHLR-433
		315 418 433	CMD-HHLR-315-MD-ND◆ CMD-HHLR-418-MD-ND◆ CMD-HHLR-433-MD-ND◆	33.46 33.46 33.46	30.60 30.60 30.60	25.82 25.82 25.82	CMD-HHLR-315-MD CMD-HHLR-418-MD CMD-HHLR-433-MD
		315 418 433	OTX-315-HH-LR8-MS-ND◆ OTX-418-HH-LR8-MS-ND◆ OTX-433-HH-LR8-MS-ND◆	45.33 45.33 45.33	41.44 41.44 41.44	38.85 35.49 38.85	OTX-315-HH-LR8-MS OTX-418-HH-LR8-MS OTX-433-HH-LR8-MS
3	Handheld Transmitter	315 418 433	CMD-HHTX-315-ND CMD-HHTX-418-ND CMD-HHTX-433-ND	32.03 32.03 32.03	29.28 29.28 29.28	25.08 25.08 25.08	CMD-HHTX-315 CMD-HHTX-418 CMD-HHTX-433
4	1 to 5 Button FCC Precertified Keyfob Transmitter	315 418 433	CMD-KEY5-315-ND◆ CMD-KEY5-418-ND◆ CMD-KEY5-433-ND◆	19.60 19.60 19.60	18.62 18.62 18.62	17.08 17.08 17.08	CMD-KEY5-315 CMD-KEY5-418 CMD-KEY5-433
		315 418 433	OTX-315-HH-KF5-MS-ND◆ OTX-418-HH-KF5-MS-ND◆ OTX-433-HH-KF5-MS-ND◆	21.40 21.40 21.40	20.33 20.33 20.33	20.07 20.07 20.07	OTX-315-HH-KF5-MS OTX-418-HH-KF5-MS OTX-433-HH-KF5-MS
5	1 to 4 Position Relay Function Module	315 418 433	FCTN-RLY4XX-315-ND◆ FCTN-RLY4-418-ND FCTN-RLY4XX-433-ND	59.85 59.85 59.85	54.72 54.72 54.72	49.96 49.96 49.96	FCTN-RLY4-315 FCTN-RLY4-418 FCTN-RLY4-433

◆ ***RoHS Compliant***

Evaluation Kits and Accessories

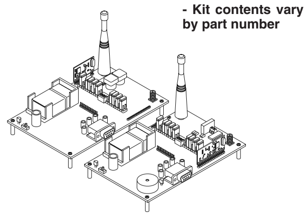

HP Series Shown - Kit contents vary by part number

These kits provide the most complete opportunity to evaluate the Linx module series of your choice and then begin the integration of it into your own design.

Basic Evaluation Kit:
This kit is a quick way to evaluate the field performance of Linx products. The kit does not allow for the level of testing and interface possible with Master Kits but provides a cost-effective starting point.

Master Evaluation/Development System Kit:
The kits not only allow evaluation of the module series you have chosen, but also speed the development of your own design via on-board prototyping area and breakout headers.

Description	MHz	Digi-Key Part No.	Price Each	Linx Part No.
Basic Evaluation Kits				
SC Series	916	EVAL-916-SC-P-ND	199.00	EVAL-916-SC
KH Series	315 433	EVAL-315-KH-ND EVAL-433-KH-ND	149.00 149.00	EVAL-315-KH EVAL-433-KH
KH2 Series	315 418 433	EVAL-315-KH2-ND◆ EVAL-418-KH2-ND◆ EVAL-433-KH2-ND◆	149.00 149.00 149.00	EVAL-315-KH2 EVAL-418-KH2 EVAL-433-KH2
ES Series	916	EVAL-916-ES-ND	179.00	EVAL-916-ES
Keyfob Series	418	EVAL-418-KEY5-ND	119.00	EVAL-418-KEYS
HHCP Series	418	EVAL-418-HHCP-ND	129.00	EVAL-418-HHCP
HHLR Series	418	EVAL-418-HHLR-ND	129.00	EVAL-418-HHLR
LR Series	315 418 433	EVAL-315-LR-ND EVAL-418-LR-ND EVAL-433-LR-ND	139.00 139.00 139.00	EVAL-315-LR EVAL-418-LR EVAL-433-LR-S
LT Series	315 418 433	EVAL-315-LT-ND◆ EVAL-418-LT-ND◆ EVAL-433-LT-ND◆	149.00 149.00 149.00	EVAL-315-LT EVAL-418-LT EVAL-433-LT
LC Series	315 418 433	EVAL-315-LC-ND◆ EVAL-418-LC-ND◆ EVAL-433-LC-ND◆	139.00 139.00 139.00	EVAL-315-LC EVAL-418-LC EVAL-433-LC
Master Evaluation / Development System Kits				
HP-3 Series	900	MDEV900HP3PPSRS23-ND	299.00	MDEV-900-HP3-PPS-RS232
ES Series	916	MDEV-916-ES-ND	299.00	MDEV-916-ES
SC-P Series	916	MDEV-916-SC-P-ND	299.00	MDEV-916-SC-P
SC-S Series	916	MDEV-916-SC-S-ND	299.00	MDEV-916-SC-S
QS Series	—	MDEV-USB-QS-ND	129.00	MDEV-USB-QS
MS Series	315 418 433	MDEV-315-HH-KF5-MS-ND MDEV-418-HH-KF5-MS-ND MDEV-433-HH-KF5-MS-ND	149.95 149.95 149.95	MDEV-315-HH-KF5-MS MDEV-418-HH-KF5-MS MDEV-433-HH-KF5-MS
	315 418 433	MDEV-315-HH-CP8-MS-ND◆ MDEV-418-HH-CP8-MS-ND◆ MDEV-433-HH-CP8-MS-ND◆	149.95 149.95 149.95	MDEV-315-HH-CP8-MS MDEV-418-HH-CP8-MS MDEV-433-HH-CP8-MS
	315 418 433	MDEV-315-HH-LR8-MS-ND◆ MDEV-418-HH-LR8-MS-ND MDEV-433-HH-LR8-MS-ND◆	149.95 149.95 149.95	MDEV-315-HH-LR8-MS MDEV-418-HH-LR8-MS MDEV-433-HH-LR8-MS
	418	MDEV-LICAL-MS-ND	249.00	MDEV-LICAL-MS
HS Series	418	MDEV-LICAL-HS-ND	299.00	MDEV-LICAL-HS
Accessories — RoHS Compliant				
CR2032 Coin Battery Holder	—	BATHLD-001-ND	.53	BATHLD-001

◆ ***RoHS Compliant***

RF Modules / Broadband Amplifiers
Evaluation Kits / Interface ICs

Dimensions in mm

Fig. 1

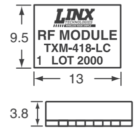

Fig. 2

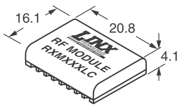

Fig. 3

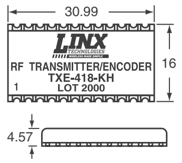

Fig. 4

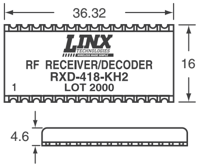

Fig. 5

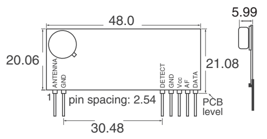

Fig. 6

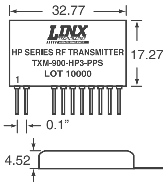

Fig. 7

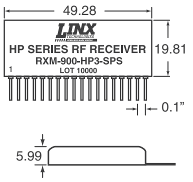

Fig. 8

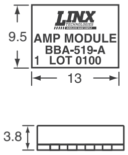

Fig. 9

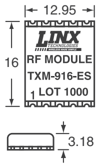

Fig. 10

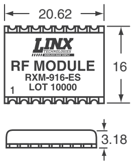

Fig. 11

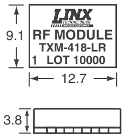

Fig. 12

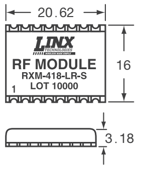

Fig. 13

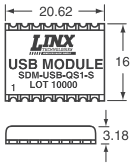

Fig. 14

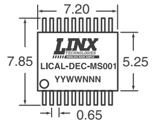

Fig. 15

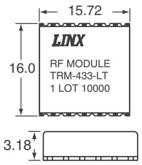

LC Series – Ultra-Compact Low-Cost RF TX/RX Modules: Operating in the 260 ~ 470MHz band, these tiny RF modules provide a complete and cost-effective solution for the wireless transfer of serial control and command information over distances in excess of 300 ft.
Tx: • 2.7 ~ 5.2VDC range • 1.5 mA average • +3dBm output • 5Kbps maximum data rate • Low harmonics
Rx: • 2.7 ~ 5.2VDC range • Low power consumption (6mA op., 300µA sleep) • -97 Typical sensitivity • 5Kbps maximum data rate • Balanced LO for easy certification

KH Series – Transmitter And Receiver Featuring Integrated Encoder/Decoders: This series combines the popular LC TX/RX with an integrated encoder/decoder pair. The encoder module accepts up to eight parallel inputs. This allows the direct connection of switches or a microcontroller.

KH2 Series – This series is ideally suited for applications such as remote control/command and keyless entry. It combines a high-performance RF receiver with an on-board decoder. When paired with a matching KH Series transmitter/encoder module, OEM transmitter, or LC or LR Series transmitter and Holtek HT640 encoder combination, a highly reliable wireless link is formed, capable of transferring the status of 8 parallel inputs for distances of up to 3,000 ft. Ten tri-state address lines provide 59,049 (3^{10}) different addresses.

RM Series – Provides a complete TX/RX solution in a compact SIP style module. This series utilizes an advanced SAW based design and FM/FSK modulation and operates in the 260 ~ 470MHz band.
Tx: • 5.9 ~ 9.0VDC range • 6.0mA average • +3dBm output • 10,000Kbps maximum data rate • SIP package
Rx: • 4.0 ~ 9.0VDC range • 14mA average • -103 Typical sensitivity

HP3 Series – High-Performance, Low-Cost, RF TX/RX Modules: These modules are designed for the popular 902 ~ 928MHz band. The modules offer 8 or 256 selectable channels and are capable of transmitting analog and digital information for distances of up to 1000 feet. Available in SIP or SMT package.
Tx: • 8 parallel selectable channels on PO series and 8 parallel 120 serial on PS series • Synthesized architecture • 2.7 ~ 3VDC supply range • Low power (15mA average current): • 0dbm output power • 100Hz ~ 25kHz analog bandwidth • CTS
Rx: • 8 parallel selectable channels on PO series and 8 parallel 120 serial on PS series • Synthesized architecture • 2.7 ~ 18VDC supply range • Low power (18mA average current; 50µA powerdown) • 50Kbps maximum data rate • 50Hz ~ 25kHz analog bandwidth • RSSI output • Powerdown control

BBA Series – Broadband RF Amplifiers: These amplifiers are well suited to a wide range of amplification and buffering applications including extending the range of Linx's own RF modules (when legally appropriate). The hybrid amps are pre-matched to 50Ω and require no external RF components.
BBA-322: • High gain model • 10Mhz ~ 3GHz broadband operation • +20dB small signal gain at 900MHz • Up to +10 (10mW) Linear output power • 3.8dB noise figure • Operates from a single supply
BBA-519: • High output model • 10Mhz ~ 4GHz broadband operation • +18dB Small Signal gain at 900MHz • Up to +17 (50mW) Linear output power • 4.8dB noise figure

ES Series – Housed in a tiny SMD package, this series utilizes an advanced FM/FSK-based synthesized architecture to provide superior performance and noise immunity when compared to AM/OOK solutions. An outstanding 56Kbps maximum data rate and wide-range analog capability make the ES Series equally at home with digital data or analog sources such as audio. A host of useful features including RSSI, PDN, audio reference, LVL ADJ, low-voltage detect and a microprocessor clock source are provided. Operates at 916.48MHz which in North America allows an unlimited variety of applications including data and audio links. Audio 20Hz ~ 28kHz, very low current for long life in battery applications.
Tx: • Supply voltage: 2.1 ~ 4V • Current: 6.5 ~ 7.5mA • 0dbm output power • Sleep: 90µA
Rx: • Supply voltage: 4.5 ~ 5.5V • Current: 5.5 ~ 6.5mA • Sleep: 50µA

LR Series – This receiver is ideal for the wireless transfer of serial data, control or command information in the 260 ~ 470MHz band • Links less than 3000 feet will benefit from a more reliable signal • Rx is Footprint compatible with popular LC-S series • 10 kbps data rate • Range in excess of 3000 feet • SMD package • No external components required (except antenna) • Operating voltage down to 2.7V • 5kHz analog BW • -112dbm receiver sensitivity typical • 5.2mA supply current typical

QS Series – Allows the rapid addition of USB to virtually any device. Housed in a compact SMD package, the QS Module provides a complete solution for converting between USB and TTL logic output. • Applications include interfacing Linx RF Modules, MCUs, etc., to a USB interface • 4.4 ~ 6VDC supply • Low current consumption, 26mA • USB Bus or self powered • No external components required (except USB jack)

HS and MS Series – Both the MS and HS Series encoders and decoders are designed for remote control applications. They allow the status of up to 8 buttons or contacts to be securely transferred via a wireless link. The MS Series 24 bit address size makes transmissions highly unique, minimizing the possibility of multiple devices having conflicting addresses. The HS Series uses a highly secure encryption algorithm with a non-repeating code to prevent unauthorized users from replicating the signal.
Features: • 8 data lines • Low 2.0V ~ 5.5V operating voltage • Low supply current (370µA @ 3V) • Ultra low 0.1µA standby current • Selectable baud rates

MT Series – The MT Series transcoders are designed for bidirectional remote control applications. Eight status lines can be set up in any combination of inputs and outputs for the transfer of button or contact states.
Features: • Bi-directional control • Automatic confirmation • Secure 2^{24} possible addresses • 8 status lines • Serial Interface Engine (SIE) • Definable recognition authority

LT Series – This transceiver is ideal for the bidirectional wireless transfer of serial data, control, or command information in the favorable 260 ~ 470MHz band. The transceiver is capable of generating +10dBm into a 50Ω load and achieves an outstanding typical sensitivity of -112dBm.
Features: • Long range • Data rates to 10,000bps • No external RF components required • Low power consumption • RSSI and power-down functions

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each 1	25	100	Linx Part No.
			LC Series				
1	Transmitter	315 418 433	TXM-315-LC-ND TXM-418-LC-ND◆ TXM-433-LC-ND◆	6.90 6.90 6.90	6.31 6.31 6.31	5.60 5.60 5.60	TXM-315-LC TXM-418-LC TXM-433-LC
2	Receiver	418	RXM-418-LC-S-ND	13.79	12.61	10.90	RXM-418-LC-S
			KH/KH2 Series				
3	Transmitter/Encoder	315 418 315 418 433	TXE-315-KH-ND TXE-418-KH-ND◆ TXE-315-KH2-ND◆ TXE-418-KH2-ND◆ TXE-433-KH2-ND◆	9.98 9.98 9.98 9.98 9.98	9.12 9.12 9.12 9.12 9.12	7.80 7.80 7.80 7.80 7.80	TXE-315-KH TXE-418-KH TXE-315-KH2 TXE-418-KH2 TXE-433-KH2
4	Receiver/Decoder	418 315 418 433	RXD-418-KH-ND RXD-315-KH2-ND◆ RXD-418-KH2-ND◆ RXD-433-KH2-ND◆	15.93 15.93 15.93 15.93	14.56 14.56 14.56 14.56	12.75 12.74 12.74 12.20	RXD-418-KH RXD-315-KH2 RXD-418-KH2 RXD-433-KH2
			RM Series				
5	Receiver	418	RXM-418-RM-ND	36.66	33.52	28.31	RXM-418-RM
			HP3 Series				
6	Transmitter 8 Channel Transmitter 8/120 Channel	900 900	TXM-900-HP3-PPO-ND TXM-900-HP3-PPS-ND	29.45 30.33	26.93 27.73	23.60 24.10	TXM-900-HP3-PPO TXM-900-HP3-PPS
7	Receiver 8 Channel Receiver 8/120 Channel	900 900	RXM-900-HP3-PPO-ND RXM-900-HP3-PPS-ND	43.40 44.98	39.68 41.12	30.48 31.47	RXM-900-HP3-PPO RXM-900-HP3-PPS
			BBA Series				
8	Hi-Gain Broadband RF Amp. Hi-Power Broadband RF Amp.	10~3000 10~4000	BBA-322-A-ND BBA-519-A-ND◆	14.80 15.00	14.06 14.25	13.50 13.95	BBA-322-A BBA-519-A
			ES Series — RoHS Compliant				
9	Transmitter	916	TXM-916-ES-ND	13.84	12.66	10.87	TXM-916-ES_
10	Receiver	916	RXM-916-ES-ND	17.12	15.65	12.92	RXM-916-ES_
			LR Series				
11	Transmitter	315 418 433	TXM-315-LR-ND◆ TXM-418-LR-ND TXM-433-LR-ND◆	7.46 7.46 7.46	6.82 6.82 6.82	5.95 5.95 5.95	TXM-315-LR TXM-418-LR TXM-433-LR
12	Receiver	315 418 433	RXM-315-LR-ND◆ RXM-418-LR-ND◆ RXM-433-LR-ND◆	13.56 13.56 13.56	12.40 12.40 12.40	9.80 9.80 9.80	RXM-315-LR RXM-418-LR RXM-433-LR
			QS Series				
13	USB Module	—	SDM-USB-QS-S-ND	13.91	12.72	11.24	SDM-USB-QS-S
			HS Series — RoHS Compliant				
14	Encoder Decoder	— —	LICAL-ENC-HS001-ND LICAL-DEC-HS001-ND	4.45 4.45	4.07 4.07	3.43 3.43	LICAL-ENC-HS001 LICAL-DEC-HS001
			MS Series — RoHS Compliant				
14	Encoder Decoder	— —	LICAL-ENC-MS001-ND LICAL-DEC-MS001-ND	4.10 4.10	3.75 3.75	3.16 3.16	LICAL-ENC-MS001 LICAL-DEC-MS001
			NEW! MT Series — RoHS Compliant NEW!				
14	Transcoder	— —	LICAL-TRC-MTCT-ND† LICAL-TRC-MTTR-ND‡	4.15	3.80 5043.36/1,600	3.68	LICAL-TRC-MT LICAL-TRC-MT
			NEW! MT Series Development Kit — RoHS Compliant NEW!				
—	Master Development Kit..............		MDEV-LICAL-MT-ND	299.00	—	—	MDEV-LICAL-MT
			LS Series — RoHS Compliant				
—	Encoder - 8 Dip Decoder - 8 Dip	— —	LICAL-ENC-LS001-ND LICAL-DEC-LS001-ND	3.90 3.90	3.57 3.57	3.02 3.02	LICAL-ENC-LS001 LICAL-DEC-LS001
			LT Series — RoHS Compliant				
15	Transceiver	315 418 433	TRM-315-LT-ND TRM-418-LT-ND TRM-433-LT-ND	17.15 17.15 17.15	15.68 15.68 15.68	14.70 14.70 14.70	TRM-315-LT TRM-418-LT TRM-433-LT

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Melexis
Microelectronic Integrated Systems

RF Receivers and RFID Transceivers

RF Receivers: Features: • Single superhet architecture for low external component count • FSK for digital data and FM reception • FM/FSK demodulation with phase-coincidence demodulator • For Analog Signal transmission • Low current consumption in active mode and very low standby current • Switchable LNA gain for improved dynamic range • RSSI allows signal strength indication and ASK detection **Operating Temperature Range:** -40°C ~ 85°C

RFID Transceivers:

MLX90121 and MLX12115: Features: • Low external component count **Operating Temperature Range:** -40°C ~ 85°C
MLX90109: Features: • Addressing 100kHz ~ 150kHz frequency range transponder • Biphase and Manchester ASK • ON/OFF keying modulation **Operating Temperature Range:** -40°C ~ 85°C

Protocol	Package	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	25	Tape and Reel‡ Qty.	Pricing
RF Receivers / Transceiver								
FSK/FM/ASK	32-LQFP	315 ~ 433	TH71101ENE-ND	11.11	8.55	6.58	—	—
	32-LQFP	315 ~ 433	TH71102ENE-ND	12.35	9.50	7.31	—	—
	32-LQFP	868 ~ 915	TH71111ENE-ND	12.32	9.49	7.30	—	—
	32-LQFP	868 ~ 915	TH71112ENE-ND◆	12.35	9.50	7.31	—	—
	32-LQFP	300 ~ 930	TH7122ENECT-ND◆ ***NEW!***	15.76	12.13	9.33	2,000	3951.00/M
RFID Transceivers — RoHS Compliant								
—	20-SSOP	13.56	MLX90121EFRCT-ND	18.31	14.09	10.84	1,500	4932.00/M
	20-SSOP	13.56	MLX12115EFRCT-ND	23.25	17.89	13.76	1,500	6262.00/M
	8-SOIC	125kHz	MLX90109EDCCT-ND	9.56	7.35	5.66	2,600	2573.00/M

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change -CT-ND to -TR-ND

RF Receiver and RFID Transceiver Evaluation Boards and Development Kits

Description	Digi-Key Part No.	Price Each
Evaluation Boards and Development Kits for RF/RFID		
Evaluation Board for TH71101 Receiver	EVB71101B-315FSKC-ND	160.00
Evaluation Board for TH71101 Receiver	EVB71101B-433FSKC-ND	160.00
Evaluation Board for TH71102 Receiver	EVB71102B-315FSKC-ND	160.00
Evaluation Board for TH71102 Receiver	EVB71102B-418FSKC-ND	160.00
Evaluation Board for TH71102 Receiver	EVB71102B-433FSKC-ND	160.00
Evaluation Board for TH71111 Receiver	EVB71111B-915FSKC-ND	160.00
Evaluation Board for TH71112 Receiver	EVB71112B-868FSKC-ND	160.00
Evaluation Board for TH71112 Receiver	EVB71112B-915FSKC-ND	160.00
Evaluation Board for TH7122ENE Transceiver	EVB7122-433-FSK-C-ND ***NEW!***	253.75
Evaluation Board for MLX90121	EVB90121-ND	145.00
Development Kit for MLX90121	DVK90121-ND	435.00
Evaluation Board for MLX90109	EVB90109-ND	72.50
Development Kit for MLX90109	DVK90109-ND	435.00

MeshNetics

ZigBee™ Modules and Development Kits

RoHS

MeshNetics is a creator of easy-to-integrate 2.4GHz 802.15.4/ZigBee wireless RF modules and free mesh networking software, used by OEMs and system integrators to add wireless connectivity to their products and solutions. MeshNetics RF modules feature industry leading range performance with a link budget of 104dB, long battery life and ultra-small footprint.

Features:
• Control of ZigBit™ functionality and ZigBee networking via standardized SerialNet AT-Command interface • Very low power and footprint (see chart) • Self-healing wireless networks • Enables solutions in building automation, energy management and efficiency • HVAC, AMR, predictive maintenance, asset tracking and other application areas

Module Dimension (mm)	Supply Voltage (V)	Current Consumption Power Save (µA)	Current Consumption TX/RX (mA)	Frequency (GHz)	Output Power (dBm)	Receiver Sensitivity (dBm)	Antenna Type	Digi-Key Part No.	Price Each 1	10	Digi-Key Part No.	Tape and Reel Pricing 750	MeshNetics Part No.
ZigBee ZigBit Modules													
18.8 X 13.5	1.8 ~ 3.6	6	18/19	2.4	+3	-101	Balance RF Output Pin	758-1000-1-ND†	22.90	22.40	758-1000-2-ND	15300.00	ZDM-A1281-B0
24 X 13.5	1.8 ~ 3.6	6	18/19	2.4	+3	-101	Balanced Dual Chip Ceramic	758-1001-1-ND†	25.90	25.40	758-1001-2-ND	17549.98	ZDM-A1281-A2
Boards and Development Kits													
MeshBean Board with PCB Antenna, Sensors, Light and Temperature								758-1002-ND	125.00	—	—	—	WDB-A1281-P1
MeshBean Board with Chip Antenna, Sensors, Light and Temperature								758-1003-ND	125.00	—	—	—	WDB-A1281-A2
MeshBean Board with SMA Connector, Sensors, Light and Temperature								758-1004-ND	125.00	—	—	—	WDB-A1281-E1
Development Kit for ZigBit Modules, (Includes: 3 MeshBean Boards, Software and Cables, 1-year Manufacturer Support)								758-1005-ND	900.00	—	—	—	ZDK-A1281-CPT
Development Kit for ZigBit Modules, (Includes: 3 MeshBean Boards, Software and Cables, 45-day Manufacturer Support)								758-1006-ND	400.00	—	—	—	ZDK-A1281-LTE

† Cut Tape

MICREL®
Innovation Through Technology™

QwikRadio™ RF Receivers

Digi-Reel® RoHS

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Micrel Part No.
QwikRadio Receiver/Data Demod	14-SOIC	576-1330-1-ND†	3.78	3.03	2.36	MICRF001YM TR
QwikRadio Receiver/Data Demod	14-SOIC	576-1330-2-ND‡		5292.50/2,500		MICRF001YM TR
QwikRadio Receiver/Data Demod	14-Dip	576-1331-ND	4.55	3.64	2.83	MICRF001YN
QwikRadio Receiver/Data Demod	14-SOIC	576-1336-ND	3.67	2.94	2.29	MICRF011YM
QwikRadio Receiver/Data Demod	14-Dip	576-1337-ND	4.41	3.53	2.75	MICRF011YN
115kbps, 800MHz ~ 1GHz UHF Receiver	14-SOIC	576-1333-ND	4.88	3.91	3.04	MICRF005YM
QwikRadio LP UHF Receiver	8-SOIC	576-1334-ND	3.96	3.17	2.47	MICRF007YM
QwikRadio LP UHF Receiver	16-SOIC	576-1335-ND	3.96	3.17	2.47	MICRF009YM
QwikRadio LP UHF Receiver	8-SOIC	576-1962-5-ND ***NEW!***	3.96	3.17	2.47	MICRF010YM
300 ~ 440MHz QwikRadio ASK Receiver	16-SOIC	576-1332-ND	3.96	3.17	2.47	MICRF002YM
300 ~ 440MHz QwikRadio Sweep-Mode Receiver	8-SOIC	576-1961-5-ND ***NEW!***	2.77	2.22	1.73	MICRF008YM
300 ~ 440MHz QwikRadio ASK Receiver	8-SOP	576-2420-ND ***NEW!***	3.96	3.17	2.47	MICRF022YM-FS24
300 ~ 440MHz QwikRadio ASK Receiver	8-SOP	576-2421-ND ***NEW!***	3.96	3.17	2.47	MICRF022YM-FS48
QwikRadio Receiver 3V, 380 ~ 450MHz	16-QSOP	576-1964-5-ND ***NEW!***	3.92	3.14	2.44	MICRF211AYQS
QwikRadio Receiver 3.3V, 300 ~ 350MHz	16-QSOP	576-1649-5-ND	3.92	3.14	2.44	MICRF213AYQS
QwikRadio Receiver 3.3V, 300 ~ 450MHz	16-QSOP	576-2997-ND ***NEW!***	4.70	3.77	2.93	MICRF218AYQS

† Cut Tape ‡ Tape and Reel

QwikRadio™ RF Transmitters

Digi-Reel® RoHS

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Micrel Part No.
QwikRadio UHF ASK Transmitter	8-SOIC	576-1338-ND	2.77	2.22	1.73	MICRF102YM
QwikRadio UHF ASK Transmitter	8-SOIC	576-1339-ND	3.42	2.74	2.13	MICRF103YM
QwikRadio UHF ASK/FSK Transmitter	10-MSOP	576-1963-5-ND ***NEW!***	2.10	1.68	1.26	MICRF112YMM
290 ~ 980MHz ISM Band ASK/FSK Transmitter	24-MLF	576-1965-1-ND† ***NEW!***	3.56	2.85	2.22	MICRF405YML TR
290 ~ 980MHz ISM Band ASK/FSK Transmitter	24-MLF	576-1965-2-ND‡ ***NEW!***		2015.00/1,000		MICRF405YML TR
1.8V, QwikRadio UHF ASK Transmitter	14-SOIC	576-1340-ND	3.51	2.81	2.19	MICRF104YM

† Cut Tape ‡ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RadioWire® ISM Band Transceiver

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Micrel Part No.
			1	25	100		Qty.	Pricing	
MICRF505 850MHz and 950MHz ISM Transceiver	32-MLF	576-1659-1-ND	5.60	4.48	3.78	576-1659-2-ND	1,000	3500.00	MICRF505YML TR
MICRF506 410 ~ 450MHz ISM Transceiver	32-MLF	576-1966-1-ND ***NEW!***	5.60	4.48	3.78	576-1966-2-ND ***NEW!***	1,000	3500.00	MICRF506YML TR
MICRF600Z 902 ~ 928MHz ISM Transceiver	16-MOD1114Q	576-2422-ND ***NEW!***	16.63	14.97	13.28	—	—	—	MICRF600Z
MICRF610Z 868 ~ 870MHz ISM Transceiver	16-MOD1114Q	576-2423-ND ***NEW!***	16.63	14.97	13.28	—	—	—	MICRF610Z
MICRF620Z 430 ~ 440MHz ISM Transceiver	16-MOD1114Q	576-2424-ND ***NEW!***	16.63	14.97	13.28	—	—	—	MICRF620Z

RadioWire® Development Kits

Description	Digi-Key Part No.	Price Each			Micrel Part No.
		1	25	100	
RadioWire Development Kit for 902 ~ 928MHz	576-1605-ND	292.50	273.00	253.50	MICRF600DEV1
RadioWire Development Kit for 850 ~ 950MHz	576-1606-ND	292.50	273.00	253.50	MICRF505DEV1

IEEE 802.15.4 - ZigBee™ RF Transceiver

This is a complete IEEE 802.15.4 radio and operates in the 2.4GHz band. Supports ZigBee, MiWi™ protocols and proprietary protocols to provide an ideal solution for wireless sensor networks, home automation, building automation and consumer applications.

Frequency Range (GHz)	Sensitivity (dBm)	Power Output (dBm)	RSSI	TX Power Consumption (mA)	RX Power Consumption (mA)	Clock (MHz)	MAC Features	Encryption	Interface	Package	Digi-Key Part No.	Price Each		
												1	25	100
2.405 ~ 2.48	-95.00	0	Yes	18.00	22.00	20	CSMA-CA	AES128	4-Wire SPI	40-QFN	MRF24J40-I/ML-ND	5.38	2.76	2.69

Universal Socket Modems

Multi-Tech Systems embedded modems offer easy integration of multiple technologies, all in the same universal socket modem interface.

Development Kits: MTSMI-UDK: This developer kit allows the user to configure his own development kit with a modem of their choice. The target board is compatible with any Serial Socket modem module, allowing for rapid development of any project with this single board. Purchase of the desired universal socket modem is required.

MTSMI-P-DK: This developer kit allows for the development with modems that have a parallel interface.

MTRJ-DK: This developer's kit allows for development with the RJ Modem series, which is a complete integrated modem with global compliance in a small form factor.

Description	Voltage (V)	Interface	Digi-Key Part No.	Price Each			Multi-Tech Part No.
				1	50	100	
SocketEthernet IP® Device Server	3.3	Serial-to-Ethernet	591-1040-ND	39.00	37.70	36.40	MT100SEM-L
			591-1079-ND ***NEW!***	39.00	37.70	36.40	MT100SEM-L.R1
			591-1010-ND	59.97	58.39	56.92	MTXCSEM-L.R2
			591-1036-ND	55.76	54.31	52.94	MTXCSEM-L.R3
	5	Serial-to-Ethernet	591-1039-ND	39.00	37.70	36.40	MT100SEM
			591-1078-ND ***NEW!***	39.00	37.70	36.40	MT100SEM.R1
			591-1018-ND	58.18	56.68	55.25	MTXCSEM.R2
			591-1035-ND	58.19	56.68	55.24	MTXCSEM.R3
SocketWireless® Wi-Fi® Device Server, WLAN	3.3	Serial-to-Wi-Fi, 802.11b	591-1038-ND	84.85	82.65	80.56	MT800SWM-L
	5	Serial-to-Wi-Fi, 802.11b	591-1037-ND	84.85	82.65	80.56	MT800SWM
SocketWireless Bluetooth® V2.0 Device Server	3.3	Serial-to-Bluetooth	591-1042-ND	59.58	57.80	56.90	MTS2BTSMI-L.R2
	5	Serial-to-Bluetooth	591-1041-ND	61.50	59.65	58.73	MTS2BTSMI.R2
			591-1067-ND	61.65	60.05	58.54	MTS2BTSMI.R3
SocketModem® Dial-up Modem, Serial Data	3.3	V.22bis	591-1034-ND	23.68	23.06	22.49	MT2456SMI-L-22.R3
	5	V.22bis	591-1033-ND	25.60	24.94	24.31	MT2456SMI-22.R3
SocketModem Dial-up Modem, Serial Data	3.3	V.22bis	591-1066-ND	16.97	16.53	16.11	MT2492SMI-L-22
		V.34	591-1065-ND	20.60	20.06	19.56	MT2492SMI-L-34
		V.92	591-1064-ND	25.45	24.79	24.16	MT2492SMI-L-92
	5	V.22bis	591-1063-ND	16.97	16.53	16.11	MT2492SMI-22
		V.34	591-1062-ND	20.60	20.06	19.56	MT2492SMI-34
		V.92	591-1061-ND	25.45	24.79	24.16	MT2492SMI-92
SocketModem Dial-up Modem, Serial Data/Fax	3.3	V.32bis	591-1027-ND	33.93	33.05	32.22	MT5600SMI-L-32.R2
		V.34	591-1001-ND	36.36	35.42	34.52	MT5600SMI-L-34.R2
		V.92	591-1002-ND	38.79	37.78	36.83	MT5600SMI-L-92.R2
	5	V.32bis	591-1012-ND	36.36	35.42	34.52	MT5600SMI-32.R2
		V.34	591-1028-ND	38.79	37.78	36.83	MT5600SMI-34.R2
		V.92	591-1000-ND	41.21	40.14	39.13	MT5600SMI-92.R2
SocketModem Dial-up Modem, Serial Data/Fax, without LED pins	3.3	V.34	591-1029-ND	36.36	35.42	34.52	MT5600SMI-X-L-34.R2
SocketModem Dial-up Modem, Parallel Data/Fax	5	V.34	591-1030-ND	38.79	37.78	36.83	MT5600SMI-P-34.R2
SocketModem Dial-up Modem, Serial Data/Fax	5	V.34/V.34 (fax)	591-1003-ND	45.61	44.43	43.30	MT5634SMI-34.R2
		V.92/V.34 (fax)	591-1031-ND	50.83	49.51	48.25	MT5634SMI-92.R2
SocketModem Dial-up Modem, Serial Data/Fax, High Voltage	5	V.92/V.34 (fax)	591-1032-ND	56.87	55.39	54.00	MT5634SMI-HV-92.R2
SocketModem Dial-up Modem, Serial Data/Fax, Industrial Temperature	5	V.92/V.34 (fax)	591-1004-ND	56.87	55.39	54.00	MT5634SMI-ITP-92.R2
SocketModem Dial-up Modem, Parallel Data/Fax	5	V.92/V.34 (fax)	591-1024-ND	50.83	49.51	48.25	MT5634SMI-P-92.R2
SocketModem Dial-up Modem, Parallel Data/Fax, High Voltage	5	V.92/V.34 (fax)	591-1025-ND	56.87	55.39	54.00	MT5634SMI-P-HV-92.R2
SocketModem Dial-up Modem, Parallel Data/Fax, Industrial Temperature	5	V.92/V.34 (fax)	591-1026-ND	56.87	55.39	54.00	MT5634SMI-P-ITP-92.R2
SocketModem Dial-up Modem, Serial Data	3.3	V.34	591-1083-ND ***NEW!***	26.67	25.97	25.32	MT5656SMI-L-D-34
		V.92	591-1081-ND ***NEW!***	31.52	30.70	29.92	MT5656SMI-L-D-92
	5	V.34	591-1082-ND ***NEW!***	26.67	25.97	25.32	MT5656SMI-D-34
		V.92	591-1080-ND ***NEW!***	31.52	30.70	29.92	MT5656SMI-D-92
SocketModem Dial-up Modem, Serial Data/Fax, Speakerphone I/O	5	V.32bis	591-1021-ND	38.79	37.78	36.83	MT5656SMI-V-32.R2
		V.34	591-1020-ND	41.21	40.14	39.13	MT5656SMI-V-34.R2
		V.92	591-1019-ND	43.64	42.51	41.43	MT5656SMI-V-92.R2
SocketModem Dial-up Modem, Serial Data/Fax	3.3	V.92/V.34 (fax)	591-1056-ND	44.85	43.69	42.59	MT9234SMI-L-92
	5	V.92/V.34 (fax)	591-1055-ND	44.85	43.69	42.59	MT9234SMI-92
SocketModem Dial-up Modem, Serial Data/Fax, High Voltage	5	V.92/V.34 (fax)	591-1057-ND	50.91	49.59	48.34	MT9234SMI-HV-92
SocketModem Dial-up Modem, Parallel Data/Fax	3.3	V.92/V.34 (fax)	591-1059-ND	44.85	43.69	42.59	MT9234SMI-P-L-92
	5	V.92/V.34 (fax)	591-1058-ND	44.85	43.69	42.59	MT9234SMI-P-92
SocketModem Dial-up Modem, Parallel Data/Fax, High Voltage	5	V.92/V.34 (fax)	591-1060-ND	50.91	49.59	48.34	MT9234SMI-P-HV-92
SocketModem CDMA Wireless Modem, 800/1900MHz, Verizon	5	CDMA	591-1052-ND	210.32	205.13	200.18	MTSMC-C-N3.R2
SocketModem EDGE Wireless Modem, Quad-Band GSM	5	EDGE/GSM	591-1007-ND	194.73	190.02	185.29	MTSMC-E.R2
			591-1049-ND	181.11	176.64	172.39	MTSMC-E.R3
			591-1093-ND ***NEW!***	181.11	176.64	172.39	MTSMC-E.R4
SocketModem EDGE Wireless Modem, Quad-Band GSM with Voice Capability	5	EDGE/GSM	591-1017-ND	181.12	176.65	172.39	MTSMC-E-V.R2
			591-1050-ND	181.11	176.64	172.39	MTSMC-E-V.R3
			591-1094-ND ***NEW!***	181.11	176.64	172.39	MTSMC-E-V.R4

(Continued)

MultiTech Systems

Universal Socket Modems *(Cont.)*

Description	Voltage (V)	Interface	Digi-Key Part No.	Price Each 1	50	100	Multi-Tech Part No.
SocketModem GPRS Wireless Modem, 850/1900MHz	5	GSM/GPRS	591-1011-ND	128.16	125.01	122.00	MTSMC-G-F2.R1.1
SocketModem GPRS Wireless Modem, Quad-Band, 850/1900MHz	5	GSM/GPRS	591-1053-ND 591-1087-ND ***NEW!***	128.16 128.16	125.01 125.01	122.00 122.00	MTSMC-G-F4 MTSMC-G-F4.R1
SocketModem GPRS Wireless Modem, Quad-Band w/Voice Capability, 850/1900MHz	5	GSM/GPRS	591-1068-ND 591-1088-ND ***NEW!***	128.16 128.16	125.01 125.01	122.00 122.00	MTSMC-G-F4-V MTSMC-G-F4-V.R1
SocketModem GPRS Wireless Modem, Quad-Band, 900/1800MHz	5	GSM/GPRS	591-1089-ND ***NEW!***	128.16	125.01	122.00	MTSMC-G-F4-ED.R1
SocketModem GPRS Wireless Modem, Quad-Band w/Voice Capability, 900/1800MHz	5	GSM/GPRS	591-1090-ND ***NEW!***	128.16	125.01	122.00	MTSMC-G-F4-V-ED.R1
RJModem® Modem, RJ-11 Port, Serial Data	3.3	V.34 V.92	591-1005-ND 591-1006-ND	39.79 42.45	38.75 41.35	37.77 40.30	MT5656RJ-L-34.R2 MT5656RJ-L-92.R2
	5	V.92	591-1051-ND	42.45	41.35	40.30	MT5656RJ-92.R2
ModemModule™ GPRS Wireless Modem, 850/1900MHz	5	GSM/GPRS	591-1016-ND	132.05	128.80	125.69	MTMMC-G-F2.R1.1
MMCModem™ GPRS Wireless Modem, Quad-Band, 850/1900 MHz	5	GSM/GPRS	591-1054-ND 591-1091-ND ***NEW!***	132.05 132.05	128.80 128.80	125.69 125.69	MTMMC-G-F4 MTMMC-G-F4.R1
MMCModem GPRS Wireless Modem, Quad-Band, 900/1800 MHz	5	GSM/GPRS	591-1092-ND ***NEW!***	132.05	128.80	125.69	MTMMC-G-F4-ED.R1
Development Kits							
Universal Socket Modem Development Kit			591-1009-ND	300.00	—	—	MTSMI-UDK
Socket Modem Development Kit for Parallel Interface			591-1013-ND	199.00	—	—	MTSMI-P-DK
RJ Modem Development Kit			591-1014-ND	199.00	—	—	MTRJ-DK
Accessories							
CDMA and F2 Hinged Right Angle Antenna			591-1044-ND	9.73	9.50	9.27	ANCF2-10HRA
F1 Hinged Right Angle Antenna			591-1045-ND	9.73	9.50	9.27	ANF1-10HRA
Bluetooth Hinged Right Angle Reverse Polarity Antenna			591-1046-ND	13.62	13.28	12.96	ANBT-10HRA
SMA to MMCX COAX RF Cable 6 Inch			591-1047-ND	20.25	19.75	19.28	CASMA-MMCX-10
Reverse SMA to MMCX COAX RF Cable 6 Inch			591-1048-ND	20.25	19.75	19.28	CARSMA-MMCX-10
Antenna for GPRS Quad-Band			591-1069-ND	9.73	9.49	9.27	ANQB-50HRA

muRata *Innovator in Electronics*

NEW! Saw Filters

Specifications: • Nominal Input/Output Impedance: 50Ω

Dimensions in mm

Fig. 1

Pin Configuration	
1	Input
4	Output
2 ~ 3	Ground

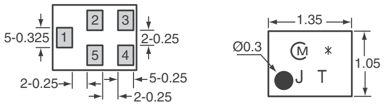

Fig. 2

Pin Configuration	
1	Input
3	Output
2, 4	Ground

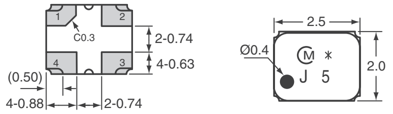

Fig.	Center Frequency (GHz)	Insertion Loss Typical (dB)	Ripple (dB)	Input Signal Level (mW)	Operating Temperature Range	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 2,000	Murata Part No.
1	1.575 1.575 0.915	0.45 0.95 1.8	0.02 0.03 0.3	50 50 31.6	-30°C ~ 85°C -30°C ~ 85°C -30°C ~ 85°C	490-5016-1-ND 490-5017-1-ND 490-5019-1-ND	1.22 1.11 3.36	1.02 .93 2.80	.92 .84 2.52	490-5016-2-ND 490-5017-2-ND 490-5019-2-ND	357.00/M 324.00/M 980.00/M	SAFEB1G57KB0F00R12 SAFEB1G57KE0F00R12 SAFEB915MAL0F00R12
2	1.575	1.1	0.1	50	-40°C ~ 85°C	490-5018-1-ND	1.95	1.63	1.47	490-5018-2-ND	569.00/M	SAFSE1G57KA0T90R12

BandPass Filter

Specifications: • Operating Temperature Range: -40°C ~ 85°C • Power Capacity: 500mW

Dimensions in mm

Fig. 1

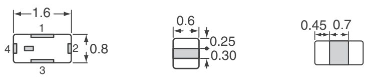

Fig. 2 ***NEW!***

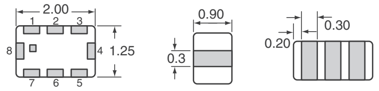

Fig. 3 ***NEW!***

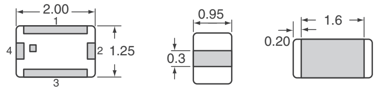

Fig.	Center Frequency (GHz)	Operating Frequency (GHz)	Insertion Loss @ 25°C (dB)	Ripple (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 4,000	Murata Part No.
1	2.45	2.4 ~ 2.5	1.8	0.7	490-4743-1-ND	.60	.51	.45	490-4743-2-ND	175.00/M	LFB182G45SG9B740
2	2.45	2.4 ~ 2.5	3.5	—	490-5020-1-ND ***NEW!***	.69	.58	.52	490-5020-2-ND ***NEW!***	200.00/M	LFB212G45BA1A220
3	2.45	2.4 ~ 2.5	1.5 2.6	0.5 1.8	490-5021-1-ND ***NEW!*** 490-5022-1-ND ***NEW!***	.66 .66	.55 .55	.50 .50	490-5021-2-ND ***NEW!*** 490-5022-2-ND ***NEW!***	192.00/M 192.00/M	LFB212G45SG8A127 LFB212G45SG8A192

RF Balun Transformers

Chip type SMD baluns constructed with copper conductor and ceramic material. Ideal for high-frequency applications. Small-size and low-loss baluns can be customized for the balance impedance of 100Ω ~ 200Ω. **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Power Capacity: 0.5W

Dimensions in mm

Fig. 1

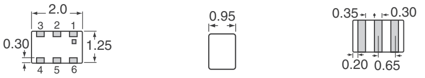

Fig. 2

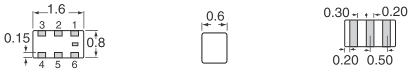

Fig.	Operating Frequency (GHz)	Insertion Loss @ 25°C (dB)	Balance Impedance Dif-Nom. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 4,000	Murata Part No.
1	2.3 ~ 2.5	1.0 0.8	200 50	490-4744-1-ND 490-4745-1-ND	.45 .45	.38 .38	.34 .34	490-4744-2-ND 490-4745-2-ND	132.00/M 132.00/M	LDB212G4020C-001 LDB212G4005C-001
2	2.4 ~ 2.5	1.0 1.0 1.3	50 100 200	490-4746-1-ND 490-5023-1-ND ***NEW!*** 490-4747-1-ND	.44 .44 .44	.37 .37 .37	.33 .33 .33	490-4746-2-ND 490-5023-2-ND ***NEW!*** 490-4747-2-ND	127.00/M 127.00/M 127.00/M	LDB182G4505C-110 LDB182G4510C-110 LDB182G4520C-110

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

National Semiconductor Micro-Module Bluetooth®

A highly integrated Bluetooth 1.2 compliant solution. The integrated baseband controller and 2.4GHz radio combine to form a complete, small form-factor (6.1mm x 9.1mm x 1.2mm) Bluetooth node. The baseband controller has a standard Host Controller Interface (HCI). The firmware supplied in the on-chip ROM supports a complete Bluetooth Link Manager and HCI with communication through a UART or USB interface. This firmware features point-to-point and point-to-multipoint link management, supporting data rates up to 723kbps. The radio has a heterodyne receiver architecture with a low intermediate frequency (IF), which enables the IF filters to be integrated on-chip. The transmitter uses direct IQ-modulation with Gaussian-filtered bit-stream data, a voltage controlled oscillator (VCO) buffer and a power amplifier.

LMX5453 Bluetooth 2.0 compliant solution **Features:** • eSCO • eSCO over USB HCI transport

Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
LMX5453SMXCT-ND	14.09	12.08	10.71	LMX5453SMXTR-ND	2,500	9780.76/M

Bluetooth® Serial Port Modules

Digital Hardware: • Baseband and Link Management Processors • CompactRISC Core • Integrated Memory: Flash, RAM • UART Command/Data Port • Auxiliary Host Interface Ports • Advanced Power Management (APM) features • Advanced Audio Interface for external PCM codec

Firmware: Complete Bluetooth Stack including: • Baseband and Link Manager • L2CAP, RFCOMM, SDP • Profiles: GAP, SDAP, SPP

LMX9830: Bluetooth Serial Port Module is a highly integrated Bluetooth 2.0 baseband controller and 2.4GHz radio, combined to form a complete small form factor (6.1mm x 9.1mm x 1.2mm) Bluetooth node. All hardware and firmware is included to provide a complete solution from antenna through the complete lower and upper layers of the Bluetooth stack.

LMX9838: Bluetooth Serial Port Module is a fully integrated Bluetooth 2.0 baseband controller, 2.4GHz radio, crystal, antenna, LDO and discreets; combined to form a complete small form factor (10mm x 17mm x 2.0mm) Bluetooth node. All hardware and firmware is included to provide a complete solution from antenna through the complete lower and upper layers of the Bluetooth stack.

LMX9838DONGLE Kit: This kit includes everything necessary to evaluate all the features of the LMX9838 Bluetooth.

Kit Includes: • Complete RS232/UART evaluation board • Audio codec board • Power supply and cables • Simply Blue Commander software • Simply Blue Smart demo software • Full design documentation • Bluetooth USB dongle and software (additional Bluetooth device to connect to)

Digi-Key Part No.	Price Each 1	25	100	National Semiconductor Part No.
LMX9830SM-ND	12.48	10.70	9.49	LMX9830SM/NOPB
LMX9838SB-ND	24.00	22.40	20.80	LMX9838SB/NOPB
LMX9838DONGLE-ND	253.50	—	—	LMX9838DONGLE

PLL/Frequency Synthesizer

PLL Type	Modulus	Operating Freq. (MHz)	Aux. Op. Frequency (MHz)	Normalized Phase Noise	Digi-Key Part No.	Price Each 1	25	100
RF/IF Dual	Integer	2,000	500	-197 dBc/Hz	LMX1600SLBXCT-ND‡	2.11	1.57	1.16
					LMX1600SLBXTR-ND§	2125.00/2,500		
					LMX1600TM-ND	1.98	1.48	1.09
RF/IF Dual	Integer	1,100	500	-197 dBc/Hz	LMX1601SLBXCT-ND‡	2.56	1.90	1.41
					LMX1601SLBXTR-ND§	2578.13/2,500		
					LMX1601TM-ND◆	1.71	1.27	.94
					LMX1601TMXCT-ND‡◆	1.71	1.27	.94
					LMX1601TMXTR-ND§◆	1718.75/2,500		
RF/IF Dual	Integer	1,100	1,100	-197 dBc/Hz	LMX1602TM-ND◆	1.83	1.36	1.01
Single	Integer	550	—	-210 dBc/Hz	LMX2306SLBXCT-ND‡◆	2.50	1.90	1.45
					LMX2306SLBXTR-ND§◆	3125.00/2,500		
					LMX2306TM-ND◆	2.98	2.21	1.64
					LMX2306TMXTR-ND§◆	3000.00/2,500		
Single	Integer	2,500	—	-212 dBc/Hz	LMX2310USLDXCT-ND‡	3.38	2.57	1.96
					LMX2310USLDXTR-ND§	4218.75/2,500		
Single	Integer	2,000	—	-212 dBc/Hz	LMX2311USLDXCT-ND‡	3.25	2.47	1.89
					LMX2311USLDXTR-ND§	4062.50/2,500		
Single	Integer	1,200	—	-212 dBc/Hz	LMX2312USLDXCT-ND‡	3.10	2.36	1.80
					LMX2312USLDXTR-ND§	3875.00/2,500		
Single	Integer	600	—	-212 dBc/Hz	LMX2313USLDXCT-ND‡◆	3.00	2.28	1.74
					LMX2313USLDXTR-ND§◆	3750.00/2,500		
Single	Integer	1,200	—	-210 dBc/Hz	LMX2316SLBXCT-ND‡	2.58	1.96	1.50
					LMX2316SLBXTR-ND§	3218.75/2,500		
					LMX2316TM-ND◆	3.04	2.26	1.67
Single	Integer	2,800	—	-210 dBc/Hz	LMX2326SLBXCT-ND‡	3.33	2.53	1.93
					LMX2326SLBXTR-ND§	4156.25/2,500		
					LMX2326TM-ND◆	2.88	2.19	1.67
RF/IF Dual	Integer	2,500	510	-211 dBc/Hz	LMX2330LTM-ND◆	3.03	2.30	1.76
RF/IF Dual	Integer	2,500	600	-212 dBc/Hz	LMX2330USLEXCT-ND‡	3.70	2.82	2.15
					LMX2330USLEXTR-ND§	4625.00/2,500		
RF/IF Dual	Integer	2,000	510	-211 dBc/Hz	LMX2331LTM-ND	2.63	2.00	1.53
RF/IF Dual	Integer	1,200	510	-211 dBc/Hz	LMX2332LSLBXCT-ND‡	3.25	2.47	1.89
					LMX2332LSLBXTR-ND§	4062.50/2,500		
					LMX2332LTM-ND◆	2.60	1.98	1.51
RF/IF Dual	Integer	1,100	1,100	-211 dBc/Hz	LMX2335LTM-ND◆	3.05	2.27	1.68
					LMX2335LTMXCT-ND‡	3.04	2.26	1.67
					LMX2335LTMXTR-ND§	3075.00/2,500		
RF/IF Dual	Integer	2,000	1,100	-211 dBc/Hz	LMX2336LTM-ND◆	2.85	2.17	1.66
Single	Integer	2,000	—	-217 dBc/Hz	LMX2346SLBXCT-ND‡	4.53	3.44	2.63
					LMX2346SLBXTR-ND§	4531.25/2,500		
					LMX2346TM-ND◆	3.58	2.72	2.08
Single	Integer	2,500	—	-217 dBc/Hz	LMX2347SLBXCT-ND‡	3.73	2.84	2.17
					LMX2347SLBXTR-ND§	4656.25/2,500		
					LMX2347TM-ND◆	3.63	2.76	2.11
RF/IF Dual	Fractional-N	2,500	550	-201 dBc/Hz	LMX2350TM-ND◆	5.29	4.19	3.36
RF/IF Dual	Fractional-N	1,200	550	-201 dBc/Hz	LMX2352TM-ND◆	5.70	4.34	3.31
RF/IF Dual	Fractional-N	1,200	550	-201 dBc/Hz	LMX2352TMXCT-ND‡	5.70	4.34	3.31
					LMX2352TMXTR-ND§	7125.00/2,500		
Single	Fractional-N	2,500	—	-201 dBc/Hz	LMX2353TM-ND◆	3.80	2.89	2.21
RF/IF Dual	Fractional-N	2,500	550	-204 dBc/Hz	LMX2354SLBXCT-ND‡	4.20	3.20	2.44
					LMX2354SLBXTR-ND§	5250.00/2,500		
					LMX2354TM-ND◆	4.05	3.08	2.35
RF/IF Dual	Fractional-N	2,600	850	-210 dBc/Hz	LMX2364SLEXCT-ND‡	4.60	3.50	2.67
					LMX2364SLEXTR-ND§	5750.00/2,500		
					LMX2364TM-ND◆	4.48	3.41	2.60
RF/IF Dual	Integer	3,000	800	-219 dBc/Hz	LMX2430SLEXCT-ND‡	4.23	3.22	2.46
					LMX2430SLEXTR-ND§	5281.25/2,500		
					LMX2430TM-ND◆	4.03	3.06	2.34
RF/IF Dual	Integer	3,600	1,700	-219 dBc/Hz	LMX2433SLEXCT-ND‡	4.48	3.41	2.60
					LMX2433SLEXTR-ND§	5593.75/2,500		
					LMX2433TM-ND◆	4.20	3.20	2.44
RF/IF Dual	Integer	5,000	2,500	-219 dBc/Hz	LMX2434SLEXCT-ND‡	4.60	3.50	2.67
					LMX2434SLEXTR-ND§	5750.00/2,500		
					LMX2434TM-ND◆	4.43	3.37	2.57
Delta-Sigma	Fractional-N	2,600	800	-210 dBc/Hz	LMX2470SLEXCT-ND‡◆	5.00	3.80	2.90
					LMX2470SLEXTR-ND§◆	6250.00/2,500		
Delta-Sigma Fractional-N RF/IF Dual	Integer	7,500	3,000	-210 dBc/Hz	LMX2487ESQCT-ND‡◆	6.20	4.90	3.93
					LMX2487ESQTR-ND§◆	3658.00/1,000		
Evaluation Board for LMX2433					LMX2433EVAL-ND	225.00/1		
Evaluation Board for LMX2470					LMX2470EVAL-ND	225.00/1		

◆ ***RoHS Compliant*** ‡ Cut Tape § Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

National Semiconductor PLL with VCO

Digi-Reel®

PLL Type	Wire-less Std.	Inte-grated VCOS	Integrated Loop Filter	RF PLL	IF PLL	Frequency Range (MHz)	Digi-Key Part No.	Price Each 1	25	100
PLL+ VCO	PDC	2	Yes	Sigma-Delta	No	633-768, 1270-1395	LMX2525LQ1321CT-ND*	6.49	5.13	4.11
							LMX2525LQ1321TR-ND§	3831.60/1,000		
PLL+ VCO	PCS	1	Yes	Sigma-Delta	Integer	1619-1650	LMX2502LQ1635CT-ND*	5.65	4.30	3.28
							LMX2502LQ1635TR-ND§	2847.60/1,000		
PLL+ VCO	CDMA	1	Yes	Sigma-Delta	Integer	954-980, 1270-1395	LMX2512LQ0967CT-ND*	5.65	4.30	3.28
							LMX2512LQ0967TR-ND§	2847.60/1,000		
							LMX2512LQ1065CT-ND*	5.65	4.30	3.28
							LMX2512LQ1065TR-ND§	2847.60/1,000		
PLL+ VCO	PCS+ GPS	2	Yes	Sigma-Delta	Integer	1355, 1619-1650	LMX2522LQ1635CT-ND*	5.69	4.50	3.61
							LMX2522LQ1635TR-ND§	3360.40/1,000		
PLL+ VCO	All	1	Yes	Sigma-Delta	No	749.5-755, 1499-1510	LMX2531LQ1500ECT-ND*◆	14.39	12.33	10.94
							LMX2531LQ1500ETR-ND§◆	4540.25/250		
PLL+ VCO	All	1	Yes	Sigma-Delta	No	765-818, 1530-1636	LMX2531LQ1570ECT-ND*◆	11.06	9.48	8.41
							LMX2531LQ1570ETR-ND§◆	2006.60/250		
PLL+ VCO	All	1	Yes	Sigma-Delta	No	795-850, 1590-1700	LMX2531LQ1650ECT-ND*◆	11.06	9.48	8.41
							LMX2531LQ1650ETR-ND§◆	2006.60/250		
PLL+ VCO	All	1	Yes	Sigma-Delta	No	831-885, 1662-1770	LMX2531LQ1700ECT-ND*◆	11.06	9.48	8.41
							LMX2531LQ1700ETR-ND§◆	2006.60/250		
PLL+ VCO	All	1	Yes	Sigma-Delta	No	880-933, 1760-1866	LMX2531LQ1742CT-ND*◆	11.06	9.48	8.41
							LMX2531LQ1742TR-ND§◆	2006.60/250		
PLL+ VCO	All	1	Yes	Sigma-Delta	No	863-920, 1726-1840	LMX2531LQ1778ECT-ND*◆	11.06	9.48	8.41
							LMX2531LQ1778ETR-ND§◆	2006.60/250		
PLL+ VCO	All	1	Yes	Sigma-Delta	No	917-1014, 1834-2028	LMX2531LQ1910ECT-ND*◆	11.06	9.48	8.41
							LMX2531LQ1910ETR-ND§◆	2006.60/250		
PLL+ VCO	All	1	Yes	Sigma-Delta	No	952-1137, 1904-2274	LMX2531LQ2080ECT-ND*◆	11.06	9.48	8.41
							LMX2531LQ2080ETR-ND§◆	2006.60/250		
PLL+ VCO	All	1	Yes	Sigma-Delta	No	1089-1200, 2178-2400	LMX2531LQ2265ECT-ND*◆	11.06	9.48	8.41
							LMX2531LQ2265ETR-ND§◆	2006.60/250		
PLL+ VCO	All	1	Yes	Sigma-Delta	No	1168-1395, 2336-2790	LMX2531LQ2570ECT-ND*◆	11.06	9.48	8.41
							LMX2531LQ2570ETR-ND§◆	2006.60/250		
Evaluation Kit for LMX25021635							LMX25021635EVAL-ND	225.00/1		
Evaluation Kit for LMX25051321							LMX25051321EVAL-ND	225.00/1		
Evaluation Kit for LMX25120967							LMX25120967EVAL-ND	225.00/1		
Evaluation Kit for LMX25121065							LMX25121065EVAL-ND	225.00/1		
Evaluation Kit for LMX25221635							LMX25221635EVAL-ND	225.00/1		

◆ ***RoHS Compliant*** * Cut Tape § Tape and Reel

NEARSON Antennas

RoHS COMPLIANT

Fig. 1

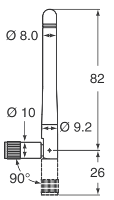

Fig. 2

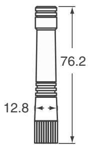

Fig. 3

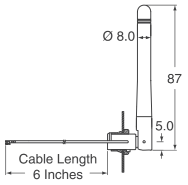

Fig. 4

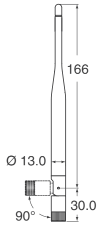

Fig. 5

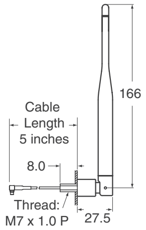

Fig. 6

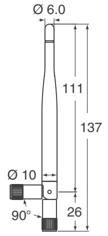

Fig. 7

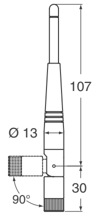

Fig. 8

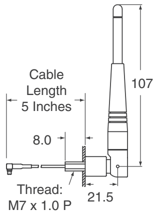

Fig. 9

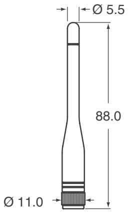

Fig. 10

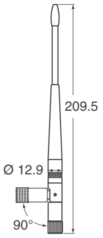

Fig. 11

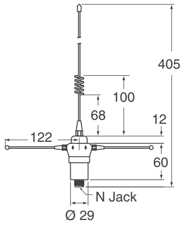

Fig. 12

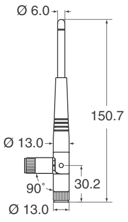

Fig. 13

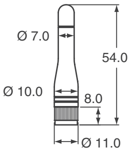

Fig. 14

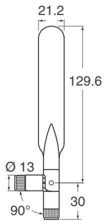

Fig. 15

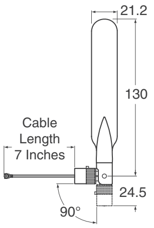

Fig. 16

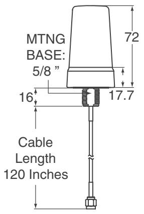

Fig.	Frequency Range (MHz)	Connector Type	Applications	Element Size	Nominal Impedance (Ω)	Digi-Key Part No.	Price Each	Nearson Part No.
1	824 ~ 896, 1850 ~ 1990	SMA	AMPS/PCS	1/2 Wave	50	730-1000-ND	18.00	D131AM-AMPS/PCS-S
	2400 ~ 2500	RP SMA	2.4GHz ISM (Zigbee, WLAN, Bluetooth)	1/2 Wave	50	730-1003-ND	14.85	S131AH-2450S
	2400 ~ 2500, 4900 ~ 5350, 5725 ~ 5850	RP SMA	WLAN/ISM	1/2 Wave	50	730-1013-ND	19.50	T131AH-2.4/4.9/5.X-S
2	310 ~ 320	SMA	VHF/UHF	1/4 Wave	50	730-1001-ND	16.50	L324AM-315
	433 ~ 435	SMA	UHF	1/4 Wave	50	730-1002-ND	16.50	L324AM-434
3	2400 ~ 2500	U.FL	2.4GHz ISM (Zigbee, WLAN, Bluetooth)	1/2 Wave	50	730-1004-ND	17.82	S131CL-6-PX-2450S
4	2400 ~ 2500	RP SMA	2.4GHz ISM (Zigbee, WLAN, Bluetooth)	1/2 Wave	50	730-1005-ND	12.00	S151AH-2450S
5	2400 ~ 2500	MMCX	2.4GHz ISM (Zigbee, WLAN, Bluetooth)	1/2 Wave	50	730-1006-ND	24.45	S151FL-5-RMM-2450S
6	902 ~ 928	RP SMA	900MHz ISM	1/2 Wave	50	730-1007-ND	18.00	S152AH-915S
7	2400 ~ 2500	RP SMA	2.4GHz ISM (Zigbee, WLAN, Bluetooth)	1/2 Wave	50	730-1008-ND	16.50	S181AH-2450S
8	2400 ~ 2500	MMCX	2.4GHz ISM (Zigbee, WLAN, Bluetooth)	1/2 Wave	50	730-1009-ND	18.75	S181FL-5-RMM-2450S
9	902 ~ 928	RP SMA	900MHz ISM	1/4 Wave	50	730-1010-ND	15.00	S331AH-915
10	902 ~ 928	RP SMA	900MHz ISM	1/2 Wave	50	730-1011-ND	24.00	S467AH-915S
11	902 ~ 928	N Type	900MHz ISM	1/2 Wave	50	730-1012-ND	52.00	SG101N-915
12	2400 ~ 2500, 4900 ~ 5350, 5725 ~ 5850	RP TNC	WLAN/ISM	1/2 Wave	50	730-1014-ND	23.94	T145TR-2.4/4.9/5.X-S
13	860 ~ 960, 1710 ~ 1810, 1850 ~ 1990	SMA	PCS/DCS/GSM	1/4 Wave	50	730-1015-ND	15.00	T321AM-GDP
14	824 ~ 896, 890 ~ 960, 1850 ~ 1990, 1710 ~ 1880, 1920 ~ 2170	SMA	AMPS/GSM/PCS/DCS/UMTS	1/2 Wave	50	730-1016-ND	23.85	T6140AM-AGDPU-S
	2400, 4900, 5200, 5800	RP TNC	WLAN/ISM	1/2 Wave	50	730-1018-ND	25.50	T614TR-2.4/4.9/5.X-S
15	2400 ~ 2500, 5150 ~ 5850	U.FL	WLAN/ISM	1/2 Wave	50	730-1017-ND	28.26	T614FC-7-PX-2.4/4.9/5.X-S
16	824 ~ 960, 1710 ~ 2170	RP SMA	AMPS/GSM/PCS/DCS/UMTS	1/2 Wave	50	730-1020-ND	38.00	W765FL-120-AH-AGDP

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Fig. 1

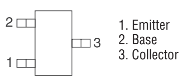

Fig. 2

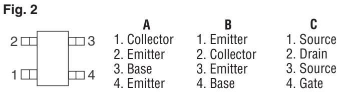

Fig. 3

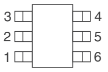

Fig. 4

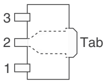

Fig. 5

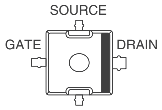

Fig. 6

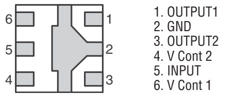

Fig. 7

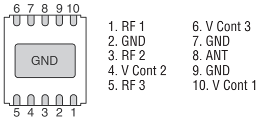

Fig. 8

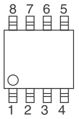

Fig. 9

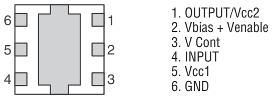

Low Noise Bipolar Transistors

Fig.	Package	Test f (GHz)	NF Typ. (dB)	GA Typ. (dB)	VCE (V)	S21E2 IC (mA)	Typ. (dB)	fT Typ. (GHz)	HFE Typ.	IC Max. (mA)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50	Digi-Key Part No.	Tape & Reel Pricing 3,000
1	SMT	1.0	1.4	12.5	3	7	9	4.5	120	100	NE85619-ACT-ND◆†	.54	4.50	21.00	NE85619-ATR-ND◆	270.00/M
		1.0	1.4	14	8	20	14	7.0	120	65	NE68119-ACT-ND◆†	.78	6.50	30.33	NE68119-ATR-ND◆	390.00/M
		2.0	1.3	7.5	1	10	7.5	9.0	100	30	NE68719CT-ND†	.75	6.25	29.17	—	—
		2.0	1.5	7.5	3	10	9	12.0	110	30	NE68519-ACT-ND◆†	.48	4.00	18.67	NE68519-ATR-ND◆	240.00/M
		2.0	1.5	8	3	20	8	9.5	120	100	NE68819-ACT-ND◆†	.33	2.75	12.83	NE68819-ATR-ND◆	165.00/M
		2.0	1.9	9.5	6	10	9	10.0	120	35	NE68019-ACT-ND◆†	.66	5.50	25.67	NE68019-ATR-ND◆	330.00/M
	SOT-23	1.0	1.2	13	8	20	11	9.0	100	65	NE68133-A-ND◆	.93	7.75	36.17	—	—
		1.0	1.4	9	10	20	11.5	7.0	120	100	NE85633B-ACT-ND◆†	.66	5.50	25.67	NE85633B-ATR-ND◆	330.00/M
		2.0	1.5	7.5	3	3	6.5	8.5	120	100	NE68833-A-ND◆	.93	7.75	36.17	—	—
		2.0	1.7	9	6	10	8	10.0	100	35	NE68033-A-ND◆	1.05	8.75	40.83	—	—
	SOT-323	1.0	1.3	12	10	20	12	4.5	110	100	NE85630-ACT-ND◆†	.66	5.50	25.67	NE85630-ATR-ND◆	330.00/M
		2.0	1.3	7.5	1	10	7.5	9.0	100	30	NE68730CT-ND†	1.05	8.75	40.83	—	—
		2.0	1.5	7	3	10	8.5	12.0	110	30	NE68530CT-ND†	.83	6.88	32.08	—	—
		2.0	1.5	7	3	10	8.5	12.0	110	30	NE68530-ACT-ND◆†	.84	7.00	32.67	—	—
		1.0	1.5	13.5	8	20	13	7.0	120	65	NE68130-ACT-ND◆†	.72	6.00	28.00	NE68130-ATR-ND◆	360.00/M
		2.0	1.7	9.5	6	10	8.5	10.0	100	35	NE68030CT-ND†	.86	7.15	33.37	—	—
		2.0	1.7	9.5	6	10	8.5	10.0	100	35	NE68030-ACT-ND◆†	.87	7.25	33.83	NE68030-ATR-ND◆	435.00/M
	M13	3.0	1.4	—	1	20	13	20.0	80	35	NE894M13-A-ND◆	.78	6.50	30.33	—	—
2A	SOT-143	1.0	1.2	13.5	8	20	15	9.0	100	65	NE68139-ACT-ND◆†	.78	6.50	30.33	NE68139-ATR-ND◆	390.00/M
2B	SOT-143R	1.0	1.2	13.5	8	20	15	9.0	100	65	NE68139RCT-ND*†	.75	6.25	29.17	NE68139RTR-ND*	417.00/M
		2.0	1.7	11	6	10	9	10.0	100	35	NE68039RCT-ND*†	.93	7.75	36.17	NE68039RTR-ND*	517.00/M
		2.0	1.7	11	6	10	9	10.0	100	35	NE68039R-ACT-ND*◆†	.90	7.50	35.00	NE68039R-ATR-ND*◆	450.00/M
2A	SOT-343	2.0	0.9	18	3	10	23	25.0	190	35	NESG2021M05-A-ND◆	1.23	10.25	47.83	—	—
		2.0	1.1	16	2	20	20	25.0	70	35	NE662M04-A-ND◆	.87	7.25	33.83	—	—
		5.2	0.95	10	2	6	14	—	300	35	NESG3031M05-A-ND◆	1.38	11.50	53.67	—	—
3	SOT-363	2.0	1.6	9	3	10	14	14.0	120	30	NE696M01CT-ND†	.83	6.88	32.08	NE696M01TR-ND	467.00/M
		2.0	1.6	9	3	10	14	14.0	120	30	NE696M01-ACT-ND◆†	.84	7.00	32.67	NE696M01-ATR-ND◆	420.00/M
Evaluation Board for NE662M04-A-ND, 900MHz											NE662M04-EVGA09-ND	120.00	—	—	—	—
											PNP — RoHS Compliant					
1	SOT-23	1.0	1.5	10	-8	-20	12	8.5	40	-50	NE97733-A-ND	4.83	43.43	205.06	—	—
		1.0	2.0	7	-10	-15	10	5.5	40	-50	NE97833-A-ND	2.45	22.05	104.13	—	—
											Dual Package					
3	SOT-363	1.0	1.2	—	3	7	9	4.5	120	100	UPA810TCT-ND†	1.02	8.53	39.78	—	—
		1.0	1.2	—	3	7	9	4.5	120	100	UPA810T-ACT-ND◆†	1.05	8.75	40.83	UPA810T-ATR-ND◆	525.00/M
		2.0	1.5	—	3	7	5	9.0	120	100	UPA814TCT-ND†	1.17	9.75	45.50	UPA814TTR-ND	678.00/M
		2.0	1.9	—	3	5	7.5	8.0	120	35	UPA800T-ACT-ND◆†	1.23	10.25	47.83	UPA800T-ATR-ND◆	615.00/M
	6-Mini (Q1)	2.0	1.5	9.5	3	10	8.5	12.0	110	30	UPA862TD-A-ND◆	1.47	12.25	57.17	—	—

* Reverse Pinout ◆ ***RoHS Compliant*** † Cut Tape

Medium Power Bipolar Transistors

Fig.	Package	Test f (GHz)	Test VCE (V)	Test IC (mA)	Test Pin (dBM)	P1dB Typ. (dBM)	Typ. (GHz)	fT HFE Typ.	IC Max. (mA)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50	Digi-Key Part No.	Tape & Reel Pricing 1,000
2A	SOT-343	1.8	3.6	200	15	26	20	60	500	NE664M04-A-ND◆	1.58	14.18	66.94	—	—
		1.8	2.8	23	1	15	15	120	50	NE677M04-A-ND◆	.81	6.75	31.50	—	—
		1.8	2.8	40	7	18	12	120	100	NE678M04-A-ND◆	.84	7.00	32.67	—	—
		2.0	3.6	10	7	21	—	190	100	NESG2101M05-A-ND◆	1.47	12.25	57.17	—	—
4	SOT-89	0.46	6.0	30	15	30	10	120	600	NESG260234-AZ-ND◆	1.59	13.25	61.83	—	—
		1.0	12. 5	100	19	27.5	5.5	120	250	NE461M02-AZ-ND◆	2.43	20.25	94.50	—	—
		1.0	12.5	100	20.5	27.5	5.5	100	250	NE46134-AZCT-ND◆†	1.59	13.25	61.83	NE46134-AZTR-ND◆	795.00
		1.0	10	40	13	22	6.5	120	100	NE85634-ACT-ND◆†	.81	6.75	31.50	NE85634-ATR-ND◆	405.00
		0.9	6.0	30	20	31.5	15	120	750	NESG270034-T1-AZCT-ND◆†	1.23	10.25	47.83	NESG270034-T1-AZTR-ND◆	533.00
Evaluation Board for NESG270034-T1-AZ, 900MHz										NESG270034-EV09-AZ-ND	150.00	—	—	—	—

◆ ***RoHS Compliant*** † Cut Tape

Bipolar Oscillator Transistors

Fig.	Package	Posc f (GHz)	Posc VCE (V)	Posc IC (mA)	Posc Typ. (W)	fT Typ. (GHz)	HFE Typ.	IC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 50	Digi-Key Part No.	Tape & Reel Pricing 3,000
1	SOT-23	2.5	2.5	0.4	0.001	2	100	50	NE94433B-ACT-ND	.33	2.75	12.83	NE94433B-ATR-ND	165.00/M

General Purpose GaAs FETs

Fig.	Package	Gate Length (um)	Gate Width (um)	Frequency Range (GHz)	Test f (GHz)	NF/GA Bias VDS (V)	NF/GA Bias IDS (mA)	NF (dB)	GA (dB)	P1dB (dBm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50
2C	Super Mini-Mold	0.6	500	0.1 ~ 6	2.0	2	10	0.45	14	15	NE3508M04-A-ND	1.44	12.00	56.00
		0.6	400	0.1 ~ 6	2.0	2	10	0.4	17.5	11	NE3509M04-A-ND	1.44	12.00	56.00
		0.6	280	0.1 ~ 6	4	2	15	0.45	16	11	NE3510M04-A-ND	1.50	12.50	58.33
5	S02	0.2	160	4 ~ 18	12	2	10	0.3	13.5	—	NE3512S02-A-ND	2.07	17.25	80.50
		0.2	160	4 ~ 18	12	2	10	0.35	13.5	—	NE3514S02-A-ND	2.46	20.50	95.67

(Continued)

SPDT Dual Control Switches

Fig.	Package	Control Voltages (V)	Insertion Loss (dB)	Isolation @ 2GHz (dB)	Digi-Key Part No.	1	Pricing 10	50
3	6-Super Mini-Mold	2.6/0	0.40 @ 2GHz	19	UPG2155TB-A-ND	1.53	12.75	59.50
6	6-TSON	2.7/0	0.45	19	UPG2158T5K-A-ND	1.17	9.75	45.50

Switches

Fig.	Package	Control Voltages (V)	Insertion Loss (dB)	Isolation @ 2GHz (dB)	Input Power @ 0.1dB (dBm)	Input Power @ 1dB (dBm)	Digi-Key Part No.	1	Pricing 10	50	Digi-Key Part No.	Tape & Reel Pricing 5,000
SPDT Single Control Switches — RoHS Compliant												
3	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	28	33	33	UPG2010TB-A-ND	2.16	18.00	84.00	—	—
	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	28	20.5	24	UPG2012TB-A-ND	1.14	9.50	44.33	—	—
	6 Mini-Mold	2.8/0	0.3 @ 2GHz	30	20.5	24	UPG2012TK-A-ND	1.20	10.00	46.67	—	—
	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	27	27	30	UPG2015TB-A-ND	1.38	11.50	53.67	—	—
	6 Mini-Mold	2.8/0	0.8 @ 2GHz	25	17	21	UPD5713TK-E2-ACT-ND†	.50	4.13	19.25	UPD5713TK-E2-ATR-ND	248.00/M
Evaluation Board for UPD5713TK-E2-ATR-ND							UPD5713TK-EVAL-A-ND ***NEW!***	120.00	—	—	—	—
SPDT Dual Control Switches												
3	6-Super Mini-Mold	2.8/0	0.3 @ 2GHz	28	34	36	UPG2009TB-A-ND◆	1.86	15.50	72.33	—	—
	6-Super Mini-Mold	3.0/0	0.3 @ 2GHz	27	29	32	UPG2179TB-A-ND◆	1.00	9.00	42.50	—	—
	6-Super Mini-Mold	3.0/0	0.3 @ 2GHz	27	27	20 (1.8V), 27 (3V)	UPG2214TB-A-ND◆	.84	7.00	32.67	—	—
	6 Mini-Mold	3.0/0	0.3 @ 2GHz	27	27	20 (1.8V), 27 (3V)	UPG2214TK-A-ND◆	1.05	8.75	40.83	—	—
Evaluation Board for UPG2214TB-A-ND........							UPG2214TB-EVAL-ND	120.00	—	—	—	—
Evaluation Board for UPG2214TK-A-ND........							UPG2214TK-EVAL-A-ND◆	170.00	—	—	—	—
Multi-Throw Switches — RoHS Compliant												
7	10-TSON	2.8/0	0.55 @ 2GHz	21	33	34	UPG2031TQ-A-ND	2.68	24.08	113.69	—	—
Broadband Switches to 6GHz												
3	6-Super Mini-Mold	2.8/0	0.9 @ 5.8GHz	18 @ 5.85GHz	31	33	UPG2022TB-A-ND◆	2.25	18.75	87.50	—	—
	6-TSON	3.0/0	0.4 @ 2.5GHz, 0.5 @ 6GHz	35 @ 2.5GHz, 0.5 @ 6GHz	—	35 @ 2.5GHz, 29 @ 6GHz	UPG2163T5N-A-ND◆	1.23	10.25	47.83	—	—
—	12-QFN	3.0/0	0.6 @ 3.5GHz	25 @ 3.5GHz	—	>37	UPG2157T5F-A-ND◆	1.89	15.75	73.50	—	—
Evaluation Board for UPG2157T5F-A-ND........							UPG2157T5F-EVAL-A-ND◆	200.00	—	—	—	—
Evaluation Board for UPG2163T5N-A-ND							UPG2163T5N-EVAL-ND	120.00	—	—	—	—

◆ ***RoHS Compliant*** † Cut Tape

Frequency Down Converters

Fig.	Package	RF Input Frequency Range Typical (MHz)	IF Output Frequency Range Typical (MHz)	Vcc (V)	Icc (mA)	Conversion Gain (dB)	Digi-Key Part No.	1	Pricing 10	50
3	SOT-363	100 ~ 2000	0 ~ 300	3	6.0	14.0	UPC2756TB-A-ND	2.80	25.20	119.00
			20 ~ 300	3	5.6	13.0	UPC2757TB-A-ND	2.20	19.80	93.50
			20 ~ 300	3	11.0	17.0	UPC2758TB-A-ND	2.20	19.80	93.50

Frequency Up Converters

Fig.	Package	IF Input Frequency Range Typical (MHz)	RF Output Frequency Range Typical (MHz)	Vcc (V)	Icc (mA)	Conversion Gain (dB)	Digi-Key Part No.	1	Pricing 10	50
3	6-Super Mini-Mold	50 ~ 400	800 ~ 2500	3.0	9.0	8.5	UPC8172TB-A-ND	2.22	18.50	86.33
				2.8	15.0	11.0	UPC8187TB-A-ND	2.75	24.75	116.88

Silicon MMIC Prescalers

Fig.	Package	fin (GHz)		Pin (dBm)		Vcc (V)	Icc Typ. (mA)	Divide Ratio	Digi-Key Part No.	1	Cut Tape Pricing 10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000
		Min.	Max.	Min.	Max.									
8	8-SSOP	0.5	1	-20	-5	3	5	2/4/8	UPB1509GV-ACT-ND	2.63	23.63	111.56	UPB1509GV-ATR-ND	1365.00
		0.5	3	-10	+6	5	10	2	UPB1508GV-ACT-ND	2.63	23.63	111.56	UPB1508GV-ATR-ND	1365.00
		0.5	3	-10	+6	5	15	4	UPB1510GV-ACT-ND	2.25	20.25	95.63	UPB1510GV-ATR-ND	1170.00
		0.5	3	-15	+6	5	19	64/128/256	UPB1507GV-ACT-ND	2.25	20.25	95.63	UPB1507GV-ATR-ND	1170.00

Silicon LD Mosfets

Fig.	Pout Typical (dBm)	Linear Gain Typical (dB)	Test Frequency (GHz)	Pin (dBm)	VDS (V)	ID Typical (A)	Digi-Key Part No.	1	Pricing 10	50
5	32.0	10	1.8	25	3.2	0.8	NE5520279A-A-ND	8.93	80.33	379.31
	35.5	16	0.915	25	3.2	1.0	NE5520379A-A-ND	8.40	75.60	357.00
	40.0	15	0.9	27	7.5	2.75	NE5511279A-A-ND	14.03	126.23	596.06

(Continued)

GaAs Drivers

Fig.	Frequency Range (GHz)	Pout Typical (dBm)	Pin (dBm)	Linear Gain (dB)	Power Added Eff. (%)	Test Frequency (GHz)	VDS (V)	IDS (mA)	Digi-Key Part No.	Pricing		
										1	10	50
5	0.8 ~ 3.7	29.5	15	12	58	1.9	3.5	350	NE651R479A-A-ND	9.28	83.48	394.19
	0.8 ~ 3.7	32.5	25	10	58	1.9	3.5	1200	NE6510179A-A-ND	11.35	102.15	482.38

Amplifiers

Fig.	Package	f Typ. @ 3dB Down (MHz)	Vcc (V)	Icc Typ. (mA)	NF Typ. (dB)	Gain Typ. (dB)	RLin Typ. (dB)	RLout Typ. (dB)	P1dB Typ. (dBm)	ISOL Typ. (dB)	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape and Reel	
												1	10	50		Qty.	Pricing
3	SOT-363	1000	5	22.0	3.5	33	6	12	7.5	39	UPC2710TB-A-ND◆	1.23	10.25	47.83	—	—	—
		1500	3	6.0	2.8	19	11.5	8.5	-8.5	40	UPC2748TB-A-ND◆	1.32	11.00	51.33	—	—	—
		1500	3	7.5	4.0	19	13	8.5	-3.7	45	UPC2746TB-ACT-ND◆†	1.23	10.25	47.83	UPC2746TB-ATR-ND◆	3,000	615.00/M
		2300	5	25.0	5.0	23	10	10	8.7	31	UPC2709TB-A-ND◆	1.23	10.25	47.83	—	—	—
		2400	3	27	5.5	20	12	9	6.5	29	UPC2763TB-ACT-ND◆†	1.17	9.75	45.50	UPC2763TB-ATR-ND◆	3,000	585.00/M
		2400	3	36	6.0	21	14	10	11.5	30	UPC2771TB-ACT-ND◆†	1.17	9.75	45.50	UPC2771TB-ATR-ND◆	3,000	585.00/M
		2600	5	12	4.5	20	12	13	-0.4	33	UPC2712TB-ACT-ND◆†	1.05	8.75	40.83	UPC2712TB-ATR-ND◆	3,000	525.00/M
		2700	3	7.5	6.0	12	11	5.5	-3.0	33	UPC2745TB-ACT-ND◆†	.96	8.00	37.33	UPC2745TB-ATR-ND◆	3,000	480.00/M
		2700	5	25	6.0	23	7.5	20	6	32	UPC2776TBCT-ND†	1.02	8.53	39.78	UPC2776TBTR-ND	3,000	583.00/M
		2700	5	25	6.0	23	7.5	20	6	32	UPC2776TB-ACT-ND◆†	1.05	8.75	40.83	UPC2776TB-ATR-ND◆	3,000	525.00/M
		2900	3	6.0	4.0	16	10	12.5	-12.5	30	UPC2749TB-A-ND◆	1.32	11.00	51.33	—	—	—
		2900	3	27	6.5	14.5	8.5	12	7	25	UPC2762TB-ACT-ND◆†	1.17	9.75	45.50	UPC2762TB-ATR-ND◆	3,000	585.00/M
		2900	5	12	5.0	13	25	12	-2.6	30	UPC2711TB-ACT-ND◆†	1.05	8.75	40.83	UPC2711TB-ATR-ND◆	3,000	525.00/M
		2900	5	26.0	6.5	15	11	20	7.5	23	UPC2708TB-A-ND◆	1.23	10.25	47.83	—	—	—
	6-Super Mini-Mold	2800	5	24.5	3.7	32.5	8.5	10.5	9.0	41	UPC3225TB-A-ND◆	2.19	18.25	85.17	—	—	—
		2900	5	14.0	2.3	20.5	15	9.5	-1.5	44	UPC3215TB-A-ND◆	1.98	16.50	77.00	—	—	—
		3200	5	9.0	4.3	21.5	12	17	-3.5	40	UPC3224TB-A-ND◆	.99	8.25	38.50	—	—	—
		3200	5	15.5	5.3	25	14	13	7.5	34	UPC3226TB-A-ND◆	1.11	9.25	43.17	—	—	—
		3200	5	26.0	4.0	32.8	9.5/13	10/14.5	11	41	UPC3232TB-E3-ACT-ND◆†	.93	7.75	36.17	UPC3232TB-E3-ATR-ND◆	3,000	465.00/M
		4000	3	23.0	4.5	21	10.5	10	7.0	32	UPC8181TB-A-ND◆	1.56	13.00	60.67	—	—	—
	6 Mini-Mold	1000	2.8	5	1.4	15.3	9.5	14	-5.5	22	UPC3237TK-A-ND*◆	1.35	11.25	52.50	—	—	—
		3000	3	3.5	1.3	18.5	-7.5	-14.5	-4.0	-32.5	UPC8211TK-A-ND◆	1.32	11.00	51.33	—	—	—
7	8-SSOP	1900	5	49	6.0	23	14	4	15.9	35	UPC1678GV-ACT-ND◆†	2.49	20.75	96.83	UPC1678GV-ATR-ND◆	1,000	1079.00
Evaluation Board for UPC3224TB-A-ND											UPC3224TB-EVAL-ND	120.00	—	—	—	—	—
Evaluation Board for UPC8181TB-A-ND											UPC8181TB-EVAL-ND	120.00	—	—	—	—	—

* Reverse Pinout ◆ ***RoHS Compliant*** † Cut Tape

AGC Amplifier

Fig.	Package	Typical Frequency Range @ 3dB Down (MHz)	Vcc (V)	Icc Typical (mA)	NF (dB)	Gain Typical (dBm)	AGC (dB)	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 1,000
									1	10	50		
3	6 Mini-Mold	2500	3	11.5	7.5	14	40	UPC8204TK-A-ND◆	3.03	27.23	128.56	—	—
8	8-SSOP	90	5	36	5.0	65	61	UPC3231GV-E1-ACT-ND◆†	2.20	19.80	93.50	UPC3231GV-E1-ATR-ND◆	1144.00
Evaluation Board for UPC8204TK-A-ND, 1.9GHz								UPC8204TK-EV19-ND	120.00	—	—	—	—

◆ ***RoHS Compliant*** † Cut Tape

GaAs Power Amplifiers

Fig.	Package	Overall Frequency Range (MHz)	Test Conditions	Output Power (dBm)	Power Added Efficiency (%)	Digi-Key Part No.	Pricing			Digi-Key Part No.	T&R Pricing 3,000
							1	10	50		
—	10-TSON	2400 ~ 2500	F=2.45GHz, VCC=3.3V	23.0	50	UPG2301TQ-A-ND	3.45	31.05	146.63	—	—
	20-QFN	800 ~ 2500	F=1.8GHz, VD=3V	31.5	42	UPG2118K-A-ND	8.60	77.40	365.50	—	—
—	12-QFN	1575	F=1.575GHz, VCC=3V	5	—	UPG2311T5F-A-ND	1.92	16.00	74.67	—	—
—	6-TSON	2400 ~ 2500	F=2.45GHz, VCC=3V	25	58	UPG2250T5N-E2-ACT-ND†	2.88	25.88	122.19	UPG2250T5N-E2-ATR-ND	1495.00/M
9	6-TSON	2400 ~ 2500	F=2.45GHz, VCC=3V	20.0	45	UPG2314T5N-E2-ACT-ND†	2.88	25.88	122.19	UPG2314T5N-E2-ATR-ND	1495.00/M

† Cut Tape

ZigBee™ Modules

FreeStar Modules are based on Freescale™ MC13192 transceiver IC. They include Freescale's MC9S08GT0 8-bit microprocessor, a 100mW power amplifier, and an integrated inverted-F PCB antenna - all in a miniature form factor package. A streamlined communications protocol results in low power consumption in transmit mode. They are FCC, IC, and CE certified, which eliminated the need for costly and time-consuming approval processes when incorporated into an end application.

Contents: • 2 RF Modules • 2 Interface Modules • 2 RS-232 Cables • Batteries • Software

Matrix Modules offer a miniature, fully integrated transmission solution based on the Texas Instruments™ CC2430 transceiver IC. They feature Dynamic Power Configuration (DPC), which allows you to drive the module at 10mW when enhanced range is required, or bypass the power amplifier for 1mW output for low power operation. Changing the power output is easily implemented in software.

Contents: • 2 RF Modules • 2 Interface Modules • 2 RS-232 Cables • Batteries • Software

Apex Evaluation Kit is the interface board for CEL's Apex radio module. Apex modules combine an Ember™ EM250 transceiver IC with an NEC UPG2250T5N high gain Power Amplifier and UPG2214TK high performance RFIC switch. The interface board features a serial communication interface, a power management module, peripherals like a potentiometer and accelerometer and GPIO headers.

Contents: • 2 Interface Boards • 2 Apex Modules (ZAXM-201-1) • 4 AA Batteries, two for each carrier board • 2 USB Cables • CD: Collateral and technical documents

Data Rate	Receiver Sensitivity	Channels	Power Consumption			Interface	Digi-Key Part No.	Price Each
			Transmit	Receive	Standby			
250kbps	-92dBM	16	10mW-125mA	<42mA	<5µA	Serial	ZFSM-101-1-ND	53.25
250kbps	-92dBM	16	100mW-170mA	<37mA	<5µA	Serial	ZAXM-201-1-ND	50.00
							ZAXM-201-1C-ND ***NEW!***	42.90
							ZALM-301-1-ND	45.00
							ZMXM-400-1-ND ***NEW!***	25.95
250kbps	-92dBM	16	100mW-130mA	<33mA	5µA	Serial	ZMXM-400-1C-ND ***NEW!***	39.00
							ZMXM-401-1-ND ***NEW!***	29.10
							ZMXM-401-1C-ND ***NEW!***	42.00
Kit Development for FreeStar Module							ZFSM-101-KIT-1-ND	450.00
Evaluation Kit for Matrix Module							ZMXM-400-KIT-2-ND	450.00
Evaluation Kit for Apex Module							ZAXM-201-KIT-1-ND ***NEW!***	450.00

HV, VHF, and UHF Power Transistors

Fig. 1 – SOT-800A

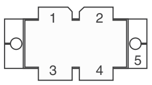

1: Gate (1)
2: Gate (2)
3: Drain (1)
4: Drain (2)
5: Source

Fig. 2 – SOT-540A

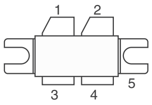

1: Drain (1)
2: Drain (2)
3: Gate (1)
4: Gate (2)
5: Source connected to flange

Fig. 3 – SOT-467C

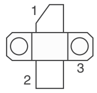

1: Drain
2: Gate
3: Source, Connected to flange

Fig. 4 – SOT-538A

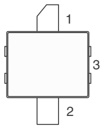

1: Drain
2: Gate
3: Source

Fig. 5 – SOT-262A1

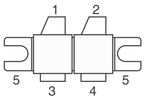

1: Drain (1)
2: Drain (2)
3: Gate (1)
4: Gate (2)
5: Source

Fig. 6 – SOT-268A

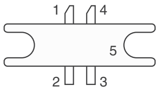

1: Drain (1)
2: Gate (1)
3: Gate (2)
4: Drain (2)
5: Source

Fig. 7 – SOT-171A

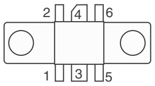

1: Source
2: Source
3: Gate
4: Drain
5: Source
6: Source

Fig. 8 – SOT-121B and SOT-123A

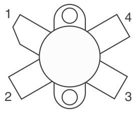

1: Drain
2: Source
3: Gate
4: Source

Fig. 9 – SOT-161A

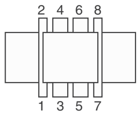

1: Source
2: Source
3: Drain (1)
4: Gate (1)
5: Drain (2)
6: Gate (2)
7: Source
8: Source

Fig. 10 – SOT-119A

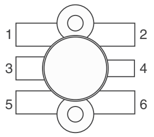

1: Source
2: Source
3: Gate
4: Drain
5: Source
6: Source

Fig. 11 – SOT-279A

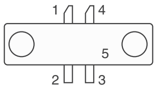

1: Drain (1)
2: Gate (1)
3: Gate (2)
4: Drain (2)
5: Source

Fig. 12 – SOT-409A

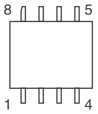

1,8: Source
2,3: Gate
4,5: Source
6,7: Drain

Fig. 13 – SOT-502A

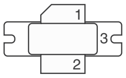

1: Drain
2: Gate
3: Source

Fig. 14 – SOT-502B

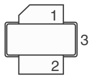

1: Drain
2: Gate
3: Source

Fig. 15 – SOT-365C

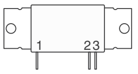

1: RF Input
2: V_S
3: RF Output
Flange: Ground

Fig.	f (MHz)	P_L (W)	V (V)	Gp (dB)	nD (%)	Package	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	T & R Pricing 500	NXP Part No.
						UHF LDMOS							
1	470 ~ 860	250	32	16	55	SOT-800A	568-2408-ND	248.68	232.11	215.53	—	—	BLF872
2	470 ~ 860	150	32	15	55	SOT-540A	568-2407-ND	156.57	146.14	135.70	—	—	BLF861A
3	0 ~ 2000	30	26	>10	>30	SOT-467C	568-2387-ND	90.98	84.92	78.85	—	—	BLF2045
4	0 ~ 960	10	26	>16	>45	SOT-538A	568-2409-ND	33.85	31.60	29.34	—	—	BLF1043
						UHF VDMOS							
5	500	150	28	11	55	SOT-262A1	568-2418-ND	189.47	176.85	164.22	—	—	BLF548
6	500	80	28	13	60	SOT-268A	568-2394-ND	158.68	148.11	137.53	—	—	BLF546
7	500 ~ 960	20	28	14	60	SOT-171A	568-2406-ND	42.32	39.50	36.68	—	—	BLF544
7	500	5	28	16.5	60	SOT-171A	568-2417-ND	23.91	22.32	20.72	—	—	BLF542
						VHF LDMOS							
2	600	150	32	16	55	SOT-540A	568-2419-ND	156.57	146.14	135.70	—	—	BLF647
						VHF VDMOS							
5	225	300	32	13.5	62	SOT-262A1	568-2390-ND	338.53	315.96	293.39	—	—	BLF368
5	225	250	50	16	55	SOT-262A1	568-2412-ND	110.25	102.90	95.55	—	—	BLF278
5	225	300	28	13	67	SOT-262A1	568-2389-ND	189.47	176.85	164.22	—	—	BLF248
8	28 ~ 108	150	50	19	70	SOT-121B	568-2386-ND	44.10	41.16	38.22	—	—	BLF177
8	28 ~ 108	150	28	18	70	SOT-121B	568-2385-ND	71.05	66.32	61.58	—	—	BLF147
9	175	60	28	19	65	SOT-161A	568-2403-ND	52.50	49.00	45.50	—	—	BLF246B
10	225	30	28	16.5	—	SOT-119A	568-2397-ND	205.23	191.55	177.87	—	—	BLF346
11	175	30	28	18	65	SOT-279A	568-2388-ND	49.46	46.16	42.87	—	—	BLF245B
8	175	30	28	15.5	65	SOT-123A	568-2402-ND	23.25	21.70	20.15	—	—	BLF245
8	28 ~ 108	30	50	20	65	SOT-123A	568-2400-ND	25.20	23.52	21.84	—	—	BLF175
8	28	30	28	27	40	SOT-123A	568-2395-ND	30.32	28.30	26.28	—	—	BLF145
8	175	15	28	17	65	SOT-123A	568-2411-ND	23.10	21.56	20.02	—	—	BLF244
8	175	5	28	16	60	SOT-123A	568-2396-ND	20.53	19.16	17.79	—	—	BLF242
12	175	2	12.5	13	55	SOT-409A	568-2410-1-ND	14.17	12.76	11.32	568-2410-2-ND	5315.81	BLF202 T/R

Fig.	f (MHz)	P_L (W)	V (V)	Tp (us)	Duty Cycle	Gp (dB)	nD (%)	Package	Digi-Key Part No.	Price Each 1	25	100	NXP Part No.
						L-Band LDMOS							
3	1200 ~ 1400	35	36	1000	10	14	45	SOT-467C	568-2423-ND	197.37	184.22	171.06	BLL1214-35
13	1200 ~ 1400	35	250	1000	10	13	50	SOT-502A	568-2424-ND	394.74	368.43	342.11	BLL1214-250

Fig.	f (MHz)	P_L (W)	V (V)	Gp (dB)	nD (%)	Package	Digi-Key Part No.	Price Each 1	25	100	NXP Part No.
						High Efficiency LDMOS					
13	1800 ~ 2000	110	28	12.2	47	SOT-502A	568-2393-ND	179.61	167.64	155.66	BLF4G20-110B
14	800 ~ 1000	120	28	19	57	SOT-502B	568-2404-ND	160.26	149.58	138.90	BLF4G10LS-120
	2000 ~ 2200	25	28	13.5	26	SOT-502B	568-2399-ND	187.89	175.37	162.85	BLF4G22S-100
	1800 ~ 2000	110	28	12.2	47	SOT-502B	568-2405-ND	187.89	175.37	162.85	BLF4G20LS-110B
	800 ~ 1000	210	28	18	57	SOT-502B	568-2392-ND	187.89	175.37	162.85	BLF4G10LS-160
	1800 ~ 2000	150	28	13	55	SOT-502B	568-2414-ND	201.71	188.27	174.82	BLF4G20LS-130
	1800 ~ 2000	110	28	12.2	47	SOT-502B	568-2415-ND	179.61	167.64	155.66	BLF4G20S-110B
	2000 ~ 2200	33	28	13.5	26	SOT-502B	568-2416-ND	217.11	202.64	188.16	BLF4G22LS-130
	2000 ~ 2200	30	28	17	28.5	SOT-502B	568-4280-ND	148.03	138.16	128.29	BLF6G22LS-130

Fig.	Mode of Operation	f (MHz)	P_L (W)	Gp (Db)	nD (%)	V (V)	Package	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	T & R Pricing 400	NXP Part No.
							LDMOS RF Power Modules							
15	CW, CDMA	869 ~ 894	25, 3 avg	30	50, 18	28	SOT-365C	568-2421-5-ND	71.05	66.32	61.58	—	—	BGF802-20
	CW, EDGE	869 ~ 894	23, 2.5 avg	30	50, 16	26	SOT-365C	568-2420-5-ND	71.05	66.32	61.58	—	—	BGF844
	CW, EDGE	920 ~ 960	17, 2.5 avg	30	50, 16	26	SOT-365C	568-2422-5-ND	71.05	66.32	61.58	—	—	BGF944
							LDMOS RF Power Transistors							
3	CW, CLASS AB	HF ~ 1000	50	16	60	26	SOT-467C	568-2384-ND	84.63	78.99	73.35	—	—	BLF1046
	CW, CLASS AB	HF ~ 2200	10	>11	30	26	SOT-467C	568-2401-1-ND	50.78	47.40	44.01	568-2401-2-ND	17264.83	BLF2043F /T3
							Ultra Linear LDMOS Drivers							
4	2-TONE, CLASS AB	HF ~ 2200	6, 2	13.5, 16	35, 20	26	SOT-538A	568-2398-ND	35.53	33.16	30.79	—	—	BLF3G21-6
3	2-TONE, CLASS AB	HF ~ 2200	30, 9	13.5, 16	35, 20	26	SOT-467C	568-2413-ND	55.26	51.58	47.90	—	—	BLF3G21-30

Tag and Label ICs

Dimensions in mm

Fig. 1 – FCP2

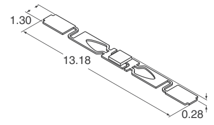

Fig. 2 – MOA2

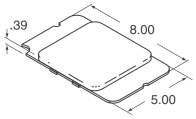

Fig. 3 – SOT-385

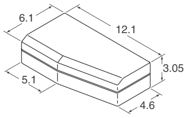

Fig. 4 – 8-TSSOP

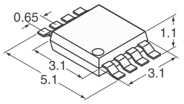

Fig. 5 – MOA4

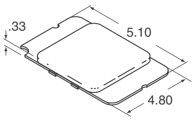

Fig.	Series	Frequency	Size	Operating Distance (m)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	NXP Part No.
1	HITAG	125KHz	256	up to 2.0	FCP2	568-2212-1-ND	.82	.69	.55	.42	568-2212-2-ND	25,000	335.29/M	HTSFCH5601EV/DH-T
2			256	up to 1.5	MOA2	568-2201-1-ND	1.55	1.25	.94	.87	568-2201-2-ND	16,000	760.85/M	HT2MO2S2E3M-T
3			256	up to 1.5	SOT-385	568-2203-ND§	6.79	1.91	1.77	1.74	—	—	—	HT2DC20S20M
2			256	up to 2.0	MOA2	568-2215-1-ND	1.14	.95	.76	.57	568-2215-2-ND	16,000	473.63/M	HTSMOH5601EV-T
2	HITAG	125KHz	2048	up to 1.5	MOA2	568-2202-1-ND	2.37	1.90	1.43	1.33	568-2202-2-ND	16,000	1160.57/M	HT1MO2S3E3M-T
1			2048	up to 2.0	FCP2	568-2211-1-ND	1.61	1.29	.97	.90	568-2211-2-ND	25,000	770.52/M	HTSFCH4801EV/DH-T
2			2048	up to 2.0	MOA2	568-2214-1-ND	1.87	1.50	1.13	1.05	568-2214-2-ND	16,000	915.57/M	HTSMOH4801EV-T
1	I•CODE®	13.56MHz	136	up to 1.5	FCP2	568-2226-1-ND	.53	.43	.32	.23	568-2226-2-ND	25,000	131.63/M	SL2FCS1001DV/DH-T
1			192	up to 1.5	FCP2	568-2227-1-ND	.53	.43	.32	.23	568-2227-2-ND	25,000	131.63/M	SL2FCS1101DV/DH-T
2			512	up to 1.5	MOA2	568-2225-1-ND	1.00	.75	.57	.42	568-2225-2-ND	16,000	311.88/M	SL1MOA2S30M-T
2			1024	up to 1.5	MOA2	568-2228-1-ND	.85	.64	.48	.36	568-2228-2-ND	16,000	264.50/M	SL2MOS2001DVM-T
4	U•CODE	2.45GHz UHF	2048	up to 3.0	8-TSSOP	568-2229-1-ND	.81	.68	.54	.41	568-2229-2-ND	2,500	351.00/M	SL3S3001FTT

§ Bulk

Smart Card ICs

Fig.	Series	Frequency	EEPROM Size (byte)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	NXP Part No.
1	MIFARE® Ultralight	13.56MHz	64	FCP2	568-2216-1-ND 568-2217-1-ND	.55 .55	.42 .42	.31 .31	.23 .23	568-2216-2-ND 568-2217-2-ND	25,000 25,000	167.58/M 167.58/M	MF0FCP2U10/DH-T MF0FCP2U11/DH-T
5 1	MIFARE Standard 1K	13.56MHz	1024	MOA4 FCP2	568-2219-1-ND 568-2218-1-ND	1.45 1.27	1.22 1.06	.97 .85	.73 .64	568-2219-2-ND 568-2218-2-ND	16,000 25,000	605.25/M 517.32/M	MF1MOA4S50/D-T MF1FCP2S50/DH-T
5	MIFARE DESFire	13.56MHz	4096	MOA4	568-2220-1-ND	2.47	1.98	1.49	1.39	568-2220-2-ND	16,000	1212.14/M	MF3MOD4001DV/406-T

Reader ICs

Series	Frequency	Package	Digi-Key Part No.	Price Each 1	25	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing	NXP Part No.
HITAG	125KHz	14-SOIC	568-2206-5-ND§	1.93	1.80	1.67	1.64	—	—	—	HTRC11001AD
			568-2207-1-ND†	2.89	2.32	1.80	1.71	568-2207-2-ND	2,500	1618.10/M	HTRC11001TD-T
MIFARE®	13.56MHz	32-SOIC	568-2222-5-ND§	6.52	6.09	5.65	5.55	—	—	—	MFRC51T0FED
			568-2223-5-ND§	7.67	7.17	6.66	6.53	—	—	—	MFRC53T0FED
			568-2224-5-ND§	8.37	7.82	7.26	7.12	—	—	—	MFRC53101TD
MIFARE and I•CODE®	13.56MHz	32-SOIC	568-2199-5-ND§	9.51	8.88	8.24	8.08	—	—	—	CLRC63201TD

§ Tube † Cut Tape

I•CODE®
Proximity Evaluation Kit

The I•CODE Pegoda reader is based on the SL RC400 reader IC. The SL RC400 reader IC for contactless communication at 13.56MHz. Up to 75mm read/write distance. USB Interface.

Kit Includes: I•CODE Pegoda Reader, USB Cable, SL RC400 Samples, I•CODE sample labels, software, and Users Guide

568-2230-ND (NXP # SLEV400/HAB) **$307.89**

MIFARE® AND I•CODE®
Contactless Smart Card Reader

The Pegoda reader, CL RD701, is a contactless reader based on the CL RC632 reader IC. The CL RC632 is a member of a family for highly integrated reader ICs for contactless communication at 13.56MHz. All layers of ISO14443A+B, ISO 15693 as well as the MIFARE classic crypto are supported. The CL RD701 covers all functionality of the CL RC632 to be able to use this reader as a reference design for a new hardware design. It is designed for easy PC adaptation and application development as well. Typical operating distance 75 - 100mm. CE and FCC compliant.

Kit Includes: CL RD701 Pegoda Reader, USB cable, Ferrite

568-2200-ND (NXP # CLRD701).. **$293.06**

MIFARE® Demo Kit

The MF EV700/HAB is based on the MF RD700 Pegoda reader which uses the MF RC500 reader IC. The MF RC500 is a member of the MICORE family of highly integrated reader ICs for contactless communication at 13.56MHz. The MF EV700 evaluation kit is designed to fulfill several requirements. The Pegoda reader covers all functionality of the MF RC500 to be able to use this reader for easy PC adaptation and application development.

Kit Includes:

• MF RD700 Pegoda reader • Software • 5 MIFARE cards

568-2221-ND (NXP # MFEV700HABM) **$386.91**

MIFARE® EV800
Evaluation Kit

The MIFARE EV800 Evaluation Kit is based on the MF RD700 Pegoda reader. The Pegoda reader covers all functionality of the core component, MF RC500 reader IC, to be able to use this reader for easy PC adaptation and application development.

Kit Includes:

Pegoda reader, MF RD700 • Pegoda CD ROM • 5 MIFARE Cards • Pegoda PCB MF RM700 with USB or RS232 Interface • 5 MF RC 500 sample IC's • Card Size Antenna • 50 Ohm matching circuit

568-3161-ND (NXP # MFEV800HABM) **$1276.14**

RF/IF Systems

Vcc (V)	IF 3 dB Bandwidth	-3dB Limiting	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 2,500
4.5 ~ 8	41MHz	-92 dBm	16-SOIC	568-1202-5-ND† 568-2446-1-ND	4.95 3.15	3.96 2.52	3.08 1.96	— 1764.00/M

*For Tape & Reel part number, change 1-ND to 2-ND † Tube Pricing

FM Receivers

Vcc (V)	Icc (mA)	RF Input Frequency Type (MHz)	LO Freq. Typical (MHz)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 2,500
4.5 ~ 8	6.6	500	150	20-SSOP	568-2087-5-ND†	4.62	3.70	2.88	—
4.5 ~ 8	6.6	500	150	20-SOIC	568-1203-5-ND†	4.84	3.87	3.01	—
4.5 ~ 8	7.4	500	150	20-SOIC	568-1205-5-ND†	4.61	3.69	2.87	—
2.7 ~ 6	4.2	150	150	20-SSOP	568-2088-1-ND	5.31	4.25	3.31	2970.96/M
2.7 ~ 6	5	150	150	20-SSOP	568-2036-1-ND	4.17	3.34	2.60	2334.28/M
2.7 ~ 6	5	100	100	20-SSOP	568-2037-1-ND	2.75	2.20	1.71	1538.59/M
2.7 ~ 7	4.2	150	150	20-SSOP	568-2034-1-ND	4.83	3.87	3.01	2705.73/M
2.7 ~ 6	4.2	150	150	20-SSOP	568-2035-1-ND	4.83	3.87	3.01	2705.73/M
2.7 ~ 5.5	7	200	200	20-TSSOP	568-2374-1-ND	2.72	2.18	1.70	1525.24/M
2.7 ~ 5.5	7.5	500	500	20-SSOP	568-4327-1-ND ***NEW!***	4.62	3.70	2.88	2586.28/M
2.7 ~ 5.5	10	500	500	24-TSSOP	568-1106-1-ND	5.06	4.05	3.15	2835.00/M
4.5 ~ 5.5	8.5	500	500	20-SSOP	568-2378-1-ND	2.32	1.86	1.45	1299.82/M
4.5 ~ 6	6	100	100	20-SSOP	568-2377-1-ND	2.24	1.79	1.35	1145.22/M

*For Tape & Reel part number, change 1-ND to 2-ND † Tube Pricing

SPDT RF Switch

Vdd (V)	Idd (µA)	On Switch Time (ns)	Off Switch Time (ns)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 2,500
3 ~ 5.5	40/300	20	20	8-TSSOP	568-2376-1-ND	2.45	1.96	1.47	1253.00/M

*For Tape & Reel part number, change 1-ND to 2-ND

RF/IF Mixers with VCO

Vcc (V)	Icc (mA)	RF Input Freq. Typ. MHz	LO Freq. Typical MHz	Low Noise Amp	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 2,500
4.5 ~ 8	7.4	800 ~ 1200	1200	Yes	20-SSOP	568-2372-1-ND	3.43	2.75	2.14	1923.14/M
	10.4	800 ~ 1200	1200	Yes	20-SSOP	568-2373-1-ND	3.60	2.88	2.24	2016.00/M
	2.8	500	200	No	8-SOIC	568-1204-5-ND†	2.00	1.60	1.20	—
	2.8	500	200	No	8-DIP	568-2089-5-ND†	1.84	1.48	1.11	—

*For Tape & Reel part number, change 1-ND to 2-ND † Tube Pricing

Wideband Linear Mixer

Vs (V)	Is (mA)	Ptot (mW)	RF Output Freq. Range	IF Output Freq. Range	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 3,000
4	20	40	800 ~ 2500MHz	50 ~ 500MHz	SOT-363	568-2066-1-ND	.99	.75	.56	322.92/M

*For Tape & Reel part number, change 1-ND to 2-ND

General Purpose Wideband Amplifiers

Vs (V)	Is (mA)	Pd (mW)	@ 1GHz				Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000	NXP Part No.
			Nf (dB)	Psat (dBm)	Gain (dB)	P1db (dBm)			1	25	100			
6	35	200	4	12.5	22.7	8.3	SOT-363	568-2068-1-ND	.97	.73	.55	568-2068-2-ND	314.73/M	BGA2709 T/R
	20	200	4.7	2	12.9	-2	SOT-363	568-2069-1-ND	1.00	.84	.67	568-2069-2-ND	432.38/M	BGA2711 T/R
	25	200	3.9	4.8	21.3	0	SOT-363	568-2070-1-ND	.97	.73	.55	568-2070-2-ND	314.73/M	BGA2712 T/R
	25	200	4.9	11	24	7	SOT-363	568-2071-1-ND	.79	.66	.53	568-2071-2-ND	342.16/M	BGA2716 T/R
	15	200	2.1	1	23	-3	SOT-363	568-2072-1-ND	.79	.66	.53	568-2072-2-ND	342.16/M	BGA2717 T/R
	24.4	200	4.9	10.5	23.2	7.5	SOT-363	568-3545-1-ND	1.01	.85	.68	568-3545-2-ND	439.27/M	BGA2776 T/R
	35	200	4.7	13.8	30	12.2	SOT-363	568-3548-1-ND	1.14	.95	.76	568-3548-2-ND	492.57/M	BGM1011 T/R
4	15	200	1.8	-4	21.3	-10	SOT-363	568-2073-1-ND	1.00	.84	.67	568-2073-2-ND	432.38/M	BGA2748 T/R
	50	200	4.4	12	21	11	SOT-363	568-2074-1-ND	1.01	.85	.68	568-2074-2-ND	439.27/M	BGA2771 T/R
	50	200	4.8	9.7	20.1	6	SOT-363	568-3549-1-ND	1.14	.95	.76	568-3549-2-ND	492.57/M	BGM1012 T/R
5	27.5	200	4	15	35	12	SOT-363	568-2076-1-ND	1.14	.95	.76	568-2076-2-ND	492.57/M	BGM1013 T/R
	21	200	4.2	12.9	32.3	11.2	SOT-363	568-2077-1-ND	1.14	.95	.76	568-2077-2-ND	492.57/M	BGM1014 T/R
	4.3	200	2.6	-4	22	-10	SOT-363	568-3544-1-ND	.79	.66	.53	568-3544-2-ND	342.16/M	BGA2715 T/R
								Evaluation Boards						
Evaluation Board for BGA2709								568-4086-ND		180.00/1		—	—	OM7604/BGA2709
Evaluation Board for BGA2712								568-4087-ND		180.00/1		—	—	OM7606/BGA2712
Evaluation Board for BGA2716								568-4089-ND		180.00/1		—	—	OM7608/BGA2716
Evaluation Board for BGA2776								568-4092-ND		180.00/1		—	—	OM7611/BGA2776
Evaluation Board for BGM1011								568-4096-ND		180.00/1		—	—	OM7614/BGM1011
Evaluation Board for BGA2748								568-4090-ND		180.00/1		—	—	OM7609/BGA2748
Evaluation Board for BGA2771								568-4091-ND		180.00/1		—	—	OM7610/BGA2771
Evaluation Board for BGM1012								568-4097-ND		180.00/1		—	—	OM7615/BGM1012
Evaluation Board for BGM1013								568-4098-ND		180.00/1		—	—	OM7616/BGM1013
Evaluation Board for BGM1014								568-4099-ND		180.00/1		—	—	OM7617/BGM1014
Evaluation Board for BGA2715								568-4088-ND		180.00/1		—	—	OM7607/BGA2715

Medium-Power Gain Blocks

Vs (V)	Is (mA)	Pd (mW)	@ 850MHz		@ 2500MHz		Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 4,000	NXP Part No.
			Nf (dB)	P1db (dBm)	Nf (dB)	P1db (dBm)			1	25	100			
4.8	84	20	3	21	3.4	18	SOT-89	568-2075-1-ND	2.25	1.80	1.40	568-2075-2-ND	1260.00/M	BGA6589
4.1	84	16	3.5	17	3.8	14	SOT-89	568-3546-1-ND	2.05	1.65	1.24	568-3546-2-ND	1051.01/M	BGA6289
5.1	74	17	3.1	20	3.4	15	SOT-89	568-3547-1-ND	2.24	1.79	1.35	568-3547-2-ND	1145.22/M	BGA6489
								Evaluation Boards						
Evaluation Board for BGA6589B								568-4095-ND		180.00/1		—	—	OM7613/BGA6589B
Evaluation Board for BGA6289B								568-4093-ND		180.00/1		—	—	OM7620/BGA6289B
Evaluation Board for BGA6489B								568-4094-ND		180.00/1		—	—	OM7612/BGA6489B

Two Stage Variable Gain Linear Amplifier

Vs (V)	Is (mA)	Ptot (mW)	Frequency Range (MHz)	@ 900MHz			@ 1900MHz			Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000	NXP Part No.
				DG (dB)	P1db (dBm)	ACPR (dBc)	DG (dB)	P1db (dBm)	ACPR (dBc)			1	25	100			
3.3	50	200	800 ~ 2500	24	62	11	23	56	13	SOT-363	568-2067-1-ND	1.23	1.03	.83	568-2067-2-ND	533.65/M	BGA2031/1 T/R
											Evaluation Board						
Evaluation Board for BGA2031											568-4085-ND		180.00/1		—	—	OM7603/BGA2031

Low Noise Wideband Amplifiers

Vs (V)	Is (mA)	Ptot (mW)	@ 900MHz			@ 1800MHz			Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000	NXP Part No.
			Nf (dB)	Gain (dBm)	IIP3 (dBc)	Nf (dB)	Gain (dB)	IIP3 (dBm)			1	25	100			
4.5	30	135	1.3	22	-7.4	1.3	19.5	-4.5	SOT-343R	568-2062-1-ND	.93	.70	.53	568-2062-2-ND	302.38/M	BGA2001 T/R
	30	135	1.8	24	-6.5	1.8	16	-4.8	SOT-343R	568-2063-1-ND	.93	.70	.53	568-2063-2-ND	302.38/M	BGA2003 T/R
	30	135	1.5	19	10	—	—	—	SOT-363	568-2064-1-ND	.88	.67	.50	568-2064-2-ND	287.43/M	BGA2011 T/R
	15	70	—	—	—	1.7	16	10	SOT-363	568-2065-1-ND	.88	.67	.50	568-2065-2-ND	287.43/M	BGA2012 T/R
										Evaluation Boards						
Evaluation Board for BGA2001										568-4080-ND		180.00/1		—	—	OM7600/BGA2001/1800
Evaluation Board for BGA2001										568-4081-ND		180.00/1		—	—	OM7600/BGA2001/900
Evaluation Board for BGA2003										568-4082-ND		180.00/1		—	—	OM7619/BGA2003
Evaluation Board for BGA2012										568-4083-ND		180.00/1		—	—	OM7601/BGA2012

Most SMT cutdown parts are available on a **Digi-Reel**®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key**® Services on page 2 for additional information.

founded by Philips

Dual PLL Synthesizer

Vdd (V)	Idd (mA)	Main Vco Input Frequency Range	Main Vco Input Signal Level (dBm)	Main Vco Phase Comp. Max. Freq.	Auxiliary Vco Vco Input Frequency	Auxiliary Vco Input Signal Level (dBm)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	NXP Part No.
2.7 ~ 3.6	7.7	350 ~ 2500MHz	-18/0	4MHz	100/550	-15/0	20-TSSOP	568-2375-1-ND	5.54	4.44	3.45	568-2375-2-ND	3103.64/M	SA8027DH-T

UHF to 900-MHz Transceiver

The SA58646 is a BiCMOS integrated circuit that performs all functions from the antenna to the microcontroller for reception and transmission for both the base station and the handset in a 902MHz ~ 928MHz full-duplex radio.

Features: • Complete RF Rx functionality (single-frequency conversion RF receiver) • Complete RF Tx functionality • Integrated synthesizer • Baseband Rx section with volume control • Baseband Tx section • 3-wire microcontroller interface • Voltage regulator to supply internal PLLs

Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 1,500	NXP Part No.
64-LQFP	568-4004-1-ND	4.26	3.42	2.66	568-4004-2-ND	2415.74/M	SA58646BD-T

WLAN SiP Single Package 802.11b Solution

The BGW200 is a complete, low-power 802.11b WirelessLAN (WLAN) System-in-a-Package (SiP) solution optimized for battery-powered handheld devices. It enables consumers to connect to the growing number of WLAN networks in offices, homes, and public places. It also allows service providers to increase their network reach and customer base, enabling complementary data and voice services across cellular/PCS and WLAN networks. Coexistence support for Bluetooth 1.1 and 1.2 enables seamless integration with NXP Bluetooth solutions.

Features:

• RF Transceiver • Power Amplifier • Co-exists with Bluetooth 1.1 and 1.2

Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	NXP Part No.
68-HVQFN	568-4015-1-ND	22.69	21.18	19.67	BGW200EG/01-G
	568-4015-2-ND†	9453.94/500			BGW200EG/01-G

† Tape and Reel

Bluetooth® 1.2 SiP

The BGB203 is a System-in-a-Package (SiP) solution for Bluetooth 1.2 wireless connectivity. Optimized for short range hosted and embedded applications, it will reduce board space, lower overall cost, and speed time-to-market for a wide range of mobile applications. The BGB203 combines the Bluetooth RF part, protocol stack, Link Controller (LC), Link Manager (LM), and Host Controller Interface (HCI) firmware of the Bluetooth system specification in one SiP with embedded software. Together with an antenna and a reference clock, this device forms a complete Bluetooth solution. Designed to support collaborative coexistence with IEEE 802.11 Wireless LAN (WLAN) systems. A dedicated software and hardware interface implements Adaptive Frequency Hopping (AFH) and Packet Traffic Arbitration (PTA), with voice priority between the BGB203 and the WLAN system.

Features: • Integrated RF filters, balun, switches • ARM7 Processor • Embedded 268K Flash • High Performance Bluetooth 1.2 Core

Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	NXP Part No.
48-HVQFN	568-3300-1-ND	15.44	14.42	13.39	568-3300-2-ND	12508.06/M	BGB203/H1/S06-T

FDI Bluetooth® Demo Kit

Combining the NXP Bluetooth 2.0 SiP BGB203/H1/S06 with 1SPP firmware, this innovative solution implements a Bluetooth Serial Port Profile (SPP) and can be used to wirelessly transfer data between systems.

Features: • Supports Bluetooth 2.0 features of BGB203 • Adaptive Frequency Hopping (AFH) • Automatic re-connect mode • Low-power sleep mode • Physical Interface: UART

Kit includes: • Two 1SPP Evaluation Boards • Two USB Cables • PIFA Antenna included on PCB • DB9 Serial Port connection to PC

622-1020-ND (1SPP-BT-F) **$50.00**

OMRON® RFID Product

RFID stands for Radio Frequency Identification. In contrast to bar codes, RFID uses radio waves to send information such as a unique ID of a product to an antenna, which is then read by the reader. This ID or programmed information is displayed on a host, such as your computer. With RFID you can find all of your goods more effectively without having to see them directly or unpacking boxes/pallets.

Furthermore, multiple ID tags/Inlays can be read while being moved in a warehouse or plant.

V750 Series: Specifications:

• Operating Frequency: 915MHz • Supported Protocols: EPC Class1 Generation 2 • Number of Antenna Port: Mono-Static • Operating Temperature: -10°F ~ 50°F • Protective Rating: IP50 (IEC 60529) • Power Supply Method: Exclusive AC Adapter • Interface Port: Ethernet RS232C • Includes Power Supply

V740 Series: Specifications:

• Operating Frequency: 902MHz ~ 928MHz • Supported Protocol: ISO 15693 • Operating Temperature: 14°F ~ 122°F with no icing • Protective Construction: IP60 (IEC 60529) • Power Supply Method: 24VDC • Dimensions (LxWxD): 247 x 84 x 128mm • Control Interface: RS232C or RS485 • I/O Interface: 4 outputs • Includes Power Supply • Bi-static type uses separate transmitter and receiver antennas

V720 Series: Specifications:

• Operating Frequency: 13.56MHz • Number of Antenna Port: 4 • Interface Port: Ethernet • Power Supply: 100VAC ~ 240VAC, 50/60Hz • Operating Temperature: 32°F ~ 104°F • Enclosure Rating: IP40 • Includes Power Supply

V750 Generation 2 Reader / Writer

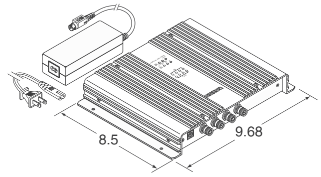

RFID Inlay

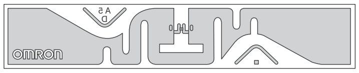

V750 Series Generation 2 — High Performance

Description	Digi-Key Part No.	Price Each	Omron Part No.
High Speed Material Handling Reader / Writer 4 Port Out - 915MHz	Z2635-ND	2295.00	V750-BA50C04-US

RFID Inlays and Labels for V750 Series

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Omron Part No.
Robust Generation 2 Wave Inlays 94 x 16mm (3.7" x .63")	Z2642CT-ND	.74	.69	.66	V750-D22M01-IM-R5K
	Z2642TR-ND†	2500.00/5,000			V750-D22M01-IM-R5K

† Tape and Reel

V740 Series Generation 1 — Retail and Material Handling

Description	Digi-Key Part No.	Price Each	Omron Part No.
UHF Bi-Static, EPC Class1, Compliant Reader / Writer - 915MHz	Z2636-ND	2395.00	V740-BA50C22A-US
UHF Mono-Static, EPC Class1, Compliant Reader / Writer - 915MHz	Z2637-ND	2195.00	V740-BA50C04-US

Antenna and Antenna Cables for V740 Series

Description	Digi-Key Part No.	Price Each	Omron Part No.
Antenna for Mono-Static Reader	Z2639-ND	250.00	V740-HS01CA
Antenna for Bi-Static Reader	Z2638-ND	495.00	V740-HS02CA
Antenna Cable (3-Meter) 1 Cable per Antenna	Z2640-ND	60.00	V740-A01 3M
Antenna Cable (10-Meter) 1 Cable per Antenna	Z2641-ND	150.00	V740-A01 10M

V720 Series Generation 1 — Long Range General Use Type

Description	Digi-Key Part No.	Price Each	Omron Part No.
High Frequency, Long Range Reader / Writer - 13.56MHz	Z2643-ND	3615.01	V720S-BC5D4A-US

Antenna and Power Cables for V720 Series

Description	Digi-Key Part No.	Price Each	Omron Part No.
High Frequency 4 Watt Antenna Unit for V720 Series	Z2644-ND	1750.00	V720-HS04
Antenna Cable 3-Meter for V720 Series	Z2645-ND	262.00	V720-A40-US3.35M
Power Cable for V720 Series Reader	Z2646-ND	120.00	V720-A51
RS232 Communications Cable for V720 Series 3-Meter	Z2647-ND	157.00	V720-A62

Panasonic ZigBee™ Communication Module IEEE 802.15.4

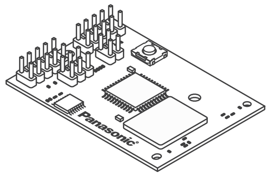

A low rate/low power communication device based upon the Freescale ZigBee Sensor Application Reference Design (SARD) development platform. It operates in the ISM 2.4 GHz band, and is fully compliant with the IEEE 802.15.4 standard. It's shipped ready to be downloaded with Freescale's 802.15.4 PHY/MAC layer and the ZigBee protocol layer. The module uses Freescale's 802.15.4 transceiver (MC13193), microcontroller (GT60) and is licensed to use all released Freescale ZigBee Protocol stack layer software. Further, the PAN802154 has an on-board RS-232 interface IC and two on-board printed antennas that are etched on both sides of the board for optimum RF sensitivity. The entire RF section is shielded to prevent RF leakage and further improve RF performance. Tested to fully comply with current FCC requirements for 2.4 GHz ISM band application allowing the customer to complete and bring the end product to the market much quicker. The application profile or program can be developed with in-house SW staff or with any third-party SW development contractor including Panasonic. **Features:** • Fully supports ZigBee, 802.15.4, or Simple MAC Application • 2.4 GHz ISM, ZigBee • 16 Channels, 5 MHz channel spacing, Full Spectrum Encode and Decode (IEEE Standard 802.15.4); up to 250 Kbps bit rate • RS-232 port; 2 Analog inputs selectable to 10bit A/D Converter; and up to 8 Digital I/O ports on easy to connect header connector • Background Debug Feature • 1 Switch and 1 LED for control and monitoring • Output power: 0dBm typical • RX Sensitivity: -92 dBm typical at 1.0% Packet Error Rate • Shielded RF Section for improved performance • On board printed antenna or optional connector for external antenna • Commercial and Industrial Operating Temperature Range • Power Supply Range: 2.2VDC to 3.4VDC without using RS-232 capability; 3.0 VDC to 3.4 VDC with using RS-232 capability **Applications:** • Home Automation/Appliance control and monitoring • Industrial/Security/Asset Tracking • Commercial/Electronic Labeling • Medical/Patient Monitor (non-critical) **Performance Specifications:** • **Dimensions:** 48mm x 34mm x 3mm (with onboard printed antennas) • **Operating Voltage**: 2.2 ~ 3.4 Volts DC • **Operating Temperature:** -20°C ~ 70°C • **Power Consumption:** Tx: 35mA Max., Rx: 40mA Max. • **Hybernate/Doze:** Dormant is less than 100µa • **Output RF Power:** 0 dBm typical, 3 dBm max. • **Receive Sensitivity:** -92 dBm typ. • **CPU with 4K RAM; 60K Flash:** 8 bit • **Bit Rate:** 250 Kbits/sec., 128 bytes/4ms • **Interface:** RS-232 Header, Header connector for 8 digital I/Os; and 2 analog inputs (2 ports - 10 bit A/D Converter)

P13479-ND.......... **$27.40**

ZigBee™ Modem PAN4555

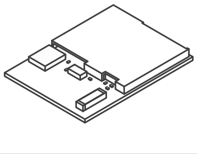

The PAN4555 module is a short range, low power, 2.4GHz ISM band transceiver which includes a complete 802.15.4 physical layer (PHY) modem. Designed for the IEEE 802.15.4 wireless standard, an appropriate microcontroller (MCU) with reference oscillator provides a cost effective solution for short-range data links and networks. Demo software is included and can be scaled to fit the application from simple point to point proprietary systems to ZigBee networking. This module complies to EN300328, ARIB STD-T66 and is FCC Part 15 Certified. **Features:** • Very small size (12.2mm x 16.4mm x 2.2mm) • 2 antenna options: Single port 50Ω or ceramic antenna • 16 selectable channels with 250 kbps in the 2.4GHz band • Low power modes for increased battery life • High sensitivity of -92 dBm typical at 1% Packet Error Rate • 0 dBm typical output power programmable over a 30 dB range • Low supply voltage (2.0V ~ 3.4V, 2.7V typical) • Link Quality and Clear Channel Assessment capability • 60k Flash and 4k RAM memory • 4 channel A/D converter with 10 bit for fast and easy conversion from analog inputs-such as temperature, pressure and fluid levels-to digital values • 3 channel 16 bit timer/pulse width modulation (TPM) outputs • BDM port for direct download programming • In total 20 digital I/O lines with programmable pull-ups and few with high-current driver • **Operating Temperature Range:** -40°C ~ 85°C **Applications:** • Remote control and wire replacement in industrial systems such as wireless sensor networks • Factory/home automation and motor/lighting control • Inventory management and RF ID tagging and AMR • Environmental, patient, or fitness monitoring

Description	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Pricing 500	Panasonic Part No.
2.4GHz Module with Antenna	P13683CT-ND	18.42	17.05	15.78	P13683TR-ND	7197.00	ENWC9A08A3EF
2.4GHz Module with SMD Pad	P13684CT-ND	18.42	17.05	15.78	P13684TR-ND	7197.00	ENWC9A09N4EF

ZigBee™ Modem PAN4570

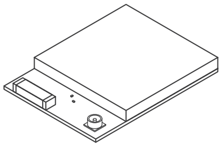

The PAN4570 module is a short range, low power, 2.4GHz ISM band transceiver using the Ember™ EM250 single chip solution for ZigBee, an IEEE802.15.4 compliant transceiver with a 16 bit XAP2b microprocessor. With an added onboard reference oscillators and optimized RF frontend circuitry PAN4570 provides the complete hardware needed for a ZigBee solution. PAN4570 utilizes EmberZNet (sold separately), the Ember ZigBee compliant software stack, which is a ZigBee profile-ready platform compliant solution. A reliable Application Programming Interface based on the ZigBee specification is provided for the ease of the creation of application profiles. Additional regulator and 32kHz crystal can be mounted in addition on customer demand. **Features:** • 3 antenna options: Plug, single port 50Ω or ceramic antenna • 16 selectable channels with 250 kbps in the 2.4GHz band • 3 different power modes for increased battery life • High sensitivity of -98 dBm typical at 1% Packet Error Rate • +3 dBm output power (+5 dBm in boost mode) • Low supply voltage (2.1V ~ 3.6V, 3.0V typical) • Small size (20.0mm x 26.5mm x 3.0mm) • Onboard low power regulator • 128k Flash and 5k SRAM memory • Link quality and clear channel assessment capability • All of the 17 GPIO of EM250 are available at the module pads, which are multiplexed to GPIO, UART, SPI, I2C or up to four analog inputs to an ADC and two timer waveform outputs • Critical portions of IEEE802.15.4-2003 plus a first-line filter for non-intended packets are realized in hardware, thus reducing the workload on the µC • **Operating Temperature Range:** -40°C ~ 85°C. **Applications:** • Remote control and wire replacement in industrial systems such as wireless sensor networks • Factory/home automation and motor/lighting control • Inventory management and RF ID tagging and AMR • Environmental, patient, or fitness monitoring

Description	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Pricing 500	Panasonic Part No.
2.4GHz Ember Module with Antenna	P13685CT-ND	34.52	31.94	29.56	P13685TR-ND	13485.50	ENWC9A02A3E
2.4GHz Ember Module U.FL	P13686CT-ND	34.52	31.94	29.56	P13686TR-ND	13485.50	ENWC9A03N2E
2.4GHz Ember Module SMD Pad	P13687CT-ND	34.52	31.94	29.56	P13687TR-ND	13485.50	ENWC9A04N4E

Pulse Wireless Antennas

A TECHNITROL COMPANY

Features: • For WLAN devices using WiFi (802.11) Bluetooth® and ZigBee™ • Omni-Directional radiation pattern provides broad 360° coverage • One-quarter wavelength dipole configuration (one-eighth for W1043) • Reverse SMA (Female) • Polarization: Vertical • Radiation: Omni • Color: Black

Fig.	Frequency	Gain (dBi)	Impedance (NOM)	VSWR	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	500	Pulse Part No.
1	2.4 ~ 2.5 GHz	3.2	50Ω	≤1.9	—	553-1310-ND	4.65	3.10	2.48	2.21	W1027
2	2.4 ~ 2.5 GHz	2.0	50Ω	≤2.0	—	553-1471-ND†	5.08	3.50	2.89	2.54	W1010
3	2.4 ~ 2.5 GHz	2.0	50Ω	≤2.0	—	553-1309-ND	4.05	2.70	2.21	1.96	W1030
4	2.4 ~ 2.5 GHz	3.2	50Ω	≤2.0	12.5	553-1311-ND	5.70	3.71	3.04	2.71	W1037
	2.4 ~ 2.5 GHz	4.9	50Ω	≤2.0	12.5	553-1476-ND	6.37	4.66	3.80	3.43	W1038
	860 ~ 928 MHz	1.0	50Ω	≤2.0	14.0	553-1473-ND	5.27	3.81	3.12	2.78	W1047
	902 ~ 928 MHz	3.0	50Ω	≤2.0	14.0	553-1474-ND	7.54	5.51	4.50	4.06	W1063
5	2.4 and 5.0 GHz	2.0	50Ω	≤2.0	—	553-1313-ND*	6.90	4.37	3.57	3.22	W1043
6	2.4 and 5.0 GHz	2.0	50Ω	≤2.0	—	553-1472-ND*	9.24	6.93	5.78	5.39	W1045
7	2.4 ~ 2.5 GHz	2.0	50Ω	≤2.0	—	553-1475-ND	4.81	3.42	2.80	2.50	W1034

* Dual-band, blade style antenna † Standard SMA (Male) Connector

Fig. 1

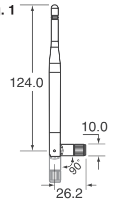

Fig. 2

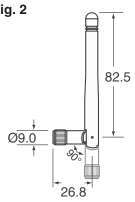

Fig. 3

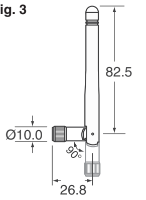

Fig. 4

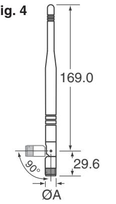

Fig. 5

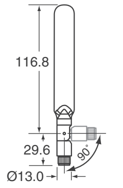

Fig. 6

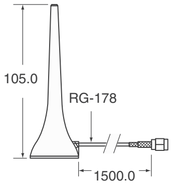

Fig. 7

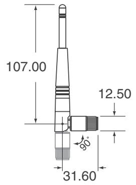

Radios.INC Receiver and Transmitter Modules

Radios Inc. provides receiver and transmitter modules based on the Micrel RF line of products for applications like keyless entry, remote access, periodic data transfer, and many more. The relay modules provide a decoder along with the receiver IC, allowing for control of powered systems remotely. The handheld transmitters provide a 2-button interface for remote communication with the desired receiver with the appropriate decoder. The HHDS-ML development systems provide an evaluation environment for range, firmware, and electrical testing. The DS-ML development systems include a breadboarding area and higher functionality testing of the devices. The HHDS-ML and DS-ML allow for development with any of the pinned receiver/transmitter modules, which are purchased separately.

Frequency (MHz)	Description	Package	Digi-Key Part No.	Price Each 1	25	100	Radios Inc. Part No.
			Receiver Modules				
433	Receiver Module OOK	18-DIP	694-1000-ND	9.16	8.39	7.07	MRX-001-433DR-B
	Receiver Module ASK/OOK	18-DIP	694-1001-ND	9.02	8.26	6.96	MRX-010-433DR-B
	Receiver Module OOK	18-DIP	694-1002-ND	9.03	8.27	6.97	MRX-011-433DR-B
	Receiver Module OOK	18-DIP	694-1003-ND	8.99	8.23	6.94	MRX-002-433DR-B
	Receiver Module OOK with SAW Filter and Low Noise Amp (LNA)	24-DIP	694-1004-ND	15.27	13.98	11.78	MRX-002SL-433DR-B

*Requires the purchase of desired transmitter/receiver module(s) to operate

(Continued)

Radios.INC Receiver and Transmitter Modules *(Cont.)*

Frequency (MHz)	Description	Package	Digi-Key Part No.	Price Each 1	25	100	Radios Inc. Part No.
433	Receiver Module OOK	18-DIP	694-1007-ND	9.00	8.24	6.94	MRX-007-433DR-B
	Receiver Module OOK	18-DIP	694-1008-ND	8.11	7.43	6.26	MRX-008-433DR-B
	Receiver Module OOK	18-DIP	694-1009-ND	9.00	8.24	6.94	MRX-009-433DR-B
	Receiver Module OOK with SAW Filter and Low Noise Amp (LNA)	24-DIP	694-1010-ND	12.91	11.82	9.96	MRX-009SL-433DR-B
915	Receiver Module OOK	18-DIP	694-1005-ND	9.82	8.99	7.58	MRX-005-915DR-B
	Receiver Module OOK with SAW Filter and Low Noise Amp (LNA)	24-DIP	694-1006-ND	14.15	12.95	10.91	MRX-005SL-915DR-B
Transmitter Modules							
433	Transmitter Module OOK	18-DIP	694-1011-ND	8.33	7.63	6.43	MTX-102-433DR-B
	Transmitter Module ASK/FSK	24-DIP	694-1013-ND	20.71	18.95	15.97	MTX-405-433DR-B
915	Transmitter Module OOK/ASK	18-DIP	694-1012-ND	10.06	9.21	7.76	MTX-103-915DR-B
Transceiver Module							
915	Transceiver Module FSK	24-DIP	694-1014-ND	25.84	23.65	19.93	MXR-505-915DR-B
Remote Control Receiver Modules							
—	Remote Control Receiver Module, 3-Relay Radios Inc Decoder	—	694-1015-ND	55.74	—	—	RCR-ML-010RI-3
	Remote Control Receiver Module, 3-Relay Keeloq Decoder	—	694-1016-ND	55.74	—	—	RCR-ML-010KL-3
	Remote Control Receiver Module, 3-Relay Holtek Decoder	—	694-1017-ND	56.13	—	—	RCR-ML-010HT-3
Handheld Transmitters							
433	2-Button Keyfob Transmitter, Radios Inc Encoder	—	694-1018-ND	20.44	—	—	HHTX-102-433RI-2B
	2-Button Keyfob Transmitter, Keeloq Encoder	—	694-1019-ND	21.49	—	—	HHTX-102-433KL-2B
	2-Button Keyfob Transmitter, Holtek Encoder	—	694-1020-ND	22.48	—	—	HHTX-102-433HT-2B
915	2-Button Keyfob Transmitter, Radios Inc Encoder	—	694-1021-ND	21.01	—	—	HHTX-103-915RI-2B
	2-Button Keyfob Transmitter, Keeloq Encoder	—	694-1022-ND	22.07	—	—	HHTX-103-915KL-2B
	2-Button Keyfob Transmitter, Holtek Encoder	—	694-1023-ND	23.05	—	—	HHTX-103-915HT-2B
RF Development Systems for Modules							
—	Microchip PIC MCU, 1-Unit	—	694-1024-ND*	95.00	—	—	HHDS-ML-P1
	Microchip PIC MCU, 2-Unit	—	694-1025-ND*	149.00	—	—	HHDS-ML-P2
	Texas Instrument MSP430 MCU, 1-Unit	—	694-1026-ND*	95.00	—	—	HHDS-ML-M1
	Texas Instrument MSP430 MCU, 2-Unit	—	694-1027-ND*	149.00	—	—	HHDS-ML-M2
	Microchip PIC MCU, 1-Unit	—	694-1028-ND*	149.00	—	—	DS-ML-P1
—	Microchip PIC MCU, 2-Unit	—	694-1029-ND*	295.00	—	—	DS-ML-P2
	Texas Instrument MSP430 MCU, 1-Unit	—	694-1030-ND*	149.00	—	—	DS-ML-M1
	Texas Instrument MSP430 MCU, 2-Unit	—	694-1031-ND*	295.00	—	—	DS-ML-M2

*Requires the purchase of desired transmitter/receiver module(s) to operate

RF Encoder/Decoder Chipset

The RF Solutions RF600E and RF600D are easy to use encoder and decoder ICs. They have been designed to achieve the maximum possible range from any radio/InfraRed transmitter/receiver set. Unlike other encoder/decoder devices, the RF600E/600D provide an unprecedented level of security which prevents copying or grabbing while also obtaining optimum range from the transmitter and receiver.

Features: Highly secure KEELOQ® protocol • Simple to use • Stand Alone operation • Achieves maximum range from RF modules • Decoder serial output • LED indication of transmission • Directly compatible with KEELOQ® decoder • Easy learn feature of transmitters

RF600D-ND	Receiver/Decoder 18-DIP	**$8.95**
RF600E-ND	Transmitter/Encoder 8-DIP	**$4.50**

Hand Held RF Meter

A miniature RF meter which can be used to show the presence of a radio signal. Briefly press the power switch and the LED bargraph shows RF activity within the local environment. The peak signal is held for one second. This can be invaluable when installing a radio system to determine if other RF signals are present (interference) and also validate the signal strength of the radio transmitter to be installed.

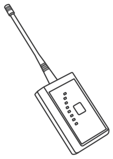

006-315R1-ND	Hand Held RF Meter 315MH	**$125.00**
006-433R2-ND	Hand Held RF Meter 433MH	**$125.00**

Wireless Communication

Fig. 1

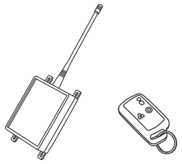

Fig. 2

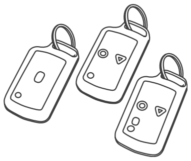

Fig. 3

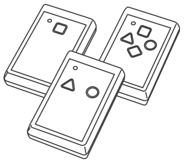

Fig. 4

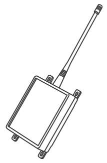

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each
Remote Control Systems				
AM Keyfob Systems				
1	1 Channel System, 12/24Vdc	315	118C1-315AR1-ND	114.50
	3 Channel System, 12/24 Vdc	315	118C3-315AR1-ND	130.25
2	AM Keyfob Transmitter, 1 Button	315	AM110C1-315-ND	21.25
	AM Keyfob Transmitter, 2 Button	315	AM110C2-315-ND	22.10
	AM Keyfob Transmitter, 3 Button	315	AM110C3-315-ND	22.85
—	RF Receiver/Decoder Hybrid	315	AMHIRK-315AR3-ND	34.20
FM Keyfob Systems				
3	FM Handheld Transmitter, 1 Switch	315	102C1-315FR1-ND	80.00
	FM Handheld Transmitter, 2 Switch	315	102C2-315FR1-ND	88.00
	FM Handheld Transmitter, 4 Switch	315	102C4-315FR1-ND	96.00
4	FM Remote Receiver Decoder	315	008-315F-ND	144.00
AM Radio Modules				
AM Super Hetrodyne Receivers				
—	Superhetrodyne Receiver	315	AMRRQ3-315-ND	18.95
	Superhetrodyne Receiver	433	AMRRQ3-433-ND	16.75
AM Miniature Super Regenerative Receiver				
—	SuperRegen Receiver, Miniature	433	AMHRR30-433-ND	10.95
AM Super Regenerative Receiver Modules				
—	SuperRegen Receiver	315	AMHRR3-315-ND	10.49
	SuperRegen Receiver	433	AMHRR3-433-ND	10.49

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each
4 Pin Hybrid Transmitter Modules				
—	Hybrid Transmitter Module, DIL Package	315	AMRT4-315-ND	9.99
	Hybrid Transmitter Module, DIL Package	433	AMRT4-433-ND	9.99
FM Radio Modules				
FM Hybrid Transmitter and Receiver Modules				
—	FM Transmitter, DIL Package	315	FMRTFQ1-315-ND	13.95
	FM Transmitter, DIL Package	433	FMRTFQ1-433-ND	12.99
	FM Transmitter, SIL Package	433	FMRTFQ2-433R-ND	13.50
	FM Receiver, SIL Package	315	FMRRFQ1-315-ND	28.25
	FM Receiver, SIL Package	433	FMRRFQ1-433-ND	25.75
	FM Receiver, SIL Package	433	FMRRFQ2-433-ND	22.15
FM Transceiver Module				
—	Transceiver Module, 2 Channels	433	FMRXQ1-433-ND	43.75
RF KEELOQ® Evaluation Kits				
—	RF KEELOQ® Evaluation Kit	315	RFEVAL2-315-ND	350.00
	RF KEELOQ® Evaluation Receiver	—	RFEVAL3-ND*	99.75
Book				
—	Introduction to Low Power Radio Book	—	BK-RADIO-ND	33.50

*PCB Assembly only (RF Modules and antenna not supplied)

Fig. 1
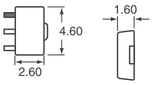

Fig. 2
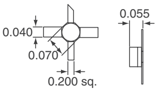

Fig. 3
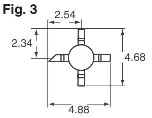

Fig. 4
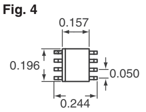

Fig. 5
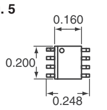

Fig. 6
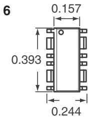

Fig. 7
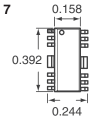

Fig. 8
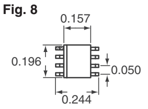

Fig. 9
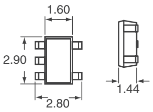

Fig. 10
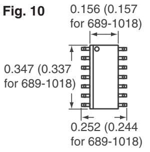
0.156 (0.157 for 689-1018)
0.347 (0.337 for 689-1018)
0.252 (0.244 for 689-1018)

Fig. 11
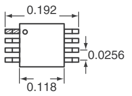

Fig. 12
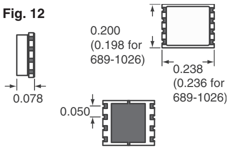

Fig. 13
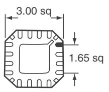

Fig. 14
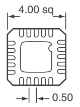

Fig. 15
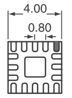

Fig. 16
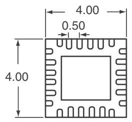

Fig.	Frequency (MHz)	Gain (dB)	Noise Figure (dB)	P_{1dB} (dBm)	OIP3 (dBm)	V_{CC}/ I_{CC} (V/mA)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	RFMD Part No.
GaAs HBT Gain Block Amplifiers															
1	DC ~ 6000	20.0	3.5	18.0	32.0	6.0/65	SOT-89	689-1020-1-ND	3.46	2.60	2.16	689-1020-2-ND	750	729.00	RF3374TR7
	DC ~ 6000	13.2	4.6	16.0	28.0	6.6/65	SOT-89	689-1021-1-ND	3.46	2.60	2.16	689-1021-2-ND	750	729.00	RF3375TR7
	DC ~ 6000	22.0	2.0	11.0	24.4	4.2/35	SOT-89	689-1022-1-ND	3.46	2.60	2.16	689-1022-2-ND	750	729.00	RF3376TR7
	DC ~ 6000	15.5	3.0	13.0	25.5	4.5/40	SOT-89	689-1023-1-ND	3.46	2.60	2.16	689-1023-2-ND	750	729.00	RF3377TR7
	DC ~ 6000	12.0	3.7	13.0	26.0	4.8/40	SOT-89	689-1024-1-ND	3.46	2.60	2.16	689-1024-2-ND	750	729.00	RF3378TR7
InGaP HBT Gain Block Amplifiers															
2	DC ~ 12000	13.0	5.1	13.0	27.1	3.9/50	4-Micro-X	689-1000-1-ND	6.75	6.40	6.26	689-1000-2-ND	1,000	4266.00	NBB-300-T1
	DC ~ 12000	12.5	4.9	13.8	24.0	5.0/50	4-Micro-X	689-1001-1-ND	6.75	6.40	6.26	689-1001-2-ND	1,000	4266.00	NBB-310-T1
	DC ~ 8000	16.5	4.3	13.0	28.1	3.9/47	4-Micro-X	689-1002-1-ND	6.75	6.40	6.26	689-1002-2-ND	1,000	4266.00	NBB-400T1
3	DC ~ 10000	10.7	4.9	11.1	27.0	3.8/50	4-Micro-X	689-1003-1-ND	3.17	2.54	1.98	689-1003-2-ND	1,000	1015.20	NLB-300T1
	DC ~ 10000	10.7	5.0	12.6	27.9	4.6/50	4-Micro-X	689-1004-1-ND	3.17	2.54	1.98	689-1004-2-ND	1,000	1015.20	NLB-310-T1
	DC ~ 6000	13.0	4.1	12.0	27.3	3.9/47	4-Micro-X	689-1005-1-ND	3.17	2.54	1.98	689-1005-2-ND	1,000	1015.20	NLB-400-T1
High Linearity Amplifiers															
4	1800 ~ 2500	12.0	—	31.0	40.0	3.0 ~ 6.5/350	8-SOIC	689-1006-1-ND	13.31	10.74	6.70	689-1006-2-ND	750	3863.70	RF2126TR7
5	DC ~ 2500	15.0	3.8	20.0	33.0	5.5/100	8-SOIC	689-1007-1-ND	6.82	5.14	3.42	689-1007-2-ND	750	1320.30	RF2312TR7
6	DC ~ 3000	14.3	4.9	22.0	37.0	8.5/180	CJ2BAT0	689-1009-1-ND	7.06	6.34	5.19	689-1009-2-ND	750	2592.00	RF2317TR7
7	5 ~ 1500	20.0	1.5	23.7	36.4	7.0/120	16-SOP	689-1010-1-ND	7.70	6.89	6.12	689-1010-2-ND	750	3645.00	RF2360TR7
1	300 ~ 3000	12.5	2.5	23.0	40.0	5.0/150	SOT-89	689-1019-1-ND	4.96	4.14	3.20	689-1019-2-ND	750	2065.50	RF3315TR7
8	450 ~ 2500	14.0	—	28.5	42.0	5 ~ 8/120	8-SOIC	689-1027-1-ND	7.54	6.52	5.35	689-1027-2-ND	750	3086.10	RF3807TR7
	450 ~ 2500	10.5	—	32.5	46.5	5 ~ 8/270	8-QFN	689-1028-1-ND	11.33	9.79	8.04	689-1028-2-ND	750	4633.20	RF3809TR7
4	800 ~ 2500	14.0	—	29.0	43.0	5.0/240	8-SOIC	689-1063-1-ND	10.00	7.73	5.39	689-1063-2-ND	750	3861.00	RF5187TR7
Low Noise Amplifiers															
9	150 ~ 2500	14.0	1.4	-6	4.0	3/5	SOT23-5	689-1008-1-ND	4.46	3.78	2.80	689-1008-2-ND	2,500	1620.00/M	RF2314TR7
	400 ~ 3000	15.0	1.3	-3.5	9.3	3.3/10	SOT23-5	689-1011-1-ND	3.44	2.68	2.16	689-1011-2-ND	2,500	918.00/M	RF2373TR7
—	900 ~ 4000	14.0	1.3	-5	7.0	3.3/10	8-QFN	689-1012-1-ND	2.92	2.50	1.85	689-1012-2-ND	2,500	1032.00/M	RF2374TR7
10	400 ~ 1100	14.0	1.8	—	4.0	5/14	14-SOIC	689-1013-1-ND	6.74	5.93	5.30	689-1013-2-ND	750	1838.70	RF2418TR7
Low Power Amplifiers															
11	12 ~ 385	48.0	5.0	—	0	2.7/13	8-MSOP	689-1017-1-ND	3.96	3.39	3.05	689-1017-2-ND	750	1790.10	RF2637TR7
Transmit / Receive Switch															
9	DC ~ 2500	—	—	27.0	39.0	3/0.5 (tx mode)	SOT23-5	689-1014-1-ND	1.81	1.60	1.14	689-1014-2-ND	2,500	658.80/M	RF2436TR7

Fig.	Frequency (MHz)	Gain (dB)	OIP3 @ 31dBm (dBm)	P_{1dB} (dBm)	PAE @ P_{1dB} (%)	V_{CC}/ I_{CQ} (V/mA)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	RFMD Part No.
Driver Amplifiers															
12	450 ~ 470	14.7	51	38	45	5 ~ 8/400	AIN	689-1025-1-ND	11.83	11.33	10.83	689-1025-2-ND	750	7549.20	RF3800TR7
	1500 ~ 2200	18	50	36	40	5 ~ 8/630	AIN	689-1026-1-ND	12.68	12.14	11.60	689-1026-2-ND	750	8091.90	RF3806TR7
13	800 ~ 950	32	—	34†	57	3.5/200	16-QFN	689-1030-1-ND	6.47	5.60	4.57	689-1030-2-ND	2,500	3531.60/M	RF5110GTR7

† 880-915MHz

Fig.	Frequency (MHz)	Broadband Noise Floor (dBm/Hz)	Carrier Suppression (dBc)	Sideband Suppression (dBc)	OIP3 (dBm)	V_{CC}/ I_{CC} (V/mA)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 750	RFMD Part No.
Quadrature Modulators / Demodulators														
14	700 ~ 2200	-156	40	43	20	2.7 ~ 3.3/85	20-QFN	689-1015-1-ND	12.32	10.71	9.16	689-1015-2-ND	4819.50	RF2483TR7
15	800 ~ 2500	-152.5	35	35	19	5/50	16-QFN	689-1016-1-ND	16.68	15.03	12.48	689-1016-2-ND	5067.00	RF2484TR7
10	0.1 ~ 250	—	25	30	—	3 ~ 6/10	14-SOIC	689-1018-1-ND	6.23	5.34	4.67	689-1018-2-ND	2527.20	RF2713TR7
16	800 ~ 2200	-152	40	40	20	2.7 ~ 3.3/112	24-QFN	689-1029-1-ND	10.89	9.41	7.73	689-1029-2-ND	4455.00	RF3854TR7

Description	Digi-Key Part No.	Price Each	RFMD Part No.
Evaluation Board for NBB-300	689-1055-ND	35.00	NBB-300-PCK
Evaluation Board for NBB-310	689-1056-ND	35.00	NBB-310-PCK
Evaluation Board for NBB-400	689-1057-ND	35.00	NBB-400-PCK
Evaluation Board for NLB-300	689-1059-ND	35.00	NLB-300-PCK
Evaluation Board for NLB-310	689-1060-ND	35.00	NLB-310-PCK
Evaluation Board for NLB-400	689-1061-ND	35.00	NLB-400-PCK
Evaluation Board for RF2126	689-1031-ND	168.75	RF2126PCK
Evaluation Board for RF2312 50Ω	689-1032-ND	168.75	RF2312PCK-50 OHM
Evaluation Board for RF2314	689-1033-ND	168.75	RF2314PCK
Evaluation Board for RF2317 50Ω	689-1034-ND	168.75	RF2317PCK-50 OHM
Evaluation Board for RF2360 50Ω	689-1035-ND	168.75	RF2360PCK-50OHM
Evaluation Board for RF2373	689-1036-ND	168.75	RF2373PCK-414
Evaluation Board for RF2374	689-1037-ND	168.75	RF2374PCBA-410
Evaluation Board for RF2418	689-1038-ND	168.75	RF2418PCK
Evaluation Board for RF2483	689-1040-ND	168.75	RF2483PCK-410
Evaluation Board for RF2484	689-1041-ND	168.75	RF2484PCK
Evaluation Board for RF2637	689-1058-ND	168.75	RF2637PCK-410
Evaluation Board for RF2713 Demodulator	689-1062-ND	168.75	RF2713PCK-D
Evaluation Board for RF2713 Modulator	689-1042-ND	168.75	RF2713PCK-M
Evaluation Board for RF3315 900MHz	689-1043-ND	168.75	RF3315PCK-411
Evaluation Board for RF3374	689-1044-ND	35.00	RF3374PCK-410
Evaluation Board for RF3375	689-1045-ND	35.00	RF3375PCK-410
Evaluation Board for RF3376	689-1046-ND	35.00	RF3376PCK-410
Evaluation Board for RF3377	689-1047-ND	35.00	RF3377PCK-410
Evaluation Board for RF3378	689-1048-ND	35.00	RF3378PCK-410
Evaluation Board for RF3800	689-1049-ND	168.75	RF3800PCK-416
Evaluation Board for RF3806	689-1050-ND	168.75	RF3806PCK-415
Evaluation Board for RF3807	689-1051-ND	168.75	RF3807PCK-415
Evaluation Board for RF3809	689-1052-ND	168.75	RF3809PCK-415
Evaluation Board for RF3854	689-1053-ND	168.75	RF3854PCK-410
Evaluation Board for RF5110G	689-1054-ND	168.75	RF5110GPCK-410

ROVING NETWORKS
WIRELESS FOR LESS

Bluetooth® Modules and Accessories

Roving Networks provides solutions for virtually any Bluetooth application. Utilizing CSR's BlueCore line of Bluetooth ICs, they provide modules with a small size, low power and high performance. The modules are compliant with 1.1/1.2/2.0 Bluetooth devices, allowing for ease of use. The SuperModules (RN-24x) provide a simple ASCII interface, with no need to develop a host Bluetooth stack. The adaptors provide rapid replacement of serial cables and an auto-connect feature, removing the need to Bluetooth network setup. The data acquisition module provides a low power sensor monitor/control module, with a simple interface and command structure.

Maximum Serial Data Rate	Device Power Class	Interface	Supply Voltage Typical (V)	Current TX Typical (mA)	Bluetooth Version	Antenna	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Roving Networks Part No.
Bluetooth Modules											
921.6 Kbps	Class 1	UART, USB, PCM	3.3	65	2.0	External	740-1006-ND	49.00	39.00	35.00	RN-21
3 Mbps	Class 1	UART, USB, PCM	3.3	65	2.0	Ceramic	740-1007-ND	59.00	49.00	39.00	RN-41
921.6 Kbps	Class 1	UART	3.3	40	2.0	Ceramic	740-1008-ND	99.00	91.00	76.01	RN-24S
921.6 Kbps	Class 1	UART	3.3	40	2.0	External, SMA	740-1009-ND	99.00	91.00	76.01	RN-24E
Bluetooth Adaptors											
232.4 Kbps	Class 1	RS232	5	65	2.0	Ceramic	740-1000-ND	99.00	—	—	RN-240M
232.4 Kbps	Class 1	RS232	5	65	2.0	Ceramic	740-1001-ND	99.00	—	—	RN-240F
232.4 Kbps	Class 1	RS422	5	65	2.0	Ceramic	740-1002-ND	149.00	—	—	RN-422M
232.4 Kbps	Class 1	RS232	5	50	2.0	SMA Included	740-1003-ND	199.00	—	—	RN-220XP
2 Mbps	Class 1	USB	5	65	2.0	Ceramic	740-1004-ND	49.00	—	—	RN-USB-T
2 Mbps	Class 1	USB	5	65	2.0	Ceramic	740-1005-ND	99.00	—	—	RN-USB-X

A/D Specifications	Device Power Class	Supply Voltage Typical (V)	Current TX Typical (mA)	Bluetooth Version	Antenna	Digi-Key Part No.	Price Each	Roving Networks Part No.
Bluetooth Data Acquisition Nodes								
8-Channel, 16-bit, 3kHz Sample	Class 1	6 ~ 12	75	2.0	Ceramic	740-1011-ND	299.00	RN-800S-CB
8-Channel, 16-bit, 3kHz Sample	Class 1	6 ~ 12	75	2.0	SMA Connector	740-1012-ND	349.00	RN-800S-E
Bluetooth Development Kits								
Bluetooth Module Development Kit						740-1013-ND	249.00	RN-DEV-D
Accessories								
Bluetooth Antenna, Stub 1", 2.4GHz, SMA Connector						740-1015-ND	7.50	RN-SMA-S
Bluetooth Antenna, 2.5" Right Angle, SMA Connector						740-1016-ND	10.00	RN-SMA-RA
Bluetooth Antenna, 4", SMA Connector						740-1017-ND	15.00	RN-SMA-4
Power Supply for Firefly, US only						740-1018-ND	7.00	RN-PS-US
Power Supply for Firefly, International Multi-Plug						740-1019-ND	15.00	RN-PS-INT

SEMTECH

RF Transceivers, GPS Modules and Development Kits

Semtech TrueRF™ product provides high data rates up to 153.2 kbps, drop-in modules are available for multiple frequencies. Output power is programmable on both the ICs and the modules. XM12xx modules come with antennas (RPSMA). GPS products include fully autonomous modules that can be interfaced to any application controller through a simple serial interface. Codecs feature a 16-bit Sigma-Delta ADC and 16-bit PWM DAC, operating down to 1.8V in either a TSSOP or Chip-Scale package. Data Acquisition features the unique ZoomingADC™ technology, includes low-power micro-controller based sensor interface.

RF Transceivers

Frequency (MHz)	Typical Supply Voltage (V)	Current (Rx)	Modulation	Output Device Type	Power (dBm)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing
TrueRF™ ICs — RoHS Compliant												
433 / 868 / 915	2.4 ~ 3.6	14mA	2-FSK	Wideband Transceiver	0 / +5 / +10 / +15	48-VQFN	XE1203FI063CT-ND†	8.75	5.81	4.90	2,300	4655.00/M
433 / 868 / 915	2.4 ~ 3.6	14mA	2-FSK	Narrow-band Transceiver	0 / +5 / +10 / +15	48-VQFN	XE1205I074CT-ND†	8.75	5.81	4.90	2,300	4655.00/M
433 / 868 / 915	2.0 ~ 3.6	14mA	2-FSK	Transmitter	+10	24-TQFN	SX1223I073CT-ND†	3.00	2.00	1.68	3,000	1620.00/M
Bluetooth® v1.2 SoC — RoHS Compliant												
—	1.8 ~ 3.6	32.1	—	Radio Interface	—	—	SX1441I077LFCT-ND†	10.38	6.89	5.81	2,000	5603.00/M
NEW! UHF — RoHS Compliant NEW!												
868 / 915 / 955	2.1 ~ 3.6	3mA	FSK / OOK	Wideband Transceiver	-8.5 ~ 12.5	32-TQFN	SX1211I084CT-ND†	3.75	2.49	2.10	3,000	2025.00/M
TrueRF Modules												
433	2.4 ~ 3.6	14mA	2-FSK	Wideband Transceiver Module	15	Module 30 x 55mm	XM1203FC433XE1-ND	112.50	74.70	63.00	—	—
868	2.4 ~ 3.6	14mA	2-FSK	Wideband Transceiver Module	15	Module 30 x 55mm	XM1203FC868XE1-ND	112.50	74.70	63.00	—	—
915	2.4 ~ 3.6	14mA	2-FSK	Wideband Transceiver Module	15	Module 30 x 55mm	XM1203FC915XE1-ND	112.50	74.70	63.00	—	—
433	2.4 ~ 3.6	14mA	2-FSK	Narrow-band Transceiver	15	Module 30 x 55mm	XM1205C433XE1-ND	112.50	74.70	63.00	—	—
868	2.4 ~ 3.6	14mA	2-FSK	Narrow-band Transceiver	15	Module 30 x 55mm	XM1205C868XE1-ND	112.50	74.70	63.00	—	—
915	2.4 ~ 3.6	14mA	2-FSK	Narrow-band Transceiver	15	Module 30 x 55mm	XM1205C915XE1-ND	112.50	74.70	63.00	—	—
Kits												
Evaluation Starter Kit for the XE1203 433MHz							XE1203SKC433XE2-ND	343.00	—	—	—	—
Evaluation Starter Kit for the XE1203 868MHz							XE1203SKC868XE2-ND	343.00	—	—	—	—
Evaluation Starter Kit for the XE1203 915MHz							XE1203SKC915XE2-ND	343.00	—	—	—	—
Evaluation Starter Kit for the XE1205 433MHz							XE1205SKC433XE1-ND	343.00	—	—	—	—
Evaluation Starter Kit for the XE1205 868MHz							XE1205SKC868XE1-ND	343.00	—	—	—	—
Evaluation Starter Kit for the XE1205 915MHz							XE1205SKC915XE1-ND	343.00	—	—	—	—
Evaluation Starter Kit for the SX1211 868MHz							SX1211SK868-ND◆ ***NEW!***	250.00	—	—	—	—
Evaluation Starter Kit for the SX1211 915MHz							SX1211SK915-ND◆ ***NEW!***	250.00	—	—	—	—
Evaluation Starter Kit for the XE1223 433MHz							SX1223SK433-ND◆	413.00	—	—	—	—
Evaluation Starter Kit for the XE1223 868MHz							SX1223SK868-ND◆	413.00	—	—	—	—
Evaluation Starter Kit for the XE1223 915MHz							SX1223SK915-ND◆	413.00	—	—	—	—

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

(Continued)

GPS

Power Consumption	Position Accuracy	Sensitivity (dBm)	Start Time (Hot)	Start Time (Warm)	Antenna Included	Module Size (mm)	Digi-Key Part No.	Price Each 1	25	100
19mA	<5 CEP (No software assist)	-143	<12 Seconds	<32 Seconds	No	31.59 x 26.59 x 11.2	RGPSM002-ND	68.75	45.65	38.50
19mA	<5 CEP (No software assist)	-143	<12 Seconds	<32 Seconds	Yes	31.59 x 26.59 x 11.2	RGPSM002WA-ND	79.75	52.96	44.66
25mA	<5 CEP (No software assist)	-143	<12 Seconds	<32 Seconds	No	38 x 26.5	RGPSM202-ND	82.50	54.78	46.20
Evaluation Kit										
Evaluation Kit for RGPSM002, includes module, development board, CD with documentation, antenna and USB Cable							RGPSD012-ND	525.00	—	—

CODECs

RoHS

ADC	SNR (Fsync=20kHz)	THD (Fsync=20kHz, 1/4 FS)	Supply Voltage (V)	Sampling Rate (kHz)	DAC	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing
16-bit Σ Δ	78	0.5	1.8	4-48	16-bit PWM	20-TSSOP	XE3005I033CT-ND	4.38	2.91	2.45	2,500	2328.00/M
16-bit Σ Δ	78	0.5	1.8	4-48	16-bit PWM	20-UCSP	XE3005I064CT-ND	4.10	2.73	2.30	2,000	2181.00/M

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Data Acquisition - ZoomingADC™

MCU MIPS	Max Speed CPU (MHz)	RAM (bytes)	Supply Voltage Min. / Max.	MTP (Multiple time Programmable ROM) KB	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing
2	4	520	2.4 / 5.5	22	-40°C ~ 85°C	44-LQFP	XE8801AMI027LF-ND◆	11.43	7.59	6.40	—	—
2	4	1032	2.4 / 5.5	22		100-LQFP	XE8802MI035LF-ND◆	18.30	12.16	10.25	—	—
2	5	520	2.4 / 5.5	22		64-LQFP	XE8805AMI028LF-ND◆	12.38	8.22	6.93	—	—
2.5	5	520	2.4 / 5.5	22		32-TQFP	XE8806AMI026CT-ND◆†	7.55	5.02	4.23	2,000	4017.00/M
5	5	520	2.4 / 5.5	22		32-TQFP	XE8807AMI026CT-ND◆†	7.55	5.02	4.23	2,000	4017.00/M
—	—	—	2.4 / 5.5	—		44-MLPG	SX8722I070LFCT-ND◆†	11.23	7.46	6.29	2,000	6062.00/M
—	—	—	2.4 / 5.5	—	-40°C ~ 125°C	12-MLPD	SX8723E083CT-ND◆† ***NEW!***	4.50	2.99	2.52	3,000	2430.00/M
—	—	—	2.4 / 5.5	—		16-MLPQ	SX8724E082CT-ND◆† ***NEW!***	5.50	3.66	3.08	3,000	2970.00/M
—	—	—	2.4 / 5.5	—		12-MLPD	SX8725E083CT-ND◆† ***NEW!***	3.58	2.38	2.01	3,000	1930.50/M
Evaluation and Programming Boards												
Evaluation Board for the XE8801							XE8000EV101-ND	310.00	—	—	—	—
Evaluation Board for the XE8805							XE8000EV104-ND	310.00	—	—	—	—
Evaluation Board for the XE8806/XE8807							XE8000EV108-ND	310.00	—	—	—	—
Evaluation Board for the XE8802							XE8000EV110-ND	440.00	—	—	—	—
Program Board and the ProStart2 Card for the XE88xx series							XE8000MP-ND	280.00	—	—	—	—
Evaluation Board for the SX8722							XE8000EV120-ND◆	112.00	—	—	—	—
Evaluation Board for the SX8723/24							XE8000EV121-ND◆ ***NEW!***	200.00	—	—	—	—

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

SILICON LABS

2.4GHz ZigBee™ Development Kit

The 2.4GHz ZigBee Development Kit (ZigBee-2.4-DK) includes all hardware and software necessary to immediately begin developing ZigBee network solutions. This comprehensive development platform allows customers to focus on application development rather than hardware selection and integration. Silicon Laboratories' industry-compliant ZigBee development platform benefits customers by ensuring multi-vendor interoperability.

The ZigBee-2.4-DK contains the following items: • Six 2.4GHz 802.15.4 Development Boards with Antennas • One 9V, 1.5A Universal Power Supply • One USB Debug Adapter • Two USB Cables • Six 9V Batteries

336-1275-ND 2.4GHz ZigBee Development Kit **$993.75**

802.15.4-2.4-DK Development Kit

The 2.4GHz 802.15.4 Development Kit (802.15.4-2.4-DK) includes all of the hardware and software necessary to immediately begin developing an 802.15.4 solution. This comprehensive development platform allows customers to focus on application development rather than hardware selection and integration. Silicon Laboratories' industry-compliant (tested for compliance by TUV Rheinland) 802.15.4 development platform benefits customers by ensuring multi-vendor interoperability.

The 802.15.4-2.4-DK contains the following items: • Two 2.4GHz 802.15.4 ZigBee Target Boards • Two Antennas • Two 9V batteries • 2.4GHz 802.15.4 Development Kit User's Guide • AC to DC power adapter • USB debug adapter (USB to debug interface) • Two USB cables

336-1295-ND 2.4GHz 802.15.4-2.4-DK Development Kit **$564.25**

RF Synthesizers

Silicon Laboratories' wireless solutions are the world's most integrated, robust, reliable and easiest to use wireless solutions available in the market today. By eliminating more discretes and requiring fewer external components than alternate solutions, our products empower our customers to add value-rich features and speed time to market. Best of all, we develop and design these world-class products in proven, standard CMOS process technology.

Features: • CMOS RF synthesizers with integrated VCOs, loop filters and varactors • Low profile packages

Description	RF1 (MHz)	RF2 (MHz)	IF (MHz)	Settling Time (µs)	Input RF (MHz)	Package	Digi-Key Part No.	Price Each 1	25	Silicon Labs Part No.	Evaluation Board Digi-Key Part No.	Price Each	Silicon Labs Part No.
IF OUT, Lead Free, QFN	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200§	2 ~ 26	28-QFN	336-1170-ND◆	5.96	5.30	SI4112-D-GM	—	—	—
IF OUT, Lead Free, TSSOP	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200§	2 ~ 26	24-TSSOP	336-1171-ND◆	5.96	5.30	SI4112-D-GT	—	—	—
General Purpose	900 ~ 2050	750 ~ 1500	N/A	200§	2 ~ 26	28-MLP	336-1099-ND◆	8.84	7.86	SI4113-D-GM	336-1100-ND	225.00	SI4113M-EVB
RF1/RF2 OUT, Lead Free, TSSOP	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200§	2 ~ 26	24-TSSOP	336-1172-ND◆	8.84	7.86	SI4113-D-GT	—	—	—
General Purpose	N/A	750 ~ 1500	62.5 ~ 1000	200§	2 ~ 26	28-MLP	336-1103-ND◆	8.84	7.86	SI4122-D-GM	336-1104-ND	225.00	SI4122M-EVB
RF2/IF OUT, Lead Free, TSSOP	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200§	2 ~ 26	24-TSSOP	336-1173-ND◆	8.84	7.86	SI4122-D-GT	—	—	—
RF1/IF OUT, Lead Free, QFN	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200§	2 ~ 26	28-QFN	336-1174-ND◆	8.84	7.86	SI4123-D-GM	—	—	—
802.11b.g and Ism Band	N/A	2025 ~ 2300	62.5 ~ 1000	80†	2 ~ 50	28-MLP	336-1111-ND	8.73	7.86	SI4126-BM	—	—	—
2.3GHz/IF OUT	2300 ~ 2500	2025 ~ 2300	62.5 ~ 1000	80†	2 ~ 50	28-MLP	336-1176-ND	8.73	7.86	SI4126-F-BM	—	—	—
2.3GHz/IF OUT, Lead Free	N/A	2025 ~ 2300	62.5 ~ 1000	100†	2 ~ 50	28-MLP	336-1289-5-ND◆	8.84	7.86	SI4126-F-GM	—	—	—
General Purpose	900 ~ 2050	750 ~ 1500	62.5 ~ 1000	200§	2 ~ 26	28-MLP	336-1113-ND◆	11.03	9.80	SI4133-BM	—	—	—
RF1/RF2/IF OUT, Lead Free, TSSOP	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200§	2 ~ 26	24-TSSOP	336-1177-ND◆	11.03	9.80	SI4133-D-GT	—	—	—
802.11b.g and Ism Band	2300 ~ 2500	2025 ~ 2300	62.5 ~ 1000	80†	2 ~ 50	28-MLP	336-1118-ND	10.89	9.80	SI4136-BM	336-1119-ND	225.00	SI4136M-EVB
2.5GHz/2.3GHz/IF OUT, Lead Free	2300 ~ 2500	2025 ~ 2300	62.5 ~ 1000	80†	2 ~ 50	28-QFN	336-1178-ND◆	11.03	9.80	SI4136-F-GM	—	—	—
2.5GHz/2.3GHz/IF OUT, Lead Free	2300 ~ 2500	2025 ~ 2300	62.5 ~ 1000	100†	2 ~ 50	24-TSSOP	336-1291-5-ND◆	11.03	9.80	SI4136-F-GT	336-1119-ND	225.00	SI4136M-EVB

§ For a 200kHz update rate † For update rates > 500kHz ◆ ***RoHS Compliant***

Broadcast Products

FM Radio Tuners

Features: • Broadcast FM Radio Tuners for portable applications • Highly integrated, globally compliant and easy to implement • Best-in-class-performance

Description	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
CMOS digital FM tuner with integrated crystal oscillator support	336-1378-ND◆	8.79	7.03	5.63	SI4700-B15-GM
Includes digital processor for the European Radio Data System (RDS) and the US Radio Broadcast Data System (RBDS)	336-1379-ND◆	10.12	8.09	6.48	SI4701-B15-GM
	Evaluation Boards				
Evaluation Board for SI4701	336-1381-ND	125.00	——	——	SI4701-B-EVB

◆ ***RoHS Compliant***

RF Amplifiers and VCOs

Sirenza Product by Series:
• **SBA**, **SBB**, **SBF and SBW Series**: InGaP high linearity Medium Power Driver amps (Gain Blocks) • **SGA Series**: SiGe general purpose gain blocks (Medium Power) • **SGL Series**: SiGe low noise amplifiers • **SHF Series**: GaAs HFET discrete transistors • **SLD Series**: LDMOS power transistors • **SPA Series**: GaAs Class A power amplifiers • **STA Series**: InGaP Class AB power amplifier for WLAN and WiMAX applications • **STQ Series**: Direct Quadrature Demodulator • **SXB Series**: InGaP/GaAs HBT power amplifier • **SZA Series**: InGaP 5V Class AB power amplifier for WLAN and WiMAX • **VCO790 Series**: Wideband 5V VCOs • **VCO793 Series**: Wideband 12V VCOs

Fig. 1

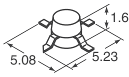

Fig. 2

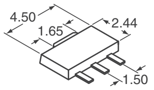

Fig. 3

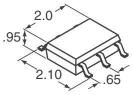

Fig. 4

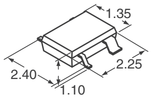

Fig. 5

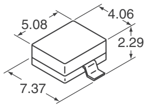

Fig. 6

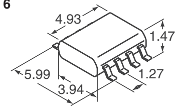

Fig. 7

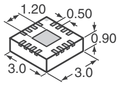

Fig. 8 Exposed Thermal Pad Zone: 3.0 sq.

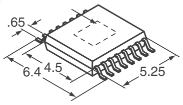

Fig. 9

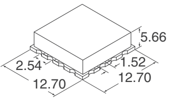

Fig. 10

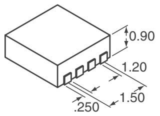

Fig.	Gain dB (@1.95GHz)	P1dB dBm (Typ.)	Bandwidth (MHz)	VD V (Typ.)	ID mA (Typ.)	Size	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Sirenza Microdevices Part No.
1	14.2	19.0	5000	5	80	SOT-86	599-1000-1-ND◆	2.08	1.93	1.80	599-1000-2-ND◆	1,000	1550.00	SBA-4086Z
	17.2	19.5	5000	4.9	80	SOT-86	599-1002-1-ND◆	2.08	1.93	1.80	599-1002-2-ND◆	1,000	1550.00	SBA-5086Z
	9.3	6.7	5000	2.2	20	SOT-86	599-1013-1-ND◆	.98	.94	.88	599-1013-2-ND◆	3,000	620.00/M	SGA-2186Z
	14.0	7.0	5000	2.2	20	SOT-86	599-1015-1-ND◆	.98	.94	.88	599-1015-2-ND◆	3,000	620.00/M	SGA-2286Z
	15.3	7.5	2800	2.7	20	SOT-86	599-1017-1-ND◆	.98	.94	.88	599-1017-2-ND◆	3,000	620.00/M	SGA-2386Z
	16.7	7.5	5000	2.7	20	SOT-86	599-1019-1-ND◆	.98	.94	.88	599-1019-2-ND◆	3,000	620.00/M	SGA-2486Z
	13.0	11.3	5000	2.6	35	SOT-86	599-1021-1-ND◆	1.10	1.02	.97	599-1021-2-ND◆	3,000	810.00/M	SGA-3286Z
	15.3	10.7	5000	2.6	35	SOT-86	599-1023-1-ND◆	1.10	1.02	.97	599-1023-2-ND◆	3,000	810.00/M	SGA-3386Z
	18.0	12.5	5000	2.9	35	SOT-86	599-1025-1-ND◆	1.10	1.02	.97	599-1025-2-ND◆	3,000	810.00/M	SGA-3486Z
	20.0	12.5	5000	3.25	35	SOT-86	599-1027-1-ND◆	1.10	1.02	.97	599-1027-2-ND◆	3,000	810.00/M	SGA-3586Z
	9.2	12.4	5000	3.2	45	SOT-86	599-1029-1-ND◆	1.10	1.02	.97	599-1029-2-ND◆	3,000	810.00/M	SGA-4186Z
	12.0	13.0	5000	3.2	45	SOT-86	599-1031-1-ND◆	1.10	1.02	.97	599-1031-2-ND◆	3,000	810.00/M	SGA-4286Z
	14.6	13.0	4500	3.2	45	SOT-86	599-1033-1-ND◆	1.10	1.02	.97	599-1033-2-ND◆	3,000	810.00/M	SGA-4386Z
	15.9	12.8	4500	3.2	45	SOT-86	599-1035-1-ND◆	1.10	1.02	.97	599-1035-2-ND◆	3,000	810.00/M	SGA-4486Z
	17.9	13.7	4000	3.6	45	SOT-86	599-1037-1-ND◆	1.55	1.52	1.47	599-1037-2-ND◆	3,000	1150.00/M	SGA-4586Z
	12.0	14.0	5000	3.5	60	SOT-86	599-1038-1-ND◆	1.55	1.52	1.47	599-1038-2-ND◆	3,000	1150.00/M	SGA-5286Z
	14.9	14.7	5000	3.6	60	SOT-86	599-1040-1-ND◆	1.55	1.52	1.47	599-1040-2-ND◆	3,000	1150.00/M	SGA-5386Z
	16.3	15.0	3500	3.5	60	SOT-86	599-1042-1-ND◆	1.55	1.52	1.47	599-1042-2-ND◆	3,000	1150.00/M	SGA-5486Z
	18.7	15.8	4000	3.9	60	SOT-86	599-1044-1-ND◆	1.55	1.52	1.47	599-1044-2-ND◆	3,000	1150.00/M	SGA-5586Z
	12.4	17.8	5500	4	75	SOT-86	599-1046-1-ND◆	1.55	1.52	1.47	599-1046-2-ND◆	3,000	1150.00/M	SGA-6286Z
	13.5	19.0	5000	4.9	80	SOT-86	599-1048-1-ND◆	1.55	1.52	1.47	599-1048-2-ND◆	3,000	1150.00/M	SGA-6386Z
	16.4	18.5	4500	5.1	75	SOT-86	599-1050-1-ND◆	1.55	1.52	1.47	599-1050-2-ND◆	3,000	1150.00/M	SGA-6486Z
	18.4	19.0	2500	4.9	80	SOT-86	599-1052-1-ND◆	1.55	1.52	1.47	599-1052-2-ND◆	3,000	1150.00/M	SGA-6586Z
2	14.6	19.0	4400	5	80	SOT-89	599-1001-1-ND◆	2.08	1.93	1.80	599-1001-2-ND◆	1,000	1550.00	SBA-4089Z
	18.0	19.5	4400	4.9	80	SOT-89	599-1003-1-ND◆	2.08	1.93	1.80	599-1003-2-ND◆	1,000	1550.00	SBA-5089Z
	15.5†	19.0	50 ~ 850	5	90	SOT-89	599-1004-1-ND◆	2.87	2.64	2.43	599-1004-2-ND◆	1,000	2050.00	SBB-1089Z
	20.0†	21.0	50 ~ 850	5	90	SOT-89	599-1005-1-ND◆	2.87	2.64	2.43	599-1005-2-ND◆	1,000	2050.00	SBB-2089Z
	15.5	19.5	50 ~ 6000	5	80	SOT-89	599-1006-1-ND◆	2.51	2.31	2.12	599-1006-2-ND◆	1,000	1800.00	SBB-4089Z
	20.0	20.5	50 ~ 6000	5	75	SOT-89	599-1007-1-ND◆	2.51	2.31	2.12	599-1007-2-ND◆	1,000	1800.00	SBB-5089Z
	14.7‡	19.9	500	4.9	90	SOT-89	599-1008-1-ND◆	2.91	2.70	2.52	599-1008-2-ND◆	1,000	2180.00	SBF-4089Z
	19.5‡	20.7	500	4.9	90	SOT-89	599-1009-1-ND◆	2.91	2.70	2.52	599-1009-2-ND◆	1,000	2180.00	SBF-5089Z
	18.0∆	19.4	6000	4.9	80	SOT-89	599-1010-1-ND◆	6.50	5.11	4.65	599-1010-2-ND◆	1,000	3850.00	SBW-5089Z
	12.7	14.4	5000	3.5	60	SOT-89	599-1039-1-ND◆	1.22	1.16	1.09	599-1039-2-ND◆	3,000	970.00/M	SGA-5289Z
	15.4	15.0	4500	3.6	60	SOT-89	599-1041-1-ND◆	1.22	1.16	1.09	599-1041-2-ND◆	3,000	970.00/M	SGA-5389Z
	17.9	14.6	4000	3.3	60	SOT-89	599-1043-1-ND◆	1.22	1.16	1.09	599-1043-2-ND◆	3,000	970.00/M	SGA-5489Z
	20.8	16.2	4000	3.9	60	SOT-89	599-1045-1-ND◆	1.22	1.16	1.09	599-1045-2-ND◆	3,000	970.00/M	SGA-5589Z
	12.6	17.8	4500	4	75	SOT-89	599-1047-1-ND◆	1.22	1.16	1.09	599-1047-2-ND◆	3,000	970.00/M	SGA-6289Z
	14.0	18.9	4500	4.9	80	SOT-89	599-1049-1-ND◆	1.22	1.16	1.09	599-1049-2-ND◆	3,000	970.00/M	SGA-6389Z
	17.5	18.7	3500	5.1	75	SOT-89	599-1051-1-ND◆	1.22	1.16	1.09	599-1051-2-ND◆	3,000	970.00/M	SGA-6489Z
	20.0	19.0	4000	4.9	80	SOT-89	599-1053-1-ND◆	1.22	1.16	1.09	599-1053-2-ND◆	3,000	970.00/M	SGA-6589Z
	18.5	20.0	3000	5	115	SOT-89	599-1054-1-ND◆	2.41	2.30	2.22	599-1054-2-ND◆	3,000	1730.00/M	SGA-7489Z
	12.2	25.5	3000	5	179	SOT-89	599-1056-1-ND◆	1.70	1.57	1.44	599-1056-2-ND◆	3,000	1120.00/M	SGA-9189Z
	12.0	27.5	3000	5	292	SOT-89	599-1057-1-ND◆	2.24	2.06	1.90	599-1057-2-ND◆	3,000	1480.00/M	SGA-9289Z
	14.6	30.2	50 ~ 6000	7	200	SOT-89	599-1061-1-ND	8.60	6.88	5.98	599-1061-2-ND	1,000	4520.00	SHF-0289
	17.0	24.2	5 ~ 2500	5.2	135	SOT-89	599-1068-1-ND◆	3.31	3.13	2.95	599-1068-2-ND◆	1,000	2392.00	SXB-2089Z
	15.0	27.5	400 ~ 2500	5	260	SOT-89	599-1069-1-ND◆	7.95	7.40	6.88	599-1069-2-ND◆	1,000	5950.00	SXB-4089Z
3	17.2	2.3	5000	2.5	11	SOT-363	599-1011-1-ND◆	.98	.94	.83	599-1011-2-ND◆	3,000	510.00/M	SGA-0363Z
	9.8	6.2	5000	2.2	20	SOT-363	599-1012-1-ND◆	.98	.94	.83	599-1012-2-ND◆	3,000	510.00/M	SGA-2163Z
	13.5	6.1	5000	2.2	20	SOT-363	599-1014-1-ND◆	.98	.94	.83	599-1014-2-ND◆	3,000	510.00/M	SGA-2263Z
	16.1	7.2	5000	2.7	20	SOT-363	599-1016-1-ND◆	.98	.94	.83	599-1016-2-ND◆	3,000	510.00/M	SGA-2363Z
	17.1	7.2	5000	2.7	20	SOT-363	599-1018-1-ND◆	.98	.94	.83	599-1018-2-ND◆	3,000	510.00/M	SGA-2463Z
	13.6	10.9	5500	2.6	35	SOT-363	599-1020-1-ND◆	1.02	.95	.91	599-1020-2-ND◆	3,000	710.00/M	SGA-3263Z
	15.9	10.5	5500	2.6	35	SOT-363	599-1022-1-ND◆	1.02	.95	.91	599-1022-2-ND◆	3,000	710.00/M	SGA-3363Z
	19.0	11.0	5000	2.9	35	SOT-363	599-1024-1-ND◆	1.02	.95	.91	599-1024-2-ND◆	3,000	710.00/M	SGA-3463Z
	21.5	12.5	5000	3.25	35	SOT-363	599-1026-1-ND◆	1.02	.95	.91	599-1026-2-ND◆	3,000	710.00/M	SGA-3563Z
	9.7	12.1	5000	3.2	45	SOT-363	599-1028-1-ND◆	1.02	.95	.91	599-1028-2-ND◆	3,000	710.00/M	SGA-4163Z
	12.7	12.5	3500	3.2	45	SOT-363	599-1030-1-ND◆	1.02	.95	.91	599-1030-2-ND◆	3,000	710.00/M	SGA-4263Z

† 400MHz ‡ 500MHz †† 2200MHz ∆ 3GHz § 1GHz • Bulk ◊ 1.57GHz ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RF Amplifiers and VCOs *(Cont.)*

Fig.	Gain dB (@1.95GHz)	P1dB dBm (Typ.)	Bandwidth (MHz)	VD V (Typ.)	ID mA (Typ.)	Size	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Sirenza Microdevices Part No.
3	14.8	13.0	4000	3.2	45	SOT-363	599-1032-1-ND◆	1.02	.95	.91	599-1032-2-ND◆	3,000	710.00/M	SGA-4363Z
	17.0	12.3	3500	3.2	45	SOT-363	599-1034-1-ND◆	1.02	.95	.91	599-1034-2-ND◆	3,000	710.00/M	SGA-4463Z
	20.2	12.8	2500	3.6	45	SOT-363	599-1036-1-ND◆	1.22	1.16	1.09	599-1036-2-ND◆	3,000	970.00/M	SGA-4563Z
	14.1§	5.6	100 ~ 1300	3	12	SOT-363	599-1058-1-ND◆	.90	.82	.76	599-1058-2-ND◆	3,000	590.00/M	SGL-0163Z
	13.4	5.5	1400 ~ 2500	3	12.5	SOT-363	599-1059-1-ND◆	1.08	.97	.89	599-1059-2-ND◆	3,000	690.00/M	SGL-0263Z
4	16.5	9.0	6000	3	12	SOT-343	599-1055-1-ND◆	.60	.54	.45	599-1055-2-ND◆	3,000	320.00/M	SGA-8343Z
5	15.0††	2.5	2200	28	60	2-SOIC	599-1062-1-ND◆	12.98	12.07	11.23	599-1062-2-ND◆	500	5220.00	SLD-1083CZ
	14.0††	10.0	2200	28	120	2-SOIC	599-1063-1-ND◆	25.66	23.86	22.19	599-1063-2-ND◆	500	10650.00	SLD-2083CZ
6	24.0	29.5	2200	5	400	8-SOIC	599-1065-1-ND◆	9.04	8.32	7.65	599-1065-2-ND◆	500	3519.00	SPA-2318Z
7	29.5	26.5	4900 ~ 5900	3.3	165	16-QFN	599-1066-1-ND◆	1.75	1.62	1.52	599-1066-2-ND◆	3,000	1210.00/M	STA-6033Z
	25.5	29.5	2000 ~ 2700	5	300	16-QFN	599-1070-1-ND◆	3.67	3.12	2.65	599-1070-2-ND◆	3,000	1760.00/M	SZA-2044Z
	25.0	30.0	2700 ~ 3800	5	220	16-QFN	599-1071-1-ND◆	3.66	3.40	3.16	599-1071-2-ND◆	3,000	2540.00/M	SZA-3044Z
	29.5	29.5	4900 ~ 5900	5	220	16-QFN	599-1072-1-ND◆	4.74	4.03	3.43	599-1072-2-ND◆	3,000	2280.00/M	SZA-5044Z
	18.5	24.9	5100 ~ 5900	5	165	16-QFN	599-1073-1-ND◆	4.80	4.08	3.47	599-1073-2-ND◆	3,000	2300.00/M	SZA-6044Z
8	—	—	700 ~ 2500	5	73	16-TSSOP	599-1067-1-ND◆	6.30	5.95	5.60	599-1067-2-ND◆	1,000	4550.00	STQ-2016Z
	—	116 dBµV	50 ~ 870	6	200	16-TSSOP	599-1080-1-ND◆	5.00	4.51	3.76	599-1080-2-ND◆	1,000	2500.00	CGA-0116Z
9	—	6.0	1500	5	25	16-SMD	599-1079-ND•◆	23.84	22.70	—	—	—	—	VCO790-1500TY
	—	5.5	600	5	23	16-SMD	599-1076-ND•	23.84	22.70	—	—	—	—	VCO790-600T
	—	6.0	750	12	25	16-SMD	599-1077-ND•	23.84	22.70	—	—	—	—	VCO793-750T
10	28.5◊	5.5	5 ~ 4000	2.7	9	8-QFN	599-1078-1-ND◆	.84	.77	.71	599-1078-2-ND◆	3,000	555.00/M	SGL-0622Z

† 400MHz ‡ 500MHz †† 2200MHz Δ 3GHz § 1GHz • Bulk ◊ 1.57GHz ◆ ***RoHS Compliant***

skyetek® Developer Kits and Modules

SkyeModule™ M1-Mini

SkyeModule M1-mini provides a low power, high performance, and cost-effective platform designed to enable any device with RFID reader technology. The M1-mini is the world's smallest, self-contained OEM module.

Features: • Multi-protocol, 13.56MHz ±7kHz • Smaller than a US quarter • Effective Range: 5.8cm ~ 8.5cm • Internal (On-board) Antenna • 50Ω port for External Antenna • Host-interface options: TTL Serial, I2C and SPI • Operates from 3.2V ~ 6.0V; and as low as 50µA

Benefits: • World's smallest form factor • Simple and intuitive API for fast integration/time to market • Low power consumption and high performance

Target Applications: • Medical Equipment • Pharmaceuticals • Kiosks • Printers • Handhelds • Ticketing • Industrial Equipment

Description	Digi-Key Part No.	Price Each 1	10	Skyetek Part No.
M1-Mini Module with TTL Interface	753-1009-ND	84.00	76.80	SM-MN-00-HF-RC
M1-Mini Module with I2C Interface	753-1010-ND	84.00	76.80	SM-MN-00-HF-RCI2C
M1-Mini Module with SPI Interface	753-1011-ND	84.00	76.80	SM-MN-00-HF-RCSPI

SkyeModule™ M2

SkyeModule M2, the industry's most secure multi-protocol embedded HF RFID reader module for OEMs, was designed specifically for flexibility and encrypted authentication across a range of vertical markets.

Features: • Multi-protocol, 13.56MHz ±7kHz • Effective Range: 3cm ~ 16cm • Robust security libraries (DES, 3DES, AES, etc.) • Host-interface options: RS-232, I2C, SPI and USB • Seven programmable GPIO pins • Output power adjustable between 17 ~ 23 dBm

Benefits: • Industry leading security and best-in-class cryptographic standards • Miniscule foot print - half the size of a typical business card • Greatest tag compatibility with Tagnostic® and TagIQ™ • Superior embeddability and open, flexible architecture for investment protection

Target Applications: • Anti-counterfeiting • Contactless Payment • Patient Safety • Item-Level Inventory • Printing/Encoding • Handhelds • Patron Management

Description	Digi-Key Part No.	Price Each	Skyetek Part No.
M2 Module with CF Format	753-1012-ND	114.00	SM-M2-CF-HF
M2 Module with MH Format	753-1013-ND	114.00	SM-M2-MH-HF

SkyeModule™ M4

SkyeModule M4 is a feature-rich, easy-to-use HF RFID reader module specially designed to operate with one of the three firmware variations including: • Product Authentication • Access Control • Contactless Payment **Features:** • Frequency: 13.56MHz ±7kHz • ISO 15693, ISO 1443A/B • Effective Range: 4.5cm ~ 14cm • Security libraries (DESFire, MIFARE, AES, SHA-2, KDF and PRNG) • Host-interface options: UART (TTL) • Four programmable GPIO pins **Benefits:** • Industry leading security • Small foot print - about the area of three standard postage stamps • Greatest tag compatibility with Tagnostic® and TagIQ™ • Sophisticated features at a ground-breaking price **Target Applications:** • Anti-counterfeiting • Printing/Encoding • Handhelds

Description	Digi-Key Part No.	Price Each 1	10	Skyetek Part No.
M4 Module with Product Authentication	753-1017-ND	84.00	79.99	SM-M4-00-HF-PA
M4 Module with Access Control	753-1018-ND	84.00	79.99	SM-M4-00-HF-AC
M4 Module with Contact Payment	753-1019-ND	84.00	79.99	SM-M4-00-HF-CP

NEW! SkyeModule™ M7

SkyeModule M7 is the world's smallest, globally compliant UHF module. Its one of-a-kind combination of high performance, security, and cost/space/power efficiency makes it the industry's price performance leader.

Features: • Embedded RFID Module for OEM RFID • Smallest Footprint - smaller than a matchbook • 862MHz ~ 955MHz • Extensive tag compatibility and optimization with Tagnostic® and TagIQ™ • Minimal power consumption for maximum read range • Configurable output power • Simple firmware upgrades • Variety of host interfaces: TTL, USB • Simple and intuitive API

Benefits: • Meets strict regulatory requirements for worldwide operation • Superior embeddability for fast integration and time-to-market • Support for the most tags with the most features • Low power consumption • Cost-effective and highly scalable • Common hardware and software interface with other SkyeModule readers for maximum design and solution flexibility

Target Applications: • Printing/Encoding • Handheld Reading/Encoding • Item-Level Inventory Management • Patron Management • Access Control • Asset Management

Description	Digi-Key Part No.	Price Each	Skyetek Part No.
M7 Module	753-1021-ND	212.00	SM-M7-00-UF

SkyeModule™ M9

SkyeModule M9, a small globally compliant UHF RFID reader module, is a high-performance, secure, power-efficient solution for a broad range of products. Half the size of a typical business card, the module is cost-effective and highly scalable.

Features: • Frequency: 862MHz ~ 955MHz • Effective Range: 1M ~ 3.5M+ • Meets worldwide regulatory requirements • Industry's first standards-based UHF security • Host-interface options: TTL, I2C, SPI and USB • RF output power is software adjustable from 15mW ~ 500mW

Benefits: • Supports more standards and tags than any other comparable reader • Global SKU that provides regulatory pre-scan certification for all major markets • Unprecedented price-performance and TCO

Target Applications: • Anti-counterfeiting • Handheld Reading/Encoding • Printing • Patron Management • Item-Level Inventory • Supply Chain Management

Description	Digi-Key Part No.	Price Each	Skyetek Part No.
M9 Module with CF Format	753-1014-ND	286.00	SM-M9-CF-UF-V30
M9 Module with MH Format	753-1015-ND	286.00	SM-M9-MH-UF-V30

SkyeModule™ Multiplexer Accessories

SkyeTek™ offers the SkyePlus™ MXH and MXU antenna multiplexers to expand the reader's capability by adding up to 8 antennas. The addition of multiplexers can help significantly reduce overall solution cost and are best used in applications that require multiple read-points.

Description	Digi-Key Part No.	Price Each	Skyetek Part No.
HF 4-Port Multiplexer with M2 Module	753-1005-ND	149.00	SP-MX-04-HF-M2
UHF 4-Port Multiplexer with M9 Module	753-1006-ND	149.00	SP-MX-04-UF-M9
HF 8-Port Multiplexer with M2 Module	753-1007-ND	199.00	SP-MX-08-HF-M2
UHF 8-Port Multiplexer with M9 Module	753-1008-ND	199.00	SP-MX-08-UF-M9

SkyeModule™ Developer Kits

The SkyeTek™ developer kit is a complete RFID development tool kit that enables quick demonstrations, proof-of-concepts, and trials when integrating RFID into numerous applications and products. The SkyeTek developer kits includes all the components needed to get started, including: reader modules, sample tags, RFID antennas, connectors, demo software, device drivers, design guides, application notes, and more.

Description	Frequency	Size (mm) L x W x H	Effective Range	Digi-Key Part No.	Price Each	Skyetek Part No.
M1-Mini Development Kit with 1 M1 Module and 3 M1-Mini Modules (all TTL)	HF 13.56MHz	40 x 38 x 4	5.8cm ~ 8.5cm	753-1000-ND	999.00	DK-MN-00-HF-RC
M2 Development Kit with 1 M2 CF Module and 1 M2 MH Module	HF 13.56MHz	59 x 36 x 5	3cm ~ 16cm	753-1001-ND	999.00	DK-M2-00-HF
M4 Development Kit with 1 M4 MH Module	HF 13.56MHz	39 x 36 x 11	4.5cm ~ 14cm	753-1016-ND	899.00	DK-M4-00-HF
M7 Development Kit with 1 M7 Module	UHF 862 ~ 955MHz	53 x 36 x 9	1m ~ 2m	753-1020-ND ***NEW!***	1299.00	DK-M7-00-UF
M9 Development Kit with 1 M9 CF Module	UHF 862 ~ 955MHz	59 x 36 x 7	1m ~ 3.5m	753-1002-ND	1499.00	DK-M9-CF-UF
M9 Development Kit with 1 M9 MH Module	UHF 862 ~ 955MHz	59 x 36 x 7	1m ~ 3.5m	753-1003-ND	1499.00	DK-M9-MH-UF
Item-Level Development Kit with 1 M2 CF Module and 1 M9 CF Module	HF and UHF	—	—	753-1004-ND	1599.00	DK-IL-00-00

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

RFID Evaluation Kit

The DEMOKITCRX14 tools are designed to demonstrate the STMicroelectronics short range product range that includes the SR176, SRIX512 and SRIX4K products. The SR176 / SRIX512 / SRIX4K is contactless memory, powered by a transmitted carrier radio wave at 13.56MHz. It contains a 176-bit (SR176), 512-bit (SRIX512) or 4096-bit (SRIX4K) EEPROM, with memory mapping organized as blocks of 16 or 32 bits. It conforms to the ISO 14443-B recommendation for the transfer of power and signals via radio transmission. The DEMOKITCRX14 reader circuitry amplitude modulates (10% modulation) the data on the carrier using amplitude shift keying (ASK). The SR176 / SRIX512 / SRIX4K replies by load modulating the data on the carrier using the BPSK (Bit Phase Shift Keying) coding using the 847kHz sub-carrier. The data transfer rate in each direction is 106 Kbit/second. The purpose of the DEMOKITCRX14 program is to give an example of how the interfacing can be achieved. It does not allow the user to evaluate all of the different ISO 14443 modes. The DEMOKITCRX14 gives access to the full memory mapping. It is possible to read and write into the selected SR176 / SRIX512 / SRIX4K. This release of demonstration software, differentiated for each SR176 / SRIX512 / SRIX4K, allows all of the product features to be exercised.

Kit Includes: • One CD-ROM • One CRX14 board with I^2C connector • One USB Transceiver with USB cable • Some SR176 and SRIX4K Samples • Documentation

497-3704-ND	RFID Evaluation Kit	**$608.40**

CR14 and CRX14 Coupler Chips

The CR14 and CR14X series are contactless couplers that are compliant with the short range ISO14443 type-B standard. They are controlled using the two wire I^2C bus. They generate a 13.56MHz signal on an external antenna. Transmitted data is modulated using Amplitude Shift Keying (ASK). Received data is demodulated from the PICC (Proximity Integrated Coupling Card) load variation signal, induced on the antenna, using Bit Phase Shift Keying (BPSK) of a 847kHz sub-carrier. The Transmitted ASK wave is 10% modulated. The data transfer rate between the CR14/CRX14 and PICC is 106Kbit/second in both transmission and reception modes.

Type	Package	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
Non-anti-clone	16-SOIC	497-5719-5-ND	6.13	5.34	3.98	CR14-MQP/1GE
Anti-clone	16-SOIC	497-5720-5-ND	8.14	7.44	5.88	CRX14-MQP/1GE

Bluetooth® Modules

GS-BT2416xx is the new series of Bluetooth core embedded modules intended for audio Hi-Fi and Industrial applications based on the STLC2416 baseband controller with 4Mbit flash and the STLC2150 radio transceiver. The series supports protocol layers up to HCI and it represents a cost effective packaged solution for customers in need of a simple wireless link. The Bluetooth approach is facilitated by the Serial Port Profile (SPP) firmware embedded in GS-BT2416CX.AT1. This ready-to-go solution is simply managed by AT commands. The modules are also available in Class 1 and Class 2 for either long range or low power operation with data transfer up to 720Kbps Bluetooth v1.2 compliant.

Features: • Class 1 (long) and Class 2 ranges • Bluetooth v1.2 compliant • Embedded SPP profile for cable replacement • AT commands set • HCI interface over UART and USB • Single 3.3V voltage supply with embedded voltage regulator

Class	Profile	Digi-Key Part No.	Price Each 1	25	50	STMicroelectronics Part No.
1	HCI	497-5788-ND	43.75	37.50	36.25	GS-BT2416C1
	SPP	497-5789-ND	33.25	28.50	26.60	GS-BT2416C1.AT1
2	HCI	497-5790-ND	43.75	37.50	36.25	GS-BT2416C2
	SPP	497-5791-ND	32.38	27.75	25.90	GS-BT2416C2.AT1
Board Demo for Class 1 Modules		497-5792-ND	61.25	52.50	50.75	GS-BT2416C1DB
Board Demo for Class 1 with Serial Port		497-5793-ND	61.25	52.50	50.75	GS-BT2416C1DBAT1
Board Demo for Class 2 with Serial Port		497-6224-ND	45.50	—	—	GS-BT2416C2DBAT1

ZigBee™

STMicroelectronics has joined forces with Ember Corporation to produce mutually-compatible, complete ZigBee-compliant solutions-comprised of semiconductors, software and tools.

ST has invested in ZigBee as the leading wireless control and sensoring network solution. ZigBee stands apart from other RF solutions as it is the only wireless standards-based technology that: • Addresses the unique needs of remote monitoring and control, and sensory network applications • Enables broad-based deployment of wireless mesh networks with low-cost, low-power solutions • Provides the ability to run for years on inexpensive primary batteries for a typical monitoring application

ST's ZigBee solutions offer two main advantages: • All of our solutions are 100% compatible with Ember's products, offering clients the flexibility of 2 supplier sources • All products are pre-loaded with the Ember ZNet stack, the networking software developed by our strategic partner Ember

Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	STMicroelectronics Part No.
Single-Chip ZigBee 802.15.4 Solution	497-5874-1-ND	13.00	12.03	9.10	497-5874-2-ND	2,000	8060.00/M	SN250QT

Radio Carrier Boards

497-5876-ND	Radio Carrier Board for SN250	**$111.72**
497-5877-ND	Radio Carrier Board for SN260	**$111.72**

Networking Development Boards

Features: • 3 hardware nodes • DEV License of InSIght Desktop: (up to 3 nodes and up to 10K radio events) • ST MCU development tools

497-5878-ND	**(SNDEV-250)**	Network Development for SN250	**$2660.00**
497-5879-ND	**(SNDEV-260)**	Network Development for SN260	**$2660.00**

Wireless Networking Devices and Boards

Synapse modules are based on **SNAP** and **SNAP PRO** networking protocols that provide a solution for any application. Networks based on SNAP (Synapse Network Appliance Protocol) PRO are self-healing, rapid-forming, instant on networks, allowing rapid applications development without the need for embedded programming. SNAP provides an out of the box network for rapid development of point to point applications. Included in each kit is a copy of Portal (EK1500) or Portal PRO (EK2500), which provide all the software required to configure, edit, or view the network of devices. The Synapse RF Engine modules are FCC Certified for all 16 IEEE802.15.4 channels, the SNAP PRO versions are programmable over the air, and both SNAP and SNAP PRO versions provide ultra-low power modes for battery networks. All SNAP versions are able to be updated to SNAP PRO with a copy of Portal PRO.

Features: • Power Output: 18dBm • Receive Sensitivity: -102dBm • RF Data Rate: 250Kbps • Supply Voltage: 2.7V ~ 3.4V • Power Down Current: 75µA (Pro: 2.5µA) • Receive/Transmit Current: 50/110mA (40mA TX for non amped)

SNAP Network Evaluation Kit Includes: • CO163F0-D6 • ED111F5-85 • ED111F5-D5 • ED111F5-C5 • 6' USB Cable • 6' Serial Cable • Four 9V 350ma DC Power Supply • Two quarter-wave 5" dipole antenna with reverse polarity SMA connector • Serial Loopback Adapter • One Female/Female and one Male/Male Null Modem Adapter • Male/Male Gender Changer • Portal Lite on CD • Documentation

SNAP PRO Network Evaluation Kit Includes: • SN163F0-NR • SN111F5-NR • SN171GG-NR • RF100PD6 • RF100PC6 • RF100P86 • 6' USB Cable • 6' Serial Cable • One half-wave 5" dipole antenna with reverse polarity SMA • Two 9V 350ma DC Power Supply • Battery Holder with on/off switch • Two AA Alkaline Batteries • Documentation • Four Node Portal Pro CD

Description	Antenna	Flash Memory (KB)	Module Mode	Digi-Key Part No.	Price Each	Synapse Part No.
SNAP RF Engines — RoHS Compliant						
RF Engine, Amplified, Extended Range, 10 Bit	External	60	Coordinator	746-1006-ND	46.95	RF100CD6
RF Engine, Amplified, Extended Range, 10 Bit	F Type	60	Coordinator	746-1007-ND	42.49	RF100CC6
RF Engine, Amplified, Extended Range, 10 Bit	External	32	End Device	746-1008-ND	43.95	RF100ED5
RF Engine, Amplified, Extended Range, 10 Bit	F Type	32	End Device	746-1010-ND	38.95	RF100EC5
RF Engine, Not Amplified, Standard Range, 10 Bit	F Type	32	End Device	746-1009-ND	27.49	RF100E85
SNAP PRO RF Engines — RoHS Compliant						
RF Engine, With Power Amp, Maximum Range, 10 Bit	External	60	—	746-1015-ND ***NEW!***	51.60	RF100PD6
RF Engine, With Power Amp, Maximum Range, 10 Bit	F Type	60	—	746-1016-ND ***NEW!***	46.75	RF100PC6
RF Engine, Without Power Amp, Extended Range, 10 Bit	F Type	60	—	746-1017-ND ***NEW!***	30.25	RF100P86
Evaluation Boards						
Coordinator Device for SNAP Network	External	60	—	746-1002-ND	218.00	CO163F0-D6
End Device for SNAP Network, without Power Amp	F Type	32	—	746-1003-ND	172.00	ED111F5-85
End Device for SNAP Networks, with Power Amp	External	32	—	746-1004-ND	206.00	ED111F5-D5
End Device for SNAP Networks, with Power Amp	F Type	32	—	746-1005-ND	183.00	ED111F5-C5
Bridge Node for SNAP PRO Networks, No Radio	—	—	—	746-1012-ND◆ ***NEW!***	142.69	SN163F0-NR
End Device Node for SNAP PRO Networks, No Radio	—	—	—	746-1013-ND◆ ***NEW!***	144.00	SN111F5-NR
Protoboard Node for SNAP PRO Networks, No Radio	—	—	—	746-1014-ND◆ ***NEW!***	85.00	SN171GG-NR
SNAP Network Evaluation Kit				746-1000-ND	495.00	EK1500
SNAP PRO Evaluation Kit				746-1011-ND◆ ***NEW!***	995.00	EK2500

◆ ***RoHS Compliant***

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TAIYO YUDEN

Antennas

These SMD chip antennas provide a high performance solution in a compact, low profile design.

Different sizes are available based on design needs, but each device has a wide bandwidth and high gain for an increased link budget for your application.

Fig. 1

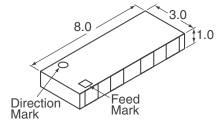

Fig. 2

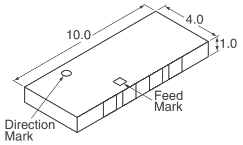

Fig. 3

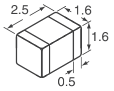

Fig.	Frequency	Bandwidth (MHz)	Gain (dBi)	Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Taiyo Yuden Part No.
1	2.4GHz	145	2	Multilayer	587-1725-1-ND	2.36	2.21	1.58	587-1725-2-ND	1,000	914.00	AH083F245001-T
2		300	2	Multilayer	587-1726-1-ND	2.51	2.35	1.68	587-1726-2-ND	2,000	972.00/M	AH104F2450S1-T
3		300	1	Helical	587-1727-1-ND	1.31	1.23	.88	587-1727-2-ND	2,000	508.00/M	AF216M245001-T

Filters

The High Frequency Multilayer Chip Filters from Taiyo Yuden are compact, and have a very low profile, but provide for very low loss and high attenuation. The FI212C245031-T balanced port is conjugated to the BlueCore3-ROM and BlueCore4-ROM devices from CSR.

Fig. 1

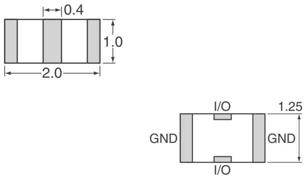

Fig. 2

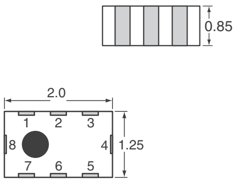

1. NC
2. DC Feed Port
3. Unbalance Port
4. GND
5. Balance Port
6. GND
7. Balance Port
8. GND

Fig. 3

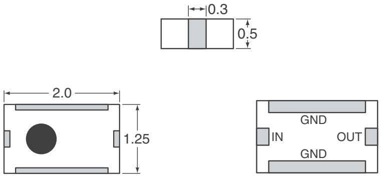

Fig.	Passband Frequency (MHz)	VSWR at Passband Max.	Impedance (Ω)	Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Taiyo Yuden Part No.
1	2400 ~ 2500	2.0	50	Band Pass	587-1728-1-ND	.71	.67	.48	587-1728-2-ND	3,000	276.00/M	FI212B245021-T
2	2400 ~ 2500	2.0	50 (Unbalanced)	Balanced Band Pass	587-1729-1-ND	.71	.67	.48	587-1729-2-ND	3,000	276.00/M	FI212C245031-T
3	470 ~ 770	2.0	50	Low Pass for Digital TV	587-1730-1-ND	.90	.84	.60	587-1730-2-ND	3,000	348.00/M	FI212L062002-T

TDK

UWB Chip Antenna

Specifications:
- Operating Temperature: -30°C ~ 85°C • Storage Temperature: -40°C ~ 85°C • Polarization: Linear (Mixed)

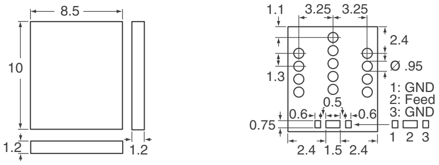

Operation Frequency (GHz)	Antenna Gain (dBi)	Imped-ance (Ω)	VSWR (Max.)	Digi-Key Part No.	Price Each 1	10	100	TDK Part No.
3.1 ~ 5.2	2	50	3	445-3385-1-ND†	7.72	5.72	4.58	ANT1085-4R1-01A
				445-3385-2-ND‡	6006.00/1,500			ANT1085-4R1-01A

† Cut Tape ‡ Tape and Reel

Hybrid Log Periodic Antenna

This antenna is an extended frequency broadband antenna intended for measurements in an anechoic chamber, open area test site, or *in situ*. It's 30MHz ~ 3GHz range makes it especially suited for wideband testing of radiated emissions from electrical and electronic equipment. This new design offers unequaled performance over this range for an antenna of this form factor. The HLP-3003C uses a unique low frequency hybrid element to extend the low frequency performance while maintaining a compact size. The low frequency elements of the antenna are removable for convenient storage.

Features: • Efficient design especially suited for compact chambers • Shortest antenna length available for the operating frequency range • Moderate power handling capability • Individually calibrated according to ANSI C63.5 with signed certificate of calibration

Specifications: • Frequency Range: 30MHz ~ 3GHz • Gain: 6dBi typical • VSWR: 2:1 average • Polarization: Linear • Power Handling: 100W • Input Impedance: 50 Ohms nominal • Construction: Aluminum with gold chromate finish • RF Connector: Type N female

445-3408-ND (TDK Part Number HLP-3003C) **$5556.25**

Horn Antenna

This antenna is a wide band, double-ridged horn used to transmit and receive microwave signals over the frequency range of 1GHz ~ 18GHz. The HRN-0118 generates high electric fields required for radiated immunity and emissions measurements and features high gain, low VSWR, moderate power handling, and a robust mechanical design.

Specifications:
- VSWR <1.5:1 average • Polarization: Linear • Power Handling: 300W • Feedpoint Impedance: 50 Ohms nominal • RF Connector: Type N female

445-3409-ND (TDK Part Number HRN-0118) **$4923.75**

Color Video Camera

This camera is a high performance CCD specifically designed for remote monitoring of equipment under EMC testing. The camera is also ideal for wide angle anechoic chamber monitoring, shielded access control, and test action archiving. The VC-04 is designed to operate in the harsh environments required for EMC testing. The camera is housed in an EMI hardened protective case and the control and video signals use fiber optics to prevent interference caused by high electromagnetic fields present during EMC testing. The high-resolution VC-04 is remotely focused, positioned, and zoomed using the TDK SI-300CC (see below) controller.

Features:
- 1/4" CCD
- High resolution
- EMI shielded to >200V/m (DC to 18GHz); Shielded 12VDC or universal AC adapter operated
- Pan/tilt mechanism
- Remote control for pan/tilt, focus, zoom, iris control
- Computer control with IEEE-488 option
- Audio option provides both audio and visual monitoring

445-3410-ND	**(TDK Part Number VC-04)**	Color Video Camera	**$8333.75**
445-3411-ND	**(TDK Part Number SI-300CC)**	Controller for VC-04 Camera	**$3472.50**
445-3412-ND	**(TDK Part Number VCMS-150R)**	Monopod Stand for VC-04 Camera	**$833.75**
445-3413-ND	**(TDK Part Number VC CABLE SET)**	Cables for VC-04 Camera	**$486.25**
445-3414-ND	**(TDK Part Number VC-BPS)**	Battery Pack for VC-04 Camera............	**$833.75**

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TEXAS INSTRUMENTS RF Products

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Texas Instruments Part No.
			1	25	100		Qty.	Pricing	
2.5GHz, High Dynamic Range, Low-Noise Down-Converter	20-QFN	296-19795-1-ND◆	9.75	8.78	7.79	296-19795-2-ND◆	250	1864.75	TRF1115IRGPT
2.5GHz, Integrated Up-Converter	32-QFN	296-19796-1-ND◆	9.16	8.25	7.32	296-19796-2-ND◆	2,500	6683.00/M	TRF1122IRTMR
2.5GHz, Integrated Up-Converter	32-QFN	296-23069-1-ND ***NEW!***	10.08	9.08	8.05	296-23069-2-ND ***NEW!***	250	1928.50	TRF1122IRTMT
2.5GHz, 1W Power Amplifier	32-QFN	296-23070-1-ND ***NEW!***	8.75	7.88	6.99	296-23070-2-ND ***NEW!***	250	1673.50	TRF1123IRTMT
Dual VCO/PLL Synthesizer with IF Down-Converter	48-QFN	296-19314-1-ND◆	21.23	19.81	18.40	296-19314-2-ND◆	250	4510.25	TRF1212IRGZT
3.5GHz High Dynamic Range, Low-Noise Down-Converter	20-QFN	296-19289-1-ND◆	9.75	8.78	7.79	296-19289-2-ND◆	250	1864.75	TRF1216IRGPT
Dual VCO/PLL Synthesizer with IF Up-Converter	48-QFN	296-19290-1-ND◆	21.23	19.81	18.40	296-19290-2-ND◆	250	4510.25	TRF1221RGZT
3.5GHz Integrated Up-Converter	32-QFN	296-19291-1-ND◆	10.08	9.08	8.05	296-19291-2-ND◆	250	1928.50	TRF1222IRTMT
3.5GHz, 1W Power Amplifier	32-QFN	296-23071-1-ND ***NEW!***	9.16	8.25	7.32	296-23071-2-ND ***NEW!***	250	1753.25	TRF1223IRTMT
2GHz Low Voltage Synthesizer	20-TSSOP	296-1969-5-ND‡	4.84	3.87	3.01	—	—	—	TRF2052PW
Dual-Band IQ/IF Transceiver with Dual VCO Synthesizers	56-QFN	296-19797-1-ND◆	9.16	8.25	7.32	296-19797-2-ND◆	250	1753.25	TRF2432IRTQT
High-Power Dual-Band RF Front-End	40-QFN	296-21353-1-ND◆	14.66	13.20	11.71	296-21353-2-ND◆	250	2805.00	TRF2436IRTBT
0.4GHz ~ 1.5GHz Quadrature Modulator	16-QFN	296-17198-ND‡◆	8.46	7.62	6.76	—	—	—	TRF3701IRHC
1.5GHz ~ 2.5GHz Quadrature Modulator	16-QFN	296-17350-ND‡◆	8.46	7.62	6.76	—	—	—	TRF3702IRHC
0.4GHz ~ 4.4GHz Quadrature Modulator	24-VQFN	296-23336-1-ND ***NEW!***	13.58	12.23	10.84	296-23336-2-ND ***NEW!***	250	2597.75	TRF370317IRGET
PLL Frequency Synthesizer	16-TSSOP	296-16941-5-ND‡◆	5.40	4.32	3.65	—	—	—	TRF3750IPW
High-Performance Integer-N PLL Frequency Synthesizer	20-QFN	296-17552-5-ND‡◆	6.00	4.80	4.05	—	—	—	TRF3750IRGP
420MHz ~ 450MHz Single-Chip RF Transmitter	24-TSSOP	296-11056-5-ND‡◆	4.03	3.23	2.51	—	—	—	TRF4400PW
850MHz~950MHz Single-Chip RF Transmitter	24-TSSOP	296-11057-5-ND‡◆	3.06	2.45	1.91	—	—	—	TRF4900PW
Single-Chip Multiband RF Transmitter	24-TSSOP	296-17876-5-ND‡◆	3.06	2.45	1.91	—	—	—	TRF4903PW
902MHz ~ 928MHz Single-Chip RF Transceiver	48-LQFP	296-14059-1-ND◆	6.38	5.11	4.31	296-14059-2-ND◆	1,000	3988.00	TRF5901PTR
850MHz ~ 950MHz Single-Chip RF Transceiver	48-LQFP	296-11058-ND‡◆	5.44	4.36	3.68	—	—	—	TRF6900APT
860MHz ~ 930MHz Single-Chip RF Transceiver	48-PQFP	296-12242-ND‡	5.44	4.36	3.68	—	—	—	TRF6901PT
Single Chip Multiband RF Transceiver	48-PQFP	296-17391-ND‡◆	4.12	3.30	2.57	—	—	—	TRF6903PT
Fully Integrated Analog Front-End Dual Receiver Base	28-TSSOP	296-19301-5-ND‡◆	3.38	2.70	2.10	—	—	—	TRF7900APW
Fully Integrated Analog Front-End Dual Receiver Base	28-TSSOP	296-19302-5-ND‡◆	3.38	2.70	2.10	—	—	—	TRF7900PW
RFID Front End 13.56MHz	32-QFN	481-1111-1-ND◆	16.90	14.79	12.15	481-1111-2-ND◆	250	1980.00	TRF7960RHBT
RFID Front End 13.56MHz	32-QFN	481-1112-1-ND◆	13.93	11.94	9.95	481-1112-2-ND◆	3,000	5074.50/M	TRF7961RHBR
0.4GHz ~ 4GHz Quadrature Modulator	24-QFN	296-20731-1-ND◆	12.83	11.55	10.25	296-20731-2-ND◆	250	2454.50	TRF370315IRGET
0.4GHz ~ 4GHz Quadrature Modulator	24-QFN	296-21288-1-ND◆	12.83	11.55	10.25	296-21288-2-ND◆	250	2454.50	TRF370333IRGET
Programmable, Wideband Crest Factor Reduction Processor	256-BGA	296-20702-ND‡◆	52.50	49.00	45.50	—	—	—	GC1115IZDJ
High-Density Digital Upconverter	388-BGA	296-20745-ND‡◆	123.75	115.50	107.25	—	—	—	GC5318IZED

‡ Bulk ◆ ***RoHS Compliant***

Chipcon Products from Texas Instruments RF Transceivers/Transmitters

CC1111EMK868-915 Kit: This evaluation module/USB dongle is designed to help the user to achieve objectives as quickly as possible. A CC1110DK is needed to program the CC1111 USB dongle (the CC1110DK must be ordered separately). The CC1111 868 and 915 MHz USB dongle can be used to test the communications between the CC1101/CC1150/CC1110 prototypes/development kits, and a PC, without having to wire up the CC1101/CC1150/CC1110 development kit to the PC.

Kit Includes: • One CC1111 USB dongle with chip antenna for 868 and 915 MHz operation

CC2420EMK Kit: CC2420 is a true single chip 2.4 GHz 802.15.4 compliant RF transceiver designed for low-power and low-voltage wireless applications. The CC2420EMK evaluation kit in combination with a CC2420 development kit is a powerful and flexible tool specifically designed to make it easy for the user to evaluate the RF performance of the CC2420 and to minimize the time spent on evaluation.

Kit Includes: • Two CC2420 evaluation modules and two antennas. The CC2420EM are add-on daughter boards that require a CC2420DK or CC2420DBK development kit for evaluation and development.

CC2430DK Kit: The SmartRF®04DK development kit includes a number of functions and applications that allows quick testing of the RF interface and peripherals of the chip. Right out of the box, the kit can be used for range testing using the SmartRF®04DK products. The user SmartRF® Studio performs RF measurements. The radio can be easily configured to measure sensitivity, output power and other RF parameters. For prototype development the SmartRF®04DK includes a USB interface that can be used as emulator interface for the CC2430/CC2510. All I/O ports are available on pin connectors on the edge of the board to allow easy access for external applications. These connectors are also compatible with logic analyzer probes for easy debugging.

Kit Includes: • Two SmartRF®04EB • Two CC2430EM evaluation modules • Two 2.4 GHz antennas • Two USB cables • One 10-wire flat cable for using SmartRF®04EB as emulator for external target systems • Quick start guide • IAR EW8051 C-compiler with C-SPY debugger (30+30 days evaluation license)

CC2500EMK Kit: These evaluation modules in combination with a motherboard from a CC2500 development kit are designed to help the user to achieve objectives as quickly as possible. Right out of the box the user can do range testing (PER testing) and transfer data from one PC to another using the SmartRF®04DK. This enables the user to quickly find out how well the SmartRF®04 products fit the intended application. A number of demonstration applications serve to highlight the innovative features of the SmartRF®04 ICs.

Kit includes: • Two CC2500EM evaluation modules and two antennas

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Texas Instruments Part No.
			1	25	100		Qty.	Pricing	
Single Chip Very Low Power RF Transceiver	28-TSSOP	296-19457-5-ND‡◆	7.60	6.08	5.13	—	—	—	CC1000PW
Single Chip Very Low Power RF Transceiver	28-TSSOP	296-19576-1-ND◆	7.60	6.08	5.13	296-19576-2-ND◆	2,500	4712.00/M	CC1000PWR
Single Chip Very Low Power RF Transceiver	28-XCEPT	296-19458-ND‡◆	8.80	7.04	5.94	—	—	—	CC1000YZ
Single Chip Very Low Power RF Transceiver with 8051-Compatible Microcontroller	64-TQFP	296-19459-ND‡◆	10.66	9.60	8.52	—	—	—	CC1010PAG
Single Chip Very Low Power RF Transceiver with 8051-Compatible Microcontroller	64-TQFP	296-19578-1-ND	10.66	9.60	8.52	296-19578-2-ND	1,500	7904.00/M	CC1010PAGR
Single Chip Low Power RF Transceiver for Narrowband Systems	32-QFN	296-19460-ND‡◆	8.90	7.12	6.01	—	—	—	CC1020RHH
Single Chip Low Power RF Transceiver for Narrowband Systems	32-QFN	296-19579-1-ND◆	6.90	5.52	4.66	296-19579-2-ND◆	4,000	4278.00/M	CC1020RSSR
Single Chip Low Power RF Transceiver for Narrowband Systems	32-QFN	296-19461-ND‡◆	7.60	6.08	5.13	—	—	—	CC1021RHH
Single Chip Low Power RF Transceiver for Narrowband Systems	32-QFN	296-19580-1-ND◆	6.40	5.12	4.32	296-19580-2-ND◆	4,000	3968.00/M	CC1021RSSR
Single Chip Very Low Power RF Transmitter	24-TSSOP	296-19462-5-ND‡◆	3.71	2.97	2.31	—	—	—	CC1050PW
Single Chip Very Low Power RF Transmitter	24-TSSOP	296-19581-1-ND	3.71	2.97	2.31	296-19581-2-ND◆	2,500	2079.00/M	CC1050PWR
Single Chip Low Power RF Transmitter for Narrowband Systems	20-QFN	296-19463-ND◆‡	4.39	3.51	2.73	—	—	—	CC1070RGP
Single Chip Low Power RF Transmitter for Narrowband Systems	20-QFN	296-19582-1-ND	4.39	3.51	2.73	296-19582-2-ND	5,000	2438.00/M	CC1070RSQR
Single Chip Low Cost Low Power RF Transceiver	20-QFN	296-19583-1-ND	4.61	3.69	2.87	296-19583-2-ND	2,500	2583.00/M	CC1100RTKR
Single Chip Low Cost Low Power RF Transceiver	20-QFN	296-21981-1-ND◆	4.16	3.33	2.59	296-21981-2-ND	2,500	2331.00/M	CC1101RTKR
Single Chip Low Cost Low Power RF Transmitter	16-QFN	296-19465-ND‡◆	2.48	1.98	1.54	—	—	—	CC1150RGP
Single Chip Low Cost Low Power RF Transmitter	16-QFN	296-19584-1-ND◆	2.48	1.98	1.54	296-19584-2-ND◆	2,500	1386.00/M	CC1150RSTR
Single Chip 2.4GHz Low Cost Low Power RF Transceiver	48-QFN	296-21512-1-ND◆	5.40	4.32	3.65	296-21512-2-ND◆	4,000	3348.00/M	CC2400RSUR
2.4GHz IEEE 802.15.4/ZigBee™ Ready RF Transceiver	48-QFN	296-19585-1-ND◆	6.60	5.28	4.46	296-19585-2-ND◆	4,000	4092.00/M	CC2420RTCR
2.4GHz IEEE 802.15.4/ZigBee Ready RF Transceiver	48-QFN	296-19585-5-ND‡◆	6.60	5.28	4.46	—	—	—	CC2420RTC
2.4GHz IEEE 802.15.4/ZigBee Ready RF Transceiver	48-QFN	296-19566-ND‡◆	6.60	5.28	4.46	—	—	—	CC2420ZRTC
2.4GHz IEEE 802.15.4/ZigBee RF Transceiver	28-QFN	296-22996-1-ND ***NEW!***	5.50	4.40	3.72	296-22996-2-ND ***NEW!***	250	893.75	CC2520RHDT
2.4GHz ZigBee Processor	48-QLP	296-23313-1-ND ***NEW!***	13.49	12.15	10.78	296-23313-2-ND ***NEW!***	2,500	9842.00/M	CCZACC06A1RTCR
Single Chip Low Cost Low Power RF Transceiver	20-QFN	296-19586-1-ND◆	3.83	3.06	2.38	296-19586-2-ND◆	2,500	2142.00/M	CC2500RTKR
Single Chip Low Cost Low Power RF Transceiver	16-QFN	296-19469-ND‡◆	2.48	1.98	1.54	—	—	—	CC2550RGP
Single Chip Low Cost Low Power RF Transceiver	16-QFN	296-19587-1-ND	2.23	1.79	1.39	296-19587-2-ND	2,500	1267.00/M	CC2550RSTR
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee	48-QFN	296-23008-ND ***NEW!***	7.20	5.76	4.86	—	—	—	CC2430F32RTC
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee	48-QFN	296-23009-ND ***NEW!***	9.40	7.52	6.35	—	—	—	CC2430F64RTC
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee	48-QFN	296-21950-1-ND	9.08	8.18	7.25	296-21950-2-ND	2,500	6622.00/M	CC2430ZF128RTCR
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee w/Location Engine	48-QFN	296-21940-1-ND	10.75	9.68	8.58	296-21940-2-ND	2,500	7837.00/M	CC2431ZRTCR
System-On-Chip for 2.4GHz IEEE 802.15.4/ZigBee w/Location Engine	48-QFN	296-21980-1-ND	10.75	9.68	8.58	296-21980-2-ND	2,500	7837.00/M	CC2431RTCR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QLP	296-21720-1-ND	8.66	7.80	6.92	296-21720-2-ND	2,500	6318.00/M	PCC2510F32RSPR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QLP	296-22716-1-ND	2.25	1.80	1.40	296-22716-2-ND	2,500	1260.00/M	PCC2511F32RSPR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QLP	296-22740-1-ND	8.33	7.50	6.65	296-22740-2-ND	2,500	6075.00/M	CC1110F32RSPR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QLP	296-22684-1-ND	8.91	8.03	7.12	296-22684-2-ND	2,500	6500.00/M	CC1111F32RSPR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QFN	296-22556-1-ND ***NEW!***	7.90	6.32	5.34	296-22556-2-ND ***NEW!***	2,500	4898.00/M	CC2510F32RSPR
System-On-Chip Low Cost Low Power RF Transceiver with 8051 MCU	36-QFN	296-22557-1-ND ***NEW!***	8.40	6.72	5.67	296-22557-2-ND ***NEW!***	2,500	5103.00/M	CC2511F32RSPR
Evaluation Module Kit for CC1111		296-22732-ND†	50.00	—	—	—	—	—	CC1111EMK868-915
Evaluation Module Kit for CC2420		296-22905-ND†	122.40	—	—	—	—	—	CC2420EMK
Development Kit for CC2430		296-22912-ND†	550.80	—	—	—	—	—	CC2430DK
Development Kit ZigBee for CC2430		296-23010-ND† ***NEW!***	1920.45	—	—	—	—	—	CC2430ZDK
Development Kit for CC2431		296-23004-ND† ***NEW!***	1018.99	—	—	—	—	—	CC2431DK
Evaluation Module Kit for CC2500		296-22903-ND†◆	102.00	—	—	—	—	—	CC2500EMK
Development Kit for CC2500/CC2550DK		296-23077-ND† ***NEW!***	499.80	—	—	—	—	—	CC2500-CC2550DK
Evaluation Module Kit for CC2511		296-23155-ND† ***NEW!***	50.00	—	—	—	—	—	CC2511EMK

‡ Bulk † Box ◆ ***RoHS Compliant***

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TEXAS INSTRUMENTS
RFID

Low Frequency Transponders 134.2kHz

Dimensions in mm

Fig. 1

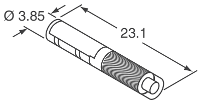

Case Material: Glass

Fig. 2

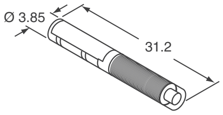

Case Material: Glass

Fig. 3

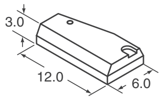

Case Material: Plastic Compound, Black

Fig. 4

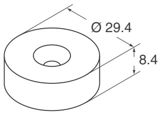

Case Material: Poly-Oxy-Methylene, Black

Fig. 5

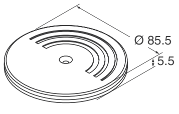

Case Material: Acrylate-Styrene-Arcylonitrile, Black

Fig. 6

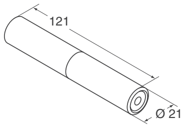

Case Material: Poly-Ether-Imide Black

Fig. 7

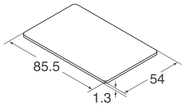

Case Material: PVC (Polyvinylchloride), White

Fig. 8

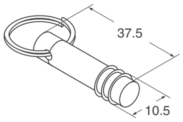

Case Material: Polypropylene, Black

Fig.	Functionality	Memory (Bits)	Memory (Pages)	Typical Reading Range (cm)	Operating Temperature (Read) (°C)	Operating Temperature (Program) (°C)	Digi-Key Part No.	Price Each 1	25	100	Tape and ReelΔ Qty.	Pricing	Texas Instruments Part No.
1	Read Only	64	1	≤ 60	-40 ~ 85	—	481-1007-ND	8.78	7.80	6.18	—	—	RI-TRP-RRHP-20
	Read Only	64	1	≤ 20‡	-25 ~ 70	—	481-1113-ND	6.42	5.35	4.50	—	—	RI-TRP-R9BK-20
	Read Only	64	1	≤ 60‡	-40 ~ 85	—	481-1109-1-ND	7.53	5.99	5.22	2,000	2470.40/M	RI-TRP-RR3P-30
	Read/Write	80†	1	≤ 60‡	-40 ~ 85	-40 ~ 70	481-1110-1-ND	9.20	7.32	6.38	2,000	3020.80/M	RI-TRP-WR3P-30
	Read Only	64	1	≤ 60‡	-25 ~ 70	—	481-1134-ND◆ ***NEW!***	5.04	4.20	3.53	—	—	RI-TRP-REHP-30
	Read/Write	80†	1	≤ 60‡	-25 ~ 70	-25 ~ 70	481-1141-ND◆ ***NEW!***	5.40	4.50	3.78	—	—	RI-TRP-WEHP-30
2	Read/Write	80†	1	≤ 100‡	-25 ~ 85	-25 ~ 70	481-1003-ND◆	7.32	6.10	5.13	—	—	RI-TRP-WR2B-20
	Read Only	64	1	≤ 100‡	-25 ~ 85	—	481-1103-ND◆	6.00	5.00	4.20	—	—	RI-TRP-RR2B-30
	MPT	360†	17 R/W	≤ 100‡	-25 ~ 85	-25 ~ 85	481-1004-ND	9.72	8.64	6.84	—	—	RI-TRP-DR2B
	Read/Write	80†	1	≤ 100‡	-25 ~ 70	-25 ~ 70	481-1140-ND◆ ***NEW!***	5.55	4.63	3.89	—	—	RI-TRP-WE2B-30
	Read Only	64	1	≤ 100‡	-25 ~ 70	—	481-1143-1-ND◆ ***NEW!***	6.75	5.37	4.68	2,000	2214.40/M	RI-TRP-RE2B-30
3	Read/Write	80	1	≤ 20‡	-40 ~ 85	-40 ~ 70	481-1108-ND	6.90	5.75	4.83	—	—	RI-TRP-W9WK-20
	Read Only	64	1	≤ 20	-40 ~ 85	—	481-1009-ND	8.78	7.80	6.18	—	—	RI-TRP-R9WK-20
4	Read Only	64	1	≤ 60	-25 ~ 85	—	481-1131-ND◆	6.97	4.78	4.23	—	—	RI-TRP-R9QL-30
	Read/Write	80†	1	≤ 60	-25 ~ 70	-25 ~ 70	481-1012-ND	8.32	7.40	5.86	—	—	RI-TRP-W9QL-00
5	Read Only	64	1	≤ 150‡	-25 ~ 85	—	481-1013-ND	12.29	10.92	8.65	—	—	RI-TRP-R9UR
	Read/Write	80†	1	≤ 150‡	-25 ~ 70	—	481-1138-ND◆ ***NEW!***	11.58	10.30	8.16	—	—	RI-TRP-W9UR-30
6	Read Only	64	1	≤ 200‡	-25 ~ 85	—	481-1132-ND◆ ***NEW!***	28.13	23.75	20.00	—	—	RI-TRP-R9TD-30
	Read/Write	80†	1	≤ 200‡	-25 ~ 85	—	481-1137-ND◆ ***NEW!***	29.54	24.95	21.01	—	—	RI-TRP-W9TD-30
7	Read/Write	80†	1	≤ 100‡	-25 ~ 50*	-25 ~ 50*	481-1104-ND◆	7.83	6.96	5.51	—	—	RI-TRP-W4FF-30
	Read Only	64	1	≤ 100‡	-25 ~ 50*	—	481-1129-ND◆ ***NEW!***	7.32	6.51	5.15	—	—	RI-TRP-R4FF-30
8	Read/Write	80†	1	≤ 60	-40 ~ 85	-40 ~ 70	481-1023-ND	9.40	8.36	6.62	—	—	RI-TRP-WFOB-01
	Read Only	64	1	≤ 60‡	-40 ~ 85	—	481-1135-ND◆ ***NEW!***	8.78	7.80	6.18	—	—	RI-TRP-RF0B-30

◆ ***RoHS Compliant*** Δ For Tape and Reel part number, change 1-ND to 2-ND.

† Recommendation: split each 80 bit page into 64 user programmable bits plus a 16 bit wide CRC CCITT Block Check Character as is done by TI-RFID LF readers * Per ISO 7810 ‡ Depending on RF regulation in country of use, the Reader Antenna configuration used, and the environmental conditions

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High Frequency Transponder Inlays 13.56MHz

Dimensions in mm

Programming Cycles	Antenna Size Inch (mm)	Operating Temperature (°C)	Storage Temperature (°C)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing‡ 5,000	Texas Instruments Part No.
Square									
100,000	1.77 x 1.77 (45 x 45)	-25 ~ 70	-40 ~ 40	481-1146-1-ND ***NEW!***	1.54	1.19	1.04	465.40/M	RI-I11-110A-01
				481-1065-1-ND	1.38	1.07	.94	418.60/M	RI-I11-112A-03
				481-1089-1-ND	1.38	1.07	.94	418.60/M	RI-I11-112B-03
				481-1090-1-ND	1.14	.88	.77	343.20/M	RI-I11-114A-01
				481-1092-1-ND	1.14	.88	.77	343.20/M	RI-I11-114B-01
				481-1091-1-ND	1.20	.92	.81	361.40/M	RI-I11-114A-S1
				481-1093-1-ND	1.20	.92	.81	361.40/M	RI-I11-114B-S1
Rectangle									
100,000	1.77 x 2.99 (45 x 76)	-25 ~ 70	-40 ~ 40	481-1144-1-ND ***NEW!***	1.67	1.29	1.13	505.70/M	RI-I02-110A-01
				481-1066-1-ND	1.57	1.21	1.07	475.80/M	RI-I02-112A-03
				481-1082-1-ND	1.57	1.21	1.07	475.80/M	RI-I02-112B-03
				481-1083-1-ND	1.32	1.02	.90	399.10/M	RI-I02-114A-01
				481-1085-1-ND	1.32	1.02	.90	399.10/M	RI-I02-114B-01
				481-1084-1-ND	1.38	1.07	.94	418.60/M	RI-I02-114A-S1
				481-1086-1-ND	1.38	1.07	.94	418.60/M	RI-I02-114B-S1
	1.34 x 2.56 (34 x 65)	-25 ~ 70	-40 ~ 40	481-1094-1-ND	1.77	1.36	1.20	535.60/M	RI-I15-112B-02
				296-23399-1-ND ***NEW!***	1.10	.92	.74	467.00/M	RI-I15-112B-03
	.89 x 1.5 (22.5 x 38)	-25 ~ 70	-40 ~ 40	481-1145-1-ND ***NEW!***	1.53	1.18	1.04	462.80/M	RI-I03-110A-01
				481-1067-1-ND	1.38	1.07	.94	418.60/M	RI-I03-112A-03
				481-1087-1-ND	1.14	.88	.77	343.20/M	RI-I03-114A-01
				481-1088-1-ND	1.20	.92	.81	361.40/M	RI-I03-114A-S1
Circular									
100,000	1.28 (32.5)	-25 ~ 70	-40 ~ 40	481-1098-1-ND	1.38	1.07	.94	418.60/M	RI-I17-112A-03
				481-1099-1-ND	1.14	.88	.77	343.20/M	RI-I17-114A-01
				481-1100-1-ND	1.20	.92	.81	361.40/M	RI-I17-114A-S1
	0.95 (24.2)	-25 ~ 70	-40 ~ 40	481-1073-1-ND	1.56	1.20	1.05	470.60/M	RI-I16-112A
				481-1095-1-ND	1.38	1.07	.94	418.60/M	RI-I16-112A-03
				481-1074-1-ND	1.56	1.20	1.05	470.60/M	RI-I17-112A
				481-1096-1-ND	1.14	.88	.77	343.20/M	RI-I16-114A-01
				481-1097-1-ND	1.20	.92	.81	361.40/M	RI-I16-114A-S1

‡ For Tape and Reel part number, change 1-ND to 2-ND.

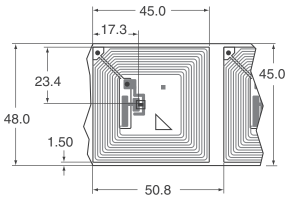

Square
(Rectangle and Circular Not Illustrated)

Programming Cycles	Dimensions Inch (mm)	Weight (Grams)	Operating Temperature (°C)	Storage Temperature (°C)	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
100,000	3.37 x 2.13 x .030 (85.6 x 54 x 0.76)	5	-25 ~ 50	-25 ~ 50	481-1072-ND	4.20	3.50	2.94	RI-TH1-CB1A-00
					481-1069-ND	4.80	2.96	2.62	RI-TH1-CB3A-00
10,000	23.0 x 12.45 x 2.7 (.91 x .49 x .11)	3	-25 ~ 70	-25 ~ 70	481-1079-5-ND	4.02	3.35	2.82	RI-INL-R9QK-20
					481-1080-5-ND	4.20	3.50	2.94	RI-INL-W9QK-30

Gen II Inlay

TEXAS INSTRUMENTS
RFID

RoHS COMPLIANT

This inlay is designed for ease of integration in the smart label conversion process. Gen II products are based on the EPCglobal™ Generation II specification with 96 bits of user programmable EPC™ memory field with read, write, and lock capabilities. 100% tested inlays.

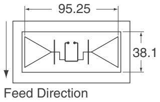

Features:

- **Operating Frequency:** 860 ~ 960MHz
- **Data Retention @ 25°C:** 2 years
- **Write/Erase Cycle @ 25°C:** 1,000

Antenna Size Inch (mm)	Digi-Key Part No.	Cut Tape Price Each			Texas Instruments Part No.
		1	25	100	
3.5 x 1 (88.90 x 25.40)	481-1078-1-ND	1.25	.96	.85	RI-UHF-00C01-03
	481-1078-2-ND	3654.00/10,000			RI-UHF-00C01-03
9.10 x 4.10 (231.14 x 104.14)	481-1115-1-ND	.55	.38	.33	RI-UHF-STRAP-08
	481-1115-2-ND	4900.00/40,000			RI-UHF-STRAP-08

Encapsulated Transponder 13.56MHz

Allows for advanced solutions in demanding supply chain management applications such as laundry tracking. A ruggedized transponder that can withstand harsh environments.

Specifications:

• **Typical Programming Cycles (@ 25°C):** 100,000 • **Memory:** 256 bits • **Data Retention Times (@ 25°C):** 10 years • **Dimensions:** 22 ± 0.2mm x 3 ± 0.2mm • **Weight:** 2.1 ± 0.2 grams • **Case Material:** PPS, Black • **Protection Class:** IP 68 • **Operating Temperature:** -40°C ~ 90°C

481-1081-ND (Texas Instruments # RF-HDT-DVBE-N0) **$2.24**

Transponder Sheeting

This silicone sheeting can be applied to protect 32mm x 3.85mm glass. Transponders for shock intensive applications like sports timing, key-fobs, and vehicle tracking.

Specifications:

• **Usable For:** 32mm TI-RFid Glass Transponder • **Material:** Silicone • **Color:** Transparent • **Operating Temperature:** -40°C ~ 85°C • **Dimension:** Diameter 6mm ± 0.2mm x 35 ± 1mm

481-1024-ND (Texas Instruments # RI-ACC-SHT3-00) .... **$.44**

HF Antenna 13.56MHz

Series 6000 Gate Antenna

This antenna is a single-loop transmit/receive antenna with preset matching electronics for a transmitter frequency of 13.56MHz.

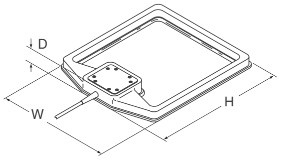

Specifications:

• **Impedance:** 50Ω ± 10Ω • **Connector:** SMA male (50Ω)
• **Cable:** Type: RG58; Length: 3.6m ± 0.1m

Operating Temp. (°C)	Dimensions H x W x D mm	RF Power (Max.)	Digi-Key Part No.	Price Each	Texas Instruments Part No.
-25 ~ 55	337 x 322 x 38	8W	481-1051-ND	473.85	RI-ANT-T01A-00
-25 ~ 55	851 x 620 x 38	10W	481-1058-ND	955.50	RR-IDISC-ANT8-6-B

HF Antenna 13.56MHz

The elegant pad-antenna is perfectly suitable for desk applications with a reading range of up to 30cm. File and document tracking as well as the registration of rental goods during distribution and return are only two out of many possible applications.

Specifications:

• **Maximum RF Power:** 1W • **Connector:** SMA-plug (50Ω) • **Operating Temperature:** 0°C ~ 55°C
• **Dimensions:** 337mm x 237mm x 8.3mm

481-1056-ND (Texas Instruments # RR-IDISC-ANT34-24) **$237.80**

LF Antennas

134.2kHz

Series 2000

Stick Antennas

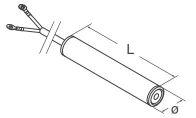

Gate Antennas

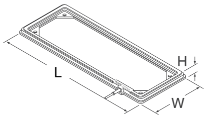

Inductance	Operating Temp. (°C)	Dimensions L x W x H mm	Cable Length (m)	Digi-Key Part No.	Price Each	Texas Instruments Part No.
			Stick Antennas			
27µH @ 134.2kHz	-30 ~ 70	140 x ø21	1	481-1040-ND	116.20	RI-ANT-S01C-00
27µH @ 134.2kHz		140 x ø21	1	481-1120-ND ***NEW!***	145.25	RI-ANT-S01C-30
27µH @ 134.2kHz		140 x ø21	3	481-1121-ND◆ ***NEW!***	162.68	RI-ANT-S02C-30
116µH @ 134.2kHz		133 x ø21.3	0.1	481-1119-ND◆ ***NEW!***	103.75	RI-ANT-P02A-30
			Gate Antennas			
27µH @ 134.2kHz	-30 ~ 60	200 x 200 x 25	1	481-1043-ND	181.25	RI-ANT-G02E-30
27µH @ 134.2kHz		715 x 270 x 25	1	481-1044-ND	181.25	RI-ANT-G01E-30
26µH @ 134.2kHz		1018 x 518 x 47	—	481-1118-ND◆ ***NEW!***	362.50	RI-ANT-G04E-30

◆ ***RoHS Compliant***

Readers/Modules

Series 2000 LF Micro Reader

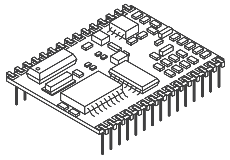

The Series 2000 Micro Reader is an intelligent module that provides all RF and control functions in order to communicate with 134.2kHz HDX/FSK transponders and a host application. It is designed as a 30-pin dual-in-line printed circuit board. The Series 2000 Micro Reader is equipped with a serial communication interface and works together with a 47µH low-Q antenna that eliminates the need to tune the system to resonance.

Specifications: • **Operating Temperature:** -20°C ~ 50°C • **RF Transmit Frequency:** 134.2kHz • **Power Supply:** 5VDC, regulated at 100mA • **Communications Interface:** Serial Communications Interface (SCI) • **Antenna:** 47µH • **Transponder Types:** 134.2kHz HDX/FSK • **Dimensions (mm):** 38.3 x 29.3 x 13.5

481-1029-ND (Texas Instruments # RI-STU-MRD1-30) **$102.60**

Series 2000 LF Control Module

The Series 2000 Control Module is the interface between the TI-RFid Radio Frequency Module RI-RFM-104B, RI-RFM-007B or RI-RFM-008B and the Host. It decodes the received RF signals into the transponder's identification number, checks the validity and handles the conversion to a standard serial interface protocol. In addition it can store up to 909 reading transactions into the buffer. It is offered with two different serial interfaces, the RI-CTL-MB2A for point-to-point communication via an RS232 interface and the RI-CTI-MB6A for point-to-multipoint communication via RS422/485 interface. It has two open collector outputs and eight configure able digital input/outputs that can be defined by the user.

Specifications: • **Operating Temperature:** 0°C ~ 70°C • **Power Supply:** 7 ~ 25VDC, regulated • **Communication Interface:** RS232 (RI-CTL-MB2A-02) RS422/485 (RI-CTL-MB6A-02) • **Dimensions (mm):** 93 x 82 x 33

481-1122-ND *NEW!* (Texas Instruments # RI-CTL-MB2B-30) RS232 **– *RoHS Compliant*** **$261.00**

Series 2000 LF Reader

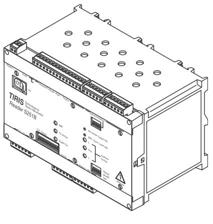

The Series 2000 Reader S251B provides all RF and control functions to communicate with 134.2kHz HDX/FSK transponders. It sends an energizing signal to the transponder, modulates the RF signal to send data to the transponder, decodes and checks the received transponder data and transmits it via a standard serial interface (RS232, RS422/485). The reader includes a Dynamic Auto Tuning (DAT) function that automatically tunes a standard antenna to resonance and keeps it tuned during operation.

Specifications: • **Operating Temperature:** -20°C ~ 70°C • **RF Transmit Frequency:** 134.2kHz • **Power Supply:** 10 ~ 24VDC, regulated • **Communications Interface:** RS232, RS422/485 • **Antenna Tuning Range:** 26 ~ 27.9µH (Dynamic Auto Tuning) • **Transponder Type:** 134.2kHz HDX/FSK • **Dimensions (mm):** 200 x 120 x 120

481-1127-ND *NEW!* (Texas Instruments # RI-STU-251B-30) **– *RoHS Compliant*** **$734.50**

High Performance LF Radio Frequency Modules

Features: Common: • Variable power supply range • Synchronization control in multi-reader arrays • High power output **Remote Antenna RFM:** • (RI-RFM-008B-00) Supports antenna cable lengths up to 120 meters • Capacitive and inductive tuning to resonance

Specifications: • **Operating Temperature:** -25°C ~ 70°C • **Power Supply:** 7 ~ 24VDC regulated (If switching power supply is used, the frequency must be > 200kHz) • **RF Transmit Power:** To be set by pulse width to comply with PTT/FCC regulations • **RF Transmit Frequency:** 134.2kHz • **Antenna Tuning Range:** 26 ~ 27.9µH (8 ~ 80µH including cable for RI-ACC-008B-00) • **Dimensions (mm):** 89 x 93 x 44 (115 x 70 x 27 for RI-ACC-008B-00)

Recommended Accessories: Digital Reader Module RI-CTL-010A (for RI-RFM-007B-00, RI-RFM-007B-30 and RI-RFM-008B-00) Antenna Tuning Module RI-ACC-008B (for RI-RFM-008B-00)

481-1125-ND *NEW!* (Texas Instruments # RI-RFM-007B-30) Standard RFM **– *RoHS Compliant*** .. **$291.81**
481-1034-ND (Texas Instruments # RI-ACC-008B-00) Antenna Tuning Module **$94.62**

Series 2000 LF Mini Radio Frequency Module

The Series 2000 Mini Radio Frequency Module is the interface between a 134.2kHz HDX/FSK transponder and the Data Processing Unit. It sends an energizing signal to the transponder, modulates the RF signal to send data to the transponder, receives the identification signal and processes it for digital decoding. The small size and low supply voltage make the Mini RF module well suited for portable read/write units.

Specifications: • **Operating Temperature:** 0°C ~ 50°C • **Operating Frequency:** 134.2kHz • **Power Supply:** 4.5 ~ 6 VDC, regulated: maximum 1.2A • **Antenna:** Inductivity: 115 ~ 117µH • **Antenna Recommended:** RI-ANT-P02A • **Dimensions (mm):** 60.2 x 55.1 x 11.5

481-1030-ND (Texas Instruments # RI-RFM-003B-00) **$174.00**

Series 2000 LF Antenna Tuning Indicator

Antenna Tuning Indicator makes the resonance tuning of the TI-RFid's Standard RFM and the High Performance RFM easy. LEDs indicate in which direction the tuning core should be turned (RI-RFM-104B) or whether tuning capacitance needs to be added or removed (RI-RFM-007B) to bring a connected antenna to resonance.

Specifications: • **Operating Frequency:** 134.2kHz • **Resonance Tuning Accuracy (Green LED on):** ±600Hz • **Operation with RF Modules:** RI-RFM-104B, RI-RFM-007B • **Operation with Reader:** RI-STU-MB2A, RI-STU-MB6A • **Operating Temperature:** 0°C ~ 50°C • **Dimensions: Housing (mm):** 72 x 50 x 26, **Cable Length (mm):** 235 ±5

481-1025-ND (Texas Instruments # RI-ACC-ATI2-00) **$141.10**

HF 8X Antenna Multiplexer

The 8 times multiplexer facilitates switching between RFid antennas with an operating frequency of 13.56 MHz. With one multiplexer several single antennas and gate solutions (existing of base and complementary antennas) can be operated with only one reader. Any of the eight multiplexers outputs can be assigned to both inputs by jumper adjustment. The multiplexer is controlled either via a digital input or the antenna cable connected with the reader.

Specifications: • **Operating Temperature:** -25°C ~ 65°C • **Operating Frequency:** 13.56MHz • **Power Supply:** 12 ~ 24 VDC • **Maximum Allowed Switching Capacity:** 10W • **RF Connections:** 2x Input/8x Output SMA Socket (50Ω) • **Dimensions (mm):** 182 x 110 x 90

481-1054-ND (Texas Instruments # RR-IDISC-ANTMUX-A) **$1517.25**

(Continued)

Series 6350 HF Midrange Reader Module

Specifications: • Operating Frequency: 13.56MHz **• Supported Transponders:** Tag-it™ HF, Tag-it™ HF-I and ISO 15693 compliant transponders **• Supply Voltage:** 5VDC **• Transmitter Power:** 120mW into 50Ω **• Antenna Connection:** 2 pins of 16-pin header connector **• Antenna Impedance:** 50Ω @ 13.56MHz **• Communication Interface:** RS232 **• Operating Temperature:** -20°C ~ 70°C **• Dimensions (mm):** 109.22 x 68.58 x 10.2

481-1102-ND (Texas Instruments # RI-STU-TRDC-30).. **$152.25**

Series 6550 HF Long Range Reader (Housed)

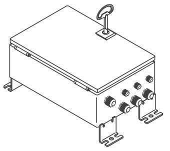

Specifications: • Operating Frequency: 13.56MHz **• Supported Transponders:** Tag-it™ HF, Tag-it™ HF-I, ISO 15693 compliant Transponders **• Power Supply:** 100-120V/60Hz or 220-240V/50Hz **• Transmitter Power:** 0.5W ~ 10W ± 1dB **• Antenna Connection:** 2 x SMA Female **• Antenna Impedance:** 50Ω at 13.56MHz **• Communication Interfaces:** RS232 or RS485 **• Operating Temperature:** -20°C ~ 55°C **• Dimensions (mm):** 300 x 200 x 160

481-1050-ND (Texas Instruments # RI-STU-655A)... **$1848.75**

Series 6500 HF Long Range Reader Module

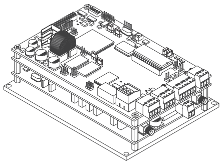

Specifications: • Operating Frequency: 13.56MHz **• Supported Transponders:** Tag-it™ HF, Tag-it™ HF-I, ISO 15693 compliant Transponders **• Supply Voltage:** 24VDC **• Transmitter Power:** 0.5W ~ 10W ±1dB **• Antenna Connection:** 2 x SMA female **• Antenna Impedance:** 50Ω at 13.56MHz **• Communications Interfaces:** RS232 or RS485 **• Operating Temperature:** -20°C ~ 65°C **• Dimensions (mm):** 160 x 120 x 67

481-1049-ND (Texas Instruments # RI-STU-650A-00) **$1402.50**

Series 6700 HF Multi-Protocol Transceiver IC

The S6700 Multi Protocol Transceiver IC enables a broad range of 13.56MHz RFID interrogator designs for portable and stationary readers. This low power consumption device supports multiple RF communication protocols, minimizes onboard power requirements and reduces parts count in a final reader product.

Specifications: • Operating Frequency: 13.56MHz **• Supported RF Communication Protocols:** Tag-it™ HF, ISO 15693-2 and ISO 14443-2 **• Operating Voltage:** 3.3V ~ 5VDC **• Transmitter Power:** 200mW at 5VDC **• Antenna Impedance:** 50Ω at 13.56MHz **• Communication Interface:** Serial interface **• Operating Temperature:** - 40°C ~ 85°C **• Package:** SSOP 20

Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,500	Texas Instruments Part No.
481-1046-1-ND	15.79	13.53	11.28	481-1046-2-ND	5998.30/M	RI-R6C-001A-03

Mid-Range Reader

This reader has an aluminum housing with the protection class of IP 54 which protects against dust, dirt and syringe water. Transmitting power of 1.7 watts and read ranges of up to 70cm.
The reader has several I/Os and has the serial interfaces RS232 and RS485 which can be adjusted by the software.

Specifications:

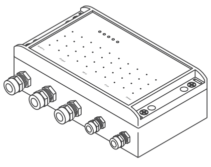

- **Operating Frequency:** 13.56MHz
- **Dimensions (L x W x H):** 200 x 110 x 60mm
- **Antenna Connection:** SMA-plug (50Ω)
- **Outputs:** 2 Optocouplers, 24VDC/30mA; 1 Relay, 24VDC/2A
- **Inputs:** 2 Optocouplers, Maximum 24VDC/20mA
- **Interfaces:** RS232 and RS485 (adjustable)
- **Signal Generator:** 5 LED
- **Operation Temperature:** -20°C ~ 60°C
- **Storage Temperature:** -25°C ~ 85°C

481-1064-ND (Texas Instruments # RR-IDISC-MR200-A) **$1421.63**

S4100 Multi-Function Reader Module

Texas Instrument's RFid S4100 Multi-Function Reader communicates with transponders and vicinity/proximity cards compliant with ISO/IEC 14443 A/B and ISO/IEC 15693. It also supports Texas Instrument's Low Frequency DST, Read-Only, and Read-Write Transponder at 134.2kHz, along with Tag-It High Frequency Transponder at 13.56MHz. This is accomplished through dedicated RF Analog Front End (AFE) sections controlled by a high-performance 8-bit Advanced RISC microcontroller with a Harvard architecture, onboard FLASH, EEPROM and SRAM. The power and flexibility of this platform offer a scalable solution that can be fitted to a broad range of applications.

Features: • USART for I/O communication • Three general purpose I/O lines • Dual frequency operation – 134.4kHz and 13.56MHz • Multi-Protocol – TI RFid LF products, TI RFid HF Tag-It, ISO 15693 and ISO14443 A/B • Custom firmware downloadable • Scalability/Modular architecture • Power On-Reset operation • Firmware upgradeable **Specifications: • Transmitter Power (HF):** 200mW **• Transmitter Peak-Current (LF):** 1.1 Amps peak **• Antenna Impedance (HF):** 50Ω @ 13.56MHz **• Antenna Impedance (LF):** 440μH (Approximately) **• Dimensions:** 69mm x 38mm x 10mm **• Supply Voltage:** 4.5V minimum 5.5V maximum **• Operating Temperature:** -20°C ~ 70°C • Optional interface cable is HF-06U-12-ND; mating connector is WM5701CT-ND

481-1052-ND (Texas Instruments # RF-MGR-MNMN-N3)... **$91.20**

S4100 Multi-Function Reader Evaluation Kit

The kit enables users to experience the MFR and its functions in a PC-based environment. The Base application allows users to execute standard read/write/lock commands, as well as experiment with anti-collision and multiple-technology environments.

With standard RS-232 and RS-485 serial I/O ports, the S4100 MFR is plug-and-play solution, ideal for logical access applications, as well as financial, ticketing, loyalty, access control, and others. The kit includes a platform independent software API, which facilitates development of PC-based software. This API is cross-compatible with other HF readers in the TI portfolio, including the S6500 Long-Range reader and the S6350 Mid-Range reader.

Features: • Dual Frequency: 134.2kHz, 13.56MHz **• Multi-Protocol:** TI RFid LF Products, TI RFid HF Tag-It, ISO 15693, ISO 14443 A/B **• 2 Serial I/O Ports:** RS-232, RS-485 • Software Development API Included **• Supply Voltage:** 9VDC

Kit Includes: • MFR-based Housed Reader • Universal power supply • Global power adapters • RS-232 Communications cable • Sample HF and LF Transponders • Spare MFR module • Software resource CD: Demo Software, Software Development API, Reference Manuals, additional Resources • Getting Started Guide

481-1061-ND (Texas Instruments #RX-MFR-RNLK-00) **$600.00**

TRF7960 Evaluation Module

The TRF7960 evaluation module (EVM) helps designers evaluate the performance of the TRF7960 multiple protocol RFID transceiver. The device incorporates an analog front end, protocol handling, framing, error checking, and multiple integrated voltage regulators with other features that allow the reader to be customized/configure able for the end application.

TRF7960 Features: • Support for the ISO 15693, 180003-1, and Tag-it™ standards • Support for both the ISO 14443A standard and the ISO 14443B standard (up to layer 4) • Self contained — has an on-board 13.56MHz loop antenna and interface • Communication with host software on a Windows-based PC through a standard USB cable • Protocol indication LEDs — (stand alone mode) required to indicate detection of a tag

Hardware Features: • TRF7961 supports 180003-1 and Tag-it™ standards • Supports both parallel and SPI communication interfaces between the TRF7960 and the MSP430 on-board (configure able using an on-board jumper setting) • A faster and lower-power MSP430 on board. The TRF7960EVM uses the state-of-the-art MSP430F2370 with maximum speeds up to 16MHz and is available in a tiny 40-pin QFN package • Power-selection jumper

Description	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel† Qty.	Price	TI Part No.
Evaluation Module	481-1106-ND	204.00	—	—	—	—	TRF7960EVM
Front End	481-1105-1-ND‡◆	15.09	12.93	10.78	250	1724.00	TRF7961RHBT
Front End	481-1107-1-ND‡◆	17.01	14.58	12.15	3,000	6196.50/M	TRF7960RHBR

† For Tape and Reel part number, change 1-ND to 2-ND ‡ Cut Tape ◆ ***RoHS Compliant***

LF RFID-Evaluation Kit

This Low Frequency (134.2kHz) Evaluation Kit includes the Series 2000 Standard Reader with RS232 Interface, a stick antenna, a variety of transponder packages for Read Only, Read/Write, Multi-page or Selective Addressable applications, plus demonstration software that runs on your desktop computer to allow you to experiment with all the features of the RFID system.

Contents: • S2000 Reader with RS232 Interface • Stick Antenna • Set of R/O, R/W, M/P Transponders in various packages • PC Interface Cable • CD with User Documentation and Demo Software • Getting Started Guide • 9V Power Supply Input 100V-240V, 1.5A with various main power connectors for international use

481-1038-ND (Texas Instruments # RI-K2A-001A-01) **$801.60**

LF Base Station IC

The LF base station allows efficient development and production of RFID readers for vehicle immobilizers. This base station IC drives the antenna of a TI-RFID transponder system to send data modulated on the antenna signal, and to detect and demodulate the response from the transponder. It also allows minimizing the external component count.

Features: • Self-adapting to transponders with a resonance frequency between 129kHz ~ 140kHz • Power management for 5V operation • Over-current protection of antenna driver

Specifications: • Operating Frequency: Typical 134.2kHz, FSK **• Operating Voltage:** 4.5 ~ 5.5VDC **• Operating Temperature:** -40°C ~ 85°C **• Package/Pin Count:** SO16 (10 x 6mm)

Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	Texas Instruments Part No.
481-1063-1-ND	10.54	9.03	7.53	481-1063-2-ND	3837.76/M	RI-TMS3705ADR

LF Micro Evaluation Kit

This easy-to-use kit gives the opportunity to explore the capabilities of Texas Instruments 134.2kHz Radio Frequency Identification (RFID) technology TIRIS™. The core of this LF Evaluation Kit is the CE and FCC approved Series 2000 Micro Reader which is mounted on an Interface Board combined with an antenna. Various transponder samples and demonstration software that runs on your desktop computer allow you to experiment with all the features of the RFID system.

Contents: • S2000 Micro Reader RI-STU-MRD1 mounted on an Interface Board with RS232 IF Port, Power Connector and Antenna Connector • Antenna • 9-Pin D-Sub Cable (female-female connector) • Various Transponder Samples • CD with User Documentation and Demonstration Software • Getting Started Guide • 9V Power Supply Input 100V-240V, 1.5A with various main power connectors for international use

481-1039-ND (Texas Instruments # RI-K3A-001A-00) **$300.00**

TIRIS™ RF-Module for Automotive

RI-RFM-006A is a CMOS technology based RF-module IC which integrates all transmitter-receiver functions required for constructing a TIRIS Read-Write System into one single chip. RI-RFM-006A consists of a transmitter signal control logic which generates signals for transmission and for sending the data you wrote to a remote TIRIS transponder, and a receiver amplifies and demodulates frequency shift keyed (FSK) signals received from this transponder.

Features: • Operating supply voltage: 4.5V ~ 5.5V • Operating temperature range: -40°C ~ 85°C • Package: 16-pin SOP • Structure: CMOS process

Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Texas Instruments Part No.
481-1117-1-ND	12.39	10.62	8.85	481-1117-2-ND	4513.50/M	CF45538NSRG4

TOSHIBA RF Wireless Evaluation Kit

The Evaluation kits allow for a detailed evaluation of the Transceivers and Receiver. They enable testing of the device's RF performance and require no additional support circuitry.
The RF input uses a 50Ω matching network and an SMA connector for convenient connection to test equipment. The EV kit can also directly interface to the user's embedded design for easy data decoding.
For easy implementation into the customer's design, the kits also feature a proven PC board layout, which can be easily duplicated for quicker time to market.

TA31275EVKIT Contents: • 1 TA31275M receiver module • 1 TA32305M transceiver module • 2 Antennas • CD ROM with all design and application documentation

TA32305EVKIT Contents: • 2 TA32305M transceiver modules • 2 Antennas • CD ROM with all design and application documentation

Frequency	Digi-Key Part No.	Price Each	Toshiba Part No.
315MHz	TA31275EVKIT-315-ND	169.95	TA31275EVKIT-315
433MHz	TA31275EVKIT-433-ND	169.95	TA31275EVKIT-433
315MHz	TA32305EVKIT-315-ND	198.95	TA32305EVKIT-315
433MHz	TA32305EVKIT-433-ND	198.95	TA32305EVKIT-433

Transceivers and Receiver

Function	Frequency	Supply Voltage (V)	Package	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Digi-Key Part No.	T & R Pricing 2,000	Toshiba Part No.
Trans-ceiver	2.4GHz	2.7 ~ 3.3	36-QON	TB32301AFLCT-ND	5.06	40.50	TB32301AFLTR-ND	2868.75/M	TB32301AFL
	240 ~ 450MHz	2.2 ~ 5.5	30-SSOP	TA32305FNGCT-ND◆	3.87	30.96	TA32305FNGTR-ND◆	2193.00/M	TA32305FNG
Receiver	100 ~ 450MHz	2.4 ~ 5.5	24-SSOP	TA31275FNGCT-ND◆	2.48	19.80	TA31275FNGTR-ND◆	1287.00/M	TA31275FNG

◆ *RoHS Compliant*

NEW! TriQuint SEMICONDUCTOR RF Amplifiers, SAW Filters and RF Componenets

Fig. 1

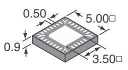

Fig. 2

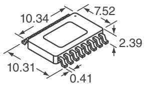

Fig. 3

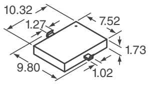

Fig. 4

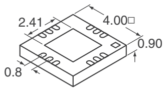

Fig. 5

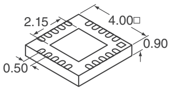

Fig. 6

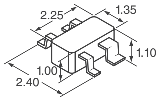

Fig. 7

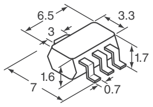

Fig. 8

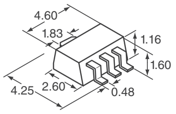

Fig. 9

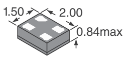

Fig. 10

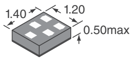

Fig. 11

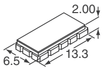

Fig. 12

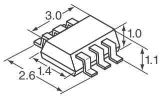

Fig. 13

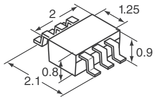

Fig.	Frequency Range (GHz)	P1dB/OIP3 (dBm)†	Gain (dB)	Voltage/Current (V/mA)	Description	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 25	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	TriQuint Part No.
					Amplifiers up to 1W									
1	2.3 ~ 2.8	30 / 40	28	6 / 710	WiMAX Driver Amp., SB§	28-QFN	779-1000-ND	10.63	7.06	5.32	—	—	—	TGA2702-SM
	3.3 ~ 3.8	30 / 42	24	6 / 770	WiMAX Driver Amp.	28-QFN	779-1001-ND	10.63	7.06	5.32	—	—	—	TGA2703-SM
					Amplifiers 1W ~ 4W									
2	0.04 ~ 1.0	31.5 / 55	12	12 / 510	CATV Ultra Linear HPA	16-SOIC	779-1011-1-ND	45.22	40.38	36.34	779-1011-2-ND	1,000	19380.00	TGA2801D-SG-T/R
					Amplifiers 4W and up									
3	3.5	37.5 / 49	11	8 / 750	5W HPA, HFET	2-SMD	779-1013-1-ND	38.08	34.00	30.60	779-1013-2-ND	500	8160.00	TGA2925-SG-T/R
					Amplifiers – Gain Block									
4	11.0 ~ 17.0	17 / —	23	6 / 75	Driver Amp., SB§	12-QFN	779-1010-1-ND	35.70	31.88	28.69	779-1010-2-ND	500	7777.50	TGA2507-SM-T/R
5	0.04 ~ 1.0	27 / 46	20	8 / 350	CATV TIA/Gain Block, SB§	20-QFN	779-1012-1-ND	32.14	28.70	25.83	779-1012-2-ND	1,000	13776.00	TGA2803-SM-T/R
					Low Noise Amplifiers									
5	2.0 ~ 20	16 / —	17	5 / 75	LNA / AGC‡	12-QFN	779-1002-ND	110.50	73.38	55.25	—	—	—	TGA2513-SM
6	Up to 4.0	— / 13	17	3 / 30	LNA / Discrete	SC70-4	779-1006-1-ND	1.79	1.60	1.44	779-1006-2-ND	2,500	840.00/M	CFH800
					Discrete Transistors									
7	DC ~ 2.5	26.5 / —	11	2.7 ~ 6 / 350	MESFET	SOT-223	779-1007-1-ND	5.60	5.00	4.50	779-1007-2-ND	1,000	3040.00	CLY5
8	DC ~ 5	27 / 40	19	8 / 100	0.5W HFET	SOT-89	779-1014-1-ND	10.36	9.25	8.33	779-1014-2-ND	500	2220.00	TGF2960-SD-T/R
	DC ~ 4	30 / 44	18	8 / 200	1W HFET	SOT-89	779-1015-1-ND	12.18	10.88	9.79	779-1015-2-ND	500	2610.00	TGF2961-SD-T/R

† Value is IIP3 for LNA Product ‡ Automatic Gain Control § Self Biased

Fig.	Frequency (MHz)	Bandwidth (MHz)	Typical Insertion Loss	I/O Config-uration	Description	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 100	Cut Tape Price Each 500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	TriQuint Part No.
					SAW Filters									
9	915	26	2.3	SE/SE	ISM 915MHz Band RF Filter	4-CSP	779-1003-1-ND	10.92	7.90	4.95	779-1003-2-ND	10,000	1090.00/M	856327
	1575.42	2	1.25	SE/SE	GPS RF Filter	4-CSP	779-1005-1-ND	8.50	5.10	2.55	779-1005-2-ND	10,000	880.00/M	856584
10	2441	83.5	2	SE/SE	Bluetooth RF Filter	5-CSP	779-1004-1-ND	4.76	2.86	1.43	779-1004-2-ND	10,000	490.00/M	856539
11	70	3.5	7.25	SE/SE	Low Loss IF Filter	SMP-53	779-1016-1-ND	39.64	28.32	20.23	779-1016-2-ND	2,000	14772.00/M	854657
	70	7	8.5	SE/SE	Low Loss IF Filter	SMP-53	779-1017-1-ND	39.64	28.32	20.23	779-1017-2-ND	2,000	14772.00/M	854662
	70	14	12.5	SE/SE	Low Loss IF Filter	SMP-53	779-1018-1-ND	39.64	28.32	20.23	779-1018-2-ND	2,000	14772.00/M	854667
	70	28	17.6	SE/SE	Low Loss IF Filter	SMP-53	779-1019-1-ND	39.64	28.32	20.23	779-1019-2-ND	2,000	14772.00/M	854674
	140	6.85	5.5	SE/SE	Low Loss IF Filter	SMP-53	779-1020-1-ND	39.64	28.32	20.23	779-1020-2-ND	2,000	14772.00/M	854913
	140	16	8.4	SE/SE	Low Loss IF Filter	SMP-53	779-1021-1-ND	39.64	28.32	20.23	779-1021-2-ND	2,000	14772.00/M	854919
	140	32	11.5	SE/SE	Low Loss IF Filter	SMP-53	779-1022-1-ND	39.64	28.32	20.23	779-1022-2-ND	2,000	14772.00/M	854927

(Continued)

NEW! TriQuint SEMICONDUCTOR RF Amplifiers, SAW Filters and RF Componenets *(Cont.)*

Fig.	RF Frequency Range (GHz)	Conversion Gain (dB)	LO/RF Isolation (dB)	Voltage/ Current V/mA)	Description	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TriQuint Part No.
Frequency Mixers														
12	0.5 ~ 2.5	-5.7	8	3 ~ 6 / 6	Wideband Mixer, LO	MW6	779-1008-1-ND	3.72	2.39	1.99	779-1008-2-ND	3,000	1380.00/M	CMY210

Fig.	Frequency (GHz)	Insertion Loss (dB)	Isolation (dB)	P1dB (dBm)	Description	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TriQuint Part No.
RF Switch														
13	DC ~ 2.5	0.3	24	30	SP2T General Purpose	SC70-6	779-1009-1-ND	1.06	.95	.86	779-1009-2-ND	2,500	461.80/M	CSH210R

NEW! Unigen Juno Wireless USB™ Modules

A low-cost, 2.4GHz adaption of the Universal Serial Bus for connecting a variety of low-data rate devices to host systems. It is an ideal solution for a host of consumer electronic and traditional computer input devices as well as a drop-in design solution using native HIS Operating System drivers to seamlessly enumerate and operate mouse, keyboard and gaming devices.

Features: • Cypress Semiconductors Wireless USB devices • 62.5Kb/second data rate • 2.4 ~ 2.483GHz DSSS Radio • No Proprietary Software • Vertical or Horizontal Application • Form Factor as small as 1" sq.

Note: See Data Sheet for Certifications

Range (Meters)	Antenna	Voltage (V)	Digi-Key Part No.	Price Each 1	10	25	Unigen Part No.
10	Mini-Coaxial	3.3	784-1000-ND	12.49	9.49	7.61	UGWM1USHN33
			784-1002-ND	14.49	10.99	8.85	UGWB1USHM33
			784-1004-ND	14.79	11.49	8.99	UGWL1USHN33
	Trace	3.3	784-1003-ND	14.49	10.99	8.85	UGWB1USHM33A
			784-1005-ND	14.79	11.49	8.99	UGWL1USHN33A
50	Trace	3.3	784-1001-ND	12.99	9.99	7.99	UGWW2USHN33A
1000	Mini-Coaxial	3.3	784-1008-ND	18.99	14.49	11.53	UGWR2USHN33
			784-1009-ND	18.49	14.29	11.31	UGWP2USHN33
50	Trace	5	784-1006-ND	19.99	15.49	12.18	UGQUBE1USB450A
			784-1007-ND	19.99	15.49	12.18	UGQUBE1USB350A
			784-1010-ND	21.99	16.49	13.20	UGQLSL4USE050A

Leto Wireless USB™ Modules

The LETO Wireless USB devices are tightly integrated, low-cost, high-reliability 2.4GHz TX/RX communications devices for use with Human Interface Devices (HID) class compliant products. The Leto devices are based on the CYRF6936 LP 2.4GHz DSSS Radio SOC device and are a complete radio solution requiring only integration into an existing, or new device. Leto devices are 100% tested for functional operation and are pre-screened for FCC Part 15 compliance

Features: • Operates in the 2.4 ~ 2.483GHz, unlicensed frequency range (ISM - Industrial, Scientific and Medical) • Receive sensitivity up to -97dBm • DSSS data rates up to 250kbps, GFSK data rate of 1Mbps • 4MHz SPI microcontroller interface • Internal PA Setting: 5 (-5dBm) ~ 7 (4dBm)

Range (Meters)	Antenna	Voltage (V)	Digi-Key Part No.	Price Each 1	10	25	Unigen Part No.
10	Trace	3.3	784-1011-ND	11.99	8.99	7.25	UGWG4USHN33A
		3.3	784-1012-ND	11.99	8.99	7.25	UGWE4USUHN33A
		5	784-1014-ND	23.99	18.49	14.79	UGQLUE4USE050A
		5	784-1015-ND	23.99	18.49	14.79	UGQLPE4USE050A
		6 ~ 9	784-1016-ND	79.99	69.99	57.20	UGWF4US50A
1000	Mini-Coaxial	3.3	784-1013-ND	18.49	13.99	11.31	UGWJ4USHN33A

Flora ZigBee® Modules

The Flora Wireless modules feature Texas Instruments CC2430 System-on-Chip. This processor is capable of supporting both the IEEE 802.15.4 MAC and ZigBee stack from Texas Instruments. The System-on-Chip includes a fully qualified IEEE 802.15.4 radio and embedded 8051 microcontroller. Beyond IEEE802.15.4 network applications, the CC2430 is an outstanding low-power Direct Sequence Spread Spectrum (DSSS) radio with proven immunity from common 2.4GHz band interference sources. The combination of DSSS and CSMA/CA techniques are optimized for low-power applications with long sleep cycles, infrequent bursts of information and efficient binding

Features: • 2.4GHz IEEE 802.15.4 compliant RF transceiver • DSSS Direct Sequence Spread Spectrum • CSMA/CA Hardware Support • Excellent Receiver sensitivity and robustness • AES 128 Encryption • Small Size 24 x 39 x 3mm • High quality Local Oscillator for optimal radio sensitivity • Adapter Board for TI SmartRF04EB Development System Available

Range (Meters)	Antenna	Voltage (V)	Digi-Key Part No.	Price Each 1	10	25	Unigen Part No.
50	Trace	3.3	784-1017-ND	36.99	27.99	22.65	UGWY154HP33A
	Trace	3.3	784-1020-ND	43.99	32.99	26.72	UGWZC154HP33A
	GSC UL.F	3.3	784-1018-ND	36.99	28.49	23.01	UGWY154HP33
	U.FL	3.3	784-1019-ND	43.99	33.49	27.07	UGWZC154HP33
Adapter Board for TI SmartRF04EB			784-1021-ND	6.99	5.49	4.35	UGWTI154ADAPTER

Zepher ZigBee® Modules

The Zepher Wireless Modules feature Texas Instruments CC2431 System-on-Chip. This processor is capable of supporting both the IEEE 802.15.4 MAC and Zigbee stack from Texas Instruments. The System-on-Chip includes a fully qualified IEEE 802.15.4 radio and embedded 8051 microcontroller. Beyond IEEE 802.15.4 network applications, the CC2431 is an outstanding low-power Direct Sequence Spread Spectrum (DSSS) radio with proven immunity from common 2.4GHz band interference sources. The combination of DSSS and CSMA/CA techniques are optimized for low-power application with long sleep cycles, infrequent bursts of information and efficient binding.

Features: • Location Engine • 2.4GHz IEEE802.15.4 compliant RF Transceiver • DSSS Direct Sequence Spread Spectrum • CSMA/CA Hardware Support • Excellent Receiver sensitivity and robustness • AES 128 Encryption • Small size 24 x 39 x 3mm • High quality local Oscillator for optimal radio sensitivity

Range (Meters)	Antenna	Voltage (V)	Digi-Key Part No.	Price Each 1	10	25	Unigen Part No.
50	Trace	3.3	784-1022-ND	38.99	29.99	24.10	UGWY155HP33A
	GSC UL.F	3.3	784-1023-ND	39.49	30.49	24.46	UGWY155HP33

Echo UHF Modules

The Unigen Echo-SMT products are based on the Samtech XE1205 UHF Transceiver. The XE1205 is optimized for long range, low data-rate applications. Three versions are available; 433, 868 and 915MHz. The Echo Module is an SPI peripheral used with an external microcontroller. The RF Interface is 50Ω single-ended via the SMT connections.

Features: • True UART to Antenna Solution • 433/868/915MHz Versions • Digital Direct Interface • Fully Assembled and Tested • 30.5 x 18.5mm • Supply Voltage: 2.4 ~ 3.6V • Frequency Synthesizer Steps 500Hz • Output Power is programmable up to 15dBm • High Rx 0.1% Sensitivity down to -113dBm at 4.8kbps • Data Rate up to 152.3kB • Line Power 62mA Tx/14mA Rx

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	25	Unigen Part No.
433	784-1024-ND	32.99	25.49	20.58	UGW5S4XESM33
868	784-1025-ND	32.99	25.49	20.45	UGW5S8XESM33
915	784-1026-ND	32.49	24.99	19.95	UGW5S9XESM33

Pan UHF Modules

The Unigen Pan Modules are based on the Samtech XE1203 UHF Transceiver. The XE1203 is optimized for high data rate, short range applications. Three versions are available; 433, 868 and 915MHz. The Pan module is an SPI peripheral used with an external microcontroller. The RF Interface is 50Ω single-ended via the SMT connections.

Features: True UART to Antenna Solution • 433/868/915MHz Versions • Digital Direct Interface • Fully Assembled and Tested • 30.5 x 18.5mm • Supply Voltage: 2.4 ~ 3.6V • Frequency Synthesizer Steps 500Hz • Output Power is programmable up to 11dBm • Receiver Sensitivity down to -111dBm • Data Rate up to 153.2kB • Line Power 62mA Tx/14mA Rx

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	25	Unigen Part No.
433	784-1027-ND	33.99	25.49	20.66	UGW3S4XESM33
868	784-1028-ND	33.49	25.49	20.33	UGW3S8XESM33
915	784-1029-ND	31.99	24.49	19.50	UGW3S9XESM33

ZETEX SEMICONDUCTORS RF Amplifiers

The ZNBG range of fixed bias controllers provides all the bias requirements for GaAs and HEMT FETs typically used in satellite receiver LNBs and other general GaAs FETs applications. The IC provides a drain voltage of +2.2V and a gate voltage of -3V which is generated from an internal generator. The range supports up to 6 independent GaAs FETs and all stages are fully protected and temperature compensated.

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
LNA, 18dB Gain, Low Current Amplifier	SC70-6	ZAMP001H6CT-ND	1.05	.91	.83	—	—	—
Medium Power, 22dB Gain, Wide Dynamic Range Amplifier	SC70-6	ZAMP002H6CT-ND	1.05	.91	.83	ZAMP002H6TR-ND	3,000	451.50/M
LNA, 15dB Gain, Very Low Current Amplifier	SC70-6	ZAMP003H6CT-ND	1.05	.91	.83	ZAMP003H6TR-ND	3,000	451.50/M
FET Bias Controller, 2 Stage	10-MSOP	ZNBG2000X10CT-ND	9.00	6.75	4.50	ZNBG2000X10TR-ND	1,000	2550.00
FET Bias Controller, 4 Stage	16-QSOP	ZNBG4000Q16CT-ND	9.11	6.84	4.56	ZNBG4000Q16TR-ND	2,500	2277.00/M
FET Bias Controller, 6 Stage	20-QSOP	ZNBG6000Q20CT-ND	13.66	10.25	6.84	ZNBG6000Q20TR-ND	2,500	3415.50/M

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Logical Systems

Programming and Prototyping Adapters

Description	Recommended For Use With	Digi-Key Part No.	Price Each	Logical Systems Part No.
Programming Adapters				
8 Pin SOIC .150" Wide Socket to 8 Pin .300" Wide DIP Plug 8 Pin SOIC .150" Wide Socket to 8 Pin .600" Wide DIP Plug	PIC12(L)C508A, 509A; PIC12(L)CE518, 519	309-1045-ND 309-1046-ND	60.00 60.00	PA8SO1-03-3 PA8SO1-03-6
8 Pin SOIC .210" Wide Socket to 8 Pin .300" Wide DIP Plug 8 Pin SOIC .210" Wide Socket to 8 Pin .600" Wide DIP Plug	PIC12(L)C508A, 509A; PIC12(L)CE518, 519; PIC12C671, 672	309-1047-ND 309-1048-ND	70.00 70.00	PA8SO1-2006-3 PA8SO1-2006-6
14 Pin SOIC .150" Wide Socket to 14 Pin .300" Wide DIP Plug 14 Pin SOIC .150" Wide Socket to 14 Pin .600" Wide DIP Plug	PIC16C505	309-1000-ND 309-1001-ND	60.00 60.00	PA14SO1-03-3 PA14SO1-03-6
18 Pin SOIC .300" Wide Socket to 18 Pin .300" Wide DIP Plug 18 Pin SOIC .300" Wide Socket to 18 Pin .600" Wide DIP Plug	PIC16C52-58, 61, 554, 558, 621-625, 71, 710-717, F83, 84; PIC16HV510; Z86C(E)(L)02, 03, 04, 06, 08, 16, 28; Z8E000, 001	309-1010-ND 309-1011-ND	70.00 70.00	PA18SO1-08H-3 PA18SO1-08H-6
20 Pin SOIC .300" Wide Socket to 20 Pin .300" Wide DIP Plug 20 Pin SOIC .300" Wide Socket to 20 Pin .600" Wide DIP Plug 20 Pin SSOP Socket to 20 Pin .300" Wide DIP Plug	PIC16C770, 771	309-1012-ND 309-1013-ND 309-1014-ND	70.00 70.00 80.00	PA20SO1-08H-3 PA20SO1-08H-6 PA20SS-OT-3
20 Pin SSOP Socket to 18 Pin .600" Wide DIP Plug	PIC16C56(A), 58A(B), 554, 558, 620(A), 621, E623-E625, 710-717; PIC16HV540	309-1016-ND	80.00	PA20SS-P54
28 Pin SOIC .300" Wide Socket to 28 Pin .300" Wide DIP Plug 28 Pin SOIC .300" Wide Socket to 28 Pin .600" Wide DIP Plug	PIC14000; PIC16C55, 57, 62, 63, 66, 72, 73, 76, 642, 773, F872, F873, F876; PIC18C242, 252; Z86C(E)(L)30, 31, 33, 34, 35, 36, 83, 84; Z86233, 733	309-1023-ND 309-1024-ND	70.00 70.00	PA28SO1-08H-3 PA28SO1-08H-6
28 Pin SSOP Socket to 28 Pin .600" Wide DIP Plug	PIC14000, PIC16C62A(B), 63A, 72(A), 73B, 773, F872	309-1025-ND	80.00	PA28SS-OT-6
28 Pin SSOP Socket to 28 Pin .600" Wide DIP Plug	PIC16C55(A), 57(C)	309-1026-ND	80.00	PA28SS-P55
32 Pin PLCC Auto-Eject Socket to 28 Pin .600" Wide DIP Plug 32 Pin PLCC Lidded ZIF Socket to 28 Pin .600" Wide DIP Plug	AT27C(BV, LV) 512, 256, 128, 28BV64, 29C256, 28C17, 27C040	309-1089-ND 309-1090-ND	70.00 90.00	PA32-28 PA32-28Z
32 Pin PLCC Auto-Eject Socket to 32 Pin .600" Wide DIP Plug 32 Pin PLCC Lidded ZIF Socket to 32 Pin .600" Wide DIP Plug	AT27C010, 020, AT49F(BV,LV) 001, 002, 020, AT29C010, 020, 040A, 512	309-1091-ND 309-1092-ND	70.00 90.00	PA32-32 PA32-32Z
44 Pin PLCC Auto-Eject Socket to 40 Pin .600" Wide DIP Plug 44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug	AT89C51, 8051	309-1093-ND 309-1094-ND	115.00 135.00	PA51-44 PA51-44Z
44 Pin PLCC Auto-Eject Socket to 40 Pin .600" Wide DIP Plug 44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug	AT27C1024, 2048, 4096	309-1095-ND 309-1096-ND	115.00 135.00	PA280-44 PA280-44Z
44 Pin PQFP Socket to 40 Pin .600" Wide DIP Plug 44 Pin TQFP Socket to 40 Pin .600" Wide DIP Plug	PIC16C64A, 65A(B), 67, 662, 74A(B), 774, 77, F874, F877	309-1002-ND 309-1003-ND	165.00 165.00	PA16C64-QD-16 PA16C64-QD-03
44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug 44 Pin TQFP Socket to 40 Pin .600" Wide DIP Plug	PIC17C42(A), 43, 44	309-1007-ND 309-1008-ND	135.00 165.00	PA17C42-PDZ PA17C42-QD-03
44 Pin PLCC Auto-Eject Socket to 40 Pin .600" Wide DIP Plug 44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug	PIC16C64A, 65A(B), 67, 662, 74A (B), 774, 77, F874, F877	309-1039-ND 309-1040-ND	115.00 135.00	PA44-40-P64-PD PA44-40-P64-PDZ
DIP to PLCC Prototyping Adapters				
Emulator Adapter, 40 Pin DIP ZIF Socket to 44 Pin PLCC Plug Emulator Adapter, 40 Pin DIP Socket to 44 Pin PLCC Plug	PIC16C64A, 65A(B), 67, 662, 74A(B), 774, 77, F874, F877	309-1031-ND 309-1032-ND	145.00 125.00	PA40-44-P64-DP PA40-44-P64-DP-PP
PLCC to PLCC Prototyping Adapter				
44 Pin PLCC Auto-eject Socket to 44 Pin PLCC Plug. 1:1 Pinout 44 Pin PLCC Lidded ZIF Socket to 44 Pin PLCC Plug. 1:1 Pinout	Z86C(E)21, 40, 43, 743, 44, 45, 46, 61	309-1041-ND 309-1042-ND	145.00 165.00	PA44-PP PA44-PZP
QFP to QFP Prototyping Adapters				
44 Pin TQFP Socket to 44 Pin Solder Down QFP Plug. 1:1 Pinout	N/A	309-1043-ND	360.00	PA44QF03-44QF
DIP to SO-Plug Prototyping Adapter Kits				
8 Pin .300" DIP Board. Two 8 Pin .250" SOIC Plugs	PIC12(L)C508A, 509A, DE518, CE519	309-1050-ND	20.90	PADSO-0803-D250-08/2
8 Pin .300" DIP Board. Two 8 Pin .310" SOIC Plugs	PIC12(L)C508A, 509A, CE518, CE519, 671, 672	309-1051-ND	20.90	PADSO-0803-D310-08/2
18 Pin .300" DIP Board with ZIF Socket. Two 18 Pin .420" SOIC Plugs	710-717, F83, F84(A), HV540; Z86C(E)(L)02, 03, 04, 06, 08, 16, 28; Z8E000, 001	309-1059-ND	50.90	PADSO1803Z-D420-18/2
28 Pin .300" DIP Board. Two 28 Pin .420" SOIC Plugs	PIC14000, PIC16C55(A), 57(C), 62A(B), 57(C), 62A(B), 63(A), 66,	309-1065-ND	36.90	PADSO-2803-D420-28/2
SOIC to SOIC Prototyping Adapters				
18 Pin SOIC .300" Socket to 18 Pin SOIC Connector	PIC16C52, 54(A)(C), 56(A), 58A(B), 61, 554, 558, 621, 620(A), CE623-CE625, 71, 710 -717, F83, F84(A), HV540; Z86C(E)(L)02, 03, 04, 06, 08, 16, 28; Z8E000, 001	309-1075-ND*	70.00	PA-SOD-2808-18
28 Pin SOIC .300" Socket to 28 Pin SOIC Connector	PIC14000, PIC16C55(A), 57(C), 62A(B), 63(A), 66, 72(A), 73A(B), 76, 642, 773, F872-F876; PIC18C242, 252, Z86C(E)(L)30, 31, 33, 34, 35, 36, 83, 84; Z86233, 733	309-1073-ND*	70.00	PA-SOD-2808-28

* Require SO-Plugs which must be ordered separately.

Description	Digi-Key Part No.	Price Each	Logical Systems Part No.
Additional DIP Boards			
28 Pin .300" DIP Board	309-1064-ND	24.00	PA-DSO-2803

Description	Digi-Key Part No.	Price Each	Logical Systems Part No.
Additional SO-Plugs			
18 Pin .420" Plugs (6 pieces)	309-1081-ND	29.70	PA-SOF-D420-18/6
28 Pin .420" Plugs (6 pieces)	309-1083-ND	38.70	PA-SOF-D420-28/6

NetBurner
Networking in 1 Day!

Network Development Kits and Modules

NetBurner SB72 is designed for applications that require a high performance/low cost 10/100 Ethernet interface to serial devices. The SB72 come preloaded with software to translate serial and Ethernet data, and is configurable through any web browser. The SB72 application code can be customized to any specific application requirements with a network development kit.

NetBurner MOD5272 and **MOD5282** core modules (with Coldfire Processor from Freescale) are devices containing everything needed for design engineers to add network control and to monitor a company's communications assets. The modules solve the problem of network-enabling devices with 10/100 Ethernet, including those requiring digital, analog and serial control.

Kit Includes: • Development board • Adapter board • CD-ROM with software (source code, development tools, manuals) • Straight through and crossover network cables • 12V power supply

Description	Digi-Key Part No.	Price Each	Netburner Part No.
Development Kit - Serial	528-1000-ND	149.00	NNDK-SB72-KIT
Development Kit - Network for MOD5272	528-1001-ND	299.00	NNDK-MOD5272-KIT
Development Kit - Network for MOD5282	528-1002-ND	299.00	NNDK-MOD5282-KIT
Serial - Ethernet Board	528-1003-ND	156.13	SB72-300CR
Processor Module 512Kb Flash MOD5282	528-1006-ND◆	145.00	MOD5282-100CR
Processor Module Flash MOD5272	528-1007-ND◆	189.83	MOD5272-100CR

◆ *RoHS Compliant*

nei
Needhams Electronics Inc

The Needhams line of programmers offers low-cost, high performance programming options for EPROMs, EEPROMs, Microcontrollers, PALs, Flash Memory and more. Each device comes with a free 1-year warranty and free software upgrades. File formats supported include: Binary, JEDEC, Intel Hex, Motorola S, Tek-Hex, and POF. Please see the matrix below for a programmer comparison.

Fig. 1

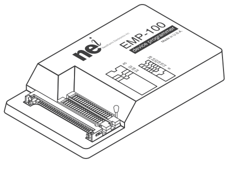

Fig. 2

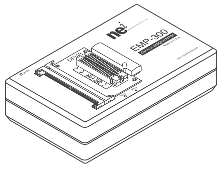

Fig. 3

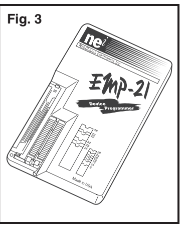

Programmers

Fig.	Description	Digi-Key Part No.	Price Each	Needhams Part No.
1	Device Programmer USB	EMP-100-ND	334.95	EMP-100
—	Device Programmer USB	EMP 21 110/220V-ND◆	669.95	EMP 21 110/V220V
2	Device Programmer USB	EMP-300 110V-ND	898.97	EMP-300 110V

◆ *RoHS Compliant*

Device Adapters

Fig.	Description	Digi-Key Part No.	Price Each	Needhams Part No.
3	32-PLCC Adapter for EMP-100/EMP-21 44-PSOP Adapter for EMP-100 44-PSOP Adapter for EMP-100 48-PSOP Adapter for EMP-100 52-PSOP Adapter for EMP-100	E1121-PLCC32-ND E11-PSOPA-29-ND E11-PSOPA-W-ND E11-TSOPA-48-ND E11-PSOPA-52-ND	105.00 90.00 90.00 125.00 90.00	E1121-PLCC32 E11-PSOPA-29 E11-PSOPA-W E11-TSOPA-48 E11-PSOPA-52
	Socket Module for EMP-300, 32-PLCC Socket Module for EMP-300, 44-PLCC Socket Module for EMP-300, 52-PLCC Socket Module for EMP-300, 48-TSOP	PLCC32-ND PLCC44-ND PLCC52-ND TSOP48-ND	105.00 110.00 125.00 125.00	PLCC32 PLCC44 PLCC52 TSOP48

EQUINOX TECHNOLOGIES
The Embedded Solutions Company

PPM3-MK2 Production ISP Programmers and Accessories

This high-end production programmer is designed for high-speed In-System Programming (ISP) of programmable devices which are mounted on a Target System. It connects to the Target System by an I/O Connector Module which is interchangeable allowing the programmer to support any target connection scheme.

Features:
- Fastest programming times possible due to on-board data, high-speed SPI and JTAG port
- Supports FLASH, EEPROM, FUSE bits, Security bits and RC Oscillator Calibration bytes
- 32Mbits of on-board non-volatile FLASH memory for user project storage (Standalone Mode)

Gang Programming Capability:
- Expandable from 1-16 programming channels
- Each channel can program a Target System independently of the other programmers (full asynchronous programming)
- An RS-485 Converter is required to implement multi-channel programming

Configured/Controlled by Equinox-EQTools Software:
- Equinox Development Suite (EDS)
- Project Builder: to create/edit programming projects
- Project Manager: to create and maintain project collections
- Project Upload/Download Utility: to upload projects to the programmer for use in Standalone Mode

Supports all standard ISP headers to connect to the Target System:
- Interchangeable "I/O Connector Modules" support all common ISP header formats:
- Atmel 10-way SPI Header (as per STK200/STK500)
- Atmel 6-way SPI Header
- Equinox 10-way SPI Header with support for Slave Select and SCK2
- Atmel 10-way JTAG Header (as per Atmel JTAG-ICE)
- Equinox 10-way UART Header for Atmel T89C51Rx2 (8051) and Philips P89C51 ISP FLASH Microcontrollers
- Fast Connect-clip-in wire connectors
- Wire-wrap connectors

PPM3-MK2 - CALCON Module:
- Plug-in I/O Connector Module for PPM3-MK2 programmer for calibration of Atmel ATmega AVR Microcontrollers

PPM3-MK2 - Production ISP Programming Module: The EQ-SFM-MAX-V1.3 is the latest "I/O Driver Module" for the PPM3-MK2 Programmer.
Features:
- High-speed I/O driver circuit which supports SPI frequencies up to 3.6864 MHz and JTAG frequencies up to 4MHz
- On-board 32.768 kHz precision oscillator which can be used for very accurate calibration (+/-1%) of an AVR Internal RC Oscillator.
- This module replaces the EQ-SFM-V1.2 Module and the CALCON module.

483-1002-ND	**PPM3-MK2**	Production ISP Programmer	**$1174.80**
483-1004-ND	**EQ-SFM-1**	Special Function Driver Module (replacement)	**$98.91**
483-1005-ND	**EQ-IOCON-3**	I/O Connector Module 3 for Atmel ATmega JTAG ISP	**$129.95**
483-1006-ND	**RS485-C1(US)**	RS232 to RS485 Serial Communications Converter	**$249.95**
483-1007-ND	**PPM3A1-UPG7**	Atmel ATmega AVR - JTAG ISP Upgrade License	**$775.50**
483-1010-ND	**PPM3A1-UPG5M**	Remote Application Control - Development Pack	**$1499.95**
483-1011-ND◆	**EQ-CALCON-1**	CALCON Module	**$299.95**
483-1013-ND◆	**EQ-SFM-MAX-V1.3**	***NEW!*** Production ISP Programming Module	**$299.95**

◆ ***RoHS Compliant***

Epsilon5 - Portable ISP Programmer

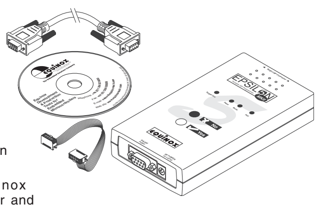

The Epsilon5 is a high-speed development/field/production programmer supporting many 8051 and Atmel AVR Microcontrollers. It can be operated under PC control during development and for project configuration/uploading. For field/production applications, the programmer is designed to work in "Standalone Mode" without a PC.

The programmer comes complete with Equinox Development Suite (EDS), Project Builder/Manager and Project Upload Utility. All common ISP Headers are catered for including 10-way Atmel/Equinox, 6-way Atmel and Atmel 10-way JTAG Header. The programmer supports LV + HV SPI and Boot Loader (UART) ISP as standard and can be upgraded to support Atmel ATmega JTAG ISP.

483-1000-ND	**EPSILON5-A1**		**$299.95**
483-1008-ND	**EPSILON5-UPG3**	Upgrade Epsilon5 JTAG ISP AVR MCU	**$199.95**

FS2003 - Portable High-Speed ISP Programmer for 8051 and AVR Microcontrollers

The FS2003 Programmer supports high-speed In-System Programming (ISP) of many 8051 and Atmel AVR Microcontrollers. It can be utilized in standard "Standalone Mode" without a PC, making it ideally suited for field-service and/or production ISP environments. The operator simply selects one of the 64 "Programming Projects" held locally on the programmer and then presses the "Auto-Program" key to program the target device. The FS2003 supports SPI and Boot loader UART ISP as standard and can be upgraded to support JTAG ISP.

Programming Modes: • Standalone Mode: Keypad + LCD (no PC) • Development Mode: Controlled via Equinox Development Suite (EDS) running on PC • Script Mode: Chargeable upgrade

In-System Programming Headers: • For SPI: Equinox 10-way, Atmel 10-way, Atmel 6-way IDC Headers • For UART: Equinox 10-way Header • For JTAG: Atmel 10-way IDC Header

483-1003-ND	**FS2003(US)**		**$599.95**
483-1009-ND	**FS2003-UPG7**	Upgrade FS2003 JTAG ISP	**$399.95**

RPM Systems Corporation

MPQ Series In-System Programmers for Manufacturing

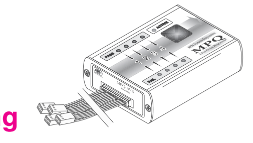

Features:
• Programs 4 devices simultaneously • Array MPQs to program up to 64 devices simultaneously • Stores up to 4 program images in internal Flash • Standalone, PC or ATE controlled • Supports target device voltages from 1.8V ~ 5.5V • Software upgradeable to support future devices • Built to survive in manufacturing • One year warranty

770-1000-ND	**MPQ-PSOC**	Four port, for CypressPSoC™	**$499.00**
770-1001-ND	**MPQ-E2**	Four port, for Cypress enCoRe™II	**$499.00**
770-1002-ND	**MPQ-Z8**	Four port, for ZiLOG Z8-Encore!™	**$499.00**
770-1003-ND	**MPQ-ZNEO**	Four port, for ZiLOG ZNeo™	**$499.00**
770-1004-ND	**MPQ-AVR(SPI)**	Four port, for Atmel AVR (SPI)	**$499.00**
770-1005-ND	**MPQ-AVR(JTAG)**	Four port, for Atmel AVR (JTAG)	**$499.00**
770-1007-ND	**MPQ-AVR**	Four port, for Atmel AVR (SPI and JTAG)	**$548.00**
770-1006-ND	**MPQ-C2**	Four port, for Silicon Labs C8051F Series	**$499.00**

XELTEK Universal Programmers

Xeltek Programmers currently support over 40,889 devices.

Features: • USB Connectivity • 48-pin ZIF Sockets • Low voltage support: Down to 1.5V for the latest generation devices and stand-alone modes on certain units • High Reliability with over current protection built in

Fig.	Description	Digi-Key Part No.	Price Each	Xeltek Part No.
	SUPERPRO® — Supports Over 44,000 Devices, RoHS Compliant			
1	Universal Programmer, 48-Pin Universal Programmer with 100-Pin Module	415-1030-ND 415-1007-ND	1195.00 1445.00	SUPERPRO3000U(ROHS) SUPERPRO3000U-100(ROHS)
—	Four Gang Superpro-3000U for Production	415-1008-ND	4780.01	SUPERPRO3000UCLUSTER(ROHS)
	SUPERPRO — Supports Over 38,000 Devices, RoHS Compliant			
2	Four Gang Universal Programmer	415-1009-ND	3695.01	SUPERPRO9000U(ROHS)
	SUPERPRO — Supports Over 32,000 Devices, RoHS Compliant			
3	Universal Programmer, 48-Pin	415-1031-ND	795.00	SUPERPRO580U(ROHS)
	SUPERPRO — Supports Over 22,000 Devices, RoHS Compliant			
3	Universal Programmer, 48-Pin	415-1032-ND	645.00	SUPERPRO280U(ROHS)
	SUPERPRO LX — Supports Over 3,904 Devices, RoHS Compliant			
—	Universal Programmer, 48-Pin	415-1010-ND	409.00	SUPERPROLX(ROHS)
	SUPERPRO Z — Supports Over 3,469 Devices			
3	Universal Programmer, 40-Pin	415-1000-ND	299.00	SUPERPROZ

Socket Adapters

RoHS COMPLIANT

Description	Digi-Key Part No.	Price Each	Xeltek Part No.
100-Pin Expander for 3000U only	415-1012-ND	295.00	PEP3000
PLCC32-DIP32	415-1013-ND	103.64	SA015A1T
PLCC20-DIP20	415-1014-ND	103.64	SA001A
PLCC28-DIP28	415-1015-ND	95.00	SA008A
PLCC44-DIP24	415-1017-ND	110.00	SA244
SOIC28-DIP28	415-1018-ND	95.00	SA404
SOIC16/8-DIP16	415-1019-ND	85.00	SA602

Description	Digi-Key Part No.	Price Each	Xeltek Part No.
SOIC20-DIP20	415-1020-ND	135.00	SA023A
QFP44-DIP44	415-1021-ND	225.00	SA245A
PSOP44-DIP44	415-1023-ND	201.82	SA638
TSOP40-DIP40	415-1024-ND	155.00	SA409T
SOIC20-DIP16	415-1025-ND	85.00	SA605
PLCC44-DIP44	415-1026-ND	195.00	SA411A
TSOP56-DIP48	415-1027-ND	225.00	SA628-B011
TQFP32-DIP32	415-1028-ND	185.00	SA636
SDIP42-DIP42	415-1029-ND	195.00	SA028

Fig. 1

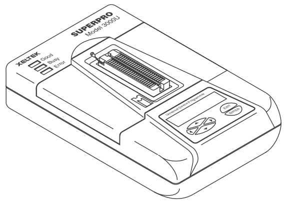

Fig. 2

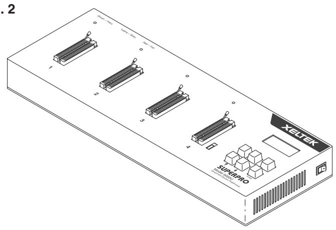

Fig. 3

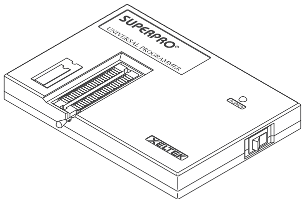

Xilinx FPGA Power Management Systems

Xilinx power supply requirements for the core, I/O, and auxiliary power supplies include voltage outputs ranging from 1.2V to 5V and current outputs from tens of milliamps to multiple amperes. Depending on the system requirements, a linear or a switching regulator may be used to supply power to the FPGA.

STMicroelectronics makes both linear and switching regulators with a wide variety of output voltages and output current levels.
When power sequencing is needed, the following circuit will control the power-up and power-down sequence of the $V_{cc_{core}}$ and the V_{cco} supply voltages.

Linear regulators are the best choice when board space is at a premium, low output noise is important or a fast response to inputs and transients is required. Linear regulators provide low to medium output currents (up to 3A) with a simple design approach.

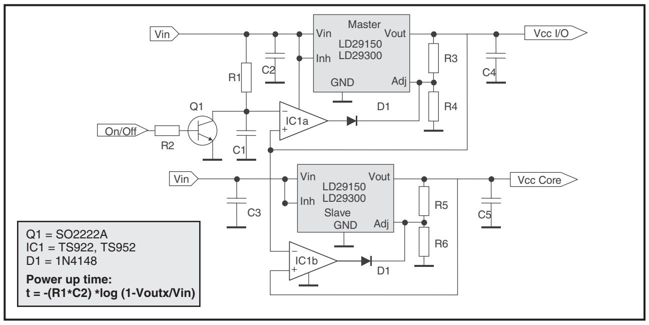

Linear Solution

The above solution implements a controlled slew rate on power up and power sequencing for the core and I/O voltages. Both outputs rise and fall with the same slew rate, set by R1 and C1. t=-(R1*C2) *Log (1 - Vccx/Vin)

Note: Vout Master must be higher than Vout Slave

Switching regulators are best used when design efficiency is critical and/or large output currents are required (such as Spartan-3™ and Virtex-II™). Switching supplies are known for excellent efficiency, but the output is more susceptible to noise due to the switching nature of the regulator.

Switching regulators require inductors and input and output capacitors for DC-DC conversion.

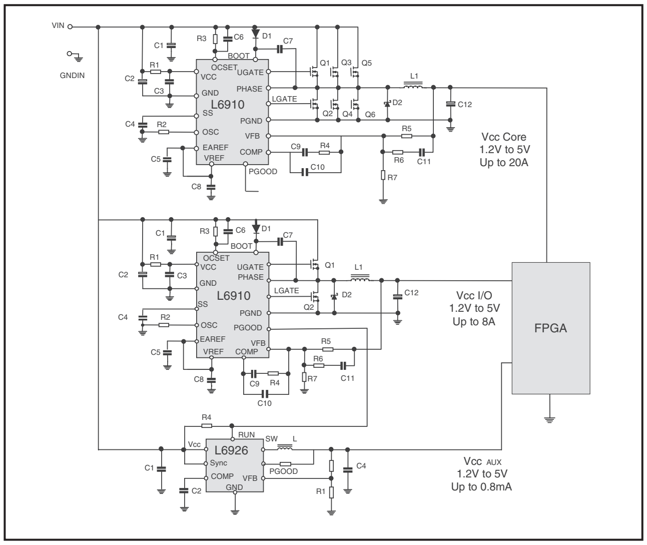

Switching Solution

The above solution provides a Core voltage range from 1.2V to 5V with a current up to 20A, an I/O voltage from 1.2V to 5V with a current capability up to 10A, and an auxiliary supply voltage from 1.2V to 5V up to 800mA.

STMicroelectronics Linear and Switching Voltage Regulators

Xilinx Part Number	LINEAR			SWITCHING		
Virtex-II™ Pro	**Vccint (1.5V)**	**Vccaux (2.5V)**	**Vcco★ (1.5V to 3.3V)**	**Vccint**	**Vccaux**	**Vcco★**
XC2VP2 to XC2VP30	KF15 or LD1117	L4931ABD25x	LD29300	L5970D	L6926D or L5970D	
XC2VP40 to XC2VP125	LD29150xx15	L4931ABD25x	LD29300	L5972D	L6926D or L5970D	
Virtex-II™	**Vccint (1.5V)**	**Vccaux (3.3V)**	**Vcco★ (1.5V to 3.3V)**	**Vccint**	**Vccaux**	**Vcco★**
XC2V40 to XC2V1000	L4931ABD15TR	LD2981Cxx33	L4931, LD29300	L4973 L6910	L6926D	L4973
XC2V1500 to XCE2V3000	KF15	LD2981Cxx33	L4931, LD29300	L4973 L6910	L6926D	L4973
XCE2V4000 to XCE2V8000	LD29150xx15	LD2981Cxx33	L4931, LD29300	L4973 L6910	L6926D	L4973
Virtex-EM™ and Virtex-E™	**Vccint (1.8V)**		**Vcco★ (1.2V to 3.3V)**	**Vccint**	**Vcco★**	
XCV50E (C) to XCV600E (C)	LF18Cxx		L4931	L5970D	L6926D or L5970D	
XCV812E (C) to XCV2000E (C)	LD1117Axx18		L4931	L5970D	L6926D or L5970D	
XCV2600E (C) to XCV3200E (C)	LD1086xx18		L4931	L5972D	L6926D or L5970D	
XCV50E (I) to XCV3200E (I)	LD1085xx18		L4931	L5973D	L6926D or L5970D	
Spartan-II™	**Vccint (2.5V)**		**Vcco★ (1.5V to 3.3V)**	**Vccint**	**Vcco★**	
XC2S15 to XC2S150 (0°C < Tj)	KF25xx		LFxx, KFxx	L5973D or L4973	L6926D	
XC2S15 to XC2S150 (Tj < 0°C)	LD1085xx25 / LD29300xx25		LFxx, KFxx	L5973D or L4973	L6926D	
Spartan-IIE™	**Vccint (1.8V)**		**Vcco★ (1.2V to 3.3V)**	**Vccint**	**Vcco★**	
XC2S50E (C) to XC2S600E (C)	LF18C, LD1086xx18, LD29150xx18		L4931	L5973D or L4973	L6926D or L5970D	
XC2S50E (I) to XC2S300E (I)	LF18C, LD1086xx18, LD29150xx18		L4931	L5973D or L4973	L6926D or L5970D	
XC2S400E (I) to XC2S600E (I)	LD1085xx18, LD29300xx18		L4931	L4973	L6926D or L5970D	
Spartan-3™	**Vccint (1.2V)**	**Vccaux (2.5V)**	**Vcco★ (1.2V to 3.3V)**	**Vccint**	**Vccaux**	**Vcco★**
XC3S50 to XC3S400	LD1117Axx12	KF25xx	LD29300	L4973	L6926D	L4973
XC3S1000 to XC3S2000	LD1117Axx12	KF25xx	LD29300	L4973, L6910	L6926D	L4973
XC3S4000 to XC3S5000	LD1117Axx12	KF25xx	LD29300	L4973, L6910	L6926D	L4973, L6910

★ The required I/O current will depend on several design specific factors, including I/O usage, loading, etc. Designers should use FPGA power estimator tools to determine the required Iccio current.

http://dkc3.digikey.com/PDF/Marketing/FPGA_Xilinx.pdf

XILINX® Spartan™ and Virtex™ Field Programmable Gate Arrays

Spartan-3 Family Features a broad range of densities, general functionality and targeted specific application solutions **Spartan-3:** • Highest density and pin count • Ideal for highly integrated data-processing applications **Spartan-3A:** • I/O optimized • Ideal for bridging, differential signaling and memory interfacing applications **Spartan-3A DSP:** • DSP Optimized • Ideal for applications where integrated DSP MACs and expanded memory are required **Spartan-3AN:** • Non-Volatile • Ideal for applications where non-volatile system integration, security or large user Flash is required **Spartan-3E:** • Logic optimized • Ideal for logic integration, DSP co-processing and embedded control **Spartan-XL:** • High performance FPGA **Spartan-II:** • 2.5V FPGA gives users abundant logic resources, and a rich feature set • System performance is supported up to 200MHz **Spartan-IIE:** • 1.8V FPGA is similar to the Spartan-II family but operates at a lower voltage

Virtex-5: • Industry's first 65nm FPGA offering choice of platforms, each delivering an optimized balance of high performance logic, serial connectivity, signal and embedded processing **Virtex-4** offers breakthrough capabilities at the lowest cost, with multiple platforms to choose from **Virtex-II Pro:** • incorporates embedded PowerPC™ processors and 3.125Gbps RocketIO serial transceivers **Virtex-II:** • High performance interfaces to external memory and clock management, as well as flexible logic resources **Virtex-E:** • Up to 30% faster • System performance up to 240MHz using single-ended SelectI/O+™ technology • Up to 640Kb of faster (250MHz) block SelectRAM+™ **Virtex:** • FPGAs are flexible alternatives to mask programmed gate arrays • System performance up to 200MHz - 66MHz PCI Compliant-Hot swappable for Compact PCI *All Virtex families are supported by FPGA Foundation™ and Alliance Development Systems*

Package	Gates	#CLB	I/O Pins	Operating Voltage (V)	Digi-Key Part No.	Price Each			Xilinx Part No.
						1	25	100	
Spartan-3 Series — RoHS Compliant									
100-VTQFP	50K	192	63	1.2	122-1504-ND	10.10	8.75	7.65	XC3S50-4VQG100C
256-FTBGA	200K	480	173	1.2	122-1338-ND	25.55	22.25	19.35	XC3S200-4FTG256C
208-PQFQ	200K	480	141	1.2	122-1339-ND	20.25	17.65	15.30	XC3S200-4PQG208C
144-TQFP	200K	480	97	1.2	122-1340-ND	15.10	13.15	11.40	XC3S200-4TQG144C
456-FBGA	400K	896	264	1.2	122-1341-ND	47.05	40.90	35.55	XC3S400-4FGG456C
256-FTBGA	400K	896	173	1.2	122-1342-ND	27.00	23.50	20.40	XC3S400-4FTG256C
208-PQFP	400K	896	141	1.2	122-1519-ND	25.45	22.15	19.26	XC3S400-4PQG208C
456-FBGA	1M	1920	333	1.2	122-1333-ND	62.10	54.00	46.95	XC3S1000-4FGG456C
676-FBGA	1M	1920	391	1.2	122-1334-ND	85.60	74.45	64.75	XC3S1000-4FGG676C
256-FTBGA	1M	1920	173	1.2	122-1335-ND	46.60	40.55	35.25	XC3S1000-4FTG256C
456-FBGA	1.5M	3328	333	1.2	122-1336-ND	78.00	67.80	58.95	XC3S1500-4FGG456C
Spartan-3A Series — RoHS Compliant									
144-TQFP	50K	176	108	1.2	122-1541-ND	10.02	—	—	XC3S50A-4TQG144C
256-FTBGA	50K	176	144	1.2	122-1542-ND	11.82	—	—	XC3S50A-4FTG256C
256-FTBGA	200K	448	195	1.2	122-1543-ND	18.06	—	—	XC3S200A-4FTG256C
320-FBGA	200K	448	248	1.2	122-1544-ND	21.24	—	—	XC3S200A-4FGG320C
256-FTBGA	400K	896	195	1.2	122-1545-ND	25.50	—	—	XC3S400A-4FTG256C
320-FBGA	400K	896	251	1.2	122-1546-ND	30.00	—	—	XC3S400A-4FGG320C
400-FBGA	400K	896	311	1.2	122-1547-ND	35.28	—	—	XC3S400A-4FGG400C
400-FBGA	700K	1472	311	1.2	122-1548-ND	40.92	—	—	XC3S700A-4FGG400C
484-FBGA	700K	1472	372	1.2	122-1549-ND	45.48	—	—	XC3S700A-4FGG484C
484-FBGA	1400K	2816	375	1.2	122-1550-ND	59.16	—	—	XC3S1400A-4FGG484C
676-FBGA	1400K	2816	502	1.2	122-1551-ND	68.22	—	—	XC3S1400A-4FGG676C
Spartan-3A DSP Series — RoHS Compliant									
484-CSBGA	1800K	4160	309	1.2	122-1537-ND	109.38	—	—	XC3SD1800A-4CSG484C
676-FBGA	1800K	4160	519	1.2	122-1538-ND	121.20	—	—	XC3SD1800A-4FGG676C
484-CSBGA	3400K	5968	309	1.2	122-1540-ND	150.00	—	—	XC3SD3400A-4CSG484C
676-FBGA	3400K	5968	469	1.2	122-1539-ND	166.80	—	—	XC3SD3400A-4FGG676C
Spartan-3AN Series — RoHS Compliant									
144-TQFP	50K	176	108	1.2	122-1555-ND	12.06	—	—	XC3S50AN-4TQG144C
256-FTBGA	200K	448	195	1.2	122-1553-ND	21.30	—	—	XC3S200AN-4FTG256C
256-FTBGA	200K	448	195	1.2	122-1569-ND ***NEW!***	24.48	—	—	XC3S200AN-4FTG256I
400-FBGA	400K	896	311	1.2	122-1554-ND	38.10	—	—	XC3S400AN-4FGG400C
484-FBGA	700K	1472	372	1.2	122-1556-ND	49.98	—	—	XC3S700AN-4FGG484C
676-FBGA	1400K	2816	502	1.2	122-1552-ND	75.06	—	—	XC3S1400AN-4FGG676C
Spartan-3E Series — RoHS Compliant									
132-CSP	100K	240	83	1.2	122-1515-ND	11.10	—	—	XC3S100E-4CPG132C
144-TQFP	100K	240	108	1.2	122-1478-ND	11.10	—	—	XC3S100E-4TQG144C
100-VTQFP	100K	240	66	1.2	122-1479-ND	9.48	—	—	XC3S100E-4VQG100C
132-CSP	250K	612	92	1.2	122-1518-ND	15.30	—	—	XC3S250E-4CPG132C
144-TQFP	250K	612	108	1.2	122-1524-ND	15.30	—	—	XC3S250E-4TQG144C
100-VQFP	250K	612	66	1.2	122-1525-ND	13.08	—	—	XC3S250E-4VQG100C
256-FTBG	250K	612	172	1.2	122-1482-ND	20.22	—	—	XC3S250E-4FTG256C
208-PQFP	250K	612	158	1.2	122-1483-ND	18.30	—	—	XC3S250E-4PQG208C
132-CSP	500K	1164	92	1.2	122-1484-ND	20.76	—	—	XC3S500E-4CPG132C
320-FBGA	500K	1164	232	1.2	122-1526-ND	31.56	—	—	XC3S500E-4FGG320C
256-FTBG	500K	1164	190	1.2	122-1485-ND	27.42	—	—	XC3S500E-4FTG256C
208-PQFP	500K	1164	158	1.2	122-1520-ND	24.90	—	—	XC3S500E-4PQG208C
320-FBGA	1200K	2168	250	1.2	122-1516-ND	43.74	—	—	XC3S1200E-4FGG320C
400-FBGA	1200K	2168	304	1.2	122-1480-ND	50.28	—	—	XC3S1200E-4FGG400C
256-FTBGA	1200K	2168	304	1.2	122-1529-ND	38.04	—	—	XC3S1200E-4FTG256C
320-FBGA	1600K	3688	250	1.2	122-1481-ND	60.96	—	—	XC3S1600E-4FGG320C
400-FBGA	1600K	3688	304	1.2	122-1517-ND	70.08	—	—	XC3S1600E-4FGG400C
Spartan-XL Series — RoHS Compliant									
100-VQFP	5K	100	77	3.3	122-1289-ND	8.90	7.55	6.50	XCS05XL-4VQG100C
144-TQFP	10K	196	112	3.3	122-1290-ND	19.55	16.55	14.30	XCS10XL-4TQG144C
100-VQFP	10K	196	112	3.3	122-1291-ND	15.85	13.40	11.60	XCS10XL-4VQG100C
208-PQFP	20K	400	160	3.3	122-1292-ND	26.65	22.55	19.46	XCS20XL-4PQG208C
144-TQFP	20K	400	160	3.3	122-1293-ND	22.95	19.40	16.80	XCS20XL-4TQG144C
144-TQFP	20K	400	160	3.3	122-1294-ND	27.55	23.30	20.15	XCS20XL-4TQG144I
100-VQFP	20K	400	160	3.3	122-1295-ND	19.30	16.30	14.10	XCS20XL-4VQG100C
208-PQFP	30K	576	192	3.3	122-1296-ND	29.90	25.30	21.85	XCS30XL-4PQG208C
144-TQFP	30K	576	192	3.3	122-1297-ND	27.65	23.40	20.20	XCS30XL-4TQG144C
144-TQFP	30K	576	192	3.3	122-1298-ND	33.15	28.05	24.25	XCS30XL-4TQG144I
100-VQFP	30K	576	192	3.3	122-1299-ND	25.10	21.25	18.35	XCS30XL-4VQG100C
208-PQFP	40K	784	169	3.3	122-1300-ND	34.60	29.25	25.26	XCS40XL-4PQG208C
208-PQFP	40K	784	169	3.3	122-1301-ND	41.55	35.15	30.35	XCS40XL-5PQG208C
Spartan-II Series									
144-TQFP	15K	96	86	2.5	122-1218-ND	8.15	—	—	XC2S15-5TQ144C
100-VQFP	15K	96	60	2.5	122-1309-ND◆	7.10	—	—	XC2S15-5VQG100C
144-TQFP	30K	216	92	2.5	122-1318-ND◆	11.55	—	—	XC2S30-5TQG144C
100-VQFP	30K	216	60	2.5	122-1513-5-ND◆	10.05	—	—	XC2S30-5VQG100C
256-FBGA	50K	384	176	2.5	122-1319-ND◆	16.65	—	—	XC2S50-5FGG256C
208-PQFP	50K	384	140	2.5	122-1320-ND◆	14.75	—	—	XC2S50-5PQG208C
144-TQFP	50K	384	92	2.5	122-1321-ND◆	12.85	—	—	XC2S50-5TQG144C
256-FBGA	100K	600	176	2.5	122-1303-ND◆	28.35	—	—	XC2S100-5FGG256I
456-FBGA	100K	600	196	2.5	122-1227-ND	41.31	—	—	XC2S100-5FG456C
208-PQFP	100K	600	140	2.5	122-1304-ND◆	19.55	—	—	XC2S100-5PQG208C
144-TQFP	100K	600	92	2.5	122-1305-ND◆	17.60	—	—	XC2S100-5TQG144C
256-FBGA	150K	864	176	2.5	122-1306-ND◆	27.00	—	—	XC2S150-5FGG256C
456-FBGA	150K	864	260	2.5	122-1231-ND	35.10	—	—	XC2S150-5FG456C
208-PQFP	150K	864	140	2.5	122-1308-ND◆	21.60	—	—	XC2S150-5PQG208C
256-FBGA	200K	1176	176	2.5	122-1310-ND◆	32.35	—	—	XC2S200-5FGG256C
456-FBGA	200K	1176	284	2.5	122-1312-ND◆	39.10	—	—	XC2S200-5FGG456C
456-FBGA	200K	1176	284	2.5	122-1313-ND◆	45.00	—	—	XC2S200-5FGG456I
208-PQFP	200K	1176	140	2.5	122-1314-ND◆	26.25	—	—	XC2S200-5PQG208C
208-PQFP	200K	1176	140	2.5	122-1315-ND◆	30.15	—	—	XC2S200-5PQG208I
456-FBGA	200K	1176	284	2.5	122-1316-ND◆	45.00	—	—	XC2S200-6FGG456C
208-PQFP	200K	1176	140	2.5	122-1317-ND◆	30.15	—	—	XC2S200-6PQC208C
Spartan-IIE Series — RoHS Compliant									
256-FBGA	50K	384	182	1.8	122-1328-ND	16.45	16.30	16.10	XC2S50E-6FTG256C
256-FBGA	50K	384	182	1.8	122-1329-ND	18.90	18.75	18.51	XC2S50E-6FTG256I
208-PQFP	50K	384	146	1.8	122-1330-ND	14.55	14.45	14.20	XC2S50E-6PQG208C

◆ ***RoHS Compliant***

(Continued)

XILINX® Spartan™ and Virtex™ Field Programmable Gate Arrays *(Cont.)*

Package	Gates	#CLB	I/O Pins	Operating Voltage (V)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Xilinx Part No.
144-TQFP	50K	384	102	1.8	122-1331-ND	12.65	12.55	12.35	XC2S50E-6TQG144C
256-FBGA	100K	600	182	1.8	122-1322-ND	24.20	24.00	23.70	XC2S100E-6FTG256C
144-TQFP	100K	600	102	1.8	122-1462-ND	17.30	17.15	16.90	XC2S100E-6TQG144C
456-FBGA	200K	1176	289	1.8	122-1323-ND	37.50	37.20	36.70	XC2S200E-6FGG456C
208-PQFP	200K	1176	146	1.8	122-1324-ND	25.20	25.00	24.65	XC2S200E-6PQG208C
256-FBGA	300K	1536	182	1.8	122-1325-ND	47.50	47.15	46.45	XC2S300E-6FTG256C
208-PQFP	300K	1536	146	1.8	122-1326-ND	38.60	38.35	37.76	XC2S300E-6PQG208C
456-FBGA	400K	2400	329	1.8	122-1327-ND	123.00	107.00	90.40	XC2S400E-4FGG456C
456-FBGA	600K	3456	329	1.8	122-1332-ND	170.00	147.00	125.01	XC2S600E-6FGG456C
Virtex-5 Series — RoHS Compliant									
324-FBGA	30K	2400	220	1.0	122-1558-ND	240.00	—	—	XC5VLX30-1FFG324C
676-FBGA	30K	2400	400	1.0	122-1559-ND	276.00	—	—	XC5VLX30-1FFG676C
665-FBGA	30K	2400	360	1.0	122-1560-ND	320.40	—	—	XC5VLX30T-1FFG665C
665-FBGA	35K	2720	360	1.0	122-1566-ND	440.40	—	—	XC5VSX35T-1FFG665C
324-FBGA	50K	3600	220	1.0	122-1562-ND	378.00	—	—	XC5VLX50-1FFG324C
676-FBGA	50K	3600	440	1.0	122-1563-ND	434.40	—	—	XC5VLX50-1FFG676C
665-FBGA	50K	3600	360	1.0	122-1565-ND	508.80	—	—	XC5VLX50T-1FFG665C
1136-FBGA	50K	3600	480	1.0	122-1564-ND	559.20	—	—	XC5VLX50T-1FFG1136C
1153-FBGA	50K	3600	560	1.0	122-1561-ND	499.20	—	—	XC5VLX50-1FFG1153C
665-FBGA	50K	4080	360	1.0	122-1568-ND	836.40	—	—	XC5VSX50T-1FFG665C
1136-FBGA	50K	4080	480	1.0	122-1567-ND	920.40	—	—	XC5VSX50T-1FFG1136C
1136-FBGA	85K	6480	480	1.0	122-1527-ND	903.60	—	—	XC5VLX85T-1FFG1136C
676-FBGA	110K	8640	440	1.0	122-1557-ND	1320.00	—	—	XC5VLX110-1FFG676C
Virtex-4 Series — RoHS Compliant									
363-FCBGA	24K	2688	240	1.2	122-1489-ND	211.20	—	—	XC4VLX25-10SFG363C
668-FBGA	24K	2688	448	1.2	122-1488-ND	253.20	—	—	XC4VLX25-10FFG668C
668-FBGA	24K	2688	448	1.2	122-1490-ND	316.80	—	—	XC4VLX25-11FFG668C
668-FBGA	35K	3840	448	1.2	122-1498-ND	448.80	—	—	XC4VSX35-10FFG668C
668-FBGA	35K	3840	448	1.2	122-1499-ND	560.40	—	—	XC4VSX35-11FFG668C
668-FBGA	40K	4806	448	1.2	122-1492-ND	399.60	—	—	XC4VLX40-10FFG668C
1148-FBGA	40K	4806	640	1.2	122-1491-ND	439.20	—	—	XC4VLX40-10FFG1148C
1148-FBGA	55K	6144	640	1.2	122-1500-ND	1123.20	—	—	XC4VSX55-10FFG1148C
668-FBGA	60K	6656	448	1.2	122-1494-ND	609.60	—	—	XC4VLX60-10FFG668C
668-FBGA	60K	6656	448	1.2	122-1496-ND	762.00	—	—	XC4VLX60-11FFG668C
1148-FBGA	60K	6656	640	1.2	122-1495-ND	838.80	—	—	XC4VLX60-11FFG1148C
1148-FBGA	60K	6656	640	1.2	122-1493-ND	670.80	—	—	XC4VLX60-10FFG1148C
1148-FBGA	80K	8960	768	1.2	122-1497-ND	1042.80	—	—	XC4VLX80-10FFG1148C
1148-FBGA	100K	12288	768	1.2	122-1486-ND	1905.60	—	—	XC4VLX100-10FFG1148C
1513-FBGA	100K	12288	960	1.2	122-1487-ND	2000.40	—	—	XC4VLX100-10FFG1513C
Virtex-II Pro Series — RoHS Compliant									
456-FBGA	6K	752	248	1.5	122-1451-ND	126.00	113.00	99.11	XC2VP4-5FGG456C
672-FCBGA	11K	1232	396	1.5	122-1370-ND	215.00	192.00	169.00	XC2VP7-5FFG672C
672-FBGA	11K	1232	396	1.5	122-1452-ND	301.00	269.00	237.01	XC2VP7-6FFG672C
676-FBGA	20K	2320	404	1.5	122-1361-ND	304.00	272.00	239.00	XC2VP20-5FGG676C
896-FCBGA	20K	2320	556	1.5	122-1362-ND	511.00	457.00	402.01	XC2VP20-6FFG896C
676-FBGA	30K	3424	416	1.5	122-1363-ND	516.00	462.00	405.00	XC2VP30-5FGG676C
896-FCBGA	30K	3424	556	1.5	122-1365-ND	867.00	775.01	681.00	XC2VP30-6FFG896C
1152-FCBGA	30K	3424	644	1.5	122-1364-ND	903.00	808.01	710.00	XC2VP30-6FFG1152C
1704-FCBGA	100K	11024	1040	1.5	122-1359-ND	7937.02	7101.01	6238.01	XC2VP100-6FFG1704C
Virtex-II Series — RoHS Compliant									
256-FBGA	250K	384	172	1.5	122-1352-ND	80.65	72.10	63.36	XC2V250-4FGG256C
256-FBGA	500K	768	172	1.5	122-1356-ND	136.00	122.00	107.01	XC2V500-4FGG256C
456-FBGA	500K	768	264	1.5	122-1357-ND	150.00	134.01	118.00	XC2V500-4FGG456C
575-BGA	1M	1280	328	1.5	122-1343-ND	227.00	204.00	178.00	XC2V1000-4BGG575C
896-FBGA	1M	1280	432	1.5	122-1344-ND	257.00	230.00	201.00	XC2V1000-4FFG896C
256-FBGA	1M	1280	172	1.5	122-1345-ND	198.00	177.00	155.01	XC2V1000-4FGG256C
456-FBGA	1M	1280	324	1.5	122-1346-ND	217.00	194.00	170.01	XC2V1000-4FGG456C
456-FBGA	1M	1280	324	1.5	122-1348-ND	304.00	272.00	238.00	XC2V1000-5FGG456C
676-FBGA	1.5M	1920	392	1.5	122-1349-ND	306.00	274.01	241.00	XC2V1500-4FGG676C
896-FCBGA	2M	2688	624	1.5	122-1350-ND	522.00	467.00	410.00	XC2V2000-4FFG896C
1152-FCBGA	3M	3584	720	1.5	122-1353-ND	803.00	718.00	631.01	XC2V3000-4FFG1152C
676-FBGA	3M	3584	484	1.5	122-1354-ND	669.00	598.01	526.01	XC2V3000-4FGG676C
676-FBGA	3M	3584	484	1.5	122-1355-ND	937.00	837.00	736.01	XC2V3000-5FGG676C
1152-FCBGA	6M	8448	824	1.5	122-1358-ND	2983.99	2669.01	2345.01	XC2V6000-4FFG1152C
Virtex-E Series									
240-PQFP	71K	384	158	1.8	122-1215-ND	52.05	47.10	40.90	XCV50E-7PQ240C
Virtex Series									
256-BGA	57K	384	180	2.5	122-1212-ND	66.45	59.50	51.40	XCV50-5BG256C
240-PQFP	57K	384	166	2.5	122-1213-ND	66.45	59.50	51.40	XCV50-5PQ240C
240-PQFP	108K	600	166	2.5	122-1214-ND	125.00	112.00	96.35	XCV100-5PQ240C

◆ ***RoHS Compliant***

Starter Kits and Evaluation Platforms

The **CoolRunner-II Starter Kit** Includes: • X-Board with XC2C256-TQ144 • Resource CD • USB 2.0 cable • ISE WebPACK™ CD • Three peripheral modules

The **CoolRunner-II Starter Kit Peripheral Module Bundle** contains the following modules: • PMod-AD1 • PMod-DA2 • PMod-HB3 • PMod-CON3 • PMod-AMP1 • PMod-SF • PMod-OC1 • PMod-RS232

The **CPLD Design Kit** with AA Battery Holder supports the CoolRunner-II and XC9500XL Device Families. **Kit Includes:** • Prototyping board • XC2C256-7TQ144 CoolRunner-II CPLD • XC9572XL-10VQ44 CPLD • JTAG Cable • ISE WebPACK™ CD • Programmable Logic Handbook • Resource CD

The **Spartan™-3 Starter Kit** brings high-volume designs to reality quicker, at a lower cost and on schedule. **Kit Includes:** • JTAG3 Programming Cable • Universal AC/DC Power Supply (100 ~ 220V, 50 ~ 60Hz) • Application Notes/Users's Guide • XC3S200 FT256 Xilinx Spartan-3 FPGA • XCF02S Xilinx Platform Flash

The **Spartan™-3A Starter Kit** is a complete development solution giving designers instant access to the capabilities of the Spartan-3A family. **Kit Includes:** • Development board • Power Supply (100 ~ 240V, 50 ~ 60Hz) with universal plug adaptors • Evaluation software: ISE™ WebPACK™ or ISE Foundation™ Evaluation • Quickstart Guide • Programming Cable • Product Collateral

The **Spartan™-3A DDR2 SDRAM Development Kit** Includes: • Spartan-3A development board • Universal Power supply with plug adapters • Evaluation software: ISE WebPACK™ or ISE Foundation™ ChipScope Pro • Quickstart guide • Programming cable

The **Spartan™-3AN Starter Kit** is non-volatile FPGA platform evaluation board includes 10/100 Ethernet/PHY, ADC/DAC circuitry, and connectivity options. **Kit Includes:** • Development board • Universal power supply with plug adapters • Evaluation software: ISE™ WebPACK™ or ISE Foundation™ • Quickstart guide • Programming cable

The **Spartan™-3E Starter Kit** is a complete development board solution giving designers instant access to the capabilities of the Spartan-3E family. **Kit Includes:** • Board • Power Supply • Evaluation Software • Resource CD

The **Spartan™-3 PCI Express Starter Kit** provides a PCI Express interface through a two-chip solution consisting of the Xilinx Spartan-3 FPGA and the Philips PX1011A-EL1 PCI Express PHY (PXX1011A)

The **Virtex-4™ Kit** is a feature rich evaluation platform which provides easy access to resources available on the Virtex-4 FPGA device. **Kit Includes:** • Evaluation platform including power supply • 32MB Compact-Flash card • Built-in demonstrations

The **Virtex™-5 Kit** is a feature-rich and low-cost evaluation/development platform which provides easy and practical access to resources available in the on-board Virtex-5 LX50 FPGA device. **Kit Includes:** • Xilinx Virtex-5 ML501 Evaluation platform • System ACE CompactFlash card • DVI to VGA adapter (Development tools and PC download cable are not included and must be ordered separately)

The **MultiPRO Desktop Tool** is a multi-function programming and configuration cable. Designed for use in a desktop environment, it interfaces to a PC using the industry standard IEEE 1284 parallel port. An external AC power brick provides +5V DC to the pod.

Description	Digi-Key Part No.	Price Each	Xilinx Part No.
CoolRunner-II Starter Kit	122-1533-ND◆	55.14	HW-CRII-SK-G
CoolRunner-II Starter Kit Bundle	122-1534-ND◆	109.32	HW-CRII-PM-ACC-G
CPLD Design Kit	122-1512-ND◆	55.20	DO-CPLD-DK-G
Spartan-3 Starter Kit	122-1521-ND◆	164.40	HW-SPAR3-SK-UNI-G
Spartan-3A Starter Kit	122-1514-ND◆	208.80	HW-SPAR3A-SK-UNI-G
Spartan-3A DDR2 Development Kit	122-1531-ND◆	225.00	HW-SPAR3ADDR2-DK-UNI-G-PROMO1
Spartan-3AN Starter Kit	122-1528-ND◆	228.75	HW-SPAR3AN-SK-UNI-G
Spartan-3E Starter Kit	122-1536-ND◆	164.40	HW-SPAR3E-SK-UNI-G
Spartan-3 PCI Express Starter Kit	122-1502-ND	385.20	HW-S3PCIE-DK
Virtex-4 ML401 Evaluation Platform	122-1523-ND	546.00	HW-V4-ML401-UNI-G
Virtex-5 Evaluation Platform Kit	122-1508-ND◆	1098.00	HW-V5-ML501-UNI-G
MultiPRO Desktop Tool	122-1503-ND	460.57	HW-MULTIPRO

◆ ***RoHS Compliant***

XILINX® Parallel Cable IV, Splitter, PC4 / Platform Cable USB, Flying Lead Connector

The **Parallel Cable IV** (PC4) is a high-speed download cable that configures or programs all Xilinx FPGA, CPLD, ISP PROM and System ACE MPM devices. **FEATURES:** • Download speed of up to 5 Megabits per second (Mb/s) • In-System Programs configures all Xilinx devices: Virtex™ / Virtex-E / Virtex-II / Virtex-II Pro™, Spartan / Spartan-XL / Spartan-II / Spartan-IIE / Spartan-3, XC9500™ / XC9500XL / XC9500XV, CoolRunner™ (XPLA3) / CoolRunner-II, XC18V00™ ISP PROM family, XC4000XL™ / XV / EX / E, System ACE™ Multi-Package Module (MPM), Platform Flash PROM family.

The **Ribbon Cable** incorporates multiple signal-ground pairs and facilitates error-free connection.

The **Splitter Cable** is installed between the mouse cable and the standard 6-pin mini-DIN connector on the host PC.

The **Platform Cable USB** is a high-performance download cable that configures or programs ISP PROM, CPLD and FPGA devices. A sustained Slave-serial FPGA configuration rate of 24Mb/s is possible in a high-speed USB environment. **FEATURES:** • Automatically senses and adapts to target I/O Voltage • Configures all Xilinx devices • LED status indicator

The **FPGA Flying Lead Connector** provides pins on your printed circuit board for your desired configuration mode.

Description	Digi-Key Part No.	Price Each	Xilinx Part No.
Parallel Cable for Xilinx Devices	122-1276-ND	138.00	HW-PC4
Ribbon Cable for Multipro or Cable IV	122-1476-ND	8.82	HW-RIBBON14
Splitter Cable for HW-PC4	122-1475-ND	12.12	HW-PC4-MS
FPGA Flying Lead Connector	122-1473-ND	16.56	HW-FLYLEADS
Board Adapter with Wire Leads	122-1530-ND◆	27.60	HW-USB-FLYLEADS-G
Platform Cable USB II	122-1572-ND◆ ***NEW!***	248.40	HW-USB-II-G

◆ ***RoHS Compliant***

In-System Programmable CPLDs (Complex Programmable Logic Devices)

The **XC9500 CPLD** family provides advanced in-system programming and test capabilities. All devices have a minimum of 10,000 program/erase cycles. Extensive IEEE 1149.1 (JTAG) boundary-scan support is also included on all family members. The XC9500 family is fully pin-compatible allowing easy design migration. Advanced system features include output slew rate control and user programmable ground pins to help reduce system noise. I/Os may be configured for 3.3V or 5V operation. All outputs provide 24mA drive.

The **FastFLASH XC9500XL** family is a 3.3V CPLD family targeted for high-performance, low-voltage applications.

The XC9500XL architectural features address the requirements of in-system programmability. Each user pin is compatible with 5V, 3.3V, and 2.5V inputs, and the outputs may be configured for 3.3V or 2.5V operation. The XC9500XL device exhibits symmetric full 3.3V output voltage swing.

The **CoolRunner™-II** device is a 3.3V CPLD targeted at power sensitive designs that require leading edge programmable logic solutions. CoolRunner CPLDs offer a TotalCMOS™ solution, both in process technology and design technique. Xilinx employs a cascade of CMOS gates to implement its sum of products instead of the traditional sense amp approach.

Package	Macro-cells	Usable Gates	Registers	System Frequency (MHz)	Pin to Pin Delay T_{PD} (ns)	I/O Pins	Digi-Key Part No.	Price Each			Xilinx Part No.
								1	25	100	
5 Volt											
44-VQFP	36	800	36	100 (Min.)	5	34	122-1254-ND	11.75	10.90	10.10	XC9536-5VQ44C
44-PLCC	36	800	36	83 (Min.)	7.5	34	122-1169-ND	5.15	4.80	4.45	XC9536-7PC44C
44-VQFP	36	800	36	83 (Min.)	7.5	34	122-1170-ND	5.15	4.80	4.45	XC9536-7VQ44C
44-PLCC	36	800	36	66 (Min.)	10	34	122-1431-ND◆	4.05	3.75	3.50	XC9536-10PCG44C
44-VQFP	36	800	36	66 (Min.)	10	34	122-1432-ND◆	4.05	3.75	3.50	XC9536-10VQG44C
44-PLCC	36	800	36	55 (Min.)	15	34	122-1433-ND◆	4.00	3.70	3.45	XC9536-15PCG44C
44-VQFP	36	800	36	55 (Min.)	15	34	122-1434-ND◆	4.00	3.70	3.45	XC9536-15VQG44C
44-VQFP	36	800	36	55 (Min.)	15	34	122-1394-ND◆	4.60	4.25	3.95	XC9536-15VQ44I
84-PLCC	72	1600	72	83 (Min.)	7.5	69	122-1262-ND	17.00	14.40	12.45	XC9572-7PC84C
100-PQFP	72	1600	72	83 (Min.)	7.5	72	122-1447-ND◆	29.40	24.85	21.50	XC9572-7PQG100C
44-PLCC	72	1600	72	66 (Min.)	10	34	122-1439-ND◆	7.50	6.35	5.45	XC9572-10PCG44C
84-PLCC	72	1600	72	66 (Min.)	10	69	122-1440-ND◆	10.50	8.85	7.65	XC9572-10PCG84C
100-TQFP	72	1600	72	66 (Min.)	10	72	122-1442-ND◆	18.15	15.35	13.25	XC9572-10TQG100C
44-PLCC	72	1600	72	55 (Min.)	15	34	122-1443-ND◆	5.25	4.45	3.85	XC9572-15PCG44C
84-PLCC	72	1600	72	55 (Min.)	15	69	122-1444-ND◆	7.35	6.20	5.35	XC9572-15PCG84C
100-PQFP	72	1600	72	55 (Min.)	15	72	122-1445-ND◆	12.70	10.75	9.25	XC9572-15PQG100C
100-TQFP	72	1600	72	55 (Min.)	15	72	122-1446-ND◆	12.70	10.75	9.25	XC9572-15TQG100C
100-TQFP	108	2400	108	83 (Min.)	7.5	81	122-1424-ND◆	43.95	37.15	32.11	XC95108-7TQG100C
84-PLCC	108	2400	108	66 (Min.)	10	69	122-1245-ND	24.50	20.75	17.91	XC95108-10PC84C
100-PQFP	108	2400	108	66 (Min.)	10	81	122-1461-ND◆	31.40	26.55	22.91	XC95108-10PQG100C
100-TQFP	108	2400	108	66 (Min.)	10	81	122-1421-ND◆	31.40	26.55	22.91	XC95108-10TQG100C
84-PLCC	108	2400	108	55 (Min.)	15	69	122-1460-ND◆	14.55	12.30	10.60	XC95108-15PCG84C
84-PLCC	108	2400	108	55 (Min.)	15	69	122-1246-ND	16.70	14.10	12.20	XC95108-15PC84I
100-TQFP	108	2400	108	55 (Min.)	15	81	122-1422-ND◆	18.60	15.70	13.55	XC95108-15TQG100C
100-TQFP	108	2400	108	50 (Min.)	20	81	122-1423-ND◆	16.90	14.30	12.35	XC95108-20TQG100C
100-PQFP	144	3200	144	66 (Min.)	10	81	122-1425-ND◆	34.50	29.20	25.21	XC95144-10PQG100C
100-PQFP	144	3200	144	55 (Min.)	15	81	122-1426-ND◆	20.55	17.35	15.00	XC95144-15PQG100C
100-TQFP	144	3200	144	55 (Min.)	15	81	122-1427-ND◆	20.55	17.35	15.00	XC95144-15TQG100C
3.3 Volt											
44-PLCC	36	800	36	178 (Max.)	5	34	122-1571-ND◆ ***NEW!***	1.44	—	—	XC9536XL-5PCG44C
44-VQFP	36	800	36	178 (Max.)	5	34	122-1465-ND◆	1.44	—	—	XC9536XL-5VQG44C
44-VQFP	36	800	36	125 (Max.)	7.5	34	122-1437-ND◆	1.14	—	—	XC9536XL-7VQG44C
44-PLCC	36	800	36	100 (Max.)	10	34	122-1570-ND◆ ***NEW!***	1.07	—	—	XC9536XL-10PCG44C
64-VQFP	36	800	36	100 (Max.)	10	36	122-1435-ND◆	1.20	—	—	XC9536XL-10VQG64C
44-PLCC	72	1600	72	178 (Max.)	5	34	122-1267-ND	3.66	—	—	XC9572XL-5PC44C
44-VQFP	72	1600	72	125 (Max.)	7.5	34	122-1449-ND◆	2.88	—	—	XC9572XL-7VQG44C
64-VQFP	72	1600	72	125 (Max.)	7.5	52	122-1450-ND◆	3.36	—	—	XC9572XL-7VQG64C
44-PLCC	72	1600	72	178 (Max.)	5	34	122-1466-ND◆	2.04	—	—	XC9572XL-10PCG44C
44-VQFP	72	1600	72	100 (Max.)	10	34	122-1448-ND◆	2.04	—	—	XC9572XL-10VQG44C
44-VQFP	64	1500	64	192 (Max.)	10	36	122-1468-ND◆	3.85	—	—	XCR3064XL-10VQG44C
44-VQFP	64	1500	64	192 (Max.)	10	36	122-1469-ND◆	4.80	—	—	XCR3064XL-10VQG44I
100-VQFP	64	1500	64	192 (Max.)	10	100	122-1470-ND◆	5.00	—	—	XCR3064XL-10VQG100C
100-VQFP	64	1500	64	95 (Max.)	10	68	122-1284-ND◆	6.20	—	—	XCR3064XL-10VQ100I
100-VQFP	128	3000	128	95 (Max.)	5.5	84	122-1282-ND	9.60	—	—	XCR3128XL-10VQ100C
144-TQFP	256	6000	256	88 (Max.)	7.0	120	122-1283-ND	16.45	—	—	XCR3256XL-12TQ144C
CoolRunner-II — RoHS Compliant											
56-BGA	32	750	32	323 (Max.)	3.8	33	122-1403-ND	1.60	1.50	1.40	XC2C32A-3CPG56C
32-QFN	32	750	32	323 (Max.)	3.8	21	122-1412-ND	1.15	1.10	1.00	XC2C32A-6QFG32C
44-VQFP	32	750	32	323 (Max.)	3.8	33	122-1404-ND	1.25	1.20	1.15	XC2C32A-6VQG44C
48-QFN	64	1500	64	263 (Max.)	4.6	37	122-1419-ND	3.50	3.35	3.20	XC2C64A-5QFG48C
44-VQFP	64	1500	64	263 (Max.)	4.6	33	122-1420-ND	3.40	3.25	3.10	XC2C64A-5VQG44C
56-BGA	64	1500	64	263 (Max.)	4.6	45	122-1408-ND	2.80	2.65	2.55	XC2C64A-7CPG56C
48-QFN	64	1500	64	263 (Max.)	4.6	37	122-1418-ND	2.50	2.40	2.30	XC2C64A-7QFG48C
44-VQFP	64	1500	64	263 (Max.)	4.6	33	122-1410-ND	2.45	2.35	2.20	XC2C64A-7VQG44C
100-VQFP	64	1500	64	263 (Max.)	4.6	64	122-1409-ND	3.05	2.90	2.75	XC2C64A-7VQG100C
132-BGA	128	3000	128	244 (Max.)	5.7	100	122-1396-ND	7.30	7.00	6.65	XC2C128-7CPG132C
144-TQFP	128	3000	128	244 (Max.)	5.7	100	122-1397-ND	6.95	6.65	6.30	XC2C128-7TQG144C
100-VQFP	128	3000	128	244 (Max.)	5.7	80	122-1285-ND	5.80	5.55	5.25	XC2C128-7VQG100C
132-BGA	256	6000	256	256 (Max.)	5.7	106	122-1399-ND	16.95	16.25	15.40	XC2C256-7CPG132C
256-FTBGA	256	6000	256	256 (Max.)	5.7	184	122-1400-ND	15.45	14.80	14.05	XC2C256-7FTG256C
208-PQFP	256	6000	256	256 (Max.)	5.7	173	122-1411-ND	14.10	13.50	12.80	XC2C256-7PQG208C
144-TQFP	256	6000	256	256 (Max.)	5.7	118	122-1401-ND	13.65	13.10	12.40	XC2C256-7TQG144C
100-VQFP	256	6000	256	256 (Max.)	5.7	80	122-1402-ND	12.35	11.85	11.25	XC2C256-7VQG100C
256-FTBGA	384	9000	384	217 (Max.)	7.1	212	122-1414-ND	48.05	46.10	43.70	XC2C384-7FTG256C
256-FBGA	384	9000	384	217 (Max.)	7.1	212	122-1405-ND	34.35	32.90	31.21	XC2C384-10FTG256C
208-PQFP	384	9000	384	217 (Max.)	7.1	173	122-1413-ND	31.85	30.50	28.96	XC2C384-10PQG208C
144-TQFP	384	9000	384	217 (Max.)	7.1	118	122-1406-ND	23.85	22.85	21.65	XC2C384-10TQG144C
256-FTBGA	512	12000	512	179 (Max.)	7.1	212	122-1417-ND	66.55	63.80	60.50	XC2C512-7FTG256C
324-FBGA	512	12000	512	179 (Max.)	7.1	270	122-1415-ND	52.90	50.70	48.10	XC2C512-10FGG324C
256-FBGA	512	12000	512	179 (Max.)	7.1	212	122-1407-ND	47.55	45.60	43.21	XC2C512-10FTG256C
208-PQFP	512	12000	512	179 (Max.)	7.1	173	122-1416-ND	44.10	42.25	40.06	XC2C512-10PQG208C

◆ ***RoHS Compliant***

XILINX® Programmable Gate Arrays

FPGA (Field Programmable Gate Arrays)

A Technical Overview:

Every Xilinx FPGA performs the function of a custom LSI circuit, like a gate array, but the Xilinx device is user-programmable and even reprogrammable in the system.

Xilinx sells standard off-the-shelf devices in many different sizes, speeds, operating temperature ranges and packages.

The user selects the appropriate Xilinx device and then converts the design idea or schematic into a configuration data file, using the Xilinx development system software, and loads this file into the Xilinx FPGA.

XC3000A

- Five device types (1300 ~ 7500 gates) • 4-input look-up tables • Flip-flop toggle rate over 110MHz • No on-chip RAM, data storage limited to flip-flops • Use for medium speed, medium complexity applications

XC3100A

- Functionally and bitstream identical with XC3000A series • Five device types (1300 ~ 7500 gates) • 4-input look-up tables • No on-chip RAM, data storage limited to flip-flops • Use for high performance design, system clock up to 100MHz

XC4000/XC4000A

- Benefits of custom CMOS VLSI • Gate ranges from 2,000 ~ 20,000 • Unlimited reprogrammability

XC4000E

- Ten device types (2,000 ~ 25,000 gates) • Dedicated carry network • Function generator can be used as RAM • Use for general purpose logic and data-path logic

XC4000L

- Low voltage version of XC4000E devices (3.0 ~ 3.6V)

XC4000XL

- Low voltage version of the XC4000EX devices (3.0 ~ 3.6V)

Package	Gates	#CLB	I/O Pins	Flip Flops	Operating Voltage (V)	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
XC3000A/XC3100A Series										
68-PLCC	2.0K	64	64	256	4.75 ~ 5.25	122-1009-ND	15.85	13.40	12.45	XC3020A-7PC68C
84-PLCC	3.0K	100	80	360	4.75 ~ 5.25	122-1018-ND	17.70	15.00	13.90	XC3030A-7PC84C
100-PQFP	3.0K	100	80	360	4.75 ~ 5.25	122-1019-ND	19.55	16.55	15.35	XC3030A-7PQ100C
84-PLCC	4.2K	144	96	480	4.75 ~ 5.25	122-1025-ND	23.05	19.50	18.10	XC3042A-7PC84C
100-PQFP	4.2K	144	96	480	4.75 ~ 5.25	122-1026-ND	25.35	21.45	19.90	XC3042A-7PQ100C
100-PQFP	3.0K	100	80	360	4.75 ~ 5.25	122-1041-ND	20.70	17.50	16.25	XC3130A-3PQ100C
84-PLCC	9.0K	320	144	928	4.75 ~ 5.25	122-1046-ND	53.25	47.65	44.26	XC3190A-3PC84C
XC4000/XC4000A Series										
84-PLCC	3.0K	100	61	360	4.75 ~ 5.25	122-1066-ND	55.60	51.30	47.60	XC4003-6PC84C
208-PQFP	8.0K	324	144	936	4.75 ~ 5.25	122-1070-ND	182.00	168.00	156.00	XC4008-5PQ208C
XC4000E Series										
84-PLCC	5.0K	196	61	616	4.75 ~ 5.25	122-1180-ND	34.65	31.95	29.71	XC4005E-4PC84C
160-PQFP	5.0K	196	112	616	4.75 ~ 5.25	122-1090-ND	66.70	61.50	57.11	XC4005E-3PQ160C
208-PQFP	6.0K	256	128	768	4.75 ~ 5.25	122-1094-ND	82.65	76.20	70.80	XC4006E-3PQ208C
208-PQFP	6.0K	256	128	768	4.75 ~ 5.25	122-1095-ND	63.60	58.65	54.45	XC4006E-4PQ208C
160-PQFP	10.0K	400	160	1120	4.75 ~ 5.25	122-1103-ND	131.00	121.00	112.00	XC4010E-3PQ160C
208-PQFP	10.0K	400	160	1120	4.75 ~ 5.25	122-1105-ND	211.00	194.00	181.01	XC4010E-2PQ208C
208-PQFP	10.0K	400	160	1120	4.75 ~ 5.25	122-1106-ND	156.00	144.01	134.01	XC4010E-3PQ208C
160-PQFP	13.0K	576	192	1536	4.75 ~ 5.25	122-1109-ND	132.00	122.00	113.01	XC4013E-4PQ160C
208-PQFP	13.0K	576	160	1536	4.75 ~ 5.25	122-1111-ND	290.00	268.00	248.01	XC4013E-2PQ208C
208-PQFP	13.0K	576	160	1536	4.75 ~ 5.25	122-1112-ND	215.00	198.00	184.01	XC4013E-3PQ208C
208-HQFP	20.0K	784	224	2016	4.75 ~ 5.25	122-1114-ND	311.00	286.00	266.01	XC4020E-2HQ208C
240-HQFP	20.0K	784	193	2016	4.75 ~ 5.25	122-1116-ND	533.00	492.00	457.00	XC4020E-2HQ240C
XC4000L Series										
84-PLCC	5.0K	196	61	616	3.0 ~ 3.6	122-1120-ND	29.50	27.40	25.45	XC4005L-5PC84C
100-PQFP	5.0K	196	81	616	3.0 ~ 3.6	122-1121-ND	45.75	42.15	39.15	XC4005L-5PQ100C
208-PQFP	5.0K	196	112	616	3.0 ~ 3.6	122-1122-ND	51.50	47.50	44.11	XC4005L-5PQ208C
84-PLCC	10.0K	400	61	1120	3.0 ~ 3.6	122-1123-ND	72.00	66.85	62.20	XC4010L-5PC84C
208-PQFP	13.0K	576	160	1536	3.0 ~ 3.6	122-1125-ND	169.00	157.00	146.00	XC4013L-5PQ208C
XC4000XL Series										
240-HQFP	36.0K	1296	193	3168	3.0 ~ 3.6	122-1129-ND	377.00	338.01	292.00	XC4036XL-1HQ240C
240-HQFP	36.0K	1296	193	3168	3.0 ~ 3.6	122-1130-ND	279.00	250.00	216.00	XC4036XL-2HQ240C

C

Serial Configuration Proms

Package	Memory Size	Voltage	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
8-Dip	330K	5	122-1275-ND	14.25	12.05	10.40	XC17S40PD8C
8-Dip	330K	3.3	122-1467-ND◆	8.75	7.40	6.40	XC17S40XLPDG8C
8-Dip	36K	5	122-1509-ND◆	4.15	3.50	3.05	XC1736EPDG8C
8-SOIC	36K	5	122-1510-ND◆	5.00	4.20	3.65	XC1736ESOG8C
8-SOIC	36K	5	122-1192-ND	5.00	4.20	3.65	XC1736EVO8C
8-Dip	65K	5	122-1188-ND	4.80	4.05	3.50	XC1765EPD8C
8-SOIC	65K	3	122-1194-ND	6.55	5.55	4.80	XC1765ELVO8C
8-Dip	128K	5	122-1191-ND	7.20	6.45	6.00	XC17128EPD8C
8-Dip	128K	3	122-1198-ND	6.40	5.75	5.35	XC17128ELPD8C
8-Dip	256K	5	122-1199-ND	13.75	12.30	11.40	XC17256EPD8C
8-SOIC	256K	5	122-1200-ND	16.30	14.65	13.55	XC17256EVO8C
8-SOIC	256K	3	122-1202-ND	10.25	9.50	8.85	XC17256ELVO8C
20-PLCC	1.0M	3.3	122-1463-ND◆	20.00	16.95	14.65	XC18V01PCG20C
20-SOIC	1.0M	3.3	122-1464-ND◆	20.00	16.95	14.65	XC18V01SOG20C
20-TSSOP	1.0M	3.3	122-1286-5-ND◆	3.15	3.10	3.00	XCF01SVOG20C
20-TSSOP	2.0M	3.3	122-1287-5-ND◆	4.25	4.15	4.05	XCF02SVOG20C
20-TSSOP	4.0M	3.3	122-1288-5-ND◆	6.95	6.80	6.60	XCF04SVOG20C
48-FBGA	8.0M	1.8	122-1453-ND◆	12.10	11.80	11.45	XCF08PFSG48C
48-TSOP	8.0M	1.8	122-1454-5-ND◆	12.10	11.80	11.45	XCF08PVOG48C
48-FBGA	16.0M	1.8	122-1455-ND◆	16.15	15.75	15.30	XCF16PFSG48C
48-TSOP	16.0M	1.8	122-1456-5-ND◆	16.15	15.75	15.30	XCF16PVOG48C
48-FBGA	32.0M	1.8	122-1457-ND◆	26.25	25.65	24.91	XCF32PFSG48C
48-TSOP	32.0M	1.8	122-1458-ND◆	26.25	25.65	24.91	XCF32PVOG48C

◆ ***RoHS Compliant***

ROMAN-JONES, INC. Xilinx Serial PROM Programmer

The Xilinx Serial PROM Programmer provides a low-cost alternative for programming any Xilinx XC17xx Family Serial PROM devices. The programmer product consists of an external programmer and associated interface software. The programmer and software have been tested and certified by Xilinx.

FEATURES:

- Parallel port interface which can be directly connected (if cable is desired - recommend M7PSG-2506J-ND)
- Coexists with printers using an A/B switchbox
- No special interface cards required
- Operates on 9 volt battery (not included, recommend P145-ND)
- Supports ALL Xilinx Serial PROMs
- Simple user interface. Easy-to-use software
- Supported under DOS 2.2 or greater, Windows 95/98 and Windows NT 4.0
- Supports both Intel Hex and Binary files generated by Xilinx compilers
- **Software not included. Requires downloading from www.roman-jones.com**
- **Free updates also available via FTP download**

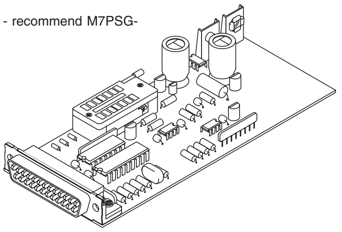

Description	Digi-Key Part No.	Price Each
Programmer		
SPROM Programmer with 8-Dip ZIF Socket	SPROM-TZS-ND	139.95
Adapters		
8-Pin Dip to 8-Pin SOIC/VOIC	SA1-ND	44.95
8-Pin Dip to 44-Pin VQFP	SA2-ND	95.95
8-Pin Dip to 20-Pin PLCC	SA3-ND	49.95
8-Pin Dip to 20-Pin SOIC	SA4-ND	54.95
8-Pin Dip to 44-Pin PLCC	SA5-ND	64.95

Order Nios II &
DSP Dev. Kits at
www.digikey.com

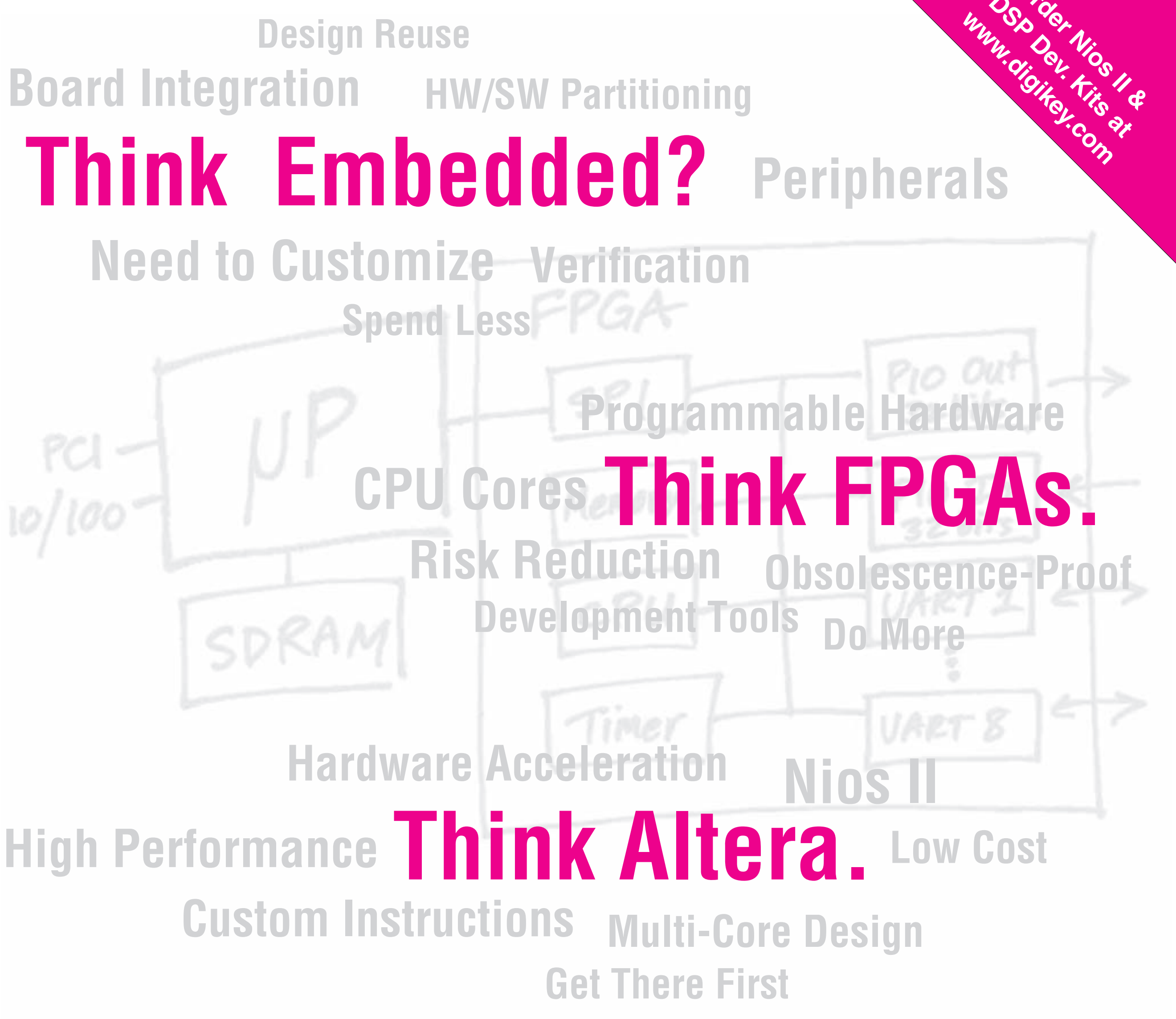

When it's time to design your next embedded system, think Altera. Use our FPGAs for coprocessing or peripheral expansion for your CPU. Or use our Nios® II soft-core processor to quickly create your own stand-alone custom microcontroller. Either way, Altera offers the flexibility to improve your team's productivity and time-to-market while lowering system cost and reducing the risk of obsolescence.

If you're thinking of your next embedded design, think FPGAs — think Altera.

- **World's top 20 electronic OEMs are already using Altera embedded solutions**
- **Over 15,000 Nios II licenses worldwide**
- **Support for industry-standard tools and operating systems**

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ALTERA®

FPGAs

ARRIA™: Combines protocol-optimized serial transceivers with reliable packaging technology and a proven logic array. These devices include 4 ~ 12 high-speed transceiver channels, each incorporating clock/data recovery (CDR) technology and embedded SERDES circuitry optimally designed to support PCI-Express, Gigabit Ethernet, and Serial RapidIO protocols. The transceivers have been optimized to simply and efficiently implement bridging and endpoint applications.
ACEX®: High-performance embedded RAM blocks that can implement dual-port RAM, ROM, FIFO or logic • 64-bit, 66MHz PCI support • PLLs for clock management • ClockBoost® feature to multiply the system clock inside the ACEX 1K device • MultiVolt™ I/O operation
APEX™: With devices ranging from 30,000 ~ 1.5 million system gates and clock rates up to 840MHz, Altera's APEX 20K FPGA family offers complete system-level integration on a single device, leading to extensive cost and performance advantages.
CYCLONE®/CYCLONE II: A low-cost alternative to ASICs. Cyclone provides a flexible, risk-free option without up-front non-recurring engineering charges. A low-cost solution unmatched by any other FPGA Cyclone II devices offer advanced features such as embedded 18 x 18 multipliers for high-performance (DSP) applications and support for memory interfaces such as DDR2 (up to 334 Mbps) and QDRII (up to 668 Mbps).
CYCLONE III: Delivers an unprecedented combination of low power, high functionality, and low cost. Cyclone III FBGAs also include a number of features and enhancements, intellectual property support, and other design resources to optimize them for use in specific application areas.
STRATIX®: The device family is based on a 1.5V, 0.13µm, all-layer-copper process • Up to 79,040 logic elements • 7Mbits of embedded memory, optimized (DSP) blocks, and high-performance I/O capabilities.
STRATIX II: Based on a 1.2V, 90nm, SRAM process, with densities from 15,600 ~ 179,400 logic elements. Up to 9Mbits of on-chip RAM. Up to 12 PLLs and 16 global clock networks. Up to 384 embedded multipliers in DSP blocks, source-synchronous differential signaling with dedicated (DPA) circuitry operating at up to 1.040 Gbps. • Dedicated serializer/deserializer (SERDES) circuitry to support the LVDS and HyperTransport™ differential I/O electrical standards, supports 10 Gigabit Ethernet XSBI, SFI-4, SPI-4.2, HyperTransport, RadioIO™ and UTOPIA IV standards.
STRATIX II GX: This family of devices is Altera's third generation of FPGAs to combine high-speed serial transceivers with a scalable, high-performance logic array. Statix II GX devices include 4 ~ 20 high-speed transceiver channels, each incorporating clock/data recovery unit (CRU) technology and embedded SERDES capability at data rates of up to 6.375 gigabits per second (Gbps). The transceivers are grouped into four-channel transceiver blocks, and are designed for low power consumption and small die size. The Stratix II GX FPGA technology is built upon the Stratix II architecture, and offers a 1.2V logic array. This makes Stratix II GX devices ideal for high-speed backplane interface, chip-to-chip, and communications protocol-bridging applications.
STRATIX III: This family includes the following two device variants: • Stratix III L devices focused on logic-rich applications • Stratix III E devices focused on digital signal processing (DSP)-rich and memory-rich applications. • The Stratix III offers vertical migrations, not only within, but across the L and E variants to offer the most flexibility in device selection. Altera has taken the industry leading architecture of the Stratix device series and refined it even further for a 65-nm process node. As a result, Statix FPGAs are the ideal solution for your next generation high-end designs.
FLEX® 6000: Programmable logic device family delivers the flexibility and time-to-market of programmable logic at prices that are competitive with gate arrays. Featuring the industry's most efficient architecture (OptiFLEX, FLEX 6000 devices provide a flexible and cost-effective alternative to ASICs for high-volume production.
FLEX 8000: Offers devices ranging from 2,500 ~ 16,000 gates with fast, predictable interconnect delays. The Flex 8000 family combines the high speed, predictable timing, and ease-of-use of EPLDs with the high register count, low standby power, and in-circuit reconfigurability of FPGAs.
FLEX 10K: Embedded programmable logic family delivers the flexibility of traditional programmable logic together with the efficiency and density of embedded gate arrays. Ranging from 10,000 ~ 250,000 typical gates, and up to 204MHz system speed. FLEX 10K devices are specifically designed to meet the demands of mid-density gate array designs.

Package	Gates	I/O Pins	Operating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
ARRIA — RoHS Compliant								
484-FBGA	20,000	230	1.2V	1,229,184	Fast	544-2395-ND	84.00	EP1AGX20CF484C6N
484-FBGA	20,000	230	1.2V	1,229,184	Fast	544-2399-ND	100.80	EP1AGX20CF484I6N
780-FBGA	20,000	341	1.2V	1,229,184	Fast	544-2373-ND	100.80	EP1AGX20CF780C6N
780-FBGA	20,000	341	1.2V	1,229,184	Fast	544-2381-ND	120.96	EP1AGX20CF780I6N
780-FBGA	35,000	341	1.2V	1,348,416	Fast	544-2382-ND	183.75	EP1AGX35CF780I6N
484-FBGA	35,000	230	1.2V	1,348,416	Fast	544-2396-ND	122.50	EP1AGX35CF484C6N
484-FBGA	35,000	230	1.2V	1,348,416	Fast	544-2400-ND	147.00	EP1AGX35CF484I6N
780-FBGA	35,000	341	1.2V	1,348,416	Fast	544-2374-ND	153.13	EP1AGX35DF780C6N
484-FBGA	50,000	229	1.2V	2,475,072	Fast	544-2397-ND	175.00	EP1AGX50CF484C6N
484-FBGA	50,000	229	1.2V	2,475,072	Fast	544-2401-ND	210.00	EP1AGX50CF484I6N
780-FBGA	50,000	350	1.2V	2,475,072	Fast	544-2375-ND	218.75	EP1AGX50DF780C6N
780-FBGA	50,000	350	1.2V	2,475,072	Fast	544-2383-ND	262.50	EP1AGX50DF780I6N
1152-FBGA	50,000	514	1.2V	2,475,072	Fast	544-2376-ND	273.44	EP1AGX50DF1152C6N
1152-FBGA	50,000	514	1.2V	2,475,072	Fast	544-2384-ND	328.13	EP1AGX50DF1152I6N
484-FBGA	60,000	229	1.2V	2,528,640	Fast	544-2398-ND	210.00	EP1AGX60CF484C6N
484-FBGA	60,000	229	1.2V	2,528,640	Fast	544-2402-ND	252.00	EP1AGX60CF484I6N
780-FBGA	60,000	350	1.2V	2,528,640	Fast	544-2377-ND	262.50	EP1AGX60DF780C6N
780-FBGA	60,000	350	1.2V	2,528,640	Fast	544-2385-ND	315.00	EP1AGX60DF780I6N
1152-FBGA	60,000	514	1.2V	2,528,640	Fast	544-2378-ND	328.13	EP1AGX60EF1152C6N
1152-FBGA	60,000	514	1.2V	2,528,640	Fast	544-2386-ND	393.75	EP1AGX60EF1152I6N
1152-FBGA	90,000	538	1.2V	4,477,824	Fast	544-2379-ND	409.50	EP1AGX90EF1152C6N
1152-FBGA	90,000	538	1.2V	4,477,824	Fast	544-2387-ND	491.40	EP1AGX90EF1152I6N
ACEX								
100-TQFP	10,000	66	2.5V	12,288	Slow	544-1027-ND	10.56	EP1K10TC100-3
100-TQFP	10,000	66	2.5V	12,288	Slow	544-1828-ND◆	10.56	EP1K10TC100-3N
100-TQFP	10,000	66	2.5V	12,288	Medium	544-2082-ND†	21.00	EP1K10TI100-2
100-TQFP	10,000	66	2.5V	12,288	Medium	544-2083-ND◆†	21.00	EP1K10TI100-2N
144-TQFP	10,000	92	2.5V	12,288	Medium	544-2081-ND	16.50	EP1K10TC144-2
144-TQFP	10,000	92	2.5V	12,288	Medium	544-1829-ND◆	16.50	EP1K10TC144-2N
144-TQFP	10,000	92	2.5V	12,288	Slow	544-1064-ND	12.30	EP1K10TC144-3
144-TQFP	10,000	92	2.5V	12,288	Slow	544-1830-ND◆	12.30	EP1K10TC144-3N
208-PQFP	10,000	120	2.5V	12,288	Slow	544-1090-ND	13.80	EP1K10QC208-3
208-PQFP	10,000	120	2.5V	12,288	Slow	544-1827-ND◆	13.80	EP1K10QC208-3N
256-FBGA	10,000	136	2.5V	12,288	Slow	544-1026-ND	15.60	EP1K10FC256-3
144-TQFP	30,000	102	2.5V	24,576	Fast	544-1065-ND	34.80	EP1K30TC144-1
144-TQFP	30,000	102	2.5V	24,576	Fast	544-1837-ND◆	34.80	EP1K30TC144-1N
144-TQFP	30,000	102	2.5V	24,576	Medium	544-1066-ND	23.70	EP1K30TC144-2
144-TQFP	30,000	102	2.5V	24,576	Medium	544-1838-ND◆	23.70	EP1K30TC144-2N
144-TQFP	30,000	102	2.5V	24,576	Slow	544-1067-ND	17.40	EP1K30TC144-3
144-TQFP	30,000	102	2.5V	24,576	Slow	544-1839-ND◆	17.40	EP1K30TC144-3N
144-TQFP	30,000	102	2.5V	24,576	Medium	544-1068-ND†	34.80	EP1K30TI144-2
144-TQFP	30,000	102	2.5V	24,576	Medium	544-1840-ND◆†	34.80	EP1K30TI144-2N
208-PQFP	30,000	147	2.5V	24,576	Fast	544-1004-ND	40.20	EP1K30QC208-1
208-PQFP	30,000	147	2.5V	24,576	Fast	544-1834-ND◆	40.20	EP1K30QC208-1N
208-PQFP	30,000	147	2.5V	24,576	Medium	544-1005-ND	27.00	EP1K30QC208-2
208-PQFP	30,000	147	2.5V	24,576	Medium	544-1835-ND◆	27.00	EP1K30QC208-2N
208-PQFP	30,000	147	2.5V	24,576	Slow	544-1006-ND	20.10	EP1K30QC208-3
208-PQFP	30,000	147	2.5V	24,576	Slow	544-1836-ND◆	20.10	EP1K30QC208-3N
256-FBGA	30,000	171	2.5V	24,576	Fast	544-1028-ND	45.60	EP1K30FC256-1
256-FBGA	30,000	171	2.5V	24,576	Medium	544-1831-ND	30.60	EP1K30FC256-2
256-FBGA	30,000	171	2.5V	24,576	Slow	544-1029-ND	22.80	EP1K30FC256-3
256-FBGA	30,000	171	2.5V	24,576	Slow	544-1832-ND◆	22.80	EP1K30FC256-3N
256-FBGA	30,000	171	2.5V	24,576	Medium	544-1833-ND†	45.60	EP1K30FI256-2
144-TQFP	50,000	102	2.5V	40,960	Fast	544-1072-ND	49.20	EP1K50TC144-1
144-TQFP	50,000	102	2.5V	40,960	Medium	544-1073-ND	33.00	EP1K50TC144-2
144-TQFP	50,000	102	2.5V	40,960	Medium	544-1848-ND◆	33.00	EP1K50TC144-2N
144-TQFP	50,000	102	2.5V	40,960	Slow	544-1074-ND	24.60	EP1K50TC144-3
144-TQFP	50,000	102	2.5V	40,960	Slow	544-1849-ND◆	24.60	EP1K50TC144-3N
144-TQFP	50,000	102	2.5V	40,960	Medium	544-1075-ND†	49.20	EP1K50TI144-2
144-TQFP	50,000	102	2.5V	40,960	Medium	544-1850-ND◆†	49.20	EP1K50TI144-2N
208-PQFP	50,000	147	2.5V	40,960	Fast	544-1007-ND	54.00	EP1K50QC208-1
208-PQFP	50,000	147	2.5V	40,960	Fast	544-1843-ND◆	54.00	EP1K50QC208-1N
208-PQFP	50,000	147	2.5V	40,960	Medium	544-1008-ND	36.60	EP1K50QC208-2
208-PQFP	50,000	147	2.5V	40,960	Medium	544-1844-ND◆	36.60	EP1K50QC208-2N
208-PQFP	50,000	147	2.5V	40,960	Slow	544-1009-ND	27.00	EP1K50QC208-3
208-PQFP	50,000	147	2.5V	40,960	Slow	544-1845-ND◆	27.00	EP1K50QC208-3N
208-PQFP	50,000	147	2.5V	40,960	Medium	544-1010-ND†	54.00	EP1K50QI208-2
208-PQFP	50,000	147	2.5V	40,960	Medium	544-1846-ND◆†	54.00	EP1K50QI208-2N
256-FBGA	50,000	186	2.5V	40,960	Fast	544-1030-ND	68.40	EP1K50FC256-1
256-FBGA	50,000	186	2.5V	40,960	Medium	544-1031-ND	46.20	EP1K50FC256-2
256-FBGA	50,000	186	2.5V	40,960	Medium	544-1841-ND◆	46.20	EP1K50FC256-2N
256-FBGA	50,000	186	2.5V	40,960	Slow	544-1032-ND	34.20	EP1K50FC256-3
256-FBGA	50,000	186	2.5V	40,960	Slow	544-1842-ND◆	34.20	EP1K50FC256-3N
256-FBGA	50,000	186	2.5V	40,960	Medium	544-1033-ND†	68.40	EP1K50FI256-2
484-FBGA	50,000	249	2.5V	40,960	Fast	544-1069-ND	86.40	EP1K50FC484-1
484-FBGA	50,000	249	2.5V	40,960	Medium	544-1070-ND	58.80	EP1K50FC484-2
484-FBGA	50,000	249	2.5V	40,960	Slow	544-1071-ND	42.00	EP1K50FC484-3
208-PQFP	100,000	147	2.5V	49,152	Fast	544-1000-ND	75.60	EP1K100QC208-1
208-PQFP	100,000	147	2.5V	49,152	Fast	544-1823-ND◆	75.60	EP1K100QC208-1N
208-PQFP	100,000	147	2.5V	49,152	Medium	544-1001-ND	51.60	EP1K100QC208-2
208-PQFP	100,000	147	2.5V	49,152	Medium	544-1824-ND◆	51.60	EP1K100QC208-2N
208-PQFP	100,000	147	2.5V	49,152	Slow	544-1002-ND	37.80	EP1K100QC208-3
208-PQFP	100,000	147	2.5V	49,152	Slow	544-1825-ND◆	37.80	EP1K100QC208-3N
208-PQFP	100,000	147	2.5V	49,152	Medium	544-1003-ND†	72.00	EP1K100QI208-2
208-PQFP	100,000	147	2.5V	49,152	Medium	544-1826-ND◆†	72.00	EP1K100QI208-2N
256-FBGA	100,000	186	2.5V	49,152	Fast	544-1022-ND	94.80	EP1K100FC256-1
256-FBGA	100,000	186	2.5V	49,152	Fast	544-1819-ND◆	94.80	EP1K100FC256-1N
256-FBGA	100,000	186	2.5V	49,152	Medium	544-1023-ND	63.60	EP1K100FC256-2
256-FBGA	100,000	186	2.5V	49,152	Medium	544-1820-ND◆	63.60	EP1K100FC256-2N
256-FBGA	100,000	186	2.5V	49,152	Slow	544-1024-ND	47.40	EP1K100FC256-3
256-FBGA	100,000	186	2.5V	49,152	Slow	544-1821-ND◆	47.40	EP1K100FC256-3N
256-FBGA	100,000	186	2.5V	49,152	Medium	544-1025-ND†	94.80	EP1K100FI256-2
484-FBGA	100,000	333	2.5V	49,152	Fast	544-1060-ND	123.60	EP1K100FC484-1
484-FBGA	100,000	333	2.5V	49,152	Medium	544-1061-ND	82.80	EP1K100FC484-2
484-FBGA	100,000	333	2.5V	49,152	Medium	544-1822-ND◆	82.80	EP1K100FC484-2N
484-FBGA	100,000	333	2.5V	49,152	Slow	544-1062-ND	62.40	EP1K100FC484-3
484-FBGA	100,000	333	2.5V	49,152	Medium	544-1063-ND†	116.40	EP1K100FI484-2
APEX								
144-TQFP	30,000	92	1.8V	24,576	Slow	544-1865-ND	33.60	EP20K30ETC144-3
356-BGA	100,000	246	1.8V	53,248	Slow	544-1091-ND	108.00	EP20K100EBC356-3
324-FBGA	100,000	246	1.8V	53,248	Fast	544-2090-ND	196.80	EP20K100EFC324-1
324-FBGA	100,000	246	1.8V	53,248	Slow	544-1092-ND	98.40	EP20K100EFC324-3
208-PQFP	100,000	246	1.8V	53,248	Slow	544-2092-ND	84.00	EP20K100EQC208-3
240-PQFP	100,000	183	1.8V	53,248	Fast	544-1863-ND	172.80	EP20K100EQC240-1
240-PQFP	100,000	183	1.8V	53,248	Medium	544-1864-ND	121.20	EP20K100EQC240-2
240-PQFP	100,000	183	1.8V	53,248	Slow	544-1093-ND	86.40	EP20K100EQC240-3
240-PQFP	100,000	189	2.5V	53,248	Slow	544-1094-ND	86.40	EP20K100QC240-3
324-FBGA	100,000	246	1.8V	53,248	Medium	544-2091-ND†	208.80	EP20K100EFI324-2X
240-PQFP	200,000	168	1.8V	106,496	Slow	544-1095-ND	216.00	EP20K200EQC240-3
484-FBGA	200,000	376	1.8V	106,496	Fast	544-1096-ND	470.40	EP20K200EFC484-1
484-FBGA	200,000	376	1.8V	106,496	Fast	544-1097-ND	482.40	EP20K200EFC484-1X
484-FBGA	200,000	376	1.8V	106,496	Medium	544-1098-ND	340.80	EP20K200EFC484-2X
484-FBGA	200,000	376	1.8V	106,496	Slow	544-1099-ND	235.20	EP20K200EFC484-3
484-FBGA	200,000	376	1.8V	106,496	Medium	544-2093-ND†	482.40	EP20K200EFI484-2X
652-BGA	400,000	488	1.8V	212,992	Fast	544-2094-ND	972.00	EP20K400EBC652-1X
652-BGA	400,000	488	1.8V	212,992	Slow	544-1135-ND	468.00	EP20K400EBC652-3
672-FBGA	400,000	488	1.8V	212,992	Fast	544-1102-ND	1392.00	EP20K400EFC672-1X
672-FBGA	400,000	488	1.8V	212,992	Medium	544-2095-ND	984.00	EP20K400EFC672-2X
672-FBGA	400,000	488	1.8V	212,992	Slow	544-1103-ND	456.00	EP20K400EFC672-3
672-FBGA	600,000	488	1.8V	311,296	Fast	544-2096-ND	1884.00	EP20K600EFC672-1X
CYCLONE								
100-TQFP	2,910	65	1.5V	59,904	Fast	544-1014-ND	17.60	EP1C3T100C6
100-TQFP	2,910	65	1.5V	59,904	Fast	544-1799-ND◆	16.00	EP1C3T100C6N
100-TQFP	2,910	65	1.5V	59,904	Medium	544-1015-ND	14.08	EP1C3T100C7
100-TQFP	2,910	65	1.5V	59,904	Medium	544-1800-ND◆	12.80	EP1C3T100C7N
100-TQFP	2,910	65	1.5V	59,904	Slow	544-1016-ND	11.77	EP1C3T100C8
100-TQFP	2,910	65	1.5V	59,904	Slow	544-1664-ND◆	10.70	EP1C3T100C8N
100-TQFP	2,910	65	1.5V	59,904	Medium	544-1017-ND†	17.60	EP1C3T100I7
100-TQFP	2,910	65	1.5V	59,904	Medium	544-1663-ND◆†	16.00	EP1C3T100I7N
144-TQFP	2,910	104	1.5V	59,904	Fast	544-1050-ND	20.24	EP1C3T144C6
144-TQFP	2,910	104	1.5V	59,904	Fast	544-1662-ND◆	18.40	EP1C3T144C6N
144-TQFP	2,910	104	1.5V	59,904	Medium	544-1051-ND	16.17	EP1C3T144C7
144-TQFP	2,910	401	1.5V	59,904	Medium	544-1661-ND◆	14.70	EP1C3T144C7N
144-TQFP	2,910	104	1.5V	59,904	Slow	544-1052-ND	13.53	EP1C3T144C8
144-TQFP	2,910	104	1.5V	59,904	Slow	544-1801-ND◆	12.30	EP1C3T144C8N
144-TQFP	2,910	104	1.5V	59,904	Medium	544-1053-ND†	20.24	EP1C3T144I7
144-TQFP	2,910	104	1.5V	59,904	Medium	544-1802-ND◆†	18.40	EP1C3T144I7N
324-FBGA	4,000	249	1.5V	78,336	Fast	544-1042-ND	31.68	EP1C4F324C6
324-FBGA	4,000	249	1.5V	78,336	Fast	544-1803-ND◆	28.80	EP1C4F324C6N
324-FBGA	4,000	249	1.5V	78,336	Medium	544-1043-ND	25.41	EP1C4F324C7
324-FBGA	4,000	249	1.5V	78,336	Slow	544-1044-ND	21.12	EP1C4F324C8
324-FBGA	4,000	249	1.5V	78,336	Slow	544-1804-ND◆	19.20	EP1C4F324C8N
324-FBGA	4,000	249	1.5V	78,336	Medium	544-1045-ND†	31.68	EP1C4F324I7
400-FBGA	4,000	301	1.5V	78,336	Fast	544-1054-ND	38.17	EP1C4F400C6
400-FBGA	4,000	301	1.5V	78,336	Fast	544-1805-ND◆	34.70	EP1C4F400C6N
400-FBGA	4,000	301	1.5V	78,336	Medium	544-2079-ND	30.47	EP1C4F400C7
400-FBGA	4,000	301	1.5V	78,336	Slow	544-1055-ND	25.41	EP1C4F400C8
400-FBGA	4,000	301	1.5V	78,336	Slow	544-1806-ND◆	23.10	EP1C4F400C8N
400-FBGA	4,000	301	1.5V	78,336	Medium	544-2080-ND†	38.17	EP1C4F400I7
144-TQFP	5,980	98	1.5V	92,160	Fast	544-1056-ND	28.93	EP1C6T144C6
144-TQFP	5,980	98	1.5V	92,160	Fast	544-1815-ND◆	26.30	EP1C6T144C6N
144-TQFP	5,980	98	1.5V	92,160	Medium	544-1057-ND	22.99	EP1C6T144C7
144-TQFP	5,980	98	1.5V	92,160	Medium	544-1816-ND◆	20.90	EP1C6T144C7N
144-TQFP	5,980	98	1.5V	92,160	Slow	544-1058-ND	19.25	EP1C6T144C8
144-TQFP	5,980	98	1.5V	92,160	Slow	544-1817-ND◆	17.50	EP1C6T144C8N
144-TQFP	5,980	98	1.5V	92,160	Medium	544-1059-ND†	28.93	EP1C6T144I7
144-TQFP	5,980	98	1.5V	92,160	Medium	544-1818-ND◆†	26.30	EP1C6T144I7N
240-PQFP	5,980	185	1.5V	92,160	Fast	544-1083-ND	31.24	EP1C6Q240C6
240-PQFP	5,980	185	1.5V	92,160	Fast	544-1811-ND◆	28.40	EP1C6Q240C6N
240-PQFP	5,980	185	1.5V	92,160	Medium	544-1084-ND	24.97	EP1C6Q240C7
240-PQFP	5,980	185	1.5V	92,160	Medium	544-1812-ND◆	22.70	EP1C6Q240C7N
240-PQFP	5,980	185	1.5V	92,160	Slow	544-1085-ND	20.79	EP1C6Q240C8
240-PQFP	5,980	185	1.5V	92,160	Slow	544-1813-ND◆	18.90	EP1C6Q240C8N
240-PQFP	5,980	185	1.5V	92,160	Medium	544-1086-ND†	31.24	EP1C6Q240I7
240-PQFP	5,980	185	1.5V	92,160	Medium	544-1814-ND◆†	28.40	EP1C6Q240I7N
256-FBGA	5,980	185	1.5V	92,160	Fast	544-1018-ND	35.64	EP1C6F256C6
256-FBGA	5,980	185	1.5V	92,160	Fast	544-1807-ND◆	32.40	EP1C6F256C6N

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C ◊ Tube ▲ ***NEW!*** *(Continued)*

Package	Gates	I/O Pins	Operating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
256-FBGA	5,980	185	1.5V	92,160	Medium	544-1019-ND	28.49	EP1C6F256C7
256-FBGA	5,980	185	1.5V	92,160	Medium	544-1808-ND◆	25.90	EP1C6F256C7N
256-FBGA	5,980	185	1.5V	92,160	Slow	544-1020-ND	23.76	EP1C6F256C8
256-FBGA	5,980	185	1.5V	92,160	Slow	544-1809-ND◆	21.60	EP1C6F256C8N
256-FBGA	5,980	185	1.5V	92,160	Medium	544-1021-ND†	35.64	EP1C6F256I7
256-FBGA	5,980	185	1.5V	92,160	Medium	544-1810-ND◆†	32.40	EP1C6F256I7N
240-PQFP	12,060	173	1.5V	239,616	Fast	544-1079-ND	58.52	EP1C12Q240C6
240-PQFP	12,060	173	1.5V	239,616	Fast	544-1793-ND◆	53.20	EP1C12Q240C6N
240-PQFP	12,060	173	1.5V	239,616	Medium	544-1080-ND	46.75	EP1C12Q240C7
240-PQFP	12,060	173	1.5V	239,616	Medium	544-1794-ND◆	42.50	EP1C12Q240C7N
240-PQFP	12,060	173	1.5V	239,616	Slow	544-1081-ND	39.05	EP1C12Q240C8
240-PQFP	12,060	173	1.5V	239,616	Slow	544-1795-ND◆	35.50	EP1C12Q240C8N
240-PQFP	12,060	173	1.5V	239,616	Medium	544-1082-ND†	58.52	EP1C12Q240I7
240-PQFP	12,060	173	1.5V	239,616	Medium	544-1796-ND◆†	53.20	EP1C12Q240I7N
256-FBGA	12,060	185	1.5V	239,616	Fast	544-1788-ND	61.60	EP1C12F256C6
256-FBGA	12,060	185	1.5V	239,616	Fast	544-1789-ND◆	56.00	EP1C12F256C6N
256-FBGA	12,060	185	1.5V	239,616	Medium	544-1011-ND	49.28	EP1C12F256C7
256-FBGA	12,060	185	1.5V	239,616	Medium	544-1790-ND◆	44.80	EP1C12F256C7N
256-FBGA	12,060	185	1.5V	239,616	Slow	544-1012-ND	41.03	EP1C12F256C8
256-FBGA	12,060	185	1.5V	239,616	Slow	544-1791-ND◆	37.30	EP1C12F256C8N
256-FBGA	12,060	185	1.5V	239,616	Medium	544-1013-ND†	61.60	EP1C12F256I7
256-FBGA	12,060	249	1.5V	239,616	Medium	544-1676-ND◆†	56.00	EP1C12F256I7N
324-FBGA	12,060	249	1.5V	239,616	Fast	544-1034-ND	64.57	EP1C12F324C6
324-FBGA	12,060	249	1.5V	239,616	Fast	544-1680-ND◆	58.70	EP1C12F324C6N
324-FBGA	12,060	249	1.5V	239,616	Medium	544-1035-ND	51.59	EP1C12F324C7
324-FBGA	12,060	249	1.5V	239,616	Medium	544-1679-ND◆	46.90	EP1C12F324C7N
324-FBGA	12,060	249	1.5V	239,616	Slow	544-1036-ND	43.01	EP1C12F324C8
324-FBGA	12,060	249	1.5V	239,616	Slow	544-1792-ND◆	39.10	EP1C12F324C8N
324-FBGA	12,060	249	1.5V	239,616	Medium	544-1037-ND†	64.57	EP1C12F324I7
324-FBGA	20,060	233	1.5V	294,912	Fast	544-1038-ND	99.00	EP1C20F324C6
324-FBGA	20,060	233	1.5V	294,912	Fast	544-1797-ND◆	90.00	EP1C20F324C6N
324-FBGA	20,060	233	1.5V	294,912	Medium	544-1039-ND	79.20	EP1C20F324C7
324-FBGA	20,060	301	1.5V	294,912	Medium	544-1678-ND◆	72.00	EP1C20F324C7N
324-FBGA	20,060	233	1.5V	294,912	Slow	544-1040-ND	66.00	EP1C20F324C8
324-FBGA	20,060	233	1.5V	294,912	Slow	544-1798-ND◆	60.00	EP1C20F324C8N
324-FBGA	20,060	233	1.5V	294,912	Medium	544-1041-ND†	99.00	EP1C20F324I7
324-FBGA	20,060	301	1.5V	294,912	Medium	544-1677-ND◆†	90.00	EP1C20F324I7N
400-FBGA	20,060	301	1.5V	294,912	Fast	544-1046-ND	108.57	EP1C20F400C6
400-FBGA	20,060	301	1.5V	294,912	Fast	544-1687-ND◆	98.70	EP1C20F400C6N
400-FBGA	20,060	301	1.5V	294,912	Medium	544-1047-ND	86.79	EP1C20F400C7
400-FBGA	20,060	301	1.5V	294,912	Slow	544-1048-ND	72.27	EP1C20F400C8
400-FBGA	20,060	301	1.5V	294,912	Medium	544-1049-ND†	108.57	EP1C20F400I7
CYCLONE II								
144-TQFP	4,608	89	1.2V	119,808	Fast	544-2136-ND	21.12	EP2C5T144C6
144-TQFP	4,608	89	1.2V	119,808	Fast	544-2137-ND◆	19.20	EP2C5T144C6N
144-TQFP	4,608	158	1.2V	119,808	Medium	544-1449-ND	16.83	EP2C5T144C7
144-TQFP	4,608	158	1.2V	119,808	Medium	544-1655-ND◆	15.30	EP2C5T144C7N
144-TQFP	4,608	158	1.2V	119,808	Slow	544-1450-ND	14.08	EP2C5T144C8
144-TQFP	4,608	158	1.2V	119,808	Slow	544-1665-ND◆	12.80	EP2C5T144C8N
144-TQFP	4,608	89	1.2V	119,808	Slow	544-2138-ND†	16.83	EP2C5T144I8
144-TQFP	4,608	89	1.2V	119,808	Slow	544-2139-ND◆†	15.30	EP2C5T144I8N
208-PQFP	4,608	158	1.2V	119,808	Medium	544-1447-ND	18.37	EP2C5Q208C7
208-PQFP	4,608	158	1.2V	119,808	Medium	544-1674-ND◆	16.70	EP2C5Q208C7N
208-PQFP	4,608	158	1.2V	119,808	Slow	544-1448-ND	15.29	EP2C5Q208C8
208-PQFP	4,608	158	1.2V	119,808	Slow	544-1673-ND◆	13.90	EP2C5Q208C8N
208-PQFP	4,608	142	1.2V	119,808	Slow	544-2134-ND†	18.37	EP2C5Q208I8
208-PQFP	4,608	142	1.2V	119,808	Slow	544-2135-ND◆†	16.70	EP2C5Q208I8N
256-FBGA	4,608	158	1.2V	119,808	Fast	544-2130-ND	24.64	EP2C5F256C6
256-FBGA	4,608	158	1.2V	119,808	Fast	544-2131-ND◆	22.40	EP2C5F256C6N
256-FBGA	4,608	158	1.2V	119,808	Medium	544-1445-ND	19.69	EP2C5F256C7
256-FBGA	4,608	158	1.2V	119,808	Medium	544-1657-ND◆	17.90	EP2C5F256C7N
256-FBGA	4,608	158	1.2V	119,808	Slow	544-1446-ND	16.39	EP2C5F256C8
256-FBGA	4,608	158	1.2V	119,808	Slow	544-1656-ND◆	14.90	EP2C5F256C8N
256-FBGA	4,608	158	1.2V	119,808	Slow	544-2132-ND†	19.69	EP2C5F256I8
256-FBGA	4,608	158	1.2V	119,808	Slow	544-2133-ND◆†	17.90	EP2C5F256I8N
144-TQFP	8,256	85	1.2V	165,888	Fast	544-2154-ND	31.68	EP2C8T144C6
144-TQFP	8,256	85	1.2V	165,888	Fast	544-2155-ND◆	28.80	EP2C8T144C6N
144-TQFP	8,256	182	1.2V	165,888	Medium	544-1457-ND	25.41	EP2C8T144C7
144-TQFP	8,256	182	1.2V	165,888	Medium	544-1667-ND◆	23.10	EP2C8T144C7N
144-TQFP	8,256	182	1.2V	165,888	Slow	544-1458-ND	21.12	EP2C8T144C8
144-TQFP	8,256	182	1.2V	165,888	Slow	544-1666-ND◆	19.20	EP2C8T144C8N
144-TQFP	8,256	85	1.2V	165,888	Slow	544-2156-ND†	25.41	EP2C8T144I8
144-TQFP	8,256	85	1.2V	165,888	Slow	544-2157-ND◆†	23.10	EP2C8T144I8N
208-PQFP	8,256	182	1.2V	165,888	Medium	544-1455-ND	26.73	EP2C8Q208C7
208-PQFP	8,256	182	1.2V	165,888	Medium	544-1672-ND◆	24.30	EP2C8Q208C7N
208-PQFP	8,256	182	1.2V	165,888	Slow	544-1456-ND	22.33	EP2C8Q208C8
208-PQFP	8,256	182	1.2V	165,888	Slow	544-1671-ND◆	20.30	EP2C8Q208C8N
208-PQFP	8,256	138	1.2V	165,888	Slow	544-2152-ND†	26.73	EP2C8Q208I8
208-PQFP	8,256	138	1.2V	165,888	Slow	544-2153-ND◆†	24.30	EP2C8Q208I8N
256-FBGA	8,256	182	1.2V	165,888	Slow	544-1776-ND◆	28.10	EP2C8AF256I8N
256-FBGA	8,256	182	1.2V	165,888	Medium	544-1453-ND	30.91	EP2C8F256C7
256-FBGA	8,256	182	1.2V	165,888	Medium	544-1654-ND◆	28.10	EP2C8F256C7N
256-FBGA	8,256	182	1.2V	165,888	Slow	544-1454-ND	25.85	EP2C8F256C8
256-FBGA	8,256	182	1.2V	165,888	Slow	544-1653-ND◆	23.50	EP2C8F256C8N
256-FBGA	8,256	182	1.2V	165,888	Fast	544-2148-ND	38.72	EP2C8F256C6
256-FBGA	8,256	182	1.2V	165,888	Fast	544-2149-ND◆	35.20	EP2C8F256C6N
256-FBGA	8,256	182	1.2V	165,888	Slow	544-2150-ND†	30.91	EP2C8F256I8
256-FBGA	8,256	182	1.2V	165,888	Slow	544-2151-ND◆†	28.10	EP2C8F256I8N
256-FBGA	14,448	315	1.2V	239,616	Fast	544-1777-ND◆	52.00	EP2C15AF256C6N
256-FBGA	14,448	152	1.2V	239,616	Medium	544-2097-ND◆	41.60	EP2C15AF256C7N
256-FBGA	14,448	152	1.2V	239,616	Slow	544-2098-ND◆	34.70	EP2C15AF256C8N
256-FBGA	14,448	315	1.2V	239,616	Slow	544-1780-ND◆†	41.60	EP2C15AF256I8N
484-FBGA	14,448	315	1.2V	239,616	Fast	544-1778-ND◆	58.40	EP2C15AF484C6N
484-FBGA	14,448	315	1.2V	239,616	Medium	544-2099-ND◆	46.70	EP2C15AF484C7N
484-FBGA	14,448	315	1.2V	239,616	Slow	544-2100-ND◆	38.90	EP2C15AF484C8N
484-FBGA	14,448	315	1.2V	239,616	Slow	544-1779-ND◆†	46.70	EP2C15AF484I8N
240-PQFP	18,752	142	1.2V	239,616	Slow	544-2106-ND	46.97	EP2C20Q240C8
240-PQFP	18,752	142	1.2V	239,616	Slow	544-2107-ND◆	42.70	EP2C20Q240C8N
256-FBGA	18,752	315	1.2V	239,616	Slow	544-1781-ND◆†	51.20	EP2C20AF256I8N
256-FBGA	18,752	152	1.2V	239,616	Fast	544-1360-ND	70.40	EP2C20F256C6
256-FBGA	18,752	315	1.2V	239,616	Fast	544-1660-ND◆	64.00	EP2C20F256C6N
256-FBGA	18,752	152	1.2V	239,616	Medium	544-1361-ND	56.32	EP2C20F256C7
256-FBGA	18,752	315	1.2V	239,616	Medium	544-1659-ND◆	51.20	EP2C20F256C7N
256-FBGA	18,752	152	1.2V	239,616	Slow	544-1362-ND	46.97	EP2C20F256C8
256-FBGA	18,752	315	1.2V	239,616	Slow	544-1658-ND◆	42.70	EP2C20F256C8N
256-FBGA	18,752	152	1.2V	239,616	Slow	544-2102-ND†	56.32	EP2C20F256I8
256-FBGA	18,752	152	1.2V	239,616	Slow	544-2103-ND◆†	51.20	EP2S20F256I8N
484-FBGA	18,752	315	1.2V	239,616	Slow	544-2101-ND◆†	56.30	EP2C20AF484I8N
484-FBGA	18,752	315	1.2V	239,616	Fast	544-1363-ND	77.44	EP2C20F484C6
484-FBGA	18,752	315	1.2V	239,616	Fast	544-1670-ND◆	70.40	EP2C20F484C6N
484-FBGA	18,752	315	1.2V	239,616	Medium	544-1364-ND	61.93	EP2C20F484C7
484-FBGA	18,752	315	1.2V	239,616	Medium	544-1669-ND◆	56.30	EP2C20F484C7N
484-FBGA	18,752	315	1.2V	239,616	Slow	544-1365-ND	51.59	EP2C20F484C8
484-FBGA	18,752	315	1.2V	239,616	Slow	544-1668-ND◆	46.90	EP2C20F484C8N
484-FBGA	18,752	315	1.2V	239,616	Slow	544-2104-ND†	61.93	EP2C20F484I8
484-FBGA	18,752	315	1.2V	239,616	Slow	544-2105-ND◆†	56.30	EP2C20F484I8N
484-FBGA	33,216	322	1.2V	483,840	Fast	544-1076-ND	149.60	EP2C35F484C6
484-FBGA	33,216	475	1.2V	483,840	Fast	544-1686-ND◆	136.00	EP2C35F484C6N
484-FBGA	33,216	322	1.2V	483,840	Medium	544-1077-ND	124.63	EP2C35F484C7
484-FBGA	33,216	475	1.2V	483,840	Medium	544-1685-ND◆	113.30	EP2C35F484C7N
484-FBGA	33,216	322	1.2V	483,840	Slow	544-1078-ND	99.77	EP2C35F484C8
484-FBGA	33,216	322	1.2V	483,840	Slow	544-1366-ND◆	90.70	EP2C35F484C8N
484-FBGA	33,216	322	1.2V	483,840	Slow	544-2108-ND†	124.63	EP2C35F484I8
484-FBGA	33,216	322	1.2V	483,840	Slow	544-2109-ND◆†	113.30	EP2C35F484I8N
484-UBGA	33,216	322	1.2V	483,840	Fast	544-2112-ND	149.60	EP2C35U484C6
484-UBGA	33,216	322	1.2V	483,840	Slow	544-2113-ND	99.77	EP2C35U484C8
484-UBGA	33,216	322	1.2V	483,840	Slow	544-2114-ND◆	90.70	EP2C35U484C8N
484-UBGA	33,216	322	1.2V	483,840	Slow	544-2115-ND◆†	113.30	EP2C35U484I8N
672-FBGA	33,216	475	1.2V	483,840	Fast	544-1087-ND	164.56	EP2C35F672C6
672-FBGA	33,216	475	1.2V	483,840	Fast	544-1694-ND◆	149.60	EP2C35F672C6N
672-FBGA	33,216	475	1.2V	483,840	Medium	544-1088-ND	137.17	EP2C35F672C7
672-FBGA	33,216	475	1.2V	483,840	Medium	544-1693-ND◆	124.70	EP2C35F672C7N
672-FBGA	33,216	475	1.2V	483,840	Slow	544-1692-ND◆	99.70	EP2C35F672C8N
672-FBGA	33,216	475	1.2V	483,840	Slow	544-2110-ND†	137.17	EP2C35F672I8
672-FBGA	33,216	475	1.2V	483,840	Slow	544-2111-ND◆†	124.70	EP2C35F672I8N
484-FBGA	50,528	294	1.2V	594,432	Fast	544-2116-ND	264.00	EP2C50F484C6
484-FBGA	50,528	294	1.2V	594,432	Fast	544-2117-ND◆	240.00	EP2C50F484C6N
484-FBGA	50,528	294	1.2V	594,432	Medium	544-2118-ND	211.20	EP2C50F484C7
484-FBGA	50,528	294	1.2V	594,432	Medium	544-2119-ND◆	192.00	EP2C50F484C7N
484-FBGA	50,528	294	1.2V	594,432	Slow	544-2120-ND	176.00	EP2S50F484C8
484-FBGA	50,528	294	1.2V	594,432	Slow	544-2121-ND◆	160.00	EP2C50F484C8N
484-FBGA	50,528	294	1.2V	594,432	Slow	544-2122-ND†	211.20	EP2C50F484I8
484-FBGA	50,528	294	1.2V	594,432	Slow	544-2123-ND◆†	192.00	EP2C50F484I8N
484-UBGA	50,528	294	1.2V	594,432	Fast	544-2128-ND	264.00	EP2C50U484C6
484-UBGA	50,528	294	1.2V	594,432	Medium	544-2129-ND◆	192.00	EP2C50U484C7N
672-FBGA	50,528	450	1.2V	594,432	Fast	544-2124-ND	281.60	EP2C50F672C6
672-FBGA	50,528	450	1.2V	594,432	Fast	544-2125-ND◆	256.00	EP2C50F672C6N
672-FBGA	50,528	450	1.2V	594,432	Medium	544-1443-ND	225.50	EP2C50F672C7
672-FBGA	50,528	450	1.2V	594,432	Medium	544-1691-ND◆	205.00	EP2C50F672C7N
672-FBGA	50,528	450	1.2V	594,432	Slow	544-1444-ND	188.10	EP2C50F672C8
672-FBGA	50,528	450	1.2V	594,432	Slow	544-1690-ND◆	171.00	EP2C50F672C8N
672-FBGA	50,528	450	1.2V	594,432	Slow	544-2126-ND†	225.50	EP2C50F672I8
672-FBGA	50,528	450	1.2V	594,432	Slow	544-2127-ND◆†	205.00	EP2C50F672I8N
672-FBGA	68,416	422	1.2V	1,152,000	Fast	544-2140-ND	387.20	EP2C70F672C6
672-FBGA	68,416	422	1.2V	1,152,000	Fast	544-2141-ND◆	352.00	EP2C70F672C6N
672-FBGA	68,416	622	1.2V	1,152,000	Medium	544-1451-ND	310.20	EP2C70F672C7
672-FBGA	68,416	622	1.2V	1,152,000	Medium	544-1689-ND◆	282.00	EP2C70F672C7N
672-FBGA	68,416	422	1.2V	1,152,000	Slow	544-1409-ND	258.50	EP2C70F672C8
672-FBGA	68,416	622	1.2V	1,152,000	Slow	544-1688-ND◆	235.00	EP2C70F672C8N
672-FBGA	68,416	422	1.2V	1,152,000	Slow	544-2142-ND†	310.20	EP2C70F672I8
672-FBGA	68,416	422	1.2V	1,152,000	Slow	544-2143-ND◆†	282.00	EP2C70F672I8N
896-FBGA	68,416	622	1.2V	1,152,000	Fast	544-2144-ND	422.40	EP2C70F896C6
896-FBGA	68,416	622	1.2V	1,152,000	Fast	544-2145-ND◆	384.00	EP2C70F896C6N
896-FBGA	68,416	622	1.2V	1,152,000	Medium	544-1452-ND	337.70	EP2C70F896C7
896-FBGA	68,416	622	1.2V	1,152,000	Medium	544-1696-ND◆	307.00	EP2C70F896C7N
896-FBGA	68,416	622	1.2V	1,152,000	Slow	544-1410-ND	281.60	EP2C70F896C8
896-FBGA	68,416	622	1.2V	1,152,000	Slow	544-1695-ND◆	256.00	EP2C70F896C8N
896-FBGA	68,416	622	1.2V	1,152,000	Slow	544-2146-ND†	337.70	EP2C70F896I8
896-FBGA	68,416	622	1.2V	1,152,000	Slow	544-2147-ND◆†	307.00	EP2C70F896I8N
CYCLONE III								
144-EQFP	5,000	94	1.2V	414	Medium	544-2428-ND	15.30	EP3C5E144C7
144-EQFP	10,000	94	1.2V	414	Medium	544-2429-ND◆	15.30	EP3C5E144C7N
144-EQFP	5,000	94	1.2V	414	Slow	544-2430-ND	12.80	EP3C5E144C8
144-EQFP	5,000	94	1.2V	414	Slow	544-2431-ND◆	12.80	EP3C5E144C8N
144-EQFP	5,136	94	1.2V	414	Medium	544-2557-ND◆†▲	19.20	EP3C5E144I7N
164-MBGA	5,136	106	1.2V	414	Medium	544-2559-ND◆▲	17.90	EP3C5M164C7N
256-FBGA	5,000	182	1.2V	414	Medium	544-2418-ND	26.80	EP3C5F256C6
256-FBGA	5,000	182	1.2V	414	Fast	544-2419-ND◆	26.80	EP3C5F256C6N
256-FBGA	5,000	182	1.2V	414	Medium	544-2420-ND	17.90	EP3C5F256C7
256-FBGA	5,000	182	1.2V	414	Medium	544-2421-ND◆	17.90	EP3C5F256C7N
256-FBGA	5,000	182	1.2V	414	Slow	544-2422-ND	14.90	EP3C5F256C8
256-FBGA	5,000	182	1.2V	414	Slow	544-2423-ND◆	14.90	EP3C5F256C8N
256-FGBA	5,136	182	1.2V	414	Medium	544-2558-ND◆†▲	26.80	EP3C5F256I7N
256-UBGA	5,136	182	1.2V	414	Medium	544-2560-ND◆†▲	29.60	EP3C5U256I7N
144-EQFP	10,000	94	1.2V	414	Medium	544-2424-ND	23.10	EP3C10E144C7
144-EQFP	10,000	94	1.2V	414	Medium	544-2425-ND◆	23.10	EP3C10E144C7N
144-EQFP	10,000	94	1.2V	414	Slow	544-2426-ND	19.20	EP3C10E144C8
144-EQFP	10,000	94	1.2V	414	Slow	544-2427-ND◆	19.20	EP3C10E144C8N
144-EQFP	10,320	94	1.2V	414	Medium	544-2535-ND◆†▲	28.80	EP3C10E144I7N
256-FBGA	10,000	182	1.2V	414	Fast	544-2412-ND	35.20	EP3C10F256C6
256-FBGA	10,000	182	1.2V	414	Fast	544-2413-ND◆	35.20	EP3C10F256C6N
256-FBGA	10,000	182	1.2V	414	Medium	544-2414-ND	28.10	EP3C10F256C7
256-FBGA	10,000	182	1.2V	414	Medium	544-2415-ND◆	28.10	EP3C10F256C7N
256-FBGA	10,000	182	1.2V	414	Slow	544-2416-ND	23.50	EP3C10F256C8
256-FBGA	10,000	182	1.2V	414	Fast	544-2417-ND◆	23.50	EP3C10F256C8N
256-FBGA	10,320	182	1.2V	414	Medium	544-2536-ND◆†▲	35.20	EP3C10F256I7N
256-UBGA	10,000	182	1.2V	414	Fast	544-2432-ND	38.70	EP3C10U256C6
256-UBGA	10,000	182	1.2V	414	Fast	544-2433-ND◆	38.70	EP3C10U256C6N
256-UBGA	10,000	182	1.2V	414	Medium	544-2435-ND◆	30.90	EP3C10U256C67N
256-UBGA	10,000	182	1.2V	414	Medium	544-2434-ND	30.90	EP3C10U256C7
256-UBGA	10,000	182	1.2V	414	Slow	544-2436-ND	25.80	EP3C10U256C8
256-UBGA	10,000	182	1.2V	414	Slow	544-2437-ND◆	25.80	EP3C10U256C8N
256-UBGA	10,320	182	1.2V	414	Medium	544-2537-ND◆†▲	38.70	EP3C10U256I7N
144-EQFP	15,408	84	1.2V	504	Medium	544-2455-ND◆	32.00	EP3C16E144C7N
144-EQFP	15,408	84	1.2V	504	Slow	544-2540-ND▲	26.70	EP3C16E144C8
144-EQFP	15,408	84	1.2V	504	Slow	544-2456-ND◆	26.70	EP3C16E144C8N
164-MBGA	15,408	92	1.2V	504	Slow	544-2541-ND◆▲	28.50	EP3C16M164C8N
240-PQFP	15,408	160	1.2V	504	Slow	544-2457-ND	29.10	EP3C16Q240C8
240-PQFP	15,408	160	1.2V	504	Slow	544-2458-ND◆	29.10	EP3C16Q240C8N
256-FBGA	15,408	168	1.2V	504	Fast	544-2459-ND	44.40	EP3C16F256C6
256-FBGA	15,408	168	1.2V	504	Medium	544-2460-ND	35.50	EP3C16F256C7
256-FBGA	15,408	168	1.2V	504	Slow	544-2461-ND	29.60	EP3C16F256C8
256-FBGA	15,408	168	1.2V	504	Fast	544-2462-ND◆	44.40	EP3C16F256C6N
256-FBGA	15,408	168	1.2V	504	Medium	544-2463-ND◆	35.50	EP3C16F256C7N
256-FBGA	15,408	168	1.2V	504	Slow	544-2464-ND◆	29.60	EP3C16F256C8N
256-UBGA	15,408	168	1.2V	504	Medium	544-2465-ND	38.00	EP3C16U256C7
256-UBGA	15,408	168	1.2V	504	Slow	544-2466-ND	31.70	EP3C16U256C8
256-UBGA	15,408	168	1.2V	504	Medium	544-2467-ND◆	38.00	EP3C16U256C7N

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C ◊ Tube ▲ ***NEW!*** *(Continued)*

FPGAs *(Cont.)*

Package	Gates	I/O Pins	Operating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
256-UBGA	15,408	168	1.2V	504	Slow	544-2468-ND◆	31.70	EP3C16U256C8N
484-FBGA	15,408	346	1.2V	504	Fast	544-2469-ND	49.90	EP3C16F484C6
484-FBGA	15,408	346	1.2V	504	Fast	544-2472-ND◆	49.90	EP3C16F484C6N
484-FBGA	15,408	346	1.2V	504	Medium	544-2470-ND	39.90	EP3C16F484C7
484-FBGA	15,408	346	1.2V	504	Medium	544-2473-ND◆	39.90	EP3C16F484C7N
484-FBGA	15,408	346	1.2V	504	Slow	544-2471-ND	33.20	EP3C16F484C8
484-FBGA	15,408	346	1.2V	504	Slow	544-2474-ND◆	33.20	EP3C16F484C8N
484-UBGA	15,408	346	1.2V	504	Fast	544-2475-ND	54.80	EP3C16U484C6
484-UBGA	15,408	346	1.2V	504	Fast	544-2478-ND◆	54.80	EP3C16U484C6N
484-UBGA	15,408	346	1.2V	504	Medium	544-2476-ND	43.90	EP3C16U484C7
484-UBGA	15,408	346	1.2V	504	Medium	544-2479-ND◆	43.90	EP3C16U484C7N
484-UBGA	15,408	346	1.2V	504	Slow	544-2477-ND	36.50	EP3C16U484C8
484-UBGA	15,408	346	1.2V	504	Slow	544-2480-ND◆	36.50	EP3C16U484C8N
144-EQFP	24,624	82	1.2V	594	Slow	544-2075-ND◆	39.50	EP3C25E144C8N
144-EQFP	24,624	82	1.2V	594	Medium	544-2542-ND◆†▲	59.20	EP3C25E144I7N
240-PQFP	24,624	148	1.2V	594	Slow	544-2076-ND◆	42.70	EP3C25Q240C8N
256-FBGA	24,624	156	1.2V	594	Slow	544-2077-ND◆	44.80	EP3C25F256C8N
256-UBGA	24,624	156	1.2V	594	Slow	544-2545-ND◆▲	46.90	EP3C25U256C8N
256-FBGA	24,624	156	1.2V	594	Medium	544-2543-ND◆†▲	67.20	EP3C25F256I7N
256-UBGA	24,624	156	1.2V	594	Medium	544-2546-ND◆†▲	70.40	EP3C25U256I7N
324-FBGA	24,624	215	1.2V	594	Medium	544-2565-ND◆▲	101.30	EP3C25F324A7N
324-FBGA	24,624	215	1.2V	594	Slow	544-2078-ND◆	49.30	EP3C25F324C8N
324-FBGA	24,624	215	1.2V	594	Medium	544-2544-ND◆†▲	73.90	EP3C25F324I7N
240-PQFP	39,600	128	1.2V	1,134	Slow	544-2550-ND▲	78.50	EP3C40Q240C8
240-PQFP	39,600	128	1.2V	1,134	Slow	544-2551-ND◆▲	78.50	EP3C40Q240C8N
324-FBGA	39,600	195	1.2V	1,134	Fast	544-2481-ND	122.00	EP3C40F324C6
324-FBGA	39,600	195	1.2V	1,134	Fast	544-2484-ND◆	122.00	EP3C40F324C6N
324-FBGA	39,600	195	1.2V	1,134	Medium	544-2482-ND	97.60	EP3C40F324C7
324-FBGA	39,600	195	1.2V	1,134	Medium	544-2485-ND◆	97.60	EP3C40F324C7N
324-FBGA	39,600	195	1.2V	1,134	Slow	544-2483-ND	81.30	EP3C40F324C8
324-FBGA	39,600	195	1.2V	1,134	Slow	544-2486-ND◆	81.30	EP3C40F324C8N
324-FBGA	39,600	195	1.2V	1,134	Medium	544-2547-ND◆†▲	122.00	EP3C40F324I7N
484-FBGA	39,600	331	1.2V	1,134	Fast	544-2487-ND	129.70	EP3C40F484C6
484-FBGA	39,600	331	1.2V	1,134	Fast	544-2490-ND◆	129.70	EP3C40F484C6N
484-FBGA	39,600	331	1.2V	1,134	Medium	544-2488-ND	103.70	EP3C40F484C7
484-FBGA	39,600	331	1.2V	1,134	Medium	544-2491-ND◆	103.70	EP3C40F484C7N
484-FBGA	39,600	331	1.2V	1,134	Slow	544-2489-ND	86.50	EP3C40F484C8
484-FBGA	39,600	331	1.2V	1,134	Slow	544-2492-ND◆	86.50	EP3C40F484C8N
484-FBGA	39,600	331	1.2V	1,134	Medium	544-2548-ND◆†▲	129.70	EP3C40F484I7N
484-UBGA	39,600	331	1.2V	1,134	Fast	544-2493-ND	142.80	EP3C40U484C6
484-UBGA	39,600	331	1.2V	1,134	Medium	544-2494-ND	114.30	EP3C40U484C7
484-UBGA	39,600	331	1.2V	1,134	Slow	544-2495-ND	95.20	EP3C40U484C8
484-UBGA	39,600	331	1.2V	1,134	Fast	544-2496-ND◆	142.80	EP3C40U484C6N
484-UBGA	39,600	331	1.2V	1,134	Medium	544-2497-ND◆	114.30	EP3C40U484C7N
484-UBGA	39,600	331	1.2V	1,134	Slow	544-2498-ND◆	95.20	EP3C40U484C8N
484-UBGA	39,600	331	1.2V	1,134	Medium	544-2552-ND◆†▲	142.80	EP3C40U484I7N
780-FBGA	39,600	535	1.2V	1,134	Fast	544-2499-ND	166.50	EP3C40F780C6
780-FBGA	39,600	535	1.2V	1,134	Fast	544-2502-ND◆	166.50	EP3C40F780C6N
780-FBGA	39,600	535	1.2V	1,134	Medium	544-2500-ND	133.20	EP3C40F780C7
780-FBGA	39,600	535	1.2V	1,134	Medium	544-2503-ND◆	133.20	EP3C40F780C7N
780-FBGA	39,600	535	1.2V	1,134	Slow	544-2501-ND	111.00	EP3C40F780C8
780-FBGA	39,600	535	1.2V	1,134	Slow	544-2504-ND◆	111.00	EP3C40F780C8N
780-FBGA	39,600	535	1.2V	1,134	Medium	544-2549-ND◆†▲	166.50	EP3C40F780I7N
484-FBGA	55,856	327	1.2V	2,340	Fast	544-2505-ND	212.30	EP3C55F484C6
484-FBGA	55,856	327	1.2V	2,340	Fast	544-2508-ND◆	212.30	EP3C55F484C6N
484-FBGA	55,856	327	1.2V	2,340	Medium	544-2506-ND	169.70	EP3C55F484C7
484-FBGA	55,856	327	1.2V	2,340	Medium	544-2509-ND◆	169.70	EP3C55F484C7N
484-FBGA	55,856	327	1.2V	2,340	Slow	544-2507-ND	141.50	EP3C55F484C8
484-FBGA	55,856	327	1.2V	2,340	Slow	544-2510-ND◆	141.50	EP3C55F484C8N
484-FBGA	55,856	327	1.2V	2,340	Medium	544-2553-ND◆†▲	212.30	EP3C55F484I7N
484-UBGA	55,856	327	1.2V	2,340	Fast	544-2511-ND◆	218.50	EP3C55U484C6N
484-UBGA	55,856	327	1.2V	2,340	Medium	544-2512-ND◆	174.80	EP3C55U484C7N
484-UBGA	55,856	327	1.2V	2,340	Slow	544-2555-ND▲	145.70	EP3C55U484C8
484-UBGA	55,856	327	1.2V	2,340	Slow	544-2513-ND◆	145.70	EP3C55U484C8N
484-UBGA	55,856	327	1.2V	2,340	Medium	544-2556-ND◆†▲	218.50	EP3C55U484I7N
780-FBGA	55,856	377	1.2V	2,340	Fast	544-2514-ND	226.40	EP3C55F780C6
780-FBGA	55,856	377	1.2V	2,340	Fast	544-2517-ND◆	226.40	EP3C55F780C6N
780-FBGA	55,856	377	1.2V	2,340	Medium	544-2515-ND	181.10	EP3C55F780C7
780-FBGA	55,856	377	1.2V	2,340	Medium	544-2518-ND◆	181.10	EP3C55F780C7N
780-FBGA	55,856	377	1.2V	2,340	Slow	544-2516-ND	150.90	EP3C55F780C8
780-FBGA	55,856	377	1.2V	2,340	Slow	544-2519-ND◆	150.90	EP3C55F780C8N
780-FBGA	55,856	377	1.2V	2,340	Medium	544-2554-ND◆†▲	226.40	EP3C55F780I7N
484-FBGA	81,264	295	1.2V	2,745	Slow	544-2561-ND▲	223.00	EP3C80F484C8
484-FBGA	81,264	295	1.2V	2,745	Slow	544-2562-ND◆▲	223.00	EP3C80F484C8N
484-UBGA	81,264	295	1.2V	2,745	Slow	544-2563-ND◆▲	230.50	EP3C80U484C8
484-UBGA	81,264	295	1.2V	2,745	Slow	544-2564-ND◆▲	230.50	EP3C80U484C8N
780-FBGA	81,264	429	1.2V	2,745	Fast	544-2520-ND	368.50	EP3C80F780C6
780-FBGA	81,264	429	1.2V	2,745	Fast	544-2523-ND◆	368.50	EP3C80F780C6N
780-FBGA	81,264	429	1.2V	2,745	Medium	544-2521-ND	294.80	EP3C80F780C7
780-FBGA	81,264	429	1.2V	2,745	Medium	544-2524-ND◆	294.80	EP3C80F780C7N
780-FBGA	81,264	429	1.2V	2,745	Slow	544-2522-ND	245.70	EP3C80F780C8
780-FBGA	81,264	429	1.2V	2,745	Slow	544-2525-ND◆	245.70	EP3C80F780C8N
484-FBGA	119,088	283	1.2V	3,888	Medium	544-2390-ND	464.00	EP3C120F484C7
484-FBGA	119,088	283	1.2V	3,888	Medium	544-2528-ND◆	464.00	EP3C120F484C7N
484-FBGA	119,088	283	1.2V	3,888	Medium	544-2538-ND◆†▲	580.00	EP3C120F484I7N
484-FBGA	119,088	283	1.2V	3,888	Slow	544-2388-ND	387.00	EP3C120F484C8
484-FBGA	119,088	283	1.2V	3,888	Slow	544-2389-ND◆	387.00	EP3C120F484C8N
780-FBGA	119,088	531	1.2V	3,888	Medium	544-2393-ND	502.00	EP3C120F780C7
780-FBGA	119,088	283	1.2V	3,888	Medium	544-2394-ND◆	502.00	EP3C120F780C7N
780-FBGA	119,088	531	1.2V	3,888	Medium	544-2539-ND◆†▲	627.00	EP3C120F780I7N
780-FBGA	119,088	283	1.2V	3,888	Slow	544-2391-ND	418.00	EP3C120F780C8
780-FBGA	119,088	531	1.2V	3,888	Slow	544-2392-ND◆	418.00	EP3C120F780C8N
STRATIX								
484-FBGA	10,570	335	1.5V	920,448	Medium	544-2084-ND	313.50	EP1S10F484C6
484-FBGA	10,570	335	1.5V	920,448	Slow	544-1100-ND	225.50	EP1S10F484C7
672-FBGA	10,570	345	1.5V	920,448	Medium	544-1108-ND	291.50	EP1S10F672C6
672-FBGA	10,570	345	1.5V	920,448	Slow	544-1851-ND◆	190.00	EP1S10F672C7N
672-FBGA	10,570	345	1.5V	920,448	Slow	544-1110-ND†	291.50	EP1S10F672I7
780-FBGA	10,570	426	1.5V	920,448	Medium	544-1111-ND	346.50	EP1S10F780C6
780-FBGA	10,570	426	1.5V	920,448	Slow	544-1112-ND	247.50	EP1S10F780C7
780-FBGA	10,570	426	1.5V	920,448	Slow	544-1852-ND◆	225.00	EP1S10F780C7N
780-FBGA	10,570	426	1.5V	920,448	Medium	544-2085-ND†	495.00	EP1S10F780I6
484-FBGA	18,460	361	1.5V	1,669,248	Slow	544-1101-ND	385.00	EP1S20F484C7
484-FBGA	18,460	361	1.5V	1,669,248	Medium	544-2086-ND†	775.50	EP1S20F484I6
672-FBGA	18,460	426	1.5V	1,669,248	Medium	544-1853-ND	500.50	EP1S20F672C6
672-FBGA	18,460	426	1.5V	1,669,248	Slow	544-1113-ND	357.50	EP1S20F672C7
672-FBGA	18,460	426	1.5V	1,669,248	Slow	544-1854-ND◆	325.00	EP1S20F672C7N
780-FBGA	18,460	586	1.5V	1,669,248	Fast	544-1114-ND	836.00	EP1S20F780C5
780-FBGA	18,460	586	1.5V	1,669,248	Medium	544-1115-ND	583.00	EP1S20F780C6
780-FBGA	18,460	586	1.5V	1,669,248	Slow	544-1116-ND	418.00	EP1S20F780C7
780-FBGA	18,460	586	1.5V	1,669,248	Slow	544-1855-ND◆	380.00	EP1S20F780C7N
780-FBGA	18,460	586	1.5V	1,669,248	Medium	544-1856-ND†	836.00	EP1S20F780I6
672-FBGA	25,660	473	1.5V	1,944,576	Medium	544-1117-ND	836.00	EP1S25F672C6
672-FBGA	25,660	473	1.5V	1,944,576	Slow	544-1118-ND	545.00	EP1S25F672C7
672-FBGA	25,660	473	1.5V	1,944,576	Slow	544-1858-ND◆	545.00	EP1S25F672C7N
672-FBGA	25,660	473	1.5V	1,944,576	Slow	544-1119-ND	506.00	EP1S25F672C8
672-FBGA	25,660	473	1.5V	1,944,576	Slow	544-2087-ND†	836.00	EP1S25F672I7
780-FBGA	25,660	597	1.5V	1,944,576	Fast	544-1120-ND	1347.50	EP1S25F780C5
780-FBGA	25,660	597	1.5V	1,944,576	Medium	544-1121-ND	946.00	EP1S25F780C6
780-FBGA	25,660	597	1.5V	1,944,576	Medium	544-1859-ND◆	860.00	EP1S25F780C6N
780-FBGA	25,660	597	1.5V	1,944,576	Slow	544-1122-ND	671.00	EP1S25F780C7
780-FBGA	25,660	597	1.5V	1,944,576	Slow	544-1860-ND◆	610.00	EP1S25F780C7N
1020-FBGA	25,660	706	1.5V	1,944,576	Fast	544-1857-ND	1452.00	EP1S25F1020C5
1020-FBGA	25,660	706	1.5V	1,944,576	Slow	544-1129-ND	726.00	EP1S25F1020C7
780-FBGA	32,470	597	1.5V	3,317,184	Medium	544-2088-ND	1155.00	EP1S30F780C6
780-FBGA	32,470	726	1.5V	3,317,184	Slow	544-1422-ND	704.00	EP1S30F780C8
780-FBGA	32,470	597	1.5V	3,317,184	Medium	544-1861-ND†	1650.00	EP1S30F780I6
956-BGA	32,470	726	1.5V	3,317,184	Medium	544-1417-ND	1364.00	EP1S30B956C6
956-BGA	32,470	726	1.5V	3,317,184	Slow	544-1418-ND	973.50	EP1S30B956C7
1020-FBGA	32,470	726	1.5V	3,317,184	Medium	544-1419-ND	1259.50	EP1S30F1020C6
1020-FBGA	32,470	726	1.5V	3,317,184	Slow	544-1420-ND	896.50	EP1S30F1020C7
780-FBGA	41,250	615	1.5V	3,423,744	Fast	544-1782-ND	2095.50	EP1S40F780C5
780-FBGA	41,250	822	1.5V	3,423,744	Slow	544-1429-ND	1045.00	EP1S40F780C7
956-BGA	41,250	822	1.5V	3,423,744	Medium	544-1423-ND	1721.50	EP1S40B956C6
956-BGA	41,250	822	1.5V	3,423,744	Slow	544-1424-ND	1226.50	EP1S40B956C7
1020-FBGA	41,250	773	1.5V	3,423,744	Fast	544-2089-ND	2277.00	EP1S40F1020C5
1020-FBGA	41,250	822	1.5V	3,423,744	Medium	544-1425-ND	1595.00	EP1S40F1020C6
1020-FBGA	41,250	822	1.5V	3,423,744	Slow	544-1426-ND	1138.50	EP1S40F1020C7
1020-FBGA	41,250	773	1.5V	3,423,744	Medium	544-1862-ND†	2277.00	EP1S40F1020I6
1508-FBGA	41,250	822	1.5V	3,423,744	Medium	544-1427-ND	1721.50	EP1S40F1508C6
1508-FBGA	41,250	822	1.5V	3,423,744	Slow	544-1428-ND	1226.50	EP1S40F1508C7
956-BGA	57,120	1,022	1.5V	5,215,104	Slow	544-1432-ND	2216.51	EP1S60B956C7
1020-FBGA	57,120	1,022	1.5V	5,215,104	Medium	544-1433-ND	2892.99	EP1S60F1020C6
1020-FBGA	57,120	1,022	1.5V	5,215,104	Slow	544-1434-ND	2068.01	EP1S60F1020C7
1508-FBGA	57,120	1,022	1.5V	5,215,104	Medium	544-1435-ND	3107.50	EP1S60F1508C6
1508-FBGA	57,120	1,022	1.5V	5,215,104	Slow	544-1436-ND	2216.51	EP1S60F1508C7
956-BGA	79,040	1,238	1.5V	7,427,520	Medium	544-1437-ND	7914.51	EP1S80B956C6
956-BGA	79,040	1,238	1.5V	7,427,520	Slow	544-1438-ND	5654.00	EP1S80B956C7
1020-FBGA	79,040	1,238	1.5V	7,427,520	Medium	544-1439-ND	7672.52	EP1S80F1020C6
1020-FBGA	79,040	1,238	1.5V	7,427,520	Slow	544-1440-ND	5478.01	EP1S80F1020C7
1508-FBGA	79,040	1,238	1.5V	7,427,520	Medium	544-1441-ND	7914.51	EP1S80F1508C6
1508-FBGA	79,040	1,238	1.5V	7,427,520	Slow	544-1442-ND	5654.00	EP1S80F1508C7
STRATIX II								
484-FBGA	15,600	342	1.2V	419,328	Fast	544-1873-ND	330.00	EP2S15F484C3
484-FBGA	15,600	342	1.2V	419,328	Fast	544-1874-ND◆	300.00	EP2S15F484C3N
484-FBGA	15,600	342	1.2V	419,328	Medium	544-1104-ND	258.50	EP2S15F484C4
484-FBGA	15,600	342	1.2V	419,328	Medium	544-1875-ND◆	235.00	EP2S15F484C4N
484-FBGA	15,600	342	1.2V	419,328	Slow	544-1105-ND	209.00	EP2S15F484C5
484-FBGA	15,600	342	1.2V	419,328	Slow	544-1876-ND◆	190.00	EP2S15F484C5N
484-FBGA	15,600	342	1.2V	419,328	Medium	544-1877-ND†	330.00	EP2S15F484I4
484-FBGA	15,600	342	1.2V	419,328	Medium	544-1878-ND◆†	300.00	EP2S15F484I4N
672-FBGA	15,600	366	1.2V	419,328	Fast	544-1879-ND	374.00	EP2S15F672C3
672-FBGA	15,600	366	1.2V	419,328	Fast	544-1880-ND◆	340.00	EP2S15F672C3N
672-FBGA	15,600	366	1.2V	419,328	Medium	544-1123-ND	291.50	EP2S15F672C4
672-FBGA	15,600	366	1.2V	419,328	Slow	544-1124-ND	236.50	EP2S15F672C5
672-FBGA	15,600	366	1.2V	419,328	Slow	544-1881-ND◆	215.00	EP2S15F672C5N
672-FBGA	15,600	366	1.2V	419,328	Medium	544-1882-ND†	374.00	EP2S15F672I4
484-FBGA	33,880	342	1.2V	1,369,728	Fast	544-1889-ND	709.50	EP2S30F484C3
484-FBGA	33,880	342	1.2V	1,369,728	Fast	544-1890-ND◆	645.00	EP2S30F484C3N
484-FBGA	33,880	342	1.2V	1,369,728	Medium	544-1106-ND	555.50	EP2S30F484C4
484-FBGA	33,880	342	1.2V	1,369,728	Medium	544-1891-ND◆	505.00	EP2S30F484C4N
484-FBGA	33,880	342	1.2V	1,369,728	Slow	544-1107-ND	445.50	EP2S30F484C5
484-FBGA	33,880	342	1.2V	1,369,728	Slow	544-1892-ND◆	405.00	EP2S30F484C5N
484-FBGA	33,880	342	1.2V	1,369,728	Medium	544-1893-ND†	709.50	EP2S30F484I4
484-FBGA	33,880	342	1.2V	1,369,728	Medium	544-1894-ND◆†	645.00	EP2S30F484I4N
672-FBGA	33,880	500	1.2V	1,369,728	Fast	544-1895-ND	792.00	EP2S30F672C3
672-FBGA	33,880	500	1.2V	1,369,728	Fast	544-1896-ND◆	720.00	EP2S30F672C3N
672-FBGA	33,880	500	1.2V	1,369,728	Medium	544-1125-ND	616.00	EP2S30F672C4
672-FBGA	33,880	500	1.2V	1,369,728	Medium	544-1897-ND◆	560.00	EP2S30F672C4N
672-FBGA	33,880	500	1.2V	1,369,728	Slow	544-1126-ND	495.00	EP2S30F672C5
672-FBGA	33,880	500	1.2V	1,369,728	Slow	544-1898-ND◆	450.00	EP2S30F672C5N
672-FBGA	33,880	500	1.2V	1,369,728	Medium	544-1899-ND†	792.00	EP2S30F672I4
672-FBGA	33,880	500	1.2V	1,369,728	Medium	544-1900-ND◆†	720.00	EP2S30F672I4N
484-FBGA	60,440	334	1.2V	2,544,192	Fast	544-1905-ND	1336.50	EP2S60F484C3
484-FBGA	60,440	334	1.2V	2,544,192	Fast	544-1906-ND◆	1215.00	EP2S60F484C3N
484-FBGA	60,440	334	1.2V	2,544,192	Medium	544-1133-ND	1045.00	EP2S60F484C4
484-FBGA	60,440	334	1.2V	2,544,192	Medium	544-1907-ND◆	950.00	EP2S60F484C4N
484-FBGA	60,440	334	1.2V	2,544,192	Slow	544-1134-ND	836.00	EP2S60F484C5
484-FBGA	60,440	334	1.2V	2,544,192	Slow	544-1908-ND◆	760.00	EP2S60F484C5N
484-FBGA	60,440	334	1.2V	2,544,192	Medium	544-1909-ND†	1336.50	EP2S60F484I4
484-FBGA	60,440	334	1.2V	2,544,192	Medium	544-1910-ND◆†	1215.00	EP2S60F484I4N
672-FBGA	60,440	492	1.2V	2,544,192	Fast	544-1911-ND	1457.50	EP2S60F672C3
672-FBGA	60,440	492	1.2V	2,544,192	Fast	544-1912-ND◆	1325.00	EP2S60F672C3N
672-FBGA	60,440	492	1.2V	2,544,192	Medium	544-1127-ND	1138.50	EP2S60F672C4
672-FBGA	60,440	492	1.2V	2,544,192	Medium	544-1913-ND◆	1035.00	EP2S60F672C4N
672-FBGA	60,440	492	1.2V	2,544,192	Slow	544-1128-ND	913.00	EP2S60F672C5
672-FBGA	60,440	492	1.2V	2,544,192	Slow	544-1914-ND◆	830.00	EP2S60F672C5N
672-FBGA	60,440	492	1.2V	2,544,192	Medium	544-1915-ND†	1457.50	EP2S60F672I4
672-FBGA	60,440	492	1.2V	2,544,192	Medium	544-1916-ND◆†	1325.00	EP2S60F672I4N
1020-FBGA	60,440	718	1.2V	2,544,192	Fast	544-1130-ND	1584.00	EP2S60F1020C3
1020-FBGA	60,440	718	1.2V	2,544,192	Medium	544-1131-ND	1237.50	EP2S60F1020C4
1020-FBGA	60,440	718	1.2V	2,544,192	Medium	544-1901-ND◆	1125.00	EP2S60F1020C4N
1020-FBGA	60,440	718	1.2V	2,544,192	Slow	544-1132-ND	990.00	EP2S60F1020C5
1020-FBGA	60,440	718	1.2V	2,544,192	Slow	544-1902-ND◆	900.00	EP2S60F1020C5N
1020-FBGA	60,440	718	1.2V	2,544,192	Medium	544-1903-ND†	1584.00	EP2S60F1020I4
1020-FBGA	60,440	718	1.2V	2,544,192	Medium	544-1904-ND◆†	1440.00	EP2S60F1020I4N
780-FBGA	90,960	534	1.2V	4,520,488	Medium	544-2167-ND	3179.00	EP2S90F780C4
780-FBGA	90,960	534	1.2V	4,520,488	Slow	544-2168-ND	2546.51	EP2S90F780C5
780-FBGA	90,960	534	1.2V	4,520,488	Slow	544-2169-ND◆	2315.00	EP2S90F780C5N
780-FBGA	90,960	534	1.2V	4,520,488	Medium	544-2170-ND†	4070.01	EP2S90F780I4
780-FBGA	90,960	534	1.2V	4,520,488	Medium	544-2171-ND◆†	3700.01	EP2S90F780I4N

◆ **RoHS Compliant** † Industrial Temperature: -40°C ~ 100°C ◊ Tube ▲ ***NEW!*** *(Continued)*

ALTERA FPGAs *(Cont.)*

Package	Gates	I/O Pins	Operating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
1020-FBGA	90,960	758	1.2V	4,520,488	Fast	544-1917-ND	4070.01	EP2S90F1020C3
1020-FBGA	90,960	758	1.2V	4,520,488	Medium	544-1411-ND	3179.00	EP2S90F1020C4
1020-FBGA	90,960	758	1.2V	4,520,488	Slow	544-1918-ND◆	2315.00	EP2S90F1020C5N
1020-FBGA	90,960	758	1.2V	4,520,488	Medium	544-1919-ND†	4070.01	EP2S90F1020I4
1020-FBGA	90,960	758	1.2V	4,520,488	Medium	544-1920-ND◆†	3700.01	EP2S90F1020I4N
1508-FBGA	90,960	902	1.2V	4,520,488	Fast	544-1412-ND	4311.99	EP2S90F1508C3
1508-FBGA	90,960	902	1.2V	4,520,488	Fast	544-1921-ND◆	3919.99	EP2S90F1508C3N
1508-FBGA	90,960	902	1.2V	4,520,488	Medium	544-1466-ND	3366.01	EP2S90F1508C4
1508-FBGA	90,960	902	1.2V	4,520,488	Slow	544-1467-ND	2694.99	EP2S90F1508C5
1508-FBGA	90,960	902	1.2V	4,520,488	Slow	544-1922-ND◆	2449.99	EP2S90F1508C5N
1508-FBGA	90,960	902	1.2V	4,520,488	Medium	544-1923-ND†	4311.99	EP2S90F1508I4
780-FBGA	132,540	1,126	1.2V	6,747,840	Medium	544-1461-ND	6297.50	EP2S130F780C4
780-FBGA	132,540	534	1.2V	6,747,840	Medium	544-1872-ND◆	5725.00	EP2S130F780C4N
780-FBGA	132,540	1,126	1.2V	6,747,840	Slow	544-1462-ND	4499.01	EP2S130F780C5
1020-FBGA	132,540	742	1.2V	6,747,840	Fast	544-2158-ND	7198.41	EP2S130F1020C3
1020-FBGA	132,540	742	1.2V	6,747,840	Fast	544-2159-ND◆	6544.01	EP2S130F1020C3N
1020-FBGA	132,540	742	1.2V	6,747,840	Medium	544-1413-ND	6297.50	EP2S130F1020C4
1020-FBGA	132,540	742	1.2V	6,747,840	Medium	544-1866-ND◆	5725.00	EP2S130F1020C4N
1020-FBGA	132,540	742	1.2V	6,747,840	Slow	544-1867-ND◆	4090.01	EP2S130F1020C5N
1020-FBGA	132,540	742	1.2V	6,747,840	Medium	544-1786-ND†	7198.41	EP2S130F1020I4
1020-FBGA	132,540	742	1.2V	6,747,840	Medium	544-1868-ND◆†	6544.01	EP2S130F1020I4N
1508-FBGA	132,540	1,126	1.2V	6,747,840	Fast	544-2160-ND	7673.61	EP2S130F1508C3
1508-FBGA	132,540	1,126	1.2V	6,747,840	Fast	544-1869-ND◆	6976.01	EP2S130F1508C3N
1508-FBGA	132,540	1,126	1.2V	6,747,840	Medium	544-1460-ND	6710.01	EP2S130F1508C4
1508-FBGA	132,540	1,126	1.2V	6,747,840	Medium	544-1870-ND◆	6100.01	EP2S130F1508C4N
1508-FBGA	132,540	1,126	1.2V	6,747,840	Slow	544-1414-ND	4796.01	EP2S130F1508C5
1508-FBGA	132,540	1,126	1.2V	6,747,840	Slow	544-1871-ND◆	4360.01	EP2S130F1508C5N
1508-FBGA	132,540	1,126	1.2V	6,747,840	Medium	544-2161-ND†	7673.61	EP2S130F1508I4
1020-FBGA	179,400	742	1.2V	9,383,040	Fast	544-1787-ND	10797.61	EP2S180F1020C3
1020-FBGA	179,400	742	1.2V	9,383,040	Fast	544-1883-ND◆	9816.01	EP2S180F1020C3N
1020-FBGA	179,400	742	1.2V	9,383,040	Medium	544-1415-ND	9443.49	EP2S180F1020C4
1020-FBGA	179,400	742	1.2V	9,383,040	Medium	544-1884-ND◆	8584.99	EP2S180F1020C4N
1020-FBGA	179,400	742	1.2V	9,383,040	Slow	544-1463-ND	6748.51	EP2S180F1020C5
1020-FBGA	179,400	742	1.2V	9,383,040	Slow	544-1885-ND◆	6135.01	EP2S180F1020C5N
1020-FBGA	179,400	742	1.2V	9,383,040	Medium	544-2162-ND†	10797.61	EP2S180F1020I4
1020-FBGA	179,400	742	1.2V	9,383,040	Medium	544-2163-ND◆†	9816.01	EP2S180F1020I4N
1508-FBGA	179,400	1,170	1.2V	9,383,040	Fast	544-2164-ND	11756.82	EP2S180F1508C3
1508-FBGA	179,400	1,170	1.2V	9,383,040	Fast	544-1886-ND◆	10688.02	EP2S180F1508C3N
1508-FBGA	179,400	1,170	1.2V	9,383,040	Medium	544-1416-ND	10285.01	EP2S180F1508C4
1508-FBGA	179,400	1,170	1.2V	9,383,040	Medium	544-1887-ND◆	9350.01	EP2S180F1508C4N
1508-FBGA	179,400	1,170	1.2V	9,383,040	Slow	544-1888-ND◆	6680.01	EP2S180F1508C5N
1508-FBGA	179,400	1,170	1.2V	9,383,040	Medium	544-2165-ND†	11756.82	EP2S180F1508I4
1508-FBGA	179,400	1,170	1.2V	9,383,040	Medium	544-2166-ND◆†	10688.02	EP2S180F1508I4N
STRATIX II GX								
780-FBGA	33,880	361	1.2V	1,369,728	Fast	544-1747-ND	814.00	EP2SGX30CF780C3
780-FBGA	33,880	361	1.2V	1,369,728	Fast	544-1926-ND◆	740.00	EP2SGX30CF780C3N
780-FBGA	33,880	361	1.2V	1,369,728	Fast	544-1751-ND	836.00	EP2SGX30DF780C3
780-FBGA	33,880	361	1.2V	1,369,728	Fast	544-1928-ND◆	760.00	EP2XGX30DF780C3N
780-FBGA	33,880	361	1.2V	1,369,728	Medium	544-1748-ND	638.00	EP2SGX30CF780C4
780-FBGA	33,880	361	1.2V	1,369,728	Medium	544-1927-ND◆	580.00	EP2SGX30CF780C4N
780-FBGA	33,880	361	1.2V	1,369,728	Medium	544-1752-ND	660.00	EP2SGX30DF780C4
780-FBGA	33,880	361	1.2V	1,369,728	Medium	544-1929-ND◆	600.00	EP2SGX30DF780C4N
780-FBGA	33,880	361	1.2V	1,369,728	Slow	544-1749-ND	517.00	EP2SGX30CF780C5
780-FBGA	33,880	361	1.2V	1,369,728	Slow	544-1750-ND◆	470.00	EP2SGX30CF780C5N
780-FBGA	33,880	361	1.2V	1,369,728	Slow	544-1753-ND	539.00	EP2SGX30DF780C5
780-FBGA	33,880	361	1.2V	1,369,728	Slow	544-1754-ND◆	490.00	EP2SGX30DF780C5N
780-FBGA	33,880	361	1.2V	1,369,728	Medium	544-2176-ND†	836.00	EP2SGX30DF780I4
780-FBGA	33,880	361	1.2V	1,369,728	Medium	544-2177-ND◆†	760.00	EP2SGX30DF780I4N
780-FBGA	60,440	364	1.2V	2,544,192	Fast	544-1755-ND	1479.50	EP2SGX60CF780C3
780-FBGA	60,440	364	1.2V	2,544,192	Fast	544-1930-ND◆	1345.00	EP2SGX60CF780C3N
780-FBGA	60,440	364	1.2V	2,544,192	Fast	544-1759-ND	1501.50	EP2SGX60DF780C3
780-FBGA	60,440	364	1.2V	2,544,192	Fast	544-1932-ND◆	1365.00	EP2SGX60DF780C3N
780-FBGA	60,440	364	1.2V	2,544,192	Medium	544-1756-ND	1160.50	EP2SGX60CF780C4
780-FBGA	60,440	364	1.2V	2,544,192	Medium	544-1931-ND◆	1055.00	EP2SGX60CF780C4N
780-FBGA	60,440	364	1.2V	2,544,192	Medium	544-1760-ND	1182.50	EP2SGX60DF780C4
780-FBGA	60,440	364	1.2V	2,544,192	Medium	544-1933-ND◆	1075.00	EP2SGX60DF780C4N
780-FBGA	60,440	364	1.2V	2,544,192	Slow	544-1757-ND	935.00	EP2SGX60CF780C5
780-FBGA	60,440	364	1.2V	2,544,192	Slow	544-1758-ND◆	850.00	EP2SGX60CF780C5N
780-FBGA	60,440	364	1.2V	2,544,192	Slow	544-1761-ND	957.00	EP2SGX60DF780C5
780-FBGA	60,440	364	1.2V	2,544,192	Slow	544-1762-ND◆	870.00	EP2SGX60DF780C5N
780-FBGA	60,440	364	1.2V	2,544,192	Medium	544-2178-ND†	1501.50	EP2SGX60DF780I4
780-FBGA	60,440	364	1.2V	2,544,192	Medium	544-2179-ND◆†	1365.00	EP2SGX60DF780I4N
1152-FBGA	60,440	534	1.2V	2,544,192	Fast	544-2180-ND	1650.00	EP2SGX60EF1152C3
1152-FBGA	60,440	534	1.2V	2,544,192	Fast	544-2181-ND◆	1500.00	EP2SGX60EF1152C3N
1152-FBGA	60,440	534	1.2V	2,544,192	Medium	544-2182-ND	1303.50	EP2SGX60EF1152C4
1152-FBGA	60,440	534	1.2V	2,544,192	Medium	544-2183-ND◆	1185.00	EP2SGX60EF1152C4N
1152-FBGA	60,440	534	1.2V	2,544,192	Slow	544-2184-ND	1056.00	EP2SGX60EF1152C5
1152-FBGA	60,440	534	1.2V	2,544,192	Slow	544-2185-ND◆	960.00	EP2SGX60EF1152C5N
1152-FBGA	60,440	534	1.2V	2,544,192	Medium	544-2186-ND†	1650.00	EP2SGX60EF1152I4
1152-FBGA	60,440	534	1.2V	2,544,192	Medium	544-2187-ND◆†	1500.00	EP2SGX60EF1152I4N
1152-FBGA	90,960	558	1.2V	4,520,448	Fast	544-1763-ND	4136.01	EP2SGX90EF1152C3ES
1152-FBGA	90,960	558	1.2V	4,520,448	Fast	544-1766-ND◆	3760.01	EP2SGX90EF1152C3N
1152-FBGA	90,960	558	1.2V	4,520,448	Medium	544-1764-ND	3245.00	EP2SGX90EF1152C4ES
1152-FBGA	90,960	558	1.2V	4,520,448	Medium	544-1767-ND◆	2950.00	EP2SGX90EF1152C4N
1152-FBGA	90,960	558	1.2V	4,520,448	Slow	544-1765-ND	2612.50	EP2SGX90EF1152C5ES
1152-FBGA	90,960	558	1.2V	4,520,448	Slow	544-1768-ND◆	2375.00	EP2SGX90EF1152C5N
1508-FBGA	90,960	650	1.2V	4,520,448	Fast	544-1769-ND	4400.00	EP2SGX90FF1508C3
1508-FBGA	90,960	650	1.2V	4,520,448	Fast	544-1772-ND◆	4000.00	EP2SGX90FF1508C3N
1508-FBGA	90,960	650	1.2V	4,520,448	Medium	544-1770-ND	3454.00	EP2SGX90FF1508C4
1508-FBGA	90,960	650	1.2V	4,520,448	Medium	544-1773-ND◆	3140.00	EP2SGX90FF1508C4N
1508-FBGA	90,960	650	1.2V	4,520,448	Slow	544-1771-ND	2783.00	EP2SGX90FF1508C5ES
1508-FBGA	90,960	650	1.2V	4,520,448	Slow	544-1774-ND◆	2530.00	EP2SGX90FF1508C5N
1508-FBGA	132,540	734	1.2V	6,747,840	Fast	544-1737-ND	7783.59	EP2SGX130GF1508C3
1508-FBGA	132,540	734	1.2V	6,747,840	Fast	544-1924-ND◆	7075.99	EP2SGX130GF1508C3N
1508-FBGA	132,540	734	1.2V	6,747,840	Medium	544-1738-ND	6820.02	EP2SGX130GF1508C4
1508-FBGA	132,540	734	1.2V	6,747,840	Medium	544-1925-ND◆	6200.02	EP2SGX130GF1508C4N
1508-FBGA	132,540	734	1.2V	6,747,840	Slow	544-1739-ND	4906.01	EP2SGX130GF1508C5
1508-FBGA	132,540	734	1.2V	6,747,840	Slow	544-1740-ND◆	4460.01	EP2SGX130GF1508C5N
1508-FBGA	132,540	734	1.2V	6,747,840	Medium	544-2174-ND†	7783.59	EP2SGX130GF1508I4
1508-FBGA	132,540	734	1.2V	6,747,840	Medium	544-2175-ND◆†	7075.99	EP2SGX130GF1508I4N
STRATIX III — RoHS Compliant								
780-FBGA	150,000	488	1.1V	7,280	Medium	544-2404-ND	2840.00	EP3SL150F780C3N
780-FBGA	150,000	488	1.1V	7,280	Slow	544-2403-ND	2184.99	EP3SL150F780C4N
780-FBGA	150,000	488	1.1V	7,280	Slow	544-2406-ND	3277.00	EP3SL150F780C4LNES
1152-FBGA	150,000	744	1.1V	7,280	Slow	544-2407-ND	2235.01	EP3SL150F1152C4N
1152-FBGA	150,000	744	1.1V	7,280	Medium	544-2408-ND	2905.00	EP3SL150F1152C3N
1152-FBGA	150,000	744	1.1V	7,280	Slow	544-2410-ND	3352.00	EP3SL150F11524LNES
FLEX 6000								
100-TQRF	10,000	71	3.3V	—	Slow	544-1271-ND	17.00	EPF6010ATC100-3
100-TQFP	10,000	71	3.3V	—	Slow	544-1950-ND◆	17.00	EPF6010ATC100-3N
144-TQFP	10,000	102	3.3V	—	Slow	544-2245-ND	23.00	EPF6010ATC144-3
100-TQFP	16,000	81	3.3V	—	Medium	544-2247-ND	32.00	EPF6016ATC100-2
100-TQFP	16,000	81	3.3V	—	Slow	544-1274-ND	23.00	EPF6016ATC100-3
144-TQFP	16,000	117	3.3V	—	Medium	544-1275-ND	33.50	EPF6016ATC144-2
144-TQFP	16,000	117	3.3V	—	Slow	544-1276-ND	24.00	EPF6016ATC144-3
144-TQFP	16,000	117	3.3V	—	Slow	544-1952-ND◆	24.00	EPF6016ATC144-3N
144-TQFP	16,000	117	5.0V	—	Medium	544-1281-ND	33.50	EPF6016TC144-2
144-TQFP	16,000	117	5.0V	—	Medium	544-1955-ND◆	33.50	EPF6016TC144-2N
144-TQFP	16,000	117	5.0V	—	Slow	544-1282-ND	23.95	EPF6016TC144-3
144-TQFP	16,000	117	5.0V	—	Slow	544-1956-ND◆	23.95	EPF6016TC144-3N
144-TQFP	16,000	117	5.0V	—	Slow	544-1283-ND†	33.50	EPF6016TI144-3
208-PQFP	16,000	171	3.3V	—	Fast	544-2246-ND	55.50	EPF6016AQC208-1
208-PQFP	16,000	171	3.3V	—	Medium	544-1272-ND	39.00	EPF6016AQC208-2
208-PQFP	16,000	171	3.3V	—	Slow	544-1273-ND	27.50	EPF6016AQC208-3
208-PQFP	16,000	171	3.3V	—	Slow	544-1951-ND◆	27.50	EPF6016AQC208-3N
208-PQFP	16,000	171	5.0V	—	Medium	544-1277-ND	39.00	EPF6016QC208-2
208-PQFP	16,000	171	5.0V	—	Medium	544-1953-ND◆	39.00	EPF6016QC208-2N
208-PQFP	16,000	171	5.0V	—	Slow	544-1278-ND	27.45	EPF6016QC208-3
208-PQFP	16,000	171	5.0V	—	Slow	544-1954-ND◆	27.45	EPF6016QC208-3N
240-PQFP	16,000	199	5.0V	—	Medium	544-1279-ND	42.00	EPF6016QC240-2
240-PQFP	16,000	199	5.0V	—	Slow	544-1280-ND	29.95	EPF6016QC240-3
144-TQFP	24,000	117	3.3V	—	Slow	544-1288-ND	35.95	EPF6024ATC144-3
208-PQFP	24,000	171	3.3V	—	Medium	544-1284-ND	56.50	EPF6024AQC208-2
208-PQFP	24,000	171	3.3V	—	Slow	544-1285-ND	40.50	EPF6024AQC208-3
208-PQFP	24,000	171	3.3V	—	Slow	544-1957-ND◆	40.50	EPF6024AQC208-3N
240-PQFP	24,000	199	3.3V	—	Medium	544-1286-ND	60.50	EPF6024AQC240-2
240-PQFP	24,000	199	3.3V	—	Slow	544-1287-ND	43.00	EPF6024AQC240-3
Flex 8000								
84-PLCC	2,500	68	5.0V	—	Medium	544-2250-5-ND◊	34.75	EPF8282ALC84-2
84-PLCC	2,500	68	5.0V	—	Slow	544-2251-5-ND◊	13.00	EPF8282ALC84-4
100-TQFP	2,500	78	5.0V	—	Medium	544-2252-ND	39.25	EPF8282ATC100-2
100-TQFP	2,500	78	5.0V	—	Slow	544-2253-ND	29.00	EPF8282ATC100-3
100-TQFP	2,500	78	5.0V	—	Slow	544-2254-ND	18.25	EPF8282ATC100-4
100-TQFP	2,500	78	5.0V	—	Slow	544-2255-ND◆	18.25	EPF8282ATC100-4N
84-PLCC	4,000	68	5.0V	—	Slow	544-2256-5-ND◊	39.75	EPF8452ALC84-3
84-PLCC	4,000	68	5.0V	—	Slow	544-2257-5-ND◊	25.00	EPF8452ALC84-4
100-TQFP	4,000	68	5.0V	—	Slow	544-2260-ND	29.50	EPF8452ATC100-4
100-TQFP	4,000	68	5.0V	—	Slow	544-1783-ND◆	29.50	EPF8452ATC100-4N
160-PQFP	4,000	120	5.0V	—	Slow	544-2258-ND	43.75	EPF8452AQC160-3
160-TQFP	4,000	120	5.0V	—	Slow	544-2259-ND	34.75	EPF8452AQC160-4
84-PLCC	6,000	68	5.0V	—	Slow	544-1958-ND	34.75	EPF8636ALC84-4
160-PQFP	6,000	118	5.0V	—	Slow	544-2261-ND	62.25	EPF8636AQC160-3
160-PQFP	6,000	118	5.0V	—	Slow	544-2262-ND	44.75	EPF8636AQC160-4
160-PQFP	8,000	120	5.0V	—	Slow	544-2263-ND	47.25	EPF8820AQC160-4
208-PQFP	8,000	152	5.0V	—	Slow	544-2264-ND	52.75	EPF8820AQC208-4
208-PQFP	12,000	148	5.0V	—	Slow	544-2248-ND	55.25	EPF81188AQC208-4
240-PQFP	16,000	181	5.0V	—	Medium	544-2249-ND	124.00	EPF81500AQC240-2
FLEX 10K								
84-PLCC	10,000	59	5.0V	6,144	Slow	544-2194-5-ND◊	54.00	EPF10K10LC84-3
84-PLCC	10,000	59	5.0V	6,144	Slow	544-1937-5-ND◊	35.50	EPF10K10LC84-4
84-PLCC	10,000	59	5.0V	6,144	Slow	544-1938-5-ND◆◊	35.50	EPF10K10LC84-4N
100-TQFP	10,000	66	3.3V	6,144	Slow	544-2193-ND	32.50	EPF10K10ATC100-3
144-TQFP	10,000	102	3.3V	6,144	Slow	544-1256-ND	37.00	EPF10K10ATC144-3
144-TQFP	10,000	102	3.3V	6,144	Slow	544-1936-ND†	52.00	EPF10K10ATI144-3
144-TQFP	10,000	102	5.0V	6,144	Slow	544-2199-ND	56.50	EPF10K10TC144-3
144-TQFP	10,000	102	5.0V	6,144	Slow	544-2200-ND◆	56.50	EPF10K10TC144-3N
144-TQFP	10,000	102	5.0V	6,144	Slow	544-2201-ND	36.50	EPF10K10TC144-4
144-TQFP	10,000	102	5.0V	6,144	Slow	544-2202-ND◆	36.50	EPF10K10TC144-4N
144-TQFP	10,000	102	5.0V	6,144	Slow	544-2203-ND†	51.00	EPF10K10TI144-4
144-TQFP	10,000	102	5.0V	6,144	Slow	544-2204-ND◆†	51.00	EPF10K10TI144-4N
208-PQFP	10,000	134	3.3V	6,144	Slow	544-1255-ND	40.00	EPF10K10AQC208-3
208-PQFP	10,000	134	5.0V	6,144	Slow	544-2195-ND	60.50	EPF10K10QC208-3
208-PQFP	10,000	134	5.0V	6,144	Slow	544-2196-ND	40.50	EPF10K10QC208-4
208-PQFP	10,000	134	5.0V	6,144	Slow	544-2197-ND◆	40.50	EPF10K10QC208-4N
208-PQFP	10,000	134	5.0V	6,144	Slow	544-2198-ND†	58.00	EPF10K10QI208-4
144-TQFP	20,000	102	5.0V	12,288	Slow	544-2216-ND	96.00	EPF10K20TC144-3
144-TQFP	20,000	102	5.0V	12,288	Slow	544-2217-ND◆	96.00	EPF10K20TC144-3N
144-TQFP	20,000	102	5.0V	12,288	Slow	544-2218-ND	63.00	EPF10K20TC144-4
144-TQFP	20,000	102	5.0V	12,288	Slow	544-2219-ND◆	63.00	EPF10K20TC144-4N
144-TQFP	20,000	102	5.0V	12,288	Slow	544-2220-ND†	89.50	EPF10K20TI144-4
144-TQFP	20,000	102	5.0V	12,288	Slow	544-2221-ND◆†	89.50	EPF10K20TI144-4N
208-RQFP	20,000	147	5.0V	12,288	Slow	544-2207-ND	117.00	EPF10K20RC208-3
208-RQFP	20,000	147	5.0V	12,288	Slow	544-2208-ND◆	117.00	EPF10K20RC208-3N
208-RQFP	20,000	147	5.0V	12,288	Slow	544-2209-ND	79.00	EPF10K20RC208-4
208-RQFP	20,000	147	5.0V	12,288	Slow	544-2210-ND◆	79.00	EPF10K20RC208-4N
208-RQFP	20,000	147	5.0V	12,288	Slow	544-2214-ND†	110.50	EPF10K20RI208-4
240-RQFP	20,000	189	5.0V	12,288	Slow	544-2211-ND	133.00	EPF10K20RC240-3
240-RQFP	20,000	189	5.0V	12,288	Slow	544-2212-ND	89.50	EPF10K20RC240-4
240-RQFP	20,000	189	5.0V	12,288	Slow	544-2213-ND◆	89.50	EPF10K20RC240-4N
240-RQFP	20,000	189	5.0V	12,288	Slow	544-2215-ND†	125.00	EPF10K20RI240-4
144-TQFP	30,000	102	3.3V	12,288	Fast	544-1263-ND	148.00	EPF10K30ATC144-1
144-TQFP	30,000	102	3.3V	12,288	Medium	544-1942-ND	98.00	EPF10K30ATC144-2
144-TQFP	30,000	102	3.3V	12,288	Slow	544-1264-ND	74.00	EPF10K30ATC144-3
144-TQFP	30,000	102	3.3V	12,288	Slow	544-1943-ND◆	74.00	EPF10K30ATC144-3N
144-TQFP	30,000	102	3.3V	12,288	Slow	544-1265-ND†	103.00	EPF10K30ATI144-3
144-TQFP	30,000	102	2.5V	24,576	Fast	544-2226-ND	117.60	EPF10K30ETC144-1
144-TQFP	30,000	102	2.5V	24,576	Slow	544-1267-ND	60.00	EPF10K30ETC144-3
144-TQFP	30,000	102	2.5V	24,576	Medium	544-1944-ND†	117.60	EPF10K30ETI144-2
208-PQFP	30,000	147	3.3V	12,288	Fast	544-2222-ND	153.00	EPF10K30AQC208-1
208-PQFP	30,000	147	3.3V	12,288	Medium	544-1257-ND	103.00	EPF10K30AQC208-2
208-PQFP	30,000	147	3.3V	12,288	Slow	544-1258-ND	76.00	EPF10K30AQC208-3
208-PQFP	30,000	147	3.3V	12,288	Slow	544-1939-ND◆	76.00	EPF10K30AQC208-3N
208-PQFP	30,000	147	2.5V	24,576	Fast	544-2224-ND	134.40	EPF10K30EQC208-1
208-PQFP	30,000	147	2.5V	24,576	Medium	544-2225-ND	91.20	EPF10K30EQC208-2
208-PQFP	30,000	147	2.5V	24,576	Slow	544-1266-ND	67.20	EPF10K30EQC208-3
208-RQFP	30,000	147	5.0V	12,288	Slow	544-2227-ND	195.20	EPF10K30RC208-3
208-RQFP	30,000	147	5.0V	12,288	Slow	544-2228-ND◆	195.20	EPF10K30RC208-3N
208-RQFP	30,000	147	5.0V	12,288	Slow	544-2229-ND	129.20	EPF10K30RC208-4

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C ◊ Tube ▲ ***NEW!*** *(Continued)*

ALTERA® FPGAs *(Cont.)*

Package	Gates	I/O Pins	Oper-ating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
208-RQFP	30,000	147	5.0V	12,288	Slow	544-2230-ND◆	129.20	EPF10K30RC208-4N
208-RQFP	30,000	147	5.0V	12,288	Slow	544-2233-ND†	180.00	EPF10K30RI208-4
240-PQFP	30,000	189	3.3V	12,288	Fast	544-1259-ND	165.00	EPF10K30AQC240-1
240-PQFP	30,000	189	3.3V	12,288	Medium	544-1260-ND	115.00	EPF10K30AQC240-2
240-PQFP	30,000	189	3.3V	12,288	Medium	544-1940-ND◆	115.00	EPF10K30AQC240-2N
240-PQFP	30,000	189	3.3V	12,288	Slow	544-1261-ND	84.00	EPF10K30AQC240-3
240-PQFP	30,000	189	3.3V	12,228	Slow	544-1941-ND◆	84.00	EPF10K30AQC240-3N
240-PQFP	30,000	189	3.3V	12,288	Slow	544-1262-ND†	117.50	EPF10K30AQI240-3
240-RQFP	30,000	189	5.0V	12,288	Slow	544-2231-ND	208.40	EPF10K30RC240-3
240-RQFP	30,000	189	5.0V	12,288	Slow	544-2232-ND	139.80	EPF10K30RC240-4
240-RQFP	30,000	189	5.0V	12,288	Slow	544-2234-ND†	195.20	EPF10K30RI240-4
256-FBGA	30,000	176	2.5V	24,576	Slow	544-2223-ND	74.40	EPF10K30EFC256-3
208-RQFP	40,000	147	5.0V	16,384	Slow	544-2235-ND	258.00	EPF10K40RC208-3
208-RQFP	40,000	147	5.0V	16,384	Slow	544-2236-ND	171.00	EPF10K40RC208-4
240-RQFP	40,000	189	5.0V	16,384	Slow	544-2237-ND	182.00	EPF10K40RC240-4
240-PQFP	50,000	189	2.5V	40,960	Fast	544-1268-ND	302.40	EPF10K50EQC240-1
240-PQFP	50,000	189	2.5V	40,960	Medium	544-1269-ND	206.40	EPF10K50EQC240-2
240-PQFP	50,000	189	2.5V	40,960	Slow	544-1270-ND	151.20	EPF10K50EQC240-3
240-PQFP	50,000	189	2.5V	40,960	Medium	544-1945-ND†	288.00	EPF10K50EQI240-2
240-RQFP	50,000	189	3.3V	20,480	Fast	544-1947-ND	362.00	EPF10K50VRC240-1
240-RQFP	50,000	189	3.3V	20,480	Slow	544-1948-ND	182.00	EPF10K50VRC240-3
240-RQFP	50,000	189	3.3V	20,480	Slow	544-1949-ND	163.00	EPF10K50VRC240-4
240-PQFP	50,000	189	3.3V	20,480	Slow	544-2242-ND	175.00	EPF10K50VQC240-3
240-PQFP	50,000	189	2.5V	40,960	Slow	544-2241-ND	134.40	EPF10K50SQC240-3
240-RQFP	50,000	189	5.0V	20,480	Slow	544-2238-ND	380.00	EPF10K50RC240-3
240-RQFP	50,000	189	5.0V	20,480	Slow	544-2239-ND	269.00	EPF10K50RC240-4
240-RQFP	50,000	189	5.0V	20,480	Slow	544-2240-ND†	364.00	EPF10K50RI240-4
356-BGA	50,000	274	3.3V	20,480	Slow	544-1946-ND	201.00	EPF10K50VBC356-3
240-RQFP	70,000	189	5.0V	18,432	Slow	544-2243-ND	543.00	EPF10K70RC240-3
240-RQFP	70,000	189	5.0V	18,432	Slow	544-2244-ND	361.00	EPF10K70RC240-4
240-RQFP	100,000	189	3.3V	24,576	Fast	544-1248-ND	564.00	EPF10K100ARC240-1
240-RQFP	100,000	189	3.3V	24,576	Medium	544-1249-ND	372.00	EPF10K100ARC240-2
240-RQFP	100,000	189	3.3V	24,576	Slow	544-1250-ND	278.00	EPF10K100ARC240-3
240-RQFP	100,000	189	3.3V	24,576	Slow	544-1251-ND†	388.00	EPF10K100ARI240-3
240-PQFP	100,000	189	2.5V	49,152	Fast	544-1252-ND	432.00	EPF10K100EQC240-1
240-PQFP	100,000	189	2.5V	49,152	Medium	544-1253-ND	292.80	EPF10K100EQC240-2
240-PQFP	100,000	189	2.5V	49,152	Slow	544-1254-ND	216.00	EPF10K100EQC240-3
256-FBGA	100,000	191	2.5V	49,152	Slow	544-2192-ND	220.80	EPF10K100EFC256-3
356-BGA	100,000	274	3.3V	24,576	Slow	544-2191-ND	333.00	EPF10K100ABC356-3
484-FBGA	100,000	338	2.5V	49,152	Fast	544-1935-ND	470.40	EPF10K100EFC484-1
240-PQFP	130,000	186	2.5V	65,536	Medium	544-2206-ND†	604.80	EPF10K130EQI240-2
484-FBGA	130,000	369	2.5V	65,536	Fast	544-2205-ND	688.80	EPF10K130EFC484-1

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C ◊ Tube ▲ ***NEW!***

CPLDs

Altera's Max families include the cost-optimized MAX 3000 and the high-performance MAX 7000 CPLD's, each of which offers densities, packages and speed grades to meet a variety of design needs. Altera's MAX CPLD's are non-volatile, single-chip solutions that do not require additional configuration devices. This means that they can be pre-programmed and reprogrammed using in-system programmability (ISP) and will retain the programming algorithm securely, even when the device is powered off.

Package	Macro Cells	Gates	Pin-Pin Delay (ns)	I/O Pins	Voltage (V)	Speed (NS)	Digi-Key Part No.	Price Each	Altera Part No.
						MAX II			
100-FBGA	192	240	4.7	80	3.3/2.5	4	544-1710-ND◆	8.50	EPM240F100C4N
100-FBGA	192	240	4.7	80	3.3/2.5	5	544-1709-ND◆	6.10	EPM240F100C5N
100-FBGA	192	240	4.7	80	3.3/2.5	5	544-1711-ND◆†	8.50	EPM240F100I5N
100-MBGA	192	240	4.7	80	3.3/2.5	4	544-1707-ND◆	8.30	EPM240M100C4N
100-MBGA	192	240	4.7	80	3.3/2.5	5	544-1706-ND◆	6.00	EPM240M100C5N
100-MBGA	192	240	4.7	80	3.3/2.5	5	544-1708-ND◆†	8.30	EPM240M100I5N
100-TQFP	192	240	4.7	80	3.3/2.5	3	544-1144-ND	13.09	EPM240T100C3
100-TQFP	192	240	4.7	80	3.3/2.5	3	544-1962-ND◆	11.90	EPM240T100C3N
100-TQFP	192	240	4.7	80	3.3/2.5	4	544-1145-ND	9.13	EPM240T100C4
100-TQFP	192	240	4.7	80	3.3/2.5	4	544-1963-ND◆	8.30	EPM240T100C4N
100-TQFP	192	240	4.7	80	3.3/2.5	5	544-1146-ND	6.60	EPM240T100C5
100-TQFP	192	240	4.7	80	3.3/2.5	5	544-1964-ND◆	6.00	EPM240T100C5N
100-TQFP	192	240	4.7	80	3.3/2.5	5	544-1965-ND†	9.13	EPM240T100I5
100-TQFP	192	240	4.7	80	3.3/2.5	5	544-2276-ND◆†	8.30	EPM240T100I5N
100-FBGA	192	240	4.7	80	1.8	5	544-1727-ND◆	6.10	EPM240GF100C5N
100 FBGA	192	240	4.7	80	1.8	5	544-1728-ND◆†	8.50	EPM240GF100I5N
100-MBGA	192	240	4.7	80	1.8	5	544-1726-ND◆	6.00	EPM240GM100C5N
100-TQFP	192	240	4.7	80	1.8	3	544-1147-ND	13.09	EPM240GT100C3
100-TQFP	192	240	4.7	80	1.8	3	544-1395-ND◆	11.90	EPM240GT100C3N
100-TQFP	192	240	4.7	80	1.8	4	544-1148-ND	9.13	EPM240GT100C4
100-TQFP	192	240	4.7	80	1.8	4	544-1396-ND◆	8.30	EPM240GT100C4N
100-TQFP	192	240	4.7	80	1.8	5	544-1149-ND	6.60	EPM240GT100C5
100-TQFP	192	240	4.7	80	1.8	5	544-1397-ND◆	6.00	EPM240GT100C5N
100-TQFP	192	240	4.7	80	1.8	5	544-2274-ND†	9.13	EPM240GT100I5
100-TQFP	192	240	4.7	80	1.8	5	544-2275-ND◆†	8.30	EPM240GT100I5N
100-FBGA	440	570	5.4	160	3.3/2.5	4	544-1716-ND◆	18.90	EPM570F100C4N
100-FBGA	440	570	5.4	160	3.3/2.5	5	544-1715-ND◆	13.50	EPM570F100C5N
100-FBGA	440	570	5.4	160	3.3/2.5	5	544-1717-ND◆†	18.90	EPM570F100I5N
256-FBGA	440	570	5.4	160	3.3/2.5	3	544-1294-ND	47.63	EPM570F256C3
256-FBGA	440	570	5.4	160	3.3/2.5	3	544-1312-ND◆	43.30	EPM570F256C3N
256-FBGA	440	570	5.4	160	3.3/2.5	4	544-1295-ND	33.33	EPM570F256C4
256-FBGA	440	570	5.4	160	3.3/2.5	4	544-1313-ND◆	30.30	EPM570F256C4N
256-FBGA	440	570	5.4	160	3.3/2.5	5	544-1296-ND	23.87	EPM570F256C5
256-FBGA	440	570	5.4	160	3.3/2.5	5	544-1314-ND◆	21.70	EPM570F256C5N
256-FBGA	440	570	5.4	160	3.3/2.5	5	544-1398-ND†	33.33	EPM570F256I5
256-FBGA	440	570	5.4	160	3.3/2.5	5	544-1399-ND◆†	30.30	EPM570F256I5N
100-MBGA	440	570	5.4	160	3.3/2.5	4	544-1713-ND◆	18.70	EPM570M100C4N
100-MBGA	440	570	5.4	160	3.3/2.5	5	544-1712-ND◆	13.30	EPM570M100C5N
100-MBGA	440	570	5.4	160	3.3/2.5	5	544-1714-ND◆†	18.70	EPM570M100I5N
256-MBGA	440	570	5.4	160	3.3/2.5	4	544-1719-ND◆	30.30	EPM570M256C4N
256-MBGA	440	570	5.4	160	3.3/2.5	5	544-1718-ND◆	21.70	EPM570M256C5N
256-MBGA	440	570	5.4	160	3.3/2.5	5	544-1720-ND◆†	30.30	EPM570M256I5N
100-TQFP	440	570	5.4	76	3.3/2.5	3	544-1297-ND	29.37	EPM570T100C3
100-TQFP	440	570	5.4	76	3.3/2.5	3	544-1315-ND◆	26.70	EPM570T100C3N
100-TQFP	440	570	5.4	76	3.3/2.5	4	544-1298-ND	20.57	EPM570T100C4
100-TQFP	440	570	5.4	76	3.3/2.5	4	544-1316-ND◆	18.70	EPM570T100C4N
100-TQFP	440	570	5.4	76	3.3/2.5	5	544-1299-ND	14.63	EPM570T100C5
100-TQFP	440	570	5.4	76	3.3/2.5	5	544-1317-ND◆	13.30	EPM570T100C5N
100-TQFP	440	570	5.4	76	3.3/2.5	5	544-2280-ND†	20.57	EPM570T100I5
100-TQFP	440	570	5.4	76	3.3/2.5	5	544-2281-ND◆†	18.70	EPM570T100I5N
144-TQFP	440	570	5.4	116	3.3/2.5	3	544-1300-ND	39.71	EPM570T144C3
144-TQFP	440	570	5.4	116	3.3/2.5	3	544-1318-ND◆	36.10	EPM570T144C3N
144-TQFP	440	570	5.4	116	3.3/2.5	4	544-1301-ND	27.83	EPM570T144C4
144-TQFP	440	570	5.4	116	3.3/2.5	4	544-1319-ND◆	25.30	EPM570T144C4N
144-TQFP	440	570	5.4	116	3.3/2.5	5	544-1302-ND	19.91	EPM570T144C5
144-TQFP	440	570	5.4	116	3.3/2.5	5	544-1320-ND◆	18.10	EPM570T144C5N
144-TQFP	440	570	5.4	116	3.3/2.5	5	544-2282-ND†	27.83	EPM570T144I5
144-TQFP	440	570	5.4	116	3.3/2.5	5	544-2283-ND◆†	25.30	EPM570T144I5N
100-FBGA	440	570	5.4	160	1.8	5	544-1730-ND◆	13.50	EPM570GF100C5N
256-FBGA	440	570	5.4	160	1.8	3	544-1303-ND	47.63	EPM570GF256C3
256-FBGA	440	570	5.4	160	1.8	3	544-1400-ND◆	43.30	EPM570GF256C3N
256-FBGA	440	570	5.4	160	1.8	4	544-1304-ND	33.33	EPM570GF256C4
256-FBGA	440	570	5.4	160	1.8	4	544-1401-ND◆	30.30	EPM570GF256C4N
256-FBGA	440	570	5.4	160	1.8	5	544-1305-ND	23.87	EPM570GF256C5
256-FBGA	440	570	5.4	160	1.8	5	544-1402-ND◆	21.70	EPM570GF256C5N
100-MBGA	440	570	5.4	160	1.8	5	544-1729-ND◆	13.30	EPM570GM100C5N
256-MBGA	440	570	5.4	160	1.8	5	544-1731-ND◆	21.70	EPM570GM256C5N
100-TQFP	440	570	5.4	76	1.8	3	544-1306-ND	29.37	EPM570GT100C3
100-TQFP	440	570	5.4	76	1.8	3	544-1403-ND◆	26.70	EPM570GT100C3N
100-TQFP	440	570	5.4	76	1.8	4	544-1307-ND	20.57	EPM570GT100C4
100-TQFP	440	570	5.4	76	1.8	4	544-1404-ND◆	18.70	EPM570GT100C4N
100-TQFP	440	570	5.4	76	1.8	5	544-1308-ND	14.63	EPM570GT100C5
100-TQFP	440	570	5.4	76	1.8	5	544-1405-ND◆	13.30	EPM570GT100C5N
144-TQFP	440	570	5.4	116	1.8	3	544-1309-ND	39.71	EPM570GT144C3
144-TQFP	440	570	5.4	116	1.8	3	544-1406-ND◆	36.10	EPM570GT144C3N
144-TQFP	440	570	5.4	116	1.8	4	544-1310-ND	27.83	EPM570GT144C4
144-TQFP	440	570	5.4	116	1.8	4	544-1407-ND◆	25.30	EPM570GT144C4N
144-TQFP	440	570	5.4	116	1.8	5	544-1311-ND	19.91	EPM570GT144C5
144-TQFP	440	570	5.4	116	1.8	5	544-1408-ND◆	18.10	EPM570GT144C5N
144-TQFP	980	1,270	6.2	116	3.3/2.5	3	544-1324-ND	49.94	EPM1270T144C3
144-TQFP	980	1,270	6.2	116	3.3/2.5	5	544-1143-ND	24.97	EPM1270T144C5
144-TQFP	980	1,270	6.2	116	3.3/2.5	5	544-1388-ND†	34.98	EPM1270T144I5
144-TQFP	980	1,270	6.2	212	3.3/2.5	5	544-1652-ND◆†	31.80	EPM1270T144I5N
256-FBGA	980	1,270	6.2	212	3.3/2.5	3	544-1321-ND	62.04	EPM1270F256C3
256-FBGA	980	1,270	6.2	212	3.3/2.5	3	544-1338-ND◆	56.40	EPM1270F256C3N
256-FBGA	980	1,270	6.2	212	3.3/2.5	4	544-1140-ND	43.45	EPM1270F256C4
256-FBGA	980	1,270	6.2	212	3.3/2.5	4	544-1337-ND◆	39.50	EPM1270F256C4N
256-FBGA	980	1,270	6.2	212	3.3/2.5	5	544-1141-ND	31.02	EPM1270F256C5
256-FBGA	980	1,270	6.2	212	3.3/2.5	5	544-1336-ND◆	28.20	EPM1270F256C5N
256-FBGA	980	1,270	6.2	212	3.3/2.5	5	544-1381-ND†	43.45	EPM1270F256I5
256-FBGA	980	1,270	6.2	212	3.3/2.5	5	544-1675-ND◆†	39.50	EPM1270F256I5N
256-MBGA	980	1,270	6.2	212	3.3/2.5	4	544-1722-ND◆	39.50	EPM1270M256C4N
256-MBGA	980	1,270	6.2	212	3.3/2.5	5	544-1721-ND◆	28.20	EPM1270M256C5N
256-MBGA	980	1,270	6.2	212	3.3/2.5	5	544-1723-ND◆†	39.50	EPM1270M256I5N
256-TQFP	980	1,270	6.2	116	3.3/2.5	3	544-1335-ND◆	45.40	EPM1270T144C3N
256-TQFP	980	1,270	6.2	116	3.3/2.5	4	544-1334-ND◆	31.80	EPM1270T144C4N
256-TQFP	980	1,270	6.2	116	3.3/2.5	5	544-1333-ND◆	22.70	EPM1270T144C5N
256-FBGA	980	1,270	6.2	212	1.8	3	544-1327-ND	62.04	EPM1270GF256C3
256-FBGA	980	1,270	6.2	212	1.8	3	544-1382-ND◆	56.40	EPM1270GF256C3N
256-FBGA	980	1,270	6.2	212	1.8	4	544-1328-ND	43.45	EPM1270GF256C4
256-FBGA	980	1,270	6.2	212	1.8	4	544-1383-ND◆	39.50	EPM1270GF256C4N
256-FBGA	980	1,270	6.2	212	1.8	5	544-1329-ND	31.02	EPM1270GF256C5
256-FBGA	980	1,270	6.2	212	1.8	5	544-1384-ND◆	28.20	EPM1270GF256C5N
256-FBGA	980	1,270	6.2	212	1.8	5	544-2265-ND†	43.45	EPM1270GF256I5
256-FBGA	980	1,270	6.2	212	1.8	5	544-2266-ND◆†	39.50	EPM1270GF256I5N
256-MBGA	980	1,270	6.2	212	1.8	5	544-1732-ND◆	28.20	EPM1270GM256C5N
144-TQFP	980	1,270	6.2	116	1.8	3	544-1330-ND	49.94	EPM1270GT144C3
144-TQFP	980	1,270	6.2	116	1.8	3	544-1385-ND◆	45.40	EPM1270GT144C3N
144-TQFP	980	1,270	6.2	116	1.8	4	544-1331-ND	34.98	EPM1270GT144C4
144-TQFP	980	1,270	6.2	116	1.8	4	544-1386-ND◆	31.80	EPM1270GT144C4N
144-TQFP	980	1,270	6.2	116	1.8	5	544-1332-ND	24.97	EPM1270GT144C5
144-TQFP	980	1,270	6.2	116	1.8	5	544-1387-ND◆	22.70	EPM1270GT144C5N
256-FBGA	1,700	2,210	7.0	204	3.3/2.5	3	544-1341-ND	69.85	EPM2210F256C3
256-FBGA	1,700	2,210	7.0	204	3.3/2.5	3	544-1356-ND◆	63.50	EPM2210F256C3N
256-FBGA	1,700	2,210	7.0	204	3.3/2.5	4	544-1340-ND	48.84	EPM2210F256C4
256-FBGA	1,700	2,210	7.0	204	3.3/2.5	4	544-1355-ND◆	44.40	EPM2210F256C4N
256-FBGA	1,700	2,210	7.0	204	3.3/2.5	5	544-1339-ND	34.87	EPM2210F256C5
256-FBGA	1,700	2,210	7.0	204	3.3/2.5	5	544-1354-ND◆	31.70	EPM2210F256C5N
256-FBGA	1,700	2,210	7.0	204	3.3/2.5	5	544-2267-ND†	48.84	EPM2210F256I5
256-FBGA	1,700	2,210	7.0	204	3.3/2.5	5	544-2268-ND◆†	44.40	EPM2210F256I5N
324-FBGA	1,700	2,210	7.0	272	3.3/2.5	3	544-1344-ND	79.64	EPM2210F324C3
324-FBGA	1,700	2,210	7.0	272	3.3/2.5	3	544-1959-ND◆	72.40	EPM2210F324C3N
324-FBGA	1,700	2,210	7.0	272	3.3/2.5	4	544-1343-ND	55.66	EPM2210F324C4
324-FBGA	1,700	2,210	7.0	272	3.3/2.5	4	544-1960-ND◆	50.60	EPM2210F324C4N
324-FBGA	1,700	2,210	7.0	272	3.3/2.5	5	544-1342-ND	39.82	EPM2210F324C5
324-FBGA	1,700	2,210	7.0	272	3.3/2.5	5	544-1961-ND◆	36.20	EPM2210F324C5N
324-FBGA	1,700	2,210	7.0	272	3.3/2.5	5	544-2269-ND†	55.66	EPM2210F324I5
324-FBGA	1,700	2,210	7.0	272	3.3/2.5	5	544-2270-ND◆†	50.60	EPM2210F324I5N
256-FBGA	1,700	2,210	7.0	204	1.8	3	544-1350-ND	69.85	EPM2210GF256C3
256-FBGA	1,700	2,210	7.0	204	1.8	3	544-1389-ND◆	63.50	EPM2210GF256C3N
256-FBGA	1,700	2,210	7.0	204	1.8	4	544-1349-ND	48.84	EPM2210GF256C4
256-FBGA	1,700	2,210	7.0	204	1.8	4	544-1390-ND◆	44.40	EPM2210GF256C4N
256-FBGA	1,700	2,210	7.0	204	1.8	5	544-1348-ND	34.87	EPM2210GF256C5
256-FBGA	1,700	2,210	7.0	204	1.8	5	544-1391-ND◆	31.70	EPM2210GF256C5N
256-FBGA	1,700	2,210	7.0	204	1.8	5	544-2271-ND†	48.84	EPM2210GF256I5
324-FBGA	1,700	2,210	7.0	272	1.8	3	544-1357-ND	79.64	EPM2210GF324C3
324-FBFA	1,700	2,210	7.0	272	1.8	3	544-1392-ND◆	72.40	EPM2210GF324C3N

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C * Tube

‡ Perform a complete thermal analysis before committing a design to this device package. For more information, see the *Operating Requirements for Altera Devices Data Sheet,* available at www.digikey.com. *(Continued)*

ALTERA CPLDs *(Cont.)*

Package	Macro Cells	Gates	Pin-Pin Delay (ns)	I/O Pins	Voltage (V)	Speed (NS)	Digi-Key Part No.	Price Each	Altera Part No.
324-FBGA	1,700	2,210	7.0	272	1.8	4	544-1358-ND	55.66	EPM2210GF324C4
324-FBFA	1,700	2,210	7.0	272	1.8	4	544-1393-ND◆	50.60	EPM2210GF324C4N
324-FBGA	1,700	2,210	7.0	272	1.8	5	544-1359-ND	39.82	EPM2210GF324C5
324-FBFA	1,700	2,210	7.0	272	1.8	5	544-1394-ND◆	36.20	EPM2210GF324C5N
324-FBGA	1,700	2,210	7.0	272	1.8	5	544-2272-ND†	55.66	EPM2210GF324I5
324-FBGA	1,700	2,210	7.0	272	1.8	5	544-2273-ND◆†	50.60	EPM2210GF324I5N
MAX IIZ — RoHS Compliant									
68-MBG	192	240	7.5	54	1.8	6	544-2445-ND	8.30	EPM240ZM68C6N
68-MBG	192	240	7.5	54	1.8	7	544-2446-ND	6.90	EPM240ZM68C7N
100-MBGA	192	240	7.5	80	1.8	6	544-2447-ND	8.70	EPM240ZM100C6N
100-MBGA	192	240	7.5	80	1.8	7	544-2448-ND	7.20	EPM240ZM100C7N
100-MBGA	440	570	8.7	76	1.8	6	544-2449-ND	19.20	EPM570ZM100C6N
100-MBGA	440	570	8.7	76	1.8	7	544-2450-ND	16.00	EPM570ZM100C7N
144-MBGA	440	570	8.7	116	1.8	6	544-2451-ND	23.90	EPM570ZM144C6N
144-MBGA	440	570	8.7	116	1.8	7	544-2452-ND	19.90	EPM570ZM144C7N
256-MBGA	440	570	8.7	160	1.8	6	544-2453-ND	31.20	EPM570ZM256C6N
256-MBGA	440	570	8.7	160	1.8	7	544-2454-ND	26.00	EPM570ZM256C7N
MAX 3000A									
44-PLCC	32	600	4.5	34	3.3	4	544-1967-ND	1.65	EPM3032ALC44-4
44-PLCC	32	600	4.5	34	3.3	10	544-1150-5-ND*	1.20	EPM3032ALC44-10
44-PLCC	32	600	4.5	34	3.3	10	544-1966-ND◆	1.20	EPM3032ALC44-10N
44-TQFP	32	600	4.5	34	3.3	4	544-1152-ND	2.40	EPM3032ATC44-4
44-TQFP	32	600	4.5	34	3.3	4	544-1969-ND◆	2.40	EPM3032ATC44-4N
44-TQFP	32	600	4.5	34	3.3	7	544-1153-ND	1.45	EPM3032ATC44-7
44-TQFP	32	600	4.5	34	3.3	7	544-1970-ND◆	1.45	EPM3032ATC44-7N
44-TQFP	32	600	4.5	34	3.3	10	544-1151-ND	1.40	EPM3032ATC44-10
44-TQFP	32	600	4.5	34	3.3	10	544-1968-ND◆	1.40	EPM3032ATC44-10N
44-TQFP	32	600	4.5	34	3.3	10	544-1154-ND†	1.45	EPM3032ATI44-10
44-TQFP	32	600	4.5	34	3.3	10	544-1971-ND◆†	1.45	EPM3032ATI44-10N
44-PLCC	64	1,250	4.5	34	3.3	4	544-1973-ND	4.85	EPM3064ALC44-4
44-PLCC	64	1,250	4.5	34	3.3	10	544-1155-5-ND*	2.10	EPM3064ALC44-10
44-PLCC	64	1,250	4.5	34	3.3	10	544-1972-ND◆	2.10	EPM3064ALC44-10N
44-TQFP	64	1,250	4.5	34	3.3	4	544-1160-ND	5.35	EPM3064ATC44-4
44-TQFP	64	1,250	4.5	34	3.3	4	544-1978-ND◆	5.35	EPM3064ATC44-4N
44-TQFP	64	1,250	4.5	34	3.3	7	544-1161-ND	2.90	EPM3064ATC44-7
44-TQFP	64	1,250	4.5	34	3.3	7	544-1979-ND◆	2.90	EPM3064ATC44-7N
44-TQFP	64	1,250	4.5	34	3.3	10	544-1159-ND	2.55	EPM3064ATC44-10
44-TQFP	64	1,250	4.5	34	3.3	10	544-1977-ND◆	2.55	EPM3064ATC44-10N
44-TQFP	64	1,250	4.5	34	3.3	10	544-1162-ND†	2.90	EPM3064ATI44-10
44-TQFP	64	1,250	4.5	34	3.3	10	544-1980-ND◆†	2.90	EPM3064ATI44-10N
100-TQFP	64	1,250	4.5	66	3.3	4	544-1157-ND	5.90	EPM3064ATC100-4
100-TQFP	64	1,250	4.5	66	3.3	4	544-1975-ND◆	5.90	EPM3064ATC100-4N
100-TQFP	64	1,250	4.5	66	3.3	7	544-1158-ND	3.75	EPM3064ATC100-7
100-TQFP	64	1,250	4.5	66	3.3	7	544-1976-ND◆	3.75	EPM3064ATC100-7N
100-TQFP	64	1,250	4.5	66	3.3	10	544-1156-ND	3.10	EPM3064ATC100-10
100-TQFP	64	1,250	4.5	66	3.3	10	544-1974-ND◆	3.10	EPM3064ATC100-10N
100-TQFP	64	1,250	4.5	66	3.3	10	544-2277-ND†	3.75	EPM3064ATI100-10
100-TQFP	64	1,250	4.5	66	3.3	10	544-2278-ND◆†	3.75	EPM3064ATI100-10N
100-TQFP	128	2,500	5.0	80	3.3	5	544-1164-ND	18.75	EPM3128ATC100-5
100-TQFP	128	2,500	5.0	80	3.3	5	544-1982-ND◆	18.75	EPM3128ATC100-5N
100-TQFP	128	2,500	5.0	80	3.3	7	544-1165-ND	11.75	EPM3128ATC100-7
100-TQFP	128	2,500	5.0	80	3.3	7	544-1983-ND◆	11.75	EPM3128ATC100-7N
100-TQFP	128	2,500	5.0	80	3.3	10	544-1163-ND	8.60	EPM3128ATC100-10
100-TQFP	128	2,500	5.0	80	3.3	10	544-1981-ND◆	8.60	EPM3128ATC100-10N
100-TQFP	128	2,500	5.0	80	3.3	10	544-1169-ND†	11.75	EPM3128ATI100-10
100-TQFP	128	2,500	5.0	80	3.3	10	544-1987-ND◆†	11.75	EPM3128ATI100-10N
144-TQFP	128	2,500	5.0	96	3.3	5	544-1167-ND	20.00	EPM3128ATC144-5
144-TQFP	128	2,500	5.0	96	3.3	5	544-1985-ND◆	20.00	EPM3128ATC144-5N
144-TQFP	128	2,500	5.0	96	3.3	7	544-1168-ND	12.75	EPM3128ATC144-7
144-TQFP	128	2,500	5.0	96	3.3	7	544-1986-ND◆	12.75	EPM3128ATC144-7N
144-TQFP	128	2,500	5.0	96	3.3	10	544-1166-ND	9.20	EPM3128ATC144-10
144-TQFP	128	2,500	5.0	96	3.3	10	544-1984-ND◆	9.20	EPM3128ATC144-10N
144-TQFP	256	5,000	7.5	116	3.3	7	544-1173-ND	22.75	EPM3256ATC144-7
144-TQFP	256	5,000	7.5	116	3.3	7	544-1991-ND◆	22.75	EPM3256ATC144-7N
144-TQFP	256	5,000	7.5	116	3.3	10	544-1172-ND	19.25	EPM3256ATC144-10
144-TQFP	256	5,000	7.5	116	3.3	10	544-1990-ND◆	19.25	EPM3256ATC144-10N
144-TQFP	256	5,000	7.5	116	3.3	10	544-1174-ND†	22.75	EPM3256ATI144-10
144-TQFP	256	5,000	7.5	116	3.3	10	544-1992-ND◆†	22.75	EPM3256ATI144-10N
208-PQFP	256	5,000	7.5	158	3.3	7	544-1171-ND	26.00	EPM3256AQC208-7
208-PQFP	256	5,000	7.5	158	3.3	7	544-1989-ND◆	26.00	EPM3256AQC208-7N
208-PQFP	256	5,000	7.5	158	3.3	10	544-1170-ND	20.00	EPM3256AQC208-10
208-PQFP	256	5,000	7.5	158	3.3	10	544-1988-ND◆	20.00	EPM3256AQC208-10N
208-PQFP	512	10,000	7.5	172	3.3	7	544-1176-ND	55.00	EPM3512AQC208-7
208-PQFP	512	10,000	7.5	172	3.3	10	544-1175-ND	42.50	EPM3512AQC208-10
208-PQFP	512	10,000	7.5	172	3.3	10	544-1994-ND◆	42.50	EPM3512AQC208-10N
256-FBGA	512	10,000	7.5	208	3.3	10	544-1993-ND†	70.00	EPM3512AFI256-10
256-FBGA	512	10,000	7.5	208	3.3	10	544-2279-ND	54.00	EPM3512AFC256-10
MAX 7000									
44-PLCC	32	600	5.0	36	5.0	7	544-1183-5-ND*	8.40	EPM7032SLC44-7
44-PLCC	36	600	5.0	36	5.0	7	544-2002-ND◆	8.40	EPM7032SLC44-7N
44-PLCC	32	600	5.0	36	5.0	10	544-1182-5-ND*	6.00	EPM7032SLC44-10
44-PLCC	36	600	5.0	36	5.0	10	544-2001-ND◆	6.00	EPM7032SLC44-10N
44-PLCC	32	600	6.0	36	5.0	6	544-2288-5-ND*	36.90	EPM7032LC44-6
44-PLCC	32	600	6.0	36	5.0	7	544-2289-5-ND*	20.20	EPM7032LC44-7
44-PLCC	32	600	6.0	36	5.0	10	544-2284-5-ND*	12.90	EPM7032LC44-10
44-PLCC	32	600	6.0	36	5.0	12	544-2285-5-ND*	10.45	EPM7032LC44-12
44-PLCC	32	600	6.0	36	5.0	15	544-2286-5-ND*	7.55	EPM7032LC44-15
44-PLCC	32	600	6.0	36	5.0	15	544-2287-5-ND*	7.55	EPM7032LC44-15T
44-PLCC	32	600	5.0	36	5.0	7	544-1184-5-ND†*	10.80	EPM7032SLI44-7
44-PLCC	36	600	5.0	36	5.0	7	544-2003-ND◆†	10.80	EPM7032SLI44-7N
44-PLCC	32	600	6.0	36	5.0	12	544-2290-5-ND†*	19.30	EPM7032LI44-12
44-PLCC	32	600	6.0	36	5.0	15	544-2291-5-ND†*	14.70	EPM7032LI44-15
44-TQFP	32	600	5.0	36	5.0	5	544-2293-ND	20.50	EPM7032STC44-5
44-TQFP	32	600	5.0	36	5.0	7	544-1186-ND	8.40	EPM7032STC44-7
44-TQFP	36	600	5.0	36	5.0	7	544-2005-ND◆	8.40	EPM7032STC44-7N
44-TQFP	32	600	5.0	36	5.0	10	544-1185-ND	6.00	EPM7032STC44-10
44-TQFP	36	600	5.0	36	5.0	10	544-2004-ND◆	6.00	EPM7032STC44-10N
44-TQFP	32	600	6.0	36	5.0	15	544-2294-ND	11.75	EPM7032TC44-15
44-TQFP	32	600	5.0	36	5.0	7	544-1187-ND†	10.80	EPM7032STI44-7
44-TQFP	36	600	5.0	36	5.0	7	544-2006-ND◆†	10.80	EPM7032STI44-7N
44-PQFP	32	600	6.0	36	5.0	15	544-2292-ND	11.75	EPM7032QC44-15
44-PLCC	64	1,250	5.0	68	5.0	5	544-2013-5-ND*	37.00	EPM7064SLC44-5
44-PLCC	64	1,250	5.0	36	5.0	7	544-1196-5-ND*	18.60	EPM7064SLC44-7
44-PLCC	64	1,250	5.0	68	5.0	7	544-2014-ND◆	18.60	EPM7064SLC44-7N
44-PLCC	64	1,250	5.0	36	5.0	10	544-1195-5-ND*	8.40	EPM7064SLC44-10
44-PLCC	64	1,250	5.0	68	5.0	10	544-2012-ND◆	8.40	EPM7064SLC44-10N
44-PLCC	64	1,250	6.0	68	5.0	7	544-2299-5-ND*	25.90	EPM7064LC44-7
44-PLCC	64	1,250	6.0	68	5.0	10	544-2297-5-ND*	18.40	EPM7064LC44-10
44-PLCC	64	1,250	6.0	68	5.0	15	544-2298-5-ND*	10.45	EPM7064LC44-15
44-PLCC	64	1,250	5.0	68	5.0	7	544-2016-5-ND†*	24.00	EPM7064SLI44-7
44-PLCC	64	1,250	5.0	68	5.0	7	544-2017-ND◆†	24.00	EPM7064SLI44-7N
44-PLCC	64	1,250	6.0	68	5.0	15	544-1784-ND†	16.30	EPM7064LI44-15
44-TQFP	64	1,250	6.0	68	2.5	3	544-2296-ND	29.40	EPM7064BTC44-3
44-TQFP	64	1,250	5.0	68	5.0	5	544-2313-ND	50.00	EPM7064STC44-5
44-TQFP	64	1,250	5.0	68	5.0	7	544-2021-ND	25.00	EPM7064STC44-7
44-TQFP	64	1,250	5.0	68	5.0	7	544-2022-ND◆	25.00	EPM7064STC44-7N
44-TQFP	64	1,250	5.0	36	5.0	10	544-1200-ND	7.50	EPM7064STC44-10
44-TQFP	64	1,250	5.0	68	5.0	10	544-2020-ND◆	7.50	EPM7064STC44-10N
44-TQFP	64	1,250	5.0	68	5.0	7	544-2023-ND†	32.50	EPM7064STI44-7
44-TQFP	64	1,250	5.0	68	5.0	7	544-2024-ND◆†	32.50	EPM7064STI44-7N
68-PLCC	64	1,250	6.0	68	5.0	7	544-2303-5-ND*	40.60	EPM7064LC68-7
68-PLCC	64	1,250	6.0	68	5.0	10	544-2300-5-ND*	29.50	EPM7064LC68-10
68-PLCC	64	1,250	6.0	68	5.0	12	544-2301-5-ND*	24.00	EPM7064LC68-12
68-PLCC	64	1,250	6.0	68	5.0	15	544-2302-5-ND*	20.20	EPM7064LC68-15
68-PLCC	64	1,250	6.0	68	5.0	15	544-2307-5-ND†*	26.60	EPM7064LI68-15
84-PLCC	64	1,250	5.0	68	5.0	6	544-2310-5-ND*	28.00	EPM7064SLC84-6
84-PLCC	64	1,250	5.0	68	5.0	7	544-1198-5-ND*	21.00	EPM7064SLC84-7
84-PLCC	64	1,250	5.0	68	5.0	10	544-1197-5-ND*	15.25	EPM7064SLC84-10
84-PLCC	64	1,250	5.0	68	5.0	10	544-2015-ND◆	15.25	EPM7064SLC84-10N
84-PLCC	64	1,250	6.0	68	5.0	7	544-2306-5-ND*	48.00	EPM7064LC84-7
84-PLCC	64	1,250	6.0	68	5.0	10	544-2304-5-ND*	35.10	EPM7064LC84-10
84-PLCC	64	1,250	6.0	68	5.0	15	544-2305-5-ND*	24.00	EPM7064LC84-15
84-PLCC	64	1,250	5.0	68	5.0	7	544-2018-ND◆†	27.00	EPM7064SLI84-7N
84-PLCC	64	1,250	6.0	68	5.0	15	544-2308-5-ND†*	31.40	EPM7064LI84-15
100-PQFP	64	1,250	6.0	68	5.0	15	544-2309-5-ND*	29.50	EPM7064QC100-15
100-TQFP	64	1,250	5.0	68	5.0	5	544-2311-ND	64.50	EPM7064STC100-5
100-TQFP	64	1,250	5.0	68	5.0	7	544-2312-ND	40.00	EPM7064STC100-7
100-TQFP	64	1,250	5.0	68	5.0	10	544-1199-ND	11.20	EPM7064STC100-10
100-TQFP	64	1,250	5.0	68	5.0	10	544-2019-ND◆	11.20	EPM7064STC100-10N
100-TQFP	64	1,250	5.0	68	5.0	7	544-2314-ND†	52.00	EPM7064STI100-7
100-TQFP	64	1,250	5.0	68	5.0	7	544-2315-ND◆†	52.00	EPM7064STI100-7N
84-PLCC	128	2,500	7.5	100	5.0	7	544-2321-5-ND*	103.20	EPM7128ELC84-7
84-PLCC	128	2,500	7.5	100	5.0	10	544-2317-5-ND*	64.40	EPM7128ELC84-10
84-PLCC	128	2,500	7.5	100	5.0	12	544-2318-5-ND*	60.80	EPM7128ELC84-12
84-PLCC	128	2,500	7.5	100	5.0	15	544-2319-5-ND*	40.60	EPM7128ELC84-15
84-PLCC	128	2,500	7.5	100	5.0	20	544-2320-5-ND*	36.80	EPM7128ELC84-20
84-PLCC	128	2,500	7.5	100	5.0	20	544-2322-5-ND†*	55.40	EPM7128ELI84-20
84-PLCC	128	2,500	6.0	100	5.0	6	544-2035-ND	55.50	EPM7128SLC84-6
84-PLCC	128	2,500	6.0	100	5.0	7	544-2325-5-ND*	42.00	EPM7128SLC84-7
84-PLCC	128	2,500	6.0	100	5.0	7	544-2326-5-ND◆*	42.00	EPM7128SLC84-7N
84-PLCC	128	2,500	6.0	68	5.0	10	544-1207-5-ND*	30.50	EPM7128SLC84-10
84-PLCC	128	2,500	6.0	100	5.0	10	544-2033-5-ND◆*	30.50	EPM7128SLC84-10N
84-PLCC	128	2,500	6.0	68	5.0	15	544-1208-5-ND*	19.00	EPM7128SLC84-15
84-PLCC	128	2,500	6.0	100	5.0	15	544-2034-ND◆	19.00	EPM7128SLC84-15N
84-PLCC	128	2,500	6.0	100	5.0	10	544-2036-ND†	39.50	EPM7128SLI84-10
100-PQFP	128	2,500	7.5	100	5.0	15	544-2323-5-ND*	55.40	EPM7128EQC100-15
100-PQFP	128	2,500	7.5	100	5.0	15	544-2324-5-ND†*	84.80	EPM7128EQI100-15
100-PQFP	128	2,500	6.0	100	5.0	6	544-2039-ND	76.50	EPM7128SQC100-6
100-PQFP	128	2,500	6.0	100	5.0	7	544-2040-ND	57.50	EPM7128SQC100-7
100-PQFP	128	2,500	6.0	100	5.0	7	544-2041-ND◆	57.50	EPM7128SQC100-7N
100-PQFP	128	2,500	6.0	84	5.0	10	544-1209-ND	40.50	EPM7128SQC100-10
100-PQFP	128	2,500	6.0	100	5.0	10	544-2037-ND◆	40.50	EPM7128SQC100-10N
100-PQFP	128	2,500	6.0	84	5.0	15	544-1210-ND	24.00	EPM7128SQC100-15
100-PQFP	128	2,500	6.0	100	5.0	15	544-2038-ND◆	24.00	EPM7128SQC100-15N
100-PQFP	128	2,500	6.0	100	5.0	10	544-2329-ND†	53.00	EPM7128SQI100-10
100-PQFP	128	2,500	6.0	100	5.0	10	544-2330-ND◆†	53.00	EPM7128SQI100-10N
100-TQFP	128	2,500	7.5	100	2.5	4	544-2032-ND	43.20	EPM7128BTC100-4
100-TQFP	128	2,500	6.0	100	5.0	6	544-2331-ND	81.50	EPM7128STC100-6
100-TQFP	100	2,500	6.0	100	5.0	7	544-1785-ND	61.00	EPM7128STC100-7
100-TQFP	128	2,500	6.0	100	5.0	7	544-2332-ND◆	61.00	EPM7128STC100-7N
100-TQFP	128	2,500	6.0	84‡	5.0	10	544-1211-ND	44.00	EPM7128STC100-10
100-TQFP	128	2,500	6.0	100	5.0	10	544-2045-ND◆	44.00	EPM7128STC100-10N
100-TQFP	128	2,500	6.0	84‡	5.0	15	544-1212-ND	16.75	EPM7128STC100-15
100-TQFP	128	2,500	6.0	100	5.0	15	544-2046-ND◆	16.75	EPM7128STC100-15N
100-TQFP	128	2,500	6.0	100	5.0	10	544-2333-ND†	57.50	EPM7128STI100-10
100-TQFP	128	2,500	6.0	100	5.0	10	544-2334-ND◆†	57.50	EPM7128STI100-10N
160-PQFP	128	2,500	6.0	100	5.0	7	544-2328-ND	67.00	EPM7128SQC160-7
160-PQFP	128	2,500	6.0	100	5.0	10	544-2327-ND	50.00	EPM7128SQC160-10
160-PQFP	128	2,500	6.0	100	5.0	15	544-2042-ND	33.50	EPM7128SQC160-15
160-PQFP	128	2,500	6.0	100	5.0	15	544-2043-ND◆	33.50	EPM7128SQC160-15N
160-PQFP	128	2,500	6.0	100	5.0	10	544-2044-ND†	65.50	EPM7128SQI160-10
84-PLCC	160	3,200	10.0	104	5.0	10	544-2335-5-ND*	134.80	EPM7160ELC84-10
84-PLCC	160	3,200	10.0	104	5.0	15	544-2336-5-ND*	79.40	EPM7160ELC84-15
84-PLCC	160	3,200	10.0	104	5.0	20	544-2337-5-ND*	67.20	EPM7160ELC84-20
84-PLCC	160	3,200	10.0	104	5.0	20	544-2338-5-ND†*	88.60	EPM7160ELI84-20
84-PLCC	160	3,200	6.0	104	5.0	7	544-2047-5-ND*	66.00	EPM7160SLC84-7
84-PLCC	160	3,200	6.0	64	5.0	10	544-1213-5-ND*	48.00	EPM7160SLC84-10
84-PLCC	160	3,200	6.0	104	5.0	10	544-2339-5-ND◆*	48.00	EPM7160SLC84-10N
84-PLCC	160	3,200	6.0	104	5.0	10	544-2048-ND†	62.00	EPM7160SLI84-10
100-TQFP	160	3,200	6.0	104	5.0	6	544-2340-ND	97.00	EPM7160STC100-6
100-TQFP	160	3,200	6.0	104	5.0	7	544-2051-ND	73.00	EPM7160STC100-7
100-TQFP	160	3,200	6.0	84	5.0	10	544-1214-ND	52.50	EPM7160STC100-10
100-TQFP	160	3,200	6.0	104	5.0	10	544-2050-ND◆	52.50	EPM7160STC100-10N
100-TQFP	160	3,200	6.0	104	5.0	10	544-2052-ND†	68.00	EPM7160STI100-10
100-TQFP	160	3,200	6.0	104	5.0	10	544-2053-ND◆†	68.00	EPM7160STI100-10N
160-PQFP	160	3,200	6.0	104	5.0	10	544-2049-ND	60.00	EPM7160SQC160-10
160-PGA	192	3,750	12.0	124	5.0	20	544-2341-ND†	321.00	EPM7192EGI160-20
160-PQFP	192	3,750	7.5	124	5.0	7	544-2342-ND	108.00	EPM7192SQC160-7
160-PQFP	192	3,750	7.5	124	5.0	10	544-1215-ND	81.50	EPM7192SQC160-10
160-PQFP	192	3,750	7.5	124	5.0	10	544-2054-ND◆	81.50	EPM7192SQC160-10N
160-PQFP	192	3,750	7.5	124	5.0	15	544-1216-ND	52.50	EPM7192SQC160-15
160-PQFP	192	3,750	7.5	124	5.0	15	544-2055-ND◆	52.50	EPM7192SQC160-15N
160-PQFP	192	3,750	7.5	124	5.0	10	544-2343-ND†	106.00	EPM7192SQI160-10
160-PQFP	192	3,750	7.5	124	5.0	10	544-2344-ND◆†	106.00	EPM7192SQI160-10N
256-FBGA	256	5,000	12.0	164	2.5	7	544-2355-ND	44.00	EPM7256BFC256-7
192-PGA	256	5,000	12.0	164	5.0	20	544-2356-ND†	426.00	EPM7256EGI192-20
208-PQFP	256	5,000	7.5	164	5.0	7	544-2065-ND	117.00	EPM7256SQC208-7
208-PQFP	256	5,000	7.5	164	5.0	7	544-2066-ND◆	117.00	EPM7256SQC208-7N

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C * Tube

‡ Perform a complete thermal analysis before committing a design to this device package. For more information, see the *Operating Requirements for Altera Devices Data Sheet*, available at www.digikey.com. *(Continued)*

CPLDs *(Cont.)*

Package	Macro Cells	Gates	Pin-Pin Delay (ns)	I/O Pins	Voltage (V)	Speed (NS)	Digi-Key Part No.	Price Each	Altera Part No.
208-PQFP	256	5,000	7.5	164‡	5.0	10	544-1219-ND	87.50	EPM7256SQC208-10
208-PQFP	256	5,000	7.5	164‡	5.0	15	544-1220-ND	70.00	EPM7256SQC208-15
208-PQFP	256	5,000	7.5	164	5.0	15	544-2064-ND◆	70.00	EPM7256SQC208-15N
208-RQFP	256	5,000	7.5	164	5.0	7	544-2069-ND	180.00	EPM7256SRC208-7
208-RQFP	256	5,000	7.5	164	5.0	10	544-2067-ND	144.00	EPM7256SRC208-10
208-RQFP	256	5,000	7.5	164	5.0	15	544-2068-ND	86.00	EPM7256SRC208-15
208-RQFP	256	5,000	7.5	164	5.0	10	544-2070-ND†	187.00	EPM7256SRI208-10
MAX 7000A									
44-PLCC	32	600	6.0	36	5.0	7	544-1996-ND	2.60	EPM7032AELC44-7
44-PLCC	32	600	4.5	36	3.3	10	544-1177-5-ND*	2.10	EPM7032AELC44-10
44-PLCC	32	600	6.0	36	5.0	10	544-1995-ND◆	2.10	EPM7032AELC44-10N
44-TQFP	32	600	4.5	36	3.3	4	544-1179-ND	4.50	EPM7032AETC44-4
44-TQFP	32	600	6.0	36	5.0	4	544-1998-ND◆	4.50	EPM7032AETC44-4N
44-TQFP	32	600	4.5	36	3.3	7	544-1180-ND	3.00	EPM7032AETC44-7
44-TQFP	32	600	6.0	36	5.0	7	544-1999-ND◆	3.00	EPM7032AETC44-7N
44-TQFP	32	600	4.5	36	3.3	10	544-1178-ND	2.40	EPM7032AETC44-10
44-TQFP	32	600	6.0	36	5.0	10	544-1997-ND◆	2.40	EPM7032AETC44-10N
44-TQFP	32	600	4.5	36	3.3	7	544-1181-ND†	3.95	EPM7032AETI44-7
44-TQFP	32	600	6.0	36	5.0	7	544-2000-ND◆†	3.95	EPM7032AETI44-7N
44-PLCC	64	1,250	6.0	68	5.0	10	544-2295-5-ND*	7.20	EPM7064AELC44-10
44-TQFP	64	1,250	4.5	36	3.3	4	544-1192-ND	50.00	EPM7064AETC44-4
44-TQFP	64	1,250	4.5	36	3.3	7	544-1193-ND	25.00	EPM7064AETC44-7
44-TQFP	64	1,250	6.0	68	5.0	7	544-2009-ND◆	25.00	EPM7064AETC44-7N
44-TQFP	64	1,250	4.5	36	3.3	10	544-1191-ND	7.60	EPM7064AETC44-10
44-TQFP	64	1,250	6.0	68	5.0	10	544-2008-ND◆	7.60	EPM7064AETC44-10N
44-TQFP	64	1,250	4.5	36	3.3	7	544-1194-ND†	32.50	EPM7064AETI44-7
44-TQFP	64	1,250	6.0	68	5.0	7	544-2011-ND◆†	32.50	EPM7064AETI44-7N
100-TQFP	64	1,250	4.5	68	3.3	4	544-1189-ND	80.50	EPM7064AETC100-4
100-TQFP	64	1,250	4.5	68	3.3	7	544-1190-ND	40.25	EPM7064AETC100-7
100-TQFP	64	1,250	4.5	68	3.3	10	544-1188-ND	11.30	EPM7064AETC100-10
100-TQFP	64	1,250	6.0	68	5.0	10	544-2007-ND◆	11.30	EPM7064AETC100-10N
100-TQFP	64	1,250	6.0	68	3.3	7	544-2010-ND†	52.40	EPM7064AETI100-7
84-PLCC	128	2,500	5.0	68	3.3	10	544-1201-5-ND*	16.00	EPM7128AELC84-10
100-FBGA	128	2,500	7.5	100	5.0	5	544-2026-ND	97.50	EPM7128AEFC100-5
100-FBGA	128	2,500	7.5	100	5.0	10	544-2025-ND	31.00	EPM7128AEFC100-10
100-TQFP	128	2,500	5.0	84	3.3	5	544-1203-ND	81.50	EPM7128AETC100-5
100-TQFP	128	2,500	7.5	100	5.0	5	544-2028-ND◆	81.50	EPM7128AETC100-5N
100-TQFP	128	2,500	5.0	84	3.3	7	544-1204-ND	43.50	EPM7128AETC100-7
100-TQFP	128	2,500	7.5	100	5.0	7	544-2029-ND◆	43.50	EPM7128AETC100-7N
100-TQFP	128	2,500	5.0	84	3.3	10	544-1202-ND	16.75	EPM7128AETC100-10
100-TQFP	128	2,500	7.5	100	5.0	10	544-2027-ND◆	16.75	EPM7128AETC100-10N
100-TQFP	128	2,500	5.0	84	3.3	7	544-1206-ND†	79.50	EPM7128AETI100-7
100-TQFP	128	2,500	7.5	100	5.0	7	544-2031-ND◆†	79.50	EPM7128AETI100-7N
144-TQFP	128	2,500	7.5	100	5.0	7	544-2316-ND	52.50	EPM7128AETC144-7
144-TQFP	128	2,500	5.0	100	3.3	10	544-1205-ND	29.50	EPM7128AETC144-10
144-TQFP	128	2,500	7.5	100	5.0	10	544-2030-ND◆	29.50	EPM7128AETC144-10N
100-TQFP	256	5,000	12.0	164	5.0	5	544-2058-ND	141.00	EPM7256AETC100-5
100-TQFP	256	5,000	12.0	164	5.0	7	544-2351-ND	80.00	EPM7256AETC100-7
100-TQFP	256	5,000	12.0	164	5.0	7	544-2352-ND◆	80.00	EPM7256AETC100-7N
100-TQFP	256	5,000	5.5	84	3.3	10	544-1217-ND	48.50	EPM7256AETC100-10
100-TQFP	256	5,000	12.0	164	5.0	10	544-2057-ND◆	48.50	EPM7256AETC100-10N
100-TQFP	256	5,000	12.0	164	5.0	7	544-2061-ND†	136.50	EPM7256AETI100-7
144-TQFP	256	5,000	12.0	164	5.0	5	544-2060-ND	156.00	EPM7256AETC144-5
144-TQFP	256	5,000	12.0	164	5.0	7	544-2353-ND	87.00	EPM7256AETC144-7
144-TQFP	256	5,000	12.0	164	5.0	7	544-2354-ND◆	87.00	EPM7256AETC144-7N
144-TQFP	256	5,000	5.5	120	3.3	10	544-1218-ND	59.00	EPM7256AETC144-10
144-TQFP	256	5,000	12.0	164	5.0	10	544-2059-ND◆	59.00	EPM7256AETC144-10N
144-TQFP	256	5,000	12.0	164	5.0	7	544-2062-ND†	152.00	EPM7256AETI144-7
144-TQFP	256	5,000	12.0	164	5.0	7	544-2063-ND◆†	152.00	EPM7256AETI144-7N
208-PQFP	256	5,000	12.0	164	5.0	5	544-2056-ND	172.00	EPM7256AEQC208-5
208-PQFP	256	5,000	12.0	164	5.0	7	544-2350-ND	96.00	EPM7256AEQC208-7
208-PQFP	256	5,000	12.0	164	5.0	10	544-2349-ND	71.00	EPM7256AEQC208-10
256-FBGA	256	5,000	12.0	164	5.0	5	544-2346-ND	151.00	EPM7256AEFC256-5
256-FBGA	256	5,000	12.0	164	5.0	7	544-2347-ND	45.00	EPM7256AEFC256-7
256-FBGA	256	5,000	12.0	164	5.0	10	544-2345-ND	34.00	EPM7256AEFC256-10
256-FBGA	256	5,000	12.0	164	5.0	7	544-2348-ND†	200.00	EPM7256AEFI256-7
144-TQFP	512	10,000	7.5	120	5.0	7	544-2360-ND	270.00	EPM7512AETC144-7
144-TQFP	512	10,000	7.5	120	3.3	10	544-2073-ND	180.00	EPM7512AETC144-10
144-TQFP	512	10,000	7.5	120	3.3	12	544-2074-ND	120.00	EPM7512AETC144-12
208-PQFP	512	10,000	7.5	164	5.0	7	544-2359-ND	302.00	EPM7512AEQC208-7
208-PQFP	512	10,000	7.5	164	5.0	10	544-2358-ND	201.00	EPM7512AEQC208-10
208-PQFP	512	10,000	7.5	164	3.3	10	544-2072-ND†	261.00	EPM7512AEQI208-10
256-FBGA	512	10,000	7.5	212	5.0	7	544-2357-ND	376.00	EPM7512AEFC256-7
256-FBGA	512	10,000	7.5	212	3.3	10	544-2071-ND†	327.00	EPM7512AEFI256-10
MAX 7000B									
256-FBGA	512	10,000	5.5	212	2.5	5	544-2361-ND	300.00	EPM7512BFC256-5
MAX 9000									
84-PLCC	320	6,000	10.0	60	5.0	15	544-2362-5-ND*	123.00	EPM9320LC84-15
208-RQFP	560	12,000	10.0	153	5.0	10	544-2363-ND	234.00	EPM9560ARC208-10
208-RQFP	560	12,000	10.0	153	5.0	10	544-2364-ND†	305.00	EPM9560ARI208-10
240-RQFP	560	12,000	10.0	191	5.0	10	544-2365-ND†	336.00	EPM9560ARI240-10
240-RQFP	560	12,000	10.0	191	5.0	15	544-2366-ND	364.00	EPM9560RC240-15
240-RQFP	560	12,000	10.0	191	5.0	20	544-2367-ND†	337.00	EPM9560RI240-20

◆ ***RoHS Compliant*** † Industrial Temperature: -40°C ~ 100°C * Tube ‡ Perform a complete thermal analysis before committing a design to this device package. For more information, see the *Operating Requirements for Altera Devices Data Sheet,* available at www.digikey.com.

Configuration Devices

During device operation, Altera® FPGA's store configuration data in SRAM cells. Because SRAM memory is volatile, the SRAM cells must be loaded with configuration data each time the device powers up. You can configure the devices using data stored in an Altera configuration device. Altera configuration devices are offered in different densities and provide a variety of features.

Memory Size (BIT)	On-Chip Decompression Support	ISP Support	Reprogrammable	Voltage (V)	Package	Digi-Key Part No.	Price Each	Altera Part No.
65K	No	No	No	5.0/3.3	8-PDIP	544-1221-5-ND*	5.50	EPC1064PC8
	No	No	No	5.0	8-PDIP	544-1368-5-ND*	7.70	EPC1064PI8
	No	No	No	5.0	20-PLCC	544-1367-5-ND*	9.10	EPC1064LI20
212K	No	No	No	5.0	8-PDIP	544-1370-5-ND*	13.25	EPC1213PI8
	No	No	No	5.0/3.3	8-PDIP	544-1222-5-ND*	9.50	EPC1213PC8
	No	No	No	5.0/3.3	20-PLCC	544-2188-5-ND*	10.75	EPC1213LC20
	No	No	No	5.0	20-PLCC	544-1369-5-ND*	15.00	EPC1213LI20
400K	No	No	No	5.0/3.3	8-PDIP	544-1224-5-ND*	3.50	EPC1441PC8
	No	No	No	5.0/3.3	8-PDIP	544-1225-5-ND*	4.90	EPC1441PI8
	No	No	No	5.0/3.3	20-PLCC	544-1223-5-ND*	3.50	EPC1441LC20
440K	No	No	No	5.0/3.3	20-PLCC	544-1371-5-ND◆*	3.50	EPC1441LC20N
	No	No	No	5.0/3.3	32-TQFP	544-1372-ND	3.95	EPC1441TC32
	No	No	No	5.0/3.3	32-TQFP	544-1649-ND◆	3.95	EPC1441TC32N
1M	No	No	No	5.0/3.3	8-PDIP	544-1232-5-ND*	15.50	EPC1PI8
	No	No	No	5.0/3.3	8-PDIP	544-1375-5-ND◆*	15.50	EPC1PI8N
	No	No	No	5.0/3.3	8-PDIP	544-1231-5-ND*	11.00	EPC1PC8
	No	No	Yes	3.3	8-SOIC	544-1241-5-ND◆*	3.50	EPCS1SI8
	No	No	Yes	3.3	8-SOIC	544-1242-5-ND◆*	3.50	EPCS1SI8N
	No	No	No	5.0/3.3	20-PLCC	544-1229-5-ND*	12.50	EPC1LC20
	No	No	No	5.0/3.3	20-PLCC	544-1934-5-ND◆*	12.50	EPC1LC20N
	No	No	No	5.0/3.3	20-PLCC	544-1230-5-ND*	17.50	EPC1LI20
	No	No	No	5.0/3.3	20-PLCC	544-1651-ND◆	17.50	EPC1LI20N
1.6M	No	Yes	Yes	5.0/3.3	20-PLCC	544-1233-5-ND*	33.50	EPC2LC20
	No	Yes	Yes	5.0/3.3	20-PLCC	544-1234-5-ND*	45.00	EPC2LI20
	No	Yes	Yes	5.0/3.3	20-PLCC	544-1650-ND◆	45.00	EPC2LI20N
	No	Yes	Yes	5.0/3.3	20-PLCC	544-1376-5-ND◆*	33.50	EPC2LC20N
	No	Yes	Yes	5.0/3.3	32-TQFP	544-1235-ND	37.50	EPC2TC32
	No	Yes	Yes	5.0/3.3	32-TQFP	544-1236-ND	52.50	EPC2TI32
	No	Yes	Yes	5.0/3.3	32-TQFP	544-1648-ND◆	52.50	EPC2TI32N
	No	Yes	Yes	5.0/3.3	32-TQFP	544-1377-ND◆	37.50	EPC2TC32N
4M	Yes	Yes	Yes	3.3	100-PQFP	544-1237-ND	41.00	EPC4QC100
	Yes	Yes	Yes	3.3	100-PQFP	544-1378-ND◆	41.00	EPC4QC100N
	Yes	Yes	Yes	3.3	100-PQFP	544-2189-ND	55.50	EPC4QI100
	Yes	Yes	Yes	3.3	100-PQFP	544-2190-ND◆	55.50	EPC4QI100N
	No	Yes	Yes	3.3	8-SOIC	544-1243-5-ND	13.00	EPCS4SI8
	No	Yes	Yes	3.3	8-SOIC	544-1379-5-ND◆*	13.00	EPCS4SI8N
8M	Yes	Yes	Yes	3.3	100-PQFP	544-1238-ND	45.00	EPC8QC100
	Yes	Yes	No	3.3	100-PQFP	544-1683-ND◆	45.00	EPC8QC100N
	Yes	Yes	Yes	3.3	100-PQFP	544-1239-ND	61.00	EPC8QI100
	Yes	Yes	No	3.3	100-PQFP	544-1682-ND◆	61.00	EPC8QI100N
16M	No	No	Yes	3.3	16-SOIC	544-1240-5-ND◆*	16.25	EPCS16SI16N
	Yes	Yes	Yes	3.3	88-UBGA	544-1228-ND	87.00	EPC16UC88
	Yes	No	No	3.3	88-UBGA	544-1374-ND◆	87.00	EPC16UC88N
	Yes	Yes	Yes	3.3	100-PQFP	544-1226-ND	59.00	EPC16QC100
	Yes	Yes	No	3.3	100-PQFP	544-1681-ND◆	59.00	EPC16QC100N
	Yes	Yes	Yes	3.3	100-PQFP	544-1227-ND	80.00	EPC16QI100
	Yes	Yes	No	3.3	100-PQFP	544-1684-ND◆	80.00	EPC16QI100N
	No	Yes	Yes	3.3	8-SOIC	544-2567-5-ND◆* ***NEW!***	14.75	EPCS16SI8N
64M	No	Yes	Yes	3.3	16-SOIC	544-1380-5-ND◆*	32.50	EPCS64SI16N

◆ ***RoHS Compliant*** * Tube

ALTERA®

Programming Cable, USB

The USB-Blaster™ download cable interfaces to a standard USB PC port. The cable is a hardware interface to either a standard PC or UNIX workstation RS-232 port or a USB port. It provides configuration data to Excalibur™, Mercury™, APEX™ II, APEX 20K, ACEX® 1K, FLEX® 10K, FLEX 8000 and FLEX 6000 devices and programming data to MAX® 9000, MAX 7000S, MAX 3000A, MAX 7000B and MAX 7000A devices. The MasterBlaster™ supports the SignalTap® feature, which allows designers to view internal device logic nodes with a virtual logic analyzer.

544-1775-ND USB(PL-USB-BLASTER-RCN) **$300.00**

ByteBlaster™ Programming Cable

This cable can program and configure 1.8V, 2.5V, 3.3V and 5.0V devices. The cable also provides support for active serial programming of serial configuration devices. The cable drives configuration data from the PC to Stratix®, Stratix GX, Cyclone®, APEX™ II, APEX 20K (including APEX 20K, APEX 20KE, and APEX 20KC), ACEX® 1K, Mercury™, Excalibur™, FLEX® 10K (including FLEX 10KA and FLEX 10KE), FLEX 8000, and FLEX 6000 devices, as well as programming data to MAX® 9000, MAX 7000S, MAX 7000AE, MAX 7000B, MAX 5000A devices and EPC/EPCS configuration devices.

544-1289-ND Parallel-Port Cable (PL-BYTEBLASTER2) **$150.00**

EthernetBlaster™ Cable

The EthernetBlaster communications cable connects to a standard Ethernet network port with an RJ-45 connector. This cable communicates with client systems using the TCP/IP protocol and supports both static and dynamic IP addressing. It can be plugged into an existing 10/100 Base-T Ethernet network to communicate with clients remotely or interfaced directly via a standard 10/100 Base-T Ethernet port using a crossover cable. Because design changes are downloaded directly to the device, prototyping is easy and you can accomplish multiple design iterations in quick succession. Harnessing the power of an Ethernet network, multiple users can remotely access Altera devices, bringing a new level of productivity to prototyping and debugging.

Supported Devices:

• Stratix® series FPGAs • Cyclone® series FPGAs • MAX® series CPLDs • APEX™ series FPGAs • ACEX® 1K FPGAs • Mercury™ FPGAs • FLEX® series FPGAs • Excalibur™ FPGAs • You can perform in-system programming of the following devices: • Advanced configuration devices, including EPC2, EPC4, EPC8, EPC16 and EPC1441 devices • Serial configuration devices, including EPCS1, EPCS4, EPCS16 and EPCS64 devices

Power Requirements:

The EthernetBlaster communications cable requires between 1.5V and 5.0V from the target circuit board and 12VDC (0.875A) input power for the EthernetBlaster Vcc supply (12VDC wall transformer is supplied)

Software Requirements:

• Windows NT 4.0 • Windows 2000 • Windows XP • Solaris 2.6 • Solaris 2.7/7 • Solaris 8/9 • Red Hat Linux version 7.3 • Red Hat Linux version 8.0 • Red Hat Enterprise Linux WS 3.0 • HP-UX version 11.0

544-1705-ND Cable Ethernet Programming (PL-ENET-BLASTER) **$575.00**

Max® II Development Kit

Altera's MAX II Development Kit 1270 comes with a complete design environment. The kit enables users to evaluate the MAX II feature set or begin prototyping a design prior to receiving custom hardware. It includes all software, cables, and accessories needed to ensure an easy and productive evaluation of the MAX II CPLD.

Kit Includes: MAX II Development Board: • MAX II EPM1270F256C5 CPLD • USB media access control (MAC) with physical layer (PHY) and Type B connector • PCI Edge connector (3.3-V and 5-V tolerant) • LCD module • SRAM (128K x 8 bit) • Temperature gauge with serial peripheral interface (SPI) • Onboard power meter • Active I/O sense circuitry • One 3.3V-tolerant expansion/prototype header (41 available user I/O pins) • JTAG connectors • Four user-defined push-button switches • Four user-defined LEDs • **Quartus® II Web Edition software** • **Cables and accessories:** • ByteBlaster™ II parallel download cable • Type A-B USB cable (3 feet) • **Reference designs and demos for MAX II including:** • USB reference design • PCI reference design • Low power demo • Real-time in-system progammability (ISP) demo

544-2380-ND (DK-MAXII-1270N) **$150.00**

Arria® GX FPGA Development Kit

The Arria GX FPGA Development Kit delivers a complete environment for the development and testing of designs implementing high-speed serial interfaces in Arria GX FPGAs. This development kit is built on a PCIe form-factor card and targets the development of designs utilizing PCI Express x1 and x4, Gigabit Ethernet, and/or Serial RapidIO™ protocols.

Kit Includes: • Arria GX Development Board • Arria GX EP1AGX60DF780C6N FPGA • PCI Express x4 edge connector • One High-Speed Mezzanine Connector for Gigabit Ethernet and SRIO connectivity • 32Mbyte x 16DDR2 SDRAM operating at 233MHz **Switches and Indicators:** • Four user-definable, pushbutton switches • Eight-position, user-definable, DIP package switch • Eight user-definable LEDs • One nCONFIG pushbutton • One power-on reset pushbutton **Configuration circuitry:** • Max® II/flash configuration circuit • JTAG download port **Quartus® II design software:** • One-year license • Windows platform only • MegaCore® IP Library CD **PCI Express Development Kit, Arria GX Edition CD ROM:** • PCI Express reference design • Complete documentation **Cable and Accessories:** • USB-Blaster™ download cable • External AC adapter power supply • Power cord

544-2372-ND Arria GX FPGA Development Kit (DK-DEV-1AGX60N) **$995.00**

Altera Subscription Program

The Altera Subscription Program offers the most recent versions of the Quartus® II and MAX+PLUS® II software which extends over a duration of a 12 month period. With a valid subscription, the program provides support for the latest programmable logic devices, new software features, performance enhancements, and up-to-date online and printed documentation.

544-1247-ND (FIXEDPC) **$2495.00**

Cyclone® II FPGA Starter Development Kit

The low-cost Cyclone II FPGA Starter Development Kit is ideal if you want to evaluate Altera's high performance, low-power, 90-nm Technology. Several reference designs and demonstrations included in the kit, make for a quick "out-of-the-box" evaluation experience.

Kit Includes: • Cyclone II Starter Development Board • Cyclone II EP2C20F484C7N device Configuration: • USB-Blaster™ download cable (embedded) • EPCS4 serial configuration device **Memory:** • 8-Mbyte SDRAM • 512Kb SRAM • 1 to 4Mbyte flash **Clocking:** • SMA connector (external clock input) **Audio:** • 24-bit coder/decoder (CODEC) **Switches and Indicators:** • Ten switch and four push buttons • Four 7-segment displays • Ten red and eight green LEDs **Connectors:** • VGA, RS-232, and PS/2 ports • Two 40-pin expansion ports • SD/MMC socket **Cables/Power:** • USB cable • External power supply (optional, but recommended when using the kit with additional accessory daughtercards) **Cyclone II FPGA Starter Development Kit CD-ROM:** • Reference designs and demonstrations targets for the Cyclone II FPGA Starter Development Board • User manual • Reference guide • Quartus® II Web Edition CD-ROM • Nios II® Web Edition CD-ROM

544-1736-ND Cyclone II FPGA Starter Development Kit (DK-CYCII-2C20N) **$150.00**

Cyclone® II Edition PCI Development Kit

Altera's Development Kit, Cyclone II Edition provides a flexible, low-cost FPGA development platform in a PCI short card form factor. With a universal PCI edge connector, the PCI Development Kit, Cyclone II Edition, plugs into any standard PCI or PCI-X slot. The kit can be used as a development platform for 32bit and 64bit PCI, PCI-X, DDR2 SDRAM, and Altera Megafunction Partners Program partner intellectual property cores.

Kit Includes:

Cyclone II PCI Development Board: • Cyclone II EP2C35F672 FPGA • Short-form universal PCI (3.3 or 5.0V) card **Memory:** • Two 64MByte DDR2 SDRAM devices **FPGA Device Configuration:** Switch-selectable on power-up, choose one of two serial configuration devices. One device contains the pre-loaded factory default design and the other device is for user-programming. Configuration data is downloaded via the USB-Blaster™ download cable **Flexible Clocking Options:** • Socketed 100MHz high-speed clock oscillator • SMA connector clock input • PCI edge connector clock input **Switches and Indicators:** • Four user-definable push-button switches • Eight-position user-defineable dual in-line package (DIP) switch • Eight user-definable LEDs **Flexible Power Options:** • PCI connector • External power supply **PCI Development Kit, Cyclone II Edition CD-ROM:** • PCI-to-DDR2 Reference Design • Cyclone II PCI Development Kit application and drivers **PLD Applications PCI-X Core CD-ROM:** • PLD Applications PCI-X function for OpenCore® evaluation • Reference designs and applications targeted to the Cyclone II PCI development board • Quartus® II design software, including the SOPC Builder system development tool • Jungo WinDriver Development Toolkit • USB-Blaster download cable • Power cable • Complete documentation

544-1733-ND PCI Development Kit, Cyclone II Edition (DK-PCI-2C35N) **$995.00**

Cyclone® III FPGA Starter Development Kit

The economical Cyclone III FPGA Starter Kit is easy to use and an ideal introduction for users who have never designed with FPGAs before. The Cyclone III FPGAs are the first low-cost FPGA family available in the marketplace harnessing the low-power advantages of 65nm process technology.

Kit Includes:

• **Cyclone III Starter Board** • **Cyclone III EP3C25F324 FPGA Configuration:** • Embedded USB-Blaster™ circuitry allowing download of FPGA configuration files via the users USB port **Power and Analog Devices from Linear Technology:** • Switching power supply LTM4603EV-1 • Switching and step-down regulators LTC3413, LT1959 **Memory:** • 256Mbit DDR SDRAM • 1-Mbyte Synchronous SRAM • 16Mbyte Intel® P30/P33 flash **Clocking:** • 50MHz on-board oscillator **Switches and Indicators:** • Six pushbutton total, 4 user controlled • Seven LEDs total, 4 user controlled **Connectors:** • High-Speed Mezzanine Connector • USB type B **Cables and Power:** • USB cable • External power supply • Cyclone III FPGA Starter Kit CD-ROM: • Example designs targeting the Cyclone III FPGA Starter Board • **Complete Documentation:** • User guide • Reference manual • Board schematic and layout • Bill of Materials • Product and partner information

544-2370-ND Cyclone III FPGA Starter Development Kit (DK-START-3C25N) **$199.00**

NEW! Cyclone® III Edition DSP Development Kit

The DSP Development Kit, Cyclone III Edition delivers a complete digital signal processing (DSP) development environment for design engineers. The kit facilitates the entire design process from design conception through hardware implementation. The DSP Development Kit, Cyclone III Edition includes the Cyclone III development board, the Data Conversion high-speed mezzanine card (HSMC), the DSP Builder development tool, Quartus® II development software, MATLAB/Simulink evaluation software, evaluation intellectual property (IP) cores, design examples, power supplies, cables, and documentation.

Kit Includes:

Cyclone III Development Board: • Cyclone III EP3C120F780 FPGA • 128 x 64 graphics LCD • 2-line x 16-character LCD • Buttons, dip-switches, LEDs, 7-segment display, speaker header **Memory:** • 256 Mbytes of dual-channel DDR2 SDRAM with ECC • 8 Mbytes of synchronous SRAM • 64 Mbytes of flash **Components and Interfaces:** • 10/100/1000 Ethernet (RGMII) • USB 2.0 (Type B) • Two high-speed mezzanine (HSMC) connectors **Data Conversion HSMC:** • Dual 14-bit, 150-MSPS A/D converter • Dual 14-bit, 250-MSPS D/A converter • Audio in/out/mic **Cyclone III FPGA Development Kit, CD-ROM:** • Design examples for the Cyclone III FPGA development board • Complete documentation includes: User guide, Reference manual, Board schematic and layout, Bill of Materials, and Product and partner information **MATLAB/Simulink Evaluation Software Altera® Complete Design Suite DVD:** • Quartus II design software includes Subscription Edition (optional feature, available for purchase) and Web Edition (no charge, Windows only) • ModelSim®-Altera software includes Altera Edition (optional feature, available for purchase) and Web Edition (no charge, Windows only) • MegaCore® IP Library including Nios II processor - OpenCore Plus evaluation • Nios II Embedded Design Suite, Evaluation Edition (free) • DSP Builder • Video demos of Quartus II software and the Nios II processor • System reference designs and labs includes DSP Builder filtering design and Nios II processor reference designs

544-2566-ND Cyclone III DSP Development Kit (DK-DSP-3C120N) **$2109.00**

Cyclone® III Development Kit

Altera's Cylone III FPGA Development Kit combines the largest density low-cost, low-power FPGA available with a robust set of memories and user interfaces. The kit dramatically reduces the design and verification portion of your project, whether it's for automotive, consumer, wireless communications, video processing, or another high-volume, cost sensitive application.

Kit Includes:

Cylone III Development Board: • Cyclone III EP3C120F780 FPGA • Embedded USB-Blaster™ circuitry (includes an Altera MAX II CPLD) allowing download of FPGA configuration files via the flash device or the host computer **Memory:** • 256 Mbytes of dual-channel DDR2 SDRAM with ECC • 8 Mbytes of synchronous SRAM • 64 Mbytes of flash **Communication Ports:** • 10/100/1000 Ethernet • USB 2.0 **Clocking:** • 50-MHz and 125-MHz on board oscillators • SMA Inputs/outputs • Input/outputs for the two HSMCs **Various Buttons, Switches, and Indicators** • **Display:** • 128 x 64 graphics LCD • 2-line x 16-character LCD **Connectors:** • Two HSMCs • USB type B **Debug Tools:** Three HSMC debug cards (tow loop-back and a debug header) **Cables and Power/Analog:** • 14-V-20-V DC input • On-board power measurement circuitry • 19.8 W per HSMC interface • Power cord with plug adapters (US, UK, EU) **Cyclone III FPGA Development Kit, CD-ROM:** • Design examples for the Cyclone III FPGA development board • Complete documentation includes user guide, reference manual, board schematic and layout, bill of materials and product and partner information **Altera Complete Design Suite DVD:** • Quatrus II Design software includes Subscription Edition (optional feature, available for purchase) and Web Edition (no charge, Windows only) • ModelSim®-Altera software includes Altera Edition (optional feature, available for purchase) and Web Edition (no charge, Windows only) • MegaCore® IP Library - Opencore Plus evaluation includes Nios II® processor (evaluation license) • Nios II Embedded Design Suite, Evaluation Edition (no charge) • DSP Builder (optional feature, available for purchase) • Video demos of Quartus II software and Nios II embedded processor

544-2444-ND Cyclone III FPGA Starter Development Kit (DK-DEV-3C120N) **$1495.00**

ALTERA®

Nios® II Development Kit, Stratix® II Edition

Altera's Nios II Development Kit, Stratix II Edition provides a complete development environment including everything hardware and software designers need for system-level designs. Based on the Nios II family of embedded processors and the Stratix II EP2S60 device, you will find this kit is ideal for designing and prototyping wide range embedded applications.

***Kit Includes**:*

• **Nios II Embedded Design Suite:** • Nios II Integrated Development Environment (IDE) and debugger • GNU tools • Nios II instruction set simulator (ISS) • Nios II C-to-Hardware Acceleration Compiler (with free evaluation license)

• **MicroC/OS-II real-time operating system with development license** • **TCP/IP stack** • **Nios II processor IP cores** • **Quartus II Design Software:** • SOPC Builder system development tool • Library of standard microprocessor peripherals • One-year license, Windows platform only • **RoHS-Compliant Development Board:** • Stratix II EP2S60F672C3 device • MAX EPM7128AE CPLD configuration control logic • 1-Mbyte synchronous SRAM • 16-Mbyte DDR SDRAM • 16-Mbyte flash memory • EPCS64 serial configuration device (64 Mbit) • CompactFlash connector header for Type I CompactFlash cards (40 available) • 10/100 Ethernet physical layer/media access control (PHY/MAC) • One serial connector (RS-232 DB9 port) • Two expansion/prototype headers (2 x 41 available user I/O pins) • JTAG connectors for FPGA and CPLD • Mictor trace/debug connector • One set PMC headers (32-bit) • Four user-defined push-button switches • Eight user-defined LEDs • Dual 7-segment LED display • Power-on reset circuitry • **Cables and Accessories**: • USB-Blaster Rev B download cable • Serial cable (RS-232) • 9-V power supply • International power cords • LCD module • Ethernet (RJ45) cable (7 feet) • Ethernet crossover adapter • **Many hardware and software reference designs** • **One-year subscription to Nios II EDS upgrades** • **There are no license or royalty fees required to develop with Nios II processors in Altera FPGAs and HardCopy® devices** • **Coupon for a 20% discount on any one instructor-led Altera Technical Training course scheduled in North America**

544-1697-ND (DK-NIOS-2S60N) **$995.00**

DSP Development Kit, Stratix® II Edition

The DSP Development Kit, Stratix II Edition delivers a complete digital signal processing (DSP) Development environment for design engineers. The kit facilitates the entire design process from design conception through hardware implementation. The DSP Development Kit, Stratix II Edition includes the Stratix II DSP development board, DSP Builder development tool, Quartus II development software, MATLAB/Simulink evaluation software, evaluation intellectual property (IP) cores, system reference designs and labs, as well as power supplies, cables and documentation.

***Kit Includes**:*

- **DSP Development Board, Stratix II Edition**: • Stratix II EP2S60F1020C4 device
- **Analog I/O**: • Two-channel, 12-bit • Two-channel, 14-bit • VGA digital-to-analog converter (DAC) • Stereo audio coder/decoder (CODEC)
- **Digital I/O**: • Connector for the Texas Instruments (TI) C6000 DSP Starter Kit (DSK) to enable expansion and FPGA coprocessing • Two 40-pin connectors for Analog Devices A/D converter evaluation boards • Mictor connector for Agilent and Tektronix logic analyzers • RS-232 serial port • 10/100 Ethernet physical layer/media access control (PHY/MAC) and RJ-45 jack
- **Memory**: • 32-Mbyte SDR SDRAM •16-Mbyte flash • 1-Mbyte SRAM • 16-Mbyte compact flash
- **MATLAB/Simulink evaluation software**
- **DSP Builder development tool**
- **Quartus II DKE**
- **Evaluation IP cores**
- **System Reference Designs and Labs:** • DSP Builder filtering design • DSP Builder/SOPC Builder image processing reference design • Fast Fourier transform (FFT) coprocessor reference design • Nios II reference designs
- **Cables and Accessories**: • USB-Blaster download cable • Serial cable (RS-232) • Power supply • International power cords

544-1700-ND (DK-DSP-2S60N) **$1995.00**

DSP Development Kit, Stratix® II Professional Edition

The DSP Development Kit, Stratix II Professional Edition delivers a complete digital signal processing (DSP) development environment for design engineers. The kit facilitates the entire design process from design conception through hardware implementation. The DSP Development Kit, Stratix II Professional Edition includes the Stratix II EP2S180 DSP development board, DSP Builder development tool, Quartus II development software, MATLAB/Simulink evaluation software, evaluation intellectual property (IP) cores, system reference designs and labs, as well as power supplies, cables and documentation.

***Kit Includes**:*

• **Stratix II EP2S180 DSP Development Board**: • Stratix II EP2S180F1020C3 device • **Analog I/O** • Two-channel, 12-bit • Two-channel, 14-bit • VGA digital-to-analog converter (DAC) • Stereo audio coder/decoder (CODEC), 96 kHz • **Digital I/O**: • Connector for the Texas Instruments (TI) C6000 DSP Starter Kit (DSK) to enable expansion and FPGA coprocessing • Two 40-pin connectors for Analog Devices A/D converter evaluation boards • Mictor connector for Agilent and Tektronix logic analyzers • RS-232 serial port • 10/100 Ethernet physical layer/media access control (PHY/MAC) and RJ-45 jack • **Memory**: • 32-Mbyte SDR SDRAM •16-Mbyte flash • 1-Mbyte SRAM • 16-Mbyte compact flash • **The MathWorks' MATLAB/Simulink Evaluation Software** • **DSP Builder Development Tool** • **Quartus II DKE** • **Evaluation IP Cores** • **System Reference Designs and Labs:** • DSP Builder filtering design • DSP Builder/SOPC Builder image processing reference design • Fast Fourier transform (FFT) coprocessor reference design for TI's TMS320C6416DSK • Nios II reference designs • **Cables and Accessories**: • USB-Blaster download cable • Serial cable (RS-232) • Power supply • International power cords

544-1701-ND (DK-DSP-2S180N) **$5995.00**

Audio Video Development Kit, Stratix® II GX Edition

The Audio Video Development Kit, Stratix II GX Edition delivers a complete video and image processing development environment for design engineers. The kit facilitates the entire design process, from design conception through hardware implementation.

The Audio Video Development Kit, Stratix II GX Edition includes the Stratix II EP2SGX90 Audio Video development board, Quartus II development software, evaluation intellectual property (IP) cores-including the Video and Image Processing Suite – the serial digital interface (SDI) reference design as well as power supplies, cables and documentation.

***Kit Includes**:*

- **Stratix II GX Video Development Board**: • Stratix II GX FPGA (EP2SGX90FF1508C3)
- **Video Interfaces**: • Digital Video Interface (DVI) inputs/outputs • Four (4) standard definition (SD)/high definition (HD) SDI inputs/outputs, include support
- **Audio Interfaces**: • AES3 • Sony/Phillips digital interface (S/PDIF)
- **External Memory**: • DDR2 DIMM (72 bit at 266MHz) • 2-Mbyte SRAM • 16-Mbyte flash (configuration)
- **Altera High-Speed Mezzanine Connector (HSMC)**
- **RJ-45 (copper) Connector and External 10/100/1,000 Ethernet PHY (GMII)**
- **1394 MAC/PHY**
- **USB MAC/PHY**
- **Video and Image Processing Suite evaluation IP cores**
- **SDI Reference Design**
- **Board Design Files**: • Schematics • Layout (Allegro format)

544-1702-ND (DK-VIDEO-2SGX90N) **$4995.01**

Transceiver Signal Integrity Development Kit, Stratix® II Edition

This Transceiver Signal Integrity Development Kit, Stratix II GX Edition enables a thorough evaluation of Stratix II GX transceiver signal integrity by allowing you to:

- Evaluate transceiver performance from 622 Mbps to 6.375 Gbps
- Generate and check pseudo-random bit sequence (PRBS) patterns via an easy to use GUI
- Dynamically change Voltage Output Differential (V_{od}), Pre-emphasis and Equalization settings to optimize transceiver performance to your channel
- Perform jitter analysis
- Verify PMA compliance to PCI Express, Gigabit Ethernet, XAUI, CEI-6G, Serial RapidIO, HD-SDI and other major standards

***Kit Includes**:*

- Stratix II GX development board (Stratix II GX EP2SGX90EF1152C3 FPGA)
- USB port to interface with PC for easy plug and play
- Transceiver Signal Integrity Development Kit, Stratix II GX Edition CD-ROM
- Quartus II design software
- AC adapter power supply
- USB-Blaster download cable
- Development kit user guide
- Board reference manual

544-1724-ND (DK-SI-2SGX90N) **$1295.00**

PCI Express Development Kit, Stratix® II GX Edition

This PCI Express Development Kit, Stratix II GX Edition delivers a complete PCI Express-based development platform for design engineers. This PCI Express solution, interoperable with industry standard PCI Express platforms, facilitates the development of custom PCI Express applications. The board also enables system-level solutions by operating as a stand-alone development platform allowing for a variety of custom applications running on the Stratix II GX FPGA.

***Features**:*

- PCI-SIG-compliant FPGA, intellectual property (IP) core, board (Stratix II GX FPGA and x1, x4, x8 PCI Express IP MegaCore using OpenCore Plus)
- One year license for Quartus II design software
- Board schematics and layout information
- Reference design and supporting documentation
- Altera high speed mezzanine connectors (HSMCs) allow for expansion (Six embedded transceiver channels)
- 256-Mbyte DDR2 SDRAM, 72 bits, 333 MHz/667 Mbps
- 2-Mbyte QDR2 SRAM, 36 bits, 300 MHz / 1,200 Mbps

***Kit Includes**:*

- Stratix II GX development board EP2SGX90F1508C3
- PCI Express Development Kit, Stratix II GX Edition CD-ROM
- MegaCore IP Library CD (Including the PCI Express, DDR2, QDR2 IP cores)
- Quartus II design software
- USB-Blaster download cable
- External AC adapter power supply
- Power cord (including support for UK, Europe)
- Jungo WinDriver Development Toolkit

544-1725-ND (DK-PCIE-2SGX90N) **$2995.01**

Nios® II Development Kit, Cyclone™ II Edition

Altera's Nios II Development Kit, Cyclone II Edition provides everything needed for system-on-a-programmable-chip (SOPC) development. Based on Altera's Nios II family of embedded processors and the low cost Cyclone II EP2C35 device, this development kit provides an ideal environment for developing and prototyping a wide range of price sensitive embedded applications.
***Kit Includes**:*
• **Nios II family of embedded processors** • **Nios II development tools, including**: • Nios II integrated development environment (IDE) and debugger • GNU tools • Nios II instruction set simulator (ISS) • **MicroC/OS-II real-time operating system with development license** • **LightweightIP TCP/IP stack** • **Quartus II design software, including the SOPC Builder system development tool** • **Library of standard microprocessor peripherals** • **RoHS-Compliant development board:** • Cyclone II EP2C35F672 device • MAX EPM7128AE CPLD configuration control logic • 1-Mbyte synchronous SRAM • 16-Mbyte DDR SDRAM • 16-Mbyte flash memory • EPCS64 serial configuration device (64 Mbit) • CompactFlash connector header for Type I CompactFlash cards (40 available) • 10/100 Ethernet physical layer/media access control (PHY/MAC) • Ethernet connector (RJ-45) • One serial connector (RS-232 DB9 port) • Two expansion/prototype headers (2 x 41 available user I/O pins) • JTAG connectors for FPGA and CPLD • Mictor trace/debug connector • One set PMC headers (32-bit) • Four user-defined push-button switches • Eight user-defined LEDs • Dual 7-segment LED display • Power-on reset circuitry • **Cables and accessories**: • USB-Blaster Rev B download cable • Serial cable (RS-232) • 9-V power supply • International power cords • LCD module • Ethernet (RJ45) cable (7 feet) • Ethernet crossover adapter • **Many hardware and software reference designs targeted to the Nios development board Cyclone II edition** • **One-year subscription to Nios II processor-related tool upgrades** • **There are no license or royalty fees connected with the Nios II development kit used to develop with Altera FPGA's and HardCopy series structured ASICs** • **Coupon for a 20% discount on any one instructor-led Altera Technical Training course scheduled in North America**

544-1698-ND (DK-NIOS-2C35N) **$995.00**

Nios® II Embedded Evaluation Kit, Cyclone™ III Edition

The Nios II Embedded Evaluation Kit, Cyclone III Edition, is a first class, low cost evaluation platform for embedded developers. Software developers, especially those new to FPGA design, can install and evaluate the Nios II Embedded Design Suite (EDS) - a comprehensive software development suite for embedded applications - all at no cost. The included software tutorials and examples come with full source code showing applications such as Picture Viewer, Web Server, C-to-Hardware (C2H) acceleration and graphics.
***Kit Includes**:*
• **CYCLONE III STARTER BOARD:** Cyclone III EP3C25F324 FPGA • **Configuration:** Embedded USB-Blaster™ circuitry (includes an Altera EPM3128A CPLD) allowing download of FPGA configuration files via the user's USB port • **Power and analog devices from Linear Technology:** • Switching power supply LTM4603EV-1 • Switching and step-down regulators LTC3413, LT1959 • **Memory:** • 32 Mbytes of DDR SDRAM • 1Mbyte of Synchronous SRAM • 16Mbytes of Intel P30/P33 flash • **Clocking:** 50 MHz on-board oscillator • **Switches and indicators:** • Six push buttons total, four user controlled • Seven LEDs total, four user controlled • **LCD DAUGHTER CARD:** • **Color LCD touch-screen display:** 800 x 480 resolution • **24-bit CD quality Audio CODEC with line-in, line-out, and microphone-in jacks** • **10/100 Ethernet physical layer/media access control (PHY/MAC)** • **Connectors:** • VGA output • Composite TV-in • Audio-out, audio-in, and microphone-in • Secure digital (SD) card • Serial connector (RS-232 DB9 port) • PS/2 • Ethernet connector (RJ-45) • **NIOS II EVALUATION KIT CD-ROM:** • **Example applications:** • Application selector • Picture viewer • Mandelbrot acceleration with the Nios C2H compiler • Web server/Remote FPGA configuration • **Hardware tutorials:** • Create an FPGA design in one hour • Build a 32-bit soft processer system inside an FPGA **Software tutorials:** My First Software Application • **Complete documentation:** • Quick start guide • User guide • Reference manual • Board schematic, layout, and bill of materials • Product and partner information • **CABLES AND ACCESSORIES** • 128-Mbyte SD card and USB-to-SD card adapter • USB cable • 9V power supply • International power cords • Ethernet (RJ-45) cable (7 ft.) • Ethernet crossover adapter • **ALTERA COMPLETE DESIGN SUITE DVD (Free):** • Quartus® II Web Edition (FPGA design software) • ModelSim® Altera Web Edition (FPGA simulation software from ModelSim) • Nios II Embedded Design Suite (32-bit microprocessor software) • MicroC/OS-II real-time operating system evaluation • Nios II C-to-Hardware acceleration compiler evaluation • NicheStack TCP/IP Network Stack - Nios II Edition evaluation • MegaCore® IP Library *(Library of intellectual property cores)*

544-2411-ND (DK-N2EVAL-3C25N-OB) **$449.00**

DSP Development Kit, Cyclone™ II Edition

The DSP Development Kit, Cyclone II Edition provides everything you need to develop complete system-on-a-programmable-chip (SOPC) solutions.
***Kit Includes**:*
• Cyclone II DSP Development Board with and EP2C70 device • DSP Development Kit, Cyclone II Edition Version 6.0.1 CD-ROM • DSP Builder Version 6.0.1 CD-ROM • The MathWorks MATLAB and Simulink CD-ROM Release 2006a (2006a) • Quartus II Software Development Kit Edition (DKE) version 6.0 SP1 CD-ROM • Nios II Embedded Processor Windows Evaluation Edition version 6.0.1 CD-ROM • IP MegaCore Library version 6.0.1 CD-ROM • SLP-50 anti-aliasing filter from Mini-Circuits • SMA Cable • USB-Blaster download cable and USB cable • Power supply and adapters for North America/Japan, Europe and the United Kingdom • Quartus II Design Software Installation and Licensing for PCs manual

544-1699-ND (DK-DSP-2C70N) **$995.00**

Video Development Kit, Cyclone™ II Edition

The Video Development Kit, Cyclone II Edition, featuring the Texas Instruments (TI) TVP5146 Family of video analog-to-digital (A/D) converters, delivers a complete development environment for digital video and image processing. The kit facilitates the entire design process from design conception through hardware implementation. The Video Development Kit, Cyclone II Edition includes the Cyclone II DSP development board, Altera's video input daughter card, DSP Builder development tool, Quartus II development software, evaluation intellectual property (IP) cores, system reference designs and labs, as well as power supplies, cables and documentation.
***Kit Includes**:*
• **Cyclone II EP2C70 DSP development board**: Cyclone II EP2C70F672C6 device • **Video input daughter card**: • Composite video input channels TI TVP5146 (Supports NTSC/PAl, 10-bit BT.656 output) • **Analog I/O**: • Two 14-bit, 125-MSPS analog-to-digital (A/D) converter - TI ADS5500 • Two 14-bit 165-MSPS digital-to-analog (D/A) converter - TI DAC904 • VGA digital-to-analog converter (D/A) • Stereo audio coder/decoder (CODEC), 96kHz • **Digital I/O**: • EMIF connector for TI's C6000 DSP Starter Kit (DSK) to enable peripheral expansion and FPGA co-processing • MICTOR connector for Agilent and Tektronix logic analyzers • Expansion prototyping connector • **Memory**: • 256-Mbyte DDR2 DIMM • 1-Mbyte synchronous SRAM • Two EPCS64 devices • **MATLAB/Simulink Evaluation Software** • **DSP Builder development tool** • **Quartus II DKE** • **Evaluation IP cores** • **System reference designs and labs:** • Video and image processing reference design • DSP Builder filtering design • DSP Builder/SOPC Builder image processing reference design • Fast Fourier transform (FFT) coprocessor reference design for TI's TMS320C6416DSK • Nios II reference designs • DDR2 DIMM reference design • **Cables and accessories**: • USB-Blaster download cable • Power supply • International power cords

544-1703-ND (DK-VIDEO-2C70N) **$1095.00**

Video Input Daughtercard

The Video Input Daughter Card from Altera enables composite video to be interfaced with Altera's or third party partner FPGA development board equipped with a standard expansion connector. It is ideal for developing applications with the Video and Image Processing Solutions that need to perform any image processing. The daughter card is included as part of the Video Development Kit, Cyclone II Edition and it can be purchased as a separate item.
Features: • 2 Composite Video Input Channels using the Texas Instruments (TI) TVP5146 ADC • Support for NTSC/PAL • 10-bit BT.656 Output • Compatibility with expansion connector, standard on most Altera development kits

544-1704-ND (DK-VIDEO-TVP5146N) **$195.00**

PCI Development Kit with Cyclone™ II

The Cyclone II EP2C35 PCI Express Development Board provides a hardware platform for developing and prototyping PCI Express, DDR2 SDRAM, and the 10/100/1,000 Ethernet interface. Based on Cyclone II FPGAs and using Altera MegaCore functions or your own IP, Cyclone II EP2C35 PCI Express Development Board allows users to quickly solve design problems that typically require time-consuming and custom solutions.

649-1001-ND (KS-ALT-2C35-30) **$1500.00**

NEW!

www.terasic.com

DE2 Development and Education Board

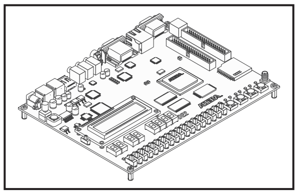

Specifications: FPGA: • Cyclone II EP2C35F672C6 FPGA and EPCS16 serial configuration device **I/O Devices:** • Built-in USB Blaster for FPGA configuration • 10/100 Ethernet, RS-232, Infrared port • Video Out (VGA 10-bit DAC) • Video In (NTSC/PAL/Multi-format) • USB 2.0 (type A and type B) • PS/2 mouse or keyboard port • Line-in, Line-out, microphone-in (24-bit audio CODEC) • Expansion headers (76 signal pins) **Memory:** • 8MB SDRAM, 512KB SRAM, 4MB Flash • SD memory card slot **Switches, LEDs, Displays and Clocks:** • 18 toggle switches • 4 debounced pushbutton switches • 18 red LEDs, 9 green LEDs • Eight 7-segment displays • 16 x 2 LCD display • 27MHz and 50MHz oscillators, external SMA clock input

P0301-ND (P0301) **$495.00**
***Note:** Academic pricing available; call Digi-Key for pricing.*

DE2-70 Development and Education Board

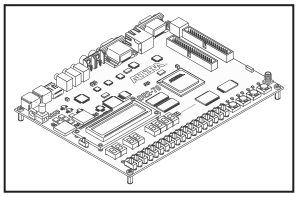

Includes: • Altera Cyclone® II 2C70 FPGA device • Altera Serial Configurations device EPCS16 • USB Blaster (on board) for programming and user API control; both JTAG and Active Serial (AS) programming modes are supported • 2-Mbyte SSRAM • Two 32-Mbyte SDRAM • 8-Mbyte Flash memory • SD Card socket • 4 pushbutton switches • 18 toggle switches • 18 red user LEDs • 9 green user LEDs • 50MHz oscillator and 28.63MHz oscillator for clock sources • 24-bit CD-quality audio CODEC with line-in, line-out and microphone-in jacks • VGA DAC (10-bit high-speed triple DACs) with VGA-out connector • 2 TV Decoder (NTSC/PAL/SECAM) and TV-in connector • 10/100 Ethernet Controller with a connector • USB Host/Slave Controller with USB type A and type B connectors • RS-232 transceiver and 9-pin connector • PS/2 mouse/keyboard connector • IrDA transceiver • 1 SMA connector • Two 40-pin Expansion Headers with diode protection

P0304-ND (P0304) **$599.00**
***Note:** Academic pricing available; call Digi-Key for pricing.*

DE1 Development and Education Board

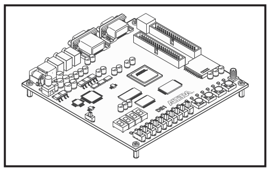

Specifications: FPGA: • Cyclone II EP2C20F484C7 FPGA and EPCS4 serial configuration device **I/O Devices:** • Built-in USB Blaster for FPGA configuration RS-232 port • VGA DAC resistor network (4096 colors) • PS/2 mouse or keyboard port • Line-in, Line-out, microphone-in (24-bit audio CODEC) • Expansion headers (76 signal pins) **Memory:** • 8-MB SDRAM, 512KB SRAM, 4MB Flash • SD memory card slot **Switches, LEDs, Displays and Clocks:** • 10 toggle switches • 4 debounced pushbutton switches • 10 red LEDs, 8 green LEDs • Four 7-segment displays • 27MHz and 50MHz oscillators, external SMA clock input

P0528-ND (P0528) **$159.38**

Digital Development Kits and Sensor

P0424-ND: The TRDB_LCM Kit provides everything you need to develop applications using a digital panel on the Altera DE2 board and Altera Cyclone II FPGA Starter Development Kit (CII Starter Kit). ***Kit Includes:*** • Complete reference designs and source code for implementing a TV player or a Color Pattern Generator using TRDB_LCM and Altera DE2/CII Starter Kits.
P0307-ND: The 4.3" Ultra-high Resolution LCD Touch Panel Development Kit provides users an 800 x 480 full-color high-quality LCD Touch Panel with complete reference designs with source code to allow users to develop applications using a touch panel on the Altera DE2-70/DE2/DE1 boards and Altera Cyclone II/Cyclone III Starter Kits.
P0349-ND: The TRDB_DC2 1.3 Mega Pixel Digital Camera module that provides everything you need to build a 1.3 Mega Pixel Digital Camera on the Altera DE2/DE1 board and CII Starter Kit. ***Kit Includes:*** • TRDB_DC2: 1.3 Mega Pixel Daughter card • Complete reference design with source code in Verilog • User Manual with Live Demo examples ***Note:** Must use M0344-ND with this module.*
M0344-ND: This CMOS Sensor is to be used with P0349-ND.

P0424-ND	(P0424) 3.6 Inch Digital Panel Development Kit	**$99.00**
P0307-ND	(P0307) 4.3 Inch Digital Touch Panel Development Kit	**$170.00**
P0349-ND	(P0349) 1.3 Mega Pixel Digital Camera Development Kit	**$70.00**
M0344-ND	(M0344) Sensor for use with P0349-ND	**$20.00**

CPLDs (Complex Programmable Logic Devices)

Atmel offers a broad range of high-density, low-power, and cost-effective solutions enabling designers to create products that are "just what the market ordered." Based on a standard architecture, which uses industry standard development tools, Atmel's CPLDs offer the unique low-power or "L" feature while providing 100% connectivity. These devices are processed with Atmel's proprietary 0.65-micron processes and have a EEPROM memory.

The ATF750/C CPLDs are based on a 22V10-type architecture and provide market-leading capacity and flexibility in a 22V10 footprint with twice the registers and additional features for better logic utilization.

The ATF1500 Series is targeted at wider logic density, with higher number of I/O's. This family has devices from 44 ~ 160 pins, and 32 ~ 96 I/O's. High connectivity, and flexible architecture make these parts highly suitable for system design. In system programmability in the larger devices allow for reconfiguration even after the device is in the system.

Standard Development Tools:
Atmel's philosophy is that designers should be able to use known development tools. Third-party design tools such as Synario™, ABEL™, CUPL™, PPLDesigner-XL™, LOG/iC™, and PLDSyn™ support Atmel's EPLDs. Also Atmel-specific versions of the popular Synario, ABEL, and CUPL design tools are offered. In addition, workstation support is available on popular platforms with Viewlogic, MINC, Cadence, Mentor, and Synopsys.

Voltage	ISP	Tpd (ns)	Registers	Macro-cells	Usable Gates	Power Option	Package Type	Digi-Key Part No.	Price Each			Atmel Part No.
									1	25	100	
ATF750 Series												
5.0	No	7.5	20	10	500	Standard	28-PLCC	ATF750C-7JC-ND	8.06	5.81	5.44	ATF750C-7JC
							24-DIP	ATF750C-7PC-ND	8.88	6.39	5.98	ATF750C-7PC
							24-SOIC	ATF750C-7SC-ND	8.06	5.81	5.44	ATF750C-7SC
5.0	No	10	20	10	500	Standard	28-PLCC	ATF750C-10JU-ND◆	6.45	4.65	4.35	ATF750C-10JU
							24-DIP	ATF750C-10PU-ND◆	6.45	4.65	4.35	ATF750C-10PU
							24-SOIC	ATF750C-10SC-ND	6.45	4.62	4.32	ATF750C-10SC
5.0	No	15	20	10	750	Standard	28-PLCC	ATF750C-15JC-ND	4.52	3.26	3.05	ATF750C-15JC
							24-DIP	ATF750C-15PC-ND	4.97	3.58	3.35	ATF750C-15PC
							24-SOIC	ATF750C-15SC-ND	4.52	3.26	3.05	ATF750C-15SC
5.0	No	15	20	10	750	Low	28-PLCC	ATF750CL-15JC-ND	4.52	3.26	3.05	ATF750CL-15JC
							24-DIP	ATF750CL-15PC-ND	4.97	3.58	3.35	ATF750CL-15PC
							24-SOIC	ATF750CL-15SC-ND	4.52	3.26	3.05	ATF750CL-15SC
3 ~ 3.6	No	15	20	10	500	Standard	28-PLCC	ATF750LVC-15JC-ND	4.52	3.26	3.05	ATF750LVC-15JC
							24-DIP	ATF750LVC-15PC-ND	4.97	3.58	3.35	ATF750LVC-15PC
							24-SOIC	ATF750LVC-15SC-ND	4.97	3.58	3.35	ATF750LVC-15SC
							24-TSSOP	ATF750LVC-15XU-ND◆	4.52	3.26	3.05	ATF750LVC-15XU
ATF1500 Series												
5.0	No	10	32	32	1500	Standard	44-TQFP	ATF1500A-10AU-ND◆	4.06	2.91	2.72	ATF1500A-10AU
							44-PLCC	ATF1500A-10JU-ND◆	4.06	2.91	2.72	ATF1500A-10JU
5.0	No	20	32	32	1000	Low	44-TQFP	ATF1500AL-20AU-ND◆	4.24	3.03	2.84	ATF1500AL-20AU
							44-PLCC	ATF1500AL-20JU-ND◆	4.24	3.03	2.84	ATF1500AL-20JU
5.0	Yes	10	32	32	750	Standard	44-PLCC	ATF1502AS-10JU44-ND◆	3.50	2.36	2.03	ATF1502AS-10JU44
							44-TQFP	ATF1502AS-10AU44-ND◆	3.50	2.36	2.03	ATF1502AS-10AU44
5.0	Yes	25	32	32	750	Low	44-TQFP	ATF1502ASL-25AU44-ND◆	3.50	2.68	2.36	ATF1502ASL-25AU44
							44-PLCC	ATF1502ASL-25JU44-ND◆	3.50	2.68	2.36	ATF1502ASL-25JU44
3 ~ 3.6	Yes	15	—	—	—	Standard	44-TQFP	ATF1502ASV-15AU44-ND◆	2.82	1.90	1.64	ATF1502ASV-15AU44
							44-PLCC	ATF1502ASV-15JU44-ND◆	2.82	1.90	1.64	ATF1502ASV-15JU44
3 ~ 3.6	Yes	20	32	32	750	Standard	44-TQFP	ATF1502ASV-20AC44-ND	2.11	1.42	1.23	ATF1502ASV-20AC44
1.8	Yes	7	32	32	750	Ultra Low	44-TQFP	ATF1502BE-7AU44-ND◆	2.26	1.47	1.40	ATF1502BE-7AU44
5.0	Yes	10	64	64	1500	Standard	44-PLCC	ATF1504AS-10JC44-ND	4.82	3.23	2.80	ATF1504AS-10JC44
							44-TQFP	ATF1504AS-10AU44-ND◆	5.83	3.93	3.39	ATF1504AS-10AU44
							84-PLCC	ATF1504AS-10JC84-ND	6.13	4.13	3.56	ATF1504AS-10JC84
							100-TQFP	ATF1504AS-10AU100-ND◆	6.82	5.23	4.59	ATF1504AS-10AU100
5.0	Yes	20	64	64	1500	Low	44-TQFP	ATF1504ASL-20AC44-ND	4.62	3.11	2.68	ATF1504ASL-20AC44
							100-TQFP	ATF1504ASL20AC100-ND	5.70	3.84	3.31	ATF1504ASL-20AC100
5.0	Yes	25	64	64	1500	Low	44-TQFP	ATF1504ASL-25AU44-ND◆	6.75	4.55	3.92	ATF1504ASL-25AU44
							44-PLCC	ATF1504ASL-25JU44-ND◆	6.92	4.67	4.03	ATF1504ASL-25JU44
							100-TQFP	ATF1504ASL-25AU100-ND◆	7.76	5.23	4.51	ATF1504ASL-25AU100
3 ~ 3.6	Yes	15	64	64	1500	Standard	44-TQFP	ATF1504ASV-15AU44-ND◆	4.62	3.01	2.69	ATF1504ASV-15AU44
							44-PLCC	ATF1504ASV-15JC44-ND	3.59	2.34	2.09	ATF1504ASV-15JC44
							44-PLCC	ATF1504ASV-15JU44-ND◆	4.52	2.94	2.63	ATF1504ASV-15JU44
							100-TQFP	ATF1504ASV-15AU100-ND◆	6.24	4.06	3.63	ATF1504ASV-15AU100
3 ~ 3.6	Yes	20	64	64	1500	Low	44-TQFP	ATF1504ASVL-20AU44-ND◆	4.95	3.22	2.88	ATF1504ASVL-20AU44
							44-PLCC	ATF1504ASVL-20JU44-ND◆	4.84	3.15	2.81	ATF1504ASVL-20JU44
3 ~ 3.6	Yes	20	64	64	1500	Low	100-TQFP	ATF1504ASVL-20AU100-ND◆	6.67	4.34	3.88	ATF1504ASVL-20AU100
5.0	Yes	7.5	128	128	3000	Standard	100-TQFP	ATF1508AS-7AC100-ND	16.94	11.42	9.45	ATF1508AS-7AC100
5.0	Yes	10	128	128	3000	Standard	84-PLCC	ATF1508AS-10JU84-ND◆	14.68	9.90	8.19	ATF1508AS-10JU84
							100-TQFP	ATF1508AS-10AU100-ND◆	18.19	12.27	10.16	ATF1508AS-10AU100
							100-PQFP	ATF1508AS-10QU100-ND◆	25.43	17.15	14.19	ATF1508AS-10QU100
5.0	Yes	20	128	128	3000	Low	84-PLCC	ATF1508ASL-20JC84-ND	9.57	6.45	5.34	ATF1508ASL-20JC84
							100-TQFP	ATF1508ASL20AC100-ND	11.95	8.07	6.68	ATF1508ASL-20AC100
5.0	Yes	25	28	128	3000	Low	84-PLCC	ATF1508ASL-25JU84-ND◆	12.64	8.52	7.05	ATF1508ASL-25JU84
							100-TQFP	ATF1508ASL-25AU100-ND◆	15.67	10.56	8.74	ATF1508ASL-25AU100
3 ~ 3.6	Yes	15	128	128	3000	Standard	84-PLCC	ATF1508ASV-15JU84 -ND◆	4.84	3.26	2.81	ATF1508ASV-15JU84
							100-TQFP	ATF1508ASV-15AU100-ND◆	5.38	3.63	3.13	ATF1508ASV-15AU100
3 ~ 3.6	Yes	20	128	128	3000	Low	100-TQFP	ATF1508ASVL-20AU100-ND◆	5.59	3.77	3.25	ATF1508ASVL-20AU100
							84-PLCC	ATF1508ASVL-20JU84-ND◆	5.05	3.41	2.94	ATF1508ASVL-20JU84
ATF2500 Series												
5.0	No	15	48	24	1500	Standard	44-PLCC	ATF2500C-15JU-ND◆	8.47	6.50	5.71	ATF2500C-15JU
		20				Standard	44-PLCC	ATF2500C-20JC-ND	5.72	4.39	3.86	ATF2500C-20JC
		20				Standard	40-DIP	ATF2500C-20PU-ND◆	7.55	5.80	5.09	ATF2500C-20PU
		20				Low	40-PLCC	ATF2500CL-20JI-ND†	6.19	4.76	4.18	ATF2500CL-20JI

◆ ***RoHS Compliant*** † Industrial Temperature

ATF15xx-DK3 CPLD Development Kit

The Atmel CPLD Development/Programmer Kit is a complete development system and an In-System programmer for the ATF15xx family of industry standard pin compatible Complex Programmable Logic Devices with Logic Doubling features. This kit provides designers a very quick and easy way to develop prototypes and evaluate new designs with an ATF15xx ISP CPLD. The ATF15xx family of ISP CPLDs includes the ATF15xxAS, ATF15xxASL, ATF15xxASV, ATF15xxASVL, and ATF15xxBE CPLDs. With the availablility of the different Socket Adapter Boards to support all the package types offered in the ATF15xx family of ISP CPLDs, this CPLD Development/Programmer Board can be used as an ISP programmer to program the ATF15xx ISP CPLDs in all the available package types through the industry standard JTAG interface (IEEE 1149.1)

CPLD Demo Board/Programmer Board: • 84-lead PLCC Adapter • ISP (JAT) Port • Wire-wrap Terminal Holes-all Pins • 2 MHz Crystal Oscillator • Eight 8-segment LED Displays • 5V and 3.3V Vcc operation • Easy access to CPLD I/O pins • Global Clear, Output Enable and Power Switches **Logic Doubling™ CPLDs:** • ATF1508ASVL-20JC84 3.3V Low-power 128 Macrocell CPLD with ISP **CPLD Programmable Cable:** • 5V and 3.3V ISP cable for PC parallel port with Vcc Auto Detection **Software CD:** • Free Atmel-WinCUPL design software and User's Manual • 30-day Trial Version of Atmel-ProChip Designer™ software • Logic Doubling Support and Documentation • Logic Doubling Reference • Atmel Databook CD **Atmel-ProChip Designer: Design Entry**: • VHDL, Schematic, and CUPL • Synthesis • Functional Simulation • Atmel Proprietary Device Filters with Logic Doubling • Timing Simulation

ATF15XX-DK3-ND	CPLD Development Kit for ATF15XX	**$99.00**
ATF15XXDK3-SAA100-ND	100-PLCC/TQFP Adapter Socket for ATF15XXB	**$135.00**
ATF15XXDK3-SAJ44-ND	84/44 PLCC Adapter Socket for ATF15XXBE	**$35.00**
ATF15XXDK3-SAJ84-ND	84/84 PLCC Adapter Socket for ATF15XXBE	**$50.00**
ATDS1500PC-ND	4.0 Prochip Design Software	**$99.00**
ATDS15XXXKSW1-ND	5.0 Prochip Software License	**$99.00**

FPGA Configurator Programming Kit (Enhanced) ATDH2200E

Atmel offers a low cost development kit for the designer who wishes to begin working with the AT17 Series of ISP FPGA configuration memories. The kit allows designers to read, write and in-system program any of Atmel's AT17 series family members directly from a PC. All standard file input formats produced by the various FPGA vendors are supported. The AT17 series devices can be programmed directly on the programming board or the board can be used to facilitate in-system programming of the AT17 series devices in the target application (cable provided). The ATDH2200E supports all Atmel AT17 series configuration memories.

FEATURES:

Hardware: • Supports Programming of all AT17C/LV Series Devices • Connection to Allow In-System Prog. (ISP) • 5.0V or 3.0V Supply **Software:** • CPS - Configurator Programming System • GUI-based Interface • Supports Win95/Win98/WinNT • Online Help • Supports Programming Reset Polarity • Verification Routines to Validate Programming • Accepts HEX, MCS, POF, RBF and BST File Formats **System Contents:** • ATDH2200 Programming Board • ATDH2222 20-pin PLCC Adapter • CPS Software • ATDH2200E Datasheet • ATDH2200E Programming Kit User Guide • Standard (PC Printer Port) Parallel Cable • 10-pin Ribbon Cable for ISP • 9V DC, 200 mA, 2.1 mm Center Positive Power Supply • Sample AT17C/LV Devices

ATDH2200E-ND	FPGA Configurator Program Kit	**$149.00**
ATDH2221-ND	20-SOIC Adapter	**$148.96**
ATDH2222-ND	20-PLCC Adapter	**$148.96**
ATDH2224-ND	44-TQFP Adapter	**$149.00**
ATDH2225-ND	AT17 ISP Cable	**$95.00**
ATDH2227-ND	44-PLCC Adapter	**$149.00**
ATDH2227A-ND	44-PLCC Adapter	**$149.00**
ATDH2228-ND	8-LAP Adapter	**$149.00**

FPGA Configuration Memory

In-System Reprogrammable Serial EEPROMs

The AT17 Series FPGA Configuration EEPROMs (Configurators) provide an easy-to-use, cost-effective configuration memory for Field Programmable Gate Arrays. It uses a simple serial-access procedure to configure one or more FPGA devices. The organization supplies enough memory to configure one or multiple smaller FPGAs. The Configurators can be programmed with industry-standard programmers or Atmel's ATDH2200E Programming System. **FEATURES:** • EE Programmable Serial Memories Designed to Store Configuration Programs for Field Programmable Gate Arrays (FPGAs) • In-System Programmable via 2-wire Bus • Simple Interface to SRAM FPGAs • Compatible with Atmel AT6000, AT40K, AT94K, Altera® FLEX®, APEX™ Devices, ORCA®, Xilinx® XC3000, XC4000, XC5200, Spartan®, Virtex™ FPGAs • Cascadable Read-back to Support Additional Configurations or Future Higher-density Arrays • Low-power CMOS EEPROM Process • Programmable Reset Polarity • Available in LAP, PDIP, SOIC, PLCC and TQFP Packages (Pin Compatible Across Product Family) • Emulation of Atmel's AT24CXXX Serial EEPROMs • Available in 3.3V ± 10% LV and 5V ± 5% C versions • System-friendly READY Pin • Low-power Standby Mode

Memory Size	Package Options	Digi-Key Part No.	Price Each			Atmel Part No.
			1	25	100	
64Kbit	8-DIP	AT17LV65-10PI-ND	6.45	4.38	4.14	AT17LV65-10PI
	8-DIP	AT17LV65-10PC-ND	5.81	3.94	3.73	AT17LV65-10PC
	8-SOIC	AT17LV65-10NI-ND	7.74	5.26	4.97	AT17LV65-10NI
	8-SOIC	AT17LV65-10NC-ND	6.45	4.38	4.14	AT17LV65-10NC
	8-LAP	AT17LV65-10CI-ND	6.97	5.38	4.88	AT17LV65-10CI
	8-LAP	AT17LV65-10CC-ND	5.55	4.37	3.94	AT17LV65-10CC
	20-SOIC	AT17LV65-10SI-ND	7.74	5.26	4.97	AT17LV65-10SI
	20-SOIC	AT17LV65-10SC-ND	6.45	4.38	4.14	AT17LV65-10SC
	20-PLCC	AT17LV65-10JI-ND	6.45	4.38	4.14	AT17LV65-10JI
	20-PLCC	AT17LV65-10JC-ND	5.81	3.94	3.73	AT17LV65-10JC
128Kbit	8-DIP	AT17LV128-10PI-ND	12.90	8.76	8.28	AT17LV128-10PI
	8-DIP	AT17LV128-10PC-ND	10.32	7.01	6.62	AT17LV128-10PC
	8-SOIC	AT17LV128-10NI-ND	16.51	11.21	10.60	AT17LV128-10NI
	8-SOIC	AT17LV128-10NC-ND	13.42	9.11	8.61	AT17LV128-10NC
	8-LAP	AT17LV128-10CI-ND	11.14	8.30	7.58	AT17LV128-10CI
	8-LAP	AT17LV128-10CC-ND	8.88	6.73	6.12	AT17LV128-10CC
	20-SOIC	AT17LV128-10SI-ND	16.51	11.21	10.60	AT17LV128-10SI
	20-SOIC	AT17LV128-10SC-ND	13.42	9.11	8.61	AT17LV128-10SC
	20-PLCC	AT17LV128-10JI-ND	15.48	10.51	9.94	AT17LV128-10JI
	20-PLCC	AT17LV128-10JC-ND	12.38	8.41	7.95	AT17LV128-10JC
256Kbit	8-DIP	AT17LV256-10PU-ND◆	12.04	8.18	7.73	AT17LV256-10PU
	8-SOIC	AT17LV256-10NI-ND	14.45	9.81	9.27	AT17LV256-10NI
	8-SOIC	AT17LV256-10NU-ND◆	12.04	8.18	7.73	AT17LV256-10NU
	8-LAP	AT17LV256-10CU-ND◆	12.04	8.18	7.73	AT17LV256-10CU
	24-SOIC	AT17LV256-10SU-ND◆	14.45	9.81	9.27	AT17LV256-10SU
	20-PLCC	AT17LV256-10JU-ND◆	12.04	8.18	7.73	AT17LV256-10JU
512Kbit	8-DIP	AT17LV512-10PI-ND	16.13	10.95	10.35	AT17LV512-10PI
	8-DIP	AT17LV512-10PC-ND	14.51	9.86	9.32	AT17LV512-10PC
	8-DIP	AT17LV512A-10PI-ND	8.06	5.48	5.18	AT17LV512A-10PI
	8-DIP	AT17LV512A-10PC-ND	7.27	4.93	4.66	AT17LV512A-10PC
	8-LAP	AT17LV512-10CI-ND	17.42	11.83	11.18	AT17LV512-10CI
	8-LAP	AT17LV512-10CC-ND	13.87	9.42	8.90	AT17LV512-10CC
	8-LAP	AT17LV512-10CU-ND◆	16.13	11.57	10.94	AT17LV512-10CU
	20-SOIC	AT17LV512-10SI-ND	19.35	13.14	12.42	AT17LV512-10SI
	20-SOIC	AT17LV512-10SC-ND	16.13	10.95	10.35	AT17LV512-10SC
	20-PLCC	AT17LV512A-10JU-ND◆	8.06	5.48	5.18	AT17LV512A-10JU
1-Mbit	8-DIP	AT17LV010-10PC-ND	22.27	15.13	14.30	AT17LV010-10PC
	8-DIP	AT17LV010-10PU-ND◆	22.27	15.13	14.30	AT17LV010-10PU
	8-DIP	AT17LV010A-10PI-ND	14.34	9.74	9.21	AT17LV010A-10PI
	8-DIP	AT17LV010A-10PC-ND	17.20	11.69	11.05	AT17LV010A-10PC

Memory Size	Package Options	Digi-Key Part No.	Price Each			Atmel Part No.
			1	25	100	
1-Mbit	8-LAP	AT17LV010-10CU-ND◆	22.27	15.13	14.30	AT17LV010-10CU
	20-SOIC	AT17LV010-10SI-ND	35.65	24.20	22.89	AT17LV010-10SI
	20-SOIC	AT17LV010-10SC-ND	28.96	19.66	18.59	AT17LV010-10SC
	20-PLCC	AT17LV010-10JU-ND◆	26.72	18.15	17.16	AT17LV010-10JU
	20-PLCC	AT17LV010A-10JU-ND◆	17.20	11.69	11.05	AT17LV010A-10JU
	32-TQFP	AT17LV010A-10QI-ND	21.52	14.61	13.81	AT17LV010A-10QI
	32-TQFP	AT17LV010A-10QC-ND	17.20	11.69	11.05	AT17LV010A-10QC
2-Mbit	8-LAP	AT17LV002-10CC-ND	34.79	24.01	22.18	AT17LV002-10CC
	8-LAP	AT17LV002-10CU-ND◆	25.80	17.40	16.20	AT17LV002-10CU
	24-SOIC	AT17LV002-10SU-ND◆	28.38	19.14	17.82	AT17LV002-10SU
	20-PLCC	AT17LV002-10JU-ND◆	25.80	17.40	16.20	AT17LV002-10JU
	20-PLCC	AT17LV002A-10JU-ND◆	21.50	14.59	13.79	AT17LV002A-10JU
	44-TQFP	AT17LV002-10TQI-ND	49.71	33.57	31.11	AT17LV002-10TQI
	44-TQFP	AT17LV002-10TQC-ND	39.75	27.21	25.17	AT17LV002-10TQC
4-Mbit	8-LAP	AT17F040-30CC-ND	16.04	12.13	11.43	AT17F040-30CC
	8-LAP	AT17F040-30CU-ND◆	15.05	9.45	8.75	AT17F040-30CU
	8-LAP	AT17F040A-30CU-ND◆	10.75	6.75	6.25	AT17F040A-30CU
	20-PLCC	AT17F040-30JU-ND◆	17.31	10.87	10.06	AT17F040-30JU
	20-PLCC	AT17F040A-30JU-ND◆	12.36	7.76	7.19	AT17F040A-30JU
	32-TQFP	AT17F040A-30QC-ND	10.75	6.75	6.25	AT17F040A-30QC
	32-TQFP	AT17F040A-30QI-ND	12.36	7.76	7.19	AT17F040A-30QI
	44-TQFP	AT17LV040-10TQU-ND◆	51.60	35.04	33.12	AT17LV040-10TQU
8-Mbit	8-LAP	AT17F080-30CU-ND◆	25.80	16.20	15.00	AT17F080-30CU
	8-LAP	AT17F080A-30CU-ND◆	17.20	10.80	10.00	AT17F080A-30CU
	20-PLCC	AT17F080-30JU-ND◆	29.67	18.63	17.25	AT17F080-30JU
	20-PLCC	AT17F080A-30JU-ND◆	19.78	12.42	11.50	AT17F080A-30JU
	32-TQFP	AT17F080A-30QC-ND	17.20	10.80	10.00	AT17F080A-30QC
	32-TQFP	AT17F080A-30QI-ND	19.78	12.42	11.50	AT17F080A-30QI
	44-TQFP	AT17F080-30TQI-ND	44.51	33.67	31.74	AT17F080-30TQI
16-Mbit	8-LAP	AT17F16-30CU-ND◆	32.25	20.25	18.75	AT17F16-30CU
	8-LAP	AT17F16A-30CU-ND◆	30.10	18.90	17.50	AT17F16A-30CU
	20-PLCC	AT17F16-30JU-ND◆	37.09	23.29	21.57	AT17F16-30JU
	20-PLCC	AT17F16A-30JU-ND◆	34.62	21.74	20.13	AT17F16A-30JU
	44-TQFP	AT17F16-30TQC-ND	32.25	20.25	18.75	AT17F16-30TQC
	44-TQFP	AT17F16-30TQI-ND	37.09	23.29	21.57	AT17F16-30TQI
32-Mbit	44-PLCC	AT17F32-30BJU-ND◆	59.34	45.54	40.02	AT17F32-30BJU
	44-PLCC	AT17F32A-30BJU-ND◆	59.34	45.54	40.02	AT17F32A-30BJU

◆ ***RoHS Compliant***

FPGA's (Field Programmable Gate Arrays)

AT40K Series FPGAs

Atmel's AT40K Series coprocessor FPGAs range from 5K to 50K usable gates, and are designed for high density, compute-intensive DSP and other fast logic designs. The AT40K family solves the Logic vs. SRAM trade-off problem by providing fast, flexible, distributed 10ns FreeRAM™ without using valuable logic resources. Structured logic functions, including variable array multipliers can be implemented directly in core cells without using any bussing resources - providing dramatic improvements in speed, utilization, power and system cost. The AT40K family has the ability to implement Cache Logic design, where part of the FPGA can be reprogrammed without loss of register data, while the remainder of the FPGA continues to operate without disruption. This is ideal for building adaptive filters, variable coefficient multipliers and other designs where the datapath can change to increase system performance. All Atmel FPGAs can be designed using industry standard CAE tools for schematics, VHDL and Verilog on a PC, Sun, or HP workstation. Software tools are available on Atmel's website at: http://www.atmel.com/fpga_software.html

Features:
• Distributed, single/dual port 10ns SRAM, independent of logic cells • Up to 384 PCI compliant I/Os • Mixed 3V/5V capability • Architecture optimized for efficient, ultrafast array multipliers • Cache Logic® dynamic full/partial reconfigurability in-system • Eight global clocks • Efficient, industry-standard design tools, optimized for synthesis • QuickChange™ tools for adaptive hardware designs • Variety of surface mount packages • All devices in family are pin-compatible

Usable Gates	Cells	Ram (Bits)	Speed (ns)	Vcc	I/O (Maximum)	Package Options	Digi-Key Part No.	Price Each		
								1	25	100
5K-10K	256	2,048	2	5.0	62	84-PLCC	AT40K05-2AJI-ND	29.67	20.15	19.05
					114	144-LQFP	AT40K05-2BQC-ND	28.92	19.60	18.55
					128	160-PQFP	AT40K05-2CQC-ND	29.13	19.80	18.70

(Continued)

FPGA's (Field Programmable Gate Arrays) *(Cont.)*

Usable Gates	Cells	Ram (Bits)	Speed (ns)	Vcc	I/O (Maximum)	Package Options	Digi-Key Part No.	Price Each		
								1	25	100
5K ~ 10K	256	2,048	2	5.0	128	208-PQFP	AT40K05-2DQI-ND	33.54	22.80	21.55
					128	208-PQFP	AT40K05-2DQC-ND	29.13	19.80	18.70
5K ~ 10K	256	2,048	1	3.3	62	84-PLCC	AT40K05AL-1AJC-ND	12.90	8.75	8.30
					78	100-TQFP	AT40K05AL-1AQC-ND	14.62	9.90	9.35
					128	208-PQFP	AT40K05AL-1DQC-ND	14.62	9.90	9.35
					128	208-PQFP	AT40K05AL-1DQI-ND	16.77	11.40	10.75
5K ~ 10K	256	2,048	3	3.3	128	208-PQFP	AT40K05LV-3DQC-ND	19.78	14.16	13.01
10K ~ 20K	576	4,608	2	5.0	62	84-PLCC	AT40K10-2AJC-ND	38.70	26.30	24.86
					62	84-PLCC	AT40K10-2AJI-ND	44.51	30.20	28.56
					78	100-TQFP	AT40K10-2AQC-ND	43.75	29.70	28.05
					114	144-LQFP	AT40K10-2BQC-ND	43.32	29.45	27.80
					161	208-PQFP	AT40K10-2DQC-ND	43.75	29.70	28.05
10K ~ 20K	576	4,608	3	3.3	161	208-PQFP	AT40K10LV-3DQC-ND	29.67	20.68	19.08
20K ~ 30K	1,024	8,192	2	5.0	62	84-PLCC	AT40K20-2AJC-ND	68.80	46.70	44.16
					62	84-PLCC	AT40K20-2AJI-ND	79.12	53.75	50.80
					114	144-LQFP	AT40K20-2BQC-ND	77.72	52.80	49.90
					161	208-PQFP	AT40K20-2DQC-ND	77.72	52.80	49.90
					161	208-PQFP	AT40K20-2DQI-ND	89.44	60.75	57.41
					193	240-PQFP	AT40K20-2EQC-ND	77.72	52.80	49.90
					193	240-PQFP	AT40K20-2EQI-ND	89.44	60.75	57.41
40K ~ 50K	2,304	18,432	2	5.0	114	144-LQFP	AT40K40-2BQC-ND	162.65	110.45	104.40
					161	208-PQFP	AT40K40-2DQC-ND	162.65	110.45	104.40
40K ~ 50K	2,304	18,432	1	3.3	114	144-TQFP	AT40K40AL-1BQI-ND	83.85	56.95	53.81
					161	208-PQFP	AT40K40AL-1DQI-ND	83.85	56.95	53.81
					193	240-PQFP	AT40K40AL-1EQI-ND	83.85	56.95	53.81
40K ~ 50K	2,304	18,432	3	3.3	114	144-TQFP	AT40K40LV-3BQC-ND	113.52	73.18	68.11

SPLDs (PAL Compatible 16V8, 20V8, 22V10)

Atmel SPLDs are products based on the classic PAL architecture and consist of the popular industry standard 16V8, 20V8, and 22V10 in different speed, package, and power specifications. Supported by a wide variety of development tools, these variations offer features such as quarter-power, low standby power, and zero (<25µA) standby power. Atmel's family of Flash-based electrically erasable devices combine proven high-performance and low-power technologies.

Usable Gates	Macro-Cells	Reg.	Tpd (ns)	(V)	Power Opt.	Package Type	Digi-Key Part No.	Price Each		
								1	25	100
250	8	8	10	5.0	Std.	20-PLCC	ATF16V8B-10JU-ND◆	1.68	1.11	.98
						20-Dip	ATF16V8B-10PC-ND	1.30	1.11	.98
						20-SOIC	ATF16V8B-10SC-ND	1.30	1.11	.98
250	8	8	15	5.0	Low	20-SOIC	ATF16V8B-15SU-ND◆	.65	.55	.49
250	8	8	10	5.0	Qtr	20-PLCC	ATF16V8BQ-10JC-ND	2.26	1.52	1.31
						20-Dip	ATF16V8BQ-10PC-ND	2.26	1.52	1.31
						20-SOIC	ATF16V8BQ-10SC-ND	2.26	1.52	1.31
250	8	8	15	5.0	Qtr & Low	20-PLCC	ATF16V8BQL-15JU-ND◆	1.24	1.04	.89
						20-Dip	ATF16V8BQL-15PU-ND◆	1.24	1.04	.89
						20-SOIC	ATF16V8BQL-15SU-ND◆	1.07	1.00	.93
						20-TSSOP	ATF16V8BQL-15XU-ND◆	2.02	1.70	1.32
250	8	8	5.0	5.0	Qtr & Std.	20-PLCC	ATF16V8C-5JC-ND	2.80	2.15	1.73
250	8	8	7.5	5.0	Std.	20-PLCC	ATF16V8C-7JU-ND◆	3.12	2.57	2.08
						20-Dip	ATF16V8C-7PU-ND◆	2.40	1.98	1.60
						20-SOIC	ATF16V8C-7SU-ND◆	3.12	2.57	2.08
						20-TSSOP	ATF16V8C-7XU-ND◆	3.78	2.90	2.34
250	8	8	12	5.0	Std. & Zero	20-PLCC	ATF16V8CZ-12JC-ND	3.23	2.47	1.99
						20-Dip	ATF16V8CZ-12PC-ND	3.23	2.47	1.99
						20-SOIC	ATF16V8CZ-12SC-ND	3.23	2.47	1.99
250	8	8	15	5.0	Zero	20-PLCC	ATF16V8CZ-15JU-ND◆	2.30	1.90	1.53
						20-Dip	ATF16V8CZ-15PU-ND◆	2.30	1.90	1.53
						20-SOIC	ATF16V8CZ-15SU-ND◆	2.30	1.90	1.53
						20-TSSOP	ATF16V8CZ-15XU-ND◆	3.23	2.47	1.99
250	8	8	10	3.0 ~ 5.5	Std.	20-PLCC	ATF16LV8C-10JC-ND	2.69	1.69	1.56
						20-Dip	ATF16LV8C-10PC-ND	2.69	1.69	1.56
						20-Dip	ATF16LV8C-10PI-ND	3.50	2.19	2.03
						20-SOIC	ATF16LV8C-10SC-ND	2.69	1.69	1.56
						20-SOIC	ATF16LV8C-10SI-ND	3.50	2.19	2.03
						20-TSSOP	ATF16LV8C-10XU-ND◆	2.69	1.69	1.56

Usable Gates	Macro-Cells	Reg.	Tpd (ns)	(V)	Power Opt.	Package Type	Digi-Key Part No.	Price Each		
								1	25	100
300	8	8	10	5.0	Std.	28-PLCC	ATF20V8B-10JU-ND◆	2.48	2.18	1.88
						24-Dip	ATF20V8B-10PU-ND◆	3.22	2.83	2.44
500	10	10	5.0	5.0	Std.	28-PLCC	ATF22V10C-5JC-ND	6.45	4.34	3.74
500	10	10	7.5	5.0	Std.	24-Dip	ATF22V10C-7PC-ND	3.23	2.18	1.88
						24-SOIC	ATF22V10C-7SC-ND	3.23	2.18	1.88
500	10	10	10	5.0	Std.	28-PLCC	ATF22V10C-10JU-ND◆	2.82	1.90	1.64
			10			24-Dip	ATF22V10C-10PC-ND	2.26	1.52	1.31
			10			24-SOIC	ATF22V10C-10SC-ND	2.26	1.52	1.31
			15			28-PLCC	ATF22V10C-15JU-ND◆	2.43	1.63	1.41
			15			24-Dip	ATF22V10C-15PU-ND◆	2.43	1.63	1.41
500	10	10	15	5.0	Qtr	28-PLCC	ATF22V10CQ-15JC-ND	2.37	1.60	1.38
						24-Dip	ATF22V10CQ-15PC-ND	2.15	1.45	1.25
						24-SOIC	ATF22V10CQ-15SC-ND	2.15	1.45	1.25
500	10	10	20	5.0	Qtr & Zero	28-PLCC	ATF22V10CQZ-20JU-ND◆	3.35	2.27	1.95
						24-Dip	ATF22V10CQZ-20PU-ND◆	3.35	2.27	1.95
						24-SOIC	ATF22V10CQZ-20SU-ND◆	3.35	2.27	1.95
						24-TSSOP	ATF22V10CQZ-20XU-ND◆	3.35	2.27	1.95
500	10	10	12	5.0	Std. & Zero	28-PLCC	ATF22V10CZ-12JC-ND	6.45	4.35	3.60
						24-Dip	ATF22V10CZ-12PC-ND	6.45	4.35	3.60
						24-SOIC	ATF22V10CZ-12SC-ND	6.45	4.35	3.60
500	10	10	15	5.0	Std. & Zero	28-PLCC	ATF22V10CZ-15JC-ND	4.32	3.48	2.88
						24-Dip	ATF22V10CZ-15PC-ND	4.32	3.48	2.88
						24-SOIC	ATF22V10CZ-15SC-ND	4.32	3.48	2.88
500	10	10	10	3.0 ~ 5.0	Std.	28-PLCC	ATF22LV10C-10JU-ND◆	2.93	2.36	1.95
						24-Dip	ATF22LV10C-10PU-ND◆	2.93	2.36	1.95
						24-SOIC	ATF22LV10C-10SU-ND◆	3.50	2.36	1.95
						24-TSSOP	ATF22LV10C-10XU-ND◆	3.14	2.36	1.95
500	10	10	25	3.0 ~ 5.5	Std. & Zero	28-PLCC	ATF22LV10CZ-25JC-ND	3.23	2.18	1.80
						24-Dip	ATF22LV10CZ-25PC-ND	3.23	2.18	1.80
						24-SOIC	ATF22LV10CZ-25SC-ND	3.23	2.18	1.80
500	10	10	30	3.0 ~ 5.5	Qtr & Zero	28-PLCC	ATF22LV10CQZ-30JU-ND◆	3.23	2.18	1.80
						24-Dip	ATF22LV10CQZ-30PU-ND◆	2.70	2.18	1.80
						24-SOIC	ATF22LV10CQZ-30SU-ND◆	3.23	2.18	1.80

◆ ***RoHS Compliant***

AT91 ARM® Thumb® Microcontrollers

The best combination of low-power consumption, 32-bit performance and 16-bit system cost. The AT91 series provides the optimal combination of processing power, peripherals and memory blocks for demanding real-time applications that require high performance on a tight power budget. Its wide range of Real Time Operating Systems and sophisticated application development tools minimize the risk and time taken to bring new applications to the market.

Features: • 3-stage instruction execution pipeline for high instruction throughout • Single-cycle memory access through EBI • Hardware multiplier-plus-barrel shifter gives DSP capability • PDC channels (on-chip DMA) free the processor for the application • Advanced power management provides idle mode and disables unused peripherals • Low-latency Advanced Interrupt Controller • Operating Temperature: Industrial -40°C ~ 85°C • Watchdog Timer

Program Memory Type	Memory Size			I/O Pins	USART	TWI	SPI	Timer/ Counters (16-bit)	ADC	DAC	Clock Speed (MHz)	VCC (Core)	Package	Digi-Key Part No.	Price Each		
	Program Bytes	RAM Bytes	Boot ROM Bytes												1	25	100
—	—	8K	—	32	2	—	—	3	—	—	40	1.8 ~ 3.6V	100-TQFP	AT91M40800-33AU-ND	8.28	6.42	5.78
—	—	8K	—	54	2	—	2	6	—	—	33	2.7 ~ 3.6V	144-LQFP	AT91M42800A-33AU-ND	12.58	9.75	8.78
—	—	8K	—	58	3	—	1	6	8-ch/10-bit	2-ch/10-bit	33	2.7 ~ 3.6V	176-LQFP	AT91M55800A-33AU-ND	15.27	11.84	10.65
—	—	2K	—	58	3	—	1	6	—	—	25	2.7 ~ 3.6V	176-TQFP	AT91M63200-25AU-ND	18.06	14.00	12.60
—	—	256K	—	32	2	—	—	3	—	—	75	1.65 ~ 1.95V	100-LQFP	AT91R40008-66AU-ND	13.65	10.59	9.53
ROM	256K	96K	—	63	4	1	1	6	—	—	66	1.65 ~ 1.95V	100-LQFP	AT91RM3400-AU-ND	15.48	12.00	10.80
ROM	32K	16K	128K	122	4	1	1	6	—	—	180	1.65 ~ 1.95V	256-BGA	AT91RM9200-CJ-002-ND	21.14	13.61	12.59
ROM	32K	16K	128K	122	4	1	1	6	—	—	180	1.65 ~ 1.95V	208-PQFP	AT91RM9200-QU-002-ND	23.76	18.42	16.58
—	—	4K	—	49	3	—	1	9	8-ch/10-bit	—	40	3.0 ~ 3.6V	144-LQFP	AT91SAM7A1-AU-ND	13.33	10.34	9.30
—	—	16K	—	57	2	—	1	10	16-ch/10-bit	—	30	3.0 ~ 3.6V	176-LQFP	AT91SAM7A2-AU-ND	18.17	14.09	12.68
Flash	256K	32K	—	62	3	1	2	9	16-ch/10-bit	—	60	3.0 ~ 3.6V	100-LQFP	AT91SAM7A3-AU-ND	14.84	11.50	10.35
Flash	32K	8K	—	21	1	1	1	2	8-ch/10-bit	—	55	3.0 ~ 3.6V	48-LQFP	AT91SAM7S32-AU001-ND	5.48	4.25	3.83
Flash	32K	8K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-LQFP	AT91SAM7S321-AU-ND	6.13	4.75	4.28
Flash	64K	16K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-LQFP	AT91SAM7S64-AU001-ND	7.63	5.92	5.33
Flash	128K	32K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-LQFP	AT91SAM7S128AU001-ND	10.00	7.75	6.98
Flash	128K	32K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-QFN	AT91SAM7S128-MU-ND	10.32	8.00	7.20
Flash	256K	64K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-LQFP	AT91SAM7S256AU001-ND	11.93	9.25	8.33
Flash	256K	64K	—	32	2	1	1	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	64-QFN	AT91SAM7S256-MU-ND	12.26	9.50	8.55
Flash	256K	32K	—	88	2	1	1	3	8-ch/10-bit	—	48	3.0 ~ 3.6V	128-LQFP	AT91SAM7SE256-AU-ND	14.19	11.00	9.90
Flash	256K	32K	—	88	2	1	1	3	8-ch/10-bit	—	48	3.0 ~ 3.6V	144-BGA	AT91SAM7SE256-CU-ND	15.70	12.17	10.95
Flash	512K	32K	—	88	2	1	1	3	8-ch/10-bit	—	48	3.0 ~ 3.6V	128-LQFP	AT91SAM7SE512-AU-ND	16.77	13.00	11.70
Flash	512K	32K	—	88	2	1	1	3	8-ch/10-bit	—	48	3.0 ~ 3.6V	144-BGA	AT91SAM7SE512-CU-ND	18.06	14.00	12.60
Flash	128K	32K	—	62	2	1	2	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	100-LQFP	AT91SAM7X128-AU-ND	10.97	8.50	7.65
Flash	256K	64K	—	62	2	1	2	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	100-LQFP	AT91SAM7X256-AU-ND	13.12	10.17	9.15
Flash	256K	64K	—	62	2	1	2	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	100-LQFP	AT91SAM7X256-AU-999TR-ND	8619.00/1,000		
Flash	128K	32K	—	62	2	1	2	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	100-LQFP	AT91SAM7XC128-AU-ND	11.93	9.25	8.33
Flash	256K	64K	—	62	2	1	2	3	8-ch/10-bit	—	55	3.0 ~ 3.6V	100-LQFP	AT91SAM7XC256-AU-ND	14.08	10.92	9.83
ROM	16K	8K	32K	96	4	1	2	6	4-ch/10-bit	—	210	3.0 ~ 3.6V	208-PQFP	AT91SAM9260-QU-ND	16.23	12.84	10.76
ROM	16K	8K	32K	96	4	1	2	6	4-ch/10-bit	—	210	3.0 ~ 3.6V	217-BGA	AT91SAM9260-CJ-ND	16.23	12.08	9.06
ROM	16K	8K	32K	96	4	1	2	2	4-ch/10-bit	—	210	3.0 ~ 3.6V	217-LFBGA	AT91SAM9260B-CU-ND ***NEW!***	15.27	11.84	10.65
ROM	16K	8K	32K	96	4	1	2	2	4-ch/10-bit	—	210	3.0 ~ 3.6V	208-PQFP	AT91SAM9260B-QU-ND ***NEW!***	15.27	11.84	10.65
ROM	32K	160K	32K	96	3	1	2	3	—	—	240	3.0 ~ 3.6V	217-BGA	AT91SAM9261-CJ-ND	19.67	15.25	13.73
ROM	32K	64K	—	118	4	2	1	3	6-ch/10-bit	—	240	3.0 ~ 3.6V	217-LFBGA	AT91SAM9RL64-CU-ND ***NEW!***	16.77	13.00	11.70

AT91 ARM® Thumb® Evaluation Kits

These kits are complete low-cost evaluation platforms, which enable real-time code development and exploration of the AT91 ARM Thumb microcontrollers. The kits include: • Sample microcontroller • Evaluation Board with the Angel™ debug monitor • AT91 Getting Started CD-ROM with data sheets and examples • DB9 serial cable • 2.1mm power jack (power supply not included) • Evaluation copies of compilers and debuggers from Green Hills and ARM • SRAM • Flash • 2 Serial ports • Reset button and controller • Push buttons • LEDs • 20-pin JTAG ICE interface connector • Voltage regulation • Clock generator • Board self-test program • Current consumption measurement capability • Expansion slots for add-on cards with user specific memories and peripherals

AT91EB40A-ND	Evaluation Kit for the AT91R40008	**$250.00**
AT91EB55-ND	Evaluation Kit for the AT91M55800A	**$300.00**
AT91EB42-ND	Evaluation Kit for the AT91M42800A	**$300.00**
AT91RM3400-DK-ND	Development Kit for the AT91RM3400	**$2500.01**
AT91SAM7A1-EK-ND	Evaluation Board for AT91SAM7A1	**$1000.00**
AT91SAM7A2-EK-ND	Evaluation Board for AT91SAM7A2	**$1000.00**
AT91SAM7A3-EK-ND	Evaluation Board for AT91SAM7A3	**$250.00**
AT91SAM7L-STK-ND	***NEW!*** Evaluation Kit for ART91SAM7L — ***RoHS Compliant***	**$212.80**
AT91SAM7SE-EK-ND	Evaluation Board for the AT91SAM7SE — ***RoHS Compliant***	**$200.00**
AT91SAM7S-EK-ND	Evaluation Kit for AT91SAM7S	**$150.00**
AT91SAM7X-EK-ND	Evaluation Kit for AT91SAM7X256/128	**$200.00**
AT91SAM7XC-EK-ND	Evaluation Kit for AT91SAM7XC256/128	**$200.00**
AT91SAM9RL-EK-ND	***NEW!*** Evaluation Kit for AT91SAM9RL — ***RoHS Compliant***	**$1250.00**
AT91SAM9XE-EK-ND	***NEW!*** Evaluation Kit for AT91SAM9XE — ***RoHS Compliant***	**$750.00**
AT91SAM9260-EK-ND	Evaluation Kit for AT91SAM9260 — ***RoHS Compliant***	**$750.00**
AT91SAM9261-EK-ND	Evaluation Kit for AT91SAM926EJ-S — ***RoHS Compliant***	**$1000.00**
AT91SAM-ICE-ND	Emulator for AT91 ARM7 / ARM9	**$150.00**
AT91SAM9263-EK-ND	Evaluation Kit for AT91SAM9263 — ***RoHS Compliant***	**$1000.00**

FPSLIC® — Field Programmable System Level Integrated Circuit

FPSLIC — PGA + AVR in one Package! The AT94K Series (FPSLIC family) is a combination of the popular Atmel AT40K Series SRAM FPGAs and the high-performance Atmel AVR 8-bit RISC microcontroller with standard peripherals. • 2K ~ 18.4Kbits of Distributed Single/Dual Port FPGA User SRAM • High-performance DSP Optimized FPGA Core Cell • Dynamically Reconfigurable In-System – FPGA Configuration Access • FPGA Macro Library of Custom Peripherals • 16 FPGA Supplied Internal Interrupts to AVR • Up to Four External Interrupts to AVR • 8 Global FPGA Clocks: • 2 FPGA Clocks Driven from AVR Logic • FPGA Global Clock Access Available from FPGA Core **Features:** • Timer/Counters 8/16-bit: 2/1 • Watchdog Timer • UART: 2 • TWI (I2C) • PWM: 3 • JTAG • Clock Speed: 25MHz • V_{CC}: 3.0V ~ 3.6V

Gates	Core Cells	FPGA SRAM Bytes	Registers	I/O	AVR Program Memory Type	AVR Memory Size		AVR I/O Pins	ISP	Operating Temp.†	Package	Digi-Key Part No.	Price Each		
						RAM Bytes	EEPROM Bytes						1	25	100
5K	256	2048	436	46	ROMless	20K	—	8	—	Com.	84-PLCC	AT94K05AL-25AJC-ND	19.35	13.15	12.40
										Ind.	84-PLCC	AT94K05AL-25AJI-ND	22.25	15.10	14.30
				58	ROMless	20K	—	8	—	Ind.	100-TQFP	AT94K05AL-25AQI-ND	23.44	15.90	15.05
				82	ROMless	20K	—	8	—	Com.	144-LQFP	AT94K05AL-25BQC-ND	20.32	13.80	13.05
										Ind.	144-LQFP	AT94K05AL-25BQI-ND	24.62	16.70	15.75
				96	ROMless	20K	—	8	—	Com.	208-PQFP	AT94K05AL-25DQC-ND	23.65	16.05	15.15
										Ind.	208-PQFP	AT94K05AL-25DQI-ND	27.09	18.40	17.40
				—	EEPROM	20K	256K	8	Yes	Ind.	144-LQFP	AT94S05AL-25BQU-ND◆	17.20	11.60	10.80
10K	576	4096	846	46	ROMless	36K	—	16	—	Com.	84-PLCC	AT94K10AL-25AJC-ND	32.25	21.90	20.70
										Ind.	84-PLCC	AT94K10AL-25AJI-ND	37.09	25.20	23.80
				58	ROMless	36K	—	16	—	Com.	100-TQFP	AT94K10AL-25AQC-ND	33.86	23.00	21.75
										Ind.	100-TQFP	AT94K10AL-25AQI-ND	39.02	26.50	25.06
				84	ROMless	36K	—	16	—	Ind.	144-LQFP	AT94K10AL-25BQU-ND◆	32.25	21.75	20.25
				84	EEPROM	36K	512K	16	Yes	Ind.	144-LQFP	AT94S10AL-25BQU-ND◆	44.29	29.85	27.80
				137	EEPROM	36K	512K	16	Yes	Com.	256-CABGA	AT94S10AL-25DGC-ND	24.94	16.80	15.65
										Ind.	256-CABGA	AT94S10AL-25DGI-ND	53.43	36.00	33.55
40K	2304	18432	2862	84	ROMless	36K	—	16	—	Ind.	144-LQFP	AT94K40AL-25BQU-ND◆	43.00	29.00	27.00
				162	EEPROM	36K	1024K	16	Yes	Com.	256-CABGA	AT94S40AL-25DGC-ND	81.59	55.40	52.36
										Ind.	256-CABGA	AT94S40AL-25DGI-ND	93.85	63.70	60.26

◆ ***RoHS Compliant*** † **Operating Temperature:** Industrial: -40°C ~ 85°C Commercial: 0°C ~ 70°C

ATSTK94 FPSLIC® Starter Kit

This low-cost development kit is for the designer who wishes to begin working with Atmel's award-winning AT94K series FPSLIC family of devices. The kit allows designers to design, synthesize, simulate and program Atmel's new FPSLIC products. A comprehensive tutorial takes designers through the complete FPSLIC development process. **Features:** • ATK94K40 Device • AT17LV010 Device • ISP Port for Direct Download from PC • Push-button Switches and LEDs • 4 Alphanumeric LED Displays • 2 RS232 Transmit/Receive Ports • 18.432MHz, 4MHz and 32KHz Clock Sources • Power Management Circuitry (9V Power Supply included) • Access to all FPSLIC Pins via Headers • The System Designer™ Software (4-Month License)

ATSTK94-ND FPSLIC Starter Kit **$495.00**

STK594 Development Kit

This kit allows designers to design, simulate, synthesize and program Atmel's FPSLIC devices. It includes hardware allowing full support for the new features found on FPSLIC devices and consists of a development kit board. An additional RS-232 Driver, a 32kHz Real-Time Clock and a Two-Wire Serial Interface are among the new features. **Features:** • STK500 Compatibility • AT94K10AL and AT17FS10 devices • Access to all FPSLIC Pins via Headers • JTAG Header for On-Chip Debugging using the JTAG ICE • System Designer Software Suite with a four-month license • ATDH2225 In-System Programming Cable • Comprehensive User Guide and Tutorial

ATSTK594-ND STK594 Development Kit **$99.00**

MARC 4 Programmer

The TMEB893 is the programmer for Atmel's MARC 4 MTPs M48C893, M48C510 and the U9380. This programmer works together with the PC or stand alone. In the stand alone mode the programmer writes the last stored MARC 4 program to the target chip. The memory inside the programmer is buffered by an accumulator. Two buttons and two LEDs on top control the operation of the programmer. It allows single-chip as well as in-system programming.

TMEB893-ND MARC 4 Programmer **$371.07**

ATMEL AVR® 8-Bit RISC Microcontrollers

Atmel's AVR microcontrollers have a RISC core running single cycle instructions and a well-defined I/O structure that limits the need for external components. Internal oscillators, timers, UART, SPI, pull-up resistors, pulse width modulation, ADC, analog comparator and watch dog timers are some of the features you will find in AVR devices. AVR instructions are tuned to decrease the size of the program whether the code is written in C or Assembly. With on-chip in-system programmable Flash and EEPROM, the AVR is a perfect choice in order to optimize cost and get product to the market quickly.

The AVR is a low-power CMOS 8-bit series of microcontrollers based on the AVR RISC architecture. By executing powerful instructions in a single clock cycle, they achieve throughputs approaching 1 MIPS per MHz allowing the system designer to optimize power consumption versus processing speed. The AVR core combines a rich instruction set with the 32 general purpose working registers. All 32 registers are directly connected to the Arithmetic Logic Unit, allowing two independent registers to be accessed in one single instruction executed in one clock cycle. The resulting architecture is more code efficient while achieving throughputs up to ten times faster than conventional CISC microcontrollers.

General Features:
• Utilizes the AVR high-performance and low-power RISC architecture • 32 x 8 general purpose working registers • Programming lock for Flash program and EEPROM data security • Low-power idle and power down modes • External and internal interrupt sources • Low-power, high speed CMOS process technology • Fully static operation

Memory Size (Bytes)			I/O Pins	Timer/Counters 8/16-bit	Serial Communication	PWM Channels	A/D	Internal OSC	Clock Speed	ISP	JTAG/Debug-WIRE	VCC	Operating Temp.▲	Package	Digi-Key Part No.	Price Each		
Program	RAM	EEPROM														1	25	100
1K	—	64	6	1/—	—	—	—	Y	8MHz	Y	—	4.0 ~ 5.5V	Ind.	8-Dip	ATTINY12-8PU-ND◆	1.63	1.03	.95
														8-SOIC	ATTINY12-8SU-ND◆	1.53	.96	.89
									4MHz	Y	—	2.7 ~ 5.5V	Com.	8-Dip	ATTINY12L-4PC-ND	2.02	1.27	1.18
													Ind.	8-Dip	ATTINY12L-4PU-ND◆	1.83	1.15	1.06
													Com.	8-SOIC	ATTINY12L-4SC-ND	1.91	1.20	1.11
													Ind.	8-SOIC	ATTINY12L-4SU-ND◆	1.72	1.08	1.00
									1.2MHz	Y	—	1.8 ~ 5.5V	Ind.	8-Dip	ATTINY12V-1PU-ND◆	1.63	1.03	.95
													Com.	8-SOIC	ATTINY12V-1SC-ND	1.72	1.08	1.00
													Ind.	8-SOIC	ATTINY12V-1SU-ND◆	1.53	.96	.89
	64	64	6	1/—	—	2	4-ch/10-bit	Y	20MHz	Y	DW	2.7 ~ 5.5V	Ind.	20-QFN	ATTINY13-20MU-ND◆	1.40	.88	.81
														8-Dip	ATTINY13-20PU-ND◆	1.40	.88	.81
														8-SOIC	ATTINY13-20SU-ND◆	1.29	.81	.75
														8-SOIC	ATTINY13-20SSU-ND◆	1.40	.88	.81
									10MHz	Y	DW	1.8 ~ 5.5V	Ind.	20-QFN	ATTINY13V-10MU-ND◆	1.40	.88	.81
														8-Dip	ATTINY13V-10PU-ND◆	1.40	.88	.81
														8-SOIC	ATTINY13V-10SI-ND	1.29	.81	.75
														8-SOIC	ATTINY13V-10SU-ND◆	1.29	.81	.75
														8-SOIC	ATTINY13V-10SSU-ND◆	1.40	.88	.81
2K	—	—	11	1/—	—	—	—	Y	4MHz	—	—	2.7 ~ 5.5V	Ind.	32-TQFP	ATTINY28L-4AU-ND◆	1.51	.95	.88
														32-QFN	ATTINY28L-4MU-ND◆	1.61	1.01	.94
														28-Dip	ATTINY28L-4PU-ND◆	1.61	1.01	.94
									1.2MHz	—	—	1.8 ~ 5.5V	Ind.	32-TQFP	ATTINY28V-1AU-ND◆	1.51	.95	.88
														32-QFN	ATTINY28V-1MU-ND◆	1.61	1.01	.94
														28-Dip	ATTINY28V-1PU-ND◆	1.61	1.01	.94
	128	128	12	1/1	SPI, TWI	4	8-ch/10-bit	Y	16MHz	Y	DW	2.7 ~ 5.5V	Ind.	20-QFN	ATTINY24-20MU-ND◆	1.91	1.20	1.11
														14-Dip	ATTINY24-20PU-ND◆	1.91	1.20	1.11
														14-SOIC	ATTINY24-20SSU-ND◆	1.91	1.20	1.11
									16MHz	Y	DW	1.8 ~ 5.5V	Ind.	20-QFN	ATTINY24V-10MU-ND◆	1.91	1.20	1.11
														14-Dip	ATTINY24V-10PU-ND◆	1.91	1.20	1.11
														14-SOIC	ATTINY24V-10SSU-ND◆	1.91	1.20	1.11
			6	2/—	SPI, TWI	4	4-ch/10-bit	Y	16MHz	Y	DW	2.7 ~ 5.5V	Ind.	20-QFN	ATTINY25-20MU-ND◆	1.66	1.04	.96
														8-Dip	ATTINY25-20PU-ND◆	1.76	1.11	1.03
														8-SOIC	ATTINY25-20SU-ND◆	1.66	1.04	.96
									16MHz	Y	DW	1.8 ~ 5.5V	Ind.	20-QFN	ATTINY25V-10MU-ND◆	1.66	1.04	.96
														8-Dip	ATTINY25V-10PU-ND◆	1.76	1.11	1.03
														8-SOIC	ATTINY25V-10SU-ND◆	1.66	1.04	.96
			16	2/—	—	2	8-ch/10-bit	Y	16MHz	Y	—	4.5 ~ 5.5V	Com.	20-QFN	ATTINY26-16MC-ND	2.47	1.55	1.44
													Ind.	32-QFN	ATTINY26-16MU-ND◆	2.47	1.55	1.44
													Ind.	20-Dip	ATTINY26-16PU-ND◆	2.47	1.55	1.44
													Ind.	20-SOIC	ATTINY26-16SU-ND◆	2.47	1.56	1.45
									8MHz	Y	—	2.7 ~ 5.5V	Ind.	32-QFN	ATTINY26L-8MU-ND◆	2.47	1.55	1.44
														20-Dip	ATTINY26L-8PU-ND◆	2.47	1.55	1.44
														20-SOIC	ATTINY26L-8SU-ND◆	2.37	1.49	1.38
				1/1	SPI, TWI	5	11-ch/ 10-bit	Y	16MHz	Y	DW	2.7 ~ 5.5V	Ind.	32-QFN	ATTINY261-20MU-ND◆	2.13	1.57	1.41
														20-Dip	ATTINY261-20PU-ND◆	2.13	1.57	1.41
														20-SOIC	ATTINY261-20SU-ND◆	2.13	1.57	1.41
									16MHz	Y	DW	1.8 ~ 5.5V	Ind.	32-QFN	ATTINY261V-10MU-ND◆	2.13	1.57	1.41
														20-Dip	ATTINY261V-10PU-ND◆	2.13	1.57	1.41
														20-SOIC	ATTINY261V-10SU-ND◆	2.13	1.57	1.41
			18	1/1	1(USART), SPI, TWI	4	—	Y	20MHz	Y	DW	2.7 ~ 5.5V	Ind.	20-QFN	ATTINY2313-20MU-ND◆	2.26	1.42	1.31
														20-Dip	ATTINY2313-20PU-ND◆	2.26	1.42	1.31
														20-SOIC	ATTINY2313-20SU-ND◆	2.15	1.35	1.25
												1.8 ~ 5.5V	Ind.	30-QFN	ATTINY2313V-10MU-ND◆	2.26	1.42	1.31
														20-Dip	ATTINY2313V-10PU-ND◆	2.26	1.42	1.31
														20-SOIC	ATTINY2313V-10SU-ND◆	2.15	1.35	1.25
4K	256	256	12	1/1	SPI, TWI	4	8-ch/10-bit	Y	16MHz	Y	DW	2.7 ~ 5.5V	Ind.	20-QFN	ATTINY44-20MU-ND◆	2.15	1.59	1.42
														14-Dip	ATTINY44-20PU-ND◆	2.15	1.59	1.42
														14-SOIC	ATTINY44-20SSU-ND◆	2.15	1.59	1.42
									16MHz	Y	DW	1.8 ~ 5.5V	Ind.	20-QFN	ATTINY44V-10MU-ND◆	2.15	1.59	1.42
														14-Dip	ATTINY44V-10PU-ND◆	2.15	1.59	1.42
														14-SOIC	ATTINY44V-10SSU-ND◆	2.15	1.59	1.42
			6	2/—	SPI, TWI	4	4-ch/10-bit	Y	16MHz	Y	DW	2.7 ~ 5.5V	Ind.	20-QFN	ATTINY45-20MU-ND◆	2.13	1.34	1.24
														8-Dip	ATTINY45-20PU-ND◆	2.13	1.34	1.24
														8-SOIC	ATTINY45-20SU-ND◆	2.02	1.27	1.18
														8-TSSOP	ATTINY45-20XU-ND◆	2.02	1.27	1.18
														20-QFN	ATTINY45V-10MU-ND◆	2.13	1.34	1.24
									16MHz	Y	DW	1.8 ~ 5.5V	Ind.	8-Dip	ATTINY45V-10PU-ND◆	2.13	1.34	1.24
														8-SOIC	ATTINY45V-10SU-ND◆	2.02	1.27	1.18
														8-TSSOP	ATTINY45V-10XU-ND◆	2.02	1.27	1.18
			16	1/1	SPI, TWI	5	11-ch/10-bit	Y	16MHz	Y	DW	2.7 ~ 5.5V	Ind.	32-QFN	ATTINY461-20MU-ND◆	2.45	1.81	1.62
														20-Dip	ATTINY461-20PU-ND◆	2.45	1.81	1.62
														20-SOIC	ATTINY461-20SU-ND◆	2.45	1.81	1.62
									16MHz	Y	DW	1.8 ~ 5.5V	Ind.	32-QFN	ATTINY461V-10MU-ND◆	2.45	1.81	1.62
														20-Dip	ATTINY461V-10PU-ND◆	2.45	1.81	1.62
														20-SOIC	ATTINY461V-10SU-ND◆	2.45	1.81	1.62
8K	512	512	12	1/1	SPI, TWI	4	8-ch/10-bit	Y	16MHz	Y	DW	2.7 ~ 5.5V	Ind.	20-QFN	ATTINY84-20MU-ND◆	2.90	2.15	1.92
														14-Dip	ATTINY84-20PU-ND◆	2.90	2.15	1.92
									16MHz	Y	DW	1.8 ~ 5.5V	Ind.	20-QFN	ATTINY84V-10MU-ND◆	2.90	2.15	1.92
														14-Dip	ATTINY84V-10PU-ND◆	2.90	2.15	1.92
			6	2/—	SPI, TWI	4	4-ch/10-bit	Y	16MHz	Y	DW	2.7 ~ 5.5V	Ind.	20-QFN	ATTINY85-20MU-ND◆	2.84	1.78	1.65
														8-Dip	ATTINY85-20PU-ND◆	2.84	1.78	1.65
														8-SOIC	ATTINY85-20SU-ND◆	2.73	1.72	1.59
									16MHz	Y	DW	1.8 ~ 5.5V	Ind.	20-QFN	ATTINY85V-10MU-ND◆	2.73	1.72	1.59
														8-Dip	ATTINY85V-10PU-ND◆	2.73	1.72	1.59
														8-SOIC	ATTINY85V-10SU-ND◆	2.62	1.65	1.53
			16	1/1	SPI, TWI	5	11 ch/ 10-bit	Y	16MHz	Y	DW	2.7 ~ 5.5V	Ind.	32-QFN	ATTINY861-20MU-ND◆	3.03	2.24	2.00
														20-Dip	ATTINY861-20PU-ND◆	3.03	2.24	2.00
														20-SOIC	ATTINY861-20SU-ND◆	3.03	2.24	2.00
												1.8 ~ 5.5V	Ind.	32-QFN	ATTINY861V-10MU-ND◆	3.03	2.24	2.00
														20-Dip	ATTINY861V-10PU-ND◆	3.03	2.24	2.00
														20-SOIC	ATTINY861V-10SU-ND◆	3.03	2.24	2.00
			35	1/1	1 (USART), SPI	3	—	Y	16MHz	Y	JTAG	4.5 ~ 5.5V	Ind.	44-TQFP	ATMEGA8515-16AU-ND◆	5.16	3.24	3.00
														44-PLCC	ATMEGA8515-16JU-ND◆	5.16	3.24	3.00
														44-QFN	ATMEGA8515-16MU-ND◆	5.27	3.31	3.06
														40-Dip	ATMEGA8515-16PU-ND◆	5.27	3.31	3.06

◆ ***RoHS Compliant*** ▲ **Operating Temperature:** Industrial: -40°C ~ 85°C Commercial: 0°C ~ 70°C High: -40°C ~ 125°C Extended: -40°C ~ 105°C ‡ Cut Tape † Tape and Reel *(Continued)*

AVR® 8-Bit RISC Microcontrollers *(Cont.)*

Memory Size (Bytes)			I/O Pins	Timer/Counters 8/16-bit	Serial Communication	PWM Channels	A/D	Internal OSC	Clock Speed	ISP	JTAG/Debug-WIRE	VCC	Operating Temp.▲	Package	Digi-Key Part No.	Price Each		
Program	RAM	EEPROM														1	25	100
8K	512	512	35	1/1	1 (USART), SPI	3	—	Y	8MHz	Y	—	2.7 ~ 5.5V	Ind.	44-TQFP	ATMEGA8515L-8AI-ND	5.16	3.24	3.00
													Ind.	44-TQFP	ATMEGA8515L-8AU-ND◆	5.16	3.24	3.00
													Com.	44-QFN	ATMEGA8515L-8MC-ND	5.27	3.31	3.06
													Ind.	44-QFN	ATMEGA8515L-8MU-ND◆	5.27	3.31	3.06
													Ind.	40-Dip	ATMEGA8515L-8PU-ND◆	5.27	3.31	3.06
			32	2/1	1 (USART), SPI, TWI	4	8-ch/10-bit	Y	16MHz	Y	—	4.5 ~ 5.5V	Ind.	44-TQFP	ATMEGA8535-16AU-ND◆	5.59	3.51	3.25
														44-QFN	ATMEGA8535-16MI-ND	5.70	3.58	3.31
														44-QFN	ATMEGA8535-16MU-ND◆	5.70	3.58	3.31
														40-Dip	ATMEGA8535-16PU-ND◆	5.70	3.58	3.31
									8MHz	Y	—	2.7 ~ 5.5V	Ind.	44-TQFP	ATMEGA8535L-8AU-ND◆	5.59	3.51	3.25
														44-QFN	ATMEGA8535L-8MU-ND◆	5.70	3.58	3.31
														40-Dip	ATMEGA8535L-8PU-ND◆	5.70	3.58	3.31
			19	1/1	1 (USART), SPI	7	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ext.	24-SOIC	AT90PWM2B-16SU-ND◆	3.78	2.80	2.31
			27	1/1	1 (USART), SPI	10	11-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ext.	32-QFN	AT90PWM3-16MQ-ND◆	5.22	4.18	3.25
														32-QFN	AT90PWM3B-16MU-ND◆	4.05	3.01	2.48
														32-SOIC	AT90PWM3B-16SU-ND◆	4.05	3.01	2.48
	1K	512	23	2/1	1 (USART), SPI, TWI	3	6-ch/10-bit	Y	16MHz	Y	—	4.5 ~ 5.5V	Ind.	28-Dip	ATMEGA8-16PU-ND◆	3.66	2.30	2.13
									8MHz	Y	—	2.7 ~ 5.5V	Ind.	28-Dip	ATMEGA8L-8PU-ND◆	3.66	2.30	2.13
						3	8-ch/10-bit	Y	16MHz	Y	—	4.5 ~ 5.5V	Ind.	32-TQFP	ATMEGA8-16AU-ND◆	3.55	2.23	2.06
														32-QFN	ATMEGA8-16MU-ND◆	3.66	2.30	2.13
									8MHz	Y	—	2.7 ~ 5.5V	Ind.	32-TQFP	ATMEGA8L-8AU-ND◆	3.55	2.23	2.06
														32-QFN	ATMEGA8L-8MU-ND◆	3.66	2.30	2.13
						6	6-ch/10-bit	Y	16MHz	Y	DW	2.7 ~ 5.5V	Ind.	28-Dip	ATMEGA88-20PU-ND◆	3.87	2.43	2.25
									16MHz	Y	DW	1.8 ~ 5.5V	Ind.	28-Dip	ATMEGA88V-10PU-ND◆	3.87	2.43	2.25
						6	8-ch/10-bit	Y	16MHz	Y	DW	2.7 ~ 5.5V	Ind.	32-TQFP	ATMEGA88-20AU-ND◆	3.76	2.36	2.19
														32-QFN	ATMEGA88-20MU-ND◆	3.87	2.43	2.25
									16MHz	Y	DW	1.8 ~ 5.5V	Ind.	32-TQFP	ATMEGA88V-10AU-ND◆	3.76	2.36	2.19
														32-QFN	ATMEGA88V-10MU-ND◆	3.87	2.43	2.25
														32-TQFP	ATMEGA48-20AU-ND◆	2.58	1.62	1.50
4K	512	256	23	2/1	1 (USART), SPI, TWI	6	8-ch/10-bit	Y	16MHz	Y	DW	2.7 ~ 5.5V	Ind.	32-QFN	ATMEGA48-20MU-ND◆	2.69	1.69	1.56
														28-QFN	ATMEGA48-20MMU-ND◆	2.69	1.69	1.56
														28-Dip	ATMEGA48-20PU-ND◆	2.69	1.69	1.56
									16MHz	Y	DW	1.8 ~ 5.5V	Ind.	32-TQFP	ATMEGA48V-10AU-ND◆	2.58	1.62	1.50
														32-QFN	ATMEGA48V-10MU-ND◆	2.69	1.69	1.56
														28-Dip	ATMEGA48V-10PU-ND◆	2.69	1.69	1.56
16K	512	512	22	1/1	SPI	2	—	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	32-TQFP	AT90USB162-16AURCT-ND◆‡	3.76	3.15	2.80
														32-TQFP	AT90USB162-16AURTR-ND◆†		4376.00/2,000	
														32-QFN	AT90USB162-16MURCT-ND◆‡	3.76	3.15	2.80
														32-QFN	AT90USB162-16MURTR-ND◆†		10940.00/5,000	
	1K	512	23	2/1	1 (USART), SPI, TWI	6	8-ch/10-bit	Y	16MHz	Y	—	1.8 ~ 5.5V	Ind.	32-TQFP	ATMEGA168-20AU-ND◆	4.00	2.51	2.33
														32-QFN	ATMEGA168-20MU-ND◆	4.11	2.58	2.39
														28-Dip	ATMEGA168-20PU-ND◆	4.11	2.58	2.39
											JTAG	2.7 ~5.5V	High	32-QFN	ATMEGA168-20MQ-ND◆	4.11	2.58	2.39
									16MHz	Y	—	1.8 ~ 5.5V	Ind.	32-TQFP	ATMEGA168V-10AU-ND◆	4.00	2.51	2.33
														32-QFN	ATMEGA168V-10MU-ND◆	4.11	2.58	2.39
														28-Dip	ATMEGA168V-10PU-ND◆	4.11	2.58	2.39
			32	2/1	1 (USART), SPI, TWI	3	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	44-TQFP	ATMEGA16-16AU-ND◆	6.45	4.05	3.75
														44-QFN	ATMEGA16-16MU-ND◆	6.56	4.12	3.81
														40-Dip	ATMEGA16-16PU-ND◆	6.56	4.12	3.81
									8MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	44-TQFP	ATMEGA16L-8AU-ND◆	6.45	4.05	3.75
													Com.	44-QFN	ATMEGA16L-8MC-ND	6.56	4.12	3.81
													Ind.	44-QFN	ATMEGA16L-8MI-ND	6.56	4.12	3.81
													Ind.	44-QFN	ATMEGA16L-8MU-ND◆	6.56	4.12	3.81
													Ind.	40-Dip	ATMEGA16L-8PU-ND◆	6.56	4.12	3.81
					2 (USART), SPI, TWI	6	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	44-TQFP	ATMEGA164P-20AU-ND◆	4.82	3.56	3.18
														44-QFN	ATMEGA164P-20MU-ND◆	4.82	3.56	3.18
														40-Dip	ATMEGA164P-20PU-ND◆	4.82	3.56	3.18
									16MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	44-TQFP	ATMEGA164PV-10AU-ND◆	4.82	3.56	3.18
														44-QFN	ATMEGA164PV-10MU-ND◆	4.82	3.56	3.18
														40-Dip	ATMEGA164PV-10PU-ND◆	4.82	3.56	3.18
			35	2/2	2 (USART), SPI	4	—	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	44-TQFP	ATMEGA162-16AU-ND◆	6.67	4.19	3.88
														44-QFN	ATMEGA162-16MU-ND◆	6.77	4.25	3.94
														40-Dip	ATMEGA162-16PU-ND◆	6.77	4.25	3.94
									8MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	44-TQFP	ATMEGA162V-8AU-ND◆	6.67	4.19	3.88
														44-QFN	ATMEGA162V-8MI-ND	6.77	4.25	3.94
														44-QFN	ATMEGA162V-8MU-ND◆	6.77	4.25	3.94
														40-Dip	ATMEGA162V-8PU-ND◆	6.77	4.25	3.94
			53	2/1	1 (USART), SPI	4	8-ch/10-bit	Y	1MHz	Y	JTAG	1.8 ~ 5.5V	Com.	64-QFN	ATMEGA169V-1MC-ND	10.32	7.63	6.82
									8MHz	Y	JTAG	1.8~5.5V	Ind.	64-QFN	ATMEGA169V-8MU-ND◆	8.71	5.47	5.06
			54	2/1	1 (USART), SPI, TWI	4	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA165P-16AU-ND◆	5.74	4.25	3.79
														64-QFN	ATMEGA165P-16MU-ND◆	5.74	4.25	3.79
									8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA165PV-8AU-ND◆	5.74	4.25	3.79
														64-QFN	ATMEGA165PV-8MU-ND◆	5.74	4.25	3.79
									16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA169P-16AU-ND◆	6.06	3.81	3.53
														64-QFN	ATMEGA169P-16MU-ND◆	6.06	3.81	3.53
									8MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-QFN	ATMEGA169L-8MI-ND	11.03	8.16	7.28
												1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA169PV-8AU-ND◆	6.06	3.81	3.53
														64-QFN	ATMEGA169PV-8MU-ND◆	6.17	3.88	3.59
32K	2K	1K	32	2/1	1 (USART), SPI, TWI	4	8-ch/10-bit	Y	16MHz	Y	JTAG	4.0 ~ 5.5V	Ind.	44-TQFP	ATMEGA32-16AU-ND◆	8.17	5.13	4.75
														44-QFN	ATMEGA32-16MU-ND◆	8.28	5.20	4.81
														40-Dip	ATMEGA32-16PU-ND◆	8.28	5.20	4.81
									8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	44-TQFP	ATMEGA32L-8AU-ND◆	8.17	5.13	4.75
														44-QFN	ATMEGA32L-8MU-ND◆	8.17	5.13	4.75
												2.7 ~ 5.5V	Com.	40-Dip	ATMEGA32L-8PU-ND◆	8.17	5.13	4.75
					2 (USART), SPI, TWI	6	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	44-TQFP	ATMEGA324P-20AU-ND◆	6.02	4.45	3.98
														44-QFN	ATMEGA324P-20MU-ND◆	6.02	4.45	3.98
														40-Dip	ATMEGA324P-20PU-ND◆	6.02	4.45	3.98
									16MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	44-TQFP	ATMEGA324PV-10AU-ND◆	6.02	4.45	3.98
														44-QFN	ATMEGA324PV-10MU-ND◆	6.02	4.45	3.98
														40-Dip	ATMEGA324PV-10PU-ND◆	6.02	4.45	3.98
			53	2/1	1 (USART), TWI SPI (1USI)	4	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA325-16AU-ND◆	6.88	4.32	4.00
														64-QFN	ATMEGA325-16MU-ND◆	6.99	4.39	4.06
									8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA325V-8AU-ND◆	6.88	4.32	4.00
														64-QFN	ATMEGA325V-8MU-ND◆	6.99	4.39	4.06
					1 (USART), SPI, TWI	4	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA329-16AU-ND◆	7.61	4.78	4.43
														64-QFN	ATMEGA329-16MU-ND◆	7.72	4.85	4.49
									8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA329V-8AU-ND◆	7.61	4.78	4.43
														64-QFN	ATMEGA329V-8MU-ND◆	7.72	4.85	4.49
			54	2/1	1 (USART), TWI	4	8-ch/10-bit	Y	20MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA325P-20AU-ND◆	6.99	5.17	4.62
														64-QFN	ATMEGA325P-20MU-ND◆	6.99	5.17	4.62
									10MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA325PV-10AU-ND◆	6.88	5.09	4.54
														64-QFN	ATMEGA325PV-10MU-ND◆	6.88	5.09	4.54
									20MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA329P-20AU-ND◆	7.61	5.63	5.03
														64-QFN	ATMEGA329P-20MU-ND◆	7.61	5.63	5.03
									10MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA329PV-10AU-ND◆	7.61	5.63	5.03

◆ ***RoHS Compliant*** ▲ **Operating Temperature:** Industrial: -40°C ~ 85°C Commercial: 0°C ~ 70°C High: -40°C ~ 125°C Extended: -40°C ~ 105°C ‡ Cut Tape † Tape and Reel *(Continued)*

AVR® 8-Bit RISC Microcontrollers *(Cont.)*

Memory Size (Bytes)			I/O Pins	Timer/ Counters 8/16-bit	Serial Communication	PWM Channels	A/D	Internal OSC	Clock Speed	ISP	JTAG/ Debug-WIRE	VCC	Operating Temp.▲	Package	Digi-Key Part No.	Price Each		
Program	RAM	EEPROM														1	25	100
32K	2K	1K	54	2/1	1 (USART), TWI	4	8-ch/10-bit	Y	10MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-QFN	ATMEGA329PV-10MU-ND◆	7.61	5.63	5.03
			69	2/1	1 (USART), TWI SPI (1 USI)	4	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	100-TQFP	ATMEGA3250-16AU-ND◆	7.25	4.55	4.21
									8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA3250V-8AU-ND◆	7.25	4.55	4.21
									20MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	100-TQFP	ATMEGA3250P-20AU-ND◆	7.25	5.36	4.79
									10MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA3250PV-10AU-ND◆	7.25	5.36	4.79
			68	2/1	1 (USART), SPI, TWI	4	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	100-TQFP	ATMEGA3290-16AU-ND◆	8.64	5.43	5.03
									8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA3290V-8AU-ND◆	8.64	5.43	5.03
			69	2/1	1 (USART), TWI SPI (1 USI)	4	8-ch/10-bit	Y	20MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	100-TQFP	ATMEGA3290P-20AU-ND◆	8.64	6.39	5.71
									10MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA3290PV-10AU-ND◆	8.64	6.39	5.71
			53	2/2	2 (USART), SPI	8	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	AT90CAN32-16AU-ND◆	9.70	7.17	6.40
														64-QFN	AT90CAN32-16MU-ND◆	9.70	7.17	6.40
40K	2K	512	18	1/1	TWI	1	—	Y	1MHz	Y	JTAG	4.0 ~ 25V	Ind.	48-LQFP	ATMEGA406-1AAU-ND◆	6.45	4.05	3.75
64K	4K	2K	53	2/2	2 (USART), SPI, TWI	8	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA64-16AU-ND◆	11.83	7.43	6.88
														64-QFN	ATMEGA64-16MI-ND	11.93	7.49	6.94
														64-QFN	ATMEGA64-16MU-ND◆	11.93	7.49	6.94
									8MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA64L-8AU-ND◆	11.83	7.43	6.88
													Com.	64-QFN	ATMEGA64L-8MC-ND	11.93	7.49	6.94
													Ind.	64-QFN	ATMEGA64L-8MU-ND◆	11.93	7.49	6.94
			54	2/2	2 (USART), SPI, TWI	8	8-ch/10-bit	Y	8MHz	Y	JTAG	2.7 ~ 5.5V	High	64-TQFP	ATMEGA64L-8AQ-ND◆	11.93	7.49	6.94
														64-QFN	ATMEGA64L-8MQ-ND◆	11.93	7.49	6.94
			32	2/1	1 (USART), SPI, TWI	4	8-ch/10-bit	Y	16MHz	Y	—	1.8 ~ 5.5V	Ind.	44-TQFP	ATMEGA644V-10AU-ND◆	7.76	4.87	4.51
														44-QFN	ATMEGA644V-10MU-ND◆	7.87	4.94	4.58
														40-Dip	ATMEGA644V-10PU-ND◆	7.87	4.94	4.58
			32	2/1	1 (USART), SPI, TWI	6	8-ch/10-bit	Y	16MHz	Y	—	2.7 ~ 5.5V	Ind.	44-TQFP	ATMEGA644-20AU-ND◆	7.76	4.87	4.51
														44-QFN	ATMEGA644-20MU-ND◆	7.87	4.94	4.58
														40-Dip	ATMEGA644-20PU-ND◆	7.87	4.94	4.58
											JTAG	2.7 ~ 5.5V	Ind.	44-TQFP	ATMEGA644P-20AU-ND◆	7.76	4.87	4.51
														44-QFN	ATMEGA644P-20MU-ND◆	7.76	5.74	5.13
														40-Dip	ATMEGA644P-20PU-ND◆	7.76	4.87	4.51
									16MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	44-TQFP	ATMEGA644PV-10AU-ND◆	7.76	5.74	5.13
														40-Dip	ATMEGA644PV-10PU-ND◆	7.76	5.74	5.13
			54	2/1	1 (USART), SPI, TWI	4	8-ch/10-bit	Y	16MHz	Y	—	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA645-16AU-ND◆	9.01	5.66	5.24
														64-QFN	ATMEGA645-16MU-ND◆	9.12	5.72	5.30
									8MHz	Y	—	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA645V-8AU-ND◆	9.01	5.66	5.24
														64-QFN	ATMEGA645V-8MU-ND◆	9.12	5.72	5.30
									16MHz	Y	—	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA649-16AU-ND◆	10.99	6.90	6.39
														64-QFN	ATMEGA649-16MU-ND◆	11.09	6.97	6.45
									8MHz	Y	—	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA649V-8AU-ND◆	10.99	6.90	6.39
														64-QFN	ATMEGA649V-8MU-ND◆	11.09	6.97	6.45
			69	2/1	1 (USART), SPI, TWI	4	8-ch/10-bit	Y	16MHz	Y	—	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA6450-16AU-ND◆	10.36	6.51	6.03
									8MHz	Y	—	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA6450V-8AU-ND◆	10.36	6.51	6.03
									16MHz	Y	—	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA6490-16AU-ND◆	12.60	7.91	7.33
									8MHz	Y	—	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA6490V-8AU-ND◆	12.60	7.91	7.33
			53	2/2	2 (USART), SPI	8	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	AT90CAN64-16AU-ND◆	10.34	7.65	6.83
														64-QFN	AT90CAN64-16MU-ND◆	10.34	7.65	6.83
	8K	4K	86	2/4	4 (USART), SPI, TWI	16	16-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	100-TQFP	ATMEGA640-16AU-ND◆	11.80	8.73	7.80
														100-CBGA	ATMEGA640-16CU-ND◆	11.80	8.73	7.80
									8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA640V-8AU-ND◆	11.80	8.73	7.80
														100-CBGA	ATMEGA640V-8CU-ND◆	11.80	8.73	7.80
128K	4K	4K	53	2/2	2 (USART), SPI, TWI	8	8-ch/10-bit	Y	16MHz	Y	JTAG	4.5 ~ 5.5V	Com.	64-QFN	ATMEGA128-16MC-ND	15.05	9.45	8.75
													Ind.	64-TQFP	ATMEGA128-16AU-ND◆	15.05	9.45	8.75
													Ind.	64-QFN	ATMEGA128-16MU-ND◆	15.16	9.52	8.81
									8MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA128L-8AU-ND◆	15.05	9.45	8.75
														64-QFN	ATMEGA128L-8MU-ND◆	15.16	9.52	8.81
									16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	AT90CAN128-16AU-ND◆	16.77	12.40	11.08
														64-QFN	AT90CAN128-16MU-ND◆	16.77	12.40	11.08
	8K	4K	86	2/4	4 (USART), SPI, TWI	16	16-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	100-TQFP	ATMEGA1280-16AU-ND◆	15.72	11.62	10.38
														100-CBGA	ATMEGA1280-16CU-ND◆	15.72	11.62	10.38
									8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA1280V-8AU-ND◆	15.72	11.62	10.38
														100-CBGA	ATMEGA1280V-8CU-ND◆	15.72	11.62	10.38
			54	2/4	2 (USART), SPI, TWI	10	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA1281-16AU-ND◆	14.36	10.62	9.49
														64-QFN	ATMEGA1281-16MU-ND◆	14.36	10.62	9.49
									8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA1281V-8AU-ND◆	14.36	10.62	9.49
														64-QFN	ATMEGA1281V-8MU-ND◆	14.36	10.62	9.49
						8	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-QFN	AT90USB1286-16MU-ND◆	15.61	11.54	10.30
														64-TQFP	AT90USB1287-16AU-ND◆	16.71	12.35	11.03
														64-QFN	AT90USB1287-16MU-ND◆	16.71	12.35	11.03
			22	1/1	1 (USART), SPI	5	—	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	32-QFN	AT90USB82-16MU-ND◆	3.23	2.33	2.18
256K	8K	4K	86	2/4	4 (USART), SPI, TWI	16	16-ch/10-bit	Y	16MHz	Y	JTAG	4.5 ~ 5.5V	Ind.	100-TQFP	ATMEGA2560-16AU-ND◆	17.97	11.29	10.45
														100-CBGA	ATMEGA2560-16CU-ND◆	19.59	12.30	11.39
									8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA2560V-8AU-ND◆	17.97	11.29	10.45
														100-CBGA	ATMEGA2560V-8CU-ND◆	19.59	12.30	11.39
			51	2/4	2 (USART), SPI, TWI	10	16-ch/10-bit	Y	16MHz	Y	JTAG	4.5 ~ 5.5V	Ind.	64-TQFP	ATMEGA2561-16AU-ND◆	16.99	10.67	9.88
														64-QFN	ATMEGA2561-16MU-ND◆	17.09	10.73	9.94
									8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA2561V-8AU-ND◆	16.99	10.67	9.88
														64-QFN	ATMEGA2561V-8MU-ND◆	17.09	10.73	9.94

◆ ***RoHS Compliant*** ▲ **Operating Temperature:** Industrial: -40°C ~ 85°C Commercial: 0°C ~ 70°C High: -40°C ~ 125°C Extended: -40°C ~ 105°C ‡ Cut Tape † Tape and Reel

ATAVRFBKIT Ballast Demo Kit

The ATAVRFBKIT is a Dimmable Fluorescent Ballast kit which is used to demonstrate the ability of the AT90PWM2 to control all the main functions of a DALI Fluorescent Ballast. C code is provided to speed-up development time.

ATAVRFBKIT-ND **$211.47**

ATAVRMC100 BLDC Motor Control

The ATAVRMC100 BLDC motor control kit includes an evaluation board, a 3-phase BLDC motor and demonstration software. Fully featured driver board for BLDC motors with hardware over-current detection. Interface for sensor and sensorless BLDC, sensor and sensorless software included. Onboard AT90PWM3 AVR microcontroller. Header connectors for external driver inputs. Onboard LIN transceiver ATA6661.

ATAVRMC100-ND **$211.47**

ATAVRMC200 AC Induction Motor Control

The ATAVRMC200 is an evaluation kit dedicated to AC induction motor control. The kit includes an evaluation board and demonstration software. It allows users to quickly evaluate the capability of the AT90PWM3 AVR microcontroller to control a three phase asynchronous induction motor.

ATAVRMC200-ND **$317.87**

Adapters

The AVR® ICE50 is a top-of-the-line development tool for complete in-circuit emulation of most AVR 8-bit RISC microcontrollers. The ICE50 and the AVR Studio4 user interface give the user complete control of the internal resources of the microcontroller, helping to reduce development time by making debugging easier.

ATICE50MEM-ND	ICE50 Extension Memory Card	**$246.05**
ATICE50POD-ND	Replacement POD for ICE40, ICE50	**$465.50**
ATICE50PROBE-ND	Probe with Flex Cables	**$81.13**
ATADAP128_TOP-ND	TOP Adapter Module for ATmega64	**$199.50**
ATADAP169_TOP-ND	Personality Adapter for ATmega169	**$199.50**
ATADAPMEGA8-ND	Personality Adapter for ATmega8	**$41.23**
ATADAPMEGA32-ND	Personality Adapter for ATmega32	**$41.23**
ATADAPMEGA162-ND	Personality Adapter for ATmega162	**$41.23**
ATADAPT2313-ND	Personality Adapter for ATtiny2313	**$41.23**
ATADAPTEST-ND	ICE50 Adapter Test	**$41.23**
ATADAPTINY13-ND	Personality Adapter for ATtiny13	**$41.23**
ATADAPTINY26-ND	Personality Adapter for ATtiny26	**$41.23**

Programmer

Description	Digi-Key Part No.	Price Each
ISP In-System Programmer	ATAVRISP2-ND	35.91

(Continued)

ATSTK500 Starter Kit

The ATSTK500 is a starter kit and development system for Atmel's AVR flash microcontrollers. The ATSTK500 gives designers a quick start to develop code on the AVR combined with features for using the starter kit to develop prototypes and test new designs. The ATSTK500 interfaces with AVR Studio®, Atmel's Integrated Development Environment (IDE) for code writing and debugging.

ATSTK500-ND..................$79.00

Description	Digi-Key Part No.	Price Each
Module for STK501	ATSTK501-ND	79.00
Module for STK502	ATSTK502-ND	99.00
Module for STK503	ATSTK503-ND	119.00
Module for STK504	ATSTK504-ND	119.00
Module for STK505	ATSTK505-ND	79.00
Module for STK520	ATSTK520-ND	83.79
CAN Extension for STK500/501	ATADAPCAN01-ND	19.00
Starter Kit for AT90USB	ATSTK525-ND	211.47
Starter Kit for AT90USB82/162	ATSTK526-ND	211.47
Extension Board Kit for STK525	ATEVK525-ND ***NEW!***	159.60

Emulator

Description	Digi-Key Part No.	Price Each
JTAGICE Emulator for AVR® 2/OCD	ATJTAGICE2-ND	299.00
Probe JTAGICE with Flex Cables	ATJTAGPROBE-ND	39.00

NEW! BC100 Development Kit

The BC100 is a reference design/development kit that targets battery charging. The kit can be used to charge various battery types, as long as the requirements to charging voltage and currents are within the output range that the kit offers (1.2V ~ 38V, 5A Max.)

The kit can be used to develop applications such as battery chargers, battery backup, un-interruptable power supply and switch mode power supply.

ATAVRBC100-ND..................$105.07

Evaluation Kits

Description	Digi-Key Part No.	Price Each
Butterfly Evaluation Kit	ATAVRBFLY-ND	19.20
Evaluation Kit for AT90USB	AT90USBKEY-ND	31.92

USB Development Kits

Description	Digi-Key Part No.	Price Each
IC USB HUB Controller, 4-Port, 32-LQFP	AT43301-AU-ND◆	1.98
IC USB HUB Controller, 4-Port, 24-SOIC	AT43301-SU-ND◆	1.83
IC USB HUB Controller, 4 Port, 32-LQFP	AT43312A-AC-ND	2.02
IC USB Keyboard Controller Hub, 48-LQFP	AT43USB326-AU-ND◆	2.88
IC USB Keyboard Controller Hub, 64-LQFP	AT43USB325E-AU-ND◆	5.16
IC USB MCU W/H UB, ADC, PWM, 64-LQFP	AT43USB355E-AU-ND◆	6.36
USB Host/Function Development Kit for AT43USB380 OTG/Host FunctionProcessor	AT43DK380-PDC2-ND	1335.00
IC USB Processor, 64 LQFP	AT43USB380E-AU-ND◆	8.43
Development Kit for AT90CAN128 MCU	ATDVK90CAN1-ND◆	119.69

◆ *RoHS Compliant*

AVR® Dragon™

The AVR Dragon supports all programming modes for the AVR device family. The Dragon is also capable of full emulation support for devices with 32KB or less flash memory. Firmware for the device is easily upgraded using AVR Studio® to support new devices.

ATAVRDRAGON-ND..................$49.00

AVR®32 32-Bit Microcontrollers

Features: • Core Power Supply Voltage: 1.65V ~ 1.95V • I/O Power Supply Voltage: 3.0V ~ 3.6V • Operating Temperature: -40°C ~ 85°C

MIPS	SRAM (KBytes)	Flash (KBytes)	Cache (Inst/Data)	I/O Pins	USB	Ethernet MAC 10/100	Ext. Bus Interface	UART	Frequency Max. (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100
210	32	—	16KB/16KB	160	High-Speed	2	Yes	4	150	256-CTBGA	AT32AP7000-CTUT-ND	21.82	16.14	14.42
	32	—	16KB/16KB	90	High-Speed	—	Yes	4	150	208-LQFP	AT32AP7001-ALUT-ND	19.14	10.89	10.68
	32	—	16KB/16KB	85	High-Speed	—	Yes	4	150	196-CBGA	AT32AP7002-CTUT-ND	18.49	11.43	11.14
80	32	128	—	109	Full-Speed + OTG	1	Yes	4	66	144-LQFP	AT32UC3A0128-ALUT-ND	13.65	10.16	7.74
	32	128	—	69	Full-Speed + OTG	1	No	4	66	100-TQFP	AT32UC3A1128-AUT-ND	12.26	9.30	6.97
	64	256	—	109	Full-Speed + OTG	1	Yes	4	66	144-LQFP	AT32UC3A0256-ALUT-ND	15.59	11.60	8.85
	64	256	—	69	Full-Speed + OTG	1	No	4	66	100-TQFP	AT32UC3A1256-AUT-ND	14.30	10.64	8.11
	64	512	—	109	Full-Speed + OTG	1	Yes	4	66	144-LQFP	AT32UC3A0512-ALUT-ND	20.00	14.42	11.40
	64	512	—	69	Full-Speed + OTG	1	No	4	66	100-TQFP	AT32UC3A1512-AUT-ND	18.71	13.49	10.63
72	16	64	—	44	Full-Speed + OTG	—	—	3	60	64-TQFP	AT32UC3B064-A2UT-ND	9.78	7.42	5.53
	16	64	—	44	Full-Speed + OTG	—	—	3	60	64-QFN	AT32UC3B064-Z2UT-ND	9.78	7.42	5.53
	16	64	—	28	Full-Speed	—	—	2	60	48-TQFP	AT32UC3B164-AUT-ND	9.03	6.85	5.10
	16	64	—	28	Full-Speed	—	—	2	60	48-QFN	AT32UC3B164-Z1UT-ND	9.03	6.85	5.10
	32	128	—	44	Full-Speed + OTG	—	—	3	60	64-TQFP	AT32UC3B0128-A2UT-ND	10.64	8.07	6.04
	32	128	—	44	Full-Speed + OTG	—	—	3	60	64-QFN	AT32UC3B0128-Z2UT-ND	10.64	8.07	6.04
	32	128	—	28	Full-Speed	—	—	2	60	48-TQFP	AT32UC3B1128-AUT-ND	9.89	7.50	5.61
	32	128	—	28	Full-Speed	—	—	2	60	48-QFN	AT32UC3B1128-Z1UT-ND	9.89	7.50	5.61
	32	256	—	44	Full-Speed + OTG	—	—	3	60	64-TQFP	AT32UC3B0256-A2UT-ND	12.26	9.30	6.97
	32	256	—	44	Full-Speed + OTG	—	—	3	60	64-QFN	AT32UC3B0256-Z2UT-ND	12.26	9.30	6.97
	32	256	—	28	Full-Speed	—	—	2	60	48-TQFP	AT32UC3B1256-AUT-ND	11.50	8.73	6.55
	32	256	—	28	Full-Speed	—	—	2	60	48-QFN	AT32UC3B1256-Z1UT-ND	11.50	8.73	6.55

ATEVK1100 Evaluation Kit

The ATEVK1100 is an evaluation kit and development system for the AVR32 AT32UC3A microcontroller. It is equipped with a rich set of peripherals, memory, and makes it easy to try the full potential of the AVR32 devices.

ATEVK1100-ND..................$129.00

ATEVK1101 Evaluation Kit

The ATEVK1101 is an evaluation kit and development system for the AVR32 AT32UC3B microcontroller. It is equipped with a rich set of peripherals, memory, and makes it easy to try the full potential of the AVR32 devices.

ATEVK1101-ND..................$79.00

ATSTK1000 Starter Kit

The ATSTK1000 provides a complete AT32AP7000 development environment. The kit comes with a pre-installed Linux® image on a 256MB SD card.

The ATSTK1000 has options that will help in development such as, two ethernet ports, high quality QVGA LCD, a loudspeaker, PS/2, VGA, and an expansion header for prototyping.

ATSTK1000-ND..................$532.00

ATNGW100 Network Gateway Kit

The ATNGW100 is an ideal development board for the AT32AP7000. The ATNGW100 has two Ethernet ports, SD and MMC card reader and connectors for USB and JTAG. The board is preloaded with Linux® and shipped with I/O interface drivers that can be called from your own code.

ATNGW100-ND..................$94.43

NEW! ATSTK600 Starter Kit

The Atmel AVR® STK600 is a complete starter kit and development system for the AVR and AVR32 flash microcontrollers. It is designed to give designers a quick start to develop code on the AVR, combined with advanced features for using the starter kit to prototype and test new designs. The STK600 is shipped with a ATmega2560 device board.

ATSTK600-ND..................$199.00

Description	Digi-Key Part No.	Price Each
NEW! ATSTK600 Socket and Adapter Boards NEW!		
Socket and Adapter Board, 40-PDIP Devices	ATSTK600-DIP40-ND	99.00
Socket and Adapter Board, 44-TQFP Devices	ATSTK600-TQFP44-ND	99.00
Socket and Adapter Board, 100-TQFP Devices	ATSTK600-TQFP100-ND	99.00
Socket and Adapter Board, TinyX3U Devices	ATSTK600-TINYX3U-ND	99.00
Socket and Adapter Board, TQFP32 Devices	ATSTK600-TQFP32-ND	99.00
Socket and Adapter Board, SOIC Devices	ATSTK600-SOIC-ND	99.00
Socket and Adapter Board, 64-TQFP Devices	ATSTK600-TQFP64-2-ND	99.00
Socket Board and Expansion Module, 144-TQFP Devices	ATSTK600-UC3A0X-144-ND	99.00

Microcontrollers

Operating Temperature: Industrial: -40°C ~ 85°C, Commercial: 0°C ~ 70°C

8051 Microcontroller

Memory Size (Bytes)			I/O	Timer Serial Communication		Clock	Counter	Speed	VCC	Operating	Digi-Key	Price Each					
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temperature	Package	Part No.	1	25	100
32K	1K	—	32	1	1	1	Yes	3	—	24	4.5 ~ 5.5	Industrial	44-VQFP	AT87251G2D-RLTUM-ND◆	18.06	13.44	12.60

CAN

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter		Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	CAN	WDT	16-Bits	A/D	MHz	(V)	Temperature	Package	Part No.	1	25	100
4K	256	2K	36	1	Yes	2.0 A & B	No	3	8-ch/ 10-bit	40	3.0 ~ 5.5	Industrial	44-VQFP	AT89C51CC03URLRCT-ND†	14.77	12.37	10.31
							Yes						64-VQFP	AT89C51CC03URDRCT-ND†	14.99	12.55	10.46
							No						44-PLCC	AT89C51CC03USLRCT-ND†	14.45	12.10	10.08
16K	256	2K	20	1	—	2.0	Yes	3	8-ch/ 10-bit	40	3.0 ~ 5.0	Industrial	28-SOIC	T89C51CC02CATISIM-ND	9.55	6.66	5.86
													32-VQFP	T89C51CC02UARATIM-ND	9.55	6.66	5.86
16K	256	2K	20	1	—	2.0 A & B	Yes	3	8-ch/ 10-bit	40	3.0 ~ 5.5	Industrial	64-BGA	T89C51CC01CA7CTIM-ND	10.06	7.02	6.18
													28-SOIC	AT89C51CC02CA-TISUM-ND◆	8.60	6.40	6.00
													28-SOIC	AT89C51CC02UA-TISUM-ND◆	8.60	6.40	6.00
													28-PLCC	AT89C51CC02UA-SISUM-ND◆	8.60	6.40	6.00
													32-VQFP	AT89C51CC02CA-RATUM-ND◆	8.60	6.40	6.00
													32-VQFP	AT89C51CC02UA-RATUM-ND◆	8.60	6.40	6.00
32K	256	2K	34	1	—	2.0 A & B	Yes	3	8-ch/ 10-bit	40	3.0 ~ 5.5	Industrial	44-VQFP	AT89C51CC01UARLTUM-ND◆	9.57	8.01	5.88
													44-PLCC	AT89C51CC01UASLSUM-ND◆	9.57	8.01	5.88
													44-VQFP	AT89C51CC01CA-RLTUM-ND◆	9.57	8.01	6.81
													44-PLCC	AT89C51CC01CA-SLSUM-ND◆	9.57	8.01	6.81
													44-VQFP	AT89C51CC01UA-RLRUMCT-ND◆†	9.57	8.01	7.12
													44-VQFP	AT89C51CC01UA-RLRUMTR-ND◆§		10020.00/1,500	
64K	256	2K	36	1	Yes	2.0 A & B	Yes	3	8-ch/ 10-bit	40	3.0 ~ 5.5	Industrial	64-VQFP	AT89C51CC03CRDTIM-ND	11.61	8.10	7.13
							Yes						64-VQFP	AT89C51CC03URDTIM-ND	11.61	8.10	7.13
							Yes						64-VQFP	AT89C51CC03UA-RDTUM-ND◆	11.61	8.10	7.13
							Yes						44-PLCC	AT89C51CC03UASLSUM-ND◆	11.61	8.10	7.13
							No						44-PLCC	AT89C51CC03CSLRCT-ND†	14.45	12.10	10.08
							No						44-VQFP	AT89C51CC03CRLRCT-ND†	14.77	12.37	10.31
							Yes						52-PLCC	AT89C51CC03CS3RCT-ND†	14.66	12.28	10.23
							Yes						64-VQFP	AT89C51CC03CRDRCT-ND†	14.99	12.55	10.46
64K	256	2K	36	1	—	2.0 A & B	Yes	3	8-ch/ 10-bit	40	3.0 ~ 5.5	Industrial	44-PLCC	AT89C51CC03CA-SLRUMCT-ND◆†	9.72	8.10	7.13
													44-PLCC	AT89C51CC03CA-SLRUMTR-ND◆§		3565.00/500	
													44-PLCC	AT89C51CC03CA-SLSUM-ND◆	11.61	8.10	7.13
													44-VQFP	AT89C51CC03CA-RLTUM-ND◆	11.61	8.10	7.13
													44-VQFP	AT89C51CC03UA-RLTUM-ND◆	11.61	8.10	7.13
64K	256	2K	36	1	Yes	2.0 A & B	Yes	3	8-ch/ 10-bit	40	3.0 ~ 5.5	Industrial	52-PLCC	AT89C51CC03UA-S3SUM-ND◆	11.61	8.10	7.13
													52-PLCC	AT89C51CC03CA-S3SUM-ND◆	11.61	8.10	7.13
													64-VQFP	AT89C51CC03CA-RDTUM-ND◆	11.61	8.10	7.13

◆ ***RoHS Compliant*** † Cut Tape § Tape and Reel

MP3

Flash (Kbytes)	ROM (Kbytes)	EEprom (Kbytes)	RAM (Kbytes)	VCC (V)	ISP	ADC	DAC	Audio Amplifier	USB Device (Full Speed)	SPI	TWI	WDT	Package	Digi-Key Part No.	Price Each 1	25	100
64	—	4	2.3	2.7 ~ 3.3	UART, USB	8-bit	—	—	12 Mbps	Yes	Yes	Yes	80-TQFP	AT89C51SND1CROTIL-ND	15.48	10.80	9.50
64	—	4	2.3	2.7 ~ 3.3	UART, USB	8-bit	—	—	12 Mbps	Yes	Yes	Yes	80-TQFP	AT89C51SND1C-ROTUL-ND◆	15.48	10.80	9.50
—	—	—	128	1.8 ~ 5.0	—	16-bit	16-bit optional	—	FS+HS+OTG	Yes	—	—	100-LQFP	AT85C51SND3B1-RTTUL-ND◆	18.28	13.60	12.75

◆ ***RoHS Compliant***

Smart Card

Interface Type	Flash (Kbytes)	Mask ROM (Kbytes)	F.max. (MHz)	VCC (V)	ISP	Package	Digi-Key Part No.	Price Each 1	25	100
USB	—	—	—	3.6 ~ 5.5	—	64-VQFP	AT83C22OK103RDTIM-ND	12.04	8.89	7.84
USB	32	—	16	3.0 ~ 5.5	Yes	64-VQFP	AT89C5122D-RDTUM-ND◆	9.68	8.11	6.76
USB	32	—	16	3.0 ~ 5.5	Yes	64-VQFP	AT89C5122D-RDRUMCT-ND◆†	9.89	8.28	7.36
USB	32	—	16	3.0 ~ 5.5	Yes	64-VQFP	AT89C5122D-RDRUMTR-ND◆§		10335.00/1,500	
USB	32	—	16	3.0 ~ 5.5	Yes	64-VQFP	AT89C5122D-RDRIMCT-ND†	12.36	10.35	8.63
USB	32	—	16	3.0 ~ 5.5	Yes	64-QFN	AT89C5122D-PSTUM-ND◆	9.68	8.11	6.76
Serial	—	—	16	2.85 ~ 5.5	—	52-PLCC	T85C5121-S3SIL-ND	8.86	6.54	5.77
Serial	—	—	16	2.85 ~ 5.5	—	24-SSOP	T89C5121-ICUIL-ND	8.77	6.12	5.39
USB	—	—	—	3.6 ~ 5.5	—	32-VQFP	AT83C23OK203-RATUM-ND◆	9.25	7.74	6.45
—	—	—	48	3.0 ~ 5.5	—	48-VQFP	AT83C26-RKTUL-ND◆	3.50	3.00	2.50

◆ ***RoHS Compliant*** † Cut Tape § Tape and Reel

Lighting

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter		Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temperature	Package	Part No.	1	25	100
4K	256	256	2	—	—	—	Yes	-/2	6-ch/ 10-bit	24	3.0 ~ 3.6	Ind.	20-SOIC	AT89EB5114-TGSIL-ND	8.55	5.82	4.96

USB

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter		Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temperature	Package	Part No.	1	25	100
32K	32K	—	34	1	Master/ Slave	—	Yes	-/2	—	16	3.6 ~ 5.5	Ind.	32-QFN	AT89C5130A-PUTUM-ND	6.45	4.80	4.50
													64-VQFP	AT89C5130A-RDTUM-ND◆	7.10	5.28	4.95
													52-PLCC	AT89C5130A-S3SIM-ND◆	8.39	6.24	5.85
32K	1024	4K	34	1 (EUART)	Master/ Slave	—	Yes	-/3	—	32	3.0 ~ 3.6	Ind.	32-QFN	AT89C5131A-PUTUM-ND◆	7.96	5.55	4.88
32K	256	4K	34	1	Master/ Slave	—	Yes	-/3	—	24	2.7 ~ 5.5	Ind.	52-PLCC	AT89C5131A-S3SUM-ND◆	8.60	6.40	6.00
													28-SOIC	AT89C5131A-TISIL-ND	10.11	7.05	6.20
64K	2304	—	44	1	Master/ Slave	—	Yes	-/2	8-bit	20	3.0	Ind.	80-TQFP	AT89C5132-ROTUL-ND◆	13.55	10.08	9.45

◆ ***RoHS Compliant***

(Continued)

Single Cycle Core

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter		Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temperature	Package	Part No.	1	25	100
2K	256	—	15	1 (EUART)	1	—	Yes	-/2	—	20	2.4 ~ 5.5	Ind.	20-Dip	AT89LP2052-20PU-ND	2.37	1.75	1.56
													20-SOIC	AT89LP2052-20SU-ND	2.37	1.75	1.56
													20-TSSOP	AT89LP2052-20XU-ND	2.37	1.75	1.56
4K	256	—	15	1 (EUART)	1	—	Yes	-/2	—	20	2.4 ~ 5.5	Ind.	20-Dip	AT89LP4052-20PU-ND	2.58	1.91	1.70
													20-SOIC	AT89LP4052-20SU-ND	2.58	1.91	1.70
													20-TSSOP	AT89LP4052-20XU-ND	2.58	1.91	1.70

General Purpose

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter	10 Bit	Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temperature	Package	Part No.	1	25	100
2K	128	—	15	1	—	—	—	-/2	—	24	4.0 ~ 6.0	Ind.	20-Dip	AT89C2051-24PU-ND◆	1.18	.88	.79
													20-SOIC	AT89C2051-24SU-ND◆	1.18	.88	.79
4K	128	—	15	1	—	—	—	-/2	—	24	4.0 ~ 6.0	Ind.	20-SOIC	AT89C4051-24SU-ND◆	1.40	1.04	.93
4K	128	—	32	1	—	—	Yes	-/2	—	24	4.0 ~ 5.5	Ind.	44-TQFP	AT89S51-24AU-ND◆	1.40	1.04	.93
													44-PLCC	AT89S51-24JU-ND◆	1.40	1.04	.93
													40-Dip	AT89S51-24PU-ND◆	1.40	1.04	.93
8K	256	—	32	1	—	—	Yes	-/3	—	24	4.0 ~ 5.5	Ind.	44-TQFP	AT89S52-24AU-ND◆	1.51	1.12	1.00
													44-PLCC	AT89S52-24JU-ND◆	1.51	1.12	1.00
													40-Dip	AT89S52-24PU-ND◆	1.51	1.12	1.00
12K	256	2K	32	1	Master/ Slave	—	Yes	-/3	—	24	2.7 ~ 5.5	Ind.	44-TQFP	AT89S8253-24AU-ND◆	4.95	3.66	3.27
													44-PLCC	AT89S8253-24JU-ND◆	4.95	3.66	3.27
16K	256	2K	20	1	—	—	Yes	-/3	8-ch/ 10-bit	40	3.0 ~ 5.5	Ind.	32-VQFP	AT89C5115-RATUM-ND◆	9.68	7.20	6.75
													28-PLCC	AT89C5115-SISUM-ND◆	9.68	7.20	6.75
													28-SOIC	T89C5115-TISUM-ND	8.17	6.03	5.32
													28-SOIC	AT89C5115-TISUM-ND◆	9.68	7.20	6.75
16K	1280	—	32	1	Master/ Slave	—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	40-Dip	AT89C51RB2-3CSIM-ND	7.22	5.04	4.44
													40-Dip	AT89C51RB2-3CSUM-ND◆	7.53	5.60	5.25
													44-VQFP	AT89C51RB2-RLTIL-ND	7.22	5.04	4.44
													44-VQFP	AT89C51RB2-RLTUL-ND◆	8.17	6.08	5.70
													44-VQFP	AT89C51RB2-RLTUM-ND◆	7.53	5.60	5.25
16K	1280	—	32	1	Master/ Slave	—	Yes	-/3	—	60	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51RB2-SLSUL-ND◆	8.17	6.08	5.70
													44-PLCC	AT89C51RB2-SLSIM-ND	7.22	5.04	4.44
													44-PLCC	AT89C51RB2-SLSUM-ND◆	7.53	5.60	5.25
16K	1280	—	32	1	Master/ Slave	—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51RB2RLRIMCT-ND†	7.63	6.39	5.33
													44-VQFP	AT89C51RB2RLRILCT-ND†	8.40	7.03	5.86
													44-VQFP	AT89C51RB2-RLRULCT-ND◆†	8.17	6.84	6.08
													44-VQFP	AT89C51RB2-RLRULTR-ND◆§		8550.00/1,500	
20K	256	—	32	1	—	—	Yes	-/3	—	12	2.7 ~ 6.0	Com.	44-TQFP	AT89LV55-12AC-ND	4.09	3.02	2.70
												Ind.	44-TQFP	AT89LV55-12AI-ND	4.09	3.02	2.70
												Com.	44-PLCC	AT89LV55-12JC-ND	4.09	3.02	2.70
												Com.	40-Dip	AT89LV55-12PC-ND	4.09	3.02	2.70
												Ind.	40-Dip	AT89 LV55-12PI-ND	4.09	3.02	2.70
32K	1024	—	32	1	Master/ Slave	—	Yes	-/3	—	40	2.7 ~ 3.5	Com.	44-VQFP	AT89C51IC2-RLTIL-ND	8.77	6.12	5.39
											2.7 ~ 3.5	Com.	44-VQFP	AT89C51IC2-RLTUL-ND◆	9.03	6.72	6.30
											2.7 ~ 5.5	Ind.	44-VQFP	AT89C51IC2-RLTUM-ND◆	8.82	6.56	6.15
											2.7 ~ 3.6	Com.	44-PLCC	AT89C51IC2-SLSUL-ND◆	9.03	6.72	6.30
											2.7 ~ 5.5	Ind.	44-PLCC	AT89C51IC2-SLSIM-ND	8.77	6.12	5.39
											2.7 ~ 5.5	Ind.	44-PLCC	AT89C51IC2-SLSUM-ND◆	8.82	6.56	6.15
											2.7 ~ 5.5		44-PLCC	AT89C51IC2SLRIMCT-ND†	9.35	7.83	6.53
											2.7 ~ 3.5		44-PLCC	AT89C51IC2SLRILCT-ND†	10.29	8.62	7.18
											2.7 ~ 5.5		44-PLCC	AT89C51IC2-SLRULCT-ND◆†	9.25	7.74	6.88
											2.7 ~ 5.5		44-PLCC	AT89C51IC2-SLRULTR-ND◆§		3225.00/500	
											2.7 ~ 5.5	Ind.	44-PLCC	AT89C51IC2-SLRUMCT-ND◆†	9.03	7.56	6.72
													44-PLCC	AT89C51IC2-SLRUMTR-ND◆§		3150.00/500	
													44-VQFP	AT89C51IC2-RLRULTR-ND◆§		9675.00/1,500	
													44-VQFP	AT89C51IC2-RLRULCT-ND◆†	9.25	7.74	6.88
													44-VQFP	AT89C51IC2-RLRUMCT-ND◆†	8.82	7.38	6.56
											2.7 ~ 5.5	Ind.	44-VQFP	AT89C51IC2-RLRUMTR-ND◆§		9225.00/1,500	
											2.7 ~ 5.5		44-VQFP	AT89C51IC2RLRIMCT-ND†	9.57	8.01	6.68
											2.7 ~ 3.5		44-VQFP	AT89C51IC2RLRILCT-ND†	10.52	8.82	7.35
											2.7 ~ 5.5		40-DIP	AT89C51RC2-3CSUM-ND◆	9.46	7.04	6.60
32K	1024	—	32	1	Master/ Slave	—	Yes	-/3	—	48	2.7 ~ 3.6	Ind.	44-VQFP	AT89C51RC2-RLTUL-ND◆	9.68	7.20	6.75
											2.7 ~ 5.5		44-VQFP	AT89C51RC2-RLTUM-ND◆	8.60	6.40	6.00
											2.7 ~ 3.6	Ind.	44-PLCC	AT89C51RC2-SLSUL-ND◆	9.68	7.20	6.75
													44-PLCC	AT89C51RC2-SLSIM-ND	7.74	5.40	4.75
32K	1280	—	32	1	Master/ Slave	—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51RC2SLRIMCT-ND†	8.60	7.20	6.00
													44-PLCC	AT89C51RC2-SLRUMCT-ND◆†	9.68	8.10	7.20
													44-PLCC	AT89C51RC2-SLRUMTR-ND◆§		3375.00/500	
													44-VQFP	AT89C51RC2RLRILCT-ND†	9.81	8.22	6.85
													44-PLCC	AT89C51RC2SLRILCT-ND†	9.46	7.92	6.60
											2.7 ~ 5.5	Ind.	44-PLCC	AT89C51RC2-SLRULCT-ND◆†	9.68	8.10	7.20
													44-PLCC	AT89C51RC2-SLRULTR-ND◆§		3375.00/500	
													44-VQFP	AT89C51RC2RLRIMCT-ND†	8.92	7.47	6.23
32K	256	2K	34	1	—	—	Yes	-/3	—	40	3.0 ~ 5.5	Ind.	44-PLCC	T89C51AC2-SLSIM-ND	8.90	6.21	5.46
													44-VQFP	AT89C51AC2-RLTUM-ND◆	10.32	7.68	7.20
64K	2048	2K	32	1	Master/ Slave	—	Yes	-/3	8-ch/ 10-bit	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51ID2-RLTUM-ND◆	12.69	9.44	8.85
													44-PLCC	AT89C51ID2-SLSIM-ND	11.61	8.10	7.13
													44-PLCC	AT89C51ID2-SLSUM-ND◆	12.69	9.44	8.85
64K	2048	2K	32	1	Master/ Slave	Yes	Yes	-3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51ID2RLRIMCT-ND†	11.29	9.45	7.88
													44-VQFP	AT89C51ID2-RLRUMCT-ND◆†	12.90	10.80	9.60
													44-VQFP	AT89C51ID2-RLRUMTR-ND◆§		13500.00/1,500	
													44-PLCC	AT89C51ID2-SLRUMCT-ND◆†	12.90	10.80	9.60
													44-PLCC	AT89C51ID2-SLRUMTR-ND◆§		4500.00/500	
64K	1792	2048	34	1	Master/ Slave	—	Yes	-3	—	40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51RD2-SLSUM-ND◆	9.03	6.72	6.30
													44-VQFP	AT89C51RD2-RLRUMCT-ND†	9.03	7.56	6.72
													44-VQFP	AT89C51RD2-RLRUMTR-ND◆		9450.00/1,500	
													44-PLCC	AT89C51RD2-SLRUMCT-ND◆†	9.25	7.74	6.88
													44-PLCC	AT89C51RD2-SLRUMTR-ND◆§		3225.00/500	
64K	2304	2K	32	1	Master/ Slave	—	Yes	-/3	8-ch/ 10-bit	60	3.0 ~ 5.5	Ind.	44-PLCC	AT89C51AC3-SLSUM-ND◆	10.75	8.00	7.50
													44-VQFP	AT89C51AC3-RLTUM-ND◆	10.75	8.00	7.50
													52-PLCC	AT89C51AC3-S3SIM-ND	12.08	7.25	6.38
													52-PLCC	AT89C51AC3-S3SUM-ND◆	10.75	8.00	7.50
													64-VQFP	AT89C51AC3-RDTIM-ND	12.08	7.25	6.38
													64-VQFP	AT89C51AC3-RDTUM-ND◆	10.75	8.00	7.50
64K	1792	2048	32	1	Master/ Slave	—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51ED2-RLTUM-ND◆	10.32	7.68	7.20
													64-VQFP	AT89C51ED2-RDTUM-ND◆	10.97	8.16	7.65
													44-PLCC	AT89C51ED2-SLSUM-ND◆	10.32	7.68	7.20
64K	1792	2048	48	1	Master/ Slave	—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	68-PLCC	AT89C51ED2-SMSUM-ND◆	10.97	8.16	7.65
			32										44-PLCC	AT89C51ED2SLRIMCT-ND†	10.97	9.18	7.65
64K	256	2K	48	1 (EUART)	Master/ Slave	—	Yes	-/3	—	60	2.7 ~ 5.5	Ind.	68-PLCC	T89C51RD2-SMSIM-ND	11.18	9.36	7.80

◆ ***RoHS Compliant*** † Cut Tape § Tape and Reel

8051 Microcontroller Kits

AT89STK-06 Starter Kit

The AT89STK-06 Starter Kit is dedicated to the T89C51CC01/CC02 and AT89C51CC03 CAN microcontrollers. The AT89STK-06 can also be used for AT89C51AC3, T89C51AC2 and T89C5115 (Flash microcontroller with ADC).

For T89C51CC02 CAN and T89C5115, optional adaptor is required: CANADAPT28. The board is designed to allow an easy evaluation of the product using demonstration software.

AT89STK-06-ND Starter Kit **$131.67**

ATWEBEVK-01 Evaluation Kit

The @Web Evaluation Kit allows the user to evaluate the full range of options available in integrating TCP/IP software into Atmel C51 Flash MCUs. Once the user has completed the demo he will be able to Read and Write information to and from the Flash memory of the microcontroller through the Internet.

Moreover, the user will see how all of the information recorded on the microcontroller is available using standard PC tools such as a Web browser, Hyperterminal, and Dial-up Networking.

Kit Includes:

• Evaluation Board with T89C51AC2 Controller • External speaker • Serial RS-232 Null Modem Cable • 9V battery and cable • CD-ROM including documentation and software

ATWEBEVK-01-ND **$266.00**

AT89C5131 MCU/USB Starter Kit

This starter kit is designed to help developers using AT89C5131 USB Flash microcontroller. The kit comprises an evaluation board, the In-System Programming Tool (FLIP), and a HID (Human Interface Device) keyboard demonstration program.

AT89STK-05-ND Starter Kit for AT89C5131 .... **$131.67**

AT89STK-10 Quick Start

This kit includes an evaluation board dedicated to the AT89C5130/31A and AT8xC5122D microcontrollers, enabling you to run an applicaton based on the Mass Storage Package.

Kit Includes:

• Flash Evaluation Board • Nand Flash memory • DataFlash Card • USB products CD-ROM

AT89STK-10-ND........ **$150.00**

AT89STK-11 Starter Kit

The AT89STK-11 Starter Kit is dedicated to the In-System Programmable Flash C51 microcontrollers. The board is designed to allow an easy evaluation of the product using demonstration software.

AT89STK-11-ND — *RoHS Compliant* **$150.00**

ATOCD51 Emulator System

The AT89OCD emulator system is designed to allow an easy connection to Atmel AT8xC51 microcontrollers and uses the USB interface (standard USB B plug to A plug cable) connection to PC platforms. The Software package is fully integrated into Keil® µvision IDE.

AT89OCD-01-ND — *RoHS Compliant* **$150.00**

89C51SND1 MP3 Player Emulator

The AT89EMK-01 Development System for Atmel 89C51SND1 Microcontrollers derivatives with 6/12 clocks/cycle is very effective in meeting the diverse demands of emulation operations.

Features:

• Emulates 89C51SND1 Derivatives with 6/12 Clocks/Cycle • 62K Code Memory • Real-Time Emulation • Frequency up to 20MHz/3V • ISP and X2 Mode Support • MS-Windows Debugger for C and Assembler • Keil µVision2 Debugger Compatible • QFP and PLCC Emulation Headers • ISP Programmer Included • Serially Linked to PC at 115Kbaud

AT89EMK-01-ND Emulator for MP3 SND1 MCU **$1531.01**

Smart Card Development Kits

AT89RFD-02: The USB Smart Card Reader reference design allows to quickly read and write any kind of smart card through a USB link. It is based on a single-chip turnkey solution which combines the Atmel AT83C22OK/AT83C23OK microcontrollers and OMNIKEY® Firmware (smart@key and smart@link).

AT89RFD-05: The Serial Smart Card Reader reference design allows to quickly read and write any kind of smart card through a serial link. It is based on a single-chip ready-to-use solution which combines Atmel AT83C21GC microcontroller with Gemplus GemCore® Serial Lite Pro Software.

AT89RFD-06: The PCMCIA Smart Card Reader reference design allows to quickly read and write any kind of smart card through a PCMCIA link. It is based on a single-chip turnkey solution which combines the Atmel AT83C25OK microcontroller and OMNIKEY smart@bus Firmware.

AT89RFD-02-ND	AT83C22OK/23OK Reference Design	**$250.00**
AT89RFD-05-ND	AT83C21GC Reference Design	**$250.00**
AT89RFD-06-ND	PCMCIA Reader Reference Design	**$250.00**

AT8xC5122/23 Smart Card Reader Starter Kit

The Evaluation Board included in AT89STK-03 Starter Kit dedicated to the AT8xC5122/23 Smart Card Reader microcontrollers. This board is designed to allow an easy evaluation of the product using demonstration software.

Features:

The AT89STK-03-ND Evaluation Board provides the following features: • Possibility to choose between three packages: PLCC 68-pin package, VQFP 64-pin package, PLCC 28-pin package • On-board power supply circuitry with low drop regulator: From an external power connector, an external battery, and the USB line via the USB on-board connector • ISO7816 connector for Smart Card

AT89STK-03-ND Starter Kit for MCU AT8XC5122/23........ **$250.00**

Smart Card Starter Kit for T89C5121

The T8xC5121 Starter Kit includes a demonstration board (DemoB 1.2.0) allowing the evaluation of the T8xC5121 microcontrollers. Designers can either run the demonstration program or their own application. The demonstration board supports communication through RS-232 serial communication mode. The board can also be used as a programmer for the T89C5121 product.

T89C5121-SK1-ND Smart Card Starter Kit........ **$430.00**

AT89STK-09 Evaluation Board for AT83C26 Smart Card Reader IC

The AT89STK09 is a starter kit for the AT83C26 device. The AT83C26 is a smart card reader interface with 2 DC/DC converters allowing to manage up to 5 smart cards including level shifters. This device needs TWI commands to configure its registers. This device requires a host microcontroller with one or two ISO7816 Smart Card Interfaces.

Features:

• AT89STK09 board with 2 ISO7816-3 connectors and 4 SIM/SAM connectors • 2 Gemplus GemClub Smart cards • Smart Card Reader IC CD-ROM • 2 VQFP48 and 2 QFN48 samples • AT89STK09 user guide document

AT89STK-09-ND........ **$250.00**

@Web Hardwired TCP/IP Ethernet Solutions

@Web LAN51H Development Kit

The @Web LAN51H Development Kit is designed for testing high-speed Internet connectivity with Atmel 80C51 Flash MCU and the WIZnet i2Chip®, a unique hardwired embedded Ethernet TCP/IP chip.

The customer can change functions and reload firmware using In-System Programming capability. Error messages can be displayed on the LCD screen, allowing easy debug of user's application. After evaluation, the drop-in network module (IIM7010) supplied in the kit can be re-used.

ATWEBDVK-02-ND **$266.00**

Gateway Modules

ATWEBEVK-05-ND	RS232 to Ethernet Evaluation Board	**$190.27**
ATWEBEVK-06-ND	Can to Ethernet Evaluation Board	**$239.40**

@Web LAN51H Modules

Atmel provides @Web LAN51H Development Kits with additional modules directly connected to the @Web LAN51H development board. These additional modules can run the functions of either a Remote Power On-off Control, or Voice Transmission (VoIP), or Network Web Camera.

Remote Controller Features:
• On-off Control Function Using Web Server • LED On-off Control and Text LCD Display Using Web Browser 3 x 110V - 220V Relay Switches

Voice Transmission (VoIP) Features:
• Full-duplex Voice Transmission through Internet • Supports G723.1 Standard True Speech Voice Codec • Normal Microphone Input and Speaker Output • Audio DAC (MC745483) and DSP (CT8022A) • Included Loudspeaker Connector

Network WebCam Features:
• Four-channel Cmos Web Camera with Standard JPEG Coding • Video Coding: Hardware MFPEG Codec (LC82210 from Sanyo) • Video Mode: VGA, CIF, QCIF • CMOS Sensor: 1/3" Color CMOS Image Sensor (OV7620 from OmniVision), Maximum Frame Rate: 3fps with Standard C51

ATWEBDVK-02RC-ND	LAN51H and Remote Controller Kit	**$465.50**
ATWEBDVK-02VOIP-ND	LAN51H and Voice Transmission Kit	**$665.00**
ATWEBDVK-02WC-ND	LAN51H and Network WebCam Kit	**$931.00**

Digi Connect® SP Family

The Digi Connect SP device server delivers a powerful, compact and cost-effective off-the-shelf hardware platform for embedded networking solutions. The device server is the ideal platform for your custom web and network enabled embedded applications. Combining Digi and NetSilicon® technology, it eliminates the hardware design effort and delivers a true device networking solution that is powerful enough to meet your future performance requirements.

Features:

• 32-bit NET+ARM high-performance RISC processor (NS7520 55MHz) • 4MB Flash and 16MB RAM integrated • Switch-selectable RS-232/422/485 interface (DB-9M): Throughput up to 230,400 bps; 7, 8 data bits; 1, 1.5, 2 stop bits; Mark/space/even/odd parity; Full signal support with software/hardware flow control • Auto-sensing 10/100 Mbit Ethernet interface and network link

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
Device Server Adapter	602-1035-ND	189.00	DC-SP-01-C
Adapter Development Kit	602-1013-ND	1495.00	DC-SP-01-GN
Adapter Development Kit (No Raven Debugger)	602-1014-ND	895.00	DC-SP-01-GN-NR
Adapter Customizable model with JTAG interface	602-1015-ND	249.00	DC-SP-01-JT

Digi Connect® ME Family

The Digi Connect ME is a connector-style embedded module that enables manufacturers to keep pace with ever-evolving networking technology by easily adding secure web-enabled network connectivity to their products. The Digi Connect ME combines true plug-and-play functionality with the freedom and flexibility of complete product customization options.

Features:

• 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55MHz) • Wired 10/100Base-T network interface • 1 high-speed TTL serial interface • Five shared General Purpose Input/Output (GPIO) ports • Data rate: 10/100 Mbps (auto-sensing) • 3.3VDC @ 250mA typical (825mW)

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
8MB SDRAM, 2MB Flash, Std. Firmware	602-1053-ND◆	49.00	DC-ME-01T-S
8MB SDRAM, 2MB Flash, Std. Firmware, 10-pc.	602-1029-ND◆	450.00	DC-ME-01T-S-10
8MB SDRAM, 2MB Flash, Customizable	602-1054-ND◆	49.00	DC-ME-01T-C
8MB SDRAM, 2MB Flash, Customizable, 10-pc.	602-1030-ND◆	450.00	DC-ME-01T-C-10
8MB SDRAM, 4MB Flash, Customizable	602-1055-ND	55.00	DC-ME4-01T-C
8MB SDRAM, 4MB Flash, Customizable, 10-pc.	602-1031-ND◆	500.00	DC-ME4-01T-C-10
Integration Kit (for use with "S" models)	602-1057-ND◆	249.00	DC-ME-01T-KT
Development Kit (for use with "C" models)	602-1033-ND	1495.00	DC-ME-01T-GN
Development Kit without Raven Debugger (for use with "C" models)	602-1034-ND	895.00	DC-ME-01T-GN-NR
Development Kit without JTAG (for use with "C" Debugger)	602-1076-ND◆	249.00	DC-ME-01T-DB
JumpStart Kit for ME with NET+OS	602-1086-ND	499.00	DC-ME-NET
Customizable with JTAG Interface, 8MB SDRAM, 2MB Flash	602-1058-ND◆	99.00	DC-ME-01T-JT
Customizable with JTAG Interface, 8MB SDRAM, 4MB Flash	602-1059-ND	99.00	DC-ME4-01T-JT
Development Kit for LxNETES Linux	602-1050-ND	299.00	FS-9060
JumpStart Kit for Microsoft .NET Micro Framework	602-1088-ND	299.00	DC-ME-MF

◆ *RoHS Compliant*

Digi Connect® EM Family

The Digi Connect EM board-mount embedded module delivers true web-enabled and secure device networking that is easy and cost-effective to implement, while being powerful enough to meet future performance needs.

Features:

• 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55MHz) • Wired 10/100Base-T network interface • 2 high-speed TTL serial interfaces • 4MB Flash memory, 8MB RAM • 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55MHz) • Serial Peripheral Interface (SPI) • 9 shared General Purpose Input/Output (GPIO) ports • Data rate: 10/100 Mbps (auto-sensing) • 3.3VDC @ 270mA max (891mW)

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
8MB SDRAM, 4MB Flash, Std. Firmware	602-1039-ND◆	79.00	DC-EM-02T-S
8MB SDRAM, 4MB Flash, Customizable	602-1040-ND◆	79.00	DC-EM-02T-C
Development Kit without Raven Debugger (for use with "C" models)	602-1005-ND	895.00	DC-EM-02T-GN-NR
JumpStart Kit for EM with NET+OS	602-1087-ND	499.00	DC-EM-NET

◆ *RoHS Compliant*

ConnectCore™ 7U

Universal 32-bit NET+ARM embedded core processor module offers a wide range of component connectivity options and superior software design flexibility through complete development platform support options. **Features:** • Core processor module in compact 48-pin DIP form factor • Powerful 32-bit NET+ARM processor: 55MHz NS7520 with ARM7TDMI core • Integrated 10/100 Ethernet MAC/PHY • Up to 2 high speed serial ports, UART and SPI (Master) configurations • Standard mode 1^{2}C software interface

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
16MB SDRAM, 2MB Flash	602-1056-ND	99.00	FS-355
16MB SDRAM, 8MB Flash, Fingerprint License	602-1042-ND	159.00	FS-353
16MB SDRAM , 8MB Flash	602-1060-ND	119.00	FS-352
FS Forth UNC90 with 32MB SDRAM, 16MB Flash, (Atmel AT91RM9200 MCU @ 180MHz)	602-1046-ND	159.00	FS-373
Development Kit for LxNETES Linux	602-1052-ND	299.00	FS-997
Development Kit for NET+OS	602-1018-ND	1495.00	FS-998
Biometric Design Kit - IKENDI Fingerprint	602-1019-ND	895.00	FS-9007
Compact Flash Design Kit with 802.1b wireless	602-1020-ND	895.00	FS-9021
Java Design Kit - Java (Mika)	602-1021-ND	895.00	FS-9022
JTAG SuperBooster for programming flash memories with software - 3 volt.	602-1036-ND◆	795.00	FS-985
JTAG SuperBooster for programming flash memories with software - 5 volt.	602-1028-ND	795.00	FS-984
JumpStart Kit for 7U with NET+OS	602-1085-ND	499.00	CC-7U-NET

◆ *RoHS Compliant*

ConnectCore™ 9C

Highly-integrated, compact DIMM form factor module based on the 155MHz NS9360 ARM9 processor provides core processing functionality with integrated network connectivity.

It enables original equipment manufacturers to design in main processor functionality and networking capabilities with a single, high performance solution.

Features: • 32-bit NS9360 high performance RISC processor (155MHz) with MMU • Up to 4 high-speed TTL serial ports • Up to 4 SPI ports • I^{2}C v1.0 bus interface • USB 2.0 Host/Device Interface • LCD Controller • General Purpose Timers/Counters/PWM • 4 programmable external interrupts • Up to 55 shared General Purpose Input/Output (GPIO) ports • Real-time clock

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
16MB SDRAM, 4MB Flash, Ethernet Dual Stacked USB Connectors	602-1061-ND	139.00	CC-9C-V212
Development Kit for NET+OS with Raven Hardware Debugger	602-1022-ND	2495.01	CC-9C-GN
Development Kit for NET+OS with Software Debugger	602-1023-ND	1894.99	CC-9C-GN-NR
JumpStart Kit for 9C with NET+OS	602-1079-ND◆	499.00	CC-9C-NET
JumpStart Kit for 9C with Windows CE	602-1080-ND◆	499.00	CC-9C-CE6
JumpStart Kit for 9C with Embedded Linux	602-1081-ND	499.00	CC-9C-LX

◆ *RoHS Compliant*

ConnectCore™ 9P

Compact high-performance 32-bit NET+ARM processor module family combines superior performance and design integration flexibility with complete embedded software platform support. ConnectCore 9P modules are a complete set of integrated peripherals and component connectivity options in a compact and versatile form factor.

Features:

ConnectCore9P 9750: • 32-bit NET+ARM (ARM926EJ-S) high-performance RISC processor NS9750 @ 200MHz • Up to 128MB NAND Flash and 64MB SDRAM: Standard population 32MB Flash and 16MB RAM • Integrated 32-bit PCI v2.2/Cardbus Bridge (33MHz) • 16 General Purpose Timers/Counters • Up to 50 GPIO port options

ConnectCore9P 9360: • 32-bit NET+ARM (ARM926EJ-S) high-performance RISC processor NS9360 @ 177MHz • Up to 128MB NAND Flash and 128MB SDRAM: Standard population 32MB Flash and 32MB RAM • 8 General Purpose Timers/Counters or 4 PWM functions • Up to 73 GPIO port options

ConnectCore 9P Family: • Integrated 10/100 Mbps Ethernet MAC/PHY • Up to four serial interfaces w/UART and SPI mode • Integrated USB 2.0 compliant host/device interface • On-chip I^{2}C bus interface (100/400 kHz) • Flexible LCD controller with support for TFT/STN displays • External memory bus interface • Real-Time Clock (RTC) with support for external battery backup • 8KB serial EEPROM for configuration storage • On-board JTAG interface

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
16MB SDRAM, 32MB Flash with NS9750	602-1062-ND	235.00	FS-364
64MB SDRAM, 32MB Flash with NS9750	602-1043-ND◆	320.00	FS-380
32MB SDRAM, 32MB Flash with NS9360	602-1063-ND◆	215.00	FS-382
64MB SDRAM, 64MB Flash with NS9360	602-1044-ND	229.00	FS-383
(9360) Development Kit for LxNETES - Linux	602-1026-ND◆	2495.01	FS-9064
(9750) Development Kit for LxNETES - Linux	602-1025-ND	2495.01	FS-9053
(9750) Development Kit of NET+OS	602-1024-ND	2495.01	FS-9032
(9360) JumpStart Kit for 9P with 2.5NET+OS	602-1082-ND	499.00	CC-9P-NET
(9360) JumpStart Kit for 9P with Windows CE	602-1083-ND◆	499.00	CC-9P-CE6
(9360) JumpStart Kit for 9P with Embedded Linux	602-1084-ND	499.00	CC-9P-LX

◆ *RoHS Compliant*

ConnectCore™ XP

High-performance core module with Marvel® XScale® processor provides complete embedded platform support, combining industry-leading performance, multimedia capabilities and low power requirements in an ulta-compact form factor. It provides the core processor platform solution of choice for applications demanding the combination of scalable Intel PXA270 performance at speeds up tp 520MHz, on-chip video and audio capabilities, low power requirements, integrated network connectivity, and complete embedded software platform flexibility.

Kit Includes: • LxNETES v3.2 Embedded Linux Distribution (2.6.12 kernel) with GNU Host Development Tools ConnectCore XP Development Board and module, power supply and cables with schematics • 5.7" QVGA LCD Display • One JTAG Flash Programming Tool (JTAG Booster)

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
64MB SDRAM, 32MB Flash	602-1045-ND◆	295.00	FS-377
Development Kit for LxNETES - Linux	602-1027-ND	2495.01	FS-9077

◆ *RoHS Compliant*

Embedded Core Modules

These high performance, Samsung processor based, modules are members of FS Forth-System's ModARM9 family of modular solutions for embedded systems. These modules include SDRAM, flash and control logic in a compact 60x44mm form factor. Low power consumption allows for battery powered applications. Other typical applications include those in Industrial Automation, Retail Point-Of-Sale, Medical Instrumentation and Data Acquisition.

Features: • LCD Controller (STN and TFT) • Touch screen interface • USB 1.1 Host and Device Controller • 32/64/128 MBytes NAND Flash • 16/32/64/128MBytes SDRAM • 3 UART channels **A9M2410:** • Samsung's S3C2410 microcontroller • ARM920T core (200MHz) with MMU

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
FS Forth A9M2410 Module with 32MB SDRAM, 32MB Flash No Ethernet	602-1047-ND	169.00	FS-365
FS Forth A9M2410 Module with 32MB SDRAM, 32MB Flash with 10Mbps Ethernet	602-1048-ND	215.00	FS-362

Digi One™ SP

The Digi One SP delivers efficient serial-to-Ethernet connectivity and is ideal for applications where TCP Socket, UDP Socket or UDP multicast functionality is needed.

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
Device Server 1-port Serial to Ethernet	602-1075-ND	182.00	70001851

Jackrabbit™ Low-Cost Single-Board Computer

Model BL1800:
• **Board Size:** 2.50" x 3.50" x 0.94" (64mm x 89mm x 24mm) • **Input Voltage:** 8VDC ~ 40VDC, switching regulator, 49 mA typical at 24VDC • **General Purpose I/O:** 14 bi-directional, 6 inputs, 4 outputs (CMOS compatible) • **High Power Outputs:** 3 sinking (1 Amp) and 1 sourcing (500mA) • **1 Analog Input:** 9-bit resolution, 8-bit accuracy, 0.1V ~ 2.8V input range, 75ms typical acquisition time • **2 Analog Outputs:** Filtered/buffered PWM outputs • **Processor:** Rabbit 2000, clock, 29.5MHz • **Memory:** SRAM 128K, flash 256K • **Timers:** Five 8-bit cascadable timers, one 10-bit timer with 2 match registers • **Serial Ports:** (2) RS-232 (or one with CTS/RTS) rated at 1KV ESD, (1) RS-485 rated at 15kV ESD, (1) 5V CMOS compatible (programming port), 2 serial ports can be clocked • **Serial Rate**: Selectable baud rates up to 115,200 bps (RS-232), 230,400 bps (RS-485). 5 Volt CMOS compatible port up to 7.37Mbps • **Additional Features:** watchdog/supervisor, time/date clock, and backup battery

Model BL1810:
Same as BL1800, except with 14.7MHz clock, 128K flash, linear regulator (7.5~25V), 3 sinking (200mA) and 1 sourcing (100mA) high-voltage outputs, and CMOS port baud rate of 3.69Mbps.

Model BL1820:
Same as BL1810, except with no battery backup, (2) RS-232 and (2) 5V CMOS compatible (programming port)

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model BL1800	316-1079-ND	99.00	20-101-0356
Model BL1810	316-1080-ND	69.00	20-101-0357
Model BL1820	316-1081-ND	49.00	20-101-0358

Jackrabbit™ Development Kit

Digi-Key Part No. 316-1000-ND (101-0363) Only **$139.00**

Includes Jackrabbit BL1810, manual, schematics, AC adapter, prototyping board, programming cable, documentation on CD ROM, additional parts, and complete Dynamic C SE software development system (not a trial version).

Low-Cost Single-Board Computer

Features:

• Rabbit 3000® microprocessor operating at up to 7.4MHz • 512K static RAM and 512K flash memory options • 26 Digital I/O: 16 protected digital inputs and 10 high-current digital outputs • 8 Single-ended or 4 differential analog channels with Vcc monitoring option: 11-bit single-ended or 12-bit differential channels • 3 PWM outputs • Six serial ports • Battery-backed real-time clock • Watchdog supervisor

The LP3500 can be mounted to a panel or on a plastic-enclosure base.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Fox Tool Kit for 3500	316-1056-ND	200.00	101-0529
LP3500 Fox	316-1115-ND◆	199.00	20-101-0525

◆ *RoHS Compliant*

Interface OP7200 with Touchscreen

Features:

• Small Size: 4.4" x 5.7" x 1.7" (112mm x 144mm x 43mm) • 1/4 VGA LCM display (320 x 240 pixels) with white LED backlight • 9-key keypad • LCD controller and SRAM compatible with OP7100 • 4 Status LED's • 24 Digital I/O • Rabbit 2000® microprocessor operating at 22.1 MHz • Audible alarm buzzer • 128K static RAM and 256K flash memory standard • One RJ-45 Ethernet port • Four serial ports • On-board backup battery • Watchdog • External reset input • Meets NEMA 4 watertightness specifications when front-panel mounted

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model OP7200 with Touchscreen	316-1059-ND	449.00	101-0535
20" Cable for Panel Mount Keyboard/display	316-1052-ND	15.00	540-0066
OP7200 Tool Kit	316-1057-ND	200.00	101-0543

Interface OP6800 with Ethernet Port

Features:

• 122 x 32 Graphic display • 7-key keypad • 7 LED's • 24 Digital I/O • Rabbit 2000® microprocessor at 22.1MHz • 128K static RAM and 256K flash memory • One RJ-45 Ethernet port • Four serial ports • Battery-backable real-time clock, battery included • Watchdog • Reset generator • Meets NEMA 4 watertightness specifications when front-panel mounted

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model OP6800 with Ethernet Port	316-1060-ND	249.00	101-0492

RabbitCore™ Application Development Kits

Wi-Fi Application Kit

• Jumpstart your wireless application design with a complete application kit. Integrating Wi-Fi (IEEE 802.11b) with a RabbitCore™ Development Kit, embedded system integrators can now enable a wireless embedded system. Wireless connectivity eliminates Ethernet cables allowing for greater flexibility and mobility of wireless embedded Networks. **Includes:** • Linksys Wi-Fi card • RCM3100 microprocessor core module • Prototyping board • Dynamic C development system and complete documentation on CD-ROM • Serial cable for programming and debugging • 10-pin DB15 Conversion Cable • Manuals • AC adapter (U.S./Canada only)

316-1039-ND (101-0911) **$599.00**

Machine to Machine Kit

• Jumpstart your M2M application design with a complete application kit. **Includes:** • Wavecom Fastrack Modem • Device antenna • RCM3200 microprocessor core module • Prototyping board • Dynamic C development system and complete documentation on CD-ROM • Serial cable for programming and debugging • 10-pin DB15 Conversion Cable • Ethernet Crossover Cable • Manuals • AC adapter (U.S./Canada only)

316-1040-ND (101-0721) **$699.00**

Secure Embedded Web Kit

As more embedded applications feature access via the Internet, secure transmission of data is growing increasingly critical. The Secure Embedded Web Application Kit provides optimized software development tools to easily build secure web interfaces for your new and existing applications. Built around the RCM3700 RabbitCore powered by the Rabbit3000 microprocessor, the Secure Embedded Web Application Kit offers Secure Socket Layer (SSL), which implements a 128-bit lock and key solution to encrypt data transfers. **Includes:** • RCM3700 microprocessor core module • Development board with prototyping area • Dynamic C development system and complete documentation on CD-ROM • SSL • RabbitWeb • FAT file system • Serial cable for programming and debugging • Getting Started manual • AC adapter (U.S./Canada only)

316-1041-ND (101-0897) **$752.61**

Serial to Ethernet Kit

Designers now have a Serial-to-Ethernet Application Kit that is easy to use. The simple 3-Step Setup for transmitting data from a digital volt meter via a serial port to a TCP/IP stream enables even the newest user to quickly develop a Serial-to-Ethernet application. The kit features digital volt meter software libraries, sample programs and a menuing system, in addition to the Dynamic C® integrated development environment. **Includes:** • RCM3010 microprocessor core module • Prototyping board • Dynamic C development system and complete documentation on CD-ROM • Serial cable for programming and debugging • DB9 Null Modem Cable • 10-pin ® DB9 Conversion Cable • Ethernet Crossover Cable • Getting Started manual • Keypad/display unit • AC adapter (U.S./Canada only)

316-1042-ND (101-0689) **$349.00**

Embedded PLC Application Kit

This kit enables a Rabbit 3000 based single-board computer to be programmed using a standard software environment that is commonly used to program PLC's (Programmable Logic Controllers). **Features:** • Communication parameters are configurable using the Embedded PLC Utility for the Rabbit Processor • Rabbit 3000 at 44.2MHz • 10Base-T, RJ-45 (standard) • Flash Memory: 512K • SRAM: 256K + 512K • Digital Inputs: 16 • Digital Outputs: 8 • Analog Inputs: One 10-bit resolution • Analog Outputs: Two 9-bit PWM • 6 serial ports

316-1120-ND (101-1108) **$599.00**

Color Touchscreen Application Kit

• The Reach Technology Color Touchscreen with a RabbitCore creates an application kit that provides embedded systems integrators the ability to add advanced interface functionality to embedded systems. Color touchscreens provide real-time feedback, allowing for better control in industrial-automation applications. **Includes:** • RCM3720 RabbitCore with Prototyping Board • Reach Technology SLCD Graphics Touch Terminal with NEMA 4 steel enclosure • Supplemental CD's • Dynamic C development system and complete documentation on DC-ROM • User manuals, sample programs and libraries • 5 serial and conversion cables • Two AC adapters (U.S./Canada only)

316-1075-ND (101-1062) **$1062.50**

ZigBee™ Application Kit

This kit combines MaxStream®'s XBee™ RF modem with the popular RCM3720 RabbitCore module along with and easy-to-use interface to help customers build a practical ZigBee wireless control network. **Features:** • Rabbit 3000 processor at 22.1MHz • 10Base-T interface, RJ-45, 2 LEDs • Flash Memory: 512K • SRAM: 256K • MaxStream XBee (ISM 2.4GHz) • 802.15.4 standard (ZigBee compliant) • Transmit Power Output = 1mW (0 dBm) • Receiver Sensitivity = -92 dBm (1% PER) • Supported Network Topologies: Point-to-point, Point-to-multipoint, Peer-to-peer, Mesh

316-1118-ND (101-1137) **$399.54**

Camera Interface Application Kit

This kit combines a VGA camera with a popular RabbitCore module that has removable memory to provide an event-capture application. **Features:** • RabbitCore module at 44MHz, and 10/100Base-T Ethernet • 512K Flash/512K SRAM, 16MB NAND and socket for removable memory • VGA camera module, servo motors and IR motion sensor • Time stamped photos and event notification options such as email notification and FTP upload • Image Resolution: 640 x 480 (VGA) / 320 x 240 (QVGA) / 160 x 128 / 80 x 64 • Color: Up to 8-bit gray, 16-bit RGB or standard JPEG preview images • Sensor Type: Passive infrared sensor • Motor Type: Micro-servo

316-1119-ND (101-1121) **$499.00**

(Continued)

GPRS/GSM Application Kit

• This Kit provides all the tools necessary to sample and develop applications that **combine a Rabbit based control device with a GSM/GPRS modem**. The libraries and sample programs allow for a device connected to the cellular network to send SMS (text) messages to a RabbitCore module (RCM) that can interpret messages as commands and in turn execute control function. The RCM can also send/receive GPRS e-mail wirelessly to/from and PC, GSM device or cell phone. **Highlights:** • Hardware/Software for wireless RCM communication and control via GPRS/GSM • Enfora™ Spider SA-GL Quad Band wireless modem and antenna • GUI and Keypad configuration menu system • Royalty-free TCP/IP stack in source code • Sample programs/libraries for generic modem operation • Fully integrated development software: compiler, editor and debugger for control applications

316-1063-ND (101-0948) **$649.00**

Bluetooth Application/Add On Kits

• This kit provides all of the hardware and software necessary to develop a Bluetooth application. It includes an RCM3100, Embedded Blue eb506-AHC-IN Bluetooth Radio Module, prototyping board and miscellaneous cables and hardware. This kit also includes the Dynamic C Integrated Development Environment, Bluetooth drivers, libraries, sample programs and manuals. **Features**: • Bluetooth radio modules plug directly into supported RCMs and SBCs • Simple serial UART communications and control • Seamless connectivity with any Bluetooth device • 2.4GHz FHSS (Frequency Hopping Spread Spectrum) technology ensures high reliability and is robust to interference • Low current consumption for long battery life • Complete with sample applications and source code • Internal Surface-mount antenna

316-1072-ND (101-1040) Application Kit **$399.00**
316-1073-ND (101-1042) Add-On Kit **$99.00**

Rabbit Cloning Board

The Rabbit Cloning Board copies designated portions of flash memory from one Rabbit-based controller (the master) to another (the clone). Dynamic C® version 6.50 or later is needed to use the cloning board.

Benefits: • The Rabbit Cloning Board replaces a PC or EPROM burner as the primary tool to load programs, thus reducing costs and workspace • Programs may be loaded quickly onto blank, soldered on flash devices • High-speed transfers at 57,600 bps or 115,200 bps • Higher-speed data transfer of up to 921,600 bps starting with Dynamic C version 7.05 • Ideal for low-volume cloning production

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Cloning Board	316-1047-ND	89.00	101-0589
Cloning Board	316-1101-ND◆	89.00	20-101-0589

◆ *RoHS Compliant*

Rabbit 3000A™ Microprocessor

Programming the Rabbit 3000A: Microprocessor hardware and software development is easy for Rabbit users. The Rabbit 3000A is programmed using the industry-proven Dynamic C® software development system from sister division Z-World.

Key Features: • Low-EMI: typically <10 dB µV/m @ 3m • Ultra-low power modes • 1.8-3.6V (5V tolerant I/O) • 55.5MHz clock speed • 56+ digital I/O • 6 serial ports supporting IrDA and ASync (4 of which support SPI; 2 support SDLC/HDLC) • Pulse capture and measurement • Quadrature encoder inputs • PWM outputs

Standard Features: • Glueless memory and I/O interface • Direct support for 1MB code/data space (up to 6MB with glueless interface) • Battery-backable real-time clock • Watchdog timer • Remote boot/program • Slave port interface

Design Advantages: • Extensive Ethernet/Internet support and royalty-free TCP/IP stack with source and sample programs • Dynamic C® development environment for real-time development and debugging • Exceptionally fast performance for math, logic and I/O

Description	Digi-Key Part No.	Price Each 2	10	100	Rabbit Part No.
Rabbit 3000A 55.5MHz, 128LQFP	316-1061-ND	14.50	13.13	12.50	20-668-0011

Rabbit 3000A/RCM3000 Development Kit

Digi-Key Part No. 316-1017-ND (101-0523) Only **$299.00**

The Rabbit 3000A/RCM3000 Development Kit includes an RCM3010 Ethernet core module (with Rabbit 3000A microprocessor, Flash, SRAM, Ethernet hardware), a prototyping board, complete Dynamic C SE software development system (not a trial version) with TCP/IP stack and documentation on CD-ROM, power supply and serial cable for programming and debugging.

RabbitCore™ RCM3400 Analog Core Module

Features: • 3.3V operation • Powerful Rabbit 3000 microprocessor • Low-EMI (typically <10dB µV/m@3m) • RCM3400: 512K Flash/512K SRAM, RCM3410: 256K Flash/256K SRAM • 8 channel 12-bit A/D with programmable gain • 47 digital I/O, Auxiliary I/O bus • 5 serial ports (IrDA, SDLC/HDLC, Asynch, SPI) • MAC ID installed

Design Advantages: • Ready-made platform for fast time-to-market • Compact size simplifies integration • Dynamic C development environment for real-time development and debugging • Exceptionally fast performance for math, logic, and I/O

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3400	316-1099-ND	69.00	20-101-0561
RCM3410	316-1100-ND	59.00	20-101-0562

Rabbit RCM3400 RabbitCore Development Kit

Digi-Key Part No. 316-1027-ND (101-0587) Only **$399.00**

The RCM3400 Development Kit includes an RCM3400 core module, a prototyping board, AC adapter (U.S. only), 10-pin header to DE9 programming cable with integrated level-matching circuitry, complete Dynamic C SE software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the Prototyping Board.

RabbitCore Wi-Fi Add On Kit

Digi-Key Part No. 316-1067-ND (101-0998) Only **$199.00**

The Wi-Fi Add On Kit includes Interposer Board (boards are not interchangeable between RCMs with different footprints, CompactFlash Wi-Fi Board, LinkSys Wi-Fi CompactFlash Card, 20-pin to 20-pin IDC header connection ribbon cable, 10-pin IDC header to DE9F serial cable, Sample Programs and software related specifically to the Wi-Fi Add on Kits on CD, Dynamic C upgrade to 9.21 or higher on CD, Getting Started instruction and Miscellaneous connection and mounting hardware including standoffs, if necessary

RabbitCore™ RCM3100 Core Module

The RCM3100 features a battery-backable real-time clock, glueless memory and I/O interfacing, and ultra-low power "sleepy" modes. A fully enabled 8-bit slave port permits easy master-slave interfacing with another processor-based system, and an alternate I/O bus can be configured for 8 data lines and 6 address lines (shared with parallel I/O).

Features:
• Actual Size: 1.85" x 1.65" x 0.55" (47mm x 42mm x 14mm) • 29.4 MHz clock speed • 3.3V operation • Powerful Rabbit 3000™ microprocessor • Low-EMI (typically <10 dB µV/m @ 3m) • RCM3100: 512K Flash/512K SRAM • RCM3110: 256K Flash and 128K SRAM • 54 digital I/O • 6 serial ports (IrDA, SDLC/HDLC, Async, SPI) • Auxiliary I/O bus • Ultra-low power "sleepy" modes • Pulse capture and measurement • Quadrature encoder inputs • PWM outputs

Design Advantages:
• Ready-made platform for fast time-to-market • Compact size simplifies integration • Pin compatible with Ethernet RCM3000 for parallel product development • Dynamic C® development environment for real-time development and debugging • Exceptionally fast performance for math, logic, and I/O

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3100	316-1095-ND	65.00	20-101-0517
RCM3110	316-1096-ND	45.00	20-101-0518

Rabbit RCM3100 RabbitCore Development Kit

Digi-Key Part No. 316-1020-ND (101-0533) Only **$239.00**

The RCM3100 Development Kit includes an RCM3110 core module (with Rabbit 3000 microprocessor, Flash, SRAM, serial ports, and I/O ports), a prototyping board, complete Dynamic C SE software development system (not a trial version) with documentation on CD-ROM, AC adapter (U.S. only) and serial cable for programming and debugging.

RabbitCore™ RCM3000 Core Module

Features:
• Actual Size: 2.73" x 1.85" x .086" (69mm x 47mm x 22mm) • 29.4 MHz clock speed • 10Base-T • Powerful Rabbit 3000™ microprocessor • Low-EMI (typically <10 dB µV/m @ 3m) • Built-in Ethernet for simplified connectivity • 3.3V operation • RCM3000: Up to 512K Flash/512K SRAM • RCM3010: 256K Flash and 128K SRAM • 52 digital I/O • 6 serial ports (IrDA, SDLC/HDLC, Async, SPI) • Auxiliary I/O bus • Ultra-low power "sleepy" modes • Pulse capture and measurement • Quadrature encoder inputs • PWM outputs

Design Advantage:
• Ready-made platform for fast time-to-market • Dynamic C® development environment for real-time development and debugging

Description	Digi-Key Part No.	Price Each 1	10	100	Rabbit Part No.
RCM3000	316-1018-ND	83.21	73.74	67.42	101-0507
RCM3000	316-1093-ND◆	79.00	—	—	20-101-0507
RCM3010	316-1094-ND◆	59.00	—	—	20-101-0508

◆ *RoHS Compliant*

RABBIT Semiconductor

Rabbit 2000™ 8-Bit Microprocessor

Rabbit 2000 Advantages:

• Architecture for enhanced math performance • Glueless memory and I/O interface • Remote cold boot • Slave interface • 4 serial ports • 40-plus multifunctional I/O pins • Battery-backable real-time clock • Watchdog timer • Five 8-bit cascadable timers and one 10-bit timer with match registers • 488 microsecond periodic interrupt • Clocking options for low power applications

Rabbit 2000 Development Kit

Digi-Key Part No. 316-1003-ND (101-0359) Only **$139.00**

Kit includes Jackrabbit single board computer, manual, schematics, AC adapter, prototyping board, programming cable, documentation on CD ROM, additional parts and complete Dynamic C SE software development system (not a trial version).

Description	Digi-Key Part No.	Price Each 2	10	100	Rabbit Part No.
Rabbit 2000	316-1062-ND	12.34	11.38	10.41	20-668-0003

Rabbit 2000™ 8-Bit Microprocessor with TCP/IP Support

Features:

• 18.432 MHz Rabbit 2000 Processor • 10Base-T Ethernet Interface • 4 High-Current Outputs (200 mA @ 40VDC) • 4 Digital Input Points (0 ~ 5 VDC Nominal) • RS-232 Serial Port • RS-485 Serial Port • 512K Flash Memory (2 x 256K) • 128K SRAM • 7 Built-in Timers • Time/Date Real-Time Clock • Watchdog Timer

Rabbit 2000 TCP/IP Development Kit

Digi-Key Part No. 316-1005-ND (101-0401) Only **$258.70**

Kit includes Rabbit 2000™ TCP/IP development board (with Rabbit 2000 microprocessor, flash, SRAM, Ethernet hardware, 8 digital I/O), demonstration board, power supply, PC serial cable for real-time debugging and complete Dynamic C SE software development system (not a trial version) with TCP/IP on CD ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Rabbit 2000 TCP/IP Toolkit	316-1006-ND	99.00	101-0403

RabbitCore 2000™ Microprocessor Core Module

RABBITCORE 2000

- **Board Size:** 1.90" x 2.30" x 0.55" (48.3mm x 58.4mm x 14.0mm)
- **Input Voltage:** 4.75~5.25VDC
- **Current:** 98mA at 18.432 MHz, 5VDC (130mA at 25.8 MHz, 5VDC)
- **Processor:** Rabbit 2000 at 25.8MHz (18.432MHz for 2010 and 2020)
- **General Purpose I/O:** 40 parallel I/O lines grouped in five 8-bit ports (shared with serial ports)
- **Memory, I/O Interface:** 13 Address lines, 8 data lines, I/0 read/write, buffer enable, status, clock
- **Additional Digital Inputs:** (2), start up mode (for master/slave), reset in
- **Additional Digital Outputs:** Watchdog output, reset out
- **Clock:** 25.8 Mhz
- **SRAM:** 512K (128K for 2010 and 2020)
- **Flash:** 256K
- **Timers:** Five 8-bit cascadable timers, one 10-bit timers with 2 match registers
- **Serial Ports:** 4 CMOS-compatible ports. Max asynchronous baud rate is 806,400bps, maximum synchronous is 6.45Mbps. Two ports are configurable as clocked ports
- **Slave Interface:** Allows the RabbitCore 2000 to be used as an intelligent peripheral device slaved to a master processor

Additional Features: Watchdog supervisor, time/date clock, backup battery circuitry and connections for user-supplied battery. Mates to your board via dual 40-pin male connectors.

RabbitCore 2000 Development Kit

Digi-Key Part No. 316-1007-ND (101-0398) Only **$169.00**

Kit includes a model RCM2020, manual with schematics and documentation on CD-ROM, getting started guide, AC adapter, prototyping board, programming cable and complete Dynamic C SE software development system (not a trial version) on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2020	316-1082-ND	39.00	20-101-0383
RCM2000	316-1083-ND	69.00	20-101-0404
RCM2010	316-1084-ND	49.00	20-101-0405

RabbitLink™ EG2110

Rabbit-based embedded systems are normally programmed using a direct connection between a PC and the programming port of the Rabbit-based system.

The RabbitLink provides an indirect connection between the two for remote downloading and debugging.

Features: • Rabbit 2000™ microprocessor operating at 22.1 MHz • RJ-45 Ethernet port compliant with IEEE 802.3 standard for 10 Base-T Ethernet protocol • 2 Serial Ports • 3 Status LED's, labeled USER, ACT and LINK • 128K static RAM and 512K flash memory • Firmware installed • Easy setup with DHCP or simple console commands • Password protection • Remote program downloading and debugging

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
EG2110 RabbitLink Board	316-1049-ND	129.00	101-0580

RabbitCore™ RCM2100 Series Microprocessor Core Module

Features:

- Ethernet Port for 2100 and 2110 series only • 512K SRAM (128K for 2110 and 2130) • 512K Flash (256K for 2110 and 2130)

Specifications:

- **Microprocessor**: Rabbit 2000 at 22.1 MHz
- **General Purpose I/O:** 34 parallel I/O (20 configurable I/O, 8 fixed inputs, and 6 fixed outputs) (40 parallel I/O with 26 configurable I/O for 2120 and 2130)
- **Additional Inputs:** 2 Startup Mode, Reset in
- **Additional Outputs:** Status, Clock, Watchdog Out, Reset out
- **Memory I/O:** 13 buffered address, 8 buffered data, plus I/O Read-Write and Buffer Enable
- **Serial Ports:** Four 5V CMOS-compatible; 2 configurable as clocked ports
- **Serial Rate:** Max. burst rate = CLK/32 Maximum sustained rate = Burst/2
- **Connectors:** Two 2 x 20, 2mm IDC headers
- **Slave Interface:** Allows use as master or intelligent peripheral with Rabbit-based or other master controller
- **Real-Time Clock:** Yes
- **Timers:** Five 8-bit timers (4 cascadable from the first) and one 10-bit timer with 2 match registers
- **Watchdog/Supervisor:** Yes
- **Power:** 4.75~5.25VDC, 140mA
- **Operating Temperature:** -40°C ~ 70°C (-40°C ~ 85°C for 2120 and 2130)
- **Humidity:** 5~95%, non-condensing
- **Board Size:** 3.5" x 2.0" x 0.86" (89 x 51 x 22mm); 3.5" x 2.0" x 0.5" (89 x 51 x 13mm) for 2120 and 2130

RabbitCore 2000/RCM2100 Low-Cost Development Kit

Digi-Key Part No. 316-1028-ND (101-0451) Only **$279.00**

Jumpstart your evaluation and design efforts with a complete development kit, which includes RCM2100 microprocessor core module, prototyping board, Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual, and AC adapter (U.S./Canada only).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2110	316-1086-ND	59.00	20-101-0435
RCM2120	316-1087-ND	69.00	20-101-0436
RCM2130	316-1088-ND	49.00	20-101-0446

RabbitCore™ RCM2200 Microprocessor Core Module

• **Board Size:** 1.60" x 2.30" x 0.86" (41 mm x 59 mm x 22 mm) • **Input Voltage:** 4.75~5.25VDC • **Current:** 134 mA at 5VDC • **Processor:** Rabbit 2000 • **General Purpose I/O:** 26 parallel I/O lines grouped in five 8-bit ports (shared with serial ports) • **Memory, I/O Interface:** 4 address lines, 8 data lines, I/O Read-Write • **Additional Digital Inputs:** Startup mode, reset • **Additional Digital Outputs:** Status, reset • **Clock:** 22.1 MHz • **SRAM:** 128K (512K for 2250) • **Flash:** 256K (512K for 2250) • **Timers:** Five 8-bit timers, one 10-bit timer. Five timers are cascadable in pairs • **Serial Ports:** 4 CMOS-compatible ports. Max asynchronous baud rate is 691,000 bps, max synchronous is 5.53 Mbps. Two ports are configurable as clocked ports • **Slave Interface:** Allows the RCM2200 to be used as an intelligent peripheral device slaved to a master processor • Ethernet Port: 10Base-T, RJ-45, 2 LEDs (10Base-T, No RJ-45 for 2210)

Additional Features: Watchdog/supervisor, time/date clock, backup battery circuitry, and connection for user-supplied battery

RabbitCore RCM2200 Development Kit

Digi-Key Part No. 316-1012-ND (101-0475) Only **$239.00**

Kit includes RCM2200 core module (Ethernet, 256K Flash, 128K SRAM), Getting Started manual with schematics, DC power supply (U.S. only), prototyping board, PC serial cable, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2200	316-1090-ND	55.00	20-101-0454
RCM2210	316-1091-ND	59.00	20-101-0488
RCM2250	316-1092-ND	79.00	20-101-0494

RabbitCore™ RCM2300 Microprocessor Core Module

RabbitCore RCM2300:
• **Board Size:** 1.15" x 1.60" x 0.55" (29 mm x 41 mm x 14 mm) • **Input Voltage:** 4.75~5.25VDC • **Current:** 108 mA at 5VDC • **Processor:** Rabbit 2000 • **General Purpose I/O:** 29 parallel I/O lines grouped in five 8-bit ports (shared with serial ports) • **Memory, I/O Interface:** 4 address lines, 8 data lines, I/O Read-Write (extra address line and Buffer Enable via separate connections) • **Additional Digital Inputs:** Startup mode, reset • **Additional Digital Outputs:** Status, reset • **Clock:** 22.1 MHz • **SRAM:** 128K • **Flash:** 256K • **Timers:** Five 8-bit timers, one 10-bit timer. Five timers are cascadable in pairs • **Serial Ports:** 4 CMOS-compatible ports. Max asynchronous baud rate is 691,000 bps, maximum synchronous is 5.53 Mbps. Two ports are configurable as clocked ports • **Slave Interface:** Allows the RCM2300 to be used as an intelligent peripheral device slaved to a master processor

Additional Features: Watchdog/supervisor, time/date clock, backup battery circuitry, and connection for user-supplied battery

RabbitCore RCM2300 Development Kit

Digi-Key Part No. 316-1015-ND (101-0480) Only **$199.00**

Kit includes RCM2300 core module (256K Flash, 128K SRAM), Getting Started manual with schematics, DC power supply (U.S. only), prototyping board, PC serial cable, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2300	316-1089-ND	42.00	20-101-0453

RabbitCore™ RCM3200 Microprocessor Core Module

Designing with RabbitCores: RabbitCores are powered by high-performance 8-bit Rabbit microprocessors with extensive integrated features and a C-friendly instruction set designed for use with the Dynamics C® development system. Embedded systems using the Ethernet RabbitCore module can be controlled and monitored (as well as programmed and debugged when using appropriate accessory hardware) across any network or the Internet.

Programming the RCM3200: Programs are developed using our industry-proven Dynamics C software development system (SE version included in low-cost development kits). An extensive library of drivers and sample programs is provided, along with royalty-free TCP/IP stack with source.

RabbitCore RCM3200: • **Board Size:** 2.73" x 1.85" x 0.86" (69 mm x 47 mm x 22 mm) (2.73" x 1.85" x 0.48" (69 x 47 x 12mm) for 3220) • **Power:** 3.15~3.45VDC • **Current:** 255 mA at 3.3V • **Processor:** Rabbit 3000 at 44.2 MHz • **General Purpose I/O:** 52 digital I/O (44 configurable I/O, 4 fixed inputs, and 4 fixed outputs) • **Additional Digital Inputs:** 2 Startup Mode, Reset in • **Additional Digital Outputs:** Status, Reset out • **Real-Time Clock:** Yes • **SRAM:** 512K program + 256K data • **Flash:** 512K • **Timers:** Ten 8-bit timers (6 cascadable from the first) and one 10-bit timer with 2 match registers • **Serial Ports:** 6 CMOS-compatible: 6 configurable as asynchronous (with IrDA), 4 as clocked serial (SPI), and 2 as SDLC/HDLC (with IrDA), 1 asynchronous clocked serial port dedicated for programming, Support for MIR/SIR IrDA transceiver • **Slave Interface:** Allows use as master or intelligent peripheral with Rabbit-based or other master controller

Additional Features: Ethernet Port for 3200 series only, Watchdog/Supervisor, Pulse-Width Modulators, Quadrature Decoder and Backup Battery

RabbitCore RCM3200 Low-Cost Development Kit

Digi-Key Part No. 316-1023-ND (101-0552) Only **$349.00**

Kit includes RCM3200 RabbitCore, Getting Started manual, DC power supply (U.S. only), prototyping board, Serial Cable for Programming and debugging, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3200	316-1097-ND	89.00	20-101-0520
RCM3220	316-1098-ND	79.00	20-101-0522

RabbitCore™ RCM3600 Core Module

Features:
• 3.3V operation • Powerful Rabbit 3000A processor • 256K (3610) ~ 512K (3600) Flash Memory • 128K (3610) ~ 512K (3600) SRAM • 33 digital I/O • 4 Serial Ports • Size: 2.11" x 1.23" (54mm x 31mm)

Design Advantages:
• Low Cost Solution • Ready made platform for easy design implementation • Compact Size • Dynamic C® development environment for real-time developing and debugging • Fast performance for math, Logic, and I/O

RabbitCore RCM3600 Development Kit

Digi-Key part number 316-1037-ND (101-0678) Only **$299.00**

The RCM3600 Development Kit includes RCM3600 core module, proto board, AC Adapter (U.S. Only), Programming Cable, Complete Dynamic C software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the proto board.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3600	316-1102-ND	49.00	20-101-0672
RCM3610	316-1103-ND	45.00	20-101-0673

RabbitCore™ RCM3370 Core Module

The RCM3370 modules present a new form of embedded flexibility with removable xD-Picture Cards™. Supporting on-board 16 MB NAND Flash as well as memory cards of up to 128 MB, this RabbitCore is ideal for large data applications requiring low-power operation.

Features:

• Powerful Rabbit 3000 microprocessor @ 44 MHz clock • 10/100 Base-T Ethernet connectivity • 3.3V operation • 512K Flash/512K Program + 512K data SRAM • 49 digital I/O and 5 serial ports (RCM3300/3310) • 52 digital I/O and 6 serial ports (RCM3370) • Board size 1.85" x 2.73" x 0.86" (47mm x 69mm x 22mm)

Design Advantages:
• Ideal for network enabling security and access systems, home automation, HVAC systems, and industrial controls

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3370	316-1045-ND	98.00	101-0950

RabbitCore™ RCM3700 Core Module

Features:
• 512K Flash (256K for 3710) • 512K SRAM (128K for 3710 and 256K for 3720) • 3.3V operation • Powerful Rabbit 3000A processor • 33 digital I/O • 4 Serial Ports

Design Advantages: • Low Cost Solution • Ready Made platform for easy design implementation • Compact Size • Dynamic C® development environment for real-time developing and debugging • Fast performance for math, Logic, and I/O

RabbitCore RCM3700 Development Kit

Digi-Key part number 316-1038-ND (101-0680) Only **$299.00**

The RCM3700 Development Kit includes RCM3700 core module, proto board, AC Adapter (U.S. Only), Programming Cable, Complete Dynamic C software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the proto board.

RabbitCore Wi-Fi Add On Kit

Digi-Key part number 316-1068-ND (101-0999) Only **$199.46**

The Wi-Fi Add On Kit includes Interposer Board (boards are not interchangeable between RCMs with different footprints), CompactFlash Wi-Fi Board, LinkSys Wi-Fi CompactFlash Card, 20-pin ~ 20-pin IDC header connection ribbon cable, 10-pin IDC header to DE9F serial cable, Sample programs and software related specifically to the Wi-Fi Add-On Kits on CD, Dynamic C upgrade to 9.21 or higher on CD, Getting Started instruction and Miscellaneous connection and mounting hardware including standoffs, if necessary

RabbitCore RCM3720 Development Kit

Digi-Key part number 316-1065-ND (101-0963) Only **$199.00**

The RCM3720 Development Kit includes RCM3720 core module, proto board, AC Adapter (U.S. Only), Programming Cable, Complete Dynamic C software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the proto board.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3700	316-1104-ND	59.00	20-101-0674
RCM3710	316-1105-ND	49.00	20-101-0675
RCM3720	316-1107-ND	55.00	20-101-0961

PowerCore Flex™ 3800/3810

With available on-board power supply, analog features, and the fastest Rabbit 3000 microprocessor the PowerCore bridges the gap between microcontrollers and single board computers. With the introduction of the PowerCore, Rabbit Semiconductor has added over 1000 new core modules to its product line through FLEXible manufacturing. Featuring customizable options such as microprocessor speed, power supply, memory, analog features and Ethernet capability, PowerCore Rabbit Core Modules can be customized at the Rabbit Semiconductor website via the user-friendly On-Line Flex Configurator Tool.

Features: • Clock speed up to 51.6MHz • On-board Power Supply (10VAC ~ 60VAC, 8VDC ~ 43VDC) • On-board analog (AC Crossover, ramp generator, temperature sensor) • 512K Flash • Maximum 1MB SRAM (512K code/512K data) • Maximum 1MB Serial Flash • 39 general-purpose I/O • 10/100 Compatible Ethernet

PowerCore RCM3800 Development Kit

Digi-Key part number 316-1070-ND (101-1016) Only $169.00

Jumpstart your evaluation and design efforts with a development kit. The kit includes a PowerCore, prototyping board, serial cable for programming and debugging, Dynamic C with royalty-free TCP/IP stack and source, Getting Started Manual, AC Transformer and miscellaneous parts and connectors.

PowerCore RCM3810 Development Kit

Digi-Key part number 316-1071-ND (101-1018) Only $143.75

Jumpstart your evaluation and design efforts with a development kit. The kit includes a PowerCore, prototyping board, serial cable for programming and debugging, Dynamic C with royalty-free TCP/IP stack and source, Getting Started Manual, AC Transformer and miscellaneous parts and connectors.

PowerCore Flex Kit

Digi-Key part number 316-1064-ND (101-0956) Only $99.00

Includes our Dynamic C development system and complete documentation on CD-ROM, a demo board with 4 LED's, 4 switches and buzzer, serial cable for programming and debugging, Getting Started manual and AC adapter

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3800	316-1108-ND	124.13	20-101-1006
RCM3810	316-1109-ND	70.00	20-101-1007
LCD/Keypad Panel Mount	316-1116-ND	99.00	20-101-0541

RabbitCore™ 4000/4100/4200 Series

The Rabbit 4000 is fast, running at up to 60MHz, with compact code and direct software support for 16-bit memory devices. It operates at 3.3V I/O standard or can be set to 1.8V for lower power. The Rabbit 4000 boasts 6 serial ports with IrDA, 40+ digital I/O, quadrature decoder, PWM outputs, pulse capture and measurement capabilities, battery-backable real-time clock, glueless memory and I/O interfacing and ultra-low power modes.

The RCM4100 series is the first of the next generation core modules to take advantage of the new Rabbit 4000 microprocessor.

RCM4100 Features: • Rabbit 4000 microprocessor@ 58.98MHz (29.49MHz for 4110) • 512K Flash • 512K data SRAM (256K for 4110) • Program-Execution Fast SRAM: 512K (None for 4110) • 40 parallel I/O (29 for 4100) • 6 high-speed, CMOS-compatible Ports • Ten 8-bit timers, one 10-bit timer and one 16-bit timer • Power: 125mA (typical) @ 3.3V (65mA (typical) @ 3.3V for 4110) • Board Size: 1.41" x 1.88" x 0.49" (36 x 48 x 12mm)

The RCM4200 RabbitCore modules are equipped with 10/100 Ethernet connectivity, combined with 4Mbytes or 8Mbytes serial flash memory storage for intensive communication and data logging applications. At the heart of the RCM4200 is the Rabbit 4000 microprocessor which features a clock speed of up to 58.98MHz. The rabbit 4000 boasts and additional 500+ new operational code instructions that increases the processing efficiency, from its predecessor the Rabbit 3000 The RCM4200 RabbitCore modules are easily interchangeable with other RCm4xxx based products due to electrical and functional compatibility.

RCM4200 Features: • Rabbit 4000 microprocessor @ 58.98MHz (29.49MHz for 4210) • Spectrum spreader for reduced EMI • Ethernet Port: 10/100Base-T, RJ-45, 3 LEDs • 512K (8-bit) SRAM and Flash • Serial Flash Memory: 8Mbytes (4 Mbytes for 4210) • 25 paralled digital I/O (35 paralled digital for 4210) • A/D: 12 bits • Up to 4 serial ports (up to 5 for 4210) • Real Time Clock • Ten 8-bit timers, one 10-bit timer and one 16-bit timer • Watchdog/Supervisor • Power: 240mA (typical) @ 3.3V (200mA @ 3.3V for 4210) • Board Size: 1.84" x 2.42" x 0.84" (47 x 61 x 21mm)

All Development Kits include a core module, a development board with prototyping are, Dynamic C 10 development system and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual and AC adapter (U.S./Canada only).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
CPU RABBIT 4000	316-1078-ND	12.50	20-668-0024
RCM4100	316-1121-ND	75.00	20-101-1105
RCM4120	316-1122-ND	64.00	20-101-1154
RCM4200	316-1124-ND	109.43	20-101-1131
RCM4210	316-1125-ND	99.00	20-101-1132
RCM4010 Development Kit	316-1077-ND	239.00	101-1114
RCM4100 Development Kit	316-1123-ND	229.00	101-1157
RCM4110 Development Kit	316-1076-ND	199.00	101-1101
RCM4200 Development Kit	316-1126-ND	269.00	101-1155

RabbitCore™ 3360/3365/3375 Series

The RCM3360/RCM3365/RCM3375 modules present a new form of embedded flexibility with removable xD-Picture Cards™. Supporting on-board 16 MB NAND Flash as well as memory cards of up to 128 MB, this RabbitCore is ideal for large data applications requiring low-power operation. (xD-picture card socket only for 3375 Series)

Features:

• Powerful Rabbit 3000 microporcessor @ 44.2MHz • Ethernet Port: 10/100Base-T, RJ-45, 3 LEDs • 3.3V operation • 512K Flash/512K Program + 512K data SRAM • 49 digital I/O and 5 serial ports • 52 digital I/O and 6 serial ports • Board Size: 1.85" x 2.73" x 0.86" (47 x 69 x 22mm)

RabbitCore RCM3365 Development Kit

Digi-Key Part No. 316-1074-ND (101-1053) Only $399.00

The RCM3365 Development Kit includes RCM3365 microprocessor core module, development board with prototyping area, 2 CDs – Dynamic C and Dynamic FAT File System module – with complete product documentation on disk, 32MB *xD-Picture Card™*, Screwdriver and Ethernet Cable, serial cable for programming and debugging, Getting Started manual and AC adapter (U.S./Canada only).

RabbitSys™ Development Kit

Digi-Key Part No. 316-1130-ND (101-1088) Only $406.98

Features: • Remote Firmware and Application Update Mechanism • Remote Debugging and Monitoring Systems • Software-Crash Recovery System • Enhanced Memory Protection Features • Event Handler and Corrective Action Operations • Console and Preloaded Device Drivers

Jumpstart your evaluation and design efforts with a complete development kit, which includes RCM3365 RabbitSys Core Module, Prototyping Board, xD-Picture Card, Dynamic C 9.3x to support RabbitSys, RabbitSys CD, FAT File v.2.11, Cables and Accessories, Getting Started Manual and Power Supply (U.S./Canada only).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3365	316-1111-ND	105.00	20-101-1051
RCM3375	316-1112-ND	98.00	20-101-1055

RabbitCore™ 3305/3310/3315 Series

Features: • 3.3V Operation • Powerful Rabbit 3000A microprocessor • 512K Flash/512K SRAM • 8 Mbyte Serial Flash for 3305 and 4 Mbyte for 3315 • 49 digital I/O • 5 Serial Ports

Design Advantages: • Ready-Made Platforms for quick design to market • Compact size • Dynamic C® development environment for real-time developing and debugging • Fast performance for math, logic and I/O

RabbitCore RCM3305 Development Kit

Digi-Key Part No. 316-1129-ND (101-1069) Only $399.00

The RCM3305 Development Kit includes RCM3305 microprocessor core module, development board with prototyping area, Dynamic C development system and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual and AC adapter (U.S./Canada only).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3305	316-1113-ND	119.00	20-101-1067
RCM3315	316-1114-ND	99.00	20-101-1068

RabbitCore™ 3750 Series

The RCM3750 RabbitCore mounts directly onto a user-designed motherboard using a single dual-row IDC header and can interface with all CMOS-compatible digital devices. Digital I/O (shared with serial ports), power and other signals are directly routed to the motherboard. Built-In low EMI features, including a clock spectrum spreader, practically eliminate EMI problems, which helps OEMs pass European CE and other regulatory RF emissions tests.

Features:

• Rabbit 3000 microprocessor at 22.1MHz • 512K Flash and SRAM • 1MB Serial Flash • 33 digital I/O (31 configurable I/O and 2 fixed outputs) • Four 3.3V CMOS-compatible Serial Ports • Real-Time Clock • Ten 8-bit timers • Watchdog/Supervisor • 4 PWM output channels • Input: 4.75 ~ 5.25VDC, 175mA @ 22.1MHz; 150mA @ 11.05MHz • Board Size: 2.95" x 1.20" x 0.89" (75 x 30 x 23mm)

RabbitCore RCM3750 Development Kit

Digi-Key Part No. 316-1117-ND (101-1049) Only $329.00

The RCM3750 Development Kit includes RCM3750 microprocessor core module, development board with prototyping area, Dynamic C development system and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual and AC adapter (U.S./Canada only).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM3750	316-1110-ND	74.00	20-101-1028

C8051F High Performance Mixed-Signal MCUs

Precision Mixed-Signal Microcontrollers; Full-Featured MCUs with a Supercharged 8051 CPU

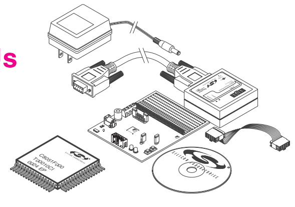

The Precision Mixed-Signal microcontroller family combines high-precision analog data converters with a high-throughput 8051 CPU making them ideal for analog and compute-intensive applications. ADC resolutions range from 8 ~ 24 bits and CPU throughputs range from 20 ~ 100 MIPS. Other on-chip analog peripherals include DACs (resolutions to 12-bits), a voltage reference, comparators, a temperature sensor and oscillators. Digital peripherals include external memory interface, timers, PCA (programmable counter array) modules, and UART, SPI and SMBus serial ports. **Features: • C8051F01x, C8051F12x, C8051F13x:** Ext. Memory Interface, Temperature Sensor and VREF **• C8051F02x and C8051F00x:** Temperature Sensor and VREF **• C8051F35x:** Temperature Sensor, PGA, and VREF **• C8051F064 and C8051F066:** Ext. Memory, and VREF **• C8051F065 and C8051F067:** VREF

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	ADC2	DAC	Comp.	Other	Internal Osc.	MIPS (peak)	Package	Digi-Key Part No.	Price Each			Silicon Labs Part No.	Development Kit Part No.
															1	25	100		
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±2%	50	100-TQFP	336-1061-1-ND*	29.51	21.85	17.63	C8051F126R	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1081-1-ND*	34.01	25.20	20.32	C8051F122R	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1082-1-ND	32.88	24.36	19.64	C8051F123R	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1148-ND	18.27	15.75	12.20	C8051F131	C8051F120DK
64K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1149-ND	15.43	13.74	10.65	C8051F132	C8051F120DK
64K	4352	59	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	—	—	3	DMA	±2%	25	100-TQFP	336-1089-1-ND*	16.29	12.54	10.45	C8051F064	C8051F064EK
64K	4352	32	5	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1035-1-ND*	23.16	16.67	13.23	C8051F023R	C8051F020DK
64K	4352	24	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	—	—	3	DMA	±2%	25	64-TQFP	336-1090-1-ND*	15.81	12.17	10.14	C8051F065	C8051F064EK
32K	4352	24	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	—	—	3	DMA	±2%	25	64-TQFP	336-1092-1-ND*	14.76	11.36	9.47	C8051F067	C8051F064EK
32K	2304	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1030-1-ND*	22.44	16.15	12.81	C8051F015R	C8051F005DK
32K	2304	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	48-TQFP	336-1031-1-ND*	22.08	15.89	12.61	C8051F016R	C8051F005DK
32K	2304	8	4	5	UART, SMBus, SPI	12-Bit, 4-Ch. 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	25	32-LQFP	336-1041-1-ND*	22.59	16.25	12.90	C8051F007R	C8051F005DK
32K	2304	8	4	5	UART, SMBus, SPI	10-Bit, 4-Ch. 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	25	32-LQFP	336-1042-1-ND*	21.84	15.71	12.47	C8051F017R	C8051F005DK
32K	256	32	4	5	UART, SMBus, SPI	12-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	64-TQFP	336-1000-1-ND*	22.17	15.95	12.66	C8051F000R	C8051F005DK
32K	256	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	64-TQFP	336-1005-1-ND*	20.76	14.94	11.85	C8051F010R	C8051F005DK
32K	256	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	48-TQFP	336-1006-1-ND*	20.37	14.66	11.63	C8051F011R	C8051F005DK
32K	256	8	4	5	UART, SMBus, SPI	10-Bit, 4-Ch. 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	20	32-LQFP	336-1007-1-ND*	19.83	14.27	11.32	C8051F012R	C8051F005DK
16K	1280	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	—	2	—	±20%	25	48-TQFP	336-1049-1-ND*	17.46	12.56	9.97	C8051F019R	C8051F005DK
8K	768	17	4	3	UART, SPI, SMBus	24-Bit, 8-Ch., 1ksps	—	8-Bit, 2-Ch.	1	—	±2%	50	28-MLP	336-1085-1-ND*	7.12	5.75	4.76	C8051F351R	C8051F350DK
8K	768	17	4	3	UART, SPI, SMBus	16-Bit, 8-Ch., 1ksps	—	8-Bit, 2-Ch.	1	—	±2%	50	32-LQFP	336-1086-1-ND	6.41	5.17	4.28	C8051F352R	C8051F350DK
8K	768	17	4	3	UART, SPI, SMBus	16-Bit, 8-Ch., 1ksps	—	8-Bit, 2-Ch.	1	—	±2%	50	28-MLP	336-1087-1-ND	5.38	4.34	3.59	C8051F353R	C8051F350DK
RoHS Compliant																			
128K	8448	64	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1223-ND	24.98	20.25	17.55	C8051F120-GQ	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1226-ND	23.14	18.77	16.27	C8051F122-GQ	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±2%	50	100-TQFP	336-1228-ND	21.90	17.76	15.40	C8051F124-GQ	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±2%	50	100-TQFP	336-1230-ND	20.07	16.28	14.11	C8051F126-GQ	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	16x16 MAC	±2%	100	100-TQFP	336-1232-ND	17.87	14.49	12.56	C8051F130-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1225-ND	24.18	19.61	17.00	C8051F121-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1227-ND	22.39	18.15	15.73	C8051F123-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±2%	50	64-TQFP	336-1229-ND	21.09	17.10	14.82	C8051F125-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±2%	50	64-TQFP	336-1231-ND	19.31	15.66	13.58	C8051F127-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	16x16 MAC	±2%	100	64-TQFP	336-1233-ND	17.15	13.91	12.06	C8051F131-GQ	C8051F120DK
64K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	16x16 MAC	±2%	100	100-TQFP	336-1234-ND	14.97	12.14	10.52	C8051F132-GQ	C8051F120DK
64K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	16x16 MAC	±2%	100	64-TQFP	336-1235-ND	14.23	11.54	10.00	C8051F133-GQ	C8051F120DK
64K	4352	64	5	5	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit, 2-Ch.	2	—	±20%	25	100-TQFP	336-1199-ND	20.39	16.53	14.33	C8051F020-GQ	C8051F020DK
64K	4352	64	5	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±20%	25	100-TQFP	336-1202-ND	16.22	13.16	11.41	C8051F022-GQ	C8051F020DK
64K	4352	59	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	100-TQFP	336-1218-ND	14.37	11.66	10.11	C8051F064-GQ	C8051F060DK
64K	4352	32	5	5	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±20%	25	64-TQFP	336-1201-ND	19.67	15.95	13.82	C8051F021-GQ	C8051F020DK
64K	4352	32	5	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±20%	25	64-TQFP	336-1203-ND	15.06	12.21	10.59	C8051F023-GQ	C8051F020DK
64K	4352	24	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	64-TQFP	336-1220-ND	13.95	11.31	9.81	C8051F065-GQ	C8051F060DK
32K	4352	59	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	100-TQFP	336-1221-ND	13.58	11.01	9.55	C8051F066-GQ	C8051F060DK
32K	4352	24	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	64-TQFP	336-1222-ND	13.02	10.56	9.16	C8051F067-GQ	C8051F060DK
32K	2304	32	4	5	UART, SMBus, SPI	12-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1187-ND	15.19	12.32	10.68	C8051F005-GQ	C8051F005DK
32K	2304	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1194-ND	14.36	11.64	10.09	C8051F015-GQ	C8051F005DK
32K	2304	16	4	5	UART, SMBus, SPI	12-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	48-TQFP	336-1189-ND	14.80	12.00	10.40	C8051F006-GQ	C8051F005DK
32K	2304	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	48-TQFP	336-1195-ND	14.12	11.45	9.92	C8051F016-GQ	C8051F005DK

* For Tape and Reel part number, change 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing.

(Continued)

C8051F High Performance Mixed-Signal MCUs

Precision Mixed-Signal Microcontrollers; Full-Featured MCUs with a Supercharged 8051 CPU *(Cont.)*

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	ADC2	DAC	Comp.	Other	Internal Osc.	MIPS (peak)	Package	Digi-Key Part No.	Price Each			Silicon Labs Part No.	Development Kit Part No.
															1	25	100		
32K	2304	8	4	5	UART, SMBus, SPI	12-Bit, 4-Ch., 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	25	32-LQFP	336-1190-ND	14.45	11.72	10.16	C8051F007-GQ	C8051F005DK
32K	2304	8	4	5	UART, SMBus, SPI	10-Bit, 4-Ch., 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	25	32-LQFP	336-1196-ND	13.97	11.33	9.82	C8051F017-GQ	C8051F005DK
32K	256	32	4	5	UART, SMBus, SPI	12-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	64-TQFP	336-1184-ND	14.17	11.49	9.96	C8051F000-GQ	C8051F005DK
32K	256	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	64-TQFP	336-1191-ND	13.28	10.77	9.34	C8051F010-GQ	C8051F005DK
32K	256	16	4	5	UART, SMBus, SPI	12-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	48-TQFP	336-1185-ND	13.95	11.31	9.81	C8051F001-GQ	C8051F005DK
32K	256	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	48-TQFP	336-1192-ND	13.02	10.56	9.16	C8051F011-GQ	C8051F005DK
32K	256	8	4	5	UART, SMBus, SPI	12-Bit, 4-Ch., 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	20	32-LQFP	336-1186-ND	13.73	11.13	9.65	C8051F002-GQ	C8051F005DK
32K	256	8	4	5	UART, SMBus, SPI	10-Bit, 4-Ch., 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	20	32-LQFP	336-1193-ND	12.67	10.28	8.91	C8051F012-GQ	C8051F005DK
16K	1536	15	2	—	USB 2.0, UART	—	—	—	—	Separate I/O	±1.5%	25	28-QFN	336-1296-5-ND	4.46	3.57	2.97	C8051F326-GM	C8051F326DK
16K	1536	15	2	—	USB 2.0, UART	—	—	—	—	Fixed I/O	±1.5%	25	28-QFN	336-1297-5-ND	4.46	3.57	2.97	C8051F327-GM	C8051F326DK
16K	1280	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	—	±20%	25	64-TQFP	336-1197-ND	11.58	9.39	8.14	C8051F018-GQ	C8051F005DK
16K	1280	21	4	5	UART, SMBus, SPI	10-Bit, 13-Ch. 200ksps	—	—	2	—	±2%	25	24-QFN	336-1281-5-ND	5.18	4.14	3.45	C8051F316-GM	C8051F310DK
16K	1280	21	4	5	UART, SMBus, SPI	—	—	—	2	—	±2%	25	24-QFN	336-1282-5-ND	4.59	3.68	3.06	C8051F317-GM	C8051F310DK
16K	1280	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	—	±20%	25	48-TQFP	336-1198-ND	11.17	9.06	7.86	C8051F019-GQ	C8051F005DK
8K	768	17	4	3	UART, SMBus, SPI	24-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	32-LQFP	336-1270-ND	9.02	7.22	6.02	C8051F350-GQ	C8051F350DK
8K	768	17	4	3	UART, SMBus, SPI	24-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	28-MLP	336-1271-ND	7.40	5.93	4.94	C8051F351-GM	C8051F350DK
8K	768	17	4	3	UART, SMBus, SPI	16-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	32-LQFP	336-1272-ND	6.68	5.35	4.46	C8051F352-GQ	C8051F350DK
8K	256	17	4	3	UART, SMBus, SPI	16-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	28-MLP	336-1273-ND	5.60	4.49	3.74	C8051F353-GM	C8051F350DK

* For Tape and Reel part number, change 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing.

NEW! 8kB ISP Flash MCU Family

The C8051F520A/530A family of devices are fully integrated, low power, mixed signal system-on-a-chip MCUs.

Performance Specifications:

- High-speed pipelined 8051-compatible microcontroller core (up to 25MIPS)
- In-system, full-speed, non-intrusive debug interface (on-chip)
- True 12-bit 200ksps ADC with analog multiplexer and up to 16 analog inputs
- Precision programmable 24.5 MHz internal oscillator that is ±0.5% across voltage and temperature
- Up to 7680 bytes of on-chip Flash memory
- Enhanced UART and SPI serial interfaces implemented in hardware
- LIN 2.0 peripheral (V2.0 and 1V.3 compatible, master and slave modes)
- Three general purpose 16-Bit timers
- Programmable Counter/Timer Array (PCA) with three capture/compare modules and Watchdog Timer function
- On-Chip Power-On Reset, V_{DD} Monitor and Temperature Sensor
- On-Chip Voltage Comparator

With on-chip Power-On Reset V_{DD} monitor, Watchdog Timer and Clock oscillator, the C8051F520A/530A devices are truly standalone system-on-a-chip solutions. The Flash memory is byte writable and can be reprogrammed in-circuit, providing non-volatile data storage and also allowing field upgrades of the 8051 firmware. User software has complete control of all peripherals and may individually shut down any or all peripherals for power savings.

The on-chip Silicon Laboratories 2-Wire (C2) Development Interface allows non-intrusive (uses no on-chip resources), full speed, in-circuit debugging using the production MCU installed in the final application. This debug logic supports inspection and modification of memory and registers, setting breakpoints, single stepping and run and halt commands. All analog and digital peripherals are fully functional while debugging using C2. The two C2 interface pins can be shared with user functions, allowing in-system programming and debugging without occupying package pins.

Each device is specified for 1.8 ~ 5.25V operation (supply voltage can be up to 5.25V using on-chip regulator) over the automotive temperature range (-40 ~ 125°C). The F520A is available in the DFN10 (3 x 3mm) package. The F530A is available in the QFN20 (4 x 4mm) or the TSSOP20 package.

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	Comp.	Other	Internal Osc.	MIPS (peak)	Package	Digi-Key Part No.	Price Each			Silicon Labs Part No.	Development Kit Part No.
													1	25	100		
8K	256	6	3	3	LIN 2.0, SPI, UART	12-Bit, 6-Ch., 200ksps	1	VREG	±0.5%	25	10-DFN	336-1484-5-ND	3.78	3.03	2.52	C8051F520A-IM	C8051F530ADK
8K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16 Ch., 200ksps	1	VREG	±0.5%	25	20-QFN	336-1485-5-ND	4.55	3.64	3.03	C8051F530A-IM	C8051F530ADK
8K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16-Ch., 200ksps	1	VREG	±0.5%	25	20-TSSOP	336-1486-5-ND	4.70	3.77	3.14	C8051F530A-IT	C8051F530ADK

NEW! Single/Dual Battery, 0.9 ~ 3.6V, 64kB/32kB, smaRTClock, 10-Bit ADC MCUs

C8051F930x-X8051F92x devices are fully integrated mixed-signal System-in-a Chip MCUs.

Performance Specifications:

- Single/Dual Battery operation with in-chip dc-dc boost converter
- High-speed pipelined 8051-compatible microcontroller core (up to 25MIPS)
- In-system, full-speed, non-intrusive debug interface (on-chip)
- True 10-Bit 300ksps 23-channel single-ended ADC with analog multiplexer
- 6-Bit programmable Current Reference
- Precision programmable 24.5 MHz internal oscillator with spread spectrum technology.
- SMBus/I^{2}C, Enhanced UART and two Enhanced SPI serial interface implemented in hardware
- Programmable Counter/Timer Array (PCA) with three capture/compare modules and Watchdog Timer function
- On-chip Power-On Reset, V_{DD} Monitor and Temperature Sensor

With on-chip Power-on Reset, V_{DD} monitor, Watchdog Timer and clock oscillator, the C8051F93x-C8051F92x devices are truly stand-alone System-on-a-chip solutions. The flash memory can be reprogrammed even in-circuit, providing non-volatile data storage and also allowing field upgrades of the 8051 firmware. User software has complete control of all peripherals and may individually shut down any or all peripherals for power savings.

The on-chip Silicon Laboratories 2-Wire (C2) Development Interface allows non-intrusive (uses no on-chip resources), full speed, in-circuit debugging using the production MCU installed in the final application. This debug logic supports inspection and modification of memory and registers, setting breakpoints, single stepping and run and halt commands. All analog and digital peripherals are fully functional while debugging using C2. The two C2 interface pins can be shared with user functions, allowing in-system debugging without occupying package pins.

Each device is specified for 0.9 ~ 1.8V or 1.8 ~ 3.6V operation over the industrial temperature range (-40 ~ 85°C). The port I/O and RST pins are tolerant or input signals up to 5V. The C8051F930/20 are available in 32pin QFN or LQFP packages and the C8051F931/21 are available in a 24-pin QFN package.

Flash Memory (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	Comp.	Other	Internal Osc.	MIPS (peak)	Package	Digi-Key Part No.	Price Each			Silicon Labs Part No.	Development Kit Part No.
													1	25	100		
64K	4352	24	4	6	UART, EMIF, I^{2}C, 2SPI	10-Bit, 23-Ch., 300ksps	2	smaRTClock; up to 23 touch sense inputs	±2%	25	32-LQFP	336-1466-ND	7.58	6.07	5.06	C8051F930-GQ	C8051F930DK
64K	4352	24	4	6	UART, EMIF, I^{2}C, 2SPI	10-Bit, 23-Ch., 300ksps	2	smaRTClock; up to 23 touch sense inputs	±2%	25	32-QFN	336-1467-ND	6.39	5.12	4.26	C8051F930-GM	C8051F930DK
64K	4352	16	4	6	UART, I^{2}C, 2SPI	10-Bit, 15-Ch., 300ksps	2	smaRTClock; up to 15 touch sense inputs	±2%	25	24-QFN	336-1468-ND	5.72	4.58	3.81	C8051F931-GM	C8051F930DK
32K	4352	24	4	6	UART, EMIF, I^{2}C, 2SPI	10-Bit, 23-Ch., 300ksps	2	smaRTClock; up to 23 touch sense inputs	±2%	25	32-LQFP	336-1469-ND	6.73	5.39	4.49	C8051F920-GQ	C8051F930DK
32K	4352	24	4	6	UART, EMIF I^{2}C, 2SPI	10-Bit, 23-Ch., 300ksps	2	smaRTClock; up to 23 touch sense inputs	±2%	25	32-QFN	336-1470-ND	5.69	4.56	3.80	C8051F920-GM	C8051F930DK
32K	4352	16	4	6	UART, I^{2}C, 2SPI	10-Bit, 15-Ch., 300ksps	2	smaRTClock; up to 15 touch sense inputs	±2%	25	24-QFN	336-1471-ND	5.13	4.11	3.42	C8051F921-GM	C8051F930DK

(Continued)

C8051F High Performance Mixed-Signal MCUs *(Cont.)*

USB Microcontrollers Integrated USB 2.0 Function Controller

The USB Microcontroller family features an on-board universal serial bus (USB) 2.0 function controller with integrated transceiver and on-chip clock recovery. No resistors, crystal, regulator, EEPROM or other external components are required. On-chip digital resources include a pipelined 25 MIPS, 8051 CPU with 16kB Flash and UART, SMBus and SPI serial interfaces. On-chip analog features include a multi-channel 10-bit ADC, voltage reference, oscillator, comparators and a temperature sensor. Available in a 32-pin LQFP or a 28-pin MLP (5x5mm), these devices provide a single-chip solution for embedded USB applications.

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	Comp.	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	1	Price Each 25	100	Silicon Labs Part No.	Development Kit Part No.
64K	5376	40	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	48	48-TQFP	336-1298-ND	11.23	8.99	7.49	C8051F340-GQ	C8051F340DK
64K	5376	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	48	32-LQFP	336-1300-ND	10.89	8.72	7.26	C8051F342-GQ	C8051F340DK
64K	5376	40	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	25	48-TQFP	336-1302-ND	10.89	8.72	7.26	C8051F344-GQ	C8051F343DK
64K	5376	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	25	32-LQFP	336-1304-ND	10.33	8.27	6.89	C8051F346-GQ	C8051F343DK
32K	3328	40	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	48	48-TQFP	336-1299-ND	10.01	8.01	6.68	C8051F341-GQ	C8051F340DK
32K	3328	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	48	32-LQFP	336-1301-ND	9.47	7.58	6.32	C8051F343-GQ	C8051F343DK
32K	3328	40	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	25	48-TQFP	336-1303-ND	9.47	7.58	6.32	C8051F345-GQ	C8051F343DK
32K	3328	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17-Ch., 200ksps	2	±1.5%	25	32-LQFP	336-1305-ND	8.71	6.97	5.81	C8051F347-GQ	C8051F347DK
16K	2304	25	4	5	USB 2.0, UART, SMBus, SPI	10-Bit, 17-Ch. 200ksps	2	±1.5%	25	32-LQFP	336-1259-ND	7.81	6.25	5.21	C8051F320-GQ	C8051F320DK
16K	2304	25	4	5	USB 2.0, UART, SMBus, SPI	10-Bit, 13-Ch. 200ksps	2	±1.5%	25	28-MLP	336-1261-ND	6.66	5.33	4.44	C8051F321-GM	C8051F320DK

General Purpose Microcontrollers Outstanding Value for Comprehensive MCUs

The General Purpose Microcontroller family offers outstanding value and performance for embedded control applications. Each device features a 25MIPS pipelined 8051 CPU with 8kB Flash, UART and SPI serial interfaces, internal oscillator and numerous digital I/O options

On-chip analog features include 32-channel, 8-bit ADC and two comparators.
Development tools are easy to use and come complete with all of the hardware and software needed to design complex electronics systems on a standard Windows PC.

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	Serial Buses	ADC1	Comp.	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	1	Price Each 25	100	Silicon Labs Part No.	Development Kit Part No.
8K	256	22	3	UART, SPI	8-Bit, 32-Ch. 100ksps	2	±20%	25	32-LQFP	336-1009-1-ND	5.03	3.62	2.87	C8051F221R	C8051F226DK
8K	256	22	3	UART, SPI	—	2	±20%	25	32-LQFP	336-1012-1-ND	4.80	3.46	2.74	C8051F231R	C8051F226DK

Small Form Factor Microcontrollers, High-Performance MCU in a Tiny Package

The Small Form Factor family is optimized for space-constrained, low-power, low-cost applications in consumer, industrial, communications and automotive markets. Development is quick and easy due to low-cost, professional development tools and in system debug. **Features: • C8051F311, C8051F300, C8051F302, C8051F31x:** Temperature Sensor **• C8051F330, C8051F332, and C8051T600:** Temperature Sensor and VREF **• C8051F36x:** 16 x 16 MAC and Temperature Sensor

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	DAC	Comp.	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	1	Price Each 25	100	Silicon Labs Part No.	Development Kit Part No.
8K	1280	25	4	5	UART, SPI, SMBus	10-Bit, 17-Ch., 200ksps	—	2	±2%	25	28-MLP	336-1152-ND	4.34	3.68	3.20	C8051F313	C8051F310DK
8K	256	8	3	3	UART, SMBus	—	—	1	±2%	25	11-MLP	336-1044-1-ND	3.56	2.55	2.04	C8051F301R	C8051F300DK
8K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1046-1-ND*	3.37	2.41	1.93	C8051F303R	C8051F300DK
4K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1063-1-ND*	3.01	2.15	1.72	C8051F304R	C8051F300DK
2K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1064-1-ND	2.91	2.08	1.67	C8051F305R	C8051F300DK
RoHS Compliant																	
32K	2368	24	4	6	UART, SPI SMBus	12-Bit, 8-Ch., 200ksps	12-Bit, 2-Ch.	2	±2%	50	32-LQFP	336-1318-ND	8.71	6.97	5.81	C8051F410-GQ	C8051F410DK
32K	2368	20	4	6	UART, SPI SMBus	12-Bit, 8-Ch., 200ksps	12-Bit, 2-Ch.	2	±2%	50	28-QFN	336-1309-ND	7.00	5.60	4.67	C8051F411-GM	C8051F410DK
32K	1K	39	4	3	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	10-Bit, 1-Ch.	2	±2%	100	48-TQFP	336-1407-ND	9.77	7.82	6.51	C8051F360-GQ	C8051F360DK
32K	1K	27	4	3	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	10-Bit, 1-Ch.	2	±2%	100	32-LQFP	336-1408-ND	9.07	7.26	6.05	C8051F361-GQ	C8051F360DK
32K	1K	24	4	3	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	10-Bit, 1-Ch.	2	±2%	100	28-QFN	336-1409-5-ND	7.65	6.12	5.10	C8051F362-GM	C8051F360DK
16K	2368	24	4	6	UART, SPI SMBus	12-Bit, 8-Ch., 200ksps	12-Bit, 2-Ch.	2	±2%	50	32-LQFP	336-1310-ND	7.88	6.30	5.25	C8051F412-GQ	C8051F410DK
16K	2368	20	4	6	UART, SPI SMBus	12-Bit, 8-Ch., 200ksps	12-Bit, 2-Ch.	2	±2%	50	28-QFN	336-1311-ND	6.50	5.21	4.34	C8051F413-GM	C8051F410DK
16K	1280	29	4	5	UART, SMBus, SPI	10-Bit, 21-Ch., 200ksps	—	2	±2%	25	32-LQFP	336-1252-ND	6.41	5.13	4.28	C8051F310-GQ	C8051F310DK
16K	1280	25	4	5	UART, SMBus, SPI	10-Bit, 17-Ch., 200ksps	—	2	±2%	25	28-MLP	336-1254-ND	5.74	4.59	3.83	C8051F311-GM	C8051F310DK
8K	1280	32	3	—	UART, SPI	12-Bit, 32-Ch., 100ksps	—	2	±20%	25	48-TQFP	336-1236-ND	5.94	4.76	3.96	C8051F206-GQ	C8051F206DK
8K	1280	32	3	—	UART, SPI	8-Bit, 32-Ch., 100ksps	—	2	±20%	25	48-TQFP	336-1240-ND	5.18	4.14	3.45	C8051F226-GQ	C8051F226DK
8K	1280	32	3	—	UART, SPI	—	—	2	±20%	25	48-TQFP	336-1244-ND	4.82	3.86	3.21	C8051F236-GQ	C8051F226DK
8K	1280	29	4	5	UART, SMBus, SPI	10-Bit, 21-Ch., 200ksps	—	2	±2%	25	32-LQFP	336-1255-ND	5.00	4.00	3.33	C8051F312-GQ	C8051F310DK
8K	1280	29	4	5	UART, SMBus, SPI	—	—	2	±2%	25	32-LQFP	336-1257-ND	4.21	3.37	2.81	C8051F314-GQ	C8051F310DK
8K	1280	25	4	5	UART, SMBus, SPI	10-Bit, 17-Ch., 200ksps	—	2	±2%	25	28-MLP	336-1256-ND	4.64	3.71	3.09	C8051F313-GM	C8051F310DK
8K	1280	25	4	5	UART, SMBus, SPI	—	—	2	±2%	25	28-MLP	336-1258-ND	3.92	3.14	2.61	C8051F315-GM	C8051F310DK
8K	768	17	4	3	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	10-Bit, 1-Ch.	1	±2%	25	20-MLP	336-1262-ND	4.77	3.82	3.18	C8051F330-GM	C8051F330DK

* For Tape and Reel part number, change 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing.

(Continued)

C8051F High Performance Mixed-Signal MCUs

Small Form Factor Microcontrollers, High-Performance MCU in a Tiny Package *(Cont.)*

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	DAC	Comp.	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	Price Each			Silicon Labs Part No.	Development Kit Part No.
													1	25	100		
8K	768	17	4	3	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	10-Bit, 1-Ch.	1	±2%	25	20-DIP	336-1263-ND	5.22	4.18	3.48	C8051F330-GP	C8051F330DK
8K	768	17	4	3	UART, SMBus, SPI	—	—	1	±2%	25	20-QFN	336-1265-ND	4.28	3.42	2.85	C8051F331-GM	C8051F330DK
8K	256	32	3	—	UART, SPI	8-Bit, 32-Ch., 100ksps	—	2	±20%	25	48-TQFP	336-1238-ND	4.91	3.93	3.27	C8051F220-GQ	C8051F226DK
8K	256	32	3	—	UART, SPI	—	—	2	±20%	25	48-TQFP	336-1242-ND	4.61	3.69	3.08	C8051F230-GQ	C8051F226DK
8K	256	22	3	—	UART, SPI	8-Bit, 32-Ch., 100ksps	—	2	±20%	25	32-LQFP	336-1239-ND	4.37	3.50	2.91	C8051F221-GQ	C8051F226DK
8K	256	22	3	—	UART, SPI	—	—	2	±20%	25	32-LQFP	336-1243-ND	4.16	3.33	2.78	C8051F231-GQ	C8051F226DK
8K	256	8	3	3	UART, SMBus	8-Bit, 8-Ch., 500ksps	—	1	±2%	25	11-MLP	336-1245-ND	3.35	2.69	2.24	C8051F300-GM	C8051F300DK
8K	256	8	3	3	UART, SMBus	—	—	1	±2%	25	11-MLP	336-1247-ND	3.20	2.56	2.13	C8051F301-GM	C8051F300DK
8K	256	8	3	3	UART, SMBus	8-Bit, 8-Ch., 500ksps	—	1	±20%	25	11-MLP	336-1248-ND	3.13	2.51	2.09	C8051F302-GM	C8051F300DK
8K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1249-ND	3.02	2.42	2.01	C8051F303-GM	C8051F300DK
4K	768	17	4	3	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	—	1	±2%	25	20-MLP	336-1266-ND	3.56	2.85	2.37	C8051F332-GM	C8051F330DK
4K	768	17	4	3	UART, SMBus, SPI	—	—	1	±2%	25	20-MLP	336-1267-ND	3.26	2.61	2.18	C8051F333-GM	C8051F330DK
4K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1250-ND	2.68	2.15	1.79	C8051F304-GM	C8051F300DK
2K	768	17	4	3	UART, SPI	10-Bit, 16-Ch., 200ksps	—	1	±2%	25	20-MLP	336-1268-ND	3.02	2.42	2.01	C8051F334-GM	C8051F330DK
2K	768	17	4	3	UART, SMBus, SPI	—	—	1	±2%	25	20-MLP	336-1269-ND	2.70	2.16	1.80	C8051F335-GM	C8051F330DK
2K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1251-ND	2.61	2.09	1.74	C8051F305-GM	C8051F300DK

* For Tape and Reel part number, change 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing.

CAN Interface Microcontrollers — MCUs with Integrated CAN 2.0B Controller

Each CAN MCU features a 25 MIPS pipelined 8051 CPU, an integrated CAN 2.0B controller, 64kB of Flash, 4kB of SRAM, external memory interface and numerous digital I/O options. Dual UARTs, SMBus and SPI serial interfaces and on-chip analog capabilities including ADC, DAC, voltage reference, internal oscillator and temperature sensor make these products an ideal solution for industrial control and automotive applications. **Features:** • Ext. Memory Interface, Temperature Sensor, VREF

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	ADC2	DAC	Comp.	Other	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	Price Each			Silicon Labs Part No.	Development Kit Part No.
															1	25	100		
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	100-TQFP	336-1053-1-ND*	18.86	13.57	10.77	C8051F042R	C8051F040DK
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	100-TQFP	336-1156-ND	8.75	7.66	6.46	C8051F044	C8051F040DK
64K	4352	59	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	100-TQFP	336-1074-1-ND*	19.24	14.81	12.34	C8051F062R	C8051F060DK
64K	4352	24	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1073-1-ND*	20.60	15.85	13.21	C8051F061R	C8051F060DK
64K	4352	24	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1075-1-ND*	18.72	14.41	12.01	C8051F063R	C8051F060DK
RoHS Compliant																			
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	12-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	100-TQFP	336-1204-ND	14.52	11.78	10.21	C8051F040-GQ	C8051F040DK
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	100-TQFP	336-1207-ND	12.47	10.11	8.77	C8051F042-GQ	C8051F040DK
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	100-TQFP	336-1209-ND	10.12	8.21	7.12	C8051F044-GQ	C8051F040DK
64K	4352	59	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	100-TQFP	336-1213-ND	19.98	16.20	14.04	C8051F060-GQ	C8051F060DK
64K	4352	59	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	100-TQFP	336-1216-ND	16.98	13.77	11.94	C8051F062-GQ	C8051F060DK
64K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	12-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	64-TQFP	336-1206-ND	13.97	11.33	9.82	C8051F041-GQ	C8051F040DK
64K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	64-TQFP	336-1208-ND	11.95	9.69	8.40	C8051F043-GQ	C8051F040DK
64K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	64-TQFP	336-1210-ND	9.58	7.77	6.74	C8051F045-GQ	C8051F040DK
64K	4352	24	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1215-ND	18.17	14.73	12.77	C8051F061-GQ	C8051F060DK
64K	4352	24	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1217-ND	16.52	13.40	11.61	C8051F063-GQ	C8051F060DK
32K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	100-TQFP	336-1211-ND	9.51	7.71	6.69	C8051F046-GQ	C8051F040DK
32K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	64-TQFP	336-1212-ND	10.82	8.66	7.22	C8051F047-GQ	C8051F040DK

* For Tape and Reel part number, change 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing.

(Continued)

C8051F High Performance Mixed-Signal MCUs

CAN Interface Microcontrollers — MCUs with Integrated CAN 2.0B Controller *(Cont.)*

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	ADC2	DAC	Comp.	Other	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.	Development Kit Part No.
16KB	768	17	4	3	UART, SMBus, SPI	10-Bit, 16-Ch. 200ksps	—	10-Bit, 1-Ch.	1	—	±2% LFO	25	20-QFN	336-1429-5-ND	5.24	4.20	3.50	C8051F336-GM	C8051F336DK
16KB	768	17	4	3	UART, SMBus, SPI	—	—	—	1	—	±2% LFO	25	20-QFN	336-1428-5-ND	4.46	3.57	2.97	C8051F337-GM	C8051F336DK
16KB	768	21	4	3	UART, SMBus, SPI	10-Bit, 16-Ch. 200ksps	—	10-Bit, 1-Ch.	1	—	±2% LFO	25	24-QFN	336-1427-5-ND	5.33	4.27	3.56	C8051F338-GM	C8051F336DK
16KB	768	21	4	3	UART, SMBus, SPI	—	—	—	1	—	±2% LFO	25	24-QFN	336-1426-5-ND	4.50	3.60	3.00	C8051F339-GM	C8051F336DK

* For Tape and Reel part number, change 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing.

Automotive

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC	Comp.	Other	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.	Development Kit Part No.
8K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16-Ch. 200ksps	1	VREG. -40°C ~ 125°C	±0.5%	25	20-QFN 20-TSSOP	336-1342-ND 336-1343-ND	4.55 4.70	3.64 3.77	3.03 3.14	C8051F530-IM C8051F530-IT	C8051F530DK
8K	256	16	3	3	SPI, UART	12-Bit, 16-Ch. 200ksps	1	VREG. -40°C ~ 125°C	±0.5%	25	20-QFN 20-TSSOP	336-1392-ND 336-1393-ND	4.48 4.59	3.59 3.68	2.99 3.06	C8051F531-IM C8051F531-IT	C8051F530DK
8K	256	6	3	3	LIN 2.0, SPI, UART	12-Bit, 6-Ch. 200ksps	1	VREG. -40°C ~ 125°C	±0.5%	25	10-QFN	336-1341-ND	3.78	3.03	2.52	C8051F520-IM	C8051F530DK
8K	256	6	3	3	SPI, UART	12-Bit, 6-Ch. 200ksps	1	VREG. -40°C ~ 125°C	±0.5%	25	10-QFN	336-1387-ND	3.58	2.87	2.39	C8051F521-IM	C8051F530DK
4K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16-Ch. 200ksps	1	VREG. -40°C ~ 125°C	±0.5%	25	20-QFN 20-TSSOP	336-1394-ND 336-1395-ND	4.21 4.46	3.37 3.57	2.81 2.97	C8051F533-IM C8051F533-IT	C8051F530DK
4K	256	16	3	3	SPI, UART	12-Bit, 16-Ch. 200ksps	1	VREG. -40°C ~ 125°C	±0.5%	25	20-QFN 20-TSSOP	336-1396-ND 336-1397-ND	4.01 4.25	3.21 3.41	2.67 2.84	C8051F534-IM C8051F534-IT	C8051F530DK
4K	256	6	3	3	LIN 2.0, SPI, UART	12-Bit, 6-Ch. 200ksps	1	VREG. -40°C ~ 125°C	±0.5%	25	10-QFN	336-1388-ND	3.31	2.65	2.21	C8051F523-IM	C8051F530DK
4K	256	6	3	3	SPI, UART	12-Bit, 6-Ch. 200ksps	1	VREG. -40°C ~ 125°C	±0.5%	25	10-QFN	336-1389-ND	3.13	2.51	2.09	C8051F524-IM	C8051F530DK
2K	256	16	3	3	LIN 2.0, SPI, UART	12-Bit, 16-Ch. 200ksps	1	VREG. -40°C ~ 125°C	±0.5%	25	20-QFN 20-TSSOP	336-1398-ND 336-1399-ND	3.83 4.05	3.06 3.24	2.55 2.70	C8051F536-IM C8051F536-IT	C8051F530DK
2K	256	16	3	3	SPI, UART	12-Bit, 16-Ch. 200ksps	1	VREG. -40°C ~ 125°C	±0.5%	25	20-QFN 20-TSSOP	336-1400-ND 336-1401-ND	3.62 3.85	2.90 3.08	2.42 2.57	C8051F537-IM C8051F537-IT	C8051F530DK
2K	256	6	3	3	LIN 2.0, SPI, UART	12-Bit, 6-Ch. 200ksps	1	VREG. -40°C ~ 125°C	±0.5%	25	10-QFN	336-1390-ND	2.93	2.34	1.95	C8051F526-IM	C8051F530DK
2K	256	6	3	3	SPI, UART	12-Bit, 6-Ch. 200ksps	1	VREG. -40°C ~ 125°C	±0.5%	25	10-QFN	336-1391-ND	2.75	2.20	1.83	C8051F527-IM	C8051F530DK

C8051T High Performance Mixed-Signal MCUs OTP

C8051Tx devices are fully integrated mixed-signal System-on-a-Chip MCUs.

Performance Specifications:

- High-speed pipelined 8051-compatible microcontroller core (up to 25 MIPS)
- In-system, full-speed, non-intrusive debug interface (on-chip)
- C8051F31xISP Flash devices are available for quick in-system code development
- Precision calibrated 24.5MHz internal oscillator
- 16kB (C8051T610/1/6/7), 8kB (C8051T612/3/4/5, C8051T630/1 and C8051T600), 4kB (C8051T632/3) and 2kB (C8051T634/5) byte-programmable EPROM
- SMBus/I^2C, Enhanced UART and SPI serial interfaces implemented in hardware
- Four general-purpose 16-bit timers
- Programmable Counter/Timer Array (PCA) with five capture/compare modules and Watchdog Timer function
- On-chip Power-On Reset, V_{DD} Monitor and Temperature Sensor

With on-chip Power-On Reset, V_{DD} monitor, Watchdog Timer and clock oscillator, the C8051T61x devices are truly stand-alone System-on-a-Chip solutions. User software has complete control of all peripherals and may individually shut down any or all peripherals for power savings.

Code written for the C8051T61x family of processors will run on the C8051F31x family of Mixed-signal ISP Flash Microcontrollers, providing a quick, cost effective way to develop code without requiring special emulator circuitry. The C8051T61x processors include Silicon Laboratories' 2-Wire C2 Debug and Programming interface, which allows non-intrusive (uses no on-chip resources), full speed, in-circuit debugging using the production MCU installed in the final application. This debug logic supports inspection of the memory, viewing and modification of special function registers, setting breakpoints, single stepping, run and halt commands. All analog and digital peripherals are fully functional while debugging using C2. The two C2 interface pins can be shared with user functions, allowing in-system debugging without occupying package pins.

Each device is specified for 1.8 ~ 3.6 V operation over the industrial temperature range (C8051T61x: -45 ~ 85°C; C8051T63x/60x: -40°C ~ 85°C). An internal LDO is used to supply the processor core voltage at 1.8V. The Port I/O and RST pins are tolerant of input signals up to 5V. The C8051T61x are available in 32-pin LQFP, 28-pin QFN and 24-pin QFN packages.

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	ADC2	DAC	Comp.	Other	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.	Development Kit Part No.
16K	1280	29	4	5	UART SMBus	10-Bit, 8-Ch., 500ksps	—	—	2	—	±2%	25	32-LQFP	336-1435-ND	4.97	3.98	3.32	C8051T610-GQ	C8051F610DK
16K	1280	25	4	5	UART SMBus	10-Bit, 8-Ch., 500ksps	—	—	2	—	±2%	25	28-QFN	336-1436-5-ND	3.92	3.14	2.61	C8051T611-GM	C8051F610DK
16K	1280	21	4	5	UART SMBus	10-Bit, 8-Ch., 500ksps	—	—	2	—	±2%	25	24-QFN	336-1437-5-ND	3.13	2.51	2.09	C8051T616-GM	C8051F610DK
16K	1280	21	4	5	UART SMBus	—	—	—	2	—	±2%	25	24-QFN	336-1438-5-ND	2.77	2.22	1.85	C8051T617-GM	C8051F610DK
8K	1280	29	4	5	UART SMBus	10-Bit, 8-Ch., 500ksps	—	—	2	—	±2%	25	32-LQFP	336-1439-ND	3.87	3.10	2.58	C8051T612-GQ	C8051F610DK
8K	1280	25	4	5	UART SMBus	10-Bit, 8-Ch., 500ksps	—	—	2	—	±2%	25	28-QFN	336-1440-5-ND	3.17	2.54	2.12	C8051T613-GM	C8051F610DK
8K	1280	29	4	5	UART SMBus	—	—	—	2	—	±2%	25	32-LQFP	336-1441-ND	3.42	2.74	2.28	C8051T614-GQ	C8051F610DK
8K	1280	25	4	5	UART SMBus	—	—	—	2	—	±2%	25	28-QFN	336-1442-5-ND	2.81	2.25	1.88	C8051T615-GM	C8051F610DK
8K	768	17	4	3	UART, SPI™, I^2C	10-Bit, 16-Ch., 500ksps	—	10-Bit, 1-Ch.	1	VREG, LFO	±2%	25	20-QFN	336-1458-5-ND ***NEW!***	2.52	2.02	1.68	C8051T630-GM	C8051T630DK
8K	768	17	4	3	UART, SPI, I^2C	—	—	—	1	VREG, LFO	±2%	25	20-QFN	336-1459-5-ND ***NEW!***	2.41	1.93	1.61	C8051T631-GM	C8051T630DK
8K	256	8	3	3	UART, I^2C	10-Bit, 8-Ch., 500ksps	—	—	1	VREG	±2%	25	11-QFN	336-1402-5-ND	1.49	1.19	.99	C8051T600-GM	C8051T600DK
8K	256	8	3	3	UART I^2C	10-Bit, 8-Ch., 500ksps	—	—	1	VREG	±2%	25	14-SOIC	336-1403-5-ND	1.49	1.19	.99	C8051T600-GS	C8051T600DK
4K	768	17	4	3	UART, SPI, I^2C	10-Bit, 16-Ch., 500ksps	—	10-Bit, 1-Ch.	1	VREG, LFO	±2%	25	20-QFN	336-1460-5-ND ***NEW!***	2.00	1.61	1.34	C8051T632-GM	C8051T630DK
4K	768	17	4	3	UART, SPI, I^2C	—	—	—	1	VREG, LFO	±2%	25	20-QFN	336-1461-5-ND ***NEW!***	1.94	1.55	1.29	C8051T633-GM	C8051T630DK
2K	768	17	4	3	UART, SPI, I^2C	10-Bit, 16-Ch., 500ksps	—	10-Bit, 1-Ch.	1	VREG, LFO	±2%	25	20-QFN	336-1462-5-ND ***NEW!***	1.71	1.37	1.14	C8051T634-GM	C8051T630DK
2K	768	17	4	3	UART, SPI, I^2C	—	—	—	1	VREG, LFO	±2%	25	20-QFN	336-1463-5-ND ***NEW!***	1.58	1.26	1.05	C8051T635-GM	C8051T630DK

SILICON LABS

Microcontroller Development Tools

Development Kits: • Complete development/prototyping system • Prototyping/demonstration board • In-system Flash programming • In-circuit debugging • MCU configuration wizard **IDE:** • Source code editor, project manager • Flash programmer • Supports full-speed, non-intrusive in-circuit debug logic • Real-time breakpoints, source-level debug • Conditional memory watch points • Memory and register inspect/modify • Single-step and animated execution modes • Variable watch window

Digi-Key Part No.	Price Each	Silicon Labs Part No.
336-1188-ND	69.00	C8051F005DK
336-1200-ND	79.00	C8051F020DK
336-1205-ND	179.00	C8051F040DK
336-1214-ND	179.00	C8051F060DK
336-1219-ND	99.00	C8051F064EK

Digi-Key Part No.	Price Each	Silicon Labs Part No.
336-1224-ND	99.00	C8051F120DK
336-1237-ND	69.00	C8051F206DK
336-1241-ND	69.00	C8051F226DK
336-1246-ND	69.00	C8051F300DK
336-1253-ND	69.00	C8051F310DK
336-1260-ND	99.00	C8051F320DK
336-1306-ND	99.00	C8051F326DK
336-1264-ND	69.00	C8051F330DK
336-1307-ND	99.00	C8051F340DK
336-1083-ND	99.00	C8051F350DK
336-1410-ND◆	99.00	C8051F360DK
336-1412-ND◆	50.00	C8051F360-TB
336-1314-ND	99.00	C8051F410DK

Digi-Key Part No.	Price Each	Silicon Labs Part No.
336-1317-ND	29.00	C8051F411EK
336-1344-ND	99.00	C8051F530DK
336-1488-ND◆ ***NEW!***	99.00	C8051F530ADK
336-1489-ND◆ ***NEW!***	35.00	C8051F530A-TB
336-1404-ND	99.00	C8051T600DK
336-1405-ND	19.00	C8051T600SDB
336-1406-ND	29.00	C8051T600QDB
336-1430-ND◆	99.00	C8051F336DK
336-1443-ND◆	129.00	C8051T610DK
336-1464-ND◆ ***NEW!***	148.75	C8051T630DK
336-1465-ND◆ ***NEW!***	43.75	C8051T630DB20
336-1473-ND◆ ***NEW!***	99.00	C8051F930DK
336-1472-ND◆ ***NEW!***	51.25	C8051F930-TB

Description	Digi-Key Part No.	Price Each	Silicon Labs Part No.
USB Debug Adapter	336-1182-ND	35.00	DEBUGADPTR1-USB
ToolStick User's Guide	336-1278-ND	11.63	TOOLSTICK-EK
Wireless Voice Transceiver Reference Design Kit	336-1294-ND	222.00	WL-TRANSCVR-RD
Voice Recorder Reference Design Kit	336-1315-ND	49.00	VOICE-RECORD-RD
ToolStick Base Adapter	336-1345-ND	18.63	TOOLSTICKBA
ToolStick C8051F320/321 Daughter Card	336-1480-ND◆ ***NEW!***	10.50	TOOLSTICK321DC
ToolStick C8051F326/327 Daughter Card	336-1481-ND◆ ***NEW!***	10.50	TOOLSTICK327DC
ToolStick C8051F330 Daughter Card	336-1346-ND	10.50	TOOLSTICK330DC
ToolStick C8051F34x Daughter Card	336-1482-ND◆ ***NEW!***	10.50	TOOLSTICK342DC
ToolStick C8051F362 Daughter Card	336-1411-ND	10.50	TOOLSTICK360DC
ToolStick C8051F336 Daughter Card	336-1431-ND◆	10.50	TOOLSTICK336DC
ToolStick C8051F530 Daughter Card	336-1487-ND◆ ***NEW!***	10.50	TOOLSTICK530ADC
ToolStick C8051F931 Daughter Card	336-1474-ND◆ ***NEW!***	18.63	TOOLSTICK931DC
University Starter Kit and Book	336-1432-ND	55.00	MCUNIVERSITYKIT
University ToolStick Starter Kit	336-1433-ND◆	40.00	TOOLSTICKUNISK
University ToolStick Daughter Card	336-1434-ND	25.00	TOOLSTICKUNIDC
ToolStick Debug Adapter	336-1347-ND	9.50	TOOLSTICKDA
ToolStick Starter Kit	336-1348-ND	26.56	TOOLSTICKSK
ToolStick LIN Daughter Card	336-1383-ND	10.50	TOOLSTICKLINDC
ToolStick Adapter Program F300	336-1444-ND	69.00	TOOLSTICK300PP

Description	Digi-Key Part No.	Price Each	Silicon Labs Part No.
ToolStick Adapter Program F310	336-1445-ND	69.00	TOOLSTICK310PP
ToolStick Adapter Program F311	336-1446-ND	69.00	TOOLSTICK311PP
ToolStick Adapter Program F316	336-1447-ND	69.00	TOOLSTICK316PP
ToolStick Adapter Program F320	336-1448-ND	69.00	TOOLSTICK320PP
ToolStick Adapter Program F321	336-1449-ND	69.00	TOOLSTICK321PP
ToolStick Adapter Program F326	336-1450-ND	69.00	TOOLSTICK326PP
ToolStick Adapter Program F330	336-1451-ND	69.00	TOOLSTICK330PP
ToolStick Adapter Program F340	336-1452-ND	69.00	TOOLSTICK340PP
ToolStick Adapter Program F360/363	336-1483-ND◆ ***NEW!***	68.75	TOOLSTICK360PP
ToolStick Adapter Program F410	336-1453-ND	69.00	TOOLSTICK410PP
ToolStick Adapter Program F411	336-1454-ND	69.00	TOOLSTICK411PP
ToolStick Adapter Program F520	336-1455-ND	69.00	TOOLSTICK520PP
ToolStick Adapter Program F530MPP	336-1456-ND	69.00	TOOLSTICK530MPP
ToolStick Adapter Program F530TPP	336-1457-ND	69.00	TOOLSTICK530TPP
ToolStick Programming Platform F930	336-1477-ND◆ ***NEW!***	68.75	TOOLSTICK930QPP
ToolStick Programming Platform F930	336-1478-ND◆ ***NEW!***	68.75	TOOLSTICK930MPP
ToolStick Programming Platform F931	336-1479-ND◆ ***NEW!***	68.75	TOOLSTICK931PP
Current Sensor Evaluation Board 10A	336-1425-ND◆	19.95	SI85XX-EVB
CAP TOUCH SENSE Start Kit	336-1475-ND◆ ***NEW!***	36.88	CAPTOUCHSENSESK
CAP TOUCH SENSE Daughter Card	336-1476-ND◆ ***NEW!***	20.00	CAPTOUCHSENSEDC

◆ ***RoHS Compliant***

Microcontroller Reference Designs

Description	Digi-Key Part No.	Price Each	Silicon Labs Part No.
Digital Compass Reference Design	336-1165-ND	72.00	F350-COMPASS-RD
Stepper Motor Reference Design	336-1319-ND	119.00	STEPPER-MTR-RD
USB Mass Storage Reference Design	336-1320-ND	99.00	USB-MSD-RD
Temperature Compensated RTC Reference Design	336-1351-ND	99.00	TEMPCOMPRTC-RD
Multi-Phase POL Reference Design	336-1323-ND	199.00	MULTIPHSPOL-RD
PoE with Voice Transmission Reference Design	336-1326-ND	69.00	POE-VOICE-RD
Sensorless BLDC Motor Reference Design	336-1329-ND	119.00	SLBLDC-MTR-RD

SPI to I^2C Bridge

A Single-chip SPI to I^2C bridge and GPIO port expander that allows a SPI master to communicate as an I^2C master device.

Features:
• 4-wire SPI bus operates at frequencies up to 1MHz • Fully functional I^2C master transmit and receive operation • I^2C data at frequencies configurable up to 400kHz • 255 byte data receive and transmit buffers • Internal oscillator • 2.4 ~ 3.6 volt operation • Active LOW interrupt output • 5 volt tolerant I/O pins • 8 general purpose I/O pins

Description	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
SPI-I^2C Bridge Device and GPIO Port Expander	336-1324-ND◆	3.20	2.56	2.13	CP2120-GM
Evaluation Kit for CP2120	336-1325-ND	39.00	—	—	CP2120EK

◆ ***RoHS Compliant***

AC Current Sensors

The Si85xx products are undirectional AC current sensors available in full-scale ranges of 5,10 and 20A. Si85xx products are ideal upgrades for older current-sensing technologies offering size, performance and cost advantages over current transformers, Hall effect devices, DCR circuits and other approaches. The Si 85xx are extremely low loss, adding less than 1.3 mΩ of series resistance and less than 2 nH series inductance in the sensing path at 25°C. Current-sensing terminals are isolated from the other package pins to a maximum voltage of 1000 VDC.

Features: • Single-chip AC current sensor/conditioner • Leading-edge noise suppression eliminates need for leading-edge blanking • "Ping-Pong" output version allows one Si85xx to replace low current transformers in full-bridge applications • FAULT output helps safeguard operation • 1000 VDC isolation • Accurate to ±5% of measurement • Large 2 Vpp output pins signal at full scale • High-side or low-side current sensing • -40 ~ 125°C operating range (Si85x4/5/6) • Low cost • 12QFN package **Applications:** • Power supplies • Motor controls • Lighting equipment • Industrial equipment

Description	Out-Put Mode	Current (A)	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
IC AC Current Sensor	Single	5	336-1413-5-ND	1.53	1.09	.84	SI8501-B-GM
IC AC Current Sensor	Single	10	336-1414-5-ND	1.61	1.15	.88	SI8502-B-GM
IC AC Current Sensor	Single	20	336-1415-5-ND	1.71	1.22	.94	SI8503-B-GM
IC AC Current Sensor	Single	5	336-1416-5-ND	1.61	1.15	.88	SI8504-B-IM
IC AC Current Sensor	Single	10	336-1417-5-ND	1.69	1.20	.93	SI8505-B-IM
IC AC Current Sensor	Single	20	336-1418-5-ND	1.80	1.28	.99	SI8506-B-IM
IC AC Current Sensor	Dual	5	336-1419-5-ND	2.40	1.72	1.32	SI8511-B-GM
IC AC Current Sensor	Dual	10	336-1420-5-ND	2.52	1.80	1.39	SI8512-B-GM
IC AC Current Sensor	Dual	20	336-1421-5-ND	2.69	1.92	1.48	SI8513-B-GM
IC AC Current Sensor	Dual	5	336-1422-5-ND	2.52	1.80	1.39	SI8514-B-IM
IC AC Current Sensor	Dual	10	336-1423-5-ND	2.65	1.89	1.46	SI8515-B-I
IC AC Current Sensor	Dual	20	336-1424-5-ND	2.83	2.02	1.55	SI8516-BIM

USB to UART Bridge

The CP210x is a single-chip USB to UART bridge that converts data traffic between USB and UART formats. The chip includes a complete USB 2.0 full-speed function controller, bridge control logic and a UART interface with transmit/receive buffers and modem handshake signals. The device also features on-board EEPROM, a voltage regulator, a USB transceiver and an integrated internal oscillator, eliminating external components generally required in USB applications. System development is further simplified by the CP210xEK evaluation kit, which includes a complete USB to RS-232 evaluation board and royalty-free device drivers for PC and Macintosh platforms.

EEPROM (bytes)	RAM (bytes)	Digital Port I/O Pins	Serial Buses	Internal Osc.	Other	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.
1024	1kB	—	UART to USB Bridge	Yes	Voltage Regulator host I/O	28-QFN	336-1161-ND	29.00	CP2102EK
1024	1kB	4	UART to USB Bridge	Yes	Voltage Regulator RS485, Split V_{DDIO}	28-QFN	336-1163-ND	29.00	CP2103EK

USB 2.0 (Mbps)	EEPROM	Clock	UART Baud Rates	RX/TX Buffer	Package	Digi-Key Part No.	Price Each 1	25
12	512B	Internal	300bps to 921.6kbps	512B	28-MLP (5mm x 5mm)	336-1162-ND◆	5.00	4.00
12	1024B	Internal	300bps to 921.6kbps	640B	28-MLP (5mm x 5mm)	336-1160-ND◆	3.98	3.19
12	1024B	Internal	300bps to 1Mbits	576B / 640B	28-QFN (5mm x 5mm)	336-1164-ND◆	5.36	4.29

◆ ***RoHS Compliant***

Ethernet Controllers

The CP220x is a single-chip Ethernet controller containing an integrated IEEE 802.3-compliant Media Access Controller (MAC), a 10 Base-T Physical Layer (PHY), and 8 kB of non-volatile Flash memory available in either a 28-pin QFN (5 x 5mm), or 48-pin TQFP (9 x 9mm) package. The on-chip Flash memory may be used to store user constants, web server content, or can be used as general purpose nonvolatile memory. The Flash is factory pre-programmed with a unique 48-bit MAC address stored in the last six memory locations. Having the unique MAC address stored in the CP220x often removes the necessary serialization step from the product manufacturing process of most embedded systems.

Flash (kB)	Parallel Host Interface	Parallel Host Interface Speed	Auto-Negotiation	Pre-Programmed MAC Address	RAM Size	LEDs	Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	Silicon Labs Part No.	Development Kit Part No.
8	8-bit Non-Multiplexed EMIF	30 Mbps	Yes	Yes	2 kB TX and 4 kB RX Buffer	Separate Link and Activity	-40°C ~ 85°C	48-TQFP (9mm x 9mm)	336-1312-ND◆	8.44	6.75	CP2200-GQ	ETHERNETDK
8	8-bit Multiplexed EMIF	25 Mbps	Yes	Yes	2 kB TX and 4 kB RX Buffer	Combined Link and Activity	-40°C ~ 85°C	28-QFN (5mm x 5mm)	336-1313-ND◆	7.16	5.73	CP2201-GM	ETHERNETDK
Evaluation Kit for CP2201 Ethernet Controller									336-1316-ND	30.00	—	CP2201EK	—

◆ ***RoHS Compliant***

Wireline Products

ISOmodem® Embedded Modems

Silicon Laboratories' embedded modem solutions are most feature rich, compact and flexible 2400 baud modems on the market. Available in two 16-pin SOIC packages, the Si2401 and Si2400 embedded modem solutions eliminate the need for a separate DSP data pump, modem controller, codec, isolation transformer, relay, opto-isolators and 2-4 wire hybrid.

Features: • Simple AT command UART interface • Globally compliant line interface • Line-in-use and parallel phone intrusion detection • Caller ID detection and decode

Description	Maximum Data Rate	Voice Codec	Package	System-Side Digi-Key Part No.	Price Each 1	Price Each 25	Silicon Labs Part No.	Line-Side Digi-Key Part No.	Price Each 1	Price Each 25	Silicon Labs Part No.
V.22bis Modem, Chipset	2400 bps	No	16-SOIC	336-1095-ND◆	25.02	24.11	SI2401-FS	—	—	—	—
V.22bis Modem, Chipset	2400 bps	Yes	16-SOIC	336-1093-ND	28.14	26.36	SI2400-KS	336-1094-ND	7.63	7.22	SI3015-KS

Description	Digi-Key Part No.	Price Each	Silicon Labs Part No.
Evaluation Board for the SI2400 with a UART Interface	336-1166-ND	150.00	SI2400URT-EVB
Evaluation Board for the SI2401 with a UART Interface	336-1167-ND	150.00	SI2401FS10-EVB
DTMF Decoder Kit	336-1283-ND	149.00	DTMFDECODER-RD
Embedded Ethernet Development Kit	336-1284-ND	119.00	ETHERNETDK
Embedded Modem Development Kit	336-1285-ND	129.00	MODEMDK

◆ *RoHS Compliant*

ProSLIC®

RoHS COMPLIANT

Subscriber line interface circuit (SLIC), codec and battery generation functionality. Combined with Silicon Laboratories' Si3201 linefeed integrated circuit, the Si3210 packs maximum performance and flexibility into a 1.5 inch² footprint, making it the smallest single-channel telephony interface available. The integrated battery supply continuously adapts its output voltage to minimize power and enables the entire solution to be powered from a single 3.3V or 5V supply. Software configurable features include 5 REN internal ringing up to 90 VPK, DTMF generation and decoding and a comprehensive set of telephony signaling capabilities for global operation with only one hardware solution. The Si3230 provides the same performance of the Si3201 without the integrated codec.

Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Silicon Labs Part No.
Single Channel SLIC Codec	336-1287-5-ND	8.10	6.84	5.51	SI3215-B-FM

Clock and Data Recovery ICs

Features • Multi-rate operation: OC-3/12/48. STM-1/4/16, GbE and 2.7 Gbps • Low jitter generation; low power operation • DSPLL Technology eliminates external loop filter components

Description	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Silicon Labs Part No.	Evaluation Board Digi-Key Part No.	Price Each	Silicon Labs Part No.
OC-12/3, STM-4/1 SONET/SDH, 2.5V	20-MLP	336-1120-ND	24.69	24.03	SI5010-BM	—	—	—
OC-12/3, STM-4/1 SONET/SDH, with Limiting Amp, 3.3V	28-MLP	336-1277-ND◆	26.29	24.99	SI5013-D-GM	—	—	—
OC-48/12/3, STM-16/4/1 SONET/SDH, GbE, 2.7 Gbps, 2.5V	20-MLP	336-1128-ND	78.45	69.39	SI5020-BM	336-1129-ND	500.00	SI5020-EVB

◆ *RoHS Compliant*

SiPHY® High-Speed Transceivers

Features: • Integrated limited amplifier, CDR, CMU, and MUX/DEMUX • Low jitter generation; <2.0 mUlrms (typ OC-48) • Jitter attenuating CMU eliminates the external clean-up PLL

Description	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Silicon Labs Part No
OC-48, STM-16 SONET/SDH Transceiver, 1:16 Deserializer and 16:1 Serializer	195-CBGA	336-1135-ND	196.46	174.22	SI5100-F-BC
OC-48, STM-16 SONET/SDH Transceiver, 1:4 Deserializer and 4:1 Serializer	99-CBGA	336-1181-ND	105.45	85.50	SI5110-G-BC
OC-48, STM-16 SONET/SDH Transceiver	195-CBGA	336-1308-ND	105.45	85.50	SI5100-G-BC

Voice CODEC

Features: • Microphone Amplifier • Input Mixer • Headphone Driver • Handset Hybrid • Wide dynamic range in a small footprint • Minimizes external components

Description	Package	Digi-Key Part No.	Price Each	Silicon Labs Part No.
Voice CODEC	16-SOIC	336-1382-ND	2.61	SI3000-C-FS

Power over Ethernet

RoHS COMPLIANT

The Si3400 integrates an IEEE 802.3af compliant interface and complete power management solution for a Power over Ethernet (PoE) powered device (PD) application. The Si3400 converts the high voltage supplied over a 10/100/1000BASE-T Ethernet cable into a regulated low voltage output supply. For applications that require more power than the 11W (max) capability of the Si3400, the Si3401 provides the same feature set as the Si3400 but adds an increased hot swap switch current limit of 470mA (min.), versus the Si3400's 350mA (min.). The Si3401's higher current limit enables it to support applications in the range of 14 to 16W.

Description	Current Limit (mA)	Output Power (Maximum)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Silicon Labs Part No.
Integrated PD I/F with PWM Controller	350	11W	20-QFN	336-1385-ND	3.52	3.49	2.39	SI3400-E1-GM
	470	14 ~ 16W	20-QFN	336-1384-ND	4.28	3.99	2.47	SI3401-E1-GM

Digital Power Solutions

RoHS COMPLIANT

Digital Isolators

Features: • Lowest power consumption: 12mA per channel at 100Mbps • Highest integration: 1/3 the size of opto-coupler solutions • Fastest throughput: 150 Mbps maximum • Pin compatible with existing industry solutions • Temperature: -40°C ~ 125°C

Number of Inputs VDD1 Side	Number of Inputs VDD2 Side	Maximum Data Rate (Mbps)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Silicon Labs Part No.
1	0	10	8-SOIC	336-1355-ND	2.77	2.22	1.85	SI8410-B-IS
		150		336-1356-ND	3.89	3.12	2.60	SI8410-C-IS
2	0	10	8-SOIC	336-1358-ND	2.77	2.22	1.85	SI8420-B-IS
		150		336-1359-ND	3.96	3.17	2.64	SI8420-C-IS

(Continued)

Digital Power Solutions

Digital Isolators *(Cont.)*

Number of Inputs VDD1 Side	Number of Inputs VDD2 Side	Maximum Data Rate (Mbps)	Package	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
1	1	1	8-SOIC	336-1360-ND	1.91	1.53	1.28	SI8421-A-IS
3	0	1	16-SOIC	336-1363-ND	2.75	2.20	1.83	SI8430-A-IS
		10		336-1364-ND	4.12	3.30	2.75	SI8430-B-IS
		150		336-1365-ND	6.46	5.17	4.31	SI8430-C-IS
2	1	1	16-SOIC	336-1366-ND	2.75	2.20	1.83	SI8431-A-IS
		10		336-1367-ND	4.12	3.30	2.75	SI8431-B-IS
		150		336-1368-ND	6.46	5.17	4.31	SI8431-C-IS
3	0	10	16-SOIC	336-1327-ND	4.12	3.30	2.75	SI8435-B-IS
2	2	10	16-SOIC	336-1328-ND	4.95	3.96	3.30	SI8445-B-IS
4	—	1	16-SOIC	336-1369-ND	3.42	2.74	2.28	SI8440-A-IS
		10		336-1370-ND	4.95	3.96	3.30	SI8440-B-IS
		150		336-1371-ND	7.09	5.67	4.73	SI8440-C-IS
3	1	1	16-SOIC	336-1372-ND	3.42	2.74	2.28	SI8441-A-IS
		10		336-1373-ND	4.95	3.96	3.30	SI8441-B-IS
		150		336-1374-ND	7.09	5.67	4.73	SI8441-C-IS
2	2	1	16-SOIC	336-1375-ND	3.42	2.74	2.28	SI8442-A-IS
		10		336-1376-ND	4.95	3.96	3.30	SI8442-B-IS
		150		336-1377-ND	7.09	5.67	4.73	SI8442-C-IS

Timing Products

Precision Clock ICs

Features: • Jitter generation less than .3psRMS (typical OC-192) • Forward and reverse FEC clock scaling • Selectable loop filter bandwidths

Description	Package	Digi-Key Part No.	Price Each 1	25	Silicon Labs Part No.	Evaluation Board Digi-Key Part No.	Price Each	Silicon Labs Part No.
Precision Clock Multiplier/Regenerator, 155MHz, 622MHz	20-MLP	336-1139-ND	19.63	17.41	SI5310-BM	336-1140-ND	350.00	SI5310-EVB
Precision Clock Multiplier/Regenerator	20-MLP	336-1292-5-ND◆	19.63	17.41	SI5310-GM	336-1140-ND	350.00	SI5310-EVB
SONET/SDH Clock Multiplier/Jitter Attenuator, 19MHz ~ 2.5GHz Output, G.709 FEC and 66/64 Scaling	63-CBGA	336-1274-ND◆	89.15	75.93	SI5321-G-BC	336-1144-ND	350.00	SI5321-EVB
SONET/SDH Clock Multiplier/Jitter Attenuator, Auto Hitless Switching, Four Outputs at 19 MHz, 155 MHz or 622 MHz	99-CBGA	336-1280-ND	106.97	91.11	SI5364-G-BC	—	—	—

◆ ***RoHS Compliant***

COPELAND
COMMUNICATIONS, INC.

Modems and Socket Radio

The **World Modem II**™ devices allow rapid implementation of a modem interface into numerous applications. **Features:** • Socket Modem™ compatible • 3.3V operation • Compliant with global standards • Caller ID, Call progress, and Fast Connect • Small footprint 1.045" x 2.54" • Standard and extended AT command set. The **World Modem**™ **NET** series modems provide a socket modem interface along with a simple internet interface with the AT Command set. **Features:** • Socket Modem Compatible • Compliant with global standards • Up to 10 simultaneous TCP and UDP sockets and up to 2 server sockets. The **World Modem Secure**™ devices support SIA and other security protocols and has programmable GPIO. **Features:** • Socket Modem Compatible • Compliant with global standards • Caller ID, Call progress, and Fast Connect. • Small footprint 1.045" x 2.54" • Standard and Extended AT Command set. The **Socket Radio**™ allows rapid implementation of wireless modem capability to any application with data rates up to 33.6Kbaud. **Features:** • Socket Modem compatible • 200' (indoor) range • 900MHz band • FCC 15.249 compliant • AT command set • Small footprint 1.045" x 2.54" • MMCX connector (CB Version) • Integrated antenna (CA Version)

Interface	Description	Voltage (V)	Digi-Key Part No.	Price Each 1	50	Copeland Part No.
World Modem II						
V.22bis, V.22, V.23	Serial Modem, 2400baud	3.3	539-1000-ND	30.71	26.62	CC-24K2-CS
V90, V.34, V.32bis	Serial Modem, 56kbaud	3.3	539-1001-ND	42.12	36.51	CC-56K2-CS
V90, V.34, V.32bis	Serial Modem, 5V Compatible, 56kbaud	5.0	539-1006-ND	44.10	38.22	CC-56K2-CS5
V.92, V.90, V.34, V.32bis	Serial Modem, 5V Compatible, 56kbaud	5.0	539-1007-ND	49.19	42.63	CC-92K2-CS5
V.92, V.90, V.34, V.32bis	Serial Modem, 56kbaud	3.3	539-1008-ND	47.21	40.92	CC-92K2-CS
World Modem NET — RoHS Compliant						
V.92, V.42, V.42bis	Serial Modem 2400baud Internet-capable	5.0	539-1011-ND	80.61	69.87	CC-2404K2N-CS5
V.92, V.42, V.42bis	Serial Modem 56kbaud Internet-capable	5.0	539-1012-ND	87.06	75.46	CC-56K2N-CS5
V.92, V.42, V.42bis	Serial Modem 56kbaud Internet-capable	3.3	539-1014-ND	92.31	80.01	CC-56K2N-CS
V.92, V.42, V.42bis	Serial Modem 56kbaud Internet-capable	5.0	539-1013-ND	92.76	80.40	CC-93K2N-CS5
World Modem Secure						
V.21, V.22, V.22bis, V.23	Serial Modem Secure 5V Compatible, 2400baud	5.0	539-1009-ND	35.91	31.13	CC-2401K2A-CS5
V.21, V.22, V.22bis, V.23	Serial Modem Secure 2400baud	3.3	539-1010-ND	33.96	29.44	CC-2401K2A-CS
Socket Radio Modem						
33.6K	Radio Modem 900MHz MMCX Connector	3.3	539-1003-ND	54.49	51.19	CC-900W-CB
33.6K	Radio Modem 900MHz with Antenna	3.3	539-1005-ND	72.92	68.51	CC-900W-CA
Antenna — RoHS Compliant						
—	916MHz PCB Mount Antenna	—	539-1021-ND	5.57	4.83	CC-ANT923842
Development Kits						
—	World Modem Secure Development Kit		539-1028-ND	150.00	—	CC-EVB-SECURE
—	World Modem Net Development Kit		539-1029-ND	292.50	—	CC-EVB-56KNET
—	World Modem II Development Kit		539-1002-ND	199.00	—	CC-CC-EVB-56K
—	Socket Radio Development Kit		539-1004-ND	399.00	—	CC-SR-EVAL

Zoom™ Starter Development Kit
Low Cost Development System

Description	Digi-Key Part No.	Price Each	Logic Product Dev. Part No.
Sharp			
Card Engine for LH79520	460-3464-ND◆	264.67	CENGLH79520-10-403HCR-A
Card Engine for LH7A400, with 16Mb NOR Flash	460-3459-ND	295.26	CENGLH7A400-10-503HC-B
Zoom Starter Kit for LH7A404	460-1017-ND	399.00	SDK-LH7A404-11-6416
Card Engine for LH7A404, with 16Mb NOR Flash	460-3465-ND◆	304.57	CENGLH7A404-11-503HCR-A
Card Engine for LH7A404, with 32Mb NOR Flash	460-3467-ND◆	348.46	CENGLH7A404-11-504HCR-B
Zoom Starter Kit for LH7A404	460-3473-ND◆	399.00	SDK-LH7A404-11-6416R
Zoom Starter Kit for LH79524	460-3474-ND◆ ***NEW!***	438.90	SDK-LH79524-10-3216R-A
AMD			
Geode™ LX800 System on Module (SOM)	460-3466-ND◆	264.67	SOMLX800-11-000GCR-A
Evaluation Kit Zoom Geode for NX1500	460-1030-ND	731.50	NX-DB1500S-EVAL-KT
Evaluation Kit Zoom Geode for LX800	460-3468-ND◆	847.21	LX-DB800D-EVAL-KIT
Marvell — RoHS Compliant			
Zoom Starter Kit for PXA270	460-3472-ND	563.92	SDK-PXA270-520-10-6432R
Renesas			
Zoom Starter Kit for SH7727	460-1026-ND	450.87	SDK-SH7727-20
Zoom Starter Kit for SH7760	460-1027-ND	506.73	SDK-SH7760-10-6416
NEW! Intel — RoHS Compliant NEW!			
Card Engine for PXA270	460-3475-ND	231.42	CENGPXA270-312-10-550ECR
NEW! Freescale — RoHS Compliant NEW!			
Zoom Kit for PowerQuicc MPC8360 400MHz	460-3476-ND	457.52	COMMPC8360-10-1652LCR
Zoom Kit for PowerQuicc MPC8360 667MHz	460-3477-ND	666.33	COMMPC8360E-10-2752FCR
NEW! Texas Instruments — RoHS Compliant NEW!			
Zoom Starter Kit for OMAP3530	460-3478-ND	1050.70	TMDSMEVM3530-L

◆ ***RoHS Compliant***

Sharp and Renesas Zoom Starter Development Kit Includes: • Card Engine (LH79520, LH79524, LH7A400, LH7A404, SH7727, SH7760) • Application board • Standard peripheral connectors supporting: Ethernet, LCD, Audio In/Out, Serial, Compact Flash (Refer to Card Engine for support of peripherals) • Power supply and adapters for UK, US, EU, Japan • Serial cable • LogicLoader™ (bootloader/monitor) in executable format • BSPs available depending on Card Engine purchased • GNU cross-development tools (compiler, linker, assembler, debugger) are included for Linux development systems

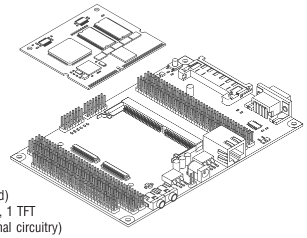

Card Engine Application Development Kits reduce product development time by allowing software teams to immediately begin application development on platforms that transfer seamlessly to production. They provide: • Product-ready Card Engine platforms support final production • Production quality device drivers and bootloader • Support for Microsoft Windows CE and CE.NET, Linux embedded OS, VxWorks, ThreadX, and MC/OSII • Vast array of on-board hardware peripherals

AMD Zoom Geode Evaluation Kit: • AMD Geode™ NX1500 @6W processor (NX1250 and NX1750 available) • Fanless design • DIMM memory support for PC 2700 DDR DRAM up to 1 GB (256MB included) • SIS741CX Northbridge • SIS964 Southbridge • 1 VGA, 1 TFT flat panel adapter (TFT support requires separate external circuitry) • Optional touch panel support • SIS900 compatible ethernet adapter (10/100base-TX) • Wake on LAN support • AC97 Audio controller interface (SIS7012 Compatible) • PCI 2.2 Expansion slot • Support for 6 USB 2.0 High Speed (480 Mbps) host connections • Winbond W83627 SuperIO Controller • 1 parallel, 2 serial (1 DB9, 1 header on-board), System/CPU temperature/voltage monitor • ACPI 2.0 power management (support for S1, S3, and S5 sleep states). Kit contents: Geode NX1500 SBC, 256 MB DDR DIMM, Heatsink, Development tools and software, Support documentation

Marvell Zoom Starter Kit: • Standard peripheral connectors supporting: Ethernet, LCD, Audio In/Out, Serial, Compact Flash, USB Host, USB device • Power supply and adapters for UK, US, EU, Japan, serial cable • LogicLoader™ (bootloader/monitor) in executable format • GNU cross-development tools (compiler, linker, assembler, debugger) are included. Kit contents: Card Engine, Application Board, Ethernet cross-over cable, Serial cable, Power supply/adapter (Europe, Japan, UK, and US), QuickStart Guide, Logic Starter CD, EULA

Intel: • The PXA270 Card Engine is a complete System on Module (SOM) that offers essential features for handheld and embedded networking applications • Use of custom baseboards makes the Card Engine the ideal foundation for OEMs developing handheld and compact products • Provides a common reference pin-out on its expansion connectors, which enables easy scalability to next generation microprocessor Card Engines when new functionality or performance is required.

Freescale: MPC8360 COM EXPRESS: • Product-ready SOM with the Freescale PowerQUICC™ MPC8360 processor running at 400MHz or MPC8360E processor running at 667MHz • COM Express compact form factor 95mm x 95mm x 14.5mm • Long product life-cycle • U-Boot bootloader installed in flash • Linux Board Support Packages (BSPs).

Texas Instruments: OMAP 3 SOM-LV: • Product-ready System on Module with a TI OMAP 3 processor running up to 600MHz (SOM hardware supports OMAP3530, OMAP3525, OMAP3515, OMAP3503, and OMAP3430 processors) • Compact form factor - SOM-LV Type III (31mm x 76.2mm x 7.4mm) • Long product lifecycle • Microsoft Windows® Embedded CE 6.0 Board Support Packages (BSPs) • Open source Linux™ BSP.

Zoom™ Display Kit

The Zoom Display Kits are ready to use LCD displays that can be immediately connected to the Zoom Application Development Kits. The display kits include: • Bezel • Backlight • 4 Wire Resistive Touch Panel • Cable Assemblies

Description	Sharp LCD Part No.	Digi-Key Part No.	Price Each	Logic Product Dev. Part No.	Display Format	Sharp Card Engine						
						LH79520	LH79524	LH75401	LH7A400	LH7A404	SH7727	SH7760
3.6” QVGA (320 x 240), Color TFT	LQ036Q1DA01	460-3470-ND◆	597.17	LCD-3.6-QVGA-10R-A	QVGA (320 x 240)	X	X	X	X	X	X	X
6.4” VGA (640 x 480), Color TFT	LQ64D343	460-3471-ND◆	903.07	LCD-6.4-VGA-10R	VGA (640 x 480)	X			X	X		
Freescale Display Cable	LCDCABLE-FREESCALE-10	460-1028-ND	79.80	—	—	—	—	—	—	—	—	—

◆ ***RoHS Compliant***

SHARP MICROELECTRONICS BlueStreak MCU/SoC

The 16/32 bit BlueStreak MCU/SoCs offer higher performance than ordinary 16-bit MCU utilizing the ARM7TDMI core with 32KB of on-chip SRAM, color and grayscale LCD controller, plus three UARTs, SPI, CAN 2.0B, three 16-bit Counter/Timers, A/D Converter, Watchdog Timer and Low Voltage Detector, they are an excellent solution to speed-versus-cost concerns. Applications include GPS, PDA, Printers/Copiers, Security Control Panels, and White Goods.

The 32-bit series of BlueStreak MCU/SoCs begins with the LH795x and LH754xx, which combine a 32-bit ARM7TDMI RISC core with 8KB Cache, MMU, color LCD controller, and 32KB SRAM. Also included are a number of essential peripherals such as a DMA Controller, Serial and Parallel Interfaces, Infrared Support, Counter/Timers, Real Time Clock, Watchdog Timer, Pulse Width Modulators and an on-chip Phase Lock Loop. For more power, the LH7A40x SoCs build on this basic feature set with 80KB of SRAM, ARM9 cores and add highly-desired functionality like USB and MMC. With their high performance and integration, the 32-bit BlueStreak devices are a great choice as a basis for handheld devices like GPS, Games, PDAs, Pocket PCs, and Media Players. **Features: • Operating Temperature**: Industrial (-40°C ~ 85°C) • **VCC**: 1.8V • **SPI**: Yes • **WDT**: Yes • **JTAG**: Yes

Memory Size RAM Bytes	GP I/O Pins	UART	CAN	DMA	USB	Microwire	Timer/ Counters 16-bit	PWM	ADC	LCD Controller	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each	Sharp Part No.
32K	76	3	2.0B	4-Channel	—	Yes	3	3	8-Ch, 10-Bit	Y (Gray)	70	144-TQFP	425-1860-ND	15.93	LH75400N0M100C0
	86	3 (w/IrDA)	—	4-Channel	v2.0	Yes	3	3	10-Ch, 10-Bit	Y (Color)	77.4	176-LQFP	425-1866-ND	20.38	LH79525N0M100A0
80K	60	3 (w/IrDA)	—	10-Channel	v2.0	Yes	3	2	—	Y (Color)	200	256-CABGA	425-1867-ND	24.95	LH7A400N0E000B3A
	64	3 (w/IrDA)	—	12-Channel	v2.0	Yes	3	2	10-Ch, 10-Bit	Y (Color)	200	324-CABGA	425-1868-ND	35.15	LH7A404N0E000B0A
	64	3 (w/IrDA)	—	12-Channel	v2.0	Yes	3	4	9-Ch, 10-Bit	Y (Color)	200	324-CABGA	425-2497-ND◆	35.15	LH7A404N0F000B1A

◆ ***RoHS Compliant***

SENSORY

RoHS COMPLIANT

VR Stamp™ Voice Recognition Module and Tool Kit

Description	Digi-Key Part No.	Price Each	Sensory Part No.
VR Stamp Tool Kit	VRKIT-ND	349.98	66-0110
VR Stamp Module	VRMOD-ND	39.95	66-0119

VR Stamp Voice Recognition Module

The VR Stamp is the first rapidly deployable speech module to use Sensory’s proprietary Quick T2SI™ (text to speaker independent) technology, which allows developers to create working recognition sets in minutes. Multiple languages are supported, making the VR Stamp useful for products virtually anywhere in the world. Based on Sensory’s RSC Family of microcontrollers, the VR Stamp is a completely modularized, production ready speech recognition system that allows products to speak and hear with minimal development time and low system cost. VR Stamp simplifies the integration of speech recognition into products by combining all key components into a small 40-pin DIP footprint module. A low-noise audio channel and standardized packaging allow rapid prototyping, less debugging and shorter time to market. The VR Stamp offer 24 I/O lines, as well as connections for a power, ground, microphone, speaker and logic-level RS232 interface.

Kit Contains: VR Stamp Tool Kit CD (FluentChip™ technology library, Quick T2SI Lite, Quick Synthesis 4, documentation, drivers and demos), Phyton C Compiler (60-day trial) CD and dongle, VR Stamp Programming Board, 2 VR Stamp Modules, 120V Power Supply, Speaker and USB Cable.

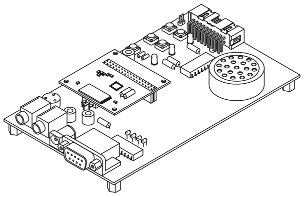

Quadravox QV400D™ Prototype Programming Kit for Winbond ChipCorder Devices

System Overview:

QV400D provides all the software and hardware functions needed to develop complex messaging systems using Winbond's ChipCorder family of analog recording devices. Utilizes standard Windows® .wav format as input (11.025KHz, 16-Bit mono format only). **Project Software:** QV400S™ is a software package designed to unify the interface between users and various speech development systems produced by Quadravox. It consists of one executable file, QV400S1.exe (for Windows 95 or later), several DLLs (one at least for each development system), several help files, and an initialization file, QV400S1.ini (Win95 or later). **Programmer Hardware:** The speech data created by the project software may be programmed into any Winbond ChipCorder device using the QV400D Programmer Board. Separate easy-to-use ZIF sockets are provided for the ISD1000-2500 and ISD33000-4000 devices. **Power Supply:** Output voltage: 9VDC; Current: 200mA minimum, 110V AC, 60Hz input **Minimum System Requirements:** QV400D will run on any PC operating under Windows '95 or '98 • CPU Pentium 66MHz • 8MB Ram (16MB and up preferred) • 1.5MB hard disk space • A 16-Bit sound card capable of 11.025KHz record and 16-Bit, 44.1KHz stereo playback is also needed for data acquisition.

Package Type	For Device Type	Digi-Key Part No.	Price Each
Socket Adapters for the QV400D			
28/600 DIP	ISD5008P and ISD5116P	QV400D-03A-ND	39.00
28/300 SOIC	ISD5008S and ISD5116S	QV400D-03B-ND	39.00
28-Pin TSOP	ISD5008E and ISD5116E	QV400D-03C-ND	39.00
28/300 SOIC	ISD1100S, 1200S, 1400S and 2500S	QV400D-04-ND	39.00
28/350 SOIC	ISD1100G and ISD2 500G	QV400D-05-ND	39.00
28/300 SOIC	ISD33000S and ISD4000S	QV400D-06-ND	39.00
28-Pin TSOP	ISD33000E and ISD4000E	QV400D-07-ND	39.00
—	ISD33000 OR 4000 Based Module	QV400D-08-ND	19.00

Prototype Programming Kit for Winbond ChipCorder Devices
Kit Contents:
- 2 Floppy Disks containing all QV400D software and documentation (Help file)
- 1 Programmer Board with two empty ZIF sockets
- 1 Audio Cable (6 ft. shielded, 1/8" stereo miniplug at both ends)
- 1 Power Supply: 9V DC 300mA, 2.1mm female plug, center positive

QV400D-ND **$249.00**

winbond

Single and Dual Channel Voiceband CODEC

Winbond's family of voice CODEC solutions addresses the market requirements for voice-grade A/D and D/A conversion at the lowest possible cost. In order to digitize and reconstruct the cleanest voice signals possible, the single channel and dual channel CODECs were designed to the recommendations of the industry G.712 filters specification and the µ-Law and A-Law G.711 companding specifications.

Features: • A-Law/µ-Law companding according to ITU-T G.711 by pin selection • A/D and D/A filter according to ITU-T G.712 • Lowest power dissipation in the industry in standby and powered modes • Four PCM Digital Interface Clock Formats - Short Frame Sync, Long FrameSync, IDL and GCI • Fully-Differential Analog Circuit Design for lowest noise • On-Chip Precision Reference Voltage • Industrial Temperature Range: -40°C ~ 85°C

Applications: • PABX/SOHO systems • ISDN equipment • Modems/PC cards • Fiber-to-the-curb equipment • Enterprise phones • VOIP and Internet phones • Telematics • Speaker phones • Digital telephony systems

Description	Package	Digi-Key Part No.	Price Each	Winbond Part No.
IC Voiceband				
Single, 5V	20-DIP	W6810IE-ND	2.79	W6810IE
	20-SOP	W6810IS-ND	2.79	W6810IS
	20-TSSOP	W6810IW-ND	2.79	W6810IW
Single, 3/5V	24-DIP	W6811IE-ND	2.96	W6811IE
	24-SSOP	W6811IR-ND	2.96	W6811IR
Single, 5V	20-SOP	W681511S-ND	2.94	W681511S
	20-SOP	W681513S-ND	2.60	W681513S
Dual, 5V	20-DIP	W682510E-ND	3.94	W682510E
Evaluation System				
W6810 Series		W6810ES-ND	15.00	W6810ES
W681310 Series		W681310ES-ND	15.00	W681310ES
W681512 Series		W681512ES-ND	15.00	W681512ES
Development Kits				
W6810 Series		W6810DK-ND	133.00	W6810DK
W682310 Series		W682310DK-ND	106.40	W682310DK
W682510 Series		W682510DK-ND	106.40	W682510DK

ISD1700 Series Evaluation Board

This demo board allows the complete operation of the Winbond I17xx ChipCorder® IC controlled through the USB port of a PC. All the functions of the chip may be selected in real time to allow complete evaluation of this chip for an end application. The PC connects to the demo board using a standard USB cable. (Not included in the package) The demo board also works in stand alone mode (Push Button Mode)
Kit Contents: • One Sample ISD17150 • CD (with Applications Software and User's guide withdemo boards schematics) • Three AA batteries • An Eight Ohm Speaker

Description	Digi-Key Part No.	Price Each
Demo Board	ISD-ES1700-USB-PB-ND	270.00

ChipCorder® Demo Boards

These Demo boards for the ISD1600 and ISD1700 families of ChipCorder devices demonstrate the functionalities and voice quality of the ISD devices. The default settings for sampling frequency and output are 8kHz and PWM speaker outputs, respectively. Sampling frequency can be changed by replacing a resistor on the demo board. **Kit Contents:** • Demo Board • Users Manual

Description	Duration	Digi-Key Part No.	Price Each
ISD1600 Series			
Demo Board for ISD1620	20 Sec.	I16-COB20-ND	5.32
ISD1700 Series			
Demo Board for ISD17150	150 Sec.	ISD-COB17150-ND	13.30
Demo Board for ISD17240	240 Sec.	ISD-COB17240-ND	13.30
Demo Board for ISD1730	30 Sec.	ISD-COB1730-ND	10.64
Demo Board for ISD1760	60 Sec.	ISD-COB1760-ND	10.64

Single-Chip Voice Record/Playback Devices

General Description:
Winbond's patented ChipCorder® technology is a revolutionary multilevel technique to record and play back sound on a single-chip. The advanced technology provides natural sound reproduction, in a cost-effective device that retains stored messages in the event of power loss or battery replacement. The technology, based on a unique multilevel storage approach, stores multiple voltage levels into previously binary, two level EEPROM memory cells. Unlike traditional voice solutions whereby voice is digitized, the Winbond approach stores analog signals directly into single cells as one of over 250 levels. All ChipCorder products integrate the oscillator, microphone pre-amplifier, automatic gain control, anti-aliasing filter, smoothing filter, and speaker amplifier on-chip to achieve a complete "system on a chip." Only a microphone, speaker, power source, and a few passive components are needed to implement a complete record/playback function.

ISD1600B Series: Description: The ISD1600B Series ChipCorder is a single-message, single-chip, record/playback solution with selectable durations from 6.6 to 40 seconds. With the ISD1600B device a minimum record/playback subsystem can be configured with a microphone, a speaker or buzzer, several passive components, two push buttons, and a power source. **Features:** 2.4 ~ 5.5 operating voltage. Sample frequency 4KHz ~ 12KHz controlled by external resistor.

ISD2500 Series: Description: The ISD2500 family offers improvement in speech length up to a maximum of 90 seconds. This extends the single-chip voice solution to industrial and high-end consumer applications. This family offers sound capability for new applications such as cellular phones, answering machines, voice-response faxes, copy machines and industrial applications where voice prompting provides product differentiation for equipment and manufacturers. **Features:** • 5 volt operating range • Fully addressable to handle multiple messages • Directly cascadable for longer durations • Automatic power-down (push-button mode)

ISD400X Series: Description: The ISD4000 series provides high-quality, 3 volt, single-chip record/playback solutions for 2 to 4 minutes (ISD4002), 4 to 8 minutes (ISD4003), and 8 to 16 minutes (ISD4004) messaging applications. These CMOS-based devices include an on-chip oscillator, anti-aliasing filter, smoothing filter, AutoMute™ feature, audio amplifier, and high density, multilevel Flash storage array. **Features:** • Single +3 volt supply • Low-power consumption • AutoMute feature to provide background noise attenuation • Fully addressable to handle multiple messages • On-chip clock source • Microcontroller SPI or Microwire™ Serial Interface

ISD5008 Series: Description: The ISD5008 device is designed for use in a microprocessor- or microcontroller-based system. Address, control, and duration selection are accomplished through a Serial Peripheral Interface (SPI) or Microwire Serial Interface to minimize pin count. Recordings are stored in on-chip nonvolatile memory cells, providing zero-power message storage. Voice and audio signals are stored directly into solid-state memory in their natural, uncompressed form, providing superior quality voice and music reproduction. **Features:** • Fully-integrated solution • Low-power consumption • Single +3 volt supply • Enhanced voice features • Easy-to-use and control • High quality solution

ISD5116 Series: Description: The ISD5116 ChipCorder Product provides high quality, fully integrated, single-chip Record/Playback solutions for 8-16 minute messaging applications that are ideal for use in cellular phones, automotive communications, GPS/navigation systems and other portable products. **Features: Fully-integrated solution:** • Single-chip voice record/playback solution • Low-power consumption supports 2.0V and 3.0V interface logic • Enhanced voice features • Digital memory features up to 4 MB • Easy-to-use and control • High quality voice and music reproduction

ISD1700 Series: Description: The ISD1700 series allows durations of up to 480 seconds (dependant on sample rate). Because of an integrated trigger and SPI interfaces this series can operate in stand-alone or embedded mode. **Features:** 2.4 ~ 5.5 operating voltage. Sample frequency 4KHz ~ 12KHz controlled by external resistor

Duration	Interface	Input Sample Rate (KHZ)	Pkg.	Digi-Key Part No.	Price Each 1	10	25	Winbond Part No.
10 Sec.	Pushbutton	8.0	16-SOIC	ISD1610BSY-ND◆	4.41	3.60	2.88	ISD1610BSY
12 Sec.	Pushbutton	8.0	16-SOIC	ISD1612BSY-ND◆	4.78	3.90	3.12	ISD1612BSY
16 Sec.	Pushbutton	8.0	16-SOIC	ISD1616BSY-ND◆	5.34	4.36	3.49	ISD1616BSY
20 Sec.	Pushbutton	8.0	16-SOIC	ISD1620BSY-ND◆	5.86	4.78	3.83	ISD1620BSY
40 Sec.	Pushbutton/ SPI	8.0	28-TSOP	ISD1740EY-ND◆	7.20	5.76	4.61	ISD1740EY
			28-DIP	ISD1740PY-ND◆	7.20	5.76	4.61	ISD1740PY
			28-SOIC	ISD1740SY-ND◆	7.20	5.76	4.61	ISD1740SY
50 Sec.	Pushbutton/ SPI	8.0	28-TSOP	ISD1750EY-ND◆	7.53	6.02	4.82	ISD1750EY
			28-DIP	ISD1750PY-ND◆	7.53	6.02	4.82	ISD1750PY
1 Min.	Pushbutton/ SPI	8.0	28-TSOP	ISD1760EY-ND◆	7.74	6.32	5.06	ISD1760EY
			28-DIP	ISD1760PY-ND◆	7.74	6.32	5.06	ISD1760PY
			28-SOIC	ISD1760SY-ND◆	7.74	6.32	5.06	ISD1760SY
90 Sec.	Pushbutton/ SPI	8.0	28-TSOP	ISD1790EY-ND◆	9.16	7.48	5.99	ISD1790EY
			28-DIP	ISD1790PY-ND◆	9.16	7.48	5.99	ISD1790PY
			28-SOIC	ISD1790SY-ND◆	9.16	7.48	5.99	ISD1790SY
2 Min.	Pushbutton/ SPI	8.0	28-SOIC	ISD17120PY-ND◆	10.08	8.06	6.45	ISD17120PY
			28-DIP	ISD17120SY-ND◆	10.08	8.06	6.45	ISD17120SY
150 Sec.	Pushbutton/ SPI	8.0	28-DIP	ISD17150PY-ND◆	10.56	8.62	6.90	ISD17150PY
3 Min.	Pushbutton/ SPI	8.0	28-TSOP	ISD17180EY-ND◆	11.61	9.48	7.59	ISD17180EY
			28-SOIC	ISD17180PY-ND◆	11.61	9.48	7.59	ISD17180PY
			28-DIP	ISD17180SY-ND◆	11.61	9.48	7.59	ISD17180SY
4 Min.	Pushbutton/ SPI	8.0	28-DIP	ISD17240PY-ND◆	13.28	10.62	8.50	ISD17240PY
			28-SOIC	ISD17240SY-ND◆	13.28	10.62	8.50	ISD17240SY
2 Min.	SPI/ Microwire	8.0	28-DIP	ISD4002-120PY-ND◆	10.90	8.90	7.12	ISD4002-120PY
			28-SOIC	ISD4002-120SY-ND◆	10.90	8.90	7.12	ISD4002-120SY
			28-TSOP	ISD4002-120E-ND	10.90	8.90	7.12	ISD4002-120E

Duration	Interface	Input Sample Rate (KHZ)	Pkg.	Digi-Key Part No.	Price Each 1	10	25	Winbond Part No.
150 Sec.	SPI/ Microwire	6.4	28-SOIC	ISD4002-150S-ND	10.90	8.90	7.12	ISD4002-150S
			28-TSOP	ISD4002-150E-ND	10.90	8.90	7.12	ISD4002-150E
3 Min.	SPI/ Microwire	5.3	28-DIP	ISD4002-180PY-ND◆	10.90	8.90	7.12	ISD4002-180PY
			28-SOIC	ISD4002-180S-ND	10.90	8.90	7.12	ISD4002-180S
4 Min.	SPI/ Microwire	8.0	28-DIP	ISD4003-04MPY-ND◆	13.38	10.92	8.74	ISD4003-04MPY
			28-SOIC	ISD4003-04MSY-ND◆	13.38	10.92	8.74	ISD4003-04MSY
			28-TSOP	ISD4003-04ME-ND	13.38	10.92	8.74	ISD4003-04ME
5 Min.	SPI/ Microwire	6.4	28-DIP	ISD4003-05MP-ND	13.38	10.92	8.74	ISD4003-05MP
			28-TSOP	ISD4003-05ME-ND	13.38	10.92	8.74	ISD4003-05ME
6 Min.	SPI/Microwire	5.3	28-SOIC	ISD4003-06MS-ND	13.38	10.92	8.74	ISD4003-06MS
8 Min.	SPI/ Microwire	4.0	28-DIP	ISD4003-08MP-ND	13.38	10.92	8.74	ISD4003-08MP
			28-SOIC	ISD4003-08MS-ND	13.38	10.92	8.74	ISD4003-08MS
			28-TSOP	ISD4003-08ME-ND	13.38	10.92	8.74	ISD4003-08ME
8 Min.	SPI/ Microwire	8.0	28-DIP	ISD4004-08MPY-ND◆	19.18	15.66	12.53	ISD4004-08MPY
			28-SOIC	ISD4004-08MSY-ND◆	19.18	15.66	12.53	ISD4004-08MSY
			28-TSOP	ISD4004-08MEY-ND◆	19.18	15.66	12.53	ISD4004-08MEY
10 Min.	SPI/ Microwire	6.4	28-DIP	ISD4004-10MP-ND	19.18	15.66	12.53	ISD4004-10MP
			28-TSOP	ISD4004-10ME-ND	19.18	15.66	12.53	ISD4004-10ME
			28-TSOP	ISD4004-10MEY-ND◆	19.18	15.66	12.53	ISD4004-10MEY
12 Min.	SPI/ Microwire	5.3	28-DIP	ISD4004-12MP-ND	19.18	15.66	12.53	ISD4004-12MP
			28-TSOP	ISD4004-12ME-ND	19.18	15.66	12.53	ISD4004-12ME
16 Min.	SPI/ Microwire	4.0	28-DIP	ISD4004-16MPY-ND◆	19.18	15.66	12.53	ISD4004-16MPY
			28-SOIC	ISD4004-16MSY-ND◆	19.18	15.66	12.53	ISD4004-16MSY
			28-TSOP	ISD4004-16ME-ND	19.18	15.66	12.53	ISD4004-16ME
4~8 Min.	SPI/ Microwire	4.0-8.0	28-DIP	ISD5008P-ND	17.25	14.08	11.27	ISD5008P
			28-TSOP	ISD5008E-ND	16.56	13.52	10.82	ISD5008E
8~16 Min.	I²C	4.0-8.0	28-DIP	ISD5116PY-ND◆	20.10	16.08	12.87	ISD5116PY
			28-SOIC	ISD5116SY-ND◆	20.10	16.08	12.87	ISD5116SY
4 Min.	Pushbutton/ SPI	8.0	28-DIP	ISD4002-240PY-ND◆	10.90	8.90	7.12	ISD4002-240PY
4~8 Min.			28-DIP	ISD5008PY-ND◆	17.25	14.08	11.27	ISD5008PY

◆ ***RoHS Compliant***

PARALLAX BASIC Stamp® Modules

Released Products	***Rev. D/BS1-IC***	***BS2-IC***	***BS2e-IC***	***BS2sx-IC***	***BS2p24-IC***	***BS2p40-IC***	***Javelin Stamp***
Package	PCB with Proto / 14-pin SIP	24-pin DIP	24-pin DIP	24-pin DIP	24-pin DIP	40-pin DIP	24-pin DIP
Package Size (L x W x H)	2.5” x 1.5” x .5” / 1.4” x 0.6” x 0.1”	1.2” x 0.6” x 0.4”	1.2” x 0.6” x 0.4”	1.2” x 0.6” x 0.4”	1.2” x 0.6” x 0.4”	2.1” x 0.6” x 0.4”	1.24” x 0.6” x 0.45”
Environment*	0°C ~ 70°C (32°F ~ 158°F)**	0°C ~ 70°C (32°F ~ 158°F)**	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)
Microcontroller	Microchip PIC16C56c	Microchip PIC16C57c	Scenix SX28AC	Scenix SX28AC	Scenix SX48AC	Scenix SX48AC	Ubicom SX48AC
Processor Speed	4MHz	20MHz	20MHz	50MHz	20MHz Turbo	20MHz Turbo	25MHz Turbo
Program Execution Speed	~ 2,000 Instruct. / Sec.	~ 4,000 Instruct. / Sec.	~ 4,000 Instruct. / Sec.	~ 10,000 Instruct. / Sec.	~ 12,000 Instruct. / Sec.	~ 12,000 Instruct. / Sec.	~ 8,500 Instruct./ Sec.
RAM Size	16 Bytes (2 I/O, 14 Variable)	32 Bytes (6 I/O, 26 Variable)	32 Bytes (6 I/O, 26 Variable)	32 Bytes (6 I/O, 26 Variable)	38 Bytes (12 I/O, 26 Variable)	38 Bytes (12 I/O, 26 Variable)	32,768 Bytes
Scratch Pad RAM	N/A	N/A	64 Bytes	64 Bytes	128 Bytes	128 Bytes	N/A
EEPROM (Program) Size	256 Bytes, ~ 80 instruct.	2K Bytes, ~ 500 Instruct.	8 x 2K Bytes, ~ 4,000 instruct.	8 x 2K Bytes, ~ 4,000 Instruct.	8 x 2K Bytes, ~ 4,000 Instruct.	8 x 2K Bytes, ~ 4,000 Instruct.	32,768 Bytes
Number of I/O pins	8	16 + 2 Dedicated Serial	16 + 2 Dedicated Serial	16 + 2 Dedicated Serial	16 + 2 Dedicated Serial	32 + 2 Dedicated Serial	16
Voltage Requirements	5 ~ 15VDC	5 ~ 15VDC	5 ~ 12VDC	5 ~ 12VDC	5 ~ 12VDC	5 ~ 12VDC	5VDC (regulated), 6 ~ 24VDC (unregulated)
Current Draw at 5V	2mA Run / 20µA Sleep	8mA Run / 100µA Sleep	20mA Run / 100µA Sleep	60mA Run / 200µA Sleep	40mA Run / 400µA Sleep	40mA Run / 400µA Sleep	60mA Run / 13mA Sleep
Source / Sink Current per I/O	20mA / 25mA	20mA / 25mA	30mA / 30mA	30mA / 30mA	30mA / 30mA	30mA / 30mA	30mA / 30mA
Source / Sink Current per Unit	40mA / 50mA	40mA / 50mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins
PBASIC Commands	32	36	39	39	55	55	0 (Java)
PC Programming Interface	Parallel Port	Serial Port (9600 baud)	Serial Port (9600 baud)	Serial Port (9600 baud)	Serial Port	Serial Port	Serial Port
DOS Text Editor	STAMP.EXE	STAMP2.EXE	STAMP2E.EXE	STAMP2SX.EXE	STAMP2P.EXE	STAMP2P.EXE	N/A
Windows Text Editor	N/A	Stampw.exe (v1.04 and up)	Stampw.exe (v1.096 and up)	Stampw.exe (v1.091 and up)	Stampw.exe (v1.1 and up)	Stampw.exe (v1.1 and up)	Javelin Stamp IDE

***** 70% Non-condensing Humidity ****** Industrial Models Available, -40°C ~ 85°C (-40°F ~ 185°F). Order Part Number BS2I-IC-ND.

BASIC Stamp 2 (BS2-IC): The BS2-IC is a popular module for use in hobby, educational and industrial applications. This general purpose computer is programmed in BASIC and has 16 I/O lines.

Understanding Signals Parts and Text: This package includes a dual trace Parallax Digital Oscilloscope which connects to a PC with a USB cable (included). This oscilloscope requires no external power supply and all controls are managed through a point and click PC interface. Also included are three pairs of probes, a 144 page Understanding Signals text and the Understanding Signals Parts Kit.

Propeller™ Demo Board Kit: Includes a Propeller Demo Board, and a USB A to Mini B Cable.

Propeller Starter Kit: Includes a Propeller Manual, Propeller Demo Board, and a USB A to Mini B Retractable Cable.

Propeller PropSTICK Kit: Includes a Propeller P8X32A-D40 chip, 24LC256 EEPROM, serial programming interface, 3.3V voltage regulator, and a reset circuitry that you assemble yourself into a handy DIP module. Developed and manufactured by Bueno Systems. *Please note: Assembly is required.*

Propeller Accessories Kit: Includes a 2.5” LCD A/V Display, Parallax PS/2 Mini Keyboard, and a Parallax PS/2 Optical Mouse.

STAMP2-ND

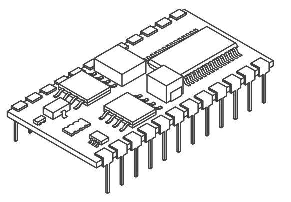

28119-ND

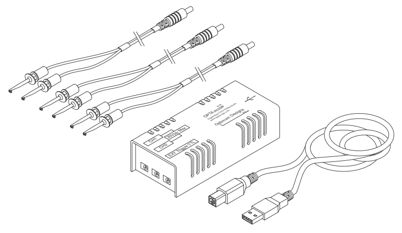

Description	Digi-Key Part No.	Price Each 1	5	10	25
BASIC Stamp Modules					
BS1-IC BASIC Stamp Module	STAMP1-ND	29.00	—	26.10	24.65
BS2-IC BASIC Stamp Module	STAMP2-ND◆	49.00	—	44.10	41.65
BASIC Stamp 2E Module	BS2E-IC-ND	54.00	—	48.60	45.90
BASIC Stamp 2SX Module	BS2SX-IC-ND	59.00	56.05	53.10	50.15
BASIC Stamp 2P24 pin Module	BS2P24-ND	79.00	75.05	71.10	67.15
BASIC Stamp 2P40 pin Module	BS2P40-ND	89.00	84.55	80.10	75.65
BASIC Stamp Javelin Module	JS1-IC-ND	89.95	85.45	80.96	—
BASIC Stamp Collection Module	020-78267-ND	199.95	—	—	—
BASIC Stamp Starter Kits					
BASIC Stamp 1 Starter Kit	27205-ND	79.95	75.95	71.96	—
BASIC Stamp 2OEM Module Kit	27291-ND	30.95	29.40	27.86	—
Javelin Stamp Starter Kit	27237-ND	249.95	237.45	224.96	—
Prototype and Development Boards					
BASIC Stamp Super Carrier Board	27130-ND	19.95	—	17.96	16.96
BASIC Stamp 1 Project Board	27112-ND	14.95	—	—	—
Board of Education	28150-ND	69.95	—	58.77	—
BS1-IC Carrier Board	STAMP1C-ND	4.95	—	4.46	4.21
BS2-IC Carrier Board	STAMP2C-ND	15.95	—	14.36	13.56
BASIC Stamp Accessory Modules					
BASIC Stamp 1 Serial Adapter	27111-ND	5.94	—	—	—
Motor Mind B	27961-ND	29.95	—	—	—
PWMPAL 4 Output Channels	28020-ND	29.95	—	—	—
DS2760 Thermocouple Kit	28022-ND	34.95	—	—	—
Application Kits					
Stache Field Programmer	27330-ND	107.95	—	—	—

Description	Digi-Key Part No.	Price Each 1	5	10	25
Parallax Standard Servo Motor	900-00005-ND	12.95	12.44	—	—
Little Step U-Stepper Motor Controller	27938-ND	69.95	—	—	—
16 Servo Motor Controller	28023PAR-ND	39.95	—	—	—
Books					
BASIC Stamp Manual Ver. 2.0	27218-ND	25.95	—	19.91	—
Parallax CD-ROM	27000-ND	3.95	—	—	—
Stamps in Class Educational Kits†					
Understanding Signals Kit	28119-ND	159.95	—	—	—
“What's a Microcontroller?” Parts Kit and Text	28152-ND	69.95	—	62.96	—
“Earth Measurements” Parts Kit and Text	28153-ND	89.95	—	80.96	—
“Robotics!” Parts Kit and Text	28154-ND	89.95	—	80.96	—
Boe-Bot Full Kit	28132-ND	159.95	—	—	—
“Industrial Control” Parts Kit and Text	28156-ND	69.95	—	62.96	—
“Basic Analog and Digital” Parts Kit and Text	28155-ND	49.95	—	44.96	—
Propeller™ Processors — RoHS Compliant					
IC, 8 32-bit COGs, 40-DIP	P8X32A-D40-ND	12.95	12.44	—	—
IC, 8 32-bit COGs, 44-LQFP (10mm x 10mm)	P8X32A-Q44-ND	12.95	12.44	—	—
IC, 8 32-bit COGs, 44-QFN (10mm x 10mm)	P8X32A-M44-ND	12.95	12.44	—	—
Propeller™ Kits					
Demo Board Kit	32100PAR-ND	59.95	—	—	—
Starter Kit	32300-ND	99.95	—	—	—
PropSTICK Kit	32310-ND	71.94	—	—	—
Accessories Kit	32311-ND	107.95	—	—	—
Propeller Education Kit	32305-ND	79.95	—	—	—
FTDI USB-Serial — RoHS Compliant					
FT232RL 28-SSOP	604-00043-ND	3.99	—	—	—
FT232RQ 32-QFN	604-00047CT-ND	6.95	—	—	—
FT232RQ 32-QFN	604-00047TR-ND	15408.00/6,000			
FT2232L 48-LQFP	604-00033G-ND	6.95	—	—	—

◆ ***RoHS Compliant*** † Requires the Board of Education Full Kit or BASIC Stamp II Starter Kit

NEW!

UART Chips and Vinculum Host Controllers

VNC1L-1A USB Host Controller IC

The Vinculum VNC1L is the first in it's family of Embedded USB host controller integrated circuit devices. Not only is it able to handle the USB host interface, and data transfer functions, but also to the in-built MCU and embedded flash memory. It also can encapsulate the USB device classes. When interfacing to mass storage devices such as USB flash drives, Vinculum transparently handles the FAT file structure communicating via UART, SPI or parallel FIFO interfaces through a simple to implement command set. Vinculum provides a new cost effective solution for providing USB host capability into products that previously did not have the hardware resources available.

Features:

- 8/32 bit V-MCU Core
- Dual DMA controllers for hardware acceleration
- 64KByte embedded flash ROM program memory
- 4KByte internal data SRAM
- 2 USB 2.0 Low/Full speed USB Host/Slave ports
- UART, SPI and parallel FIFO interfaces
- Legacy PS/2 keyboard and mouse interfaces
- Up to 28 GPIO interface pins for data I/O
- 3.3V operation with 5V safe inputs
- Low operating and USB suspend current
- Full driver support for the target/slave applications
- Package: 48-LQFP
- Multi-processor configuration capable
- FIFO interface mode with 8 bit bi-directional data bus and simple 4 wire handshake for data I/O and command monitor interface
- Single chip embedded USB host/slave controller I.C. device
- Entire USB protocol handled on the chip
- Firmware easily upgradable in the field
- Support for bus powered, self powered, and high powered USB device configurations
- 0°C ~ 70°C operating temperature range

768-1000-ND (FTDI part number VNC1L-1A) **$10.90**

VDrive2 Module

The VDrive2 module provides an easy solution for adding a USB flash disk interface to an existing product. Only four signal lines plus 5V supply and ground are required to be connected. Using the VDAP firmware, the I/O interface can be selected between the serial UART or SPI using the on-board jumper pins.

Features:

- Uses VNC1L embedded USB host controller I.C. device
- USB 'A' type socket to connect USB flash disk
- Traffic indicator LED
- 2mm (0.08") pitch 8 pin connector
- 8-way header interconnect cable provided
- Only four signals to connect, excluding power and ground
- Jumper selectable UART or SPI interfaces
- Single 5V supply input
- Uses Vinculum VDAP firmware and command set
- Enclosure with snap in place clips allows for easy front panel mounting
- Program or update firmware via USB flash disk or via UART interface

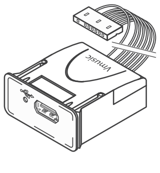

768-1003-ND (FTDI part number VDRIVE2) **$24.50**

V-Evaluation Board

The V-Evaluation kit is a hardware platform that designers can use to develop embedded USB host systems based on VNC1L devices.

Features:

- Inbuilt VNC1L USB device programmer/terminal emulator/command monitor hardware
- Two VNC1L USB Host/Slave ports
- Generous prototyping area for standard Dip and SIL devices
- Multiple I/O port connectors grouped by port name and/or function
- LEDs and switches for user interaction
- PS/2 keyboard and mouse ports
- Downloadable programming, terminal emulation and debug monitor software
- Downloadable HID class example project including PIC source code in "C"

Kit Includes:

- V-Evaluation development board
- 5V/1A universal plug top PSU
- USB A/B cable to connect to a host PC in programming/terminal emulation or debugging modes
- USB gender changer for USB slave mode applications

768-1006-ND (FTDI part number V-EVAL-1) **$69.99**

VDIP1 and VDIP2 Modules

The VDIP modules are MCU to embedded USB host controller development modules for the VNC1L I.C. device. The VDIP1 is supplied on a PCB designed to fit a 24-pin Dip socket and the VDIP2 is supplied on a PCB designed to fit into a 40-pin Dip socket which provides access to UART, parallel FIFO, and SPI interface pins on the VNC1L device with its AD and AC bus pins.

Features:

- Jumper selectable UART, parallel FIFO, or SPI MCU interfaces
- Uses VNC1L embedded USB host controller I.C. device
- Single 5V supply input
- Auxiliary 3.3V/200mA power output to external logic
- Power indicator, and USB traffic indicator LEDs
- VDIP1: USB 'A' type socket to interface with USB peripheral devices
- VDIP2: Two vertically mounted USB 'A' type socket to interface with USB peripheral devices

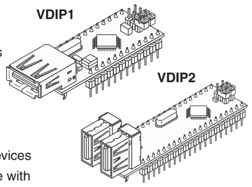

768-1001-ND (FTDI part number VDIP1) **$24.50**
768-1002-ND (FTDI part number VDIP2) **$29.50**

VMusic2 Modules

The VMusic2 module is a product which not only lets you add USB flash disk interfacing to your product, but also allows you to play back MP3 and other popular digital music formats directly from a USB flash disk. Extensions to the Vinculum VDAP command set allows you to play a selected file, as well as control the volume and balance of the sound channel, and monitor the status of the file being played.

Features:

- Uses VNC1L-1A embedded USB host controlled I.C. device combined with VLSI VS1003 I.C. for music playback
- USB 'A' type socket to connect USB flash disk
- Stereo 3.5mm headphone jack socket and audio line-out connector for audio playback
- Jumper selectable UART or SPI interfaces
- Only four signals to connect, excluding power and ground
- 2.54mm (0.1") pitch 6-pin connector compatible with TTL-232R-3V3 for easy evaluation
- Single 5V supply input
- Uses extended Vinculum VDAP firmware and command set
- Traffic indicator LED
- Program or update firmware via USB flash disk or UART interface

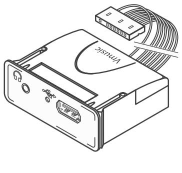

768-1004-ND (FTDI part number VMUSIC2) **$37.50**

VF2F2 Module

The VF2F2 is a reference design for the Vinculum VNC1L. It is designed as a stand alone application which allows for the back up of files from a digital camera onto a USB flash disk. At the push of a button, all the picture files on the camera are copied to a unique folder on a USB flash disk so that the digital camera memory can be re-used to take further pictures. The VF2F2 is powered by two AAA size alkaline batteries. In addition this reference design and evaluation kit could be used with other USB mass storage class devices such as MP3 players, or even for copying files directly from one USB flash disk onto another.

Features:

- Two USB 'A' type sockets connect to digital camera and USB flash disk respectively
- Uses VNC1L embedded USB host controller I.C. device
- Single button file backup function
- Intelligent LED illustrate successful USB flash disk enumeration, file copy function, and error conditions
- On-board DC-DC converter supplies the circuitry with 5V and 3.3V power from two AAA cells
- Program or update firmware via USB flash disk or UART interface

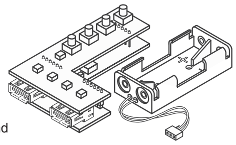

768-1005-ND (FTDI part number VF2F2).. **$35.00**

USB-UART and USB Interface ICs

USB to Serial UART IC Devices

The FT232BL includes a 3.3V regulator, a USB transceiver that provides USB 1.1/USB 2.0 full speed physical interface and a 6MHz oscillator. The FT232RL/RQ has all the features of the BL but includes on-board EEPROM, as well as a 12MHz oscillator and the FTDIChip-ID™ security dongle feature. The FT232R features a wide range of royalty free development drivers for 32 and 64 bit operating systems including Windows, CE, XP, Vista, Linux and Mac OS.

FT2232 Dual UART/FIFO IC Devices

The FT2232 device features two multi-purpose UART/FIFO controllers which can be configured individually in several different modes. As well as a UART interface, a FIFO interface and the Bit-Bang I/O mode. The FT2232 offers a variety of additional new modes of operation including a Multi-Protocol Synchronous Serial Engine (MPSSE) interface which is designed specifically for synchronous serial protocols such as I^2C, JTAG and SPI bus.

FT245R USB to Parallel FIFO IC Devices

The FT245R is a USB to parallel FIFO interface, with the new FTDI-Chip-ID™ security dongle feature. In addition, asynchronous and synchronous Bit-Bang interface modes are available. USB to parallel designs using the FT245R have been further simplified by fully integrating the external EEPROM, clock circuit and USB resistors onto the device. The FT245R adds a new function compared with its predecessors, effectively making it a "2-in-1" chip for some application areas.

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	FTDI Part No.
USB to Serial UART IC	28-SSOP	768-1007-1-ND	4.50	4.05	3.85	768-1007-2-ND	2,000	2650.00/M	FT232RL R
	32-QFN	768-1008-1-ND	4.50	4.05	3.85	768-1008-2-ND	6,000	2175.00/M	FT232RQ R
	32-LQFP	768-1009-1-ND	5.75	4.95	4.60	768-1009-2-ND	1,000	3300.00	FT232BL R
Dual USB UART/FIFO IC	48-LQFP	768-1010-1-ND	7.04	6.33	5.65	768-1010-2-ND	1,000	3849.99	FT2232D R
USB to Parallel FIFO IC	28-SSOP	768-1011-1-ND	4.50	4.05	3.85	768-1011-2-ND	2,000	2650.00/M	FT245RL R
	32-QFN	768-1012-1-ND	4.50	4.05	3.85	768-1012-2-ND	6,000	2175.00/M	FT245RQ R

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

USB Interface Products

Fig. 1 — EVAL232R Serial to USB Evaluation Module

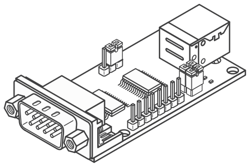

The EVAL232R is a USB to RS232 development and evaluation module for the FT232RL IC device. Additional header pins on the board which provide access to the FT232RL device's configurable CBUS interface pins. The EVAL232R supports both 3V and 5V level I/O interface voltage on the CBUS via a jumper setting. Full RTS/CTS, and DTR/DSR hardware handshaking are supported, DCD and RI are also available. RS232 communication is possible at up to 250kBaud. LEDs are fitted to indicate activity on the FT232RL transmit and receive lines, showing when the module is transmitting, or receiving data.

Fig. 2 — UB232R USB Serial Module

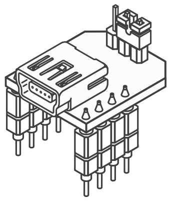

The UB232R is the smallest USB - serial module in the FTDI product range. To minimize the size of the module, the UB232R uses a standard USB mini-B connector. It is ideal for new development purposes and also for adding a USB interface to existing product designs. The UB232R supports RTS/CTS hardware handshaking and is powered from the USB port. Serial data communication is possible at up to 3MBaud at TTL level. In addition, two of the EEPROM configurable CBUS pins of the FT232R are brought out allowing the UB232R to be used to provide clock signals to external logic or signal traffic indicator LEDs. Two 1x4 turned pin board headers with a standard 0.1" pitch are supplied with the UB232R to allow for rapid protoyping and development.

Fig. 3 — UM232R USB Serial Module

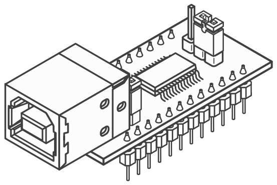

The UM232R module is a USB - serial UART (TTL) development module for the FT232R IC device. The UM232R is supplied on a PCB designed to fit a 24-Dip socket. The UM232R can be configured as either USB bus powered or self powered and also supports 3V or 5V level interface I/Os via two sets of jumper setting pins. Full hardware handshaking is supported and the UM232R can communicate at up to 3MBaud at TTL/CMOS levels.

Fig. 4 — UM245R Module

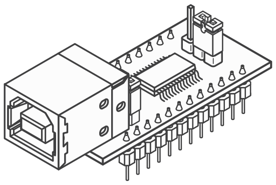

The UM245R module is a USB - parallel FIFO interface (TTL) development module for the FT245R IC device. The UM245R is supplied on a PCB designed to fit a 24-Dip socket. The UM245R can be configured as either USB bus powered or self powered and also supports 3V or 5V level interface I/Os via two sets of jumper setting pins. The UM245R can transfer data at up to 1MByte/second.

Fig. 5 — MM232R Module

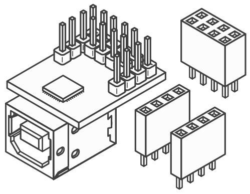

The MM232R is a mini development module for the FT232RQ IC device. It is a little bigger than a USB connector, and provides USB serial UART interface in a extremely small form factor. It is ideal for new development purposes, and also for adding a USB interface to existing product designs. Two 1x4, and one 2x4 board headers with a standard 0.1" pitch are supplied with the MM232R to allow for rapid prototyping and development.

Fig. 6 — US232R-10 Premium USB

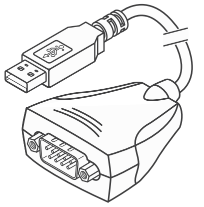

The US232R-10 is the premium USB to RS232 evaluation cable which can be used for testing the functionality of the FT232R device and drivers prior to design-in. The US232R-10 evaluation cable includes instructions together with a driver and utilities CD complete with Microsoft WHQL certified VCP drivers for Window XP. Drivers for the Apple Mac, Linux and other versions of Windows are also included on the CD. The US232R-10 is CE and FCC approved.

Fig. 7 — UC232R-10 Economy USB

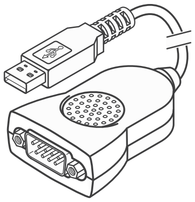

The UC232R-10 "ChiPi" is the economy version of USB to RS232 converter cable. It also serves as an evaluation cable for the FT232R. It utilizes the minimum number of components required for a basic USB RS232 converter designed using the FT232RL. Using a standard DB9 connector and powered from the USB port, the UC232R-10 "ChiPi" converter can be used with VCP drivers to provide a COM port on a PC which is capable of communication rates with RS232 devices from 300 Baud up to 230kBaud.

Fig. 8 — TTL Level Serial Converter

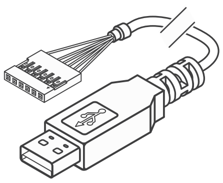

The TTL level serial converters are USB to serial (TTL level) converter cables which allow for a simple way to connect TTL interface devices to USB. The devices which are housed inside the USB 'A' connector and is terminated at the end of a 1.8 meter cable with a 0.1" pitch header socket which provided access to transmit, receive, RTS and CTS. These lines all operate at 3.3V levels. Also brought out on the header are VCC (5V) and ground.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	FTDI Part No.
1	Evaluation Module for FT232RL	768-1023-ND	21.00	19.00	17.50	EVAL 232R
2	UB232R USB Serial Module	768-1022-ND	17.50	15.50	14.00	UB232R
3	UM232R USB Serial Module	768-1019-ND	20.00	18.00	16.50	UM232R
4	UM245R USB Serial Module	768-1020-ND	20.00	18.00	16.50	UM245R
5	MM232R Module	768-1021-ND	18.00	16.00	14.50	MM232R
6	Premium version USB to RS232 converter cable. DB9 male for connection to target. RS232 voltage levels at pins. 10cm cable length	768-1013-ND	21.00	19.50	18.75	US232R-10-BLK
7	Economy version USB to RS232 converter cable. DB9 male for connection to target. RS232 voltage levels at pins. 10cm cable length	768-1014-ND	18.80	17.00	15.50	UC232R-10 "CHIPI"
8	6-Pin, female header, 0.1" spaced 0-3V TTL signals, 5V power TX, RX, VCC (5V), GND, CTS, RTS	768-1015-ND	20.00	18.00	16.50	TTL-232R-3V3
	6 Conductor, stripped and tinned 0-3V TTL signals, 5V power TX, RX, VCC (5V), GND, CTS, RTS	768-1016-ND	20.00	18.00	16.50	TTL-232R-3V3-WE
	Solder terminals, 6 position 0-5V TTL signals, 5V power TX, RX, VCC (5V), GND, CTS, RTS	768-1017-ND	15.00	13.50	12.38	TTL-232R-PCB
	Solder terminals, 6 position 0-3V TTL signals, 5V power TX, RX, VCC (5V), GND, CTS, RTS	768-1018-ND	15.00	13.50	12.38	TTL-232R-3V3-PCB

MICROCHIP

OTP 8-Bit Microcontrollers

Operating Temperature Range: • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C)

Memory Size		I/O Lines	ADC	Timers/ WDT	Interface	Int. Oscillator (MHz)	Max Speed (MHz)	Operating Temperature	Package	Digi-Key Part No.	Price Each		
EPROM Words	RAM										1	25	100
512 x 12	25 x 8	12	—	1-8bit Yes	—	—	4	Commercial	18-DIP	PIC16HV540-04/P-ND◆	2.53	1.44	1.40
							4	Commercial	18-SOIC	PIC16HV540-04/SO-ND◆	2.55	1.47	1.43
							20	Commercial	18-DIP	PIC16HV540-20/P-ND◆	2.70	1.53	1.49
							20	Commercial	18-SOIC	PIC16HV540-20/SO-ND◆	2.73	1.57	1.52
							4	Industrial	18-DIP	PIC16HV540-04I/P-ND◆	2.53	1.44	1.40
							4	Industrial	18-SOIC	PIC16HV540-04I/SO-ND◆	2.55	1.47	1.43
512 x 12	25 x 8	20	—	1-8bit Yes	—	—	4	Commercial	28-DIP	PIC16C55A-04/P-ND◆	3.08	1.77	1.72
							4	Commercial	28-SOIC	PIC16C55A-04/SO-ND◆	3.20	1.83	1.78
							4	Commercial	28-DIP .3"	PIC16C55A-04/SP-ND◆	3.08	1.77	1.72
							4	Industrial	28-DIP	PIC16C55A-04I/P-ND◆	3.38	1.94	1.88
							4	Industrial	28-SOIC	PIC16C55A-04I/SO-ND◆	3.53	2.02	1.96
							20	Commercial	28-DIP	PIC16C55A-20/P-ND◆	3.43	1.97	1.92
							20	Commercial	28-SOIC	PIC16C55A-20/SO-ND◆	3.58	2.05	1.99
							20	Commercial	28-DIP .3"	PIC16C55A-20/SP-ND◆	3.43	1.97	1.92
							4	Commercial	28-DIP	PIC16LC55A-04/P-ND	3.23	1.84	1.79
							4	Commercial	28-SOIC	PIC16LC55A-04/SO-ND	3.35	1.92	1.87
512 x 14	80 x 8	13	—	1-8bit Yes	—	—	4	Commercial	18-DIP	PIC16C554-04/P-ND◆	4.05	2.60	2.50
							4	Commercial	18-SOIC	PIC16C554-04/SO-ND◆	4.15	2.66	2.55
512 x 14	80 x 8	13	—	1-8bit Yes	—	—	20	Commercial	18-CDIP	PIC16C620A/JW-ND†	13.13	—	6.58
							4	Commercial	18-DIP	PIC16C620A-04/P-ND◆	2.45	1.41	1.37
							4	Commercial	18-SOIC	PIC16C620A-04/SO-ND◆	2.53	1.44	1.40
							4	Industrial	18-DIP	PIC16C620A-04I/P-ND◆	2.45	1.41	1.37
							20	Commercial	18-DIP	PIC16C620A-20/P-ND◆	2.60	1.50	1.46
							20	Commercial	18-SOIC	PIC16C620A-20/SO-ND◆	2.70	1.53	1.49
1K x 12	25 x 8	12	—	1-8bit Yes	—	—	20	Commercial	18-CDIP	PIC16C56A/JW-ND†	15.85	—	7.95
							4	Commercial	18-DIP	PIC16C56A-04/P-ND◆	2.85	1.63	1.58
							4	Commercial	18-SOIC	PIC16C56A-04/SO-ND◆	2.90	1.66	1.61
							4	Industrial	18-DIP	PIC16C56A-04I/P-ND◆	3.10	1.78	1.73
							4	Industrial	18-SOIC	PIC16C56A-04I/SO-ND◆	3.18	1.81	1.76
							20	Commercial	18-DIP	PIC16C56A-20/P-ND◆	3.03	1.74	1.69
							20	Commercial	18-SOIC	PIC16C56A-20/SO-ND◆	3.08	1.77	1.72
							20	Industrial	18-DIP	PIC16C56A-20I/P-ND◆	3.35	1.91	1.85
							20	Industrial	18-SOIC	PIC16C56A-20I/SO-ND	3.40	1.96	1.90
							4	Commercial	18-DIP	PIC16LC56A-04/P-ND	2.95	1.71	1.66
							4	Commercial	18-SOIC	PIC16LC56A-04/SO-ND	3.03	1.74	1.69
							4	Industrial	18-DIP	PIC16LC56A-04I/P-ND	3.28	1.88	1.82
							4	Industrial	18-SOIC	PIC16LC56A-04I/SO-ND	3.35	1.91	1.85
1K x 14	80 x 8	13	—	1-8bit Yes	—	—	4	Commercial	18-DIP	PIC16C621A-04/P-ND◆	2.75	1.58	1.54
							4	Commercial	18-SOIC	PIC16C621A-04/SO-ND◆	2.80	1.61	1.57
							4	Industrial	18-DIP	PIC16C621A-04I/P-ND◆	3.03	1.74	1.69
							20	Commercial	18-DIP	PIC16C621A-20/P-ND◆	2.95	1.69	1.64
							20	Commercial	18-SOIC	PIC16C621A-20/SO-ND◆	3.00	1.72	1.67
1K x 14	128 x 16	16	8-ch. 8-Bit	2-8bit 1-16bit Yes	—	4	20	Commercial	20-CDIP	PIC16C781/JW-ND	21.90	—	10.98
							20	Industrial	20-DIP	PIC16C781-I/P-ND◆	6.05	3.03	2.92
							20	Industrial	20-SOIC	PIC16C781-I/SO-ND◆	6.15	3.10	2.98
							20	Industrial	20-SSOP	PIC16C781-I/SS-ND◆	6.75	3.39	3.26
2K x 14	128 x 8	12	—	1-8bit Yes	—	—	20	Commercial	20-CDIP	PIC16C432/JW-ND†	19.00	—	9.53
							20	Industrial	20-SSOP	PIC16C432-I/SS-ND	5.70	2.87	2.76
2K x 14	128 x 8	6	4-ch. 8-Bit	1-8bit Yes	—	4	10	Commercial	18-CDIP	PIC16C433/JW-ND†	12.26	—	10.29
							10	Industrial	18-DIP	PIC16C433-I/P-ND	5.33	2.69	2.59
							10	Industrial	18-SOIC	PIC16C433-I/SO-ND	5.33	2.69	2.59
2K x 14	128 x 8	22	—	2-8bit 1-16bit Yes	SSP (2MI^{2}C, SPI)	—	4	Commercial	28-DIP .3"	PIC16C62B-04/SP-ND◆	4.80	2.75	2.68
							4	Commercial	28-SOIC	PIC16C62B-04/SO-ND◆	4.80	2.75	2.68
							4	Commercial	28-SSOP	PIC16C62B-04/SS-ND◆	5.08	2.91	2.83
							4	Industrial	28-DIP .3"	PIC16C62B-04I/SP-ND◆	5.30	3.03	2.95
							20	Commercial	28-DIP .3"	PIC16C62B-20/SP-ND◆	5.13	2.94	2.86
							20	Commercial	28-SOIC	PIC16C62B-20/SO-ND◆	5.13	2.94	2.86
							20	Commercial	28-SSOP	PIC16C62B-20/SS-ND◆	5.43	3.10	3.01
							20	Industrial	28-DIP .3"	PIC16C62B-20I/SP-ND◆	5.65	3.24	3.15
2K x 14	128 x 8	13	—	1-8bit Yes	—	—	4	Commercial	18-DIP	PIC16C622A-04/P-ND◆	3.10	1.78	1.73
							4	Commercial	18-SOIC	PIC16C622A-04/SO-ND◆	3.18	1.81	1.76
							4	Industrial	18-DIP	PIC16C622A-04I/P-ND◆	3.40	1.96	1.90
							20	Commercial	18-DIP	PIC16C622A-20/P-ND◆	3.35	1.91	1.85
							20	Commercial	18-SOIC	PIC16C622A-20/SO-ND◆	3.38	1.94	1.88
							20	Industrial	18-DIP	PIC16C622A-20I/P-ND◆	3.65	2.10	2.04
							20	Industrial	18-SOIC	PIC16C622A-20I/SO-ND◆	3.73	2.13	2.07

◆ ***RoHS Compliant*** † UVEPROM

(Continued)

OTP 8-Bit Microcontrollers *(Cont.)*

Operating Temperature Range: • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C)

Memory Size		I/O Lines	ADC	Timers/ WDT	Interface	Int. Oscillator (MHz)	Max Speed (MHz)	Operating Temperature	Package	Digi-Key Part No.	Price Each		
EPROM Words	RAM										1	25	100
2K x 14	128 x 8	13	—	1-8bit Yes	—	—	20	Commercial	18-CDip	PIC16C558/JW-ND†	17.68	—	8.86
							4	Commercial	18-DIP	PIC16C558-04/P-ND◆	5.33	3.41	3.27
							4	Commercial	18-SOIC	PIC16C558-04/SO-ND◆	5.45	3.48	3.34
4K x 14	192 x 8	22	—	2-8bit 1-16bit Yes	USART, SSP (2MI^{2}C, SPI)	—	4	Commercial	28-DIP .3"	PIC16C63A-04/SP-ND◆	5.85	3.36	3.27
							4	Commercial	28-SOIC	PIC16C63A-04/SO-ND◆	5.85	3.36	3.27
							4	Commercial	28-SSOP	PIC16C63A-04/SS-ND◆	6.13	3.52	3.42
							4	Industrial	28-DIP .3"	PIC16C63A-04I/SP-ND◆	6.48	3.70	3.60
							4	Industrial	28-SOIC	PIC16C63A-04I/SO-ND◆	6.48	3.70	3.60
							4	Industrial	28-SSOP	PIC16C63A-04I/SS-ND◆	6.75	3.88	3.77
							20	Commercial	28-DIP .3"	PIC16C63A-20/SP-ND◆	6.30	3.61	3.51
							20	Commercial	28-SOIC	PIC16C63A-20/SO-ND◆	6.30	3.61	3.51
							20	Commercial	28-SSOP	PIC16C63A-20/SS-ND◆	6.58	3.77	3.66
							20	Industrial	28-DIP .3"	PIC16C63A-20I/SP-ND◆	6.93	3.97	3.86
							20	Industrial	28-SOIC	PIC16C63A-20I/SO-ND◆	6.93	3.97	3.86
							20	Industrial	28-SSOP	PIC16C63A-20I/SS-ND◆	7.23	4.14	4.03
4K x 14	192 x 8	33	—	2-8bit 1-16bit Yes	USART, SSP (2MI^{2}C, SPI)	—	4	Commercial	40-DIP	PIC16C65B-04/P-ND◆	6.58	3.77	3.66
							4	Commercial	44-PLCC	PIC16C65B-04/L-ND◆	7.63	5.30	4.93
							4	Industrial	40-DIP	PIC16C65B-04I/P-ND◆	7.28	4.16	4.04
							20	Commercial	40-DIP	PIC16C65B-20/P-ND◆	7.05	4.03	3.92
							20	Commercial	44-PLCC	PIC16C65B-20/L-ND◆	8.10	5.62	5.23
							20	Industrial	40-DIP	PIC16C65B-20I/P-ND◆	7.75	4.44	4.32
							20	Industrial	44-PLCC	PIC16C65B-20I/L-ND◆	8.83	6.11	5.68
4K x 14	256	15	6-ch. 12-Bit	2-8bit 1-16bit Yes	SSP (MI^{2}C, SPI)	4	20	Commercial	20-CDIP	PIC16C771/JW-ND†	18.55	—	9.29
4K x 14	256 x 8	22	6-ch. 12-Bit	2-8bit 1-16bit Yes	AUSART, SSP (MI$_2$C, SPI)	—	20	Commercial	28-DIP .3"	PIC16C773/SP-ND◆	7.38	4.22	4.10
							20	Commercial	28-SOIC	PIC16C773/SO-ND◆	7.38	4.22	4.10
							20	Industrial	28-DIP .3"	PIC16C773-I/SP-ND◆	8.10	4.64	4.51
							20	Industrial	28-SOIC	PIC16C773-I/SO-ND◆	8.10	4.64	4.51
							20	Commercial	28-DIP .3"	PIC16LC773/SP-ND◆	7.75	4.44	4.32
							20	Commercial	28-SOIC	PIC16LC773/SO-ND◆	7.75	4.44	4.32
4K x 14	256 x 8	33	10-ch. 12-Bit	2-8bit 1-16bit Yes	AUSART, SSP (MI^{2}C, SPI)	—	20	Commercial	40-CDIP	PIC16C774/JW-ND†	26.38	—	14.41
							20	Commercial	40-DIP	PIC16C774/P-ND◆	8.95	5.11	4.97
							20	Commercial	44-PLCC	PIC16C774/L-ND◆	9.65	6.19	5.94
							20	Industrial	40-DIP	PIC16C774-I/P-ND◆	9.85	5.64	5.49
							20	Industrial	44-PLCC	PIC16C774-I/L-ND◆	10.53	6.75	6.48
							20	Commercial	40-DIP	PIC16LC774/P-ND◆	9.38	5.38	5.23
							20	Commercial	44-PLCC	PIC16LC774/L-ND◆	10.13	6.48	6.23
8K x 14	256 x 8	22	5-ch. 8-Bit	1-16bit Yes	USART	—	20	Industrial	28-DIP .3"	PIC16C745-I/SP-ND◆	5.93	2.97	2.86
							20	Industrial	28-SOIC	PIC16C745-I/SO-ND◆	5.93	2.97	2.86
8K x 14	256 x 8	33	8-ch. 8-Bit	2-8bit 1-16bit Yes	USART	—	20	Commercial	40-CDIP	PIC16C765/JW-ND†	22.00	—	12.01
							20	Industrial	44-PLCC	PIC16C765-I/L-ND◆	7.43	4.25	4.13
							20	Industrial	40-DIP	PIC16C765-I/P-ND◆	7.08	3.55	—
							20	Industrial	44-TQFP	PIC16C765-I/PT-ND◆	8.15	4.08	—

◆ ***RoHS Compliant*** † UVEPROM

Microcontrollers

PIC18Cs

Program Memory Type	Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C	SPI	CAN	PWM	A/D	Analog Comp.	Int Osc	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
	Program Bytes	RAM Bytes	EEPROM Bytes																1	25	100
ROMless	—	1536	—	26	1/3	1 (USART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	—	—	25	4.2 ~ 5.5	Industrial	68-PLCC	PIC18C601-I/L-ND◆	6.63	4.25	4.08
																	64-TQFP	PIC18C601-I/PT-ND◆	6.08	3.88	3.73
ROMless	—	1536	—	37	1/3	1 (USART)	1 (Master/ Slave)	1	—	2	12-ch. 10-bit	—	—	25	4.2 ~ 5.5	Industrial	84-PLCC	PIC18C801-I/L-ND	8.15	5.21	5.00
																	80-TQFP	PIC18C801-I/PT-ND◆	7.35	4.70	4.51
PROM	16K x 16	1536	—	52	1/3	1 (USART)	1 (Master/ Slave)	1	Y (CAN 2.0B)	2	12-ch. 10-bit	2	—	40	4.2 ~ 5.5	Industrial	68-PLCC	PIC18C658-I/L-ND◆	15.83	9.07	8.82
																	64-TQFP	PIC18C658-I/PT-ND◆	15.15	8.69	8.45

◆ ***RoHS Compliant***

8-bit PIC ***Flash*** Microcontrollers

General Purpose

PIC10F Devices

Memory Size			I/O Pins	Timer/ Counters 8-bit	UART	I^2C™	SPI™	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each			Tape and Reel Pricing‡ 3,000
Program Words	RAM Bytes	EEPROM Bytes														1	25	100	
256 x 12	16	—	4	1	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-DFN 8-DIP SOT23-6	PIC10F200-I/MC-ND PIC10F200-I/P-ND PIC10F200T-I/OTCT-ND	1.05 1.00 1.04	.54 .52 .93	.52 .50 .84	— — 460.00/M
	16	—	4	1	—	—	—	—	1	4MHz	4	2.0 ~ 5.5	Ind.	8-DFN 8-DIP SOT-23-6	PIC10F204-I/MC-ND PIC10F204-I/P-ND PIC10F204T-I/OTCT-ND	1.13 1.08 1.12	.57 .55 1.00	.56 .54 .90	— — 500.00/M
	16	—	4	1	—	—	—	2-ch. 8-bit	—	8MHz	8	2.0 ~ 5.5	Ind.	8-DFN 8-DIP SOT-23-6	PIC10F220-I/MC-ND PIC10F220-I/P-ND PIC10F220T-I/OTCT-ND	1.18 1.13 1.18	.61 .58 1.05	.59 .57 .95	— — 530.00/M
512 x 12	24	—	4	1	—	—	—	—	1	4MHz	4	2.0 ~ 5.5	Ind.	8-DFN 8-DIP SOT23-6	PIC10F202-I/MC-ND PIC10F202-I/P-ND PIC10F202T-I/OTCT-ND	1.13 1.08 1.12	.57 .55 1.00	.56 .54 .90	— — 500.00/M
	24	—	4	1	—	—	—	—	1	4MHz	4	2.0 ~ 5.5	Ind.	8-DFN 8-DIP SOT23-6	PIC10F206-I/MC-ND PIC10F206-I/P-ND PIC10F206T-I/OTCT-ND	1.18 1.13 1.18	.61 .58 1.05	.59 .57 .95	— — 530.00/M
	23	—	4	1	—	—	—	2-ch. 8-bit	—	8MHz	8	2.0 ~ 5.5	Ind.	8-DFN 8-DIP SOT-23-6	PIC10F222-I/MC-ND PIC10F222-I/P-ND PIC10F222T-I/OTCT-ND	1.23 1.20 1.26	.63 .62 1.13	.62 .60 1.02	— — 560.00/M

‡ For Tape and Reel part number, change CT-ND to TR-ND.

PIC12F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
512 x 12	25	—	6	1/—	—	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-DFN 8-DIP 8-SOIC 8-MSOP	PIC12F508-I/MC-ND PIC12F508-I/P-ND PIC12F508-I/SN-ND PIC12F508-I/MS-ND	1.25 1.20 1.13 1.28	.65 .62 .59 .65	.63 .60 .57 .64
1K x 12	41	—	6	1/—	—	—	—	—	—	—	4MHz	4	2.0 ~ 5.5	Ind.	8-DFN 8-DIP 8-SOIC 8-SOIC 8-MSOP	PIC12F509-I/MC-ND PIC12F509-I/P-ND PIC12F509-I/SM-ND PIC12F509-I/SN-ND PIC12F509-I/MS-ND	1.33 1.28 1.20 1.20 1.33	.69 .65 .62 .62 .69	.67 .64 .60 .60 .67
	41	64	6	1/—	—	—	—	—	—	—	4MHz, 8MHz	8	2.0 ~ 5.5	Ind.	8-DFN 8-MSOP 8-DIP 8-SOIC	PIC12F519-I/MC-ND ***NEW!*** PIC12F519-I/MS-ND ***NEW!*** PIC12F519-I/P-ND PIC12F519-I/SN-ND ***NEW!***	1.48 1.50 1.50 1.35	.75 .77 .77 .69	.74 .75 .75 .67
	41	64	6	1/—	—	—	—	—	—	—	4MHz, 8MHz	8	2.0 ~ 5.5	Ext.	8-DFN 8-MSOP	PIC12F519-E/MC-ND ***NEW!*** PIC12F519-E/MS-ND ***NEW!***	1.60 1.65	.82 .84	.80 .82
1K x 14	38	—	6	1/—	—	—	—	—	3-ch. 8-bit	1	4MHz, 8MHz	8	2.0 ~ 5.5	Ind.	8-DFN 8-MSOP 8-DIP 8-SOIC	PIC12F510-I/MC-ND PIC12F510-I/MS-ND PIC12F510-I/P-ND PIC12F510-I/SN-ND	1.33 1.33 1.25 1.20	.76 .75 .72 .69	.74 .74 .70 .67
	64	—	6	1/1	—	—	—	—	—	—	8MHz	20	2.0 ~ 5.5	Ind.	8-DFN 8-MSOP 8-DIP 8-SOIC	PIC12F609-I/MD-ND PIC12F609-I/MS-ND ***NEW!*** PIC12F609-I/P-ND PIC12F609-I/SN-ND	1.68 1.58 1.60 1.45	.86 .81 .82 .74	.84 .79 .80 .72
	64	—	6	1/1	—	—	—	—	—	—	8MHz	20	User Defined	Ind.	8-MSOP 8-DIP 8-SOIC	PIC12HV609-I/MS-ND ***NEW!*** PIC12HV609-I/P-ND PIC12HV609-I/SN-ND	1.53 1.70 1.53	.87 .87 .79	.85 .85 .77
	64	—	6	2/1	—	—	—	—	4-ch. 10-bit	1	8MHz	20	2.0 ~ 5.5	Ind.	8-DFN 8-MSOP 8-DIP 8-SOIC	PIC12F615-I/MD-ND PIC12F615-I/MS-ND PIC12F615-I/P-ND PIC12F615-I/SN-ND	1.60 1.53 1.50 1.43	.92 .89 .85 .82	.90 .86 .83 .80
	64	—	6	2/1	—	—	—	—	4-ch. 10-bit	1	8MHz	20	User Defined	Ind.	8-DIP 8-SOIC	PIC12HV615-I/P-ND PIC12HV615-I/SN-ND	1.58 1.50	.90 .87	.88 .85
	64	128	6	1/1	—	—	—	—	—	1	4MHz	20	2.0 ~ 5.5	Ind.	8-DFN 8-DFN 8-DIP 8-SOIC	PIC12F629-I/MD-ND PIC12F629-I/MF-ND PIC12F629-I/P-ND PIC12F629-I/SN-ND	2.05 1.83 1.75 1.60	1.33 .94 .90 .82	1.29 .92 .88 .80
	64	128	6	1/1	—	—	—	—	—	1	4MHz	20	2.0 ~ 5.5	Ext.	8-DFN 8-DIP 8-SOIC	PIC12F629-E/MF-ND PIC12F629-E/P-ND PIC12F629-E/SN-ND	2.00 1.93 1.75	1.03 .98 .90	1.00 .96 .88
	64	128	6	1/1	—	—	—	—	—	1	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	8-DFN 8-DFN 8-DIP 8-SOIC	PIC12F635-I/MD-ND PIC12F635-I/MF-ND PIC12F635-I/P-ND PIC12F635-I/SN-ND	2.15 2.15 2.08 1.93	1.11 1.11 1.07 .98	1.08 1.08 1.04 .96
	64	128	6	1/1	—	—	—	—	4-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ind.	8-DFN 8-DFN 8-DIP 8-SOIC	PIC12F675-I/MD-ND PIC12F675-I/MF-ND PIC12F675-I/P-ND PIC12F675-I/SN-ND	2.53 2.00 1.93 1.75	1.63 1.03 .98 .90	1.58 1.00 .96 .88
	64	128	6	1/1	—	—	—	—	4-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ext.	8-DFN 8-DIP 8-SOIC	PIC12F675-E/MF-ND PIC12F675-E/P-ND PIC12F675-E/SN-ND	2.18 2.10 1.93	1.12 1.07 .99	1.09 1.05 .97

PIC16F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
512 x 12	25	—	12	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	18-DIP 18-SOIC 20-SSOP	PIC16F54-I/P-ND◆ PIC16F54-I/SO-ND◆ PIC16F54-I/SS-ND◆	1.00 .88 .88	.54 .47 .47	.52 .46 .46
512 x 14	36	64	13	1/—	—	—	—	—	—	—	—	4	2.0 ~ 6.0	Com. Ind. Com.	18-DIP 18-DIP 18-SOIC	PIC16LF83-04/P-ND◆ PIC16LF83-04I/P-ND◆ PIC16LF83-04/SO-ND	6.78 7.43 6.90	4.05 4.44 4.11	3.98 4.36 4.04
1K x 12	72	—	12	1/—	—	—	—	—	—	—	4MHz	20	4.5 ~ 5.5	Ind.	14-DIP 14-SOIC 14-TSSOP	PIC16F505-I/P-ND◆ PIC16F505-I/SL-ND◆ PIC16F505-I/ST-ND◆	1.53 1.35 1.60	.79 .69 .82	.77 .67 .80
1K x 14	67	—	12	1/—	—	—	—	—	3-ch. 8-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-DIP 14-SOIC 14-TSSOP	PIC16F506-I/P-ND◆ PIC16F506-I/SL-ND◆ PIC16F506-I/ST-ND◆	1.45 1.28 1.50	.84 .74 .87	.82 .72 .85

◆ *RoHS Compliant* ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) *(Continued)*

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

MICROCHIP

8-bit *Flash* Microcontrollers

General Purpose PIC16F Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
1K x 14	64	—	12	1/1	—	—	—	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	14-QFN	PIC16F610-I/ML-ND◆	1.88	.98	.95
															14-DIP	PIC16F610-I/P-ND◆	1.88	.98	.95
															14-SOIC	PIC16F610-I/SL-ND◆	1.63	.85	.83
															14-TSSOP	PIC16F610-I/ST-ND◆	1.95	1.02	.99
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F627A-I/ML-ND	3.53	1.77	1.70
															18-DIP	PIC16F627A-I/P-ND◆	2.95	1.48	1.42
															18-SOIC	PIC16F627A-I/SO-ND◆	3.00	1.51	1.45
															20-SSOP	PIC16F627A-I/SS-ND◆	3.23	1.63	1.57
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF627A-I/ML-ND◆	3.60	1.82	1.75
															18-DIP	PIC16LF627A-I/P-ND◆	3.08	1.55	1.49
															18-SOIC	PIC16LF627A-I/SO-ND◆	3.18	1.59	1.53
															20-SSOP	PIC16LF627A-I/SS-ND◆	3.40	1.72	1.65
	64	128	12	1/1	—	—	—	—	—	1	4MHz	20	4.5 ~ 5.5	Ind.	14-QFN	PIC16F630-I/ML-ND◆	2.33	1.19	1.16
															14-DIP	PIC16F630-I/P-ND◆	2.15	1.19	1.16
															14-SOIC	PIC16F630-I/SL-ND◆	2.08	1.07	1.04
															14-TSSOP	PIC16F630-I/ST-ND◆	2.40	1.23	1.20
	64	128	18	1/1	—	1	1	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	20-QFN	PIC16F631-I/ML-ND◆	2.20	1.27	1.24
															20-DIP	PIC16F631-I/P-ND◆	2.00	1.31	1.28
															20-SOIC	PIC16F631-I/SO-ND◆	2.18	1.27	1.24
															20-SSOP	PIC16F631-I/SS-ND◆	2.00	1.07	1.04
	64	128	12	1/1	—	—	—	—	8-ch. 10-bit	1	4MHz	20	2.0 ~ 5.5	Ind.	14-QFN	PIC16F676-I/ML-ND◆	2.48	1.27	1.24
															14-DIP	PIC16F676-I/P-ND◆	2.48	1.27	1.24
															14-SOIC	PIC16F676-I/SL-ND◆	2.23	1.15	1.12
															14-TSSOP	PIC16F676-I/ST-ND◆	2.55	1.31	1.28
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F818-I/ML-ND◆	4.25	2.14	2.06
															18-DIP	PIC16F818-I/P-ND◆	3.55	1.78	1.71
															18-SOIC	PIC16F818-I/SO-ND◆	3.60	1.81	1.74
															20-SSOP	PIC16F818-I/SS-ND◆	3.90	1.96	1.89
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF818-I/ML-ND◆	4.28	2.15	2.07
															18-DIP	PIC16LF818-I/P-ND◆	3.73	1.86	1.79
															18-SOIC	PIC16LF818-I/SO-ND◆	3.80	1.90	1.83
															20-SSOP	PIC16LF818-I/SS-ND◆	4.13	2.06	1.98
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Com.	18-DIP	PIC16F84A-04/P-ND◆	6.13	3.52	3.42
														Ind.	18-DIP	PIC16F84A-04I/P-ND◆	6.75	3.86	3.75
														Com.	18-SOIC	PIC16F84A-04/SO-ND◆	6.25	3.58	3.48
														Ind.	18-SOIC	PIC16F84A-04I/SO-ND◆	6.88	3.93	3.82
														Com.	20-SSOP	PIC16F84A-04/SS-ND◆	6.65	3.82	3.71
														Ind.	20-SSOP	PIC16F84A-04I/SS-ND◆	7.28	4.18	4.06
	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Com.	18-DIP	PIC16LF84A-04/P-ND◆	6.45	3.69	3.59
														Ind.	18-DIP	PIC16LF84A-04I/P-ND◆	7.05	4.03	3.92
														Com.	18-SOIC	PIC16LF84A-04/SO-ND◆	6.55	3.75	3.65
														Ind.	18-SOIC	PIC16LF84A-04I/SO-ND◆	7.18	4.11	4.00
														Com.	20-SSOP	PIC16LF84A-04/SS-ND◆	6.98	4.00	3.89
														Ind.	20-SSOP	PIC16LF84A-04I/SS-ND◆	7.58	4.35	4.23
	68	64	13	1/1	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Com.	18-DIP	PIC16F84A-20/P-ND◆	6.55	3.75	3.65
														Ind.	18-DIP	PIC16F84A-20I/P-ND◆	7.20	4.13	4.01
														Com.	18-SOIC	PIC16F84A-20/SO-ND◆	6.65	3.82	3.71
														Ind.	18-SOIC	PIC16F84A-20I/SO-ND◆	7.30	4.19	4.07
														Com.	20-SSOP	PIC16F84A-20/SS-ND◆	7.10	4.06	3.95
														Ind.	20-SSOP	PIC16F84A-20I/SS-ND◆	7.73	4.42	4.30
	64	—	12	1/1	—	—	—	—	—	2	8MHz	20	User Defined	Ind.	14-DIP	PIC16HV610-I/P-ND◆	2.10	1.07	1.05
															14-SOIC	PIC16HV610-I/SL-ND◆	1.85	.95	.93
2K x 12	72	—	20	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	28-DIP	PIC16F57-I/P-ND◆	1.55	.83	.81
															28-SOIC	PIC16F57-I/SO-ND◆	1.23	.67	.65
															28-DIP .3"	PIC16F57-I/SP-ND◆	1.55	.83	.81
															28-SSOP	PIC16F57-I/SS-ND◆	1.18	.63	.62
	134	—	32	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	40-Dip	PIC16F59-I/P-ND◆	1.95	1.00	.98
															44-TQFP	PIC16F59-I/PT-ND◆	1.98	1.02	.99
2K x 14	128	—	12	2/1	—	—	—	—	8-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	16-QFN	PIC16F616-I/ML-ND◆	1.88	1.10	1.07
															14-DIP	PIC16F616-I/P-ND◆	1.78	1.03	1.01
															14-TSSOP	PIC16F616-I/ST-ND◆	1.80	1.07	1.04
															1 4-SOIC	PIC16F616-I/SL-ND◆	1.60	.93	.91
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F628A-I/ML-ND◆	3.88	2.04	2.00
															18-DIP	PIC16F628A-I/P-ND◆	3.35	1.67	1.61
															18-SOIC	PIC16F628A-I/SO-ND◆	3.40	1.72	1.65
															20-SSOP	PIC16F628A-I/SS-ND◆	3.70	1.85	1.78
	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF628A-I/ML-ND	4.05	2.14	2.10
															18-DIP	PIC16LF628A-I/P-ND◆	3.53	1.77	1.70
															18-SOIC	PIC16LF628A-I/SO-ND◆	3.58	1.80	1.73
															20-SSOP	PIC16LF628A-I/SS-ND◆	3.85	1.93	1.86
	128	256	12	1/1	—	—	—	—	—	2	8MHz	20	2.0 ~ 5.5	Ind.	14-QFN	PIC16F636-I/ML-ND◆	2.33	1.21	1.18
															14-DIP	PIC16F636-I/P-ND◆	2.33	1.21	1.18
															14-TSSOP	PIC16F636-I/ST-ND◆	2.40	1.25	1.22
	128	256	12	1/1	—	—	—	—	—	2	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	20-SSOP	PIC16F639-I/SS-ND◆	4.45	2.49	2.46
	128	256	18	1/1	—	—	—	—	12-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	20-QFN	PIC16F677-I/ML-ND◆	2.20	1.38	1.34
															20-DIP	PIC16F677-I/P-ND◆	2.00	1.42	1.38
															20-SOIC	PIC16F677-I/SO-ND◆	2.15	1.38	1.34
															20-SOIC	PIC16F677-I/SS-ND◆	2.00	1.17	1.14
	128	256	12	2/1	—	—	—	4	8-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	16-QFN	PIC16F684-I/ML-ND◆	2.45	1.28	1.25
															14-DIP	PIC16F684-I/P-ND◆	2.45	1.28	1.25
															14-SOIC	PIC16F684-I/SL-ND◆	2.23	1.16	1.13
															14-TSSOP	PIC16F684-I/ST-ND◆	2.55	1.32	1.29
	128	256	18	1/1	1 (EUSART)	1	1	—	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F687-I/ML-ND◆	2.83	1.47	1.43
															20-DIP	PIC16F687-I/P-ND◆	2.58	1.51	1.47
															20-SOIC	PIC16F687-I/SO-ND◆	2.83	1.47	1.43
															20-SSOP	PIC16F687-I/SS-ND◆	2.43	1.26	1.23
	128	—	13	2/1	—	—	—	1	4-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	18-DIP	PIC16F716-I/P-ND◆	1.93	.98	.96
															18-SOIC	PIC16F716-I/SO-ND◆	1.75	.90	.88
															20-SSOP	PIC16F716-I/SS-ND◆	2.80	1.61	1.57
	128	—	22	2/1	—	1	1	1	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-DIP .3"	PIC16F72-I/SP-ND◆	3.75	2.16	2.10
															28-SOIC	PIC16F72-I/SO-ND◆	3.75	2.16	2.10
															28-SSOP	PIC16F72-I/SS-ND◆	3.93	2.25	2.19
															28-QFN	PIC16F72-I/ML-ND◆	3.75	2.16	2.10
	128	—	22	2/1	—	1	1	1	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF72-I/ML-ND	3.98	2.27	2.20
															28-SOIC	PIC16LF72-I/SO-ND◆	3.98	2.27	2.20
															28-DIP .3"	PIC16LF72-I/SP-ND◆	3.98	2.27	2.20
															28-SSOP	PIC16LF72-I/SS-ND◆	4.13	2.36	2.30
	128	256	18	2/1	—	—	—	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F785-I/ML-ND◆	2.95	1.52	1.48
															20-DIP	PIC16F785-I/P-ND◆	3.03	1.56	1.52
															20-SOIC	PIC16F785-I/SO-ND◆	2.95	1.52	1.48
															20-SSOP	PIC16F785-I/SS-ND◆	2.55	1.31	1.28
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F819-I/ML-ND◆	4.80	2.40	2.31
															18-DIP	PIC16F819-I/P-ND◆	4.03	2.03	1.95

◆ *RoHS Compliant* *Note:* **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) *(Continued)*

8-bit ***Flash*** Microcontrollers

General Purpose **PIC16F Devices** *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
2K x 14	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	4.0 ~ 5.5	Ind.	18-SOIC	PIC16F819-I/SO-ND◆	4.13	2.06	1.98
															20-SSOP	PIC16F819-I/SS-ND◆	4.40	2.22	2.14
	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	8MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF819-I/ML-ND◆	4.80	2.40	2.31
															18-DIP	PIC16LF819-I/P-ND◆	4.23	2.12	2.04
															18-SOIC	PIC16LF819-I/SO-ND◆	4.33	2.16	2.08
															20-SSOP	PIC16LF819-I/SS-ND◆	4.65	2.33	2.24
	128	64	22	2/1	1 (AUSART)	—	—	1	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F870-I/SO-ND◆	5.05	2.89	2.81
															28-DIP .3”	PIC16F870-I/SP-ND◆	5.05	2.89	2.81
															28-SSOP	PIC16F870-I/SS-ND◆	5.20	2.99	2.90
	128	64	22	2/1	1 (AUSART)	—	—	1	5-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF870-I/SO-ND◆	5.33	3.05	2.96
															28-DIP .3”	PIC16LF870-I/SP-ND◆	5.33	3.05	2.96
															28-SSOP	PIC16LF870-I/SS-ND◆	5.45	3.13	3.04
	128	64	33	2/1	1 (AUSART)	—	—	1	8-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F871-I/L-ND◆	6.70	4.28	4.11
															40-DIP	PIC16F871-I/P-ND◆	5.98	3.14	3.08
	128	64	33	2/1	1 (AUSART)	—	—	1	8-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF871-I/L-ND	7.05	4.51	4.33
															40-DIP	PIC16LF871-I/P-ND◆	6.28	3.29	3.23
															44-TQFP	PIC16LF871-I/PT-ND◆	8.45	4.44	4.36
	128	64	22	2/1	—	1 MI^{2}C	1	1	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F872-I/SO-ND◆	5.05	2.89	2.81
															28-DIP .3”	PIC16F872-I/SP-ND◆	5.05	2.89	2.81
															28-SSOP	PIC16F872-I/SS-ND◆	5.20	2.99	2.90
	128	64	22	2/1	—	1 MI^{2}C	1	1	5-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF872-I/SO-ND◆	5.33	3.05	2.96
															28-DIP .3”	PIC16LF872-I/SP-ND◆	5.33	3.05	2.96
															28-SSOP	PIC16LF872-I/SS-ND◆	5.45	3.13	3.04
	128	128	25	2/1	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	—	11-ch. 10-bit	—	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16F882-I/ML-ND◆ ***NEW!***	3.20	1.66	1.62
															28-DIP	PIC16F882-I/SP-ND◆ ***NEW!***	3.10	1.62	1.58
															28-SSOP	PIC16F882-I/SS-ND◆ ***NEW!***	2.63	1.38	1.34
	128	128	25	2/1	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	—	11-ch. 10-bit	—	8MHz, 32kHz	20	2.0 ~ 5.5	Ext.	28-SOIC	PIC16F882-E/SO-ND◆ ***NEW!***	3.10	1.61	1.57
	128	—	12	2/1	—	—	—	—	8-ch. 10-bit	2	8MHz	20	User Defined	Ind.	14-DIP	PIC16HV616-I/P-ND◆	1.98	1.13	1.10
															14-SOIC	PIC16HV616-I/SL-ND◆	1.80	1.03	1.01
	128	128	25	2/1	1 (EUSART)	1 MI^{2}C	1	1	11-ch. 10-bit	2	8MHz, 32KHz	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16F882-I/SO-ND◆	2.80	1.46	1.42
4K x 14	256	256	16	2/1	1 (AUSART)	—	—	1	—	2	4MHz	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F648A-I/ML-ND◆	4.35	2.18	2.10
															18-DIP	PIC16F648A-I/P-ND◆	3.80	1.90	1.83
															18-SOIC	PIC16F648A-I/SO-ND◆	3.88	1.95	1.87
															20-SSOP	PIC16F648A-I/SS-ND◆	4.18	2.10	2.02
	256	256	18	2/1	—	—	—	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F685-I/ML-ND◆	2.98	1.54	1.50
															20-DIP	PIC16F685-I/P-ND◆	2.88	1.58	1.54
															20-SOIC	PIC16F685-I/SO-ND◆	2.98	1.54	1.50
															20-SSOP	PIC16F685-I/SS-ND◆	2.58	1.33	1.30
	256	256	12	1/1	1 (EUSART)	—	—	—	8-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	14-QFN	PIC16F688-I/ML-ND◆	2.60	1.36	1.32
															14-DIP	PIC16F688-I/P-ND◆	2.60	1.36	1.32
															14-SOIC	PIC16F688-I/SL-ND◆	2.35	1.23	1.20
															14-TSSOP	PIC16F688-I/ST-ND◆	2.68	1.40	1.36
	256	256	18	1/1	1 (EUSART)	1	1	—	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F689-I/ML-ND◆	2.98	1.54	1.50
															20-DIP	PIC16F689-I/P-ND◆	2.88	1.58	1.54
															20-SOIC	PIC16F689-I/SO-ND◆	2.98	1.54	1.50
															20-SSOP	PIC16F689-I/SS-ND◆	2.58	1.33	1.30
	256	256	18	2/1	1 (EUSART)	1	1	1	12-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F690-I/ML-ND◆	3.13	1.62	1.58
															20-DIP	PIC16F690-I/P-ND◆	3.05	1.66	1.62
															20-SOIC	PIC16F690-I/SO-ND◆	3.13	1.62	1.58
															20-SSOP	PIC16F690-I/SS-ND ◆	2.73	1.42	1.38
	192	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F73-I/ML-ND◆	5.85	3.36	3.27
															28-SOIC	PIC16F73-I/SO-ND◆	5.85	3.36	3.27
															28-DIP .3”	PIC16F73-I/SP-ND◆	5.85	3.36	3.27
															28-SSOP	PIC16F73-I/SS-ND◆	6.05	3.46	3.36
	192	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF73-I/ML-ND◆	6.15	3.54	3.44
															28-SOIC	PIC16LF73-I/SO-ND◆	6.15	3.54	3.44
															28-DIP .3”	PIC16LF73-I/SP-ND◆	6.15	3.54	3.44
															28-SSOP	PIC16LF73-I/SS-ND◆	6.33	3.63	3.53
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F737-I/ML-ND◆	7.18	3.77	3.70
															28-SOIC	PIC16F737-I/SO-ND◆	6.63	3.48	3.42
															28-DIP .3”	PIC16F737-I/SP-ND◆	6.50	3.41	3.35
															28-SSOP	PIC16F737-I/SS-ND◆	6.83	3.58	3.52
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF737-I/ML-ND◆	7.53	3.94	3.87
															28-SOIC	PIC16LF737-I/SO-ND◆	7.28	3.82	3.75
															28-DIP .3”	PIC16LF737-I/SP-ND	7.15	3.75	3.68
															28-SSOP	PIC16LF737-I/SS-ND◆	7.38	3.87	3.80
	192	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F74-I/L-ND◆	7.98	4.75	4.66
															44-QFN	PIC16F74-I/ML-ND	8.88	5.10	4.96
															40-DIP	PIC16F74-I/P-ND◆	7.13	4.08	3.97
															44-TQFP	PIC16F74-I/PT-ND◆	8.55	4.89	4.76
	192	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF74-I/L-ND◆	8.38	4.99	4.90
															44-QFN	PIC16LF74-I/ML-ND	9.30	5.33	5.18
															40-DIP	PIC16LF74-I/P-ND	7.48	4.28	4.16
															44-TQFP	PIC16LF74-I/PT-ND◆	9.00	5.14	5.00
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	40-QFN	PIC16F747-I/ML-ND◆	8.00	4.20	4.12
															40-DIP	PIC16F747-I/P-ND◆	7.48	3.92	3.85
															44-TQFP	PIC16F747-I/PT-ND◆	7.60	3.99	3.92
	368	—	36	2/1	1 (AUSART)	1 MI2C	1	2	14-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	40-DIP	PIC16LF747-I/P-ND	8.20	4.31	4.23
															44-TQFP	PIC16LF747-I/PT-ND◆	8.38	4.40	4.32
	368	256	16	2/1	1 (AUSART)	—	—	1	—	2	8MHz	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F87-I/ML-ND◆	5.25	2.63	2.53
															18-DIP	PIC16F87-I/P-ND◆	4.65	2.35	2.26
															18-SOIC	PIC16F87-I/SO-ND◆	4.80	2.40	2.31
															20-SSOP	PIC16F87-I/SS-ND◆	5.13	2.58	2.48
	368	256	16	2/1	1 (AUSART)	—	—	1	—	2	8MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF87-I/ML-ND◆	5.48	2.76	2.65
															18-DIP	PIC16LF87-I/P-ND◆	4.90	2.47	2.37
															18-SOIC	PIC16LF87-I/SO-ND◆	5.00	2.51	2.41
															20-SSOP	PIC16LF87-I/SS-ND◆	5.43	2.71	2.61
	192	128	22	2/1	1 (AUSART)	1	1	2	5-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F873A-I/ML-ND◆	7.60	4.36	4.24
															28-SOIC	PIC16F873A-I/SO-ND◆	7.15	4.10	3.98
															28-DIP .3”	PIC16F873A-I/SP-ND◆	7.15	4.10	3.98
															28-SSOP	PIC16F873A-I/SS-ND◆	7.30	4.19	4.07
	192	128	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF873A-I/ML-ND◆	7.98	4.57	4.44
															28-SOIC	PIC16LF873A-I/SO-ND◆	7.53	4.30	4.18
															28-DIP .3”	PIC16LF873A-I/SP-ND◆	7.53	4.30	4.18
															28-SSOP	PIC16LF873A-I/SS-ND◆	7.90	4.52	4.39
	192	128	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F874A-I/L-ND◆	8.75	5.22	5.12
															44-QFN	PIC16F874A-I/ML-ND◆	9.00	5.14	5.00
															40-DIP	PIC16F874A-I/P-ND◆	7.80	4.47	4.35
															44-TQFP	PIC16F874A-I/PT-ND◆	9.00	5.14	5.00
	192	128	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF874A-I/L-ND◆	9.20	5.48	5.38
															40-DIP	PIC16LF874A-I/P-ND◆	8.20	4.71	4.58

◆ ***RoHS Compliant*** ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MICROCHIP

8-bit *Flash* Microcontrollers

General Purpose PIC16F Devices *(Cont.)*

Memory Size																	Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	1	25	100
4K x 14	192	128	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-TQFP	PIC16LF874A-I/PT-ND◆	9.45	5.41	5.26
	368	256	16	2/1	1 (AUSART)	—	1	1	7-ch. 10-bit	2	8MHz	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F88-I/ML-ND◆	5.58	3.19	3.10
															18-DIP	PIC16F88-I/P-ND◆	5.00	2.51	2.41
															18-SOIC	PIC16F88-I/SO-ND◆	5.10	2.57	2.47
															20-SSOP	PIC16F88-I/SS-ND◆	5.48	2.76	2.65
	368	256	16	2/1	1 (AUSART)	—	1	1	7-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF88-I/ML-ND◆	5.85	3.34	3.25
															18-DIP	PIC16LF88-I/P-ND◆	5.25	2.63	2.53
															18-SOIC	PIC16LF88-I/SO-ND◆	5.33	2.69	2.59
															20-SSOP	PIC16LF88-I/SS-ND◆	5.75	2.89	2.78
	256	256	25	2/1	1 (EUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16F883-I/ML-ND◆	3.25	1.98	1.93
															28-SOIC	PIC16F883-I/SO-ND◆	2.73	1.69	1.64
															28-DIP .3”	PIC16F883-I/SP-ND◆	3.03	1.85	1.80
															28-SSOP	PIC16F883-I/SS-ND◆	2.65	1.66	1.61
	256	256	36	2/1	1 (EUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	8MHz	20	2.0 ~5.5	Ind.	44-QFN	PIC16F884-I/ML-ND◆	3.53	2.14	2.08
															40-DIP	PIC16F884-I/P-ND◆	3.20	1.96	1.91
															44-TQFP	PIC16F884-I/PT-ND◆	3.23	1.98	1.92
8K x 14	368	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F76-I/ML-ND	7.38	4.22	4.10
															28-SOIC	PIC16F76-I/SO-ND◆	7.38	4.22	4.10
															28-DIP .3”	PIC16F76-I/SP-ND◆	7.38	4.22	4.10
															28-SSOP	PIC16F76-I/SS-ND◆	7.55	4.32	4.20
	368	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF76-I/ML-ND	7.73	4.42	4.30
															28-SOIC	PIC16LF76-I/SO-ND◆	7.73	4.42	4.30
															28-DIP .3”	PIC16LF76-I/SP-ND◆	7.73	4.42	4.30
															28-SSOP	PIC16LF76-I/SS-ND◆	7.93	4.53	4.41
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F767-I/ML-ND◆	8.33	4.37	4.29
															28-SOIC	PIC16F767-I/SO-ND◆	7.70	4.04	3.97
															28-DIP .3”	PIC16F767-I/SP-ND◆	7.55	3.96	3.89
															28-SSOP	PIC16F767-I/SS-ND◆	7.95	4.17	4.09
	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	4MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF767-I/ML-ND◆	9.08	4.77	4.68
															28-SOIC	PIC16LF767-I/SO-ND◆	8.38	4.40	4.32
															28-DIP .3”	PIC16LF767-I/SP-ND◆	8.33	4.35	4.27
															28-SSOP	PIC16LF767-I/SS-ND◆	8.65	4.54	4.46
	368	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F77-I/L-ND◆	9.13	5.43	5.33
															44-QFN	PIC16F77-I/ML-ND◆	10.13	5.80	5.64
															40-DIP	PIC16F77-I/P-ND◆	8.15	4.66	4.53
	368	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF77-I/L-ND	9.60	5.70	5.60
															44-QFN	PIC16LF77-I/ML-ND	10.58	6.07	5.90
															40-DIP	PIC16LF77-I/P-ND◆	8.55	4.89	4.76
															44-TQFP	PIC16LF77-I/PT-ND◆	10.28	5.88	5.72
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-QFN	PIC16F777-I/ML-ND	8.85	4.65	4.57
															40-DIP	PIC16F777-I/P-ND◆	8.33	4.35	4.27
															44-TQFP	PIC16F777-I/PT-ND◆	8.45	4.44	4.36
	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-QFN	PIC16LF777-I/ML-ND	9.78	5.12	5.03
															40-DIP	PIC16LF777-I/P-ND◆	9.13	4.78	4.70
															44-TQFP	PIC16LF777-I/PT-ND◆	9.30	4.88	4.79
	368	256	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 8-bit	2	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F876A-I/ML-ND◆	7.70	4.41	4.29
															28-SOIC	PIC16F876A-I/SO-ND◆	7.70	4.41	4.29
															28-DIP .3”	PIC16F876A-I/SP-ND◆	7.70	4.41	4.29
															28-SSOP	PIC16F876A-I/SS-ND◆	7.85	4.50	4.38
	368	256	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 8-bit	2	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF876A-I/ML-ND◆	8.08	4.63	4.50
															28-SOIC	PIC16LF876A-I/SO-ND◆	8.08	4.63	4.50
															28-DIP .3”	PIC16LF876A-I/SP-ND◆	8.08	4.63	4.50
															28-SSOP	PIC16LF876A-I/SS-ND◆	8.23	4.72	4.59
	368	256	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F877A-I/L-ND◆	9.40	5.61	5.51
															44-QFN	PIC16F877A-I/ML-ND◆	9.68	5.55	5.40
															40-DIP	PIC16F877A-I/P-ND◆	8.40	4.81	4.68
															44-TQFP	PIC16F877A-I/PT-ND◆	9.68	5.55	5.40
	368	256	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF877A-I/L-ND◆	9.90	5.90	5.80
															44-QFN	PIC16LF877A-I/ML-ND◆	10.15	5.81	5.65
															40-DIP	PIC16LF877A-I/P-ND◆	8.85	5.06	4.92
															44-TQFP	PIC16LF877A-I/PT-ND◆	10.15	5.81	5.65
	368	256	25	2/1	1 (EUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16F886-I/ML-ND◆	3.48	2.13	2.07
															28-SOIC	PIC16F886-I/SO-ND◆	2.98	1.83	1.78
															28-DIP .3”	PIC16F886-I/SP-ND◆	3.25	2.00	1.94
															28-SSOP	PIC16F886-I/SS-ND◆	2.90	1.80	1.75
	368	256	36	2/1	1 (EUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	8MHz	20	2.0 ~ 5.5	Ind.	44-QFN	PIC16F887-I/ML-ND◆	3.80	2.32	2.25
															40-DIP	PIC16F887-I/P-ND◆	3.50	2.14	2.08
															44-TQFP	PIC16F887-I/PT-ND◆	3.55	2.15	2.09

PIC18F Devices

Memory Size																	Price Each		
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	1	25	100
2K x 16	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F1220-I/ML-ND◆	5.05	2.58	2.52
															18-DIP	PIC18F1220-I/P-ND◆	4.65	2.38	2.32
															18-SOIC	PIC18F1220-I/SO-ND◆	4.48	2.30	2.24
															20-SSOP	PIC18F1220-I/SS-ND◆	4.48	2.30	2.24
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	2.5 ~ 5.5	Ind.	28-QFN	PIC18LF1220-I/ML-ND◆	5.28	2.70	2.63
															18-DIP	PIC18LF1220-I/P-ND◆	4.88	2.49	2.43
															18-SOIC	PIC18LF1220-I/SO-ND◆	4.70	2.41	2.35
															20-SSOP	PIC18LF1220-I/SS-ND◆	4.70	2.41	2.35
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F1230-I/ML-ND◆ ***NEW!***	5.20	2.67	2.60
															18-DIP	PIC18F1230-I/P-ND◆ ***NEW!***	4.80	2.46	2.40
															18-SOIC	PIC18F1230-I/SO-ND◆ ***NEW!***	4.65	2.38	2.32
															20-SSOP	PIC18F1230-I/SS-ND◆ ***NEW!***	4.65	2.38	2.32
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF1230-I/ML-ND◆ ***NEW!***	5.43	2.78	2.72
															18-DIP	PIC18LF1230-I/P-ND◆ ***NEW!***	5.03	2.58	2.52
															18-SOIC	PIC18LF1230-I/SO-ND◆ ***NEW!***	4.88	2.50	2.44
	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2220-I/SO-ND◆	8.00	4.58	4.45
															28-DIP .3”	PIC18F2220-I/SP-ND◆	8.00	4.58	4.45
	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC	PIC18LF2220-I/SO-ND◆	8.38	4.80	4.67
															28-DIP .3”	PIC18LF2220-I/SP-ND◆	8.38	4.80	4.67
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10 ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN	PIC18F2221-I/ML-ND◆	4.88	2.50	2.44
															28-SOIC	PIC18F2221-I/SO-ND◆	4.48	2.30	2.24
															28-DIP .3”	PIC18F2221-I/SP-ND◆	4.80	2.46	2.40
															28-SSOP	PIC18F2221-I/SS-ND◆	4.43	2.26	2.21
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10 ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN	PIC18LF2221-I/ML-ND◆	5.10	2.62	2.55
															28-SOIC	PIC18LF2221-I/SO-ND◆	4.70	2.41	2.35

◆ ***RoHS Compliant*** ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) *(Continued)*

8-bit *Flash* Microcontrollers

General Purpose **PIC18F Devices** *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
2K x 16	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10 ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-DIP .3" 28-SSOP	PIC18LF2221-I/SP-ND◆ PIC18LF2221-I/SS-ND◆	5.03 4.65	2.57 2.38	2.51 2.32
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4220-I/ML-ND PIC18F4220-I/P-ND◆ PIC18F4220-I/PT-ND◆	10.50 8.83 10.18	6.02 5.05 5.83	5.85 4.91 5.67
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4220-I/ML-ND◆ PIC18LF4220-I/P-ND◆ PIC18LF4220-I/PT-ND◆	11.05 9.25 10.70	6.31 5.30 6.13	6.14 5.15 5.96
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4221-I/ML-ND◆ PIC18F4221-I/P-ND◆ PIC18F4221-I/PT-ND◆	5.35 5.13 4.95	2.75 2.62 2.54	2.68 2.56 2.48
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4221-I/ML-ND◆ PIC18LF4221-I/P-ND◆ PIC18LF4221-I/PT-ND◆	5.60 5.38 5.20	2.87 2.75 2.67	2.80 2.68 2.60
4K x 16	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC18F1320-I/ML-ND◆ PIC18F1320-I/P-ND◆ PIC18F1320-I/SO-ND◆ PIC18F1320-I/SS-ND◆	5.53 5.13 4.95 4.95	2.83 2.62 2.54 2.54	2.76 2.56 2.48 2.48
	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC18LF1320-I/ML-ND◆ PIC18LF1320-I/P-ND◆ PIC18LF1320-I/SO-ND◆ PIC18LF1320-I/SS-ND◆	5.78 5.38 5.20 5.20	2.96 2.75 2.67 2.67	2.88 2.68 2.60 2.60
	256	128	13	—/2	1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC18F1330-I/ML-ND◆ PIC18F1330-I/P-ND◆ PIC18F1330-I/SO-ND◆ PIC18F1330-I/SS-ND◆	5.68 5.28 5.13 5.13	2.91 2.71 2.62 2.62	2.84 2.64 2.56 2.56
	256	128	16	—/2	1 (AUSART), 1 (EUSART)	—	—	6	4-ch. 10-bit	3	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC	PIC18LF1330-I/ML-ND◆ ***NEW!*** PIC18LF1330-I/P-ND◆ ***NEW!*** PIC18LF1330-I/SO-ND◆ ***NEW!***	5.93 5.53 5.38	3.04 2.84 2.76	2.97 2.77 2.69
	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2320-I/SO-ND◆ PIC18F2320-I/SP-ND◆	8.65 8.65	4.96 4.96	4.82 4.82
	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2320-I/SO-ND◆ PIC18LF2320-I/SP-ND◆	9.08 9.08	5.20 5.20	5.06 5.06
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3" 28-SSOP	PIC18F2321-I/ML-ND◆ PIC18F2321-I/SO-ND◆ PIC18F2321-I/SP-ND◆ PIC18F2321-I/SS-ND◆	5.18 4.78 5.10 4.70	2.65 2.44 2.61 2.41	2.58 2.38 2.54 2.35
	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3" 28-SSOP	PIC18LF2321-I/ML-ND◆ PIC18LF2321-I/SO-ND◆ PIC18LF2321-I/SP-ND◆ PIC18LF2321-I/SS-ND◆	5.40 5.00 5.33 4.95	2.77 2.57 2.73 2.53	2.70 2.50 2.66 2.47
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4320-I/ML-ND◆ PIC18F4320-I/P-ND◆ PIC18F4320-I/PT-ND◆	11.18 9.50 10.83	6.41 5.44 6.20	6.23 5.29 6.03
	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4320-I/ML-ND◆ PIC18LF4320-I/P-ND◆ PIC18LF4320-I/PT-ND◆	11.75 9.95 11.40	6.72 5.71 6.53	6.54 5.55 6.35
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4321-I/ML-ND◆ PIC18F4321-I/P-ND◆ PIC18F4321-I/PT-ND◆	5.65 5.40 5.25	2.89 2.77 2.69	2.82 2.70 2.62
	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4321-I/ML-ND◆ PIC18LF4321-I/P-ND◆ PIC18LF4321-I/PT-ND◆	5.90 5.68 5.50	3.03 2.91 2.82	2.96 2.84 2.76
	768	—	54	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP	PIC18F6310-I/PT-ND◆ PIC18LF6310-I/PT-ND◆	5.75 6.05	2.95 3.10	2.88 3.02
	768	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP	PIC18F6393-I/PT-ND◆ ***NEW!*** PIC18LF6393-I/PT-ND◆ ***NEW!***	6.73 7.05	3.44 3.62	3.36 3.53
	1024	—	54	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	32kHz	40	4.2 ~ 3.6	Ind.	64-TQFP	PIC18F63J11-I/PT-ND◆	5.03	2.57	2.51
	1024	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 3.6	Ind.	64-TQFP	PIC18F63J90-I/PT-ND◆	5.38	2.76	2.69
	768	—	70	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8310-I/PT-ND◆ PIC18LF8310-I/PT-ND	6.88 7.23	3.53 3.70	3.44 3.61
	768	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8393-I/PT-ND◆ ***NEW!*** PIC18LF8393-I/PT-ND◆ ***NEW!***	7.85 8.23	4.02 4.22	3.92 4.12
	1024	—	70	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	32kHz	40	4.2 ~ 3.6	Ind.	80-TQFP	PIC18F83J11-I/PT-ND◆	5.63	2.89	2.82
	1024	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	32kHz	40	4.2 ~ 3.6	Ind.	80-TQFP	PIC18F83J90-I/PT-ND◆	5.95	3.05	2.98
8K x 16	768	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2410-I/ML-ND◆ PIC18F2410-I/SO-ND◆ PIC18F2410-I/SP-ND◆	6.15 5.75 6.08	3.16 2.95 3.12	3.08 2.88 3.04
	768	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2410-I/ML-ND◆ PIC18LF2410-I/SO-ND◆ PIC18LF2410-I/SP-ND	6.45 6.05 6.38	3.30 3.10 3.26	3.22 3.02 3.18
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10 bit	2	32kHz	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3" 28-SSOP	PIC18F24J10-I/ML-ND◆ PIC18F24J10-I/SO-ND◆ PIC18F24J10-I/SP-ND◆ PIC18F24J10-I/SS-ND◆	3.60 3.20 3.45 3.20	1.85 1.72 1.89 1.69	1.81 1.68 1.84 1.65
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10 bit	2	32kHz	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3" 28-SSOP	PIC18LF24J10-I/ML-ND◆ PIC18LF24J10-I/SO-ND◆ PIC18LF24J10-I/SP-ND◆ PIC18LF24J10-I/SS-ND◆	3.60 3.20 3.45 3.20	1.85 1.72 1.89 1.69	1.81 1.68 1.84 1.65
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10 ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2420-I/ML-ND◆ PIC18F2420-I/SO-ND◆ PIC18F2420-I/SP-ND◆	6.65 6.25 6.55	3.40 3.20 3.36	3.32 3.12 3.28
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10 ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2420-I/ML-ND◆ PIC18LF2420-I/SO-ND◆ PIC18LF2420-I/SP-ND◆	6.95 6.55 6.88	3.56 3.36 3.52	3.48 3.28 3.44
	768	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2423-I/ML-ND◆ ***NEW!*** PIC18F2423-I/SO-ND◆ ***NEW!*** PIC18F2423-I/SP-ND◆ ***NEW!***	7.30 6.90 7.23	3.75 3.54 3.71	3.66 3.46 3.62
	768	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2423-I/ML-ND◆ ***NEW!*** PIC18LF2423-I/SO-ND◆ ***NEW!*** PIC18LF2423-I/SP-ND◆ ***NEW!***	7.65 7.25 7.58	3.92 3.72 3.88	3.83 3.63 3.79
	768	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4410-I/ML-ND◆ PIC18F4410-I/P-ND◆ PIC18F4410-I/PT-ND◆	6.65 6.40 6.25	3.40 3.28 3.20	3.32 3.20 3.12
	768	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4410-I/ML-ND◆ PIC18LF4410-I/P-ND◆ PIC18LF4410-I/PT-ND◆	6.95 6.70 6.55	3.56 3.44 3.36	3.48 3.36 3.28
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	4.2 ~ 5.5	Ind.	40-DIP 44-QFN 44-TQFP	PIC18F44J10-I/P-ND◆ PIC18F44J10-I/ML-ND◆ PIC18F44J10-I/PT-ND◆	3.70 4.00 3.73	2.07 2.10 1.95	2.02 2.05 1.90

◆ *RoHS Compliant* ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) *(Continued)*

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

8-bit *Flash* Microcontrollers

General Purpose PIC18F Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
8K x 16	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF44J10-I/ML-ND◆ PIC18LF44J10-I/P-ND◆ PIC18LF44J10-I/PT-ND◆	4.00 3.70 3.73	2.10 2.07 1.95	2.05 2.02 1.90
	768	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4420-I/ML-ND◆ PIC18F4420-I/P-ND◆ PIC18F4420-I/PT-ND◆	7.13 6.88 6.73	3.65 3.53 3.44	3.56 3.44 3.36
	768	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4420-I/ML-ND◆ PIC18LF4420-I/P-ND◆ PIC18LF4420-I/PT-ND◆	7.45 7.23 7.05	3.82 3.70 3.62	3.73 3.61 3.53
	768	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4423-I/ML-ND◆ ***NEW!*** PIC18F4423-I/P-ND◆ ***NEW!*** PIC18F4423-I/PT-ND◆ ***NEW!***	7.80 7.55 7.40	3.99 3.87 3.79	3.90 3.78 3.70
	768	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4423-I/ML-ND◆ ***NEW!*** PIC18LF4423-I/P-ND◆ ***NEW!*** PIC18LF4423-I/PT-ND◆ ***NEW!***	8.15 7.93 7.75	4.18 4.06 3.98	4.08 3.96 3.88
	768	—	54	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	3	12-ch 10-bit	2	8MHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP	PIC18F6410-I/PT-ND◆ PIC18LF6410-I/PT-ND◆	6.55 6.90	3.36 3.53	3.28 3.44
	768	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	32	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP	PIC18F6493-I/PT-ND◆ ***NEW!*** PIC18LF6493-I/PT-ND◆ ***NEW!***	7.53 7.90	3.85 4.05	3.76 3.95
	1024	—	54	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F64J11-I/PT-ND◆	5.18	2.66	2.59
	1024	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F64J90-I/PT-ND◆	5.50	2.82	2.75
	768	—	70	2/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8410-I/PT-ND◆ PIC18LF8410-I/PT-ND◆	7.68 8.08	3.94 4.13	3.84 4.03
	768	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 12-bit	2	8MHz, 32kHz	32	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8493-I/PT-ND◆ ***NEW!*** PIC18LF8493-I/PT-ND◆ ***NEW!***	8.65 9.08	4.43 4.65	4.32 4.54
	1024	—	70	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F84J11-I/PT-ND◆	5.75	2.95	2.88
	1024	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F84J90-I/PT-ND◆	6.10	3.13	3.06
12K x 16	2048	256	24	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	—	10-ch. 12-bit	2	8MHz, 32kHz	48	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2458-I/SO-ND◆ ***NEW!*** PIC18F2458-I/SP-ND◆ ***NEW!***	8.20 8.50	4.20 4.36	4.10 4.26
	2048	256	24	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	—	10-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2458-I/SO-ND◆ ***NEW!*** PIC18LF2458-I/SP-ND◆ ***NEW!***	8.60 8.93	4.41 4.57	4.30 4.46
	2048	256	35	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	48	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4458-I/ML-ND◆ ***NEW!*** PIC18F4458-I/P-ND◆ ***NEW!*** PIC18F4458-I/PT-ND◆ ***NEW!***	9.08 8.83 8.68	4.65 4.53 4.44	4.54 4.42 4.34
	2048	256	35	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	44-QFN 40-DIP	PIC18LF4458-I/ML-ND◆ ***NEW!*** PIC18LF4458-I/P-ND◆ ***NEW!***	9.50 9.28	4.87 4.75	4.75 4.63
16K x 16	1536	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2510-I/ML-ND◆ PIC18F2510-I/SO-ND◆ PIC18F2510-I/SP-ND◆	7.18 6.78 7.10	3.68 3.48 3.64	3.59 3.39 3.55
	1536	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2510-I/ML-ND◆ PIC18LF2510-I/SO-ND◆ PIC18LF2510-I/SP-ND◆	7.53 7.13 7.45	3.86 3.65 3.81	3.76 3.56 3.72
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	2.7 ~ 3.6	Ind.	28-QFN 28-SOIC 28-DIP .3" 28-SSOP	PIC18F25J10-I/ML-ND◆ PIC18F25J10-I/SO-ND◆ PIC18F25J10-I/SP-ND◆ PIC18F25J10-I/SS-ND◆	3.93 3.50 3.78 3.50	2.02 1.89 2.05 1.85	1.97 1.84 2.00 1.81
	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32kHz	40	2.25 ~ 3.6	Ind.	28-DIP .3" 28-QFN 28-SOIC 28-SSOP	PIC18LF25J10-I/SP-ND◆ PIC18LF25J10-I/ML-ND◆ PIC18LF25J10-I/SO-ND◆ PIC18LF25J10-I/SS-ND◆	3.78 3.93 3.50 3.50	2.05 2.02 1.89 1.85	2.00 1.97 1.84 1.81
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2520-I/ML-ND◆ PIC18F2520-I/SO-ND◆ PIC18F2520-I/SP-ND◆	7.68 7.28 7.58	3.93 3.72 3.89	3.83 3.63 3.79
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2520-I/ML-ND◆ PIC18LF2520-I/SO-ND◆ PIC18LF2520-I/SP-ND◆	8.03 7.63 7.95	4.11 3.91 4.07	4.01 3.81 3.97
	1536	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2523-I/ML-ND◆ ***NEW!*** PIC18F2523-I/SO-ND◆ ***NEW!*** PIC18F2523-I/SP-ND◆ ***NEW!***	8.30 7.90 8.23	4.26 4.05 4.21	4.15 3.95 4.11
	1536	256	25	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	10-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2523-I/ML-ND◆ ***NEW!*** PIC18LF2523-I/SO-ND◆ ***NEW!*** PIC18LF2523-I/SP-ND◆ ***NEW!***	8.70 8.30 8.63	4.46 4.25 4.42	4.35 4.15 4.31
	1536	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4510-I/ML-ND◆ PIC18F4510-I/P-ND◆ PIC18F4510-I/PT-ND◆	7.68 7.43 7.28	3.93 3.80 3.72	3.83 3.71 3.63
	1536	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4510-I/ML-ND◆ PIC18LF4510-I/P-ND PIC18LF4510-I/PT-ND◆	8.03 7.78 7.63	4.11 3.99 3.91	4.01 3.89 3.81
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F45J10-I/ML-ND◆ PIC18F45J10-I/P-ND◆ PIC18F45J10-I/PT-ND◆	4.30 4.00 4.05	2.26 2.24 2.12	2.21 2.18 2.06
	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF45J10-I/ML-ND◆ PIC18LF45J10-I/P-ND◆ PIC18LF45J10-I/PT-ND◆	4.30 4.00 4.05	2.26 2.24 2.12	2.21 2.18 2.06
	1536	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4520-I/ML-ND◆ PIC18F4520-I/P-ND◆ PIC18F4520-I/PT-ND◆	8.15 7.90 7.75	4.17 4.05 3.97	4.07 3.95 3.87
	1536	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4520-I/ML-ND◆ PIC18LF4520-I/P-ND◆ PIC18LF4520-I/PT-ND◆	8.53 8.30 8.13	4.37 4.25 4.17	4.27 4.15 4.07
	1536	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4523-I/ML-ND◆ ***NEW!*** PIC18F4523-I/P-ND◆ ***NEW!*** PIC18F4523-I/PT-ND◆ ***NEW!***	8.78 8.55 8.38	4.50 4.38 4.30	4.39 4.27 4.19
	1536	256	36	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	1	13-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4523-I/ML-ND◆ ***NEW!*** PIC18LF4523-I/P-ND◆ ***NEW!*** PIC18LF4523-I/PT-ND◆ ***NEW!***	9.20 8.98 8.80	4.72 4.59 4.51	4.60 4.48 4.40
	2048	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F65J10-I/PT-ND◆	5.13	2.64	2.58
	2048	—	54	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F65J11-I/PT-ND◆	5.40	2.77	2.70
	3904	—	49	2/3	2 (EUSART)	2 MI^{2}C	2	5	8 ch. 10-bit	2	8MHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F65J50-I/PT-ND◆	6.03	3.08	3.01
	2048	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F65J90-I/PT-ND◆	5.75	2.95	2.88
	2048	1024	52	2/3	2 (AUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	—	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP	PIC18F6520-I/PT-ND◆ PIC18LF6520-I/PT-ND◆	11.73 12.28	6.71 7.03	6.52 6.84
	2048	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F85J10-I/PT-ND◆	5.70	2.92	2.85
	2048	—	70	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F85J11-I/PT-ND◆	6.03	3.08	3.01
	3904	—	65	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F85J50-I/PT-ND◆ ***NEW!***	6.63	3.39	3.31

◆ ***RoHS Compliant*** ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) *(Continued)*

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

MICROCHIP

8-bit ***Flash*** Microcontrollers

General Purpose **PIC18F Devices** *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
16K x 16	2048	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	2	12-ch. 10-bit	2	8MHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F85J90-I/PT-ND◆	6.33	3.25	3.17
	2048	1024	68	2/3	2 (AUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	—	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8520-I/PT-ND◆ PIC18LF8520-I/PT-ND◆	12.30 12.93	7.05 7.41	6.85 7.20
24K x 16	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18F2515-I/SO-ND◆ PIC18F2515-I/SP-ND◆	7.78 8.10	3.99 4.15	3.89 4.05
	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18LF2515-I/SO-ND◆ PIC18LF2515-I/SP-ND◆	8.18 8.48	4.18 4.35	4.08 4.24
	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18F2525-I/SO-ND◆ PIC18F2525-I/SP-ND◆	8.25 8.58	4.23 4.40	4.13 4.29
	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18LF2525-I/SO-ND◆ PIC18LF2525-I/SP-ND◆	8.68 9.00	4.44 4.61	4.33 4.49
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4515-I/ML-ND◆ PIC18F4515-I/P-ND◆ PIC18F4515-I/PT-ND◆	8.65 8.43 8.25	4.44 4.31 4.23	4.33 4.21 4.13
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4515-I/ML-ND◆ PIC18LF4515-I/P-ND◆ PIC18LF4515-I/PT-ND◆	9.08 8.83 8.68	4.65 4.52 4.44	4.53 4.41 4.33
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4525-I/ML-ND◆ PIC18F4525-I/P-ND◆ PIC18F4525-I/PT-ND◆	9.13 8.90 8.73	4.68 4.56 4.48	4.57 4.45 4.37
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4525-I/ML-ND◆ PIC18LF4525-I/P-ND◆ PIC18LF4525-I/PT-ND◆	9.58 9.33 9.18	4.91 4.78 4.70	4.79 4.67 4.59
	2048	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.7 ~ 3.6	Ind.	64-TQFP	PIC18F65J15-I/PT-ND◆	5.40	2.77	2.70
	3936	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP	PIC18F6527-I/PT-ND◆ PIC18LF6527-I/PT-ND◆	10.55 11.10	5.41 5.68	5.28 5.54
	2048	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F85J15-I/PT-ND◆	5.98	3.07	2.99
	3936	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8527-I/PT-ND◆ PIC18LF8527-I/PT-ND◆	11.53 12.10	5.90 6.20	5.76 6.05
32K x 16	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18F2610-I/SO-ND◆ PIC18F2610-I/SP-ND◆	8.80 9.13	4.51 4.67	4.40 4.56
	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-DIP .3”	PIC18LF2610-I/SP-ND◆	9.55	4.90	4.78
	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18F2620-I/SO-ND◆ PIC18F2620-I/SP-ND◆	9.28 9.60	4.76 4.92	4.64 4.80
	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18LF2620-I/SO-ND◆ PIC18LF2620-I/SP-ND◆	9.75 10.08	4.99 5.16	4.87 5.03
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4610-I/ML-ND PIC18F4610-I/P-ND◆ PIC18F4610-I/PT-ND◆	9.68 9.45 9.28	4.96 4.84 4.76	4.84 4.72 4.64
	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4610-I/ML-ND◆ PIC18LF4610-I/P-ND◆ PIC18LF4610-I/PT-ND◆	10.15 9.90 9.75	5.20 5.08 4.99	5.07 4.95 4.87
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4620-I/ML-ND◆ PIC18F4620-I/P-ND◆ PIC18F4620-I/PT-ND◆	10.15 9.93 9.75	5.21 5.08 5.00	5.08 4.96 4.88
	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4620-I/ML-ND◆ PIC18LF4620-I/P-ND◆ PIC18LF4620-I/PT-ND◆	10.65 10.40 10.25	5.46 5.33 5.25	5.32 5.20 5.12
	2048	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J10-I/PT-ND◆	5.70	2.92	2.85
	3904	—	50	2/3	2 (EUSART)	2 MI^{2}C	1	5	8-ch. 10-bit	2	8MHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J11-I/PT-ND◆	6.03	3.08	3.01
	3904	—	49	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	8-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J50-I/PT-ND◆ ***NEW!***	6.63	3.39	3.31
	3936	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP	PIC18F6622-I/PT-ND◆ PIC18LF6622-I/PT-ND◆	11.68 12.28	5.99 6.29	5.84 6.13
	2048	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J10-I/PT-ND◆	6.28	3.21	3.14
	3904	—	66	2/3	2 (EUSART)	2 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J11-I/PT-ND◆	6.63	3.39	3.31
	3904	—	65	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J50-I/PT-ND◆ ***NEW!***	7.20	3.69	3.60
	3936	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8622-I/PT-ND◆ PIC18LF8622-I/PT-ND◆	12.65 13.28	6.48 6.80	6.32 6.64
	3808	—	70	2/3	2 (EUSART)	2 MI^{2}C	1	5	16-ch. 10-bit	2	32kHz	42	2.35 ~ 3.6 2.0 ~ 3.6	Ind.	100-TQFP	PIC18F96J60-I/PT-ND◆ PIC18F96J60-I/PF-ND◆	8.78 10.38	4.49 5.31	4.38 5.18
48K x 16	3936	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J15-I/PT-ND◆	5.95	3.05	2.98
	3904	—	50	2/3	2 (EUSART)	2 MI^{2}C	1	5	8-ch. 10-bit	2	8MHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J16-I/PT-ND◆	6.03	3.08	3.01
	3904	—	49	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	8-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J55-I/PT-ND◆ ***NEW!***	6.88	3.53	3.44
	3938	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP	PIC18F6627-I/PT-ND◆ PIC18LF6627-I/PT-ND◆	13.75 14.45	7.05 7.40	6.88 7.22
	3936	1024	54	2/3	2 (EUSART)	2 MI^{2}C	1	5	12-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5 4.2 ~ 5.5	Ind.	64-TQFP	PIC18LF6628-I/PT-ND◆ PIC18F6628-I/PT-ND◆	17.03 16.23	8.73 8.31	8.52 8.11
	3936	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J15-I/PT-ND◆	6.53	3.35	3.26
	3904	—	66	2/3	2 (EUSART)	2 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J16-I/PT-ND◆	6.88	3.53	3.44
	3904	—	66	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J55-I/PT-ND◆ ***NEW!***	7.50	3.84	3.74
	3938	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8627-I/PT-ND◆ PIC18LF8627-I/PT-ND◆	14.73 15.45	7.54 7.92	7.36 7.73
	3936	1024	70	2/3	2 (EUSART)	2 MI^{2}C	1	5	16-ch. 12-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5 4.2 ~ 5.5	Ind.	80-TQFP	PIC18LF8628-I/PT-ND◆ PIC18F8628-I/PT-ND◆	18.10 17.25	9.28 8.84	9.06 8.62
64K x 16	3936	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F67J10-I/PT-ND◆	6.33	3.25	3.17
	3904	—	50	2/3	2 (EUSART)	2 MI^{2}C	1	5	8-ch. 10-bit	2	8MHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F67J11-I/PT-ND◆	6.70	3.43	3.34
	3904	—	49	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	8-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F67J50-I/PT-ND◆ ***NEW!***	7.30	3.74	3.65
	3938	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP	PIC18F6722-I/PT-ND◆ PIC18LF6722-I/PT-ND◆	15.68 16.48	8.04 8.44	7.84 8.23
	3936	1024	54	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	12-ch. 12-bit	2	8MHZ, 32kHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP	PIC18F6723-I/PT-ND◆ PIC18LF6723-I/PT-ND◆ ***NEW!***	18.28 19.18	9.36 9.83	9.14 9.59
	3936	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F87J10-I/PT-ND◆	6.90	3.54	3.46
	3904	—	66	2/3	2 (EUSART)	2 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F87J11-I/PT-ND◆	7.30	3.74	3.65
	3904	—	65	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	12-ch. 10-bit	2	8MHz, 32kHz	48	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F87J50-I/PT-ND◆ ***NEW!***	7.88	4.03	3.94
	3938	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8722-I/PT-ND◆ PIC18LF8722-I/PT-ND◆	16.65 17.48	8.53 8.95	8.32 8.74
	3936	1024	70	2/3	2 (AUSART), 2 (EUSART)	2 MI^{2}C	2	5	16-ch. 12-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8723-I/PT-ND◆ PIC18LF8723-I/PT-ND◆ ***NEW!***	19.30 20.25	9.89 10.38	9.65 10.13

◆ ***RoHS Compliant*** ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

MICROCHIP

Application Specific *Flash* Microcontrollers

Ethernet

PIC18F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	Ethernet	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	25	100
32K x 16	3808	—	39 55	2/3	1 (EUSART) 2 (EUSART)	1 MI^{2}C	1	10 base T	5	11-ch 10-bit 15-ch. 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	64-TQFP 80-TQFP	PIC18F66J60-I/PT-ND PIC18F86J60-I/PT-ND	7.68 8.30	3.94 4.25	3.84 4.14
48K x 16	3808	—	39 55	2/3	1 (EUSART) 2 (EUSART)	1 MI^{2}C	1	10 base T	5	11-ch. 10-bit 15-ch. 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	64-TQFP 80-TQFP	PIC18F66J65-I/PT-ND PIC18F86J65-I/PT-ND	7.98 8.55	4.08 4.38	3.98 4.27
			70	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	16-ch. 10-bit	2	32kHz	42	2.0 ~ 3.6	Ind.	100-TQFP	PIC18F96J65-I/PT-ND PIC18F96J65-I/PF-ND	9.03 10.63	4.62 5.44	4.51 5.31
64K x 16	3808	—	39 55	2/3	1 (EUSART) 2 (EUSART)	1 MI^{2}C	1	10 base T	5	11-ch. 10-bit 15-ch 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	64-TQFP 80-TQFP	PIC18F67J60-I/PT-ND PIC18F87J60-I/PT-ND	8.35 8.95	4.28 4.59	4.18 4.48
			70	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	16-ch. 10-bit	2	32kHz	42	2.0 ~ 3.6	Ind.	100-TQFP	PIC18F97J60-I/PF-ND PIC18F97J60-I/PT-ND	11.05 9.45	5.66 4.84	5.52 4.72

Motor Control

PIC12F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
2K x 14	128	256	6	2/1	—	—	—	1	4-ch. 10-bit	1	8MHz	20	2.0 ~ 5.5	Ind.	8-DFN 8-DFN 8-DIP 8-SOIC	PIC12F683-I/MD-ND PIC12F683-I/MF-ND PIC12F683-I/P-ND PIC12F683-I/SN-ND	2.83 2.33 2.23 2.08	1.82 1.19 1.15 1.07	1.77 1.16 1.12 1.04

PIC18F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
4K x 16	768	256	22	1/3	1 (EUSART)	1	1	8	5-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2331-I/SO-ND◆ PIC18F2331-I/SP-ND◆	7.05 7.35	3.61 3.77	3.52 3.68
	768	256	24	1/3	1 (EUSART)	1	1	6	5-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2331-I/MM-ND PIC18LF2331-I/SO-ND PIC18LF2331-I/SP-ND◆	7.88 7.40 7.70	4.03 3.79 3.95	3.94 3.70 3.86
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4331-I/ML-ND◆ PIC18F4331-I/P-ND◆ PIC18F4331-I/PT-ND◆	8.30 7.98 7.90	4.26 4.09 4.05	4.15 3.99 3.95
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4331-I/ML-ND PIC18LF4331-I/P-ND PIC18LF4331-I/PT-ND	8.70 8.38 8.30	4.46 4.29 4.25	4.35 4.19 4.15
8K x 16	768	256	22	1/3	1 (EUSART)	1	1	8	5-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2431-I/SO-ND◆ PIC18F2431-I/SP-ND◆	7.35 7.68	3.77 3.94	3.68 3.84
	768	256	24	1/3	1 (EUSART)	1	1	6	5-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2431-I/SO-ND◆ PIC18LF2431-I/SP-ND	7.73 8.05	3.96 4.12	3.86 4.02
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4431-I/ML-ND◆ PIC18F4431-I/P-ND◆ PIC18F4431-I/PT-ND◆	8.65 8.33 8.25	4.44 4.27 4.23	4.33 4.17 4.13
	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4431-I/ML-ND◆ PIC18LF4431-I/P-ND◆ PIC18LF4431-I/PT-ND◆	9.08 8.75 8.68	4.65 4.48 4.44	4.53 4.37 4.33

CAN (Controller Area Network)

PIC18F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	CAN	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	25	100
8K x 16	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2480-I/ML-ND PIC18F2480-I/SO-ND PIC18F2480-I/SP-ND	8.90 8.50 8.83	4.57 4.36 4.53	4.46 4.26 4.42
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2480-I/ML-ND PIC18LF2480-I/SO-ND PIC18LF2480-I/SP-ND	8.90 8.50 8.83	4.57 4.36 4.53	4.46 4.26 4.42
	768	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4480-I/ML-ND PIC18F4480-I/P-ND PIC18F4480-I/PT-ND	9.40 9.15 9.00	4.81 4.69 4.61	4.70 4.58 4.50
	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4480-I/ML-ND PIC18LF4480-I/P-ND PIC18LF4480-I/PT-ND	9.85 9.60 9.45	5.04 4.92 4.84	4.92 4.80 4.72
16K x 16	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	—	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2580-I/ML-ND PIC18F2580-I/SO-ND PIC18F2580-I/SP-ND	9.93 9.53 9.85	5.09 4.89 5.05	4.97 4.77 4.93
	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch 10-bit	—	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2580-I/ML-ND PIC18LF2580-I/SO-ND PIC18LF2580-I/SP-ND	10.43 10.03 10.33	5.34 5.13 5.30	5.21 5.01 5.17
	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4580-I/ML-ND PIC18F4580-I/P-ND PIC18F4580-I/PT-ND	10.43 10.18 10.03	5.34 5.22 5.13	5.21 5.09 5.01
	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4580-I/ML-ND PIC18LF4580-I/P-ND PIC18LF4580-I/PT-ND	10.93 10.68 10.53	5.59 5.47 5.39	5.46 5.34 5.26
24K x 16	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2585-I/SO-ND PIC18F2585-I/SP-ND	10.90 11.23	5.59 5.76	5.46 5.62
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2585-I/SO-ND PIC18LF2585-I/SP-ND	11.45 11.78	5.87 6.04	5.73 5.89

◆ ***RoHS Compliant*** ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) *(Continued)*

Application Specific *Flash* Microcontrollers

CAN (Controller Area Network) PIC18F Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	CAN	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	25	100
24K x 16	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4585-I/ML-ND PIC18F4585-I/P-ND PIC18F4585-I/PT-ND	11.80 11.55 11.40	6.04 5.92 5.84	5.90 5.78 5.70
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4585-I/ML-ND PIC18LF4585-I/P-ND PIC18LF4585-I/PT-ND	12.35 12.13 11.95	6.34 6.21 6.13	6.18 6.06 5.98
	3328	1024	53	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6585-I/PT-ND	14.13	8.09	7.87
	3328	1024	52	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	68-PLCC 64-TQFP	PIC18LF6585-I/L-ND PIC18LF6585-I/PT-ND	15.28 14.85	10.57 8.50	9.84 8.27
	3328	1024	68	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	16-ch. 10-bit	2	—	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP 80-TQFP	PIC18F8585-I/PT-ND PIC18LF8585-I/PT-ND	14.83 15.55	8.48 8.91	8.25 8.66
32K x 16	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	1	8-ch. 10-bit	—	8MHz	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18F2680-I/SO-ND PIC18F2680-I/SP-ND	11.55 11.88	5.92 6.08	5.78 5.94
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	1	8-ch. 10-bit	—	8MHz	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18LF2680-I/SO-ND PIC18LF2680-I/SP-ND	12.13 12.45	6.22 6.38	6.06 6.22
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4680-I/ML-ND PIC18F4680-I/P-ND PIC18F4680-I/PT-ND	12.43 12.20 12.03	6.37 6.25 6.17	6.22 6.10 6.02
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	8MHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4680-I/ML-ND PIC18LF4680-I/P-ND PIC18LF4680-I/PT-ND	13.03 12.80 12.63	6.68 6.56 6.47	6.52 6.40 6.32
	3328	1024	52	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6680-I/PT-ND	15.15	8.68	8.44
	3328	1024	52	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	68-PLCC 64-TQFP	PIC18LF6680-I/L-ND PIC18LF6680-I/PT-ND	16.08 15.93	9.20 9.11	8.95 8.86
	3328	1024	68	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	16-ch. 10-bit	2	—	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP 80-TQFP	PIC18F8680-I/PT-ND PIC18LF8680-I/PT-ND	15.80 16.60	9.05 9.50	8.80 9.24
40K x 16	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18F2682-I/SO-ND PIC18F2682-I/SP-ND	12.58 12.90	6.45 6.61	6.29 6.45
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18LF2682-I/SO-ND PIC18LF2682-I/SP-ND	13.20 13.53	6.77 6.93	6.60 6.76
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4682-I/ML-ND PIC18F4682-I/P-ND PIC18F4682-I/PT-ND	13.45 13.23 13.05	6.90 6.77 6.69	6.73 6.61 6.53
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4682-I/ML-ND PIC18LF4682-I/P-ND PIC18LF4682-I/PT-ND	14.10 13.88 13.70	7.23 7.11 7.03	7.05 6.93 6.85
48K x 16	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18F2685-I/SO-ND PIC18F2685-I/SP-ND	13.40 13.73	6.87 7.04	6.70 6.86
	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18LF2685-I/SO-ND PIC18LF2685-I/SP-ND	14.08 14.40	7.22 7.38	7.04 7.20
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4685-I/ML-ND PIC18F4685-I/P-ND PIC18F4685-I/PT-ND	14.30 14.05 13.90	7.32 7.20 7.12	7.14 7.02 6.94
	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8MHz, 32kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4685-I/ML-ND PIC18LF4685-I/P-ND PIC18LF4685-I/PT-ND	14.98 14.75 14.58	7.68 7.56 7.47	7.49 7.37 7.29

USB (Universal Serial Bus)

PIC18F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	USB	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	25	100
8K x 16	768	—	23	1/2	1 (EUSART)	—	—	V2.0 FS 12Mbit/S.	1	10-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3”	PIC18F2450-I/ML-ND PIC18F2450-I/SO-ND PIC18F2450-I/SP-ND	5.50 5.10 5.40	2.81 2.61 2.77	2.74 2.54 2.70
	768	—	23	1/2	1 (EUSART)	—	—	V2.0 FS 12Mbit/S.	1	10-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3”	PIC18LF2450-I/ML-ND PIC18LF2450-I/SO-ND PIC18LF2450-I/SP-ND	5.75 5.35 5.68	2.94 2.74 2.90	2.87 2.67 2.83
	768	—	34	1/2	1 (AUSART)	—	—	V2.0 FS 12Mbit/S.	1	13-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4450-I/ML-ND PIC18F4450-I/P-ND PIC18F4450-I/PT-ND	5.88 5.63 5.48	3.01 2.89 2.80	2.94 2.82 2.74
	768	—	34	1/2	1 (AUSART)	—	—	V2.0 FS 12Mbit/S.	1	13-ch. 10-bit	—	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4450-I/ML-ND PIC18LF4450-I/P-ND PIC18LF4450-I/PT-ND	6.15 5.90 5.75	3.15 3.03 2.94	3.07 2.95 2.87
12K x 16	2048	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18F2455-I/SO-ND PIC18F2455-I/SP-ND	7.55 7.88	3.87 4.03	3.78 3.94
	2048	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18LF2455-I/SO-ND PIC18LF2455-I/SP-ND	7.93 8.25	4.06 4.23	3.96 4.12
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4455-I/ML-ND PIC18F4455-I/P-ND PIC18F4455-I/PT-ND	8.43 8.20 8.03	4.32 4.20 4.12	4.22 4.10 4.02
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4455-I/ML-ND PIC18LF4455-I/P-ND PIC18LF4455-I/PT-ND	8.83 8.60 8.43	4.53 4.40 4.32	4.42 4.30 4.22
16K x 16	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18F2550-I/SO-ND PIC18F2550-I/SP-ND	7.88 8.20	4.03 4.20	3.94 4.10
	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18LF2550-I/SO-ND PIC18LF2550-I/SP-ND	8.28 8.58	4.24 4.40	4.13 4.29
	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	28-DIP .3” 28-SOIC 28-DIP .3”	PIC18F2553-I/SP-ND PIC18LF2553-I/SO-ND PIC18LF2553-I/SP-ND	9.73 9.88 10.20	4.99 5.06 5.23	4.86 4.94 5.10
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4550-I/ML-ND PIC18F4550-I/P-ND PIC18F4550-I/PT-ND	8.75 8.50 8.35	4.49 4.36 4.28	4.38 4.26 4.18
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	8MHz	48	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4550-I/ML-ND PIC18LF4550-I/P-ND PIC18LF4550-I/PT-ND	9.18 8.93 8.78	4.70 4.58 4.49	4.58 4.46 4.38
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 12-bit	2	8MHz, 32kHz	48	4.2 ~ 5.5	Ind.	44-QFN 44-DIP 44-TQFP	PIC18F4553-I/ML-ND PIC18F4553-I/P-ND PIC18F4553-I/PT-ND	10.30 10.05 9.90	5.27 5.15 5.07	5.14 5.02 4.94
	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 12-bit	2	8MHz, 32kHz	48	2.0 ~ 5.5	Ind.	44-QFN 44-DIP 44-TQFP	PIC18LF4553-I/ML-ND PIC18LF4553-I/P-ND PIC18LF4553-I/PT-ND	10.78 10.55 10.38	5.53 5.40 5.32	5.39 5.27 5.19

◆ *RoHS Compliant* *Note:* **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) *(Continued)*

LCD (Liquid Crystal Display)

PIC16F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	LCD Segments	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	25	100
4K x 14	256	256	24	2/1	1 (AUSART)	2 MI^{2}C	1	60	—	5-ch. 10-bit	2	8 MHz	20	4.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3” 28-SSOP	PIC16F913-I/ML-ND PIC16F913-I/SO-ND PIC16F913-I/SP-ND PIC16F913-I/SS-ND	4.40 4.00 4.33 3.93	2.26 2.05 2.21 2.02	2.20 2.00 2.16 1.97
	256	256	35	2/1	1 (AUSART)	2 MI^{2}C	1	96	—	8-ch. 10-bit	2	8 MHz	20	4.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC16F914-I/ML-ND PIC16F914-I/P-ND PIC16F914-I/PT-ND	5.05 4.78 4.65	2.58 2.46 2.38	2.52 2.40 2.32
8K x 14	352	256	24	2/1	1 (AUSART)	1	1	60	—	5-ch. 10-bit	2	8 MHz	20	4.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-SDIP .3” 28-SSOP	PIC16F916-I/ML-ND PIC16F916-I/SO-ND PIC16F916-I/SP-ND PIC16F916-I/SS-ND	4.88 4.48 4.80 4.43	2.50 2.30 2.46 2.26	2.44 2.24 2.40 2.21
	352	256	35	2/1	1 (AUSART)	1	1	96	—	8-ch. 10-bit	2	8MHz, 32kHz	20	4.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC16F917-I/ML-ND PIC16F917-I/P-ND PIC16F917-I/PT-ND	5.35 5.13 4.95	2.75 2.62 2.54	2.68 2.56 2.48
	336	256	53	2/1	1 (AUSART)	1	1	168	—	8-ch. 10-bit	2	8MHz, 32kHz	20	2.0 ~ 5.5	Ind.	64-TQFP	PIC16F946-I/PT-ND	5.28	2.71	2.64

PIC18F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	LCD Segments	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	25	100
4K x 16	768	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	128	2	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP	PIC18F6390-I/PT-ND PIC18LF6390-I/PT-ND	6.08 6.38	3.12 3.27	3.04 3.19
	768	—	66	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	192	2	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8390-I/PT-ND PIC18LF8390-I/PT-ND	7.20 7.55	3.69 3.87	3.60 3.78
8K x 16	768	—	50	1/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	128	2	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP	PIC18F6490-I/PT-ND PIC18LF6490-I/PT-ND	6.88 7.23	3.53 3.70	3.44 3.61
	768	—	66	2/3	1 (AUSART), 1 (EUSART)	1 MI^{2}C	1	192	2	12-ch. 10-bit	2	8MHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP	PIC18F8490-I/PT-ND PIC18LF8490-I/PT-ND	8.00 8.40	4.10 4.31	4.00 4.20

16-bit PIC Microcontrollers

PIC24FJ Devices

Memory Size			I/O Pins	Timer/ Counters 16/32-bit	UART	I^2C™	SPI™	PWM	A/D	Capture Compare	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
16K x 8	4K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8 MHz	32	2.0 ~ 3.6	Ind.	28-QFN 28-SOIC 28-DIP .3” 28-SSOP	PIC24FJ16GA002-I/ML-ND PIC24FJ16GA002-I/SO-ND PIC24FJ16GA002-I/SP-ND PIC24FJ16GA002-I/SS-ND	4.10 3.88 4.18 3.80	2.37 2.23 2.40 2.19	2.14 2.02 2.18 1.98
	4K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8 MHz	32	2.0 ~ 3.6	Ind.	44-QFN 44-TQFP	PIC24FJ16GA004-I/ML-ND PIC24FJ16GA004-I/PT-ND	4.50 4.25	2.57 2.43	2.34 2.21
32K x 8	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8 MHz	32	2.0 ~ 3.6	Ind.	28-QFN 28-SOIC 28-SDIP .3” 28-SSOP	PIC24FJ32GA002-I/ML-ND PIC24FJ32GA002-I/SO-ND PIC24FJ32GA002-I/SP-ND PIC24FJ32GA002-I/SS-ND	4.83 4.58 4.88 4.50	2.77 2.63 2.81 2.60	2.51 2.38 2.54 2.35
	8K	—	35	5/—	2	2	2	5	10-ch. 10-bit	5	8 MHz	32	2.0 ~ 3.6	Ind.	44-QFN 44-TQFP	PIC24FJ32GA004-I/ML-ND PIC24FJ32GA004-I/PT-ND	5.30 5.03	3.06 2.90	2.77 2.62
32K x 16	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8 MHz, 32kHz	32	2.0 ~ 3.6	Ind.	28-QFN 28-SOIC 28-SDIP .3” 28-SSOP	PIC24FJ64GA002-I/ML-ND PIC24FJ64GA002-I/SO-ND PIC24FJ64GA002-I/SP-ND PIC24FJ64GA002-I/SS-ND ***NEW!***	5.75 5.50 5.80 5.43	3.30 3.16 3.34 3.13	2.99 2.86 3.02 2.83
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8 MHz	32	2.0 ~ 3.6	Ind.	44-QFN 44-TQFP	PIC24FJ64GA004-I/ML-ND PIC24FJ64GA004-I/PT-ND	6.23 5.95	3.59 3.43	3.25 3.10
	8K	—	54	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	64-TQFP	PIC24FJ64GA006-I/PT-ND	6.70	3.85	3.49
	8K	—	70	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	80-TQFP	PIC24FJ64GA008-I/PT-ND	7.25	4.17	3.78
	8K	—	86	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	100-TQFP	PIC24FJ64GA010-I/PF-ND PIC24FJ64GA010-I/PT-ND	9.23 7.70	5.32 4.43	4.82 4.02
48K x 8	8K	—	21	5/—	2	2	2	5	10-ch. 10-bit	5	8 MHz	32	2.0 ~ 3.6	Ind.	28-QFN 28-SOIC 28-DIP .3” 28-SSOP	PIC24FJ48GA002-I/ML-ND PIC24FJ48GA002-I/SO-ND PIC24FJ48GA002-I/SP-ND PIC24FJ48GA002-I/SS-ND	5.28 5.03 5.35 4.98	3.04 2.90 3.07 2.86	2.75 2.62 2.78 2.59
	8K	—	35	5/—	2	2	2	5	13-ch. 10-bit	5	8 MHz	32	2.0 ~ 3.6	Ind.	44-QFN 44-TQFP	PIC24FJ48GA004-I/ML-ND PIC24FJ48GA004-I/PT-ND	5.78 5.50	3.32 3.16	3.01 2.86
	8K	—	54	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	64-TQFP	PIC24FJ96GA006-I/PT-ND	6.93	3.99	3.62
48K x 16	8K	—	70	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	80-TQFP	PIC24FJ96GA008-I/PT-ND	7.53	4.33	3.92
	8K	—	86	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	100-TQFP	PIC24FJ96GA010-I/PF-ND PIC24FJ96GA010-I/PT-ND	9.50 7.98	5.48 4.59	4.96 4.16
64K x 16	8K	—	54	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	64-TQFP	PIC24FJ128GA006-I/PT-ND	7.33	4.22	3.82
	8K	—	70	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	80-TQFP	PIC24FJ128GA008-I/PT-ND	7.88	4.54	4.11
	8K	—	86	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	100-TQFP	PIC24FJ128GA010-I/PF-ND	9.88	5.69	5.15

◆ ***RoHS Compliant*** ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C) *(Continued)*

MICROCHIP 16-bit PIC Microcontrollers *(Cont.)*

PIC24HJ Devices, 40 MIPs

Memory Size			I/O	Timer/ Counters						Capture	Int.	Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program Words	RAM Bytes	EEPROM Bytes	Pins	16/32-bit	UART	I²C™	SPI™	PWM	A/D	Compare	Osc.	(MHz)	(V)	Temp.	Package	Part No.	1	25	100
12K x 8	1K	—	13	3/1	1	1	1	4	6-ch. 12-bit, 6-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	18-DIP 18-SOIC	PIC24HJ12GP201-I/P-ND PIC24HJ12GP201-I/SO-ND	4.73 4.58	2.72 2.63	2.46 2.38
	1K	—	21	3/1	1	1	1	4	10-ch. 12-bit, 10-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN 28-SOIC 28-SDIP .3"	PIC24HJ12GP202-I/ML-ND PIC24HJ12GP202-I/SO-ND PIC24HJ12GP202-I/SP-ND	5.23 4.98 5.28	3.00 2.86 3.04	2.72 2.59 2.75
16K x 16	2K	—	35	3/1	1	1	1	2	13-ch. 12-bit, 13-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN 44-TQFP	PIC24HJ16GP304-I/ML-ND ***NEW!*** PIC24HJ16GP304-I/PT-ND ***NEW!***	5.58 5.33	3.18 3.04	2.90 2.76
	2K	—	35	3/1	1	1	1	2	13-ch. 12-bit, 13-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN	PIC24HJ16GP304-E/ML-ND ***NEW!***	6.10	3.48	3.17
32K x 16	2K	—	21	3/1	1	1	1	2	10-ch. 12-bit, 10-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN 28-SOIC 28-SDIP .3"	PIC24HJ32GP202-I/MM-ND ***NEW!*** PIC24HJ32GP202-I/SO-ND ***NEW!*** PIC24HJ32GP202-I/SP-ND ***NEW!***	5.53 5.28 5.58	3.15 3.02 3.18	2.87 2.75 2.90
	2K	—	21	3/1	1	1	1	2	10-ch. 12-bit, 10-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN 28-SOIC 28-SDIP .3"	PIC24HJ32GP202-E/MM-ND ***NEW!*** PIC24HJ32GP202-E/SO-ND ***NEW!*** PIC24HJ32GP202-E/SP-ND ***NEW!***	6.03 5.80 6.10	3.45 3.32 3.48	3.14 3.02 3.17
	2K	—	35	3/1	1	1	1	2	13-ch. 12-bit, 13-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN 44-TQFP	PIC24HJ32GP204-I/ML-ND ***NEW!*** PIC24HJ32GP204-I/PT-ND ***NEW!***	5.90 5.63	3.37 3.22	3.06 2.93
	2K	—	35	3/1	1	1	1	2	13-ch. 12-bit, 13-ch. 10-bit	4	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-TQFP	PIC24HJ32GP204-E/PT-ND ***NEW!***	6.20	3.55	3.23
	8K	—	53	9/4	2	1	2	8	18-ch. 12-bit, 18-ch. 10 bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ64GP206-I/PT-ND	7.58	4.36	3.95
	8K	—	85	9/4	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ64GP210-I/PF-ND PIC24HJ64GP210-I/PT-ND	10.70 9.18	6.17 5.28	5.58 4.78
	8K	—	53	9/4	2	2	2	8	18-ch. 12-bit, 18-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ64GP506-I/PT-ND	8.08	4.65	4.21
	8K	—	85	—/9	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ64GP510-I/PF-ND PIC24HJ64GP510-I/PT-ND	11.10 9.58	6.40 5.51	5.79 4.99
64K x 16	8K	—	53	9/4	2	2	2	8	18-ch. 12-bit, 18-ch. 10 bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ128GP206-I/PT-ND	8.15	4.70	4.26
	8K	—	85	9/4	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP210-I/PF-ND PIC24HJ128GP210-I/PT-ND	11.10 9.58	6.40 5.51	5.79 4.99
	16K	—	53	9/4	2	2	2	8	18-ch. 12-bit, 18-ch. 10 bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ128GP306-I/PT-ND	8.40	4.84	4.38
	16K	—	85	9/4	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP310-I/PF-ND PIC24HJ128GP310-I/PT-ND	11.38 9.85	6.55 5.67	5.94 5.14
	8K	—	53	—/9	2	2	2	8	18 ch. 12-bit, 18-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ128GP506-I/PT-ND	8.60	4.95	4.48
	8K	—	85	—/9	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP510-I/PF-ND PIC24HJ128GP510-I/PT-ND	11.63 10.10	6.70 5.81	6.06 5.26
128K x 16	16K	—	53	9/4	2	2	2	8	18-ch. 12-bit, 18-ch. 10 bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ256GP206-I/PT-ND	9.08	5.23	4.74
	16K	—	85	9/4	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ256GP210-I/PF-ND PIC24HJ256GP210-I/PT-ND	12.00 10.48	6.91 6.02	6.26 5.46
	16K	—	85	—/9	2	2	2	8	32-ch. 12-bit, 32-ch. 10-bit	8	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ256GP610-I/PF-ND PIC24HJ256GP610-I/PT-ND	13.25 11.73	7.63 6.75	6.91 6.11

NEW! 32-bit PIC Microcontrollers

PIC32MX Devices

Memory Size			I/O	Timer/ Counters						Capture	Int.	Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program Bytes	RAM Bytes	EEPROM Bytes	Pins	16/32-bit	UART	I²C™	SPI™	PWM	A/D	Compare	Osc.	(MHz)	(V)	Temp.	Package	Part No.	1	25	100
32K	8K	—	53	5/1	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	40	2.3 ~ 3.6	Ind.	64-TQFP	PIC32MX320F032H-40I/PT-ND	6.78	3.90	3.54
512K	32K	—	85	5/1	2	2	2	5	16-ch. 10-bit	5	8MHz, 32kHz	80	2.3 ~ 3.6	Ind.	100-TQFP	PIC32MX360F512L-80I/PT-ND	12.18	7.01	6.35

16-bit dsPIC DSCs

dsPIC30F DSCs, 30 MIPs

Memory Size			I/O	Timer/ Counters				Output Comp/Std.	Motor Control		Analog	Int.	Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program Words	RAM Bytes	EEPROM Bytes	Pins	16-bit	UART	I²C™	SPI™	PWM	PWM	A/D	Comp.	Osc.	(MHz)	(V)	Temp.	Package	Part No.	1	25	100
4K x 24	256	—	21	2	1	1	1	1	4	6-ch., 10-bit	2	14.55MHz, 9.7MHz, 512kHz	20	3.0 ~ 5.5	Ext.	28-QFN 28-SOIC 28-DIP .3"	DSPIC30F1010-20E/MM-ND◆ ***NEW!*** DSPIC30F1010-20E/SO-ND◆ ***NEW!*** DSPIC30F1010-20E/SP-ND◆ ***NEW!***	8.13 7.88 8.23	4.17 4.04 4.23	4.06 3.95 4.13
	256	—	21	2	1	1	1	1	4	6-ch., 10-bit	2	14.55MHz, 9.7MHz, 512kHz	30	3.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	DSPIC30F1010-30I/MM-ND◆ ***NEW!*** DSPIC30F1010-30I/SO-ND◆ ***NEW!*** DSPIC30F1010-30I/SP-ND◆ ***NEW!***	7.40 7.15 7.55	3.80 3.67 3.87	3.71 3.59 3.78
	12K	1024	20	3	1	1	1	2	6	6-ch., 10-bit	—	7.37MHz, 512kHz	20	2.5 ~ 5.5	Ind.	28-QFN	DSPIC30F2010-20I/MM-ND◆	6.78	3.47	3.39
	24K	1024	20	5	1	1	1	2	6	6-ch., 10-bit	—	7.37MHz, 512kHz	30	2.5 ~ 5.5	Ind.	28-QFN	DSPIC30F2010-30I/MM-ND◆	7.08	3.63	3.54
	512	1024	20	3	1	1	1	6	6	6-ch., 10-bit	—	—	20 20 20 30 30 30	2.5 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3" 28-QFN 28-SOIC 28-DIP .3"	DSPIC30F201020IMM-ND◆ DSPIC30F201020IS-ND DSPIC30F201020ISP-ND◆ DSPIC30F201030IMM-ND◆ DSPIC30F201030ISO-ND◆ DSPIC30F201030ISP-ND◆	6.78 6.55 6.85 7.08 8.60 7.15	3.47 3.35 3.51 3.63 4.41 3.66	3.39 3.27 3.42 3.54 4.30 3.57
	1024	—	12	3	1	1	1	2	—	8-ch., 12-bit	—	7.37MHz	20 20 20 30	2.5 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 28-QFN	DSPIC30F201120IML-ND◆ DSPIC30F2011-20IP-ND◆ DSPIC30F201120ISO-ND◆ DSPIC30F201130IML-ND◆	6.53 6.15 6.00 6.53	3.34 3.15 3.08 3.34	3.26 3.08 3.00 3.26

◆ ***RoHS Compliant*** ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

† Cut Tape § Tape and Reel

(Continued)

16-bit dsPIC DSCs

dsPIC30F DSCs, 30 MIPs *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 16-bit	UART	I^{2}C™	SPI™	Output Comp/Std. PWM	Motor Control PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	25	100
4K x 24	1024	—	12	3	1	1	1	2	—	8-ch., 12-bit	—	7.37MHz	30	2.5 ~ 5.5	Ind.	18-DIP	DSPIC30F2011-30IP-ND◆	6.15	3.15	3.08
													30			18-SOIC	DSPIC30F201130ISO-ND◆	6.00	3.08	3.00
	1024	—	20	3	1	1	1	2	—	10-ch., 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	28-QFN	DSPIC30F201220IML-ND◆	6.48	3.32	3.24
													20			28-SOIC	DSPIC30F201220ISO-ND◆	6.25	3.20	3.12
													20			28-DIP .3"	DSPIC30F201220ISP-ND◆	6.55	3.35	3.27
													30			28-QFN	DSPIC30F201230IML-ND◆	6.48	3.32	3.24
													30			28-SOIC	DSPIC30F201230ISO-ND◆	6.25	3.20	3.12
													30			28-DIP .3"	DSPIC30F201230ISP-ND◆	6.55	3.35	3.27
	512	—	21	3	1	1	1	2	8	8-ch., 10-bit	4	14.55MHz, 9.7MHz, 512kHz	20	3.0 ~ 5.5	Ext.	28-QFN	DSPIC30F2020-20E/MM-ND◆ ***NEW!***	10.38	5.32	5.19
																28-SOIC	DSPIC30F2020-20E/SO-ND◆ ***NEW!***	10.13	5.20	5.07
																28-DIP .3"	DSPIC30F2020-20E/SP-ND◆ ***NEW!***	10.48	5.38	5.25
	512	—	21	3	1	1	1	2	8	8-ch., 10-bit	4	14.55MHz, 9.7MHz, 512kHz	30	3.0 ~ 5.5	Ind.	28-QFN	DSPIC30F2020-30I/MM-ND◆ ***NEW!***	9.45	4.84	4.73
																28-SOIC	DSPIC30F2020-30I/SO-ND◆ ***NEW!***	9.18	4.72	4.61
																28-SOIC	DSPIC30F2020T-30I/SOCT-ND◆† ***NEW!***	9.28	4.77	4.65
																28-SOIC	DSPIC30F2020T-30I/SOTR-ND◆§ ***NEW!***	7440.00/1,600		
																28-DIP .3"	DSPIC30F2020-30I/SP-ND◆ ***NEW!***	9.58	4.92	4.80
	512	—	35	3	1	1	1	2	8	12-ch., 10-bit	4	14.55MHz, 9.7MHz, 512kHz	20	3.0 ~ 5.5	Ext.	44-QFN	DSPIC30F2023-20E/ML-ND◆ ***NEW!***	11.50	5.89	5.75
																44-TQFP	DSPIC30F2023-20E/PT-ND◆ ***NEW!***	11.20	5.75	5.61
	512	—	35	3	1	1	1	2	8	12-ch., 10-bit	4	14.55MHz, 9.7MHz, 512kHz	30	3.0 ~ 5.5	Ind.	44-QFN	DSPIC30F2023-30I/ML-ND◆ ***NEW!***	10.48	5.37	5.24
																44-TQFP	DSPIC30F2023-30I/PT-ND◆ ***NEW!***	10.18	5.23	5.10
8K x 24	1024	1024	20	5	1	1	1	2	6	6-ch., 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301020IML-ND◆	9.20	4.72	4.61
													20			28-SOIC	DSPIC30F301020ISO-ND◆	8.10	4.15	4.05
													20			28-DIP .3"	DSPIC30F301020ISP-ND◆	8.40	4.31	4.20
													30			44-QFN	DSPIC30F301030IML-ND◆	9.20	4.72	4.61
													30			28-SOIC	DSPIC30F301030ISO-ND◆	8.10	4.15	4.05
													30			28-DIP .3"	DSPIC30F301030ISP-ND◆	8.40	4.31	4.20
	1024	1024	30	5	2	1	1	4	6	9-ch., 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301120IML-ND◆	9.20	4.72	4.61
													20			40-DIP	DSPIC30F3011-20IP-ND◆	9.10	4.66	4.55
													20			44-TQFP	DSPIC30F301120IPT-ND◆	8.95	4.58	4.47
													30			44-QFN	DSPIC30F301130IML-ND◆	9.20	4.72	4.61
													30			40-DIP	DSPIC30F3011-30IP-ND◆	9.10	4.66	4.55
													30			44-TQFP	DSPIC30F301130IPT-ND◆	8.95	4.58	4.47
	2048	1024	12	3	1	1	1	2	—	8-ch., 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301220IML-ND◆	8.18	4.35	4.25
													20			18-DIP	DSPIC30F3012-20IP-ND◆	7.35	3.77	3.68
													20			18-SOIC	DSPIC30F301220ISO-ND◆	7.20	3.69	3.60
													30			44-QFN	DSPIC30F301230IML-ND◆	8.50	4.35	4.25
													30			18-DIP	DSPIC30F3012-30IP-ND◆	7.35	3.77	3.68
													30			18-SOIC	DSPIC30F301230ISO-ND◆	7.20	3.69	3.60
	2048	1024	20	3	2	1	1	2	—	10-ch., 12-bit	—	7.37MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301320IML-ND◆	8.55	4.38	4.28
													20			28-SOIC	DSPIC30F301320ISO-ND◆	7.45	3.81	3.72
													20			28-DIP .3"	DSPIC30F301320ISP-ND◆	7.75	3.97	3.87
													30			44-QFN	DSPIC30F301330IML-ND◆	8.55	4.38	4.28
													30			28-SOIC	DSPIC30F301330ISO-ND◆	7.45	3.81	3.72
													30			28-DIP .3"	DSPIC30F301330ISP-ND◆	7.75	3.97	3.87
	2048	1024	30	3	2	1	1	2	—	13-ch., 12-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301420IML-ND◆	8.98	4.60	4.49
													20			40-DIP	DSPIC30F3014-20IP-ND◆	8.85	4.54	4.43
													20			44-TQFP	DSPIC30F301420IPT-ND◆	8.70	4.46	4.35
													30			44-QFN	DSPIC30F301430IML-ND◆	8.98	4.60	4.49
													30			40-DIP	DSPIC30F301430/P-ND◆	8.85	4.54	4.43
													30			44-TQFP	DSPIC30F301430IPT-ND◆	8.70	4.46	4.35
16K x 24	2048	1024	30	5	2	1	1	4	6	9-ch., 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F401120/ML-ND◆	9.93	5.09	4.97
													20			40-DIP	DSPIC30F4011-20IP-ND◆	9.80	5.03	4.91
													20			44-TQFP	DSPIC30F401120IPT-ND◆	9.65	4.95	4.83
													30			44-QFN	DSPIC30F401130IML-ND◆	9.93	5.09	4.97
													30			40-DIP	DSPIC30F4011-30IP-ND◆	9.80	5.03	4.91
													30			44-TQFP	DSPIC30F401130IPT-ND◆	9.65	4.95	4.83
	2048	1024	20	5	1	1	1	2	6	6-ch., 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F401220IML-ND◆	10.05	5.15	5.03
													20			28-SOIC	DSPIC30F401220ISO-ND◆	8.95	4.58	4.47
													20			28-DIP .3"	DSPIC30F401220ISP-ND	9.25	4.74	4.62
													30			44-QFN	DSPIC30F401230IML-ND◆	10.05	5.15	5.03
													30			28-SOIC	DSPIC30F401230ISO-ND◆	8.95	4.58	4.47
													30			28-DIP .3"	DSPIC30F401230ISP-ND◆	9.25	4.74	4.62
	2048	1024	30	5	2	1	1	4	—	13-ch., 12-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F401320IML-ND◆	9.70	4.97	4.85
													20			40-DIP	DSPIC30F4013-20IP-ND◆	9.58	4.90	4.79
													20			44-TQFP	DSPIC30F401320IPT-ND◆	9.43	4.83	4.71
													30			44-QFN	DSPIC30F401330IML-ND◆	9.70	4.97	4.85
													30			40-DIP	DSPIC30F4013-30IP-ND◆	9.58	4.90	4.79
													30			44-TQFP	DSPIC30F401330IPT-ND◆	9.43	4.83	4.71
22K x 24	4096	1024	52	5	2	1	2	8	—	16-ch., 12-bit	—	—	20	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F501120IPT-ND◆	11.95	6.12	5.97
													30			64-TQFP	DSPIC30F5011-30I/PT-ND◆	12.55	6.43	6.27
	4096	1024	68	5	2	1	2	8	—	16-ch., 12-bit	—	—	20	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F501320IPT-ND◆	13.18	6.75	6.59
													30			80-TQFP	DSPIC30F501330IPT-ND◆	13.78	7.06	6.89
	2048	1024	52	5	1	1	2	4	8	16-ch., 10-bit	—	8MHz	30	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F501530IPT-ND◆	12.20	6.26	6.11
	2048	1024	68	5	1	1	2	4	8	16-ch., 10-bit	—	8MHz	20	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F501620IPT-ND	18.83	10.68	10.40
													30			80-TQFP	DSPIC30F501630IPT-ND◆	13.45	6.89	6.72
44K x 24	6144	2048	52	5	2	1	2	8	—	16-ch., 12-bit	—	—	20	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F601120IPF-ND	25.08	15.33	14.96
													30			64-TQFP	DSPIC30F601130IPF-ND◆	30.08	16.10	15.71
													30			64-TQFP	DSPIC30F6011A30IP-ND◆	16.60	8.50	8.30
													30			64-TQFP	DSPIC30F6011A-30I/PF-ND◆	18.10	9.27	9.05
	6144	2048	68	5	2	1	2	8	—	16-ch., 12-bit	—	—	20	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F601320IPF-ND	25.53	15.68	15.30
													30			80-TQFP	DSPIC30F601330IPF-ND	30.65	16.47	16.06
													30			80-TQFP	DSPIC30F6013A30IP-ND◆	17.20	8.81	8.60
													30			80-TQFP	DSPIC30F6013A-30I/PF-ND◆	18.70	9.58	9.35
48K x 24	8192	4096	68	5	2	1	2	8	8	16-ch., 10-bit	—	—	30	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F6010A-30I/PF-ND◆	19.23	9.86	9.62
													20			80-TQFP	DSPIC30F601020IPF-ND◆	28.08	16.01	15.62
													30			80-TQFP	DSPIC30F601030IPF-ND◆	32.55	16.81	16.40
													30			80-TQFP	DSPIC30F6010A30IP-ND◆	17.73	9.09	8.87
	8192	4096	52	5	2	1	2	8	—	16-ch., 12-bit	—	—	20	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F601220IPF-ND◆	26.23	15.50	15.12
													30			64-TQFP	DSPIC30F601230IPF-ND◆	30.38	16.27	15.87
													30			64-TQFP	DSPIC30F6012A30IP-ND◆	16.75	8.58	8.37
													30			64-TQFP	DSPIC30F6012A-30I/PF-ND◆	18.25	9.35	9.12
	8192	4096	68	5	2	1	2	8	—	16-ch., 12-bit	—	—	20	2.5 ~ 5.5	Ind.	80-TQFP	DSPIC30F601420IPF-ND◆	27.50	16.01	15.62
													30			80-TQFP	DSPIC30F601430IPF-ND◆	31.85	16.81	16.40
													30			80-TQFP	DSPIC30F6014A30IP-ND◆	17.43	8.93	8.72
													30			80-TQFP	DSPIC30F6014A-30I/PF-ND◆	18.93	9.70	9.47
	8192	4096	52	5	2	1	2	6	8	16-ch., 10-bit	—	—	30	2.5 ~ 5.5	Ind.	64-TQFP	DSPIC30F601530IPT-ND◆	17.28	8.86	8.64

◆ ***RoHS Compliant*** ***Note:*** **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)
† Cut Tape § Tape and Reel

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

16-bit dsPIC DSCs *(Cont.)*

dsPIC33F Devices, 40 MIPs

Memory Size																			
Program Bytes	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 16/32-bit	UART	I^2C™	SPI™	Output Comp/Std. PWM	Motor Control PWM	A/D	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Package	Digi-Key Part No.	Price Each 1	25	100
12K	1K	—	13	3/1	1	1	1	2	—	6-ch. 12-bit; 6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	18-DIP 18-SOIC	DSPIC33FJ12GP201-I/P-ND DSPIC33FJ12GP201-I/SO-ND	4.73 4.58	2.72 2.63	2.46 2.38
	1K	—	21	3/1	1	1	1	2	—	6-ch. 12-bit; 6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-QFN 28-SOIC 28-DIP .3"	DSPIC33FJ12GP202-I/ML-ND DSPIC33FJ12GP202-I/SO-ND DSPIC33FJ12GP202-I/SP-ND	5.53 5.28 5.58	3.18 3.04 3.22	2.88 2.75 2.91
	1K	—	15	3/1	1	1	1	2	8	4-ch. 12-bit; 4-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	20-DIP 20-SOIC 20-SSOP	DSPIC33FJ12MC201-I/P-ND DSPIC33FJ12MC201-I/SO-ND ***NEW!*** DSPIC33FJ12MC201-I/SS-ND ***NEW!***	5.35 5.03 4.58	3.07 2.90 2.63	2.78 2.62 2.38
	1K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit; 6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-SOIC 28-SSOP	DSPIC33FJ12MC202-I/SO-ND DSPIC33FJ12MC202-I/SS-ND ***NEW!***	5.50 5.43	3.16 3.13	2.86 2.83
	1K	—	21	3/—	1	1	1	2	8	6-ch. 12-bit; 6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-DIP .3"	DSPIC33FJ12MC202-I/SP-ND	5.90	3.39	3.07
	1K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit; 6-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	28-QFN	DSPIC33FJ12MC202-I/ML-ND	5.75	3.30	2.99
16K	2K	—	35	3/1	1	1	1	2	8	9-ch. 12-bit; 9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN 44-TQFP	DSPIC33FJ16MC304-I/ML-ND ***NEW!*** DSPIC33FJ16MC304-I/PT-ND ***NEW!***	6.43 6.13	3.69 3.53	3.34 3.20
	2K	—	35	3/1	1	1	1	2	8	9-ch. 12-bit; 9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN 44-TQFP	DSPIC33FJ16MC304-E/ML-ND ***NEW!*** DSPIC33FJ16MC304-E/PT-ND ***NEW!***	7.03 6.75	4.05 3.89	3.66 3.52
	2K	—	35	3/1	1	1	1	2	—	13-ch. 12-bit; 13-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN 44-TQFP	DSPIC33FJ16GP304-I/ML-ND ***NEW!*** DSPIC33FJ16GP304-I/PT-ND ***NEW!***	6.23 5.95	3.59 3.43	3.25 3.10
	2K	—	35	3/1	1	1	1	2	—	13-ch. 12-bit; 13-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN 44-TQFP	DSPIC33FJ16GP304-E/ML-ND ***NEW!*** DSPIC33FJ16GP304-E/PT-ND ***NEW!***	6.80 6.53	3.92 3.76	3.55 3.41
32K	2K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit; 6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN 28-SOIC 28-DIP .3"	DSPIC33FJ32MC202-I/MM-ND ***NEW!*** DSPIC33FJ32MC202-I/SO-ND ***NEW!*** DSPIC33FJ32MC202-I/SP-ND ***NEW!***	5.93 5.68 5.98	3.41 3.27 3.45	3.09 2.96 3.12
	2K	—	21	3/1	1	1	1	2	8	6-ch. 12-bit; 6-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN 28-SOIC 28-DIP .3"	DSPIC33FJ32MC202-E/MM-ND ***NEW!*** DSPIC33FJ32MC202-E/SO-ND ***NEW!*** DSPIC33FJ32MC202-E/SP-ND ***NEW!***	6.50 6.25 6.58	3.75 3.60 3.78	3.39 3.26 3.42
	2K	—	21	3/1	1	1	1	2	—	10-ch. 12-bit; 10-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	28-QFN 28-SOIC 28-DIP .3"	DSPIC33FJ32GP202-I/MM-ND ***NEW!*** DSPIC33FJ32GP202-I/SO-ND ***NEW!*** DSPIC33FJ32GP202-I/SP-ND ***NEW!***	6.03 5.78 6.08	3.46 3.32 3.50	3.14 3.01 3.17
	2K	—	21	3/1	1	1	1	2	—	10-ch. 12-bit; 10-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	28-QFN 28-SOIC 28-DIP .3"	DSPIC33FJ32GP202-E/MM-ND ***NEW!*** DSPIC33FJ32GP202-E/SO-ND ***NEW!*** DSPIC33FJ32GP202-E/SP-ND ***NEW!***	6.60 6.35 6.65	3.80 3.66 3.83	3.44 3.31 3.47
	2K	—	35	3/1	1	1	1	2	8	9-ch. 12-bit; 9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN 44-TQFP	DSPIC33FJ32MC204-I/ML-ND ***NEW!*** DSPIC33FJ32MC204-I/PT-ND ***NEW!***	6.58 6.30	3.78 3.62	3.42 3.28
	2K	—	35	3/1	1	1	1	2	8	9-ch. 12-bit; 9-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN 44-TQFP	DSPIC33FJ32MC204-E/ML-ND ***NEW!*** DSPIC33FJ32MC204-E/PT-ND ***NEW!***	7.20 6.93	4.15 3.99	3.76 3.62
	2K	—	35	3/1	1	1	1	2	—	13-ch. 12-bit; 13-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ind.	44-QFN 44-TQFP	DSPIC33FJ32GP204-I/ML-ND ***NEW!*** DSPIC33FJ32GP204-I/PT-ND ***NEW!***	6.38 6.10	3.67 3.52	3.33 3.18
	2K	—	35	3/1	1	1	1	2	—	13-ch. 12-bit; 13-ch. 10-bit	7.37MHz, 512kHz	64	3.0 ~ 3.6	Ext.	44-QFN 44-TQFP	DSPIC33FJ32GP204-E/ML-ND ***NEW!*** DSPIC33FJ32GP204-E/PT-ND ***NEW!***	7.00 6.73	4.03 3.87	3.65 3.50
64K	8	—	53	9/4	2	1	2	8	—	18-ch. 12-bit; 18-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64GP206-I/PT-ND	7.98	4.59	4.16
	16	—	53	9/4	2	2	2	8	—	18-ch. 12-bit; 18-ch. 10-bit					64-TQFP	DSPIC33FJ64GP306-I/PT-ND	8.35	4.81	4.35
	16	—	85	9/4	2	2	2	8	—	32-ch. 12-bit; 32-ch. 10-bit					100-TQFP	DSPIC33FJ64GP310-I/PF-ND	11.43	6.57	5.95
	16	—	53	9/—	2	2	2	8	—	18-ch. 12-bit; 18-ch. 10-bit					64-TQFP	DSPIC33FJ64GP706-I/PT-ND	9.68	5.57	5.04
	16	—	69	9/—	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit					80-TQFP	DSPIC33FJ64GP708-I/PT-ND	10.35	5.95	5.39
	16	—	85	9/—	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64GP710-I/PF-ND	12.73	7.33	6.64
	8	—	53	9/—	2	2	2	8	—	18-ch. 12-bit; 18-ch. 10-bit					64-TQFP	DSPIC33FJ64MC506-I/PT-ND	8.63	4.96	4.50
	8	—	69	9/—	2	2	2	8	—	18-ch. 12-bit; 18-ch. 10-bit					80-TQFP	DSPIC33FJ64MC508-I/PT-ND	9.30	5.35	4.85
	16	—	85	9/—	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit					100-TQFP	DSPIC33FJ64MC710-I/PF-ND	12.88	7.42	6.72
128K	8K	—	53	9/4	2	1	2	8	—	18-ch. 12-bit; 18-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128GP206-I/PT-ND	8.50	4.89	4.43
	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit; 18-ch. 10-bit						DSPIC33FJ128GP306-I/PT-ND	8.88	5.11	4.62
	16K	—	85	9/4	2	2	2	8	—	32-ch. 12-bit; 32-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128GP310-I/PF-ND DSPIC33FJ128GP310-I/PT-ND	11.90 10.38	6.85 5.97	6.21 5.41
	8K	—	53	9/4	2	2	2	8	8	16-ch. 12-bit; 16-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128MC506-I/PT-ND	9.15	5.26	4.77
	8K	—	85	9/4	2	2	2	8	8	24-ch. 12-bit; 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128MC510-I/PF-ND DSPIC33FJ128MC510-I/PT-ND	12.20 10.68	7.03 6.15	6.37 5.57
	16K	—	53	9/4	2	2	2	8	8	16-ch. 12-bit; 16-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128MC706-I/PT-ND	9.95	5.72	5.18
	16	—	53	9/—	2	2	2	8	—	18-ch. 12-bit; 18-ch. 10-bit					64-TQFP	DSPIC33FJ128GP706-I/PT-ND	10.18	5.87	5.31
	16	—	69	9/—	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit					80-TQFP	DSPIC33FJ128GP708-I/PT-ND	10.85	6.25	5.66
	16	—	85	9/—	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128GP710-I/PF-ND DSPIC33FJ128GP710-I/PT-ND	13.25 11.73	7.63 6.75	6.91 6.11
	16	—	53	9/4	2	2	2	8	—	18-ch. 12-bit; 18-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128MC706-I/PT-ND	9.95	5.72	5.18
		—	69	9/—	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit					80-TQFP	DSPIC33FJ128MC708-I/PT-ND	11.03	6.34	5.74
	16	—	85	9/—	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128MC710-I/PF-ND DSPIC33FJ128MC710-I/PT-ND	13.40 11.88	7.72 6.84	6.99 6.19
256K	16	—	53	9/—	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ256GP506-I/PT-ND	9.75	5.62	5.09
	16	—	85	9/—	2	2	2	8	—	32-ch. 12-bit; 32-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ256GP510-I/PF-ND DSPIC33FJ256GP510-I/PT-ND	12.83 11.30	7.38 6.50	6.69 5.89
	16	—	85	9/—	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ256GP710-I/PF-ND DSPIC33FJ256GP710-I/PT-ND	14.30 12.78	8.23 7.35	7.46 6.66
	16	—	85	9/—	2	2	2	8	—	32-ch. 12-bit; 32-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ256MC510-I/PF-ND DSPIC33FJ256MC510-I/PT-ND	12.98 11.45	7.47 6.59	6.77 5.97
	30	—	85	9/—	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	7.37MHz, 32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ256MC710-I/PF-ND DSPIC33FJ256MC710-I/PT-ND	14.48 12.95	8.34 7.46	7.55 6.75

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)
† Cut Tape § Tape and Reel

Demo Kits

Description	Digi-Key Part No.	Price Each
PICDEM™ LIN	DM163005-ND	445.00
PICDEM™ CAN-LIN 2	DM163011-ND◆	199.99
PICDEM™ 4	DM163014-ND◆	129.99
PICDEM™ CAN-LIN 3	DM163015-ND◆	199.99
PICDEM™ 2 Plus	DM163022-ND◆	99.99
PICDEM™ FS USB Demo Board	DM163025-ND◆	59.99
Low-Power Solutions Demo Board	DM163026-ND◆	129.99
PICDEM™ Z 2.4GHZ	DM163027-4-ND◆	269.99
PICDEM™ LCD Demo Board	DM163028-ND◆	125.00
PICDEM™ Mechatronics Demo Kit	DM163029-ND◆	149.99
PICDEM™ LCD 2 Demo Board	DM163030-ND◆	125.00
PICDEM™ LCD Daughter Board	MA160011-ND	29.99
PICkit™ 2, Starter Kit	DM164120-1-ND◆	23.99
PICkit™ 2, 44-Pin Demo Board	DM164120-2-ND◆	23.99

Description	Digi-Key Part No.	Price Each
PICkit™ 2, 28-Pin Demo Board	DM164120-3-ND	24.99
PICkit™ 2, 64/80-Pin Demo Board	DM164120-5-ND◆	35.00
PICDEM™ System Management	DM164123-ND	110.00
PICDEM™ Touch Sense 1 Kit	DM164125-ND◆ ***NEW!***	139.99
PICDEM™ MC LV Dev. Board	DM183021-ND◆	99.99
PIC18FXX22 64/80-Pin TQFP Demo Board	DM183022-ND◆	59.99
Explorer 16 Dev. Board	DM240001-ND◆	129.99
Explorer 16 Dev. Board	DM240002-ND◆	129.99
dsPICDEM.net™ 1	DM300004-1-ND	389.99
dsPICDEM.net™ 2	DM300004-2-ND◆	389.99
dsPICDEM™ 2 Dev. Board	DM300018-ND◆	99.99
dsPICDEM™ 80P Starter	DM300019-ND◆	79.99

Description	Digi-Key Part No.	Price Each
dsPICDEM™ MC1	DM300020-ND◆	300.00
dsPICDEM™ SMPS BUCK Demo Board	DM300023-ND◆	149.99
dsPICDEM™ 1.1 Plus GP Demo Board	DM300024-ND◆	299.99
16-Bit, 28-Pin Demo Board	DM300027-ND	79.99
PIC32MX Starter Kit	DM320001-ND	49.99
16-Bit, 28-Pin Demo Board with ICD2	DV164027-ND	239.98
Explorer 16 Kit	DV164033-ND◆	299.99
PICkit™ 1	DV164101-ND	36.00
rfPIC™ Kit 1	DV164102-ND◆	135.00
PICtail™ Humidity Sensor Demo Board	PIC16F690DM-PCTLHS-ND◆	50.00

◆ ***RoHS Compliant***

(Continued)

MICROCHIP

Software

Description	Digi-Key Part No.	Price Each
C18 C Compiler	SW006011-ND◆	495.00
C30 C Compiler	SW006012-ND	895.00
C32 C Compiler	SW006015-ND◆ ***NEW!***	1195.00
Visual FilterLab®	SW300001-ND	249.99
Digital Filter Design Lite	SW300001-LT-ND	29.99
Soft Modem	SW300003-EVAL-ND	5.00
Speech Recognition Library	SW300010-EVAL-ND	5.00
Noise Suppression Library	SW300040-EVAL-ND◆	5.00
Symmetric Key Encryption Library	SW300050-EVAL-ND	5.00
Assymetric Key Encryption Library	SW300055-EVAL-ND	5.00
Accoustic Echo Cancellation Library	SW300060-EVAL-ND	5.00
Speech Encoding/Decoding Library	SW300070-EVAL-ND	5.00
Line Echo Cancellation Library	SW300080-EVAL-ND	5.00

Programmers, In-Circuit Debuggers, and In-Circuit Emulators

Description	Digi-Key Part No.	Price Each
ICD2 with USB Cable	DV164005-ND◆	159.99
ICD2 DV164007 with PICDEM™ 2 PLUS	DV164006-ND◆	229.99
ICD2 DV164005 with Power Supply	DV164007-ND◆	189.99
ICD2 with dsPICDEM™ 1.1	DV164032-ND◆	399.99
PICkit™ 2 Starter Kit	DV164120-ND◆	49.99
PICkit™ 2 Debug Express	DV164121-ND◆	49.99
PICSTART® PLUS	DV003001-ND◆	199.99
PM3	DV007004-ND◆	895.00
PICkit™ 2 MCU Programmer	PG164120-ND◆	34.99
ICE 2000 POD	ICE2000-ND	1000.00
Accessories		
PIC10F Hobby Kit	AC163021-ND◆	12.00
SOT23-6 Adapter	AC163020-ND◆	45.00
PICDEM™ Z Motherboard	AC163027-1-ND	89.99
ICSP Cable for MPLAB PM3	AC002021-ND◆	21.00
208/460 VAC 3-Phase Motor	AC300021-ND	120.00
Power Supply	AC162039-ND◆	24.00
Power Supply with Cable	AC162048-ND◆	29.99
SOT23-6 to 8-DIP Adapter	AC163020-2-ND	60.00
PICDEM™ Z 2.46GHz Daughter Card	AC163027-4-ND◆	39.99
Jumper Wire Kit Multi Color 5”	AC163029-ND◆ ***NEW!***	8.99
RJ-11 to ICSP Adapter	AC164110-ND◆	9.99
PM3 ICSP to RJ-11 Adapter	AC164111-ND◆	18.00
ZENA Network Analyzer	DM183023-ND◆	129.99
Demo Board LCD GPIO	GPIODM-KPLCD-ND	55.00
PIC18F25J1028L	MA180011-ND	25.00
PIC18LF25J1028L	MA180012-ND◆	25.00
PIC18F45J10 44L	MA180013-ND◆	25.00
PIC18LF45J10 44L	MA180014-ND◆	25.00
PIC18F87J10	MA180015-ND◆	25.00
PICDEM™ HPC Blank	MA180016-ND◆	18.00
PICDEM™ LCD 2 PIM Pack	MA180019-ND◆ ***NEW!***	40.00
PIC18F87J50 Full Speed USB	MA180021-ND◆ ***NEW!***	40.00
PIC18F85J90 PIM	MA180022-ND◆	25.00
PIC24H 100P	MA240012-ND◆	25.00
PIC24 44P PIM	MA240013-ND◆	25.00
PIC24 100P PIM - OTG	MA240014-ND◆ ***NEW!***	25.00
dsPIC30F 80L	MA300014-ND	25.00
dsPIC30F 80L	MA300015-ND◆	25.00
dsPICDEM™ 80-PIN	MA300016-ND◆	25.00
PIC32 100P PIM	MA320001-ND◆	25.00
PIC32 100P PIM - OTG	MA320002-ND◆ ***NEW!***	25.00
dsPIC33F GP 100P	MA330011-ND	25.00
dsPIC33F GP 84P	MA330012-ND◆	25.00
dsPIC33F MC 100P	MA330013-ND	25.00
dsPIC33 MC 100P	MA330014-ND◆ ***NEW!***	25.00
dsPIC33 GP 100P	MA330015-ND◆ ***NEW!***	25.00
dsPIC33 GP 100P	MA330016-ND◆ ***NEW!***	25.00
dsPIC33 MC 100P	MA330017-ND◆ ***NEW!***	25.00
Evaluation Board 8-SOIC	SOIC8EV-ND◆	10.00
MPLAB® ICD2 Accessories		
Universal Programming Module	AC162049-ND◆	39.99
28/40-Pin MPLAB® ICD2 Header	AC162051-ND	19.99
ICD2 Header Interfaces		
ICD2 Header for PIC12F629/675	AC162050-ND◆	25.00
ICD2 Header for PIC16F630/676	AC162052-ND◆	25.00
ICD2 Header for PIC16F627A/628A/648A	AC162053-ND◆	35.00
ICD2 Header for PIC16F716	AC162054-ND◆	35.00
ICD2 Header for PIC16F684	AC162055-ND◆	25.00
ICD2 Header for PIC16F688	AC162056-ND◆	25.00
ICD2 Header for PIC12F635, PIC16F636	AC162057-ND◆	25.00
ICD2 Header for PIC12F683	AC162058-ND◆	25.00
ICD2 Header for PIC10F, PIC12F508/9, PIC16F505	AC162059-ND◆	25.00
ICD2 Header for PIC16F785/HV785	AC162060-ND◆	35.00
ICD2 Header for PIC16F631/677/685/687/689/690	AC162061-ND◆	35.00
ICD2 Header for PIC18Fx5J1x	AC162062-ND	50.00
MPLAB® ICD2, 64/80/100	AC162064-ND◆	35.00
ICD2 Header for PIC16F639	AC162066-ND	35.00
ICD2 Header PIC18F45J10	AC162067-ND	35.00
ICD2 Breadboard Cable	AC162069-ND◆	14.99
ICD2 Header for PIC10F, PIC12F508/9	AC162070-ND◆	25.00
ICD2 Header for PIC18F45J10	AC162074-ND◆	25.00
ICD2 8/14P Header Interface	AC162078-ND	50.00
MPLAB® ICE 2000 Accessories		
ICE 2000 Power Supply	ACICE0103-ND◆	50.00
ICE 2000 Logic Probes	ACICE0104-ND	60.00
ICE 2000 Parallel Cable	ACICE0105-ND	40.00
ICE 2000 Tripod	ACICE0106-ND	30.00
ICE 2000 Flex Cable	ACICE0107-ND	55.00
ICE 2000 USB Parallel Adapter	ACICE0108-ND	99.99
MPLAB® ICE 4000 Accessories		
Adapter Plug, 18P, 300 mil.	ACICE0202-ND	20.00
Adapter Plug, 20P, 300 mil.	ACICE0203-ND◆	20.00
Adapter Plug, 28P, 300 mil.	ACICE0204-ND◆	30.00
Adapter Plug, 28P, 600 mil.	ACICE0205-ND	30.00
Adapter Plug, 40P, 600 mil.	ACICE0206-ND	40.00
PICSTART® Accessories		
84-PLCC Adapter	AC164027-ND	159.99
28-QFN Adapter	AC164031-ND◆	159.99
8-DFN Adapter	AC164032-ND◆	159.99
28-QFN Adapter	AC164033-ND	159.99
PICSTART® Firmware Module	UK003010-ND◆	29.99
PICkit™ Accessories		
PICkit ™ 1 Firmware Upgrade Kit	UK164101-ND◆	5.00
PICtail™ Daughter Board	AC164120-ND◆	25.00
PICtail™ Daughter Board	AC164121-ND◆	39.99
PICtail™ Daughter Board	AC164122-ND◆	37.99
rfPIC™ TX Module (433.92 MHz)	AC164101-ND◆	30.00
rfPIC™ TX Module (315 MHz)	AC164102-ND◆	30.00
rfRXD RCVR Module (315 MHz)	AC164104-ND◆	25.00
Ethernet PICtail™ Daughter Board	AC164123-ND◆	39.99
Speech Play Back PICtail™	AC164125-ND◆	45.00
PICtail™ Plus Prototype Daughter Board	AC164126-ND◆	20.00
PICtail™ Daughter Board	AC164124-ND	25.00
PICtail™ Plus USB Daughter Board	AC164131-ND◆ ***NEW!***	60.00
Motor Control Interface PICtail™ Plus Daughter Board	AC164128-ND◆	125.00
PICkit™ Serial I2C Demo Board	PKSERIAL-I2C1-ND◆	25.00
PICkit™ Serial SPI Demo Board	PKSERIAL-SPI1-ND◆	35.00
REAL ICE™ Accessories — RoHS Compliant		
REAL ICE™ Performance Pak	AC244002-ND	159.98
REAL ICE™ Probe Kit	DV244005-ND	499.98
REAL ICE™ Trace Kit	AC244006-ND ***NEW!***	79.99

◆ ***RoHS Compliant***

Processor Modules

Digi-Key Part No.	Price Each
PCM12XA0-ND	445.00
PCM12XB0-ND	445.00
PCM12XC0-ND◆	445.00
PCM16XA0-ND	445.00
PCM16XB1-ND	445.00
PCM16XC0-ND	445.00
PCM16XD0-ND	445.00
PCM16XE1-ND	445.00
PCM16XF0-ND	445.00
PCM16XG0-ND	445.00
PCM16XH1-ND◆	445.00
PCM16XH2-ND◆	445.00
PCM16XJ0-ND	445.00
PCM16XK1-ND◆	445.00
PCM16XL0-ND	445.00
PCM16XN0-ND	445.00
PCM16XP0-ND	445.00
PCM16XP1-ND◆	445.00
PCM16XQ1-ND	445.00
PCM16XR0-ND	445.00
PCM16XR1-ND	445.00
PCM16XS2-ND	445.00
PCM16XT0-ND	445.00
PCM16XV0-ND	445.00
PCM16XW0-ND	445.00
PCM16YB0-ND	445.00
PCM16YC0-ND	445.00
PCM16YD0-ND	445.00
PCM16YE0-ND	445.00
PCM16YF0-ND	445.00
PCM16YG0-ND	445.00
PCM16YH0-ND	445.00
PCM16YJ0-ND	445.00
PCM16YK0-ND	445.00
PCM16YL0-ND◆	445.00
PCM16YM0-ND	445.00
PCM16YN0-ND	445.00
PCM16YQ0-ND	445.00
PCM16YR0-ND◆	445.00
PCM18XB0-ND	445.00
PCM18XD1-ND	445.00
PCM18XE1-ND	445.00
PCM18XJ1-ND	445.00
PCM18XK1-ND	445.00
PCM18XL0-ND◆	445.00
PCM18XN1-ND◆	445.00
PCM18XP1-ND◆	445.00
PCM18XQ0-ND	445.00
PCM18XQ1-ND◆	445.00
PCM18XR0-ND	445.00
PCM18XR1-ND◆	445.00
PCM18XT0-ND	445.00

Device Adapters

Digi-Key Part No.	Price Each
DVA1001-ND◆	125.00
DVA1003-ND◆	125.00
DVA1006-ND◆	125.00
DVA12XP080-ND◆	125.00
DVA12XP081-ND	125.00
DVA16PQ441-ND	225.00
DVA16PQ640-ND	225.00
DVA16XL441-ND	165.00
DVA16XL680-ND	225.00
DVA16XP140-ND	125.00
DVA16XP141-ND	125.00
DVA16XP180-ND	125.00
DVA16XP182-ND	165.00
DVA16XP183-ND	165.00
DVA16XP185-ND	165.00
DVA16XP200-ND	165.00
DVA16XP201-ND	165.00
DVA16XP202-ND	165.00
DVA16XP280-ND	125.00
DVA16XP282-ND◆	165.00
DVA16XP401-ND	165.00
DVA17PQ441-ND	225.00
DVA17PQ641-ND	225.00
DVA17PQ801-ND	225.00
DVA17XL441-ND	165.00
DVA17XL681-ND	225.00
DVA17XL841-ND	165.00
DVA17XP401-ND	125.00
DVA18PQ440-ND◆	225.00
DVA18PQ640-ND	225.00
DVA18PQ800-ND	225.00
DVA18PQ802-ND	225.00
DVA18XL680-ND	225.00
DVA18XL840-ND	225.00
DVA18XP180-ND◆	165.00
DVA18XP280-ND	165.00
DVA18XP400-ND◆	165.00

Transition Sockets

Digi-Key Part No.	Price Each
XLT06SOT-ND◆	18.00
XLT08DFN2-ND	75.00
XLT08SN-1-ND	75.00
XLT08SO-1-ND	75.00
XLT14SO-1-ND	125.00
XLT14SS-1-ND	125.00
XLT16QFN1-ND	40.00
XLT18SO-1-ND	125.00
XLT20SS-1-ND	125.00
XLT28QFN3-ND	175.00
XLT28QFN4-ND	40.00
XLT28SO-1-ND	125.00
XLT28XP-ND	75.00
XLT44L2-ND	175.00
XLT44PT3-ND◆	225.00
XLT44QFN2-ND	175.00
XLT44QFN3-ND	125.00
XLT44QFN4-ND	125.00
XLT44QFN5-ND	125.00
XLT64PT3-ND	125.00
XLT64PT5-ND◆	225.00
XLT80PT3-ND◆	250.00

Socket Modules

Digi-Key Part No.	Price Each
AC002012-ND	33.00
AC002013-ND◆	50.00
AC124002-ND	159.99
AC164014-ND	159.99
AC164022-ND	159.99
AC164023-ND	159.99
AC164027-ND	159.99
AC164028-ND	159.99
AC164029-ND	159.99
AC164030-ND	159.99
AC164035-ND◆	159.99
AC164036-ND	159.99
AC164038-ND	159.99
AC164301-ND◆	189.99
AC164302-ND◆	189.99
AC164303-ND◆	189.99
AC164305-ND◆	189.99
AC164306-ND◆	189.99
AC164307-ND◆	189.99
AC164308-ND	189.99
AC164309-ND◆	189.99
AC164310-ND	189.99
AC164311-ND	189.99
AC164312-ND◆	189.99
AC164313-ND	189.99
AC164315-ND	189.99
AC164317-ND	189.99
AC164318-ND	189.99
AC164321-ND◆	189.99
AC164322-ND◆	189.99
AC164323-ND	189.99
AC164324-ND◆ ***NEW!***	189.99
AC164325-ND	189.99
AC164326-ND◆ ***NEW!***	189.99
AC164327-ND◆	189.99
AC164328-ND	189.99
AC164329-ND◆	189.99
AC164330-ND	189.99
AC164331-ND◆	189.99
AC164332-ND	189.99
AC164333-ND◆	289.99
AC164338-ND◆	189.99
AC164339-ND◆	189.99
AC164335-ND	189.99
AC164336-ND	289.99
AC164337-ND	189.99
AC164350-ND◆	129.99
AC174002-ND	159.99
AC174011-ND	159.99
AC174012-ND	159.99
AC254001-ND	159.99
AC30F001-ND	159.99
AC30F002-ND	159.99
AC30F003-ND	159.99
AC30F004-ND	189.99
AC30F005-ND	189.99

◆ ***RoHS Compliant***

iMAGEcraft C-Compiler

C-Compiler for ARM®: Features: STD: • ANSI C-Compiler for ARM code generation • IDE with Application Builder, editor, project manager, code browser • Support of ELF/DWARF debugging • Help files available as HTML Help and PDF file **ADV:** • Standard + Thumb code generation **PRO:** • Includes Global Optimizer • Improve program size and runtime speed by 10 ~ 15% **C-Compiler for AVR®: Features:** • ICCAVR supports all AT90S and ATmega devices (except for 1200, which does not have SRAM), Tiny26, and AT94K FPSLIC. ANSI C-Compiler: • Modern fast C-Compiler with FULL support for the ANSI C language • Not micro-C or extended K&R C • 32-bit longs, 32-bit IEEE single precision floating point **Professional Version ICCAVR PRO:** • Code Compressor Optimizer, which reduces final code by 8 ~ 18%. This state-of-the-art whole-program optimizer is not available in any other commercial embedded compilers. **C-Compiler for Freescale Microcontrollers: Features:** • ANSI C embedded systems development tools with comprehensive target support for Freescale Microcontrollers • Write interrupt handlers in C • Supports inline assembly and can interface with assembly modules • ANSI C-Compiler: Modern fast C-Compiler with FULL support for the ANSI C language, NOT micro-C or extended K&R C • 32-bit longs, 32-bit IEEE single precision floating point **C-Compiler for TI MSP430: Features:** • ANSI C embedded systems development tools with comprehensive target support for TI MSP430 Microcontrollers • Write interrupt handlers in C • Supports inline assembly and can interface with assembly modules • ANSI C-Compiler: Modern fast C-Compiler with FULL support for the ANSI C language, NOT micro-C or extended K&R C • 32-bit longs, 32-bit IEEE single precision floating point

Supported ARM Devices			
Device	**Header File**	**IDE Device Selection**	**Application Builder**
Atmel SAM7S/SAM7A	✓	✓	✓
Atmel AT91 ARM7	✓	✓	✓
Atmel SAM7X	✓	✓	—
NXP LPC21xx	✓	✓	✓
NXP LPC22xx	✓	✓	—
NXP LPC23xx	✓	✓	—
Analog Device ADuC702x	✓	✓	—
ST STR71x	✓	✓	—
ST STR73x	✓	✓	—
ST STR91x	✓	✓	—

Target CPUs	Code Memory Size	Code Browser	Code Compressor	Debuggers	Application Builder	Optimizations	Digi-Key Part No.	Price Each
C-Compiler for ARM								
See Chart	Size of Device	Yes	No	Elf/Dwarf	Yes (See Chart)	Register Allocation, Peephole	ICCV7 ARM STD-ND ICCV7 ARM ADV-ND◆ ICCV7 ARM PRO-ND◆	458.33 658.33 575.00
C-Compiler for AVR								
C-Compiler for AVR	Up to 64K Bytes	Yes	No	AVR Studio, Flash Studio+	Yes	Register Allocation, Peephole	ICCV7 AVR STD-ND	458.33
C-Compiler ADV for AVR	Up to 128K Bytes	Yes	Yes	AVR Studio, Flash Studio+	Yes	Register Allocation, Peephole	ICCV7 AVR ADV-ND	658.33
C-Complier PRO for AVR	Up to 128K Bytes	Yes	Yes	AVR Studio, Flash Studio+	Yes	Register Allocation, Peephole	ICCV7 AVR PRO-ND◆	575.00
C-Compiler for Freescale Microcontrollers								
Freescale HC08	Up to 64K Bytes	Yes	No Yes	ICD08	Yes	Peephole, Direct Page Addressing	ICC08 STD-ND ICC08 PRO-ND	199.00 349.00
Freescale HC11	Up to 64K Bytes	Yes	No	HC11 Debugger	No	Peephole	ICC11 STD-ND	199.00
Freescale HC12 / S12 / X	Up to 64K Bytes	Yes	No	HC12 ICD NoICE12	No	Peephole	ICCV7 CPU12 STD-ND◆ ICCV7 CPU12 ADV-ND◆	458.33 658.33
Freescale HC12 / S12 / X	4M Bytes using HC12 Expanded Memory Feature	Yes	No	HC12 ICD	No	Peephole	ICCV7 CPU12 PRO-ND◆	575.00
C-Compiler for TI MSP430								
Texas Instruments TI MSP430	Up to 64K Bytes	Yes	No	ICC430 built-in	Yes	Register Allocation, Peephole	ICCV7 430 STD-ND	458.33
Texas Instruments TI MSP430	Up to 128K Bytes	Yes	Yes	ICC430 built-in	Yes	Register Allocation, Peephole	ICCV7 430 ADV-ND	658.33
Texas Instruments TI MSP430	Up to 128K Byes	Yes	Yes	ICC430 built-in	Yes	Register Allocation, Peephole	ICCV7 430 PRO-ND	575.00

◆ ***RoHS Compliant***

IARM-2103-ND	NXP LPC2103 ARM7 based, Single Board Computer with USB — ***RoHS Compliant***	**$89.00**

NEW! HI-TECH SOFTWARE C-Compilers

RoHS COMPLIANT

HI-TECH PICC STD Compiler: Features: • ANSI C - full featured and portable • Reliable - mature, field-proven technology • Multiple C optimization levels • An optimizing assembler • Full linker, with overlaying of local variables to minimize RAM usage • Comprehensive C library with all source code provided • Includes support for 24-bit and 32-bit IEEE floating point and 32-bit long data types • Mixed C and assembler programming • Unlimited number of source files • Listings showing generated assembler • Compatible - integrates into the MPLAB® IDE, MPLAB ICD2 and most third-party development tools • Runs on multiple platforms: Windows (up to Vista64), Linux, and Mac OS X

778-1000-ND (019) **$995.00**

HI-TECH PICC-18 STD Compiler: Features: • ANSI C - full featured and portable • Reliable - mature, field-proven technology • Modular - includes full object code linker and library manager • Cost-effective - productivity gains rapidly repay purchase cost • Compatible - integrates into the MPLAB® IDE, MPLAB ICD2 and most third-party development tools • Library source - for standard libraries and sample code for various peripherals and applications • Complete - includes macro assembler, preprocessor and one-step driver • Can run on multiple platforms - Windows (up to Vista64), Linux, and Mac OS X

778-1001-ND (015) **$995.00**

PICC-18 PRO: Features: • Integrates HI-TECH Software's IDE, HI-TIDE™ 3 • Integrates into the MPLAB® IDE, MPLAB ICD2 and most third-party development tools • Includes Library source - for standard libraries and sample code for I/O drivers • Includes macro assembler, linker, preprocessor, and one-step driver • Can run on multiple platforms: Windows (including 32-bit Vista), Linux and Mac OS X

778-1002-ND (015P) **$1495.00**

DSPIC3x/PIC24: Features: • ANSI C - full featured and portable, supporting all standard data types • Reliable - based on mature, field-proven technology used in our PICC and PICC18 compilers • Unlimited number of source files • Multiple optimization levels and types • Comprehensive C library with all source code provided • Mixed C and assembler programming • Listings showing generated assembler • Optimizing assembler • Compatible - integrates into the MPLAB® IDE, MPLAB ICD 2

778-1003-ND (025) **$1195.00**

PICC Enterprise: Features: • The HI-TECH C PRO for the PIC10/12/16 MCU Family compiler supporting all 10/12/14/16 series processors • The PICC-18 PRO compiler supporting all 18 series processors • The HI-TECH for dsPIC/PIC24 compiler supporting all PIC24, dsPIC30 and dsPIC33 processors • Includes printed manuals for HI-TECH C PRO for the PIC10/12/16 MCU Family, PICC-18 PRO and HI-TECH for dsPIC/PIC24 compilers

778-1004-ND (099) **$3195.00**

PSoC Mixed-Signal Array: Features: • Runs on Windows platform up to 64-bit Vista • Fully integrates into PsoC Designer™, the IDE for the Cypress PSoC Mixed-Signal Array, providing full compatibility with projects generated by PSoC Designer • Also comes in Lite Mode which is now the compilation technology within PSoC Express

778-1005-ND (028) **$1495.00**

CCS Inc C-Compilers and Debuggers

C-Compiler for PICmicro® MCUs: C-Compiler for 12Bit, 14Bit and PIC18 PICmicro MCUs. This Integrated C Development Environment gives developers the capability to produce efficient code from an easily maintainable high level language. With full standard C compatibility, a full featured, Windows IDE with built-in functions and example programs, you will be able to develop embedded solutions for the full line of PICmicro MCUs. **ICD-S40:** This ICD unit communicates to the PC and the debugging software over an RS232 connection and operates at a 40MHz clock frequency resulting in quick debug times (RS232 serial cable included). The ICD-S40 is powered from the target board. The target board needs to supply 5 volts to the ICD. **ICD-U40:** This ICD unit connects to the PC and the debugging software over USB. It operates at a 40MHz clock frequency resulting in quick debug times (USB cable included). The ICD-U40 is powered from the USB bus and can optionally power your target board (5V only).

429-1000-ND	C-Compiler (PCWH)	**$500.00**
429-1001-ND	C-Compiler for 12 bit PIC's	**$50.00**
429-1002-ND	C-Compiler for 14 bit PIC's	**$150.00**
429-1003-ND	C-Compiler for PIC18	**$200.00**
429-1004-ND	C-Compiler for 12-14 bit PIC's	**$350.00**
429-1005-ND	In-Circuit Debugger ICD-S40 (Serial)	**$75.00**
429-1006-ND	In-Circuit Debugger ICD-U40 (USB)	**$75.00**
429-1007-ND	C-Compiler for MCU DSPIC	**$250.00**
429-1008-ND	C-Compiler for MCU DSPIC with IDE	**$350.00**
429-1009-ND	C-Compiler (PCWHD)	**$600.00**

CCS Wireless-Ember ZigBee™ Edition Development Kit Includes: • Two sensor boards with PIC16LF886 processor chips and EM260 modules • One base station board with PIC18LF4620 processor chip and EM260 module • Carrying Case • Exercise Booklet and Ember Documentation • In-Circuit Debugger/Programmer • DC Adapters (9VDC) • Serial PC to Prototyping Board Cable • Modular Cable (ICD to Prototyping Board) • USB (or serial) PC to ICD cable • Two 9V batteries

429-1011-ND	Wireless-Ember Zigbee™ Kit	**$724.00**

Feature Comparison	PCB	PCM	PCH	PCW	PCWH
Command Line Compiler	✓	✓	✓	✓	✓
Built-in Functions	✓	✓	✓	✓	✓
Example Programs	✓	✓	✓	✓	✓
Device Drivers	✓	✓	✓	✓	✓
MPLAB Interface	✓	✓	✓	✓	✓
Windows IDE				✓	✓
C Aware Editor				✓	✓
New Project Wizard				✓	✓
Debugger				✓	✓
Device Selector/Editor				✓	✓
Call Tree and Memory Map	✓	✓	✓	✓	✓
Statistics				✓	✓
Special Viewers				✓	✓
Serial Port Utility				✓	✓
12bit Support	✓			✓	✓
14bit Support		✓		✓	✓
PIC18 Support			✓		✓

microEngineering Labs, Inc. PicBasic Pro Compiler

PicBasic Pro converts your BASIC programs into files that can be programmed directly into a PICmicro® MCU. Full support for 14-bit and 16-bit MCUs. Limited support for 12-bit MCUs. The PicBasic Pro Compiler features BASIC commands, direct and library routine access to pins on PORTA, C, D, E, as well as PORTB, arrays, real IF..THEN..ELSE and interrupt processing in BASIC. Includes Code Designer Lite, a Windows integrated development environment (IDE) that is compatible with our PicBasic Pro Compiler. Comes with Software, Manual with instruction set and explanations and directions. Works on any version of Dos or Windows with CodeDesigner Lite. Windows95, 98, 2000, XP and ME compatible. The LAB-X1A is an independent hardware platform, similar to the Microchip PICDEM™. It can run programs written in any language, including C, Assembly, and PicBasic. Includes 40 Pin Zif Socket, LCD display, memory, Rs232 port, Pots for ADCs and many extras.

444-1000-ND	PicBasic Pro Compiler	**$249.95**
444-1001-ND	LAB-X1 Experimenter Board	**$199.95**

QuickWriter™ Programmer

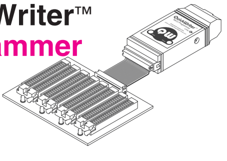

Shown with 4 Gang Adapter (not included). Programming adapters must be purchased separately.

QuickWriter comes with power supply, serial cable and in circuit programming cable. Adapter required when not using ICSP cable. One programmer for all of your PIC® MCU development needs: • In-circuit Serial Programming • 4 Gang Serial device programming • Single device programming (serial and parallel)

QuickWriter is a low cost programmer with these advanced features: • Over-sized drivers and power supply to properly support multiple device programming and in-circuit programming • Measures programming voltages and current to verify proper target connections or device insertions • Flash firmware updates • Data table driven • New devices are supported with free data table downloads from the TechTools web site (www.tech-tools.com) • Programs ALL 12-bit, 14-bit and 18-bit series Microchip PIC processors. This includes all 12C, 14000, 16C, 16F, 18C and 18F families • Includes the TechTools Development Environment (TDE™), a full featured, Windows hosted IDE. TDE supports development with all popular PIC MCU compilers and assemblers. TDE includes a multi-file editor, integrated MAKE and one-click cross referencing of compiler errors. TDE also interfaces to the TechTools ClearView™ Mathias (not included) for full featured, real-time, in-circuit emulation and source level debugging. • Includes TechTools PIC MCU assembler, CVASM16™ which supports ALL 12-bit and 14-bit PIC MCU processors. CVASM16 assembles Parallax source files (SPASM format) and accepts Microchip mnemonics. • Compatible with existing TechTools and Parallax programming adapters • Accepts HEX files generated by all popular PIC MCU compilers and assemblers • Supports auto-incrementing serialization • Runs under Win95 through XP as well as NT through XP Pro • Includes serial cable, in-circuit programming cable and power supply

Description	Digi-Key Part No.	Price Each	TechTools Part No.
Programmer			
PICmicro® MCU	QW1-ND	199.00	QW1
Adapters			
40-Pin ZIFX	MP-ZIF40-ND†	49.00	MP-ZIF40
18/28-Pin ZIF	MP-ZIF18/28-ND	69.00	MP-ZIF18/28
14-Pin ZIF	MP-ZIF14-ND	59.00	MP-ZIF14
44-Pin PLCC	MP-PLCC44-ND	129.00	MP-PLCC44
28-Pin SOIC	MP-SOIC28-ND	129.00	MP-SOIC28
18-Pin SOIC	MP-SOIC18-ND	79.00	MP-SOIC18
8/14-Pin SOIC	MP-SOIC8/14-ND	89.00	MP-SOIC814
PIC14000	MP-14000-ND	59.00	MP-14000
28-Pin SSOP	MP-SSOP28-ND	99.00	MP-SSOP28
18-Pin SSOPX	MP-SSOP18-ND	79.00	MP-SSOP18
4 Gang Adapters for QuickWriter			
40-Pin ZIF	QW-4ZIF40/28-ND†	199.00	QW-4ZIF40/28
44-Pin PLCC	QW-4PLCC44-ND	199.00	QW-4PLCC44
28-SOIC	QW-4SOIC28-ND	249.00	QW-4SOIC28
18-Pin ZIF	QW-4ZIF18-ND	199.00	QW-4ZIF18
18-Pin SOIC	QW-4SOIC18-ND	249.00	QW-4SOIC18
8/14-Pin Narrow SOIC	QW-4SO8/14N-ND	249.00	QW-4SO8/14N
8/14-Pin Wide SOIC	QW-4SO8/14W-ND	249.00	QW-4SO8/14W

† Use with 28 and 40-Pin 14 bit dip parts.

PIC Emulators ClearView™ Mathias

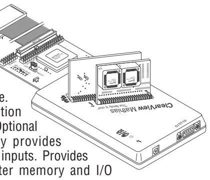

CVM1 supports emulation for 16C5X and 16CXX devices using Microsoft Windows™ for a complete integrated design environment. "Family" modules select 5X or XX device family, while "Member" modules select specific device. Optional timing module shows execution time and number of processor cycles. Optional 16K trace buffer module additionally provides execution history and 8 external trace inputs. Provides full emulation of program and register memory and I/O activity with unlimited hardware breakpoints. Built-in PLL oscillator generates any frequencies from 32KHz to 33MHz.

System requirements: IBM PC or compatible, VGA monitor, serial port, 3.5" disk drive, and Windows™ 3.1, Win95, Win98 or NT

Description	Digi-Key Part No.	Price Each	TechTools Part No.
Family Module			
Advanced 14 Bit Family Module w/Data Breakpoints	CVM04F-ND	200.00	CVM04F
PIC16C5X Family Module	CVM5XF-ND	150.00	CVM5XF
Member Module			
PIC16C55X/62X/CE62X	CVM001M-ND	200.00	CVM001M
PIC12C508/509	CVM50XM-ND	75.00	CVM50XM
PIC16C50X/CE51X/16C505	CVM5XXM-ND	100.00	CVM5XXM
PIC12C671/672	CVM67XM-ND†	100.00	CVM67XM
PIC16C5X	CVM5XM-ND	50.00	CVM5XM
PIC16C554/556/558	CVM55XM-ND	100.00	CVM55XM
PIC16C61	CVM61M-ND	100.00	CVM61M
PIC16C62X	CVM62XM-ND	100.00	CVM62XM
PIC16C62X/61/71/84	CVM6/8M-ND	200.00	CVM6/8M
PIC16C641/642/661/662	CVM66XM-ND	200.00	CVM66XM
PIC16C715	CVM715M-ND	100.00	CVM715M
PIC16C70,71,710,711	CVM711M-ND	100.00	CVM711M
PIC16C62-65/72-74	CVM7XM-ND	200.00	CVM7XM
PIC16C66/67/76/77	CVM77M-ND	200.00	CVM77M
PIC16C773,774	CVM77XM-ND	200.00	CVM77XM
PIC16F627/628	CVMF628M-ND	200.00	CVMF628M
PIC16F83,F84,C83,C84	CVMF84M-ND	100.00	CVMF84M
PIC16F873,874,876,877	CVM87XAM-ND	200.00	CVM87XM
PIC16F73/F74/F76/F77	CVMF77M-ND	200.00	CVMF77M
PIC16F870/F871	CVM871M-ND	200.00	CVM871M
Trace Buffer and Timing Module			
Mathias Timing Module	CVMT1-ND	130.00	CVMT1
Mathias Trace Buffer and Timing Module	CVMT2-ND	270.00	CVMT2
Kit Module			
Firmware/Logic Field Upgrade Kit	CVM1-FWL-ND*	55.00	CVM1-FWL
Adapter			
PIC16C712C716	ADP716-ND§	35.00	ADP716

† Requires the CVM03F Family Module § Requires Member Module CVM77M

* For use with TDE 4.0 software features of: Stack Viewing, Variable Trace Size, faster Step-out function and faster Register Window Updates. Contains firmware V2.2 and UC13 Ver C.

DigiView™ Logic Analyzer

Features: • 18 Channels @ 100MHz (10ns) • USB interface and power source for portability • Real-time hardware compression • Eliminates resolution vs. depth trade-offs • Compression ratio up to 256,000:1 depending on activity • Trigger on rising, falling or transition of any channel • Multi-channel high, low and don't care trigger qualifier • Pre-trigger and post-trigger data capture

DV1-100-ND Logic Analyzer **$499.00**

Features: • 36 Channels @ 200MHz (5ns) • 18 Channels @ 400MHz (2.5ns) • Multiple, Automatic Compression techniques • Advanced Universal Match Circuits (8) • Selectable Match Types (9) • ±6 volt Adjustable Threshold (2) • Flexible, Cascadable Sequencers (4x4) • Sequencer Counters (16 @ 1M count each) • Graphical Trigger Layout(s) • New Software (version 4.0) • Continues operation even if PC powers off • Trigger-Out BNC connection • External Power Supply • USB 2.0 with USB 1.1 compatibility • All Cables, Clips and software included

DV3400-ND Logic Analyzer **$1499.00**
CBL-DV3-ND Cable Replacement **$35.00**
CLIP3-10-ND Clip Replacement **$35.00**

ER3 EconoROM III Economical EPROM Emulator

EconoROM III is designed for quick, in-circuit firmware test cycles. Eliminate the "burn/insert/test/remove/erase" cycle. The ER3 will speed up your firmware development by eliminating the need to remove-erase-program and re-install EPROMs each time you test a code change. These devices plug into the EPROM socket on your target board and emulate the EPROM throughout the development process. **Features:** • Integrated Low-Voltage Support • Target Voltage Sense and Measurement • External Power Option • Jumper-less Address Configuration • Up to 8Mbit Emulation in a single unit • Fast Downloads (up to 2.5 Mbit per second) • Replaces standard EPROM device during development • Connects to any Parallel Port • Auto/Manual Target Reset on download • Read-back, Verify and Self-test functions • Daisy-chain cable included • LPT cable (8 wire Modular Cable and DB25 adapter) included • Target cables (standard IDC to DIP Ribbon Cable) included • Includes 2 versions of software: 16 bit DOS version and 32 bit Win9X/NT/2000 version • QuickLoader with Full-screen editor included • Batchable loader and utilities included • Accepts Intel HEX, Tektronix HEX, Motorolla 'S' records and binary files • Free software updates via WEB downloads

Capacity	Cables Supplied	Speed	Digi-Key Part No.	Price Each
256Kbit/ 32K x 8	28-Pin Dip	45ns	ER3-256-ND	179.00
512Kbit/ 64K x 8	28-Pin Dip	45ns	ER3-512-ND	239.00
1Mbit/ 128K x 8	28 and 32-Pin Dip	45ns	ER3-1M-ND	299.00
4Mbit/ 512K x 8	28 and 32-Pin Dip	45ns	ER3-4M-ND	399.00
8Mbit/ 1M x 8	28 and 32-Pin Dip	45ns	ER3-8M-ND	499.00

FR3 FlexROM III FLASH, EPROM and SRAM Emulator

FlexROM III emulators provide engineers with a fast flexible development tool for any Embedded project that uses an external FLASH, EPROM or SRAM device. The FR3 increases productivity by elimination of the "burn/insert/test/erase" cycle and by downloading firmware code or data into the emulator at a fast 2.5 Mbits per second. **Features:** • Active Cable Modules (ACM™) contain Target interface and Control Logic • Provides adaptability to new Target Technologies • Hard-ware Instrumentation: Target Voltage Measurement, Address Snap-Shot Circuit, Address Match and Trigger Circuit • Reverse Voltage Protection • Adjustable Timing Parameters • Read-back, Verify and Self-test functions • Connects to any Parallel Port • All sizes and speeds can be Daisy-chained together • Daisy-chain cable included • Mini-clip cable included for Reset connection • LPT cable included • Target cable(s) included • Includes 2 versions of software: 16 bit DOS version and 32 bit Win9X/NT/2000 version • QuickLoader with Full-screen editor included • Batchable loader and utilities included • Accepts Intel HEX., Tektronix HEX, Motorolla 'S' records and binary files • Free software updates via WEB downloads

Description	Digi-Key Part No.	Price Each
Active Cable Module (ACM™)		
8 Bit Interface with/DIP28 and DIP32 Cable	ACM-8-ND	120.00
16 Bit Interface with/DIP40 Cable	ACM-16-ND	120.00

Size	Organization	Speed	Digi-Key Part No.	Price Each
Base Unit*				
1 Mbit	128Kx8/64Kx16	45ns	FR3-1M-ND	279.00
4 Mbit	512Kx8/256Kx16	45ns	FR3-4M-ND	379.00
8 Mbit	1Mx8/512Kx16	45ns	FR3-8M-ND	529.00
16 Mbit	2Mx8/1Mx16	45ns	FR3-16M-ND	679.00

*Base Unit requires at least one ACM™ target interface

ICEPIC, ICEPIC2 and ICEPIC3 PIC Emulators

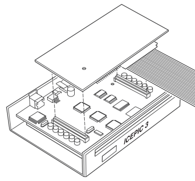

ICEPIC, ICEPIC2, and the ICEPIC3 emulators are fully modular, full speed, real time, in-circuit emulator systems, for use with Microchip PIC processors, using interchangeable "personality daughterboards" which connect directly to the users target board and are sold separately.

The ICEPIC3 Emulator is compact, portable, lightweight and offers exceptional performance and value. It uses a quick "hot" connection to the host computer via USB Port, with the system firmware being upgraded at any time from the internet giving total upgrade ability. The ICEPIC3 has additional real-time analysis when using the plug-in trace board which is sold separately.

All ICEPIC emulators operate within Microchip's MPLAB 32bit IDE giving the user easy control to perform efficient fast emulation. ICEPIC emulators are supplied as complete systems with power supply, cables, manual and a copy of Microchip's MPASM assembler.

Features	ICEPIC	ICEPIC2	ICEPIC3
Real-Time Emulation	32kHz ~ 20MHz	32kHz ~ 33MHz	1kHz ~ 50MHz
Device Emulated	12C, 16C	12C, 16C, 17C	PIC12, 16, 18
Runs Under MPLAB	Yes	Yes	Yes
Source Level Debug	Yes	Yes	Yes
"C" Source Level Debug	Yes	Yes	Yes
Real Time Trace	No	Yes	Yes†
Time Stamp	Yes	Yes	Yes†
Freeze Mode	Yes	Yes	Yes
Break Points	Unlimited	Unlimited	Unlimited
Stack Breaks	Yes	Yes	Yes
WDT Breaks	Yes	Yes	Yes
Stack View	Yes	Yes	Yes
Custom Watch	Yes	Yes	Yes
Assembler Support	MPASM	MPASM	MPASM
Communications	RS-232"C"	RS-232"C"	USB

† Using optional Modular Trace Board I3-TRACER1-ND

Description	Digi-Key Part No.	Price Each
ICSP Adaptor		
In-Circuit Serial Programming Adaptor	ISPICR1-ND	60.00
ICEPIC Emulators		
ICEPIC Emulator System	ICEPIC-ND	542.77
ICEPIC2 Emulator System	ICEPIC2-ND	820.00
ICEPIC3 Emulator System	ICEPIC3-US-ND	900.00
ICEPIC Daughter Boards		
12C671, 16C672	DB12C67X-ND	375.00
16C554, 16C556, 16C558	DB55X-ND	375.00
16C620, 16C621, 16C622	DB62X-ND	375.00
16C641/642/661/662	DB66X-ND	450.00
16C61, 16C71, 16C710, 16C711	DB711-ND	375.00
16C715	DB715-ND	375.00
16C62/63/64/65/72/73/74	DB74A-ND	450.00
16C66, 16C67, 16C76, 16C77	DB77-ND	450.00
16C772, 16C773, 16C774	DB77X-ND	375.00
16C84, 16F83, 16F84	DB84A-ND	375.00
17C42/43/44, 17C752/756 (ICEPIC2 Only)	DB756-ND	375.00
16F628	DBF628-ND	375.00
16F73, 16F74, 16F76, 16F77	DBF77-ND	450.00
16F870/71	DBF871-ND	335.00
Accessories		
44-Pin PLCC Adapter (For emulation of 16Cxx In PLCC Only)	PLCC44-RF-ND	125.00
ICEPIC3 Daughter Boards		
12F675, 12F629	I3DB12F675-ND	500.00
12F683	I3-DB12F683-ND	500.00
16F684A	I3-DB16F84A-ND	500.00
16F716	I3-DB16F716-ND	500.00
16F871, 16F870	I3-DB16F871-ND	500.00
18C452/442/252/242	I3DB18C452-ND	500.00
18F2220/2320/4220/4320	I3DB18F4320-ND	500.00
18F452/442/252/242	I3DB18F452-ND	500.00
18F1320, 18F1220	I3-DB18F1320-ND	500.00
18F4431/4331/2431/2331	I3-DB18F4431-ND	500.00
18F4550/2455/2550/4445	I3-DB18F4550-ND	500.00
18F4620/4525/2620/2525	I3DB18F4620-ND	500.00
18F4680/2680/2585/4685	I3-DB18F4680-ND	500.00
16F872A/873A/874A/876A/877A	I3DB877A-ND	500.00
16F627A, 16F628A, 16F648A	I3DBF648-ND	500.00
16F676, 16F630	I3DBF676-ND	500.00
16F72, 16F73, 16F74, 16F76, 16F77	I3DBF77-ND	500.00
16F737, 16F767, 16F747, 16F777	I3DBF777-ND	500.00
16F818, 16F819	I3DBF819-ND	500.00
16F87, 16F88	I3DBF88-ND	500.00
Trace Boards		
ICEPIC3 Trace Board	I3-TRACER1-ND	1025.00

MICROCHIP Power Management

CPU/System Supervisors

Nominal Reset Voltage (V)	Reset Type	Output	Watchdog Timer	Manual Reset	Vcc Range (V)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Tape and Reel* Qty.	Tape and Reel* Pricing
2.625	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-270DI/TO-ND◆	.33	.29	.26	—	—
2.925							MCP100-300DI/TO-ND◆	.33	.29	.26	—	—
3.075							MCP100-315DI/TO-ND◆	.33	.29	.26	—	—
4.375							MCP100-450DI/TO-ND◆	.33	.29	.26	—	—
4.475							MCP100-460DI/TO-ND◆	.33	.29	.26	—	—
4.725							MCP100-485DI/TO-ND◆	.33	.29	.26	—	—
2.625	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP100-270HI/TO-ND◆	.33	.29	.26	—	—
2.925							MCP100-300HI/TO-ND	.33	.29	.26	—	—
3.075							MCP100-315HI/TO-ND	.33	.29	.26	—	—
4.375							MCP100-450HI/TO-ND◆	.33	.29	.26	—	—
4.625							MCP100-475HI/TO-ND◆	.33	.29	.26	—	—
4.725							MCP100-485HI/TO-ND◆	.33	.29	.26	—	—
2.625	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23-5	MCP100T-270I/TTCT-ND◆†	.36	.33	.30	3,000	260.00/M
2.925							MCP100T-300I/TTCT-ND◆†	.36	.33	.30	3,000	260.00/M
3.075							MCP100T-315I/TTCT-ND◆†	.36	.33	.30	3,000	260.00/M
4.375							MCP100T-450I/TTCT-ND†	.36	.33	.30	3,000	260.00/M
4.475							MCP100T-460I/TTCT-ND◆†	.36	.33	.30	3,000	260.00/M
4.625							MCP100T-475I/TTCT-ND◆†	.36	.33	.30	3,000	260.00/M
4.725							MCP100T-485I/TTCT-ND†	.36	.33	.30	3,000	260.00/M
2.625	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-270DI/TO-ND◆	.33	.29	.26	—	—
2.925							MCP101-300DI/TO-ND◆	.33	.29	.26	—	—
3.075							MCP101-315DI/TO-ND◆	.33	.29	.26	—	—
4.375							MCP101-450DI/TO-ND◆	.33	.29	.26	—	—
4.475							MCP101-460DI/TO-ND◆	.33	.29	.26	—	—
4.625							MCP101-475DI/TO-ND◆	.33	.29	.26	—	—
4.725							MCP101-485DI/TO-ND◆	.33	.29	.26	—	—
2.625	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP101-270HI/TO-ND◆	.33	.29	.26	—	—
2.925							MCP101-300HI/TO-ND	.33	.29	.26	—	—
3.075							MCP101-315HI/TO-ND	.33	.29	.26	—	—
4.375							MCP101-450HI/TO-ND◆	.33	.29	.26	—	—
4.475							MCP101-460HI/TO-ND	.33	.29	.26	—	—
4.625							MCP101-475HI/TO-ND◆	.33	.29	.26	—	—
4.725							MCP101-485HI/TO-ND◆	.33	.29	.26	—	—
1.900	Active Low	Push-Pull	No	No	1.0 ~ 5.5	TO-92	MCP102-195I/TO-ND◆	.48	.42	.38	—	—
						SC-70	MCP102T-195I/LBCT-ND◆†	.53	.48	.43	3,000	380.00/M
						SOT-23B	MCP102T-195I/TTCT-ND◆†	.53	.48	.43	3,000	380.00/M
						SC-70	MCP103T-195I/LBCT-ND◆†	.53	.48	.43	3,000	380.00/M
						SOT-23B	MCP103T-195I/TTCT-ND◆†	.53	.48	.43	3,000	380.00/M
2.625	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP120-270DI/TO-ND◆	.43	.38	.34	—	—
2.925							MCP120-300DI/TO-ND◆	.43	.38	.34	—	—
4.375							MCP120-450DI/TO-ND◆	.43	.38	.34	—	—
4.475							MCP120-460DI/TO-ND◆	.43	.38	.34	—	—
4.625							MCP120-475DI/TO-ND◆	.43	.38	.34	—	—
4.725							MCP120-485DI/TO-ND◆	.43	.38	.34	—	—
2.625	Active Low	Open Drain	No	No	1.0 ~ 5.5	SOT-23	MCP120T-270I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
2.925							MCP120T-300I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
3.075							MCP120T-315I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.375							MCP120T-450I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.475							MCP120T-460I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.625							MCP120T-475I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.725							MCP120T-485I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
1.900	Active Low	Open Drain	No	No	1.0 ~ 5.5	TO-92	MCP121-195I/TO-ND◆	.48	.41	.37	—	—
						SC-70	MCP121T-195I/LBCT-ND◆†	.53	.48	.43	3,000	370.00/M
						SOT-23B	MCP121T-195I/TTCT-ND◆†	.53	.48	.43	3,000	370.00/M
2.625	Active Low	Open Drain ‡	No	No	1.0 ~ 5.5	TO-92	MCP130-270DI/TO-ND◆	.43	.38	.34	—	—
2.925							MCP130-300DI/TO-ND◆	.43	.38	.34	—	—
3.075							MCP130-315DI/TO-ND◆	.43	.38	.34	—	—
4.375							MCP130-450DI/TO-ND◆	.43	.38	.34	—	—
4.475							MCP130-460DI/TO-ND◆	.43	.38	.34	—	—
4.625							MCP130-475DI/TO-ND◆	.43	.38	.34	—	—
4.725							MCP130-485DI/TO-ND◆	.43	.38	.34	—	—
2.625	Active Low	Open Drain ‡	No	No	1.0 ~ 5.5	SOT-23	MCP130T-270I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
2.925							MCP130T-300I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
3.075							MCP130T-315I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.375							MCP130T-450I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.475							MCP130T-460I/TTCT-ND†	.48	.43	.39	3,000	340.00/M
4.625							MCP130T-475I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.725							MCP130T-485I/TTCT-ND†	.48	.43	.39	3,000	340.00/M
1.900	Active Low	Open Drain ‡	No	No	1.0 ~ 5.5	TO-92	MCP131-195I/TO-ND◆	.48	.41	.37	—	—
						SC-70	MCP131T-195I/LBCT-ND◆†	.53	.48	.43	3,000	370.00/M
						SOT-23B	MCP131T-195I/TTCT-ND◆†	.53	.48	.43	3,000	370.00/M
2.625	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP809T-270I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
2.925							MCP809T-300I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
3.075							MCP809T-315I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.375							MCP809T-450I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.475							MCP809T-460I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.625							MCP809T-475I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.725							MCP809T-485I/TTCT-ND†	.48	.43	.39	3,000	340.00/M
2.625	Active High	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-23	MCP810T-270I/TTCT-ND†	.48	.43	.39	3,000	340.00/M
2.925							MCP810T-300I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
3.075							MCP810T-315I/TTCT-ND†	.48	.43	.39	3,000	340.00/M
4.375							MCP810T-450I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.475							MCP810T-460I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.625							MCP810T-475I/TTCT-ND†	.48	.43	.39	3,000	340.00/M
4.725							MCP810T-485I/TTCT-ND◆†	.48	.43	.39	3,000	340.00/M
4.5	Active Low	Open Drain	Yes	No	4.5 ~ 5.5	SOT-223	TC32MEDB713CT-ND†	1.87	1.62	1.46	4,000	1810.00/M
						TO-92	TC32MCZB-ND◆	1.75	1.67	1.52	—	—
4.62 and 4.37	Active Low/High	Open Drain	Yes	No	4.5 ~ 5.5	8-DIP	TC1232CPA-ND◆	1.15	1.10	1.00	—	—
						8-SOIC	TC1232EOA-ND◆	1.15	1.10	1.00	—	—
						8-DIP	TC1232EPA-ND◆	1.15	1.10	1.00	—	—
1.75	Active Low	CMOS Push-Pull	No	No	1.2 ~ 5.5	SOT-143-4	TC1270FERCCT-ND◆†	.84	.75	.68	3,000	600.00/M
2.93						SOT-143	TC1270SERCCT-ND◆†	.84	.75	.68	3,000	600.00/M
3.08						SOT-143-4	TC1270TERCTRCT-ND◆†	.75	.60	.53	3,000	600.00/M
2.63	Active Low	CMOS Push-Pull and Open Drain	No	Yes	1.0 ~ 5.5	SOT-23-5	TC1270ARCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
2.93							TC1270ASCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
3.08							TC1270ATCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
4.38							TC1270AMCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
4.63							TC1270ALCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape ‡ with 5k Ω pull-up

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Power Management

CPU/System Supervisors *(Cont.)*

Nominal Reset Voltage (V)	Reset Type	Output	Watchdog Timer	Manual Reset	Vcc Range (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
								1	25	100	Qty.	Pricing
2.63	Active Low	Open Drain	No	Yes	1.0 ~ 5.5	SOT-23-5	TC1270ANRCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
2.93							TC1270ANSCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
3.08							TC1270ANTCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
4.38							TC1270ANMCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
4.63							TC1270ANLCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
4.38	Active High	CMOS Push-Pull	No	No	1.2 ~ 5.5	SOT-143-4	TC1271MERCCT-ND◆†	.84	.75	.68	3,000	600.00/M
2.63	Active High	CMOS Push-Pull	No	Yes	1.0 ~ 5.5	SOT-23-5	TC1271ARCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
2.93							TC1271ASCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
3.08							TC1271ATCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
4.38							TC1271AMCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
4.63							TC1271ALCVCTCT-ND◆† ***NEW!***	.66	.55	.50	3,000	500.00/M
4.62	Active Low	Open Drain	No	No	1.2 ~ 5.5	SOT-23B-3	TC1273-5ENBCT-ND◆†	.64	.58	.52	3,000	510.00/M
4.12	Active High	CMOS Push-Pull	No	No	1.8 ~ 5.5	SOT-23B-3	TC1274-15ENBCT-ND†	.64	.58	.52	3,000	510.00/M
4.62							TC1274-5ENBCT-ND◆†	.64	.58	.52	3,000	510.00/M
2.88	Active Low	CMOS Push-Pull	No	No	1.2 ~ 5.5	SOT-23B	TC1275-10ENBCT-ND◆†	.64	.58	.52	3,000	510.00/M
2.63	Active Low	CMOS Push-Pull	No	No	1.2 ~ 5.5	SOT-23B	TCM809RENB713CT-ND◆†	.46	.39	.33	3,000	270.00/M
2.63						SC-70-3	TCM809RVLB713CT-ND◆†	.36	.33	.30	3,000	270.00/M
2.63						SOT-23B-3	TCM809RVNB713CT-ND◆†	.36	.33	.30	3,000	270.00/M
2.93						SC-70-3	TCM809SVLB713CT-ND†	.36	.33	.30	3,000	270.00/M
2.93						SOT-23B	TCM809SVNB713CT-ND◆†	.36	.33	.30	3,000	270.00/M
3.08						SOT-23B	TCM809TVNB713CT-ND◆†	.36	.33	.30	3,000	270.00/M
4.00						SOT-23B-3	TCM809JVNB713CT-ND◆†	.36	.33	.30	3,000	270.00/M
4.38						SOT-23B	TCM809MENB713CT-ND◆†	.46	.39	.33	3,000	270.00/M
4.38						SC-70-3	TCM809MVLB713CT-ND◆†	.36	.33	.30	3,000	270.00/M
4.38						SOT-23B-3	TCM809MVNB713CT-ND◆†	.36	.33	.30	3,000	270.00/M
4.63						SOT-23B	TCM809LENB713CT-ND◆†	.46	.39	.33	3,000	270.00/M
4.63						SC-70-3	TCM809LVLB713CT-ND◆†	.36	.33	.30	3,000	270.00/M
4.63						SOT-23B-3	TCM809LVNB713CT-ND◆†	.36	.33	.30	3,000	270.00/M
2.63	Active High	CMOS Push-Pull	No	No	1.2 ~ 5.5	SOT-23B	TCM810RENB713CT-ND◆†	.46	.39	.33	3,000	270.00/M
2.63							TCM810RVNB713CT-ND†	.36	.33	.30	3,000	270.00/M
4.63							TCM810LENB713CT-ND◆†	.46	.39	.33	3,000	270.00/M
1.75	Active Low	CMOS Push-Pull	No	No	1.0 ~ 5.5	SOT-143-4	TCM811FERCCT-ND†	.84	.75	.68	3,000	600.00/M

Voltage Detectors

Nominal Reset Voltage (V)	Reset Type	Output	Watchdog Timer	Manual Reset	Vcc Range (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
								1	25	100	Qty.	Pricing
2.70	Active Low	CMOS Push-Pull	No	No	0.7 ~ 10	SOT-23A	TC54VC2702ECB71CT-ND†	.63	.54	.45	3,000	370.00/M
2.90						SOT-23A	TC54VC2902ECB71CT-ND†	.54	.51	.45	3,000	360.00/M
4.30						SOT-23A	TC54VC4302ECB71CT-ND†	.60	.50	.45	3,000	400.00/M
4.30						SOT-89	TC54VC4302EMB71CT-ND†	.60	.50	.45	1,000	400.00
4.50						SOT-23A	TC54VC4502ECB71CT-ND†	.56	.50	.45	3,000	400.00/M
2.70	Active Low	Open Drain	No	No	0.7 ~ 10	SOT-23A	TC54VN2702ECB71CT-ND†	.63	.54	.45	3,000	370.00/M
2.90						SOT-23A	TC54VN2902ECB71CT-ND†	.54	.45	.41	—	—
3.00						SOT-23A	TC54VN3002ECB71CT-ND†	.54	.51	.45	3,000	370.00/M
4.30						SOT-23A	TC54VN4302ECB71CT-ND†	.60	.50	.45	3,000	400.00/M
4.50						SOT-23A	TC54VN4502ECB71CT-ND†	.45	.39	.35	3,000	400.00/M
4.50						SOT-89	TC54VN4502EMB71CT-ND†	.45	.39	.35	1,000	400.00

DC/DC Converters

Description	Input Voltage (V)	Output Voltage (V)	Max. Input Current (µA)	Typical Active Output Current (mA)	Operating Temperature	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
								1	25	100	Qty.	Pricing
Regulated	2.0 ~ 5.5	3.3 or 5.0	120	120mA for Vin>, 3.0V	-45°C ~ 85°C	8-MSOP	MCP1252-33X50I/MS-ND◆	1.85	1.13	1.03	—	—
							MCP1252-ADJI/MS-ND◆	1.85	1.13	1.03	—	—
Regulated	2.0 ~ 5.5	3.3 or 5.0	120	120mA for Vin>, 3.0V	-45°C ~ 85°C	8-MSOP	MCP1253-33X50I/MS-ND◆	1.85	1.13	1.03	—	—
							MCP1253-ADJI/MS-ND◆	1.85	1.13	1.03	—	—
Inverting or Doubling	2.4 ~ 5.5	-Vin or 2Vin	100	100	-45°C ~ 85°C	8-SOIC	TC1121COA-ND◆	1.68	1.02	.93	—	—
						8-DIP	TC1121CPA-ND◆	1.73	1.05	.95	—	—
Inverting or Doubling	1.5 ~ 5.5	-Vin or 2Vin	115	25	-45°C ~ 85°C	SOT-23A-6	TC1219ECHCT-ND◆†	1.15	1.03	.93	3,000	560.00/M
Inverting or Doubling	1.5 ~ 5.5	-Vin or 2Vin	325	25	-45°C ~ 85°C	SOT-23A-6	TC1220ECHCT-ND†	1.15	1.03	.93	3,000	560.00/M
Inverting or Doubling	1.5 ~ 10	-Vin or 2Vin	180	20	-45°C ~ 85°C	8-SOIC	TC7660COA-ND◆	.70	.67	.61	—	—
			180			8-DIP	TC7660CPA-ND◆	.70	.67	.61	—	—
			180			8-SOIC	TC7660EOA-ND◆	.70	.67	.61	—	—
			1000			8-DIP	TC7660HCPA-ND◆	.88	.84	.76	—	—
			160			8-SOIC	TC7660SCOA-ND◆	.80	.75	.68	—	—
			160			8-DIP	TC7660SCPA-ND◆	.80	.75	.68	—	—
			160			8-SOIC	TC7660SEOA713CT-ND◆†	1.04	.95	.87	3,300	680.00/M
			160			8-DIP	TC7660SEPA-ND◆	.80	.75	.68	—	—
Inverting or Doubling	3.0 ~ 18	-Vin or 2Vin	200	40	-45°C ~ 85°C	8-DIP	TC7662ACPA-ND◆	2.30	2.20	2.00	—	—
						8-DIP	TC7662AEPA-ND◆	3.15	3.01	2.74	—	—
						8-CDIP	TC7662AIJA-ND	8.10	7.75	7.05	—	—
	1.5 ~ 15	-Vin or 2Vin	180	20	-45°C ~ 85°C	8-SOIC	TC7662BCOA-ND◆	1.65	1.58	1.44	—	—
						8-DIP	TC7662BCPA-ND◆	1.65	1.58	1.44	—	—
						8-SOIC	TC7662BEOA-ND◆	1.93	1.85	1.68	—	—
						8-SOIC	TC7662BEOA713CT-ND†	1.73	1.51	1.35	3,300	1680.00/M
						8-DIP	TC7662BEPA-ND◆	1.93	1.85	1.68	—	—
Inverting or Doubling	3.0 ~ 18	-Vin or 2Vin	200	80	-45°C ~ 85°C	(wide) 16-SOIC	TC962COE-ND◆	2.53	2.42	2.20	—	—
						8-DIP	TC962CPA-ND◆	2.53	2.42	2.20	—	—
Inverting or Doubling	1.5 ~ 5.5	-Vin or 2Vin	260	25	-45°C ~ 85°C	SOT-23A-5	TCM829ECT713CT-ND◆†	.88	.75	.63	3,000	510.00/M
Evaluation Board for MCP1601							MCP1601EV-ND	30.00	—	—	—	—
Demo Board for MCP1252							MCP1252DM-BKLT-ND	30.00	—	—	—	—
Evaluation Board for MCP1256/7/8/9							MCP1256/7/8/9EV-ND	35.00	—	—	—	—
Evaluation Board for MCP1603							MCP1603EV-ND	25.00	—	—	—	—

Linear Voltage Regulators

Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Active Current (mA)	Typical Dropout Volt. @ Max. Iout (mV)	Typical Output Volt. Accuracy (%)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
								1	25	100	Qty.	Pricing
6	1.8	250	1	300	0.4	SOT-23	MCP1700T1802ETTCT-ND◆†	.63	.58	.55	3,000	300.00/M
						SOT-89	MCP1700T1802EMBCT-ND†	.63	.58	.55	1,000	300.00
						TO-92	MCP1700-1802E/TO-ND◆	.53	.33	.30	—	—
	3.3	250	1	300	0.4	SOT-23	MCP1700T3302ETTCT-ND◆†	.63	.58	.55	3,000	300.00/M
						SOT-89	MCP1700T3302EMBCT-ND◆†	.63	.58	.55	1,000	300.00
						TO-92	MCP1700-3302E/TO-ND◆	.53	.33	.30	—	—
	5.0	250	1	300	0.4	SOT-23	MCP1700T5002ETTCT-ND†	.63	.58	.55	3,000	300.00/M

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Active Current (mA)	Typical Dropout Volt. @ Max. Iout (mV)	Typical Output Volt. Accuracy (%)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
								1	25	100	Qty.	Pricing
6	5.0	250	1	300	0.4	SOT-89	MCP1700T5002EMBCT-ND◆†	.63	.58	.55	1,000	300.00
						TO-92	MCP1700-5002E/TO-ND◆	.53	.33	.30	—	—
16	1.2	250	2µA	625	0.4	SOT-223-3	MCP1703-1202E/DB-ND◆ ***NEW!***	.93	.57	.52	—	—
	1.8						MCP1703-1802E/DB-ND◆ ***NEW!***	.93	.57	.52	—	—
	2.5						MCP1703-2502E/DB-ND◆ ***NEW!***	.93	.57	.52	—	—
	3.0						MCP1703-3002E/DB-ND◆ ***NEW!***	.93	.57	.52	—	—
	3.3						MCP1703-3302E/DB-ND◆ ***NEW!***	.93	.57	.52	—	—
	5.0						MCP1703-5002E/DB-ND◆ ***NEW!***	.93	.57	.52	—	—
16	1.8	250	2µA	625	0.4	SOT-23A	MCP1703T-1802E/CBCT-ND◆†	.92	.83	.75	3,000	460.00/M
	3.0						MCP1703T-3002E/CBCT-ND◆†	.92	.83	.75	3,000	460.00/M
	3.3						MCP1703T-3302E/CBCT-ND◆†	.92	.83	.75	3,000	460.00/M
	5.0						MCP1703T-5002E/CBCT-ND◆†	.92	.83	.75	3,000	460.00/M
6	1.8	50	50	85	0.5	SOT-23A-5	TC10141.8VCT713CT-ND◆†	.56	.50	.45	3,000	430.00/M
	2.7						TC10142.7VCT713CT-ND◆†	.56	.50	.45	3,000	430.00/M
	5.0						TC10145.0VCT713CT-ND◆†	.56	.50	.45	3,000	430.00/M
6	2.5	100	50	180	0.5	SOT-23A-5	TC10152.5VCT713CT-ND◆†	.74	.63	.58	3,000	450.00/M
	2.8						TC10152.8VCT713CT-ND◆†	.53	.42	.37	3,000	450.00/M
	3.0						TC10153.0VCT713CT-ND◆†	.53	.48	.42	3,000	450.00/M
	4.0						TC10154.0VCT713CT-ND◆†	.53	.49	.48	3,000	450.00/M
6	1.8	80	50	150	0.5	SC-70-5	TC1016-1.8VLTCT-ND◆†	.64	.58	.52	3,000	330.00/M
	2.7						TC1016-2.7VLTCT-ND◆†	.64	.58	.52	3,000	330.00/M
	3.0						TC1016-3.0VLTCT-ND◆†	.64	.58	.52	3,000	330.00/M
6	2.5	100	50	180	0.5	SOT-23A-5	TC10552.5VCT713CT-ND†	.53	.42	.37	3,000	450.00/M
	3.3						TC10553.3VCT713CT-ND◆†	.53	.49	.48	3,000	450.00/M
	1.8						TC10551.8VCT713CT-ND◆†	.59	.53	.48	3,000	450.00/M
	5.0						TC10555.0VCT713CT-ND†	.74	.63	.58	3,000	450.00/M
6	1.23 ~ 5.5	100	50	180	—	SOT-23A-5	TC1071VCT713CT-ND◆†	.72	.68	.60	3,000	530.00/M
6	1.8	100	50	180	0.5	SOT-23A-6	TC10731.8VCH713CT-ND†	.87	.78	.70	3,000	670.00/M
	2.5						TC10732.5VCH713CT-ND◆†	.70	.61	.55	—	—
	3.0						TC10733.0VCH713CT-ND†	.70	.61	.55	3,000	670.00/M
	3.3						TC10733.3VCH713CT-ND†	.70	.61	.55	—	—
	5.0						TC10735.0VCH713CT-ND†	.70	.61	.55	3,000	670.00/M
6	2.5	300	50	240	0.5	8-SOIC	TC1107-2.5VOA-ND◆	.78	.73	.67	—	—
	2.5					8-MSOP	TC1107-2.5VUA-ND	.78	.73	.67	—	—
	2.5					8-MSOP	TC1107-2.5VUACT-ND†	.87	.78	.70	2,500	670.00/M
	2.7					8-MSOP	TC1107-2.7VUA-ND	.78	.73	.67	—	—
	2.7					8-SOIC	TC1107-2.7VOA-ND◆	.78	.73	.67	—	—
	3.0					8-MSOP	TC1107-3.0VUA-ND	.78	.73	.67	—	—
	3.0					8-SOIC	TC1107-3.0VOA-ND◆	.78	.73	.67	—	—
	3.3					8-SOIC	TC1107-3.3VOA-ND◆	.78	.73	.67	—	—
	3.3					8-MSOP	TC1107-3.3VUA-ND◆	.78	.73	.67	—	—
	5.0					8-SOIC	TC1107-5.0VOA-ND◆	.78	.73	.67	—	—
	5.0					8-MSOP	TC1107-5.0VUA-ND	.78	.73	.67	—	—
6	2.5	300	50	240	0.5	SOT-223-3	TC1108-2.5VDBCT-ND†	.87	.78	.70	4,000	670.00/M
6	1.8	150	50	270	0.5	SOT-23A-5	TC11851.8VCT713CT-ND◆†	.62	.55	.50	3,000	480.00/M
	2.5						TC11852.5VCT713CT-ND†	.55	.44	.39	3,000	480.00/M
	2.7						TC11852.7VCT713CT-ND†	.77	.66	.61	3,000	480.00/M
	2.8						TC11852.8VCT713CT-ND†	.77	.66	.61	3,000	480.00/M
	2.85						TC11852.85VCT71CT-ND◆†	.50	.43	.39	3,000	480.00/M
	3.0						TC11853.0VCT713CT-ND†	.55	.44	.39	3,000	480.00/M
	3.3						TC11853.3VCT713CT-ND◆†	.55	.44	.39	3,000	480.00/M
	4.0						TC11854.0VCT713CT-ND†	.55	.44	.39	3,000	480.00/M
6	5.0	150	50	270	0.5	SOT-23A-5	TC11855.0VCT713CT-ND◆†	.55	.44	.39	3,000	480.00/M
6	2.5	500	80	350	0.5	SOT-223-3	TC1262-2.5VDBCT-ND◆†	1.37	1.23	1.11	4,000	1060.00/M
	2.5					TO-220-3	TC1262-2.5VAB-ND	2.00	1.76	1.60	—	—
	3.3					SOT-223-3	TC1262-3.3VDBCT-ND◆†	1.37	1.23	1.11	4,000	1060.00/M
	3.3					TO-220-3	TC1262-3.3VAB-ND◆	2.00	1.76	1.60	—	—
	5.0					TO-220-3	TC1262-5.0VAB-ND	2.00	1.76	1.60	—	—
6	2.5	500	80	350	0.5	TO-220-5	TC1263-2.5VAT-ND	2.15	1.90	1.73	—	—
						8-SOIC	TC1263-2.5VOA-ND	1.25	1.20	1.09	—	—
6	1.8	800	80	450	0.5	DDPAK-3	TC1264-1.8VEBCT-ND†	2.27	2.03	1.83	750	1297.50
						SOT-223-3	TC1264-1.8VDBCT-ND†	1.48	1.33	1.20	4,000	1140.00/M
6	1.8	800	80	450	0.5	TO-220-5	TC1265-1.8VAT-ND	2.38	2.05	1.86	—	—
	1.8					8-SOIC	TC1265-1.8VOA-ND◆	1.35	1.29	1.17	—	—
	2.5					TO-220-5	TC1265-2.5VAT-ND◆	2.38	2.05	1.86	—	—
	2.5					8-SOIC	TC1265-2.5VOA-ND◆	1.35	1.29	1.17	—	—
	3.0					TO-220-5	TC1265-3.0VAT-ND◆	2.38	2.05	1.86	—	—
	3.0					8-SOIC	TC1265-3.0VOA-ND◆	1.35	1.29	1.17	—	—
	3.3					TO-220-5	TC1265-3.3VAT-ND◆	2.38	2.05	1.86	—	—
	3.3					8-SOIC	TC1265-3.3VOA-ND◆	1.35	1.29	1.17	—	—
6	3.3	200	230	200	1.0	8-MSOP	TC1266VUA-ND	1.15	1.11	1.01	—	—
						8-SOIC	TC1266VOA-ND	1.08	1.02	.93	—	—
6	3.3	300	50	240	0.5	8-MSOP	TC1269-3.3VUA-ND◆	1.25	1.20	1.09	—	—
	5.0					8-MSOP	TC1269-5.0VUA-ND	1.25	1.20	1.09	—	—
6	—	300	103	104	0.5	8-DFN	TC1301A-AAAVMF-ND◆	1.88	1.15	1.05	—	—
						8-MSOP	TC1301A-AAAVUA-ND◆	1.75	1.07	.97	—	—
						8-MSOP	TC1301A-ADAVUA-ND◆	1.75	1.07	.97	—	—
						8-MSOP	TC1301A-DDAVUA-ND◆	1.75	1.07	.97	—	—
						8-DFN	TC1301A-PGAVMF-ND◆	1.88	1.15	1.05	—	—
6	—	300	114	104	0.5	8-DFN	TC1301B-AIAVMF-ND◆	1.88	1.15	1.05	—	—
—	—	300	103	104	0.5	8-DFN	TC1302A-IAVMF-ND◆	1.88	1.15	1.05	—	—
6	0.8	500	120µA	210	0.5	8-SOIC	MCP1725-0802E/SN-ND◆ ***NEW!***	1.75	1.08	.98	—	—
	1.2						MCP1725-1202E/SN-ND◆ ***NEW!***	1.75	1.08	.98	—	—
	1.8						MCP1725-1802E/SN-ND◆ ***NEW!***	1.75	1.08	.98	—	—
	2.5						MCP1725-2502E/SN-ND◆ ***NEW!***	1.75	1.08	.98	—	—
	3.0						MCP1725-3002E/SN-ND◆ ***NEW!***	1.75	1.08	.98	—	—
	3.3						MCP1725-3302E/SN-ND◆ ***NEW!***	1.75	1.08	.98	—	—
	5.0						MCP1725-5002E/SN-ND◆ ***NEW!***	1.75	1.08	.98	—	—
	0.8 ~ 5.0						MCP1725-ADJE/SN-ND◆ ***NEW!***	1.93	1.18	1.07	—	—
6	0.8	1,000	140	150	1.5	8-SOIC	MCP1726-0802E/SN-ND◆	1.98	1.20	1.09	—	—
	1.2					8-DFN	MCP1726-1202E/MF-ND◆	2.13	1.30	1.19	—	—
	1.2					8-SOIC	MCP1726-1202E/SN-ND◆	1.98	1.20	1.09	—	—
	1.8					8-DFN	MCP1726-1802E/MF-ND◆	2.13	1.30	1.19	—	—
	1.8					8-SOIC	MCP1726-1802E/SN-ND◆	1.98	1.20	1.09	—	—
	2.5					8-DFN	MCP1726-2502E/MF-ND◆	2.13	1.30	1.19	—	—
	2.5					8-SOIC	MCP1726-2502E/SN-ND◆	1.98	1.20	1.09	—	—
	3.3					8-DFN	MCP1726-3302E/MF-ND◆	2.13	1.30	1.19	—	—
	3.3					8-SOIC	MCP1726-3302E/SN-ND◆	1.98	1.20	1.09	—	—
	5.0					8-DFN	MCP1726-5002E/MF-ND◆	2.13	1.30	1.19	—	—
6	1.8	150	55	140	0.4	SOT-23A-5	TC2185-1.8VCCT-ND†	.70	.63	.57	3,000	340.00/M
	2.8						TC2185-2.8VCCT-ND†	.70	.63	.57	3,000	340.00/M

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Power Management
Linear Voltage Regulators *(Cont.)*

Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Active Current (mA)	Typical Dropout Volt. @ Max. Iout (mV)	Typical Output Volt. Accuracy (%)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
								1	25	100	Qty.	Pricing
6	3.0	150	55	140	0.4	SOT-23A-5	TC2185-3.0VCCT-ND◆†	.70	.63	.57	3,000	340.00/M
	3.3						TC2185-3.3VCCT-ND◆†	.70	.63	.57	3,000	340.00/M
6	0.8	300	120µA	200	0.4	SOT-223-5	MCP1824T-0802E/DCCT-ND◆† ***NEW!***	1.10	.60	.54	4,000	540.01/M
	2.5						MCP1824T-2502E/DCCT-ND◆† ***NEW!***	1.10	.60	.54	4,000	540.01/M
	3.0						MCP1824T-3002E/DCCT-ND◆† ***NEW!***	1.10	.60	.54	4,000	540.01/M
	3.3						MCP1824T-3302E/DCCT-ND◆† ***NEW!***	1.10	.60	.54	4,000	540.01/M
	5.0						MCP1824T-5002E/DCCT-ND◆† ***NEW!***	1.10	.60	.54	4,000	540.01/M
	0.8 ~ 5.0						MCP1824T-ADJE/DCCT-ND◆† ***NEW!***	1.10	.60	.54	4,000	540.01/M
6	1.8	300	120µA	200	0.4	SOT-23-5	MCP1824T-1802E/OTCT-ND◆† ***NEW!***	.88	.53	.48	3,000	480.00/M
	2.5						MCP1824T-2502E/OTCT-ND◆† ***NEW!***	.88	.53	.48	3,000	480.00/M
	3.0						MCP1824T-3002E/OTCT-ND◆† ***NEW!***	.88	.53	.48	3,000	480.00/M
	3.3						MCP1824T-3302E/OTCT-ND◆† ***NEW!***	.88	.53	.48	3,000	480.00/M
	5.0						MCP1824T-5002E/OTCT-ND◆† ***NEW!***	.88	.53	.48	3,000	480.00/M
	0.8 ~ 5.0						MCP1824T-ADJE/OTCT-ND◆† ***NEW!***	.88	.53	.48	3,000	480.00/M
6	0.8	500	120µA	210	0.5	TO-220-5	MCP1825-0802E/AT-ND◆ ***NEW!***	1.93	1.18	1.07	—	—
	0.8					5-DDPAK	MCP1825-0802E/ET-ND◆ ***NEW!***	1.93	1.18	1.07	—	—
	1.2					TO-220-5	MCP1825-1202E/AT-ND◆ ***NEW!***	1.93	1.18	1.07	—	—
	1.2					5-DDPAK	MCP1825-1202E/ET-ND◆ ***NEW!***	1.93	1.18	1.07	—	—
	1.8					TO-220-5	MCP1825-1802E/AT-ND◆ ***NEW!***	1.93	1.18	1.07	—	—
	1.8					5-DDPAK	MCP1825-1802E/ET-ND◆ ***NEW!***	1.93	1.18	1.07	—	—
	2.5					TO-220-5	MCP1825-2502E/AT-ND◆ ***NEW!***	1.93	1.18	1.07	—	—
	2.5					5-DDPAK	MCP1825-2502E/ET-ND◆ ***NEW!***	1.93	1.18	1.07	—	—
	3.0					TO-220-5	MCP1825-3002E/AT-ND◆	1.93	1.18	1.07	—	—
	3.0					5-DDPAK	MCP1825-3002E/ET-ND◆ ***NEW!***	1.93	1.18	1.07	—	—
	3.3					TO-220-5	MCP1825-3302E/AT-ND◆	1.93	1.18	1.07	—	—
	3.3					5-DDPAK	MCP1825-3302E/ET-ND◆ ***NEW!***	1.93	1.18	1.07	—	—
	5.0					TO-220-5	MCP1825-5002E/AT-ND◆	1.93	1.18	1.07	—	—
	5.0					SOT-223-5	MCP1825-5002E/DC-ND◆ ***NEW!***	1.65	1.01	.92	—	—
	0.8 ~ 5.0					TO-220-5	MCP1825-ADJE/AT-ND◆	1.93	1.18	1.07	—	—
	0.8 ~ 5.0					5-DDPAK	MCP1825-ADJE/ET-ND◆ ***NEW!***	1.93	1.18	1.07	—	—
6	0.8	500	120µA	300	0.5	TO-220-3	MCP1825S-0802E/AB-ND◆ ***NEW!***	1.78	1.08	.98	—	—
	0.8					SOT-223-3	MCP1825S-0802E/DB-ND◆ ***NEW!***	1.60	.97	.88	—	—
	0.8					3-DDPAK	MCP1825S-0802E/EB-ND◆ ***NEW!***	1.78	1.08	.98	—	—
	1.2					TO-220-3	MCP1825S-1202E/AB-ND◆ ***NEW!***	1.78	1.08	.98	—	—
	1.2					SOT-223-3	MCP1825S-1202E/DB-ND◆ ***NEW!***	1.60	.97	.88	—	—
	1.2					3-DDPAK	MCP1825S-1202E/EB-ND◆ ***NEW!***	1.78	1.08	.98	—	—
	1.8					TO-220-3	MCP1825S-1802E/AB-ND◆ ***NEW!***	1.78	1.08	.98	—	—
	1.8					SOT-223-3	MCP1825S-1802E/DB-ND◆ ***NEW!***	1.60	.97	.88	—	—
	1.8					3-DDPAK	MCP1825S-1802E/EB-ND◆ ***NEW!***	1.78	1.08	.98	—	—
	2.5					TO-220-3	MCP1825S-2502E/AB-ND◆ ***NEW!***	1.78	1.08	.98	—	—
	2.5					SOT-223-3	MCP1825S-2502E/DB-ND◆ ***NEW!***	1.60	.97	.88	—	—
	2.5					3-DDPAK	MCP1825S-2502E/EB-ND◆ ***NEW!***	1.78	1.08	.98	—	—
	2.5					3-DDPAK	MCP1825ST-2502E/EBCT-ND◆† ***NEW!***	1.78	1.08	.98	750	735.00
	3.0					TO-220-3	MCP1825S-3002E/AB-ND◆	1.78	1.08	.98	—	—
	3.0					SOT-223-3	MCP1825S-3002E/DB-ND◆	1.60	.97	.88	—	—
	3.0					3-DDPAK	MCP1825S-3002E/EB-ND◆ ***NEW!***	1.78	1.08	.98	—	—
	3.3					TO-220-3	MCP1825S-3302E/AB-ND◆	1.78	1.08	.98	—	—
	3.3					SOT-223-3	MCP1825S-3302E/DB-ND◆	1.60	.97	.88	—	—
	3.3					3-DDPAK	MCP1825S-3302E/EB-ND◆ ***NEW!***	1.78	1.08	.98	—	—
	5.0					TO-220-3	MCP1825S-5002E/AB-ND◆	1.78	1.08	.98	—	—
	5.0					SOT-223-3	MCP1825S-5002E/DB-ND◆	1.60	.97	.88	—	—
	5.0					3-DDPAK	MCP1825S-5002E/EB-ND◆ ***NEW!***	1.78	1.08	.98	—	—
6	3.0	500	120µA	210	0.5	SOT-223-5	MCP1825T-3002E/DCCT-ND◆† ***NEW!***	1.65	1.01	.92	4,000	920.00/M
	3.3						MCP1825T-3302E/DCCT-ND◆† ***NEW!***	1.65	1.01	.92	4,000	920.00/M
	5.0						MCP1825T-5002E/DCCT-ND◆† ***NEW!***	1.65	1.01	.92	4,000	920.00/M
6	0.8	1,000	120µA	300	0.5	TO-220-5	MCP1826-0802E/AT-ND◆ ***NEW!***	2.13	1.30	1.19	—	—
	0.8					5-DDPAK	MCP1826-0802E/ET-ND◆ ***NEW!***	2.13	1.30	1.19	—	—
	1.2					TO-220-5	MCP1826-1202E/AT-ND◆ ***NEW!***	2.13	1.30	1.19	—	—
	1.2					5-DDPAK	MCP1826-1202E/ET-ND◆ ***NEW!***	2.13	1.30	1.19	—	—
	1.8					TO-220-5	MCP1826-1802E/AT-ND◆ ***NEW!***	2.13	1.30	1.19	—	—
	1.8					5-DDPAK	MCP1826-1802E/ET-ND◆ ***NEW!***	2.13	1.30	1.19	—	—
	2.5					TO-220-5	MCP1826-2502E/AT-ND◆ ***NEW!***	2.13	1.30	1.19	—	—
	2.5					5-DDPAK	MCP1826-2502E/ET-ND◆ ***NEW!***	2.13	1.30	1.19	—	—
	3.0					TO-220-5	MCP1826-3002E/AT-ND◆	2.13	1.30	1.19	—	—
	3.0					5-DDPAK	MCP1826-3002E/ET-ND◆ ***NEW!***	2.13	1.30	1.19	—	—
	3.3					TO-220-5	MCP1826-3302E/AT-ND◆	2.13	1.30	1.19	—	—
	3.3					SOT-223-5	MCP1826-3302E/DC-ND◆ ***NEW!***	1.83	1.11	1.01	—	—
	3.3					5-DDPAK	MCP1826-3302E/ET-ND◆ ***NEW!***	2.13	1.30	1.19	—	—
	5.0					TO-220-5	MCP1826-5002E/AT-ND◆	2.13	1.30	1.19	—	—
	5.0					SOT-223-5	MCP1826-5002E/DC-ND◆ ***NEW!***	1.83	1.11	1.01	—	—
	5.0					5-DDPAK	MCP1826-5002E/ET-ND◆ ***NEW!***	2.13	1.30	1.19	—	—
	0.8 ~ 5.0					TO-220-5	MCP1826-ADJE/AT-ND◆	2.13	1.30	1.19	—	—
	0.8 ~ 5.0					5-DDPAK	MCP1826-ADJE/ET-ND◆ ***NEW!***	2.13	1.30	1.19	—	—
6	0.8	1,000	120µA	300	0.5	TO-220-3	MCP1826S-0802E/AB-ND◆ ***NEW!***	2.08	1.27	1.16	—	—
	0.8					SOT-223-3	MCP1826S-0802E/DB-ND◆ ***NEW!***	1.73	1.05	.95	—	—
	0.8					3-DDPAK	MCP1826S-0802E/EB-ND◆ ***NEW!***	2.08	1.27	1.16	—	—
	1.2					TO-220-3	MCP1826S-1202E/AB-ND◆ ***NEW!***	2.08	1.27	1.16	—	—
	1.2					SOT-223-3	MCP1826S-1202E/DB-ND◆ ***NEW!***	1.73	1.05	.95	—	—
	1.2					3-DDPAK	MCP1826S-1202E/EB-ND◆ ***NEW!***	2.08	1.27	1.16	—	—
	1.8					TO-220-3	MCP1826S-1802E/AB-ND◆ ***NEW!***	2.08	1.27	1.16	—	—
	1.8					SOT-223-3	MCP1826S-1802E/DB-ND◆ ***NEW!***	1.73	1.05	.95	—	—
	1.8					3-DDPAK	MCP1826S-1802E/EB-ND◆ ***NEW!***	2.08	1.27	1.16	—	—
	2.5					TO-220-3	MCP1826S-2502E/AB-ND◆ ***NEW!***	2.08	1.27	1.16	—	—
	2.5					SOT-223-3	MCP1826S-2502E/DB-ND◆ ***NEW!***	1.73	1.05	.95	—	—
	2.5					3-DDPAK	MCP1826S-2502E/EB-ND◆ ***NEW!***	2.08	1.27	1.16	—	—
	3.0					TO-220-3	MCP1826S-3002E/AB-ND◆	2.08	1.27	1.16	—	—
	3.0					SOT-223-3	MCP1826S-3002E/DB-ND◆	1.73	1.05	.95	—	—
	3.0					3-DDPAK	MCP1826S-3002E/EB-ND◆ ***NEW!***	2.08	1.27	1.16	—	—
	3.3					TO-220-3	MCP1826S-3302E/AB-ND◆	2.08	1.27	1.16	—	—
	3.3					SOT-223-3	MCP1826S-3302E/DB-ND◆	1.73	1.05	.95	—	—
	3.3					3-DDPAK	MCP1826S-3302E/EB-ND◆ ***NEW!***	2.08	1.27	1.16	—	—
	5.0					TO-220-3	MCP1826S-5002E/AB-ND◆	2.08	1.27	1.16	—	—
	5.0					SOT-223-3	MCP1826S-5002E/DB-ND◆	1.73	1.05	.95	—	—
	5.0					3-DDPAK	MCP1826S-5002E/EB-ND◆ ***NEW!***	2.08	1.27	1.16	—	—
6	1.8	1,000	120µA	300	0.5	SOT-223-5	MCP1826T-1802E/DCCT-ND◆† ***NEW!***	1.83	1.11	1.01	4,000	1010.00/M
	2.5						MCP1826T-2502E/DCCT-ND◆† ***NEW!***	1.83	1.11	1.01	4,000	1010.00/M
	3.3						MCP1826T-3302E/DCCT-ND◆†	2.04	1.83	1.65	4,000	1010.00/M
	5.0						MCP1826T-5002E/DCCT-ND◆† ***NEW!***	1.83	1.11	1.01	4,000	1010.00/M
	0.8 ~ 5.0						MCP1826T-ADJE/DCCT-ND◆†	2.04	1.83	1.65	4,000	1010.00/M
Evaluation Board for MCP1726							MCP1726EV-ND	30.00	—	—	—	—
Evaluation Board for TC1016/TC1017							TC1016/17EV-ND	45.00	—	—	—	—
Demo Board for TC1303C							TC1303DM-DDBK2-ND	30.00	—	—	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

MICROCHIP Power Management *(Cont.)*

PWM Controllers

Input Voltage Range	Quiescent Current	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Qty.	Pricing
2.7V ~ 5.5V	45µA	8-DFN	MCP1602-120I/MF-ND◆ ***NEW!***	1.93	1.18	1.08	—	—
		8-MSOP	MCP1602-120I/MS-ND◆ ***NEW!***	1.78	1.08	.98	—	—
		8-DFN	MCP1602-150I/MF-ND◆ ***NEW!***	1.93	1.18	1.08	—	—
		8-MSOP	MCP1602-150I/MS-ND◆ ***NEW!***	1.78	1.08	.98	—	—
		8-DFN	MCP1602-180I/MF-ND◆ ***NEW!***	1.93	1.18	1.08	—	—
		8-MSOP	MCP1602-180I/MS-ND◆ ***NEW!***	1.78	1.08	.98	—	—
		8-DFN	MCP1602-250I/MF-ND◆ ***NEW!***	1.93	1.18	1.08	—	—
		8-MSOP	MCP1602-250I/MS-ND◆ ***NEW!***	1.78	1.08	.98	—	—
		8-DFN	MCP1602-330I/MF-ND◆ ***NEW!***	1.93	1.18	1.08	—	—
		8-MSOP	MCP1602-330I/MS-ND◆ ***NEW!***	1.78	1.08	.98	—	—
		8-DFN	MCP1602-ADJI/MF-ND◆ ***NEW!***	1.93	1.18	1.08	—	—
		8-MSOP	MCP1602-ADJI/MS-ND◆ ***NEW!***	1.78	1.08	.98	—	—
	45µA	SOT-23-5	MCP1603T-180I/OSCT-ND◆†	1.88	1.68	1.51	3,000	930.00/M
			MCP1603T-330I/OSCT-ND◆†	1.88	1.68	1.51	3,000	930.00/M
			MCP1603T-ADJI/OSCT-ND◆†	1.88	1.68	1.51	3,000	930.00/M
	2.8mA	8-MSOP	MCP1630V-E/MS-ND◆	1.48	.90	.82	—	—
			MCP1630VT-E/MSCT-ND◆†	1.65	1.48	1.33	2,500	820.00/M
3.0 ~ 5.5V	3.7mA	20-QFN	MCP1631-E/ML-ND◆ ***NEW!***	2.00	1.23	1.12	—	—
		20-SSOP	MCP1631-E/SS-ND◆ ***NEW!***	2.00	1.23	1.12	—	—
		20-TSSOP	MCP1631-E/ST-ND◆ ***NEW!***	2.10	1.28	1.16	—	—
		20-QFN	MCP1631V-E/ML-ND◆ ***NEW!***	2.00	1.23	1.12	—	—
		20-SSOP	MCP1631V-E/SS-ND◆ ***NEW!***	2.00	1.23	1.12	—	—
		20-TSSOP	MCP1631V-E/ST-ND◆ ***NEW!***	2.10	1.28	1.16	—	—
3.5 ~ 16V	3.7mA	20-SSOP	MCP1631HV-330E/SS-ND◆ ***NEW!***	2.23	1.36	1.24	—	—
		20-TSSOP	MCP1631HV-330E/ST-ND◆ ***NEW!***	2.30	1.41	1.28	—	—
		20-SSOP	MCP1631HV-500E/SS-ND◆ ***NEW!***	2.23	1.36	1.24	—	—
		20-TSSOP	MCP1631HV-500E/ST-ND◆ ***NEW!***	2.30	1.41	1.28	—	—
		20-SSOP	MCP1631VHV-330E/SS-ND◆ ***NEW!***	2.23	1.36	1.24	—	—
		20-TSSOP	MCP1631VHV-330E/ST-ND◆ ***NEW!***	2.30	1.41	1.28	—	—
		20-TSSOP	MCP1631VHVT-330E/STCT-ND◆† ***NEW!***	2.30	1.41	1.28	2,500	1280.00/M
		20-SSOP	MCP1631VHV-500E/SS-ND◆ ***NEW!***	2.23	1.36	1.24	—	—
		20-TSSOP	MCP1631VHV-500E/ST-ND◆ ***NEW!***	2.30	1.41	1.28	—	—
Demo Board for MCP1630			MCP1630DM-NMC1-ND	45.00	—	—	—	—
Demo Board for MCP1630			MCP1630RD-DDBK1-ND	65.00	—	—	—	—
Demo Board for MCP1630			MCP1630DM-DDBK1-ND	25.00	—	—	—	—
Demo Board for MCP1630			MCP1630RD-LIC2-ND	30.00	—	—	—	—
Evaluation Board for TC115			TC115EV-ND	15.00	—	—	—	—
Demo Board for MCP1630			MCP1630DM-DDBS1-ND	35.00	—	—	—	—
Demo Board for MCP1630			MCP1630DM-DDBS2-ND	45.00	—	—	—	—
Demo Board for MCP1630			MCP1630DM-DDBK4-ND	50.00	—	—	—	—
Demo Board for MCP1630			MCP1630RD-DDBK3-ND	70.00	—	—	—	—
Demo Board for MCP1630			MCP1630RD-NMC1-ND	35.00	—	—	—	—
Demo Board for MCP1630, Boost Mode LED Driver			MCP1630DM-LED2-ND	30.00	—	—	—	—
Demo Board for TC1303B Buck Regulator LDO			TC1303BDM-DDBK1-ND	25.00	—	—	—	—

Switching Regulators

Description	Input Voltage Range (V)	Output Voltage (V)	Operating Temperature Range	Output	Control Scheme	Switching Frequency (kHz)	Typical Active Supply (µA)	Output Current (mA)	Package	Digi-Key Part No.	Price Each 1	25	100
Step-Down DC/DC Controller	2.7 ~ 5.5	0.8 ~ 5.0	-40°C ~ 85°C	Adjustable	PWM	1,400	5,000	1,000	8-MSOP	MCP1612-ADJI/MS-ND◆	2.60	1.59	1.44
										MCP1612-ADJI/MF-ND◆	2.75	1.69	1.53
Evaluation Board for MCP1612										MCP1612EV-ND	35.00	—	—
Demo Board for MCP1650										MCP1650DM-DDSC1-ND	20.00	—	—
Demo Board for MCP1650										MCP1650DM-LED2-ND	40.00	—	—

Battery Management

Linear Mode	No. of Li-Ion Cells	Vcc Range (V)	Typical Reverse Leakage Current (µA)	Temperature Range	Integrated FET	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Qty.	Pricing
Yes	1	3.75 ~ 6.0	1	-40°C ~ 85°C	Int.	SOT-23-5	MCP73811T-420I/OTCT-ND◆†	.78	.70	.63	3,000	390.00/M
		4.5 ~ 5.5	8	-20°C ~ 85°C	Ext.	8-MSOP	MCP73827-4.1VUA-ND	1.28	.80	.73	—	—
		4.5 ~ 5.5	1	-20°C ~ 85°C	Ext.	8-MSOP	MCP73828-4.2VUA-ND	1.28	.80	.73	—	—
Yes	1	3.75 ~ 6.0	0.5	-40°C ~ 85°C	Int.	10-DFN	MCP73837-FCI/MF-ND◆ ***NEW!***	1.70	1.04	.94	—	—
						10-DFN	MCP73837T-FCI/MFCT-ND◆† ***NEW!***	1.70	1.04	.94	3,300	940.00/M
						10-MSOP	MCP73837-NVI/UN-ND◆ ***NEW!***	1.70	1.04	.94	—	—
Yes	1	3.75 ~ 6.0	0.5	-40°C ~ 85°C	Int.	10-DFN	MCP73838-FCI/MF-ND◆ ***NEW!***	1.70	1.04	.94	—	—
						10-MSOP	MCP73838-NVI/UN-ND◆ ***NEW!***	1.70	1.04	.94	—	—
Yes	1	4.5 ~ 5.5	0.24	-40°C ~ 85°C	Int.	16-QFN	MCP73853-I/ML-ND◆	2.35	1.48	1.35	—	—
							MCP73853T-I/MLCT-ND◆†	2.63	2.35	2.12	3,300	1350.00/M
Yes	1	4.5 ~ 5.5	0.24	-40°C ~ 85°C	Int.	10-DFN	MCP73855-I/MF-ND◆	2.05	1.29	1.18	—	—
							MCP73855T-I/MFCT-ND◆†	2.30	2.05	1.85	3,300	1180.00/M
Yes	1	4.5 ~ 12	0.5	-40°C ~ 85°C	Int.	16-QFN	MCP73861T-I/MLGCT-ND◆†	2.83	2.53	2.28	—	—
						16-SOIC	MCP73861-I/SL-ND◆	2.53	1.60	1.46	—	—
Yes	2	8.7 ~ 12	0.23	-40°C ~ 85°C	Int.	16-QFN	MCP73862T-I/MLGCT-ND◆†	3.19	2.85	2.57	—	—
Yes	1	4.5 ~ 12	0.5	-40°C ~ 85°C	Int.	16-QFN	MCP73863-I/ML-ND◆	2.53	1.60	1.46	—	—
						16-SOIC	MCP73863-I/SL-ND◆	2.53	1.60	1.46	—	—
Yes	2	8.7 ~ 12	0.5	-40°C ~ 85°C	Int.	16-QFN	MCP73864-I/ML-ND◆	2.85	1.81	1.65	—	—
Evaluation Kit for MCP7382X							MCP7382XEV-ND	45.00	—	—	—	—
Evaluation Kit for MCP73831							MCP73831EV-ND	45.00	—	—	—	—
Evaluation Board for MCP73833							MCP73833EV-ND	20.00	—	—	—	—
Evaluation Kit for MCP7384X							MCP7384XEV-ND◆	45.00	—	—	—	—
Evalution Board for MCP7386X							MCP7386XEV-ND◆	30.00	—	—	—	—
Single Chip Battery Manager, 28-SSOP							PS402-I/SS042-ND	3.75	—	—	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Hot Swap Controller

No. of Outputs	Vpos. to Vneg. Differential Voltage Min. Value	Over Voltage Lockout (OVLO)	Power GOOD	Int/Ext FET	Applications	Junction Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
1	-0.3V ~ 15.0V	Adjustable Threshold	Adjustable Polarity/ Adjustable Delay	External	48V Telecom/Datacom Optical Switch Bus/Backplane	-40°C ~ 85°C	20-SSOP	MCP18480-I/SS-ND	8.23	5.03	4.57

Power MOSFET Drivers

Description	Power	Configuration	Peak Output Current (A)	Output Resistance (Rh/Rl) (Max. 0 @ 25°C)	Maximum Supply Voltage (V)	Input/Output Delay (td1, td2) 1(ns)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	25	100	Qty.	Pricing
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Dual	Inverting	4.5	2.2/2.8	22	40/40	8-DIP	MCP14E3-E/P-ND◆	2.43	1.48	1.35	—	—
							8-DFN	MCP14E3-E/MF-ND◆ ***NEW!***	2.60	1.58	1.44	—	—
							8-SOIC	MCP14E3-E/SN-ND◆	2.38	1.45	1.31	—	—
	Dual	Non-Inverting	4.5	2.2/2.8	22	40/40	8-DIP	MCP14E4-E/P-ND◆	2.53	1.55	1.41	—	—
							8-DFN	MCP14E4-E/MF-ND◆ ***NEW!***	2.73	1.67	1.67	—	—
							8-SOIC	MCP14E4-E/SN-ND◆	2.48	1.51	1.38	—	—
	Dual	Inverting, Non-Inverting	4.5	2.2/2.8	22	40/40	8-DIP	MCP14E5-E/P-ND◆	2.53	1.55	1.41	—	—
							8-DFN	MCP14E5-E/MF-ND◆ ***NEW!***	2.73	1.67	1.52	—	—
							8-SOIC	MCP14E5-E/SN-ND◆	2.48	1.51	1.38	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Dual	Inverting	4.5	2.8/2.2	18	40/40	8-DIP	MCP1403-E/P-ND◆	2.43	1.48	1.35	—	—
							8-DFN	MCP1403-E/MF-ND◆	2.60	1.58	1.44	—	—
							8-SOIC	MCP1403-E/SN-ND◆	2.38	1.45	1.31	—	—
							16-SOIC	MCP1403-E/SO-ND◆	2.50	1.53	1.39	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Dual	Non-Inverting	4.5	2.8/2.2	18	40/40	8-DIP	MCP1404-E/P-ND◆	2.53	1.55	1.41	—	—
							8-DFN	MCP1404-E/MF-ND◆	2.73	1.67	1.52	—	—
							8-SOIC	MCP1404-E/SN-ND◆	2.48	1.51	1.38	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Dual	Inverting, Non-Inverting	4.5	2.8/2.2	18	40/40	8-DIP	MCP1405-E/P-ND◆	2.53	1.55	1.41	—	—
							8-DFN	MCP1405-E/MF-ND◆	2.73	1.67	1.52	—	—
							8-SOIC	MCP1405-E/SN-ND◆	2.48	1.51	1.38	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Inverting	6	2.1/1.5	18	40/40	8-DIP	MCP1406-E/P-ND◆	1.33	.82	.74	—	—
							TO-220-5	MCP1406-E/AT-ND◆	2.23	1.36	1.24	—	—
							8-DFN	MCP1406-E/MF-ND◆	1.45	.88	.80	—	—
							8-SOIC	MCP1406-E/SN-ND◆	1.30	.80	.72	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Non-Inverting	6	2.1/1.5	18	40/40	8-DIP	MCP1407-E/P-ND◆	1.33	.82	.74	—	—
							TO-220-5	MCP1407-E/AT-ND◆	2.23	1.36	1.24	—	—
							8-DFN	MCP1407-E/MF-ND◆	1.45	.88	.80	—	—
							8-SOIC	MCP1407-E/SN-ND◆	1.30	.80	.72	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Inverting	1.5	15/10	18	50/75	8-SOIC	TC426COA-ND◆	1.05	.92	.84	—	—
							8-DIP	TC426CPA-ND◆	1.08	.95	.86	—	—
							8-SOIC	TC426EOA-ND◆	1.05	.92	.84	—	—
							8-CDIP	TC426MJA-ND◆	9.48	9.07	8.25	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Non-Inverting	1.5	15/10	18	50/75	8-SOIC	TC427COA-ND◆	1.05	.92	.84	—	—
							8-DIP	TC427CPA-ND◆	1.08	.95	.86	—	—
							8-SOIC	TC427EOA-ND◆	1.05	.92	.84	—	—
							8-DIP	TC427EPA-ND◆	1.08	.95	.86	—	—
							8-CDIP	TC427MJA-ND	9.48	9.07	8.25	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Non-Inverting	1.5	15/10	18	50/75	8-SOIC	TC428COA-ND◆	1.05	.92	.84	—	—
							8-DIP	TC428CPA-ND◆	1.08	.95	.86	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Inverting	6	2.5/2.5	18	53/60	8-DIP	TC429CPA-ND◆	1.48	1.31	1.19	—	—
Low-Side MOSFET Drivers, 0.5A ~ 1.2A Peak Output Current	Single	Inverting	1	11/11	16	30/30	8-DIP	TC1411CPA-ND◆	1.00	.95	.86	—	—
Low-Side MOSFET Drivers, 0.5A ~ 1.2A Peak Output Current	Single	Inverting	1	11/11	16	30/30	8-DIP	TC1411NCPA-ND◆	1.00	.95	.86	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Dual	Non-Inverting	3	4/4	16	35/35	8-DIP	TC1413NCPA-ND◆	1.25	1.20	1.09	—	—
Low-Side MOSFET Drivers, 0.5A ~ 1.2A Peak Output Current	Dual	Inverting	1.2	18/18	16	75/75	8-SOIC	TC1426COA-ND◆	.98	.85	.77	—	—
							8-SOIC	TC1426COA713CT-ND†	1.27	1.16	1.06	3,300	770.00/M
							8-DIP	TC1426CPA-ND◆	.98	.86	.79	—	—
Low-Side MOSFET Drivers, 0.5A ~ 1.2A Peak Output Current	Dual	Non-Inverting	1.2	18/18	16	75/75	8-SOIC	TC1427COA-ND◆	.98	.85	.77	—	—
							8-SOIC	TC1427COA713CT-ND†	1.27	1.16	1.06	3,300	770.00/M
							8-DIP	TC1427CPA-ND◆	.98	.86	.79	—	—
Low-Side MOSFET Drivers, 0.5A ~ 1.2A Peak Output Current	Dual	Non-Inverting	1.2	18/18	16	75/75	8-SOIC	TC1428COA-ND◆	.98	.85	.77	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Inverting	1.5	10/10	18	15/32	8-SOIC	TC4404COA-ND◆	2.30	2.14	1.94	—	—
							8-DIP	TC4404CPA-ND◆	2.30	2.19	2.00	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Non-Inverting	1.5	10/10	18	15/32	8-SOIC	TC4405COA-ND◆	2.30	2.14	1.94	—	—
							8-DIP	TC4405CPA-ND◆	2.30	2.19	2.00	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Non-Inverting	6	2.8/2.5	18	55/55	8-SOIC	TC4420COA-ND◆	1.33	1.16	1.06	—	—
							8-SOIC	TC4420COA713CT-ND†	1.72	1.57	1.44	3,300	1060.00/M
							8-DIP	TC4420CPA-ND◆	1.35	1.19	1.08	—	—
							8-DIP	TC4420EPA-ND◆	1.38	1.21	1.10	—	—
							8-CDIP	TC4420MJA-ND	13.30	12.73	11.57	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Inverting	9	1.4 (typ)/1.7	18	30/33	TO-220-5	TC4421AVAT-ND◆	3.20	1.96	1.78	—	—
							8-DFN	TC4421AVMF-ND◆	2.85	1.74	1.58	—	—
							8-SOIC	TC4421AVOA-ND◆	2.50	1.53	1.39	—	—
							8-DIP	TC4421AVPA-ND◆	2.58	1.57	1.42	—	—
							TO-220-5	TC4421CAT-ND◆	3.03	2.90	2.63	—	—
							8-DIP	TC4421CPA-ND◆	2.43	2.31	2.10	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Non-Inverting	9	1.4 (typ)/1.7	18	30/33	TO-220-5	TC4422AVAT-ND◆	3.20	1.96	1.78	—	—
							8-DFN	TC4422AVMF-ND◆	2.85	1.74	1.58	—	—
							8-SOIC	TC4422AVOA-ND◆	2.50	1.53	1.39	—	—
							8-DIP	TC4422AVPA-ND◆	2.58	1.57	1.42	—	—
							8-DIP	TC4422CPA-ND◆	2.43	2.31	2.10	—	—
							8-DIP	TC4422EPA-ND◆	2.55	2.43	2.21	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Dual	Inverting	3	5/5	18	33/38	16-SOIC	TC4423COE-ND◆	2.20	2.11	1.92	—	—
							8-DIP	TC4423CPA-ND◆	2.00	1.90	1.73	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Dual	Non-Inverting	3	5/5	18	33/38	8-DIP	TC4424CPA-ND◆	2.00	1.90	1.73	—	—
							(wide)16-SOIC	TC4424COE-ND◆	2.20	2.11	1.92	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

MICROCHIP

Power Management

Power MOSFET Drivers *(Cont.)*

Description	Power	Configuration	Peak Output Current (A)	Output Resistance (Rh/Rl) (Max. O @ 25°C)	Maximum Supply Voltage (V)	Input/Output Delay (td1, td2) 1(ns)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	25	100	Qty.	Pricing
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Dual	Non-Inverting	3	5/5	18	33/38	8-DIP	TC4425CPA-ND◆	2.00	1.90	1.73	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Inverting	1.5	10/10	18	20/40	8-SOIC	TC4426COA-ND◆	1.03	.90	.81	—	—
							8-DIP	TC4426CPA-ND◆	1.08	.94	.86	—	—
							8-SOIC	TC4426EOA-ND◆	1.05	.92	.84	—	—
							8-DIP	TC4426EPA-ND◆	1.08	.94	.86	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Non-Inverting	1.5	9/9	18	30/30	8-SOIC	TC4427ACOA-ND◆	1.05	.70	.64	—	—
							8-DIP	TC4427ACPA-ND◆	1.08	.94	.86	—	—
							8-SOIC	TC4427AEOA-ND◆	1.05	.92	.84	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Non-Inverting	1.5	10/10	18	20/40	8-SOIC	TC4427COA-ND◆	1.03	.90	.81	—	—
							8-SOIC	TC4427COA713CT-ND◆†	1.33	1.21	1.11	3,300	810.00/M
							8-DIP	TC4427CPA-ND◆	1.05	.92	.84	—	—
							8-DIP	TC4427EPA-ND◆	1.08	.95	.86	—	—
							8-SOIC	TC4427EOA-ND◆	1.05	.92	.84	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Non-Inverting	1.5	10/10	18	20/40	8-SOIC	TC4428COA-ND◆	1.03	.90	.81	—	—
							8-DIP	TC4428CPA-ND◆	1.05	.92	.84	—	—
							8-SOIC	TC4428EOA-ND◆	1.05	.92	.84	—	—
Low-Side MOSFET Drivers, 2.0A ~ 9.0A Peak Output Current	Single	Inverting	6	2.8/2.5	18	55/55	8-SOIC	TC4429COA-ND◆	1.33	1.16	1.06	—	—
							8-DIP	TC4429CPA-ND◆	1.35	1.19	1.08	—	—
High-Side/Low-Side MOSFET Drivers	Single	Non-Inverting	1.5	10/10	30	62/78	8-SOIC	TC4432COA-ND◆	2.30	2.14	1.94	—	—
							8-DIP	TC4432CPA-ND◆	2.30	2.19	2.00	—	—
Low-Side MOSFET Drivers, 0.5A ~ 1.2A Peak Output Current	Quad	Inverting	1.2	15/15	18	40/40	16-SOIC	TC4467COE-ND◆	3.68	3.51	3.19	—	—
							14-DIP	TC4467CPD-ND◆	2.70	2.57	2.34	—	—
Low-Side MOSFET Drivers, 0.5A ~ 1.2A Peak Output Current	Quad	Non-Inverting	1.2	15/15	18	40/40	14-DIP	TC4468CPD-ND◆	2.43	2.13	1.94	—	—
							16-SOIC	TC4468COE-ND◆	2.48	2.18	1.98	—	—
Low-Side MOSFET Drivers, 0.5A ~ 1.2A Peak Output Current	Quad	Non-Inverting	1.2	15/15	18	40/40	14-DIP	TC4469CPD-ND◆	2.43	2.13	1.94	—	—
							(wide)16-SOIC	TC4469COE-ND◆	2.48	2.18	1.98	—	—
							(wide)16-SOIC	TC4469COE713CT-ND◆†	3.22	2.93	2.68	1,000	1980.00

Mixed Signal

Successive Approximation Register (SAR) A/D Converters

Resolution (bits)	Max. Sample Rate (ksamples/sec.)	No. of Input Channels	Interface	Input Voltage Range (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
							1	25	100	Qty.	Pricing
10	200	1	SPI™	2.7 ~ 5.5	8-MSOP	MCP3001-I/MS-ND	2.18	1.38	1.26	—	—
					8-DIP	MCP3001-I/P-ND◆	2.18	1.38	1.26	—	—
					8-SOIC	MCP3001-I/SN-ND◆	2.18	1.38	1.26	—	—
					8-TSSOP	MCP3001-I/ST-ND◆	2.18	1.38	1.26	—	—
					8-SOIC	MCP3001T-I/SNCT-ND†	2.44	2.18	1.96	3,300	1260.01/M
10	200	2	SPI™	2.7 ~ 5.5	8-MSOP	MCP3002-I/MS-ND◆	2.35	1.48	1.35	—	—
					8-DIP	MCP3002-I/P-ND◆	2.35	1.48	1.35	—	—
					8-SOIC	MCP3002-I/SN-ND◆	2.35	1.48	1.35	—	—
					8-TSSOP	MCP3002-I/ST-ND◆	2.35	1.48	1.35	—	—
10	200	4	SPI™	2.7 ~ 5.5	14-DIP	MCP3004-I/P-ND	2.75	1.74	1.58	—	—
					8-MSOP	MCP3004-I/SL-ND◆	2.75	1.74	1.58	—	—
					14-TSSOP	MCP3004-I/ST-ND◆	2.75	1.74	1.58	—	—
10	200	8	SPI™	2.7 ~ 5.5	16-DIP	MCP3008-I/P-ND◆	2.90	1.83	1.66	—	—
					16-SOIC	MCP3008-I/SL-ND◆	2.90	1.83	1.66	—	—
12	100	1	SPI™	2.7 ~ 5.5	8-DIP	MCP3201-CI/P-ND◆	3.00	1.91	1.73	—	—
					8-SOIC	MCP3201-CI/SN-ND◆	3.00	1.91	1.73	—	—
					8-DIP	MCP3201-BI/P-ND◆	3.48	2.21	2.01	—	—
					8-SOIC	MCP3201-BI/SN-ND◆	3.48	2.21	2.01	—	—
					8-SOIC	MCP3201T-CI/SNCT-ND†	3.36	3.00	2.70	3,300	1730.01/M
					8-TSSOP	MCP3201-CI/ST-ND◆	3.00	1.91	1.73	—	—
12	100	2	SPI™	2.7 ~ 5.5	8-SOIC	MCP3202-BI/SN-ND◆	3.80	2.41	2.19	—	—
					8-DIP	MCP3202-BI/P-ND◆	3.80	2.41	2.19	—	—
					8-MSOP	MCP3202-CI/MS-ND◆	3.33	2.11	1.92	—	—
					8-TSSOP	MCP3202-CI/ST-ND◆	3.33	2.11	1.92	—	—
					8-DIP	MCP3202-CI/P-ND◆	3.33	2.11	1.92	—	—
					8-SOIC	MCP3202-CI/SN-ND◆	3.33	2.11	1.92	—	—
12	100	4	SPI™	2.7 ~ 5.5	14-DIP	MCP3204-BI/P-ND◆	5.20	3.29	2.99	—	—
					14-SOIC	MCP3204-BI/SL-ND◆	5.20	3.29	2.99	—	—
					14-DIP	MCP3204-CI/P-ND◆	4.18	2.64	2.40	—	—
					14-SOIC	MCP3204-CI/SL-ND◆	4.18	2.64	2.40	—	—
					14-SOIC	MCP3204T-CI/SLCT-ND†	4.68	4.18	3.76	2,600	2400.01/M
					14-TSSOP	MCP3204-CI/ST-ND◆	4.18	2.64	2.40	—	—
12	100	8	SPI™	2.7 ~ 5.5	16-DIP	MCP3208-BI/P-ND◆	5.73	3.62	3.30	—	—
					16-DIP	MCP3208-CI/P-ND◆	4.58	2.90	2.64	—	—
					16-SOIC	MCP3208-CI/SL-ND◆	4.58	2.90	2.64	—	—
12	22	1	I^{2}C™ COMPATIBLE/SPI™	2.7 ~ 5.5	SOT-23-5	MCP3221A5T-I/OTCT-ND◆†	2.33	1.86	1.63	3,000	1330.01/M
13	100	1	SPI™	2.7 ~ 5.5	8-MSOP	MCP3301-CI/MS-ND◆	3.10	1.89	1.72	—	—
					8-DIP	MCP3301-CI/P-ND◆	3.00	1.89	1.72	—	—
					8-SOIC	MCP3301-CI/SN-ND◆	3.00	1.89	1.72	—	—
13	100	2	SPI™	2.7 ~ 5.5	14-DIP	MCP3302-BI/P-ND◆	5.15	3.27	2.97	—	—
					14-SOIC	MCP3302-BI/SL-ND◆	5.15	3.27	2.97	—	—
					14-TSSOP	MCP3302-BI/ST-ND	5.35	3.27	2.97	—	—
					14-DIP	MCP3302-CI/P-ND◆	4.13	2.61	2.37	—	—
					14-SOIC	MCP3302-CI/SL-ND◆	4.13	2.61	2.37	—	—
					14-TSSOP	MCP3302-CI/ST-ND◆	4.28	2.61	2.37	—	—
13	100	4	SPI™	2.7 ~ 5.5	16-DIP	MCP3304-BI/P-ND◆	5.70	3.60	3.28	—	—
					16-SOIC	MCP3304-BI/SL-ND◆	5.70	3.60	3.28	—	—
					16-DIP	MCP3304-CI/P-ND◆	4.55	2.89	2.62	—	—
					16-SOIC	MCP3304-CI/SL-ND◆	4.55	2.89	2.62	—	—
MCP3201/02 Daughter Board						DV3201A-ND	89.99	—	—	—	—
MCP3204/08 Daughter Board						DV3204A-ND	89.99	—	—	—	—
Demo Board for PICtail™ MCP3221						MCP3221DM-PCTL-ND	25.00	—	—	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Delta - Sigma A/D Converters

Resolution (bits)	Max Sample Rate (samples/sec)	Input Type	Interface	Supply Voltage Range	Typical Supply Current	Typical INL (PPM)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	25	100	Qty.	Pricing
18	4	1 Differential	I2C™	2.7V ~ 5.0V	155µA	10	SOT-23-6	MCP3421A5T-E/OTCT-ND◆†	3.67	3.28	2.95	3,000	1810.00/M
22	13	1 Differential	SPI™	2.7V ~ 5.5V	120µA	2	8-MSOP	MCP3550-50E/MS-ND◆	5.50	3.35	3.04	—	—
							8-SOIC	MCP3550-50E/SN-ND◆	5.45	3.32	3.01	—	—
22	15	1 Differential	SPI™	2.7V ~ 5.5V	140µA	0.0002	8-MSOP	MCP3550-60E/MS-ND◆	5.50	3.35	3.04	—	—
							8-SOIC	MCP3550-60E/SN-ND◆	5.45	3.32	3.01	—	—
22	14	1 Differential	SPI™	2.7V ~ 5.5V	120µA	0.0002	8-MSOP	MCP3551-E/MS-ND◆	5.50	3.35	3.04	—	—
							8-SOIC	MCP3551-E/SN-ND◆	5.45	3.32	3.01	—	—
20	60	1 Differential	SPI™	2.7V ~ 5.5V	140µA	0.0002	8-MSOP	MCP3553-E/MS-ND◆	5.50	3.35	3.04	—	—
							8-SOIC	MCP3553-E/SN-ND◆	5.45	3.32	3.01	—	—
Evaluation Board for MCP3421								MCP3421EV-ND	15.00	—	—	—	—
Demo Board for MCP355X								MCP355XDM-TAS-ND	45.00	—	—	—	—
Demo Board for MCP355X								MCP355XDV-MS1-ND	145.00	—	—	—	—
Evaluation Board for PT100 RTD Sensor								TMPSNS-RTD1-ND	45.00	—	—	—	—

Dual Slope A/D Converters

Supply Voltage Range (V)	Input Voltage Range (V)	Resolution	Sampling Rate (Conv/sec)	Input Channels	Interface	Differential Input Range	Programmable Resolution/ Conversion Time	Charge Pump (-V) Output Pin	Package	Digi-Key Part No.	Price Each		
											1	25	100
±4.5 ~ ±7.5	Vss +1.5V to Vdd -1.5V	Up to 17 bits	4 ~ 10	1	3-Wire	Yes	Yes	No	16-SOIC	TC500ACOE-ND◆	4.80	2.93	2.66
									16-DIP	TC500ACPE-ND◆	4.23	2.58	2.35
±4.5 ~ ±7.5	Vss +1.5V to Vdd -1.5V	Up to 16 bits	4 ~ 10	1	3-Wire	Yes	Yes	No	16-SOIC	TC500COE-ND◆	4.23	2.58	2.35
									16-DIP	TC500CPE-ND◆	3.10	1.89	1.72
±4.5 ~ ±5.5	—	—	—	—	Serial Port	No	No	No	14-DIP	TC520ACPD-ND◆	5.53	5.28	4.80
±4.5 ~ ±5.5	Vss +1.5V to Vdd -1.5V	12 bits plus sign bit	2 ~ 10	1	Serial Port	Yes	No	No	40-DIP	TC7109ACPL-ND◆	7.48	7.15	6.50
									44-PQFP	TC7109ACKW-ND	10.58	10.12	9.20
±4.5 ~ ±5.5	Vss +1.5V to Vdd -1.5V	12 bits plus sign bit	2 ~ 10	1	Serial Port	Yes	No	No	40-DIP	TC7109CPL-ND◆	6.33	6.05	5.50

Display A/D Converters

Display Type	Supply Voltage (V)	Resolution (Digits)	Resolution (Counts)	Power (mW)	For DMM, DPM, Data Loggers	Hold Function	Package	Digi-Key Part No.	Price Each		
									1	25	100
LCD	9	3.75	4,000	10	No	No	40-DIP	TC820CPL-ND	9.68	9.26	8.42
LCD	9	3.5	2,000	10	No	Yes		TC7106ACPL-ND◆	4.50	4.30	3.91
LCD	9	3.5	2,000	10	Yes	No		TC7106CPL-ND◆	3.93	3.75	3.40
LED	5	3.5	2,000	10	No	Yes		TC7107ACPL-ND	4.25	4.07	3.70
LED	5	3.5	2,000	10	No	Yes	44-PQFP	TC7107CKW-ND◆	3.68	3.53	3.21
							40-DIP	TC7107CPL-ND◆	3.68	3.53	3.21
LCD	9	3.5	2,000	10	No	Yes	40-DIP	TC7116ACPL-ND◆	5.73	5.48	4.98
LCD	9	3.5	2,000	10	No	Yes		TC7116CPL-ND◆	4.60	4.40	4.00
LED	5	3	2,000	10	No	Yes		TC7117ACPL-ND◆	5.98	5.72	5.20
LED	5	3	2,000	10	No	Yes	44-PQFP	TC7117CKW-ND◆	4.15	3.96	3.60
							40-DIP	TC7117CPL-ND◆	4.15	3.96	3.60
LCD	9	3.5	2,000	0.5	No	No	40-DIP	TC7126CPL-ND◆	5.75	5.50	5.00
LCD	9	4.5	20,000	4.5	No	No		TC7129CPL-ND	12.23	11.70	10.64

Binary and BCD A/D Converters

Description	Supply Voltage (V)	Input Voltage Range (V)	Resolution (Digits)	Resolution (Counts)	Maximum Power (mW)	Interface	For DMM,DPM Data Loggers	Package	Digi-Key Part No.	Price Each		
										1	25	100
BCD A/D	±4.5 ~ ±8	±199.9mV ~ 1.999	3	2,000	20	MUXed BCD	Yes	24-DIP	TC14433AEPG-ND	5.75	5.50	5.00
									TC14433EPG-ND	5.75	5.50	5.00

D/A Converters

Resolution (Bits)	DACs per Package	Interface	Vref	Output Setting Time (s)	DNL (LSB)	Typical Standby Current (µA)	Typical Operating Current (µA)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
										1	25	100	Qty.	Pricing
12	1	I^{2}C™	External	6	0.2	0.06	210	SOT-23-6	MCP4725A0T-E/CHCT-ND◆† ***NEW!***	2.38	1.45	1.32	3,000	1187.50/M
12	1	2 SPI™	Internal	4	0.2	0.3	330	8-MSOP	MCP4821-E/MS-ND◆	3.03	1.92	1.74	—	—
								8-DIP	MCP4821-E/P-ND◆	3.03	1.92	1.74	—	—
								8-SOIC	MCP4821-E/SN-ND◆	3.18	2.01	1.83	—	—
12	2	2 SPI™	Internal	4	0.2	0.3	415	8-MSOP	MCP4822-E/MS-ND◆	3.95	2.50	2.27	—	—
								8-DIP	MCP4822-E/P-ND◆	3.95	2.50	2.27	—	—
								8-SOIC	MCP4822-E/SN-ND◆	3.95	2.50	2.27	—	—
12	1	SPI™	External	4.5	0.25	0.5	125	8-MSOP	MCP4921-E/MS-ND◆	2.60	1.65	1.50	—	—
								8-MSOP	MCP4921T-E/MSCT-ND◆†	2.91	2.60	2.34	2,500	1500.01/M
								8-DIP	MCP4921-E/P-ND◆	2.60	1.65	1.50	—	—
								8-SOIC	MCP4921-E/SN-ND◆	2.60	1.65	1.50	—	—
								8-SOIC	MCP4921T-E/SNCT-ND◆†	2.91	2.60	2.34	3,300	1500.01/M
12	2	SPI™	External	4.5	0.25	0.5	250	14-DIP	MCP4922-E/P-ND◆	3.45	2.19	1.99	—	—
								14-SOIC	MCP4922-E/SL-ND◆	3.45	2.19	1.99	—	—
								14-SOIC	MCP4922T-E/SLCT-ND◆†	3.86	3.45	3.11	2,600	1990.00/M
								14-TSSOP	MCP4922-E/ST-ND◆	3.45	2.19	1.99	—	—
								14-TSSOP	MCP4922T-E/STCT-ND†	3.86	3.45	3.11	2,500	1990.00/M

Digital Potentiometers

No. of Taps	No. per Package	Interface	Resistance (Ω)	Max. INL ± (LSB)	Max. DNL ± (LSB)	Temperature Range	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	25	100	Qty.	Pricing
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	8-DFN	MCP4011T-103E/MCCT-ND◆†	.76	.68	.61	3,300	390.00/M
			10,000				8-MSOP	MCP4011-103E/MS-ND◆	.68	.42	.39	—	—
			10,000				8-SOIC	MCP4011-103E/SN-ND◆	.68	.42	.39	—	—
			2,100				8-DFN	MCP4011T-202E/MCCT-ND◆†	.76	.68	.61	3,300	390.00/M
			2,100				8-MSOP	MCP4011-202E/MS-ND◆	.68	.42	.39	—	—
			2,100				8-SOIC	MCP4011-202E/SN-ND◆	.68	.42	.39	—	—
			5,000				8-DFN	MCP4011T-502E/MCCT-ND◆†	.76	.68	.61	3,300	390.00/M
			5,000				8-MSOP	MCP4011-502E/MS-ND◆	.68	.42	.39	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel**®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key**® Services on page 2 for additional information.

MICROCHIP

Mixed Signal

Digital Potentiometers *(Cont.)*

No. of Taps	No. per Package	Interface	Resistance (Ω)	Max. INL ± (LSB)	Max. DNL ± (LSB)	Temperature Range	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	25	100	Qty.	Pricing
64	1	Up/Down Protocol	5,000	0.5	0.5	-40°C ~ 125°C	8-SOIC	MCP4011-502E/SN-ND◆	.68	.42	.39	—	—
			50,000				8-DFN	MCP4011T-503E/MCCT-ND◆†	.76	.68	.61	3,300	390.00/M
			50,000				8-MSOP	MCP4011-503E/MS-ND◆	.68	.42	.39	—	—
			50,000				8-SOIC	MCP4011-503E/SN-ND◆	.68	.42	.39	—	—
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	SOT-23-6	MCP4012T-103E/CHCT-ND◆†	.76	.68	.61	3,000	390.00/M
			2,100					MCP4012T-202E/CHCT-ND◆†	.76	.68	.61	3,000	390.00/M
			5,000					MCP4012T-502E/CHCT-ND◆†	.76	.68	.61	3,000	390.00/M
			50,000					MCP4012T-503E/CHCT-ND◆†	.76	.68	.61	3,000	390.00/M
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	SOT-23-6	MCP4013T-103E/CHCT-ND◆†	.76	.68	.61	3,000	390.00/M
			2,100					MCP4013T-202E/CHCT-ND◆†	.76	.68	.61	3,000	390.00/M
			5,000					MCP4013T-502E/CHCT-ND◆†	.76	.68	.61	3,000	390.00/M
			50,000					MCP4013T-503E/CHCT-ND◆†	.76	.68	.61	3,000	390.00/M
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	SOT-23-5	MCP4014T-103E/OTCT-ND◆†	.76	.68	.61	3,000	390.00/M
			2,100					MCP4014T-202E/OTCT-ND◆†	.76	.68	.61	3,000	390.00/M
			5,000					MCP4014T-502E/OTCT-ND◆†	.76	.68	.61	3,000	390.00/M
			50,000					MCP4014T-503E/OTCT-ND◆†	.76	.68	.61	3,000	390.00/M
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	8-DFN	MCP4021T-103E/MCCT-ND◆†	1.23	1.10	.99	3,300	630.00/M
			10,000				8-MSOP	MCP4021-103E/MS-ND◆	1.05	.67	.61	—	—
			10,000				8-SOIC	MCP4021-103E/SN-ND◆	1.03	.65	.59	—	—
			2,100				8-DFN	MCP4021T-202E/MCCT-ND◆†	1.23	1.10	.99	3,300	630.00/M
			2,100				8-MSOP	MCP4021-202E/MS-ND◆	1.05	.67	.61	—	—
			2,100				8-SOIC	MCP4021-202E/SN-ND◆	1.03	.65	.59	—	—
			5,000				8-DFN	MCP4021T-502E/MCCT-ND◆†	1.23	1.10	.99	3,300	630.00/M
			5,000				8-MSOP	MCP4021-502E/MS-ND◆	1.05	.67	.61	—	—
			5,000				8-SOIC	MCP4021-502E/SN-ND◆	1.03	.65	.59	—	—
			50,000				8-DFN	MCP4021T-503E/MCCT-ND◆B	1.23	1.10	.99	3,300	630.00/M
			50,000				8-MSOP	MCP4021-503E/MS-ND◆	1.05	.67	.61	—	—
			50,000				8-SOIC	MCP4021-503E/SN-ND◆	1.03	.65	.59	—	—
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	SOT-23-6	MCP4022T-103E/CHCT-ND◆†	1.18	1.05	.95	3,000	600.00/M
			2,100					MCP4022T-202E/CHCT-ND◆†	1.18	1.05	.95	3,000	600.00/M
			5,000					MCP4022T-502E/CHCT-ND◆†	1.18	1.05	.95	3,000	600.00/M
			50,000					MCP4022T-503E/CHCT-ND◆†	1.18	1.05	.95	3,000	600.00/M
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	SOT-23-6	MCP4023T-103E/CHCT-ND◆†	1.18	1.05	.95	3,000	600.00/M
			2,100					MCP4023T-202E/CHCT-ND◆†	1.18	1.05	.95	3,000	600.00/M
			5,000					MCP4023T-502E/CHCT-ND◆†	1.18	1.05	.95	3,000	600.00/M
			50,000					MCP4023T-503E/CHCT-ND◆†	1.18	1.05	.95	3,000	600.00/M
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	SOT-23-5	MCP4024T-103E/OTCT-ND◆†	1.18	1.05	.95	3,000	600.00/M
			2,100					MCP4024T-202E/OTCT-ND◆†	1.18	1.05	.95	3,000	600.00/M
			50,000					MCP4024T-503E/OTCT-ND◆†	1.18	1.05	.95	3,000	600.00/M
			5,000					MCP4024T-502E/OTCT-ND◆†	1.18	1.05	.95	3,000	600.00/M
129	2	SPI™	10,000	0.5	0.5	-40°C ~ 125°C	14-SOIC	MCP4231-103-E/SL-ND◆	1.23	.75	.68	—	—
							14-DIP	MCP4231-103-E/P-ND◆	1.23	.75	.68	—	—
129	2	SPI™	10,000	0.5	0.25	-40°C ~ 125°C	10-MSOP	MCP4232-103-E/UN-ND◆ ***NEW!***	1.23	.75	.69	—	—
129	2	SPI™	10,000	0.5	0.25	-40°C ~ 125°C	14-SOIC	MCP4241-103E/SL-ND◆	1.45	.88	.80	—	—
			10,000				14-DIP	MCP4241-103-E/P-ND◆	1.45	.88	.80	—	—
			10,000				14-TSSOP	MCP4241-103E/ST-ND◆ ***NEW!***	1.45	.88	.80	—	—
			100,000				14-SOIC	MCP4241-104E/SL-ND◆ ***NEW!***	1.45	.88	.80	—	—
			100,000				14-TSSOP	MCP4241-104E/ST-ND◆ ***NEW!***	1.45	.88	.80	—	—
			5,000				14-SOIC	MCP4241-502E/SL-ND◆ ***NEW!***	1.45	.88	.80	—	—
			5,000				14-TSSOP	MCP4241-502E/ST-ND◆ ***NEW!***	1.45	.88	.80	—	—
			50,000				14-SOIC	MCP4241-503E/SL-ND◆ ***NEW!***	1.45	.88	.80	—	—
			50,000				14-TSSOP	MCP4241-503E/ST-ND◆ ***NEW!***	1.45	.88	.80	—	—
129	2	SPI™	10,000	0.5	0.25	-40°C ~ 125°C	10-MSOP	MCP4242-103-E/UN-ND◆	1.45	.88	.80	—	—
257	2	SPI™	10,000	0.5	0.25	-40°C ~ 125°C	14-SOIC	MCP4251-103-E/SL-ND◆	1.45	.88	.80	—	—
							14-DIP	MCP4251-103-E/P-ND◆	1.45	.88	.80	—	—
257	2	SPI™	10,000	0.5	0.25	-40°C ~ 125°C	10-MSOP	MCP4252-103-E/UN-ND◆ ***NEW!***	1.45	.89	.81	—	—
257	2	SPI™	10,000	1	0.5	-40°C ~ 125°C	14-SOIC	MCP4261-103-E/SL-ND◆	1.65	1.01	.92	—	—
							14-DIP	MCP4261-103-E/P-ND◆	1.65	1.01	.92	—	—
257	2	SPI™	10,000	1	0.5	-40°C ~ 125°C	10-MSOP	MCP4262-103-E/UN-ND◆ ***NEW!***	1.65	1.01	.92	—	—
256	1	SPI™	10,000	1	1	-40°C ~ 85°C	8-DIP	MCP41010-I/P-ND◆	1.78	1.12	1.02	—	—
							8-SOIC	MCP41010-I/SN-ND◆	1.78	1.12	1.02	—	—
256	1	SPI™	50,000	1	1	-40°C ~ 85°C	8-DIP	MCP41050-I/P-ND◆	1.78	1.12	1.02	—	—
							8-SOIC	MCP41050-I/SN-ND◆	1.78	1.12	1.02	—	—
256	1	SPI™	100,000	1	1	-40°C ~ 85°C	8-DIP	MCP41100-I/P-ND◆	1.78	1.12	1.02	—	—
							8-SOIC	MCP41100-I/SN-ND◆	1.78	1.12	1.02	—	—
256	2	SPI™	10,000	1	1	-40°C ~ 85°C	14-DIP	MCP42010-I/P-ND◆	2.65	1.68	1.52	—	—
							14-SOIC	MCP42010-I/SL-ND◆	2.65	1.68	1.52	—	—
							14-TSSOP	MCP42010-I/ST-ND◆	2.65	1.68	1.52	—	—
256	2	SPI™	50,000	1	1	-40°C ~ 85°C	14-DIP	MCP42050-I/P-ND◆	2.65	1.68	1.52	—	—
							14-SOIC	MCP42050-I/SL-ND◆	2.65	1.68	1.52	—	—
							14-TSSOP	MCP42050-I/ST-ND◆	2.65	1.68	1.52	—	—
256	2	SPI™	100,000	1	1	-40°C ~ 85°C	14-DIP	MCP42100-I/P-ND◆	2.65	1.68	1.52	—	—
							14-SOIC	MCP42100-I/SL-ND◆	2.65	1.68	1.52	—	—
							14-TSSOP	MCP42100-I/ST-ND◆	2.65	1.68	1.52	—	—
Evaluation Board for MCP4022, MCP4023 and MCP4024								VSUPEV2-ND◆	10.00	—	—	—	—
Evaluation Board for MCP402X								MCP402XEV-ND◆	15.00	—	—	—	—
Daughter Board for MCP4XXX								MCP4XXXDM-DB-ND	25.00	—	—	—	—
Evaluation Board for Supervisor SOT23								VSUPEV-ND	5.00	—	—	—	—
14-Pin SOIC/TSSOP/DIP Evaluation Board								SOIC14EV-ND◆	20.00	—	—	—	—

Frequency-to-Voltage / Voltage-to-Frequency

Frequency Range (kHz)	Full Scale (ppm FS/°C)	Non-linearity (%FS)	Package	Digi-Key Part No.	Price Each		
					1	25	100
100	40	±0.02	14-SOIC	TC9400COD-ND	7.13	6.82	6.20
			14-DIP	TC9400CPD-ND	6.33	6.05	5.50
			14-CDIP	TC9400EJD-ND	12.78	12.21	11.10
100	100	±0.25	14-DIP	TC9402CPD-ND	3.00	2.86	2.60

Energy Measurement

Measurement Error	Dynamic Range	Gain Selection	Voltage Reference Drift ppm typ.	MechCounter Drive (mA)	PSSR % typ.	AIdd Max. (mA)	DIdd Max. (mA)	Supply Voltage Range (V)	Temperature Range	Package	Digi-Key Part No.	Price Each		
												1	25	100
0.1%	500:1	1:16	15	15	0.01%	3	2	4.5 ~ 5.5	-40°C ~ 85°C	24-SSOP	MCP3905-I/SS-ND◆	2.73	2.46	1.51
											MCP3905A-I/SS-ND◆	2.58	1.57	1.43
											MCP3905L-I/SS-ND◆ ***NEW!***	2.65	1.63	1.48
0.1%	1000:1	1:32	15	15	0.01%	3	2	4.5 ~ 5.5	-45°C ~ 85°C	24-SSOP	MCP3906A-I/SS-ND◆	2.78	1.70	1.55
0.1%	1000:1	1:16	15	15	0.01%	2.8	1.2	4.5 ~ 5.5	-40°C ~ 85°C	24-SSOP	MCP3909-I/SS-ND◆	2.88	1.76	1.60
Evaluation Board for MCP3905											MCP3905EV-ND	75.00	—	—
Reference Design for MCP3905											MCP3905RD-PM1-ND	45.00	—	—
Reference Design for MCP3909											MCP3909RD-3PH1-ND	249.99	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

Linear

Op Amps

No. per Package	GBWP	Iq Typical (µA)	Iq Max. (mA)	Vos Max. (mV)	Operating Voltage Range (V)	Temperature Range	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	25	100	Qty.	Pricing
1	2.8MHz	230	.325	2	2.7 ~ 5.5	-40°C ~ 85°C	8-DIP	MCP601-I/P-ND◆	.65	.42	.38	—	—
							8-SOIC	MCP601-I/SN-ND◆	.65	.42	.38	—	—
							SOT-23-5	MCP601RT-I/OTCT-ND†	.67	.60	.54	3,000	340.00/M
1	2.8MHz	230	.325	2	2.7 ~ 5.5	-40°C ~ 85°C	SOT-23-5	MCP601T-I/OTCT-ND†	.54	.47	.42	3,000	340.00/M
1	2.8MHz	230	.325	2	2.7 ~ 5.5	-40°C ~ 85°C	8-DIP	MCP602-I/P-ND◆	.85	.54	.49	—	—
							8-SOIC	MCP602-I/SN-ND◆	.85	.54	.49	—	—
							8-TSSOP	MCP602-I/ST-ND	.90	.54	.49	—	—
1	2.8MHz	230	.325	2	2.7 ~ 5.5	-40°C ~ 85°C	8-DIP	MCP603-I/P-ND	.70	.44	.40	—	—
							8-SOIC	MCP603-I/SN-ND◆	.70	.44	.40	—	—
4	2.8MHz	230	.325	2	2.7 ~ 5.5	-40°C ~ 85°C	14-DIP	MCP604-I/P-ND◆	1.58	1.00	.91	—	—
							14-SOIC	MCP604-I/SL-ND◆	1.58	1.00	.91	—	—
1	155MHz	18.70	.025	.25	2.5 ~ 5.5	-40°C ~ 85°C	8-DIP	MCP606-I/P-ND◆	1.00	.63	.57	—	—
							8-SOIC	MCP606-I/SN-ND◆	1.00	.63	.57	—	—
2	155MHz	18.70	.025	.25	2.5 ~ 5.5	-40°C ~ 85°C	8-DIP	MCP607-I/P-ND◆	1.33	.83	.76	—	—
							8-SOIC	MCP607-I/SN-ND◆	1.33	.83	.76	—	—
1	155MHz	18.70	.025	.25	2.5 ~ 5.5	-40°C ~ 85°C	8-DIP	MCP608-I/P-ND	1.05	.67	.61	—	—
							8-SOIC	MCP608-I/SN-ND◆	1.05	.67	.61	—	—
4	155MHz	18.70	.025	.25	2.5 ~ 5.5	-40°C ~ 85°C	14-DIP	MCP609-I/P-ND◆	1.98	1.25	1.14	—	—
							14-SOIC	MCP609-I/SL-ND◆	1.98	1.25	1.14	—	—
4	190kHz	19	.025	0.15	2.3 ~ 5.5	-40°C ~ 85°C	14-DIP	MCP619-I/P-ND	2.08	1.31	1.20	—	—
							14-SOIC	MCP619T-I/SLCT-ND†	2.32	2.08	1.87	2,600	1200.00/M
							14-SOIC	MCP619-I/SL-ND◆	2.08	1.31	1.20	—	—
1	1,000kHz	140	.170	4.5	1.8 ~ 5.5	-40°C ~ 125°C	SC-70-5	MCP6001T-I/LTCT-ND◆†	.45	.40	.36	3,000	390.00/M
							SOT-23-5	MCP6001RT-I/OTCT-ND†	.42	.38	.36	3,000	350.00/M
							SOT-23-5	MCP6001T-I/OTCT-ND†	.42	.38	.37	3,000	350.00/M
							SOT-23-5	MCP6001UT-I/OTCT-ND◆†	.42	.38	.34	3,000	350.00/M
2	1,000kHz	140	.170	4.5	1.8 ~ 5.5	-25°C ~ 85°C	8-MSOP	MCP6002T-I/MSCT-ND†	.56	.50	.45	2,500	480.00/M
							8-DIP	MCP6002-I/P-ND◆	.53	.53	.48	—	—
							8-SOIC	MCP6002-I /SN-ND◆	.53	.53	.48	—	—
4	1,000kHz	140	.170	7	1.8 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6004-I/P-ND◆	.72	.71	.65	—	—
							14-SOIC	MCP6004-I/SL-ND◆	.72	.71	.65	—	—
							14-TSSOP	MCP6004-I/ST-ND◆	.72	.71	.65	—	—
1	1,000kHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6021-I/P-ND◆	1.38	.88	.80	—	—
							8-SOIC	MCP6021-I/SN-ND◆	1.38	.88	.80	—	—
							8-TSSOP	MCP6021-I/ST-ND◆	1.43	.88	.80	—	—
2	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6022-I/P-ND◆	1.78	1.13	1.02	—	—
							8-SOIC	MCP6022-I/SN-ND◆	1.78	1.13	1.02	—	—
							8-TSSOP	MCP6022-I/ST-ND◆	1.85	1.13	1.02	—	—
1	10MHz	1,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6023-I/P-ND◆	1.45	.92	.83	—	—
							8-SOIC	MCP6023-I/SN-ND◆	1.45	.92	.83	—	—
							8-TSSOP	MCP6023-I/ST-ND	1.50	.92	.83	—	—
4	10MHz	10,000	1.35	0.5	2.5 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6024-I/P-ND◆	2.60	1.65	1.50	—	—
							14-SOIC	MCP6024-I/SL-ND◆	2.60	1.65	1.50	—	—
							14-TSSOP	MCP6024-I/ST-ND◆	2.70	1.65	1.50	—	—
1	10kHz	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6031-E/MS-ND◆ ***NEW!***	1.00	.62	.56	—	—
							8-SOIC	MCP6031-E/SN-ND◆	1.00	.62	.56	—	—
2	10kHz	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6032-E/MS-ND◆ ***NEW!***	1.33	.83	.75	—	—
							8-SOIC	MCP6032-E/SN-ND◆	1.33	.83	.75	—	—
1	10kHz	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6033-E/MS-ND◆ ***NEW!***	1.03	.64	.58	—	—
							8-SOIC	MCP6033-E/SN-ND◆ ***NEW!***	1.03	.64	.58	—	—
4	10kHz	0.9	.00135	0.15	1.8 ~ 5.5	-40°C ~ 125°C	14-SOIC	MCP6034-E/SL-ND◆	2.38	1.47	1.33	—	—
							14-TSSOP	MCP6034-E/ST-ND◆ ***NEW!***	2.38	1.47	1.33	—	—
1	14kHz	0.6	.001	3	1.4 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP6041-I/MS-ND◆	.85	.52	.47	—	—
							8-DIP	MCP6041-I/P-ND◆	.83	.52	.47	—	—
							8-SOIC	MCP6041-I/SN-ND◆	.83	.52	.47	—	—
							SOT-23-5	MCP6041T-I/OTCT-ND◆†	.75	.60	.53	3,000	440.00/M
							8-SOIC	MCP6041T-I/SNCT-ND†	.83	.66	.58	3,300	470.00/M
2	14kHz	0.6	.001	3	1.4 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP6042-I/MS-ND◆	1.13	.69	.63	—	—
							8-DIP	MCP6042-I/P-ND◆	1.10	.69	.63	—	—
							8-SOIC	MCP6042-I/SN-ND◆	1.10	.69	.63	—	—
1	14kHz	0.6	.001	3	1.4 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP6043-I/MS-ND	.90	.54	.49	—	—
							8-DIP	MCP6043-I/P-ND◆	.85	.54	.49	—	—
							8-SOIC	MCP6043-I/SN-ND◆	.85	.54	.49	—	—
4	14kHz	0.6	.001	3	1.4 ~ 5.5	-40°C ~ 85°C	14-DIP	MCP6044-I/P-ND◆	1.93	1.21	1.10	—	—
							14-SOIC	MCP6044-I/SL-ND◆	1.93	1.21	1.10	—	—
							14-TSSOP	MCP6044-I/ST-ND◆	1.98	1.21	1.10	—	—
							14-SOIC	MCP6044T-I/SLCT-ND◆†	1.93	1.54	1.35	2,600	1100.00/M
							14-TSSOP	MCP6044T-I/STCT-ND◆†	1.98	1.58	1.39	2,500	1100.01/M
1	300kHz	20	.03	7	1.8 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6231-E/MS-ND	.45	.28	.25	—	—
							8-SOIC	MCP6231-E/SN-ND◆	.43	.28	.25	—	—
							SOT-23-5	MCP6231RT-E/OTCT-ND◆†	.45	.40	.36	3,000	230.00/M
							SC-70-5	MCP6231UT-E/LTCT-ND◆†	.48	.43	.39	3,000	250.00/M
							SOT-23-5	MCP6231UT-E/OTCT-ND◆†	.45	.40	.36	3,000	230.00/M
4	300kHz	20	.03	5	1.8 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6234-E/P-ND◆	.85	.53	.48	—	—
							14-SOIC	MCP6234-E/SL-ND◆	.85	.53	.48	—	—
4	550kHz	50	.07	5	1.8 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6244-E/P-ND◆	.85	.53	.48	—	—
							14-SOIC	MCP6244-E/SL-ND◆	.85	.53	.48	—	—
1	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6271-E/MS-ND	.75	.47	.42	—	—
							8-DIP	MCP6271-E/P-ND◆	.73	.47	.42	—	—
							8-SOIC	MCP6271-E/SN-ND	.73	.47	.42	—	—
							SOT-23-5	MCP6271RT-E/OTCT-ND◆†	.67	.60	.54	3,000	350.00/M
							SOT-23-5	MCP6271T-E/OTCT-ND◆†	.67	.60	.54	3,000	350.00/M
2	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6272-E/P-ND◆	.98	.62	.56	—	—
							8-MSOP	MCP6272-E/MS-ND◆	1.00	.62	.56	—	—
							8-SOIC	MCP6272-E/SN-ND◆	.98	.62	.56	—	—
1	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	SOT-23-6	MCP6273T-E/CHCT-ND◆†	.70	.63	.57	3,000	370.00/M
							8-MSOP	MCP6273-E/MS-ND◆	.80	.49	.44	—	—
							8-DIP	MCP6273-E/P-ND	.78	.49	.44	—	—
							8-SOIC	MCP6273-E/SN-ND	.78	.49	.44	—	—
4	2MHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6274-E/P-ND	1.78	1.12	1.02	—	—
							14-SOIC	MCP6274-E/SL-ND◆	1.78	1.12	1.02	—	—
							14-TSSOP	MCP6274-E/ST-ND◆	1.85	1.12	1.02	—	—
2	2,000kHz	170	.24	3	2.0 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6275-E/MS-ND	1.00	.62	.56	—	—
							8-DIP	MCP6275-E/P-ND	.98	.62	.56	—	—
							8-SOIC	MCP6275-E/SN-ND	.98	.62	.56	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

No. per Package	GBWP	Iq Typical (µA)	Iq Max. (mA)	Vos Max. (mV)	Operating Voltage Range (V)	Temperature Range	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	25	100	Qty.	Pricing
1	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6281-E/MS-ND	.90	.55	.50	—	—
							8-DIP	MCP6281-E/P-ND	.88	.55	.50	—	—
							8-SOIC	MCP6281-E/SN-ND	.88	.55	.50	—	—
							SOT-23-5	MCP6281RT-E/OTCT-ND†	.78	.70	.63	3,000	410.00/M
							SOT-23-5	MCP6281T-E/OTCT-ND◆†	.78	.70	.63	3,000	410.00/M
2	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6282-E/MS-ND◆	1.23	.74	.68	—	—
							8-DIP	MCP6282-E/P-ND	1.18	.74	.67	—	—
							8-SOIC	MCP6282-E/SN-ND◆	1.18	.74	.67	—	—
1	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6283-E/MS-ND	.98	.59	.54	—	—
							8-DIP	MCP6283-E/P-ND	.93	.59	.53	—	—
							8-SOIC	MCP6283-E/SN-ND	.93	.59	.53	—	
							SOT-23-6	MCP6283T-E/CHCT-ND◆†	.81	.73	.66	3,000	420.00/M
4	5MHz	445	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6284-E/P-ND	2.03	1.29	1.17	—	—
							14-SOIC	MCP6284-E/SL-ND◆	2.03	1.29	1.17	—	—
							14-TSSOP	MCP6284-E/ST-ND◆	2.13	1.29	1.18	—	—
2	5,000kHz	450	.57	3	2.2 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6285-E/MS-ND	1.23	.74	.68	—	—
							8-DIP	MCP6285-E/P-ND	1.18	.74	.67	—	—
1	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6291-E/P-ND◆	.95	.61	.55	—	—
							8-SOIC	MCP6291-E/SN-ND	.95	.61	.55	—	—
							8-MSOP	MCP6291-E/MS-ND	1.00	.62	.56	—	—
							SOT-23-5	MCP6291RT-E/OTCT-ND◆†	.90	.80	.72	3,000	460.00/M
							SOT-23-5	MCP6291T-E/OTCT-ND◆†	.90	.80	.72	3,000	460.00/M
2	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-MSOP	MCP6292-E/MS-ND	1.33	.81	.73	—	—
							8-DIP	MCP6292-E/P-ND	1.28	.81	.74	—	—
							8-SOIC	MCP6292-E/SN-ND	1.28	.81	.74	—	—
1	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6293-E/P-ND	1.03	.64	.59	—	—
							8-MSOP	MCP6293-E/MS-ND	1.05	.64	.58	—	—
							8-SOIC	MCP6293-E/SN-ND	1.03	.64	.59	—	—
							SOT-23-6	MCP6293T-E/CHCT-ND◆†	.95	.85	.77	3,000	480.00/M
4	10MHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	14-DIP	MCP6294-E/P-ND	2.25	1.42	1.29	—	—
							14-SOIC	MCP6294-E/SL-ND◆	2.25	1.42	1.29	—	—
							14-TSSOP	MCP6294-E/ST-ND◆	2.33	1.42	1.29	—	—
2	10,000kHz	1,000	1.3	3	2.4 ~ 5.5	-40°C ~ 125°C	8-DIP	MCP6295-E/P-ND	1.28	.81	.74	—	—
							8-SOIC	MCP6295-E/SN-ND	1.28	.81	.74	—	—
1	12MHz	1mA	1.3	.275	2.5 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP6S21-I/MS-ND◆	1.50	.92	.84	—	—
1	2,000kHz	2,000	3.5	0.05	4.5 ~ 16	0°C ~ 70°C	8-DIP	TC7650CPA-ND◆	2.98	2.84	2.58	—	—
							14-DIP	TC7650CPD-ND◆	3.25	3.10	2.82	—	—
1	400kHz	1,000	3	0.05	5 ~ 16	0°C ~ 70°C	8-DIP	TC7652CPA-ND◆	4.03	3.85	3.50	—	—
2	1,500kHz	650	1.1	0.15	6.5 ~ 16	0°C ~ 70°C	8-DIP	TC913BCPA-ND◆	4.28	4.09	3.72	—	—
2	90kHz	6	0	1.5	1.8 ~ 5.5	-40°C ~ 85°C	8-SOIC	TC1029EOA-ND◆	2.20	1.35	1.22	—	—
							8-MSOP	TC1029EUA-ND◆	2.43	1.49	1.35	—	—
							8-DIP	TC1029EPA-ND◆	2.20	1.35	1.22	—	—
1	90kHz	6	0	1.5	1.8 ~ 5.5	-40°C ~ 85°C	SOT-23A-5	TC1034ECTTRCT-ND◆†	.74	.65	.58	3,000	450.00/M

Programmable Gain Amplifiers

Switching Channels	-3dB BW (MHz)	Iq Typical (mA)	Vos (µV)	Operating Voltage Range (V)	Temperature Range	Interface	Gain Steps	Noise	VREF	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
												1	25	100	Qty.	Pricing
2	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	8-MSOP	MCP6G02-E/MS-ND◆ ***NEW!***	.83	.50	.46	—	—
										8-SOIC	MCP6G02-E/SN-ND◆ ***NEW!***	.83	.50	.46	—	—
4	0.9	.11	4,500	1.8 ~ 5.5	-40°C ~ 125°C	SPI™	3	38	No	14-SOIC	MCP6G04-E/SL-ND◆ ***NEW!***	1.33	.81	.74	—	—
										14-TSSOP	MCP6G04-E/ST-ND◆ ***NEW!***	1.33	.81	.74	—	—
1	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	8-DIP	MCP6S21-I/P-ND◆	1.60	.98	.89	—	—
										8-SOIC	MCP6S21-I/SN-ND◆	1.50	.92	.84	—	—
2	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	8-MSOP	MCP6S22-I/MS-ND◆	1.73	1.06	.96	—	—
										8-DIP	MCP6S22-I/P-ND◆	1.88	1.15	1.05	—	—
										8-SOIC	MCP6S22-I/SN-ND	1.73	1.06	.96	—	—
6	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	14-DIP	MCP6S26-I/P-ND◆	2.90	1.77	1.61	—	—
										14-SOIC	MCP6S26-I/SL-ND◆	2.75	1.68	1.53	—	—
										14-TSSOP	MCP6S26-I/ST-ND◆	2.75	1.68	1.53	—	—
8	2 ~ 12	1.1	275	2.5 ~ 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	16-DIP	MCP6S28-I/P-ND◆	3.33	2.03	1.85	—	—
										16-SOIC	MCP6S28-I/SL-ND◆	3.05	1.86	1.69	—	—
1	1 ~ 18	1	4,000	2.5 ~ 5.5	-40°C ~ 125°C	SPI™	8	10	No	8-MSOP	MCP6S91-E/MS-ND◆	1.15	.71	.65	—	—
										8-DIP	MCP6S91-E/P-ND◆	1.25	.76	.69	—	—
										8-SOIC	MCP6S91-E/SN-ND◆	1.15	.71	.65	—	—
2	1 ~ 18	1	4,000	2.5 ~ 5.5	-40°C ~ 125°C	SPI™	8	10	No	8-MSOP	MCP6S92-E/MS-ND◆	1.38	.84	.76	—	—
										8-DIP	MCP6S92-E/P-ND◆	1.48	.91	.82	—	—
										8-SOIC	MCP6S92-E/SN-ND◆	1.38	.84	.76	—	—
2	1 ~ 18	1	4,000	2.5 ~ 5.5	-40°C ~ 125°C	SPI™	8	10	No	10-MSOP	MCP6S93-E/UN-ND◆	1.73	1.06	.96	—	—
										10-MSOP	MCP6S93T-E/UNCT-ND◆†	1.93	1.73	1.56	2,500	960.00/M
PICtail™ Daughter Board Board for MCP6SX2											MCP6SX2DM-PCTLPD-ND	25.00	—	—	—	—
Evaluation Board for MCP6S2X											MCP6S2XEV-ND	30.00	—	—	—	—
Demo Board for MCP6S22											MCP6S22DM-PICTL-ND	40.00	—	—	—	—
Board Amplifier Evaluation 1 MCP6XXX											MCP6XXXEV-AMP1-ND◆	30.00	—	—	—	—
Board Amplifier Evaluation 2 MCP6XXX											MCP6XXXEV-AMP2-ND◆	30.00	—	—	—	—
Board Amplifier Evaluation 3 MCP6XXX											MCP6XXXEV-AMP3-ND◆	30.00	—	—	—	—
Board Amplifier Evaluation 4 MCP6XXX											MCP6XXXEV-AMP4-ND◆ ***NEW!***	30.00	—	—	—	—

Comparators

No. per Package	Typical Propagation Delay (µA)	Iq Typical (µA)	Vos Max. (mV)	Operating Voltage Range (V)	Temperature Range	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
								1	25	100	Qty.	Pricing
1	4	1	5	1.6 ~ 5.5	-40°C ~ 85°C	SOT-23-5	MCP6541UT-E/OTCT-ND◆†	.59	.53	.48	3,000	310.00/M
1	4	1	5	1.8 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP6546-I/MS-ND	.63	.38	.34	—	—
						8-SOIC	MCP6546-I/SN-ND	.60	.38	.34	—	—
						8-MSOP	MCP6548-I/MS-ND	.65	.40	.36	—	—
						8-SOIC	MCP6548-I/SN-ND	.63	.40	.36	—	—
4	4	1	5	1.8 ~ 5.5	-40°C ~ 85°C	14-DIP	MCP6549-I/P-ND	1.60	1.01	.92	—	—
						14-SOIC	MCP6549-I/SL-ND◆	1.60	1.01	.92	—	—
						14-TSSOP	MCP6549-I/ST-ND◆	1.65	1.01	.92	—	—
Kit Demo Board Active Filter							MCP6XXXDM-FLTR-ND	65.00	—	—	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

MICROCHIP Thermal Management

Temperature Sensors

Typical Accuracy (°)	Temperature Range	Vcc Range (V)	Maximum Supply Current (mA)	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Qty.	Pricing
Logic Output										
±1	-40°C ~ 85°C	4.5 ~ 18	400	8-DIP	TC620CCPA-ND◆	1.63	1.00	.91	—	—
				8-SOIC	TC621CCOA-ND◆	1.55	.95	.86	—	—
±1	-40°C ~ 125°C	4.5 ~ 18	600	8-DIP	TC622EPA-ND◆	1.53	.93	.85	—	—
				TO-220	TC622VAT-ND◆	2.40	1.46	1.33	—	—
				8-SOIC	TC622VOA-ND◆	1.73	1.06	.96	—	—
±0.5	-55°C ~ 125°C	2.7 ~ 5.5	40	SOT-23A-5	TC6502P045VCCT-ND†	1.09	.98	.88	3,000	550.00/M
					TC6502P055VCCT-ND◆†	1.09	.98	.88	3,000	550.00/M
					TC6502P065VCCT-ND◆†	1.09	.98	.88	3,000	550.00/M
					TC6502P075VCCT-ND†	1.09	.98	.88	3,000	550.00/M
					TC6502P085VCCT-ND†	1.09	.98	.88	3,000	550.00/M
					TC6502P095VCCT-ND◆†	1.09	.98	.88	3,000	550.00/M
					TC6502P105VCCT-ND†	1.09	.98	.88	3,000	550.00/M
					TC6502P115VCCT-ND◆†	1.09	.98	.88	3,000	550.00/M
					TC6501P120VCT-ND◆†	1.23	1.10	.99	—	—
Serial Output — RoHS Compliant										
±1	-20°C ~ 125°C	3.0 ~ 3.6	500	8-TSSOP	MCP98242-BE/ST-ND	1.90	1.16	1.06	—	—
±0.5	-40°C ~ 125°C	2.7 ~ 5.5	350	SOT-23A-5	TC74A0-5.0VCTCT-ND†	1.20	.96	.84	3,000	660.00/M
					TC74A5-3.3VCTCT-ND†	1.20	.96	.84	3,000	660.00/M
					TC74A5-5.0VCTCT-ND†	1.20	.96	.84	3,000	660.00/M
±0.5	-55°C ~ 125°C	2.7 ~ 5.5	400	SOT-23-5	TC77-3.3MCTTRCT-ND†	1.35	1.08	.95	3,000	750.00/M
				8-SOIC	TC77-3.3MOA-ND	1.25	.76	.69	—	—
				SOT-23-5	TC77-5.0MCTTRCT-ND†	1.35	1.08	.95	3,000	750.00/M
				8-SOIC	TC77-5.0MOA-ND	1.25	.76	.69	—	—
±0.5	-40°C ~ 125°C	2.7 ~ 5.5	500	8-SOIC	TCN75AVOA-ND	.93	.58	.53	—	—
				8-MSOP	TCN75AVUA-ND	.93	.58	.53	—	—
±0.5	-55°C ~ 125°C	2.7 ~ 5.5	1,000	8-SOIC	TCN75-3.3MOA-ND	1.58	1.00	.91	—	—
				8-MSOP	TCN75-3.3MUA-ND	1.65	1.04	.95	—	—
				8-SOIC	TCN75-5.0MOA-ND	1.58	1.00	.91	—	—
				8-MSOP	TCN75-5.0MUA-ND	1.65	1.04	.95	—	—
Voltage Output										
±0.5	-40°C ~ 125°C	2.7 ~ 4.4	60	SOT-23B	TC1046VNBTRCT-ND◆†	.78	.62	.55	3,000	450.00/M
		2.7 ~ 5.5			TC1047AVNBCT-ND◆†	.83	.66	.58	3,000	470.00/M
±0.5	-40°C ~ 125°C	2.3 ~ 5.5	12	TO-92	MCP9700-E/TO-ND◆	.33	.21	.19	—	—
				TO-92	MCP9700A-E/TO-ND◆	.43	.26	.24	—	—
				SC-70-5	MCP9700T-E/LTCT-ND◆†	.36	.33	.30	3,000	190.00/M
				SOT-23-3	MCP9700T-E/TTCT-ND◆†	.36	.33	.30	3,000	190.00/M
±0.5	-10°C ~ 125°C	3.1 ~ 5.5	12	TO-92	MCP9701-E/TO-ND◆	.33	.21	.19	—	—
	-40°C ~ 125°C			TO-92	MCP9701A-E/TO-ND◆	.43	.26	.24	—	—
	-40°C ~ 125°C			SC-70-5	MCP9701AT-E/LTCT-ND◆†	.48	.43	.39	3,000	240.00/M
	-10°C ~ 125°C			SC-70-5	MCP9701T-E/LTCT-ND◆†	.36	.33	.30	3,000	190.00/M
±0.5	-55°C ~ 125°C	2.7 ~ 5.5	400	SOT-23-5	MCP9800A0T-M/OTCT-ND◆	1.76	1.58	1.42	—	—
				SOT-23-5	MCP9800A5T-MOTGCT-ND◆†	1.76	1.58	1.42	3,000	900.00/M
				8-MSOP	MCP9801-M/MS-ND◆	1.48	.93	.85	—	—
				8-SOIC	MCP9801-M/SN-ND◆	1.48	.93	.85	—	—
±0.5	-55°C ~ 125°C	2.7 ~ 5.5	400	SOT-23-5	MCP9802A0T-M/OTCT-ND◆†	1.85	1.65	1.49	3,000	960.00/M
					MCP9802A5T-M/OTCT-ND◆†	1.85	1.65	1.49	3,000	960.00/M
					MCP9802A5T-MOTGCT-ND◆†	1.85	1.65	1.49	—	—
±0.5	-55°C ~ 125°C	2.7 ~ 5.5	400	8-MSOP	MCP9803-M/MS-ND◆	1.58	.99	.90	—	—
				8-SOIC	MCP9803-M/SN-ND◆	1.58	.99	.90	—	—
±0.5	-20°C ~ 125°C	3.0 ~ 3.6	500	8-TSSOP	MCP9805-BE/ST-ND◆	1.38	.87	.80	—	—
Demo Board for PICtail™ MCP2030					MCP2030DM-TPR-ND	160.00	—	—	—	—
Demo Board 2 for MCP9800					MCP9800DM-DL2-ND	30.00	—	—	—	—
Demo Board for PICtail™ MCP9800					MCP9800DM-PCTL-ND	25.00	—	—	—	—
Mixed Signal PICtail™ Demo Board					MXSIGDM-ND	65.00	—	—	—	—
Temperature-to-Voltage Converter Demo Board for TC1047A					TC1047ADM-PICTL-ND◆	10.00	—	—	—	—
Digital Temperature Sensor PICtail™ Demo Board					TC72DM-PICTL-ND	10.00	—	—	—	—
Demo Board PICtail™ TC77					TC77DM-PICTL-ND◆	10.00	—	—	—	—

Fan Controllers

Typical Accuracy (°)	Temperature Range	Vcc Range (V)	Maximum Supply Current	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Qty.	Pricing
Depends on External Thermistor	-40°C ~ 85°C	3.0 ~ 5.5	1.0mA	8-SOIC	TC642COA-ND◆	1.83	1.15	1.04	—	—
				8-DIP	TC642CPA-ND◆	1.88	1.19	1.08	—	—
				8-DIP	TC642VPA-ND	2.05	1.29	1.18	—	—
				8-SOIC	TC646VOA-ND◆	1.95	1.23	1.12	—	—
				8-DIP	TC646VPA-ND◆	2.05	1.29	1.18	—	—
				8-SOIC	TC648VOA713CT-ND◆†	1.63	1.30	1.14	3,300	930.00/M
				8-DIP	TC648VPA-ND◆	1.73	1.09	.99	—	—
				8-MSOP	TC648VUA-ND	1.55	.98	.89	—	—
±1	-40°C ~ 125°C	2.8 ~ 5.5	.040mA	8-MSOP	TC652AGVUA-ND◆	2.38	1.50	1.37	—	—

Interface — Serial Peripherals

Description	Operating Voltage (V)	Interface	Maximum Bus Frequency (kBits/s)	Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
8-bit I/O Port Expander	1.8 ~ 5.5	I²C™	1700	-40°C ~ 125°C	20-QFN	MCP23008-E/ML-ND◆	1.45	.91	.83
					18-DIP	MCP23008-E/P-ND◆	1.35	.86	.78
					18-SOIC	MCP23008-E/SO-ND◆	1.35	.86	.78
					20-SSOP	MCP23008-E/SS-ND◆	1.45	.91	.83
8-bit I/O Port Expander	1.8 ~ 5.5	SPI™	10,000	-40°C ~ 125°C	20-QFN	MCP23S08-E/ML-ND◆	1.50	.95	.87
					18-DIP	MCP23S08-E/P-ND◆	1.43	.90	.82
					20-SSOP	MCP23S08-E/SS-ND◆	1.50	.95	.87
16-bit I/O Port Expander	2.0 ~ 5.5	I²C™	400	-40°C ~ 85°C	28-QFN	MCP23016-I/ML-ND◆	2.23	1.41	1.28
					28-SOIC	MCP23016-I/SO-ND◆	2.08	1.32	1.20
					28-DIP	MCP23016-I/SP-ND◆	2.08	1.32	1.20
					28-SSOP	MCP23016-I/SS-ND◆	2.23	1.41	1.28

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

(Continued)

MICROCHIP Interface — Serial Peripherals *(Cont.)*

Description	Operating Voltage (V)	Interface	Maximum Bus Frequency (kBits/s)	Temperature Range	Package	Digi-Key Part No.	Price Each		
							1	25	100
16-bit I/O Port Expander	1.8 ~ 5.5	I²C™	1700	-40°C ~ 125°C	28-QFN	MCP23017-E/ML-ND◆	1.85	1.18	1.07
					28-SOIC	MCP23017-E/SO-ND◆	1.58	1.00	.90
					28-DIP	MCP23017-E/SP-ND◆	1.58	1.00	.90
					28-SSOP	MCP23017-E/SS-ND◆	1.65	1.05	.95
16-bit I/O Port Expander	1.8 ~ 5.5	SPI™	10,000	-40°C ~ 125°C	28-QFN	MCP23S17-E/ML-ND◆	1.98	1.25	1.14
					28-SOIC	MCP23S17-E/SO-ND◆	1.65	1.05	.95
					28-DIP	MCP23S17-E/SP-ND◆	1.65	1.05	.95
					28-SSOP	MCP23S17-E/SS-ND◆	1.75	1.10	1.00
Evaluation Board for MCP23X08						MCP23X08EV-ND	25.00	—	—
Evaluation Board for MCP23X17						MCP23X17EV-ND	40.00	—	—

Ethernet

MAC	PHY	TX/RX Dual Port RAM Buffer (KB)	Interrupts	LED	Operating Voltage (V)	Temperature Range	Maximum Speed MHz	Serial	Package	Digi-Key Part No.	Price Each		
											1	25	100
Yes	Yes	8	2	2	3.3	0°C ~ 70°C	25	SPI	28-QFN	ENC28J60/ML-ND	3.95	3.23	3.13
									28-SOIC	ENC28J60/SO-ND	3.30	2.90	2.81
									28-DIP	ENC28J60/SP-ND	3.70	3.11	3.01
									28-SSOP	ENC28J60/SS-ND	3.23	2.86	2.77
									28-QFN	ENC28J60-I/ML-ND	3.95	3.23	3.13
Yes	Yes	8	1	2	3.3	-40°C ~ 85°C	25	SPI	28-SOIC	ENC28J60-I/SO-ND	3.30	2.90	2.81
									28-DIP	ENC28J60-I/SP-ND	3.70	3.11	3.01

Infrared Products

Description	Operating Voltage Range (V)	Temperature Range	Maximum Baud Rate (kBaud)	Xmit/Rec Formats Supported (µS)	Package	Digi-Key Part No.	Price Each			Tape and Reel	
							1	25	100	Qty.	Pricing
Infrared Encoder/Decoder	2.7 ~ 5.5	-40°C ~ 85°C	325	1.63	14-DIP	MCP2120-I/P-ND◆	2.30	1.45	1.32	—	—
					14-SOIC	MCP2120-I/SL-ND◆	2.30	1.45	1.32	—	—
Infrared Encoder/Decoder	1.8 ~ 5.5	-40°C ~ 125°C	115.2	1.63	8-DIP	MCP2122-E/P-ND◆	1.23	.77	.70	—	—
					8-SOIC	MCP2122-E/SN-ND◆	1.23	.77	.70	—	—
					8-SOIC	MCP2122T-E/SNCT-ND◆†	1.37	1.23	1.11	3,300	700.00/M
Fixed Speed 9600 Baud IrDA® Protocol Stack Controller	2.7 ~ 5.5	-40°C ~ 85°C	9.6	1.63	18-DIP	MCP2140-I/P-ND	2.70	1.71	1.55	—	—
					18-SOIC	MCP2140-I/SO-ND◆	2.70	1.71	1.55	—	—
					20-SSOP	MCP2140-I/SS-ND◆	2.85	1.80	1.63	—	—
IrDA® Standard Protocol Stack Controller with Fixed 9600 Baud Communication Rate	2.0 ~ 5.5	-40°C ~ 85°C	9.6	1.63	18-DIP	MCP2140A-I/P-ND◆	2.53	1.54	1.40	—	—
					18-SOIC	MCP2140A-I/SO-ND◆	2.80	1.71	1.55	—	—
					20-SSOP	MCP2140A-I/SS-ND◆ ***NEW!***	2.95	1.80	1.64	—	—
IrDA® Protocol Stack handler plus bit encoding/decodeing for DTE applications	3.0 ~ 5.5	-40°C ~ 85°C	115.2	1.63	18-DIP	MCP2150-I/P-ND◆	5.48	3.35	3.05	—	—
					18-SOIC	MCP2150-I/SO-ND◆	5.48	3.35	3.05	—	—
					20-SSOP	MCP2150-I/SS-ND	5.48	3.35	3.05	—	—
IrDA® Protocol Stack handler plus bit encoding/decoding for DCE applications	3.0 ~ 5.5	-40°C ~ 85°C	115.2	1.63	18-DIP	MCP2155-I/P-ND◆	5.48	3.35	3.05	—	—
					18-SOIC	MCP2155-I/SO-ND◆	5.48	3.35	3.05	—	—
					20-SSOP	MCP2155-I/SS-ND◆	5.48	3.35	3.05	—	—
Demo Board for MCP2140						MCP2140DM-TMPSNS-ND◆	45.00	—	—	—	—
Demo Board for MCP215X						MCP215XDM-ND	60.00	—	—	—	—
Demo Board for MCP215X/40						MCP215X/40EV-DB-ND	55.00	—	—	—	—

LCD Drivers

Drives Number of Segments	Control Lines Required	Number of Characters	Cascadable	On-chip Oscillator	CMOS and TTL Compatible inputs	Electrostatic Discharge Protection on all Pins	Package	Digi-Key Part No.	Price Each		
									1	25	100
32	3	16	Yes	Yes	Yes	Yes	44-PLCC	AY0438/L-ND	5.98	4.33	3.93
							40-DIP	AY0438/P-ND	4.38	3.06	2.78
							44-PLCC	AY0438-I/L-ND	6.28	4.55	4.13
							40-DIP	AY0438-I/P-ND	4.58	3.21	2.92

LIN Transceivers

Description	Vreg Output Voltage (V)	Vreg Output Current (mA)	Vcc Range (V)	Maximum Baud Rate (KBaud)	LIN Specification Supported	Package	Digi-Key Part No.	Price Each		
								1	25	100
LIN Transceiver with integrated Vreg	4.75 ~ 5.25	50	6.0 ~ 18	20	Revision 1.2	8-DIP	MCP201-I/P-ND	2.03	1.28	1.17
						8-SOIC	MCP201-I/SN-ND	2.03	1.28	1.17

Controller Area Network (CAN)

Version Supported	Operating Voltage (V)	Temperature Range	Tx Buffers	Rx Buffers	Filters	Masks	Interrupt Output	Package	Digi-Key Part No.	Price Each		
										1	25	100
2.0B Active	2.7 ~ 5.5	-40°C ~ 125°C	3	2	2	1	—	14-DIP	MCP25020-I/P-ND◆	3.35	2.12	1.93
								14-SOIC	MCP25020-I/SL-ND◆	3.35	2.12	1.93
2.0B Active	2.7 ~ 5.5	-40°C ~ 85°C	3	2	2	1	—	14-SOIC	MCP25025-I/SL-ND◆	3.83	2.41	2.19
2.0B Active	2.7 ~ 5.5	-40°C ~ 125°C	3	2	2	1	—	14-DIP	MCP25050-I/P-ND◆	4.45	2.82	2.57
								14-SOIC	MCP25050-I/SL-ND◆	4.45	2.82	2.57
2.0B Active	2.7 ~ 5.5	-40°C ~ 85°C	3	2	2	1	—	14-DIP	MCP25055-I/P-ND◆	5.23	3.31	3.01
								14-SOIC	MCP25055-I/SL-ND◆	5.23	3.31	3.01
2.0B Active	2.7 ~ 5.5	-40°C ~ 125°C	3	2	6	2	1	18-DIP	MCP2510-E/P-ND	5.20	3.29	2.99
								18-SOIC	MCP2510-E/SO-ND◆	5.20	3.29	2.99
								18-DIP	MCP2510-I/P-ND◆	4.10	2.59	2.35
								18-SOIC	MCP2510-I/SO-ND◆	4.10	2.59	2.35
								20-TSSOP	MCP2510-I/ST-ND◆	4.73	2.99	2.71
2.0B Active	2.7 ~ 5.5	-40°C ~ 125°C	3	2	6	2	1	18-DIP	MCP2515-I/P-ND◆	2.98	1.88	1.71
								18-SOIC	MCP2515-I/SO-ND◆	2.98	1.88	1.71
								20-TSSOP	MCP2515-I/ST-ND◆	3.28	2.07	1.89
—	4.5 ~ 5.5	-40°C ~ 125°C	—	—	—	—	—	8-DIP	MCP2551-I/P-ND◆	1.45	.91	.83
								8-SOIC	MCP2551-I/SN-ND◆	1.45	.91	.83
MCP250XX CAN I/O Expander Development Kit									DV250501-ND◆	165.00	—	—
MCP2510CAN Developer's Kit									DV251001-ND	239.99	—	—
Demo Board for MCP2515									MCP2515DM-PCTL-ND	40.00	—	—

◆ ***RoHS Compliant*** * For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape

LUMINARY MICRO ARM® Cortex™ -M3 Microcontrollers

Flash (KB)	SRAM (KB)	GPIOs†	Timers‡	ADC		UARTs	SSI	I^2C	Analog Comparators	PWM§		QEI	Package	Speed (Clock Frequency in MHz)	Digi-Key Part No.	Price Each			Luminary Micro Part No.
				Sample Per Second	No. of 10-Bit Channels					PWM Pins	CCP Pins					1	25	100	
8	2	0 ~ 18	2	—	—	1	1	1	1	—	2	—	28-SOIC	20	726-1001-ND	2.75	2.29	2.11	LM3S102-IRN20
		2 ~ 18	2	—	—	1	1	—	2	—	1	—	28-SOIC	20	726-1000-ND	2.18	1.82	1.68	LM3S101-IRN20
16	2	12 ~ 33	2	250K	3	1	1	—	2	2	2	—	48-LQFP	20	726-1002-ND	4.64	3.88	3.58	LM3S301-IQN20
	4	3 ~ 30	3	250K	6	1	1	—	1	6	6	—	48-LQFP	25	726-1006-ND	4.64	3.88	3.58	LM3S317-IQN25
		3 ~ 32	3	250K	4	2	1	1	1	4	6	—	48-LQFP	25	726-1005-ND	4.64	3.88	3.58	LM3S316-IQN25
		3 ~ 36	3	—	—	2	1	—	3	6	6	—	48-LQFP	25	726-1003-ND	4.64	3.88	3.58	LM3S310-IQN25
		5 ~ 28	3	500K	8	2	1	1	1	—	6	—	48-LQFP	25	726-1089-ND	3.82	3.19	2.94	LM3S308-IQN25
		7 ~ 28	3	500K	8	2	1	1	—	—	6	—	48-LQFP	25	726-1007-ND	4.95	4.13	3.81	LM3S328-IQN25
		7 ~ 32	3	250K	4	2	1	—	1	2	6	—	48-LQFP	25	726-1004-ND	6.67	5.57	5.14	LM3S315-IQN25
		8 ~ 36	3	—	—	2	1	1	3	—	6	—	48-LQFP	25	726-1088-ND	3.82	3.19	2.94	LM3S300-IQN25
32	8	0 ~ 34	3	500K	2	2	1	1	3	3	6	—	48-LQFP	50	726-1013-ND	4.64	3.88	3.58	LM3S615-IQN50
		0 ~ 36	3	—	—	2	1	1	3	6	6	1	48-LQFP	50	726-1008-ND	4.64	3.88	3.58	LM3S601-IQN50
		1 ~ 30	3	500K	6	2	1	—	1	6	4	1	48-LQFP	50	726-1015-ND	4.73	3.95	3.65	LM3S618-IQN50
		1 ~ 30	3	500K	6	2	1	—	1	6	6	—	48-LQFP	50	726-1014-ND	4.64	3.88	3.58	LM3S617-IQN50
		3 ~ 32	3	500K	4	2	1	1	1	4	6	—	48-LQFP	50	726-1012-ND	4.64	3.88	3.58	LM3S613-IQN50
		4 ~ 32	3	500K	4	2	1	1	—	6	6	—	48-LQFP	50	726-1010-ND	4.64	3.88	3.58	LM3S611-IQN50
		5 ~ 28	3	500K	8	2	1	1	1	—	6	—	48-LQFP	50	726-1091-ND	3.92	3.28	3.02	LM3S608-IQN50
		6 ~ 34	3	500K	2	2	1	1	—	6	6	—	48-LQFP	50	726-1009-ND	8.55	7.12	6.57	LM3S610-IQN50
		7 ~ 34	3	500K	2	2	1	1	1	2	6	—	48-LQFP	50	726-1011-ND	8.29	6.91	6.37	LM3S612-IQN50
		8 ~ 36	3	—	—	2	1	1	3	—	6	—	48-LQFP	50	726-1090-ND	3.82	3.19	2.94	LM3S600-IQN50
		9 ~ 28	3	1M	8	2	1	1	—	—	4	—	48-LQFP	50	726-1016-ND	4.58	3.82	3.53	LM3S628-IQN50
64	8	0 ~ 30	3	1M	6	2	1	—	1	6	4	1	48-LQFP	50	726-1022-ND	5.56	4.64	4.28	LM3S818-IQN50
		0 ~ 30	3	1M	6	2	1	—	1	6	6	—	48-LQFP	50	726-1021-ND	5.45	4.55	4.20	LM3S817-IQN50
		0 ~ 34	3	500K	2	2	1	1	3	6	6	—	48-LQFP	50	726-1020-ND	5.45	4.55	4.20	LM3S815-IQN50
		0 ~ 36	3	—	—	2	1	1	3	6	6	1	48-LQFP	50	726-1017-ND	5.45	4.55	4.20	LM3S801-IQN50
		4 ~ 32	3	500K	4	2	1	1	1	6	6	—	48-LQFP	50	726-1018-ND	5.45	4.55	4.20	LM3S811-IQN50
		5 ~ 28	3	500K	8	2	1	1	1	—	6	—	48-LQFP	50	726-1093-ND	4.53	3.79	3.49	LM3S808-IQN50
		7 ~ 34	3	250K	2	2	1	1	1	2	6	—	48-LQFP	50	726-1019-ND	9.95	8.29	7.65	LM3S812-IQN50
		8 ~ 36	3	—	—	2	1	1	3	—	6	—	48-LQFP	50	726-1092-ND	4.43	3.69	3.41	LM3S800-IQN50
		9 ~ 28	3	1M	8	2	1	1	—	—	6	—	48-LQFP	50	726-1023-ND	5.19	4.33	4.00	LM3S828-IQN50
	16	4 ~ 43	4	500K	4	3	2	1	1	6	8	—	100-LQFP	50	726-1099-ND	6.54	5.46	5.04	LM3S1165-IQC50
		4 ~ 46	4	500K	2	3	2	1	3	6	6	—	100-LQPF	50	726-1098-ND	8.82	7.37	6.80	LM3S1162-IQC50
		7 ~ 52	4	—	—	3	2	1	3	6	6	1	100-LQFP	50	726-1097-ND	6.43	5.37	4.96	LM3S1150-IQC50
		8 ~ 35	3	—	—	1	1	—	3	2	4	—	100-LQFP	25	726-1071-ND	9.46	7.90	7.29	LM3S6110-IQC25
		9 ~ 44	4	250K	2	3	2	1	1	2	8	2	100-LQFP	50	726-1095-ND	6.43	5.37	4.96	LM3S1133-IQC50
		9 ~ 46	4	1M	8	3	2	2	3	—	6	—	100-LQFP	50	726-1096-ND	5.82	4.86	4.49	LM3S1138-IQC50
		10 ~ 30	3	—	—	1	1	—	1	—	4	—	100-LQFP	25	726-1070-ND	9.18	7.66	7.07	LM3S6100-IQC25
		11 ~ 40	3	—	—	1	1	1	3	2	4	—	100-LQFP	25	726-1055-ND	6.54	5.46	5.04	LM3S2110-IQC25
		20 ~ 41	3	—	—	2	1	—	2	—	2	—	100-LQFP	25	726-1094-ND	5.45	4.55	4.20	LM3S1110-IQC25
		24 ~ 56	3	250K	4	2	1	1	3	—	6	—	100-LQFP	25	726-1056-ND	6.54	5.46	5.04	LM3S2139-IQC25
	32	0 ~ 33	3	1M	6	1	1	1	—	8	1	—	64-LQPF	50	726-1178-ND ***NEW!***	9.92	8.28	7.64	LM3S2276-IQR50
96	16	29 ~ 57	4	250K	3	2	1	—	3	—	8	—	100-LQFP	50	726-1100-ND	6.43	5.37	4.96	LM3S1332-IQC50
	32	4 ~ 34	3	250K	3	2	1	1	2	2	4	—	100-LQFP	50	726-1059-ND	7.74	6.46	5.96	LM3S2432-IQC50
		12 ~ 34	3	250K	2	1	1	—	2	—	4	—	100-LQFP	25	726-1073-ND	9.72	8.12	7.49	LM3S6422-IQC25
		13 ~ 43	3	250K	3	2	1	1	2	2	4	—	100-LQFP	50	726-1074-ND	10.46	8.74	8.06	LM3S6432-IQC50
		14 ~ 43	3	250K	3	2	1	1	2	2	4	—	108-BGA	50	726-1155-ND ***NEW!***	10.46	8.74	8.06	LM3S6432-IBZ50
		14 ~ 52	3	500K	4	2	2	1	1	6	6	1	100-LQFP	50	726-1102-ND	7.74	6.46	5.96	LM3S1439-IQC50
		14 ~ 52	3	500K	4	2	2	1	1	6	6	1	108-BGA	50	726-1134-ND ***NEW!***	7.74	6.46	5.96	LM3S1439-IBZ50
		19 ~ 49	3	250K	3	2	1	1	2	2	4	—	100-LQFP	25	726-1058-ND	7.91	6.61	6.10	LM3S2412-IQC25
		21 ~ 46	3	500K	2	2	1	1	1	2	4	—	100-LQFP	50	726-1101-ND	7.74	6.46	5.96	LM3S1435-IQC50
		23 ~ 46	3	—	—	1	1	—	2	—	4	—	100-LQFP	25	726-1072-ND	9.37	7.83	7.22	LM3S6420-IQC25
		37 ~ 60	3	—	—	1	1	—	2	—	4	—	100-LQFP	25	726-1057-ND	7.74	6.46	5.96	LM3S2410-IQC25
	64	6 ~ 41	4	500K	4	2	1	1	2	6	6	—	100-LQFP	50	726-1114-ND	13.65	11.39	10.52	LM3S6537-IQC50
		7 ~ 36	4	1M	8	2	1	1	3	—	4	—	100-LQFP	50	726-1118-ND	12.56	10.48	9.68	LM3S8538-IQC50
		8 ~ 35	4	—	—	1	2	1	—	—	2	—	100-LQFP	50	726-1117-ND	12.43	10.37	9.58	LM3S8530-IQC50
		9 ~ 43	4	500K	8	3	2	2	—	—	8	1	100-LQFP	50	726-1104-ND	8.63	7.21	6.65	LM3S1538-IQC50
		10 ~ 48	4	250K	3	2	1	1	3	6	6	—	100-LQFP	50	726-1060-ND	8.63	7.21	6.65	LM3S2533-IQC50
		15 ~ 58	4	250K	2	3	2	2	3	—	8	1	100-LQFP	25	726-1103-ND	7.91	6.61	6.10	LM3S1512-IQC25
128	32	1 ~ 33	3	500K	6	2	1	2	—	—	5	—	64-LQPF	50	726-1182-ND ***NEW!***	9.53	7.95	7.34	LM3S5632-IQR50
		1 ~ 33	4	500K	8	1	1	—	—	4	2	1	64-LQPF	50	726-1179-ND ***NEW!***	7.30	6.10	5.63	LM3S2678-IQR50
		5 ~ 38	4	500K	8	2	2	2	2	—	6	—	100-LQFP	50	726-1158-ND ***NEW!***	10.46	8.74	8.06	LM3S6618-IQC50
		5 ~ 46	4	—	—	3	1	1	3	4	6	1	100-LQFP	25	726-1075-ND	11.01	9.19	8.48	LM3S6610-IQC25
		7 ~ 43	4	1M	4	3	1	1	1	6	6	1	100-LQFP	50	726-1107-ND	7.74	6.46	5.96	LM3S1637-IQC50
		9 ~ 41	4	1M	4	2	1	1	3	—	6	—	100-LQFP	50	726-1077-ND	10.68	8.92	8.23	LM3S6637-IQC50
		10 ~ 31	4	—	—	2	1	1	—	—	2	—	100-LQFP	50	726-1119-ND	10.20	8.52	7.86	LM3S8630-IQC50
		10 ~ 46	4	—	—	3	2	2	2	—	6	—	100-LQFP	50	726-1157-ND ***NEW!***	10.03	8.37	7.73	LM3S6611-IQC50
		10 ~ 46	4	—	—	3	2	2	2	—	6	—	108-BGA	50	726-1156-ND ***NEW!***	10.03	8.37	7.73	LM3S6611-IBZ50
		11 ~ 41	4	1M	4	2	1	1	3	—	6	—	108-BGA	50	726-1159-ND ***NEW!***	10.68	8.92	8.23	LM3S6637-IBZ50
		11 ~ 52	3	—	—	2	2	1	3	6	4	1	100-LQFP	25	726-1105-ND	7.74	6.46	5.96	LM3S1620-IQC25
		12 ~ 52	4	—	—	1	1	1	3	4	6	1	100-LQFP	25	726-1061-ND	9.18	7.66	7.07	LM3S2620-IQC25
		12 ~ 52	4	—	—	1	1	1	3	4	6	1	108-BGA	25	726-1145-ND ***NEW!***	9.18	7.66	7.07	LM3S2620-IBZ25
		12 ~ 56	4	500K	4	3	2	2	2	6	8	—	100-LQFP	50	726-1106-ND	7.74	6.46	5.96	LM3S1635-IQC50
		14 ~ 41	3	500K	3	2	1	1	1	—	6	—	100-LQFP	50	726-1076-ND	14.13	11.79	10.89	LM3S6633-IQC50
		15 ~ 46	4	500K	4	2	1	1	3	—	6	—	100-LQFP	50	726-1062-ND	7.74	6.46	5.96	LM3S2637-IQC50
		15 ~ 52	4	500K	8	2	2	2	2	—	8	—	100-LQFP	50	726-1144-ND ***NEW!***	7.74	6.46	5.96	LM3S2608-IQC50
		16 ~ 53	4	500K	4	3	2	1	1	4	6	—	100-LQFP	50	726-1063-ND	8.11	6.77	6.25	LM3S2651-IQC50
		17 ~ 52	4	500K	8	2	2	2	2	—	8	—	100-LQFP	50	726-1136-ND ***NEW!***	6.89	5.75	5.31	LM3S1608-IQC50
		21 ~ 60	4	—	—	3	2	2	2	—	8	—	100-LQFP	50	726-1143-ND ***NEW!***	7.74	6.46	5.96	LM3S2601-IQC50
		23 ~ 60	4	—	—	3	2	2	2	—	8	—	100-LQFP	50	726-1135-ND ***NEW!***	6.89	5.75	5.31	LM3S1601-IQC50
	64	0 ~ 33	3	1M	6	1	1	1	—	8	1	—	64-LQPF	50	726-1180-ND ***NEW!***	11.12	9.28	8.57	LM3S2776-IQR50
		0 ~ 61	4	1M	8	2	2	2	2	8	5	1	100-LQPF	50	726-1183-ND ***NEW!***	12.51	10.45	9.64	LM3S5749-IQC50
		3 ~ 61	4	1M	8	2	2	2	2	8	8	1	100-LQPF	50	726-1181-ND ***NEW!***	12.19	10.17	9.39	LM3S3748-IQC50
		4 ~ 38	4	500K	8	3	2	1	1	—	6	—	100-LQFP	50	726-1122-ND	11.23	9.37	8.65	LM3S8738-IQC50
		5 ~ 35	4	500K	4	2	1	1	3	—	4	—	100-LQFP	50	726-1121-ND	18.33	15.31	14.13	LM3S8733-IQC50
		5 ~ 41	4	500K	4	2	1	1	2	6	4	1	100-LQFP	50	726-1115-ND	15.00	12.52	11.56	LM3S6753-IQC50
		11 ~ 32	4	—	—	2	1	1	—	—	2	—	100-LQFP	50	726-1120-ND	13.30	11.10	10.25	LM3S8730-IQC50
		18 ~ 56	3	500K	4	2	1	1	1	6	6	1	100-LQFP	50	726-1065-ND	9.79	8.17	7.54	LM3S2739-IQC50
		20 ~ 56	3	500K	4	2	1	1	1	6	6	1	108-BGA	50	726-1147-ND ***NEW!***	9.79	8.17	7.54	LM3S2739-IBZ50
		21 ~ 56	3	500K	4	3	2	1	1	4	6	—	100-LQFP	50	726-1108-ND	9.07	7.57	6.99	LM3S1751-IQC50
		23 ~ 46	3	—	—	1	1	—	2	—	4	—	100-LQFP	50	726-1078-ND	10.86	9.06	8.37	LM3S6730-IQC50
		23 ~ 46	3	—	—	1	1	—	2	—	4	—	108-BGA	50	726-1160-ND ***NEW!***	10.85	9.06	8.36	LM3S6730-IBZ50
		37 ~ 60	3	—	—	1	1	—	2	—	4	—	100-LQFP	50	726-1064-ND	8.72	7.28	6.72	LM3S2730-IQC50
		37 ~ 60	3	—	—	1	1	—	2	—	4	—	108-BGA	50	726-1146-ND ***NEW!***	8.72	7.28	6.72	LM3S2730-IBZ50
256	32	17 ~ 56	3	—	—	2	1	1	3	6	6	1	100-LQFP	50	726-1109-ND	9.61	8.03	7.41	LM3S1850-IQC50
	64	0 ~ 42	4	1M	4	3	1	2	2	6	4	2	100-LQFP	50	726-1081-ND	13.10	10.94	10.10	LM3S6965-IQC50
		0 ~ 42	4	1M	4	3	1	2	2	6	4	2	108-BGA	50	726-1166-ND ***NEW!***	13.10	10.94	10.10	LM3S6965-IBZ50
		1 ~ 46	4	—	—	3	2	1	3	6	6	1	100-LQFP	50	726-1116-ND	15.33	12.79	11.81	LM3S6950-IQC50
		3 ~ 38	4	1M	8	3	1	2	3	—	6	—	100-LQFP	50	726-1125-ND	14.45	12.07	11.14	LM3S8938-IQC50
		3 ~ 56	4	1M	4	3	2	2	3	6	6	2	100-LQFP	50	726-1069-ND	13.52	11.28	10.42	LM3S2965-IQC50
		3 ~ 56	4	1M	4	3	2	2	3	6	6	2	108-BGA	50	726-1154-ND ***NEW!***	13.52	11.28	10.42	LM3S2965-IBZ50
		4 ~ 38	4	1M	8	1	1	—	1	6	6	1	100-LQFP	50	726-1170-ND ***NEW!***	13.01	10.87	10.03	LM3S8971-IQC50
		4 ~ 38	4	1M	8	1	1	—	1	6	6	1	108-BGA	50	726-1169-ND ***NEW!***	13.01	10.87	10.03	LM3S8971-IBZ50

† Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used; See data sheet for details ‡ One timer available as RTC § PWM motion control functionality can be achieved through dedicated motion control hardware (using the PWM pins) or through the motion control features of the general-purpose timers (using CCP pins); See data sheet for details

(Continued)

LUMINARY MICRO ARM® Cortex™ -M3 Microcontrollers *(Cont.)*

Flash (KB)	SRAM (KB)	GPIOs†	Timers‡	ADC		UARTs	SSI	I^2C	Analog Compar-ators	PWM§		QEI	Package	Speed (Clock Frequency in MHz)	Digi-Key Part No.	Price Each			Luminary Micro Part No.
				Sample Per Second	No. of 10-Bit Channels					PWM Pins	CCP Pins					1	25	100	
256	64	5 ~ 38	4	1M	8	3	1	1	3	—	6	—	100-LQFP	50	726-1079-ND	11.88	9.92	9.16	LM3S6938-IQC50
		5 ~ 38	4	500K	8	2	2	2	2	—	6	—	100-LQFP	50	726-1164-ND ***NEW!***	11.51	9.61	8.87	LM3S6918-IQC50
		5 ~ 38	4	500K	8	2	2	2	2	—	6	—	108-BGA	50	726-1163-ND ***NEW!***	11.51	9.61	8.87	LM3S6918-IBZ50
		5 ~ 42	4	500K	4	2	1	1	1	6	2	2	100-LQFP	50	726-1126-ND	15.83	13.21	12.20	LM3S8962-IQC50
		5 ~ 42	4	500K	4	2	1	1	1	6	2	2	108-BGA	50	726-1167-ND ***NEW!***	15.83	13.21	12.20	LM3S8962-IBZ50
		5 ~ 43	3	500K	3	3	1	1	3	4	4	1	100-LQFP	50	726-1080-ND	19.07	15.92	14.70	LM3S6952-IQC50
		5 ~ 52	4	1M	8	3	2	2	3	6	4	2	100-LQFP	50	726-1113-ND	10.86	9.06	8.37	LM3S1968-IQC50
		5 ~ 52	4	1M	8	3	2	2	3	6	4	2	108-BGA	50	726-1142-ND ***NEW!***	10.86	9.06	8.37	LM3S1968-IBZ50
		6 ~ 36	4	1M	4	2	1	1	3	—	4	—	100-LQFP	50	726-1124-ND	14.24	11.88	10.97	LM3S8933-IQC50
		7 ~ 38	4	1M	8	3	1	1	3	—	6	—	108-BGA	50	726-1165-ND ***NEW!***	11.88	9.92	9.16	LM3S6938-IBZ50
		7 ~ 60	4	—	—	3	2	2	3	6	8	2	100-LQFP	50	726-1112-ND	10.44	8.72	8.05	LM3S1960-IQC50
		10 ~ 46	4	—	—	3	2	2	2	—	6	—	100-LQFP	50	726-1162-ND ***NEW!***	11.00	9.19	8.48	LM3S6911-IQC50
		10 ~ 46	4	—	—	3	2	2	2	—	6	—	108-BGA	50	726-1161-ND ***NEW!***	11.00	9.19	8.48	LM3S6911-IBZ50
		10 ~ 60	4	—	—	3	2	1	3	6	6	1	100-LQFP	50	726-1068-ND	10.70	8.94	8.25	LM3S2950-IQC50
		12 ~ 52	4	1M	8	3	2	1	3	—	8	—	100-LQFP	50	726-1067-ND	12.54	10.47	9.66	LM3S2948-IQC50
		12 ~ 52	4	1M	8	3	2	1	3	—	8	—	108-BGA	50	726-1153-ND ***NEW!***	12.54	12.07	11.14	LM3S2948-IBZ50
		13 ~ 34	4	—	—	1	1	1	—	—	2	—	100-LQFP	50	726-1123-ND	12.27	10.25	9.46	LM3S8930-IQC50
		15 ~ 52	4	500K	8	2	2	2	2	—	8	—	108-BGA	50	726-1150-ND ***NEW!***	9.94	8.30	7.66	LM3S2918-IBZ50
		15 ~ 52	4	500K	8	2	2	2	2	—	8	—	100-LQFP	50	726-1151-ND ***NEW!***	9.94	8.30	7.66	LM3S2918-IQC50
		17 ~ 46	4	—	—	2	2	1	—	—	2	—	100-LQFP	50	726-1127-ND	15.61	13.03	12.03	LM3S8970-IQC50
		17 ~ 46	4	—	—	2	2	1	—	—	2	—	108-BGA	50	726-1168-ND ***NEW!***	15.61	13.03	12.03	LM3S8970-IBZ50
		17 ~ 52	4	500K	8	2	2	2	2	—	8	—	100-LQFP	50	726-1140-ND ***NEW!***	9.20	7.68	7.09	LM3S1918-IQC50
		17 ~ 52	4	500K	8	2	2	2	2	—	8	—	108-BGA	50	726-1139-ND ***NEW!***	9.20	7.68	7.09	LM3S1918-IBZ50
		17 ~ 57	3	500K	3	3	1	1	3	4	4	1	100-LQFP	50	726-1066-ND	11.25	9.39	8.67	LM3S2939-IQC50
		18 ~ 57	3	500K	3	3	1	1	3	4	4	1	108-BGA	50	726-1152-ND ***NEW!***	11.25	9.39	8.67	LM3S2939-IBZ50
		21 ~ 52	4	1M	8	3	2	2	—	—	8	—	100-LQFP	50	726-1111-ND	9.81	8.19	7.56	LM3S1958-IQC50
		21 ~ 52	4	1M	8	3	2	2	—	—	8	—	108-BGA	50	726-1141-ND ***NEW!***	9.81	8.19	7.56	LM3S1958-IBZ50
		21 ~ 60	4	—	—	3	2	2	2	—	8	—	100-LQFP	50	726-1149-ND ***NEW!***	9.61	8.03	7.41	LM3S2911-IQC50
		21 ~ 60	4	—	—	3	2	2	2	—	8	—	108-BGA	50	726-1148-ND ***NEW!***	9.61	8.03	7.41	LM3S2911-IBZ50
		23 ~ 60	4	—	—	3	2	2	2	—	8	—	100-LQFP	50	726-1138-ND ***NEW!***	8.74	7.30	6.74	LM3S1911-IQC50
		23 ~ 60	4	—	—	3	2	2	2	—	8	—	108-BGA	50	726-1137-ND ***NEW!***	8.74	7.30	6.74	LM3S1911-IBZ50
		27 ~ 56	3	1M	4	2	1	1	1	6	4	—	100-LQFP	50	726-1110-ND	13.50	11.27	10.41	LM3S1937-IQC50

† Minimum is number of pins dedicated to GPIO; additional pins are available if certain peripherals are not used; See data sheet for details ‡ One timer available as RTC § PWM motion control functionality can be achieved through dedicated motion control hardware (using the PWM pins) or through the motion control features of the general-purpose timers (using CCP pins); See data sheet for details

LUMINARY MICRO Stellaris® Evaluation and Design Kits

Description	Digi-Key Part No.	Price Each	Luminary Micro Part No.
Supplemental DB28 Daughterboard for the LM3S101 Microcontroller *(Development Kit Required)*	726-1024-ND	79.00	DB-LM3S101
Supplemental DB28 Daughterboard for the LM3S102 Microcontroller *(Development Kit Required)*	726-1025-ND	79.00	DB-LM3S102
Supplemental DB48 Daughterboard for the LM3S301 Microcontroller *(Development Kit Required)*	726-1026-ND	79.00	DB-LM3S301
Supplemental DB48 Daughterboard for the LM3S310, LM3S601 and LM3S801 Microcontrollers *(Development Kit Required)*	726-1027-ND	79.00	DB-LM3S801
Supplemental DB48 Daughterboard for the LM3S315, LM3S316, LM3S611, LM3S613 and LM3S811 Microcontrollers *(Development Kit Required)*	726-1028-ND	79.00	DB-LM3S811
Supplemental DB48 Daughterboard for the LM3S610, LM3S612, LM3S615, LM3S812, LM3S815 Microcontrollers *(Development Kit Required)*	726-1029-ND	79.00	DB-LM3S815
Supplemental DB48 Daughterboard for the LM3S317, LM3S617 and LM3S817 Microcontrollers *(Development Kit Required)*	726-1030-ND	79.00	DB-LM3S817
Supplemental DB48 Daughterboard for the LM3S618 and LM3S818 Microcontrollers *(Development Kit Required)*	726-1031-ND	79.00	DB-LM3S818
Supplemental DB48 Daughterboard for the LM3S328, LM3S628 and LM3S828 Microcontrollers *(Development Kit Required)*	726-1032-ND	79.00	DB-LM3S828
Stellaris Family Development Kit for the LM3S101 Microcontroller	726-1033-ND	249.00	DK-LM3S101
Stellaris Family Development Kit for the LM3S102 Microcontroller	726-1034-ND	249.00	DK-LM3S102
Stellaris Family Development Kit for the LM3S301 Microcontroller	726-1035-ND	249.00	DK-LM3S301
Stellaris Family Development Kit for the LM3S310, LM3S601 and LM3S801 Microcontrollers	726-1036-ND	249.00	DK-LM3S801
Stellaris Family Development Kit for the LM3S315, LM3S316, LM3S611, LM3S613, LM3S811 Microcontrollers	726-1037-ND	249.00	DK-LM3S811
Stellaris Family Development Kit for the LM3S610, LM3S612, LM3S615, LM3S812, LM3S815 Microcontrollers	726-1038-ND	249.00	DK-LM3S815
Stellaris Family Development Kit for the LM3S317, LM3S617, LM3S817 Microcontrollers	726-1039-ND	249.00	DK-LM3S817
Stellaris Family Development Kit for the LM3S618 and LM3S818 Microntrollers	726-1040-ND	249.00	DK-LM3S818
Stellaris Family Development Kit for the LM3S328, LM3S628 and LM3S828 Microcontrollers	726-1041-ND	249.00	DK-LM3S828
Stellaris Family Evaluation Kit for CodeSourcery's Sourcery G++	726-1042-ND	49.00	EKC-LM3S811
Stellaris Family Evaluation Kit for IAR Embedded Workbench®	726-1043-ND	49.00	EKI-LM3S811
Stellaris Family Evaluation Kit for MDK-ARM	726-1044-ND	49.00	EKK-LM3S811
CrossFire LM3S102 Evaluation Kit	726-1045-ND	99.00	IA-LM3S102
IAR Kickstart Kit for Stellaris LM3S102 Microcontroller	726-1046-ND	149.00	RA-LM3S102
Stellaris Family AC Induction Motor Reference Design Kit	726-1047-ND	379.00	RDK-ACIM
Reference Design Kit, BLDC Motor Control	726-1128-ND	219.00	RDK-BLDC
Stellaris Family Stepper Motor Reference Design Kit	726-1048-ND	199.00	RDK-STEPPER
Stellaris Family Evaluation Kit for LM3S1000, Keil™	726-1082-ND	59.00	EKK-LM3S1968
Stellaris Family Evaluation Kit for LM3S1000, CodeSourcery	726-1083-ND	59.00	EKC-LM3S1968
Stellaris Family Evaluation Kit for LM3S1000, IAR	726-1084-ND	59.00	EKI-LM3S1968
Stellaris Family Evaluation Kit for LM3S8962, ETH+CAN, Keil™	726-1085-ND	89.00	EKK-LM3S8962
Stellaris Family Evaluation Kit for LM3S8962, ETH+CAN, CodeSourcery	726-1086-ND	89.00	EKC-LM3S8962
Stellaris Family Evaluation Kit for LM3S8962, ETH+CAN, IAR	726-1087-ND	89.00	EKI-LM3S8962
LM3A2965 CAN Evaluation Kit	726-1049-ND	79.00	EKC-LM3S2965
LM3S6965 Ethernet Evaluation Kit	726-1050-ND	69.00	EKC-LM3S6965
LM3S2965 CAN Evaluation Kit	726-1051-ND	79.00	EKI-LM3S2965
LM3S6965 Ethernet Evaluation Kit	726-1052-ND	69.00	EKI-LM3S6965
LM3S2965 CAN Evaluation Kit	726-1053-ND	79.00	EKK-LM3S2965
LM3S6965 Ethernet Evaluation Kit	726-1054-ND	69.00	EKK-LM3S6965
Stellaris Family Evaluation Kit for LM3S811, ARM® Cortex™-M3	726-1129-ND ***NEW!***	49.00	EKT-LM3S811
Stellaris Family Evaluation Kit for LM3S1968, ARM Cortex-M3	726-1130-ND ***NEW!***	59.00	EKT-LM3S1968
Stellaris Family Evaluation Kit for LM3S2965, ARM Cortex-M3	726-1131-ND ***NEW!***	79.00	EKT-LM3S2965
Stellaris Family Ethernet Evaluation Kit for LM3S6965, ARM Cortex-M3	726-1132-ND ***NEW!***	69.00	EKT-LM3S6965
Stellaris Family Ethernet+CAN Evaluation Kit for LM3S8962, ARM Cortex-M3	726-1133-ND ***NEW!***	89.00	EKT-LM3S8962
Stellaris Ethernet-Enabled Intelligent Display Module Reference Design Kit	726-1176-ND ***NEW!***	219.00	RDK-IDM
Stellaris Serial-to-Ethernet Reference Design Kit	726-1177-ND ***NEW!***	139.00	RDK-S2E
Stellaris Ethernet-Enabled Intelligent Display Module for Single-Unit Packaging	726-1174-ND ***NEW!***	199.00	MDL-IDM
Stellaris Serial-to-Ethernet Module for Single-Unit Packaging	726-1175-ND ***NEW!***	49.00	MDL-S2E
Stellaris LM3S3748 USB Host/Device Evaluation Kit for Keil Realview® MDK-ARM (16KB code-size limited)	726-1184-ND ***NEW!***	109.00	EKK-LM3S3748
Stellaris LM3S3748 USB Host/Device Evaluation Kit for IAR Systems Embedded Workbench (32KB code-size limited)	726-1185-ND ***NEW!***	109.00	EKI-LM3S3748
Stellaris LM3S3748 USB Host/Device Evaluation Kit for CodeSourcery G++ GNU (30-day limited)	726-1186-ND ***NEW!***	109.00	EKC-LM3S3748
Stellaris LM3S3748 USB Host/Device Evaluation Kit for Code Red Technologies Red Suite (board-locked)	726-1187-ND ***NEW!***	109.00	EKT-LM3S3748

LUMINARY MICRO ***NEW!*** Motor Control Boards

Description	Digi-Key Part No.	Price Each	Luminary Micro Part No.
Stellaris® ACIM Control Board	726-1171-ND	239.00	MDL-ACIM
Brushless DC Motor Control Board	726-1172-ND	149.00	MDL-BLDC
Stellaris Stepper Motor Control Board	726-1173-ND	169.00	MDL-STEPPER

ZNEO™ Z16F Series

The ZNEO™ Z16F Series of Flash microcontrollers represents Zilog's evolution into 16-bit processing. The ZNEO Z16F CPU instruction set has been optimized for near single-cycle instructions yielding up to 20 MIPS at 20MHz. Combined with 128KB of zero wait state internal Flash, powerful math functions, 32-bit ALU supporting 8, 16 and 32-bit operations, embedded 32x32 multiply/64x32 divide operations, 16-bit bus widths (and external 16-bit bus for the Z16F2811's), the ZNEO Z16F delivers a powerful, yet cost effective microcontroller solution. A rich array of peripherals and analog features make this microcontroller suitable for a large number of applications from security panels to motor control. **Features:** • WDT • POR • VBO • 12-Channel, 10-bit ADC • Analog Comparator • Operational Amplifier

Memory Size (Bytes)	RAM (Bytes)	I/O Pins	Operating Voltage	Speed (MHz)	Timers (16-bit)	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
								1	25	100		
32K	4	76	2.7 ~ 3.6V	20	3	80-QFP	269-4569-ND	7.80	5.85	4.33	Z16F3211FI20SG	269-4537-ND
						100-LQFP	269-4568-ND	7.95	5.97	4.41	Z16F3211AL20SG	
64K	4	76	2.7 ~ 3.6V	20	3	80-QFP	269-4571-ND	8.43	6.33	4.69	Z16F6411FI20SG	269-4537-ND
						100-LQFP	269-4570-ND	8.58	6.44	4.76	Z16F6411AL20SG	
128K	4	46	2.7 ~ 3.6V	20	3	64-LQFP	269-4535-ND	8.49	6.37	4.71	Z16F2810AG20SG	269-4537-ND
		46				68-PLCC	269-4536-ND	8.52	6.39	4.73	Z16F2810VH20SG	
		76				80-QFP	269-4567-ND	8.64	6.48	4.80	Z16F2810FI20SG	
		60				80-QFP	269-4534-ND	9.12	6.84	5.06	Z16F2811FI20SG	
		76				100-LQFP	269-4533-ND	9.24	6.93	5.14	Z16F2811AL20SG	

Crimzon™ Z8 OTP Microcontrollers

Zilog's Crimzon™ family of microcontrollers is ideal for use in applications requiring infrared transmission capability. Based on the famous Z8 core, this family of microcontrollers provides up to 1KB random access memory (RAM), up to 128KB of one-time programmable (OTP) memory or 64K read-only (ROM) memory, and a built-in learning amplifier all of which contribute to significant bill of material cost reductions.

Features: • WDT • LV Detect • POR • 2 Comparators • HVD • Speed: 8MHz • Timers 8/16-bit: 1/1 • Operating Voltage: 2.0 ~ 3.6V • Temperature Range: 0° ~ 70°C

OTP (Bytes)	RAM (Bytes)	I/O Lines	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
					1	25	100		
4K	237	16	20-DIP	269-3854-ND◆	3.96	2.97	2.20	ZLP32300P2004G	269-3398-ND
			20-SOIC	269-3857-ND◆	3.66	2.75	2.03	ZLP32300S2004G	
			20-SSOP	269-3851-ND◆	3.66	2.75	2.03	ZLP32300H2004G	
		24	28-DIP	269-3855-ND◆	4.29	3.22	2.39	ZLP32300P2804G	269-3398-ND
			28-SOIC	269-3858-ND◆	3.75	2.82	2.09	ZLP32300S2804G	
			28-SSOP	269-3852-ND◆	3.75	2.82	2.09	ZLP32300H2804G	
		32	40-DIP	269-3856-ND◆	4.65	3.49	2.59	ZLP32300P4004G	269-3398-ND
			48-SSOP	269-3853-ND◆	3.78	2.84	2.10	ZLP32300H4804G	
8K	237	16	20-DIP	269-3422-ND	4.20	3.15	2.34	ZLP32300P2008C	269-3398-ND
			20-DIP	269-4511-ND◆	4.20	3.15	2.34	ZLP32300P2008G	
			20-SOIC	269-3423-ND	3.90	2.93	2.17	ZLP32300S2008C	
			20-SOIC	269-4520-ND◆	3.90	2.93	2.17	ZLP32300S2008G	
			20-SSOP	269-3424-ND	3.90	2.93	2.17	ZLP32300H2008C	
			20-SSOP	269-4501-ND◆	3.90	2.93	2.17	ZLP32300H2008G	
		24	28-DIP	269-3425-ND	4.56	3.42	2.53	ZLP32300P2808C	269-3398-ND
			28-DIP	269-4514-ND◆	4.56	3.42	2.53	ZLP32300P2808G	
			28-SOIC	269-3426-ND	4.02	3.02	2.23	ZLP32300S2808C	
			28-SOIC	269-4523-ND◆	4.02	3.02	2.23	ZLP32300S2808G	
			28-SSOP	269-3427-ND	4.02	3.02	2.23	ZLP32300H2808C	
			28-SSOP	269-4504-ND◆	4.02	3.02	2.23	ZLP32300H2808G	
		32	40-DIP	269-3428-ND	4.92	3.69	2.73	ZLP32300P4008C	269-3398-ND
			40-DIP	269-4517-ND◆	4.92	3.69	2.73	ZLP32300P4008G	
			48-SSOP	269-3429-ND	4.02	3.02	2.24	ZLP32300H4808C	
			48-SSOP	269-4508-ND◆	4.02	3.02	2.24	ZLP32300H4808G	
16K	237	16	20-DIP	269-3406-ND	4.74	3.56	2.63	ZLP32300P2016C	269-3398-ND
			20-DIP	269-4512-ND◆	4.74	3.56	2.63	ZLP32300P2016G	
			20-SOIC	269-3407-ND	4.17	3.13	2.31	ZLP32300S2016C	
			20-SOIC	269-4521-ND◆	4.17	3.13	2.31	ZLP32300S2016G	
			20-SSOP	269-3408-ND	4.44	3.33	2.46	ZLP32300H2016C	
			20-SSOP	269-4502-ND◆	4.44	3.33	2.46	ZLP32300H2016G	
		24	28-DIP	269-3409-ND	4.80	3.60	2.67	ZLP32300P2816C	269-3398-ND
			28-DIP	269-4515-ND◆	4.80	3.60	2.67	ZLP32300P2816G	
			28-SOIC	269-3410-ND	4.26	3.20	2.37	ZLP32300S2816C	
			28-SOIC	269-4524-ND◆	4.26	3.20	2.37	ZLP32300S2816G	
			28-SSOP	269-3411-ND	4.26	3.20	2.37	ZLP32300H2816C	
			28-SSOP	269-4506-ND◆	4.26	3.20	2.37	ZLP32300H2816G	
		32	40-DIP	269-3412-ND	5.16	3.87	2.87	ZLP32300P4016C	269-3398-ND
			40-DIP	269-4518-ND◆	5.16	3.87	2.87	ZLP32300P4016G	
			48-SSOP	269-3413-ND	4.29	3.22	2.39	ZLP32300H4816C	
			48-SSOP	269-4509-ND◆	4.29	3.22	2.39	ZLP32300H4816G	

OTP (Bytes)	RAM (Bytes)	I/O Lines	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
					1	25	100		
32K	237	16	20-DIP	269-3414-ND	4.98	3.74	2.77	ZLP32300P2032C	269-3398-ND
			20-DIP	269-4513-ND◆	4.98	3.74	2.77	ZLP32300P2032G	
			20-SOIC	269-3415-ND	4.44	3.33	2.46	ZLP32300S2032C	
			20-SOIC	269-4522-ND◆	4.44	3.33	2.46	ZLP32300S2032G	
			20-SSOP	269-3416-ND	4.44	3.33	2.46	ZLP32300H2032C	
			20-SSOP	269-4503-ND◆	4.44	3.33	2.46	ZLP32300H2032G	
		24	28-DIP	269-3417-ND	5.07	3.81	2.81	ZLP32300P2832C	269-3398-ND
			28-DIP	269-4516-ND◆	5.07	3.81	2.81	ZLP32300P2832G	
			28-SOIC	269-3418-ND	4.53	3.40	2.51	ZLP32300S2832C	
			28-SOIC	269-4526-ND◆	4.53	3.40	2.51	ZLP32300S2832G	
			28-SSOP	269-3419-ND	4.53	3.40	2.51	ZLP32300H2832C	
			28-SSOP	269-4507-ND◆	4.53	3.40	2.51	ZLP32300H2832G	
		32	40-DIP	269-3420-ND	5.46	4.10	3.04	ZLP32300P4032C	269-3398-ND
			40-DIP	269-4519-ND◆	5.46	4.10	3.04	ZLP32300P4032G	
			48-SSOP	269-4510-ND◆	4.56	3.42	2.53	ZLP32300H4832G	
32K	1K	16	20-DIP	269-3839-ND◆	5.79	4.35	3.21	ZLP12840P2032G	269-3398-ND
			20-SOIC	269-3845-ND◆	5.16	3.87	2.87	ZLP12840S2032G	
			20-SSOP	269-3833-ND◆	5.16	3.87	2.87	ZLP12840H2032G	
		24	28-DIP	269-3842-ND◆	5.88	4.41	3.26	ZLP12840P2832G	269-3398-ND
			28-SOIC	269-3848-ND◆	5.28	3.96	2.93	ZLP12840S2832G	
			28-SSOP	269-3836-ND◆	5.28	3.96	2.93	ZLP12840H2832G	
64K	1K	16	20-DIP	269-3840-ND◆	6.36	4.77	3.54	ZLP12840P2064G	269-3398-ND
			20-SOIC	269-3846-ND◆	5.70	4.28	3.16	ZLP12840S2064G	
			20-SSOP	269-3834-ND◆	5.70	4.28	3.16	ZLP12840H2064G	
		24	28-DIP	269-3843-ND◆	6.45	4.84	3.59	ZLP12840P2864G	269-3398-ND
			28-SOIC	269-3849-ND◆	5.82	4.37	3.23	ZLP12840S2864G	
96K	1K	16	20-DIP	269-3841-ND◆	7.02	5.27	3.90	ZLP12840P2096G	269-3398-ND
			20-SOIC	269-3847-ND◆	6.27	4.71	3.49	ZLP12840S2096G	
			20-SSOP	269-3835-ND◆	6.27	4.71	3.49	ZLP12840H2096G	
		24	28-DIP	269-3844-ND◆	7.14	5.36	3.96	ZLP12840P2896G	269-3398-ND
			28-SOIC	269-3850-ND◆	6.42	4.82	3.56	ZLP12840S2896G	
			28-SOIC	269-4667-ND◆	7.47	5.61	3.56	ZLP12840H2896G	
			28-SSOP	269-3838-ND◆	6.42	4.82	3.56	ZLP12840H2896G	
128K	1K	16	20-DIP	269-3825-ND◆	7.74	5.81	4.30	ZLP12840P2028G	269-3398-ND
			20-SOIC	269-3827-ND◆	6.90	5.18	3.84	ZLP12840S2028G	
			20-SSOP	269-3823-ND◆	6.90	5.18	3.84	ZLP12840H2028G	
		24	28-DIP	269-3826-ND◆	7.86	5.90	4.36	ZLP12840P2828G	269-3398-ND
			28-SOIC	269-3828-ND◆	7.05	5.29	3.91	ZLP12840S2828G	
			28-SSOP	269-3824-ND◆	7.05	5.29	3.91	ZLP12840H2828G	

◆ ***RoHS Compliant***

Crimzon RC Blaster™ Z8 OTP Microcontrollers

The Crimzon RC Blaster™ microcontroller and database solution supports the increasing demand of adding universal remote control functionality into systems quickly and easily. Included in this device is a comprehensive North American infrared (IR) code database derived from Zilog's highly-acclaimed ZBASE®. The database covers the major brands and keys for TV, VCR, DVD, cable, satellite, and audio systems.

Features: • Low-power Stop-Mode consumption -2µA (Typical) • Operating Voltage: 2.0 ~ 3.6V • Comprehensive North American, 6-in-1, plus European Satellite and Cable database included with no separate licensing fees • Hardware jumper and command configurable

Note: Purchase of licensed kit is required before use of RC Blaster IC.

OTP (Bytes)	RAM (Bytes)	I/O Lines	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
					1	25	100		
64K	1K	16	20-SSOP	269-4679-5-ND	7.14	5.36	3.97	ZLPBLST0H2064GR55W4	269-4682-ND
			20-DIP	269-4680-5-ND	7.86	5.90	4.37	ZLPBLST0P2064GR55W4	
			20-SOIC	269-4681-5-ND	7.14	5.36	3.97	ZLPBLST0S2064GR55W4	

zilog

Z8 GP™ OTP Microcontrollers

The ZGP323H/L and ZGR163L/323L are OTP and ROM-based members of Zilog's new Z8 GP™ MCU family of general-purpose microcontrollers. Offering 237 bytes of general-purpose RAM and up to 32KB of OTP memory, Zilog's Z8 GP MCU family provides support for standard, extended, and automotive temperature ranges. The low-voltage series supports voltage ranges from 2.0V to 3.6V, making it perfect for low-power applications. The high-voltage series supports voltage ranges from 2.0V to 5.5V. Both series offer fast-executing memory use, high GPIO, sophisticated interrupts, input/output bit manipulation, automated pulse generation/reception, and internal key-scan pull up resistors. **Features:** • WDT • LV Detect • POR • 2 Comparators • HVD • Speed: 8MHz • Timer/Counters (8/16-bit): 1/1 • Temperature Range: Commercial 0°C ~ 70°C, Extended -40°C ~ 105°C, Automotive -40°C ~ 125°C • Development Tool: 269-3390-ND

RAM (Bytes)	I/O Pins	Operating Voltage	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.
						1	25	100	
4KB Program Memory Size									
237	16	2.0 ~ 5.5V	Automotive	20-SSOP	269-4308-ND◆	3.18	2.39	1.76	ZGP323HAH2004G
			Automotive	20-DIP	269-4320-ND◆	3.63	2.73	2.01	ZGP323HAP2004G
			Automotive	20-SOIC	269-4332-ND◆	3.12	2.34	1.74	ZGP323HAS2004G
			Extended	20-SSOP	269-3502-ND	3.06	2.30	1.70	ZGP323HEH2004C
			Extended	20-SSOP	269-4340-ND◆	3.06	2.30	1.70	ZGP323HEH2004G
			Extended	20-DIP	269-3514-ND	3.54	2.66	1.96	ZGP323HEP2004C
			Extended	20-DIP	269-4352-ND◆	3.54	2.66	1.96	ZGP323HEP2004G
			Extended	20-SOIC	269-3526-ND	3.03	2.28	1.69	ZGP323HES2004C
			Extended	20-SOIC	269-4364-ND◆	3.03	2.28	1.69	ZGP323HES2004G
			Commercial	20-SSOP	269-4372-ND◆	2.94	2.21	1.64	ZGP323HSH2004G
			Commercial	20-DIP	269-3549-ND	3.42	2.57	1.90	ZGP323HSP2004C
			Commercial	20-DIP	269-4384-ND◆	3.42	2.57	1.90	ZGP323HSP2004G
			Commercial	20-SOIC	269-3561-ND	2.94	2.21	1.63	ZGP323HSS2004C
			Commercial	20-SOIC	269-4396-ND◆	2.94	2.21	1.63	ZGP323HSS2004G
	16	2.0 ~ 3.6V	Automotive	20-SSOP	269-4404-ND◆	2.91	2.19	1.61	ZGP323LAH2004G
			Automotive	20-DIP	269-4416-ND◆	3.36	2.52	1.87	ZGP323LAP2004G
			Automotive	20-SOIC	269-4428-ND◆	2.88	2.16	1.60	ZGP323LAS2004G
			Extended	20-SSOP	269-3569-ND	2.82	2.12	1.56	ZGP323LEH2004C
			Extended	20-SSOP	269-4436-ND◆	2.82	2.12	1.56	ZGP323LEH2004G
			Extended	20-DIP	269-3581-ND	3.27	2.46	1.81	ZGP323LEP2004C
			Extended	20-DIP	269-4447-ND◆	3.27	2.46	1.81	ZGP323LEP2004G
			Extended	20-SOIC	269-3593-ND	2.76	2.07	1.54	ZGP323LES2004C
			Extended	20-SOIC	269-4459-ND◆	2.76	2.07	1.54	ZGP323LES2004G
			Commercial	20-SSOP	269-3601-ND	2.70	2.03	1.50	ZGP323LSH2004C
			Commercial	20-SSOP	269-4467-ND◆	2.70	2.03	1.50	ZGP323LSH2004G
			Commercial	20-DIP	269-3616-ND	3.12	2.34	1.74	ZGP323LSP2004C
			Commercial	20-DIP	269-4479-ND◆	3.12	2.34	1.74	ZGP323LSP2004G
			Commercial	20-SOIC	269-3628-ND	2.67	2.01	1.49	ZGP323LSS2004C
			Commercial	20-SOIC	269-4491-ND◆	2.67	2.01	1.49	ZGP323LSS2004G
	24	2.0 ~ 5.5V	Automotive	28-SSOP	269-4312-ND◆	3.24	2.43	1.80	ZGP323HAH2804G
			Automotive	28-DIP	269-4324-ND◆	3.72	2.79	2.06	ZGP323HAP2804G
			Automotive	28-SOIC	269-4336-ND◆	3.24	2.43	1.80	ZGP323HAS2804G
			Extended	28-SSOP	269-3506-ND	3.12	2.34	1.74	ZGP323HEH2804C
			Extended	28-SSOP	269-4344-ND◆	3.12	2.34	1.74	ZGP323HEH2804G
			Extended	28-DIP	269-3518-ND	3.57	2.68	1.99	ZGP323HEP2804C
			Extended	28-DIP	269-4356-ND◆	3.57	2.68	1.99	ZGP323HEP2804G
			Extended	28-SOIC	269-3530-ND	3.12	2.34	1.74	ZGP323HES2804C
			Extended	28-SOIC	269-4368-ND◆	3.12	2.34	1.74	ZGP323HES2804G
			Commercial	28-SSOP	269-3538-ND	3.00	2.25	1.67	ZGP323HSH2804C
			Commercial	28-SSOP	269-4376-ND◆	3.00	2.25	1.67	ZGP323HSH2804G
			Commercial	28-DIP	269-3553-ND	3.48	2.61	1.93	ZGP323HSP2804C
			Commercial	28-DIP	269-4388-ND◆	3.48	2.61	1.93	ZGP323HSP2804G
			Commercial	28-SOIC	269-3565-ND	3.00	2.25	1.67	ZGP323HSS2804C
			Commercial	28-SOIC	269-4400-ND◆	3.00	2.25	1.67	ZGP323HSS2804G
	24	2.0 ~ 3.6V	Automotive	28-SSOP	269-4408-ND◆	3.00	2.25	1.66	ZGP323LAH2804G
			Automotive	28-DIP	269-4420-ND◆	3.42	2.57	1.90	ZGP323LAP2804G
			Automotive	28-SOIC	269-4432-ND◆	3.00	2.25	1.66	ZGP323LAS2804G
			Extended	28-SSOP	269-3573-ND	2.85	2.14	1.59	ZGP323LEH2804C
			Extended	28-SSOP	269-4439-ND◆	2.85	2.14	1.59	ZGP323LEH2804G
			Extended	28-DIP	269-3585-ND	3.30	2.48	1.84	ZGP323LEP2804C
			Extended	28-DIP	269-4451-ND◆	3.30	2.48	1.84	ZGP323LEP2804G
			Extended	28-SOIC	269-3597-ND	2.85	2.14	1.59	ZGP323LES2804C
			Extended	28-SOIC	269-4463-ND◆	2.85	2.14	1.59	ZGP323LES2804G
			Commercial	28-SSOP	269-3605-ND	2.76	2.07	1.53	ZGP323LSH2804C
			Commercial	28-SSOP	269-4471-ND◆	2.76	2.07	1.53	ZGP323LSH2804G
			Commercial	28-DIP	269-3620-ND	3.21	2.41	1.79	ZGP323LSP2804C
			Commercial	28-DIP	269-4483-ND◆	3.21	2.41	1.79	ZGP323LSP2804G
			Commercial	28-SOIC	269-3632-ND	2.85	2.14	1.58	ZGP323LSS2804C
			Commercial	28-SOIC	269-4495-ND◆	2.85	2.14	1.58	ZGP323LSS2804G
	32	2.0 ~ 5.5V	Automotive	40-DIP	269-4328-ND◆	4.02	3.02	2.24	ZGP323HAP4004G
			Extended	40-DIP	269-4360-ND◆	3.93	2.95	2.19	ZGP323HEP4004G
			Commercial	40-DIP	269-3557-ND	3.84	2.88	2.13	ZGP323HSP4004C
			Commercial	40-DIP	269-4392-ND◆	3.84	2.88	2.13	ZGP323HSP4004G
	32	2.0 ~ 3.6V	Automotive	40-DIP	269-4424-ND◆	3.78	2.84	2.10	ZGP323LAP4004G
			Extended	40-DIP	269-3589-ND	3.66	2.75	2.04	ZGP323LEP4004C
			Extended	40-DIP	269-4455-ND◆	3.66	2.75	2.04	ZGP323LEP4004G
			Commercial	40-DIP	269-3624-ND	3.57	2.68	1.99	ZGP323LSP4004C
			Commercial	40-DIP	269-4487-ND◆	3.57	2.68	1.99	ZGP323LSP4004G
	32	2.0 ~ 5.5V	Automotive	48-SSOP	269-4316-ND◆	3.27	2.46	1.81	ZGP323HAH4804G
			Extended	48-SSOP	269-3510-ND	3.12	2.34	1.74	ZGP323HEH4804C
			Extended	48-SSOP	269-4348-ND◆	3.12	2.34	1.74	ZGP323HEH4804G
			Commercial	48-SSOP	269-3542-ND	3.03	2.28	1.69	ZGP323HSH4804C
			Commercial	48-SSOP	269-4380-ND◆	3.03	2.28	1.69	ZGP323HSH4804G
	32	2.0 ~ 3.6V	Automotive	48-SSOP	269-4412-ND◆	3.00	2.25	1.66	ZGP323LAH4804G
			Extended	48-SSOP	269-3577-ND	2.88	2.16	1.60	ZGP323LEH4804C
			Extended	48-SSOP	269-4443-ND◆	2.88	2.16	1.60	ZGP323LEH4804G
			Commercial	48-SSOP	269-3609-ND	2.76	2.07	1.54	ZGP323LSH4804C
			Commercial	48-SSOP	269-4475-ND◆	2.76	2.07	1.54	ZGP323LSH4804G

RAM (Bytes)	I/O Pins	Operating Voltage	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.
						1	25	100	
8KB Program Memory Size									
237	16	2.0 ~ 3.6V	Automotive	20-SSOP	269-4309-ND◆	3.30	2.48	1.83	ZGP323HAH2008G
			Automotive	20-DIP	269-4321-ND◆	3.72	2.79	2.07	ZGP323HAP2008G
			Automotive	20-SOIC	269-4333-ND◆	3.27	2.46	1.81	ZGP323HAS2008G
			Extended	20-SSOP	269-3503-ND	3.18	2.39	1.76	ZGP323HEH2008C
			Extended	20-SSOP	269-4341-ND◆	3.18	2.39	1.76	ZGP323HEH2008G
			Extended	20-DIP	269-3515-ND	3.63	2.73	2.01	ZGP323HEP2008C
			Extended	20-DIP	269-4353-ND◆	3.63	2.73	2.01	ZGP323HEP2008G
			Extended	20-SOIC	269-3527-ND	3.12	2.34	1.74	ZGP323HES2008C
			Extended	20-SOIC	269-4365-ND◆	3.12	2.34	1.74	ZGP323HES2008G
			Commercial	20-SSOP	269-4373-ND◆	3.06	2.30	1.70	ZGP323HSH2008G
			Commercial	20-DIP	269-3550-ND	3.54	2.66	1.96	ZGP323HSP2008C
			Commercial	20-DIP	269-4385-ND◆	3.54	2.66	1.96	ZGP323HSP2008G
			Commercial	20-SOIC	269-3562-ND	3.03	2.28	1.69	ZGP323HSS2008C
			Commercial	20-SOIC	269-4397-ND◆	3.03	2.28	1.69	ZGP323HSS2008G
	16	2.0 ~ 3.6V	Automotive	20-SSOP	269-4405-ND◆	3.00	2.25	1.67	ZGP323LAH2008G
			Automotive	20-DIP	269-4417-ND◆	3.48	2.61	1.93	ZGP323LAP2008G
			Automotive	20-SOIC	269-4429-ND◆	3.00	2.25	1.66	ZGP323LAS2008G
			Extended	20-SSOP	269-3570-ND	2.91	2.19	1.61	ZGP323LEH2008C
			Extended	20-SSOP	269-4528-ND◆	2.91	2.19	1.61	ZGP323LEH2008G
			Extended	20-DIP	269-4448-ND◆	3.36	2.52	1.87	ZGP323LEP2008G
			Extended	20-SOIC	269-3594-ND	2.88	2.16	1.60	ZGP323LES2008C
			Extended	20-SOIC	269-4460-ND◆	2.88	2.16	1.60	ZGP323LES2008G
			Commercial	20-SSOP	269-3602-ND	2.82	2.12	1.56	ZGP323LSH2008C
			Commercial	20-SSOP	269-4468-ND◆	2.82	2.12	1.56	ZGP323LSH2008G
			Commercial	20-DIP	269-3617-ND	3.27	2.46	1.81	ZGP323LSP2008C
			Commercial	20-DIP	269-4480-ND◆	3.27	2.46	1.81	ZGP323LSP2008G
			Commercial	20-SOIC	269-3629-ND	2.85	2.14	1.58	ZGP323LSS2008C
			Commercial	20-SOIC	269-4492-ND◆	2.85	2.14	1.58	ZGP323LSS2008G
	24	2.0 ~ 5.5V	Automotive	28-SSOP	269-4313-ND◆	3.36	2.52	1.86	ZGP323HAH2808G
			Automotive	28-DIP	269-4325-ND◆	3.81	2.86	2.11	ZGP323HAP2808G
			Automotive	28-SOIC	269-4337-ND◆	3.36	2.52	1.86	ZGP323HAS2808G
			Extended	28-SSOP	269-3507-ND	3.24	2.43	1.80	ZGP323HEH2808C
			Extended	28-SSOP	269-4345-ND◆	3.24	2.43	1.80	ZGP323HEH2808G
			Extended	28-DIP	269-3519-ND	3.72	2.79	2.06	ZGP323HEP2808C
			Extended	28-DIP	269-4357-ND◆	3.72	2.79	2.06	ZGP323HEP2808G
			Extended	28-SOIC	269-3531-ND	3.24	2.43	1.80	ZGP323HES2808C
			Extended	28-SOIC	269-4369-ND◆	3.24	2.43	1.80	ZGP323HES2808G
			Commercial	28-SSOP	269-4377-ND◆	3.12	2.34	1.74	ZGP323HSH2808G
			Commercial	28-DIP	269-3554-ND	3.57	2.68	1.99	ZGP323HSP2808C
			Commercial	28-DIP	269-4389-ND◆	3.57	2.68	1.99	ZGP323HSP2808G
			Commercial	28-SOIC	269-3566-ND	3.12	2.34	1.74	ZGP323HSS2808C
			Commercial	28-SOIC	269-4401-ND◆	3.12	2.34	1.74	ZGP323HSS2808G
	24	2.0 ~ 3.6V	Automotive	28-SSOP	269-4409-ND◆	3.09	2.32	1.71	ZGP323LAH2808G
			Automotive	28-DIP	269-4421-ND◆	3.54	2.66	1.97	ZGP323LAP2808G
			Automotive	28-SOIC	269-4433-ND◆	3.09	2.32	1.71	ZGP323LAS2808G
			Extended	28-SSOP	269-3574-ND	3.00	2.25	1.66	ZGP323LEH2808C
			Extended	28-DIP	269-3586-ND	3.42	2.57	1.90	ZGP323LEP2808C
			Extended	28-SOIC	269-3598-ND	3.00	2.25	1.66	ZGP323LES2808C
			Commercial	28-SSOP	269-3606-ND	2.85	2.14	1.59	ZGP323LSH2808C
			Commercial	28-DIP	269-3621-ND	3.30	2.48	1.84	ZGP323LSP2808C
			Commercial	28-SOIC	269-3633-ND	2.91	2.19	1.62	ZGP323LSS2808C
	24	2.0 ~ 3.6V	Extended	28-SSOP	269-4440-ND◆	3.00	2.25	1.66	ZGP323LEH2808G
			Extended	28-DIP	269-4452-ND◆	3.42	2.57	1.90	ZGP323LEP2808G
			Extended	28-SOIC	269-4464-ND◆	3.00	2.25	1.66	ZGP323LES2808G
			Commercial	28-SSOP	269-4472-ND◆	2.85	2.14	1.59	ZGP323LSH2808G
			Commercial	28-DIP	269-4484-ND◆	3.30	2.48	1.84	ZGP323LSP2808G
			Commercial	28-SOIC	269-4496-ND◆	2.91	2.19	1.62	ZGP323LSS2808G
	32	2.0 ~ 5.5V	Automotive	40-DIP	269-4329-ND◆	4.17	3.13	2.31	ZGP323HAP4008G
			Extended	40-DIP	269-3523-ND	4.02	3.02	2.24	ZGP323HEP4008C
			Extended	40-DIP	269-4361-ND◆	4.02	3.02	2.24	ZGP323HEP4008G
			Commercial	40-DIP	269-3558-ND	3.93	2.95	2.19	ZGP323HSP4008C
			Commercial	40-DIP	269-4393-ND◆	3.93	2.95	2.19	ZGP323HSP4008G
	32	2.0 ~ 3.6V	Automotive	40-DIP	269-4425-ND◆	3.90	2.93	2.16	ZGP323LAP4008G
			Extended	40-DIP	269-3590-ND	3.78	2.84	2.10	ZGP323LEP4008C
			Extended	40-DIP	269-4456-ND◆	3.78	2.84	2.10	ZGP323LEP4008G
			Commercial	40-DIP	269-3625-ND	3.66	2.75	2.04	ZGP323LSP4008C
			Commercial	40-DIP	269-4488-ND◆	3.66	2.75	2.04	ZGP323LSP4008G
	32	2.0 ~ 5.5V	Automotive	48-SSOP	269-4317-ND◆	3.36	2.52	1.87	ZGP323HAH4808G
			Extended	48-SSOP	269-3511-ND	3.27	2.46	1.81	ZGP323HEH4808C
			Extended	48-SSOP	269-4349-ND◆	3.27	2.46	1.81	ZGP323HEH4808G
			Commercial	48-SSOP	269-3543-ND	3.12	2.34	1.74	ZGP323HSH4808C
			Commercial	48-SSOP	269-4381-ND◆	3.12	2.34	1.74	ZGP323HSH4808G
	32	2.0 ~ 3.6V	Automotive	48-SSOP	269-4413-ND◆	3.12	2.34	1.73	ZGP323LAH4808G
			Extended	48-SSOP	269-3578-ND	3.00	2.25	1.66	ZGP323LEH4808C
			Extended	48-SSOP	269-4444-ND◆	3.00	2.25	1.66	ZGP323LEH4808G
			Commercial	48-SSOP	269-3610-ND	2.88	2.16	1.60	ZGP323LSH4808C
			Commercial	48-SSOP	269-4476-ND◆	2.88	2.16	1.60	ZGP323LSH4808G

◆ ***RoHS Compliant***

(Continued)

Z8 GP™ OTP Microcontrollers *(Cont.)*

RAM (Bytes)	I/O Pins	Operating Voltage	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.
						1	25	100	
16KB Program Memory Size									
237	16	2.0 ~ 5.5V	Automotive	20-SSOP	269-4310-ND◆	3.39	2.55	1.89	ZGP323HAH2016G
			Automotive	20-DIP	269-4322-ND◆	3.84	2.88	2.14	ZGP323HAP2016G
			Automotive	20-SOIC	269-4334-ND◆	3.36	2.52	1.87	ZGP323HAS2016G
			Extended	20-SSOP	269-3504-ND	3.30	2.48	1.83	ZGP323HEH2016C
			Extended	20-SSOP	269-4342-ND◆	3.30	2.48	1.83	ZGP323HEH2016G
			Extended	20-DIP	269-3516-ND	3.72	2.79	2.07	ZGP323HEP2016C
			Extended	20-DIP	269-4354-ND◆	3.72	2.79	2.07	ZGP323HEP2016G
			Extended	20-SOIC	269-3528-ND	3.27	2.46	1.81	ZGP323HES2016C
			Extended	20-SOIC	269-4366-ND◆	3.27	2.46	1.81	ZGP323HES2016G
			Commercial	20-SSOP	269-4374-ND◆	3.18	2.39	1.76	ZGP323HSH2016G
			Commercial	20-DIP	269-3551-ND	3.63	2.73	2.01	ZGP323HSP2016C
			Commercial	20-DIP	269-4386-ND◆	3.63	2.73	2.01	ZGP323HSP2016G
			Commercial	20-SOIC	269-3563-ND	3.12	2.34	1.74	ZGP323HSS2016C
			Commercial	20-SOIC	269-4398-ND◆	3.12	2.34	1.74	ZGP323HSS2016G
	16	2.0 ~ 3.6V	Automotive	20-SSOP	269-4406-ND◆	3.12	2.34	1.74	ZGP323LAH2016G
			Automotive	20-DIP	269-4418-ND◆	3.57	2.68	1.99	ZGP323LAP2016G
			Automotive	20-SOIC	269-4430-ND◆	3.12	2.34	1.73	ZGP323LAS2016G
			Extended	20-SSOP	269-4437-ND◆	3.00	2.25	1.67	ZGP323LEH2016G
			Extended	20-DIP	269-3583-ND	3.48	2.61	1.93	ZGP323LEP2016C
			Extended	20-DIP	269-4449-ND◆	3.48	2.61	1.93	ZGP323LEP2016G
			Extended	20-SOIC	269-3595-ND	3.00	2.25	1.66	ZGP323LES2016C
			Extended	20-SOIC	269-4461-ND◆	3.00	2.25	1.66	ZGP323LES2016G
			Commercial	20-SSOP	269-3603-ND	2.91	2.19	1.61	ZGP323LSH2016C
			Commercial	20-SSOP	269-4469-ND◆	2.91	2.19	1.61	ZGP323LSH2016G
			Commercial	20-DIP	269-3618-ND	3.36	2.52	1.87	ZGP323LSP2016C
			Commercial	20-DIP	269-4481-ND◆	3.36	2.52	1.87	ZGP323LSP2016G
			Commercial	20-SOIC	269-3630-ND	2.91	2.19	1.62	ZGP323LSS2016C
			Commercial	20-SOIC	269-4493-ND◆	2.91	2.19	1.62	ZGP323LSS2016G
	16	2.0 ~ 5.5V	Automotive	28-SSOP	269-4314-ND◆	3.45	2.59	1.91	ZGP323HAH2816G
			Automotive	28-DIP	269-4326-ND◆	3.90	2.93	2.17	ZGP323HAP2816G
			Automotive	28-SOIC	269-4338-ND◆	3.45	2.59	1.91	ZGP323HAS2816G
			Extended	28-SSOP	269-3508-ND	3.36	2.52	1.86	ZGP323HEH2816C
			Extended	28-SSOP	269-4346-ND◆	3.36	2.52	1.86	ZGP323HEH2816G
			Extended	28-DIP	269-3520-ND	3.81	2.86	2.11	ZGP323HEP2816C
			Extended	28-DIP	269-4358-ND◆	3.81	2.86	2.11	ZGP323HEP2816G
			Extended	28-SOIC	269-4370-ND◆	3.36	2.52	1.86	ZGP323HES2816G
			Commercial	28-SSOP	269-3540-ND	3.24	2.43	1.80	ZGP323HSH2816C
			Commercial	28-SSOP	269-4378-ND◆	3.24	2.43	1.80	ZGP323HSH2816G
			Commercial	28-DIP	269-3555-ND	3.72	2.79	2.06	ZGP323HSP2816C
			Commercial	28-DIP	269-4390-ND◆	3.72	2.79	2.06	ZGP323HSP2816G
			Commercial	28-SOIC	269-3567-ND	3.24	2.43	1.80	ZGP323HSS2816C
			Commercial	28-SOIC	269-4402-ND◆	3.24	2.43	1.80	ZGP323HSS2816G
	16	2.0 ~ 3.6V	Automotive	28-SSOP	269-4410-ND◆	3.18	2.39	1.77	ZGP323LAH2816G
			Automotive	28-DIP	269-4422-ND◆	3.66	2.75	2.03	ZGP323LAP2816G
			Automotive	28-SOIC	269-4434-ND◆	3.18	2.39	1.77	ZGP323LAS2816G
			Extended	28-SSOP	269-3575-ND	3.09	2.32	1.71	ZGP323LEH2816C
			Extended	28-SSOP	269-4441-ND◆	3.09	2.32	1.71	ZGP323LEH2816G
			Extended	28-DIP	269-3587-ND	3.54	2.66	1.97	ZGP323LEP2816C
			Extended	28-DIP	269-4453-ND◆	3.54	2.66	1.97	ZGP323LEP2816G
			Extended	28-SOIC	269-3599-ND	3.09	2.32	1.71	ZGP323LES2816C
			Extended	28-SOIC	269-4465-ND◆	3.09	2.32	1.71	ZGP323LES2816G
			Commercial	28-SSOP	269-3607-ND	3.00	2.25	1.66	ZGP323LSH2816C
			Commercial	28-SSOP	269-4473-ND◆	3.00	2.25	1.66	ZGP323LSH2816G
			Commercial	28-DIP	269-3622-ND	3.42	2.57	1.90	ZGP323LSP2816C
			Commercial	28-DIP	269-4485-ND◆	3.42	2.57	1.90	ZGP323LSP2816G
			Commercial	28-SOIC	269-3634-ND	3.00	2.25	1.67	ZGP323LSS2816C
			Commercial	28-SOIC	269-4497-ND◆	3.00	2.25	1.67	ZGP323LSS2816G
	32	2.0 ~ 5.5V	Automotive	40-DIP	269-4330-ND◆	4.26	3.20	2.37	ZGP323HAP4016G
			Extended	40-DIP	269-3524-ND	4.17	3.13	2.31	ZGP323HEP4016C
			Extended	40-DIP	269-4362-ND◆	4.17	3.13	2.31	ZGP323HEP4016G
			Commercial	40-DIP	269-3559-ND	4.02	3.02	2.24	ZGP323HSP4016C
			Commercial	40-DIP	269-4394-ND◆	4.02	3.02	2.24	ZGP323HSP4016G
	32	2.0 ~ 3.6V	Automotive	40-DIP	269-4426-ND◆	4.02	3.02	2.23	ZGP323LAP4016G
			Extended	40-DIP	269-3591-ND	3.90	2.93	2.16	ZGP323LEP4016C
			Extended	40-DIP	269-4457-ND◆	3.90	2.93	2.16	ZGP323LEP4016G
			Commercial	40-DIP	269-3626-ND	3.78	2.84	2.10	ZGP323LSP4016C
			Commercial	40-DIP	269-4489-ND◆	3.78	2.84	2.10	ZGP323LSP4016G
	32	2.0 ~ 5.5V	Automotive	48-SSOP	269-4318-ND◆	3.48	2.61	1.93	ZGP323HAH4816G
			Extended	48-SSOP	269-3512-ND	3.36	2.52	1.87	ZGP323HEH4816C
			Extended	48-SSOP	269-4350-ND◆	3.36	2.52	1.87	ZGP323HEH4816G
			Commercial	48-SSOP	269-3544-ND	3.27	2.46	1.81	ZGP323HSH4816C
			Commercial	48-SSOP	269-4382-ND◆	3.27	2.46	1.81	ZGP323HSH4816G
	32	2.0 ~ 3.6V	Automotive	48-SSOP	269-4414-ND◆	3.21	2.41	1.79	ZGP323LAH4816G
			Extended	48-SSOP	269-3579-ND	3.12	2.34	1.73	ZGP323LEH4816C
			Extended	48-SSOP	269-4445-ND◆	3.12	2.34	1.73	ZGP323LEH4816G
			Commercial	48-SSOP	269-3611-ND	3.00	2.25	1.66	ZGP323LSH4816C
			Commercial	48-SSOP	269-4477-ND◆	3.00	2.25	1.66	ZGP323LSH4816G

RAM (Bytes)	I/O Pins	Operating Voltage	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.
						1	25	100	
32KB Program Memory Size									
237	16	2.0 ~ 5.5V	Automotive	20-SSOP	269-4311-ND◆	3.48	2.61	1.93	ZGP323HAH2032G
			Automotive	20-DIP	269-4323-ND◆	3.96	2.97	2.20	ZGP323HAP2032G
			Automotive	20-SOIC	269-4335-ND◆	3.48	2.61	1.93	ZGP323HAS2032G
			Extended	20-SSOP	269-3505-ND	3.36	2.52	1.87	ZGP323HEH2032C
			Extended	20-SSOP	269-4343-ND◆	3.36	2.52	1.87	ZGP323HEH2032G
			Extended	20-DIP	269-3517-ND	3.84	2.88	2.14	ZGP323HEP2032C
			Extended	20-DIP	269-4355-ND◆	3.84	2.88	2.14	ZGP323HEP2032G
			Extended	20-SOIC	269-3529-ND	3.36	2.52	1.87	ZGP323HES2032C
			Extended	20-SOIC	269-4367-ND◆	3.36	2.52	1.87	ZGP323HES2032G
			Commercial	20-SSOP	269-4375-ND◆	3.27	2.46	1.81	ZGP323HSH2032G
			Commercial	20-CDIP	269-3546-ND	25.50	19.13	9.35	ZGP323HSK2032E
			Commercial	20-DIP	269-3552-ND	3.72	2.79	2.07	ZGP323HSP2032C
			Commercial	20-DIP	269-4387-ND◆	3.72	2.79	2.07	ZGP323HSP2032G
			Commercial	20-SOIC	269-3564-ND	3.27	2.46	1.81	ZGP323HSS2032C
			Commercial	20-SOIC	269-4399-ND◆	3.27	2.46	1.81	ZGP323HSS2032G
	16	2.0 ~ 3.6V	Automotive	20-SSOP	269-4407-ND◆	3.21	2.41	1.79	ZGP323LAH2032G
			Automotive	20-DIP	269-4419-ND◆	3.72	2.79	2.06	ZGP323LAP2032G
			Automotive	20-SOIC	269-4431-ND◆	3.21	2.41	1.79	ZGP323LAS2032G
			Extended	20-SSOP	269-3572-ND	3.12	2.34	1.73	ZGP323LEH2032C
			Extended	20-SSOP	269-4438-ND◆	3.12	2.34	1.73	ZGP323LEH2032G
			Extended	20-DIP	269-3584-ND	3.57	2.68	1.99	ZGP323LEP2032C
			Extended	20-DIP	269-4450-ND◆	3.57	2.68	1.99	ZGP323LEP2032G
			Extended	20-SOIC	269-3596-ND	3.12	2.34	1.73	ZGP323LES2032C
			Extended	20-SOIC	269-4462-ND◆	3.12	2.34	1.73	ZGP323LES2032G
			Commercial	20-SSOP	269-3604-ND	3.00	2.25	1.66	ZGP323LSH2032C
			Commercial	20-SSOP	269-4470-ND◆	3.00	2.25	1.66	ZGP323LSH2032G
			Commercial	20-CDIP	269-3613-ND	25.50	19.13	9.35	ZGP323LSK2032E
			Commercial	20-DIP	269-3619-ND	3.48	2.61	1.93	ZGP323LSP2032C
			Commercial	20-DIP	269-4482-ND◆	3.48	2.61	1.93	ZGP323LSP2032G
			Commercial	20-SOIC	269-3631-ND	3.00	2.25	1.67	ZGP323LSS2032C
			Commercial	20-SOIC	269-4494-ND◆	3.00	2.25	1.66	ZGP323LSS2032G
	16	2.0 ~ 5.5V	Automotive	28-SSOP	269-4315-ND◆	3.57	2.68	1.99	ZGP323HAH2832G
			Automotive	28-DIP	269-4327-ND◆	4.02	3.02	2.23	ZGP323HAP2832G
			Automotive	28-SOIC	269-4339-ND◆	3.57	2.68	1.99	ZGP323HAS2832G
			Extended	28-SSOP	269-4347-ND◆	3.45	2.59	1.91	ZGP323HEH2832G
			Extended	28-DIP	269-3521-ND	3.90	2.93	2.17	ZGP323HEP2832C
			Extended	28-DIP	269-4359-ND◆	3.90	2.93	2.17	ZGP323HEP2832G
			Extended	28-SOIC	269-4371-ND◆	3.45	2.59	1.91	ZGP323HES2832G
			Commercial	28-SSOP	269-3541-ND	3.36	2.52	1.86	ZGP323HSH2832C
			Commercial	28-SSOP	269-4379-ND◆	3.36	2.52	1.86	ZGP323HSH2832G
			Commercial	28-CDIP	269-3547-ND	25.50	19.13	9.35	ZGP323HSK2832E
			Commercial	28-DIP	269-3556-ND	3.81	2.86	2.11	ZGP323HSP2832C
			Commercial	28-DIP	269-4391-ND◆	3.81	2.86	2.11	ZGP323HSP2832G
			Commercial	28-SOIC	269-3568-ND	3.36	2.52	1.86	ZGP323HSS2832C
			Commercial	28-SOIC	269-4403-ND◆	3.36	2.52	1.86	ZGP323HSS2832G
	16	2.0 ~ 3.6V	Automotive	28-SSOP	269-4411-ND◆	3.30	2.48	1.83	ZGP323LAH2832G
			Automotive	28-DIP	269-4423-ND◆	3.75	2.82	2.09	ZGP323LAP2832G
			Automotive	28-SOIC	269-4435-ND◆	3.30	2.48	1.83	ZGP323LAS2832G
			Extended	28-SSOP	269-3576-ND	3.18	2.39	1.77	ZGP323LEH2832C
			Extended	28-SSOP	269-4442-ND◆	3.18	2.39	1.77	ZGP323LEH2832G
			Extended	28-DIP	269-3588-ND	3.66	2.75	2.03	ZGP323LEP2832C
			Extended	28-DIP	269-4454-ND◆	3.66	2.75	2.03	ZGP323LEP2832G
			Extended	28-SOIC	269-3600-ND	3.18	2.39	1.77	ZGP323LES2832C
			Extended	28-SOIC	269-4466-ND◆	3.18	2.39	1.77	ZGP323LES2832G
			Commercial	28-SSOP	269-3608-ND	3.09	2.32	1.71	ZGP323LSH2832C
			Commercial	28-SSOP	269-4474-ND◆	3.09	2.32	1.71	ZGP323LSH2832G
			Commercial	28-CDIP	269-3614-ND	25.50	19.13	9.35	ZGP323LSK2832E
			Commercial	28-DIP	269-3623-ND	3.54	2.66	1.97	ZGP323LSP2832C
			Commercial	28-DIP	269-4486-ND◆	3.54	2.66	1.97	ZGP323LSP2832G
			Commercial	28-SOIC	269-3635-ND	3.24	2.43	1.80	ZGP323LSS2832C
			Commercial	28-SOIC	269-4498-ND◆	3.24	2.43	1.80	ZGP323LSS2832G
	32	2.0 ~ 5.5V	Automotive	40-DIP	269-4331-ND◆	4.38	3.29	2.43	ZGP323HAP4032G
			Extended	40-DIP	269-3525-ND	4.26	3.20	2.37	ZGP323HEP4032C
			Extended	40-DIP	269-4363-ND◆	4.26	3.20	2.37	ZGP323HEP4032G
			Commercial	40-CDIP	269-3548-ND	25.50	19.13	9.35	ZGP323HSK4032E
			Commercial	40-DIP	269-3560-ND	4.17	3.13	2.31	ZGP323HSP4032C
			Commercial	40-DIP	269-4395-ND◆	4.17	3.13	2.31	ZGP323HSP4032G
	32	2.0 ~ 3.6V	Automotive	40-DIP	269-4427-ND◆	4.11	3.09	2.29	ZGP323LAP4032G
			Extended	40-DIP	269-3592-ND	4.02	3.02	2.23	ZGP323LEP4032C
			Extended	40-DIP	269-4458-ND◆	4.02	3.02	2.23	ZGP323LEP4032G
			Commercial	40-CDIP	269-3615-ND	25.50	19.13	9.35	ZGP323LSK4032E
			Commercial	40-DIP	269-3627-ND	3.90	2.93	2.16	ZGP323LSP4032C
			Commercial	40-DIP	269-4490-ND◆	3.90	2.93	2.16	ZGP323LSP4032G
	32	2.0 ~ 5.5V	Automotive	48-SSOP	269-4319-ND◆	3.57	2.68	1.99	ZGP323HAH4832G
			Extended	48-SSOP	269-3513-ND	3.48	2.61	1.93	ZGP323HEH4832C
			Extended	48-SSOP	269-4351-ND◆	3.48	2.61	1.93	ZGP323HEH4832G
			Commercial	48-SSOP	269-3545-ND	3.36	2.52	1.87	ZGP323HSH4832C
			Commercial	48-SSOP	269-4383-ND◆	3.36	2.52	1.87	ZGP323HSH4832G
	32	2.0 ~ 3.6V	Automotive	48-SSOP	269-4415-ND◆	3.30	2.48	1.84	ZGP323LAH4832G
			Extended	48-SSOP	269-3580-ND	3.21	2.41	1.79	ZGP323LEH4832C
			Extended	48-SSOP	269-4446-ND◆	3.21	2.41	1.79	ZGP323LEH4832G
			Commercial	48-SSOP	269-3612-ND	3.12	2.34	1.73	ZGP323LSH4832C
			Commercial	48-SSOP	269-4478-ND◆	3.12	2.34	1.73	ZGP323LSH4832G

◆ ***RoHS Compliant***

zilog Z8 Encore!® Flash Microcontrollers

Zilog redefines 8-bit with the new Z8 Encore! family of flash microcontrollers. Featuring flash memory and the high-performance register-to-register architecture, Z8 Encore! MCU accelerates design development while reducing total system cost. The same CPU core and peripheral interfaces ensure code compatibility across the entire family. Incorporate the Z8 Encore! into new designs or upgrade from the existing Z8 architecture. **Features**: • Program Memory Type: Flash • On-Chip Special Features: POR, VBO • WDT • COMM Interfaces: I2C, UART, OCD

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Counters (16-bit)	Timer/ Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
											1	25	100		
1K	256	6	UART	—	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3745-ND◆	2.40	1.80	1.34	Z8F0113PB005EG	269-3389-ND
								Commercial	8-DIP	269-3746-ND◆	2.19	1.65	1.21	Z8F0113PB005SG	
								Extended	8-QFN	269-3747-ND◆	2.40	1.80	1.34	Z8F0113QB005EG	
								Commercial	8-QFN	269-3748-ND◆	2.19	1.65	1.21	Z8F0113QB005SG	
								Extended	8-SOIC	269-3749-ND◆	2.40	1.80	1.34	Z8F0113SB005EG	
								Commercial	8-SOIC	269-3750-ND◆	2.19	1.65	1.21	Z8F0113SB005SG	
		16	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3430-ND	2.70	2.03	1.50	Z8F0113HH005EC	269-3389-ND
								Extended	20-SSOP	269-3988-ND◆	2.70	2.03	1.50	Z8F0113HH005EG	
								Commercial	20-SSOP	269-3431-ND	2.46	1.85	1.36	Z8F0113HH005SC	
								Commercial	20-SSOP	269-3989-ND◆	2.46	1.85	1.36	Z8F0113HH005SG	
								Extended	20-DIP	269-3434-ND	2.82	2.12	1.57	Z8F0113PH005EC	
								Extended	20-DIP	269-3992-ND◆	2.82	2.12	1.57	Z8F0113PH005EG	
								Commercial	20-DIP	269-3435-ND	2.58	1.94	1.43	Z8F0113PH005SC	
								Commercial	20-DIP	269-3993-ND◆	2.58	1.94	1.43	Z8F0113PH005SG	
								Extended	20-SOIC	269-3438-ND	2.70	2.03	1.50	Z8F0113SH005EC	
								Extended	20-SOIC	269-3996-ND◆	2.70	2.03	1.50	Z8F0113SH005EG	
								Commercial	20-SOIC	269-3439-ND	2.46	1.85	1.36	Z8F0113SH005SC	
								Commercial	20-SOIC	269-3997-ND◆	2.46	1.85	1.36	Z8F0113SH005SG	
		24	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3432-ND	2.70	2.03	1.50	Z8F0113HJ005EC	269-3389-ND
								Extended	28-SSOP	269-3990-ND◆	2.70	2.03	1.50	Z8F0113HJ005EG	
								Commercial	28-SSOP	269-3433-ND	2.46	1.85	1.36	Z8F0113HJ005SC	
								Commercial	28-SSOP	269-3991-ND◆	2.46	1.85	1.36	Z8F0113HJ005SG	
								Extended	28-DIP	269-3994-ND◆	3.00	2.25	1.66	Z8F0113PJ005EG	
								Commercial	28-DIP	269-3437-ND	2.70	2.03	1.50	Z8F0113PJ005SC	
								Commercial	28-DIP	269-3995-ND◆	2.70	2.03	1.50	Z8F0113PJ005SG	
								Extended	28-SOIC	269-3440-ND	2.70	2.03	1.50	Z8F0113SJ005EC	
								Extended	28-SOIC	269-3998-ND◆	2.70	2.03	1.50	Z8F0113SJ005EG	
								Commercial	28-SOIC	269-3441-ND	2.46	1.85	1.36	Z8F0113SJ005SC	
								Commercial	28-SOIC	269-3999-ND◆	2.46	1.85	1.36	Z8F0113SJ005SG	
		6	UART	4-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3753-ND◆	2.55	1.92	1.41	Z8F0123PB005EG	269-3389-ND
								Commercial	8-DIP	269-3754-ND◆	2.31	1.74	1.29	Z8F0123PB005SG	
								Extended	8-QFN	269-3755-ND◆	2.55	1.92	1.41	Z8F0123QB005EG	
								Commercial	8-QFN	269-3756-ND◆	2.31	1.74	1.29	Z8F0123QB005SG	
								Extended	8-SOIC	269-3757-ND◆	2.55	1.92	1.41	Z8F0123SB005EG	
								Commercial	8-SOIC	269-3758-ND◆	2.31	1.74	1.29	Z8F0123SB005SG	
		16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3442-ND	2.82	2.12	1.57	Z8F0123HH005EC	269-3389-ND
								Extended	20-SSOP	269-4016-ND◆	2.82	2.12	1.57	Z8F0123HH005EG	
								Commercial	20-SSOP	269-3443-ND	2.58	1.94	1.43	Z8F0123HH005SC	
								Commercial	20-SSOP	269-4017-ND◆	2.58	1.94	1.43	Z8F0123HH005SG	
								Extended	20-DIP	269-3446-ND	3.00	2.25	1.66	Z8F0123PH005EC	
								Extended	20-DIP	269-4020-ND◆	3.00	2.25	1.66	Z8F0123PH005EG	
								Commercial	20-DIP	269-3447-ND	2.70	2.03	1.50	Z8F0123PH005SC	
								Commercial	20-DIP	269-4021-ND◆	2.70	2.03	1.50	Z8F0123PH005SG	
								Extended	20-SOIC	269-3450-ND	2.82	2.12	1.57	Z8F0123SH005EC	
								Extended	20-SOIC	269-4024-ND◆	2.82	2.12	1.57	Z8F0123SH005EG	
								Commercial	20-SOIC	269-3451-ND	2.58	1.94	1.43	Z8F0123SH005SC	
								Commercial	20-SOIC	269-4025-ND◆	2.58	1.94	1.43	Z8F0123SH005SG	
		22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3444-ND	2.82	2.12	1.57	Z8F0123HJ005EC	269-3389-ND
								Extended	28-SSOP	269-4018-ND◆	2.82	2.12	1.57	Z8F0123HJ005EG	
								Commercial	28-SSOP	269-3445-ND	2.58	1.94	1.43	Z8F0123HJ005SC	
								Commercial	28-SSOP	269-4019-ND◆	2.58	1.94	1.43	Z8F0123HJ005SG	
								Extended	28-DIP	269-3448-ND	3.12	2.34	1.73	Z8F0123PJ005EC	
								Extended	28-DIP	269-4022-ND◆	3.12	2.34	1.73	Z8F0123PJ005EG	
								Commercial	28-DIP	269-3449-ND	2.82	2.12	1.57	Z8F0123PJ005SC	
								Commercial	28-DIP	269-4023-ND◆	2.82	2.12	1.57	Z8F0123PJ005SG	
								Extended	28-SOIC	269-3452-ND	2.82	2.12	1.57	Z8F0123SJ005EC	
								Extended	28-SOIC	269-4026-ND◆	2.82	2.12	1.57	Z8F0123SJ005EG	
								Commercial	28-SOIC	269-3453-ND	2.58	1.94	1.43	Z8F0123SJ005SC	
								Commercial	28-SOIC	269-4027-ND◆	2.58	1.94	1.43	Z8F0123SJ005SG	
2K	512	6	UART	—	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3761-ND◆	2.55	1.92	1.41	Z8F0213PB005EG	269-3389-ND
								Commercial	8-DIP	269-3762-ND◆	2.31	1.74	1.29	Z8F0213PB005SG	
								Extended	8-QFN	269-3763-ND◆	2.55	1.92	1.41	Z8F0213QB005EG	
								Commercial	8-QFN	269-3764-ND◆	2.31	1.74	1.29	Z8F0213QB005SG	
								Extended	8-SOIC	269-3765-ND◆	2.55	1.92	1.41	Z8F0213SB005EG	
								Commercial	8-SOIC	269-3766-ND◆	2.31	1.74	1.29	Z8F0213SB005SG	
		16	1 UART IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-4044-ND◆	2.82	2.12	1.57	Z8F0213HH005EG	269-3389-ND
								Commercial	20-SSOP	269-4045-ND◆	2.58	1.94	1.43	Z8F0213HH005SG	
								Extended	20-DIP	269-3458-ND	3.00	2.25	1.66	Z8F0213PH005EC	
								Extended	20-DIP	269-4048-ND◆	3.00	2.25	1.66	Z8F0213PH005EG	
								Commercial	20-DIP	269-3459-ND	2.70	2.03	1.50	Z8F0213PH005SC	
								Commercial	20-DIP	269-4049-ND◆	2.70	2.03	1.50	Z8F0213PH005SG	
								Extended	20-SOIC	269-3462-ND	2.82	2.12	1.57	Z8F0213SH005EC	
								Extended	20-SOIC	269-4052-ND◆	2.82	2.12	1.57	Z8F0213SH005EG	
								Commercial	20-SOIC	269-3463-ND	2.58	1.94	1.43	Z8F0213SH005SC	
								Commercial	20-SOIC	269-4053-ND◆	2.58	1.94	1.43	Z8F0213SH005SG	
		24	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3456-ND	2.82	2.12	1.57	Z8F0213HJ005EC	269-3389-ND
								Extended	28-SSOP	269-4046-ND◆	2.82	2.12	1.57	Z8F0213HJ005EG	
								Commercial	28-SSOP	269-3457-ND	2.58	1.94	1.43	Z8F0213HJ005SC	
								Commercial	28-SSOP	269-4047-ND◆	2.58	1.94	1.43	Z8F0213HJ005SG	
								Extended	28-DIP	269-3460-ND	3.75	2.82	1.78	Z8F0213PJ005EC	
								Extended	28-DIP	269-4050-ND◆	3.12	2.34	1.73	Z8F0213PJ005EG	
								Commercial	28-DIP	269-3461-ND	3.57	2.68	1.70	Z8F0213PJ005SC	
								Commercial	28-DIP	269-4051-ND◆	2.82	2.12	1.57	Z8F0213PJ005SG	
								Extended	28-SOIC	269-3464-ND	2.82	2.12	1.57	Z8F0213SJ005EC	
								Extended	28-SOIC	269-4054-ND◆	2.82	2.12	1.57	Z8F0213SJ005EG	
								Commercial	28-SOIC	269-3465-ND	2.58	1.94	1.43	Z8F0213SJ005SC	
								Commercial	28-SOIC	269-4055-ND◆	2.58	1.94	1.43	Z8F0213SJ005SG	
		6	UART	4-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3769-ND◆	2.70	2.03	1.50	Z8F0223PB005EG	269-3389-ND
								Commercial	8-DIP	269-3770-ND◆	2.46	1.85	1.36	Z8F0223PB005SG	
								Extended	8-QFN	269-3771-ND◆	2.70	2.03	1.50	Z8F0223QB005EG	
								Commercial	8-QFN	269-3772-ND◆	2.46	1.85	1.36	Z8F0223QB005SG	
								Extended	8-SOIC	269-3773-ND◆	2.70	2.03	1.50	Z8F0223SB005EG	
								Commercial	8-SOIC	269-3774-ND◆	2.46	1.85	1.36	Z8F0223SB005SG	

◆ ***RoHS Compliant*** **Note: Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

(Continued)

zilog Z8 Encore!® Flash Microcontrollers *(Cont.)*

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Counters (16-bit)	Timer/ Operating Temp.	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Zilog Part No.	Development Tools
2K	512	16	1 UART IrDA	7-ch 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-4072-ND◆	3.00	2.25	1.66	Z8F0223HH005EG	269-3389-ND
								Commercial	20-SSOP	269-4073-ND◆	2.70	2.03	1.50	Z8F0223HH005SG	
								Extended	20-DIP	269-3470-ND	3.12	2.34	1.73	Z8F0223PH005EC	
								Extended	20-DIP	269-4076-ND◆	3.12	2.34	1.73	Z8F0223PH005EG	
								Commercial	20-DIP	269-3471-ND	2.82	2.12	1.57	Z8F0223PH005SC	
								Commercial	20-DIP	269-4077-ND◆	2.82	2.12	1.57	Z8F0223PH005SG	
								Extended	20-SOIC	269-3474-ND	3.00	2.25	1.66	Z8F0223SH005EC	
								Extended	20-SOIC	269-4080-ND◆	3.00	2.25	1.66	Z8F0223SH005EG	
								Commercial	20-SOIC	269-3475-ND	2.70	2.03	1.50	Z8F0223SH005SC	
								Commercial	20-SOIC	269-4081-ND◆	2.70	2.03	1.50	Z8F0223SH005SG	
		22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3468-ND	3.00	2.25	1.66	Z8F0223HJ005EC	269-3389-ND
								Extended	28-SSOP	269-4074-ND◆	3.00	2.25	1.66	Z8F0223HJ005EG	
								Commercial	28-SSOP	269-3469-ND	2.70	2.03	1.50	Z8F0223HJ005SC	
								Commercial	28-SSOP	269-4075-ND◆	2.70	2.03	1.50	Z8F0223HJ005SG	
								Extended	28-DIP	269-3472-ND	3.27	2.46	1.81	Z8F0223PJ005EC	
								Extended	28-DIP	269-4078-ND◆	3.27	2.46	1.81	Z8F0223PJ005EG	
								Commercial	28-DIP	269-3473-ND	2.94	2.21	1.64	Z8F0223PJ005SC	
								Commercial	28-DIP	269-4079-ND◆	2.94	2.21	1.64	Z8F0223PJ005SG	
								Extended	28-SOIC	269-3476-ND	3.00	2.25	1.66	Z8F0223SJ005EC	
								Extended	28-SOIC	269-4082-ND◆	3.00	2.25	1.66	Z8F0223SJ005EG	
								Commercial	28-SOIC	269-3477-ND	2.70	2.03	1.50	Z8F0223SJ005SC	
								Commercial	28-SOIC	269-4083-ND◆	2.70	2.03	1.50	Z8F0223SJ005SG	
4K	1K	11	UART, I^{2}C, IrDA	—	2.7 ~ 3.6V	20MHz	2	Extended	20-DIP	269-3208-ND	3.39	2.55	1.89	Z8F0411PH020EC	269-3183-ND
								Extended	20-DIP	269-4102-ND◆	3.39	2.55	1.89	Z8F0411PH020EG	
								Commercial	20-DIP	269-3209-ND	3.09	2.32	1.71	Z8F0411PH020SC	
								Commercial	20-DIP	269-4103-ND◆	3.09	2.32	1.71	Z8F0411PH020SG	
								Extended	20-SSOP	269-3206-ND	3.39	2.55	1.89	Z8F0411HH020EC	
								Extended	20-SSOP	269-4100-ND◆	3.39	2.55	1.89	Z8F0411HH020EG	
								Commercial	20-SSOP	269-3207-ND	3.09	2.32	1.71	Z8F0411HH020SC	
								Commercial	20-SSOP	269-4101-ND◆	3.09	2.32	1.71	Z8F0411HH020SG	
		19	UART, I^{2}C, SPI, IrDA	—	2.7 ~ 3.6V	20MHz	2	Extended	28-DIP	269-3210-ND	4.11	3.09	2.29	Z8F0412PJ020EC	269-3183-ND
								Extended	28-DIP	269-4104-ND◆	4.11	3.09	2.29	Z8F0412PJ020EG	
								Commercial	28-DIP	269-4105-ND◆	3.75	2.82	2.09	Z8F0412PJ020SG	
								Extended	28-SOIC	269-3212-ND	3.60	2.70	2.00	Z8F0412SJ020EC	
								Extended	28-SOIC	269-4106-ND◆	3.60	2.70	2.00	Z8F0412SJ020EG	
								Commercial	28-SOIC	269-3213-ND	3.27	2.46	1.81	Z8F0412SJ020SC	
								Commercial	28-SOIC	269-4107-ND◆	3.27	2.46	1.81	Z8F0412SJ020SG	
		6	UART	—	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3777-ND◆	2.70	2.03	1.50	Z8F0413PB005EG	269-3389-ND
								Commercial	8-DIP	269-3778-ND◆	2.46	1.85	1.36	Z8F0413PB005SG	
								Extended	8-QFN	269-3779-ND◆	2.70	2.03	1.50	Z8F0413QB005EG	
								Commercial	8-QFN	269-3780-ND◆	2.46	1.85	1.36	Z8F0413QB005SG	
								Extended	8-SOIC	269-3781-ND◆	2.70	2.03	1.50	Z8F0413SB005EG	
								Commercial	8-SOIC	269-3782-ND◆	2.46	1.85	1.36	Z8F0413SB005SG	
		16	1 UART IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-4108-ND◆	3.00	2.25	1.66	Z8F0413HH005EG	269-3389-ND
								Commercial	20-SSOP	269-4109-ND◆	2.70	2.03	1.50	Z8F0413HH005SG	
								Extended	20-DIP	269-3482-ND	3.12	2.34	1.73	Z8F0413PH005EC	
								Extended	20-DIP	269-4112-ND◆	3.12	2.34	1.73	Z8F0413PH005EG	
								Commercial	20-DIP	269-3483-ND	2.82	2.12	1.57	Z8F0413PH005SC	
								Commercial	20-DIP	269-4113-ND◆	2.82	2.12	1.57	Z8F0413PH005SG	
								Extended	20-SOIC	269-3486-ND	3.00	2.25	1.66	Z8F0413SH005EC	
								Extended	20-SOIC	269-4116-ND◆	3.00	2.25	1.66	Z8F0413SH005EG	
								Commercial	20-SOIC	269-3487-ND	2.70	2.03	1.50	Z8F0413SH005SC	
								Commercial	20-SOIC	269-4117-ND◆	2.70	2.03	1.50	Z8F0413SH005SG	
		24	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3480-ND	3.00	2.25	1.66	Z8F0413HJ005EC	269-3389-ND
								Extended	28-SSOP	269-4110-ND◆	3.00	2.25	1.66	Z8F0413HJ005EG	
								Commercial	28-SSOP	269-3481-ND	2.70	2.03	1.50	Z8F0413HJ005SC	
								Commercial	28-SSOP	269-4111-ND◆	2.70	2.03	1.50	Z8F0413HJ005SG	
								Extended	28-DIP	269-4114-ND◆	3.39	2.55	1.89	Z8F0413PJ005EG	
								Commercial	28-DIP	269-4115-ND◆	3.09	2.32	1.71	Z8F0413PJ005SG	
								Extended	28-SOIC	269-3488-ND	3.00	2.25	1.66	Z8F0413SJ005EC	
								Extended	28-SOIC	269-4118-ND◆	3.00	2.25	1.66	Z8F0413SJ005EG	
								Commercial	28-SOIC	269-3489-ND	2.70	2.03	1.50	Z8F0413SJ005SC	
								Commercial	28-SOIC	269-4119-ND◆	2.70	2.03	1.50	Z8F0413SJ005SG	
		11	UART, I^{2}C, IrDA	2-ch. 10-bit	2.7 ~ 3.6V	20MHz	2	Extended	20-DIP	269-3216-ND	3.84	2.88	2.13	Z8F0421PH020EC	269-3183-ND
								Extended	20-DIP	269-4138-ND◆	3.84	2.88	2.13	Z8F0421PH020EG	
								Commercial	20-DIP	269-3217-ND	3.48	2.61	1.93	Z8F0421PH020SC	
								Commercial	20-DIP	269-4139-ND◆	3.48	2.61	1.93	Z8F0421PH020SG	
								Extended	20-SSOP	269-3214-ND	3.84	2.88	2.13	Z8F0421HH020EC	
								Extended	20-SSOP	269-4136-ND◆	3.84	2.88	2.13	Z8F0421HH020EG	
								Commercial	20-SSOP	269-3215-ND	3.48	2.61	1.93	Z8F0421HH020SC	
								Commercial	20-SSOP	269-4137-ND◆	3.48	2.61	1.93	Z8F0421HH020SG	
		19	UART, I^{2}C, SPI, IrDA	5-ch. 10-bit	2.7 ~ 3.6V	20MHz	2	Extended	28-DIP	269-4140-ND◆	4.26	3.20	2.37	Z8F0422PJ020EG	269-3183-ND
								Commercial	28-DIP	269-3219-ND	3.90	2.93	2.16	Z8F0422PJ020SC	
								Commercial	28-DIP	269-4141-ND◆	3.90	2.93	2.16	Z8F0422PJ020SG	
								Extended	28-SOIC	269-3220-ND	3.96	2.97	2.20	Z8F0422SJ020EC	
								Extended	28-SOIC	269-4142-ND◆	3.96	2.97	2.20	Z8F0422SJ020EG	
								Commercial	28-SOIC	269-4143-ND◆	3.60	2.70	2.00	Z8F0422SJ020SG	
		6	UART	4-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3785-ND◆	2.82	2.12	1.57	Z8F0423PB005EG	269-3389-ND
								Commercial	8-DIP	269-3731-ND◆	2.58	1.94	1.43	Z8F0423PB005SG	
								Extended	8-QFN	269-3786-ND◆	2.82	2.12	1.57	Z8F0423QB005EG	
								Commercial	8-QFN	269-3787-ND◆	2.58	1.94	1.43	Z8F0423QB005SG	
								Extended	8-SOIC	269-3788-ND◆	2.82	2.12	1.57	Z8F0423SB005EG	
								Commercial	8-SOIC	269-3732-ND◆	2.58	1.94	1.43	Z8F0423SB005SG	
		16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-4144-ND◆	3.12	2.34	1.73	Z8F0423HH005EG	269-3389-ND
								Commercial	20-SSOP	269-3491-ND	2.82	2.12	1.57	Z8F0423HH005SC	
								Commercial	20-SSOP	269-4145-ND◆	2.82	2.12	1.57	Z8F0423HH005SG	
								Extended	20-DIP	269-4148-ND◆	3.27	2.46	1.81	Z8F0423PH005EG	
								Commercial	20-DIP	269-3495-ND	2.94	2.21	1.64	Z8F0423PH005SC	
								Commercial	20-DIP	269-4149-ND◆	2.94	2.21	1.64	Z8F0423PH005SG	
								Extended	20-SOIC	269-3498-ND	3.12	2.34	1.73	Z8F0423SH005EC	
								Extended	20-SOIC	269-4152-ND◆	3.12	2.34	1.73	Z8F0423SH005EG	
								Commercial	20-SOIC	269-3499-ND	2.82	2.12	1.57	Z8F0423SH005SC	
								Commercial	20-SOIC	269-4153-ND◆	2.82	2.12	1.57	Z8F0423SH005SG	

◆ ***RoHS Compliant*** **Note: Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

(Continued)

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Counters (16-bit)	Timer/ Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
											1	25	100		
4K	1K	22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3492-ND	3.12	2.34	1.73	Z8F0423HJ005EC	269-3389-ND
								Extended	28-SSOP	269-4146-ND◆	3.12	2.34	1.73	Z8F0423HJ005EG	
								Commercial	28-SSOP	269-3493-ND	2.82	2.12	1.57	Z8F0423HJ005SC	
								Commercial	28-SSOP	269-4147-ND◆	2.82	2.12	1.57	Z8F0423HJ005SG	
								Extended	28-DIP	269-3496-ND	3.39	2.55	1.89	Z8F0423PJ005EC	
								Extended	28-DIP	269-4150-ND◆	3.39	2.55	1.89	Z8F0423PJ005EG	
								Commercial	28-DIP	269-3497-ND	3.09	2.32	1.71	Z8F0423PJ005SC	
								Commercial	28-DIP	269-4151-ND◆	3.09	2.32	1.71	Z8F0423PJ005SG	
								Extended	28-SOIC	269-3500-ND	3.12	2.34	1.73	Z8F0423SJ005EC	
								Extended	28-SOIC	269-4154-ND◆	3.12	2.34	1.73	Z8F0423SJ005EG	
								Commercial	28-SOIC	269-3501-ND	2.82	2.12	1.57	Z8F0423SJ005SC	
								Commercial	28-SOIC	269-4155-ND◆	2.82	2.12	1.57	Z8F0423SJ005SG	
8K	1K	11	UART, I^2C, IrDA	—	2.7 ~ 3.6V	20MHz	2	Extended	20-DIP	269-3224-ND	3.54	2.66	1.97	Z8F0811PH020EC	269-3183-ND
								Extended	20-DIP	269-4174-ND◆	3.54	2.66	1.97	Z8F0811PH020EG	
								Commercial	20-DIP	269-3225-ND	3.21	2.41	1.79	Z8F0811PH020SC	
								Commercial	20-DIP	269-4175-ND◆	3.21	2.41	1.79	Z8F0811PH020SG	
								Extended	20-SSOP	269-3222-ND	3.54	2.66	1.97	Z8F0811HH020EC	
								Extended	20-SSOP	269-4172-ND◆	3.54	2.66	1.97	Z8F0811HH020EG	
								Commercial	20-SSOP	269-4173-ND◆	3.21	2.41	1.79	Z8F0811HH020SG	
		19	UART, I^2C, SPI, IrDA	—	2.7 ~ 3.6V	20MHz	2	Extended	28-DIP	269-3226-ND	4.14	3.11	2.30	Z8F0812PJ020EC	269-3183-ND
								Extended	28-DIP	269-4176-ND◆	4.14	3.11	2.30	Z8F0812PJ020EG	
								Commercial	28-DIP	269-3227-ND	3.75	2.82	2.09	Z8F0812PJ020SC	
								Commercial	28-DIP	269-4177-ND◆	3.75	2.82	2.09	Z8F0812PJ020SG	
								Extended	28-SOIC	269-3228-ND	3.84	2.88	2.13	Z8F0812SJ020EC	
								Extended	28-SOIC	269-4178-ND◆	3.84	2.88	2.13	Z8F0812SJ020EG	
								Commercial	28-SOIC	269-3229-ND	3.48	2.61	1.93	Z8F0812SJ020SC	
								Commercial	28-SOIC	269-4179-ND◆	3.48	2.61	1.93	Z8F0812SJ020SG	
		6	UART	—	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3791-ND◆	3.00	2.25	1.66	Z8F0813PB005EG	269-3686-ND
								Commercial	8-DIP	269-3792-ND◆	2.70	2.03	1.50	Z8F0813PB005SG	
								Extended	8-QFN	269-3793-ND◆	3.00	2.25	1.66	Z8F0813QB005EG	
								Commercial	8-QFN	269-3794-ND◆	2.70	2.03	1.50	Z8F0813QB005SG	
								Extended	8-SOIC	269-3795-ND◆	3.00	2.25	1.66	Z8F0813SB005EG	
								Commercial	8-SOIC	269-3796-ND◆	2.70	2.03	1.50	Z8F0813SB005SG	
		16	UART	—	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3713-ND	3.27	2.46	1.81	Z8F0813HH005EC	269-3686-ND
								Extended	20-SSOP	269-4180-ND◆	3.27	2.46	1.81	Z8F0813HH005EG	
								Commercial	20-SSOP	269-3714-ND	2.94	2.21	1.64	Z8F0813HH005SC	
								Commercial	20-SSOP	269-4181-ND◆	2.94	2.21	1.64	Z8F0813HH005SG	
								Extended	20-DIP	269-3717-ND	3.39	2.55	1.89	Z8F0813PH005EC	
								Extended	20-DIP	269-4183-ND◆	3.39	2.55	1.89	Z8F0813PH005EG	
								Commercial	20-DIP	269-3718-ND	3.09	2.32	1.71	Z8F0813PH005SC	
								Commercial	20-DIP	269-4184-ND◆	3.09	2.32	1.71	Z8F0813PH005SG	
								Extended	20-SOIC	269-3721-ND	3.27	2.46	1.81	Z8F0813SH005EC	
								Extended	20-SOIC	269-4187-ND◆	3.27	2.46	1.81	Z8F0813SH005EG	
								Commercial	20-SOIC	269-3722-ND	2.94	2.21	1.64	Z8F0813SH005SC	
								Commercial	20-SOIC	269-4188-ND◆	2.94	2.21	1.64	Z8F0813SH005SG	
		24	UART	—	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3715-ND	3.27	2.46	1.81	Z8F0813HJ005EC	269-3686-ND
								Extended	28-SSOP	269-4182-ND◆	3.27	2.46	1.81	Z8F0813HJ005EG	
								Commercial	28-SSOP	269-3716-ND	2.94	2.21	1.64	Z8F0813HJ005SC	
								Commercial	28-SSOP	269-4527-ND◆	2.94	2.21	1.64	Z8F0813HJ005SG	
								Extended	28-DIP	269-3719-ND	3.66	2.75	2.04	Z8F0813PJ005EC	
								Extended	28-DIP	269-4185-ND◆	3.66	2.75	2.04	Z8F0813PJ005EG	
								Commercial	28-DIP	269-4186-ND◆	3.36	2.52	1.86	Z8F0813PJ005SG	
								Extended	28-SOIC	269-3723-ND	3.27	2.46	1.81	Z8F0813SJ005EC	
								Extended	28-SOIC	269-4189-ND◆	3.27	2.46	1.81	Z8F0813SJ005EG	
								Commercial	28-SOIC	269-4190-ND◆	2.94	2.21	1.64	Z8F0813SJ005SG	
		11	UART, I^2C, IrDA	2-ch. 10-bit	2.7 ~ 3.6V	20MHz	2	Extended	20-DIP	269-3232-ND	3.96	2.97	2.20	Z8F0821PH020EC	269-3183-ND
								Extended	20-DIP	269-4205-ND◆	3.96	2.97	2.20	Z8F0821PH020EG	
								Commercial	20-DIP	269-3233-ND	3.60	2.70	2.00	Z8F0821PH020SC	
								Commercial	20-DIP	269-4206-ND◆	3.60	2.70	2.00	Z8F0821PH020SG	
								Extended	20-SSOP	269-3230-ND	3.96	2.97	2.20	Z8F0821HH020EC	
								Extended	20-SSOP	269-4203-ND◆	3.96	2.97	2.20	Z8F0821HH020EG	
								Commercial	20-SSOP	269-3231-ND	3.60	2.70	2.00	Z8F0821HH020SC	
								Commercial	20-SSOP	269-4204-ND◆	3.60	2.70	2.00	Z8F0821HH020SG	
		19	UART, I^2C, SPI, IrDA	5-ch. 10-bit	2.7 ~ 3.6V	20MHz	2	Extended	28-DIP	269-4207-ND◆	4.44	3.33	2.46	Z8F0822PJ020EG	269-3183-ND
								Commercial	28-DIP	269-3235-ND	4.02	3.02	2.23	Z8F0822PJ020SC	
								Commercial	28-DIP	269-4208-ND◆	4.02	3.02	2.23	Z8F0822PJ020SG	
								Extended	28-SOIC	269-4209-ND◆	4.11	3.09	2.29	Z8F0822SJ020EG	
								Commercial	28-SOIC	269-4210-ND◆	3.72	2.79	2.07	Z8F0822SJ020SG	
		6	UART	4-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3803-ND◆	3.12	2.34	1.73	Z8F0823PB005EG	269-3686-ND
								Commercial	8-DIP	269-3733-ND◆	2.82	2.12	1.57	Z8F0823PB005SG	
								Extended	8-QFN	269-3804-ND◆	3.12	2.34	1.73	Z8F0823QB005EG	
								Commercial	8-QFN	269-3805-ND◆	2.82	2.12	1.57	Z8F0823QB005SG	
								Extended	8-SOIC	269-3806-ND◆	3.12	2.34	1.73	Z8F0823SB005EG	
								Commercial	8-SOIC	269-3734-ND◆	2.82	2.12	1.57	Z8F0823SB005SG	
		16	UART	7-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3725-ND	3.39	2.55	1.89	Z8F0823HH005EC	269-3686-ND
								Extended	20-SSOP	269-4211-ND◆	3.39	2.55	1.89	Z8F0823HH005EG	
								Commercial	20-SSOP	269-3687-ND	3.09	2.32	1.71	Z8F0823HH005SC	
								Commercial	20-SSOP	269-4212-ND◆	3.09	2.32	1.71	Z8F0823HH005SG	
								Extended	20-DIP	269-3727-ND	3.54	2.66	1.97	Z8F0823PH005EC	
								Extended	20-DIP	269-4215-ND◆	3.54	2.66	1.97	Z8F0823PH005EG	
								Commercial	20-DIP	269-3689-ND	3.21	2.41	1.79	Z8F0823PH005SC	
								Commercial	20-DIP	269-4216-ND◆	3.21	2.41	1.79	Z8F0823PH005SG	
								Extended	20-SOIC	269-3729-ND	3.39	2.55	1.89	Z8F0823SH005EC	
								Extended	20-SOIC	269-4219-ND◆	3.39	2.55	1.89	Z8F0823SH005EG	
								Commercial	20-SOIC	269-3691-ND	3.09	2.32	1.71	Z8F0823SH005SC	
								Commercial	20-SOIC	269-4220-ND◆	3.09	2.32	1.71	Z8F0823SH005SG	
		22	UART	8-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-4213-ND◆	3.39	2.55	1.89	Z8F0823HJ005EG	269-3686-ND
								Commercial	28-SSOP	269-3688-ND	3.09	2.32	1.71	Z8F0823HJ005SC	
								Commercial	28-SSOP	269-4214-ND◆	3.09	2.32	1.71	Z8F0823HJ005SG	
								Extended	28-DIP	269-3728-ND	3.84	2.88	2.13	Z8F0823PJ005EC	
								Extended	28-DIP	269-4217-ND◆	3.84	2.88	2.13	Z8F0823PJ005EG	
								Commercial	28-DIP	269-3690-ND	3.48	2.61	1.93	Z8F0823PJ005SC	
								Commercial	28-DIP	269-4218-ND◆	3.48	2.61	1.93	Z8F0823PJ005SG	
								Extended	28-SOIC	269-3730-ND	3.39	2.55	1.89	Z8F0823SJ005EC	
								Extended	28-SOIC	269-4221-ND◆	3.39	2.55	1.89	Z8F0823SJ005EG	
								Commercial	28-SOIC	269-3692-ND	3.09	2.32	1.71	Z8F0823SJ005SC	
								Commercial	28-SOIC	269-4222-ND◆	3.09	2.32	1.71	Z8F0823SJ005SG	

◆ ***RoHS Compliant*** **Note: Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

(Continued)

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Counters (16-bit)	Timer/ Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
											1	25	100		
16K	2K	31	2 UARTS, I^2C SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	44-PLCC	269-3195-ND	12.69	9.52	7.05	Z8F1601VN020EC	—
								Commercial	44-LQFP	269-3127-ND	11.49	8.62	6.38	Z8F1601AN020SC	
		31	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	44-LQFP	269-4234-ND◆	5.97	4.48	3.31	Z8F1621AN020EG	269-3249-ND
								Commercial	44-LQFP	269-4235-ND◆	5.37	4.03	2.99	Z8F1621AN020SG	
								Extended	40-DIP	269-4236-ND◆	6.24	4.68	3.46	Z8F1621PM020EG	
								Commercial	40-DIP	269-4237-ND◆	5.64	4.23	3.13	Z8F1621PM020SG	
								Extended	44-PLCC	269-4238-ND◆	5.97	4.48	3.31	Z8F1621VN020EG	
								Commercial	44-PLCC	269-4239-ND◆	5.37	4.03	2.99	Z8F1621VN020SG	
		46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3259-ND	6.24	4.68	3.46	Z8F1622AR020EC	269-3249-ND
								Extended	64-LQFP	269-4240-ND◆	6.24	4.68	3.46	Z8F1622AR020EG	
								Commercial	64-LQFP	269-3260-ND	5.64	4.23	3.13	Z8F1622AR020SC	
								Commercial	64-LQFP	269-4241-ND◆	5.64	4.23	3.13	Z8F1622AR020SG	
								Commercial	64-LQFP	269-3640-ND	6.87	5.16	3.44	Z8F1622AR020SC2104	
								Extended	68-PLCC	269-4242-ND◆	6.24	4.68	3.46	Z8F1622VS020EG	
								Commercial	68-PLCC	269-4243-ND◆	5.64	4.23	3.13	Z8F1622VS020SG	
24K	2K	31	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	44-LQFP	269-4244-ND◆	6.24	4.68	3.46	Z8F2421AN020EG	269-3249-ND
								Commercial	44-LQFP	269-4245-ND◆	5.64	4.23	3.13	Z8F2421AN020SG	
								Extended	40-DIP	269-4246-ND◆	6.48	4.86	3.60	Z8F2421PM020EG	
								Commercial	40-DIP	269-4247-ND◆	5.88	4.41	3.27	Z8F2421PM020SG	
								Extended	44-PLCC	269-4248-ND◆	6.24	4.68	3.46	Z8F2421VN020EG	
								Commercial	44-PLCC	269-4249-ND◆	5.64	4.23	3.13	Z8F2421VN020SG	
24K	2K	46	2 UARTS, I^2C, SPI	12-ch 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-4250-ND◆	6.48	4.86	3.60	Z8F2422AR020EG	269-3249-ND
								Commercial	64-LQFP	269-4251-ND◆	5.88	4.41	3.27	Z8F2422AR020SG	
								Extended	68-PLCC	269-4252-ND◆	6.48	4.86	3.60	Z8F2422VS020EG	
								Commercial	68-PLCC	269-4253-ND◆	5.88	4.41	3.27	Z8F2422VS020SG	
32K	2K	46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Commercial	64-LQFP	269-3140-ND	14.64	10.98	8.14	Z8F3202AR020SC	—
		31	2 UARTS, I^2C, SPI	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	44-LQFP	269-4254-ND◆	6.48	4.86	3.60	Z8F3221AN020EG	269-3249-ND
								Commercial	44-LQFP	269-4255-ND◆	5.88	4.41	3.27	Z8F3221AN020SG	
								Extended	40-DIP	269-4256-ND◆	6.72	5.04	3.74	Z8F3221PM020EG	
								Commercial	40-DIP	269-4257-ND◆	6.15	4.62	3.41	Z8F3221PM020SG	
								Extended	44-PLCC	269-4258-ND◆	6.48	4.86	3.60	Z8F3221VN020EG	
								Commercial	44-PLCC	269-4259-ND◆	5.88	4.41	3.27	Z8F3221VN020SG	
		46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3279-ND	6.72	5.04	3.74	Z8F3222AR020EC	269-3249-ND
								Extended	64-LQFP	269-4260-ND◆	6.72	5.04	3.74	Z8F3222AR020EG	
								Commercial	64-LQFP	269-3280-ND	6.15	4.62	3.41	Z8F3222AR020SC	
								Commercial	64-LQFP	269-4261-ND◆	6.15	4.62	3.41	Z8F3222AR020SG	
								Extended	68-PLCC	269-4262-ND◆	6.72	5.04	3.74	Z8F3222VS020EG	
								Commercial	68-PLCC	269-4263-ND◆	6.15	4.62	3.41	Z8F3222VS020SG	
48K	4K	46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Commercial	64-LQFP	269-3145-ND	16.44	12.33	9.13	Z8F4802AR020SC	—
		31	2 UARTS, I_2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	44-LQFP	269-3283-ND	7.44	5.58	4.13	Z8F4821AN020EC	269-3249-ND
								Commercial	44-LQFP	269-4265-ND◆	6.72	5.04	3.73	Z8F4821AN020SG	
								Extended	40-DIP	269-4266-ND◆	7.71	5.79	4.29	Z8F4821PM020EG	
								Commercial	40-DIP	269-4267-ND◆	6.96	5.22	3.87	Z8F4821PM020SG	
								Extended	44-PLCC	269-4268-ND◆	7.44	5.58	4.13	Z8F4821VN020EG	
		46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-4270-ND◆	7.71	5.79	4.29	Z8F4822AR020EG	
								Commercial	64-LQFP	269-3290-ND	6.96	5.22	3.87	Z8F4822AR020SC	
								Extended	68-PLCC	269-4272-ND◆	7.71	5.79	4.29	Z8F4822VS020EG	
								Commercial	68-PLCC	269-4273-ND◆	6.96	5.22	3.87	Z8F4822VS020SG	
		60	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	80-QFP	269-4274-ND◆	7.77	5.83	4.31	Z8F4823FT020EG	—
64K	4K	31	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	44-LQFP	269-3181-ND	19.44	14.58	10.80	Z8F6401AN020EC	—
		46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3203-ND	20.01	15.01	11.12	Z8F6402AR020EC	—
								Commercial	68-PLCC	269-3152-ND	18.33	13.75	10.18	Z8F6402VS020SC	
		31	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	44-LQFP	269-4276-ND◆	7.95	5.97	4.41	Z8F6421AN020EG	269-3249-ND
								Commercial	44-LQFP	269-3296-ND	7.23	5.43	4.01	Z8F6421AN020SC	
								Commercial	44-LQFP	269-4277-ND◆	7.23	5.43	4.01	Z8F6421AN020SG	
								Extended	40-DIP	269-4278-ND◆	8.22	6.17	4.57	Z8F6421PM020EG	
								Commercial	40-DIP	269-4279-ND◆	7.50	5.63	4.16	Z8F6421PM020SG	
								Extended	44-PLCC	269-4280-ND◆	7.95	5.97	4.41	Z8F6421VN020EG	
								Commercial	44-PLCC	269-4281-ND◆	7.23	5.43	4.01	Z8F6421VN020SG	
		46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	64-LQFP	269-3301-ND	12.36	9.27	6.18	Z8F6422AR020EC	269-3249-ND
								Extended	64-LQFP	269-4282-ND◆	8.22	6.17	4.57	Z8F6422AR020EG	
								Commercial	64-LQFP	269-4283-ND◆	7.50	5.63	4.16	Z8F6422AR020SG	
								Extended	68-PLCC	269-3303-ND	8.22	6.17	4.57	Z8F6422VS020EC	
								Extended	68-PLCC	269-4284-ND◆	8.22	6.17	4.57	Z8F6422VS020EG	
								Commercial	68-PLCC	269-4285-ND◆	7.50	5.63	4.16	Z8F6422VS020SG	
		60	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Extended	80-QFP	269-4286-ND◆	8.22	6.17	4.57	Z8F6423FT020EG	269-3249-ND
								Commercial	80-QFP	269-4287-ND◆	7.50	5.63	4.16	Z8F6423FT020SG	

◆ ***RoHS Compliant*** **Note: Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

zilog Z8 Encore! XP® Flash Microcontrollers 4K Series

The Z8 Encore!® MCU family of products are the first in a line of Zilog microcontroller products based upon the 8-bit eZ8 CPU. The Z8 Encore! XP 4K Series products expand upon Zilog's extensive line of 8-bit microcontrollers. The Flash in-circuit programming capability allows for faster development time and program changes in the field. The new eZ8 CPU is upward compatible with existing Z8 instructions. The rich peripheral set of the Z8 Encore! family makes it suitable for a variety of applications including motor control, security systems, home appliances, personal electronic devices and sensors. **Features:** • Program Memory Type: Flash • On-Chip Special Features: POR, VBO, Temperature Sensor, Analog Comparator, Current Sense Amplifier, up to 18 vectored interrupts • WDT • COMM Interfaces: UART, OCD • Operating Temperature: Extended -40°C ~ 105° C, Commercial 0°C ~ 70°C

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	NVDS (Bytes)	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
												1	25	100		
1K	256	6	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3642-ND	2.64	1.98	1.46	Z8F011APB020EC	269-3307-ND, 269-3638-ND
									Extended	8-DIP	269-4004-ND◆	2.64	1.98	1.46	Z8F011APB020EG	
									Commercial	8-DIP	269-3643-ND	2.40	1.80	1.33	Z8F011APB020SC	
									Commercial	8-DIP	269-4005-ND◆	2.40	1.80	1.33	Z8F011APB020SG	
									Extended	8-QFN	269-3751-ND◆	2.64	1.98	1.46	Z8F011AQB020EG	
									Commercial	8-QFN	269-3752-ND◆	2.40	1.80	1.33	Z8F011AQB020SG	
									Extended	8-SOIC	269-3646-ND	2.64	1.98	1.46	Z8F011ASB020EC	
									Extended	8-SOIC	269-4010-ND◆	2.64	1.98	1.46	Z8F011ASB020EG	
									Commercial	8-SOIC	269-3647-ND	2.40	1.80	1.33	Z8F011ASB020SC	
									Commercial	8-SOIC	269-4011-ND◆	2.40	1.80	1.33	Z8F011ASB020SG	
		17	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3308-ND	3.00	2.25	1.66	Z8F011AHH020EC	269-3307-ND, 269-3638-ND
									Extended	20-SSOP	269-4000-ND◆	3.00	2.25	1.66	Z8F011AHH020EG	
									Commercial	20-SSOP	269-3309-ND	2.70	2.03	1.50	Z8F011AHH020SC	
									Commercial	20-SSOP	269-4001-ND◆	2.70	2.03	1.50	Z8F011AHH020SG	
									Extended	20-DIP	269-3312-ND	3.00	2.25	1.66	Z8F011APH020EC	
									Extended	20-DIP	269-4006-ND◆	3.00	2.25	1.66	Z8F011APH020EG	
									Commercial	20-DIP	269-3313-ND	2.70	2.03	1.50	Z8F011APH020SC	
									Commercial	20-DIP	269-4007-ND◆	2.70	2.03	1.50	Z8F011APH020SG	
									Extended	20-SOIC	269-3316-ND	3.00	2.25	1.66	Z8F011ASH020EC	
									Extended	20-SOIC	269-4012-ND◆	3.00	2.25	1.66	Z8F011ASH020EG	
									Commercial	20-SOIC	269-3317-ND	2.70	2.03	1.50	Z8F011ASH020SC	
									Commercial	20-SOIC	269-4013-ND◆	2.70	2.03	1.50	Z8F011ASH020SG	
		25	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3310-ND	3.00	2.25	1.66	Z8F011AHJ020EC	269-3307-ND, 269-3638-ND
									Extended	28-SSOP	269-4002-ND◆	3.00	2.25	1.66	Z8F011AHJ020EG	
									Commercial	28-SSOP	269-3311-ND	2.70	2.03	1.50	Z8F011AHJ020SC	
									Commercial	28-SSOP	269-4003-ND◆	2.70	2.03	1.50	Z8F011AHJ020SG	
									Extended	28-DIP	269-3314-ND	3.27	2.46	1.81	Z8F011APJ020EC	
									Extended	28-DIP	269-4008-ND◆	3.27	2.46	1.81	Z8F011APJ020EG	
									Commercial	28-DIP	269-3315-ND	2.94	2.21	1.64	Z8F011APJ020SC	
									Commercial	28-DIP	269-4009-ND◆	2.94	2.21	1.64	Z8F011APJ020SG	
									Extended	28-SOIC	269-3318-ND	3.00	2.25	1.66	Z8F011ASJ020EC	
									Extended	28-SOIC	269-4014-ND◆	3.00	2.25	1.66	Z8F011ASJ020EG	
									Commercial	28-SOIC	269-3319-ND	2.70	2.03	1.50	Z8F011ASJ020SC	
									Commercial	28-SOIC	269-4015-ND◆	2.70	2.03	1.50	Z8F011ASJ020SG	
		6	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3648-ND	2.82	2.12	1.57	Z8F012APB020EC	269-3307-ND, 269-3638-ND
									Extended	8-DIP	269-4032-ND◆	2.82	2.12	1.57	Z8F012APB020EG	
									Commercial	8-DIP	269-3649-ND	2.58	1.94	1.43	Z8F012APB020SC	
									Commercial	8-DIP	269-4033-ND◆	2.58	1.94	1.43	Z8F012APB020SG	
									Extended	8-QFN	269-3759-ND◆	2.82	2.12	1.57	Z8F012AQB020EG	
									Commercial	8-QFN	269-3760-ND◆	2.58	1.94	1.43	Z8F012AQB020SG	
									Extended	8-SOIC	269-3652-ND	2.82	2.12	1.57	Z8F012ASB020EC	
									Extended	8-SOIC	269-4038-ND◆	2.82	2.12	1.57	Z8F012ASB020EG	
									Commercial	8-SOIC	269-3653-ND	2.58	1.94	1.43	Z8F012ASB020SC	
									Commercial	8-SOIC	269-4039-ND◆	2.58	1.94	1.43	Z8F012ASB020SG	
		17	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3320-ND	3.12	2.34	1.73	Z8F012AHH020EC	269-3307-ND, 269-3638-ND
									Extended	20-SSOP	269-4028-ND◆	3.12	2.34	1.73	Z8F012AHH020EG	
									Commercial	20-SSOP	269-3321-ND	2.82	2.12	1.57	Z8F012AHH020SC	
									Commercial	20-SSOP	269-4029-ND◆	2.82	2.12	1.57	Z8F012AHH020SG	
									Extended	20-DIP	269-3324-ND	3.12	2.34	1.73	Z8F012APH020EC	
									Extended	20-DIP	269-4034-ND◆	3.12	2.34	1.73	Z8F012APH020EG	
									Commercial	20-DIP	269-3325-ND	2.82	2.12	1.57	Z8F012APH020SC	
									Commercial	20-DIP	269-4035-ND◆	2.82	2.12	1.57	Z8F012APH020SG	
									Extended	20-SOIC	269-3328-ND	3.12	2.34	1.73	Z8F012ASH020EC	
									Extended	20-SOIC	269-4040-ND◆	3.12	2.34	1.73	Z8F012ASH020EG	
									Commercial	20-SOIC	269-3329-ND	2.82	2.12	1.57	Z8F012ASH020SC	
									Commercial	20-SOIC	269-4041-ND◆	2.82	2.12	1.57	Z8F012ASH020SG	
		23	16	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3322-ND	3.12	2.34	1.73	Z8F012AHJ020EC	269-3307-ND, 269-3638-ND
									Extended	28-SSOP	269-4030-ND◆	3.12	2.34	1.73	Z8F012AHJ020EG	
									Commercial	28-SSOP	269-3323-ND	2.82	2.12	1.57	Z8F012AHJ020SC	
									Commercial	28-SSOP	269-4031-ND◆	2.82	2.12	1.57	Z8F012AHJ020SG	
									Extended	28-DIP	269-3326-ND	3.39	2.55	1.89	Z8F012APJ020EC	
									Extended	28-DIP	269-4036-ND◆	3.39	2.55	1.89	Z8F012APJ020EG	
									Commercial	28-DIP	269-3327-ND	3.09	2.32	1.71	Z8F012APJ020SC	
									Commercial	28-DIP	269-4037-ND◆	3.09	2.32	1.71	Z8F012APJ020SG	
									Extended	28-SOIC	269-3330-ND	3.12	2.34	1.73	Z8F012ASJ020EC	
									Extended	28-SOIC	269-4042-ND◆	3.12	2.34	1.73	Z8F012ASJ020EG	
									Commercial	28-SOIC	269-3331-ND	2.82	2.12	1.57	Z8F012ASJ020SC	
									Commercial	28-SOIC	269-4043-ND◆	2.82	2.12	1.57	Z8F012ASJ020SG	
2K	512	6	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3654-ND	2.76	2.07	1.54	Z8F021APB020EC	269-3307-ND, 269-3638-ND
									Extended	8-DIP	269-4060-ND◆	2.76	2.07	1.54	Z8F021APB020EG	
									Commercial	8-DIP	269-3655-ND	2.52	1.89	1.40	Z8F021APB020SC	
									Commercial	8-DIP	269-4061-ND◆	2.52	1.89	1.40	Z8F021APB020SG	
									Extended	8-QFN	269-3767-ND◆	2.76	2.07	1.54	Z8F021AQB020EG	
									Commercial	8-QFN	269-3768-ND◆	2.52	1.89	1.40	Z8F021AQB020SG	
									Extended	8-SOIC	269-3658-ND	2.76	2.07	1.54	Z8F021ASB020EC	
									Extended	8-SOIC	269-4066-ND◆	2.76	2.07	1.54	Z8F021ASB020EG	
									Commercial	8-SOIC	269-3659-ND	2.52	1.89	1.40	Z8F021ASB020SC	
									Commercial	8-SOIC	269-4067-ND◆	2.52	1.89	1.40	Z8F021ASB020SG	
		17	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3332-ND	3.12	2.34	1.73	Z8F021AHH020EC	269-3307-ND, 269-3638-ND
									Extended	20-SSOP	269-4056-ND◆	3.12	2.34	1.73	Z8F021AHH020EG	
									Commercial	20-SSOP	269-3333-ND	2.82	2.12	1.57	Z8F021AHH020SC	
									Commercial	20-SSOP	269-4057-ND◆	2.82	2.12	1.57	Z8F021AHH020SG	
									Extended	20-DIP	269-3336-ND	3.12	2.34	1.73	Z8F021APH020EC	
									Commercial	20-DIP	269-3337-ND	2.82	2.12	1.57	Z8F021APH020SC	
									Commercial	20-DIP	269-4063-ND◆	2.82	2.12	1.57	Z8F021APH020SG	

◆ ***RoHS Compliant*** **Note: Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

(Continued)

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	NVDS (Bytes)	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.	Development Tools
2K	512	25	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SOIC	269-3340-ND	3.12	2.34	1.73	Z8F021ASH020EC	269-3307-ND, 269-3638-ND
									Extended	20-SOIC	269-4068-ND◆	3.12	2.34	1.73	Z8F021ASH020EG	
									Commercial	20-SOIC	269-3341-ND	2.82	2.12	1.57	Z8F021ASH020SC	
									Commercial	20-SOIC	269-4069-ND◆	2.82	2.12	1.57	Z8F021ASH020SG	
									Extended	28-SSOP	269-3334-ND	3.12	2.34	1.73	Z8F021AHJ020EC	
									Extended	28-SSOP	269-4058-ND◆	3.12	2.34	1.73	Z8F021AHJ020EG	
									Commercial	28-SSOP	269-3335-ND	2.82	2.12	1.57	Z8F021AHJ020SC	
									Commercial	28-SSOP	269-4059-ND◆	2.82	2.12	1.57	Z8F021AHJ020SG	
									Extended	28-DIP	269-3338-ND	3.39	2.55	1.89	Z8F021APJ020EC	
									Extended	28-DIP	269-4064-ND◆	3.39	2.55	1.89	Z8F021APJ020EG	
									Commercial	28-DIP	269-3339-ND	3.09	2.32	1.71	Z8F021APJ020SC	
									Commercial	28-DIP	269-4065-ND◆	3.09	2.32	1.71	Z8F021APJ020SG	
									Extended	28-SOIC	269-3342-ND	3.12	2.34	1.73	Z8F021ASJ020EC	
									Extended	28-SOIC	269-4070-ND◆	3.12	2.34	1.73	Z8F021ASJ020EG	
									Commercial	28-SOIC	269-3343-ND	2.82	2.12	1.57	Z8F021ASJ020SC	
									Commercial	28-SOIC	269-4071-ND◆	2.82	2.12	1.57	Z8F021ASJ020SG	
		6	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-4088-ND◆	3.00	2.25	1.66	Z8F022APB020EG	269-3307-ND, 269-3638-ND
									Commercial	8-DIP	269-4089-ND◆	2.70	2.03	1.50	Z8F022APB020SG	
									Extended	8-QFN	269-3775-ND◆	3.00	2.25	1.66	Z8F022AQB020EG	
									Commercial	8-QFN	269-3776-ND◆	2.70	2.03	1.50	Z8F022AQB020SG	
									Extended	8-SOIC	269-3664-ND	3.00	2.25	1.66	Z8F022ASB020EC	
									Extended	8-SOIC	269-4094-ND◆	3.00	2.25	1.66	Z8F022ASB020EG	
									Commercial	8-SOIC	269-3665-ND	2.70	2.03	1.50	Z8F022ASB020SC	
									Commercial	8-SOIC	269-4095-ND◆	2.70	2.03	1.50	Z8F022ASB020SG	
		17	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3344-ND	3.27	2.46	1.81	Z8F022AHH020EC	269-3307-ND, 269-3638-ND
									Extended	20-SSOP	269-4084-ND◆	3.27	2.46	1.81	Z8F022AHH020EG	
									Commercial	20-SSOP	269-3345-ND	2.94	2.21	1.64	Z8F022AHH020SC	
									Commercial	20-SSOP	269-4085-ND◆	2.94	2.21	1.64	Z8F022AHH020SG	
									Extended	20-DIP	269-3348-ND	3.27	2.46	1.81	Z8F022APH020EC	
									Extended	20-DIP	269-4090-ND◆	3.27	2.46	1.81	Z8F022APH020EG	
									Commercial	20-DIP	269-3349-ND	2.94	2.21	1.64	Z8F022APH020SC	
									Commercial	20-DIP	269-4091-ND◆	2.94	2.21	1.64	Z8F022APH020SG	
									Extended	20-SOIC	269-3352-ND	3.27	2.46	1.81	Z8F022ASH020EC	
									Extended	20-SOIC	269-4096-ND◆	3.27	2.46	1.81	Z8F022ASH020EG	
									Commercial	20-SOIC	269-3353-ND	2.94	2.21	1.64	Z8F022ASH020SC	
									Commercial	20-SOIC	269-4097-ND◆	2.94	2.21	1.64	Z8F022ASH020SG	
		23	64	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3346-ND	3.27	2.46	1.81	Z8F022AHJ020EC	269-3307-ND, 269-3638-ND
									Extended	28-SSOP	269-4086-ND◆	3.27	2.46	1.81	Z8F022AHJ020EG	
									Commercial	28-SSOP	269-3347-ND	2.94	2.21	1.64	Z8F022AHJ020SC	
									Commercial	28-SSOP	269-4087-ND◆	2.94	2.21	1.64	Z8F022AHJ020SG	
									Extended	28-DIP	269-3350-ND	3.54	2.66	1.97	Z8F022APJ020EC	
									Extended	28-DIP	269-4092-ND◆	3.54	2.66	1.97	Z8F022APJ020EG	
									Commercial	28-DIP	269-3351-ND	3.21	2.41	1.79	Z8F022APJ020SC	
									Commercial	28-DIP	269-4093-ND◆	3.21	2.41	1.79	Z8F022APJ020SG	
									Extended	28-SOIC	269-3354-ND	3.27	2.46	1.81	Z8F022ASJ020EC	
									Extended	28-SOIC	269-4098-ND◆	3.27	2.46	1.81	Z8F022ASJ020EG	
									Commercial	28-SOIC	269-3355-ND	2.94	2.21	1.64	Z8F022ASJ020SC	
									Commercial	28-SOIC	269-4099-ND◆	2.94	2.21	1.64	Z8F022ASJ020SG	
4K	1K	6	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3666-ND	2.91	2.19	1.61	Z8F041APB020EC	269-3307-ND, 269-3638-ND
									Extended	8-DIP	269-4124-ND◆	2.91	2.19	1.61	Z8F041APB020EG	
									Commercial	8-DIP	269-3667-ND	2.64	1.98	1.47	Z8F041APB020SC	
									Commercial	8-DIP	269-4125-ND◆	2.64	1.98	1.47	Z8F041APB020SG	
									Extended	8-QFN	269-3783-ND◆	2.91	2.19	1.61	Z8F041AQB020EG	
									Commercial	8-QFN	269-3784-ND◆	2.64	1.98	1.47	Z8F041AQB020SG	
									Extended	8-SOIC	269-3670-ND	2.91	2.19	1.61	Z8F041ASB020EC	
									Extended	8-SOIC	269-4130-ND◆	2.91	2.19	1.61	Z8F041ASB020EG	
									Commercial	8-SOIC	269-3671-ND	2.64	1.98	1.47	Z8F041ASB020SC	
									Commercial	8-SOIC	269-4131-ND◆	2.64	1.98	1.47	Z8F041ASB020SG	
		17	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-DIP	269-3360-ND	3.27	2.46	1.81	Z8F041APH020EC	269-3307-ND, 269-3638-ND
									Extended	20-DIP	269-4126-ND◆	3.27	2.46	1.81	Z8F041APH020EG	
									Commercial	20-DIP	269-3361-ND	2.94	2.21	1.64	Z8F041APH020SC	
									Commercial	20-DIP	269-4127-ND◆	2.94	2.21	1.64	Z8F041APH020SG	
									Extended	20-SOIC	269-3364-ND	3.27	2.46	1.81	Z8F041ASH020EC	
									Extended	20-SOIC	269-4132-ND◆	3.27	2.46	1.81	Z8F041ASH020EG	
									Commercial	20-SOIC	269-3365-ND	2.94	2.21	1.64	Z8F041ASH020SC	
									Commercial	20-SOIC	269-4133-ND◆	2.94	2.21	1.64	Z8F041ASH020SG	
		25	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3358-ND	3.27	2.46	1.81	Z8F041AHJ020EC	269-3307-ND, 269-3638-ND
									Extended	28-SSOP	269-4122-ND◆	3.27	2.46	1.81	Z8F041AHJ020EG	
									Commercial	28-SSOP	269-3359-ND	2.94	2.21	1.64	Z8F041AHJ020SC	
									Commercial	28-SSOP	269-4123-ND◆	2.94	2.21	1.64	Z8F041AHJ020SG	
									Extended	28-DIP	269-3362-ND	3.54	2.66	1.97	Z8F041APJ020EC	
									Extended	28-DIP	269-4128-ND◆	3.54	2.66	1.97	Z8F041APJ020EG	
									Commercial	28-DIP	269-3363-ND	3.21	2.41	1.79	Z8F041APJ020SC	
									Commercial	28-DIP	269-4129-ND◆	3.21	2.41	1.79	Z8F041APJ020SG	
									Extended	28-SOIC	269-4134-ND◆	3.27	2.46	1.81	Z8F041ASJ020EG	
									Commercial	28-SOIC	269-4135-ND◆	2.94	2.21	1.64	Z8F041ASJ020SG	
		6	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-4160-ND◆	3.12	2.34	1.73	Z8F042APB020EG	269-3307-ND, 269-3638-ND
									Commercial	8-DIP	269-4161-ND◆	2.82	2.12	1.57	Z8F042APB020SG	
									Extended	8-QFN	269-3789-ND◆	3.12	2.34	1.73	Z8F042AQB020EG	
									Commercial	8-QFN	269-3790-ND◆	2.82	2.12	1.57	Z8F042AQB020SG	
									Extended	8-SOIC	269-3676-ND	3.12	2.34	1.73	Z8F042ASB020EC	
									Extended	8-SOIC	269-4166-ND◆	3.12	2.34	1.73	Z8F042ASB020EG	
									Commercial	8-SOIC	269-3677-ND	2.82	2.12	1.57	Z8F042ASB020SC	
									Commercial	8-SOIC	269-4167-ND◆	2.82	2.12	1.57	Z8F042ASB020SG	
		17	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3368-ND	3.39	2.55	1.89	Z8F042AHH020EC	269-3307-ND, 269-3638-ND
									Extended	20-SSOP	269-4156-ND◆	3.39	2.55	1.89	Z8F042AHH020EG	

◆ ***RoHS Compliant*** **Note: Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C *(Continued)*

zilog Z8 Encore! XP® Flash Microcontrollers 4K Series *(Cont.)*

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	NVDS (Bytes)	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
												1	25	100		
1K	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4580-5-ND◆	1.95	1.47	1.09	Z8F0130HH020SG	269-4643-ND
										20-DIP	269-4582-5-ND◆	1.95	1.47	1.09	Z8F0130PH020SG	
										20-QFN	269-4584-ND◆	1.95	1.47	1.09	Z8F0130QH020SG	
										20-SOIC	269-4586-ND◆	1.95	1.47	1.09	Z8F0130SH020SG	
		25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4581-5-ND◆	1.95	1.47	1.09	Z8F0130HJ020SG	269-4643-ND
										28-DIP	269-4583-5-ND◆	2.22	1.67	1.23	Z8F0130PJ020SG	
										28-QFN	269-4585-ND◆	1.95	1.47	1.09	Z8F0130QJ020SG	
										28-SOIC	269-4587-5-ND◆	1.95	1.47	1.09	Z8F0130SJ020SG	
		17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4588-5-ND◆	1.77	1.33	.99	Z8F0131HH020SG	269-4643-ND
										20-DIP	269-4590-5-ND◆	1.77	1.33	.99	Z8F0131PH020SG	
										20-QFN	269-4592-ND◆	1.77	1.33	.99	Z8F0131QH020SG	
										20-SOIC	269-4594-5-ND◆	1.77	1.33	.99	Z8F0131SH020SG	
		25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4589-5-ND◆	1.77	1.33	.99	Z8F0131HJ020SG	269-4643-ND
										28-DIP	269-4591-5-ND◆	2.22	1.67	1.23	Z8F0131PJ020SG	
										28-QFN	269-4593-ND◆	1.77	1.33	.99	Z8F0131QJ020SG	
										28-SOIC	269-4595-5-ND◆	1.77	1.33	.99	Z8F0131SJ020SG	
2K	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4596-5-ND◆	2.01	1.51	1.11	Z8F0230HH020SG	269-4643-ND
										20-DIP	269-4598-5-ND◆	2.01	1.51	1.11	Z8F0230PH020SG	
										20-QFN	269-4600-ND◆	2.01	1.51	1.11	Z8F0230QH020SG	
										20-SOIC	269-4602-5-ND◆	2.01	1.51	1.11	Z8F0230SH020SG	
		25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4597-5-ND◆	2.01	1.51	1.11	Z8F0230HJ020SG	269-4643-ND
										28-DIP	269-4599-5-ND◆	2.28	1.71	1.26	Z8F0230PJ020SG	
										28-QFN	269-4601-ND◆	2.01	1.51	1.11	Z8F0230QJ020SG	
										28-SOIC	269-4603-5-ND◆	2.01	1.51	1.11	Z8F0230SJ020SG	
		17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4604-5-ND◆	1.86	1.40	1.03	Z8F0231HH020SG	269-4643-ND
										20-DIP	269-4606-5-ND◆	1.86	1.40	1.03	Z8F0231PH020SG	
										20-QFN	269-4608-ND◆	1.86	1.40	1.03	Z8F0231QH020SG	
										20-SOIC	269-4610-5-ND◆	1.86	1.40	1.03	Z8F0231SH020SG	
		25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4605-5-ND◆	1.86	1.40	1.03	Z8F0231HJ020SG	269-4643-ND
										28-DIP	269-4607-5-ND◆	2.31	1.74	1.29	Z8F0231PJ020SG	
										28-QFN	269-4609-ND◆	1.86	1.40	1.03	Z8F0231QJ020SG	
										28-SOIC	269-4611-5-ND◆	1.86	1.40	1.03	Z8F0231SJ020SG	
4K	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4612-5-ND◆	2.10	1.58	1.17	Z8F0430HH020SG	269-4643-ND
										20-DIP	269-4614-5-ND◆	2.10	1.58	1.17	Z8F0430PH020SG	
										20-QFN	269-4616-ND◆	2.10	1.58	1.17	Z8F0430QH020SG	
										20-SOIC	269-4618-5-ND◆	2.10	1.58	1.17	Z8F0430SH020SG	
		25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4613-5-ND◆	2.10	1.58	1.17	Z8F0430HJ020SG	269-4643-ND
										28-DIP	269-4615-5-ND◆	2.37	1.78	1.31	Z8F0430PJ020SG	
										28-QFN	269-4617-ND◆	2.10	1.58	1.17	Z8F0430QJ020SG	
										28-SOIC	269-4619-5-ND◆	2.10	1.58	1.17	Z8F0430SJ020SG	
		17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4620-5-ND◆	1.92	1.44	1.07	Z8F0431HH020SG	269-4643-ND
										20-DIP	269-4622-5-ND◆	1.92	1.44	1.07	Z8F0431PH020SG	
										20-QFN	269-4624-ND◆	1.92	1.44	1.07	Z8F0431QH020SG	
										20-SOIC	269-4626-5-ND◆	1.92	1.44	1.07	Z8F0431SH020SG	
		25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4621-5-ND◆	1.92	1.44	1.07	Z8F0431HJ020SG	269-4643-ND
										28-DIP	269-4623-5-ND◆	2.40	1.80	1.33	Z8F0431PJ020SG	
										28-QFN	269-4625-ND◆	1.92	1.44	1.07	Z8F0431QJ020SG	
										28-SOIC	269-4627-5-ND◆	1.92	1.44	1.07	Z8F0431SJ020SG	
	1K	17	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-3369-ND	3.09	2.32	1.71	Z8F042AHH020SC	269-3307-ND, 269-3638-ND
									Commercial	20-SSOP	269-4157-ND◆	3.09	2.32	1.71	Z8F042AHH020SG	
									Extended	20-DIP	269-4162-ND◆	3.39	2.55	1.89	Z8F042APH020EG	
									Commercial	20-DIP	269-3373-ND	3.09	2.32	1.71	Z8F042APH020SC	
									Commercial	20-DIP	269-4163-ND◆	3.09	2.32	1.71	Z8F042APH020SG	
									Extended	20-SOIC	269-3376-ND	3.39	2.55	1.89	Z8F042ASH020EC	
									Extended	20-SOIC	269-4168-ND◆	3.39	2.55	1.89	Z8F042ASH020EG	
									Commercial	20-SOIC	269-3377-ND	3.09	2.32	1.71	Z8F042ASH020SC	
									Commercial	20-SOIC	269-4169-ND◆	3.09	2.32	1.71	Z8F042ASH020SG	
		23	128	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-4158-ND◆	3.39	2.55	1.89	Z8F042AHJ020EG	269-3307-ND 269-3638-ND
									Commercial	28-SSOP	269-3371-ND	3.09	2.32	1.71	Z8F042AHJ020SC	
									Commercial	28-SSOP	269-4159-ND◆	3.09	2.32	1.71	Z8F042AHJ020SG	
									Extended	28-DIP	269-3374-ND	3.66	2.75	2.04	Z8F042APJ020EC	
									Extended	28-DIP	269-4164-ND◆	3.66	2.75	2.04	Z8F042APJ020EG	
									Commercial	28-DIP	269-3375-ND	3.36	2.52	1.86	Z8F042APJ020SC	
									Commercial	28-DIP	269-4165-ND◆	3.36	2.52	1.86	Z8F042APJ020SG	
									Extended	28-SOIC	269-3378-ND	3.39	2.55	1.89	Z8F042ASJ020EC	
									Extended	28-SOIC	269-4170-ND◆	3.39	2.55	1.89	Z8F042ASJ020EG	
									Commercial	28-SOIC	269-3379-ND	3.09	2.32	1.71	Z8F042ASJ020SC	
									Commercial	28-SOIC	269-4171-ND◆	3.09	2.32	1.71	Z8F042ASJ020SG	
8K	256	17	64	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4631-5-ND◆	2.37	1.78	1.31	Z8F0830HH020SG	269-4643-ND
										20-DIP	269-4530-ND◆	2.37	1.78	1.31	Z8F0830PH020SG	
										20-QFN	269-4633-ND◆	2.37	1.78	1.31	Z8F0830QH020SG	
										20-SOIC	269-4529-ND◆	2.37	1.78	1.31	Z8F0830SH020SG	
		23	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-DIP	269-4532-ND◆	2.64	1.98	1.46	Z8F0830PJ020SG	269-4643-ND
										28-SOIC	269-4531-ND◆	2.37	1.78	1.31	Z8F0830SJ020SG	
		25	64	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4632-5-ND◆	2.37	1.78	1.31	Z8F0830HJ020SG	269-4643-ND
										28-QFN	269-4634-ND◆	2.37	1.78	1.31	Z8F0830QJ020SG	
		17	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4635-5-ND◆	2.10	1.58	1.17	Z8F0831HH020SG	269-4643-ND
										20-DIP	269-4637-5-ND◆	2.10	1.58	1.17	Z8F0831PH020SG	
										20-QFN	269-4639-ND◆	2.10	1.58	1.17	Z8F0831QH020SG	
										20-SOIC	269-4641-5-ND◆	2.10	1.58	1.17	Z8F0831SH020SG	
		25	64	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4636-5-ND◆	2.10	1.58	1.17	Z8F0831HJ020SG	269-4643-ND
										28-DIP	269-4638-5-ND◆	2.49	1.87	1.39	Z8F0831PJ020SG	
										28-QFN	269-4640-ND◆	2.10	1.58	1.17	Z8F0831QJ020SG	
		17	100	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SOIC	269-4557-5-ND◆	2.40	1.80	1.33	Z8F083ASH020SG	269-4672-ND
										20-PDIP	269-4549-5-ND◆	2.40	1.80	1.33	Z8F083APH020SG	
		23	100	—	8-ch. 10-bit	2.7 ~ 3.6	20MHZ	2	Commercial	28-SOIC	269-4559-5-ND◆	2.40	1.80	1.33	Z8F083ASJ020SG	269-4672-ND
		6	—	1-UART, IrDA	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3797-ND◆	3.27	2.46	1.81	Z8F081APB020EG	269-3686-ND
									Commercial	8-DIP	269-3798-ND◆	2.94	2.21	1.64	Z8F081APB020SG	

◆ ***RoHS Compliant*** **Note: Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

(Continued)

Z8 Encore! XP® Flash Microcontrollers 4K Series *(Cont.)*

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	NVDS (Bytes)	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	1	Price Each 25	100	Zilog Part No.	Development Tools
8K	1K	6	—	1-UART, IrDA	—	2.7 ~ 3.6	20MHz	2	Extended	8-QFN	269-3799-ND◆	3.27	2.46	1.81	Z8F081AQB020EG	269-3686-ND
									Commercial	8-QFN	269-3800-ND◆	2.94	2.21	1.64	Z8F081AQB020SG	
									Extended	8-SOIC	269-3801-ND◆	3.27	2.46	1.81	Z8F081ASB020EG	
									Commercial	8-SOIC	269-3802-ND◆	2.94	2.21	1.64	Z8F081ASB020SG	
		17	—	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3695-ND	3.54	2.66	1.97	Z8F081AHH020EC	269-3686-ND
									Extended	20-SSOP	269-4191-ND◆	3.54	2.66	1.97	Z8F081AHH020EG	
									Commercial	20-SSOP	269-3696-ND	3.21	2.41	1.79	Z8F081AHH020SC	
									Commercial	20-SSOP	269-4192-ND◆	3.21	2.41	1.79	Z8F081AHH020SG	
									Extended	20-DIP	269-3699-ND	3.54	2.66	1.97	Z8F081APH020EC	
									Extended	20-DIP	269-4195-ND◆	3.54	2.66	1.97	Z8F081APH020EG	
									Commercial	20-DIP	269-3700-ND	3.21	2.41	1.79	Z8F081APH020SC	
									Commercial	20-DIP	269-4196-ND◆	3.21	2.41	1.79	Z8F081APH020SG	
									Extended	20-SOIC	269-3703-ND	3.54	2.66	1.97	Z8F081ASH020EC	
									Extended	20-SOIC	269-4199-ND◆	3.54	2.66	1.97	Z8F081ASH020EG	
									Commercial	20-SOIC	269-3704-ND	3.21	2.41	1.79	Z8F081ASH020SC	
									Commercial	20-SOIC	269-4200-ND◆	3.21	2.41	1.79	Z8F081ASH020SG	
		25	—	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-4193-ND◆	3.54	2.66	1.97	Z8F081AHJ020EG	269-3686-ND
									Commercial	28-SSOP	269-3698-ND	3.21	2.41	1.79	Z8F081AHJ020SC	
									Commercial	28-SSOP	269-4194-ND◆	3.21	2.41	1.79	Z8F081AHJ020SG	
									Extended	28-DIP	269-3701-ND	3.84	2.88	2.13	Z8F081APJ020EC	
									Extended	28-DIP	269-4197-ND◆	3.84	2.88	2.13	Z8F081APJ020EG	
									Commercial	28-DIP	269-3702-ND	3.48	2.61	1.93	Z8F081APJ020SC	
									Commercial	28-DIP	269-4198-ND◆	3.48	2.61	1.93	Z8F081APJ020SG	
									Extended	28-SOIC	269-3705-ND	3.54	2.66	1.97	Z8F081ASJ020EC	
									Extended	28-SOIC	269-4201-ND◆	3.54	2.66	1.97	Z8F081ASJ020EG	
									Commercial	28-SOIC	269-3706-ND	3.21	2.41	1.79	Z8F081ASJ020SC	
									Commercial	28-SOIC	269-4202-ND◆	3.21	2.41	1.79	Z8F081ASJ020SG	
		17	—	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4224-ND◆	3.36	2.52	1.86	Z8F082AHH020SG	269-3686-ND
									Extended	20-DIP	269-3709-ND	3.66	2.75	2.04	Z8F082APH020EC	
									Extended	20-DIP	269-4227-ND◆	3.66	2.75	2.04	Z8F082APH020EG	
									Commercial	20-DIP	269-3682-ND	3.36	2.52	1.86	Z8F082APH020SC	
									Commercial	20-DIP	269-4228-ND◆	3.36	2.52	1.86	Z8F082APH020SG	
									Extended	20-SOIC	269-3711-ND	3.66	2.75	2.04	Z8F082ASH020EC	
									Extended	20-SOIC	269-4230-ND◆	3.66	2.75	2.04	Z8F082ASH020EG	
									Commercial	20-SOIC	269-4231-ND◆	3.36	2.52	1.86	Z8F082ASH020SG	
		6	—	UART	4-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3807-ND◆	3.39	2.55	1.89	Z8F082APB020EG	269-3686-ND
									Commercial	8-DIP	269-3735-ND◆	3.66	3.36	2.04	Z8F082APB020SG	
									Extended	8-QFN	269-3808-ND◆	3.39	2.55	1.89	Z8F082AQB020EG	
									Commercial	8-QFN	269-3809-ND◆	3.09	2.32	1.71	Z8F082AQB020SG	
									Extended	8-SOIC	269-3810-ND◆	3.39	2.55	1.89	Z8F082ASB020EG	
									Commercial	8-SOIC	269-3736-ND◆	3.09	2.84	1.71	Z8F082ASB020SG	
		23	—	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-4225-ND◆	3.66	2.75	2.04	Z8F082AHJ020EG	269-3686-ND
									Commercial	28-SSOP	269-4226-ND◆	3.36	2.52	1.86	Z8F082AHJ020SG	
									Extended	28-DIP	269-3710-ND	3.96	2.97	2.20	Z8F082APJ020EC	
									Extended	28-DIP	269-4229-ND◆	3.96	2.97	2.20	Z8F082APJ020EG	
									Commercial	28-DIP	269-3683-ND	3.60	2.70	2.00	Z8F082APJ020SC	
									Extended	28-SOIC	269-3712-ND	3.66	2.75	2.04	Z8F082ASJ020EC	
									Extended	28-SOIC	269-4232-ND◆	3.66	2.75	2.04	Z8F082ASJ020EG	
									Commercial	28-SOIC	269-3685-ND	3.36	2.52	1.86	Z8F082ASJ020SC	
									Commercial	28-SOIC	269-4233-ND◆	3.36	2.52	1.86	Z8F082ASJ020SG	
12K	256	17	—	—	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4644-5-ND◆	2.64	1.98	1.46	Z8F1232HH020SG	269-4643-ND
										20-DIP	269-4646-5-ND◆	2.64	1.98	1.46	Z8F1232PH020SG	
										20-QFN	269-4648-ND◆	2.64	1.98	1.46	Z8F1232QH020SG	
										20-SOIC	269-4650-5-ND◆	2.64	1.98	1.46	Z8F1232SH020SG	
		25	—	—	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4645-5-ND◆	2.64	1.98	1.46	Z8F1232HJ020SG	269-4643-ND
										28-DIP	269-4647-5-ND◆	2.88	2.16	1.60	Z8F1232PJ020SG	
										28-QFN	269-4649-ND◆	2.64	1.98	1.46	Z8F1232QJ020SG	
										28-SOIC	269-4651-5-ND◆	2.64	1.98	1.46	Z8F1232SJ020SG	
		17	—	—	—	2.7 ~ 3.6	20MHz	2	Commercial	20-SSOP	269-4652-5-ND◆	2.40	1.80	1.33	Z8F1233HH020SG	269-4643-ND
										20-DIP	269-4654-5-ND◆	2.40	1.80	1.33	Z8F1233PH020SG	
										20-QFN	269-4656-ND◆	2.40	1.80	1.33	Z8F1233QH020SG	
										20-SOIC	269-4658-5-ND◆	2.40	1.80	1.33	Z8F1233SH020SG	
		25	—	—	—	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-4653-5-ND◆	2.40	1.80	1.33	Z8F1233HJ020SG	269-4643-ND
										28-DIP	269-4655-5-ND◆	2.58	1.94	1.44	Z8F1233PJ020SG	
										28-QFN	269-4657-ND◆	2.40	1.80	1.33	Z8F1233QJ020SG	
										28-SOIC	269-4659-5-ND◆	2.40	1.80	1.33	Z8F1233SJ020SG	
16K	1K	23	256	1-UART, IrDA	8-ch. 10-bit	1.8 ~ 3.6	20MHz	3	Commercial	28-SOIC	269-4673-ND◆	4.44	3.33	2.46	Z8F1680SJ020SG	269-4664-ND
		37		2-UART, IrDA						44-LQFP	269-4674-ND◆	4.44	3.33	2.46	Z8F1680AN020SG	
24K	1K	23	—	1-UART, IrDA	8-ch. 10-bit	1.8 ~ 3.6	20MHz	3	Commercial	28-SOIC	269-4675-ND◆	4.68	3.51	2.60	Z8F2480SJ020SG	269-4664-ND
		37		2-UART, IrDA						44-LQFP	269-4676-ND◆	4.68	3.51	2.60	Z8F2480AN020SG	

◆ ***RoHS Compliant*** **Note: Temperature Range:** • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

Z8 Encore!® MC (Motor Control) Flash Microcontrollers

The Z8FMCxx100 Series Flash MCU is based on ZiLOG's advanced eZ8 8-bit CPU core and is optimized for motor control applications. It supports control of single and multiphase variable speed motors. Target applications are consumer appliances, HVAC, factory automation, refrigeration, and automotive applications.

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Timer/Counters, PWM's	Operating Temp.	Package	Digi-Key Part No.	1	Price Each 25	100	Zilog Part No.	Development Tools
4K	512	17	UART,with IrDA, I^{2}C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	Extended	32-LQFP	269-3811-ND	6.42	4.82	3.56	Z8FMC04100AKEG	269-3639-ND
									32-QFN	269-3813-ND	6.42	4.82	3.56	Z8FMC04100QKEG	
4K	512	17	UART,with IrDA, I^{2}C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	Commercial	32-LQFP	269-3812-ND	5.82	4.37	3.23	Z8FMC04100AKSG	269-3830-ND
									32-QFN	269-3814-ND	5.82	4.37	3.23	Z8FMC04100QKSG	
8K	512	17	UART,with IrDA, I^{2}C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	Extended	32-LQFP	269-3815-ND	6.54	4.91	3.63	Z8FMC08100AKEG	269-3639-ND
									32-QFN	269-3817-ND	6.54	4.91	3.63	Z8FMC08100QKEG	
8K	512	17	UART,with IrDA, I^{2}C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	Commercial	32-LQFP	269-3816-ND	5.94	4.46	3.30	Z8FMC08100AKSG	269-3830-ND
									32-QFN	269-3818-ND	5.94	4.46	3.30	Z8FMC08100QKSG	
16K	512	17	UART,with IrDA, I^{2}C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	Commercial	32-LQFP	269-3819-ND	5.70	4.28	3.16	Z8FMC16100AKSG	269-3830-ND
									32-QFN	269-3820-ND	5.70	4.28	3.16	Z8FMC16100QKSG	
									32-QFN	269-3832-ND	6.81	5.11	3.79	Z8FMC16100QKEG	

Note: Temperature Range: • Commercial: -0°C ~ 70°C • Extended: -40°C ~ 105°C

zilog eZ80AcclaimPlus!™ Flash Microcontrollers

Flash (KB)	SRAM (KB)	I/O Lines	DMA Controller	Speed (MHz)	16-bit Timers	EMAC	Other Features	IrDA	Operating Voltage	Temperature Range	Package	Digi-Key Part No.	Price Each			Zilog Part No.
													1	25	100	
256K	16K	32	Y	50	4	Y	2 UARTS, SPI, I^{2}C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	144-LQFP	269-3867-ND◆	12.60	9.45	7.00	EZ80F91AZ050EG
											144-LQFP	269-3868-ND◆	11.46	8.60	6.37	EZ80F91AZ050SG
											144-BGA	269-3250-ND	30.87	23.16	13.72	EZ80F91NA050EC
											144-BGA	269-3869-ND◆	14.01	10.51	7.79	EZ80F91NA050EG
											144-BGA	269-3870-ND◆	12.75	9.57	7.09	EZ80F91NA050SG
256K	8K	32	Y	50	4	Y	2 UARTS, SPI, I^{2}C, PLL, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	144-LQFP	269-4563-ND◆	12.60	9.45	7.00	EZ80F91AZA50EG
											144-LQFP	269-4564-ND◆	11.46	8.60	6.37	EZ80F91AZA50SG
											144-BGA	269-4565-ND◆	14.01	10.51	7.79	EZ80F91NAA50EG
											144-BGA	269-4566-ND◆	12.75	9.57	7.09	EZ80F91NAA50SG
128K	8K	24	—	20	6	—	2 UARTS, SPI, I^{2}C, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3200-ND	8.67	6.51	4.81	EZ80F92AZ020EC
												269-3871-ND◆	8.67	6.51	4.81	EZ80F92AZ020EG
												269-3872-ND	7.86	5.90	4.37	EZ80F92AZ020SG
64K	4K	24	—	20	6	—	2 UARTS, SPI, I^{2}C, RTC	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3201-ND	7.14	5.36	3.96	EZ80F93AZ020EC
												269-3873-ND◆	7.14	5.36	3.96	EZ80F93AZ020EG
												269-3164-ND	6.33	4.75	3.51	EZ80F93AZ020SC
												269-3874-ND◆	6.33	4.75	3.51	EZ80F93AZ020SG
—	—	24	—	20	6	—	2 UARTS, SPI, I^{2}C	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3875-ND◆	14.22	10.67	7.90	EZ80L92AZ020EG
												269-3168-ND	12.36	9.27	6.87	EZ80L92AZ020SC
												269-3876-ND◆	12.36	9.27	6.87	EZ80L92AZ020SG
—	—	24	—	50	6	—	2 UARTS, SPI, I^{2}C	Y	3.0 ~ 3.6	-40°C ~ 105°C	100-LQFP	269-3169-ND	15.63	11.73	8.69	EZ80L92AZ050EC
												269-3877-ND	15.63	11.73	8.69	EZ80L92AZ050EG
												269-3878-ND◆	13.62	10.22	7.56	EZ80L92AZ050SG

◆ *RoHS Compliant*

Emulators

Description	Digi-Key Part No.	Price Each
Z8 Encore!®		
Z8 Encore! 64K Series 64-pin LQFP Emulator Kit	269-3395-ND	2995.00
Z8 Encore! 64K Series 68-pin PLCC Emulator Kit	269-3396-ND	2995.00
Z8 Encore! 64K Series 80-pin QFP Emulator Kit	269-3397-ND	2995.00
Z8 GP™		
Z8 GP ZGP323 In-Circuit Emulator and Development Platform	269-3743-ND	999.00
Z8 GP ZGP323 In-Circuit Emulator	269-3864-ND	499.00
Z8 Encore!® MC		
Z8 Encore! MC Z8FMC16100 Emulator	269-3830-ND	1999.01
NEW! Crimzon™ — RoHS Compliant NEW!		
In-Circuit Emulator (ICE) for Crimzon Family Chips (ZCRMZNICE01ZEMG)	269-4685-ND	1125.00

Development Kits

Description	Digi-Key Part No.	Price Each
eZ80Acclaim!™		
Development Kit for eZ80F91	269-4560-ND◆	99.95
Development Kit for eZ80F91	269-4561-ND◆	279.00
ZDots SBC for Z80Acclaim	269-4671-ND◆	75.00
ZDots SBC for Z80Acclaim	269-3162-ND	399.95
Z8 Encore! XP®		
Z8 Encore! XP 4K Series, (8-pin) Development Kit	269-3638-ND	49.99
Z8 Encore! XP 4K Series, (8-pin) Development Kit	269-4628-ND◆	49.99
Z8 Encore! XP 4K Series, (28-pin) Development Kit	269-4629-ND◆	39.95
Z8 Encore! XP F08xA Series, (28-pin) Development Kit	269-4643-ND◆	39.95
Z8 Encore! XP F083A Series, Development Kit	269-4672-ND◆	39.95
Z8 Encore!®		
Z8-Encore! Development Kit (8K/4K)	269-4630-ND◆	39.95
Z8 Encore! Z8F642 MCU Development Kit	269-4540-ND◆	39.95
Z8 Encore! Z8F642 MCU Development Kit (28-Pin Series)	269-4677-ND◆	74.95
Z8 Encore! Z8F642 MCU Development Kit (44-Pin Series)	269-4678-ND◆	99.95
Z8 Encore! Motor Control Development Kit	269-3639-ND	199.95
Z8 Encore! Motor Control Development Kit	269-4660-ND◆	199.95
ZVECTOR Development Kit with Motor	269-4668-ND	800.00
ZVECTOR Development Kit with out Motor	269-4669-ND◆	600.00
Crimzon™		
Crimzon RC Development Platform	269-3398-ND	249.00
Crimzon RC Blaster™ Development Kit	269-4682-ND◆	111.25
Crimzon Development Board Kit for use as a target with ZCRMZNICE01ZEMG (ICE)	269-4683-ND◆ ***NEW!***	125.00

◆ *RoHS Compliant*

Programmer

Description	Digi-Key Part No.	Price Each
Z8 GP™		
Z8 GP ZGP323 Ethernet Programming System	269-3390-ND	99.00

Adapters

Description	Digi-Key Part No.	Price Each
Z8 Encore!®		
Z8 Encore! 64K Series 44-pin LQFP ICE Adapter	269-3400-ND	299.00
Z8 Encore! 64K Series 40-pin PDIP ICE Adapter	269-3401-ND	299.00
Z8 Encore! 64K Series 44-pin PLCC ICE Adapter	269-3402-ND	299.00
Z8 Encore! 64K Series 64-pin LQFP ICE Adapter	269-3403-ND	299.00
Z8 Encore! 64K Series 68-pin PLCC ICE Adapter	269-3404-ND	299.00
Z8 Encore! 64K Series 80-pin QFP ICE Adapter	269-3405-ND	299.00
Z8 GP™		
Z8 GP ZGP323 20-pin SSOP Programming Adapter	269-3738-ND	90.00
Z8 GP ZGP323 20-pin SOIC Programming Adapter	269-3739-ND	90.00
Z8 GP ZGP323 28-pin SSOP Programming Adapter	269-3740-ND	90.00
Z8 GP ZGP323 28-pin SOIC Programming Adapter	269-3741-ND	90.00
Z8 GP ZGP323 48-pin SSOP Programming Adapter	269-3742-ND	90.00

Modules

Description	Digi-Key Part No.	Price Each
eZ80Acclaim!™		
Multipurpose MCU Module	269-3861-ND◆	180.00
Flash Module for eZ80F91	269-4562-ND◆	75.00
Flash Module for eZ80F92	269-3156-ND	126.15
Ethernet Module for eZ80F92	269-3157-ND	162.00
eZ80® — RoHS Compliant		
Webserver-i Ethernet Module	269-4670-ND	57.38
Mini Ethernet Module	269-3860-ND	105.00
Mini Ethernet Module	269-4666-ND	46.67

◆ *RoHS Compliant*

Accessory Kits

Description	Digi-Key Part No.	Price Each
eZ80Acclaim!™		
eZ80Acclaim! Serial Smart Cable Accessory Kit	269-3391-ND	35.00
USB Smart Cable Accessory Kit	269-4539-ND◆	29.95
Ethernet Smart Cable Accessory Kit	269-4661-ND◆	69.99
Z8 Encore!® MC™ — RoHS Compliant		
Opto-isolated USB Smart Cable Accessory Kit	269-4664-ND	75.00
NEW! Crimzon™ — RoHS Compliant NEW!		
20-Pin Accessory Kit for use with ZCRMZNICE01ZEMG (ICE)	269-4684-ND	170.00
40/48-Pin Accessory Kit for use with ZCRMZNICE01ZEMG (ICE)	269-4686-ND	500.00

◆ *RoHS Compliant*

Real-Time, In-Circuit Emulation and Programming for only $49.95

Z86CCP01ZEM Emulator / Programmer for Zilog's Z8® Microcontrollers with up to 32K Program Memory

Digi-Key® Part No. **269-2002-ND**
(See Z8 chart for applicable devices.)

GENERAL DESCRIPTION: Zilog's in-circuit emulator/programmer is an interactive, Windows™ based development tool providing a real-time environment for emulation and debugging, which includes a full-featured macro cross assembler to enhance programmer productivity. The Z86CCP01ZEM is a member of Zilog's ICEBOX™ product family of in-circuit emulators providing support for the Z8 microcontrollers. The emulator provides essential timing and I/O circuitry to simplify user emulation of the prototype hardware and software product. The Z8 CCP emulator provides users with a hardware platform to develop and debug software in a real-time environment. In contrast, software simulators provide significantly slower operation making them less practical for code development. The Z8 CCP emulator can be connected to a serial port (COM1, COM2, COM3, and COM4) of the host computer and uses Zilog Developer Studio (ZDS).

Z8 CCP Emulator Kit Contents: Circuit Board: CMOS Z86C9320VSC, 20MHZ CMOS Z86C5020FSE ICE Chip, 32K x 8 Static RAM (for Code Memory) 18-Pin DIP ZIF Programming Socket, Holes Available for 28/40-Pin ZIF Programming Sockets, Sockets for 28/40-Pin Target Cables, 25-pin RS-232C Interface Connector: 18-Pin DIP Target Cable, Power Cable **Documentation:** Emulator User's Manual

***NOTE:** Power Supply RS-232C not included with Z86CCP01ZEM (recommended wall transformer T404-ND)*

FEATURES: • In-Circuit Debug Emulation • Real-Time Emulation • Z8 GUI ZDS Emulator Software • Window-Based User Interface • On-Line Help • One-Time Programmable (OTP) Support • Selectable Baud Rates: 9600 to 57.6 Kbps • Bisync Error-Correcting Communications Protocol • Source-Level Debugging • Symbolic Disassembly in the Debug Window • Zilog Developer Studio (ZDS): – ZMASM, – Structured Assembly and Data Code, – Source-Level Debug Support, – Built-In Register Equates, – Linker, – Windows 95™ Integrated Editor

SPECIFICATIONS: Operating Temperature: 20°C ± 10°C **Supply Voltage:** +7.5 VDC to 10VDC **Minimum Emulation Speed:** 1MHz internal SCLK **Maximum Emulation Speed:** 6MHz internal SCLK12 MHz external Crystal (shipped with 8MHZ crystal) **Operating Humidity:** 10-90% RH (non-condensing) **Power Requirements:** +8VDC @ 0.5A typical, 0.8A maximum **Dimensions: Width:** 7.0 in. (17.7cm) **Length:** 9.0 in. (22.9cm) **Height:** 0.9 in. (2.3cm) **Serial Interface:** RS-232C @ 9600, 19200 (default), 28800, or 57600 Baud

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Z8® Series Microcontrollers

Z8 MCU Family

OVERVIEW: Zilog MCU products are targeted for cost-sensitive, high-volume applications including consumer, automotive, security, and HVAC. One-time programmable (OTPs) for prototyping as well as volume production where time to market or code flexibility is critical. A variety of packaging options are available. The same on-chip peripherals are used across the MCU product line with the primary differences being the amount of ROM/RAM, number of I/O lines present, and packaging/temperature ranges available. This allows code written for one MCU device to be easily ported to another family member.

FEATURES: • General-Purpose Register (GPR) File Architecture: Every RAM register acts like an accumulator, speeding instruction execution and maximizing coding efficiency. Working register groups allow fast context switching. **• Flexible I/O:** I/O byte, nibble, and/or bit programmable as inputs or outputs. Outputs are software programmable as open-drain or push-pull on a port basis. Inputs are Schmitt-triggered with auto latches to hold unused inputs at a known voltage state. **• Analog Inputs:** Three input pins are software programmable as digital or analog inputs. When in the analog mode, two comparator inputs are provided with a common reference input. **• Timer/Counter (T/C):** The T/C consists of a programmable 6-bit prescaler and 8-bit downcounter, with maskable interrupt upon end-of-count. **• Interrupts:** There are six vectored interrupt sources with software-programmable enable and priority for each of the six sources. **• Watch-Dog Timer (WDT):** An internal WDT circuit is included as a fail-safe mechanism so that if software strays outside the bounds of normal operation, the WDT will timeout and reset the MCU. **• Auto Reset:** All family devices have internal Power-On Reset. **• Low-EMI Operation:** Mode is programmable via software or as a mask option. This new option provides for reduced radiated emission via clock and output drive circuit changes. **• Low-Power:** CMOS with two standby modes; STOP and HALT. **• Full Z8 Instruction Set:** Forty-eight basic instructions, supported by six addressing modes with the ability to operate on bits, nibbles, bytes, and words.

ACCESSORY KIT

The Z86CCP00ZAC is the accessory kit for the Z86CCP01ZEM. The kit contains all accessories to fully populate and operate all functions of the Z86CCP01ZEM.

KIT CONTENTS: • 28-Pin DIP ZIF Socket • 28-Pin Target Connector Cable • 40-Pin DIP ZIF Socket • 40-Pin Target Connector Cable • RS-232 Cable • Power Cable

Memory Size		I/O	Oscillator	Frequency	Supply				Price Each			
EPROM	RAM	I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Supply Voltage Range	Operating Temperature (°C)	Package	Digi-Key Part No.	1	25	100	Zilog Part No.
0.5K	61	14	XTAL/RC	DC-8MHz	3.5 ~ 5.5	0 ~ 70	18-DIP	269-1012-ND	1.56	1.17	.86	Z86E0208PSC1925
			XTAL/RC	DC-8MHz	3.5 ~ 5.5	0 ~ 70	18-DIP	269-3948-ND◆	1.56	1.17	.86	Z86E0208PSG1925
			XTAL/RC	DC-8MHz	3.5 ~ 5.5	0 ~ 70	18-SOIC	269-1014-ND	1.56	1.17	.86	Z86E0208SSC1925
			XTAL	DC-8MHz	3.5 ~ 5.5	0 ~ 70	20-SSOP	269-3069-ND	2.13	1.60	1.19	Z86E0208HSC1925
			XTAL	DC-8MHz	3.5 ~ 5.5	0 ~ 70	20-SSOP	269-3946-ND◆	2.13	1.60	1.19	Z86E0208HSG1925
			XTAL/RC	DC-8MHz	4.5 ~ 5.5	-40 ~ 105	18-DIP	269-3947-ND◆	2.13	1.60	1.19	Z86E0208PEG1925
			XTAL/RC	DC-8MHz	4.5 ~ 5.5	-40 ~ 105	18-SOIC	269-3949-ND◆	2.13	1.60	1.19	Z86E0208SEG1925
			XTAL	DC-8MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3068-ND	2.34	1.76	1.30	Z86E0208HEC1925
			XTAL	DC-8MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3945-ND◆	2.34	1.76	1.30	Z86E0208HEG1925
1K	125	14	RC	DC-12MHz	4.5 ~ 5.5	0 ~ 70	18-DIP	269-1096-ND	2.31	1.74	1.29	Z86E0412PSC1903
			XTAL	DC-12MHz	4.5 ~ 5.5	0 ~ 70	20-SSOP	269-3076-ND	3.21	2.41	1.79	Z86E0412HSC1866
			XTAL	DC-12MHz	4.5 ~ 5.5	0 ~ 70	20-SSOP	269-3952-ND◆	3.21	2.41	1.79	Z86E0412HSG1866
			RC	DC-12MHz	4.5 ~ 5.5	0 ~ 70	20-SSOP	269-3077-ND	3.21	2.41	1.79	Z86E0412HSC1903
			RC	DC-12MHz	4.5 ~ 5.5	0 ~ 70	20-SSOP	269-3953-ND◆	3.21	2.41	1.79	Z86E0412HSG1903
			XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	18-DIP	269-1093-ND	3.36	2.52	1.86	Z86E0412PEC
			XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	18-DIP	269-3954-ND◆	3.36	2.52	1.86	Z86E0412PEG
			XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	18-SOIC	269-1097-ND	3.36	2.52	1.86	Z86E0412SEC
			XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	18-SOIC	269-3955-ND◆	3.36	2.52	1.86	Z86E0412SEG
			XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3074-ND	3.54	2.66	1.97	Z86E0412HEC1866
			XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3950-ND◆	3.54	2.66	1.97	Z86E0412HEG1866
			RC	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3075-ND	3.54	2.66	1.97	Z86E0412HEC1903
			RC	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3951-ND◆	3.54	2.66	1.97	Z86E0412HEG1903
2K	125	14	XTAL	DC-12MHz	4.5 ~ 5.5	0 ~ 70	18-DIP	269-3961-ND◆	2.70	2.03	1.50	Z86E0812PSG1866
			RC	DC-12MHz	4.5 ~ 5.5	0 ~ 70	18-DIP	269-1026-ND	2.70	2.03	1.50	Z86E0812PSC1903
			RC	DC-12MHz	4.5 ~ 5.5	0 ~ 70	18-DIP	269-3962-ND◆	2.70	2.03	1.50	Z86E0812PSG1903
			XTAL	DC-12MHz	4.5 ~ 5.5	0 ~ 70	18-SOIC	269-1029-ND	2.70	2.03	1.50	Z86E0812SSC1866
			RC	DC-12MHz	4.5 ~ 5.5	0 ~ 70	20-SSOP	269-3089-ND	3.90	2.93	2.16	Z86E0812HSC1903
			RC	DC-12MHz	4.5 ~ 5.5	0 ~ 70	20-SSOP	269-3959-ND◆	3.90	2.93	2.16	Z86E0812HSG1903
			XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	28-SOIC	269-1055-ND	5.46	4.10	3.04	Z86E3116SSC
			XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	28-SOIC	269-3968-ND◆	5.46	4.10	3.04	Z86E3116SSG
			XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	18-DIP	269-3960-ND◆	4.08	3.06	2.27	Z86E0812PEG
			XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	18-SOIC	269-3963-ND◆	2.94	2.21	1.64	Z86E0812SEG
			XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3086-ND	4.29	3.22	2.39	Z86E0812HEC1866
			XTAL	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3957-ND◆	4.29	3.22	2.39	Z86E0812HEG1866
			RC	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3087-ND	4.29	3.22	2.39	Z86E0812HEC1903
			RC	DC-12MHz	4.5 ~ 5.5	-40 ~ 105	20-SSOP	269-3958-ND◆	4.29	3.22	2.39	Z86E0812HEG1903
			XTAL/RC	DC-16MHz	4.5 ~ 5.5	-40 ~ 105	28-DIP	269-3966-ND◆	6.06	4.55	3.36	Z86E3116PEG
			XTAL/RC	DC-16MHz	4.5 ~ 5.5	-40 ~ 105	28-SOIC	269-1054-ND	6.06	4.55	3.36	Z86E3116SEC
			XTAL/RC	DC-16MHz	4.5 ~ 5.5	-40 ~ 105	28-SOIC	269-3967-ND◆	6.06	4.55	3.36	Z86E3116SEG

◆ ***RoHS Compliant***

(Continued)

zilog Z8® Series Microcontrollers *(Cont.)*

Memory Size EPROM	RAM	I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Supply Voltage Range	Operating Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.
4K	237	24	XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	28-DIP	269-3965-ND◆	6.60	4.95	3.67	Z86E3016PSG
			XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	28-SOIC	269-4539-5-ND◆	6.60	4.95	3.67	Z86E3016SSG
			XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	28-PLCC	269-1045-ND	6.60	4.95	3.67	Z86E3016VSC
			XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-DIP	269-1036-ND	6.84	5.13	3.80	Z86E3312PSC
			XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-DIP	269-3969-ND◆	6.84	5.13	3.80	Z86E3312PSG
			XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-SOIC	269-1103-ND	6.84	5.13	3.80	Z86E3312SSC
			XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-SOIC	269-3970-ND◆	6.84	5.13	3.80	Z86E3312SSG
			XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-PLCC	269-1104-ND	6.84	5.13	3.80	Z86E3312VSC
			XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-PLCC	269-3971-ND◆	6.84	5.13	3.80	Z86E3312VSG
	236	32	XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	40-DIP	269-3975-ND◆	7.86	5.90	4.37	Z86E4016PSG
			XTAL/RC	DC-16MHz	3.5 ~ 5.5	0 ~ 70	44-PLCC	269-3976-ND◆	7.86	5.90	4.37	Z86E4016VSG
			XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	40-DIP	269-3977-ND◆	8.34	6.26	4.64	Z86E4312PSG
			XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	44-PLCC	269-3978-ND◆	8.34	6.26	4.64	Z86E4312VSG
			XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	44-PQFP	269-1108-ND	10.17	7.63	4.95	Z86E4312FSC
			XTAL/RC	DC-16MHz	4.5 ~ 5.5	0 ~ 70	44-PQFP	269-1107-ND	9.57	7.18	4.42	Z86E4016FSC
	237	24	XTAL/RC	DC-16MHz	4.5 ~ 5.5	-40 ~ 105	28-DIP	269-3964-ND◆	7.26	5.45	4.04	Z86E3016PEG
	236	32	XTAL/RC	DC-16MHz	4.5 ~ 5.5	-40 ~ 105	40-DIP	269-1071-ND	8.64	6.48	4.80	Z86E4016PEC
	236	32	XTAL/RC	DC-16MHz	4.5 ~ 5.5	-40 ~ 105	40-DIP	269-3974-ND◆	8.64	6.48	4.80	Z86E4016PEG
8K	237	24	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-SOIC	269-3940-ND◆	8.34	6.26	4.63	Z8673312SSG
	237	24	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-DIP	269-3939-ND◆	8.34	6.26	4.63	Z8673312PSG
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	44-PLCC	269-1048-ND	9.66	7.25	5.37	Z8674312VSC
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	44-PLCC	269-3942-ND◆	9.66	7.25	5.37	Z8674312VSG
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	40-DIP	269-3941-ND◆	9.66	7.25	5.37	Z8674312PSG
16K	237	24	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	28-DIP	269-3972-ND◆	11.01	8.26	6.11	Z86E3412PSG
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	40-DIP	269-3980-ND◆	12.36	9.27	6.87	Z86E4412PSG
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	44-PLCC	269-3981-ND◆	12.36	9.27	6.87	Z86E4412VSG
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	44-PQFP	269-1109-ND	14.82	11.12	6.59	Z86E4412FSC
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	44-PQFP	269-3979-ND◆	14.82	11.12	6.59	Z86E4412FSG
	236	32	XTAL/RC	DC-12MHz	3.5 ~ 5.5	0 ~ 70	44-LQFP	269-4577-ND◆	12.72	9.54	7.06	Z86E4412ASG
	236	32	XTAL	DC-16MHz	4.5 ~ 5.5	0 ~ 70	44-PQFP	269-3982-ND◆	23.01	17.26	10.23	Z86E6116FSG
	236	32	XTAL	DC-16MHz	4.5 ~ 5.5	0 ~ 70	44-LQFP	269-4578-ND◆	19.74	14.81	10.96	Z86E6116ASG
32K	236	32	XTAL	DC-16MHz	4.5 ~ 5.5	0 ~ 70	44-PQFP	269-1111-ND	29.22	21.92	12.99	Z86E6316FSC
			XTAL	DC-16MHz	4.5 ~ 5.5	0 ~ 70	44-PQFP	269-3983-ND◆	29.22	21.92	12.99	Z86E6316FSG
			XTAL	DC-16MHz	4.5 ~ 5.5	0 ~ 70	44-LQFP	269-4579-ND◆	25.05	18.79	13.91	Z86E6316ASG

◆ ***RoHS Compliant***

Description	Digi-Key Part No.	Price Each	Zilog Part No.
OTP Programming Adapters			
18 Pin SOIC Adapter	269-2006-ND	95.00	Z86E0700ZDP
Z8 Accessory Kit (28-DIP, 40-DIP) for Z86CCP01ZEM	269-2001-ND	46.43	Z86CCP00ZAC
44 Pin PLCC Adapter	269-2008-ND	74.83	Z86E4001ZDV
28 Pin Dip Adapter	269-2009-ND	33.75	Z86E3400ZDP
28 Pin SOIC Adapter	269-2010-ND	50.63	Z86E3400ZDS
44 Pin PQFP to 40 Dip Adapter	269-2021-ND	198.00	Z86E2101ZDF
44 Pin PQFP to 40 Dip Adapter	269-2022-ND	118.83	Z86E4001ZDF

eZ80 - *The Next Generation*

EZ80190AZ050EC AND EZ80190AZ050SC

Just as the Z80 revolutionized the semiconductor industry, the next generation eZ80 is revolutionizing the way that communications are happening today. This elegant system-on-a-chip can serve web pages over a TCP/IP network, allowing easy system monitoring and control, effortless processor code updates, and system compatibility. This solution enables any browser with access to your network the ability to control and monitor a network application. The eZ80 executes Z80 code four times faster than traditional Z80s at the same clock speed, and can operate at speeds up to 50MHz. Unlike most 8-bit microprocessors, which can only address 64KB, the eZ80 can address 16MB without a Memory Management unit. The eZ80 Webserver also features an Embedded Internet Software Suite that enables the transmission and reception of HTML form data and the dynamic generation of web pages.

FEATURES:

- 50MHz Processor
- Multiply and Accumulate Engine
- 16MB Linear Addressing
- 3.3V Operation
- 2 DMA Channels
- Universal Zilog Interface (selectable UART, IIC, SPI)
- 6 PRTs with Prescalers
- 8KB SRAM
- 32-Bit GPIO with Interrupt Support
- On-Chip Oscillator
- Optimized Pipeline Architecture
- Zilog Debug Interface

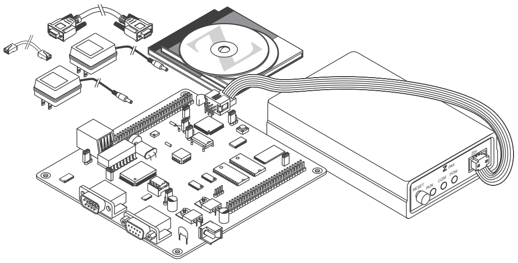

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.
Webserver IC, Ext. Temperature	100-LQFP	269-3123-ND	21.18	15.89	11.76	EZ80190AZ050EC
Webserver IC, Ext. Temperature	100-LQFP	269-3865-ND◆	21.18	15.89	11.76	EZ80190AZ050EG
Webserver IC	100-LQFP	269-3124-ND	18.42	13.82	10.23	EZ80190AZ050SC
Webserver IC	100-LQFP	269-3866-ND◆	18.42	13.82	10.23	EZ80190AZ050SG

◆ ***RoHS Compliant***

zilog Z8Plus™ Microcontrollers

Employing the experience gained from the industry-standard Z80 and Z8 cores, the Z8Plus offers increased functionality, significantly higher performance, lower power requirements, and greater cost savings over other 8-bit microcontrollers. The Z8Plus is designed to be easy to use, even for designers who have never used a microcontroller before.

With single-cycle execution, powerful I/O capabilities and register-to-register architecture, the Z8Plus offers state-of-the-art flexibility and freedom for any designer in search of a low-cost solution for a variety of microcontroller applications.

The Z8Plus core offers several significant advantages compared to the current Z8 core. Foremost is performance improvement due to a reduced system clock division and a fixed instruction cycle time. The improvement is nearly 50%, depending upon instruction mix. For example, a Z8Plus-based part at 10MHz has performance comparable to a 16MHz part in production today. This, along with significant design improvements, leads to lower power and lower noise operation.

The Z8PE002 and Z8PE003 microcontrollers are the newest members of the popular Z8E001 Z8 Plus 8-bit microcontroller family. New features include voltage brown-out protection and power-on reset. Additionally, the "RESET" pin has been replaced with a general purpose I/O pin and oscillator circuitry to support RC configurations. These new parts are targeted at customers who require a powerful, yet small OTP microcontroller for use in general purpose applications.

EMULATOR/PROGRAMMER

FEATURES: • In-Circuit Program Debug Emulation • Real-Time Emulation • ZDS Emulator Software • Window-Based User Interface • On-Line Help • One-Time Programmable (OTP) Support • Selectable Baud Rates: 9600 to 57.6 Kbps • Bisync Error-Correcting Communications Protocol

SPECIFICATIONS: OPERATING TEMPERATURE: 20°C ± 10°C **POWER REQUIREMENT:** +9.0 VDC @ 0.5A Minimum (Typical).

DIMENSIONS: • Width: 6.75 in. (17.15 cm) • Length: 7.50 in. (19.05 cm) • Height: 0.90 in. (2.30 cm) **SERIAL INTERFACE:** RS-232C @ 9600, 19200 (default), 28800, or 57600 Baud

HOST COMPUTER: Minimum Requirements: IBM PC (or 100% Compatible) 386-Based Machine: • 33 MHz • 4 MB RAM • VGA Video Adapter • Hard Disk Drive (2.5 MB Free Space) • 3.5-inch, High-Density (HD) Floppy Disk Drive • RS-232C Com Port • Mouse or Pointing Device • Microsoft Windows 3.1

KIT CONTENTS (One of Each): Z8M001 Emulator Board; **• Cable/Pods:** 18-Pin Emulation Pod Cable; 9-Pin M-F Serial Cable (6 ft.) **• Host Software:** Z8 Graphical User Interface (GUI); Zilog Macro Cross Assembler (ZMASM)/Zilog Developer Studio (ZDS) **• Documentation:** Zilog 1999 Technical Library CD ROM, which contains Z8 device data sheets, user manuals, application notes; Z8M001 Emulator User's Manual

Memory Size		I/O Lines	Oscillator Type External	Frequency Range Min/Max	Supply Voltage Range	Operating Temp. (°C)	Package	Required Emulator Tools	Required OTP Programming Tools	Digi-Key Part No.	Price Each			ZiLOG Part No.
Eprom	Ram										1	25	100	
512	32	13	XTAL/LC	DC - 10MHz	3.5 ~ 5.5	0 ~ 70	18-DIP	D	D	269-1117-ND	1.80	1.35	1.00	Z8E00010PSC
										269-3984-ND◆	1.80	1.35	1.00	Z8E00010PSG
1K	64	13	XTAL/LC	DC - 10MHz	3.5 ~ 5.5	0 ~ 70	18-DIP	D	D	269-1121-ND	2.28	1.71	1.26	Z8E00110PSC
							18-DIP	D	D	269-3986-ND◆	2.28	1.71	1.26	Z8E00110PSG
							18-SOIC	*	D, 2	269-1123-ND	2.28	1.71	1.26	Z8E00110SSC
							18-SOIC	*	D, 2	269-3987-ND◆	2.28	1.71	1.26	Z8E00110SSG
					4.5 ~ 5.5	-40 ~ 105	18-DIP	D	D	269-3985-ND◆	2.49	1.87	1.39	Z8E00110PEG
Z8PE002 / Z8PE003 Series														
512	64	14	XTAL/LC	DC - 10MHz	3.0 ~ 5.5	0 ~ 70	18-DIP	D	D	269-4290-ND◆	1.92	1.44	1.07	Z8PE002PZ010SG
							20-SSOP	*	D, 17	269-1132-ND	2.10	1.58	1.16	Z8PE002HZ010SC
							20-SSOP	*	D, 17	269-4289-ND◆	2.10	1.58	1.16	Z8PE002HZ010SG
					4.5 ~ 5.5	-40 ~ 105	20-SSOP	*	D, 17	269-1135-ND	2.28	1.71	1.27	Z8PE002HZ010EC
							20-SSOP	*	D, 17	269-4288-ND◆	2.28	1.71	1.27	Z8PE002HZ010EG
1K	64	14	XTAL/LC	DC - 10MHz	3.0 ~ 5.5	0 ~ 70	18-DIP	D	D	269-1136-ND	2.67	2.01	1.49	Z8PE003PZ010SC
							18-DIP	D	D	269-4293-ND◆	2.67	2.01	1.49	Z8PE003PZ010SG
							18-SOIC	*	D, 2	269-1137-ND	2.67	2.01	1.49	Z8PE003SZ010SC
							18-SOIC	*	D, 2	269-4295-ND◆	2.67	2.01	1.49	Z8PE003SZ010SG
							20-SSOP	*	D, 17	269-1138-ND	2.82	2.12	1.57	Z8PE003HZ010SC
							20-SSOP	*	D, 17	269-4291-ND◆	2.82	2.12	1.57	Z8PE003HZ010SG
					4.5 ~ 5.5	-40 ~ 105	18-SOIC	*	D, 2	269-1140-ND	2.94	2.21	1.63	Z8PE003SZ010EC
							18-SOIC	*	D, 2	269-4294-ND◆	2.94	2.21	1.63	Z8PE003SZ010EG

Key	Description	Digi-Key Part No.	Price Each	ZiLOG Part No.
Emulator / Programmer †				
D	Z8 Plus Emulator/Programmer (Power supply sold separately T405-P5P-ND recommended)	269-2033-ND	161.33	Z8ICE001ZEM

◆ ***RoHS Compliant*** * ZiLOG's emulators support this part, but the in-circuit target cable is configured for DIP only. For designs that require a surface mount package, accommodations will have to be made to use the emulator for in-circuit DIP emulation. † For OTP programming adapters, please refer to Z8 Series.

Turnkey Universal Remote Control Kit

The Crimzon RC Bullet™ Reference Design Kits are ideally suited for Universal Remote Control applications. These kits feature both learning and non-learning models with both three-in-one (Cable/Satellite, DVD/VCR, and TV) and six-in-one feature sets (Cable, Satellite, Audio, TV, DVD,VCR) for the North American and European marketplaces. Built on the Z8-based ZLx16300 and ZLx32300 IR MCU, and competitively priced, the kits give you everything needed to start manufacturing branded universal remote controls today.

269-3380-ND	USA, 3-Function, Non-Learning	**$129.00**
269-3381-ND	European, 3-Function, Non-Learning	**$129.00**
269-3382-ND	USA, 6-Function, Non-Learning	**$129.00**
269-3383-ND	European, 6-Function, Non-Learning	**$129.00**
269-3384-ND	USA, 6-Function, Learning	**$159.00**
269-4665-ND◆	USA, 6-Function, Learning	**$160.00**
269-3385-ND	European, 6-Function, Learning	**$159.00**

◆ ***RoHS Compliant***

Thermostat Application Module Kit

Thermostat Application Module provides a flexible platform for training and experimentation on a number of microcontroller and microprocessor devices.

The module contains no processor. It is designed to attach to the eZ80 development platforms, which contain both the processors and the control programs that make the development function.

Features:

- Simple bit-I/O (LEDs, switches, lamp, and fan)
- Alphanumeric LCD display via the GPIO interface
- Temperature sensor via the I²C interface
- EEPROM data storage via the I²C interface
- Flash program storage for eZ80 family devices

269-3198-ND **$85.00**

Z86L99 with IR Solutions

In-circuit emulators are interactive, Windows-oriented development tools, providing a real-time environment for emulation and debugging. Provides essential timing and I/O circuitry to simplify user emulation of prototype hardware and software products.

Features: • Supports up to 32K of ROM • Varies the operating voltage from 3.0-4.0V • Supports incircuit emulation on target systems that operate at 3.0-4.0V • Powers the In-Circuit Emulator (ICE) chip from either the emulator or target board • Supports IR devices that operate at up to 8MHz • Emulates 28-pin DIP and 40-pin DIP • Provides OTP programming for 28-pin DIP and SOIC packages, 40-pin PDIP, 48-pin SSOP • Multi-tasks with other Windows applications while Zilog Developer Studio (ZDS) is running

269-3241-ND	Z86L99 In-Circuit Emulator	**$850.00**
269-3238-ND	Z86D990; 48-SSOP	**$15.42**
269-3943-ND◆	Z86D990; 48-SSOP	**$15.42**
269-3239-ND	Z86D990; 40-DIP	**$14.61**
269-3944-ND◆	Z86D990; 40-DIP	**$14.61**

◆ ***RoHS Compliant***

PSoC® FirstTouch™ Embedded Design Starter Kit

Easy and Affordable Starter Kit to Accelerate Mixed-Signal Embedded Application Development

The Cypress PSoC FirstTouch starter kit provides a quick, easy, and affordable way for embedded customers to evaluate the integration, flexibility, and real mixed-signal programmability of PSoC mixed-signal arrays. Without writing a single line of C or Assembly code, you can experience the power of PSoC mixed-signal arrays. Right-out-of-the box you can see a single PSoC device perform several designs — Cypress CapSense™ touch sensing, temperature sensing, light sensing, and CapSense™ proximity sensing. And with Cypress's PSoC Express visual embedded system design tool, you can modify these designs as you wish or even create your own applications.

***ADVANTAGES* - Embedded Designs Available for Use Right Out of the Box**

Highly Integrated Programmable Kit Optimized for Embedded Applications

— Integrates four embedded applications in a single thumbdrive form factor
— General purpose I/O pins accessible for further evaluation and development
— Detachable multifunction expansion card enables adding PSoC functionality to existing system boards
— USB connectivity for convenient plug and play operation

Rapid Time to Market for Embedded Applications

— Design embedded control applications in minutes
— No C or Assembly code necessary with PSoC Express design software
— Accommodates last-minute design changes
— Real mixed-signal programmability provides complete analog and digital functionality on-chip

Design	Functionality	Applications
CAPSENSE TOUCH SENSING	Controls LED color depending on a finger's position on the CapSense touch sensing slider	White goods, handsets, consumer electronics, computers and computer peripherals
TEMPERATURE SENSING	Controls LED color and buzzer based on ambient temperature variation	Air conditioning, alarm systems, system and industrial fan control
LIGHT SENSING	Controls LED intensity based on ambient light variation	Consumer electronics, PCs, monitors, mobile phones
CAPSENSE PROXIMITY SENSING	Controls LED color based on proximity to a proximity sensor	White goods, handsets, consumer electronics, computers, and computer peripherals

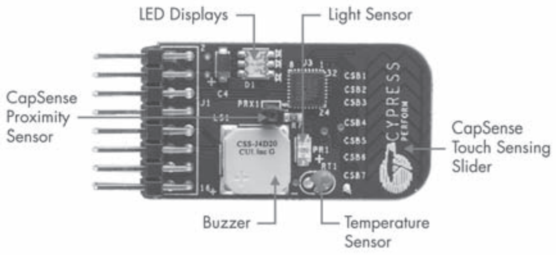

Visit **www.cypress.com/FirstTouch**
for more information.

428-2018-ND FirstTouch™ Starter Kit $29.95

PSoC® Mini Programming Kit

This evaluation kit allows a user to program PSoC devices via the MiniProg programming unit. A MiniEval board is also included in the kit. The MiniEval board is programming and evaluation board which allows socket programming of DIP devices. The MiniEval also includes LEDs and a POT for simple evaluation and demonstration, but does not include a prototyping area. The MiniProg1 utilizes a 5-pin ISSP header to program PSoC Devices on the MiniEval board or directly on a users target board.

CY3210-MiniProg1 Kit Includes:

• MiniProg Programming Unit • MiniEval Socket Programming and Evaluation Board • Device Samples • Cable • Software

CY3217 Kit Includes:

• MiniProg Programming Unit • USB Cable • Software

428-1585-ND	MiniProg1 Demo Board	**$57.70**
428-2021-ND	MiniProg Demo Board	**$24.65**

PSoC® Evaluation Kit

CY3210-PSoCEval1:

The PSoC Evaluation Kit features an evaluation board and MiniProg1 Programming unit. The evaluation board includes an LCD module, Potentiometer, LEDs and plenty of bread boarding space to meet all of your evaluation needs. The MiniProg1 programming unit will program PSoC devices directly on the evaluation board, or on other boards via a 5-pin header. The MiniProg1 is small and compact, and connects to the users PC via a provided USB 2.0 Cable

Kit Includes:

• Evaluation board with LCD module • MiniProg1 Programming unit • PSoC Designer Software CD • CY8C29466-24PXI Samples • USB 2.0 Cable • Getting Started Guide

428-1584-ND Evaluation Kit for PSoC with MiniProg1 .... **$115.00**

EZ-Color™ Evaluation Kit

CY3261A-RGB:

The CY3261A-RGB board is a preprogrammed HB LED color mix board with seven pre-set colors using the CY8CLED16 EZ-Color HB LED Controller. The board is accompanied by a CD containing the color selector software application, PSoC® Express 3.0, PSoC Programmer, and a suite of documents, schematics, and firmware examples. The color selector software application can be installed on a host PC and is used to control the EZ-Color HB LED controller using the included USB cable. The application enables you to select colors via a CIE 1931 chart or entering coordinates.

Kit Includes:

• RGB Industrial Lighting Demo Board • Power Supply • Software • Documentation

428-1953-ND Evaluation Kit for EZ-Color **$149.00**

PSoC® Development Kit

CY3215-DK:

The PSoC Development Kit includes an In-Circuit Emulator (ICE) which consists of a base unit, USB 2.0 cable, and power supply. The base unit is connected to the host PC via the USB port. The ICE is driven by the Debugger subsystem of PSoC Designer. This software interface allows the user to run, halt, and single step the processor. It also allows the user to set complex event points. Event points can start and stop the trace memory on the ICE, as well as break the program execution. In addition to the Development Kit, different Emulation Pods are available to support the range of devices in the PSoC family. The ICE-cube also serves as a single-site device programmer via an ISSP (In-System Serial Programming) Cable and MiniEval board included in the kit. The MiniEval board is a programming and evaluation board that connects to the ICE-Cube via an ISSP Cable and allows programming of DIP devices. There are also other Programming boards available for programming other packages.

System Requirements:

• 500MHz Processor • 256MB Ram • 150MB Free Space • USB Port • Windows®, NT4.0, 2000, Me, XP • Internet Explorer 6.0 • Adobe Acrobat Reader

Development Kit Includes:

• ICE-Cube Unit • Emulation Pod for CY8C29466-24PXI • CY8C29466-24PXI Samples • PSoC Designer Software CD • ISSP Cable • MiniEval Socket Programming and Evaluation board • Backward compatibility cable (for connecting to legacy Pods) • Power Supply European Plug Adapter • USB 2.0 Cable • Getting Started Guide • Development Kit Registration form • Image Craft C-Compiler License

428-1583-ND Development Kit for PSoC **$399.99**

CapSense™ Successive Approximation (CSA) Training Kit

CY3203A-CAPSENSE:

The CY3203A CapSense Training Kit includes software, hardware and example projects to help designers learn how to implement PSoC® CapSense in their own design using the CY8C20x34 family. A training board is included that is hardwired for buttons and sliders as well as LCD control and I^{2}C communication.

Kit Includes:

• Training Board (CY8C20x34) • PSoC Designer and Example Project CD • CSA User Module • Mini Programmer Unit • LCD Module • USB Cable

428-1924-ND Evaluation Kit for CapSense CSA **$88.99**

CapSense™ Sigma-Delta (CSD) Training Kit

CY3213A-CAPSENSE:

The CY3213A CapSense Training Kit includes software, hardware and example projects to help designers learn how to implement PSoC® CapSense in their own design using the CY8C21x34 family. A training board is included that is hardwired for buttons and sliders as well as LCD control and I^{2}C communication.

Kit Includes:

• Traning Board (CY8C21x34) • PSoC Designer and Example Project CD • CSD User Module • Mini Programmer Unit • LCD Module • USB Cable

428-1925-ND Evaluation Kit for CapSense Sigma Delta **$88.99**

PSoC® (Programmable System on Chip) Microcontrollers

The Programmable System-on-Chip (PSoC) microcontrollers integrate a microcontroller and the analog and digital components that typically surround it in an embedded system. Easy-to-use development tools enable designers to select the precise peripheral functionality they desire, including analog functions such as amplifiers, ADCs, DACs, filters and comparators and digital functions such as timers, counters, PWMs, SPI and UARTs.

The PSoC family's analog features include rail-to-rail inputs, programmable gain amplifiers and up to 14-bit ADCs with exceptionally low noise, input leakage and voltage offset. PSoC devices include up to 32KB of flash memory, 2KB of SRAM, an 8x8 multiplier with 32-bit accumulator, power and sleep monitoring circuits, and hardware I^2C USB and Capsense Technology communications.

Operating Voltage from 2.4V ~ 5.25V

Temperature Range: -40°C ~ 85°C

Analog Blocks	Digital Blocks	Flash	SRAM	HW Comm Bus	I/O	Vcc	Package	Digi-Key Part No.	Price Each			Cypress Part No.
									1	25	100	
1 CapSense	0	8K	512	I^2C	32	2.4 ~ 5.25	32-QFN	428-1914-ND	4.09	2.20	1.77	CY8C20434-12LKXI
4	4	4K	256	I^2C	6	2.4 ~ 5.25	8-SOIC	428-1682-ND	1.78	1.09	.89	CY8C21123-24SXI
					16		16-SOIC	428-1683-ND	2.08	1.28	1.04	CY8C21223-24SXI
					16		20-SSOP	428-1684-ND	2.13	1.31	1.07	CY8C21323-24PVXI
					16		24-QFN	428-1685-ND	2.38	1.46	1.19	CY8C21323-24LFXI
		8K	512	I^2C	12	2.4 ~ 5.25	16-SOIC	428-1611-ND	2.82	2.20	1.77	CY8C21234-24SXI
					16		20-SSOP	428-1612-ND	3.04	2.35	1.90	CY8C21334-24PVXI
					28		32-QFN	428-1613-ND	3.26	2.50	2.04	CY8C21434-24LFXI
					24		28-SSOP	428-1614-ND	3.28	2.55	1.97	CY8C21534-24PVXI
					26		32-QFN	428-1615-ND	3.54	2.75	2.22	CY8C21634-24LFXI
6	4	4K	256	I^2C	6	2.4 ~ 5.25	8-DIP	428-1602-ND	2.95	1.77	1.48	CY8C24123A-24PXI
					6		8-SOIC	428-1603-1-ND†	2.73	1.64	1.37	CY8C24123A-24SXIT
					6		8-SOIC	428-1603-2-ND‡	3270.00/2,500			CY8C24123A-24SXIT
					16		20-DIP	428-1604-ND	3.68	2.21	1.84	CY8C24223A-24PXI
					16		20-SSOP	428-1605-ND	3.35	2.01	1.68	CY8C24223A-24PVXI
					16		20-SOIC	428-1606-ND	3.65	2.19	1.83	CY8C24223A-24SXI
					24		28-SSOP	428-1608-ND	3.85	2.31	1.93	CY8C24423A-24PVXI
					24		28-SOIC	428-1609-ND	3.85	2.31	1.93	CY8C24423A-24SXI
					24		32-QFN	428-1610-ND	3.32	2.55	2.08	CY8C24423A-24LFXI
6	4	16K	1K	I^2C, USB	50	3 ~ 5.25	56-QFN	428-1651-ND	4.50	3.50	2.82	CY8C24794-24LFXI
6	2	16K	1K	I^2C, USB	49	3 ~ 5.25	56-QFN	428-1917-ND	5.85	3.50	2.82	CY8C24894-24LFXI
					56		100-VFBGA	428-1915-ND	7.38	4.55	3.69	CY8C24994-24BVXI
					56		68-QFN	428-1916-ND	7.38	4.55	3.69	CY8C24994-24LFXI
12	8	8K	256	—	16	3 ~ 5.25	20-SSOP	428-1640-ND	5.95	4.12	3.69	CY8C26233-24PVXI
		16K	256	—	24	3 ~ 5.25	28-SSOP	428-1643-ND	6.15	4.26	3.82	CY8C26443-24PVXI
					24		28-SOIC	428-1644-ND	6.18	4.28	3.83	CY8C26443-24SXI
12	8	16K	256	I^2C	6	3 ~ 5.25	8-DIP	428-1593-ND	5.00	3.00	2.50	CY8C27143-24PXI
					16		20-SSOP	428-1594-ND	5.40	3.24	2.70	CY8C27243-24PVXI
					16		20-SOIC	428-1595-ND	5.40	3.24	2.70	CY8C27243-24SXI
					24		28-DIP	428-1596-ND	5.90	3.54	2.95	CY8C27443-24PXI
					24		28-SSOP	428-1597-ND	5.68	3.41	2.84	CY8C27443-24PVXI
					24		28-SOIC	428-1598-ND	5.68	3.41	2.84	CY8C27443-24SXI
					44		48-SSOP	428-1600-ND	6.03	3.62	3.02	CY8C27643-24PVXI
					44		48-QFN	428-1601-ND	6.98	4.19	3.49	CY8C27643-24LFXI
12	16	32K	2K	I^2C	24	3 ~ 5.25	28-DIP	428-1586-ND	8.78	5.27	4.39	CY8C29466-24PXI
					24		28-SSOP	428-1587-ND	7.65	4.80	3.83	CY8C29466-24PVXI
					24		28-SOIC	428-1588-ND	7.65	4.59	3.83	CY8C29466-24SXI
					40		44-TQFP	428-1589-ND	8.53	5.12	4.27	CY8C29566-24AXI
					44		28-SSOP	428-1590-ND	8.03	4.82	4.02	CY8C29666-24PVXI
					44		48-QFN	428-1591-ND	9.15	5.49	4.58	CY8C29666-24LFXI
					64		100-TQFP	428-1592-ND	9.78	5.87	4.89	CY8C29866-24AXI

† Cut Tape ‡ Tape and Reel

NEW! CapSense Express™

The CapSense Express Family, supported by PSOC Express™ Visual Embedded System Design Tool and the CapSense Express Configuration Tool, is the quickest and easiest to use for touch sensing functionality. The CapSense Express family supports up to ten general purpose I/Os for buttons, multi-segment sliders, LEDs and other general purpose functions, all configured via I^2C registers.

Analog Blocks	Digital Blocks	Flash	SRAM	HW Comm Bus	I/O	Vcc	Package	Digi-Key Part No.	Price Each			Cypress Part No.
									1	25	100	
1 CapSense	0	2K	512	I^2C	10	2.4 ~ 5.25	16-QFN	428-2046-ND	2.23	1.78	1.34	CY8C20110-LDX2I
					10		16-SOIC	428-2047-5-ND	2.61	2.09	1.63	CY8C20110-SX2I
					4		16-QFN	428-2048-ND	2.70	2.16	1.68	CY8C20140-LDX2I
					4		16-SOIC	428-2049-5-ND	2.39	1.91	1.49	CY8C20140-SX2I
					4		8-SOIC	428-2050-5-ND	2.39	1.91	1.49	CY8C20142-SX1I
					6		16-QFN	428-2051-ND	2.70	2.16	1.68	CY8C20160-LDX2I
					6		16-SOIC	428-2052-5-ND	2.59	2.07	1.61	CY8C20160-SX2I
					8		16-QFN	428-2053-ND	2.70	2.16	1.68	CY8C20180-LDX2I
					8		16-SOIC	428-2054-5-ND	2.63	2.11	1.64	CY8C20180-SX2I
					10		16-QFN	428-2055-ND	2.70	2.16	1.68	CY8C201A0-LDX2I
					10		16-SOIC	428-2056-5-ND	2.70	2.16	1.68	CY8C201A0-SX2I

Port Expanders

Flash	I/O	Vcc	Package	Digi-Key Part No.	Price Each			Cypress Part No.
					1	25	100	
3KB EEPROM	28	3.0 ~ 5.25	28-SSOP	428-2015-5-ND	2.95	2.36	1.84	CY8C9520A-24PVXI
11KB EEPROM	48		48-SSOP	428-2016-5-ND	4.84	3.87	3.01	CY8C9540A-24PVXI
27KB EEPROM	100		100-TQFP	428-2017-ND	5.29	4.23	3.29	CY8C9560A-24AXI

EZ-Color™ High-Brightness LED Controllers

Cypress' EZ-Color family of devices offers the ideal control solution for High Brightness LED applications requiring intelligent dimming control.

EZ-Color devices combine the power and flexibility of PSoC® (Programmable System-on-Chip™); with Cypress' PrISM (Precise illumination signal modulation) drive technology providing lighting designers a fully customizable and integrated lighting solution platform.

EZ-Color devices support up to 16 independent LED channels with up to 32 bits of resolution per channel, enabling lighting designers the flexibility to choose the LED array size and color quality EZ-Color's virtually limitless analog and digital customization allow for simple integration of features.

LED Channels	Analog Blocks	Flash	SRAM	Package	Digi-Key Part No.	Price Each			Cypress Part No.	Development Kit
						1	25	100		
4	6	16KB	1KB	68-QFN	428-1947-ND	9.75	6.00	4.88	CY8CLED04-68LFXI	428-1953-ND
8	12	16KB	256B	48-QFN	428-1948-ND	19.25	11.85	9.63	CY8CLED08-48LFXI	
8	12	16KB	256B	48-SSOP	428-1949-5-ND	19.25	11.85	9.63	CY8CLED08-48PVXI	
16	12	32KB	2KB	28-SSOP	428-1950-5-ND	38.75	23.85	19.38	CY8CLED16-28PVXI	
16	12	32KB	2KB	48-QFN	428-1951-ND	38.75	23.85	19.38	CY8CLED16-48LFXI	
16	12	32KB	2KB	48-SSOP	428-1952-5-ND	38.75	23.85	19.38	CY8CLED16-48PVXI	

PSoC® Express Development Kit

CY3210-ExpressDK: The PSoC Express development kit provides a feature-rich hardware platform for developing and testing designs created with PSoC Express. This kit contains a complete PSoC Express development environment including a large, full featured development board, fan modules, proto modules, 28-DIP samples, and a MiniProg Programmer.
Kit Includes: • Development Board • Four Fan Modules • Two Proto Modules • MiniProg Insystem Programmer • MiniEval PCB Evaluation Board • Power Supply • PSoC Express CD-ROM • Jumper Wire Kit • Cables • PSoC DIP Samples

428-1636-ND	PSoC Express Development Kit	**$772.00**
428-1637-ND	Fan Module Kit	**$200.00**
428-1638-ND	Proto Module Kit	**$100.00**

PSoC® Express II Evaluation Kit

CY3210-PSOCEXPEVAL1: The PSoC Express Evaluation Kit is an all-in-one evaluation kit for experiencing first-hand the speed and depth of design offerings with PSoC Express, the code-free embedded development environment.
Kit Includes: • Two PSoC Evaluation boards • MiniProg USB Programmer • Cables • Software

428-1906-ND	Evaluation Kit for PSoC Express	**$97.00**
428-2025-ND	Evaluation Kit for PSoC Express II	**$122.00**

PSoC® with USB Evaluation Kit

Special features of the board include both USB and capacitive touch sense development and debugging support. The evaluation board also includes an LCD module, Potentiometer, LEDs, an enunciator, and plenty of bread boarding space to meet all of your evaluation needs.
The PSoCEvalUSB board features an on-chip debugger and can be connected directly to an ICE-Cube (available in the CY3215-DK) for full-featured, in-circuit emulation and debugging.
Kit Includes: • PSoCEvalUSB Board • LCD Module • MiniProg1 programmer • USB mini cable • Documentation and Software

428-1650-ND	Evaluation Kit for CY8C24794-24LFXI	**$98.99**

CY3202-C iMAGEcraft C-Compiler

The CY3202-C iMAGEcraft C-Compiler is fully integrated into the PSoC® Designer IDE. PSoC Designer supports C source level debugging. In order to activate the compiler, you must enable and upgrade.
Features: • ANSI C-Compiler • Supports In-line Assembly and can Interface with Assembly Modules • Stack-Based • 7 Basic Data Types • Assemble and Linker • Math and String Libraries • C-Interrupt Service Routines • Librarian

428-1413-ND	iMAGEcraft C-Compiler	**$168.00**

PSoC® ISSP (In-System Serial Programming) Programmer

The **ISSP Programmer** programs PSoC ICs with .hex files created with Cypress SemiConductor PSoC Designer™ software. The programmer programs a PSoC chip mounted on your PCB, one at a time. It connects to your PCB with a 5-wire cable and to your PC with a USB cable. Programming operation can be automated by incorporating the programmer into a PC-based test system. The tester software communicates with the programmer-control software through a command-line interface. The ISSP programmer can also be operated manually using the supplied Windows® GUI software.
Functions: • Program • Verify • Read • Flexible Connections to Target PSoC Devices: Devices can be inserted directly into ISSP, using an on-board 48-ZIF socket, connected via a test fixture or programmed in-system on a product circuit board.
System Requirements: • Windows®, NT, ME, 2000 or XP • CD-ROM • USB Port • 128 MB RAM
Kit Includes: • ISSP Programmer • ISSP Software CD-ROM • 6-Foot USB Cable • 2-Foot Programming Cable • 9V Power Supply • In-System Serial Programming (ISSP) CY3207ISSP User Guide

428-1495-ND	PSoC USB In-System Programmer	**$354.00**

PSoC® SD Card Module Evaluation Kit

CY3210-SDCARD: The SD Card Module Evaluation Kit assesses the PSoC SD Card user module's ability to quickly and easily write to, read from and seamlessly integrate an SD card module into an embedded design. SD flash memory technologies are quickly becoming the preferred solution for portable, consumer and industrial electronic devices around the world for storing a large amount of information in a small, durable, portable form factor. Note: The SD Card user module and the example projects for this evaluation kit require the use of a C compiler.
Kit Includes: • CY3210-PSoCEVAL • SD Card Adapter Board • SD Memory Card • USB to SD Card Reader • MiniProg1 • USB Cable • Power Supply • Software

428-1907-ND	Evaluation Kit for PSoC SD Card	**$260.00**

LIN Bus Reference Design Kit

CY3220LINBUS-RD: The design kit includes the necessary software, hardware, and example projects for designers to implement all of the functions of the LIN specifications without having to generate any new code. The LIN Protocol Specification is a low-speed communications standard used in many automotive applications, including body control, driver information, multimedia, climate control, safety equipment, cockpit electronics and Human Machine Interface (HMI).
Kit Includes: • LIN Bus Reference Design Board • Three pre-programmed and pre-installed PSoC devices (two bus slaves one CY8C27143-24PXI LIN and one CY8C27443-24PXI LIN and one bus master CY8C27443-24PXI LIN) • Software CD with Documentation, Example Projects, and Reference Design IP • 12V Power Supply • International Supply Adapter • DB9 Serial Cable

428-1926-ND	LIN Bus Reference Design Kit	**$308.00**

PIR Motion Detection Evaluation Kit

The **CY3236A-PIRMOTION EVK** allows you to evaluate Cypress' PSoC® device's ability to control a Pyroelectric Infrared (PIR) sensor to implement motion sensing applications such as automatic lighting controls, automatic door openers, security systems, kiosk wake-up and activating wireless cameras. The CY3236A-PIRMOTION EVK includes all of the software, hardware, example projects and documentation you need to implement all of these PIR sensing control functions in one flexible and powerful PSoC device, the CY8C27443.
Kit Includes: • PIR Motion Sensor Board • Power Supply • Software • Design Files

428-2022-ND	PIR Motion Evaluation Kit	**$129.00**

CapSense™ Proximity Detection Demonstration Kit

CY3235-PROXDET:
The CapSense Proximity Detection Demonstration Kit allows quick and easy demonstration of a PSoC® CapSense-enabled device (CY8C21434) to accurately sense the proximity of a hand or finger along the length of a wire antenna. The kit also includes the I2C to USB Bridge, which allows hardware and software debugging of PSoC applications by seamlessly connecting your PC's USB port to your application's I2C interface.
Kit Includes: • Proximity Detection Demo Board with Antenna • I2C to USB Debugging/Communication Bridge • USB Cable • Software • Quick Start Guide

428-1909-ND	Evaluation Kit for PSoC Proximity Detection	**$73.34**

PSoC® CapSense™ Kits

CY3220-FPD:
This PSoC Demonstration Kit features a discrete button demonstration board for the Cypress CapSense solution. The board features eight CapSense buttons that control an LCD Module in a car radio configuration. The board is built using the CY8C21534-24PVXI PSoC, the only component necessary for sensing. The PSoC senses the presence of a finger or other capacitive element through 3mm ABS plastic.
Kit Includes: • Demonstration Board • User Guide • Documentation and Software CD • Power Supply

CY3212-CAPSENSE:
This PSoC Training Kit includes software, hardware and example projects to help designers learn how to implement PSoC CapSense in their own design. A training board is included that is hard wired for buttons and sliders as well as LCD control and 12C communication.
Kit Includes: • Training board • PSoC Designer and Example Project CD • CSR User Module • Mini Programmer unit • LCD Module • USB Cable

428-1652-ND	PSoC CapSense Demo Kit (CY3220-FPD)	**$102.00**
428-1705-ND	PSoC CapSense Training Kit (CY3212-CAPSENSE)	**$117.00**

NEW! CapSense™ Express Evaluation Kits

The CapSense Express evaluation kits enable designers to replace mechanical buttons by implementing touch sensing designs in minutes with the newest CapSense Touch Sensing Family, CapSense Express. With Cypress's PSoC Express™ visual embedded system design tool and CapSense Express configuration tool, designers configure, monitor, and tune up to 10 I/O's for buttons, LEDs and other general purpose I/O's over I2C in a real time using a graphical user interface.

CY3218-CAPEXP1 Kit Includes: • CapSense Evaluation Board with CY8C20110-LDX2I • CY3240-I2USB Bridge Board • USB Cable • Battery

CY3218-CAPEXP2 Kit Includes: • CapSense Slider Evaluation Board with CY8C201A0-LDX2I • CY3240-I2USB Bridge Board • USB Cable • Battery

CY3218-CAPEXP3 Kit Includes: • CapSense Evaluation Board with CY8C20142-SX2I • CY3240-I2USB Bridge Board • USB Cable • Battery

428-2043-ND	CapSense Evaluation Board Kit (CY3218-CAPEXP1)	**$52.50**
428-2044-ND	CapSense Slider Evaluation Board Kit (CY3218-CAPEXP2)	**$52.50**
428-2045-ND	CapSense Evaluation Board Kit (CY3218-CAPEXP3)	**$52.50**

Universal CapSense™ Controller Kit

CY3280-BK1:

Designed for easy development and debugging of any CapSense design. It includes pre-defined control circuitry and plug-in hardware, along with controller boards for both the CY8C20x34 and CY8C21x34 PSoC devices. It also offers a breadboard module and a module for implementing up to five buttons and a slider with sample overlays to encompass a wide variety of designs.

Kit Includes: • Universal Capsense Controller Boards • CapSense Linear Slider Module • CapSense Protyping Module • CY3240-I2USB Board • CY3210 MiniProg1 Programmer • Software

428-2033-ND	Universal CapSense Controller Kit	**$177.00**

PSoC® I2C to USB Bridge Kit

CY3240-I2USB:
The I2C to USB Bridge is a quick and easy link from any design or application's I2C bus to a PC via USB for design testing, debugging and communication. The bridge is based on 1 of Cypress' CY8C24894, which contains 6 analog blocks supporting ADCs, DACs and filters, 4 digital blocks supporting PWMs, timers and counters, and a Full-Speed USB 2.0 peripheral.

Kit Includes:
• I2C USB Bridge • I2C Slave Demonstration Board • USB Mini B Cable • Software CD

428-1910-ND	Evaluation Kit for PSoC I2C to USB	**$78.01**

PSoC® I2C Port Expander Evaluation Kits

The I2C Port Expander Evaluation Kit allows you to easily assess the following value propositions of Cypress' I2C port expander ICs from other vendors and flexibly integrates I/O expansion, PWM functions and user EEPROM. The kit also includes the I2C to USB Bridge, which allows hardware and software debugging of PSoC applications by seamlessly connecting your PC's USB port to your application's I2C interface.

CY3242-IOX Kit Includes:
• Port Expander Demo Board using containing CY8C9520/40/60 Port Expanders • I2C to USB Bridge • USB Cable • Documentation
CY3242-IOXLITE Kit Includes:
• I2C Port Expander Demo Board using CY8C9520 Port Expander • USB Cable • Documentation

428-1911-ND	CY3242-IOX Evaluation Kit	**$645.00**
428-2023-ND	CY3242-IOXLITE Evaluation Kit	**$129.00**

Emulation Kits and Accessories

For use with the 428-1583-ND (CY3215-DK) PSoC® Development Kit

Emulation Kits

Function: Provides Connection Between ICE-Cube and Target
Contents: 1 Flexcable, 1 Pod, 2 Pod Feet

For Use With	Digi-Key Part No.	Price Each
CY8C21x23	428-1886-ND	198.99
CY8C21x23 QFN Package	428-1871-ND	198.99
CY8C21x34	428-1887-ND	198.99
CY8C21x34 QFN Package	428-1872-ND	198.99
CY8C24x23A	428-1883-ND	198.99
CY8C24x23A QFN Package	428-1868-ND	198.99
CY8C24x94 QFN Package	428-1867-ND	198.99
CY8C27xxx	428-1884-ND	198.99
CY8C27xxx QFN Package	428-1869-ND	198.99
CY8C29xxx	428-1885-ND	198.99
CY8C29xxx QFN Package	428-1870-ND	198.99
CY8C20334 QFN Package	428-1955-ND	231.00
CY8C20434 QFN Package	428-1957-ND◆	231.00

◆ ***RoHS Compliant***

Evaluation Pods

Function: Allows evaluation of a device family using 28-DIP connector

Family	Digi-Key Part No.	Price Each
C48C20x34	428-1994-ND	123.00
C48C21x23	428-1995-ND	123.00
C58C21x34	428-1996-ND	123.00
CY8C24x23	428-1997-ND	123.00
CY8C24x94	428-1998-ND	123.00
CY8C27x43	428-1999-ND	123.00
CY8C29x66	428-2000-ND	123.00

Foot Kits

Function: Replacement Pod Feet **Contents**: 4 Pod Feet

Package	Digi-Key Part No.	Price Each
8-DIP	428-1890-ND	94.99
20-DIP	428-1888-ND	109.00
28-DIP	428-1889-ND	94.99
8-SOIC	428-1894-ND	109.00
16-SOIC	428-1891-ND	109.00
20-SOIC	428-1892-ND	109.00
28-SOIC	428-1893-ND	94.99
20-SSOP	428-1895-ND	94.67
28-SSOP	428-1896-ND	94.99
48-SSOP	428-1897-ND	94.66
44-TQFP	428-1899-ND	109.00
100-TQFP	428-1898-ND	256.25
24-QFN	428-1873-ND	197.00
32-QFN	428-1874-ND	169.99
48-QFN	428-1875-ND	169.99
56-QFN	428-1876-ND	169.99

Pod Kits

Function: Replacement Pod Kit
Contents: 2 Pods

For Use With	Digi-Key Part No.	Price Each
CY8C21x23	428-1904-ND	131.00
CY8C21x23 QFN Package	428-1881-ND	131.00
CY8C21x34	428-1905-ND	113.34
CY8C21x34 QFN Package	428-1882-ND	131.00
CY8C24x23A	428-1901-ND	131.00
CY8C24x23A QFN Package	428-1878-ND	131.00
CY8C24x94 QFN Package	428-1877-ND	131.00
CY8C27xxx	428-1902-ND	113.32
CY8C27xxx QFN Package	428-1879-ND	131.00
CY8C29xxx	428-1903-ND	131.00
CY8C29xxx QFN Package	428-1880-ND	131.00
CY8C20334 QFN Package	428-1956-ND◆	131.00
CY8C20434 QFN Package	428-1958-ND◆	131.00
Replacement Flex Cable for CY3250 Pod Kits	428-1866-ND	99.99

◆ ***RoHS Compliant***

CPLDs

Cypress offers a wide range of Programmable Logic Devices From PALs with 10 macrocells and 200 gates up to CPLDs with 3072 macrocells and 200,000 gates. Cypress also provides voltages ranging from 2.5V up to the typical 5.0V.

The Ultra37000™ family of CMOS CPLDs provides a range of high-density programmable logic solutions with unparalleled system performance. The Ultra37000 family is designed to bring the flexibility, ease of use, and performance of the 22V10 to high-density CPLDs. The architecture is based on a number of logic blocks that are connected by a Programmable Inter-connect Matrix (PIM). Each logic block features its own product term array, product term allocator, and 16 macrocells. The PIM distributes signals from the logic block outputs and all input pins to the logic block inputs. All of the Ultra37000 devices are electrically erasable and In-System Reprogrammable (ISR).

The Delta39K™ ISR™ CPLD Family based on a 0.18 µm, six-layer metal CMOS logic process, offers a wide range of high-density solutions at unparalleled system performance. The Delta39K family is designed to combine the high speed, predictable timing, and ease of use of CPLDs with the high densities and low power of FPGAs. With devices ranging from 15,000 to 200,000 usable gates, the family features devices ten times the size of previously available CPLDs. Even at these large densities, the Delta39K family is fast enough to implement a fully synthesizable 64-bit, 66-MHz PCI core.

Voltage	Memory Type	Tpd (ns)	Macrocells	Gates	Option Power	I/O	Package	Digi-Key Part No.	Price Each			Cypress Part No.
									1	25	100	
ULTRA 37000 CPLDs												
5.0	Flash	6	64	2,000	Standard	69	100-TQFP	428-1722-ND	9.83	8.85	7.85	CY37064P100-125AXC
		6	64	2,000	Standard	37	44-TQFP	428-1723-ND	8.00	6.40	5.40	CY37064P44-125AXC
		7.5	192	5,700	Standard	125	160-TQFP	428-1724-ND	22.65	21.14	19.63	CY37192P160-125AXC
		7.5	256	7,700	Standard	133	160-TQFP	428-1725-ND	32.40	30.24	28.08	CY37256P160-125AXC
		6	64	200	Standard	69	100-TQFP	428-1936-ND	10.75	9.68	8.58	CY37064P100-125AXI
3.3	Flash	8.5	64	200	Standard	37	44-TQFP	428-1937-ND	8.00	6.40	5.40	CY37064VP44-100AXC
DELTA 39K ISR CPLDs												
2.5 ~ 3.3	Flash	7.2	512	30K	Lp	136	208-PQFP	428-1939-ND	49.14	45.87	42.59	CY39030V208-125NTXC

Delta39K/Ultra37000 ISR Programming Kit

The Delta39K/Ultra37000 ISR Programming Kit enables users to program Ultra37000, Ultra37000V, Delta39K, and PSI CPLDs on board with our ISR Programming Software, the USBISR Programming Cable, and a personal computer. The USBISR Programming Cable connects to a USB 1.1USB 2.0 of a PC into a standard 10-pin male connector mounted on the user's board. The ISR software provides an easy-to-use Graphical User Interface that accepts JEDEC or hex files as input. The JEDEC/.hex files are used to compose platform independent STAPL.SVF files. STAPL/SVF files contain all the information needed to program the device. The ISR software is used to define how many devices are in the daisy chain and what operation is to be done on each Cypress device. The same chain can be used with other JTAG-compliant devices. The ISR User's Guide describes the operation of the ISR software. The application notes included with the kit describe all system design considerations for programming with this Programming Kit.

Features: • Supports Cypress' Ultra37000™, Ultra37000V™, Delta39K™, and PSI™ families of products • STAPL (chain dependent and chain independent) programming language support • SVF programming language support • Standard JTAG programming interface • Multi-device programming • Easy to use interface that is compatible with Windows XP™, Windows 2000™, Windows ME™, Windows98™, and Windows NT™ • Elimination of programming insertion which improves manufacturing efficiency, ability to program in the lab, on the manufacturing floor and at remote sites • Automatic test equipment (ATE) support via STAPL on ATE platforms.

CY3950I Includes:
UltraISR™ Programming Cable for use with Ultra37000, Delta39K, and PSI CPLD families, ISR Programming, ISR Application Notes, and a Delta39K/Ultra37000™ Prototype Board.

428-2019-ND ISR Programming Kit **$103.00**

FTG Programming Kits

CY3670

The CY3670 FTG programming kit provides users with a PC the ability to program Cypress EPROM Field-Programmable Clock Generators quickly and easily. The two setup requirements are a power connection and a serial port connection with the PC.

Features: • Supports multiple Cypress EPROM Field Programmable Clock Generators: CY2071AF, CY2291F, CY2292F, CY2292FZ, CY2907F8, and CY2907F14 • Separate device-specific socket adapters • Allows quick and easy prototyping • Compact design for ease of portability • Easy to use interface: Windows compatible • User-friendly CYClocks™ software for JEDEC file development

Kit Includes: • Programmer Unit • Serial Port Cable • AC/DC Adapter • CD containing • CyClocks Software • CY_FTG_V2 Programmer Software • Data sheets of supported devices • Device-specific socket adapters for the CY2071AF and CY2292F (socket adapters for the other devices are ordered separately)

428-1457-ND FTG Programming Kit **$385.00**
428-2042-ND ***NEW!*** Socket Adapter for CY2071AF **$131.00**

CY3672-USB

The CY3672 programming kit enables any user with a PC the ability to program Field Programmable Clock generators quickly and easily. The only two setup requirements are a power connection and a parallel port connection with the PC.

Features:

• Supports Field Programmable Clock Generators: CY2077FS, CY2077FZ, CY22050F, CY22150F, CY22381F, CY22392F, CY22393F, CY22394F, and CY22395F • Allows quick and easy prototyping • Compact design for ease of portability • Easy to use Windows 95, 98, NT,2K, ME, XP compatible interface • User friendly CYClocksRT™ software for JEDEC file development

Kit Includes:

• Parallel Port cable • AC/DC adapter • CD containing: CyClocksRT, CY3672 programmer interface software, and data sheets

428-1918-ND FTG Programming Kit **$385.00**

CY7C6XXX Series Of USB Microcontrollers

Cypress offers the industry's broadest line of USB microcontrollers, as well as a full set of development tools, supporting cost-driven applications such as keyboards and mice, as well as high-performance applications like printers, scanners, xDSL modems, and digital cameras. Cypress has a wide range of solutions for Low-Speed USB applications, Full-Speed USB Applications and USB Hub Applications. Temperature range, commercial (0°F ~ 70°F).

The CY7C63xxx is a family of 8-bit RISC One Time Programmable (OTP) microcontrollers. In addition, the microcontroller features 96 ~ 256 bytes of internal RAM depending on the device. The Cypress USB Controller accepts a 6MHz ceramic resonator as its clock source. This clock signal is doubled within the chip to provide a 12MHz clock for the microprocessor.

The CY7C64013 is an 8-bit One Time Programmable microcontroller that is designed for full-speed USB applications. The instruction set has been optimized specifically for USB operations, although the microcontrollers can be used for a variety of non-USB embedded applications.

The CY7C647XX (EZ-USB FX1™) is a family of full-speed highly integrated, USB microcontrollers. The FX1 family integrates the USB transceiver, serial interface engine (SIE), enhanced 8051 microcontroller, and a programmable peripheral interface in a single chip. The General Programmable Interface (GPIF) and Master/Slave Endpoint FIFO (8- or 16-bit data bus) provides an easy and glueless interface to popular interfaces such as ATA, UTOPIA, EPP, PCMCIA, and most DSP/processors.

The CY7C68013-56PVC (EZ-USB FX2) is a single-chip integrated USB 2.0 Transceiver, Serial Interface Engine (SIE), and Enhanced 8051 Microprocessor, High Speed 480Mbits/sec. Enhanced 8051 microcontroller, and a programmable peripheral interface in a single chip. Integrated I^{2}C-compatible controller, runs at 100 or 400kHz, 48MHz, 24MHz, or 12MHz 8051 operation. Four integrated FIFOs, brings glue and FIFO inside for lower system cost. Automatic conversion to and from 16-bit buses, master or slave operation. FIFOs can use externally supplied clock or asynchronous strobes. Easy interface to ASIC and DSP ICs, up to 40 general purpose I/Os.

The CY7C65 Series offers high-performance, fixed-function Universal Serial Bus (USB) hub devices which comply with USB Specification, Revision 1.1. Up to four downstream USB ports are available to expand the USB attachment points available in your PC system. These self-contained devices require no firmware development for your design, thereby reducing the design risk associated with some microcontroller solutions. These Application-Specific Standard Products (ASSP) can improve time-to-market in a number of USB designs, including standalone hubs, motherboard hubs, and monitor hubs.

The CY7C68001 (EZ-USB SX2™) USB interface device is designed to work with any external master, such as standard microprocessors, DSPs, ASICs, and FPGAs to enable USB 2.0 support for any peripheral design. SX2 has a built-in USB transceiver and Serial Interface Engine (SIE), along with a command decoder for sending and receiving USB data. The controller has four endpoints that share a 4KB FIFO space for maximum flexibility and throughput, as well as Control Endpoint 0. SX2 has three address pins and a selectable 8- or 16- bit data bus for command and data input or output.

The SL811HS is a single-chip, dual-speed USB Embedded Host controller that can operate as either a USB Host or USB peripheral device. The SL811HS can interface to devices such as microprocessors, microcontrollers, DSPs or directly to a variety of buses such as ISA, PCMCIA and others.

The CY7C67300 (EZ-Host™) is Cypress Semiconductor's first full-speed, low-cost multiport host/peripheral controller. EZ-Host is designed to easily interface to most high-performance CPUs to add USB host functionality. EZ-Host has its own 16-bit RISC processor to act as a coprocessor or operate in standalone mode. EZ-Host also has a programmable I/O interface block allowing a wide range of interface options.

The Wireless enCoRe™ II family brings the features and benefits of the enCoRe™ II to non-USB applications. The enCoRe™ II family has an integrated oscillator that eliminates the external crystal or resonator, reducing overall cost. Also integrated into this chip are other external components such as wake-up circuitry.

EPROM Memory Size	RAM	External Oscillator Speed	Configuration	USB Application Speed	Number I/O	Core Arch.	Temperature Range	Voltage	Pin Count Package	Digi-Key Part No.	Price Each			Cypress Part No.
											1	25	100	
Low Speed USB Microcontrollers														
4K	128	6MHz Resonator	OTP	1.5Mbps	12	M-8	0°C ~ 70°C	4.0 ~ 5.25	20-SOIC	428-1313-ND	3.30	2.05	1.65	CY7C63001A-SC
					12	M-8	0°C ~ 70°C	4.0 ~ 5.25	20-DIP	428-1849-ND◆	2.64	2.12	1.79	CY7C63001C-PXC
					12	M-8	0°C ~ 70°C	4.0 ~ 5.25	20-SOIC	428-1850-ND◆	2.64	2.12	1.79	CY7C63001C-SXC
					16	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-QSOP	428-1314-ND	3.90	2.40	1.95	CY7C63101A-QC
					16	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-QSOP	428-1618-ND◆	3.90	2.40	1.95	CY7C63101A-QXC
3K	96	6MHz Resonator	OTP	1.5Mbps	12	M-8	0°C ~ 70°C	4.0 ~ 5.25	18-SOIC	428-1719-5-ND◆	2.64	2.12	1.79	CY7C63231A-SXC
8K	256	6MHz Resonator	OTP	1.5Mbps	32	M-8	0°C ~ 70°C	4.0 ~ 5.25	48-SSOP	428-1319-ND	4.28	2.65	2.14	CY7C63413-PVC
					32	M-8	0°C ~ 70°C	4.0 ~ 5.25	48-SSOP	428-1852-ND◆	3.85	3.08	2.40	CY7C63413C-PVXC
					11	M-8	0°C ~ 70°C	4.0 ~ 5.25	18-DIP	428-1854-ND◆	3.24	2.60	2.02	CY7C63723C-PXC
					11	M-8	0°C ~ 70°C	4.0 ~ 5.25	18-SOIC	428-1323-ND	3.60	2.25	1.80	CY7C63723-SC
					11	M-8	0°C ~ 70°C	4.0 ~ 5.25	18-SOIC	428-1855-ND◆	3.24	2.60	2.02	CY7C63723C-SXC
					17	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-DIP	428-1324-ND	3.88	2.40	1.94	CY7C63743-PC
					17	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-DIP	428-1856-ND◆	3.49	2.79	2.17	CY7C63743C-PXC
					17	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-SOIC	428-1325-ND	3.88	2.40	1.94	CY7C63743-SC
					17	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-SOIC	428-1622-ND◆	3.88	2.40	1.94	CY7C63743-SXC
					17	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-SOIC	428-1857-ND◆	3.49	2.79	2.17	CY7C63743C-SXC
Medium Performance Full-Speed Microcontrollers — RoHS Compliant														
8K	256	6MHz Xtal	OTP	12Mbps	19	M-8	0°C ~ 70°C	4.0 ~ 5.25	28-SOIC	428-1634-ND	5.02	4.02	3.39	CY7C64013A-SXC
					19	M-8	0°C ~ 70°C	4.0 ~ 5.25	28-SOIC	428-1847-ND	5.67	4.54	3.53	CY7C64013C-SXC
					19	M-8	0°C ~ 70°C	4.0 ~ 5.25	28-DIP	428-1635-ND	5.04	4.04	3.41	CY7C64013A-PXC
EZ-USB FX1™ Full-Speed USB — RoHS Compliant														
—	16K	24MHz Xtal	RAM	12Mbps	40	8051	0°C ~ 70°C	3.3	128-TQFP	428-1678-ND	10.13	6.25	5.07	CY7C64713-128AXC
					40	8051	0°C ~ 70°C	3.3	100-TQFP	428-1679-ND	9.55	5.95	4.78	CY7C64713-100AXC
					24	8051	0°C ~ 70°C	3.3	56-QFN	428-1680-ND	8.65	5.40	4.33	CY7C64713-56FXC
USB 2.0 (High Speed) — RoHS Compliant														
—	16K	24MHz Xtal	RAM	12/480Mbps	40	8051	0°C ~ 70°C	3.3	100-TQFP	428-1667-ND	15.93	9.85	7.97	CY7C68013A-100AXC
					40	8051	0°C ~ 70°C	3.3	128-TQFP	428-1668-ND	16.88	10.40	8.44	CY7C68013A-128AXC
					40	8051	-40°C ~ 85°C	3.3	128-TQFP	428-1943-ND	20.25	18.90	17.55	CY7C68013A-128AXI
					24	8051	0°C ~ 70°C	3.3	56-QFN	428-1669-ND	15.08	9.30	7.54	CY7C68013A-56LFXC
					24	8051	0°C ~ 70°C	3.3	56-SSOP	428-1627-ND	14.40	8.95	7.80	CY7C68013A-56PVXC
					24	8051	-40°C ~ 85°C	3.3	56-SSOP	428-1944-5-ND	17.28	16.13	14.98	CY7C68013A-56PVXI
					40	8051	0°C ~ 70°C	3.3	100-TQFP	428-1670-ND	18.33	11.30	9.17	CY7C68014A-100AXC
					40	8051	0°C ~ 70°C	3.3	128-TQFP	428-1671-ND	19.43	12.00	9.72	CY7C68014A-128AXC
					24	8051	0°C ~ 70°C	3.3	56-QFN	428-1672-ND	17.35	10.70	8.68	CY7C68014A-56LFXC
					24	8051	0°C ~ 70°C	3.3	56-SSOP	428-1673-ND	16.58	10.25	8.29	CY7C68014A-56PVXC
					26	8051	0°C ~ 70°C	3.3	56-QFN	428-1674-ND	15.80	9.80	7.90	CY7C68015A-56LFXC
					26	8051	0°C ~ 70°C	3.3	56-QFN	428-1676-ND	18.18	11.25	9.09	CY7C68016A-56LFXC
USB HUB and Integrated HUB Solutions — RoHS Compliant														
8K	256	24MHz Xtal	OTP	12Mbps Hub	4-port	M-8	0°C ~ 70°C	3.3	56-QFN	428-1805-ND	10.71	8.57	6.67	CY7C65640A-LFXC
		6MHz Xtal			39 (4-port)	M-8	0°C ~ 70°C	4-5.5	56-TSSOP	428-1808-ND	4.43	4.13	3.84	CY7C66113C-PVXC
EZ-USB SX2™ High Speed USB Interface — RoHS Compliant														
—	—	24MHz	N/A	12/480Mbps	—	None	0°C ~ 70°C	3.3	56-SSOP	428-1864-ND	11.16	7.22	6.77	CY7C68001-56PVXC
					—	None	0°C ~ 70°C	3.3	56-QFN	428-1942-ND	9.38	7.51	6.34	CY7C68001-56LFXC
USB Host/Slave Controller — RoHS Compliant														
—	256	12-48MHz Xtal	RAM	1.5-12Mbps	8	No CPU	0°C ~ 65°C	3.3	48-TQFP	428-1721-ND	9.20	7.36	6.21	SL811HST-AXC
EZ-Host™ USB Host/Peripheral Controller — RoHS Compliant														
8K	16K	12MHz	ROM/RAM	—	32	CY16	-40°C ~ 85°C	3.3	100-TQFP	428-1865-ND	9.76	8.79	7.80	CY7C67300-100AXI
Wireless enCoRe™ II Microcontroller — RoHS Compliant														
8K	256	12MHz	—	—	36	M8C	0°C ~ 70°C	2.7 ~ 3.6	48-SSOP	428-1795-ND	4.64	3.71	2.89	CY7C60123-PVXC
					20	M8C	0°C ~ 70°C	2.7 ~ 3.6	24-QSOP	428-1798-ND	2.93	2.34	1.82	CY7C60223-QXC
					20	M8C	0°C ~ 70°C	2.7 ~ 3.6	24-SOIC	428-1799-ND	3.08	2.47	1.92	CY7C60223-SXC

◆ ***RoHS Compliant***

CY7B923 HOTLink

The **CY7B923 HOTLink Transmitter and CY7B933 HOTLink Receiver** are point-to-point communications building blocks that transfer data over high-speed serial links (fiber, coax, and twisted pair). Standard HOTLink data rates range from 160-330 Mbits/second. Higher speed HOTLink is also available for high-speed applications (160-400 Mbits/second), as well as for those low-cost applications HOTLink-155 (150-160 Mbits/second operations).

Features:
• Fibre-Channel compliant • IBM ESCON compliant • DVB-ASI compliant • ATM compliant • B/10B coded or 10-bit unencoded • Standard HOTLink: 160–330Mbps • High-speed HOTLink 160–400 Mbps for high-speed applications • Low-speed HOTLink: 150–160Mbps for low-cost fiber

Applications:
• TTL synchronous I/O • No external phase-locked-loop (PLL) components • Triple PECL 100K serial outputs • Dual PECL 100K serial inputs • Low power: 350mW (Tx), 650mW (Rx) • Compatible with fiber optic modules, coaxial cable, and twisted pair media • Built-In Self-Test • Single +5V supply • 28-pin SOIC/PLCC/LCC • 0.8 BiCMOS

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
Transmitter, Standard Speed	28-PLCC	428-1706-5-ND	56.20	44.96	37.94	CY7B923-JXC
	28-SOIC	428-1707-5-ND	56.20	44.96	37.94	CY7B923-SXC
Receiver, Standard Speed	28-PLCC	428-1708-5-ND	56.20	44.96	37.94	CY7B933-JXC
	28-SOIC	428-1709-5-ND	56.20	44.96	37.94	CY7B933-SXC

Developer Kits

CY3674

The development kits for the EZ-USB FX™ family provide complete hardware and software solutions for accelerating the firmware and device driver development for all the products in the family. The development kits use the actual silicon for the entire development. Software utilities and example of firmware allow the user to generate USB traffic in hours, not weeks! Includes an evaluation version of the 8051 Keil Software Tools in the Full Speed USB 2.0 development kit. The evaluation version of the C-Compiler lets the designer write 8051 microcontroller applications in C and still get the efficiency and speed of assembly language. Advanced features from Keil Tools include the ability to single step through code. This makes it easy to detect errors, handle source level debugging, and set breakpoints. With the ability to debug code one line at a time and to quickly compile and one-step download new code, developers have a more efficient means to complete firmware faster than using emulators. The supplied Keil Tools are fully functional, but are limited in object size to 4 kilobytes.

Devices Supported: CY7C64713-56LFXC, CY7C64713-100AXC, CY7C64713-128AXC

Kit Includes: • EZ-USB Development Board with CY7C64713-128AXC • Peripheral Board for prototyping • USB cable • RS-232 9-pin to 9-pin cable

428-1681-ND	EZ-USB FX1 Development Kit	**$490.00**

CY3684

The CY3684 development kit for the EZ-USB FX2LP™ family provides complete hardware and software solutions for accelerating the firmware and device driver development for all of the products in the family. The development kits use the actual silicon for the entire development. Software utilities and example firmware allow the user to generate USB traffic in hours, not weeks! Includes an evaluation version of the 8051 Keil Software Tools. The evaluation version of the C-Compiler lets the designer write 8051 microcontroller applications in C and still get the efficiency and speed of assembly language. The supplied Keil tools are fully functional, but are limited in object size to 4 kilobytes.

Kit includes: • EZ-USB development board • Peripheral board for prototyping • USB cable • RS232 9-pin to 9-pin cable

428-1677-ND	Development Kit for EZ-USB FX2LP	**$525.00**

CY3654

CY3654 Base-Board: Common base board for a variety of our M8 Series products. To emulate a specific USB device within a family, the appropriate personality board needs to be purchased (CY3654-Pxx). Each USB family will have a unique personality board. The base board will only work when supplemented by one of the family specific personality boards. CY3654 Development Kit includes a CY3654 Base board, a RS-232 Cable, and a Power Supply.

Personality Boards: Cypress offers a variety of Personality Boards that accompany the CY3654 Base Board for use in specific applications.

Kits Includes: • CY3654Px00 Personality Board • CY3654Dx00 Applications Board • Target µC Adapters • Target Flex Cable • Application Cables

The following is a list of current offerings:

CY3654 and CY3654-P02: Base Board and Personality Board is a development environment in support of a variety of applications such as keyboards and other low speed devices requiring more I/O. The CY3654 and CY3654-P02 is designed for use with CY7C634XX, CY7C635XX, and CY7C636XX M8 based parts.

CY3654 and CY3654-P03: Base Board and Personality Board is a development environment in support of a variety of applications such as full-speed peripherals, hubs, and hub plus integrated peripheral applications. The CY3654 and CY3654-P03 is designed for use with CY7C64x13 (full-speed), CY7C65x13 and CY7C66x13 (hubs) M8 based parts.

CY3654: Base Board and Personality Board is a development environment in support of a variety of applications such as mice or other low speed USB peripherals. The CY3654 is designed for use with CY7C632XXA, and CY7C637XX M8 based parts. Note: A Complete Development Kit consists of the Base Board plus a Personality Board. Other Personality Boards can be used with the same CY3654 Base Board. Please specify both the base-board CY3654, and Personality board CY3654-P02, when ordering this particular kit.

Description	Devices Supported	Digi-Key Part No.	Price Each	Cypress Part No.
Base Board	All USB Personality Boards CY series	428-1337-ND	868.75	CY3654
Personality Board	CY7C634XX, CY7C635XX and CY7C636XX	428-1338-ND	400.00	CY3654-P02
	CY7C64X13 (full-speed), CY7C65X13 and CY7C66X13	428-1339-ND	720.00	CY3654-P03

SL11R-DK

The SL11R from Cypress, is a low cost, full speed Universal Serial Bus (USB) RISC based Controller. The SL11R contains a 16-bit RISC processor with built-in BIOS ROM that greatly reduces firmware development time. This unique architecture provides the ability to upgrade products, in the field, without changing the peripheral hardware. The processor can execute code either from internal ROM/RAM or external DRAM, SRAM and ROM. Email support.

Kit Includes: • HW reference design for SL11R evaluation board • Assembler/Debugger and built in emulator • Application notes • BIOS ROM information • System Software demo program source code • Generic WDM mini-port driver for WIN98/2000-object code • 2 sample chips
Devices Supported: SL11R-IDE

428-1344-ND	SL11 Development Tools	**$495.00**

CY4636

WirelessUSB LP RDK (CY4636) provides an exemplary implementation of a 2:1, bidirectional Wireless desktop keyboard and mouse to single wireless receiver. The RDK will help jump-start your Keyboard and Mouse development using WirelessUSB LP (CYRF6936) Radio System on Chip. WirelessUSB LP is the next generation WirelessUSB device, with high data throughput and low power designed to operate in 2.4 GHz ISM band. WirelessUSB has many powerful features that allow users to create never before seen radio applications.

Kit Includes: • CYRF6936 WirelessUSB LS transceiver • Optical Sensor Mouse • WirelessUSB keyboard • Batteries • CD

428-1858-ND	Wireless USB REF Kit	**$248.75**

CY3655

The enCoRe™ II development system, based on the highly refined PSoC™ (Programmable System-on-Chip™) tools, supplies the user with an incircuit emulator (ICE) that works in conjunction with actual silicon to provide an accurate and efficient development system. The PSoC Designer™ software consists of a graphical user interface, assembler, C-Compiler, linker and debugger for a highly integrated code development environment. A compliant USB "User Module" along with PS/2 and other peripheral User Modules simplifies the learning curve and speeds development time.

Kit Includes:
• Application Board enCoRe II Pod • Wireless enCoRe II Pod • PDIP feet • Modular Programmer Base Board • Programming Adapter Plug • USB Cable PS/2 Male to Male Cable • Software • Printed Documentation

428-1773-ND	Development Kit for enCoRe II	**$1166.00**
428-1774-ND	Extension Kit for enCoRe II	**$615.00**

TOSHIBA

8, 16, and 32-Bit Flash Microcontrollers

Toshiba 8-bit microcontrollers feature low-power consumption and low voltage operation.

The on-chip peripherals options include LCD, VFT and LED display drivers.

The 870/C series has a single register bank to increase C-Compiler efficiency.

Features:

- Minimum Instruction cycle time: 0.25µs at 16MHz
- Low-power modes including HALT, IDLE and clock gear and dual clocks
- Powerful instruction set with 731 instructions including multiply, divide, 16-bit operations, bit manipulations, etc.
- On-chip peripherals including A/D, PWM, UARTS and LCD
- Operating Temperature: -40° ~ 85°C

Kits Include:

Evaluation Board, C-Compiler (3000 lines per module), Assembler, Linker, RS-232 Cable, Batteries, Quick Start Guide, Datasheet, Manuals, CD with Tools

Memory Size EPROM	RAM	I/O	Supply Voltage	Package	Digi-Key Part No.	Price Each 1	25	100	Toshiba Part No.
512K	24KB	143	2.7 ~ 3.6	193-FBGA	TMP19A43FDXBG-ND◆	12.63	11.37	10.09	TMP19A43FDXBG
2MB	64KB	209	2.7 ~ 3.6	281-FBGA	TMP19A64F20AXBG-ND◆	41.65	37.50	33.25	TMP19A64F20AXBG
32K	2K	39	1.8 ~ 3.6	64-QFP	TMP86FM29FG-ND◆	5.60	4.48	3.49	TMP86FM29FG
32K	2K	39	1.8 ~ 3.6	64-LQFP	TMP86FM29UG-ND◆	5.60	4.48	3.49	TMP86FM29UG
32K	2K	56	1.8 ~ 3.6	64-QFP	TMP86FM48FG-ND◆	8.00	6.40	5.40	TMP86FM48FG
32K	2K	56	1.8 ~ 3.6	64-LQFP	TMP86FM48UG-ND◆	7.90	6.32	5.34	TMP86FM48UG
48K	2K	48	1.8 ~ 3.6	80-LQFP	TMP86FP24F-ND	6.28	5.03	4.24	TMP86FP24F
48K	2K	48	1.8 ~ 3.6	80-LQFP	TMP86FP24FG-ND◆	6.28	5.03	4.24	TMP86FP24FG
8K	256	22	2.7 ~ 5.5	30-SSOP	TMP86F807MGEY-ND◆	5.40	4.32	3.36	TMP86F807MG (EY)
8K	256	24	2.7 ~ 5.5	30-SSOP	TMP86F808DMGEY-ND◆	5.40	4.32	3.36	TMP86F808DMG (EY)
16K	512	26	4.5 ~ 5.5	32-SDIP	TMP86FH09NGZM-ND◆	2.54	2.04	1.59	TMP86FH09NG(ZM)
16K	512	24	2.7 ~ 5.5	30-SSOP	TMP86FH12MGZ-ND◆	3.60	2.88	2.24	TMP86FH12MG(Z)
16K	512	33	2.7 ~ 5.5	42-SDIP	TMP86FH46ANGZ-ND◆	5.00	4.00	3.38	TMP886FH46ANG(Z)
16K	512	35	2.7 ~ 5.5	44-LQFP	TMP86FH47UG-ND◆	2.88	2.31	1.95	TMP86FH47UG
60K	2K	48	2.7 ~ 5.5	64-LQFP	TMP86FS23UGJZ-ND◆	4.78	3.83	2.98	TMP86FS23UG(JZ)
60K	1K	55	2.7 ~ 5.5	80-LQFP	TMP86FS27FG-ND◆	9.48	7.59	6.40	TMP86FS27FG
60K	2K	62	2.7 ~ 5.5	80-LQFP	TMP86FS28DFGJZ-ND◆	5.06	4.05	3.42	TMP86FS28DFG(JZ)
60K	2K	62	2.7 ~ 5.5	80-QFP	TMP86FS28FGTZ-ND◆	5.06	4.05	3.42	TMP86FS28FG(TZ)
60K	2KB	56	2.7 ~ 5.5	60-QFP	TMP86FS49AFGZ-ND◆	5.20	4.16	3.51	TMP86FS49AFG (Z)
60K	2KB	56	2.7 ~ 5.5	60-LQFP	TMP86FS49AUGJZ-ND◆	5.20	4.16	3.51	TMP86FS49AUG (JZ)
60K	2KB	91	2.7 ~ 5.5	100-QFP	TMP86FS64FGTZ-ND◆	5.54	4.44	3.45	TMP86FS64FG(TZ)
16K	512	32	1.8 ~ 5.5	44-LQFP	TMP86PH22UGJZ-ND◆	4.39	3.51	2.73	TMP86PH22UG(JZ)
128K	4KB	61	2.4 ~ 3.6	100-LQFP	TMP91FW40FGJZ-ND◆	7.46	5.97	5.04	TMP91FW40FG(JZ)
256K	16KB	81	2.4 ~ 3.6	100-LQFP	TMP91FY42FGJZ-ND◆	10.21	9.20	8.16	TMP91FY42FG(JZ)
128K	8KB	81	2.4 ~ 3.6	100-QFP	TMP91FW60DFGTZ-ND◆	7.46	5.97	5.04	TMP91FW60DFG(TZ)
128K	8KB	83	2.4 ~ 3.6	100-LQFP	TMP91FW60FGBJZ-ND◆	7.46	5.97	5.04	TMP91FW60FG(B,JZ)
8K	288KB	136	2.4 ~ 3.6	228-FBGA	TMP92CZ26AXBG-ND◆	10.00	9.00	7.98	TMP92CZ26AXBG
86FH47 Starter Kit					BMSKTOPASFM47AND-ND	98.95	—	—	BMSKTOPASFM47(AND)
86FM29 Starter Kit					BMSKTOPASFMA-ND	98.95	—	—	BMSKTOPASFM29(AND)
86FM29 Starter Kit					BMSKTOPASFM48AND-ND	98.95	—	—	BMSKTOPASFM48(AND)
TMP86FS49 Evaluation Kit					BMSKTOPAS86FS49A-ND◆	98.95	—	—	BMSKTOPAS86FS49 (A)

◆ ***RoHS Compliant***

DALLAS SEMICONDUCTOR

Microcontrollers 8-Bit 8051-Compatible

The 8051 microcontroller family remains one of the most popular processors in the world. Its ease of use and relatively high performance make it ideal for many applications, including portable and handheld products. The introduction of a new line of high-performance derivatives has many positive implications for improving the power efficiency of 8051-based designs. First, the use of a high-speed 8051 microcontroller can significantly improve power efficiency. A high performance CPU allows the processor clock to be slowed, resulting in the same level of performance at less power. Alternatively, the performance of an existing system can be increased without increasing power consumption. Second, a device which incorporates all needed peripherals should be selected if possible. If extra data memory is required, a device such as the DS87C520 should be used, which incorporates 1 kilobyte of internal MOVX SRAM. One of the strengths of the 8051 product family is the wide variety of on-chip peripherals. Features such as watchdog timers, additional UARTs, and precision reset circuits are available on high-speed microcontrollers. The introduction of two new low-power modes provides a low-power alternative to the Idle mode.

Internal Program Memory	Internal MOVX SRAM	Serial Ports	16-Bit Timers	Watch-dog	Power Fail Reset and Interrupt	Power Mgmt. Mode	Supply Voltage (V)	Feature	Speed (MHz)	Package	Digi-Key Part No.	Price Each 1	25
16kB EPROM	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-PLCC	DS87C520-QNL+-ND	48.84	36.86
16kB EPROM	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-PLCC	DS87C520-QCL+-ND	42.29	31.92
16kB EPROM	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	40-DIP	DS87C520-MCL+-ND	44.20	33.36
16kB EPROM	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-TQFP	DS87C520-ECL+-ND	44.31	33.44
16kB EPROM	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	52-PLCC	DS87C530-QCL+-ND	47.33	35.72
16kB EPROM	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	52-PLCC	DS87C530-QNL+-ND	54.38	41.04
ROM-less	—	1	3	No	No	No	4.5 ~ 5.5	80C32 Compatible	25	44-PQFP	DS80C310+FCG-ND	12.83	12.38
ROM-less	—	1	3	No	No	No	4.5 ~ 5.5	80C32 Compatible	25	40-DIP	DS80C310-MCG+-ND	14.10	10.64
ROM-less	—	1	3	No	No	No	4.5 ~ 5.5	80C32 Compatible	25	44-PLCC	DS80C310-QCG+-ND	12.72	9.60
ROM-less	—	2	3	Yes	Yes	No	4.5 ~ 5.5	80C32 Compatible	25	44-TQFP	DS80C320-ECG+-ND	22.15	16.72
ROM-less	—	2	3	Yes	Yes	No	4.5 ~ 5.5	80C32 Compatible	25	40-DIP	DS80C320-MCG+-ND	14.84	11.20
ROM-less	—	2	3	Yes	Yes	No	4.5 ~ 5.6	80C32 Compatible	33	40-DIP	DS80C320-MCL+-ND	20.14	15.20
ROM-less	—	2	3	Yes	Yes	No	4.5 ~ 5.6	80C32 Compatible	25	44-PLCC	DS80C320-QCG+-ND	19.13	14.44
ROM-less	—	2	3	Yes	Yes	No	4.5 ~ 5.6	80C32 Compatible	33	44-PLCC	DS80C320-QCL+-ND	22.15	16.72
ROM-less	—	2	3	Yes	Yes	No	4.5 ~ 5.5	80C32 Compatible	33	44-PLCC	DS80C320-QNG+-ND	22.15	16.72
—	—	2	3	Yes	Yes	No	4.5 ~ 5.5	80C32 Compatible	33	44-PLCC	DS80C320-QNL+-ND	25.68	19.38
—	—	2	3	Yes	Yes	No	2.7 ~ 5.5	80C32 Compatible	18	44-TQFP	DS80C323-ECD+-ND	7.18	5.42
—	—	2	3	Yes	Yes	No	2.7 ~ 5.5	80C32 Compatible	18	40-DIP	DS80C323-MCD+-ND	7.18	5.42
64kB ROM	1kB	3	4	Yes	Yes	Yes	1.8 ~ 3.3	80C32 Compatible	75	100-LQFP	DS80C400-FNY+-ND	16.13	15.56
64kB Flash	1kB	2	3	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	40-DIP	DS89C450-MNL+-ND ***NEW!***	22.55	17.02

DS80C400 Evaluation Kit

The DS80C400 Evaluation Kit is a proven platform to conveniently evaluate the capabilities of the DS80C400 networked microcontroller.

This kit contains the DSTINIm400 evaluation module, a fully functional and tested reference design based on the DS80C400 networked microcontroller. In addition, the kit contains the DSTINIs400 sockets board, which functions as the motherboard designed to host the DSTINIm400 evaluation module.

Kit Includes:

• DSTINIm400 Reference Board • DSTINIs400 Socket Board • DS80C400 Software CD-ROM • Quick Start Guide • Cables

DS80C400-KIT#-ND	Evaluation Kit for DS80C400	**$112.32**

Soft Microcontroller Module

DS5000(T) Soft Microcontroller Module is a fully 8051-compatible 8-bit CMOS microcontroller that offers "softness" in all aspects of its application. Through the comprehensive use of nonvolatile technology to preserve all information in the absence of system Vcc. The internal program/data memory space is implemented using either 8 or 32 kilobytes of nonvolatile CMOS SRAM. **DS2250-32** has the same features as the DS5000 but with an added feature. The program/data memory space is implemented using 8, 32, or 64 kilobytes of nonvolatile CMOS SRAM.

Module with Internal Battery	NV RAM	Real-Time Memory Encryption Key	Real-Time Clock	Package	Speed (MHz)	Digi-Key Part No.	Price Each 1	25
Yes	32K x 8 Int.	40-Bit	No	40-EDIP	16	DS5000-32-16+-ND◆	125.88	95.00
Yes	32K x 8 Int.	40-Bit	No	40-EDIP	16	DS5000T-32-16+-ND◆	138.46	104.50
Yes	64K x 8 Int.	User Defined	Yes	40-SIMM	16	DS2250-32-16-ND	95.67	72.20

◆ ***RoHS Compliant***

MAXQ™ 16-Bit RISC Microcontrollers

The MAXQ family of 16-bit reduced instruction set computing (RISC) microcontrollers is targeted toward low-cost, low-power, embedded-application designs. The flexible, modular architecture design used in these microcontrollers allows development of targeted designs for specific applications with minimal effort. Microcontrollers in the MAXQ family provide many different combinations of program memory, data memory, and peripherals while supporting a common feature set. This shared functionality provides maximum reusability for hardware and software systems developed using these microcontrollers.

Internal Program Memory	Internal MOVX SRAM	Serial Ports	1-Wire Master	Timers	PWM	Data Pointers	Watchdog	Power Management Mode	Ring Osc.	LCD	LCD Segments	Supply Voltage	Package	Digi-Key Part No.	Price Each 1	25	50	Dallas Part No.
64kB Flash	2kB	2	Yes	3 x 16-Bit	3	3	Yes	Yes	Yes	Yes	132	1.8 ~ 2.75	68-QFN	MAXQ2000-RAX+-ND	8.11	6.12	4.00	MAXQ2000-RAX+
32kB Flash	2kB	2	Yes	3 x 16-Bit	3	3	Yes	Yes	Yes	Yes	132	1.8 ~ 2.75	100-LQFP	MAXQ2000-RFX+-ND	8.11	6.12	4.90	MAXQ2000-RFX+
2kB	64B	—	—	1 x 16-Bit	—	2	Yes	Yes	—	—	—	6 ~ 9.5	24-TSSOP	MAXQ3210-EJX+-ND	4.48	3.38	2.88	MAXQ3210-EJX+
2kB	64B	—	—	1 x 16-Bit	—	2	Yes	Yes	—	—	—	6 ~ 9.5	24-DIP	MAXQ3210-EMX+-ND	4.74	3.58	3.05	MAXQ3210-EMX+
2kB	64B	—	—	1 x 16-Bit	—	2	Yes	Yes	—	—	—	4.5 ~ 5.5	24-TSSOP	MAXQ3212-EJX+-ND	4.48	3.38	2.88	MAXQ3212-EJX+

MAXQ2000 Evaluation Kit

The MAXQ2000 Evaluation Kit (EV kit) is a proven platform to conveniently evaluate the capabilities of the MAXQ2000 low-power LCD microcontroller. The kit contains the MAXQ2000 with pins brought out to headers, a JTAG programming interface, fixed and adjustable power supplies, a DB-9 serial connector, an LCD display, and switches and LEDs to control and display board operation. **Kit Includes:** • MAXQ2000 Evaluation Kit Board • Serial-to-JTAG Interface Board • JTAG Cable • MAXQ2000 LCD Display Daughterboard • MAXQ2000 Evaluation Kit CD-ROM

MAXQ2000-KIT-ND	Evaluation Kit for MAXQ2000	**$174.90**

MAXQ3120 Evaluation Kit

The MAXQ3120 Evaluation Kit (EV kit) is a proven platform to conveniently evaluate the capabilities of the MAXQ3120 dual analog-to-digital converter (ADC) microcontroller. The kit contains the MAXQ3120 with the ADC inputs and spare GPIO pins brought out to headers, a JTAG programming interface, an on-board 3.3V power supply, and a 3.5 digit LCD. **Kit Includes:** • MAXQ3120 Evaluation Board • Serial-to-JTAG (MAXQJTAG) Interface Board • Serial Cable • JTAG Cable • MAXQ3120 Evaluation Kit CD • Third Party Compiler Tools Evaluation CD

MAXQ3120-KIT-ND	Evaluation Kit for MAXQ3120	**$174.90**

MAXQ3210 Evaluation Kit

The MAXQ3210 evaluation kit (EV kit) is a proven platform to conveniently evaluate the capabilities of the MAXQ3210 voltage regulator microcontroller. The kit contains the MAXQ3210 with pins brought out to headers, JTAG programming interface, 9V battery clip, piezoelectric horn, pushbuttons, and LED's to control and display board operation. With the included power supply, software, serial-to-JTAG interface board, and an RS-232 cable connected to a personal computer, the kit provides a completely functional system ideal for evaluating the capabilities of the MAXQ3210

MAXQ3210-KIT-ND	Evaluation Kit for MAXQ3210	**$177.44**

FDI NXP In Circuit Programmers

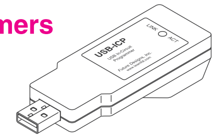

USB-ICP supports In-Circuit Programming or ICP mode on NXP's microcontroller families such as the LPC9xx, 80C51, and ARM7. In-Circuit Programming uses a two-wire serial interface to program and erase ICP enabled microcontroller devices without removing them from the system. A small connector is all that is needed to interface your application to the USB-ICP programmer.

The USB-ICP-SAB9 Socket Adapter Board extends the USB-ICP for NXP Semiconductors LPC9xx devices to allow the user to program and test these devices outside of the application circuit. The SAB9 includes support for most NXP LPC9xx devices in the following packages: TSSOP, HVSON10, HQVFN28, and DIP8 - DIP 28.

Supports: NXP's P89LPC900, P89C51, and ARM7 families of micro-controllers

Features: • USB port power; no external power supply required • Supports USB 2.0 **Includes**: • USB-ICP dongle • 18" cable for direct connection to board • ICP design guide

622-1001-ND	(USB-ICP-80C51ISP)	**$69.00**
622-1002-ND	(USB-ICP-LPC9XX)	**$69.00**
622-1005-ND	(USB-ICP-LPC2K)	**$69.00**
622-1006-ND	(USB-ICP-SAB9)	**$169.00**

USB Programming Dongle

The USB-Dongle provides a Virtual COM Port interface to the PC and allows hex files to be downloaded and programmed using Flash Magic or other common utilities. The USB-Dongle provides all power needed by the various Derivative Boards so no external power supply is required. The USB-Dongle plugs directly into any standard USB port on a PC and supports both USB 1.0/1.1 and USB 2.0.

622-1007-ND	(USB-Dongle) USB Programming Dongle (Derivative Boards not included)	**$16.99**
622-1008-ND	(DB-HVSON10-LPC9103) Board for LPC9103 10-HVSON	**$5.00**
622-1009-ND	(DB-DIP8-LPC901) Board for LPC901 8-DIP	**$5.00**
622-1010-ND	(DB-TSSOP-LPC922) Board for LPC922 TSSOP	**$6.00**
622-1011-ND	(DB-TSSOP-LPC938) Board for LPC938 TSSOP	**$6.00**
622-1012-ND	(DB-TQFP44-89V52X2) Board for P89V52X2 44-TQFP	**$7.50**
622-1013-ND	(DB-LQFP48-LPC2103) Board for LPC2103 48-LQFP	**$7.50**
622-1014-ND	(DB-TSSOP-SKT) Board for LPC9XX TSSOP	**$49.00**
622-1015-ND	(DB-S08-LPC908) Board for LPC908 8-SOIC	**$5.00**
622-1016-ND	(DB-PLCC44-LPC952) Board for P89LPC952FA 44-PLCC	**$7.50**
622-1017-ND	(DB-PLCC44SKT) Board for 44-ZIF PLCC Socket	**$49.00**
622-1019-ND	(DB-LQFP48-LPC2106) Board for LPC2106 48-LQFP	**$10.00**
622-1021-ND	***NEW!*** (PB-1SPP) Board for BGB203/H1/S06	**$25.00**

LCD Demo Kit

The LCD Demo Kit is a reference design for a low-cost microcontroller and LCD solution. The Demo Board is controlled by a simple two-button user interface (MODE and SELECT). The Demo Board CD includes example code for several sample applications: An FM Radio display during a simulated channel scan, a 15 minute count down timer, a repeating pattern of 4 text lines and a scrolling message window. The user can edit this code and download to the reprogrammable Flash microcontroller via a 10-pin header included on the board using any external ICP style programmer.

622-1003-ND	(LCD-DEMO-KIT)	**$49.00**

PCA9633 Demo Board

The PCA9633 Demo Board demonstrates the NXP PCA9633 Fast Mode Plus 4-bit I^2C LED Driver IC. Four LEDs are connected to the PCA9633 and, through individual pulse width modulation (PWM) of each LED, show different levels of intensity. The board supports six different modes of operation including color wash and random color. The on-board Flash microcontroller is also user reprogrammable for endless variations of functionality. It also includes high-current FET drivers for off board LED circuitry. Power can be supplied by either the onboard 9VDC battery or through the external power connector.

622-1004-ND	(PCA9633DEMO)	**$69.00**

LPC3180 Development Kit

The LPC3180 Development Kit provides a stable platform for building powerful user applications with the NXP Semiconductors LPC3180 within the ARM9 Linux environment. The kit provides the user with an array of popular mobile technologies making it an ideal development target for consumer communications software. Using existing Linux hardware drivers, developers can focus on building and improving their user interface applications without worrying about low-level hardware functionality.

622-1018-ND	(LPC3180-DEV-KIT) ***RoHS Compliant***	**$975.00**

No-Bottleneck - Extremely High-Bandwidth MCU with Ethernet, USB, & CAN interfaces

Why re-invent your code?

NXP makes your design experience better by providing you:

- Consistently higher-performance peripherals with deeper buffers and better functionality
- Coherent internal architecture using standard cores, peripheral blocks, and internal busses
- Faster 0-wait-state Flash memory, no-bottleneck, high-bandwidth interfaces, and better DMA engines

All of which make code re-use easy and assist you to focus on improving your design within your too-short development cycle.

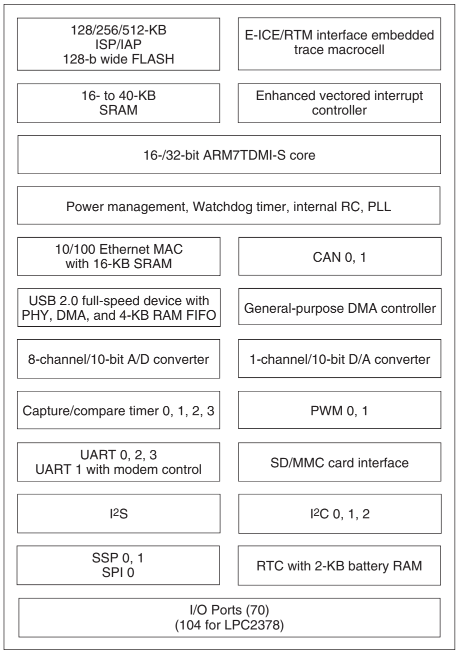
128/256/512-KB ISP/IAP 128-b wide FLASH
E-ICE/RTM interface embedded trace macrocell
16- to 40-KB SRAM
Enhanced vectored interrupt controller
16-/32-bit ARM7TDMI-S core
Power management, Watchdog timer, internal RC, PLL
10/100 Ethernet MAC with 16-KB SRAM
CAN 0, 1
USB 2.0 full-speed device with PHY, DMA, and 4-KB RAM FIFO
General-purpose DMA controller
8-channel/10-bit A/D converter
1-channel/10-bit D/A converter
Capture/compare timer 0, 1, 2, 3
PWM 0, 1
UART 0, 2, 3
UART 1 with modem control
SD/MMC card interface
I2S
I2C 0, 1, 2
SSP 0, 1
SPI 0
RTC with 2-KB battery RAM
I/O Ports (70)
(104 for LPC2378)

Ordering information

Type number	Package	Flash (KB)	Total SRAM	External bus	CAN	SD/ MMC
LPC2364FBD100	LQFP100	128	34 KB	N	2	N
LPC2366FBD100	LQFP100	256	58 KB	N	2	N
LPC2368FBD100	LQFP100	512	58 KB	N	2	Y
LPC2378FBD144	LQFP144	512	58 KB	MiniBus	2	Y

High-Performance Features	LPC23xx	LPC24xx
72Mhz ARM7TDMI-S		
Flash **(0-wait up to 72Mhz)**	up to 512KB	up to 512KB
SRAM	up to 58KB	up to 96KB
Battery-backed SRAM 2KByte		
External Memory Controller	8-bit MiniBus	non-multiplexed 32-bit
Ethernet 10/100 MAC w/DMA	Reduced MII	RMII and MII
USB 2.0 Full Speed w/DMA	Device w/PHY	Host and Device w/PHY
USB 2.0 On-The-Go controller	no	yes
CAN2.0B (two channels)	yes	yes

Common to both families:

On-chip RC-oscillator — 4Mhz **trimmed to 1%**
Four 32-bit general purpose **timers**
PWM block supporting 3-Phase Motor Control
Watchdog timer from multiple clock source options
ADC 8 channel x 10-bit and 10-bit **DAC**
Low-power **Real Time Clock** with 2 KB SRAM and battery back-up
3x General purpose DMA controllers
High-speed Serial: I²S (digital Audio), 3x I²C, 3x SPI/SSP, 4x UARTs
SD/MMC memory card interface
Single 3.3V power supply (3.0 to 3.6V)
Multiple Power-Down Modes

10/100 Full-Duplex Ethernet

Option of full Media Independent Interface, or Reduced MII. Multiple DMA channels & large buffers ensure full bandwidth.

True USB 2.0 and True Full-Speed

Only **NXP** ARM Microcontrollers support all modes and all 32 endpoints. The NXP ARM-based USB interfaces give you better than 8Mbps data throughput (8x performance over competitor's FS USB). Larger buffers and Multi-DMA channels prevent data-bottlenecks and off-load the processor; freeing you to do more with your application code.

Dual CAN 2.0B

Two certified CAN 2.0B interfaces provide robust communications support for many products including industrial, medical, transportation, and sensor interface. Recognizes all 11- and 29-bit identifiers.

Dedicated and General, Multi-channel DMA

Supporting scatter-gather, big-little endian swap, memory-to-memory, peripheral-to-peripheral, memory-to-peripheral, and peripheral-to-memory transfers on multiple channels, and a wealth of additional features; the LPC23xx makes it easy to keep your code focused on your application - not on pushing data around.

Why waste cycles paging code to RAM, servicing peripherals with small buffers, or managing interface data transfer?

NXP Semiconductors has always provided the widest range of internally-compatible, highest-bandwidth, ARM-based MCUs available: (63-MIPS) LPC2101 - through the (220-MIPS) ARM9-based LPC3180 family, all with 0-wait-state flash and consistent internal structure and features, to further protect your code investment, maximize the value of your development schedule, and help you give your products the advantages they require.

ARM7/ARM9/8051 Microcontrollers

ARM7 Microcontrollers

The LPC2000 architecture is based on a 16/32-bit ARM7TDMI-S™ CPU with real-time emulation and embedded trace support. A 128-bit wide memory interface and a unique accelerator architecture enable 32-bit code execution at maximum clock rate. For critical code size applications, the alternative 16-bit Thumb™ mode reduces code by more than 30% with minimal performance penalty. Due to their tiny size and low power consumption, these microcontrollers are ideal for applications where miniaturization is a key requirement. **Features:** • 16/32-bit ARM7TDMI-S processor • Up to 98kB on-chip Static RAM • In-System Programming (ISP) and In-Application Programming (IAP) via on-chip boot loader software • Vectored Interrupt Controller with configurable priorities and vector addresses • Embedded ICE-RT interface enables breakpoints and watch points. Interrupt service routines can continue to execute whilst the foreground task is debugged with the on-chip RealMonitor™ software • Embedded Trace Macrocell enables non-intrusive high speed real-time tracing of instruction execution • Multiple serial interfaces

Memory			No. of									Max. Freq.	Temp. (°C)	I/O	CPU		Digi-Key	Price Each			NXP
RAM	Flash	PWM	Timers	ADC	DAC	I/O	USB	UART	I^2C	CAN	SPI	(MHz)	Range	Voltage	Voltage	Package	Part No.	1	25	100	Part No.
2K	8K	Y	4	8-Ch., 10-Bit	—	32	—	Y(2)	Y(2)	—	Y(2)	70	-40 ~ 85	3.3V	1.8V	48-LQFP	568-2092-ND	3.32	2.66	2.07	LPC2101FBD48-S
4K	16K	Y	4	8-Ch., 10-Bit	—	32	—	Y(2)	Y(2)	—	Y(2)	70	-40 ~ 85	3.3V	1.8V	48-LQFP	568-2093-ND	4.17	3.34	2.60	LPC2102FBD48-S
8K	32K	Y	4	8-Ch., 10-Bit	—	32	—	Y(2)	Y(2)	—	Y(2)	70	-40 ~ 85	3.3V	1.8V	48-LQFP	568-2094-ND	4.95	3.96	3.08	LPC2103FBD48-S
16K	128K	Y	4	—	—	32	—	Y(2)	Y	—	—	60	0 ~ 70	3.3V	1.8V	48-LQFP	568-1220-ND	9.89	7.92	6.68	LPC2104BBD48-S
32K	128K	Y	4	—	—	32	—	Y(2)	Y	—	Y	60	0 ~ 70	3.3V	1.8V	48-LQFP	568-2242-ND	8.62	8.05	7.48	LPC2105BBD48-S
64K	128K	Y	4	—	—	32	—	Y(2)	Y	—	Y	60	0 ~ 70	3.3V	1.8V	48-LQFP	568-1221-ND	12.50	11.26	9.99	LPC2106BBD48-S
64K	128K	Y	4	—	—	32	—	Y(2)	Y	—	Y	60	-40 ~ 85	3.3V	1.8V	48-HVQFN	568-1324-ND	12.66	11.40	10.11	LPC2106FHN48-S
64K	128K	Y	4	—	—	32	—	Y(2)	Y	—	Y	60	-40 ~ 85	3.3V	1.8V	48-LQFP	568-1890-ND	12.50	11.26	9.99	LPC2106FBD48-S
8K	64K	Y	2	4-Ch., 10-Bit	—	46	—	Y(2)	Y	Y	Y(2)	60	-40 ~ 85	3.3V	1.8V	64-LQFP	568-4311-ND	8.61	6.89	5.82	LPC2109FBD64/01-S
16K	128K	Y	2	4-Ch., 10-Bit	—	46	—	Y(2)	Y	—	Y(2)	60	-40 ~ 85	3.3V	1.8V	64-LQFP	568-4312-ND	9.98	7.99	6.74	LPC2114FBD64/01-S
16K	128K	Y	2	4-Ch., 10-Bit	—	46	—	Y(2)	Y	Y(2)	Y(2)	60	-40 ~ 85	3.3V	1.8V	64-LQFP	568-4313-ND	9.51	8.56	7.59	LPC2119FBD64/01-S
16K	256K	Y	2	4-Ch., 10-Bit	—	46	—	Y(2)	Y	—	Y(2)	60	-40 ~ 85	3.3V	1.8V	64-LQFP	568-4314-ND	9.51	8.56	7.59	LPC2124FBD64/01-S
16K	256K	Y	2	4-Ch., 10-Bit	—	46	—	Y(2)	Y	Y(2)	Y(2)	60	-40 ~ 85	3.3V	1.8V	64-LQFP	568-4315-ND	10.68	9.62	8.53	LPC2129FBD64/01-S
8K	32K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-4005-ND	6.40	5.12	4.32	LPC2131FBD64/01-S
16K	64K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-4006-ND	7.81	6.25	5.28	LPC2132FBD64/01-S
16K	64K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-HVQFN	568-4007-ND	8.11	6.49	5.48	LPC2132FHN64/01
16K	128K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-4008-ND	8.75	7.88	6.99	LPC2134FBD64/01-S
32K	256K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-4009-ND	10.50	9.46	8.39	LPC2136FBD64/01-S
32K	512K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-4010-ND	11.66	10.50	9.31	LPC2138FBD64/01-S
32K	512K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	47	—	Y	Y(2)	—	Y	60	-40 ~ 85	3.3V	3.3V	64-HVQFN	568-4011-ND	11.91	10.73	9.51	LPC2138FHN64/01
8K	32K	Y	4	6-Ch., 10-Bit	—	45	Y	Y(2)	Y(2)	—	—	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-1761-ND	7.20	5.76	4.86	LPC2141FBD64-S
16K	64K	Y	4	6-Ch., 10-Bit	1-Ch., 10-Bit	45	Y	Y(2)	Y(2)	—	—	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-1762-ND	8.40	6.72	5.67	LPC2142FBD64-S
16K	128K	Y	4	6-Ch., 10-Bit	1-Ch., 10-Bit	45	Y	Y(2)	Y(2)	—	Y(2)	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-1763-ND	9.42	8.48	7.52	LPC2144FBD64-S
40K	256K	Y	4	8+6-Ch., 10-Bit	1-Ch., 10-Bit	45	Y	Y(2)	Y(2)	—	Y(2)	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-1764-ND	11.24	10.13	8.98	LPC2146FBD64-S
40K	512K	Y	4	8+6-Ch., 10-Bit	1-Ch., 10-Bit	45	Y	Y(2)	Y(2)	—	Y(2)	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-1765-ND	12.50	11.26	9.99	LPC2148FBD64-S
16K	256K	Y	2	4-Ch., 10-Bit	—	46	—	Y(2)	Y	Y(4)	Y(2)	60	-40 ~ 125	3.3V	1.8V	64-LQFP	568-4316-ND	12.19	10.98	9.73	LPC2194HBD64/01-S
16K	—	Y	2	8-Ch., 10-Bit	—	76	—	Y(2)	Y	—	Y(2)	60	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4012-ND	6.51	5.21	4.40	LPC2210FBD144/01-S
16K	128K	Y	2	8 Ch., 10-Bit	—	112	—	Y(2)	Y	—	Y(2)	60	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4317-ND	11.08	9.98	8.85	LPC2212FBD144/01-S
16K	256K	Y	2	8-Ch., 10-Bit	—	112	—	Y(2)	Y	—	Y(2)	60	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4318-ND	12.26	11.04	9.79	LPC2214FBD144/01-S
64K	—	Y	4	8-Ch., 10-Bit	—	76	—	Y(2)	Y	—	Y(2)	75	-40 ~ 85	3.3V	1.8V	144-LQFP	568-1896-ND	8.95	7.16	6.04	LPC2220FBD144-S
64K	—	Y	4	8-Ch., 10-Bit	—	76	—	Y(2)	—	—	Y(2)	75	-40 ~ 85	3.3V	1.8V	144-TFBGA	568-2020-ND	8.80	7.04	5.94	LPC2220FET144/G,55
16K	—	Y	2	8-Ch., 10-Bit	—	76	—	Y	Y	Y(2)	Y	72	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4013-ND	8.00	6.40	5.40	LPC2290FBD144/01-S
16K	256K	Y	2	8-Ch., 10-Bit	—	112	—	Y(2)	Y	Y(2)	Y(2)	60	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4319-ND	13.45	12.12	10.74	LPC2292FBD144/01-S
16K	256K	Y	2	8-Ch., 10-Bit	—	112	—	Y(2)	Y	Y(2)	Y(2)	60	-40 ~ 85	3.3V	1.8V	144-TFBGA	568-4320-ND	13.71	12.35	10.95	LPC2292FET144/01-S
16K	256K	Y	2	8-Ch., 10-Bit	—	112	—	Y(2)	Y	Y(4)	Y(2)	60	-40 ~ 125	3.3V	1.8V	144-LQFP	568-4321-ND	15.03	13.54	12.00	LPC2294HBD144/01-S
34K	128K	Y	6	6-Ch., 10-Bit	1-Ch., 10-Bit	70	Y	Y	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	100-LQFP	568-3995-ND	7.98	6.39	5.39	LPC2364FBD100-S
58K	256K	Y	6	6-Ch., 10-Bit	1-Ch., 10-Bit	70	Y	Y	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	100-LQFP	568-3996-ND	9.49	7.60	6.41	LPC2366FBD100-S
58K	512K	Y	6	6-Ch., 10-Bit	1-Ch., 10-Bit	70	Y	Y	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	100-LQFP	568-3997-ND	9.15	8.25	7.31	LPC2368FBD100-S
58K	512K	Y	6	6-Ch., 10-Bit	1-Ch., 10-Bit	104	Y	Y	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	144-LQFP	568-3998-ND	10.49	9.45	8.38	LPC2378FBD144-S
64K	512K	Y	4	6-Ch., 10-Bit	1-Ch., 10-Bit	70	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	100-LQFP	568-4322-ND	10.17	9.16	8.12	LPC2387FBD100-S
64K	512K	Y	4	8-Ch., 10-Bit	1-Ch., 10-Bit	104	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	144-LQFP	568-4323-ND	11.64	10.49	9.30	LPC2388FBD144-S
98K	512K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	136	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	180-TFBGA	568-4258-ND	12.50	11.26	9.99	LPC2458FET180-S
98K	—	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	136	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	208-LQFP	568-4259-ND	9.98	7.99	6.74	LPC2460FBD208-S
98K	—	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	136	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	208-TFBGA	568-4260-ND	9.98	7.99	6.74	LPC2460FET208-S
98K	512K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	160	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	208-LQFP	568-4261-ND	14.17	12.76	11.32	LPC2468FBD208-S
98K	512K	Y	2	8-Ch., 10-Bit	1-Ch., 10-Bit	160	Y	Y(4)	Y(3)	Y(2)	Y	72	-40 ~ 85	3.3V	3.3V	208-TFBGA	568-4262-ND	14.17	12.76	11.32	LPC2468FET208-S
64K	—	—	4	5-Ch., 10-Bit	—	79	Y	Y	Y	—	—	60	-40 ~ 85	3.3V	1.8V	180-TFBGA	568-3245-ND	9.98	7.99	6.74	LPC2880FET180-S
32K	—	Y	3	8-Ch., 10-Bit	—	76	—	Y(3)	—	Y	Y	84	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4269-ND	9.89	7.92	6.68	LH75401N0Q100C0-S
32K	—	Y	3	8-Ch., 10-Bit	—	76	—	Y(3)	—	Y	Y	84	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4270-ND	9.26	7.42	6.26	LH75411N0Q100C0-S
32K	—	Y	3	8-Ch., 10-Bit	—	76	—	Y(3)	—	Y	Y	84	-40 ~ 85	5V	3.3V	144-LQFP	568-4330-ND ***NEW!***	9.26	7.42	6.26	LH75411N0Q100C0
32K	—	Y	2	—	—	64	—	Y(3)	—	—	Y	77	-40 ~ 85	3.3V	1.8V	176-LQFP	568-4271-ND	9.89	7.92	6.68	LH79520N0Q000B1-S
32K	—	Y(2)	2	—	—	64	—	Y(3)	—	—	Y	77	-40 ~ 85	3.3V	1.8V	176-LQFP	568-4331-ND ***NEW!***	9.89	7.92	6.68	LH79520N0Q000B1
16K	—	Y	3	10-Ch., 10-Bit	—	108	Y	Y(3)	Y	—	Y	77	-40 ~ 85	3.3V	1.8V	208-LFBGA	568-4272-ND	10.70	9.64	8.55	LH79524N0F100A1-S
16K	—	Y	3	10-Ch., 10-Bit	—	108	Y	Y(3)	Y	—	Y	77	-40 ~ 85	3.3V	1.8V	208-LFBGA	568-4332-ND ***NEW!***	10.70	9.64	8.55	LH79524N0F100A1
16K	—	Y	3	10-Ch., 10-Bit	—	86	Y	Y(3)	Y	—	Y	77	-40 ~ 85	3.3V	1.8V	176-LQFP	568-4273-ND	9.47	8.53	7.56	LH79525N0Q100A1-S
16K	—	Y	3	10-Ch., 10-Bit	—	86	Y	Y(3)	Y	—	Y	77	-40 ~ 85	3.3V	1.8V	176-LQFP	568-4333-ND ***NEW!***	9.47	8.53	7.56	LH79525N0Q100A1

ARM9 Microcontrollers

The LPC3180 is based on the ARM926EJ-S core and offers a hardware vector floating-point unit for speed and efficiency. An integrated USB OTG interface with full host capability lets this high performance microcontroller connect directly to PDAs, smart-card readers and printers. The large array of peripherals available on chip also include UARTs, SPI, I2C, a real-time clock with a separated power domain and NAND Flash and DDR memory controllers.

Memory		No. of							Max. Freq.	Temperature	I/O	CPU		Digi-Key	Price Each			NXP
RAM	PWM	Timers	ADC	I/O	USB	UART	I^2C	SPI	(MHz)	Range (°C)	Voltage	Voltage	Package	Part No.	1	25	100	Part No.
48K	4	4	8-Ch., 10-Bit	108	—	Y(2)	—	Y(3)	80	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4324-ND	12.03	10.84	9.61	LPC2917FBD144-S
48K	4	4	8-Ch., 10-Bit	108	—	Y(2)	—	Y(3)	80	-40 ~ 85	3.3V	1.8V	144-LQFP	568-4325-ND	12.94	11.66	10.34	LPC2919FBD144-S
64K	Y(2)	4	3-Ch., 10-Bit	55	Y	Y(7)	Y(2)	Y(2)	208	-40 ~ 85	3/1.8V	1.2V	320-LFBGA	568-3242-ND	11.25	10.13	8.98	LPC3180FLE320
80K	—	3	—	60	Y	Y(3)	—	Y	200	-40 ~ 85	3.3V	1.8V	256-LFBGA	568-4274-ND	14.99	13.50	11.97	LH7A400N0F000B5-S
80K	—	3	—	60	Y	Y(3)	—	Y	250	-40 ~ 85	3.3V	1.8V	256-LFBGA	568-4275-ND	15.08	14.08	13.07	LH7A400N0F076B5-S
80K	—	3	—	60	Y	Y(3)	—	Y	200	-40 ~ 85	3.3V	1.8V	256-LFBGA	568-4276-ND	15.52	13.98	12.39	LH7A400N0G000B5-S
80K	—	3	—	60	Y	Y(3)	—	Y	200	-40 ~ 85	3.3V	1.8V	256-BGA	568-4334-ND ***NEW!***	15.52	13.98	12.39	LH7A400N0G000B5
80K	Y(4)	3	9-Ch., 10-Bit	64	Y	Y(3)	—	Y	266	-40 ~ 85	3.3V	1.8V	324-LFBGA	568-4277-ND	14.03	12.64	11.21	LH7A404N0F000B3-S
80K	Y(4)	3	9-Ch., 10-Bit	64	Y	Y(3)	—	Y	200	-40 ~ 85	3.3V	1.8V	324-LFBGA	568-4335-ND ***NEW!***	14.03	12.64	11.21	LH7A404N0F000B3
80K	Y(4)	3	9-Ch., 10-Bit	64	Y	Y(3)	—	Y	266	-40 ~ 85	3.3V	1.8V	324-LFBGA	568-4278-ND	14.91	13.43	11.90	LH7A404N0F092B3-S
80K	Y(4)	3	9-Ch., 10-Bit	64	Y	Y(3)	—	Y	266	-40 ~ 85	3.3V	1.8V	324-LFBGA	568-4336-ND ***NEW!***	14.91	13.43	11.90	LH7A404N0F092B3

(Continued)

8051 Microcontrollers

Memory				No. of						ADC	DAC	Analog		Max. Freq.	Temperature		Digi-Key	Price Each			NXP
RAM	EEPROM	OTP	Flash	Timers	PWM	UART	I^2C	CAN	SPI	Ch./Bits	Ch./Bits	Compar.	I/O	MHz @ 5V	Range (°C)	Package	Part No.	1	25	100	Part No.
128B	—	—	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-1232-5-ND	2.13	1.70	1.28	P80C31SBAA
128B	—	—	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1004-5-ND	2.33	1.86	1.40	P80C31SBPN
256B	—	—	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-1233-5-ND	2.20	1.76	1.32	P80C32SBAA
256B	—	—	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1005-5-ND	2.33	1.86	1.40	P80C32SBPN
256B	—	—	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	44-PLCC	568-1234-5-ND	2.20	1.76	1.32	P80C32UBAA
256B	—	—	—	3	—	Y	—	—	—	—	—	—	32	33	-40 ~ 85	44-PLCC	568-3195-5-ND	2.30	1.84	1.43	P80C32UFAA
256B	—	—	—	3	Y	Y	Y	—	—	8/10	—	—	48	24	0 ~ 70	68-PLCC	568-1235-5-ND	9.42	8.48	7.52	P80C552EBA
256B	—	—	—	3	Y	Y	Y	—	—	8/10	—	—	48	24	0 ~ 70	80-QFP	568-1236-ND	9.42	8.48	7.52	P80C552EBB
256B	—	—	—	3	Y	Y	Y	—	—	8/10	—	—	48	24	-40 ~ 85	68-PLCC	568-1237-5-ND	10.36	9.34	8.28	P80C552EFA
256B	—	—	—	3	Y	Y	Y	—	—	8/10	—	—	48	24	0 ~ 70	68-PLCC	568-1238-5-ND	9.80	8.83	7.83	P80C552IBA
256B	—	—	—	3	Y	Y	Y	—	—	8/10	—	—	48	24	-40 ~ 85	68-PLCC	568-1239-5-ND	10.75	9.68	8.59	P80C552IFA
512B	—	—	—	3	Y	Y	Y	—	—	7/10	—	—	48	16	-40 ~ 85	64-LQFP	568-2086-ND	9.80	8.83	7.83	P80C554SFBD
512B	—	—	—	2	Y(2)	Y	Y	Y	—	8/10	—	—	40	16	-40 ~ 85	68-PLCC	568-1241-5-ND	15.49	13.95	12.37	P80C592FFAA
256B	—	—	—	2	—	Y	Y	—	—	—	—	—	32	24	-40 ~ 85	44-PLCC	568-3196-5-ND	6.94	5.56	4.69	P80C652EBAA
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	16	-40 ~ 85	44-PLCC	568-1242-5-ND	6.12	4.90	4.14	P87C51FA-4A
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	40-DIP	568-3198-5-ND	6.28	5.03	4.24	P87C51FA-4N
256B	—	16K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-3199-5-ND	7.72	6.18	5.22	P87C51FB-4A
256B	—	16K	—	4	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1010-5-ND	7.80	6.24	5.27	P87C51FB-4N
2K	—	64K	—	4	—	Y(2)	—	—	Y	—	—	—	34	24	0 ~ 70	44-PLCC	568-1243-5-ND	8.48	6.79	5.73	P87C51MB2BA/02-S
3K	—	96K	—	4	—	Y(2)	—	—	Y	—	—	—	34	24	0 ~ 70	44-PLCC	568-1244-5-ND	9.35	7.48	6.31	P87C51MC2BA/02-S
512B	—	16K	—	4	Y	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-3200-5-ND	4.30	3.44	2.68	P87C51RB2BN
512B	—	16K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-1245-5-ND	5.58	4.47	3.48	P87C51RB+4A
128B	—	4K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-1246-5-ND	2.75	2.20	1.71	P87C51SBAA
128B	—	4K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1011-5-ND	2.93	2.34	1.82	P87C51SBPN
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-1247-5-ND	3.29	2.63	2.05	P87C52SBAA
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PQFP	568-1248-ND	3.22	2.58	2.01	P87C52SBBB
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1012-5-ND	3.40	2.72	2.12	P87C52SBPN
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	16	-40 ~ 85	44-PLCC	568-1249-5-ND	3.60	2.88	2.24	P87C52SFAA
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	44-PLCC	568-1250-5-ND	3.29	2.63	2.05	P87C52UBAA
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	44-PLCC	568-1251-5-ND	2.48	1.98	1.49	P87C52X2BA
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1013-5-ND	2.39	1.91	1.49	P87C52X2BN
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	33	-40 ~ 85	44-PLCC	568-3201-5-ND	2.84	2.27	1.77	P87C52X2FA
256B	—	16K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	44-PLCC	568-1252-5-ND	5.11	4.09	3.18	P87C54SBAA
256B	—	16K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1014-5-ND	5.36	4.29	3.34	P87C54SBPN
256B	—	8K	—	2	Y(2)	Y	Y	—	—	8/10	—	—	40	16	0 ~ 70	68-PLCC	568-1253-5-ND	10.84	9.76	8.66	P87C552SBAA
512B	—	16K	—	2	Y(2)	Y	Y	—	—	8/10	—	—	40	16	0 ~ 70	68-PLCC	568-1254-5-ND	12.26	11.04	9.79	P87C554SBAA
512B	—	16K	—	2	Y(2)	Y	Y	—	—	8/10	—	—	40	16	-40 ~ 85	68-PLCC	568-1255-5-ND	14.13	12.73	11.29	P87C554SFAA
512B	—	16K	—	3	Y(2)	Y	Y	Y	—	6/10	—	—	32	12	-40 ~ 85	44-PLCC	568-1256-5-ND	8.68	7.82	6.93	P87C591VFAA
256B	—	16K	—	2	—	Y	Y	—	—	—	—	—	32	33	0 ~ 70	44-LQFP	568-3202-ND	5.60	4.48	3.78	P87C654X2BBD
256B	—	16K	—	2	—	Y	Y	—	—	—	—	—	32	33	-40 ~ 85	44-LQFP	568-3203-ND	6.21	4.97	4.20	P87C654X2FA-S
512B	—	16K	—	4	Y	Y	Y	—	—	—	—	—	32	33	0 ~ 70	44-LQFP	568-3204-ND	7.05	5.65	4.77	P87C660X2BBD
512B	—	16K	—	4	Y	Y	Y	—	—	—	—	—	32	33	-40 ~ 85	44-PLCC	568-3205-5-ND	8.59	6.88	5.80	P87C660X2FA-S
512B	—	16K	—	4	Y	Y	Y(2)	—	—	—	—	—	32	33	0 ~ 70	44-LQFP	568-3206-ND	7.73	6.19	5.22	P87C661X2BBD
512B	—	16K	—	4	Y	Y	Y(2)	—	—	—	—	—	32	33	-40 ~ 85	44-PLCC	568-3207-5-ND	9.28	7.43	6.27	P87C661X2FA-S
128B	—	1K	—	2	—	Y	Y	—	—	—	—	—	12	20	0 ~ 70	14-TSSOP	568-1015-5-ND	2.08	1.67	1.25	P87LPC760BDH
128B	—	1K	—	2	—	Y	Y	—	—	—	—	Y(2)	12	20	0 ~ 70	14-DIP	568-3208-5-ND	2.18	1.75	1.32	P87LPC760BN
128B	—	2K	—	2	—	Y	Y	—	—	—	—	Y(2)	14	20	0 ~ 70	16-TSSOP	568-3209-5-ND	2.24	1.79	1.35	P87LPC761BDH
128B	—	2K	—	2	—	Y	Y	—	—	—	—	Y(2)	14	20	0 ~ 70	16-DIP	568-3210-5-ND	2.39	1.92	1.44	P87LPC761BN
128B	—	2K	—	2	—	Y	Y	—	—	—	—	—	18	20	0 ~ 70	20-SOIC	568-1257-5-ND	2.30	1.84	1.43	P87LPC762BD
128B	—	2K	—	2	—	Y	Y	—	—	—	—	Y(2)	18	20	0 ~ 70	20-TSSOP	568-3211-5-ND	2.27	1.82	1.42	P87LPC762BDH
128B	—	2K	—	2	—	Y	Y	—	—	—	—	Y(2)	18	20	0 ~ 70	20-DIP	568-1016-5-ND	2.42	1.94	1.51	P87LPC762BN
128B	—	2K	—	2	—	Y	Y	—	—	—	—	Y(2)	18	20	-40 ~ 85	20-SOIC	568-3212-5-ND	2.87	2.30	1.79	P87LPC762FD
128B	—	2K	—	2	—	Y	Y	—	—	—	—	Y(2)	18	20	-40 ~ 85	20-DIP	568-3213-5-ND	3.03	2.43	1.89	P87LPC762FN
128B	—	4K	—	2	—	Y	Y	—	—	—	—	—	18	20	0 ~ 70	20-SOIC	568-1258-5-ND	2.51	2.01	1.57	P87LPC764BD
128B	—	4K	—	2	—	Y	Y	—	—	—	Y(2)	—	18	20	0 ~ 70	20-TSSOP	568-1259-5-ND	2.46	1.98	1.54	P87LPC764BDH
128B	—	4K	—	2	—	Y	Y	—	—	—	—	Y(2)	18	20	0 ~ 70	20-DIP	568-1017-5-ND	2.63	2.11	1.64	P87LPC764BN
128B	—	4K	—	2	—	Y	Y	—	—	—	—	Y(2)	18	20	-40 ~ 85	20-SOIC	568-3214-5-ND	2.96	2.37	1.85	P87LPC764FD
128B	—	4K	—	2	—	Y	Y	—	—	—	—	Y(2)	18	20	-40 ~ 85	20-DIP	568-3215-5-ND	3.15	2.52	1.96	P87LPC764FN
128B	—	4K	—	2	—	Y	Y	—	—	8/4	8/4	—	18	20	0 ~ 70	20-SOIC	568-1260-5-ND	3.01	2.41	1.88	P87LPC767BD
128B	—	4K	—	2	—	—	Y	—	—	4/8	—	Y(2)	18	20	0 ~ 70	20-DIP	568-1018-5-ND	3.20	2.56	1.99	P87LPC767BN
128B	—	4K	—	2	—	Y	Y	—	—	4/8	—	Y(2)	18	20	-40 ~ 85	20-SOIC	568-3216-5-ND	3.51	2.81	2.19	P87LPC767FD
128B	—	4K	—	2	—	Y	Y	—	—	4/8	—	Y(2)	18	20	-40 ~ 85	20-DIP	568-3217-5-ND	3.72	2.98	2.32	P87LPC767FN
128B	—	4K	—	2	Y	Y	Y	—	—	4/8	—	Y(2)	18	20	0 ~ 70	20-SOIC	568-3218-5-ND	3.29	2.64	2.05	P87LPC768BD
128B	—	4K	—	2	Y	Y	Y	—	—	4/8	—	Y(2)	18	20	-40 ~ 85	20-SOIC	568-3219-5-ND	4.17	3.34	2.60	P87LPC768FD
128B	—	4K	—	2	Y	Y	Y	—	—	4/8	—	Y(2)	18	20	-40 ~ 85	20-DIP	568-3220-5-ND	3.48	2.79	2.17	P87LPC768FN
128B	—	4K	—	2	—	Y	Y	—	—	8/4	2/8	—	18	20	-40 ~ 125	20-SOIC	568-1261-5-ND	5.33	4.27	3.60	P87LPC769HD
128B	—	8K	—	2	Y	Y	Y	—	—	4/8	—	Y(2)	18	20	-40 ~ 85	20-TSSOP	568-1822-5-ND	4.28	3.42	2.66	P87LPC778FDH-S
8K	—	—	64K	4	Y	Y	Y	—	—	—	—	—	32	33	0 ~ 70	44-PLCC	568-1275-5-ND	12.96	11.67	10.35	P89C668HBA
8K	—	—	64K	4	Y	Y	Y	—	—	—	—	—	32	33	0 ~ 70	44-LQFP	568-1276-ND	12.78	11.52	10.21	P89C668HBBD
8K	—	—	64K	4	Y	Y	Y	—	—	—	—	—	32	33	-40 ~ 85	44-PLCC	568-1277-5-ND	14.71	13.25	11.75	P89C668HFA
1K	—	—	64K	3	Y	Y	—	—	Y	—	—	—	4	40	-40 ~ 85	44-PLCC	568-4252-5-ND	5.84	4.68	3.95	P89CV51RB2FA
1K	—	—	64K	3	Y	Y	—	—	Y	—	—	—	4	40	-40 ~ 85	44-TQFP	568-4253-ND	5.62	4.50	3.80	P89CV51RB2FBC
1K	—	—	64K	3	Y	Y	—	—	Y	—	—	—	4	40	-40 ~ 85	44-PLCC	568-4254-5-ND	6.14	4.92	4.15	P89CV51RC2FA
1K	—	—	64K	3	Y	Y	—	—	Y	—	—	—	4	40	-40 ~ 85	44-TQFP	568-4255-ND	5.96	4.77	4.03	P89CV51RC2FBC
1K	—	—	64K	3	Y	Y	—	—	Y	—	—	—	4	40	-40 ~ 85	44-PLCC	568-4256-5-ND	7.10	5.68	4.80	P89CV51RD2FA
1K	—	—	64K	3	Y	Y	—	—	Y	—	—	—	4	40	-40 ~ 85	44-TQFP	568-4257-ND	6.88	5.51	4.65	P89CV51RD2FBC
128B	—	—	1K	4	Y	—	—	—	—	—	—	Y	6	18	-40 ~ 85	8-DIP	568-2245-5-ND	.82	.77	.72	P89LPC901FN-S
128B	—	—	1K	4	Y	—	—	—	—	—	—	Y	6	18	-40 ~ 85	8-SOIC	568-1994-ND	1.26	1.02	.76	P89LPC901FD
128B	—	—	1K	4	—	—	—	—	—	—	—	Y(2)	6	18	-40 ~ 85	8-SOIC	568-1995-ND	1.37	1.10	.83	P89LPC902FD
128B	—	—	1K	4	—	—	—	—	—	—	—	Y(2)	6	18	-40 ~ 85	8-DIP	568-2246-5-ND	.87	.82	.76	P89LPC902FN-S
128B	—	—	1K	4	—	Y	—	—	—	—	—	Y(2)	6	18	-40 ~ 85	8-SOIC	568-1996-ND	1.39	1.12	.84	P89LPC903FD

‡ CCU: Capture Compare Unit † Cut Tape ◊ Tape and Reel

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ARM7/ARM9/8051 Microcontrollers

8051 Microcontrollers *(Cont.)*

Memory				No. of						ADC	DAC	Analog		Max. Freq.	Temperature		Digi-Key	Price Each			NXP
RAM	EEPROM	OTP	Flash	Timers	PWM	UART	I²C	CAN	SPI	Ch./Bits	Ch./Bits	Compar.	I/O	MHz @ 5V	Range (°C)	Package	Part No.	1	25	100	Part No.
128B	—	—	1K	2	—	Y	—	—	—	2/8	1/8	Y(2)	6	12	-40 ~ 85	8-SOIC	568-3221-5-ND	1.75	1.40	1.05	P89LPC904FD-S
128B	—	—	1K	2	—	Y	—	—	—	2/8	1/8	Y(2)	6	12	-40 ~ 85	8-DIP	568-3222-5-ND	1.90	1.52	1.14	P89LPC904FN-S
128B	—	—	1K	4	Y	—	—	—	Y	—	1/8	Y(2)	12	18	-40 ~ 85	14-TSSOP	568-2003-5-ND	1.58	1.27	.95	P89LPC912FDH-S
128B	—	—	1K	4	—	Y	—	—	Y	—	1/8	Y(2)	12	18	-40 ~ 85	14-TSSOP	568-2004-5-ND	1.71	1.37	1.03	P89LPC913FDH-S
128B	—	—	2K	4	Y	Y	—	—	—	4/8	1/8	Y(2)	12	18	-40 ~ 85	14-TSSOP	568-2006-5-ND	2.05	1.65	1.24	P89LPC915FDH-S
128B	—	—	2K	4	Y	Y	—	—	Y	4/8	1/8	Y(2)	14	18	-40 ~ 85	16-TSSOP	568-2007-5-ND	2.27	1.82	1.42	P89LPC916FDH-S
256B	—	—	2K	2	—	Y	—	—	—	4/8	1/8	Y(2)	14	18	-40 ~ 85	16-TSSOP	568-4337-1-ND† ***NEW!***	2.24	1.79	1.35	P89LPC916FDH-T
256B	—	—	2K	2	—	Y	—	—	—	4/8	1/8	Y(2)	14	18	-40 ~ 85	16-TSSOP	568-4337-2-ND◊ ***NEW!***	2863.04/2,500			P89LPC916FDH-T
256B	—	—	2K	4	Y(2)	Y	Y	—	—	4/8	1/8	Y(2)	14	18	-40 ~ 85	16-TSSOP	568-2247-ND	1.26	1.18	1.10	P89LPC917FDH-S
256B	—	—	2K	4	Y(2)	Y	Y	—	—	—	1/8	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-1279-5-ND	2.11	1.69	1.27	P89LPC920FDH-S
256B	—	—	4K	4	Y(2)	Y	Y	—	—	—	—	Y(2)	18	18	-40 ~ 85	20-DIP	568-2248-5-ND	1.58	1.48	1.37	P89LPC921FN
256B	—	—	4K	4	Y(2)	Y	Y	—	—	—	1/8	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-1280-5-ND	2.36	1.89	1.47	P89LPC921FDH
256B	—	—	8K	4	Y(2)	Y	Y	—	—	—	—	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-3223-5-ND	2.27	1.82	1.42	P89LPC9221FDH
256B	—	—	8K	4	Y(2)	Y	Y	—	—	—	—	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-2452-ND	2.27	1.82	1.42	P89LPC922FDH
256B	—	—	4K	4	Y(2)	Y	Y	—	—	4/8	1/8	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-2008-5-ND	2.27	1.82	1.42	P89LPC924FDH-S
256B	—	—	4K	2	Y(2)	Y	Y	—	—	4/8	1/8	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-4338-1-ND† ***NEW!***	2.53	2.03	1.52	P89LPC924FDH-T
256B	—	—	4K	2	Y(2)	Y	Y	—	—	4/8	1/8	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-4338-2-ND◊ ***NEW!***	3233.60/2,500			P89LPC924FDH-T
256B	—	—	8K	4	Y(2)	Y	Y	—	—	4/8	1/8	Y(2)	18	18	-40 ~ 85	20-TSSOP	568-2009-5-ND	2.46	1.98	1.54	P89LPC925FDH-S
256B	—	—	4K	4	Y(2)	Y	Y	—	Y	—	1/8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-1283-5-ND	2.42	1.94	1.46	P89LPC930FDH-S
256B	—	—	8K	4	Y(2)	Y	Y	—	Y	—	1/8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-1284-5-ND	2.68	2.15	1.67	P89LPC931FDH-S
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	—	1/8	Y(2)	26	18	-40 ~ 85	28-PLCC	568-4279-5-ND	3.17	2.54	1.98	P89LPC932A1FA
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	—	1/8	Y(2)	26	18	-40 ~ 85	28-PLCC	568-1285-5-ND	3.02	2.42	1.88	P89LPC932A1FA-S
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	—	—	Y(2)	26	12	-40 ~ 85	28-HVQFN	568-2250-5-ND	2.08	1.95	1.81	P89LPC932A1FHN-S
256B	—	—	4K	4	Y(2)	Y	Y	—	Y	4/8	4/8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-2010-5-ND	2.37	1.90	1.48	P89LPC933FDH-S
256B	—	—	8K	4	Y(2)	Y	Y	—	Y	4/8	2x8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-2011-5-ND	2.61	2.09	1.63	P89LPC934FDH-S
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	4/8 x2	1/8 x2	Y(2)	26	18	-40 ~ 85	28-PLCC	568-1287-5-ND	3.22	2.58	2.01	P89LPC935FA-S
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	4/8 x2	1/8 x2	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-1288-5-ND	3.03	2.43	1.89	P89LPC935FDH-S
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	4/8 x2	2/8	Y(2)	26	18	-40 ~ 85	28-HVQFN	568-2251-5-ND	2.15	2.01	1.87	P89LPC935FHN-S
512B	512B	—	16K	5	CCU‡	Y	Y	—	Y	4/8 x2	2x8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-2012-5-ND	3.96	3.17	2.47	P89LPC936FDH-S
256B	512B	—	16K	2	CCU‡	Y	Y	—	Y	4/8 x2	2x8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-4339-1-ND† ***NEW!***	3.96	3.17	2.47	P89LPC936FDH-T
256B	512B	—	16K	2	CCU‡	Y	Y	—	Y	4/8 x2	2x8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-4339-2-ND◊ ***NEW!***	5537.39/2,500			P89LPC936FDH-T
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	8/10	—	Y(2)	26	18	-40 ~ 85	28-PLCC	568-2252-5-ND	2.15	2.01	1.87	P89LPC938FA-S
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	8/10	1/8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-2013-5-ND	3.03	2.43	1.89	P89LPC938FDH-S
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	8/10	—	Y(2)	26	18	-40 ~ 85	28-HVQFN	568-3226-ND	3.22	2.58	2.01	P89LPC938FHN-S
256B	—	—	8K	4	Y(2)	Y	Y	—	Y	—	—	Y(2)	23	18	-40 ~ 85	64-LQFP	568-3227-ND	3.93	3.15	2.45	P89LPC9401FBD-S
768B	512B	—	8K	5	CCU‡	Y	Y	—	Y	8/10	—	Y(2)	23	18	-40 ~ 85	64-LQFP	568-3228-ND	4.74	3.79	2.95	P89LPC9408FBD
512B	—	—	8K	4	Y(2)	Y(2)	Y	—	Y	8/10	—	Y(2)	42	18	-40 ~ 85	44-PLCC	568-2253-5-ND	2.46	2.30	2.14	P89LPC952FA
512B	—	—	8K	4	Y(2)	Y(2)	Y	—	Y	8/10	1/8	Y(2)	40	18	-40 ~ 85	44-LQFP	568-2014-5-ND	5.06	4.05	3.15	P89LPC952FBD
128B	—	—	1K	4	Y(2)	Y	—	—	—	4/8	1/8	Y	8	18	-40 ~ 85	10-HVSON	568-2001-1-ND†	1.74	1.39	1.05	P89LPC9103FTK-G
128B	—	—	1K	4	Y(2)	Y	—	—	—	4/8	1/8	Y	10	18	-40 ~ 85	14-TSSOP	568-2002-5-ND	1.79	1.44	1.08	P89LPC9107FDH-S
1K	—	—	64K	3	Y	Y	—	—	Y	—	—	—	32	40	0 ~ 70	44-TQFP	568-1289-ND	6.32	5.06	4.27	P89LV51RD2BBC
1K	—	—	16K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-2427-5-ND	5.36	4.29	3.62	P89V51RB2FA-S
1K	—	—	16K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	40-DIP	568-3229-5-ND	5.56	4.45	3.76	P89V51RB2FN
1K	—	—	32K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-2428-5-ND	5.64	4.52	3.81	P89V51RC2FA
1K	—	—	32K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	44-TQFP	568-2429-ND	5.46	4.37	3.69	P89V51RC2FBC
1K	—	—	32K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	40-DIP	568-2430-5-ND	5.92	4.74	4.00	P89V51RC2FN
1K	—	—	64K	3	—	Y	—	—	Y	—	—	—	32	40	0 ~ 70	44-PLCC	568-1290-5-ND	6.52	5.22	4.41	P89V51RD2FA
1K	—	—	64K	3	—	Y	—	—	Y	—	—	—	32	40	0 ~ 70	44-TQFP	568-1291-ND	6.32	5.06	4.27	P89V51RD2FBC
1K	—	—	64K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	40-DIP	568-2431-5-ND	7.02	5.62	4.74	P89V51RD2FN
256B	192B	—	8K	3	Y	Y	—	—	—	—	—	—	32	33	-40 ~ 85	44-PLCC	568-4249-5-ND	2.36	1.89	1.47	P89V52X2FA
256B	192B	—	8K	3	Y	Y	—	—	—	—	—	—	32	33	-40 ~ 85	44-LQFP	568-4250-ND	2.48	1.98	1.49	P89V52X2FBD
256B	192B	—	8K	3	Y	Y	—	—	—	—	—	—	32	33	-40 ~ 85	40-DIP	568-4251-5-ND	2.52	2.02	1.57	P89V52X2FN
512B	—	—	16K	4	Y	Y	Y	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-2432-5-ND	7.60	6.08	5.13	P89V660FA
512B	—	—	16K	4	Y	Y	Y	—	Y	—	—	—	32	40	-40 ~ 85	44-TQFP	568-2433-ND	7.47	5.98	5.05	P89V660FBC
1K	—	—	32K	4	Y	Y	Y	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-2434-5-ND	8.46	6.78	5.72	P89V662FA
2K	—	—	64K	4	Y	Y	Y	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-2436-5-ND	9.35	7.48	6.31	P89V664FA
2K	—	—	64K	4	Y	Y	Y	—	Y	—	—	—	32	40	-40 ~ 85	44-TQFP	568-2437-ND	9.18	7.35	6.20	P89V664FBC
1K	—	—	32K	3	—	Y	—	Y	Y	—	—	—	32	32	-40 ~ 85	44-PLCC	568-3533-5-ND	17.54	16.38	15.21	PXAC37KFA
512B	—	—	—	3	—	Y(2)	—	—	—	—	—	—	32	30	0 ~ 70	44-PLCC	568-1299-5-ND	9.58	7.67	6.47	PXAG30KBA-S
512B	—	—	—	3	—	Y(2)	—	—	—	—	—	—	32	30	0 ~ 70	44-PLCC	568-4340-5-ND ***NEW!***	9.58	7.67	6.47	PXAG30KBA
512B	—	—	—	3	—	Y(2)	—	—	—	—	—	—	32	30	0 ~ 70	44-LQFP	568-1300-ND	9.47	7.58	6.40	PXAG30KBBD
1K	—	—	—	3	—	Y(2)	—	—	—	—	—	—	32	30	-40 ~ 85	44-LQFP	568-3534-ND	9.35	8.42	7.47	PXAG30KFBD
512B	—	32K	—	3	—	Y(2)	—	—	—	—	—	—	32	30	0 ~ 70	44-PLCC	568-1095-5-ND	12.75	11.48	10.18	PXAG37KBA
512B	—	—	64K	3	—	Y(2)	—	—	—	—	—	—	32	30	-40 ~ 85	44-PLCC	568-1096-5-ND	13.36	12.04	10.67	PXAG37KFA
2K	—	32K	—	3	—	Y(2)	—	—	—	—	—	—	32	30	0 ~ 70	44-PLCC	568-1097-5-ND	12.87	11.59	10.28	PXAG49KBA
512B	—	—	—	3	—	Y(2)	—	—	—	—	—	—	32	30	0 ~ 70	44-LQFP	568-1302-ND	12.08	10.88	9.65	PXAG49KBBD
1K	—	32K	—	3	Y	Y(2)	Y	—	—	8/8	—	—	50	30	0 ~ 70	68-PLCC	568-1099-5-ND	11.68	10.52	9.33	PXAS30KBA
1K	—	—	—	3	Y	Y(2)	Y	—	—	8/8	—	—	50	30	0 ~ 70	80-LQFP	568-1303-ND	10.52	9.48	8.40	PXAS30KBBE
1K	—	—	—	3	—	—	Y	—	—	8/8	—	—	50	30	-40 ~ 85	68-PLCC	568-3535-5-ND	12.85	11.58	10.27	PXAS30KFA
1K	—	—	—	2	—	Y(2)	Y	—	—	8/8	—	—	50	30	0 ~ 70	68-PLCC	568-3536-5-ND	16.96	15.83	14.70	PXAS37KBA
1K	—	—	—	2	—	Y(2)	Y	—	—	8/8	—	—	50	30	0 ~ 70	80-LQFP	568-3537-ND	15.79	14.74	13.69	PXAS37KBBE

‡ CCU: Capture Compare Unit † Cut Tape ◊ Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Development Tools for LPC2000

LPC21xx Evaluation Board

The Keil MCB2100 Evaluation Board introduces you to the NXP LPC2100 ARM family and allows you to create and test working programs for this advanced architecture. Two CAN and two serial interfaces are available. Debugging is supported via the JTAG interface and the Keil ULink USB-JTAG adapter. An evaluation copy of the Keil ARM development tool is included. **Applications:** LPC2129/2119/2124/2114 product families **Includes:** • Evaluation Kit for LPC2100 (with LPC2129) • ULINK JTAG Debugger • Development Software

568-1755-ND	Evaluation Board/ULINK JTAG LPC210XARM	**$337.50**

LPC2106 Evaluation Board

The evaluation board is populated with an LPC2106 device and features 2 serial ports, 2 user-defined buttons, 16 fully configurable LEDs, 20-pin JTAG interface connector as well as breakout headers for all pins. The kit also comes with a 32K code-limited version of IAR's Embedded Workbench, including IAR's ARM compiler and C-SPY debugger as well as a free license of the IAR MakeApp code generator for the LPC210x. **Applications:** LPC2106 family **Includes:** • Development board (with LPC2106) • Development Software

568-1756-ND	Evaluation Board for LPC210x ARM MCU	**$163.50**

LPC213x Evaluation Board

The Keil MCB2130 Evaluation Board introduces you to the NXP LPC2130 ARM family and allows you to create and test working programs for this advanced architecture. Two serial interfaces, a speaker, analog input (via potentiometer), and eight LEDs are available. Debugging is supported via the JTAG interface and the Keil ULink USB-JTAG adapter. An evaluation copy of the Keil ARM development tools is included. **Applications:** LPC213x family **Includes:** • Development Board (with LPC2138) • Development Software

568-2095-ND	Evaluation Board for LPC213x	**$163.50**
568-2096-ND	Evaluation Board + ULink LPC213x	**$337.50**

LPC214x Evaluation Board

The Keil MCB2140 Evaluation Board introduces you to the NXP LPC2140 ARM family and allows you to create and test working programs for this advanced architecture. An on-chip USB interface, two serial interfaces, a speaker, analog input (via potentiometer), and eight LEDs are available. Debugging is supported via the JTAG interface and the Keil ULink USB-JTAG adapter. An evaluation copy of the Keil ARM development tools is included **Applications:** LPC214x family **Includes:** • Development Board (with LPC2148) • Development Software

568-2097-ND	Evaluation Board for LPC214x	**$163.50**
568-2098-ND	Evaluation Board + ULink LPC214x	**$337.50**

LPC229x Rapid Development Kit

The phyCORE®-ARM7/LPC229x Rapid Development Kit supports high-performance LPC2292 and LPC2294 ARM7TDMI-S devices from NXP with external bus interface. PHYTEC Rapid Development Kits enable immediate and successful start-up of our insert-ready Single Board Computers. **Applications:** LPC2292 and LPC2294 families **Includes:** • Single Board Computer Module • Development Board • Ethernet Adapter • Serial Cable • AC adapter • PHYTEC Spectrum CD including SBC hardware manual, evaluation compiler, software demos and controller user manual

568-1757-ND	Evaluation Board for LPC220x ARM MCU	**$343.50**

LPC23xx Evaluation Board

The Keil MCB23XX Evaluation Board introduces you to the NXP LPC2300 ARM7-based family and allows you to create and test working programs for this advanced architecture. Two serial interfaces, a speaker, analog input, two CAN interfaces, LCD, USB, Ethernet, and eight LEDs make this board a great starting point for your next ARM project. **Applications:** LPC23xx family **Includes:** • Evaluation Board • Software

568-3999-ND	Evaluation Board LPC237x	**$223.50**
568-4014-ND	Evaluation Board LPC236x	**$223.50**

Development Tools for LPC900

MCB900 Evaluation Board

The Keil MCB900 Evaluation Board is a versatile and flexible prototype board for the NXP P89LPC93x microcontroller family. The MCB900 includes the Keil µVision2 LPC Development Studio which allows you to create and debug programs that you can program into the on-chip Flash ROM using FlashMagic. **Applications:** P89LPC93x family **Includes:** • MCB900 Evaluation Board (with P89LPC932) • µVision2 LPC Development Studio

568-1758-ND	Eval Board for LPC93x MCU Family	**$75.00**

EPM900 In-Circuit Debugger/ Parallel Programmer

The Keil EPM900 Emulator supports in-circuit debugging and parallel Flash ROM programming for the NXP P89LPC9xx device family. The EPM900 connects directly to the µVision2 Debugger which provides full control over the user program execution. The Keil EPM900 Emulator includes the µVision2 LPC Development Studio which contains all the tools you need to generate small LPC applications. **Applications:** P89LPC9xx family **Includes:** • EPM900 Emulator Board • µVision2 LPC Development Studio • USB Cable

568-1759-ND	Emulator Debugger/Programmer LPC9x	**$223.50**

PDS900 Emulator / Programmer

The PDS900 is a fully featured in circuit emulation and programming system supporting the entire NXP P89LPC900 family of high performance microcontrollers. It allows complete control and tracing of execution of a users program and access to all registers and memory spaces of the target microcontroller, without consuming any device resources or introducing wait-states or other non-standard behavior. It also allows programming of the Flash program memory and configuration options of production microcontroller devices **Applications:** P89LPC9xx family **Includes:** • PDS900 emulation and programming system • Emulation footprint adapters for TSSOP20, TSSOP28 and PLCC28 packages

568-1760-ND	Emulator Programmer LPC9x MCU	**$673.50**

Development Tools for LPC3180

U-LINK2 Debugger

The Keil ULINK2 USB-JTAG Adapter connects your PC's USB port to the target hardware (via JTAG, SWD, or OCDS) and allows you to debug embedded programs running on target hardware. ULINK2 offers all the features of the original ULINK USB-JTAG Adapter and adds serial wire debug (SWD) support, return clock support, and a real-time agent. ULINK2 works with standard Windows USB drivers.

568-4061-ND	U-LINK2 Debugger	**$253.50**

J-Link Debugger

The IAR J-Link is a small JTAG debugger for ARM. It connects via USB to the PC host running Windows. IAR J-Link integrates seamlessly into IAR Embedded Workbench for ARM and is fully plug-and-play compatible. **Features:** • Support for all ARM7/ARM9 cores, including Thumb mode • Download speed up to 600kB/sec • DCC speed up to 800kB/sec • Automatic core recognition • Auto speed recognition **Includes:** • USB • 20-pin flat cable

568-4062-ND	J-Link Debugger	**$253.50**

LPC3180 Development Kit

The phyCORE®-ARM9/LPC3180 module, combined with the PHYTEC Carrier Board, provide a platform to jump start embedded designs and propel concept to prototype and finished product. **Includes:** • Single Board Computer Module • Carrier Board • Serial Cable, USB cable, AC Adapter • PHYTEC Spectrum CD • Hardware Manual • Evaluation Compiler • Software demos • Controller User's Manual

568-4063-ND	LPC3180 Development Kit	**$448.50**

I^{2}C Development Tools

I^{2}C/SPI-to-UART Demo Board

The NXP I^{2}C/SPI-to-UART demo board demonstrates the SC16IS752 series of bridge ICs which provide high-speed serial data communications between an SPI or an I^{2}C-host and a UART device via RS-232/RS-485 while providing IrDA and GPIO interfaces. The demo board features the SC16IS752 I^{2}C/SPI slave-to-UART/IrDA/GPIO bridge, an NXP P89LPC935 microcontroller, which controls the bridge IC, an IrDA module for wireless communication and LEDs connected to the GPIO. **Includes:** • Demo Board • Cable • User Manual • Sample Code

568-4000-ND	I^{2}C/SPI-to- Dual UART Demo Board	**$76.13**

PCA9564 Demo Board

The PCA9564 Evaluation Board demonstrates the I^{2}C bus controllers ability to interface between a master (connected to its parallel bus and its control signals) and any master and slave devices connected to its I^{2}C bus. The evaluation board is populated with the following devices and functions: An external 9V DC power supply is used to provide power to the 3.3V on-board voltage regulator. The P89LPC932 and P89LV51 are both limited to a 3.3V supply voltage. **Includes:** • Demo Board • Power Supply

568-4001-ND	PCA9564 Demo Board	**$34.50**

I^{2}C Master Demo Board

The I^{2}C 2002-1A Evaluation Board is a low-cost I^{2}C-based system that allows Field Application Engineers, designers, and educators to use their PC to easily test and demonstrate new I^{2}C devices in a platform that allows multiple operations to be performed in a setting similar to a real system environment. **Includes:** • I^{2}C 2002-1A Evaluation Board • I^{2}C PORT v2 Adapter Card • 4-wire connector cable • USB Adapter Card • Power Supply • Software

568-4002-ND	I^{2}C Master Demo Board	**$240.00**

LED Dimmer Demo Board

The NXP LED Dimmer Demo Board makes it quick and easy to demonstrate keypad control as well as LED lighting and color mixing. Built around the NXP 8-bit microcontroller P89LV51RD2 and an NXP I2C-bus controller PCA9564, the board uses embedded software to run demonstrations on its own, without additional hardware or software. Optimized for use in mobile phones, the microcontroller is equipped with firmware that emulates a cellular handset. Engineers can program a variety of light patterns and control the brightness of a virtual display. The firmware can also be used to emulate a battery-discharge display. **Includes:** • Demo Board • Software

568-4003-ND	LED Dimmer Demo Board	**$34.50**

Development Tools for ARM Microcontrollers

ARM7 Evaluation Boards by Keil

The Keil Evaluation Board introduces you to the NXP LPC ARM family and allows you to create and test working programs for this advanced architecture. The Keil Evaluation Board connects to your PC using the serial port or the JTAG interface (for program debug using the Keil ULINK USB-JTAG Adapter and the uVision IDE and Debugger). **Includes:** • LPC Evaluation Board • Software.

568-4300-ND	Evaluation Board for LPC210x	**$105.00**
568-4297-ND	Evaluation Board for LPC212x	**$163.50**

IAR Kickstart Kit™ for LPC2103

The IAR KickStart Kit for LPC2103 contains hardware and software and allows you to design, develop, integrate and test your applications. **LPC2103 Development Board Contains:** • Serial Port • Reset Button • ISP button • 16 fully configurable LEDs • Breakout Headers • JTAG Interface Connector **Includes:** • Development Board • IAR Embedded Workbench with 32kB version of IAR C/C++Complier.

568-4301-ND	LPC2103 Development Board	**$163.50**
568-4302-ND	LPC2103 Development Kit with on-board JLink	**$118.50**

IAR Development Board for LPC2138

The IAR KickStart Kit for LPC2138 contains hardware and software and allows you to design and develop your applications. **LPC2138 Development Board Contains:** • 2 UARTS with drivers and DB9 connectors • ETM Routing • Potentiometer connected to the ADC • 2 x 16 LCD • JTAG Interface **Includes:** • Development Board • IAR Embedded Workbench with 32kB version of IAR C/C++Complier.

568-4298-ND	LPC2138 Development Board	**$163.50**
568-4299-ND	LPC2148 Development Board	**$163.50**

IAR Kickstart Kit™ for LPC2378

The IAR KickStart Kit for LPC2378 contains hardware and software and allows you to design, develop, integrate and test your applications. **LPC2378-SK Development Board Contains:** • SD/MMC Card Connector • Jumpers for ISP/RUN mode • 2 User Buttons • USB Connector • Color LCD. **Includes:** • On-Board J-Link debugger • Development Board • IAR Embedded workbench with 32kB version of IAR C/C++Complier

568-4307-ND	LPC2378 Development Kit with On-Board JLink	**$298.50**

LPC2158 LCD Demo Kit

The LCDDemo-LPC2158 is a reference design for a low cost microcontroller and LCD solution using the NXP LPC2158 along with a few discrete external components. The borad is controlled by a simple two-button user interface (mode and select). The LCDDemo-LCP2158 can function as a single board computer since the powerful LPC2158 contains an ARM7TDMI-S microcontroller with 512kB of programmable flash memory and 40kB of RAM. Additionally, the 20-pin expansion header allows for the connection of external devices to the microcontroller directly through GPIO or through the SPI and I^{2}C interfaces. **Includes:** • LCDDemo-LPC2158 Board • QuickStart Guide • Software.

568-4310-ND	LPC2158 LCD Demo Kit	**$66.00**

LPC2468 Evaluation Board by Embedded Artists

Embedded Artists' LPC2468 OEM Board (mounted on the OEM base board basic) lets you get up-and-running quickly with NXP's ARM7TDMI LPC24xx microcontroller series in general and with LPC2468 in particular. The board is only 66 x 80mm and is perfect for running uClinux with large on-board RAM and Flash. All processor signals are available on two 100-postion connectors for easy expansion. The board can be used in OEM applications, as well as for education purposes, experiment, and prototype projects. **Includes:** • LPC2468 OEM Board • OEM Base Board Bundle.

568-4303-ND	LPC2468 Evaluation Board (Embedded Artists)	**$298.50**

LPC2468 Evaluation Kit by Hitex

The LPC-Stick is a small modular evaluation kit with optional extension boards. The LPC-Stick package provides target hardware with the LPC2468 microcontroller from NXP, external SRAM, user pins and LEDs for application use. Combined with the proven USB debugger device connection and the non-limited HiTOP development tools, the LPC-Stick allows full access to all chip features, debugging and programming. To provide access to the most external capabilities of the LPC2468 chip, the stick allows to connect diverse extension boards over an 80-pin extension connector. The toolset does not require any power supply or cables, just install the tools and run the demo application! Make your first steps with the demo application and the graphical user interface: Debugging and user communication via USB at the same time! The extension connector allows the connection to accessory extension boards. Available accessory kits are: COM board extension provides a set of communication features and pinouts (Ethernet and Phy, USB Host and Device, UART, SDCard, CAN Phy, external power).

568-4308-ND	LPC-Stick with LPC2468	**$82.50**
568-4309-ND	Extension Board for LPC-Stick	**$118.50**

Bluestreak Evaluation Kits by LPD

The ZOOM™ Starter Development Kit (SDK) is a low-cost, high-performance application development kit for evaluating the functionality of the System On Module (SOM) Card Engine and associated processor. Application development is performed right on the product-ready card engine and software Board Support Packages (BSPs) included in the kit, which enables you to seamlessly transfer your application code and hardware into production. The card engine is ideal for applications in the medical , point-of-sale, industrial, and security markets. From patient monitoring and medical imaging, to card payment terminals and bar code readers, to CCTV cameras and intruder alarms, the card engine allows for powerful versatility and long-long life products

568-4304-ND	ZOOM SDK for LH7A404	**$636.00**
568-4305-ND	ZOOM SDK for LH79524	**$636.00**
568-4306-ND	ZOOM SDK for LH75401	**$381.00**

Flash Emulation Tools

A powerful tool that includes the hardware and software required to complete much of your application development work. The flash memory can be erased and programmed in seconds with only a few keystrokes, and since the MSP430 Flash is extremely low power, no external power supply is required. The tool has an integrated software environment and connects directly to the PC which greatly simplifies the set-up and use of the tool.

MSP-FET430P120:

Applications: MSP430F11x1, MSP430F12x, MSP430F11x2 and MSP430F12x2 product families **Includes:** • MSP430F12x FET development board with 28 SOIC ZIF socket, LED indicator, FET to PC cable and header pinouts for prototyping • Two F1232 flash devices • Two MSP430F123 flash devices • Integrated IAR Kickstart user interface which includes assembler, linker, simulator, source-level debugger and limited C-compiler • Full documentation on CD-ROM

MSP-FET430P140:

Applications: MSP430F13x, MSP430F14x, MSP430F15x and MSP430F16x product families **Includes:** • MSP430F13x/14x FET development board with 64 QFP ZIF socket • LED indicator • FET to PC adapter • Header pinouts for prototyping • Two MSP430F149 flash devices • Integrated IAR Kickstart user interface which includes assembler, linker, simulator, source-level debugger and limited C-compiler • Full documentation on CD-ROM **Features:** • JTAG based real-time-in-system emulation • CD-ROM

MSP-FET430X110:

The Flash Emulation Tool (FET) supports complete in-system development and is available for all MSP430Fxx Flash devices. Programming, assembler/C-source level debug, single includes IAR Kickstart IDE, assembler, linker, simulator and 2-kB C-compiler **Includes:** • MSP430F11x(1) FET development board with 20-SOIC ZIF socket, LED indicator, FET to PC cable, and header pinouts for prototyping • Two MSP430F1121 flash devices • Integrated IAR Kickstart user interface which includes assembler, linker, simulator, source-level debugger and function limited C compiler • Full documentation on CD-ROM

MSP-TRF6903-DEMO:

This kit is used to demonstrate a bidirectional radio frequency (RF) data link without the need of an external computer and for prototyping by downloading new software code to the MSP430F449 through the JTAG connector. The schematics and layout of the board can be used as a reference design if desired. **Features:** • TRF6903 RF transceiver • MSP430F449 microcontroller • JTAG connector • RS-232C connector • On-board PCB antenna

MSP-FET430UIF:

This is a USB interface pod (does not include target board) that is used to program and debug MSP430 FET tools and test boards through the JTAG interface. Similar to the Parallel Port interface pod included in our previous FET tools, the USB pod uses a USB PC port to communicate to the Debugger Software (IAR Kickstart software included) running on the PC. The USB interface pod uses the standard 14 pin header to communicate to the MSP430 device either using the standard JTAG or pin saving Spy-Bi-Wire (2-wire JTAG) protocol (information about which protocol is supported by the MSP430 derivative can be found in the device specific data sheet). The flash memory can be erased and programmed, and since the MSP430 flash is extremely low power, no external power supply is required. The tool has an integrated software environment and connects directly to the PC. The flash development tool supports development with all MSP430 flash parts.

MSP-FET430UXX:

This includes the hardware and software required to complete much of your application development work. The flash memory can be erased and programmed, and since the MSP430 flash is extremely low power, no external power supply is required. The tool has an integrated software environment and connects directly to the USB port of a PC which greatly simplifies the set-up and use of the tool. **Includes:** • FET development board • LED indicator • USB to JTAG adapter • Cables and header pinouts for prototyping • Two MSP430F2274IDA flash devices • Integrated IAR Kickstart user interface which includes an assembler, linker, simulator, source-level debugger and limited C-compiler • Full documentation on CD-ROM

MSP-GANG430:

This in-system gang programmer tool can be used to program up to 8 MSP430 FLASH devices simultaneously. These devices can be programmed in-circuit or in stand-alone sockets and software is included to facilitate device programming. The programming can be done with a PC or standalone. Since the graphical user interface (GUI) is DLL-based the DLL can be used independently from the GUI. Several examples show how the DLL could be applied at various high level languages (C, C++, VisualBasic, LabView) **Includes:** • In circuit gang programmer • One Cable Sub-D 9 Pin and one Cable Sub-D 25 Pin • Target expansion board • Eight 14-pin cables for connectivity of up to 8 targets • Read Me First • CD-ROM with MSP-GANG430 SW and MSP-GANG430 User's Guide.

External power supply is required and not included with MSP-GANG430. The voltage of the power supply must be between 9Vdc and 15Vdc and must be capable of providing a minimum current of 300mA.

296-16696-ND	MSP-FET430P120	**$101.00**
296-13850-ND	MSP-FET430X110	**$50.00**
296-17300-ND	MSP-TRF6903-DEMO	**$150.17**
296-22900-ND	MSP-FET430UIF	**$101.00**
296-22908-ND	MSP-FET430U14 (14 pin TSSOP)	**$152.00**
296-23115-ND	***NEW!*** MSP-FET430U23X0 (40-pin RHA)	**$152.00**
296-22910-ND	MSP-FET430U28 (20 and 28 pin SOWB)	**$152.00**
296-22904-ND	MSP-FET430U38 (38 pin TSSOP)	**$152.00**
296-22902-ND	MSP-FET430U64 (64 pin QFP)	**$152.00**
296-22901-ND	MSP-GANG430	**$203.00**

MSP430 USB Development Stick

Complete Development Tool including all the hardware and software to evaluate the MSP430F2013 and develop a complete project in a convenient USB stick form factor. The USB port provides enough power to operate the ultra-low-power MSP430 so no external power supply is required **Features:** • Development Tool including a USB debugging interface and detachable target board • LED indicator • Removable USB stick enclosure • Debugging interface supports development with all MSP430F20xx devices • Integrated IAR Kickstart user interface which includes an assembler, linker, simulator, source-level debugger and limited C-compiler • Full documentation on CD-ROM

296-20630-ND	EZ430-F2013	**$20.40**

MSP-EVK430S320 Evaluation Kit

The MSP-EVK430S320 evaluation kit supports the MSP430x32x family of devices and comes with the PMS430E325FZ (UV EPROM) assembled in a socket **Kit Includes:** • MSP430 EVK board with UV erasable EPROM, LCD, PC connector • MSP-PRGS430 serial programming adapter • IAR Kickstart IDE, assembler, linker and limited C compiler • CD-ROM with software tools and complete documentation

296-13849-ND	MSP-EVK430S320	**$407.00**

MSP-PRGS430 Serial Programmer

This serial programming adapter is a second-generation programming tool that can be used to program any MSP430 Flash, OTP or UV-EPROM device. These devices can be programmed in-circuit or in stand-alone sockets and software is included to facilitate device programming • *Power supply not included. Recommend T924-P5P-ND*

Applications: • MSP430 Flash • OTP or UV-EPROM device
Includes: • MSP-PRGS430 programmer • Serial cable • Target cable • CD-ROM • Documentation

296-16698-ND	MSP-PRGS430	**$203.00**

NEW! MSP-CCE430PRO Software Code Composer

Kit Includes: • MSP430 C compiler, assembler and linker • Source Code Debugger • Integrated Visual Project Manager • Virtual and hardware breakpoints • Integrated editor: Highlights syntax errors, Auto parameter information, and Code completion.

296-23001-ND	MSP-CCE430PRO	**$509.00**

NEW! MSP-FET430PIF Interface Debug for MSP430 FET

Kit Includes: • One READ ME FIRST document • One MSP430 CD-ROM • One MSP-FET430PIF interface module • One 25-conductor cable • One 14-conductor cable.

296-23000-ND	MSP-FET430PIF	**$50.00**

NEW! MSP-FET430U80 Programmer/Debug Kit

This powerful flash emulation tool includes the hardware and software required to begin application development on the MSP430 MCU. It includes a ZIF socket target board and a USB debugging interface (MSP-FET430UIF) used to program and debug the MSP430 in-system through the JTAG interface or Spy Bi-Wire (2-wire JTAG) protocol. The debugging tool interfaces the MSP430 to the included integrated software environment and includes code to start your design. The MSP-FET430U80 supports all MSP430 flash parts in an 80-pin LQFP package.

296-23005-ND	MSP-FET430U80	**$152.00**

NEW! Experimenter Board for MSP430

The MSP430FG4618/F2013 experimenter's board is based on the ultra-low power MSP430 family of microcontrollers.

296-23006-ND	MSP-EXP430FG4618	**$101.00**

NEW! Target Board for EZ430-F2013

Features:

• Three eZ430-T2012 target boards with a 4-pin connector to fit the eZ430-F2013 USB Development Tool MSP430F2012-based target board • Fully accessible pins • LED indicator

296-23007-ND	EZ430-T2012	**$10.20**

NEW! Development Wireless Tool for MSP430/CC2500

Features:

• USB debugging and programming interface featuring a driverless installation and application backchannel • 21 available development pins • Highly integrated, ultra-low power MSP430 MCU with 16MHz performance • Two general-purpose digital I/O pins connected to green and red LEDs for visual feedback • Interruptible push button for user feedback.

296-23031-ND	EZ430-RF2500	**$50.00**

NEW! Adapter mini-B USB Interface EVM

This EVM serves as an interface adapter or a bridge between a host PC (IBM™ compatible) and one or multiple slave devices via a standard type-A to mini-B USB cable. The communication between the USB interface adapter and the host PC is via USB, communication between the USB interface adapter and the slave device (s) is via an inter-integrated circuit (I^2C), SMBus, PMBus and/or general-purpose inputs/outputs GPIOs.

296-23114-ND	USB-TO-GPIO	**$152.00**

TMS370C756A 8-Bit Microcontroller

The TMS370Cx5x family of single-chip 8-bit microcontrollers provides cost-effective real-time system control through integration of advanced peripheral function modules and various on-chip memory configurations. This device is implemented using high-performance silicon-gate CMOS EPROM and EEPROM technologies. The low-operating power, wide-operating temperature range, and noise immunity of CMOS technology, coupled with the high performance and extensive on-chip peripheral functions, make the TMS370Cx5x devices attractive in system designs for automotive electronics, industrial motor control, computer peripheral control, telecommunications and consumer application.

- **Maximum Clock Frequency:** 20MHz
- **Operating Temperature:** -40°C ~ 85°C

Memory Size											
Program EPROM	Data RAM/EEPROM	I/O	Timer (16-Bit)	ADC	V_{CC}	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS370 Family											
16K	512/512	46	2	8-Ch., 8-Bit	5V ±10%	68-PLCC	296-10770-5-ND	16.43	15.33	14.24	TMS370C756AFNT

MSP430 Ultra-Low Power Microcontrollers

The MSP430 family of ultra-low power 16-bit RISC mixed-signal processors provides the ultimate solution for battery-powered measurement applications. **Features:** • Ultra-low power architecture extends battery life 0.1uA RAM retention, 0.8uA real-time clock mode, 250uA/MIPS active • High-performance analog ideal for precise measurements • Modern 16-bit RISC CPU enables new applications at a fraction of the code size • In-system programmable Flash permits code changes, field upgrades and data logging • 16-Bit MSP430 Architecture, a 16-bit RISC CPU, peripherals and flexible clock system are combined by using a von-Neumann common memory address bus (MAB) and memory data bus (MDB) **Memory Options:** • Flash, ROM, OTP versions (from 1KB to 60KB) • DMA controller **Modern 16-Bit RISC CPU:** • Optimized for C and assembler programming • Up to 8 MIPS of performance available **Operating Temperature:** -40°C ~ 85°C

Memory Size Flash (Program)	SRAM (Byte)	I/O	LCD Seg.	Timer (8-Bit)	Timer (16-Bit)	ADC	UART	Freq. Range Min./Max.	Vcc (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel*		Texas Instruments Part No.
												1	25	100	Qty.	Pricing	
Flash Based F1xx Family																	
1K	128	14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TVSOP	296-15781-5-ND◆	2.48	1.98	1.49	—	—	MSP430F1101AIDGV
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-13768-5-ND◆	2.48	1.98	1.49	—	—	MSP430F1101AIDW
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-13720-5-ND◆	2.48	1.98	1.49	—	—	MSP430F1101AIPW
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	24-QFN	296-16765-1-ND‡◆	2.48	1.98	1.49	250	346.50	MSP430F1101AIRGET
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-6505-5-ND◆	2.81	2.25	1.75	—	—	MSP430F1101IDW
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-9608-5-ND◆	2.81	2.25	1.75	—	—	MSP430F1101IPW
2K	128	14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TVSOP	296-15782-5-ND◆	3.04	2.43	1.89	—	—	MSP430F1111AIDGV
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-12633-5-ND◆	3.04	2.43	1.89	—	—	MSP430F1111AIDW
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-12634-5-ND◆	3.04	2.43	1.89	—	—	MSP430F1111AIPW
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	24-QFN	296-16762-1-ND‡	3.04	2.43	1.89	250	449.00	MSP430F1111AIRGET
4K	256	14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TVSOP	296-12703-5-ND◆	3.83	3.06	2.38	—	—	MSP430F1121AIDGV
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-13457-5-ND	3.83	3.06	2.38	—	—	MSP430F1121AIDW
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-13458-5-ND◆	3.83	3.06	2.38	—	—	MSP430F1121AIPW
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	24-QFN	296-15891-1-ND‡◆	3.83	3.06	2.38	3,000	2168.00/M	MSP430F1121AIRGER
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-6507-5-ND◆	4.84	3.87	3.01	—	—	MSP430F1121IDW
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-6508-5-ND◆	4.84	3.87	3.01	—	—	MSP430F1121IPW
		14	—	—	1	Slope	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-9610-5-ND◆	4.73	3.78	2.94	—	—	MSP430F112IPW
		14	—	—	1	Slope	—	DC-5.35MHz	2.5 ~ 5.5	20-SOIC	296-6510-5-ND◆	5.40	4.32	3.36	—	—	MSP430P112IDW
		14	—	—	1	8-Ch., 10-Bit	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-13776-5-ND◆	4.50	3.60	2.80	—	—	MSP430F1122IDW
		14	—	—	1	8-Ch., 10-Bit	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-13777-5-ND◆	4.50	3.60	2.80	—	—	MSP430F1122IPW
		14	—	—	1	8-Ch., 10-Bit	—	DC-8MHz	1.8 ~ 3.6	32-QFN	296-17137-1-ND‡◆	4.50	3.60	2.80	250	665.00	MSP430F1122IRHBT
		22	—	—	1	Slope	1	DC-8MHz	1.8 ~ 3.6	28-TSSOP	296-12082-5-ND◆	4.84	3.87	3.01	—	—	MSP430F122IPW
		22	—	—	1	Slope	1	DC-8MHz	1.8 ~ 3.6	32-QFN	296-15851-1-ND‡	4.84	3.87	3.01	3,000	2709.00/M	MSP430F122IRHBR
		22	—	—	1	8-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	28-SOIC	296-13780-5-ND◆	5.40	4.32	3.36	—	—	MSP430F1222IDW
		22	—	—	1	8-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	28-TSSOP	296-13781-5-ND◆	5.40	4.32	3.36	—	—	MSP430F1222IPW
		22	—	—	1	8-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	32-QFN	296-16794-1-ND‡◆	5.40	4.32	3.36	250	798.00	MSP430F1222IRHBT
8K	256	14	—	—	1	8-Ch., 10-Bit	—	DC-8MHz	1.8 ~ 3.6	20-SOIC	296-13778-5-ND◆	5.06	4.05	3.15	—	—	MSP430F1132IDW
		14	—	—	1	8-Ch., 10-Bit	—	DC-8MHz	1.8 ~ 3.6	20-TSSOP	296-13779-5-ND◆	5.06	4.05	3.15	—	—	MSP430F1132IPW
		14	—	—	1	8-Ch., 10-Bit	—	DC-8MHz	1.8 ~ 3.6	32-QFN	296-17133-1-ND‡◆	5.06	4.05	3.15	250	748.25	MSP430F1132IRHBT
		22	—	—	1	Slope	1	DC-8MHz	1.8 ~ 3.6	28-SOIC	296-13101-5-ND◆	5.18	4.14	3.22	—	—	MSP430F123IDW
		22	—	—	1	Slope	1	DC-8MHz	1.8 ~ 3.6	28-TSSOP	296-12083-5-ND◆	5.18	4.14	3.22	—	—	MSP430F123IPW
		22	—	—	1	Slope	1	DC-8MHz	1.8 ~ 3.6	32-QFN	296-15852-1-ND‡	5.18	4.14	3.22	3,000	2898.00/M	MSP430F123IRHBR
		22	—	—	1	8-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	28-SOIC	296-13782-5-ND◆	5.00	4.00	3.38	—	—	MSP430F1232IDW
		22	—	—	1	8-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	28-TSSOP	296-13783-5-ND◆	5.00	4.00	3.38	—	—	MSP430F1232IPW
		22	—	—	1	8-Ch., 10-Bit	1	DC-8MHz	1.8 ~ 3.6	32-QFN	296-16795-1-ND‡◆	5.00	4.00	3.38	3,000	3100.00/M	MSP430F1232IRHBR
		48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-TQFP	296-15894-ND◆	6.00	4.80	4.05	—	—	MSP430F133IPAG
		48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-9611-ND◆	6.00	4.80	4.05	—	—	MSP430F133IPM
		48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-QFN	296-17141-1-ND‡◆	6.00	4.80	4.05	250	975.00	MSP430F133IRTDT
		48	96	—	2	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-15857-1-ND‡	7.50	6.00	5.07	1,000	4688.00	MSP430FW423IPMR
16K	256	48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-TQFP	296-15892-ND	7.20	5.76	4.86	—	—	MSP430F135IPAG
		48	96	—	2	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-15858-1-ND‡	8.10	6.48	5.47	1,000	5063.00	MSP430FW425IPMR
	512	48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-9612-ND◆	7.20	5.76	4.86	—	—	MSP430F135IPM
		48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-QFN	296-17142-1-ND‡◆	7.20	5.76	4.86	250	1170.00	MSP430F135IRTDT
		48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16837-ND◆	9.90	7.92	6.69	—	—	MSP430F155IPM
		48	—	—	3	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-QFN	296-21438-1-ND‡◆	9.90	7.92	6.69	250	1608.75	MSP430F155IRTDT
24K	1K	48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16838-ND◆	9.25	8.33	7.39	—	—	MSP430F156IPM
32K	256	48	—	—	2	Slope	2	DC-8MHz	1.8 ~ 3.6	64-TQFP	296-15893-ND◆	8.41	7.58	6.72	—	—	MSP430F147IPAG
		48	96	—	2	Slope	—	DC-8MHz	1.8 ~ 3.6	64-TQFP	296-15859-1-ND‡◆	8.90	7.12	6.01	1,000	5563.00	MSP430FW427IPMR
	1K	48	—	—	2	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-9613-ND◆	8.41	7.58	6.72	—	—	MSP430F147IPM
		48	—	—	2	Slope	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-15701-ND◆	9.20	7.36	6.21	—	—	MSP430F1471IPM
		48	—	—	2	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-QFN	296-17143-1-ND‡◆	9.20	7.36	6.21	250	1495.00	MSP430F147IRTDT
		48	—	—	2	Slope	2	DC-8MHz	1.8 ~ 3.6	64-QFN	296-17144-1-ND‡◆	8.41	7.58	6.72	250	1609.75	MSP430F1471IRTDT
		48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16839-ND◆	9.75	8.78	7.79	—	—	MSP430F157IPM
		48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16840-ND◆	11.25	10.13	8.98	—	—	MSP430F167IPM
	5120	48	—	—	3	8-Ch., 12-Bit	2	DC-4.15MHz	1.8 ~ 3.6	64-LQFP	296-18501-ND◆	13.74	12.38	10.98	—	—	MSP430F1610IPM
		48	—	—	3	8-Ch., 12-Bit	2	DC-4.15MHz	1.8 ~ 3.6	64-QFN	296-18101-1-ND‡◆	13.74	12.38	10.98	250	2629.75	MSP430F1610IRTDT
48K	2K	48	—	—	2	Slope	2	DC-8MHz	1.8 ~ 3.6	64-TQFP	296-15856-ND◆	9.58	8.63	7.65	—	—	MSP430F148IPAG
		48	—	—	2	Slope	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-15702-ND◆	8.83	7.95	7.05	—	—	MSP430F1481IPM
		48	—	—	2	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-9614-ND◆	9.58	8.63	7.65	—	—	MSP430F148IPM
		48	—	—	2	Slope	2	DC-8MHz	1.8 ~ 3.6	64-QFN	296-17145-1-ND‡◆	8.83	7.95	7.05	250	1689.50	MSP430F1481IRTDT
		48	—	—	2	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-QFN	296-17146-1-ND‡◆	9.58	8.63	7.65	250	1832.75	MSP430F148IRTDT
		48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16841-ND◆	12.41	11.18	9.91	—	—	MSP430F168IPM
	2048	48	—	—	3	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-QFN	296-20716-1-ND‡◆	12.41	11.18	9.91	250	2374.75	MSP430F168IRTDT
	10K	48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-17205-ND◆	14.41	12.98	11.51	—	—	MSP430F1611IPM
	10240	48	—	—	3	8-Ch., 12-Bit	2	DC-4.15MHz	1.8 ~ 3.6	64-QFN	296-18102-1-ND‡◆	14.41	12.98	11.51	250	2757.25	MSP430F1611IRTDT
55K	5120	48	—	—	3	8-Ch., 12-Bit	2	DC-4.15MHz	1.8 ~ 3.6	64-LQFP	296-17885-ND◆	14.91	13.43	11.91	—	—	MSP430F1612IPM
		48	—	—	3	8-Ch., 12-Bit	2	DC-4.15MHz	1.8 ~ 3.6	64-QFN	296-18103-1-ND‡◆	14.91	13.43	11.91	250	2852.75	MSP430F1612IRTDT
60K	2K	48	—	—	2	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-15703-ND◆	9.33	8.40	7.45	—	—	MSP430F1491IPM
		48	—	—	2	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-TQFP	296-13102-ND◆	10.08	9.08	8.05	—	—	MSP430F149IPAG
		48	—	—	2	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-9615-ND◆	10.08	9.08	8.05	—	—	MSP430F149IPM
		48	—	—	2	Slope	2	DC-8MHz	1.8 ~ 3.6	64-QFN	296-17147-1-ND‡◆	9.33	8.40	7.45	250	1785.00	MSP430F1491IRTDT
		48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16842-ND◆	13.24	11.93	10.58	—	—	MSP430F169IPM
		48	—	—	3	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-17009-1-ND‡◆	13.24	11.93	10.58	1,000	9818.00	MSP430F169IPMR
		48	—	—	3	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-QFN	296-17556-1-ND‡◆	10.08	9.08	8.05	250	1928.50	MSP430F149IRTDT
	2048	48	—	—	3	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	64-QFN	296-21320-1-ND‡◆	13.24	11.93	10.58	250	2534.00	MSP430F169IRTDT
Flash Based F4xx Family with LCD Driver																	
4K	256	48	96	2	1	Slope	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-12084-ND	5.20	4.16	3.51	—	—	MSP430F412IPM
		48	96	2	1	Slope	1	DC-8MHz	1.8 ~ 3.6	64-QFN	296-17323-1-ND‡	5.20	4.16	3.51	250	845.00	MSP430F412IRTDT
8K	256	48	96	2	1	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-12085-ND◆	5.90	4.72	3.99	—	—	MSP430F413IPM
		48	96	2	1	Slope	1	DC-8MHz	1.8 ~ 3.6	64-QFN	296-17324-1-ND‡◆	5.90	4.72	3.99	250	958.75	MSP430F413IRTDT
		48	96	2	1	Slope	1	DC-8MHz	1.8 ~ 3.6	64-QFN	296-17412-1-ND‡	5.90	4.72	3.99	2,500	3658.00/M	MSP430F413IRTDR
		14	128	2	1	3-Ch., 16-Bit**	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-17108-ND◆	9.00	7.20	6.08	—	—	MSP430F423IPM
		14	128	2	1	3-Ch., 16-Bit**	1	DC-8.4MHz	2.7 ~ 3.6	64-LQFP	296-16991-ND◆	9.70	7.76	6.55	—	—	MSP430FE423IPM
16K	256	32	56	—	3	16-Bit**	—	DC-4.15MHz	1.8 ~ 3.6	48-SSOP	296-18068-1-ND‡◆	6.20	4.96	4.19	1,000	3875.00	MSP430F4250IDLR
		32	56	—	1	16-Bit**	1	DC-8MHz	1.8 ~ 3.6	48-SSOP	296-22056-5-ND◆	6.70	5.36	4.53	—	—	MSP430FG4250IDL
		32	56	—	3	16-Bit**	—	DC-4.15MHz	1.8 ~ 3.6	48-QFN	296-19264-1-ND‡◆	6.20	4.96	4.19	250	1007.50	MSP430F4250IRGZT
		32	56	—	1	16-Bit**	1	DC-8MHz	1.8 ~ 3.6	48-QFN	296-22057-1-ND‡◆	6.70	5.36	4.53	2,500	4154.00/M	MSP430FG4250IRGZR
	512	48	96	2	2	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16766-ND◆	6.80	5.44	4.59	—	—	MSP430F415IPM
		48	96	2	2	Slope	1	DC-8MHz	1.8 ~ 3.6	64-QFN	296-22753-1-ND‡◆	6.80	5.44	4.59	250	1105.00	MSP430F415IRTDT
		48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-13721-ND◆	8.90	7.12	6.01	—	—	MSP430F435IPN
		48	128/160	2	2	12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-22757-1-ND‡◆	8.10	6.48	5.47	1,000	5063.00	MSP430F4351IPNR
		48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-12635-ND	8.90	7.12	6.01	—	—	MSP430F435IPZ
		48	128/160	2	2	12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-22758-1-ND‡◆	8.10	6.48	5.47	1,000	5063.00	MSP430F4351IPZR
		14	128	2	1	3-Ch., 16-Bit**	1	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-17109-ND◆	9.90	7.92	6.69	—	—	MSP430F425IPM
		14	128	2	1	3-Ch., 16-Bit**	1	DC-8.4MHz	2.7 ~ 3.6	64-LQFP	296-16992-ND◆	9.08	8.18	7.25	—	—	MSP430FE425IPM

◆ ***RoHS Compliant*** * For Tape and Reel part number, change 1-ND to 2-ND. ** Sigma Delta ‡ Cut Tape § Operating Temperature: -40°C ~ 105°C *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MSP430 Ultra-Low Power Microcontrollers *(Cont.)*

Memory Size Flash (Program)	SRAM (Byte)	I/O	LCD Seg.	Timer (8-Bit)	Timer (16-Bit)	ADC	UART	Freq. Range Min./Max.	Vcc (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel*		Texas Instruments Part No.
												1	25	100	Qty.	Pricing	
24K	256	32	56	—	3	16-Bit**	—	DC-4.15MHz	1.8 ~ 3.6	48-SSOP	296-18069-1-ND‡◆	6.90	5.52	4.66	1,000	4313.00	MSP430F4260IDLR
		32	56	—	1	16-Bit**	1	DC-8MHz	1.8 ~ 3.6	48-SSOP	296-22058-1-ND‡◆	7.40	5.92	5.00	1,000	4625.00	MSP430FG4260IDLR
		32	56	—	3	5-Ch., 16-Bit**	1	DC-8MHz	1.8 ~ 3.6	48-QFN	296-20939-1-ND‡◆	6.90	5.52	4.66	250	1121.25	MSP430F4260IRGZT
		32	56	—	1	16-Bit**	1	DC-8MHz	1.8 ~ 3.6	48-QFN	296-22059-1-ND‡◆	7.40	5.92	5.00	2,500	4588.00/M	MSP430FG4260IRGZR
	1K	48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-13722-ND◆	9.40	7.52	6.35	—	—	MSP430F436IPN
		48	128/160	2	2	12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-22759-1-ND‡◆	8.60	6.88	5.81	1,000	5375.00	MSP430F4361IPNR
		48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-12636-ND◆	9.40	7.52	6.35	—	—	MSP430F436IPZ
		48	128/160	2	2	12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-22760-1-ND‡◆	8.60	6.88	5.81	1,000	5375.00	MSP430F4361IPZR
32K	256	32	56	—	3	16-Bit**	—	DC-4.15MHz	1.8 ~ 3.6	48-SSOP	296-18070-1-ND‡◆	7.60	6.08	5.13	1,000	4750.00	MSP430F4270IDLR
		32	56	—	1	16-Bit**	1	DC-8MHz	1.8 ~ 3.6	48-SSOP	296-22060-1-ND‡◆	8.10	6.48	5.47	1,000	5063.00	MSP430FG4270IDLR
		32	56	—	3	5-Ch., 16-Bit	—	DC-8MHz	1.8 ~ 3.6	48-QFN	296-19679-1-ND‡◆	7.60	6.08	5.13	250	1235.00	MSP430F4270IRGZT
		32	56	—	1	16-Bit**	1	DC-8MHz	1.8 ~ 3.6	48-QFN	296-22061-1-ND‡◆	8.10	6.48	5.47	250	1316.25	MSP430FG4270IRGZT
	1K	48	96	2	2	Slope	—	DC-8MHz	1.8 ~ 3.6	64-LQFP	296-16767-ND◆	7.80	6.24	5.27	—	—	MSP430F417IPM
		48	96	2	2	Slope	1	DC-8MHz	1.8 ~ 3.6	64-QFN	296-22755-1-ND‡◆	7.80	6.24	5.27	250	1267.50	MSP430F417IRTDT
		48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-13723-ND◆	9.80	7.84	6.62	—	—	MSP430F437IPN
		48	128/160	2	2	12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-22761-1-ND‡◆	9.00	7.20	6.08	1,000	5625.00	MSP430F4371IPNR
		48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-12637-ND◆	9.80	7.84	6.62	—	—	MSP430F437IPZ
		48	128/160	2	2	12-Bit	1	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-22762-1-ND‡◆	9.00	7.20	6.08	1,000	5625.00	MSP430F4371IPZR
		48	128	2	2	3-Ch., 16-Bit**	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-17011-ND◆	10.83	9.75	8.65	—	—	MSP430FG437IPN
		48	160	2	2	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-12638-ND◆	9.58	8.63	7.65	—	—	MSP430F447IPZ
		48	128	—	3	12-Ch., 16-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-18611-1-ND‡◆	10.83	9.75	8.65	1,000	8028.00	MSP430FG437IPNR
		14	128	—	1	3-Ch., 16-Bit**	1	DC-8.4MHz	1.8 ~ 3.6	64-LQFP	296-17110-ND	9.00	8.10	7.19	—	—	MSP430F427IPM
		14	128	—	1	3-Ch., 16-Bit**	1	DC-8.4MHz	2.7 ~ 3.6	64-LQFP	296-16993-ND◆	9.91	8.93	7.92	—	—	MSP430FE427IPM
48K	2K	48	160	2	2	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-12639-ND◆	10.83	9.75	8.65	—	—	MSP430F448IPZ
		48	128	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-17012-ND◆	12.25	11.03	9.78	—	—	MSP430FG438IPN
60K	2K	48	160	2	2	8-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-12640-ND◆	11.75	10.58	9.38	—	—	MSP430F449IPZ
		48	128	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8 ~ 3.6	80-LQFP	296-17013-ND◆	13.24	11.93	10.58	—	—	MSP430FG439IPN
92K	4096	80	160	2	3	12-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-21307-ND◆	15.74	14.18	12.57	—	—	MSP430FG4616IPZ
	8192	80	160	2	3	12-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-21308-ND◆	16.58	14.93	13.24	—	—	MSP430FG4617IPZ
116K	8192	80	160	2	3	12-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-21309-ND◆	15.53	14.49	13.46	—	—	MSP430FG4618IPZ
120K	4096	80	160	2	3	12-Ch., 12-Bit	2	DC-8MHz	1.8 ~ 3.6	100-LQFP	296-21294-ND◆	16.58	14.93	13.24	—	—	MSP430FG4619IPZ
120K	4096	80	160	2	1	12-Bit	1	DC-8MHz	1.8 ~ 3.6	113-BGA	296-23094-1-ND◆ ***NEW!***	16.58	14.93	13.24	2,500	12089.00/M	MSP430FG4619IZQWR
48K	2480	72	160	2	2	3-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	100-LQFP	296-22914-1-ND◆ ***NEW!***	12.50	11.25	9.98	1,000	9263.00	MSP430F4783IPZR
ROM/OTP Based X2xx Family with LCD Driver — EPROM/OTP (Program) Memory																	
1K	128	10	—	—	2	Slope	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19685-5-ND◆	1.38	1.10	.83	—	—	MSP430F2001IN
		10	—	—	2	Slope	1	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19686-1-ND‡◆	1.38	1.10	.83	2,000	715.00/M	MSP430F2001IPWR
		10	—	—	2	Slope	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-19687-1-ND‡◆	1.38	1.10	.83	250	192.50	MSP430F2001IRSAT
		10	—	—	2	Slope	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19688-5-ND§◆	1.50	1.20	.90	—	—	MSP430F2001TN
		10	—	—	2	Slope	1	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19689-1-ND‡§◆	1.38	1.10	.83	2,000	715.00/M	MSP430F2001TPWR
		10	—	—	2	Slope	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-19690-1-ND‡§◆	1.38	1.10	.83	250	192.50	MSP430F2001TRSAT
		10	—	—	2	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19724-5-ND◆	2.38	1.90	1.43	—	—	MSP430F2002IN
		10	—	—	2	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19725-1-ND‡◆	2.00	1.60	1.20	2,000	1040.00/M	MSP430F2002IPWR
		10	—	—	2	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-19726-1-ND‡◆	2.13	1.70	1.28	250	297.50	MSP430F2002IRSAT
		10	—	—	2	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19727-5-ND§◆	2.38	1.90	1.43	—	—	MSP430F2002TN
		10	—	—	2	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19728-1-ND‡§◆	2.13	1.70	1.28	2,000	1105.00/M	MSP430F2002TPWR
		10	—	—	2	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-19729-1-ND‡§◆	2.25	1.80	1.35	250	315.00	MSP430F2002TRSAT
		10	—	—	2	4-Ch., 16-Bit	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19691-5-ND◆	2.70	2.16	1.68	—	—	MSP430F2003IN
		10	—	—	2	4-Ch., 16-Bit	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-19692-1-ND‡◆	2.70	2.16	1.68	250	399.00	MSP430F2003IRSAT
		10	—	—	2	4-Ch., 16-Bit	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19693-5-ND§◆	2.81	2.25	1.75	—	—	MSP430F2003TN
		10	—	—	2	4-Ch., 16-Bit	1	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19694-1-ND‡§◆	2.81	2.25	1.75	2,000	1594.00/M	MSP430F2003TPWR
		10	—	—	2	4-Ch., 16-Bit	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-19695-1-ND‡§◆	2.81	2.25	1.75	250	415.75	MSP430F2003TRSAT
		10	—	—	1	3-Ch., 16-Bit	—	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19313-1-ND‡◆	2.70	2.16	1.68	2,000	1530.00/M	MSP430F2003IPWR
		16	—	—	3	Slope	2	DC-6.0MHz	1.8 ~ 3.6	20-TVSOP	296-18104-ND◆	1.88	1.50	1.13	—	—	MSP430F2101IDGV
		16	—	—	3	Slope	2	DC-6.0MHz	1.8 ~ 3.6	20-SOIC	296-18105-1-ND‡◆	1.88	1.50	1.13	2,000	975.00/M	MSP430F2101IDWR
		16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TSSOP	296-18106-1-ND‡◆	1.88	1.50	1.13	2,000	975.00/M	MSP430F2101IPWR
		16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	24-QFN	296-18107-1-ND‡◆	1.88	1.50	1.13	250	262.50	MSP430F2101IRGET
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	20-TVSOP	296-20749-1-ND‡§◆	2.00	1.60	1.20	2,000	1040.00/M	MSP430F2101TDGVR
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	20-SOIC	296-20750-1-ND‡§◆	2.00	1.60	1.20	2,000	1040.00/M	MSP430F2101TDWR
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	20-TSSOP	296-20751-1-ND‡§◆	2.00	1.60	1.20	2,000	1040.00/M	MSP430F2101TPWR
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	24-QFN	296-20752-1-ND‡§◆	2.00	1.60	1.20	250	280.00	MSP430F2101TRGET
2K	128	10	—	—	2	Slope	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19696-5-ND◆	1.75	1.40	1.05	—	—	MSP430F2011IN
		10	—	—	2	Slope	1	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19697-1-ND‡◆	1.63	1.30	.98	2,000	845.00/M	MSP430F2011IPWR
		10	—	—	2	Slope	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-19698-1-ND‡◆	1.63	1.30	.98	250	227.50	MSP430F2011IRSAT
		10	—	—	2	Slope	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19699-5-ND§◆	1.88	1.50	1.13	—	—	MSP430F2011TN
		10	—	—	2	Slope	1	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19700-1-ND‡§◆	1.75	1.40	1.05	2,000	910.00/M	MSP430F2011TPWR
		10	—	—	2	Slope	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-19701-1-ND‡§◆	1.75	1.40	1.05	250	245.00	MSP430F2011TRSAT
		10	—	—	2	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19730-5-ND◆	2.36	1.89	1.47	—	—	MSP430F2012IN
		10	—	—	2	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19731-1-ND‡◆	2.38	1.90	1.43	2,000	1235.00/M	MSP430F2012IPWR
		10	—	—	2	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-19732-1-ND‡◆	2.38	1.90	1.43	250	332.50	MSP430F2012IRSAT
		10	—	—	2	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19733-5-ND§◆	2.36	1.89	1.47	—	—	MSP430F2012TN
		10	—	—	2	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19734-1-ND‡§◆	2.25	1.80	1.40	2,000	1275.00/M	MSP430F2012TPWR
		10	—	—	2	8-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-19735-1-ND‡§◆	2.25	1.80	1.40	250	332.50	MSP430F2012TRSAT
		10	—	—	2	4-Ch., 16-Bit	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19702-5-ND◆	3.38	2.70	2.10	—	—	MSP430F2013IN
		10	—	—	2	4-Ch., 16-Bit	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-19703-1-ND‡◆	3.04	2.43	1.89	250	449.00	MSP430F2013IRSAT
		10	—	—	2	4-Ch., 16-Bit	1	DC-16MHz	1.8 ~ 3.6	14-DIP	296-19704-5-ND§◆	3.49	2.79	2.17	—	—	MSP430F2013TN
		10	—	—	2	4-Ch., 16-Bit	1	DC-16MHz	1.8 ~ 3.6	14-TSSOP	296-19705-1-ND‡§◆	3.15	2.52	1.96	2,000	1785.00/M	MSP430F2013TPWR
		10	—	—	2	4-Ch., 16-Bit	1	DC-16MHz	1.8 ~ 3.6	16-QFN	296-19706-1-ND‡§◆	3.15	2.52	1.96	250	465.50	MSP430F2013TRSAT
		10	—	—	1	3-Ch., 16-Bit	1	DC-6.0MHz	1.8 ~ 3.6	14-TSSOP	296-19262-1-ND‡◆	3.04	2.43	1.89	2,000	1721.00/M	MSP430F2013IPWR
		16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TVSOP	296-18108-ND◆	2.25	1.80	1.40	—	—	MSP430F2111IDGV
		16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-SOIC	296-18109-1-ND‡◆	2.00	1.60	1.20	2,000	1040.00/M	MSP430F2111IDWR
		16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TSSOP	296-18110-1-ND‡◆	2.00	1.60	1.20	2,000	1040.00/M	MSP430F2111IPWR
		16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	24-QFN	296-18111-1-ND‡◆	2.00	1.60	1.20	250	280.00	MSP430F2111IRGET
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	20-TVSOP	296-20753-1-ND‡§◆	2.13	1.70	1.28	2,000	1105.00/M	MSP430F2111TDGVR
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	20-SOIC	296-20754-1-ND‡§◆	2.13	1.70	1.28	2,000	1105.00/M	MSP430F2111TDWR
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	20-TSSOP	296-20755-1-ND‡§◆	2.13	1.70	1.28	2,000	1105.00/M	MSP430F2111TPWR
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	24-QFN	296-20756-1-ND‡§◆	2.13	1.70	1.28	250	297.50	MSP430F2111TRGET
4K	256	16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TVSOP	296-18112-ND◆	2.48	1.98	1.54	—	—	MSP430F2121IDGV
		16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-SOIC	296-18113-1-ND‡◆	2.48	1.98	1.54	2,000	1403.00/M	MSP430F2121IDWR
		16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TSSOP	296-18114-1-ND‡◆	2.48	1.98	1.54	2,000	1403.00/M	MSP430F2121IPWR
		16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	24-QFN	296-18115-1-ND‡◆	2.48	1.98	1.54	250	365.75	MSP430F2121IRGET
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	20-TVSOP	296-20757-1-ND‡§◆	2.59	2.07	1.61	2,000	1466.00/M	MSP430F2121TDGVR
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	20-SOIC	296-20758-1-ND‡§◆	2.59	2.07	1.61	2,000	1466.00/M	MSP430F2121TDWR
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	20-TSSOP	296-20759-1-ND‡§◆	2.59	2.07	1.61	2,000	1466.00/M	MSP430F2121TPWR
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	24-QFN	296-20760-1-ND‡§◆	2.59	2.07	1.61	250	382.50	MSP430F2121TRGET
8K	256	16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TVSOP	296-18116-ND◆	3.15	2.52	1.96	—	—	MSP430F2131IDGV
		16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-SOIC	296-18117-1-ND‡◆	3.15	2.52	1.96	2,000	1785.00/M	MSP430F2131IDWR
		16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	20-TSSOP	296-18118-1-ND‡◆	3.15	2.52	1.96	2,000	1785.00/M	MSP430F2131IPWR
		16	—	—	3	Slope	—	DC-6.0MHz	1.8 ~ 3.6	24-QFN	296-18119-1-ND‡◆	3.15	2.52	1.96	250	465.50	MSP430F2131IRGET
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	20-TVSOP	296-20761-1-ND‡§◆	3.15	2.52	1.96	2,000	1785.00/M	MSP430F2131TDGVR
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	20-SOIC	296-20762-1-ND‡§◆	3.15	2.52	1.96	2,000	1785.00/M	MSP430F2131TDWR
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	20-TSSOP	296-20763-1-ND‡§◆	3.15	2.52	1.96	2,000	1785.00/M	MSP430F2131TPWR
		16	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	24-QFN	296-20764-1-ND‡§◆	3.15	2.52	1.96	250	465.50	MSP430F2131TRGET
	1K	32	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21746-1-ND‡◆	4.16	3.33	2.59	250	615.25	MSP430F2330IRHAT
		32	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21747-1-ND‡§◆	4.28	3.42	2.66	250	631.75	MSP430F2330TRHAT
		48	—	—	2	12-Bit	1	DC-16MHz	1.8 ~ 3.6	64-QFN	296-22991-1-ND‡§ ***NEW!***	5.40	4.32	3.36	2,500	3024.00/M	MSP430F233TRGCR
		48	—	—	2	12-Bit	1	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-23029-1-ND‡§ ***NEW!***	5.40	4.32	3.36	1,000	3060.00	MSP430F233TPMR

◆ ***RoHS Compliant*** * For Tape and Reel part number, change 1-ND to 2-ND. ** Sigma Delta ‡ Cut Tape § Operating Temperature: -40°C ~ 105°C *(Continued)*

MSP430 Ultra-Low Power Microcontrollers *(Cont.)*

Memory Size Flash (Program)	SRAM (Byte)	I/O	LCD Seg.	Timer (8-Bit)	Timer (16-Bit)	ADC	UART	Freq. Range Min./Max.	Vcc (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel*		Texas Instruments Part No.
												1	25	100	Qty.	Pricing	
8K	512	32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21444-1-ND‡◆	4.39	3.51	2.73	2,000	2486.00/M	MSP430F2232IDAR
		32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21445-1-ND‡◆	4.39	3.51	2.73	250	648.50	MSP430F2232IRHAT
		32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21446-1-ND‡◆	4.84	3.87	3.01	2,000	2741.00/M	MSP430F2234IDAR
		32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21447-1-ND‡◆	4.84	3.87	3.01	250	715.00	MSP430F2234IRHAT
		32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21448-1-ND‡§◆	4.95	3.96	3.08	2,000	2805.00/M	MSP430F2234TDAR
		32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21449-1-ND‡§◆	4.95	3.96	3.08	250	731.50	MSP430F2234TRHAT
16K	512	14	64/92	2	—	Slope	—	DC-3.3MHz	2.5 ~ 5.5	56-SSOP	296-2382-5-ND◆	8.75	7.88	6.99	—	—	MSP430P315IDL
		14	64/92	2	—	Slope	—	DC-3.3MHz	2.5 ~ 5.5	48-SSOP	296-6512-5-ND◆	8.75	7.88	6.99	—	—	MSP430P315SIDL
		14	84	2	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.5 ~ 5.5	68-PLCC	296-6513-5-ND◆	11.58	10.43	9.25	—	—	MSP430P325AIFN
		14	84	2	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.5 ~ 5.5	64-QFP	296-6514-ND◆	11.41	10.28	9.12	—	—	MSP430P325AIPG
		14	84	2	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.5 ~ 5.5	64-LQFP	296-6515-ND◆	11.41	10.28	9.12	—	—	MSP430P325AIPM
		14	84	2	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.7 ~ 5.5	68-PLCC	296-1409-5-ND	11.58	10.43	9.25	—	—	MSP430P325IFN
		14	84	2	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.7 ~ 5.5	64-QFP	296-2383-ND	11.50	10.35	9.18	—	—	MSP430P325IPG
		14	84	2	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.7 ~ 5.5	64-LQFP	296-6516-ND◆	11.41	10.28	9.12	—	—	MSP430P325IPM
		32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21450-1-ND‡◆	4.95	3.96	3.08	2,000	2805.00/M	MSP430F2252IDAR
		32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21451-1-ND‡◆	4.95	3.96	3.08	250	731.50	MSP430F2252IRHAT
		32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21452-1-ND‡◆	5.40	4.32	3.36	2,000	3060.00/M	MSP430F2254IDAR
		32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21453-1-ND‡◆	5.40	4.32	3.36	250	798.00	MSP430F2254IRHAT
		32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21454-1-ND‡§◆	5.40	4.32	3.36	2,000	3060.00/M	MSP430F2254TDAR
		32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21455-1-ND‡§◆	5.40	4.32	3.36	250	798.00	MSP430F2254TRHAT
	2K	32	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21748-1-ND‡◆	4.84	3.87	3.01	250	715.00	MSP430F2350IRHAT
		32	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21749-1-ND‡§◆	4.95	3.96	3.08	250	731.50	MSP430F2350TRHAT
		48	—	—	2	12-Bit	—	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22879-1-ND‡§ ***NEW!***	5.80	4.64	3.92	1,000	3625.00	MSP430F235TPMR
32K	1K	32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21456-1-ND‡◆	5.00	4.00	3.38	2,000	3125.00/M	MSP430F2272IDAR
		32	—	—	3	12-Ch., 10-Bit	2	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21441-1-ND‡◆	5.00	4.00	3.38	250	812.50	MSP430F2272IRHAT
		32	—	—	3	12-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21439-1-ND‡◆	5.40	4.32	3.65	2,000	3375.00/M	MSP430F2274IDAR
		32	—	—	3	12-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21459-1-ND‡◆	5.40	4.32	3.65	250	877.50	MSP430F2274IRHAT
		32	—	—	3	12-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	38-TSSOP	296-21460-1-ND‡§◆	5.50	4.40	3.72	2,000	4250.00/M	MSP430F2274TDAR
		32	—	—	3	12-Ch., 10-Bit	1	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21440-1-ND‡§◆	5.50	4.40	3.72	250	893.75	MSP430F2274TRHAT
		40	120	2	1	Slope	1	DC-3.8MHz	2.7 ~ 5.5	100-QFP	296-2384-ND◆	12.74	11.48	10.18	—	—	MSP430P337AIPJM
		40	120	2	1	Slope	1	DC-3.8MHz	2.7 ~ 5.5	100-QFP	296-6517-ND◆	12.74	11.48	10.18	—	—	MSP430P337IPJM
	4K	32	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21750-1-ND‡◆	5.40	4.32	3.36	250	798.00	MSP430F2370IRHAT
		48	—	—	1	Slope	—	DC-16MHz	1.8 ~ 3.6	64-QFN	296-23080-1-ND‡§ ***NEW!***	7.40	5.92	5.00	2,500	4588.00/M	MSP430F2471TRGCR
		48	—	—	3	Slope	1	DC-16MHz	1.8 ~ 3.6	40-QFN	296-21751-1-ND‡§◆	5.40	4.32	3.36	250	798.00	MSP430F2370TRHAT
		48	—	—	1	12-Bit	—	DC-16MHz	1.8 ~ 3.6	64-QFN	296-23081-1-ND‡§ ***NEW!***	8.10	6.48	5.47	2,500	5022.00/M	MSP430F247TRGCR
		48	—	—	1	Slope	2	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-23072-1-ND‡§ ***NEW!***	7.40	5.92	5.00	1,000	4625.00	MSP430F2471TPMR
48K	4K	48	—	—	1	12-Bit	—	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22893-1-ND‡§ ***NEW!***	9.20	7.36	6.21	1,000	5681.00	MSP430F248TPMR
		48	—	—	1	12-Bit	—	DC-16MHz	1.8 ~ 3.6	64-QFN	296-22894-1-ND‡§ ***NEW!***	9.20	7.36	6.21	2,500	5589.00/M	MSP430F248TRGCR
		48	—	—	1	Slope	—	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-23082-1-ND‡§ ***NEW!***	8.50	6.80	5.74	1,000	5313.00	MSP430F2481TPMR
		48	—	—	1	Slope	—	DC-16MHz	1.8 ~ 3.6	64-QFN	296-23083-1-ND‡§ ***NEW!***	8.50	6.80	5.74	2,500	5270.00/M	MSP430F2481TRGCR
56K	4K	48	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22929-1-ND‡§◆	9.70	7.76	6.55	1,000	5990.00	MSP430F2410TPMR
		48	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-QFN	296-22930-1-ND‡§◆	9.70	7.76	6.55	2,500	5893.00/M	MSP430F2410TRGCR
60K	2K	48	—	—	1	12-Bit	—	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-23084-1-ND‡§ ***NEW!***	9.50	7.60	6.42	1,000	5938.00	MSP430F249TPMR
		48	—	—	1	12-Bit	—	DC-16MHz	1.8 ~ 3.6	64-QFN	296-23085-1-ND‡§ ***NEW!***	9.50	7.60	6.42	2,500	5890.00/M	MSP430F249TRGCR
		48	—	—	2	Slope	2	DC-16MHz	1.8 ~ 3.6	64-QFN	296-22931-1-ND‡§◆	8.80	7.04	5.94	2,500	5346.00/M	MSP430F2491TRGCR
92K	4K	48	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22685-1-ND‡§◆	9.33	8.40	7.45	1,000	6916.00	MSP430F2416TPMR
		64	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22686-1-ND‡§◆	9.33	8.40	7.45	1,000	6916.00	MSP430F2416TPNR
		48	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22693-1-ND‡§◆	11.83	10.65	9.45	1,000	8769.00	MSP430F2616TPMR
		64	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22694-1-ND‡§◆	11.83	10.65	9.45	1,000	8769.00	MSP430F2616TPNR
	8K	48	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22687-1-ND‡§◆	10.16	9.15	8.12	1,000	7534.00	MSP430F2417TPMR
		64	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22688-1-ND‡§◆	10.16	9.15	8.12	1,000	7534.00	MSP430F2417TPNR
		48	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22695-1-ND‡§◆	12.66	11.40	10.11	1,000	9386.00	MSP430F2617TPMR
		64	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22696-1-ND‡§◆	12.66	11.40	10.11	1,000	9386.00	MSP430F2617TPNR
116K	8K	48	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22689-1-ND‡§◆	10.66	9.60	8.52	1,000	7904.00	MSP430F2418TPMR
		64	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22690-1-ND‡§◆	10.66	9.60	8.52	1,000	7904.00	MSP430F2418TPNR
		48	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22697-1-ND‡§◆	13.16	11.85	10.51	1,000	9757.00	MSP430F2618TPMR
		64	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22698-1-ND‡§◆	13.16	11.85	10.51	1,000	9757.00	MSP430F2618TPNR
120K	4K	48	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22691-1-ND‡§◆	10.16	9.15	8.12	1,000	7534.00	MSP430F2419TPMR
		64	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22692-1-ND‡§◆	10.16	9.15	8.12	1,000	7534.00	MSP430F2419TPNR
		48	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	64-LQFP	296-22699-1-ND‡§◆	12.66	11.40	10.11	1,000	9386.00	MSP430F2619TPMR
		64	—	—	2	12-Bit	2	DC-16MHz	1.8 ~ 3.6	80-LQFP	296-22700-1-ND‡§◆	12.66	11.40	10.11	1,000	9386.00	MSP430F2619TPNR

◆ ***RoHS Compliant***   * For Tape and Reel part number, change 1-ND to 2-ND.   ** Sigma Delta   ‡ Cut Tape   § Operating Temperature: -40°C ~ 105°C

Digital Signal Processors

TMS320C6000™ DSP Platform — Combining high-performance hardware with considerable development resources, TI's C6000™ DSP platform provides cost efficiency and low power dissipation. Raising the bar in performance, the C6000 DSP platform offers the industry's fastest DSPs running at clock speeds up to 720 MHz and scalable to 1 GHz. The platform, which features a wide range of fully code-compatible devices, consists of the TMS320C64x™, TMS320DM64x™ and TMS320C62x™ DSP fixed-point generations as well as the TMS320C67x™ DSP floating-point generation. Optimal for designers working on targeted broadband infrastructure, performance audio and imaging applications.

TMS320C6000™ Family

RAM (Bytes) L1 Program Cache/ L1 Data Cache/ L2 Unified RAM/Cache	McBSP††	Enhanced DMA (Channels)	COM	Timers	Operating Voltage (V)		MIPS	Frequency (MHz)	Total Internal Power (W) (Full Device Power)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
					Core	I/O						1	25	100	
TMS320C64x (Fixed Point)															
16K / 16K / 1M	3+UTOPIA	64	PCI / HPI 32/16	3	1.2	3.3	4000	500	0.64	532-BGA	296-14386-ND◆	143.06	133.52	123.99	TMS32C6416DGLZ5E0
			PCI / HPI 32/16	3	1.4	3.3	4800	600	1.06	532-BGA	296-14385-ND◆	156.08	145.67	135.27	TMS32C6415DGLZ6E3
	2+UTOPIA	64	PCI / HPI 32/16	3	1.2	3.3	5760	720	1.70	532-BGA	296-17756-ND	153.00	142.80	132.60	TMS320C6415TGLZ7
	3	64	HPI 32/16	3	1.4	3.3	4800*	600	1.06	532-BGA	296-14383-ND◆	148.26	138.38	128.50	TMS32C6414DGLZ6E3
			HPI 32/16	3	1.2	3.3	4000*	500	0.64	532-BGA	296-14382-ND◆	123.56	115.32	107.09	TMS32C6414DGLZ5E0
			HPI 32/16	3	1.2	3.3	5760	720	1.70	532-BGA	296-17757-ND	145.43	135.73	126.04	TMS320C6414TGLZ7
16K / 16K / 256K	2	64	PCI / HPI 32/16	3	1.2	3.3	2400*	300	0.64	532-BGA	296-15114-ND◆	59.64	55.67	51.69	TMS320C6411GLZ
			HPI 32/16	3	1.2	3.3	4000	500	1.00	288-BGA	296-17479-ND	36.60	34.16	31.72	TMS320C6413GTS500
			PCI / HPI / EMAC	3	1.4	3.3	4800	600	1.50	548-BGA	296-18663-ND◆	72.38	67.55	62.73	TMS320C6412ZDK600
			HPI 32/16	3	1.2	3.3	4000	500	1.00	288-BGA	296-18664-ND◆	36.60	34.16	31.72	TMS320C6413ZTS500
16K / 16K / 512K	2	64	HPI 32/16	3	1.4	3.3	4800	600	1.50	288-BGA	296-17480-ND	68.25	63.70	59.15	TMS320C6418GTS600
			HPI 32/16	3	1.4	3.3	4800	600	1.70	288-BGA	296-19388-ND◆	68.25	63.70	59.15	TMS320C6418ZTS600
16K / 16K / 1024K	3	64	HPI 32/16	3	1.2	3.3	5760	720	1.36	532-BGA	296-19386-ND◆	145.43	135.73	126.04	TMS320C6414TZLZ7
			HPI 32/16	3	1.2	3.3	5760	720	1.70	532-BGA	296-17487-ND	192.75	179.90	167.05	TMS32C6414EGLZ7E3
			HPI 32/16	3	1.2	3.3	5760	720	1.70	532-BGA	296-17488-ND	202.95	189.42	175.89	TMS32C6415EGLZ7E3
			HPI 32/16	3	1.2	3.3	5760	720	1.70	532-BGA	296-17489-ND	223.13	208.25	193.38	TMS32C6416EGLZ7E3
	2	64	PCI / HPI 32/16	3	1.2	3.3	5760	720	1.36	532-BGA	296-19387-ND◆	153.00	142.80	132.60	TMS320C6415TZLZ7
32K / 80K / 64K	—	64	HPI 16	3	1.2	3.3	4104	513	—	361-BGA	296-21972-ND◆	42.30	39.48	36.66	TMS320DM6441ZWT
	3		HPI 16	3	1.2	3.3	4752	594	1.12	361-BGA	296-21260-ND◆	48.23	45.01	41.80	TMS320DM6443ZWT
64K / 56K / 128K	—	64	PCI USB	3	1.2	3.3	4752	594	1.12	529-FCBGA	296-23156-ND ***NEW!***	133.65	124.74	115.83	TMX320DM6467ZUT

◆ ***RoHS Compliant***   * Includes on-chip Turbo (TCP) and Viterbi (VCP) co-processors   †† Multi-Channel Buffered Serial Port   ◊ Enhanced DMA
† Format represents cache memory architecture: [program cache] / [data cache] / [unified cache]

(Continued)

TMS320C6000™ Family *(Cont.)*

RAM (Bytes) L1 Program Cache/ L1 Data Cache/ L2 Unified RAM/Cache	McBSP††	Enhanced DMA (Channels)	COM	Timers	Operating Voltage (V) Core	I/O	MIPS	Frequency (MHz)	Total Internal Power (W) (Full Device Power)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
NEW! TMS320DM355 NEW!															
16K / 8K / 32K	—	64	—	4	1.3	3.3	—	216	—	337-BGA	296-23301-ND	21.38	19.95	18.53	TMS320DM355ZCE216
								270			296-23302-ND	25.28	23.59	21.91	TMS320DM355ZCE270

RAM (Bytes) Program	Data	McBSP††	DMA (Channels)	COM	Timers	Operating Voltage Core	I/O	MIPS	Frequency (MHz)	Total Internal Power (W) (Full Device Power)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C62x (Fixed Point)																
4K / 4K / 64K†		2	16◊	HPI / 16	2	1.8	3.3	1336	167	1.0	256-BGA	296-12560-ND◆	42.30	39.48	36.66	TMS320C6211BGFN167
								1200	150	0.9	256-BGA	296-10747-ND◆	33.81	31.56	29.31	TMS320C6211GFN150
								1200	150	0.9	256-BGA	296-12559-ND◆	33.83	31.57	29.32	TMS320C6211BGFN150
64K	64K	2	4	HPI / 16	2	1.8	3.3	1600	200	1.3	352-BGA	296-10744-ND◆	129.90	121.24	112.58	TMS320C6201GJL200
								1600	200	1.3	384-BGA	296-10743-ND◆	129.90	121.24	112.58	TMS320C6201GJC200
				Exp. Bus / 32	2	1.5	3.3	1600	200	0.8	288-BGA	296-13381-5-ND◆	32.93	30.73	28.54	TMS320C6204GLW200
								1600	200	0.8	288-BGA	296-12672-ND◆	16.16	14.55	12.91	TMS320C6204GHK200
				PCI / 32	2	1.5	3.3	1600	200	0.8	288-BGA	296-12673-ND	15.68	14.63	13.59	TMS320C6205GHK200
								1600	200	0.8	288-BGA	296-19385-ND◆	15.68	14.63	13.59	TMS320C6205ZHK200
256K	128K	3	4	Exp. Bus / 32	2	1.5	3.3	2400	300	1.0	384-BGA	296-14380-ND◆	105.53	98.49	91.46	TMS320C6202BGNY300
								2400	300	1.0	352-BGA	296-14381-ND◆	105.53	98.49	91.46	TMS320C6202BGNZ300
								2000	250	0.9	384-BGA	296-15122-5-ND◆	87.90	82.04	76.18	TMS320C6202BGNY250
								2000	250	0.9	352-BGA	296-15123-5-ND◆	87.90	82.04	76.18	TMS320C6202BGNZ250
						1.8	3.3	2000	250	2.1	352-BGA	296-10745-ND◆	172.80	161.28	149.76	TMS320C6202GJL250
								2000	250	2.1	384-BGA	296-10746-ND◆	172.80	161.28	149.76	TMS320C6202GLS250
384K	512K	3	4	Exp. Bus / 32	2	1.5	3.3	2400	300	1.3	384-BGA	296-13801-ND◆	112.05	104.58	97.11	TMS320C6203BGNY300
								2400	300	1.3	352-BGA	296-14756-5-ND◆	112.05	104.58	97.11	TMS320C6203BGNZ300
								2000	250	1.1	384-BGA	296-13800-ND◆	94.95	88.62	82.29	TMS320C6203BGNY173
								2000	250	1.1	352-BGA	296-15124-5-ND◆	94.95	88.62	82.29	TMS320C6203BGNZ173

RAM (Bytes) Program Data	McBSP††	DMA (Channels)	COM	Timers	Operating Voltage Core	I/O	MFLOPS	Frequency (MHz)	Total Internal Power (W) (Full Device Power)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C67x (Floating Point)															
4K / 4K / 64K†	2	16◊	HPI / 16	2	1.4	3.3	1500	250	0.9	272-BGA	296-17464-ND	25.05	23.38	21.71	TMS320C6711DGDP250
4K / 4K / 64K	2	16◊	HPI / 16	2	1.2	3.3	1200	200	0.9	272-BGA	296-19389-ND◆	23.18	21.63	20.09	TMS320C6711DZDP200
4K / 4K / 64K	2	16◊	—	2	1.2	3.3	900	150	0.7	272-BGA	296-19390-ND◆	19.58	18.27	16.97	TMS320C6712DZDP150
4K / 4K / 256K	2	16◊	HPI / 16	2	1.4	3.3	1800	300	1.6	272-BGA	296-19391-ND◆	47.25	44.10	40.95	TMS320C6713BZDP300
4K / 64K / 192K†	2	16◊	HPI / 16	2	1.4	3.3	1800	300	—	272-BGA	296-17377-ND	47.25	44.10	40.95	TMS320C6713BGDP300
4K / 64K / 192K†	2	16◊	HPI / 16	2	1.2	3.3	1200	200	1.0	208-HLQFP	296-17378-ND◆	27.23	25.41	23.60	TMS320C6713BPYP200
4K / 64K / 192K†	2	16◊	HPI / 16	2	1.2	3.3	1000	225	1.0	272-BGA	296-18277-ND◆	35.70	33.32	30.94	TMS320C6713BZDP225
32K / 64K / 384K	—	DMAX	—	1	1.2	3.3	1200	200	0.8	144-TQFP	296-21721-ND◆	10.83	9.75	8.65	TMS320C6720BRFP200
32K / 256K / 384K	2	DMAX	UHPI	1	1.2	3.3	2100	225	1.0	144-TQFP	296-21424-ND◆	16.73	15.61	14.50	TMSDC6722BRFPA225
32K / 32K / 512K†	2	16◊	HPI / 16	2	1.2	3.3	1200	200	0.8	272-BGA	296-17149-ND	23.18	21.63	20.09	TMS320C6711DGDP200

◆ ***RoHS Compliant*** * Includes on-chip Turbo (TCP) and Viterbi (VCP) co-processors †† Multi-Channel Buffered Serial Port ◊ Enhanced DMA

† Format represents cache memory architecture: [program cache] / [data cache] / [unified cache]

TMS320C5000™ Family

TMS320C5000™ DSP Platform

The C5000™ DSP platform offers a broad portfolio, including the OMAP5910 processor, which integrates a TMS320C55x™ DSP core with a TI-enhanced ARM® on a single chip. With the industry's most power-efficient performance, peripheral options and small packaging, this platform provides designers a lead in today's portable Internet and wireless communication markets. Optimal for designers of power-sensitive systems, the C5000 DSP platform offers power consumption as low as 0.33 mA/MHz and performance up to 600 MIPS.

RAM (Bytes)	ROM (Bytes)	USB	ADC	I2C	RTC	McBSP††	MMC/SD	Timers	MIPS	Operating Voltage (V) Core	I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C55x (Fixed Point)																		
32K	32K	—	—	Y	—	2	—	3	600	1.26	3.3	300	201-BGA	296-17379-ND	9.00	7.20	6.08	TMS320VC5501GZZ300
									600			300	176-LQFP	296-17380-ND◆	9.00	7.20	6.08	TMS320VC5501PGF300
64K	32K	—	—	Y	—	3	—	3	400	1.26	3.3	200	201-BGA	296-17381-ND	10.75	9.68	8.58	TMS320VC5502GZZ200
									600			200	201-BGA	296-17405-ND	13.91	12.53	11.11	TMS320VC5502GZZ300
									600			300	176-LQFP	296-17382-ND◆	13.91	12.53	11.11	TMS320VC5502PGF300
	64K	—	—	Y	Y	3	—	2	400	1.6	2.7	200	179-BGA	296-17383-ND	11.25	10.13	8.98	TMS320VC5503GHH
									400			200	144-LQFP	296-17384-ND	11.25	10.13	8.98	TMS320VC5503PGE
		Y	Y	Y	Y	3	Y	2	400	1.6	2.7	200	144-LQFP	296-17287-ND◆	16.16	14.55	12.91	TMS320VC5507PGE
									400			200	179-BGA	296-17286-ND	16.16	14.55	12.91	TMS320VC5507GHH
128K	64K	Y	—	Y	Y	3	—	2	400	1.2	3.3	200	144-LQFP	296-21422-ND◆	10.83	9.75	8.65	TMS320VC5506PGE
									400			200	179-BGA	296-21423-ND◆	10.83	9.75	8.65	TMS320VC5506ZHH
256K	64K	Y	Y	Y	Y	3	Y	2	288	1.6	3.3	200	179-BGA	296-16701-ND	22.28	20.79	19.31	TMS320VC5509AGHH
									288			200	144-LQFP	296-17351-ND◆	22.28	20.79	19.31	TMS320VC5509APGE
320K	32K	—	—	—	—	3	—	2	400	1.6	3.3	200	240-BGA	296-14199-5-ND	26.10	24.36	22.62	TMS320VC5510AGGW2

RAM (Bytes)	ROM (Bytes)	McBSP††	Timers	MIPS	Operating Voltage (V) Core	I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C54x (Fixed Point)													
6K	48K	2	1	50	3.3	3.3	50	128-LQFP	296-2014-5-ND	23.42	21.86	20.30	TMS320LC545APBK-50
10K	56K	2	1	66	3.3	3.3	66	100-LQFP	296-1930-5-ND◆	16.23	15.15	14.07	TMS320LC541BPZ-66
16K	8K	2	2	50	1.8	3.3	50	144-LQFP	296-12148-5-ND	6.80	5.44	4.59	TMS320VC5401PGE50
				50	1.8	3.3	50	144-BGA	296-12147-5-ND	6.80	5.44	4.59	TMS320VC5401GGU50
				50	1.8	3.3	50	144-BGA	296-19392-ND◆	6.80	5.44	4.59	TMS320VC5401ZGU50
32K	8K	2	2	80	1.8	1.8-3.6	80	144-BGA	296-10759-ND◆	8.91	8.03	7.12	TMS320UC5402GGU-80
				100	1.8	3.3	100	144-BGA	296-10761-ND◆	8.91	8.03	7.12	TMS320VC5402GGU100
				80	1.8	1.8-3.6	80	144-LQFP	296-10760-ND◆	8.91	8.03	7.12	TMS320UC5402PGE-80
				100	1.8	3.3	100	144-LQFP	296-10762-ND◆	8.91	8.03	7.12	TMS320VC5402PGE100
	32K	3	1	160	1.6	3.3	160	144-BGA	296-12676-ND	15.98	14.91	13.85	TMS320VC5402AGGU16
				160	1.6	3.3	160	144-LQFP	296-12677-ND◆	15.98	14.91	13.85	TMS320VC5402APGE16
				160	1.6	3.3	160	144-BGA	296-19393-ND◆	15.98	14.91	13.85	TMS320VC5402AZGU16

◆ ***RoHS Compliant*** †† Multi-Channel Buffered Serial Port ◊ 1TDM port

(Continued)

TMS320C5000™ Family *(Cont.)*

RAM (Bytes)	ROM (Bytes)	McBSP††	Timers	MIPS	Operating Voltage (V) Core	I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
32K	128K	3	2	120	1.5	3.3	120	144-BGA	296-17150-ND	12.99	11.70	10.38	TMS320VC5404GGU
				120	1.5	3.3	120	144-LQFP	296-15712-ND◆	12.99	11.70	10.38	TMS320VC5404PGE
64K	32K	3	1	120	1.5	3.3	120	144-BGA	296-12073-ND◆	18.08	16.87	15.67	TMS320VC5409AGGU12
				160	1.6	3.3	160	144-BGA	296-12074-ND	20.10	18.76	17.42	TMS320VC5409AGGU16
				120	1.5	3.3	120	144-LQFP	296-12075-ND◆	18.08	16.87	15.67	TMS320VC5409APGE12
				160	1.6	3.3	160	144-LQFP	296-12076-ND◆	20.10	18.76	17.42	TMS320VC5409APGE16
				80	1.8	1.8-3.6	100	144-BGA	296-12112-ND◆	22.65	21.14	19.63	TMS320UC5409GGU-80
				100	1.8	3.3	100	144-BGA	296-10763-ND◆	15.38	14.35	13.33	TMS320VC5409GGU100
				100	1.8	3.3	100	144-LQFP	296-10764-ND◆	15.38	14.35	13.33	TMS320VC5409PGE100
				80	1.8	1.8-3.6	100	144-LQFP	296-12146-5-ND◆	22.65	21.14	19.63	TMS320UC5409PGE-80
		3◊	1	80	2.5	3.3	80	144-BGA	296-1933-5-ND	40.80	38.08	35.36	TMS320VC549GGU-80
				100	2.5	3.3	100	144-BGA	296-2016-5-ND	44.93	41.93	38.94	TMS320VC549GGU-100
				80	2.5	3.3	80	144-LQFP	296-1935-5-ND◆	40.80	38.08	35.36	TMS320VC549PGE-80
80K	256K	2	2	120	1.5	3.3	120	144-BGA	296-15637-ND◆	13.83	12.45	11.04	TMS320C54CSTGGU
				118	1.5	3.3	118	144-BGA	296-15033-ND◆	15.30	14.28	13.26	TMS320C54V90AGGU
				118	1.5	3.3	118	144-LQFP	296-15034-ND◆	15.30	14.28	13.26	TMS320C54V90APGE
				118	1.5	3.3	118	144-BGA	296-16933-ND◆	15.30	14.28	13.26	TMS320C54V90BGGU
				118	1.5	3.3	118	144-LQFP	296-16934-ND◆	15.30	14.28	13.26	TMS320C54V90BPGE
				120	1.5	3.3	120	144-BGA	296-19384-ND◆	13.83	12.45	11.04	TMS320C54CSTZGU
128K	32K	3	1	120	1.5	3.3	120	144-BGA	296-12077-ND◆	21.75	20.30	18.85	TMS320VC5410AGGU12
				160	1.6	3.3	160	144-BGA	296-12078-ND	24.15	22.54	20.93	TMS320VC5410AGGU16
				120	1.5	3.3	120	144-LQFP	296-12079-ND◆	21.75	20.30	18.85	TMS320VC5410APGE12
				160	1.6	3.3	160	144-LQFP	296-12080-ND◆	24.15	22.54	20.93	TMS320VC5410APGE16
256K	32K	3	1	120	1.5	3.3	120	144-BGA	296-12168-ND◆	36.30	33.88	31.46	TMS320VC5416GGU120
				160	1.6	3.3	160	144-BGA	296-11660-ND	40.35	37.66	34.97	TMS320VC5416GGU160
				120	1.5	3.3	120	144-LQFP	296-12169-ND◆	36.30	33.88	31.46	TMS320VC5416PGE120
				160	1.6	3.3	160	144-LQFP	296-12170-ND◆	40.35	37.66	34.97	TMS320VC5416PGE160
384K	—	6	2	200	1.8	3.3	100	144-BGA	296-10767-ND◆	88.88	82.95	77.03	TMS320VC5420GGU200
				200	1.8	3.3	100	144-LQFP	296-12191-ND◆	88.88	82.95	77.03	TMS320VC5420PGE200
512K	8K	6	2	200	1.8	3.3	100	144-BGA	296-10768-ND◆	91.05	84.98	78.91	TMS320VC5421GGU200
				200	1.8	3.3	100	144-LQFP	296-10769-ND◆	91.05	84.98	78.91	TMS320VC5421PGE200
1280K	—	12	4	532	1.6	3.3	133	169-BGA	296-15127-5-ND◆	159.75	149.10	138.45	TMS320VC5441GGU

◆ ***RoHS Compliant*** †† Multi-Channel Buffered Serial Port ◊ 1TDM port

TMS320C54x Family — ARM7 + C54x

CPU	RAM (Bytes)	Serial Ports	Timers	Misc.	Ethernet	Operating Volt. (V) Core	I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
						DSP + RISC (Fixed Point)								
C54x ARM7TDMI	144K 16K	2 McBSP I2C, SPI, 2 UARTs (1 IRDA)	1 2	PLL, API PLL, WD	— —	1.8	3.3	100 47.5	257-BGA	296-12751-ND	18.75	17.50	16.25	TMS320VC5470GHK
C54x ARM7TDMI	144K 16K	2 McBSP I2C, SPI, 2 UARTs (1 IRDA)	1 2	PLL, API PLL, WD	— 10/100, MAC	1.8	3.3	100 47.5	257-BGA	296-12752-ND	20.40	19.04	17.68	TMS320VC5471GHK

OMAP — ARM9 + C55x

OMAP Processors integrating the command and control functionality of ARM, coupled with low-power, real-time signal processing capabilities of a DSP.

The OMAP59xx platform is ideal for portable data terminal applications such as portable medical devices (portable defibrillation, home medical test and analysis) asset and inventory management, (parcel tracking and location, stock inventory and replenishment, real-time data capture with analysis and interpretation) and point of sale (sales and membership processing, merchandising and pricing management verification and authentication) It enables embedded developers to program using familiar development environments by supporting leading operating systems such as Microsoft® Windows® CE.NET, Linux®, and TI's DSP/BIOS real-time scalable kernel. This open development environment makes it possible for designers to deliver innovative products to the market faster, utilizing familiar tools, a standard application programming interface (API) and a seamless interface to the DSP through an optimized interprocessor communication mechanism. The built-in interprocessor communication mechanism eliminates the need for developers to program the RISC and DSP independently resulting in reduced programming efforts.

CPU	RAM (Bytes)	ROM (Bytes)	Serial Ports	Timers	Miscellaneous	Operating Volt. (V) Core	I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
						Fixed Point								
C55x ARM9DTMI	160K 192K†	32K —	2 McBSP, 2 MCSI 1 McBSP, USB 1.1, I2C, µwire, IRDA, 3 UARTS	3 GP, 1 WDT 3 GP, 1 WDT, 1 OS	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	150	289-BGA	296-16744-ND	37.58	35.07	32.57	OMAP5910JGZG2
C55x ARM9DTMI	160K 192K†	32K —	2 McBSP, 2 MCSI 1 McBSP, USB 1.1, I2C, µwire, IRDA, 3 UARTS	3 GP, 1 WDT 3 GP, 1 WDT, 1 OS	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	150	289-BGA	296-17462-ND	39.00	36.40	33.80	OMAP5910JGDY2
C55x ARM9DTMI	160K 192K†	32K —	2 McBSP, 2 MCSI 1 McBSP, USB 1.1, I2C, µwire, IRDA, 3 UARTS	3 GP, 1 WDT 3 GP, 1 WDT, 1 OS	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	150	289-BGA	296-18502-ND◆	37.58	35.07	32.57	OMAP5910JZZG2
C55x ARM9DTMI	160K 250K†	32K —	2 McBSP, 2 MCSI 1 McBSP, USB 1.1, I2C, µwire, IRDA, 3 UARTS	14 32-Bit GP, 2 16-Bit WD, 1 32-kHz OS, 1RTC	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	192	289-BGA	296-20671-ND	37.28	34.79	32.31	OMAP5912ZZG
C55x ARM926EJ-S	160K 256K†	32K —	2 McBSP, 2 MCSI, 3 UARTs, USB 1.1, USB OTG, 1McBSP, µwire, 1^{2}C, HDQ, SPI, V-Link	4 GP, 1 WDT 3 GP, 1 WDT, 1 OS	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	192	289-BGA	296-20940-ND◆	37.28	34.79	32.31	OMAP5912ZDY

◆ ***RoHS Compliant*** † Shared with C55x CPU * External memory interfaces may use 1.8, 2.75, or 3.3V nominal

NEW! OMAP — EVM

Featuring the OMAP35x high-performance Superscalar ARM® Cortex™-A8 with NEON co-processing this EVM kit will allow developers to evaluate and jumpstart development. Equipped with daughter card expansion connections, the OMAP35x EVM can be used to prototype complete systems and is upgradeable to support future OMAP35x processors. **Includes: Hardware:** • OMAP35x-based Target Board Processor • 128 MB LPDDR/128 MB oneNAND Flash or similar capacity and function • Touch screen LCD display with stylus • Landscape/Portrait modes • International Power supply with EURO and US power cords • Serial and USB cables

CPU	RAM (Bytes)	ROM (Bytes)	Serial Ports	Timers	Operating Volt. (V) Core	I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
					Fixed Point								
600 MHz ARM Cortex A8	64K	112K	5MCBSP, 3I^{2}C 4MCSPI, 1HS	12GP 2WDT US OTG	1.35 —	1.81 3.3	600 600	515-FCBGA	296-23154-ND 296-23175-ND	1495.09 75.08	— 70.07	— 65.07	TMDXEVM3503 XOMAP3530BCBB

(Continued)

TMS320C3x Family

RAM (32-Bit Word)	ROM (32-Bit Word)	DMA	Timers	MIPS	Operating Voltage (V)	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C3x (Floating Point)													
512	Supports Bootloader	2	2	20	5	40	0~85	144-PQFP	296-1928-5-ND	15.38	14.35	13.33	TMS320C32PCM40

TMS320C2000™ Family

The C2000™ DSP platform offers the most comprehensive line of DSP solutions driving the digital control revolution, the C2000 DSP platform provides the industry's highest performing and most code-efficient DSPs. With a unique combination of on-chip peripherals such as Flash memory, ultrafast A/D converters as well as robust CAN modules, the C2000 DSP platform sets the standard for performance and peripheral integration.

Flash (16-Bit Word)	RAM (16-Bit Word)	ROM (16-Bit Word)	Timers	Serial	MIPS	Operating Voltage (V) Core	I/O	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C20x (Fixed Point)															
32K	4.5K	—	1	2	20	3.3	5	40	0 ~ 70	100-LQFP	296-2007-5-ND◆	25.74	24.03	22.31	TMS320F206PZ
—	4.5K	32K	1	2	40	3.3	5	80	0 ~ 70	100-TQFP	296-2001-5-ND◆	16.83	15.71	14.59	TMS320C206PZ80
						3.3	5	80	-40 ~ 85	100-TQFP	296-2002-5-ND◆	18.54	17.31	16.07	TMS320C206PZA80
						3.3	3.3	80	0 ~ 70	100-LQFP	296-2012-5-ND	18.54	17.31	16.07	TMS320LC206PZ80
						3.3	3.3	80	-40 ~ 85	100-LQFP	296-2013-5-ND	20.40	19.04	17.68	TMS320LC206PZA80

Flash (16-Bit Word)	RAM (16-Bit Word)	Boot ROM (16-Bit Word)	EMIF	Timers	PWM Chan.	SPI	SCI	CAN	MIPS	Operating Voltage (V)	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C24x (Fixed Point)																		
8K	544	—	—	2	8	Y	Y	Y	20	5	20	0 ~ 70	144-LQFP	296-10755-ND◆	18.48	17.25	16.02	TMS320F243PGE
					8			Y				0 ~ 70	64-QFP	296-10753-ND◆	16.37	15.28	14.19	TMS320F241PG
					8			—				0 ~ 70	38-PLCC	296-10750-5-ND◆	17.69	16.51	15.33	TMS320F241FN
	1K	256	—	2	8	—	Y	—	40	3.3	40	-40 ~ 125	64-PQFP	296-12545-ND◆	12.99	11.70	10.38	TMS320LF2402APGS
					8			—				-40 ~ 85	64-LQFP	296-12544-ND◆	11.83	10.65	9.45	TMS320LF2402APGA
					7			—				-40 ~ 85	32-LQFP	296-14411-ND◆	6.30	5.60	4.73	TMS320LF2401AVFA
					7			—				-40 ~ 125	32-LQFP	296-19288-1-ND◆∆	7.70	6.16	5.20	TMS320LF2401AVFS
					7			—				-40 ~ 125	32-LQFP	296-19288-2-ND◆◊		1251.25/250		TMS320LF2401AVFS
16K	1K	256	—	2	8	Y	Y	Y	40	3.3	40	-40 ~ 125	64-LQFP	296-12675-ND◆	15.08	13.58	12.04	TMS320LF2403APAGS
					8			Y				-40 ~ 85	64-LQFP	296-12674-ND◆	13.74	12.38	10.98	TMS320LF2403APAGA
32K	2.5K	256	Y	4	16	Y	Y	Y	40	3.3	40	-40 ~ 125	144-LQFP	296-12549-ND◆	16.24	14.63	12.97	TMS320LF2407APGES
					16			Y				-40 ~ 85	144-LQFP	296-12548-ND◆	14.74	13.28	11.78	TMS320LF2407APGEA
			—	4	16	Y	Y	Y	40	3.3	40	-40 ~ 125	100-LQFP	296-12547-ND	15.33	13.80	12.24	TMS320LF2406APZS
					16			Y				-40 ~ 85	100-LQFP	296-12546-ND◆	13.91	12.53	11.11	TMS320LF2406APZA

Flash (16-Bit Word)	RAM (16-Bit Word)	ROM (16-Bit Word)	Boot ROM (16-Bit Word)	McBSP	EMIF	Timers	PWM Chan.	SPI	SCI	CAN	MIPS	Operating Voltage (V) Core	I/O	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C28x Family (Fixed Point)																					
16K	6K	1K	4K	—	—	9	8	Y	Y	—	60	1.8	3.3	60	-40 ~ 85	100-LQFP	296-21874-ND◆	6.50	5.20	4.39	TMS320F28015PZA
							8	Y	Y	Y					-40 ~ 85	100-LQFP	296-21875-ND◆	7.00	5.60	4.73	TMS320F28016PZA
							8	2	Y	Y					-40 ~ 85	100-LQFP	296-21876-ND◆	7.90	6.32	5.34	TMS320F2801PZA-60
		2K	4K	—	—	9	8	Y	1	Y	100	1.8	3.3	100	-40 ~ 85	100-BGA	296-18320-ND◆	9.66	8.70	7.72	TMS320F2801GGMA
															-40 ~ 125	100-BGA	296-18321-ND◆	10.66	9.60	8.52	TMS320F2801GGMS
															-40 ~ 85	100-LQFP	296-18322-ND◆	9.66	8.70	7.72	TMS320F2801PZA
															-40 ~ 125	100-LQFP	296-18323-ND◆	10.66	9.60	8.52	TMS320F2801PZS
															-40 ~ 85	100-BGA	296-18324-ND◆	9.66	8.70	7.72	TMS320F2801ZGMA
															-40 ~ 125	100-BGA	296-18325-ND◆	10.66	9.60	8.52	TMS320F2801ZGMS
32K	6K	1K	4K	—	—	9	8	2	Y	Y	60	1.8	3.3	60	-40 ~ 85	100-LQFP	296-21719-ND◆	9.60	7.68	6.48	TMS320F2802PZA-60
	10K	2K	4K	—	—	15	16	Y	2	Y	100	1.8	3.3	100	-40 ~ 85	100-BGA	296-18326-ND◆	14.49	13.05	11.58	TMS320F2806GGMA
															-40 ~ 125	100-BGA	296-18327-ND◆	15.99	14.40	12.77	TMS320F2806GGMS
															-40 ~ 85	100-LQFP	296-18328-ND◆	14.49	13.05	11.58	TMS320F2806PZA
															-40 ~ 125	100-LQFP	296-18329-ND◆	15.99	14.40	12.77	TMS320F2806PZS
															-40 ~ 85	100-BGA	296-18330-ND◆	14.49	13.05	11.58	TMS320F2806ZGMA
															-40 ~ 125	100-BGA	296-18331-ND◆	15.99	14.40	12.77	TMS320F2806ZGMS
	12K	64K	8K	—	—	9	16	2	2	1	100	1.8	3.3	100	-40 ~ 85	100-LQFP	296-19599-ND◆	11.83	10.65	9.45	TMS320F2802PZA
															-40 ~ 125	100-LQFP	296-19600-ND◆	13.08	11.78	10.45	TMS320F2802PZS
															-40 ~ 85	100-BGA	296-19601-ND◆	11.83	10.65	9.45	TMS320F2802ZGMA
															-40 ~ 125	100-BGA	296-19602-ND◆	13.08	11.78	10.45	TMS320F2802ZGMS
64K	10K	1K	4K	—	—	19	16	Y	Y	—	100	1.8	3.3	100	-40 ~ 85	100-LQFP	296-21877-ND◆	16.58	14.93	13.24	TMS320F28044PZA
	18K	2K	4K	—	—	15	16	Y	2	Y	100	1.8	3.3	100	-40 ~ 85	100-BGA	296-18332-ND◆	17.40	16.24	15.08	TMS320F2808GGMA
															-40 ~ 125	100-BGA	296-18333-ND◆	19.13	17.85	16.58	TMS320F2808GGMS
															-40 ~ 85	100-LQFP	296-18334-ND◆	17.40	16.24	15.08	TMS320F2808PZA
															-40 ~ 125	100-LQFP	296-18335-ND◆	19.13	17.85	16.58	TMS320F2808PZS
															-40 ~ 85	100-BGA	296-18336-ND◆	17.40	16.24	15.08	TMS320F2808ZGMA
															-40 ~ 125	100-BGA	296-18337-ND◆	19.13	17.85	16.58	TMS320F2808ZGMS
64K	18K	1K	4K	Y	—	4	16	Y	2	Y	150	1.8	3.3	150	-40 ~ 85	128-LQFP	296-15987-5-ND◆	20.78	19.39	18.01	TMS320F2810PBKA
															-40 ~ 125	128-LQFP	296-17277-ND◆	26.33	24.57	22.82	TMS320F2810PBKQ
															-40 ~ 85	128-LQFP	296-15988-5-ND◆	22.13	20.65	19.18	TMS320F2811PBKA
															-40 ~ 125	128-LQFP	296-17278-ND◆	28.05	26.18	24.31	TMS320F2811PBKQ
128K	18K	1K	4K	—	—	15	16	4	2	2	100	1.8	3.3	100	-40 ~ 85	100-BGA	296-21878-ND	19.43	18.13	16.84	TMS320F2809GGMA
															-40 ~ 85	100-LQFP	296-21879-ND◆	19.43	18.13	16.84	TMS320F2809PZA
															-40 ~ 85	100-BGA	296-21880-ND◆	19.43	18.13	16.84	TMS320F2809ZGMA
		1K	4K	Y	Y	4	16	Y	2	Y	150	1.8	3.3	150	-40 ~ 85	179-BGA	296-15989-5-ND	23.48	21.91	20.35	TMS320F2812GHHA
															-40 ~ 125	179-BGA	296-17279-ND	29.85	27.86	25.87	TMS320F2812GHHQ
															-40 ~ 125	176-LQFP	296-17280-ND◆	29.85	27.86	25.87	TMS320F2812PGFQ
		2K	4K	Y	Y	7	16	Y	2	Y	150	1.9	3.3	150	-40 ~ 85	179-BGA	296-18338-ND◆	23.48	21.91	20.35	TMS320F2812ZHHA
															-40 ~ 125	179-BGA	296-18339-ND◆	25.88	24.15	22.43	TMS320F2812ZHHS
256K	32K	1K	8K	Y	—	7	1	Y	2	Y	150	1.8	3.3	150	-40 ~ 85	128-LQFP	296-18916-ND◆	15.24	13.73	12.17	TMS320R2811PBKA
															-40 ~ 125	128-LQFP	296-18917-ND◆	15.08	14.07	13.07	TMS320R2811PBKQ
															-40 ~ 85	176-LQFP	296-18918-ND◆	15.98	14.91	13.85	TMS320R2812PGFA
															-40 ~ 125	176-LQFP	296-18919-ND◆	17.55	16.38	15.21	TMS320R2812PGFQ
	36K	2K	8K	Y	Y	4	16	Y	2	Y	150	1.9	3.3	150	-40 ~ 85	176-LQFP	296-15990-5-ND◆	23.48	21.91	20.35	TMS320F2812PGFA

◆ ***RoHS Compliant*** ∆ Cut Tape ◊ Tape and Reel

RAM (Bytes)	ROM (Bytes)	McBSP††	Timers	MIPS	Operating Voltage (V) Core	I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C28x — RoHS Compliant													
256K	2K	2	3	—	1.9	3.3	150	179-BGA	296-22069-ND	29.93	27.93	25.94	TMX320F28335ZHHA
								176-LQFP	296-22073-ND	29.93	27.93	25.94	TMX320F28335PGFA

†† Multi-Channel Buffered Serial Port

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TMS470 Family

The TMS470 is derived from the 32-bit ARM7TDMI® core. This industry standard architecture includes two instruction sets a 32-bit instructions for fast execution and 16-bit instructions for high code density. It allows unlimited switching between instruction sets and also provides run time decompression. Typical applications include industrial systems, medical instrumentation, consumer electronics, data processing and many other general purpose embedded applications.

Flash (KB)	RAM (KB)	Timer Channels	ADC	SPI	SCI	CAN2	I/O 3.3V	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
									TMS470R1x					
64	8	13	8 Ch, 10-Bit	2	2	SCC	40	48	80-LQFP	296-19270-ND◆	8.70	6.96	5.88	TMS470R1A64PNT
128	8	16	16 Ch, 10-Bit	2	2	SCC	50	48	100-LQFP	296-19267-ND◆	9.50	7.60	6.42	TMS470R1A128PZ-T
256	12	16	16 Ch, 10-Bit	2	2	SCC	50	48	100-LQFP	296-17754-ND◆	9.76	8.79	7.80	TMS470R1A256PZ
		16					50		100-LQFP	296-19268-ND◆	9.50	8.55	7.59	TMS470R1A256PZ-T
288	16	16	12 Ch, 10-Bit	2	2	SCC	93	48	144-LQFP	296-18723-ND	11.08	9.98	8.85	TMS470R1A288PGEA
		12					57		100-LQFP	296-19269-ND	12.74	11.48	10.18	TMS470R1A288PZA
		12					93		144-LQFP	296-21881-ND◆	11.08	9.98	8.85	TMS470R1A288PGET
		12					57		100-LQFP	296-21882-ND◆	10.58	9.53	8.45	TMS470R1A288PZ-T
384	32	16	12 Ch, 10-Bit	2	2	SCC	94	48	144-LQFP	296-18724-ND◆	12.66	11.40	10.11	TMS470R1A384PGET
		12					55		100-LQFP	296-19292-ND	12.16	10.95	9.71	TMS470R1A384PZ-T
512	32	32	16 Ch, 10-Bit	3	2	HECC	86	60	144-LQFP	296-19855-ND	14.74	13.28	11.78	TMS470R1B512PGET
768	48	32	16 Ch, 10-Bit	5	2	HECC	87	60	144-LQFP	296-19271-ND	19.43	18.13	16.84	TMS470R1B768PGE
		32					87		144-LQFP	296-19335-ND◆	17.55	16.38	15.21	TMS470R1B768PGET
1000	64	16	12 Ch, 10-Bit	2	3	HECC	93	60	144-LQFP	296-18591-ND◆	20.33	18.97	17.62	TMS470R1B1MPGEA

◆ ***RoHS Compliant***

DSP Starter Kits

A wide variety of DSP boards and development kits are available from TI and TI's third party network. Products include development boards, evaluation modules, hardware/software bundles and DSP Starter Kits (DSKs) designed to accelerate the application design process from concept through production. DSP Starter Kits are bundled with a DSK-version of TI's Code Composer Studio Development Tools. These provide an excellent platform to evaluate TI DSP and development tools, quickly develop prototypes, demos and proof-of-concept applications at a very affordable getting started price.

Kit Contents:

- Development Board
- Parallel PC Cable
- US Power Supply
- CD-ROM containing documentation and DSK version of Code Composer Studio (TMDSEZD2407: EzDSP version of Code Composer Studio)

Digi-Key Part No.	Price Each	Texas Instruments Part No.
296-15828-ND	358.25	TMDSEZD2407
296-23002-ND ***NEW!***	495.02	TMDSEZS2812
296-23003-ND ***NEW!***	407.00	TMDS-FET470R1B1M
296-15827-ND	410.17	TMDSDSK5510
296-15829-ND	410.17	TMDSDSK5416
296-15831-ND	410.17	TMDSDSK6713
296-23033-ND ***NEW!***	410.17	TMDSDSK6713-0E
296-23034-ND ***NEW!***	514.01	TMDXEZ28335
296-23035-ND ***NEW!***	2495.16	TMDSEVM6446
296-23036-ND ***NEW!***	617.85	TMDSDSK6455
296-23037-ND ***NEW!***	514.01	TMDXEVM355

Digi-Key Part No.	Price Each	Texas Instruments Part No.
296-23049-ND ***NEW!***	623.04	TMDSSUBALL
296-23038-ND ***NEW!***	514.01	TMDSDSK6416-TE
296-23039-ND ***NEW!***	2495.16	TMDSEVM6446-0E
296-23040-ND ***NEW!***	514.01	TMDXEVM6424
296-23041-ND ***NEW!***	410.17	TMDSEZD2812-0E
296-23043-ND ***NEW!***	2999.19	TMDSEMU560U
296-23044-ND ***NEW!***	6995.35	TMDSDVSPBA9-L
296-23045-ND ***NEW!***	514.01	TMDXEZ28044
296-23046-ND ***NEW!***	3595.23	TMDSCCSALL-1
296-23047-ND ***NEW!***	514.01	TMDSEZS2808
296-23048-ND ***NEW!***	1495.10	TMDSEMUUSB

Digi-Key Part No.	Price Each	Texas Instruments Part No.
296-23050-ND ***NEW!***	514.01	TMDSDSK5509
296-23051-ND ***NEW!***	101.24	TMDSADP1460
296-23053-ND ***NEW!***	306.33	TMDSOSK5912
296-23054-ND ***NEW!***	155.76	TMDSDSK33
296-23055-ND ***NEW!***	410.17	TMDSEZD2812
296-23056-ND ***NEW!***	514.01	TMDSSUB2000
296-23057-ND ***NEW!***	154.72	TMDSADP1420
296-23058-ND ***NEW!***	1995.13	TMDSEVM642
296-23059-ND ***NEW!***	414.32	TMDSSDSFBPK
296-23121-ND ***NEW!***	1995.10	TMDXEVM6467
296-23122-ND ***NEW!***	1295.06	TMDXDVP648

eXpressDSP™ Code Composer Studio™

CCStudio's comprehensive, integrated development environment brings complete build and debug tooling, world-class compilers and industry unique analysis and visualization capabilities via JTAG Real-Time Data Exchange (RTDX) to quickly find and fix problems. The real-time foundation provided by TI's DSP/BIOS™ kernel, RTDX™ and TI's simulation capabilities, offers key features such as real-time analysis and advanced data and system visualization, which results in the highest level of host/target integration in the DSP industry. In addition, CCStudio is engineered around an open plug-in architecture that enables developers to integrate additional third-party plug-in tools to customize their development environment for specific project requirements.

Includes: • C/C++ compiler, assembler and linker (code generation tools) with C++, UML, MATLAB and VAB support in compiler **CCStudio Key Features:** • Integrated development environment with tightly integrated editor, debugger, visual project management system, profiler and Probe Points™ • Advanced watch windows, local and global variable windows and profiler capabilities • Update Advisor - live update capability for the latest tools, drivers and software releases • Real-Time Data Exchange (RTDX) between host and target • Real-time analysis and data visualization tools • File I/O Probe Points and graphical algorithm scope probes • Interactive profiling and advanced graphical signal analysis • GEL function support for automation activities such as regression testing • Automated testing and customization via scripting • Multi-processor debugging

Minimum System Requirements: • 233MHz or higher Pentium compatible CPU • 600MB of free hard disk space • 64MB of RAM • SVGA (800 x 600) display • Internet Explorer (4.0 or later) or Netscape Navigator (4.7 or later) • Local CD-ROM drive

Supported Operating Systems for Code Composer Studio: • Microsoft Windows 98 (SP1 and SE) • Microsoft Windows NT (SP6) • Microsoft Windows 2000 (SP1 and SP2) • Microsoft Windows XP

Description	Digi-Key Part No.	Price Each	Texas Instruments Part No.
C6000 Code Composer Studio Software for 320C6X	296-16633-ND	3181.58	TMDSCCS6000-1
C5000 Code Composer Studio Software for 320C5X	296-16631-ND	3181.58	TMDSCCS5000-1
C2000 Code Composer Studio Software for 320C2X	296-16632-ND	514.01	TMDSCCS2000-1

5-6K Interface Evaluation Module

The interface board consists of two signal conditioning sites, two serial EVM sites and a parallel EVM site. Three position screw terminals J1 and J2 and two position screw terminals J6, J8, J9 and J11 provides access to a common power bus routed to all sites. The 5-6K Interface board is intended to provide Data Converter customers with the greatest amount of flexibility for the evaluation of Data Acquisition Products from Texas Instruments. It maintains a compatible interface with the TMS320 Series (DSP).

Features:

- Provides all necessary voltages for device under test
- Bit clock for codecs
- Flexible interface to popular TI DSP's
- General codec requirements are addressed

296-18350-ND (5-6KINTERFACE) **$50.00**

8032 Microcontroller Core
Flash Programmable System Devices

uPSD is a family of 8-bit microcontrollers built on an 8032 microcontroller core. uPSD features a flexible memory structure, programmable logic, and rich peripheral set that includes devices with USB and JTAG debug/emulation. These, along with analog and supervisor functions, makes uPSD an ideal solution for a wide variety of embedded control applications.

Flash Size (Kbit)	Main Flash (Bytes)	SRAM (Bytes)	Device Speed (MHz)	No. of I/O Pins	Operating Timer/ Counters	Supply Voltage	Package	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
512	64K	2K	40	37	3	5.0	52-TQFP	497-2363-ND◆	9.44	8.63	6.82	UPSD3212C-40T6
			40	46		5.0	80-TQFP	497-2364-ND	10.61	9.70	7.67	UPSD3212C-40U6
			24	46		3.0	80-TQFP	497-2366-ND◆	10.61	9.70	7.67	UPSD3212CV-24U6
1K	128K	8K	40	37	3	5.0	52-TQFP	497-2367-ND◆	12.03	11.13	8.42	UPSD3233B-40T6
			40	46		5.0	80-TQFP	497-2368-ND◆	12.91	11.95	9.04	UPSD3233B-40U6
			24	37		3.0	52-TQFP	497-2369-ND◆	12.03	11.13	8.42	UPSD3233BV-24T6
			24	46		3.0	80-TQFP	497-2370-ND◆	12.91	11.95	9.04	UPSD3233BV-24U6
		32K	40	37	3	5.0	52-TQFP	497-2374-ND◆	14.51	13.43	10.16	UPSD3253B-40T6
			24	37		3.0	52-TQFP	497-2375-ND◆	13.72	12.70	9.61	UPSD3253BV-24T6
2K	256K	8K	40	37	3	5.0	52-TQFP	497-2371-ND◆	13.51	12.50	9.46	UPSD3234A-40T6
			40	46		5.0	80-TQFP	497-2372-ND	14.40	13.32	10.08	UPSD3234A-40U6
			24	46		3.0	80-TQFP	497-2373-ND◆	13.57	12.56	9.50	UPSD3234BV-24U6
		32K	40	37	3	5.0	52-TQFP	497-2376-ND◆	16.00	14.80	11.20	UPSD3254A-40T6
			40	46		5.0	80-TQFP	497-2377-ND◆	16.88	15.62	11.82	UPSD3254A-40U6
			24	46		3.0	80-TQFP	497-2378-ND◆	15.18	14.05	10.63	UPSD3254BV-24U6
32K	64K	4K	40	3 X 8 BIT	3	5	52-TQFP	497-5655-ND◆	8.04	7.34	5.81	UPSD3422EB40T6
			40	3 X 8 BIT		5	80-TQFP	497-5656-ND◆	8.50	7.77	6.14	UPSD3422EB40U6
			40	3 X 8 BIT		3	52-TQFP	497-5657-ND◆	8.04	7.34	5.81	UPSD3422EVB40T6
			40	3 X 8 BIT		3	80-TQFP	497-5658-ND◆	8.51	7.77	6.15	UPSD3422EVB40U6
	128K	8K	40	3 X 8 BIT	3	5	52-TQFP	497-5659-ND◆	9.57	8.74	6.91	UPSD3433EB40T6
			40	3 X 8 BIT		5	80-TQFP	497-5660-ND◆	10.03	9.17	7.25	UPSD3433EB40U6
			40	3 X 8 BIT		3	52-TQFP	497-5661-ND◆	9.57	8.74	6.91	UPSD3433EVB40T6
			40	3 X 8 BIT		3	80-TQFP	497-5662-ND◆	10.03	9.16	7.24	UPSD3433EVB40U6
	256K	8K	40	3 X 8 BIT	3	5	52-TQFP	497-5663-ND◆	9.94	9.08	7.18	UPSD3434EB40T6
			40	3 X 8 BIT		5	80-TQFP	497-5664-ND◆	10.42	9.52	7.53	UPSD3434EB40U6
			40	3 X 8 BIT		3	52-TQFP	497-5665-ND◆	9.94	9.08	7.18	UPSD3434EVB40T6
			40	3 X 8 BIT		3	80-TQFP	497-5666-ND◆	10.42	9.52	7.53	UPSD3434EVB40U6
		32K	40	3 X 8 BIT	3	3	52-TQFP	497-5667-ND◆	10.57	9.79	7.41	UPSD3454EB40T6
			40	3 X 8 BIT		3	80-TQFP	497-5668-ND◆	10.99	10.17	7.70	UPSD3454EB40U6
			40	3 X 8 BIT		5	52-TQFP	497-5669-ND◆	10.57	9.79	7.41	UPSD3454EVB40T6
			40	3 X 8 BIT		5	80-TQFP	497-5670-ND◆	10.99	10.17	7.70	UPSD3454EVB40U6
64K	16K	2K	40	37	3	3.3	52-TQFP	497-4890-ND◆	9.48	8.66	6.84	UPSD3312D-40T6
	32K	4K	40	35	3	3.3	52-TQFP	497-4904-ND◆	10.71	9.78	7.74	UPSD3422EV-40T6
			40	46		3.3	80-TQFP	497-4903-ND◆	10.36	9.59	7.26	UPSD3422E-40U6
			40	46		3.3	80-TQFP	497-4905-ND◆	10.36	9.59	7.26	UPSD3422EV-40U6
128K	32K	8K	40	37	3	3.3	52-TQFP	497-4894-ND◆	11.44	10.59	8.01	UPSD3333DV-40T6
			40	46		3.3	80-TQFP	497-4893-ND◆	12.21	11.30	8.55	UPSD3333D-40U6
			40	46		3.3	80-TQFP	497-4895-ND◆	12.91	11.95	9.04	UPSD3333DV-40U6
			40	35		3.3	52-TQFP	497-4908-ND◆	9.57	8.74	6.91	UPSD3433EV-40T6
			40	46		3.3	80-TQFP	497-4907-ND◆	13.71	12.69	9.60	UPSD3433E-40U6
			40	46		3.3	80-TQFP	497-4909-ND◆	14.46	13.38	10.13	UPSD3433EV-40U6
256K	32K	8K	40	46	3	3.3	80-TQFP	497-4896-ND◆	12.90	11.94	9.03	UPSD3334D-40U6
			40	46		3.3	80-TQFP	497-4897-ND◆	12.90	11.94	9.03	UPSD3334DV-40U6
			40	35		3.3	52-TQFP	497-4912-ND◆	9.94	9.08	7.18	UPSD3434EV-40T6
		32K	40	37	3	3.3	52-TQFP	497-4898-ND◆	15.17	14.03	10.62	UPSD3354D-40T6
			40	37		3.3	52-TQFP	497-4900-ND◆	15.17	14.03	10.62	UPSD3354DV-40T6
			40	46		3.3	80-TQFP	497-4899-ND◆	16.06	14.86	11.24	UPSD3354D-40U6

◆ ***RoHS Compliant***

Low Cost Field Programmable Microcontroller Peripherals

The low cost PSD3XX family integrates high-performance and user-configurable blocks of EPROM, programmable logic and optional SRAM into one part. The PSD3XX products also provide a powerful microcontroller interface that eliminates the need for external "glue logic". The part's integration, small form factor, low power consumption and ease of use make it ideal for interfacing to virtually any microcontroller.

Major functional blocks of the PSD3XX: • Two programmable logic arrays • 256Kb to 1Mb of EPROM • Optional 16Kb SRAM • Input latches • Programmable I/O ports • Page logic • Programmable security The ZPSD3XX has improved technology that helps reduce current consumption using the Turbo bit. Excellent if you require a 5V version of the PSD3XX that uses less power.
Speed: -70 = 70ns, -90 = 90ns

No. PLD Inputs	EPROM Size	SRAM Size	Page Reg.	Voltage	Turbo Bit	Bus Width	Typical Standby Current	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
18	1Mb	16Kb	Yes	5V	—	x8	50µA	497-3696-ND	14.64	13.55	10.25	PSD313B-90JI

DK3300-ELCD Development Kit

The DK3300-ELCD board is a demo board for the uPSD3300 family which is a series of 8051 class microcontrollers (MCUs) that contain a new fast Turbo 8032 core with a large Dual Bank Flash memory, a large SRAM, many peripherals, programmable logic and a JTAG Debug/In System Programming (ISP) port.

The DK3300-ELCD contains all the items needed to explore the Turbo uPSD3300 MCU. Included in the kit are demonstration application examples along with an evaluation copy of the tools needed to develop and compile code for the uPSD3300. The kit also contains the adapters necessary for programming the Flash inside the uPSD and for accessing the built-in JTAG debug port.

497-3750-ND (DK3300-ELCD) **$278.60**

DK900 Development Kit

Kit Includes:
• DK900 Evaluation Board with an 8051 MCU • FlashLINK JTAG In-System Programmer (ISP) • Detailed DK900 Manual for the 8051 MCU • Flash PSD sample in PLCC52 • UART and JTAG cables • 110V power supply

Download Software:
• PSDsoft Express • PSDload (version 1.10) - A Windows serial communications program (download self extracting archive load.exe) • DK900 8051 Demo contains demos for 8051 and 8051XA implementations • PSDstep - Serial communications protocol manual (MS Word doc format) • PSDloadman - Serial communications reference document (MS Word doc format)

497-2380-ND (DK900-110) **$102.96**

DK3400 Development Kit

To enhance the feature set of uPSD Turbo Family, the USB Microcontroller Development Kit DK3400 has been released from STMicroelectronics. The kit is a demo board for the uPSD3400 family which is a series of 8051 class microcontrollers (MCUs) that contain a fast Turbo Plus 8032 core with 16-bit code fetch path, full-speed USB port, a large Dual Bank Flash memory, a large SRAM, many peripherals, programmable logic and a JTAG Debug/In System Programming (ISP) port.

The DK3400 kit consists of an ED3K4 module and DK3400 motherboard as well as all the items needed to explore the uPSD3400 MCU. There are also demonstration application examples along with an evaluation copy of the tools needed to develop and compile code for the uPSD3400.

497-5218-ND (DK3400)..................................... **$362.60**

Microcontrollers

For the mass market ST offers several families of microcontrollers, e.g. the ST62, the ST7 and the ST9 ranges, with the result that there is a ST microcontroller to suit every kind of application, from those where minimum cost is the primary requirement to those that need powerful real-time performance and high-level language support. The recently introduced ST FIVE family integrates all the benefits of microcontrollers, together with a dedicated architecture, the "Decision Processor", oriented to high-level algorithms and a visual programming approach. ST also offers the innovative Programmable System Memory (FlashPSD, DSM) products, which combine memory functions such as Flash, EEPROM and SRAM with programmable logic on a single chip. Designed to interface with all standard microcontrollers to provide a complete system implementation, Programmable System Memories can be quickly and easily programmed without special manufacturing equipment, even in the field.

ST6 8-Bit

Program Memory / Type (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Operating Temperature Range	Package	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	STMicroelectronics Part No.
3K / OTP	128	Yes	21	13-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 85°C	28-SOIC	497-2103-5-ND◆	5.95	5.43	4.30	ST62T65CM6
3K / OTP	128		13	7-Ch., 8-Bit			20-SOIC	497-2102-5-ND◆	6.62	5.77	4.30	ST62T60CM6
4K / OTP	64		20	16-Ch., 8-Bit			28-SOIC	497-2101-5-ND	5.64	4.92	3.66	ST62T25CM6
4K / OTP	64		20	16-Ch., 8-Bit			28-DIP	497-2100-5-ND◆	5.64	4.92	3.66	ST62T25CB6
4K / OTP	64		12	8-Ch., 8-Bit			20-SOIC	497-2099-5-ND◆	5.18	4.52	3.36	ST62T20CM6
4K / OTP	64	Yes	12	8-Ch., 8-Bit	3.0 ~ 6.0	-40°C ~ 85°C	20-DIP	497-2098-5-ND◆	5.18	4.52	3.36	ST62T20CB6
2K / OTP	64		12	8-Ch., 8-Bit			20-SOIC	497-2097-5-ND◆	3.81	3.32	2.47	ST62T10CM6
2K / OTP	64		12	8-Ch., 8-Bit			20-DIP	497-2096-5-ND◆	4.06	3.54	2.64	ST62T10CB6
2K / OTP	64		9	4-Ch., 8-Bit			16-SOIC	497-2095-5-ND	3.15	2.74	2.04	ST62T01CM6
2K / OTP	64		9	4-Ch., 8-Bit			16-DIP	497-2094-5-ND◆	2.99	2.61	1.94	ST62T01CB6
1K / OTP	64		9	4-Ch., 8-Bit			16-DIP	497-2093-5-ND◆	2.84	2.37	1.99	ST62T00CB6

ST7 8-Bit

Digi-Reel®

Flash (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Operating Temperature Range	Package	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	STMicroelectronics Part No.
1K	128	Yes	13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-DIP	497-4860-ND◆	2.25	1.88	1.58	ST7FLITES2Y0B6
			13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-DIP	497-4862-ND◆	2.34	1.95	1.64	ST7FLITES5Y0B6
			13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-SOIC	497-4863-ND◆	2.34	1.95	1.64	ST7FLITES5Y0M6
			5	5-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	8-DIP	497-5636-5-ND◆	1.79	1.50	1.26	ST7FLITEUS5B6
			5	5-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	8-SOIC	497-5637-5-ND◆	1.89	1.58	1.33	ST7FLITEUS5M6
			5	5-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	8-DFN	497-5638-1-ND◆	1.65	1.38	1.16	ST7FLITEUS5U6/TR
			5	5-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	8-DFN	497-5638-2-ND◆	2145.00/3,000			ST7FLITEUS5U6/TR
1.5K	128	Yes	13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-DIP	497-4852-ND◆	2.49	2.08	1.75	ST7FLITE02Y0B6
			13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-SOIC	497-4853-ND◆	2.49	2.08	1.75	ST7FLITE02Y0M6
			13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-DIP	497-5632-5-ND◆	3.13	2.73	2.04	ST7FLITE09Y0B6
			13	5-Ch., 8-Bit	2.4 ~ 5.5	-40°C ~ 85°C	16-SOIC	497-5633-5-ND◆	3.13	2.73	2.04	ST7FLITE09Y0M6
2K	128	Yes	6	5-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 85°C	8-SOIC	497-6335-5-ND◆	.98	.85	.65	ST7FOXU0M6
	256	Yes	17	7-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 70°C	20-Dip	497-5626-5-ND◆	3.67	3.20	2.38	ST7FLIT19BF1B6
			17	7-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 70°C	20-SOIC	497-5627-5-ND◆	3.67	3.20	2.38	ST7FLIT19BF1M6
4K	256	Yes	22	6-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	28-SOIC	497-4840-ND◆	5.02	4.38	3.26	ST72F260G1M6
			22	6-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	28-SOIC	497-5581-5-ND◆	4.51	3.93	2.93	ST72F262G1M6
			22	6-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	28-SOIC	497-2105-5-ND	6.21	5.41	4.03	ST72F264G1M6
			17	7-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 70°C	16-DIP	497-5629-5-ND◆	3.38	2.94	2.19	ST7FLIT19BY1B6
			17	7-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 70°C	16-SOIC	497-5630-5-ND◆	3.38	2.94	2.19	ST7FLIT19BY1M6
			15	7-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-SOIC	497-2133-5-ND	4.21	3.67	2.73	ST7FLITE19F1M6
			15	7-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-DIP	497-2132-5-ND◆	4.21	3.67	2.73	ST7FLITE19F1B6
			15	7-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-SOIC	497-4855-ND◆	3.92	3.41	2.54	ST7FLITE15F1M6
	384	Yes	24	10-Ch, 10-Bit	4.5 ~ 5.5	-40°C ~ 85°C	32-DIP	497-6334-5-ND◆	1.69	1.47	1.13	ST7FOXK1B6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-SDIP	497-5609-5-ND◆	3.67	3.20	2.38	ST72F32AK1B6
			19	—	4.0 ~ 5.5	0°C ~ 70°C	24-SOIC	497-5620-5-ND◆	2.55	2.13	1.79	ST72F60E1M1
			19	—	4.0 ~ 5.5	0°C ~ 70°C	40-QFN	497-5622-1-ND◆	2.82	2.35	1.98	ST72F60K1U1TR
			19	—	4.0 ~ 5.5	0°C ~ 70°C	40-QFN	497-5622-2-ND◆	3666.00/3,000			ST72F60K1U1TR
8K / OTP	256	Yes	14	8-Ch., 8-Bit	4.0 ~ 5.5	-40°C ~ 85°C	32-DIP	497-2116-5-ND◆	8.03	7.33	5.80	ST72T141K2B6
8K	256	Yes	22	6-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	28-SOIC	497-4841-ND	5.10	4.45	3.31	ST72F262G2M6
			22	6-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	28-SOIC	497-2106-5-ND◆	5.85	5.09	3.80	ST72F264G2M6
			22	6-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	32-DIP	497-5570-ND◆	5.85	5.09	3.80	ST72F264G2B6
	384	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-SOIC	497-2135-5-ND	4.64	4.05	3.01	ST7FLITE29F2M6
			15	7-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-DIP	497-2134-5-ND◆	5.21	4.54	3.38	ST7FLITE29F2B6
			19	—	4.0 ~ 5.5	0°C ~ 70°C	24-SOIC	497-5621-5-ND◆	2.94	2.45	2.06	ST72F60E2M1
			11	3-Ch., 10-Bit	4.0 ~ 5.5	0°C ~ 70°C	20-SOIC	497-2114-5-ND	6.62	5.76	4.29	ST72F623F2M1
			23	8-Ch., 10-Bit	4.0 ~ 5.5	0°C ~ 70°C	34-SOIC	497-2113-5-ND◆	6.62	5.76	4.29	ST72F622L2M1
			27	8-Bit	4.0 ~ 5.5	0°C ~ 70°C	24-SOIC	497-5624-5-ND◆	3.48	3.04	2.26	ST72F63BE2M1
			27	8-Bit	4.0 ~ 5.5	0°C ~ 70°C	34-SOIC	497-5625-5-ND◆	5.84	5.34	4.22	ST72F63BK6M1
			15	7-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-SOIC	497-2131-5-ND	5.27	4.59	3.42	ST7FDALIF2M6
			44	6-Ch., 8-Bit	3.2 ~ 5.5	-40°C ~ 85°C	44-TQFP	497-4837-ND◆	10.36	9.46	7.48	ST72C334J2T6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	44-TQFP	497-4847-ND◆	4.83	4.21	3.13	ST72F324J2T6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	32-TQFP	497-4850-ND◆	5.27	4.59	3.42	ST72F324K2T6
			15	12-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-DIP	497-4856-ND◆	4.16	3.62	2.70	ST7FLITE20F2B6
			15	12-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-SOIC	497-4857-ND◆	4.16	3.62	2.70	ST7FLITE20F2M6
			15	12-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-DIP	497-4858-ND◆	4.32	3.76	2.80	ST7FLITE25F2B6
			15	12-Ch., 10-Bit	2.4 ~ 5.5	-40°C ~ 85°C	20-SOIC	497-4859-ND◆	4.32	3.76	2.80	ST7FLITE25F2M6
			60	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 85°C	32-TQFP	497-4865-ND	5.96	5.44	4.30	ST7FMC1K2T6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-SDIP	497-5591-5-ND◆	4.16	3.62	2.70	ST72F324BK2B6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-TQFP	497-5592-ND◆	3.92	3.41	2.54	ST72F324BK2T6
			32	12-Ch., 10-Bit	2.85 ~ 3.6	-40°C ~ 85°C	32-TQFP	497-5598-ND◆	5.94	5.17	3.85	ST72F324LK2T6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-TQFP	497-5608-ND◆	4.16	3.62	2.70	ST72F32AJ2T6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-TQFP	497-5610-ND◆	3.67	3.20	2.38	ST72F32AK2T6
			15	7-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 125°C	20-DIP	497-5634-5-ND◆	4.02	3.51	2.61	ST7FLITE39F2B6

◆ *RoHS Compliant*

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Microcontrollers

ST7 8-Bit *(Cont.)*

Flash (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Operating Temperature Range	Package	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
8K	384	Yes	15	7-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 125°C	20-SOIC	497-5641-5-ND◆	4.02	3.51	2.61	ST7FLITE39F2M6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-LQFP	497-5588-ND◆	4.40	3.84	2.86	ST72F324BJ2T6
16K	512	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	-10°C ~ 85°C	42-DIP	497-4848-ND◆	6.51	5.67	4.22	ST72F324J4B5
16K	512	Yes	44	8-Ch., 8-Bit	3.2 ~ 5.5	-40°C ~ 85°C	64-TQFP	497-4839-ND◆	11.11	10.15	8.02	ST72C334N4T6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	44-TQFP	497-4849-ND◆	6.37	5.55	4.13	ST72F324J4T6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	32-TQFP	497-4851-ND◆	6.21	5.41	4.03	ST72F324K4T6
			19	8-Ch., 8-Bit	4.0 ~ 5.5	0°C ~ 70°C	34-SOIC	497-2115-5-ND◆	6.35	5.53	4.12	ST72F63BK4M1
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-SDIP	497-5593-5-ND◆	4.62	4.02	3.00	ST72F324BK4B6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-TQFP	497-5594-ND◆	4.40	3.84	2.86	ST72F324BK4T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-TQFP	497-5601-ND◆	5.37	4.68	3.49	ST72F325J4T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-TQFP	497-5605-ND◆	5.13	4.47	3.33	ST72F325K4T6
	768	Yes	23	8-Ch., 10-Bit	4.0 ~ 5.5	0°C ~ 70°C	34-SOIC	497-2112-5-ND◆	6.92	6.33	5.00	ST72F621L4M1
			31	8-Ch., 10-Bit	4.0 ~ 5.5	0°C ~ 70°C	44-TQFP	497-2111-ND◆	8.51	7.77	6.15	ST72F621J4T1
			31	8-Ch., 10-Bit	4.0 ~ 5.5	0°C ~ 70°C	42-DIP	497-2110-5-ND	8.51	7.77	6.15	ST72F621J4B1
			60	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 85°C	32-TQFP	497-4866-ND◆	5.93	5.17	3.85	ST7FMC1K4T6
			60	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 85°C	44-TQFP	497-4870-ND◆	6.28	5.74	4.54	ST7FMC2S4T6
			35	—	4.0 ~ 5.5	0°C ~ 70°C	24-SOIC	497-5639-5-ND◆	7.50	6.85	5.42	ST7FSCR1E4M1
			35	—	4.0 ~ 5.5	0°C ~ 70°C	64-TQFP	497-5640-ND◆	8.35	7.63	6.03	ST7FSCR1R4T1
	1K	Yes	34	12-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	32-LQFP	497-5611-ND◆	4.26	3.71	2.76	ST72F344K4T6
			34	8-Ch., 10-Bit	2.7 ~ 5.5	-40°C ~ 85°C	44-LQFP	497-5872-ND◆	4.61	4.01	2.99	ST72F344S4T6
32K	1K	Yes	32	8-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	32-TQFP	497-2109-ND◆	5.76	5.26	4.16	ST72F324K6T6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	44-TQFP	497-2108-ND	5.80	5.30	4.19	ST72F324J6T6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	42-DIP	497-2107-5-ND	6.07	5.54	4.38	ST72F324J6B6
			48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	44-LQFP	497-5617-ND◆	7.43	6.79	5.37	ST72F561J6T6
			48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-5618-ND◆	6.46	5.91	4.67	ST72F561K6T6
	1024	Yes	27	8-Bit	4.0 ~ 5.5	0°C ~ 70°C	40-QFN	497-5623-1-ND◆	6.16	5.36	3.99	ST72F63BD6U1TR
			27	8-Bit	4.0 ~ 5.5	0°C ~ 70°C	40-QFN	497-5623-2-ND◆	8754.00/3,000			ST72F63BD6U1TR
			19	16/11-Ch., 10-Bit	4.0 ~ 5.5	0°C ~ 70°C	32-SDIP	497-5873-ND◆	7.50	6.85	5.42	ST72F63BK6B1
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	42-SDIP	497-5589-5-ND◆	5.54	4.82	3.59	ST72F324BJ6B6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-TQFP	497-5590-ND◆	5.37	4.68	3.49	ST72F324BJ6T6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-SDIP	497-5595-5-ND◆	5.13	4.47	3.33	ST72F324BK6B6
			32	12-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-TQFP	497-5596-ND◆	4.89	4.26	3.17	ST72F324BK6T6
			32	12-Ch., 10-Bit	2.85 ~ 3.6	-40°C ~ 85°C	44-TQFP	497-5597-ND◆	5.40	4.70	3.50	ST72F324LJ6T6
			32	12-Ch., 10-Bit	2.85 ~ 3.6	-40°C ~ 85°C	32-TQFP	497-5599-ND◆	5.98	5.46	4.32	ST72F324LK6T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	64-LQFP	497-5582-ND◆	6.05	5.53	4.37	ST72F321BAR6T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-LQFP	497-5584-ND◆	5.78	5.03	3.75	ST72F321BJ6T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	42-SDIP	497-5602-5-ND◆	6.13	5.34	3.98	ST72F325J6B6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-TQFP	497-5603-ND◆	5.89	5.13	3.82	ST72F325J6T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	32-TQFP	497-5606-ND◆	5.37	4.68	3.49	ST72F325K6T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	64-TQFP	497-4842-ND◆	7.33	6.70	5.29	ST72F321AR6T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	64-TQFP	497-4845-ND◆	8.40	7.68	6.07	ST72F321R6T6
			60	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 85°C	64-TQFP	497-4868-ND◆	8.53	7.80	6.16	ST7FMC2R6T6
			60	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 85°C	44-TQFP	497-4871-ND◆	7.50	6.85	5.42	ST7FMC2S6T6
	1.5K	Yes	48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	64-LQFP	497-5612-ND◆	6.35	5.80	4.59	ST72F361AR6T6
			48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	44-LQFP	497-5613-ND◆	6.37	5.55	4.13	ST72F361J6T6
			48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-5614-ND◆	5.78	5.03	3.75	ST72F361K6T6
48K	1536	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	44-TQFP	497-4843-ND◆	7.06	6.45	5.10	ST72F321J7T6
60K	1536	Yes	60	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 85°C	80-TQFP	497-4867-ND◆	10.44	9.54	7.54	ST7FMC2M9T6
	2048	Yes	48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 85°C	44-TQFP	497-4844-ND◆	8.46	7.73	6.11	ST72F321J9T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	64-LQFP	497-5583-ND◆	6.67	6.09	4.82	ST72F321BAR9T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-LQFP	497-5585-ND◆	6.22	5.68	4.49	ST72F321BJ9T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	64-LQFP	497-5586-ND◆	7.18	6.56	5.18	ST72F321BR9T6
			64	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	80-LQFP	497-5587-ND◆	7.75	7.08	5.60	ST72F321M9T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	64-TQFP	497-5600-ND◆	6.88	6.28	4.97	ST72F325AR9T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	44-TQFP	497-5604-ND◆	5.84	5.34	4.22	ST72F325J9T6
			48	16-Ch., 10-Bit	3.8 ~ 5.5	-40°C ~ 125°C	64-TQFP	497-5607-ND◆	7.08	6.47	5.12	ST72F325R9T6
	2K	Yes	48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-5615-ND◆	5.84	5.34	4.22	ST72F361K9T6
			48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	64-LQFP	497-5616-ND◆	10.37	9.48	7.49	ST72F561AR9T6
			48	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 125°C	32-LQFP	497-5619-ND◆	8.72	7.96	6.30	ST72F561K9T6

ST9 8-Bit

Program Memory / Type (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Operating Temperature Range	Package	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
128K	4K	Yes	80	16-Ch., 10-Bit	4.5 ~ 5.5	-40°C ~ 105°C	100-TQFP	497-4883-ND	13.82	12.79	9.68	ST92F150CV1TB

ST10 16-Bit

Program Memory / Type (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Operating Temperature Range	Package	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
									1	10	100	
Romless	1K	Yes	77	—	3.3	-40°C ~ 85°C	100-TQFP	497-2045-ND	8.63	7.88	6.23	ST10R272LT6
Romless	1K		77	—	3.3	-40°C ~ 85°C	100-TQFP	497-2044-ND	9.10	8.32	6.58	ST10R172LT6
Romless	2K		111	16-Ch., 10-Bit	5.0	-40°C ~ 125°C	144-PQFP	497-2043-ND◆	21.18	18.16	16.10	ST10R167-Q3
128K	12K		111	16-Ch., 10-Bit	5.0	-40°C ~ 125°C	144-PQFP	497-4832-ND◆	28.43	24.38	21.61	ST10F269Z1Q3
256K	12K		111	16-Ch., 10-Bit	5.0	-40°C ~ 85°C	144-PQFP	497-4833-ND◆	30.63	26.25	23.28	ST10F269Z2Q6
256K	20K	Yes	111	24-Ch., 10-Bit	5.0	-40°C ~ 125°C	144-PQFP	497-5579-ND◆	20.36	17.46	15.48	ST10F272Z2Q3
832K	68K		111	24-Ch., 10-Bit	5.0	-40°C ~ 125°C	144-PQFP	497-5580-ND◆	35.15	30.14	26.72	ST10F276Z5Q3

◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ST7 Programmers and Evaluation Boards

STX-RLINK Programmer

The RLink is Raisonance's versatile, low-cost, in-circuit debugger/programmer for ST7, uPSD, and STR7 microcontrollers. It connects to application or evaluation boards for programming and debugging via a JTAG standard connection for ARM core-based and uPSD microcontrollers, or via STMicroelectronic's In-Circuit Communication (ICC) connection for ST7 microcontrollers.

The RLink can be driven by Raisonance's RIDE integrated development environment for in-circuit debugging and programming of applications for ST7 and uPSD, and in-circuit programming of STR7 microcontroller applications. In combination with Raisonance's free RFlasher programming software, RLink can be used as a very-low cost, dedicated in-circuit programmer for ST7 and STR7.

ST7 application developers can also drive RLink using the STVD7 (version 3.3 or later) integrated development environment for in-circuit debugging/programming and STVP7 (version 2.0 or later) for in-circuit programing. Both are available for free download in the ST7 Toolset.

Note: RLinks included with REva starter kits for STR7 (ST part number: STRxxx-SK/RAIS) and Professional Kits for STR7 (Raisonance part number: RKITPSTRxxx) provide debugging of STR7 devices.

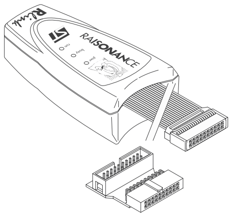

497-5046-ND (STX-RLINK) **$82.25**

ST7 Programmers

The ST7 EPB series of programming boards is able to program all ST7 microcontrollers with OTP, EPROM, EEPROM or FLASH memories, regardless of the socket type. Certain programming boards also support In-Situ Programming (ISP) or In-Circuit Programming (ICP). These boards are driven by ST programming software: ST7 Visual Programmer (STVP7), which includes all useful functions such as Verify, Blank Check, Read Master and others.

FEATURES: • ISP/ICP Programming • Handled Formats: Intel HEX • Host Interface: Parallel Port (LPT) • Power Supply: Delivered inside the package • User Manual Software: • STVP7 (Free, available on ST CD-ROM and web site)

Devices Supported*	Digi-Key Part No.	Price Each	STMicroelectronics Part No.
ST7262x	497-2901-ND	1036.00	ST7MDTU2-EPB/US
ST7263B	497-2902-ND	896.00	ST7MDTU3-EPB/US

*Socket: All packages except TQFP64 10*10

ST7 Evaluation Boards

ST7FOPTIONS-EVAL:

The Safe ST7 Evaluation Board is intended for starting with the ST72F264 microcontroller and evaluating the features of the ST7 Flash family. The ST72F264 sample installed on-board is programmed with an example software application.

FEATURES: Evaluate ST72F264: • Integrated Low Voltage Detector/Auxiliary Voltage Detector (LVD/AVD) • Safe backup clock (CSS: Clock Nested Interrupts) **Develop your own application using:** • I/O port connectors • Wire-wrap area • LEDs, 7-segment displays, buzzer • EEPROMs (SPI, I^{2}C) • Trimmers and buttons for reset and interrupts **Standalone Board:** • A 9V battery is provided • Input connector for external power

Devices Supported: ST72F26x

Contents: • Safe ST7 Evaluation Board • 9V Battery • One ST72F264 MCU programmed with the example software application code • CD-ROMs • User Manual • Selection Guide • Documentation

ST7MDTULS-EVAL:

FEATURES: • Low-speed USB Evaluation Board • Can be used to develop USB Class applications: In-Application Programming (IAP) hardware support Device Firmware Upgrade (DFU) and Human Interface Device (HID) application demonstrator (LEDs, buttons, trimmer) • ST72F61/62/63B MCU Family support • Wrapping area • Windows 98 applet, as well as USB firmware libraries for running the peripheral device

Devices Supported: ST72611, ST7262, ST263B

Contents: • Two ST7 Low-speed USB microcontroller devices: ST72F62 in SDIP42 package and ST72F63B in SDIP32 package • One USB evaluation board • CD-ROMs

ST7MDT20-EVC/US:

This board has been designed to help people begin working with ST7 devices or perform some tests and peripheral evaluation (SPI, I^{2}C, ADC...). It can be used with a device, the emulator or development kit.

FEATURES:

• LEDs • Trimmer • ISP connector for Flash devices programming • Reset button • External Interrupt Management • Buzzer • SPI, I^{2}C, EEPROM • CAN communication

Devices Supported: ST72124, ST72311, ST72311Rx, ST72314, ST72321, ST72324, ST72331, ST72334, ST7251x, ST72521 in QFP64

Contents: • MDT20 board • Power Supply • ISP/ICP Connector for Flash devices programming • Exercise manual (with detailed description of the board)

Description	Digi-Key Part No.	Price Each	STMicroelectronics Part No.
Evaluation Board for ST7 Series	497-2895-ND	328.90	ST7FOPTIONS-EVAL
Low-Speed USB Evaluation Board	497-2903-ND	224.00	ST7MDTULS-EVAL
Evaluation Board for Training	497-2897-ND	1267.50	ST7MDT20-EVC/US

ST7 Emulators

STMicroelectronics continuously invests in efforts to offer a high-end emulator to support ST7 microcontrollers. The ST7-EMU3 series of emulators is the third generation of high-end emulators for ST7. EMU3 series emulators are designed to speed up the development of complex software applications for ST7 microcontrollers by providing a complete range of advanced emulator debugging features, as well as In-Circuit Debugging (ICD) and In-Circuit Programming (ICP) capability.

Features:

- A common hardware development system mainframe supports the entire ST7 family of microcontrollers.
- 64Kbytes of user modifiable and configurable emulation RAM, allows memory mapping of all ST7 family devices as well as modeling hypothetical memory configurations.
- Logic analyzer events may trigger a breakpoint or simply define data capture parameters, in accordance to user preferences.
- Simple connection of the emulator system to the host PC via RS-232 serial channel or parallel port.
- Log files allow storage and subsequent re-display of any display screen for subsequent analysis.
- Real-time source level emulation allows viewing and breakpoint setting on high level source code rather than on disassembled target code for optimum user friendliness.
- Unlimited breakpoints may be set for any op-code fetch or any address access, and conditions may be defined for the generation of 2 external synchronization signals
- 1K by 32-bit wide trace memory for logic analyzer allows complex and sequential events to be defined on any combination of address and data, as well as 3 internal and 5 external logic signals
- Emulation system may be driven by a Windows-based GNU debugger software or DOS software running on host PC, allowing full control and monitoring of hardware resources.
- Multiple windows allow concurrent real-time display of source code, microcontroller resources, internal registers, trace data, etc.
- Command files can be used to execute a set of debugger commands in batch mode.
- Editable configuration files ensure tailoring of working environment to user preferences.

Supported Devices	Digi-Key Part No.	Price Each	STMicroelectronics Part No.
ST72260G1, ST72262G1, ST72262G2, ST72264G1, ST72264G2, ST7FLITE05, ST7FLITE09, ST7FLITE20, ST7FLITE25, ST7FLITE29, and ST7FDALI	497-4872-ND	5320.00	ST7MDT10-EMU3
ST72F321J9, ST72F321J7, ST72F324J6, ST72F324J4, ST72324J2, ST72F324K6, ST72F324K4, ST72324K2, ST72F344J4, ST72344J2, ST72F344K4, and ST72344K2	497-4879-ND	5320.00	ST7MDT20J-EMU3
ST72321M9, ST72F321M9, ST72321M7, ST72F321M7, ST72521M9, ST72F521M9, ST72521M7, and ST72F521M7	497-4880-ND	6300.00	ST7MDT20M-EMU3
ST72621J4, ST72621J2, ST72621L4, ST72622L2, ST72621K4, ST72622K2, ST72623F2, ST72611F1, ST72F611F1, and ST72P611F4	497-4881-ND	4620.00	ST7MDTU2-EMU2B

ST7 Development Kit

Supported Device	Digi-Key Part No.	Price Each	STMicroelectronics Part No.
ST72521M9	497-4878-ND	616.00	ST7MDT20-T80/DVP

32-Bit ARM Microcontrollers

The STR7 is a range of innovative 32 bit microcontrollers built on the industry standard ARM7 RISC core. The STR7 devices include high quality embedded Flash and feature powerful peripheral functions including USB and CAN. They are ideal for embedded applications requiring a compact yet powerful MCU and a versatile scalable solution. STR7 are used in various applications like user interfaces, factory automation systems, point of sale, appliances and many others. Built on the leading ARM™ architecture, STR7 allows fast response to emerging requirements, enabling the rapid implementation of changes at low cost. The flexibility of the family, with its rich options for Flash, RAM, the largest peripherals set and its versatile package options helps you reuse it for a whole range of products, optimizing your developments. It helps you build cost effective and powerful solutions that bring innovation in your market. ARM core with embedded Flash and RAM.

The STR71xF series is a family of ARM powered 16/32-bit Microcontrollers with embedded Flash and RAM. It contains the high performance ARM7TDMI CPU with an extensive range of peripheral functions and enhanced I/O capabilities. All devices have on-chip high speed single voltage FLASH memory and high speed RAM. The STR71xF family has an embedded ARM core and is therefore compatible with all ARM tools and software. For more information on the ARM Realview Developer Kit for ST and third party development tools, please refer to the www.st.com/mcu

STR730F Flash microcontrollers from STMicroelectronics combine the industry standard ARM7TDMI® RISC microprocessor with embedded Flash and powerful peripheral functions, including up to 20 timers, 4xUARTs and 3xCANs. They are ideal for embedded applications requiring a compact yet powerful MCU, as well as versatile, scalable solutions such as user interfaces, factory automation systems and appliances. Additionally, the STR730F family features a single 5V power supply particularly suited to industrial applications.

Features: • High-performance industry standard core ARM7TDMI RISC 32-bit CPU • Extensive software and tools including the complete STR7 library supporting all standard peripherals and the CAN • Largest choice of peripherals and interfaces including 4xUARTs, up to 20 timers and up to 3xCANs • Flexible power and clock management, five low-power modes, low-power voltage regulator, dual APB buses architecture, multiple clock sources • Single 5V power supply • High-quality embedded Flash (data retention 20 years at 85°C) • 16 x channels DMA • Rich package options including the tiny proven 10x10 LFBGA144 • Temperature range: -40°C ~ 85°C and -40°C ~ 105°C

Benefits: • Future-proof microcontrollers that easily adapt to customer requirements • Dramatically reduces development time and increases ease-of-use • Reduces system cost with all peripherals in one chip • Gives you full control over your power consumption and performance/power trade-offs • Native supply of industrial applications, no 3.3V conversion needed • Suitable for long-life equipment • Lower CPU load, optimized access to memory • Optimizes your developments: the same device in different options will fit all your product range • Increase domain of validity for the application to +105°C

Internal ROM Type	Internal ROM Size	Internal RAM Size	USB	CAN	I/O Ports	Package	Temperature Range	Digi-Key Part No.	Price Each			Tape and Reel‡		STMicroelectronics Part No.
									1	10	100	Qty.	Pricing	
Flash	128K	32K	Yes	Yes	48	144-TQFP	-40°C ~ 85°C	497-4510-ND	14.50	13.42	10.15	—	—	STR710FZ1T6
	256K	64K	Yes	Yes	48	144-LFBGA	-40°C ~ 85°C	497-5642-ND	16.10	14.90	11.27	—	—	STR710FZ2H6
	256K	64K	Yes	Yes	48	144-TQFP	-40°C ~ 85°C	497-4511-ND	16.10	14.90	11.27	—	—	STR710FZ2T6
	64K	16K	Yes	No	30	64-TQFP	-40°C ~ 85°C	497-4885-ND	10.24	9.35	7.39	—	—	STR711FR0T6
	128K	32K	Yes	No	30	64-TQFP	-40°C ~ 85°C	497-4512-ND	11.50	10.64	8.05	—	—	STR711FR1T6
	256K	64K	Yes	No	30	64-LFBGA	-40°C ~ 85°C	497-5643-ND	11.64	10.77	8.15	—	—	STR711FR2H6
	256K	64K	Yes	No	30	64-TQFP	-40°C ~ 85°C	497-4513-ND	13.10	12.12	9.17	—	—	STR711FR2T6
	64K	16K	No	Yes	32	64-TQFP	-40°C ~ 85°C	497-4887-ND	10.24	9.35	7.39	—	—	STR712FR0T6
	128K	32K	No	Yes	32	64-TQFP	-40°C ~ 85°C	497-4514-ND	10.10	9.35	7.07	—	—	STR712FR1T6
	256K	64K	No	Yes	32	64-TQFP	-40°C ~ 85°C	497-4515-ND	11.80	10.92	8.26	—	—	STR712FR2T6
	64K	16K	No	No	32	64-TQFP	-40°C ~ 85°C	497-4888-ND	8.97	8.19	6.48	—	—	STR715FR0T6
	256K	16K	Yes	Yes	112	144-LQFP	-40°C ~ 105°C	497-5645-ND	15.80	14.62	11.06	—	—	STR730FZ2T6
	128K	16K	Yes	Yes	112	144-TQFP	-40°C ~ 105°C	497-5139-ND	17.46	16.16	12.23	—	—	STR730FZ1T7
	256K	16K	Yes	Yes	112	144-LFBGA	-40°C ~ 105°C	497-5644-ND	15.80	14.62	11.06	—	—	STR730FZ2H6
	256K	16K	Yes	Yes	112	144-TQFP	-40°C ~ 105°C	497-5140-1-ND†	19.74	18.26	13.82	360	4725.72	STR730FZ2T7
	128K	16K	Yes	Yes	72	100-TQFP	-40°C ~ 105°C	497-5141-1-ND†	16.62	15.38	11.64	540	5699.16	STR731FV1T7
	256K	16K	Yes	Yes	72	100-TQFP	-40°C ~ 105°C	497-5142-ND	18.70	17.30	13.09	—	—	STR731FV2T7
	256K	16K	Yes	Yes	72	100-TQFP	-40°C ~ 105°C	497-5646-ND	14.96	13.84	10.48	—	—	STR731FV2T6
	128K	16K	Yes	No	112	144-TQFP	-40°C ~ 105°C	497-5143-1-ND†	14.38	13.31	10.07	360	3442.68	STR735FZ1T7
	256K	16K	Yes	No	112	144-LQFP	-40°C ~ 105°C	497-5647-ND	13.16	12.18	9.22	—	—	STR735FZ2T6
	256K	16K	Yes	No	112	144-TQFP	-40°C ~ 105°C	497-5144-1-ND†	16.46	15.23	11.53	360	3940.56	STR735FZ2T7
	128K	16K	Yes	No	72	100-TQFP	-40°C ~ 105°C	497-5145-1-ND†	14.60	13.51	10.22	540	5006.34	STR736FV1T7
	256K	16K	Yes	No	72	100-TQFP	-40°C ~ 105°C	497-5648-ND	12.46	11.53	8.73	—	—	STR736FV2T6
	256K	16K	Yes	No	72	100-TQFP	-40°C ~ 105°C	497-5146-1-ND†	15.58	14.42	10.91	540	5342.22	STR736FV2T7
	256K	16K	Yes	Yes	72	100-LQFP	-40°C ~ 105°C	497-5650-ND	11.40	10.41	8.23	—	—	STR750FV2T6
	64K	16K	Yes	Yes	72	100-LQFP	-40°C ~ 85°C	497-5749-ND	9.05	8.26	6.53	—	—	STR750FV0T6
	128K	16K	Yes	Yes	72	100-LQFP	-40°C ~ 85°C	497-5750-ND	9.79	8.95	7.07	—	—	STR750FV1T6
	256K	16K	Yes	Yes	72	100-LFBGA	-40°C ~ 105°C	497-5649-ND	11.40	10.41	8.23	—	—	STR750FV2H6
	64K	16K	Yes	No	38	64-LQFP	-40°C ~ 85°C	497-5755-ND	8.78	8.02	6.34	—	—	STR751FR0T6
	128K	16K	Yes	No	38	64-LQFP	-40°C ~ 85°C	497-5756-ND	9.53	8.71	6.88	—	—	STR751FR1T6
	256K	16K	Yes	No	38	64-LFBGA	-40°C ~ 105°C	497-5651-ND	11.03	10.07	7.96	—	—	STR751FR2H6
	256K	16K	Yes	No	38	64-LQFP	-40°C ~ 105°C	497-5652-ND	11.03	10.07	7.96	—	—	STR751FR2T6
	256K	16K	No	Yes	38	64-LQFP	-40°C ~ 105°C	497-5653-ND	11.03	10.07	7.96	—	—	STR752FR2T6
	256K	16K	No	No	38	64-LQFP	-40°C ~ 105°C	497-5654-ND	10.43	9.53	7.53	—	—	STR755FR2T6
	64K	16K	No	No	72	100-LQFP	-40°C ~ 85°C	497-5757-ND	8.56	7.82	6.18	—	—	STR755FV0T6
	128K	16K	No	No	72	100-LQFP	-40°C ~ 85°C	497-5758-ND	9.31	8.50	6.72	—	—	STR755FV1T6
	256K	16K	No	No	72	100-LFBGA	-40°C ~ 85°C	497-5871-ND	10.80	9.87	7.80	—	—	STR755FV2H6
	256K	16K	No	No	72	100-LQFP	-40°C ~ 85°C	497-5759-ND	10.80	9.87	7.80	—	—	STR755FV2T6
	256K	64K	No	Yes	40	80-LQFP	-40°C ~ 80°C	497-6275-ND	10.37	9.60	7.27	—	—	STR910FAM32X6
	256K	64K	No	Yes	80	128-LQFP	-40°C ~ 80°C	497-6276-ND	11.02	10.20	7.72	—	—	STR910FAW32X6
	256K	64K	No	Yes	80	144-LFBGA	-40°C ~ 80°C	497-6277-ND	11.54	10.68	8.08	—	—	STR910FAZ32H6
	256K	96K	Yes	Yes	40	80-LQFP	-40°C ~ 80°C	497-6278-ND	11.15	10.32	7.81	—	—	STR911FAM42X6
	512K	96K	Yes	Yes	40	80-LQFP	-40°C ~ 80°C	497-6279-ND	12.45	11.52	8.72	—	—	STR911FAM44X6
	256K	96K	Yes	Yes	80	128-LQFP	-40°C ~ 80°C	497-6280-ND	11.54	10.68	8.09	—	—	STR911FAW42X6
	512K	96K	Yes	Yes	80	128-LQFP	-40°C ~ 80°C	497-6281-ND	13.10	12.13	9.18	—	—	STR911FAW44X6
	256K	96K	Yes	Yes	80	128-LQFP	-40°C ~ 80°C	497-6283-ND	12.19	11.28	8.54	—	—	STR912FAW42X6
	256K	96K	Yes	Yes	80	144-LFBGA	-40°C ~ 80°C	497-6285-ND	12.72	11.77	8.91	—	—	STR912FAZ42H6
	128K	32K	Yes	Yes	80	48-LQFP	-40°C ~ 80°C	497-6287-ND	7.48	6.83	5.40	—	—	STM32F101CBT6
	128K	32K	Yes	Yes	80	48-LQFP	-40°C ~ 80°C	497-6288-ND	8.83	8.07	6.38	—	—	STM32F103CBT6

† Cut Tape ‡ For Tape and Reel part number, change 1-ND to 2-ND.

32-Bit ARM Kits and Tools

STR7 KickStart Kits from IAR

IAR KickStart Kits™ are cost effective and complete evaluation and development systems in a single package that are designed to help you to a flying start with all the necessary hardware and software you need to design, implement and test your application.

Kit Includes: • STR7 Development Board • J-Link-KS — IAR Systems' USB-to-JTAG Debugger • CD containing Embedded Workbench® for ARM — IAR's easy-to-use, powerful integrated development environment that seamlessly integrates a complete range software tools in a comprehensive toolkit, recognized for its efficient code generation and unique debugging properties. It includes the 32KB KickStart version of the C/C++ compiler, built in Flash loader and many useful sample projects covering the full range of STR7 peripherals

497-4550-ND	(STR711-SK/IAR) — ***RoHS Compliant***	**$418.60**
497-5047-ND	(STR730-SK/IAR)	**$418.25**
497-4886-ND	(STR712-SK/IAR) — ***RoHS Compliant***	**$418.60**

STR7 REva Starter Kits from Raisonance

The REva starter kits from Raisonance are cost effective and complete solutions for evaluating and starting application development with ST microcontrollers.

Kit Package Includes: • REva Mother Board: Universal evaluation board designed to easily and quickly evaluate a range of ST microcontrollers. The mother board provides a host of evaluation features including LEDs, push buttons, switches, temperature sensor, potentiometer and interfaces for I^{2}C, SPI and UART. • REva Daughter Boards: Dedicated boards that contain all the specific components for a given microcontroller, including the MCU itself, a clock selector and other device dependant features. • RLink: In-circuit debugger/programmer, featuring USB host interface. The RLink is attached to the REva mother board so that no additional connection cables are required for in-circuit programming and debugging with the REva. In addition, the user can power the MCU, REva evaluation board and the RLink all from the USB connection. • Raisonance's RIDE: The full-featured Integrated Development Environment, which provides seamless integration of C and Assembler tools and a full-featured debug interface.

497-5048-ND	(ST7232X-SK/RAIS)	**$265.91**
497-5049-ND	(ST7FLITE-SK/RAIS)	**$208.25**
497-4889-ND	(STR71X-SK/RAIS) — ***RoHS Compliant***	**$278.60**

STR71x Evaluation Board

The STR710-EVAL board is a complete development platform for the STR71x series. The STR710-EVAL board is a cost effective, flexible and open design to demonstrate the capability of the STR71x series of flash microcontrollers and to enable rapid evaluation of the STR71x devices and available peripherals. It includes the high performance STR710FZ2T6 ARM7TDMITM device that boasts 2Mbits embedded flash with "best-in-class" random access time, 64KB on-chip high speed SRAM as well as up to 10 serial communication interfaces, including USB and CAN.

The STR710-EVAL board includes SRAM and flash memory on the EMI to enable full freedom in development of large programs before custom hardware is designed. It integrates a 2x16 LCD, LED's, UART, CAN, USB interfaces, piezo buzzer and test buttons to create a versatile stand alone test platform. A wide choice of development tool support is readily available, including tools from: STMicroelectronics and 3rd parties.

497-4516-ND	(STR710-EVAL)	**$420.00**

STR750 Evaluation Board

The STR750 Evaluation Board (STR750-EVAL) is a complete, development platform for STMicroelectronic's ARM® core-based STR75xF microcontrollers. Based on a cost effective, flexible and open design, it allows easy demonstration of STR75xF capabilities and enables rapid evaluation of the microcontroller's peripheral and other features.

It includes the high performance STR750F microcontroller, which is based on the ARM7TDMI-S core and includes USB 2.0 compliant port with full speed data transmission, CAN 2.0A/B compliant interface, 3 UART channels, internal Flash and internal SRAM memory.

The STR750-EVAL features a complete range of connectors and hardware features for developing applications based on STR75xF peripherals including motor control, USB and RS232 connectors, microphone, speaker, joystick and LCD display.

The STR750-EVAL uses a JTAG standard interface to connect to your host PC via any of a range of in-circuit emulators (ICE) for ARM core-based microcontrollers.

Features: • Three 5V power supply options: Power jack, USB connection or daughter board • RTC • Audio play and record • 3 RS232 connectors, one with hardware flow control • USB 2.0 compliant with full speed (12Mb/s) data transmission • CAN 2.0A/B connection • Inductor Motor Control connector with 6 PWM output and Emergency Stop • Debug and programming support via 20-pin JTAG connector • Dot-matrix LCD module • Joystick with 4-direction control and selector • Extension connectors for daughter board or wrapping board

497-5748-ND	(STR750-EVAL)	**$334.60**

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

32-Bit ARM Kits and Tools *(Cont.)*

Hitex Starter Kit for STR7

The Hitex Starter Kits for ST ARM® are complete, full-featured solutions for starting application development and evaluating the features of STMicroelectronic's ARM® core-based microcontrollers. They come with all the hardware and software developers need to start developing applications for STR7 and STR9 devices, including full-featured evaluation board, target microcontroller, Tantino JTAG interface and the HiTOP5 Integrated Development Environment with GNU C/C++ toolset.

Starter Kit Architecture: • **Tantino**: In-circuit debugging and programming tool for ARM7TDMI™ and ARM966E™ core-based microcontrollers features USB host interface and industry standard JTAG application board interface • **Hitex Evaluation Board**: Full-featured evaluation board with target microcontroller is designed for quick and easy evaluation of a complete range of microcontroller features such as Ethernet, USB, CAN, UART, I^2C and SPI as well as the ADC peripheral. Power supply is included. • **HiTOP5 Software**: Hitex's integrated development environment that drives the hardware and offers a full range of project management, source code editing and debugging features from an intuitive graphical interface. Includes the GNU C/C++ toolset for compiling application source files. The starter kit comes with 16K code-size limited version of the HiTOP5 IDE. HiTOP5 also supports the Tanto in-circuit debugging tool and Tanto Port Trace for STR9 microcontrollers with Embedded Trace Macrocell

Starter Kit Key Features: • **Tantino**: • USB interface to host PC • JTAG standard interface • Supports ARM7TDMI™ and ARM966E™ core-based microcontrollers • **HiTOP5**: • GNU C/C++ Toolset • HiSIM instruction simulator for ARM® • Projected management • Integrated editor • High-level language debugging • Trace support • Drives both Tantino and Tanto JTAG interfaces

497-5751-ND	(STR750-SK/HIT)	**$211.47**

I Love ST Mini Development Board

The I Love ST Mini Development Board contains an STR750 microcontroller, 16 LEDs, 2 skin-conductance pads which can be used as buttons, and an STR711 controlling the USB port and the JTAG functions.
The board will run for several hours on the lithium battery mounted on the bottom of the board. No external JTAG debugger probe is necessary. Simply connect a mini-USB cable to the board and load the KickStart edition of IAR Embedded Workbench for ARM to Flash and debug your STR750 application.

497-5988-ND	(STR750-LOVE)	**$33.25**

STZB-SK/RAIS REva ZigBee Starter Kit

The STZB-SK/RAIS REva ZigBee Starter Kit is one of Raisonance's low-cost solutions designed to help developers add wireless connectivity to their ST7 microcontroller-based applications using STMicroelectronics' SN260 single-chip ZigBee wireless networking device.
With the included SNRCM-260 module, EmberZnet ZigBee plug-and-play SPI interface, developers can turn their REva mother boards into wireless application nodes and explore the possibilities of networking their microcontroller applications.

Starter Kit includes: • SNRCM-260 module • EmberZnet stack • ST EZSP and HAL libraries • REva mother board and embedded RLink • STR711F daughter board • ST7FLITE3 daughter board • Raisonance RIDE • GNU C/C++ compiler for ARM • Raisonance C compiler for ST7

497-5990-ND	(STZB-SK/RAIS)	**$560.00**

Hitex STM32 Performance Stick

The Hitex STM32-Performance Stick is a complete, low-cost evaluation and development package that provides a fast and easy introduction to the capabilities of ST's ARM®Cortex™-M3 core-based STM32 family of microcontrollers. It is specifically designed to help application designers explore STM32 features and performance characteristics (low power modes, clock controls, wake up states, etc.), but can also be connected to extension boards with hardware features for evaluation of device peripherals or development of an application.

497-6289-ND	(STM3210B-PFSTICK)	**$82.25**

Keil Starter Kit for STR7 and STR91xF

The Keil starter kits are complete solutions for starting application development and evaluating STMicroelectronic's families of ARM® core-based microcontrollers. They come with all the hardware and software you need to start developing applications for the STR7 ARM7TDMI™ and STR9 ARM966E™ core-based microcontrollers. The kits come complete with evaluation board and target microcontroller, the ULink™ USB-to-JTAG in-circuit debugger/programmer Keli's uVision3 integrated development environment for ARM and the 16KB code-size limited version of the ARM RealView Compilation Tools.

Starter Kit Architecture: • **ULink**: USB-to-JTAG in-circuit debugger/programmer integrates fully with uVision3, allowing users to download the application to the target and debug it while it runs on the ST ARM core-based microcontroller on the evaluation board • **Evaluation Board**: An application board that provides a full range of features (I/Os, ADC, UART, SPI, USB...etc.) to help users evaluate and start developing applications for the included microcontroller • **Keil Development Software**: A suite of software tools for developing and debugging applications for STR7 and STR9 including: • uVision3 integrated development environment integrating the ARM RealView Compilation Tools and Keil's debugging software so that users can quickly and easily develop and debug their applications while they run on a target microcontroller. • ARM RealView Compilation Tools (RVCT) 16K code-size limited version of the optimizing C/C++ compiler for ARM core-based microcontrollers **Starter Kit Key Features**: • **ULink**: • USB interface to the host PC • 20-pin JTAG application interface • Supports ARM7TDMI and ARM966E core-based microcontrollers.

497-5753-ND	(STR750-SK/KEIL)	**$211.47**
497-5066-ND	(STR91X-SK/KEI)	**$199.00**

STR910 Family Evaluation Board

The STR910 evaluation board (STR910-EVAL) is a complete development platform for the STMicroelectronic's ARM® core-based STR91xF. Based on the ARM966E-S® core.
The STR91xF includes Pre-Fetch Queue and Branch cache, full speed USB 2.0 compatible port, Ethernet 100/10 interface, embedded MAC, CAN2.0B compliant interface, a large Dual Bank Flash memory, a large SRAM and many peripherals. It includes a STR910F microcontroller, pre-loaded demonstration software and a full range of hardware features to help you evaluate device peripherals (Motor control, IrDA, USB, Ethernet, CAN,...etc.) and develop your own applications. Extension headers make it possible to easily connect a daughter board or wrapping board for your specific application.

Features: • Three 5V power supply options: Jack, USB connection or a Daughter board • RTC with tamper detection • Audio play and record • 3 RS232 connectors with support of full modem control on one connector • Infrared Data Access (IrDA) • USB 2.0 compliant with full-speed (12Mb/s) data transmission • CAN 2.0B connection • Inductor Motor Control connector with 6 PWM output, emergency stop and Tachometer input • IEEE-802.3-2002 compliant Ethernet connection • Debug support via 20-pin JTAG connector • 38-pin ETM connector for optional trace module • Dot-matrix LCD module • Joystick with 4-direction control and selector • Extension connectors for daughter board or wrapping board

497-5067-ND	(STR910-EVAL)	**$289.90**

REva Starter Kit for STR7 and STR9

The REva Starter Kits (STR71X-SK/RAIS, STR730-SK/RAIS, STR91X-SK/RAI) are Raisonance's complete, low-cost solutions for starting application development and evaluating the features of STMicroelectronic's ARM7TDMI™ and ARM966E™ core-based microcontrollers. Kits come with all the hardware and software developers need to start developing applications for STR7 and STR9 devices, including the REva evaluation board, microcontroller(s), embedded RLink JTAG in-circuit debugger/programmer and Raisonance Integrated Development Environment (RIDE).

Starter Kit Architecture:

• **Embedded RLink:** In-circuit debugging and programming tool with JTAG application board interface and USB connection to the host PC • **REva Motherboard:** Universal evaluation board designed for quick and easy evaluation of a complete range of device features. It is powered from the RLink's USB connection to the host PC • **REva Daughter Boards:** Interchangeable boards featuring different target microcontrollers, make it easy to evaluate and develop applications for a complete range of MCUs from a single evaluation platform • **RIDE Software:** Raisonance's integrated development environment drive the hardware and offers seamless control of all software development tools (compiler, assembler, linker, debugger, etc.) from an intuitive graphical interface. Fully integrates control of the GNU C/C++ tools. The starter kit comes with the 16K code size limited version of RIDE • **REva Starter Kits:** Based on the same mother/daughter board design, with embedded RLink, and driven by RIDE are available for the ST7 and uPSD 8-bit microcontroller families **Starter Kit Key Features:** • **Embedded RLink:** • USB interface to host PC • Industry standard JTAG application interface • **REva Motherboard:** • One standard SO-DIMM connector to plug in daughter boards • Digital and analog I/O evaluation features, including on-board LEDs, buttons, switches, external analog connector, temperature sensor and potentiometer • I^2C EEPROM and bus • RS232 driver and 2 DB9 connectors • Prototyping area • VDD settings for 1.8V, 3.3V and 5V • USB powered, no external power required

497-5754-ND	(STR750-SK/RAIS) — ***RoHS Compliant***	**$211.47**
497-5064-ND	(STR91X-SK/RAI)	**$199.00**

KickStart Starter Kit for STR7 and STR9

The KickStart Kits™ (STR711-SK/IAR, STR712-SK/IAR, STR730-SK/IAR, STR731-SK/IAR and STR91x-SK/IAR) are IAR's complete, cost-effective solutions for starting application development and evaluating STMicroelectronic's ARM® core-based microcontrollers. They come with all the hardware and software you need to start developing applications for a full range of STMicroelectronic's ARM7TDMI™ and ARM966E™ core-based microcontrollers. The kits include the KickStart Development Board with target microcontroller, the IAR JLink USB-to-JTAG debugger and IAR Embedded Workbench® for ARM (EWARM) integrated development environment with the 32KB KickStart version of the C/C++ compiler, built in Flash loader and sample projects for all device peripherals.

Starter Kit Architecture: • **JLink:** USB-to-JTAG in-circuit debugger/programmer integrates fully with EWARM, allowing you to download the application to your target and debug it while it runs on your ST ARM core-based microcontroller • **KickStart Development Board:** • Evaluation board that provides a full range of features (I/Os, ADC, UART, SPI, I^2C, USB, etc.) to help you evaluate and start developing applications for the included microcontroller • The board is powered from the JLink's USB connection with the host PC • **IAR Development Software:** A suite of software tools for all phases of application development that includes: • IAR Embedded Workbench for ARM integrated development environment with the KickStart 32KB C/C++ compiler to build the application and the C-SPY™ debugger for debugging the application while it runs on your micrcontroller • VisualSTATE® 20-state version of IAR's graphical design environment with C/C++ code generator for developing application code based on machine states.

Starter Kit Key Features: • JLink: • Supplies power from USB connection via pin 19 of the JTAG connector (no additional power supply required). • Download speed up to 50KB/sec • Maximum JTAG speed 8MHz • Auto speed recognition • 20-pin standard JTAG connector • USB and 20-pin flat cable included • Level shifter for 3.3V to 5V conversion (STR73X-SK/IAR, STR91X-SK/IAR) • **Supported platforms:** Microsoft® Windows® 2000 and XP

497-5752-ND	(STR750-SK/IAR)	**$317.87**
497-5065-ND	(STR91X-SK/IAR)	**$299.00**

STM3210B-EVAL Evaluation Board

The STM3210B-EVAL is a complete development platform for the STM32F10x (128K) series of ARM®Cortex™-M3 core-based microcontrollers. It provides a cost effective, flexible and open design ideal for demonstrating the capabilities of the STM32F10x devices and rapidly evaluating device features and available peripherals. It includes an STM32F10x device with high performance ARM®Cortex™-M3, full speed USB 2.0 interface, CAN 2.0A/B compliant interface, 2 channels I2C, 2 channels SPI, 3 channels USART with smart card support, internal 20Kbyte SRAM and 128Kbyte flash. The STM3210B-EVAL board includes a complete range of hardware features for evaluating microcontroller performance and starting development of a wide range of applications. Features include MicroSD card, serial flash, USB, CAN, I2C, RS232, IrDA, induction motor control connector, TFT color LCD and more.
The board features industry standard JTAG connector allowing developers to choose from a wide variety of development tools from third party tool suppliers.

497-6048-ND	(STM3210B-EVAL)	**$239.20**

NEW! STM3210E-EVAL Evaluation Boards

The STM32 evaluation boards provide complete development platforms for the STM32F10xB (128K) and STM32F10xE (512K) series of ARM®Cortex™-M3 core-based microcontrollers. They provide cost effective, flexible and open design solutions ideal for demonstrating device capabilities and rapidly evaluating features and peripherals. They include an STM32 microcontroller with high performance ARM®Cortex™-M3, full speed USB 2.0 interface, CAN 2.0A/B compliant interface, I2C, SPI, USART with smart card support and internal SRAM and Flash memory.
The evaluation boards include a complete range of hardware features for evaluating microcontroller performance and starting development of a wide range of applications. Features include MicroSD card, serial Flash, USB, CAN, I2C, RS232, IrDA, induction motor control connector, TFT color LCD, audio play/record circuit. For the STM32F10xE, the board also includes a wide range of external memory.
The boards feature industry standard JTAG connector allowing developers to choose from a wide choice of development tools from third-party tool suppliers. In addition, the STM32F10xE board includes a high density 20-pin connector so that users can take advantage of tools offering runtime trace.

497-6438-ND	(STM3210E-EVAL)	**$292.25**

Development Tools

STM3210B-PRIMER is a complete, ultra low cost kit for evaluation and application development.
STM32103B-D/RAIS is a daughter card that converts the STM3210B-SK/RAIS to the Performance line.

497-6049-ND	(STM3210B-PRIMER)	**$50.75**
497-6047-ND	(ST32103B-D/RAIS)	**$124.25**

(Continued)

STM3210B Starter Kits

STM3210B Starter kits are complete sets of hardware and software designed to help users discover device features and start application development easily.

STM3210B-SK/HIT Hitex Kit — STM32 starter kit with HiTOP5 development software, GNU C/C++ compiler, debugger and USB stick with STM32 device, evaluation features and integrated in-circuit debugging/programming capabilities. Extension boards allow evaluation of additional device features.

STM3210B-SK/IAR IAR Kickstart Kit™ for STM32 with IAR Embedded Workbench for ARM (EWARM – 32K code-size limited edition), IAR C/C++ compiler, IAR J-Link (USB/JTAG) in-circuit debugger/programmer and evaluation board for STM32.

STM3210B-SK/KEIL Keil Starter Kit for STM32 with RealView Microcontroller Development Kit for ARM (16K code-size limited version) with ARM C/C++ compiler, ULINK (USB/JTAG) in-circuit debugger/programmer and evaluation board for STM32.

STM3210B-SK/Raisonance REva Starter Kit for STM32 with RIDE (32K code-size limited version for Cortex core), GNU C/C++ compiler, debugger, RLink (USB/JTAG) in-circuit debugger/programmer, demonstration motherboard and daughterboard with STM32 target device.

497-6050-ND	(STM3210B-SK/HIT)	**$154.00**
497-6051-ND	(STM3210B-SK/IAR)	**$334.25**
497-6052-ND	(STM3210B-SK/KEIL)	**$253.75**
497-6053-ND	(STM3210B-SK/RAIS)	**$292.25**

STM32 Cortex™ Microcontrollers and Tools

The STM32 family of 32-bit Flash microcontrollers is based on the breakthrough ARM®Cortex™-M3 core, which is specifically developed for embedded applications requiring a combination of high performance, low power and low cost. The STM32 family benefits from the Cortex ™-M3 architectural enhancements (including the Thumb-2® instruction set) that deliver improved performance combined with better code density, and a tightly coupled nested vectored interrupt controller that significantly speeds response to interrupts, all combined with industry-leading power consumption.

Program (KBytes)	RAM (KBytes)	No. of Timers	I/O Ports	Supply Voltage	Package	Temperature Range (°C)	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
32	6	2	32	2 ~ 3.6	48-LQFP	-40 ~ 85	497-6054-ND	6.18	5.39	4.01	STM32F101C6T6
32	6	3	49	2 ~ 3.6	64-LQFP	-40 ~ 85	497-6057-ND	6.64	5.79	4.31	STM32F101R6T6
32	10	2	32	2 ~ 3.6	48-LQFP	-40 ~ 105	497-6062-ND	6.35	5.80	4.59	STM32F103C6T6
32	10	2	49	2 ~ 3.6	64-LQFP	-40 ~ 105	497-6064-ND	5.99	5.22	3.89	STM32F103R6T6
64	10	3	32	2 ~ 3.6	48-LQFP	-40 ~ 85	497-6055-ND	6.07	5.55	4.39	STM32F101C8T6
64	10	3	49	2 ~ 3.6	64-LQFP	-40 ~ 85	497-6058-ND	6.53	5.97	4.72	STM32F101R8T6
64	10	3	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-6060-ND	7.48	6.83	5.40	STM32F101V8T6
64	20	3	32	2 ~ 3.6	48-LQFP	-40 ~ 105	497-6063-ND	7.48	6.83	5.40	STM32F103C8T6
64	20	3	49	2 ~ 3.6	64-LQFP	-40 ~ 105	497-6065-ND	8.03	7.33	5.80	STM32F103R8T6
64	20	3	80	2 ~ 3.6	100-LFBGA	-40 ~ 105	497-6067-ND	9.02	8.24	6.51	STM32F103V8H6
64	20	3	80	2 ~ 3.6	100-LQFP	-40 ~ 105	497-6068-ND	9.02	8.24	6.51	STM32F103V8T6
128	16	3	49	2 ~ 3.6	64-LQFP	-40 ~ 85	497-6059-ND	7.84	7.17	5.67	STM32F101RBT6
128	16	3	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-6061-ND	8.79	8.03	6.35	STM32F101VBT6
128	20	3	49	2 ~ 3.6	64-LQFP	-40 ~ 105	497-6066-ND	9.34	8.53	6.74	STM32F103RBT6
128	20	3	80	2 ~ 3.6	100-LFBGA	-40 ~ 105	497-6069-ND	10.42	9.52	7.52	STM32F103VBH6
128	20	3	80	2 ~ 3.6	100-LQFP	-40 ~ 105	497-6070-ND	10.42	9.52	7.52	STM32F103VBT6
512	48	4	112	2 ~ 3.6	144-LQFP	-40 ~ 85	497-6439-ND ***NEW!***	14.32	10.74	9.53	STM32F101ZET6
512	48	4	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-6440-ND ***NEW!***	13.12	12.14	9.19	STM32F101VET6
512	48	4	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-6441-ND ***NEW!***	12.34	11.42	8.64	STM32F101RET6
512	64	4	112	2 ~ 3.6	144-LQFP	-40 ~ 85	497-6442-ND ***NEW!***	16.16	14.95	11.32	STM32F103ZET6
512	64	4	80	2 ~ 3.6	100-LQFP	-40 ~ 85	497-6443-ND ***NEW!***	14.98	13.86	10.49	STM32F103VET6
512	64	4	51	2 ~ 3.6	64-LQFP	-40 ~ 85	497-6444-ND ***NEW!***	14.04	12.99	9.83	STM32F103RET6

SofTec MICROSYSTEMS
Development Tools for the Embedded World

inDART Series and Starter Kits

inDART SERIES: They are a powerful entry-level tool for Freescale Semiconductor, Inc. (Formerly Motorola SPS) MCU-based systems. InDART takes advantage of Metroworks CodeWarrior Integrated Development environment and the ISP (In-System Programming) feature to program the flash memory of the Freescale family of MCUs. InDART provides you with everything you need to download (program), in-circuit emulate and debug end-user code. Full speed program execution allows hardware and software testing in real-time. **Features:** • Low cost and easy to use • ISP/ICP programming • USB interface • In-circuit debugging **Kit Includes:** • inDART board and demo board with prototyping area • USB Cable • Software CodeWarrior CD and Softec System CD • Getting started guide

STARTER KITS: These starter kits are entry-level tools which allow you to get familiar with the different Freescale Semiconductor, Inc. (formerly Motorola SPS) microcontrollers. These kits along with the included CodeWarrior software allow for easy write, compile, download, in-circuit emulation and debug of user code. Includes a prototyping area to develop your own small applications. **Features:** • Low cost and easy to use kits • Full-speed program execution for hardware and software testing • In-circuit debug and emulation • Serial interface **Kit Includes:** • Evaluation board with prototyping area • Starter guide • Serial cable

APPLICATION KIT: Integrated system designed to provide the user with a complete, embedded Ethernet application. **Features:** • MC9S12NE64 microcontroller • 10/100 BaseT • 8Mbit serial FLASH memory • 4Kbit serial EEPROM • BDM connector for in-circuit debugging • RS-232 connector with transceiver • 8 user LEDs • LAN status LEDs • Speaker • Temperature Sensor • 12VDC Motor with MC33887 H-bridge driver • Prototype area **Kit Includes:** • Evaluation Board • Ethernet core module • AC Adapter • Ethernet cross cable and a serial cable • "System Software" CD-ROM • CodeWarrior CD-ROM • User's Manual

Devices Supported	Digi-Key Part No.	Price Each	SofTec Part No.
	HC08		
MC68HC908xx, MC68HLC908xx	520-1000-ND	249.00	INDART-HC08/D
MC68HC908GPxx, MC68HC908GTxx	520-1001-ND	299.00	INDART-HC08/GP
MC68HC908GRxx, MC68HC908GZxx	520-1002-ND	299.00	INDART-HC08/GZ
MC68HC908GZ32, 48, 60	520-1003-ND	299.00	INDART-HC08/GZ64
MC68HC908JKxx	520-1004-ND	299.00	INDART-HC08/JK
MC68HC908JLxx	520-1005-ND	299.00	INDART-HC08/JL
MC68HC908QBxx, MC68HLC908QYxx	520-1006-ND	299.00	INDART-HC08/QY
MC68HC908APxx	520-1007-ND	299.00	INDART-HC08/AP
	HCS08		
MC9S08xx	520-1008-ND	249.00	INDART-HCS08/D
MC9S08GB60	520-1009-ND	299.00	INDART-HCS08/GB
MC9S08RG60	520-1029-ND	299.00	INDART-HCS08/RG60
	HCS12		
MC9S12xx	520-1010-ND	449.00	INDART-HCS12/D
MC9S12C32	520-1011-ND	499.00	INDART-HCS12/C32
MC9S12DP256	520-1012-ND	499.00	INDART-HCS12/DP256
MC9S12E128	520-1013-ND	499.00	INDART-HCS12/E128
	Starter Kits		
MC68HC908QY4	520-1028-ND	99.00	PK-HC08QY4
MC9S08GB60	520-1014-ND	99.00	PK-HCS08GB60
MC9S12XDP512	520-1032-ND	395.00	SK-S12XDP512-A
MC68HC908AB/AS/AZ	520-1033-ND	360.00	ZK-HC08AX-A
MC68HC908EY	520-1034-ND	395.00	ZK-HC08EY-A
MC68HC908LJ/LK	520-1035-ND	360.00	ZK-HC08LX-A
HCS12	520-1036-ND	650.00	ZK-S12-A
HCS12	520-1037-ND	395.00	ZK-S12-B
	Application Kit		
MC9S12NE64	520-1027-ND	449.00	AK-S12NE64-A
	Universal Programmer/Debugger – RoHS Compliant		
HC08, S08, RS08, S12, S12X	520-1038-ND	399.00	INDART-ONE/FSL

ST5 and ST7 Development Kits

The easy-to-use inDART series development kits are powerful entry-level tools for ST5 and ST7 based systems. These kits give you the ability to write, compile, download and in-circuit emulate and debug your code. Supports ISP (in-system programming) to program the flash on the target MCU. **Features:** • Low cost and easy to use • ISP/ICP programming • USB Interface • In-circuit debug **Kit Includes:** • inDART board, Demo board, Starter guide, CodeWarrior, STVD7 (ST Visual Debug) and DataBlaze software

Description	Digi-Key Part No.	Price Each	SofTec Part No.
ST52F Design Kit	520-1018-ND	299.00	INDART-STX/500
ST72F6 Design Kit	520-1019-ND	299.00	INDART-STX/264
ST72F321, F521 Design Kit	520-1020-ND	349.00	INDART-STX/521
ST7FLITE0 Design Kit	520-1021-ND	299.00	INDART-STX/LITE0
ST7FLITE1x, ST7FLITE2x Design Kit	520-1022-ND	299.00	INDART-STX/LITE2
ST72C1xx, 2xx Design Kit	520-1024-ND	249.00	INDART-ST72C254
ST72C3xx Design Kit	520-1025-ND	249.00	INDART-ST72C334

ST5 and ST7 Tools

INDART-STX/D: • Powerful tool for in-circuit programming/debugging • Large device support • USB interface

IPL-ST7: • This Dynamic Link Library includes all low-level functions that allow users to set up and perform commands and functions from the DataBlaze user interface within their own windows application

INDART-ST72C/SK: • Low cost solution for writing, compiling, downloading and in-circuit debugging user code • Full speed program execution allows for software and hardware testing in real-time
Kit Includes: • Evaluation board • STVD7 (ST Visual Debug) and DataBlaze software • Starter guide

PK-ST7FLITE2: Entry level tool which allows you to get started with the ST7FLITE2 MCU. **Features:** • Real-time code execution • In-circuit debugging • In-system programming and debugging • Demo area • Prototyping area
Kit Includes: • Evaluation board • USB cable • STVD7, CodeWarrior, and Cosmic C Software • "Quickstart" poster • User's manual

AK-ST7FMC: Demonstrates how effectively the ST7FMC of microcontrollers can be used in real-world motor control applications. **Kit Includes:** • Motor control board • BLDC Motor • In-Circuit debugger/programmer • Optoisolation board • Motor cable, power supply cable, USB cable, ISP Cables • "System Software" CD-ROM • "Quickstart" poster • User's manual

Description	Digi-Key Part No.	Price Each	SofTec Part No.
ST5/ST7 In-Circuit Debug Kit	520-1017-ND	249.00	INDART-STX/D
Programming Library for ST7	520-1026-ND	360.00	IPL-ST7
ST72C Starter Kit	520-1023-ND	149.00	INDART-ST72C/SK
ST7FLITE2 Starter Kit	520-1030-ND	99.00	PK-ST7FLITE2
ST7MC Application Kit	520-1031-ND	695.00	AK-ST7FMC

freescale semiconductor

Microcontrollers – 8 and 16 Bit

HC705 Family — 8-Bit

Features: • 68HC705 CPU with the addition of EPROM memory • Fully static design allowing operation down to DC • 8- bit accumulator • 8-bit index register • 16-bit stack pointer • On-chip oscillator • 16-bit timer with built in prescaler, or 15-bit MFT timer • COP watchdog protection • Low power STOP and WAIT modes • Available SPI, SCI, SIOP or CAN • Eight addressing modes

RAM (Bytes)	EEPROM (Bytes)	EPROM/ OTP (Bytes)	I/O	A/D	Timer	Serial	PWM	COP	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.		Price Each		Freescale Part No.
														1	25	100	
64	—	1.2K	10	—	MFT, RTI	—	—	Y	3.3, 5.0	4.0	-40 ~ 85	16-SOIC	MCHC705KJ1CDWE-ND◆	2.63	1.60	1.46	MCHC705KJ1CDWE
	—	1.2K	14	—	MFT, RTI	—	—	Y	3.3, 5.0	4.0	-40 ~ 85	20-DIP	MC68HC705J1ACPE-ND◆	3.40	2.39	2.19	MC68HC705J1ACPE
176	—	4.5K	21	4-Ch., 8-Bit	16-Bit, 1 IC, 1 OC	SIOP	—	Y	3.3, 5.0	2.1	-40 ~ 125	28-PDIP	MC705P6AMPE-ND◆	5.58	3.92	3.22	MC705P6AMPE
	—	4.5K	21	4-Ch., 8-Bit	16-Bit, 1 IC, 1 OC	SIOP	—	Y	3.3, 5.0	2.1	-40 ~ 85	28-DIP	MC705P6ACPE-ND◆	5.08	3.57	3.26	MC705P6ACPE
	—	4.5K	21	4-Ch., 8-Bit	16-Bit, 1 IC, 1 OC	SIOP	—	Y	3.3, 5.0	2.1	-40 ~ 85	28-SOIC	MC705P6ACDWE-ND◆	5.08	3.89	3.26	MC705P6ACDWE
	—	4.6K	21	4-Ch., 8-Bit	2-Ch.	SIOP	—	Y	3.3, 5.0	2.1	-40 ~ 85	28-SOIC	MC705P6AMDWE-ND◆	5.58	3.92	3.58	MC705P6AMDWE
192	—	4K	32	8-Ch., 8-Bit	8-Bit	SCI/SPI	—	—	3.0 - 5.5	2.1	-40 ~ 85	44-PQFP	MC705SR3CFBE-ND◆	13.90	11.64	10.46	MC705SR3CFBE
224	—	6.0K	22	4-Ch., 12-Bit	16-Bit	SIOP	—	Y	3.3, 5.0	2.1	-40 ~ 85	28-SOIC	MC68HC705JP7CDW-ND	5.94	4.25	3.86	MC68HC705JP7CDW
304	—	8.0K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	4.0	-40 ~ 85	40-DIP	MC705C8ACPE-ND◆	9.02	7.47	6.82	MC705C8ACPE
	—	8.0K	31	—	2-Ch.	SCI/SPI	—	Y	3.3, 5.0	2.1	-40 ~ 85	44-PLCC	MC68HC705C8ACFNE-ND◆	9.02	7.47	6.82	MC68HC705C8ACFNE
	—	8K + 8K	31	—	2-Ch.	SCI, SPI	—	Y	3.3, 5.0	2.1	-40 ~ 85	42-DIP	MC68HC705C8AB-ND	10.25	7.00	6.66	MC68HC705C8AB
352	—	16K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	2.1	-40 ~ 85	40-DIP	MC705C9ACPE-ND◆	10.19	9.35	8.53	MC705C9ACPE
	—	16K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	2.1	-40 ~ 85	44-PLCC	MC68HC705C9ACFN-ND	11.59	8.77	8.08	MC68HC705C9ACFN
	256	16K	32	8-Ch., 8-Bit	16-Bit, 2 IC, 2 OC	SCI	2-Ch., 8-Bit	Y	3.0 - 5.5	4.0	-40 ~ 85	52-PLCC	MC705B16NCFNERCT-ND◆§	15.38	11.63	10.73	MC705B16NCFNER
	256	16K	32	8-Ch., 8-Bit	16-Bit, 2 IC, 2 OC	SCI	2-Ch., 8-Bit	Y	3.0 - 5.5	4.0	-40 ~ 85	52-PLCC	MC705B16NCFNERTR-ND◆‡	4538.70/450			MC705B16NCFNER
	256	16K	32	8-Ch., 8-Bit	16-Bit, 2 IC, 2 OC	SCI	2-Ch., 8-Bit	Y	3.0 - 5.5	4.0	-40 ~ 105	52-PLCC	MCHC705B16NVFNE-ND◆	15.23	11.95	11.26	MCHC705B16NVFNE
512	496	16K	62	8-Ch., 16-Bit	4-Ch.	SCI	—	Y	5.0	4.0	-40 ~ 85	80-PQFP	MC68HC705L5FUE-ND◆	14.31	11.33	10.76	MC68HC705L5FUE
528	256	32K	32	8-Ch.	4-Ch.	SCI	2-Ch. 8-Bit	Y	3.0, 5.5	2.1	-40 ~ 85	52-PLCC	XC705B32CFNE-ND◆	21.17	16.61	15.65	XC705B32CFNE
	256	32K	32	8-Ch., 8-Bit	16-Bit	SCI, CAN	2-Ch., 8-Bit	Y	4.5 - 5.5	4.0	-40 ~ 125	64-PQFP	MC705X32MFUE4RCT-ND◆§	26.74	20.98	19.76	MC705X32MFUE4R

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

HC711 Family — 8-Bit

Features: • 68HC11 CPU with the addition of EPROM memory • Fully static design allowing operation down to DC • Two 8-bit accumulators • Two 16-bit index registers • 16-bit stack pointer • 16-bit timer with built in prescaler • COP watchdog protection • Low power STOP and WAIT modes • SPI, SCI • Six addressing modes (immediate, direct, extended, indexed, inherent, and relative) • 16/16 integer and fractional divides • 8 x 8 multiply

RAM (Bytes)	EEPROM (Bytes)	EPROM/OTP (Bytes)	Timer	I/O	A/D	Operating Volt. (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.		Price Each		Freescale Part No.
											1	25	100	
192	—	4K	16-Bit, RTI	32	—	5.0	3.0	-40 ~ 85	44-PLCC	MC68HC711D3CFNE2-ND◆	9.63	8.07	7.25	MC68HC711D3CFNE2
	—	4K	16-Bit, RTI	32	—	5.0	2.0	-40 ~ 105	44-PLCC	MC68HC711D3VFNE2-ND◆	10.11	8.47	7.61	MC68HC711D3VFNE2
	—	4K	16-Bit	32	—	5.0	2.0	-40 ~ 85	44-PLCC	MC711D3CFNE2RCT-ND◆§	9.84	7.45	6.87	MC711D3CFNE2R
	—	4K	16-Bit	32	—	5.0	2.0	-40 ~ 85	44-PLCC	MC711D3CFNE2RTR-ND◆‡	3707.55/450			MC711D3CFNE2R
512	512	16K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC711E9CFNE2RCT-ND◆§	16.51	12.49	11.51	MC711E9CFNE2R
	512	16K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC711E9CFNE2RTR-ND◆‡	6218.10/450			MC711E9CFNE2R
	512	12K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC68S711E9CFNE2-ND◆	17.92	16.45	15.01	MC68S711E9CFNE2
	512	12K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	3.0	-40 ~ 85	52-PLCC	MC68HC711E9CFNE3-ND◆	17.14	15.73	14.35	MC68HC711E9CFNE3
	512	32K	16-Bit	38	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	52-PLCC	MC68HC711E9CFNE2-ND◆	16.32	14.97	13.66	MC68HC711E9CFNE2
768	512	20K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC68711E20CFNE2-ND◆	23.32	21.41	19.53	MC68711E20CFNE2
	512	20K	8-Ch., 16-Bit	38	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	52-PLCC	MC68711E20CFNE4-ND◆	25.66	23.55	21.49	MC68711E20CFNE4
	640	24K	16-Bit, RTI	62	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	80-QFP	MC68HC711K4CFU4-ND	30.61	24.01	22.62	MC68HC711K4CFU4
	640	24K	8-Ch., 16-Bit	62	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	84-PLCC	MC711K4CFNE4-ND◆	26.93	24.58	22.08	MC711K4CFNE4

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

HC11 Family — 8-Bit

Features: • Fully static design allowing operation down to DC • Two 8-bit accumulators • Two 16-bit index registers • 16-bit stack pointer • 16-bit timer with built in prescaler • COP watchdog protection • Low power STOP and WAIT modes • SPI, SCI • Six addressing modes (immediate, direct, extended, indexed, inherent, and relative) • 16/16 integer and fractional divides • 8 x 8 multiply

RAM (Bytes)	EEPROM (Bytes)	PWM	Timer	I/O	A/D	Operating Volt. (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.		Price Each		Freescale Part No.
											1	25	100	
256	512	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	3.0	-40 ~ 125	52-PLCC	MC68HC11A1MFNE-ND◆	13.83	12.69	10.40	MC68HC11A1MFNE
	512	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	3.0	-40 ~ 125	52-PLCC	MC68HC11A1MFNERCT-ND◆§	14.08	10.65	9.82	MC68HC11A1MFNER
	512	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	3.0	-40 ~ 125	52-PLCC	MC68HC11A1MFNERTR-ND◆‡	5301.90/450			MC68HC11A1MFNER
512	512	See Timer	16-Bit, RIT, PWM	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC68HC11E1CFNE2-ND◆	10.03	8.40	7.55	MC68HC11E1CFNE2
768	640	2-Ch., 16-Bit	16-Bit, RTI, PWM	37	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	84-PLCC	MC68HC11K1CFNE4-ND◆	16.48	15.04	13.51	MC68HC11K1CFNE4
	640	4-Ch., 8-Bit	16-Bit, RTI, PWM	37	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	80-PQFP	MC68L11K1FUE2-ND◆	16.48	15.04	13.51	MC68L11K1FUE2
1K	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	68-PLCC	MCHC11F1CFNE2-ND◆	10.76	9.01	8.10	MCHC11F1CFNE2
	512	8-Ch., 8-Bit	16-Bit , RTI, PWM	30	8-Ch., 8-Bit	5.0	3.0	-40 ~ 85	68-PLCC	MCHC11F1CFNE3-ND◆	11.70	10.74	9.80	MCHC11F1CFNE3

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

(Continued)

M68HC908 Family — 8-Bit

The MC68HC08 Family is a low cost, high performance, Complex Instruction Set Computer (CISC) with a Von Neumann architecture. **Features:** • Enhanced HC05 Programming Model • Extensive loop control functions • 16 Addressing modes • 16-bit Index Register and Stack Pointer • Memory to memory data transfers • Object-code compatible with Freescale's 68HC05 architecture for easy migration • Designed to allow efficient, compact modular coding in assembly or C with full 16-bit Stack Pointer and stack relative addressing • Efficient instruction set with multiply and divide that is easy to learn and use **Memory:** • In-application, In-circuit Re-Programmable Flash Memory (1.5K to 16K Bytes) • 128 to 512 Bytes of random access memory (RAM) **Peripherals:** • Two/Four-Channel, 16-bit Timer with selectable input capture, output compare or pulse width modulation (PWM) • Internal Clock Oscillator reduces board space and system costs by eliminating external components • Flexible I/O allows direct drive of LED and other circuits to eliminate external drivers and help reduce system costs • System Protection features, including Watchdog Timer and On-chip Low Voltage Detect/Reset to help reduce cost and increase reliability

68HC908QT4 Demonstration Board (M68DEMO908QT4) This demo board enables you to use the included CodeWarrior Development Studio Special Edition to modify demo code or develop new code using ASM or C, then program the Flash, and debug in real time all with no additional hardware **Features:** • Battery-Powered 8-pin QT4 Device • LEDs for user feedback • Potentiometer for A/D Input • Push Buttons for user Input • Access to all I/O for user-provided prototyping • Software demo with application code utilizing the A/D, timers, and I/O

RAM (Bytes)	Flash (Bytes)	Timer	I/O	A/D	Operating Voltage (V)	Maximum Bus Frequency @5.0V (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
										1	25	100	
128	1.5K	2-Ch., 16-Bit	5	—	3.0 ~ 5.0	8.0	-40 ~ 85	8-DIP	MC68HC908QT1CPE-ND◆	1.79	1.09	.94	MC68HC908QT1CPE
		2-Ch., 16-Bit	5	—	3.0 ~ 5.0	8.0	-40 ~ 105	8-DIP	MC68HC908QT1VPE-ND◆	1.88	1.15	.99	MC68HC908QT1VPE
		2-Ch., 16-Bit	5	—	3.0 ~ 5.0	8.0	-40 ~ 85	8-SOIC	MCHC908QT1CDWE-ND◆	1.79	1.09	.94	MCHC908QT1CDWE
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-PDIP	MCL908QT1CDWERCT-ND◆§	2.17	1.32	1.14	MCL908QT1CDWER
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-PDIP	MCL908QT1CDWERTR-ND◆‡	2010.00/2,000			MCL908QT1CDWER
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	5.0	8.0	-40 ~ 125	8-SOIC	MCHC908QT1MDWE-ND◆	1.96	1.20	1.04	MCHC908QT1MDWE
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 105	8-SOIC	MCHC908QT1VDWE-ND◆	1.88	1.15	.99	MCHC908QT1VDWE
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-DIP	MC68HC908QT2CP-ND	2.43	1.48	1.28	MC68HC908QT2CP
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-DIP	MC68HC908QT2CPE-ND◆	2.14	1.30	1.13	MC68HC908QT2CPE
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.6	8.0	-40 ~ 85	8-DIP	MCHLC908QT2CPE-ND◆	2.43	1.48	1.28	MCHLC908QT2CPE
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	8-DIP	MC68HC908QT2MPE-ND◆	2.34	1.43	1.23	MC68HC908QT2MPE
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-SOIC	MCHC908QT2CDWE-ND◆	2.14	1.30	1.13	MCHC908QT2CDWE
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	5.0	8.0	-40 ~ 105	8-SOIC	MCHC908QT2VDWE-ND◆	2.22	1.36	1.17	MCHC908QT2VDWE
		2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8.0	-40 ~ 85	16-DIP	MC68HC908QY1CPE-ND◆	2.02	1.23	1.07	MC68HC908QY1CPE
		2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8.0	-40 ~ 105	16-DIP	MC68HC908QY1VPE-ND◆	2.11	1.29	1.11	MC68HC908QY1VPE
		2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8.0	-40 ~ 85	16-SOIC	MCHC908QY1CDWE-ND◆	2.02	1.23	1.07	MCHC908QY1CDWE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8.0	-40 ~ 125	16-SOIC	MCHC908QY1MDWE-ND◆	2.22	1.36	1.17	MCHC908QY1MDWE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8.0	-40 ~ 105	16-SOIC	MCHC908QY1VDWE-ND◆	2.11	1.29	1.11	MCHC908QY1VDWE
		2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC68HC908QY1CDTE-ND◆	2.22	1.36	1.17	MC68HC908QY1CDTE
		2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8.0	-40 ~ 105	16-TSSOP	MC68HC908QY1VDTE-ND◆	2.34	1.43	1.23	MC68HC908QY1VDTE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-DIP	MC68HC908QY2CPE-ND◆	2.37	1.45	1.25	MC68HC908QY2CPE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-DIP	MC68HC908QY2MPE-ND◆	2.60	1.59	1.45	MC68HC908QY2MPE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 105	16-DIP	MC68HC908QY2VPE-ND◆	2.48	1.52	1.31	MC68HC908QY2VPE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-SOIC	MCHC908QY2CDWE-ND◆	2.37	1.45	1.25	MCHC908QY2CDWE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-PDIP	MCL908QY2CDWE-ND◆	2.69	1.64	1.41	MCL908QY2CDWE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8.0	-40 ~ 125	16-SOIC	MCHC908QY2MDWE-ND◆	2.60	1.59	1.37	MCHC908QY2MDWE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC68HC908QY2CDT-ND	2.86	1.74	1.51	MC68HC908QY2CDT
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC68HC908QY2CDTE-ND◆	2.51	1.53	1.32	MC68HC908QY2CDTE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-PDIP	MCL908QY2CDTE-ND◆	2.86	1.74	1.51	MCL908QY2CDTE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-TSSOP	MC68HC908QY2MDTE-ND◆	2.77	1.69	1.46	MC68HC908QY2MDTE
	4K	2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-PDSO	MC908QL3CDWE-ND◆	3.95	2.40	2.29	MC908QL3CDWE
		2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-TSSOP	MC908QL3MDTE-ND◆	4.58	3.22	2.65	MC908QL3MDTE
		2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 105	16-TSSOP	MC908QL3VDTE-ND◆	4.35	2.64	2.52	MC908QL3VDTE
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-DIP	MC68HC908QT4CPE-ND◆	2.51	1.53	1.32	MC68HC908QT4CPE
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.6	8.0	-40 ~ 85	8-DIP	MCHLC908QT4CPE-ND◆	2.86	1.74	1.51	MCHLC908QT4CPE
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-SOIC	MCHC908QT4CDWE-ND◆	2.51	1.53	1.32	MCHC908QT4CDWE
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	5.0	8.0	-40 ~ 125	8-SOIC	MCHC908QT4MDWE-ND◆	2.77	1.69	1.46	MCHC908QT4MDWE
		2-Ch., 16-Bit	5	4-Ch., 8-Bit	5.0	8.0	-40 ~ 105	8-SOIC	MCHC908QT4VDWE-ND◆	2.66	1.62	1.40	MCHC908QT4VDWE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-DIP	MC68HC908QY4CPE-ND◆	2.65	1.70	1.54	MC68HC908QY4CPE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-DIP	MC68HC908QY4MPE-ND◆	2.93	1.88	1.70	MC68HC908QY4MPE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 105	16-DIP	MC68HC908QY4VPE-ND◆	2.80	1.80	1.63	MC68HC908QY4VPE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-SOIC	MCHC908QY4CDWE-ND◆	2.65	1.70	1.54	MCHC908QY4CDWE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8.0	-40 ~ 125	16-SOIC	MCHC908QY4MDWE-ND◆	2.93	1.88	1.70	MCHC908QY4MDWE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-PDIP	MC908QY4MDWERCT-ND◆§	3.10	1.99	1.80	MC908QY4MDWER
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-PDIP	MC908QY4MDWERTR-ND◆‡	1610.00/1,000			MC908QY4MDWER
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC68HC908QY4CDTE-ND◆	2.93	2.06	1.70	MC68HC908QY4CDTE
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	2.2, 3.6	2.0	0 ~ 70	32-LQFP	MC908QF4FJ-ND	5.48	3.32	3.18	MC908QF4FJ
		2-Ch., 16-Bit	13	4-Ch., 8-Bit	2.2, 3.6	2.0	-40 ~ 85	32-LQFP	MC908QF4CFJ-ND	5.73	3.48	3.32	MC908QF4CFJ
		2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.3 ~ 5.0	8.0	-40 ~ 125	16-SOIC	MC908QL4MDW-ND	5.48	3.32	3.18	MC908QL4MDW
		2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-SOIC	MC908QL4MDWE-ND◆	4.83	3.40	2.80	MC908QL4MDWE
		2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.3 ~ 5.0	8.0	-40 ~ 125	16-TSSOP	MC908QL4MDT-ND	5.75	3.49	3.34	MC908QL4MDT
		2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.0 ~ 5.5	8.0	-40 ~ 125	16-TSSOP	MC908QL4MDTE-ND◆	5.05	3.24	2.93	MC908QL4MDTE
		4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC908QB4CDTE-ND◆	2.63	1.85	1.69	MC908QB4CDTE
		4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-SOIC	MC908QB4CDWE-ND◆	2.83	1.73	1.58	MC908QB4CDWE
		4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-DIP	MC908QB4CPE-ND◆	2.83	1.73	1.58	MC908QB4CPE
		4-Ch., 16-Bit	14	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 125	16-TSSOP	MC908QB4MDTE-ND◆	2.63	2.02	1.85	MC908QB4MDTE
		2-Ch., 16-Bit	14	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC68HC908QY4MDTE-ND◆	3.20	2.06	1.86	MC68HC908QY4MDTE
		2-Ch., 16-Bit	14	4-Ch., 8-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC68HC908QY4VDTE-ND◆	3.08	1.98	1.79	MC68HC908QY4VDTE
256	8K	4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC908QB8CDTE-ND◆	2.95	2.08	1.90	MC908QB8CDTE
		4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-SOIC	MC908QB8CDWE-ND◆	2.78	1.96	1.78	MC908QB8CDWE
		4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-DIP	MC908QB8CPE-ND◆	2.78	1.96	1.78	MC908QB8CPE
		4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-PDSO	MC908QB8CDWERCT-ND◆§	2.93	1.88	1.76	MC908QB8CDWER
		4-Ch., 16-Bit	13	10-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-PDSO	MC908QB8CDWERTR-ND◆‡	1685.00/1,000			MC908QB8CDWER
512	12K	2-Ch., 16-Bit	32	6-Ch., 10-Bit	3.3 ~ 5.0	8.0	-40 ~ 85	64-QFP	MC908LJ12CFUE-ND◆	6.64	5.50	5.02	MC908LJ12CFUE
	16K	2-Ch., 16-Bit	23	12-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	28-SOIC	MC908JL16CDWE-ND◆	3.55	2.28	2.06	MC908JL16CDWE
		2-Ch., 16-Bit	23	12 Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	28-DIP	MC908JL16CPE-ND◆	3.78	2.29	2.19	MC908JL16CPE
		2-Ch., 16-Bit	26	13 Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908JL16CFJE-ND◆	2.80	2.57	2.35	MC908JL16CFJE
		2-Ch., 16-Bit	26	13-Ch., 10-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	32-DIP	MC908JL16CSPE-ND◆	3.90	2.75	2.51	MC908JL16CSPE
		4-Ch., 16-Bit	14	10-Ch., 10-Bit	3.3 ~ 5.5	8.0	-40 ~ 85	16-SOIC	MC908QC16CDXE-ND◆	3.58	2.52	2.30	MC908QC16CDXE
Accessories													
Demo Board for 908Q MCU 68HC08 Series									M68DEMO908QT4-ND	32.94	28.43	25.02	M68DEMO908QT4
Demo Board for MC908JL16									DEMO908JL16-ND	56.53	—	—	DEMO908JL16
Demo Board for MC908JL16									DEMO908JL16E-ND◆	56.53	—	—	DEMO908JL16E
Demo Board for MC908QC16									DEMO908QC16-ND	85.28	—	—	DEMO908QC16
Evaluation Board for MC908QL4									M68EVB908QL4-ND	338.48	287.71	253.86	M68EVB908QL4
Evaluation Board for 908QF4									SCEB08QF4-ND	96.65	82.75	78.23	SCEB08QF4

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel *(Continued)*

HC908 Family — 8-Bit

Features: • 68HC08 CPU with Flash memory • Fully upward code compatible with the 68HC05 family for easy migration • Fully static design allowing operation down to DC • 16-bit index register • 16-bit stack pointer • 1, 2, 4 or 6 channel 16-bit timers with built in prescalers • COP watchdog protection • Low-power STOP and WAIT modes • Available USB, SPI, SCI, CAN2, I^{2}C and ESCI • Available A/D converter • 16 addressing modes • LVI (Low Voltage Inhibit) supply voltage monitor • 16/8 divide • 8 x 8 multiply • 68HC908AZ additional feature: MSCAN (Motorola Scalable Controller Area Network) interface conforms to CAN 2.0B

FLASH (Bytes)	RAM (Bytes)	EEPROM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	PWM	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
													1	25	100	
1.5K	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	20-SOIC	MC908JK1ECDWE-ND◆	2.71	1.66	1.51	MC908JK1ECDWE
		—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0 ~ 5.0	8.0	-40 ~ 125	20-SOIC	MC908JK1EMDWE-ND◆	2.60	1.83	1.58	MC908JK1EMDWE
		—	6	—	2-Ch.	SPI	—	3.0 ~ 5.0	8.0	-40 ~ 85	8-SOIC	MC908QT1ACDWE-ND◆	1.79	1.09	.94	MC908QT1ACDWE
		—	6	—	2-Ch.	SPI	—	3.0 ~ 5.0	8.0	-40 ~ 85	8-DFN	MC908QT1ACFQE-ND◆	2.31	1.41	1.22	MC908QT1ACFQE
		—	6	—	2-Ch.	SPI	—	3.0 ~ 5.0	8.0	-40 ~ 85	8-DIP	MC908QT1ACPE-ND◆	1.79	1.09	.94	MC908QT1ACPE
		—	6	6-Ch., 10-Bit	2-Ch.	SPI	—	3.0 ~ 5.0	8.0	-40 ~ 85	8-SOIC	MC908QT2ACDWE-ND◆	2.14	1.30	1.13	MC908QT2ACDWE
		—	6	6-Ch., 10-Bit	2-Ch.	SPI	—	3.0 ~ 5.0	8.0	-40 ~ 85	8-DFN	MC908QT2ACFQE-ND◆	2.40	1.46	1.26	MC908QT2ACFQE
		—	6	6-Ch., 10-Bit	2-Ch.	SPI	—	3.0 ~ 5.0	8.0	-40 ~ 85	8-DIP	MC908QT2ACPE-ND◆	2.14	1.30	1.13	MC908QT2ACPE
		—	16	—	1-Ch.	SPI	—	2.7 ~ 5.5	8.2	-40 ~ 85	16-TSSOP	MC908QY1ACDTE-ND◆	2.22	1.36	1.17	MC908QY1ACDTE
		—	16	—	1-Ch.	SPI	—	2.7 ~ 5.5	8.2	-40 ~ 85	16-SOIC	MC908QY1ACDWE-ND◆	2.02	1.23	1.07	MC908QY1ACDWE
		—	16	—	1-Ch.	SPI	—	2.7 ~ 5.5	8.2	-40 ~ 85	16-DIP	MC908QY1ACPE-ND◆	2.02	1.23	1.07	MC908QY1ACPE
		—	14	6-Ch., 10-Bit	1-Ch.	SPI	—	2.7 ~ 5.5	8.2	-40 ~ 85	16-TSSOP	MC908QY2ACDTE-ND◆	2.51	1.53	1.32	MC908QY2ACDTE
		—	14	6-Ch., 10-Bit	1-Ch.	SPI	—	2.7 ~ 5.5	8.2	-40 ~ 85	16-SOIC	MC908QY2ACDWE-ND◆	2.37	1.45	1.25	MC908QY2ACDWE
		—	14	6-Ch., 10-Bit	1-Ch.	SPI	—	2.7 ~ 5.5	8.2	-40 ~ 85	16-DIP	MC908QY2ACPE-ND◆	2.37	1.45	1.25	MC908QY2ACPE
2K	128	—	12	—	2-Ch.	—	See Timer	2.0	4.0	-40 ~ 85	32-LQFP	MC68HC908RF2MFA-ND	6.88	4.92	4.47	MC68HC908RF2MFA
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	16-SOIC	MC908KX2CDWE-ND◆	4.30	2.61	2.50	MC908KX2CDWE
		—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 125	16-SOIC	MC908KX2MDWE-ND◆	4.73	2.87	2.74	MC908KX2MDWE
		—	13	4-Ch., 8-Bit	1-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 125	16-PDSO	MC908KX2MDWERCT-ND◆§	4.90	2.98	2.84	MC908KX2MDWER
		—	13	4-Ch., 8-Bit	1-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 125	16-PDSO	MC908KX2MDWERTR-ND◆‡	2544.00/1,000			MC908KX2MDWER
4K	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	20-SOIC	MC908JK3ECDWE-ND◆	2.37	2.18	1.99	MC908JK3ECDWE
		—	23	12-Ch., 8-Bit	2-Ch.	—	16-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	28-SOIC	MC908JL3ECDWE-ND◆	3.95	2.78	2.54	MC908JL3ECDWE
		—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	5.0	8.0	-40 ~ 85	20-DIP	MCHC908JK3ECPE-ND◆	3.10	2.18	1.99	MCHC908JK3ECPE
		—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	20-DIP	MCR908JK3ECPE-ND◆	3.10	2.18	1.99	MCR908JK3ECPE
		—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0	8.0	-40 ~ 85	28-DIP	MC908JL3ECPE-ND◆	3.95	2.78	2.54	MC908JL3ECPE
		—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908JL3ECFAE-ND◆	4.23	2.57	2.45	MC908JL3ECFAE
		—	6	6-Ch., 10-Bit	2-Ch.	SPI	—	3.0 ~ 5.0	8.0	-40 ~ 85	8-SOIC	MC908QT4ACDWE-ND◆	2.51	1.53	1.32	MC908QT4ACDWE
		—	6	6-Ch., 10-Bit	2-Ch.	SPI	—	3.0 ~ 5.0	8.2	-40 ~ 85	8-DFN	MC908QT4ACFQE-ND◆	2.77	1.69	1.46	MC908QT4ACFQE
		—	6	6-Ch., 10-Bit	2-Ch.	SPI	—	3.0 ~ 5.0	8.2	-40 ~ 85	8-DIP	MC908QT4ACPE-ND◆	2.51	1.53	1.32	MC908QT4ACPE
		—	14	6-Ch., 10-Bit	1-Ch.	SPI	—	2.7 ~ 5.5	8.2	-40 ~ 85	16-TSSOP	MC908QY4ACDTE-ND◆	2.93	1.88	1.70	MC908QY4ACDTE
		—	14	6-Ch., 10-Bit	1-Ch.	SPI	—	2.7 ~ 5.5	8.2	-40 ~ 85	16-SOIC	MC908QY4ACDWE-ND◆	2.65	1.70	1.54	MC908QY4ACDWE
		—	14	6-Ch., 10-Bit	1-Ch.	SPI	—	2.7 ~ 5.5	8.2	-40 ~ 85	16-DIP	MC908QY4ACPE-ND◆	2.65	1.70	1.54	MC908QY4ACPE
	256	—	26	—	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	28-DIP	MC908KK3ECPE-ND◆	2.90	1.86	1.68	MC908KK3ECPE
		—	26	12-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	28-SOIC	MC908KL3ECDWE-ND◆	3.70	2.38	2.15	MC908KL3ECDWE
	384	—	21	6-Ch., 8-Bit	3-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.2	-40 ~ 85	32-LQFP	MC68HC908GR4CFAE-ND◆	4.95	3.01	2.87	MC68HC908GR4CFAE
		—	21	6-Ch., 8-Bit	3-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	28-SOIC	MC908GR4CDWE-ND◆	4.95	3.01	2.87	MC908GR4CDWE
7.5K	384	—	21	8-Ch., 8-Bit	2-Ch. + 1-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MCHC908GR8CFAE-ND◆	6.18	5.12	4.01	MCHC908GR8CFAE
8K	128	—	18	7-Ch., 8-Bit	2-Ch.	—	See Timer	5.0	8.0	-40 ~ 85	20-SOIC	MC68HC908LB8CDWE-ND◆	6.13	3.72	3.55	MC68HC908LB8CDWE
		—	18	7-Ch., 8-Bit	2-Ch.	—	See Timer	5.0	8.0	-40 ~ 125	20-DIP	MC68HC908LB8MPE-ND◆	5.73	4.10	3.73	MC68HC908LB8MPE
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	16-SOIC	MC908KX8CDWE-ND◆	5.95	3.82	3.45	MC908KX8CDWE
		—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	5.0	8.0	-40 ~ 125	16-SOIC	MC908KX8MDWE-ND◆	5.60	4.64	3.64	MC908KX8MDWE
	256	—	21	—	2-Ch.	USB1.1	See Timer	5.0	3.0	-40 ~ 85	28-SOIC	MC908JB8ADWE-ND◆	2.78	1.96	1.78	MC908JB8ADWE
		—	37	—	2-Ch.	USB1.1	See Timer	5.0	3.0	-40 ~ 85	44-QFP	MC908JB8FBE-ND◆	3.20	2.25	2.06	MC908JB8FBE
		—	13	—	1-Ch.	USB1.1	See Timer	5.0	3.0	-40 ~ 85	20-SOIC	MC908JB8JDWE-ND◆	2.75	1.94	1.77	MC908JB8JDWE
		—	37	—	2-Ch.	USB1.1	See Timer	4.0 ~ 5.5	6.0	-40 ~ 85	20-DIP	MC68HC908JB8JPE-ND◆	2.83	1.99	1.82	MC68HC908JB8JPE
		—	15	10-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	20-SOIC	MC908JK8CDWE-ND◆	5.15	3.62	3.31	MC908JK8CDWE
		—	15	10-Ch., 8-Bit	2-Ch.	SCI	16	3.0	8.0	-40 ~ 85	28-DIP	MCHC908JK8CPE-ND◆	5.15	3.62	3.31	MCHC908JK8CPE
		—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	28-SOIC	MC908JL8CDWE-ND◆	5.53	4.24	3.21	MC908JL8CDWE
		—	23	10-Ch., 8-Bit	2-Ch.	SCI	2-Ch., 16-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	28-SOIC	MC9085JL8CDWERCT-ND◆§	4.82	3.99	3.64	MC908JL8CDWER
		—	23	10-Ch., 8-Bit	2-Ch.	SCI	2-Ch., 16-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	28-SOIC	MC908JL8CDWERTR-ND◆‡	3287.00/1,000			MC908JL8CDWER
		—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC68HC908JL8CFA-ND	6.86	4.90	4.46	MC68HC908JL8CFA
		—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC68HC908JL8CFAE-ND◆	6.05	4.26	3.67	MC68HC908JL8CFAE
		—	26	13-Ch., 8-Bit	2-Ch.	SCI	16	3.0 ~ 5.0	8.0	-40 ~ 125	32-LQFP	MC68HC908JL8MFAE-ND◆	5.65	4.68	4.04	MC68HC908JL8MFAE
		—	26	—	2-Ch.	SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908EY8CFAE-ND◆	5.31	3.79	3.45	MC908EY8CFAE
		—	26	—	2-Ch.	SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 125	32-LQFP	MC908EY8MFAE-ND◆	5.84	4.17	3.79	MC908EY8MFAE
		—	24	8-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	4.5 ~ 5.5	8.0	-40 ~ 105	32-LQFP	MC908EY8AVFJE-ND◆	4.93	3.47	3.16	MC908EY8AVFJE
		—	12	7-Ch., 10-Bit	2-Ch.	SCI	6-Ch., 12-Bit	5.0	8.0	-40 ~ 85	28-SOIC	MC908MR8CDWE-ND◆	5.73	4.75	4.33	MC908MR8CDWE
		—	12	7-Ch., 10-Bit	2-Ch.	SCI	6-Ch., 12-Bit	5.0	8.0	-40 ~ 85	28-DIP	MC908MR8CPE-ND◆	5.73	4.75	4.33	MC908MR8CPE
		—	16	7-Ch., 10-Bit	2-Ch.	SCI	12	5.0	8.0	-40 ~ 125	32-LQFP	MCHC908MR8MFAE-ND◆	6.31	5.22	4.77	MCHC908MR8MFAE
		—	16	7-Ch., 10-Bit	2-Ch.	SCI	12	5.0	8.0	-40 ~ 105	32-LQFP	MCHC908MR8VFAE-ND◆	6.03	4.99	4.56	MCHC908MR8VFAE
		—	15	13-Ch., 8-Bit	Dual 2-Ch.	SCI	See Timer	5.0	8.0	-40 ~ 125	20-SOIC	MC908JK8MDWE-ND◆	5.68	3.99	3.64	MC908JK8MDWE
		—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	28-DIP	MC908JL8CPE-ND◆	5.53	3.89	3.55	MC908JL8CPE
		—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-DIP	MC68HC908JL8CSPE-ND◆	6.10	4.29	3.92	MC68HC908JL8CSPE
		—	14	4-Ch., 10-Bit	1-Ch.	SPI	2-Ch., 16-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	16-TSSOP	MC908QY8CDTE-ND◆	3.08	1.98	1.79	MC908QY8CDTE
		—	16	4-Ch., 10-Bit	2-Ch.	SPI	2-Ch., 16-Bit	2.7 ~ 5.5	8.0	-40 ~ 85	16-SOIC	MC908QY8CDWE-ND◆	2.88	1.85	1.67	MC908QY8CDWE
	384	—	21	8-Ch., 8-Bit	2-Ch. + 1-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	28-SOIC	MC908GR8CDWE-ND◆	6.16	4.40	4.00	MC908GR8CDWE
		—	21	6-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	28-DIP	MC908GR8CPE-ND◆	6.16	5.10	4.00	MC908GR8CPE

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel *(Continued)*

Microcontrollers – 8 and 16 Bit

HC908 Family — 8-Bit *(Cont.)*

FLASH (Bytes)	RAM (Bytes)	EEPROM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	PWM	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
													1	25	100	
8K	384	—	21	6-Ch., 8-Bit	2-Ch.	SCI, SPI	—	5.0	8.0	-40 ~ 85	32-LQFP	MCHC908GR8ACFAE-ND◆	6.16	4.40	4.00	MCHC908GR8ACFAE
		—	14	10-Ch., 10-Bit	4-Ch.	SCI, SPI	6-Ch., 16-Bit	3.3 ~ 5.5	8.0	-40 ~ 85	16-TSSOP	MC908QC8CDTE-ND◆	3.13	2.20	2.01	MC908QC8CDTE
		—	14	10-Ch., 10-Bit	4-Ch.	SCI, SPI	6-Ch., 16-Bit	3.3 ~ 5.5	8.0	-40 ~ 85	16-SOIC	MC908QC8CDXE-ND◆	3.10	2.18	1.99	MC908QC8CDXE
		—	18	10-Ch., 10-Bit	4-Ch.	SCI, SPI	6-Ch., 16-Bit	3.3 ~ 5.5	8.0	-40 ~ 85	20-SOIC	MC908QC8CDYE-ND◆	2.39	2.20	2.01	MC908QC8CDYE
		—	26	10-Ch., 10-Bit	4-Ch.	SCI, SPI	6-Ch., 16-Bit	3.3 ~ 5.5	8.0	-40 ~ 85	28-SOIC	MC908QC8CDZE-ND◆	3.15	2.22	2.02	MC908QC8CDZE
		—	26	10-Ch., 10-Bit	4-Ch.	SCI, SPI	6-Ch., 16-Bit	3.3 ~ 5.5	8.0	-40 ~ 125	28-TSSOP	MC908QC8MDRE-ND◆	3.50	2.46	2.25	MC908QC8MDRE
		—	18	10-Ch., 10-Bit	4-Ch.	SCI, SPI	6-Ch., 16-Bit	3.3 ~ 5.5	8.0	-40 ~ 125	20-TSSOP	MC908QC8MDSE-ND◆	3.48	2.45	2.23	MC908QC8MDSE
	512	—	36	8-Ch., 8-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	44-QFP	MC908GT8CFBE-ND◆	6.54	5.42	4.25	MC908GT8CFBE
	1K	—	30	8-Ch., 10-Bit	2-Ch.	SCI, SPI	—	3.0 ~ 5.0	8.0	-40 ~ 85	42-DIP	MC908AP8CBE-ND◆	5.50	4.22	3.19	MC908AP8CBE
		—	32	8-Ch., 10-Bit	Dual 2-Ch.	I^2C, 2-SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	44-QFP	MC908AP8CFBE-ND◆	5.50	4.22	3.19	MC908AP8CFBE-ND
		—	37	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI, CAN2	See Timer	5.0	8.0	-40 ~ 85	48-LQFP	MC68908GZ8CFAE-ND◆	5.73	4.75	4.33	MC68908GZ8CFAE
		—	37	8-Ch., 10-Bit	2-Ch.	SPI, CAN2	—	5.5	8.0	-40 ~ 85	32-LQFP	MC68908GZ8CFJE-ND◆	5.73	4.75	4.33	MC68908GZ8CFJE
		—	21	8-Ch., 10-Bit	2-Ch.	SPI	6-Ch.	3.0 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC68908GZ8CFJERCT-ND◆§	5.90	4.46	4.17	MC68908GZ8CFJER
		—	21	8-Ch., 10-Bit	2-Ch.	SPI	6-Ch.	3.0 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC68908GZ8CFJERTR-ND◆‡		8006.00/2,000		MC68908GZ8CFJER
	2K	—	39	6-Ch., 8-Bit	2-Ch.	USB, I^2C	See Timer	3.3	6.0	-40 ~ 85	64-QFP	MC908LD64IFUE-ND◆	9.81	8.12	7.41	MC908LD64IFUE
12K	384	—	21	—	2-Ch.	USB, SCI	See Timer	4.0 ~ 5.5	6.0	-40 ~ 85	28-SOIC	MC908JB12DWE-ND◆	4.13	2.65	2.39	MC908JB12DWE
		—	21	—	2-Ch.	USB, SCI	See Timer	4.0 ~ 5.5	6.0	-40 ~ 85	20-SOIC	MC908JB12JDWE-ND◆	4.55	2.92	2.64	MC908JB12JDWE
	512	—	30	11-Ch., 10-Bit	4-Ch.	I^2C, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	42-DIP	MC908SR12CBE-ND◆	7.47	5.34	4.86	MC908SR12CBE
		—	33	14-Ch., 10-Bit	4-Ch.	I^2C, SCI	See Timer	5.0	8.0	-40 ~ 85	48-LQFP	MC908SR12CFAE-ND◆	7.47	5.34	4.86	MC908SR12CFAE
		—	33	14-Ch., 10-Bit	4-Ch.	I^2C, SCI	See Timer	5.0	8.0	-40 ~ 125	48-LQFP	MC908SR12MFAE-ND◆	8.22	6.80	5.34	MC908SR12MFAE
		—	20	4-Ch., 10-Bit	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	52-QFP	MC68HC908LJ12CFB-ND	8.83	5.98	5.57	MC68HC908JL12CFB
		—	32	6-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	64-LQFP	MC908LJ12CPBE-ND◆	6.64	5.50	5.02	MC908LJ12CPBE
		—	32	6-Ch., 10-Bit	4-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	64-LQFP	MCL908LJ12CPBE-ND◆	6.64	5.02	4.51	MCL908LJ12CPBE
		—	32	6-Ch., 10-Bit	4-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	64-QFP	MC68HC98LJ12CFUE-ND◆	6.64	5.50	5.02	MC68HC98LJ12CFUE
16K	384	—	21	—	2-Ch.	USB, SCI	See Timer	4.0 ~ 5.5	6.0	-40 ~ 85	28-SOIC	MC908JB16DWE-ND◆	3.43	2.41	2.20	MC908JB16DWE
		—	21	—	2-Ch.	USB, SCI	See Timer	4.0 ~ 5.5	6.0	-40 ~ 85	32-LQFP	MC908JB16FAE-ND◆	2.64	2.43	2.22	MC908JB16FAE
		—	21	—	2-Ch.	USB, SCI	See Timer	4.0 ~ 5.5	6.0	-40 ~ 85	20-SOIC	MC908JB16JDWE-ND◆	3.40	2.39	2.19	MC908JB16JDWE
	512	—	24	8-Ch., 10-Bit	2-Ch.	ESCI, SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	32-LQFP	MC908EY16ACFJE-ND◆	6.28	5.21	4.75	MC908EY16ACFJE
		—	24	8-Ch., 10-Bit	2-Ch.	ESCI, SCI, SPI	See Timer	5.0	8.0	-40 ~ 125	32-LQFP	MC908EY16AMFJE-ND◆	6.92	5.73	5.23	MC908EY16AMFJE
		—	36	8-Ch., 8-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	42-DIP	MC908GT16CBE-ND◆	8.41	6.96	5.46	MC908GT16CBE
		—	36	8-Ch., 8-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	44-PQFP	MC908GT16CFBE-ND◆	8.41	6.96	5.46	MC908GT16CFBE
		—	26	13-Ch., 10-Bit	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908JL16CFJERCT-ND◆§	3.88	2.49	2.25	MC908JL16CFJER
		—	26	13-Ch., 10-Bit	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908JL16CFJERTR-ND◆‡		3894.00/2,000		MC908JL16CFJER
		—	14	10-Ch., 10-Bit	4-Ch.	SCI, SPI	6-Ch., 16-Bit	3.3 ~ 5.5	8.0	-40 ~ 85	16-TSSOP	MC908QC16CDTE-ND◆	3.65	2.57	2.35	MC908QC16CDTE
		—	18	10-Ch., 10-Bit	4-Ch.	SCI, SPI	6-Ch., 16-Bit	3.3 ~ 5.5	8.0	-40 ~ 85	20-SOIC	MC908QC16CDYE-ND◆	3.60	2.53	2.31	MC908QC16CDYE
		—	26	10-Ch., 10-Bit	4-Ch.	SCI, SPI	6-Ch., 16-Bit	3.3 ~ 5.5	8.0	-40 ~ 85	28-SOIC	MC908QC16CDZE-ND◆	3.68	2.59	2.36	MC908QC16CDZE
		—	26	10-Ch., 10-Bit	4-Ch.	SCI, SPI	6-Ch., 16-Bit	3.3 ~ 5.5	8.0	-40 ~ 125	28-TSSOP	MC908QC16MDRE-ND◆	4.13	2.90	2.65	MC908QC16MDRE
		—	18	10-Ch., 10-Bit	4-Ch.	SCI, SPI	6-Ch., 16-Bit	3.3 ~ 5.5	8.0	-40 ~ 125	20-TSSOP	MC908QC16MDSE-ND◆	4.05	2.85	2.60	MC908QC16MDSE
	768	—	44	10-Ch., 10-Bit	4-Ch. + 2-Ch.	SCI, SPI	See Timer 6-Ch., 12-Bit	5.0	8.0	-40 ~ 85	64-QFP	MC908MR16CFUE-ND◆	7.18	5.94	5.42	MC908MR16CFUE
		—	37	9-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	5.0	8.2	-40 ~ 85	56-DIP	MC908MR16CBE-ND◆	7.18	5.92	5.41	MC908MR16CBE
	1K	—	21	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC68908GR16CFJE-ND◆	7.47	5.10	4.86	MC68908GR16CFJE
		—	37	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908GR16ACFJE-ND◆	7.47	5.10	4.86	MC908GR16ACFJE
		—	37	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 125	48-LQFP	MC908GR16MFAE-ND◆	8.22	5.61	5.34	MC908GR16MFAE
		—	37	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908GR16CFAE-ND◆	7.47	6.19	5.65	MC908GR16CFAE
		—	37	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908GR16ACFAE-ND◆	7.47	6.19	5.65	MC908GR16ACFAE
		—	32	8-Ch., 10-Bit	Dual 2-Ch.	I^2C, 2-SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	44-QFP	MC908AP16CFBE-ND◆	6.05	4.26	3.51	MC908AP16CFBE
		—	30	8-Ch., 10-Bit	2-Ch.	I^2C, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	42-DIP	MC908AP16CBE-ND◆	6.05	4.26	3.51	MC908AP16CBE
		—	37	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	44-QFP	MC908GP16CFBE-ND◆	5.60	4.01	3.64	MC908GP16CFBE
		—	21	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC68908GZ16CFJE-ND◆	6.69	5.54	5.05	MC68908GZ16CFJE
		—	21	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908GZ16CFAE-ND◆	6.69	5.54	5.05	MC908GZ16CFAE
24K	768	—	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	3.3 ~ 8.0	8.0	-40 ~ 85	80-PQFP	MC908LJ24CFQE-ND◆	8.28	6.86	6.26	MC908LJ24CFQE
		—	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	3.3 ~ 7.0	8.0	-40 ~ 85	64-PQFP	MC908LJ24CFUE-ND◆	7.81	6.47	5.90	MC908LJ24CFUE
		—	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	3.3 ~ 6.0	8.0	-40 ~ 85	64-LQFP	MC908LJ24CPBE-ND◆	7.81	6.47	5.58	MC908LJ24CPBE
		—	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	80-PQFP	MC908LJ24CPKE-ND◆	7.81	6.47	5.30	MC908LJ24CPKE
		—	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	64-PQFP	MC908LK24CFUE-ND◆	7.32	6.04	5.52	MC908LK24CFUE
		—	40	6-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI, I^2C	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	64-LQFP	MC908LK24CPBE-ND◆	7.32	6.07	5.54	MC908LK24CPBE
		—	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	—	5.0	8.0	-40 ~ 85	80-PQFP	MCHC908LK24CFQE-ND◆	7.81	6.47	5.90	MCHC908LK24CFQE
32K	512	—	33	8-Ch., 8-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	44-QFP	MC908GP32CFBE-ND◆	10.28	8.51	7.76	MC908GP32CFBE
		—	30	8-Ch., 8-Bit	2-Ch.	SCI, SPI	8-Ch.	3.0 ~ 5.0	8.0	-40 ~ 85	40-DIP	MC908GP32CPE-ND◆	10.28	8.51	7.76	MC908GP32CPE
		—	33	8-Ch., 8-Bit	4-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.2	-40 ~ 85	44-QFP	MC908GP32CFBERCT-ND◆§	10.51	7.51	6.83	MC908GP32CFBER
		—	33	8-Ch., 8-Bit	4-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.2	-40 ~ 85	44-QFP	MC908GP32CFBERTR-ND◆‡		5628.15/750		MC908GP32CFBER
		—	31	8-Ch., 8-Bit	4-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	42-DIP	MC908GP32CBE-ND◆	10.28	7.76	6.97	MC908GP32CBE
	768	—	44	10-Ch., 10-Bit	4-Ch. + 2-Ch.	SCI, SPI	See Timer 6-Ch., 12-Bit	5.0	8.0	-40 ~ 85	64-QFP	MC908MR32CFUE-ND◆	9.64	7.98	7.28	MC908MR32CFUE
		—	36	10-Ch., 10-Bit	6-Ch.	SCI, SPI	6-Ch., 12-Bit	5.0	8.2	-40 ~ 85	56-DIP	MC908MR32CBE-ND◆	9.64	7.98	7.28	MC908MR32CBE
		—	36	10-Ch., 10-Bit	4-Ch. + 2-Ch.	SCI, SPI	See Timer	5.0	8.0	-40 ~ 105	56-PDIP	MC908MR32VBE-ND◆	10.11	7.64	6.86	MC908MR32VBE
	1K	512	40	15-Ch., 8-Bit	6-Ch.	J1850, SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	52-PLCC	MC908AS32ACFNE-ND◆	10.03	9.21	8.40	MC908AS32ACFNE
		512	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	64-QFP	MC908AB32CFUE-ND◆	10.03	7.95	7.00	MC908AB32CFUE
		512	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	64-QFP	MC908AB32CFUERCT-ND◆§	10.28	7.78	7.17	MC908AB32CFUER
		512	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	64-QFP	MC908AB32CFUERTR-ND◆‡		5799.60/750		MC908AB32CFUER
		512	50	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ32ACFUE-ND◆	9.47	7.84	7.15	MC908AZ32ACFUE
		512	50	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 125	64-QFP	MC908AZ32AMFUE-ND◆	10.42	8.63	7.88	MC908AZ32AMFUE
		—	29	—	2-Ch.	USB, SPI	See Timer	3.3 ~ 5.0	8.0	0 ~ 70	48-QFN	MCHC908JW32FC-ND◆	5.90	4.15	3.79	MCHC908JW32FC

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Microcontrollers – 8 and 16 Bit

HC908 Family — 8-Bit *(Cont.)*

FLASH (Bytes)	RAM (Bytes)	EEPROM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	PWM	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
													1	25	100	
32K	1.5K	—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	- 40 ~ 85	48-LQFP	MC908GR32ACFAE-ND◆	7.86	6.51	5.94	MC908GR32ACFAE
		—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908GR32ACFJE-ND◆	7.86	6.51	5.10	MC908GR32ACFJE
		—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	64-QFP	MC908GR32ACFUE-ND◆	8.13	5.55	5.28	MC908GR32ACFUE
		—	37	8-Ch., 10-Bit	2-Ch.	CAN, SPI	See Timer	3.6 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908GZ32CFAE-ND◆	7.18	5.94	5.42	MC908GZ32CFAE
		—	37	8-Ch., 10-Bit	2-Ch.	CAN, SPI	See Timer	3.6 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908GZ32CFJE-ND◆	7.18	5.94	5.42	MC908GZ32CFJE
		—	37	8-Ch., 10-Bit	2-Ch.	CAN, SPI	See Timer	3.6 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908GZ32CFUE-ND◆	7.41	6.14	5.60	MC908GZ32CFUE
	2K	—	30	8-Ch., 10-Bit	Dual 2-Ch.	I^2C, 2-SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	42-DIP	MC68HC908AP32CB-ND	7.43	5.31	4.83	MC68HC908AP32CB
		—	30	8-Ch., 10-Bit	2-Ch.	I^2C, 2-SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	42-DIP	MC908AP32CBE-ND◆	6.54	5.42	4.94	MC908AP32CBE
		—	32	8-Ch., 10-Bit	Dual 2-Ch.	I^2C, 2-SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	44-QFP	MC908AP32CFBE-ND◆	6.54	5.42	4.25	MC908AP32CFBE
		—	32	8-Ch., 10-Bit	2-Ch.	I^2C, SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	44-LQFP	MC908AP32CFAE-ND◆	6.54	5.42	4.25	MC908AP32CFAE
		—	32	8-Ch., 10-Bit	2-Ch.	I^2C, SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 125	64-QFP	MC908AB32MFUE-ND◆	11.03	8.35	7.69	MC908AB32MFUE
		—	32	8-Ch., 10-Bit	2-Ch.	I^2C, SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 105	64-QFP	MC908AB32VFUE-ND◆	10.51	7.95	7.33	MC908AB32VFUE
48K	1K	—	32	6-Ch., 8-Bit	2-Ch.	—	16-Ch., 8-Bit	5.0	6.0	-40 ~ 85	42-DIP	MC908BD48IBE-ND◆	5.90	4.89	4.46	MC908BD48IBE
	1.5K	—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908GR48ACFAE-ND◆	8.79	7.28	6.64	MC908GR48ACFAE
		—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908GR48ACFJE-ND◆	8.79	6.00	5.71	MC908GR48ACFJE
		—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	64-QFP	MC908GR48ACFUE-ND◆	9.07	7.51	5.89	MC908GR48ACFUE
		—	37	8-Ch., 10-Bit	2-Ch.	SCI, SPI, CAN	See Timer	3.6 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908GZ48CFAE-ND◆	7.96	6.59	6.02	MC908GZ48CFAE
		—	37	8-Ch., 10-Bit	2-Ch.	SCI, SPI, CAN	See Timer	3.6 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908GZ48CFUE-ND◆	8.19	6.79	5.86	MC908GZ48CFUE
60K	2K	1K	42	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	52-PLCC	MC908AS60ACFNE-ND◆	14.75	12.35	10.28	MC908AS60ACFNE
		1K	50	15-Ch., 8-Bit	6-Ch. + 2-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60ACFUE-ND◆	12.56	11.53	10.52	MC908AZ60ACFUE
		1K	50	15-Ch., 8-Bit	6-Ch. + 2-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 125	64-QFP	MC908AZ60AMFUE-ND◆	13.83	12.69	10.95	MC908AZ60AMFUE
		1K	52	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AS60ACFUE-ND◆	14.75	13.53	11.68	MC908AS60ACFUE
		—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908GR60ACFAE-ND◆	9.72	8.05	6.32	MC908GR60ACFAE
		—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908GR60ACFJE-ND◆	8.77	6.64	6.12	MC908GR60ACFJE
		—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	64-QFP	MC908GR60ACFUE-ND◆	9.06	6.85	6.32	MC908GR60ACFUE
		—	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908GZ60CFAE-ND◆	8.77	7.26	6.63	MC908GZ60CFAE
		—	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 125	48-LQFP	MC908GZ60MFAE-ND◆	9.64	7.98	7.28	MC908GZ60MFAE
		—	37	8-Ch., 10-Bit	2-Ch.	SCI, SPI, CAN	See Timer	3.6 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908GZ60CFJE-ND◆	8.77	7.26	6.63	MC908GZ60CFJE
		—	53	20-Ch., 10-Bit	2-Ch.	SCI, SPI, CAN	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	64-QFP	MC908GZ60CFUE-ND◆	8.16	7.49	6.83	MC908GZ60CFUE
		—	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC68HC908GZ60CFJ-ND	10.53	7.97	7.35	MC68HC908GZ60CFJ
		—	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	64-QFP	MC68HC908GZ60CFU-ND	10.88	8.23	7.59	MC68HC908GZ60CFU
		—	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 105	64-QFP	MC68HC908GZ60VFU-ND	11.39	8.62	7.95	MC68HC908GZ60VFU
		—	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60ACFUERCT-ND◆§	12.79	9.68	8.92	MC908AZ60ACFUER
		—	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60ACFUERTR-ND◆‡	7595.16/750			MC908AZ60ACFUER
61K	2K	1K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60AVFUR2CT-ND§	17.89	13.53	12.47	MC908AZ60AVFUR2
		1K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60AVFUR2TR-ND‡	8595.14/750			MC908AZ60AVFUR2
		1K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60AVFUE-ND◆	13.19	12.11	10.45	MC908AZ60AVFUE
64K	2K	—	30	8-Ch., 10-Bit	2-Ch.	I^2C, SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	42-DIP	MC908AP64CBE-ND◆	8.41	6.96	5.46	MC908AP64CBE
		—	32	8-Ch., 10-Bit	Dual 2-Ch.	I^2C, 2-SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	44-QFP	MC908AP64CFBE-ND◆	8.41	6.96	5.46	MC908AP64CFBE
		—	32	8-Ch., 10-Bit	2-Ch.	I^2C, SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908AP64CFAE-ND◆	8.41	6.96	6.35	MC908AP64CFAE
RS08KA — RoHS Compliant																
1K	63	—	2	—	1-Ch. (8-Bit)	—	—	1.8 ~ 5.5	10	-40 ~ 85	6-DFN	MC9RS08KA1CDB-ND	.95	.43	.38	MC9RS08KA1CDB
		—	4	—	1-Ch. (8-Bit)	—	—	1.8 ~ 5.5	10	-40 ~ 85	8-PDIP	MC9RS08KA1CPC-ND	.78	.48	.44	MC9RS08KA1CPC
		—	4	—	1-Ch. (8-Bit)	—	—	1.8 ~ 5.5	10	-40 ~ 85	8-SOIC	MC9RS08KA1CSC-ND	.85	.54	.50	MC9RS08KA1CSC
		—	4	—	1-Ch.	—	—	1.8 ~ 5.5	10	-40 ~ 85	8-SOIC	MC9RS08KA1CSCRCT-ND§	.92	.48	.44	MC9RS08KA1CSCR
		—	4	—	1-Ch.	—	—	1.8 ~ 5.5	10	-40 ~ 85	8-SOIC	MC9RS08KA1CSCRTR-ND‡	1080.00/2,500			MC9RS08KA1CSCR
2K	63	—	2	—	1-Ch. (8-Bit)	—	—	1.8 ~ 5.5	10	-40 ~ 85	6-DFN	MC9RS08KA2CDB-ND	.92	.68	.54	MC9RS08KA2CDB
		—	4	—	1-Ch. (8-Bit)	—	—	1.8 ~ 5.5	10	-40 ~ 85	8-PDIP	MC9RS08KA2CPC-ND	.98	.73	.58	MC9RS08KA2CPC
		—	4	—	1-Ch. (8-Bit)	—	—	1.8 ~ 5.5	10	-40 ~ 85	8-SOIC	MC9RS08KA2CSC-ND	.92	.58	.54	MC9RS08KA2CSC
NEW! MC9S08JM — RoHS Compliant NEW!																
32K	2K	—	33	8-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	See Timer	3.3	24	-40 ~ 85	44-LQFP	MC9S08JM32CLD-ND	3.94	2.99	2.84	MC9S08JM32CLD
		—	37	8-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	See Timer	3.3	24	-40 ~ 85	48-QFN	MC9S08JM32CGT-ND	4.00	3.03	2.88	MC9S08JM32CGT
		—	51	12-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	See Timer	3.3	24	-40 ~ 85	64-QFP	MC9S08JM32CQH-ND	4.10	3.10	2.95	MC9S08JM32CQH
		—	51	12-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	See Timer	3.3	24	-40 ~ 85	64-LQFP	MC9S08JM32CLH-ND	4.10	3.10	2.95	MC9S08JM32CLH
60K	4K	—	33	8-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	See Timer	3.3	24	-40 ~ 85	44-LQFP	MC9S08JM60CLD-ND	4.25	3.22	3.06	MC9S08JM60CLD
		—	37	8-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	See Timer	3.3	24	-40 ~ 85	48-QFN	MC9S08JM60CGT-ND	4.33	3.28	3.12	MC9S08JM60CGT
		—	51	12-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	See Timer	3.3	24	-40 ~ 85	64-QFP	MC9S08JM60CQH-ND	4.40	3.34	3.17	MC9S08JM60CQH
		—	51	12-Ch., 12-Bit	2-Ch., 6-Ch.	SCI, SPI	See Timer	3.3	24	-40 ~ 85	64-LQFP	MC9S08JM60CLH-ND	4.40	3.34	3.17	MC9S08JM60CLH
HC9S08																
2K	128	—	4	4-Ch., 10-Bit	2-Ch. + 1-Ch.	—	See Timer	2.7 ~ 5.5	8.0	-40 ~ 85	8-PDIP	MC9S08QD2CPC-ND◆	1.44	.88	.81	MC9S08QD2CPC
		—	4	4-Ch., 10-Bit	2-Ch. + 1-Ch.	—	See Timer	2.7 ~ 5.5	8.0	-40 ~ 85	8-SOIC	MC9S08QD2CSC-ND◆	1.63	.85	.77	MC9S08QD2CSC
		—	4	4-Ch., 10-Bit	2-Ch. + 1-Ch.	—	See Timer	2.7 ~ 5.5	8.0	-40 ~ 125	8-PDIP	MC9S08QD2MPC-ND◆	1.53	.94	.85	MC9S08QD2MPC
		—	4	4-Ch., 10-Bit	2-Ch. + 1-Ch.	—	See Timer	2.7 ~ 5.5	8.0	-40 ~ 125	8-SOIC	MC9S08QD2MSC-ND◆	1.53	.94	.85	MC9S08QD2MSC
		—	4	4-Ch., 10-Bit	2-Ch. + 1-Ch.	—	See Timer	2.7 ~ 5.5	8.0	-40 ~ 105	8-PDIP	MC9S08QD2VPC-ND◆	1.50	.92	.84	MC9S08QD2VPC
		—	4	4-Ch., 10-Bit	2-Ch. + 1-Ch.	—	See Timer	2.7 ~ 5.5	8.0	-40 ~ 105	8-SOIC	MC9S08QD2VSC-ND◆	1.44	.88	.81	MC9S08QD2VSC
4K	128	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0	8.0	-40 ~ 85	28-SOIC	MCR908JL3ECDWE-ND◆	3.95	2.78	2.54	MCR908JL3ECDWE
		—	23	12-Ch., 8-Bit	2-Ch.	—	2 Ch., 16-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	20-SOIC	MCR908JK3ECDWE-ND◆	3.10	2.18	1.99	MCR908JK3ECDWE
	256	—	4	4-Ch., 10-Bit	2-Ch.	—	2 Ch., 16-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-DIP	MC9S08QD4CPC-ND◆	1.56	.95	.87	MC9S08QD4CPC
		—	4	4-Ch., 10-Bit	2-Ch.	—	2 Ch., 16-Bit	3.0 ~ 5.0	8.0	-40 ~ 85	8-SOIC	MC9S08QD4CSC-ND◆	1.53	.94	.85	MC9S08QD4CSC
		—	4	4-Ch., 10-Bit	2-Ch. + 1-Ch.	—	See Timer	2.7 ~ 5.5	8.0	-40 ~ 125	8-PDIP	MC9S08QD4MPC-ND◆	1.79	1.09	1.00	MC9S08QD4MPC
		—	4	4-Ch., 10-Bit	2-Ch.	SPI	—	1.8	20.0	-40 ~ 105	8-SOIC	MC9S08QD4VSC-ND◆	1.65	1.01	.92	MC9S08QD4VSC
		—	4	4-Ch., 10-Bit	2-Ch.	SPI	—	1.8	20.0	-40 ~ 105	8-DIP	MC9S08QD4VPC-ND◆	1.70	1.04	.90	MC9S08QD4VPC
		—	6	4-Ch., 10-Bit	—	—	—	1.8 ~ 3.6	8.0	-40 ~ 85	8-SOIC	MC9S08QG4CDNE-ND◆	2.02	1.23	1.13	MC9S08QG4CDNE
		—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	2 Ch., 16-Bit	1.8 ~ 3.6	10.0	-40 ~ 85	16-TSSOP	MC9S08QG4CDTE-ND◆	2.28	1.39	1.27	MC9S08QG4CDTE
		—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	2 Ch., 16-Bit	1.8 ~ 3.6	10.0	-40 ~ 85	16-QFN	MC9S08QG4CFFE-ND◆	2.31	1.41	1.29	MC9S08QG4CFFE
		—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI, I^2C	See Timer	1.8 ~ 3.6	10.0	-40 ~ 85	24-QFN	MC9S08QG4CFKE-ND◆	2.57	1.57	1.43	MC9S08QG4CFKE
		—	6	4-Ch., 10-Bit	—	—	—	1.8 ~ 3.6	8.0	-40 ~ 85	8-QFN-D	MC9S08QG4CFQE-ND◆	2.08	1.27	1.16	MC9S08QG4CFQE
		—	6	4-Ch., 10-Bit	—	—	—	1.8 ~ 3.6	8.0	-40 ~ 85	8-DIP	MC9S08QG4CPAE-ND◆	1.93	1.18	1.08	MC9S08QG4CPAE
		—	6	4-Ch., 10-Bit	—	—	—	1.8 ~ 3.6	8.0	-40 ~ 85	16-PDIP	MC9S08QG4CPBE-ND◆	2.08	1.27	1.10	MC9S08QG4CPBE

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Microcontrollers – 8 and 16 Bit

HC908 Family — 8-Bit *(Cont.)*

FLASH (Bytes)	RAM (Bytes)	EEPROM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	PWM	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
8K	512	—	6	4-Ch., 10-Bit	—	—	—	1.8 ~ 3.6	8.0	-40 ~ 85	8-SOIC	MC9S08QG8CDNE-ND◆	2.14	1.30	1.19	MC9S08QG8CDNE
		—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	2 Ch., 16-Bit	1.8 ~ 3.6	10.0	-40 ~ 85	16-TSSOP	MC9S08QG8CDTE-ND◆	2.45	1.50	1.37	MC9S08QG8CDTE
		—	14	8-Ch., 10-Bit	2-Ch.	I^{2}C, SPI, SCI	See Timer	1.8 ~ 3.6	8.0	-40 ~ 85	16-TSOP	MC9S08QG8CDTERCT-ND◆§	2.28	1.46	1.37	MC9S08QG8CDTER
		—	14	8-Ch., 10-Bit	2-Ch.	I^{2}C, SPI, SCI	See Timer	1.8 ~ 3.6	8.0	-40 ~ 85	16-TSOP	MC9S08QG8CDTERTR-ND◆‡	3275.00/2,500			MC9S08QG8CDTER
		—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	2 Ch., 16-Bit	1.8 ~ 3.6	10.0	-40 ~ 85	16-QFN	MC9S08QG8CFFE-ND◆	2.48	1.52	1.38	MC9S08QG8CFFE
		—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI, I^{2}C	See Timer	1.8 ~ 3.6	10.0	-40 ~ 85	16-QFN	MC9S08QG8CFFERCT-ND◆§	2.66	1.62	1.48	MC9S08QG8CFFER
		—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI, I^{2}C	See Timer	1.8 ~ 3.6	10.0	-40 ~ 85	16-QFN	MC9S08QG8CFFERTR-ND◆‡	3312.00/2,500			MC9S08QG8CFFER
		—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI, I^{2}C	See Timer	1.8 ~ 3.6	10.0	-40 ~ 85	24-QFN	MC9S08QG8CFKE-ND◆	2.74	1.67	1.53	MC9S08QG8CFKE
		—	6	4-Ch., 10-Bit	—	—	—	1.8 ~ 3.6	8.0	-40 ~ 85	8-QFN-D	MC9S08QG8CFQE-ND◆	2.22	1.36	1.17	MC9S08QG8CFQE
		—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	2 Ch., 16-Bit	1.8 ~ 3.6	10.0	-40 ~ 85	16-DIP	MC9S08QG8CPBE-ND◆	2.34	1.43	1.30	MC9S08QG8CPBE
8K	1K	—	39	8-Ch., 10-Bit	3-Ch. + 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 125	48-QFN	MC9S08GT8AMFDE-ND◆	2.28	2.10	1.91	MC9S08GT8AMFDE
		—	36	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 125	44-QFP	MC9S08GT8AMFBE-ND◆	2.90	2.04	1.86	MC9S08GT8AMFBE
		—	24	8-Ch., 10-Bit	2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 125	32-QFN	MC9S08GT8AMFCE-ND◆	2.90	2.04	1.86	MC9S08GT8AMFCE
		—	39	8-Ch., 10-Bit	3-Ch. + 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 85	48-QFN	MC9S08GT8ACFDE-ND◆	2.73	1.92	1.75	MC9S08GT8ACFDE
		—	36	8-Ch., 10-Bit	2-Ch.	SCI, SPI, I^{2}C	See Timer	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT8ACFBERCT-ND◆§	2.85	2.01	1.83	MC9S08GT8ACFBER
		—	36	8-Ch., 10-Bit	2-Ch.	SCI, SPI, I^{2}C	See Timer	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT8ACFBERTR-ND◆‡	1296.18/750			MC9S08GT8ACFBER
		—	36	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 85	44-QFP	MC9S08GT8ACFBE-ND◆	2.63	1.85	1.69	MC9S08GT8ACFBE
		—	34	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 85	42-SDIP	MC9S08GT8ACBE-ND◆	2.63	1.85	1.69	MC9S08GT8ACBE
		—	24	8-Ch., 10-Bit	2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 85	32-QFN	MC9S08GT8ACFCE-ND◆	2.63	1.85	1.69	MC9S08GT8ACFCE
16K	1K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT16CFBE-ND◆	5.63	4.02	3.66	MC9S08GT16CFBE
		—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	32-LQFP	MC9S08RE16FJE-ND◆	6.00	4.22	3.85	MC9S08RE16FJE
		—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	44-LQFP	MC9S08RE16FGE-ND◆	6.00	4.22	3.85	MC9S08RE16FGE
		—	38	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	48-QFN	MC9S08AW16CFDE-ND◆	3.85	2.71	2.47	MC9S08AW16CFDE
		—	34	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	44-LQFP	MC9S08AW16CFGE-ND◆	3.65	2.57	2.35	MC9S08AW16CFGE
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	64-QFP	MC9S08AW16CFUE-ND◆	4.13	2.90	2.65	MC9S08AW16CFUE
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	64-LQFP	MC9S08AW16CPUE-ND◆	4.13	2.90	2.65	MC9S08AW16CPUE
	2K	—	39	8-Ch., 10-Bit	3-Ch. + 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 125	48-QFN	MC9S08GT16AMFDE-ND◆	2.76	2.53	2.31	MC9S08GT16AMFDE
		—	36	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 125	44-QFP	MC9S08GT16AMFBE-ND◆	2.68	2.46	2.25	MC9S08GT16AMFBE
		—	24	8-Ch., 10-Bit	2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 125	32-QFN	MC9S08GT16AMFCE-ND◆	2.68	2.46	2.25	MC9S08GT16AMFCE
		—	39	8-Ch., 10-Bit	3-Ch., + 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 85	48-QFN	MC9S08GT16ACFDE-ND◆	2.51	2.31	2.10	MC9S08GT16ACFDE
		—	36	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 85	44-QFP	MC9S08GT16ACFBE-ND◆	3.20	2.25	2.06	MC9S08GT16ACFBE
		—	36	8-Ch., 10-Bit	2-Ch.	SCI, SPI, I^{2}C	See Timer	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT16ACFBERCT-ND◆§	3.43	2.41	2.20	MC9S08GT16ACFBER
		—	36	8-Ch., 10-Bit	2-Ch.	SCI, SPI, I^{2}C	See Timer	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT16ACFBERTR-ND◆‡	1557.69/750			MC9S08GT16ACFBER
		—	34	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 85	42-SDIP	MC9S08GT16ACBE-ND◆	3.20	2.25	2.06	MC9S08GT16ACBE
		—	24	8-Ch., 10-Bit	2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 ~ 85	32-QFN	MC9S08GT16ACFCE-ND◆	3.20	2.25	2.06	MC9S08GT16ACFCE
32K	2K	—	36	8-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	42-SDIP	MC9S08GT32ACBE-ND◆	5.45	3.84	3.50	MC9S08GT32ACBE
		—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT32CFBE-ND◆	8.17	5.84	5.31	MC9S08GT32CFBE
		—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	1.8 ~ 3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT32CFDE-ND◆	8.39	5.99	5.45	MC9S08GT32CFDE
		—	38	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	48-QFN	MC9S08AW32CFDE-ND◆	4.13	2.90	2.65	MC9S08AW32CFDE
		—	34	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	44-LQFP	MC9S08AW32CFGE-ND◆	3.95	2.78	2.54	MC9S08AW23CFGE
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	64-QFP	MC9S08AW32CFUE-ND◆	4.40	3.10	2.83	MC9S08AW32CFUE
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	64-LQFP	MC9S08AW32CPUE-ND◆	4.40	3.10	2.83	MC9S08AW32CPUE
		—	34	8-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2 SCI, I^{2}C	See Timer	2.7 ~ 5.5	20.0	-40 ~ 125	44-LQFP	MC9S08AW32MFGE-ND◆	4.33	3.04	2.78	MC9S08AW32MFGE
36K	2K	—	18	2-Ch., 12-Bit	2-Ch.	SCI, SPI	—	1.8 ~ 3.6	40.0	-40 ~ 85	64-LQFP	MC9S08LC36LH-ND◆	5.56	4.61	4.20	MC9S08LC36LH
		—	23	8-Ch., 12-Bit	2-Ch.	SCI, SPI	—	1.8 ~ 3.6	40.0	-40 ~ 85	80-LQFP	MC9S08LC36LK-ND◆	5.77	4.78	4.37	MC9S08LC36LK
48K	2K	—	38	16-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	48-QFN	MC9S08AW48CFDE-ND◆	4.93	3.47	3.16	MC9S08AW48CFDE
		—	34	16-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	44-LQFP	MC9S08AW48CFGE-ND◆	4.75	3.34	3.05	MC9S08AW48CFGE
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	64-QFP	MC9S08AW48CFUE-ND◆	5.23	3.68	3.36	MC9S08AW48CFUE
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	64-QFP	MC9S08AW48CFUERTR-ND◆‡	2419.50/750			MC9S08AW48CFUER
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	64-LQFP	MC9S08AW48CPUE-ND◆	5.23	3.68	3.36	MC9S08AW48CPUE
60K	2K	—	38	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2-ESCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	48-QFN	MC9S08AW60CFDE-ND◆	5.35	3.76	3.44	MC9S08AW60CFDE
		—	34	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2-ESCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	44-LQFP	MC9S08AW60CFGE-ND◆	5.15	3.62	3.31	MC9S08AW60CFGE
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2-ESCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	64-QFP	MC9S08AW60CFUE-ND◆	5.63	3.96	3.61	MC9S08AW60CFUE
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2-ESCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	64-QFP	MC9S08AW60CFUERTR-ND◆‡	2562.75/750			MC9S08AW60CFUER
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	SPI, 2-ESCI, I^{2}C	See Timer	3.0 ~ 5.0	20.0	-40 ~ 85	64-LQFP	MC9S08AW60CPUE-ND◆	5.63	3.96	3.61	MC9S08AW60CPUE
		—	27	—	2-Ch.	SCI, SPI	See Timer	1.8 ~ 3.6	8.0	-40 ~ 85	32-LQFP	MC9S08RG60CFJ-ND	9.67	7.32	6.74	MC9S08RG60CFJ
	4K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.6	20.0	-40 ~ 85	42-SDIP	MC9S08GT60ACBE-ND◆	6.22	5.15	4.70	MC9S08GT60ACBE
		—	36	8-Ch., 10-Bit	3-Ch. + 5-Ch.	SCI, SPI, I^{2}C	See Timer	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT60ACFBERCT-ND◆§	6.01	4.98	4.54	MC9S08GT60ACFBER
		—	36	8-Ch., 10-Bit	3-Ch. + 5-Ch.	SCI, SPI, I^{2}C	See Timer	1.8 ~ 3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT60ACFBERTR-ND◆‡	3217.71/750			MC9S08GT60ACFBER
		—	39	8-Ch., 10-Bit	3-Ch. + 5-Ch.	SCI, SPI, I^{2}C	See Timer	1.8 ~ 3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT60ACFDERCT-ND◆§	6.18	5.12	4.67	MC9S08GT60ACFDER
		—	39	8-Ch., 10-Bit	3-Ch. + 5-Ch.	SCI, SPI, I^{2}C	See Timer	1.8 ~ 3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT60ACFDERTR-ND◆‡	8380.80/2,000			MC9S08GT60ACFDER
		—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	1.8 ~ 3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT60CFDE-ND◆	9.67	7.32	6.75	MC9S08GT60CFDE
		—	56	8-Ch., 10-Bit	3-Ch. + 5-Ch.	SCI, SPI	See Timer	3.6	20.0	-40 ~ 85	64-LQFP	MC9S08GB60CFUE-ND◆	10.05	7.61	7.01	MC9S08GB60CFUE
		—	18	2-Ch., 12-Bit	2-Ch.	SCI, SPI	—	1.8 ~ 3.6	20.0	-40 ~ 85	64-LQFP	MC9S08LC60LH-ND◆	6.54	5.42	4.94	MC9S08LC60LH
		—	18	2-Ch., 12-Bit	2-Ch.	SCI, SPI	—	1.8 ~ 3.6	20.0	-40 ~ 85	80-LQFP	MC9S08LC60LK-ND◆	6.75	5.59	5.10	MC9S08LC60LK

Demo Boards

Demo Board for MC9S08AW60	DEMO9S08AW60E-ND◆	91.80/1	DEMO9S08AW60E
Demo Board for MC9S08DZ60	DEMO9S08DZ60-ND◆	84.24/1	DEMO9S08DZ60
Demo Board for 9S08LC60 / LCD Controller	DEMO9S08LC60-ND◆	75.04/1	DEMO9S08LC60
Demo Board for MC9S08QD Family	DEMO9S08QD4-ND◆	63.72/1	DEMO9S08QD4
Demo Board for S08RG/RC/RD/RE Family	DEMO9S08RG60E-ND◆	66.70/1	DEMO9S08RG60E
Demo Board for 9S08RG60	DEMO9S08RG60-ND	68.06/1	DEMO9S08RG60
Demo Board for 908AP64	DEMO908AP64-ND	49.02/1	DEMO908AP64
Demo Board for 908GZ60	DEMO908GZ60-ND	84.92/1	DEMO908GZ60
Demo Board for 908GZ60	DEMO908GZ60E-ND◆	49.97/1	DEMO908GZ60E
Demo Board for 9RS08KA2	DEMO9RS08KA2-ND◆	54.00/1	DEMO9RS08KA2
Evaluation Board for HC908GP32	M68EVB908GP32-ND	285.94/1	M68EVB908GP32
Evaluation Board for MC9S08GB60	M68EVB908GB60E-ND◆	249.23/1	M68EVB908GB60E
USB Programmer / ISP Programmer	USBSPYDER08-ND◆	38.21/1	USBSPYDER08
Demo Board for MC9S08QG8	DEMO9S08QG8E-ND◆	54.00/1	DEMO9S08QG8E

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

HC912 Family — 16-Bit

The 68HC12 CPU is upwardly compatible with the 68HC11 core and supports all registers, instructions, addressing modes and operating modes of the 68HC11. **Features:** • Fully static design allowing operation down to DC • 16-bit Accumulator • 20-bit ALU • 16-bit Timer with built-in prescaler • BDM (Background Debug Module) for faster debugging and non-intrusive, real time read/write capability to the memory and registers • SAE J1850 BDLC-D (Byte Data Link Control Module) for single wire communication with other BDLC MCUs • COP Watchdog Timer • Low power STOP and WAIT modes • SPI, SCI, I²C and CAN 2.0 • High-level language optimization • 32/16 Divide • 16 x 16 Multiply

Flash (Bytes)	RAM (Bytes)	EEPROM (Bytes)	Timer	PWM	I/O	A/D	Features	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Freescale Part No.
32K	1K	768	8-Ch., 16-Bit	2-Ch., 8-Bit	63	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 85	80-QFP	MCHC912B32CFUE8-ND◆	18.69	17.15	15.65	MCHC912B32CFUE8
		768	8-Ch., 16-Bit	2-Ch., 8-Bit	63	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 105	80-QFP	MCHC912B32VFUE8-ND◆	19.59	17.98	16.40	MCHC912B32VFUE8
	3.5K	—	8-Ch., 16-Bit	See Timer	75	—	USB 2.0	5.0	30.0	0 ~ 70	100-LQFP	MC9S12UF32PUE-ND◆	8.41	6.96	5.46	MC9S12UF32PUE
		—	8-Ch., 16-Bit	See Timer	37	—	USB 2.0	5.5	30.0	-40 ~ 85	64-LQFP	MC9S12UF32PBE-ND◆	7.86	6.51	5.94	MC9S12UF32PBE
60K	2K	1K	8-Ch., 16 Bit	4-Ch., 8-Bit	48	8-Ch., 10-Bit	CAN 2.0	5.0	8.0	-40 ~ 85	80-QFP	MC912D60ACFUE8-ND◆	17.31	15.89	14.50	MC912D60ACFUE8
64K	4K	1K	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	5.0	25.0	-40 ~ 85	80-QFP	MCS12GC64CFUE-ND◆	6.60	5.47	4.72	MCS12GC64CFUE
		1K	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	5.0	25.0	-40 ~ 125	80-QFP	MCS12GC64MFUE-ND◆	7.43	5.95	5.25	MCS12GC64MFUE
128K	8K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	CAN 2.0	5.0	8.0	-40 ~ 85	112-LQFP	MC912DG128ACPVE-ND◆	30.31	27.82	25.38	MC912DG128ACPVE
		2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 125	112-LQFP	MC912DG128AMPVE-ND◆	33.03	30.31	27.66	MC912DG128AMPVE
		2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 85	112-LQFP	MC912DG128ACPVERCT-ND◆§	28.15	22.08	20.80	MC912DG128ACPVER
		2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 85	112-LQFP	MC912DG128ACPVERTR-ND◆‡		11534.50/500		MC912DG128ACPVER
HC9S12																
6K	2K	1K	8-Ch., 16-Bit	4-Ch., 16-Bit	16	8-Ch., 10-Bit	CAN 2.0	5.0	8.0	-40 ~ 85	112-LQFP	MC912D60ACPVE8-ND◆	17.31	15.89	14.50	MC912D60ACPVE8
16K	1K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 125	80-QFP	MC9S12GC16MFUE-ND◆	7.71	6.38	5.01	MC9S12GC16MFUE
		—	8-Ch., 16-Bit	6-Ch., 8-Bit	35	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 125	52-LQFP	MC9S12GC16MPBE-ND◆	7.41	6.14	5.60	MC9S12GC16MPBE
32K	2K	—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15 ~ 5.55	25.0	-40 ~ 125	80-QFP	MC9S12C32MFU25-ND	11.16	8.45	7.79	MC9S12C32MFU25
		—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15 ~ 5.55	25.0	-40 ~ 125	80-QFP	MC9S12C32MFUE25-ND◆	9.38	7.77	7.09	MC9S12C32MFUE25
		—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15 ~ 5.55	25.0	-40 ~ 125	52-LQFP	MC9S12C32MPB25-ND	10.65	8.06	7.43	MC9S12C32MPB25
		—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15 ~ 5.55	25.0	-40 ~ 125	52-LQFP	MC9S12C32MPBE25-ND◆	8.77	7.26	6.63	MC9S12C32MPBE25
		—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 125	80-QFP	MC9S12GC32MFUE-ND◆	9.30	7.70	7.03	MC9S12GC32MFUE
		—	8-Ch., 16-Bit	6-Ch., 8-Bit	35	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 125	52-LQFP	MC9S12GC32MPBE-ND◆	7.69	6.37	5.45	MC9S12GC32MPBE
		—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 105	48-LQFP	MC9S12GC32VFAE-ND◆	6.61	6.07	5.54	MC9S12GC32VFAE
64K	2K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 125	80-QFP	MC9S12B64MFUE-ND◆	9.92	9.07	8.29	MC9S12B64MFUE
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12B64CPVE-ND◆	10.36	8.58	7.83	MC9S12B64CPVE
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	35	8-Ch., 10-Bit	CAN 2.0, SCI, SPI	3.3 ~ 5.5	25.0	-40 ~ 125	52-LQFP	MC9S12C64MPBE-ND◆	10.51	8.70	7.94	MC9S12C64MPBE
		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 125	80-QFP	MC9S12D64MFUE-ND◆	11.66	10.70	9.77	MC9S12D64MFUE
		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 125	112-LQFP	MC9S12D64MPVE-ND◆	12.12	11.13	10.15	MC9S12D64MPVE
		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12D64CFUE-ND◆	10.61	9.74	8.89	MC9S12D64CFUE
		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 105	80-QFP	MC9S12D64VFUE-ND◆	11.13	10.21	9.32	MC9S12D64VFUE
		—	(3) 4-Ch., 16-Bit	See Timer	90	16-Ch., 10-Bit	—	3.3 ~ 5.0	25.0	-40 ~ 85	80-QFP	MC9S12E64CFU-ND	12.26	9.27	8.55	MC9S12E64CFU
		—	(3) 4-Ch., 16-Bit	See Timer	90	16-Ch., 10-Bit	—	3.3 ~ 5.0	25.0	-40 ~ 85	80-QFP	MC9S12E64CFUE-ND◆	8.96	7.42	6.77	MC9S12E64CFUE
		—	12-Ch., 16-Bit	6-Ch., 8-Bit	92	16-Ch., 10-Bit	(3) SCI, SPI, I²C	5.0	25.0	-40 ~ 125	112-LQFP	MC9S12E64MPVE-ND◆	10.93	9.16	8.23	MC9S12E64MPVE
		1K	4-Ch., 16-Bit	See Timer	58	16-Ch., 10-Bit	CAN 2.0, SCI	5.0	25.0	-40 ~ 85	80-QFP	MC9S12HZ64CAA-ND◆	13.41	12.30	10.62	MC9S12HZ64CAA
	8K	—	4-Ch., 16-Bit	See Timer	36	8-Ch., 10-Bit	Ethernet	3.3 ~ 5.0	25.0	-40 ~ 105	80-TQFP	MC9S12NE64VTU-ND◆	17.24	13.04	12.02	MC9S12NE64VTU
		—	4-Ch., 16-Bit	See Timer	38	8-Ch., 10-Bit	Ethernet	3.3 ~ 5.0	25.0	-40 ~ 105	80-TQFP	MC9S12NE64VTUE-ND◆	9.84	9.04	8.24	MC9S12NE64VTUE
		—	4-Ch., 16-Bit	See Timer	70	8-Ch., 10-Bit	Ethernet	3.3 ~ 5.0	25.0	-40 ~ 85	112-LQFP	MC9S12NE64CPV-ND	15.74	11.91	10.98	MC9S12NE64CPV
		—	4-Ch., 16-Bit	See Timer	70	8-Ch., 10-Bit	Ethernet	3.3 ~ 5.0	25.0	-40 ~ 85	112-LQFP	MC9S12NE64CPVE-ND◆	10.38	9.53	8.69	MC9S12NE64CPVE
	12K	—	(3) 4-Ch., 16-Bit	See Timer	90	16-Ch., 10-Bit	—	3.3 ~ 5.0	25.0	-40 ~ 125	80-QFP	MC9S12E64MFUE-ND◆	9.85	8.16	7.44	MC9S12E64MFUE
96K	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	CAN 2.0	3.3 ~ 5.0	25.0	-40 ~ 85	80-QFP	MC9S12C96CFUERCT-ND◆§	10.72	8.98	8.40	MC9S12C96CFUER
		—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	CAN 2.0	3.3 ~ 5.0	25.0	-40 ~ 85	80-QFP	MC9S12C96CFUERTR-ND◆‡		6048.00/750		MC9S12C96CFUER
128K	4K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 125	80-QFP	MC9S12B128MFUE-ND◆	13.08	12.01	10.95	MC9S12B128MFUE
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 105	80-QFP	MC9S12B128VFUE-ND◆	12.47	11.07	9.77	MC9S12B128VFUE
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 85	112-LQFP	MC9S12B128CPVE-ND◆	12.16	11.16	10.18	MC9S12B128CPVE
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 125	112-LQFP	MC9S12B128MPVE-ND◆	13.42	12.32	10.63	MC9S12B128MPVE
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 105	112-LQFP	MC9S12B128VPVE-ND◆	12.83	11.78	10.75	MC9S12B128VPVE
		2K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	48-LQFP	MC9S12C128CFAE-ND◆	10.78	9.03	8.11	MC9S12C128CFAE
		2K	8-Ch., 16-Bit	6-Ch., 8-Bit	37	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 125	48-PQPF	MC9S12GC128MFAE-ND◆	10.03	8.40	7.55	MC9S12GC128MFAE
	6K	2K	8-Ch., 16-Bit	6-Ch., 8-Bit	85	16-Ch., 10-Bit	(2)CAN 2.0, (2)SCI, SPI, I²C	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12HZ128CAL-ND◆	15.03	13.80	12.59	MC9S12HZ128CAL
		2K	8-Ch., 16-Bit	6-Ch., 8-Bit	85	16-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 105	112-LQFP	MC9S12HZ128VAL-ND◆	15.78	13.21	11.87	MC9S12HZ128VAL
	8K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DB128CPV-ND	18.45	14.47	13.63	MC9S12DB128CPV
		2K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DT128CPVE-ND◆	13.86	12.73	10.98	MC9S12DT128CPVE
		2K	8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 125	112-LQFP	MC9S12DG128MPV-ND	19.13	15.01	14.14	MC9S12DG128MPV
		2K	8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 105	112-LQFP	MC9S12DG128VPV-ND	18.27	14.34	13.50	MC9S12DG128VPV
		2K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DB128CFUE-ND◆	14.65	13.45	12.27	MC9S12DB128CFUE
		2K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DG128CFUE-ND◆	13.62	12.50	10.78	MC9S12DG128CFUE
		2K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DG128CFUERTR-ND◆‡		7938.00/750		MC9S12DG128CFUER
		2K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DJ128CFUE-ND◆	13.88	12.74	11.00	MC9S12DJ128CFUE
		2K	8-Ch., 16-Bit	See Timer	91	(2) 8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DB128CPVE-ND◆	14.29	13.11	11.31	MC9S12DB128CPVE
		2K	8-Ch., 16-Bit	See Timer	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DG128CPVE-ND◆	14.06	12.90	11.13	MC9S12DG128CPVE
		2K	8-Ch., 16-Bit	See Timer	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DJ128CPVE-ND◆	14.31	13.13	11.33	MC9S12DJ128CPVE
		—	(3) 4-Ch., 16-Bit	See Timer	59	16-Ch., 10-Bit	—	3.3 ~ 5.0	25.0	-40 ~ 85	80-QFP	MC9S12E128CFUE-ND◆	10.04	8.32	7.59	MC9S12E128CFUE
		—	(3) 4-Ch., 16-Bit	See Timer	59	16-Ch., 10-Bit	—	5.0	25.0	-40 ~ 125	80-QFP	MC9S12E128MFUE-ND◆	9.96	9.14	8.34	MC9S12E128MFUE
		—	12-Ch., 16-Bit	6-Ch., 8-Bit	60	—	CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12E128CPVE-ND◆	10.38	8.69	7.24	MC9S12E128CPVE
		—	(3) 4-Ch., 16-Bit	6-Ch., 8-Bit	92	16-Ch., 10-Bit	(3) SCI, SPI, I²C	5.0	25.0	-40 ~ 125	112-LQFP	MC9S12E128MPVE-ND◆	11.41	10.48	9.56	MC9S12E128MPVE
256K	8K	2K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0, (2) SCI, SPI, I²C	3.3 ~ 5.5	25.0	-40 ~ 125	80-QFP	MC9S12B256MFUE-ND◆	18.88	17.33	15.81	MC9S12B256MFUE
	12K	4K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DG256CFUE-ND◆	16.91	15.52	14.16	MC9S12DG256CFUE
		4K	8-Ch., 16-Bit	See Timer	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DG256CPVE-ND◆	17.35	15.92	14.53	MC9S12DG256CPVE
		4K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12DJ256CFUE-ND◆	18.56	17.03	15.54	MC9S12DJ256CFUE
		4K	8-Ch., 16-Bit	See Timer	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DJ256CPVE-ND◆	19.00	17.43	15.91	MC9S12DJ256CPVE
		4K	8-Ch., 16-Bit	6-Ch., 8-Bit	117	16-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 105	144-LQFP	MC9S12H256VFVERCT-ND◆§	17.69	16.15	15.11	MC9S12H256VFVER
		4K	8-Ch., 16-Bit	6-Ch., 8-Bit	117	16-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 105	144-LQFP	MC9S12H256VFVERTR-ND◆‡		7250.50/500		MC9S12H256VFVER
	16K	4K	8-Ch., 16-Bit	8-Ch., 16-Bit	59	8-Ch., 10-Bit	SCI, SPI	3.3	40.0	-40 ~ 105	80-PQFP	MC9S12XA256CAARCT-ND◆§	13.19	11.05	10.34	MC9S12XA256CAAR
		4K	8-Ch., 16-Bit	8-Ch., 16-Bit	59	8-Ch., 10-Bit	SCI, SPI	3.3	40.0	-40 ~ 105	80-PQFP	MC9S12XA256CAARTR-ND◆‡		7482.75/750		MC9S12XA256CAAR
512K	14K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	(2) 8-Ch., 10-Bit	(5) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DP512CPVERCT-ND◆§	18.80	17.16	16.05	MC9S12DP512CPVER
		4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	(2) 8-Ch., 10-Bit	(5) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DP512CPVERTR-ND◆‡		7747.00/500		MC9S12DP512CPVER
HC16 — RoHS Compliant																
—	1K	—	8-Ch., 10-Bit	2-Ch.	16	8-Ch., 10-Bit	SCI, SPI	5.0	16.0	-40 ~ 85	132-PQFP	MC68HC16Z1VEH16-ND	19.57	17.86	16.05	MC68HC16Z1VEH16
Demo Boards																
Evaluation Board for MC9S12E128/64												M68EVB912E128-ND		253.48/1		M68EVB912E128
Evaluation Board for MC9S12XDT512												DEMO9S12XDT512E-ND◆		75.04/1		DEMO9S12XDT512E
Development Kit for 912D60A with Serial Debugger												M68KIT912D60A-ND		527.79/1		M68KIT912D60A
Development Kit for 912D128A with Serial Debugger												M68KIT912DG128A-ND		766.02/1		M68KIT912D128A
Development Kit for 912DP256 with Multilink												M68KIT912DP256-ND		495.55/1		M68KIT912DP256
Development Kit for 912UF32 with Multilink												M68KIT912UF32-ND		850.00/1		M68KIT912UF32

◆ ***RoHS Compliant*** § Cut Tape ‡ Tape and Reel

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

freescale™
semiconductor

Introducing QE Family
Freescale's Microcontrollers

Introducing the QE128 Family:

QE128 low power devices are the industry's first 8-bit and 32-bit pin, peripheral and tool compatible MCUs which make the design process quick, easy and limitless.

- **Unprecedented compatibility:** Freescale's Controller Continuum provides unique flexibility to transition from 8-bit to 32-bit. With pin, peripheral and tool compatibility, the QE128 devices simplify and speed the design process
- **Ultra-low power:** Through an optimized architecture that provides lower operating voltage and current, the QE128 devices offer industry-leading ultra-low power benefits to extend battery life.
- **Easy to use:** Common CodeWarrior development tools, training and documentation gets you on the design fast track. Pin and peripheral compatibility avoids learning new codes and tools.

The MC9S08QE8 microcontroller extends the ultra-low-power QE family offering high integration with an ideal pin and memory combination to help our customers design energy-efficient and high-performing applications.

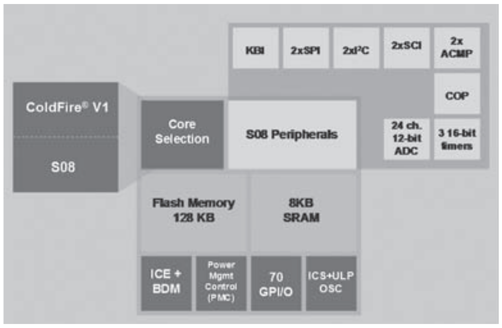

Target Applications:

Home Health Monitoring
HVAC Control
Home Appliances
Security Systems
Home Automation

Package Options:

S08QE Packages
80LQFP, 64LQFP, 48QFN, 44QFP, 32LQFP

ColdFire QE Packages
80LQFP, 64LQFP

Temperature Range
-40°C to 85°C

Features:

Operating Voltage/Performance
- 1.8-3.6V operating range
- 50MHz S08 or ColdFire V1 core
- 25MHz bus frequency

Memory
- Up to 8K bytes SRAM
- Up to 128K bytes flash

Communications
- 2x SCI, 2x I2C, 2x SPI

Features/Benefits
- 2x KBI – 8 channels each
- 16-bit timers: 1 x 6-ch, 2 x 3-ch
- 12-bit 24 channel A-to-D converter
- 2 analog comparators
- Up to 70 general purpose I/O
- System integration (PLL, SW Watchdog)
- Integrated 1-pin BDM interface

Power Consumption
- Ultra-Low Power
- Internal Clock Source (ICS)
- Vreg with fast start up and low regulation voltage
- Low power 32 kHz oscillator
- Optimize clock tree and clock gating techniques

Development Tools:

DEMOQE128
Includes S08 and ColdFire V1 daughter cards, serial port and built-in USB-BDM cable for debugging and programming.

EVBQE128
Includes socket to enable full evaluation of both MC9S08QE128 and MCF51QE128 devices.

CodeWarrior Development Studio for Microcontrollers 6.0
Complimentary Special Edition
Single tool suite that supports software development for both 8-bit or 32-bit and includes rapid application development tool, Processor Expert.

High Performance, Low Power, PowerQUICC Processors Power Everyday Applications

MPC8313 Processor

The MPC8313 serves end users with high performance, security and integrated software, providing reliability and ease of use. Designers benefit from its legacy SoC, lower pin count and high speed peripherals like SGMII and DDRII. The MPC8313 PowerQUICC™ processor, integrates hardware for Ethernet and serial communications, DDR memory interfaces, USB ports, security and other popular inputs and outputs in a low power (<2W) envelope. Freescale also offers a cost effective evaluation board and drivers for this PowerQUICC family of processors, as well as CodeWarrior® development tools that will help speed a design to market.

Target Applications

Industrial
- Video Surveillance
- Instrumentation Panel
- Security Systems
- Test & Measurement
- Sensing
- Industrial Control/Automation

Home Media
- Printer (MFP/Mono/Color)
- Residential Gateway
- Network Attached Storage
- Digital Media Server

Networking
- WiFi Access Points
- Wimax CPE
- Routers/Switches
- Control Cards

Development Tools

The MPC8313E has an extensive ecosystem of hardware and software tools. Freescale has partnered with several leading software vendors to provide quick time-to-market designs for Residential Gateways (Kenati), Digital Media Servers (Mediabolic) and Consumer NAS (Axentra) solutions.

MPC8313E-RDB
- **Features:** 128MB DDR2 SDRAM, 8MB Flash, 32MB NAND Flash, SD connector, five GigE ports, USB 2.0 port, PCI interface, DUART
- **Tools and Software**
  - CodeWarrior 8.8 (6-month free license)
  - Linux v2.6 with drivers for SATA, 4-port GigE Switch (Vitesse), USB, IEEE1588, and power management
  - CPE form factor board
  - WindRiver VXWorks
  - IXXAT IEEE1588

Features

- **Flexible Connectivity**
  - 10/100/1000 Ethernet controller with SGMII interface
  - High Speed USB interface (integrated PHY)
  - DDR1 & 2
- **Efficient Performance**
  - Up to ~700 MIPS CPU performance
- **Power Management**
  - <1.5W at 333MHz
  - Fan-less operation
  - Multiple power down modes
- **Scalability**
  - Range of products from low cost consumer devices to high performance SMB applications, enabling customers to easily move up and down the value-chain
  - Legacy code support

Processor Options

MPC8313CVRAFF
MPC8313ECVRAFF
MPC8313ZQAFF
MPC8313EZQAFF
MPC8313CZQAFF
MPC8313ECZQAFF
MPC8313EVRAFF
MPC8313VRAFF

MPC8313 will transition to Rev. 2.0 silicon with limited availabilty. Append part number with an A for ordering, MPC8313CVRAFFA.

freescale semiconductor

8-16 Bit Development Tools

MultiLink

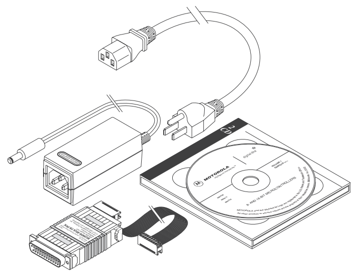

The MultiLink is an easy-to-use, low cost development tool for the Freescale HC(S)08 and HC(S)12 MCUs. It provides In-Circuit emulation, debugging and programming through the MON08 (HC08) and BDM (HC12, HCS08) interfaces.

Features:

• Universal development tool for HC(S)08 and HC(S)12 MCUs • Real-Time In-Circuit emulation and debug • Fast In-Circuit programming • Auto-detects baud rate and frequency • Provides optional overdrive clock to target • Small size • Supports 2V ~ 5.5V • Auto-cycle power for security checks (up to 125mA) • Universal power supply (included).

The M68CYCLONEPRO provides all the same capabilities of the MultiLinks, with the ability to function as a standalone programmer, with pushbuttons and LEDs to control operation. Also provides support for 1.8V operation.

M68CYCLONEPROE-ND	HC(S)08, HC(S)12, USB	**$499.05**
USBMULTILINK08E-ND	HC08s, USB	**$99.05**
USBMULTILINKBDME-ND	HC(S)08, HC(S)12, USB	**$106.92**

32-Bit Microcontrollers

ColdFire™ the highly integrated ColdFire series of processors allow for advanced performance at low cost. Rich peripheral sets and development tools make these processors both easy to use and highly functional. The variable length RISC architecture enable this processor to save system memory and cost.

PowerPC™ series of processors from Freescale Semiconductor, Inc. are the ideal foundation for RISC embedded applications. Features include high scalability and code compatibility over the entire line.

M-Core™ with an emphasis on low power consumption, the M-CORE series of processors are the ideal match for handheld and other low-power applications, which require high performance.

68K series of processors are ideal for the engineer looking for high performance at a reduced cost. The wide array of 68K processors can suit most any application.

i.MX™ based on ARM® core technology and designed for use in smartphones, wireless PDAs, mobile entertainment and many other mobile wireless applications, Freescales's i.MX family is engineered to offer smart speed-low power consumption with MHz performance to spare, and a high degree of integration to reduce your design time significantly.

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
ColdFire*™ *Processors															
1K	4K	—	4	TDM, USB	—	—	3.3	66	-40 ~ 85	196-BGA	MCF5272VM66-ND◆	15.65	14.36	12.39	MCF5272VM66
	4K	—	4	TDM, USB	—	—	3.3	66	-40 ~ 85	196-BGA	MCF5272CVM66-ND◆	17.87	16.40	14.96	MCF5272CVM66
2K	64K	256K	8+4 DMA	3 Asynch., QSPI	8-Ch., 10-Bit QADC	—	3.3, 5.0	66	0 ~ 70	256-MAPBGA	MCF5214CVM66-ND◆	19.00	17.36	15.88	MCF5214CVM66
	64K	—	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10 Bit QADC	See Timer	3.3, 5.0	66	-40 ~ 85	256-MAPBGA	MCF5280CVM66-ND◆	22.85	20.97	19.13	MCF5280CVM66
	64K	—	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	80	-40 ~ 85	256-MAPBGA	MCF5280CVM80-ND◆	27.40	25.15	22.94	MCF5280CVM80
	64K	256K	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	66	-40 ~ 85	256-MAPBGA	MCF5281CVM66-ND◆	25.60	23.50	21.44	MCF5281CVM66
	64K	256K	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	80	-40 ~ 85	256-MAPBGA	MCF5281CVF80-ND	29.08	26.48	24.83	MCF5281CVF80
	64K	256K	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	80	-40 ~ 85	256-MAPBGA	MCF5281CVM80-ND◆	29.08	26.48	24.83	MCF5281CVM80
	64K	512K	8+4 DMA	3 Asynch., QSPI	8-Ch., 10-Bit QADC	—	3.3, 5.0	66	-40 ~ 85	256-MAPBGA	MCF5216CVM66-ND◆	20.51	18.82	17.17	MCF5216CVM66
4K	8K	—	2	2 Asynch.	—	—	3.3	40	0 ~ 70	160-QFP	MCF5206ECAB40-ND◆	15.95	14.64	13.36	MCF5206ECAB40
	8K	—	2	2 Asynch.	—	—	3.3	40	0 ~ 70	160-QFP	MCF5206EAB40-ND◆	12.87	11.81	10.78	MCF5206EAB40
	8K	—	2	2 Asynch.	—	—	3.3	54	0 ~ 70	160-QFP	MCF5206EAB54-ND◆	15.95	14.64	13.36	MCF5206EAB54
8K	4K	—	2	I^{2}C, UART	—	—	3.3	66	-40 ~ 85	208-FQFP	MCF5307CAI66B-ND◆	25.28	23.20	21.16	MCF5307CAI66B
	16K	—	16-32 Bit	QSPI, UART	—	—	3.3	166	-40 ~ 85	144-MAPBGA	MCF5207CVM166-ND◆	9.21	7.63	6.96	MCF5207CVM166
	64K	—	24	3 Asynch., QSPI, CAN 2.0b	—	—	1.5, 3.3	80	-40 ~ 85	160-QFP	MCF5232CAB80-ND◆	16.07	14.75	13.45	MCF5232CAB80
	64K	—	24	3 Asynch., QSPI, CAN 2.0b	—	—	1.5, 3.3	100	-40 ~ 85	196-MAPBGA	MCF5232CVM100-ND ◆	16.07	14.75	13.45	MCF5232CVM100
	64K	—	24	3 Asynch., QSPI, CAN 2.0b	—	—	1.5, 3.3	150	-40 ~ 85	196-MAPBGA	MCF5232CVM150-ND	21.28	19.53	17.81	MCF5232CVM150
	64K	—	40	3 Asynch., QSPI, 2-CAN 2.0b	—	—	1.5, 3.3	100	-40 ~ 85	256-MAPBGA	MCF5233CVM100-ND	21.70	19.91	18.17	MCF5233CVM100
	64K	—	40	3 Asynch., QSPI, 2-CAN 2.0b	—	—	1.5, 3.3	150	-40 ~ 85	256-MAPBGA	MCF5233CVM150-ND◆	26.87	24.66	22.50	MCF5233CVM150
	64K	—	24	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	-40 ~ 85	256-MAPBGA	MCF5234CVM100-ND◆	20.89	19.17	17.49	MCF5234CVM100
	64K	—	24	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	150	-40 ~ 85	256-MAPBGA	MCF5234CVM150-ND	26.06	23.92	21.82	MCF5234CVM150
	64K	—	24	3 Asynch., QSPI, 2-CAN 2.0b	—	—	1.5, 3.3	100	-40 ~ 85	256-MAPBGA	MCF5235CVM100-ND	24.11	22.13	20.19	MCF5235CVM100
	64K	—	24	3 Asynch., QSPI, 2-CAN 2.0b, IIC	—	—	1.5, 3.3	150	-40 ~ 85	256-MAPBGA	MCF5235CVM150-ND	26.86	24.47	22.94	MCF5235CVM150
	64K	—	8	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	0 ~ 70	160-QFP	MCF5270AB100-ND◆	11.78	10.81	9.86	MCF5270AB100
	64K	—	8	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	-40 ~ 85	196-MAPBGA	MCF5271CVM100-ND◆	14.92	13.69	12.49	MCF5271CVM100
	64K	—	8	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	-40 ~ 85	160-QFP	MCF5271CAB100-ND◆	14.92	13.69	12.49	MCF5271CAB100
	96K	—	2	I^{2}C, UART	—	—	3.3	140	-40 ~ 85	160-BGA	MCF5249VM140-ND◆	13.54	12.73	12.43	MCF5249VM140
	96K	—	2	I^{2}C, UART	—	—	3.3	120	-40 ~ 85	144-LQFP	MCF5249LCAG120-ND◆	13.56	12.75	12.44	MCF5249LCAG120
	96K	—	2	I^{2}C, UART	—	—	3.3	120	-40 ~ 85	144-LQFP	MCF5249LAG120-ND◆	12.89	11.83	10.79	MCF5249LAG120
	96K	—	2	I^{2}C, UART	—	—	3.3	140	-40 ~ 85	160-MAPBGA	MCF5249CVM140-ND◆	14.21	13.04	11.25	MCF5249CVM140
16K	64K	—	8	3 Asynch., QSPI, IIC	—	4-Ch.	1.5, 2.5, 3.3	166	0 ~ 70	196-MAPBGA	MCF5274LVM166-ND◆	12.95	11.88	10.84	MCF5274LVM166
	64K	—	8	3 Asynch., QSPI, IIC, USB 2.0	—	4-Ch.	1.5, 2.5, 3.3	166	0 ~ 70	256-MAPBGA	MCF5274VM166-ND◆	16.09	14.76	13.47	MCF5274VM166
	64K	—	8	3 Asynch., QSPI, IIC, USB 2.0	—	4-Ch.	1.5, 2.5, 3.3	166	-40 ~ 85	196-MAPBGA	MCF5275LCVM166-ND	16.09	14.76	13.47	MCF5275LCVM166
	64K	—	8	3 Asynch., QSPI, IIC, USB 2.0	—	4-Ch.	1.5, 2.5, 3.3	166	-40 ~ 85	256-MAPBGA	MCF5275CVM166-ND◆	19.23	17.65	16.10	MCF5275CVM166
24K	4K	—	2	I^{2}C, UART	—	—	3.3	220	-40 ~ 85	208-FQFP	MCF5407CAI220-ND◆	50.10	45.97	41.94	MCF5407CAI220
	4K	—	2	I^{2}C, UART	—	—	3.3	162	-40 ~ 85	208-FQFP	MCF5407CAI162-ND◆	44.31	40.66	37.10	MCF5407CAI162
	4K	—	2	I^{2}C, UART	—	—	3.3	220	-40 ~ 85	208-FQFP	MCF5407AI220-ND◆	44.31	40.66	37.10	MCF5407AI220
	4K	—	2	I^{2}C, UART	—	—	3.3	162	-40 ~ 85	208-FQFP	MCF5407AI162-ND◆	36.58	33.56	30.62	MCF5407AI162
64K	64K	512K	8-16 Bit	I^{2}C, UART	—	—	5.0	66	-40 ~ 85	256-BGA	MCF5282CVM66-ND◆	27.84	25.55	23.31	MCF5282CVM66
	64K	512K	8-16 Bit	I^{2}C, UART	—	—	5.0	80	-40 ~ 85	256-BGA	MCF5282CVM80-ND◆	33.42	30.66	27.98	MCF5282CVM80
	32K	—	6	4 Asynch., SPI, IIC	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5471ZP200-ND	31.18	29.45	27.72	MCF5471ZP200
	32K	—	6	4 Asynch., SPI, IIC	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5471VR200-ND◆	32.17	29.52	26.94	MCF5471VR200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5472VR200-ND◆	27.33	25.08	22.88	MCF5472VR200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5473ZP200-ND	31.18	29.45	27.72	MCF5473ZP200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5474ZP200-ND	29.68	28.04	26.39	MCF5474ZP200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5474VR200-ND◆	28.13	25.62	24.02	MCF5474VR200

◆ ***RoHS Compliant*** † 4-Channel DMA § Cut Tape ‡ Tape and Reel

(Continued)

freescale semiconductor

32-Bit Microcontrollers *(Cont.)*

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Freescale Part No.
64K	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	266	0 ~ 70	388-PBGA	MCF5474VR266-ND◆	32.17	29.52	26.94	MCF5474VR266
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5475VR200-ND◆	35.48	32.56	29.71	MCF5475VR200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	266	0 ~ 70	388-PBGA	MCF5475VR266-ND◆	37.02	33.97	30.99	MCF5475VR266
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN	—	—	1.5, 2.5, 3.3	166	-40 ~ 85	388-PBGA	MCF5480CVR166-ND◆	32.15	29.50	26.92	MCF5480CVR166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	166	-40 ~ 85	388-PBGA	MCF5482CVR166-ND◆	32.15	29.50	26.92	MCF5482CVR166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	166	-40 ~ 85	388-PBGA	MCF5483CZP166-ND	35.87	33.89	31.89	MCF5483CZP166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	166	-40 ~ 85	388-PBGA	MCF5483CVR166-ND◆	37.00	33.95	30.97	MCF5483CVR 166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	200	-40 ~ 85	388-PBGA	MCF5484CVR200-ND◆	37.86	34.74	31.70	MCF5484CVR200
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	200	-40 ~ 85	388-PBGA	MCF5485CVR200-ND◆	42.69	39.17	35.74	MCF5485CVR200
	32K	—	6	4 Asynch., SPI, IIC	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5470VR200-ND◆	27.33	25.08	22.88	MCF5470VR200
—	512	—	2	2 Asynch.	—	—	5.0	25	0 ~ 70	160-QFP	MCF5206FT25A-ND	24.39	19.13	18.02	MCF5206FT25A
	4K	—	2	2 Asynch.	—	—	3.3	66	0 ~ 70	208-FQFP	MCF5307AI66B-ND◆†	20.57	18.87	17.22	MCF5307AI66B
	4K	—	2	2 Asynch.	—	—	3.3	90	0 ~ 70	208-FQFP	MCF5307AI90B-ND◆†	27.10	24.87	22.69	MCF5307AI90B
	16K	128K	4-32 Bit	QSPI, USBOTG, 3-UARTs	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	66	-40 ~ 85	64-LQFP	MCF52221CAE66-ND◆	9.38	7.77	7.09	MCF52221CAE66
	16K	128K	4-32 Bit	QSPI, USBOTG, 3-UARTs	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	66	-40 ~ 85	100-LQFP	MCF52221CAF66-ND◆	10.42	8.63	7.88	MCF52221CAF66
	16K	128K	4-32 Bit	QSPI, USBOTG, 3-UARTs	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	80	-40 ~ 85	100-LQFP	MCF52221CAF80-ND◆	9.80	9.00	8.21	MCF52221CAF80
	16K	128K	4-32 Bit	QSPI, USBOTG, 3-UARTs	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	66	-40 ~ 85	81-MAPBGA	MCF52221CVM66-ND◆	10.25	8.49	7.75	MCF52221CVM66
	16K	128K	4-32 Bit	QSPI, USBOTG, 3-UARTs	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	80	-40 ~ 85	81-MAPBGA	MCF52221CVM80-ND◆	10.19	9.35	8.53	MCF52221CVM80
	32K	128K	4-32 Bit	UART, I^2C	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	60	-40 ~ 85	112-LQFP	MCF52230CAL60-ND◆	12.79	11.74	10.71	MCF52230CAL60
	32K	128K	4-32 Bit	CAN 2.0, I^2C	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	60	-40 ~ 85	112-LQFP	MCF52231CAL60-ND◆	13.69	12.57	10.84	MCF52231CAL60
	32K	256K	4-32 Bit	QSPI, USBOTG, 3-UARTs	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	66	-40 ~ 85	100-LQFP	MCF52223CAF66-ND◆	10.95	10.05	9.17	MCF52223CAF66
	32K	256K	4-32 Bit	QSPI, USBOTG, 3-UARTs	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	80	-40 ~ 85	100-LQFP	MCF52223CAF80-ND◆	11.34	10.41	9.49	MCF52223CAF80
	32K	256K	4-32 Bit	QSPI, USBOTG, 3-UARTs	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	66	-40 ~ 85	81-MAPBGA	MCF52223CVM66-ND◆	10.78	9.90	9.03	MCF52223CVM66
	32K	256K	4-32 Bit	QSPI, USBOTG, 3-UARTs	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	80	-40 ~ 85	81-MAPGA	MCF52223CVM80-ND◆	11.82	10.85	9.36	MCF52223CVM80
	32K	256K	4-32 Bit	UART, I^2C	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	60	-40 ~ 85	112-LQFP	MCF52233CAL60-ND◆	13.88	12.74	11.63	MCF52233CAL60
	32K	256K	4-32 Bit	CAN 2.0, UART, I^2C	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	60	-40 ~ 85	112-LQFP	MCF52234CAL60-ND◆	14.69	13.48	12.30	MCF52234CAL60
	32K	256K	4-32 Bit	CAN 2.0, UART, I^2C	8-Ch., 12-Bit	8/4Ch., 8/16-Bit	3.3	60	-40 ~ 85	112-LQFP	MCF52235CAL60-ND◆	17.66	16.20	14.78	MCF52235CAL60
	32K	—	4-32 Bit	QSPI, 3-UARTs	—	—	3.3	240	-40 ~ 85	196-MAPBGA	MCF5327CVM240-ND◆	15.70	14.41	13.15	MCF5327CVM240
	32K	—	4-32 Bit	QSPI, 3-UARTs	—	—	3.3	240	-40 ~ 85	196-MAPBGA	MCF5372LCVM240-ND◆	17.27	15.85	14.46	MCF5372LCVM240
PowerPC™ Processors															
8K	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	100	-40 ~ 85	256-PBGA	MPC852TCVR100A-ND◆	21.95	20.14	18.38	MPC852TCVR100A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	50	-40 ~ 85	256-PBGA	MPC852TCVR50A-ND◆	14.94	13.71	12.51	MPC852TCVR50A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	66	-40 ~ 85	256-PBGA	MPC852TCVR66A-ND	16.89	15.50	14.14	MPC852TCVR66A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	80	-40 ~ 85	256-PBGA	MPC852TCVR80A-ND	23.33	18.30	17.24	MPC852TCVR80A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	80	-40 ~ 85	256-PBGA	MPC852TCZT80A-ND	23.33	18.30	17.24	MPC852TCZT80A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	100	-40 ~ 85	256-PBGA	MPC852TVR100A-ND	20.32	18.65	17.01	MPC852TVR100A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	50	-40 ~ 85	256-PBGA	MPC852TVR50A-ND◆	13.83	12.69	10.95	MPC852TVR50A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	80	-40 ~ 85	256-PBGA	MPC852TVR80A-ND	21.61	16.95	15.97	MPC852TVR80A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	66	-40 ~ 85	256-PBGA	MPC852TVR66A-ND◆	15.65	14.36	13.10	MPC852TVR66A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	80	-40 ~ 85	256-PBGA	MPC852TZT80A-ND	21.61	16.95	15.97	MPC852TZT80A
	—	—	—	PCMCIA, SPI	—	—	3.3	66	0 ~ 105	256-PBGA	MPC853TVR66A-ND◆	21.07	16.53	15.57	MPC853TVR66A
	—	—	4-16 Bit	PCMCIA, I^2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC855TCVR50D4-ND◆	43.75	33.25	32.33	MPC855TCVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	0 ~ 105	357-PBGA	MPC855TVR50D4-ND◆	40.52	30.79	29.94	MPC855TVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	0 ~ 105	357-PBGA	MPC855TVR66D4-ND◆	41.36	34.45	32.41	MPC855TVR66D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	80	-40 ~ 105	357-PBGA	MPC855TVR80D4-ND◆	46.42	38.67	36.38	MPC855TVR80D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 105	357-PBGA	MPC857DSLVR50B-ND◆	25.04	22.85	21.61	MPC857DSLVR50B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC857DSLCVR66B-ND◆	39.66	30.14	29.30	MPC857DSLCVR66B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC857TCVR66B-ND◆	52.32	43.58	41.00	MPC857TCVR66B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC857TVR66B-ND◆	39.83	36.34	34.37	MPC857TVR66B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	100	-40 ~ 105	357-PBGA	MPC857TVR100B-ND◆	56.72	52.05	47.49	MPC857TVR100B
	—	—	4-16 Bit	PCMCIA, I^2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC859DSLCVR50A-ND◆	30.75	24.12	22.72	MPC859DSLCVR50A
	—	—	4-16 Bit	PCMCIA, I^2C, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC859DSLCZP66A-ND	34.21	26.83	25.28	MPC859DSLCZP66A
	—	—	4-16 Bit	PCMCIA, I^2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC859TCVR100A-ND◆	50.29	41.88	39.41	MPC859TCVR100A
	—	—	4-16 Bit	PCMCIA, I^2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC859TZP100A-ND	46.57	38.79	36.49	MPC859TZP100A
	—	—	4-16 Bit	PCMCIA, I^2C, SPI	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC859TVR133A-ND◆	45.65	41.89	38.22	MPC859TVR133A
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860DECVR50D4-ND◆	59.42	49.49	46.56	MPC860DECVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 105	357-PBGA	MPC860DEVR50D4-ND◆	55.01	45.82	43.11	MPC860DEVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC860DEVR66D4-ND◆	60.53	50.41	47.43	MPC860DEVR66D4
	—	—	4-16 Bit	PCMCIA, I^2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860DEZQ50D4-ND	55.01	45.82	43.11	MPC860DEZQ50D4
	—	—	4-16 Bit	PCMCIA, I^2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860DEZQ80D4-ND	72.63	58.82	56.91	MPC860DEZQ80D4
	—	—	4-16 Bit	PCMCIA, I^2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860DTVR50D4-ND◆	60.69	50.55	47.56	MPC860DTVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC860DTVR66D4-ND◆	66.19	53.60	51.87	MPC860DTVR66D4
	—	—	4-16 Bit	PCMCIA, I^2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860DTVR80D4-ND◆	78.29	63.40	61.35	MPC860DTVR80D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC860ENCVR66D4-ND◆	77.60	62.84	60.81	MPC860ENCVR66D4

◆ ***RoHS Compliant*** † 4-Channel DMA § Cut Tape ‡ Tape and Reel

(Continued)

32-Bit Microcontrollers *(Cont.)*

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
8K	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 105	357-PBGA	MPC860ENVR50D4-ND◆	66.35	53.73	51.99	MPC860ENVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC860ENVR66D4-ND◆	71.85	58.18	56.30	MPC860ENVR66D4
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860ENVR80D4-ND◆	84.68	67.98	64.26	MPC860ENVR80D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC860SRCVR66D4-ND◆	84.44	67.79	64.08	MPC860SRCVR66D4
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860SRVR50D4-ND◆	72.01	58.31	56.42	MPC860SRVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC860SRVR66D4-ND◆	77.52	62.78	60.75	MPC860SRVR66D4
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860SRVR80D4-ND◆	90.41	72.58	68.61	MPC860SRVR80D4
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860SRZQ80D4-ND	84.76	72.58	68.61	MPC860SRZQ80D4
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860TCVR50D4-ND◆	77.78	62.98	60.95	MPC860TCVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 115	357-PBGA	MPC860TCVR66D4-ND◆	84.44	67.79	64.08	MPC860TCVR66D4
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860TVR50D4-ND◆	72.01	58.31	56.42	MPC860TVR50D4
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC860TVR66D4-ND◆	77.52	62.78	60.75	MPC860TVR66D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	80	0 ~ 105	357-PBGA	MPC860TVR80D4-ND◆	90.41	72.58	68.61	MPC860TVR80D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	80	-40 ~ 115	357-PBGA	MPC862TCVR80B-ND◆	102.53	82.31	77.81	MPC862TCVR80B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	5.0	100	-40 ~ 85	357-PBGA	MPC866PCVR100A-ND◆	87.58	70.30	66.46	MPC866PCVR100A
	—	—	4-16 Bit	PCMCIA, SPI	—	—	5.0	100	-40 ~ 105	357-PBGA	MPC866PVR100A-ND◆	78.93	63.92	61.85	MPC866PVR100A
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC866TCVR100A-ND◆	72.85	66.84	60.98	MPC866TCVR100A
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC866TVR100A-ND◆	73.91	59.86	57.92	MPC866TVR100A
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC866TVR133A-ND◆	70.72	64.89	59.20	MPC866TVR133A
16K	—	—	4-16 Bit	I^{2}C, SPI, TDM, IrDA	—	—	3.3	50	-40 ~ 105	357-PBGA	MC860DECVR50D4R2CT-ND◆§	59.42	49.49	46.56	MC860DECVR50D4R2
	—	—	4-16 Bit	I^{2}C, SPI, TDM, IrDA	—	—	3.3	50	-40 ~ 105	357-PBGA	MC860DECVR50D4R2TR-ND◆‡	8187.28/180			MC860DECVR50D4R2
	—	—	4-16 Bit	I^{2}C, SPI, TDM, IrDA	—	—	3.3	50	-40 ~ 105	357-PBGA	MC860ENCVR50D4R2CT-ND◆§	71.65	58.03	56.15	MC860ENCVR50D4R2
	—	—	4-16 Bit	I^{2}C, SPI, TDM, IrDA	—	—	3.3	50	-40 ~ 105	357-PBGA	MC860ENCVR50D4R2TR-ND◆‡	9872.44/180			MC860ENCVR50D4R2
	—	—	4-16 Bit	I^{2}C, SPI, TDM, IrDA	—	—	3.3	50	-40 ~ 105	357-PBGA	MC860SRCVR50D4R2CT-ND◆§	77.78	62.98	60.95	MC860SRCVR50D4R2
	—	—	4-16 Bit	I^{2}C, SPI, TDM, IrDA	—	—	3.3	50	-40 ~ 105	357-PBGA	MC860SRCVR50D4R2TR-ND◆‡	10716.13/180			MC860SRCVR50D4R2
	—	—	—	60X	—	—	2.5	200	-40 ~ 85	255-PBGA	MPC603RZT200LC-ND	47.27	39.37	37.04	MPC603RZT200LC
	—	—	—	60X	—	—	2.5	300	-40 ~ 85	256-CBGA	MPC603RRX300LC-ND	95.17	—	—	MPC603RRX300LC
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	133	-40 ~ 85	256-PBGA	MPC870CVR133-ND◆	19.34	17.75	16.20	MPC870CVR133
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	133	-40 ~85	256-PBGA	MPC870VR133-ND◆	17.89	16.42	14.98	MPC870VR133
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	66	-40 ~ 85	256-PBGA	MPC870VR66-ND◆	16.24	14.90	13.60	MPC870VR66
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	80	-40 ~ 85	256-PBGA	MPC870VR80-ND◆	17.06	15.66	14.29	MPC870VR80
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	133	-40 ~ 85	256-PBGA	MPC875CVR133-ND◆	32.91	25.81	24.32	MPC875CVR133
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	66	-40 ~ 85	256-PBGA	MPC875CVR66-ND◆	24.40	22.39	20.43	MPC875CVR66
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	133	-40 ~ 85	256-PBGA	MPC875VR133-ND◆	24.91	22.86	20.86	MPC875VR133
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	66	-40 ~ 85	256-PBGA	MPC875VR66-ND◆	20.72	18.90	17.88	MPC875VR66
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	80	-40 ~ 85	256-PBGA	MPC875VR80-ND◆	29.01	22.76	21.43	MPC875VR80
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC880CVR133-ND◆	34.45	31.61	28.84	MPC880CVR133
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC880CVR66-ND◆	38.21	29.04	28.24	MPC880CVR66
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC880VR133-ND◆	29.25	26.69	25.25	MPC880VR133
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC880VR66-ND◆	28.94	26.55	24.23	MPC880VR66
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC880VR80-ND◆	37.14	28.23	27.44	MPC880VR80
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC885CVR133-ND◆	41.98	38.52	35.14	MPC885CVR133
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC885CVR66-ND◆	42.50	35.40	33.30	MPC885CVR66
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC885VR133-ND◆	38.87	35.67	32.55	MPC885VR133
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC885ZP66-ND	43.13	32.78	31.87	MPC885ZP66
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC885VR66-ND◆	35.26	32.35	29.52	MPC885VR66
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI, USB	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC885VR80-ND◆	41.31	34.41	32.37	MPC885VR80
	—	—	—	I^{2}C, SPI	—	—	3.3	400	-40 ~ 85	272-PBGA	MPC5200CVR400B-ND◆	29.17	26.76	24.42	MPC5200CVR400B
	—	—	—	I^{2}C, SPI, CAN 2.0	—	—	3.3	400	-40 ~ 85	272-PBGA	MPC5200VR400B-ND◆	26.81	24.60	22.45	MPC5200VR400B
24K	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC859PZP100A-ND	51.36	42.78	40.25	MPC859PZP100A
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC859PVR133A-ND◆	50.50	46.34	42.28	MPC859PVR133A
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860PCVR50D4-ND◆	87.71	70.41	66.56	MPC860PCVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC860PCVR66D4-ND◆	93.71	75.22	71.11	MPC860PCVR66D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 105	357-PBGA	MPC860PVR50D4-ND◆	81.21	65.19	61.62	MPC860PVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC860PVR66D4-ND◆	86.77	69.66	65.85	MPC860PVR66D4
	—	—	4-16 Bit	PCMCIA, I^{2}C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860PVR80D4-ND◆	98.98	79.46	75.11	MPC860PVR80D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 115	357-PBGA	MPC862PCVR66B-ND◆	98.39	78.99	74.67	MPC862PCVR66B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	80	-40 ~ 115	357-PBGA	MPC862PCVR80B-ND◆	112.24	90.10	85.17	MPC862PCVR80B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	0 ~ 105	357-PBGA	MPC862PVR66B-ND◆	91.10	73.13	69.13	MPC862PVR66B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	100	0 ~ 105	357-PBGA	MPC862PVR100B-ND◆	99.69	91.47	83.46	MPC862PVR100B
	—	—	4-16 Bit	I^{2}C, UART	—	—	5.0	80	-40 ~ 105	357-PBGA	MPC862TVR80B-ND◆	94.93	76.21	72.04	MPC862TVR80B
	—	—	4-16 Bit	PCMCIA, I^{2}C,SPI	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC866PVR133A-ND◆	77.50	71.11	64.88	MPC866PVR133A
32K	—	—	—	QSMCM	—	—	3.3	40	-40 ~ 105	272-PBGA	MPC555LFCVR40-ND◆	71.33	65.45	59.72	MPC555LFCVR40
	—	448K	50-Ch.	QSMCM	2 QADC64	8	3.3	40	-40 ~ 85	272-PBGA	MPC555LFMVR40-ND◆	78.46	71.99	65.68	MPC555LFMVR40
	—	—	—	SPI, I^{2}C	—	—	3.3	266	-40 ~ 105	272-PBGA	MPC5200CVR266-ND◆	41.88	38.43	35.06	MPC5200CVR266
	—	—	8-Ch.	IIC, SPI, CAN 2.0, USB 1.1	—	See Timer	3.3	400	-40 ~ 85	272-PBGA	MPC5200CVR400-ND◆	46.19	42.38	38.67	MPC5200CVR400
	—	—	—	SPI, I^{2}C	—	—	3.3	400	-40 ~ 85	272-PBGA	MPC5200VR400-ND◆	45.17	41.45	37.82	MPC5200VR400
	—	—	4-Ch.	DUART, IIC	—	—	3.3	166	-40 ~ 85	357-PBGA	MPC8241LVR166D-ND◆	23.91	18.76	17.67	MPC8241LVR166D

◆ ***RoHS Compliant*** † 4-Channel DMA § Cut Tape ‡ Tape and Reel

(Continued)

32-Bit Microcontrollers *(Cont.)*

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temper-ature (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
												1	25	100	
32K	—	—	—	I^{2}C	—	—	3.3	266	0 ~ 105	357-PBGA	MPC8241LVR266D-ND◆	27.75	25.46	23.23	MPC8241LVR266D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	266	-40 ~ 85	352-TBGA	MPC8245LVV266D-ND◆	43.14	39.59	36.12	MPC8245LVV266D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	300	-40 ~ 85	352-TBGA	MPC8245LVV300D-ND◆	57.28	47.70	44.88	MPC8245LVV300D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	333	-40 ~ 85	352-TBGA	MPC8245LVV333D-ND◆	54.27	49.80	45.43	MPC8245LVV333D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	350	-40 ~ 85	352-TBGA	MPC8245LVV350D-ND◆	71.32	57.75	55.88	MPC8245LVV350D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	266	-40 ~ 85	352-TBGA	MPC8245TVV266D-ND◆	62.61	52.15	49.06	MPC8245TVV266D
	—	—	—	I^{2}C	—	—	3.3	300	0 ~ 105	352-TBGA	MPC8245TVV300D-ND◆	74.46	60.30	58.35	MPC8245TVV300D
	—	—	—	I^{2}C	—	—	3.3	333	-40 ~ 115	352-TBGA	MPC8245TVV333D-ND◆	78.72	63.75	61.69	MPC8245TVV333D
	—	—	—	I^{2}C	—	—	3.3	350	-40 ~ 115	352-TBGA	MPC8245TVV350D-ND◆	87.67	75.07	70.96	MPC8245TVV350D
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8247CVRMIBA-ND◆	32.90	30.19	27.54	MPC8247CVRMIBA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8247CVRPIEA-ND◆	37.17	34.11	31.12	MPC8247CVRPIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8247CVRTIEA-ND◆	44.60	40.93	37.34	MPC8247CVRTIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8247VRMIBA-ND◆	27.44	25.04	23.68	MPC8247VRMIBA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8247VRPIEA-ND◆	37.72	31.42	29.56	MPC8247VRPIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8247VRTIEA-ND◆	40.56	37.22	33.96	MPC8247VRTIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8247VRTMFA-ND◆	50.70	42.23	39.73	MPC8247VRTMFA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8248CVRMIBA-ND◆	38.50	32.07	30.17	MPC8248CVRMIBA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8248CVRPIEA-ND◆	38.99	35.78	32.64	MPC8248CVRPIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8248CVRTIEA-ND◆	46.80	42.95	39.18	MPC8248CVRTIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8248VRMIBA-ND◆	31.37	28.78	26.26	MPC8248VRMIBA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8248VRPIEA-ND◆	35.47	32.54	29.69	MPC8248VRPIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8248VRTIEA-ND◆	42.53	39.03	35.61	MPC8248VRTIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8248VRTMFA-ND◆	43.73	39.90	37.74	MPC8248VRTMFA
	—	—	4-Ch.	SPI, I^{2}C, TDM, UTOPIA	—	—	3.3	300	-40 ~ 115	516-PBGA	MPC8250ACVRIHBC-ND◆	59.38	54.49	49.71	MPC8250ACVRIHBC
	—	—	4-Ch.	SPI, I^{2}C, TDM, UTOPIA	—	—	3.3	300	0 ~ 105	516-PBGA	MPC8250AVRIHBC-ND◆	53.98	49.53	45.19	MPC8250AVRIHBC
	—	—	4-Ch.	IIC, MII, SPI, UART	—	—	3.3	200	0 ~ 105	480-TBGA	MPC8250AVVPIBC-ND◆	101.25	92.90	84.76	MPC8250AVVPIBC
	—	—	4-Ch.	SPI, I^{2}C, TDM, UTOPIA	—	—	3.3	300	-40 ~ 115	480-TBGA	MPC8255ACVVMHBB-ND◆	144.24	115.79	109.45	MPC8255ACVVMHBB
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA	—	—	3.3	300	0 ~ 105	480-TBGA	MPC8255AVVMHBB-ND◆	131.12	105.26	99.50	MPC8255AVVMHBB
	—	—	4-16 Bit	I^{2}C, MII, SPI, TDM	—	—	3.3	300	-40 ~ 85	480-TBGA	MPC8260ACVVMHBB-ND◆	146.39	126.99	121.32	MPC8260ACVVMHBB
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA	—	—	3.3	300	-40 ~ 105	480-TBGA	MPC8260ACVVMIBB-ND◆	152.91	132.64	126.72	MPC8260ACVVMIBB
	—	—	4-Ch.	SPI, I^{2}C, TDM, UTOPIA	—	—	3.3	300	0 ~ 105	480-TBGA	MPC8260AVVPIBB-ND◆	146.39	126.99	121.32	MPC8260AVVPIBB
	—	—	4-16 Bit	I^{2}C, MII, SPI, TDM	—	—	3.3	300	-40 ~ 85	480-TBGA	MPC8260AVVPJDB-ND◆	153.12	139.71	125.50	MPC8260AVVPJDB
	—	—	4-Ch.	SPI, I^{2}C, TDM, UTOPIA	—	—	3.3	300	0 ~ 105	480-TBGA	MPC8265AVVPIBC-ND◆	163.62	141.93	135.60	MPC8265AVVPIBC
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	450	-40 ~ 115	516-FPBGA	MPC8270CVRMIBA-ND◆	54.48	49.71	47.02	MPC8270CVRMIBA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	450	-40 ~ 115	480-FTBGA	MPC8270CVVQLDA-ND◆	85.93	73.58	69.55	MPC8270CVVQLDA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	450	-40 ~ 115	480-FTBGA	MPC8270CVVUPEA-ND◆	97.67	89.61	81.76	MPC8270CVVUPEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	450	0 ~ 105	516-FPBGA	MPC8270VRMIBA-ND◆	53.96	49.52	45.18	MPC8270VRMIBA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	450	0 ~ 105	480-FTBGA	MPC8270VVQLDA-ND◆	78.09	66.86	63.21	MPC8270VVQLDA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	450	0 ~ 105	480-FTBGA	MPC8270VVUPEA-ND◆	88.80	81.48	74.34	MPC8270VVUPEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8271CVRMIBA-ND◆	42.11	35.08	33.00	MPC8271CVRMIBA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8271CVRTIEA-ND◆	57.11	47.57	44.76	MPC8271CVRTIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8271VRMIBA-ND◆	38.28	31.88	30.00	MPC8271VRMIBA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8271VRTIEA-ND◆	51.92	43.25	40.69	MPC8271VRTIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8272CVRMIBA-ND◆	36.09	32.93	31.14	MPC8272CVRMIBA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8272CVRTIEA-ND◆	59.55	49.60	46.67	MPC8272CVRTIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8272VRMIBA-ND◆	39.91	33.25	31.28	MPC8272VRMIBA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8272VRPIEA-ND◆	45.12	37.59	35.36	MPC8272VRPIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8272VRTIEA-ND◆	54.13	45.09	42.42	MPC8272VRTIEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8272VRTMFA-ND◆	54.33	49.85	45.48	MPC8272VRTMFA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	266	-40 ~ 115	516-FPBGA	MPC8275CVRMIBA-ND◆	83.59	71.58	67.66	MPC8275CVRMIBA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	266	0 ~ 105	516-FPBGA	MPC8275VRMIBA-ND◆	71.98	66.05	60.26	MPC8275VRMIBA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	300	-40 ~ 115	480-FTBGA	MPC8280CVVQLDA-ND◆	149.88	130.01	124.22	MPC8280CVVQLDA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	300	-40 ~ 115	480-FTBGA	MPC8280CVVUPEA-ND◆	163.68	149.34	134.16	MPC8280CVVUPEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	300	0 ~ 105	480-FTBGA	MPC8280VVUPEA-ND◆	148.80	135.76	121.96	MPC8280VVUPEA
	—	—	4-Ch.	SPI, I^{2}C, TDM, USB	—	—	3.3	300	0 ~ 105	480-FTBGA	MPC8280VVQLDA-ND◆	142.67	122.16	115.48	MPC8280VVQLDA
42K	—	—	54-Ch.	SCI, QSPI, TouCAN	—	—	3.3	40	-40 ~ 85	388-PBGA	MPC561CVR40-ND◆	33.13	30.40	27.74	MPC561CVR40
	—	—	54-Ch.	SCI, QSPI, TouCAN	2 QADC	12	2.6	56	-40 ~ 125	388-PBGA	MPC561MZP56-ND	36.44	33.44	30.51	MPC561MZP56
	—	—	54-Ch.	SCI, QSPI, TouCAN	2 QADC	12	2.6	56	-40 ~ 125	388-PBGA	MPC562MZP56-ND	41.90	38.45	35.08	MPC562MZP56
	—	512K	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40 ~ 85	388-PBGA	MPC563CVR40-ND◆	54.39	49.90	45.53	MPC563CVR40
	—	512K	—	SCI, QSPI, TouCAN	32-Ch., 10-Bit	—	5.0	56	-40 ~ 105	388-BGA	MPC563MVR56-ND◆	50.08	48.43	46.86	MPC563MVR56
	—	512K	—	SCI, QSPI, TouCAN	32-Ch., 10-Bit	—	5.0	56	-40 ~ 105	388-BGA	MPC564MVR56-ND◆	55.08	53.26	51.54	MPC564MVR56
46K	—	1M	70-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40 ~ 85	388-PBGA	MPC565CVR40-ND◆	77.71	71.30	65.05	MPC565CVR40
	—	1M	70-Ch.	QSMCM	2 QADC64E	12	2.6	56	-40 ~ 85	388-PBGA	MPC565CVR56-ND◆	81.60	74.87	68.31	MPC565CVR56
	—	1M	—	SCI, QSPI, TouCAN	40-Ch., 10-Bit	—	5.0	56	-40 ~ 105	388-BGA	MPC565MVR56-ND◆	89.37	82.00	74.82	MPC565MVR56
	—	1M	—	SCI, QSPI, TouCAN	40-Ch., 10-Bit	—	5.0	56	-40 ~ 105	388-BGA	MPC566CVR56-ND◆	89.76	82.36	71.06	MPC566CVR56
	—	1M	—	SCI, QSPI, TouCAN	40-Ch., 10-Bit	—	5.0	56	-40 ~ 105	388-BGA	MPC566MVR56-ND◆	94.03	86.27	78.71	MPC566MVR56

◆ ***RoHS Compliant*** † 4-Channel DMA § Cut Tape ‡ Tape and Reel

(Continued)

freescale semiconductor 32-Bit Microcontrollers *(Cont.)*

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Freescale Part No.
64K	—	—	—	60X, MPX	—	—	3.3	400	-40 ~ 105	360-FCCLGA	MPC7410VS400LE-ND◆	88.06	75.41	71.28	MPC7410VS400LE
	—	—	—	60X, MPX	—	—	3.3	450	-40 ~ 105	360-FCCLGA	MPC7410VS450LE-ND◆	105.77	90.57	85.61	MPC7410VS450LE
	—	—	—	60X	—	—	2.5, 3.3	500	-40 ~ 85	360-CBGA	MPC7410VS500LE-ND◆	179.35	155.57	148.64	MPC7410VS500LE
	—	—	—	60X	—	—	3.3	300	-40 ~ 85	360-CBGA	MPC755BPX300LE-ND	88.79	76.03	71.87	MPC755BPX300LE
	—	—	—	60X	—	—	3.3	400	-40 ~ 85	360-PBGA	MPC755CPX400LE-ND	145.45	126.17	123.26	MPC755CPX400LE
	—	—	—	60X	—	—	3.3	400	-40 ~ 85	360-CBGA	MPC755CRX400LE-ND	145.45	126.17	123.26	MPC755CRX400LE
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA, USB	—	—	3.3	333	-40 ~ 105	480-FTBGA	MPC8270ZUQLDA-ND	73.98	67.88	61.93	MPC8270ZUQLD
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA, USB	—	—	3.3	450	-40 ~ 105	480-FTBGA	MPC8270ZUUPEA-ND	88.80	81.48	74.34	MPC8270ZUUPE
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA, USB	—	—	3.3	450	-40 ~ 105	480-FTBGA	MPC8280ZUUPEA-ND	148.80	135.76	121.96	MPC8280ZUUPE
	—	—	—	SPI, I^{2}C, DUART	—	—	2.5, 3.3	667	-40 ~ 115	783-FCPBGA	MPC8540CVT667JB-ND◆	167.20	145.04	138.57	MPC8540CVT667JB
	—	—	—	SPI, I^{2}C, DUART	—	—	2.5, 3.3	667	0 ~ 105	783-FCPBGA	MPC8540VT667LB-ND◆	138.33	126.21	113.38	MPC8540VT667LB
	—	—	—	SPI, I^{2}C, DUART	—	—	2.5, 3.3	833	0 ~ 105	783-FCPBGA	MPC8540VT833LB-ND◆	159.08	145.14	130.38	MPC8540VT833LB
	—	—	—	SPI, I^{2}C, DUART	—	—	2.5, 3.3	333	-40 ~ 115	783-FCPBGA	MPC8541ECVTAJD-ND◆	136.27	114.07	102.48	MPC8541ECVTAJD
	—	—	—	SPI, I^{2}C, DUART	—	—	2.5, 3.3	333	-40 ~ 115	783-FCPBGA	MPC8541ECVTALF-ND◆	151.11	131.08	125.24	MPC8541ECVTALF
	—	—	—	SPI, I^{2}C, DUART	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8541EVTAJD-ND◆	113.66	103.70	98.07	MPC8541EVTAJD
	—	—	—	SPI, I^{2}C, DUART	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8541EVTALF-ND◆	136.27	125.03	114.07	MPC8541EVTALF
	—	—	—	SPI, I^{2}C, DUART	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8541EVTAPF-ND◆	143.78	131.18	117.84	MPC8541EVTAPF
	—	—	—	SPI, I^{2}C, DUART	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8541EVTAQF-ND◆	172.54	157.42	141.41	MPC8541EVTAQF
	—	—	—	SPI, TDM, I^{2}C	—	—	2.5, 3.3	333	-40 ~ 115	783-FCPBGA	MPC8555ECVTALF-ND◆	151.28	138.02	123.99	MPC8555ECVTALF
	—	—	—	SPI, TDM, I^{2}C	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8555EVTAPF-ND◆	173.79	150.75	144.03	MPC8555EVTAPF
	—	—	—	SPI, TDM, I^{2}C	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8555EVTAQF-ND◆	155.55	—	—	MPC8555EVTAQF
	—	—	—	SPI	—	—	2.5, 3.3	—	-40 ~ 85	783-FCPBGA	MPC8560CVT667JB-ND◆	182.59	166.59	149.65	MPC8560CVT667JB
	—	—	—	SPI	—	—	2.5, 3.3	—	-40 ~ 105	783-FCPBGA	MPC8560VT667LB-ND◆	166.00	151.46	136.06	MPC8560VT667LB
	—	—	—	SPI	—	—	2.5, 3.3	—	-40 ~ 105	783-FCPBGA	MPC8560VT833LB-ND◆	190.90	174.17	156.46	MPC8560VT833LB
PowerQUICC™ II Pro Processors															
16K	—	—	4-16 Bit	MII or RMII, TDM, DUART, SPI, I^{2}C	—	—	3.3	266	0 ~ 105	516-PBGA	MPC8323EVRADDC-ND◆	29.38	24.59	22.09	MPC8323EVRADDC
	—	—	4-16 Bit	MII or RMII, TDM, DUART, SPI, I^{2}C	—	—	3.3	333	0 ~ 105	516-PBGA	MPC8323EVRAFDC-ND◆	33.76	28.27	25.39	MPC8323EVRAFDC
	—	—	4-16 Bit	MII or RMII, TDM, DUART, SPI, I^{2}C	—	—	3.3	333	0 ~ 105	516-PBGA	MPC8323EZQAFDC-ND	33.76	28.27	25.39	MPC8323EZQAFDC
32K	—	—	4-16 Bit	USB, DUART, SPI, I^{2}C	—	—	3.3	400	0 ~ 105	620-PBGA	MPC8343EVRAGDB-ND◆	56.40	47.21	42.41	MPC8343EVRAGDB
	—	—	4-16 Bit	USB, DUART, SPI, I^{2}C	—	—	3.3	400	0 ~ 105	620-PBGA	MPC8343EZQAGDB-ND	47.21	44.65	42.41	MPC8343EZQAGDB
	—	—	4-16 Bit	USB, DUART, SPI, I^{2}C	—	—	3.3	400	0 ~ 105	620-PBGA	MPC8343VRAGDB-ND◆	49.04	41.06	36.88	MPC8343VRAGDB
	—	—	4-16 Bit	USB, DUART, SPI, I^{2}C	—	—	3.3	400	-40 ~ 105	620-PBGA	MPC8347CVRAGDB-ND◆	51.23	48.46	46.03	MPC8347CVRAGDB
	—	—	4-16 Bit	USB, DUART, SPI, I^{2}C	—	—	3.3	667	0 ~ 105	672-TBGA	MPC8347EVVALFB-ND◆	97.55	89.00	79.95	MPC8347EVVALFB
	—	—	4-16 Bit	USB, DUART, SPI, I^{2}C	—	—	3.3	400	0 ~ 105	620-PBGA	MPC8347EZQAGDB-ND	53.56	50.65	48.38	MPC8347EZQAGDB
	—	—	4-16 Bit	USB, DUART, SPI, I^{2}C	—	—	3.3	533	0 ~ 105	672-TBGA	MPC8347EZUAJFB-ND	97.84	81.90	73.57	MPC8347EZUAJFB
	—	—	4-16 Bit	USB, DUART, SPI, I^{2}C	—	—	3.3	400	0 ~ 105	620-PBGA	MPC8347VRAGDB-ND◆	55.65	46.59	41.85	MPC8347VRAGDB
	—	—	4-16 Bit	USB, DUART, SPI, I^{2}C	—	—	3.3	533	0 ~ 105	672-TBGA	MPC8349EZUAJDB-ND	98.37	84.23	79.62	MPC8349EZUAJDB
	—	—	4-16 Bit	USB, DUART, SPI, I^{2}C	—	—	3.3	533	0 ~ 105	672-TBGA	MPC8349VVAJFB-ND◊	93.20	78.02	70.09	MPC8349VVAJFB
	—	—	4-16 Bit	USB, UART, SPI, I^{2}C, HDLC	—	—	3.3	400	0 ~ 105	740-TBGA	MPC8358EVVAGDG-ND◆	73.46	61.50	55.24	MPC8358EVVAGDG
	—	—	4-16 Bit	USB, UART, SPI, I^{2}C, HDLC	—	—	3.3	400	0 ~ 105	740-TBGA	MPC8358EZUAGDG-ND	61.49	58.16	55.24	MPC8358EZUAGDG
	—	—	4-16 Bit	USB, UART, SPI, I^{2}C, HDLC	—	—	3.3	533	-40 ~ 105	740-TBGA	MPC8360CZUAJDG-ND	84.32	70.58	63.41	MPC8360CZUAJDG
	—	—	4-16 Bit	USB, UART, SPI, I^{2}C, HDLC	—	—	3.3	533	0 ~ 105	740-TBGA	MPC8360EVVAJDG-ND◆	88.17	73.81	66.30	MPC8360EVVAJDG
M-CORE™ Processors															
—	8K	128K	4-Ch.	Dual, SCI, SPI	Queued 8-Ch., 10-Bit	—	2.7 ~ 3.6	33	-40 ~ 85	100-LQFP	MMC2107CFCAF33-ND◆	23.36	21.44	19.56	MMC2107CFCAF33
	8K	128K	4-Ch.	Dual, SCI, SPI	Queued 8-Ch., 10-Bit	—	2.7 ~ 3.6	33	-40 ~ 85	144-LQFP	MMC2107CFCAG33-ND◆	23.36	21.44	19.56	MMC2107CFCAG33
68K Family Processors															
1K	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0 ~ 105	144-LQFP	MC68302AG16C-ND◆	33.10	25.97	24.46	MC68302AG16C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	-40 ~ 120	144-LQFP	MC68302AG16VC-ND◆	41.36	31.43	30.56	MC68302AG16VC
	—	—	4-Ch.	SCP, TDM	—	—	5.0	20	0 ~ 105	144-LQFP	MC68302AG20C-ND◆	36.74	27.92	27.15	MC68302AG20C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	25	0 ~ 105	144-LQFP	MC68302AG25C-ND◆	40.39	30.70	29.85	MC68302AG25C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	33	0 ~ 105	144-LQFP	MC68302AG33C-ND◆	40.17	33.46	31.48	MC68302AG33C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	-40 ~ 120	144-LQFP	MC68302CAG16VC-ND◆	45.27	37.71	35.47	MC68302CAG16VC
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0 ~ 105	132-PQFP	MC68302CEH16C-ND◆	40.82	31.02	30.16	MC68302CEH16C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0 ~ 70	132-PQFP	MC68302EH16C-ND◆	34.00	26.67	25.12	MC68302EH16C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	20	0 ~ 105	132-PQFP	MC68302EH20C-ND◆	37.63	28.60	27.81	MC68302EH20C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	25	0 ~ 105	132-PQFP	MC68302EH25C-ND◆	41.31	31.39	30.52	MC68302EH25C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0 ~ 70	132-PGA	MC68302RC16C-ND	88.55	—	—	MC68302RC16C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	20	-40 ~ 85	144-TQFP	MC68EN302PV20BT-ND	36.74	30.18	28.64	MC68EN302PV20BT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	16	-40 ~ 85	100-TQFP	MC68LC302AF16CT-ND◆	19.96	15.66	14.75	MC68LC302AF16CT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	16	-40 ~ 105	100-LQFP	MC68LC302AF16VCT-ND◆	27.88	21.87	20.60	MC68LC302AF16VCT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	20	-40 ~ 85	100-TQFP	MC68LC302AF20CT-ND◆	23.91	18.76	17.67	MC68LC302AF20CT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	20	-40 ~ 105	100-LQFP	MC68LC302PU20VCT-ND	28.71	22.52	21.21	MC68LC302PU20VCT
2K	—	—	TPU	SCI, Queued, SPI	—	—	5.0	25	-40 ~ 85	132-PQFP	MC68332ACEH25-ND◆	24.93	22.88	20.88	MC68332ACEH25
	—	—	TPU	SCI, Queued, SPI	—	—	5.0	16	-40 ~ 85	132-PQFP	MC68332GCEH16-ND◆	22.65	20.79	18.97	MC68332GCEH16
	—	—	TPU	SCI, Queued, SPI	—	—	3.5	16	-40 ~ 85	144-LQFP	MC68LK332ACAG16-ND◆	20.72	19.02	17.35	MC68LK332ACAG16
	—	—	TPU	SCI, Queued, SPI	—	—	5.0	20	-40 ~ 85	132-PQFP	MC68332ACEH20-ND◆	23.80	21.84	19.93	MC68332ACEH20
	—	—	—	—	—	—	5.0	16	-40 ~ 85	132-PQFP	MC68334GCEH16-ND◆	21.33	19.47	18.41	MC68334GCEH16
7.5K	—	—	TPU, CTM4	SCI, Queued, SPI	Queued 16-Ch., 10-Bit	—	5.0	20	-40 ~ 85	160-QFP	MC68336GCAB20-ND◆	33.17	26.02	24.51	MC68336GCAB20
8K	—	—	—	—	—	—	5.0	33	-40 ~ 85	184-CQFP	MC68EC040FE33A-ND	111.07	—	—	MC68EC040FE33A
16K	—	—	—	—	—	—	5.0	33	-40 ~ 85	179-PGA	MC68EC040RC33A-ND	140.73	—	—	MC68EC040RC33A
	—	—	—	—	—	—	5.0	25	-40 ~ 85	179-PGA	MC68LC040RC25A-ND	152.01	—	—	MC68LC040RC25A
	—	—	—	—	—	—	3.3	50	-40 ~ 85	206-PGA	MC68EC060RC50-ND	137.77	—	—	MC68EC060RC50
—	—	—	4-Ch.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	240-FQFP	MC68MH360EM25L-ND	67.94	55.01	53.23	MC68MH360EM25L
	—	—	—	—	—	—	5.0	16	-40 ~ 85	64-QFP	MC68SEC000AA16-ND◆	11.78	10.81	9.86	MC68SEC000AA16
	—	—	GPT	SCI, Queued, SPI	—	—	5.0	16	-40 ~ 85	144-LQFP	MC68331CAG16-ND◆	16.62	15.26	13.92	MC68331CAG16
	—	—	—	UART, SCP, TDM	—	—	5.0	16	-40 ~ 85	144-LQFP	MC68CK331CAG16-ND◆	16.04	12.59	11.86	MC68CK331CAG16
	—	—	GPT	SCI, Queued, SPI	—	—	5.0	16	-40 ~ 85	132-PQFP	MC68331CEH16-ND◆	20.41	18.73	17.09	MC68331CEH16
	—	—	—	—	—	—	5.0	16	-40 ~ 85	114-PGA	MC68020RC16E-ND◆	154.20	—	—	MC6802RC16E
	—	—	—	—	—	—	5.0	50	-40 ~ 85	206-PGA	MC68060RC50-ND	478.47	—	—	MC68060RC50
	—	—	—	—	—	—	5.0	16	-40 ~ 85	132-PQFP	MC68334GCFC16-ND	24.25	19.02	17.92	MC68334GCFC16
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	16	-40 ~ 85	144-CQFP	MC68340FE16E-ND◆	53.87	49.43	45.10	MC68340FE16E
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	25	-40 ~ 85	144-CQFP	MC68340FE25E-ND◆	72.73	66.74	60.89	MC68340FE25E
	—	—	4-Ch.	SPI, UART	—	—	5.0	33	-40 ~ 85	240-PQFP	MC68360AI25L-ND◆	61.88	51.54	48.49	MC68360AI25L
	—	—	4-Ch.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	240-PQFP	MC68360EM25L-ND	61.88	51.54	48.49	MC68360EM25L
	512	—	—	—	—	—	5.0	25	-40 ~ 85	132-CQFP	MC68EC030FE25C-ND	49.90	45.79	41.78	MC68EC030FE25C
	512	—	—	—	—	—	5.0	40	0 ~ 70	132-CQFP	MC68EC030FE40C-ND	69.21	63.50	57.94	MC68EC030FE40C

◆ ***RoHS Compliant*** † 4-Channel DMA § Cut Tape ‡ Tape and Reel *(Continued)*

32-Bit Microcontrollers *(Cont.)*

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
—	—	—	3-Ch.	SCP, DUART	—	—	5.0	20	-40 ~ 85	144-TQFP	MC68EN302AG20BT-ND◆	41.90	34.90	32.84	MC68EN302AG20BT
	—	—	3-Ch.	SCP, DUART	—	—	5.0	25	-40 ~ 85	144-TQFP	MC68EN302AG25BT-ND◆	50.27	41.87	39.39	MC68EN302AG25BT
	—	—	4-Ch.	UART, SPI, TDM	—	—	5.0	25	-40 ~ 85	357-PBGA	MC68EN360VR25L-ND◆	69.99	56.68	54.84	MC68EN360VR25L
	—	—	—	—	—	—	5.0	16	-40 ~ 85	68-PLCC	MC68HC000EI16-ND◆	13.23	12.15	10.48	MC68HC000EI16
	—	—	—	—	—	—	5.0	16	0 ~ 70	68-PLCC	MC68HC000EI16R2CT-ND◆§	13.23	10.01	9.23	MC68HC000EI16R2
	—	—	—	—	—	—	5.0	16	0 ~ 70	68-PLCC	MC68HC000EI16R2TR-ND◆‡	2769.25/250			MC68HC000EI16R2
	—	—	—	—	—	—	5.0	16	0 ~ 70	68-PLCC	MC68HC000IEI16-ND◆	23.17	21.15	19.00	MC68HC000IEI16
	—	—	—	—	—	—	5.0	16	0 ~ 70	64-TQFP	MC68SEC000AA16R2CT-ND◆§	11.78	8.91	8.22	MC68SEC000AA16R2
	—	—	—	—	—	—	5.0	16	0 ~ 70	64-TQFP	MC68SEC000AA16R2TR-ND◆‡	6678.75/750			MC68SEC000AA16R2
i.MX™ Processors															
32K	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	200	-40 ~ 85	256-PBGA	MC9328MX1DVH20-ND	27.41	21.50	20.25	MC9328MX1DVH20
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	200	-40 ~ 85	256-PBGA	MC9328MX1DVM20-ND◆	28.27	22.18	20.89	MC9328MX1DVM20
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	200	-40 ~ 85	256-PBGA	MC9328MX1DVM20R2CT-ND◆§	28.27	22.18	20.89	MC9328MX1DVM20R2
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	200	-40 ~ 85	256-PBGA	MC9328MX1DVM20R2TR-ND◆‡	19308.00/1,000			MC9328MX1DVM20R2
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	200	-40 ~ 85	256-PBGA	MC9328MX1VM20-ND◆	28.27	22.18	20.89	MC9328MX1VM20
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	150	-40 ~ 85	256-MAPBGA	MC9328MX1CVM15-ND◆	27.08	21.24	20.01	MC9328MX1CVM15
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	266	-40 ~ 85	289-MAPBGA	MC9328MX21CVK-ND◆	24.30	19.06	17.96	MC9328MX21CVK
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	266	-40 ~ 85	289-MAPBGA	MC9328MX21CVM-ND◆	21.22	16.65	15.68	MC9328MX21CVM
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	266	-40 ~ 85	289-MAPBGA	MC9328MX21DVK-ND◆	21.14	16.58	15.62	MC9328MX21DVK
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	266	0 ~ 70	289-MAPBGA	MC9328MX21VK-ND◆	21.14	16.58	15.62	MC9328MX21VK
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	266	0 ~ 70	289-MAPBGA	MC9328MX21VM-ND◆	18.47	14.49	13.65	MC9328MX21VM
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	150	-40 ~ 85	256-MAPBGA	MC9328MXLCVM15-ND◆	16.70	12.63	11.65	MC9328MXLCVM15
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	150	-40 ~ 85	225-MAPBGA	MC9328MXLCVP15-ND◆	15.74	11.91	10.98	MC9328MXLCVP15

◆ ***RoHS Compliant*** † 4-Channel DMA § Cut Tape ‡ Tape and Reel

32-Bit Development Tools

Device Numbers	Series	Digi-Key Part No.	Price Each	Freescale Part No.
MCIMX31	i.MX	MCIMX31LITEKITC-ND◆	688.50	MCIMX31LITEKITC
MCF5211	ColdFire™	M5211DEMO-ND◆	106.92	M5211DEMO
MCF5213	ColdFire	M5213EVBE-ND◆	323.04	M5213EVBE
MCF5270	ColdFire	M5270PROMO-ND	281.61	M5270PROMO
MCF5307	ColdFire	M5307C3-ND	609.46	M5307C3
MCF537X	ColdFire	M5373EVB-ND	754.92	M5373EVB
MCF5280/81/82	ColdFire	M5282LITEE-ND◆	193.44	M5282LITEE
MCF5270/71	ColdFire	M5271EVBE-ND◆	700.92	M5271EVBE
MCF547X	ColdFire	M5474LITEKIT-ND	378.00	M5474LITEKIT
MCF548X	ColdFire	M5484LITEKITE-ND◆	378.00	M5484LITEKITE
MCF5253	ColdFire	M5253EVBE-ND◆	680.86	M5253EVBE
MCF523X	ColdFire	M523XEVBE-ND◆	750.72	M523XEVBE
MCF5282 with MC9S08GT60, MC13192, MMA6261, MPXM2053	ColdFire	M5282ZIGBEE-ND	510.00	M5282ZIGBEE
MPC555	PowerPC™	MPC555CME-ND	734.83	MPC555CME
MPC561/62/63/64	PowerPC	MPC564EVB-ND	1011.92	MPC564EVB
MPC8313E	PowerQUICC™ II Pro	MPC8313E-RDB-ND◆	338.02	MPC8313E-RDB
MPC8323E	PowerQUICC II Pro	MPC8323E-RDB-ND◆	451.07	MPC8323E-RDB
MPC8349E	PowerQUICC II Pro	MPC8349E-MITXE-ND◆	790.22	MPC8349E-MITXE
MPC8360E	PowerQUICC II Pro	MPC8360E-RDK-ND◆	1129.37	MPC8360E-RDK

◆ ***RoHS Compliant***

CAN	A/D Converter	Oper. Freq. MHz	Internal Flash (Bytes)	Internal RAM (Bytes)	Package	Serial	Supply Voltage (V) Min. ~ Max.	Timers - Channels	Timers - Number of	Timers - Size (Bit)	Temperature (°C)	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
NEW! Felix™ JM USB Microcontroller Family — RoHS Compliant NEW!																
CAN	12-Ch., 12-Bit	50	64K	8K	L-PQFP-G80	SCI, SPI, I^2C, USB, CAN	2.7 ~ 5.5	6, 2	1, 1	16, 16	-40 ~ 85	MCF51JM64EVLK-ND	9.09	6.20	5.90	MCF51JM64EVLK
CAN	12-Ch., 12-Bit				L-PQFP-G44			6, 2				MCF51JM64VLD-ND	7.86	5.78	5.10	MCF51JM64VLD
—	8-Ch., 12-Bit				FL-PQFP-G64			4, 2				MCF51JM64VLH-ND	8.15	6.00	5.30	MCF51JM64VLH
CAN	12-Ch., 12-Bit				L-PQFP-G80			6, 2				MCF51JM64VLK-ND	8.39	6.17	5.45	MCF51JM64VLK
CAN	12-Ch., 12-Bit				PQFP-G64			6, 2				MCF51JM64VQH-ND	8.15	6.00	5.30	MCF51JM64VQH
CAN	12-Ch., 12-Bit	50	128K	16K	L-PQFP-G80	SCI, SPI, I^2C, USB, CAN	2.7 ~ 5.5	6, 2	1, 1	16, 16	-40 ~ 85	MCF51JM128EVLK-ND	9.79	6.68	6.36	MCF51JM128EVL
CAN	12-Ch., 12-Bit				L-PQFP-G44			6, 2				MCF51JM128VLD-ND	8.53	5.83	5.54	MCF51JM128VLD
—	8-Ch., 12-Bit				FL-PQFP-G64			4, 2				MCF51JM128VLH-ND	8.85	6.04	5.75	MCF51JM128VLH
CAN	12-Ch., 12-Bit				L-PQFP-G80			6, 2				MCF51JM128VLK-ND	9.09	6.20	5.90	MCF51JM128VLH
CAN	12-Ch., 12-Bit				PQFP-G64			6, 2				MCF51JM128VQH-ND	8.85	6.04	5.75	MCF51JM128VQH

Flexis™ Microcontroller Series

The DEMOQE128 is a low-cost development system designed for demonstrating, evaluating and debugging the Freescale MC9S08QE128 and MCF51QE128 microcontrollers. The board supports two interchangeable plug-in daughter cards to quickly evaluate the 8-bit S08 and 32-bit ColdFire™ V1QE128 microcontrollers.

DEMOQE128-ND **$107.68**

The EVBQE128 Evaluation Board has been designed for the evaluation, demonstration and debugging of the Freescale Flexis QE128 Microcontrollers (MC9S08QE128 and MCF51QE128). The EVBQE128 can be used as a standalone application or can be controlled by a host PC via its built-in microDART™ interface.

EVBQE128-ND **$352.21**

NEW! Flexis™ JM Development Tools

The DEMOJM is a cost-effective kit enabling quick microcontroller evaluation. The kit includes a DEMOJM base board, a red MCF51JM128 daughter card, and a green MC9S08JM60 daughter card. The included kit can first be used to demonstrate the features of the MC9S08JM60 devices, starting with an on-chip USB device controller and transceiver. Then, move to MCF51JM128 with an on-chip USB host and device dual-role controller.

DEMOJM-ND **$111.92**

The EVB51JM128 is a low-cost development system for the Freescale MCF51JM128 ColdFire® microcontroller, which is a part of the Freescale FLEXIS Microcontroller Continuum.

CodeWarrior Development Tools provide support for quick and easy application development and debug.

EVB51JM128-ND **$367.41**

freescale
semiconductor

Flash Digital Signal Processors

Prog. Flash (16-Bit)	Prog. RAM (16-Bit)	Flash (Data) (16-Bit)	RAM (Data) (16-Bit)	Boot Flash (16-Bit)	Timers	I/O	Serial	A/D	PWM	Operating Voltage (V)	Bus Freq. (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
8K	1K	2K	1K	2K	8	11	SPI, SCI	8-Ch., 12-Bit	6-Ch.	3.3	60	48-LQFP	DSP56F801FA60E-ND	6.58	5.45	4.97	DSP56F801FA60E
		2K	1K	2K	8	11	SPI, SCI	8-Ch., 12-Bit	6-Ch.	3.3	80	48-LQFP	DSP56F801FA80E-ND	7.24	6.00	5.47	DSP56F801FA80E
		2K	1K	2K	8	4	SCI	8-Ch., 12-Bit	6-Ch.	3.3	60	32-LQFP	DSP56F802TA60E-ND	5.71	4.32	4.08	DSP56F802TA60E
31.5K	0.5K	4K	2K	2K	16	16	SPI, SCI	8-Ch., 12-Bit	6-Ch.	3.3	80	100-LQFP	DSP56F803BU80E-ND	13.08	12.01	10.95	DSP56F803BU80E
		4K	2K	2K	16	32	SPI, 2 SCI	8-Ch., 12-Bit	(2) 6-Ch.	3.3	80	144-LQFP	DSP56F805FV80E-ND	14.52	13.32	11.50	DSP56F805FV80E
		2K	4K	2K	4, 1 TOD	16	2 SPI, 2 SCI, SSI	—	—	2.5/3.3	80	100-LQFP	DSP56F826BU80E-ND	12.83	11.78	10.75	DSP56F826BU80E
60K	2K	8K	4K	2K	16	32	SPI, 2 SCI	16-Ch., 12-Bit	(2) 6-Ch.	3.3	80	160-LQFP	DSP56F807PY80E-ND	17.27	15.85	14.46	DSP56F807PY80E
		8K	4K	2K	16	32	SPI, 2 SCI	16-Ch., 12-Bit	(2) 6-Ch.	3.3	80	160-BGA	DSP56F807VF80E-ND	19.74	18.12	16.53	DSP56F807VF80E
32K	4K	8K	8K	8K	8	21	SCI, SPI	6-Ch., 12-Bit	—	3.3	40	48-LQFP	MC56F8122VFAE-ND	6.98	5.76	5.27	MC56F8122VFAE
		8K	8K	8K	8	27	SCI, SPI	8-Ch., 12-Bit	—	3.3	40	64-LQFP	MC56F8123VFBE-ND	7.22	5.95	5.44	MC56F8123VFBE
		8K	8K	8K	8	21	SCI, SPI	6-Ch., 12-Bit	6-Ch.	3.3	60	48-LQFP	MC56F8322MFAE-ND	10.38	8.60	7.84	MC56F8322MFAE
		8K	8K	8K	8	21	SCI, SPI	6-Ch., 12-Bit	6-Ch.	3.3	60	48-LQFP	MC56F8322VFAE-ND	8.87	7.35	6.71	MC56F8322VFAE
		8K	8K	8K	8	27	SCI, SPI	8-Ch., 12-Bit	6-Ch.	3.3	60	64-LQFP	MC56F8323MFBE-ND	9.63	8.84	8.07	MC56F8323MFBE
		8K	8K	8K	8	27	SCI, SPI	8-Ch., 12-Bit	6-Ch.	3.3	60	64-LQFP	MC56F8323VFBE-ND	9.17	7.60	6.93	MC56F8323VFBE
128K	4K	8K	8K	8K	8	49	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	128-LQFP	MC56F8145VFGE-ND	10.19	9.35	8.53	MC56F8145VFGE
		8K	8K	8K	8	76	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	160-LQFP	MC56F8147VPYE-ND	10.90	10.00	9.13	MC56F8147VPYE
		8K	8K	8K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8345MFGE-ND	15.57	14.29	13.04	MC56F8345MFGE
		8K	8K	8K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8345VFGE-ND	13.08	12.01	10.95	MC56F8345VFGE
		8K	8K	8K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8346MFVE-ND	15.78	14.48	13.21	MC56F8346MFVE
		8K	8K	8K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8346VFVE-ND	13.18	12.09	10.44	MC56F8346VFVE
		8K	8K	8K	16	76	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	160-LQFP	MC56F8347VPYE-ND	14.00	12.85	11.09	MC56F8347VPYE
256K	4K	8K	16K	16K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8355MFGE-ND	20.11	18.45	16.84	MC56F8355MFGE
		8K	16K	16K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8355VFGE-ND	17.29	15.87	14.48	MC56F8355VFGE
		8K	16K	16K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8356MFVE-ND	20.38	18.70	17.06	MC56F8356MFVE
		8K	16K	16K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8356VFVE-ND	17.41	15.98	14.58	MC56F8356VFVE
		8K	16K	16K	16	76	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	160-LQFP	MC56F8357VPYE-ND	18.73	17.19	15.68	MC56F8357VPYE
512K	4K	32K	32K	32K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8365MFGE-ND	27.75	25.46	23.23	MC56F8365MFGE
		32K	32K	32K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8365VFGE-ND	24.40	22.39	20.43	MC56F8365VFGE
		32K	32K	32K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8366MFVE-ND	28.05	25.74	23.49	MC56F8366MFVE
		32K	32K	32K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8366VFVE-ND	24.55	22.53	20.56	MC56F8366VFVE
		32K	32K	32K	16	76	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	160-LQFP	MC56F8367VPYE-ND	25.64	23.53	21.47	MC56F8367VPYE

Digital Signal Processors

On Chip RAM	Bootstrap ROM	Timer	I/O	Serial	Other Features	Operating Voltage (V)	Bus Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
—	—	3	4-Ports	ESAI, SHI	On-Chip Emulation	3.3	120	144-LQFP	DSPB56362AG120-ND◆	15.61	11.24	10.89	DSPB56362AG120
		1	3-Ports	ESAI, SHI	On-Chip Emulation	3.3	100	100-LQFP	DSPB56364AF100-ND◆	9.83	7.02	6.39	DSPB56364AF100
		3	5-Ports	ESAI, SHI	On-Chip Emulation	3.3	120	144-LQFP	DSPB56366AG120-ND◆	21.18	16.02	14.77	DSPB56366AG120
8K	3K	3	42	2-ESSI	DMA, JTAG	3.3	80	208-TQFP	DSP56301AG80-ND◆	56.78	47.29	44.49	DSP56301AG80
		3	42	2-ESSI, SCI	PCI, ISA, JTAG	3.3	100	252-BGA	DSP56301VF100-ND	60.14	50.09	47.13	DSP56301VF100
10K	1K	4	11	ISSI, SCI, SPI	On-Chip Emulation	3.3	120	81-MAPBGA	DSP56852VFE-ND◆	7.43	6.13	5.60	DSP56852VFE
32K	1K	4	41	ISSI, SCI, SPI	DMA Controller	3.3	120	128-LQFP	DSP56854FGE-ND◆	10.19	9.31	8.52	DSP56854FGE
64K	1K	4	47	ISSI, SCI, SPI	DMA Controller	1.8~3.3	120	100-LQFP	DSP56857BUE-ND◆	11.80	10.83	9.34	DSP56857BUE
		4	47	ISSI, SCI, SPI	DMA Controller	1.8~3.3	120	144-LQFP	DSP56858FVE-ND◆	12.43	11.41	10.41	DSP56858FVE
128K	192	3	5	2-ESSI, SCI	On-Chip Emulation	3.3	100	144-TQFP	DSP56303AG100-ND◆	31.19	24.46	23.04	DSP56303AG100
		3	—	1-ESSI, SCI 2	On-Chip Emulation	3.3	150	196-MAPBGA	DSP56311VL150R2CT-ND◆	32.27	26.88	25.29	DSP56311VL150R2
		3	—	1-ESSI, SCI 2	On-Chip Emulation	3.3	150	196-MAPBGA	DSP56311VL150R2TR-ND◆	21740.40/750			DSP56311VL150R2
		3	42	2-ESSI, SCI	DMA, JTAG	1.8/3.3	150	196-BGA	DSP56311VL150-ND◆	38.55	35.37	32.27	DSP56311VL150
192K	192	3	18	1-ESSI, SCI 2	On-Chip Emulation	3.3	200	196-MAPBGA	DSP56321VL200-ND◆	52.10	47.53	44.95	DSP56321VL200
		3	18	1-ESSI, SCI 2	On-Chip Emulation	3.3	220	196-MAPBGA	DSP56321VL220-ND◆	66.68	54.00	52.25	DSP56321VL220
		3	18	1-ESSI, SCI 2	On-Chip Emulation	3.3	240	196-MAPBGA	DSP56321VL240-ND◆	63.08	57.88	52.81	DSP56321VL240
		3	18	1-ESSI, SCI 2	On-Chip Emulation	3.3	275	196-MAPBGA	DSP56321VL275-ND◆	66.80	61.29	55.92	DSP56321VL275
512K	2K	4	66	HDLC, SPI	DMA Controller	3.3	250	332-FCPBGA	MSC8101VT1375F-ND◆	129.19	110.62	104.57	MSC8101VT1375F
		4	66	HDLC, SPI	DMA Controller	3.3	250	332-FCPBGA	MSC8101VT1500F-ND◆	150.11	128.53	121.50	MSC8101VT1500F
		4	66	HDLC, SPI	DMA Controller	3.3	300	332-FCPBGA	MSC8103VT1200F-ND◆	122.10	104.55	98.83	MSC8103VT1200F
1436K	4K	32	32	TDM, I2C	DMA Controller	3.3	300	431-FCPBGA	MSC8122TVT4800V-ND◆	161.13	139.77	133.54	MSC8122TVT4800V
		32	32	TDM, I2C	DMA Controller	3.3	400	431-FCPBGA	MSC8122TVT6400V-ND◆	161.20	147.08	132.12	MSC8122TVT6400V
		32	32	TDM, I2C	DMA Controller	3.3	500	431-FCPBGA	MSC8122VT8000-ND◆	204.20	177.13	169.23	MSC8122VT8000
		32	32	TDM, I2C	DMA Controller	3.3	400	431-FCPBGA	MSC8126TVT6400-ND◆	186.00	161.34	154.14	MSC8126TVT6400

◆ ***RoHS Compliant***

DSP Bit Development Tools

DSP56303EVM Kit

The DSP56303 Evaluation Module is designed as a low-cost platform for developing real-time software and hardware products to support applications in wireless, telecommunications and multimedia products using multi-line voice/date/fax processing, videoconferencing, audio applications, control and general digital signal processing. PC-compatible computer (90MHz or higher) running Windows 95 or NT4 with an RS-232 serial port. 12 Mbytes RAM, 3-1/2 inch diskette drive, CD-ROM drive, hard drive with 20 Mbytes of free disk space. Power supply 7-9 V AC or DC 500 mA with 2.1 mm coaxial connector, (not included) (recommended Digi-Key part number T353-P5P-ND).

Kit Contents: • DSP56303EVM board • DSP56300 literature • Suite56 for Freescale DSP 563xx • Freescale The DSP56300 Family Documentation • Domain Technologies Debugger for DSP563xxEVM

DSP563XXEVME-ND........ **$452.20**

DSP56309EVM Kit

The DSP56309 Evaluation Module (DSP56309EVM) is a low-cost platform for developing real-time software and hardware products to support a new generation of wireless, telecommunications and multimedia applications. The DSP56309EVM targets applications requiring a large amount of on-chip memory, such as wireless infrastructure applications. PC compatible computer (Pentium-90 MHz or higher) running Windows 95 (or higher) with an RS-232 serial port. Requires Power supply 7-9 VDC, 500mA, (not included) (recommended Digi-Key part number T353-P5P-ND).
Kit Contents: • DSP56309EVM Board • GUI Debugger Software Disk • DSP56309EVM User's Manual and Other Documentation • Assembler Linker-Test files disk

DSP56309EVM-ND........ **$310.95**

DSP56311EVM Kit

The DSP56311 Evaluation Module (EVM) is used to demonstrate the abilities of the DSP56311 device and provide a hardware tool to allow development of applications that use the DSP56311. The DSP56311EVM includes a DSP56311 device, peripheral expansion connectors, external memory and a voice codec. The peripheral expansion connectors allow for signal monitoring and user-feature expandability. **Kit Contents:** • DSP56311EVM Board • Parallel port extender cable • Plastic standoffs and plastic screws • DSP56300 Tools Software • Device and Tools Documentation • Tutorial/example software • DSP56311EVM Development Tools Release Notes • DSP56311EVM Product Installation Guide

DSP56311EVM-ND........ **$395.68**

DSP56L307EVM Kit

The DSP56L307 Evaluation Module (EVM) is used to demonstrate the abilities of the DSP56L307 and provide a hardware tool allowing the development of applications that use the DSP56L307. It is an evaluation module board that includes a DSP56L307 part, peripheral expansion connectors, external memory and a voice codec. The peripheral expansion connectors are used for signal monitoring and user-feature expandability. The DSP56L307EVM is used to facilitate the evaluation of various features of the DSP56L307. It can be used to develop real-time software and hardware products based on the DSP56L307. It provides the features necessary for a user to write and debug software, to demonstrate the functionality of that software and to be able to interface with the customer's application specific device(s). The DSP56L307EVM is flexible enough to allow the user to fully exploit the features of the DSP56L307.

Kit Contents: • DS56L307EVM board • Parallel port extender cable • Plastic standoffs and plastic screws • Power supply, 12V, 1.2 Amps • Suite56 Software Development Tools CD-ROM • Documentation CD-ROM

DSP56L307EVM-ND........ **$452.20**

DSP56F800DEMO Kit

The 56F800 Demonstration Board is used to demonstrate the abilities of the 56F800 family and to provide a hardware tool allowing the development of applications that use the 56F800 devices. The DSP56F800DEMO Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F800 silicon and tools. It also provides an excellent cost effective vehicle for hardware and software development. The DSP56F800DEMO Kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents: • Demo board • Parallel cable • Complimentary CodeWarrior™ license, 8K word program memory limit • SDK CD • Instructions for kit • Training CD • US power supply

DSP56F800DEMO-ND........ **$56.47**

MC56F8323EVM Kit

The MC56F8323EVM is a low-cost kit that contains everything you need to quickly evaluate the features and capabilities of the MC56F8322 and MC56F8323 hybrid controller silicon and tools. **Kit Contents:** • MC56F8323EVM board • Installation guide • Switch mode power supply (12 Volt) • Parallel cable • CodeWarrior™ • Development studio for 56800/E special edition

MC56F8323EVM-ND........ **$337.91**

CodeWarrior™ Software

This industry-leading Integrated Development Environment (IDE) enables the engineer to generate highly optimized, ANSI-Compliant C and Assembly code.

Features: • Processor Expert generator for on-chip peripherals • Full Chip simulation • Includes assembler, linker, debugger and flash programmer

The Dongle allows for a single node-lock copy of CodeWarrior™ to be used on multiple computers.

License Type	Complier Code Size	Digi-Key Part No.	Price Each	Freescale Part No.
Node	Unlimited	CWS-H08-STDED-CX-ND	3107.41	CWS-H08-STDED-CX
Node	32K	CWS-H08-C32K-CX-ND	559.72	CWS-H08-C32K-CX
Node	64K	CWS-H08-C64K-CX-ND	1124.97	CWS-H08-C64K-CX
Node	Unlimited	CWS-H12-STDED-CX-ND	3982.02	CWS-H12-STDED-CX
—	—	CWH-DONGLE-ND	111.92	CWH-DONGLE

Flash Microcontrollers — 8-Bit

The MN101C series of 8-bit single-chip microcontroller incorporates multiple types of peripheral functions. This chip series is well suited for camera, VCR, MD, TV, CD, LD, printer, telephone, home automation products, pager, air conditioner, PPC remote control, fax machine, musical instrument and other applications. The MN101C series brings to embedded microcontroller applications flexible, optimized hardware configurations and simple efficient instruction set.

RAM (Bytes)	Flash (Bytes)	Timer/ Counter	I/O Pins	Speed (µs)	Operating Voltage	Serial Interfaces	Interrupts	A/D Pins	D/A Pins	LCD	Package	Digi-Key Part No.	Price Each 1	25	100
1.5K	32K	8-Bit x 5 16-Bit x 2	39	0.1 0.118 0.235 62.5	3.0 ~ 3.6 2.7 ~ 3.6 1.8 ~ 3.6 1.8 ~ 3.6	Synchronous Type/UART x 2 Synchronous Type/ Single-Master I²C x 1 I²C Slave x 1	22	7	—	SEG 12 COM 4	48-TQFP	MN101CF78AXN-ND	9.41	8.48	7.52
6K	128K	8-Bit x 5 16-Bit x 1	53	0.1 0.2 62.5	2.5 ~ 3.6 2.1 ~ 3.6 1.8 ~ 3.6	Synchronous Type/UART x 2 Synchronous Type/ Single-Master I²C x 1 I²C Slave x 1	22	7	2	—	64-LQFP	MN101CF77GXN-ND	15.43	13.89	12.32
10K	224K	8-Bit x 6 16-Bit x 1	88	0.1 62.5	4.5 ~ 5.5 2.0 ~ 5.5	Synchronous Type x 1 Synchronous Type/UART x 2 Synchronous Type/ Single-Master I²C x 1	23	8	4	—	100-QFP	MN101CF49KXN-ND	17.49	16.33	15.16

AM1 Starter Kit

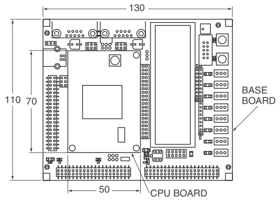

Introductory starter kit for the FLASH MEMORY version of an 8-bit 1-chip CPU manufactured by Matsushita Electric Industrial Co., Ltd.

Features: • Equipped toggle-switches, serial communication function and LCD/LED display • C compiler and source code debugger • One-time C compiler upgrading is allowed from our website after purchasing • Simple debugger compatible with PanaX series with USB I/F • USB 1.1 for Host PC interface • Choice of USB 1.1 bus power or an external extension connector for power supply • CPU Board can be separately put in the evaluation system • Sample program and tutorial are included

Kit Contents: • USB Cable • External connection cable • CD • Software license and product warranty • Quick start up guide and registration guide • C source code debugger (Debug Factory Builder AM1 Starter Kit) • C compiler • CPU manual and sample program (MN101CF49K/70G/78A) • Online help-setup manual

MMK01-C49-ND	Evaluation Kit for MN101CF49KXN	**$358.50**
MMK01-C77-ND	Evaluation Kit for MN101CF77GXN	**$358.50**
MMK01-C78-ND	Evaluation Kit for MN101CF78AXN	**$358.50**
MMB01-001-ND	Base Board for MN101C Evaluation Kit	**$295.50**
MMC01-C49-ND	CPU Board for MN101CF49KXN	**$148.50**
MMC01-C77-ND	CPU Board for MN101CF77GXN	**$148.50**
MMC01-C78-ND	CPU Board for MN101CF78AXN	**$148.50**

AM1 Debug Probe

Features: • AM1 Debug Probe achieves onboard debugging by containing the debug monitor in the AM1 (MN101C) built-in flash memory of the user target and utilizing the AM1 (MN101C) serial port to communicate with PC. • The hardware of AM1 Debug Probe is common to AM1 (MN101C) series. When developing the other AM1 (MN101C) series, the new types can be added by purchasing the appropriate Debug Factory Builder. • Usable as a flash writer by programming the debug monitor in your AM1 (MN101C) in advance. • Simply started up with USB connection to PC. No external power supply is needed because AM1 Debug Probe operates by USB bus power.
Contents: • AM1 Debug Probe • Target connection cable • USB cable • Integrated programming development tool "DebugFactory Builder" (supporting 1 type) • Debug monitor programmed AM1 chip

MDP01-C49-ND	Debug Probe for MN101CF49KXN	**$636.00**
MDP01-C77-ND	Debug Probe for MN101CF77GXN	**$636.00**
MDP01-C78-ND	Debug Probe for MN101CF78AXN	**$636.00**

DebugFactory Builder for AM1 Debug Probe

Features: • Integrated development tool for the programming of AM1 (MN101C) series • Provides efficient debug environments, such as C source code leveled step execution, inspection, watching, breakpoint setting, etc. • Easy-to-switch with simple operation eases effective development work • Included with Evaluation Kits

Contents: • Editor • Make tool • Debugger

MDS01-C49-ND	DebugFactory for MN101CF49KXN	**$358.50**
MDS01-C77-ND	DebugFactory for MN101CF77GXN	**$358.50**
MDS01-C78-ND	DebugFactory for MN101CF78AXN	**$358.50**

Microcontrollers

8-Bit

This XC800 family of 8-bit microcontrollers offer a wide selection of products, combining a high performance 8051 core with on-chip Flash and ROM memory as well as a powerful mix of peripherals such as an enhanced CAPCOM6 (CC6), CAN, LIN and 10 bit ADC.

Based on the 8051 the C505CA enhances the C500 family of 8-bit microcontrollers by providing 32KByte of OTP or 16/32 KByte of ROM, 256 Byte of RAM, 1 KByte of XRAM, Controller Area Network (CAN) Version 2.0B, an asynchronous/ synchronous serial interface and highly accurate 10-bit Analog to Digital Converter integrated on chip.

Max. Clock Rate (MHz)	ROM/ OTP Flash (Byte)	Data Flash EEPROM (Byte)	RAM (Byte)	I/O Lines	ADC-Inputs/ Max. Res. (Bit)	Timers/ Counters (16 Bit)	Serial I/O	CAN 2.0B Active	On-Chip Oscil-lator	On-Chip Voltage Regu-lator	PWM	Package	Digi-Key Part No.	Price Each		Infineon Part No.
														1	25	
20	32K OTP/ROM	—	1028	34	8/10	3	USART	√	√	√	4-ch	MQFP-44	SAB-C505CA-4EMCAIN-ND	17.25	15.53	SAB-C505CA-4EM CA
20	32K OTP/ROM	—	1028	34	8/10	3	USART	√	√	√	4-ch	MQFP-44	SAF-C505CA-4EMCAIN-ND	18.12	16.31	SAF-C505CA-4EM CA
20	—	—	1028	34	8/10	3	USART	√	√	√	4-ch	MQFP-44	SAF-C505CA-LMCAIN-ND	12.76	11.34	SAF-C505CA-LM CA
10	64K OTP	—	2304	57	8/10	3	USART+SSC	√	√	√	4-ch	MQFP-80	SAF-C515C-8EMCAIN-ND	23.09	20.78	SAF-C515C-8EM CA
26.67	8K Flash	up to 4K	768	27	8/10	3	UART, SSC	—	√	√	3+1-ch	TSSOP-38	SAF-XC866-2FRIBCINCT-ND▲	5.69	4.53	SAF-XC866-2FRI BC
26.67	8K Flash	up to 4K	768	27	8/10	3	UART, SSC	—	√	√	3+1-ch	TSSOP-38	SAF-XC866-2FRIBCINTR-ND◊	5601.41/3,000		SAF-XC866-2FRI BC
26.67	16K Flash	up to 4K	768	27	8/10	3	UART, SSC	—	√	√	3+1-ch	TSSOP-38	SAF-XC866-4FRIBCINCT-ND▲	7.05	5.61	SAF-XC866-4FRI BC
26.67	16K Flash	up to 4K	768	27	8/10	3	UART, SSC	—	√	√	3+1-ch	TSSOP-38	SAF-XC866-4FRIBCINTR-ND◊	6945.79/3,000		SAF-XC866-4FRI BC
20	32K OTP/ROM	—	1028	34	8/10	3	USART	√	√	√	4-ch	MQFP-44	SAK-C505CA-4EMCAINCT-ND▲	22.08	19.33	SAK-C505CA-4EM CA
20	32K OTP/ROM	—	1028	34	8/10	3	USART	√	√	√	4-ch	MQFP-44	SAK-C505CA-4EMCAINTR-ND◊	8971.43/1,000		SAK-C505CA-4EM CA
26.67	8K Flash	up to 4K	768	27	8/10	3	UART, SSC	—	√	√	3+1-ch	TSSOP-38	SAK-XC866-2FRIBCINCT-ND▲	5.97	4.75	SAK-XC866-2FRI BC
26.67	8K Flash	up to 4K	768	27	8/10	3	UART, SSC	—	√	√	3+1-ch	TSSOP-38	SAK-XC866-2FRIBCINTR-ND◊	5881.73/3,000		SAK-XC866-2FRI BC
26.67	16K Flash	up to 4K	768	27	8/10	3	UART, SSC	—	√	√	3+1-ch	TSSOP-38	SAK-XC866-4FRIBCINCT-ND▲	6.91	5.50	SAK-XC866-4FRI BC
26.67	16K Flash	up to 4K	768	27	8/10	3	UART, SSC	—	√	√	3+1-ch	TSSOP-38	SAK-XC866-4FRIBCINTR-ND◊	6807.55/3,000		SAK-XC866-4FRI BC
24	32K Flash	up to 8K	1792	48	8/10	4	2xUART, SSC	MultiCAN w/2 Nodes	√	√	3+1-ch	TQFP-64	SAK-XC888CM-8FFAABINCT-ND▲	5.90	4.60	SAK-XC888CM-8FFA AB
24	32K Flash	up to 8K	1792	48	8/10	4	2xUART, SSC	MultiCAN w/2 Nodes	√	√	3+1-ch	TQFP-64	SAK-XC888CM-8FFAABINTR-ND◊	8533.43/1,900		SAK-XC888CM-8FFA AB
24	32K Flash	up to 8K	1792	48	8/10	4	2xUART, SSC	MultiCAN w/2 Nodes	√	√	3+1-ch	TQFP-64	SAK-XC888CM-8FFAACINCT-ND▲	11.70	10.03	SAK-XC888CM-8FFA 5V AC
24	32K Flash	up to 8K	1792	48	8/10	4	2xUART, SSC	MultiCAN w/2 Nodes	√	√	3+1-ch	TQFP-64	SAK-XC888CM-8FFAACINTR-ND◊	8446.50/1,900		SAK-XC888CM-8FFA 5V AC

▲ Cut Tape ◊ Tape and Reel

Starter Kits / Evaluation Boards

B158-H8576-X-0-7600IN-ND	XC866 Easy Kit: Mini Evaluation Kit with XC866	**$95.38**
B158-H8548-X-0-7600IN-ND	XC866 Starter Kit: Full Evaluation Board with XC866	**$272.80**
B158-H8744-X-X-7600IN-ND	XC886/888 CLM Easy Kit: Mini Evaluation Kit	**$95.38**
B158-H8743-X-X-7600IN-ND	XC886/888 CLM Starter Kit: Full Evaluation Board	**$272.80**

16-Bit

Infineon's C166 Family, with pipelined 16-bit core architecture and optimized real-time embedded control peripherals, offers a wide range of performance variations. • C161: Cost optimized CPU and peripheral set control • C164: Lower pin count and price with excellent PWM capabilities and CAN apps • C165: Processor-oriented microcontroller with basic peripheral set • C167: High-end 16-bit microcontroller with on-chip CAN. The XC164CM series is the new family of enhanced 16-bit microcontroller XC166 which offers impressive DSP performance and advanced interrupt handling combined with a powerful integrated peripheral set, high performance and reliable on-chip Flash memory

Max. CPU Clock (MHz)	Oscillator	3V	ROM/OTP/ Flash (Byte)	RAM (Byte)	I/O Lines	ADC Inputs/ Max. Res. (Bit)	Timers/ Counters (16-Bit)	Serial I/O	Real Time Clock	CAN Interface 2.08 Active	Package	Digi-Key Part No.	Price Each		Infineon Part No.
													1	25	
25	PLL/Prescaler/Direct Input	—	256K Flash	2K	93	12/10	5	ASC+SSC	√	CAN	TQFP-128	SAB-C161CS-LFCAIN-ND	33.64	28.41	SAB-C161CS-LF CA
25	Prescaler/Direct Input	—	—	2K	63	—	5	ASC+SSC	—	—	MQFP-80	SAB-C161O-LMHAIN-ND§	14.58	13.13	SAB-C161O-LM HA
25	PLL/Prescaler/Direct Input	—	—	2K	76	4/10	5	ASC+SSC	√	—	TQFP-100	SAB-C161PI-LFCAINCT-ND▲	18.14	15.88	SAB-C161PI-LF CA
25	PLL/Prescaler/Direct Input	—	—	2K	76	4/10	5	ASC+SSC	√	—	TQFP-100	SAB-C161PI-LFCAINTR-ND◊	10317.76/1,400		SAB-C161PI-LF CA
25	PLL/Prescaler/Direct Input	—	—	4K	111	16/10	9	UART+SSC	√	CAN	MQFP-144	SAB-C167CR-LMHAIN-ND	25.46	21.50	SAB-C167CR-LM HA+
20	PLL/Prescaler/Direct Input	—	—	10K	93	12/10	9	ASC+SSC+I²C+J1850	√	2 x CAN	TQFP-128	SAF-C161CS-LFCAINCT-ND▲	45.52	42.39	SAF-C161CS-LF CA
20	PLL/Prescaler/Direct Input	—	—	10K	93	12/10	9	ASC+SSC+I²C+J1850	√	2 x CAN	TQFP-128	SAF-C161CS-LFCAINTR-ND◊	20013.42/1,000		SAF-C161CS-LF CA
20	Prescaler/Direct Input	√	—	1K	63	—	3	ASC+SSC	—	—	MQFP-80	SAF-C161K-LM3VHAINCT-ND▲	20.96	18.34	SAF-C161K-LM 3V HA
20	Prescaler/Direct Input	√	—	1K	63	—	3	ASC+SSC	—	—	MQFP-80	SAF-C161K-LM3VHAINTR-ND◊	7403.42/850		SAF-C161K-LM 3V HA
20	Prescaler/Direct Input	—	—	1K	63	—	3	ASC+SSC	—	—	MQFP-80	SAF-C161K-LMHAIN-ND	14.67	13.21	SAF-C161K-LM HA
25	Prescaler/Direct Input	—	—	2K	63	—	5	ASC+SSC	—	—	MQFP-80	SAF-C161O-L25MHAINCT-ND▲	20.16	17.64	SAF-C161O-L25M HA
25	Prescaler/Direct Input	—	—	2K	63	—	5	ASC+SSC	—	—	MQFP-80	SAF-C161O-L25MHAINTR-ND◊	7120.45/850		SAF-C161O-L25M HA
20	Prescaler/Direct Input	√	—	2K	63	—	5	ASC+SSC	—	—	MQFP-80	SAF-C161O-LM3VHAINCT-ND▲	20.16	17.64	SAF-C161O-LM 3V HA
20	Prescaler/Direct Input	√	—	2K	63	—	5	ASC+SSC	—	—	MQFP-80	SAF-C161O-LM3VHAINTR-ND◊	7120.45/850		SAF-C161O-LM 3V HA
20	Prescaler/Direct Input	—	—	2K	63	—	5	ASC+SSC	—	—	MQFP-80	SAF-C161O-LMHAINCT-ND▲	19.39	16.97	SAF-C161O-LM HA
20	Prescaler/Direct Input	—	—	2K	63	—	5	ASC+SSC	—	—	MQFP-80	SAF-C161O-LMHAINTR-ND◊	6851.51/850		SAF-C161O-LM HA
25	PLL/Prescaler/Direct Input	—	—	3K	76	4/10	5	ASC+SSC+I²C	√	—	TQFP-100	SAF-C161PI-L25FCAINCT-ND▲	20.00	17.51	SAF-C161PI-L25F CA
25	PLL/Prescaler/Direct Input	—	—	3K	76	4/10	5	ASC+SSC+I²C	√	—	TQFP-100	SAF-C161PI-L25FCAINTR-ND◊	11375.55/1,400		SAF-C161PI-L25F CA
25	PLL/Prescaler/Direct Input	—	—	3K	76	4/10	5	ASC+SSC+I²C	√	—	MQFP-100	SAF-C161PI-L25MCAINCT-ND▲	21.11	18.48	SAF-C161PI-L25M CA
25	PLL/Prescaler/Direct Input	—	—	3K	76	4/10	5	ASC+SSC+I²C	√	—	MQFP-100	SAF-C161PI-L25MCAINTR-ND◊	4453.18/500		SAF-C161PI-L25M CA
20	PLL/Prescaler/Direct Input	√	—	3K	76	4/10	5	ASC+SSC+I²C	√	—	TQFP-100	SAF-C161PI-LF3VCAINCT-ND▲	20.00	17.51	SAF-C161PI-LF 3V CA
20	PLL/Prescaler/Direct Input	√	—	3K	76	4/10	5	ASC+SSC+I²C	√	—	TQFP-100	SAF-C161PI-LF3VCAINTR-ND◊	11375.55/1,400		SAF-C161PI-LF 3V CA
20	PLL/Prescaler/Direct Input	—	—	3K	76	4/10	5	ASC+SSC+I²C	√	—	TQFP-100	SAF-C161PI-LFCAINCT-ND▲	19.05	16.67	SAF-C161PI-LF CA
20	PLL/Prescaler/Direct Input	—	—	3K	76	4/10	5	ASC+SSC+I²C	√	—	TQFP-100	SAF-C161PI-LFCAINTR-ND◊	10834.10/1,400		SAF-C161PI-LF CA
20	PLL/Prescaler/Direct Input	√	—	3K	76	4/10	5	ASC+SSC+I²C	√	—	MQFP-100	SAF-C161PI-LM3VCAINCT-ND▲	21.11	18.48	SAF-C161PI-LM 3V CA
20	PLL/Prescaler/Direct Input	√	—	3K	76	4/10	5	ASC+SSC+I²C	√	—	MQFP-100	SAF-C161PI-LM3VCAINTR-ND◊	4453.18/500		SAF-C161PI-LM 3V CA
20	PLL/Prescaler/Direct Input	—	—	3K	76	4/10	5	ASC+SSC+I²C	√	—	MQFP-100	SAF-C161PI-LMCAINCT-ND▲	20.12	17.61	SAF-C161PI-LM CA
20	PLL/Prescaler/Direct Input	—	—	3K	76	4/10	5	ASC+SSC+I²C	√	—	MQFP-100	SAF-C161PI-LMCAINTR-ND◊	4243.79/500		SAF-C161PI-LM CA
25	PLL/Prescaler/Direct Input	—	—	2K	63	—	5	ASC+SSC	√	—	MQFP-80	SAF-C161S-L25MAAINCT-ND▲	10.66	9.14	SAF-C161S-L25M AA
25	PLL/Prescaler/Direct Input	—	—	2K	63	—	5	ASC+SSC	√	—	MQFP-80	SAF-C161S-L25MAAINTR-ND◊	3559.66/850		SAF-C161S-L25M AA
20	PLL/Prescaler/Direct Input	√	—	2K	63	—	5	ASC+SSC	√	—	MQFP-80	SAF-C161S-LM3VAAINCT-ND▲	10.66	9.14	SAF-C161S-LM 3V AA
20	PLL/Prescaler/Direct Input	√	—	2K	63	—	5	ASC+SSC	√	—	MQFP-80	SAF-C161S-LM3VAAINTR-ND◊	3559.66/850		SAF-C161S-LM 3V AA
25	PLL/Prescaler/Direct Input	—	64K OTP	4K	59	8/10	5	ASC+SSC	√	CAN	MQFP-80	SAF-C164CI-8E25MDBIN-ND	27.93	23.59	SAF-C164CI-8E25M DB
20	PLL/Prescaler/Direct Input	—	64K OTP	4K	59	8/10	5	ASC+SSC	√	CAN	MQFP-80	SAF-C164CI-8EMCBINCT-ND▲	34.20	31.84	SAF-C164CI-8EM CB
20	PLL/Prescaler/Direct Input	—	64K OTP	4K	59	8/10	5	ASC+SSC	√	CAN	MQFP-80	SAF-C164CI-8EMCBINTR-ND◊	13030.05/850		SAF-C164CI-8EM CB
20	PLL/Prescaler/Direct Input	—	64K OTP	4K	59	8/10	5	ASC+SSC	√	CAN	MQFP-80	SAF-C164CI-8EMDBINCT-ND▲	34.20	31.84	SAF-C164CI-8EM DB
20	PLL/Prescaler/Direct Input	—	64K OTP	4K	59	8/10	5	ASC+SSC	√	CAN	MQFP-80	SAF-C164CI-8EMDBINTR-ND◊	13030.05/850		SAF-C164CI-8EM DB
20	PLL/Prescaler/Direct Input	—	32K OTP	2K	50	8/12	5	ASC+SSC	√	CAN	TQFP-64	SAF-C164CM-4EFABINCT-ND▲	31.84	27.86	SAF-C164CM-4EF AB
20	PLL/Prescaler/Direct Input	—	32K OTP	2K	50	8/12	5	ASC+SSC	√	CAN	TQFP-64	SAF-C164CM-4EFABINTR-ND◊	24572.80/1,900		SAF-C164CM-4EF AB
25	PLL/Prescaler/Direct Input	—	—	2K	77	—	5	ASC+SSC	—	—	TQFP-100	SAF-C165-L25FHAINCT-ND▲	29.39	27.36	SAF-C165-L25F HA
25	PLL/Prescaler/Direct Input	—	—	2K	77	—	5	ASC+SSC	—	—	TQFP-100	SAF-C165-L25FHAINTR-ND◊	18087.23/1,400		SAF-C165-L25F HA
25	PLL/Prescaler/Direct Input	—	—	3K	72	—	5	ASC+SSC	—	—	MQFP-100	SAF-C165-L25MHAINCT-ND▲	31.77	29.59	SAF-C165-L25M HA
25	PLL/Prescaler/Direct Input	—	—	3K	72	—	5	ASC+SSC	—	—	MQFP-100	SAF-C165-L25MHAINTR-ND◊	7395.71/500		SAF-C165-L25M HA

▲ Cut Tape ◊ Tape and Reel § Tray

(Continued)

Microcontrollers
16-Bit *(Cont.)*

Max. CPU Clock (MHz)	Oscillator	3V	ROM/OTP/ Flash (Byte)	RAM (Byte)	I/O Lines	ADC Inputs/ Max. Res. (Bit)	Timers/ Counters (16-Bit)	Serial I/O	Real Time Clock	CAN Interface 2.08 Active	Package	Digi-Key Part No.	Price Each		Infineon Part No.
													1	25	
20	PLL/Prescaler/Direct Input	√	—	2K	77	—	5	ASC+SSC	—	—	TQFP-100	SAF-C165-LF3VHAINCT-ND▲	29.39	27.36	SAF-C165-LF 3V HA
20	PLL/Prescaler/Direct Input	√	—	2K	77	—	5	ASC+SSC	—	—	TQFP-100	SAF-C165-LF3VHAINTR-ND◊	18087.23/1,400		SAF-C165-LF 3V HA
20	PLL/Prescaler/Direct Input	—	—	2K	77	—	5	ASC+SSC	—	—	TQFP-100	SAF-C165-LFHAINCT-ND▲	31.52	27.59	SAF-C165-LF HA
20	PLL/Prescaler/Direct Input	—	—	2K	77	—	5	ASC+SSC	—	—	TQFP-100	SAF-C165-LFHAINTR-ND◊	17927.73/1,400		SAF-C165-LF HA
20	PLL/Prescaler/Direct Input	√	—	2K	77	—	5	ASC+SSC	—	—	MQFP-100	SAF-C165-LM3VHAINCT-ND▲	30.70	28.58	SAF-C165-LM 3V HA
20	PLL/Prescaler/Direct Input	√	—	2K	77	—	5	ASC+SSC	—	—	MQFP-100	SAF-C165-LM3VHAINTR-ND◊	7145.01/500		SAF-C165-LM 3V HA
20	PLL/Prescaler/Direct Input	—	—	3K	72	—	5	ASC+SSC	—	—	MQFP-100	SAF-C165-LMHAINCT-ND▲	30.14	28.07	SAF-C165-LM HA
20	PLL/Prescaler/Direct Input	—	—	3K	72	—	5	ASC+SSC	—	—	MQFP-100	SAF-C165-LMHAINTR-ND◊	7015.21/500		SAF-C165-LM HA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164CM-4F20FAAINCT-ND▲	18.99	16.62	SAF-XC164CM-4F20F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164CM-4F20FAAINTR-ND◊	14660.44/1,900		SAF-XC164CM-4F20F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164CM-4F40FAAINCT-ND▲	19.94	17.45	SAF-XC164CM-4F40F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164CM-4F40FAAINTR-ND◊	15393.53/1,900		SAF-XC164CM-4F40F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164CM-8F20FAAINCT-ND▲	19.62	17.17	SAF-XC164CM-8F20F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164CM-8F20FAAINTR-ND◊	15140.36/1,900		SAF-XC164CM-8F20F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164CM-8F40FAAINCT-ND▲	20.60	18.03	SAF-XC164CM-8F40F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164CM-8F40FAAINTR-ND◊	15897.17/1,900		SAF-XC164CM-8F40F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164GM-4F20FAAINCT-ND▲	18.42	16.13	SAF-XC164GM-4F20F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164GM-4F20FAAINTR-ND◊	14220.53/1,900		SAF-XC164GM-4F20F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164GM-4F40FAAINCT-ND▲	19.34	16.93	SAF-XC164GM-4F40F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164GM-4F40FAAINTR-ND◊	14931.64/1,900		SAF-XC164GM-4F40F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164GM-8F20FAAINCT-ND▲	19.03	16.65	SAF-XC164GM-8F20F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164GM-8F20FAAINTR-ND◊	14686.13/1,900		SAF-XC164GM-8F20F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164GM-8F40FAAINCT-ND▲	19.98	17.49	SAF-XC164GM-8F40F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164GM-8F40FAAINTR-ND◊	15420.46/1,900		SAF-XC164GM-8F40F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	—	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164KM-4F20FAAINCT-ND▲	17.87	15.64	SAF-XC164KM-4F20F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	—	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164KM-4F20FAAINTR-ND◊	13793.96/1,900		SAF-XC164KM-4F20F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	—	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164KM-4F40FAAINCT-ND▲	18.76	16.42	SAF-XC164KM-4F40F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	—	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164KM-4F40FAAINTR-ND◊	14483.83/1,900		SAF-XC164KM-4F40F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	—	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164KM-8F20FAAINCT-ND▲	18.46	16.15	SAF-XC164KM-8F20F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	—	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164KM-8F20FAAINTR-ND◊	14245.48/1,900		SAF-XC164KM-8F20F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	—	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164KM-8F40FAAINCT-ND▲	19.38	16.96	SAF-XC164KM-8F40F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	—	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAF-XC164KM-8F40FAAINTR-ND◊	14957.83/1,900		SAF-XC164KM-8F40F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	—	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164LM-4F20FAAINCT-ND▲	16.98	14.86	SAF-XC164LM-4F20F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	—	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164LM-4F20FAAINTR-ND◊	13104.34/1,900		SAF-XC164LM-4F20F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	—	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164LM-4F40FAAINCT-ND▲	17.83	15.60	SAF-XC164LM-4F40F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	—	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164LM-4F40FAAINTR-ND◊	13759.38/1,900		SAF-XC164LM-4F40F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	—	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164LM-8F20FAAINCT-ND▲	17.53	15.35	SAF-XC164LM-8F20F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	—	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164LM-8F20FAAINTR-ND◊	13533.38/1,900		SAF-XC164LM-8F20F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	—	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164LM-8F40FAAINCT-ND▲	18.41	16.11	SAF-XC164LM-8F40F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	—	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164LM-8F40FAAINTR-ND◊	14209.91/1,900		SAF-XC164LM-8F40F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164SM-4F20FAAINCT-ND▲	18.04	15.79	SAF-XC164SM-4F20F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164SM-4F20FAAINTR-ND◊	13927.34/1,900		SAF-XC164SM-4F20F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164SM-4F40FAAINCT-ND▲	18.95	16.58	SAF-XC164SM-4F40F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164SM-4F40FAAINTR-ND◊	14623.88/1,900		SAF-XC164SM-4F40F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164SM-8F20FAAINCT-ND▲	18.63	16.31	SAF-XC164SM-8F20F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164SM-8F20FAAINTR-ND◊	14383.30/1,900		SAF-XC164SM-8F20F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164SM-8F40FAAINCT-ND▲	19.57	17.12	SAF-XC164SM-8F40F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164SM-8F40FAAINTR-ND◊	15102.32/1,900		SAF-XC164SM-8F40F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164TM-4F20FAAINCT-ND▲	18.04	15.79	SAF-XC164TM-4F20F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164TM-4F20FAAINTR-ND◊	13927.34/1,900		SAF-XC164TM-4F20F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164TM-4F40FAAINCT-ND▲	18.95	16.58	SAF-XC164TM-4F40F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164TM-4F40FAAINTR-ND◊	14623.88/1,900		SAF-XC164TM-4F40F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164TM-8F20FAAINCT-ND▲	18.63	16.31	SAF-XC164TM-8F20F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164TM-8F20FAAINTR-ND◊	14383.30/1,900		SAF-XC164TM-8F20F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164TM-8F40FAAINCT-ND▲	19.57	17.12	SAF-XC164TM-8F40F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	—	TQFP-64	SAF-XC164TM-8F40FAAINTR-ND◊	15102.32/1,900		SAF-XC164TM-8F40F AA
20	PLL/Prescaler/Direct Input	—	—	10K	93	12/10	9	ASC+SSC+I2C+J1850	√	2 x CAN	TQFP-128	SAK-C161CS-LFCAINCT-ND▲	47.36	44.10	SAK-C161CS-LF CA
20	PLL/Prescaler/Direct Input	—	—	10K	93	12/10	9	ASC+SSC+I2C+J1850	√	2 x CAN	TQFP-128	SAK-C161CS-LFCAINTR-ND◊	20823.30/1,000		SAK-C161CS-LF CA
25	PLL/Prescaler/Direct Input	—	64K OTP	4K	59	8/10	5	ASC+SSC	√	CAN	MQFP-80	SAK-C164CI-8E25MDBIN-ND§	29.32	24.77	SAK-C164CI-8E25M DB
20	PLL/Prescaler/Direct Input	—	64K OTP	4K	59	8/10	5	ASC+SSC	√	CAN	MQFP-80	SAK-C164CI-8EMCBIN-ND§	27.93	23.59	SAK-C164CI-8EM CB
20	PLL/Prescaler/Direct Input	—	64K OTP	4K	59	8/10	5	ASC+SSC	√	CAN	MQFP-80	SAK-C164CI-8EMDBIN-ND§	27.93	23.59	SAK-C164CI-8EM DB
20	PLL/Prescaler/Direct Input	—	32K OTP	2K	50	8/12	5	ASC+SSC	√	CAN	TQFP-64	SAK-C164CM-4EFABINCT-ND▲	30.29	28.21	SAK-C164CM-4EF AB
20	PLL/Prescaler/Direct Input	—	32K OTP	2K	50	8/12	5	ASC+SSC	√	CAN	TQFP-64	SAK-C164CM-4EFABINTR-ND◊	25305.19/1,900		SAK-C164CM-4EF AB
25	PLL/Prescaler/Direct Input	—	128K Flash	2K	111	16/10	9	ASC+SSC	—	CAN	MQFP-144	SAK-C167CR-LMHAIN-ND§	28.00	23.65	SAK-C167CR-LM HA+
40	PLL/Prescaler/Direct Input	—	32K Flash	8K	111	24/10	9	ASC+SSC	√	CAN	MQFP-144	SAK-C167CS-L40MCAIN-ND§	36.93	31.19	SAK-C167CS-L40M CA+
25	PLL/Prescaler/Direct Input	—	32K Flash	8K	111	24/10	9	ASC+SSC	√	CAN	MQFP-144	SAK-C167CS-LMCAIN-ND§	31.25	26.39	SAK-C167CS-LM CA+
25	PLL/Prescaler/Direct Input	—	128K Flash	2K	111	16/10	9	ASC+SSC	—	CAN	MQFP-144	SAK-C167SR-LMHAIN-ND§	34.43	29.08	SAK-C167SR-LM HA+
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAK-XC164CM-4F20FAAINCT-ND▲	20.32	17.79	SAK-XC164CM-4F20F AA
20	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAK-XC164CM-4F20FAAINTR-ND◊	15686.72/1,900		SAK-XC164CM-4F20F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAK-XC164CM-4F40FAAINCT-ND▲	21.34	18.68	SAK-XC164CM-4F40F AA
40	PLL/Prescaler/Direct Input	—	32K Flash	4K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAK-XC164CM-4F40FAAINTR-ND◊	16470.95/1,900		SAK-XC164CM-4F40F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAK-XC164CM-8F20FAAINCT-ND▲	20.99	18.37	SAK-XC164CM-8F20F AA
20	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAK-XC164CM-8F20FAAINTR-ND◊	16200.24/1,900		SAK-XC164CM-8F20F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAK-XC164CM-8F40FAAINCT-ND▲	22.04	19.29	SAK-XC164CM-8F40F AA
40	PLL/Prescaler/Direct Input	—	64K Flash	6K	47	14	7	2xASC+2xSSC	√	TwinCAN	TQFP-64	SAK-XC164CM-8F40FAAINTR-ND◊	17010.15/1,900		SAK-XC164CM-8F40F AA
40	PLL/Prescaler/Direct Input	—	256K Flash	12K	79	14	11	2xASC+2xSSC	√	TwinCAN	TQFP-100	SAK-XC164CS-32F40FBB-AINCT-ND▲	37.56	34.97	SAK-XC164CS-32F40F BB-A
40	PLL/Prescaler/Direct Input	—	256K Flash	12K	79	14	11	2xASC+2xSSC	√	TwinCAN	TQFP-100	SAK-XC164CS-32F40FBB-AINTR-ND◊	23118.61/1,400		SAK-XC164CS-32F40F BB-A

▲ Cut Tape ◊ Tape and Reel § Tray

Starter Kits / Evaluation Boards

B158-H8961-X-X-7600IN-ND	Easy Kit for XC164CM: Mini Evaluation Board	**$249.38**
B158-H8869-X-X-7600IN-ND	U CAN Starter Kit for XC164CM	**$78.75**
B158-H8962-X-X-7600IN-ND	Easy Kit for XC164CS: Mini Evaluation Board	**$191.39**
B158-H8048-X-X-7600IN-ND	Full Starter Kit for XC161	**$499.16**
B158-H8963-X-X-7600IN-ND	Easy Kit for XC167CI: Mini Evaluation Board	**$180.05**

(Continued)

Infineon Microcontrollers *(Cont.)*

32-Bit

The TriCore™ is the first unified, single-core, 32-bit microcontroller-DSP architecture optimized for real-time embedded systems. The TriCore Instruction Set Architecture (ISA) combines the real-time capability of a microcontroller, the computational power of a DSP, and the high performance/price features of a RISC load/store architecture, in a compact re-programmable core.

Max. CPU Clock (MHz)	FPU	MMU	PCP	SRAM (Byte)	ROM/OTP/ Flash/ eDRAM (Byte)	I/O Lines	CAN	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Infineon Part No.
100	√	√	—	144K	—	72	—	LBGA-208	SAF-TC1100-L100EB-GBBINCT-ND▲	36.29	33.79	SAF-TC1100-L100EB-G BB
100	√	√	—	144K	—	72	—	LBGA-208	SAF-TC1100-L100EB-GBBINTR-ND◊	15953.57/1,000		SAF-TC1100-L100EB-G BB
150	√	√	—	144K	—	72	—	LBGA-208	SAF-TC1100-L150EB-GBBINCT-ND▲	38.83	36.15	SAF-TC1100-L150EB-G BB
150	√	√	—	144K	—	72	—	LBGA-208	SAF-TC1100-L150EB-GBBINTR-ND◊	17070.21/1,000		SAF-TC1100-L150EB-G BB
100	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1115-L100EB-GBBINCT-ND▲	38.82	36.15	SAF-TC1115-L100EB-G BB
100	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1115-L100EB-GBBINTR-ND◊	17069.45/1,000		SAF-TC1115-L100EB-G BB
150	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1115-L150EB-GBBINCT-ND▲	42.69	39.75	SAF-TC1115-L150EB-G BB
150	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1115-L150EB-GBBINTR-ND◊	18768.89/1,000		SAF-TC1115-L150EB-G BB
100	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1130-L100EB-GBBINCT-ND▲	45.68	42.53	SAF-TC1130-L100EB-G BB
100	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1130-L100EB-GBBINTR-ND◊	20082.53/1,000		SAF-TC1130-L100EB-G BB
150	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1130-L150EB-GBBINCT-ND▲	50.22	46.76	SAF-TC1130-L150EB-G BB
150	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1130-L150EB-GBBINTR-ND◊	22081.09/1,000		SAF-TC1130-L150EB-G BB
66	√	—	—	48K	1M Flash	81	—	LQFP-176	SAF-TC1161-128F66HLAAIN-ND	30.60	25.85	SAF-TC1161-128F66HL AA
66	√	—	—	48K	1M Flash	81	MultiCAN	LQFP-176	SAF-TC1162-128F66HLAAIN-ND	32.40	27.37	SAF-TC1162-128F66HL AA
80	√	—	√	80K	1.5M Flash	81	—	LQFP-176	SAF-TC1165-192F80HLAAIN-ND	37.08	31.32	SAF-TC1165-192F80HL AA
80	√	—	√	80K	1.5M Flash	81	MultiCAN	LQFP-176	SAF-TC1166-192F80HLAAIN-ND	38.89	32.84	SAF-TC1166-192F80HL AA

▲ Cut Tape ◊ Tape and Reel

Starter Kits

B158-H8690-X-0-7600IN-ND	Full Starter Kit for TC116X	**$509.52**
B158-H8539-G2-X-7600IN-ND	Full Starter Kit for TC176X	**$668.02**
B158-H8537-G2-X-7600IN-ND	Full Starter Kit for TC179X	**$668.02**

KEIL™ An ARM® Company

PK51 Professional Developer's Kit

The PK51 Professional Developer's Kit for the 8051 microcontroller family supports all 8051 derivatives including new devices with extended memory and instruction sets. On-chip peripherals and other key features of the 8051 are easy to access with the PK51 Professional Developer's Kit.

PK51-ND **$3295.00**

CA51 Compiler Kit

The CA51 Compiler Kit for the 8051 microcontroller family supports all 8051 derivatives including classic devices and IP cores from companies like Analog Devices, Atmel, Cypress Semiconductor, Dallas Semiconductor, Infineon, Intel, NXP, Silicon Labs, STMicroelectronics, Texas Instruments, and Winbond. On Chip peripherals and other key features of the 8051 are easy to access with the CA51 Compiler Kit.

CA51-ND **$1895.00**

RealView® Microcontroller Development Kit

The RealView Microcontroller Development Kit (MDK) supports ARM7, ARM9, and Cortex-M3 technology-based microcontrollers from Analog Devices, Atmel, Freescale, Luminary, NXP, OKI, Samsung, Sharp, STMicroelectronics, and Texas Instruments.

MDK-ARM-ND **$4895.00**

RealView® Real-Time Library

The RealView Real-Time Library is a collection of tightly-coupled libraries that are designed to solve the real-time and communication challenges of embedded systems based on ARM powered MCU devices. It also includes several drivers that interface the RTX Real-Time with various communication interfaces.

RTL-ARM-ND **$4195.00**

MCBXC88x Evaluation Board

The MCBXC88x Evaluation Board introduces you to the Infineon XC88x microcontroller family and allows you to create and test working programs for this 8051-based architecture. The CAN interface, analog input (via potentiometer), and eight LED's (on Port 3) make this board a great starting point for your next 8051 project.

MCBXC88x-ND **$149.00**

MCBXC167 Evaluation Board

The MCBXC167 Evaluation Board introduces you to the Infineon XC16x microcontroller family and allows you to create and test working programs for this advanced architecture. The board connects to your PC using the serial port (for Flash download) or the OCDS interface (for program debug using Keil ULINK USB-JTAG Adapter and the µVision IDE and Debugger).

MCBXC167-BASIC-ND **$149.00**

MCBSTR7 Evaluation Board

The MCBSTR7 Evaluation Board introduces you to the STMicroelectronics STR710 ARM family and allows you to create and test working programs for this advanced architecture. The board connects to your PC using the serial port (for Flash download) or the JTAG interface (for program debug using Keil ULINK USB-JTAG Adapter and the µVision IDE and Debugger).

MCBSTR7-ND **$149.00**

MCBSTR9 Evaluation Board

The MCBSTR9 Evaluation Board introduces you to the STMicroelectronics ARM9 family and allows you to create and test working programs for this advanced architecture. The board connects to your PC using the JTAG interface (for program debug using Keil ULINK USB-JTAG Adapter and the µVision IDE and Debugger). It provides serial (RS-232), CAN, Ethernet, and USB interfaces as well as eight LEDs, analog input (via potentiometer) and several push buttons.

MCBSTR9-ND **$229.00**

MCBx51 Evaluation Board

The MCBx51 single-board computer is an evaluation board that supports numerous 8051-compatible and 251-compatible devices. The MCBx51 allows you to investigate the capabilites of the 8051 and 251 and create real working programs with the Keil development tools. The MCBx51 works with any 44-pin 8051-compatible or 251-compatible device.

MCBx51-ND **$295.00**

MCB950 Evaluation Board

The MCB950 Evaluation Board is a versatile, flexible prototype board for the NXP P89LPC952 microcontroller family. It includes the Keil µVision LPC Development Studio which allows you to create and debug programs that program into the on-chip Flash ROM using FlashMagic.

MCB950-ND **$129.00**

ULINK USB-JTAG Adapter

The ULINK USB Interface Adapter connects your PC's USB port to your target hardware (via JTAG or OCDS) and allows you to debug embedded programs running on target hardware.

ULINK2-ND **$395.00**

CMOS Image Sensors

Specifications	KAC-9618	KAC-9619	KAC-9628	KAC-9647
Array Format Total (H x V) Active	664 x 504 648 x 488	664 x 504 648 x 488	664 x 504 648 x 488	672 x 488 648 x 488
Effective Image Area Total (H x V in mm) Total	4.98 x 3.78 4.86 x 3.66	4.98 x 3.78 4.86 x 3.66	4.98 x 3.78 4.86 x 3.66	2.93 x 4.03 2.93 x 3.89
Optical Format (Inch)	1/3	1/3	1/3	1/4
Pixel Size (µm)	7.5 x 7.5	7.5 x 7.5	7.5 x 7.5	6.0 x 6.0
Video Outputs (Bit Digital)	8, 10 and 12	8, 10 and 12	8, 10 and 12	8 and 10
Frame Rate (Frames per second)	30	30	30	68
Dynamic Range (dB linear mode) (dB non-linear mode)	62 110	62 110	62 110	57 —
Electronic Shutter	Rolling Reset	Rolling Reset	Rolling Reset	Rolling Reset
FPN (%)	0.1	0.1	0.1	0.5
PRNU (%)	1.5	1.5	1.5	1.7
Sensitivity (V/lux.s)	5	5	2.7	2.5
Quantum Efficiency (%)	27	27	27	—
Color Mosaic	—	—	Bayer Pattern	Bayer Pattern
Fill Factor (%)	47	47	47	49
Package	48 CLCC	48 CLCC	48 CLCC	32 CLCC
Single Supply (V ±10%)	3.3	3.3	3.3	3.0
Power Consumption (mW)	120	120	120	130
Operating Temperature	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-10°C ~ 50°C

Sensors

Digi-Key Part No.	Price Each 1	25	100
KAC-9618-ND	25.05	23.38	21.71
KAC-9619-ND	26.25	24.50	22.75
KAC-9628-ND	26.25	24.50	22.75
KAC-9647-ND	21.15	19.74	18.33

Sensor Evaluation Kit

This software/hardware solution is designed to give the system designer a complete raw data evaluation toolset. Snapshots of any scene can be taken and the raw data of the captured image can be downloaded to a PC through the parallel port. Also included is SNAPS image processing software, which can be used to view and apply different image processing algorithms to the raw data of a captured image.

Kit Contents: • Dual-board base • C-mount block • C-mount lens • Power supply • Cables

KAC-96XXEVAL-KIT-ND	**$2992.50**

CMOS Image Sensors

VGA

Micron's VGA resolution sensors feature resolutions of 640x480 and 752x480, and offer on-chip camera functions and very low power consumption for extending battery life. Plus, variable functions including gain, frame rate, and exposure, and can be programmed through a simple two-wire serial interface.

Optical Format	Array	Resolution	Color Filter	Supply Voltage	Frame Rate (fps)	Package	Digi-Key Part No.		Price Each		Micron Part No.
								1	5	10	
1/4"	640H x 480V	VGA	Color	2.8	30	28-PLCC	557-1315-ND	12.69	10.58	9.99	MT9V011P11STC:B
			Color	2.8	30	48-CLCC	557-1308-ND	30.96	26.62	25.38	MT9V135C12STC
			Color	2.8	30	44-CLCC	557-1241-ND	29.38	25.27	24.09	MT9V131C12STC
			Color	2.8	15 ~ 90	44-ICSP	557-1272-ND	24.80	21.41	19.98	MT9V111I77ATC
			Color	2.8	15 ~ 90	44-ICSP	557-1273-ND	24.89	21.41	20.41	MT9V111IA7ATC
			Color	2.8	30 ~ 90	44-ICSP	557-1147-ND	29.87	25.69	24.49	MT9V111I99STC
			Color	2.8	30	52-IBGA	557-1238-ND	31.12	26.76	25.51	MT9V125IA7XTC
1/3"	752H x 480V	W-VGA	Color	3.3	60	52-IBGA	557-1166-ND	41.49	34.01	32.30	MT9V022IA7ATC
			Mono	3.3	60	52-IBGA	557-1205-ND	41.49	34.01	32.30	MT9V022IA7ATM
			Color	3.3	60	48-CLCC	557-1237-ND	41.49	34.01	32.30	MT9V032C12STC
			Mono	3.3	60	48-CLCC	557-1306-ND	34.94	28.64	27.20	MT9V032C12STM
			Color	3.3	60	52-IBGA	557-1267-ND	41.49	34.01	32.30	MT9V022I77ATC

Megapixel

Micron's megapixel-resolution sensors combine the image quality of CCD technology with the compact size, adaptability, and ease-of-design of CMOS. CMOS-based technology can simplify camera designs compared to conventional CCD technology, thereby enabling designers to create smaller, high-performance applications with shorter development periods.

Optical Format	Array	Resolution (MP)	Color Filter	Supply Voltage	Frame Rate (fps)	Package	Digi-Key Part No.		Price Each		Micron Part No.
								1	5	10	
1/4.5"	1280H x 1024V	1.6	Color	2.8	30 ~ 60	48-ILCC	557-1395-ND◆ ***NEW!***	44.63	40.20	38.18	MT9M032C12STC
	1280H x 1024V	1.6	Mono	2.8	30 ~ 60	48-ILCC	557-1396-ND◆ ***NEW!***	48.72	43.88	41.67	MT9M032C12STMU
1/3"	1280H x 1024V	1.3	Color	2.8	15	48-CLCC	557-1312-ND◆	39.26	32.18	30.56	MT9M131C12STC
	752H x 480V	—	Color	3.3	60	52-IBGA	557-1398-ND◆ ***NEW!***	41.49	34.01	32.30	MT9V023IA7XTC
	752H x 480V	—	Mono	3.3	60	52-IBGA	557-1401-ND◆ ***NEW!***	41.49	34.01	32.30	MT9V023IA7XTM
	752H x 480V	—	RCCC	3.3	60	52-IBGA	557-1404-ND◆ ***NEW!***	41.49	34.01	32.30	MT9V023IA7XTR
	752H x 480V	27	Color	3.6	60	48-CLCC	557-1407-ND◆ ***NEW!***	41.49	34.01	32.30	MT9V033C12STC
	752H x 480V	27	Mono	3.6	60	48-CLCC	557-1408-ND◆ ***NEW!***	41.49	34.01	32.30	MT9V033C12STM
1/3.2"	1600H x 1200V	2	Color	2.8	15	48-CLCC	557-1311-ND◆	48.13	39.46	37.47	MT9D131C12STC
1/2"	1280H x 1024V	1.3	Mono	3.3	30	48-CLCC	557-1151-ND◆	33.19	28.54	27.21	MT9M001C12STM
	2048H x 1536V	3	Color	3.3	12 ~ 93	48-PLCC	557-1164-ND◆	42.99	35.25	33.47	MT9T001P12STC
	2048H x 1536V	3	Color	3.3	12 ~ 93	48-PLCC	557-1264-ND◆	42.99	35.25	33.47	MT9T031P12STC
1/2.5"	2592H x 1944V	5	Color	2.8	14	48-ILCC	557-1262-ND◆	43.50	39.18	37.21	MT9P031I12STC
	2592H x 1944V	5	Mono	3.1	14	48-ILCC	557-1397-ND◆ ***NEW!***	58.38	52.59	49.94	MT9P031I12STM
	2592H x 1944V	5	Color	2.8	15 ~ 60	48-ILCC	557-1263-ND◆	43.43	39.12	37.15	MT9P401I12STC
1"	1280H x 1024V	1.3	Mono	3.3	500	280-PGA	557-1153-ND	1188.89	1120.00	1093.93	MT9M413C36STM
	1280H x 1024V	1.3	Color	3.3	500	280-PGA	557-1152-ND	1364.79	1285.71	1255.79	MT9M413C36STC

◆ ***RoHS Compliant***

Image Sensor Evaluation Kits

Micron Imaging's Demonstration system family supports the full line of Micron's CMOS image sensor products. Several software applications are provided with the demonstration system, which allows the user to display the data from the sensor on the host computer, and to change some basic settings of the sensor for evaluation purposes. A Software Development Kit (SDK) is also provided to customers who wish to write their own software applications to access the sensor on the Demo System.

Kit Includes: • Imaging Demo Camera Board • Sensor Head Board with Lens • USB 2.0 Cable • Tripod • Software • Users Manual

557-1156-ND◆	For use with MT9M001	**$1124.33**
557-1170-ND◆	For use with MT9V403, Color	**$10973.07**
557-1163-ND	For use with MT9T001	**$1124.33**
557-1159-ND	For use with MT9M413, Mono	**$11828.50**
557-1158-ND†	For use with MT9M413, Color	**$10634.52**
557-1248-ND◆	For use with MT9D131, Color	**$1124.33**
557-1250-ND◆	For use with MT9M032, Color	**$1061.86**
557-1411-ND◆	***NEW!*** For use with MT9M032, Color	**$1124.33**
557-1246-ND◆	For use with MT9M131, Color	**$1124.33**
557-1409-ND◆	For use with MT9M032, Mono	**$1183.50**
557-1258-ND◆	For use with MT9P031, Color	**$1124.33**
557-1429-ND◆	***NEW!*** For use with MT9P031, Mono	**$1124.33**
557-1431-ND◆	***NEW!*** For use with MT9P033, Color	**$1124.33**
557-1433-ND◆	***NEW!*** For use with MT9P033, Mono	**$1124.33**
557-1313-ND	For use with MT9P401, Color	**$1124.33**
557-1257-ND◆	For use with MT9T031, Color	**$1124.33**
557-1265-ND	For use with MT9V011, Color	**$1124.33**
557-1268-ND	For use with MT9V022, Color	**$1124.33**
557-1399-ND◆	***NEW!*** For use with MT9V023, Color	**$1124.33**
557-1402-ND◆	***NEW!*** For use with MT9V023, Mono	**$1124.33**
557-1405-ND◆	***NEW!*** For use with MT9V023, RCCC	**$1124.33**
557-1244-ND◆	For use with MT9V032, Mono	**$1124.33**
557-1249-ND◆	For use with MT9V032, Color	**$1124.33**
557-1256-ND◆	For use with MT9V111, Color	**$1124.33**
557-1239-ND	For use with MT9V125, Color	**$1124.33**
557-1242-ND	For use with MT9V131, Color	**$1124.33**
557-1247-ND◆	For use with MT9V135, Color	**$1124.33**

† With Frame Grabber ◆ ***RoHS Compliant***

Sensor Head Boards

The Sensor Head Boards include the image sensor and lens mounted with all necessary components. The Sensor Head Boards will connect to the Demo2 board (not included) to make a complete development system.

557-1165-ND◆	For use with MT9T001, Color	**$340.10**
557-1204-ND◆	For use with MT9V022, Mono	**$323.00**
557-1253-ND◆	For use with MT9D131, Color	**$340.10**
557-1261-ND	For use with MT9M001, Mono	**$323.00**
557-1255-ND◆	For use with MT9M032, Color	**$289.09**
557-1310-ND	For use with MT9M032, Mono	**$289.08**
557-1412-ND◆	***NEW!*** For use with MT9M032, Mono	**$340.10**
557-1428-ND◆	***NEW!*** For use with MT9M032, Color	**$340.10**
557-1251-ND◆	For use with MT9M131, Color	**$340.10**
557-1260-ND◆	For use with MT9P031, Color	**$340.10**
557-1430-ND◆	***NEW!*** For use with MT9P031, Mono	**$340.10**
557-1314-ND	For use with MT9P401, Color	**$323.00**
557-1259-ND◆	For use with MT9T031, Color	**$340.10**
557-1254-ND◆	For use with MT9V032, Color	**$340.10**
557-1307-ND	For use with MT9V032, Mono	**$340.10**
557-1432-ND◆	***NEW!*** For use with MT9V033, Color	**$340.10**
557-1434-ND◆	***NEW!*** For use with MT9V033, Mono	**$340.10**
557-1266-ND	For use with MT9V011, Color	**$323.00**
557-1162-ND	For use with MT9V111, Color	**$323.00**
557-1240-ND	For use with MT9V125, Color	**$340.10**
557-1243-ND	For use with MT9V131, Color	**$289.09**
557-1252-ND◆	For use with MT9V135, Color	**$340.10**
557-1400-ND◆	***NEW!*** For use with MT9V023, Color	**$340.10**
557-1403-ND◆	***NEW!*** For use with MT9V023, Mono	**$340.10**
557-1406-ND◆	***NEW!*** For use with MT9V023, RCCC	**$340.10**

◆ ***RoHS Compliant***

*i*Sensor™ Motion Sensor Products

By embedding motion sensing in your application, valuable improvements can be realized in precision, response time, reliability, safety, and security. Analog Devices' highly integrated, calibrated, and simple-to-implement *i*Sensor™ products make realizing those improvements easier and more cost-effective than ever before.

EDN innovation
HONORING EXCELLENCE IN ELECTRONICS
2006 WINNER

*i*Sensor Applications Quick Reference

Part Number	Acceleration	Rotation	Tilt	Shock	IMU/ 6DoF	ADISEVAL Daughter Boards
ADIS16003CCCZ	•					ADIS16003/PCBZ
ADIS16006CCCZ	•					ADIS16006/PCBZ
ADIS16080ACCZ		•				ADIS16080/PCBZ
ADIS16100ACC		•				ADIS16100/PCB
ADIS16120AML		•				—
ADIS16201CCCZ	•		•			ADIS16201/PCBZ
ADIS16203CCCZ			•			ADIS16203/PCBZ
ADIS16204BCCZ				•		ADIS16204/PCBZ
ADIS16250ACCZ		•				ADIS16250/PCBZ
ADIS16251ACCZ		•				ADIS16251/PCBZ
ADIS16255ACCZ		•				ADIS16255/PCBZ
ADIS16350AMLZ					•	ADIS16350/PCBZ

Introduction

Typical *i*Sensor integration allows system insertion with only power supply and a serial port interface. Precision factory calibration means no additional in-system motion test or calibration is required, which saves substantial equipment costs and production test time. Basic sensor tuning is accomplished post system insertion, via simple SPI commands. With solutions ranging from simple digital output inertial sensors to full six-degree-of-freedom IMUs, *i*Sensor products make motion sensing accessible to everyone, at 10x to 100x size savings and 5x to 10x cost savings.

ADIS16003/ADIS16006/ADIS16080/ADIS16100

Digital Output Accelerometers and Gyroscopes

For lowest cost and power, as well as smallest form factor, the following *i*Sensor products provide simple interfacing to combined inertial plus temperature sensors, over the industry standard SPI interface.

- ADIS16003: ±1.7 *g* acceleration sensing, dual axis
- ADIS16006: ±5 *g* acceleration sensing, dual axis
- ADIS16080: 80°/sec angular rate sensing, single axis
- ADIS16100: 300°/sec angular rate sensing, single axis

ADIS16350

Tri Axis Inertial Sensor

The ADIS16350 provides complete tri axis inertial sensing (both angular and linear motion) in a compact module fully ready for system integration. With Analog Devices' *i*MEMS sensor technology at its core, the ADIS16350 includes embedded processing for sensor calibration and tuning, as well as precision cross-axial alignment. An SPI interface allows for simple system interface and programming. The SPI port provides access to the following embedded sensors: X, Y, and Z axis angular rate; X, Y, and Z axis linear acceleration; Internal Temperature; Power Supply; and an Auxiliary analog input. System interfacing is simplified with additional programmable features including: in-system bias auto calibration, condition monitoring, digital filtering options, self test, and power management. An auxiliary DAC, ADC, and digital I/O port are also available. The ultra compact module measures 22.7mm x 23.2mm x 22.9mm, plus mounting extensions.

ADIS16201/ADIS16203

Programmable Dual-Axis Accelerometers and Inclinometers

The ADIS16201 is a dual-axis accelerometer, factory calibrated and fully programmable over a simple SPI interface. The core sensor provides a 1.7 *g* response in the x and y axis, and also has an embedded temperature sensor. The ADIS16201 also directly outputs the linear inclination (tilt) angle of the component. Factory calibration provides a highly stable bias and sensitivity, which can also be in-system tuned with a simple auto-zero command, which, for instance, will align the components zero-degree reference with the system axis. All critical parameters are programmable over the SPI port, allowing in-system tuning of digital filtering, rate/threshold alarms, sample rate, and power modes. Design complexity and implementation time are further reduced with single supply operation, auxiliary I/O ports, and a digital self test feature. For tilt sensing, the ADIS16201 provides two axes of linear inclination angle across ±90°, while the ADIS16203 provides a single-axis 360° response. These components are available in an 9.2 mm x 9.2 mm x 3.9 mm laminate-based land grid array package, and operate from -40°C to +125°C.

ADIS16250/ADIS16251/ADIS16255

Programmable Low Power Angular Rate Sensors

The ADIS16250, ADIS16251, and ADIS16255 gyroscopes provide angular rate and temperature sensing via a simple programmable SPI interface. The core gyro sensor is factory calibrated, delivering an in-run bias stability of 0.016°/sec. The ADIS16255 includes temperature calibration, improving in-system stability to as tight as 0.005°/sec/°C. These are the industry's first devices to provide digital range scaling, with options covering ±20°/sec to ±320°/sec, allowing selection of the best device sensitivity for the target application. All critical parameters are programmable over the SPI port, allowing in-system tuning of digital filtering, rate/threshold alarms, sample rate, and power modes. Design complexity and implementation time are further reduced with single-supply operation, auxiliary I/O ports, and a digital self test feature. These components are available in 11 mm x 11 mm x 5.5 mm laminate-based land grid array packages.

ADIS16204

Programmable Dual-Axis Digital High-*g* Accelerometer and Impact Sensor

With an internal high-*g* MEMS sensor (±70 *g* x-axis, ±37 *g* y-axis), the ADIS16204 is ideally suited for applications in impact detection, condition monitoring, safety/shut-off sensing, shock recording, and security systems. The only required interfaces are power supply and an SPI interface. The device includes an embedded programmable event recorder which captures peak events, RSS values, and a user-selectable 250 ms window of data around the desired event. The SPI port also provides access to temperature and power-supply readings. Design complexity and implementation time are further reduced with single-supply operation, auxiliary I/O ports, configurable trigger levels and power modes, and a digital self test feature. It is available in a 9.2 mm x 9.2 mm x 3.9 mm laminate-based land grid array package, and operates from -40°C to +105°C.

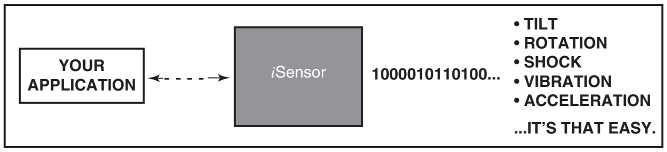

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ANALOG DEVICES

Blackfin Processor with Flash Memory for Industrial and Peripheral Intensive Applications

The Blackfin® Processor family has been expanded to address the ever-increasing need for more connection possibilities with two new family members. This connectivity is coupled with the high performance 16-/32-bit Blackfin embedded processor core, the flexible cache architecture, the enhanced DMA subsystem, and the Dynamic Power Management (DPM) functionality. System designers can take advantage of the combined control and signal processing capabilities of the processor core across a wide range of end applications through code compatibility of these new family members with existing Blackfin offerings.

A new addition to the Blackfin Processor family is the inclusion of integrated FLASH memory alongside the processor. There are two choices available in the ADSP-BF538F family, one with 512KB of onboard FLASH memory and one with 1MB of onboard FLASH memory. Both offer large code space for complex embedded systems and fast access time to the Blackfin core. This is in addition to the complementary Blackfin Processor memory system that offers a powerful and flexible cache architecture that can dynamically balance between the hard real-time tasks desired in SRAM and soft real-time control tasks and an Operating System (OS) requiring cache functionality.

Designed as an Integrated System

In addition to the embedded connectivity of CAN, the ADSP-BF538 processors include a variety of general purpose functions designed to minimize external IC count and offer broad control and communication. Peripherals include three SPI®-compatible ports, three UARTs, four SPORT ports, three multifunction timers, 54 general-purpose I/Os, dual Two-Wire Interface for I2C operation, a real-time clock, a watchdog timer, an event controller, and a JTAG/debug interface. The flexible Parallel Peripheral Interface (PPI) offers a direct connection to a variety of video encoders/decoders, display drivers, image sensors, and general-purpose converters.

Development Tools

Blackfin Processors are supported by:

— Analog Devices CROSSCORE® brand of industry leading development tools. The CROSSCORE components include the VisualDSP++® software development environment, EZ-KIT Lite® evaluation systems, EZ-Extender™ daughter boards, and PCI-based or USB-based emulators.

— Green Hills® Software award-winning MULTI® Embedded Software Development Environment and associated emulators.

The Blackfin Processor is Supported by Analog Devices Line of Robust and Flexible Development Tools

VisualDSP++®

VisualDSP++ delivers efficient project management, enabling programmers to move easily between editing, building, and debugging within a single interface.

Key features include:

- Optimizing C/C++ compiler
- Advanced plotting tools
- Embedded OS support (VDK)
- Award-winning statistical profiling
- TCP/IP and USB support
- Free software upgrades
- Free technical support

EZ-Extender®

A variety of Blackfin EZ-Extender daughter boards are available that allow developers to connect to a number of Analog Devices High Speed Converter (HSC) evaluation boards, camera evaluation boards, and external displays. Some of the EZ-Extenders contain a USB 2.0 interface and 10/100 Ethernet MAC and advanced audio and video circuitry.

EZ-KIT Lite® Evaluation Platform

A cost-effective method for initial evaluation and for learning more about ADI hardware and software development and prototype applications.

Green Hills® Software (GHS)

Along with Analog Devices, Green Hills Software has developed a multiyear product road map for hardware and software development tools, providing full support for the Blackfin Processor.

These include:

- MULTI® Integrated Development Environment (IDE)
- C, C++, and EC++ compilers
- Green Hills® Probe and Slingshot™ Hardware Debug Devices
- INTEGRITY® Real-Time Operating System
- *velOSity*™ Microkernel

From simulation to deployment, GHS technology saves time throughout a project development life cycle with powerful features and an efficient design that eliminates having to learn different tools and user interfaces.

Emulators

Analog Devices offers two High Performance (HP) emulator options for the Blackfin Processor. The HP PCI based emulator and the HP USB 2.0 based emulator deliver seamless exchange of real-time data from the host to the target application. These emulators are designed to take advantage of advanced features, such as the Background Telemetry Channel (BTC), a non-intrusive method for exchanging data between the host and target application without affecting the target system's real-time extended support characteristics.

Analog Devices also offers a USB 1.0 based emulator for the Blackfin Processor. This emulator offers the ease of use and portability associated with USB technology at a reduced price point.

Blackfin Test Integration Toolkit for NI LabVIEW

National Instruments LabVIEW toolkit provides a high level method for easily building test systems and utilities for Blackfin Processor systems.

By integrating testing, engineers can iteratively verify their design throughout the development process.

Early use of the Test Integration Toolkit reduces overall development time and improves the quality of products that use the Blackfin Processor.

LabVIEW Embedded Module for Blackfin Processors

The NI LabVIEW™ Embedded Module for Analog Devices Blackfin® Processors is a comprehensive graphical development environment for embedded design.

Jointly developed by ADI and NI, this module seamlessly integrates the LabVIEW Development Environment and Blackfin Embedded Processors.

Included in the LabVIEW Embedded Module is everything required to develop your application quickly in LabVIEW and ultimately target a custom-developed hardware solution, taking designs from concept to production in a single integrated development environment.

By using this approach, engineers and scientists can achieve faster development times, lower development cost, and still deliver a high performance embedded processing solution.

For more information: www.analog.com/processors

ANALOG DEVICES

Digital Signal Processors

ADI's embedded architectures feature simple yet powerful programming models and are supported by high quality development tools.

Blackfin® Processors: A new breed of embedded media processor designed specifically to meet the computational demands and power constraints of today's embedded audio, video and communications applications. Blackfin Processors combine a 32-bit RISC-like instruction set and dual 16-bit Multiply Accumulate signal processing functionality with the ease-of-use attributes found in general purpose microcontrollers.

TigerSHARC® Processors: This family offers the industry's highest performance per watt and per square inch of board space for the most demanding signal and image processing applications. The TigerSHARC's patented link port technology allows glueless interprocessor communication with arrays of two or more TigerSHARC Processors.

SHARC® DSPs: Using ADI's "Super" Harvard architecture, the SHARC family is optimized to enable a variety of real-time embedded signal processing applications and is known as a leader in premium audio applications.

ADSP-21xx/2199x and Mixed-Signal DSPs: The ADSP-21xx family architecture is built around a common instruction set architecture. All family members are code-compatible, fixed-point 16-bit DSPs. In addition, the ADSP-2199x family of mixed-signal DSPs provides a single-chip solution with signal processing and 14-bit ADC mixed signal integration.

MMACs Max.	Memory (kBytes)	External Memory Bus	PCI	USB Device	UARTs Timers	Watchdog Timer/RTC	Core Voltage (V) Max.	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each			Evaluation Platform	Development Software
											1	25	100		
Blackfin® Processors															
800	52	16-Bit	No	No	Yes	Yes	1.2	400	160-MBGA	ADSP-BF531SBBCZ400-ND◆	15.12	14.12	13.11	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
									169-BGA	ADSP-BF531SBBZ400-ND◆	20.00	18.67	17.33	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
									176-LQFP	ADSP-BF531SBSTZ400-ND◆	15.41	13.88	12.31	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	84	16-Bit	No	No	Yes	Yes	1.2	400	160-MBGA	ADSP-BF532SBBCZ400-ND◆	20.67	19.30	17.92	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
									169-BGA	ADSP-BF532SBBZ400-ND◆	24.15	22.54	20.93	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
									176-LQFP	ADSP-BF532SBSTZ400-ND◆	16.18	14.57	12.92	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
1500	148	16-Bit	No	No	Yes	Yes	1.3	400	169-BGA	ADSP-BF533SBBZ400-ND◆	25.23	23.55	21.87	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
							1.3	400	160-CSPBGA	ADSP-BF533SBBCZ400-ND◆	19.53	18.23	16.93	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
							1.4	500	169-BGA	ADSP-BF533SBBZ500-ND◆	27.62	25.78	23.94	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
							1.4	500	160-MBGA	ADSP-BF533SBBCZ500-ND◆	23.93	22.33	20.74	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
							1.3	533	160-MBGA	ADSP-BF533SBBCZ-5V-ND◆	25.19	23.51	21.83	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
							1.3	600	160-MBGA	ADSP-BF533SKBCZ-6V-ND◆	31.50	29.40	27.30	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	132	16-Bit	No	No	Yes	Yes	1.2	400	182-MBGA	ADSP-BF534BBCZ-4A-ND◆	19.34	18.05	16.76	ADZS-BF537-EZLITE	VDSP-BLKFN-PC-FULL
800								400	208-MBGA	ADSP-BF534BBCZ-4B-ND◆	19.34	18.05	16.76	ADZS-BF537-EZLITE	VDSP-BLKFN-PC-FULL
1000								500	182-MBGA	ADSP-BF534BBCZ-5A-ND◆	24.02	22.42	20.82	ADZS-BF537-EZLITE	VDSP-BLKFN-PC-FULL
700	308	32-Bit	Yes	Yes	Yes	Yes	1.6	300	260-BGA	ADSP-BF535PKB-300-ND	61.05	56.98	52.91	ADDS-BF535-EZLITE	VDSP-BLKFN-PC-FULL
								300	260-BGA	ADSP-BF535PKBZ-300-ND◆	55.50	51.80	48.10	ADDS-BF535-EZLITE	VDSP-BLKFN-PC-FULL
								350	260-BGA	ADSP-BF535PKB-350-ND	76.32	71.24	66.15	ADZS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	100	16-Bit	No	No	Yes	Yes	1.2	400	182-MBGA	ADSP-BF536BBCZ-4A-ND◆	20.45	19.09	17.72	ADZS-BF537-EZLITE	VDSP-BLKFN-PC-FULL
1000	132	16-Bit	No	No	Yes	Yes	1.2	500	182-MBGA	ADSP-BF537BBCZ-5AV-ND◆ ***NEW!***	29.78	27.79	25.81	ADZS-BF537-EZLITE	VDSP-BLKFN-PC-FULL
1200							1.2	600	182-MBGA	ADSP-BF537KBCZ-6AV-ND◆ ***NEW!***	33.08	30.87	28.67	ADZS-BF537-EZLITE	VDSP-BLKFN-PC-FULL
1000	148	16-Bit	No	No	Yes	Yes	1.2	400	316-MBGA	ADSP-BF538BBCZ-4A-ND◆	25.01	23.34	21.68	—	—
								400	316-MBGA	ADSP-BF538BBCZ-4F4-ND◆ ***NEW!***	30.05	28.05	26.04	—	—
								400	316-MBGA	ADSP-BF538BBCZ-4F8-ND◆	31.61	29.50	27.40	—	—
								500	316-MBGA	ADSP-BF538BBCZ-5A-ND◆	25.41	23.72	22.03	—	—
								500	316-MBGA	ADSP-BF538BBCZ-5F4-ND◆	30.66	28.62	26.58	—	—
								500	316-MBGA	ADSP-BF538BBCZ-5F8-ND◆	32.24	30.09	27.94	—	—
2400	328	32-Bit	No	No	Yes	Yes/No	1.2	500	297-PBGA	ADSP-BF561SBBZ500-ND◆	43.50	40.60	37.70	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
								600	297-PBGA	ADSP-BF561SBBZ600-ND◆	50.70	47.32	43.94	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
								500	297-PBGA	ADSP-BF561SKBZ500-ND◆	43.20	40.32	37.44	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
								600	297-PBGA	ADSP-BF561SKBZ600-ND◆	46.58	43.47	40.37	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
								500	256-CPBGA	ADSP-BF561SBBCZ-5A-ND◆	41.79	39.01	36.22	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
								600	256-CPBGA	ADSP-BF561SKBCZ-6A-ND◆	45.45	42.42	39.39	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
								500	256-CSPBGA	ADSP-BF561SKBCZ-5V-ND◆	43.22	40.34	37.46	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL
								600	256-CSPBGA	ADSP-BF561SKBCZ-6V-ND◆	47.88	44.69	41.50	ADZS-BF561-EZLITE	VDSP-BLKFN-PC-FULL

◆ ***RoHS Compliant***

Blackfin® DSP uClinux Kernel Board Support Package for the ADSP-BF537/533 Processor

The STAMP includes an ADSP-BF533 development board and a recent copy of the open source development tools (GCC 3.3.x) and the uClinux 2.6.x Kernel. The CD also includes documentation, board schematics, Gerbers, and layout files.
The latest version of all the tools can be found on the http://blackfin.uclinux.org website.

ADZS-BF537-STAMP-ND *(RoHS Compliant)* **$212.50**

Daughter Boards

AD7476A-DBRD-ND	Evaluation Board for AD7476A	**$31.25**
AD7476-DBRD-ND	Evaluation Board for AD7476	**$31.25**
AD7940-DBRD-ND	Evaluation Board for AD7940 Stamp SPI	**$37.50**

MMACs	On-Chip Memory (M-Bit)	External Memory (M-Bit)	Parallel Bus	Core Voltage / IO (V)	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each			Evaluation Platform	Development Software
								1	25	100		
TigerSHARC® Processors												
2000	6	32/64	Yes	1.2/3.3	300	625-BGA	ADSP-TS101SAB1000-ND	334.95	312.62	290.29	ADDS-TS101S-EZLITE	VDSP-TS-PC-FULL
2400						484-BGA	ADSP-TS101SAB2100-ND	399.30	372.68	346.06	ADDS-TS101S-EZLITE	VDSP-TS-PC-FULL

MMACs	MFLOPs	On-Chip SRAM (M-Bit)	On-Chip ROM (M-Bit)	Serial Ports	Link Ports	Core Voltage (V)	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each			Evaluation Platform	Development Software
										1	25	100		
SHARC® DSPs														
33	99	4	0	2	6	5	33	240-MQFP	ADSP-21060KS-133-ND	489.78	457.13	424.48	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL

(Continued)

MMACs	MFLOPs	On-Chip SRAM (M-Bit)	On-Chip ROM (M-Bit)	Serial Ports	Link Ports	Core Voltage (V)	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each			Evaluation Platform	Development Software
										1	25	100		
40	120	1	0	2	0	5	40	240-MQFP	ADSP-21061KSZ-160-ND◆	103.14	96.27	89.39	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
		1			0	3.3		240-MQFP	ADSP-21061LKSZ-160-ND◆	66.86	62.40	57.95	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
		2			0	3.3		240-MQFP	ADSP-21062LCS-160-ND	319.89	298.57	277.24	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
		2			6	3.3		225-BGA	ADSP-21062LKB-160-ND	280.19	261.51	242.83	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
		2			6	3.3		225-BGA	ADSP-21062LKBZ-160-ND◆	254.72	237.74	220.76	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
		2			6	3.3		240-MQFP	ADSP-21062LKSZ-160-ND◆	232.65	217.14	201.63	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
66	180	0.5	0	2	0	3.3	66	196-MBGA	ADSP-21065LKCAZ240-ND◆	66.95	62.49	58.02	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
	180							208-MQFP	ADSP-21065LKSZ-240-ND◆	42.53	39.69	36.86	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
	198							208-MQFP	ADSP-21065LKSZ-264-ND◆	67.73	63.21	58.70	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
160	480	4	0	2	6	2.5	80	400-BGA	ADSP-21160MKBZ-80-ND◆	310.13	289.45	268.78	ADDS-21160-EZLITE	VDSP-SHARC-PC-FULL
200	600	4	0	2	6	1.9	100	400-BGA	ADSP-21160NCB-100-ND	364.01	339.74	315.48	ADDS-21160-EZLITE	VDSP-SHARC-PC-FULL
								400-BGA	ADSP-21160NKB-100-ND	341.13	318.39	295.65	ADDS-21160-EZLITE	VDSP-SHARC-PC-FULL
400	1200	2	4	6	0	1.2	200	136-BGA	ADSP21262SKBCZ200-ND◆	28.89	26.97	25.04	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
								144-LQFP	ADSP-21262SKSTZ200-ND◆	30.33	28.31	26.29	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
800	2400	2	6	8	4	1.3	400	256-SBGA	ADSP-21369BBPZ-2A-ND◆	55.74	52.03	48.31	ADZS-21369-EZLITE	VDSP-SHARC-PC-FULL
								256-SBGA	ADSP-21369KBPZ-2A-ND◆	44.60	41.63	38.65	ADZS-21369-EZLITE	VDSP-SHARC-PC-FULL
								256-SBGA	ADSP-21369KBPZ-3A-ND◆ ***NEW!***	55.74	52.03	48.31	ADZS-21369-EZLITE	VDSP-SHARC-PC-FULL
532	1596	1	4	8	0	1.2	266	208-MQFP	ADSP-21371BSWZ-2B-ND◆ ***NEW!***	28.71	26.80	24.89	—	—
								208-MQFP	ADSP-21371KSWZ-2B-ND◆ ***NEW!***	23.93	22.33	20.74	—	—

◆ ***RoHS Compliant***

Program RAM Words (KWords)	Data RAM Words (KWords)	External Memory Bus (Bits)	Host Port	SPORT	SPI / UART	Timers	Core Voltage (V)	ADC	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each			Evaluation Platform	Development Software
												1	25	100		
ADSP-21xx/2199x and Mixed-Signal DSPs																
1	0.5	24	No	1	No	1	5	—	20	68-PLCC	ADSP-2105BPZ-80-ND◆	22.44	20.95	19.45	—	VDSP-21XX-PC-FULL
				2					25	68-PLCC	ADSP-2115BPZ-100-ND◆	31.26	29.18	27.10	—	VDSP-21XX-PC-FULL
2	1	24	Yes	2	No	1	5	—	20	100-PGA	ADSP-2111BG-80-ND	283.73	264.81	245.90	—	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	128-PQFP	ADSP-2181BSZ-133-ND◆	43.92	41.00	38.07	—	VDSP-21XX-PC-FULL
									33.3	128-TQFP	ADSP-2181BSTZ-133-ND◆	48.81	45.56	42.31	—	VDSP-21XX-PC-FULL
									33.3	128-PQFP	ADSP-2181KSZ-133-ND◆	43.92	41.00	38.07	—	VDSP-21XX-PC-FULL
									33.3	128-TQFP	ADSP-2181KSTZ-133-ND◆	48.81	45.56	42.31	—	VDSP-21XX-PC-FULL
									40	128-TQFP	ADSP-2181KSTZ-160-ND◆	48.81	45.56	42.31	—	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	3.3	—	28.8	128-LQFP	ADSP-2183BST-115-ND	50.61	47.24	43.87	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
									40	128-LQFP	ADSP-2183BST-160-ND	55.67	51.96	48.25	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
									52	128-LQFP	ADSP-2183KST-210-ND	55.67	51.96	48.25	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
									52	128-LQFP	ADSP-2183KSTZ-210-ND◆	50.61	47.24	43.87	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
4	4	24	No	2	No	1	5	—	40	100-LQFP	ADSP-2184BSTZ-160-ND◆	17.33	16.17	15.02	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
							3.3		40	100-LQFP	ADSP-2184LBST-160-ND	21.17	19.07	16.91	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	100-LQFP	ADSP-2185BSTZ-133-ND◆	48.30	45.08	41.86	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
							5			100-TQFP	ADSP-2185KST-133-ND	48.32	45.10	41.88	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
							5			100-LQFP	ADSP-2185KSTZ-133-ND◆	43.92	41.00	38.07	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
							3.3			100-LQFP	ADSP-2185LBST-133-ND	50.61	47.24	43.87	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	Yes	2	No	1	2.5	—	66	100-LQFP	ADSP-2185MBST-266-ND	21.92	20.46	19.00	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
			Yes				1.8		80	100-LQFP	ADSP-2185NKST-320-ND	21.45	20.02	18.59	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
			Yes				1.8		80	100-LQFP	ADSP-2185NKSTZ-320-ND◆	19.50	18.20	16.90	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
8	8	24	Yes	2	No	1	2.5	—	75	100-LQFP	ADSP-2186MKST-300-ND	19.04	17.15	15.21	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
							1.8		80	100-LQFP	ADSP-2186NBST-320-ND	16.20	15.12	14.04	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	32	24	Yes	2	No	1	3.3	—	52	100-TQFP	ADSP-2187LKST-210-ND	74.15	69.21	64.26	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
48	56	24	Yes	2	No	1	2.5	—	75	100-LQFP	ADSP-2188MKST-300-ND	60.99	56.93	52.86	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	48	24	Yes	2	No	1	1.8	—	80	144-MBGA	ADSP-2189NBSTZ-320-ND◆	43.32	40.44	37.55	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	32	16	Yes	3	Yes	3	2.5	—	160	144-LQFP	ADSP-2191MKSTZ-160-ND◆	32.12	29.98	27.84	ADDS-2191-EZLITE	VDSP-21XX-PC-FULL
4	4	24	Yes	1	Yes	3	2.5	Dual Ch.,14-Bit 20 MSPS	160	176-LQFP	ADSP-21990BST-ND	41.70	38.92	36.14	ADDS-21992-EZLITE	VDSP-21XX-PC-FULL
32	16	24	Yes	1	Yes	3	2.5	Dual Ch.,14-Bit 20 MSPS	160	176-LQFP	ADSP-21992BSTZ-ND◆	48.74	45.49	42.24	ADDS-21992-EZLITE	VDSP-21XX-PC-FULL
32	16	24	Yes	1	Yes	3	2.5	Dual Ch.,14-Bit 20 MSPS	100	176-LQFP	ADSP-21992YST-ND	48.74	45.49	42.24	ADDS-21992-EZLITE	VDSP-21XX-PC-FULL

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(Continued)

VisualDSP++™ Integrated Development Environment and LabVIEW™ Kits

VisualDSP++ INTERGRATED DEVELOPMENT ENVIRONMENT:
Features: VisualDSP++ is an easy to install and easy to use integrated software development and debugging environment that enables efficient management of projects from start to finish from within a single interface. VisualDSP++ supports all Analog Devices processor families. **Contents:** • Assembler • Linker • Simulator • C/C++ compiler • Debugger • PROM splitter • Graphical plotting • Expert Linker • Math, DSP and C/C++ runtime library • Integrated development environment • VisualDSP++ Kernel • Statistical profiling • VisualDSP++ Component Software Engineering

LabVIEW KITS:
Features: National Instruments LabVIEW Embedded Module for Analog Devices Blackfin® Processors is a comprehensive graphical development environment for embedded design. Jointly developed by ADI and National Instruments
LabVIEW Evaluation Kit Contents: • A comprehensive 60 day fully featured evaluation platform • LabVIEW Embedded for Blackfin Module, VisualDSP++ 4.5 • An ADSP-BF537 EZ-KIT Lite • Schematics • Cables • Headphones
LabVIEW Full Development Kit Contents: • LabVIEW Embedded for Blackfin Module • VisualDSP++ 4.5 • An ADSP-BF537 EZ-KIT Lite • Schematics • Cables • Headphones • One year National Instruments technical support subscription

VDSP-21XX-PC-FULL-ND	**$3718.75**
VDSP-BLKFN-PCFULL-ND	**$3718.75**
VDSP-BLKFNPCFLOAT-ND	**$4515.63**
VDSP-SHARC-PCFULL-ND	**$3500.00**
VDSP-TS-PC-FULL-ND	**$3718.75**
VDSP-LABVIEW-EVAL-ND LabVIEW Evaluation Kit	**$211.44**
VDSP-LABVIEW-EMB-ND◆ LabVIEW Full Development Kit	**$5307.19**

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Emulator Development Tools

Features:
All emulators require VisualDSP++ software for the corresponding processor.

ADDS-218X-ICE2.5V-ND	**$2119.69**
ADDS-HPPCI-ICE-ND	**$4250.00**
ADZS-HPUSB-ICE-ND◆	**$4250.00**
ADZS-USB-ICE-ND◆	**$1275.00**

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EZ-KIT Lite™ Evaluation Kits, Multimedia Kits, Audio Starter Kits and Extender Boards

EZ-KIT Lite Evaluation Kits: Features: The EZ-KIT Lite provides an easy way to evaluate the power of ADI's processors and begin to develop applications. **Contents:** • Stand-alone evaluation board • Evaluation suite of VisualDSP++ to facilitate architecture evaluations via a PC-hosted tool set.

EZ-KIT Lite users can: • Evaluate ADI's processors • Learn about DSP applications • Simulate and debug applications • Prototype applications

MMSK Multimedia Starter Kits: Features: Blackfin® Multimedia Starter Kit provides you everything you need to get started on a multimedia application. Use a Blackfin EZ-KIT Lite and EZ-Extenders daughter card to perform multimedia related tasks.

NEW! **Audio Starter Kit: Features:** Blackfin® Audio Starter Kit provides you with everything you need to get started on an audio application. Use a Blackfin EZ-KIT Lite and EZ-Extenders daughter board(s) to perform audio related tasks.

EZ-Extender Boards: Features: EZ-Extender daughter boards aids in design and prototype. The board extends the capabilities of the evaluation system by providing a connection to various signal chains.

EZ-KIT Lite Evaluation Kits

ADZS-TS201S-EZLITE-ND◆	**$1057.19**
ADDS-21065LEZLITE-ND	**$381.23**
ADDS-21161NEZLITE-ND	**$525.94**
ADZS-21262-EZLITE-ND◆	**$525.94**
ADZS-21369-EZLITE-ND◆	**$525.94**
ADZS-BF527-EZLITE-ND◆ *NEW!*	**$950.94**
ADZS-BF533-EZLITE-ND◆	**$425.00**
ADZS-BF537-EZLITE-ND◆	**$371.88**
ADZS-BF538F-EZLITE-ND◆	**$478.13**
ADZS-BF548-EZLITE-ND◆	**$1057.19**
ADZS-BF561-EZLITE-ND◆	**$525.94**

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MMSK Multimedia Starter Kits

ADZS-BF533-MMSKIT-ND◆	**$950.94**
ADZS-BF561-MMSKIT-ND◆	**$950.94**

NEW! Audio Starter Kit NEW!

ADZS-BF537-ASKIT-ND◆	**$796.88**

EZ-Extender Boards

ADZS-BF-EZEXT-1-ND◆	**$207.19**
ADZS-BFAV-EZEXT-ND◆	**$239.06**
ADZS-BFAUDIO-EZEXT-ND◆	**$239.06**
ADZS-BFFPGA-EZEXT-ND◆	**$345.31**
ADZS-USBLAN-EZEXT-ND◆	**$239.06**

DSP Based Motor Control Applications (ADSP-2100 Family Code Compatible)

ADMC401ADVEVALKIT-ND **$521.40**

Program RAM	Program ROM	Data RAM	Program FLASH	Voltage Reference	Clock (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	28-DIP	ADMCF326BN-ND	27.12	25.32	23.51
						28-SOIC	ADMCF328BR-ND	22.31	20.82	19.34
2K x 24-Bit	2K x 24-Bit	1K x 16-Bit	—	2.5V	26	144-LQFP	ADMC401BSTZ-ND◆	35.42	33.06	30.70

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Precision Analog Microcontrollers

MicroConverter™ ICs were the first to integrate true 12-bit to 24-bit analog precision ADCs, in-circuit reprogrammable Flash/EE memory and an on-chip 8052 or ARM core. Applications include industrial, instrumentation, communications, and automotive control.
Features: Precision Analog:
• 12-bit to 24-bit ADC resolution • Sample rates up to 1Msps • Flexible ADC input multiplexing • Programmable gain differential inputs • Self-calibration • On-chip 2.5V band gap reference • Single, dual or quad rail-to-rail DAC
Integrated Programmable Peripherals: • 8052 or ARM7 MCU core (up to 45 MIPS) • Flash/EE code memory (up to 62k) • Flash/EE data memory (up to 4k) • RAM (up to 8k) • Flexible SPI, I²C, and UART serial ports • High speed baud rate generator • Multiple PWM outputs

Program Memory (Kbytes)	Flash Data (Bytes)	RAM (Bytes)	I/O	ADC Channels	DAC Channels	PWM (16-Bit)	Timers (16-Bit)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
8	640	256	32	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC812BSZ-ND◆	15.71	14.15	12.55
			16	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 125°C	28-TSSOP	ADUC814ARUZ-ND◆	8.56	7.71	6.84
			16	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 125°C	28-TSSOP	ADUC814BRUZ-ND◆	10.00	9.00	7.98
			32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	56-LFCSP	ADUC816BCP-ND	18.98	17.09	15.15
			32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC816BS-ND	18.98	17.09	15.15
8	640	256	32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC816BSZ-ND◆	15.53	14.49	13.46
			32	16 and 24 Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	56-LFCSP	ADUC824BCP-ND	21.21	19.80	18.39
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC831BCP-ND	18.24	16.43	14.57
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC831BSZ-ND◆	16.58	14.93	13.24
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC832BSZ-ND◆	16.58	14.93	13.24
62	4K	2K + 256	32	16 and 24 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC834BSZ-ND◆	21.00	19.60	18.20
			32	Dual, 16 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC836BSZ-ND◆	16.88	15.75	14.63
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC841BSZ62-3-ND◆	16.43	15.33	14.24
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC841BSZ62-5-ND◆	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC841BCP8-5-ND	12.41	11.18	9.91
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCPZ62-3-ND◆	16.43	15.33	14.24
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC842BSZ62-3-ND◆	18.24	16.43	14.57
			32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC842BSZ62-5-ND◆	16.43	15.33	14.24

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(Continued)

Precision Analog Microcontrollers *(Cont.)*

Program Memory (Kbytes)	Flash Data (Bytes)	RAM (Bytes)	I/O	ADC Channels	DAC Channels	PWM (16-Bit)	Timers (16-Bit)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP32-3-ND	11.48	9.19	7.75
			32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP32Z-5-ND◆	11.11	10.01	8.88
			32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP62-3-ND	13.08	11.78	10.45
			32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC843BSZ62-5-ND◆	13.08	11.78	10.45
			32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP8-3-ND	9.75	8.78	7.79
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC845BCP62-3-ND	20.78	19.39	18.01
62			32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC845BSZ62-5-ND◆	20.78	19.39	18.01
62			32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC845BSZ62-3-ND◆	20.78	19.39	18.01
8			32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC845BS8-5-ND	16.91	15.23	13.50
62			32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC847BCP62-3-ND	21.90	17.52	14.79
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS62-3-ND	18.24	16.43	14.57
62			32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BSZ62-5-ND◆	16.43	15.33	14.24
62			32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC848BCP62-5-ND	15.49	13.95	12.37
62			32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC848BCPZ62-5-ND◆	15.49	13.95	12.37
62			32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BSZ62-5-ND◆	15.49	13.95	12.37
32	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BSZ32-5-ND◆	12.41	11.18	9.91
8			32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC848BCP8-5-ND	11.32	9.06	7.65
8			32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BSZ8-5-ND◆	9.43	8.49	7.53

◆ *RoHS Compliant*

ARM7 Core Microconverter

RAM (Kbytes)	FLASH (Kbytes)	Downloader	GP I/O	ADC Channels	DAC Channels	PWM (16-Bit)	Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
						ADuC702x Series						
8	62	I²C	14	5 (12-Bit)	3 (12-Bit)	Single	-40°C~125°C	40-Lead LFCSP_VQ	ADUC7019BCPZ62I-ND	12.00	10.80	9.58
		UART	14	5 (12-Bit)	4 (12-Bit)	Single	-40°C~125°C	40-Lead LFCSP_VQ	ADUC7020BCPZ62-ND	12.88	11.60	10.29
		I²C	14	5 (12-Bit)	4 (12-Bit)	Single	-40°C~125°C	40-Lead LFCSP_VQ	ADUC7020BCPZ62I-ND	12.88	11.60	10.29
		UART	13	8 (12-Bit)	2 (12-Bit)	Single	-40°C~125°C	40-Lead LFCSP_VQ	ADUC7021BCPZ62-ND	10.36	9.33	8.28
		I²C	13	8 (12-Bit)	2 (12-Bit)	Single	-40°C~125°C	40-Lead LFCSP_VQ	ADUC7021BCPZ62I-ND	10.36	9.33	8.28
8	62	UART	13	10 (12-Bit)	—	Single	-40°C~125°C	40-Lead LFCSP_VQ	ADUC7022BCPZ62-ND	8.66	7.80	6.92
		UART	30	10 (12-Bit)	2 (12-Bit)	3-Phase	-40°C~125°C	64-Lead LFCSP_VQ	ADUC7024BCPZ62-ND	13.24	11.93	10.58
		UART	30	10 (12-Bit)	2 (12-Bit)	3-Phase	-40°C~125°C	64-Lead LQFP	ADUC7024BSTZ62-ND	13.24	11.93	10.58
		UART	30	12 (12-Bit)	—	3-Phase	-40°C~125°C	64-Lead LFCSP_VQ	ADUC7025BCPZ62-ND	11.33	10.20	9.05
		UART	30	12 (12-Bit)	—	3-Phase	-40°C~125°C	64-Lead LQFP	ADUC7025BSTZ62-ND	11.33	10.20	9.05
8	62	I²C	40	12 (12-Bit)	4 (12-Bit)	3-Phase	-40°C~125°C	80-Lead LQFP	ADUC7026BSTZ62I-ND§	15.00	14.00	13.00
		UART	40	12 (12-Bit)	4 (12-Bit)	3-Phase	-40°C~125°C	80-Lead LQFP	ADUC7026BSTZ62-ND§	15.00	14.00	13.00
		UART	40	16 (12-Bit)	—	3-Phase	-40°C~125°C	80-Lead LQFP	ADUC7027BSTZ62-ND§	12.16	10.95	9.71
		I²C	40	16 (12-Bit)	—	3-Phase	-40°C~125°C	80-Lead LQFP	ADUC7027BSTZ62I-ND	12.16	10.95	9.71
8	126	UART/ I²C	28	10 (12-Bit)	—	Generator	-40°C~125°C	64-LFCSP	ADUC7128BCPZ126-RLCT-ND†	13.16	11.85	10.51
									ADUC7128BCPZ126-RLTR-ND‡		23997.50/2,500	
8	126	UART/ I²C	28	10 (12-Bit)	—	Generator	-40°C~125°C	64-LQFP	ADUC7128BSTZ126-RLCT-ND†	13.66	12.30	10.91
									ADUC7128BSTZ126-RLTR-ND‡		14944.50/1,500	
8	126	UART/ I²C	40	12 (12-Bit)	—	Generator	-40°C~125°C	80-LQFP	ADUC7129BSTZ126-RLCT-ND†	14.66	13.20	11.71
									ADUC7129BSTZ126-RLTR-ND‡		10692.00/1,000	
4	32	JTAG	9	2 (16-Bit)	—	—	-40°C~115°C	48-LFCSP	ADUC7030BCPZ-8V-ND	11.91	10.73	9.51

§ Includes external memory interface † Cut Tape ‡ Tape and Reel

ADUC8xx QuickStart Development Kits

The “entry level” QuickStart Development System allows designers to rapidly evaluate MicroConverter performance and functionality, and then begin a prototype development. It fully supports assembly level code development via a serial port debug path and provides designers with access to a demonstration project of the C-level development environment available in QuickStart-Plus.

Kit Contents:

- Evaluation Board
- Serial Download/Debug Cable
- Sample Device(s)
- International Power Supply
- Software and Documentation

EVAL-ADUC812QS-ND	**$75.00**
EVAL-ADUC814QS-ND	**$75.00**
EVAL-ADUC814QSZ-ND◆ ***NEW!***	**$100.00**
EVAL-ADUC831QSZ-ND◆	**$75.00**
EVAL-ADUC832QSZ-ND◆	**$75.00**
EVAL-ADUC841QSZ-ND◆	**$75.00**
EVAL-ADUC842QS-ND	**$84.38**
EVAL-ADUC845QSZ-ND◆	**$75.00**
EVAL-ADUC847QSZ-ND◆	**$75.00**

◆ ***RoHS Compliant***

ARM7 Development Kits

Kit Contents:

- Software Development Tools
- Power Supply (Not included in Mini-Kit)
- Cables
- Evaluation Board
- JTAG Emulator (QSP only)

EVAL-ADUC7020MKZ-ND◆	**$31.25**
EVAL-ADUC7020QSZ-ND◆	**$85.00**
EVAL-ADUC7024QS-ND	**$102.00**
EVAL-ADUC7026QSZ-ND◆	**$85.00**
EVAL-ADUC7026QSPZ-ND◆	**$293.75**
EVAL-ADUC7028QSZ-ND◆	**$85.00**
EVAL-ADUC7032QSPZ-ND◆	**$293.75**
EVAL-ADUC7128QSPZ-ND◆	**$293.75**

◆ ***RoHS Compliant***

Improve Product Reliability and Reduce Overall System Cost

Choose R8C/2G, 2H and 2J MCUs

Renesas' R8C/2G, 2H and 2J microcontrollers (MCUs) are tailored for cost-sensitive applications in which MCU-based electronics replace electromechanical and discrete components. The small, economical devices provide key value-added on-chip functions that reduce overall system cost: comparators, 8MHz high-accuracy clock oscillator, power-on reset (POR) and low-voltage detect (LVD) circuits, and more.

These new MCUs are members of the popular low-cost R8C/Tiny series, based on a powerful 16-bit CISC-based architecture. They maintain compatibility with existing products and are available in compact 20- and 32-pin packages.

Specifications for R8C/2G, 2H, and 2J

CPU: 16-bit
Vcc min. (V): 2.2V
Vcc max. (V): 5.5V
On-chip oscillator: 8MHz
125kHz
32kHz subclock: Yes [a]
Low-voltage Detect: Yes
Power-on reset: Yes
Low-power modes: 4

Watchdog timer: Yes
8-bit timers: 3 [b]
16-bit timer: 1
Comparators: Yes
Serial (sync/async): 2 [c]
LIN interface: Yes
External interrupts: 5 [d]
Temp. range: -20° to 85°C
-40° to 85°C

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[a] R8C/2J: No [b] R8C/2J: 2 [c] R8C/2J: 1 [d] R8C/2H & 2J: 3

Featured Devices:

Group	Part Number	Flash	RAM (Bytes)	I/O Count	Temp.
R8C/2J	R5F212J0SNSP#U0	2KB	256	12	-20 to 85°C
R8C/2H	R5F212H1SNSP#U0	4KB	256	16	-20 to 85°C
R8C/2H	R5F212H2SNSP#U0	8KB	384	16	-20 to 85°C
R8C/2G	R5F212G4SNFP#U0	16KB	512	28	-20 to 85°C
R8C/2G	R5F212G6SNFP#U0	32KB	1K	28	-20 to 85°C

Development Tools

Subatomic Particle Board Demonstration Platform that includes:

- USB interface to PC
- R8C/25 microcontroller
- Switch, LEDs, light sensor, audio amplifier for sound playback
- Installer with hardware-interactive multimedia
- Free Renesas C Compiler with High-Performance Embedded Workshop (HEW) integrated development environment for up to 64KB of application code
- Sample projects and numerous other resources

R8C/2G Block Diagram

R8C/Tiny 16-bit CPU	**Flash Memory** (up to 32KB)	**RAM** (up to 1KB)
High-speed On-chip Oscillator (8MHz)	**Low-speed On-chip Oscillator** (125kHz)	**Sub-clock Oscillation Circuit** (32kHz)
Low-voltage Detect	**Power-on Reset**	**Watchdog Timer**
Timer RA (8-bit)	**Timer RB** (8-bit)	**Timer RE** (8-bit)
Timer RF (16-bit)	**Real-time Clock**	**Comparator** (2 ch)
Serial Clock sync./UART (2 ch)	**LIN Interface**	**On-chip Debug**

I/O: 28

Key Applications

- Building automation
- Industrial control
- Power tools
- Security systems
- Home appliances

Online Resources

Renesas Technology America (http://america.renesas.com)

- R8C/Tiny series specific information
- Application notes, sample code, etc.

Renesas Interactive (www.renesasinteractive.com)

- Convenient learning and evaluation environment
- Extensive library of online courses
- Free remote hardware/software setups for device & tool evaluation

Get Started Now!

Order your
R8C Subatomic
Particle Board

Part Number:
YR8CSPB

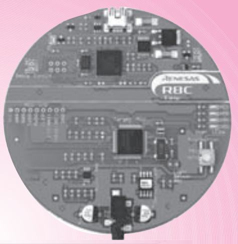

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H8 Family

H8 Value Series

Renesas Value Series Microcontrollers are low-cost embedded solutions with a 16-bit high performance CPU with up to 128KB of flash memory and high integration of on-chip peripherals.

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
ROMless	External ROM	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, IrDA, Smart Card	4/3/—	47	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	HD6413008FBL25NF-ND	5.10	4.08	3.45
									25MHz/3 ~ 3.6V	-20°C ~ 75°C		HD6413008FBL25V-ND◆	5.10	4.08	3.45
Flash	128K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2327BVFBL25V-ND◆	10.00	8.99	7.97
Flash	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, IrDA, Smart Card	4/3/—	79	25MHz/3 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF3024FBL25V-ND◆	7.98	6.39	5.39
Flash	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, IrDA, Smart Card	4/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3062BF25V-ND◆	9.55	8.58	7.61
												DF3062BFBL25V-ND◆	7.98	6.39	5.39
												HD64F3062BFBL25L-ND	7.98	6.39	5.39

H8 Tiny Series

The H8/Tiny series of MCUs provide 16-bit performance and high peripheral integration ideal for many 8-bit applications.

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	16K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36012FPV-ND◆	8.38	6.71	5.66
											48-QFN	DF36012FTV-ND◆	8.38	6.71	5.66
											48-LQFP	DF36012FXV-ND◆	8.38	6.71	5.66
											48-LQFP	DF36012FYV-ND◆	8.38	6.71	5.66
											64-LQFP	DF36012GFPV-ND◆	8.64	6.92	5.84
										-20°C ~ 75°C	64-LQFP	HD64F36012GFP-ND	8.64	6.92	5.84
										-40°C ~ 85°C	64-LQFP	HD64F36012GFPJ-ND	9.70	7.76	6.55
										-20°C ~ 75°C	48-QFN	DF36012GFTV-ND◆	8.64	6.92	5.84
										-20°C ~ 75°C	48-LQFP	DF36012GFXV-ND◆	8.64	6.92	5.84
										-20°C ~ 75°C	48-LQFP	DF36012GFYV-ND◆	8.64	6.92	5.84
Flash	32K	—	2K	4-ch. 10-bit	—	2 USART	1/1/—	34	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36014FPV-ND◆	8.64	6.92	5.84
										-20°C ~ 75°C	64-LQFP	DF36014GFPV-ND◆	8.88	7.11	6.00
										-20°C ~ 75°C	48-QFP	DF36014GFYV-ND◆	8.88	7.11	6.00
										-40°C ~ 85°C	64-LQFP	HD64F36014FPJE-ND	8.86	7.98	7.08
										-40°C ~ 85°C	64-LQFP	DF36014FPJV-ND◆	9.82	7.86	6.63
										-40°C ~ 85°C	64-LQFP	DF36014FPWV-ND◆	8.60	7.73	6.85
										-20°C ~ 75°C	64-LQFP	HD64F36014GFP-ND	8.88	7.11	6.00
										-20°C ~ 75°C	48-QFN	DF36014GFTV-ND◆	8.88	7.11	6.00
										-20°C ~ 75°C	48-LQFP	DF36014GFXV-ND◆	8.88	7.11	6.00
										-20°C ~ 75°C	48-QFN	DF36014FTV-ND◆	8.64	6.92	5.84
										-20°C ~ 75°C	48-LQFP	DF36014FYV-ND◆	8.64	6.92	5.84
												DF36014FXV-ND◆	8.64	6.92	5.84
Flash	16K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36022FPV-ND◆	8.64	6.92	5.84
											48-QFN	DF36022FTV-ND◆	8.64	6.92	5.84
											48-LQFP	DF36022FXV-ND◆	8.64	6.92	5.84
											48-LQFP	DF36022FYV-ND◆	8.64	6.92	5.84
											64-LQFP	DF36022GFPV-ND◆	8.88	7.11	6.00
											48-QFN	DF36022GFT -ND◆	8.88	7.11	6.00
											48-LQFP	DF36022GFYV-ND◆	8.88	7.11	6.00
Flash	32K	—	2K	4-ch. 10-bit	—	3 USART	1/1/—	34	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36024FPV-ND◆	8.88	7.11	6.00
											48-QFN	DF36024FTV-ND◆	8.88	7.11	6.00
											48-LQFP	DF36024FYV-ND◆	8.88	7.11	6.00
											48-LQFP	DF36024FXV-ND◆	8.88	7.11	6.00
											64-LQFP	DF36024GFPV-ND◆	9.14	7.32	6.17
											48-QFN	DF36024GFTV-ND◆	9.14	7.32	6.17
											48-LQFP	DF36024GFXV-ND◆	9.14	7.32	6.17
											48-LQFP	DF36024GFYV-ND◆	9.14	7.32	6.17
Flash	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36034FZV-ND◆	9.34	8.39	7.44
											64-LQFP	DF36034GFZV-ND◆	9.55	8.58	7.61
											64-QFP	DF36034GHV-ND◆	9.55	8.58	7.61
											64-QFP	DF36034HV-ND◆	9.34	8.39	7.44
Flash	56K	—	3K	8-ch. 10-bit	—	1 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36037FZV-ND◆	9.75	8.76	7.77
											64-LQFP	DF36037GFZV-ND◆	9.97	8.96	7.95
											64-QFP	DF36037GHV-ND◆	9.97	8.96	7.95
											64-QFP	DF36037HV-ND◆	9.75	8.76	7.77
Flash	96K	—	4K	8-ch. 10-bit	—	3 USART, 1 I²C	2/3/—	67	20MHz/3 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF36049GHV-ND◆	9.73	8.76	7.77
											80-QFP	DF36049HV-ND◆	9.53	8.58	7.61
											80-QFP	HD64F36049H-ND	9.53	8.58	7.61
Flash	32K	—	2K	8-ch. 10-bit	—	2 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36054FZV-ND◆	9.55	8.58	7.61
											64-LQFP	DF36054GFZV-ND◆	9.75	8.76	7.77
											64-QFP	DF36054GHV-ND◆	9.75	8.76	7.77
											64-QFP	DF36054HV-ND◆	9.55	8.58	7.61
Flash	56K	—	3K	8-ch. 10-bit	—	2 USART, 1 SSU*, 1 CAN	2/2/—	53	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36057FZV-ND◆	9.97	8.96	7.95
											64-LQFP	DF36057GFZV-ND◆	10.17	9.14	8.10
											64-QFP	DF36057GHV-ND◆	10.17	9.14	8.10
											64-QFP	DF36057HV-ND◆	9.97	8.96	7.95
Flash	32K	—	2K	8-ch. 10-bit	—	2 USART, 1 I²C	2/2/—	53	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36064GFPV-ND◆	5.29	4.76	4.22
											64-QFP	DF36064GHV-ND◆	6.34	5.08	4.28
Flash	32K	—	4K	8-ch. 10-bit	—	2 USART, 1 I²C	2/2/—	55	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36074GFZV-ND◆	5.66	5.09	4.51
										-20°C ~ 75°C	64-QFP	DF36074GHV-ND◆	5.95	5.34	4.74
										-40°C ~ 85°C	64-QFP	DF36074GHWV-ND◆	7.92	6.34	5.35
Flash	56K	—	4K	8-ch. 10-bit	—	2 USART, 1 I²C	2/2/—	55	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36077GFZV-ND◆	7.62	6.10	5.15
											64-QFP	DF36077GHV-ND◆	7.62	6.10	5.15
Flash	128K	—	6K	8-ch. 10-bit	1-ch. 14-bit	2 USART, 1 I²C	2/2/—	55	20MHz/3.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36079GFZV-ND◆	9.68	7.75	6.54
Flash	56K	—	4K	8-ch. 10-bit	—	2 USART, 1 I²C	2/2/—	53	18MHz/3 ~ 3.6V	-20°C ~ 75°C	64-QFP	DF36087FPV-ND◆	8.66	7.80	6.92
											64-QFP	DF36087HV-ND◆	8.68	7.80	6.92
Flash	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I²C	3/1/—	39	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36094GFZV-ND◆	9.66	7.73	6.53
Flash	128K	—	5K	16-ch. 10-bit	—	3 USART, 1 I²C	2/3/—	87	20MHz/3 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF36109FV-ND◆	10.60	9.53	8.45
											100-QFP	DF36109GFV-ND◆	10.82	9.72	8.62
											100-LQFP	DF36109GHV-ND◆	10.82	9.72	8.62
											100-LQFP	DF36109HV-ND◆	10.60	9.53	8.45
Flash	32K	—	2K	8-ch. 10-bit	—	I²C, 2 USART	2/1/—	29	16MHz/4.0 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3664FPV-ND◆	9.50	7.60	6.42
Flash	8K	—	2K	4-ch. 10-bit	—	1 USART	1/1/—	30	16MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3670FPV-ND◆	5.42	4.34	3.38
											48-LQFP	HD64F3670FXV-ND◆	5.42	4.34	3.38
											48-LQFP	HD64F3670FYV-ND◆	5.42	4.34	3.38
Flash	16K	—	2K	4-ch. 10-bit	—	1 USART	1/1/—	30	16MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3672FPV-ND◆	5.06	4.05	3.42
											48-LQFP	HD64F3672FXV-ND◆	5.06	4.05	3.42
											48-LQFP	HD64F3672FYV-ND◆	5.06	4.05	3.42
Flash	32K	—	4K	8-ch. 10-bit	—	2 USART, 1 I²C	2/2/—	53	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3684FPV-ND◆	9.90	7.92	6.69
											64-LQFP	HD64F3684GFPV-ND◆	8.46	7.62	6.76
											64-QFP	HD64F3684GHV-ND◆	8.48	7.62	6.76
											64-QFP	HD64F3684HV-ND◆	9.90	7.92	6.69

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

Microcontrollers

H8 Family H8 Tiny Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	1	Price Each 25	100
Flash	56K	500.0	4K	8-ch. 10-bit	—	2 USART, 1 I^{2}C	2/2/—	51	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DN3687GFPV-ND◆	9.97	8.96	7.95
Flash	56K	—	4K	8-ch. 10-bit	—	2 USART, 1 I$_2$C	2/2/—	53	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3687FPV-ND◆	8.66	7.80	6.92
											64-LQFP	HD64F3687GFPV-ND◆	8.88	8.00	7.09
											64-QFP	HD64F3687GHV-ND◆	8.90	8.00	7.09
											64-QFP	HD64F3687H-ND	8.66	7.80	6.92
											64-QFP	HD64F3687HV-ND◆	8.68	7.80	6.92
Flash	8K	—	1.5K	4-ch. 10-bit	—	1 USART	1/1/—	22	12MHz/3 ~ 5.5V	-20°C ~ 75°C	32-QFP	DF36902GFHV-ND◆	5.42	4.34	3.38
											32-SOP	DF36902GTPAFV-ND◆	5.42	4.34	3.38
Flash	8K	—	1.5K	4-ch. 10-bit	—	1 USART, 1 I^{2}C	2/1/—	22	12MHz/3 ~ 5.5V	-20°C ~ 75°C	32-LQFP	DF36912GFHV-ND◆	5.06	4.05	3.42
											32-SOP	DF36912GTPAFV-ND◆	5.06	4.05	3.42
Flash	32K	500.0	2K	8-ch. 10-bit	—	1 USART, 1 I^{2}C	2/1/—	35	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DN3694GFPV-ND◆	8.93	8.03	7.12
Flash	32K	—	2K	8-ch. 10-bit	—	1 USART, 1 I^{2}C	2/1/—	37	20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	HD64F3694FP-ND	9.38	7.51	6.34
											64-LQFP	HD64F3694FPV-ND◆	9.38	7.51	6.34
											48-QFN	HD64F3694FTV-ND◆	9.38	7.51	6.34
											48-LQFP	HD64F3694FXV-ND◆	9.38	7.51	6.34
											48-LQFP	HD64F3694FYV-ND◆	9.38	7.51	6.34
											64-LQFP	HD64F3694GFPV-ND◆	9.66	7.73	6.53
											48-QFN	HD64F3694GFTV-ND◆	9.66	7.73	6.53
											48-LQFP	HD64F3694GFY-ND	9.66	7.73	6.53
											48-QFP	HD64F3694GFYV-ND◆	9.66	7.73	6.53
											48-LQFP	HD64F3694GFXV-ND◆	9.66	7.73	6.53
											64-LQFP	HD64F3694GH-ND	9.66	7.73	6.53
											64-QFP	HD64F3694GHV-ND◆	9.66	7.73	6.53
											64-QFP	HD64F3694HV-ND◆	9.38	7.51	6.34

H8 Super Low Power

H8/300L and H8/300H Super Low Power series of MCUs are designed for optimum power consumption and fit in applications where battery life is critical. A built-in LCD controller is included on large packages (64-100 pins).

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	1	Price Each 25	100
Flash	16K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	4MHz/2.2 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF38002FP4V-ND◆	8.27	7.43	6.59
									4MHz/2.2 ~ 3.6V	-20°C ~ 75°C	64-QFP	DF38002H4V-ND◆	9.86	7.89	6.66
									10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	64-QFP	DF38002H10WV-ND◆	9.08	8.16	7.24
									10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-QFP	DF38002H10V-ND◆	9.86	7.89	6.66
Flash	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	4MHz/2.2 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF38004FP4V-ND◆	8.68	7.80	6.92
											64-QFP	DF 38004H4V-ND◆	8.68	7.80	6.92
Flash	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF38004FP10V-ND◆	8.66	7.80	6.92
											64-QFP	DF38004H10V-ND◆	8.66	7.80	6.92
											64-LQFP	HD64F38004FP10-ND	10.40	8.32	7.02
Flash	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	50	10MHz/2.7 ~ 3.6V	-40°C ~ 85°C	64-LQFP	DF38004FP10WV-ND◆	9.55	8.58	7.61
											64-QFP	DF38004H10WV-ND◆	9.55	8.58	7.61
Flash	32K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	66	10M Hz/2.7 ~ 3.6V	-40°C ~ 85°C	80-QFP	HD64F38024DV-ND◆	11.44	10.28	9.12
Flash	32K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	66	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-QFP	HD64F38024H-ND	12.46	9.97	8.42
										-40°C ~ 85°C	80-QFP	HD64F38024RDV-ND◆	10.54	9.47	8.40
										-20°C ~ 75°C	80-QFP	HD64F38024RHV-ND◆	9.57	8.60	7.63
										-20°C ~ 75°C	80-TQFP	HD64F38024RW-ND	11.46	9.17	7.74
										-40°C ~ 85°C	80-TQFP	HD64F38024RWIV-ND◆	10.54	9.47	8.40
										-20°C ~ 75°C	80-TQFP	HD64F38024RWV-ND◆	9.57	8.60	7.63
										-20°C ~ 75°C	80-TQFP	HD64F38024WV-ND◆	11.44	10.28	9.12
Flash	32K	—	1K	8-ch. 10-bit	—	1 USART	3/1/—	66	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-QFP	HD64F38024RFV-ND◆	9.57	8.60	7.63
										-20°C ~ 75°C	85-TFLGA	HD64F38024RLPV-ND◆	9.57	8.60	7.63
Flash	52K	—	2K	8-ch. 10-bit	—	3 USART, IrDA, 1 I$_2$C	2/4/0	63	4.2MHz/1.8 ~ 3.6V	-20°C ~ 75°C	80-QFP	DF38076RH4V-ND◆	11.33	10.20	9.05
										-20°C ~ 75°C	85-TFLGA	DF38076RLP4V-ND◆	12.33	11.10	9.85
										-20°C ~ 75°C	80-TQFP	DF38076RW4V-ND◆	11.36	10.20	9.05
Flash	52K	—	2K	8-ch. 10-bit	—	3 USART, IrDA, 1 I^{2}C	2/4/0	63	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-QFP	DF38076RH10V-ND◆	11.57	10.40	9.22
										-40°C ~ 85°C	80-QFP	DF38076RH10WV-ND◆	12.74	11.45	10.15
										-20°C ~ 75°C	85-TFLGA	DF38076RLP10V-ND◆	12.58	11.30	10.02
										-40°C ~ 85°C	85-TFLGA	DF38076RLP10WV-ND◆	13.84	12.44	11.03
										-20°C ~ 75°C	80-TQFP	DF38076RW10V-ND◆	11.57	10.40	9.22
										-40°C ~ 85°C	80-TQFP	DF38076RW10WV-ND◆	12.74	11.45	10.15
Flash	52K	—	2K	2-ch. 14-bit(ΔΣ) 3-ch. 10-bit (SAR)	—	3 USART, IrDA, 1 I^{2}C	2/4/0	63	4.2MHz/1.8 ~ 3.6V	-20°C ~ 75°C	80-QFP	DF38086RH4V-ND◆	12.66	11.40	10.11
											85-TFLGA	DF38086RLP4V-ND◆	13.66	12.30	10.91
											80-TQFP	DF38086RW4V-ND◆	12.69	11.40	10.11
Flash	52K	—	2K	2-ch. 14-bit(ΔΣ) 3-ch. 10-bit (SAR)	—	3 USART, IrDA, 1 I^{2}C	2/4/0	63	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	80-QFP	DF38086RH10V-ND◆	12.91	11.60	10.29
										-40°C ~ 85°C	80-QFP	DF38086RH10WV-ND◆	14.21	12.77	11.32
										-20°C ~ 75°C	85-TFLGA	DF38086RLP10V-ND◆	13.91	12.50	11.08
										-40°C ~ 85°C	85-TFLGA	DF38086RLP10WV-ND◆	13.76	12.84	11.93
										-20°C ~ 75°C	80-TQFP	DF38086RW10V-ND◆	12.91	11.60	10.29
										-40°C ~ 85°C	80-TQFP	DF38086RW10WV-ND◆	14.21	12.77	11.32
Flash	128K	—	4K	8-ch. 10-bit	—	4 USART, IrDA, 1 I^{2}C	4/4/0	83	10MHz/1.8 ~ 3.6V	-20°C ~ 75°C	100-LQFP	DF38099FP10V-ND◆	14.25	12.80	11.35
Flash	16K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	49	20MHz/2.7 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF38102FPV-ND◆	8.47	7.61	6.75
										-20°C ~ 75°C	64-QFP	DF38102HV-ND◆	8.47	7.61	6.75
										-40°C ~ 85°C	64-QFP	DF38102HWV-ND◆	9.30	8.36	7.41
Flash	32K	—	1K	4-ch. 10-bit	—	1 USART	2/2/0	49	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	DF38104FPWV-ND◆	9.80	8.81	7.81
										-20°C ~ 75°C	64-LQFP	DF38104FPV-ND◆	8.88	8.00	7.09
										-20°C ~ 75°C	64-QFP	DF38104HV-ND◆	8.88	8.00	7.09
										-40°C ~ 85°C	64-QFP	DF38104HWV-ND◆	9.80	8.81	7.81
Flash	16K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	65	20MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-TQFP	DF38122WV-ND◆	9.35	8.40	7.45
Flash	32K	—	1K	8-ch. 10-bit	—	1 USART	4/2/0	65	20MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF38124HV-ND◆	9.80	8.81	7.81
										-40°C ~ 85°C	80-QFP	DF38124HWV-ND◆	10.77	9.68	8.58
										-20°C ~ 75°C	80-TQFP	DF38124WV-ND◆	9.80	8.81	7.81
										-40°C ~ 85°C	80-TQFP	DF38124WWV-ND◆	10.77	9.68	8.58
Flash	32K	—	2K	8-ch. 10-bit	—	2 USART	4/2/0	64	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF38324HV-ND◆	10.17	9.14	8.10
										-40°C ~ 85°C	80-QFP	DF38324HWV-ND◆	11.04	9.92	8.80
										-20°C ~ 75°C	80-TQFP	DF38324WV-ND◆	10.17	9.14	8.10
										-40°C ~ 85°C	80-TQFP	DF38324WWV-ND◆	11.04	9.92	8.80

◆ ***RoHS Compliant*** *SSU = SPI$^{®}$

(Continued)

RENESAS

Microcontrollers

H8 Family H8 Super Low Power *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
Flash	60K	—	2K	8-ch. 10-bit	—	2 USART	4/2/0	64	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF38327HV-ND◆	10.82	9.72	8.62
										-40°C ~ 85°C	80-QFP	DF38327HWV-ND◆	11.91	10.70	9.49
										-20°C ~ 75°C	80-TQFP	DF38327WV-ND◆	10.82	9.72	8.62
										-40°C ~ 85°C	80-TQFP	DF38327WWV-ND◆	11.91	10.70	9.49
Flash	32K	—	2K	12-ch. 10-bit	—	3 USART	4/2/0	84	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF38344HV-ND◆	11.02	9.90	8.78
										-40°C ~ 85°C	100-QFP	DF38344HWV-ND◆	12.24	11.00	9.75
										-40°C ~ 85°C	100-TQFP	DF38344WWV-ND◆	12.14	10.91	9.67
										-20°C ~ 75°C	100-TQFP	DF38344XV-ND◆	11.02	9.90	8.78
										-40°C ~ 85°C	100-TQFP	DF38344XWV-ND◆	12.14	10.91	9.67
Flash	60K	—	2K	12-ch. 10-bit	—	3 USART	4/2/0	84	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF38347HV-ND◆	11.65	10.49	9.30
										-40°C ~ 85°C	100-QFP	DF38347HWV-ND◆	12.83	11.52	10.22
										-20°C ~ 75°C	100-TQFP	DF38347WV-ND◆	11.67	10.49	9.30
										-40°C ~ 85°C	100-TQFP	DF38347WWV-ND◆	12.83	11.52	10.22
										-20°C ~ 75°C	100-TQFP	DF38347XV-ND◆	11.67	10.49	9.30
										-40°C ~ 85°C	100-TQFP	DF38347XWV-ND◆	12.83	11.52	10.22
Flash	60K	—	2K	8-ch. 10-bit	—	2 USART	4/2/0	64	16MHz/2.7 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF38427HV-ND◆	11.67	10.49	9.30
Flash	16K	—	1K	6-ch. 10-bit	—	1 USART, 1 SSU*, IrDA, 1 I^{2}C	3/2/0	19	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	32-QFN	DF38602RFT10V-ND◆	9.86	7.89	6.66
Flash	16K	—	1K	6-ch. 10-bit	—	1 USART, 1 SSU*, IrDA, 1 I^{2}C	3/2/0	19	4.2MHz/1.8 ~ 3.6V	-20°C ~ 75°C	32-QFN	DF38602RFT4V-ND◆	9.86	7.89	6.66

H8/300 Series

H8/300H and H8/300L Series of MCUs provide extensive support of customers' system requirements with a high level of peripheral functionality.

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
ROMless	—	—	512	8-ch. 10-bit	—	2 UART	—/5/—	38	16MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	D13002F16V-ND◆	11.72	10.53	9.34
	—	—	512	8-ch. 10-bit	—	2 UART	—/5/—	50	16MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-TQFP	D13003TF16V-ND◆	16.32	15.24	14.15
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	1 Smart Card, 2 SCI	4/3/—	47	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	D13008F25V-ND◆	9.50	7.60	6.42
									25MHz/3 ~ 3.6V		100-QFP	D13008VF25V-ND◆	8.33	7.50	6.65
	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, IrDA, Smart Card	—/3/—	47	25MHz/3 ~ 3.6V	-20°C ~ 75°C	100-QFP	D13008VFBL25V-ND◆	5.10	4.08	3.45
Flash	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card	—/3/—	79	25MHz/3 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF3024F25V-ND◆	12.42	11.16	9.90
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 UART	—/8/—	79	25MHz/3 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF3026XBL25V-ND◆	14.63	13.65	12.68
	384K	—	16K	8-ch. 10-bit	2-ch. 8-bit	3 UART, Smart Card	—/8/—	79	25MHz/3 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF3028X25V-ND◆	16.70	15.59	14.47
	512K	—	16K	8-ch. 10-bit	2-ch. 8-bit	3 UART	—/9/—	79	25MHz/3 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF3029F25V-ND◆	16.58	15.47	14.37
	128K	—	4K	8-ch. 10-bit	—	2 UART, Smart Card	—/5/—	63	18MHz/4.5 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF3039F18V-ND◆	20.34	18.99	17.63
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card	—/5/—	78	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3048BF25V-ND◆	13.78	12.38	10.98
											100-TQFP	DF3048BX25V-ND◆	14.43	12.96	11.50
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 UART	—/5/—	78	25MHz/3 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF3048BVF25V-ND◆	13.78	12.38	10.98
											100-TQFP	HD64F3048VTF8-ND	36.96	34.50	32.04
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART	—/2/—	78	25MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	DF3048BF25WV-ND◆	13.62	12.72	11.81
	512K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card	—/5/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3052BF25V-ND◆	21.09	19.69	18.28
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card	—/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3062BFP25QV-ND◆	9.55	8.58	7.61
	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card	4/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3064BF25V-ND◆	14.83	13.32	11.82
	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	4/3/—	79	20MHz/3 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3067RF20V-ND◆	20.55	19.18	17.81
	384K	—	16K	8-ch. 10-bit	2-ch. 8-bit	3 UART, Smart Card	4/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3068F25V-ND◆	16.70	15.59	14.47
	512K	—	16K	8-ch. 10-bit	2-ch. 8-bit	Smart Card	4/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF3069RF25V-ND◆	16.58	15.47	14.37
	512K	—	16K	8-ch. 10-bit	2-ch. 8-bit	3 UART, Smart Card	4/3/—	79	25MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF3069RX25V-ND◆	17.03	15.89	14.76
	32K	—	1K	8-ch. 10-bit	—	1 UART, 2 SCI	3/1/—	45	5MHz/2.5 ~ 5.5V	-20°C ~ 75°C	64-QFP	HD64F3644DV-ND◆	11.11	9.98	8.85
											64-QFP	HD64F3644HV-ND◆	10.19	9.15	8.12
											64-SDIP	HD64F3644PV-ND◆	12.15	11.34	10.53

H8/300 Tiny Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
Flash	32K	—	2K	8-ch. x 10-bit	—	UART, CAN	3/2/—	53	1 ~ 20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36034FPV-ND◆	10.86	9.75	8.65
	32K	—	2K	8-ch. x 10-bit	—	UART, CAN	3/2/—	53	1 ~ 20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36034GFPV-ND◆	9.55	8.58	7.61
	32K	—	2K	8-ch. x 10-bit	—	UART, CAN	3/2/—	53	1 ~ 20MHz/3 ~ 5.5V	-20°C ~ 75°C	64-LQFP	DF36037FPV-ND◆	11.94	10.73	9.51
	128K	—	6K	8-ch. x 10-bit	—	2 USART, I^{2}C	3/2/—	47	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	64-QFP	DF36079GHV-ND◆ ***NEW!***	9.68	7.75	6.54
	8K	—	1.5K	4-ch. x 10-bit	—	UART	1/1/—	22	2 ~ 12MHz/3 ~ 5.5V	-20°C ~ 75°C	32-LQFP	DF36902GFHSWV-ND◆	4.48	3.59	2.79

◆ ***RoHS Compliant*** *SSU = SPI®

H8S Family

The H8S Family meets the growing demands for system designs requiring the performance of 16-bit microcontrollers with sophisticated peripherals integrated on-chip. The H8S is the leader in memory size capacity with up to 512K on-chip flash. It includes performance speeds as high as 33MHz, extremely low power consumption, and offers a wide selection of peripherals for optimizing system cost, development time, performance, and features.

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100
ROMless	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	20MHz/3 ~ 3.6V	-20°C ~ 75°C	100-QFP	D12312SVF20V-ND◆	9.60	7.68	6.48
									25MHz/3 ~ 3.6V		100-QFP	D12312SVF25V-ND◆	9.60	7.68	6.48
									25MHz/3 ~ 3.6V		100-TQFP	D12312SVTE25V-ND◆	8.60	7.74	6.87
ROMless	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/2.7 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12320VF20V-ND◆	9.60	7.68	6.48
									25MHz/3 ~ 3.6V		128-QFP	D12320VF25V-ND◆	9.60	7.68	6.48
									20MHz/2.7 ~ 3.6V		120-TQFP	D12320VTE20V-ND◆	8.62	7.74	6.87
									25MHz/3 ~ 3.6V		120-TQFP	D12320VTE25V-ND◆	8.62	7.74	6.87
ROMless	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/2.7 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12321VF20V-ND◆	9.60	7.68	6.48
									25MHz/3 ~ 3.6V		128-QFP	D12321VF25V-ND◆	9.60	7.68	6.48
									20MHz/2.7 ~ 3.6V		120-TQFP	D12321VTE20V-ND◆	8.62	7.74	6.87
									25MHz/3 ~ 3.6V		120-TQFP	D12321VTE25V-ND◆	8.62	7.74	6.87
ROMless	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/2.7 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12322RVF20V-ND◆	9.02	8.10	7.19
									25MHz/3 ~ 3.6V		128-QFP	D12322RVF25V-ND◆	8.82	7.92	7.03
									25MHz/3 ~ 3.6V		128-QFP	HD6412322RVFBL25-ND	7.58	6.07	5.12
									20MHz/2.7 ~ 3.6V		120-TQFP	D12322RVTE20V-ND◆	9.62	8.64	7.67
									25MHz/3 ~ 3.6V		120-TQFP	D12322RVTE25V-ND◆	9.62	8.64	7.67
ROMless	—	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12324SVF25V-ND◆	11.00	9.90	8.78
									20MHz/2.7 ~ 3.6V		120-TQFP	D12324SVTE20V-ND◆	11.62	10.44	9.26
									25MHz/3 ~ 3.6V		120-TQFP	D12324SVTE25V-ND◆	11.62	10.44	9.26
ROMless	—	—	8K	12-ch. 10-bit	4-ch. 8-bit	3 USART, Smart Ca rd	2/6/—	118	20MHz/2.7 ~ 3.6V	-20°C ~ 75°C	144-QFP	D12332VFC20V-ND◆	11.87	10.67	9.46
									25MHz/3 ~ 3.6V		144-QFP	D12332VF C25V-ND◆	11.85	10.67	9.46
ROMless	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	13MHz/3 ~ 5.5V	-20°C ~ 75°C	128-QFP	D12352F13V-ND◆	14.01	12.59	11.16
									13MHz/3 ~ 5.5V		120-TQFP	D12352TE13V-ND◆	13.73	12.81	11.90
									20MHz/4.5 ~ 5.5V		120-TQFP	D12352TE20V-ND◆	13.73	12.81	11.90
ROMless	—	—	16K	10-ch. 10-bit	2-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	94	33MHz/3 ~ 3.6V	-20°C ~ 75°C	128-QFP	D12363VF33V-ND◆	11.02	9.90	8.78
											120-TQFP	D12363VTE33V-ND◆	11.62	10.44	9.26
ROMless	—	—	16K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	113	33MHz/3 ~ 3.6V	-20°C ~ 75°C	144-LQFP	D12373RVFQ33V-ND◆	14.03	12.60	11.18
											144-LQFP	D12373VFQ33V-ND◆	13.03	11.70	10.38

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

Microcontrollers

H8S Family *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
ROMless	—	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	D12390F20V-ND◆	9.60	7.68	6.48
											120-TQFP	D12390TE20V-ND◆	8.62	7.74	6.87
ROMless	—	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	D12392F20V-ND◆	9.02	8.10	7.19
											120-TQFP	D12392TE20V-ND◆	9.62	8.64	7.67
ROMless	—	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	D12394F20V-ND◆	11.02	9.90	8.78
											120-TQFP	D12394TE20V-ND◆	11.62	10.44	9.26
ROMless	—	—	8K	12-ch. 10-bit	4-ch. 8-bit	3 USART, IrDA, Smart Card	2/6/—	115	33MHz/3 ~ 3.6V	-20°C ~ 75°C	144-QFP	D12670VFC33V-ND◆	11.14	10.01	8.88
ROMless	—	—	32K	12-ch. 10-bit	4-ch. 8-bit	3 USART, IrDA, Smart Card	2/6/—	115	33MHz/3 ~ 3.6V	-20°C ~ 75°C	144-LQFP	D12674RVFQ33V-ND◆	13.33	12.00	10.64
Flash	64K	—	2K	—	—	1 USART, 2 I^{2}C	3/1/—	82	10MHz/3 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2110BVTE10V-ND◆	14.63	13.14	11.66
Flash	64K	—	2K	6-ch. 10-bit	—	1 USART 2 I^{2}C	3/1/—	122	10MHz/3 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2111BVT10BV-ND◆	13.73	12.81	11.90
Flash	64K	—	3K	6-ch. 10-bit	—	1 USART 2 I^{2}C	3/1/—	122	10MHz/3 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2111BVT10CV-ND◆	14.06	13.12	12.19
Flash	1M	—	8K	8-ch. 10-bit	—	2 USART, IrDA, Smart Card, 2 I^{2}C	2/1/—	119	20MHz/3 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2114RVT20V-ND◆	20.96	19.56	18.17
Flash	128K	—	8K	16-ch. 10-bit	—	1 USART, Smart Card, 3 I^{2}C	2/1/—	125	20MHz/3 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2116VT20V-ND◆	10.60	9.53	8.45
Flash	64K	—	2K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA	3/1/—	66	20MHz/4 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF2132RFA20V-ND◆	13.52	12.62	11.72
									20MHz/4 ~ 5.5V		80-TQFP	DF2132RTF20V-ND◆	14.87	13.88	12.89
									10MHz/3 ~ 5.5V		80-TQFP	DF2132RVTF10V-ND◆	14.87	13.88	12.89
Flash	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA	3/1/—	66	20MHz/4 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF2134AFA20V-ND◆	13.73	12.81	11.90
									20MHz/4 ~ 5.5V		80-TQFP	DF2134ATF20V-ND◆	15.05	14.05	13.04
									10MHz/2.7 ~ 3.6V		80-QFP	DF2134AVFA10V-ND◆	13.73	12.81	11.90
									10MHz/2.7 ~ 3.6V		80-TQFP	DF2134AVTF10V-ND◆	15.05	14.05	13.04
									20MHz/4.0 ~ 5.5V		80-QFP	DF2134BFA20V-ND◆	11.67	10.49	9.30
Flash	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	66	20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF2138AFA20V-ND◆	15.00	14.00	13.00
									20MHz/4.0 ~ 5.5V		80-TQFP	DF2138ATF20V-ND◆	15.60	14.56	13.52
									10MHz/2.7 ~ 3.6V		80-QFP	DF2138AVFA10V-ND◆	15.00	14.00	13.00
									10MHz/2.7 ~ 3.6V		80-TQFP	DF2138AVTF10V-ND◆	15.60	14.56	13.52
Flash	64K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2140BVTE10V-ND◆	14.63	13.14	11.66
Flash	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 UART	3/1/—	82	20MHz/ 2.7 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2144AFA20V-ND◆	14.48	13.51	12.55
									10MHz/2.7 ~ 5.5V		100-TQFP	DF2144AVTE10V-ND◆	16.01	14.94	13.88
									20MHz/ 2.7 ~ 5.5V		100-QFP	DF2144FA20V-ND◆	19.25	17.97	16.68
									10MHz/2.7 ~ 5.5V		100-QFP	DF2144VFA10V-ND◆	19.25	17.97	16.68
Flash	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	82	20MHz/4 - 5.5V	-20°C ~ 75°C	100-QFP	DF2145BFA20V-ND◆	15.30	14.28	13.26
									20MHz/4.5 ~ 5.5V		100-TQFP	DF2145BTE20V-ND◆	15.84	14.79	13.73
									20MHz/4.5 ~ 5.5V		100-TQFP	HD64F2145BTE20-ND	15.84	14.79	13.73
									10MHz/2.7 ~ 3.6V		100-QFP	DF2145BVFA10V-ND◆	15.30	14.28	13.26
									10MHz/2.7 ~ 3.6V		100-TQFP	DF2145BVTE10V-ND◆	15.84	14.79	13.73
									10MHz/2.7 ~ 3.6V		100-QFP	HD64F2145BVFA10-ND	15.30	14.28	13.26
									10MHz/2.7 ~ 3.6V		100-TQFP	HD64F2145BVTE10-ND	15.84	14.79	13.73
Flash	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I$_2$C	4/1/—	82	20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-TQFP	HD64F2148ATE20V-ND◆	18.45	17.22	15.99
									20MHz/4.0 ~ 5.5V	-40°C ~ 85°C	100-TQFP	DF2148ATE20IV-ND◆	18.86	17.60	16.35
									20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2148BFA20V-ND◆	13.50	12.60	11.70
									20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2148BTE20V-ND◆	14.04	13.11	12.17
									20MHz/4.0 ~ 5.5V	-40°C ~ 85°C	100-TQFP	DF2148BFA20IV-ND◆	14.87	13.88	12.89
									20MHz/4.0 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2148BFA20V-ND◆	13.50	12.60	11.70
									10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2148BVTE10V-ND◆	14.04	13.11	12.17
Flash	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 UART, 2 I^{2}C	4/1/—	82	20MHz/3 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2148RFA20V-ND◆	21.53	20.09	18.66
Flash	64K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	122	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2160BVT10V-ND◆	15.32	14.30	13.28
Flash	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 2 I^{2}C	4/1/—	122	10MHz/2.7 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2161BVTE10V-ND◆	16.20	15.12	14.04
Flash	512K	—	40K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 6 I^{2}C, Smart Card	4/1/—	115	33MHz/3 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2166VT33V-ND◆	27.00	25.20	23.40
Flash	384K	—	40K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 6 I^{2}C, Smart Card	4/1/—	115	33MHz/3 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2167VTE33V-ND◆	25.20	23.52	21.84
											144-TQFP	DF2167VT33-ND	28.01	26.14	24.28
Flash	256K	—	40K	8-ch. 10-bit	2-ch. 8-bit	3 USART, IrDA, 6 I^{2}C, Smart Card	4/1/—	115	33MHz/3 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2168VT33V-ND◆	22.52	21.02	19.52
											144-TQFP	HD64F2168VTE33-ND	22.52	21.02	19.52
Flash	256K	—	32K	—	—	USB	2/—/—	76	33MHz/3.0 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2170BVTE33V-ND◆ ***NEW!***	18.00	16.80	15.60
Flash	1M	—	6K	8-ch. 10-bit	—	2 USART, IrDA, Smart Card, 2 I^{2}C	4/4/—	119	20MHz/3 ~ 3.6V	-20°C ~ 75°C	144-TQFP	DF2189RVT20V-ND◆	23.81	22.22	20.64
Flash	64K	—	8K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	37	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF2211FP24V-ND◆	11.65	10.49	9.30
											64-LQFP	DF2211UFP24V-N D◆	11.65	10.49	9.30
											64-LQFP	HD64F2211UFP24-ND	11.67	10.49	9.30
Flash	128K	—	12K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	37	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	64-LQFP	DF2212FP24V-ND◆	12.48	11.24	9.97
											64-LQFP	DF2212UFP24V-ND◆	12.48	11.24	9.97
											64-LQFP	HD64F2212FP24-ND	12.48	11.24	9.97
											64-LQFP	HD64F2212UFP24-ND	12.48	11.24	9.97
Flash	128K	—	12K	—	1-ch. 8-bit	3 USART	—/3/—	81	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-TFBGA	DF2214BQ16V-ND◆	15.30	14.28	13.26
Flash	256K	—	20K	6-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/3/—	75	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-LFBGA	DF2215RBR24V-ND◆	15.41	14.38	13.36
											120-TQFP	DF2215RTE24V-ND◆	13.80	12.88	11.96
											112-LFBGA	DF2215RUBR24V-ND◆	15.41	14.38	13.36
											120-TQFP	DF2215RUTE24V-ND◆	13.80	12.88	11.96
Flash	256K	—	16K	6-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/3/—	75	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-LFBGA	DF2215BR16V-ND◆	21.00	19.60	18.20
											120-TQFP	DF2215TE16V-ND◆	19.01	17.74	16.48
											112-LFBGA	DF2215UBR16V-ND◆	21.00	19.60	18.20
											120-TQFP	DF2215UTE16V-ND◆	19.01	17.74	16.48
											120-TQFP	HD64F2215TE16-ND	21.11	19.01	16.86
											120-TQFP	HD64F2215UTE16-ND	21.11	19.01	16.86
Flash	128K	—	12K	6-ch. 10-bit	—	2 USART, Smart Card	—/3/—	69	24MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-LFBGA	DF2218BR24V-ND◆	14.60	13.63	12.65
											100-TQFP	DF2218TF24V-ND◆	14.36	12.90	11.44
											100-TQFP	DF2218UTF24V-ND◆	14.36	12.90	11.44
											100-TQFP	HD64F2218TF24-ND	15.99	14.40	12.77
											112-LFBGA	DF2218UBR24V-ND◆	14.60	13.63	12.65
											100-TQFP	HD64F2218UTF24-ND	15.99	14.40	12.77
Flash	256K	—	32K	10-ch. 10-bit	2-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	94	34MHz/3 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2362VTE34V-ND◆	14.01	12.59	11.16
Flash	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	13.5MHz/2.7 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2238BF13V-ND◆	18.11	16.90	15.70
									13.5MHz/2.7 ~ 5.5V		100-QFP	DF2238BFA13V-ND◆	18.11	16.90	15.70
									13.5MHz/2.7 ~ 5.5V		100-TQFP	DF2238BTE13V-ND◆	20.00	18.67	17.33
									13.5MHz/2.7 ~ 5.5V		100-TQFP	DF2238BTF13V-ND◆	20.00	18.67	17.33
									13.5MHz/2.7 ~ 3.6V		112-TFBGA	DF2238RBQ13V-ND◆	17.10	15.96	14.82
									6.25MHz/2.2 ~ 3.6V	-20°C ~ 75°C	112-TFBGA	DF2238RBQ6V-ND◆	17.10	15.96	14.82
									6.25MHz/2.2 ~ 3.6V		112-LFBGA	DF2238RBR6V-ND◆	17.10	15.96	14.82
									6.25MHz/2.2 ~ 3.6V		100-TQFP	DF2238RTE6V-ND◆	15.84	14.79	13.73
									6.25MHz/2.2 ~ 3.6V		100-TQFP	DF2238RTF6V-ND◆	15.84	14.79	13.73
									13.5MHz/2.7 ~ 3.6V		112-BGA	DF2238RBR13V-ND◆	17.10	15.96	14.82
									6.25MHz/2.2 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2238RFA6V-ND◆	15.30	14.28	13.26
									13.5MHz/2.7 ~ 3.6V		100-QFP	DF2238RFA13V-ND◆	15.30	14.28	13.26
									13.5MHz/2.7 ~ 3.6V		100-TQFP	DF2238RTE13V-ND◆	15.84	14.79	13.73
									13.5MHz/2.7 ~ 3.6V		100-TQFP	DF2238RTF13V-ND◆	15.84	14.79	13.73

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

RENESAS

Microcontrollers

H8S Family *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	112-TFBGA	DF2239BQ16V-ND◆	19.80	18.48	17.16
									20MHz/3 ~ 3.6V		112-TFBGA	DF2239BQ20V-ND◆	19.80	18.48	17.16
									16MHz/2.7 ~ 3.6V		100-QFP	DF2239FA16V-ND◆	18.00	16.80	15.60
									20MHz/3 ~ 3.6V		100-QFP	DF2239FA20V-ND◆	18.00	16.80	15.60
									20MHz/3 ~ 3.6V		100-QFP	DF2239FA20IV-ND◆	19.80	18.48	17.16
									16MHz/2.7 ~ 3.6V	-20°C ~ 75°C	100-QFP	HD64F2239FA16-ND	18.00	16.80	15.60
									20MHz/3 ~ 3.6V		100-QFP	HD64F2239FA20-ND	18.00	16.80	15.60
									16MHz/2.7 ~ 3.6V		100-QFP	DF2239TE16V-ND◆	18.54	17.31	16.07
									20MHz/3 ~ 3.6V		100-QFP	DF2239TE20V-ND◆	18.54	17.31	16.07
									16MHz/2.7 ~ 3.6V		100-TQFP	DF2239TF16V-ND◆	18.54	17.31	16.07
									20MHz/3 ~ 3.6V		100-TQFP	DF2239TF20V-ND◆	18.54	17.31	16.07
Flash	256K	—	16K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card, 2 I^{2}C	4/6/—	82	13.5MHz/4 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2258FA13V-ND◆	19.25	17.97	16.68
Flash	128K	—	4K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	13.5MHz/3 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2265FA13V-ND◆	14.40	13.44	12.48
									20.5MHz/4 ~ 5.5V		100-QFP	DF2265FA20V-ND◆	14.40	13.44	12.48
									13.5MHz/3 ~ 5.5V		100-TQFP	DF2265TE13V-ND◆	15.00	14.00	13.00
Flash	128K	—	8K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	13.5MHz/3 ~ 5.5V	-20°C - 75°C	100-QFP	DF2266FA13V-ND◆	15.00	14.00	13.00
									13.5MHz/3 ~ 5.5V		100-TQFP	DF2266TF13V-ND◆	15.60	14.56	13.52
									20.5MHz/4 ~ 5.5V		100-TQFP	DF2266TF20V-ND◆	15.60	14.56	13.52
Flash	256K	—	16K	10-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C	4/3/—	78	13.5MHz/3 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2268FA13V-ND◆	17.00	15.87	14.73
									20.5MHz/4 ~ 5.5V		100-QFP	DF2268FA20V-ND◆	17.00	15.87	14.73
									13.5MHz/3 ~ 5.5V		100-TQFP	DF2268TE13V-ND◆	17.60	16.43	15.25
									20.5MHz/4 ~ 5.5V		100-TQFP	DF2268TE20V-ND◆	17.60	16.43	15.25
									20.5MHz/4 ~ 5.5V		100-TQFP	DF2268TF20V-ND◆	17.60	16.43	15.25
Flash	384K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2314VTE25V-ND◆	18.35	17.13	15.90
Flash	384K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2315VF25V-ND◆	18.00	16.80	15.60
											100-TQFP	DF2315VTE25V-ND◆	18.54	17.31	16.07
Flash	128K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3 ~ 3.6V	-20°C ~ 75°C	100-TQFP	DF2317VTE25V-ND◆	14.48	13.51	12.55
											100-TQFP	DF2317VTEBL25V-ND◆	9.98	7.99	6.74
											100-TQFP	DF2317VTF25V-ND◆	14.48	13.51	12.55
Flash	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2318VF25V-ND◆	15.30	14.28	13.26
											100-TQFP	HD64F2318VTE25-ND	15.84	14.79	13.73
											100-TQFP	DF2318VTE25V-ND◆	15.84	14.79	13.73
Flash	512K	—	16K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3 ~ 3.6V	-20°C ~ 75°C	113-TFLGA	DF2319CVLP25V-ND◆	22.86	21.34	19.82
											100-TQFP	DF2319CVTE25V-ND◆	17.64	16.47	15.29
Flash	512K	—	8K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	25MHz/3 ~ 3.6V	-20°C ~ 75°C	100-QFP	DF2319EVF25V-ND◆	24.00	22.40	20.80
											100-TQFP	DF2319EVTE25V-ND◆	26.48	24.71	22.95
											100-QFP	HD64F2319EVF25-ND	24.00	22.40	20.80
											TFP-100B	HD64F2319EVTE25-ND	26.48	24.71	22.95
											100-QFP	DF2319VF25V-ND◆	20.76	19.38	18.00
											100-TQFP	DF2319VTE25V-ND◆	23.04	21.51	19.97
											100-QFP	HD64F2319VF25-ND	20.76	19.38	18.00
											100-TQFP	HD64F2319VTE25-ND	23.04	21.51	19.97
Flash	512K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2326VF25V-ND◆	21.90	20.44	18.98
											120-TQFP	DF2326VTE25V-ND◆	24.00	22.40	20.80
Flash	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2328BVF25V-ND◆	16.20	15.12	14.04
											120-TQFP	DF2328BVTE25V-ND◆	16.74	15.63	14.51
											128-QFP	DF2328VF25V-ND◆	16.38	15.29	14.20
											120-TQFP	DF2328VTE25V-ND◆	18.11	16.90	15.70
											128-QFP	HD64F2328VF25-ND	16.38	15.29	14.20
											120-TQFP	HD64F2328VTE25-ND	18.11	16.90	15.70
Flash	384K	—	32K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	25MHz/3 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2329BVF25V-ND◆	18.90	17.64	16.38
											120-TQFP	DF2329BVTE25V-ND◆	19.44	18.15	16.85
											128-QFP	HD64F2329BVF25-ND	18.90	17.64	16.38
											120-TQFP	HD64F2329BVTE25-ND	19.44	18.15	16.85
											128-QFP	DF2329EVF25V-ND◆	27.24	25.43	23.61
										-20°C ~ 75°C	120-TQFP	DF2329EVTE25V-ND◆	29.72	27.74	25.76
										-20°C ~ 75°C	120-TQFP	HD64F2329EVTE25-ND	29.72	27.74	25.76
										-20°C ~ 75°C	128-QFP	HD64F2329VF25-ND	27.24	25.43	23.61
										-40°C ~ 85°C	128-QFP	DF2329VF25IV-ND◆	29.72	27.74	25.76
										-20°C ~ 75°C	128-QFP	DF2329VF25V-ND◆	27.24	25.43	23.61
Flash	256K	—	8K	12-ch. 10-bit	4-ch. 8-bit	3 USART, Smart Card	2/6/—	118	25MHz/3 ~ 3.6V	-20°C ~ 75°C	144-QFP	DF2338VFC25V-ND◆	18.66	17.42	16.18
Flash	384K	—	32K	12-ch. 10-bit	4-ch. 8-bit	3 USART, Smart Card	2/6/—	118	25MHz/3 ~ 3.6V	-20°C ~ 75°C	144-QFP	DF2339EVFC25V-ND◆	28.20	26.32	24.44
											144-QFP	DF2339VFC25V-ND◆	28.20	26.32	24.44
Flash	128K	—	4K	8-ch. 10-bit	2-ch. 8-bit	2 USART, Smart Card	2/6/—	79	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-TQFP	DF2345TE20V-ND◆	18.86	17.60	16.35
Flash	128K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	120-TQFP	DF2357TE20V-ND◆	25.34	23.65	21.96
									13MHz/3 ~ 5.5V		128-QFP	DF2357VF13V-ND◆	23.04	21.51	19.97
									13MHz/3 ~ 5.5V		120-TQFP	DF2357VTE13V-ND◆	25.34	23.65	21.96
Flash	256K	—	16K	10-ch. 10-bit	2-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	94	34MHz/3 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2360VTE34V-ND◆	13.14	11.81	10.47
Flash	256K	—	24K	10-ch. 10-bit	2-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	94	34MHz/3 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2361VTE34V-ND◆	13.58	12.20	10.82
Flash	384K	—	32K	10-ch. 10-bit	2-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	94	34MHz/3 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2364VTE34V-ND◆	14.85	13.34	11.83
Flash	384K	—	30K	10-ch. 10-bit	2-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	94	34MHz/3 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2366VF33V-ND◆	16.97	15.84	14.71
												DF2366VTE33V-ND◆	17.34	16.19	15.03
Flash	384K	—	24K	10-ch. 10-bit	2-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	94	33MHz/3 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2367VF33V-ND◆	16.97	15.84	14.71
											120-TQFP	DF2367VTE33V-ND◆	17.34	16.19	15.03
Flash	512K	—	32K	10-ch. 10-bit	2-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	94	34MHz/3 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2368VTE34V-ND◆	14.66	13.68	12.71
Flash	256K	—	16K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	113	34MHz/3 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2370RVFQ34V-ND◆	13.91	12.98	12.06
											145-TFLGA	DF2370RVLP34V-ND◆	16.76	15.64	14.53
											144-LQFP	DF2370VFQ34V-ND◆	14.63	13.14	11.66
											145-TFLGA	DF2370VLP34V-ND◆	16.01	14.94	13.88
Flash	256K	—	24K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	113	34MHz/3 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2371RVFQ34V-ND◆	14.28	13.33	12.38
Flash	256K	—	24K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	113	34MHz/3 ~ 3.6V	-20°C ~ 75°C	145-TFLGA	DF2371RVLP34V-ND◆	17.15	16.01	14.86
											144-LQFP	DF2371VFQ34V-ND◆	13.52	12.62	11.72
											145-TFLGA	DF2371VLP34V-ND◆	16.38	15.29	14.20
Flash	256K	—	32K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	113	34MHz/3 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2372RVFQ34V-ND◆	14.66	13.68	12.71
											145-TFLGA	DF2372RVLP34V-ND◆	17.52	16.36	15.19
											144-LQFP	DF2372VFQ34V-ND◆	13.91	12.98	12.06
											145-TFLGA	DF2372VLP34V-ND◆	16.76	15.64	14.53
Flash	384K	—	32K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	113	34MHz/3 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2374RVFQ34V-ND◆	15.42	14.40	13.37
											145-TFLGA	DF2374RVLP34V-ND◆	18.29	17.07	15.85
											144-LQFP	DF2374VFQ34V-ND◆	14.67	13.70	12.72
											145-TFLGA	DF2374VLP34V-ND◆	19.25	17.97	16.68

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

Microcontrollers

H8S Family *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	384K	—	30K	16-ch. 10-bit	4-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	97	33MHz/3 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2376VFQ33V-ND◆	17.34	16.19	15.03
Flash	384K	—	24K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	113	33MHz/3 ~ 3.6V	-20°C ~ 75°C -40°C ~ 85°C -20°C ~ 75°C -40°C ~ 85°C -20°C ~ 75°C	144-LQFP 144-LQFP 144-LQFP 144-LQFP 144-LQFP	DF2377RVFQ33V-ND◆ DF2377RVFQ33WV-ND◆ HD64F2377RVFQ33-ND HD64F2377RVFQ33W-ND DF2377VFQ33V-ND◆	17.90 18.80 17.90 18.80 17.34	16.71 17.55 16.71 17.55 16.19	15.51 16.29 15.51 16.29 15.03
Flash	512K	—	32K	16-ch. 10-bit	6-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	2/6/—	113	34MHz/3 ~ 3.6V 35MHz/3 ~ 3.6V 35MHz/3 ~ 3.6V 35MHz/3 ~ 3.6V 34MHz/3 ~ 3.6V 34MHz/3 ~ 3.6V	-20°C ~ 75°C	144-LQFP 144-LQFP 144-LQFP 145-TFLGA 144-LQFP 144-TFLGA	DF2378AVFQ34V-ND◆ DF2378BVFQ35V-ND◆ DF2378BVFQ35WV-ND◆ DF2378BVLP35V-ND◆ DF2378RVFQ34V-ND◆ DF2378RVLP34V-ND◆	16.20 15.42 16.97 18.29 16.20 20.96	15.12 14.40 15.84 17.07 15.12 19.56	14.04 13.37 14.71 15.85 14.04 18.17
Flash	256K	—	8K	8-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card	2/6/—	95	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	120-TQFP 128-QFP 128-QFP	DF2398TE20V-ND◆ DF2398F20TV-ND◆ DF2398F20V-ND◆	16.74 17.82 16.20	15.63 16.64 15.12	14.51 15.45 14.04
Flash	256K	—	16K	16-ch. 10-bit	—	5 USART, 4 I^{2}C	4/5/—	110	20MHz/3 ~ 3.6V	-20°C ~ 75°C	128-QFP	DF2437FV-ND◆	16.20	15.12	14.04
Flash	384K	—	32K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I^{2}C	4/6/—	120	26MHz/3 ~ 5.5V	-40°C ~ 75°C -20°C ~ 75°C	176-LFBGA 144-QFP	DF2505BR26DV-ND◆ DF2505FC26V-ND◆	25.01 22.86	23.34 21.34	21.68 19.82
Flash	512K	—	32K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I^{2}C	4/6/—	120	26MHz/3 ~ 5.5V	-40°C ~ 75°C	176-LFBGA	DF2506BR26DV-ND◆	27.00	25.20	23.40
Flash	384K	—	24K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I^{2}C	4/6/—	120	26MHz/3 ~ 5.5V	-40°C ~ 75°C	176-LFBGA 144-QFP	DF2551BR26DV-ND◆ DF2551FC26DV-ND◆	26.00 24.00	24.27 22.40	22.53 20.80
Flash	512K	—	32K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I^{2}C	4/6/—	120	26MHz/3 ~ 5.5V	-40°C ~ 75°C	176-LFBGA 144-QFP	DF2552BR26DV-ND◆ DF2552FC26DV-ND◆	27.90 26.00	26.04 24.27	24.18 22.53
Flash	512K	—	32K	16-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card, 2 I^{2}C, 1 CAN	4/6/—	120	20MHz/3 ~ 5.5V	-40°C ~ 75°C	144-QFP	DF2556FC20DV-ND◆	26.00	24.27	22.53
Flash	128K	—	4K	12-ch. 10-bit	—	3 USART, Smart Card, 1 CAN	—/6/—	56	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	80-QFP	DF2612FA20V-ND◆	16.01	14.94	13.88
Flash	256K	—	12K	16-ch. 10-bit	—	3 USART, Smart Card, 1 CAN	—/6/—	70	20MHz/4.5 ~ 5.5V	-40°C ~ 85°C -20°C ~ 75°C	100-QFP 100-QFP	DF2623FA20JV-ND◆ DF2623FA20V-ND◆	28.97 24.00	27.04 22.40	25.11 20.80
Flash	128K	—	8K	16-ch. 10-bit	—	2 USART, 2 SSU*, Smart Card, 1 CAN	4/6/—	76	24MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	DF2628FA24V-ND◆	16.01	14.94	13.88
Flash	384K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP 128-QFP	DF2630F20V-ND◆ DF2630UF20JV-ND◆	36.20 37.52	33.79 35.02	31.37 32.52
Flash	384K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2630WF20V-ND◆	38.48	35.91	33.35
Flash	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	4/6/—	89	16MHz/3 ~ 3.6V 25MHz/3 ~ 3.6V 25MHz/3 ~ 3.6V	-20°C ~ 75°C	128-QFP 128-QFP 120-TQFP	DF2633F16V-ND◆ DF2633F25V-ND◆ DF2633TE25V-ND◆	21.90 21.90 24.00	20.44 20.44 22.40	18.98 18.98 20.80
Flash	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	4/6/—	89	28MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP 120-TQFP 120-TQFP	DF2633RF28V-ND◆ DF2633RTE28V-ND◆ HD64F2633RTE28-ND	19.01 19.61 19.61	17.74 18.30 18.30	16.48 17.00 17.00
Flash	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	4/6/—	89	16MHz/3 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF2633TE16V-ND◆	23.81	22.22	20.64
Flash	128K	—	4K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP 128-QFP	DF2636F20V-ND◆ DF2636UF20V-ND◆	22.28 23.63	20.79 22.05	19.31 20.48
Flash	256K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP 128-QFP 128-QFP	DF2638F20V-ND◆ HD64F2638F20J-ND DF2638UF20V-ND◆	25.14 30.66 26.28	23.47 28.62 24.53	21.79 26.58 22.78
Flash	256K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C -40°C ~ 85°C	128-QFP 128-QFP	DF2638WF20V-ND◆ DF2638WF20JV-ND◆	27.42 33.29	25.60 31.07	23.77 28.85
Flash	256K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2639UF20V-ND◆	27.80	25.95	24.09
Flash	256K	—	16K	12-ch. 10-bit	2-ch. 8-bit	3 USART, Smart Card, 2 I^{2}C, 2 CAN	—/6/—	84	20MHz/4.5 ~ 5.5V	-20°C ~ 75°C	128-QFP	DF2639WF20V-ND◆	28.76	26.84	24.93
Flash	256K	—	16K	16-ch. 10-bit	4-ch. 8-bit	5 USART, IrDA, Smart Card, 2 I^{2}C	4/6/—	111	16MHz/3 ~ 3.6V 25MHz/3 ~ 3.6V	-20°C ~ 75°C	144-QFP 144-QFP	DF2643FC16V-ND◆ DF2643FC25V-ND◆	23.04 23.04	21.51 21.51	19.97 19.97
Flash	128K	—	4K	12-ch. 10-bit	—	2 USART, Smart Card, 1 CAN	—/6/—	108	20MHz/4.5 ~ 5.5V	-40°C ~ 85°C -20°C ~ 75°C	144-QFP 144-QFP	DF2646RFC20JV-ND◆ DF2646RFC20V-ND◆	30.29 25.14	28.27 23.47	26.25 21.79
Flash	128K	—	4K	12-ch. 10-bit	—	3 USART, Smart Card, 1 CAN	—/6/—	108	20MHz/4.5 ~ 5.5V	-40°C ~ 85°C -20°C ~ 75°C	144-QFP 144-QFP	DF2648RFC20JV-ND◆ DF2648RFC20V-ND◆	31.62 26.28	29.52 24.53	27.41 22.78
Flash	384K	—	16K	12-ch. 10-bit	4-ch. 8-bit	3 USART, IrDA, Smart Card	2/6/—	115	33MHz/3 ~ 3.6V	-20°C ~ 75°C	144-LQFP	DF2667VFQ33V-ND◆	18.66	17.42	16.18
Flash	256K	—	8K	12-ch. 10-bit	4-ch. 8-bit	3 USART, IrDA, Smart Card	2/6/—	115	33MHz/3 ~ 3.6V	-20°C ~ 75°C	144-QFP	DF2676VFC33V-ND◆	20.00	18.67	17.33

H8SX Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	256K	—	12K	16-ch. 10-bit	—	2 USART, 3 SSU*, Smart Card	—/12/—	99	48MHz/4.5 ~ 5.5V	-20°C ~ 85°C	120-LQFP	DF61582N48FPV-ND◆	22.86	21.34	19.82
ROMless	—	—	40K	8-ch. 10-bit	2-ch. 8-bit	5 USART, Smart Card	4/6/2	50	50MHz/3.0 ~ 3.6V	-20°C ~ 75°C	120-LQFP	DS61651CN50FPV-ND◆ ***NEW!***	9.57	8.60	7.63
ROMless	—	—	40K	8-ch. 10-bit	2-ch. 8-bit	4 USART, IrDA, Smart Card	4/6/—	90	50MHz/3 ~ 3.6V	-20°C ~ 75°C	120-LQFP	DS61651N50FPV-ND◆	9.69	8.70	7.72
Flash	384K	—	40K	8-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, USB FS, Smart Card, 2 I^{2}C	8/6/—	75	50MHz/3 ~ 3.6V	-20°C ~ 75°C	120-TQFP	R5F61653N50FTV-ND◆	17.15	16.01	14.86
Flash	512K	—	40K	8-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, Smart Card, 2 I^{2}C	8/6/—	84	50MHz/3 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF61654N50FTV-ND◆	18.59	17.35	16.11
Flash	512K	—	24K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card	4/6/—	90	35MHz/3 ~ 3.6V	-20°C ~ 75°C -40°C ~ 85°C	120-TQFP 120-TQFP	DF61656N35FTV-ND◆ DF61656W35FTV-ND◆	17.52 19.28	16.36 17.99	15.19 16.71
Flash	768K	—	24K	8-ch. 10-bit	2-ch. 8-bit	4 USART, Smart Card	4/6/—	90	35MHz/3 ~ 3.6V	-20°C ~ 75°C	120-TQFP	DF61657BN35FTV-ND◆	19.01	17.74	16.48
Flash	384K	—	40K	8-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 2 I^{2}C	8/6/—	101	50MHz/3 ~ 3.6V	-20°C ~ 75°C -40°C ~ 85°C	144-LQFP 144-LQFP	DF61663N50FPV-ND◆ DF61663W50FPV-ND◆	17.52 19.28	16.36 17.99	15.19 16.71
Flash	512K	—	40K	8-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 2 I^{2}C	8/6/—	101	50MHz/3 ~ 3.6V	-40°C ~ 85°C	144-LQFP	DF61664W50FPV-ND◆	20.85	19.46	18.07

◆ ***RoHS Compliant*** *SSU = SPI®

M16C Family

The M16C family offers the industry's broadcast multi-purpose microcontroller platform, with seamless code and pin compatibility – all the way from 8-bit to 32-bit functionality. A robust platform of 16/32-bit CISC microcontrollers with speeds from 16MHz ~ 64MHz, up to 512K on-chip flash memory, high ROM code efficiency, extensive EMI/EMS noise immunity, and very low power consumption. It also features a broad choice of standard on-chip peripheral options and the highest pin-to-pin compatibility (up to 144 pins) in the industry.

M16C Platform Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	64K	—	3K	14-ch. 10-bit	1-ch. 8-bit	2 USART, 1 CAN	4/1/—	37	16MHz/4.2 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M301N2F8TFP#U3-ND◆	14.52	13.56	12.59
Flash	128K	—	10K	8-ch. 10-bit	—	4 USART, 1 I^{2}C	—/5/—	85	16MHz/3 ~ 3.6V	-20°C ~ 85°C	100-LQFP	M30245FCGP#U1-ND◆	15.00	14.00	13.00
Flash	96K	4K	5K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	100-QFP 100-QFP	M30302FAPFP#U3-ND◆ M30302FAPFP#U5-ND◆	6.30 6.00	5.04 4.80	4.26 4.05

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

Microcontrollers

M16C Family M16C Platform Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	96K	4K	5K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30302FAPGP#U3-ND◆	5.88	4.71	3.97
										-20°C ~ 85°C	100-LQFP	M30302FAPGP#U5-ND◆	5.60	4.48	3.78
Flash	128K	4K	5K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30302FCPFP#U3-ND◆	6.52	5.22	4.41
										-20°C ~ 85°C	100-QFP	M30302FCPFP#U5-ND◆	6.20	4.96	4.19
Flash	128K	4K	5K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30302FCPGP#U3-ND◆	6.10	4.88	4.12
										-20°C ~ 85°C	100-LQFP	M30302FCPGP#U5-ND◆	5.80	4.64	3.92
Flash	192K	4K	6K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30302FEPFP#U3-ND◆	6.94	5.56	4.69
										-20°C ~ 85°C	100-QFP	M30302FEPFP#U5-ND◆	6.60	5.28	4.46
Flash	192K	4K	6K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30302FEPGP#U3-ND◆	6.52	5.22	4.41
										-20°C ~ 85°C	100-LQFP	M30302FEPGP#U5-ND◆	6.20	4.96	4.19
ROMless	—	—	6K	18-ch. 10-bit	—	3 USART, 3 I^{2}C	—/6/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30302SPFP#U3-ND◆	6.10	4.88	4.12
										-40°C ~ 85°C	100-LQFP	M30302SPGP#U3-ND◆	4.38	4.09	3.80
										-20°C ~ 85°C	100-LQFP	M30302SPGP#U5-ND◆	5.06	4.05	3.42
Flash	256K	—	8K	—	—	5 USART, 1 I^{2}C	—/11/—	89	16MHz/2 ~ 5.5V	-20°C ~ 70°C	116-LQFP	M306H5FGFP#U0-ND◆	38.10	35.56	33.02
								80			100-QFP	M306H7FGFP#U0-ND◆	19.62	18.32	17.01
Flash	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C, 1 CAN	—/11/—	88	24MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M306NLFHGP#U3-ND◆	21.00	19.60	18.20
Flash	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C, 1 CAN	—/11/—	88	24MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M306NLFJGP#U3-ND◆	23.00	21.47	19.93
Flash	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	7 USART, 3 I^{2}C, 1 CAN	—/11/—	114	24MHz/3 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M306NNFHGP#U3-ND◆	22.01	20.54	19.08
Flash	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	7 USART, 3 I^{2}C, 1 CAN	—/11/—	114	24MHz/3 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M306NNFJGP#U3-ND◆	24.00	22.40	20.80
Flash	128K	—	5K	26-ch. 10-bit	2-ch. 8-bit	4 USART, 3 I^{2}C, 1 CAN	—/11/—	88	20MHz/4.2 ~ 5.5V	-40°C ~ 85°C	100-QFP	M306N5FCTFP#U0-ND◆	24.77	23.12	21.47
Flash	96K	—	24K	—	—	5 USART, 3 I^{2}C	—/5/—	22	15.36MHz/3 ~ 3.6V	-40°C ~ 85°C	64-LQFP	M306S0FAGP#U3-ND◆	15.00	14.00	13.00
										-20°C ~ 85°C	64-LQFP	M306S0FAGP#U5-ND◆	14.28	13.33	12.38
Flash	512K	—	10K	—	2-ch. 8-bit	2 USART, 3 I^{2}C	—/8/—	76	16MHz/4.75 ~ 5.25V	-20°C ~ 85°C	100-QFP	M306V7FJFP#U0-ND◆	31.04	28.97	26.90
Flash	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M3062LFGPFP#U3C-ND◆	15.12	14.12	13.11
		—								-20°C ~ 85°C	100-QFP	M3062LFGPFP#U5C-ND◆	14.40	13.44	12.48
		4K								-40°C ~ 85°C	100-QFP	M3062LFGPFP#U7C-ND◆	15.32	14.30	13.28
		4K								-20°C ~ 85°C	100-QFP	M3062LFGPFP#U9C-ND◆	14.60	13.63	12.65
Flash	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M3062LFGPGP#U3C-ND◆	14.70	13.72	12.74
		—								-20°C ~ 85°C	100-LQFP	M3062LFGPGP#U5C-ND◆	14.00	13.07	12.13
		4K								-40°C ~ 85°C	100-LQFP	M3062LFGPGP#U7C-ND◆	14.90	13.91	12.91
		4K								-20°C ~ 85°C	100-LQFP	M3062LFGPGP#U9C-ND◆	14.21	13.26	12.32
Flash	128K	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART. 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30620FCPFP#U3C-ND◆	14.10	13.16	12.22
		—								-20°C ~ 85°C	100-QFP	M30620FCPFP#U5C-ND◆	14.95	13.43	11.91
		4K								-40°C ~ 85°C	100-QFP	M30620FCPFP#U7C-ND◆	14.30	13.35	12.39
		4K								-20°C ~ 85°C	100-QFP	M30620FCPFP#U9C-ND◆	13.62	12.72	11.81
Flash	128K	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I$_2$C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30620FCPGP#U3C-ND◆	14.18	13.23	12.29
		—								-20°C ~ 85°C	100-LQFP	M30620FCPGP#D5C-ND	14.99	13.50	11.97
		—								-20°C ~ 85°C	100-LQFP	M30620FCPGP#U5C-ND◆	13.50	12.60	11.70
		4K								-40°C ~ 85°C	100-LQFP	M30620FCPGP#U7C-ND◆	14.39	13.43	12.47
		4K								-20°C ~ 85°C	100-LQFP	M30620FCPGP#U9C-ND◆	13.70	12.79	11.87
ROMless	—	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30620SPFP#U3C-ND◆	10.54	9.47	8.40
										-20°C ~ 85°C	100-QFP	M30620SPFP#U5C-ND◆	9.57	8.60	7.63
ROMless	—	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30620SPGP#U3C-ND◆	9.80	8.81	7.81
										-20°C ~ 85°C	100-LQFP	M30620SPGP#U5C-ND◆	8.90	8.00	7.09
Flash	128K	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	71	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30621FCPGP#U3C-ND◆	14.85	13.34	11.83
		—								-20°C ~ 85°C	80-QFP	M30621FCPGP#U5C-ND◆	14.14	12.71	11.27
		4K								-20°C ~ 85°C	80-QFP	M30621FCPGP#U9C-ND◆	14.36	12.90	11.44
Flash	64K	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30622F8PFP#U3C-ND◆	13.76	12.84	11.93
		—								-20°C ~ 85°C	100-QFP	M30622F8PFP#U5C-ND◆	14.54	13.10	11.62
		4K								-40°C ~ 85°C	100-QFP	M30622F8PFP#U7C-ND◆	13.97	13.04	12.11
		4K								-20°C ~ 85°C	100-QFP	M30622F8PFP#U9C-ND◆	14.78	13.31	11.80
Flash	64K	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30622F8PGP#U3C-ND◆	13.88	12.50	11.08
		—								-20°C ~ 85°C	100-LQFP	M30622F8PGP#D5C-ND	13.88	12.50	11.08
		—								-20°C ~ 85°C	100-LQFP	M30622F8PGP#U5C-ND◆	13.21	11.90	10.55
		4K								-40°C ~ 85°C	100-LQFP	M30622F8PGP#U7C-ND◆	14.11	12.71	11.27
ROMless	—	—	3K	10-ch. 10-bit	2-ch. 8-bit	5 USART, 1 I^{2}C	—/11/—	88	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30622SAFP#U5-ND◆	9.86	7.89	6.66
ROMless	—	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30622SPFP#U3C-ND◆	9.30	8.36	7.41
										-20°C ~ 85°C	100-QFP	M30622SPFP#U5C-ND◆	8.47	7.61	6.75
										-40°C ~ 85°C	100 -LQFP	M30622SPGP#U3C-ND◆	8.57	7.70	6.83
										-20°C ~ 85°C	100-LQFP	M30622SPGP#U5C-ND◆	9.34	7.48	6.31
Flash	64K	—	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	71	24MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-QFP	M30623F8PGP#U5C-ND◆	13.88	12.50	11.08
Flash	256K	—	20K	10-ch. 10-bit	2-ch. 8-bit	5 USART, 1 I^{2}C	—/11/—	88	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30624FGAFP#U3-ND◆	37.68	35.17	32.66
										-20°C ~ 85°C	100-QFP	M30624FGAFP#U5-ND◆	35.87	33.48	31.09
Flash	256K	—	20K	10-ch. x 10-bit	2-ch. x 8-bit	1 I^{2}C, 1 IEBus, 1 Smart Card	—/11/—	85	16MHz/4.2 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30624FGMFP#D3-ND	37.68	35.17	32.66
Flash	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30624FGPFP#U3C-ND◆	16.38	15.29	14.20
		—								-20°C ~ 85°C	100-QFP	M30624FGPFP#U5C-ND◆	15.60	14.56	13.52
		4K								-40°C ~ 85°C	100-QFP	M30624FGPFP#U7C-ND◆	16.58	15.47	14.37
		4K								-20°C ~ 85°C	100-QFP	M30624FGPFP#U9C-ND◆	15.80	14.75	13.69
Flash	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30624FGPGP#U3C-ND◆	15.74	14.69	13.64
		—								-20°C ~ 85°C	100-LQFP	M30624FGPGP#U5C-ND◆	15.00	14.00	13.00
		4K								-40°C ~ 85°C	100-LQFP	M30624FGPGP#U7C-ND◆	15.95	14.89	13.82
		4K								-20°C ~ 85°C	100-LQFP	M30624FGPGP#U9C-ND◆	15.20	14.19	13.17
ROMless	—	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30624SPFP#U3C-ND◆	12.37	11.12	9.86
										-20°C ~ 85°C	100-QFP	M30624SPFP#U5C-ND◆	11.24	10.10	8.96
ROMless	—	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30624SPGP#U3C-ND◆	11.07	9.95	8.82
										-20°C ~ 85°C	100-LQFP	M30624SPGP#U5C-ND◆	10.07	9.05	8.02
Flash	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M30625FGPGP#U3C-ND◆	16.80	15.68	14.56
		—								-20°C ~ 85°C	100-LQFP	M30625FGPGP#D5C-ND	17.78	16.01	14.20
		—								-20°C ~ 85°C	128-LQFP	M30625FGPGP#U5C-ND◆	16.01	14.94	13.88
		4K								-40°C ~ 85°C	128-LQFP	M30625FGPGP#U7C-ND◆	17.00	15.87	14.73
		4K								-20°C ~ 85°C	128-LQFP	M30625FGPGP#U9C-ND◆	16.20	15.12	14.04
Flash	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30626FHPFP#U3C-ND◆	18.48	17.25	16.02
		—								-20°C ~ 85°C	100-QFP	M30626FHPFP#U5C-ND◆	17.60	16.43	15.25
		4K								-40°C ~ 85°C	100-QFP	M30626FHPFP#U7C-ND◆	18.68	17.43	16.19
		4K								-20°C ~ 85°C	100-QFP	M30626FHPFP#U9C-ND◆	17.81	16.62	15.44
		—								-40°C ~ 85°C	100-LQFP	M30626FHPGP#U3C-ND◆	17.84	16.65	15.46
		—								-20°C ~ 85°C	100-LQFP	M30626FHPGP#U5C-ND◆	17.00	15.87	14.73
		4K								-40°C ~ 85°C	100-LQFP	M30626FHPGP#U7C-ND◆	18.05	16.85	15.64
		4K								-20°C ~ 85°C	100-LQFP	M30626FHPGP#U9C-ND◆	17.21	16.06	14.92
Flash	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30626FJPFP#U3C-ND◆	20.58	19.21	17.84
		—								-20°C ~ 85°C	100-QFP	M30626FJPFP#U5C-ND◆	19.61	18.30	17.00
		4K								-40°C ~ 85°C	100-QFP	M30626FJPFP#U7C-ND◆	20.78	19.39	18.01
Flash	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30626FJPGP#U3C-ND◆	19.97	18.64	17.31
		—								-20°C ~ 85°C	100-LQFP	M30626FJPGP#U5C-ND◆	19.01	17.74	16.48
		4K								-40°C ~ 85°C	100-LQFP	M30626FJPGP#U7C-ND◆	20.16	18.82	17.48
ROMless	—	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART 3 I^{2}C	—/11/—	88	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30626SPFP#U3C-ND◆	12.36	11.10	9.85
										-20°C ~ 85°C	100-QFP	M30626SPFP#U5C-ND◆	11.71	10.52	9.33
										-40°C ~ 85°C	100-LQFP	M30626SPGP#U3C-ND◆	11.41	10.25	9.09
										-20°C ~ 85°C	100-LQFP	M30626SPGP#U5C-ND◆	10.35	9.30	8.25

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

Microcontrollers

M16C Family M16C Platform Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M30627FHPGP#U3C-ND◆	18.90	17.64	16.38
		—								-20°C ~ 85°C	128-LQFP	M30627FHPGP#D5C-ND	18.00	16.80	15.60
		—								-20°C ~ 85°C	128-LQFP	M30627FHPGP#U5C-ND◆	18.00	16.80	15.60
		4K								-40°C ~ 85°C	128-LQFP	M30627FHPGP#U7C-ND◆	19.10	17.83	16.55
		4K								-20°C ~ 85°C	128-LQFP	M30627FHPGP#U9C-ND◆	18.20	16.99	15.77
Flash	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C	—/11/—	114	24MHz/2.7 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M30627FJPGP#U3C-ND◆	21.00	19.60	18.20
		—								-20°C ~ 85°C	128-LQFP	M30627FJPGP#U5C-ND◆	20.00	18.67	17.33
		4K								-40°C ~ 85°C	128-LQFP	M30627FJPGP#U7C-ND◆	21.20	19.79	18.37
		4K								-20°C ~ 85°C	128-LQFP	M30627FJPGP#U9C-ND◆	20.21	18.86	17.52
Flash	256K	—	10K	26-ch. 10-bit	2-ch. 8-bit	4 USART, 3 I^{2}C, 2 CAN	—/11/—	88	24MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M306N4FGGP#U3-ND◆	19.01	17.74	16.48
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	7 USART, 3 I^{2}C, 2 CAN	—/11/—	114	24MHz/3 ~ 5.5V	-40°C ~ 85°C	128-LQFP	M306NMFJGP#U3-ND◆	25.01	23.34	21.68
	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C, 2 CAN	—/11/—	88	24MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M306NKFHGP#U3-ND◆	22.01	20.54	19.08
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I^{2}C, 2 CAN	—/11/—	88	24MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M306NKFJGP#U3-ND◆	24.00	22.40	20.80
	256K	—	20K	10-ch. 10-bit	2-ch. 8-bit	5 USART	—/11/—	88	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30803FGGP#U3-ND◆	39.66	37.02	34.38
	256K	—	20K	10-ch. 10-bit	2-ch. 8-bit	5 USART	—/11/—	124	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30805FGGP#U5-ND◆	41.42	38.66	35.90

M16C Tiny Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	24K	—	1K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30260F3AGP#U3-ND◆	9.38	7.51	6.34
		—								-40°C ~ 85°C	48-LQFP	M30260F3AGP#U3A-ND◆	9.38	7.51	6.34
		—								-20°C ~ 85°C	48-LQFP	M30260F3AGP#U5-ND◆	8.88	7.11	6.00
		—								-20°C ~ 85°C	48-LQFP	M30260F3AGP#U5A-ND◆	8.88	7.11	6.00
		4K								-40°C ~ 85°C	48-LQFP	M30260F3AGP#U7A-ND◆	9.66	7.73	6.53
		4K								-20°C ~ 85°C	48-LQFP	M30260F3AGP#U9A-ND◆	9.14	7.32	6.17
Flash	48K	—	2K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30260F6AGP#U3A-ND◆	8.48	7.62	6.76
		—								-20°C ~ 85°C	48-LQFP	M30260F6AGP#U5A-ND◆	9.66	7.73	6.53
		4K								-40°C ~ 85°C	48-LQFP	M30260F6AGP#U7A-ND◆	8.70	7.82	6.93
		4K								-20°C ~ 85°C	48-LQFP	M30260F6AGP#U9A-ND◆	9.92	7.94	6.70
Flash	64K	—	2K	12-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	39	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30260F8AGP#U3A-ND◆	8.90	8.00	7.09
		—								-20°C ~ 85°C	48-LQFP	M30260F8AGP#U5A-ND◆	8.48	7.62	6.76
		4K								-40°C ~ 85°C	48-LQFP	M30260F8AGP#U7A-ND◆	9.13	8.21	7.28
		4K								-20°C ~ 85°C	48-LQFP	M30260F8AGP#U9A-ND◆	8.70	7.82	6.93
Flash	24K	4K	1K	8-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	38	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30262F3GP#U7-ND◆	9.66	7.73	6.53
Flash	32K	—	1K	8-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	38	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30262F4GP#D3-ND	9.66	7.73	6.53
		—									48-LQFP	M30262F4GP#U3-ND◆	9.66	7.73	6.53
		4K									48-LQFP	M30262F4GP#U7-ND◆	9.92	7.94	6.70
Flash	48K	—	2K	8-ch. 10-bit	—	3 USART, 1 I2C	—/8/—	38	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30262F6GP#U3-ND◆	8.48	7.62	6.76
		—								-20°C ~ 85°C	48-LQFP	M30262F6GP#D5-ND	9.66	7.73	6.53
		4K								-40°C ~ 85°C	48-LQFP	M30262F6GP#U7-ND◆	8.70	7.82	6.93
Flash	64K	—	2K	8-ch. 10-bit	—	3 USART, 1 I^{2}C	—/8/—	38	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	48-LQFP	M30262F8GP#D3-ND	8.88	8.00	7.09
		—								-40°C ~ 85°C	48-LQFP	M30262F8GP#U3-ND◆	8.90	8.00	7.09
		—								-40°C ~ 85°C	48-LQFP	M30262F8GP#U7-ND◆	9.13	8.21	7.28
Flash	24K	—	1K	10-ch. 10-bit	—	2 USART, 1 I^{2}C	—/8/—	33	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	42-SSOP	M30263F3AFP#U5A-ND◆	8.88	7.11	6.00
Flash	48K	—	2K	10-ch. 10-bit	—	2 USART, 1 I^{2}C	—/8/—	33	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	42-SSOP	M30263F6AFP#U5A-ND◆	9.66	7.73	6.53
Flash	64K	—	2K	10-ch. 10-bit	—	2 USART, 1 I^{2}C	—/8/—	33	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	42-SSOP	M30263F8AFP#U5A-ND◆	8.48	7.62	6.76
		4K									42-SSOP	M30263F8AFP#U9A-ND◆	8.70	7.82	6.93
Flash	48K	—	4K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-LQFP	M30280F6HP#D5-ND	11.44	9.16	7.73
		—								-40°C ~ 85°C	80-LQFP	M30280F6HP#U3B-ND◆	9.95	8.96	7.95
		—								-20°C ~ 85°C	80-LQFP	M30280F6HP#U5-ND◆	9.53	8.58	7.61
		—								-20°C ~ 85°C	80-LQFP	M30280F6HP#U5B-ND◆	9.55	8.58	7.61
		4K								-40°C ~ 85°C	80-LQFP	M30280F6HP#U7-ND◆	10.18	9.17	8.13
		4K								-40°C ~ 85°C	80-LQFP	M30280F6HP#U7B-ND◆	10.20	9.17	8.13
		4K								-20°C ~ 85°C	80-LQFP	M30280F6HP#U9-ND◆	9.75	8.78	7.79
		4K								-20°C ~ 85°C	80-LQFP	M30280F6HP#U9B-ND◆	9.77	8.78	7.79
Flash	64K	—	4K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30280F8HP#U3-ND◆	10.38	9.35	8.29
		—								-40°C ~ 85°C	80-LQFP	M30280F8HP#U3B-ND◆	10.40	9.35	8.29
		—								-20°C ~ 85°C	80-LQFP	M30280F8HP#D5-ND	11.94	9.56	8.06
		—								-20°C ~ 85°C	80-LQFP	M30280F8HP#U5-ND◆	9.95	8.96	7.95
		—								-20°C ~ 85°C	80-LQFP	M30280F8HP#U5B-ND◆	9.97	8.96	7.95
		4K								-40°C ~ 85°C	80-LQFP	M30280F8HP#U7-ND◆	10.60	9.54	8.46
		4K								-40°C ~ 85°C	80-LQFP	M30280F8HP#U7B-ND◆	10.62	9.54	8.46
		4K								-20°C ~ 85°C	80-LQFP	M30280F8HP#U9B-ND◆	10.18	9.17	8.13
Flash	96K	—	8K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30280FAHP#U3B-ND◆	11.24	10.10	8.96
		—								-20°C ~ 85°C	80-LQFP	M30280FAHP#D5-ND	12.96	10.37	8.75
		—								-20°C ~ 85°C	80-LQFP	M30280FAHP#U5B-ND◆	10.82	9.72	8.62
		4K								-40°C ~ 85°C	80-LQFP	M30280FAHP#U7-ND◆	11.45	10.31	9.14
		4K								-40°C ~ 85°C	80-LQFP	M30280FAHP#U7B-ND◆	11.47	10.31	9.14
		4K								-20°C ~ 85°C	80-LQFP	M30280FAHP#U9B-ND◆	11.04	9.92	8.80
Flash	128K	—	12K	24-ch. 10-bit	—	5 USART, 2 I^{2}C	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30280FCHP#U3B-ND◆	12.26	11.01	9.77
		—								-20°C ~ 85°C	80-LQFP	M30280FCHP#U5B-ND◆	11.67	10.49	9.30
		4K								-40°C ~ 85°C	80-LQFP	M30280FCHP#U7B-ND◆	12.47	11.21	9.94
		4K								-20°C ~ 85°C	80-LQFP	M30280FCHP#U9B-ND◆	11.89	10.68	9.47
Flash	48K	—	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281F6HP#U3-ND◆	9.53	8.58	7.61
		—								-40°C ~ 85°C	64-LQFP	M30281F6HP#U3B-ND◆	9.55	8.58	7.61
		—								-20°C ~ 85°C	64-LQFP	M30281F6HP#U5-ND◆	9.11	8.21	7.28
		—								-20°C ~ 85°C	64-LQFP	M30281F6HP#U5B-ND◆	9.13	8.21	7.28
		4K								-40°C ~ 85°C	64-LQFP	M30281F6HP#U7-ND◆	9.75	8.78	7.79
		4K								-40°C ~ 85°C	64-LQFP	M30281F6HP#U7B-ND◆	9.77	8.78	7.79
		4K								-20°C ~ 85°C	64-LQFP	M30281F6HP#U9-ND◆	9.33	8.40	7.45
		4K								-20°C ~ 85°C	64-LQFP	M30281F6HP#U9B-ND◆	9.35	8.40	7.45
Flash	64K	—	4K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281F8HP#U3-ND◆	9.95	8.96	7.95
		—								-40°C ~ 85°C	64-LQFP	M30281F8HP#U3B-ND◆	9.97	8.96	7.95
		—								-20°C ~ 85°C	100-LQFP	M30281F8HP#D5-ND	11.44	9.16	7.73
		—								-20°C ~ 85°C	64-LQFP	M30281F8HP#U5-ND◆	9.53	8.58	7.61
		—								-20°C ~ 85°C	64-LQFP	M30281F8HP#U5B-ND◆	9.55	8.58	7.61
		4K								-40°C ~ 85°C	64-LQFP	M30281F8HP#U7B-ND◆	10.20	9.17	8.13
		4K								-20°C ~ 85°C	64-LQFP	M30281F8HP#U9B-ND◆	9.77	8.78	7.79
Flash	96K	—	8K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281FAHP#U3-ND◆	10.80	9.72	8.62
		—								-40°C ~ 85°C	64-LQFP	M30281FAHP#U3B-ND◆	10.82	9.72	8.62
		4K								-40°C ~ 85°C	64-LQFP	M30281FAHP#U7B-ND◆	11.04	9.92	8.80
		4K								-20°C ~ 85°C	64-LQFP	M30281FAHP#U9B-ND◆	10.62	9.54	8.46
Flash	96K	—	8K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/3 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281FATHP#U3A-ND◆	12.86	12.00	11.15
Flash	128K	—	12K	13-ch. 10-bit	—	4 USART, 2 I^{2}C	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30281FCHP#U3B-ND◆	11.81	10.61	9.41
		4K								-40°C ~ 85°C	64-LQFP	M30281FCHP#U7B-ND◆	12.02	10.80	9.58
		4K								-20°C ~ 85°C	64-LQFP	M30281FCHP#U9B-ND◆	11.47	10.31	9.14
Flash	96K	—	8K	27-ch. 10-bit	—	5 USART, 2 I^{2}C, 1CAN	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30290FAHP#U3A-ND◆	12.94	11.63	10.31
		—								-20°C ~ 85°C	80-LQFP	M30290FAHP#U5A-ND◆	12.29	11.04	9.79
		4K								-40°C ~ 85°C	80-LQFP	M30290FAHP#U7A-ND◆	13.13	11.82	10.49
		4K								-20°C ~ 85°C	80-LQFP	M30290FAHP#U9A-ND◆	12.48	11.24	9.97

◆ ***RoHS Compliant*** *SSU = SPI®

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Microcontrollers

M16C Family M16C Tiny Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.		Price Each	
													1	25	100
Flash	128K	—	12K	27-ch. 10-bit	—	5 USART, 2 I^{2}C, 1 CAN	—/9/—	71	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	80-LQFP	M30290FCHP#U3A-ND◆	14.01	12.59	11.16
		—								-20°C ~ 85°C	80-LQFP	M30290FCHP#U5A-ND◆	13.36	12.00	10.64
		4K								-40°C ~ 85°C	80-LQFP	M30290FCHP#U7A-ND◆	14.23	12.78	11.34
		4K								-20°C ~ 85°C	80-LQFP	M30290FCHP#U9A-ND◆	13.58	12.20	10.82
Flash	96K	—	8K	16-ch. 10-bit	—	4 USART, 2 I^{2}C, 1 CAN	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30291FAHP#U3A-ND◆	12.48	11.24	9.97
		—								-20°C ~ 85°C	64-LQFP	M30291FAHP#U5A-ND◆	11.85	10.67	9.46
		4K								-40°C ~ 85°C	64-LQFP	M30291FAHP#U7A-ND◆	12.71	11.45	10.15
		4K								-20°C ~ 85°C	64-LQFP	M30291FAHP#U9A-ND◆	12.09	10.86	9.63
Flash	96K	—	8K	16-ch. 10-bit	—	4 USART, 2 I^{2}C, 1 CAN	—/9/—	55	20MHz/4.2 ~ 5.5V	-40°C ~ 125°C	64-LQFP	M30291FAVHP#U3A-ND◆	15.20	14.19	13.17
Flash	128K	—	12K	16-ch. 10-bit	—	4 USART, 2 I^{2}C, 1 CAN	—/9/—	55	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	64-LQFP	M30291FCHP#U3A-ND◆	13.58	12.20	10.82
		—								-20°C ~ 85°C	64-LQFP	M30291FCHP#U5A-ND◆	12.91	11.63	10.31
		4K								-40°C ~ 85°C	64-LQFP	M30291FCHP#U7A-ND◆	13.81	12.41	11.00
		4K								-20°C ~ 85°C	64-LQFP	M30291FCHP#U9A-ND◆	13.16	11.82	10.49

M32 Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.		Price Each	
													1	25	100
ROMless	—	—	8K	10-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C	—/11/—	48	32MHz/3 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30800SAFP#U5-ND◆	9.57	8.60	7.63
										-20°C ~ 85°C	100-QFP	M30800SAFP-BL#U5-ND◆	10.02	9.00	7.98
										-20°C ~ 85°C	100-LQFP	M30800SAGP#U5-ND◆	8.90	8.00	7.09
										-20°C ~ 85°C	100-LQFP	M30800SAGP-BL#U5-ND◆	9.35	8.40	7.45
Flash	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30833FJFP#U3-ND◆	40.19	37.51	34.83
										-20°C ~ 85°C	100-QFP	M30833FJFP#U5-ND◆	38.27	35.72	33.17
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30833FJGP#U3-ND◆	39.95	37.29	34.62
										-20°C ~ 85°C	100-LQFP	M30833FJGP#U5-ND◆	38.00	35.47	32.93
	512K	—	31K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30835FJGP#U3-ND◆	41.70	38.92	36.14
										-20°C ~ 85°C	144-LQFP	M30835FJGP#U5-ND◆	39.68	37.03	34.39
ROMless	—	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30840SGP#U5-ND◆	8.87	8.28	7.69
	—	—	10K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-20°C ~ 85°C	144-LQFP	M30842SGP#U5-ND◆	10.88	9.80	8.69
Flash	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-QFP	M30843FHFP#U3-ND◆	24.86	23.20	21.55
										-20°C ~ 85°C	100-QFP	M30843FHFP#U5-ND◆	22.61	21.10	19.60
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30843FHGP#U3-ND◆	24.20	22.59	20.97
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-20°C ~ 85°C	100-LQFP	M30843FHGP#D5-ND	22.01	20.54	19.08
											100-LQFP	M30843FHGP#U5-ND◆	22.01	20.54	19.08
Flash	512K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30843FJFP#U3-ND◆	27.06	25.26	23.46
										-40°C ~ 85°C	100-LQFP	M30843FJGP#U3-ND◆	26.40	24.64	22.88
										-20°C ~ 85°C	100-LQFP	M30843FJFP#D5-ND	24.60	22.96	21.32
										-20°C ~ 85°C	100-LQFP	M30843FJGP#D5-ND	24.00	22.40	20.80
										-20°C ~ 85°C	100-QFP	M30843FJFP#U5-ND◆	24.60	22.96	21.32
										-20°C ~ 85°C	100-LQFP	M30843FJGP#U5-ND◆	24.00	22.40	20.80
Flash	320K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30843FWGP#U3-ND◆	23.10	21.56	20.02
										-20°C ~ 85°C	100-LQFP	M30843FWGP#U5-ND◆	21.00	19.60	18.20
Flash	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30845FHGP#U3-ND◆	27.50	25.67	23.83
										-20°C ~ 85°C	144-LQFP	M30845FHGP#U5-ND◆	25.01	23.34	21.68
Flash	512K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30845FJGP#U3-ND◆	29.70	27.72	25.74
										-20°C ~ 85°C	144-LQFP	M30845FJGP#U5-ND◆	27.00	25.20	23.40
Flash	320K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30845FWGP#U3-ND◆	26.40	24.64	22.88
										-20°C ~ 85°C	144-LQFP	M30845FWGP#U5-ND◆	24.00	22.40	20.80
Flash	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30853FHFP#D5-ND	23.60	22.03	20.45
										-40°C ~ 85°C	100-QFP	M30853FHFP#U3-ND◆	25.97	24.24	22.51
										-20°C ~ 85°C	100-QFP	M30853FHFP#U5-ND◆	23.60	22.03	20.45
										-40°C ~ 85°C	100-LQFP	M30853FHGP#U3-ND◆	25.31	23.62	21.94
										-20°C ~ 85°C	100-LQFP	M30853FHGP#U5-ND◆	23.00	21.47	19.93
Flash	512K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30853FJGP#U3-ND◆	27.50	25.67	23.83
										-20°C ~ 85°C	100-LQFP	M30853FJGP#D5-ND	25.01	23.34	21.68
										-40°C ~ 85°C	100-QFP	M30853FJFP#U3-ND◆	28.17	26.30	24.42
										-20°C ~ 85°C	100-QFP	M30853FJFP#U5-ND◆	25.61	23.90	22.20
Flash	320K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I$_2$C, 2 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-20°C ~ 85°C	100-QFP	M30853FWFP#U5-ND◆	31.58	29.47	27.37
										-20°C ~ 85°C	100-LQFP	M30853FWGP#U5-ND◆	31.34	29.25	27.16
										-40°C ~ 85°C	100-LQFP	M30853FWGP#U3-ND◆	32.90	30.71	28.51
Flash	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30855FHGP#U3-ND◆	28.61	26.70	24.80
										-20°C ~ 85°C	144-LQFP	M30855FHGP#U5-ND◆	26.00	24.27	22.53
Flash	320K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30855FWGP#U3-ND◆	34.64	32.33	30.02
										-20°C ~ 85°C	144-LQFP	M30855FWGP#U5-ND◆	33.00	30.80	28.60
Flash	512K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30855FJGP#U3-ND◆	30.80	28.75	26.69
										-20°C ~ 85°C	144-LQFP	M30855FJGP#U5-ND◆	28.01	26.14	24.28
	512K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30865FJGP#U3-ND◆	31.91	29.78	27.66
										-20°C - 85°C	100-LQFP	M30865FJGP#D5-ND	29.00	27.07	25.13
Flash	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30873FHAGP#U3-ND◆	20.21	18.86	17.52
										-20°C - 85°C	100-LQFP	M30873FHAGP#U5-ND◆	18.36	17.14	15.92
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30873FHBGP#U3-ND◆	19.61	18.30	17.00
										-20°C - 85°C	100-LQFP	M30873FHBGP#U5-ND◆	17.82	16.64	15.45
	384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30873FHGP#U3-ND◆	20.81	19.42	18.04
										-20°C ~ 85°C	100-LQFP	M30873FHGP#U5-ND◆	18.90	17.64	16.38
	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30875FHAGP#U3-ND◆	22.02	20.56	19.09
										-20°C ~ 85°C	144-LQFP	M30875FHAGP#U5-ND◆	20.18	18.83	17.49
	384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30875FHBGP#U3-ND◆	21.42	20.00	18.57
										-20°C ~ 85°C	144-LQFP	M30875FHBGP#U5-ND◆	19.64	18.33	17.02
	384K	—	24K	34-ch. 10-bit	2-ch 8-bit	7 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30875FHGP#U3-ND◆	22.62	21.12	19.61
										-20°C ~ 85°C	144-LQFP	M30875FHGP#U5-ND◆	20.72	19.34	17.96
Flash	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30876FJAGP#U3-ND◆	22.40	20.91	19.41
										-20°C ~ 85°C	100-LQFP	M30876FJAGP#U5-ND◆	20.36	19.00	17.65
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30876FJBGP#U3-ND◆	21.80	20.35	18.89
										-20°C ~ 85°C	100-LQFP	M30876FJBGP#U5-ND◆	19.82	18.50	17.18
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30876FJGP#U3-ND◆	23.00	21.47	19.93
										-20°C ~ 85°C	100-LQFP	M30876FJGP#U5-ND◆	20.90	19.51	18.11
	512K	—	31K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30878FJAGP#U3-ND◆	24.23	22.61	21.00
										-20°C ~ 85°C	144-LQFP	M30878FJAGP#U5-ND◆	22.19	20.71	19.23
	512K	—	31K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30878FJBGP#U3-ND◆	23.81	22.22	20.64
										-20°C ~ 85°C	144-LQFP	M30878FJBGP#U5-ND◆	21.65	20.21	18.76
	512K	—	31K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^{2}C, 2 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M30878FJGP#U3-ND◆	24.83	23.17	21.52
										-20°C ~ 85°C	144-LQFP	M30878FJGP#U5-ND◆	22.73	21.21	19.70
Flash	768K	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^{2}C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30879FKAGP#U3-ND◆	25.14	23.47	21.79
										-20°C ~ 85°C	100-LQFP	M30879FKAGP#U5-ND◆	22.86	21.34	19.82

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

Microcontrollers

M16C Family M32 Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	768K	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^2C	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	100-LQFP 100-LQFP	M30879FKBGP#U3-ND◆ M30879FKBGP#U5-ND◆	24.09 21.83	22.49 20.37	20.88 18.92
Flash	768K	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^2C, 2 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	100-LQFP 100-LQFP	M30879FKGP#U3-ND◆ M30879FKGP#U5-ND◆	25.20 22.91	23.52 21.38	21.84 19.86
Flash	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^2C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	100-QFP 100-QFP	M30879FLAFP#U3-ND◆ M30879FLAFP#U5-ND◆	26.82 24.38	25.04 22.75	23.25 21.13
Flash	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^2C, 1 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	100-LQFP 100-LQFP	M30879FLAGP#U3-ND◆ M30879FLAGP#U5-ND◆	26.81 24.36	25.02 22.74	23.24 21.12
Flash	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^2C	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	100-QFP 100-QFP	M30879FLBFP#U3-ND◆ M30879FLBFP#U5-ND◆	25.76 23.42	24.04 21.86	22.33 20.30
Flash	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^2C	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	100-LQFP 100-LQFP	M30879FLBGP#U3-ND◆ M30879FLBGP#U5-ND◆	26.21 23.82	24.46 22.24	22.72 20.65
Flash	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^2C, 2 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	100-QFP 100-QFP	M30879FLFP#U3-ND◆ M30879FLFP#U5-ND◆	27.77 25.28	25.92 23.59	24.07 21.91
Flash	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I^2C, 2 CAN	—/11/—	88	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	100-LQFP 100-LQFP	M30879FLGP#U3-ND◆ M30879FLGP#U5-ND◆	27.41 24.90	25.58 23.24	23.76 21.58
Flash	768K	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^2C, 1 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	144-LQFP 144-LQFP	M3087BFKAGP#U3-ND◆ M3087BFKAGP#U5-ND◆	27.24 24.77	25.43 23.12	23.61 21.47
Flash	768K	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^2C	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	144-LQFP 144-LQFP	M3087BFKBGP#U3-ND◆ M3087BFKBGP#U5-ND◆	25.14 22.86	23.47 21.34	21.79 19.82
Flash	768K	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^2C, 2 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C	144-LQFP	M3087BFKGP#U3-ND◆	27.20	25.39	23.57
Flash	1M	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^2C, 1,CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	144-LQFP 144-LQFP	M3087BFLAGP#U3-ND◆ M3087BFLAGP#U5-ND◆	28.80 26.18	26.88 24.43	24.96 22.69
Flash	1M	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^2C	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	144-LQFP 144-LQFP	M3087BFLBGP#U3-ND◆ M3087BFLBGP#U5-ND◆	28.02 25.64	26.16 23.93	24.29 22.22
Flash	1M	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I^2C, 2 CAN	—/11/—	124	32MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	144-LQFP 144-LQFP	M3087BFLGP#U3-ND◆ M3087BFLGP#U5-ND◆	29.22 26.72	27.28 24.94	25.33 23.16
Flash	320K	—	18K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I^2C, 3 CAN	—/11/—	88	32MHz/4.2 ~ 5.5V	-40°C ~ 85°C	100-LQFP	M30880FWTGP#U0-ND◆	38.28	35.73	33.18

R8C Tiny Series

The R8C 16-bit microcontrollers are small in size, yet big in performance and value. They excel for 8-bit embedded system applications that need low-cost devices and deliver high performance, yet save space with small, low-pin count packages. These microcontrollers for general purpose applications deliver up to 20MHz speed, up to 96K of on-chip flash memory, offer versatile peripherals, and are packaged with 80 pins or less. Based on the MC16 family of 16-bit microcontrollers, the R8C Tiny inherits the same features of high performance, ROM code efficiency, low power consumption, and low noise, while its instruction compatibility allows the use of existing M16C family software resources.

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	4K	—	375	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^2C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SDIP	R5F211A1DD#U0-ND◆	3.71	2.97	2.31
Flash	4K	—	375	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^2C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	20-LSSOP 20-LSSOP	R5F211A1DSP#U0-ND◆ R5F211A1SP#U0-ND◆	3.44 3.15	2.76 2.52	2.15 1.96
Flash	4K	2K	375	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^2C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C	20-SDIP 20-LSSOP	R5F211B1DD#U0-ND◆ R5F211B1DSP#U0-ND◆	4.14 3.87	3.32 3.10	2.58 2.41
Flash	4K	2K	375	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^2C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-LSSOP	R5F211B1SP#U0-ND◆	3.58	2.87	2.23
Flash	4K	—	375	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21181SP#U0-ND◆	2.99	2.40	1.87
Flash	4K	2K	375	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -20°C ~ 85°C -40°C ~ 85°C	20-SDIP 20-SSOP 20-LSSOP	R5F21191DD#U0-ND◆ R5F21191SP#U0-ND◆ R5F21191DSP#U0-ND◆	3.98 3.42 3.71	3.19 2.74 2.97	2.48 2.13 2.31
Flash	8K	—	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^2C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	20-SDIP 20-LSSOP 28-HWQFN 20-LSSOP	R5F211A2DD#U0-ND◆ R5F211A2DSP#U0-ND◆ R5F211A2NP#U0-ND◆ R5F211A2SP#U0-ND◆	3.98 3.71 4.14 3.42	3.19 2.97 3.32 2.74	2.48 2.31 2.58 2.13
Flash	8K	2K	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^2C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	20-SDIP 20-LSSOP 28-HWQFN 20-LSSOP	R5F211B2DD#U0-ND◆ R5F211B2DSP#U0-ND◆ R5F211B2NP#U0-ND◆ R5F211B2SP#U0-ND◆	4.43 4.16 4.57 3.87	3.55 3.33 3.66 3.10	2.76 2.59 2.85 2.41
Flash	8K	—	500	8-ch. 10-bit	—	2 USART	2/1/—	24	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21102DFP#U0-ND◆ R5F21102FP#U0-ND◆	4.57 4.30	3.66 3.44	2.85 2.68
Flash	16K	—	1K	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21104DFP#U0-ND◆	5.13	4.11	3.20
Flash	8K	—	500	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21112DFP#U0-ND◆ R5F21112FP#U0-ND◆	4.75 4.43	3.80 3.55	2.96 2.76
Flash	12K	—	750	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21113DFP#U0-ND◆	5.02	4.02	3.13
Flash	16K	—	1K	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21114DFP#U0-ND◆	5.31	4.25	3.31
Flash	8K	4K	500	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21122DFP#U0-ND◆ R5F21122FP#U0-ND◆	5.02 4.70	4.02 3.77	3.13 2.93
Flash	12K	4K	750	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21123DFP#U0-ND◆	5.29	4.23	3.29
Flash	8K	4K	500	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21132DFP#U0-ND◆ R5F21132FP#U0-ND◆	5.15 4.86	4.13 3.89	3.21 3.03
Flash	8K	—	500	4-ch. 10-bit	—	1 USART, 1 SSU*	3/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	20-LSSOP 20-SSOP	R5F21142DSP#U0-ND◆ R5F21142SP#U0-ND◆	3.98 3.71	3.19 2.97	2.48 2.31
Flash	12K	—	750	4-ch. 10-bit	—	1 USART, 1 SSU*	3/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21143DSP#U0-ND◆	4.30	3.44	2.68
Flash	16K	—	1K	4-ch. 10-bit	—	1 USART, 1 SSU*	3/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21144DSP#U0-ND◆	4.57	3.66	2.85
Flash	8K	2K	500	4-ch. 10-bit	—	1 USART, 1 SSU*	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	20-SSOP 20-SSOP	R5F21152DSP#U0-ND◆ R5F21152SP#U0-ND◆	4.43 4.14	3.55 3.32	2.76 2.58
Flash	8K	—	500	4-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	20-LSSOP 20-SSOP	R5F21162DSP#U0-ND◆ R5F21162SP#U0-ND◆	4.14 3.87	3.32 3.10	2.58 2.41
Flash	12K	—	750	4-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21163DSP#U0-ND◆	4.43	3.55	2.76
Flash	16K	—	1K	4-ch. 10-bit	—	1 USART, 1 I^2C	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21164DSP#U0-ND◆	4.70	3.77	2.93
Flash	8K	2K	500	4-ch. 10-bit	—	1 USART, 1 I_2C	2/1/—	15	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21172SP#U0-ND◆	4.30	3.44	2.68
Flash	8K	—	500	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	20-SDIP 20-LSSOP 28-HWQFN 20-SSOP	R5F21182DD#U0-ND◆ R5F21182DSP#U0-ND◆ R5F21182NP#U0-ND◆ R5F21182SP#U0-ND◆	3.87 3.60 3.98 3.44	3.10 2.88 3.19 2.76	2.41 2.24 2.48 2.15
Flash	8K	2K	500	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	20-SDIP 20-LSSOP 28-HWQFN 20-SSOP	R5F21192DD#U0-ND◆ R5F21192DSP#U0-ND◆ R5F21192NP#U0-ND◆ R5F21192SP#U0-ND◆	4.30 4.03 4.43 3.71	3.44 3.23 3.55 2.97	2.68 2.51 2.76 2.31
Flash	12K	—	750	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^2C	2/1/—	16	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-SDIP 20-LSSOP 28-HWQFN 20-LSSOP	R5F211A3DD#U0-ND◆ R5F211A3DSP#U0-ND◆ R5F211A3NP#U0-ND◆ R5F211A3SP#U0-ND◆	4.30 3.98 4.43 3.71	3.44 3.19 3.55 2.97	2.68 2.48 2.76 2.31
Flash	12K	2K	750	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^2C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	20-SDIP 20-LSSOP 28-HWQFN 20-LSSOP	R5F211B3DD#U0-ND◆ R5F211B3DSP#U0-ND◆ R5F211B3NP#U0-ND◆ R5F211B3SP#U0-ND◆	4.70 4.43 4.86 4.14	3.77 3.55 3.89 3.32	2.93 2.76 3.03 2.58
Flash	12K	—	750	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP 32-LQFP	R5F21103DFP#U0-ND◆ R5F21103FP#U0-ND◆	4.86 4.57	3.89 3.66	3.03 2.85
Flash	12K	—	750	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21113FP#U0-ND◆	4.70	3.77	2.93
Flash	12K	4K	750	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21123FP#U0-ND◆	5.02	4.02	3.13

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

Microcontrollers

M16C Family R8C Tiny Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	12K	4K	750	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21133FP#U0-ND◆	5.13	4.11	3.20
Flash	12K	—	750	4-ch. 10-bit	—	1 USART, 1 SSU*	3/1/—	15	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21143SP#U0-ND◆	3.98	3.19	2.48
Flash	12K	2K	750	4-ch. 10-bit	—	1 USART, 1 SSU*	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21153DSP#U0-ND◆	4.70	3.77	2.93
Flash	12K	—	750	4-ch. 10-bit	—	1 USART, 1 I^{2}C	2/1/—	15	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21163SP#U0-ND◆	4.14	3.32	2.58
Flash	12K	2K	750	4-ch. 10-bit	—	1 USART, 1 I^{2}C	2/1/—	15	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C	20-SSOP 20-LSSOP	R5F21173SP#U0-ND◆ R5F21173DSP#U0-ND◆	4.57 4.86	3.66 3.89	2.85 3.03
Flash	12K	—	750	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	20-SDIP 20-LSSOP 28-HWQFN 20-SSOP	R5F21183DD#U0-ND◆ R5F21183DSP#U0-ND◆ R5F21183NP#U0-ND◆ R5F21183SP#U0-ND◆	4.14 3.87 4.30 3.58	3.32 3.10 3.44 2.87	2.58 2.41 2.68 2.23
Flash	12K	2K	750	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	20-SDIP 20-LSSOP 28-HWQFN 20-SSOP	R5F21193DD#U0-ND◆ R5F21193DSP#U0-ND◆ R5F21193NP#U0-ND◆ R5F21193SP#U0-ND◆	4.57 4.30 4.70 3.98	3.66 3.44 3.77 3.19	2.85 2.68 2.93 2.48
Flash	16K	—	1K	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP 32-LQFP	R5F21104FP-ND R5F21104FP#U0-ND◆	5.11 4.86	4.09 3.89	3.18 3.03
Flash	16K	—	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	20-SDIP 20-LSSOP 28-HWQFN 20-LSSOP	R5F211A4DD#U0-ND◆ R5F211A4DSP#U0-ND◆ R5F211A4NP#U0-ND◆ R5F211A4SP#U0-ND◆	4.57 4.30 4.70 3.98	3.66 3.44 3.77 3.19	2.85 2.68 2.93 2.48
Flash	16K	2K	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	20-SDIP 20-LSSOP 28-HWQFN 20-LSSOP	R5F211B4DD#U0-ND◆ R5F211B4DSP#U0-ND◆ R5F211B4NP#U0-ND◆ R5F211B4SP#U0-ND◆	5.02 4.75 5.13 4.43	4.02 3.80 4.11 3.55	3.13 2.96 3.20 2.76
Flash	16K	—	1K	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F21114FP#U0-ND◆	5.02	4.02	3.13
Flash	16K	4K	1K	8-ch. 10-bit	—	2 USART	3/1/—	24	16MHz/2.7 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21124DFP#U0-ND◆ R5F21124FP#U0-ND◆	4.96 5.29	3.97 4.23	3.35 3.29
Flash	12K	4K	750	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	32-LQFP	R5F21133DFP#U0-ND◆	4.82	3.86	3.26
Flash	16K	4K	1K	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C	32-LQFP 32-LQFP	R5F21134FP#U0-ND◆ R5F21134DFP#U0-ND◆	5.42 5.10	4.34 4.08	3.38 3.45
Flash	16K	—	1K	4-ch. 10-bit	—	1 USART, 1 SSU*	2/1/—	15	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21144SP#U0-ND◆	4.30	3.44	2.68
Flash	16K	2K	1K	4-ch. 10-bit	—	1 USART, 1 SSU*	2/1/—	15	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C	20-SSOP 20-LSSOP	R5F21154SP#U0-ND◆ R5F21154DSP#U0-ND◆	4.70 5.02	3.77 4.02	2.93 3.13
Flash	16K	—	1K	4-ch. 10-bit	—	1 USART, 1 I^{2}C	2/1/—	15	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F21164SP#U0-ND◆	4.43	3.55	2.76
Flash	16K	2K	1K	4-ch. 10-bit	—	1 USART, 1 I^{2}C	2/1/—	15	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21174DSP#U0-ND◆	5.13	4.11	3.20
Flash	4K	—	375	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C	20-SDIP 20-LSSOP	R5F21181DD#U0-ND◆ R5F21181DSP#U0-ND◆	3.58 3.44	2.87 2.76	2.23 2.15
Flash	16K	—	1K	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	20-SDIP 20-LSSOP 28-HWQFN 20-SSOP	R5F21184DD#U0-ND◆ R5F21184DSP#U0-ND◆ R5F21184NP#U0-ND◆ R5F21184SP#U0-ND◆	4.43 4.16 4.57 3.87	3.55 3.33 3.66 3.10	2.76 2.59 2.85 2.41
Flash	16K	2K	1K	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 ~ 5.5V	-20°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	20-SDIP 20-LSSOP 28-HWQFN 20-LSSOP	R5F21194DD#U0-ND◆ R5F21194DSP#U0-ND◆ R5F21194NP#U0-ND◆ R5F21194SP#U0-ND◆	4.86 4.59 5.02 4.30	3.89 3.68 4.02 3.44	3.03 2.86 3.13 2.68
Flash	96K	—	7K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 I^{2}C	3/4/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP 64-LQFP	R5F212AASDFA#U0-ND◆ R5F212AASDFP#U0-ND◆	6.94 6.94	5.56 5.56	4.69 4.69
Flash	96K	—	7K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/4/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212AASNFP#U0-ND◆	6.66	5.33	4.50
Flash	128K	—	7.5K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 I^{2}C	3/4/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212ACSNFP#U0-ND◆	7.20	5.76	4.86
Flash	48K	—	2.5K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/4/—	57	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	64-LQFP	R5F212A7SDFP#U0-ND◆	6.14	4.92	4.15
Flash	48K	—	2.5K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/2/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP 64-LQFP	R5F212A7SNFP#U0-ND◆ R5F212A7SNFA#U0-ND◆	5.86 5.86	4.69 4.69	3.96 3.96
Flash	64K	—	3K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/2/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP 64-LQFP	R5F212A8SNFP#U0-ND◆ R5F212A8SNFA#U0-ND◆	6.14 6.14	4.92 4.92	4.15 4.15
Flash	96K	2K	7K	12-ch. 10-bit	2-ch. 8-bit	3 USART, I^{2}C	3/4/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212BASNFA#U0-ND◆	7.06	5.65	4.77
Flash	128K	2K	7.5K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 I^{2}C	3/4/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212BCSNFP#U0-ND◆	7.60	6.08	5.13
Flash	48K	2K	2.5K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/2/—	57	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	R5F212B7SNFP#U0-ND◆	6.26	5.01	4.23
Flash	64K	2K	3K	12-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/2/—	57	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	64-LQFP 64-LQFP	R5F212B8SDFP#U0-ND◆ R5F212B8SNFP#U0-ND◆	6.80 6.54	5.44 5.24	4.59 4.42
Flash	96K	2K	7K	20-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/4/—	73	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	80-LQFP	R5F212DASDFP#U0-ND◆	7.86	6.29	5.31
Flash	128K	2K	7.5K	20-ch. 10-bit	2-ch. 8-bit	3 USART, I^{2}C	3/4/—	73	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	80-LQFP	R5F212DCSNFP#U0-ND◆	8.14	6.52	5.50
Flash	48K	2K	2.5K	20-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/4/—	73	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	80-LQFP	R5F212D7SNFP#U0-ND◆	6.80	5.44	4.59
Flash	64K	2K	3K	20-ch. 10-bit	2-ch. 8-bit	3 USART, 1 SSU*, 1 I^{2}C	3/4/—	73	20MHz/2.2 ~ 5.5V	-20°C ~ 85°C	80-LQFP	R5F212D8SNFP#U0-ND◆	7.06	5.65	4.77
Flash	16K	—	512	—	—	2 UART	3/1/—	27	8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F212G4SNFP#U0-ND◆ ***NEW!***	4.50	3.60	2.80
Flash	32K	—	1K	—	—	2 UART	3/1/—	27	8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	32-LQFP	R5F212G6SNFP#U0-ND◆ ***NEW!***	5.11	4.09	3.18
Flash	4K	—	256	—	—	2 UART	3/1/—	15	8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F212H1SNSP#U0-ND◆ ***NEW!***	3.31	2.65	2.06
Flash	8K	—	384	—	—	2 UART	3/1/—	15	8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F212H2SNSP#U0-ND◆ ***NEW!***	3.60	2.88	2.24
Flash	2K	—	256	—	—	1 UART	2/1/—	12	8MHz/2.7 ~ 5.5V	-20°C ~ 85°C	20-SSOP	R5F212J0SNSP#U0-ND◆ ***NEW!***	2.86	2.29	1.78
Flash	48K	—	2.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C -40°C ~ 125°C	48-LQFP 48-LQFP	R5F21207JFP#U0-ND◆ R5F21207KFP#U0-ND◆	5.84 7.13	4.68 5.71	3.95 4.44
Flash	48K	—	2.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C, 1 CAN	3/2/—	44	20MHz/2.7 ~ 5.5V	-40°C ~ 85°C -40°C ~ 125°C	48-LQFP 48-LQFP	R5F21227JFP#U0-ND◆ R5F21227KFP#U0-ND◆	6.86 7.36	5.49 5.89	4.64 4.97
Flash	16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	52-LQFP 52-LQFP	R5F21244SDFP#U0-ND◆ R5F21244SNFP#U0-ND◆	4.82 5.13	3.86 4.11	3.26 3.20
Flash	32K	—	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	52-LQFP 52-LQFP	R5F21246SDFP#U0-ND◆ R5F21246SNFP#U0-ND◆	5.10 4.82	4.08 3.86	3.45 3.26
Flash	48K	—	2.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	52-LQFP 52-LQFP	R5F21247SDFP#U0-ND◆ R5F21247SNFP#U0-ND◆	5.60 5.34	4.48 4.28	3.78 3.61
Flash	64K	—	3K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	52-LQFP 52-LQFP	R5F21248SDFP#U0-ND◆ R5F21248SNFP#U0-ND◆	5.80 5.60	4.64 4.48	3.92 3.78
Flash	16K	2K	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	52-LQFP 52-LQFP	R5F21254SDFP#U0-ND◆ R5F21254SNFP#U0-ND◆	5.22 4.96	4.18 3.97	3.53 3.35
Flash	32K	2K	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	52-LQFP 52-LQFP	R5F21256SDFP#U0-ND◆ R5F21256SNFP#U0-ND◆	5.46 5.20	4.37 4.16	3.69 3.51
Flash	48K	2K	2.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	52-LQFP 52-LQFP	R5F21257SDFP#U0-ND◆ R5F21257SNFP#U0-ND◆	6.00 5.74	4.80 4.60	4.05 3.88
Flash	64K	2K	3K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/2/—	44	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	52-LQFP 52-LQFP	R5F21258SDFP#U0-ND◆ R5F21258SNFP#U0-ND◆	6.26 6.00	5.01 4.80	4.23 4.05
Flash	8K	—	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21262SDFP#U0-ND◆ R5F21262SNFP#U0-ND◆	4.79 4.50	3.84 3.60	2.99 2.80
Flash	16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21264SDFP#U0-ND◆ R5F21264SNFP#U0-ND◆	5.11 4.79	4.09 3.84	3.18 2.99
Flash	24K	—	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21265SDFP#U0-ND◆ R5F21265SNFP#U0-ND◆	5.40 5.11	4.32 4.09	3.36 3.18
Flash	32K	—	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I^{2}C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21266SDFP#U0-ND◆ R5F21266SNFP#U0-ND◆	5.06 5.40	4.05 4.32	3.42 3.36

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(Continued)

Microcontrollers

M16C Family R8C Tiny Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	8K	2K	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I²C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21272SDFP#U0-ND◆ R5F21272SNFP#U0-ND◆	5.24 4.95	4.20 3.96	3.27 3.08
Flash	16K	2K	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I²C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21274SDFP#U0-ND◆ R5F21274SNFP#U0-ND◆	5.56 5.24	4.45 4.20	3.46 3.27
Flash	24K	2K	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I²C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21275SDFP#U0-ND◆ R5F21275SNFP#U0-ND◆	5.20 5.56	4.16 4.45	3.51 3.46
Flash	32K	2K	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I²C	3/1/—	28	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	32-LQFP 32-LQFP	R5F21276SDFP#U0-ND◆ R5F21276SNFP#U0-ND◆	5.46 5.20	4.37 4.16	3.69 3.51
Flash	8K	—	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I²C	3/1/—	16	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21282SDSP#U0-ND◆	4.21	3.37	2.62
Flash	16K	—	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I²C	3/1/—	16	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21284SDSP#U0-ND◆	4.50	3.60	2.80
Flash	16K	2K	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I²C	3/1/—	16	20MHz/2.2 ~ 5.5V	-40°C ~ 85°C	20-LSSOP	R5F21294SDSP#U0-ND◆	4.95	3.96	3.08

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740 Family

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	36K	—	1K	8-ch. 10-bit	—	2 USART	2/2/—	29	8MHz/2.2 ~ 5.5V	-20°C ~ 85°C	36-SSOP	M37542F8FP#U0-ND◆	8.64	6.92	5.84
Flash	32K	—	1K	—	—	3 USART, 1 USB	3/2/—	66	24MHz/3 ~ 5.25V	-20°C ~ 70°C	80-LQFP	M37641F8HP#U0-ND◆	10.80	9.72	8.62
OTP	24K	—	512	8-ch. 8-bit	—	1 USART	3/2/—	38	8MHz/1.8 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38C13E6HP#U0-ND◆	6.80	5.44	4.59
Flash	60K	—	2K	8-ch. 10-bit	—	2 USART	4/2/—	51	8MHz/1.8 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38C29FFAFP#U0-ND◆	9.90	7.92	6.69
QzROM	16K	—	625	8-ch. 10-bit	—	2 USART	4/6/—	51	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	64-LQFP 64-LQFP	M38D24G4FP#U0-ND◆ M38D24G4HP#U0-ND◆	4.79 4.79	3.84 3.84	2.99 2.99
QzROM	24K	—	625	8-ch. 10-bit	—	2 USART	4/2/—	51	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	64-LQFP 64-LQFP	M38D24G6FP#U0-ND◆ M38D24G6HP#U0-ND◆	5.11 5.11	4.09 4.09	3.18 3.18
QzROM	32K	—	1.5K	8-ch. 10-bit	—	2 USART	4/2/—	59	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	80-QFP 80-LQFP	M38D58G8FP#U0-ND◆ M38D58G8HP#U0-ND◆	5.34 5.34	4.28 4.28	3.61 3.61
QzROM	48K	—	2K	8-ch. 10-bit	—	2 USART	4/2/—	59	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	80-QFP 80-LQFP	M38D59GCFP#U0-ND◆ M38D59GCHP#U0-ND◆	5.60 5.60	4.48 4.48	3.78 3.78
QzROM	60K	—	2K	8-ch. 10-bit	—	2 USART	4/2/—	59	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	80-QFP 80-LQFP	M38D59GFFP#U0-ND◆ M38D59GFHP#U0-ND◆	5.84 5.84	4.68 4.68	3.95 3.95
Flash	32K	—	2K	8-ch. 10-bit	—	1 USART	3/—/—	44	8MHz/3.0 ~ 5.2V	-20°C ~ 85°C	64-LQFP	M38K29F8LHP#U0-ND◆	9.80	8.81	7.81
QzROM	60K	—	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16MHz/2.7 ~ 5.5V	-20°C ~ 85°C	64-QFP	M38039FFHFP#U0-ND◆	9.86	7.89	6.66
QzROM	48K	—	2K	16-ch. 10-bit	2-ch. 8-bit	3 UART	4/1/—	56	16.8MHz/2 ~ 5.5V	-20°C ~ 85°C	64-LQFP	M38039GCHHP#U0-ND◆	5.40	4.32	3.36
QzROM	16K	—	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2 ~ 5.5V	-20°C ~ 85°C	64-LQFP 64-SDIP	M38039G4HHP#U0-ND◆ M38039G4HSP#U0-ND◆	3.96 5.51	3.17 4.41	2.47 3.43
QzROM	24K	—	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2 ~5.5V	-20°C ~ 85°C	64-LQFP 64-LQFP 64-SDIP	M38039G6HHP#U0-ND◆ M38039G6HKP#U0-ND◆ M38039G6HSP#U0-ND◆	4.21 4.32 5.14	3.37 3.46 4.12	2.62 2.69 3.47
QzROM	32K	—	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2 ~ 5.5V	-20°C ~ 85°C	64-LQFP 64-LQFP 64-SDIP	M38039G8HHP#U0-ND◆ M38039G8HKP#U0-ND◆ M38039G8HSP#U0-ND◆	4.48 4.59 5.38	3.59 3.68 4.31	2.79 2.86 3.64
QzROM	48K	—	2K	16-ch. 10-bit	2-ch. 8-bit	3 USART	4/1/—	56	16.8MHz/2 ~ 5.5V	-20°C ~ 85°C	64-LQFP 64-SDIP	M38039GCHKP#U0-ND◆ M38039GCHSP#U0-ND◆	5.56 6.40	4.45 5.12	3.46 4.32
QzROM	16K	—	512	9-ch. 10-bit	2-ch. 8-bit	2 UART	4/1/—	34	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	42-SSOP	M38503G4AFP#U1-ND◆	3.89	3.12	2.43
QzROM	16K	—	512	9-ch. 10-bit	2-ch. 8-bit	2 UART	4/—/—	34	12.5MHz/1.8 ~ 5.5V	-20°C ~ 85°C	42-DIP	M38503G4ASP#U1-ND◆	5.11	4.09	3.18
Flash	32K	—	1K	9-ch. 10-bit	—	2 USART	4/—/—	34	12.5MHz/2.7 ~ 5.5V	-20°C ~ 85°C	42-SSOP	M38507F8AFP#U1-ND◆	8.80	7.04	5.94
QzROM	48K	—	1.5K	—	—	2 USART	4/1/—	34	12.5MHz/2.7 ~ 5.5V	-20°C ~ 85°C	42-SSOP 42-SDIP	M38588GCFP#U0-ND◆ M38588GCSP#U0-ND◆	5.34 6.10	4.28 4.88	3.61 4.12
Flash	60K	—	2K	8-ch. 10-bit	2-ch. 8-bit	2 USART	4/—/—	72	10MHz/2.7 ~ 5.5V	-20°C ~ 85°C	80-QFP 80-LQFP	M38869FFAGP#U0-ND◆ M38869FFAHP#UU-ND◆	9.08 14.48	8.16 13.51	7.24 12.55
ROMless	—	—	148K	—	—	3 UART, 1 USART, 1 I²C	—/4/4	132	266MHz/1.2V	-20°C ~ 70°C	449-BGA	R8A77220AC266BGV-ND◆	45.00	42.00	39.00

◆ ***RoHS Compliant*** *SSU = SPI®

SuperH™ Family

SuperH is an embedded RISC developed for high performance, miniaturization and performance per power consumption (MIPS/W). We are developing CPU cores for a wide range of applications and functions and have many products. Our product lines include the series with SH-2 as the CPU core with on-chip large capacity flash memory and peripheral functions such as timer, serial and AD converter, and the series with SH-3 and SH-4 as the CPU core which enable high-speed data processing and come equipped with cache and MMU. Additionally, there is lineup of series with SH2-DSP and SH3-DSP as the CPU core, which have full DSP functions and an emphasis on multimedia processing and communications processing. Currently available series (products) also have lots of features such as low power mode, contributing to low power consumption and miniaturization for application hardware. Various versatile operating systems and development tools have been improved and, crucially, more efficient development can be achieved.

SH Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
ROMless	—	—	4K	—	—	3 USART, IrDA	—/2/—	78	100MHz/1.4 ~ 1.6V	-20°C ~ 75°C	176-LFBGA	D17618RBG100V-ND◆	14.81	13.34	11.83
ROMless	—	—	16K	—	—	4 USART, IrDA	—/2/—	78	125MHz/1.71 ~ 1.89V	-20°C ~ 70°C	176-LFBGA 176-LFBGA	DS76190B125BGV-ND◆ DS76190N125BGV-ND◆	18.09 19.01	16.89 17.74	15.68 16.48
ROMless	—	—	8K	8-ch. 10-bit	—	4 USART, IrDA, Smart Card, 1 I²C	—/5/—	106	50MHz/3 ~ 3.6V	-20°C ~ 75°C	114-LQFP	HD6417145F50V-ND◆	11.02	9.90	8.78
ROMless	—	—	—	8-ch. 10-bit	2-ch. 10-bit	UART	—/1/3	96	100MHz/3.3V 137MHz/3.3V	-20°C ~ 75°C	208-QFP 208-QFP	D6417709SF100BV-ND◆ D6417709SF133BV-ND◆	21.57 23.72	20.14 22.14	18.70 20.56
ROMless	—	—	16K	—	—	2 UART, 2 SSU,* 2 Ethernet	—/—/3	24	200MHz/1.5V	-20°C ~ 75°C	256-QFP	HD6417710FV-ND◆	23.93	22.33	20.74
ROMless	—	—	16K	6-ch. 10-bit	2-ch. 8-bit	3 UART, 2 USB, Smart Card	—/—/3	104	167MHz/1.9V	-20°C ~ 75°C	240-BGA 240-BGA	HD6417727BP160CV-ND◆	35.93	33.53	31.14
Flash	256K	—	12K	16-ch. 10-bit	—	3 USART, IrDA, 1 CAN	—/5/—	69	50MHz/4.5 ~ 5.5V	-20°C ~ 75°C	100-QFP	HD64F7047F50V-ND◆	19.04	17.77	16.50

SH-2 Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
ROMless	—	—	3K	8-ch. 10-bit	—	2 USART, IrDA	—/3/—	43	28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	112-QFP 112-QFP	HD6417014F28V-ND◆ HD6417014RF28V-ND◆	12.59 12.59	11.75 11.75	10.91 10.91
ROMless	—	—	4K	8-ch. 10-bit	—	2 USART, IrDA	—/5/—	82	16.7MHz/3 ~ 3.6V 28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	112-QFP 112-QFP	HD6417040AVCF16V-ND◆ HD6417040ACF28V-ND◆	18.66 21.75	17.42 20.30	16.18 18.85
ROMless	—	—	4K	8-ch. 10-bit	—	2 USART, IrDA	—/5/—	82	28.7MHz/4.5 ~ 5.5V 28.7MHz/4.5 ~ 5.5V 16.7MHz/3 ~ 3.6V	-20°C ~ 75°C	144-QFP 144-QFP 144-QFP	HD6417041ACF28V-ND◆ HD6417041AF28V-ND◆ HD6417041AVF16V-ND◆	18.48 18.48 19.25	17.25 17.25 17.97	16.02 16.02 16.68

◆ ***RoHS Compliant*** *SSU = SPI®

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Microcontrollers

SuperH™ Family SH-2 Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
ROMless	—	—	8K	8-ch. 10-bit	—	4 USART, IrDA, Smart Card, 1 I^{2}C	—/5/—	82	50MHz/3 ~ 3.6V	-20°C ~ 75°C -40°C ~ 85°C	112-QFP 112-QFP	HD6417144F50V-ND◆ HD6417144FW50V-ND◆	10.40 11.02	9.35 9.90	8.29 8.78
ROMless	—	—	8K	8-ch. 10-bit	—	4 USART, IrDA, Smart Card, 1 I^2 C	—/5/—	106	50MHz/3 ~ 3.6V	-40°C ~ 85°C	114-LQFP	HD6417145FW50V-ND◆	11.67	10.49	9.30
ROMless	—	—	4K	—	—	3 USART, IrDA	—/—/—	78	100MHz/3 ~ 3.6V	-20°C ~ 75°C -20°C ~ 75°C -40°C ~ 85°C	176-LFBGA 176-LFBGA 176-LFBGA	D17606BG100V-ND◆ D17606BGN100V-ND◆ D17606BGW100V-ND◆	14.85 14.85 14.66	13.34 13.34 13.68	11.83 11.83 12.71
ROMless	—	—	8K	—	—	5 USART, IrDA	—/4/—	30	62.5MHz/3 ~ 3.6V	-20°C ~ 75°C -20°C ~ 75°C	240-LFBGA 208-LQFP	HD6417615ARBPV-ND◆ HD6417615ARFV-ND◆	24.77 21.90	23.12 20.44	21.47 18.98
ROMless	—	—	8K	—	—	5 USART, IrDA	—/4/—	30	62.5MHz/3 ~ 3.6V	-20°C ~ 75°C	208-LQFP	HD6417616SFV-ND◆	24.77	23.12	21.47
ROMless	—	—	4K	—	—	3 USART IrDA	—/2/—	78	100MHz/1.4 ~ 1.6V	-20°C ~ 75°C -20°C ~ 75°C -40°C ~ 85°C -40°C ~ 85°C	176-LFBGA 176-LFBGA 176-LFBGA 176-LFBGA	D17618ABG100V-ND◆ D17618ABGN100V-ND◆ D17618ABGW100V-ND◆ D17618RBGW100V-ND◆	14.28 15.24 15.24 14.66	13.33 14.23 14.23 13.68	12.38 13.21 13.21 12.71
ROMless	—	—	4K	—	—	3 USART, IrDA	—/2/—	71	100MHz/3 ~ 3.6V	-20°C ~ 75°C	176-LFBGA 176-LFBGA	D17618RBG100V-ND◆ D17618RBGN100V-ND◆	14.81 14.81	13.34 13.34	11.83 11.83
Flash	128K	—	4K	8-ch. 10-bit	—	2 USART, IrDA	WDT, MTU, CMT	82	28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	112-QFP	HD64F7017F28V-ND◆	24.00	22.40	20.80
Flash	256K	—	4K	8-ch. 10-bit	—	2 USART, IrDA	WDT, MTU, CMT	82	28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	112-QFP	HD64F7044F28V-ND◆	39.42	36.80	34.17
Flash	256K	—	4K	8-ch. 10-bit	—	2 USART	WDT, MTU, CMT	106	28.7MHz/4.5 ~ 5.5V	-20°C ~ 75°C	144-QFP	HD64F7045F28V-ND◆	41.52	38.76	35.99
Flash	256K	—	12K	12-ch. 10-bit	—	2 USART, IrDA	WDT, MTU, CMT	54	50MHz/4 ~ 5.5V	-20°C ~ 75°C	80-QFP	HD64F7046F50V-ND◆	18.11	16.90	15.70
Flash	256K	—	16K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C	WDT, MTU2, MTU2S, CMT	73	80MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	100-TQFP 100-TQFP	DF70834AD80FTV-ND◆ DF70834AN80FTV-ND◆	17.15 16.37	16.01 15.28	14.86 14.19
Flash	512K	—	32K	8-ch. 10-bit	—	4 USART, 1 SSU, 1 I^{2}C	WDT, MTU2, MTU2S, CMT	73	80MHz/3 ~ 5.5V	0°C ~ 50°C	100-TQFP	DE70835RN80FTV-ND◆	115.11	107.44	99.77
Flash	512K	—	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C	WDT, MTU2, MTU2S, CMT	73	80MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	100-TQFP 100-TQFP	DF70835AD80FTV-ND◆ DF70835AN80FTV-ND◆	22.01 20.00	20.54 18.67	19.08 17.33
Flash	256K	—	16K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C	WDT, MTU2, MTU2S, CMT	84	80MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	112-LQFP 112-LQFP	DF70844AD80FPV-ND◆ DF70844AN80FPV-ND◆	18.60 16.91	17.36 15.78	16.12 14.66
Flash	512K	—	32K	8-ch. 10-bit	—	4 USART, 1 SSU, 1 I^{2}C	WDT, MTU2, MTU2S, CMT	84	80MHz/3 ~ 5.5V	0°C ~ 50°C	112-LQFP	DE70845RN80FPV-ND◆	115.11	107.44	99.77
Flash	512K	—	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C	WDT, MTU2, MTU2S, CMT	84	80MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	112-LQFP 112-LQFP	DF70845AD80FPV-ND◆ DF70845AN80FPV-ND◆	22.61 20.54	21.10 19.17	19.60 17.80
Flash	256K	—	16K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C	WDT, MTU2, MTU2S, CMT	108	80MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	144-LQFP 144-LQFP	DF70854AD80FPV-ND◆ DF70854AN80FPV-ND◆	20.00 18.18	18.67 16.97	17.33 15.76
Flash	512K	—	32K	8-ch. 10-bit	—	4 USART, 1 SSU, 1 I^{2}C	WDT, MTU2, MTU2S, CMT	108	80MHz/3 ~ 5.5V	0°C ~ 50°C	144-LQFP	DE70855RN80FPV-ND◆	114.21	106.60	98.99
Flash	512K	—	32K	8-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C	WDT, MTU2, MTU2S, CMT	108	80MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	144-LQFP 144-LQFP 144-LQFP	DF70855AD80FPV-ND◆ DF70855AN80FPV-ND◆ DF70855RN80FPV-ND◆	22.86 21.75 82.50	21.34 20.30 77.00	19.82 18.85 71.50
Flash	512K	—	32K	16-ch. 10-bit	—	4 USART, 1 SSU, 1 I^{2}C	WDT, MTU2, MTU2S, CMT	134	80MHz/3 ~5.5V	0°C ~ 50°C	176-LQFP	DE70865RN80FPV-ND◆	115.11	107.44	99.77
Flash	512K	—	32K	16-ch. 10-bit	—	4 USART, 1 SSU*, 1 I^{2}C	WDT, MTU2, MTU2S, CMT	134	80MHz/3 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	176-LQFP 176-LQFP	DF70865AD80FPV-ND◆ DF70865AN80FPV-ND◆	24.77 23.64	23.12 22.07	21.47 20.49
Flash	64K	—	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	31	50MHz/4.5 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	48-LQFP 48-LQFP	DF71242D50FPV-ND◆ DF71242N50FPV-ND◆	12.42 12.21	11.16 10.97	9.90 9.73
Flash	128K	—	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	31	50MHz/4.5 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	48-LQFP 48-LQFP	DF71243D50FPV-ND◆ DF71243N50FPV-ND◆	13.48 13.24	12.11 11.90	10.74 10.55
Flash	64K	—	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	45	50MHz/4.5 ~ 5.5V	-40°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	64-QFP 64-LQFP 64-QFP 64-LQFP	DF71252D50FAV-ND◆ DF71252D50FPV-ND◆ DF71252N50FAV-ND◆ DF71252N50FPV-ND◆	13.36 12.94 12.71 12.71	12.00 11.63 11.42 11.42	10.64 10.31 10.13 10.13
Flash	128K	—	8K	8-ch. 10-bit	—	3 USART	WDT, MTU2, CMT	45	50MHz/4.5 ~ 5.5V	-40°C ~ 85°C -40°C ~ 85°C -20°C ~ 85°C -20°C ~ 85°C	64-QFP 64-LQFP 64-QFP 64-LQFP	DF71253D50FAV-ND◆ DF71253D50FPV-ND◆ DF71253N50FAV-ND◆ DF71253N50FPV-ND◆	14.01 14.01 13.78 13.78	12.59 12.59 12.38 12.38	11.16 11.16 10.98 10.98
Flash	256K	—	8K	8-ch. 10-bit	—	4 USART, Smart Card, 1 I^{2}C	WDT, MTU, CMT	82	50MHz/3 ~ 3.6V	-20°C ~ 75°C -40°C ~ 85°C	112-QFP 112-QFP	HD64F7144F50V-ND◆ HD64F7144FW50V-ND◆	18.11 19.43	16.90 18.13	15.70 16.84
Flash	256K	—	8K	8-ch. 10-bit	—	4 USART, Smart Card, 1 I^{2}C	WDT, MTU, CMT	106	50MHz/3 ~ 3.6V	-20°C ~ 75°C	144-QFP	HD64F7145F50V-ND◆	18.66	17.42	16.18
Flash	256K	—	8K	8-ch. 10-bit	—	4 USART, Smart Card, 1 I^{2}C	WDT, MTU, CMT	106	50MHz/3 ~ 3.6V	-40°C ~ 85°C	114-LQFP	HD64F7145FW50V-ND◆	19.62	18.32	17.01
Flash	256K	—	8K	12-ch. 10-bit	—	3 USART	WDT, MTU2, MTU2S, CMT	57	80MHz/4 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	80-LQFP 80-LQFP	DF71464RD80FPV-ND◆ DF71464RN80FPV-ND◆	18.00 18.00	16.80 16.80	15.60 15.60
Flash	256K	—	12K	—	—	3 USART, 1 SSU*, 1 CAN	WDT, MTU2, MTU2S, CMT	73	64MHz/3 ~ 3.6V	-40°C ~ 125°C	100-LQFP	DF71474AK64FPV-ND◆	58.35	54.46	50.57
Flash	256K	—	8K	12-ch. 10-bit	—	3 USART	WDT, MTU2, MTU2S, CMT	75	80MHz/4 ~ 5.5V	-20°C ~ 85°C	100-QFP	DF71491RN80FAV-ND◆	20.63	19.25	17.88
Flash	256K	—	8K	12-ch. 10-bit	—	3 USART	WDT, MTU2, MTU2S, CMT	75	80MHz/4 ~ 5.5V	-40°C ~ 85°C -20°C ~ 85°C	100-LQFP 100-LQFP	DF71494RD80FPV-ND◆ DF71494RN80FPV-ND◆	17.00 16.20	15.87 15.12	14.73 14.04
ROMless	—	—	16K	—	—	4 USART	—/2/—	78	125MHz/1.71 ~ 1.89V	-20°C ~ 85°C	176-LFBGA	DS76190W125BGV-ND◆	19.91	18.58	17.26

SH-2A Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	512K	—	32K	8-ch. 12-bit	2-ch. 8-bit	4 USART, 1 I^{2}C	WDT/MTU2/MTU2S/CMT	75	160MHz/1.4 ~ 1.6V	-40°C ~ 85°C	144-LQFP	DF72115D160FPV-ND◆	32.21	30.06	27.92
ROMless	—	—	128K	8-ch. 10-bit	2-ch. 8-bit	4 USART, IrDA, 1 I^{2}C	—/11/—	79	200MHz/1.15 ~ 1.35V	-20°C ~ 85°C	176-LQFP	DS72060W200FPV-ND◆	25.50	23.80	22.10
ROMless	—	—	32K	8-ch. 10-bit	2-ch. 8-bit	8 USART, 3 I^{2}C, 2CAN	2/6/—	123	100MHz/3 ~ 3.6V	-40°C ~ 85°C	176-LQFP	DS72611RP100FPV-ND◆	31.43	29.33	27.24
ROMless	—	—	32K	8-ch. 10-bit	2-ch. 8-bit	8 USART, 3 I^{2}C	2/6/—	123	120MHz/3 ~ 3.6V	-20°C ~ 70°C	176-LQFP	DS72612RB120FPV-ND◆	26.03	24.29	22.56
ROMless	—	—	32K	8-ch. 10-bit	2-ch. 8-bit	8 USART, 3 I^{2}C, 2CAN	2/6/—	123	120MHz/3 ~ 3.6V	-20°C ~ 70°C	176-LQFP	DS72613RB120FPV-ND◆	28.20	26.32	24.44

SH-3/SH-4/SH-4A Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
ROMless	—	—	16K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card, IrDA	—/1/3	96	167MHz/1.9 ~ 3.3V	-20°C ~ 75°C	240-BGA 208-LQFP	D6417709SBP167BV-ND◆ D6417709SF167BV-ND◆	29.54 26.82	27.57 25.04	25.60 23.25
ROMless	—	—	16K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card, IrDA	—/1/3	96	133MHz/1.8 ~ 3.3V	-20°C ~ 75°C	208-QFP 208-QFP	HD6417709AF133B-ND HD6417709AF133BV-ND◆	30.23 25.43	28.21 23.73	26.20 22.04
ROMless	—	—	16K	8-ch. 10-bit	2-ch. 8-bit	2 UART, Smart Card, IrDA	—/1/3	96	200MHz/2.0 ~ 3.3V	-20°C ~ 75°C	208-LQFP	D6417709SHF200BV-ND◆	31.32	29.24	27.15

◆ ***RoHS Compliant*** *SSU = SPI®

(Continued)

Microcontrollers

SuperH™ Family SH-3/SH-4/SH-4A Series *(Cont.)*

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
ROMless	—	—	148K	—	—	4 USART, 1 I^{2}C, Smart Card, 2 SSU, USB, IrDA	—/4/3	99	266MHz/1.2 ~ 3.3V	-20°C ~ 75°C	417-BGA	R8A77220AC266BAV-ND◆ ***NEW!***	36.75	34.30	31.85
ROMless	—	—	16K	4-ch. 10-bit	2-ch. 8-bit	I^{2}C, Smart Card, USB, 2 UART	—/9/3	110	133MHz/1.5 ~ 3.3V	-20°C ~ 70°C	256-BGA	HD6417720BP133CV-ND◆	32.55	30.38	28.21
ROMless	—	—	16K	6-ch. 10-bit	2-ch. 8-bit	2 USART, 1 UART, Smart Card, USB	—/1/3	104	160MHz/1.9 ~ 3.3V	-20°C ~ 75°C	240-BGA	HD6417727BP100CV-ND◆ ***NEW!***	39.30	36.68	34.06
ROMless	—	—	16K	8-ch. 10-bit	2-ch. 8-bit	1 UART, Smart Card, IrDA	—/1/3	96	133MHz/1.8 ~ 3.3V 133MHz/1.8 ~ 3.3V 200MHz/2.0 ~ 3.3V	-20°C ~ 75°C	208-LQFP 208-QFP 208-QFP	D6417729RF133BV-ND◆ HD6417729RF133B-ND D6417729RHF200BV-ND◆	26.82 26.82 34.41	25.04 25.04 32.12	23.25 23.25 29.83
ROMless	—	—	—	—	—	1 UART, Smart Card	—/—/5	39 29	167MHz/1.9 ~ 3.3V 240MHz/1.5 ~ 3.3V	-20°C ~ 75°C	208-QFP 256-BGA	HD6417750F167-ND D6417750RBP240DV-ND◆	45.30 46.35	42.28 43.26	39.26 40.17
ROMless	—	—	—	—	—	1 UART, Smart Card	—/—/5	29	240MHz/1.5 ~ 3.3V 240MHz/1.5 ~ 3.3V	-20°C ~ 75°C	256-BGA 208-QFP	HD6417750RBP240-ND HD6417750RF240-ND	38.63 34.86	36.05 32.54	33.48 30.22
ROMless	—	—	—	—	—	1 UART, Smart Card	—/—/5	39	200MHz/2.0 ~ 3.3V	-20°C ~ 75°C	256-BGA	D6417751RBP200DV-ND◆	49.22	45.94	42.66
ROMless	—	—	—	4-ch. 10-bit	—	3 UART, 2 I^{2}C, Smart Card, 2 CAN, USB	—/—/3	69	200MHz/2.0 ~ 3.3V	-20°C ~ 75°C	256-BGA	D6417760BP200ADV-ND◆	49.88	46.55	43.23
ROMless	—	—	16K	—	—	I^{2}C, SSU*, Ethernet/USB	—/—/6	77	324MHz/3.3V	-20°C ~ 85°C	404-BGA	R5S77640N300BG-ND	49.13	45.85	42.58
ROMless	—	—	16K	—	—	2 USART	—/4/6	75	400MHz/1.25 ~ 3.3V	-20°C ~ 75°C	449-BGA	R8A77800ANBGAV-ND◆ ***NEW!***	75.00	70.00	65.00
ROMless	—	—	128K	—	—	6 USART	—/—6	108	600MHz/1.1 ~ 3.3V	-20°C ~ 75°C	436-BGA	R8A77850ADBGV-ND◆ ***NEW!***	66.68	62.23	57.79
ROMless	—	—	128K	—	—	7 USART	—/—7	109	600MHz/1.1 ~ 3.3V	-20°C ~ 75°C	436-BGA	R8A77850ADBGV#RD0Z-ND◆ ***NEW!***	68.75	64.17	59.58

◆ ***RoHS Compliant*** *SSU = SPI®

Tools

Description	Digi-Key Part No.	Price Each
	Kits — Evaluation, Development, and Starter	
Development Evaluation Kit H8SX/1657	3DK1657-ND	270.00
Development Evaluation Kit H8S/2218	3DK2218-ND	418.25
Development Evaluation Kit H8S/2218	3DK2218-SS-ND	1020.00
Development Evaluation Kit H8/38076R	3DK38076-ND	267.68
Development Evaluation Kit H8/38086R	3DK38086R-ND	235.20
Development Evaluation Kit H8S/2215	EDK2215-ND	366.24
Development Evaluation Kit H8S/2215	EDK2215R-ND	403.20
Development Evaluation Kit H8S/2239	EDK2239-ND	366.24
Development Evaluation Kit H8S/2282	EDK2282-ND	366.24
Development Evaluation Kit H8S/2329	EDK2329-ND	319.20
Development Evaluation Kit H8S/2378	EDK2378-ND	504.00
Development Evaluation Kit H8S/2398	EDK2398-ND	504.00
Development Evaluation Kit H8S/2638	EDK2638-ND	504.00
Development Evaluation Kit H8/3069	EDK3069-ND	588.00
Development Evaluation Kit H8/3687	EDK3687-ND	341.04
Development Evaluation Kit SH7145	EDK7145-ND	403.20
Development Evaluation Kit H8S/2674	EDOSK2674-ND	261.80
Flash Programmer	FDM-ND	504.00
Development H8 HEW and E10A	HEWH8E10A-ND◆	1434.71
Development E10A-USB 14-pin Cable	HS0005PUU01H-ND	147.36
Development Evaluation Kit M16C/26A	QSK26A-ND	54.81
Development Evaluation Kit for M16C/62P	QSK62P-ND	54.81
Development Add-On Board RSK38347	R0K0APPBDB010BE-ND	252.00
Development RSK Add-On Board Ethernet and USB	R0K0APPBDB020BE-ND	546.00
Development Evaluation Kit M16C/26A	R0K33026AS000BE-ND	270.00
Development Evaluation Kit M16C/29	R0K330290S000BE-ND◆	270.00
Development Evaluation Kit M16C/6NK	R0K3306NKS001BE-ND ***NEW!***	252.00
Development Evaluation Kit M16C/62P	R0K33062PS000BE-ND◆	270.00
Development Evaluation Kit M32C/87	R0K330879S000BE-ND	270.00
Development Evaluation Kit M37542	R0K337542S000BR#ES-ND	252.00
Development Evaluation Kit H8S/2215R	R0K42215RS000BE-ND	252.00
Development Evaluation Kit H8/38099	R0K438099S000BE-ND	252.00
Development Evaluation Kit H8/38347	R0K438347S000BE-ND	252.00
Development Evaluation Kit R8C/1B	R0K5211B4S000BE-ND	252.00
Development Evaluation Kit R8C/13	R0K521134S000BE-ND	270.00
Development Evaluation Kit R8C/23	R0K521237S000BE-ND	270.00
Development Evaluation Kit R8C/25	R0K521256S000BE-ND	270.00
Development Evaluation Kit R8C/26-29	R0K521276S000BE-ND	252.00
Development Evaluation Kit H8SX/1582F	R0K561582S000BE-ND	270.00
Development Evaluation Kit H8S/1664F	R0K561664S000BE-ND	252.00
Development Evaluation Kit R8C/2D	R0K5212D8S000BE-ND	252.00
Development Evaluation Kit SH7086	R0K570865S000BE-ND	336.00
Development Evaluation Kit SH7124	R0K571242S000BE-ND	270.00
Development Evaluation Kit SH7203	R0K572030S000BE-ND	1554.00
Development Evaluation Kit CAN R8C/23	RCDK8C-ND	588.00
Demo Kit Zigbee 2.4GHZ	RZB-CC16C-ZDK-ND	1275.00
Development Evaluation Kit ZigBee 2.46Hz	RZB-CC28FC-BRD-ND◆	286.88
Demo Kit ZigBee ZMD 900MHz	RZB-ZMD16C-ZDK-ND	1190.00
Development Evaluation Kit H8/38024	SKP38024-ND	127.50
Development Evaluation Kit H8/38602R	SKP38602-ND	127.50
Development Evaluation Kit H8/36077	SKP36077-ND◆	154.56
Development Evaluation Kit H8S/2612	US2612EDK1-ND	366.24
Development Evaluation Kit H8S/2623	US2623EDK1-ND	693.84
Development Evaluation Kit H8/3068	US3068EDK1-ND	613.20
Development Evaluation Kit R8C/SPB	YR8CSPB-ND◆ ***NEW!***	94.53
	Software	
C Compiler H8 1 User	RTA-HEWH8-1U-ND	1363.25
C Compiler H8 1 User LAN	RTA-HEWH8-1UL-ND	1375.69
C Compiler M16C 1 User	RTA-HEWNC30-1U-ND	1363.25
C Compiler M16C 1 User LAN	RTA-HEWNC30-1UL-ND	1734.79
C Compiler M32C 1 User	RTA-HEWNC308-1U-ND	1363.25
C Compiler M32C 1 User LAN	RTA-HEWNC308-1UL-ND	1734.79
C Compiler SH 1 User	RTA-HEWSH-1U-ND	2693.25
C Compiler SH 1 User LAN	RTA-HEWSH-1UL-ND	2891.30
	Emulators	
Development Emulator Base Unit H8S/2100	E62140-ND	8658.30
Development Emulator Base Unit H8S/2300	E62339-ND	9904.50
Development Emulator Base Unit H8S/2633	E62633R-ND	9336.60
Development Emulator Base Unit H8S/2678	E62678R-ND	11299.50
Development Emulator Base Unit H8/3064	E63064B-ND	9647.82

Description	Digi-Key Part No.	Price Each
Development Emulator Base Unit H8/300L	E63800-ND	7734.22
On Chip Debug Emulator	HS0005KCU01H-ND	1470.00
On Chip Debug Emulator with Trace	HS0005KCU02H-ND	2430.00
On Chip Debug Emulator E10A Lite	HS0005KCU11H-ND	900.00
Emulator Base Unit H8S/2168	HS2168EPI61H-ND	8299.20
Emulator Base Unit H8S/2214	HS2214EPI62H-ND	7710.00
Emulator Base Unit H8/3664	HS3664EPI62H-ND	5910.00
Compact Emulator for M16C/26A/28/29	M30290T2-CPE-ND◆	1620.00
Compact Emulator for M16C/Tiny	M30290T2-CPE-HP-ND	1829.23
Compact Emulator for M16C/26A/28/29	M3062PT3-CPE-3-ND◆	1860.00
Emulator Base Unit M16C/60	M3062PT3-RPD-E-ND	3777.20
Compact Emulator for M16C/80	M30800T-CPE-ND◆	1995.00
Emulator Base Unit M16C Platform	PC7501-ND	6727.50
Compact Emulator for H8/3664	R0E436640CPE10-ND	2457.00
Compact Emulator for H8/TINY	R0E436640CPE20-ND	2457.00
Compact Emulator for M16C/62P	R0KZ1SNY003001R-ND	3593.13
Emulator Personality Kit H8/3664	R0E436640CPE00-ND	2715.00
Emulator Personality Kit R8C/13	R0E521000EPB00-ND	1215.00
Emulator Base E8A for H8 and M16C	R0E00008AKCE00-ND◆	175.00
Emulator Personality Kit R8C/13	R0E521134CPE00-ND	1935.00
Emulator Personality Kit R8C/10-13	R0E521134EPB00-ND	1725.00
Emulator Personality Kit R8C/17	R0E521174CPE00-ND	1935.00
Emulator for R8C/18/19/1A/1B	R0E521174CPE10-ND◆	1800.00
Emulator Personality Kit R8C/20-23	R0E521237CPE00-ND◆	1935.00
On Chip Debug Emulator	RTA-FOUSB-MON-ND	60.86
	Accessories	
Development Emulator Accessory	E6EIOEXT-ND	369.60
Emulator PCB Adapter 100-QFP	EHB2148Q100B-ND	628.50
Emulator PCB Adapter 100-QFP	EHB2238Q100B-ND	554.40
Emulator PCB Adapter 100-QFP	EHB2318Q100B-ND	586.32
Emulator PCB Adapter 128-QFP	EHB2328Q128-ND	925.20
Emulator PCB Adapter 128-QFP	EHB2633Q128-ND	1267.20
Emulator PCB Adaptor 100-QFP	EHB3064BQ100B-ND	520.80
Emulator PCB Adaptor 120-TQFP	HS1650ECN61H-ND	1226.40
Personality Kit H8SX/1650	HS1650EPH60H-ND	9456.30
Emulator PCB Adapter 100-QFP	HS2148ECH61HE-ND	1428.42
Emulator PCB Adapter 144-TQFP	HS2168ECN61H-ND	2766.40
Emulator PCB Adapter 64-QFP	HS2212ECH61H-ND	2912.70
Emulator PCB Adapter 112-LFBGA	HS2215ECB62H-ND	3370.86
Emulator PCB Adapter 120-TQFP	HS2215ECN61H-ND	2761.08
Emulator PCB Adapter 120 TQFP	HS2215RECN61H-ND◆	3120.00
Emulator PCB Adapter 100-QFP	HS2218ECN61H-ND	3120.00
Emulator PCB Adapter 100-QFP	HS2238ECH61H-ND	1436.40
Emulator PCB Adapter 112-LFBGA	HS2238RECB62H-ND	2154.60
Emulator PCB Adapter 144-QFP	HS2338ECH61H-ND	1436.40
Emulator PCB Adapter 144-QFP	HS2378ECH61H-ND	1822.10
Emulator Personality Kit H8S/2633	HS2633ECH61HE-ND	1428.42
Emulator PCB Adapter 64-QFP	HS36014ECH61H-ND	1436.40
Emulator PCB Adapter 48-QFP	HS36014ECH63H-ND	1436.40
Emulator Accessory H8/36024	HS36024EIO61H-ND	1290.00
Emulator PCB Adapter 80-QFP	HS36049ECH61H-ND	1620.00
Emulator PCB Adapter 64-QFP	HS3664ECH61H-ND	1436.40
Emulator PCB Adapter 64-QFP	HS3664ECH62H-ND	1436.40
Emulator PCB Adapter 48-QFP	HS3664ECH63H-ND	1436.40
Emulator PCB Adapter 48-QFP	HS3664ECH64H-ND	1436.40
Emulator PCB Adapter 64-QFP	HS3687ECH61H-ND	1620.00
Emulator PCB Adapter 64-QFP	HS3687ECH62H-ND	1620.00
Emulator Personality Kit M16C/26	M30260T-EPB-GP-ND	1374.24
Emulator Personality Kit M16C/26	M30262T-PTC-ND	570.00
Emulator Personality Kit M16C/28	M30290T-EPB-HP-ND	1374.24
Emulator Personality Kit M16C/28	M30291T-EPB-HP-ND	1374.24
Emulator Personality Kit M16C/62P	M3062PT-EPB-ND	1359.00
Emulator Probe M16C/6N	M306NKT-EPB-ND	1710.00
M16C/26 Socket Board (48-P6Q-A)	M3A-0286G01-ND	295.20
Emulator Accessory	M3T-100LCC-DMS-ND	108.00
Emulator PCB Adapter 100-QFP	M3T-DUMMY100S-ND	196.50
Emulator PCB Adapter 100-LQFP	M3T-F160-100NSD-ND	381.00
Emulator PCB Adapter 128-LQFP	M3T-F160-128NRD-ND	570.00
Emulator PCB Adapter 100-QFP	M3T-FLX-100NRB-ND	728.00
Emulator PCB Adapter 100-LQFP	M3T-FLX-100NSD-ND	780.00
Emulator PCB Adapter 144-LQFP	M3T-FLX-144NSD-ND	570.00
Emulator Accessory	M3T-FLX100-R-ND	196.00
Emulator Accessory	M3T-FLX100-T-ND	196.00
Development Evaluation PSU and Serial Cable	USBAG-PSU1-ND	23.25

◆ ***RoHS Compliant***

OPTICHRON

Analog-to-Digital Converter

Optichron's high performance 14-bit, 80 to 125 MSPS data converter modules in BGA form factor powered by Turbolinear™ technology offer ultra-high linearity for designs requiring a critical boost in ADC performance.

The advanced buffer-amplifier plus analog-to-digital converter modules not only provide system designers much-valued linearity but also a greater command of design trade-offs between speed, performance power dissipation and cost.

By eliminating a key performance constraint, nonlinear distortion in the buffer amp and ADC, our ultra-linear modules, powered by our Turbolinear technology, offer design engineers high signal fidelity at very high signal frequencies while increasing system speed and improving analog performance.

OM1400A-105

This is a high-speed and high-performance analog-to-digital converter module optimized to achieve an exceptionally high linearity when digitizing signals of very high IF.

The module has a sampling rate of 105 MSPS and is primarily built around Optichron's Linearizer with Turbolinear technology in addition to a 14-bit AD6645 analog-to-digital converter and AD8351 buffer amplifier, which provides a buffered, single-ended 50 ohm input.

The module output is a digitized signal optimized for up to 25 dB improvement in SFDR when sub-sampling signals in the 1st, 2nd, 3rd and 4th Nyquist zones.

Features:

• 14-bit resolution, 105 MSPS sampling rate • IF sampling to 205 MHz • 5 dBm full scale input power • Single-ended, 50 ohm analog input buffer • Selectable 2's complement or binary outputs • 3.3V CMOS compatible • Output clock for data output latching • Module power dissipation: 2.8W • BGA footprint

578-1001-ND Evaluation Board.. **$895.00**

CIRRUS LOGIC®

CODEC

CDB4270 Evaluation Board

Using the CDB4270 is an excellent way to evaluate the CS4270 CODEC. System timing for the I^{2}S, Left-Justified or Right-Justified audio data formats can be provided by the CS4270, by the CS8416, or by a device connected to the on-board DSP I/O header. The board may also be configured to accept external timing and data signals. RCA jacks are provided for the analog audio inputs and outputs. Digital S/PDIF transmit or receive data I/O is available via either RCA jacks or optical connectors. The Windows® GUI software provided allows for easy configuration of the CDB4270. The GUI software communicates with the board via a serial port connection to configure the CS4270 Control Port registers so that all features of the CS4270 can be evaluated.

Features:

• Header for External Configuration of CS4270 • Header for External DSP Serial Audio I/O • Pre-Defined Software Scripts • Demonstrates Recommended Layout

598-1002-ND (CDB4270).. **$405.00**

CDB4272 Evaluation Board

The CDB4272 demonstrates the CS4272 stereo CODEC. Evaluation requires an analog/digital signal source and analyzer, and power supplies. Optionally, a Windows® PC compatible computer may be used to evaluate the CS4272 in control port mode. System timing can be provided by the CS4272, by the CS8416 phase-locked to its S/PDIF input, by an I/O stake header or by an on-board oscillator.

RCA phone jacks and Balanced XLR jacks are provided for the CS4272 analog inputs. Digital data I/O is available via RCA phone or optical connectors to the CS8416 and CS8406. Microsoft Windows® software provides a GUI to make configuration of the board easy. The software communicates through the PC's parallel port to configure the hardware so that all features can be evaluated. The board may also be configured to accept external timing and data signals for operation in a user application during system development.

598-1004-ND (CDB4272).. **$405.00**

CDB4265 Evaluation Board

The CDB4265 evaluation board is an excellent means for evaluating the CS4265 CODEC. System timing for I^{2}S, Left-Justified and Right-Justified interface formats can be provided by the CS4265, the CS8416, or by a PCM I/O stake header with an external source connected. RCA phono jacks are provided for the CS4265 analog inputs and outputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS4265. The Windows® software provides a GUI to make configuration of the CDB4265 easy. The software communicates through the PC's serial port to configure the control port registers so that all features of the CS4265 can be evaluated. The board may also be configured to accept external timing and data signals for operation in a user application during system development.

Features:

• Coaxial and Optical Connections for CS4265 S/PDIF Transmitter Output • CS8416 S/PDIF Digital Audio Receiver • Header for external PCM serial audio I/O • 3.3 V Logic Interface • Pre-defined Software Scripts • Windows Compatible Software Interface

598-1001-ND (CDB4265).. **$540.00**

CDB4271 Evaluation Board

This is an excellent means for evaluating the CS4271 stereo CODEC. Evaluation requires an analog/digital signal source, and analyzer, and power supplies. Windows PC compatible computer may be used to evaluate the CS4271 in control port mode. System timing can be provided by the CS4271, by the CS8416 phase-locked to its S/PDIF input, by an I/O stake header or by an on-board oscillator. RCA phono jacks are provided for the CS4271 analog outputs and inputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS8406. Microsoft Windows® software provided a GUI to make configuration of the board easy. The software communicates through the PC's parallel port to configure the hardware so all features can be evaluated.

Features:

• Single-ended inputs • CS8406 S/PDIF digital audio transmitter • CS8416 S/PDIF digital audio receiver • Header for optional external configuration of CS4271 • Header for external DSP serial audio I/O • 3.3V ~ 5.0V Logic Interface

598-1003-ND (CDB4271).. **$405.00**

CDB6422 Evaluation Board

Provides an easy platform to evaluate the performance of the CS6422 echo cancelling IC in a target system. To facilitate evaluation, the board provides a wide selection of network interfacing options (analog telephone line, µ-law/a-law PCM data, or analog RCA jack). The analog interfaces support both fixed and variable gain options to allow for level-matching with target hardware. The board includes a keypad and a DTMF generator to enable dialing on standard analog telephone systems.

The board can operate from a single +12V power supply and can be used in a stand-alone configuration allowing for easy testing in car cellular hands-free applications.

598-1160-ND (CDB6422).. **$375.00**

CDB42448 Evaluation Board

An excellent means for evaluating the CS42448 CODEC. Evaluation requires an analog/digital signal source and analyzer, and power supplies. A Windows® PC compatible computer must be used to evaluate the CS42448.

RCA phono jacks are provided for the CS42448 analog inputs and outputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS8406.

The Windows software provides a GUI to make configuration of the CDB42448 easy. The software communicates through the PC's serial port to configure the control port registers so that all features of the CS42448 can be evaluated. The evaluation board may also be configured to accept external timing and data signals for operation in a user application during system development.

598-1151-ND (CDB42448).. **$540.00**

NEW! CDB48500 Evaluation Board

The kit is composed of the CDB48500 customer development board and the CDB USB MASTER Control Board. It provides a practical platform for emulating a typical multichannel audio system application. The CDB USB MASTER is a USB control board used to interface the host PC to the CDB48500 board, and convert GUI commands into the serial control protocol required for configuring the CS485XX DSP, (2) CS42448 CODECs, and CS8416 S/PDIF receiver ICs.

598-1284-ND (CDB48500-USB).. **$250.00**

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
AC97 CODEC – RoHS Compliant				
AC '97 with Headphone Amp, S/PDIF Transmitter, 20-Bit DAC, 18-Bit ADC, 48-LQFP	598-1181-ND	9.02	8.02	CS4202-JQZ
AC '97 for Portable Computing, Sample-Rate Converter, 20-Bit Stereo DAC, 18-Bit Stereo ADC, 48-LQFP	598-1182-ND	11.29	10.04	CS4205-KQZ
AC '97 2.1 Compatible Stereo Audio, 48-TQFP	598-1044-ND	7.61	6.77	CS4299-JQZ
Multi-Channel CODEC – RoHS Compliant				
102 dB, 2-Ch. AD, 105 dB 6-Ch. DA Surround 24-Bit, 192 kHz, 48-LQFP	598-1027-ND	9.50	8.45	CS42406-CQZ
110 dB 2-Ch. AD, 114 dB 6-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP, 6-Ch. with PLL	598-1028-ND	9.99	8.88	CS42416-CQZ
110 dB 2-Ch. AD, 114 dB 8-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP, 6-Ch. with PLL	598-1029-ND	12.80	11.38	CS42418-CQZ
114 dB 2-Ch. AD, 114 dB 8-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP with PLL	598-1031-ND	18.25	16.43	CS42428-CQZ
105 dB 6-Ch. AD, 108 dB 8-Ch. DA, 192 kHz, 52-MQFP, TDM	598-1032-ND	16.28	14.65	CS42438-CMZ
105 dB 6-Ch. Ad, 108 dB 8-Ch. DA, 192 kHz, 64-LQFP with Input MUX	598-1033-ND	17.60	15.84	CS42448-CQZ
105dB 4-Ch. 24Bit A/D, 108dB 8-Ch. 24Bit D/A, 192kHz, I2C and SPI, 64-LQFP	598-1183-ND	16.05	14.45	CS42888-CQZ
110 dB 2-Ch. AD, 114 dB 6-Ch. DA Surround 24- Bit, 192 kHz 64-LQFP 6-Ch. with S/PDIF Rx	598-1035-ND	11.88	10.56	CS42516-CQZ
110 dB 2-Ch. AD, 114 dB 8-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP 6-Ch. with S/PDIF Rx	598-1036-ND	13.50	12.15	CS42518-CQZ
114 dB 2-Ch. AD, 114 dB 6-Ch. AD Surround 24-Bit, 192 kHz, 64-LQFP with S/PDIF Rx	598-1037-ND	16.15	14.54	CS42526-CQZ
114 dB 2-Ch. AD, 114 dB 8-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP with S/PDIF Rx	598-1038-ND	20.00	18.00	CS42528-CQZ
Stereo Audio CODEC – RoHS Compliant				
105 dB, 24-Bit, 192 kHz, 48-LQFP with MUX, PGA and Asynchronous Support	598-1034-ND	8.67	7.71	CS4245-CQZ
105 dB, 24-Bit, 192 kHz, 32-QFN with S/PDIF Tx	598-1039-ND	8.42	7.49	CS4265-CNZ
105 dB, 24-Bit, 192 kHz, 24-TSSOP with 3.3V Operation	598-1040-5-ND	6.33	5.28	CS4270-CZZ
108 dB AD, 114 dB DA, 24-Bit, 192 kHz, 28-TSSOP with Oscillator	598-1041-5-ND	10.69	9.51	CS4271-CZZ
114 dB, 24-Bit, 192 kHz, 28-TSSOP with Oscillator	598-1042-5-ND	13.07	11.62	CS4272-CZZ

Analog-to-Digital Converters

CDB5381 Evaluation Board

The CDB5381 evaluation board is an excellent means for quickly evaluating the CS5381 24-bit, stereo A/D converter. Evaluation requires a digital signal analyzer, an analog signal source, and a power supply. Also included is a CS8406 digital audio interface transmitter which generates S/PDIF and EIAJ-340 compatible audio data. The digital audio data is available via RCA phono and optical connectors.

Features:
- Demonstrates recommended layout and grounding arrangements
- CS8406 generates S/PDIF and EIAJ-340 compatible digital audio

598-1008-ND (CDB5381) **$405.00**

CDB5451A Evaluation Board and Software

This is an inexpensive tool designed to evaluate the functionality/performance of the CS5451A 6-channel A/D Converter. Six terminal block connectors serve as inputs to the CS5451A's six analog input pairs. It includes an optional voltage reference source. A 4.096MHz crystal is provided as a source for the CS5451A XIN pin or an external clock source can be supplied by the user. Digital output data from the CS5451A is transferred to the user's PC via the included 25-pin parallel port cable.

The CDB5451A includes PC software, allowing the user to perform data capture (includes option for time domain analysis, histogram analysis and frequency domain analysis). The software also allows real-time RMS calculation/analysis to be performed simultaneously on all six channels.

Features:
- Direct Shunt Sensor and Current Transformer Interface for 3-Phase Power
- On-Board Voltage Reference
- On-Board Crystal for XIN

598-1009-ND (CDB5451A) **$525.94**

CDB5466 Evaluation Board

The CS5466 is a low cost power/energy IC with pulse output for power measurement solutions. The CDB5466U Evaluation Board is an inexpensive tool designed to evaluate the functionality and performance of the CS5466.

The evaluation board is designed to output energy-to-pulse conversions upon power up. It includes a microcontroller with a USB interface. The microcontroller and GUI (Graphical User Interface) provide a means to quickly register and evaluate the CS5466's energy-to pulse outputs.

Features:
- Active Energy-to-Pulse Conversions
- Simple Configuration Jumpers
- Multiple Supply Voltage Selections
- USB Communication with PC
- On-Board Voltage Reference

598-1011-ND (CDB5466U) **$628.39**

CDB5524 Evaluation Board and Software

The CSB5524 is an inexpensive tool designed to evaluate the performance of the CS5524 Analog-to-Digital Converters (ADC). The board includes a 2.5V voltage reference, an 80C51 microcontroller, an RS232 driver/receiver and firmware. The 8051 controls the serial communication between the evaluation board and the PC via the firmware, thus enabling quick and easy access to all of the CS5524 registers.

It also includes one installed ADC sample and software for Data Capture, Time Domain Analysis, Histogram Analysis and Frequency Domain Analysis.

Features:
- Direct Thermocouple Interface
- RS-232 to PC with Test Modes
- On-Board 80C51 Microcontroller
- On-Board Voltage Reference
- Lab Windows/CVI™ Evaluation Software
- On-Board Charge Pump Drive Circulatory

598-1012-ND (CDB5524) **$525.94**

CDB5529 Evaluation Board and Software

The CDB5529 is a tool designed to evaluate the performance of the CS5529 16-bit Analog-to-Digital Converter (ADC). The board includes an LT1019 voltage reference, an 80C51 microcontroller, an RS232 driver/receiver and firmware. The 8051 controls the serial communication between the evaluation board and the PC visa the firmware, enabling quick and easy access to all of the CS5529's registers.

The CDB5529 also includes software for Time Domain Analysis, Histogram Analysis and Frequency Domain Analysis.

Features:
- RS-232 Serial Communication with PC
- On-Board 80C51 Microcontroller
- On-Board Voltage Reference
- Lab Windows/CVI™ Evaluation Software
- Integrated RS-232 Test Mode

598-1015-ND (CDB5529) **$525.94**

CDB5534 Evaluation Board and Software

The CDB5534U is a tool designed to evaluate the functionality and performance of CS5534. The board includes a C8051F320 microcontroller with a USB interface. The microcontroller controls the serial communication between the evaluation board and the PC via the firmware, enabling quick and easy access to all of the CS5534's registers and functions.

This includes software for Data Capture, Time Domain Analysis, Histogram Analysis and Frequency Domain Analysis.

Features:
- USB Communication with PC
- On-Board Microcontroller
- On-Board Voltage Reference
- Evaluation Software
- Interface Header for External Microcontroller

598-1016-ND (CDB5534U) **$628.39**

CDB5571 and CDK5571 Evaluation Boards

A versatile tool designed for evaluating the functionality and performance of the CS5571 ADC (Analog-to-Digital Converter). The SPI serial port on the CDB5571 evaluation board is configured in Master mode and will start transmitting data after power-up upon reset. This evaluation board is designed to connect to your data capture system or will interface to the CapturePlus II data acquisition system available from Cirrus Logic.

The CS5571 delta-sigma ADC produces fully settled conversions to full specified accuracy at 100kSps. This ability to produce fully settled conversions for every sample makes it suitable for converting multiplexed input signals. To help evaluate this feature, includes two single-ended analog inputs multiplexed into the CS5571. The multiplexer can be switched at the CS5571 ADC sample speed and the ADC will produce fully settled conversion data for each input channel.

All evaluation board functionality for evaluating the CS5571 ADC is accessed through the connector interface and board-level options.

598-1275-ND (CDB5571) — ***RoHS Compliant*** $135.07
598-1279-ND ***NEW!*** (CDK5571) – CDB5571 with CapturePlus II System — ***RoHS Compliant*** ... $491.55

CDB5560 and CDK5560 Evaluation Boards

A versatile tool designed for evaluating the functionality and performance of the CS5560 ADC (Analog-to-Digital Converter). The SPI serial port on the CDB5560 evaluation board is configured in Master mode and will start transmitting data after power-up upon reset. This evaluation board is designed to connect to your data capture system or will interface to the CapturePlus II data acquisition system available from Cirrus Logic. The CS5560 delta-sigma ADC produces fully settled conversions to full specified accuracy at 50kSps. All evaluation board functionality for evaluating the CS5560 ADC is accessed through the connector interface and board-level options.

598-1273-ND (CDB5560) — ***RoHS Compliant*** **$135.07**
598-1277-ND ***NEW!*** (CDK5560) – CDB5560 with CapturePlus II System — ***RoHS Compliant*** ... **$491.55**

CDB5343 Evaluation Board

An excellent means for quickly evaluating the CS5343 24-bit, stereo A/D converter. Evaluation requires a digital signal analyzer, an analog signal source and a power supply.

Also in an CS8406 digital audio interface transmitter that generates S/PDIF and EIAJ-340-compatible audio data. The digital audio data is available via RCA phone and optical connectors.

598-1156-ND (CDB5343) **$405.00**

CDB5530U Evaluation Board

An inexpensive tool designed to evaluate the functionality and performance of the CS5530. The CS5530 data sheet should be read and consulted when using the CDB5530U evaluation board.

The evaluation board includes a C8051F320 microcontroller with a USB interface. The microcontroller controls the serial communication between the evaluation board and the PC via the firmware, enabling quick and easy access to all of the CS5530's registers and functions.

Includes software for data capture, time domain analysis, histogram analysis and frequency domain analysis.

598-1158-ND (CDB5530U) **$628.39**

CDB5368 Evaluation Board

An excellent means for quickly evaluating the CS5368 24-bit, 192 kHz A/D converter. Evaluation requires only a digital signal analyzer, an analog signal source and a power supply.

On-board DIP switches configure the CS5368 in Stand-Alone mode, avoiding the need for a PC.

For Software-based device configuration, the Control Port mode is used by attaching a host PC to the Evaluation Board and executing the provided FlexGUI software.

598-1157-ND (CDB5368) **$472.50**

CDB5532U Evaluation Board

An inexpensive tool designed to evaluate the functionality and performance of the CS5532. The CS5532 data sheet should be read and consulted when using the CDB5532U evaluation board.

The evaluation board includes a C8051F320 microcontroller with a USB interface. The microcontroller controls the serial communication between the evaluation board and the PC via the firmware, enabling quick and easy access to all of the CS5532's registers and functions.

Includes software for data capture, time domain analysis, histogram analysis and frequency domain analysis.

598-1159-ND (CDB5532U) **$628.39**

Description	**Digi-Key Part No.**	**Price Each**		**Cirrus Logic Part No.**
		1	**25**	
Audio Analog to Digital Converters — RoHS Compliant				
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 101dB dynamic range, sample rates to 200 kHz, 16-TSSOP	598-1081-5-ND	8.67	7.71	CS5340-CZZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 105dB dynamic range, sample rates to 200 kHz, 16-TSSOP	598-1082-5-ND	9.99	8.88	CS5341-CZZ
Stereo , 6:1 input multiplexer, 24-bit conversion, 104dB dynamic range, sample rates to 192 kHz, line/mic PGA, 48-LQFP	598-1083-ND	8.07	7.18	CS5345-CQZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 108dB dynamic range, sample rates to 192 kHz, 24-TSSOP	598-1085-5-ND	11.77	10.47	CS5351-KZZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 192 kHz, 24-SOIC	598-1086-5-ND	13.20	11.88	CS5361-KSZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 192 kHz, 24-TSSOP	598-1087-5-ND	13.20	11.88	CS5361-KZZ
4-channel, multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 216 kHz, I2C or SPI control, 48-LQFP	598-1088-ND	21.58	19.42	CS5364-CQZ
6-channel, multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 216 kHz, I2C or SPI control, 48-LQFP	598-1089-ND	23.18	19.57	CS5366-CQZ
8-channel, multi-bit Delta-Sigma, 24-bit conversion, 114dB dynamic range, sample rates to 216 kHz, I2C or SPI control, 48-LQFP	598-1090-ND	27.81	23.49	CS5368-CQZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 120dB dynamic range, sample rates to 216 kHz, 24-SOIC	598-1091-5-ND	30.69	25.92	CS5381-KSZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 120dB dynamic range, sample rates to 216 kHz, 24-TSSOP	598-1092-5-ND	30.69	25.92	CS5381-KZZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 98dB dynamic range, sample rates to 108 kHz, I2C control, 10-TSSOP	598-1189-ND	5.28	4.40	CS5343-CZZ
2-channel, multi-bit Delta-Sigma, 24-bit conversion, 98dB dynamic range, sample rates to 108 kHz, left-justified format, 10-TSSOP	598-1190-ND	5.28	4.40	CS5344-CZZ
Industrial Analog to Digital Converters — RoHS Compliant				
True 12-bit precision, monolithic CMOS, 7.20uS conversion time, excellent linearity, up to 100kSps throughput rate, 44-PLCC	598-1074-5-ND	48.72	43.85	CS5012A-BL7Z
True 14-bit precision, monolithic CMOS, 14.25uS conversion time, 56kSps throughput rate, 44-PLCC	598-1075-5-ND	88.98	77.72	CS5014-BL14Z
True 16-bit precision, monolithic CMOS, 16.25uS conversion time, excellent linearity, up to 50kSps throughput rate, 44-PLCC	598-1076-5-ND	141.07	123.23	CS5016-BL16Z
16-bit monolithic CMOS, 2-channel input multiplexer, 8uS conversion time, 100kSps throughput, flexible serial output port, 28-PLCC	598-1077-5-ND	84.64	73.94	CS5101A-BL8Z
16-bit monolithic CMOS, 2-channel input multiplexer, 40uS conversion time, 20kSps throughput, flexible serial output port, 28-PLCC	598-1078-5-ND	88.26	74.32	CS5101A-JL8Z
16-bit monolithic CMOS, 2-channel input multiplexer, 8uS conversion time, 100kSps throughput, flexible serial output port, 28-PLCC	598-1079-5-ND	78.58	66.18	CS5102A-BLZ

(Continued)

Analog-to-Digital Converters *(Cont.)*

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
16-bit monolithic CMOS, 2-channel input multiplexer, 40uS conversion time, 20kSps throughput, flexible serial output port, 28-PLCC	598-1080-5-ND	68.89	58.02	CS5102A-JLZ
16-bit, 100Sps update rate, very low power consumption, single channel differential input, flexible serial output port, 20-SOIC	598-1098-5-ND	25.31	21.38	CS5507-ASZ
20-bit, 100Sps update rate, very low power consumption, single channel differential input, flexible serial output port, 20-SOIC	598-1099-5-ND	27.50	23.22	CS5508-BSZ
16-bit Delta-Sigma, differential input, up to 200Sps output word rate, ultra low power consumption, 16-SOIC	598-1100-5-ND	19.83	17.85	CS5509-ASZ
Bridge transducer, 16-bit Delta-Sigma, up to 60Sps output word rate, dynamic excitation option, low power consumption, 24-SOIC	598-1101-5-ND	35.69	30.14	CS5516-ASZ
Bridge transducer, 20-bit Delta-Sigma, up to 60Sps output word rate, dynamic excitation option, low power consumption, 24-SOIC	598-1102-5-ND	40.79	34.45	CS5520-BSZ
16-bit Delta-Sigma, 2-channel, scalable input span, three-wire serial interface port, eight selectable word rates up to 617Sps, single 5V supply, 20-SSOP	598-1103-5-ND	9.07	8.07	CS5521-ASZ
24-bit Delta-Sigma, 2-channel, scalable input span, three-wire serial interface port, eight selectable word rates up to 617Sps, single 5V supply, 20-SSOP	598-1104-5-ND	10.75	9.56	CS5522-ASZ
16-bit Delta-Sigma, 4-channel, scalable input span, three-wire serial interface port, eight selectable word rates up to 617Sps, single 5V supply, 24-SSOP	598-1105-5-ND	9.53	8.48	CS5523-ASZ
24-bit Delta-Sigma, 4-channel, scalable input span, three-wire serial interface port, eight selectable word rates up to 617Sps, single 5V supply, 24-SSOP	598-1106-5-ND	11.21	9.96	CS5524-ASZ
16-bit Delta-Sigma, single channel, multi-range, 4-bit output latch, three-wire serial interface, programmable output word rates, single +5V supply, 20-SSOP	598-1107-5-ND	8.59	7.64	CS5525-ASZ
20-bit Delta-Sigma, single channel, multi-range, 4-bit output latch, three-wire serial interface, programmable output word rates, single +5V supply, 20-SSOP	598-1108-5-ND	10.26	9.12	CS5526-BSZ
24-bit Delta-Sigma, 8-channel, scalable input span, three-wire serial interface port, eight selectable word rates up to 617Sps, single 5V supply, 24-SSOP	598-1109-5-ND	11.72	10.42	CS5528-ASZ
16-bit Delta-Sigma, single channel, eight digital filters, 6-bit output latch, three-wire serial interface port, single conversion settling time, single or dual supplies, 20-SSOP	598-1110-5-ND	8.86	7.88	CS5529-ASZ
24-bit Delta-Sigma, single channel, digital gain scaling up to 40X, three-wire serial interface port, selectable word rates, high dynamic range, 20-SSOP	598-1198-5-ND	9.05	8.04	CS5530-CSZ
24-bit Delta-Sigma, single channel, digital gain scaling up to 40X, three-wire serial interface port, selectable word rates, high dynamic range, 20-SSOP	598-1283-5-ND	9.53	8.48	CS-5530-ISZ
16-bit Delta-Sigma, 2-channel differential multiplexer, ultra-low noise PGIA, three-wire serial interface, selectable word rates, 20-SSOP	598-1111-5-ND	12.91	11.48	CS5531-ASZ
24-bit Delta-Sigma, 2-channel differential multiplexer, ultra-low noise PGIA, three-wire serial interface, selectable word rates, 20-SSOP	598-1112-5-ND	13.95	12.56	CS5532-ASZ
24-bit Delta-Sigma, 2-channel differential multiplexer, ultra-low noise PGIA, three-wire serial interface, selectable word rates, 20-SSOP	598-1113-5-ND	18.68	16.81	CS5532-BSZ
16-bit Delta-Sigma, 4-channel differential multiplexer, ultra-low noise PGIA, three-wire serial interface, selectable word rates, 24-SSOP	598-1114-5-ND	13.31	11.84	CS5533-ASZ
24-bit Delta-Sigma, 4-channel differential multiplexer, ultra-low noise PGIA, three-wire serial interface, selectable word rates, 24-SSOP	598-1115-5-ND	14.55	13.10	CS5534-ASZ
24-bit Delta-Sigma, 4-channel differential multiplexer, ultra-low noise PGIA, three-wire serial interface, selectable word rates, 24-SSOP	598-1116-5-ND	19.25	17.33	CS5534-BSZ
24-bit Delta-Sigma, 2-channel differential multiplexer, fixed digital filter, simple serial interface, single +3.0V supply, 16-SSOP	598-1117-5-ND	9.94	8.84	CS5540-ASZ
Sigma-Delta, 2-channel, adjustable input range, three-wire serial interface, on-chip 2.5V reference, 24-SSOP	598-1119-5-ND	6.48	5.40	CS5550-ISZ
24-bit Delta-Sigma, differential analog input, high throughput, 20uS conversion time, 110dB signal to noise, 24-SSOP	598-1265-5-ND	19.83	17.85	CS5560-ISZ
24-bit Delta-Sigma, single-channel, differential analog input, 200uS conversion time, three-wire serial interface, 24-SSOP	598-1269-5-ND	15.40	13.86	CS5566-ISZ
16-bit Delta-Sigma, single-channel, single-ended analog input, 10uS conversion time, 3 or 4-wire serial interface, 24-SSOP	598-1266-5-ND	22.80	20.52	CS5571-ISZ

Digital-to-Analog Converters

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
RoHS Compliant				
6-24-bit Delta-Sigma, stereo, up to 96 kHz sample rate, 96dB dynamic range, I2S control, filtered line-level outputs, single +5V supply, 8-SOIC	598-1046-5-ND	3.54	2.95	CS4334-KSZ
16-24-bit Delta-Sigma, stereo, up to 96 kHz sample rate, 96dB dynamic range, left justified control, filtered line-level outputs, single +5V supply, 8-SOIC	598-1047-5-ND	3.54	2.95	CS4335-KSZ
16-bit Delta-Sigma, stereo, up to 96 kHz sample rate, 96dB dynamic range, right justified control, filtered line-level outputs, single +5V supply, 8-SOIC	598-1048-5-ND	3.54	2.95	CS4338-KSZ
24-bit Delta-Sigma, stereo, up to 96 kHz sample rate, 101dB dynamic range, Popguard Technology, Not recommended for new designs, 16-TSSOP	598-1049-5-ND	5.16	4.30	CS4340-CZZ
24-bit Delta-Sigma, stereo, up to 96 kHz sample rate, digital volume control, 101dB dynamic range, on-chip digital de-emphasis, Popguard Technology, 16-TSSOP	598-1050-5-ND	5.67	4.73	CS4341-CZZ

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
16-bit Delta-Sigma, single-channel, single-ended analog, input analog input, 5uS conversion time, 3 or 4-wire serial interface, 24-SSOP	598-1272-5-ND	15.40	13.86	CS5581-ISZ
24-bit Delta-Sigma, stereo, up to 192 kHz sample rate, 105dB dynamic range, I2S control, filtered line-level outputs, on-chip digital de-emphasis, 10-TSSOP	598-1051-5-ND	3.30	2.75	CS4344-CZZ
24-bit Delta-Sigma, stereo, up to 192 kHz sample rate, 105dB dynamic range, left justified control, filtered line-level outputs, on-chip digital de-emphasis, 10-TSSOP	598-1052-5-ND	3.30	2.75	CS4345-CZZ
24-bit Delta-Sigma, stereo, up to 192 kHz sample rate, 105dB dynamic range, right justified control, filtered line-level outputs, on-chip digital de-emphasis, 10-TSSOP	598-1053-5-ND	3.30	2.75	CS4346-CZZ
16-bit Delta-Sigma, stereo, up to 192 kHz sample rate, 105dB dynamic range, right justified control, filtered line-level outputs, on-chip digital de-emphasis, 10-TSSOP	598-1054-5-ND	3.30	2.75	CS4348-CZZ
24-bit Delta-Sigma, stereo, up to 192 kHz sample rate, 112dB dynamic range, on-chip 2Vrms line-level driver, digital volume control, Popguard Technology, 20-TSSOP	598-1055-5-ND	6.30	5.25	CS4351-CZZ
24-bit Delta-Sigme, 6-channel, up to 192 kHz sample rate, 102dB dynamic range, digital volume control, digital de-emphasis, Popguard Technology, 28-TSSOP	598-1056-5-ND	13.18	11.72	CS4360-DZZ
24-bit Delta-Sigma, 6-channel, up to 192 kHz sample rate, 103dB dynamic range, output mute control, digital de-emphasis, filtered line-level outputs, Popguard Technology, 20-TSSOP	598-1057-5-ND	6.86	6.10	CS4361-CZZ
24-bit Delta-Sigma, 6-channel, up to 192 kHz sample rate, 114dB dynamic range, direct stream digital mode, volume control, matched PCM and DSD Analog output levels, 48-LQFP	598-1058-ND	13.10	11.79	CS4362A-CQZ
24-bit Delta-Sigma, 6-channel, up to 192 kHz sample rate, 103dB dynamic range, direct stream digital mode, volume control, TDM serial interface, ATAPI channel mixing, 48-LQFP	598-1059-ND	13.07	11.62	CS4364-CQZ
24-bit Delta-Sigme, 6-channel, up to 192 kHz sample rate, 114dB dynamic range, direct stream digital mode, volume control, matched PCM and DSD analog audio outputs, 48-LQFP	598-1060-ND	13.43	12.09	CS4365-CQZ
24-bit Delta-Sigma, 8-channel, up to 192 kHz sample rate, 103dB dynamic range, direct stream digital mode, volume control, TDM serial interface, ATAPI channel mixing, 48-LQFP	598-1062-ND	14.30	12.87	CS4384-CQZ
24-bit Delta-Sigme, 8-channel, up to 192 kHz sample rate, 114dB dynamic range, direct stream digital mode, volume control, matched PCM and DSD analog audio outputs, 48-LQFP	598-1063-ND	18.83	16.95	CS4385-CQZ
24-bit Delta-Sigma, stereo, up to 192 kHz sample rate, 108dB dynamic range, Not recommened for new designs, 20-TSSOP	598-1064-5-ND	7.24	6.44	CS4391A-KZZ
24-bit Delta-Sigma, stereo, up to 192 kHz sample rate, 114dB dynamic range, direct stream digital mode, volume control, single +5V supply, ATAPI mixing functions, 20-TSSOP	598-1065-5-ND	10.69	9.51	CS4392-KZZ
Up to 24-bit Delta-Sigma, up to 192 kHz sample rate, PCM and DSD inputs, 120dB dynamic range, external muting control, volume control, stand-alone or I2C/SPI control, 28-TSSOP	598-1067-5-ND	12.96	11.52	CS4398-CZZ
Up to 24-bit Delta-Sigma, up to 192 kHz sample rate, 109dB dynamic range, integrated PLL, muting control for individual channels, digital volume control, I2C/SPI control, ATAPI mixing, 24-TSSOP	598-1184-5-ND	7.43	6.60	CS4350-DZZ
Up to 24-bit Delta-Sigma, up to 192 kHz sample rate, 109dB dynamic range, integrated PLL, muting control for individual channels, digital volume control, I2C/SPI control, ATAPI mixing, 24-TSSOP	598-1185-5-ND	6.87	5.73	CS4350-CZZ
24-bit Delta-Sigma, up to 192 kHz sample rate, 106dB (A-wt) dynamic range, integrated line driver, 2Vrms line-level output, stereo mute, analog low-pass filter, Popguard Technology, 20-TSSOP	598-1186-5-ND	3.84	3.20	CS4352-CZZ

CDB4344 Evaluation Board

This board is an excellent means for quickly evaluating the CS4344 24-bit, 10 pin stereo D/A Converter. The CS8416 digital audio receiver IC provides the system timing necessary to operate the Digital-to-Analog converter and will accept S/PDIF and EIAJ-340 compatible audio data. The board may also be configured to accept external timing and data signals for operation in a user application during system development.

Features: • Demonstrates recommended layout and grounding arrangements • Header for external PCM audio

598-1006-ND (CDB4344) **$337.50**

CDB4351 Evaluation Board

An excellent means for quickly evaluating the CS4351 24-bit, high performance stereo D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, a PC for controlling the CS4351 (stand alone operation is also available) and a power supply. Analog line-level outputs are provided via RCA phono jacks.

The CS8416 digital audio receiver IC provides the system timing necessary to operate the Digital-to-Analog converter and will accept S/PDIF and EIAJ-340-compatible audio data. The evaluation board may also be configured to accept external timing and data signals for operation in a user application during system development.

598-1152-ND (CDB4351) **$405.00**

(Continued)

Digital-to-Analog Converters *(Cont.)*

CDB4361 Evaluation Board

An excellent means for quickly evaluating the CS4361 24-bit, 20-pin, 6-channel D/A converter. Evaluation requires an analog signal analyzer, a digital signal source and a power supply. Analog line-level outputs are provided via RCA phono jacks.

The CS8416 digital audio receiver IC provides the system timing necessary to operate the Digital-to-Analog converter and will accept S/PDIF and EIAJ-340-compatible audio data. The evaluation board may also be configured to accept external timing and data signals for operation in a user application during system development.

598-1153-ND (CDB4361) **$472.50**

CDB4385 Evaluation Board

An excellent means for quickly evaluating the CS4385 24-bit, 48-pin, 8-channel D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, a PC for controlling the CS4385 (only required for control port mode) and a power supply. Analog line-level outputs are provided via RCA phono jacks.

The CS8416 digital audio receiver IC provides the system timing necessary to operate the Digital-to-Analog converter and will accept S/PDIF, and EIAJ-340-compatible audio data. The evaluation board may also be configured to accept external timing and data signals for operation in a user application during system development.

598-1154-ND (CDB4385) **$472.50**

CDB4398 Evaluation Board

An excellent means for quickly evaluating the CS4398 24-bit, high performance stereo D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, a PC for controlling the CS4398 (stand alone operation is also available) and a power supply. Analog line-level outputs are provided via RCA phono jacks and balanced XLR.

The CS8414 digital audio receiver IC provides the system timing necessary to operate the Digital-to-Analog converter and will accept S/PDIF, and EIAJ-340-compatible audio data. The evaluation board may also be configured to accept external timing and data signals for operation in a user application during system development.

598-1155-ND (CDB4398) **$472.50**

Portable Audio Converters

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Low Power, Stereo CODEC with Headphone Amp, 32-QFP	598-1045-ND	7.17	5.98	CS42L51-CNZ
98dB, 96kHz, Stereo AD, 24-Bit, Low Power, 32-QFN	598-1191-ND	6.48	5.40	CS53L21-CNZ
Stereo DAC, 96kHz, 98dB, 24-Bit, Low Power, 32-QFN	598-1187-ND	5.76	4.80	CS43L21-CNZ

CDB42L51 Evaluation Board

The CDB42L51 evaluation board is an excellent means for evaluating the CS42L51 CODEC. System timing can be provided by the CS8415, by the CS42L51 with supplied master clock, or b and I/O stake header with a DSP connected. RCA phono jacks are provided for the CS42L51 analog inputs and outputs. 1/18th inch jacks are also available for microphone input and headphone output. Digital data I/O is available via RCA phono or optical connectors. The Windows® software provides a GUI to make configuration of the CDB42L51 easy. The evaluation board may also be configured to accept external timing and data signals for operation in a user application during system development.

Features:

• MUX's Analog Output • 8 ~ 96 kHz S/PDIF Interface • I/O Stake Headers • 1.8 ~ 3.3V Logic Interface • Layout and Grounding Recommendations

598-1005-ND (CDB42L51) **$742.50**

CobraNet™

The CobraNet solution leverages the rapid developments in the computer networking industry to provide an increasingly cost effective connectivity solution for audio professionals worldwide. It's based on the highly integrated CS1810xx CobraNet Silicon Series, providing an interface in the form of a compact, low power, low cost module. Featuring 8 or 16 simultaneous channels of digital audio input and output, the CM-2 is designed to be easily integrated into a wide variety of audio products such as signal processors, mixers, amplifiers, ceiling speakers and self-powered loudspeakers.

Features:

• 100BASE-TX Ethernet Interface - 100Mbps, full-duplex Ethernet, fully compliant with IEEE 802.3u Standard • Secondary 100BASE-TX Ethernet Interface - redundant network connection for fault tolerance • Quad Synchronous Serial Output Ports - capable of supplying and receiving 8 or 6 channels • TFTP Support - firmware updates over the network • Low Latency - selectable 1.33, 2.66 or 5.33ms across network • Status LEDs - Link, Activity and CobraNet conductor status for each Ethernet jack • Ability to send audio from any CobraNet interface to any other - unlimited addressing, unlimited capacity

598-1007-ND Evaluation Board CS496122 .... **$2475.00**
598-1023-ND Evaluation Board for CS44600.. **$786.38**

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Module CobraNet 1810 CM2 MT	598-1020-ND	141.75	—	CPB181022-CM2-MT
Module CobraNet 4961 CM2 FB	598-1021-ND	157.50	—	CPB496122-CM2-FB
Module CobraNet 4961 CM2 MT	598-1022-ND	157.50	—	CPB496122-CM2-MT
2x2-Channel, 144-LQFP	598-1024-ND◆	24.93	21.06	CS181002-CQZ
8x8-Channel, 144-LQFP	598-1025-ND◆	26.17	22.10	CS181012-CQZ
16x16-Channel, 144-LQFP	598-1026-ND◆	27.43	23.17	CS181022-CQZ
Audio DSP CobraNet 144-LQFP	598-1071-ND◆	28.55	24.12	CS496102-CQZ
Audio DSP CobraNet 144-LQFP	598-1072-ND◆	29.99	25.33	CS496112-CQZ
Audio DSP CobraNet 144-LQFP	598-1073-ND◆	32.09	27.10	CS496122-CQZ

◆ ***RoHS Compliant***

CDB8952 Evaluation Board

Provides a platform for evaluating the CS8952 10 Base-T and 100 Base-X Transceiver. It is designed to plug into a transceiver test box via a standard 40-pin MII connector. System designers can use the CDB8952 to fully exercise the CS8952 without the time and expense of custom prototyping. Though the CBD8952 is configured from the factory for 5V operation with the power supplied from the test box, it may also be configured for 3.3V MII systems. The CDB8952 may be optionally configured with a fiber interface module for 100Base-FX testing.

598-1162-ND (CDB8952T).. **$850.99**

CDB8130 Evaluation Board

Fast and easy evaluation of the CS8130 infrared transceiver. The board contains an RS-232 level shifter and DB-9 serial connector to allow easy interfacing to a standard PC serial (COM) port. The board is shipped with a complete set of diagnostic and test software, as well as the Infrared Data Association Link Access Protocol (IrLAP) reference code.

598-1161-ND (CDB8130) **$850.99**

Development Kits for ARM® Processors

Description	Digi-Key Part No.	Price Each	Cirrus Logic Part No.
Engineering Development Kit for EP9302 Processor	598-1132-ND	312.50	EDB9302A-Z
Embedded Processor Development System for EP9312/EP9315	598-1144-ND	312.50	EDB9315A-Z
Embedded Processor Development System for EP9307	598-1133-ND	312.50	EDB9307A-Z
ERD-9307IPR Internet Protocol Radio	598-1281-ND	628.39	ERD-9307IPR
EDP7312 Development Kit	598-1209-ND	625.00	EDB7312

ARM® Processors

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
ARM720T Processor	598-1134-ND◆	20.93	18.84	EP7312-CVZ
ARM720T Processor	598-1135-ND◆	24.19	20.43	EP7312-IVZ
166MHz ARM920T Processor	598-1136-ND◆	21.40	19.26	EP9301-CQZ
200MHz ARM9 Processor	598-1137-ND◆	23.55	21.20	EP9302-CQZ
200MHz ARM9 Processor	598-1138-ND◆	28.62	24.17	EP9307-CRZ
200MHz ARM9 Processor	598-1139-ND◆	39.74	33.56	EP9315-CBZ
ARM720T Processor	598-1210-ND	18.83	16.95	EP7309-CB
ARM720T Processor	598-1211-ND◆	19.10	17.19	EP7309-CBZ
ARM720T Processor	598-1213-ND	16.93	15.24	EP7309-CV
ARM720T Processor	598-1214-ND◆	17.35	15.62	EP7309-CVZ
ARM720T Processor	598-1220-ND	20.80	18.72	EP7311-CB
ARM720T Processor	598-1224-ND	18.73	16.86	EP7311-CV
ARM720T Processor	598-1225-ND	22.78	20.50	EP7311-CV-90
ARM720T Processor	598-1226-ND◆	24.35	20.56	EP7311-IB
ARM720T Processor	598-1230-ND	24.33	21.90	EP7311-IV
ARM720T Processor	598-1232-ND	22.80	20.52	EP7312-CB
ARM720T Processor	598-1234-ND◆	23.05	20.75	EP7312-CBZ
ARM720T Processor	598-1235-ND	23.08	20.77	EP7312-CR
ARM720T Processor	598-1237-ND	20.50	18.45	EP7312-CV
ARM720T Processor	598-1238-ND	24.93	22.44	EP7312-CV-90
ARM720T Processor	598-1239-ND◆	22.82	19.27	EP7312-CVZ-90
ARM720T Processor	598-1240-ND	26.69	22.54	EP7312-IB
ARM720T Processor	598-1242-ND◆	26.91	22.73	EP7312-IBZ
ARM720T Processor	598-1244-ND	31.75	26.81	EP7312-IR-90
ARM720T Processor	598-1245-ND	23.96	20.24	EP7312-IV
ARM720T Processor	598-1246-ND	29.14	24.61	EP7312-IV-90
ARM720T Processor	598-1247-ND◆	24.20	21.78	EP7312M-CBZ
166MHz ARM920T Processor	598-1248-ND	21.28	19.15	EP9301-CQ
166MHz ARM920T Processor	598-1249-ND	23.94	20.22	EP9301-IQ
166MHz ARM920T Processor	598-1250-ND◆	24.08	21.67	EP9301-IQZ
200MHz ARM9 Processor	598-1253-ND◆	23.83	20.13	EP9302-IQZ
200MHz ARM9 Processor	598-1254-ND	28.62	24.17	EP9307-CR
200MHz ARM9 Processor	598-1255-ND	33.21	28.05	EP9307-IR
200MHz ARM9 Processor	598-1256-ND◆	33.21	28.05	EP9307-IRZ
200MHz ARM9 Processor	598-1257-ND	35.84	30.27	EP9312-CB
200MHz ARM9 Processor	598-1258-ND◆	35.84	30.27	EP9312-CBZ
200MHz ARM9 Processor	598-1259-ND	40.14	33.90	EP9312-IB
200MHz ARM9 Processor	598-1260-ND◆	40.14	33.90	EP9312-IBZ
200MHz ARM9 Processor	598-1261-ND	39.74	33.56	EP9315-CB
200MHz ARM9 Processor	598-1262-ND	44.48	37.57	EP9315-IB

◆ ***RoHS Compliant***

CIRRUS LOGIC®

Digital Amplifiers/Power Technology

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
6-Ch. Digital Amplifier Controller	598-1068-5-ND	10.21	9.08	CS44600-CQZ
8-Ch. Digital Amplifier Controller	598-1070-ND	10.64	9.46	CS44800-CQZ
Multi-Bit A/D Real Time PSR Feedback	598-1069-5-ND	7.26	6.05	CS4461-CZZ
Digital TV Amplifier, 30W with intergated ADC 102dB, 48-QFN	598-1264-ND	9.94	8.84	CS4525-CNZ
Quad Digital Amp Power Stage IC, 107dB, 60W 48-QFN	598-1188-ND	6.99	6.22	CS44130-CNZ

Op Amp

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Single, Ultra Low Noise Op Amp, 2.1mA 125nVp-p	598-1140-5-ND◆	3.15	2.63	CS3001-ISZ
Single, Ultra Low Noise Op Amp, 0.9mA 250nVp-p	598-1142-5-ND◆	3.15	2.63	CS3011-ISZ
Dual, Ultra Low Noise Op Amp, 3.6mA 125nVp-p	598-1141-5-ND◆	4.77	3.98	CS3002-ISZ
Dual, Ultra Low Noise Op Amp, 1.7mA 250nVp-p	598-1143-5-ND◆	4.77	3.98	CS3012-ISZ
Dual, Precision Low Voltage, Low Power Op Amp, 2.1mA, 8-SOIC	598-1145-1-ND◆‡ 598-1145-2-ND◆†	3.13	2.51 3558.40/2,000	CS3004-FSZR
Dual, Precision Low Voltage, Low Power Op Amp, 1.0mA, 8-SOIC	598-1146-1-ND◆‡ 598-1146-2-ND◆†	3.20	2.56 3635.20/2,000	CS3014-FSZR
Dual, Precision Low Voltage, Low Power Op Amp, 2.1mA, 150dB, 8-QFN	598-1147-1-ND◆‡ 598-1147-2-ND◆†	3.13	2.51 10425.00/6,000	CS3004-FNZR
Dual, Precision Low Voltage, Low Power Op Amp, 1mA, 135dB, 8-QFN	598-1149-1-ND◆‡ 598-1149-2-ND◆†	3.13	2.51 10425.00/6,000	CS3014-FNZR
Single, Low-Voltage, Low-Power, Op Amp, 1mA, 150dB, 8-QFN	598-1164-ND◆	2.82	2.47	CS3003-FNZ
Single, Low-Voltage, Low-Power, Op Amp, 1mA, 150dB, 8-SOIC	598-1165-5-ND	2.82	2.47	CS3003-FS
Single, Low-Voltage, Low-Power, Op Amp, 1mA, 150dB, 8-SOIC	598-1166-5-ND◆	2.82	2.47	CS3003-FSZ
Dual, Low-Voltage, Low-Power, Op Amp, 2.1mA, 150dB, 8-QFN	598-1168-ND◆	4.05	3.38	CS3004-FNZ
Dual, Low-Voltage, Low-Power, Op Amp, 2.1mA, 150dB, 8-SOIC	598-1169-5-ND◆	4.05	3.38	CS3004-FS
Dual, Low-Voltage, Low-Power, Op Amp, 2.1mA, 150dB, 8-SOIC	598-1170-5-ND◆	4.05	3.38	CS3004-FSZ
Single Low-Voltage, Low-Power, Op Amp, 0.5mA, 135dB, 8-QFN	598-1172-ND◆	2.82	2.47	CS3013-FNZ
Single Low-Voltage, Low-Power, Op Amp, 0.5mA, 135dB, 8-SOIC	598-1173-5-ND	2.82	2.47	CS3013-FS
Single Low-Voltage, Low-Power, Op Amp, 0.5mA, 135dB, 8-SOIC	598-1174-5-ND◆	2.82	2.47	CS3013-FSZ
Dual, Low-Voltage, Low-Power, Op Amp, 1mA, 135dB, 8-QFN	598-1176-ND◆	4.05	3.38	CS3014-FNZ
Dual, Low-Voltage, Low-Power, Op Amp, 1mA, 135dB, 8-SOIC	598-1177-5-ND	4.05	3.38	CS3014-FS
Dual, Low-Voltage, Low-Power, Op Amp, 1mA, 135dB, 8-SOIC	598-1178-5-ND◆	4.14	3.45	CS3014-FSZ

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel

Infrared Echo Canceller

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Telephony Network Echo Supression, 2-Channel, Full Duplex, 20-SOIC	598-1199-5-ND	13.98	12.58	CS6422-CS
Telephony Network Echo Supression, 2-Channel, Full Duplex, 20-SOIC	598-1200-5-ND◆	17.45	15.71	CS6422-CSZ
Telephony Network Echo Supression, 2-Channel, Full Duplex, 20-SOIC	598-1201-5-ND	15.38	13.84	CS6422-IS
Telephony Network Echo Supression, 2-Channel, Full Duplex, 20-SOIC	598-1202-5-ND◆	20.95	18.86	CS6422-ISZ
Multi-Standard Infrared Transceiver, 1-Channel, 20-SSOP	598-1203-5-ND	11.69	10.40	CS8130-CS
Multi-Standard Infrared Transceiver, 1-Channel, 20-SSOP	598-1204-5-ND◆	11.69	10.40	CS8130-CSZ

◆ ***RoHS Compliant***

Power Measurement

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
6-Channel Delta/Sigma ADC, 28-SSOP	598-1093-5-ND◆	10.07	8.96	CS5451A-ISZ
Single Phase Bi-Directional IC, 24-SSOP	598-1094-5-ND◆	6.99	5.83	CS5460A-BSZ
Single Phase Bi-Directional IC, 24-SSOP	598-1095-5-ND◆	5.88	4.90	CS5461A-ISZ
Single Phase Bi-Directional Power/Energy, 24-SSOPP	598-1096-5-ND◆	5.88	4.90	CS5463-ISZ
Single Phase Power/Energy IC, 3-Channel, 28-SSOP	598-1194-5-ND◆	6.94	6.17	CS5464-ISZ
Low Cost Power/Energy IC with Pulse Output, 2-Channel, 24-TSSOP	598-1195-5-ND	5.70	4.75	CS5466-IS
Low Cost Power/Energy IC with Pulse Output, 2-Channel, 24-TSSOP	598-1097-5-ND◆	5.70	4.75	CS5466-ISZ
Single Phase Power/Energy IC, 4-Channel, 28-SSOP	598-1197-5-ND◆	6.94	6.17	CS5467-ISZ

◆ ***RoHS Compliant***

Ethernet

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
LAN Controller, 3.3V, 100-LQFP	598-1127-ND◆	13.15	11.69	CS8900A-CQ3Z
LAN Controller, 5V, 100-LQFP	598-1128-ND◆	13.15	11.69	CS8900A-CQZ
LAN Controller, 3.3V, 100-LQFP	598-1129-ND◆	16.25	14.63	CS8900A-IQ3Z
LAN Controller, 5V, 100-LQFP	598-1130-ND◆	16.25	14.63	CS8900-IQZ
Crystal LAN 100 Base-X, 10 Base-T Transceiver and 100 Base-Fx Interface 1-Channel, 100-TQFP	598-1205-ND	15.43	13.89	CS8952-CQ
Crystal LAN 100 Base-X, 10 Base-T Transceiver and 100 Base-Fx Interface 1-Channel, 100-TQFP	598-1206-ND◆	15.43	13.89	CS8952-CQZ
Crystal LAN 100 Base-X, 10 Base-T Transceiver and 100 Base-Fx Interface 1-Channel, 100-TQFP	598-1207-ND	17.58	15.82	CS8952-IQ
Crystal LAN 100 Base-X, 10 Base-T Transceiver and 100 Base-Fx Interface 1-Channel, 100-TQFP	598-1208-ND◆	17.58	15.82	CS8952-IQZ

◆ ***RoHS Compliant***

NEW! CRD-8900A Reference Board

The CS8900A ISA Ethernet controller is used in low-cost, high performance ISA Ethernet adapter card. This card has AUI, 10BASE-T, and 10BASE-2 interfaces. The very high level of integration of the CS8900A results in a very low component count. This makes it possible to design a half-height, two layered 16 bit ISA Ethernet adapter card. Since analog filters are integrated on the SC8900A, the card may be compliant with FCC part 15 class (B).

Features:

• Crystal Oscillator • External Decode Logic • EEPROM • Socket for Optional Boot PROM • Status LEDs • ISA, 10BASE-T, AUI • 10BASE-2 interfaces

598-1163-ND (CRD8900A-1) **$375.00**

Volume Control

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
8-Ch. Analog Volume Control, 123dB, Single-Ended, 48-LQFP	598-1180-ND	27.50	23.22	CS3318-CQZ

Interface and Sample Rate Converters

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Interface and Sample Rate Converters — RoHS Compliant				
192kHz Digital Transmitter, 28-TSSOP	598-1121-5-ND	7.20	6.00	CS8406-CZZ
192kHz Digital Receiver, 28-SOIC	598-1123-5-ND	9.34	8.31	CS8416-CSZ
192kHz Digital Receiver, 28-TSSOP	598-1124-5-ND	9.34	8.31	CS8416-CZZ
Digital-Audio Sample Rate, 28-SOIC	598-1125-5-ND	29.93	25.27	CS8420-CSZ
32-Bit Asynchronous Sample, 20-TSSOP	598-1126-5-ND	13.65	12.29	CS8421-CZZ

Evaluation Board for CS8416 and CS8406

The CDB8416 is designed to allow easy evaluation of the CS8416 and CS8406. The board is designed for easy connection to an Audio Precision or other digital audio test system. Input and output data may be set for either balanced using the XLR connectors or unbalanced using the coax or optical connectors. Windows PC software provides a GUI to make configuration easy in software mode. The software communicates through the PC's parallel port to control the internal registers so that all the possible software modes of the CS8416 may be tested.

Features:

• CS8416 Digital Audio Receiver • Receives and transmits AES/EBU, S/PDIF and EIAJ-340 compatible digital audio • Analog and Digital 3.3V Supply • 3.3 ~ 5.0V Logic Interface Supply • Operates in stand alone Hardware Mode or computer controlled Software Mode • Balanced and unbalanced inputs available.

598-1017-ND (CDB8416) **$573.75**

Evaluation Board for CS8421

The CDB8421 demonstration board is an excellent means for evaluating the CS8421 sample rate converter. System timing can be provided by the CS8421, by the CS8416 phase-locked to its S/PDIF input, by an I/O stake header or by an on-board oscillator. Digital I/O is available via coaxial (RCA) or optical connectors to the CS8416 and SC8406. All configuration control is handled from onboard switches.

Features:

• CS8416 S/PDIF Digital Audio Receiver • CS8406 S/PDIF Digital Audio Transmitter • Header for External Serial Audio I/O • 3.3 ~ 5.0V Logic Interface • No software required to operate

598-1018-ND (CDB8421) **$540.00**

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

APEX PRECISION POWER Product Innovation From CIRRUS LOGIC

Amplifiers

A world-wide industry innovator in power analog. Apex defines power analog in terms of product solutions that deliver output currents above 100mA or operate on voltage supplies greater than 24V.

Power Op Amps

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
High voltage, high current, class A/B output, +/-28V, up to 5A peak, TO-3-8	598-1285-ND◆	103.32	90.25	PA01
Broadband, high output current, complementary collector output, +/-15V, 5A , TO-3-8	598-1286-ND◆	86.15	75.26	PA02
Broadband, high output current, complementary collector output, +/-15V, 5A , TO-3-8	598-1287-ND◆	112.05	97.88	PA02A
Broadband, high output current, complementary collector output, +/-15V, 5A , TO-3-8	598-1288-ND	274.44	239.04	PA02M/883
Super-power, copper dip package, high internal power dissipation 500W, 150V, MO-127-12	598-1289-ND◆	638.64	572.58	PA03
High voltage MOSFET, external sleep mode control, 50V/uS slew rate, 200v, 20A, MO-127-12	598-1290-ND◆	380.18	331.13	PA04A
High voltage MOSFET, external shutdown control, 100V/uS slew rate, 100v, 30A, MO-127-12	598-1291-ND◆	387.04	337.10	PA05
High voltage MOSFET, external shutdown control, 100V/uS slew rate, 100v, 30A, MO-127-12	598-1292-ND◆	448.33	401.95	PA05A
FET input, low bias current, thermal shutoff, class A/B output, 100V, 5A, TO-3-8	598-1293-ND◆	137.68	120.27	PA07
FET Input, low bias current, thermal shutoff, class A/B output, 100V, 5A, TO-3-8	598-1294-ND◆	167.09	145.53	PA07A
FET Input, low bias current, thermal shutoff, class A/B output, 100V, 5A, TO-3-8	598-1295-ND	409.28	366.94	PA07M/883
High voltage, programmable output current limit, low bias current, +/-150V, 200mA, TO-3-8	598-1296-ND◆	149.07	130.21	PA08
High voltage, programmable output current limit, low bias current, +/-150V, 200mA, TO-3-8	598-1297-ND◆	441.18	395.54	PA08M/883
4MHz gain bandwidth, class A/B output, high output current, +/-45V, 5A, TO-3-8	598-1301-ND◆	97.54	85.21	PA10
4MHz gain bandwidth, class A/B output, high output current, +/-50V, 5A, TO-3-8	598-1302-ND◆	125.51	109.64	PA10A
High voltage, very high output current, class A/B output, +/-45V, 15A, TO-3-8	598-1303-ND◆	113.59	99.23	PA12
High voltage, very high output current, class A/B output, +/-50V, 15A, TO-3-8	598-1304-ND◆	137.95	120.50	PA12A
High voltage, very high output current, high temperature, class A/B output, +/-45V, 15A, TO-3-8	598-1305-ND◆	353.83	308.18	PA12H
High voltage, very high output current, class A/B output, +/-45V, 15A, TO-3-8	598-1306-ND	359.00	312.68	PA12M/883
High voltage, very high output current, class A/B output, +/-45V, 15A, 12-SIP	598-1307-ND◆	145.28	126.91	PA13
High voltage, very high output current, class A/B output, +/-45V, 15A, 12-SIP	598-1308-ND◆	155.88	135.77	PA13A
FET input, 350kHz power bandwidth, 20V/uS slew rate, A/B output, +/-19V, 5A, 12-SIP	598-1310-ND	128.45	112.21	PA16A
MOSFET, high current, 50V/uS slew rate, boost voltage inputs, +/-50V, 100A, MO-127-12	598-1313-ND◆	626.20	561.42	PA50A
High voltage, high output current, common emitter class C output, +/-36V, 10A, TO-3-8	598-1314-ND◆	110.92	96.89	PA51A
High voltage, high output current, common emitter class C output, +/-36V, 10A, TO-3-8	598-1315-ND	252.12	219.60	PA51M/883
MOSFET, high current, 50V/uS slew rate, boost voltage inputs, +/-100V, 80A, MO-127-12	598-1316-ND◆	542.74	486.59	PA52
High output current, class C type output stage, low quiescent current, +/-45V, 10A, TO-3-8	598-1317-ND◆	97.54	85.21	PA61
High output current, class C type output stage, low quiescent current, +/-45V, 10A, TO-3-8	598-1318-ND◆	102.55	89.59	PA61A
High voltage, high output current, class C output, isolated case, +/-30V, 5A, TO-3-8	598-1319-ND◆	103.32	90.25	PA73
High voltage, high output current, class C output, isolated case, +/-30V, 5A, TO-3-8	598-1320-ND	259.69	226.18	PA73M/883
High voltage, high speed, over 200kHz power bandwidth, +/-175V, 150mA, 20-PSOP (SMT)	598-1351-ND◆	42.59	35.97	PA78DK
High voltage, 200V/uS slew rate, fully protected FET input, +/-150V, 50mA, TO-3-8	598-1324-ND◆	155.08	135.07	PA84
High voltage, 200V/uS slew rate, fast settling time, FET input, +/-150V, 50mA, TO-3-8	598-1325-ND◆	162.73	141.74	PA84S
High voltage, high speed, over 200kHz power bandwidth, +/-125V, 150mA, 12-SIP	598-1353-ND◆	56.68	51.02	PA86EU
Ultra high voltage, MOSFET, 1140Vpp signal output, +/-600V, 75mA, MO-127-12	598-1329-ND◆	638.64	572.58	PA89
High voltage, MOSFET, high bandwidth, 1000V/uS slew rate, +/-225V, +/-200mA, 12-SIP	598-1337-ND	207.87	181.05	PA98

◆ ***RoHS Compliant***

High Voltage Power Op Amps

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Low quiescent current, MOSFET input and output, +/-225V, 3mA, 10-SIP	598-1309-ND	143.37	125.24	PA15FLA
High output current, FET input, low bias current, low noise, +/-75V, 15mA, TO-3-8	598-1321-ND◆	150.71	131.65	PA81J
FET input, low bias current, low noise, class A/B output, +/-150V, 100mA, TO-3-8	598-1322-ND◆	171.20	149.11	PA83
FET input, low bias current, low noise, class A/B output, +/-150V, 100mA, TO-3-8	598-1323-ND◆	209.23	182.24	PA83A
MOSFET, 1000V/uS slew rate, high output current, +/-225V, 200mA, TO-3-8	598-1326-ND◆	207.87	181.05	PA85
MOSFET, 1000V/uS slew rate, high output current, +/-225V, 200mA, TO-3-8	598-1327-ND◆	247.36	215.45	PA85A
MOSFET, high output current, low bias current, +/-225V, 100mA, TO-3-8	598-1328-ND◆	187.24	163.08	PA88
300V/uS slew rate, high current MOSFET output, +/-200V, 200mA, 12-SIP	598-1330-ND	152.87	133.54	PA90
300V/uS slew rate, high current MOSFET output, +/-225V, 200mA, 12-SIP	598-1331-ND	167.49	145.89	PA91
MOSFET, low quiescent current, high output current, +/-200V, 4A, 12-SIP	598-1332-ND	179.34	156.20	PA92
MOSFET, low quiescent current, high output current, +/-200V, 8A, 12-SIP	598-1333-ND	205.20	178.73	PA93
MOSFET, 500V/uS slew rate, high output current, +/-450V, 100mA, 8-SIP	598-1334-ND	174.90	152.34	PA94
MOSFET, low quiescent current, high output current, +/-450V, 100mA, 8-SIP	598-1335-ND	160.64	139.92	PA95
MOSFET, low quiescent current, high output current, +/-450V, 10mA, 7-SIP	598-1336-ND	140.93	123.11	PA97DR
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, 7-DDPAK	598-1354-ND◆	35.33	29.83	PA240CC
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, TO-220-7	598-1355-ND◆	35.33	29.83	PA240CX
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, TO-3-8	598-1356-ND◆	71.44	60.16	PA241CE
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, 24-PSOP	598-1357-ND◆	41.54	35.08	PA241DF
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, 10-SIP	598-1358-ND	71.44	60.16	PA241DW
Monolithic MOS technology, low quiescent current, +/-175V, 120mA, 10-SIP	598-1397-ND	83.03	72.53	PA241DWA
High voltage power dual op amp, monolithic MOS technology, low quiescent current, +/-175V, 120mA, 24-PSOP	598-1359-ND◆	75.98	63.99	PA243DF

◆ ***RoHS Compliant***

Power Dual Op Amps

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
High voltage, 1.1MHZ bandwidth, high output current, 40V, 1.5A per amp, 12-SIP	598-1342-ND◆	32.76	27.67	PA60EU
High efficiency, high output current, low distortion, 40V, 2.5A, TO-3-8	598-1343-ND◆	89.14	77.87	PA74
High efficiency, high output current, low distortion, 40V, 3A, TO-3-8	598-1344-ND◆	95.62	83.52	PA74A
High efficiency, high output current, low distortion, 40V, 3A, TO-3-8	598-1345-ND	170.14	148.19	PA74M
High efficiency, high output current, low distortion, 40V, 2.5A, TO-3-8	598-1349-ND◆	89.14	77.87	PA76
High efficiency, high output current, low distortion, 40V, 3A, TO-3-8	598-1350-ND◆	95.55	83.47	PA76A
Wide bandwidth, high output current, low quiescent current, 40V, 1.5A, 7-DDPAK	598-1346-ND	21.70	19.53	PA75CC
Wide bandwidth, high output current, low quiescent current, 40V, 1.5A, TO-220-7	598-1347-ND	21.70	19.53	PA75CD
Wide bandwidth, high output current, low quiescent current, 40V, 1.5A, TO-220-7 (S)	598-1348-ND	23.75	21.38	PA75CX
High voltage, high speed, over 350V/uS slew rate, +/-175V, 150mA, 20-PSOP (SMT)	598-1352-ND◆	69.84	58.82	PA79DK

◆ ***RoHS Compliant***

Video Power Op Amps

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
150MHz gain bandwidth, power MOS output, 2000V/uS slew rate, +/-40V, 2A, TO-3-8	598-1298-ND◆	218.18	190.03	PA09
150MHz gain bandwidth, power MOS output, 2000V/uS slew rate, +/-40V, 2A, TO-3-8	598-1299-ND◆	255.25	222.32	PA09A
150MHz gain bandwidth, power MOS output, 2000V/uS slew rate, +/-40V, 2A, TO-3-8	598-1300-ND	508.43	455.84	PA09M/883
High voltage, high current, 900V/uS slew rate, MOS output, +/-40V, 5A, TO-3-8	598-1311-ND	286.69	249.70	PA119CE
High voltage, high current, 900V/uS slew rate, MOS output, +/-40V, 5A, TO-3-8	598-1312-ND	372.62	324.54	PA119CEA

◆ ***RoHS Compliant***

Power Booster Amps

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
High voltage, 50V/uS slew rate, 160kHz power bandwidth, +/-100V, 2A, TO-3-8	598-1338-ND◆	114.72	100.21	PB50
High voltage, 50V/uS slew rate, 320kHz power bandwidth, +/-150V, 1.5A, 12-SIP	598-1339-ND	142.35	124.34	PB51
High voltage, 75V/uS slew rate, 320kHz power bandwidth, +/-150V, 2A, 12-SIP	598-1340-ND	164.50	143.28	PB51A
High voltage, 75V/uS slew rate, 320kHz power bandwidth, +/-150V, 2A, TO-3-8	598-1341-ND◆	164.50	143.28	PB58A

◆ ***RoHS Compliant***

Pulse Width Modulation Amps

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Fully protected, 3-phase brushless DC motor driver, 60V, 5A, 23-SIP(S)	598-1360-ND◆	40.88	36.80	SA305EX
Thermal shut-down, shorted load protection, 60Vs, 5.5Vdd, 10A, 23-SIP(S)	598-1361-ND◆	39.56	33.41	SA56EX
Full-bridge output, external shut-down control, 100V, 30A, MO-127-10	598-1362-ND◆	406.32	364.29	SA01
IGBT outputs, 3 protection circuits, sync or ext osc, 450Vs, 16Vcc, 28A, MO-127-12	598-1363-ND◆	645.54	578.76	SA08
200kHz, 3 protection circuits, sync or ext osc, 200Vs, 16Vcc, 20A, MO-127-12	598-1364-ND◆	543.43	487.22	SA12
H-bridge motor driver/amp, PWM, self-contained lowside/highside drive circuitry, 80Vs, 16Vcc, 15A, 12-SIP	598-1365-ND	155.77	136.07	SA60

◆ ***RoHS Compliant***

Heatsinks

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Hardware Kit for DK (12-SIP) Package	598-1366-ND	7.16	6.36	HK26
Heatsink, TO-3	598-1367-ND◆	30.53	25.79	HS01
Heatsink, TO-3	598-1368-ND◆	34.74	29.34	HS02
Heatsink, TO-3	598-1369-ND◆	66.79	56.24	HS03
Heatsink, PDIP	598-1370-ND◆	73.42	61.83	HS06
Heatsink, TO-3	598-1371-ND◆	11.66	10.37	HS09
Heatsink, TO-3 and PDIP	598-1372-ND◆	274.29	238.90	HS11
Heatsink, TO-3	598-1373-ND◆	59.09	49.76	HS14
Heatsink, Vertical Mount	598-1374-ND◆	113.00	98.71	HS20
Heatsink, TO-220	598-1375-ND	4.05	3.38	HS22
Heatsink, SMT	598-1376-ND	14.95	13.46	HS24
Heatsink, Modular Package	598-1377-ND◆	151.41	132.26	HS26

◆ ***RoHS Compliant***

Sockets

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Socket, TO-3-8	598-1384-ND◆	35.21	29.74	MS03
Socket, 12-DIP	598-1386-ND◆	55.44	49.90	MS05

Description	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Cirrus Logic Part No.
Pin Receptacle for .032 ~ .046 Diameter Pins	598-1383-ND◆	8	17.30	MS02
Pin Receptacle for .048 ~ .064 Diameter Pins	598-1385-ND◆	12	32.40	MS04
Mating Socket for .015 ~ .025 Diameter Pins	598-1387-ND	2	10.80	MS06

◆ ***RoHS Compliant***

Evaluation Kits

DB62 Demonstration Board for SA305EX

The DB62 is designed to demonstrate the capabilities of the SA305EX as a 3-phase brushless DC motor driver IC. The PWM inputs to the SA305 are controlled by an on-board microcontroller. The EVAL49 board is pre-wired for all required and recommended external components.

598-1394-ND (DB62) **$269.24**

EK06 Evaluation Kit for SA60

Fast and easy bread boarding of circuits using the SA60 are possible with the EK06 evaluation kit. The amplifier may be mounted vertically with the HS20 heat sink, or horizontally. Connections are provided for required power supply bypassing recommended protection components, as well as optional current sense resistors. A large area for component mounting provides flexibility and makes a multitude of circuit configurations possible.

598-1388-ND (EK06) **$95.81**

EK09 Evaluation Kit for TO-3 and MO-127 Packages

This kit provides a solid mechanical platform with good shielding and grounding to breadboard eight pin TO-3 packages or the MO-127 package with 0.060" pins. This kit is intended as an alternate for kits dedicated to specific amplifiers. Construction will involve surface mounting and 3D techniques. Holes are provided to mount standard banana and BNC connectors for I/O.

598-1389-ND (EK09) **$85.31**

EK16 Evaluation Kit for PA92/PA93

This easy-to-use kit provides a platform for the evaluation of linear power amplifiers circuits using the PA92/PA93 pin-out. With ample bread boarding areas it is flexible enough to evaluate a multitude of standard or proprietary circuit configurations. Critical connections for power supply bypassing, compensation, and current limiting are pre-wired. Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminals at the edge of the circuit board. These terminal pads are suitable for standard banana jacks or direct soldering of wires.

598-1390-ND (EK16) **$122.06**

EK34 Evaluation Kit for PA240CX

Fast, easy bread boarding of circuits using the PA240CX are possible with the EK34 PC board. Mounting holes are provided and the provision for standard banana jacks simplifies connection and testing. The amplifier may be mounted horizontally or vertically. Components are labeled on both sides of the board for ease in probing.

A multitude of circuit configurations are possible, so only several component locations have specific functions and will usually be necessary. This kit is not suitable for use with PA240CC.

598-1391-ND (EK34) **$79.85**

EK50 Evaluation Kit for PB50/PB58 Power Boosters

This easy-to-use kit provides a platform for the evaluation of the PB50 and PB58 high voltage power boosters. The PB50 and PB58 are designed most commonly in combination with a small signal, general purpose op amp. However, they can also be used to analyze a multitude of standard or proprietary circuit configurations.

598-1392-ND (EK50) **$66.50**

EK52 Evaluation Kit for MP230FC/MP240FC

This easy-to-use kit provides for the evaluation of linear power amplifiers circuits using the MP230FC/MP240FC pin-out. With ample bread boarding areas it is flexible enough to evaluate a multitude of standard or proprietary circuit configurations. Critical connections for power supply bypassing are pre-wired. Components not usually readily available in engineering labs are provided. External connection to the evaluation kit can be made via the terminal block and the banana jacks at the edges of the circuit board. Additionally, an optional BNC connector can be inserted into the hole at the edge of the board and wired to the number 5 terminal pad.

598-1396-ND (EK52) **$177.73**

EK60 Evaluation Kit for PA78

The EK60 evaluation kit is designed to provide a convenient way to bread board design ideas for the PA78EU power operational amplifiers. The EVAL60 evaluation board is pre-wired for all required and recommended external components including the ones for power supply bypassing, compensation and current limiting. The EVAL60 also includes a bread board area for constructing your application circuit with provisions for a preamplifier to drive the PA78 inputs.

598-1395-ND (EK60) **$148.75**

EK61 Evaluation Kit for PA78DK and PA79DK

Fast and easy bread boarding of circuits using the PA78DK or PA79DK is possible with the EK61 evaluation kit. The EK61 includes both the universal EVAL36 board and the EVAL61 substrate. The use of EVAL36 and EVAL61 allows for a large area of bread boarding space to work with while allowing a surface mount substrate for the PA78DK or PA79DK. The PA78DK or PA79DK amplifier may be surface mounted directly to the EVAL61, a thermally conductive but electrically isolated substrate. The PA78DK or PA79DK is soldered to a DUT foil footprint area the size of the heatslug. The metal substrate is cost effective and can allow the PA78DK or PA79DK to dissipate power up to the datasheet rating.

598-1398-ND (EK61) **$70.75**

EK62 Evaluation Kit for SA305EX 3-Phase Motor Driver

The EK62 evaluation kit is designed to provide a convenient way to bread board design ideas for the SA305EX. The PB119 evaluation board is pre-wired for all required external components including the ones for power supply bypassing and current sensing. The PB119 also includes a bread board area for constructing your application circuit.

598-1393-ND (EK62) **$221.11**

Thermal Washers

Description	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Cirrus Logic Part No.
Thermal Washer, TO-3	598-1378-ND	10	20.55	TW03
Thermal Washer, PSIP	598-1379-ND	10	34.29	TW07
Thermal Washer, PDIP	598-1380-ND	10	28.78	TW10
Thermal Washer, SIP	598-1381-ND	15	30.53	TW12
Thermal Washer, SIP	598-1382-ND	10	32.40	TW13

Programmable Digital Filters

The QF1D512 is a single channel, programmable digital filter designed for seamless insertion in the serial data path of a digital signal or used as an FIR coprossesor. The circuit shows the QF1D512 operating between an ADC and an MCU. The device can be programmed using the Quickfilter Design Software which supports most FIR digital filter configurations. The FIR filter has 512 taps capable of generating "brick wall" filters such as a low pass filter with a 1kHz cutoff frequency, 140dB of rejection, and a total transition band of only 10Hz. The filter can operate over a broad range of ADC data rates - from 10sps up to 500ksps and can support ADCs with resolutions ranging from 12 to 24 bits.

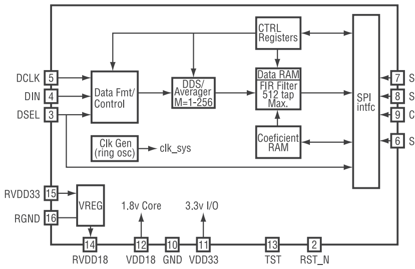

The QF4A512 Programmable Signal Converter is a 4-channel, signal conditioner and signal converter. Each channel can be individually programmed for the gain, anti-aliasing filter cutoff frequency, A-to-D sampling frequency, and unique filter requirements. This is accomplished with 4 separate high-precision 512-tap FIR filters. Quickfilter software has been created for rapid device configuration and filter design at performance levels unattainable with analog components.

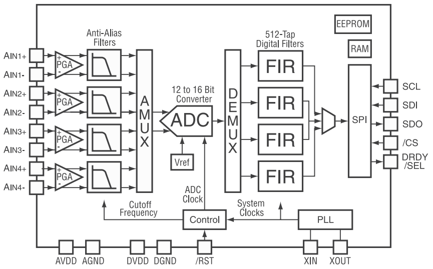

Description	Digi-Key Part No.	Price Each 1	25	Quickfilter Technologies Part No.
IC SavFIRe Digital Filter 1-Channel 16-QFN	686-1001-1-ND◆‡	2.23	1.52	QFN1D512-QN-T
IC SavFIRe Digital Filter 1-Channel 16-QFN	686-1001-2-ND◆†	1151.45/1,000		QFN1D512-QN-T
IC Programmable Signal Conv. 4-Ch. 32-LQFP	686-1002-ND◆	13.33	10.49	QF4A512A-LQ-B
Development Kit for QF1D512	686-1003-ND◆	199.00	—	QF1D512-DK
Development Kit for QF4A512	686-1004-ND◆	199.00	—	QF4A512-DK
Programmable Adapter for QF4A512-DK	686-1005-ND	180.53	—	QF4A512-PA
Board MSP-MOJO and Expansion Header	686-1006-ND◆	39.95	—	QF1D512-EZ430
Prototyping Adapter for QF1D512	686-1007-ND◆	21.28	—	QF1D512-DIPSTER

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel

STATIC PROTECTION

Protection of static sensitive parts is a MUST in today's semiconductor market.
To ensure the quality that Digi-Key customers have come to expect, the Digi-Key static control program includes proper static safety protection in the following areas:

- ***Receiving, Incoming Inspection, and QC***
- ***Order Picking***
- ***Final Inspection***
- ***Packaging and Shipping***

Shielded metallized bags are used in order picking, and 100% recyclable paper packaging is used in packaging and shipping.

As our program is continuously updated with the latest static control technology, you can be reassured that Digi-Key's static sensitive parts are quality safe, *all the way to your door step!*

• Please Note: SO-x packages are the same as x-SOIC packages •

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

C

ANALOG DEVICES Digi-Reel® AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8015ARZ-ND	Transimpedance Amp*	8-SOIC	6.64	5.32	4.49
	Audio/Video				
AD813ARZ-14-ND	Triple Video Amp Single Low Power*	14-SOIC	9.16	7.33	6.19
AD828AN-ND	Op Amp Video Dual Low Power	8-Dip	5.74	4.59	3.57
AD828ANZ-ND	Op Amp Video Dual Low Power*	8-Dip	5.47	4.38	3.41
AD828ARZ-ND	Op Amp Video Dual Low Power*	8-SOIC	5.47	4.38	3.41
AD830ANZ-ND	Video Differential Amp High Speed*	8-Dip	5.94	4.76	4.01
AD830ARZ-ND	Video Differential Amp High Speed*	8-SOIC	5.94	4.76	4.01
AD830JRZ-R7CT-ND	Video Differential Amp High Speed*	8-SOIC	5.40	4.32	3.65
AD830JRZ-R7TR-ND	Video Differential Amp High Speed*	8-SOIC	2829.00/750		
AD1990ACPZ-ND	Audio Switching Amp*	64-LFCSP	12.16	10.95	9.71
AD1991ASV-ND	Audio Power Stage Class-D/1-Bit	52-TQFP	16.04	14.45	12.81
AD1991ASVZ-ND	Audio Power Stage Class-D/1-Bit*	52-TQFP	14.58	13.13	11.64
AD1992ACPZ-ND	Audio Switching Amp*	64-LFCSP	12.41	11.18	9.91
AD1994ACPZ-ND	Audio Switching Amp*	64-LFCSP	13.08	10.47	8.83
EVAL-AD1994EBZ-ND	Evaluation Board for AD1994* ***NEW!***	—	208.34	—	—
AD8013ARZ-14-ND	Triple Video Amp*	14-SOIC	8.90	8.01	7.11
AD8023ARZ-ND	Triple Video Amp, High Current Output*	14-SOIC	9.46	8.52	7.56
AD8073JNZ-ND	Triple Video Amp*	14-Dip	5.04	4.04	3.41
AD8073JRZ-ND	Triple Video Amp*	14-SOIC	5.04	4.04	3.41
AD8074ARUZ-ND	High Speed Triple Video Buffer*	16-TSSOP	5.14	4.12	3.47
AD8074-EVAL-ND	Evaluation Board for AD8074	—	90.00	—	—
AD8074Z-EVAL-ND	Evaluation Board for AD8074*	—	89.99	—	—
AD8075ARUZ-ND	Triple Video Buffer High Speed*	16-TSSOP	5.14	4.12	3.47
AD8075Z-EVAL-ND	Evaluation Board for AD8075*	—	89.99	—	—
AD8079ARZ-ND	Dual 260MHz Buffer*	8-SOIC	8.58	6.87	5.80
AD8079BRZ-ND	Dual 260MHz Buffer*	8-SOIC	8.58	6.87	5.80
OP275GPZ-ND	Op Amp Bipolar/JFET Audio*	8-Dip	2.35	1.88	1.41
OP275GSZ-ND	Op Amp Bipolar/JFET Audio*	8-SOIC	2.23	1.78	1.34
SSM2211CP-REEL7CT-ND	Audio Amp Low Distortion 1.5W	8-LFCSP	1.02	.85	.68
SSM2211CPZ-REEL7CT-ND	Audio Amp Low Distortion 1.5W*	8-LFCSP	1.20	1.00	.80
SSM2211CPZ-REEL7TR-ND	Audio Amp Low Distortion 1.5W*	8-LFCSP	757.50/1,500		
SSM2211SZ-ND	Audio Amp Low Distortion 1.5W*	8-SOIC	1.20	1.00	.80
SSM2301CPZ-REEL7CT-ND	Audio Amp Class-D 1.4W*	8-LFCSP	1.44	1.20	.96
SSM2301CPZ-REEL7TR-ND	Audio Amp Class-D 1.4W*	8-LFCSP	957.60/1,500		
SSM2301RMZ-REEL7CT-ND	Audio Amp Class-D Mono, 1.4W* ***NEW!***	8-MSOP	.96	.80	.64
SSM2301RMZ-REEL7TR-ND	Audio Amp Class-D Mono, 1.4W* ***NEW!***	8-MSOP	425.60/1,000		
SSM2301-EVALZ-ND	Evaluation Board for SSM2301* ***NEW!***	—	53.64	—	—
SSM2302CPZ-REEL7CT-ND	Audio Amp Class-D Stereo*	16-LFCSP	2.28	1.82	1.37
SSM2302CPZ-REEL7TR-ND	Audio Amp Class-D Stereo*	16-LFCSP	1774.50/1,500		
SSM2302Z-EVAL-ND	Evaluation Board for SSM2302* ***NEW!***	—	53.64	—	—
SSM2305CPZ-REEL7CT-ND	Audio Amp Class-D Mono, 2.8W* ***NEW!***	8-LFCSP	1.80	1.44	1.08
SSM2305CPZ-REEL7TR-ND	Audio Amp Class-D Mono, 2.8W* ***NEW!***	8-LFCSP	1404.00/1,500		
SSM2305RMZ-REEL7CT-ND	Audio Amp Class-D Mono, 2.8W* ***NEW!***	8-MSOP	1.48	1.18	.89
SSM2305RMZ-REEL7TR-ND	Audio Amp Class-D Mono, 2.8W* ***NEW!***	8-MSOP	767.00/1,000		
SSM2306-EVALZ-ND	Evaluation Board for SSM2306*	—	62.38	—	—
SSM2306-MINI-EVALZ-ND	Evaluation Board for SSM2306-Mini*	—	62.38	—	—
SSM2306CPZ-REEL7CT-ND	Audio Amp Class-D Stereo, 2W*	16-LFCSP	1.73	1.38	1.04
SSM2306CPZ-REEL7TR-ND	Audio Amp Class-D Stereo, 2W*	16-LFCSP	1345.50/1,500		
SSM2311CBZ-REEL7CT-ND	Audio Amp Class-D Mono, 3W* ***NEW!***	9-WLCSP	1.80	1.44	1.08
SSM2311CBZ-REEL7TR-ND	Audio Amp Class-D Mono, 3W* ***NEW!***	9-WLCSP	2764.80/3,000		
SSM2311-EVALZ-ND	Evaluation Board for SSM2311* ***NEW!***	—	53.64	—	—
	Comparator				
AD790AQ-ND	Precision Comparator High Speed	8-Dip	13.18	11.87	10.53
AD790JN-ND	Precision Comparator High Speed	8-Dip	8.98	7.19	6.07
AD790JNZ-ND	Precision Comparator High Speed*	8-Dip	8.16	6.53	5.51
AD790JRZ-ND	Precision Comparator High Speed*	8-SOIC	8.16	6.53	5.51
AD8210YRZ-ND	High Voltage, Bidirectional Current Shunt Monitor*	8-SOIC	4.19	3.35	2.61
AD8211YRJZ-RL7CT-ND	High Voltage Current Shunt Monitor*	SOT-23-5	2.00	1.60	1.20
AD8211YRJZ-RL7TR-ND	High Voltage Current Shunt Monitor*	SOT-23-5	3072.00/3,000		
AD8212YRMZ-R7CT-ND	High Voltage Current Shunt Monitor*	8-MSOP	2.38	1.90	1.43
AD8212YRMZ-R7TR-ND	High Voltage Current Shunt Monitor*	8-MSOP	1235.00/1,000		
AD8213YRMZ-R7CT-ND	Dual High Voltage Current Shunt Monitor*	10-MSOP	4.64	3.71	2.89
AD8213YRMZ-R7TR-ND	Dual High Voltage Current Shunt Monitor*	10-MSOP	2626.50/1,000		
AD8215YRZ-ND	High Voltage, Current Shunt Monitor* ***NEW!***	SOT-23-5	2.79	2.24	1.74
AD8561ANZ-ND	Comparator Single 7nS*	8-Dip	4.16	3.33	2.59
AD8561AR-REEL7CT-ND	Comparator Single 7nS	8-SOIC	4.59	3.68	2.86
AD8561ARUZ-ND	Comparator Single 7nS*	8-TSSOP	4.16	3.33	2.59
AD8561ARZ-ND	Comparator Single 7nS*	8-SOIC	4.16	3.33	2.59
AD8561ARZ-REEL7CT-ND	Comparator Single 7nS*	8-SOIC	4.16	3.33	2.59
AD8561ARZ-REEL7TR-ND	Comparator Single 7nS*	8-SOIC	2358.75/1,000		
AD8564AR-ND	Comparator Quad 7nS	16-SOIC	9.02	7.22	6.09
AD8564ARZ-ND	Comparator Quad 7nS*	16-SOIC	8.20	6.56	5.54
AD8564ARU-REELCT-ND	Comparator Quad 7nS	16-TSSOP	8.12	6.50	5.49
AD8564ARUZ-REELCT-ND	Comparator Quad 7nS*	16-TSSOP	7.38	5.91	4.99
AD8564ARUZ-REELTR-ND	Comparator Quad 7nS*	16-TSSOP	11439.00/2,500		
AD8611ARZ-ND	Comparator Single 4nS High Speed*	8-SOIC	5.36	4.29	3.34
AD8611ARMZ-R2CT-ND	Comparator Single 4nS High Speed*	8-MSOP	4.60	3.68	3.11
AD8611ARMZ-R2TR-ND	Comparator Single 4nS High Speed*	8-MSOP	764.75/250		
AD8612ARUZ-ND	Comparator Dual 4nS Fast*	14-TSSOP	8.00	6.40	5.40
AD96687BP-ND	Comparator Dual 2.5nS	20-PLCC	7.04	5.64	4.76
AD96687BPZ-ND	Comparator Dual 2.5nS*	20-PLCC	6.40	5.12	4.32
AD96687BQ-ND	Comparator Dual 2.5nS	16-Dip	9.83	8.85	7.85
AD96687BR-ND	Comparator Dual 2.5nS	16-SOIC	6.42	5.14	4.34
AD96687BRZ-ND	Comparator Dual 2.5nS*	16-SOIC	5.84	4.68	3.95
ADCMP341YRJZ-REEL7CT-ND	Dual Comparator/Reference*	SOT-23-8	2.25	1.80	1.35
ADCMP341YRJZ-REEL7TR-ND	Dual Comparator/Reference*	SOT-23-8	3456.00/3,000		
ADCMP343YRJZ-REEL7CT-ND	Dual Comparator/Reference*	SOT-23-8	2.25	1.80	1.35
ADCMP343YRJZ-REEL7TR-ND	Dual Comparator/Reference*	SOT-23-8	3456.00/3,000		
ADCMP361YRJZ-REEL7CT-ND	Comparator/Reference*	SOT-23-5	1.50	1.20	.90
ADCMP361YRJZ-REEL7TR-ND	Comparator/Reference*	SOT-23-5	2304.00/3,000		
ADCMP370AKSREELCT-ND	Comparator, Open-Drain, High Voltage	SC70-5	.93	.78	.62
ADCMP370AKSREELTR-ND	Comparator, Open-Drain, High Voltage	SC70-5	1209.00/3,000		
ADCMP370AKSZ-REEL7CT-ND	Comparator, Open-Drain, High Voltage*	SC70-5	.84	.70	.56
ADCMP370AKSZ-REEL7TR-ND	Comparator, Open-Drain, High Voltage*	SC70-5	1092.00/3,000		
ADCMP371AKSREELCT-ND	Comparator, Push-Pull	SC70-5	.93	.78	.62
ADCMP371AKSREELTR-ND	Comparator, Push-Pull	SC70-5	1209.00/3,000		
ADCMP371AKSZ-REEL7CT-ND	Comparator, Push-Pull*	SC70-5	.84	.70	.56
ADCMP371AKSZ-REEL7TR-ND	Comparator, Push-Pull*	SC70-5	1092.00/3,000		
ADCMP551BRQZ-ND	Comparator, Single Supply, High Speed PECL/LVPECL*	16-QSOP	5.40	4.32	3.65
ADCMP552BRQZ-ND	Comparator, Single Supply, High Speed PECL/LVPECL*	20-QSOP	6.90	5.52	4.66
ADCMP553BRMZ-ND	Comparator, Single Supply, High Speed PECL/LVPECL*	8-MSOP	4.57	3.66	2.85
ADCMP562BRQZ-ND	Comparator Dual High Speed PECL*	20-QSOP	5.40	4.32	3.65
ADCMP563BRQZ-ND	Comparator Dual High Speed ECL*	16-QSOP	5.40	4.32	3.65
ADCMP564BRQZ-ND	Comparator Dual High Speed ECL*	20-QSOP	5.40	4.32	3.65
ADCMP565BPZ-ND	Comparator Dual Ultra-Fast*	20-PLCC	8.75	7.88	6.99
ADCMP566BCPZ-ND	Comparator Dual Ultra-Fast*	32-LFCSP	8.00	6.40	5.40
ADCMP567BCPZ-ND	Comparator Dual Ultra-Fast*	32-LFCSP	8.00	6.40	5.40
ADCMP572BCPZ-R2CT-ND	Comparator Single Ultra-Fast*	16-LFCSP	17.28	15.56	13.80
ADCMP572BCPZ-R2TR-ND	Comparator Single Ultra-Fast*	16-LFCSP	3305.44/250		
ADCMP573BCPZ-R2CT-ND	Comparator Single Ultra-Fast*	16-LFCSP	17.28	15.56	13.80
ADCMP573BCPZ-R2TR-ND	Comparator Single Ultra-Fast*	16-LFCSP	3305.44/250		
ADCMP580BCPZ-WP-ND	Comparator Ultra-Fast SiGe*	16-LFCSP	15.56	14.52	13.49
ADCMP582BCPZ-R2CT-ND	Comparator Ultra-Fast SiGe*	16-LFCSP	17.28	15.56	13.80
ADCMP582BCPZ-R2TR-ND	Comparator Ultra-Fast SiGe*	16-LFCSP	3305.44/250		
ADCMP600BKSZ-REEL7CT-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	SC70-5	3.83	3.06	2.38
ADCMP600BKSZ-REEL7TR-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	SC70-5	6426.00/3,000		
ADCMP600BRJZ-REEL7CT-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	SOT-23-5	3.83	3.06	2.38
ADCMP600BRJZ-REEL7TR-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	SOT-23-5	6426.00/3,000		
ADCMP601BKSZ-REEL7CT-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	SC70-6	3.94	3.15	2.45
ADCMP601BKSZ-REEL7TR-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	SC70-6	6615.00/3,000		
ADCMP602BRMZ-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	8-MSOP	5.06	4.05	3.15
ADCMP603BCPZ-R7CT-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	12-LFCSP	4.16	3.33	2.59
ADCMP603BCPZ-R7TR-ND	Comparator R-R, Fast 2.5V~5.5V, TTL/CMOS*	12-LFCSP	3538.50/1,500		
ADCMP604BKSZ-REEL7CT-ND	Comparator R-R, Fast 2.5V~5.5V, LVDS*	SC70-6	4.84	3.87	3.01
ADCMP604BKSZ-REEL7TR-ND	Comparator R-R, Fast 2.5V~5.5V, LVDS*	SC70-6	8127.00/3,000		
ADCMP605BCPZ-R7CT-ND	Comparator R-R, Fast 2.5V~5.5V, LVDS*	12-LFCSP	5.29	4.23	3.29
ADCMP605BCPZ-R7TR-ND	Comparator R-R, Fast 2.5V~5.5V, LVDS*	12-LFCSP	4494.00/1,500		
ADCMP606BKSZ-REEL7CT-ND	Comparator R-R, Fast 2.5V~5.5V, CML*	SC70-6	4.84	3.87	3.01
ADCMP606BKSZ-REEL7TR-ND	Comparator R-R, Fast 2.5V~5.5V, CML*	SC70-6	8127.00/3,000		
ADCMP608BKSZ-REEL7CT-ND	Comparator R-R, Fast, LP, 2.5V~5.5V, TTL/CMOS*	SC70-6	1.45	1.16	.87
ADCMP608BKSZ-REEL7TR-ND	Comparator R-R, Fast, LP, 2.5V~5.5V, TTL/CMOS*	SC70-6	2227.20/3,000		
ADCMP609BRMZ-REEL7CT-ND	Comparator R-R, Fast, LP, 2.5V~5.5V, TTL/CMOS*	8-MSOP	2.25	1.80	1.40
ADCMP609BRMZ-REEL7TR-ND	Comparator R-R, Fast, LP, 2.5V~5.5V, TTL/CMOS*	8-MSOP	3780.00/3,000		
ADCMP670-1YUJZ-RL7CT-ND	Dual Low Power Comparator*	6-TSOT	3.15	2.52	1.96
ADCMP670-1YUJZ-RL7TR-ND	Dual Low Power Comparator*	6-TSOT	5292.00/3,000		
ADM4073FWRJZ-REEL7CT-ND	Current-Sense Amp, 50V/V*	SOT-23-6	1.30	1.04	.78
ADM4073FWRJZ-REEL7TR-ND	Current-Sense Amp, 50V/V*	SOT-23-6	1998.00/3,000		
ADM4073HWRJZ-REEL7CT-ND	Current-Sense Amp, 100V/V*	SOT-23-6	1.30	1.04	.78
ADM4073HWRJZ-REEL7TR-ND	Current-Sense Amp, 100V/V*	SOT-23-6	1998.00/3,000		
ADM4073FWRJZ-REEL7CT-ND	Current-Sense Amp, 20V/V*	SOT-23-6	1.30	1.04	.78
ADM4073FWRJZ-REEL7TR-ND	Current-Sense Amp, 20V/V*	SOT-23-6	1998.00/3,000		
CMP04FSZ-ND	Comparator Quad Low Power*	14-SOIC	8.53	7.68	6.81
CMP401GSZ-ND	Comparator Low Voltage 23nS*	16-SOIC	6.08	4.87	4.11
CMP402GSZ-ND	Comparator Low Voltage 65nS*	16-SOIC	6.42	5.14	4.34
	Differential				
AD8123ACPZ-R7CT-ND	Triple Diff. Receiver with Adj. Line Equalization*	40-LFCSP	12.98	11.69	10.37
AD8123ACPZ-R7TR-ND	Triple Diff. Receiver with Adj. Line Equalization*	40-LFCSP	7303.13/750		
AD8129ARMZ-ND	Differential Receiver Amp 270MHz*	8-MSOP	4.12	3.30	2.57
AD8129ARZ-ND	Differential Receiver Amp 270MHz*	8-SOIC	4.12	3.30	2.57
AD8130ARZ-ND	Differential Receiver Amp 270MHz High Speed*	8-SOIC	4.12	3.30	2.57
AD8130ARM-ND	Differential Receiver Amp 270MHz High Speed	8-MSOP	4.52	3.62	2.82
AD8130ARMZ-ND	Differential Receiver Amp 270MHz High Speed*	8-MSOP	4.12	3.30	2.57
AD8131ARZ-ND	Differential Driver 400MHz High Speed*	8-SOIC	4.77	3.82	2.97
AD8131ARMZ-ND	Differential Driver 400MHz High Speed*	8-MSOP	4.77	3.82	2.97
AD8131ARMZ-REEL7CT-ND	Differential Driver 400MHz High Speed*	8-MSOP	4.77	3.82	2.97
AD8131ARMZ-REEL7TR-ND	Differential Driver 400MHz High Speed*	8-MSOP	2703.00/1,000		
AD8133ACPZ-REEL7CT-ND	Triple Differential Driver with Output Pull-Down*	24-LFCSP	5.18	4.15	3.50
AD8133ACPZ-REEL7TR-ND	Triple Differential Driver with Output Pull-Down*	24-LFCSP	4856.25/1,500		
AD8145YCPZ-R7CT-ND	Triple Differential Receiver with Comparators*	32-LFCSP	5.98	4.79	4.04
AD8145YCPZ-R7TR-ND	Triple Differential Receiver with Comparators*	32-LFCSP	5607.00/1,500		
AD8146ACPZ-R2CT-ND	Triple Differential Driver*	24-LFCSP	6.80	5.44	4.59
AD8146ACPZ-R2TR-ND	Triple Differential Driver*	24-LFCSP	1105.00/250		
AD8147ACPZ-R2CT-ND	Triple Differential Driver*	24-LFCSP	7.04	5.64	4.76
AD8147ACPZ-R2TR-ND	Triple Differential Driver*	24-LFCSP	1144.00/250		
AD8148ACPZ-R2CT-ND	Triple Differential Driver*	24-LFCSP	7.28	5.83	4.92
AD8148ACPZ-R2TR-ND	Triple Differential Driver*	24-LFCSP	1183.00/250		
AD8202YRMZ-ND	High Common-Mode Voltage, Single-Supply Differential Amp*	8-MSOP	3.47	2.78	2.16
AD8202YRZ-ND	High Common-Mode Voltage, Single-Supply Differential Amp*	8-SOIC	3.47	2.78	2.16
AD8203YRMZ-ND	High Common-Mode Voltge, Single-Supply Differential Amp*	8-MSOP	3.15	2.52	1.96
AD8203YRZ-ND	High Common-Mode Voltage, Single-Supply Differential Amp*	8-SOIC	3.15	2.52	1.96
AD8205YRZ-ND	42V System Differential Amp*	8-SOIC	3.47	2.78	2.16
AD8206YRZ-ND	42V System Differential Amp*	8-SOIC	3.15	2.52	1.96
AD8216YRZ-R7CT-ND	65V Bidirectional Differential Amp* ***NEW!***	8-SOIC	3.76	3.01	2.34
AD8216YRZ-R7TR-ND	65V Bidirectional Differential Amp* ***NEW!***	8-SOIC	2129.25/1,000		
AD8324ACPZ-ND	3.3V Cable Line Driver*	20-LFCSP	4.50	3.60	2.80
AD8328ACP-ND	5V Cable Line Driver	20-LFCSP	5.42	4.34	3.38

**** RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8328ARQ-ND	5V Cable Line Driver	20-QSOP	5.69	4.56	3.55
AD8328ARQZ-ND	5V Cable Line Driver*	20-QSOP	5.18	4.14	3.22
AD8390ACP-R2CT-ND	Voltage Feedback Differential Amp	16-LFCSP	6.14	4.92	4.15
AD8390ACPZ-REEL7CT-ND	Voltage Feedback Differential Amp*	16-LFCSP	5.09	4.07	3.17
AD8390ACPZ-REEL7TR-ND	Voltage Feedback Differential Amp*	16-LFCSP	4322.25/1,500		
AD8390ARCZ-ND	Voltage Feedback Amp ADSL, Low Power*	16-QSOP	5.78	4.63	3.91
AD8396ACPZ-R7CT-ND	Low Power, High Output Current, Dual Port ADSL/ADSL2+ Line Driver*	16-LFCSP	4.39	3.51	2.73
AD8396ACPZ-R7TR-ND	Low Power, High Output Current, Dual Port ADSL/ADSL2+ Line Driver*	16-LFCSP	3729.38/1,500		
AD8398ACPZ-R7CT-ND	VDSL, Dual Line Driver*	16-LFCSP	3.94	3.15	2.45
AD8398ACPZ-R7TR-ND	VDSL, Dual Line Driver*	16-LFCSP	3346.88/1,500		
ADA4937-2YCPZ-R7CT-ND	Ultralow Distortion Differential ADC Driver* ***NEW!***	24-LFCSP	11.38	9.11	7.69
ADA4937-2YCPZ-R7TR-ND	Ultralow Distortion Differential ADC Driver* ***NEW!***	24-LFCSP	10540.73/1,500		
ADA4938-1ACPZ-R7CT-ND	Ultralow Distortion Differential ADC Driver*	16-LFCSP	7.58	6.07	5.12
ADA4938-1ACPZ-R7TR-ND	Ultralow Distortion Differential ADC Driver*	16-LFCSP	7106.25/1,500		
ADA4938-2ACPZ-R7CT-ND	Ultralow Distortion Differential ADC Driver* ***NEW!***	24-LFCSP	11.38	9.11	7.69
ADA4938-2ACPZ-R7TR-ND	Ultralow Distortion Differential ADC Driver* ***NEW!***	24-LFCSP	10540.73/1,500		
ADA4941-1YCPZ-R7CT-ND	Single Supply, Differential 18-Bit ADC Driver*	8-LFCSP	5.38	4.31	3.35
ADA4941-1YCPZ-R7TR-ND	Single Supply, Differential 18-Bit ADC Driver*	8-LFCSP	4570.88/1,500		
ADN4667ARUZ-REEL7CT-ND	3V LVDS Quad Differential Line Driver* ***NEW!***	16-TSSOP	2.81	2.25	1.75
ADN4667ARUZ-REEL7TR-ND	3V LVDS Quad Differential Line Driver* ***NEW!***	16-TSSOP	1593.75/1,000		
ADN4668ARUZ-ND	3V LVDS Quad Differential Line Receiver* ***NEW!***	16-TSSOP	2.81	2.25	1.75

General Purpose

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD684AQ-ND	Sample/Hold Amp Quad	16-CDip	64.19	59.91	55.63
AD684JQ-ND	Sample/Hold Amp Quad	16-Dip	53.49	49.93	46.36
AD684SQ-ND	Sample/Hold Amp Quad	16-CDip	210.02	196.02	182.02
AD708AQ-ND	Op Amp Dual Low Offset Voltage	8-Dip	8.62	6.90	5.82
AD708BQ-ND	Op Amp Dual Low Offset Voltage	8-CDip	12.11	10.91	9.67
AD708JNZ-ND	Op Amp Dual Low Offset Voltage*	8-Dip	5.82	4.66	3.93
AD712AQ-ND	Precision Op Amp Dual BiFET	8-Dip	10.28	8.23	6.94
AD712JNZ-ND	Precision Op Amp Dual BiFET*	8-Dip	3.74	2.99	2.33
AD712JRZ-ND	Precision Op Amp Dual BiFET*	8-SOIC	3.74	2.99	2.33
AD712KNZ-ND	Precision Op Amp Dual BiFET*	8-Dip	6.62	5.30	4.47
AD712KR-ND	Precision Op Amp Dual BiFET	8-SOIC	6.66	5.33	4.50
AD712KRZ-ND	Precision Op Amp Dual BiFET*	8-SOIC	6.34	5.08	4.28
AD712KR-REEL7CT-ND	Precision Op Amp Dual BiFET	8-SOIC	6.66	5.33	4.50
AD712KR-REEL7TR-ND	Precision Op Amp Dual BiFET	8-SOIC	3171.75/750		
AD713AQ-ND	Precision Op Amp Quad BiFET	14-Dip	11.03	9.93	8.81
AD713BQ-ND	Precision Op Amp Quad BiFET	14-CDip	43.42	39.09	34.66
AD713JNZ-ND	Precision Op Amp Quad BiFET*	14-Dip	8.72	6.98	5.89
AD713JRZ-16-ND	Precision Op Amp Quad BiFET*	16-SOIC	8.72	6.98	5.89
AD743JRZ-16-ND	Op Amp BiFET Low Noise*	16-SOIC	9.52	7.62	6.43
AD744JN-ND	Precision Op Amp BiFET Mono	8-Dip	5.20	4.16	3.24
AD744JNZ-ND	Precision Op Amp BiFET Mono*	8-Dip	4.97	3.98	3.10
AD744JR-ND	Precision Op Amp BiFET Mono	8-SOIC	5.74	4.59	3.57
AD744JRZ-ND	Precision Op Amp BiFET Mono*	8-SOIC	5.49	4.40	3.42
AD744KNZ-ND	Precision Op Amp BiFET Mono*	8-Dip	6.30	5.04	4.26
AD744KRZ-ND	Precision Op Amp BiFET Mono*	8-SOIC	6.94	5.56	4.69
AD746JNZ-ND	Precision Op Amp BiFET Dual*	8-Dip	8.04	6.44	5.43
AD746JRZ-ND	Precision Op Amp BiFET Dual*	8-SOIC	8.04	6.44	5.43
AD781JNZ-ND	Sample and Hold Amp 700nS*	8-Dip	11.80	10.62	9.42
AD817AN-ND	Op Amp High Speed Low Power	8-Dip	4.14	3.32	2.58
AD817ANZ-ND	Op Amp High Speed Low Power*	8-Dip	3.96	3.17	2.47
AD817ARZ-ND	Op Amp High Speed Low Power*	8-SOIC	3.96	3.17	2.47
AD825AR-ND	Op Amp JFET High Speed	8-SOIC	4.32	3.46	2.69
AD825ARZ-ND	Op Amp JFET High Speed*	8-SOIC	4.12	3.30	2.57
AD827JNZ-ND	Op Amp Dual High Speed Low Power*	8-Dip	9.23	8.31	7.37
AD827JRZ-16-ND	Op Amp Dual High Speed Low Power*	16-SOIC	9.23	8.31	7.37
AD841JNZ-ND	Op Amp Fast Settling Wideband Unity-Gain Stable*	14-Dip	7.86	6.29	5.31
AD842JNZ-ND	Op Amp Fast Settling Wideband High Output Current*	14-Dip	8.86	7.09	5.99
AD843JNZ-ND	Op Amp Fast Settling High Speed*	8-Dip	9.42	7.54	6.36
AD843KNZ-ND	Op Amp Fast Settling High Speed*	8-Dip	10.74	8.60	7.25
AD845JNZ-ND	Op Amp Precision 16MHz*	8-Dip	7.04	5.64	4.76
AD845JR-16-ND	Op Amp Precision 16MHz	16-SOIC	8.12	6.50	5.49
AD845JRZ-16-ND	Op Amp Precision 16MHz*	16-SOIC	7.76	6.21	5.24
AD845KNZ-ND	Op Amp Precision 16MHz*	8-Dip	8.14	6.52	5.50
AD8017ARZ-ND	Amp, High Speed, Dual High Out*	8-SOIC	5.31	4.25	3.31
AD8214ARMZ-R7CT-ND	High Voltage Threshold Detector*	8-MSOP	1.95	1.56	1.17
AD8214ARMZ-R7TR-ND	High Voltage Threshold Detector*	8-MSOP	1014.00/1,000		
AD8397ARZ-ND	Op Amp Rail-to-Rail High Output*	8-SOIC	5.45	4.36	3.39
AD8506ARMZ-REELCT-ND	Amp, R-R I/O Zero Crossover Distortion* ***NEW!***	8-MSOP	1.75	1.40	1.05
AD8506ARMZ-REELTR-ND	Amp, R-R I/O Zero Crossover Distortion* ***NEW!***	8-MSOP	2688.00/3,000		
AD8515AKSZ-R2CT-ND	Op Amp 1.8V Rail-to-Rail In/Out Low Power*	SC70-5	1.23	1.03	.82
AD8515AKSZ-R2TR-ND	Op Amp 1.8V Rail-to-Rail In/Out Low Power*	SC70-5	153.75/250		
AD8515ARTZ-R2CT-ND	Op Amp 1.8V Rail-to-Rail In/Out Low Power*	SOT-23-5	1.14	.95	.76
AD8515ARTZ-R2TR-ND	Op Amp 1.8V Rail-to-Rail In/Out Low Power*	SOT-23-5	142.50/250		
AD8515ARTZREEL7CT-ND	Op Amp 1.8V Rail-to-Rail In/Out Low Power*	SOT-23-5	1.12	.84	.63
AD8515ARTZREEL7TR-ND	Op Amp 1.8V Rail-to-Rail In/Out Low Power*	SOT-23-5	936.00/3,000		
AD8519AKSZ-REEL7CT-ND	Op Amp Rail-to-Rail 8MHz*	SC70-5	2.08	1.66	1.25
AD8519AKSZ-REEL7TR-ND	Op Amp Rail-to-Rail 8MHz*	SC70-5	2994.00/3,000		
AD8519ARTZ-REEL7CT-ND	Op Amp Rail-to-Rail 8MHz*	SOT-23-5	2.08	1.66	1.25
AD8519ARTZ-REEL7TR-ND	Op Amp Rail-to-Rail 8MHz*	SOT-23-5	2994.00/3,000		
AD8519ARZ-ND	Op Amp Rail-to-Rail 8MHz*	8-SOIC	2.18	1.74	1.31
AD8529AR-ND	Op Amp Dual Rail-to-Rail Out	8-SOIC	2.70	2.16	1.68
AD8529ARZ-ND	Op Amp Dual Rail-to-Rail Out*	8-SOIC	2.59	2.07	1.61
AD8531AR-ND	Op Amp Single Rail-to-Rail In/Out	8-SOIC	.84	.70	.56
AD8531ARTZ-REEL7CT-ND	Op Amp Single Rail-to-Rail In/Out*	SOT-23-5	.92	.69	.52
AD8531ARTZ-REEL7TR-ND	Op Amp Single Rail-to-Rail In/Out*	SOT-23-5	897.00/3,000		
AD8531ARZ-ND	Op Amp Single Rail-to-Rail In/Out*	8-SOIC	.81	.68	.54
AD8531AKSZ-REEL7CT-ND	Op Amp Single Rail-to-Rail In/Out*	SC70-5	.78	.65	.52
AD8531AKSZ-REEL7TR-ND	Op Amp Single Rail-to-Rail In/Out*	SC70-5	1014.00/3,000		
AD8532ARMZ-R2CT-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	1.48	1.18	.89
AD8532ARMZ-R2TR-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	206.50/250		
AD8532ARUZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-TSSOP	1.35	1.13	.90
AD8532ARZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	1.35	1.13	.90
AD8534ARUZ-ND	Op Amp Single Rail-to-Rail In/Out*	14-TSSOP	1.63	1.30	.98
AD8534ARZ-ND	Op Amp Single Rail-to-Rail In/Out*	14-SOIC	1.63	1.30	.98
AD8541AKSZ-REEL7CT-ND	Op Amp Single Rail-to-Rail In/Out*	SC70-5	.78	.65	.52
AD8541AKSZ-REEL7TR-ND	Op Amp Single Rail-to-Rail In/Out*	SC70-5	1014.00/3,000		
AD8541AR-ND	Op Amp Single Rail-to-Rail In/Out	8-SOIC	.84	.70	.56
AD8541ARZ-ND	Op Amp Single Rail-to-Rail In/Out*	8-SOIC	.81	.68	.54
AD8541ARTZ-REEL7CT-ND	Op Amp Single Rail-to-Rail In/Out*	SOT-23-5	.92	.69	.52
AD8541ARTZ-REEL7TR-ND	Op Amp Single Rail-to-Rail In/Out*	SOT-23-5	897.00/3,000		
AD8542ARZ-REEL7CT-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	1.05	.88	.70
AD8542ARZ-REEL7TR-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	465.50/1,000		
AD8542ARUZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-TSSOP	1.05	.88	.70
AD8542ARZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	1.05	.88	.70
AD8544ARUZ-ND	Op Amp Quad Rail-to-Rail In/Out*	14-TSSOP	1.28	1.02	.77
AD8544ARZ-ND	Op Amp Quad Rail-to-Rail In/Out*	14-SOIC	1.28	1.02	.77
AD8551ARZ-ND	Op Amp Single Rail-to-Rail 0-Drift*	8-SOIC	2.57	2.06	1.60
AD8551ARMZ-REELCT-ND	Op Amp Single Rail-to-Rail 0-Drift*	8-MSOP	2.33	1.86	1.40
AD8551ARMZ-REELTR-ND	Op Amp Single Rail-to-Rail 0-Drift*	8-MSOP	3918.00/3,000		
AD8552AR-ND	Op Amp Dual Rail-to-Rail 0-Drift	8-SOIC	4.23	3.39	2.64
AD8552ARUZ-ND	Op Amp Dual Rail-to-Rail 0-Drift*	8-TSSOP	4.05	3.24	2.52
AD8552ARZ-ND	Op Amp Dual Rail-to-Rail 0-Drift*	8-SOIC	2.70	2.52	2.34
AD8554ARUZ-ND	Op Amp Quad Rail-to-Rail 0-Drift*	14-TSSOP	6.34	5.08	4.28
AD8554ARZ-ND	Op Amp Quad Rail-to-Rail 0-Drift*	14-SOIC	6.34	5.08	4.28
AD8565AKSZ-REEL7CT-ND	Op Amp 16V Rail-to-Rail In/Out*	SC70-5	1.38	1.10	.83
AD8565AKSZ-REEL7TR-ND	Op Amp 16V Rail-to-Rail In/Out*	SC70-5	2112.00/3,000		
AD8566ARMZ-R2CT-ND	Op Amp 16V Rail-to-Rail In/Out*	8-MSOP	3.35	2.69	2.09
AD8566ARMZ-R2TR-ND	Op Amp 16V Rail-to-Rail In/Out*	8-MSOP	495.43/250		
AD8567ACPZ-REEL7CT-ND	Op Amp 16V Rail-to-Rail*	16-LFCSP	2.30	1.84	1.38
AD8567ACPZ-REEL7TR-ND	Op Amp 16V Rail-to-Rail*	16-LFCSP	1794.00/1,500		
AD8567ARUZ-ND	Op Amp 16V Rail-to-Rail*	14-TSSOP	2.50	2.00	1.56
AD8571ARZ-ND	Op Amp Rail-to-Rail In/Out 0-Drift*	8-SOIC	2.86	2.29	1.78
AD8572AR-ND	Op Amp Dual Rail-to-Rail In/Out	8-SOIC	4.79	3.84	2.99
AD8572ARZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	4.59	3.68	2.86
AD8574AR-ND	Op Amp Dual Rail-to-Rail 0-Drift	14-SOIC	7.60	6.08	5.13
AD8574ARZ-ND	Op Amp Dual Rail-to-Rail 0-Drift*	14-SOIC	7.26	5.81	4.91
AD8574ARUZ-ND	Op Amp Dual Rail-to-Rail 0-Drift*	14-TSSOP	7.26	5.81	4.91
AD8592ARM-REELCT-ND	Op Amp Dual Rail-to-Rail with Shutdown	10-MSOP	1.11	.93	.74
AD8592ARM-REELTR-ND	Op Amp Dual Rail-to-Rail with Shutdown	10-MSOP	1443.00/3,000		
AD8592ARMZ-REELCT-ND	Op Amp Dual Rail-to-Rail with Shutdown*	10-MSOP	1.02	.85	.68
AD8592ARMZ-REELTR-ND	Op Amp Dual Rail-to-Rail with Shutdown*	10-MSOP	1326.00/3,000		
AD8594ARZ-ND	Op Amp Dual Rail-to-Rail with Shutdown*	16-SOIC	1.33	1.06	.80
AD8602AR-ND	Op Amp Dual Rail-to-Rail In/Out	8-SOIC	2.08	1.66	1.25
AD8602ARZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	1.88	1.50	1.13
AD8602AR-REEL7CT-ND	Op Amp Dual Rail-to-Rail In/Out	8-SOIC	1.88	1.50	1.13
AD8602ARMZ-REELTR-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	2727.00/3,000		
AD8602ARMZ-R2CT-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	2.23	1.78	1.34
AD8602ARMZ-R2TR-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	311.50/250		
AD8603AUJZREEL7CT-ND	Op Amp CMOS Rail-to-Rail In/Out*	TSOT-23-5	1.68	1.34	1.01
AD8603AUJZREEL7TR-ND	Op Amp CMOS Rail-to-Rail In/Out*	TSOT-23-5	2572.80/3,000		
AD8604AR-ND	Op Amp Quad Rail-to-Rail In/Out	14-SOIC	2.52	2.02	1.57
AD8604ARZ-ND	Op Amp Quad Rail-to-Rail In/Out*	14-SOIC	2.27	1.82	1.42
AD8604ARUZ-ND	Op Amp Quad Rail-to-Rail In/Out*	14-TSSOP	2.32	1.86	1.45
AD8605ART-REEL7CT-ND	Op Amp Single Rail-to-Rail In/Out	SOT-23-5	1.85	1.48	1.11
AD8605ART-REEL7TR-ND	Op Amp Single Rail-to-Rail In/Out	SOT-23-5	2841.60/3,000		
AD8605ARTZREEL7CT-ND	Op Amp Single Rail-to-Rail In/Out*	SOT-23-5	1.68	1.34	1.01
AD8605ARTZREEL7TR-ND	Op Amp Single Rail-to-Rail In/Out*	SOT-23-5	2572.80/3,000		
AD8606AR-ND	Op Amp Dual Rail-to-Rail In/Out	8-SOIC	3.47	2.78	2.16
AD8606ARZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	3.15	2.52	1.96
AD8606ARMZREELCT-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	2.66	2.13	1.66
AD8606ARMZREELTR-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	4460.40/3,000		
AD8607ARZ-ND	Op Amp Dual Rail-to-Rail In/Out Low Noise*	8-SOIC	2.70	2.16	1.68
AD8607ARMZ-REELCT-ND	Op Amp Dual Rail-to-Rail In/Out Low Noise*	8-MSOP	2.27	1.82	1.42
AD8607ARMZ-REELTR-ND	Op Amp Dual Rail-to-Rail In/Out Low Noise*	8-MSOP	3817.80/3,000		
AD8608ARZ-ND	Op Amp Quad Rail-to-Rail In/Out*	14-SOIC	4.16	3.33	2.59
AD8608ARUZ-ND	Op Amp Quad Rail-to-Rail In/Out*	14-TSSOP	4.16	3.33	2.59
AD8609AR-ND	Op Amp Quad Rail-to-Rail CMOS	14-SOIC	5.38	4.31	3.35
AD8609ARZ-ND	Op Amp Quad Rail-to-Rail CMOS*	14-SOIC	4.88	3.91	3.04
AD8609ARU-ND	Op Amp Quad Rail-to-Rail CMOS	14-TSSOP	5.38	4.31	3.35
AD8609ARUZ-ND	Op Amp Quad Rail-to-Rail CMOS*	14-TSSOP	4.88	3.91	3.04
AD8614ARTZ-REEL7CT-ND	Op Amp Single Rail-to-Rail for LCD*	SOT-23-5	2.48	1.98	1.49
AD8614ARTZ-REEL7TR-ND	Op Amp Single Rail-to-Rail for LCD*	SOT-23-5	4185.00/3,000		
AD8617ARMZ-REELCT-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	1.75	1.40	1.05
AD8617ARMZ-REELTR-ND	Op Amp Dual Rail-to-Rail In/Out*	8-MSOP	2688.00/3,000		
AD8617ARZ-ND	Op Amp Dual Rail-to-Rail In/Out*	8-SOIC	2.13	1.70	1.28
AD8629ARMZ-REELCT-ND	Op Amp Zero-Drift, Single Rail-to-Rail In/Out*	8-MSOP	3.26	2.61	2.03
AD8629ARMZ-REELTR-ND	Op Amp Zero-Drift, Single Rail-to-Rail In/Out*	8-MSOP	5481.00/3,000		
AD8629ARZ-ND	Op Amp Zero-Drift, Single Rail-to-Rail In/Out*	8-SOIC	3.87	3.10	2.41
AD8630ARUZ-ND	Op Amp Zero-Drift, Single Rail-to-Rail In/Out*	14-TSSOP	6.40	5.12	4.32
AD8630ARZ-ND	Op Amp Zero-Drift, Single Rail-to-Rail In/Out*	14-SOIC	6.40	5.12	4.32
AD8638ARJZ-REEL7CT-ND	Op Amp 16V Auto-Zero Rail-to-Rail Out* ***NEW!***	SOT-23-5	2.81	2.25	1.75
AD8638ARJZ-REEL7TR-ND	Op Amp 16V Auto-Zero Rail-to-Rail Out* ***NEW!***	SOT-23-5	4725.00/3,000		
AD8638ARZ-ND	Op Amp 16V Auto-Zero Rail-to-Rail Out* ***NEW!***	8-SOIC	3.33	2.67	2.08
AD8642ARZ-ND	Amp JFET Precision Rail-to-Rail Out*	8-SOIC	5.80	4.64	3.92
AD8643ACPZ-REEL7CT-ND	Amp JFET Precision Rail-to-Rail Out*	16-LFCSP	7.60	6.08	5.13
AD8643ACPZ-REEL7TR-ND	Amp JFET Precision Rail-to-Rail Out*	16-LFCSP	7125.00/1,500		
AD8643ARZ-ND	Amp JFET Precision Rail-to-Rail Out*	14-SOIC	9.50	7.60	6.42
AD8647ARMZ-REELCT-ND	Amp, 24MHz Rail-to-Rail with Shutdown* ***NEW!***	10-MSOP	1.50	1.20	.90
AD8647ARMZ-REELTR-ND	Amp, 24MHz Rail-to-Rail with Shutdown* ***NEW!***	10-MSOP	2304.00/3,000		
AD8648ARUZ-ND	Amp Quad 24MHz Rail-to-Rail*	14-TSSOP	2.48	1.98	1.54
AD8648ARZ-ND	Amp Quad 24MHz Rail-to-Rail*	14-SOIC	2.48	1.98	1.54
AD8652ARZ-ND	Op Amp 50MHz, Precision CMOS*	8-SOIC	5.40	4.32	3.36
AD8661ACPZ-REEL7CT-ND	Op Amp Rail-to-Rail Precision 16V*	8-LFCSP	1.95	1.56	1.17
AD8661ACPZ-REEL7TR-ND	Op Amp Rail-to-Rail Precision 16V*	8-LFCSP	1521.00/1,500		
AD8661ARZ-ND	Op Amp Rail-to-Rail Precision 16V*	8-SOIC	2.38	1.90	1.43
AD8662ARZ-ND	Op Amp Rail-to-Rail Precision 16V*	8-SOIC	3.69	2.96	2.30
AD8663ACPZ-REEL7CT-ND	Op Amp Rail-to-Rail Precision 16V*	8-LFCSP	1.60	1.28	.96
AD8663ACPZ-REEL7TR-ND	Op Amp Rail-to-Rail Precision 16V*	8-LFCSP	1248.00/1,500		
AD8663ARZ-ND	Op Amp Rail-to-Rail Precision 16V*	8-SOIC	1.75	1.40	1.05
AD8664ARUZ-ND	Op Amp Rail-to-Rail Precision 16V*	14-TSSOP	5.36	4.29	3.62
AD8664ARZ-ND	Op Amp Rail-to-Rail Precision 16V*	14-SOIC	5.36	4.29	3.62
AD8665ARJZ-REEL7CT-ND	Op Amp 16V, 4MHz Rail-to-Rail*	SOT-23-5	1.47	1.23	.98
AD8665ARJZ-REEL7TR-ND	Op Amp 16V, 4MHz Rail-to-Rail*	SOT-23-5	1911.00/3,000		
AD8665ARZ-ND	Op Amp 16V, 4MHz Rail-to-Rail*	8-SOIC	1.50	1.20	.90
AD8666ARZ-ND	Op Amp 16V, 4MHz Rail-to-Rail*	8-SOIC	2.38	1.90	1.43
AD8667ARMZ-REELCT-ND	Op Amp 16V, Precision Dual Rail-to-Rail*	8-MSOP	1.73	1.38	1.04
AD8667ARMZ-REELTR-ND	Op Amp 16V, Precision Dual Rail-to-Rail*	8-MSOP	2649.00/3,000		
AD8667ARZ-ND	Op Amp 16V, Precision Dual Rail-to-Rail*	8-SOIC	1.98	1.58	1.19
AD8668ARUZ-ND	Op Amp 16V, 4MHz Rail-to-Rail*	14-TSSOP	4.12	3.30	2.57

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD8668ARZ-ND	Op Amp 16V, 4MHz Rail-to-Rail*	14-SOIC	4.12	3.30	2.57
AD8669ARZ-ND	Op Amp 16V, 4MHz Precision Rail-to-Rail* ***NEW!***	14-SOIC	2.97	2.38	1.85
AD8675ARZ-ND	Op Amp 36V Precision Rail-to-Rail*	8-SOIC	3.13	2.51	1.95
AD8676ARMZ-REELCT-ND	Op Amp 36V Precision Dual Rail-to-Rail*	8-MSOP	3.69	2.96	2.30
AD8676ARMZ-REELTR-ND	Op Amp 36V Precision Dual Rail-to-Rail*	8-MSOP	6198.00/3,000		
AD8676ARZ-ND	Op Amp 36V Precision Dual Rail-to-Rail*	8-SOIC	4.39	3.51	2.73
AD8676BRMZ-REELCT-ND	Op Amp 36V Precision Dual Rail-to-Rail*	8-MSOP	4.75	3.80	2.96
AD8676BRMZ-REELTR-ND	Op Amp 36V Precision Dual Rail-to-Rail*	8-MSOP	7977.00/3,000		
AD8676BRZ-ND	Op Amp 36V Precision Dual Rail-to-Rail*	8-SOIC	5.00	4.00	3.38
AD8677ARZ-ND	Op Amp 130µV Offset Voltage*	8-SOIC	2.45	1.96	1.47
AD8677AUJZ-REEL7CT-ND	Op Amp 130µV Offset Voltage*	8-SOIC	1.88	1.50	1.13
AD8677AUJZ-REEL7TR-ND	Op Amp 130µV Offset Voltage*	8-SOIC	2880.00/3,000		
AD8682ARMZ-REELCT-ND	Op Amp Dual Low Power, High Speed, JFET*	8-MSOP	3.69	2.96	2.30
AD8682ARMZ-REELTR-ND	Op Amp Dual Low Power, High Speed, JFET*	8-MSOP	6198.00/3,000		
AD8682ARZ-ND	Op Amp Dual Low Power, High Speed, JFET*	8-SOIC	4.66	3.73	2.90
AD8684ARUZ-ND	Op Amp Quad Low Power, High Speed, JFET*	14-TSSOP	5.90	4.72	3.99
AD8684ARZ-ND	Op Amp Quad Low Power, High Speed, JFET*	14-SOIC	5.90	4.72	3.99
AD9631ANZ-ND	Op Amp Voltage-Feedback*	8-Dip	9.52	7.62	6.43
AD9632ARZ-ND	Op Amp Voltage-Feedback*	8-SOIC	9.18	7.35	6.20
AD9665ACPZ-REEL7CT-ND	4-Channel, LVDS, Dual Output, Laser Diode Driver with Oscillator*	32-LFCSP	6.48	5.19	4.38
AD9665ACPZ-REEL7TR-ND	4-Channel, LVDS, Dual Output, Laser Diode Driver with Oscillator*	32-LFCSP	6075.00/1,500		
ADA4310-1ACPZ-R7CT-ND	Op Amp, High Speed, Current Feedback*	16-LFCSP	3.38	2.70	2.10
ADA4310-1ACPZ-R7TR-ND	Op Amp, High Speed, Current Feedback*	16-LFCSP	2869.50/1,500		
ADA4310-1ARHZ-ND	Op Amp, High Speed, Current Feedback*	10-MSOP	3.69	2.96	2.30
ADA4311-1ARHZ-R7CT-ND	Op Amp, 2 High Speed, Current Feedback*	10-MSOP	3.69	2.96	2.30
ADA4311-1ARHZ-R7TR-ND	Op Amp, 2 High Speed, Current Feedback*	10-MSOP	2091.00/1,000		
ADA4841-1YRJZ-R7CT-ND	Op Amp Low Noise/Low Distortion Rail-to-Rail*	SOT-23-6	3.58	2.87	2.23
ADA4841-1YRJZ-R7TR-ND	Op Amp Low Noise/Low Distortion Rail-to-Rail*	SOT-23-6	6010.20/3,000		
ADA4841-1YRZ-R7CT-ND	Op Amp Low Noise/Low Distortion Rail-to-Rail*	8-SOIC	3.58	2.87	2.23
ADA4841-1YRZ-R7TR-ND	Op Amp Low Noise/Low Distortion Rail-to-Rail*	8-SOIC	2027.25/1,000		
ADA4841-2YRMZ-ND	Op Amp Low Noise/Low Distortion Rail-to-Rail*	8-MSOP	5.38	4.31	3.64
ADA4841-2YRZ-ND	Op Amp Low Noise/Low Distortion Rail-to-Rail*	8-SOIC	5.38	4.31	3.64
ADA4851-1YRJZR2CT-ND	Op Amp High Speed Rail-to-Rail*	SOT-23-6	1.73	1.38	1.04
ADA4851-1YRJZR2TR-ND	Op Amp High Speed Rail-to-Rail*	SOT-23-6	241.50/250		
ADA4851-2YRMZ-ND	Op Amp High Speed Rail-to-Rail*	8-MSOP	2.15	1.72	1.29
ADA4851-4YRUZ-ND	Op Amp High Speed Rail-to-Rail*	14-TSSOP	3.06	2.45	1.91
ADA4853-1AKSZ-R2CT-ND	Op Amp Video, Rail-to-Rail Output*	SC70-6	1.73	1.38	1.04
ADA4853-1AKSZ-R2TR-ND	Op Amp Video, Rail-to-Rail Output*	SC70-6	241.50/250		
ADA4853-2YCPZ-RL7CT-ND	Op Amp Video, Rail-to-Rail Output*	16-LFCSP	1.73	1.38	1.04
ADA4853-2YCPZ-RL7TR-ND	Op Amp Video, Rail-to-Rail Output*	16-LFCSP	1345.50/1,500		
ADA4853-3YCPZ-R7CT-ND	Op Amp Video, Rail-to-Rail Output*	16-LFCSP	2.13	1.70	1.28
ADA4853-3YCPZ-R7TR-ND	Op Amp Video, Rail-to-Rail Output*	16-LFCSP	1657.50/1,500		
ADA4853-3YRUZ-ND	Op Amp Video, Rail-to-Rail Output*	14-TSSOP	2.39	1.91	1.49
ADA4861-3YRZ-ND	Op Amp Triple High Speed*	14-SOIC	2.68	2.15	1.67
ADA4862-3YRZ-ND	Op Amp Triple High Speed*	14-SOIC	2.68	2.15	1.67
ADA4899-1YCPZ-R7CT-ND	Op Amp Unity Gain Stable, Ultralow Distortion*	8-LFCSP	4.25	3.41	2.65
ADA4899-1YCPZ-R7TR-ND	Op Amp Unity Gain Stable, Ultralow Distortion*	8-LFCSP	3614.63/1,500		
ADA4899-1YRDZ-ND	Op Amp Unity Gain Stable, Ultralow Distortion*	8-SOIC	5.00	4.00	3.11
ADA4941-1YRZ-ND	Single Supply Differential 18-Bit ADC Driver*	8-SOIC	5.62	4.50	3.80
ADEL2020ANZ-ND	Improved Second Source to the EL2020*	8-Dip	4.97	3.98	3.10
ADN2525ACPZ-R2CT-ND	10.7 Gbps Active Back-Termination Differential Laser Diode Driver* ***NEW!***	16-LFCSP	47.01	43.88	40.75
ADN2525ACPZ-R2TR-ND	10.7 Gbps Active Back-Termination Differential Laser Diode Driver* ***NEW!***	16-LFCSP	9989.63/250		
ADM1191-2ARMZ-R7CT-ND	Digital Power Monitor*	10-MSOP	4.28	3.42	2.66
ADM1191-2ARMZ-R7TR-ND	Digital Power Monitor*	10-MSOP	2422.50/1,000		
EVAL-ADM1191EBZ-ND	Evaluation Board for ADM1191*	—	150.00	—	—
ADM1192-1ARMZ-R7CT-ND	Digital Power Monitor*	10-MSOP	4.28	3.42	2.66
ADM1192-1ARMZ-R7TR-ND	Digital Power Monitor*	10-MSOP	2422.50/1,000		
EVAL-ADM1192EBZ-ND	Evaluation Board for ADM1192*	—	150.00	—	—
ADTL082ARZ-ND	Op Amp JFET Input*	8-SOIC	.90	.75	.60
ADTL082JRZ-ND	Op Amp JFET Input*	8-SOIC	.84	.70	.56
ADTL084ARUZ-ND	Op Amp JFET Input*	14-TSSOP	1.26	1.05	.84
ADTL084ARZ-ND	Op Amp JFET Input*	14-SOIC	1.14	.95	.76
ADTL084JRZ-ND	Op Amp JFET Input*	14-SOIC	1.02	.85	.68
OP11EPZ-ND	Op Amp Quad 741-Type*	14-Dip	10.25	9.23	8.18
OP179GRTZ-REEL7CT-ND	Op Amp Rail-to-Rail In/Out*	SOT-23-5	1.30	1.04	.78
OP179GRTZ-REEL7TR-ND	Op Amp Rail-to-Rail In/Out*	SOT-23-5	2340.00/3,000		
OP183GSZ-ND	Op Amp 5MHz Low Noise*	8-SOIC	3.69	2.96	2.30
OP200EZ-ND	Op Amp Dual Low Offset*	8-CDip	12.10	10.89	9.66
OP275GSZ-REEL7CT-ND	Op Amp Dual Bipolar/JFET, Audio*	8-SOIC	2.03	1.62	1.22
OP275GSZ-REEL7TR-ND	Op Amp Dual Bipolar/JFET, Audio*	8-SOIC	1157.00/1,000		
OP279GSZ-ND	Op Amp Dual Single Supply Rail-to-Rail 60mA*	8-SOIC	2.81	2.25	1.75
OP281GSZ-ND	Op Amp Rail-to-Rail Out, Ultralow Power*	8-SOIC	4.90	3.92	3.31
OP291GSZ-ND	Op Amp Dual Single Supply Rail-to-Rail*	8-SOIC	4.68	3.75	2.92
OP292GSZ-ND	Op Amp Dual Single Supply*	8-SOIC	3.33	2.67	2.08
OP293ESZ-ND	Op Amp Dual Micropower Rail-to-Rail*	8-SOIC	9.70	7.76	6.55
OP293FSZ-ND	Op Amp Dual Micropower Rail-to-Rail*	8-SOIC	4.97	3.98	3.10
OP293FSZ-REEL7CT-ND	Op Amp Dual Micropower Rail-to-Rail*	8-SOIC	4.52	3.62	2.82
OP293FSZ-REEL7TR-ND	Op Amp Dual Micropower Rail-to-Rail*	8-SOIC	2818.00/1,000		
OP295GPZ-ND	Op Amp Dual Rail-to-Rail*	8-Dip	4.48	3.59	2.79
OP295GS-REEL7TR-ND	Op Amp Dual Rail-to-Rail	8-SOIC	2588.00/1,000		
OP295GSZ-ND	Op Amp Dual Rail-to-Rail*	8-SOIC	4.37	3.50	2.72
OP296GSZ-ND	Op Amp Dual Rail-to-Rail Low Power*	8-SOIC	3.92	3.14	2.44
OP400AY-ND	Op Amp Quad Low Offset	14-CDip	33.03	30.83	28.63
OP400EY-ND	Op Amp Quad Low Offset	14-CDip	17.43	15.69	13.92
OP400FY-ND	Op Amp Quad Low Offset	14-CDip	11.80	10.62	9.42
OP400GPZ-ND	Op Amp Quad Low Offset*	14-Dip	9.64	7.72	6.51
OP400GSZ-ND	Op Amp Quad Low Offset*	16-SOIC	9.64	7.72	6.51
OP400HPZ-ND	Op Amp Quad Low Offset*	14-Dip	10.52	8.42	7.11
OP400HSZ-ND	Op Amp Quad Low Offset*	16-SOIC	10.52	8.42	7.11
OP492GSZ-ND	Op Amp Quad Single Supply*	14-SOIC	5.76	4.61	3.59
OP495GSZ-ND	Op Amp Quad Rail-to-Rail*	16-SOIC	8.54	6.84	5.77
SMP04EPZ-ND	Amp Quad Sample-Hold*	16-Dip	9.10	8.19	7.27
SMP04ESZ-ND	Amp Quad Sample-Hold*	16-SOIC	9.20	8.28	7.35
SMP08FSZ-ND	Amp Octal Sample-Hold*	16-SOIC	14.54	13.10	11.62

High-Speed

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD585AQ-ND	Precision Sample and Hold Amp Mono High Speed	14-Dip	27.23	25.41	23.60
AD810AN-ND	Current-Feedback Amp Video Low Power	8-Dip	5.45	4.36	3.39
AD810ANZ-ND	Current-Feedback Amp Video Low Power*	8-Dip	4.93	3.95	3.07
AD810ARZ-ND	Current-Feedback Amp Video Low Power*	8-SOIC	4.93	3.95	3.07
AD811ANZ-ND	High Performance Video Op Amp*	8-Dip	7.68	6.15	5.19
AD811ARZ-16-ND	High Performance Video Op Amp*	16-SOIC	8.44	6.76	5.70
AD811ARZ-20-ND	High Performance Video Op Amp*	20-SOIC	8.44	6.76	5.70
AD811JRZ-ND	Current-Feedback Amp Video High Speed*	8-SOIC	7.68	6.15	5.19
AD812ANZ-ND	Current-Feedback Amp Dual Low Power*	8-Dip	5.84	4.68	3.95
AD812ARZ-ND	Current-Feedback Amp Dual Low Power*	8-SOIC	5.84	4.68	3.95
AD826ANZ-ND	Op Amp Dual High Speed Low Power*	8-Dip	5.47	4.38	3.41
AD826AR-REEL7CT-ND	Op Amp Dual High Speed Low Power	8-SOIC	4.97	3.98	3.10
AD826AR-REEL7TR-ND	Op Amp Dual High Speed Low Power	8-SOIC	2486.25/750		
AD826ARZ-ND	Op Amp Dual High Speed Low Power*	8-SOIC	5.47	4.38	3.41
AD827AQ-ND	Op Amp Dual High Speed Low Power	8-CDip	13.26	11.94	10.59
AD829ARZ-ND	Video Op Amp Low Noise High Speed*	8-SOIC	5.87	4.70	3.66
AD829JNZ-ND	Video Op Amp Low Noise High Speed*	8-Dip	6.16	4.93	4.16
AD829JR-ND	Video Op Amp Low Noise High Speed	8-SOIC	6.44	5.16	4.35
AD829JR-REEL7TR-ND	Video Op Amp Low Noise High Speed	8-SOIC	3066.75/750		
AD829JRZ-ND	Video Op Amp Low Noise High Speed*	8-SOIC	6.16	4.93	4.16
AD843JRZ-16-ND	34MHz, CBFET Fast Settling Op Amp*	16-SOIC	10.38	8.31	7.01
AD844ANZ-ND	Op Amp Mono 60MHz*	8-Dip	6.40	5.12	4.32
AD844JRZ-16-ND	Op Amp Mono 60MHz*	16-SOIC	7.34	5.88	4.96
AD847AQ-ND	Op Amp Mono 50MHz High Speed	8-CDip	8.36	6.69	5.65
AD847ARZ-ND	Op Amp Mono 50MHz High Speed*	8-SOIC	6.40	5.12	4.32
AD847JN-ND	Op Amp Mono 50MHz High Speed	8-Dip	6.08	4.87	4.11
AD847JNZ-ND	Op Amp Mono 50MHz High Speed*	8-Dip	5.82	4.66	3.93
AD847JRZ-ND	Op Amp Mono 50MHz High Speed*	8-SOIC	7.26	5.81	4.91
AD848JNZ-ND	Op Amp Mono 175MHz High Speed*	8-Dip	5.86	4.69	3.96
AD848JRZ-ND	Op Amp Mono 175MHz High Speed*	8-SOIC	5.86	4.69	3.96
AD8000YCPZ-REEL7CT-ND	Op Amp 1.5GHz Ultra High Speed*	8-LFCSP	3.78	3.03	2.36
AD8000YCPZ-REEL7TR-ND	Op Amp 1.5GHz Ultra High Speed*	8-LFCSP	3213.00/1,500		
AD8000YRDZ-ND	Op Amp 1.5GHz Ultra High Speed*	8-SOIC	4.07	3.26	2.54
AD8001ANZ-ND	Current-Feedback Amp, 800MHz*	8-Dip	7.16	5.73	4.84
AD8001ARTZREEL7CT-ND	Current-Feedback Amp, 800MHz*	SOT-23-5	3.35	2.69	2.09
AD8001ARTZREEL7TR-ND	Current-Feedback Amp, 800MHz*	SOT-23-5	5632.20/3,000		
AD8001ARZ-ND	Current-Feedback Amp, 800MHz*	8-SOIC	7.16	5.73	4.84
AD8002ARZ-ND	Current-Feedback Amp Dual, 600MHz*	8-SOIC	7.12	5.70	4.81
AD8002ARMZ-ND	Current-Feedback Amp Dual, 600MHz*	8-MSOP	7.02	5.62	4.37
AD8003ACPZ-REEL7CT-ND	Op Amp Triple, 1.5GHz*	24-LFCSP	5.78	4.63	3.91
AD8003ACPZ-REEL7TR-ND	Op Amp Triple, 1.5GHz*	24-LFCSP	5418.75/1,500		
AD8004ANZ-ND	Current-Feedback Amp Quad*	14-Dip	8.53	7.68	6.81
AD8004ARZ-14-ND	Current-Feedback Amp Quad*	14-SOIC	8.53	7.68	6.81
AD8007AKSZ-REEL7CT-ND	Current-Feedback Amp, 650MHz*	SC70-5	2.95	2.36	1.84
AD8007AKSZ-REEL7TR-ND	Current-Feedback Amp, 650MHz*	SC70-5	4951.80/3,000		
AD8007AR-ND	Current-Feedback Amp, 650MHz	8-SOIC	3.62	2.90	2.26
AD8007ARZ-ND	Current-Feedback Amp, 650MHz*	8-SOIC	3.47	2.78	2.16
AD8008ARZ-ND	Current-Feedback Amp Dual*	8-SOIC	5.14	4.12	3.47
AD8008ARMZ-ND	Current-Feedback Amp Dual*	8-MSOP	5.14	4.12	3.47
AD8009AR-ND	Current-Feedback Amp, 1GHz	8-SOIC	4.84	3.87	3.01
AD8009ARZ-ND	Current-Feedback Amp, 1GHz*	8-SOIC	4.64	3.71	2.89
AD8009AR-REEL7CT-ND	Current-Feedback Amp, 1GHz	8-SOIC	4.84	3.87	3.01
AD8009AR-REEL7TR-ND	Current-Feedback Amp, 1GHz	8-SOIC	2096.25/750		
AD8009JRT-REEL7CT-ND	Current-Feedback Amp, 1GHz	SOT-23-5	4.12	3.30	2.57
AD8009JRT-REEL7TR-ND	Current-Feedback Amp, 1GHz	SOT-23-5	6917.40/3,000		
AD8009JRTZ-REEL7CT-ND	Current-Feedback Amp, 1GHz*	SOT-23-5	3.94	3.15	2.45
AD8009JRTZ-REEL7TR-ND	Current-Feedback Amp, 1GHz*	SOT-23-5	6615.00/3,000		
AD8010AN-ND	Op Amp Low Power High Speed	8-Dip	6.74	5.40	4.55
AD8010ARZ-ND	Op Amp Low Power High Speed*	8-SOIC	6.12	4.90	4.14
AD8011ANZ-ND	Current-Feedback Amp, 300MHz*	8-Dip	4.86	3.89	3.03
AD8011AR-ND	Current-Feedback Amp, 300MHz	8-SOIC	5.33	4.27	3.32
AD8011ARZ-ND	Current-Feedback Amp, 300MHz*	8-SOIC	4.86	3.89	3.03
AD8011AR-REEL7CT-ND	Current-Feedback Amp, 300MHz	8-SOIC	5.33	4.27	3.32
AD8011AR-REEL7TR-ND	Current-Feedback Amp, 300MHz	8-SOIC	2310.75/750		
AD8012ARMZ-ND	Current-Feedback Dual Amp, 350MHz*	8-MSOP	5.54	4.43	3.45
AD8012ARZ-ND	Current-Feedback Dual Amp, 350MHz*	8-SOIC	5.54	4.43	3.45
AD8013AR-14-ND	Op Amp Single Supply	14-SOIC	11.16	8.93	7.54
AD8014ART-REEL7CT-ND	Current-Feedback Amp, 400MHz	SOT-23-5	2.95	2.36	1.84
AD8014ARTZ-REEL7CT-ND	Current-Feedback Amp, 400MHz*	SOT-23-5	2.68	2.15	1.67
AD8014ARTZ-REEL7TR-ND	Current-Feedback Amp, 400MHz*	SOT-23-5	4498.20/3,000		
AD8014ARZ-ND	Current-Feedback Amp, 400MHz*	8-SOIC	3.06	2.45	1.91
AD8021ARZ-ND	Voltage-Feedback Amp, 200MHz HS*	8-SOIC	3.42	2.74	2.13
AD8021ARM-ND	Voltage-Feedback Amp, 200MHz HS	8-MSOP	3.76	3.01	2.34
AD8021ARMZ-ND	Voltage-Feedback Amp, 200MHz HS*	8-MSOP	3.42	2.74	2.13
AD8022ARMZ-ND	Op Amp Dual HS Low Noise*	8-MSOP	5.10	4.08	3.45
AD8022ARZ-ND	Op Amp Dual HS Low Noise*	8-SOIC	5.10	4.08	3.45
AD8024ARZ-ND	Amp Quad 24V 350MHz*	16-SOIC	8.88	7.11	6.00
AD8027ARZ-ND	Op Amp Rail-to-Rail In/Out High Speed*	8-SOIC	3.15	2.52	1.96
AD8027ARTZ-REEL7CT-ND	Op Amp Rail-to-Rail In/Out High Speed*	SOT-23-6	2.68	2.15	1.67
AD8027ARTZ-REEL7TR-ND	Op Amp Rail-to-Rail In/Out High Speed*	SOT-23-6	4497.00/3,000		
AD8028ARM-ND	Op Amp Rail-to-Rail In/Out High Speed	10-MSOP	5.49	4.40	3.42
AD8028ARMZ-ND	Op Amp Rail-to-Rail In/Out High Speed*	10-MSOP	5.00	4.00	3.11
AD8028ARZ-ND	Op Amp Rail-to-Rail In/Out High Speed*	8-SOIC	5.00	4.00	3.11
AD8029AKS-R2CT-ND	Op Amp Rail-to-Rail In/Out High Speed Low Power	SC70-6	2.97	2.38	1.85
AD8029AKS-R2TR-ND	Op Amp Rail-to-Rail In/Out High Speed Low Power	SC70-6	439.00/250		
AD8029AKSZ-REEL7CT-ND	Op Amp Rail-to-Rail In/Out High Speed Low Power*	SC70-6	2.13	1.70	1.28
AD8029AKSZ-REEL7TR-ND	Op Amp Rail-to-Rail In/Out High Speed Low Power*	SC70-6	3264.00/3,000		
AD8029ARZ-ND	Op Amp Rail-to-Rail In/Out High Speed Low Power*	8-SOIC	2.25	1.80	1.40
AD8030ARZ-ND	Op Amp Rail-to-Rail In/Out High Speed Low Power*	8-SOIC	3.17	2.54	1.98
AD8030ARJZ-REEL7CT-ND	Op Amp Dual Rail-to-Rail In/Out High Speed LP*	SOT-23-8	2.70	2.16	1.68
AD8030ARJZ-REEL7TR-ND	Op Amp Dual Rail-to-Rail In/Out High Speed LP*	SOT-23-8	4536.00/3,000		
AD8031ANZ-ND	Voltage-Feedback Amp Single Rail-to-Rail*	8-Dip	2.86	2.29	1.78
AD8031ARZ-ND	Voltage-Feedback Amp Single Rail-to-Rail*	8-SOIC	2.86	2.29	1.78
AD8031ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single Rail-to-Rail*	SOT-23-5	2.52	2.02	1.57
AD8031ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single Rail-to-Rail*	SOT-23-5	4233.00/3,000		
AD8031BNZ-ND	Voltage-Feedback Amp Single Rail-to-Rail*	8-Dip	4.79	3.84	2.99
AD8031BRZ-ND	Voltage-Feedback Amp Single Rail-to-Rail*	8-SOIC	4.79	3.84	2.99
AD8032ANZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-Dip	4.43	3.55	2.76
AD8032AR-ND	Voltage-Feedback Amp Dual Rail-to-Rail	8-SOIC	4.88	3.91	3.04
AD8032ARMZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-MSOP	4.43	3.55	2.76
AD8032ARZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-SOIC	4.43	3.55	2.76
AD8032BNZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-Dip	6.18	4.95	4.18
AD8032BRZ-REEL7CT-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-SOIC	6.18	4.95	4.18
AD8032BRZ-REEL7TR-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-SOIC	2943.00/750		
AD8033AKSZ-REEL7CT-ND	Voltage-Feedback Amp with *FastFET*™*	SC70-5	2.30	1.84	1.43

*** *RoHS Compliant***

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8033AKSZ-REEL7TR-ND	Voltage-Feedback Amp with *FastFET*™*	SC70-5	3855.60/3,000		
AD8033ARZ-ND	Voltage-Feedback Amp with *FastFET*™*	8-SOIC	2.81	2.25	1.75
AD8034ARTZ-REEL7CT-ND	Voltage-Feedback Amp Dual with *FastFET*™*	SOT-23-8	3.58	2.87	2.23
AD8034ARTZ-REEL7TR-ND	Voltage-Feedback Amp Dual with *FastFET*™*	SOT-23-8	6010.20/3,000		
AD8034ARZ-ND	Voltage-Feedback Amp Dual with *FastFET*™*	8-SOIC	4.21	3.37	2.62
AD8036ANZ-ND	Voltage-Feedback Clamp Amp*	8-Dip	8.40	7.56	6.71
AD8036ARZ-ND	Voltage-Feedback Clamp Amp*	8-SOIC	8.40	7.56	6.71
AD8037ANZ-ND	Voltage-Feedback Amp Output Clamping*	8-Dip	9.70	7.76	6.55
AD8037ARZ-ND	Voltage-Feedback Amp Output Clamping*	8-SOIC	9.70	7.76	6.55
AD8038AKSZ-REEL7CT-ND	Voltage-Feedback Amp 350MHz Low Power*	SC70-5	2.13	1.70	1.28
AD8038AKSZ-REEL7TR-ND	Voltage-Feedback Amp 350MHz Low Power*	SC70-5	3264.00/3,000		
AD8038ARZ-ND	Voltage-Feedback Amp 350MHz Low Power*	8-SOIC	2.25	1.80	1.40
AD8039AR-ND	Voltage-Feedback Amp 350MHz Low Power	8-SOIC	3.49	2.79	2.17
AD8039ARZ-ND	Voltage-Feedback Amp 350MHz Low Power*	8-SOIC	3.17	2.54	1.98
AD8039ARTZREEL7CT-ND	Voltage-Feedback Amp 350MHz Low Power*	SOT-23-8	2.70	2.16	1.68
AD8039ARTZREEL7TR-ND	Voltage-Feedback Amp 350MHz Low Power*	SOT-23-8	4536.00/3,000		
AD8040AR-ND	Low Power, High Speed, R-R In/Out Amp	14-SOIC	4.66	3.73	2.90
AD8040ARZ-ND	Low Power, High Speed, R-R In/Out Amp*	14-SOIC	4.23	3.39	2.64
AD8041ANZ-ND	Voltage-Feedback Amp with Disable*	8-Dip	4.12	3.30	2.57
AD8041ARZ-ND	Voltage-Feedback Amp with Disable*	8-SOIC	4.12	3.30	2.57
AD8042ARZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-SOIC	5.13	4.11	3.20
AD8044ANZ-ND	Voltage-Feedback Amp Rail-to-Rail Quad*	14-Dip	8.00	6.40	5.40
AD8044ARZ-14-ND	Voltage-Feedback Amp Rail-to-Rail Quad*	14-SOIC	8.00	6.40	5.40
AD8045ACPZ-REEL7CT-ND	Voltage-Feedback Amp Ultralow Distortion*	8-LFCSP	3.13	2.51	1.95
AD8045ACPZ-REEL7TR-ND	Voltage-Feedback Amp Ultralow Distortion*	8-LFCSP	2658.38/1,500		
AD8045ARDZ-ND	Voltage-Feedback Amp Ultralow Distortion*	8-SOIC	3.69	2.96	2.30
AD8047ANZ-ND	Voltage-Feedback Amp 250MHz*	8-Dip	5.33	4.27	3.32
AD8047ARZ-ND	Voltage-Feedback Amp 250MHz*	8-SOIC	5.33	4.27	3.32
AD8048ARZ-ND	Voltage-Feedback Amp General Purpose*	8-SOIC	4.86	3.89	3.03
AD8051ARZ-ND	Voltage-Feedback Amp Single High Speed*	8-SOIC	2.13	1.70	1.28
AD8051ART-REEL7CT-ND	Voltage-Feedback Amp Single High Speed	SOT-23-5	2.13	1.70	1.28
AD8051ART-REEL7TR-ND	Voltage-Feedback Amp Single High Speed	SOT-23-5	3609.00/3,000		
AD8051ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single High Speed*	SOT-23-5	2.13	1.70	1.28
AD8051ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single High Speed*	SOT-23-5	3264.00/3,000		
AD8052ARZ-ND	Voltage-Feedback Amp Dual High Speed*	8-SOIC	3.65	2.92	2.27
AD8052ARMZ-ND	Voltage-Feedback Amp Dual High Speed*	8-MSOP	3.65	2.92	2.27
AD8054AR-REEL7CT-ND	Voltage-Feedback Amp Quad High Speed	14-SOIC	6.34	5.08	4.28
AD8054ARZ-ND	Voltage-Feedback Amp Quad High Speed*	14-SOIC	5.76	4.61	3.89
AD8054ARUZ-ND	Voltage-Feedback Amp Quad High Speed*	14-TSSOP	6.06	4.85	4.10
AD8055ANZ-ND	Voltage-Feedback Amp Single*	8-Dip	2.15	1.72	1.29
AD8055ARZ-ND	Voltage-Feedback Amp Single*	8-SOIC	2.15	1.72	1.29
AD8055ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single*	SOT-23-5	1.83	1.46	1.10
AD8055ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single*	SOT-23-5	2802.00/3,000		
AD8056AR-REEL7TR-ND	Voltage-Feedback Amp Dual	8-SOIC	1735.50/750		
AD8056ARMZ-ND	Voltage-Feedback Amp Dual*	8-MSOP	3.65	2.92	2.27
AD8056ARZ-ND	Voltage-Feedback Amp Dual*	8-SOIC	3.65	2.92	2.27
AD8057AR-ND	Voltage-Feedback Amp Single	8-SOIC	2.38	1.90	1.43
AD8057ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single*	SOT-23-5	1.83	1.46	1.10
AD8057ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single*	SOT-23-5	2802.00/3,000		
AD8057ARZ-ND	Voltage-Feedback Amp Single*	8-SOIC	2.15	1.72	1.29
AD8058ARMZ-ND	Voltage-Feedback Amp Dual*	8-MSOP	3.65	2.92	2.27
AD8058ARZ-ND	Voltage-Feedback Amp Dual*	8-SOIC	3.65	2.92	2.27
AD8061ARTZ-REEL7CT-ND	Voltage-Feedback Amp Rail-to-Rail*	SOT-23-5	1.83	1.46	1.10
AD8061ARTZ-REEL7TR-ND	Voltage-Feedback Amp Rail-to-Rail*	SOT-23-5	2802.00/3,000		
AD8062ARZ-ND	Voltage-Feedback Amp Rail-to-Rail*	8-SOIC	3.65	2.92	2.27
AD8062ARM-ND	Voltage-Feedback Amp Rail-to-Rail	8-MSOP	4.01	3.21	2.50
AD8062ARMZ-R7CT-ND	Voltage-Feedback Amp Rail-to-Rail*	8-MSOP	3.65	2.92	2.27
AD8062ARMZ-R7TR-ND	Voltage-Feedback Amp Rail-to-Rail*	8-MSOP	2066.00/1,000		
AD8063ARZ-ND	Voltage-Feedback Amp Rail-to-Rail*	8-SOIC	2.13	1.70	1.28
AD8065ARZ-ND	Voltage-Feedback Amp Single High Speed*	8-SOIC	4.21	3.37	2.62
AD8065ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single High Speed*	SOT-23-5	3.58	2.87	2.23
AD8065ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single High Speed*	SOT-23-5	6010.20/3,000		
AD8066ARZ-ND	Voltage-Feedback Amp Dual High Speed*	8-SOIC	5.38	4.31	3.64
AD8066ARMZ-ND	Voltage-Feedback Amp Dual High Speed*	8-MSOP	5.38	4.31	3.64
AD8067ART-R2CT-ND	Precision *FastFET*™ Op Amp	SOT-23-5	7.10	5.68	4.80
AD8067ART-R2TR-ND	Precision *FastFET*™ Op Amp	SOT-23-5	1153.75/250		
AD8067ARTZ-REEL7CT-ND	Precision *FastFET*™ Op Amp*	SOT-23-5	5.15	4.13	3.21
AD8067ARTZ-REEL7TR-ND	Precision *FastFET*™ Op Amp*	SOT-23-5	8656.20/3,000		
AD8091AR-ND	Voltage-Feedback Amp Single Rail-to-Rail	8-SOIC	2.23	1.78	1.34
AD8091ARTZ-R7CT-ND	Voltage-Feedback Amp Single Rail-to-Rail*	SOT-23-5	1.73	1.38	1.04
AD8091ARTZ-R7TR-ND	Voltage-Feedback Amp Single Rail-to-Rail*	SOT-23-5	2649.60/3,000		
AD8091ARZ-ND	Voltage-Feedback Amp Single Rail-to-Rail*	8-SOIC	2.03	1.62	1.22
AD8092ARZ-ND	Voltage-Feedback Amp Dual Rail-to-Rail*	8-SOIC	2.36	1.89	1.47
AD8099ACPZ-REEL7CT-ND	Voltage-Feedback High Speed Op Amp*	8-LFCSP	4.46	3.57	2.78
AD8099ACPZ-REEL7TR-ND	Voltage-Feedback High Speed Op Amp*	8-LFCSP	3786.75/1,500		
AD8099ARDZ-ND	Voltage-Feedback High Speed Op Amp*	8-SOIC	5.24	4.20	3.27
AD8132AR-ND	Differential Amp 350MHz High Speed	8-SOIC	4.84	3.87	3.01
AD8132ARZ-ND	Differential Amp 350MHz High Speed*	8-SOIC	4.39	3.51	2.73
AD8132ARMZ-ND	Differential Amp 350MHz High Speed*	8-MSOP	4.39	3.51	2.73
AD8137YCPZ-REEL7CT-ND	Differential 12-Bit ADC Driver*	8-LFCSP	2.45	1.97	1.53
AD8137YCPZ-REEL7TR-ND	Differential 12-Bit ADC Driver*	8-LFCSP	2084.63/1,500		
AD8137YRZ-ND	Differential 12-Bit ADC Driver*	8-SOIC	2.88	2.31	1.80
AD8138ARZ-ND	Differential ADC Driver Low Distortion*	8-SOIC	8.50	6.80	5.74
AD8138ARMZ-ND	Differential ADC Driver Low Distortion*	8-MSOP	8.50	6.80	5.74
AD8139ACPZ-REEL7CT-ND	Differential Low Noise Rail-to-Rail ADC Driver*	8-LFCSP	7.18	5.75	4.85
AD8139ACPZ-REEL7TR-ND	Differential Low Noise Rail-to-Rail ADC Driver*	8-LFCSP	6731.25/1,500		
AD8139ARDZ-ND	Differential Low Noise Rail-to-Rail ADC Driver*	8-SOIC	8.44	6.76	5.70
AD8644ARZ-ND	Op Amp 18V Quad 5.5MHz*	14-SOIC	5.22	4.18	3.25
AD8646ARMZ-REELCT-ND	24MHz Rail-to-Rail Dual Amp*	8-MSOP	1.30	1.04	.78
AD8646ARMZ-REELTR-ND	24MHz Rail-to-Rail Dual Amp*	8-MSOP	1998.00/3,000		
AD8646ARZ-ND	24MHz Rail-to-Rail Dual Amp*	8-SOIC	1.58	1.26	.95
AD9631ARZ-ND	Voltage-Feedback Op Amp Wide Bandwidth*	8-SOIC	9.52	7.62	6.43
ADA4850-1YCPZ-R2CT-ND	Op Amp High Speed Rail-to-Rail Out*	8-LFCSP	1.73	1.38	1.04
ADA4850-1YCPZ-R2TR-ND	Op Amp High Speed Rail-to-Rail Out*	8-LFCSP	241.50/250		
ADA4850-2YCPZ-R2CT-ND	Op Amp High Speed Rail-to-Rail Out*	16-LFCSP	2.15	1.72	1.29
ADA4850-2YCPZ-R2TR-ND	Op Amp High Speed Rail-to-Rail Out*	16-LFCSP	301.00/250		
OP42FZ-ND	Op Amp Precision High Speed Fast Set*	8-CDip	7.10	5.68	4.80
OP42GPZ-ND	Op Amp Precision High Speed Fast Set*	8-Dip	4.79	3.84	2.99
OP42GSZ-ND	Op Amp Precision High Speed Fast Set*	8-SOIC	4.79	3.84	2.99
OP162GSZ-ND	Op Amp 15MHz Rail-to-Rail*	8-SOIC	3.53	2.83	2.20
OP249GPZ-ND	Op Amp Dual JFET Precision High Speed*	8-Dip	3.87	3.10	2.41
OP249GS-ND	Op Amp Dual JFET Precision High Speed	8-SOIC	4.05	3.24	2.52
OP249GSZ-ND	Op Amp Dual JFET Precision High Speed*	8-SOIC	3.87	3.10	2.41
OP462GSZ-ND	Op Amp Quad Rail-to-Rail High Speed*	14-SOIC	7.60	6.08	5.13
OP467GPZ-ND	Op Amp Quad Precision High Speed*	14-Dip	11.71	10.55	9.35
OP467GSZ-ND	Op Amp Quad Precision High Speed*	16-SOIC	12.63	11.37	10.09
OP482GPZ-ND	Op Amp Quad JFET High Speed Low Power*	14-Dip	4.64	3.71	2.89
OP482GSZ-ND	Op Amp Quad JFET High Speed Low Power*	14-SOIC	4.16	3.33	2.59

Instrumentation

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD521JDZ-ND	Instrumentation Amp Precision*	14-Dip	32.63	30.45	28.28
AD521KDZ-ND	Instrumentation Amp Precision*	14-Dip	46.44	43.35	40.25
AD524ADZ-ND	Instrumentation Amp Precision*	16-Dip	17.69	16.51	15.33
AD524ARZ-16-ND	Instrumentation Amp Precision*	16-SOIC	13.48	12.14	10.76
AD524BDZ-ND	Instrumentation Amp Precision*	16-Dip	27.77	25.92	24.07
AD524CDZ-ND	Instrumentation Amp Precision*	16-Dip	44.64	41.67	38.69
AD526ADZ-ND	Gain Amp Software Programmable*	16-Dip	15.53	14.49	13.46
AD526BDZ-ND	Gain Amp Software Programmable*	16-Dip	18.71	17.46	16.22
AD526CDZ-ND	Gain Amp Software Programmable*	16-Dip	38.21	35.66	33.12
AD526JN-ND	Gain Amp Software Programmable	16-Dip	10.48	9.44	8.37
AD526JNZ-ND	Gain Amp Software Programmable*	16-Dip	10.01	9.02	8.00
AD594ADZ-ND	Mono Thermocouple Amp*	TO-116	19.62	18.32	17.01
AD594CDZ-ND	Mono Thermocouple Amp*	TO-116	29.96	27.96	25.97
AD595AD-ND	Thermocouple Instrumentation Amp	14-CDip	38.16	28.80	20.16
AD595ADZ-ND	Thermocouple Instrumentation Amp*	14-CDip	20.67	19.30	17.92
AD595CD-ND	Thermocouple Instrumentation Amp	14-CDip	31.32	29.24	27.15
AD595CDZ-ND	Thermocouple Instrumentation Amp*	14-CDip	29.96	27.96	25.97
AD620ANZ-ND	Instrumentation Amp Low Power*	8-Dip	6.62	5.30	4.47
AD620ARZ-ND	Instrumentation Amp Low Power*	8-SOIC	6.62	5.30	4.47
AD620BN-ND	Instrumentation Amp Low Power	8-Dip	10.94	8.76	7.39
AD620BNZ-ND	Instrumentation Amp Low Power*	8-Dip	9.94	7.96	6.71
AD620BRZ-ND	Instrumentation Amp Low Power*	8-SOIC	9.94	7.96	6.71
AD621AN-ND	Instrumentation Amp Low Power Low Drift	8-Dip	8.90	7.12	6.01
AD621ANZ-ND	Instrumentation Amp Low Power Low Drift*	8-Dip	8.52	6.82	5.76
AD621ARZ-ND	Instrumentation Amp Low Power Low Drift*	8-SOIC	8.52	6.82	5.76
AD621BNZ-ND	Instrumentation Amp Low Power Low Drift*	8-Dip	10.65	9.59	8.50
AD621BR-ND	Instrumentation Amp Low Power Low Drift	8-SOIC	11.13	10.02	8.89
AD621BRZ-ND	Instrumentation Amp Low Power Low Drift*	8-SOIC	10.65	9.59	8.50
AD622AN-ND	Instrumentation Amp	8-Dip	5.24	4.20	3.54
AD622ANZ-ND	Instrumentation Amp*	8-Dip	5.65	4.52	3.52
AD622AR-ND	Instrumentation Amp	8-SOIC	5.90	4.72	3.67
AD622ARZ-ND	Instrumentation Amp*	8-SOIC	5.65	4.52	3.52
AD622AR-REEL7CT-ND	Instrumentation Amp	8-SOIC	5.90	4.72	3.67
AD623AN-ND	Instrumentation Amp Rail-to-Rail Out	8-Dip	4.70	3.77	2.93
AD623ANZ-ND	Instrumentation Amp Rail-to-Rail Out*	8-Dip	4.50	3.60	2.80
AD623AR-ND	Instrumentation Amp Rail-to-Rail Out	8-SOIC	4.03	3.23	2.51
AD623ARZ-ND	Instrumentation Amp Rail-to-Rail Out*	8-SOIC	3.85	3.08	2.40
AD623AR-REEL7TR-ND	Instrumentation Amp Rail-to-Rail Out	8-SOIC	2282.25/1,000		
AD623ARMZ-ND	Instrumentation Amp Rail-to-Rail Out*	8-MSOP	3.85	3.08	2.40
AD623BRZ-ND	Instrumentation Amp Rail-to-Rail Out*	8-SOIC	6.20	4.96	4.19
AD624ADZ-ND	Instrumentation Amp Precision Low Noise*	16-Dip	21.26	19.84	18.43
AD624BDZ-ND	Instrumentation Amp Precision Low Noise*	16-Dip	34.82	32.50	30.18
AD624CDZ-ND	Instrumentation Amp Precision Low Noise*	16-Dip	52.16	48.68	45.21
AD625ADZ-ND	Instrumentation Amp Programmable Gain*	16-Dip	18.80	17.55	16.29
AD625JN-ND	Instrumentation Amp Programmable Gain	16-Dip	14.39	12.96	11.50
AD625JNZ-ND	Instrumentation Amp Programmable Gain*	16-Dip	13.76	12.39	10.99
AD625KN-ND	Instrumentation Amp Programmable Gain	16-Dip	18.39	17.17	15.94
AD625KNZ-ND	Instrumentation Amp Programmable Gain*	16-Dip	17.58	16.41	15.24
AD626AN-ND	Differential Amp True Single Supply	8-Dip	7.30	5.84	4.93
AD626ANZ-ND	Differential Amp True Single Supply*	8-Dip	6.98	5.59	4.72
AD626BNZ-ND	Differential Amp True Single Supply*	8-Dip	9.52	7.62	6.43
AD627AN-ND	Instrumentation Amp Rail-to-Rail	8-Dip	6.24	5.00	4.22
AD627ANZ-ND	Instrumentation Amp Rail-to-Rail*	8-Dip	5.96	4.77	4.03
AD627ARZ-ND	Instrumentation Amp Rail-to-Rail*	8-SOIC	5.96	4.77	4.03
AD627ARZ-R7CT-ND	Instrumentation Amp Rail-to-Rail*	8-SOIC	5.96	4.77	4.03
AD627ARZ-R7TR-ND	Instrumentation Amp Rail-to-Rail*	8-SOIC	3725.00/1,000		
AD627BNZ-ND	Instrumentation Amp Rail-to-Rail*	8-Dip	8.34	6.68	5.63
AD627BRZ-ND	Instrumentation Amp Rail-to-Rail*	8-SOIC	8.34	6.68	5.63
AD628-EVAL-ND	Evaluation Board for AD628	—	44.00	—	—
AD628AR-ND	Diff. Amp High-Common Mode Volt. Programmable	8-SOIC	5.00	4.00	3.11
AD628ARZ-ND	Diff. Amp High-Common Mode Volt. Programmable*	8-SOIC	4.77	3.82	2.97
AD628ARMZ-ND	Diff. Amp High-Common Mode Voltage Prog.*	8-MSOP	4.77	3.82	2.97
AD629AN-ND	Differential Amp High-Common Mode Voltage	8-Dip	6.92	5.54	4.68
AD629ANZ-ND	Differential Amp High-Common Mode Voltage*	8-Dip	6.62	5.30	4.47
AD629AR-ND	Differential Amp High-Common Mode Voltage	8-SOIC	6.92	5.54	4.68
AD629ARZ-ND	Differential Amp High-Common Mode Voltage*	8-SOIC	6.62	5.30	4.47
AD629BN-ND	Differential Amp High-Common Mode Voltage	8-Dip	10.70	8.56	7.23
AD629BNZ-ND	Differential Amp High-Common Mode Voltage*	8-Dip	8.53	7.68	6.81
AD629BRZ-ND	Differential Amp High-Common Mode Voltage*	8-SOIC	8.53	7.68	6.81
AD8220ARMZ-ND	JFET Input Instrumentation Amp*	8-MSOP	5.58	4.47	3.77
AD8220-EVALZ-ND	Evaluation Board for AD8220ARMZ*	—	49.95	—	—
AD8220BRMZ-ND	JFET Input Instrumentation Amp*	8-MSOP	8.52	6.82	5.76
AD8222ACPZ-R7CT-ND	Instrumentation Amp Precision, Dual Channel*	16-LFCSP	7.18	5.75	4.85
AD8222ACPZ-R7TR-ND	Instrumentation Amp Precision, Dual Channel*	16-LFCSP	6731.25/1,500		
AD8222BCPZ-R7CT-ND	Instrumentation Amp Precision, Dual Channel*	16-LFCSP	12.58	10.07	8.50
AD8222BCPZ-R7TR-ND	Instrumentation Amp Precision, Dual Channel*	16-LFCSP	11652.23/1,500		
AD8224-EVALZ-ND	Evaluation Board for AD8224*	—	74.94	—	—
AD8224ACPZ-R7CT-ND	Instr. Amp Precision, Dual Ch., JFET Input R-R*	16-LFCSP	8.24	6.60	5.57
AD8224ACPZ-R7TR-ND	Instr. Amp Precision, Dual Ch., JFET Input R-R*	16-LFCSP	7725.00/1,500		
AD8224BCPZ-R7CT-ND	Instrumentation Amp Precision, Dual Ch., JFET Input R-R* ***NEW!***	16-LFCSP	11.15	10.04	8.90
AD8224BCPZ-R7TR-ND	Instrumentation Amp Precision, Dual Ch., JFET Input R-R* ***NEW!***	16-LFCSP	12393.23/1,500		
AD8225AR-ND	Instrument Amp Precision Gain of 5	8-SOIC	8.00	6.40	5.40
AD8225ARZ-ND	Instrument Amp Precision Gain of 5*	8-SOIC	7.66	6.13	5.18
AD8230YRZ-ND	16V, R-R, 0-Drift, Precision Instrumentation Amp*	8-SOIC	6.98	5.59	4.72
AD8231-EVALZ-ND	Evaluation Board for AD8231*	—	74.94	—	—
AD8231ACPZ-R7CT-ND	Zero Drift, Digitally Programmable Instrumentation Amp*	16-LFCSP	3.80	3.05	2.37
AD8231ACPZ-R7TR-ND	Zero Drift, Digitally Programmable Instrumentation Amp*	16-LFCSP	3232.13/1,500		
AD8250-EVALZ-ND	Evaluation Board for AD8250*	—	112.44	—	—
AD8250ARMZ-ND	Instrumentation Amp, 10MHz, *i*CMOS® Programmable Gain*	10-MSOP	9.81	8.84	7.84
AD8250ARMZ-R7CT-ND	Instrumentation Amp, 10MHz, *i*CMOS® Programmable Gain*	10-MSOP	9.81	8.84	7.84

***** ***RoHS Compliant***

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8250ARMZ-R7TR-ND	Instrumentation Amp, 10MHz, iCMOS® Programmable Gain*	10-MSOP	7274.15/1,000		
AD8251ARMZ-R7CT-ND	Instrumentation Amp, 10MHz, iCMOS® Programmable Gain*	10-MSOP	9.81	8.84	7.84
AD8251ARMZ-R7TR-ND	Instrumentation Amp, 10MHz, iCMOS® Programmable Gain*	10-MSOP	7274.15/1,000		
AD8273ARZ-R7CT-ND	Dual Channel, Audio Difference Amplifier* ***NEW!***	14-SOIC	4.46	3.57	2.78
AD8273ARZ-R7TR-ND	Dual Channel, Audio Difference Amplifier* ***NEW!***	14-SOIC	2524.50/1,000		
AD8553ARMZ-REELCT-ND	1.8V-5V Auto Zero, In Amp*	10-MSOP	2.93	2.34	1.82
AD8553ARMZ-REELTR-ND	1.8V-5V Auto Zero, In Amp*	10-MSOP	4914.00/3,000		
AD8555ACPZ-REEL7CT-ND	0-Drift, Digitally Programmable Sensor Signal Amp*	16-LFCSP	6.38	5.11	4.31
AD8555ACPZ-REEL7TR-ND	0-Drift, Digitally Programmable Sensor Signal Amp*	16-LFCSP	5981.25/1,500		
AD8555ARZ-ND	0-Drift, Digitally Programmable Sensor Signal Amp*	8-SOIC	7.70	6.16	5.20
AD8556ACPZ-REEL7CT-ND	Digitally Programmable Sensor Signal Amp with EMI Filter*	16-LFCSP	5.78	4.63	3.91
AD8556ACPZ-REEL7TR-ND	Digitally Programmable Sensor Signal Amp with EMI Filter*	16-LFCSP	5418.75/1,500		
AD8556ARZ-ND	Digitally Programmable Sensor Signal Amp with EMI Filter*	8-SOIC	7.48	5.99	5.05
AD8557ACPZ-REEL7CT-ND	Digitally Programmable Sensor Signal Amp*	16-LFCSP	4.95	3.96	3.08
AD8557ACPZ-REEL7TR-ND	Digitally Programmable Sensor Signal Amp*	16-LFCSP	4207.50/1,500		
AD8557ARZ-ND	Digitally Programmable Sensor Signal Amp*	8-SOIC	5.26	4.21	3.56
AD22050NZ-ND	Single Supply Sensor Interface Amp*	8-Dip	9.00	7.20	6.08
AD22050RZ-ND	Single Supply Sensor Interface Amp*	8-SOIC	10.62	8.50	7.17
AD22057RZ-ND	Single Supply Sensor Interface Amp*	8-SOIC	9.28	8.36	7.41
AMP01GS-ND	Amp Instrument Precision Low Noise	20-SOIC	16.78	15.11	13.40
AMP02EPZ-ND	Amp Instrument Precision*	8-Dip	15.79	14.22	12.61
AMP02FPZ-ND	Amp Instrument Precision*	8-Dip	9.46	8.52	7.56
AMP02FSZ-ND	Amp Instrument Precision*	16-SOIC	9.46	8.52	7.56
AMP04EPZ-ND	Amp Instrument Precision Single*	8-Dip	12.06	10.86	9.63
AMP04ESZ-ND	Amp Instrument Precision Single*	8-SOIC	12.06	10.86	9.63
AMP04FPZ-ND	Amp Instrument Precision Single*	8-Dip	10.32	8.26	6.97
AMP04FSZ-ND	Amp Instrument Precision Single*	8-SOIC	10.32	8.26	6.97

Isolation

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD202JN-ND	Isolated Amp 2-Port 2kHz	38-Dip	45.42	42.40	39.37
AD202JY-ND	Isolated Amp 2-Port 2kHz	38-Sip	45.42	42.40	39.37
AD202KN-ND	Isolated Amp 2-Port 2kHz	38-Dip	51.92	48.46	45.00
AD202KY-ND	Isolated Amp 2-Port 2kHz	38-Sip	51.92	48.46	45.00
AD210AN-ND	Isolated Amp 3-Port 20kHz	12-Dip	79.49	74.19	68.89
AD210BN-ND	Isolated Amp 3-Port 20kHz	12-Dip	95.72	89.34	82.96
AD210JN-ND	Isolated Amp 3-Port 20kHz	12-Dip	71.39	66.63	61.87
AD215BY-ND	Isolated Amp 120kHz	12-Sip	81.12	75.72	70.31

Line Driver

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD815ARBZ-24-ND	High Out Current Diff. Driver*	24-SOIC	10.73	9.66	8.57
AD8016ARBZ-ND	Amp xDSL Line Driver*	24-SOIC	9.14	7.32	6.17
AD8016ARE-ND	Amp xDSL Line Driver	28-TSSOP	9.56	7.65	6.46
AD8016AREZ-ND	Amp xDSL Line Driver*	28-TSSOP	9.14	7.32	6.17
AD8018ARZ-ND	xDSL Line Driver Rail-to-Rail*	8-SOIC	6.50	5.20	4.39
AD8019ARZ-ND	xDSL Line Driver*	8-SOIC	6.50	5.20	4.39
AD8392AACPZ-R7CT-ND	Amp 2-Channel ADSL/ADSL2+ Line Driver*	32-LFCSP	5.58	4.47	3.77
AD8392AACPZ-R7TR-ND	Amp 2-Channel ADSL/ADSL2+ Line Driver*	32-LFCSP	5232.00/1,500		
AD8392AAREZ-ND	Amp 2-Channel ADSL/ADSL2+ Line Driver*	28-TSSOP	6.88	5.51	4.65

Log

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADL5306ACP-R2CT-ND	Logarithmic Converter 60dB	16-LFCSP	8.60	7.74	6.87
ADL5306ACP-R2TR-ND	Logarithmic Converter 60dB	16-LFCSP	1665.00/250		
ADL5306ACPZ-R2CT-ND	Logarithmic Converter 60dB*	16-LFCSP	8.88	7.11	6.00
ADL5306ACPZ-R2TR-ND	Logarithmic Converter 60dB*	16-LFCSP	1665.00/250		
ADL5306ACPZ-REEL7CT-ND	Logarithmic Converter 60dB*	16-LFCSP	9.38	7.51	6.34
ADL5306ACPZ-REEL7TR-ND	Logarithmic Converter 60dB*	16-LFCSP	8793.75/1,500		
ADL5310ACP-R2CT-ND	Dual Logarithmic Converter 120dB	24-LFCSP	18.69	17.45	16.20
ADL5310ACP-R2TR-ND	Dual Logarithmic Converter 120dB	24-LFCSP	4020.00/250		
ADL5310ACPZ-REEL7CT-ND	Dual Logarithmic Converter 120dB*	24-LFCSP	18.88	17.00	15.07
ADL5310ACPZ-REEL7TR-ND	Dual Logarithmic Converter 120dB*	24-LFCSP	20988.83/1,500		
ADL5315-EVAL-ND	Evaluation Board for ADL5315	—	148.50	—	—
ADL5315ACPZ-R7CT-ND	Precision Wide Range High Side Current Mirror*	8-LFCSP	4.34	3.48	2.71
ADL5315ACPZ-R7TR-ND	Precision Wide Range High SideCurrent Mirror*	8-LFCSP	7295.40/3,000		
ADL5317-EVAL-ND	Evaluation Board for ADL5317	—	148.50	—	—
ADL5317ACPZ-REEL7CT-ND	Avalanche Photodiode Bias Controller/ Wide Range Current Monitor*	16-LFCSP	8.76	7.01	5.92
ADL5317ACPZ-REEL7TR-ND	Avalanche Photodiode Bias Controller/ Wide Range Current Monitor*	16-LFCSP	8212.50/1,500		

Low Noise

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD795JR-ND	Precision Op Amp FET Low Power Low Noise	8-SOIC	6.54	5.24	4.42
AD795JRZ-ND	Precision Op Amp FET Low Power Low Noise*	8-SOIC	6.24	5.00	4.22
AD797AN-ND	Op Amp Low Distortion Low Noise	8-Dip	8.56	6.85	5.78
AD797ANZ-ND	Op Amp Low Distortion Low Noise*	8-Dip	8.16	6.53	5.51
AD797ARZ-ND	Op Amp Low Distortion Low Noise*	8-SOIC	8.16	6.53	5.51
AD797BRZ-ND	Op Amp Low Distortion Low Noise*	8-SOIC	9.23	8.31	7.37
AD8350AR15-EVAL-ND	Evaluation Board for AD8350	—	111.38	—	—
AD8350AR20-EVAL-ND	Evaluation Board for AD8350	—	111.38	—	—
AD8350ARMZ20-ND	Differential Amp Low Distortion*	8-MSOP	6.40	5.12	4.32
AD8350ARZ20-REEL7CT-ND	Differential Amp Low Distortion*	8-SOIC	6.40	5.12	4.32
AD8350ARZ20-REEL7TR-ND	Differential Amp Low Distortion*	8-SOIC	4000.00/1,000		
AD8510ARZ-ND	Precision Op Amp JFET Single Low Noise*	8-SOIC	2.59	2.07	1.61
AD8510ARMZ-R2CT-ND	Precision Op Amp JFET Single Low Noise*	8-MSOP	3.13	2.51	1.95
AD8510ARMZ-R2TR-ND	Precision Op Amp JFET Single Low Noise*	8-MSOP	462.18/250		
AD8510BR-ND	Precision Op Amp JFET Single Low Noise	8-SOIC	6.03	4.83	3.76
AD8510BRZ-ND	Precision Op Amp JFET Single Low Noise*	8-SOIC	5.49	4.40	3.42
AD8512AR-ND	Precision Op Amp JFET Dual Low Noise	8-SOIC	4.30	3.44	2.68
AD8512ARZ-ND	Precision Op Amp JFET Dual Low Noise*	8-SOIC	3.89	3.12	2.43
AD8512ARMZ-REELCT-ND	Precision Op Amp JFET Dual Low Noise*	8-MSOP	3.31	2.65	2.06
AD8512ARMZ-REELTR-ND	Precision Op Amp JFET Dual Low Noise*	8-MSOP	5556.60/3,000		
AD8512BR-ND	Precision Op Amp JFET Dual Low Noise	8-SOIC	10.98	8.79	7.42
AD8512BRZ-ND	Precision Op Amp JFET Dual Low Noise*	8-SOIC	9.98	7.99	6.74
AD8599ARZ-ND	Op Amp Dual Ultralow Distortion, Ultralow Noise*	8-SOIC	7.80	6.24	5.27
AD8610AR-ND	Op Amp Precision JFET Low Noise	8-SOIC	9.20	7.36	6.21
AD8610BR-ND	Op Amp Precision JFET Low Noise	8-SOIC	18.12	16.92	15.71
AD8619ARZ-ND	Op Amp Low Noise CMOS Rail-to-Rail In/Out*	14-SOIC	3.02	2.42	1.88
AD8651ARZ-ND	Op Amp 50MHz Low Distortion Low Noise*	8-SOIC	3.11	2.49	1.94
AD8651ARM-R2CT-ND	Op Amp 50MHz Low Distortion Low Noise	8-MSOP	4.32	3.46	2.69
AD8651ARMZ-R2CT-ND	Op Amp 50MHz Low Distortion Low Noise*	8-MSOP	3.65	2.92	2.27
AD8651ARMZ-R2TR-ND	Op Amp 50MHz Low Distortion Low Noise*	8-MSOP	538.65/250		
AD8655ARMZ-REELCT-ND	Op Amp Precision Low Noise*	8-MSOP	1.75	1.40	1.05
AD8655ARMZ-REELTR-ND	Op Amp Precision Low Noise*	8-MSOP	2688.00/3,000		
AD8655ARZ-ND	Op Amp Precision Low Noise*	8-SOIC	2.20	1.76	1.32
AD8656ARMZ-REELCT-ND	Op Amp Precision Dual Low Noise*	8-MSOP	2.48	1.98	1.54
AD8656ARMZ-REELTR-ND	Op Amp Precision Dual Low Noise*	8-MSOP	4158.00/3,000		
AD8656ARZ-ND	Op Amp Precision Dual Low Noise*	8-SOIC	3.11	2.49	1.94
AD8671AR-ND	Op Amp Precision Single Low Noise	8-SOIC	3.06	2.45	1.91
AD8671ARZ-ND	Op Amp Precision Single Low Noise*	8-SOIC	2.79	2.24	1.74
AD8671ARMZ-R2CT-ND	Op Amp Precision Single Low Noise*	8-MSOP	3.35	2.69	2.09
AD8671ARMZ-R2TR-ND	Op Amp Precision Single Low Noise*	8-MSOP	495.43/250		
AD8672ARZ-ND	Op Amp Precision Dual Low Noise*	8-SOIC	4.55	3.64	2.83
AD8672ARMZ-R2CT-ND	Op Amp Precision Dual Low Noise*	8-MSOP	5.45	4.36	3.39
AD8672ARMZ-R2TR-ND	Op Amp Precision Dual Low Noise*	8-MSOP	804.65/250		
AD8674ARZ-ND	Op Amp Precision Quad Low Noise*	14-SOIC	7.60	6.08	5.13
AD8674ARUZ-ND	Op Amp Precision Quad Low Noise*	14-TSSOP	7.60	6.08	5.13
AD8692ARMZ-R2CT-ND	Op Amp Low Noise, CMOS Rail-to-Rail Out*	8-MSOP	2.30	1.84	1.43
AD8692ARMZ-R2TR-ND	Op Amp Low Noise, CMOS Rail-to-Rail Out*	8-MSOP	339.15/250		
AD8692ARZ-ND	Op Amp Low Noise, CMOS Rail-to-Rail Out*	8-SOIC	2.13	1.70	1.28
AD8694ARUZ-ND	Op Amp Low Noise, CMOS Rail-to-Rail Out*	14-TSSOP	2.70	2.16	1.68
OP27AZ-ND	Op Amp Precision Low Noise	8-CDip	33.20	30.99	28.77
OP27EPZ-ND	Op Amp Precision Low Noise*	8-Dip	5.83	4.67	3.63
OP27EZ-ND	Op Amp Precision Low Noise	8-CDip	15.78	14.21	12.60
OP27GPZ-ND	Op Amp Precision Low Noise*	8-Dip	2.72	2.18	1.70
OP27GS-ND	Op Amp Precision Low Noise	8-SOIC	2.72	2.18	1.70
OP27GSZ-ND	Op Amp Precision Low Noise*	8-SOIC	2.72	2.18	1.70
OP113ESZ-ND	Op Amp Single Supply Low Noise*	8-SOIC	6.46	5.17	4.37
OP113FSZ-ND	Op Amp Single Supply Low Noise*	8-SOIC	3.76	3.01	2.34
OP213ESZ-ND	Op Amp Dual Single Supply Low Noise*	8-SOIC	10.23	9.21	8.17
OP213FPZ-ND	Op Amp Dual Single Supply Low Noise*	8-Dip	4.46	3.57	2.78
OP213FSZ-ND	Op Amp Dual Single Supply Low Noise*	8-SOIC	4.46	3.57	2.78
OP270EZ-ND	Op Amp Dual Precision Low Noise	8-CDip	12.30	11.07	9.82
OP270FZ-ND	Op Amp Dual Precision Low Noise	8-CDip	9.21	8.30	7.36
OP270GPZ-ND	Op Amp Dual Precision Low Noise*	8-Dip	5.63	4.50	3.50
OP270GSZ-ND	Op Amp Dual Precision Low Noise*	16-SOIC	5.94	4.76	3.70
OP413ESZ-ND	Op Amp Quad Low Drift*	16-SOIC	14.74	13.28	11.78
OP413FSZ-ND	Op Amp Quad Low Drift*	16-SOIC	8.54	6.84	5.77
OP470EY-ND	Op Amp Quad Very Low Noise	14-Dip	17.94	16.16	14.33
OP470GPZ-ND	Op Amp Quad Very Low Noise*	14-Dip	7.88	6.31	5.32
OP470GSZ-ND	Op Amp Quad Very Low Noise*	16-SOIC	8.36	6.69	5.65
OP471GPZ-ND	Op Amp Quad High Speed Low Noise*	14-Dip	5.99	5.59	5.19
OP471GSZ-ND	Op Amp Quad High Speed Low Noise*	16-SOIC	8.92	7.14	6.03
OP490GSZ-REELCT-ND	Op Amp Quad Micropower*	16-SOIC	8.32	6.66	5.62
OP490GSZ-REELTR-ND	Op Amp Quad Micropower*	16-SOIC	4925.00/1,000		
OP495GPZ-ND	Op Amp Quad Rail-to-Rail*	14-Dip	8.54	6.84	5.77
OP2177ARZ-ND	Op Amp Dual Precision Low Noise*	8-SOIC	3.78	3.03	2.36
OP2177AR-REEL7TR-ND	Op Amp Dual Precision Low Noise	8-SOIC	2358.75/1,000		
OP2177ARZ-REEL7CT-ND	Op Amp Dual Precision Low Noise*	8-SOIC	3.78	3.03	2.36
OP2177ARZ-REEL7TR-ND	Op Amp Dual Precision Low Noise*	8-SOIC	2142.00/1,000		
OP2177ARMZ-REELCT-ND	Op Amp Dual Precision Low Noise*	8-MSOP	3.40	2.72	2.12
OP2177ARMZ-REELTR-ND	Op Amp Dual Precision Low Noise*	8-MSOP	5707.80/3,000		

Low Power

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADA4860-1YRJZ-RL7CT-ND	High Speed, Low Cost, Op Amp*	SOT-23-6	1.38	1.10	.83
ADA4860-1YRJZ-RL7TR-ND	High Speed, Low Cost, Op Amp*	SOT-23-6	2112.00/3,000		
AD818ANZ-ND	Video Op Amp 130MHz Low Power*	8-Dip	4.41	3.53	2.75
AD818ARZ-ND	Video Op Amp 130MHz Low Power*	8-SOIC	4.41	3.53	2.75
AD820ANZ-ND	Op Amp FET-In Rail-to-Rail Low Power*	8-Dip	3.96	3.17	2.47
AD820ARZ-ND	Op Amp FET-In Rail-to-Rail Low Power*	8-SOIC	3.87	3.10	2.41
AD820ARZ-REEL7CT-ND	Op Amp FET-In Rail-to-Rail Low Power*	8-SOIC	3.53	2.83	2.20
AD820ARZ-REEL7TR-ND	Op Amp FET-In Rail-to-Rail Low Power*	8-SOIC	1677.00/750		
AD820BRZ-ND	Op Amp FET-In Rail-to-Rail Low Power*	8-SOIC	5.65	4.52	3.52
AD824ARZ-14-ND	Op Amp FET Rail-to-Rail Low Power*	14-SOIC	8.58	6.87	5.80
AD8002ARM-ND	Op Amp Current-Feedback Dual	8-MSOP	7.34	5.87	4.57
AD8005ART-REEL7CT-ND	Op Amp Current-Feedback Low Power	SOT-23-5	2.84	2.27	1.77
AD8005ARTZ-REEL7CT-ND	Op Amp Current-Feedback Low Power*	SOT-23-5	2.84	2.27	1.77
AD8005ARTZ-REEL7TR-ND	Op Amp Current-Feedback Low Power*	SOT-23-5	5253.00/3,000		
AD8005ARZ-ND	Op Amp Current-Feedback Low Power*	8-SOIC	3.47	2.78	2.16
AD8538ARZ-ND	Op Amp Precision Auto-Zero Low Power*	8-SOIC	2.36	1.89	1.47
AD8538AUJZ-REEL7CT-ND	Op Amp Precision Auto-Zero Low Power*	8-SOIC	2.23	1.78	1.34
AD8538AUJZ-REEL7TR-ND	Op Amp Precision Auto-Zero Low Power*	8-SOIC	3417.60/3,000		
AD8539ARMZ-REELCT-ND	Op Amp Precision Auto-Zero Low Power*	8-MSOP	2.90	2.33	1.81
AD8539ARMZ-REELTR-ND	Op Amp Precision Auto-Zero Low Power*	8-MSOP	4876.20/3,000		
AD8539ARZ-ND	Op Amp Precision Auto-Zero Low Power*	8-SOIC	3.44	2.76	2.15
AD8625ARU-ND	Op Amp Quad JFET Rail-to-Rail	14-TSSOP	8.84	7.08	5.97
AD8625ARUZ-ND	Op Amp Quad JFET Rail-to-Rail*	14-TSSOP	9.84	7.88	6.65
AD8625ARZ-ND	Op Amp Quad JFET Rail-to-Rail*	14-SOIC	9.84	7.88	6.65
AD8626ARMZ-R2CT-ND	Op Amp Precision JFET Low Power*	8-MSOP	7.08	5.67	4.78
AD8626ARMZ-R2TR-ND	Op Amp Precision JFET Low Power*	8-MSOP	1150.50/250		
AD8626ARZ-ND	Op Amp Precision JFET Low Power*	8-SOIC	5.90	4.72	3.99
AD8627AKSZ-REEL7CT-ND	Op Amp Precision JFET Low Power*	SC70-5	3.56	2.85	2.22
AD8627AKSZ-REEL7TR-ND	Op Amp Precision JFET Low Power*	SC70-5	5972.40/3,000		
AD8627AR-ND	Op Amp Precision JFET Low Power	8-SOIC	3.92	3.14	2.44
AD8627ARZ-ND	Op Amp Precision JFET Low Power*	8-SOIC	4.34	3.48	2.71
OP90GPZ-ND	Op Amp Precision Low Voltage Micropower*	8-Dip	4.03	3.23	2.51
OP90GSZ-ND	Op Amp Precision Low Voltage Micropower*	8-SOIC	4.03	3.23	2.51
OP90GSZ-REEL7CT-ND	Op Amp Precision Low Voltage Micropower*	8-SOIC	3.67	2.94	2.29
OP90GSZ-REEL7TR-ND	Op Amp Precision Low Voltage Micropower*	8-SOIC	2282.00/1,000		
OP97EPZ-ND	Op Amp Low Power OP07*	8-Dip	6.68	5.35	4.51
OP97FPZ-ND	Op Amp Low Power OP07*	8-Dip	2.50	2.00	1.56
OP97FSZ-ND	Op Amp Low Power OP07*	8-SOIC	2.50	2.00	1.56
OP97FSZ-REEL7CT-ND	Op Amp Low Power OP07*	8-SOIC	2.53	2.02	1.52
OP97FSZ-REEL7TR-ND	Op Amp Low Power OP07*	8-SOIC	1415.00/1,000		
OP193FSZ-ND	Op Amp Micropower Rail-to-Rail*	8-SOIC	3.29	2.63	2.05
OP221GSZ-ND	Op Amp Dual Single Supply Low Power*	8-SOIC	4.52	3.62	2.82
OP490GPZ-ND	Op Amp Quad Low Voltage Low Power*	14-Dip	7.88	6.31	5.32
OP490GSZ-ND	Op Amp Quad Low Voltage Low Power*	16-SOIC	7.88	6.31	5.32
OP496GSZ-ND	Op Amp Quad Rail-to-Rail Low Power*	14-SOIC	5.65	4.52	3.52

** RoHS Compliant*

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OP497FPZ-ND	Op Amp Quad Precision Voltage Low Power*	14-Dip	9.20	8.28	7.35
OP497FSZ-ND	Op Amp Quad Precision Voltage Low Power*	16-SOIC	10.96	8.77	7.40
OP497GPZ-ND	Op Amp Quad Precision Voltage Low Power*	14-Dip	7.56	6.05	5.11
OP497GS-ND	Op Amp Quad Precision Voltage Low Power	16-SOIC	7.56	6.05	5.11
OP497GSZ-ND	Op Amp Quad Precision Voltage Low Power*	16-SOIC	7.22	5.78	4.88

Precision

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD548JR-ND	Precision BiFET Op Amp Low Power	8-SOIC	2.70	2.16	1.68
AD548JRZ-ND	Precision BiFET Op Amp Low Power*	8-SOIC	2.59	2.07	1.61
AD548KNZ-ND	Precision BiFET Op Amp Low Power*	8-Dip	5.68	4.55	3.84
AD549JHZ-ND	Ultralow Input-Bias Current Op Amp*	TO-99	17.45	16.29	15.12
AD549KHZ-ND	Ultralow Input-Bias Current Op Amp*	TO-99	24.36	22.74	21.12
AD549LHZ-ND	Ultralow Input-Bias Current Op Amp*	TO-99	30.09	28.09	26.08
AD585JPZ-ND	Precision Sample/Hold Amp*	20-PLCC	22.71	21.20	19.69
AD648JN-ND	Op Amp Dual Precision Low Power BiFET	8-Dip	4.05	3.24	2.52
AD648JNZ-ND	Op Amp Dual Precision Low Power BiFET*	8-Dip	3.87	3.10	2.41
AD648JR-ND	Op Amp Dual Precision Low Power BiFET	8-SOIC	4.05	3.24	2.52
AD648JRZ-ND	Op Amp Dual Precision Low Power BiFET*	8-SOIC	3.87	3.10	2.41
AD648KNZ-ND	Op Amp Dual Precision Low Power BiFET*	8-Dip	8.74	7.00	5.90
AD704ARZ-16-ND	Bipolar Op Amp Quad*	16-SOIC	9.00	7.20	6.08
AD704JN-ND	Bipolar Op Amp Quad	14-Dip	8.80	7.04	5.94
AD704JNZ-ND	Bipolar Op Amp Quad*	14-Dip	8.38	6.71	5.66
AD704JRZ-16-ND	Bipolar Op Amp Quad*	16-SOIC	8.38	6.71	5.66
AD706ARZ-ND	Bipolar Op Amp Dual*	8-SOIC	5.22	4.18	3.25
AD706JNZ-ND	Bipolar Op Amp Dual*	8-Dip	4.34	3.48	2.93
AD706JR-ND	Bipolar Op Amp Dual	8-SOIC	4.84	3.87	3.01
AD706JRZ-ND	Bipolar Op Amp Dual*	8-SOIC	4.61	3.69	2.87
AD711AQ-ND	Precision Op Amp BiFET High Speed	8-CDip	6.01	4.81	3.74
AD711JNZ-ND	Precision Op Amp BiFET High Speed*	8-Dip	2.59	2.07	1.61
AD711JRZ-ND	Precision Op Amp BiFET High Speed*	8-SOIC	2.57	2.06	1.60
AD711KN-ND	Precision Op Amp BiFET High Speed	8-Dip	4.91	3.93	3.06
AD711KNZ-ND	Precision Op Amp BiFET High Speed*	8-Dip	4.68	3.75	2.92
AD711KR-ND	Precision Op Amp BiFET High Speed	8-SOIC	4.70	3.77	2.93
AD711KRZ-ND	Precision Op Amp BiFET High Speed*	8-SOIC	4.48	3.59	2.79
AD745KR-16-ND	Op Amp Low Noise BiFET	16-SOIC	11.26	10.14	9.00
AD745KRZ-16-ND	Op Amp Low Noise BiFET*	16-SOIC	10.26	9.24	8.20
AD783JRZ-ND	Amp Mono Sample and Hold*	8-SOIC	19.31	18.02	16.74
AD822ANZ-ND	Dual Precision, Low Power FET Input Op Amp*	8-Dip	5.96	4.77	3.71
AD822ARMZ-REELCT-ND	Dual Precision, Low Power FET Input Op Amp*	8-MSOP	5.29	4.23	3.29
AD822ARMZ-REELTR-ND	Dual Precision, Low Power FET Input Op Amp*	8-MSOP	8883.00/3,000		
AD822ARZ-ND	Dual Precision, Low Power FET Input Op Amp*	8-SOIC	5.87	4.70	3.66
AD822ARZ-REEL7TR-ND	Dual Precision, Low Power FET Input Op Amp*	8-SOIC	2544.75/750		
AD822BRZ-ND	Dual Precision, Low Power FET Input Op Amp*	8-SOIC	7.76	6.21	5.24
AD823AN-ND	Dual Precision, 16MHz JFET Input Op Amp	8-Dip	5.76	4.61	3.89
AD823ANZ-ND	Dual Precision, 16MHz JFET Input Op Amp*	8-Dip	5.50	4.40	3.72
AD823ARZ-ND	Dual Precision, 16MHz JFET Input Op Amp*	8-SOIC	5.50	4.40	3.72
AD823AR-REEL7TR-ND	Dual Precision, 16MHz JFET Input Op Amp	8-SOIC	2743.50/750		
AD8221ARZ-ND	Precision Instrumentation Amp*	8-SOIC	5.48	4.39	3.70
AD8221ARM-ND	Precision Instrumentation Amp	8-MSOP	5.18	4.15	3.50
AD8221ARMZ-ND	Precision Instrumentation Amp*	8-MSOP	5.29	4.23	3.29
AD8221BR-ND	Precision Instrumentation Amp	8-SOIC	9.58	7.67	6.47
AD8221-EVAL-ND	Evaluation Board for AD8221	—	53.00	—	—
AD8270ACPZ-WP-ND	Dual Precision Difference Amp* ***NEW!***	16-LFCSP	5.06	4.05	3.15
AD8500AKSZ-REEL7CT-ND	Micropower Precision CMOS Op Amp*	SC70-5	1.75	1.40	1.05
AD8500AKSZ-REEL7TR-ND	Micropower Precision CMOS Op Amp*	SC70-5	2688.00/3,000		
AD8502ARJZ-REEL7CT-ND	1µA Micropower CMOS Op Amp*	SOT-23-8	1.73	1.38	1.04
AD8502ARJZ-REEL7TR-ND	1µA Micropower CMOS Op Amp*	SOT-23-8	2649.60/3,000		
AD8504ARUZ-ND	1µA Micropower CMOS Op Amp*	14-TSSOP	3.11	2.49	1.94
AD8513AR-ND	Wide-Bandwidth Quad JFET Op Amp	14-SOIC	8.58	6.87	5.80
AD8513ARZ-ND	Wide-Bandwidth Quad JFET Op Amp*	14-SOIC	7.80	6.24	5.27
AD8513ARU-ND	Wide-Bandwidth Quad JFET Op Amp	14-TSSOP	8.18	6.55	5.53
AD8513ARUZ-ND	Wide-Bandwidth Quad JFET Op Amp*	14-TSSOP	7.80	6.24	5.27
AD8601ARTZREEL7CT-ND	Precision CMOS Single R-R In/Out Wideband Op Amp*	SOT-23-5	1.33	1.06	.80
AD8601ARTZREEL7TR-ND	Precision CMOS Single R-R In/Out Wideband Op Amp*	SOT-23-5	2034.00/3,000		
AD8610ARZ-ND	Precision JFET Input Op Amp*	8-SOIC	8.80	7.04	5.94
AD8610BRZ-ND	Precision JFET Input Op Amp*	8-SOIC	17.33	16.17	15.02
AD8615AUJZ-REEL7CT-ND	Precision 20MHz CMOS R-R In/Out Op Amp*	TSOT-23-5	1.88	1.50	1.13
AD8615AUJZ-REEL7TR-ND	Precision 20MHz CMOS R-R In/Out Op Amp*	TSOT-23-5	2880.00/3,000		
AD8616AR-ND	20MHz, Rail-to-Rail Op Amp Dual	8-SOIC	3.62	2.90	2.26
AD8616ARZ-ND	20MHz, Rail-to-Rail Op Amp Dual*	8-SOIC	3.47	2.78	2.16
AD8616ARMZ-R2CT-ND	20MHz, Rail-to-Rail Op Amp Dual*	8-MSOP	4.16	3.33	2.59
AD8616ARMZ-R2TR-ND	20MHz, Rail-to-Rail Op Amp Dual*	8-MSOP	615.13/250		
AD8618ARUZ-ND	Precision 20MHz CMOS Rail-to-Rail In/Out Op Amp* ***NEW!***	14-TSSOP	5.50	4.40	3.72
AD8618ARZ-ND	Precision 20MHz CMOS R-R In/Out Op Amp*	14-SOIC	5.50	4.40	3.72
AD8619ARUZ-ND	Op Amp Low Noise CMOS R-R In/Out* ***NEW!***	14-TSSOP	3.02	2.42	1.88
AD8620AR-ND	Op Amp Precision JFET Low Noise	8-SOIC	15.33	13.80	12.24
AD8620ARZ-ND	Op Amp Precision JFET*	8-SOIC	14.66	13.20	11.71
AD8620BR-ND	Op Amp Precision JFET Low Noise	8-SOIC	30.71	28.66	26.62
AD8620BRZ-ND	Op Amp Precision JFET Low Noise*	8-SOIC	29.37	27.42	25.46
AD8628ARTZ-REEL7CT-ND	Op Amp Rail-to-Rail O-Drift, In/Out*	SOT-23-5	2.38	1.90	1.43
AD8628ARTZ-REEL7TR-ND	Op Amp Rail-to-Rail O-Drift, In/Out*	SOT-23-5	3648.00/3,000		
AD8628ARZ-ND	Op Amp Rail-to-Rail 0-Drift, In/Out*	8-SOIC	2.48	1.98	1.54
AD8628AUJZ-REEL7CT-ND	Op Amp Rail-to-Rail 0-Drift, In/Out*	TSOT-23-5	2.38	1.90	1.43
AD8628AUJZ-REEL7TR-ND	Op Amp Rail-to-Rail 0-Drift, In/Out*	TSOT-23-5	3648.00/3,000		
AD8641AKSZ-REEL7CT-ND	Precision JFET Amp, Rail-to-Rail Out* ***NEW!***	SC70-5	2.81	2.25	1.75
AD8641AKSZ-REEL7TR-ND	Precision JFET Amp, Rail-to-Rail Out* ***NEW!***	SC70-5	5481.00/3,000		
AD8641ARZ-ND	Precision JFET Amp, Rail-to-Rail Out*	8-SOIC	4.07	3.26	2.54
AD8698ARZ-ND	Op Amp Precision Dual Rail-to-Rail Out*	8-SOIC	5.30	4.24	3.58
ADA4000-1ARZ-ND	Op Amp Precision JFET*	8-SOIC	2.13	1.70	1.28
ADA4000-1AUJZ-R7CT-ND	Op Amp Precision JFET*	SOT-36-5	1.80	1.44	1.08
ADA4000-1AUJZ-R7TR-ND	Op Amp Precision JFET*	SOT-36-5	2764.80/3,000		
ADA4000-2ARZ-ND	Op Amp Precision JFET*	8-SOIC	3.44	2.76	2.15
ADA4000-2ARMZ-RLCT-ND	Op Amp Precision JFET*	8-MSOP	2.90	2.33	1.81
ADA4000-2ARMZ-RLTR-ND	Op Amp Precision JFET*	8-MSOP	4876.20/3,000		
ADA4000-4ARUZ-ND	Op Amp Precision JFET*	14-TSSOP	5.20	4.16	3.51
ADA4000-4ARZ-ND	Op Amp Precision JFET*	14-SOIC	5.20	4.16	3.51
ADA4004-4ACPZ-R7CT-ND	Op Amp 36V Precision Quad*	16-LFCSP	6.12	4.90	4.14
ADA4004-4ACPZ-R7TR-ND	Amp 36V Precision Quad*	16-LFCSP	5737.50/1,500		
ADA4004-4ARZ-ND	Amp 36V Precision Quad*	14-SOIC	7.46	5.97	5.04

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AMP03BJZ-ND	Amp Differential Precision Unity Gain*	TO-99-8	15.53	13.98	12.40
AMP03FJZ-ND	Amp Differential Precision Unity Gain*	TO-99-8	9.90	7.92	6.69
AMP03GPZ-ND	Amp Differential Precision Unity Gain*	8-Dip	5.72	4.58	3.87
AMP03GSZ-ND	Amp Differential Precision Unity Gain*	8-SOIC	5.72	4.58	3.87
OP07CPZ-ND	Op Amp Ultra Low Offset*	8-Dip	1.62	1.35	1.08
OP07CSZ-ND	Op Amp Ultra Low Offset*	8-SOIC	1.62	1.35	1.08
OP07DNZ-ND	Op Amp Ultra Low Offset*	8-Dip	1.23	1.03	.82
OP07DRZ-ND	Op Amp Ultra Low Offset*	8-SOIC	1.23	1.03	.82
OP07EPZ-ND	Op Amp Ultra Low Offset*	8-Dip	3.35	2.69	2.09
OP27GS-REEL7TR-ND	Op Amp Precision Low Noise	8-SOIC	1543.00/1,000		
OP27GZ-ND	Op Amp Precision Low Noise*	8-Dip	10.28	8.23	6.94
OP37EPZ-ND	Op Amp Precision Low Noise 63MHz High Speed*	8-Dip	5.40	4.32	3.36
OP37GPZ-ND	Op Amp Precision Low Noise 63MHz High Speed*	8-Dip	2.53	2.02	1.52
OP37GS-ND	Op Amp Precision Low Noise 63MHz High Speed	8-SOIC	2.40	1.92	1.44
OP37GSZ-ND	Op Amp Precision Low Noise 63MHz High Speed*	8-SOIC	2.20	1.76	1.32
OP42AZ-ND	Op Amp Precision High Speed	8-CDip	22.71	21.20	19.69
OP42EJ-ND	Op Amp Precision High Speed	TO-99	17.01	15.32	13.58
OP42EZ-ND	Op Amp Precision High Speed	8-CDip	14.98	13.49	11.96
OP77EZ-ND	Op Amp Super Precision OP07	8-CDip	10.16	8.13	6.86
OP77FJ-ND	Op Amp Super Precision OP07	TO-99	9.52	7.62	6.43
OP77FJZ-ND	Op Amp Super Precision OP07* ***NEW!***	TO-99	8.66	6.93	5.85
OP77FZ-ND	Op Amp Super Precision OP07	8-CDip	5.94	4.76	4.01
OP177FPZ-ND	Op Amp Ultra-Precision High Gain*	8-Dip	4.95	3.96	3.08
OP177FSZ-ND	Op Amp Ultra-Precision High Gain*	8-SOIC	4.95	3.96	3.08
OP177GPZ-ND	Op Amp Ultra-Precision*	8-Dip	1.75	1.40	1.05
OP177GSZ-ND	Op Amp Ultra-Precision*	8-SOIC	1.75	1.40	1.05
OP177GS-REEL7CT-ND	Op Amp Ultra-Precision	8-SOIC	1.83	1.46	1.10
OP177GS-REEL7TR-ND	Op Amp Ultra-Precision	8-SOIC	949.00/1,000		
OP184ESZ-ND	Op Amp Precision Single Supply Rail-to-Rail*	8-SOIC	5.48	4.39	3.70
OP184FSZ-ND	Op Amp Precision Single Supply Rail-to-Rail*	8-SOIC	4.10	3.28	2.55
OP191GSZ-ND	Op Amp Single Supply Rail-to-Rail Low Power*	8-SOIC	3.60	2.88	2.24
OP196GSZ-ND	Op Amp Single Supply Rail-to-Rail Low Power*	8-SOIC	2.97	2.38	1.85
OP200AZ-ND	Op Amp Dual Ultra-Precision*	8-CDip	18.09	16.89	15.68
OP200GPZ-ND	Op Amp Dual Ultra-Precision*	8-Dip	6.17	4.94	3.84
OP200GSZ-ND	Op Amp Dual Ultra-Precision*	16-SOIC	6.17	4.94	3.84
OP262GSZ-ND	Op Amp Dual 15MHz Rail-to-Rail*	8-SOIC	4.50	3.60	2.80
OP262HRUZ-ND	Op Amp Dual 15MHz Rail-to-Rail*	8-TSSOP	5.36	4.29	3.34
OP282GSZ-ND	Op Amp Dual JFET Input*	8-SOIC	2.61	2.09	1.63
OP284EPZ-ND	Op Amp Dual Precision Rail-to-Rail*	8-Dip	8.48	6.79	5.73
OP284ESZ-ND	Op Amp Dual Precision Rail-to-Rail*	8-SOIC	8.32	6.66	5.62
OP284FSZ-ND	Op Amp Dual Precision Rail-to-Rail*	8-SOIC	5.68	4.55	3.84
OP284FS-REEL7CT-ND	Op Amp Dual Precision Rail-to-Rail	8-SOIC	6.24	5.00	4.22
OP284FS-REEL7TR-ND	Op Amp Dual Precision Rail-to-Rail	8-SOIC	3900.00/1,000		
OP285GSZ-ND	Op Amp Dual Precision 9MHz*	8-SOIC	5.06	4.05	3.15
OP290GP-ND	Op Amp Dual Precision Single Supply	8-Dip	5.98	4.79	4.04
OP290GPZ-ND	Op Amp Dual Precision Single Supply*	8-Dip	5.72	4.58	3.87
OP297EZ-ND	Op Amp Dual Low Off/Bias	8-Dip	11.41	10.28	9.12
OP297FPZ-ND	Op Amp Dual Low Off/Bias*	8-Dip	5.52	4.42	3.73
OP297FSZ-ND	Op Amp Dual Low Off/Bias*	8-SOIC	6.01	4.81	3.74
OP297GPZ-ND	Op Amp Dual Low Off/Bias*	8-Dip	4.88	3.91	3.04
OP297GSZ-ND	Op Amp Dual Low Off/Bias*	8-SOIC	4.61	3.69	2.87
OP297GS-REEL7CT-ND	Op Amp Dual Low Off/Bias	8-SOIC	5.06	4.05	3.15
OP297GS-REEL7TR-ND	Op Amp Dual Low Off/Bias	8-SOIC	2869.00/1,000		
OP484ESZ-ND	Op Amp Quad Precision Rail-to-Rail*	14-SOIC	12.38	11.15	9.89
OP484FPZ-ND	Op Amp Quad Precision Rail-to-Rail*	14-Dip	9.94	7.96	6.71
OP484FSZ-ND	Op Amp Quad Precision Rail-to-Rail*	14-SOIC	9.46	7.57	6.39
OP484FS-REEL7CT-ND	Op Amp Quad Precision Rail-to-Rail	14-SOIC	8.33	7.50	6.65
OP491GPZ-ND	Op Amp Quad Single Supply Rail-to-Rail*	14-Dip	6.82	5.46	4.61
OP491GRUZ-REELCT-ND	Op Amp Quad Single Supply Rail-to-Rail*	14-TSSOP	6.12	4.90	4.14
OP491GRUZ-REELTR-ND	Op Amp Quad Single Supply Rail-to-Rail*	14-TSSOP	9485.00/2,500		
OP491GSZ-ND	Op Amp Quad Single Supply Rail-to-Rail*	14-SOIC	6.82	5.46	4.61
OP727ARUZ-ND	Op Amp Dual Precision Rail-to-Rail Out*	8-TSSOP	3.83	3.06	2.38
OP727ARZ-ND	Op Amp Dual Precision Rail-to-Rail Out*	8-SOIC	3.83	3.06	2.38
OP747ARZ-ND	Op Amp Quad Precision Rail-to-Rail Out*	14-SOIC	6.24	5.00	4.22
OP747ARUZ-ND	Op Amp Quad Precision Rail-to-Rail*	14-TSSOP	6.24	5.00	4.22
OP777AR-ND	Op Amp Precision Single Supply Rail-to-Rail	8-SOIC	2.68	2.15	1.67
OP777ARMZ-REELCT-ND	Op Amp Precision Single Supply Rail-to-Rail*	8-MSOP	2.43	1.95	1.52
OP777ARMZ-REELTR-ND	Op Amp Precision Single Supply Rail-to-Rail*	8-MSOP	3855.00/3,000		
OP777ARZ-ND	Op Amp Precision Single Supply Rail-to-Rail*	8-SOIC	2.57	2.06	1.60
OP1177ARZ-ND	Op Amp Precision Low Noise Bias Current*	8-SOIC	2.43	1.94	1.46
OP1177ARMZ-REELCT-ND	Op Amp Precision Low Noise Bias Current*	8-MSOP	2.00	1.60	1.20
OP1177ARMZ-REELTR-ND	Op Amp Precision Low Noise Bias Current*	8-MSOP	3072.00/3,000		
OP4177ARZ-ND	Op Amp Quad Precision Low Noise*	14-SOIC	7.92	6.34	5.35
OP4177ARUZ-ND	Op Amp Quad Precision Low Noise*	14-TSSOP	7.92	6.34	5.35

Trans Line Driver

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8323ARU-ND	Low Noise Driver CATV Fine-Step	28-TSSOP	8.36	6.69	5.65

Variable Gain Amplifiers

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD600AQ-ND	VGA Dual, Adjustable Gain	16-Dip	36.53	34.09	31.66
AD600AR-ND	VGA Dual, Adjustable Gain	16-SOIC	31.83	29.71	27.59
AD600ARZ-ND	VGA Dual, Adjustable Gain*	16-SOIC	30.45	28.42	26.39
AD600JNZ-ND	VGA Dual, Adjustable Gain*	16-Dip	23.42	21.86	20.30
AD600JR-ND	VGA Dual, Adjustable Gain	16-SOIC	24.48	22.85	21.22
AD600JRZ-ND	VGA Dual, Adjustable Gain*	16-SOIC	23.42	21.86	20.30
AD602ARZ-ND	VGA Dual 35MHz Low Noise*	16-SOIC	30.45	28.42	26.39
AD602JRZ-ND	VGA Dual 35MHz Low Noise*	16-SOIC	23.42	21.86	20.30
AD603-EVALZ-ND	Evaluation Board for AD603*	—	81.25	—	—
AD603AQ-ND	VGA 90MHz Low Noise	8-Dip	9.40	8.46	7.51
AD603ARZ-ND	VGA 90MHz Low Noise*	8-SOIC	10.28	8.23	6.94
AD604ARZ-ND	Amp Dual Adj. Gain Linear*	24-SOIC	23.18	21.63	20.09
AD604ARSZ-ND	Amp Dual Adj. Gain Linear*	24-SSOP	27.83	25.97	24.12
AD605ANZ-ND	VGA Dual 40MHz Low Noise*	16-Dip	17.54	15.80	14.01
AD605ARZ-ND	VGA Dual 40MHz Low Noise*	16-SOIC	17.54	15.80	14.01
AD8330-EVALZ-ND	Evaluation Board for AD8330*	—	106.88	—	—
AD8330ACPZ-R7CT-ND	VGA Single*	16-LFCSP	10.28	8.23	6.94
AD8330ACPZ-R7TR-ND	VGA Single*	16-LFCSP	9521.85/1,500		
AD8330ARQZ-ND	VGA Single*	16-QSOP	8.56	7.71	6.84
AD8331ARQZ-ND	VGA Single with Preamp Ultralow Noise *	20-QSOP	9.96	8.97	7.96
AD8331-EVAL-ND	Evaluation Board for AD8331	—	93.68	—	—
AD8331-EVALZ-ND	Evaluation Board for AD8331* ***NEW!***	—	87.50	—	—
AD8332-EVALZ-ND	Evaluation Board for AD8332*	—	147.00	—	—
AD8332ACP-R2CT-ND	VGA Dual with Preamp Ultralow Noise	32-LFCSP	18.42	17.20	15.97
AD8332ACPZ-R7CT-ND	VGA Dual with Preamp Ultralow Noise*	32-LFCSP	20.46	18.42	16.34

*** RoHS Compliant**

(Continued)

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AMPLIFIERS *(Continued)*

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
AD8332ACPZ-R7TR-ND	VGA Dual with Preamp Ultralow Noise*	32-LFCSP	22748.70/1,500		
AD8332ARU-ND	VGA Dual with Preamp Ultralow Noise	28-TSSOP	21.39	19.26	17.08
AD8332ARUZ-ND	VGA Dual with Preamp Ultralow Noise*	28-TSSOP	18.42	17.20	15.97
AD8334-EVAL-ND	Evaluation Board for AD8334*	—	312.50	—	—
AD8334ACPZ-REEL7CT-ND	VGA Quad with Preamp Ultralow Noise*	64-LFCSP	26.93	25.13	23.34
AD8334ACPZ-REEL7TR-ND	VGA Quad with Preamp Ultralow Noise*	64-LFCSP	16828.13/750		
AD8336ACPZ-R7CT-ND	General Purpose, Wide Band, DC-Coupled VGA*	16-LFCSP	9.18	7.35	6.20
AD8336ACPZ-R7TR-ND	General Purpose, Wide Band, DC-Coupled VGA*	16-LFCSP	8607.00/1,500		
AD8336-EVALZ-ND	Evaluation Board for AD8336*	—	99.94	—	—
AD8337BCPZ-R2CT-ND	General Purpose, Low Cost, DC-Coupled VGA*	8-LFCSP	5.98	4.79	4.04
AD8337BCPZ-R2TR-ND	General Purpose, Low Cost, DC-Coupled VGA*	8-LFCSP	971.75/250		
AD8337BCPZ-WP-ND	General Purpose, Low Cost, DC-Coupled VGA*	8-LFCSP	5.98	4.79	4.04
AD8337-EVAL-INV-ND	Evaluation Board for AD8337 INV	—	68.69	—	—
AD8337-EVAL-SS-ND	Evaluation Board for AD8337 SS	—	68.69	—	—
AD8337-EVALZ-ND	Evaluation Board for AD8337*	—	87.50	—	—
AD8367ARUZ-ND	VGA with AGC Detector*	14-TSSOP	9.96	7.97	6.73
AD8368ACPZ-REEL7CT-ND	VGA 800MHz, Linear-in-dB*	24-LFCSP	9.96	7.97	6.73
AD8368ACPZ-REEL7TR-ND	VGA 800MHz, Linear-in-dB*	24-LFCSP	9337.50/1,500		
AD8368-EVALZ-ND	Evaluation Board for AD8368*	—	148.50	—	—
AD8369ARU-ND	VGA Digital Controller	16-TSSOP	10.96	8.77	7.40
AD8369ARUZ-ND	VGA Digital Controller*	16-TSSOP	9.96	7.97	6.73
AD8370AREZ-ND	Digital VGA LF to 750MHz*	16-TSSOP	9.96	7.97	6.73
AD8372ACPZ-R7CT-ND	Programmable Dual VGA* ***NEW!***	32-LFCSP	10.83	9.75	8.65
AD8372ACPZ-R7TR-ND	Programmable Dual VGA* ***NEW!***	32-LFCSP	12041.25/1,500		
AD8375ACPZ-R7CT-ND	Ultralow Distortion IF VGA*	24-LFCSP	8.98	7.19	6.07
AD8375ACPZ-R7TR-ND	Ultralow Distortion IF VGA*	24-LFCSP	8418.75/1,500		
AD8376ACPZ-R7CT-ND	Ultralow Distortion IF VGA* ***NEW!***	32-LFCSP	10.81	9.74	8.64
AD8376ACPZ-R7TR-ND	Ultralow Distortion IF VGA* ***NEW!***	32-LFCSP	12022.73/1,500		
ADL5330ACPZ-REEL7CT-ND	VGA 10MHz to 3GHz*	24-LFCSP	10.98	8.79	7.42
ADL5330ACPZ-REEL7TR-ND	VGA 10MHz to 3GHz*	24-LFCSP	10170.23/1,500		

ANALOG COMPUTATION CIRCUITS

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
AD630ADZ-ND	Balanced Mod/Demod 2MHz*	20-Dip	17.85	16.66	15.47
AD630AR-ND	Balanced Mod/Demod 2MHz	20-SOIC	17.75	16.57	15.38
AD630ARZ-ND	Balanced Mod/Demod 2MHz*	20-SOIC	16.97	15.84	14.71
AD630JNZ-ND	Balanced Mod/Demod 2MHz*	20-Dip	17.76	15.99	14.18
AD7502JNZ-ND	Analog Multiplexer 4-Channel*	16-Dip	11.38	10.25	9.09
AD7569JP-ND	LC^{2}MOS Complete, 8-Bit Analog I/O System	28-PLCC	17.69	15.93	14.13
AD7569JRZ-ND	LC^{2}MOS Complete, 8-Bit Analog I/O System*	24-SOIC	15.38	13.85	12.28

ANALOG/DIGITAL AUDIO

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
AD1940YST-ND	SigmaDSP™ Multichannel 28-Bit Audio Processor	48-LQFP	12.81	11.54	10.23
AD1940YSTZ-ND	SigmaDSP™ Multichannel 28-Bit Audio Processor*	48-LQFP	16.49	14.85	13.17
EVAL-AD1940EB-ND	Evaluation Board for AD1940	—	786.38	—	—
EVAL-AD1940MINIB-ND	Evaluation Board for AD1940 SigmaDSP™* ***NEW!***	—	498.75	—	—
SSM2018PZ-ND	Amp Voltage Control Audio*	16-Dip	5.68	4.55	3.84
SSM2018TPZ-ND	Amp Voltage Control Audio/Trimless*	16-Dip	7.10	5.68	4.80
SSM2019BNZ-ND	Amp Audio Self-Contained Preamp*	8-Dip	4.61	3.69	2.87
SSM2019BRN-ND	Amp Audio Self-Contained Preamp	8-SOIC	4.61	3.69	2.87
SSM2019BRW-ND	Amp Audio Self-Contained Preamp	16-SOIC	5.09	4.07	3.17
SSM2019BRWZ-ND	Amp Audio Self-Contained Preamp*	16-SOIC	4.61	3.69	2.87
SSM2135SZ-ND	Amp Dual Audio Single Supply*	8-SOIC	5.51	4.41	3.43
SSM2141PZ-ND	Amp Differential Line Receiver High Common-Mode*	8-Dip	3.51	2.81	2.19
SSM2141SZ-ND	Amp Differential Line Receiver High Common-Mode*	8-SOIC	3.51	2.81	2.19
SSM2142PZ-ND	Amp Balance-Line Driver*	8-Dip	5.33	4.27	3.32
SSM2142SZ-ND	Amp Balance-Line Driver*	16-SOIC	5.33	4.27	3.32
SSM2143PZ-ND	Amp Differential Line Receiver High Common-Mode*	8-Dip	3.35	2.69	2.09
SSM2143SZ-ND	Amp Differential Line Receiver High Common-Mode*	8-SOIC	3.35	2.69	2.09
SSM2160SZ-ND	Balance/Voltage Control Digital*	24-SOIC	11.88	10.70	9.49
SSM2164PZ-ND	Amp Quad Voltage Controller*	16-Dip	5.86	4.69	3.96
SSM2164SZ-ND	Amp Quad Voltage Controller*	16-SOIC	5.86	4.69	3.96
SSM2166SZ-ND	Preamp Microphone 5V*	14-SOIC	5.68	4.55	3.84
SSM2167-1RMZ-REELCT-ND	Low Voltage Microphone Preamp*	10-MSOP	2.30	1.84	1.43
SSM2167-1RMZ-REELTR-ND	Low Voltage Microphone Preamp*	10-MSOP	3855.00/3,000		
SSM2167Z-EVAL-ND	Evaluation Board for SSM2167* ***NEW!***	—	51.56	—	—
SSM2210PZ-ND	Transistor Audio Dual NPN Match*	8-Dip	5.29	4.23	3.29
SSM2210SZ-ND	Transistor Audio Dual NPN Match*	8-SOIC	5.29	4.23	3.29
SSM2220PZ-ND	Audio Dual Matched PNP Transistor*	8-Dip	5.72	4.58	3.87
SSM2250RUZ-ND	Mono 1.5W/Stereo 250mW Power Amp*	14-TSSOP	2.54	2.04	1.59
SSM2304CPZ-REEL7CT-ND	Amp Stereo Audio 2W Filterless Class-D*	16-LFCSP	1.55	1.24	.93
SSM2304CPZ-REEL7TR-ND	Amp Stereo Audio 2W Filterless Class-D*	16-LFCSP	1209.00/1,500		

ATE AND TIME DOMAIN

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
AD53040KRP-ND	Pin Driver with Inhibit	20-PSOP	36.12	33.72	31.31
AD5520JST-ND	Single Parametric Measure	64-LQFP	34.85	32.53	30.20
AD5520JSTZ-ND	Single Parametric Measure*	64-LQFP	31.68	29.57	27.46

AUDIO/VIDEO — *RoHS Compliant*

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
AD8191AASTZ-ND	4:1 HDMI/DVI Switch with Equalization ***NEW!***	100-LQFP	11.88	10.70	9.49
AD8191ASTZ-ND	4:1 HDMI/DVI Switch with Equalization	100-LQFP	11.88	10.70	9.49
AD8194ACPZ-ND	Buffered 2:1 TMDS Switch w/Equalization ***NEW!***	32-LFCSP	4.73	3.78	2.94
AD8197AASTZ-ND	4:1 HDMI/DVI Switch with Equalization ***NEW!***	100-LQFP	12.38	11.15	9.89
AD9880KSTZ-150-ND	Analog/HDMI Dual Display Interface	100-LQFP	15.56	14.01	12.43
AD9983KSTZ-110-ND	Analog Interface 8-Bit	80-LQFP	8.04	6.44	5.43
ADA4417-3ARMZ-ND	Integrated Triple Video Filter for High Definition Video	10-MSOP	3.11	2.49	1.94
ADA4430-1YKSZ-R7CT-ND	Ultralow Power Video Filter	SC70-6	1.47	1.23	.98
ADA4430-1YKSZ-R7TR-ND	Ultralow Power Video Filter	SC70-6	1911.00/3,000		
ADA4431-1YCPZ-R7CT-ND	Ultralow Power SD Video Filter	16-LFCSP	1.47	1.23	.98
ADA4431-1YCPZ-R7TR-ND	Ultralow Power SD Video Filter	16-LFCSP	977.55/1,500		
ADAU1513ACPZ-ND	Class-D Audio Power Stage	48-LFCSP	6.88	5.51	4.65
ADAU1592ACPZ-ND	Class-D Audio Power Amp	48-LFCSP	8.00	6.40	5.40
ADAU1592ASVZ-ND	Class-D Audio Power Amp	48-TQFP	8.00	6.40	5.40
ADAU1701JSTZ-ND	SigmaDSP® 28/56-Bit Audio Processor with 2 ADC and 4 DACs	48-LQFP	9.90	7.92	6.69
ADAU1702JSTZ-ND	SigmaDSP® 28/56-Bit Audio Processor with 2 ADC and 4 DACs	48-LQFP	7.80	6.24	5.27

CCD — *RoHS Compliant*

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
AD9824KCPZ-ND	CCD Signal Processor 14-Bit	48-LFCSP	23.27	21.72	20.17
AD9840AJSTZ-ND	CCD Signal Processor 10-Bit	48-LQFP	9.55	8.60	7.63
AD9845BJSTZ-ND	CCD Signal Processor 12-Bit	48-LQFP	15.11	14.10	13.10
AD9927BBCZ- ND	CCD Signal Processor 14-Bit	128-CSPBGA	17.46	16.30	15.14
AD9929BBCZ-ND	CCD Signal Processor	64-BGA	18.24	17.03	15.81
AD9943KCPZ-ND	CCD Signal Processor 10-Bit	32-LFCSP	7.26	5.81	4.91
AD9944KCPZ-ND	CCD Signal Processor 12-Bit	32-LFCSP	8.20	6.56	5.54
AD9945KCPZ-ND	CCD Signal Processor	32-LFCSP	8.63	7.77	6.89
AD9949AKCPZ-ND	CCD Signal Processor 12-Bit	40-LFCSP	13.43	12.09	10.72
AD9973BBCZ-ND	CCD Signal Processor	84-CSPBGA	65.18	60.83	56.49

CLOCK GENERATION AND DISTRIBUTION — *RoHS Compliant*

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
AD9511BCPZ-ND	1.2GHz Clock Distribution, 3 Outputs	48-LFCSP	17.61	16.44	15.27
AD9513BCPZ-ND	800MHz Clock Distribution, 3 Outputs	32-LFCSP	11.66	10.50	9.31
AD9514BCPZ-ND	1.6GHz Clock Distribution, 3 Outputs	32-LFCSP	11.66	10.50	9.31
AD9515BCPZ-ND	1.6GHz Clock Distribution, 2 Outputs	32-LFCSP	9.33	8.40	7.45
AD9516-1/PCBZ-ND	Evaluation Board for AD9516-1	—	134.38	—	—
AD9516-1BCPZ-ND	14-Output Clock Generator, 2.5GHz VCO	64-LFCSP	22.05	20.58	19.11
AD9516-2/PCBZ-ND	Evaluation Board for AD9516-2	—	134.38	—	—
AD9516-2BCPZ-ND	14-Out. Clock Generator, Integrated 2.2GHz VCO	64-LFCSP	22.05	20.58	19.11
AD9516-3/PCBZ-ND	Evaluation Board for AD9516-3	—	134.38	—	—
AD9516-3BCPZ-ND	14-Out. Clock Generator, Integrated 2.0GHz VCO	64-LFCSP	22.05	20.58	19.11
AD9516-4/PCBZ-ND	Evaluation Board for AD9516-4	—	134.38	—	—
AD9516-4BCPZ-ND	14-Output Clock Generator, 1.6GHz VCO	64-LFCSP	22.05	20.58	19.11
AD9517-1BCPZ-ND	12-Output Clock Generator with Integrated 2.5GHz VCO	48-LFCSP	20.12	18.78	17.44
AD9517-1/PCBZ-ND	Evaluation Board for AD9517-1	—	134.38	—	—
AD9517-2BCPZ-ND	12-Output Clock Generator with Integrated 2.2GHz VCO	48-LFCSP	20.12	18.78	17.44
AD9517-2/PCBZ-ND	Evaluation Board for AD9517-2	—	134.38	—	—
AD9517-3BCPZ-ND	12-Output Clock Generator with Integrated 2.0GHz VCO	48-LFCSP	20.12	18.78	17.44
AD9517-4BCPZ-ND	12-Output Clock Generator with Integrated 1.6GHz VCO	48-LFCSP	20.12	18.78	17.44
AD9518-0BCPZ-ND	6-Output Clock Generator with Integrated 2.8GHz VCO	48-LFCSP	17.39	16.23	15.07
AD9518-1BCPZ-ND	6-Output Clock Generator with Integrated 2.5GHz VCO	48-LFCSP	17.39	16.23	15.07
AD9518-4BCPZ-ND	6-Output Clock Generator with Integrated 1.6GHz VCO	48-LFCSP	17.39	16.23	15.07
AD9540BCPZ-ND	655MHz Low Jitter Clock Generator	48-LFCSP	17.55	16.38	15.21
ADCLK905/PCBZ-ND	Evaluation Board for ADCLK905	—	134.38	—	—
ADCLK905BCPZ-R7CT-ND	1-Input, 1-Output, Ultrafast SiGe ECL Clock/Data Buffer	16-LFCSP	10.98	9.89	8.77
ADCLK905BCPZ-R7TR-ND	1-Input, 1-Output, Ultrafast SiGe ECL Clock/Data Buffer	16-LFCSP	12207.98/1,500		
ADCLK907/PCBZ-ND	Evaluation Board for ADCLK907	—	134.38	—	—
ADCLK907BCPZ-R7CT-ND	Dual 1-Input, 1-Output, Ultrafast SiGe ECL Clock/Data Buffer	16-LFCSP	11.25	10.13	8.98
ADCLK907BCPZ-R7TR-ND	Dual 1-Input, 1-Output, Ultrafast SiGe ECL Clock/Data Buffer	16-LFCSP	12504.38/1,500		
ADCLK925/PCBZ-ND	Evaluation Board for ADCLK925	—	134.38	—	—
ADCLK925BCPZ-R7CT-ND	1-Input, 2-Output, Ultrafast SiGe ECL Clock/Data Buffer	16-LFCSP	9.91	8.93	7.92
ADCLK925BCPZ-R7TR-ND	1-Input, 2-Output, Ultrafast SiGe ECL Clock/Data Buffer	16-LFCSP	11022.38/1,500		

DATA COMMUNICATION

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
	ASRC				
AD1890JPZ-ND	Converter Sample Rate Async.*	28-PLCC	30.96	28.90	26.84
AD1895AYRSZ-ND	Converter Sample Rate Async.*	28-SSOP	8.83	7.95	7.05
AD1896AYRSZ-ND	Converter Sample Rate Async.*	28-SSOP	18.75	17.50	16.25
EVAL-AD1896EB-ND	Evaluation Board for AD1896	—	187.50	—	—
	CODEC				
AD1835AASZ-ND	Codec 2ADC/8DAC 24-Bit*	52-MQFP	15.00	14.00	13.00
AD1836AASZ-ND	Codec Stereo 4ADC/6DAC*	52-MQFP	15.75	14.70	13.65
AD1837AAS-ND	Codec 2ADC/8DAC 24-Bit	52-MQFP	17.88	16.10	14.28
AD1838AAS-ND	Codec 2ADC/6DAC 24-Bit	52-MQFP	17.64	15.89	14.09
AD1845JSTZ-ND	Parallel-Port 16-Bit SoundPort® Stereo Codec*	100-TQFP	15.56	14.52	13.49
AD1881AJSTZ-ND	Audio Codec AC'97*	48-LQFP	8.54	6.84	5.77
AD1884JCPZ-ND	HD Audio SoundMAX® Codec*	48-LFCSP	5.18	4.15	3.50
AD1885JSTZ-ND	Audio Codec AC'97*	48-LQFP	6.66	5.33	4.50
AD1938YSTZ-ND	Codec 4ADC/8DAC 24-Bit*	48-LQFP	13.01	11.72	10.39
AD1939YSTZ-ND	Codec 4ADC/8DAC 24-Bit*	64-LQFP	14.06	12.66	11.23
AD1980JST-ND	Codec Stereo 6DAC 20-Bit	48-LQFP	8.36	6.69	5.65
AD1981BBSTZ-ND	AC'97 SoundMAX® Codec*	48-LQFP	9.66	7.73	6.53
AD1981BJSTZ-ND	AC'97 SoundMAX® Codec*	48-LQFP	5.70	4.56	3.85
AD1981BLJSTZ-ND	AC'97 SoundMAX® Codec*	48-LQFP	6.70	5.36	4.53
AD1983JCPZ-ND	HD Audio SoundMAX® Codec*	32-LFCSP	5.44	4.36	3.68
AD1984JCPZ-ND	HD Audio SoundMAX® Codec*	48-LFCSP	6.22	4.98	4.20
AD1987JCPZ-ND	HD Audio SoundMAX® Codec*	48-LFCSP	5.90	4.72	3.99
AD1988AJSTZ-ND	HD Audio SoundMAX® Codec*	48-LQFP	6.42	5.14	4.34
AD74111YRUZ-ND	Codec Mono Audio Low Power*	16-TSSOP	5.88	4.71	3.97
ADAU1328BSTZ-ND	Codec 2ADC/8DAC 24-Bit*	48-LQFP	10.62	8.50	7.17

* *RoHS Compliant*

(Continued)

ANALOG DEVICES Digi Reel® DATA COMMUNICATION *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADAV801ASTZ-ND	Audio Codec for Recordable DVD*	64-LQFP	13.86	12.48	11.07
ADAV803ASTZ-ND	Audio Codec for Recordable DVD*	64-LQFP	15.36	14.34	13.32
ADV212BBCZ-115-ND	Codec JPEG 2000 Video*	121-CSPBGA	44.12	41.18	38.24
ADV212BBCZ-150-ND	Codec JPEG 2000 Video*	144-CSPBGA	52.94	49.41	45.88
ADV212BBCZRL-115CT-ND	Codec JPEG 2000 Video*	121-CSPBGA	44.12	41.18	38.24
ADV212BBCZRL-115TR-ND	Codec JPEG 2000 Video*	121-CSPBGA	54481.50/1,500		
ADV212BBCZRL-150CT-ND	Codec JPEG 2000 Video*	144-CSPBGA	52.94	49.41	45.88
ADV212BBCZRL-150TR-ND	Codec JPEG 2000 Video*	144-CSPBGA	43583.00/1,000		
ADV601JS12-ND	Codec Video 32-Bit	160-PQFP	65.73	61.35	56.97
ADV7202KST-ND	Codec Video 10-Bit	64-LQFP	14.08	12.68	11.24

DAS

Digi-Key Part No.	Description	Pkg.	1	25	100
AD974ARSZ-ND	DAS 16-Bit, 4-Channel, 200ksps*	28-SSOP	46.49	43.39	40.29
AD974ARZ-ND	DAS 16-Bit, 4-Channel, 200ksps*	28-SOIC	46.49	43.39	40.29
AD974BRZ-ND	DAS 16-Bit, 4-Channel, 200ksps*	28-SOIC	57.96	54.10	50.24
AD974BRSZ-ND	DAS 16-Bit, 4-Channel, 200ksps*	28-SSOP	57.96	54.10	50.24
AD7581KN-ND	DAS 8-Bit, 8-Channel	28-Dip	29.54	27.57	25.60
AD7581KNZ-ND	DAS 8-Bit, 8-Channel*	28-Dip	28.25	26.37	24.48
AD7581LN-ND	DAS 8-Bit, 8-Channel	28-Dip	34.28	31.99	29.71
AD7716BP-ND	DAS 22-Bit LC^{2}MOS	44-PLCC	61.20	57.12	53.04
AD7716BSZ-ND	DAS 22-Bit LC^{2}MOS*	44-PQFP	55.64	51.93	48.22
AD7874ANZ-ND	DAS 12-Bit, 4-Channel LC^{2}MOS*	28-Dip	54.47	50.84	47.21
AD7874ARZ-ND	DAS 12-Bit, 4-Channel LC^{2}MOS*	28-SOIC	52.88	49.35	45.83
AD7890ARZ-10-ND	DAS 12-Bit*	24-SOIC	18.00	16.80	15.60
AD7890BRZ-10-ND	DAS 12-Bit*	24-SOIC	23.70	22.12	20.54
AD7891APZ-1-ND	DAS 12-Bit, 8-Channel High Speed*	44-PLCC	26.25	24.50	22.75
AD7891AS-2-ND	DAS 12-Bit, 8-Channel High Speed	44-MQFP	28.88	26.95	25.03
AD7891ASZ-1-ND	DAS 12-Bit, 8-Channel High Speed*	44-MQFP	26.25	24.50	22.75
AD7891YP-1-ND	DAS 12-Bit, 8-Channel High Speed	44-PLCC	62.04	57.91	53.77

Modem Applications

Digi-Key Part No.	Description	Pkg.	1	25	100
AD9860BST-ND	Front-End Mixed-Signal	128-LQFP	26.69	24.91	23.13
AD9861BCP-50-ND	Front-End Mixed-Signal	64-LFCSP	20.79	19.41	18.02
AD9861BCPZ-50-ND	Front-End Mixed-Signal*	64-LFCSP	18.90	17.64	16.38
AD9861BCP-80-ND	Front-End Mixed-Signal	64-LFCSP	26.28	24.53	22.78
AD9862BST-ND	Front-End Mixed-Signal	128-LQFP	57.75	53.90	50.05
AD9862BSTZ-ND	Front-End Mixed-Signal*	128-LQFP	52.50	49.00	45.50
AD9863BCP-50-ND	Front-End Mixed-Signal	64-LFCSP	41.58	38.81	36.04
AD9863BCPZ-50-ND	Front-End Mixed-Signal*	64-LFCSP	37.80	35.28	32.76
AD9865BCP-ND	Front-End Mixed-Signal	64-LFCSP	19.32	18.04	16.75
AD9975BST-ND	Front-End Mixed-Signal	48-LQFP	14.04	13.11	12.17

ANALOG DEVICES Digi Reel® DATA CONVERSION

Analog-to-Digital

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD573JNZ-ND	ADC 10-Bit SAR Register*	20-Dip	38.36	35.80	33.25
AD573JPZ-ND	ADC 10-Bit SAR Register*	20-PLCC	38.36	35.80	33.25
AD574AJNZ-ND	ADC 12-Bit with Reference*	28-Dip	31.83	29.71	27.59
AD574AKD-ND	ADC 12-Bit with Reference	28-CDip	56.21	52.46	48.72
AD574AKNZ-ND	ADC 12-Bit with Reference*	28-Dip	42.14	39.33	36.52
AD574AKP-ND	ADC 12-Bit with Reference	28-PLCC	37.35	34.86	32.37
AD574AKPZ-ND	ADC 12-Bit with Reference* ***NEW!***	28-PLCC	37.35	34.86	32.37
AD574ASD-ND	ADC 12-Bit with Reference	28-CDip	136.64	127.53	118.42
AD670JNZ-ND	ADC 8-Bit Signal Condition*	20-Dip	18.05	16.85	15.64
AD674BAD-ND	ADC 12-Bit Mono 3-Output	28-CDip	46.91	43.78	40.66
AD676KD-ND	ADC 16-Bit, 100ksps	28-CDip	85.26	79.58	73.90
AD677JNZ-ND	ADC 16-Bit, 100ksps*	16-Dip	50.13	46.79	43.45
AD677JR-ND	ADC 16-Bit, 100ksps	28-SOIC	53.55	49.98	46.41
AD677JRZ-ND	ADC 16-Bit, 100ksps*	28-SOIC	48.68	45.43	42.19
AD677KR-ND	ADC 16-Bit, 100ksps	28-SOIC	62.99	58.79	54.59
AD677KRZ-ND	ADC 16-Bit, 100ksps*	28-SOIC	57.26	53.44	49.63
AD678BD-ND	ADC 12-Bit, 200ksps	28-CDip	119.19	111.25	103.30
AD678JNZ-ND	ADC 12-Bit, 200ksps*	28-Dip	54.63	50.99	47.35
AD679JNZ-ND	ADC 14-Bit, 128ksps*	28-Dip	60.11	56.10	52.10
AD679KNZ-ND	ADC 14-Bit, 128ksps*	28-Dip	70.82	66.10	61.38
AD774BARZ-ND	ADC 12-Bit Mono*	28-SOIC	36.63	34.19	31.75
AD779KD-ND	ADC 14-Bit Sampling	28-CDip	100.49	93.79	87.09
AD876JSTZ-ND	ADC CMOS 10-Bit, 20Msps*	48-TQFP	13.66	12.30	10.91
AD976AANZ-ND	ADC 16-Bit, 200ksps*	28-Dip	47.27	44.12	40.97
AD976AARZ-ND	ADC 16-Bit, 200ksps*	28-SOIC	45.89	42.83	39.77
AD976ABNZ-ND	ADC 16-Bit, 200ksps*	28-Dip	59.09	55.15	51.21
AD976ABRSZ-ND	ADC 16-Bit, 200ksps*	28-SSOP	57.36	53.54	49.72
AD976ABRZ-ND	ADC 16-Bit, 200ksps*	28-SOIC	57.36	53.54	49.72
AD976ANZ-ND	ADC 16-Bit, 100ksps*	28-Dip	37.80	35.28	32.76
AD976AR-ND	ADC 16-Bit, 100ksps	28-SOIC	40.38	37.69	35.00
AD976ARZ-ND	ADC 16-Bit, 100ksps*	28-SOIC	36.71	34.26	31.82
AD976ARS-ND	ADC 16-Bit, 200ksps	28-SSOP	40.38	37.69	35.00
AD976ARSZ-ND	ADC 16-Bit, 200ksps*	28-SSOP	36.71	34.26	31.82
AD976BNZ-ND	ADC 16-Bit, 100ksps*	28-Dip	47.27	44.12	40.97
AD976BRZ-ND	ADC 16-Bit, 100ksps*	28-SOIC	45.89	42.83	39.77
AD977ABNZ-ND	ADC 16-Bit, 200ksps*	20-Dip	59.09	55.15	51.21
AD977ABR-ND	ADC 16-Bit, 200ksps	20-SOIC	63.09	58.89	54.68
AD977ABRZ-ND	ADC 16-Bit, 200ksps*	20-SOIC	57.36	53.54	49.72
AD977ANZ-ND	ADC 16-Bit, 100ksps*	20-Dip	37.80	35.28	32.76
AD977ARZ-ND	ADC 16-Bit, 100ksps*	20-SOIC	36.71	34.26	31.82
AD977CNZ-ND	ADC 16-Bit, 100ksps*	20-Dip	29.03	27.09	25.16
AD977CRSZ-ND	ADC 16-Bit, 100ksps*	28-SSOP	28.19	26.31	24.43
AD1376KD-ND	ADC Single 16-Bit	32-Dip	393.75	367.50	341.25
AD1377KD-ND	ADC Single 16-Bit	32-Dip	552.17	515.36	478.55
AD1674ARZ-ND	ADC 12-Bit, 100ksps*	28-SOIC	25.47	23.78	22.08
AD1674BD-ND	ADC 12-Bit, 100ksps	28-CDip	58.74	54.83	50.91
AD1674BRZ-ND	ADC 12-Bit, 100ksps*	28-SOIC	35.34	32.99	30.63
AD1674JNZ-ND	ADC 12-Bit, 100ksps*	28-Dip	22.49	20.99	19.49
AD1674JRZ-ND	ADC 12-Bit, 100ksps*	28-SOIC	21.83	20.37	18.92
AD1674KNZ-ND	ADC 12-Bit, 100ksps*	28-Dip	31.47	29.38	27.28
AD1674KRZ-ND	ADC 12-Bit, 100ksps*	28-SOIC	30.54	28.51	26.47
AD1674TD-ND	ADC 12-Bit, 100ksps	28-CDip	110.15	102.81	95.46
AD1871YRSZ-ND	ADC Stereo Audio 24-Bit*	28-SSOP	9.38	8.45	7.49
AD1877JRZ-ND	ADC Stereo 16-Bit*	28-SOIC	12.03	10.83	9.61
AD1974YSTZ-ND	Four ADC with PLL, 192kHz, 24-Bit Codec*	48-LQFP	8.76	7.01	5.92

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD6640AST-ND	ADC 12-Bit, 65Msps	44-LQFP	56.43	52.67	48.91
AD6644ASTZ-40-ND	ADC 14-Bit, 40Msps*	52-LQFP	56.43	52.67	48.91
AD6644ASTZ-65-ND	ADC 14-Bit, 65Msps*	52-LQFP	75.74	70.69	65.64
AD6645-105/PCB-ND	Evaluation Board ADC 105Msps	—	258.00	—	—
AD6645-105/PCBZ-ND	Evaluation Board ADC 105Msps*	—	215.00	—	—
AD6645ASQZ-80-ND	ADC 14-Bit, 80Msps*	52-LQFP	77.12	71.98	66.84
AD6645ASQZ-105-ND	ADC 14-Bit, 105Msps*	52-LQFP	98.82	92.24	85.65
AD7266BCPZ-ND	ADC 12-Bit, 3-Channel SAR Dual 2Msps*	32-LFCSP	14.79	13.32	11.82
AD7266BSUZ-ND	ADC 12-Bit, 3-Channel SAR Dual 2Msps*	32-TQFP	14.79	13.32	11.82
AD7294BSUZ-ND	ADC 12-Bit, Multichannel with DAC/Temp* ***NEW!***	64-TQFP	17.13	15.99	14.85
AD7321BRUZ-ND	ADC 500ksps, 2-Channel, Software Selectable, True Bipolar In, 12-Bit+*	14-TSSOP	7.06	5.65	4.77
AD7322BRUZ-ND	ADC 2-Channel, Software Selectable, True Bipolar In, 1Msps, 12-Bit+*	14-TSSOP	9.31	8.39	7.44
AD7323BRUZ-ND	ADC 500ksps, 4-Channel, Software Selectable, True Bipolar In, 12-Bit+*	16-TSSOP	8.52	6.82	5.76
AD7324BRUZ-ND	ADC 4-Channel, Software Selectable, True Bipolar In, 12-Bit+*	16-TSSOP	11.26	10.14	9.00
AD7327BRUZ-ND	ADC 500ksps, 8-Channel, Software Selectable, True Bipolar In, 12-Bit+*	20-TSSOP	9.28	7.43	6.27
AD7328BRUZ-ND	ADC 8-Channel, Software Selectable, True Bipolar In, 12-Bit+*	20-TSSOP	12.25	11.03	9.78
EVAL-AD7328CB-ND	Evaluation Board for AD7328	—	168.75	—	—
AD7329BRUZ-ND	ADC 8-Channel, Software Selectable, True Bipolar In, 12-Bit+*	24-TSSOP	12.25	11.03	9.78
AD7366BRUZ-ND	ADC 12-Bit Bipolar Input, 2-Channel SAR*	24-TSSOP	12.84	11.57	10.26
AD7366BRUZ-5-ND	ADC 12-Bit Bipolar Input, 2-Channel SAR*	24-TSSOP	12.84	11.57	10.26
AD7367BRUZ-ND	ADC 14-Bit Bipolar Input, 2-Channel SAR*	24-TSSOP	14.79	13.32	11.82
AD7367BRUZ-5-ND	ADC 14-Bit Bipolar Input, 2-Channel SAR*	24-TSSOP	14.79	13.32	11.82
AD7440BRM-ND	ADC 10-Bit Differential-In 1Msps	8-MSOP	4.21	3.80	3.37
AD7440BRT-R2CT-ND	ADC 10-Bit Differential-Input 1Msps	SOT-23-8	6.46	5.17	4.37
AD7441BRM-ND	ADC 10-Bit Pseudo-Input 1Msps	8-MSOP	6.46	5.17	4.37
AD7441BRMZ-ND	ADC 10-Bit Pseudo-Input 1Msps*	8-MSOP	5.88	4.71	3.97
AD7450ABRM-ND	ADC 12-Bit Differential-In 1Msps	8-MSOP	11.26	9.01	7.61
AD7450ABRT-R2CT-ND	ADC 12-Bit Differential-In 1Msps	SOT-23-8	8.53	7.68	6.81
AD7450BR-ND	ADC 12-Bit Differential-In 1Msps	8-SOIC	9.38	8.45	7.49
AD7450BRZ-ND	ADC 12-Bit Differential-In 1Msps*	8-SOIC	10.24	8.20	6.92
AD7451ARM-ND	ADC 12-Bit Pseudo-In 1Msps	8-MSOP	11.00	8.80	7.43
AD7451ART-R2CT-ND	ADC 12-Bit Pseudo-In 1Msps	SOT-23-8	8.33	7.50	6.65
AD7451ART-R2TR-ND	ADC 12-Bit Pseudo-In 1Msps	SOT-23-8	1625.00/250		
AD7451BRM-ND	ADC 12-Bit Pseudo-In 1Msps	8-MSOP	11.78	9.43	7.96
AD7451BRT-R2CT-ND	ADC 12-Bit Pseudo-In 1Msps	SOT-23-8	8.91	8.03	7.12
AD7453BRTZ-R2CT-ND	ADC 12-Bit, 555ksps*	SOT-23-8	6.94	5.56	4.69
AD7453BRTZ-R2TR-ND	ADC 12-Bit, 555ksps*	SOT-23-8	1127.75/250		
AD7457BRTZ-REEL7CT-ND	ADC 12-Bit, 100ksps*	SOT-23-8	4.61	3.69	2.87
AD7457BRTZ-REEL7TR-ND	ADC 12-Bit, 100ksps*	SOT-23-8	7749.00/3,000		
AD7466BRMZ-ND	ADC 12-Bit Micropower 1.6V*	8-MSOP	5.52	4.42	3.73
AD7466BRTZREEL7CT-ND	ADC 12-Bit Micropower 1.6V*	SOT-23-6	5.29	4.23	3.29
AD7466BRTZREEL7TR-ND	ADC 12-Bit Micropower 1.6V*	SOT-23-6	8883.00/3,000		
AD7467BRM-ND	ADC 10-Bit Micropower 1.6V	8-MSOP	5.54	4.43	3.45
AD7467BRT-R2CT-ND	ADC 10-Bit Micropower 1.6V	SOT-23-6	5.54	4.43	3.45
AD7468BRMZ-ND	ADC 8-Bit Micropower 1.6V*	8-MSOP	3.04	2.43	1.89
AD7468BRT-R2CT-ND	ADC 8-Bit Micropower 1.6V	SOT-23-6	3.04	2.43	1.89
AD7468BRTZREEL7CT-ND	ADC 8-Bit Micropower 1.6V*	SOT-23-6	2.59	2.07	1.61
AD7468BRTZREEL7TR-ND	ADC 8-Bit Micropower 1.6V*	SOT-23-6	4347.00/3,000		
AD7470ARUZ-ND	ADC 10-Bit, 1.75Msps*	24-TSSOP	7.06	5.65	4.77
AD7475ARMZ-REEL7CT-ND	ADC 12-Bit, 1Msps*	8-MSOP	8.33	7.50	6.65
AD7475ARMZ-REEL7TR-ND	ADC 12-Bit, 1Msps*	8-MSOP	6175.00/1,000		
AD7475BR-ND	ADC 12-Bit, 1Msps	8-SOIC	12.68	10.15	8.56
AD7475BRZ-ND	ADC 12-Bit, 1Msps*	8-SOIC	11.52	9.22	7.78
AD7476ABKSZREELCT-ND	ADC 12-Bit, 2.35V, 1Msps*	SC70-6	8.33	7.50	6.65
AD7476ABKSZREELTR-ND	ADC 12-Bit, 2.35V, 1Msps*	SC70-6	18225.00/3,000		
AD7476ABRM-ND	ADC 12-Bit, 2.35V, 1Msps	8-MSOP	11.64	9.32	7.86
AD7476ABRMZ-ND	ADC 12-Bit, 2.35V, 1Msps*	8-MSOP	8.81	7.94	7.04
AD7476ARTZ-500RL7CT-ND	ADC 12-Bit, 2.35V, 1Msps*	SOT-23-6	8.42	6.74	5.69
AD7476ARTZ-500RL7TR-ND	ADC 12-Bit, 2.35V, 1Msps*	SOT-23-6	2673.35/500		
AD7476AWYRMZ-ND	ADC 12-Bit, 1Msps* ***NEW!***	8-MSOP	14.11	12.71	11.27
AD7477AWARMZ-ND	ADC 10-Bit, 1Msps* ***NEW!***	8-MSOP	7.06	5.65	4.77
AD7478AWARMZ-ND	ADC 8-Bit, 1Msps* ***NEW!***	8-MSOP	3.02	2.42	1.88
AD7476AYRMZ-ND	ADC 12-Bit, 2.35V, 1Msps*	8-MSOP	11.76	10.59	9.39
AD7477AARM-ND	ADC 10-Bit, 2.35V, 1Msps	8-MSOP	6.46	5.17	4.37
AD7477AARMZ-ND	ADC 10-Bit, 2.35V, 1Msps*	8-MSOP	5.88	4.71	3.97
AD7477ARTZ500RLCT-ND	ADC 10-Bit, 2.35V, 1Msps*	SOT-23-6	5.50	4.40	3.72
AD7477ARTZ500RLTR-ND	ADC 10-Bit, 2.35V, 1Msps*	SOT-23-6	1746.25/500		
AD7478AARM-ND	ADC 8-Bit, 2.35V, 1Msps	8-MSOP	3.08	2.46	1.85
AD7478AARMZ-ND	ADC 8-Bit, 2.35V, 1Msps*	8-MSOP	2.52	2.02	1.57
AD7478ARTZREEL7CT-ND	ADC 8-Bit, 2.35V, 1Msps*	SOT-23-6	2.38	1.90	1.43
AD7478ARTZREEL7TR-ND	ADC 8-Bit, 2.35V, 1Msps*	SOT-23-6	3648.00/3,000		
AD7482AST-ND	ADC 12-Bit SAR 3Msps	48-LQFP	14.99	13.50	11.97
AD7482BSTZ-ND	ADC 12-Bit SAR 3Msps*	48-LQFP	16.34	14.72	13.05
AD7484BST-ND	ADC 14-Bit SAR 3Msps	48-LQFP	23.30	21.75	20.19
AD7484BSTZ-ND	ADC 14-Bit SAR 3Msps*	48-LQFP	21.18	19.77	18.36
EVAL-AD7484CB-ND	Evaluation Board for AD7484	—	140.63	—	—
AD7485BST-ND	ADC 14-Bit SAR 1Msps	48-LQFP	19.41	17.48	15.50
AD7485BSTZ-ND	ADC 14-Bit SAR 1Msps*	48-LQFP	15.89	14.83	13.77
AD7490BCPZ-ND	ADC 12-Bit, 16-Channel, 1Msps*	32-LFCSP	11.66	10.50	9.31
AD7490BRUZ-ND	ADC 12-Bit, 16-Channel, 1Msps*	28-TSSOP	11.66	10.50	9.31
EVAL-AD7490CBZ-ND	Evaluation Board for AD7490* ***NEW!***	—	140.63	—	—
AD7572AQ05-ND	ADC 12-Bit High Speed LC^{2}MOS	24-CDip	72.90	68.04	63.18
AD7574JNZ-ND	ADC 8-Bit CMOS 5V*	18-Dip	13.66	12.30	10.91
AD7575JP-ND	ADC 8-Bit LC^{2}MOS with Hold	20-PLCC	10.90	9.81	8.70
AD7575JPZ-ND	ADC 8-Bit LC^{2}MOS with Hold*	20-PLCC	10.43	9.39	8.33
AD7582KNZ-ND	ADC 12-Bit CMOS*	28-Dip	39.12	36.52	33.91
AD7610BCPZ-ND	ADC 16-Bit, 250ksps PulSAR®*	48-LFCSP	21.41	19.98	18.56
AD7610BSTZ-ND	ADC 16-Bit, 250ksps PulSAR®*	48-LQFP	21.41	19.98	18.56
AD7612BCPZ-ND	ADC 16-Bit, 750ksps PulSAR®*	48-LFCSP	48.87	45.62	42.36
AD7612BSTZ-ND	ADC 16-Bit, 750ksps PulSAR®*	48-LQFP	48.87	45.62	42.36
EVAL-AD7612CBZ-ND	Evaluation Board for AD7612*	—	150.00	—	—
AD7621ASTZ-ND	ADC 16-Bit, 3Msps PulSAR®*	48-LQFP	49.70	46.39	43.07
EVAL-AD7621CBZ-ND	Evaluation Board for AD7621*	—	150.00	—	—
AD7631BCPZ-ND	ADC 18-Bit, 250ksps, Differential Programmable Input PulSAR®*	48-LFCSP	48.87	45.62	42.36

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7631BSTZ-ND	ADC 18-Bit, 250ksps, Diff. Prog. Input PulSAR®*	48-LQFP	48.87	45.62	42.36
AD7634BCPZ-ND	ADC 18-Bit PulSAR® Bipolar Programmable*	48-LFCSP	52.19	48.71	45.23
AD7641BSTZ-ND	ADC 18-Bit, SAR 2Msps*	48-LQFP	54.68	51.03	47.39
EVAL-AD7641CB-ND	Evaluation Board for AD7641	—	146.25	—	—
EVAL-AD7641CBZ-ND	Evaluation Board for AD7641*	—	150.00	—	—
AD7643BCPZ-ND	ADC 18-Bit, 1.25Msps PulSAR®*	48-LFCSP	49.70	46.39	43.07
AD7651ACP-ND	ADC 16-Bit, 100ksps PulSAR®	48-LFCSP	15.09	13.59	12.05
AD7651ASTZ-ND	ADC 16-Bit, 100ksps PulSAR®*	48-LQFP	13.73	12.36	10.96
AD7652ACP-ND	ADC 16-Bit, 500ksps w/Reference	48-LFCSP	19.08	17.18	15.23
AD7652AST-ND	ADC 16-Bit, 500ksps with Reference	48-LQFP	19.08	17.18	15.23
AD7653ASTZ-ND	ADC 16-Bit, 1Msps with Reference*	48-LQFP	19.08	17.81	16.54
AD7654ACPZ-ND	ADC 16-Bit, 500ksps Dual 2-Channel PulSAR®*	48-LFCSP	25.59	23.89	22.18
AD7654ASTZ-ND	ADC 16-Bit, 500ksps Dual 2-Channel PulSAR®*	48-LQFP	25.59	23.89	22.18
AD7655ACPZ-ND	ADC 16-Bit, 1Msps Quad*	48-LFCSP	15.68	14.63	13.59
AD7655ASTZ-ND	ADC 16-Bit, 1Msps Quad*	48-LQFP	15.68	14.63	13.59
EVAL-AD7655CBZ-ND	Evaluation Board for AD7655*	—	150.00	—	—
AD7656BSTZ-ND	ADC 16-Bit 250ksps, 6-Channel*	64-LQFP	30.00	28.00	26.00
EVAL-AD7656CBZ-ND	Evaluation Board for AD7656*	—	150.00	—	—
AD7657BSTZ-ND	ADC 14-Bit 250ksps, 6-Channel*	64-LQFP	22.86	21.34	19.82
EVAL-AD7657CBZ-ND	Evaluation Board for AD7657*	—	150.00	—	—
AD7658BSTZ-ND	ADC 12-Bit 250ksps, 6-Channel*	64-LQFP	18.71	17.46	16.22
AD7658YSTZ-ND	ADC 12-Bit 250ksps, 6-Channel*	64-LQFP	20.73	19.35	17.97
EVAL-AD7658CBZ-ND	Evaluation Board for AD7658*	—	150.00	—	—
AD7660ASTZ-ND	ADC 16-Bit Unipolar*	48-LQFP	15.66	14.10	12.51
AD7661AST-ND	ADC 16-Bit, 100ksps PulSAR® Unipolar	48-LQFP	18.13	16.32	14.48
AD7661ASTZ-ND	ADC 16-Bit, 100ksps PulSAR® Unipolar*	48-LQFP	16.48	14.84	13.16
AD7663ASTZ-ND	ADC 16-Bit, 250ksps*	48-LQFP	19.92	18.60	17.27
EVAL-AD7663CBZ-ND	Evaluation Board for AD7663*	—	150.00	—	—
AD7664ASTZ-ND	ADC 16-Bit Unipolar*	48-LQFP	30.95	28.89	26.82
AD7665ASTZ-ND	ADC 16-Bit CMOS 5V*	48-LQFP	31.52	29.42	27.32
AD7665ASTZRLCT-ND	ADC 16-Bit CMOS 5V*	48-LQFP	31.52	29.42	27.32
AD7665ASTZRLTR-ND	ADC 16-Bit CMOS 5V*	48-LQFP	51894.70/2,000		
AD7666AST-ND	ADC 16-Bit, 500ksps Unipolar	48-LQFP	32.85	30.66	28.47
AD7667ACP-ND	ADC 16-Bit, 1Msps Unipolar	48-LFCSP	42.90	40.04	37.18
AD7667AST-ND	ADC 16-Bit, 1Msps Unipolar	48-LQFP	42.90	40.04	37.18
AD7667ASTZ-ND	ADC 16-Bit, 1Msps Unipolar*	48-LQFP	39.00	36.40	33.80
AD7671ASTZ-ND	ADC 16-Bit CMOS 1Msps*	48-LQFP	46.38	43.29	40.20
AD7674ACP-ND	ADC 18-Bit, 800ksps	48-LFCSP	51.02	47.62	44.22
AD7674AST-ND	ADC 18-Bit, 800ksps	48-LQFP	51.02	47.62	44.22
AD7674ASTZ-ND	ADC 18-Bit, 800ksps*	48-LQFP	46.38	43.29	40.20
EVAL-AD7674CB-ND	Evaluation Board for AD7674	—	146.25	—	—
EVAL-AD7674CBZ-ND	Evaluation Board for AD7674*	—	150.00	—	—
AD7676ASTZ-ND	ADC 16-Bit, 500ksps Differential*	48-LQFP	41.40	38.64	35.88
AD7677ACPZ-ND	ADC 16-Bit, 1Msps Differential*	48-LFCSP	54.68	51.03	47.39
AD7677AST-ND	ADC 16-Bit, 1Msps Differential	48-LQFP	60.15	56.14	52.13
AD7677ASTZ-ND	ADC 16-Bit, 1Msps Differential*	48-LQFP	54.68	51.03	47.39
AD7678ACP-ND	ADC 18-Bit, 100ksps	48-LFCSP	35.04	32.71	30.37
AD7678ASTZ-ND	ADC 18-Bit, 100ksps*	48-LQFP	31.86	29.74	27.62
AD7679ACP-ND	ADC 18-Bit, 570ksps	48-LFCSP	46.73	43.61	40.50
AD7679ASTZ-ND	ADC 18-Bit, 570ksps*	48-LQFP	42.48	39.65	36.82
AD7680BRMZ-ND	ADC 16-Bit, 100ksps*	8-MSOP	11.06	9.96	8.84
AD7683BRMZ-ND	ADC 16-Bit, 100ksps*	8-MSOP	11.98	10.79	9.57
AD7684BRMZ-ND	ADC 16-Bit, 100ksps*	8-MSOP	11.98	10.79	9.57
EVAL-AD7684CBZ-ND	Evaluation Board for AD7684*	—	150.00	—	—
AD7685ARMZ-ND	ADC 16-Bit, 250ksps PulSAR®*	10-MSOP	11.98	10.79	9.57
AD7685BCPZRL7CT-ND	ADC 16-Bit, 250ksps PulSAR®* ***NEW!***	10-LFCSP	13.33	12.00	10.64
AD7685BCPZRL7TR-ND	ADC 16-Bit, 250ksps PulSAR®* ***NEW!***	10-LFCSP	14820.00/1,500		
AD7685BRMZ-ND	ADC 16-Bit, 250ksps PulSAR®*	10-MSOP	14.74	13.28	11.78
AD7685CRMZ-ND	ADC 16-Bit, 250ksps PulSAR®*	10-MSOP	15.93	14.87	13.81
EVAL-AD7685CBZ-ND	Evaluation Board for AD7685*	—	150.00	—	—
AD7686BRMZ-ND	ADC 16-Bit, 500ksps PulSAR®*	10-MSOP	19.92	18.60	17.27
AD7687BCPZRL7CT-ND	ADC 16-Bit, 250ksps PulSAR® Diff.* ***NEW!***	10-MSOP	14.91	13.43	11.91
AD7687BCPZRL7TR-ND	ADC 16-Bit, 250ksps PulSAR® Diff.* ***NEW!***	10-MSOP	16579.88/1,500		
AD7687BRMZ-ND	ADC 16-Bit, 250ksps PulSAR® Differential*	10-MSOP	16.49	14.85	13.17
EVAL-AD7687CB-ND	Evaluation Board for AD7687	—	146.25	—	—
EVAL-AD7687CBZ-ND	Evaluation Board for AD7687*	—	150.00	—	—
AD7688BRMZ-ND	ADC 16-Bit, 500ksps PulSAR® Differential*	10-MSOP	24.81	23.16	21.51
AD7690BRMZ-ND	ADC 18-Bit, 400ksps PulSAR® Differential*	10-MSOP	32.36	30.20	28.05
AD7691BRMZ-ND	ADC 18-Bit, 250ksps PulSAR® Differential*	10-MSOP	24.06	22.46	20.86
AD7693BRMZ-ND	ADC 16-Bit, 500ksps PulSAR®*	10-MSOP	29.87	27.88	25.89
AD7701ANZ-ND	ADC 16-Bit LC^{2}MOS*	20-Dip	22.80	21.28	19.76
AD7701BN-ND	ADC 16-Bit LC^{2}MOS	20-Dip	31.77	29.66	27.54
AD7701BNZ-ND	ADC 16-Bit LC^{2}MOS*	20-Dip	30.39	28.37	26.34
AD7703AR-ND	ADC 20-Bit LC^{2}MOS	20-SOIC	27.45	25.62	23.79
AD7703ARZ-ND	ADC 20-Bit LC^{2}MOS*	20-SOIC	26.25	24.50	22.75
AD7703BR-ND	ADC 20-Bit LC^{2}MOS	20-SOIC	32.64	30.47	28.29
AD7703CR-ND	ADC 20-Bit LC^{2}MOS	20-SOIC	40.05	37.38	34.71
AD7705BNZ-ND	ADC 16-Bit, 2-Channel*	16-Dip	8.33	7.50	6.65
AD7705BRZ-ND	ADC 16-Bit, 2-Channel*	16-SOIC	9.70	7.76	6.55
AD7705BRUZ-ND	ADC 16-Bit, 2-Channel*	16-TSSOP	9.70	7.76	6.55
AD7706BN-ND	ADC 16-Bit, 3-Channel	16-Dip	11.00	8.80	7.43
AD7706BNZ-ND	ADC 16-Bit, 3-Channel*	16-Dip	8.33	7.50	6.65
AD7706BRZ-ND	ADC 16-Bit, 3-Channel*	16-SOIC	9.70	7.76	6.55
AD7708BRUZ-ND	ADC 16-Bit Rail-to-Rail 8/10-Channel*	28-TSSOP	9.36	7.49	6.32
AD7708BRZ-ND	ADC 16-Bit Rail-to-Rail 8/10-Channel*	28-SOIC	9.36	7.49	6.32
EVAL-AD7708EBZ-ND	Evaluation Board for AD7708*	—	150.00	—	—
AD7709BRUZ-ND	ADC 16-Bit Sigma-Delta*	24-TSSOP	8.75	7.88	6.99
AD7710ANZ-ND	ADC Signal Conditioning*	24-Dip	32.40	30.24	28.08
AD7710ARZ-ND	ADC Signal Conditioning*	24-SOIC	32.40	30.24	28.08
AD7711ANZ-ND	ADC 24-Bit RTD Current Source*	24-Dip	34.31	32.02	29.74
AD7711ARZ-ND	ADC 24-Bit RTD Current Source*	24-SOIC	34.31	32.02	29.74
AD7712ANZ-ND	ADC Signal Conditioning LC^{2}MOS*	24-Dip	29.54	27.57	25.60
AD7712ARZ-ND	ADC Signal Conditioning LC^{2}MOS*	24-SOIC	29.54	27.57	25.60
AD7713ANZ-ND	ADC Signal Conditioning LC^{2}MOS*	24-Dip	36.23	33.81	31.40
AD7713ARZ-ND	ADC Signal Conditioning LC^{2}MOS*	24-SOIC	36.23	33.81	31.40
AD7714ANZ-3-ND	ADC Signal Conditioning 3V*	24-Dip	17.06	15.92	14.79
AD7714ANZ-5-ND	ADC Signal Conditioning 5V*	24-Dip	17.06	15.92	14.79
AD7714ARS-5-ND	ADC Signal Conditioning 5V	28-SSOP	20.23	18.21	16.15
AD7714ARZ-5-ND	ADC Signal Conditioning 5V*	24-SOIC	16.56	15.46	14.36
AD7714YNZ-ND	ADC Signal Conditioning*	24-Dip	15.05	14.05	13.04
AD7714YRUZ-ND	ADC Signal Conditioning 3V/5V*	24-TSSOP	16.23	14.61	12.96
AD7715ANZ-5-ND	ADC 16-Bit, 5V*	16-Dip	11.41	10.28	9.12
AD7715ARZ-5-ND	ADC 16-Bit, 5V*	16-SOIC	11.08	9.98	8.85
AD7716BPZ-ND	ADC 22-Bit LC^{2}MOS*	44-PLCC	55.64	51.93	48.22
AD7718BRUZ-ND	ADC 8/10-Channel, 24-Bit*	28-TSSOP	10.26	9.24	8.20
AD7718BRUZ-REEL7CT-ND	ADC 8/10-Channel, 24-Bit*	28-TSSOP	10.26	9.24	8.20
AD7718BRUZ-REEL7TR-ND	ADC 8/10-Channel, 24-Bit*	28-TSSOP	7607.60/1,000		
AD7718BRZ-ND	ADC 8/10-Channel, 24-Bit*	28-SOIC	10.26	9.24	8.20
AD7719BRUZ-ND	ADC 16/24-Bit Dual*	28-TSSOP	15.45	14.42	13.39
AD7719BRZ-ND	ADC 16/24-Bit Dual*	28-SOIC	15.45	14.42	13.39
AD7723BSZ-ND	ADC 16-Bit Sigma-Delta*	44-MQFP	40.59	37.89	35.18
EVAL-AD7723CB-ND	Evaluation Board for AD7723	—	140.63	—	—
AD7730BNZ-ND	ADC Bridge Transducer*	24-Dip	17.93	16.73	15.54
AD7730BRUZ-ND	ADC Bridge Transducer*	24-TSSOP	17.40	16.24	15.08
AD7730BRZ-ND	ADC Bridge Transducer*	24-SOIC	17.40	16.24	15.08
AD7730LBRUZ-ND	ADC Bridge Transducer*	24-TSSOP	15.91	14.33	12.71
AD7730LBRZ-ND	ADC Bridge Transducer*	24-SOIC	15.91	14.33	12.71
AD7731BRZ-ND	ADC 24-Bit*	24-SOIC	17.40	16.24	15.08
AD7731BRUZ-ND	ADC 24-Bit*	24-TSSOP	17.40	16.24	15.08
EVAL-AD7731EB-ND	Evaluation Board for AD7731	—	140.63	—	—
AD7732BRUZ-ND	ADC 24-Bit, 2-Channel*	28-TSSOP	15.00	14.00	13.00
AD7734BRUZ-ND	ADC 24-Bit, 4-Channel*	28-TSSOP	15.00	14.00	13.00
EVAL-AD7734EBZ-ND	Evaluation Board for AD7734*	—	169.00	—	—
AD7738BRUZ-ND	ADC 24-Bit, 8-Channel*	28-TSSOP	15.23	13.71	12.16
AD7739BRUZ-ND	ADC 24-Bit, 8-Channel*	24-TSSOP	14.99	13.50	11.97
AD7760BSVZ-ND	ADC 24-Bit, 2.5Msps*	64-TQFP	63.96	59.70	55.44
AD7762BSVZ-ND	ADC 24-Bit, 625ksps, Sigma-Delta*	64-TQFP	32.85	30.66	28.47
AD7764BRUZ-ND	ADC 24-Bit, Sigma-Delta*	28-TSSOP	23.15	21.61	20.06
AD7765BRUZ-ND	ADC 24-Bit, Sigma-Delta*	28-TSSOP	16.49	14.85	13.17
AD7766BRUZ-ND	ADC 24-Bit, 128ksps*	16-TSSOP	10.96	9.87	8.76
EVAL-AD7766EDZ-ND	Evaluation Board for AD7766*	—	140.63	—	—
AD7766BRUZ-1-ND	ADC 24-Bit, 64ksps*	16-TSSOP	10.96	9.87	8.76
EVAL-AD7766-1EDZ-ND	Evaluation Board for AD7766-1*	—	140.63	—	—
AD7766BRUZ-2-ND	ADC 24-Bit, 32ksps*	16-TSSOP	10.96	9.87	8.76
EVAL-AD7766-2EDZ-ND	Evaluation Board for AD7766-2*	—	140.63	—	—
AD7767BRUZ-ND	ADC 24-Bit, 128ksps*	16-TSSOP	15.66	14.10	12.51
EVAL-AD7767EDZ-ND	Evaluation Board for AD7767*	—	140.63	—	—
AD7767BRUZ-1-ND	ADC 24-Bit, 64ksps*	16-TSSOP	15.66	14.10	12.51
EVAL-AD7767-1EDZ-ND	Evaluation Board for AD7767-1*	—	140.63	—	—
AD7767BRUZ-2-ND	ADC 24-Bit, 32ksps*	16-TSSOP	15.66	14.10	12.51
AD7783BRU-ND	ADC 24-Bit, Sigma-Delta	16-TSSOP	11.00	8.80	7.43
AD7783BRUZ-ND	ADC 24-Bit, Sigma-Delta*	16-TSSOP	8.33	7.50	6.65
AD7785BRUZ-ND	ADC 20-Bit, Sigma-Delta*	16-TSSOP	9.90	7.92	6.69
EVAL-AD7785EBZ-ND	Evaluation Board for AD7785*	—	129.00	—	—
AD7788ARMZ-ND	ADC 16-Bit Low Power*	10-MSOP	5.27	4.22	3.28
AD7788BRMZ-ND	ADC 16-Bit Low Power*	10-MSOP	6.00	4.80	4.05
AD7789BRMZ-ND	ADC 24-Bit Low Power*	10-MSOP	6.94	5.56	4.69
AD7790BRMZ-ND	ADC 16-Bit Buffered Low Power*	10-MSOP	6.94	5.56	4.69
AD7791BRMZ-ND	ADC 24-Bit Buffered Low Power*	10-MSOP	9.00	7.20	6.08
AD7792BRUZ-ND	ADC 16-Bit, 3-Channel*	16-TSSOP	9.38	7.51	6.34
AD7793BRUZ-ND	ADC 24-Bit, 3-Channel*	16-TSSOP	10.00	9.00	7.98
EVAL-AD7793EB-ND	Evaluation Board for AD7793	—	145.13	—	—
EVAL-AD7793EBZ-ND	Evaluation Board for AD7793*	—	129.00	—	—
AD7794BRUZ-ND	ADC 24-Bit, 6-Channel*	24-TSSOP	11.36	10.23	9.08
AD7794CRUZ-ND	ADC 24-Bit, 6-Channel*	24-TSSOP	12.28	11.06	9.81
EVAL-AD7794EB-ND	Evaluation Board for AD7794	—	145.13	—	—
AD7795BRUZ-ND	ADC 16-Bit, 6-Channel*	24-TSSOP	8.66	7.80	6.92
AD7796BRUZ-ND	ADC 16-Bit Sigma Delta*	16-TSSOP	6.50	5.20	4.39
AD7797BRUZ-ND	ADC 24-Bit Sigma Delta*	16-TSSOP	7.90	6.32	5.34
AD7798BRUZ-ND	ADC 16-Bit, 3-Channel*	16-TSSOP	8.94	7.16	6.04
AD7799BRUZ-ND	ADC 24-Bit, 3-Channel*	16-TSSOP	8.53	7.68	6.81
EVAL-AD7799EB-ND	Evaluation Board for AD7799	—	120.94	—	—
AD7811YR-ND	ADC 10-Bit, 4-Channel, 2.7V	16-SOIC	8.16	6.53	5.51
AD7811YRU-ND	ADC 10-Bit, 4-Channel, 2.7V	16-TSSOP	8.16	6.53	5.51
AD7811YRUZ-ND	ADC 10-Bit, 4-Channel, 2.7V*	16-TSSOP	7.42	5.94	5.01
AD7811YRZ-ND	ADC 10-Bit, 4-Channel, 2.7V*	16-SOIC	7.42	5.94	5.01
AD7812YRZ-ND	ADC 10-BIt, 8-Channel, 2.7V*	20-SOIC	8.44	6.76	5.70
AD7812YRUZ-ND	ADC 10-Bit, 8-Channel, 2.7V*	20-TSSOP	8.44	6.76	5.70
AD7813YN-ND	ADC 10-Bit Parallel	16-Dip	7.74	6.20	5.23
AD7813YNZ-ND	ADC 10-Bit Parallel*	16-Dip	7.40	5.92	5.00
AD7813YRZ-ND	ADC 10-Bit Parallel*	16-SOIC	7.18	5.75	4.85
AD7817ARZ-ND	ADC 10-Bit, 4-Channel Temperature Sensor*	16-SOIC	8.30	6.64	5.61
AD7819YNZ-ND	ADC 8-Bit Sampling Parallel*	16-Dip	5.68	4.55	3.84
AD7819YRZ-ND	ADC 8-Bit Sampling Parallel*	16-SOIC	5.50	4.40	3.72
AD7820KNZ-ND	ADC 8-Bit LC^{2}MOS Track/Hold High Speed*	20-Dip	13.31	11.99	10.63
AD7821KNZ-ND	ADC 8-Bit LC^{2}MOS Track/Hold High Speed*	20-Dip	15.28	13.76	12.20
AD7822BRZ-ND	ADC 8-Bit 1-Channel, 2Msps*	20-SOIC	8.30	6.64	5.61
AD7822BRZ-REEL7CT-ND	ADC 8-Bit 1-Channel, 2Msps*	20-SOIC	8.30	6.64	5.61
AD7822BRZ-REEL7TR-ND	ADC 8-Bit 1-Channel, 2Msps*	20-SOIC	2158.00/400		
AD7823YN-ND	ADC 8-Bit Serial 2.7/5.5V	8-Dip	6.68	5.35	4.16
AD7823YRZ-ND	ADC 8-Bit Serial 2.7/5.5V*	8-SOIC	5.50	4.40	3.72
AD7824BQ-ND	ADC 8-Bit LC^{2}MOS 4-Channel	24-CDip	28.35	26.46	24.57
AD7824KR-ND	ADC 8-Bit LC^{2}MOS 4-Channel	24-SOIC	17.91	16.13	14.30
AD7824KRZ-ND	ADC 8-Bit LC^{2}MOS 4-Channel*	24-SOIC	17.14	15.44	13.69
AD7825BR-ND	ADC 8-Bit, 4-Channel, 2Msps	24-SOIC	9.58	7.67	6.47
AD7825BRZ-ND	ADC 8-Bit, 4-Channel, 2Msps*	24-SOIC	8.70	6.96	5.88
AD7828KP-ND	ADC 8-Bit LC^{2}MOS 8-Channel	28-PLCC	18.56	17.32	16.09
AD7828KPZ-ND	ADC 8-Bit LC^{2}MOS 8-Channel*	28-PLCC	17.75	16.57	15.38
AD7829BR-ND	ADC 8-Bit, 8-Channel, 2Msps	28-SOIC	8.94	7.16	6.04
AD7829BRZ-ND	ADC 8-Bit, 8-Channel, 2Msps*	28-SOIC	9.46	7.57	6.39
AD7829BRUZ-ND	ADC 8-Bit, 8-Channel, 2Msps*	28-TSSOP	9.46	7.57	6.39
AD7829BRUZ-1-ND	ADC 8-Bit, 8-Channel, 2Msps*	28-TSSOP	9.46	7.57	6.39
AD7829BRWZ-1-ND	ADC 8-Bit, 8-Channel, 2Msps*	28-SOIC	9.46	7.57	6.39
AD7843ARU-ND	ADC 12-Bit Touch Screen Digitizer	16-TSSOP	2.70	2.16	1.68
AD7843ARUZ-ND	ADC 12-Bit Touch Screen Digitizer*	16-TSSOP	2.45	1.97	1.53
AD7854ARSZ-ND	ADC 12-Bit Parallel Low Power*	28-SSOP	16.50	15.40	14.30
AD7854BRZ-ND	ADC 12-Bit Parallel Low Power*	28-SOIC	19.80	18.48	17.16
AD7854LARZ-ND	ADC 12-Bit Parallel Low Power*	28-SOIC	11.66	10.50	9.31
AD7858AN-ND	ADC 12-Bit, 8-Channel Serial	24-Dip	19.29	18.01	16.72
AD7858ARZ-ND	ADC 12-Bit, 8-Channel Serial*	24-SOIC	17.03	15.89	14.76
AD7858BN-ND	ADC 12-Bit, 8-Channel Serial	24-Dip	19.28	17.99	16.71

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD7859APZ-ND	ADC 12-Bit, 8-Channel, 200ksps*	44-PLCC	13.74	12.38	10.98
AD7859ASZ-ND	ADC 12-Bit, 8-Channel, 200ksps*	44-PQFP	13.74	12.38	10.98
AD7859LASZ-ND	ADC 12-Bit, 8-Channel, 200ksps*	44-PQFP	13.16	11.85	10.51
AD7862ARZ-10-ND	ADC 12-Bit Dual 250ksps*	28-SOIC	19.43	18.13	16.84
AD7862ARS-10-ND	ADC 12-Bit Dual 250ksps	28-SSOP	21.38	19.95	18.53
AD7863ARZ-3-ND	ADC 14-Bit Dual 175ksps*	28-SOIC	25.50	23.80	22.10
AD7864ASZ-1-ND	ADC 12-Bit Dual 4-Channel*	44-MQFP	24.00	22.40	20.80
AD7865ASZ-1-ND	ADC 14-Bit Dual 4-Channel*	44-PQFP	25.35	23.66	21.97
AD7866ARUZ-ND	ADC 12-Bit, 2-Channel Dual*	20-TSSOP	11.58	10.43	9.25
AD7866BRUZ-ND	ADC 12-Bit, 2-Channel Dual*	20-TSSOP	13.53	12.18	10.80
EVAL-AD7866CB-ND	Evaluation Board for AD7866	—	140.63	—	—
AD7870JNZ-ND	ADC 12-Bit LC^{2}MOS 100kHz*	24-Dip	33.11	30.90	28.70
AD7870JPZ-ND	ADC 12-Bit LC^{2}MOS 100kHz*	28-PLCC	32.15	30.01	27.86
AD7871JN-ND	ADC 14-Bit Sampling	28-Dip	60.42	56.40	52.37
AD7871JP-ND	ADC 14-Bit Sampling	28-PLCC	58.65	54.74	50.83
AD7871JPZ-ND	ADC 14-Bit Sampling*	28-PLCC	56.10	52.36	48.62
AD7872JNZ-ND	ADC 14-Bit Sampling*	16-Dip	49.53	46.23	42.93
AD7872JRZ-ND	ADC 14-Bit LC^{2}MOS*	16-SOIC	48.08	44.87	41.67
AD7872KN-ND	ADC 14-Bit LC^{2}MOS	16-Dip	61.02	56.96	52.89
AD7872KNZ-ND	ADC 14-Bit LC^{2}MOS*	16-Dip	58.37	54.48	50.59
AD7873ACP-ND	ADC 12-Bit Touch Screen Digitizer	16-LFCSP	3.74	2.99	2.33
AD7873ACPZ-ND	ADC 12-Bit Touch Screen Digitizer*	16-LFCSP	3.40	2.72	2.12
AD7875KNZ-ND	ADC 12-Bit LC^{2}MOS 100kHz*	24-Dip	44.52	41.56	38.59
AD7877ACBZ-REEL7CT-ND	ADC 12-Bit Touch Screen*	25-WLCSP	4.41	3.53	2.75
AD7877ACBZ-REEL7TR-ND	ADC 12-Bit Touch Screen*	25-WLCSP	7408.80/3,000		
EVAL-AD7877EBZ-ND	Evaluation Board for AD7877*	—	150.00	—	—
AD7880BNZ-ND	ADC 12-Bit LC^{2}MOS 5V Low Power*	24-Dip	28.80	26.88	24.96
AD7880BR-ND	ADC 12-Bit LC^{2}MOS 5V Low Power	24-SOIC	29.22	27.28	25.33
AD7885AAPZ-ND	ADC 16-Bit Sampling High Speed*	44-PLCC	77.27	72.12	66.97
AD7888ARZ-ND	ADC 12-Bit, 8-Channel, 125ksps*	16-SOIC	9.20	7.36	6.21
AD7888ARUZ-ND	ADC 12-Bit, 8-Channel, 125ksps*	16-TSSOP	9.20	7.36	6.21
AD7892AR-1-ND	ADC 12-Bit, 500ksps, LC^{2}MOS	24-SOIC	25.88	24.15	22.43
AD7892ARZ-1-ND	ADC 12-Bit, 500ksps, LC^{2}MOS*	24-SOIC	24.75	23.10	21.45
AD7892BNZ-1-ND	ADC 12-Bit, 500ksps, LC^{2}MOS*	24-Dip	30.59	28.55	26.51
AD7892BR-3-ND	ADC 12-Bit, 500ksps, LC^{2}MOS	24-SOIC	31.05	28.98	26.91
AD7892BRZ-1-ND	ADC 12-Bit, 500ksps, LC^{2}MOS*	24-SOIC	29.70	27.72	25.74
AD7893ANZ-2-ND	ADC 12-Bit LC^{2}MOS*	8-Dip	18.69	17.45	16.20
AD7893ARZ-2-ND	ADC 12-Bit LC^{2}MOS*	8-SOIC	18.15	16.94	15.73
AD7893AR-5-ND	ADC 12-Bit LC^{2}MOS	8-SOIC	21.07	18.98	16.83
AD7893ARZ-5-ND	ADC 12-Bit LC^{2}MOS*	8-SOIC	20.16	18.15	16.10
AD7893ARZ-10-ND	ADC 12-Bit LC^{2}MOS*	8-SOIC	18.15	16.94	15.73
AD7893BR-10-ND	ADC 12-Bit LC^{2}MOS	8-SOIC	24.59	22.95	21.31
AD7894ARZ-3-ND	ADC 14-Bit Serial Track/Hold Low Power*	8-SOIC	15.58	14.03	12.44
AD7894BRZ-10-ND	ADC 14-Bit Serial Track/Hold Low Power*	8-SOIC	18.53	17.29	16.06
AD7895ARZ-3-ND	ADC 12-Bit Serial 5V*	8-SOIC	9.75	8.78	7.79
AD7895ARZ-10-ND	ADC 12-Bit Serial 5V*	8-SOIC	9.75	8.78	7.79
AD7896BRZ-ND	ADC 12-Bit Serial Track/Hold High Speed*	8-SOIC	17.09	15.95	14.81
AD7899ARSZ-1-ND	ADC 14-Bit, 400ksps, 5V*	28-SSOP	17.48	16.31	15.15
AD7899ARSZ-2-ND	ADC 14-Bit, 400ksps, 5V*	28-SSOP	17.48	16.31	15.15
AD7904BRU-ND	ADC 8-Bit, 4-Channel, 1Msps	16-TSSOP	4.50	3.60	2.80
AD7904BRUZ-ND	ADC 8-Bit, 4-Channel, 1Msps*	16-TSSOP	4.10	3.28	2.55
AD7908BRUZ-ND	ADC 8-Bit, 8-Channel, 1Msps*	20-TSSOP	4.91	3.93	3.06
AD7911ARMZ-ND	ADC 10-Bit, 2-Channel, 250ksps*	8-MSOP	5.29	4.23	3.29
AD7911ARMZREEL7TR-ND	ADC 10-Bit, 2-Channel, 250ksps*	8-MSOP	2996.25/1,000		
EVAL-AD7912CB-ND	Evaluation Board for AD7912	—	140.63	—	—
AD7914BRU-ND	ADC 10-Bit, 4-Channel, 1Msps	16-TSSOP	7.76	6.21	5.24
AD7914BRUZ-ND	ADC 10-Bit, 4-Channel, 1Msps*	16-TSSOP	7.06	5.65	4.77
AD7918BRUZ-ND	ADC 10-Bit, 8-Channel, 1Msps*	20-TSSOP	7.64	6.12	5.16
AD7920BRMZ-ND	ADC 12-Bit, 250ksps*	8-MSOP	6.02	4.82	4.07
AD7921ARM-REEL7TR-ND	ADC 12-Bit, 250ksps, 2-Channel	8-MSOP	3495.00/1,000		
AD7921ARMZ-ND	ADC 12-Bit, 250ksps, 2-Channel*	8-MSOP	5.42	4.34	3.66
AD7922ARMZ-ND	ADC 12-Bit, 1Msps, 2-Channel*	8-MSOP	8.33	7.50	6.65
AD7923BRUZ-ND	ADC 12-Bit, 4-Channel, 200ksps*	16-TSSOP	6.00	4.80	4.05
AD7924BRUZ-ND	ADC 12-Bit, 4-Channel, 1Msps*	16-TSSOP	8.81	7.94	7.04
AD7927BRUZ-ND	ADC 12-Bit, 8-Channel, 200ksps*	20-TSSOP	6.58	5.27	4.45
AD7928BRUZ-ND	ADC 12-Bit, 8-Channel, 1Msps*	20-TSSOP	9.31	8.39	7.44
AD7933BRUZ-ND	ADC 10-Bit, 4-Channel, 1.5Msps*	28-TSSOP	8.24	6.60	5.57
AD7940BRJZ-REEL7CT-ND	ADC 14-Bit, 100ksps, Unipolar*	SOT-23	8.20	6.56	5.54
AD7940BRJZ-REEL7TR-ND	ADC 14-Bit, 100ksps, Unipolar*	SOT-23	15252.00/3,000		
AD7940BRM-ND	ADC 14-Bit, 100ksps, Unipolar	8-MSOP	9.64	7.72	6.51
AD7940BRM-REEL7TR-ND	ADC 14-Bit, 100ksps, Unipolar	8-MSOP	6025.00/1,000		
AD7942BCPZRL7CT-ND	ADC 14-Bit, 250ksps PulSAR®*	10-LFCSP	9.50	7.60	6.42
AD7942BRMZ-ND	ADC 14-Bit, 250ksps PulSAR®*	10-MSOP	9.31	8.39	7.44
AD7946BRMZ-ND	ADC 14-Bit, 500ksps PulSAR®*	10-MSOP	13.58	12.23	10.84
AD7951BCPZ-ND	ADC 14-Bit, 1Msps PulSAR®*	48-LFCSP	18.24	17.03	15.81
AD7951BSTZ-ND	ADC 14-Bit, 1Msps PulSAR®*	48-LQFP	18.24	17.03	15.81
AD7952BSTZ-ND	ADC 14-Bit, 1Msps, Diff. Prog. Input PulSAR®*	48-LQFP	18.24	17.03	15.81
AD7980ARMZRL7CT-ND	ADC 16-Bit, 1Msps PulSAR®*	10-MSOP	19.83	18.51	17.19
AD7980ARMZRL7TR-ND	ADC 16-Bit, 1Msps PulSAR®*	10-MSOP	16326.70/1,000		
AD7980BRMZ-ND	ADC 16-Bit, 1Msps PulSAR®*	10-MSOP	26.46	24.70	22.94
AD7982BRMZ-ND	ADC 18-Bit, 1Msps PulSAR®*	10-MSOP	38.16	35.62	33.08
AD7983BRMZ-ND	ADC 16-Bit, 1.33Msps PulSAR®* ***NEW!***	10-MSOP	33.11	30.90	28.70
AD7984BRMZ-ND	ADC 18-Bit, 1.33Msps PulSAR®*	10-MSOP	46.38	43.29	40.20
AD7991YRJZ-0500RL7CT-ND	ADC 12-Bit, 4-Channel, I^{2}C* ***NEW!***	SOT-23-8	7.48	5.99	5.05
AD7991YRJZ-0500RL7TR-ND	ADC 12-Bit, 4-Channel, I^{2}C* ***NEW!***	SOT-23-8	2374.90/500		
AD7991YRJZ-1500RL7CT-ND	ADC 12-Bit, 4-Channel, I^{2}C* ***NEW!***	SOT-23-8	7.48	5.99	5.05
AD7991YRJZ-1500RL7TR-ND	ADC 12-Bit, 4-Channel, I^{2}C* ***NEW!***	SOT-23-8	2374.90/500		
EVAL-AD7991EBZ-ND	Evaluation Board for AD7991* ***NEW!***	—	129.00	—	—
AD7995YRJZ-0500RL7CT-ND	ADC 10-Bit, 4-Channel, I^{2}C* ***NEW!***	SOT-23-8	5.30	4.24	3.58
AD7995YRJZ-0500RL7TR-ND	ADC 10-Bit, 4-Channel, I^{2}C* ***NEW!***	SOT-23-8	1682.75/500		
AD7995YRJZ-1500RL7CT-ND	ADC 10-Bit, 4-Channel, I^{2}C* ***NEW!***	SOT-23-8	5.30	4.24	3.58
AD7995YRJZ-1500RL7TR-ND	ADC 10-Bit, 4-Channel, I^{2}C* ***NEW!***	SOT-23-8	1682.75/500		
AD7992BRMZ-1-ND	ADC 12-Bit, 2-Channel, I^{2}C*	10-MSOP	7.06	5.65	4.77
AD7993BRUZ-0-ND	ADC 10-Bit, 4-Channel, I^{2}C*	16-TSSOP	5.00	4.00	3.11
AD7998BRUZ-1-ND	ADC 12-Bit, 8-Channel, I^{2}C*	20-TSSOP	8.82	7.06	5.96
AD7999YRJZ-1500RL7CT-ND	ADC 8-Bit, 8-Channel, I^{2}C* ***NEW!***	SOT-23-8	4.10	3.28	2.55
AD7999YRJZ-1500RL7TR-ND	ADC 8-Bit, 8-Channel, I^{2}C* ***NEW!***	SOT-23-8	1183.00/500		
AD9042ASTZ-ND	ADC 12-Bit, 41Msps*	44-TQFP	44.28	41.33	38.38
AD9051BRS-2V-ND	ADC 10-Bit, 60Msps	28-SSOP	14.09	12.69	11.26
AD9054ABSTZ-135-ND	ADC 8-Bit, 135Msps*	44-LQFP	32.30	30.15	27.99
AD9054ABSTZ-200-ND	ADC 8-Bit, 200Msps*	44-LQFP	36.98	34.51	32.05
AD9200ARSZ-ND	ADC CMOS 10-Bit, 20Msps*	28-SSOP	5.88	4.71	3.97
AD9200JRSZ-ND	ADC CMOS 10-Bit, 20Msps*	28-SSOP	5.88	4.71	3.97
AD9200SSOP-EVAL-ND	Evaluation Board for AD9200	—	200.00	—	—
AD9201ARSZ-ND	ADC CMOS 10-Bit 2-Channel*	28-SSOP	9.71	8.75	7.76

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD9203ARUZ-ND	ADC 10-Bit, 40Msps, 3V*	28-TSSOP	8.82	7.06	5.96
AD9212-65EBZ-ND	Evaluation Board for AD9212-65*	—	215.00	—	—
AD9212BCPZ-40-ND	ADC 10-Bit, 40Msps, 1.8V*	64-LFCSP	49.38	46.09	42.80
AD9212BCPZ-65-ND	ADC 10-Bit, 65Msps, 1.8V*	64-LFCSP	56.45	52.69	48.92
AD9214BRSZ-65-ND	ADC 10-Bit, 65Msps, 1.8V*	28-SSOP	12.25	11.03	9.78
AD9214BRSZ-105-ND	ADC 10-Bit, 105Msps, 3V*	28-SSOP	17.84	16.65	15.46
AD9215BRUZ-105-ND	ADC 10-Bit, 105Msps, 3V*	28-TSSOP	13.71	12.35	10.95
AD9216BCPZ-65-ND	ADC Dual 10-Bit, 65Msps*	64-LFCSP	14.69	13.23	11.74
AD9218BSTZ-40-ND	ADC 10-Bit, 40Msps Dual*	48-LQFP	15.87	14.82	13.76
AD9218BST-65-ND	ADC 10-Bit, 65Msps Dual	48-LQFP	21.57	20.14	18.70
AD9218BSTZ-65-ND	ADC 10-Bit, 65Msps Dual*	48-LQFP	19.61	18.30	17.00
AD9218BST-80-ND	ADC 10-Bit, 80Msps Dual	48-LQFP	24.51	22.88	21.25
AD9219-65EBZ-ND	Evaluation Board for AD9219-65*	—	215.00	—	—
AD9219BCPZ-40-ND	ADC 10-Bit, 40Msps, 1.8V*	48-LFCSP	24.69	23.05	21.40
AD9219BCPZ-65-ND	ADC 10-Bit, 65Msps, 1.8V*	48-LFCSP	28.22	26.34	24.46
AD9220ARZ-ND	ADC 12-Bit, 10Msps*	28-SOIC	11.86	10.68	9.47
AD9220ARSZ-ND	ADC 12-Bit, 10Msps*	28-SSOP	11.86	10.68	9.47
AD9222BCPZ-40-ND	ADC 12-Bit, 40Msps, Octal*	64-LFCSP	70.56	65.86	61.16
AD9222-65EBZ-ND	Evaluation Board for AD9222*	—	215.00	—	—
AD9223ARSZ-ND	ADC 12-Bit, 3Msps*	28-SSOP	14.99	13.50	11.97
AD9224ARSZ-ND	ADC 12-Bit, 40Msps*	28-SSOP	21.26	19.84	18.43
AD9225ARZ-ND	ADC 12-Bit, 25Msps*	28-SOIC	25.23	23.55	21.87
AD9225ARSZ-ND	ADC 12-Bit, 25Msps*	28-SSOP	25.23	23.55	21.87
AD9226ARSZ-ND	ADC 12-Bit, 65Msps*	28-SSOP	31.88	29.75	27.63
AD9226ASTZ-ND	ADC 12-Bit, 65Msps*	48-LQFP	31.88	29.75	27.63
AD9228-65EBZ-ND	Evaluation Board for AD9228-65*	—	215.00	—	—
AD9228BCPZ-40-ND	ADC 12-Bit, 40Msps Quad*	48-LFCSP	35.28	32.93	30.58
AD9228BCPZ-65-ND	ADC 12-Bit, 65Msps Quad*	48-LFCSP	48.33	45.11	41.89
AD9230-250EBZ-ND	Evaluation Board for AD9230-250*	—	215.00	—	—
AD9230BCPZ-170-ND	ADC 12-Bit, 170Msps, 1.8V*	56-LFCSP	61.77	57.66	53.54
AD9233-125EBZ-ND	Evaluation Board for AD9233*	—	215.00	—	—
AD9233BCPZ-80-ND	ADC 12-Bit, 80Msps, 1.8V*	48-LFCSP	29.48	27.51	25.55
AD9233BCPZ-125-ND	ADC 12-Bit, 125Msps, 1.8V*	48-LFCSP	47.57	44.40	41.23
AD9235BCPZ-65-ND	ADC 12-Bit, 65Msps*	32-LFCSP	21.18	19.77	18.36
AD9235-65PCB-ND	Evaluation Board for AD9235-65	—	200.00	—	—
AD9235BRUZ-20-ND	ADC 12-Bit, 20Msps*	28-TSSOP	13.73	12.36	10.96
AD9235BRUZ-40-ND	ADC 12-Bit, 40Msps*	28-TSSOP	15.49	13.95	12.37
AD9235BRUZ-65-ND	ADC 12-Bit, 65Msps*	28-TSSOP	21.18	19.77	18.36
AD9236BCPZ-80-ND	ADC 12-Bit, 80Msps, 3V*	32-LFCSP	29.13	27.19	25.25
AD9238BSTZ-20-ND	ADC 12-Bit Dual 20Msps*	64-LQFP	19.43	18.13	16.84
AD9238BSTZ-40-ND	ADC 12-Bit Dual 40Msps*	64-LQFP	21.18	19.77	18.36
AD9238BSTZ-65-ND	ADC 12-Bit Dual 65Msps*	64-LQFP	31.77	29.66	27.54
AD9240ASZ-ND	ADC 14-Bit, 10Msps*	44-MQFP	32.03	29.89	27.76
AD9241ASZ-ND	ADC 14-Bit, 1.25Msps*	44-MQFP	16.50	15.40	14.30
AD9243ASZ-ND	ADC 14-Bit, 3Msps*	44-MQFP	20.39	19.03	17.67
AD9244BSTZ-40-ND	ADC 14-Bit, 40Msps*	48-LQFP	32.90	30.71	28.51
AD9244BSTZ-65-ND	ADC 14-Bit, 65Msps*	48-LQFP	43.85	40.93	38.00
AD9245BCPZ-80-ND	ADC 14-Bit, 80Msps, 3V*	32-LFCSP	54.71	51.06	47.42
AD9246BCPZ-80-ND	ADC 14-Bit, 80Msps, 1.8V*	48-LFCSP	44.12	41.18	38.24
AD9246BCPZ-125-ND	ADC 14-Bit, 125Msps, 1.8V*	48-LFCSP	85.59	79.89	74.18
AD9248BSTZ-20-ND	ADC 14-Bit, 20Msps, Dual*	64-LQFP	33.09	30.89	28.68
AD9248BSTZ-40-ND	ADC 14-Bit, 40Msps, Dual*	64-LQFP	41.91	39.12	36.33
AD9248BSTZ-65-ND	ADC 14-Bit, 65Msps, Dual*	64-LQFP	52.07	48.60	45.13
AD9252BCPZ-50-ND	ADC 14-Bit, 50Msps, Octal*	64-LFCSP	95.25	88.90	82.55
AD9254-150EBZ-ND	Evaluation Board for AD9254*	—	215.00	—	—
AD9254BCPZ-150-ND	ADC 14-Bit, 150Msps, 1.8V*	48-LFCSP	97.05	90.58	84.11
AD9259-50EBZ-ND	Evaluation Board for AD9259*	—	215.00	—	—
AD9259BCPZ-50-ND	ADC 14-Bit, 50Msps, Quad*	48-LFCSP	79.37	74.08	68.79
AD9260ASZ-ND	ADC CMOS 16-Bit Oversampled*	44-MQFP	77.48	72.31	67.15
AD9271-50EBZ-ND	Evaluation Board for AD9271*	—	215.00	—	—
AD9271BSVZ-50-ND	Octal LNA/VGA/AAF/ADC and Crosspoint Switch*	100-TQFP	127.07	118.60	110.13
AD9280ARSZ-ND	ADC CMOS 8-Bit, 32Msps*	28-SSOP	5.09	4.07	3.17
AD9281ARSZ-ND	ADC 8-Bit Dual CMOS*	28-SSOP	8.14	6.52	5.50
AD9283BRSZ-50-ND	ADC 8-Bit, 50Msps, 3V*	20-SSOP	5.88	4.71	3.97
AD9283BRSZ-100-ND	ADC 8-Bit, 100Msps, 3V*	20-SSOP	10.78	9.71	8.61
AD9287-100EBZ-ND	Evaluation Board for AD9287*	—	215.00	—	—
AD9287BCPZRL7-100CT-ND	ADC 8-Bit Quad 100Msps*	48-LFCSP	24.69	23.05	21.40
AD9287BCPZRL7-100TR-ND	ADC 8-Bit Quad 100Msps*	48-LFCSP	15431.25/750		
AD9288BSTZ-100-ND	ADC 8-Bit Dual 100Msps*	48-LQFP	18.53	17.29	16.06
AD9411BSV-170-ND	ADC 10-Bit, 170Msps, 3.3V	100-TQFP	69.81	65.16	60.51
AD9411BSV-200-ND	ADC 10-Bit, 200Msps, 3.3V	100-TQFP	81.51	76.08	70.65
AD9430BSVZ-170-ND	ADC 12-Bit, 170Msps, 3.3V*	100-TQFP	69.74	65.09	60.44
AD9430BSVZ-210-ND	ADC 12-Bit, 210Msps, 3.3V*	100-TQFP	97.10	90.63	84.15
AD9432BSQZ-105-ND	ADC 12-Bit, 105Msps*	52-LQFP	57.29	53.47	49.65
AD9432BSTZ-80-ND	ADC 12-Bit, 80Msps*	52-LQFP	46.13	43.05	39.98
AD9432BSTZ-105-ND	ADC 12-Bit, 105Msps*	52-LQFP	57.29	53.47	49.65
AD9432/PCB-ND	Evaluation Board for AD9432	—	225.00	—	—
AD9433BSQZ-105-ND	ADC 12-Bit, 105Msps IF Sampling*	52-LQFP	57.29	53.47	49.65
AD9433BSQZ-125-ND	ADC 12-Bit, 125Msps IF Sampling*	52-LQFP	60.20	56.19	52.17
AD9460BSVZ-80-ND	ADC 16-Bit, 80Msps*	100-TQFP	85.29	79.61	73.92
AD9460-80LVDS/PCB-ND	Evaluation Board for AD9460-80*	—	215.00	—	—
AD9460BSVZ-105-ND	ADC 16-Bit, 105Msps*	100-TQFP	100.01	93.34	86.68
AD9461BSVZ-ND	ADC 16-Bit, 130Msps IF Sampling*	100-TQFP	114.71	107.06	99.42
AD9481BSUZ-250-ND	ADC 8-Bit, 250Msps, 3.3V*	44-TQFP	28.23	26.35	24.47
AD9600BCPZ-105-ND	ADC Dual 10-Bit, 105Msps, 1.8V*	64-LFCSP	19.88	18.55	17.23
AD9627-150EBZ-ND	Evaluation Board for AD9627-150*	—	215.00	—	—
AD9627BCPZ-80-ND	ADC Dual 12-Bit, 80Msps,1.8V*	64-LFCSP	44.21	41.26	38.32
AD9640-150EBZ-ND	Evaluation Board for AD9640*	—	215.00	—	—
AD9640BCPZ-80-ND	ADC 14-Bit, 80Msps, 1.8V*	64-LFCSP	66.18	61.77	57.36
AD9640BCPZ-150-ND	ADC 14-Bit, 150Msps, 1.8V*	64-LFCSP	154.41	144.12	133.83
AD9823KRUZ-ND	Correlated Double Sampler*	14-TSSOP	5.96	4.77	4.03
ADA4922-1ARDZ-ND	ADC 18-Bit Differential Driver*	8-SOIC	7.76	6.21	5.24
ADA4937-1YCPZ-R7CT-ND	ADC Differential Driver*	16-LFCSP	7.58	6.07	5.12
ADA4937-1YCPZ-R7TR-ND	ADC Differential Driver*	16-LFCSP	7106.25/1,500		
ADADC71JD-ND	ADC 16-Bit High Resolution	32-CDip	378.44	353.21	327.98
ADADC80-12-ND	ADC 12-Bit, Integrated	32-CDip	155.64	145.27	134.89
HSC-ADC-EVALB-DCZ-ND	HS ADC FIFO Evaluation Kit*	—	537.50	—	—
HSC-ADC-EVALB-SCZ-ND	HS ADC USB FIFO Evaluation Kit*	—	537.50	—	—
HSC-ADC-EVALCZ-ND	HS ADC USB FIFO Evaluation Kit*	—	645.00	—	—

***** *RoHS Compliant*

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Capacitance-to-Digital Converters

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7142ACPZ-1REELCT-ND	Programmable CDC with Environmental Compensation*	32-LFCSP	3.04	2.43	1.89
AD7142ACPZ-1REELTR-ND	Programmable CDC with Environmental Compensation*	32-LFCSP	8437.50/5,000		
AD7142ACPZ-REELCT-ND	Programmable CDC with Environmental Compensation*	32-LFCSP	3.04	2.43	1.89
AD7142ACPZ-REELTR-ND	Programmable CDC with Environmental Compensation*	32-LFCSP	8437.50/5,000		
AD7143ACPZ-1500RL7CT-ND	Programmable Controller for Capacitance Touch Sensor*	16-LFCSP	2.79	2.24	1.74
AD7143ACPZ-1500RL7TR-ND	Programmable Controller for Capacitance Touch Sensor*	16-LFCSP	806.00/500		
EVAL-AD7143-1EBZ-ND	Evaluation Board for AD7143-1*	—	175.00	—	—
AD7147ACPZ-500RL7CT-ND	CapTouch™ Prog. Controller for Single-Electrode Cap. Sensor*	24-LFCSP	2.93	2.34	1.82
AD7147ACPZ-500RL7TR-ND	CapTouch™ Prog. Controller for Single-Electrode Cap. Sensor*	24-LFCSP	845.00/500		
AD7147ACPZ-1500RL7CT-ND	CapTouch™ Prog. Controller for Single-Electrode Cap. Sensor*	24-LFCSP	2.93	2.34	1.82
AD7147ACPZ-1500RL7TR-ND	CapTouch™ Prog. Controller for Single-Electrode Cap. Sensor*	24-LFCSP	845.00/500		
EVAL-AD7147-1EBZ-ND	Evaluation Board for AD7147ACPZ-1* ***NEW!***	—	175.00	—	—
EVAL-AD7147EBZ-ND	Evaluation Board for AD7147ACPZ* ***NEW!***	—	175.00	—	—
AD7148ACPZ-1500RL7CT-ND	Programmable Controller for Single-Electrode Cap. Sensor* ***NEW!***	16-LFCSP	2.70	2.16	1.68
AD7148ACPZ-1500RL7TR-ND	Programmable Controller for Single-Electrode Cap. Sensor* ***NEW!***	16-LFCSP	780.00/500		
AD7150BRMZ-ND	Ultra-Low Power, 2-Ch. Capacitance Converter for Proximity Sensing* ***NEW!***	10-MSOP	3.60	2.88	2.24
EVAL-AD7150EBZ-ND	Evaluation Board for AD7150* ***NEW!***	—	65.16	—	—
AD7151BRMZ-ND	Ultra-Low Power, 1-Ch. Capacitance Converter for Proximity Sensing* ***NEW!***	10-MSOP	3.60	2.88	2.24
AD7745ARUZ-ND	24-Bit Capacitance-to-Digital Converter with Temperature Sensor*	16-TSSOP	9.00	8.10	7.19
AD7746ARUZ-ND	24-Bit Capacitance-to-Digital Converter with Temperature Sensor*	16-TSSOP	9.75	8.78	7.79
EVAL-AD7746EBZ-ND	Evaluation Board for AD7746*	—	150.00	—	—
AD7747ARUZ-ND	24-Bit Capacitance-to-Digital Converter with Temperature Sensor*	16-TSSOP	9.00	8.10	7.19
EVAL-AD7747EBZ-ND	Evaluation Board for AD7747*	—	129.00	—	—

Digital-to-Analog

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD390SD-ND	DAC Quad 12-Bit	28-CDip	680.91	635.52	590.13
AD390TD-ND	DAC Quad 12-Bit	28-CDip	798.21	745.00	691.79
AD420ANZ-32-ND	DAC Serial 16-Bit*	24-Dip	19.55	18.25	16.94
AD420ARZ-32-ND	DAC Serial 16-Bit*	24-SOIC	18.98	17.71	16.45
AD421BNZ-ND	DAC Serial 16-Bit*	16-Dip	13.64	12.29	10.90
AD421BRZ-ND	DAC Serial 16-Bit*	16-SOIC	13.24	11.93	10.58
AD557JN-ND	DAC 8-Bit Voltage Out	16-Dip	10.06	8.05	6.80
AD557JNZ-ND	DAC 8-Bit Voltage Out*	16-Dip	9.64	7.72	6.51
AD557JPZ-ND	DAC 8-Bit Voltage Out*	20-PLCC	9.64	7.72	6.51
AD558JNZ-ND	DAC 8-Bit Voltage Out*	16-Dip	12.91	11.63	10.31
AD558KNZ-ND	DAC 8-Bit Voltage Out*	16-Dip	17.61	16.44	15.27
AD558KPZ-ND	DAC 8-Bit Voltage Out*	20-PLCC	17.61	16.44	15.27
AD558SD-ND	DAC 8-Bit Voltage Out	16-CDip	34.23	31.95	29.67
AD569AD-ND	DAC 16-Bit Mono	28-CDip	70.07	65.40	60.73
AD569JNZ-ND	DAC 16-Bit Mono*	28-Dip	41.28	38.53	35.78
AD569JPZ-ND	DAC 16-Bit Mono*	28-PLCC	45.18	42.17	39.16
AD569KPZ-ND	DAC 16-Bit Mono*	28-PLCC	57.17	53.36	49.55
AD660ANZ-ND	DAC 16-Bit Mono with Voltage Reference*	24-Dip	25.73	24.01	22.30
AD660ARZ-ND	DAC 16-Bit Mono with Voltage Reference*	24-SOIC	24.98	23.31	21.65
AD660BN-ND	DAC 16-Bit Mono with Voltage Reference	24-Dip	40.34	37.65	34.96
AD660BRZ-ND	DAC 16-Bit Mono with Voltage Reference*	24-SOIC	37.46	34.96	32.47
AD664JN-BIP-ND	DAC 12-Bit Quad Bipolar	28-Dip	81.84	76.39	70.93
AD664JNZ-BIP-ND	DAC 12-Bit Quad Bipolar*	28-Dip	78.27	73.06	67.84
AD664JP-ND	DAC 12-Bit Quad Mono	44-PLCC	90.66	84.62	78.58
AD667JNZ-ND	DAC 12-Bit Voltage Out*	28-Dip	17.67	16.50	15.32
AD667JP-ND	DAC 12-Bit Voltage Out	28-PLCC	17.67	16.50	15.32
AD669ANZ-ND	DAC 16-Bit Mono with Voltage Reference*	28-Dip	25.73	24.01	22.30
AD669BNZ-ND	DAC 16-Bit Mono with Voltage Reference*	28-Dip	38.58	36.01	33.44
AD760AQ-ND	DAC 16-Bit with Amp Serial	28-CDip	123.39	115.17	106.94
AD766ANZ-ND	DAC 16-Bit DSP*	16-Dip	27.20	25.39	23.57
AD766JN-ND	DAC 16-Bit DSP	16-Dip	21.56	20.12	18.69
AD766JNZ-ND	DAC 16-Bit DSP*	16-Dip	20.61	19.24	17.87
AD767AD-ND	DAC 12-Bit	24-CDip	27.65	25.81	23.96
AD767JN-ND	DAC 12-Bit	24-Dip	18.96	17.70	16.44
AD767JNZ-ND	DAC 12-Bit*	24-Dip	18.14	16.93	15.72
AD767JP-ND	DAC 12-Bit	28-PLCC	17.61	16.44	15.27
AD767JPZ-ND	DAC 12-Bit* ***NEW!***	28-PLCC	17.61	16.44	15.27
AD767KN-ND	DAC 12-Bit	24-Dip	25.01	23.34	21.68
AD767KNZ-ND	DAC 12-Bit*	24-Dip	23.91	22.32	20.73
AD768ARZ-ND	DAC 16-Bit, 30Msps*	28-SOIC	42.41	39.58	36.76
AD1139K-ND	DAC Single 18-Bit	32-Dip	1190.33	1110.97	1031.62
AD1833ACST-ND	DAC Audio 24-Bit, 6-Channel	48-LQFP	9.58	7.67	6.47
AD1851NZ-ND	DAC Audio 16-Bit PCM*	16-Dip	10.00	9.00	7.98
AD1851RZ-ND	DAC Audio 16-Bit PCM*	16-SOIC	10.00	9.00	7.98
AD1852JRSZ-ND	DAC Stereo 24-Bit*	28-SSOP	11.46	10.32	9.16
AD1853JRSZ-ND	DAC Stereo 24-Bit*	28-SSOP	12.89	11.61	10.30
AD1866N-ND	DAC Audio 16-Bit Dual	16-Dip	18.21	16.40	14.54
AD1866R-ND	DAC Audio 16-Bit Dual	16-SOIC	18.21	16.40	14.54
AD1868N-ND	DAC Audio 18-Bit Dual	16-Dip	16.62	15.52	14.41
AD1934YSTZ-ND	DAC 8-Channel with PLL, 192kHz, 24-Bit*	48-LQFP	6.88	5.51	4.65
AD1954YST-ND	DAC Audio 3-Channel, 26-Bit	48-LQFP	14.31	12.89	11.43
AD1955ARSZ-ND	DAC Audio Multi-Bit*	28-SSOP	12.50	11.25	9.98
AD5040BRJZ-REEL7CT-ND	DAC 14-Bit, 2.7V-5.5V SPI*	SOT-23-8	9.91	8.93	7.92
AD5040BRJZ-REEL7TR-ND	DAC 14-Bit, 2.7V-5.5V SPI*	SOT-23-8	21687.75/3,000		
AD5060ARJZ-1REEL7CT-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	9.91	8.93	7.92
AD5060ARJZ-1REEL7TR-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	21687.75/3,000		
AD5060ARJZ-2REEL7CT-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	9.91	8.93	7.92
AD5060ARJZ-2REEL7TR-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	21687.75/3,000		
AD5060BRJZ-1REEL7CT-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	12.50	11.25	9.98
AD5060BRJZ-1REEL7TR-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	27337.50/3,000		
AD5060BRJZ-2REEL7CT-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	12.50	11.25	9.98
AD5060BRJZ-2REEL7TR-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	27337.50/3,000		
AD5060YRJZ-1REEL7CT-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	12.74	11.48	10.18
AD5060YRJZ-1REEL7TR-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	27884.25/3,000		
AD5061BRJZ-2REEL7CT-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	6.70	5.36	4.53
AD5061BRJZ-2REEL7TR-ND	DAC 16-Bit, 2.7V-5.5V SPI*	SOT-23-8	12462.00/3,000		
AD5063BRMZ-ND	*nano*DAC® 16-Bit, 2.7V-5.5V SPI*	10-MSOP	13.21	11.90	10.55
AD5300BRMZ-ND	DAC 8-Bit Rail-to-Rail 2.7V-5.5V*	8-MSOP	3.42	2.74	2.13
AD5300BRTZREEL7CT-ND	DAC 8-Bit Rail-to-Rail 2.7V-5.5V*	SOT-23-6	2.81	2.25	1.75
AD5300BRTZREEL7TR-ND	DAC 8-Bit Rail-to-Rail 2.7V-5.5V*	SOT-23-6	4725.00/3,000		
AD5301BRM-ND	DAC 8-Bit, 2.5V, 2-Wire	8-MSOP	4.23	3.39	2.64
AD5301BRMZ-ND	DAC 8-Bit, 2.5V, 2-Wire*	8-MSOP	3.85	3.08	2.40
AD5301BRTZ500RLCT-ND	DAC 8-Bit, 2.5V, 2-Wire*	SOT-23-6	3.15	2.52	1.96
AD5301BRTZ500RLTR-ND	DAC 8-Bit, 2.5V, 2-Wire*	SOT-23-6	910.00/500		
AD5302ARMZ-ND	DAC 8-Bit Dual Rail-to-Rail, 2.5V-5.5V*	10-MSOP	2.95	2.36	1.84
AD5302BRM-REEL7CT-ND	DAC 8-Bit Dual Rail-to-Rail, 2.5V-5.5V	10-MSOP	5.90	4.72	3.67
AD5302BRM-REEL7TR-ND	DAC 8-Bit Dual Rail-to-Rail, 2.5V-5.5V	10-MSOP	3340.50/1,000		
AD5302BRMZ-ND	DAC 8-Bit Dual Rail-to-Rail, 2.5V-5.5V*	10-MSOP	5.36	4.29	3.34
AD5304BRMZ-ND	DAC 8-Bit Quad Voltage Out*	10-MSOP	7.20	5.76	4.86
AD5305ARMZ-ND	DAC 8-Bit Quad Voltage Out, 2-Wire Interface, 2.5V-5.5V*	10-MSOP	5.22	4.18	3.25
AD5305BRMZ-ND	DAC 8-Bit Quad Voltage Out, 2-Wire Interface, 2.5V-5.5V*	10-MSOP	7.20	5.76	4.86
AD5306ARUZ-ND	DAC 8-Bit Quad Voltage Out, 2-Wire Interface, 2.5V-5.5V*	16-TSSOP	5.24	4.20	3.54
AD5306BRUZ-ND	DAC 8-Bit Quad Voltage Out, 2-Wire Interface, 2.5V-5.5V*	16-TSSOP	7.68	6.15	5.19
AD5308ARUZ-ND	DAC 8-Bit, 2.5V Octal*	16-TSSOP	6.04	4.84	4.08
AD5308BRU-ND	DAC 8-Bit, 2.5V Octal	16-TSSOP	10.84	8.68	7.32
AD5308BRUZ-ND	DAC 8-Bit, 2.5V Octal*	16-TSSOP	9.86	7.89	6.66
AD5310BRMZ-ND	DAC 10-Bit Rail-to-Rail with Buffer*	8-MSOP	4.66	3.73	2.90
AD5310BRT-REELCT-ND	DAC 10-Bit Rail-to-Rail with Buffer	SOT-23-6	4.21	3.37	2.62
AD5310BRTZ-REELCT-ND	DAC 10-Bit Rail-to-Rail with Buffer*	SOT-23-6	3.83	3.06	2.38
AD5310BRTZ-REELTR-ND	DAC 10-Bit Rail-to-Rail with Buffer*	SOT-23-6	20825.00/10,000		
AD5311BRMZ-ND	DAC 10-Bit, 2-Wire with Buffer*	8-MSOP	5.36	4.29	3.34
AD5311BRTZ-REEL7CT-ND	DAC 10-Bit, 2-Wire with Buffer*	SOT-23-6	4.39	3.51	2.73
AD5311BRTZ-REEL7TR-ND	DAC 10-Bit, 2-Wire with Buffer*	SOT-23-6	7371.00/3,000		
AD5312ARMZ-ND	DAC 10-Bit Dual Rail-to-Rail Out*	10-MSOP	4.95	3.96	3.08
AD5312BRMZ-ND	DAC 10-Bit Dual Rail-to-Rail Out*	10-MSOP	5.86	4.69	3.96
AD5313ARUZ-ND	DAC 10-Bit Dual Rail-to-Rail Voltage Out, 2.5V to 5.5V*	16-TSSOP	5.36	4.29	3.34
AD5314ARMZ-ND	DAC 10-Bit Quad Voltage Out, 2.5V to 5.5V*	10-MSOP	6.34	5.08	4.28
AD5314BRMZ-ND	DAC 10-Bit Quad Voltage Out, 2.5V to 5.5V*	10-MSOP	8.66	6.93	5.85
AD5315ARMZ-REEL7CT-ND	DAC 10-Bit, 2-Wire Interface, Quad Voltage Out, 2.5V to 5.5V*	10-MSOP	6.46	5.17	4.37
AD5315ARMZ-REEL7TR-ND	DAC 10-Bit, 2-Wire Interface, Quad Voltage Out, 2.5V to 5.5V*	10-MSOP	4037.50/1,000		
AD5315BRMZ-ND	DAC 10-Bit, 2-Wire Interface, Quad Voltage Out, 2.5V to 5.5V*	10-MSOP	8.66	6.93	5.85
AD5316BRUZ-ND	DAC 10-Bit Quad with Buffer*	16-TSSOP	9.14	7.32	6.17
AD5317ARUZ-ND	DAC 10-Bit Quad with Buffer*	16-TSSOP	6.64	5.32	4.49
AD5317BRUZ-ND	DAC 10-Bit Quad with Buffer*	16-TSSOP	9.14	7.32	6.17
AD5317BRUZREEL7CT-ND	DAC 10-Bit Quad with Buffer*	16-TSSOP	9.14	7.32	6.17
AD5318ARUZ-ND	DAC 10-Bit, 2.5V Octal*	16-TSSOP	9.52	7.62	6.43
AD5318BRUZ-ND	DAC 10-Bit, 2.5V Octal*	16-TSSOP	9.66	8.70	7.72
AD5320BRM-ND	DAC 12-Bit, 2.7V Rail-to-Rail Out	8-MSOP	6.72	5.38	4.54
AD5320BRMZ-ND	DAC 12-Bit, 2.7V Rail-to-Rail Out*	8-MSOP	6.10	4.88	4.12
AD5320BRT500RL7CT-ND	DAC 12-Bit, 2.7V Rail-to-Rail Out	SOT-23-6	5.94	4.76	4.01
AD5320BRT-REEL7CT-ND	DAC 12-Bit, 2.7V Rail-to-Rail Out	SOT-23-6	5.50	4.40	3.72
AD5320BRT-REEL7TR-ND	DAC 12-Bit, 2.7V Rail-to-Rail Out	SOT-23-6	10395.00/3,000		
AD5320BRTZREEL7CT-ND	DAC 12-Bit, 2.7V Rail-to-Rail Out*	SOT-23-6	5.00	4.00	3.38
AD5320BRTZREEL7TR-ND	DAC 12-Bit, 2.7V Rail-to-Rail Out*	SOT-23-6	9300.00/3,000		
AD5321BRMZ-ND	DAC 12-Bit, 2.5V 2-Wire*	8-MSOP	7.20	5.76	4.86
AD5322BRMZ-ND	DAC 12-Bit Dual Rail-to-Rail Out*	10-MSOP	8.63	7.77	6.89
AD5323BRUZ-ND	DAC 12-Bit Dual Rail-to-Rail*	16-TSSOP	9.15	8.24	7.31
AD5324BRMZ-ND	DAC 12-Bit Quad 2.5V*	10-MSOP	14.13	12.72	11.28
AD5325BRMZ-ND	DAC 12-Bit, 2-Wire I^{2}C*	10-MSOP	14.13	12.72	11.28
AD5326ARUZ-ND	DAC 12-Bit Quad with Buffer*	16-TSSOP	10.76	9.69	8.60
AD5326BRU-ND	DAC 12-Bit Quad with Buffer	16-TSSOP	13.93	12.54	11.12
AD5326BRUZ-ND	DAC 12-Bit Quad with Buffer*	16-TSSOP	14.73	13.26	11.76
AD5327BRUZ-ND	DAC 12-Bit Quad 2.5V*	16-TSSOP	14.73	13.26	11.76
AD5328ARU-ND	DAC 12-Bit, 2.5V Octal	16-TSSOP	15.54	14.00	12.41
AD5328ARUZ-ND	DAC 12-Bit, 2.5V Octal*	16-TSSOP	14.13	12.72	11.28
AD5328BRUZ-ND	DAC 12-Bit, 2.5V Octal*	16-TSSOP	16.59	14.94	13.25
AD5330BRUZ-ND	DAC 8-Bit Single Voltage Out*	20-TSSOP	5.36	4.29	3.34
AD5331BRUZ-ND	DAC 10-Bit Single Voltage Out*	20-TSSOP	5.12	4.10	3.46
AD5333BRUZ-ND	DAC 10-Bit Dual Voltage Out*	24-TSSOP	7.32	5.86	4.95
AD5334BRUZ-ND	DAC 8-Bit Quad Voltage Out*	24-TSSOP	8.18	6.55	5.53
AD5336BRU-ND	DAC 10-Bit Quad Voltage Out	28-TSSOP	10.74	8.60	7.25
AD5336BRUZ-ND	DAC 10-Bit Quad Voltage Out*	28-TSSOP	9.76	7.81	6.59
AD5337ARMZ-ND	DAC 8-Bit Dual 2-Wire*	8-MSOP	3.04	2.43	1.89
AD5338ARMZ-ND	DAC 10-Bit Dual 2-Wire*	8-MSOP	5.22	4.18	3.25
AD5339ARM-ND	DAC 12-Bit Dual 2-Wire	8-MSOP	7.80	6.24	5.27
AD5339BRM-ND	DAC 12-Bit Dual 2-Wire	8-MSOP	9.75	8.78	7.79
AD5341BRU-ND	DAC 12-Bit Single Voltage Out	20-TSSOP	8.06	6.45	5.45
AD5341BRUZ-ND	DAC 12-Bit Single Voltage Out*	20-TSSOP	7.32	5.86	4.95
AD5343BRUZ-ND	DAC 12-Bit Dual Voltage Out*	20-TSSOP	9.55	8.60	7.63
AD5344BRU-ND	DAC 12-Bit Quad Voltage Out	28-TSSOP	17.78	16.01	14.20
AD5344BRUZ-ND	DAC 12-Bit Quad Voltage Out*	28-TSSOP	16.16	14.55	12.91
AD5346BCP-ND	DAC 8-Bit Octal Voltage Out	40-LFCSP	8.04	6.44	5.43
AD5346BRU-ND	DAC 8-Bit Octal Voltage Out	38-TSSOP	7.92	6.34	5.35
AD5347BRU-ND	DAC 10-Bit Octal Voltage Out	38-TSSOP	11.00	9.90	8.78
AD5348BRUZ-ND	DAC 12-Bit Octal Voltage Out*	38-TSSOP	15.38	14.35	13.33
EVAL-AD5379EB-ND	Evaluation Board for AD5379	—	199.00	—	—
AD5380BSTZ-5-ND	DAC 14-Bit, 40-Channel*	100-LQFP	87.36	81.54	75.72
EVAL-AD5380EB-ND	Evaluation Board for AD5380	—	199.00	—	—
AD5381BSTZ-5-ND	DAC 12-Bit, 40-Channel*	100-LQFP	69.71	65.06	60.42
AD5382BSTZ-5-ND	DAC 14-Bit, 32-Channel Voltage Out*	100-LQFP	75.00	70.00	65.00
AD5383BSTZ-5-ND	DAC 12-Bit, 32-Channel*	100-LQFP	60.89	56.83	52.77
AD5384BBC-5-ND	DAC 14-Bit, 40-Channel Voltage Out	100-CSPBGA	96.09	89.69	83.28
AD5390BCP-3-ND	DAC 14-Bit, 16-Channel	64-LFCSP	46.40	43.31	40.21
AD5390BSTZ-5-ND	DAC 14-Bit, 16-Channel*	52-LQFP	42.18	39.37	36.56

***** *RoHS Compliant*

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
EVAL-AD5390EB-ND	Evaluation Board for AD5390	—	199.00	—	—
AD5391BCPZ-3-ND	DAC 12-Bit, 16-Channel Voltage Out*	64-LFCSP	35.12	32.78	30.44
AD5391BCP-5-ND	DAC 12-Bit, 16-Channel Voltage Out	64-LFCSP	38.63	36.05	33.48
AD5391BCPZ-5-ND	DAC 12-Bit, 16-Channel Voltage Out*	64-LFCSP	35.12	32.78	30.44
AD5392BCP-3-ND	DAC 14-Bit, 8-Channel Voltage Out	64-LFCSP	28.92	27.00	25.07
AD5392BCP-5-ND	DAC 14-Bit, 8-Channel Voltage Out	64-LFCSP	28.92	27.00	25.07
EVAL-AD5392EB-ND	Evaluation Board for AD5392	—	199.00	—	—
AD5398BCBZ-REEL7CT-ND	DAC 10-Bit, 120mA Current Sinking*	9-WLCSP	3.40	2.72	2.12
AD5398BCBZ-REEL7TR-ND	DAC 10-Bit, 120mA Current Sinking*	9-WLCSP	5707.80/3,000		
AD5398BCPZ-REEL7CT-ND	DAC 10-Bit, 120mA Current Sinking*	8-LFCSP	3.40	2.72	2.12
AD5398BCPZ-REEL7TR-ND	DAC 10-Bit, 120mA Current Sinking*	8-LFCSP	2887.88/1,500		
AD5399YRMZ-ND	DAC 12-Bit Dual with Reference*	10-MSOP	9.96	7.97	6.73
AD5405YCP-ND	DAC 12-Bit Dual, Multiply	40-LFCSP	10.14	8.12	6.85
AD5405YCPZ-ND	DAC 12-Bit Dual, Multiply*	40-LFCSP	9.22	7.38	6.23
AD5415YRUZ-ND	DAC 12-Bit Multiplying, High Bandwidth*	24-TSSOP	9.12	7.30	6.16
AD5424YRU-ND	DAC 8-Bit Multiplying	16-TSSOP	4.52	3.62	2.82
AD5424YRUZ-ND	DAC 8-Bit Multiplying*	16-TSSOP	4.12	3.30	2.57
AD5429YRU-REEL7TR-ND	DAC 8-Bit Multiply, High Bandwidth	16-TSSOP	4125.00/1,000		
EVAL-AD5429EB-ND	Evaluation Board for AD5429	—	111.38	—	—
AD5432YRMZ-ND	DAC 10-Bit Multiply, High Bandwidth*	10-MSOP	5.62	4.50	3.80
AD5439YRUZ-ND	DAC 10-Bit Multiply, High Bandwidth*	16-TSSOP	6.84	5.48	4.62
EVAL-AD5439EB-ND	Evaluation Board for AD5439	—	99.00	—	—
AD5440YRU-ND	DAC 10-Bit Multiply, High Bandwidth	24-TSSOP	7.66	6.13	5.18
AD5441BCPZ-REEL7CT-ND	DAC 12-Bit Multiplying, Serial-In* ***NEW!***	8-LFCSP	5.56	4.45	3.46
AD5441BCPZ-REEL7TR-ND	DAC 12-Bit Multiplying, Serial-In* ***NEW!***	8-LFCSP	9336.60/3,000		
AD5441BRMZ-ND	DAC 12-Bit Multiplying, Serial-In* ***NEW!***	8-MSOP	6.02	4.82	4.07
AD5443YRMZ-ND	DAC 12-Bit Multiply, High Bandwidth*	10-MSOP	6.10	4.88	4.12
EVAL-AD5443EB-ND	Evaluation Board for AD5443	—	99.00	—	—
AD5444YRMZ-ND	DAC 12-Bit Multiply, High Bandwidth*	10-MSOP	6.34	5.08	4.28
AD5445YCP-ND	DAC 12-Bit Multiply, High Bandwidth	20-LFCSP	6.84	5.48	4.62
AD5445YRUZ-ND	DAC 12-Bit Multiply, High Bandwidth*	20-TSSOP	6.22	4.98	4.20
EVAL-AD5445EBZ-ND	Evaluation Board for AD5445*	—	99.00	—	—
AD5446YRMZ-ND	DAC 14-Bit Multiply, High Bandwidth*	10-MSOP	9.23	8.31	7.37
AD5447YRUZ-ND	DAC 12-Bit Multiply, High Bandwidth*	24-TSSOP	9.08	7.27	6.13
AD5449YRUZ-ND	DAC 12-Bit Multiply, High Bandwidth*	16-TSSOP	8.98	7.19	6.07
EVAL-AD5449EB-ND	Evaluation Board for AD5449	—	111.38	—	—
AD5516ABC-1-ND	DAC 12-Bit, 16-Channel	74-CSPBGA	47.33	44.17	41.02
AD5516ABC-2-ND	DAC 12-Bit, 16-Channel	74-CSPBGA	52.07	48.60	45.13
AD5516ABCZ-2-ND	DAC 12-Bit, 16-Channel*	74-CSPBGA	47.33	44.17	41.02
AD5530BRUZ-ND	DAC 12-Bit Serial-In/Voltage Out*	16-TSSOP	8.63	7.77	6.89
AD5531BRU-ND	DAC 14-Bit Serial-In/Voltage Out	16-TSSOP	15.53	13.98	12.40
AD5531BRUZ-ND	DAC 14-Bit Serial-In/Voltage Out*	16-TSSOP	14.11	12.71	11.27
AD5532ABCZ-1-ND	DAC 14-Bit, 32-Channel Sample/Hold*	74-CSPBGA	81.90	76.44	70.98
AD5533ABC-1-ND	DAC 14-Bit, 32-Channel	74-CSPBGA	84.98	79.31	73.65
AD5541ARZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	16.50	15.40	14.30
AD5541BRZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	18.75	17.50	16.25
AD5541CR-ND	DAC 16-Bit Serial-In/Voltage Out	8-SOIC	33.00	30.80	28.60
AD5541CRZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	30.00	28.00	26.00
AD5541JR-ND	DAC 16-Bit Serial-In/Voltage Out	8-SOIC	18.33	16.50	14.63
AD5541JRZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	15.00	14.00	13.00
AD5541LRZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	22.50	21.00	19.50
AD5542ARZ-ND	DAC 16-Bit Serial-In*	14-SOIC	16.50	15.40	14.30
AD5542CRZ-ND	DAC 16-Bit Serial-In*	14-SOIC	30.00	28.00	26.00
AD5542LRZ-ND	DAC 16-Bit Serial-In*	14-SOIC	22.50	21.00	19.50
AD5543BRM-ND	DAC 16-Bit Serial-In/Current Out	8-MSOP	15.88	14.30	12.68
AD5543BRMZ-ND	DAC 16-Bit Serial-In/Current Out*	8-MSOP	14.43	12.99	11.52
AD5543BRZ-ND	DAC 16-Bit Serial-In/Current Out*	8-SOIC	14.43	12.99	11.52
AD5544ARSZ-ND	DAC 16-Bit Quad Serial-In*	28-SSOP	30.93	28.87	26.81
AD5545BRUZ-ND	DAC 16-Bit Dual Serial-In*	16-TSSOP	15.38	14.35	13.33
AD5546BRUZ-ND	DAC 16-Bit Multiplying*	28-TSSOP	15.36	14.34	13.32
AD5547BRUZ-ND	DAC 16-Bit Multiplying*	38-TSSOP	15.74	14.69	13.64
AD5551BRZ-ND	DAC 14-Bit Serial-In*	8-SOIC	12.81	11.54	10.23
AD5553CRMZ-ND	DAC 14-Bit Serial-In/Current Out*	8-MSOP	9.25	8.33	7.39
AD5554BRSZ-ND	DAC 14-Bit Quad Serial-In/Current Out*	28-SSOP	23.06	21.52	19.99
AD5555CRU-ND	DAC 14-Bit Dual Serial-In	16-TSSOP	13.53	12.18	10.80
AD5555CRUZ-ND	DAC 14-Bit Dual Serial-In*	16-TSSOP	12.30	11.07	9.82
AD5556CRUZ-ND	DAC 14-Bit Multiplying*	28-TSSOP	10.98	9.89	8.77
AD5570ARS-ND	DAC 16-Bit Serial-In/Voltage Out	16-SSOP	29.00	27.07	25.13
AD5570ARSZ-ND	DAC 16-Bit Serial-In/Voltage Out*	16-SSOP	26.36	24.60	22.85
AD5570WRSZ-ND	DAC 16-Bit Serial-In/Voltage Out*	16-SSOP	31.62	29.52	27.41
AD5582YRVZ-ND	DAC 12-Bit Quad Voltage Out*	48-TSSOP	16.80	15.68	14.56
AD5583YRVZ-ND	DAC 10-Bit Quad Voltage Out*	48-TSSOP	11.46	10.32	9.16
AD5601BKSZ-REEL7CT-ND	8-Bit *nano*DAC®, 2.7V to 5.5V, SPI*	SC70-6	2.38	1.90	1.43
AD5601BKSZ-REEL7TR-ND	8-Bit *nano*DAC®, 2.7V to 5.5V, SPI*	SC70-6	3648.00/3,000		
AD5611BKSZ-REEL7CT-ND	10-Bit *nano*DAC®, 2.7V to 5.5V, SPI* ***NEW!***	SC70-6	2.81	2.25	1.75
AD5611BKSZ-REEL7TR-ND	10-Bit *nano*DAC®, 2.7V to 5.5V, SPI* ***NEW!***	SC70-6	4725.00/3,000		
AD5620CRMZ-2-ND	12-Bit *nano*DAC® Buffered Voltage-Out*	8-MSOP	5.62	4.50	3.80
AD5621AKSZ-REEL7CT-ND	12-Bit *nano*DAC®, 2.7V to 5.5V, SPI*	SC70-6	2.90	2.33	1.81
AD5621AKSZ-REEL7TR-ND	12-Bit *nano*DAC®, 2.7V to 5.5V, SPI*	SC70-6	4875.00/3,000		
AD5621BKSZ-REEL7CT-ND	12-Bit *nano*DAC®, 2.7V to 5.5V, SPI* ***NEW!***	SC70-6	3.15	2.52	1.96
AD5621BKSZ-REEL7TR-ND	12-Bit *nano*DAC®, 2.7V to 5.5V, SPI* ***NEW!***	SC70-6	5292.00/3,000		
AD5622AKSZ-2REEL7CT-ND	12-Bit *nano*DAC®, 2.7V to 5.5V*	SC70-6	2.97	2.38	1.85
AD5622AKSZ-2REEL7TR-ND	12-Bit *nano*DAC®, 2.7V to 5.5V*	SC70-6	4989.00/3,000		
AD5622BKSZ-2REEL7CT-ND	12-Bit *nano*DAC®, 2.7V to 5.5V*	SC70-6	3.15	2.52	1.96
AD5622BKSZ-2REEL7TR-ND	12-Bit *nano*DAC®, 2.7V to 5.5V*	SC70-6	5292.00/3,000		
AD5623RBCPZ-3REEL7CT-ND	Dual 12-Bit *nano*DAC®*	10-LFCSP	5.78	4.63	3.91
AD5623RBCPZ-3REEL7TR-ND	Dual 12-Bit *nano*DAC®*	10-LFCSP	5418.75/1,500		
AD5623RBRMZ-3-ND	Dual 12-Bit *nano*DAC®*	10-MSOP	7.08	5.67	4.78
AD5623RBRMZ-5-ND	Dual 12-Bit *nano*DAC®*	10-MSOP	7.08	5.67	4.78
AD5624BCPZ-REEL7CT-ND	Quad 12-Bit *nano*DAC®*	10-LFCSP	9.15	8.24	7.31
AD5624BCPZ-REEL7TR-ND	Quad 12-Bit *nano*DAC®*	10-LFCSP	10170.23/1,500		
AD5624RBCPZ-3REEL7CT-ND	Quad 12-Bit *nano*DAC®*	10-LFCSP	9.98	8.99	7.97
AD5624RBCPZ-3REEL7TR-ND	Quad 12-Bit *nano*DAC®*	10-LFCSP	11096.48/1,500		
AD5624BRMZ-ND	Quad 12-Bit *nano*DAC®*	10-MSOP	11.16	10.05	8.92
AD5624RBRMZ-3-ND	Quad 12-Bit *nano*DAC®*	10-MSOP	13.21	11.90	10.55
AD5624RBRMZ-5-ND	Quad 12-Bit *nano*DAC®*	10-MSOP	13.21	11.90	10.55
AD5625BCPZ-REEL7CT-ND	Quad 12-Bit *nano*DAC®*	10-LFCSP	10.98	8.79	7.42
AD5625BCPZ-REEL7TR-ND	Quad 12-Bit *nano*DAC®*	10-LFCSP	10170.23/1,500		
AD5625BRUZ-ND	Quad 12-Bit *nano*DAC®*	14-TSSOP	11.16	10.05	8.92
AD5625RBRUZ-1-ND	Quad 12-Bit *nano*DAC®*	14-TSSOP	13.21	11.90	10.55
AD5625RBRUZ-2-ND	Quad 12-Bit *nano*DAC®*	14-TSSOP	14.03	12.63	11.20
AD5626BCPZ-REEL7CT-ND	Dual 12-Bit *nano*DAC®* ***NEW!***	8-LFCSP	3.58	2.87	2.23
AD5626BCPZ-REEL7TR-ND	Dual 12-Bit *nano*DAC®* ***NEW!***	8-LFCSP	3040.88/1,500		
AD5626BRMZ-REEL7CT-ND	12-Bit *nano*DAC®* ***NEW!***	8-MSOP	4.37	3.50	2.72
AD5626BRMZ-REEL7TR-ND	12-Bit *nano*DAC®* ***NEW!***	8-MSOP	2473.50/1,000		
AD5627BCPZ-REEL7CT-ND	Dual 12-Bit *nano*DAC®*	10-LFCSP	5.29	4.23	3.29
AD5627BCPZ-REEL7TR-ND	Dual 12-Bit *nano*DAC®*	10-LFCSP	4494.38/1,500		
AD5627BRMZ-ND	Dual 12-Bit *nano*DAC®*	10-MSOP	5.74	4.60	3.88
AD5627RBCPZ-REEL7CT-ND	Dual 12-Bit *nano*DAC®*	10-LFCSP	5.96	4.77	3.71
AD5627RBCPZ-REEL7TR-ND	Dual 12-Bit *nano*DAC®*	10-LFCSP	4968.75/1,500		
AD5627RBRMZ-1-ND	Dual 12-Bit *nano*DAC®*	10-MSOP	7.20	5.76	4.86
AD5627RBRMZ-2-ND	Dual 12-Bit *nano*DAC®*	10-MSOP	7.80	6.24	5.27
AD5628BRUZ-2-ND	Dual 12-Bit Voltage Out DAC*	16-TSSOP	16.65	15.54	14.43
AD5640BRJZ-1REEL7CT-ND	Single 14-Bit *nano*DAC®* ***NEW!***	SOT-23-8	5.70	4.56	3.85
AD5640BRJZ-1REEL7TR-ND	Single 14-Bit *nano*DAC®* ***NEW!***	SOT-23-8	10602.00/3,000		
AD5641BKSZ-REEL7CT-ND	14-Bit *nano*DAC®, 2.7V to 5.5V, SPI* ***NEW!***	SC70-6	5.96	4.77	3.71
AD5641BKSZ-REEL7TR-ND	14-Bit *nano*DAC®, 2.7V to 5.5V, SPI* ***NEW!***	SC70-6	9858.00/3,000		
AD5643RBRMZ-3-ND	Dual 14-Bit *nano*DAC®*	10-MSOP	9.66	8.70	7.72
AD5643RBRMZ-5-ND	Dual 14-Bit *nano*DAC®*	10-MSOP	9.66	8.70	7.72
AD5644RBRMZ-3-ND	Quad 14-Bit *nano*DAC®*	10-MSOP	16.16	14.55	12.91
AD5644RBRMZ-5-ND	Quad 14-Bit *nano*DAC®*	10-MSOP	16.16	14.55	12.91
AD5645RBCPZ-REEL7CT-ND	Quad 14-Bit *nano*DAC®*	10-LFCSP	12.50	11.25	9.98
AD5645RBCPZ-REEL7TR-ND	Quad 14-Bit *nano*DAC®*	10-LFCSP	13893.75/1,500		
AD5645RBRUZ-ND	Quad 14-Bit *nano*DAC®*	14-TSSOP	16.16	14.55	12.91
AD5647RBCPZ-REEL7CT-ND	Dual 14-Bit *nano*DAC®*	10-LFCSP	9.30	7.44	6.28
AD5647RBCPZ-REEL7TR-ND	Dual 14-Bit *nano*DAC®*	10-LFCSP	8718.75/1,500		
AD5647RBRMZ-ND	Dual 14-Bit *nano*DAC®*	10-MSOP	10.06	9.06	8.04
AD5660ARJZ-1500RL7CT-ND	Single 16-Bit *nano*DAC®*	SOT-23-8	7.30	5.84	4.93
AD5660ARJZ-1500RL7TR-ND	Single 16-Bit *nano*DAC®*	SOT-23-8	2317.75/500		
AD5660ARJZ-2500RL7CT-ND	Single 16-Bit *nano*DAC®*	SOT-23-8	7.30	5.84	4.93
AD5660ARJZ-2500RL7TR-ND	Single 16-Bit *nano*DAC®*	SOT-23-8	2317.75/500		
AD5660CRMZ-3-ND	Single 16-Bit *nano*DAC®* ***NEW!***	8-MSOP	9.16	7.33	6.19
AD5662ARMZ-1-ND	Single 16-Bit *nano*DAC®*	8-MSOP	6.90	5.52	4.66
AD5662BRJZ-1REEL7CT-ND	Single 16-Bit *nano*DAC®*	SOT-23-8	5.90	4.72	3.99
AD5662BRJZ-1REEL7TR-ND	Single 16-Bit *nano*DAC®*	SOT-23-8	10974.00/3,000		
AD5662BRJZ-2REEL7CT-ND	Single 16-Bit *nano*DAC®*	SOT-23-8	5.90	4.72	3.99
AD5662BRJZ-2REEL7TR-ND	Single 16-Bit *nano*DAC®*	SOT-23-8	10974.00/3,000		
AD5663ARMZ-ND	Dual 16-Bit *nano*DAC®*	10-MSOP	10.26	9.24	8.20
AD5663BCPZ-REEL7CT-ND	Dual 16-Bit *nano*DAC®*	10-LFCSP	8.91	8.03	7.12
AD5663BCPZ-REEL7TR-ND	Dual 16-Bit *nano*DAC®*	10-LFCSP	9910.88/1,500		
AD5663BRMZ-ND	Dual 16-Bit *nano*DAC®*	10-MSOP	10.88	9.80	8.69
AD5663BRMZ-1-ND	Dual 16-Bit *nano*DAC®*	10-MSOP	10.88	9.80	8.69
AD5663RBCPZ-3REEL7CT-ND	Dual 16-Bit *nano*DAC®*	10-LFCSP	9.16	8.25	7.32
AD5663RBCPZ-3REEL7TR-ND	Dual 16-Bit *nano*DAC®*	10-LFCSP	10188.75/1,500		
AD5663RBRMZ-3-ND	Dual 16-Bit *nano*DAC®*	10-MSOP	11.98	10.79	9.57
AD5663RBRMZ-5-ND	Dual 16-Bit *nano*DAC®*	10-MSOP	11.98	10.79	9.57
AD5664ARMZ-ND	Quad 16-Bit *nano*DAC®*	10-MSOP	18.21	17.00	15.79
AD5664BCPZ-REEL7CT-ND	Quad 16-Bit *nano*DAC®*	10-LFCSP	15.45	14.42	13.39
AD5664BCPZ-REEL7TR-ND	Quad 16-Bit *nano*DAC®*	10-LFCSP	19080.75/1,500		
AD5664BRMZ-ND	Quad 16-Bit *nano*DAC®*	10-MSOP	18.86	17.60	16.35
AD5664RBCPZ-3REEL7CT-ND	Quad 16-Bit *nano*DAC®*	10-LFCSP	15.68	14.63	13.59
AD5664RBCPZ-3REEL7TR-ND	Quad 16-Bit *nano*DAC®*	10-LFCSP	19358.63/1,500		
AD5664RBRMZ-3-ND	Quad 16-Bit *nano*DAC®*	10-MSOP	20.22	18.88	17.53
AD5664RBRMZ-5-ND	Quad 16-Bit *nano*DAC®*	10-MSOP	20.22	18.88	17.53
AD5665BCPZ-REEL7CT-ND	Quad 16-Bit *nano*DAC®*	10-LFCSP	16.58	14.93	13.24
AD5665BCPZ-REEL7TR-ND	Quad 16-Bit *nano*DAC®*	10-LFCSP	18432.38/1,500		
AD5665BRUZ-ND	Quad 16-Bit *nano*DAC®*	14-TSSOP	18.21	17.00	15.79
AD5665RBCPZ-REEL7CT-ND	Quad 16-Bit *nano*DAC®*	10-LFCSP	17.41	15.68	13.90
AD5665RBCPZ-REEL7TR-ND	Quad 16-Bit *nano*DAC®*	10-LFCSP	19358.63/1,500		
AD5665RBRUZ-1-ND	Quad 16-Bit *nano*DAC®*	14-TSSOP	20.22	18.88	17.53
AD5665RBRUZ-2-ND	Quad 16-Bit *nano*DAC®*	14-TSSOP	20.96	19.56	18.17
AD5666ARUZ-2-ND	Quad 16-Bit *nano*DAC®*	14-TSSOP	17.01	15.88	14.75
AD5667BCPZ-REEL7CT-ND	Dual 16-Bit *nano*DAC®*	10-LFCSP	10.20	8.16	6.89
AD5667BCPZ-REEL7TR-ND	Dual 16-Bit *nano*DAC®*	10-LFCSP	9447.75/1,500		
AD5667BRMZ-ND	Dual 16-Bit *nano*DAC®*	10-MSOP	10.36	9.33	8.28
AD5667RBCPZ-REEL7CT-ND	Dual 16-Bit *nano*DAC®*	10-LFCSP	11.20	8.96	7.56
AD5667RBCPZ-REEL7TR-ND	Dual 16-Bit *nano*DAC®*	10-LFCSP	10374.00/1,500		
AD5667RBRMZ-1-ND	Dual 16-Bit *nano*DAC®*	10-MSOP	11.98	10.79	9.57
AD5667RBRMZ-2-ND	Dual 16-Bit *nano*DAC®*	10-MSOP	12.59	11.34	10.06
AD5668ARUZ-3-ND	Octal 16-Bit *nano*DAC®*	16-TSSOP	25.52	23.82	22.12
AD5678BRUZ-1-ND	4x12-Bit and 4x16-Bit Octal DAC*	14-TSSOP	23.33	21.77	20.22
AD5678BRUZ-2-ND	4x12-Bit and 4x16-Bit Octal DAC*	16-TSSOP	23.33	21.77	20.22
AD5680BRJZ-2REEL7CT-ND	5V, 18-Bit *nano*DAC®*	SOT-23-8	6.78	5.43	4.58
AD5680BRJZ-2REEL7TR-ND	5V, 18-Bit *nano*DAC®*	SOT-23-8	12610.80/3,000		
AD5725ARSZ-500RL7CT-ND	DAC Quad, 12-Bit, Parallel-In, Voltage Output*	28-SSOP	13.43	12.09	10.72
AD5725ARSZ-500RL7TR-ND	DAC Quad, 12-Bit, Parallel-In, Voltage Output*	28-SSOP	5037.50/500		
AD5725ARSZ-1500RL7CT-ND	DAC Quad, 12-Bit, Parallel-In, Voltage Output*	28-SSOP	13.43	12.09	10.72
AD5725ARSZ-1500RL7TR-ND	DAC Quad, 12-Bit, Parallel-In, Voltage Output*	28-SSOP	5037.50/500		
AD5725BRSZ-500RL7CT-ND	DAC Quad, 12-Bit, Parallel-In, Voltage Output*	28-SSOP	15.94	14.36	12.73
AD5725BRSZ-500RL7TR-ND	DAC Quad, 12-Bit, Parallel-In, Voltage Output*	28-SSOP	5981.25/500		
AD5726YRSZ-REELCT-ND	DAC Quad, 12-Bit, Serial-In, Unipolar/ Bipolar, Voltage Out*	16-SSOP	18.74	16.88	14.97
AD5726YRSZ-REELTR-ND	DAC Quad, 12-Bit, Serial-In, Unipolar/ Bipolar, Voltage Out*	16-SSOP	20840.63/1,500		
AD5764ASUZ-ND	DAC 16-Bit Quad, Serial-In/Bipolar Voltage Out*	32-TQFP	40.95	38.22	35.49
AD5764BSUZ-ND	DAC 16-Bit Quad, Serial-In/Bipolar Voltage Out*	32-TQFP	47.55	44.38	41.21
AD5764CSUZ-ND	DAC 16-Bit Quad, Serial-In/Bipolar Voltage Out*	32-TQFP	52.31	48.82	45.34
EVAL-AD5764EBZ-ND	Evaluation Board for AD5764* ***NEW!***	—	140.63	—	—
AD5821BCBZ-REEL7CT-ND	DAC I^2C®, 120mA, Current Sinking 10-Bit*	9-WLCSP	3.40	2.72	2.12
AD5821BCBZ-REEL7TR-ND	DAC I^2C®, 120mA, Current Sinking 10-Bit*	9-WLCSP	5709.00/3,000		
EVAL-AD5821EBZ-ND	Evaluation Board for AD5821*	—	99.00	—	—
AD7111ABNZ-ND	DAC Logarithmic LC^{2}MOS*	16-Dip	11.40	10.26	9.10
AD7111ACNZ-ND	DAC Logarithmic LC^{2}MOS*	16-Dip	15.53	13.98	12.40
AD7224KNZ-ND	DAC 8-Bit LC^{2}MOS*	18-Dip	10.02	8.02	6.77
AD7224KRZ-18-ND	DAC 8-Bit LC^{2}MOS*	18-SOIC	8.90	7.12	6.01
AD7224LNZ-ND	DAC 8-Bit LC^{2}MOS*	18-Dip	11.75	10.58	9.38
AD7224LRZ-18-ND	DAC 8-Bit LC^{2}MOS*	18-SOIC	9.76	8.79	7.80
AD7225KNZ-ND	DAC 8-Bit LC^{2}MOS Quad*	24-Dip	23.78	22.19	20.61
AD7226KNZ-ND	DAC 8-Bit LC^{2}MOS Quad*	20-Dip	22.29	20.81	19.32
AD7226KPZ-ND	DAC 8-Bit LC^{2}MOS Quad*	20-PLCC	24.57	22.94	21.30
AD7226KRZ-ND	DAC 8-Bit LC^{2}MOS Quad*	20-SOIC	21.65	20.21	18.76
AD7228ABNZ-ND	DAC 8-Bit LC^{2}MOS Octal*	24-Dip	23.84	22.25	20.66
AD7228ABRZ-ND	DAC 8-Bit LC^{2}MOS Octal*	24-SOIC	23.15	21.61	20.06
AD7228ACPZ-ND	DAC 8-Bit LC^{2}MOS Octal*	28-PLCC	27.17	25.36	23.55
AD7228ACRZ-ND	DAC 8-Bit LC^{2}MOS Octal*	24-SOIC	27.17	25.36	23.55

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DATA CONVERSION *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AD7228KNZ-ND	DAC 8-Bit LC^{2}MOS Octal*	24-Dip	44.22	41.28	38.33
AD7228KPZ-ND	DAC 8-Bit LC^{2}MOS Octal*	28-PLCC	49.37	46.08	42.79
AD7228LNZ-ND	DAC 8-Bit LC^{2}MOS Octal*	24-Dip	51.83	48.37	44.92
AD7237AAN-ND	DAC 12-Bit LC^{2}MOS Dual	24-Dip	29.91	27.92	25.93
AD7237ABN-ND	DAC 12-Bit LC^{2}MOS Dual	24-Dip	35.10	32.76	30.42
AD7237ABR-ND	DAC 12-Bit LC^{2}MOS Dual	24-SOIC	33.41	31.18	28.96
AD7237ABRZ-ND	DAC 12-Bit LC^{2}MOS Dual*	24-SOIC	31.95	29.82	27.69
AD7237JNZ-ND	DAC 12-Bit LC^{2}MOS Dual*	24-Dip	28.05	26.18	24.31
AD7243ANZ-ND	Serial DAC 12-Bit LC^{2}MOS*	16-Dip	14.53	13.08	11.60
AD7243ARZ-ND	Serial DAC 12-Bit LC^{2}MOS*	16-SOIC	14.11	12.71	11.27
AD7244JR-ND	DAC 14-Bit LC^{2}MOS Dual	28-SOIC	41.24	38.49	35.74
AD7244JRZ-ND	DAC 14-Bit LC^{2}MOS Dual*	28-SOIC	39.44	36.81	34.18
AD7245AANZ-ND	DAC 12-Bit with Reference*	24-Dip	13.66	12.30	10.91
AD7245AAPZ-ND	DAC 12-Bit with Reference*	28-PLCC	15.23	14.21	13.20
AD7245AAR-ND	DAC 12-Bit with Reference	24-SOIC	14.59	13.14	11.66
AD7245AARZ-ND	DAC 12-Bit with Reference*	24-SOIC	13.26	11.94	10.59
AD7245JPZ-ND	DAC 12-Bit with Reference*	28-PLCC	15.23	14.21	13.20
AD7247AAN-ND	DAC 12-Bit Dual Voltage Out	24-Dip	29.33	27.37	25.42
AD7247AANZ-ND	DAC 12-Bit Dual Voltage Out*	24-Dip	28.05	26.18	24.31
AD7247AARZ-ND	DAC 12-Bit Dual Voltage Out*	24-SOIC	27.23	25.41	23.60
AD7247ABRZ-ND	DAC 12-Bit Dual Voltage Out*	24-SOIC	31.95	29.82	27.69
AD7248AANZ-ND	DAC 12-Bit LC^{2}MOS*	20-Dip	15.03	13.53	12.00
AD7248AARZ-ND	DAC 12-Bit with Reference*	20-SOIC	14.59	13.14	11.66
AD7248JNZ-ND	DAC 12-Bit with Reference*	20-Dip	16.63	14.97	13.28
AD7249ANZ-ND	DAC 12-Bit Serial with Reference*	16-Dip	18.45	17.22	15.99
AD7249ARZ-ND	DAC 12-Bit Serial with Reference*	16-SOIC	17.91	16.72	15.53
AD7302BNZ-ND	DAC 8-Bit Dual 2.7V to 5.5V*	20-Dip	5.30	4.24	3.58
AD7302BRZ-ND	DAC 8-Bit Dual 2.7V to 5.5V*	20-SOIC	5.14	4.12	3.47
AD7302BR-REEL7CT-ND	DAC 8-Bit Dual 2.7V to 5.5V	20-SOIC	5.66	4.53	3.83
AD7302BRUZ-ND	DAC 8-Bit Dual 2.7V to 5.5V*	20-TSSOP	5.14	4.12	3.47
AD7303BNZ-ND	DAC 8-Bit Dual 2.7V*	8-Dip	6.20	4.96	4.19
AD7303BRZ-ND	DAC 8-Bit Dual 2.7V*	8-SOIC	6.02	4.82	4.07
AD7303BRMZ-ND	DAC 8-Bit Dual 2.7V*	8-MSOP	6.40	5.12	4.32
AD7304BRU-ND	DAC 8-Bit Quad 3V/5V Rail-to-Rail	16-TSSOP	9.14	7.32	6.17
AD7304BRZ-ND	DAC 8-Bit Quad 3V/5V Rail-to-Rail*	16-SOIC	8.30	6.64	5.61
AD7304YRZ-ND	DAC 8-Bit Quad 3V/5V Rail-to-Rail*	16-SOIC	10.16	9.15	8.12
AD7305BRZ-ND	DAC 8-Bit Quad 5V Rail-to-Rail*	20-SOIC	9.60	7.68	6.48
AD7305BRU-ND	DAC 8-Bit Quad 5V Rail-to-Rail	20-TSSOP	10.56	8.45	7.13
AD7305BRUZ-ND	DAC 8-Bit Quad 5V Rail-to-Rail*	20-TSSOP	9.60	7.68	6.48
AD7390ARZ-ND	DAC 12-Bit, 3V Serial-In*	8-SOIC	9.33	8.40	7.45
AD7391ANZ-ND	DAC 10-Bit, 3V Serial-In*	8-Dip	7.44	5.96	5.03
AD7391AR-ND	DAC 10-Bit, 3V Serial-In	8-SOIC	7.94	6.36	5.36
AD7391ARZ-ND	DAC 10-Bit, 3V Serial-In*	8-SOIC	7.22	5.78	4.88
AD7392AR-ND	DAC 12-Bit, 3V Parallel	20-SOIC	10.91	9.83	8.72
AD7392ARZ-ND	DAC 12-Bit, 3V Parallel*	20-SOIC	9.91	8.93	7.92
AD7393ARZ-ND	DAC 10-Bit, 3V Parallel*	20-SOIC	7.66	6.13	5.18
AD7396ARZ-ND	DAC 12-Bit, 3V Parallel*	24-SOIC	11.66	10.50	9.31
AD7397ARU-ND	DAC 10-Bit, 3V Parallel	24-TSSOP	9.06	7.25	6.12
AD7398BRZ-ND	DAC 12-Bit Quad Serial-In*	16-SOIC	16.13	15.05	13.98
AD7398BRUZ-ND	DAC 12-Bit Quad Serial-In*	16-TSSOP	16.13	15.05	13.98
AD7399BRZ-ND	DAC 10-Bit Quad Serial-In* ***NEW!***	16-SOIC	9.16	8.25	7.32
AD7399BRUZ-ND	DAC 10-Bit Quad Serial-In*	16-TSSOP	9.16	8.25	7.32
AD7524JNZ-ND	DAC 8-Bit Multiplying*	16-Dip	7.24	5.80	4.89
AD7524JRZ-ND	DAC 8-Bit Multiplying*	16-SOIC	7.66	6.13	5.18
AD7524KNZ-ND	DAC 8-Bit Multiplying*	16-Dip	7.56	6.05	5.11
AD7528JNZ-ND	DAC 8-Bit Dual Multiplying*	20-Dip	9.15	8.24	7.31
AD7528JP-ND	DAC 8-Bit Dual Multiplying	20-PLCC	11.15	10.04	8.90
AD7528JRZ-ND	DAC 8-Bit Dual Multiplying*	20-SOIC	10.13	9.12	8.09
AD7528KNZ-ND	DAC 8-Bit Dual Multiplying*	20-Dip	9.45	8.51	7.55
AD7528LNZ-ND	DAC 8-Bit Dual Multiplying*	20-Dip	15.28	13.76	12.20
AD7528LR-ND	DAC 8-Bit Dual Multiplying	20-SOIC	15.23	14.21	13.20
AD7533JNZ-ND	DAC 10-Bit Multiplying*	16-Dip	7.08	5.67	4.78
AD7533KNZ-ND	DAC 10-Bit Multiplying*	16-Dip	7.66	6.13	5.18
AD7533LNZ-ND	DAC 10-Bit Multiplying*	16-Dip	9.18	7.35	6.20
AD7537KPZ-ND	DAC 12-Bit LC^{2}MOS Dual*	28-PLCC	22.88	21.35	19.83
AD7537LN-ND	DAC 12-Bit LC^{2}MOS Dual	24-Dip	30.50	28.47	26.43
AD7541AJNZ-ND	DAC 12-Bit Multiplying*	18-Dip	11.51	10.37	9.20
AD7541AKNZ-ND	DAC 12-Bit Multiplying*	18-Dip	12.79	11.52	10.22
AD7541AKRZ-ND	DAC 12-Bit Multiplying*	18-SOIC	8.96	8.07	7.16
AD7542JNZ-ND	DAC 12-Bit Multiplying*	16-Dip	20.84	19.45	18.06
AD7542KNZ-ND	DAC 12-Bit Multiplying*	16-Dip	23.01	21.48	19.95
AD7543GKR-ND	DAC 12-Bit Serial Input Multiplying	16-SOIC	27.93	26.07	24.21
AD7545AKN-ND	DAC 12-Bit Multiplying	20-Dip	11.13	10.02	8.89
AD7545AKNZ-ND	DAC 12-Bit Multiplying*	20-Dip	10.11	9.11	8.08
AD7545GLN-ND	DAC 12-Bit Multiplying	20-Dip	25.46	23.76	22.07
AD7545JNZ-ND	DAC 12-Bit Multiplying*	20-Dip	12.28	11.06	9.81
AD7547JN-ND	DAC 12-Bit LC^{2}MOS Dual	24-Dip	22.04	20.57	19.10
AD7547JNZ-ND	DAC 12-Bit LC^{2}MOS Dual*	24-Dip	20.04	18.71	17.37
AD7547JPZ-ND	DAC 12-Bit LC^{2}MOS Dual*	28-PLCC	22.41	20.92	19.43
AD7547JRZ-ND	DAC 12-Bit LC^{2}MOS Dual*	24-SOIC	19.46	18.16	16.87
AD7547KN-ND	DAC 12-Bit LC^{2}MOS Dual	24-Dip	25.85	24.13	22.40
AD7547KNZ-ND	DAC 12-Bit LC^{2}MOS Dual*	24-Dip	23.49	21.93	20.36
AD7547KPZ-ND	DAC 12-BIt LC^{2}MOS Dual*	28-PLCC	26.22	24.48	22.73
AD7548JNZ-ND	DAC 12-Bit LC^{2}MOS*	20-Dip	16.01	14.42	12.79
AD7548KNZ-ND	DAC 12-Bit LC^{2}MOS*	20-Dip	17.48	16.31	15.15
AD7548KP-ND	DAC 12-Bit LC^{2}MOS	20-PLCC	19.32	18.04	16.75
AD7564BRZ-ND	DAC 12-Bit LC^{2}MOS Quad*	28-SOIC	21.00	19.60	18.20
AD7564BRSZ-ND	DAC 12-Bit LC^{2}MOS Quad*	28-SSOP	21.00	19.60	18.20
AD7568BPZ-ND	DAC 12-Bit LC2MOS Octal*	44-PLCC	46.20	43.12	40.04
AD7568BS-ND	DAC 12-Bit LC^{2}MOS Octal	44-PQFP	50.82	47.44	44.05
AD7568BSZ-ND	DAC 12-Bit LC^{2}MOS Octal*	44-PQFP	46.20	43.12	40.04
AD7628KN-ND	DAC 8-Bit Dual Multiplying	20-Dip	5.60	4.49	3.49
AD7628KNZ-ND	DAC 8-Bit Dual Multiplying*	20-Dip	5.36	4.29	3.34
AD7628KRZ-ND	DAC 8-Bit Dual Multiplying*	20-SOIC	5.22	4.18	3.25
AD7801BR-ND	DAC 8-Bit, 2.7V	20-SOIC	5.72	4.58	3.56
AD7801BRU-ND	DAC 8-Bit, 2.7V	20-TSSOP	5.72	4.58	3.56
AD7801BRUZ-ND	DAC 8-Bit, 2.7V*	20-TSSOP	5.20	4.16	3.24
AD7801BRZ-ND	DAC 8-Bit, 2.7V*	20-SOIC	5.20	4.16	3.24
AD7808BRZ-ND	DAC 10-Bit, 3.3V Octal*	24-SOIC	18.08	16.87	15.67
AD7809BSTZ-ND	DAC 10-Bit Octal*	44-TQFP	20.91	19.52	18.13
AD7834ARZ-ND	DAC 14-Bit Quad*	28-SOIC	41.25	38.50	35.75
AD7834BRZ-ND	DAC 14-Bit Quad*	28-SOIC	52.14	48.67	45.19
AD7835AS-ND	DAC 14-Bit Quad	44-MQFP	45.38	42.35	39.33
AD7835ASZ-ND	DAC 14-Bit Quad*	44-MQFP	43.40	40.51	37.61
AD7837ANZ-ND	DAC 12-Bit Multiplying Dual*	24-Dip	21.93	20.47	19.01
AD7837ARZ-ND	DAC 12-Bit Multiplying Dual*	24-SOIC	21.29	19.87	18.45
AD7837BRZ-ND	DAC 12-Bit Multiplying Dual*	24-SOIC	24.98	23.31	21.65
AD7839ASZ-ND	DAC 13-Bit Octal Voltage Out*	44-MQFP	41.73	38.95	36.17
AD7840ARSZ-ND	DAC 14-Bit Low Power 5V*	24-SSOP	21.93	20.47	19.01
AD7840JNZ-ND	DAC 14-Bit LC^{2}MOS Voltage Out*	24-Dip	19.07	17.80	16.53
AD7840JP-ND	DAC 14-Bit LC^{2}MOS Voltage Out	28-PLCC	22.94	21.41	19.88
AD7840JPZ-ND	DAC 14-Bit LC^{2}MOS Voltage Out*	28-PLCC	21.93	20.47	19.01
AD7841ASZ-ND	DAC 14-Bit Octal Voltage Out*	44-MQFP	50.55	47.18	43.81
AD7841BS-ND	DAC 14-Bit Octal Voltage Out	44-MQFP	65.60	61.23	56.85
AD7841BSZ-ND	DAC 14-Bit Octal Voltage Out*	44-MQFP	59.63	55.65	51.68
AD7845JNZ-ND	DAC 12-Bit Multiplying*	24-Dip	10.91	9.83	8.72
AD7845JRZ-ND	DAC 12-Bit Multiplying*	24-SOIC	10.60	9.54	8.46
AD7845KPZ-ND	DAC 12-Bit Multiplying*	28-PLCC	16.41	14.78	13.11
AD7846JNZ-ND	DAC 16-Bit LC^{2}MOS Voltage Out*	28-Dip	34.95	32.62	30.29
AD7846JPZ-ND	DAC 16-Bit LC^{2}MOS Voltage Out*	28-PLCC	37.32	34.84	32.35
AD7846KNZ-ND	DAC 16-Bit LC^{2}MOS Voltage Out*	28-Dip	44.15	41.21	38.26
AD7846KPZ-ND	DAC 16-Bit LC^{2}MOS Voltage Out*	28-PLCC	42.86	40.00	37.15
AD7847AN-ND	DAC 12-Bit Multiplying Dual	24-Dip	25.08	23.41	21.74
AD7847ANZ-ND	DAC 12-Bit Multiplying Dual*	24-Dip	22.80	21.28	19.76
AD7847AR-ND	DAC 12-Bit Multiplying Dual	24-SOIC	24.36	22.74	21.12
AD7847ARZ-ND	DAC 12-Bit Multiplying Dual*	24-SOIC	22.14	20.67	19.19
AD7847BRZ-ND	DAC 12-Bit Multiplying Dual*	24-SOIC	25.97	24.24	22.51
AD7849BR-ND	DAC 14/16-Bit Serial-In	20-SOIC	21.45	20.02	18.59
AD7849BRZ-ND	DAC 14/16-Bit Serial-In*	20-SOIC	19.50	18.20	16.90
AD7943BRZ-ND	DAC 12-Bit Multiplying*	16-SOIC	9.30	7.44	6.28
AD7945BRZ-ND	DAC 12-Bit Multiplying*	20-SOIC	9.30	7.44	6.28
AD7945BRS-ND	DAC 12-Bit Multiplying	20-SSOP	10.24	8.20	6.92
AD7945BRSZ-ND	DAC 12-Bit Multiplying*	20-SSOP	9.30	7.44	6.28
AD7948BR-ND	DAC 12-Bit Multiplying	20-SOIC	10.24	8.20	6.92
AD7948BRZ-ND	DAC 12-Bit Multiplying*	20-SOIC	9.30	7.44	6.28
AD8300AR-ND	DAC 12-Bit 3V Serial-In	8-SOIC	13.30	10.64	8.98
AD8300ARZ-ND	DAC 12-Bit 3V Serial-In*	8-SOIC	10.60	9.54	8.46
AD8522ARZ-ND	DAC 12-Bit Dual 5V*	14-SOIC	15.69	14.13	12.53
AD8582ARZ-ND	DAC 12-Bit Dual 5V*	24-SOIC	18.66	17.42	16.18
AD8801ARZ-ND	DAC 8-Bit Octal with Shutdown*	16-SOIC	7.66	6.13	5.18
AD8803ARZ-ND	DAC 8-Bit Octal with Shutdown*	16-SOIC	7.66	6.13	5.18
AD8842ARZ-ND	DAC 8-Bit Octal Multiplying*	24-SOIC	15.11	14.10	13.10
AD9704BCPZ-ND	DAC 8-Bit, 175Msps*	32-LFCSP	6.94	5.56	4.69
AD9705BCPZ-ND	DAC 10-Bit, 175Msps*	32-LFCSP	9.88	7.91	6.67
AD9706BCPZ-ND	DAC 12-Bit, 175Msps*	32-LFCSP	11.66	10.50	9.31
AD9707BCPZ-ND	DAC 14-Bit, 175Msps*	32-LFCSP	14.41	12.98	11.51
AD9708ARZ-ND	DAC 8-Bit, 100Msps*	28-SOIC	7.42	5.94	5.01
AD9708ARUZ-ND	DAC 8-Bit, 100Msps*	28-TSSOP	7.42	5.94	5.01
AD9709ASTZ-ND	DAC 8-Bit, 125Msps*	48-LQFP	8.81	7.94	7.04
AD9726BSVZ-ND	DAC 16-Bit, 400Msps*	80-TQFP	61.68	57.57	53.46
AD9740ACPZ-ND	DAC 10-Bit, 210Msps*	32-LFCSP	9.88	7.91	6.67
AD9740AR-ND	DAC 10-Bit, 210Msps	28-SOIC	10.86	8.69	7.34
AD9740ARUZ-ND	DAC 10-Bit, 210Msps*	28-TSSOP	9.88	7.91	6.67
AD9740ARZ-ND	DAC 10-Bit, 210Msps*	28-SOIC	9.88	7.91	6.67
AD9741-EBZ-ND	Evaluation Board for AD9741*	—	337.50	—	—
AD9741BCPZ-ND	DAC 8-Bit, 250Msps*	72-LFCSP	12.71	11.45	10.15
AD9742ACPZ-ND	DAC 12-Bit, 210Msps*	32-LFCSP	11.66	10.50	9.31
AD9742AR-ND	DAC 12-Bit, 210Msps	28-SOIC	12.83	11.55	10.25
AD9742ARUZ-ND	DAC 12-Bit, 210Msps*	28-TSSOP	11.66	10.50	9.31
AD9742ARZ-ND	DAC 12-Bit, 210Msps*	28-SOIC	11.66	10.50	9.31
AD9743-EBZ-ND	Evaluation Board for AD9743*	—	337.50	—	—
AD9743BCPZ-ND	DAC 10-Bit, 250Msps*	72-LFCSP	15.89	14.31	12.69
AD9744ACPZ-ND	DAC 14-Bit, 210Msps*	32-LFCSP	14.41	12.98	11.51
AD9744ARUZ-ND	DAC 14-Bit, 210Msps*	28-TSSOP	14.41	12.98	11.51
AD9744ARZ-ND	DAC 14-Bit, 210Msps*	28-SOIC	14.41	12.98	11.51
AD9745BCPZ-ND	DAC 12-Bit, 250Msps*	72-LFCSP	17.88	16.69	15.50
AD9746-EBZ-ND	Evaluation Board for AD9746*	—	337.50	—	—
AD9747-EBZ-ND	Evaluation Board for AD9747*	—	337.50	—	—
AD9747BCPZ-ND	DAC 16-Bit, 250Msps*	72-LFCSP	28.05	26.18	24.31
AD9748ACP-ND	DAC 8-Bit, 165Msps	32-LFCSP	7.64	6.12	5.16
AD9748ACPZ-ND	DAC 8-Bit, 165Msps*	32-LFCSP	6.94	5.56	4.69
AD9750ARZ-ND	DAC 10-Bit, 125Msps*	28-SOIC	8.73	7.86	6.97
AD9751ASTZ-ND	DAC 10-Bit, 300Msps*	48-LQFP	31.50	29.40	27.30
AD9752ARZ-ND	DAC 12-Bit, 125Msps*	28-SOIC	11.76	10.59	9.39
AD9752ARUZ-ND	DAC 12-Bit, 125Msps High Performance*	28-TSSOP	11.76	10.59	9.39
AD9753ASTZ-ND	DAC 12-Bit, 300Msps*	48-LQFP	50.70	47.32	43.94
AD9754ARZ-ND	DAC 14-Bit, 125Msps High Performance*	28-SOIC	14.61	13.16	11.67
AD9754ARUZ-ND	DAC 14-Bit, 125Msps*	28-TSSOP	14.61	13.16	11.67
AD9755ASTZ-ND	DAC 14-Bit, 300Msps*	48-LQFP	62.63	58.45	54.28
AD9755-EB-ND	Evaluation Board for AD9755	—	300.00	—	—
AD9760AR50-ND	DAC 10-Bit, 50Msps	28-SOIC	12.66	10.13	8.55
AD9760ARU-ND	DAC 10-Bit, 125Msps	28-TSSOP	10.66	9.60	8.52
AD9760ARUZ-ND	DAC 10-Bit, 125Msps*	28-TSSOP	9.70	8.73	7.75
AD9760ARZ-ND	DAC 10-Bit, 125Msps*	28-SOIC	9.70	8.73	7.75
AD9760ARZ50-ND	DAC 10-Bit, 50Msps*	28-SOIC	9.58	8.63	7.65
AD9761ARSZ-ND	DAC 10-Bit Dual 40Msps*	28-SSOP	15.36	14.34	13.32
AD9762ARZ-ND	DAC 12-Bit, 125Msps*	28-SOIC	11.96	10.77	9.55
AD9762ARUZ-ND	DAC 12-Bit, 125Msps*	28-TSSOP	11.96	10.77	9.55
AD9763ASTZ-ND	DAC 10-Bit, Dual 125Msps*	48-LQFP	11.76	10.59	9.39
AD9764ARZ-ND	DAC 14-Bit, 125Msps*	28-SOIC	15.39	13.86	12.29
AD9764ARUZ-ND	DAC 14-Bit, 125Msps*	28-TSSOP	15.39	13.86	12.29
AD9765ASTZ-ND	DAC 12-Bit, Dual 125Msps*	48-LQFP	18.53	17.29	16.06
AD9767ASTZ-ND	DAC 14-Bit, Dual 125Msps*	48-LQFP	21.18	19.77	18.36
AD9772AAST-ND	DAC 14-Bit, 160Msps	48-LQFP	29.03	27.09	25.16
AD9772AASTZ-ND	DAC 14-Bit, 160Msps*	48-LQFP	26.39	24.63	22.87
AD9773BSV-ND	DAC 12-Bit, Dual 160Msps	80-TQFP	39.96	37.30	34.64
AD9775BSVZ-ND	DAC 14-Bit, Dual 160Msps*	80-TQFP	54.54	50.91	47.27
AD9776ABSVZ-ND	DAC 12-Bit, Dual 1.0Gsps*	100-TQFP	35.21	32.86	30.52
AD9777BSVZ-ND	DAC 16-Bit, Dual 160Msps*	80-TQFP	60.00	56.00	52.00
AD9779ABSVZ-ND	DAC 16-Bit, Dual 1.0Gsps*	100-TQFP	51.09	47.69	44.28
AD9779A-EBZ-ND	Evaluation Board for AD9779A* ***NEW!***	—	250.00	—	—
AD9779BSVZ-ND	DAC 16-Bit, Dual 1.0Gsps*	100-TQFP	51.09	47.69	44.28
AD9780BCPZ-ND	DAC 12-Bit, Dual 600Msps*	72-LFCSP	28.35	26.46	24.57
AD9783BCPZ-ND	DAC 16-Bit, Dual 600Msps*	72-LFCSP	39.83	37.17	34.52
AD9785BSVZ-ND	DAC 12-Bit, Dual 800Msps* ***NEW!***	100-TQFP	36.99	34.53	32.06

***** *RoHS Compliant*

(Continued)

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DATA CONVERSION *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD9785-EBZ-ND	Evaluation Board for AD9785* ***NEW!***	—	322.50	—	—
AD9788BSVZ-ND	DAC 16-Bit, Dual 800Msps* ***NEW!***	100-TQFP	52.88	49.35	45.83
AD9788-EBZ-ND	Evaluation Board for AD9788* ***NEW!***	—	322.50	—	—
ADDAC80NZ-CBI-V-ND	DAC 12-Bit, Binary Mono*	24-Dip	19.91	18.58	17.26
ADV7120KSTZ30-ND	DAC Video 3-Channel 30MHz*	48-TQFP	9.23	8.31	7.37
ADV7123JSTZ240-ND	DAC Video Triple High Speed 240MHz*	48-LQFP	12.17	11.36	10.55
ADV7123JSTZ330-ND	DAC Video Triple High Speed 330MHz*	48-LQFP	20.67	19.30	17.92
ADV7123KSTZ50-ND	DAC Video 3-Channel 50MHz*	48-LQFP	8.03	7.23	6.42
ADV7123KSTZ140-ND	DAC Video Triple High Speed*	48-LQFP	10.15	9.14	8.10
ADV7125JSTZ240-ND	DAC Video 3-Channel 240MHz*	48-LQFP	10.80	9.72	8.62
ADV7125KSTZ50-ND	DAC Video 3-Channel 50MHz*	48-LQFP	7.70	6.16	5.20
ADV7125KSTZ140-ND	DAC Video 3-Channel 140MHz*	48-LQFP	8.11	7.31	6.48
ADV7127JRUZ240-ND	DAC Video 240MHz, 3.3/5V*	24-TSSOP	15.62	14.58	13.54
ADV7127KRUZ50-ND	DAC Video 240MHz Single High Speed*	24-TSSOP	9.74	7.80	6.58
ADV7127KRUZ140-ND	DAC Video 140MHz, 3.3/5V*	24-TSSOP	12.64	11.39	10.10
ADV7129KS-ND	DAC Video Color 192-Bit	304-PQFP	1085.54	1013.17	940.80
ADV7171KSZ-ND	DAC Video Encoder PAL/NTSC*	44-PQFP	11.66	10.50	9.31
ADV7171KSUZ-ND	DAC Video Encoder PAL/NTSC*	44-TQFP	10.00	9.00	7.98
EVAL-ADV7171EBM-ND	Evaluation Board for ADV7171	—	292.50	—	—
ADV7173KSTZ-ND	DAC Video NTSC 6-Channel*	48-LQFP	11.25	10.13	8.98
ADV7177KSZ-ND	DAC Video NTSC 3-Channel*	44-MQFP	8.38	7.55	6.69
ADV7179BCPZ-ND	DAC Video NTSC 3-Channel*	40-LFCSP	13.11	11.81	10.47
ADV7179KCPZ-ND	DAC Video NTSC 3-Channel*	40-LFCSP	10.93	9.84	8.73
ADV7179KCPZ-REELCT-ND	DAC Video NTSC 3-Channel*	40-LFCSP	10.93	9.84	8.73
ADV7301AKST-ND	DAC Video HDTV 6-12-Bit	64-LQFP	37.17	34.70	32.22
ADV7311KST-ND	DAC Six NSV® 12-Bit Video Encoder	64-LQFP	33.63	31.39	29.15
ADV7321KSTZ-ND	DAC Six NSV® 12-Bit Video Encoder*	64-LQFP	33.63	31.39	29.15
ADV7393BCPZ-ND	DAC 10-Bit SD/HD Video Encoder*	40-LFCSP	10.50	9.45	8.38
DAC08AQ-ND	DAC 8-Bit Multiply High Speed	16-CDip	9.98	7.99	6.74
DAC08CPZ-ND	DAC 8-Bit Multiply High Speed*	16-Dip	2.40	1.92	1.44
DAC08CSZ-ND	DAC 8-Bit Multiply High Speed*	16-SOIC	2.40	1.92	1.44
DAC08EPZ-ND	DAC 8-Bit Multiply High Speed*	16-Dip	2.70	2.16	1.68
DAC08HPZ-ND	DAC 8-Bit Multiply High Speed*	16-Dip	4.05	3.24	2.52
DAC16GS-ND	DAC 16-Bit Current Out	24-SOIC	57.45	53.62	49.79
DAC312HPZ-ND	DAC 12-Bit Multiply High Speed*	20-Dip	8.52	6.82	5.76
DAC312HSZ-ND	DAC 12-Bit Multiply High Speed*	20-SOIC	8.52	6.82	5.76
DAC8043AFPZ-ND	DAC 12-Bit Multiply Serial In*	8-Dip	8.58	6.87	5.80
DAC8043AFSZ-ND	DAC 12-Bit Multiply Serial In*	8-SOIC	8.58	6.87	5.80
DAC8043FPZ-ND	DAC 12-Bit Multiply CMOS*	8-Dip	12.41	11.18	9.91
DAC8143FSZ-ND	DAC 12-Bit Daisy-Chain*	16-SOIC	10.28	9.26	8.21
DAC8221FP-ND	DAC 12-Bit Dual Buffered	24-Dip	23.46	21.90	20.34
DAC8222FSZ-ND	DAC 12-Bit Dual Buffered*	24-SOIC	31.01	28.94	26.88
DAC8222GP-ND	DAC 12-Bit Dual Buffered	24-Dip	38.15	35.61	33.06
DAC8248FPZ-ND	DAC 12-Bit Dual Buffered*	24-Dip	25.31	23.62	21.94
DAC8408FSZ-ND	DAC 8-Bit Quad with Memory*	28-SOIC	16.08	14.48	12.84
DAC8408FPCZ-ND	DAC 8-Bit Quad with Memory*	28-PLCC	16.08	14.48	12.84
DAC8412FPZ-ND	DAC 12-Bit Quad Readback*	28-Dip	42.05	39.25	36.44
DAC8412FPCZ-ND	DAC 12-Bit Quad Readback*	28-PLCC	42.05	39.25	36.44
DAC8420ESZ-ND	DAC 12-Bit Quad Serial-Out*	16-SOIC	52.43	48.93	45.44
DAC8420FPZ-ND	DAC 12-Bit Quad Serial-Out*	16-Dip	44.93	41.93	38.94
DAC8420FSZ-ND	DAC 12-Bit Quad Serial-Out*	16-SOIC	44.93	41.93	38.94
DAC8426FS-ND	DAC 8-Bit Quad with Voltage Reference	20-SOIC	30.08	28.07	26.07
DAC8512FPZ-ND	DAC 12-Bit, 5V Complete*	8-Dip	9.56	7.65	6.46
DAC8512FSZ-ND	DAC 12-Bit, 5V Complete*	8-SOIC	9.48	7.59	6.40
DAC8562FPZ-ND	DAC 12-Bit, 5V Parallel*	20-Dip	15.53	13.98	12.40
DAC8562FSZ-ND	DAC 12-Bit, 5V Parallel*	20-SOIC	15.53	13.98	12.40
DAC8800FPZ-ND	DAC 8-Bit Octal CMOS*	20-Dip	16.53	14.88	13.20
DAC8840FS-ND	DAC 8-Bit Octal Multiply	24-SOIC	18.77	17.52	16.27
DAC8841FSZ-ND	DAC 8-Bit Octal 2-Quad*	24-SOIC	17.96	16.76	15.57
PM7226HP-ND	DAC 8-Bit Quad CMOS	20-Dip	19.53	18.23	16.93
PM7226HS-ND	DAC 8-Bit Quad CMOS	20-SOP	22.17	20.70	19.22
PM7545FP-ND	DAC 12-Bit Multiplying	20-Dip	9.81	8.84	7.84
PM7545HP-ND	DAC 12-Bit Multiplying	20-Dip	9.81	8.84	7.84
PM7528HP-ND	DAC 8-Bit Dual Multiplying	20-PLCC	5.60	4.48	3.78
PM7628FP-ND	DAC 8-Bit Dual Multiplying	20-PLCC	6.62	5.30	4.47

RMS-to-DC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD536AJDZ-ND	True RMS/DC Converter*	14-CDip	17.03	15.89	14.76
AD536AJHZ-ND	True RMS/DC Converter*	TO-100	12.38	11.15	9.89
AD536AJQ-ND	True RMS/DC Converter	14-CDip	12.38	11.15	9.89
AD536AKDZ-ND	True RMS/DC Converter*	14-CDip	35.43	33.07	30.71
AD536ASD-ND	True RMS/DC Converter	14-CDip	85.59	79.89	74.18
AD536ASH-ND	True RMS/DC Converter	TO-100	41.84	39.05	36.26
AD636JDZ-ND	True RMS/DC Converter Mono*	14-CDip	16.48	14.84	13.16
AD636JHZ-ND	True RMS/DC Converter Mono*	TO-100	9.78	8.81	7.81
AD637AQ-ND	True RMS/DC Converter Wide Bandwidth	14-CDip	30.36	28.34	26.32
AD637ARZ-ND	True RMS/DC Converter Wide Bandwidth*	16-SOIC	27.95	26.09	24.22
AD637BRZ-ND	True RMS/DC Converter Wide Bandwidth*	16-SOIC	33.12	30.92	28.71
AD637JDZ-ND	True RMS/DC Converter Wide Bandwidth*	14-CDip	38.75	36.17	33.58
AD637JQ-ND	True RMS/DC Converter Wide Bandwidth	14-CDip	16.88	15.75	14.63
AD637JRZ-ND	True RMS/DC Converter Wide Bandwidth*	16-SOIC	17.24	15.53	13.77
AD637KQ-ND	True RMS/DC Converter Wide Bandwidth	14-CDip	28.83	26.91	24.99
AD736ARZ-ND	True RMS/DC Converter Low Power*	8-SOIC	7.92	6.34	5.35
AD736AQ-ND	True RMS/DC Converter Low Power	8-Dip	12.81	11.54	10.23
AD736JNZ-ND	True RMS/DC Converter Low Power*	8-Dip	7.92	6.34	5.35
AD736JRZ-ND	True RMS/DC Converter Low Power*	8-SOIC	7.92	6.34	5.35
AD736KRZ-ND	True RMS/DC Converter Low Power*	8-SOIC	12.38	11.15	9.89
AD737ANZ-ND	True RMS/DC Converter Low Power*	8-Dip	11.68	10.52	9.33
AD737ARZ-ND	True RMS/DC Converter Low Power*	8-SOIC	12.30	11.07	9.82
AD737JNZ-ND	True RMS/DC Converter Low Power*	8-Dip	6.30	5.04	4.26
AD737JRZ-ND	True RMS/DC Converter Low Power*	8-SOIC	6.30	5.04	4.26

Voltage-to-Frequency

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD537JD-ND	Voltage/Frequency Converter	14-CDip	52.38	48.89	45.40
AD537JH-ND	Voltage/Frequency Converter	TO-100	15.11	13.61	12.07
AD650BD-ND	Voltage Freq./Freq. Voltage Converter	14-Dip	31.50	29.40	27.30
AD650JNZ-ND	Voltage Freq./Freq. Voltage Converter*	14-Dip	15.14	13.64	12.09
AD650KNZ-ND	Voltage Freq./Freq. Voltage Converter*	14-Dip	17.04	15.91	14.77
AD652BQ-ND	Voltage/Frequency Converter Sync.	16-Dip	23.09	21.55	20.01
AD652JPZ-ND	Voltage/Frequency Converter Sync.*	20-PLCC	16.49	14.85	13.17
AD652KPZ-ND	Voltage/Frequency Converter Sync.*	20-PLCC	19.34	18.05	16.76
AD654JNZ-ND	Voltage/Frequency Converter Mono*	8-Dip	8.54	6.84	5.77
AD654JR-ND	Voltage/Frequency Converter Mono	8-SOIC	9.14	7.32	6.17
AD654JRZ-ND	Voltage/Frequency Converter Mono*	8-SOIC	8.30	6.64	5.61
AD7740YRMZ-ND	Voltage/Frequency Converter Sync. 3V/5V*	8-MSOP	2.93	2.34	1.82
AD7741BNZ-ND	Voltage/Frequency Converter Sync.*	8-Dip	4.75	3.80	2.96
AD7741BRZ-ND	Voltage/Frequency Converter Sync.*	8-SOIC	4.61	3.69	2.87
EVAL-AD7741/42EBZ-ND	Evaluation Board for AD7741*	—	100.00	—	—

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DIGITAL POTENTIOMETERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD5160BRJZ5-RL7CT-ND	Pot. Digital 5K, 256 Position*	SOT-23-8	1.58	1.26	.95
AD5160BRJZ5-RL7TR-ND	Pot. Digital 5K, 256 Position*	SOT-23-8	2419.20/3,000		
AD5160BRJZ10-RL7CT-ND	Pot. Digital 10K, 256 Position*	SOT-23-8	1.58	1.26	.95
AD5160BRJZ10-RL7TR-ND	Pot. Digital 10K, 256 Position*	SOT-23-8	2419.20/3,000		
AD5160BRJZ50-RL7CT-ND	Pot. Digital 50K, 256 Position*	SOT-23-8	1.58	1.26	.95
AD5160BRJZ50-RL7TR-ND	Pot. Digital 50K, 256 Position*	SOT-23-8	2419.20/3,000		
AD5160BRJZ100-RL7CT-ND	Pot. Digital 100K, 256 Position*	SOT-23-8	1.58	1.26	.95
AD5160BRJZ100-RL7TR-ND	Pot. Digital 100K, 256 Position*	SOT-23-8	2419.20/3,000		
AD5161BRMZ5-ND	Pot. Digital 5K, 256 Position*	10-MSOP	1.78	1.42	1.07
AD5161BRMZ10-ND	Pot. Digital 10K, 256 Position*	10-MSOP	1.78	1.42	1.07
AD5161BRMZ50-ND	Pot. Digital 50K, 256 Position*	10-MSOP	1.78	1.42	1.07
AD5161BRMZ100-ND	Pot. Digital 100K, 256 Position*	10-MSOP	1.78	1.42	1.07
AD5162BRMZ2.5-ND	Pot. Dual 2.5K, 256 Position*	10-MSOP	2.48	1.98	1.54
AD5162BRMZ10-ND	Pot. Dual 10K, 256 Position*	10-MSOP	2.48	1.98	1.54
AD5162BRMZ100-ND	Pot. Dual 100K, 256 Position*	10-MSOP	2.48	1.98	1.54
AD5165BUJZ100-R2CT-ND	Pot. Digital 100K, 256 Position*	TSOT-23-8	2.30	1.84	1.38
AD5165BUJZ100-R2TR-ND	Pot. Digital 100K, 256 Position*	TSOT-23-8	322.00/250		
AD5170BRMZ2.5-ND	Pot. Digital 2.5K, 256 Position*	10-MSOP	2.75	2.20	1.65
AD5170BRMZ10-ND	Pot. Digital 10K, 256 Position*	10-MSOP	2.75	2.20	1.65
AD5170BRMZ50-ND	Pot. Digital 50K, 256 Position*	10-MSOP	2.48	1.98	1.54
AD5170BRMZ100-ND	Pot. Digital 100K, 256 Position*	10-MSOP	2.75	2.20	1.65
AD5171BRJZ10-R2CT-ND	Pot. Digital 10K, OTP*	SOT-23-8	2.43	1.95	1.52
AD5172BRMZ2.5-ND	Pot. Dual 2.5K, 256 Position*	10-MSOP	3.24	2.60	2.02
AD5172BRM50-ND	Pot. Dual 50K, 256 Position	10-MSOP	3.56	2.85	2.22
AD5172BRMZ50-ND	Pot. Dual 50K, 256 Position*	10-MSOP	3.24	2.60	2.02
AD5172BRMZ100-ND	Pot. Dual 100K, 256 Position*	10-MSOP	3.24	2.60	2.02
AD5173BRM2.5-ND	Pot. Digital Dual 2.5K OTP	10-MSOP	3.56	2.85	2.22
AD5173BRM100-ND	Pot. Digital Dual 100K OTP	10-MSOP	3.56	2.85	2.22
AD5200BRMZ10-ND	Pot. Digital 10K, 256 Position*	10-MSOP	2.45	1.96	1.47
AD5201BRMZ50-ND	Pot. Digital 50K, 33 Position*	10-MSOP	1.35	1.08	.81
AD5203ARUZ10-ND	Pot. Digital 10K, Quad 64 Position*	24-TSSOP	3.60	2.88	2.24
AD5203ARUZ100-ND	Pot. Digital 100K, Quad 64 Position*	24-TSSOP	3.60	2.88	2.24
AD5204BRZ10-ND	Pot. Digital 10K, Quad 256 Position*	24-SOIC	3.74	2.99	2.33
AD5204BRUZ50-ND	Pot. Digital 50K, Quad 256 Position*	24-TSSOP	3.74	2.99	2.33
AD5206BN10-ND	Pot. Digital 6-Channel 256 Position	24-Dip	4.79	3.84	2.99
AD5206BRUZ10-ND	Pot. Digital 6-Channel 256 Position*	24-TSSOP	4.79	3.84	2.99
AD5207BRUZ100-ND	Pot. Digital Dual 256 Position*	14-TSSOP	2.61	2.09	1.63
AD5220BNZ10-ND	Pot. Digital 10K, 128 Position*	8-Dip	2.30	1.84	1.43
AD5220BRZ10-ND	Pot. Digital 10K, 128 Position*	8-SOIC	2.48	1.98	1.49
AD5222BR1M-ND	Pot. Digital Dual 128 Position	14-SOIC	2.08	1.66	1.25
AD5222BRZ10-ND	Pot. Digital Dual 128 Position*	14-SOIC	2.20	1.76	1.32
AD5227BUJZ10RL7CT-ND	Pot. Digital Up/Down 10K*	TSOT-23-8	1.08	.90	.72
AD5227BUJZ10RL7TR-ND	Pot. Digital Up/Down 10K*	TSOT-23-8	1404.00/3,000		
AD5227BUJZ100RLCT-ND	Pot. Digital Up/Down 100K*	TSOT-23-8	1.08	.90	.72
AD5227BUJZ100RLTR-ND	Pot. Digital Up/Down 100K*	TSOT-23-8	1404.00/3,000		
AD5228BUJZ10RL7CT-ND	Pot. Digital Up/Down 10K*	TSOT-23-8	1.02	.85	.68
AD5228BUJZ10RL7TR-ND	Pot. Digital Up/Down 10K*	TSOT-23-8	1326.00/3,000		
AD5228BUJZ100RLCT-ND	Pot. Digital Up/Down 100K*	TSOT-23-8	1.02	.85	.68
AD5228BUJZ100RLTR-ND	Pot. Digital Up/Down 100K*	TSOT-23-8	1326.00/3,000		
AD5231BRUZ10-ND	Pot. Digital 10K, 1024 Position*	16-TSSOP	4.86	3.89	3.03
AD5231BRUZ50-ND	Pot. Digital 50K, 1024 Position*	16-TSSOP	4.86	3.89	3.03
AD5231BRUZ100-ND	Pot. Digital 100K, 1024 Position*	16-TSSOP	4.86	3.89	3.03
AD5232BRUZ10-ND	Pot. Digital Dual 256 Position*	16-TSSOP	5.90	4.72	3.99
AD5233BRU100-ND	Pot. Quad 100K, 64 Position	24-TSSOP	6.77	5.42	4.22
AD5233BRUZ50-ND	Pot. Quad 50K, 64 Position*	24-TSSOP	5.48	4.39	3.70
AD5235BRUZ25-ND	Pot. Dual 25K, 1024 Position*	16-TSSOP	7.72	6.18	5.22
AD5235BRUZ250-ND	Pot. Dual 250K, 1024 Position*	16-TSSOP	7.72	6.18	5.22
AD5241BRUZ10-ND	Pot. Digital I^{2}C, 256 Position*	14-TSSOP	2.27	1.82	1.42
AD5241BRZ1M-ND	Pot. Digital I^{2}C, 256 Position*	14-SOIC	2.27	1.82	1.42
AD5241BRZ10-ND	Pot. Digital I^{2}C, 256 Position*	14-SOIC	2.27	1.82	1.42
AD5242-EVAL-ND	Evaluation Board for AD5242	—	67.50	—	—
AD5242BRU10-ND	Pot. Digital Dual 10K, 256 Position	16-TSSOP	3.44	2.76	2.15
AD5242BRU100RL7CT-ND	Pot. Digital Dual 100K, 256 Position	16-TSSOP	3.44	2.76	2.15
AD5242BRU100RL7TR-ND	Pot. Digital Dual 100K, 256 Position	16-TSSOP	1950.75/1,000		
AD5242BRUZ1M-ND	Pot. Digital Dual 256 Position*	16-TSSOP	3.13	2.51	1.95
AD5242BRUZ10-ND	Pot. Digital Dual 10K, 256 Position*	16-TSSOP	3.13	2.51	1.95
AD5242BRUZ100-ND	Pot. Digital Dual 100K, 256 Position*	16-TSSOP	3.13	2.51	1.95
AD5242BRUZ100-RL7CT-ND	Pot. Digital Dual 100K, 256 Position*	16-TSSOP	3.13	2.51	1.95
AD5242BRUZ100-RL7TR-ND	Pot. Digital Dual 100K, 256 Position*	16-TSSOP	1772.25/1,000		
AD5242BRZ1M-ND	Pot. Digital Dual 256 Position*	16-SOIC	3.13	2.51	1.95
AD5242BRZ10-ND	Pot. Digital Dual 10K, 256 Position*	16-SOIC	3.13	2.51	1.95
AD5242BRZ100-ND	Pot. Digital Dual 100K, 256 Position*	16-SOIC	3.13	2.51	1.95
AD5243BRM10-ND	Pot. Digital Dual 10K I^{2}C	10-MSOP	3.03	2.42	1.82
AD5243BRM50-ND	Pot. Digital Dual 50K I^{2}C	10-MSOP	2.72	2.18	1.70
AD5243BRM100-ND	Pot. Digital Dual 100K I^{2}C	10-MSOP	2.72	2.18	1.70
AD5243BRMZ2.5-ND	Pot. Digital Dual 2.5K I^{2}C*	10-MSOP	2.48	1.98	1.54
AD5243BRMZ10-ND	Pot. Digital Dual 10K I^{2}C*	10-MSOP	2.48	1.98	1.54
AD5243BRMZ50-ND	Pot. Digital Dual 50K I^{2}C*	10-MSOP	2.48	1.98	1.54
AD5243BRMZ100-ND	Pot. Digital Dual 100K I^{2}C*	10-MSOP	2.48	1.98	1.54
AD5245BRJZ5-RL7CT-ND	Pot. Digital 5K, 256 Position*	SOT-23-8	1.75	1.40	1.05
AD5245BRJZ5-RL7TR-ND	Pot. Digital 5K, 256 Position*	SOT-23-8	2688.00/3,000		
AD5245BRJZ10-R2CT-ND	Pot. Digital 10K, 256 Position*	SOT-23-8	2.30	1.84	1.38
AD5245BRJZ10-R2TR-ND	Pot. Digital 10K, 256 Position*	SOT-23-8	322.00/250		
AD5245BRJZ50-R2CT-ND	Pot. Digital 50K, 256 Position*	SOT-23-8	2.30	1.84	1.38
AD5245BRJZ50-R2TR-ND	Pot. Digital 50K, 256 Position*	SOT-23-8	322.00/250		
AD5245BRJZ100-R2CT-ND	Pot. Digital 100K, 256 Position*	SOT-23-8	2.30	1.84	1.38
AD5245BRJZ100-R2TR-ND	Pot. Digital 100K, 256 Position*	SOT-23-8	322.00/250		
AD5246BKS5-R2CT-ND	Pot. Digital 5K, 128 Position	SC70-6	1.93	1.54	1.16
AD5246BKSZ5-RL7CT-ND	Pot. Digital 5K, 128 Position*	SC70-6	1.23	.98	.74
AD5246BKSZ5-RL7TR-ND	Pot. Digital 5K, 128 Position*	SC70-6	1911.00/3,000		

* ***RoHS Compliant***

(Continued)

ANALOG DEVICES Digi-Reel® DIGITAL POTENTIOMETERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD5246BKSZ10-RL7CT-ND	Pot. Digital 10K, 128 Position*	SC70-6	1.23	.98	.74
AD5246BKSZ10-RL7TR-ND	Pot. Digital 10K, 128 Position*	SC70-6	1911.00/3,000		
AD5246BKSZ50-RL7CT-ND	Pot. Digital 50K, 128 Position*	SC70-6	1.23	.98	.74
AD5246BKSZ50-RL7TR-ND	Pot. Digital 50K, 128 Position*	SC70-6	1911.00/3,000		
AD5246BKSZ100RLCT-ND	Pot. Digital 100K, 128 Position*	SC70-6	1.23	.98	.74
AD5246BKSZ100RLTR-ND	Pot. Digital 100K, 128 Position*	SC70-6	1911.00/3,000		
AD5247BKSZ5-RL7CT-ND	Pot. Digital 5K, 128 Position*	SC70-6	1.23	.98	.74
AD5247BKSZ5-RL7TR-ND	Pot. Digital 5K, 128 Position*	SC70-6	1911.00/3,000		
AD5247BKSZ10-RL7CT-ND	Pot. Digital 10K, 128 Position*	SC70-6	1.23	.98	.74
AD5247BKSZ10-RL7TR-ND	Pot. Digital 10K, 128 Position*	SC70-6	1911.00/3,000		
AD5247BKSZ50-RL7CT-ND	Pot. Digital 50K, 128 Position*	SC70-6	1.23	.98	.74
AD5247BKSZ50-RL7TR-ND	Pot. Digital 50K, 128 Position*	SC70-6	1911.00/3,000		
AD5247BKSZ100-RL7CT-ND	Pot. Digital 100K, 128 Position*	SC70-6	1.23	.98	.74
AD5247BKSZ100-RL7TR-ND	Pot. Digital 100K, 128 Position*	SC70-6	1911.00/3,000		
AD5248BRMZ2.5-ND	Pot. Digital Dual 2.5K I^{2}C*	10-MSOP	2.48	1.98	1.54
AD5248BRM10-ND	Pot. Digital Dual 10K I^{2}C	10-MSOP	2.72	2.18	1.70
AD5248BRMZ10-ND	Pot. Digital Dual 10K I^{2}C*	10-MSOP	2.48	1.98	1.54
AD5248BRM50-ND	Pot. Digital Dual 50K I^{2}C	10-MSOP	3.03	2.42	1.82
AD5248BRMZ50-ND	Pot. Digital Dual 50K I^{2}C*	10-MSOP	2.48	1.98	1.54
AD5248BRMZ100-ND	Pot. Digital Dual 100K I^{2}C*	10-MSOP	2.48	1.98	1.54
AD5252BRUZ1-ND	Pot. Digital Dual 1K, 256 Position*	14-TSSOP	3.96	3.17	2.47
AD5252BRUZ10-ND	Pot. Digital Dual 10K, 256 Position*	14-TSSOP	3.96	3.17	2.47
AD5252BRUZ100-ND	Pot. Digital Dual 100K, 256 Position*	14-TSSOP	3.96	3.17	2.47
AD5253BRU1-ND	Pot. Digital Quad 1K, 64 Position	20-TSSOP	6.75	5.40	4.20
AD5253BRU10-ND	Pot. Digital Quad 10K, 64 Position	20-TSSOP	6.75	5.40	4.20
AD5254BRUZ1-ND	Pot. Digital Quad 1K, 256 Position*	20-TSSOP	5.66	4.53	3.83
AD5254BRUZ10-ND	Pot. Digital Quad 10K, 256 Position*	20-TSSOP	5.66	4.53	3.83
AD5254BRUZ100-ND	Pot. Digital Quad 100K, 256 Position*	20-TSSOP	5.66	4.53	3.83
AD5255BRU25-ND	Pot. Digital 25K, 3-Channel	24-TSSOP	12.38	9.91	8.36
AD5255BRU250-ND	Pot. Digital 250K, 3-Channel	24-TSSOP	12.38	9.91	8.36
AD5258BRMZ1-ND	Pot. Digital 1K, 64 Position*	10-MSOP	1.60	1.28	.96
AD5258BRMZ10-ND	Pot. Digital 10K, 64 Position*	10-MSOP	1.60	1.28	.96
AD5258BRMZ50-ND	Pot. Digital 50K, 64 Position*	10-MSOP	1.60	1.28	.96
AD5258BRMZ100-ND	Pot. Digital 100K, 64 Position*	10-MSOP	1.60	1.28	.96
AD5259BRMZ5-ND	Pot. Digital 5K, 256 Position*	10-MSOP	2.48	1.98	1.49
AD5259BRMZ10-ND	Pot. Digital 10K, 256 Position*	10-MSOP	2.48	1.98	1.49
AD5259BRMZ50-ND	Pot. Digital 50K, 256 Position*	10-MSOP	2.48	1.98	1.49
AD5259BRMZ100-ND	Pot. Digital 100K, 256 Position*	10-MSOP	2.48	1.98	1.49
AD5259EVAL-ND	Evaluation Board for AD5259	—	45.00	—	—
AD5260BRUZ20-ND	Pot. Digital 20K, 256 Position*	14-TSSOP	4.43	3.55	2.76
AD5260BRUZ50-ND	Pot. Digital 50K, 256 Position*	14-TSSOP	4.43	3.55	2.76
AD5260BRUZ200-ND	Pot. Digital 200K, 256 Position*	14-TSSOP	4.43	3.55	2.76
AD5262BRUZ20-ND	Pot. Dual 20K, 256 Position*	16-TSSOP	4.86	3.89	3.03
AD5262BRUZ50-ND	Pot. Dual 50K, 256 Position*	16-TSSOP	4.86	3.89	3.03
AD5262BRUZ200-ND	Pot. Dual 200K, 256 Position*	16-TSSOP	4.86	3.89	3.03
AD5263BRUZ20-ND	Pot. Quad 20K, 256 Position*	24-TSSOP	5.66	4.53	3.83
AD5263BRUZ50-ND	Pot. Quad 50K, 256 Position*	24-TSSOP	5.66	4.53	3.83
AD5263BRUZ200-ND	Pot. Quad 200K, 256 Position*	24-TSSOP	5.66	4.53	3.83
AD5273BRJ50-R2CT-ND	Pot. Digital 50K, 64 Position	SOT-23-8	1.88	1.50	1.13
AD5273BRJZ10-R7CT-ND	Pot. Digital 10K, 64 Position*	SOT-23-8	1.88	1.50	1.13
AD5273BRJZ10-R7TR-ND	Pot. Digital 10K, 64 Position*	SOT-23-8	2880.00/3,000		
AD5280BRUZ20-ND	Pot. Digital 20K, 256 Position*	14-TSSOP	4.43	3.55	2.76
AD5280BRU50-ND	Pot. Digital 50K, 256 Position	14-TSSOP	4.88	3.91	3.04
AD5280BRUZ50-ND	Pot. Digital 50K, 256 Position*	14-TSSOP	4.43	3.55	2.76
AD5280BRU200-ND	Pot. Digital 200K, 256 Position	14-TSSOP	4.88	3.91	3.04
AD5280BRUZ200-ND	Pot. Digital 200K, 256 Position*	14-TSSOP	4.43	3.55	2.76
AD5282BRUZ20-ND	Dual Pot. 20K, 256 Position*	16-TSSOP	4.86	3.89	3.03
AD5282BRUZ50-ND	Dual Pot. 50K, 256 Position*	16-TSSOP	4.86	3.89	3.03
AD5282BRUZ200-ND	Dual Pot. 200K, 256 Position*	16-TSSOP	4.86	3.89	3.03
AD5290YRMZ10-ND	Pot. Digital 10K, 256 Position*	10-MSOP	4.86	3.89	3.03
AD5290YRMZ50-ND	Pot. Digital 50K, 256 Position*	10-MSOP	4.86	3.89	3.03
AD5290YRMZ100-ND	Pot. Digital 100K, 256 Position*	10-MSOP	4.86	3.89	3.03
AD7376ARUZ10-R7CT-ND	Pot. Digital 10K, 128 Position*	14-TSSOP	8.40	7.70	7.00
AD7376ARUZ10-R7TR-ND	Pot. Digital 10K, 128 Position*	14-TSSOP	3500.00/1,000		
AD7376ARUZ50-ND	Pot. Digital 50K, 128 Position*	14-TSSOP	6.03	4.83	3.76
AD7376ARUZ100-R7CT-ND	Pot. Digital 100K, 128 Position*	14-TSSOP	5.49	4.40	3.42
AD7376ARUZ100-R7TR-ND	Pot. Digital 100K, 128 Position*	14-TSSOP	3417.00/1,000		
AD7376ARWZ10-ND	Pot. Digital 10K, 128 Position*	16-SOIC	6.03	4.83	3.76
AD7376ARWZ50-ND	Pot. Digital 50K, 128 Position*	16-SOIC	6.03	4.83	3.76
AD7376ARWZ100-ND	Pot. Digital 100K, 128 Position*	16-SOIC	6.03	4.83	3.76
AD8400AR50-ND	Pot. Digital 8-Bit, 50K, 1-Channel	8-SOIC	2.75	2.20	1.71
AD8400ARZ50-ND	Pot. Digital 8-Bit, 50K, 1-Channel*	8-SOIC	2.50	2.00	1.56
AD8400ARZ1-ND	Pot. Digital 8-Bit, 1K, 1-Channel*	8-SOIC	2.50	2.00	1.56
AD8400ARZ10-ND	Pot. Digital 8-Bit, 10K, 1-Channel*	8-SOIC	2.50	2.00	1.56
AD8400ARZ100-ND	Pot. Digital 8-Bit, 100K, 1-Channel*	8-SOIC	2.50	2.00	1.56
AD8402AN10-ND	Pot. Digital 8-Bit, 10K, 2-Channel	14-Dip	3.89	3.12	2.43
AD8402ARUZ1-ND	Pot. Digital 8-Bit, 1K, 2-Channel*	14-TSSOP	3.78	3.03	2.36
AD8402ARUZ10-ND	Pot. Digital 8-Bit, 10K, 2-Channel*	14-TSSOP	3.78	3.03	2.36
AD8402ARZ1-ND	Pot. Digital 8-Bit, 1K, 2-Channel*	14-SOIC	3.78	3.03	2.36
AD8402ARZ10-ND	Pot. Digital 8-Bit, 10K, 2-Channel*	14-SOIC	3.78	3.03	2.36
AD8402ARZ50-ND	Pot. Digital 8-Bit, 50K, 2-Channel*	14-SOIC	3.78	3.03	2.36
AD8402ARZ100-ND	Pot. Digital 8-Bit, 100K, 2-Channel*	14-SOIC	3.78	3.03	2.36
AD8403ARUZ1-ND	Pot. Digital 8-Bit, 1K, 4-Channel*	24-TSSOP	5.60	4.48	3.78
AD8403ARUZ10-ND	Pot. Digital 8-Bit, 10K, 4-Channel*	24-TSSOP	5.60	4.48	3.78
AD8403ARUZ50-ND	Pot. Digital 8-Bit, 50K, 4-Channel*	24-TSSOP	5.66	4.53	3.83
AD8403ARUZ100-ND	Pot. Digital 8-Bit, 100K, 4-Channel*	24-TSSOP	5.66	4.53	3.83
AD8403ARZ1-ND	Pot. Digital 8-Bit, 1K, 4-Channel*	24-SOIC	5.60	4.48	3.78
AD8403ARZ10-ND	Pot. Digital 8-Bit, 10K, 4-Channel*	24-SOIC	5.60	4.48	3.78
D8403ARZ100-ND	Pot. Digital 8-Bit, 100K, 4-Channel*	24-SOIC	5.60	4.48	3.78

Rheostat

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADN2850BCPZ25-ND	Pot. Digital Dual 25K 10-Bit*	16-LFCSP	6.43	5.79	5.14
ADN2860ACPZ250RCT-ND	Pot. Digital 250K, 3-Channel*	24-LFCSP	9.83	8.85	7.85

ANALOG DEVICES DISPLAY AND VIDEO CONVERTERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD723ARUZ-ND	RGB to NTSC/PAL Encoder*	28-TSSOP	7.62	6.10	5.15
AD724JRZ-ND	RGB to NTSC/PAL Encoder*	16-SOIC	11.21	10.10	8.96
AD725ARZ-ND	RGB to NTSC/PAL Encoder*	16-SOIC	9.80	7.84	6.62
ADV202BBCZ-150-ND	JPEG2000 Video Codec*	144-CSBGA	70.59	65.89	61.18
ADV7180BCPZ-ND	10-Bit 4x Oversampling SDTV Video Decoder*	40-LFCSP	13.11	11.81	10.47
ADV7180BSTZ-ND	10-Bit 4x Oversampling SDTV Video Decoder*	64-LQFP	13.78	12.41	11.00
EVAL-ADV7180LFEBZ-ND	Evaluation Board for ADV7180*	—	200.00	—	—
ADV7181BBCPZ-ND	Multiformat SDTV Video Decoder*	64-LFCSP	13.33	12.00	10.64
ADV7181BBSTZ-ND	Multiformat SDTV Video Decoder*	64-LQFP	13.33	12.00	10.64
ADV7181BCP-ND	Multiformat SDTV Video Decoder	64-LFCSP	13.33	12.00	10.64
ADV7183BBSTZ-ND	Multiformat SDTV Video Decoder*	80-LQFP	15.93	14.34	12.72
ADV7189BBSTZ-ND	Multiformat SDTV Video Decoder*	80-LQFP	37.88	35.35	32.83
ADV7183BKSTZ-ND	Multiformat SDTV Video Decoder*	80-LQFP	15.01	13.52	11.99
EVAL-ADV7183BEBM-ND	Evaluation Board for ADV7183	—	374.06	—	—
ADV7189BKSTZ-ND	Multiformat SDTV Video Decoder*	80-LQFP	34.43	32.13	29.84
ADV7189KST-ND	Multiformat SDTV Video Decoder	80-LQFP	34.43	32.13	29.84
ADV7194KSTZ-ND	Video Encoder EXT-10*	80-LQFP	44.93	41.93	38.94
ADVFC32BH-ND	Voltage/Freq. and Freq./Volt. Converter -25°C~85°C	TO-100	13.26	11.94	10.59
ADVFC32KNZ-ND	Voltage/Freq. and Freq./Volt. Converter 0°C~70°C*	14-Dip	10.21	9.20	8.16
ADVFC32SH-ND	Voltage/Freq. and Freq./Volt. Converter -55°C~125°C	TO-100	17.85	16.66	15.47

Analog

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD9882AKSTZ-140-ND	Dual Interface for Flat Panel Display*	100-LQFP	12.89	11.61	10.30
AD9882KST-100-ND	Analog Interface Dual	100-LQFP	12.30	11.07	9.82
AD9882KSTZ-100-ND	Analog Interface Dual*	100-LQFP	11.18	10.07	8.93
AD9882KSTZ-140-ND	Analog Interface Dual*	100-LQFP	12.89	11.61	10.30
AD9883ABSTZ-110-ND	Flat Panel Interface*	80-LQFP	12.03	10.83	9.61
AD9883AKSTZ-140-ND	Flat Panel Interface*	80-LQFP	7.73	6.96	6.18
AD9884AKSZ-140-ND	Analog Interface, 140Msps*	128-MQFP	17.03	15.89	14.76
AD9887AKS-100-ND	Analog Interface Dual	160-MQFP	19.11	17.84	16.57
AD9887AKSZ-170-ND	Analog Interface Dual*	160-MQFP	26.31	24.56	22.81
AD9888KSZ-140-ND	Analog Interface, 140Msps*	128-MQFP	15.48	13.94	12.36
AD9888KSZ-170-ND	Analog Interface, 170Msps*	128-MQFP	18.57	17.34	16.10
AD9888KSZ-205-ND	Analog Interface, 205Msps*	128-MQFP	26.31	24.56	22.81

ANALOG DEVICES EVALUATION BOARDS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8311-EVAL-ND	Evaluation Board for AD8311	—	148.50	—	—
AD8364-EVAL-500-ND	Evaluation Board for AD8364	—	148.50	—	—
AD9211-300EBZ-ND	Evaluation Board for AD9211-300*	—	215.00	—	—
AD9985A/PCB-ND	Evaluation Board for AD9985A*	—	376.25	—	—
EVAL-110VAC-US-ND	Evaluation Board for 110VAC	—	22.50	—	—
EVAL-110VAC-USZ-ND	Evaluation Board for 110VAC*	—	22.50	—	—
EVAL-220VAC-EUZ-ND	Evaluation Board for 220VAC*	—	22.50	—	—
EVAL-AD7938-6CB-ND	Evaluation Board for AD7938	—	140.63	—	—
EVAL-ADE7755EB-ND	Evaluation Board for ADE7755	—	187.50	—	—
EVAL-ADV7195EB-ND	Evaluation Board for ADV7195	—	187.50	—	—
EVAL-CONTROL BRD3Z-ND	Evaluation Board Control*	—	250.00	—	—

ANALOG DEVICES Digi-Reel® FIBER OPTICS AND NETWORKS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD809BR-ND	Synth. Frequency 155.52MHz	16-SOIC	9.08	7.27	6.13
ADN2805ACPZ-ND	Clock/Data Recovery 1.25Gbps* ***NEW!***	32-LFCSP	15.26	14.24	13.23
ADN2806ACPZ-ND	Clock/Data Recovery 622Mbps*	32-LFCSP	15.75	14.70	13.65
ADN2811ACP-CML-ND	Clock/Data Recovery	48-LFCSP	55.47	51.78	48.08
ADN2812ACPZ-ND	Clock/Data Recovery with Amp*	32-LFCSP	92.84	86.65	80.46
ADN2813ACPZ-ND	Clock/Data Recovery, Continuous Rate 10Mb/s to 1.25Gb/s*	32-LFCSP	33.65	31.41	29.16
ADN2816ACPZ-ND	Clock/Data Recovery, Continuous Rate 10Mb/s to 675Mb/s*	32-LFCSP	17.85	16.66	15.47
ADN2817ACPZ-ND	Clock/Data Recovery, Continuous Rate 10Mbps to 2.7Gbps*	32-LFCSP	75.20	70.19	65.17
ADN2819ACP-CML-ND	Clock/Data Recovery	48-LFCSP	78.98	73.71	68.45
ADN2830ACPZ32-ND	Continuous Wave Laser Average Power Controller*	32-LFCSP	15.99	14.93	13.86
ADN2841ACPZ-32-ND	Driver Laser Diode 5V*	32-LFCSP	24.06	22.46	20.86
ADN2847ACP-48-ND	Driver Laser Diode 3.3V	48-LFCSP	15.98	14.39	12.76
ADN2848ACPZ-32-ND	Driver Laser Diode 3.3V*	32-LFCSP	9.13	8.22	7.29
ADN2870ACPZ-ND	Driver Laser Diode 3.3V*	24-LFCSP	9.46	7.57	6.39
ADN2890ACPZ-RL7CT-ND	3.3V, 2.7Gbps Limiting Amp*	16-LFCSP	8.00	6.40	5.40
ADN2890ACPZ-RL7TR-ND	3.3V, 2.7Gbps Limiting Amp*	16-LFCSP	7500.00/1,500		
ADN2891ACPZ-RL7CT-ND	3.3V, 3.2Gbps Limiting Amp*	16-LFCSP	8.00	6.40	5.40
ADN2891ACPZ-RL7TR-ND	3.3V, 3.2Gbps Limiting Amp*	16-LFCSP	7500.00/1,500		

ANALOG DEVICES Digi-Reel® HARDWARE MONITORS AND THERMAL MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADM1060ARUZ-ND	Supervisor/Sequencer 7-Channel*	28-TSSOP	11.91	10.73	9.51
ADM1062ACPZ-ND	Super Sequencer™ with Margining Control and Temperature Monitoring*	40-LFCSP	16.33	14.70	13.04
ADM1062ASUZ-ND	Super Sequencer™ with Margining Control and Temperature Monitoring*	48-TQFP	14.99	13.50	11.97
EVAL-ADM1062LFEB-ND	Evaluation Board for ADM1062LF	—	292.50	—	—
EVAL-ADM1062LFEBZ-ND	Evaluation Board for ADM1062LF*	—	299.99	—	—
EVAL-ADM1063TQEB-ND	Evaluation Board for ADM1063	—	281.25	—	—
ADM1064ACPZ-ND	Super Sequencer™ with Voltage Readback ADC*	40-LFCSP	14.33	12.90	11.44
ADM1064ASUZ-ND	Super Sequencer™ with Voltage Readback ADC*	48-TQFP	14.33	12.90	11.44
ADM1065ASUZ-ND	Super Sequencer™/Monitor*	48-TQFP	11.00	9.90	8.78
EVAL-ADM1064TQEB-ND	Evaluation Board for ADM1064	—	281.25	—	—
ADM1066ASUZ-ND	Super Sequencer™ with Margining Control and Auxiliary ADC Input*	48-TQFP	15.49	13.95	12.37
EVAL-ADM1066LFEB-ND	Evaluation Board for ADM1066	—	281.25	—	—
ADM1067ASU-ND	Super Sequencer™ with Open-Loop Margining DACs	48-TQFP	10.46	9.42	8.36
ADM1068ASTZ-ND	Super Sequencer™ and Monitor*	32-LQFP	8.60	6.88	5.81
ADM1069ASTZ-ND	Super Sequencer™ with Margining Control*	32-LQFP	9.30	7.44	6.28
ADM1085AKSZ-REEL7CT-ND	Simple Sequencer™*	SC70-6	1.02	.85	.68

* ***RoHS Compliant***

(Continued)

ANALOG DEVICES Digi Reel® HARDWARE MONITORS AND THERMAL MANAGEMENT *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADM1085AKSZ-REEL7TR-ND	Simple Sequencer™*	SC70-6	1326.00/3,000		
ADM1086AKSZ-REEL7CT-ND	Simple Sequencer™*	SC70-6	1.02	.85	.68
ADM1086AKSZ-REEL7TR-ND	Simple Sequencer™*	SC70-6	1326.00/3,000		
ADM1087AKSZ-REEL7CT-ND	Simple Sequencer™*	SC70-6	1.02	.85	.68
ADM1087AKSZ-REEL7TR-ND	Simple Sequencer™*	SC70-6	1326.00/3,000		
EVAL-ADM1087EB-ND	Evaluation Board for ADM1087*	—	140.63	—	—
ADM1184ARMZ-ND	Quad Voltage Monitor* ***NEW!***	10-MSOP	5.51	4.41	3.43
ADM1185ARMZ-1REEL7CT-ND	Quad Voltage Monitor*	10-MSOP	3.83	3.06	2.38
ADM1185ARMZ-1REEL7TR-ND	Quad Voltage Monitor*	10-MSOP	2167.50/1,000		
EVAL-ADM1185EBZ-ND	Evaluation Board for ADM1185*	—	156.25	—	—
ADM6819ARJZ-REEL7CT-ND	FET Drive Simple Sequencer™*	SOT-23-6	2.32	1.86	1.45
ADM6819ARJZ-REEL7TR-ND	FET Drive Simple Sequencer™*	SOT-23-6	3894.00/3,000		
ADM6820ARJZ-REEL7CT-ND	FET Drive Simple Sequencer™*	SOT-23-6	2.32	1.86	1.45
ADM6820ARJZ-REEL7TR-ND	FET Drive Simple Sequencer™*	SOT-23-6	3894.00/3,000		
ADM8843ACPZ-REEL7CT-ND	4 White LED Backlight Driver*	16-LFCSP	1.47	1.23	.98
ADM8843ACPZ-REEL7TR-ND	4 White LED Backlight Driver*	16-LFCSP	977.55/1,500		
ADM8845ACPZ-REEL7CT-ND	Charge Pump Driver for LCD White LED Backlights*	16-LFCSP	1.75	1.40	1.05
ADM8845ACPZ-REEL7TR-ND	Charge Pump Driver for LCD White LED Backlights*	16-LFCSP	1365.00/1,500		
ADM8845EB-EVALZ-ND	Evaluation Board for ADM8845*	—	150.00	—	—
ADN8830ACPZ-ND	Thermoelectric Cooler Controller*	32-LFCSP	10.83	9.75	8.65
ADN8831ACPZ-REEL7CT-ND	Thermoelectric Cooler Controller*	32-LFCSP	11.66	10.50	9.31
ADN8831ACPZ-REEL7TR-ND	Thermoelectric Cooler Controller*	32-LFCSP	12967.50/1,500		
ADT7316ARQ-ND	Digital Temperature Sensor Quad DAC	16-QSOP	12.81	11.54	10.23
ADT7317ARQ-ND	Digital Temperature Sensor Quad DAC	16-QSOP	8.34	6.68	5.63
ADT7318ARQ-ND	Digital Temperature Sensor Quad DAC	16-QSOP	5.99	4.79	3.73
ADT7411ARQZ-ND	Digital Temperature Sensor 8-Channel ADC*	16-QSOP	5.04	4.04	3.41
ADT7460ARQ-ND	Remote Thermal/Fan Controller	16-QSOP	5.60	4.48	3.78
EVAL-ADT7463EB-ND	Evaluation Board for ADT7463	—	195.00	—	—
ADT7516ARQZ-ND	Temperature Sensor Quad DAC*	16-QSOP	14.68	13.22	11.72
ADT7517ARQ-ND	Temperature Sensor Quad DAC	16-QSOP	11.54	9.24	7.79

ANALOG DEVICES Digi Reel® INTERFACE

Analog

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAT01GH-ND	Trans Matched Mono Dual	TO-78	11.22	8.98	7.58
MAT02EH-ND	Trans Matched Mono Dual Low Noise	TO-78	16.55	15.45	14.34
MAT02EHZ-ND	Trans Matched Mono Dual Low Noise* ***NEW!***	TO-78	16.55	15.45	14.34
MAT02FHZ-ND	Trans Matched Mono Dual Low Noise* ***NEW!***	TO-78	9.46	8.52	7.56
MAT03EHZ-ND	Trans Matched Dual PNP*	TO-78	19.85	18.53	17.20
MAT03FHZ-ND	Trans Matched Dual PNP*	TO-78	11.55	10.40	9.22
MAT04FPZ-ND	Trans Matched Mono Quad*	14-Dip	7.44	5.96	5.03
MAT04FSZ-ND	Trans Matched Mono Quad*	14-SOIC	7.44	5.96	5.03

Audio/Video

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PKD01EPZ-ND	Mono Peak Detector Reset/Hold*	14-Dip	14.28	12.86	11.40
PKD01FPZ-ND	Mono Peak Detector Reset/Hold*	14-Dip	11.88	10.70	9.49

Digital Isolators

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD260BND-1-ND	Logic Isolator 3.5kV, 1:4 In/Out	22-Dip	78.56	73.32	68.09
AD260BND-2-ND	Logic Isolator 3.5kV, 2:3 In/Out	22-Dip	78.56	73.32	68.09

Multiplexer

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7501JNZ-ND	Mux Analog 8-Channel*	16-Dip	11.38	10.25	9.09
AD7501KNZ-ND	Mux Analog 8-Channel*	16-Dip	11.93	10.74	9.53
AD7503JN-ND	Mux Analog 8-Channel	16-Dip	11.90	10.71	9.50
AD7503KN-ND	Mux Analog 8-Channel	16-Dip	12.48	11.24	9.97
AD8170ARZ-ND	Mux 250MHz, 10nS, 2:1 with Amp*	8-SOIC	5.00	4.00	3.11
AD8174ANZ-ND	Mux 250MHz, 10nS, 4:1 with Amp*	14-Dip	6.86	5.49	4.64
AD8174ARZ-ND	Mux 250MHz, 10nS, 4:1 with Amp*	14-SOIC	6.86	5.49	4.64
AD8180ARZ-ND	Mux Switching 2:1*	8-SOIC	4.30	3.44	2.68
AD8182AR-ND	Mux Switching Dual 2:1	14-SOIC	5.98	4.79	4.04
AD8182ARZ-ND	Mux Switching Dual 2:1*	14-SOIC	5.44	4.36	3.68
AD8183ARU-ND	Mux Switching Triple	24-TSSOP	6.96	5.57	4.70
AD8184ANZ-ND	Video Mux 4:1, 700MHz*	14-Dip	5.02	4.02	3.13
AD8184AR-REEL7CT-ND	Video Mux 4:1, 700MHz	14-SOIC	5.51	4.41	3.43
AD8184ARZ-ND	Video Mux 4:1, 700MHz*	14-SOIC	5.02	4.02	3.13
AD8185ARU-ND	Triple Switching Mux	24-TSSOP	6.96	5.57	4.70
AD8185ARUZ-ND	Triple Switching Mux*	24-TSSOP	6.32	5.06	4.27
AD8186ARUZ-ND	Triple Mux 2:1, 480MHz*	24-TSSOP	6.10	4.88	4.12
AD8188ARUZ-ND	Triple Mux 2:1, 350MHz*	24-TSSOP	4.84	3.87	3.01
AD8189ARUZ-ND	Triple Mux 2:1, 350MHz*	24-TSSOP	4.84	3.87	3.01
ADG406BNZ-ND	Mux 16-Channel High Performance*	28-Dip	8.68	7.82	6.93
ADG406BPZ-ND	Mux 16-Channel High Performance*	28-PLCC	9.00	8.10	7.19
ADG406BP-REELCT-ND	Mux 16-Channel High Performance	28-PLCC	9.00	8.10	7.19
ADG407BNZ-ND	Mux Analog 8-Channel High Performance*	28-Dip	9.35	8.42	7.47
ADG407BPZ-ND	Mux Analog 8-Channel High Performance*	28-PLCC	9.68	8.72	7.73
ADG408BNZ-ND	Mux Analog 8-Channel High Performance*	16-Dip	5.42	4.34	3.38
ADG408BRZ-ND	Mux Analog 8-Channel High Performance*	16-SOIC	5.27	4.22	3.28
ADG408BRUZ-ND	Mux Analog 8-Channel High Performance*	16-TSSOP	5.27	4.22	3.28
ADG409BNZ-ND	Mux Dual 4-Channel High Performance*	16-Dip	5.42	4.34	3.38
ADG409BRZ-ND	Mux Dual 4-Channel High Performance*	16-SOIC	5.27	4.22	3.28
ADG426BRSZ-ND	Mux Analog 16-Channel High Performance*	28-SSOP	9.05	8.15	7.23
ADG428BNZ-ND	Mux Analog 8-Channel LC^{2}MOS Latchable, High Performance*	18-Dip	6.54	5.24	4.42
ADG428BRZ-ND	Mux Analog 8-Channel LC^{2}MOS Latchable, High Performance*	18-SOIC	6.34	5.08	4.28
ADG438FBRZ-ND	Mux Analog 8-Channel High Performance*	16-SOIC	7.36	5.89	4.97
ADG439FBRWZ-ND	Mux Analog 4-Channel High Performance*	16-SOIC	7.36	5.89	4.97
ADG439FBRZ-ND	Mux Analog 4-Channel High Performance*	16-SOIC	7.36	5.89	4.97
ADG506AKNZ-ND	Mux Analog Single 16-Channel*	28-Dip	9.38	8.45	7.49
ADG506AKPZ-ND	Mux Analog Single 16-Channel*	28-PLCC	10.55	9.50	8.42
ADG506AKRZ-ND	Mux Analog Single 16-Channel*	28-SOIC	9.11	8.21	7.28
ADG507AKNZ-ND	Mux Analog Dual 8-Channel*	28-Dip	9.36	8.43	7.48
ADG507AKPZ-ND	Mux Analog Dual 8-Channel*	28-PLCC	10.55	9.50	8.42
ADG507AKRUZ-ND	Mux Analog Dual 8-Channel*	28-TSSOP	11.93	10.74	9.53
ADG507AKRZ-ND	Mux Analog Dual 8-Channel*	28-SOIC	9.11	8.21	7.28
ADG507ATQ-ND	Mux Analog Dual 8-Channel	28-CDip	22.95	21.42	19.89
ADG508AKNZ-ND	Mux Analog Single 8-Channel*	16-Dip	5.26	4.21	3.56
ADG508AKR-ND	Mux Analog Single 8-Channel	16-SOIC	5.62	4.50	3.80
ADG508AKR-REEL7CT-ND	Mux Analog Single 8-Channel	16-SOIC	5.62	4.50	3.80
ADG508AKR-REEL7TR-ND	Mux Analog Single 8-Channel	16-SOIC	3513.00/1,000		
ADG508AKRZ-ND	Mux Analog Single 8-Channel*	16-SOIC	5.10	4.08	3.45
ADG508FBNZ-ND	Mux Single 8-Channel Fault-Protected*	16-Dip	6.82	5.46	4.61
ADG508FBRNZ-ND	Mux Single 8-Channel Fault-Protected*	16-SOIC	6.82	5.46	4.61
ADG508FBRWZ-ND	Mux Single 8-Channel Fault-Protected*	16-SOIC	6.62	5.30	4.47
ADG509AKNZ-ND	Mux Analog Dual 4-Channel*	16-Dip	5.00	4.00	3.11
ADG509FBRNZ-ND	Mux Analog Dual 16-Channel Fault-Protected*	16-SOIC	6.82	5.46	4.61
ADG526AKN-ND	Mux Analog Single 16-Channel	28-Dip	10.73	9.66	8.57
ADG526AKNZ-ND	Mux Analog Single 16-Channel*	28-Dip	10.26	9.24	8.20
ADG526AKPZ-ND	Mux Analog Single 16-Channel*	28-PLCC	10.46	9.42	8.36
ADG526AKR-ND	Mux Analog Single 16-Channel	28-SOIC	10.41	9.38	8.32
ADG526AKRZ-ND	Mux Analog Single 16-Channel*	28-SOIC	9.96	8.97	7.96
ADG527AKNZ-ND	Mux Analog Dual 8-Channel*	28-Dip	9.88	8.90	7.89
ADG527AKPZ-ND	Mux Analog Dual 8-Channel*	28-PLCC	10.06	9.06	8.04
ADG528AKNZ-ND	Mux Analog 8-Channel*	18-Dip	7.44	5.96	5.03
ADG528AKP-ND	Mux Analog 8-Channel	20-PLCC	7.92	6.34	5.35
ADG528AKPZ-ND	Mux Analog 8-Channel*	20-PLCC	7.56	6.05	5.11
ADG529AKNZ-ND	Mux Analog Dual 4-Channel*	18-Dip	7.44	5.96	5.03
ADG529AKPZ-ND	Mux Analog Dual 4-Channel*	20-PLCC	7.56	6.05	5.11
ADG604YRUZ-ND	Mux 4-Channel, 2.7V to 5.5V*	14-TSSOP	4.10	3.28	2.55
ADG608BNZ-ND	Mux 8-Channel, 3V to 5V High Performance*	16-Dip	5.33	4.27	3.32
ADG608BRZ-ND	Mux 8-Channel, 3V to 5V High Performance*	16-SOIC	5.18	4.14	3.22
ADG608BRUZ-REEL7CT-ND	Mux 8-Channel, 3V to 5V High Performance*	16-TSSOP	5.18	4.14	3.22
ADG608BRUZ-REEL7TR-ND	Mux 8-Channel, 3V to 5V High Performance*	16-TSSOP	2932.50/1,000		
ADG609BN-ND	Mux Differential 4-Channel, 3V to 5V Precision	16-Dip	5.87	4.70	3.66
ADG609BNZ-ND	Mux Differential 4-Channel, 3V to 5V Precision*	16-Dip	5.33	4.27	3.32
ADG609BRZ-ND	Mux Differential 4-Channel, 3V to 5V Precision*	16-SOIC	5.18	4.14	3.22
ADG609BRUZ-ND	Mux Differential 4-Channel, 3V to 5V Precision*	16-TSSOP	5.18	4.14	3.22
ADG658YRUZ-ND	Mux Single 8-Channel, 3V to 5V*	16-TSSOP	2.25	1.80	1.40
ADG659YRUZ-ND	Mux Dual 8-Channel, 3V to 5V*	16-TSSOP	2.25	1.80	1.40
ADG704BRMZ-ND	Mux 4-Channel, 1.8V to 5.5V*	10-MSOP	2.43	1.95	1.52
ADG706BRUZ-ND	Mux 16-Channel, 1.8V to 5.5V*	28-TSSOP	6.22	4.98	4.20
ADG707BRUZ-ND	Mux 16-Channel, 1.8V to 5.5V*	28-TSSOP	6.22	4.98	4.20
ADG708BRUZ-ND	Mux Single 8-Channel, 1.8V to 5.5V*	16-TSSOP	3.42	2.74	2.13
ADG708CRUZ-ND	Mux Single 8-Channel, 1.8V to 5.5V*	16-TSSOP	4.12	3.30	2.57
ADG709BRUZ-ND	Mux Dual 4-Channel, 1.8V to 5.5V*	16-TSSOP	3.42	2.74	2.13
ADG709BRUZ-REEL7TR-ND	Mux Dual 4-Channel, 1.8V to 5.5V*	16-TSSOP	1938.00/1,000		
ADG709CRUZ-ND	Mux Dual 4-Channel, 1.8V to 5.5V*	16-TSSOP	4.12	3.30	2.57
ADG725BSUZ-ND	Mux SPI 16-Channel, 1.8V to 5.5V*	48-TQFP	9.33	8.40	7.45
ADG726BSUZ-ND	Mux Differential 16-Channel, 1.8V to 5.5V*	48-TQFP	9.16	8.25	7.32
ADG731BSUZ-ND	Mux SPI 32-Channel, 1.8V to 5.5V*	48-TQFP	9.33	8.40	7.45
ADG732BCPZ-ND	Mux Analog 32-Channel, 1.8V to 5.5V*	48-LFCSP	9.16	8.25	7.32
ADG732BSUZ-ND	Mux Single 32-Channel, 1.8V to 5.5V*	48-TQFP	9.16	8.25	7.32
ADG738BRUZ-ND	Mux SPI 8-Channel, 2.7V to 5.5V*	16-TSSOP	4.39	3.51	2.73
ADG758BCPZ-ND	Mux 3-Ohm 8-Channel 1.8V to 5.5V*	20-LFCSP	3.42	2.74	2.13
ADG759BCPZ-ND	Mux Dual 4-Channel, 1.8V to 5.5V*	20-LFCSP	3.42	2.74	2.13
ADG774BRQZ-ND	Mux Quad 200MHz Low Voltage*	16-QSOP	4.32	3.46	2.69
ADG774BRZ-ND	Mux Quad 200MHz Low Voltage*	16-SOIC	4.19	3.35	2.61
ADG1204YCPZ-500RL7CT-ND	Mux Low Capacitance, Low Charge Injection, 4:1 *i*CMOS™*	12-LFCSP	4.61	3.69	2.87
ADG1204YCPZ-500RL7TR-ND	Mux Low Capacitance, Low Charge Injection, 4:1 *i*CMOS™*	12-LFCSP	1332.50/500		
ADG1204YRUZ-ND	Mux Low Capacitance, Low Charge Injection, 4:1 *i*CMOS™*	14-TSSOP	5.00	4.00	3.38
ADG1206YRUZ-ND	Mux Low Capacitance, 16-Channel *i*CMOS™*	28-TSSOP	8.76	7.89	7.00
ADG1207YRUZ-ND	Mux Low Capacitance, 8-Channel *i*CMOS™*	28-TSSOP	8.76	7.89	7.00
ADG1208YCPZ-REEL7CT-ND	Mux Low Capacitance, 8-Channel *i*CMOS™*	16-LFCSP	5.96	4.77	3.71
ADG1208YCPZ-REEL7TR-ND	Mux Low Capacitance, 8-Channel *i*CMOS™*	16-LFCSP	4968.75/1,500		
ADG1208YRUZ-ND	Mux Low Capacitance, 8-Channel *i*CMOS™*	16-TSSOP	6.46	5.17	4.37
ADG1208YRZ-ND	Mux Low Capacitance, 8-Channel *i*CMOS™*	16-SOIC	5.74	4.60	3.88
ADG1209YCPZ-REEL7CT-ND	Mux Low Capacitance, 4-Channel *i*CMOS™*	16-LFCSP	5.96	4.77	3.71
ADG1209YCPZ-REEL7TR-ND	Mux Low Capacitance, 4-Channel *i*CMOS™*	16-LFCSP	4968.75/1,500		
ADG1209YRZ-ND	Mux Low Capacitance, 4-Channel *i*CMOS™*	16-SOIC	5.74	4.60	3.88
ADG1309BRZ-ND	Mux Mono Analog 4-Channel*	16-SOIC	3.98	3.19	2.48
ADG1409YCPZ-REEL7CT-ND	Mux *i*CMOS™ 4-Ohm R_{ON}*	16-LFCSP	5.92	4.74	4.00
ADG1409YCPZ-REEL7TR-ND	Mux *i*CMOS™ 4-Ohm R_{ON}*	16-LFCSP	5550.00/1,500		
ADG1409YRUZ-ND	Mux *i*CMOS™ 4-Ohm R_{ON}*	16-TSSOP	7.22	5.78	4.88
MUX08EPZ-ND	Mux Analog JFET 8-Channel*	16-Dip	10.91	9.83	8.72
MUX08FSZ-ND	Mux Analog JFET 8-Channel*	16-SOIC	9.28	7.43	6.27
SMP18FSZ-ND	Mux In, Octal Sample-Hold*	16-SOIC	12.06	10.86	9.63

Multiplier/Divider

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD532JHZ-ND	Trimmed Multiplier/Divider*	TO-100	25.10	23.43	21.75
AD532SD-ND	Trimmed Multiplier/Divider	14-Dip	88.55	82.65	76.74
AD534JDZ-ND	Trimmed Multiplier/Divider*	14-Dip	32.48	30.31	28.15
AD534JHZ-ND	Trimmed Multiplier/Divider*	TO-100	25.02	23.36	21.69
AD534KD-ND	Trimmed Multiplier/Divider	14-CDip	47.22	44.08	40.93
AD534KHZ-ND	Trimmed Multiplier/Divider*	TO-100	54.32	50.70	47.08
AD534SH-ND	Trimmed Multiplier/Divider	TO-100	102.87	96.02	89.16
AD534TD-ND	Trimmed Multiplier/Divider	14-Dip	156.42	146.00	135.57
AD538ADZ-ND	Multiplier/Divider Real-Time ACU*	18-CDip	43.50	40.60	37.70
AD632ADZ-ND	Precision Multiplier Mono*	14-CDip	36.90	34.44	31.98
AD632AHZ-ND	Internally Trimmed Precision Multiplier*	TO-100	17.19	16.05	14.90
AD632BDZ-ND	Precision Multiplier Mono*	14-CDip	60.50	56.47	52.43
AD633AN-ND	Multiplier Analog	8-Dip	8.18	6.55	5.53
AD633ANZ-ND	Multiplier Analog*	8-Dip	7.80	6.24	5.27
AD633ARZ-ND	Multiplier Analog*	8-SOIC	7.80	6.24	5.27
AD633JN-ND	Multiplier Analog	8-Dip	8.18	6.55	5.53
AD633JNZ-ND	Multiplier Analog*	8-Dip	7.80	6.24	5.27
AD633JRZ-ND	Multiplier Analog*	8-SOIC	7.80	6.24	5.27
AD734AN-ND	Multiplier/Divider 4-Quadrant	14-Dip	20.67	19.30	17.92
AD734ANZ-ND	Multiplier/Divider 4-Quadrant*	14-Dip	19.77	18.46	17.14
AD734AQ-ND	Multiplier/Divider 4-Quadrant	14-Dip	22.74	21.23	19.71
AD734BN-ND	Multiplier/Divider 4-Quadrant	14-Dip	34.97	32.64	30.31
AD734BNZ-ND	Multiplier/Divider 4-Quadrant*	14-Dip	33.44	31.21	28.98
AD834AR-ND	Multiplier 4-Quadrant	8-SOIC	27.84	25.99	24.13
AD834ARZ-ND	Multiplier 4-Quadrant*	8-SOIC	26.63	24.85	23.08
AD834JRZ-ND	Multiplier 4-Quadrant*	8-SOIC	24.98	23.31	21.65
AD835ANZ-ND	Multiplier 4-Quadrant*	8-Dip	15.53	13.98	12.40
AD835ARZ-ND	Multiplier 4-Quadrant*	8-SOIC	15.53	13.98	12.40
MLT04GPZ-ND	Multiplier 4-Quadrant*	18-Dip	18.66	17.42	16.18
MLT04GSZ-ND	Multiplier 4-Quadrant*	18-SOIC	18.66	17.42	16.18

* *RoHS Compliant*

(Continued)

ANALOG DEVICES DigiReel® INTERFACE *(Continued)*

Transmitter/Receiver

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7306ARZ-ND	TX/RX RS-232/RS-422, 5V*	24-SOIC	11.46	10.32	9.16
AD7306JNZ-ND	TX/RX RS-232/RS-422, 5V*	24-Dip	11.31	10.19	9.04
ADM101EARMZ-ND	TX/RX RS-232 Single 5V*	10-MSOP	2.38	1.90	1.43
ADM202EANZ-ND	TX/RX RS-232, 5V, 15kV*	16-Dip	2.25	1.80	1.35
ADM202EARNZ-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	2.25	1.80	1.35
ADM202EARNZ-REEL-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	2880.00/2,500		
ADM202EARNZ-REEL7TR-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	1170.00/1,000		
ADM202EARUZ-ND	TX/RX RS-232, 5V, 15kV*	16-TSSOP	2.25	1.80	1.35
ADM202EARUZ-REEL7TR-ND	TX/RX RS-232, 5V, 15kV*	16-TSSOP	1170.00/1,000		
ADM202EARWZ-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	2.25	1.80	1.35
ADM202EARW-REELTR-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	1317.00/1,000		
ADM202JNZ-ND	TX/RX RS-232, 5V, 15kV*	16-Dip	2.13	1.70	1.28
ADM202JRNZ-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	2.13	1.70	1.28
ADM202JRNZ-REEL7TR-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	1105.00/1,000		
ADM202JRW-REELCT-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	2.35	1.88	1.41
ADM202JRW-REELTR-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	1250.00/1,000		
ADM206ANZ-ND	TX/RX RS-232, 5V Shutdown/Enable*	24-Dip	3.49	2.79	2.17
ADM206EARZ-ND	TX/RX RS-232, 5V Shutdown/Enable*	24-SOIC	3.49	2.79	2.17
ADM207EARUZ-ND	TX/RX RS-232, 5V, 15kV*	24-TSSOP	3.29	2.63	2.05
ADM207EARZ-ND	TX/RX RS-232, 5V, 15kV*	24-SOIC	3.29	2.63	2.05
ADM208ANZ-ND	TX/RX RS-232, 5V, 0.1µF*	24-Dip	3.29	2.63	2.05
ADM208ARZ-ND	TX/RX RS-232, 5V, 0.1µF*	24-SOIC	3.29	2.63	2.05
ADM208EANZ-ND	TX/RX RS-232, 5V, 0.1µF*	24-Dip	3.29	2.63	2.05
ADM208EAR-REELCT-ND	TX/RX RS-232, 5V, 0.1µF	24-SOIC	3.29	2.63	2.05
ADM208EARSZ-ND	TX/RX RS-232, 5V, 0.1µF*	24-SSOP	3.29	2.63	2.05
ADM208EARZ-ND	TX/RX RS-232, 5V, 0.1µF*	24-SOIC	3.29	2.63	2.05
ADM211ARS-REELCT-ND	TX/RX RS-232, 5V, 0.1µF	28-SSOP	3.29	2.63	2.05
ADM211ARSZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-SSOP	3.29	2.63	2.05
ADM211EAR-REELCT-ND	TX/RX RS-232, 5V, 0.1µF	28-SOIC	3.29	2.63	2.05
ADM211EARS-REELCT-ND	TX/RX RS-232, 5V, 0.1µF	28-SSOP	3.62	2.90	2.26
ADM211EARS-REELTR-ND	TX/RX RS-232, 5V, 0.1µF	28-SSOP	3139.50/1,500		
ADM211EARSZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-SSOP	3.29	2.63	2.05
ADM211EARUZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-TSSOP	3.29	2.63	2.05
ADM211EARZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-SOIC	3.29	2.63	2.05
ADM211EARZ-REELCT-ND	TX/RX RS-232, 5V, 0.1µF*	28-SOIC	3.65	2.92	2.19
ADM211EARZ-REELTR-ND	TX/RX RS-232, 5V, 0.1µF*	28-SOIC	1861.50/1,000		
ADM213EARS-REELCT-ND	TX/RX RS-232, 5V, 0.1µF	28-SSOP	3.29	2.63	2.05
ADM213EARSZ-REELTR-ND	TX/RX RS-232, 5V, 0.1µF*	28-SSOP	2792.25/1,500		
ADM213EARSZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-SSOP	3.29	2.63	2.05
ADM213EARU-ND	TX/RX RS-232, 5V, 0.1µF	28-TSSOP	4.03	3.22	2.42
ADM213EARUZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-TSSOP	3.29	2.63	2.05
ADM213EARZ-ND	TX/RX RS-232, 5V, 0.1µF*	28-SOIC	3.29	2.63	2.05
ADM222ANZ-ND	TX/RX RS-232, 5V with Shutdown*	18-Dip	2.93	2.34	1.82
ADM222ARZ-ND	TX/RX RS-232, 5V with Shutdown*	18-SOIC	2.93	2.34	1.82
ADM231LJNZ-ND	TX/RX RS-232, Dual 5V*	14-Dip	2.38	1.90	1.43
ADM232AANZ-ND	TX/RX RS-232, Dual 5V*	16-Dip	2.25	1.80	1.40
ADM232AARNZ-ND	TX/RX RS-232, Dual 5V*	16-SOIC	2.25	1.80	1.40
ADM232AARN-REELCT-ND	TX/RX RS-232, Dual 5V	16-SOIC	2.48	1.98	1.54
ADM232AARN-REELTR-ND	TX/RX RS-232, Dual 5V	16-SOIC	3575.00/2,500		
ADM232AARWZ-ND	TX/RX RS-232, Dual 5V*	16-SOIC	2.25	1.80	1.40
ADM232AARW-REELCT-ND	TX/RX RS-232, Dual 5V	16-SOIC	2.48	1.98	1.54
ADM232AARW-REELTR-ND	TX/RX RS-232, Dual 5V	16-SOIC	1463.00/1,000		
ADM232LAN-ND	TX/RX RS-232, Dual 5V	16-Dip	3.15	2.63	2.10
ADM232LANZ-ND	TX/RX RS-232, Dual 5V*	16-Dip	2.38	1.90	1.43
ADM232LARZ-ND	TX/RX RS-232, Dual 5V*	16-SOIC	2.38	1.90	1.43
ADM232LAR-REELCT-ND	TX/RX RS-232, Dual 5V	16-SOIC	3.15	2.63	2.10
ADM232LAR-REELTR-ND	TX/RX RS-232, Dual 5V	16-SOIC	1397.00/1,000		
ADM232LJNZ-ND	TX/RX RS-232, Dual 5V*	16-Dip	2.38	1.90	1.43
ADM232LJRZ-ND	TX/RX RS-232, Dual 5V*	16-SOIC	2.38	1.90	1.43
ADM233LAN-ND	TX/RX RS-232, Dual 5V	20-Dip	6.44	5.15	4.01
ADM233LANZ-ND	TX/RX RS-232, Dual 5V*	20-Dip	5.20	4.16	3.51
ADM233LJNZ-ND	TX/RX RS-232, Dual 5V*	20-Dip	5.18	4.14	3.22
ADM238LARZ-ND	TX/RX RS-232, Quad 5V*	24-SOIC	3.29	2.63	2.05
ADM238LJNZ-ND	TX/RX RS-232, Quad 5V*	24-Dip	3.04	2.43	1.89
ADM238LJRZ-ND	TX/RX RS-232, Quad 5V*	24-SOIC	3.04	2.43	1.89
ADM239LANZ-ND	TX/RX RS-232, Triple 5V*	24-Dip	3.83	3.06	2.38
ADM239LARZ-ND	TX/RX RS-232, Triple 5V*	24-SOIC	3.83	3.06	2.38
ADM241LARZ-ND	TX/RX RS-232, 5V*	28-SOIC	2.93	2.34	1.82
ADM242ANZ-ND	TX/RX RS-232 with Enable and Shutdown*	18-Dip	3.04	2.43	1.89
ADM242ARZ-ND	TX/RX RS-232 with Enable and Shutdown*	18-SOIC	3.04	2.43	1.89
ADM242AR-REELTR-ND	TX/RX RS-232 with Enable and Shutdown	18-SOIC	1937.00/1,000		
ADM483ARZ-ND	TX/RX RS-485/RS-422 Low Power, Slew-Rate Limited*	8-SOIC	1.63	1.30	.98
ADM483EANZ-ND	TX/RX RS-485 Low-Slew 5V*	8-Dip	3.04	2.43	1.89
ADM483EARZ-ND	TX/RX RS-485 Low-Slew 5V*	8-SOIC	2.27	1.82	1.42
ADM483EARZ-REELTR-ND	TX/RX RS-485 Low-Slew 5V*	8-SOIC	3181.50/2,500		
ADM485ANZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-Dip	2.38	1.90	1.43
ADM485ARZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-SOIC	2.38	1.90	1.43
ADM485EARZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-SOIC	2.75	2.20	1.71
ADM485JNZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-Dip	2.13	1.70	1.28
ADM485JRZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-SOIC	2.13	1.70	1.28
ADM485JR-REELTR-ND	TX/RX RS-485/RS-422 Half Duplex, 5V	8-SOIC	3055.00/2,500		
ADM487EARZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-SOIC	2.75	2.20	1.71
ADM488ANZ-ND	TX/RX RS-485 Low-Slew*	8-Dip	2.70	2.16	1.68
ADM488ARZ-ND	TX/RX RS-485 Low-Slew*	8-SOIC	2.70	2.16	1.68
ADM489ANZ-ND	TX/RX RS-485 Low-Slew/Enable*	14-Dip	3.38	2.70	2.10
ADM489ARZ-ND	TX/RX RS-485 Low-Slew/Enable*	14-SOIC	3.38	2.70	2.10
ADM1181AANZ-ND	TX/RX RS-232 EMI/EMC Compliant*	16-Dip	2.25	1.80	1.35
ADM1385ARSZ-ND	TX/RX RS-232 High Speed 3.3V*	20-SSOP	3.02	2.42	1.88
ADM1485ARZ-ND	TX/RX RS-485 High Speed 5V*	8-SOIC	2.48	1.98	1.54
ADM1485JN-ND	TX/RX RS-485 High Speed 5V	8-Dip	2.63	2.10	1.58
ADM1485JNZ-ND	TX/RX RS-485 High Speed 5V*	8-Dip	2.38	1.90	1.43
ADM1485JRZ-ND	TX/RX RS-485 High Speed 5V*	8-SOIC	2.13	1.70	1.28
ADM1486ARZ-ND	TX/RX RS-485 PROFIBUS 5V*	8-SOIC	5.09	4.07	3.17
ADM1487EARZ-ND	TX/RX RS-485/RS-422 Half Duplex, 5V*	8-SOIC	2.75	2.20	1.71
ADM2209EARUZ-ND	TX/RX 6/10 RS-232, 12V*	38-TSSOP	4.97	3.98	3.10
ADM2483BRWZ-ND	TX/RX RS-485 Half Duplex, *i*Coupler® *	16-SOIC	6.60	5.28	4.46
ADM2485BRWZ-ND	TX/RX RS-485, High Speed, Half Duplex Isolated*	16-SOIC	9.91	8.93	7.92
ADM2486BRW-ND	TX/RX RS-485, High Speed, Half Duplex *i*Coupler®	16-SOIC	10.08	9.08	8.05
ADM2486BRWZ-ND	TX/RX RS-485, High Speed, Half Duplex *i*Coupler®*	16-SOIC	9.16	8.25	7.32
ADM2490EBRWZ-ND	TX/RX Isolated RS-485, HS, ESD, *i*Coupler®*	16-SOIC	9.90	7.92	6.69
ADM2491EBRWZ-ND	TX/RX RS-485 Half/Full Duplex* ***NEW!***	16-SOIC	8.58	7.73	6.85
ADM3070EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	14-SOIC	3.40	2.72	2.12
ADM3070EYRZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	14-SOIC	3.74	2.99	2.33
ADM3071EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	8-SOIC	3.31	2.65	2.06
ADM3071EYRZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	8-SOIC	3.62	2.90	2.26
ADM3072EARZ-ND	TX/RX RS-485/RS-422 Half Duplex 3.3V*	8-SOIC	3.20	2.56	1.99
ADM3073EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	14-SOIC	3.40	2.72	2.12
ADM3073EYRZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	14-SOIC	3.74	2.99	2.33
ADM3074EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	8-SOIC	3.20	2.56	1.99
ADM3075EARZ-ND	TX/RX RS-485/RS-422 Half Duplex 3.3V*	8-SOIC	3.20	2.56	1.99
ADM3075EYRZ-ND	TX/RX RS-485/RS-422 Half Duplex 3.3V*	8-SOIC	3.53	2.83	2.20
ADM3076EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	14-SOIC	3.40	2.72	2.12
ADM3076EYRZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	14-SOIC	3.74	2.99	2.33
ADM3077EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	8-SOIC	3.31	2.65	2.06
ADM3077EYRZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	8-SOIC	3.62	2.90	2.26
ADM3078EARZ-ND	TX/RX RS-485/RS-422 Half Duplex 3.3V*	8-SOIC	3.24	2.60	2.02
ADM3078EYRZ-ND	TX/RX RS-485/RS-422 Half Duplex 3.3V*	8-SOIC	3.58	2.87	2.23
ADM3101EACPZ-250R7CT-ND	TX/RX RS-232, 3.3V*	12-LFCSP	2.10	1.68	1.26
ADM3101EACPZ-250R7TR-ND	TX/RX RS-232, 3.3V*	12-LFCSP	294.00/250		
ADM3101EARQZ-ND	TX/RX RS-232, 3.3V* ***NEW!***	16-QSOP	2.48	1.98	1.54
ADM3202ANZ-ND	TX/RX Dual RS-232, 3.3V*	16-Dip	2.54	2.04	1.59
ADM3202ARNZ-ND	TX/RX Dual RS-232, 3.3V*	16-SOIC	2.54	2.04	1.59
ADM3202ARNREEL7CT-ND	TX/RX Dual RS-232, 3.3V	16-SOIC	2.54	2.04	1.59
ADM3202ARNZ-REEL7TR-ND	TX/RX Dual RS-232, 3.3V*	16-SOIC	1440.75/1,000		
ADM3202ARUZ-ND	TX/RX Dual RS-232, 3.3V*	16-TSSOP	2.54	2.04	1.59
ADM3202ARU-REELCT-ND	TX/RX Dual RS-232, 3.3V	16-TSSOP	2.79	2.24	1.74
ADM3202ARU-REELTR-ND	TX/RX Dual RS-232, 3.3V	16-TSSOP	3967.50/2,500		
ADM3202ARWZ-ND	TX/RX Dual RS-232, 3.3V*	16-SOIC	2.54	2.04	1.59
ADM3222ANZ-ND	TX/RX RS-232, 3.3V with Shutdown*	18-Dip	2.54	2.04	1.59
ADM3222ARSZ-ND	TX/RX RS-232, 3.3V with Shutdown*	20-SSOP	2.54	2.04	1.59
ADM3222ARUZ-ND	TX/RX RS-232, 3.3V with Shutdown*	20-TSSOP	2.54	2.04	1.59
ADM3222ARWZ-ND	TX/RX RS-232, 3.3V with Shutdown*	18-SOIC	2.54	2.04	1.59
ADM3232EARNZ-ND	TX/RX RS-232, 3.3V*	16-SOIC	2.88	2.31	1.80
ADM3232EARUZ-ND	TX/RX RS-232, 3.3V*	16-TSSOP	2.88	2.31	1.80
ADM3232EARWZ-ND	TX/RX RS-232, 3.3V* ***NEW!***	16-SOIC	2.88	2.31	1.80
ADM3310EARU-ND	TX/RX RS-232, 3:5, 2.7V	28-TSSOP	3.51	2.81	2.19
ADM3310EARUZ-ND	TX/RX RS-232, 3:5, 2.7V*	28-TSSOP	3.20	2.56	1.99
ADM3311EARSZ-ND	TX/RX RS-232, 3:5, 2.7V*	28-SSOP	3.15	2.52	1.96
ADM3311EARSREELCT-ND	TX/RX RS-232, 3:5, 2.7V	28-SSOP	3.15	2.52	1.96
ADM3311EARSZ-REELCT-ND	TX/RX RS-232, 3:5, 2.7V*	28-SSOP	3.50	2.80	2.10
ADM3311EARSZ-REELTR-ND	TX/RX RS-232, 3:5, 2.7V*	28-SSOP	2677.50/1,500		
ADM3311EARUZ-ND	TX/RX RS-232, 2.7 to 3.6V*	28-TSSOP	3.15	2.52	1.96
ADM3311EARU-RL7CT-ND	TX/RX RS-232, 3:5, 2.7V	28-TSSOP	3.47	2.78	2.16
ADM3311EARU-RL7TR-ND	TX/RX RS-232, 3:5, 2.7V	28-TSSOP	2002.00/1,000		
ADM3312EARUZ-ND	TX/RX RS-232, 2.7V to 3.6V*	24-TSSOP	3.11	2.49	1.94
ADM3315EARUZ-ND	TX/RX RS-232, 3:5, 2.7V*	24-TSSOP	3.20	2.56	1.99
ADM3483ARZ-ND	TX/RX RS-485/RS-422, Half Duplex 3.3V*	8-SOIC	2.38	1.90	1.43
ADM3483EARZ-ND	TX/RX RS-485/RS-422, Half Duplex 3.3V*	8-SOIC	2.77	2.22	1.73
ADM3485ARZ-ND	TX/RX RS-485/RS-422 Half Duplex 3.3V*	8-SOIC	2.36	1.89	1.47
ADM3485EARZ-ND	TX/RX RS-485/RS-422 Half Duplex 3.3V*	8-SOIC	2.75	2.20	1.71
ADM3486EARZ-ND	TX/RX RS-485/RS-422 Half Duplex 3.3V*	8-SOIC	2.77	2.22	1.73
ADM3488ARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	8-SOIC	2.38	1.90	1.43
ADM3488EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	8-SOIC	2.77	2.22	1.73
ADM3490ARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	8-SOIC	2.36	1.89	1.47
ADM3490EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	8-SOIC	2.88	2.31	1.80
ADM3491ANZ-1-ND	TX/RX RS-485 High Speed Full Duplex 3.3V*	14-Dip	2.10	1.68	1.26
ADM3491ARZ-ND	TX/RX RS-485 High Speed Full Duplex 3.3V*	14-SOIC	2.52	2.02	1.57
ADM3491ARUZ-1-ND	TX/RX RS-485 High Speed Full Duplex 3.3V*	16-TSSOP	2.90	2.33	1.81
ADM3491EARZ-ND	TX/RX RS-485/RS-422 Full Duplex 3.3V*	14-SOIC	2.97	2.38	1.85
ADM3493ARZ-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 3.3V*	8-SOIC	2.25	1.80	1.40
ADM4850ARZ-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V*	8-SOIC	1.50	1.20	.90
ADM4851ARZ-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V*	8-SOIC	1.50	1.20	.90
ADM4852ARZ-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V*	8-SOIC	1.50	1.20	.90
ADM4853ARZ-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V*	8-SOIC	1.50	1.20	.90
ADM4854ARZ-ND	TX/RX RS-485/RS-422, Full Duplex Slew Rate Limited, 5V*	8-SOIC	1.50	1.20	.90
ADM4856AR-ND	TX/RX RS-485/RS-422, Full Duplex Slew Rate Limited, 5V	8-SOIC	1.65	1.32	.99
ADM4856ARZ-ND	TX/RX RS-485/RS-422, Full Duplex Slew Rate Limited, 5V*	8-SOIC	1.50	1.20	.90
ADM4857ARZ-ND	TX/RX RS-485/RS-422, Full Duplex Slew Rate Limited, 5V*	8-SOIC	1.50	1.20	.90
ADM5170APZ-ND	TX/RX RS-232/423 Octal*	28-PLCC	6.36	5.09	4.30
ADM5170JP-ND	TX/RX RS-232/423 Octal	28-PLCC	5.66	4.53	3.83
ADM5180JPZ-ND	TX/RX RS-232/423 Octal*	28-PLCC	5.14	4.12	3.47

ANALOG DEVICES MOTION/MOTOR CONTROL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AC2626L4-ND	Temperature Probe 4" General Purpose	—	135.56	—	—
AD2S80ABD-ND	R/D Converter Tracking	40-CDip	232.49	216.99	201.49
AD2S80AJD-ND	R/D Converter Tracking	40-CDip	151.43	141.33	131.24
AD2S80ALD-ND	R/D Converter Tracking	40-CDip	302.87	282.68	262.49
AD2S80ASD-ND	R/D Converter Tracking	40-CDip	417.27	389.46	361.64
AD2S82AHPZ-ND	R/D Converter Tracking*	44-PLCC	85.14	79.47	73.79
AD2S82AKPZ-ND	R/D Converter Tracking*	44-PLCC	206.60	192.83	179.05
AD2S83APZ-ND	R/D Converter Tracking*	44-PLCC	139.38	130.09	120.80
AD2S90APZ-ND	R/D Converter 12-Bit*	20-PLCC	41.39	38.63	35.87
AD2S99APZ-ND	Programmable Oscillator*	20-PLCC	15.36	13.83	12.27
AD2S1200WST-ND	R/D Converter 12-Bit with Reference Oscillator	44-LQFP	23.10	21.56	20.02
AD2S1200WSTZ-ND	R/D Converter 12-Bit with Reference Oscillator*	44-LQFP	21.00	19.60	18.20
AD2S1200YSTZ-ND	R/D Converter 12-Bit with Reference Oscillator*	44-LQFP	26.25	24.50	22.75
EVAL-AD2S1200CBZ-ND	Evaluation Board for AD2S1200*	—	150.00	—	—
AD2S1205WSTZ-ND	R/D Converter 12-Bit with Reference Oscillator*	44-LQFP	21.00	19.60	18.20
EVAL-AD2S1205CBZ-ND	Evaluation Board for AD2S1205*	—	150.00	—	—
AD598AD-ND	LVDT Signal Conditioning	20-Dip	52.53	49.03	45.53
AD598JRZ-ND	LVDT Signal Conditioning*	20-SOIC	33.96	31.70	29.44
AD698APZ-ND	LVDT Signal Conditioning*	28-PLCC	26.91	25.12	23.33
AD698SQ-ND	LVDT Signal Conditioning	24-Dip	82.41	76.92	71.43

* ***RoHS Compliant***

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
	Battery Chargers — RoHS Compliant				
ADP2291ACPZ-R7CT-ND	Compact, 1.5A Linear Charger for Single-Cell Li+ Battery	8-LFCSP	2.52	2.02	1.57
ADP2291ACPZ-R7TR-ND	Compact, 1.5A Linear Charger for Single-Cell Li+ Battery	8-LFCSP	2142.00/1,500		
ADP2291ARMZ-R7CT-ND	Compact, 1.5A Linear Charger for Single-Cell Li+ Battery	8-MSOP	2.43	1.95	1.52
ADP2291ARMZ-R7TR-ND	Compact, 1.5A Linear Charger for Single-Cell Li+ Battery	8-MSOP	1377.00/1,000		
ADP2291-EVAL-ND	Evaluation Board for ADP2291	—	62.50	—	—
ADP3806JRUZ-REEL7CT-ND	High Frequency Switch Mode Li-Ion Battery Charger	24-TSSOP	4.80	3.84	3.24
	DC-to-DC				
AD8240YRM-ND	LED Driver/Monitor	8-MSOP	3.20	2.56	1.99
AD8240YRMZ-ND	LED Driver/Monitor*	8-MSOP	3.06	2.45	1.91
ADM660AN-ND	Converter Switch Capacitor	8-Dip	2.75	2.20	1.65
ADM660ANZ-ND	Converter Switch Capacitor*	8-Dip	2.25	1.80	1.40
ADM660ARZ-ND	Converter Switch Capacitor*	8-SOIC	2.25	1.80	1.40
ADP1610ARMZ-R7CT-ND	1.2MHz Step-Up DC-DC Switching Converter*	8-MSOP	2.81	2.25	1.75
ADP1610ARMZ-R7TR-ND	1.2MHz Step-Up DC-DC Switching Converter*	8-MSOP	1593.75/1,000		
ADP1611ARMZ-R7CT-ND	20V, 1.2MHz Step-Up DC-DC Switching Converter*	8-MSOP	3.04	2.43	1.89
ADP1611ARMZ-R7TR-ND	20V, 1.2MHz Step-Up DC-DC Switching Converter*	8-MSOP	1721.25/1,000		
ADP1621-EVALZ-ND	Evaluation Board for ADP1621*	—	75.00	—	—
ADP1621ARMZ-R7CT-ND	Constant Freq., Current-Mode, Step-Up DC-DC Controller*	10-MSOP	2.93	2.34	1.82
ADP1621ARMZ-R7TR-ND	Constant Freq., Current-Mode, Step-Up DC-DC Controller*	10-MSOP	1657.50/1,000		
ADP1821-EVAL-ND	Evaluation Board for ADP1821	—	75.00	—	—
ADP1821ARQZ-R7CT-ND	20A Step-Down DC-DC Controller*	16-QSOP	3.04	2.43	1.89
ADP1821ARQZ-R7TR-ND	20A Step-Down DC-DC Controller*	16-QSOP	1721.25/1,000		
ADP1822-EVAL-ND	Evaluation Board for ADP1822	—	75.00	—	—
ADP1822ARQZ-R7CT-ND	PWM Step-Down DC-DC Controller*	24-QSOP	3.15	2.52	1.96
ADP1822ARQZ-R7TR-ND	PWM Step-Down DC-DC Controller*	24-QSOP	1785.00/1,000		
ADP1823-EVAL-ND	Evaluation Board for ADP1823	—	75.00	—	—
ADP1823ACPZ-R7CT-ND	Dual, Interleaved, Step-Down DC-DC Controller*	32-LFCSP	4.73	3.78	2.94
ADP1823ACPZ-R7TR-ND	Dual, Interleaved, Step-Down DC-DC Controller*	32-LFCSP	4016.25/1,500		
ADP1828YRQZ-R7CT-ND	PWM Step-Down DC-DC Controller* ***NEW!***	20-QSOP	3.38	2.70	2.10
ADP1828YRQZ-R7TR-ND	PWM Step-Down DC-DC Controller* ***NEW!***	20-QSOP	1912.50/1,000		
ADP1829-EVALZ-ND	Evaluation Board for ADP1829*	—	75.00	—	—
ADP1829ACPZ-R7CT-ND	Dual, Interleaved, Step-Down DC-DC Controller*	32-LFCSP	4.73	3.78	2.94
ADP1829ACPZ-R7TR-ND	Dual, Interleaved, Step-Down DC-DC Controller*	32-LFCSP	4016.25/1,500		
ADP1864-EVALZ-ND	Evaluation Board for ADP1864*	—	75.00	—	—
ADP1864AUJZ-R7CT-ND	Constant Freq., Current-Mode Step-Down DC-DC Controller*	SOT-23-6	2.36	1.89	1.47
ADP1864AUJZ-R7TR-ND	Constant Freq., Current-Mode Step-Down DC-DC Controller*	SOT-23-6	3969.00/3,000		
ADP2102-EVALZ-ND	Evaluation Board for ADP2102*	—	75.00	—	—
ADP2102-1.2-EVALZ-ND	Evaluation Board for ADP2102-1.2*	—	75.00	—	—
ADP2102YCPZ-1-R7CT-ND	600mA, 1V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2.75	2.20	1.71
ADP2102YCPZ-1-R7TR-ND	600mA, 1V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2333.25/1,500		
ADP2102YCPZ-1.2-R7CT-ND	600mA, 1.2V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2.75	2.20	1.71
ADP2102YCPZ-1.2-R7TR-ND	600mA, 1.2V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2333.25/1,500		
ADP2102YCPZ-1.5-R7CT-ND	600mA, 1.5V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2.75	2.20	1.71
ADP2102YCPZ-1.5-R7TR-ND	600mA, 1.5V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2333.25/1,500		
ADP2102YCPZ-2-R7CT-ND	600mA, 2V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2.75	2.20	1.71
ADP2102YCPZ-2-R7TR-ND	600mA, 2V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2333.25/1,500		
ADP2102YCPZ-3-R7CT-ND	600mA, 3V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2.75	2.20	1.71
ADP2102YCPZ-3-R7TR-ND	600mA, 3V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2333.25/1,500		
ADP2102YCPZ-4-R7CT-ND	600mA, 4V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2.75	2.20	1.71
ADP2102YCPZ-4-R7TR-ND	600mA, 4V, 3MHz Sync. Step-Down DC-DC Converter*	8-LFCSP	2333.25/1,500		
ADP2105-EVALZ-ND	Evaluation Board for ADP2105*	—	75.00	—	—
ADP2105ACPZ-R7CT-ND	1A Sync. Step-Down DC-DC Converter*	16-LFCSP	3.42	2.74	2.13
ADP2105ACPZ-R7TR-ND	1A Sync. Step-Down DC-DC Converter*	16-LFCSP	2907.00/1,500		
ADP2106-EVALZ-ND	Evaluation Board for ADP2106*	—	75.00	—	—
ADP2106ACPZ-R7CT-ND	1.5A, Sync. Step-Down DC-DC Converter*	16-LFCSP	3.83	3.06	2.38
ADP2106ACPZ-R7TR-ND	1.5A, Sync. Step-Down DC-DC Converter*	16-LFCSP	3251.25/1,500		
ADP2106ACPZ-3.3-R7CT-ND	1.5A, 3.3V Sync. Step-Down DC-DC Converter*	16-LFCSP	3.83	3.06	2.38
ADP2106ACPZ-3.3-R7TR-ND	1.5A, 3.3V Sync. Step-Down DC-DC Converter*	16-LFCSP	3251.25/1,500		
ADP2107-EVALZ-ND	Evaluation Board for ADP2107*	—	75.00	—	—
ADP2107ACPZ-R7CT-ND	2A, Sync. Step-Down DC-DC Converter*	16-LFCSP	4.70	3.77	2.93
ADP2107ACPZ-R7TR-ND	2A, Sync. Step-Down DC-DC Converter*	16-LFCSP	3997.13/1,500		
ADP2107ACPZ-1.2-R7CT-ND	2A, 1.2V Sync. Step-Down DC-DC Converter*	16-LFCSP	4.70	3.77	2.93
ADP2107ACPZ-1.2-R7TR-ND	2A, 1.2V Sync. Step-Down DC-DC Converter*	16-LFCSP	3997.13/1,500		
ADP2107ACPZ-1.5-R7CT-ND	2A, 1.5V Sync. Step-Down DC-DC Converter*	16-LFCSP	4.70	3.77	2.93
ADP2107ACPZ-1.5-R7TR-ND	2A, 1.5V Sync. Step-Down DC-DC Converter*	16-LFCSP	3997.13/1,500		
ADP2107-1.8-EVAL-ND	Evaluation Board for ADP2107ACPZ-1.8	—	60.00	—	—
ADP2107ACPZ-1.8-R7CT-ND	2A, 1.8V Sync. Step-Down DC-DC Converter*	16-LFCSP	4.70	3.77	2.93
ADP2107ACPZ-1.8-R7TR-ND	2A, 1.8V Sync. Step-Down DC-DC Converter*	16-LFCSP	3997.13/1,500		
ADP2107ACPZ-3.3-R7CT-ND	2A, 3.3V Sync. Step-Down DC-DC Converter*	16-LFCSP	4.70	3.77	2.93
ADP2107ACPZ-3.3-R7TR-ND	2A, 3.3V Sync. Step-Down DC-DC Converter*	16-LFCSP	3997.13/1,500		
ADP3041ARU-REELCT-ND	TFT LCD Panel Power Module	20-TSSOP	4.64	3.71	2.89
ADP3041ARU-REELTR-ND	TFT LCD Panel Power Module	20-TSSOP	6490.00/2,500		
ADP3050ARZ-R7CT-ND	1A, Adj. Step-Down Switching Regulator* ***NEW!***	8-SOIC	4.48	3.59	2.79
ADP3050ARZ-R7TR-ND	1A, Adj. Step-Down Switching Regulator* ***NEW!***	8-SOIC	2537.25/1,000		
ADP3050ARZ-5-ND	1A, 5V Step-Down Switching Regulator* ***NEW!***	8-SOIC	4.48	3.59	2.79
ADP3162JRZREEL7CT-ND	5-Bit Prog. 2-Phase Sync. Buck Controller*	16-SOIC	4.03	3.23	2.51
ADP3162JRZREEL7TR-ND	5-Bit Prog. 2-Phase Sync. Buck Controller*	16-SOIC	2310.00/1,000		
ADP3164JRUZREELCT-ND	5-Bit Prog. 4-Phase Sync. Buck Controller*	20-TSSOP	3.65	2.92	2.27
ADP3171JR-ND	Controller Buck Dual Regulator	14-SOIC	2.61	2.09	1.63
ADP3178JRZREEL7CT-ND	4-Bit Programmable Sync. Buck Controller*	16-SOIC	3.13	2.51	1.95
ADP3178JRZREEL7TR-ND	4-Bit Programmable Sync. Buck Controller*	16-SOIC	2400.00/1,000		
ADP3605AR-ND	Inverted Volt 120mA Switch Cap.	8-SOIC	3.65	2.92	2.27

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
	Display and Lighting — RoHS Compliant				
ADP1653ACPZ-R7CT-ND	Compact, High Efficiency, High Power, Flash/Torch LED Driver	16-LFCSP	3.26	2.61	2.03
ADP1653ACPZ-R7TR-ND	Compact, High Efficiency, High Power, Flash/Torch LED Driver	16-LFCSP	2773.13/1,500		
	Hot Swap Controllers — RoHS Compliant				
ADM1170-1AUJZ-RL7CT-ND	1.6V to 16.5V Hot Swap Controller with Soft Start	8-TSOT	4.73	3.78	2.94
ADM1170-1AUJZ-RL7TR-ND	1.6V to 16.5V Hot Swap Controller with Soft Start	8-TSOT	7938.00/3,000		
ADM1170-2AUJZ-RL7CT-ND	1.6V to 16.5V Hot Swap Controller with Soft Start	8-TSOT	4.73	3.78	2.94
ADM1170-2AUJZ-RL7TR-ND	1.6V to 16.5V Hot Swap Controller with Soft Start	8-TSOT	7938.00/3,000		
ADM1171-1AUJZ-RL7CT-ND	2.7V to 16.5V Hot Swap Controller with Current Sense Output	8-TSOT	4.40	3.52	2.97
ADM1171-1AUJZ-RL7TR-ND	2.7V to 16.5V Hot Swap Controller with Current Sense Output	8-TSOT	8316.00/3,000		
ADM1171-2AUJZ-RL7CT-ND	2.7V to 16.5V Hot Swap Controller with Current Sense Output	8-TSOT	4.40	3.52	2.97
ADM1171-2AUJZ-RL7TR-ND	2.7V to 16.5V Hot Swap Controller with Current Sense Output	8-TSOT	8316.00/3,000		
ADM1172-1AUJZ-RL7CT-ND	2.7V to 16.5V Hot Swap Controller with Power-Fail Comparator	8-TSOT	4.50	3.60	2.80
ADM1172-1AUJZ-RL7TR-ND	2.7V to 16.5V Hot Swap Controller with Power-Fail Comparator	8-TSOT	7560.00/3,000		
ADM1172-2AUJZ-RL7CT-ND	2.7V to 16.5V Hot Swap Controller with Power-Fail Comparator	8-TSOT	4.50	3.60	2.80
ADM1172-2AUJZ-RL7TR-ND	2.7V to 16.5V Hot Swap Controller with Power-Fail Comparator	8-TSOT	7560.00/3,000		
ADM1175-1ARMZ-R7CT-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	5.00	4.00	3.38
ADM1175-1ARMZ-R7TR-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	3125.00/1,000		
ADM1175-2ARMZ-R7CT-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	5.00	4.00	3.38
ADM1175-2ARMZ-R7TR-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	3125.00/1,000		
ADM1175-3ARMZ-R7CT-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	5.00	4.00	3.38
ADM1175-3ARMZ-R7TR-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	3125.00/1,000		
ADM1175-4ARMZ-R7CT-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	5.00	4.00	3.38
ADM1175-4ARMZ-R7TR-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	3125.00/1,000		
EVAL-ADM1175EBZ-ND	Evaluation Board for ADM1175	—	150.00	—	—
ADM1176-1ARMZ-R7CT-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	5.00	4.00	3.38
ADM1176-1ARMZ-R7TR-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	3125.00/1,000		
ADM1176-2ARMZ-R7CT-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	5.00	4.00	3.38
ADM1176-2ARMZ-R7TR-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	3125.00/1,000		
EVAL-ADM1176EBZ-ND	Evaluation Board for ADM1176	—	150.00	—	—
ADM1177-1ARMZ-R7CT-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	5.00	4.00	3.38
ADM1177-1ARMZ-R7TR-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	3125.00/1,000		
ADM1177-2ARMZ-R7CT-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	5.00	4.00	3.38
ADM1177-2ARMZ-R7TR-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	3125.00/1,000		
EVAL-ADM1177EBZ-ND	Evaluation Board for ADM1177	—	150.00	—	—
ADM1178-1ARMZ-R7CT-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	5.40	4.32	3.65
ADM1178-1ARMZ-R7TR-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	3375.00/1,000		
ADM1178-2ARMZ-R7CT-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	5.40	4.32	3.65
ADM1178-2ARMZ-R7TR-ND	3.15V to 16.5V Hot Swap Controller and Digital Power Monitor	10-MSOP	3375.00/1,000		
EVAL-ADM1178EBZ-ND	Evaluation Board for ADM1178	—	150.00	—	—
ADM4210-1AUJZ-RL7CT-ND	2.7V to 16.5V Hot Swap Controller	6-TSOT	5.12	4.10	3.46
ADM4210-1AUJZ-RL7TR-ND	2.7V to 16.5V Hot Swap Controller	6-TSOT	9522.00/3,000		
ADM4210-2AUJZ-RL7CT-ND	2.7V to 16.5V Hot Swap Controller	6-TSOT	5.12	4.10	3.46
ADM4210-2AUJZ-RL7TR-ND	2.7V to 16.5V Hot Swap Controller	6-TSOT	9522.00/3,000		
	MOSFET Driver				
ADP3414JRZ-ND	Dual Bootstrapped MOSFET Driver*	8-SOIC	2.48	1.98	1.54
ADP3415LRMZREELCT-ND	Dual Bootstrapped MOSFET Driver*	10-MSOP	2.48	1.98	1.54
ADP3415LRMZREELTR-ND	Dual Bootstrapped MOSFET Driver*	10-MSOP	5700.00/3,000		
ADP3419JRM-REELCT-ND	Dual Bootstrapped, High Voltage MOSFET Driver	10-MSOP	1.98	1.58	1.19
	Regulators				
ADP667ANZ-ND	Regulator LDO 5V or Adj.*	8-Dip	3.83	3.06	2.38
ADP667ARZ-ND	Regulator LDO 5V or Adj.*	8-SOIC	3.67	2.94	2.29
ADP1111AN-ND	Regulator Switching Adj. Voltage	8-Dip	4.97	3.98	3.10
ADP1706ARDZ-2.5-R7CT-ND	Regulator CMOS LDO, 1A, 2.5V* ***NEW!***	8-SOIC	2.70	2.16	1.62
ADP1706ARDZ-2.5-R7TR-ND	Regulator CMOS LDO, 1A, 2.5V* ***NEW!***	8-SOIC	1377.00/1,000		
ADP1706ARDZ-3.0-R7CT-ND	Regulator CMOS LDO, 1A, 3.0V* ***NEW!***	8-SOIC	2.70	2.16	1.62
ADP1706ARDZ-3.0-R7TR-ND	Regulator CMOS LDO, 1A, 3.0V* ***NEW!***	8-SOIC	1377.00/1,000		
ADP1706ARDZ-3.3-R7CT-ND	Regulator CMOS LDO, 1A, 3.3V* ***NEW!***	8-SOIC	2.70	2.16	1.62
ADP1706ARDZ-3.3-R7TR-ND	Regulator CMOS LDO, 1A, 3.3V* ***NEW!***	8-SOIC	1377.00/1,000		
ADP1706-3.3-EVALZ-ND	Evaluation Board for ADP1706-3.3* ***NEW!***	—	75.00	—	—
ADP1707ARDZ-3.0-R7CT-ND	Regulator CMOS LDO, 1A, 3.0V* ***NEW!***	8-SOIC	2.78	2.22	1.67
ADP1707ARDZ-3.0-R7TR-ND	Regulator CMOS LDO, 1A, 3.0V* ***NEW!***	8-SOIC	1415.25/1,000		
ADP1707ARDZ-3.3-R7CT-ND	Regulator CMOS LDO, 1A, 3.3V* ***NEW!***	8-SOIC	2.78	2.22	1.67
ADP1707ARDZ-3.3-R7TR-ND	Regulator CMOS LDO, 1A, 3.3V* ***NEW!***	8-SOIC	1415.25/1,000		
ADP1707-3.3-EVALZ-ND	Evaluation Board for ADP1707-3.3* ***NEW!***	—	75.00	—	—
ADP1708ARDZ-R7CT-ND	Regulator CMOS LDO, 1A, ADJ* ***NEW!***	8-SOIC	2.70	2.16	1.62
ADP1708ARDZ-R7TR-ND	Regulator CMOS LDO, 1A, ADJ* ***NEW!***	8-SOIC	1377.00/1,000		
ADP1708-EVALZ-ND	Evaluation Board for ADP1708* ***NEW!***	—	75.00	—	—
ADP1710-EVALZ-ND	Evaluation Board for ADP1710*	—	75.00	—	—
ADP1710AUJZ-R7CT-ND	Regulator CMOS LDO, 150mA*	TSOT-5	1.23	1.03	.82

*** RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADP1710AUJZ-R7TR-ND	Regulator CMOS LDO, 150mA*	TSOT-5	1599.00/3,000		
ADP1710AUJZ-1.0-R7CT-ND	Regulator CMOS LDO, 150mA, 1V*	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-1.0-R7TR-ND	Regulator CMOS LDO, 150mA, 1V*	TSOT-5	1599.00/3,000		
ADP1710AUJZ-1.2-R7CT-ND	Regulator CMOS LDO, 150mA, 1.2V*	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-1.2-R7TR-ND	Regulator CMOS LDO, 150mA, 1.2V*	TSOT-5	1599.00/3,000		
ADP1710AUJZ-1.5-R7CT-ND	Regulator CMOS LDO, 150mA, 1.5V*	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-1.5-R7TR-ND	Regulator CMOS LDO, 150mA, 1.5V*	TSOT-5	1599.00/3,000		
ADP1710AUJZ-1.8-R7CT-ND	Regulator CMOS LDO, 150mA, 1.8V*	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-1.8-R7TR-ND	Regulator CMOS LDO, 150mA, 1.8V*	TSOT-5	1599.00/3,000		
ADP1710AUJZ-2.5-R7CT-ND	Regulator CMOS LDO, 150mA, 2.5V*	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-2.5-R7TR-ND	Regulator CMOS LDO, 150mA, 2.5V*	TSOT-5	1599.00/3,000		
ADP1710AUJZ-3.0-R7CT-ND	Regulator CMOS LDO, 150mA, 3.0V*	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-3.0-R7TR-ND	Regulator CMOS LDO, 150mA, 3.0V*	TSOT-5	1599.00/3,000		
ADP1710AUJZ-3.3-R7CT-ND	Regulator CMOS LDO, 150mA, 3.3V*	TSOT-5	1.23	1.03	.82
ADP1710AUJZ-3.3-R7TR-ND	Regulator CMOS LDO, 150mA, 3.3V*	TSOT-5	1599.00/3,000		
ADP1711AUJZ-0.75R7CT-ND	Regulator CMOS LDO, 150mA, 0.75V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-0.75R7TR-ND	Regulator CMOS LDO, 150mA, 0.75V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-0.8-R7CT-ND	Regulator CMOS LDO, 150mA, 0.8V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-0.8-R7TR-ND	Regulator CMOS LDO, 150mA, 0.8V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-0.85R7CT-ND	Regulator CMOS LDO, 150mA, 0.85V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-0.85R7TR-ND	Regulator CMOS LDO, 150mA, 0.85V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-0.9-R7CT-ND	Regulator CMOS LDO, 150mA, 0.9V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-0.9-R7TR-ND	Regulator CMOS LDO, 150mA, 0.9V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-0.95R7CT-ND	Regulator CMOS LDO, 150mA, 0.95V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-0.95R7TR-ND	Regulator CMOS LDO, 150mA, 0.95V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-1.0-R7CT-ND	Regulator CMOS LDO, 150mA, 1.0V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-1.0-R7TR-ND	Regulator CMOS LDO, 150mA, 1.0V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-1.05R7CT-ND	Regulator CMOS LDO, 150mA, 1.05V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-1.05R7TR-ND	Regulator CMOS LDO, 150mA, 1.05V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-1.10R7CT-ND	Regulator CMOS LDO, 150mA, 1.10V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-1.10R7TR-ND	Regulator CMOS LDO, 150mA, 1.10V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-1.15R7CT-ND	Regulator CMOS LDO, 150mA, 1.15V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-1.15R7TR-ND	Regulator CMOS LDO, 150mA, 1.15V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-1.2-R7CT-ND	Regulator CMOS LDO, 150mA, 1.2V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-1.2-R7TR-ND	Regulator CMOS LDO, 150mA, 1.2V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-1.3-R7CT-ND	Regulator CMOS LDO, 150mA, 1.3V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-1.3-R7TR-ND	Regulator CMOS LDO, 150mA, 1.3V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-1.5-R7CT-ND	Regulator CMOS LDO, 150mA, 1.5V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-1.5-R7TR-ND	Regulator CMOS LDO, 150mA, 1.5V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-1.8-R7CT-ND	Regulator CMOS LDO, 150mA, 1.8V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-1.8-R7TR-ND	Regulator CMOS LDO, 150mA, 1.8V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-2.5-R7CT-ND	Regulator CMOS LDO, 150mA, 2.5V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-2.5-R7TR-ND	Regulator CMOS LDO, 150mA, 2.5V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-3.0-R7CT-ND	Regulator CMOS LDO, 150mA, 3.0V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-3.0-R7TR-ND	Regulator CMOS LDO, 150mA, 3.0V*	TSOT-5	1716.00/3,000		
ADP1711AUJZ-3.3-R7CT-ND	Regulator CMOS LDO, 150mA, 3.3V*	TSOT-5	1.32	1.10	.88
ADP1711AUJZ-3.3-R7TR-ND	Regulator CMOS LDO, 150mA, 3.3V*	TSOT-5	1716.00/3,000		
ADP1712-EVALZ-ND	Evaluation Board for ADP1712*	—	75.00	—	—
ADP1712AUJZ-R7CT-ND	Regulator CMOS LDO, 300mA, Adj.* ***NEW!***	5-TSOT	1.38	1.15	.92
ADP1712AUJZ-R7TR-ND	Regulator CMOS LDO, 300mA, Adj.* ***NEW!***	5-TSOT	1794.00/3,000		
ADP1712AUJZ-0.8-R7CT-ND	Regulator CMOS LDO, 300mA, 0.8V*	TSOT-5	1.38	1.15	.92
ADP1712AUJZ-0.8-R7TR-ND	Regulator CMOS LDO, 300mA, 0.8V*	TSOT-5	1794.00/3,000		
ADP1712AUJZ-1.0-R7CT-ND	Regulator CMOS LDO, 300mA, 1.0V*	TSOT-5	1.38	1.15	.92
ADP1712AUJZ-1.0-R7TR-ND	Regulator CMOS LDO, 300mA, 1.0V*	TSOT-5	1794.00/3,000		
ADP1712AUJZ-1.15R7CT-ND	Regulator CMOS LDO, 300mA, 1.15V*	TSOT-5	1.38	1.15	.92
ADP1712AUJZ-1.15R7TR-ND	Regulator CMOS LDO, 300mA, 1.15V*	TSOT-5	1794.00/3,000		
ADP1712AUJZ-1.2-R7CT-ND	Regulator CMOS LDO, 300mA, 1.2V*	TSOT-5	1.38	1.15	.92
ADP1712AUJZ-1.2-R7TR-ND	Regulator CMOS LDO, 300mA, 1.2V*	TSOT-5	1794.00/3,000		
ADP1712AUJZ-1.8-R7CT-ND	Regulator CMOS LDO, 300mA, 1.8V*	TSOT-5	1.38	1.15	.92
ADP1712AUJZ-1.8-R7TR-ND	Regulator CMOS LDO, 300mA, 1.8V*	TSOT-5	1794.00/3,000		
ADP1712AUJZ-2.5-R7CT-ND	Regulator CMOS LDO, 300mA, 2.5V*	TSOT-5	1.38	1.15	.92
ADP1712AUJZ-2.5-R7TR-ND	Regulator CMOS LDO, 300mA, 2.5V*	TSOT-5	1794.00/3,000		
ADP1712AUJZ-3.0-R7CT-ND	Regulator CMOS LDO, 300mA, 3.0V*	TSOT-5	1.38	1.15	.92
ADP1712AUJZ-3.0-R7TR-ND	Regulator CMOS LDO, 300mA, 3.0V*	TSOT-5	1794.00/3,000		
ADP1712-3.3-EVALZ-ND	Evaluation Board for ADP1712-3.3*	—	75.00	—	—
ADP1712AUJZ-3.3-R7CT-ND	Regulator CMOS LDO, 300mA, 3.3V*	TSOT-5	1.38	1.15	.92
ADP1712AUJZ-3.3-R7TR-ND	Regulator CMOS LDO, 300mA, 3.3V*	TSOT-5	1794.00/3,000		
ADP1713AUJZ-1.2-R7CT-ND	Regulator CMOS LDO, 300mA, 1.2V*	TSOT-5	1.44	1.20	.96
ADP1713AUJZ-1.2-R7TR-ND	Regulator CMOS LDO, 300mA, 1.2V*	TSOT-5	1872.00/3,000		
ADP1713AUJZ-2.5-R7CT-ND	Regulator CMOS LDO, 300mA, 2.5V*	TSOT-5	1.44	1.20	.96
ADP1713AUJZ-2.5-R7TR-ND	Regulator CMOS LDO, 300mA, 2.5V*	TSOT-5	1872.00/3,000		
ADP1713AUJZ-3.0-R7CT-ND	Regulator CMOS LDO, 300mA, 3.0V*	TSOT-5	1.44	1.20	.96
ADP1713AUJZ-3.0-R7TR-ND	Regulator CMOS LDO, 300mA, 3.0V*	TSOT-5	1872.00/3,000		
ADP1713-3.3-EVALZ-ND	Evaluation Board for ADP1713*	—	75.00	—	—
ADP1713AUJZ-3.3-R7CT-ND	Regulator CMOS LDO, 300mA, 3.3V*	TSOT-5	1.44	1.20	.96
ADP1713AUJZ-3.3-R7TR-ND	Regulator CMOS LDO, 300mA, 3.3V*	TSOT-5	1872.00/3,000		
ADP1714AUJZ-1.2-R7CT-ND	Regulator CMOS LDO, 300mA, 1.2V*	TSOT-5	1.55	1.24	.93
ADP1714AUJZ-1.2-R7TR-ND	Regulator CMOS LDO, 300mA, 1.2V*	TSOT-5	2382.00/3,000		
ADP1714AUJZ-1.8-R7CT-ND	Regulator CMOS LDO, 300mA, 1.8V*	TSOT-5	1.55	1.24	.93
ADP1714AUJZ-1.8-R7TR-ND	Regulator CMOS LDO, 300mA, 1.8V*	TSOT-5	2382.00/3,000		
ADP1714AUJZ-3.3-R7CT-ND	Regulator CMOS LDO, 300mA, 3.3V*	TSOT-5	1.55	1.24	.93
ADP1714AUJZ-3.3-R7TR-ND	Regulator CMOS LDO, 300mA, 3.3V*	TSOT-5	2382.00/3,000		
ADP1715-EVALZ-ND	Evaluation Board for ADP1715*	—	75.00	—	—
ADP1715ARMZ-R7CT-ND	Regulator CMOS LDO, 500mA*	8-MSOP	2.05	1.64	1.23
ADP1715ARMZ-R7TR-ND	Regulator CMOS LDO, 500mA*	8-MSOP	1066.00/1,000		
ADP1715ARMZ-1.2-R7CT-ND	Regulator CMOS LDO, 500mA, 1.2V*	8-MSOP	2.05	1.64	1.23
ADP1715ARMZ-1.2-R7TR-ND	Regulator CMOS LDO, 500mA, 1.2V*	8-MSOP	1066.00/1,000		
ADP1715ARMZ-1.3-R7CT-ND	Regulator CMOS LDO, 500mA, 1.3V*	8-MSOP	2.05	1.64	1.23
ADP1715ARMZ-1.3-R7TR-ND	Regulator CMOS LDO, 500mA, 1.3V*	8-MSOP	1066.00/1,000		
ADP1715ARMZ-1.5-R7CT-ND	Regulator CMOS LDO, 500mA, 1.5V*	8-MSOP	2.05	1.64	1.23
ADP1715ARMZ-1.5-R7TR-ND	Regulator CMOS LDO, 500mA, 1.5V*	8-MSOP	1066.00/1,000		
ADP1715ARMZ-1.8-R7CT-ND	Regulator CMOS LDO, 500mA, 1.8V*	8-MSOP	2.05	1.64	1.23
ADP1715ARMZ-1.8-R7TR-ND	Regulator CMOS LDO, 500mA, 1.8V*	8-MSOP	1066.00/1,000		
ADP1715ARMZ-2.5-R7CT-ND	Regulator CMOS LDO, 500mA, 2.5V*	8-MSOP	2.05	1.64	1.23
ADP1715ARMZ-2.5-R7TR-ND	Regulator CMOS LDO, 500mA, 2.5V*	8-MSOP	1066.00/1,000		
ADP1715ARMZ-3.0-R7CT-ND	Regulator CMOS LDO, 500mA, 3.0V*	8-MSOP	2.05	1.64	1.23
ADP1715ARMZ-3.0-R7TR-ND	Regulator CMOS LDO, 500mA, 3.0V*	8-MSOP	1066.00/1,000		
ADP1715ARMZ-3.3-R7CT-ND	Regulator CMOS LDO, 500mA, 3.3V*	8-MSOP	2.05	1.64	1.23
ADP1715ARMZ-3.3-R7TR-ND	Regulator CMOS LDO, 500mA, 3.3V*	8-MSOP	1066.00/1,000		
ADP1716ARMZ-0.75R7CT-ND	Regulator CMOS LDO, 500mA, 0.75V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-0.75R7TR-ND	Regulator CMOS LDO, 500mA, 0.75V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-0.8-R7CT-ND	Regulator CMOS LDO, 500mA, 0.8V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-0.8-R7TR-ND	Regulator CMOS LDO, 500mA, 0.8V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-0.85R7CT-ND	Regulator CMOS LDO, 500mA, 0.85V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-0.85R7TR-ND	Regulator CMOS LDO, 500mA, 0.85V*	8-MSOP	1248.00/1,000		

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADP1716ARMZ-0.9-R7CT-ND	Regulator CMOS LDO, 500mA, 0.9V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-0.9-R7TR-ND	Regulator CMOS LDO, 500mA, 0.9V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-0.95R7CT-ND	Regulator CMOS LDO, 500mA, 0.95V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-0.95R7TR-ND	Regulator CMOS LDO, 500mA, 0.95V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-1.0-R7CT-ND	Regulator CMOS LDO, 500mA, 1.0V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-1.0-R7TR-ND	Regulator CMOS LDO, 500mA, 1.0V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-1.1-R7CT-ND	Regulator CMOS LDO, 500mA, 1.1V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-1.1-R7TR-ND	Regulator CMOS LDO, 500mA, 1.1V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-1.15R7CT-ND	Regulator CMOS LDO, 500mA, 1.15V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-1.15R7TR-ND	Regulator CMOS LDO, 500mA, 1.15V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-1.2-R7CT-ND	Regulator CMOS LDO, 500mA, 1.2V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-1.2-R7TR-ND	Regulator CMOS LDO, 500mA, 1.2V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-1.3-R7CT-ND	Regulator CMOS LDO, 500mA, 1.3V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-1.3-R7TR-ND	Regulator CMOS LDO, 500mA, 1.3V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-1.5-R7CT-ND	Regulator CMOS LDO, 500mA, 1.5V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-1.5-R7TR-ND	Regulator CMOS LDO, 500mA, 1.5V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-1.8-R7CT-ND	Regulator CMOS LDO, 500mA, 1.8V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-1.8-R7TR-ND	Regulator CMOS LDO, 500mA, 1.8V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-2.5-R7CT-ND	Regulator CMOS LDO, 500mA, 2.5V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-2.5-R7TR-ND	Regulator CMOS LDO, 500mA, 2.5V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-3.0-R7CT-ND	Regulator CMOS LDO, 500mA, 3.0V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-3.0-R7TR-ND	Regulator CMOS LDO, 500mA, 3.0V*	8-MSOP	1248.00/1,000		
ADP1716ARMZ-3.3-R7CT-ND	Regulator CMOS LDO, 500mA, 3.3V*	8-MSOP	2.40	1.92	1.44
ADP1716ARMZ-3.3-R7TR-ND	Regulator CMOS LDO, 500mA, 3.3V*	8-MSOP	1248.00/1,000		
ADP1720-EVALZ-ND	Evaluation Board for ADP1720*	—	75.00	—	—
ADP1720ARMZ-R7CT-ND	Regulator Micropower, 50mA, Adj.*	8-MSOP	1.25	1.00	.75
ADP1720ARMZ-R7TR-ND	Regulator Micropower, 50mA, Adj.*	8-MSOP	650.00/1,000		
ADP1720-3.3-EVALZ-ND	Evaluation Board for ADP1720-3.3*	—	75.00	—	—
ADP1720ARMZ-3.3-R7CT-ND	Regulator Micropower, 50mA, 3.3V*	8-MSOP	1.47	1.23	.98
ADP1720ARMZ-3.3-R7TR-ND	Regulator Micropower, 50mA, 3.3V*	8-MSOP	651.70/1,000		
ADP1720ARMZ-5-R7CT-ND	Regulator Micropower, 50mA, 5V*	8-MSOP	1.47	1.23	.98
ADP1720ARMZ-5-R7TR-ND	Regulator Micropower, 50mA, 5V*	8-MSOP	651.70/1,000		
ADP1720-5-EVALZ-ND	Evaluation Board for ADP1720-5* ***NEW!***	—	75.00	—	—
ADP3300ARTZ2.7RCT-ND	Regulator LDO 2.7V, 50mA*	SOT-23-6	1.58	1.26	.95
ADP3300ARTZ2.7RTR-ND	Regulator LDO 2.7V, 50mA*	SOT-23-6	1920.00/3,000		
ADP3300ARTZ3.3RCT-ND	Regulator LDO 3.3V, 50mA*	SOT-23-6	1.25	1.00	.75
ADP3300ARTZ3.3RTR-ND	Regulator LDO 3.3V, 50mA*	SOT-23-6	1920.00/3,000		
ADP3300ARTZ-5REEL7CT-ND	Regulator LDO 5V, 50mA*	SOT-23-6	1.25	1.00	.75
ADP3300ARTZ-5REEL7TR-ND	Regulator LDO 5V, 50mA*	SOT-23-6	1920.00/3,000		
ADP3301AR-3.3-ND	Regulator LDO 3.3V, 100mA	8-SOIC	2.57	2.06	1.60
ADP3301ARZ-3.3-ND	Regulator LDO 3.3V, 100mA*	8-SOIC	2.38	1.90	1.43
ADP3301ARZ-5-ND	Regulator LDO 5V, 100mA*	8-SOIC	2.38	1.90	1.43
ADP3303ARZ-3.3-ND	Regulator LDO 3.3V, 200mA*	8-SOIC	2.61	2.09	1.63
ADP3303ARZ-5-ND	Regulator LDO 5V, 200mA*	8-SOIC	2.61	2.09	1.63
ADP3309ARTZ-3.3-R7CT-ND	Regulator LDO 3.3V, 100mA*	SOT-23-5	1.38	1.15	.92
ADP3309ARTZ-3.3-R7TR-ND	Regulator LDO 3.3V, 100mA*	SOT-23-5	1794.00/3,000		
ADP3330ARTZ-2.5-R7CT-ND	Regulator LDO 2.5V, 200mA*	SOT-23-6	1.53	1.22	.92
ADP3330ARTZ-2.5-R7TR-ND	Regulator LDO 2.5V, 200mA*	SOT-23-6	2342.40/3,000		
ADP3330ARTZ3.3-RL7CT-ND	Regulator LDO 3.3V, 200mA*	SOT-23-6	1.53	1.22	.92
ADP3330ARTZ3.3-RL7TR-ND	Regulator LDO 3.3V, 200mA*	SOT-23-6	2342.40/3,000		
ADP3331ARTZ-REEL7CT-ND	Regulator LDO Adj. 200mA*	SOT-23-6	1.53	1.22	.92
ADP3331ARTZ-REEL7TR-ND	Regulator LDO Adj. 200mA*	SOT-23-6	2342.40/3,000		
ADP3334ARZ-ND	Regulator LDO Adj. 500mA*	8-SOIC	2.38	1.90	1.43
ADP3335ACPZ-3.3-R7CT-ND	Regulator LDO 3.3V, 500mA*	8-LFCSP	2.25	1.80	1.35
ADP3335ACPZ-3.3-R7TR-ND	Regulator LDO 3.3V, 500mA*	8-LFCSP	1755.00/1,500		
ADP3335ARM3.3R7CT-ND	Regulator LDO 3.3V, 500mA	8-MSOP	3.62	2.90	2.26
ADP3335ARMZ-2.5-RLCT-ND	Regulator LDO 2.5V, 500mA*	8-MSOP	2.05	1.64	1.28
ADP3335ARMZ-2.5-RLTR-ND	Regulator LDO 2.5V, 500mA*	8-MSOP	3439.80/3,000		
ADP3335ARMZ-3.3-RLCT-ND	Regulator LDO 3.3V, 500mA*	8-MSOP	2.28	1.82	1.37
ADP3335ARMZ-3.3-RLTR-ND	Regulator LDO 3.3V, 500mA*	8-MSOP	3494.40/3,000		
ADP3336ARMZ-REEL7CT-ND	Regulator LDO 500mA, Adj.*	8-MSOP	2.28	1.82	1.37
ADP3336ARMZ-REEL7TR-ND	Regulator LDO 500mA, Adj.*	8-MSOP	1183.00/1,000		
ADP3338AKCZ-1.5-R7CT-ND	Regulator LDO 1A Precision 1.5V*	SOT-223	2.81	2.25	1.75
ADP3338AKCZ-1.5-R7TR-ND	Regulator LDO 1A Precision 1.5V*	SOT-223	812.50/500		
ADP3338AKCZ-1.8-R7CT-ND	Regulator LDO 1A Precision 1.8V*	SOT-223	2.81	2.25	1.75
ADP3338AKCZ-1.8-R7TR-ND	Regulator LDO 1A Precision 1.8V*	SOT-223	812.50/500		
ADP3338AKCZ-2.5RL7CT-ND	Regulator LDO 1A Precision 2.5V*	SOT-223	2.81	2.25	1.75
ADP3338AKCZ-2.5RL7TR-ND	Regulator LDO 1A Precision 2.5V*	SOT-223	812.50/500		
ADP3338AKCZ-3.3RL7CT-ND	Regulator LDO 1A Precision 3.3V*	SOT-223	2.81	2.25	1.75
ADP3338AKCZ-3.3RL7TR-ND	Regulator LDO 1A Precision 3.3V*	SOT-223	812.50/500		
ADP3338AKCZ-5-R7CT-ND	Regulator LDO 1A Precision 5V*	SOT-223	2.81	2.25	1.75
ADP3338AKCZ-5-R7TR-ND	Regulator LDO 1A Precision 5V*	SOT-223	812.50/500		
ADP3339AKCZ-1.5-R7CT-ND	Regulator LDO 1.5A, 1.5V*	SOT-223	2.79	2.24	1.74
ADP3339AKCZ-1.5-R7TR-ND	Regulator LDO 1.5A, 1.5V*	SOT-223	806.00/500		
ADP3339AKCZ-1.8-R7CT-ND	Regulator LDO 1.5A, 1.8V*	SOT-223	2.79	2.24	1.74
ADP3339AKCZ-1.8-R7TR-ND	Regulator LDO 1.5A, 1.8V*	SOT-223	806.00/500		
ADP3339AKCZ-2.5-R7CT-ND	Regulator LDO 1.5A, 2.5V*	SOT-223	2.79	2.24	1.74
ADP3339AKCZ-2.5-R7TR-ND	Regulator LDO 1.5A, 2.5V*	SOT-223	806.00/500		
ADP3339AKCZ-3-RL7CT-ND	Regulator LDO 1.5A, 3V*	SOT-223	2.79	2.24	1.74
ADP3339AKCZ-3-RL7TR-ND	Regulator LDO 1.5A, 3V*	SOT-223	806.00/500		
ADP3339AKCZ-3.3-R7CT-ND	Regulator LDO 1.5A, 3.3V*	SOT-223	2.79	2.24	1.74
ADP3339AKCZ-3.3-R7TR-ND	Regulator LDO 1.5A, 3.3V*	SOT-223	806.00/500		
ADP3339AKCZ-5-R7CT-ND	Regulator LDO 1.5A, 5V*	SOT-223	2.79	2.24	1.74
ADP3339AKCZ-5-R7TR-ND	Regulator LDO 1.5A, 5V*	SOT-223	806.00/500		
ADP3367AR-ND	Regulator LDO Adjustable 5V	8-SOIC	4.79	3.84	2.99
ADP3367ARZ-ND	Regulator LDO Adjustable 5V*	8-SOIC	4.37	3.50	2.72

Voltage Reference

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD580JH-ND	Precision Voltage Reference 2.5V*	TO-52	6.01	4.81	3.74
AD580LH-ND	Precision Voltage Reference 2.5V*	TO-52	12.41	11.18	9.91
AD580TH-ND	Precision Voltage Reference 2.5V*	TO-52	21.38	19.95	18.53
AD581JH-ND	Precision Voltage Reference 10V*	TO-5	8.20	6.56	5.54
AD581KH-ND	Precision Voltage Reference 10V*	TO-5	10.71	9.65	8.56
AD581LH-ND	Precision Voltage Reference 10V*	TO-5	19.68	18.37	17.06
AD581UH-ND	Precision Voltage Reference 10V*	TO-5	43.82	40.90	37.98
AD584JH-ND	Precision Voltage Reference Programmable	TO-99	9.68	7.75	6.54
AD584JNZ-ND	Precision Voltage Reference Programmable*	8-Dip	6.08	4.87	4.11
AD584KNZ-ND	Precision Voltage Reference Programmable*	8-Dip	9.98	8.99	7.97
AD584LH-ND	Precision Voltage Reference Programmable	TO-99	24.18	22.57	20.96
AD584TH-ND	Precision Voltage Reference Programmable	TO-99	29.76	27.78	25.80
AD586AR-ND	Precision Voltage Reference 5V	8-SOIC	10.10	8.08	6.82
AD586ARZ-ND	Precision Voltage Reference 5V*	8-SOIC	8.03	7.23	6.42
AD586ARZ-REELCT-ND	Precision Voltage Reference 5V*	8-SOIC	8.03	7.23	6.42

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

ANALOG DEVICES Digi-Reel®

POWER MANAGEMENT *(Continued)*

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
AD586ARZ-REELTR-ND	Precision Voltage Reference 5V*	8-SOIC	14942.00/2,500		
AD586BRZ-ND	Precision Voltage Reference 5V*	8-SOIC	11.20	10.08	8.94
AD586BRZ-REELCT-ND	Precision Voltage Reference 5V*	8-SOIC	11.20	10.08	8.94
AD586BRZ-REELTR-ND	Precision Voltage Reference 5V*	8-SOIC	20412.00/2,500		
AD586JRZ-ND	Precision Voltage Reference 5V*	8-SOIC	5.82	4.66	3.93
AD586KN-ND	Precision Voltage Reference 5V	8-Dip	7.40	5.92	5.00
AD586KNZ-ND	Precision Voltage Reference 5V*	8-Dip	7.06	5.65	4.77
AD586KR-REEL7CT-ND	Precision Voltage Reference 5V	8-SOIC	9.34	7.48	6.31
AD586KR-REEL7TR-ND	Precision Voltage Reference 5V	8-SOIC	3829.05/750		
AD586KRZ-ND	Precision Voltage Reference 5V*	8-SOIC	7.68	6.15	5.19
AD586LR-REEL7CT-ND	Precision Voltage Reference 5V	8-SOIC	10.68	9.62	8.53
AD586LR-REEL7TR-ND	Precision Voltage Reference 5V	8-SOIC	5165.63/750		
AD586LR-ND	Precision Voltage Reference 5V	8-SOIC	11.02	8.82	7.44
AD586LRZ-ND	Precision Voltage Reference 5V*	8-SOIC	8.78	7.91	7.01
AD586MNZ-ND	Precision Voltage Reference 5V*	8-Dip	9.46	8.52	7.56
AD587JNZ-ND	Precision Voltage Reference 10V*	8-Dip	5.10	4.08	3.45
AD587JRZ-ND	Precision Voltage Reference 10V*	8-SOIC	5.82	4.66	3.93
AD587KN-ND	Precision Voltage Reference 10V	8-Dip	6.08	4.87	4.11
AD587KNZ-ND	Precision Voltage Reference 10V* ***NEW!***	8-Dip	5.82	4.66	3.93
AD587KRZ-ND	Precision Voltage Reference 10V*	8-SOIC	6.58	5.27	4.45
AD588AQ-ND	Precision Voltage Reference Programmable	16-Dip	25.01	23.34	21.68
AD588BQ-ND	Precision Voltage Reference Programmable	16-Dip	46.02	42.96	39.89
AD588JQ-ND	Precision Voltage Reference Programmable	16-Dip	21.44	20.01	18.58
AD588KQ-ND	Precision Voltage Reference Programmable	16-Dip	37.50	35.00	32.50
AD589JH-ND	Voltage Reference 1.235V, 2-Terminal*	H-02A	7.60	6.08	5.13
AD589JRZ-ND	Voltage Reference 1.235V, 2-Terminal*	8-SOIC	3.67	2.94	2.29
AD589KH-ND	Voltage Reference 1.235V, 2-Terminal	H-02A	8.24	6.60	5.57
AD680ANZ-ND	Voltage Reference 2.5V, Low Power*	8-Dip	6.26	5.01	4.23
AD680JR-REEL7CT-ND	Voltage Reference 2.5V Low Power	8-SOIC	4.73	3.78	2.94
AD680JRZ-ND	Voltage Reference 2.5V Low Power*	8-SOIC	4.01	3.21	2.50
AD680JTZ-ND	Voltage Reference 2.5V Low Power*	TO-92	4.01	3.21	2.50
AD688AQ-ND	Precision Voltage Reference +/-10V	16-Dip	22.89	21.37	19.84
AD688BQ-ND	Precision Voltage Reference +/-10V	16-CDip	38.60	36.03	33.45
AD780ANZ-ND	Precision Voltage Reference 2.5V/3.0V*	8-Dip	7.68	6.15	5.19
AD780ARZ-ND	Precision Voltage Reference 2.5V/3.0V*	8-SOIC	7.68	6.15	5.19
AD780ARZ-REEL7CT-ND	Precision Voltage Reference 2.5V/3.0V*	8-SOIC	7.68	6.15	5.19
AD780ARZ-REEL7TR-ND	Precision Voltage Reference 2.5V/3.0V*	8-SOIC	4800.00/1,000		
AD780BNZ-ND	Precision Voltage Reference 2.5V/3.0V*	8-Dip	9.21	8.30	7.36
AD780BRZ-ND	Precision Voltage Reference 2.5V/3.0V*	8-SOIC	9.21	8.30	7.36
AD1580ARTZ-REEL7CT-ND	Voltage Reference 1.225V*	SOT-23	1.48	1.18	.89
AD1580ARTZ-REEL7TR-ND	Voltage Reference 1.225V*	SOT-23	2496.00/3,000		
AD1580BRTZ-REEL7CT-ND	Voltage Reference 1.225V*	SOT-23	2.55	2.04	1.53
AD1580BRTZ-REEL7TR-ND	Voltage Reference 1.225V*	SOT-23	4302.00/3,000		
AD1582ARTZREEL7CT-ND	Voltage Reference 2.5V*	SOT-23	1.30	1.04	.78
AD1582ARTZREEL7TR-ND	Voltage Reference 2.5V*	SOT-23	1996.80/3,000		
AD1582BRTZREEL7CT-ND	Voltage Reference 2.5V*	SOT-23	1.78	1.42	1.07
AD1582BRTZREEL7TR-ND	Voltage Reference 2.5V*	SOT-23	2726.40/3,000		
AD1583BRTZ-REEL7CT-ND	Voltage Reference 3V*	SOT-23	1.78	1.42	1.07
AD1583BRTZ-REEL7TR-ND	Voltage Reference 3V*	SOT-23	2726.40/3,000		
AD1584ARTZ-REEL7CT-ND	Voltage Reference 4.096V*	SOT-23	1.30	1.04	.78
AD1584ARTZ-REEL7TR-ND	Voltage Reference 4.096V*	SOT-23	1996.80/3,000		
AD1584BRTZ-REEL7CT-ND	Voltage Reference 4.096V*	SOT-23	1.78	1.42	1.07
AD1584BRTZ-REEL7TR-ND	Voltage Reference 4.096V*	SOT-23	2726.40/3,000		
ADR01ARZ-ND	Precision Voltage Reference 10V, 10mA*	8-SOIC	2.35	1.88	1.41
ADR01AUJZ-REEL7CT-ND	Precision Voltage Reference 10V, 10mA*	TSOT-23-5	2.38	1.90	1.43
ADR01AUJZ-REEL7TR-ND	Precision Voltage Reference 10V, 10mA*	TSOT-23-5	3648.00/3,000		
ADR01BRZ-ND	Precision Voltage Reference 10V, 10mA*	8-SOIC	4.88	3.91	3.04
ADR02AKSZ-REEL7CT-ND	Precision Voltage Reference 5V, 10mA*	SC70-5	2.39	1.91	1.49
ADR02AKSZ-REEL7TR-ND	Precision Voltage Reference 5V, 10mA*	SC70-5	4006.80/3,000		
ADR02ARZ-ND	Precision Voltage Reference 5V, 10PPM*	8-SOIC	2.35	1.88	1.41
ADR02AUJZ-REEL7CT-ND	Precision Voltage Reference 5V, 25PPM*	TSOT-23-5	2.38	1.90	1.43
ADR02AUJZ-REEL7TR-ND	Precision Voltage Reference 5V, 25PPM*	TSOT-23-5	3648.00/3,000		
ADR02BKSZ-REEL7CT-ND	Precision Voltage Reference 5V, 10mA*	SC70-5	4.37	3.50	2.72
ADR02BKSZ-REEL7TR-ND	Precision Voltage Reference 5V, 10mA*	SC70-5	7333.20/3,000		
ADR02BRZ-ND	Precision Voltage Reference 5V, 3PPM*	8-SOIC	4.88	3.91	3.04
ADR02BUJZ-REEL7CT-ND	Precision Voltage Reference 5V, 9PPM*	TSOT-23-5	4.37	3.50	2.72
ADR02BUJZ-REEL7TR-ND	Precision Voltage Reference 5V, 9PPM*	TSOT-23-5	7333.20/3,000		
ADR03AKS-R2CT-ND	Precision Voltage Reference 2.5V, 10mA	SC70-5	2.48	1.98	1.54
ADR03AKS-R2TR-ND	Precision Voltage Reference 2.5V, 10mA	SC70-5	365.75/250		
ADR03AKSZ-REEL7CT-ND	Precision Voltage Reference 2.5V, 10mA*	SC70-5	2.39	1.91	1.49
ADR03AKSZ-REEL7TR-ND	Precision Voltage Reference 2.5V, 10mA*	SC70-5	4006.80/3,000		
ADR03ARZ-ND	Precision Voltage Reference 2.5V, 10mA*	8-SOIC	2.35	1.88	1.41
ADR03AUJZ-REEL7CT-ND	Precision Voltage Reference 2.5V, 10mA*	TSOT-23-5	2.38	1.90	1.43
ADR03AUJZ-REEL7TR-ND	Precision Voltage Reference 2.5V, 10mA*	TSOT-23-5	3648.00/3,000		
ADR03BKSZ-REEL7CT-ND	Precision Voltage Reference 2.5V, 10mA*	SC70-5	4.37	3.50	2.72
ADR03BKSZ-REEL7TR-ND	Precision Voltage Reference 2.5V, 10mA*	SC70-5	7333.20/3,000		
ADR03BRZ-ND	Precision Voltage Reference 2.5V, 10mA*	8-SOIC	4.88	3.91	3.04
ADR03BUJZ-REEL7CT-ND	Precision Voltage Reference 2.5V, 10mA*	TSOT-23-5	4.37	3.50	2.72
ADR03BUJZ-REEL7TR-ND	Precision Voltage Reference 2.5V, 10mA*	TSOT-23-5	7333.20/3,000		
ADR06AKSZ-REEL7CT-ND	Precision Voltage Reference 3V, 10mA*	SC70-5	2.39	1.91	1.49
ADR06AKSZ-REEL7TR-ND	Precision Voltage Reference 3V, 10mA*	SC70-5	4006.80/3,000		
ADR06ARZ-ND	Precision Voltage Reference 3V, 10mA*	8-SOIC	2.35	1.88	1.41
ADR06BKSZ-REEL7CT-ND	Precision Voltage Reference 3V, 10mA*	SC70-5	4.37	3.50	2.72
ADR06BKSZ-REEL7TR-ND	Precision Voltage Reference 3V, 10mA*	SC70-5	7333.20/3,000		
ADR06BRZ-ND	Precision Voltage Reference 3V, 3PPM*	8-SOIC	4.88	3.91	3.04
ADR06BUJ-R2CT-ND	Precision Voltage Reference 3V, 10mA	TSOT-23-5	6.12	4.90	4.14
ADR06BUJ-R2TR-ND	Precision Voltage Reference 3V, 10mA	TSOT-23-5	794.68/250		
ADR121AUJZ-REEL7CT-ND	Precision Voltage Reference 2.5V*	TSOT-23-6	2.28	1.82	1.37
ADR121AUJZ-REEL7TR-ND	Precision Voltage Reference 2.5V*	TSOT-23-6	3494.40/3,000		
ADR125AUJZ-REEL7CT-ND	Precision Voltage Reference 5V*	TSOT-23-6	2.28	1.82	1.37
ADR125AUJZ-REEL7TR-ND	Precision Voltage Reference 5V*	TSOT-23-6	3494.40/3,000		
ADR127AUJZ-REEL7CT-ND	Precision Voltage Reference 1.25V*	TSOT-23-6	2.28	1.82	1.37
ADR127AUJZ-REEL7TR-ND	Precision Voltage Reference 1.25V*	TSOT-23-6	3494.40/3,000		
ADR130AUJZ-REEL7CT-ND	Precision Voltage Reference Sub-Band Gap*	TSOT-6	2.28	1.82	1.37
ADR130AUJZ-REEL7TR-ND	Precision Voltage Reference Sub-Band Gap*	TSOT-6	3494.40/3,000		
ADR130BUJZ-REEL7CT-ND	Precision Voltage Reference Sub-Band Gap*	TSOT-6	3.35	2.69	2.09
ADR130BUJZ-REEL7TR-ND	Precision Voltage Reference Sub-Band Gap*	TSOT-6	5632.20/3,000		
ADR280AKSZ-REEL7CT-ND	Voltage Reference High PSRR 1.2V*	SC70	1.88	1.50	1.13
ADR280AKSZ-REEL7TR-ND	Voltage Reference High PSRR 1.2V*	SC70	2880.00/3,000		
ADR280ARTZ-REEL7CT-ND	Voltage Reference High PSRR 1.2V*	SOT-23	1.88	1.50	1.13
ADR280ARTZ-REEL7TR-ND	Voltage Reference High PSRR 1.2V*	SOT-23	2880.00/3,000		
ADR291ERZ-ND	Precision Voltage Reference 2.5V, 5mA Out*	8-SOIC	10.01	9.02	8.00
ADR291FRZ-ND	Precision Voltage Reference 2.5V, 5mA Out*	8-SOIC	5.64	4.52	3.81
ADR291GRUZ-ND	Precision Voltage Reference 2.5V, 5mA Out*	8-TSSOP	5.60	4.49	3.49
ADR291GRZ-ND	Precision Voltage Reference 2.5V, 5mA Out*	8-SOIC	4.46	3.57	2.78

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
ADR292ERZ-ND	Precision Voltage Reference 4.096V, 5mA*	8-SOIC	10.01	9.02	8.00
ADR292GRZ-ND	Precision Voltage Reference 4.096V, 5mA*	8-SOIC	4.46	3.57	2.78
ADR292GRUZ-ND	Precision Voltage Reference 4.096V, 5mA*	8-TSSOP	5.60	4.49	3.49
ADR293GRZ-ND	Precision Voltage Reference 5V*	8-SOIC	4.46	3.57	2.78
ADR293ERZ-ND	Precision Voltage Reference 5V*	8-SOIC	10.01	9.02	8.00
ADR318ARJ-R2CT-ND	Precision Reference Low Drift	SOT-23-5	3.11	2.49	1.94
ADR318ARJZ-REEL7CT-ND	Precision Reference Low Drift* ***NEW!***	SOT-23-5	2.03	1.62	1.22
ADR318ARJZ-REEL7TR-ND	Precision Reference Low Drift* ***NEW!***	SOT-23-5	3110.40/3,000		
ADR360AUJZ-R2CT-ND	Precision Reference Low Power 2.048V*	5-TSOT	2.60	2.08	1.56
ADR360AUJZ-R2TR-ND	Precision Reference Low Power 2.048V*	5-TSOT	345.80/250		
ADR360BUJZ-R2CT-ND	Precision Reference Low Power 2.048V*	5-TSOT	3.56	2.85	2.22
ADR360BUJZ-R2TR-ND	Precision Reference Low Power 2.048V*	5-TSOT	525.35/250		
ADR361AUJZ-R2CT-ND	Precision Reference Low Power 2.5V*	5-TSOT	2.35	1.88	1.41
ADR361AUJZ-R2TR-ND	Precision Reference Low Power 2.5V*	5-TSOT	329.00/250		
ADR363BUJZ-R2CT-ND	Precision Reference Low Power 3V*	5-TSOT	3.35	2.69	2.09
ADR363BUJZ-R2TR-ND	Precision Reference Low Power 3V*	5-TSOT	495.43/250		
ADR365AUJZ-R2CT-ND	Precision Reference Low Power 5V*	5-TSOT	2.35	1.88	1.41
ADR365AUJZ-R2TR-ND	Precision Reference Low Power 5V*	5-TSOT	329.00/250		
ADR366AUJZ-R2CT-ND	Precision Reference Low Power 3.3V*	5-TSOT	2.35	1.88	1.41
ADR366AUJZ-R2TR-ND	Precision Reference Low Power 3.3V*	5-TSOT	329.00/250		
ADR370ARTZ-REEL7CT-ND	Precision Reference Low Power 2.048V*	SOT-23	1.85	1.48	1.11
ADR370ARTZ-REEL7TR-ND	Precision Reference Low Power 2.048V*	SOT-23	2841.60/3,000		
ADR370BRTZ-REEL7CT-ND	Precision Reference Low Power 2.048V*	SOT-23	2.45	1.96	1.47
ADR370BRTZ-REEL7TR-ND	Precision Reference Low Power 2.048V*	SOT-23	3763.20/3,000		
ADR380ARTZ-REEL7CT-ND	Precision Voltage Reference 2.048V Low Drift*	SOT-23	1.63	1.30	.98
ADR380ARTZ-REEL7TR-ND	Precision Voltage Reference 2.048V Low Drift*	SOT-23	2496.00/3,000		
ADR381ARTZ-REEL7CT-ND	Precision Voltage Reference 2.5V Low Drift*	SOT-23	1.63	1.30	.98
ADR381ARTZ-REEL7TR-ND	Precision Voltage Reference 2.5V Low Drift*	SOT-23	2496.00/3,000		
ADR390AUJZREEL7CT-ND	Micropower, Low Noise Precision Voltage Reference 2.048V*	TSOT-23-5	1.93	1.54	1.16
ADR390AUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 2.048V*	TSOT-23-5	2956.80/3,000		
ADR390BUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 2.048V*	TSOT-23-5	2.40	1.92	1.62
ADR390BUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 2.048V*	TSOT-23-5	4536.00/3,000		
ADR391AUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 2.5V*	TSOT-23-5	1.93	1.54	1.16
ADR391AUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 2.5V*	TSOT-23-5	2956.80/3,000		
ADR391BUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 2.5V*	TSOT-23-5	2.70	2.16	1.62
ADR391BUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 2.5V*	TSOT-23-5	4536.00/3,000		
ADR392AUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 4.096V*	TSOT-23-5	1.93	1.54	1.16
ADR392AUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 4.096V*	TSOT-23-5	2956.80/3,000		
ADR392BUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 4.096V*	TSOT-23-5	2.40	1.92	1.62
ADR392BUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 4.096V*	TSOT-23-5	4536.00/3,000		
ADR395AUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 5V*	TSOT-23-5	1.93	1.54	1.16
ADR395AUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 5V*	TSOT-23-5	2956.80/3,000		
ADR395BUJZREEL7CT-ND	Micropower, LN Precision Voltage Ref. 5V*	TSOT-23-5	2.70	2.16	1.68
ADR395BUJZREEL7TR-ND	Micropower, LN Precision Voltage Ref. 5V*	TSOT-23-5	4536.00/3,000		
ADR420ARZ-ND	Precision Voltage Reference 2.048V, 10mA*	8-SOIC	6.18	4.95	4.18
ADR420BRZ-ND	Precision Voltage Reference 2.048V, 10mA*	8-SOIC	8.51	7.67	6.80
ADR421ARZ-ND	Precision Reference Low Noise 2.50V*	8-SOIC	6.18	4.95	4.18
ADR421ARMZ-ND	Precision Reference Low Noise 2.50V*	8-MSOP	6.18	4.95	4.18
ADR421BRZ-ND	Precision Reference Low Noise 2.50V*	8-SOIC	8.51	7.67	6.80
ADR423AR-ND	Precision Voltage Reference 3V, 10mA Out	8-SOIC	7.27	5.82	4.53
ADR423ARZ-ND	Precision Voltage Reference 3V, 10mA Out*	8-SOIC	6.18	4.95	4.18
ADR425ARZ-ND	Precision Voltage Reference 5V, 10mA Out*	8-SOIC	6.18	4.95	4.18
ADR425BRZ-ND	Precision Voltage Reference 5V, 10mA Out*	8-SOIC	8.51	7.67	6.80
ADR430ARMZ-ND	2.048V, XFET® Voltage Reference*	8-MSOP	6.28	5.03	4.24
ADR430BRZ-ND	2.048V, XFET® Voltage Reference*	8-SOIC	8.51	7.67	6.80
ADR431ARMZ-ND	2.5V, XFET® Voltage Reference*	8-MSOP	6.28	5.03	4.24
ADR431ARZ-ND	2.5V, XFET® Voltage Reference*	8-SOIC	6.28	5.03	4.24
ADR431BRZ-ND	2.5V, XFET® Voltage Reference*	8-SOIC	9.36	7.49	6.32
ADR433BRZ-ND	3V, XFET® Voltage Reference*	8-SOIC	9.36	7.49	6.32
ADR434ARMZ-ND	4.096V, XFET® Voltage Reference*	8-MSOP	6.28	5.03	4.24
ADR434ARZ-ND	4.096V, XFET® Voltage Reference*	8-SOIC	9.36	7.49	6.32
ADR434BRZ-ND	4.096V, XFET® Voltage Reference*	8-SOIC	9.36	7.49	6.32
ADR435ARZ-ND	5V, XFET® Voltage Reference*	8-SOIC	6.28	5.03	4.24
ADR435ARMZ-ND	5V, XFET® Voltage Reference*	8-MSOP	6.28	5.03	4.24
ADR435BRZ-ND	5V, XFET® Voltage Reference*	8-SOIC	9.36	7.49	6.32
ADR439AR-ND	4.5V, XFET® Voltage Reference	8-SOIC	7.38	5.91	4.60
ADR439ARM-ND	4.5V, XFET® Voltage Reference	8-MSOP	7.38	5.91	4.60
ADR440BRZ-ND	2.048 LDO XFET® Voltage Reference*	8-SOIC	6.82	5.46	4.61
ADR443ARZ-ND	3V, LDO XFET® Voltage Reference*	8-SOIC	4.88	3.91	3.04
ADR443BRZ-ND	3V, LDO XFET® Voltage Reference*	8-SOIC	6.82	5.46	4.61
ADR444ARMZ-ND	4.096V, LDO XFET® Reference*	8-MSOP	5.15	4.13	3.21
ADR444ARZ-ND	4.096V, LDO XFET® Reference*	8-SOIC	4.88	3.91	3.04
ADR444BRZ-ND	4.096V, LDO XFET® Voltage Reference*	8-SOIC	6.82	5.46	4.61
ADR445ARMZ-ND	5V, LDO XFET® Voltage Reference*	8-MSOP	5.15	4.13	3.21
ADR445ARZ-ND	5V, LDO XFET® Voltage Reference*	8-SOIC	4.88	3.91	3.04
ADR445BRZ-ND	5V, LDO XFET® Voltage Reference*	8-SOIC	6.82	5.46	4.61
ADR510ARTZ-REEL7CT-ND	1V, Precision Reference Shunt*	SOT-23	1.48	1.18	.89
ADR510ARTZ-REEL7TR-ND	1V, Precision Reference Shunt*	SOT-23	2265.60/3,000		
ADR512ART-R2CT-ND	1.2V, Precision Reference Shunt	SOT-23	1.67	1.34	1.04
ADR512ART-R2TR-ND	1.2V, Precision Reference Shunt	SOT-23	246.00/250		
ADR512ARTZ-REEL7CT-ND	1.2V, Precision Reference Shunt* ***NEW!***	SOT-23	1.28	1.02	.77
ADR512ARTZ-REEL7TR-ND	1.2V, Precision Reference Shunt* ***NEW!***	SOT-23	1958.40/3,000		
ADR520ARTZ-REEL7CT-ND	Voltage Reference Shunt 2.048V*	SOT-23	1.11	.93	.74
ADR520ARTZ-REEL7TR-ND	Voltage Reference Shunt 2.048V*	SOT-23	1560.00/3,000		
ADR520BKSZ-REEL7CT-ND	Voltage Reference Shunt 2.048V*	SC-70	1.93	1.54	1.16
ADR520BKSZ-REEL7TR-ND	Voltage Reference Shunt 2.048V*	SC-70	3225.00/3,000		
ADR520BRTZ-REEL7CT-ND	Voltage Reference Shunt 2.048V*	SOT-23	1.78	1.42	1.07
ADR520BRTZ-REEL7TR-ND	Voltage Reference Shunt 2.048V*	SOT-23	2958.00/3,000		
ADR525ART-R2CT-ND	Voltage Reference Shunt 2.5V	SOT-23	1.44	1.20	.96
ADR525ART-R2TR-ND	Voltage Reference Shunt 2.5V	SOT-23	176.25/250		
ADR525ARTZ-REEL7CT-ND	Voltage Reference Shunt 2.5V*	SOT-23	1.11	.93	.74
ADR525ARTZ-REEL7TR-ND	Voltage Reference Shunt 2.5V*	SOT-23	1560.00/3,000		
ADR525BKS-R2CT-ND	Voltage Reference Shunt 2.5V	SC-70	2.43	1.94	1.46
ADR525BKS-R2TR-ND	Voltage Reference Shunt 2.5V	SC-70	322.00/250		
ADR525BKSZ-REEL7CT-ND	Voltage Reference Shunt 2.5V*	SC-70	1.93	1.54	1.16
ADR525BKSZ-REEL7TR-ND	Voltage Reference Shunt 2.5V*	SC-70	1560.00/3,000		
ADR525BRT-R2CT-ND	Voltage Reference Shunt 2.5V	SOT-23	2.23	1.78	1.34
ADR525BRT-R2TR-ND	Voltage Reference Shunt 2.5V	SOT-23	294.00/250		
ADR525BRTZ-REEL7CT-ND	Voltage Reference Shunt 2.5V* ***NEW!***	SOT-23	1.93	1.54	1.16

* ***RoHS Compliant***

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

POWER MANAGEMENT *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADR525BRTZ-REEL7TR-ND	Voltage Reference Shunt 2.5V* ***NEW!***	SOT-23	2956.80/3,000		
ADR530BKS-R2CT-ND	Voltage Reference Shunt 3.0V	SC-70	2.43	1.94	1.46
ADR530BKS-R2TR-ND	Voltage Reference Shunt 3.0V	SC-70	322.00/250		
ADR530BKSZ-REEL7CT-ND	Voltage Reference Shunt 3.0V* ***NEW!***	SC-70	2.10	1.68	1.26
ADR530BKSZ-REEL7TR-ND	Voltage Reference Shunt 3.0V* ***NEW!***	SC-70	3225.60/3,000		
ADR530BRTZ-REEL7CT-ND	Voltage Reference Shunt 3.0V*	SOT-23	1.78	1.42	1.07
ADR530BRTZ-REEL7TR-ND	Voltage Reference Shunt 3.0V*	SOT-23	2958.00/3,000		
ADR540ART-R2CT-ND	Voltage Reference Shunt 4.096V	SOT-23	1.44	1.20	.96
ADR540ART-R2TR-ND	Voltage Reference Shunt 4.096V	SOT-23	172.50/250		
ADR540BKSZ-REEL7CT-ND	Voltage Reference Shunt 4.096V* ***NEW!***	SC-70	2.10	1.68	1.26
ADR540BKSZ-REEL7TR-ND	Voltage Reference Shunt 4.096V* ***NEW!***	SC-70	3225.60/3,000		
ADR550BRT-R2CT-ND	Voltage Reference Shunt 5.0V	SOT-23	2.23	1.78	1.34
ADR550BRT-R2TR-ND	Voltage Reference Shunt 5.0V	SOT-23	294.00/250		
ADR550BRTZ-REEL7CT-ND	Voltage Reference Shunt 5.0V* ***NEW!***	SOT-23	1.93	1.54	1.16
ADR550BRTZ-REEL7TR-ND	Voltage Reference Shunt 5.0V* ***NEW!***	SOT-23	2956.80/3,000		
ADR821ARMZ-REEL7CT-ND	2.5V, LP, Precision Ref. and Op Amp* ***NEW!***	10-MSOP	2.75	2.20	1.65
ADR821ARMZ-REEL7TR-ND	2.5V, LP, Precision Ref. and Op Amp* ***NEW!***	10-MSOP	1402.50/1,000		
ADR821BRMZ-REEL7CT-ND	2.5V, LP, Precision Ref. and Op Amp* ***NEW!***	10-MSOP	3.22	2.58	2.01
ADR821BRMZ-REEL7TR-ND	2.5V, LP, Precision Ref. and Op Amp* ***NEW!***	10-MSOP	1823.25/1,000		
ADR827ARMZ-REEL7CT-ND	1.25V, LP, Precision Ref. and Op Amp* ***NEW!***	10-MSOP	2.75	2.20	1.65
ADR827ARMZ-REEL7TR-ND	1.25V, LP, Precision Ref. and Op Amp* ***NEW!***	10-MSOP	1402.50/1,000		
ADR827BRMZ-REEL7CT-ND	1.25V, LP, Precision Ref. and Op Amp* ***NEW!***	10-MSOP	3.22	2.58	2.01
ADR827BRMZ-REEL7TR-ND	1.25V, LP, Precision Ref. and Op Amp* ***NEW!***	10-MSOP	1823.25/1,000		
ADR1581ARTZ-REEL7CT-ND	Voltage Reference Shunt 1.25V*	SOT-23	1.50	1.20	.90
ADR1581ARTZ-REEL7TR-ND	Voltage Reference Shunt 1.25V*	SOT-23	2304.00/3,000		
ADR5040ARTZ-REEL7CT-ND	Voltage Reference Shunt 2.048V*	SOT-23	.90	.75	.60
ADR5040ARTZ-REEL7TR-ND	Voltage Reference Shunt 2.048V*	SOT-23	1170.00/3,000		
ADR5041ARTZ-REEL7CT-ND	Voltage Reference Shunt 2.5V*	SC-70	.90	.75	.60
ADR5041ARTZ-REEL7TR-ND	Voltage Reference Shunt 2.5V*	SC-70	1170.00/3,000		
ADR5041BKSZ-REEL7CT-ND	Voltage Reference Shunt 2.5V*	SC-70	1.41	1.18	.94
ADR5041BKSZ-REEL7TR-ND	Voltage Reference Shunt 2.5V*	SC-70	1833.00/3,000		
REF01CPZ-ND	Precision Voltage Reference 10V*	8-Dip	2.73	2.18	1.64
REF01CSZ-ND	Precision Voltage Reference 10V*	8-SOIC	2.63	2.10	1.58
REF01EZ-ND	Precision Voltage Reference 10V*	8-CDip	9.45	8.51	7.55
REF01HPZ-ND	Precision Voltage Reference 10V*	8-Dip	3.74	2.99	2.33
REF02AZ-ND	Precision Voltage Reference/Temp. 5V Transducer*	8-CDip	29.81	27.82	25.84
REF02CPZ-ND	Precision Voltage Reference 5V*	8-Dip	2.73	2.18	1.64
REF02CS-REEL7CT-ND	Precision Voltage Reference 5V	8-SOIC	2.48	1.98	1.54
REF02CS-REEL7TR-ND	Precision Voltage Reference 5V	8-SOIC	1403.00/1,000		
REF02CSZ-ND	Precision Voltage Reference 5V*	8-SOIC	2.63	2.10	1.58
REF02EZADI-ND	Precision Voltage Reference 5V*	8-CDip	9.45	8.51	7.55
REF02HPZ-ND	Precision Voltage Reference 5V*	8-Dip	3.74	2.99	2.33
REF02HSZ-ND	Precision Voltage Reference 5V*	8-SOIC	4.14	3.32	2.58
REF03GPZ-ND	Precision Voltage Reference 2.5V*	8-Dip	2.73	2.18	1.64
REF03GSZ-ND	Precision Voltage Reference 2.5V*	8-SOIC	2.60	2.08	1.56
REF43GPZ-ND	Precision Voltage Reference Low Power 2.5V*	8-Dip	7.38	5.91	4.99
REF43GSZ-ND	Precision Voltage Reference Low Power 2.5V*	8-SOIC	7.38	5.91	4.99
REF43GZ-ND	Precision Voltage Reference Low Power 2.5V*	8-CDip	6.32	5.06	4.27
REF191ESZ-ND	Voltage Reference LDO 2.048V*	8-SOIC	4.79	3.84	2.99
REF191GSZ-ND	Voltage Reference LDO 2.048V*	8-SOIC	2.68	2.15	1.67
REF192ESZ-ND	Voltage Reference LDO 2.5V*	8-SOIC	4.79	3.84	2.99
REF192FSZ-ND	Voltage Reference LDO 2.5V*	8-SOIC	3.74	2.99	2.33
REF192GPZ-ND	Voltage Reference LDO 2.5V*	8-Dip	2.68	2.15	1.67
REF192GRUZ-ND	Voltage Reference LDO 2.5V*	8-TSSOP	4.21	3.37	2.62
REF192GRUZREEL7CT-ND	Voltage Reference LDO 2.5V*	8-TSSOP	3.83	3.06	2.38
REF192GRUZREEL7TR-ND	Voltage Reference LDO 2.5V*	8-TSSOP	2384.00/1,000		
REF192GSZ-ND	Voltage Reference LDO 2.5V*	8-SOIC	2.68	2.15	1.67
REF193GSZ-ND	Voltage Reference LDO 3V*	8-SOIC	2.68	2.15	1.67
REF194ESZ-ND	Voltage Reference LDO 4.5V*	8-SOIC	4.37	3.50	2.72
REF194GSZ-ND	Voltage Reference LDO 4.5V*	8-SOIC	2.68	2.15	1.67
REF195ESZ-ND	Voltage Reference LDO 5V*	8-SOIC	4.37	3.50	2.72
REF195FSZ-ND	Voltage Reference LDO 5V*	8-SOIC	3.40	2.72	2.12
REF195FS-REELCT-ND	Voltage Reference LDO 5V	8-SOIC	3.74	2.99	2.33
REF195FS-REELTR-ND	Voltage Reference LDO 5V	8-SOIC	5230.00/2,500		
REF195GPZ-ND	Voltage Reference LDO 5V*	8-Dip	2.43	1.95	1.52
REF195GSZ-ND	Voltage Reference LDO 5V*	8-SOIC	2.68	2.15	1.67
REF196GSZ-ND	Voltage Reference LDO 3.3V*	8-SOIC	2.68	2.15	1.67
REF198ESZ-ND	Voltage Reference LDO 4.096V*	8-SOIC	4.79	3.84	2.99
REF198FSZ-ND	Voltage Reference LDO 4.096V*	8-SOIC	3.74	2.99	2.33
REF198GRUZ-ND	Voltage Reference LDO 4.096V*	8-TSSOP	4.21	3.37	2.62
REF198GSZ-ND	Voltage Reference LDO 4.096V*	8-SOIC	2.68	2.15	1.67

WAVEFORM GENERATORS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100

Sine/Tri/Square Waves

Digi-Key Part No.	Description	Pkg.	1	25	100
AD5930YRUZ-ND	Programmable Frequency Sweep/Output Burst Waveform Generator	20-TSSOP	12.81	11.54	10.23
AD5932YRUZ-ND	Programmable Single-Scan Generator	16-TSSOP	8.33	7.50	6.65
AD5933YRSZ-ND	1Msps, 12-Bit Impedance Converter, Network Analyzer	16-SSOP	24.95	23.29	21.62
EVAL-AD5933EBZ-ND	Evaluation Board for AD5933	—	150.00	—	—
AD5934YRSZ-ND	250Ksps, 12-Bit Impedance Converter, Network Analyzer	16-SSOP	16.32	15.24	14.15
EVAL-AD5934EBZ-ND	Evaluation Board for AD5934	—	150.00	—	—
AD9833BRMZ-ND	Programmable Waveform Generator	10-MSOP	9.30	7.44	6.28

SENSOR/SIGNAL CONDITIONING

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100

Energy Measurement

Digi-Key Part No.	Description	Pkg.	1	25	100
AD71056ARZ-ND	Energy Metering IC*	16-SOIC	2.70	2.16	1.68
ADE7169ASTZF16-ND	Single Phase Energy Meter* ***NEW!***	64-LQFP	7.46	5.97	5.04
ADE7566ASTZF8-ND	Single Phase Energy Measurement IC*	64-LQFP	6.34	5.08	4.28
ADE7569ASTZF16-ND	Single Phase Energy Measurement IC*	64-LQFP	7.28	5.83	4.92
ADE7751ARSZ-ND	Energy Metering Detector*	24-SSOP	3.24	2.60	2.02
EVAL-ADE7752EB-ND	Evaluation Board for ADE7752	—	281.25	—	—
ADE7753ARSZ-ND	Single Phase Multifunction Metering IC*	20-SSOP	4.73	3.78	2.94
EVAL-ADE7753ZEB-ND	Evaluation Board for ADE7753*	—	187.50	—	—
ADE7754ARZ-ND	Energy Meter with Serial*	24-SOIC	8.38	7.55	6.69
ADE7757ARNZ-ND	Energy Metering*	16-SOIC	3.22	2.58	2.01
ADE7758ARWZ-ND	Energy Metering*	24-SOIC	11.16	10.05	8.92
ADE7759ARSZ-ND	Energy Meter with Sensor Interface*	20-SSOP	4.19	3.35	2.61
ADE7760ARS-ND	Energy Meter with On-Chip Fault Detection	20-SSOP	4.66	3.73	2.90
ADE7761ARS-ND	Energy Meter with On-Chip Fault Detection	20-SSOP	5.01	4.68	4.35
ADE7762ARWZ-ND	Polyphase Energy Metering IC with Phase Drop Indication*	28-SOIC	8.90	7.12	6.01
ADE7763ARSZ-ND	Energy Meter Single Phase Active and Apparent*	20-SSOP	3.69	2.96	2.30
ADE7763ARSZRLCT-ND	Energy Meter Single Phase Active and Apparent*	20-SSOP	3.69	2.96	2.30
ADE7763ARSZRLTR-ND	Energy Meter Single Phase Active and Apparent*	20-SSOP	3136.50/1,500		

Temperature

Digi-Key Part No.	Description	Pkg.	1	25	100
AD590JF-ND	Temperature Transducer 2-Terminal*	2-CQFP	15.81	14.24	12.63
AD590JH-ND	Temperature Transducer 2-Terminal*	TO-52	7.80	6.24	5.27
AD590JRZ-ND	Temperature Transducer 2-Terminal*	8-SOIC	5.83	4.67	3.63
AD590KF-ND	Temperature Transducer 2-Terminal*	2-CQFP	17.29	15.57	13.81
AD590KH-ND	Temperature Transducer 2-Terminal*	TO-52	9.83	8.85	7.85
AD590KRZ-ND	Temperature Transducer 2-Terminal*	8-SOIC	8.56	6.85	5.78
AD590LF-ND	Temperature Transducer 2-Terminal*	2-CQFP	38.72	36.14	33.56
AD590LH-ND	Temperature Transducer 2-Terminal	TO-52	19.71	18.40	17.09
AD590MF-ND	Temperature Transducer 2-Terminal*	2-CQFP	71.12	66.38	61.64
AD590MH-ND	Temperature Transducer 2-Terminal*	TO-52	46.92	43.80	40.67
AD592ANZ-ND	Temperature Transducer 2-Terminal*	TO-92	4.70	3.77	2.93
AD592BNZ-ND	Temperature Transducer 2-Terminal*	TO-92	10.83	9.75	8.65
AD592CN-ND	Temperature Transducer 2-Terminal	TO-92	15.09	13.59	12.05
AD592CNZ-ND	Temperature Transducer 2-Terminal*	TO-92	14.44	13.01	11.54
AD594AQ-ND	Thermocouple Amp with Compensator	14-Dip	11.48	10.34	9.17
AD594CQ-ND	Thermocouple Amp with Compensator	14-Dip	18.68	17.43	16.19
AD595AQ-ND	Thermocouple Amp with Compensator	14-Dip	11.48	10.34	9.17
AD595CQ-ND	Thermocouple Amp with Compensator	14-Dip	18.68	17.43	16.19
AD596AHZ-ND	Thermocouple Conditioning*	TO-100	12.74	11.48	10.18
AD597AHZ-ND	Thermocouple Conditioning*	TO-100	12.74	11.48	10.18
AD597AR-ND	Thermocouple Conditioning	8-SOIC	5.94	4.76	4.01
AD597ARZ-ND	Thermocouple Conditioning*	8-SOIC	5.68	4.55	3.84
AD22100ARZ-ND	Temperature Sensor Voltage Out*	8-SOIC	6.36	5.09	4.30
AD22100ATZ-ND	Temperature Sensor Voltage Out*	TO-92	5.78	4.63	3.91
AD22100KRZ-ND	Temperature Sensor Voltage Out*	8-SOIC	4.34	3.48	2.71
AD22100KTZ-ND	Temperature Sensor Voltage Out*	TO-92	3.85	3.08	2.40
AD22100SRZ-ND	Temperature Sensor Voltage Out*	8-SOIC	7.00	5.60	4.73
AD22100STZ-ND	Temperature Sensor Voltage Out*	TO-92	6.36	5.09	4.30
AD22103KRZ-ND	Temperature Sensor Voltage Out*	8-SOIC	3.31	2.65	2.06
AD22105ARZ-ND	Thermostatic Switch Solid State*	8-SOIC	3.40	2.72	2.12
AD7314ARMZ-ND	Temperature Sensor 10-Bit Digital*	8-MSOP	1.88	1.50	1.13
AD7414ARM0REEL7CT-ND	Temperature Sensor 10-Bit Digital	8-MSOP	2.99	2.40	1.87
AD7414ARMZ-0-ND	Temperature Sensor 10-Bit Digital*	8-MSOP	2.86	2.29	1.78
AD7414ARTZ0500RCT-ND	Temperature Sensor 10-Bit*	SOT-23-6	2.52	2.02	1.57
AD7414ARTZ0500RTR-ND	Temperature Sensor 10-Bit*	SOT-23-6	728.00/500		
AD7414ARTZ-1REEL7CT-ND	Temperature Sensor 10-Bit*	SOT-23-6	2.58	2.06	1.55
AD7414ARTZ-1REEL7TR-ND	Temperature Sensor 10-Bit*	SOT-23-6	3893.40/3,000		
AD7415ARTZ-0500RL7CT-ND	Temperature Sensor 10-Bit*	SOT-23-5	2.52	2.02	1.57
AD7415ARTZ-0500RL7TR-ND	Temperature Sensor 10-Bit*	SOT-23-5	728.00/500		
AD7415ARTZ-1500RL7CT-ND	Temperature Sensor 10-Bit*	SOT-23-5	2.80	2.24	1.68
AD7415ARTZ-1500RL7TR-ND	Temperature Sensor 10-Bit*	SOT-23-5	728.00/500		
AD7416ARMZ-ND	Temperature Sensor 10-Bit*	8-MSOP	2.45	1.96	1.47
AD7417ARZ-ND	Temperature Sensor 10-Bit/Four 1-Channel ADCs*	16-SOIC	6.94	5.56	4.69
AD7417ARU-ND	Temperature Sensor 10-Bit/Four 1-Channel ADCs	16-TSSOP	7.26	5.81	4.91
AD7417ARUZ-ND	Temperature Sensor 10-Bit/Four 1-Ch. ADCs*	16-TSSOP	6.94	5.56	4.69
AD7418ARMZ-ND	Temperature Sensor 10-Bit/Four 1-Channel ADCs*	8-MSOP	5.84	4.68	3.95
AD7418ARZ-ND	Temperature Sensor 10-Bit/Four 1-Channel ADCs*	8-SOIC	5.84	4.68	3.95
AD7814ARM-ND	Digital Temperature Sensor 10-Bit	8-MSOP	3.18	2.54	1.91
AD7814ARMZ-ND	Digital Temperature Sensor 10-Bit*	8-MSOP	2.72	2.18	1.70
AD7814ARTZ-REEL7CT-ND	Digital Temperature Sensor 10-Bit*	SOT-23-6	2.48	1.98	1.49
AD7814ARTZ-REEL7TR-ND	Digital Temperature Sensor 10-Bit*	SOT-23-6	3801.60/3,000		
AD22103KTZ-ND	Temperature Sensor 3.3V Signal Condition*	TO-92	3.15	2.52	1.96
AD22151YRZ-ND	Magnetic Field Sensor Linear*	8-SOIC	5.29	4.23	3.29
ADT75ARMZ-ND	Digital Temperature Sensor 12-Bit*	8-MSOP	1.95	1.56	1.17
ADT75ARZ-ND	Digital Temperature Sensor 12-Bit*	8-SOIC	1.95	1.56	1.17
ADT75BRMZ-ND	Digital Temperature Sensor 12-Bit*	8-MSOP	2.48	1.98	1.54
ADT6501SRJZP065RL7CT-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1.47	1.23	.98
ADT6501SRJZP065RL7TR-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1911.00/3,000		
ADT6501SRJZP075RL7CT-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1.47	1.23	.98
ADT6501SRJZP075RL7TR-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1911.00/3,000		
ADT6501SRJZP105RL7CT-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1.47	1.23	.98
ADT6501SRJZP105RL7TR-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1911.00/3,000		
ADT6501SRJZP115RL7CT-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1.47	1.23	.98
ADT6501SRJZP115RL7TR-ND	Temperature Switch 2.7V~5.5V*	SOT-23-5	1911.00/3,000		
ADT6503SRJZN025RL7CT-ND	Temperature Switch 2.7V~5.5V* ***NEW!***	SOT-23-5	1.47	1.23	.98
ADT6503SRJZN025RL7TR-ND	Temperature Switch 2.7V~5.5V* ***NEW!***	SOT-23-5	1911.00/3,000		
ADT6504SRJZN015RL7CT-ND	Temperature Switch 2.7V~5.5V* ***NEW!***	SOT-23-5	1.47	1.23	.98
ADT6504SRJZN015RL7TR-ND	Temperature Switch 2.7V~5.5V* ***NEW!***	SOT-23-5	1911.00/3,000		
ADT7301ARMZ-ND	Digital Temperature Sensor 13-Bit*	8-MSOP	3.11	2.49	1.94
ADT7301ARTZ-REEL7CT-ND	Digital Temperature Sensor 13-Bit*	SOT-23-6	2.70	2.16	1.68
ADT7301ARTZ-REEL7TR-ND	Digital Temperature Sensor 13-Bit*	SOT-23-6	4536.00/3,000		
EVAL-ADT7301EB-ND	Evaluation Board for ADT7301	—	100.00	—	—
ADT7302ARMZ-ND	Micropower Digital Temperature Sensor 13-Bit*	8-MSOP	1.78	1.42	1.07
ADT7302ARTZ-REEL7CT-ND	Micropower Digital Temperature Sensor 13-Bit*	SOT-23-6	1.55	1.24	.93
ADT7302ARTZ-REEL7TR-ND	Micropower Digital Temperature Sensor 13-Bit*	SOT-23-6	2380.80/3,000		
ADT7316ARQZ-ND	Digital Temperature Sensor Quad 12-Bit DACs*	16-QSOP	12.26	11.04	9.79
ADT7318ARQZ-ND	Digital Temperature Sensor Quad 8-Bit DACs*	16-QSOP	5.72	4.58	3.56
ADT7408CCPZ-REEL7CT-ND	Digital Temperature Sensor 12-Bit*	8-LFCSP	2.15	1.72	1.29
ADT7408CCPZ-REEL7TR-ND	Digital Temperature Sensor 12-Bit*	8-LFCSP	1677.00/1,500		
EVAL-ADT7411EB-ND	Evaluation Board for ADT7411	—	164.06	—	—
EVAL-ADT7411EBZ-ND	Evaluation Board for ADT7411*	—	192.50	—	—
ADT7470ARQZ-ND	Temperature Sensor Hub/Fan Controller*	16-QSOP	5.58	4.47	3.48
EVAL-ADT7470EBZ-ND	Evaluation Board for ADT7470*	—	192.50	—	—
ADT7517ARQZ-ND	SPI/I²C Compatible, Temp. Sensor, 4-Channel ADC and Quad Voltage DAC*	16-QSOP	9.20	8.28	7.35
ADT7518ARQZ-ND	SPI/I²C Compatible, Temp. Sensor, 4-Channel ADC and Quad Voltage DAC*	16-QSOP	8.12	6.50	5.49
ADT7519ARQZ-ND	SPI/I²C Compatible, Temp. Sensor, 4-Channel ADC and Quad Voltage DAC*	16-QSOP	8.12	6.50	5.49
TMP01ESZ-ND	Temperature Sensor/Controller*	8-SOIC	9.22	7.38	6.23
TMP01FPZ-ND	Temperature Sensor/Controller*	8-Dip	5.62	4.50	3.80
TMP01FSZ-ND	Temperature Sensor/Controller*	8-SOIC	5.65	4.52	3.52
TMP03FT9Z-ND	Thermometer Serial Digital Out*	TO-92	6.16	4.93	4.16
TMP04FSZ-ND	Temperature Sensor/Serial*	8-SOIC	6.16	4.93	4.16
TMP04FS-REELCT-ND	Temperature Sensor/Serial	8-SOIC	5.60	4.48	3.78

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(Continued)

SENSOR/SIGNAL CONDITIONING *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TMP04FT9Z-ND	Temperature Sensor/Serial*	TO-92	6.16	4.93	4.16
TMP05AKSZ-500RL7CT-ND	Temperature Sensor PWM*	SC70-5	1.95	1.56	1.17
TMP05AKSZ-500RL7TR-ND	Temperature Sensor PWM*	SC70-5	526.50/500		
TMP05ARTZ-500RL7CT-ND	Temperature Sensor PWM*	SOT-23-5	1.95	1.56	1.17
TMP05ARTZ-500RL7TR-ND	Temperature Sensor PWM*	SOT-23-5	526.50/500		
TMP05BKSZ-500RL7CT-ND	Temperature Sensor PWM*	SC70-5	2.48	1.98	1.54
TMP05BKSZ-500RL7TR-ND	Temperature Sensor PWM*	SC70-5	715.00/500		
TMP05BRTZ-500RL7CT-ND	Temperature Sensor PWM*	SOT-23-5	2.48	1.98	1.54
TMP05BRTZ-500RL7TR-ND	Temperature Sensor PWM*	SOT-23-5	715.00/500		
TMP06AKSZ-500RL7CT-ND	Temperature Sensor PWM*	SC70-5	1.95	1.56	1.17
TMP06AKSZ-500RL7TR-ND	Temperature Sensor PWM*	SC70-5	526.50/500		
TMP06ARTZ-500RL7CT-ND	Temperature Sensor PWM*	SOT-23-5	1.95	1.56	1.17
TMP06ARTZ-500RL7TR-ND	Temperature Sensor PWM*	SOT-23-5	526.50/500		
TMP06BKSZ-500RL7CT-ND	Temperature Sensor PWM*	SC70-5	2.48	1.98	1.54
TMP06BKSZ-500RL7TR-ND	Temperature Sensor PWM*	SC70-5	715.00/500		
TMP06BRTZ-500RL7CT-ND	Temperature Sensor PWM*	SOT-23-5	2.48	1.98	1.54
TMP06BRTZ-500RL7TR-ND	Temperature Sensor PWM*	SOT-23-5	715.00/500		
TMP17GSZ-ND	Temperature Transducer 4V to 30V*	8-SOIC	3.26	2.61	2.03
TMP35GT9Z-ND	Temperature Sensor 2.7V to 5.5V*	TO-92	1.32	1.10	.88
TMP36FSZ-ND	Temperature Sensor 2.7V to 5.5V*	8-SOIC	1.63	1.30	.98
TMP36GRTZ-REEL7CT-ND	Temperature Sensor 2.7V to 5.5V*	SOT-23-5	1.32	1.10	.88
TMP36GRTZ-REEL7TR-ND	Temperature Sensor 2.7V to 5.5V*	SOT-23-5	1716.00/3,000		
TMP36GSZ-ND	Temperature Sensor 2.7V to 5.5V*	8-SOIC	1.32	1.10	.88
TMP36GT9Z-ND	Temperature Sensor 2.7V to 5.5V*	TO-92	1.32	1.10	.88
TMP37FSZ-ND	Temperature Sensor 2.7V to 5.5V*	8-SOIC	1.63	1.30	.98
TMP37FT9Z-ND	Temperature Sensor 2.7V to 5.5V*	TO-92	1.32	1.10	.88

Transmitter

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD693AD-ND	Signal Conditioning 4-20mA Transmitter	20-Dip	24.05	22.45	20.84
AD693AQ-ND	Signal Conditioning 4-20mA Transmitter	20-Dip	15.78	14.21	12.60
AD694AQ-ND	Transmitter 4-20mA	16-CDip	14.78	13.31	11.80
AD694AR-ND	Transmitter 4-20mA	16-SOIC	10.93	9.84	8.73
AD694ARZ-ND	Transmitter 4-20mA*	16-SOIC	9.93	8.94	7.93
AD694BRZ-ND	Transmitter 4-20mA*	16-SOIC	15.88	14.30	12.68
AD694JN-ND	Transmitter 4-20mA	16-Dip	11.86	10.68	9.47
AD694JNZ-ND	Transmitter 4-20mA*	16-Dip	10.78	9.71	8.61

SIGNAL PROCESSOR

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD9821KSTZ-ND	12-Bit Image Signal Processor*	48-LQFP	16.80	15.68	14.56
AD9822JRZ-ND	14-Bit CCD/CIS Signal Processor*	28-SOIC	6.94	5.56	4.69
AD9826KRS-ND	16-Bit Image Signal Processor	28-SSOP	10.08	9.08	8.05
AD9826KRSZ-ND	16-Bit Image Signal Processor*	28-SSOP	9.16	8.25	7.32

SPECIALIZED IC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD73311AR-ND	Analog Front End Low Power	20-SOIC	8.64	6.92	5.84
AD73311ARZ-ND	Analog Front End Low Power*	20-SOIC	7.84	6.28	5.30
AD7400YRWZ-ND	Isolated Modulator Sigma-Delta*	16-SOIC	9.42	7.54	6.36
AD7401YRWZ-ND	Isolated Modulator Sigma-Delta*	16-SOIC	9.42	7.54	6.36
AD7720BRU-ND	Modulator Sigma-Delta	28-TSSOP	17.24	15.53	13.77
AD8383ACPZ-ND	10-Bit, 6-Channel Decimating LCD DecDriver®*	48-LFCSP	8.20	6.56	5.54
AD8384ASVZ-ND	10-Bit, 6-Channel Decimating LCD DecDriver®*	80-TQFP	10.40	8.32	7.02
AD9856AST-ND	Quad Digital Up Converter	48-TQFP	26.70	24.92	23.14
AD9856ASTZ-ND	Quad Digital Up Converter*	48-TQFP	25.55	23.85	22.14
AD9857ASTZ-ND	Quad Digital Up Converter*	80-QFP	24.65	23.01	21.36
AD96685BRZ-ND	Ultrafast Comparator*	16-SOIC	5.84	4.68	3.95
ADM1041ARQ-ND	Secondary-Side Controller with Current Share/Housekeeping	24-QSOP	10.91	9.83	8.72
ADM1041ARQZ-ND	Secondary-Side Controller with Current Share/Housekeeping*	24-QSOP	9.91	8.93	7.92

SUPERVISORY CIRCUITS AND RESET GENERATORS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADM690AARNZ-ND	Supervisor MPU 4.65V Watchdog*	8-SOIC	3.51	2.81	2.19
ADM690ANZ-ND	Supervisor MPU 4.65V Watchdog*	8-Dip	2.34	1.88	1.46
ADM691AANZ-ND	Supervisor MPU 4.65V, 250mA*	16-Dip	3.87	3.10	2.41
ADM691AARNZ-ND	Supervisor MPU 4.65V, 250mA*	16-SOIC	3.87	3.10	2.41
ADM691AARWZ-ND	Supervisor MPU 4.65V, 250mA*	16-SOIC	3.87	3.10	2.41
ADM691AARW-REELCT-ND	Supervisor MPU 4.65V, 250mA	16-SOIC	3.87	3.10	2.41
ADM691ANZ-ND	Supervisor MPU 4.65V, 100mA*	16-Dip	3.29	2.63	2.05
ADM691ARZ-ND	Supervisor MPU 4.65V, 250mA*	16-SOIC	2.81	2.25	1.75
ADM691AR-REELTR-ND	Supervisor MPU 4.65V, 250mA	16-SOIC	1794.00/1,000		
ADM691ARZ-REEL7TR-ND	Supervisor MPU 4.65V, 250mA*	16-SOIC	700.00/400		
ADM693ANZ-ND	Supervisor MPU 4.4V, 100mA Watchdog*	16-Dip	2.34	1.88	1.46
ADM693ARZ-ND	Supervisor MPU 4.4V, 100mA Watchdog*	16-SOIC	2.34	1.88	1.46
ADM694ANZ-ND	Supervisor MPU 4.65V, 100mA*	8-Dip	2.34	1.88	1.46
ADM695AN-ND	Supervisor MPU 4.65V, 100mA	16-Dip	2.85	2.28	1.71
ADM695ANZ-ND	Supervisor MPU 4.65V, 100mA*	16-Dip	2.34	1.88	1.46
ADM695AR-ND	Supervisor MPU 4.65V, 100mA	16-SOIC	2.85	2.28	1.71
ADM695ARZ-ND	Supervisor MPU 4.65V, 100mA*	16-SOIC	2.34	1.88	1.46
ADM696ARZ-ND	Supervisor MPU 4.65V, 100mA*	16-SOIC	2.34	1.88	1.46
ADM699ANZ-ND	Supervisor MPU 4.65V Watchdog*	8-Dip	2.20	1.76	1.32
ADM699ARZ-ND	Supervisor MPU 4.65V Watchdog*	16-SOIC	2.20	1.76	1.32
ADM699AR-REELCT-ND	Supervisor MPU 4.65V Watchdog	16-SOIC	2.91	2.43	1.94
ADM699AR-REELTR-ND	Supervisor MPU 4.65V Watchdog	16-SOIC	1290.00/1,000		
ADM705ANZ-ND	Supervisor MPU 4.65V Watchdog*	8-Dip	2.25	1.80	1.40
ADM705ARZ-ND	Supervisor MPU 4.65V Watchdog*	8-SOIC	2.25	1.80	1.40
ADM705AR-REEL7TR-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	1463.00/1,000		
ADM706ANZ-ND	Supervisor MPU 4.4V Watchdog*	8-Dip	1.98	1.58	1.19
ADM706ARZ-ND	Supervisor MPU 4.4V Watchdog*	8-SOIC	2.25	1.80	1.40
ADM706RARZ-ND	Supervisor MPU 2.63V Watchdog*	8-SOIC	2.25	1.80	1.40
ADM706SANZ-ND	Supervisor MPU 2.93V Watchdog*	8-Dip	2.25	1.80	1.40
ADM706SARZ-ND	Supervisor MPU 2.93V Watchdog*	8-SOIC	2.25	1.80	1.40
ADM706TARZ-ND	Supervisor MPU 3.08V Watchdog*	8-SOIC	2.25	1.80	1.40
ADM707ANZ-ND	Supervisor MPU 4.65V Watchdog*	8-Dip	2.25	1.80	1.40
ADM707ARZ-ND	Supervisor MPU 4.65V Watchdog*	8-SOIC	2.25	1.80	1.40
ADM707AR-REELCT-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	2.48	1.98	1.54
ADM707AR-REELTR-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	3575.00/2,500		
ADM708AN-ND	Supervisor MPU 4.4V Watchdog	8-Dip	3.30	2.75	2.20
ADM708ANZ-ND	Supervisor MPU 4.4V Watchdog*	8-Dip	2.25	1.80	1.40
ADM708ARMZ-ND	Supervisor MPU 4.4V Watchdog*	8-MSOP	1.98	1.58	1.19
ADM708ARZ-ND	Supervisor MPU 4.4V Watchdog*	8-SOIC	1.98	1.58	1.19
ADM708RARZ-ND	Supervisor MPU 2.63V Watchdog*	8-SOIC	1.98	1.58	1.19
ADM708SARZ-ND	Supervisor MPU 2.93V Watchdog*	8-SOIC	1.98	1.58	1.19
ADM708TARZ-ND	Supervisor MPU 3.08V Watchdog*	8-SOIC	1.98	1.58	1.19
ADM709LAN-ND	Supervisor MPU 4.65V	8-Dip	2.19	1.83	1.46
ADM709LANZ-ND	Supervisor MPU 4.65V*	8-Dip	1.65	1.32	.99
ADM709LARZ-ND	Supervisor MPU 4.65V*	8-SOIC	1.65	1.32	.99
ADM809-5SAKSZ-RL7CT-ND	Supervisor MPU 2.93V*	SC70	1.55	1.24	.93
ADM809-5SAKSZ-RL7TR-ND	Supervisor MPU 2.93V*	SC70	2382.00/3,000		
ADM809-5SARTRL7CT-ND	Supervisor MPU 2.93V	SOT-23	1.55	1.24	.93
ADM809-5SARTRL7TR-ND	Supervisor MPU 2.93V	SOT-23	2610.00/3,000		
ADM809LARTZ-REEL7CT-ND	Supervisor MPU 4.63V*	SOT-23	1.55	1.24	.93
ADM809LARTZ-REEL7TR-ND	Supervisor MPU 4.63V*	SOT-23	2380.80/3,000		
ADM809MARTZ-REEL7CT-ND	Supervisor Pushpull 4.38V*	SOT-23	1.55	1.24	.93
ADM809MARTZ-REEL7TR-ND	Supervisor Pushpull 4.38V*	SOT-23	2380.80/3,000		
ADM809SARTZ-REEL7CT-ND	Supervisor Pushpull 2.93V*	SOT-23	1.55	1.24	.93
ADM809SARTZ-REEL7TR-ND	Supervisor Pushpull 2.93V*	SOT-23	2380.80/3,000		
ADM809TARTZ-REEL7CT-ND	Supervisor Pushpull 3.08V*	SOT-23	1.55	1.24	.93
ADM809TARTZ-REEL7TR-ND	Supervisor Pushpull 3.08V*	SOT-23	2380.80/3,000		
ADM810JAKS-RL7CT-ND	Supervisor Pushpull 4.0V	SC-70	1.65	1.32	.99
ADM810JAKS-RL7TR-ND	Supervisor Pushpull 4.0V	SC-70	2535.00/3,000		
ADM810LART-RL7CT-ND	Supervisor Pushpull 4.63V	SOT-23	.68	.51	.39
ADM810LARTZ-REEL7CT-ND	Supervisor Pushpull 4.63V*	SOT-23	1.50	1.20	.90
ADM810LARTZ-REEL7TR-ND	Supervisor Pushpull 4.63V*	SOT-23	2304.00/3,000		
ADM811LARTZ-REEL7CT-ND	Supervisor with Reset 4.63V*	SOT-143-4	1.35	1.13	.90
ADM811LARTZ-REEL7TR-ND	Supervisor with Reset 4.63V*	SOT-143-4	1755.00/3,000		
ADM811RART-RL7CT-ND	Supervisor with Reset 2.63V	SOT-143-4	1.35	1.13	.90
ADM811RART-RL7TR-ND	Supervisor with Reset 2.63V	SOT-143-4	1950.00/3,000		
ADM811RARTZ-REEL7CT-ND	Supervisor with Reset 2.63V*	SOT-143-4	1.35	1.13	.90
ADM811RARTZ-REEL7TR-ND	Supervisor with Reset 2.63V*	SOT-143-4	1755.00/3,000		
ADM811SARTZ-REEL7CT-ND	Supervisor with Reset 2.93V*	SOT-143-4	1.35	1.13	.90
ADM811SARTZ-REEL7TR-ND	Supervisor with Reset 2.93V*	SOT-143-4	1755.00/3,000		
ADM823SYKSZ-R7CT-ND	Supervisor Circuit with Watchdog 2.93V*	SC70-5	1.47	1.23	.98
ADM823SYKSZ-R7TR-ND	Supervisor Circuit with Watchdog 2.93V*	SC70-5	1911.00/3,000		
ADM823SYRJ-R7CT-ND	Supervisor Circuit with Watchdog 2.93V	SOT-23-5	1.47	1.23	.98
ADM825TYRJZ-R7CT-ND	Supervisor Circuit with Watchdog and Manual Reset*	SOT-23-5	1.47	1.23	.98
ADM825TYRJZ-R7TR-ND	Supervisor Circuit with Watchdog and Manual Reset*	SOT-23-5	1911.00/3,000		
ADM1070ARTREEL7CT-ND	Hotswap Controller -48V	SOT-23-6	3.85	3.08	2.40
ADM1070ARTREEL7TR-ND	Hotswap Controller -48V	SOT-23-6	6463.80/3,000		
ADM1073ARUZ-ND	Hotswap Controller, Full-Feature, -48V*	14-TSSOP	5.06	4.05	3.15
ADM1232ANZ-ND	Supervisor/CPU*	8-Dip	1.95	1.56	1.17
ADM1232ARNZ-ND	Supervisor/CPU*	8-SOIC	1.95	1.56	1.17
ADM1232ARNREEL7TR-ND	Supervisor/CPU	8-SOIC	1118.00/1,000		
ADM181520ARTRL7CT-ND	Monitor Reset 2.55V	SOT-23	1.29	1.08	.86
ADM181520ARTRL7TR-ND	Monitor Reset 2.55V	SOT-23	1677.00/3,000		
ADM181810ARTRL7CT-ND	Monitor Reset 2.88V	SOT-23	1.32	1.10	.88
ADM181810ARTRL7TR-ND	Monitor Reset 2.88V	SOT-23	1716.00/3,000		
ADM1818-10ARTZ-RL7CT-ND	Monitor Reset 2.88V*	SOT-23	1.20	1.00	.80
ADM1818-10ARTZ-RL7TR-ND	Monitor Reset 2.88V*	SOT-23	1560.00/3,000		
ADM181820ARTRL7CT-ND	Monitor Reset 2.55V	SOT-23	1.32	1.10	.88
ADM181820ARTRL7TR-ND	Monitor Reset 2.55V	SOT-23	1716.00/3,000		
ADM1818-20ARTZ-RL7CT-ND	Monitor Reset 2.55V*	SOT-23	1.20	1.00	.80
ADM1818-20ARTZ-RL7TR-ND	Monitor Reset 2.55V*	SOT-23	1560.00/3,000		
ADM1818-R22AKSZ-R7CT-ND	Monitor Reset 2.18V*	SC-70	1.20	1.00	.80
ADM1818-R22AKSZ-R7TR-ND	Monitor Reset 2.18V*	SC-70	1560.00/3,000		
ADM1818-R23AKSZ-R7CT-ND	Monitor Reset 2.31V*	SC-70	1.20	1.00	.80
ADM1818-R23AKSZ-R7TR-ND	Monitor Reset 2.31V*	SC-70	1560.00/3,000		
ADM6713LAKS-RL7CT-ND	Supervisor Open Drain 4.63V	SC70-4	.78	.65	.52
ADM6713LAKSZ-REEL7CT-ND	Supervisor Open Drain 4.63V*	SC70-4	.78	.65	.52
ADM6713LAKSZ-REEL7TR-ND	Supervisor Open Drain 4.63V*	SC70-4	1014.00/3,000		
ADM6713MAKSZ-REEL7CT-ND	Supervisor Open Drain 4.38V*	SC70-4	.78	.65	.52
ADM6713MAKSZ-REEL7TR-ND	Supervisor Open Drain 4.38V*	SC70-4	1014.00/3,000		
ADM6713RAKS-RL7CT-ND	Supervisor Open Drain 2.63V	SC70-4	.87	.73	.58
ADM6713RAKSZ-REEL7CT-ND	Supervisor Open Drain 2.63V*	SC70-4	.78	.65	.52
ADM6713RAKSZ-REEL7TR-ND	Supervisor Open Drain 2.63V*	SC70-4	1014.00/3,000		
ADM6713SAKS-RL7CT-ND	Supervisor Open Drain 2.93V	SC70-4	.87	.73	.58
ADM6713SAKSZ-REEL7CT-ND	Supervisor Open Drain 2.93V*	SC70-4	.78	.65	.52
ADM6713SAKSZ-REEL7TR-ND	Supervisor Open Drain 2.93V*	SC70-4	1014.00/3,000		
ADM6713TAKSZ-REEL7CT-ND	Supervisor Open Drain 3.08V*	SC70-4	.78	.65	.52
ADM6713TAKSZ-REEL7TR-ND	Supervisor Open Drain 3.08V*	SC70-4	1014.00/3,000		
ADM6713ZAKS-RL7CT-ND	Supervisor Open Drain 2.32V	SC70-4	.87	.73	.58
ADM6713ZAKS-RL7TR-ND	Supervisor Open Drain 2.32V	SC70-4	1131.00/3,000		
ADM6713ZAKSZ-REEL7CT-ND	Supervisor Open Drain 2.32V*	SC70-4	.78	.65	.52
ADM6713ZAKSZ-REEL7TR-ND	Supervisor Open Drain 2.32V*	SC70-4	1014.00/3,000		
ADM8617SAYAKSZ-RL7CT-ND	Supervisor Low Voltage, Watchdog*	SC70-4	2.13	1.70	1.28
ADM8617SAYAKSZ-RL7TR-ND	Supervisor Low Voltage, Watchdog*	SC70-4	3264.00/3,000		
ADM8695ARW-ND	Supervisor MPU 4.65V Adj.	16-SOIC	5.74	4.59	3.57
ADM8695ARWZ-ND	Supervisor MPU 4.65V Adj.*	16-SOIC	5.22	4.18	3.25
ADM13305-18ARZ-ND	Supervisor Dual Processor*	8-SOIC	2.81	2.25	1.75
ADM13305-25ARZ-ND	Supervisor Dual Processor*	8-SOIC	2.81	2.25	1.75
ADM13305-33ARZ-ND	Supervisor Dual Processor*	8-SOIC	2.81	2.25	1.75
ADM13307-25ARZ-ND	Supervisor Triple Processor* ***NEW!***	8-SOIC	3.04	2.43	1.89

***RoHS Compliant**

Analog

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7510DIKP-ND	Switch Analog CMOS Quad Protection	20-PLCC	14.63	13.17	11.68
AD7512DIKN-ND	Switch Analog CMOS Dual	14-Dip	13.69	12.33	10.94
AD7512DIKNZ-ND	Switch Analog CMOS Dual*	14-Dip	13.09	11.79	10.46
AD7512DIKPZ-ND	Switch Analog CMOS Dual*	20-PLCC	14.61	13.16	11.67
AD7590DIKNZ-ND	Switch Analog with Data Latches*	16-Dip	13.23	11.91	10.57
ADG201ABQ-ND	Switch Analog Quad SPST	16-CDip	5.72	4.58	3.87
ADG201AKNZ-ND	Switch Analog Quad SPST*	16-Dip	3.31	2.65	2.06
ADG201AKPZ-ND	Switch Analog Quad SPST*	20-PLCC	3.67	2.94	2.29
ADG201AKRZ-ND	Switch Analog Quad SPST*	16-SOIC	3.22	2.58	2.01
ADG201HSJNZ-ND	Switch Analog High Speed Quad SPST*	16-Dip	5.48	4.39	3.70
ADG201HSKRZ-ND	Switch Analog High Speed Quad SPST*	16-SOIC	8.74	7.00	5.90
ADG202AKNZ-ND	Switch Analog Quad SPST*	16-Dip	3.31	2.65	2.06
ADG202AKRZ-ND	Switch Analog Quad SPST*	16-SOIC	3.22	2.58	2.01
ADG211AKNZ-ND	Switch Analog Quad SPST*	16-Dip	3.04	2.43	1.89
ADG211AKRZ-ND	Switch Analog Quad SPST*	16-SOIC	2.95	2.36	1.84
ADG212AKNZ-ND	Switch Analog Quad SPST*	16-Dip	3.04	2.43	1.89
ADG212AKRZ-ND	Switch Analog Quad SPST*	16-SOIC	2.95	2.36	1.84
ADG221KN-ND	Switch Analog Quad SPST	16-Dip	3.98	3.19	2.48
ADG221KNZ-ND	Switch Analog Quad SPST*	16-Dip	3.80	3.05	2.37
ADG221KRZ-ND	Switch Analog Quad SPST*	16-SOIC	3.69	2.96	2.30
ADG333ABNZ-ND	Switch Analog Quad SPDT*	20-Dip	6.62	5.30	4.47
ADG333ABRZ-ND	Switch Analog Quad SPDT*	20-SOIC	6.42	5.14	4.34
ADG333ABRSZ-ND	Switch Analog Quad SPDT*	20-SSOP	6.42	5.14	4.34
ADG411BNZ-ND	Switch Analog Quad Precision SPST*	16-Dip	3.87	3.10	2.41
ADG411BRUZ-ND	Switch Analog Quad Precision SPST*	16-TSSOP	3.87	3.10	2.41
ADG411BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	3.87	3.10	2.41
ADG412BNZ-ND	Switch Analog Quad Precision SPST*	16-Dip	4.05	3.24	2.52
ADG412BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	3.87	3.10	2.41
ADG413BRUZ-ND	Switch LC^{2}MOS Precision Quad SPST*	16-TSSOP	3.87	3.10	2.41
ADG413BRZ-ND	Switch LC^{2}MOS Precision Quad SPST*	16-SOIC	3.87	3.10	2.41
ADG417BRZ-ND	Switch Analog Single*	8-SOIC	2.25	1.80	1.35
ADG419BNZ-ND	Switch Analog Single Precision*	8-Dip	2.79	2.24	1.74
ADG419BR-ND	Switch Analog Single Precision	8-SOIC	2.97	2.38	1.85
ADG419BRM-ND	Switch Analog Single Precision	8-MSOP	2.97	2.38	1.85
ADG419BRMZ-ND	Switch Analog Single Precision*	8-MSOP	2.70	2.16	1.68
ADG419BRZ-ND	Switch Analog Single Precision*	8-SOIC	2.70	2.16	1.68
ADG431ABRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	6.88	5.51	4.65
ADG431ABR-REEL7CT-ND	Switch Analog Quad Precision SPST	16-SOIC	7.18	5.75	4.85
ADG431ABR-REEL7TR-ND	Switch Analog Quad Precision SPST	16-SOIC	4488.00/1,000		
ADG431BNZ-ND	Switch Analog Quad Precision SPST*	16-Dip	5.04	4.04	3.14
ADG431BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	4.88	3.91	3.04
ADG432BNZ-ND	Switch Analog Quad Precision SPST*	16-Dip	5.04	4.04	3.14
ADG432BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	4.88	3.91	3.04
ADG433ABRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	6.88	5.51	4.65
ADG433BNZ-ND	Switch Analog Quad Precision SPST*	16-Dip	5.04	4.04	3.14
ADG433BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	4.88	3.91	3.04
ADG436BNZ-ND	Switch Analog Dual SPDT*	16-Dip	5.96	4.77	3.71
ADG436BRZ-ND	Switch Analog Dual SPDT*	16-SOIC	5.78	4.63	3.60
ADG441BNZ-ND	Switch Analog Quad SPST*	16-Dip	2.13	1.70	1.28
ADG441BRZ-ND	Switch Analog Quad SPST*	16-SOIC	2.13	1.70	1.28
ADG442BN-ND	Switch Analog Quad SPST	16-Dip	2.35	1.88	1.41
ADG442BNZ-ND	Switch Analog Quad SPST*	16-Dip	2.13	1.70	1.28
ADG442BRZ-ND	Switch Analog Quad SPST*	16-SOIC	2.13	1.70	1.28
ADG444BNZ-ND	Switch Analog Quad SPST 5V*	16-Dip	1.91	1.53	1.19
ADG444BRZ-ND	Switch Analog Quad SPST 5V*	16-SOIC	2.13	1.70	1.28
ADG451BNZ-ND	Switch Analog Quad SPST*	16-Dip	5.00	4.00	3.11
ADG451BRZ-ND	Switch Analog Quad SPST*	16-SOIC	4.84	3.87	3.01
ADG451BRUZ-ND	Switch Analog Quad SPST*	16-TSSOP	4.84	3.87	3.01
ADG452BNZ-ND	Switch Analog Quad SPST*	16-Dip	5.00	4.00	3.11
ADG452BR-ND	Switch Analog Quad SPST	16-SOIC	5.33	4.27	3.32
ADG452BRZ-ND	Switch Analog Quad SPST*	16-SOIC	4.84	3.87	3.01
ADG452BRUZ-ND	Switch Analog Quad SPST*	16-TSSOP	4.84	3.87	3.01
ADG453BRZ-ND	Switch Analog Quad SPST*	16-SOIC	4.84	3.87	3.01
ADG453BRUZ-ND	Switch Analog Quad SPST*	16-TSSOP	4.84	3.87	3.01
ADG465BRMZ-REEL7CT-ND	Single Channel Protector*	8-MSOP	2.08	1.66	1.25
ADG465BRMZ-REEL7TR-ND	Single Channel Protector*	8-MSOP	1183.00/1,000		
ADG465BRTZ-REEL7CT-ND	Single Channel Protector*	SOT-23-6	1.63	1.30	.98
ADG465BRTZ-REEL7TR-ND	Single Channel Protector*	SOT-23-6	2727.00/3,000		
ADG467BRZ-ND	Channel Protector Octal*	18-SOIC	5.87	4.70	3.66
ADG467BRSZ-ND	Channel Protector Octal*	20-SSOP	5.87	4.70	3.66
ADG511ABR-ND	Switch LC^{2}MOS Quad 5/3V	16-SOIC	6.30	5.04	3.92
ADG511BN-ND	Switch LC^{2}MOS Quad 5/3V	16-Dip	5.49	4.40	3.42
ADG511BRZ-ND	Switch LC^{2}MOS Quad 5/3V*	16-SOIC	5.11	4.09	3.18
ADG512BRZ-ND	Switch LC^{2}MOS Quad 5/3V*	16-SOIC	5.11	4.09	3.18
ADG620BRTZ-REEL7CT-ND	Switch 4-Ohm Single SPDT*	SOT-23-8	2.35	1.88	1.41
ADG620BRTZ-REEL7TR-ND	Switch 4-Ohm Single SPDT*	SOT-23-8	3609.60/3,000		
ADG621BRMZ-ND	Switch 4-Ohm Dual SPST*	10-MSOP	2.48	1.98	1.54
ADG622BRMZ-ND	Switch 4-Ohm Dual SPST*	10-MSOP	2.48	1.98	1.54
ADG623BRMZ-ND	Switch 4-Ohm Dual SPST*	10-MSOP	2.48	1.98	1.54
ADG701LBRMZ-ND	Switch CMOS 2-Ohm SPST*	8-MSOP	1.93	1.54	1.16
ADG701LBRTZ-REEL7CT-ND	Switch CMOS 2-Ohm SPST*	SOT-23-6	1.65	1.32	.99
ADG701LBRTZ-REEL7TR-ND	Switch CMOS 2-Ohm SPST*	SOT-23-6	2534.40/3,000		
ADG702BRJZ-REEL7CT-ND	Switch CMOS 2-Ohm SPST*	SOT-23-5	1.50	1.20	.90
ADG702BRJZ-REEL7TR-ND	Switch CMOS 2-Ohm SPST*	SOT-23-5	2304.00/3,000		
ADG702LBRMZ-ND	Switch CMOS 2-Ohm SPST*	8-MSOP	1.93	1.54	1.16
ADG702LBRTZ-REEL7CT-ND	Switch CMOS 2-Ohm SPST*	SOT-23-6	1.65	1.32	.99
ADG702LBRTZ-REEL7TR-ND	Switch CMOS 2-Ohm SPST*	SOT-23-6	2534.40/3,000		
ADG722BRMZ-ND	Switch CMOS 4-Ohm Dual SPST*	8-MSOP	1.93	1.54	1.16
ADG723ACPZ-REEL7CT-ND	Switch CMOS 4-Ohm Dual SPST* ***NEW!***	8-LFCSP	1.48	1.18	.89
ADG723ACPZ-REEL7TR-ND	Switch CMOS 4-Ohm Dual SPST* ***NEW!***	8-LFCSP	2265.60/3,000		
ADG728BRUZ-ND	Switch Matrix, CMOS 2-Wire*	16-TSSOP	4.39	3.51	2.73
ADG733BRUZ-ND	Switch CMOS 2.5-Ohm Triple SPDT*	16-TSSOP	3.02	2.42	1.88
ADG736LBRMZ-REEL7CT-ND	Switch CMOS 2.5-Ohm Dual SPDT*	10-MSOP	2.80	2.24	1.68
ADG736LBRMZ-REEL7TR-ND	Switch CMOS 2.5-Ohm Dual SPDT*	10-MSOP	1428.00/1,000		
ADG749BKSZ-REEL7CT-ND	CMOS 1.8V to 5.5V, 2:1 Mux/SPDT Switch*	SC70-6	1.75	1.40	1.05
ADG749BKSZ-REEL7TR-ND	CMOS 1.8V to 5.5V, 2:1 Mux/SPDT Switch*	SC70-6	2688.00/3,000		
ADG781BCPZ-REEL7CT-ND	2.5-Ohm Quad SPST Switch*	20-LFCSP	2.48	1.98	1.54
ADG781BCPZ-REEL7TR-ND	2.5-Ohm Quad SPST Switch*	20-LFCSP	2103.75/1,500		
ADG782BCPZ-REEL7CT-ND	Switch 2.5-Ohm Quad SPST*	20-LFCSP	2.48	1.98	1.54
ADG782BCPZ-REEL7TR-ND	Switch 2.5-Ohm Quad SPST*	20-LFCSP	2103.75/1,500		
ADG787BRMZ-ND	Switch CMOS 2.5-Ohm Dual 2:1 Mux/Demux*	10-MSOP	2.52	2.02	1.57
ADG791ABCPZ-REELCT-ND	Switch I^{2}C, 4-Channel SPDT*	24-LFCSP	1.90	1.52	1.14
ADG791ABCPZ-REELTR-ND	Switch I^{2}C, 4-Channel SPDT*	24-LFCSP	4750.00/5,000		
ADG791GBCPZ-REELCT-ND	Switch I^{2}C, 4-Channel SPDT*	24-LFCSP	2.10	1.68	1.26
ADG791GBCPZ-REELTR-ND	Switch I^{2}C, 4-Channel SPDT*	24-LFCSP	5250.00/5,000		
ADG792ABCPZ-REELCT-ND	Mux I^{2}C, Triple 4:1*	24-LFCSP	5.36	4.29	3.34
ADG792ABCPZ-REELTR-ND	Mux I^{2}C, Triple 4:1*	24-LFCSP	14875.00/5,000		
ADG792GBCPZ-REELCT-ND	Mux I^{2}C, Triple 4:1*	24-LFCSP	5.20	4.16	3.51
ADG792GBCPZ-REELTR-ND	Mux I^{2}C, Triple 4:1*	24-LFCSP	15860.00/5,000		
ADG793ABCPZ-REELCT-ND	Mux I^{2}C, Triple 3:1*	24-LFCSP	4.28	3.42	2.66
ADG793ABCPZ-REELTR-ND	Mux I^{2}C, Triple 3:1*	24-LFCSP	11875.00/5,000		
ADG793GBCPZ-REELCT-ND	Mux I^{2}C, Triple 3:1*	24-LFCSP	4.70	3.77	2.93
ADG793GBCPZ-REELTR-ND	Mux I^{2}C, Triple 3:1*	24-LFCSP	13062.50/5,000		
EVAL-ADG793GEB-ND	Evaluation Board for ADG793	—	150.00	—	—
ADG795ABCPZ-REELCT-ND	Switch I^{2}C, 5-Channel SPDT*	24-LFCSP	2.34	1.88	1.46
ADG795ABCPZ-REELTR-ND	Switch I^{2}C, 5-Channel SPDT*	24-LFCSP	6500.00/5,000		
ADG795GBCPZ-REELCT-ND	Switch I^{2}C, 5-Channel SPDT*	24-LFCSP	2.59	2.07	1.61
ADG795GBCPZ-REELTR-ND	Switch I^{2}C, 5-Channel SPDT*	24-LFCSP	7187.50/5,000		
ADG796ABCPZ-REELCT-ND	Mux I^{2}C Hex 2:1*	24-LFCSP	2.79	2.24	1.74
ADG796ABCPZ-REELTR-ND	Mux I^{2}C Hex 2:1*	24-LFCSP	7750.00/5,000		
ADG799ABCPZ-REELCT-ND	Switch I^{2}C, Triple 2x2 Crosspoint*	24-LFCSP	3.26	2.61	2.03
ADG799ABCPZ-REELTR-ND	Switch I^{2}C, Triple 2x2 Crosspoint*	24-LFCSP	9062.50/5,000		
ADG799GBCPZ-REELCT-ND	Switch I^{2}C, Triple 2x2 Crosspoint*	24-LFCSP	3.60	2.88	2.24
ADG799GBCPZ-REELTR-ND	Switch I^{2}C, Triple 2x2 Crosspoint*	24-LFCSP	10000.00/5,000		
ADG811YRUZ-ND	Switch CMOS Quad SPST*	16-TSSOP	3.35	2.69	2.09
ADG812YRU-ND	Switch CMOS Quad SPST	16-TSSOP	3.69	2.96	2.30
ADG812YRUZ-ND	Switch CMOS Quad SPST*	16-TSSOP	3.35	2.69	2.09
ADG813YRU-ND	Switch CMOS Quad SPST	16-TSSOP	3.69	2.96	2.30
ADG849YKSZ500RLCT-ND	3V/5V CMOS 0.5-Ohm SPDT/2:1 Mux Switch*	SC70-6	1.95	1.56	1.17
ADG849YKSZ500RLTR-ND	3V/5V CMOS 0.5-Ohm SPDT/2:1 Mux Switch*	SC70-6	526.50/500		
ADG859BRYZ-REEL7CT-ND	1.8V/5.5V CMOS 1.3-Ohm, Single 2:1 Mux/SPDT Switch* ***NEW!***	SOT-66	1.50	1.20	.90
ADG859YRYZ-REEL7CT-ND	1.8V/5.5V CMOS 1.3-Ohm, Single 2:1 Mux/SPDT Switch* ***NEW!***	SOT-66	1.53	1.22	.92
ADG859YRYZ-REEL7TR-ND	1.8V/5.5V CMOS 1.3-Ohm, Single 2:1 Mux/SPDT Switch* ***NEW!***	SOT-66	2572.80/3,000		
ADG884BCPZ-REEL7CT-ND	1.8V/5.5V CMOS 0.5-Ohm, Dual 2:1 Mux/SPDT Audio Switch*	10-LFCSP	2.25	1.80	1.35
ADG884BCPZ-REEL7TR-ND	1.8V/5.5V CMOS 0.5-Ohm, Dual 2:1 Mux/SPDT Audio Switch*	10-LFCSP	1755.00/1,500		
ADG884BRMZ-ND	1.8V/5.5V CMOS 0.5-Ohm, Dual 2:1 Mux/SPDT Audio Switch*	10-MSOP	2.48	1.98	1.54
EVAL-ADG884EB-ND	Evaluation Board for ADG884	—	160.00	—	—
ADG888YRUZ-ND	Switch 0.4-Ohm CMOS Dual DPDT*	16-TSSOP	4.41	3.53	2.75
ADG904BRUZ-ND	Wideband, CMOS 1.65V-2.75V, 4:1 Mux/SP4T*	20-TSSOP	4.16	3.33	2.59
ADG936BRU-R-ND	1.65V-2.75V, SPDT Dual Switch	20-TSSOP	4.59	3.68	2.86
ADG936BRUZ-ND	1.65V-2.75V, SPDT Dual Switch*	20-TSSOP	4.16	3.33	2.59
ADG936BRUZ-R-ND	1.65V-2.75V, SPDT Dual Switch*	20-TSSOP	4.16	3.33	2.59
ADG1308BRUZ-ND	8-Channel Multiplexer*	16-TSSOP	3.54	2.84	2.39
ADG1309BRUZ-ND	4-Channel Multiplexer*	16-TSSOP	3.54	2.84	2.39
ADG1311YRUZ-ND	Quad SPST Switch*	16-TSSOP	2.86	2.29	1.78
ADG1311YRZ-ND	Quad SPST Switch*	16-SOIC	2.86	2.29	1.78
ADG1312YRUZ-ND	Quad SPST Switch*	16-TSSOP	2.45	1.97	1.53
ADG1312YRZ-ND	Quad SPST Switch*	16-SOIC	2.45	1.97	1.53
ADG1313YRZ-ND	Quad SPST Switch*	16-SOIC	2.86	2.29	1.78
ADG1334BRSZ-ND	Quad SPDT Switch*	20-SSOP	4.39	3.51	2.73
ADG1433YCPZ-REEL7CT-ND	Switch 4-Ohm RON, Triple SPDT *i*CMOS®*	16-LFCSP	5.04	4.04	3.41
ADG1433YCPZ-REEL7TR-ND	Switch 4-Ohm RON, Triple SPDT *i*CMOS®*	16-LFCSP	4725.00/1,500		
ADG1433YRUZ-ND	Switch 4-Ohm RON, Triple SPDT *i*CMOS®*	16-TSSOP	6.14	4.92	4.15
ADG1434YCPZ-REEL7CT-ND	Switch 4-Ohm RON, Quad SPDT *i*CMOS®* ***NEW!***	20-LFCSP	6.52	5.22	4.41
ADG1434YCPZ-REEL7TR-ND	Switch 4-Ohm RON, Quad SPDT *i*CMOS®* ***NEW!***	20-LFCSP	6112.50/1,500		
ADG1434YRUZ-ND	Switch 4-Ohm RON, Quad SPDT *i*CMOS®*	20-TSSOP	7.94	6.36	5.36
ADG2108BCPZ-REEL7CT-ND	Switch Array I^{2}C CMOS 8x10 Unbuffered Analog*	32-LFCSP	9.82	7.86	6.63
ADG2108BCPZ-REEL7TR-ND	Switch Array I^{2}C CMOS 8x10 Unbuffered Analog*	32-LFCSP	9206.25/1,500		
ADG2128BCPZ-HS-RL7CT-ND	8x12 Unbuffered Analog Switch*	32-LFCSP	10.30	9.27	8.22
ADG2128BCPZ-HS-RL7TR-ND	8x12 Unbuffered Analog Switch*	32-LFCSP	11448.45/1,500		
EVAL-ADG2128EB-ND	Evaluation Board for ADG2128	—	129.38	—	—
EVAL-ADG2128EBZ-ND	Evaluation Board for ADG2128*	—	150.00	—	—
ADG2188BCPZ-HS-RL7CT-ND	8x8 Unbuffered Analog Switch*	32-LFCSP	9.26	7.41	6.26
ADG2188BCPZ-HS-RL7TR-ND	8x8 Unbuffered Analog Switch*	32-LFCSP	8681.25/1,500		
ADG2188YCPZ-HS-RL7CT-ND	8x8 Unbuffered Analog Switch*	32-LFCSP	8.65	7.79	6.91
ADG2188YCPZ-HS-RL7TR-ND	8x8 Unbuffered Analog Switch*	32-LFCSP	9731.25/1,500		
ADG2188BCPZ-REEL7CT-ND	Switch Array I^{2}C CMOS 8x8 Unbuffered Analog*	32-LFCSP	8.42	6.74	5.69
ADG2188BCPZ-REEL7TR-ND	Switch Array I^{2}C CMOS 8x8 Unbuffered Analog*	32-LFCSP	7893.75/1,500		

Audio/Video

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7592DIKN-ND	Switch Analog with Data Latch	14-Dip	14.73	13.26	11.76
AD7592DIKNZ-ND	Switch Analog with Data Latch*	14-Dip	14.08	12.68	11.24
AD8108ASTZ-ND	Video Switch 8x8 with Buffer*	80-LQFP	32.64	30.47	28.29
AD8109ASTZ-ND	Video Switch 8x8 with Buffer*	80-LQFP	28.07	26.20	24.33
AD8110ASTZ-ND	Video Switch 16x8 with Buffer*	80-LQFP	57.36	53.54	49.72
AD8111AST-ND	Video Crosspoint Switch	80-LQFP	63.09	58.89	54.68
AD8112JSTZ-ND	Audio/Video 60MHz, 16x8, Gain of 2 Crosspoint Switch*	100-LQFP	20.94	19.55	18.15
AD8113JSTZ-ND	Audio/Video Switch 16x16 with Buffer*	100-LQFP	44.91	41.92	38.93
AD8114ASTZ-ND	Video Crosspoint Switch 16x16*	100-LQFP	117.44	109.61	101.78
AD8115-EVAL-ND	Evaluation Board for AD8115	—	444.38	—	—
AD8115ASTZ-ND	Video Crosspoint Switch 16x16*	100-LQFP	117.44	109.61	101.78
AD8196ACPZ-ND	2:1 HDMI/DVI Switch with Equalization*	56-LFCSP	7.10	5.68	4.80
AD8197ASTZ-ND	4:1 HDMI/DVI Switch with Equalization*	100-LQFP	12.38	11.15	9.89
AD9889BBCPZ-165-ND	High Performance HDMI/DVI Transmitter*	64-LFCSP	8.70	7.83	6.95
AD9889BBSTZ-165-ND	High Performance HDMI/DVI Transmitter*	80-LQFP	8.67	7.83	6.95
ADG794BRQZ-ND	300MHz, Quad 2:1 Mux Analog HDTV Audio/Video Switch*	16-QSOP	1.68	1.34	1.01
SSM2220SZ-ND	Audio Dual Matched PNP Transistor*	8-SOIC	5.72	4.58	3.87
SSM2402PZ-ND	Switch Dual Audio Analog*	14-Dip	6.68	5.35	4.51
SSM2402S-ND	Switch Dual Audio Analog	16-SOIC	7.34	5.88	4.96
SSM2402SZ-ND	Switch Dual Audio Analog*	16-SOIC	6.68	5.35	4.51
SSM2404PZ-ND	Switch Quad Audio Analog*	20-Dip	6.54	5.24	4.42
SSM2404SZ-ND	Switch Quad Audio Analog*	20-SOIC	6.54	5.24	4.42

RoHS Compliant

(Continued)

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ANALOG DEVICES Digi-Reel® SWITCHES *(Continued)*

Bus

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADG3233BRJZ-REEL7CT-ND	Switch Logic Level Translation 1.65V to 3.6V Bypass*	SOT-23-8	1.43	1.14	.86
ADG3233BRJZ-REEL7TR-ND	Switch Logic Level Translation 1.65V to 3.6V Bypass*	SOT-23-8	2190.00/3,000		
ADG3233BRM-ND	Switch Logic Level Translation 1.65V to 3.6V Bypass	8-MSOP	1.90	1.52	1.14
ADG3233BRMREEL7CT-ND	Switch Logic Level Translation 1.65V to 3.6V Bypass	8-MSOP	1.90	1.52	1.14
ADG3233BRMZ-ND	Switch Logic Level Translation 1.65V to 3.6V Bypass*	8-MSOP	1.73	1.38	1.04
ADG3247BCP-ND	Switch Bus 2.5V to 3.3V, 16-Bit	40-LFCSP	2.54	2.04	1.59
ADG3247BRU-ND	Switch Bus 2.5V to 3.3V, 16-Bit	38-TSSOP	3.56	2.85	2.22
ADG3248BKSZ-REEL7CT-ND	Mux/Demux Bus Switch 2:1*	SC70-6	1.40	1.12	.84
ADG3248BKSZ-REEL7TR-ND	Mux/Demux Bus Switch 2:1*	SC70-6	2150.40/3,000		
ADG3249BRJ-R2CT-ND	Mux/Demux Bus Switch 2:3	SOT-23-8	1.70	1.36	1.02
ADG3257BRQZ-ND	Mux/Demux Quad 2.5V to 3.3V High Speed*	16-QSOP	1.80	1.44	1.08

Crosspoint

Digi-Key Part No.	Description	Pkg.	1	25	100
AD8106ASTZ-ND	16x5 Buffered Video Crosspoint Switch*	80-LQFP	29.39	26.46	23.47
AD8107ASTZ-ND	16x5 Buffered Video Crosspoint Switch*	80-LQFP	26.46	24.70	22.94
AD8150AST-ND	Digital Crosspoint Switch 33x17	184-LQFP	168.15	—	—
AD8152JBPZ-ND	Digital Crosspoint Switch 34x34*	256-BGA	250.20	—	—
AD8153-EVALZ-ND	Evaluation Board for AD8153*	—	561.38	—	—
AD8153ACPZ-ND	X*stream*™ 3.2Gbps Single Buffered Mux/Demux Switch*	32-LFCSP	10.90	9.81	8.70
AD8153ACPZ-RL7CT-ND	X*stream*™ 3.2Gbps Single Buffered Mux/Demux Switch*	32-LFCSP	10.90	9.81	8.70
AD8153ACPZ-RL7TR-ND	X*stream*™ 3.2Gbps Single Buffered Mux/Demux Switch*	32-LFCSP	12115.35/1,500		

General Purpose

Digi-Key Part No.	Description	Pkg.	1	25	100
ADG1211YCPZ-500RL7CT-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Quad SPST Switch*	16-LFCSP	3.84	3.08	2.60
ADG1211YRUZ-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Quad SPST Switch*	16-TSSOP	5.27	4.22	3.28
ADG1212YCPZ-500RL7CT-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Quad SPST Switch*	16-LFCSP	3.84	3.08	2.60
ADG1212YCPZ-500RL7TR-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Quad SPST Switch*	16-LFCSP	1248.00/500		
ADG1212YCPZ-REEL7CT-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Quad SPST Switch*	16-LFCSP	3.84	3.08	2.60
ADG1212YCPZ-REEL7TR-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Quad SPST Switch*	16-LFCSP	3672.00/1,500		
ADG1212YRUZ-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Quad SPST Switch*	16-TSSOP	5.27	4.22	3.28
ADG1213YRUZ-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Quad SPST Switch*	16-TSSOP	5.27	4.22	3.28
ADG1221BRMZ-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Dual SPST Switch*	10-MSOP	3.44	2.76	2.15
ADG1222BRMZ-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Dual SPST Switch*	10-MSOP	3.44	2.76	2.15
ADG1223BRMZ-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Dual SPST Switch*	10-MSOP	3.44	2.76	2.15
ADG1233YRUZ-ND	Low Capacitance, Triple SPDT *i*CMOS™ Switch*	16-TSSOP	5.54	4.44	3.74
ADG1233YCPZ-REEL7CT-ND	Low Capacitance, Triple SPDT *i*CMOS™ Switch*	16-LFCSP	4.54	3.64	3.07
ADG1233YCPZ-REEL7TR-ND	Low Capacitance, Triple SPDT *i*CMOS™ Switch*	16-LFCSP	4341.38/1,500		
ADG1234YRUZ-ND	Low Capacitance, Quad SPDT *i*CMOS™ Switch*	20-TSSOP	7.12	5.70	4.81
ADG1234YCPZ-REEL7CT-ND	Low Capacitance, Quad SPDT *i*CMOS™ Switch*	20-LFCSP	5.84	4.68	3.95
ADG1234YCPZ-REEL7TR-ND	Low Capacitance, Quad SPDT *i*CMOS™ Switch*	20-LFCSP	5475.00/1,500		
ADG1236YCPZ-500RL7CT-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Dual SPDT Switch*	12-LFCSP	5.02	4.02	3.13
ADG1236YCPZ-500RL7TR-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Dual SPDT Switch*	12-LFCSP	1449.50/500		
ADG1236YRUZ-ND	Low Capacitance, Low Charge Injection, *i*CMOS™ Dual SPDT Switch*	16-TSSOP	5.27	4.22	3.28
ADG1408YCPZ-REEL7CT-ND	Low Capacitance, Low Charge Injection, 4/8-Ch., ±15V *i*CMOS™ Mux*	16-LFCSP	5.92	4.74	4.00
ADG1408YCPZ-REEL7TR-ND	Low Capacitance, Low Charge Injection, 4/8-Ch., ±15V *i*CMOS™ Mux*	16-LFCSP	5550.00/1,500		
ADG1408YRUZ-ND	Low Capacitance, Low Charge Injection, 4/8-Ch., ±15V *i*CMOS™ Mux*	16-TSSOP	7.22	5.78	4.88
ADG3123BRUZ-ND	8-Ch. CMOS Logic to High Volt. Level Translator*	20-TSSOP	5.60	4.48	3.78
ADG3301BKSZ-REEL7CT-ND	Low Volt. 1.15V~5.5V, Single Ch., Bidirectional Logic Level Translator*	SC70-6	1.38	1.15	.92
ADG3301BKSZ-REEL7TR-ND	Low Volt. 1.15V~5.5V, Single Ch., Bidirectional Logic Level Translator*	SC70-6	1794.00/3,000		
ADG3304BCBZ-REEL7CT-ND	Low Volt. 1.15V~5.5V, 4-Ch., Bidirectional Logic Level Translator*	12-WLCSP	2.40	1.92	1.44
ADG3304BCBZ-REEL7TR-ND	Low Volt. 1.15V~5.5V, 4-Ch., Bidirectional Logic Level Translator*	12-WLCSP	3687.00/3,000		
ADG3304BRUZ-ND	Low Volt. 1.15V~5.5V, 4-Ch., Bidirectional Logic Level Translator*	14-TSSOP	2.63	2.11	1.64
ADG3308BCPZ-REEL7CT-ND	Low Volt. 1.15V~5.5V, 8-Ch., Bidirectional Logic Level Translator*	20-LFCSP	3.60	2.88	2.24
ADG3308BCPZ-REEL7TR-ND	Low Volt. 1.15V~5.5V, 8-Ch., Bidirectional Logic Level Translator*	20-LFCSP	3024.00/1,500		
ADG3308BRUZ-ND	Low Volt. 1.15V~5.5V, 8-Ch., Bidirectional Logic Level Translator*	20-TSSOP	4.39	3.51	2.73

RF/Video

Digi-Key Part No.	Description	Pkg.	1	25	100
ADG601BRTZ-REEL7CT-ND	Switch Tiny 2-Ohm SPST*	SOT-23-6	2.23	1.78	1.34
ADG601BRTZ-REEL7TR-ND	Switch Tiny 2-Ohm SPST*	SOT-23-6	3417.60/3,000		
ADG611YRUZ-ND	Switch Quad 3V to 5V SPST*	16-TSSOP	3.83	3.06	2.38
ADG612YRUZ-ND	Switch Quad 3V to 5V SPST*	16-TSSOP	3.83	3.06	2.38
ADG613YRUZ-ND	Switch Quad 3V to 5V SPST*	16-TSSOP	3.83	3.06	2.38
ADG619BRMZ-ND	Switch 2.7V to 5.5V SPDT*	8-MSOP	2.48	1.98	1.54
ADG619BRTZ-REEL7CT-ND	Switch 2.7V to 5.5V SPDT*	SOT-23-8	2.35	1.88	1.41
ADG619BRTZ-REEL7TR-ND	Switch 2.7V to 5.5V SPDT*	SOT-23-8	3609.00/3,000		
ADG633YCPZ-REEL7CT-ND	Switch Triple SPDT 3V to 5V*	16-LFCSP	2.25	1.80	1.40
ADG633YCPZ-REEL7TR-ND	Switch Triple SPDT 3V to 5V*	16-LFCSP	1912.50/1,500		
ADG633YRUZ-ND	Switch Triple SPDT 3V to 5V*	16-TSSOP	2.25	1.80	1.40
ADG636YRUZ-ND	Switch Dual 3V to 5V SPDT*	14-TSSOP	4.10	3.28	2.55
ADG711BR-ND	Switch Quad SPST 1.8V to 5.5V	16-SOIC	2.72	2.18	1.70
ADG711BRUZ-ND	Switch Quad SPST 1.8V to 5.5V*	16-TSSOP	2.48	1.98	1.54
ADG712BRZ-ND	Switch Quad SPST 1.8V to 5.5V*	16-SOIC	2.48	1.98	1.54
ADG712BRUZ-ND	Switch Quad SPST 1.8V to 5.5V*	16-TSSOP	2.48	1.98	1.54
ADG713BRUZ-ND	Switch Quad SPST 1.8V to 5.5V*	16-TSSOP	2.48	1.98	1.54
ADG714BRUZ-ND	Switch Octal Serial 2.7V to 5.5V*	24-TSSOP	4.82	3.86	3.00
ADG715BRUZ-ND	Switch Octal Serial 2.7V to 5.5V*	24-TSSOP	4.82	3.86	3.00
ADG719BRMZ-ND	Switch Single SPDT 1.8V to 5.5V*	8-MSOP	1.93	1.54	1.16
ADG719BRTZ-REEL7CT-ND	Switch SPDT 1.8V to 5.5V*	SOT-23-6	1.75	1.40	1.05
ADG719BRTZ-REEL7TR-ND	Switch SPDT 1.8V to 5.5V*	SOT-23-6	2688.00/3,000		
ADG721BRMZ-ND	Switch Dual SPST 1.8V to 5.5V*	8-MSOP	1.93	1.54	1.16
ADG723BRMZ-ND	Switch Dual SPST 1.8V to 5.5V*	8-MSOP	1.93	1.54	1.16
ADG734BRUZ-ND	Switch Quad 1.8V to 5.5V SPDT*	20-TSSOP	3.71	2.97	2.31
ADG734BRU-REEL7CT-ND	Switch Quad 1.8V to 5.5V SPDT	20-TSSOP	4.10	3.28	2.55
ADG734BRUZ-REEL7TR-ND	Switch Quad 1.8V to 5.5V SPDT*	20-TSSOP	2103.75/1,000		
ADG736BRMZ-ND	Switch Dual SPDT 1.8V to 5.5V*	10-MSOP	2.30	1.84	1.43
ADG736BRMZ-REEL7TR-ND	Switch Dual SPDT 1.8V to 5.5V*	10-MSOP	1300.50/1,000		
ADG751ARTZ-REEL7CT-ND	Switch SPST Low Voltage CMOS*	SOT-23-6	2.25	1.80	1.35
ADG751ARTZ-REEL7TR-ND	Switch SPST Low Voltage CMOS*	SOT-23-6	3456.00/3,000		
ADG751BRMZ-ND	Switch SPST Low Voltage RF/Video*	8-MSOP	2.50	2.00	1.56
ADG779BKSZ-REEL7CT-ND	Switch SPDT 1.8V to 5.5V*	SC70-6	1.60	1.28	.96
ADG779BKSZ-REEL7TR-ND	Switch SPDT 1.8V to 5.5V*	SC70-6	2457.60/3,000		
ADG788BCPZ-ND	Switch Quad SPDT 1.8V to 5.5V*	20-LFCSP	3.71	2.97	2.31
ADG801BRMZ-ND	Switch Single SPST 1.8V to 5.5V*	8-MSOP	2.41	1.93	1.50
ADG802BRMZ-ND	Switch Single SPST 1.8V to 5.5V*	8-MSOP	2.41	1.93	1.50
ADG819BRMZ-ND	Switch Fast SPDT 1.8V to 5.5V*	8-MSOP	2.54	2.04	1.59
ADG821BRMZ-ND	Switch Dual SPST 1.8V to 5.5V*	8-MSOP	2.70	2.16	1.68
ADG822BRMZ-ND	Switch Dual SPST 1.8V to 5.5V*	8-MSOP	2.70	2.16	1.68
ADG823BRMZ-ND	Switch Dual SPST 1.8V to 5.5V*	8-MSOP	2.70	2.16	1.68
ADG836LYRMZ-ND	Switch Dual SPDT 1.65V to 3.6V*	10-MSOP	2.70	2.16	1.68
ADG836YRMZ-ND	Switch Dual SPDT 1.65V to 3.6V*	10-MSOP	2.70	2.16	1.68
ADG901BRM-ND	Switch Single SPST 1.65V to 2.75V	8-MSOP	3.11	2.49	1.94
ADG901BRMZ-ND	Switch Single SPST 1.65V to 2.75V*	8-MSOP	2.81	2.25	1.75
EVAL-ADG901EBZ-ND	Evaluation Board for ADG901*	—	135.00	—	—
ADG902BRM-ND	Switch Single SPST 1.65V to 2.75V	8-MSOP	3.11	2.49	1.94
ADG902BRMZ-ND	Switch Single SPST 1.65V to 2.75V*	8-MSOP	2.81	2.25	1.75
EVAL-ADG902EB-ND	Evaluation Board for ADG902	—	126.56	—	—
ADG918BCPZ-REEL7CT-ND	Switch Wideband 2:1 Mux/SPDT 1.65V to 2.75V*	8-LFCSP	2.41	1.93	1.50
ADG918BCPZ-REEL7TR-ND	Switch Wideband 2:1 Mux/SPDT 1.65V to 2.75V*	8-LFCSP	2046.38/1,500		
ADG918BRMZ-ND	Switch Wideband 2:1 Mux/SPDT 1.65V to 2.75V*	8-MSOP	2.93	2.34	1.82
ADG919BCPZ-REEL7CT-ND	Switch Wideband 2:1 Mux/SPDT1.65V to 2.75V*	8-LFCSP	2.41	1.93	1.50
ADG919BCPZ-REEL7TR-ND	Switch Wideband 2:1 Mux/SPDT 1.65V to 2.75V*	8-LFCSP	2046.38/1,500		
ADG919BRMZ-ND	Switch Wideband 2:1 Mux/SPDT 1.65V to 2.75V*	8-MSOP	2.93	2.34	1.82

CATALYST SEMICONDUCTOR, INC. Digi-Reel® MIXED-SIGNAL — *RoHS Compliant*

LED Drivers and DC/DC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CAT32TDI-TE7CT-ND	CMOS White LED Driver	SOT-23-6	1.30	1.00	.90
CAT32TDI-TE7TR-ND	CMOS White LED Driver	SOT-23-6	1500.00/3,000		
CAT37TDI-TE7CT-ND	CMOS White Led Driver Boost Converter	SOT-23-5	1.30	1.00	.90
CAT37TDI-TE7TR-ND	CMOS White Led Driver Boost Converter	SOT-23-5	1500.00/3,000		
CAT310W-T1CT-ND	10-Channel Automotive LED Display Driver ***NEW!***	20-SOIC	1.72	1.33	1.20
CAT310W-T1TR-ND	10-Channel Automotive LED Display Driver ***NEW!***	20-SOIC	663.00/1,000		
CAT661ELA-ND	100mA High Frequency CMOS Charge Pump Voltage Converter ***NEW!***	8-DIP	2.25	1.70	1.50
CAT661EVA-T3CT-ND	100mA High Frequency CMOS Charge Pump Voltage Converter ***NEW!***	8-SOIC	2.60	2.00	1.80
CAT661EVA-T3TR-ND	100mA High Frequency CMOS Charge Pump Voltage Converter ***NEW!***	8-SOIC	3000.00/3,000		
CAT3200TDI-TE7CT-ND	Adj. Low Noise Regulated Charge Pump DC-DC Converter	SOT-23-6	2.60	2.00	1.80
CAT3200TDI-TE7TR-ND	Adj. Low Noise Regulated Charge Pump DC-DC Converter	SOT-23-6	3000.00/3,000		
CAT3200ZI-TE7CT-ND	Adj. Low Noise Regulated Charge Pump DC-DC Converter	8-MSOP	2.60	2.00	1.80
CAT3200ZI-TE7TR-ND	Adj. Low Noise Regulated Charge Pump DC-DC Converter	8-MSOP	2500.00/2,500		
CAT3604HV4-TE13CT-ND	4-Ch. Regulated Charge Pump White LED Driver	16-TQFN	2.60	2.00	1.80
CAT3604HV4-TE13TR-ND	4-Ch. Regulated Charge Pump White LED Driver	16-TQFN	2000.00/2,000		
CAT3604VHV4-GT2CT-ND	4-Ch. Regulated Charge Pump White LED Driver ***NEW!***	16-TQFN	1.30	1.00	.90
CAT3604VHV4-GT2TR-ND	4-Ch. Regulated Charge Pump White LED Driver ***NEW!***	16-TQFN	1000.00/2,000		
CAT3606HV4-T2CT-ND	6-Ch. Low Noise Charge Pump White LED Driver	16-TQFN	2.60	2.00	1.80
CAT3606HV4-T2TR-ND	6-Ch. Low Noise Charge Pump White LED Driver	16-TQFN	2000.00/2,000		
CAT3612HV2-T2CT-ND	Programmable 300mA Camera Flash LED Driver	12-TDFN	2.15	1.65	1.49
CAT3612HV2-T2TR-ND	Programmable 300mA Camera Flash LED Driver	12-TDFN	1650.00/2,000		
CAT3614HV2-T2CT-ND	4-Channel, 1-Wire LED Driver	12-TDFN	2.28	1.75	1.58
CAT3614HV2-T2TR-ND	4-Channel, 1-Wire LED Driver	12-TDFN	1750.00/2,000		
CAT3626HV4-T2CT-ND	6-Channel LED Driver with I²C Interface	16-TQFN	2.15	1.65	1.49
CAT3626HV4-T2TR-ND	6-Channel LED Driver with I²C Interface	16-TQFN	1650.00/2,000		
CAT3636HV3-T2CT-ND	6-Channel Quad-Mode™ Fractional LED Driver	16-TQFN	2.15	1.65	1.49
CAT3636HV3-T2TR-ND	6-Channel Quad-Mode™ Fractional LED Driver	16-TQFN	1650.00/2,000		
CAT3637HV3-GT2CT-ND	6-Channel Programmable High Efficiency Quad-Mode™ LED Driver ***NEW!***	16-TQFN	2.15	1.65	1.49
CAT3637HV3-GT2TR-ND	6-Channel Programmable High Efficiency Quad-Mode™ LED Driver ***NEW!***	16-TQFN	1650.00/2,000		
CAT3643HV2-T2CT-ND	3-Channel Ultra High Efficiency Quad-Mode™ LED Driver	12-TDFN	1.37	1.05	.95
CAT3643HV2-T2TR-ND	3-Channel Ultra High Efficiency Quad-Mode™ LED Driver	12-TDFN	1050.00/2,000		
CAT3644HV3-T2CT-ND	4-Channel Ultra High Efficiency Quad-Mode™ LED Driver	16-TQFN	1.46	1.13	1.02
CAT3644HV3-T2TR-ND	4-Channel Ultra High Efficiency Quad-Mode™ LED Driver	16-TQFN	1126.00/2,000		
CAT4004VP2-T3CT-ND	4-Channel Constant Current LED Driver with EZDim™	8-TDFN	1.30	1.00	.90
CAT4004VP2-T3TR-ND	4-Channel Constant Current LED Driver with EZDim™	8-TDFN	1500.00/3,000		
CAT4008W-T2CT-ND	8-Channel Constant Current LED Driver ***NEW!***	16-SOIC	1.63	1.25	1.13
CAT4008W-T2TR-ND	8-Channel Constant Current LED Driver ***NEW!***	16-SOIC	1250.00/2,000		
CAT4016HV6-T2CT-ND	16-Channel Constant Current LED Driver	24-TQFN	1.63	1.25	1.13
CAT4016HV6-T2TR-ND	16-Channel Constant Current LED Driver	24-TQFN	1250.00/2,000		
CAT4016VS-T2CT-ND	16-Channel Constant Current LED Driver	24-QSOP	1.63	1.25	1.13
CAT4016VS-T2TR-ND	16-Channel Constant Current LED Driver	24-QSOP	1250.00/2,000		
CAT4016VSR-T2CT-ND	16-Channel Constant Current LED Driver	24-QSOP	1.63	1.25	1.13
CAT4016VSR-T2TR-ND	16-Channel Constant Current LED Driver	24-QSOP	1250.00/2,000		

***RoHS Compliant**

(Continued)

MIXED-SIGNAL *(Continued)* — RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CAT4016W-T1CT-ND	16-Channel Constant Current LED Driver	24-SOIC	1.63	1.25	1.13
CAT4016W-T1TR-ND	16-Channel Constant Current LED Driver	24-SOIC	625.00/1,000		
CAT4016Y-T2CT-ND	16-Channel Constant Current LED Driver	24-TSSOP	1.63	1.25	1.13
CAT4016Y-T2TR-ND	16-Channel Constant Current LED Driver	24-TSSOP	1250.00/2,000		
CAT4134HV2-T2CT-ND	500mA Dual Channel Movie/Flash LED Driver	12-TDFN	1.95	1.50	1.35
CAT4134HV2-T2TR-ND	500mA Dual Channel Movie/Flash LED Driver	12-TDFN	1500.00/2,000		
CAT4137TD-T3CT-ND	CMOS Boost Converter, White LED Driver	SOT-23-5	1.56	1.20	1.08
CAT4137TD-T3TR-ND	CMOS Boost Converter, White LED Driver	SOT-23-5	1800.00/3,000		
CAT4139TD-GT3CT-ND	22V High Current Boost White LED Driver	TSOT-23-5	1.63	1.25	1.13
CAT4139TD-GT3TR-ND	22V High Current Boost White LED Driver	TSOT-23-5	1875.00/3,000		
CAT4201TD-GT3CT-ND	350mA High Efficiency Step Down LED Driver	SOT-23-5	1.95	1.50	1.35
CAT4201TD-GT3TR-ND	350mA High Efficiency Step Down LED Driver	SOT-23-5	2250.00/3,000		
CAT4201EVAL2-ND	Evaluation Board for CAT4201 ***NEW!***	—	39.50	—	—
CAT4237TD-T3CT-ND	High Voltage CMOS Boost White LED Driver	TSOT-23-5	1.95	1.50	1.35
CAT4237TD-T3TR-ND	High Voltage CMOS Boost White LED Driver	TSOT-23-5	2250.00/3,000		
CAT4238TD-GT3CT-ND	High Efficiency 10 LED Boost Converter	TSOT-23-5	2.08	1.60	1.44
CAT4238TD-GT3TR-ND	High Efficiency 10 LED Boost Converter	TSOT-23-5	2400.00/3,000		
CAT4240TD-GT3CT-ND	6W Boost LED Driver ***NEW!***	SOT-23-5	2.08	1.60	1.44
CAT4240TD-GT3TR-ND	6W Boost LED Driver ***NEW!***	SOT-23-5	2400.00/3,000		
CAT9532HV6I-GT2CT-ND	16-Bit Programmable LED Dimmer with I^{2}C Interface	24-TQFN	1.95	1.50	1.35
CAT9532HV6I-GT2TR-ND	16-Bit Programmable LED Dimmer with I^{2}C Interface	24-TQFN	1500.00/2,000		
CAT9532WI-T1CT-ND	16-Bit Programmable LED Dimmer with I^{2}C Interface	24-SOIC	1.95	1.50	1.35
CAT9532WI-T1TR-ND	16-Bit Programmable LED Dimmer with I^{2}C Interface	24-SOIC	750.00/1,000		
CAT9532YI-T2CT-ND	16-Bit Programmable LED Dimmer with I^{2}C Interface	24-TSSOP	1.95	1.50	1.35
CAT9532YI-T2TR-ND	16-Bit Programmable LED Dimmer with I^{2}C Interface	24-TSSOP	1500.00/2,000		

LDO and Linear Regulators

Digi-Key Part No.	Description	Pkg.	1	25	100
CAT6219-180TD-GT3CT-ND	1.8V, 500mA CMOS LDO Regulator	TSOT-23-5	.65	.50	.45
CAT6219-180TD-GT3TR-ND	1.8V, 500mA CMOS LDO Regulator	TSOT-23-5	750.00/3,000		
CAT6219-330TD-GT3CT-ND	3.3V, 500mA CMOS LDO Regulator	TSOT-23-5	.65	.50	.45
CAT6219-330TD-GT3TR-ND	3.3V, 500mA CMOS LDO Regulator	TSOT-23-5	750.00/3,000		
CAT6221-MGTD-GT3CT-ND	Adj., 300mA CMOS Dual LDO Regulator	TSOT-23-6	.91	.70	.63
CAT6221-MGTD-GT3TR-ND	Adj., 300mA CMOS Dual LDO Regulator	TSOT-23-6	1050.00/3,000		
CAT6221-SGTD-GT3CT-ND	Adj., 300mA CMOS Dual LDO Regulator	TSOT-23-6	.91	.70	.63
CAT6221-SGTD-GT3TR-ND	Adj., 300mA CMOS Dual LDO Regulator	TSOT-23-6	1050.00/3,000		

Digital Potentiometers

Digi-Key Part No.	Description	Pkg.	1	25	100
CAT522LI-ND	Dual, 8-Bit DPP™ Configured for Prog. Voltage and DAC Applications	14-Dip	3.71	2.81	2.48
CAT523LI-ND	Dual, 8-Bit DPP™ Configured for Prog. Voltage and DAC Applications	14-Dip	3.56	2.69	2.37
CAT524WI-TE13CT-ND	Quad, 8-Bit DPP™ Configured for Prog. Voltage and DAC Applications	14-SOIC	5.95	4.58	4.12
CAT524WI-TE13TR-ND	Quad, 8-Bit DPP™ Configured for Prog. Voltage and DAC Applications	14-SOIC	4576.00/2,000		
CAT5110TBI-00-T3CT-ND	100k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	1.07	.83	.75
CAT5110TBI-00-T3TR-ND	100k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	1239.00/3,000		
CAT5110TBI-50-T3CT-ND	50k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	1.07	.83	.75
CAT5110TBI-50-T3TR-ND	50k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	1239.00/3,000		
CAT5111VI-10-TE13CT-ND	10k-Ohm, 100-Tap DPP™ with Buffered Wiper	8-SOIC	2.70	2.08	1.87
CAT5111VI-10-TE13TR-ND	10k-Ohm, 100-Tap DPP™ with Buffered Wiper	8-SOIC	2076.00/2,000		
CAT5112VI-10-TE13CT-ND	10k-Ohm, 32-Tap DPP™ with Buffered Wiper	8-SOIC	1.95	1.50	1.35
CAT5112VI-10-TE13TR-ND	10k-Ohm, 32-Tap DPP™ with Buffered Wiper	8-SOIC	1500.00/2,000		
CAT5113VI-10-TE13CT-ND	10k-Ohm, 100-Tap DPP™	8-SOIC	2.50	1.93	1.74
CAT5113VI-10-TE13TR-ND	10k-Ohm, 100-Tap DPP™	8-SOIC	1926.00/2,000		
CAT5114VI-10-TE13CT-ND	10k-Ohm, 32-Tap DPP™	8-SOIC	1.82	1.40	1.26
CAT5114VI-10-TE13TR-ND	10k-Ohm, 32-Tap DPP™	8-SOIC	1400.00/2,000		
CAT5114ZD7I-00-GT3CT-ND	100k-Ohm, 32-Tap DPP™	8-TDFN	1.92	1.48	1.33
CAT5114ZD7I-00-GT3TR-ND	100k-Ohm, 32-Tap DPP™	8-TDFN	2214.00/3,000		
CAT5114ZD7I-10-GT3CT-ND	10k-Ohm, 32-Tap DPP™	8-TDFN	1.92	1.48	1.33
CAT5114ZD7I-10-GT3TR-ND	10k-Ohm, 32-Tap DPP™	8-TDFN	2214.00/3,000		
CAT5114ZD7I-50-GT3CT-ND	50k-Ohm, 32-Tap DPP™	8-TDFN	1.92	1.48	1.33
CAT5114ZD7I-50-GT3TR-ND	50k-Ohm, 32-Tap DPP™	8-TDFN	2214.00/3,000		
CAT5118TBI-00-T3CT-ND	100k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-5	1.07	.83	.75
CAT5118TBI-00-T3TR-ND	100k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-5	1239.00/3,000		
CAT5118TBI-50-GT3CT-ND	50k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-5	1.07	.83	.75
CAT5118TBI-50-GT3TR-ND	50k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-5	1239.00/3,000		
CAT5119TBI-00-GT3CT-ND	100k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	1.07	.83	.75
CAT5119TBI-00-GT3TR-ND	100k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	1239.00/3,000		
CAT5119TBI-50-GT3CT-ND	50k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	1.07	.83	.75
CAT5119TBI-50-GT3TR-ND	50k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	1239.00/3,000		
CAT5120TBI-10-GT3CT-ND	10k-Ohm, 16-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	.98	.75	.68
CAT5120TBI-10-GT3TR-ND	10k-Ohm, 16-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	1125.00/3,000		
CAT5121TBI-10-GT3CT-ND	10k-Ohm, 16-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	.98	.75	.68
CAT5121TBI-10-GT3TR-ND	10k-Ohm, 16-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	1125.00/3,000		
CAT5122TBI-10-GT3CT-ND	10k-Ohm, 16-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-5	.98	.75	.68
CAT5122TBI-10-GT3TR-ND	10k-Ohm, 16-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-5	1125.00/3,000		
CAT5124TBI-50-GT3CT-ND	50k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-5	1.07	.83	.75
CAT5124TBI-50-GT3TR-ND	50k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-5	1239.00/3,000		
CAT5125TBI-10-GT3CT-ND	10k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	1.07	.83	.75
CAT5125TBI-10-GT3TR-ND	10k-Ohm, 32-Tap MiniPot™ Digitally Prog. with 2-Wire Interface	SOT-23-6	1239.00/3,000		
CAT5127ZI-10-T3CT-ND	10k-Ohm, 32-Tap DPP™	8-MSOP	1.07	.83	.75
CAT5127ZI-10-T3TR-ND	10k-Ohm, 32-Tap DPP™	8-MSOP	1239.00/3,000		
CAT5129TDI-10-GT3CT-ND	10k-Ohm, 32-Tap DPP™	TSOT-23-6	1.07	.83	.75
CAT5129TDI-10-GT3TR-ND	10k-Ohm, 32-Tap DPP™	TSOT-23-6	1239.00/3,000		
CAT5132ZI-00-GT3CT-ND	100k-Ohm, 16V DPP™ with 128-Taps and 2-Wire Interface	10-MSOP	2.44	1.88	1.69
CAT5132ZI-00-GT3TR-ND	100k-Ohm, 16V DPP™ with 128-Taps and 2-Wire Interface	10-MSOP	2814.00/3,000		
CAT5221WI-10-TE13CT-ND	10k-Ohm, Dual DPP™ with 64-Taps and 2-Wire Interface	20-SOIC	4.42	3.40	3.06
CAT5221WI-10-TE13TR-ND	10k-Ohm, Dual DPP™ with 64-Taps and 2-Wire Interface	20-SOIC	3400.00/2,000		
CAT5401WI-10-TE13CT-ND	Quad DPP™ with 64-Taps and SPI Interface	24-SOIC	5.59	4.30	3.87
CAT5401WI-10-TE13TR-ND	Quad DPP™ with 64-Taps and SPI Interface	24-SOIC	4300.00/2,000		
CAT5409WI-10-TE13CT-ND	Quad DPP™ with 64-Taps and 2-Wire Interface	24-SOIC	5.59	4.30	3.87
CAT5409WI-10-TE13TR-ND	Quad DPP™ with 64-Taps and 2-Wire Interface	24-SOIC	2150.00/1,000		
CAT5411WI-10-TE13CT-ND	Dual DPP™ with 64-Taps and SPI Interface	24-SOIC	4.26	3.28	2.95
CAT5411WI-10-TE13TR-ND	Dual DPP™ with 64-Taps and SPI Interface	24-SOIC	3276.00/2,000		
CAT5419WI-10-TE13CT-ND	Dual DPP™ with 64-Taps and 2-Wire Interface	24-SOIC	4.26	3.28	2.95
CAT5419WI-10-TE13TR-ND	Dual DPP™ with 64-Taps and 2-Wire Interface	24-SOIC	3276.00/2,000		

Voltage Supervisors

Digi-Key Part No.	Description	Pkg.	1	25	100
CAT706TVI-GT3CT-ND	3.08V Supervisor ***NEW!***	8-SOIC	1.04	.80	.72
CAT706TVI-GT3TR-ND	3.08V Supervisor ***NEW!***	8-SOIC	1200.00/3,000		
CAT706TZI-GT3CT-ND	3.08V Supervisor ***NEW!***	8-MSOP	1.04	.80	.72
CAT706TZI-GT3TR-ND	3.08V Supervisor ***NEW!***	8-MSOP	1200.00/3,000		
CAT803STBI-T3CT-ND	2.93V Open-Drain MPU Supervisor	SOT-23	.39	.30	.27
CAT803STBI-T3TR-ND	2.93V Open-Drain MPU Supervisor	SOT-23	450.00/3,000		
CAT803TTBI-T3CT-ND	3.08V Open-Drain MPU Supervisor	SOT-23	.39	.30	.27
CAT803TTBI-T3TR-ND	3.08V Open-Drain MPU Supervisor	SOT-23	450.00/3,000		
CAT809LSDI-T3CT-ND	4.63V Push-Pull MPU Supervisor	SC70	.42	.33	.30
CAT809LSDI-T3TR-ND	4.63V Push-Pull MPU Supervisor	SC70	489.00/3,000		
CAT809LTBI-T3CT-ND	4.63V Push-Pull MPU Supervisor	SOT-23	.39	.30	.27
CAT809LTBI-T3TR-ND	4.63V Push-Pull MPU Supervisor	SOT-23	450.00/3,000		
CAT809SSDI-T3CT-ND	2.93V Push-Pull MPU Supervisor	SC70	.42	.33	.30
CAT809SSDI-T3TR-ND	2.93V Push-Pull MPU Supervisor	SC70	489.00/3,000		
CAT809STBI-T3CT-ND	2.93V Push-Pull MPU Supervisor	SOT-23	.39	.30	.27
CAT809STBI-T3TR-ND	2.93V Push-Pull MPU Supervisor	SOT-23	450.00/3,000		
CAT809TSDI-T3CT-ND	3.08V Push-Pull MPU Supervisor	SC70	.42	.33	.30
CAT809TSDI-T3TR-ND	3.08V Push-Pull MPU Supervisor	SC70	489.00/3,000		
CAT809TTBI-T3CT-ND	3.08V Push-Pull MPU Supervisor	SOT-23	.39	.30	.27
CAT809TTBI-T3TR-ND	3.08V Push-Pull MPU Supervisor	SOT-23	450.00/3,000		
CAT810LSDI-T3CT-ND	4.63V Push-Pull MPU Supervisor	SC70	.42	.33	.30
CAT810LSDI-T3TR-ND	4.63V Push-Pull MPU Supervisor	SC70	489.00/3,000		
CAT810LTBI-T3CT-ND	4.63V Push-Pull MPU Supervisor	SOT-23	.39	.30	.27
CAT810LTBI-T3TR-ND	4.63V Push-Pull MPU Supervisor	SOT-23	450.00/3,000		
CAT810SSDI-T3CT-ND	2.93V Push-Pull MPU Supervisor	SC70	.42	.33	.30
CAT810SSDI-T3TR-ND	2.93V Push-Pull MPU Supervisor	SC70	489.00/3,000		
CAT810STBI-T3CT-ND	2.93V Push-Pull MPU Supervisor	SOT-23	.39	.30	.27
CAT810STBI-T3TR-ND	2.93V Push-Pull MPU Supervisor	SOT-23	450.00/3,000		
CAT810TSDI-T3CT-ND	3.08V Push-Pull MPU Supervisor	SC70	.42	.33	.30
CAT810TSDI-T3TR-ND	3.08V Push-Pull MPU Supervisor	SC70	489.00/3,000		
CAT810TTBI-T3CT-ND	3.08V Push-Pull MPU Supervisor	SOT-23	.39	.30	.27
CAT810TTBI-T3TR-ND	3.08V Push-Pull MPU Supervisor	SOT-23	450.00/3,000		
CAT811LTBI-T3CT-ND	4.63V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	.49	.38	.34
CAT811LTBI-T3TR-ND	4.63V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	564.00/3,000		
CAT811STBI-T3CT-ND	2.93V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	.49	.38	.34
CAT811STBI-T3TR-ND	2.93V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	564.00/3,000		
CAT811TTBI-T3CT-ND	3.08V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	.49	.38	.34
CAT811TTBI-T3TR-ND	3.08V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	564.00/3,000		
CAT812LTBI-T3CT-ND	4.63V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	.49	.38	.34
CAT812LTBI-T3TR-ND	4.63V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	564.00/3,000		
CAT812STBI-T3CT-ND	2.93V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	.49	.38	.34
CAT812STBI-T3TR-ND	2.93V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	564.00/3,000		
CAT812TTBI-T3CT-ND	3.08V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	.49	.38	.34
CAT812TTBI-T3TR-ND	3.08V Push-Pull MPU Supervisor with Manual Reset	SOT-143-4	564.00/3,000		
CAT813TVI-GT3CT-ND	4.65V Supervisor ***NEW!***	8-SOIC	1.04	.80	.72
CAT813TVI-GT3TR-ND	4.65V Supervisor ***NEW!***	8-SOIC	1200.00/3,000		
CAT813TZI-GT3CT-ND	4.65V Supervisor ***NEW!***	8-MSOP	1.04	.80	.72
CAT813TZI-GT3TR-ND	4.65V Supervisor ***NEW!***	8-MSOP	1200.00/3,000		
CAT823TTDI-GT3CT-ND	3.08V Push-Pull MPU Supervisor with WD and Manual Reset	SOT-23-5	.75	.58	.52
CAT823TTDI-GT3TR-ND	3.08V Push-Pull MPU Supervisor with WD and Manual Reset	SOT-23-5	864.00/3,000		
CAT1021WI-25-T3CT-ND	2.55V Supervisor w/I^{2}C Serial Memory, Manual Reset and WD	8-SOIC	.98	.75	.68
CAT1021WI-25-T3TR-ND	2.55V Supervisor w/I^{2}C Serial Memory, Manual Reset and WD	8-SOIC	1125.00/3,000		
CAT1022WI-25-T3CT-ND	2.55V Supervisor w/I^{2}C Serial Memory, Manual Reset and WD	8-SOIC	.98	.75	.68
CAT1022WI-25-T3TR-ND	2.55V Supervisor w/I^{2}C Serial Memory, Manual Reset and WD	8-SOIC	1125.00/3,000		
CAT1023WI-28-T3CT-ND	2.85V Supervisor w/I^{2}C Serial Memory, Manual Reset and WD	8-SOIC	.98	.75	.68
CAT1023WI-28-T3TR-ND	2.85V Supervisor w/I^{2}C Serial Memory, Manual Reset and WD	8-SOIC	1125.00/3,000		

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CATALYST SEMICONDUCTOR, INC. Digi-Reel® MIXED-SIGNAL *(Continued)* — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CAT1025WI-25-T3CT-ND	2.55V Supervisor with I^{2}C Serial Memory, Manual Reset	8-SOIC	.98	.75	.68
CAT1025WI-25-T3TR-ND	2.55V Supervisor with I^{2}C Serial Memory, Manual Reset	8-SOIC	1125.00/3,000		
CAT1026WI-25-T3CT-ND	2.55V Dual Voltage Supervisor with I^{2}C Serial Memory	8-SOIC	.98	.75	.68
CAT1026WI-25-T3TR-ND	2.55V Dual Voltage Supervisor with I^{2}C Serial Memory	8-SOIC	1125.00/3,000		
CAT1027WI-28-T3CT-ND	2.85V Dual Voltage Supervisor with I^{2}C Serial Memory	8-SOIC	.98	.75	.68
CAT1027WI-28-T3TR-ND	2.85V Dual Voltage Supervisor with I^{2}C Serial Memory	8-SOIC	1125.00/3,000		
CAT1161WI-42-T3CT-ND	4.25V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1.27	.98	.88
CAT1161WI-42-T3TR-ND	4.25V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1464.00/3,000		
CAT1161WI-45-T3CT-ND	4.5V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1.27	.98	.88
CAT1161WI-45-T3TR-ND	4.5V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1464.00/3,000		
CAT1162WI-45-T3CT-ND	4.5V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1.27	.98	.88
CAT1162WI-45-T3TR-ND	4.5V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1464.00/3,000		
CAT1163WI-30-T3CT-ND	3V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1.27	.98	.88
CAT1163WI-30-T3TR-ND	3V Supervisor with I^{2}C Serial Memory, Precision Reset Controller/WD	8-SOIC	1464.00/3,000		
CAT1232LPV-T3CT-ND	5V Supply Monitor, Watchdog, and Manual Reset	8-SOIC	1.14	.88	.79
CAT1232LPV-T3TR-ND	5V Supply Monitor, Watchdog, and Manual Reset	8-SOIC	1314.00/3,000		
CAT1320WI-25-TE13CT-ND	2.55V Supervisor with I^{2}C Serial 32K Memory	8-SOIC	1.46	1.13	1.02
CAT1320WI-25-TE13TR-ND	2.55V Supervisor with I^{2}C Serial 32K Memory	8-SOIC	1126.00/2,000		
CAT1320WI-28-TE13CT-ND	2.85V Supervisor with I^{2}C Serial 32K Memory	8-SOIC	1.46	1.13	1.02
CAT1320WI-28-TE13TR-ND	2.85V Supervisor with I^{2}C Serial 32K Memory	8-SOIC	1126.00/2,000		
CAT1320WI-42-TE13CT-ND	4.25V Supervisor with I^{2}C Serial 32K Memory	8-SOIC	1.46	1.13	1.02
CAT1320WI-42-TE13TR-ND	4.25V Supervisor with I^{2}C Serial 32K Memory	8-SOIC	1126.00/2,000		
CAT1640WI-28-TE13CT-ND	2.85V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	1.63	1.25	1.13
CAT1640WI-28-TE13TR-ND	2.85V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	1250.00/2,000		
CAT1640WI-42-TE13CT-ND	4.25V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	1.63	1.25	1.13
CAT1640WI-42-TE13TR-ND	4.25V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	1250.00/2,000		
CAT1641WI-28-TE13CT-ND	2.85V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	1.63	1.25	1.13
CAT1641WI-28-TE13TR-ND	2.85V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	1250.00/2,000		
CAT1641WI-42-TE13CT-ND	4.25V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	1.63	1.25	1.13
CAT1641WI-42-TE13TR-ND	4.25V Supervisor with I^{2}C Serial 64K Memory	8-SOIC	1250.00/2,000		
CAT1832V-T3CT-ND	3.3V Supply Monitor, Watchdog, and Manual Reset	8-SOIC	1.14	.88	.79
CAT1832V-T3TR-ND	3.3V Supply Monitor, Watchdog, and Manual Reset	8-SOIC	1314.00/3,000		
CAT130019SWI-GT3CT-ND	2.85V Supervisor with 1-Kb Memory	8-SOIC	.81	.63	.57
CAT130019SWI-GT3TR-ND	2.85V Supervisor with 1-Kb Memory	8-SOIC	939.00/3,000		
CAT140089SWI-GT3CT-ND	2.85V Supervisor with I^{2}C Serial 8K Memory	8-SOIC	.88	.68	.61
CAT140089SWI-GT3TR-ND	2.85V Supervisor with I^{2}C Serial 8K Memory	8-SOIC	1014.00/3,000		
CAT150049SWI-GT3CT-ND	2.85V Supervisor with 4-Kb SPI Serial Memory	8-SOIC	1.01	.78	.70
CAT150049SWI-GT3TR-ND	2.85V Supervisor with 4-Kb SPI Serial Memory	8-SOIC	1164.00/3,000		

I/O Expanders

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CAT9554AWI-GT2CT-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-SOIC	1.63	1.25	1.13
CAT9554AWI-GT2TR-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-SOIC	1250.00/2,000		
CAT9554AYI-GT2CT-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-TSSOP	1.63	1.25	1.13
CAT9554AYI-GT2TR-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-TSSOP	1250.00/2,000		
CAT9554WI-GT2CT-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-SOIC	1.63	1.25	1.13
CAT9554WI-GT2TR-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-SOIC	1250.00/2,000		
CAT9554YI-GT2CT-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-TSSOP	1.63	1.25	1.13
CAT9554YI-GT2TR-ND	8-Bit I^{2}C and SMBus I/O Port with Interrupt	16-TSSOP	1250.00/2,000		
CAT9555WI-T1CT-ND	16-Bit I^{2}C and SMBus I/O Port with Interrupt	24-SOIC	1.95	1.50	1.35
CAT9555WI-T1TR-ND	16-Bit I^{2}C and SMBus I/O Port with Interrupt	24-SOIC	1500.00/2,000		

CATALYST SEMICONDUCTOR, INC. Digi-Reel® MEMORY — *RoHS Compliant*

Serial EEPROMs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CAT24C01LI-G-ND	1-Kb CMOS Serial EEPROM	8-Dip	.43	.33	.29
CAT24C01WI-GT3CT-ND	1-Kb CMOS Serial EEPROM	8-SOIC	.55	.43	.39
CAT24C01WI-GT3TR-ND	1-Kb CMOS Serial EEPROM	8-SOIC	639.00/3,000		
CAT24C02LI-G-ND	2-Kb CMOS Serial EEPROM	8-Dip	.43	.33	.29
CAT24C02WI-GT3CT-ND	2-Kb CMOS Serial EEPROM	8-SOIC	.55	.43	.39
CAT24C02WI-GT3TR-ND	2-Kb CMOS Serial EEPROM	8-SOIC	639.00/3,000		
CAT24C02YI-GT3CT-ND	2-Kb CMOS Serial EEPROM	8-TSSOP	.55	.43	.39
CAT24C02YI-GT3TR-ND	2-Kb CMOS Serial EEPROM	8-TSSOP	639.00/3,000		
CAT24C03YI-GT3CT-ND	2-Kb I^{2}C Serial EEPROM	8-TSSOP	.55	.43	.39
CAT24C03YI-GT3TR-ND	2-Kb I^{2}C Serial EEPROM	8-TSSOP	639.00/3,000		
CAT24C04LI-G-ND	4-Kb CMOS Serial EEPROM	8-Dip	.47	.36	.32
CAT24C04YI-GT3CT-ND	4-Kb CMOS Serial EEPROM	8-TSSOP	.62	.48	.43
CAT24C04YI-GT3TR-ND	4-Kb CMOS Serial EEPROM	8-TSSOP	714.00/3,000		
CAT24C05LI-G-ND	4-Kb I^{2}C Serial EEPROM	8-Dip	.47	.36	.32
CAT24C05WI-GT3CT-ND	4-Kb I^{2}C Serial EEPROM	8-SOIC	.62	.48	.43
CAT24C05WI-GT3TR-ND	4-Kb I^{2}C Serial EEPROM	8-SOIC	714.00/3,000		
CAT24C05YI-GT3CT-ND	4-Kb I^{2}C Serial EEPROM	8-TSSOP	.62	.48	.43
CAT24C05YI-GT3TR-ND	4-Kb I^{2}C Serial EEPROM	8-TSSOP	714.00/3,000		
CAT24C08LI-G-ND	8-Kb CMOS Serial EEPROM	8-Dip	.52	.40	.35
CAT24C08WI-GT3CT-ND	8-Kb CMOS Serial EEPROM	8-SOIC	.68	.53	.48
CAT24C08WI-GT3TR-ND	8-Kb CMOS Serial EEPROM	8-SOIC	789.00/3,000		
CAT24C08YI-GT3CT-ND	8-Kb CMOS Serial EEPROM	8-TSSOP	.68	.53	.48
CAT24C08YI-GT3TR-ND	8-Kb CMOS Serial EEPROM	8-TSSOP	789.00/3,000		
CAT24C16LI-G-ND	16-Kb CMOS Serial EEPROM	8-Dip	.56	.43	.38
CAT24C16WI-GT3CT-ND	16-Kb CMOS Serial EEPROM	8-SOIC	.75	.58	.52
CAT24C16WI-GT3TR-ND	16-Kb CMOS Serial EEPROM	8-SOIC	864.00/3,000		
CAT24C16YI-GT3CT-ND	16-Kb CMOS Serial EEPROM	8-TSSOP	.75	.58	.52
CAT24C16YI-GT3TR-ND	16-Kb CMOS Serial EEPROM	8-TSSOP	864.00/3,000		
CAT24C32LI-G-ND	32-Kb I^{2}C CMOS Serial EEPROM	8-Dip	.79	.60	.53
CAT24C32WI-GT3CT-ND	32-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	1.07	.83	.75
CAT24C32WI-GT3TR-ND	32-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	1239.00/3,000		
CAT24C32YI-GT3CT-ND	32-Kb I^{2}C CMOS Serial EEPROM	8-TSSOP	1.07	.83	.75
CAT24C32YI-GT3TR-ND	32-Kb I^{2}C CMOS Serial EEPROM	8-TSSOP	1239.00/3,000		
CAT24C64LI-G-ND	64-Kb I^{2}C CMOS Serial EEPROM	8-Dip	.95	.72	.63
CAT24C64WI-GT3CT-ND	64-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	1.30	1.00	.90
CAT24C64WI-GT3TR-ND	64-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	1500.00/3,000		
CAT24C64YI-GT3CT-ND	64-Kb I^{2}C CMOS Serial EEPROM	8-TSSOP	1.30	1.00	.90
CAT24C64YI-GT3TR-ND	64-Kb I^{2}C CMOS Serial EEPROM	8-TSSOP	1500.00/3,000		
CAT24C128LI-G-ND	128-Kb I^{2}C CMOS Serial EEPROM	8-Dip	1.28	.97	.86
CAT24C128WI-GT3CT-ND	128-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	1.79	1.38	1.24
CAT24C128WI-GT3TR-ND	128-Kb I^{2}C CMOS Serial EEPROM	8-SOIC	2064.00/3,000		
CAT24C256LI-G-ND	256-Kb I^{2}C CMOS Serial EEPROM	8-Dip	1.96	1.48	1.31
CAT25C64LI-G-ND	64-Kb SPI Serial CMOS EEPROM	8-Dip	1.08	.82	.72
CAT25C64VI-GT3CT-ND	64-Kb SPI Serial CMOS EEPROM	8-SOIC	1.50	1.15	1.04
CAT25C64VI-GT3TR-ND	64-Kb SPI Serial CMOS EEPROM	8-SOIC	1725.00/3,000		
CAT25C128VI-GT3CT-ND	128-Kb SPI Serial CMOS EEPROM	8-SOIC	1.98	1.53	1.38
CAT25C128VI-GT3TR-ND	128-Kb SPI Serial CMOS EEPROM	8-SOIC	2289.00/3,000		
CAT25C256LI-G-ND	256-Kb SPI Serial CMOS EEPROM	8-Dip	2.09	1.59	1.40
CAT34C02VP2I-GT4CT-ND	2-Kb I^{2}C EEPROM for DDR2 DIMM Serial Presence Detect	8-TDFN	.68	.53	.48
CAT34C02VP2I-GT4TR-ND	2-Kb I^{2}C EEPROM for DDR2 DIMM Serial Presence Detect	8-TDFN	1052.00/4,000		
CAT34C02YI-G-ND	2-Kb I^{2}C EEPROM for DDR2 DIMM Serial Presence Detect	8-TSSOP	.43	.33	.29
CAT93C46VI-GT3CT-ND	1-Kb Microwire Serial EEPROM	8-SOIC	.49	.38	.34
CAT93C46VI-GT3TR-ND	1-Kb Microwire Serial EEPROM	8-SOIC	564.00/3,000		
CAT93C46WI-GT3CT-ND	1-Kb Microwire Serial EEPROM	8-SOIC	.49	.38	.34
CAT93C46WI-GT3TR-ND	1-Kb Microwire Serial EEPROM	8-SOIC	564.00/3,000		
CAT93C56LI-G-ND	2-Kb Microwire Serial EEPROM	8-Dip	.43	.33	.29
CAT93C56WI-GT3CT-ND	2-Kb Microwire Serial EEPROM	8-SOIC	.55	.43	.39
CAT93C56WI-GT3TR-ND	2-Kb Microwire Serial EEPROM	8-SOIC	639.00/3,000		
CAT93C66LI-G-ND	4-Kb Microwire Serial CMOS EEPROM	8-Dip	.45	.34	.30
CAT93C66VI-GT3CT-ND	4-Kb Microwire Serial CMOS EEPROM	8-SOIC	.59	.45	.41
CAT93C66VI-GT3TR-ND	4-Kb Microwire Serial CMOS EEPROM	8-SOIC	675.00/3,000		
CAT93C66WI-GT3CT-ND	4-Kb Microwire Serial CMOS EEPROM	8-SOIC	.59	.45	.41
CAT93C66WI-GT3TR-ND	4-Kb Microwire Serial CMOS EEPROM	8-SOIC	675.00/3,000		
CAT93C86LI-G-ND	16-Kb Microwire Serial EEPROM	8-Dip	.52	.40	.35
CAT93C86VI-GT3CT-ND	16-Kb Microwire Serial EEPROM	8-SOIC	.68	.53	.48
CAT93C86VI-GT3TR-ND	16-Kb Microwire Serial EEPROM	8-SOIC	789.00/3,000		
CAT25010LI-G-ND	1-Kb SPI Serial CMOS EEPROM	8-Dip	.45	.34	.30
CAT25010VI-GT3CT-ND	1-Kb SPI Serial CMOS EEPROM	8-SOIC	.59	.45	.41
CAT25010VI-GT3TR-ND	1-Kb SPI Serial CMOS EEPROM	8-SOIC	675.00/3,000		
CAT25010YI-GT3CT-ND	1-Kb SPI Serial CMOS EEPROM	8-TSSOP	.59	.45	.41
CAT25010YI-GT3TR-ND	1-Kb SPI Serial CMOS EEPROM	8-TSSOP	675.00/3,000		
CAT25020LI-G-ND	2-Kb SPI Serial CMOS EEPROM	8-Dip	.52	.40	.35
CAT25020VI-GT3CT-ND	2-Kb SPI Serial CMOS EEPROM	8-SOIC	.68	.53	.48
CAT25020VI-GT3TR-ND	2-Kb SPI Serial CMOS EEPROM	8-SOIC	789.00/3,000		
CAT25020YI-GT3CT-ND	2-Kb SPI Serial CMOS EEPROM	8-TSSOP	.68	.53	.48
CAT25020YI-GT3TR-ND	2-Kb SPI Serial CMOS EEPROM	8-TSSOP	789.00/3,000		
CAT25040LI-G-ND	4-Kb SPI Serial CMOS EEPROM	8-Dip	.59	.45	.39
CAT25040VI-GT3CT-ND	4-Kb SPI Serial CMOS EEPROM	8-SOIC	.78	.60	.54
CAT25040VI-GT3TR-ND	4-Kb SPI Serial CMOS EEPROM	8-SOIC	900.00/3,000		
CAT25040YI-GT3CT-ND	4-Kb SPI Serial CMOS EEPROM	8-TSSOP	.78	.60	.54
CAT25040YI-GT3TR-ND	4-Kb SPI Serial CMOS EEPROM	8-TSSOP	900.00/3,000		
CAT25080LI-G-ND	8-Kb SPI Serial CMOS EEPROM	8-Dip	.59	.45	.39
CAT25080VI-GT3CT-ND	8-Kb SPI Serial CMOS EEPROM	8-SOIC	.78	.60	.54
CAT25080VI-GT3TR-ND	8-Kb SPI Serial CMOS EEPROM	8-SOIC	900.00/3,000		
CAT25080YI-GT3CT-ND	8-Kb SPI Serial CMOS EEPROM	8-TSSOP	.78	.60	.54
CAT25080YI-GT3TR-ND	8-Kb SPI Serial CMOS EEPROM	8-TSSOP	900.00/3,000		
CAT25160VI-GT3CT-ND	16-Kb SPI Serial CMOS EEPROM	8-SOIC	.85	.65	.59
CAT25160VI-GT3TR-ND	16-Kb SPI Serial CMOS EEPROM	8-SOIC	975.00/3,000		
CAT25160YI-GT3CT-ND	16-Kb SPI Serial CMOS EEPROM	8-TSSOP	.85	.65	.59
CAT25160YI-GT3TR-ND	16-Kb SPI Serial CMOS EEPROM	8-TSSOP	975.00/3,000		
CAT25320LI-G-ND	32-Kb SPI Serial CMOS EEPROM	8-Dip	.88	.67	.59
CAT25320VI-GT3CT-ND	32-Kb SPI Serial CMOS EEPROM	8-SOIC	1.20	.93	.84
CAT25320VI-GT3TR-ND	32-Kb SPI Serial CMOS EEPROM	8-SOIC	1389.00/3,000		
CAT25320YI-GT3CT-ND	32-Kb SPI Serial CMOS EEPROM	8-TSSOP	1.20	.93	.84
CAT25320YI-GT3TR-ND	32-Kb SPI Serial CMOS EEPROM	8-TSSOP	1389.00/3,000		

Parallel EEPROMs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CAT28C16ALI-90-ND	16-Kb, 90nS, CMOS Parallel EEPROM	24-Dip	5.63	4.25	3.75
CAT28C16AWI-90TCT-ND	16-Kb, 90nS, CMOS Parallel EEPROM	24-SOIC	5.88	4.53	4.08
CAT28C16AWI-90TTR-ND	16-Kb, 90nS, CMOS Parallel EEPROM	24-SOIC	2263.00/1,000		
CAT28C64BLI-12-ND	64-Kb, 120nS, CMOS Parallel EEPROM	28-Dip	3.67	2.78	2.45
CAT28C64BWI-12TCT-ND	64-Kb, 120nS, CMOS Parallel EEPROM	28-SOIC	5.95	4.58	4.12
CAT28C64BWI-12TTR-ND	64-Kb, 120nS, CMOS Parallel EEPROM	28-SOIC	1189.50/500		
CAT28C256H13I-12TCT-ND	256-Kb, 120nS, Parallel EEPROM	28-TSOP	9.10	7.00	6.30
CAT28C256H13I-12TTR-ND	256-Kb, 120nS, Parallel EEPROM	28-TSOP	1820.00/500		
CAT28C256LI-12-ND	256-Kb, 120nS, Parallel EEPROM	28-Dip	5.85	4.42	3.90
CAT28C512LI-12-ND	512-Kb, 120nS, CMOS Parallel EEPROM	32-Dip	17.96	13.57	11.97

Flash Memory

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CAT28F001LI-12B-ND	1-Mb, 120nS, CMOS Bottom Boot Flash Memory	32-Dip	7.92	5.99	5.28
CAT28F010LI-12-ND	1-Mb, 120nS, CMOS Flash Memory	32-Dip	8.21	6.21	5.48
CAT28F020LI-12-ND	2-Mb, 120nS, CMOS Flash Memory	32-Dip	9.65	7.30	6.44
CAT28F512LI-12-ND	512-Kb, 120nS, CMOS Flash Memory	32-Dip	7.09	5.36	4.73

freescale semiconductor ADVANCED CLOCK GENERATORS

Buffers

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC100ES6111AC-ND	Low Voltage Differential Fanout Buffer*	32-LQFP	10.53	7.97	7.35
MPC9448FAR2CT-ND	1:12 LVCMOS Clock Fanout Buffer	32-LQFP	6.43	4.60	4.18

Clock Generators

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC88LV915TEI-ND	Tri-State, 100MHz, Low Voltage PLL Clock Driver*	28-PLCC	8.70	5.94	5.65
MC88LV926DWR2CT-ND	Low Skew CMOS PLL 68060 Clock Driver	20-SOIC	9.07	6.19	5.89
MC14489BDWR2CT-ND	Multi-Character LED Display/Lamp Driver	20-SOG	4.50	2.89	2.61
MC14489BDWR2TR-ND	Multi-Character LED Display/Lamp Driver	20-SOG	2336.00/1,000		
MPC93R51AC-ND	3.3V Low Voltage PLL Clock Generator*	32-LQFP	6.67	4.77	4.33
MPC9330AC-ND	1:6 Low Voltage PLL Clock Synthesizer*	32-LQFP	10.38	7.09	6.74

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Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC3PHACVDWE-ND	High Performance Mono Intelligent Motor Controller	28-SOIC	7.88	6.52	5.95
MC3PHACVPE-ND	High Performance Mono Intelligent Motor Controller	28-Dip	7.88	6.52	5.95
MC3PHACVFAE-ND	High Performance Mono Intelligent Motor Controller*	32-QFP	7.88	6.52	5.38
MC13820FCR2CT-ND	Low Noise Amp with Bypass Switch	12-QFN	1.30	.80	.69
MC33186VW1-ND	20kHz Automotive H-Bridge Driver*	20-HSOP	6.73	5.57	5.09

***RoHS Compliant**

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freescale semiconductor ANALOG *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC33215BE-ND	Telephone Line Interface/Speakerphone Circuit*	42-SDip	5.71	4.73	4.32
MC33285D-ND	40V Dual High Side TMOS Driver	8-SOIC	2.11	1.29	1.11
MC33287DW-ND	Contact Monitoring and Dual Low Side Switch	20-SOIC	2.86	1.74	1.51
MC33287DWR2CT-ND	Contact Monitoring and Dual Low Side Switch	20-SOIC	2.86	1.74	1.51
MC33287DWR2TR-ND	Contact Monitoring and Dual Low Side Switch	20-SOIC	1322.00/1,000		
MC33289DW-ND	Dual High Side Switch for Inductive Loads	20-SOIC	4.53	2.91	2.63
MC33289DWR2CT-ND	Dual High Side Switch for Inductive Loads	20-SOIC	4.53	2.91	2.63
MC33289DWR2TR-ND	Dual High Side Switch for Inductive Loads	20-SOIC	2349.00/1,000		
MC33385VW-ND	Automotive Quad Low-Side Driver*	20-HSOP	9.13	6.52	5.93
MC33389CDWR2CT-ND	System Base Chip with CAN	28-SOIC	8.02	5.48	5.21
MC33389CDWR2TR-ND	System Base Chip with CAN	28-SOIC	5443.00/1,000		
MC33389DDWR2CT-ND	System Base Chip with CAN	28-SOIC	8.02	5.48	5.21
MC33389DDWR2TR-ND	System Base Chip with CAN	28-SOIC	5443.00/1,000		
MC33390DR2CT-ND	Class-B Serial Transceiver	8-SOIC	2.50	1.61	1.45
MC33390DR2TR-ND	Class-B Serial Transceiver	8-SOIC	3140.00/2,500		
MC33399D-ND	Local Interconnect Network Physical Interface (LIN)	8-SOIC	1.53	.94	.81
MC33399DR2CT-ND	Local Interconnect Network Physical Interface (LIN)	8-SOIC	1.53	.94	.81
MC33399DR2TR-ND	Local Interconnect Network Physical Interface (LIN)	8-SOIC	1720.00/2,500		
MC33486ADH-ND	Dual High Side Switch for H-Bridge Auto Applications*	20-HSOP	8.17	6.77	5.31
MC33793D-ND	DSI Slave for Remote Sensing	16-SOIC	3.78	2.43	2.19
MC33882VW-ND	6-Output Low Side Switch*	30-HSOP	6.16	5.10	4.65
MC33880DWB-ND	8-Output Hardware Configurable High-Side/Low-Side Switch with SPI	32-SOIC	5.53	3.36	3.21
MC33883DWR2CT-ND	H-Bridge Gate Driver IC	20-SOIC	5.10	3.27	2.96
MC33883DWR2TR-ND	H-Bridge Gate Driver IC	20-SOIC	2648.00/1,000		
MC33886VW-ND	5.2A Output H-Bridge*	20-HSOP	5.38	3.78	3.45
MC33887DWB-ND	5.0A H-Bridge with Load Current Feedback	54-SOIC	5.08	3.08	2.94
MC33887VW-ND	5.0A H-Bridge with Load Current Feedback*	20-HSOP	5.83	4.10	3.74
MC33887VWR2-ND	5.0A H-Bridge with Load Current Feedback*	20-HSOP	2621.25/750		
MC33888FB-ND	Quad High Side and Octal Low Side Switch	64-QFP	10.09	7.64	7.27
MC33972EW-ND	Multiple Switch Detection Interface*	32-SOIC	4.80	3.08	2.79
MC33972EWR2-ND	Multiple Switch Detection Interface*	32-SOIC	2492.16/1,000		
MC33897EF-ND	Single-Wire CAN Transceiver	14-SOIC	2.80	1.71	1.48
MC33897EFR2CT-ND	Single-Wire CAN Transceiver	14-SOIC	2.80	1.71	1.48
MC33989DW-ND	System Base Chip with High Speed CAN	28-SOIC	6.20	3.76	3.60
MC33990D-ND	Enhanced Class B J1850 Serial Transceiver	8-SOIC	2.63	1.69	1.53
MC33990DR2CT-ND	Enhanced Class B J1850 Serial Transceiver	8-SOIC	2.63	1.69	1.53
MC33990DR2TR-ND	Enhanced Class B J1850 Serial Transceiver	8-SOIC	3297.50/2,500		
MC33993DWB-ND	22-Switch Multiple Detection Interface	32-SOIC	4.58	2.94	2.65
MC33996EK-ND	16-Output Switch with SPI Control*	32-SOIC	6.15	4.33	3.95
MC33997DW-ND	Switching Power Supply with Linear Regulator	24-SOIC	6.13	3.72	3.55
MC33999EK-ND	16-Output Switch with SPI and PWM Control*	54-SOIC	6.37	5.28	4.81
MC34129DR2CT-ND	High Performance Current Mode Controller	14-SOIC	4.25	2.73	2.47
MC34712EP-ND	3A, 1MHz Fully Integrated DDR Switch-Mode Power Supply*	24-QFN	2.53	1.78	1.62
MC34713EP-ND	5A, 1MHz Fully Integrated Switch-Mode Power Supply*	24-QFN	2.53	1.78	1.62
MC34716EP-ND	1MHz Dual Switch-Mode DDR Power Supply*	26-QFN	3.43	2.41	2.06
MC34717EP-ND	5A, 1MHz Fully Integrated Dual Switch-Mode Power Supply*	26-QFN	2.62	2.41	2.20
MC34923EG-ND	Full-Bridge PWM Motor Driver*	24-SOIC	6.03	4.99	4.56
MC34923EGR2CT-ND	Full-Bridge PWM Motor Driver*	24-SOIC	6.03	5.12	4.26
MC34923EGR2TR-ND	Full-Bridge PWM Motor Driver*	24-SOIC	4090.00/1,000		
MC34929EP-ND	Brushless DC 1A, 28V Motor Driver*	24-QFN	2.34	2.15	1.96
MC34940EG-ND	Electric Field Imaging Device*	24-SOIC	2.58	1.81	1.66
MCZ33285EF-ND	Dual High-Side TMOS Driver*	8-SOIC	2.14	1.30	1.13
MCZ33287EG-ND	Contact Monitoring/Dual Low-Side Protected Driver*	20-SOIC	2.86	1.74	1.51
MCZ33290EF-ND	ISO K Line Serial Link Interface*	20-SOIC	1.46	.83	.76
MCZ33290EFR2CT-ND	ISO K Line Serial Link Interface*	8-SOIC	1.46	.76	.69
MCZ33290EFR2TR-ND	ISO K Line Serial Link Interface*	8-SOIC	1395.00/2,500		
MCZ33291EG-ND	8-Out Switch with Serial Peripheral Interface I/O*	24-SOIC	4.28	2.60	2.48
MCZ33291LEG-ND	8-Out Switch with Serial Peripheral Interface I/O*	24-SOIC	3.95	2.40	2.29
MCZ33291LEGR2CT-ND	8-Out Switch with Serial Peripheral Interface I/O*	24-SOIC	3.95	2.54	2.29
MCZ33291LEGR2TR-ND	8-Out Switch with Serial Peripheral Interface I/O*	24-SOIC	2051.00/1,000		
MCZ33298EG-ND	8-Out Switch with Serial Peripheral Interface I/O*	24-SOIC	5.73	4.03	3.32
MCZ33399EF-ND	Local Interconnect Network Physical Interface (LIN)*	8-SOIC	1.59	.90	.83
MCZ33399EFR2CT-ND	Local Interconnect Network Physical Interface (LIN)*	8-SOIC	1.35	.83	.76
MCZ33399EFR2TR-ND	Local Interconnect Network Physical Interface (LIN)*	8-SOIC	1525.00/2,500		
MCZ33661EF-ND	Local Area Network Enhanced Physical Interface*	8-SOIC	1.46	.76	.69
MCZ33689DEW-ND	System Basis Chip with LIN Transceiver*	32-SOIC	2.53	2.32	2.12
MCZ33742EG-ND	System Basis Chip with Enhanced High Speed CAN Transceiver*	28-SOIC	3.73	2.62	2.39
MCZ33742SEG-ND	System Basis Chip with Enhanced High Speed CAN Transceiver*	28-SOIC	3.73	2.62	2.39
MCZ33780EG-ND	Dual DBUS Master with Differential Drive and Freqquency Spreading*	16-SOIC	5.60	4.64	4.24
MCZ33790EG-ND	2-Channel DSI Physical Interface for Bus Master*	16-SOIC	4.23	2.57	2.45
MCZ33790EGR2CT-ND	2-Channel DSI Physical Interface for Bus Master*	16-SOIC	4.23	3.05	2.45
MCZ33790EGR2TR-ND	2-Channel DSI Physical Interface for Bus Master*	16-SOIC	2434.00/1,000		
MCZ33793EF-ND	DSI Sensor Interface*	16-SOIC	2.83	1.99	1.82
MCZ33793EFR2CT-ND	DSI Sensor Interface*	16-SOIC	2.83	1.82	1.70
MCZ33793EFR2TR-ND	DSI Sensor Interface*	16-SOIC	4082.50/2,500		
MCZ33797EK-ND	4-Channel Squib Driver IC*	32-SOIC	5.68	3.99	3.64
MCZ33879AEK-ND	Configurable Octal Serial Switch*	32-SOIC	5.18	3.64	3.32
MCZ33879AEKR2CT-ND	Configurable Octal Serial Switch*	32-SOIC	5.18	3.73	3.11
MCZ33879AEKR2TR-ND	Configurable Octal Serial Switch*	32-SOIC	2981.00/1,000		
MCZ33883EG-ND	H-Bridge Gate Driver IC*	20-SOIC	3.45	3.17	2.89
MCZ33884EG-ND	Switch Monitor Interface*	24-SOIC	2.75	1.94	1.77
MCZ33887EK-ND	5.0A H-Bridge with Load Current Feedback*	54-SOIC	3.68	2.59	2.36
MCZ33887EKR2CT-ND	5.0A H-Bridge with Load Current Feedback*	54-SOIC	3.68	2.65	2.21
MCZ33887EKR2TR-ND	5.0A H-Bridge with Load Current Feedback*	54-SOIC	2117.00/1,000		
MCZ33889BEG-ND	System Basis Chip with Low Speed Fault Tolerant CAN Interface*	28-SOIC	4.98	3.50	3.19
MCZ33889DEG-ND	System Basis Chip with Low Speed Fault Tolerant CAN Interface*	28-SOIC	4.98	3.50	3.19
MCZ33897AEF-ND	Single Wire CAN Transceiver*	14-SOIC	2.37	1.45	1.25
MCZ33897EF-ND	Single Wire CAN Transceiver*	14-SOIC	2.37	1.45	1.25
MCZ33970EG-ND	Dual Gauge Driver Integrated Circuit*	24-SOIC	3.33	2.34	2.14
MCZ33970EGR2CT-ND	Dual Gauge Driver Integrated Circuit*	24-SOIC	3.33	2.40	2.00
MCZ33970EGR2TR-ND	Dual Gauge Driver Integrated Circuit*	24-SOIC	1915.00/1,000		
MCZ33976EG-ND	Dual Gauge Driver with Config. Response Time*	24-SOIC	3.55	2.50	2.28
MCZ33977EG-ND	Single Gauge Driver*	24-SOIC	2.98	2.10	1.91
MCZ33989EG-ND	System Basis Chip with HS CAN Transceiver*	28-SOIC	4.53	3.18	2.91
MCZ33990EF-ND	Enhanced Class B J1850 Serial Transceiver*	8-SOIC	2.22	1.36	1.24
MCZ33998EG-ND	Switching Power Supply with Linear Regulator*	24-SOIC	5.03	3.54	3.23
MCZ34670EG-ND	IEEE 802.3af PD with Current Mode Switching Reg.*	20-SOIC	3.33	2.34	2.14
MCZ34670EGR2CT-ND	IEEE 802.3af PD with Current Mode Switching Reg.*	20-SOIC	3.33	2.40	2.00
MCZ34670EGR2TR-ND	IEEE 802.3af PD with Current Mode Switching Reg.*	20-SOIC	1915.00/1,000		
MM908E624ACEW-ND	Integrated Triple High Side Switch with Embedded MCU and LIN*	54-SOIC	5.46	4.52	4.12
MM908E624ACEWR2CT-ND	Integrated Triple High Side Switch with Embedded MCU and LIN*	54-SOIC	5.46	4.63	3.86
MM908E624ACEWR2TR-ND	Integrated Triple High Side Switch with Embedded MCU and LIN*	54-SOIC	3701.00/1,000		
MM908E625ACEK-ND	Quad H-Bridge with Power Supply*	54-SOIC	8.15	6.75	6.16
MM908E626AVEK-ND	Stepper Motor Driver with Embedded MCU and LIN*	54-SOIC	8.51	7.05	6.43
MPC17550EVELCT-ND	Quad H-Bridge Micromotor Driver with DC/DC Boost Converter	36-MFP	5.60	3.40	3.25
MPC17550EVELTR-ND	Quad H-Bridge Micromotor Driver with DC/DC Boost Converter	36-MFP	5626.00/2,000		
MW4IC2230GNBR1CT-ND	2110-2170MHz, 30W, 28V RF LDMOS Wideband Integrated Power Amp	TO-272	34.88	29.05	27.34
MW4IC2230GNBR1TR-ND	2110-2170MHz, 30W, 28V RF LDMOS Wideband Integrated Power Amp	TO-272	15667.20/500		
MW4IC2230NBR1CT-ND	2110-2170MHz, 30W, 28V RF LDMOS Wideband Integrated Power Amp	TO-272	34.88	29.05	27.34
MW4IC2230NBR1TR-ND	2110-2170MHz, 30W, 28V RF LDMOS Wideband Integrated Power Amp	TO-272	15667.20/500		
MWIC930GNR1CT-ND	746-960MHz, 30W, 26-28V, RF LDMOS Wideband Integrated Power Amp	TO-272	37.02	28.13	27.35
MWIC930GNR1TR-ND	746-960MHz, 30W, 26-28V, RF LDMOS Wideband Integrated Power Amp	TO-272	15254.68/500		
MWIC930NR1CT-ND	746-960MHz, 30W, 26-28V, RF LDMOS Wideband Integrated Power Amp	TO-272	37.02	28.13	27.35
MWIC930NR1TR-ND	746-960MHz, 30W, 26-28V, RF LDMOS Wideband Integrated Power Amp	TO-272	15254.68/500		
KIT33291DWEVB-ND	Evaluation Kit for MC33291	—	110.46	—	—
KIT33880DWBEVB-ND	Evaluation Kit for MC33880	—	147.27	—	—
KIT33886DHEVB-ND	Evaluation Kit for MC33886	—	82.83	—	—
KIT33993DWBEVB-ND	Evaluation Kit for MC33993	—	174.93	—	—

freescale semiconductor DISPLAY DRIVERS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC14489BDWE-ND	5-Channel LED Display/25 Lamp Driver	20-SOG	4.40	3.10	2.83
MC14489BPE-ND	5-Channel LED Display/25 Lamp Driver	20-Dip	3.95	2.78	2.54

freescale semiconductor MEMORY — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MR0A16AYS35-ND	1MB Standalone MRAM	44-TSOP	12.22	10.23	9.19
MR2A16AVYS35-ND	256K x 16-Bit 3.3V Async. 4MB MRAM Ext, 35nS	44-TSOP	26.92	22.54	20.25
MR2A16AYS35-ND	256K x 16-Bit 3.3V Async. 4MB MRAM 35nS	44-TSOP	23.88	21.55	19.77

freescale semiconductor MICROPROCESSORS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC812A4CPVE8-ND	16-Bit Microprocessor	112-LQFP	18.17	16.68	15.22
MC7447AVS733NB-ND	32-Bit, 733MHz RISC Microprocessor	360-LGA	114.44	97.99	92.63
MC7447AVS1000LB-ND	32-Bit, 1000MHz RISC Microprocessor	360-LGA	146.28	131.13	121.23
MC7447AVS1000NB-ND	32-Bit, 1000MHz RISC Microprocessor	360-LGA	165.56	143.62	137.21
MC7447AVS1333LB-ND	32-Bit, 1333MHz RISC Microprocessor	360-LGA	278.15	249.87	—
MPC184VMB-ND	Security Processor	252-MAPBGA	27.88	21.87	20.60
MSC7110VM800-ND	16-Bit DSP Processor	400-MAPBGA	26.67	20.92	19.71
MSC7115VM800-ND	16-Bit DSP Processor	400-MAPBGA	45.97	38.29	36.03
MSC7116VM800-ND	16-Bit DSP Processor	400-MAPBGA	48.11	40.07	37.70

freescale semiconductor INTERFACE — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC44BC375UAEF-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC	16-SOIC	2.25	1.38	1.19
MC44BC375UAEFR2CT-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC	16-SOIC	2.25	1.56	1.41
MC44BC375UAEFR2TR-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC	16-SOIC	3120.00/2,500		
MC44BC375UEF-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC	16-SOIC	1.56	1.33	1.17
MC44BC375UEFR2CT-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC	16-SOIC	2.25	1.38	1.19
MC44BC375UEFR2TR-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC	16-SOIC	2531.10/2,500		
MC44BS374CAEF-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator	16-SOIC	2.56	2.18	1.92
MC44BS374CAEFR2CT-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator	16-SOIC	3.20	2.56	2.31
MC44BS374T1AEF-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator	16-SOIC	3.63	2.33	2.10
MC44BS374T1AEFR2CT-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator	16-SOIC	3.63	2.33	2.10
MC44BS374T1AEFR2TR-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator	16-SOIC	4553.00/2,500		
MC44BS374T1EF-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator	16-SOIC	3.63	2.33	2.10
MC44BS374T1EFR2CT-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator	16-SOIC	3.63	2.33	2.10
MC44BS374T1EFR2TR-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator	16-SOIC	4553.00/2,500		

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RF/IF PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Frequency Conversion					
MC13770FCCT-ND	RF LNA Down Converter	12-QFN	5.75	3.49	3.34
Receivers/Transmitters					
MC33591FTAE-ND	PLL Tuned UHF Receiver, 315, 434MHz*	24-LQFP	3.55	2.28	2.06
MC33591FTAER2-ND	PLL Tuned UHF Receiver, 315, 434MHz*	24-LQFP	4292.00/2,000		
MC33591FTAR2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4.98	3.02	2.89
MC33591FTAR2TR-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4998.00/2,000		
MC33592FTAE-ND	PLL Tuned UHF Receiver, 315, 434MHz*	24-LQFP	3.55	2.28	2.06
MC33592FTAER2-ND	PLL Tuned UHF Receiver, 315, 434MHz*	24-LQFP	4292.00/2,000		
MC33592FTAR2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4.98	3.02	2.89
MC33592FTAR2TR-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4998.00/2,000		
MC33594FTAER2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz*	24-LQFP	4.50	2.89	2.61
MC33594FTAER2TR-ND	PLL Tuned UHF Receiver, 315, 434MHz*	24-LQFP	5184.00/2,000		
MC33594FTAR2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	6.00	3.64	3.48
MC33594FTAR2TR-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	6028.00/2,000		
MC33596FCE-ND	PLL Tuned UHF Receiver for Data Transfer Applications*	32-QFN	3.43	2.41	2.20
MC33596FJE-ND	PLL Tuned UHF Receiver for Data Transfer Applications*	32-LQFP	2.74	2.52	2.30
MC33696FCE-ND	PLL Tuned UHF Transceiver for Data Transfer Applications*	32-QFN	3.68	2.59	2.36
MC33696FJE-ND	PLL Tuned UHF Transceiver for Data Transfer Applications*	32-LQFP	3.88	2.73	2.49

SMOKE DETECTION

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC14467P1-ND	Ionization Smoke Detector	16-Dip	1.47	.90	.78
MC145010DW-ND	Photoelectric Smoke Detector IC with I/O	16-SOIC	2.53	1.62	1.47
MC145012DW-ND	Photoelectric Smoke Detector IC with I/O	16-SOIC	2.58	1.66	1.50
MCZ145012EG-ND	Photoelectric Smoke Detector IC with I/O*	16-SOIC	2.50	1.61	1.45

TELECOMMUNICATIONS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC145484DT-ND	5V PCM Codec-Filter	20-TSSOP	3.38	2.17	1.96
MC145484SDCT-ND	5V PCM Codec-Filter	20-SSOP	3.50	2.25	2.03
MCZ33390EF-ND	Class B Serial Transceiver*	8-SOIC	2.54	1.55	1.34

EMBEDDED INTEL ARCHITECTURE MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
S80C186EB25	802897-ND	25MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-MQFP	18.21	14.34	10.85
A80C186ECI	802919-ND	25MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	132-CPGA	62.32	49.20	42.64
SB80C186EC13	808819-ND	13MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
SB80C186XL12	808823-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-SQFP	11.87	9.35	7.07
TR80C186XL12	803091-ND	12MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-LCC	35.28	27.89	22.68
TN80L186EA13	806072-ND	13MHz, 16-Bit, 80L186EA Enhanced MPU, 3V, Extended Temp.	68-PLCC	14.81	11.66	8.82
S80L186EB16	806099-ND	16MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-MQFP	18.21	14.34	10.85
SB80L186EB13	808880-ND	13MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-SQFP	11.87	9.35	7.07
YW80L186EB13	864163-ND	13MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.*	80-SQFP	11.87	9.35	7.07
SB80L186EB16	806105-ND	16MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-SQFP	11.87	9.35	7.07
KU80L186EC13	806111-ND	13MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-QFP	21.15	16.65	12.60
S80L186EC16	808881-ND	16MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-MQFP	20.70	16.30	12.34
SB80L186EC13	809626-ND	13MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-SQFP	21.00	16.60	13.50
EG80C188EB25	864094-ND	25MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature*	80-MQFP	18.21	14.34	10.85
SB80C188EC13	803618-ND	13MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
YW80C188EC20	864139-ND	20MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature*	100-SQFP	21.00	16.60	13.50
A80C188XL25	803884-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	68-PGA	42.00	33.20	27.00
S80C188XL12	803759-ND	12MHz, 16-Bit, 80C188XL MPU, 5V	80-MQFP	11.69	9.35	6.17
S80C188XL25	808831-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	80-MQFP	11.69	9.35	6.17
SB80C188XL12	803769-ND	12MHz, 16-Bit, 80C188XL MPU, 5V	80-SQFP	13.04	10.27	7.77
N80L188EB16	806163-ND	16MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temp.	84-PLCC	16.22	12.77	9.66
TS80L188EB13	806156-ND	13MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temp.	80-MQFP	17.27	13.60	10.29
SB80L188EC13	806197-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-SQFP	15.44	12.21	9.93
SB80L188EC16	809627-ND	16MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-SQFP	15.44	12.21	9.93
TS80L188EC13	808882-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-MQFP	20.70	16.30	12.34
NG88CO196EC40	859794-ND	40MHz, 16-Bit MCU with 256Kb on Chip Flash Memory	132-QFP	23.10	18.26	14.85
TG88CO196EC40	859797-ND	40MHz, 16-Bit MCU with 256Kb on Chip Flash Memory Ext. Temp.	132-QFP	24.26	19.18	15.60
A80386DX16	807050-ND	16MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	52.50	41.50	33.75
A80386DX20	807066-ND	20MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	52.50	41.50	33.75
A80386DX25	807094-ND	25MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	52.50	41.50	33.75
NG80386DX20	807082-ND	20MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	13.87	10.92	8.26
NG80386DX25	807111-ND	25MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	13.87	10.92	8.26
NG80386DX33	807141-ND	33MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	13.87	10.92	8.26
KU80386SXTA25	800169-ND	25MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	15.04	11.84	8.96
KU80386SXTA33	800175-ND	33MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	15.04	11.84	8.96
KU80386SXTA40	800183-ND	40MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	15.04	11.84	8.96
NG80386SX33	800353-ND	33MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
NG80386SXLP20	800112-ND	20MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	15.28	12.03	9.10
NG80386SXLP25	800134-ND	25MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
NG80386SXLP33	800149-ND	33MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
A80486DX2SA50SX912	800940-ND	50MHz, 32-Bit, 486DX2 MPU, 5.0V	168-PGA	54.15	42.75	37.05
SB80486DX2SC50SX920	800952-ND	50MHz, 32-Bit, 486DX2 MPU, 3.3V	208-SQFP	38.05	30.08	24.47
FA80486GXSF33	801241-ND	33MHz, 32-Bit, 486GX MPU, 3.3V	176-TQFP	33.08	26.15	21.27
A80486SXSA33SX931	801301-ND	33MHz, 32-Bit, 486SX MPU, 5.0V	168-PGA	66.50	52.50	45.50
KC80524KX366128SL3C7	822451-ND	366MHz, LP Celeron, 66MHz Bus, 128K L2 Cache, 1.6V	615-BGA	108.90	95.70	84.15
KC80526LY400128SL4J8	830981-ND	400MHz, LP Celeron, 100MHz Bus, 128K L2 Cache, 1.3V	495-BGA	91.20	72.00	62.40
KC80526LY400128SL544	833480-ND	400MHz, Celeron, 100MHz Bus, 128K L2 Cache, 1.35V	495-BGA	85.50	67.50	58.50
RB80526RX733128SL52Y	833440-ND	733MHz, Celeron, 66MHz Bus, 128K L2 Cache, 1.7V	370-FC-PGA	66.50	52.50	45.50
RB80526RY850128SL54Q	833470-ND	850MHz, Celeron, 100MHz Bus, 128K L2 Cache, 1.75V	370-PGA	66.50	52.50	45.50
LF80538KF0281M	884318-ND	1.66GHz Celeron Processor for Embedded Computing*	478-PGA	132.00	116.00	102.00
RK80532RC041128SL6VR	852181-ND	2GHz Celeron Processor	478-FC-PGA2	57.00	45.00	39.00
HH80557RG041512	886890-ND	2GHz Celeron Processor*	775-LGA	76.00	60.00	52.00
LE80536VC001512	871728-ND	1GHz Celeron M ULV Processor*	479-BGA	113.85	100.05	87.98
LE80538VE0041M	883549-ND	1.06GHz Celeron M Proc. 533MHz Bus, 1Mb L2 Cache*	479-BGA	199.50	187.50	180.00
LE80535NC013512	870148-ND	1.3GHz Celeron M Proc.*	478-BGA	85.50	67.50	58.50
LE80536NC0211M	872115-ND	1.5GHz Celeron M Proc.*	479-BGA	107.25	94.25	82.88
LE80538NE0361M	884036-ND	1.86GHz Celeron M Proc. 533MHz Bus, 1Mb L2 Cache*	479-BGA	132.00	116.00	102.00
LF80538NE0361M	883490-ND	1.86GHz Celeron M Proc. 533MHz Bus, 1Mb L2 Cache*	478-BGA	132.00	116.00	102.00
GC80503CS166EXTSL3B8	822631-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.8V, Low Power	352-BGA	76.00	60.00	52.00
GC80503CSM66166SL388	821225-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.9V	352-BGA	76.00	60.00	52.00
KC80526LY400256SL546	833482-ND	400MHz, LP Pentium III, 100MHz Bus, 256K L2 Cache, 1.35V	495-BGA	123.75	108.75	95.63
RB80526PY600256S L5BT	834318-ND	600MHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-FC-PGA	123.75	108.75	95.63
RB80526PY700256S L4ZM	833747-ND	700MHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-FC-PGA	123.75	108.75	95.63
RB80526PY850256S L4Z2	833400-ND	850MHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-FC-PGA	123.75	108.75	95.63
RB80526PZ001256SL52R	833416-ND	1.0GHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-PGA	132.00	116.00	102.00
RB80526PY001256S L5QV	836655-ND	1.0GHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-FC-PGA	132.00	116.00	102.00
RJ80530KZ933512S L69K	849162-ND	933MHz, Pentium III, 133MHz Bus, 512K L2 Cache, 1.15V	470-µFC-BGA	269.99	253.75	243.60
RH80532GC029512SL6V6	852229-ND	1.7GHz, Pentium 4	478-MFC-PGA	220.78	207.50	199.20
RK80532PE056512S L6PC	850158-ND	2.4GHz, Pentium 4, 400MHz Bus, 512K L2 Cache, 1.5V	478-µFC-BGA	107.25	94.25	82.88
RK80532PC064512SL6PP	850365-ND	2.6GHz, Pentium 4, Front Side Bus, 400MHz	478-FC-PGA2	107.25	94.25	82.88
NE80546PG0801M	872636-ND	3GHz, Pentium 4, 800MHz Bus, with Hyper Threading*	478-PGA	148.50	130.50	114.75
HH80547PG0961MM	880712-ND	3.4GHz, Pentium 4, 800MHz Bus, with Hyper Threading*	775-LGA	144.97	133.53	130.80
RJ80535LC0051MSL6NC	851287-ND	1.1GHz, Pentium M	478-MFC-PGA	337.82	317.50	304.80
RH80532GC029512S L6FG	848089-ND	1.7GHz, Pentium 4 Mobile, 400MHz Bus, 512K L2 Cache, 1.3V	478-µFC-BGA	220.78	207.50	199.20
RK80532EC025512SL6XK	852509-ND	1.6GHz, Xeon LV	604-FC-mPGA-2P	266.00	250.00	240.00
RK80532EC041512SL6XL	852510-ND	2GHz, Xeon LV	604-FC-mPGA-2P	272.65	256.25	246.00
RK80532KE056512SL73L	854163-ND	2.4GHz, Xeon	604-FC-mPGA-2P	258.02	242.50	232.80
NE80546EG0721M	873425-ND	2.8GHz, Xeon 64-Bit, LV*	478-PGA	335.16	315.00	302.40
NE80546KG0881M	872548-ND	3.2GHz, Xeon 64-Bit*	604-PGA	408.31	383.75	368.40

STRONG ARM® PROCESSOR

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
21281DB	821351-ND	166MHz, Strong Arm SA-110 Microprocessor	144-TQFP	30.98	24.49	19.92

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NETWORK PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
GCIXP1200EB	829764-ND	2V, 200MHz, Network Processor	432-BGA	251.90	236.75	227.28
GCIXP1200FC	833956-ND	2V, 232MHz, Network Processor	432-BGA	338.09	317.75	305.04
GCIXP1200GA	839427-ND	2V, 166MHz, Network Processor	432-BGA	192.32	180.75	173.52
GCIXP1200GB	839428-ND	2V, 200MHz, Network Processor	432-BGA	251.90	236.75	227.28
GCIXP1200GC	839429-ND	2V, 232MHz, Network Processor	432-BGA	338.09	317.75	305.04
GCIXP1240AA	837150-ND	2V, 166MHz, Network Processor with CRC Support	432-BGA	258.55	243.00	233.28
GCIXP1240AB	837151-ND	2V, 200MHz, Network Processor with CRC Support	432-BGA	318.27	299.13	287.16
GCIXP1250BA	837411-ND	2V, 166MHz, Network Processor with CRC and ECC Support	520-BGA	271.85	255.50	245.28
GCIXP1250BB	837412-ND	2V, 200MHz, Network Processor with CRC and ECC Support	520-BGA	331.44	311.50	299.04
GCIXP1250BC	837414-ND	2V, 232MHz, Network Processor with CRC and ECC Support	520-BGA	417.62	392.50	376.80
NHIXP430AC	885691-ND	400MHz IXP430 Network Processor*	460-BGA	22.49	17.78	14.46
NHIXP430ACT	893005-ND	400MHz IXP430 Network Processor*	460-BGA	25.85	20.44	16.62
NHIXP430AD	885692-ND	533MHz IXP430 Network Processor*	460-BGA	34.78	27.49	22.36
NHIXP430AE	885693-ND	667MHz IXP430 Network Processor*	460-BGA	40.57	32.08	26.09

I/O PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
GC80303 S L57T	833962-ND	100MHz, 3.3V, I/O Processor, 64-Bit PCI-PCI Bridge	540-BGA	126.06	110.78	97.41
GC80960RM100SL3YZ	827794-ND	100MHz, 3.3V, I/O Processor, 32-Bit PCI-PCI Bridge	540-BGA	102.00	89.64	78.83

MCS® 51 MICROCONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
N80C51RA24	804579-ND	5V, 24MHz, 8-Bit MCU	44-PLCC	18.98	15.18	10.01
EE87C51RB1	864637-ND	5V, 16MHz, 8-Bit, 16K OTP EPROM*	44-PLCC	9.35	7.48	4.93
S80C51RA1	804523-ND	5V, 16MHz, 8-Bit MCU	44-MQFP	9.20	7.36	4.37
S80C51RA24	804592-ND	5V, 24MHz, 8-Bit MCU	44-MQFP	6.33	5.06	3.34
TS80C51RA1	804534-ND	5V, 16MHz, 8-Bit MCU Ext. Temp.	44-MQFP	6.74	5.39	3.56
TS80C51RA24	804603-ND	5V, 24MHz, 8-Bit MCU Ext. Temp.	44-MQFP	6.74	5.39	3.56
TS87C51FA1SF76	811518-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM MCU, Extended Temp.	44-QFP	8.11	6.49	4.28
QX87C51FC20	863910-ND	5V, 20MHz, 8-Bit, 32K OTP MCU, Automotive*	44-PLCC	21.02	16.62	13.52
EE87C51RA24	864004-ND	5V, 24MHz, 8-Bit, 8K OTP MCU*	44-PLCC	8.25	6.60	4.35
S87C51FA1SF76	804439-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-MQFP	7.70	6.16	4.06
S87C51FA24SF76	810749-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-MQFP	7.70	6.16	4.06
S87C51FB24SF76	811017-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.05	5.55	4.20
S87C51FB33SF76	811019-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.76	6.11	4.62
S87C51FC1SF76	806104-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	7.99	6.29	4.76
S87C51FC24SF76	811081-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-MQFP	7.99	6.29	4.76
S87C51RA24	807154-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-MQFP	7.05	5.55	4.20
S87C51RB1	807279-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.99	6.29	4.76
S87C51RB24	807314-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.99	6.29	4.76
S87C51RC1	800221-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	8.93	7.03	5.32
S87C51RC24	800375-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-MQFP	8.93	7.03	5.32
TS87C51FA24SF76	810982-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-MQFP	8.11	6.49	4.28
TS87C51FB1SF76	812058-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-MQFP	7.40	5.83	4.41
TS87C51RA1	807033-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-MQFP	7.40	5.83	4.41
TS87C51RA24	807166-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-MQFP	7.40	5.83	4.41
TS87C51RB1	807285-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-MQFP	8.34	6.57	4.97
TS87C51RC24	800417-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-MQFP	9.28	7.31	5.53
S87C521SF76	810770-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-MQFP	5.78	4.62	3.05
EN87C521SF76	864926-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature*	44-PLCC	9.00	7.20	4.50
TN87C5224SF76	819853-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	6.19	4.95	3.27
AN87C54F8	821116-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Automotive	44-PLCC	14.52	11.44	8.66
N87C5424SF76	810720-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.70	6.16	4.06
N87C5433SF76	810721-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.24	5.70	4.32
S87C541SF76	810369-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.70	6.16	4.06
S87C5424SF76	810712-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.70	6.16	4.06
N87C581SF76	810724-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-PLCC	6.11	4.81	3.64
N87C5833SF76	810725-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	44-PLCC	6.72	5.30	4.01
P87C581SF76	823402-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	40-Dip	6.11	4.81	3.64
P87C5820SF76	810728-ND	5V, 20MHz, 8-Bit, 32K OTP MCU	40-Dip	6.11	4.81	3.64
P87C5833SF76	810729-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	40-Dip	6.72	5.30	4.01
S87C581SF76	810734-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	6.11	4.81	3.64

MCS® 96 MICROCONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
N80C196MD	804212-ND	5V, 16MHz, 16-Bit Industrial Motor Control MCU	84-PLCC	17.16	13.51	10.22
S80C196KC20	804117-ND	5V, 20MHz, 16-Bit High Speed In/Out MCU	80-MQFP	14.34	11.29	8.54
S80C196NU40	804302-ND	5V, 40MHz, 16-Bit Event Processor Array MCU	100-QFP	18.80	14.80	11.20
SB80C196NP	804243-ND	5V, 25MHz, 16-Bit Event Processor Array MCU	100-SQFP	17.63	13.88	10.50
SB80C196NP25	804256-ND	5V, 25MHz, 16-Bit Event Processor Array MCU	100-SQFP	17.63	13.88	10.50
SB80C196NU40	804308-ND	5V, 40MHz, 16-Bit Event Processor Array MCU	100-SQFP	18.80	14.80	11.20
AN87C196JRF8	821035-ND	5V, 16MHz, 16-Bit, 16K OTP MCU, Automotive	52-PLCC	19.98	15.73	11.90
AN87C196JTWB20	828470-ND	5V, 20MHz, 16-Bit, 32K OTP MCU, Automotive	52-PLCC	21.15	16.65	12.60
AN87C196JV20F8	821068-ND	5V, 20MHz, 16-Bit, 48K OTP MCU, Automotive	52-PLCC	25.20	19.92	16.20
AN87C196LA20F8	821030-ND	5V, 20MHz, 16-Bit, 24K OTP MCU, Automotive	52-PLCC	33.62	26.58	21.62
S87C196KD	802861-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	80-MQFP	25.31	20.01	16.27
U87C196MC	803558-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	64-SDip	18.90	14.94	12.15

MCS® 251 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
P80C251TQ24	816704-ND	5V, 24MHz, 8-Bit MCU, 512K Register RAM	40-Dip	7.70	6.16	4.06
TP80C251TQ24	816718-ND	5V, 24MHz, 8-Bit MCU, 512K Register RAM, Ext. Temp.	40-Dip	8.11	6.49	4.28
P87C251SQ16	804066-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	40-Dip	8.72	6.87	5.20
TP87C251SP16	804036-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	40-Dip	8.41	6.63	5.02
TP87C251SQ16	804103-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	40-Dip	9.07	7.15	5.41

i960 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
A80960CA16	802846-ND	16MHz, i960CA, 32-Bit MPU with DMA, 1K Cache*	168-PGA	64.85	51.20	44.37
A80960CF25	803021-ND	25MHz, i960CF, 32-Bit MPU with DMA, 4K Cache*	168-PGA	86.60	68.37	59.26
A80960CF33	803084-ND	33MHz, i960CF, 32-Bit MPU with DMA, 4K Cache*	168-PGA	89.78	78.90	69.38
A80960CF40	803133-ND	40MHz, i960CF, 32-Bit MPU with DMA, 4K Cache*	168-PGA	111.47	97.97	86.14
A80960HA33SL2GY	813629-ND	33MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	87.06	68.73	59.57
A80960HD50SL2GH	815231-ND	50MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	168-CPGA	85.19	74.87	65.83
A80960HT75SL2GP	814114-ND	75MHz, i960HT, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	103.08	90.59	78.09
A80960JA3V25	819528-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-PGA	48.09	37.97	32.91
A80960JA3V33	819529-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache*	132-PGA	57.00	45.00	39.00
A80960JD3V33	819533-ND	33MHz, i960JD, 32-Bit MPU, 16MHz Bus, 3.3V, 4K Cache*	132-PGA	66.50	52.50	45.50
A80960JD3V50	819536-ND	50MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	74.18	58.56	50.76
A80960JD3V66	819538-ND	66MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache*	132-QFP	83.60	66.00	57.20
A80960JF3V25	819540-ND	25MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache*	132-PGA	66.50	52.50	45.50
A80960KA16	803435-ND	16MHz, i960KA, 32-Bit MPU, 512 Byte Cache*	132-PGA	48.30	38.18	31.05
A80960KB16	803496-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-PGA	42.69	33.75	27.45
A80960KB20	803516-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache*	132-PGA	53.97	42.67	34.70
FC80960HA25SL2GU	813626-ND	25MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	65.74	51.90	44.98
FC80960HA33SL2GV	813627-ND	33MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	73.66	58.16	50.41
FC80960HA40SL2GW	813625-ND	40MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	77.12	60.89	52.77
FC80960HD32SL2GL	815243-ND	32MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	78.36	61.86	53.62
FC80960HD50SL2GM	815241-ND	50MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	83.89	66.23	57.40
UG80960HD66SL2GN	864025-ND	66MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache*	208-SQFP	84.86	74.58	65.58
FC80960HT75SL2GT	815234-ND	75MHz, i960HT, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	89.45	78.61	69.12
GD80960JA25	820061-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	196-BGA	28.41	22.46	18.27
GD80960JA33	820063-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	196-BGA	35.47	28.04	22.81
GD80960JF33	819771-ND	33MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	196-BGA	44.75	35.38	28.77
KU80960CA16	802858-ND	16MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	196-QFP	71.69	56.68	46.09
KU80960CF25	803044-ND	25MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	196-QFP	70.78	55.88	48.43
KU80960CF33	803114-ND	33MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	196-QFP	85.37	67.40	58.41
N80960SA10	803819-ND	10MHz, i960SA, 32-Bit MPU, 512 Byte Cache	84-PLCC	19.98	15.73	11.90
N80960SA16	803825-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache	84-PLCC	21.15	16.72	13.60
N80960SA20	803859CT-ND	20MHz, i960SA, 32-Bit MPU, 5V	84-PLCC	22.74	17.98	14.63
NG80960JA3V25	819545-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-QFP	28.41	22.46	18.27
NG80960JA3V33	819546-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-QFP	35.47	28.04	22.81
NG80960JC33	820340-ND	33MHz, i960JC, 32-Bit MPU, 16MHz Bus, 16K Cache	132-PQFP	55.23	43.66	35.51
NG80960JC66	820343-ND	66MHz, i960JC, 32-Bit MPU, 33MHz Bus, 16K Cache	132-PQFP	32.30	25.50	22.10

***RoHS Compliant**

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i960 MICROPROCESSORS *(Continued)*

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
NG80960JC50	820342-ND	50MHz, i960JC, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	30.40	24.00	20.80
NG80960JD3V40	819550-ND	40MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	48.66	38.42	33.30
NG80960JD3V50	819551-ND	50MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	53.92	42.57	36.90
NG80960JD3V66	819553-ND	66MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	59.76	47.18	40.89
NG80960JF3V25	819556-ND	25MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	37.42	29.59	24.06
NG80960JS25	820348-ND	25MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	24.15	19.09	15.53
NG80960JS33	820349-ND	33MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	31.50	24.90	20.25
NG80960JT100	818018-ND	100MHz, i960JT, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	36.10	28.50	24.70
NG80960KA16	803445-ND	16MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-QFP	22.34	17.67	14.37
NG80960KA20	803464-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-QFP	26.12	20.65	16.80
NG80960KB16	803504-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	24.55	19.41	15.79
NG80960KB20	803523-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	27.43	21.68	17.64
NG80960KB25	803540-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	30.53	24.14	19.63
S80960SA16	803843-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache	80-MQFP	22.24	17.58	14.30
TA80960KA20	803470-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache, Extended Temp.*	132-PGA	46.18	36.51	29.69
TA80960KB16	803510-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	47.38	37.45	30.46
TA80960KB20	803529-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.*	132-PGA	50.17	39.66	32.26
TG80960JA3V25	819558-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache, Extended Temp.	132-QFP	30.85	24.39	19.84
TG80960JC66	826102-ND	66MHz, i960JC, 32-Bit MPU, 16K Cache	132-PQFP	36.10	28.50	24.70
TG80960JS25	824382-ND	25MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache, Extended Temp.	132-QFP	26.04	20.59	16.74
TG80960JS33	825153-ND	33MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache, Extended Temp.	132-QFP	33.60	26.56	21.60
TG80960KA20	803479-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-QFP	27.43	21.68	17.64
TN80960SA16	803846-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache, Extended Temp.	84-PLCC	24.95	19.73	16.04
TN80960SB16	803896-ND	16MHz, i960SB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	84-PLCC	27.92	21.98	16.64

CONTROLLERS (PCI / LAN / WAN / CAN)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
EP82562ET	863275-ND	Platform LAN Connect (PLC) Controller*	48-SSOP	9.65	7.73	5.09
FW82439HXSU115	807787CT-ND	82439HX System Controller (MHXC)	324-BGA	26.00	21.58	17.55
GD82550EYSL4MJ	830751-ND	Fast Ethernet Multifunction PCI/Cardbus Controller	196-BGA	33.43	26.43	21.50
GD82559ERSL3DG	825111-ND	Fast Ethernet Multifunction PCI/Cardbus Controller	196-BGA	18.31	14.42	10.91
GD82559SL3HD	822772-ND	Fast Ethernet Multifunction PCI/Cardbus Controller	196-BGA	35.72	28.24	22.97
KU82596CA25SZ716	806726-ND	25MHz, 5V, LAN Coprocessor	132-QFP	33.60	26.56	21.60
KU82596DX25SZ714	806807-ND	25MHz, 5V, LAN Coprocessor	132-QFP	39.90	31.54	25.65
KU82596DX33SZ715	806835-ND	33MHz, 5V, LAN Coprocessor	132-QFP	44.10	34.86	28.35
SCD223110QCD	832550-ND	2-Ch. Serial WAN Controller	100-MQFP	21.00	16.60	13.50
SCD240210QCM	832517-ND	Intelligent Multiprotocol WAN Communications Controller	160-QFP	21.15	16.65	12.60

ETHERNET CONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
DA82562EM	829707-ND	10/100 Ethernet Platform LAN Connect Bus Controller	48-SSOP	11.87	9.35	7.07
GD82550ELSL4MK	830748-ND	Fast Ethernet PCI/CardBus Controller	196-BGA	34.13	26.98	21.94
GD82550GMSL4ML	831172-ND	Ethernet PCI/CardBus Controller	196-BGA	34.13	26.98	21.94
GD82550GYSL4Y5	833858-ND	Fast Ethernet PCI/CardBus Controller	196-BGA	33.43	26.43	21.50
GD82550PMSL4Y7	834051-ND	Ethernet PCI/CardBus Controller	196-BGA	33.43	26.43	21.50
GD82559CSL3DF	825112-ND	10/100 PCI Bus MAC/PHY Ethernet Controller	196-BGA	35.72	28.24	22.97
GD82559ERSL3TU	826238-ND	10/100 PCI Bus MAC/PHY Ethernet Controller	196-BGA	18.31	14.42	10.91
JL82575EB	890991-ND	Dual Port MAC/PHY/SerDes/SGMII Ethernet Controller*	576-BGA	55.08	43.49	37.69
LU82541ER	862931-ND	Single Port Gigabit, MAC/PHY Ethernet Controller*	196-BGA	31.37	24.80	20.17
LU82541PI	860575-ND	Single Port Gigabit, MAC/PHY Ethernet Controller*	196-BGA	37.04	29.29	23.82
LU82551ERSL7G4	860614CT-ND	Ethernet PCI/CardBus Controller*	196-BGA	12.76	10.21	6.73
LU82551ERSL7G4	860614TR-ND	Ethernet PCI/CardBus Controller*	196-BGA		5245.35/850	
LU82562EZ	860581-ND	10/100 Integrated Ethernet Platform LAN Connect Device*	196-LBGA	8.96	7.17	4.48
RC82540EP	850006-ND	Single Port Gigabit, MAC/PHY Ethernet Controller*	196-BGA	62.34	49.22	42.66
S82562EH	829047-ND	10/100 Ethernet Platform LAN Connect Bus Controller	64-QFP	11.75	9.25	7.00
S82595FX	806680-ND	ISA/PCMCIA High Integration Ethernet Controller	160-MQFP	29.40	23.24	18.90
SB82558BSL2P4	816075-ND	32-Bit Fast Ethernet PCI Bus Controller with Integrated PHY	208-SQFP	35.70	28.22	22.95
TL82543GCSL4AC	829160-ND	10/100/100 PCI Bus MAC Gigabit Ethernet Controller	352-BGA	94.41	82.97	72.96

ETHERNET TRANSCEIVERS / RECEIVERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
DJLXT380LE.B4	832251-ND	3.3V, 8-Port Short-Haul E1 Transceiver	144-LQFP	43.89	34.70	28.22
FLLXT386BEB2834206	834206-ND	Quad T1/E1/J1 Short-Haul Xcvr.	160-BGA	39.69	31.38	25.52
FWLXT9781BCA9831679	831679-ND	8-Port Fast Ethernet Xcvr. (RMII)	272-BGA	21.84	17.27	14.04
FWLXT9782BCA9831681	831681-ND	8-Port Fast Ethernet Xcvr. (SMII)	272-BGA	21.84	17.27	14.04
FWLXT9782BC.C4	834115-ND	8-Port Fast Ethernet Xcvr. (SMII)	272-BGA	33.60	26.56	21.60
FWLXT9784BCA3834928	834928-ND	8-Port Fast Ethernet Transceiver (SMII, RMII)	324-BGA	73.50	58.10	47.25
FWLXT9784BE.A3	833561-ND	3.3V, 8-Port 10/100Mbps Transceiver (RMII, SMII)	324-BGA	73.50	58.10	47.25
HBLXT9761HCB2835066	835066-ND	6-Port Fast Ethernet Xcvr. (RMII)	208-HQFP	18.82	14.88	12.10
HBLXT9762HCB2835376	835376-ND	6-Port Fast Ethernet Xcvr. (SMII)	208-HQFP	18.82	14.88	12.10
HBLXT9763HCA9831634	831634-ND	6-Port Fast Ethernet Xcvr. (MII)	208-HQFP	18.82	14.88	12.10
N82503	806119-ND	Dual Serial Ethernet Transceiver (802.3 10BASE-T/AUI)	44-PLCC	11.75	9.25	7.00
NLXT307PE.F4	832110-ND	5V, E1 Short-Haul Xcvr.	28-PLCC	13.59	10.87	7.17
NLXT362PE.A3	832121-ND	1-Port Long-Haul T1 Serial Transceiver	28-PLCC	16.59	13.07	9.89
EELXT908PC.A4	871624-ND	3.3V, Universal 10BASE-T/AUI Transceiver*	44-PLCC	11.94	9.55	6.30
PDLXT305ANE.F4	832171-ND	5V, T1/E1 Short-Haul Xcvr.	28-Dip	16.45	12.95	9.80
S82503	806140-ND	Dual Serial Ethernet Transceiver (802.3, 10BASE-T/AUI)	44-MQFP	11.75	9.25	7.00
SLXT351QE.A2	832246-ND	1-Port Short-Haul T1/E1/J1 Parallel Transceiver	44-QFP	18.80	14.80	11.20
SLXT361QE.A2	832199-ND	1-Port Long-Haul T1/E1 Parallel Transceiver	44-QFP	22.33	17.58	13.30

ETHERNET REPEATERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
HBLXT9863HCB3834131	834131-ND	6-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	21.86	17.29	14.06
SLXT914QC.C4	831524-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, AUI)	100-QFP	14.36	11.31	8.56

TELECOM BROADBAND

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
FLIXF6151BEA2834984	834984-ND	28 T1/E1 Mapper	352-BGA	79.14	74.38	71.40
IXF6401BEC7A1835148	835148-ND	Broadband Access Processor	352-BGA	274.65	258.13	247.80

BRIDGE CONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
GD31244SL786	856145-ND	4-Port PCI-X SATA Controller Bridge	256-LPBGA	35.91	28.39	23.09
NQ41210SL7JE	860909-ND	Serial to Parallel, 64-Bit Transparent, PCI Express to PCI X Bridge, 133MHz	567-FCBGA	52.80	41.69	36.13

PCI-to-PCI BRIDGES

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
21050AB	821286-ND	PCI-to-PCI Bridge	208-QFP	30.35	23.99	19.51
EG21152BB SL7T7	865097-ND	32-Bit, 33MHz Transparent PCI-to-PCI Bridge*	160-QFP	18.99	14.95	11.32
FW21555ABSL6G8	848191-ND	64-Bit, 33MHz, PCI-to-PCI Bridge	304-BGA	49.65	39.20	33.97
PR21154BE SL7T9	865265-ND	64-Bit, 66MHz Transparent PCI-to-PCI Bridge*	304-BGA	51.28	40.54	32.97
FW21555BB	848192-ND	64-Bit, 66MHz Non-Transparent PCI-to-PCI Bridge	304-BGA	63.18	49.88	43.23
PR21555BB SL7UG	865267-ND	64-Bit, 66MHz Non-Transparent PCI-to-PCI Bridge*	304-BGA	63.18	49.88	43.23

INTERFACE ADAPTERS/CARDS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
DZPD6729VCE	832535-ND	PCI-to-PC Card Controller	208-LQFP	23.73	18.76	15.26
SPD6729QCC	832533-ND	PCI-to-PCMCIA Host Adapter	208-QFP	22.33	17.58	13.30
CNLA6000PK5	830447-ND	PRO/100 VE Desktop Adapter	—	178.95	168.19	161.46
MBLA3456C3	829957-ND	PRO/100 SR Combo Mobile Adapter	—	198.17	186.25	178.80
PILA8460C3	832696-ND	PRO/100 S Desktop Adapter	—	66.50	52.50	45.50
PILA8470C3	832702-ND	PRO/100 S Server Adapter	—	89.30	70.50	61.10

FLASH MEMORY

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
E28F008S5120	808704-ND	8Mb, 5V, FLASH Memory (1Mx8)*	40-TSOP	16.45	12.95	9.80
RC28F800C3BD70	867943-ND	8Mb, 3V, FLASH Memory (1Mx8)*	64-BGA	3.52	2.82	1.76
PC28F800C3BD70	870886-ND	8Mb, 3V, FLASH Memory (1Mx8)*	64-BGA	5.72	4.18	2.64
GT28F160B3BA90SB93	823475-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	3.13	2.47	1.87

RoHS Compliant

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FLASH MEMORY *(Continued)*

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
GT28F160C3BA110	819287-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	5.43	4.28	3.24
GT28F160C3BA90SB93	823477-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	9.35	7.37	5.58
GT28F160C3TA110	819293-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	5.43	4.28	3.24
GE28F160C3TD70	853978-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-BGA	5.00	4.00	2.50
RC28F160C3BA110	830116-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	4.49	3.54	2.68
PC28F160C3BD70	865397-ND	16Mb, 3V, FLASH Memory (1Mx16)*	64-BGA	4.00	3.20	2.00
PC28F160C3TD70	865400-ND	16Mb, 3V, FLASH Memory (1Mx16)*	64-BGA	4.28	3.43	2.14
RD28F1604C3BD70855156	855156-ND	16Mb, 3V, Stacked FLASH Memory with 4Mb SRAM	66-EBGA	7.78	6.23	4.11
RD28F1604C3TD70SB93	855158-ND	16Mb, 3V, Stacked FLASH Memory with 4Mb SRAM	66-EBGA	8.17	6.54	4.31
TE28F160B3BA90SB93	823471-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	6.11	4.81	3.64
JS28F160C3BD70	866264-ND	16Mb, 3V, FLASH Memory (1Mx16)*	48-TSOP	4.28	3.43	2.14
JS28F160C3TD70	866265-ND	16Mb, 3V, FLASH Memory (1Mx16)*	48-TSOP	4.00	3.20	2.00
GE28F320C3BC70SB93	831113-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	6.03	4.77	3.88
GE28F320C3BC90	830946-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	6.03	4.77	3.88
GT28F320B3BA100	823191-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320B3BA100SB93	823193-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	22.72	17.89	13.54
GT28F320B3TA100	823197-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320B3TA100SB93	823211-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	18.27	14.45	11.75
GT28F320B3TA110	820972-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320C3BA100SB93	823207-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320C3BA110	820975-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	16.36	12.94	10.52
GT28F320C3TA100SB93	823213-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320C3TA110	820978-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
RC28F320C3BA110	828110-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	8.09	6.40	5.20
PC28F320C3BD70	865363-ND	32Mb, 3V, FLASH Memory (2Mx16)*	64-BGA	5.72	4.58	2.86
RC28F320C3TA110	828112-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	8.09	6.40	5.20
RC28F320C3TD70	851145-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	5.72	4.58	2.86
RD38F1020C0ZBL0SB93	849856-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	11.23	8.85	6.70
RD38F1020C0ZTL0SB93	849853-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	11.23	8.85	6.70
RD38F1020W0YTQ0SB93	858995-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	10.15	8.12	5.36
TE28F320C3BA100	823220-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	8.82	6.98	5.67
TE28F320C3BA110	820967-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	8.82	6.98	5.67
JS28F320C3BD70	864836-ND	32Mb, 3V, FLASH Memory (2Mx16)*	48-TSOP	5.72	4.58	2.86
JS28F320C3TD70	864838-ND	32Mb, 3V, FLASH Memory (2Mx16)*	48-TSOP	5.72	4.58	2.86
E28F640J3A120SL4AX	829867-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	56-TSOP	24.36	19.26	15.66
JS28F640P30B85	873892-ND	64Mb, 1.8V, StrataFlash® Embedded Memory*	56-TSOP	5.97	4.78	3.15
PC28F640P30B85	873919-ND	64Mb, 1.8V, StrataFlash® Embedded Memory*	64-EBGA	5.97	4.78	3.15
PC28F640P30T85	873913-ND	64Mb, 1.8V, StrataFlash® Embedded Memory*	64-EBGA	5.97	4.78	3.15
JS28F128P30B85	873810-ND	128Mb, 1.8V StrataFlash® Embedded Memory*	56-TSOP	10.51	8.41	5.54
PC28F128P30B85	873877-ND	128Mb, 1.8V StrataFlash® Embedded Memory*	64-EBGA	10.51	8.41	5.54
PC28F128P30T85	873880-ND	128Mb, 1.8V StrataFlash® Embedded Memory*	64-EBGA	10.51	8.41	5.54
JS28F256P30B95	877823-ND	256Mb, 1.8V StrataFlash® Embedded Memory*	56-TSOP	12.15	9.57	7.24
JS28F256P30T95	877825-ND	256Mb, 1.8V StrataFlash® Embedded Memory*	56-TSOP	15.11	11.90	9.01
PC28F256P30B85	873888-ND	256Mb, 1.8V StrataFlash® Embedded Memory*	64-EBGA	12.85	10.12	7.66
SSDUSMS0001GL	890288-ND	1GB, USB SSD Module 2x5 Low Profile, 5V*	—	31.71	25.07	20.39
SSDUSMS0002GL	890289-ND	2GB, USB SSD Module 2x5 Low Profile, 5V*	—	52.82	41.70	36.14
SSDUSMS0004GL	890287-ND	4GB, USB SSD Module 2x5 Low Profile, 5V*	—	94.22	82.80	72.81

DEMODULATION AND CODING PRODUCT

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
N2105CM	828541-ND	Digital CMOS QPSK Cable Demod.	68-PLCC	23.10	18.26	14.85

PERIPHERAL INTERFACE PRODUCTS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
GCIXB3208AA	831425-ND	8-Port, 32-Bit, IX Bus Peripheral Controller	352-BGA	106.92	93.96	82.62
EE87C42	863950-ND	8-Bit, Universal Peripheral Interface Slave Microcontroller*	44-PLCC	16.45	12.95	9.80

MODEM CHIPSETS, CONTROLLERS, DSPs, AFEs

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
MD5660AMS101	830882-ND	ISA/Serial Modem Chipset (MD4450CSCB, MD5660DTMA, MD1724T11VCB)	—	16.45	12.95	9.80
MD5661AMV101	830883-ND	PCMCIA Modem Chipset (MD4451CVCB, MD5661DTLA, MD1724T11VCB)	—	14.70	11.62	9.45
MD5662AMS101	830884-ND	ISA/Serial Modem Chipset (MD4450CSCB, MD5660DTMA, (MD1724T11VCB, 2pcs)	—	21.63	17.10	13.91
MD5675TS101	830885-ND	USB Modem Chipset (MD4470CSCB, MD5660DTMA, MD1724T11VCB)	—	18.90	14.94	12.15
DQMD4451CVCB	830839-ND	5V, 4451CV Controller	128-LQFP	7.05	5.55	4.20
FYMD4450CSCB	830837-ND	5V, 4450CS Controller	128-SQFP	7.05	5.55	4.20
FYMD4450CVCB	830890-ND	5V, 4450CV Controller	128-SQFP	16.59	13.07	9.89
FYMD4470CSCB	830849-ND	5V, 4470CS Controller	128-SQFP	16.17	12.73	9.64
DJMD5628DLB	830836-ND	3.3V, 5628 Digital Signal Proc.	100-LQFP	8.23	6.48	4.90
DQMD5661DTLA	830848-ND	3.3V, 5661 Digital Signal Proc.	128-LQFP	7.05	5.55	4.20
FYMD5660DTMA	830842-ND	3.3V, 5660 Digital Signal Proc.	128-SQFP	7.05	5.55	4.20
FYMD8820	830850-ND	3.3V, 8820 Digital Signal Proc.	128-SQFP	47.77	37.71	32.69
DYMD1724T11VCB	830851-ND	5V, Sigma-Delta Analog Front End	44-LQFP	4.00	3.20	1.90

XSCALE™ STORAGE PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
FW80219M400SL7CL	858184-ND	32-Bit, GP, High Perf. PCI Processor with Xscale™ Microarchitecture with 64-Bit PCI-X Interface, 400MHz	544-BGA	54.21	42.80	37.09
FW80219M600SL7CM	858207-ND	32-Bit, GP, High Perf. PCI Processor with Xscale™ Microarchitecture with 64-Bit PCI-X Interface, 600MHz	544-BGA	61.75	48.75	42.25
FW80321M600SL6R3	850667-ND	32-Bit, High Perf. PCI Processor with Xscale™ Microarchitecture with 64-Bit PCI-X Interface, 600MHz	544-BGA	135.94	119.47	105.05

XSCALE™ NETWORK PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
FWIXP421BB	852277-ND	266MHz Network Processor with Xscale™ Core, 2 HSS Serial Ports	492-BGA	30.22	23.89	19.43
FWIXP425BB	852264-ND	266MHz, 2 HSS Ports, Crypto Processor Support, 2 Integrated 10/100 Ethernet MAC, Utupia 2 Interface	492-BGA	36.20	28.62	23.28
PRIXP425BB	869046-ND	266MHz, 2 HSS Ports, Crypto Processor Support, 2 Integrated 10/100 Ethernet MAC, Utupia 2 Interface*	492-BGA	31.90	25.22	20.51
FWIXP425BD	852279-ND	533MHz, 2 HSS Ports, Crypto Processor Support, 2 Integrated 10/100 Ethernet MAC, Utupia 2 Interface	492-BGA	62.91	49.67	43.05

INTEGRATED CIRCUITS

LED Ballasts — RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each ★		
			1	25	100
BCR401RE6327INCT-ND	18V, 60mA LED Driver	SOT-143	.55	.35	.29
BCR401RE6327INTR-ND	18V, 60mA LED Driver	SOT-143		378.24/3,000	
BCR401WE6327INCT-ND	18V, 60mA LED Driver ***NEW!***	SOT-343	.52	.36	.31
BCR401WE6327INTR-ND	18V, 60mA LED Driver ***NEW!***	SOT-343		418.95/3,000	
BCR402RE6327INCT-ND	18V, 60mA LED Driver	SOT-143	.55	.35	.29
BCR402RE6327INTR-ND	18V, 60mA LED Driver	SOT-143		378.24/3,000	
BCR402UE6327INCT-ND	40V, 65mA LED Driver	SC74	.60	.41	.36
BCR402UE6327INTR-ND	40V, 65mA LED Driver	SC74		483.75/3,000	
BCR402WE6327INCT-ND	18V, 60mA LED Driver ***NEW!***	SOT-343	.52	.36	.31
BCR402WE6327INTR-ND	18V, 60mA LED Driver ***NEW!***	SOT-343		418.95/3,000	
BCR405UE6327XTINCT-ND	40V, 65mA LED Driver	SC74	.60	.41	.36
BCR405UE6327XTINTR-ND	40V, 65mA LED Driver	SC74		483.75/3,000	
BCR450INCT-ND	40V, .1A LED Driver ***NEW!***	SC74	.83	.58	.50
BCR450INTR-ND	40V, .1A LED Driver ***NEW!***	SC74		776.58/3,000	
TLE4242GINCT-ND	42V, 500mA Adj. LED Driver	TO-263-7	4.00	3.18	2.77
TLE4242GINTR-ND	42V, 500mA Adj. LED Driver	TO-263-7		1383.62/1,000	

Power Management

Digi-Key Part No.	Description	Pkg.	Price Each ★		
			1	25	100
ADM6996LX-AA-T-1IN-ND	High Performance, 6-Port, 10/100Mbps TX/FX Switch	128-QFP	7.43	6.19	5.20
BSP76E6327NTINCT-ND	Smart Lowside Power Switch*	SOT-223	1.28	.99	.87
BSP76E6327NTINTR-ND	Smart Lowside Power Switch*	SOT-223		446.85/1,000	
BSP78E6327INCT-ND	Smart Lowside Power Switch*	SOT-223-4	2.17	1.66	1.45
BSP78E6327INTR-ND	Smart Lowside Power Switch*	SOT-223-4		709.64/1,000	
BSP742TINCT-ND	Smart Power Highside Switch	DSO-8	2.27	1.73	1.52
BSP742TINTR-ND	Smart Power Highside Switch	DSO-8		1753.05/2,500	
BSP752RTINCT-ND	Smart Power Highside Switch	DSO-8	2.82	2.15	1.88
BSP752RTINTR-ND	Smart Power Highside Switch	DSO-8		2180.75/2,500	
BSP762TINCT-ND	Smart Power Highside Switch*	DSO-8	3.16	2.41	2.11
BSP762TINTR-ND	Smart Power Highside Switch*	DSO-8		2447.25/2,500	
BSP772TINCT-ND	Smart Power Highside Switch*	DSO-8	3.61	2.76	2.41
BSP772TINTR-ND	Smart Power Highside Switch*	DSO-8		2794.35/2,500	
BTS117IN-ND	Smart Power Lowside Switch	P-TO-220-3-1	2.52	2.21	1.89
BTS133IN-ND	Smart Power Lowside Switch*	P-TO-220-3-1	3.19	2.66	2.24
BTS133E3045AINCT-ND	Smart Power Lowside Switch*	SMD TO-220	4.15	3.30	2.88
BTS133E3045AINTR-ND	Smart Power Lowside Switch*	SMD TO-220		1435.32/1,000	
BTS141E3045AINCT-ND	Smart Power Lowside Switch*	TO-220	6.10	4.85	4.23
BTS141E3045AINTR-ND	Smart Power Lowside Switch*	TO-220		2111.27/1,000	
BTS141IN-ND	Smart Power Lowside Switch	P-TO-220-3-1	4.69	3.91	3.29
BTS282ZE3180ATINCT-ND	Enhancement Mode N-Ch. Speed TEMPFET®*	P-TO-220-7-3	6.39	5.09	4.43
BTS282ZE3180AINCT-ND	Enhancement Mode N-Ch. Speed TEMPFET®	P-TO-220-7-3	5.86	4.66	4.06
BTS308E3062AINCT-ND	Smart Power Highside Switch*	TO-220AB/5	4.02	3.20	2.79
BTS409L1E3062AINCT-ND	Smart Power Highside Switch*	TO-220AB/5	3.66	2.80	2.45
BTS409L1E3062AINTR-ND	Smart Power Highside Switch*	TO-220AB/5		1199.28/1,000	
BTS410E2IN-ND	Smart Power Highside Switch*	TO-220AB/5	3.89	3.24	2.72
BTS410F2IN-ND	Smart Power Highside Switch*	TO-220AB/5	3.89	3.24	2.72
BTS410F2E3062INCT-ND	Smart Power Highside Switch	D2-PAK	5.05	4.02	3.50
BTS410F2E3062INTR-ND	Smart Power Highside Switch	D2-PAK		1748.39/1,000	
BTS428L2INCT-ND	1-Ch., 60m-Ohm, Smart Power Highside Switch	TO-252-5-1	3.92	2.99	2.62

** RoHS Compliant*

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Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
BTS428L2INTR-ND	1-Ch., 60m-Ohm, Smart Power Highside Switch	TO-252-5-1	3032.25/2,500		
BTS432E2E3043IN-ND	Smart Power Highside Switch*	TO-220AB/5	5.44	4.54	3.81
BTS432E2IN-ND	Smart Power Highside Switch	TO-220AB/5	5.44	4.54	3.81
BTS442E2IN-ND	Smart Power Highside Switch*	TO-220AB/5	7.36	6.13	5.15
BTS452RINCT-ND	Smart Power Highside Switch*	TO-252-5	2.86	2.18	1.91
BTS452RINTR-ND	Smart Power Highside Switch*	TO-252-5	2209.68/2,500		
BTS462TINCT-ND	Smart Power Highside Switch*	TO-252-5	2.80	2.14	1.87
BTS462TINTR-ND	Smart Power Highside Switch*	TO-252-5	2169.38/2,500		
BTS555E3146IN-ND	Smart Highside High Current Power Switch, Straight Lead*	TO-218AB/5	10.26	9.12	7.22
BTS611L1E3128AINCT-ND	Smart Power Highside Switch 2-Channel: 2 x 200mΩ*	SMD TO-220AB/7	4.24	3.37	2.94
BTS611L1E3128AINTR-ND	Smart Power Highside Switch 2-Channel: 2 x 200mΩ*	SMD TO-220AB/7	1465.97/1,000		
BTS611L1IN-ND	2-Channel Smart Power Highside Switch*	TO-220AB/7	3.32	2.78	2.33
BTS621L1E3128AINCT-ND	Smart Power Highside Switch 2-Channel: 2 x 100mΩ*	SMD TO-220AB/7	5.76	4.58	3.99
BTS621L1E3128AINTR-ND	Smart Power Highside Switch 2-Channel: 2 x 100mΩ*	SMD TO-220AB/7	1992.20/1,000		
BTS621L1IN-ND	2-Channel Smart Power Highside Switch	TO-220AB/7	4.52	3.77	3.17
BTS650PE3180AINCT-ND	Smart Highside High Current Power Switch*	SMD TO-220-7	8.93	7.10	6.19
BTS650PE3180AINTR-ND	Smart Highside High Current Power Switch*	SMD TO-220-7	3090.83/1,000		
BTS650PIN-ND	Smart Power Highside High Current Switch*	TO-220AB/7	6.87	5.73	4.81
BTS660PIN-ND	Smart Power Highside High Current Switch	TO-220-7-3	6.80	6.05	4.79
BTS711L1XTINCT-ND	4-Channel Highside Switch*	DS020-9	6.87	5.46	4.76
BTS711L1XTINTR-ND	4-Channel Highside Switch*	DS020-9	2377.35/1,000		
BTS840S2INCT-ND	Smart Power Highside Switch 2-Channel: 2 x 30mΩ*	DSO-20	9.06	7.77	6.48
BTS840S2INTR-ND	Smart Power Highside Switch 2-Channel: 2 x 30mΩ*	DSO-20	2847.90/800		
BTS4140NINCT-ND	Smart Highside Power Switch*	SOT-223-4	1.80	1.39	1.22
BTS4140NINTR-ND	Smart Highside Power Switch*	SOT-223-4	627.45/1,000		
BTS4141NINCT-ND	Smart Power Highside Switch 1-Ch.: 1 x 200mΩ*	SOT-223-4	2.32	1.78	1.55
BTS4141NINTR-ND	Smart Power Highside Switch 1-Ch.: 1 x 200mΩ*	SOT-223-4	760.93/1,000		
BTS5210GINCT-ND	Smart Power Highside Switch 2-Ch.: 2 x 140mΩ*	DSO-14	3.25	2.48	2.17
BTS5210GINTR-ND	Smart Power Highside Switch 2-Ch.: 2 x 140mΩ*	DSO-14	2516.48/2,500		
BTS5215LINCT-ND	Smart Power Highside Switch 2-Channel: 2 x 90mΩ*	DSO-12	4.64	3.70	3.22
BTS5215LINTR-ND	Smart Power Highside Switch 2-Channel: 2 x 90mΩ*	DSO-12	1607.72/1,000		
BTS5240LINCT-ND	Smart Power Highside Switch 2-Channel: 2 x 25mΩ*	DSO-12	6.39	5.09	4.43
BTS5240LINTR-ND	Smart Power Highside Switch 2-Channel: 2 x 25mΩ*	DSO-12	2213.19/1,000		
BTS6144BINCT-ND	Smart Power Highside Switch 1-Channnel: 1 x 9mΩ*	SMD TO-220-7	6.86	5.46	4.75
BTS6144BINTR-ND	Smart Power Highside Switch 1-Channnel: 1 x 9mΩ*	SMD TO-220-7	2374.65/1,000		
BTS7930BINCT-ND	High Current P/N-Channel NovalithIC™ Half Bridge Motor Driver*	TO-263-7	10.41	8.93	7.44
BTS7930BINTR-ND	High Current P/N-Channel NovalithIC™ Half Bridge Motor Driver*	TO-263-7	3957.68/1,000		
BTS7960BINCT-ND	High Current P/N-Channel NovalithIC™ Half Bridge Motor Driver*	TO-263-7	12.73	10.92	9.10
BTS7960BINTR-ND	High Current P/N-Channel NovalithIC™ Half Bridge Motor Driver*	TO-263-7	4837.61/1,000		
IFX1117GSVINCT-ND	3.3V, Low Dropout Voltage Regulator*	SOT-223	1.43	1.11	.97
IFX1117GSVINTR-ND	3.3V, Low Dropout Voltage Regulator*	SOT-223	1800.90/4,000		
TCA505BGGEGINCT-ND	Switch for Inductance Proxi*	16-DSO	5.67	4.51	3.93
TCA505BGGEGINTR-ND	Switch for Inductance Proxi*	16-DSO	4655.04/2,500		
TCA3727IN-ND	2-Phase Stepper Motor Driver*	20-Dip	9.12	8.11	6.43
TLE4207GINCT-ND	1A Dual Half Bridge Driver*	DSO-14	3.65	2.79	2.44
TLE4207GINTR-ND	1A Dual Half Bridge Driver*	DSO-14	2825.55/2,500		
TLE4251DINCT-ND	Low Drop Voltage Tracker*	TO-252-5	3.90	2.97	2.60
TLE4251DINTR-ND	Low Drop Voltage Tracker*	TO-252-5	3015.35/2,500		
TLE4267GINCT-ND	5V LDO Voltage Regulator*	TO-263-7	4.73	3.76	3.28
TLE4267GINTR-ND	5V LDO Voltage Regulator*	TO-263-7	1637.28/1,000		
TLE4267SIN-ND	5V, Low-Drop Voltage Regulator*	P-TO-220-7	3.52	2.94	2.47
TLE4270GXTINCT-ND	5V, Low-Drop Fixed Voltage Regulator*	P-TO-263-5	4.43	3.53	3.07
TLE4270GXTINTR-ND	5V, Low-Drop Fixed Voltage Regulator*	P-TO-263-5	1533.06/1,000		
TLE4271-2GXTINCT-ND	5V, Low-Drop Fixed Voltage Regulator*	P-TO-263-7-1	4.86	3.87	3.37
TLE4271-2GXTINTR-ND	5V, Low-Drop Fixed Voltage Regulator*	P-TO-263-7-1	1682.10/1,000		
TLE4274V50IN-ND	Low-Drop Voltage Regulator	P-TO-220-3-1	2.12	1.86	1.59
TLE4275GINCT-ND	5V LDO Fixed Voltage Regulator*	TO-263-5	4.12	3.28	2.86
TLE4275GINTR-ND	5V LDO Fixed Voltage Regulator*	TO-263-5	1426.95/1,000		
TLE4278GINCT-ND	5V LDO Fixed Voltage Regulator*	DSO-14	3.90	2.97	2.60
TLE4278GINTR-ND	5V LDO Fixed Voltage Regulator*	DSO-14	3015.35/2,500		
TLE4299GMINCT-ND	5V LDO Fixed Voltage Regulator*	DSO-14	3.54	2.70	2.37
TLE4299GMINTR-ND	5V LDO Fixed Voltage Regulator*	DSO-14	2739.43/2,500		
TLE5205-2IN-ND	5A Dual Half Bridge Driver for DC Motor Applications*	TO-220-7	7.52	6.69	5.30
TLE5205-2GINCT-ND	5A Dual Half Bridge Driver for DC Motor Applications*	TO-263-7	9.75	8.36	6.97
TLE5205-2GINTR-ND	5A Dual Half Bridge Driver for DC Motor Applications*	TO-263-7	3704.85/1,000		
TLE5206-2IN-ND	5A Dual Half Bridge Driver for DC Motor Applications*	TO-220-7	7.52	6.69	5.30
TLE6208-6GINCT-ND	Hex Half Bridge/Double Six-Driver for DC Motor Applications*	DSO-28-6	9.58	8.21	6.85
TLE6208-6GINTR-ND	Hex Half Bridge/Double Six-Driver for DC Motor Applications*	DSO-28-6	3639.55/1,000		
TLE6220GPINCT-ND	Smart Quad Lowside Switch*	DSO-20	8.23	6.54	5.70
TLE6220GPINTR-ND	Smart Quad Lowside Switch*	DSO-20	2362.64/800		
TLE6225GINCT-ND	Smart Quad Lowside Switch*	DSO-20	4.42	3.52	3.06
TLE6225GINTR-ND	Smart Quad Lowside Switch*	DSO-20	1528.88/1,000		

Sensors

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
KT230INCT-ND	Silicon Temperature Sensor	SOT-23	.70	.53	.47
KTY135INCT-ND	Silicon Temperature Sensor*	SOT-23	.95	.72	.64
KTY135INTR-ND	Silicon Temperature Sensor*	SOT-23	652.68/3,000		
KTY136INCT-ND	Silicon Temperature Sensor*	SOT-23	.70	.53	.47
TLE4905GINCT-ND	Unipolar Hall IC Switch for Magnetic Field Applications	SOT-89	1.30	1.01	.88
TLE4905GINTR-ND	Unipolar Hall IC Switch for Magnetic Field Applications	SOT-89	454.65/1,000		
TLE4905LE6433INCT-ND	Unipolar Hall IC Switch for Magnetic Field Applications*	SSO-3-2	1.30	1.00	.88
TLE4905LE6433INTB-ND	Unipolar Hall IC Switch for Magnetic Field Applications*	SSO-3-2	3141.84/8,000		
TLE4906LINCT-ND	High Precision Hall-Effect Switch*	PG-SSO-3-2	1.30	1.00	.88
TLE4906LINTB-ND	High Precision Hall-Effect Switch*	PG-SSO-3-2	814.05/2,000		
TLE4913INCT-ND	Low Power Hall Switch*	SC-59-3-1	.92	.70	.62
TLE4913INTR-ND	Low Power Hall Switch*	SC-59-3-1	854.28/3,000		
TLE4921-5UINCT-ND	Dynamic Differential Hall-Effect Sensor*	SSO-4-1	5.69	4.52	3.94
TLE4921-5UINTB-ND	Dynamic Differential Hall-Effect Sensor*	SSO-4-1	3732.22/2,000		
TLE4925INCT-ND	Dynamic Differential Hall-Effect Sensor*	SSO-3-6	6.03	4.80	4.18
TLE4935GINCT-ND	Hall IC Switch for Magnetic Field Applications*	SOT-89	1.29	1.00	.88
TLE4935GXTINCT-ND	Hall IC Switch for Magnetic Field Applications*	SOT-89	1.29	1.00	.88
TLE4935GXTINTR-ND	Hall IC Switch for Magnetic Field Applications*	SOT-89	450.30/1,000		
TLE4942-1CINCT-ND	Differential 2-Wire Hall-Effect Sensor*	SSO-2-2	6.07	4.83	4.21
TLE4942-1CINTB-ND	Differential 2-Wire Hall-Effect Sensor*	SSO-2-2	3152.12/1,500		
TLE4945LINCT-ND	Bipolar Hall IC Switch for Magnetic Field Applications*	SSO-3-2	1.37	1.06	.93
TLE4945LINTB-ND	Bipolar Hall IC Switch for Magnetic Field Applications*	SSO-3-2	862.92/2,000		
TLE4945-2GINCT-ND	Bipolar Hall IC Switch for Magnetic Field Applications*	SOT-89	1.30	1.01	.88
TLE4945-2GINTR-ND	Bipolar Hall IC Switch for Magnetic Field Applications*	SOT-89	454.65/1,000		
TLE4945-2LINCT-ND	Bipolar Hall IC Switch for Magnetic Field Applications	P-SSO-3-2	1.37	1.06	.93
TLE4945-2LINTB-ND	Bipolar Hall IC Switch for Magnetic Field Applications	P-SSO-3-2	889.38/2,000		
TLE4990INCT-ND	Programmable Linear Ratiometric Hall IC	PG-SSO-4-1	4.87	3.88	3.38
TLE4990INTB-ND	Programmable Linear Ratiometric Hall IC	PG-SSO-4-1	12487.00/8,000		

Specialized Integrated Circuits

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
BCR400WE6327INCT-ND	Active Bias Controller*	SOT-343	.45	.26	.21
BCR400WE6327INTR-ND	Active Bias Controller*	SOT-343	254.88/3,000		
BGA420E6327INCT-ND	6V, 15mA Si-MMIC Amp*	SOT-343	1.09	.83	.73
BGA428E6327INCT-ND	High Gain Low Noise Amp*	SOT-363	2.10	1.60	1.40
BGA428E6327INTR-ND	High Gain Low Noise Amp*	SOT-363	1950.00/3,000		
BGA612E6327INCT-ND	Silicon Germanium Broadband MMIC Amp*	SOT-343	1.92	1.48	1.30
BGA612E6327INTR-ND	Silicon Germanium Broadband MMIC Amp*	SOT-343	1807.52/3,000		
BGA614E6327INCT-ND	Silicon Germanium Broadband MMIC Amp*	SOT-343	1.97	1.52	1.33
BGA614E6327INTR-ND	Silicon Germanium Broadband MMIC Amp*	SOT-343	1857.33/3,000		
BGA615L7E6327INCT-ND	Silicon Germanium GPS Low Noise Amp*	TSLP-7	1.31	1.01	.89
BGA615L7E6327INTR-ND	Silicon Germanium GPS Low Noise Amp*	TSLP-7	2978.63/7,500		
BGA616E6327INCT-ND	Silicon Germanium Broadband MMIC Amp*	SOT-343	1.77	1.37	1.20
BGA616E6327INTR-ND	Silicon Germanium Broadband MMIC Amp*	SOT-343	1671.44/3,000		
BGA622L7E6327INCT-ND	Wide Band Low Noise Amp*	TSLP-7	2.06	1.58	1.39
BGA622L7E6327INTR-ND	Wide Band Low Noise Amp*	TSLP-7	4661.48/7,500		
ICE2A0565IN-ND	Off-Line SMPS Current Mode Controller*	P-Dip-8-6	1.27	1.02	.85
ICE2A165IN-ND	Off-Line SMPS Current Mode Controller	Dip-8-6	1.71	1.37	1.14
ICE2A180ZIN-ND	Off-Line SMPS Current Mode Controller	P-Dip-7-1	1.78	1.56	1.34
ICE2A265IN-ND	Off-Line SMPS Current Mode Controller*	Dip-8-6	1.73	1.52	1.30
ICE2A280ZIN-ND	Off-Line SMPS Current Mode Controller*	P-Dip-7-1	2.90	2.54	2.18
ICE2A365IN-ND	Off-Line SMPS Current Mode Controller*	Dip-8-6	2.68	2.35	2.01
ICE2A765PIN-ND	Off-Line SMPS Current Mode Controller*	TO-220-6-3	3.97	3.31	2.78
ICE2B265IN-ND	Off-Line SMPS Current Mode Controller*	Dip-8-6	1.73	1.52	1.30
ICE2B765PIN-ND	Off-Line SMPS Current Mode Controller	TO-220-6-3	3.97	3.31	2.78
PEB2075N-V13INCT-ND	ISDN D-Channel Exchange Controller (IDEC®)	P-LCC-44	27.90	24.42	20.06
PEB3265H-V13IN-ND	Dual Channel Subscriber Line Interface Codec Filter SLICOFI-2x*	P-MQFP-64-1	15.03	13.53	10.53
PEB20256E-V21IN-ND	Multichannel Network Interface Controller for HDLC/PPP	P-BGA-388	182.99	159.39	153.48
PEB20320H-V34IN-ND	Multichannel Network Interface Controller for HDLC	P-MQFP-160-1	91.65	77.19	66.33
PEB20321H-V22IN-ND	Multichannel Network Interface Controller for HDLC with Extensions	P-MQFP-160-1	87.94	76.82	71.52
PEF3452H-V13IN-ND	Line Interface Unit for DS3, STS1 and E3 TE3-LIU™*	P-MQFP-44-2	42.66	38.40	29.87
PEF22810T-V21INCT-ND	Standard, Very High Bit-Rate, DSL Chipset, Line Driver	DSO-8	4.12	3.14	2.75
PMB2201RV12TRINCT-ND	2.5GHz Mixer DC and 0.8GHz-1.5GHz Vector Modulator	P-TSSOP-24	6.24	4.96	4.32
PXB4220E-V32IN-ND	Interworking Element for 8 E1/T1 Lines IWE8	P-BGA-256	105.08	91.79	85.46
PXB4220E-V33IN-ND	Interworking Element for 8 E1/T1 Lines IWE8	P-BGA-256	111.68	97.55	90.83
SAB82525N-V21INCT-ND	2-Ch. High Level Serial Communication Controller Extended (HSCX)	P-LCC-44-1	30.23	28.15	22.94
SAB82525N-V21INTR-ND	2-Ch. High Level Serial Communication Controller Extended (HSCX)	P-LCC-44-1	7036.47/500		
SAB82526N-V21IN-ND	1-Ch. High Level Serial Communication Controller Extended (HSCX)	P-LCC-44-1	19.16	17.25	13.42
SAE800IN-ND	Prog. Single/Dual/Triple Tone Gong*	Dip-8-4	6.16	5.14	4.32
SAF-C165H-LFV1.3IN-ND	Embedded C166 with USART, IOM-2 and HDLC Support*	P-144-TQFP	24.33	21.90	17.04
SAK-CIC751-EOM16TBAINCT-ND	16-Ch., 5V ADC Companion for Automotive Embedded Control*	PG-TSSOP-38-1	7.65	6.08	5.30
SAK-CIC751-EOM16TBAINTR-ND	16-Ch., 5V ADC Companion for Automotive Embedded Control*	PG-TSSOP-38-1	7528.32/3,000		
TCA785IN-ND	LSL Compatible Phase Control IC*	16-Dip	6.90	6.14	4.86
TDA5100INCT-ND	868MHz-870MHz ASK/FSK Transmitter*	P-TSSOP-16	3.59	2.74	2.40
TDA5101INCT-ND	311MHz-317MHz ASK/FSK Transmitter	P-TSSOP-16	3.59	2.74	2.40
TDA5103AINCT-ND	344MHz-347MHz ASK Transmitter	P-TSSOP-10	3.75	2.86	2.50
TDA5200INCT-ND	868MHz-870MHz and 433MHz-435MHz Low Power ASK Receiver	P-TSSOP-28-1	3.87	2.95	2.58
TDA5200INTR-ND	868MHz-870MHz and 433MHz-435MHz Low Power ASK Receiver	P-TSSOP-28-1	3591.90/3,000		
TDA5201INCT-ND	310MHz and 345MHz Low Power ASK Single Receiver*	P-TSSOP-28-1	4.88	3.88	3.38
TDA5201INTR-ND	310MHz and 345MHz Low Power ASK Single Receiver*	P-TSSOP-28-1	8844.00/3,000		
TDA5211INCT-ND	310MHz-350MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28	4.01	3.19	2.78
TDA5211INTR-ND	310MHz-350MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28	3946.37/3,000		
TDA5212INCT-ND	910MHz-920MHz Low Power FSK/ASK Superheterodyne Receiver	P-TSSOP-28	3.98	3.04	2.66
TDA5212INTR-ND	910MHz-920MHz Low Power FSK/ASK Superheterodyne Receiver	P-TSSOP-28	3694.47/3,000		
TDA21201-B7INCT-ND	Integrated Switch MOSFET Driver and MOSFET	TO-263-7-2	6.82	5.43	4.73
TDA21201-P7IN-ND	Integrated Switch MOSFET Driver and MOSFET	TO-220-7-3	5.57	4.65	3.90
TDA21201-S7IN-ND	Integrated Switch MOSFET Driver and MOSFET	TO-220-7-230	5.57	4.65	3.90

*** RoHS Compliant***

infineon EVALUATION AND DEMO BOARDS
RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
EASY6996FCIN-ND	Board Evaluation ADM6996FC	—	127.81	—	—
EASY6996LCIN-ND	Board Evaluation ADM6996LC	—	100.18	—	—
EASY6996ICPUIN-ND	Board Evaluation with CPU ADM6996I	—	181.86	—	—
EASY6996MCPUIN-ND	Board Evaluation with CPU ADM6996M	—	181.86	—	—
EASY6999IN-ND	Board Evaluation ADM6999	—	160.04	—	—
EASY6999UIN-ND	Board Evaluation ADM6999U	—	162.39	—	—
EASY7001MIIIN-ND	Board Evaluation ADM7001	—	89.29	—	—
EASY85152.3IN-ND	Board Evaluation ADM8513	—	78.21	—	—
EASY983BIN-ND	Board Evaluation ADM983B	—	51.99	—	—
EVALCOMBI-TDA16888IN-ND	Board Evaluation TDA16888	—	181.86	—	—
EVALSF2-ICE2A0565Z-12IN-ND	Board Demo ICE2A0565Z 10W SMPS	—	95.38	—	—
EVALSF2-ICE2A365IN-ND	Board Demo ICE2A365 40W SMPS	—	95.38	—	—
EVALSF2-ICE2B765PIN-ND	Board Demo ICE2B765P 80W SMPS	—	181.86	—	—
EVALSF3-ICE3A5565PIN-ND	Board Demo ICE3A5565P 100W SMPS	—	181.86	—	—
EVALSF3-ICE3B0565IN-ND	Board Demo ICE3B0565 15W SMPS	—	95.38	—	—
EVALSF3-ICE3B1565IN-ND	Board Demo ICE3B1565 20W SMPS	—	95.38	—	—
EVALSF3-ICE3B2065PIN-ND	Board Demo ICE3B2065P 40W SMPS	—	181.86	—	—
EVALSF3-ICE3B2565IN-ND	Board Demo ICE3B2565 30.4W SMPS	—	95.38	—	—
EVALSF3-ICE3DS01IN-ND	Board Demo ICE3DS01 60W 8-Dip	—	95.38	—	—
EVALSF3-ICE3DS01GIN-ND	Board Demo ICE3DS01G 60W SO-8	—	95.38	—	—
EVALPFC1-TDA4863-2IN-ND	Board Demo DCM-PFC 160W SMPS	—	108.90	—	—
EVALPFC2-ICE2PCS01IN-ND	Board Demo CCM-PFC 300/500W SMPS	—	181.86	—	—
EVALSF3-ICE3B2065PIN-ND	Board Demo ICE3B2065P 40W SMPS	—	181.86	—	—
BFP460BOARDIN-ND	Board Application BFP460 LNA	—	3.80	—	—
BFP640BOARDIN-ND	Board Application BFP640 AN 82	—	13.83	—	—
BFP740BOARDIN-ND	Board Application Unpopulated BFP740	—	32.83	—	—
BGA616EVALIN-ND	Board Application Populated BGA616	—	44.83	—	—
DEMOBOARDPROFETIN-ND	Board Demo Profet® V2.0BTS	—	193.32	—	—
DEMOBOARDTLE4242GIN-ND	Board Demo TLE4242G	—	19.33	—	—
DEMOBOARDTLE6208-3GIN-ND	Board Demo TLE6208-3G	—	272.80	—	—
DEMOBOARDTLE6208-6GIN-ND	Board Demo TLE6208-6G	—	272.80	—	—
DEMOBOARDTLE6214LIN-ND	Board Demo TLE 6214L	—	181.86	—	—
DEMOBOARDTLE6244XIN-ND	Board Demo TLE 6244X	—	181.86	—	—
DEMOBOARDTLE6288RIN-ND	Board Demo TLE 6288R	—	95.38	—	—
DEMOBOARDTLE6365GIN-ND	Board Demo TLE 6365 Rev. 4	—	227.33	—	—
DEMOBOARDTLE6368IN-ND	Board Demo TLE 6368	—	181.86	—	—
DEMOBOARDTLE6389-2GVIN-ND	Board Demo TLE 6389-2GV	—	181.86	—	—
DEMOBOARDTLE6389-2GV50IN-ND	Board Demo TLE 6389-2 GV50	—	181.86	—	—
DEMOBOARDTLE6389-3GV50IN-ND	Board Demo TLE 6389-3 GV50	—	181.86	—	—
DEMOBOARDTLE7201RIN-ND	Board Demo TLE7201R	—	181.86	—	—
DEMOBOARDTLE7209-2RIN-ND	Board Demo TLE 7209-2R	—	193.32	—	—
DEMOBOARDTLE8201RIN-ND	Board Demo TLE8201R V1.0	—	272.80	—	—
KP125EVALBOARDIN-ND	Board Evaluation KP125	—	181.86	—	—

zilog COUNTERS/ TIMERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z84C3006AEG	269-4576-ND	6MHz, Z80 CMOS Counter/Timer Circuit*	44-LQFP	4.92	3.69	2.73
Z84C3006PEG	269-3910-ND	6MHz, Z80 CMOS Counter/Timer Circuit*	28-Dip	4.92	3.69	2.73
Z84C3008PEG	269-3911-ND	8MHz, Z80 CMOS Counter/Timer Circuit*	28-Dip	4.92	3.69	2.73
Z84C3008VEG	269-3912-ND	8MHz, Z80 CMOS Counter/Timer Circuit*	44-PLCC	4.92	3.69	2.73
Z84C3010PEG	269-3914-ND	10MHz, Z80 CMOS Counter/Timer Circuit*	28-Dip	4.92	3.69	2.73
Z84C3010VEC	269-3043-ND	10MHz, Z80 CMOS Counter/Timer Circuit	44-PLCC	4.92	3.69	2.73

zilog MICROPROCESSORS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z8018006FSC	269-3004-ND	6MHz, Z180 CMOS Enhanced Microprocessor	80-QFP	9.33	7.00	5.19
Z8018006FSG	269-3879-ND	6MHz, Z180 CMOS Enhanced Microprocessor*	80-QFP	9.33	7.00	5.19
Z8018006PEC	269-3005-ND	6MHz, Z180 CMOS Enhanced Microprocessor	64-Dip	10.50	7.88	5.84
Z8018006PEG	269-3880-ND	6MHz, Z180 CMOS Enhanced Microprocessor*	64-Dip	10.50	7.88	5.84
Z8018006PSG	269-3881-ND	6MHz, Z180 CMOS Enhanced Microprocessor*	64-Dip	8.85	6.64	4.91
Z8018006VEC	269-3007-ND	6MHz, Z180 CMOS Enhanced Microprocessor	68-PLCC	10.50	7.88	5.84
Z8018006VSC	269-3008-ND	6MHz, Z180 CMOS Enhanced Microprocessor	68-PLCC	8.85	6.64	4.91
Z8018008FSC	269-3009-ND	8MHz, Z180 CMOS Enhanced Microprocessor	80-QFP	9.90	7.43	5.50
Z8018008FSG	269-3882-ND	8MHz, Z180 CMOS Enhanced Microprocessor*	80-QFP	9.90	7.43	5.50
Z8018008PEG	269-3883-ND	8MHz, Z180 CMOS Enhanced Microprocessor*	64-Dip	11.16	8.37	6.20
Z8018008PSG	269-3884-ND	8MHz, Z180 CMOS Enhanced Microprocessor*	64-Dip	9.21	6.91	5.11
Z8018008VEC	269-3012-ND	8MHz, Z180 CMOS Enhanced Microprocessor	68-PLCC	12.72	9.54	7.07
Z8018008VEG	269-3885-ND	8MHz, Z180 CMOS Enhanced Microprocessor*	68-PLCC	12.72	9.54	7.07
Z8018008VSG	269-3886-ND	8MHz, Z180 CMOS Enhanced Microprocessor*	68-PLCC	9.21	6.91	5.11
Z8018010FSG	269-3887-ND	10MHz, Z180 CMOS Enhanced Microprocessor*	80-QFP	11.28	8.46	6.27
Z8018010PEG	269-3888-ND	10MHz, Z180 CMOS Enhanced Microprocessor*	64-Dip	13.08	9.81	7.26
Z8018010PSG	269-3889-ND	10MHz, Z180 CMOS Enhanced Microprocessor*	64-Dip	11.28	8.46	6.27
Z8018010VEG	269-3890-ND	10MHz, Z180 CMOS Microprocessor*	68-PLCC	13.08	9.81	7.26
Z8018010VSC	269-3018-ND	10MHz, Z180 CMOS Microprocessor	68-PLCC	11.28	8.46	6.27
Z84C0006AEG	269-4572-ND	6MHz, Z80 CMOS Microprocessor*	44-LQFP	4.92	3.69	2.73
Z84C0006PEG	269-3892-ND	6MHz, Z80 CMOS Microprocessor*	40-Dip	4.92	3.69	2.73
Z84C0006VEG	269-3893-ND	6MHz, Z80 CMOS Microprocessor*	44-PLCC	4.92	3.69	2.73
Z84C0008AEG	269-4573-ND	8MHz, Z80 CMOS Microprocessor*	44-LQFP	4.92	3.69	2.73
Z84C0008PEG	269-3895-ND	8MHz, Z80 CMOS Microprocessor*	40-Dip	4.92	3.69	2.73
Z84C0008VEG	269-3896-ND	8MHz, Z80 CMOS Microprocessor*	44-PLCC	4.92	3.69	2.73
Z84C0010AEG	269-4574-ND	10MHz, Z80 CMOS Microprocessor*	44-LQFP	4.92	3.69	2.73
Z84C0010PEG	269-3898-ND	10MHz, Z80 CMOS Microprocessor*	40-Dip	4.92	3.69	2.73
Z84C0010VEG	269-3899-ND	10MHz, Z80 CMOS Microprocessor*	44-PLCC	4.92	3.69	2.73
Z84C0020AEG	269-4575-ND	20MHZ, Z80 CMOS Microprocessor*	44-LQFP	11.64	8.73	6.46
Z84C0020PEC	269-3029-ND	20MHz, Z80 CMOS Microprocessor	40-Dip	11.64	8.73	6.46
Z84C0020PEG	269-3901-ND	20MHz, Z80 CMOS Microprocessor*	40-Dip	11.64	8.73	6.46
Z84C0020VEC	269-3030-ND	20MHz, Z80 CMOS Microprocessor	44-PLCC	11.64	8.73	6.46
Z84C0020VEG	269-3902-ND	20MHz, Z80 CMOS Microprocessor*	44-PLCC	11.64	8.73	6.46
Z84C1008PEG	269-3903-ND	8MHz, Z80 Direct Memory Access Controller*	40-Dip	10.80	8.10	6.00
Z8S18010FSC	269-3098-ND	10MHz, Static Z180 Microprocessor	80-QFP	9.33	7.00	5.19
Z8S18010FSG	269-4296-ND	10MHz, Static Z180 Microprocessor*	80-QFP	9.33	7.00	5.19
Z8S18010PSG	269-4297-ND	10MHz, Static Z180 Microprocessor*	64-Dip	8.85	6.64	4.91
Z8S18010VSG	269-4298-ND	10MHz, Static Z180 Microprocessor*	68-PLCC	8.85	6.64	4.91
Z8S18020FEG	269-4299-ND	20MHz, Static Z180 Microprocessor*	80-QFP	14.88	11.16	8.26
Z8S18020FEC1960	269-3104-ND	20MHz, Static Z180 Microprocessor, Extended Temperature	80-QFP	14.88	11.16	8.26
Z8S18020FEG1960	269-4300-ND	20MHz, Static Z180 Microprocessor, Extended Temperature*	80-QFP	14.88	11.16	8.26
Z8S18020FSG	269-4541-5-ND	20MHz, Static Z180 Microprocessor*	80-QFP	12.27	9.21	6.81
Z8S18020PSG	269-4301-ND	20MHz, Static Z180 Microprocessor*	64-Dip	12.27	9.21	6.81
Z8S18020PSG1960	269-4302-ND	20MHz, Static Z180 Microprocessor*	64-Dip	12.27	9.21	6.81
Z8S18020VEG	269-4303-ND	20MHz, Static Z180 Microprocessor, Extended Temperature*	68-PLCC	14.88	11.16	8.26
Z8S18020VEC1960	269-3110-ND	20MHz, Static Z180 Microprocessor, Extended Temperature	68-PLCC	14.88	11.16	8.26
Z8S18020VEG1960	269-4304-ND	20MHz, Static Z180 Microprocessor, Extended Temperature*	68-PLCC	14.88	11.16	8.26
Z8S18020VSG1960	269-4305-ND	20MHz, Static Z180 Microprocessor*	68-PLCC	12.27	9.21	6.81
Z8S18020VSG	269-3863-ND	20MHz, Static Z180 Microprocessor*	68-PLCC	12.27	9.21	6.81
Z8S18033VEC	269-3115-ND	33MHz, Static Z180 Microprocessor, Extended Temperature	68-PLCC	16.32	12.24	9.06
Z8S18033VEG	269-4306-ND	33MHz, Static Z180 Microprocessor, Extended Temperature*	68-PLCC	16.32	12.24	9.06
Z8S18033VSG	269-4307-ND	33MHz, Static Z180 Microprocessor*	68-PLCC	13.56	10.17	7.53

zilog PERIPHERAL CONTROLLERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z84C1506FEG	269-3904-ND	6MHz, Z80 Intelligent Peripheral Controller*	100-QFP	14.16	10.62	7.86
Z84C1510AEG	269-3905-ND	10MHz, Z80 Intelligent Peripheral Controller*	100-VQFP	14.16	10.62	7.86
Z84C1510FEG	269-3906-ND	10MHz, Z80 Intelligent Peripheral Controller*	100-QFP	14.16	10.62	7.86
Z84C1516ASG	269-3907-ND	16MHz, Z80 Intelligent Peripheral Controller*	100-VQFP	18.75	14.07	10.41
Z84C1516FSC	269-3035-ND	16MHz, Z80 Intelligent Peripheral Controller	100-QFP	18.39	13.80	10.21
Z84C1516FSG	269-3908-ND	16MHz, Z80 Intelligent Peripheral Controller*	100-QFP	18.39	13.80	10.21

zilog SERIAL COMMUNICATION CONTROLLERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z8523008PEC	269-3044-ND	8MHz, Enhanced Serial Communication Controller, Extended Temperature	40-Dip	22.62	16.97	12.56
Z8523008PEG	269-3916-ND	8MHz, Enhanced Serial Communication Controller, Extended Temperature*	40-Dip	22.62	16.97	12.56
Z8523008PSG	269-3917-ND	8MHz, Enhanced Serial Comm. Controller*	40-Dip	13.83	10.38	7.69
Z8523008VEG	269-3918-ND	8MHz, Enhanced Serial Communication Controller, Extended Temperature*	44-PLCC	19.95	14.97	11.09
Z8523008VSG	269-3919-ND	8MHz, Enhanced Serial Comm. Controller*	44-PLCC	13.83	10.38	7.69
Z8523010PEG	269-3920-ND	10MHz, Enhanced Serial Communication Controller Extended Temperature*	40-Dip	28.32	21.24	15.74
Z8523010PSG	269-3921-ND	10MHz, Enhanced Serial Comm. Controller*	40-Dip	17.46	13.10	9.70
Z8523010VEG	269-3922-ND	10MHz, Enhanced Serial Communication Controller Extended Temperature*	44-PLCC	28.32	21.24	15.74
Z8523010VSG	269-3923-ND	10MHz, Enhanced Serial Comm. Controller*	44-PLCC	17.46	13.10	9.70
Z8523016PEG	269-3924-ND	16MHz, Enhanced Serial Communication Controller Extended Temperature*	40-Dip	34.95	26.22	19.41
Z8523016PSG	269-3925-ND	16MHz, Enhanced Serial Comm. Controller*	40-Dip	22.44	16.83	12.46
Z8523016VEG	269-3926-ND	16MHz, Enhanced Serial Communication Controller Extended Temperature*	44-PLCC	34.95	26.22	19.41
Z8523016VSG	269-3927-ND	16MHz, Enhanced Serial Comm. Controller*	44-PLCC	22.44	16.83	12.46
Z8523020VSC	269-3057-ND	20MHz, Enhanced Serial Comm. Controller	44-PLCC	29.58	22.19	16.44
Z8523020VSG	269-3928-ND	20MHz, Enhanced Serial Comm. Controller*	44-PLCC	29.58	22.19	16.44
Z85C3008PEG	269-3929-ND	8MHz, Z8500 CMOS Serial Comm. Controller*	40-Dip	11.76	8.82	6.54
Z85C3008PSG	269-3930-ND	8MHz, Z8500 CMOS Serial Comm. Controller*	40-Dip	7.86	5.90	4.37
Z85C3008VEG	269-3931-ND	8MHz, Z8500 CMOS Serial Comm. Controller*	44-PLCC	11.76	8.82	6.54
Z85C3008VSG	269-3932-ND	8MHz, Z8500 CMOS Serial Comm. Controller*	44-PLCC	7.86	5.90	4.37
Z85C3010PEG	269-3933-ND	10MHz, Z8500 CMOS Serial Comm. Controller*	40-Dip	13.38	10.04	7.44
Z85C3010PSG	269-3934-ND	10MHz, Z8500 CMOS Serial Comm. Controller*	40-Dip	8.97	6.73	4.99
Z85C3010VEG	269-3935-ND	10MHz, Z8500 CMOS Serial Comm. Controller*	44-PLCC	13.38	10.04	7.44
Z85C3010VSG	269-3936-ND	10MHz, Z8500 CMOS Serial Comm. Controller*	44-PLCC	8.97	6.73	4.99
Z85C3016PSC	269-3066-ND	16MHz, Z8500 CMOS Serial Comm. Controller	40-Dip	13.11	9.84	7.29
Z85C3016PSG	269-3937-ND	16MHz, Z8500 CMOS Serial Comm. Controller*	40-Dip	13.11	9.84	7.29
Z85C3016VSG	269-3938-ND	16MHz, Z8500 CMOS Serial Comm. Controller*	44-PLCC	13.11	9.84	7.29

NXP Semiconductors AMPLIFIERS
RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NE5234D/01	568-3193-5-ND	Matched Quad High Performance Op Amp	14-SOIC	2.00	1.60	1.20
SA5211D/01	568-2449-5-ND	180MHz Transimpedance Amp	14-SOIC	8.74	6.99	5.90
SA5217D/01	568-3570-5-ND	Postamp with Link Status	20-SOIC	9.39	7.52	6.34
SA5232D/01	568-3571-5-ND	Matched Dual Low Voltage Op Amp	8-SOIC	2.42	1.94	1.46
SA5232N/01	568-3572-5-ND	Matched Dual Low Voltage Op Amp	8-Dip	2.42	1.94	1.46
SA5234D/01	568-3573-5-ND	Matched Quad High Performance Low Voltage Op Amp	14-SOIC	2.42	1.94	1.46
SA58631TK-T	568-2450-1-ND	3W BTL Audio Amp	8-HVSON	1.73	1.38	1.04
SA58631TK-T	568-2450-2-ND	3W BTL Audio Amp	8-HVSON	2649.60/3,000		
SA58632BS-T	568-2451-1-ND	2x2.2W BTL Audio Amp	20-HVQFN	2.32	1.86	1.39
SA58632BS-T	568-2451-2-ND	2x2.2W BTL Audio Amp	20-HVQFN	2964.16/2,500		
SA58670BS,115	568-4268-1-ND	Class D Stereo Audio Amp	20-HVQFN	1.43	1.14	.86
SA58670BS,115	568-4268-2-ND	Class D Stereo Audio Amp	20-HVQFN	1111.50/1,500		
TDA1013BU	568-1125-5-ND	4W Audio Power Amp	9-SIL	1.20	1.00	.80
TDA1308AT/N2-G	568-3498-1-ND	Class AB Stereo Headphone Driver	8-SOIC	.92	.77	.62
TDA1308AT/N2-G	568-3498-2-ND	Class AB Stereo Headphone Driver	8-SOIC	406.05/1,000		
TDA1308AUK-G	568-4184-1-ND	Class AB Stereo Headphone Driver	8-WLCSP	.98	.82	.66
TDA1308AUK-G	568-4184-2-ND	Class AB Stereo Headphone Driver	8-WLCSP	2080.16/5,000		
TDA1308T/N2	568-2090-5-ND	Class AB Stereo Headphone Driver	8-SOIC	.92	.77	.62
TDA1308TT/N2-T	568-3499-1-ND	Class AB Stereo Headphone Driver	8-TSSOP	.72	.54	.41
TDA1308TT/N2-T	568-3499-2-ND	Class AB Stereo Headphone Driver	8-TSSOP	581.43/2,500		
TDA1516BQU	568-1127-5-ND	24W BTL or 2x12W Stereo Car Radio Power Amp	13-SIL	3.77	3.02	2.35
TDA1517ATWDH	568-3500-5-ND	2x4W SE BTL Power Amp	20-HTSSOP	.91	.76	.61

** RoHS Compliant*

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NXP Semiconductors — AMPLIFIERS *(Continued)*
RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TDA1517PN	568-1128-5-ND	2x6W Stereo Power Amp	18-HDip	1.08	.90	.72
TDA1517U	568-3501-5-ND	2x6W Stereo Power Amp	9-SIL	1.08	.90	.72
TDA1519BU	568-1129-5-ND	12W BTL or 2x6W Stereo Car Radio Power Amp	9-SIL	2.69	2.16	1.68
TDA1519CSPU	568-3502-5-ND	22W BTL or 2x11W Stereo Power Amp	9-SMS	3.77	3.02	2.35
TDA1519CU	568-1130-5-ND	22W BTL or 2x11W Stereo Power Amp	9-SIL	3.77	3.02	2.35
TDA1519U	568-3505-5-ND	22W BTL or 2x11W Stereo Power Amp	9-SIL	2.66	2.14	1.66
TDA1524AN	568-1131-5-ND	Stereo-Tone/Volume Control Circuit	18-DIL	3.24	2.60	2.02
TDA1552QU	568-3506-5-ND	2x22W BTL Stereo Car Radio Power Amp	13-SIL	5.06	4.05	3.15
TDA1554QU	568-1132-5-ND	4x11W Single Ended or 2x22W Power Amp	17-SIL	2.64	2.11	1.65
TDA1557QU	568-3507-5-ND	2x22W BTL Stereo Car Radio Power Amp	13-SIL	2.64	2.11	1.65
TDA1558QU	568-3508-5-ND	2x22W or 4x11W Single-Ended Car Radio Power Amp	17-SIL	5.58	4.47	3.48
TDA1562QU	568-1134-5-ND	70W High Efficiency Power Amp	17-DIL	9.04	8.15	7.22
TDA1596TD	568-3581-5-ND	IF Amp/Demodulator	20-SOIC	4.15	3.32	2.59
TDA1597N	568-3582-5-ND	IF Amp/Demodulator	18-Dip	4.54	3.64	2.83
TDA1597TD	568-3583-5-ND	IF Amp/Demodulator	20-SOIC	4.35	3.49	2.71
TDA1599TD	568-3584-5-ND	IF Amp/Demodulator	20-SOIC	2.81	2.25	1.75
TDA2611AU	568-1135-5-ND	5W Audio Power Amp	9-SIL	.97	.82	.65
TDA2614U	568-3494-5-ND	6W Audio Power Amp	9-SIL	1.12	.94	.75
TDA2615U	568-3495-5-ND	2x6W Audio Power Amp	9-SIL	1.45	1.16	.87
TDA2616QU	568-3496-5-ND	2x12W Audio Power Amp	9-SIL	1.52	1.22	.92
TDA2616U	568-3497-5-ND	2x12W Audio Power Amp	9-SIL	1.52	1.22	.92
TDA5051ATD	568-1136-5-ND	Home Automation Modem	16-SOIC	4.62	3.70	2.88
TDA6111QU	568-3587-5-ND	Video Output Amp	9-SIL	4.17	3.34	2.60
TDA7050TD	568-1137-5-ND	Low Voltage Mono/Stereo Power Amp	8-SOIC	.79	.66	.53
TDA7052AN	568-1138-5-ND	1W BTL Mono Audio Amp	8-Dip	1.03	.87	.69
TDA7052ATD-T	568-1139-1-ND	1W BTL Mono Audio Amp	8-SOIC	1.03	.87	.69
TDA7052ATD-T	568-1139-2-ND	1W BTL Mono Audio Amp	8-SOIC	1120.28/2,500		
TDA7052BN	568-3489-5-ND	1W BTL Mono Audio Amp	8-Dip	1.36	1.14	.91
TDA7052BTD	568-3490-5-ND	1W BTL Mono Audio Amp	8-SOIC	1.36	1.14	.91
TDA7052N	568-1140-5-ND	1W BTL Mono Audio Amp	8-Dip	.91	.76	.61
TDA7053AN	568-3491-5-ND	Stereo BTL Audio Output Amp	16-Dip	1.45	1.21	.97
TDA7053ATD	568-3492-5-ND	Stereo BTL Audio Output Amp	16-SOIC	1.45	1.21	.97
TDA7056ATD	568-3493-5-ND	3W BTL Mono Audio Amp	20-SOIC	1.16	.97	.78
TDA7056AU	568-1141-5-ND	3W BTL Mono Audio Output Amp	9-SIL	1.16	.97	.78
TDA7056BU	568-1142-5-ND	3W BTL Mono Audio Amp	9-SIL	1.31	1.05	.79
TDA7057AQU	568-1143-5-ND	2x8W Stereo BTL Audio Output Amp	13-SIL	1.72	1.38	1.04
TDA8510JU	568-3472-5-ND	26W BTL and 2x3W SE Power Amp	17-SIL	3.26	2.61	2.03
TDA8511JU	568-3473-5-ND	4x13W Single-Ended Power Amp	17-SIL	3.26	2.61	2.03
TDA8512JU	568-3474-5-ND	26W BTL and 2x13W SE or 4x13W SE Power Amp	17-SIL	3.04	2.44	1.90
TDA8541TD	568-3475-5-ND	1W BTL Audio Amp	8-SOIC	1.87	1.50	1.13
TDA8542AT/N1	568-3476-5-ND	2x1.5W BTL Audio Amp	20-SOIC	2.46	1.98	1.54
TDA8542TSDK-T	568-2379-1-ND	2x0.7W BTL Audio Amp	20-SSOP	2.37	1.90	1.43
TDA8542TSDK-T	568-2379-2-ND	2x0.7W BTL Audio Amp	20-SSOP	3031.68/2,500		
TDA8543TD-T	568-2380-1-ND	2W BTL Audio Amp	16-SOIC	2.00	1.60	1.20
TDA8543TD-T	568-2380-2-ND	2W BTL Audio Amp	16-SOIC	2560.00/2,500		
TDA8547TSDK-T	568-2381-1-ND	2x0.7W BTL Audio Amp	20-SSOP	2.37	1.90	1.48
TDA8547TSDK-T	568-2381-2-ND	2x0.7W BTL Audio Amp	20-SSOP	3315.69/2,500		
TDA8551TD	568-3477-5-ND	1W BTL Audio Amp	8-SOIC	1.16	.97	.78
TDA8552TD	568-3478-5-ND	2x1.4W BTL Audio Amp	20-SOIC	1.72	1.38	1.04
TDA8552TSDB-T	568-3479-1-ND	2x1.4W BTL Audio Amp	20-SSOP	1.72	1.38	1.04
TDA8552TSDB-T	568-3479-2-ND	2x1.4W BTL Audio Amp	20-SSOP	2206.40/2,500		
TDA8559TD	568-3480-5-ND	Low Voltage Stereo Headphone Amp	16-SOIC	1.12	.94	.75
TDA8560QU	568-3481-5-ND	2x40W/2-Ohm Stereo BTL Car Radio Power Amp	13-SIL	5.68	4.55	3.84
TDA8563AQU	568-3482-5-ND	2x40W/2-Ohm Stereo BTL Car Radio Power Amp	13-SIL	5.22	4.18	3.53
TDA8563Q10U	568-1145-5-ND	2x40W/2-Ohm Stereo BTL Car Radio Power Amp	13-SIL	5.68	4.55	3.84
TDA8563QU	568-3483-5-ND	2x40W/2-Ohm Stereo BTL Car Radio Power Amp	13-SIL	5.05	4.05	3.42
TDA8566QU	568-3484-5-ND	2x40W/2-Ohm Stereo BTL Car Radio Power Amp	17-SIL	5.12	4.10	3.46
TDA8566TH	568-3485-5-ND	2x40W/2-Ohm Stereo BTL Car Radio Power Amp	20-HSOP	5.12	4.10	3.46
TDA8567QU	568-1146-5-ND	4x25W BTL Quad Car Radio Power Amp	23-DIL	9.16	7.33	6.19
TDA8568QU	568-3486-5-ND	4x25W BTL Quad Car Radio Power Amp	23-SIL	9.16	7.33	6.19
TDA8569QU	568-3487-5-ND	4x40W BTL Quad Car Radio Power Amp	23-SIL	8.52	7.68	6.81
TDA8571JU	568-3488-5-ND	4x40W BTL Quad Car Radio Power Amp	23-SIL	9.00	7.21	6.08
TDA8579TD	568-3592-5-ND	Dual Common-Mode Rejection Diff. Line Receiver	8-SOIC	1.26	1.02	.76
TDA8920BJ	568-3463-5-ND	2x100W Class-D Power Amp	23-SIL	5.49	4.40	3.71
TDA8920BTH-T	568-2060-1-ND	2x100W Class-D Power Amp	24-HSOP	5.49	4.40	3.71
TDA8920BTH-T	568-2060-2-ND	2x100W Class-D Power Amp	24-HSOP	1743.84/500		
TDA8920TH-T	568-3464-1-ND	2x80W Class-D Power Amp	24-HSOP	7.21	5.77	4.87
TDA8922BJ	568-3465-5-ND	2x50W Class-D Power Amp	23-SIL	5.15	4.13	3.21
TDA8931T	568-3609-5-ND	1x20W Power Comparator	20-SOIC	2.33	1.87	1.45
TDA8941PD	568-3459-5-ND	1.5W Mono BTL Audio Amp	8-Dip	.95	.80	.64
TDA8943SFU	568-1147-5-ND	6W Mono BTL Audio Amp	9-SIL	1.16	.97	.78
TDA8944AJU	568-3461-5-ND	2x7W BTL Audio Amp	17-SIL	1.69	1.36	1.02
TDA8944JU	568-3462-5-ND	2x7W BTL Audio Amp	17-SIL	1.52	1.22	.92
TDA8945SU	568-3509-5-ND	15W BTL Mono Audio Amp	9-SIL	1.34	1.08	.81
TDA8946AJU	568-3456-5-ND	2x15W BTL Audio Amp	17-SIL	1.86	1.50	1.12
TDA8946JU	568-3457-5-ND	2x15W Stereo BTL Audio Amp	17-SIL	1.79	1.44	1.08
TDA8947J	568-3458-5-ND	4-Channel Audio Amp	17-SIL	2.48	1.99	1.50
TFA9841J	568-3451-5-ND	1-Channel Audio Amp	9-SIL	1.08	.90	.72
TFA9842BJ	568-3452-5-ND	2-Channel Audio Amp	9-SIL	1.37	1.14	.92
TFA9842J	568-3453-5-ND	2-Channel Audio Amp	9-SIL	1.37	1.14	.92
TFA9843BJ	568-3454-5-ND	2-Channel Audio Amp	9-SIL	1.49	1.25	1.00
TFA9843J	568-3455-5-ND	2-Channel Audio Amp	9-SIL	1.49	1.25	1.00
TJA1010TD-T	568-3614-1-ND	Octal Low Side Driver	28-SOIC	2.15	1.73	1.30
TJA1010TD-T	568-3614-2-ND	Octal Low Side Driver	28-SOIC	1118.78/1,000		

NXP Semiconductors — CLOCK MANAGEMENT
RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCK210BS-T	568-2032-1-ND	Low Voltage Dual 1:5 Diff. ECL/PECL Clock Driver	32-HVQFN	4.05	3.24	2.52
PCK953BD/G-F	568-2033-1-ND	20-125MHz PECL Input / 9 CMOS Output 3.3V PLL Clock Driver	32-LQFP	3.60	2.88	2.24
PCK953BD/G-F	568-2033-2-ND	20-125MHz PECL Input / 9 CMOS Output 3.3V PLL Clock Driver	32-LQFP	4080.00/2,000		

NXP Semiconductors — DATA COMMUNICATIONS
RoHS Compliant

USB

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
IP4220CZ6 T/R	568-3529-1-ND	Dual USB 2.0 Integrated ESD Protection	6-TSOP	.90	.75	.60
IP4220CZ6 T/R	568-3529-2-ND	Dual USB 2.0 Integrated ESD Protection	6-TSOP	1170.00/3,000		
ISP1102BS-T	568-1876-1-ND	Advanced 12-Bit USB Transceiver	14-HVQFN	1.42	1.19	.95
ISP1102BS-T	568-1876-2-ND	Advanced 12-Bit USB Transceiver	14-HVQFN	3623.81/6,000		
ISP1102W-G	568-3143-1-ND	Advanced 12-Bit USB Transceiver	16-HBCC	1.42	1.19	.95
ISP1102W-G	568-3143-2-ND	Advanced 12-Bit USB Transceiver	16-HBCC	882.03/1,400		
ISP1104W-G	568-3144-1-ND	Advanced Universal Serial Bus Transceiver	16-HBCC	1.42	1.19	.95
ISP1104W-G	568-3144-2-ND	Advanced Universal Serial Bus Transceiver	16-HBCC	882.03/1,400		
ISP1105BS-T	568-1877-1-ND	Advanced 12M-Bit Transceiver	16-HVQFN	1.42	1.19	.95
ISP1105BS-T	568-1877-2-ND	Advanced 12M-Bit Transceiver	16-HVQFN	3623.81/6,000		
ISP1105W-G	568-3145-1-ND	Advanced 12M-Bit Transceiver	16-HBCC	1.42	1.19	.95
ISP1105W-G	568-3145-2-ND	Advanced 12M-Bit Transceiver	16-HBCC	882.03/1,400		
ISP1106W-G	568-3147-1-ND	Embedded 12M-Bit USB Host Controller	16-HBCC	1.42	1.19	.95
ISP1106W-G	568-3147-2-ND	Embedded 12M-Bit USB Host Controller	16-HBCC	882.03/1,400		
ISP1109BS	568-3148-ND	Universal Serial Bus Transceiver	32-HVQFN	2.25	1.80	1.35
ISP1110VH-G	568-3149-1-ND	Universal Serial Bus Transceiver with UART	16-HBCC	1.48	1.24	.99
ISP1110VH-G	568-3149-2-ND	Universal Serial Bus Transceiver with UART	16-HBCC	921.13/1,400		
ISP1160BD01-T	568-1878-1-ND	Embedded 12M-Bit USB Host Controller	64-LQFP	5.79	4.64	3.91
ISP1160BD01-T	568-1878-2-ND	Embedded 12M-Bit USB Host Controller	64-LQFP	5427.56/1,500		
ISP1160BM01-T	568-1879-1-ND	Embedded 12M-Bit USB Host Controller	64-LQFP	5.79	4.64	3.91
ISP1160BM01-T	568-1879-2-ND	Embedded 12M-Bit USB Host Controller	64-LQFP	7236.75/2,000		
ISP1161A1BD	568-1162-ND	USB Single-Chip Host/Device Controller	64-LQFP	7.37	5.90	4.98
ISP1161A1BM-S	568-1164-ND	USB Single-Chip Host/Device Controller	64-LQFP	7.37	5.90	4.98
ISP1181ABS	568-3151-5-ND	Full Speed USB Controller	48-HVQFN	4.14	3.32	2.58
ISP1181ADGG	568-1001-5-ND	Full Speed USB Controller	48-TSSOP	4.36	3.49	2.72
ISP1181BBS	568-3152-5-ND	Full Speed USB Controller	48-HVQFN	4.36	3.49	2.72
ISP1181BDGG	568-1002-5-ND	Full Speed USB Controller	48-TSSOP	4.36	3.49	2.72
ISP1183BS-T	568-1880-1-ND	Low Power 12M-Bit USB Interface Device with DMA	32-HVQFN	3.43	2.75	2.14
ISP1183BS-T	568-1880-2-ND	Low Power 12M-Bit USB Interface Device with DMA	32-HVQFN	11447.25/6,000		
ISP1301BS	568-1166-ND	USB On-the-Go Transceiver	24-HVQFN	2.25	1.80	1.40
ISP1301BS-T	568-1881-1-ND	USB On-the-Go Transceiver	24-HVQFN	2.25	1.80	1.40
ISP1301BS-T	568-1881-2-ND	USB On-the-Go Transceiver	24-HVQFN	7500.00/6,000		
ISP1362BD	568-1167-ND	Single-Chip USB OTG Controller	64-LQFP	7.47	5.98	5.05
ISP1362BD-S	568-1219-ND	Single-Chip USB OTG Controller	64-LQFP	7.47	5.98	5.05
ISP1362EE-T	568-1882-1-ND	12M-Bit USB OTG Controller	64-TFBGA	7.47	5.98	5.05
ISP1362EE-T	568-1882-2-ND	12M-Bit USB OTG Controller	64-TFBGA	11584.08/2,500		
ISP1504ABS	568-3154-ND	ULPI Transceiver	32-HVQFN	3.02	2.42	1.88
ISP1505ABS	568-3155-ND	ULPI Transceiver	24-HVQFN	2.86	2.29	1.78
ISP1506ABS	568-3156-ND	ULPI Transceiver	24-HVQFN	3.08	2.47	1.92
ISP1520BD-S	568-1169-ND	High Speed USB Hub Controller	64-LQFP	5.57	4.46	3.47
ISP1520BD-T	568-1883-1-ND	HS 480M-Bit Hub Controller	64-LQFP	5.57	4.46	3.47
ISP1520BD-T	568-1883-2-ND	HS 480M-Bit Hub Controller	64-LQFP	4730.95/1,500		
ISP1521BE	568-1170-ND	High Speed USB Hub Controller	80-LQFP	5.07	4.06	3.43
ISP1521BE-T	568-1884-1-ND	HS 480M-Bit Hub Controller	80-LQFP	5.07	4.06	3.43
ISP1521BE-T	568-1884-2-ND	HS 480M-Bit Hub Controller	80-LQFP	3171.00/1,000		
ISP1561BM	568-1171-ND	HS USB PCI Host Controller	128-LQFP	6.84	5.48	4.62
ISP1562BE	568-3157-ND	HS USB PCI Host Controller	100-LQFP	5.47	4.38	3.70
ISP1563BM	568-3158-ND	HS USB PCI Host Controller	128-LQFP	6.74	5.39	4.55
ISP1564HL-T	568-4018-1-ND	HS USB PCI Host Controller	100-LQFP	5.05	4.05	3.42
ISP1564HL-T	568-4018-2-ND	HS USB PCI Host Controller	100-LQFP	3157.88/1,000		
ISP1582BS-T	568-1885-1-ND	HS 480M-Bit Peripheral Controller	56-HVQFN	5.05	4.05	3.42
ISP1582BS-T	568-1885-2-ND	HS 480M-Bit Peripheral Controller	56-HVQFN	6315.75/2,000		
ISP1583BS-T	568-1886-1-ND	HS 480M-Bit Peripheral Controller	64-HVQFN	5.89	4.72	3.98
ISP1583BS-T	568-1886-2-ND	HS 480M-Bit Peripheral Controller	64-HVQFN	3684.25/1,000		
ISP1760BE-T	568-1887-1-ND	HS 480M-Bit Host Controller	128-LQFP	8.84	7.08	5.97
ISP1760BE-T	568-1887-2-ND	HS 480M-Bit Host Controller	128-LQFP	5526.38/1,000		
ISP1760ET-S	568-3159-ND	HS USB Host Controller	128-TFBGA	8.84	7.08	5.97
ISP1761BE-T	568-1888-1-ND	HS 480M-Bit OTG Controller	128-LQFP	9.58	7.67	6.47
ISP1761ET-S	568-3160-ND	HS 480M-Bit OTG Controller	128-TFBGA	9.58	7.67	6.47
ISP1761BE-T	568-1888-2-ND	HS 480M-Bit OTG Controller	128-LQFP	5986.88/1,000		
PDIUSBD12D	568-1091-5-ND	USB Interface Device w/Parallel Bus	28-SOIC	2.75	2.20	1.71
PDIUSBD12PWDH-T	568-1092-1-ND	USB Interface Device with Parallel Bus	28-TSSOP	2.75	2.20	1.71
PDIUSBD12PWDH-T	568-1092-2-ND	USB Interface Device with Parallel Bus	28-TSSOP	3846.47/2,500		
PX1011A-EL1/G-S	568-3247-ND	Single Lane Transceiver	81-LFBGA	11.89	10.71	9.50
PX1012A-EL1/G-S	568-3348-ND	Single Lane Transceiver	81-LFBGA	12.31	11.09	9.83

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
A/D and D/A Converters						
PCF8591PN	568-1087-5-ND	8-Bit A/D and D/A Converter	16-Dip	3.67	2.94	2.29
PCF8591TD	568-3991-5-ND	8-Bit A/D and D/A Converter	16-SOIC	2.84	2.28	1.77
PCF8591TD-T	568-1088-1-ND	8-Bit A/D and D/A Converter	16-SOIC	2.84	2.28	1.77
PCF8591TD-T	568-1088-2-ND	8-Bit A/D and D/A Converter	16-SOIC	1610.58/1,000		
Analog-to-Digital Converters						
TDA8706AMDB-T	568-3593-1-ND	6-Bit ADC with Multiplexer	24-SSOP	6.53	5.23	4.41
TDA8706AMDB-T	568-3593-2-ND	6-Bit ADC with Multiplexer	24-SSOP	4079.00/1,000		
TDA8754HL11BE-S	568-3594-ND	Triple 8-Bit Video ADC up to 270 Msamples	144-LQFP	12.10	10.90	9.67
TDA8754HL14BE-S	568-2057-ND	Triple 8-Bit Video ADC up to 270 Msamples	144-LQFP	14.91	13.43	11.90
TDA8754HL17BE-S	568-2058-ND	Triple 8-Bit Video ADC up to 270 Msamples	144-LQFP	17.53	16.36	15.19
TDA8754HL21BE-S	568-3595-ND	Triple 8-Bit Video ADC up to 270 Msamples	144-LQFP	27.24	25.43	23.61
TDA8754HL27BE-S	568-2059-ND	Triple 8-Bit Video ADC up to 270 Msamples	144-LQFP	48.95	45.69	42.43
TDA8763AM3DB	568-3596-5-ND	10-Bit High Speed Low Power ADC	28-SSOP	9.12	7.30	6.16
TDA8763AM4DB-T	568-3597-1-ND	10-Bit High Speed Low Power ADC	28-SSOP	11.40	10.27	9.10
TDA8763AM4DB-T	568-3597-2-ND	10-Bit High Speed Low Power ADC	28-SSOP	8449.99/1,000		
TDA8763AM5DB	568-3598-5-ND	10-Bit High Speed Low Power ADC	28-SSOP	12.28	11.06	9.80
TDA8763M/3DB	568-3599-5-ND	10-Bit High Speed Low Power ADC	28-SSOP	9.12	7.30	6.16
TDA8763M/4DB	568-3600-5-ND	10-Bit High Speed Low Power ADC	28-SSOP	11.40	10.27	9.10
TDA8763M/5DB	568-3601-5-ND	10-Bit High Speed Low Power ADC	28-SSOP	12.28	11.06	9.80
TDA8766GB-T	568-3602-1-ND	10-Bit High Speed ADC	32-LQFP	6.21	4.97	4.20
TDA8766GB-T	568-3602-2-ND	10-Bit High Speed ADC	32-LQFP	7763.25/2,000		
TDA8783HLBE-S	568-3606-ND	10-Bit, 40MSPS ADC Interface for CCD Cameras	48-LQFP	17.68	16.51	15.33
TDA8784HLBE-S	568-3607-ND	10-Bit, 18MSPS ADC Interface for CCD Cameras	48-LQFP	8.59	7.74	6.86
TDA8787AHLBE-S	568-3608-ND	10-Bit, 18MSPS ADC Interface for CCD Cameras	48-LQFP	9.47	7.58	6.40
Digital-to-Analog Converter						
TDA8777HL/14/C1-S	568-3603-ND	Triple 10-Bit Video DAC	48-LQFP	8.94	8.06	7.14
TDA8777HL/24/C1-S	568-3604-ND	Triple 10-Bit Video DAC	48-LQFP	11.40	10.27	9.10
UDA1330ATSDK	568-3442-5-ND	Low Cost Stereo Filter DAC	16-SSOP	2.17	1.74	1.31
UDA1334ATSDH	568-3443-5-ND	Low Power Audio DAC with PLL	16-SSOP	1.65	1.33	1.00
UDA1334BTD	568-3444-5-ND	Low Power Audio DAC	16-SOIC	1.59	1.27	.96
UDA1334BTSDH	568-3445-5-ND	Low Power Audio DAC	16-SSOP	1.59	1.27	.96
UDA1334TSDH	568-3446-5-ND	Low Power Audio DAC	16-SSOP	1.90	1.52	1.14
UDA1351TSDB	568-3349-5-ND	96kHz IEC 958 Audio DAC	28-SSOP	.95	.79	.64
Video Encoder / Decoder						
SAA7103HB	568-1306-ND	Digital Video Encoder	44-QFP	16.89	15.77	14.65
SAA7105HBG	568-1307-ND	Digital Video Encoder	64-QFP	18.95	17.69	16.43
SAA7111AHBG	568-1308-ND	Enhanced Video Input Processor	64-QFP	15.00	14.00	13.00
SAA7111AHZBD	568-1309-ND	Enhanced Video Input Processor	64-LQFP	15.00	14.00	13.00
SAA7113HB	568-1310-ND	9-Bit Video Input Processor	44-QFP	15.43	13.90	12.33
SAA7114HBE	568-1311-ND	PAL/NTSC/SECAM Video Decoder	100-LQFP	18.95	17.69	16.43
SAA7115HLBE	568-1312-ND	PAL/NTSC/SECAM Video Decoder	100-LQFP	23.68	22.11	20.53
SAA7118EEB	568-1313-ND	Multistandard Video Decoder	156-BGA	27.90	26.04	24.18
SAA7118HBB	568-1314-ND	Multistandard Video Decoder	160-QFP	27.90	26.04	24.18
SAA7121HB	568-1315-ND	Digital Video Encoder	44-QFP	7.98	6.39	5.39
SAA7121H/V2	568-1185-1-ND	Digital Video Encoder	44-QFN	7.58	6.07	5.12
SAA7121H/V2	568-1185-2-ND	Digital Video Encoder	44-QFN	7106.25/1,500		
SAA7129AHB	568-1316-ND	Digital Video Encoder	44-QFP	14.91	13.43	11.90
SAA7146AHBB	568-1318-ND	Video SPCI Bridge	160-QFP	31.20	29.12	27.04

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CAN						
AU5790D	568-3053-5-ND	Single Wire CAN Transceiver	8-SOIC	2.34	1.88	1.46
AU5790D14/N	568-3054-5-ND	Single Wire CAN Transceiver	14-SOIC	2.15	1.73	1.30
PCA82C250N	568-1020-5-ND	CAN Controller Interface	8-Dip	1.40	1.12	.84
PCA82C250TD-T	568-1021-1-ND	CAN Controller Interface	8-SOIC	1.40	1.12	.84
PCA82C250TD-T	568-1021-2-ND	CAN Controller Interface	8-SOIC	1788.80/2,500		
PCA82C251TD-T	568-1023-1-ND	CAN Transceiver for 24V System	8-SOIC	1.53	1.23	.92
PCA82C251TD-T	568-1023-2-ND	CAN Transceiver for 24V System	8-SOIC	1955.20/2,500		
SJA1000N	568-1122-5-ND	Stand-Alone CAN Controller	28-Dip	5.43	4.35	3.38
SJA1000TD	568-3994-5-ND	Stand-Alone CAN Controller	28-SOIC	5.43	4.35	3.38
SJA1000TD-T	568-1123-1-ND	Stand-Alone CAN Controller	28-SOIC	5.43	4.35	3.38
SJA1000TD-T	568-1123-2-ND	Stand-Alone CAN Controller	28-SOIC	3076.32/1,000		
TJA1020TD	568-3513-5-ND	LIN Transceiver	8-SOIC	1.30	1.09	.87
TJA1040TD-T	568-1149-1-ND	High Speed CAN Transceiver	8-SOIC	1.32	1.06	.80
TJA1040TD-T	568-1149-2-ND	High Speed CAN Transceiver	8-SOIC	1693.12/2,500		
TJA1041T/N1,512	568-4328-5-ND	High Speed CAN Transceiver ***NEW!***	14-SOIC	2.16	1.73	1.30
TJA1041TD	568-1150-5-ND	High Speed CAN Transceiver	14-SOIC	2.16	1.73	1.30
TJA1050TD-T	568-1151-1-ND	High Speed CAN Transceiver	8-SOIC	1.29	1.08	.86
TJA1050TD-T	568-1151-2-ND	High Speed CAN Transceiver	8-SOIC	1394.25/2,500		
TJA1053TD	568-3514-5-ND	Fault-Tolerant CAN Transceiver	14-SOIC	3.08	2.47	1.92
TJA1054ATD-T	568-1152-1-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2.05	1.64	1.23
TJA1054ATD-T	568-1152-2-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2620.80/2,500		
TJA1054TD	568-1153-5-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2.05	1.64	1.23
TJA1054TD-T	568-2061-1-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2.00	1.60	1.20
TJA1054TD-T	568-2061-2-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2560.00/2,500		
I^{2}C						
P82B96DP-T	568-3197-1-ND	Dual Bi-Directional Bus Buffer	8-TSSOP	3.08	2.47	1.92
P82B96DP-T	568-3197-2-ND	Dual Bi-Directional Bus Buffer	8-TSSOP	4310.46/2,500		
P82B96PN	568-1008-5-ND	Dual Bi-Directional Bus Buffer	8-Dip	3.08	2.47	1.92
P82B96TD	568-3982-5-ND	Dual Bi-Directional Bus Buffer	8-SOIC	3.08	2.47	1.92
P82B96TD-T	568-1009-1-ND	Dual Bi-Directional Bus Buffer	8-SOIC	3.08	2.47	1.92
P82B96TD-T	568-1009-2-ND	Dual Bi-Directional Bus Buffer	8-SOIC	4310.46/2,500		
P82B715PN	568-1006-5-ND	I^{2}C Bus Extender	8-Dip	3.32	2.66	2.07
P82B715TD	568-3981-5-ND	I^{2}C Bus Extender	8-SOIC	3.32	2.66	2.07
P82B715TD-T	568-1007-1-ND	I^{2}C Bus Extender	8-SOIC	3.32	2.66	2.07
P82B715TD-T	568-1007-2-ND	I^{2}C Bus Extender	8-SOIC	4642.16/2,500		
PCA8550PW-T	568-3633-1-ND	4-Bit Multiplexed/1-Bit Latched 5-Bit I^{2}C EEPROM Dip Switch	16-TSSOP	1.36	1.14	.91
PCA8550PW-T	568-3633-2-ND	4-Bit Multiplexed/1-Bit Latched 5-Bit I^{2}C EEPROM Dip Switch	16-TSSOP	1470.95/2,500		
PCA8574AD	568-4235-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	16-SOIC	1.33	1.06	.80
PCA8574AN	568-4236-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	16-Dip	1.33	1.06	.80
PCA8574APW	568-4237-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	16-TSSOP	1.33	1.06	.80
PCA8574ATS	568-4238-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	20-SSOP	1.33	1.06	.80
PCA8574D	568-4239-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	16-SOIC	1.33	1.06	.80
PCA8574N	568-4240-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	16-Dip	1.33	1.06	.80
PCA8574PW	568-4241-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	16-TSSOP	1.33	1.06	.80
PCA8574TS	568-4242-5-ND	Remote 8-Bit I/O Expander for I^{2}C Bus with Interrupt	20-SSOP	1.33	1.06	.80
PCA8575D	568-4229-5-ND	Remote 16-Bit I/O Expander for I^{2}C Bus with Interrupt	24-SOIC	1.70	1.36	1.02
PCA8575PW	568-4230-5-ND	Remote 16-Bit I/O Expander for I^{2}C Bus with Interrupt	24-TSSOP	1.70	1.36	1.02
PCA8581CTD-T	568-3634-1-ND	8-Bit EEPROM with I^{2}C Bus Interface	8-SOIC	1.05	.88	.70
PCA8581CTD-T	568-3634-2-ND	8-Bit EEPROM with I^{2}C Bus Interface	8-SOIC	1137.50/2,500		
PCA9306D-T	568-4215-1-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-SOIC	.84	.64	.48
PCA9306D-T	568-4215-2-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-SOIC	684.13/2,500		
PCA9306DC-G	568-4213-1-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-VSSOP	.79	.66	.53
PCA9306DC-G	568-4213-2-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-VSSOP	1026.48/3,000		
PCA9306DP-T	568-4214-1-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-TSSOP	.84	.64	.48
PCA9306DP-T	568-4214-2-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-TSSOP	684.13/2,500		
PCA9306DP1-G	568-4243-1-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-TSSOP	.84	.64	.48
PCA9306DP1-G	568-4243-2-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-TSSOP	820.95/3,000		
PCA9306GM-G	568-4187-1-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-XQFN	.84	.64	.48
PCA9306GM-G	568-4187-2-ND	Dual Bi-Directional I^{2}C Bus and SMBus Voltage Level Translator	8-XQFN	1094.60/4,000		
PCA9500BS-T	568-3351-1-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	16-HVQFN	1.87	1.50	1.13
PCA9500BS-T	568-3351-2-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	16-HVQFN	5605.50/6,000		
PCA9500D	568-1024-5-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	16-SOIC	1.87	1.50	1.13
PCA9500PW	568-1025-5-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	16-TSSOP	1.87	1.50	1.13
PCA9501BS-T	568-3352-1-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	20-HVQFN	1.97	1.58	1.19
PCA9501BS-T	568-3352-2-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	20-HVQFN	5921.25/6,000		
PCA9501PW	568-1026-5-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	20-TSSOP	1.97	1.58	1.19
PCA9502BS-S	568-3635-ND	8-Bit I/O Expander with I^{2}C-Bus/SPI Interface	24-HVQFN	1.74	1.39	1.05
PCA9505DGG	568-4244-5-ND	40-Bit I^{2}C Bus I/O Port	56-TSSOP	4.50	3.60	2.80
PCA9506BS-T	568-3636-1-ND	40-Bit I^{2}C Bus I/O Port	56-HVQFN	4.50	3.60	2.80
PCA9506BS-T	568-3636-2-ND	40-Bit I^{2}C Bus I/O Port	56-HVQFN	5100.00/2,000		
PCA9506DGG	568-3354-5-ND	40-Bit I^{2}C Bus I/O Port	56-TSSOP	4.50	3.60	2.80
PCA9509DP-T	568-3356-1-ND	Level Translating I^{2}C Bus/SMBus Repeater	8-TSSOP	1.75	1.40	1.05
PCA9509DP-T	568-3356-2-ND	Level Translating I^{2}C Bus/SMBus Repeater	8-TSSOP	2240.00/2,500		
PCA9509GM-G	568-4288-1-ND	Level Translating I^{2}C Bus/SMBus Repeater	8-XQFN	1.58	1.27	.95
PCA9509GM-G	568-4288-2-ND	Level Translating I^{2}C Bus/SMBus Repeater	8-XQFN	3233.79/4,000		
PCA9510AD	568-3357-5-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.37	1.90	1.48
PCA9510ADP-T	568-3358-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2.37	1.90	1.48
PCA9510ADP-T	568-3358-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	3315.69/2,500		
PCA9510DP-T	568-1904-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2.25	1.80	1.40
PCA9511AD	568-3359-5-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	1.84	1.48	1.11
PCA9511ADP-T	568-3360-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	1.84	1.48	1.11
PCA9511ADP-T	568-3360-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2357.76/2,500		
PCA9511DP-T	568-1028-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	1.85	1.48	1.11
PCA9512AD	568-3361-5-ND	Level Shifting Hot Swap I^{2}C/SMBus Buffer	8-SOIC	1.84	1.48	1.11
PCA9512ADP-T	568-3362-1-ND	Level Shifting Hot Swap I^{2}C/SMBus Buffer	8-TSSOP	1.84	1.48	1.11
PCA9512ADP-T	568-3362-2-ND	Level Shifting Hot Swap I^{2}C/SMBus Buffer	8-TSSOP	2357.76/2,500		
PCA9512D-T	568-1906-1-ND	Level Shifting Hot Swap I^{2}C/SMBus Buffer	8-SOIC	1.85	1.48	1.11
PCA9512DP-T	568-1907-1-ND	Level Shifting Hot Swap I^{2}C/SMBus Buffer	8-TSSOP	1.85	1.48	1.11
PCA9513AD	568-3363-5-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.37	1.90	1.48
PCA9513ADP-T	568-3364-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2.37	1.90	1.48
PCA9513ADP-T	568-3364-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	3315.69/2,500		
PCA9513D-T	568-1908-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.25	1.80	1.40
PCA9514AD	568-3365-5-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.37	1.90	1.48
PCA9514ADP-T	568-3366-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2.37	1.90	1.48
PCA9514ADP-T	568-3366-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	3315.69/2,500		
PCA9515AD	568-1753-5-ND	I^{2}C Bus Repeater	8-SOIC	1.58	1.27	.95
PCA9515AD-T	568-1031-1-ND	I^{2}C Bus Repeater	8-SOIC	1.58	1.27	.95
PCA9515AD-T	568-1031-2-ND	I^{2}C Bus Repeater	8-SOIC	2021.12/2,500		
PCA9515AD/G-T	568-1824-1-ND	I^{2}C Bus Repeater	8-SOIC	1.50	1.20	.90
PCA9515D	568-1033-5-ND	I^{2}C Bus Repeater	8-SOIC	1.50	1.20	.90
PCA9516AD	568-1035-5-ND	5-Channel I^{2}C Hub	16-SOIC	1.84	1.48	1.11
PCA9516AD-T	568-1826-1-ND	5-Channel I^{2}C Hub	16-SOIC	1.84	1.48	1.11
PCA9516AD-T	568-1826-2-ND	5-Channel I^{2}C Hub	16-SOIC	2357.76/2,500		

(Continued)

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCA9516APW	568-1036-5-ND	5-Channel I^{2}C Hub	16-TSSOP	1.84	1.48	1.11
PCA9516APW-T	568-1827-1-ND	5-Channel I^{2}C Hub	16-TSSOP	1.84	1.48	1.11
PCA9516APW-T	568-1827-2-ND	5-Channel I^{2}C Hub	16-TSSOP	2357.76/2,500		
PCA9517D-T	568-1828-1-ND	Level Translating I^{2}C Bus Repeater	8-SOIC	1.58	1.27	.95
PCA9517D-T	568-1828-2-ND	Level Translating I^{2}C Bus Repeater	8-SOIC	2021.12/2,500		
PCA9517DP-T	568-1829-1-ND	Level Translating I^{2}C Bus Repeater	8-TSSOP	1.58	1.27	.95
PCA9517DP-T	568-1829-2-ND	Level Translating I^{2}C Bus Repeater	8-TSSOP	2021.12/2,500		
PCA9518APW	568-4245-5-ND	Expandable 5-Channel I^{2}C Bus Hub	20-TSSOP	2.37	1.90	1.43
PCA9518D	568-3367-5-ND	Expandable 5-Channel I^{2}C Bus Hub	20-SOIC	2.37	1.90	1.43
PCA9518PW	568-1038-5-ND	Expandable 5-Channel I^{2}C Bus Hub	20-TSSOP	2.37	1.90	1.43
PCA9519BS-T	568-4216-1-ND	4-Channel Level Translating I^{2}C Bus/SMBus Repeater	24-HVQFN	3.32	2.66	2.07
PCA9519BS-T	568-4216-2-ND	4-Channel Level Translating I^{2}C Bus/SMBus Repeater	24-HVQFN	11052.75/6,000		
PCA9519PW	568-4217-5-ND	4-Channel Level Translating I^{2}C Bus/SMBus Repeater	20-TSSOP	3.32	2.66	2.07
PCA9530D-T	568-1830-1-ND	2-Bit I^{2}C LED Dimmer	8-SOIC	1.45	1.16	.87
PCA9530D-T	568-1830-2-ND	2-Bit I^{2}C LED Dimmer	8-SOIC	1852.48/2,500		
PCA9530DP-T	568-1831-1-ND	2-Bit I^{2}C LED Dimmer	8-TSSOP	1.45	1.16	.87
PCA9530DP-T	568-1831-2-ND	2-Bit I^{2}C LED Dimmer	8-TSSOP	1852.48/2,500		
PCA9531BS-T	568-3368-1-ND	8-Bit I^{2}C LED Dimmer	16-HVQFN	1.84	1.48	1.11
PCA9531BS-T	568-3368-2-ND	8-Bit I^{2}C LED Dimmer	16-HVQFN	5526.00/6,000		
PCA9531D	568-3369-5-ND	8-Bit I^{2}C LED Dimmer	16-SOIC	1.84	1.48	1.11
PCA9531PW	568-3370-5-ND	8-Bit I^{2}C LED Dimmer	16-TSSOP	1.84	1.48	1.11
PCA9532BS-T	568-3371-1-ND	16-Bit I^{2}C LED Dimmer	24-HVQFN	1.66	1.33	1.00
PCA9532BS-T	568-3371-2-ND	16-Bit I^{2}C LED Dimmer	24-HVQFN	4974.00/6,000		
PCA9533D/01	568-3372-5-ND	4-Bit I^{2}C LED Dimmer	8-SOIC	1.45	1.16	.87
PCA9533DP/01-T	568-3374-1-ND	4-Bit I^{2}C LED Dimmer	8-TSSOP	1.45	1.16	.87
PCA9533DP/01-T	568-3374-2-ND	4-Bit I^{2}C LED Dimmer	8-TSSOP	1852.48/2,500		
PCA9533DP/02-T	568-3375-1-ND	4-Bit I^{2}C LED Dimmer	8-TSSOP	1.38	1.10	.83
PCA9534BS-T	568-1832-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	1.32	1.06	.79
PCA9534BS-T	568-1832-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	3947.25/6,000		
PCA9534D-T	568-1833-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-SOIC	1.32	1.06	.79
PCA9534D-T	568-1833-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-SOIC	684.19/1,000		
PCA9534PW-T	568-1834-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-TSSOP	1.32	1.06	.79
PCA9534PW-T	568-1834-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-TSSOP	1684.16/2,500		
PCA9535BS-T	568-3376-1-ND	16-Bit I^{2}C/SMBus I/O Port	24-HVQFN	1.71	1.37	1.03
PCA9535BS-T	568-3376-2-ND	16-Bit I^{2}C/SMBus I/O Port	24-HVQFN	5131.50/6,000		
PCA9535D	568-3377-5-ND	16-Bit I^{2}C/SMBus I/O Port	24-SOIC	1.71	1.37	1.03
PCA9535PW	568-1041-5-ND	16-Bit I^{2}C/SMBus I/O Port	24-TSSOP	1.71	1.37	1.03
PCA9536D-T	568-1835-1-ND	4-Bit I^{2}C/SMBus I/O Port	8-SOIC	1.20	1.00	.80
PCA9536D-T	568-1835-2-ND	4-Bit I^{2}C/SMBus I/O Port	8-SOIC	1300.00/2,500		
PCA9536DP-T	568-1836-1-ND	4-Bit I^{2}C/SMBus I/O Port	8-TSSOP	1.20	1.00	.80
PCA9536DP-T	568-1836-2-ND	4-Bit I^{2}C/SMBus I/O Port	8-TSSOP	1300.00/2,500		
PCA9536TK-T	568-4079-1-ND	4-Bit I^{2}C/SMBus I/O Port	8-HVSON	1.20	1.00	.80
PCA9536TK-T	568-4079-2-ND	4-Bit I^{2}C/SMBus I/O Port	8-HVSON	3060.00/6,000		
PCA9537DP-T	568-1837-1-ND	4-Bit I^{2}C/SMBus I/O Port	10-TSSOP	1.42	1.19	.95
PCA9537DP-T	568-1837-2-ND	4-Bit I^{2}C/SMBus I/O Port	10-TSSOP	1539.53/2,500		
PCA9538BS-T	568-1838-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	1.45	1.16	.87
PCA9538BS-T	568-1838-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	4341.75/6,000		
PCA9538D-T	568-1839-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-SOIC	1.45	1.16	.87
PCA9538D-T	568-1839-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-SOIC	752.57/1,000		
PCA9538PW-T	568-1840-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-TSSOP	1.45	1.16	.87
PCA9538PW-T	568-1840-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-TSSOP	1852.48/2,500		
PCA9539BS-T	568-1841-1-ND	16-Bit I^{2}C/SMBus I/O Port	24-HVQFN	1.71	1.37	1.03
PCA9539BS-T	568-1841-2-ND	16-Bit I^{2}C/SMBus I/O Port	24-HVQFN	5131.50/6,000		
PCA9539D-T	568-1842-1-ND	16-Bit I^{2}C/SMBus I/O Port	24-SOIC	1.71	1.37	1.03
PCA9539D-T	568-1842-2-ND	16-Bit I^{2}C/SMBus I/O Port	24-SOIC	889.46/1,000		
PCA9539PW-T	568-1843-1-ND	16-Bit I^{2}C/SMBus I/O Port	24-TSSOP	1.71	1.37	1.03
PCA9539PW-T	568-1843-2-ND	16-Bit I^{2}C/SMBus I/O Port	24-TSSOP	2189.44/2,500		
PCA9540BD	568-1042-5-ND	2-Channel I^{2}C Mux	8-SOIC	1.48	1.24	.99
PCA9540BD-T	568-1844-1-ND	2-Channel I^{2}C Mux	8-SOIC	1.48	1.24	.99
PCA9540BD-T	568-1844-2-ND	2-Channel I^{2}C Mux	8-SOIC	1607.78/2,500		
PCA9540BDP-T	568-1845-1-ND	2-Channel I^{2}C Mux	8-TSSOP	1.48	1.24	.99
PCA9540BDP-T	568-1845-2-ND	2-Channel I^{2}C Mux	8-TSSOP	1607.78/2,500		
PCA9541BS/01-T	568-1846-1-ND	2-to-1 I^{2}C Master Selector	16-HVQFN	1.97	1.58	1.19
PCA9541BS/01-T	568-1846-2-ND	2-to-1 I^{2}C Master Selector	16-HVQFN	5921.25/6,000		
PCA9541BS/02-T	568-1847-1-ND	2-to-1 I^{2}C Master Selector	16-HVQFN	2.13	1.70	1.28
PCA9541BS/03-T	568-1848-1-ND	2-to-1 I^{2}C Master Selector	16-HVQFN	1.97	1.58	1.19
PCA9541BS/03-T	568-1848-2-ND	2-to-1 I^{2}C Master Selector	16-HVQFN	5921.25/6,000		
PCA9541D/01-T	568-1849-1-ND	2-to-1 I^{2}C Master Selector	16-SOIC	1.97	1.58	1.19
PCA9541D/01-T	568-1849-2-ND	2-to-1 I^{2}C Master Selector	16-SOIC	2526.40/2,500		
PCA9541D/02-T	568-1850-1-ND	2-to-1 I^{2}C Master Selector	16-SOIC	2.13	1.70	1.28
PCA9541D/03-T	568-1851-1-ND	2-to-1 I^{2}C Master Selector	16-SOIC	1.97	1.58	1.19
PCA9541D/03-T	568-1851-2-ND	2-to-1 I^{2}C Master Selector	16-SOIC	2526.40/2,500		
PCA9541PW/01	568-1043-5-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	1.97	1.58	1.19
PCA9541PW/01-T	568-1852-1-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	1.97	1.58	1.19
PCA9541PW/01-T	568-1852-2-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	2526.40/2,500		
PCA9541PW/02-T	568-1853-1-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	2.13	1.70	1.28
PCA9541PW/03	568-1044-5-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	1.97	1.58	1.19
PCA9541PW/03-T	568-1854-1-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	1.97	1.58	1.19
PCA9541PW/03-T	568-1854-2-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	2526.40/2,500		
PCA9542AD-T	568-1855-1-ND	2-Channel I^{2}C Mux	14-SOIC	1.66	1.33	1.00
PCA9542AD-T	568-1855-2-ND	2-Channel I^{2}C Mux	14-SOIC	2122.24/2,500		
PCA9542APW-T	568-1856-1-ND	2-Channel I^{2}C Mux	14-TSSOP	1.66	1.33	1.00
PCA9542APW-T	568-1856-2-ND	2-Channel I^{2}C Mux	14-TSSOP	2122.24/2,500		
PCA9543AD-T	568-1857-1-ND	2-Channel I^{2}C Switch	14-SOIC	1.66	1.33	1.00
PCA9543AD-T	568-1857-2-ND	2-Channel I^{2}C Switch	14-SOIC	2122.24/2,500		
PCA9543APW-T	568-1858-1-ND	2-Channel I^{2}C Switch	14-TSSOP	1.66	1.33	1.00
PCA9543APW-T	568-1858-2-ND	2-Channel I^{2}C Switch	14-TSSOP	2122.24/2,500		
PCA9544ABS-T	568-1859-1-ND	4-Channel I^{2}C Mux	20-HVQFN	1.37	1.10	.83
PCA9544ABS-T	568-1859-2-ND	4-Channel I^{2}C Mux	20-HVQFN	4105.50/6,000		
PCA9544AD-T	568-1860-1-ND	4-Channel I^{2}C Mux	20-SOIC	1.37	1.10	.83
PCA9544AD-T	568-1860-2-ND	4-Channel I^{2}C Mux	20-SOIC	1423.24/2,000		
PCA9544APW	568-1045-5-ND	4-Channel I^{2}C Mux	20-TSSOP	1.37	1.10	.83
PCA9544APW-T	568-1861-1-ND	4-Channel I^{2}C Mux	20-TSSOP	1.37	1.10	.83
PCA9544APW-T	568-1861-2-ND	4-Channel I^{2}C Mux	20-TSSOP	1751.68/2,500		
PCA9544APW/G-T	568-1862-1-ND	4-Channel I^{2}C Mux	20-TSSOP	1.86	1.49	1.12
PCA9544APW/G-T	568-1862-2-ND	4-Channel I^{2}C Mux	20-TSSOP	2374.40/2,500		
PCA9545ABS-T	568-1863-1-ND	4-Channel I^{2}C Switch	20-HVQFN	1.50	1.20	.90
PCA9545ABS-T	568-1863-2-ND	4-Channel I^{2}C Switch	20-HVQFN	4500.00/6,000		
PCA9545AD-T	568-1864-1-ND	4-Channel I^{2}C Switch	20-SOIC	1.50	1.20	.90
PCA9545AD-T	568-1864-2-ND	4-Channel I^{2}C Switch	20-SOIC	1560.00/2,000		
PCA9545APW-T	568-1865-1-ND	4-Channel I^{2}C Switch	20-TSSOP	1.50	1.20	.90
PCA9545APW-T	568-1865-2-ND	4-Channel I^{2}C Switch	20-TSSOP	1920.00/2,500		
PCA9545BPW-T	568-4246-1-ND	4-Ch. I^{2}C Bus Switch with Interrupt Logic and Reset	20-TSSOP	1.50	1.20	.90
PCA9545BPW-T	568-4246-2-ND	4-Ch. I^{2}C Bus Switch with Interrupt Logic and Reset	20-TSSOP	1920.00/2,500		
PCA9545CPW-T	568-4247-1-ND	4-Ch. I^{2}C Bus Switch with Interrupt Logic and Reset	20-TSSOP	1.50	1.20	.90
PCA9545CPW-T	568-4247-2-ND	4-Ch. I^{2}C Bus Switch with Interrupt Logic and Reset	20-TSSOP	1920.00/2,500		
PCA9546ABS-T	568-3378-1-ND	4-Channel I^{2}C Switch with Reset	16-HVQFN	1.48	1.24	.99
PCA9546ABS-T	568-3378-2-ND	4-Channel I^{2}C Switch with Reset	16-HVQFN	3784.46/6,000		
PCA9546AD-T	568-2022-1-ND	4-Channel I^{2}C Switch with Reset	16-SOIC	1.48	1.24	.99
PCA9546AD-T	568-2022-2-ND	4-Channel I^{2}C Switch with Reset	16-SOIC	1607.78/2,500		
PCA9546APW-T	568-2023-1-ND	4-Channel I^{2}C Switch with Reset	16-TSSOP	1.48	1.24	.99
PCA9546APW-T	568-2023-2-ND	4-Channel I^{2}C Switch with Reset	16-TSSOP	1607.78/2,500		
PCA9547BS-T	568-3379-1-ND	8-Channel I^{2}C Mux	24-HVQFN	2.24	1.79	1.35
PCA9547BS-T	568-3379-2-ND	8-Channel I^{2}C Mux	24-HVQFN	6710.25/6,000		
PCA9547D	568-3380-5-ND	8-Channel I^{2}C Mux	24-SOIC	2.24	1.79	1.35
PCA9547PW	568-3381-5-ND	8-Channel I^{2}C Mux	24-TSSOP	2.24	1.79	1.35
PCA9548ABS-T	568-3382-1-ND	8-Channel I^{2}C Switch	24-HVQFN	2.24	1.79	1.35
PCA9548ABS-T	568-3382-2-ND	8-Channel I^{2}C Switch	24-HVQFN	6710.25/6,000		
PCA9548AD	568-3383-5-ND	8-Channel I^{2}C Switch	24-SOIC	2.24	1.79	1.35
PCA9548APW	568-3384-5-ND	8-Channel I^{2}C Switch	24-TSSOP	2.24	1.79	1.35
PCA9549D	568-3385-5-ND	Octal Bus Switch	24-SOIC	1.71	1.37	1.03
PCA9549D-T	568-4218-1-ND	Octal Bus Switch	24-SOIC	1.71	1.37	1.03
PCA9549D-T	568-4218-2-ND	Octal Bus Switch	24-SOIC	889.46/1,000		
PCA9549PW	568-3386-5-ND	Octal Bus Switch	24-TSSOP	1.71	1.37	1.03
PCA9550DP-T	568-3387-1-ND	2-Bit I^{2}C LED Driver	8-TSSOP	1.45	1.16	.87
PCA9550DP-T	568-3387-2-ND	2-Bit I^{2}C LED Driver	8-TSSOP	1852.48/2,500		
PCA9551BS-T	568-3388-1-ND	8-Bit I^{2}C LED Driver	16-HVQFN	1.84	1.48	1.11
PCA9551BS-T	568-3388-2-ND	8-Bit I^{2}C LED Driver	16-HVQFN	5526.00/6,000		
PCA9552BS-T	568-3389-1-ND	16-Bit I^{2}C Bus LED Driver	24-HVQFN	2.37	1.90	1.43
PCA9552BS-T	568-3389-2-ND	16-Bit I^{2}C Bus LED Driver	24-HVQFN	7105.50/6,000		
PCA9553D/01	568-3390-5-ND	4-Bit I^{2}C Bus LED Driver	8-SOIC	1.45	1.16	.87
PCA9553DP/01-T	568-3392-1-ND	4-Bit I^{2}C Bus LED Driver	8-TSSOP	1.45	1.16	.87
PCA9553DP/01-T	568-3392-2-ND	4-Bit I^{2}C Bus LED Driver	8-TSSOP	1852.48/2,500		
PCA9553DP/02-T	568-3393-1-ND	4-Bit I^{2}C Bus LED Driver	8-TSSOP	1.38	1.10	.83
PCA9553TK-T	568-4219-1-ND	4-Bit I^{2}C Bus LED Driver	8-HVSON	1.38	1.10	.83
PCA9553TK-T	568-4219-2-ND	4-Bit I^{2}C Bus LED Driver	8-HVSON	4125.00/6,000		
PCA9554ABS-T	568-3394-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	1.32	1.06	.79
PCA9554ABS-T	568-3394-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	3947.25/6,000		
PCA9554BS-T	568-3397-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	1.32	1.06	.79
PCA9554BS-T	568-3397-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	3947.25/6,000		
PCA9557BS-T	568-3398-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	1.32	1.06	.79
PCA9557BS-T	568-3398-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	3947.25/6,000		
PCA9558PW	568-3399-5-ND	8-Bit I^{2}C/SMBus I/O Port	28-TSSOP	2.24	1.79	1.35
PCA9559PW	568-3400-5-ND	6-Bit I^{2}C EEPROM Dip Switch	20-TSSOP	1.32	1.06	.79
PCA9560PW	568-3402-5-ND	I^{2}C EEPROM Dip Switch	20-TSSOP	1.32	1.06	.79
PCA9561PW	568-3404-5-ND	Quad 6-Bit Mux I^{2}C EEPROM Dip Switch	20-TSSOP	1.32	1.06	.79
PCA9564BS-T	568-3405-1-ND	Parallel Bus to I^{2}C Bus Controller	20-HVQFN	2.25	1.80	1.40
PCA9564BS-T	568-3405-2-ND	Parallel Bus to I^{2}C Bus Controller	20-HVQFN	7500.00/6,000		
PCA9564D	568-1062-5-ND	Parallel Bus to I^{2}C Bus Controller	20-SOIC	2.25	1.80	1.40
PCA9564N	568-2028-5-ND	Parallel Bus to I^{2}C Bus Controller	20-Dip	2.25	1.80	1.40
PCA9564PW	568-1063-5-ND	Parallel Bus to I^{2}C Bus Controller	20-TSSOP	2.25	1.80	1.40
PCA9633BS-T	568-3234-1-ND	4-Bit I^{2}C Bus LED Driver	16-HVQFN	1.71	1.37	1.03
PCA9633BS-T	568-3234-2-ND	4-Bit I^{2}C Bus LED Driver	16-HVQFN	5131.50/6,000		
PCA9633D16	568-3235-5-ND	4-Bit I^{2}C Bus LED Driver	16-SOIC	1.50	1.20	.90
PCA9633DP1-T	568-3236-1-ND	4-Bit I^{2}C Bus LED Driver	8-TSSOP	1.32	1.06	.79
PCA9633DP1-T	568-3236-2-ND	4-Bit I^{2}C Bus LED Driver	8-TSSOP	1684.16/2,500		
PCA9633DP2-T	568-3237-1-ND	4-Bit I^{2}C Bus LED Driver	10-TSSOP	1.37	1.10	.83
PCA9633DP2-T	568-3237-2-ND	4-Bit I^{2}C Bus LED Driver	10-TSSOP	1751.68/2,500		
PCA9633PW	568-3238-5-ND	4-Bit I^{2}C Bus LED Driver	16-TSSOP	1.50	1.20	.90
PCA9633TK-T	568-3239-1-ND	4-Bit I^{2}C Bus LED Driver	8-HVSON	1.32	1.06	.79
PCA9633TK-T	568-3239-2-ND	4-Bit I^{2}C Bus LED Driver	8-HVSON	3947.25/6,000		
PCA9634D-T	568-4065-1-ND	8-Bit Fm+ I^{2}C Bus LED Driver	20-SOIC	1.84	1.48	1.11
PCA9634D-T	568-4065-2-ND	8-Bit Fm+ I^{2}C Bus LED Driver	20-SOIC	1915.68/2,000		
PCA9634PW-T	568-4066-1-ND	8-Bit Fm+ I^{2}C Bus LED Driver	20-TSSOP	1.84	1.48	1.11
PCA9634PW-T	568-4066-2-ND	8-Bit Fm+ I^{2}C Bus LED Driver	20-TSSOP	2357.76/2,500		
PCA9635PW-T	568-4067-1-ND	16-Bit Fm+ I^{2}C Bus LED Driver	28-TSSOP	2.37	1.90	1.43
PCA9635PW-T	568-4067-2-ND	16-Bit Fm+ I^{2}C Bus LED Driver	28-TSSOP	3031.68/2,500		
PCA9665D-T	568-4068-1-ND	Fm+ Parallel Bus to I^{2}C Bus Controller	20-SOIC	2.25	1.80	1.40
PCA9665D-T	568-4068-2-ND	Fm+ Parallel Bus to I^{2}C Bus Controller	20-SOIC	2550.00/2,000		
PCA9665N	568-4069-5-ND	Fm+ Parallel Bus to I^{2}C Bus Controller	20-Dip	2.34	1.88	1.46
PCA9665PW-T	568-4070-1-ND	Fm+ Parallel Bus to I^{2}C Bus Controller	20-TSSOP	2.25	1.80	1.40
PCA9665PW-T	568-4070-2-ND	Fm+ Parallel Bus to I^{2}C Bus Controller	20-TSSOP	3150.00/2,500		
PCA9670D-T	568-4188-1-ND	Remote 8-Bit I/O Expander	16-SOIC	2.16	1.73	1.30
PCA9670D-T	568-4188-2-ND	Remote 8-Bit I/O Expander	16-SOIC	1122.16/1,000		
PCA9670PW	568-4189-5-ND	Remote 8-Bit I/O Expander	16-TSSOP	2.16	1.73	1.30
PCA9671D-T	568-4192-1-ND	Remote 16-Bit I/O Expander	24-SOIC	2.49	1.99	1.55
PCA9671D-T	568-4192-2-ND	Remote 16-Bit I/O Expander	24-SOIC	1409.26/1,000		
PCA9671DB	568-4190-5-ND	Remote 16-Bit I/O Expander	24-SSOP	2.49	1.99	1.55
PCA9671DK-T	568-4191-1-ND	Remote 16-Bit I/O Expander	24-QSOP	2.49	1.99	1.55
PCA9671DK-T	568-4191-2-ND	Remote 16-Bit I/O Expander	24-QSOP	3481.70/2,500		
PCA9671PW	568-4193-5-ND	Remote 16-Bit I/O Expander	24-TSSOP	2.49	1.99	1.55
PCA9672D-T	568-4195-1-ND	Remote 8-Bit I/O Expander	16-SOIC	2.16	1.73	1.30
PCA9672D-T	568-4195-2-ND	Remote 8-Bit I/O Expander	16-SOIC	1122.16/1,000		
PCA9672PW	568-4196-5-ND	Remote 8-Bit I/O Expander	16-TSSOP	2.16	1.73	1.30
PCA9673D-T	568-4199-1-ND	Remote 16-Bit I/O Expander	24-SOIC	2.49	1.99	1.55
PCA9673D-T	568-4199-2-ND	Remote 16-Bit I/O Expander	24-SOIC	1409.26/1,000		
PCA9673DB	568-4197-5-ND	Remote 16-Bit I/O Expander	24-SSOP	2.49	1.99	1.55
PCA9673DK-T	568-4198-1-ND	Remote 16-Bit I/O Expander	24-QSOP	2.49	1.99	1.55
PCA9673DK-T	568-4198-2-ND	Remote 16-Bit I/O Expander	24-QSOP	3481.70/2,500		
PCA9673PW	568-4200-5-ND	Remote 16-Bit I/O Expander	24-TSSOP	2.49	1.99	1.55
PCA9674ABS-T	568-4221-1-ND	Remote 8-Bit I/O Expander	16-HVQFN	2.16	1.73	1.30
PCA9674ABS-T	568-4221-2-ND	Remote 8-Bit I/O Expander	16-HVQFN	6474.00/6,000		
PCA9674AD-T	568-4071-1-ND	Remote 8-Bit I/O Expander	16-SOIC	2.16	1.73	1.30
PCA9674AD-T	568-4071-2-ND	Remote 8-Bit I/O Expander	16-SOIC	1122.16/1,000		
PCA9674AN	568-4072-5-ND	Remote 8-Bit I/O Expander	16-Dip	2.16	1.73	1.30

(Continued)

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA9674APW-T	568-4073-1-ND	Remote 8-Bit I/O Expander	16-TSSOP	2.16	1.73	1.30
PCA9674APW-T	568-4073-2-ND	Remote 8-Bit I/O Expander	16-TSSOP	2762.24/2,500		
PCA9674ATS-T	568-4074-1-ND	Remote 8-Bit I/O Expander	20-SSOP	2.16	1.73	1.30
PCA9674ATS-T	568-4074-2-ND	Remote 8-Bit I/O Expander	20-SSOP	2762.24/2,500		
PCA9674BS-T	568-4222-1-ND	Remote 8-Bit I/O Expander	16-HVQFN	2.16	1.73	1.30
PCA9674BS-T	568-4222-2-ND	Remote 8-Bit I/O Expander	16-HVQFN	6474.00/6,000		
PCA9674D-T	568-4075-1-ND	Remote 8-Bit I/O Expander	16-SOIC	2.16	1.73	1.30
PCA9674D-T	568-4075-2-ND	Remote 8-Bit I/O Expander	16-SOIC	1122.16/1,000		
PCA9674N	568-4076-5-ND	Remote 8-Bit I/O Expander	16-Dip	2.16	1.73	1.30
PCA9674PW-T	568-4077-1-ND	Remote 8-Bit I/O Expander	16-TSSOP	2.16	1.73	1.30
PCA9674PW-T	568-4077-2-ND	Remote 8-Bit I/O Expander	16-TSSOP	2762.24/2,500		
PCA9674TS-T	568-4078-1-ND	Remote 8-Bit I/O Expander	20-SSOP	2.16	1.73	1.30
PCA9674TS-T	568-4078-2-ND	Remote 8-Bit I/O Expander	20-SSOP	2762.24/2,500		
PCA9675BS-T	568-4201-1-ND	Remote 16-Bit I/O Expander	24-HVQFN	2.49	1.99	1.55
PCA9675BS-T	568-4201-2-ND	Remote 16-Bit I/O Expander	24-HVQFN	8289.75/6,000		
PCA9675D-T	568-4204-1-ND	Remote 16-Bit I/O Expander	24-SOIC	2.49	1.99	1.55
PCA9675D-T	568-4204-2-ND	Remote 16-Bit I/O Expander	24-SOIC	1409.26/1,000		
PCA9675DB	568-4202-5-ND	Remote 16-Bit I/O Expander	24-SSOP	2.49	1.99	1.55
PCA9675DK-T	568-4203-1-ND	Remote 16-Bit I/O Expander	24-QSOP	2.49	1.99	1.55
PCA9675DK-T	568-4203-2-ND	Remote 16-Bit I/O Expander	24-QSOP	3481.70/2,500		
PCA9675PW	568-4248-5-ND	Remote 16-Bit I/O Expander	24-TSSOP	2.49	1.99	1.55
PCA9698BS-T	568-3240-1-ND	40-Bit I^2C Bus Advanced I/O Port	56-HVQFN	5.35	4.29	3.34
PCA9698BS-T	568-3240-2-ND	40-Bit I^2C Bus Advanced I/O Port	56-HVQFN	6066.20/2,000		
PCA9698DGG	568-3241-5-ND	40-Bit I^2C Bus Advanced I/O Port	56-TSSOP	4.95	3.96	3.08
PCA9701D-T	568-4289-1-ND	18V Tolerant SPI 16-Bit GPI	24-SOIC	2.11	1.69	1.27
PCA9701D-T	568-4289-2-ND	18V Tolerant SPI 16-Bit GPI	24-SOIC	1094.73/1,000		
PCA9701PW-T	568-4290-1-ND	18V Tolerant SPI 16-Bit GPI	24-TSSOP	2.11	1.69	1.27
PCA9701PW-T	568-4290-2-ND	18V Tolerant SPI 16-Bit GPI	24-TSSOP	2694.72/2,500		
PCF8575CTSDB	568-3528-5-ND	16-Bit I/O Expander for I^2C Bus	24-SSOP	1.95	1.56	1.17
PCF8582C2N	568-3531-5-ND	8-Bit CMOS EEPROM	8-Dip	1.05	.88	.70
PCF8584PN	568-3532-5-ND	I^2C Bus Controller	20-Dip	3.74	3.00	2.33
PCF8584TD	568-3990-5-ND	I^2C Bus Controller	20-SOIC	3.74	3.00	2.33
PCF8584TD-T	568-1086-2-ND	I^2C Bus Controller	20-SOIC	4241.16/2,000		
PCF8594C2D	568-3638-5-ND	CMOS EEPROM with I^2C Bus Interface	8-SOIC	1.20	1.00	.80
PCF8594C2N	568-3639-5-ND	CMOS EEPROM with I^2C Bus Interface	8-Dip	1.20	1.00	.80
PCF8598C2D	568-3640-5-ND	CMOS EEPROM with I^2C Bus Interface	8-SOIC	1.25	1.00	.75
PCF8598C2N	568-3641-5-ND	CMOS EEPROM with I^2C Bus Interface	8-Dip	1.38	1.10	.83
OM6271	568-3511-ND	Demo Board SPI to I^2C	—	22.50	—	—
OM6272	568-3512-ND	Demo Board UART to I^2C	—	52.50	—	—
OM6275	568-3615-ND	Demo Board I^2C	—	33.75	—	—

IEEE 1394

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
PDI1394L40BE-S	568-1176-ND	1394 Enhanced AV Link Layer Controller	144-LQFP	7.79	6.24	5.26

LVDS

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
PTN3310D	568-1093-5-ND	LVDS-PECL HS Serial Logic Translator	8-SOIC	2.64	2.12	1.65
PTN3310DP-T	568-3568-1-ND	LVDS-PECL HS Serial Logic Translator	8-TSSOP	3.01	2.41	1.88
PTN3310DP-T	568-3568-2-ND	LVDS-PECL HS Serial Logic Translator	8-TSSOP	4210.92/2,500		
PTN3311DP-T	568-3569-1-ND	PECL-LVDS HS Serial Logic Translator	8-TSSOP	3.02	2.42	1.89

PBW

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
AU5780AD	568-3051-5-ND	SAE/J1850/VPW Transceiver	8-SOIC	2.71	2.17	1.69

PCI Express

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
PX1011AI-EL1/G-S	568-3616-ND	PCI Express Stand-Alone X1 PHY	81-LFBGA	14.27	12.86	11.40
PX1012AI-EL1/G-S	568-3617-ND	PCI Express Stand-Alone X1 PHY	81-LFBGA	15.70	14.14	12.54

RS232/422/485

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
MC145406D-T	568-1193-1-ND	EIA-232-D/.28 Driver/Receiver	16-SOIC	1.05	.88	.70
MC145406D-T	568-1193-2-ND	EIA-232-D/.28 Driver/Receiver	16-SOIC	465.50/1,000		
MC145406N	568-1194-5-ND	EIA-232-D/.28 Driver/Receiver	16-Dip	1.05	.88	.70

Switches

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
BF1108R T/R	568-1958-1-ND	Silicon RF Switch	SOT-143R	.63	.48	.36
BF1108R T/R	568-1958-2-ND	Silicon RF Switch	SOT-143R	615.81/3,000		
CBT3125PW/G-T	568-1867-1-ND	Quad FET Bus Switch	14-TSSOP	.64	.48	.36
CBT3244APW-T	568-1868-1-ND	Octal Bus Switch with Quad Output Enables	20-TSSOP	.56	.42	.32
PCA9549BS-T	568-3637-1-ND	Octal Bus Switch	24-HVQFN	1.71	1.37	1.03
PCA9549BS-T	568-3637-2-ND	Octal Bus Switch	24-HVQFN	5131.50/6,000		
CBT3244APW-T	568-1868-2-ND	Octal Bus Switch with Quad Output Enables	20-TSSOP	455.00/2,500		
CBT3253AD	568-3055-5-ND	Dual 1-of-4 FET Mux/Demux	16-SOIC	.64	.48	.36
CBT3253ADB	568-3056-5-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	.64	.48	.36
CBT3253ADS	568-3057-5-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	.64	.48	.36
CBT3257AD	568-3058-5-ND	Quad 1-of-2 Mux/Demux	16-SOIC	.64	.48	.36
CBT3257ADB	568-3059-5-ND	Quad 1-of-2 Mux/Demux	16-SSOP	.64	.48	.36
CBT3257ADS	568-3060-5-ND	Quad 1-of-2 Mux/Demux	16-QSOP	.64	.48	.36
CBT3257APW	568-3061-5-ND	Quad 1-of-2 Mux/Demux	16-TSSOP	.64	.48	.36
CBT6820DG	568-3062-5-ND	20-Bit Bus Switch	48-TSSOP	1.45	1.16	.87
CBTD16210DGG-T	568-3063-1-ND	20-Bit Level Shifting Bus Switch	48-TSSOP	1.26	1.05	.84
CBTD16210DGG-T	568-3063-2-ND	20-Bit Level Shifting Bus Switch	48-TSSOP	1117.20/2,000		
PIP401 /T3	568-2326-1-ND	OR-ing Intelligent Switch	D2-PAK	6.34	5.07	4.28
PIP401 /T3	568-2326-2-ND	OR-ing Intelligent Switch	D2-PAK	3219.09/800		
SA630D/01	568-1206-5-ND	SPDT Switch	8-SOIC	5.29	4.23	3.29

UARTs

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SC16C550BIA44-T	568-2039-1-ND	5V, 3.3V and 2.5V UART with 16-Byte FIFO	44-PLCC	2.37	1.90	1.48
SC16C550BIA44-T	568-2039-2-ND	5V, 3.3V and 2.5V UART with 16-Byte FIFO	44-PLCC	684.19/500		
SC16C550BIB48-S	568-2040-ND	5V, 3.3V and 2.5V UART with 16-Byte FIFO	48-LQFP	2.37	1.90	1.48
SC16C550IN40	568-3266-5-ND	Single UART with 16-Byte FIFO	40-Dip	3.20	2.56	1.99
SC16C554BIB64-S	568-2041-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	64-LQFP	8.40	6.72	5.67
SC16C554BIB80-T	568-2042-1-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	80-LQFP	8.40	6.72	5.67
SC16C554BIB80-T	568-2042-2-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	80-LQFP	5250.00/1,000		
SC16C554BIBM-S	568-3267-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	64-LQFP	8.40	6.72	5.67
SC16C554BIBS-S	568-3268-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	48-HVQFN	7.98	6.39	5.39
SC16C554DBIA68-S	568-3269-5-ND	Quad UART with 16-Byte FIFO/Infrared Encoder/Decoder	68-PLCC	8.82	7.06	5.96
SC16C554DBIB64-S	568-3270-ND	Quad UART with 16-Byte FIFO/Infrared Encoder/Decoder	64-LQFP	8.82	7.06	5.96
SC16C554DIA68	568-1110-5-ND	Quad UART with 16-Byte FIFO/Infrared Encoder/Decoder	68-PLCC	9.00	7.20	6.08
SC16C650AIN40	568-3274-5-ND	Single UART with 32-Byte FIFO	40-Dip	5.36	4.29	3.34
SC16C650BIA44-T	568-2043-1-ND	5V, 3.3V and 2.5V UART w/32-Byte FIFO and Infrared Encoder/Decoder	44-PLCC	4.74	3.79	2.95
SC16C650BIA44-T	568-2043-2-ND	5V, 3.3V and 2.5V UART w/32-Byte FIFO and Infrared Encoder/Decoder	44-PLCC	1368.45/500		
SC16C650BIB48-S	568-2044-ND	5V, 3.3V and 2.5V UART w/32-Byte FIFO and Infrared Encoder/Decoder	48-LQFP	4.74	3.79	2.95
SC16C650BIBS-S	568-3275-ND	5V, 3.3V and 2.5V UART w/32-Byte FIFO and Infrared Encoder/Decoder	32-HVQFN	4.26	3.42	2.66
SC16C650BIN40	568-2045-5-ND	5V, 3.3V and 2.5V UART w/32-Byte FIFO and Infrared Encoder/Decoder	40-Dip	5.42	4.34	3.38
SC16C652BIBS	568-2046-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 32-Byte FIFO	32-HVQFN	5.42	4.34	3.38
SC16C652BIB48-S	568-3276-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 32-Byte FIFO	48-LQFP	5.45	4.37	3.69
SC16C654BIA68-T	568-2047-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 64-Byte FIFO	68-PLCC	9.45	7.57	6.39
SC16C654BIBM-S	568-3278-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max with 64-Byte FIFO	64-LQFP	9.24	7.40	6.24
SC16C654BIBS-S	568-3279-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max with 64-Byte FIFO	48-HVQFN	9.24	7.40	6.24
SC16C654DBIB64-S	568-2048-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 64-Byte FIFO	64-LQFP	9.45	7.57	6.39
SC16IS740IPW	568-3648-5-ND	Single UART with I^2C-Bus/SPI Interface	16-TSSOP	2.47	1.98	1.49
SC16C750BIA44-T	568-2049-1-ND	5V, 3.3V and 2.5V UART with 64-Byte FIFO	44-PLCC	4.95	3.96	3.08
SC16C750BIA44-T	568-2049-2-ND	5V, 3.3V and 2.5V UART with 64-Byte FIFO	44-PLCC	1430.00/500		
SC16C750BIB64-S	568-3284-ND	5V, 3.3V and 2.5V UART with 64-Byte FIFO	64-LQFP	4.95	3.96	3.08
SC16C750BIBS-S	568-3285-ND	5V, 3.3V and 2.5V UART with 64-Byte FIFO	32-HVQFN	4.50	3.60	2.80
SC16C752BIB48	568-1322-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 64-Byte FIFO	48-LQFP	5.19	4.15	3.23
SC16C752BIBS-S	568-3288-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 64-Byte FIFO	32-HVQFN	4.69	3.76	2.92
SC16C754BIA68-T	568-2050-1-ND	5V, 3.3V and 2.5V UART, 5Mbit max., with 64-Byte FIFO	68-PLCC	9.45	7.57	6.39
SC16C754BIA68-T	568-2050-2-ND	5V, 3.3V and 2.5V UART, 5Mbit max., with 64-Byte FIFO	68-PLCC	1536.05/250		
SC16C754BIB80	568-1207-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 64-Byte FIFO	80-LQFP	9.45	7.57	6.39
SC16C754BIBM-S	568-3290-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 64-Byte FIFO	64-LQFP	9.45	7.57	6.39
SC16C850LIBS-S	568-4206-ND	1.8V Single UART, 5Mbit max.	32-HVQFN	3.41	2.73	2.13
SC16C850LIET	568-4020-ND	1.8V Single UART, 5Mbit max.	36-TFBGA	3.55	2.85	2.22
SC16C850VIBS-S	568-4207-ND	1.8V Single UART, 5Mbit max.	32-HVQFN	3.41	2.73	2.13
SC16C852LIB-S	568-4208-ND	1.8V Dual UART, 5Mbit max.	48-LQFP	5.19	4.15	3.23
SC16C852LIBS-S	568-4209-ND	1.8V Dual UART, 5Mbit max.	32-HVQFN	4.69	3.76	2.92
SC16C852VIBS-S	568-4210-ND	1.8V Dual UART, 5Mbit max.	48-HVQFN	4.69	3.76	2.92
SC16C852VIET	568-4019-ND	1.8V Dual UART, 5Mbit max.	36-TFBGA	5.03	4.03	3.40
SC16C2550BIA44-T	568-2038-1-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 16-Byte FIFO	44-PLCC	5.19	4.15	3.23
SC16C2550BIA44-T	568-2038-2-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 16-Byte FIFO	44-PLCC	1498.45/500		
SC16C2550BIB48-S	568-3645-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 16-Byte FIFO	48-LQFP	5.19	4.15	3.23
SC16C2550BIBS-S	568-3259-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 16-Byte FIFO	32-HVQFN	4.74	3.79	2.95
SC16C2552BIA44-S	568-3646-5-ND	Dual UART with 16-Byte Transmit and Receive FIFO	44-PLCC	5.07	4.06	3.43
SC16IS750IBS-S	568-2234-ND	Single UART with I^2C Bus/SPI Interface	24-HVQFN	1.71	1.60	1.48
SC16IS750IPW	568-4183-5-ND	Single UART with I^2C Bus/SPI Interface	24-TSSOP	2.70	2.16	1.68
SC16IS752IBS-S	568-2236-ND	Dual UART with I^2C Bus/SPI Interface	32-HVQFN	2.29	2.14	1.99
SC16IS752IPW	568-4016-5-ND	Dual UART with I^2C Bus/SPI Interface	28-TSSOP	3.99	3.73	3.46
SC16IS760IBS-S	568-2238-ND	Single UART with I^2C Bus/SPI Interface	24-HVQFN	1.85	1.73	1.61
SC16IS760IPW	568-4185-ND	Single UART with I^2C Bus/SPI Interface	24-TSSOP	3.08	2.47	1.92
SC16IS762IBS-S	568-2240-ND	Dual UART with I^2C Bus/SPI Interface	32-HVQFN	3.00	2.80	2.60
SC16IS762IPW	568-4021-5-ND	Dual UART with I^2C Bus/SPI Interface	28-TSSOP	4.50	3.60	2.80
SC18IM700IPW	568-3231-5-ND	Master I^2C Bus Controller with UART Interface	16-TSSOP	2.25	1.80	1.40
SC18IS600IPW	568-3232-5-ND	SPI to I^2C Bus Interface	16-TSSOP	2.25	1.80	1.40
SC18IS601IPW	568-3233-5-ND	SPI to I^2C Bus Interface	16-TSSOP	2.25	1.80	1.40
SC18IS602IPW	568-4064-5-ND	I^2C Bus to SPI Bridge	16-TSSOP	2.25	1.80	1.40
SC18IS603IPW	568-4211-ND	I^2C Bus to SPI Bridge	16-TSSOP	2.25	1.80	1.40
SC26C92A1A	568-1112-5-ND	Dual Universal Async. Receiver/Transmitter	44-PLCC	5.60	5.04	4.47
SC26C92C1A	568-1113-5-ND	Dual Universal Async. Receiver/Transmitter	44-PLCC	6.00	4.80	4.05
SC26C92C1N	568-1208-5-ND	Dual Universal Async. Receiver/Transmitter	40-Dip	6.30	5.04	4.26
SC28C94A1A	568-3993-5-ND	Quad Universal Async. Receiver/Transmitter	52-PLCC	22.89	21.37	19.85
SC28C94A1A-T	568-1114-1-ND	Quad Universal Async. Receiver/Transmitter	52-PLCC	22.89	21.37	19.85
SC28C94A1A-T	568-1114-2-ND	Quad Universal Async. Receiver/Transmitter	52-PLCC	9539.50/500		
SC28L91A1A-S	568-3295-5-ND	3.3V or 5.0V UART	44-PLCC	6.29	5.04	4.25

(Continued)

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NXP Semiconductors DATA TRANSMISSION *(Continued)*

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC28L91A1B-S	568-1187-ND	3.3V or 5.0V UART	44-PQFP	6.29	5.04	4.25
SC28L92A1A-S	568-1188-5-ND	3.3V or 5.0V Dual UART	44-PLCC	9.19	8.28	7.34
SC28L92A1B	568-1211-ND	3.3/5V Dual Universal Async. Receiver/Transmitter	44-PQFP	9.19	8.28	7.34
SC28L194A1A	568-1116-5-ND	Quad UART for 3.3V/5V Supply Voltage	68-PLCC	19.69	18.38	17.07
SC28L194A1BE	568-1209-ND	Quad UART for 3.3V/5V Supply Voltage	80-LQFP	19.69	18.38	17.07
SC28L198A1A	568-1117-5-ND	Octal UART for 3.3V/5V Supply Voltage	84-PLCC	31.50	29.40	27.30
SC28L198A1BE	568-1210-ND	Octal UART for 3.3V/5V Supply Voltage	100-LQFP	31.50	29.40	27.30
SC28L201A1DGG	568-3293-5-ND	3.3V, 5V UART, 3.125Mbit, with 256-Byte FIFO	48-TSSOP	7.56	6.05	5.11
SC28L202A1DGG/G	568-3294-5-ND	3.3V, 5V Dual UART	56-TSSOP	10.00	9.00	7.98
SC68C2550BIB48-S	568-3296-ND	5V, 3.3V and 2.5V Dual UART 5Mbit max., with 16-Byte FIFO	48-LQFP	4.74	3.79	2.95
SC68C652BIB48-S	568-3297-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 32-Byte FIFO	48-LQFP	5.45	4.37	3.69
SC68C752BIB48-S	568-3298-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 64-Byte FIFO	48-LQFP	5.24	4.20	3.54
SC68C752BIBS-S	568-3299-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 64-Byte FIFO	32-HVQFN	5.03	4.03	3.40
SCC2681AC1N40	568-3525-5-ND	Dual Async. Receiver/Transmitter	40-Dip	6.00	4.80	4.05
SCC2681AE1A44-S	568-3526-5-ND	Dual Async. Receiver/Transmitter	44-PLCC	7.50	6.00	5.07
SCC2691AC1A28	568-1212-5-ND	Universal Async. Receiver/ Transmitter	28-PLCC	5.50	4.40	3.72
SCC2691AC1D24	568-1118-5-ND	Universal Async. Receiver/Transmitter	24-SOL	5.50	4.40	3.72
SCC2691AC1N24	568-1213-5-ND	Universal Async. Receiver/Transmitter	24-Dip	5.40	4.32	3.65
SCC2691AE1A28	568-1214-5-ND	Universal Async. Receiver/ Transmitter	28-PLCC	6.60	5.28	4.46
SCC2691AE1N24	568-1215-5-ND	Universal Async. Receiver/Transmitter	24-Dip	6.60	5.28	4.46
SCC2692AC1A44	568-1119-5-ND	Dual Universal Async. Receiver/ Transmitter	44-PLCC	5.88	4.71	3.97
SCC2692AC1N40	568-1216-5-ND	Dual Universal Async. Receiver/ Transmitter	40-Dip	5.88	4.71	3.97
SCC2698BC1A84	568-1120-5-ND	Enhanced Octal Universal Async. Receiver/Transmitter	84-PLCC	29.84	27.86	25.87
SCC68681C1A44-S	568-3527-5-ND	Dual Async. Receiver/Transmitter	44-PLCC	5.50	4.40	3.72
SCC68692C1A44	568-1121-5-ND	Dual Async. Receiver/Transmitter	44-PLCC	6.09	4.88	4.12
OM6270	568-3510-ND	Demo Board SPI/ I²C to UART	—	84.00	—	—

NXP Semiconductors DIGITAL LOGIC

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ABT Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ABT00D	568-2459-5-ND	Quad 2-Input NAND Gate	14-SOIC	.99	.75	.56
74ABT00DB	568-2460-5-ND	Quad 2-Input NAND Gate	14-SSOP	.78	.65	.52
74ABT00N	568-2461-5-ND	Quad 2-Input NAND Gate	14-Dip	.99	.75	.56
74ABT00PW	568-2462-5-ND	Quad 2-Input NAND Gate	14-TSSOP	.86	.72	.58
74ABT02D	568-2463-5-ND	Quad 2-Input NOR Gate	14-SOIC	.99	.75	.56
74ABT02DB	568-2464-5-ND	Quad 2-Input NOR Gate	14-SSOP	.78	.65	.52
74ABT02N	568-2465-5-ND	Quad 2-Input NOR Gate	14-Dip	.99	.75	.56
74ABT02PW	568-2466-5-ND	Quad 2-Input NOR Gate	14-TSSOP	.86	.72	.58
74ABT04D	568-1370-5-ND	Hex Inverter	14-SOIC	.99	.75	.56
74ABT04DB	568-2467-5-ND	Hex Inverter	14-SSOP	.78	.65	.52
74ABT04N	568-2468-5-ND	Hex Inverter	14-Dip	.99	.75	.56
74ABT04PW	568-2469-5-ND	Hex Inverter	14-TSSOP	.86	.72	.58
74ABT08D	568-1371-5-ND	Quad 2-Input AND Gate	14-SOIC	.99	.75	.56
74ABT08DB	568-2470-5-ND	Quad 2-Input AND Gate	14-SSOP	.78	.65	.52
74ABT08N	568-2471-5-ND	Quad 2-Input AND Gate	14-Dip	.99	.75	.56
74ABT08PW	568-2472-5-ND	Quad 2-Input AND Gate	14-TSSOP	.86	.72	.58
74ABT20D	568-2476-5-ND	Dual 4-Input NAND Gate	14-SOIC	.99	.75	.56
74ABT20DB	568-2477-5-ND	Dual 4-Input NAND Gate	14-SSOP	.99	.75	.56
74ABT20N	568-2478-5-ND	Dual 4-Input NAND Gate	14-Dip	.99	.75	.56
74ABT20PW	568-2479-5-ND	Dual 4-Input NAND Gate	14-TSSOP	.99	.75	.56
74ABT32D	568-2481-5-ND	Quad 2-Input OR Gate	14-SOIC	.99	.75	.56
74ABT32DB	568-2482-5-ND	Quad 2-Input OR Gate	14-SSOP	.78	.65	.52
74ABT32N	568-2483-5-ND	Quad 2-Input OR Gate	14-Dip	.99	.75	.56
74ABT32PW	568-2484-5-ND	Quad 2-Input OR Gate	14-TSSOP	.86	.72	.58
74ABT74D	568-1376-5-ND	Dual D-Type Flip-Flop	14-SOIC	.89	.75	.60
74ABT74DB	568-2492-5-ND	Dual D-Type Flip-Flop	14-SSOP	.93	.78	.62
74ABT74N	568-2493-5-ND	Dual D-Type Flip-Flop	14-Dip	.89	.75	.60
74ABT74PW	568-2494-5-ND	Dual D-Type Flip-Flop	14-TSSOP	1.00	.84	.67
74ABT125D	568-1372-5-ND	Tri-State Quad Buffer	14-SOIC	.45	.36	.27
74ABT125D-T	568-2279-1-ND	Tri-State Quad Buffer	14-SOIC	.45	.36	.27
74ABT125D-T	568-2279-2-ND	Tri-State Quad Buffer	14-SOIC	303.75/2,500		
74ABT244D	568-1373-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.38	.29
74ABT244D-T	568-2280-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.38	.29
74ABT244D-T	568-2280-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	335.16/2,000		
74ABT244DB-T	568-2281-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.50	.38	.29
74ABT244DB-T	568-2281-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	167.58/1,000		
74ABT245D	568-1374-5-ND	Tri-State Octal Transceiver with Direction Pin	20-SOIC	.50	.38	.29
74ABT541D	568-1375-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
74ABT544D	568-2485-5-ND	Tri-State Octal Transceiver, Inverting	24-SOIC	2.53	2.03	1.58
74ABT544DB	568-2486-5-ND	Tri-State Octal Transceiver, Inverting	24-SSOP	2.53	2.03	1.58
74ABT544PW	568-2487-5-ND	Tri-State Octal Transceiver, Inverting	24-TSSOP	2.49	1.99	1.55
74ABT648D	568-2488-5-ND	Tri-State Octal Transceiver, Inverting	24-SOIC	2.27	1.82	1.42
74ABT648PW	568-2489-5-ND	Tri-State Octal Transceiver, Inverting	24-TSSOP	2.27	1.82	1.42
74ABT651PW	568-2490-5-ND	Tri-State Octal Transceiver/Register, Inverting	24-TSSOP	2.27	1.82	1.42
74ABT657PW	568-2491-5-ND	Tri-State Octal Transceiver	24-TSSOP	2.37	1.90	1.48
74ABT821PW	568-2495-5-ND	Tri-State 10-Bit D-Type Flip-Flop, Positive-Edge-Triggered	24-TSSOP	2.21	1.77	1.33
74ABT823PW	568-2496-5-ND	Tri-State 9-Bit D-Type F/F	24-TSSOP	2.21	1.77	1.33
74ABT841PW	568-2497-5-ND	10-Bit Bus Interface Latch	24-TSSOP	2.01	1.62	1.21
74ABT2245PW	568-2480-5-ND	Tri-State Octal Transceiver	20-TSSOP	1.29	1.08	.87
74ABT16273DG	568-2473-5-ND	16-Bit D-Type Flip-Flop	48-TSSOP	2.39	1.92	1.44
74ABT16273DL	568-2474-5-ND	16-Bit D-Type Flip-Flop	48-SSOP	2.39	1.92	1.44
74ABT16374BB	568-2475-ND	Tri-State 16-Bit D-Type Flip-Flop, Positive-Edge-Triggered	52-QFP	4.26	3.42	2.66

AHC Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AHC14BQ-G	568-2498-1-ND	Hex Inverting Schmitt Trigger	14-DHVQFN	.81	.61	.46
74AHC14BQ-G	568-2498-2-ND	Hex Inverting Schmitt Trigger	14-DHVQFN	788.19/3,000		
74AHC1G00GW-G	568-2499-1-ND	2-Input NAND Gate	SC88A-5	.29	.22	.16
74AHC1G00GW-G	568-2499-2-ND	2-Input NAND Gate	SC88A-5	169.20/3,000		
74AHC1G04GW-G	568-2500-1-ND	Inverter	SC88A-5	.29	.22	.16
74AHC1G04GW-G	568-2500-2-ND	Inverter	SC88A-5	169.20/3,000		
74AHC1G08GW-G	568-2501-1-ND	2-Input AND Gate	SC88A-5	.29	.22	.16
74AHC1G08GW-G	568-2501-2-ND	2-Input AND Gate	SC88A-5	169.20/3,000		
74AHC1G14GV	568-2256-1-ND	Inverting Schmitt Trigger	SOT-753	.29	.22	.16
74AHC1G14GV	568-2256-2-ND	Inverting Schmitt Trigger	SOT-753	169.20/3,000		
74AHC1G14GW-G	568-2502-1-ND	Inverting Schmitt Trigger	SC88A-5	.29	.22	.16
74AHC1G14GW-G	568-2502-2-ND	Inverting Schmitt Trigger	SC88A-5	169.20/3,000		
74AHC1G32GV	568-2262-1-ND	2-Input OR Gate	SOT-753	.29	.22	.16
74AHC1G32GV	568-2262-2-ND	2-Input OR Gate	SOT-753	169.20/3,000		
74AHC1G32GW-G	568-2503-1-ND	2-Input OR Gate	SC88A-5	.29	.22	.16
74AHC1G32GW-G	568-2503-2-ND	2-Input OR Gate	SC88A-5	169.20/3,000		
74AHC02PW-T	568-2258-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.38	.30	.21
74AHC02PW-T	568-2258-2-ND	Quad 2-Input NOR Gate	14-TSSOP	211.50/2,500		
74AHC259D	568-2504-5-ND	8-Bit Addressable Latch	16-SOIC	.84	.64	.48
74AHC259PW	568-2505-5-ND	8-Bit Addressable Latch	16-TSSOP	.84	.64	.48
74AHC273BQ-G	568-2506-1-ND	Octal D-Type F/F, Positive-Edge	20-DHVQFN	.82	.69	.55
74AHC273BQ-G	568-2506-2-ND	Octal D-Type F/F, Positive-Edge	20-DHVQFN	1067.43/3,000		
74AHC30D	568-2507-5-ND	8-Input NAND Gate	14-SOIC	.51	.41	.31
74AHC30PW	568-2508-5-ND	8-Input NAND Gate	14-TSSOP	.51	.41	.31
74AHC377D	568-2509-5-ND	Octal D-Type F/F, Positive-Edge	20-SOIC	.84	.64	.48
74AHC377PW	568-2510-5-ND	Octal D-Type F/F, Positive-Edge	20-TSSOP	.84	.64	.48

AHCT Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AHCT08D	568-2511-5-ND	Quad 2-Input AND Gate	14-SOIC	.34	.27	.19
74AHCT14BQ-G	568-2512-1-ND	Hex Inverting Schmitt Trigger	14-DHVQFN	.81	.61	.46
74AHCT14BQ-G	568-2512-2-ND	Hex Inverting Schmitt Trigger	14-DHVQFN	788.19/3,000		
74AHCT30D	568-2518-5-ND	8-Input NAND Gate	14-SOIC	.51	.41	.31
74AHCT30PW	568-2519-5-ND	8-Input NAND Gate	14-TSSOP	.51	.41	.31
74AHCT164D	568-2513-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.78	.59	.44
74AHCT164PW	568-2514-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-TSSOP	.78	.59	.44
74AHCT259D	568-2515-5-ND	8-Bit Addressable Latch	16-SOIC	.93	.78	.62
74AHCT259PW	568-2516-5-ND	8-Bit Addressable Latch	16-TSSOP	.93	.78	.62
74AHCT273BQ-G	568-2517-1-ND	Octal D-Type F/F, Positive-Edge	20-DHVQFN	.91	.76	.61
74AHCT273BQ-G	568-2517-2-ND	Octal D-Type F/F, Positive-Edge	20-DHVQFN	1182.48/3,000		
74AHCT377D	568-2520-5-ND	Octal D-Type F/F, Positive-Edge	20-SOIC	.84	.64	.48
74AHCT377PW	568-2521-5-ND	Octal D-Type F/F, Positive-Edge	20-TSSOP	.84	.64	.48
74AHCT541BQ-G	568-4353-1-ND	Tri-State Octal Buffer/Line Driver ***NEW!***	20-DHVQFN	.63	.48	.36
74AHCT541BQ-G	568-4353-2-ND	Tri-State Octal Buffer/Line Driver ***NEW!***	20-DHVQFN	615.81/3,000		

ALVC Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ALVC164245DGG	568-1377-5-ND	Tri-State 16-Bit Dual Supply Translating Transceiver	48-TSSOP	1.13	.95	.76
74ALVC164245DL	568-1378-5-ND	Tri-State 16-Bit Dual Supply Translating Transceiver	48-SSOP	.90	.75	.60

ALVT Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ALVT16241DG	568-2529-5-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	3.67	2.94	2.29
74ALVT16241DL	568-2530-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	3.67	2.94	2.29
74ALVT16245DG	568-2531-5-ND	Tri-State 2.5V/3.3V 16-Bit Transceiver	48-TSSOP	3.20	2.57	2.00
74ALVT16245DL	568-2532-5-ND	Tri-State 2.5V/3.3V 16-Bit Transceiver	48-SSOP	3.20	2.57	2.00
74ALVT16260DL	568-2533-5-ND	Tri-State 12 to 24-Bit Multiplexed D-Type Latch	56-SSOP	4.26	3.42	2.66
74ALVT16501DG	568-2538-5-ND	Tri-State 18-Bit Universal Bus Transceiver	56-TSSOP	5.62	4.50	3.80
74ALVT16501DL	568-2539-5-ND	Tri-State 18-Bit Universal Bus Transceiver	56-SSOP	5.62	4.50	3.80
74ALVT16543DG	568-2540-5-ND	Tri-State 2.5V/3.3V 16-Bit Registered Transceiver	56-TSSOP	5.62	4.50	3.80
74ALVT16543DL	568-2541-5-ND	Tri-State 2.5V/3.3V 16-Bit Registered Transceiver	56-SSOP	5.62	4.50	3.80
74ALVT16652DL	568-2542-5-ND	Tri-State 2.5V/3.3V 16-Bit Bus Transceiver	56-SSOP	5.62	4.50	3.80
74ALVT16823DG	568-2543-5-ND	Tri-State 18-Bit Bus Interface D-Type Flip-Flop	56-TSSOP	5.18	4.15	3.50
74ALVT16823DL	568-2544-5-ND	Tri-State 18-Bit Bus Interface D-Type Flip-Flop	56-SSOP	5.18	4.15	3.50
74ALVT162240DG	568-2523-5-ND	Tri-State 2.5V/3.3V 16-Bit Inverting Buffer/Driver	48-TSSOP	3.84	3.07	2.39
74ALVT162240DL	568-2524-5-ND	Tri-State 2.5V/3.3V 16-Bit Inverting Buffer/Driver	48-SSOP	3.84	3.07	2.39
74ALVT162241DG	568-2525-5-ND	Tri-State 2.5V/3.3V 16-Bit Buffer/Driver	48-TSSOP	3.84	3.07	2.39
74ALVT162241DL	568-2526-5-ND	Tri-State 2.5V/3.3V 16-Bit Buffer/Driver	48-SSOP	3.84	3.07	2.39
74ALVT162245DG	568-2527-5-ND	Tri-St. 2.5V/3.3V 16-Bit Transceiver	48-TSSOP	3.84	3.07	2.39
74ALVT162245DL	568-2528-5-ND	Tri-St. 2.5V/3.3V 16-Bit Transceiver	48-SSOP	3.84	3.07	2.39
74ALVT162821DG	568-2534-5-ND	Tri-State 2.5V/3.3V 20-Bit Bus-Interface D-Type Flip-Flop	56-TSSOP	5.18	4.15	3.50
74ALVT162821DL	568-2535-5-ND	Tri-State 2.5V/3.3V 20-Bit Bus-Interface D-Type Flip-Flop	56-SSOP	5.18	4.15	3.50
74ALVT162823DG	568-2536-5-ND	Tri-State 18-Bit Bus Interface D-Type Flip-Flop	56-TSSOP	5.18	4.15	3.50
74ALVT162823DL	568-2537-5-ND	Tri-State 18-Bit Bus Interface D-Type Flip-Flop	56-SSOP	5.18	4.15	3.50

AUP Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AUP1G00GM-G	568-2545-1-ND	Low Power 2-Input NAND Gate	6-XSON	.47	.38	.29
74AUP1G00GM-G	568-2545-2-ND	Low Power 2-Input NAND Gate	6-XSON	607.75/5,000		
74AUP1G00GW-G	568-2546-1-ND	Low Power 2-Input NAND Gate	5-TSSOP	.36	.29	.20
74AUP1G00GW-G	568-2546-2-ND	Low Power 2-Input NAND Gate	5-TSSOP	280.50/3,000		
74AUP1G02GM-G	568-2547-1-ND	Low Power 2-Input NOR Gate	6-XSON	.47	.38	.29
74AUP1G02GM-G	568-2547-2-ND	Low Power 2-Input NOR Gate	6-XSON	607.75/5,000		
74AUP1G02GW-G	568-2548-1-ND	Low Power 2-Input NOR Gate	5-TSSOP	.36	.29	.20
74AUP1G02GW-G	568-2548-2-ND	Low Power 2-Input NOR Gate	5-TSSOP	280.50/3,000		
74AUP1G04GW-G	568-2549-1-ND	Low Power Inverter	5-TSSOP	.36	.29	.20
74AUP1G04GW-G	568-2549-2-ND	Low Power Inverter	5-TSSOP	280.50/3,000		

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AUP1G06GM-G	568-2550-1-ND	Low Power Inverter with OD Output	6-XSON	.47	.38	.29
74AUP1G06GM-G	568-2550-2-ND	Low Power Inverter with OD Output	6-XSON	607.75/5,000		
74AUP1G06GW-G	568-2551-1-ND	Low Power Inverter with OD Output	5-TSSOP	.36	.29	.20
74AUP1G06GW-G	568-2551-2-ND	Low Power Inverter with OD Output	5-TSSOP	280.50/3,000		
74AUP1G08GM-G	568-2552-1-ND	Low Power 2-Input AND Gate	6-XSON	.47	.38	.29
74AUP1G08GM-G	568-2552-2-ND	Low Power 2-Input AND Gate	6-XSON	607.75/5,000		
74AUP1G08GW-G	568-2553-1-ND	Low Power 2-Input AND Gate	5-TSSOP	.36	.29	.20
74AUP1G08GW-G	568-2553-2-ND	Low Power 2-Input AND Gate	5-TSSOP	280.50/3,000		
74AUP1G14GM-G	568-2558-1-ND	Low Power Schmitt Trigger Inverter	6-XSON	.47	.38	.29
74AUP1G14GM-G	568-2558-2-ND	Low Power Schmitt Trigger Inverter	6-XSON	607.75/5,000		
74AUP1G14GW-G	568-2559-1-ND	Low Power Schmitt Trigger Inverter	5-TSSOP	.36	.29	.20
74AUP1G14GW-G	568-2559-2-ND	Low Power Schmitt Trigger Inverter	5-TSSOP	280.50/3,000		
74AUP1G17GM-G	568-2560-1-ND	Low Power Schmitt Trigger Buffer	6-XSON	.47	.38	.29
74AUP1G17GM-G	568-2560-2-ND	Low Power Schmitt Trigger Buffer	6-XSON	607.75/5,000		
74AUP1G17GW-G	568-2561-1-ND	Low Power Schmitt Trigger Buffer	5-TSSOP	.36	.29	.20
74AUP1G17GW-G	568-2561-2-ND	Low Power Schmitt Trigger Buffer	5-TSSOP	280.50/3,000		
74AUP1G32GM-G	568-2562-1-ND	Low Power 2-Input OR Gate	6-XSON	.47	.38	.29
74AUP1G32GM-G	568-2562-2-ND	Low Power 2-Input OR Gate	6-XSON	607.75/5,000		
74AUP1G32GW-G	568-2563-1-ND	Low Power 2-Input OR Gate	5-TSSOP	.36	.29	.20
74AUP1G32GW-G	568-2563-2-ND	Low Power 2-Input OR Gate	5-TSSOP	280.50/3,000		
74AUP1G34GM-G	568-2564-1-ND	Low Power Buffer	6-XSON	.47	.38	.29
74AUP1G34GM-G	568-2564-2-ND	Low Power Buffer	6-XSON	715.00/5,000		
74AUP1G34GW-G	568-2565-1-ND	Low Power Buffer	5-TSSOP	.46	.37	.26
74AUP1G34GW-G	568-2565-2-ND	Low Power Buffer	5-TSSOP	357.00/3,000		
74AUP1G58GM-G	568-2566-1-ND	Low Power Configurable Multiple Funcion Gate	6-XSON	.47	.38	.29
74AUP1G58GM-G	568-2566-2-ND	Low Power Configurable Multiple Funcion Gate	6-XSON	607.75/5,000		
74AUP1G58GW-G	568-2567-1-ND	Low Power Configurable Multiple Funcion Gate	SC-88	.50	.41	.28
74AUP1G58GW-G	568-2567-2-ND	Low Power Configurable Multiple Funcion Gate	SC-88	392.70/3,000		
74AUP1G79GM-G	568-2568-1-ND	LP D-Type F/F, Positive-Edge-Trigger	6-XSON	.47	.38	.29
74AUP1G79GM-G	568-2568-2-ND	LP D-Type F/F, Positive-Edge-Trigger	6-XSON	607.75/5,000		
74AUP1G79GW-G	568-2569-1-ND	Low Power D-Type Flip-Flop, Positive-Edge-Trigger	5-TSSOP	.50	.41	.28
74AUP1G79GW-G	568-2569-2-ND	Low Power D-Type Flip-Flop, Positive-Edge-Trigger	5-TSSOP	392.70/3,000		
74AUP1G86GM-G	568-2570-1-ND	Low Power 2-In. Exclusive OR Gate	6-XSON	.47	.38	.29
74AUP1G86GM-G	568-2570-2-ND	Low Power 2-In. Exclusive OR Gate	6-XSON	607.75/5,000		
74AUP1G86GW-G	568-2571-1-ND	Low Power 2-In. Exclusive OR Gate	5-TSSOP	.36	.29	.20
74AUP1G86GW-G	568-2571-2-ND	Low Power 2-In. Exclusive OR Gate	5-TSSOP	280.50/3,000		
74AUP1G125GM-G	568-2554-1-ND	Tri-State LP Buffer/Line Driver	6-XSON	.47	.38	.29
74AUP1G125GM-G	568-2554-2-ND	Tri-State LP Buffer/Line Driver	6-XSON	607.75/5,000		
74AUP1G125GW-G	568-2555-1-ND	Tri-State LP Buffer/Line Driver	5-TSSOP	.46	.37	.26
74AUP1G125GW-G	568-2555-2-ND	Tri-State LP Buffer/Line Driver	5-TSSOP	357.00/3,000		
74AUP1G126GM-G	568-2556-1-ND	Tri-State LP Buffer/Line Driver	6-XSON	.47	.38	.29
74AUP1G126GM-G	568-2556-2-ND	Tri-State LP Buffer/Line Driver	6-XSON	607.75/5,000		
74AUP1G126GW-G	568-2557-1-ND	Tri-State LP Buffer/Line Driver	5-TSSOP	.46	.37	.26
74AUP1G126GW-G	568-2557-2-ND	Tri-State LP Buffer/Line Driver	5-TSSOP	357.00/3,000		
74AUP1GU04GM-G	568-2572-1-ND	Low Power Unbuffered Inverter	6-XSON	.47	.38	.29
74AUP1GU04GM-G	568-2572-2-ND	Low Power Unbuffered Inverter	6-XSON	607.75/5,000		
74AUP1GU04GW-G	568-2573-1-ND	Low Power Unbuffered Inverter	5-TSSOP	.36	.29	.20
74AUP1GU04GW-G	568-2573-2-ND	Low Power Unbuffered Inverter	5-TSSOP	280.50/3,000		
74AUP2G04GM-G	568-2574-1-ND	Low Power Dual Inverter	6-XSON	.47	.38	.29
74AUP2G04GM-G	568-2574-2-ND	Low Power Dual Inverter	6-XSON	607.75/5,000		
74AUP2G04GW-G	568-2575-1-ND	Low Power Dual Inverter	SC-88	.50	.41	.28
74AUP2G04GW-G	568-2575-2-ND	Low Power Dual Inverter	SC-88	392.70/3,000		
74AUP2G07GM-G	568-2576-1-ND	LP Dual Buffer with OD Output	6-XSON	.47	.38	.29
74AUP2G07GM-G	568-2576-2-ND	LP Dual Buffer with OD Output	6-XSON	607.75/5,000		
74AUP2G07GW-G	568-2577-1-ND	LP Dual Buffer with OD Output	SC-88	.50	.41	.28
74AUP2G07GW-G	568-2577-2-ND	LP Dual Buffer with OD Output	SC-88	392.70/3,000		
74AUP2G14GM-G	568-2578-1-ND	LP Dual Schmitt Trigger Inverter	6-XSON	.47	.38	.29
74AUP2G14GM-G	568-2578-2-ND	LP Dual Schmitt Trigger Inverter	6-XSON	607.75/5,000		
74AUP2G14GW-G	568-2579-1-ND	LP Dual Schmitt Trigger Inverter	SC-88	.50	.41	.28
74AUP2G14GW-G	568-2579-2-ND	LP Dual Schmitt Trigger Inverter	SC-88	392.70/3,000		
74AUP2G34GM-G	568-2580-1-ND	Low Power Dual Buffer	6-XSON	.47	.38	.29
74AUP2G34GM-G	568-2580-2-ND	Low Power Dual Buffer	6-XSON	607.75/5,000		
74AUP2G34GW-G	568-2581-1-ND	Low Power Dual Buffer	SC-88	.50	.41	.28
74AUP2G34GW-G	568-2581-2-ND	Low Power Dual Buffer	SC-88	392.70/3,000		
74AUP2GU04GM-G	568-2582-1-ND	Low Power Dual Unbuffered Inverter	6-XSON	.47	.38	.29
74AUP2GU04GM-G	568-2582-2-ND	Low Power Dual Unbuffered Inverter	6-XSON	607.75/5,000		
74AUP2GU04GW-G	568-2583-1-ND	Low Power Dual Unbuffered Inverter	SC-88	.50	.41	.28
74AUP2GU04GW-G	568-2583-2-ND	Low Power Dual Unbuffered Inverter	SC-88	392.70/3,000		

AVCH Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AVCH16244DG	568-2584-5-ND	16-Bit Buffer/Line Driver	48-TSSOP	4.74	3.79	2.95
74AVCH16245DG	568-2585-5-ND	16-Bit Transceiver w/Direction Pin	48-TSSOP	4.74	3.79	2.95

AVCM Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AVCM162834DG	568-2586-5-ND	18-Bit Registered Driver	56-TSSOP	1.71	1.37	1.03
74AVCM162835DG	568-2587-5-ND	18-Bit Registered Driver	56-TSSOP	1.71	1.37	1.03
74AVCM162836DG	568-2588-5-ND	20-Bit Registered Driver	56-TSSOP	1.71	1.37	1.03

CBT Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CBT3244ABQ-T	568-3618-1-ND	Octal Bus Switch	20-DHVQFN	.56	.42	.32
CBT3244ABQ-T	568-3618-2-ND	Octal Bus Switch	20-DHVQFN	546.00/3,000		
CBT3244AD	568-3619-5-ND	Octal Bus Switch	20-SOIC	.56	.42	.32
CBT3244ADB	568-3620-5-ND	Octal Bus Switch	20-SSOP	.56	.42	.32
CBT3244ADS	568-3621-5-ND	Octal Bus Switch	20-QSOP	.56	.42	.32
CBT3245ABQ-T	568-3622-1-ND	Octal Bus Switch	20-DHVQFN	.56	.42	.32
CBT3245ABQ-T	568-3622-2-ND	Octal Bus Switch	20-DHVQFN	546.00/3,000		
CBT3245ADB	568-3623-5-ND	Octal Bus Switch	20-SSOP	.56	.42	.32
CBT3245ADS	568-3624-5-ND	Octal Bus Switch	20-QSOP	.56	.42	.32
CBT3245APW	568-3625-5-ND	Octal Bus Switch	20-TSSOP	.56	.42	.32
CBT3251D	568-3626-5-ND	1-of-8 FET Multiplexer/Demultiplexer	16-SOIC	.64	.48	.36
CBT3251DS	568-3627-5-ND	1-of-8 FET Multiplexer/Demultiplexer	16-SSOP	.64	.48	.36
CBT3251PW	568-3628-5-ND	1-of-8 FET Multiplexer/Demux	16-TSSOP	.64	.48	.36
CBT3253APW	568-3629-5-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	.64	.48	.36
CBTU0808EE/G-T	568-3630-1-ND	Dual Lane PCI Express Port Mux	48-TFBGA	2.25	1.80	1.40
CBTU0808EE/G-T	568-3630-2-ND	Dual Lane PCI Express Port Mux	48-TFBGA	3780.00/3,000		

HC Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74HC00BQ-G	568-2589-1-ND	Quad 2-Input NAND Gate	14-DHVQFN	.81	.61	.46
74HC00BQ-G	568-2589-2-ND	Quad 2-Input NAND Gate	14-DHVQFN	788.19/3,000		
74HC00D	568-3946-5-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.34	.24
74HC00DB	568-2590-5-ND	Quad 2-Input NAND Gate	14-SSOP	.58	.47	.35
74HC00D-T	568-1379-1-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.34	.24
74HC00D-T	568-1379-2-ND	Quad 2-Input NAND Gate	14-SOIC	238.50/2,500		
74HC00N	568-1380-5-ND	Quad 2-Input NAND Gate	14-Dip	.45	.37	.25
74HC02D	568-3947-5-ND	Quad 2-Input NOR Gate	14-SOIC	.38	.30	.22
74HC02D-T	568-1381-1-ND	Quad 2-Input NOR Gate	14-SOIC	.38	.30	.22
74HC02D-T	568-1381-2-ND	Quad 2-Input NOR Gate	14-SOIC	216.00/2,500		
74HC02N	568-1382-5-ND	Quad 2-Input NOR Gate	14-Dip	.45	.37	.25
74HC03D-T	568-1383-1-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.34	.24
74HC03D-T	568-1383-2-ND	Quad 2-Input NAND Gate	14-SOIC	238.50/2,500		
74HC03DB	568-2591-5-ND	Quad 2-Input NAND Gate	14-SSOP	.58	.47	.35
74HC04BQ-G	568-2592-1-ND	Hex Inverter	14-DHVQFN	.81	.61	.46
74HC04BQ-G	568-2592-2-ND	Hex Inverter	14-DHVQFN	788.19/3,000		
74HC04D	568-3948-5-ND	Hex Inverter	14-SOIC	.35	.28	.20
74HC04D-T	568-1384-1-ND	Hex Inverter	14-SOIC	.35	.28	.20
74HC04D-T	568-1384-2-ND	Hex Inverter	14-SOIC	198.00/2,500		
74HC04DB	568-2593-5-ND	Hex Inverter	14-SSOP	.58	.47	.35
74HC04N	568-1385-5-ND	Hex Inverter	14-Dip	.45	.37	.25
74HC08BQ-G	568-2594-1-ND	Quad 2-Input AND Gate	14-DHVQFN	.81	.61	.46
74HC08BQ-G	568-2594-2-ND	Quad 2-Input AND Gate	14-DHVQFN	788.19/3,000		
74HC08D	568-3949-5-ND	Quad 2-Input AND Gate	14-SOIC	.35	.28	.20
74HC08D-T	568-1386-1-ND	Quad 2-Input AND Gate	14-SOIC	.35	.28	.20
74HC08D-T	568-1386-2-ND	Quad 2-Input AND Gate	14-SOIC	198.00/2,500		
74HC08DB	568-2595-5-ND	Quad 2-Input AND Gate	14-SSOP	.58	.47	.35
74HC08N	568-1387-5-ND	Quad 2-Input AND Gate	14-Dip	.45	.37	.25
74HC10DB	568-2598-5-ND	Triple 3-Input NAND Gate	14-SSOP	.58	.47	.35
74HC10N	568-1388-5-ND	Triple 3-Input NAND Gate	14-Dip	.45	.37	.25
74HC11D	568-2600-5-ND	Triple 3-Input AND Gate	14-SOIC	.42	.34	.24
74HC11DB	568-2601-5-ND	Triple 3-Input AND Gate	14-SSOP	.58	.47	.35
74HC11N	568-1389-5-ND	Triple 3-Input AND Gate	14-Dip	.45	.37	.25
74HC14BQ-G	568-2610-1-ND	Hex Inverting Schmitt Trigger	14-QFN	.80	.60	.45
74HC14BQ-G	568-2610-2-ND	Hex Inverting Schmitt Trigger	14-QFN	780.00/3,000		
74HC14D	568-3953-5-ND	Hex Inverting Schmitt Trigger	14-SOIC	.35	.28	.20
74HC14D-T	568-1401-1-ND	Hex Inverting Schmitt Trigger	14-SOIC	.35	.28	.20
74HC14D-T	568-1401-2-ND	Hex Inverting Schmitt Trigger	14-SOIC	198.00/2,500		
74HC14DB	568-2611-5-ND	Hex Inverting Schmitt Trigger	14-SSOP	.63	.48	.36
74HC14N	568-1402-5-ND	Hex Inverting Schmitt Trigger	14-Dip	.45	.37	.25
74HC20DB	568-2643-5-ND	Dual 4-Input NAND Gate	14-SSOP	.58	.47	.35
74HC20N	568-1414-5-ND	Dual 4-Input NAND Gate	14-Dip	.45	.37	.25
74HC27D	568-2658-5-ND	Triple 3-Input NOR Gate	14-SOIC	.42	.34	.24
74HC27DB	568-2659-5-ND	Triple 3-Input NOR Gate	14-SSOP	.59	.45	.34
74HC30DB	568-2662-5-ND	8-Input NAND Gate	14-SSOP	.51	.38	.29
74HC30D	568-1431-5-ND	8-Input NAND Gate	14-SOIC	.42	.34	.24
74HC30D-T	568-2261-1-ND	8-Input NAND Gate	14-SOIC	.53	.42	.32
74HC30D-T	568-2261-2-ND	8-Input NAND Gate	14-SOIC	354.38/2,500		
74HC30N	568-1432-5-ND	8-Input NAND Gate	14-Dip	.45	.37	.25
74HC32BQ-G	568-2663-1-ND	Quad 2-Input OR Gate	14-DHVQFN	.80	.60	.45
74HC32BQ-G	568-2663-2-ND	Quad 2-Input OR Gate	14-DHVQFN	780.00/3,000		
74HC32D	568-3958-5-ND	Quad 2-Input OR Gate	14-SOIC	.38	.30	.22
74HC32D-T	568-1433-1-ND	Quad 2-Input OR Gate	14-SOIC	.53	.42	.32
74HC32D-T	568-1433-2-ND	Quad 2-Input OR Gate	14-SOIC	354.38/2,500		
74HC32DB	568-2664-5-ND	Quad 2-Input OR Gate	14-SSOP	.58	.47	.35
74HC32N	568-1434-5-ND	Quad 2-Input OR Gate	14-Dip	.45	.37	.25
74HC42N	568-1469-5-ND	BCD to Decimal Decoder	16-Dip	.80	.60	.45
74HC58D	568-2716-5-ND	Dual AND OR Gate	14-SOIC	.54	.41	.31
74HC58DB	568-2717-5-ND	Dual AND OR Gate	14-SSOP	.54	.41	.31
74HC58N	568-1481-5-ND	Dual AND OR Gate	14-Dip	.54	.41	.31
74HC73D	568-2735-5-ND	Dual JK Flip-Flop with Reset, Negative-Edge-Triggered	14-SOIC	.46	.37	.28
74HC73DB	568-2736-5-ND	Dual JK Flip-Flop with Reset, Negative-Edge-Triggered	14-SSOP	.55	.42	.31
74HC73N	568-1489-5-ND	Dual JK Flip-Flop with Reset, Negative-Edge-Triggered	14-Dip	.50	.38	.29
74HC74BQ-G	568-2738-1-ND	Dual D-Type Flip-Flop with Set and Reset Positive-Edge-Triggered	14-DHVQFN	.81	.61	.46
74HC74BQ-G	568-2738-2-ND	Dual D-Type Flip-Flop with Set and Reset Positive-Edge-Triggered	14-DHVQFN	788.19/3,000		
74HC74D	568-3969-5-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	.42	.34	.24
74HC74D-T	568-1490-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	.42	.34	.24
74HC74D-T	568-1490-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	238.50/2,500		
74HC74N	568-1491-5-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-Dip	.42	.34	.25
74HC75D	568-2744-5-ND	Quad Bistable Transparent Latch	16-SOIC	.53	.40	.30
74HC75DB	568-2745-5-ND	Quad Bistable Transparent Latch	16-SSOP	.63	.48	.36
74HC75N	568-1493-5-ND	Quad Bistable Transparent Latch	16-Dip	.57	.43	.32
74HC85D	568-1494-5-ND	4-Bit Magnitude Comparator	16-SOIC	.51	.41	.31
74HC85DB	568-2748-5-ND	4-Bit Magnitude Comparator	16-SSOP	.93	.70	.53
74HC85N	568-1495-5-ND	4-Bit Magnitude Comparator	16-Dip	.63	.48	.36
74HC86D-T	568-1496-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.48	.36	.27
74HC86D-T	568-1496-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	390.00/2,500		
74HC86DB	568-2749-5-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.67	.51	.38
74HC86N	568-1497-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.43	.34	.26
74HC93D	568-2754-5-ND	4-Bit Binary Ripple Counter	14-SOIC	.84	.63	.48
74HC93DB	568-2755-5-ND	4-Bit Binary Ripple Counter	14-SSOP	.76	.64	.51
74HC107DB	568-2596-5-ND	Dual JK F/F Negative-Edge Trigger	14-SSOP	.80	.60	.45
74HC109DB	568-2597-5-ND	Dual JK F/F Positive-Edge Trigger	16-SSOP	.59	.45	.34
74HC112DB	568-2599-5-ND	Dual JK F/F Negative-Edge Trigger	16-SSOP	.67	.51	.38
74HC123D	568-3950-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	.49	.40	.27
74HC123D-T	568-1390-1-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	.49	.40	.27
74HC123D-T	568-1390-2-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	318.75/2,500		
74HC123DB	568-2602-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SSOP	.84	.64	.48
74HC123N	568-1391-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-Dip	.50	.38	.29
74HC125D-T	568-1392-1-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	.38	.31	.21
74HC125D-T	568-1392-2-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	246.50/2,500		
74HC125N	568-1393-5-ND	Tri-State Quad Buffer/Line Driver	14-Dip	.45	.37	.28
74HC126D	568-2603-5-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	.42	.34	.24
74HC132D	568-3951-5-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.39	.32	.22
74HC132D-T	568-1394-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.39	.32	.22

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74HC132D-T	568-1394-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	255.00/2,500		
74HC132N	568-1395-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.45	.37	.28
74HC132PW	568-2604-5-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	.48	.39	.27
74HC137D	568-2605-5-ND	3-to-8 Line Decoder/Demux	16-SOIC	.53	.40	.30
74HC137DB	568-2606-5-ND	3-to-8 Line Decoder/Demux	16-SSOP	.76	.57	.43
74HC137N	568-1396-5-ND	3-to-8 Line Decoder/Demux	16-Dip	.58	.44	.33
74HC138BQ-G	568-2607-1-ND	3-to-8 Line Decoder/Demux	16-DHVQFN	.93	.70	.53
74HC138BQ-G	568-2607-2-ND	3-to-8 Line Decoder/Demux	16-DHVQFN	903.24/3,000		
74HC138D	568-3952-5-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.38	.31	.21
74HC138D-T	568-1397-1-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.38	.31	.21
74HC138D-T	568-1397-2-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	246.50/2,500		
74HC138N	568-1398-5-ND	3-to-8 Line Decoder/Demux, Inverting	16-Dip	.45	.37	.28
74HC139D	568-1399-5-ND	Dual 2-to-4 Line Decoder/Demux	16-SOIC	.46	.38	.26
74HC139DB	568-2608-5-ND	Dual 2-to-4 Line Decoder/Demux	16-SSOP	.59	.45	.34
74HC139N	568-1400-5-ND	Dual 2-to-4 Line Decoder/Demux	16-Dip	.45	.37	.28
74HC147DB	568-2609-5-ND	10-to-4 Line Priority Encoder	16-SSOP	.97	.73	.55
74HC151D	568-1403-5-ND	8-Input Multiplexer	16-SOIC	.43	.35	.26
74HC151DB	568-2612-5-ND	8-Input Multiplexer	16-SSOP	.88	.67	.50
74HC153D	568-1404-5-ND	Dual 4-Input Multiplexer	16-SOIC	.43	.35	.26
74HC153DB	568-2613-5-ND	Dual 4-Input Multiplexer	16-SSOP	.84	.64	.48
74HC153N	568-1405-5-ND	Dual 4-Input Multiplexer	16-Dip	.53	.43	.32
74HC154D	568-1406-5-ND	4-to-16 Line Decoder/Demux	24-SOIC	.90	.75	.60
74HC154DB	568-2614-5-ND	4-to-16 Line Decoder/Demux	24-SSOP	1.37	1.10	.83
74HC154N	568-1407-5-ND	4-to-16 Line Decoder/Demux	24-Dip	1.10	.92	.74
74HC157D	568-2615-5-ND	Quad 2-Input Multiplexer	16-SOIC	.43	.35	.26
74HC157DB	568-2616-5-ND	Quad 2-Input Multiplexer	16-SSOP	.72	.54	.41
74HC160DB	568-2617-5-ND	Presettable Sync. BCD Decade Counter	16-SSOP	.84	.64	.48
74HC161DB	568-2618-5-ND	Presettable Sync. 4-Bit Binary Counter	16-SSOP	.84	.64	.48
74HC163DB	568-2619-5-ND	Presettable Sync. 4-Bit Binary Counter	16-SSOP	.84	.64	.48
74HC164DB	568-2620-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SSOP	.84	.64	.48
74HC164D-T	568-1408-1-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.45	.37	.26
74HC164D-T	568-1408-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	296.23/2,500		
74HC164N	568-2621-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.48	.38	.29
74HC165D	568-3954-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.42	.34	.25
74HC165D-T	568-1409-1-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.42	.34	.25
74HC165D-T	568-1409-2-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	280.13/2,500		
74HC165DB	568-2622-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SSOP	.84	.64	.48
74HC165N	568-1410-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.50	.40	.30
74HC165PW	568-2623-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-TSSOP	.44	.36	.27
74HC166D	568-2624-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.50	.40	.30
74HC166DB	568-2625-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SSOP	.84	.64	.48
74HC166N	568-2626-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.61	.46	.35
74HC173DB	568-2627-5-ND	Tri-State, Quad D-Type Flip-Flop, Positive-Edge-Triggered	16-SSOP	.93	.70	.53
74HC173N	568-1411-5-ND	Tri-State, Quad D-Type Flip-Flop, Positive-Edge-Triggered	16-Dip	.61	.46	.35
74HC174D	568-2628-5-ND	Hex D-Type Flip-Flop, Positive-Edge-Triggered	16-SOIC	.50	.40	.30
74HC174DB	568-2629-5-ND	Hex D-Type Flip-Flop, Positive-Edge-Triggered	16-SSOP	.80	.60	.45
74HC175D	568-2630-5-ND	Quad D-Type Flip-Flop, Positive-Edge-Triggered	16-SOIC	.46	.37	.28
74HC175DB	568-2631-5-ND	Quad D-Type Flip-Flop, Positive-Edge-Triggered	16-SSOP	.80	.60	.45
74HC191D	568-2632-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-SOIC	.55	.42	.32
74HC191DB	568-2633-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-SSOP	.79	.66	.53
74HC191N	568-1412-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-Dip	.54	.41	.31
74HC193D	568-1413-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-SOIC	.62	.47	.36
74HC193DB	568-2634-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-SSOP	.79	.66	.53
74HC194DB	568-2635-5-ND	4-Bit Bidirectional Univerals Shift Register	16-SSOP	.93	.70	.53
74HC221D	568-1415-5-ND	Dual Non-Retriggerable Mono Multivibrator with Reset	16-SOIC	.63	.48	.36
74HC221DB	568-2644-5-ND	Dual Non-Retriggerable Mono Multivibrator with Reset	16-SSOP	.88	.74	.59
74HC237DB	568-2645-5-ND	3-to-8 Line Decoder/Demux with Address Latches	16-SSOP	.79	.66	.53
74HC237N	568-1416-5-ND	3-to-8 Line Decoder/Demux with Address Latches	16-Dip	.69	.52	.39
74HC238D-T	568-1417-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	.88	.66	.50
74HC238D-T	568-1417-2-ND	3-to-8 Line Decoder/Demux	16-SOIC	715.00/2,500		
74HC238DB	568-2646-5-ND	3-to-8 Line Decoder/Demux	16-SSOP	.79	.66	.53
74HC238N	568-1418-5-ND	3-to-8 Line Decoder/Demux	16-Dip	.69	.52	.39
74HC240D	568-2647-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.42	.34	.25
74HC240DB	568-2648-5-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.80	.60	.45
74HC240N	568-2649-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.53	.42	.32
74HC241DB	568-2650-5-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.82	.69	.55
74HC241N	568-1419-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.61	.46	.35
74HC243DB	568-2651-5-ND	Tri-State Quad Bus Transceiver	14-SSOP	.80	.60	.45
74HC244BQ-G	568-2652-1-ND	Tri-State Octal Buffer/Line Driver	20-DHVQFN	.91	.76	.61
74HC244BQ-G	568-2652-2-ND	Tri-State Octal Buffer/Line Driver	20-DHVQFN	1182.48/3,000		
74HC244D	568-3955-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.40	.32	.24
74HC244D-T	568-1420-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.42	.34	.25
74HC244D-T	568-1420-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	232.40/2,000		
74HC244N	568-1421-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.58	.47	.35
74HC245D	568-3956-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.42	.34	.25
74HC245D-T	568-1422-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.42	.34	.25
74HC245D-T	568-1422-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	232.40/2,000		
74HC245N	568-1423-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.58	.47	.35
74HC245PW	568-2653-5-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.44	.36	.27
74HC251D	568-1424-5-ND	Tri-State 8-Input Multiplexer	16-SOIC	.46	.37	.28
74HC257D	568-2654-5-ND	Tri-State Quad 2-Input Mux	16-SOIC	.45	.36	.27
74HC257DB	568-2655-5-ND	Tri-State Quad 2-Input Mux	16-SSOP	.97	.73	.55
74HC257N	568-1425-5-ND	Tri-State Quad 2-Input Mux	16-Dip	.61	.46	.35
74HC258DB	568-2656-5-ND	Tri-State Quad 2-Input Mux	16-SSOP	.97	.73	.55
74HC259D	568-1426-5-ND	8-Bit Addressable Latch	16-SOIC	.42	.34	.25
74HC259DB	568-2657-5-ND	8-Bit Addressable Latch	16-SSOP	.84	.64	.48
74HC259N	568-1427-5-ND	8-Bit Addressable Latch	16-Dip	.55	.44	.33
74HC273D	568-3957-5-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	.42	.34	.25
74HC273D-T	568-1428-1-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	.42	.34	.25
74HC273D-T	568-1428-2-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	232.40/2,000		
74HC273N	568-1429-5-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-Dip	.50	.38	.29
74HC283DB	568-2660-5-ND	4-Bit Binary Full Adder	16-SSOP	.79	.66	.53
74HC299DB	568-2661-5-ND	Tri-State 8-Bit Universal Shift Register	20-SSOP	1.32	1.06	.79
74HC299N	568-1430-5-ND	Tri-State 8-Bit Universal Shift Register	20-Dip	1.42	1.19	.95
74HC365D	568-2665-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.58	.46	.35
74HC365DB	568-2666-5-ND	Tri-State Hex Buffer/Line Driver	16-SSOP	.97	.73	.55
74HC365N	568-1435-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.78	.59	.44
74HC366D	568-2667-5-ND	Tri-State Hex Buffer/Line Driver, Inverting	16-SOIC	.50	.38	.29
74HC367D	568-1436-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.48	.36	.27
74HC367DB	568-2668-5-ND	Tri-State Hex Buffer/Line Driver	16-SSOP	.97	.73	.55
74HC368DB	568-2669-5-ND	Tri-State Hex Buffer/Line Driver, Inverting	16-SSOP	.84	.64	.48
74HC373D	568-3959-5-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.40	.32	.24
74HC373D-T	568-1437-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.42	.34	.25
74HC373D-T	568-1437-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	232.40/2,000		
74HC373N	568-1438-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.50	.38	.29
74HC374D	568-3960-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.40	.32	.24
74HC374D-T	568-1439-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.42	.34	.25
74HC374D-T	568-1439-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	232.40/2,000		
74HC374N	568-1440-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.50	.38	.29
74HC377D	568-2670-5-ND	Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.49	.37	.28
74HC377DB	568-2671-5-ND	Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SSOP	.84	.64	.48
74HC377N	568-1441-5-ND	Octal D-Type Flip-Flop with Data Enable, Positive-Edge Triggered	20-Dip	.71	.54	.41
74HC390D	568-2672-5-ND	Dual Decade Ripple Counter	16-SOIC	.49	.37	.28
74HC390DB	568-2673-5-ND	Dual Decade Ripple Counter	16-SSOP	.93	.70	.53
74HC390N	568-1442-5-ND	Dual Decade Ripple Counter	16-Dip	.71	.54	.41
74HC393BQ-G	568-2674-1-ND	Dual 4-Bit Binary Ripple Counter	14-DHVQFN	.64	.48	.36
74HC393BQ-G	568-2674-2-ND	Dual 4-Bit Binary Ripple Counter	14-DHVQFN	624.00/3,000		
74HC393D-T	568-1443-1-ND	Dual 4-Bit Binary Ripple Counter	14-SOIC	.42	.34	.25
74HC393D-T	568-1443-2-ND	Dual 4-Bit Binary Ripple Counter	14-SOIC	280.13/2,500		
74HC393N	568-1444-5-ND	Dual 4-Bit Binary Ripple Counter	14-Dip	.61	.46	.35
74HC423D	568-1467-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	.53	.40	.30
74HC423N	568-1468-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-Dip	.84	.63	.48
74HC540D	568-2708-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.55	.42	.32
74HC540DB	568-2709-5-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.85	.72	.57
74HC540N	568-1473-5-ND	Tri-State Octal Buffer/Line Driver, Inverting	20-Dip	.71	.54	.41
74HC541D	568-3965-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.42	.34	.25
74HC541D-T	568-1474-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.42	.34	.25
74HC541D-T	568-1474-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	232.40/2,000		
74HC541DB	568-2710-5-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.76	.64	.51
74HC541N	568-1475-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.50	.38	.29
74HC563N	568-1476-5-ND	Tri-State Octal D-Type Transparent Latch, Inverting	20-Dip	.92	.70	.52
74HC573BQ-G	568-2713-1-ND	Tri-State Octal D-Type Transparent Latch	20-DHVQFN	.91	.76	.61
74HC573BQ-G	568-2713-2-ND	Tri-State Octal D-Type Transparent Latch	20-DHVQFN	1182.48/3,000		
74HC573D	568-3966-5-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.42	.34	.25
74HC573D-T	568-1477-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.76	.57	.43
74HC573D-T	568-1477-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	505.40/2,000		
74HC573DB	568-2714-5-ND	Tri-State Octal D-Type Transparent Latch	20-SSOP	.80	.60	.45
74HC573N	568-1478-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.50	.38	.29
74HC573PW-T	568-2264-1-ND	Tri-State Octal D-Type Transparent Latch	20-TSSOP	.44	.36	.27
74HC573PW-T	568-2264-2-ND	Tri-State Octal D-Type Transparent Latch	20-TSSOP	297.00/2,500		
74HC574D	568-3967-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.42	.34	.25
74HC574D-T	568-1479-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.42	.34	.25
74HC574D-T	568-1479-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	232.40/2,000		

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NXP Semiconductors

DIGITAL LOGIC *(Continued)* — RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74HC574DB	568-2715-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SSOP	.80	.60	.45
74HC574N	568-1480-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.50	.38	.29
74HC594D	568-1482-5-ND	8-Bit Shift Register w/Output Register	16-SOIC	.58	.44	.33
74HC594DB	568-2718-5-ND	8-Bit Shift Register with Output Register	16-SSOP	2.05	1.65	1.24
74HC595BQ-G	568-2719-1-ND	Tri-State 8-Bit Serial-In Serial or Parallel-Out Shift Register	16-DHVQFN	.91	.76	.61
74HC595BQ-G	568-2719-2-ND	Tri-State 8-Bit Serial-In Serial or Parallel-Out Shift Register	16-DHVQFN	1182.48/3,000		
74HC595D	568-3968-5-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-SOIC	.46	.38	.26
74HC595D-T	568-1483-1-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-SOIC	.78	.59	.44
74HC595D-T	568-1483-2-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-SOIC	633.75/2,500		
74HC595DB	568-2720-5-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-SSOP	.82	.69	.55
74HC595N	568-1484-5-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-Dip	.50	.38	.29
74HC595PW-T	568-2263-1-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-TSSOP	.44	.36	.27
74HC595PW-T	568-2263-2-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-TSSOP	297.00/2,500		
74HC597D	568-1485-5-ND	8-Bit Shift Register w/Input Flip-Flop	16-SOIC	.53	.40	.30
74HC597DB	568-2721-5-ND	8-Bit Shift Register w/Input Flip-Flop	16-SSOP	.88	.74	.59
74HC597N	568-1486-5-ND	8-Bit Shift Register w/Input Flip-Flop	16-Dip	.78	.59	.44
74HC640DB	568-2723-5-ND	Tri-State Octal Bus Transceiver	20-SSOP	.95	.79	.64
74HC646DB	568-2724-5-ND	Tri-State Octal Bus Transceiver/Register	24-SSOP	1.89	1.52	1.14
74HC652DB	568-2725-5-ND	Tri-State Octal Bus Transceiver/Register	24-SSOP	1.89	1.52	1.14
74HC670DB	568-2726-5-ND	Tri-State 4 x 4 Register File	16-SSOP	1.11	.93	.74
74HC688D	568-2727-5-ND	8-Bit Magnitude Comparator	20-SOIC	.56	.42	.32
74HC688DB	568-2728-5-ND	8-Bit Magnitude Comparator	20-SSOP	.82	.69	.55
74HC688N	568-1487-5-ND	8-Bit Magnitude Comparator	20-Dip	.92	.70	.52
74HC4002DB	568-2675-5-ND	Dual 4-Input NOR Gate	14-SSOP	.51	.38	.29
74HC4015DB	568-2682-5-ND	Dual 4-Bit Shift Register	16-SSOP	.88	.67	.50
74HC4017D	568-1446-5-ND	Johnson Decade Counter with 10-Decoded Outputs	16-SOIC	.52	.39	.30
74HC4017DB	568-2683-5-ND	Johnson Decade Counter with 10-Decoded Outputs	16-SSOP	.82	.69	.55
74HC4017N	568-1447-5-ND	Johnson Decade Counter with 10-Decoded Outputs	16-Dip	.78	.59	.44
74HC4020D	568-2684-5-ND	14-Stage Binary Ripple Counter	16-SOIC	.58	.46	.35
74HC4020DB	568-2685-5-ND	14-Stage Binary Ripple Counter	16-SSOP	.79	.66	.53
74HC4024D	568-1448-5-ND	7-Stage Binary Ripple Counter	14-SOIC	.74	.56	.42
74HC4024DB	568-2686-5-ND	7-Stage Binary Ripple Counter	14-SSOP	.93	.70	.53
74HC4024N	568-1449-5-ND	7-Stage Binary Ripple Counter	14-Dip	.80	.60	.45
74HC4040D	568-1450-5-ND	12-Stage Binary Ripple Counter	16-SOIC	.47	.38	.29
74HC4040N	568-1451-5-ND	12-Stage Binary Ripple Counter	16-Dip	.63	.48	.36
74HC4046AD	568-1452-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.60	.45	.34
74HC4046ADB	568-2687-5-ND	Phase-Locked-Loop with VCO	16-SSOP	1.29	1.08	.87
74HC4049D	568-2688-5-ND	Hex Inverting Level Shifter	16-SOIC	.71	.54	.41
74HC4049DB	568-2689-5-ND	Hex Inverting Level Shifter	16-SSOP	.97	.73	.55
74HC4050D	568-1453-5-ND	Hex High-to-Low Level Shifter	16-SOIC	.47	.38	.29
74HC4050DB	568-2690-5-ND	Hex High-to-Low Level Shifter	16-SSOP	.93	.70	.53
74HC4051D-T	568-1454-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.76	.57	.43
74HC4051D	568-3961-5-ND	8-Channel Analog Mux/Demux	16-SOIC	.48	.39	.27
74HC4051D-T	568-1454-2-ND	8-Channel Analog Mux/Demux	16-SOIC	617.50/2,500		
74HC4051DB	568-2691-5-ND	8-Channel Analog Mux/Demux	16-SSOP	.88	.67	.50
74HC4051N	568-1455-5-ND	8-Channel Analog Mux/Demux	16-Dip	.55	.44	.33
74HC4051PW-T	568-2259-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.40	.32	.24
74HC4051PW-T	568-2259-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	270.00/2,500		
74HC4052D	568-3962-5-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.42	.34	.25
74HC4052D-T	568-1456-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.76	.57	.43
74HC4052D-T	568-1456-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	617.50/2,500		
74HC4052DB	568-2692-5-ND	Dual 4-Channel Analog Mux/Demux	16-SSOP	.88	.67	.50
74HC4052N	568-1457-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.55	.41	.31
74HC4052PW	568-2693-5-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	.44	.36	.27
74HC4053D	568-3963-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.46	.37	.26
74HC4053D-T	568-1458-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.76	.57	.43
74HC4053D-T	568-1458-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	617.50/2,500		
74HC4053DB	568-2694-5-ND	Triple 2-Channel Analog Mux/Demux	16-SSOP	.88	.67	.50
74HC4053N	568-1459-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.55	.41	.31
74HC4059D	568-2695-5-ND	Programmable Divide-By-N Counter	24-SOIC	1.97	1.58	1.19
74HC4059DB	568-2696-5-ND	Programmable Divide-By-N Counter	24-SSOP	2.37	1.90	1.43
74HC4060D	568-1460-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-SOIC	.58	.46	.35
74HC4060N	568-1461-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-Dip	.69	.52	.39
74HC4066D	568-3964-5-ND	Quad Bilateral Switch	14-SOIC	.40	.33	.23
74HC4066D-T	568-1462-1-ND	Quad Bilateral Switch	14-SOIC	.40	.33	.23
74HC4066D-T	568-1462-2-ND	Quad Bilateral Switch	14-SOIC	263.50/2,500		
74HC4066N	568-1463-5-ND	Quad Bilateral Switch	14-Dip	.50	.38	.29
74HC4066PW	568-2697-5-ND	Quad Bilateral Switch	14-TSSOP	.49	.40	.28
74HC4067D	568-2698-5-ND	16-Channel Analog Mux/Demux	24-SOIC	.78	.59	.44
74HC4067PW	568-2699-5-ND	16-Channel Analog Mux/Demux	24-TSSOP	2.37	1.90	1.43
74HC4075D	568-1464-5-ND	Triple 3-Input OR Gate	14-SOIC	.58	.46	.35
74HC4075DB	568-2700-5-ND	Triple 3-Input OR Gate	14-SSOP	.55	.42	.31
74HC4094D	568-1465-5-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	.47	.38	.29
74HC4094D-T	568-2265-1-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	.47	.38	.29
74HC4094D-T	568-2265-2-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	315.56/2,500		
74HC4094N	568-1466-5-ND	8-Stage Shift-and-Store Bus Register	16-Dip	.71	.54	.41
74HC4316D	568-1470-5-ND	Quad Bilateral Switch	16-SOIC	.58	.46	.35
74HC4316D-T	568-2260-1-ND	Quad Bilateral Switch	16-SOIC	.88	.66	.50
74HC4316D-T	568-2260-2-ND	Quad Bilateral Switch	16-SOIC	715.00/2,500		
74HC4316DB	568-2701-5-ND	Quad Bilateral Switch	16-SSOP	.95	.79	.64
74HC4351DB	568-2702-5-ND	8-Channel Mux/Demux	20-SSOP	1.04	.87	.70
74HC4514D	568-2703-5-ND	4-to-16 Line Decoder/Demultiplexer	24-SOIC	.99	.83	.66
74HC4514DB	568-2704-5-ND	4-to-16 Line Decoder/Demultiplexer	24-SSOP	1.53	1.23	.92
74HC4520DB	568-2705-5-ND	Dual 4-Bit Sync. Binary Counter	16-SSOP	.95	.79	.64
74HC4520PW	568-2706-5-ND	Dual 4-Bit Sync. Binary Counter	16-TSSOP	.88	.74	.59
74HC4538D	568-1471-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-SOIC	.50	.38	.29
74HC4538DB	568-2707-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-SSOP	.92	.77	.62
74HC4538N	568-1472-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-Dip	.63	.48	.36
74HC5555D	568-2711-5-ND	Programmable Delay Timer	16-SOIC	1.30	1.04	.78
74HC5555N	568-2712-5-ND	Programmable Delay Timer	16-Dip	1.30	1.04	.78
74HC6323AD	568-2722-5-ND	Tri-State Programmable Ripple Counter	8-SOIC	.93	.78	.62
74HC7014D	568-1488-5-ND	Hex Non-Inverting Precision Schmitt-Trigger	14-SOIC	1.30	1.09	.87
74HC7014N	568-2729-5-ND	Hex Non-Inverting Precision Schmitt-Trigger	14-Dip	1.30	1.09	.87
74HC7030D	568-2730-5-ND	Tri-St. 9-Bit x 64 Word FIFO Register	28-SOIC	5.40	4.32	3.36
74HC7030N	568-2731-5-ND	Tri-State 9-Bit x 64 Word FIFO Register	28-Dip	5.40	4.32	3.36
74HC7046ADB	568-2732-5-ND	PLL with Lock Detector	16-SSOP	1.89	1.52	1.14
74HC7266D	568-2733-5-ND	Quad 2-Input Exclusive NOR Gate	14-SOIC	.72	.54	.41
74HC7266DB	568-2734-5-ND	Quad 2-Input Exclusive NOR Gate	14-SSOP	.97	.73	.55
74HC7403N	568-2737-5-ND	Tri-State 4-Bit x 64-Word FIFO Register	16-Dip	2.49	1.99	1.55
74HC7540D	568-2739-5-ND	Tri-State Octal Schmitt Trigger Buffer/ Line Driver, Inverting	20-SOIC	1.34	1.12	.90
74HC7540DB	568-2740-5-ND	Tri-State Octal Schmitt Trigger Buffer/ Line Driver, Inverting	20-SSOP	1.34	1.12	.90
74HC7540N	568-2741-5-ND	Tri-State Octal Schmitt Trigger Buffer/Line Driver, Inverting	20-Dip	1.34	1.12	.90
74HC7541D	568-2742-5-ND	Tri-State Octal Schmitt Trigger Buffer/Line Driver	20-SOIC	1.34	1.12	.90
74HC7541DB	568-1492-5-ND	Tri-State Octal Schmitt Trigger Buffer/Line Driver	20-SSOP	1.34	1.12	.90
74HC7541N	568-2743-5-ND	Tri-State Octal Schmitt Trigger Buffer/Line Driver	20-Dip	1.34	1.12	.90
74HC7731D	568-2746-5-ND	Quad 64-Bit Static Shift Register	16-SOIC	3.87	3.10	2.41
74HC7731N	568-2747-5-ND	Quad 64-Bit Static Shift Register	16-Dip	3.87	3.10	2.41
74HC9114D	568-2750-5-ND	Nine Wide Schmitt Trigger Buffer, Open Drain Output, Inverting	20-SOIC	1.33	1.07	.80
74HC9114N	568-2751-5-ND	Nine Wide Schmitt Trigger Buffer, Open Drain Output, Inverting	20-Dip	1.33	1.07	.80
74HC9115D	568-2752-5-ND	Nine Wide Schmitt Trigger Buffer, Open Drain Output	20-SOIC	1.14	.95	.76
74HC9115N	568-2753-5-ND	Nine Wide Schmitt Trigger Buffer, Open Drain Output	20-Dip	1.14	.95	.76
74HC40103D	568-2676-5-ND	8-Bit Sync. Binary Down Counter	16-SOIC	.92	.69	.52
74HC40103DB	568-2677-5-ND	8-Bit Sync. Binary Down Counter	16-SSOP	1.11	.93	.74
74HC40103N	568-1445-5-ND	8-Bit Sync. Binary Down Counter	16-Dip	1.02	.85	.68
74HC40103PW	568-2678-5-ND	8-Bit Sync. Binary Down Counter	16-TSSOP	1.11	.93	.74
74HC40105D	568-2679-5-ND	4-Bit x 16-Word FIFO Register	16-SOIC	1.33	1.11	.89
74HC40105DB	568-2680-5-ND	4-Bit x 16-Word FIFO Register	16-SSOP	1.33	1.11	.89
74HC40105PW	568-2681-5-ND	4-Bit x 16-Word FIFO Register	16-TSSOP	1.33	1.11	.89
74HC1G00GW-G	568-2636-1-ND	2-Input NAND Gate	SC88A-5	.29	.22	.16
74HC1G00GW-G	568-2636-2-ND	2-Input NAND Gate	SC88A-5	169.20/3,000		
74HC1G02GW-G	568-2637-1-ND	2-Input NOR Gate	SC88A-5	.29	.22	.16
74HC1G02GW-G	568-2637-2-ND	2-Input NOR Gate	SC88A-5	169.20/3,000		
74HC1G04GW-G	568-2638-1-ND	Inverter	SC88A-5	.29	.22	.16
74HC1G04GW-G	568-2638-2-ND	Inverter	SC88A-5	169.20/3,000		
74HC1G08GW-G	568-2639-1-ND	2-Input AND Gate	SC88A-5	.29	.22	.16
74HC1G08GW-G	568-2639-2-ND	2-Input AND Gate	SC88A-5	169.20/3,000		
74HC1G14GW-G	568-2641-1-ND	Inverting Schmitt Trigger	SC88A-5	.29	.22	.16
74HC1G14GW-G	568-2641-2-ND	Inverting Schmitt Trigger	SC88A-5	169.20/3,000		
74HC1G66GW-G	568-2642-1-ND	Bilateral Switch	SC88A-5	.30	.23	.16
74HC1G66GW-G	568-2642-2-ND	Bilateral Switch	SC88A-5	180.00/3,000		
74HC1G125GW-G	568-2640-1-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	.30	.23	.16
74HC1G125GW-G	568-2640-2-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	180.00/3,000		

HCT Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74HCT00BQ-G	568-2756-1-ND	Quad 2-Input NAND Gate	14-DHVQFN	.81	.61	.46
74HCT00BQ-G	568-2756-2-ND	Quad 2-Input NAND Gate	14-DHVQFN	788.19/3,000		
74HCT00D-T	568-1498-1-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.34	.24
74HCT00D-T	568-1498-2-ND	Quad 2-Input NAND Gate	14-SOIC	238.50/2,500		
74HCT00DB	568-2757-5-ND	Quad 2-Input NAND Gate	14-SSOP	.51	.38	.29
74HCT00N	568-1499-5-ND	Quad 2-Input NAND Gate	14-Dip	.42	.34	.25
74HCT02D-T	568-1500-1-ND	Quad 2-Input NOR Gate	14-SOIC	.53	.42	.32
74HCT02D-T	568-1500-2-ND	Quad 2-Input NOR Gate	14-SOIC	354.38/2,500		
74HCT02DB	568-2758-5-ND	Quad 2-Input NOR Gate	14-SSOP	.51	.38	.29
74HCT02N	568-1501-5-ND	Quad 2-Input NOR Gate	14-Dip	.42	.34	.25
74HCT03DB	568-2759-5-ND	Quad 2-Input NAND Gate	14-SSOP	.51	.38	.29
74HCT03PW	568-2760-5-ND	Quad 2-Input NAND Gate	14-TSSOP	.55	.45	.34
74HCT04BQ-G	568-2761-1-ND	Hex Inverter	14-DHVQFN	.80	.60	.45
74HCT04BQ-G	568-2761-2-ND	Hex Inverter	14-DHVQFN	780.00/3,000		
74HCT04D	568-3970-5-ND	Hex Inverter	14-SOIC	.42	.34	.24
74HCT04D-T	568-1502-1-ND	Hex Inverter	14-SOIC	.42	.34	.24
74HCT04D-T	568-1502-2-ND	Hex Inverter	14-SOIC	238.50/2,500		
74HCT04N	568-1503-5-ND	Hex Inverter	14-Dip	.51	.42	.29
74HCT08BQ-G	568-2762-1-ND	Quad 2-Input AND Gate	14-DHVQFN	.80	.60	.45
74HCT08BQ-G	568-2762-2-ND	Quad 2-Input AND Gate	14-DHVQFN	780.00/3,000		
74HCT08D-T	568-1504-1-ND	Quad 2-Input AND Gate	14-SOIC	.42	.34	.24
74HCT08D-T	568-1504-2-ND	Quad 2-Input AND Gate	14-SOIC	238.50/2,500		
74HCT08N	568-1505-5-ND	Quad 2-Input AND Gate	14-Dip	.42	.35	.24
74HCT10DB	568-2766-5-ND	Triple 3-Input NAND Gate	14-SSOP	.51	.38	.29
74HCT10PW	568-2767-5-ND	Triple 3-Input NAND Gate	14-TSSOP	.55	.45	.34
74HCT11DB	568-2770-5-ND	Triple 3-Input AND Gate	14-SSOP	.51	.38	.29
74HCT11PW	568-2771-5-ND	Triple 3-Input AND Gate	14-TSSOP	.55	.45	.34
74HCT14BQ-G	568-2778-1-ND	Hex Inverting Schmitt Trigger	14-DHVQFN	.81	.61	.46
74HCT14BQ-G	568-2778-2-ND	Hex Inverting Schmitt Trigger	14-DHVQFN	788.19/3,000		
74HCT14D	568-3971-5-ND	Hex Inverting Schmitt Trigger	14-SOIC	.42	.34	.24
74HCT14D-T	568-1515-1-ND	Hex Inverting Schmitt Trigger	14-SOIC	.42	.34	.24
74HCT14D-T	568-1515-2-ND	Hex Inverting Schmitt Trigger	14-SOIC	238.50/2,500		
74HCT14N	568-1516-5-ND	Hex Inverting Schmitt Trigger	14-Dip	.51	.42	.29
74HCT20DB	568-2801-5-ND	Dual 4-Input NAND Gate	14-SSOP	.51	.38	.29
74HCT27DB	568-2817-5-ND	Triple 3-Input NOR Gate	14-SSOP	.55	.42	.31

(Continued)

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74HCT30DB	568-2821-5-ND	8-Input NAND Gate	14-SSOP	.53	.43	.32
74HCT32BQ-G	568-2822-1-ND	Quad 2-Input OR Gate	14-DHVQFN	.81	.61	.46
74HCT32BQ-G	568-2822-2-ND	Quad 2-Input OR Gate	14-DHVQFN	788.19/3,000		
74HCT32D	568-2823-5-ND	Quad 2-Input OR Gate	14-SOIC	.38	.30	.22
74HCT32D-T	568-1536-1-ND	Quad 2-Input OR Gate	14-SOIC	.42	.34	.24
74HCT32D-T	568-1536-2-ND	Quad 2-Input OR Gate	14-SOIC	238.50/2,500		
74HCT32N	568-1537-5-ND	Quad 2-Input OR Gate	14-Dip	.51	.42	.29
74HCT42D	568-2870-5-ND	BCD to Decimal Decoder	16-SOIC	.88	.74	.59
74HCT74BQ-G	568-2905-1-ND	Dual D-Type Flip-Flop with Set and Reset Positive-Edge-Triggered	14-DHVQFN	.81	.61	.46
74HCT74BQ-G	568-2905-2-ND	Dual D-Type Flip-Flop with Set and Reset Positive-Edge-Triggered	14-DHVQFN	788.19/3,000		
74HCT74D-T	568-1565-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	.42	.34	.24
74HCT74D-T	568-1565-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	238.50/2,500		
74HCT74N	568-1566-5-ND	Dual D-Type Flip-Flop with Set and Reset Positive-Edge-Triggered	14-Dip	.51	.42	.29
74HCT85DB	568-2911-5-ND	4-Bit Magnitude Comparator	16-SSOP	.84	.64	.48
74HCT85N	568-1760-5-ND	4-Bit Magnitude Comparator	16-Dip	.80	.60	.45
74HCT86D	568-2912-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.42	.34	.24
74HCT86N	568-1569-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.58	.46	.35
74HCT93D	568-2919-5-ND	4-Bit Binary Ripple Counter	14-SOIC	.76	.64	.51
74HCT107D	568-2763-5-ND	Dual JK Flip-Flop with Reset, Negative-Edge-Triggered	14-SOIC	.59	.45	.34
74HCT109DB	568-2764-5-ND	Dual JK Flip-Flop with Set and Reset Positive-Edge-Triggered	16-SSOP	.59	.45	.34
74HCT109PW	568-2765-5-ND	Dual JK Flip-Flop with Set and Reset Positive-Edge-Triggered	16-TSSOP	.59	.45	.34
74HCT112D	568-1506-5-ND	Dual JK Flip-Flop with Set and Reset, Negative-Edge-Triggered	16-SOIC	.67	.51	.38
74HCT112DB	568-2768-5-ND	Dual JK Flip-Flop with Set and Reset Negative-Edge-Triggered	16-SSOP	.67	.51	.38
74HCT112PW	568-2769-5-ND	Dual JK Flip-Flop with Set and Reset Negative-Edge-Triggered	16-TSSOP	.67	.51	.38
74HCT123D	568-1507-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	.49	.40	.27
74HCT123DB	568-2772-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SSOP	.88	.74	.59
74HCT123N	568-1508-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-Dip	.55	.41	.31
74HCT123PW	568-2773-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-TSSOP	.74	.56	.42
74HCT125D-T	568-1509-1-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	.39	.32	.22
74HCT125D-T	568-1509-2-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	255.00/2,500		
74HCT125N	568-1510-5-ND	Tri-State Quad Buffer/Line Driver	14-Dip	.46	.37	.28
74HCT132D	568-2774-5-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.45	.37	.25
74HCT132DB	568-2775-5-ND	Quad 2-Input NAND Schmitt Trigger	14-SSOP	.67	.51	.38
74HCT132N	568-1511-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.46	.37	.28
74HCT138D-T	568-1512-1-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.45	.37	.25
74HCT138D-T	568-1512-2-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	293.25/2,500		
74HCT138N	568-1513-5-ND	3-to-8 Line Decoder/Demux, Inverting	16-Dip	.46	.37	.28
74HCT139D	568-2776-5-ND	Dual 2-to-4 Linde Decoder/Demux	16-SOIC	.45	.37	.25
74HCT139N	568-1514-5-ND	Dual 2-to-4 Line Decoder/Demux	16-Dip	.45	.37	.25
74HCT147D	568-2777-5-ND	10-to-4 Line Priority Encoder	16-SOIC	.88	.74	.59
74HCT151D	568-2779-5-ND	8-Input Multiplexer	16-SOIC	.47	.38	.29
74HCT151DB	568-2780-5-ND	8-Input Multiplexer	16-SSOP	.84	.64	.48
74HCT151PW	568-2781-5-ND	8-Input Multiplexer	16-TSSOP	.72	.54	.41
74HCT153D	568-1517-5-ND	Dual 4-Input Multiplexer	16-SOIC	.56	.45	.34
74HCT153DB	568-2782-5-ND	Dual 4-Input Multiplexer	16-SSOP	.84	.64	.48
74HCT153PW	568-2783-5-ND	Dual 4-Input Multiplexer	16-TSSOP	.72	.54	.41
74HCT154DB	568-2784-5-ND	4-to-16 Line Decoder/Demux	24-SSOP	1.53	1.23	.92
74HCT154N	568-1518-5-ND	4-to-16 Line Decoder/Demux	24-Dip	1.07	.90	.72
74HCT154PW	568-2785-5-ND	4-to-16 Line Decoder/Demux	24-TSSOP	1.48	1.24	.99
74HCT157D	568-2786-5-ND	Quad 2-Input Multiplexer	16-SOIC	.50	.40	.30
74HCT157DB	568-2787-5-ND	Quad 2-Input Multiplexer	16-SSOP	.84	.64	.48
74HCT157N	568-1519-5-ND	Quad 2-Input Multiplexer	16-Dip	.65	.49	.37
74HCT161DB	568-2788-5-ND	Presettable Sync. 4-Bit Binary Counter Async. Reset	16-SSOP	.84	.64	.48
74HCT163DB	568-2789-5-ND	Presettable Sync. 4-Bit Binary Counter Sync. Reset	16-SSOP	.97	.73	.55
74HCT164BQ-G	568-2790-1-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-DHVQFN	.56	.42	.32
74HCT164BQ-G	568-2790-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-DHVQFN	546.00/3,000		
74HCT164D	568-2791-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.46	.37	.28
74HCT164DB	568-2792-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SSOP	.82	.69	.55
74HCT164N	568-1520-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.61	.46	.35
74HCT165D	568-1521-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.55	.42	.32
74HCT165DB	568-2793-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SSOP	.97	.73	.55
74HCT165N	568-1522-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.61	.46	.35
74HCT166DB	568-2794-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SSOP	.84	.64	.48
74HCT173DB	568-2795-5-ND	Tri-State Quad D-Type Flip-Flop, Positive-Edge-Triggered	16-SSOP	.93	.70	.53
74HCT174D	568-2796-5-ND	Hex D-Type Flip-Flop with Reset, Positive-Edge-Triggered	16-SOIC	.55	.44	.33
74HCT174N	568-1523-5-ND	Hex D-Type Flip-Flop with Reset Positive-Edge-Triggered	16-Dip	.61	.46	.35
74HCT175D	568-1524-5-ND	Quad D-Type Flip-Flop with Reset Positive-Edge-Triggered	16-SOIC	.55	.42	.32
74HCT175DB	568-2797-5-ND	Quad D-Type Flip-Flop with Reset, Positive-Edge-Triggered	16-SSOP	.84	.64	.48
74HCT175N	568-1525-5-ND	Quad D-Type Flip-Flop with Reset Positive-Edge-Triggered	16-Dip	.61	.46	.35
74HCT175PW	568-2798-5-ND	Quad D-Type Flip-Flop with Reset, Positive-Edge-Triggered	16-TSSOP	.80	.60	.45
74HCT193D	568-1526-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-SOIC	.89	.67	.51

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74HCT193DB	568-2799-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-SSOP	.82	.69	.55
74HCT194D	568-2800-5-ND	4-Bit Bidirectional Universal Shift Register	16-SOIC	.93	.70	.53
74HCT221D	568-2802-5-ND	Dual Non-Retriggerable Monostable Multivibrator with Reset	16-SOIC	.84	.63	.48
74HCT221DB	568-2803-5-ND	Dual Non-Retriggerable Monostable Multivibrator with Reset	16-SSOP	.95	.79	.64
74HCT238D	568-2804-5-ND	3-to-8 Line Decoder/Demux	16-SOIC	.57	.43	.33
74HCT238DB	568-2805-5-ND	3-to-8 Line Decoder/Demux	16-SSOP	.79	.66	.53
74HCT238PW	568-2806-5-ND	3-to-8 Line Decoder/Demux	16-TSSOP	.88	.67	.50
74HCT240DB	568-2807-5-ND	Tri-State Octal Buffer/Line Driver, Inverting	20-SSOP	.80	.60	.45
74HCT240N	568-1527-5-ND	Tri-State Octal Buffer/Line Driver, Inverting	20-Dip	.50	.38	.29
74HCT241DB	568-2808-5-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.80	.60	.45
74HCT244D	568-3972-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.51	.41	.29
74HCT244D-T	568-1528-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.54	.44	.30
74HCT244D-T	568-1528-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	298.80/2,000		
74HCT244N	568-1529-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.50	.40	.30
74HCT245D	568-3973-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.42	.34	.25
74HCT245D-T	568-1530-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.42	.34	.25
74HCT245D-T	568-1530-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	232.40/2,000		
74HCT245N	568-1531-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.50	.38	.29
74HCT245PW	568-2809-5-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.44	.36	.27
74HCT251DB	568-2810-5-ND	Tri-State 8-Input Multiplexer	16-SSOP	.76	.57	.43
74HCT251PW	568-2811-5-ND	Tri-State 8-Input Multiplexer	16-TSSOP	.80	.60	.45
74HCT253DB	568-2812-5-ND	Tri-State Dual 4-Input Multiplexer	16-SSOP	.76	.57	.43
74HCT257DB	568-2813-5-ND	Tri-State Quad 2-Input Mux	16-SSOP	.80	.60	.45
74HCT257N	568-2814-5-ND	Tri-State Quad 2-Input Mux	16-Dip	.51	.39	.29
74HCT259D-T	568-1532-1-ND	8-Bit Addressable Latch	16-SOIC	.55	.44	.33
74HCT259D-T	568-1532-2-ND	8-Bit Addressable Latch	16-SOIC	367.88/2,500		
74HCT259DB	568-2815-5-ND	8-Bit Addressable Latch	16-SSOP	.79	.66	.53
74HCT259N	568-1533-5-ND	8-Bit Addressable Latch	16-Dip	.50	.40	.30
74HCT259PW	568-2816-5-ND	8-Bit Addressable Latch	16-TSSOP	.80	.60	.45
74HCT273D	568-3974-5-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	.42	.34	.25
74HCT273D-T	568-1534-1-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	.42	.34	.25
74HCT273D-T	568-1534-2-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	232.40/2,000		
74HCT273N	568-1535-5-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-Dip	.58	.47	.35
74HCT280D	568-2818-5-ND	9-Bit Odd/Even Parity Generator	14-SOIC	.97	.73	.55
74HCT280DB	568-2819-5-ND	9-Bit Odd/Even Parity Generator	14-SSOP	.97	.73	.55
74HCT299DB	568-2820-5-ND	Tri-State 8-Bit Universal Shift Register	20-SSOP	1.32	1.06	.79
74HCT365D	568-2824-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.58	.46	.35
74HCT365DB	568-2825-5-ND	Tri-State Hex Buffer/Line Driver	16-SSOP	.84	.64	.48
74HCT366D	568-2826-5-ND	Tri-State Hex Buffer/Line Driver, Inverting	16-SOIC	.99	.75	.56
74HCT366DB	568-2827-5-ND	Tri-State Hex Buffer/Line Driver, Inverting	16-SSOP	.99	.75	.56
74HCT366N	568-2828-5-ND	Tri-State Hex Buffer/Line Driver, Inverting	16-Dip	.99	.75	.56
74HCT367D	568-1538-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.50	.38	.29
74HCT367DB	568-2829-5-ND	Tri-State Hex Buffer/Line Driver	16-SSOP	.84	.64	.48
74HCT367N	568-1539-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.71	.54	.41
74HCT368DB	568-2830-5-ND	Tri-State Hex Buffer/Line Driver	16-SSOP	.84	.64	.48
74HCT373D-T	568-1540-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.40	.32	.24
74HCT373D-T	568-1540-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	224.00/2,000		
74HCT373DB	568-2831-5-ND	Tri-State Octal D-Type Transparent Latch	20-SSOP	.80	.60	.45
74HCT373N	568-1541-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.55	.41	.31
74HCT374D	568-1542-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.40	.32	.24
74HCT374N	568-1543-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.55	.41	.31
74HCT377DB	568-2832-5-ND	Octal D-Type F/F with Data Enable, Positive-Edge-Triggered	20-SSOP	.97	.73	.55
74HCT377PW	568-2833-5-ND	Octal D-Type F/F with Data Enable, Positive-Edge-Triggered	20-TSSOP	.80	.60	.45
74HCT390DB	568-2834-5-ND	Dual Decade Ripple Counter	16-SSOP	.93	.70	.53
74HCT393BQ-G	568-2835-1-ND	Dual 4-Bit Binary Ripple Counter	14-DHVQFN	.48	.38	.29
74HCT393BQ-G	568-2835-2-ND	Dual 4-Bit Binary Ripple Counter	14-DHVQFN	384.75/3,000		
74HCT393D	568-1568-5-ND	Dual 4-Bit Binary Ripple Counter	14-SOIC	.50	.40	.30
74HCT393DB	568-2836-5-ND	Dual 4-Bit Binary Ripple Counter	14-SSOP	.80	.60	.45
74HCT393N	568-1545-5-ND	Dual 4-Bit Binary Ripple Counter	14-Dip	.67	.51	.38
74HCT423DB	568-2869-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SSOP	.93	.70	.53
74HCT540D	568-2884-5-ND	Tri-State Octal Buffer/Line/Driver, Inverting	20-SOIC	.55	.42	.32
74HCT540DB	568-2885-5-ND	Tri-State Octal Buffer/Line/Driver, Inverting	20-SSOP	.85	.72	.57
74HCT541D	568-1553-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.42	.34	.25
74HCT541N	568-1554-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.55	.44	.33
74HCT563DB	568-2888-5-ND	Octal D-Type Transparent Latch	20-SSOP	.76	.64	.51
74HCT573BQ-G	568-2889-1-ND	Tri-State Octal D-Type Transparent Latch	20-DHVQFN	.91	.76	.61
74HCT573BQ-G	568-2889-2-ND	Tri-State Octal D-Type Transparent Latch	20-DHVQFN	1182.48/3,000		
74HCT573D	568-3975-5-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.42	.34	.25
74HCT573D-T	568-1555-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.42	.34	.25
74HCT573D-T	568-1555-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	232.40/2,000		
74HCT573N	568-1556-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.55	.41	.31

(Continued)

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NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74HCT574D	568-3976-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.42	.34	.25
74HCT574D-T	568-1557-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.76	.57	.43
74HCT574D-T	568-1557-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	505.40/2,000		
74HCT574DB	568-2890-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SSOP	.80	.60	.45
74HCT574N	568-1558-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.55	.41	.31
74HCT594D	568-2891-5-ND	8-Bit Shift Register	16-SOIC	1.49	1.24	1.00
74HCT595BQ-G	568-2892-1-ND	8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-DHVQFN	.91	.76	.61
74HCT595BQ-G	568-2892-2-ND	8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-DHVQFN	1182.48/3,000		
74HCT595D	568-3977-5-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-SOIC	.92	.69	.52
74HCT595D-T	568-1559-1-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-SOIC	.92	.69	.52
74HCT595D-T	568-1559-2-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-SOIC	745.88/2,500		
74HCT595DB	568-2893-5-ND	8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-SSOP	1.15	.97	.77
74HCT595N	568-1560-5-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-Dip	.92	.69	.52
74HCT595PW-T	568-1561-1-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-TSSOP	.79	.66	.53
74HCT595PW-T	568-1561-2-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-TSSOP	855.40/2,500		
74HCT597DB	568-2894-5-ND	8-Bit Shift Register	16-SSOP	.79	.66	.53
74HCT640DB	568-2896-5-ND	Tri-State Octal Bus Transceiver, Inverting	20-SSOP	.95	.79	.64
74HCT640N	568-1562-5-ND	Tri-State Octal Bus Transceiver, Inverting	20-Dip	.87	.73	.58
74HCT646DB	568-2897-5-ND	Tri-State Octal Bus Transceiver/Register	24-SSOP	1.61	1.29	.97
74HCT670DB	568-2898-5-ND	Tri-State 4 x 4 Register File	16-SSOP	1.11	.93	.74
74HCT688D	568-1563-5-ND	8-Bit Magnitude Comparator	20-SOIC	.61	.46	.35
74HCT688DB	568-2899-5-ND	8-Bit Magnitude Comparator	20-SSOP	.95	.79	.64
74HCT688N	568-1564-5-ND	8-Bit Magnitude Comparator	20-Dip	.75	.63	.50
74HCT4002DB	568-2837-5-ND	Dual 4-Input NOR Gate	14-SSOP	.59	.45	.34
74HCT4002N	568-2838-5-ND	Dual 4-Input NOR Gate	14-Dip	.67	.51	.38
74HCT4015D	568-2842-5-ND	Dual 4-Bit Serial-In/Parallel-Out Shift Register	16-SOIC	.78	.65	.52
74HCT4015N	568-2843-5-ND	Dual 4-Bit Serial-In/Parallel-Out Shift Register	16-Dip	.78	.65	.52
74HCT4016D	568-2844-5-ND	Quad Bilateral Switch	14-SOIC	.82	.62	.46
74HCT4016N	568-2845-5-ND	Quad Bilateral Switch	14-Dip	.82	.62	.46
74HCT4017D	568-2846-5-ND	Johnson Decade Counter	16-SOIC	.82	.62	.46
74HCT4017N	568-2847-5-ND	Johnson Decade Counter	16-Dip	.82	.62	.46
74HCT4020DB	568-2848-5-ND	14-Stage Binary Ripple Counter	16-SSOP	.79	.66	.53
74HCT4020PW	568-2849-5-ND	14-Stage Binary Ripple Counter	16-TSSOP	.95	.72	.54
74HCT4040D	568-2850-5-ND	12-Stage Binary Ripple Counter	16-SOIC	.59	.45	.34
74HCT4040DB	568-2851-5-ND	12-Stage Binary Ripple Counter	16-SSOP	.79	.66	.53
74HCT4040N	568-1546-5-ND	12-Stage Binary Ripple Counter	16-Dip	.67	.51	.38
74HCT4040PW	568-2852-5-ND	12-Stage Binary Ripple Counter	16-TSSOP	.84	.64	.48
74HCT4046AD	568-1547-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.72	.54	.41
74HCT4046ADB	568-2853-5-ND	Phase-Locked-Loop with VCO	16-SSOP	1.58	1.27	.95
74HCT4051D-T	568-1548-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.76	.57	.43
74HCT4051D-T	568-1548-2-ND	8-Channel Analog Mux/Demux	16-SOIC	617.50/2,500		
74HCT4051DB	568-2854-5-ND	8-Channel Analog Mux/Demux	16-SSOP	.88	.67	.50
74HCT4052D	568-2855-5-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.55	.44	.33
74HCT4052DB	568-2856-5-ND	Dual 4-Channel Analog Mux/Demux	16-SSOP	.88	.67	.50
74HCT4053D	568-1549-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.42	.34	.25
74HCT4053D-T	568-2254-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.42	.34	.25
74HCT4053D-T	568-2254-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	280.13/2,500		
74HCT4053DB	568-2857-5-ND	Triple 2-Channel Analog Mux/Demux	16-SSOP	.88	.67	.50
74HCT4059D	568-2858-5-ND	Programmable Divide-by-N Counter	24-SOIC	2.51	2.01	1.57
74HCT4059N	568-1550-5-ND	Programmable Divide-by-N Counter	24-Dip	2.51	2.01	1.57
74HCT4060DB	568-2859-5-ND	14-Stage Binary Ripple Counter	16-SSOP	.97	.73	.55
74HCT4066D	568-1551-5-ND	Quad Bilateral Switch	14-SOIC	.47	.39	.27
74HCT4066DB	568-2860-5-ND	Quad Bilateral Switch	14-SSOP	.88	.67	.50
74HCT4066PW	568-1552-5-ND	Quad Bilateral Switch	14-TSSOP	.61	.46	.35
74HCT4067DB	568-2861-5-ND	16-Channel Analog Mux/Demux	24-SSOP	2.37	1.90	1.43
74HCT4067N	568-2862-5-ND	16-Channel Analog Mux/Demux	24-Dip	2.37	1.90	1.43
74HCT4067PW	568-2863-5-ND	16-Channel Analog Mux/Demux	24-TSSOP	2.37	1.90	1.43
74HCT4075D	568-2864-5-ND	Triple 3-Input OR Gate	14-SOIC	.59	.45	.34
74HCT4075DB	568-2865-5-ND	Triple 3-Input OR Gate	14-SSOP	.59	.45	.34
74HCT4075PW	568-2866-5-ND	Triple 3-Input OR Gate	14-TSSOP	.59	.45	.34
74HCT4094D	568-2867-5-ND	8-Stage Shift and Store Bus Register	16-SOIC	.55	.44	.33
74HCT4094DB	568-2868-5-ND	8-Stage Shift and Store Bus Register	16-SSOP	.92	.77	.62
74HCT4316DB	568-2871-5-ND	Quad Bilateral Switch	16-SSOP	1.01	.85	.68
74HCT4316PW	568-2872-5-ND	Quad Bilateral Switch	16-TSSOP	.84	.64	.48
74HCT4351D	568-2873-5-ND	8-Channel Analog Mux/Demux with Latch	20-SOIC	.84	.70	.56
74HCT4351DB	568-2874-5-ND	8-Channel Analog Mux/Demux with Latch	20-SSOP	.88	.74	.59
74HCT4511D	568-2875-5-ND	BCD to 7 Segment Latch/Decoder/Driver	16-SOIC	.79	.66	.53
74HCT4514D	568-2876-5-ND	4-to-16 Line Decoder/Demux	24-SOIC	1.53	1.23	.92
74HCT4514DB	568-2877-5-ND	4-to-16 Line Decoder/Demux	24-SSOP	1.53	1.23	.92
74HCT4514PW	568-2878-5-ND	4-to-16 Line Decoder/Demux	24-TSSOP	1.53	1.23	.92
74HCT4515D	568-2879-5-ND	4-to-16 Line Decoder/Demux	24-SOIC	1.79	1.44	1.08
74HCT4520DB	568-2880-5-ND	Dual 4-Bit Sync. Binary Counter	16-SSOP	.92	.77	.62
74HCT4538D	568-2881-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-SOIC	.56	.42	.32
74HCT4538DB	568-2882-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-SSOP	.92	.77	.62
74HCT4538PW	568-2883-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-TSSOP	.87	.73	.58
74HCT5555D	568-2886-5-ND	Programmable Delay Timer with Oscillator	16-SOIC	1.73	1.39	1.05

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74HCT5555N	568-2887-5-ND	Programmable Delay Timer with Oscillator	16-Dip	1.73	1.39	1.05
74HCT6323AD	568-2895-5-ND	Tri-State Programmable Ripple Counter with Oscillator	8-SOIC	1.11	.93	.75
74HCT7030D	568-2900-5-ND	Tri-State 9-Bit x 64-Word FIFO Register	28-SOIC	7.83	6.27	5.29
74HCT7030N	568-2901-5-ND	Tri-State 9-Bit x 64-Word FIFO Register	28-Dip	7.83	6.27	5.29
74HCT7273D	568-2902-5-ND	Octal D-Type F/F with Reset, Positive-Edge-Trigger, OD Output	20-SOIC	.92	.77	.62
74HCT7273N	568-2903-5-ND	Octal D-Type F/F with Reset, Positive-Edge-Trigger, OD Output	20-Dip	.92	.77	.62
74HCT7403N	568-2904-5-ND	Tri-State 4-Bit x 64-Word FIFO Register	16-Dip	2.93	2.34	1.82
74HCT7540D	568-2906-5-ND	Tri-State Octal Schmitt Trigger Buffer/Line Driver, Inverting	20-SOIC	1.61	1.29	.97
74HCT7540N	568-2907-5-ND	Tri-State Octal Schmitt Trigger Buffer/Line Driver, Inverting	20-Dip	1.61	1.29	.97
74HCT7541D	568-1567-5-ND	Tri-State Octal Schmitt Trigger Buffer/Line Driver	20-SOIC	1.61	1.29	.97
74HCT7541N	568-2908-5-ND	Tri-State Octal Schmitt Trigger Buffer/Line Driver	20-Dip	1.61	1.29	.97
74HCT7731D	568-2909-5-ND	Quad 64-Bit Static Shift Register	16-SOIC	3.87	3.10	2.41
74HCT7731N	568-2910-5-ND	Quad 64-Bit Static Shift Register	16-Dip	3.87	3.10	2.41
74HCT9046AD	568-3978-5-ND	PLL with Band Gap Controlled VCO	16-SOIC	2.23	1.79	1.34
74HCT9046AD-T	568-1570-1-ND	PLL with Band Gap Controlled VCO	16-SOIC	2.23	1.79	1.34
74HCT9046AD-T	568-1570-2-ND	PLL with Band Gap Controlled VCO	16-SOIC	2853.12/2,500		
74HCT9046AN	568-2913-5-ND	PLL with Band Gap Controlled VCO	16-Dip	2.23	1.79	1.34
74HCT9046APW	568-2914-5-ND	PLL with Band Gap Controlled VCO	16-TSSOP	2.23	1.79	1.34
74HCT9114D	568-2915-5-ND	Nine Wide Schmitt Trigger Buffer	20-SOIC	1.33	1.07	.80
74HCT9114N	568-2916-5-ND	Nine Wide Schmitt Trigger Buffer	20-Dip	1.33	1.07	.80
74HCT9115D	568-2917-5-ND	Nine Wide Schmitt Trigger Buffer	20-SOIC	1.14	.95	.76
74HCT9115N	568-2918-5-ND	Nine Wide Schmitt Trigger Buffer	20-Dip	1.34	1.12	.90
74HCT40105D	568-2839-5-ND	4-Bit x 16-Word FIFO Register	16-SOIC	1.33	1.11	.89
74HCT40105DB	568-2840-5-ND	4-Bit x 16-Word FIFO Register	16-SSOP	1.33	1.11	.89
74HCT40105N	568-2841-5-ND	4-Bit x 16-Word FIFO Register	16-Dip	1.33	1.11	.89
74HCT2G125DP-G	568-4285-1-ND	Tri-St. Dual Buffer/Line Driver	8-TSSOP	.43	.34	.26
74HCT2G125DP-G	568-4285-2-ND	Tri-St. Dual Buffer/Line Driver	8-TSSOP	344.25/3,000		

HCU Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
74HCU04D-T	568-1571-1-ND	Hex Inverter	14-SOIC	.42	.34	.24
74HCU04D-T	568-1571-2-ND	Hex Inverter	14-SOIC	238.50/2,500		

LV Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
74LV00N	568-2920-5-ND	Quad 2-Input NAND Gate	14-Dip	.51	.38	.29
74LV04N	568-2921-5-ND	Hex Inverter	14-Dip	.51	.38	.29
74LV08N	568-2922-5-ND	Quad 2-Input AND Gate	14-Dip	.51	.38	.29
74LV14D	568-2928-5-ND	Hex Inverting Schmitt-Trigger	14-SOIC	.44	.36	.25
74LV14N	568-2929-5-ND	Hex Inverting Schmitt-Trigger	14-Dip	.59	.45	.34
74LV27D	568-2952-5-ND	Triple 3-Input NOR Gate	14-SOIC	.69	.53	.40
74LV32N	568-2953-5-ND	Quad 2-Input OR Gate	14-Dip	.51	.38	.29
74LV74N	568-2988-5-ND	Dual D-Type F/F with Set and Reset, Positive-Edge-Triggered	14-Dip	.72	.54	.41
74LV86N	568-2989-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.72	.54	.41
74LV123N	568-2923-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-Dip	.84	.64	.48
74LV125N	568-2924-5-ND	Tri-State Quad Buffer/Line Driver	14-Dip	.99	.75	.56
74LV132N	568-2925-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.76	.57	.43
74LV138N	568-2926-5-ND	3-to-8 Line Decoder/Demux	16-Dip	.80	.60	.45
74LV139N	568-2927-5-ND	Dual 2-to-4 Line Decoder/Demux	16-Dip	.80	.60	.45
74LV153D	568-2930-5-ND	Dual 4-Input Multiplexer	16-SOIC	.76	.57	.43
74LV153DB	568-2931-5-ND	Dual 4-Input Multiplexer	16-SSOP	.76	.57	.43
74LV153N	568-2932-5-ND	Dual 4-Input Multiplexer	16-Dip	.76	.57	.43
74LV153PW	568-2933-5-ND	Dual 4-Input Multiplexer	16-TSSOP	.76	.57	.43
74LV164N	568-2934-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.79	.66	.53
74LV165N	568-2935-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.79	.66	.53
74LV174N	568-2936-5-ND	Hex D-Type Flip-Flop with Reset, Positive-Edge-Triggered	16-Dip	.97	.73	.55
74LV241D	568-2937-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.82	.69	.55
74LV241DB	568-2938-5-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.82	.69	.55
74LV241N	568-2939-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.82	.69	.55
74LV241PW	568-2940-5-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.82	.69	.55
74LV244N	568-2941-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.93	.70	.53
74LV245N	568-2942-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.93	.70	.53
74LV251D	568-2943-5-ND	Tri-State 8-Input Multiplexer	16-SOIC	.89	.75	.60
74LV251DB	568-2944-5-ND	Tri-State 8-Input Multiplexer	16-SSOP	.93	.78	.62
74LV251N	568-2945-5-ND	Tri-State 8-Input Multiplexer	16-Dip	.89	.75	.60
74LV251PW	568-2946-5-ND	Tri-State 8-Input Multiplexer	16-TSSOP	.97	.81	.65
74LV259D	568-2947-5-ND	8-Bit Addressable Latch	16-SOIC	.86	.72	.58
74LV259DB	568-2948-5-ND	8-Bit Addressable Latch	16-SSOP	.86	.72	.58
74LV259N	568-2949-5-ND	8-Bit Addressable Latch	16-Dip	.86	.72	.58
74LV259PW	568-2950-5-ND	8-Bit Addressable Latch	16-TSSOP	.86	.72	.58
74LV273N	568-2951-5-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-Dip	.93	.70	.53
74LV365D	568-2954-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.76	.64	.51
74LV365DB	568-2955-5-ND	Tri-State Hex Buffer/Line Driver	16-SSOP	.93	.78	.62
74LV365N	568-2956-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.93	.78	.62
74LV365PW	568-2957-5-ND	Tri-State Hex Buffer/Line Driver	16-TSSOP	.97	.81	.65
74LV367N	568-2958-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.79	.66	.53
74LV373N	568-2959-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.93	.70	.53
74LV374N	568-2960-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.93	.70	.53
74LV377D	568-2961-5-ND	Octal D-Type F/F with Data Enable, Positive-Edge-Triggered	20-SOIC	.86	.72	.58
74LV377DB	568-2962-5-ND	Octal D-Type F/F with Data Enable, Positive-Edge-Triggered	20-SSOP	.97	.81	.65
74LV377N	568-2963-5-ND	Octal D-Type F/F with Data Enable, Positive-Edge-Triggered	20-Dip	.89	.75	.60
74LV377PW	568-2964-5-ND	Octal D-Type F/F with Data Enable, Positive-Edge Triggered	20-TSSOP	1.00	.84	.67

(Continued)

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LV393D	568-2965-5-ND	Dual 4-Bit Binary Ripple Counter	14-SOIC	.82	.69	.55
74LV393DB	568-2966-5-ND	Dual 4-Bit Binary Ripple Counter	14-SSOP	.86	.72	.58
74LV393N	568-2967-5-ND	Dual 4-Bit Binary Ripple Counter	14-Dip	.86	.72	.58
74LV393PW	568-2968-5-ND	Dual 4-Bit Binary Ripple Counter	14-TSSOP	.89	.75	.60
74LV541N	568-2984-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	1.08	.90	.72
74LV573N	568-2985-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.85	.72	.57
74LV574N	568-2986-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.85	.72	.57
74LV595N	568-2987-5-ND	8-Bit Serial-In/Serial or Parallel-Out Shift Register	16-Dip	.98	.82	.66
74LV4020D	568-2969-5-ND	14-Stage Binary Ripple Counter	16-SOIC	1.11	.93	.75
74LV4020DB	568-2970-5-ND	14-Stage Binary Ripple Counter	16-SSOP	1.11	.93	.75
74LV4020N	568-2971-5-ND	14-Stage Binary Ripple Counter	16-Dip	1.11	.93	.75
74LV4020PW	568-2972-5-ND	14-Stage Binary Ripple Counter	16-TSSOP	1.11	.93	.75
74LV4060D	568-1572-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-SOIC	1.08	.90	.72
74LV4060DB	568-2973-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-SSOP	1.15	.97	.77
74LV4060N	568-2974-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-Dip	1.11	.93	.75
74LV4060PW	568-2975-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-TSSOP	1.19	.99	.80
74LV4094D	568-2976-5-ND	8-Stage Shift and Store Bus Register	16-SOIC	1.08	.90	.72
74LV4094DB	568-2977-5-ND	8-Stage Shift and Store Bus Register	16-SSOP	1.15	.97	.77
74LV4094N	568-2978-5-ND	8-Stage Shift and Store Bus Register	16-Dip	1.11	.93	.75
74LV4094PW	568-2979-5-ND	8-Stage Shift and Store Bus Register	16-TSSOP	1.19	.99	.80
74LV4799D	568-2980-5-ND	Timer for NiCd/NiMH Charger	16-SOIC	2.42	1.94	1.45
74LV4799DB	568-2981-5-ND	Timer for NiCd/NiMH Charger	16-SSOP	2.42	1.94	1.45
74LV4799N	568-2982-5-ND	Timer for NiCd/NiMH Charger	16-Dip	2.42	1.94	1.45
74LV4799PW	568-2983-5-ND	Timer for NiCd/NiMH Charger	16-TSSOP	2.11	1.69	1.27

LVC Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVC1G04GV	568-2294-1-ND	Single Inverter	SOT-753	.29	.22	.16
74LVC1G04GV	568-2294-2-ND	Single Inverter	SOT-753		169.20/3,000	
74LVC1G04GW-G	568-1579-1-ND	Single Inverter	UMT-5	.29	.22	.16
74LVC1G04GW-G	568-1579-2-ND	Single Inverter	UMT-5		169.20/3,000	
74LVC1G07GW-G	568-2295-1-ND	Buffer with OD Output	UMT-5	.29	.22	.16
74LVC1G07GW-G	568-2295-2-ND	Buffer with OD Output	UMT-5		169.20/3,000	
74LVC1G08GW-G	568-1580-1-ND	Single 2-Input AND Gate	UMT-5	.29	.22	.16
74LVC1G08GW-G	568-1580-2-ND	Single 2-Input AND Gate	UMT-5		169.20/3,000	
74LVC1G11GM-G	568-3004-1-ND	Single 3-Input AND Gate	6-XSON	.46	.37	.26
74LVC1G11GM-G	568-3004-2-ND	Single 3-Input AND Gate	6-XSON		560.00/5,000	
74LVC1G14GW-G	568-2267-1-ND	Single Schmitt-Trigger Inverter	SOT-353	.29	.22	.16
74LVC1G14GW-G	568-2267-2-ND	Single Schmitt-Trigger Inverter	SOT-353		169.20/3,000	
74LVC1G32GV	568-2297-1-ND	Single 2-Input OR Gate	SOT-753	.29	.22	.16
74LVC1G32GV	568-2297-2-ND	Single 2-Input OR Gate	SOT-753		169.20/3,000	
74LVC1G32GW-G	568-2298-1-ND	Single 2-Input OR Gate	SOT-353	.29	.22	.16
74LVC1G32GW-G	568-2298-2-ND	Single 2-Input OR Gate	SOT-353		169.20/3,000	
74LVC1G53DC-G	568-3009-1-ND	2-Ch. Analog Mux/Demultiplexer	8-VSSOP	.46	.37	.26
74LVC1G53DC-G	568-3009-2-ND	2-Ch. Analog Mux/Demultiplexer	8-VSSOP		357.00/3,000	
74LVC1G74GT-G	568-3255-1-ND	Single D-Type Flip-Flop Positive Edge Triggered	8-XSON	.56	.42	.32
74LVC1G74GT-G	568-3255-2-ND	Single D-Type Flip-Flop Positive Edge Triggered	8-XSON		892.50/5,000	
74LVC1G125GV	568-2296-1-ND	Tri-State Bus Buffer/Line Driver	SOT-753	.29	.22	.16
74LVC1G125GV	568-2296-2-ND	Tri-State Bus Buffer/Line Driver	SOT-753		169.20/3,000	
74LVC1G125GW-G	568-3005-1-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP	.29	.22	.16
74LVC1G125GW-G	568-3005-2-ND	Tri-State Bus Buffer/Line Driver	5-TSSOP		169.20/3,000	
74LVC1G157GM-G	568-3006-1-ND	Single 2-Input Multiplexer	6-XSON	.46	.37	.26
74LVC1G157GM-G	568-3006-2-ND	Single 2-Input Multiplexer	6-XSON		560.00/5,000	
74LVC1G157GV-G	568-3007-1-ND	Single 2-Input Multiplexer	SC74-6	.29	.22	.16
74LVC1G157GV-G	568-3007-2-ND	Single 2-Input Multiplexer	SC74-6		169.20/3,000	
74LVC1G157GW-G	568-3008-1-ND	Single 2-Input Multiplexer	SC88-6	.29	.22	.16
74LVC1G157GW-G	568-3008-2-ND	Single 2-Input Multiplexer	SC88-6		169.20/3,000	
74LVC1GX04GV-G	568-3010-1-ND	X-tal Driver	6-TSSOP	.93	.70	.53
74LVC1GX04GV-G	568-3010-2-ND	X-tal Driver	6-TSSOP		903.24/3,000	
74LVC1GX04GW-G	568-3011-1-ND	X-tal Driver	6-TSSOP	.93	.70	.53
74LVC1GX04GW-G	568-3011-2-ND	X-tal Driver	6-TSSOP		903.24/3,000	
74LVC2G00GT-G	568-3256-1-ND	Dual 2-Input NAND Gate	8-XSON	.96	.72	.54
74LVC2G00GT-G	568-3256-2-ND	Dual 2-Input NAND Gate	8-XSON		1530.00/5,000	
74LVC2G08DC-G	568-3257-1-ND	Dual 2-Input AND Gate	8-VSSOP	.50	.40	.30
74LVC2G08DC-G	568-3257-2-ND	Dual 2-Input AND Gate	8-VSSOP		405.00/3,000	
74LVC2G86DC-G	568-3016-1-ND	Dual 2-Input Exclusive OR Gate	8-VSSOP	.55	.44	.33
74LVC2G86DC-G	568-3016-2-ND	Dual 2-Input Exclusive OR Gate	8-VSSOP		445.50/3,000	
74LVC00AD-T	568-2270-1-ND	Quad 2-Input NAND Gate	14-SOIC	.38	.30	.22
74LVC00AD-T	568-2270-2-ND	Quad 2-Input NAND Gate	14-SOIC		216.00/2,500	
74LVC00APW-T	568-2282-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.42	.34	.24
74LVC00APW-T	568-2282-2-ND	Quad 2-Input NAND Gate	14-TSSOP		238.50/2,500	
74LVC02ABQ-G	568-2990-1-ND	Quad 2-Input NOR Gate	14-DHVQFN	.81	.61	.46
74LVC02ABQ-G	568-2990-2-ND	Quad 2-Input NOR Gate	14-DHVQFN		788.19/3,000	
74LVC02APW-T	568-2271-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.42	.34	.24
74LVC02APW-T	568-2271-2-ND	Quad 2-Input NOR Gate	14-TSSOP		238.50/2,500	
74LVC04ABQ-G	568-2991-1-ND	Hex Inverter	14-DHVQFN	.81	.61	.46
74LVC04ABQ-G	568-2991-2-ND	Hex Inverter	14-DHVQFN		788.19/3,000	
74LVC04AD	568-1573-5-ND	Hex Inverter	14-SOIC	.38	.30	.22
74LVC04AD-T	568-2283-1-ND	Hex Inverter	14-SOIC	.36	.29	.20
74LVC04AD-T	568-2283-2-ND	Hex Inverter	14-SOIC		202.50/2,500	
74LVC04APW-T	568-1574-1-ND	Hex Inverter	14-TSSOP	.42	.34	.24
74LVC04APW-T	568-1574-2-ND	Hex Inverter	14-TSSOP		238.50/2,500	
74LVC06AD-T	568-2284-1-ND	Hex Inverter with OD Output	14-SOIC	.43	.34	.24
74LVC06AD-T	568-2284-2-ND	Hex Inverter with OD Output	14-SOIC		243.00/2,500	
74LVC07ABQ-G	568-2992-1-ND	Hex Buffer with OD Output	14-DHVQFN	.81	.61	.46
74LVC07ABQ-G	568-2992-2-ND	Hex Buffer with OD Output	14-DHVQFN		788.19/3,000	
74LVC07AD-T	568-2285-1-ND	Hex Buffer with OD Output	14-SOIC	.43	.34	.24
74LVC07AD-T	568-2285-2-ND	Hex Buffer with OD Output	14-SOIC		243.00/2,500	
74LVC07APW-T	568-2286-1-ND	Hex Buffer with OD Output	14-TSSOP	.40	.32	.22
74LVC07APW-T	568-2286-2-ND	Hex Buffer with OD Output	14-TSSOP		225.00/2,500	
74LVC08ABQ-G	568-2993-1-ND	Quad 2-Input AND Gate	14-DHVQFN	.81	.61	.46
74LVC08ABQ-G	568-2993-2-ND	Quad 2-Input AND Gate	14-DHVQFN		788.19/3,000	
74LVC08AD-T	568-2273-1-ND	Quad 2-Input AND Gate	14-SOIC	.38	.30	.22
74LVC08AD-T	568-2273-2-ND	Quad 2-Input AND Gate	14-SOIC		216.00/2,500	
74LVC08APW	568-1575-5-ND	Quad 2-Input AND Gate	14-TSSOP	.42	.34	.24
74LVC10ABQ-G	568-2994-1-ND	Triple 3-Input NAND Gate	14-DHVQFN	.94	.71	.54
74LVC10ABQ-G	568-2994-2-ND	Triple 3-Input NAND Gate	14-DHVQFN		919.62/3,000	
74LVC14ABQ-G	568-3001-1-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-DHVQFN	.81	.61	.46
74LVC14ABQ-G	568-3001-2-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-DHVQFN		788.19/3,000	
74LVC14AD-T	568-1578-1-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-SOIC	.38	.30	.22
74LVC14AD-T	568-1578-2-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-SOIC		216.00/2,500	
74LVC14ADB-T	568-2290-1-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-SSOP	.38	.30	.22
74LVC14ADB-T	568-2290-2-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-SSOP		182.40/2,000	
74LVC14APW-T	568-2269-1-ND	Hex Inverting Schmitt Trigger	14-TSSOP	.42	.34	.24
74LVC14APW-T	568-2269-2-ND	Hex Inverting Schmitt Trigger	14-TSSOP		238.50/2,500	
74LVC27D	568-3013-5-ND	Triple 3-Input NOR Gate	14-SOIC	.51	.38	.29
74LVC27DB	568-3014-5-ND	Triple 3-Input NOR Gate	14-SSOP	.51	.38	.29
74LVC27PW	568-3015-5-ND	Triple 3-Input NOR Gate	14-TSSOP	.51	.38	.29
74LVC32ABQ-G	568-3017-1-ND	Quad 2-Input OR Gate	14-DHVQFN	.81	.61	.46
74LVC32ABQ-G	568-3017-2-ND	Quad 2-Input OR Gate	14-DHVQFN		788.19/3,000	
74LVC32AD-T	568-2303-1-ND	Quad 2-Input OR Gate	14-SOIC	.38	.30	.22
74LVC32AD-T	568-2303-2-ND	Quad 2-Input OR Gate	14-SOIC		216.00/2,500	
74LVC32APW-T	568-2276-1-ND	Quad 2-Input OR Gate	14-TSSOP	.42	.34	.24
74LVC32APW-T	568-2276-2-ND	Quad 2-Input OR Gate	14-TSSOP		238.50/2,500	
74LVC74AD-T	568-2305-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	.39	.32	.22
74LVC74AD-T	568-2305-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC		255.00/2,500	
74LVC74APW	568-1588-5-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP	.36	.29	.20
74LVC74APW-T	568-2306-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP	.36	.29	.20
74LVC74APW-T	568-2306-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP		233.75/2,500	
74LVC86AD-T	568-2307-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.39	.32	.22
74LVC86AD-T	568-2307-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC		255.00/2,500	
74LVC125ABQ-G	568-2995-1-ND	Tri-State Ouad Buffer/Line Driver	14-DHVQFN	.94	.71	.54
74LVC125ABQ-G	568-2995-2-ND	Tri-State Ouad Buffer/Line Driver	14-DHVQFN		919.62/3,000	
74LVC125AD-T	568-2287-1-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	.41	.32	.23
74LVC125AD-T	568-2287-2-ND	Tri-State Quad Buffer/Line Driver	14-SOIC		229.50/2,500	
74LVC125ADB-T	568-2277-1-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-SSOP	.40	.33	.23
74LVC125ADB-T	568-2277-2-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-SSOP		223.20/2,000	
74LVC125APW	568-1576-5-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-TSSOP	.41	.34	.23
74LVC125APW-T	568-2288-1-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-TSSOP	.41	.34	.23
74LVC125APW-T	568-2288-2-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-TSSOP		267.75/2,500	
74LVC126ABQ-G	568-2996-1-ND	Tri-State Quad Buffer/Line Driver	14-DHVQFN	.94	.71	.54
74LVC126ABQ-G	568-2996-2-ND	Tri-State Quad Buffer/Line Driver	14-DHVQFN		919.62/3,000	
74LVC138AD	568-1577-5-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.47	.38	.26
74LVC138AD-T	568-2289-1-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.47	.38	.26
74LVC138AD-T	568-2289-2-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC		306.00/2,500	
74LVC139BQ-G	568-3000-1-ND	Dual 2-to-4 Line Decoder/Demux	16-DHVQFN	.94	.71	.54
74LVC139BQ-G	568-3000-2-ND	Dual 2-to-4 Line Decoder/Demux	16-DHVQFN		919.62/3,000	
74LVC157ABQ-G	568-3002-1-ND	Quad 2-Input Multiplexer	16-DHVQFN	.94	.71	.54
74LVC157ABQ-G	568-3002-2-ND	Quad 2-Input Multiplexer	16-DHVQFN		919.62/3,000	
74LVC163PW-T	568-2293-1-ND	Presettable Sync. 4-Bit Binary Counter	16-TSSOP	.66	.50	.38
74LVC163PW-T	568-2293-2-ND	Presettable Sync. 4-Bit Binary Counter	16-TSSOP		536.25/2,500	
74LVC244AD	568-1581-5-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-SOIC	.47	.38	.26
74LVC244AD-T	568-2299-1-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-SOIC	.47	.38	.26
74LVC244AD-T	568-2299-2-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-SOIC		259.20/2,000	
74LVC244ADB	568-1582-5-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-SSOP	.47	.38	.26
74LVC244APW-T	568-1583-1-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-TSSOP	.50	.41	.28
74LVC244APW-T	568-1583-2-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-TSSOP		327.25/2,500	
74LVC245ABQ-G	568-3012-1-ND	Tri-State Octal Bus Transceiver	20-DHVQFN	.91	.76	.61
74LVC245ABQ-G	568-3012-2-ND	Tri-State Octal Bus Transceiver	20-DHVQFN		1182.48/3,000	
74LVC245AD-T	568-2300-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.47	.38	.26
74LVC245AD-T	568-2300-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		259.20/2,000	
74LVC245ADB-T	568-2274-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.47	.38	.26
74LVC245ADB-T	568-2274-2-ND	Tri-State Octal Bus Transceiver	20-SSOP		129.60/1,000	
74LVC245APW	568-1584-5-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.50	.41	.28
74LVC245APW-T	568-2301-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.50	.41	.28
74LVC245APW-T	568-2301-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP		327.25/2,500	
74LVC273PW	568-2302-5-ND	Octal D-Type Flip-Flop	20-TSSOP	.51	.41	.31
74LVC273PW-T	568-2268-1-ND	Octal D-Type Flip-Flop	20-TSSOP	.51	.41	.31
74LVC273PW-T	568-2268-2-ND	Octal D-Type Flip-Flop	20-TSSOP		344.25/2,500	
74LVC373APW-T	568-2304-1-ND	Tri-State Octal D-Type Transparent Latch	20-TSSOP	.50	.41	.28
74LVC373APW-T	568-2304-2-ND	Tri-State Octal D-Type Transparent Latch	20-TSSOP		327.25/2,500	
74LVC374ABQ-G	568-3018-1-ND	Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-DHVQFN	.91	.76	.61
74LVC374ABQ-G	568-3018-2-ND	Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-DHVQFN		1182.48/3,000	
74LVC377PW-T	568-2275-1-ND	Octal D-Type Flip-Flop	20-TSSOP	.70	.53	.40
74LVC377PW-T	568-2275-2-ND	Octal D-Type Flip-Flop	20-TSSOP		568.75/2,500	
74LVC541APW	568-1587-5-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.58	.46	.35
74LVC573APW-T	568-2272-1-ND	Tri-State Octal D-Type Transparent Latch	20-TSSOP	.50	.41	.28
74LVC573APW-T	568-2272-2-ND	Tri-State Octal D-Type Transparent Latch	20-TSSOP		327.25/2,500	

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVC1284D	568-2997-5-ND	3.3V Parallel Printer Interface Transceiver/Buffer	20-SOIC	1.27	1.02	.77
74LVC1284DB	568-2998-5-ND	3.3V Parallel Printer Interface Transceiver/Buffer	20-SSOP	1.27	1.02	.77
74LVC1284PW	568-2999-5-ND	3.3V Parallel Printer Interface Transceiver/Buffer	20-TSSOP	1.27	1.02	.77
74LVC4066BQ-G	568-3019-1-ND	Quad Bilateral Switch	14-DHVQFN	1.11	.93	.75
74LVC4066BQ-G	568-3019-2-ND	Quad Bilateral Switch	14-DHVQFN	1444.95/3,000		
74LVC4066D	568-3020-5-ND	Quad Bilateral Switch	14-SOIC	.81	.61	.46
74LVC4066PW	568-3021-5-ND	Quad Bilateral Switch	14-TSSOP	.81	.61	.46
74LVC4245AD	568-1585-5-ND	Tri-State Octal Dual Supply Translating Transceiver	24-SOIC	.96	.80	.64
74LVC4245ADB	568-3022-5-ND	Tri-State Octal Dual Supply Translating Transceiver	24-SSOP	.96	.80	.64
74LVC4245APW	568-1586-5-ND	Tri-State Octal Dual Supply Translating Transceiver	24-TSSOP	.96	.72	.54
74LVC162245ADG	568-3003-5-ND	Tri-State 16-Bit Transceiver	48-TSSOP	.76	.57	.43
74LVC16245ADG-T	568-2292-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	.76	.57	.43
74LVC16245ADG-T	568-2292-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	505.40/2,000		
74LVC162244ADG-T	568-2291-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	.76	.57	.43
74LVC162244ADG-T	568-2291-2-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	505.40/2,000		

LVCH Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
74LVCH32245AEC	568-2278-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	7.80	6.24	5.27

LVCU Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
74LVCU04AD-T	568-2308-1-ND	Hex Inverter	14-SOIC	.38	.30	.22
74LVCU04AD-T	568-2308-2-ND	Hex Inverter	14-SOIC	216.00/2,500		

LVT Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
MB2244BB	568-3556-ND	Tri-State, 16-Bit Buffer/Line Driver	52-QFP	9.77	7.82	6.60
MB2245BB	568-3530-ND	Tri-State, 16-Bit Transceiver	52-QFP	9.77	7.82	6.60
74LVT00D	568-1589-5-ND	3.3V Quad 2-Input NAND Gate	14-SOIC	.89	.75	.60
74LVT00DB	568-3023-5-ND	3.3V Quad 2-Input NAND Gate	14-SSOP	.89	.75	.60
74LVT00PW	568-3024-5-ND	3.3V Quad 2-Input NAND Gate	14-TSSOP	.89	.75	.60
74LVT02D	568-3025-5-ND	3.3V Quad 2-Input NOR Gate	14-SOIC	.89	.75	.60
74LVT02DB	568-3026-5-ND	3.3V Quad 2-Input NOR Gate	14-SSOP	.89	.75	.60
74LVT02PW	568-3027-5-ND	3.3V Quad 2-Input NOR Gate	14-TSSOP	.89	.75	.60
74LVT04D-T	568-2309-1-ND	3.3V Hex Inverter	14-SOIC	.89	.75	.60
74LVT04D-T	568-2309-2-ND	3.3V Hex Inverter	14-SOIC	964.60/2,500		
74LVT04DB	568-3028-5-ND	3.3V Hex Inverter	14-SSOP	.89	.75	.60
74LVT04PW	568-3029-5-ND	3.3V Hex Inverter	14-TSSOP	.89	.75	.60
74LVT08DB	568-3030-5-ND	3.3V Quad 2-Input AND Gate	14-SSOP	.89	.75	.60
74LVT08D	568-1590-5-ND	3.3V Quad 2-Input AND Gate	14-SOIC	.89	.75	.60
74LVT08PW	568-3031-5-ND	3.3V Quad 2-Input AND Gate	14-TSSOP	.89	.75	.60
74LVT10D	568-3032-5-ND	3.3V Triple 3-Input NAND Gate	14-SOIC	.89	.75	.60
74LVT10DB	568-3033-5-ND	3.3V Triple 3-Input NAND Gate	14-SSOP	.89	.75	.60
74LVT10PW	568-3034-5-ND	3.3V Triple 3-Input NAND Gate	14-TSSOP	.89	.75	.60
74LVT14D	568-1593-5-ND	3.3V Hex Inverter Schmitt Trigger	14-SOIC	.89	.75	.60
74LVT14DB	568-3035-5-ND	3.3V Hex Inverter Schmitt Trigger	14-SSOP	.89	.75	.60
74LVT14PW	568-3036-5-ND	3.3V Hex Inverter Schmitt Trigger	14-TSSOP	.89	.75	.60
74LVT32D	568-3040-5-ND	3.3V Quad 2-Input OR Gate	14-SOIC	.93	.78	.62
74LVT32DB	568-3041-5-ND	3.3V Quad 2-Input OR Gate	14-SSOP	.93	.78	.62
74LVT32PW	568-3042-5-ND	3.3V Quad 2-Input OR Gate	14-TSSOP	.93	.78	.62
74LVT74D-T	568-2318-1-ND	3.3V Dual D-Type Flip-Flop	14-SOIC	.89	.75	.60
74LVT74D-T	568-2318-2-ND	3.3V Dual D-Type Flip-Flop	14-SOIC	964.60/2,500		
74LVT74DB	568-3049-5-ND	3.3V Dual D-Type Flip-Flop	14-SSOP	.89	.75	.60
74LVT74PW	568-3050-5-ND	3.3V Dual D-Type Flip-Flop	14-TSSOP	.89	.75	.60
74LVT125D	568-1591-5-ND	Tri-State 3.3V Quad Buffer	14-SOIC	.46	.37	.26
74LVT125D-T	568-2310-1-ND	Tri-State 3.3V Quad Buffer	14-SOIC	.46	.37	.26
74LVT125D-T	568-2310-2-ND	Tri-State 3.3V Quad Buffer	14-SOIC	297.50/2,500		
74LVT125PW	568-1592-5-ND	Tri-State 3.3V Quad Buffer	14-TSSOP	.49	.40	.27
74LVT125PW-T	568-2311-1-ND	Tri-State 3.3V Quad Buffer	14-TSSOP	.49	.40	.27
74LVT125PW-T	568-2311-2-ND	Tri-State 3.3V Quad Buffer	14-TSSOP	318.75/2,500		
74LVT244APW	568-1594-5-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-TSSOP	.54	.44	.33
74LVT244APW-T	568-2316-1-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-TSSOP	.54	.44	.33
74LVT244APW-T	568-2316-2-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-TSSOP	364.50/2,500		
74LVT245DB-T	568-2317-1-ND	Tri-State 3.3V Octal Transceiver	20-SSOP	.48	.37	.28
74LVT245DB-T	568-2317-2-ND	Tri-State 3.3V Octal Transceiver	20-SSOP	160.66/1,000		
74LVT245PW	568-1595-5-ND	Tri-State 3.3V Octal Transceiver	20-TSSOP	.48	.37	.28
74LVT534D	568-3043-5-ND	Tri-State 3.3V Octal D-Type Flip-Flop, Inverting	20-SOIC	1.86	1.49	1.12
74LVT534DB	568-3044-5-ND	Tri-State 3.3V Octal D-Type Flip-Flop, Inverting	20-SSOP	1.86	1.49	1.12
74LVT534PW	568-3045-5-ND	Tri-State 3.3V Octal D-Type Flip-Flop, Inverting	20-TSSOP	1.86	1.49	1.12
74LVT640D	568-3046-5-ND	Tri-State 3.3V Octal Transceiver, Inverting	20-SOIC	2.32	1.86	1.40
74LVT640DB	568-3047-5-ND	Tri-State 3.3V Octal Transceiver, Inverting	20-SSOP	2.32	1.86	1.40
74LVT640PW	568-3048-5-ND	Tri-State 3.3V Octal Transceiver, Inverting	20-TSSOP	2.32	1.86	1.40
74LVT2241D	568-3037-5-ND	Tri-State 3.3V Octal Buffer/Line Driver	20-SOIC	1.26	1.06	.85
74LVT2241DB	568-3038-5-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-SSOP	1.26	1.06	.85
74LVT2241PW	568-3039-5-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-TSSOP	1.26	1.06	.85
74LVT16245BDG-T	568-2315-1-ND	Tri-State 3.3V LVT 16-Bit Transceiver	48-TSSOP	.75	.63	.50
74LVT16245BDG-T	568-2315-2-ND	Tri-State 3.3V LVT 16-Bit Transceiver	48-TSSOP	665.00/2,000		
74LVT162245BDG-T	568-2312-1-ND	Tri-State 3.3V 16-Bit Transceiver	48-TSSOP	.88	.66	.50
74LVT162245BDG-T	568-2312-2-ND	Tri-State 3.3V 16-Bit Transceiver	48-TSSOP	585.20/2,000		
74LVT162245BDL-T	568-2313-1-ND	Tri-State 3.3V 16-Bit Transceiver	48-SSOP	.88	.66	.50
74LVT162245BDL-T	568-2313-2-ND	Tri-State 3.3V 16-Bit Transceiver	48-SSOP	292.60/1,000		
74LVT162374DG-T	568-2314-1-ND	Tri-State 3.3V 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	.79	.66	.53
74LVT162374DG-T	568-2314-2-ND	Tri-State 3.3V 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	698.25/2,000		

74F Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
N74F00D-T	568-2319-1-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.33	.24
N74F00D-T	568-2319-2-ND	Quad 2-Input NAND Gate	14-SOIC	236.25/2,500		
N74F04D	568-1709-5-ND	Hex Inverter	14-SOIC	.42	.33	.24
N74F04D-T	568-2320-1-ND	Hex Inverter	14-SOIC	.42	.33	.24
N74F04D-T	568-2320-2-ND	Hex Inverter	14-SOIC	236.25/2,500		
N74F06D-T	568-1710-1-ND	Hex Inverter/Buffer Driver, Open Collector	14-SOIC	1.41	1.18	.95
N74F06D-T	568-1710-2-ND	Hex Inverter/Buffer Driver, Open Collector	14-SOIC	1529.13/2,500		
N74F06N	568-1711-5-ND	Hex Inverter/Buffer Driver, Open Collector	14-Dip	1.41	1.18	.95
N74F07D	568-3980-5-ND	Hex Inverter/Buffer Driver, Open Collector	14-SOIC	1.41	1.18	.95
N74F07D-T	568-1712-1-ND	Hex Inverter/Buffer Driver, Open Collector	14-SOIC	1.41	1.18	.95
N74F07D-T	568-1712-2-ND	Hex Inverter/Buffer Driver, Open Collector	14-SOIC	1529.13/2,500		
N74F07N	568-1713-5-ND	Hex Inverter/Buffer Driver, Open Collector	14-Dip	1.41	1.18	.95
N74F08D	568-1714-5-ND	Quad 2-Input AND Gate	14-SOIC	.42	.33	.24
N74F08D-T	568-2321-1-ND	Quad 2-Input AND Gate	14-SOIC	.42	.33	.24
N74F08D-T	568-2321-2-ND	Quad 2-Input AND Gate	14-SOIC	236.25/2,500		
N74F14D	568-1718-5-ND	Hex Inverter Schmitt Trigger	14-SOIC	.51	.42	.29
N74F32D	568-1729-5-ND	Quad 2-Input OR Gate	14-SOIC	.50	.41	.28
N74F32D-T	568-2324-1-ND	Quad 2-Input OR Gate	14-SOIC	.50	.41	.28
N74F32D-T	568-2324-2-ND	Quad 2-Input OR Gate	14-SOIC	325.98/2,500		
N74F38D	568-1731-5-ND	Quad 2-Input NAND Buffer Open Collector	14-SOIC	.40	.32	.24
N74F74D	568-1733-5-ND	Dual D-Type Flip-Flop	14-SOIC	.47	.39	.27
N74F74N	568-1734-5-ND	Dual D-Type Flip-Flop	14-Dip	.42	.34	.26
N74F85N	568-1735-5-ND	4-Bit Magnitude Comparator	16-Dip	1.38	1.10	.83
N74F86D-T	568-2325-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.51	.42	.29
N74F86D-T	568-2325-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	334.90/2,500		
N74F125D	568-1715-5-ND	Tri-State Quad Buffer	14-SOIC	.47	.38	.29
N74F125D-T	568-2322-1-ND	Tri-State Quad Buffer	14-SOIC	.47	.38	.29
N74F125D-T	568-2322-2-ND	Tri-State Quad Buffer	14-SOIC	318.94/2,500		
N74F125N	568-1716-5-ND	Tri-State Quad Buffer	14-Dip	.52	.39	.30
N74F133D	568-3164-5-ND	13-Input NAND Gate	16-SOIC	1.11	.93	.75
N74F133N	568-3165-5-ND	13-Input NAND Gate	16-Dip	1.11	.93	.75
N74F139N	568-1717-5-ND	1-of-4 Decoder/Demux	16-Dip	.63	.48	.36
N74F157AD	568-1719-5-ND	Quad 2-Input Data Selector/Mux, Non-Inverting	16-SOIC	.53	.42	.32
N74F166D	568-3166-5-ND	8-Bit Bidirectional Universal Shift Register	16-SOIC	4.01	3.21	2.50
N74F166N	568-3167-5-ND	8-Bit Bidirectional Universal Shift Register	16-Dip	4.01	3.21	2.50
N74F242D	568-3171-5-ND	Tri-State Quad Transceiver	14-SOIC	.89	.67	.51
N74F242N	568-3172-5-ND	Tri-State Quad Transceiver	14-Dip	.89	.67	.51
N74F243N	568-3173-5-ND	Tri-State Quad Transceiver	14-Dip	.76	.57	.43
N74F244D	568-1720-5-ND	Tri-State Octal Buffer	20-SOIC	.51	.39	.29
N74F244D-T	568-2323-1-ND	Tri-State Octal Buffer	20-SOIC	.51	.39	.29
N74F244D-T	568-2323-2-ND	Tri-State Octal Buffer	20-SOIC	340.75/2,000		
N74F244N	568-1721-5-ND	Tri-State Octal Buffer	20-Dip	.63	.48	.36
N74F245D	568-1722-5-ND	Tri-State Octal Transceiver	20-SOIC	.51	.39	.29
N74F245N	568-1723-5-ND	Tri-State Octal Transceiver	20-Dip	.63	.48	.36
N74F259D	568-3174-5-ND	Addressable Latch	16-SOIC	2.05	1.65	1.24
N74F259N	568-1724-5-ND	Addressable Latch	16-Dip	2.05	1.65	1.24
N74F269DB	568-3175-5-ND	8-Bit Bidirectional Binary Counter	24-SSOP	3.98	3.19	2.48
N74F273AN	568-1725-5-ND	Octal D-Type Flip-Flop	20-Dip	.67	.51	.38
N74F298D	568-3176-5-ND	Quad 2-Input Multiplexer	16-SOIC	2.42	1.94	1.45
N74F298N	568-3177-5-ND	Quad 2-Input Multiplexer	16-Dip	2.42	1.94	1.45
N74F367D	568-1730-5-ND	Hex Buffer/Driver	16-SOIC	1.46	1.17	.88
N74F367N	568-3179-5-ND	Hex Buffer/Driver	16-Dip	1.46	1.17	.88
N74F656AD	568-3181-5-ND	Octal Bus/Driver	24-SOIC	5.21	4.17	3.25
N74F786D	568-3185-5-ND	4-Bit Async. Bus Arbiter	16-SOIC	4.68	3.75	2.92
N74F786N	568-3186-5-ND	4-Bit Async. Bus Arbiter	16-Dip	4.68	3.75	2.92
N74F804D	568-3187-5-ND	Hex 2-Input NAND Driver	20-SOIC	2.34	1.88	1.46
N74F804N	568-3188-5-ND	Hex 2-Input NAND Driver	20-Dip	2.34	1.88	1.46
N74F827DB	568-3189-5-ND	10-Bit Buffer/Line Driver	24-SSOP	2.37	1.90	1.43
N74F862D	568-3191-5-ND	Tri-State Bus Transceiver	24-SOIC	6.24	5.00	4.22
N74F862N	568-3192-5-ND	Tri-State Bus Transceiver	24-Dip	6.24	5.00	4.22
N74F1244D	568-3162-5-ND	Tri-State Octal Buffer	20-SOIC	2.42	1.94	1.45
N74F1244N	568-3163-5-ND	Tri-State Octal Buffer	20-Dip	2.42	1.94	1.45
N74F3037D	568-1726-5-ND	Quad 2-Input NAND 30-Ohm Driver	16-SOIC	1.45	1.16	.87
N74F3037N	568-1727-5-ND	Quad 2-Input NAND 30-Ohm Driver	16-Dip	2.23	1.79	1.34
N74F3038D	568-1728-5-ND	Quad 2-Input NAND 30-Ohm Line Driver, Open Collector	16-SOIC	1.58	1.27	.95
N74F3038N	568-3178-5-ND	Quad 2-Input NAND 30-Ohm Line Driver, Open Collector	16-Dip	2.23	1.79	1.34
N74F5074D	568-1732-5-ND	Sync. Dual D-Type Flip-Flop/Clock Driver	14-SOIC	2.32	1.86	1.39
N74F5074N	568-3180-5-ND	Sync. Dual D-Type Flip-Flop/Clock Driver	14-Dip	2.32	1.86	1.39

4000 Family

NXP Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
HEF4000BPN	568-3068-5-ND	Dual 3-Input NOR Gate	14-Dip	.58	.47	.35
HEF4000BTD	568-3069-5-ND	Dual 3-Input NOR Gate	14-SOIC	.58	.47	.35
HEF4001BPN	568-3070-5-ND	Quad 2-Input NOR Gate	14-Dip	.43	.35	.24
HEF4001BTD	568-3071-5-ND	Quad 2-Input NOR Gate	14-SOIC	.36	.29	.20
HEF4002BTD	568-3072-5-ND	Dual 4-Input NOR Gate	14-SOIC	.58	.47	.35
HEF4011BPN	568-1683-5-ND	Quad 2-Input NAND Gate	14-Dip	.46	.38	.26
HEF4011BTD	568-3075-5-ND	Quad 2-Input NAND Gate	14-SOIC	.36	.29	.20
HEF4013BPN	568-1684-5-ND	Dual D-Type Flip-Flop	14-Dip	.46	.38	.26
HEF4013BTD	568-1685-5-ND	Dual D-Type Flip-Flop	14-SOIC	.36	.29	.20
HEF4014BTD	568-3076-5-ND	8-Bit Static Shift Register	16-SOIC	.65	.49	.37
HEF4015BPN	568-3077-5-ND	Dual 4-Bit Static Shift Register	16-Dip	.50	.40	.30
HEF4015BTD	568-3078-5-ND	Dual 4-Bit Static Shift Register	16-SOIC	.50	.40	.30
HEF4016BPN	568-3079-5-ND	Quad Bilateral Switch	14-Dip	.54	.41	.31
HEF4017BPN	568-3080-5-ND	5-Stage Johnson Counter	16-Dip	.48	.36	.27
HEF4017BTD	568-3081-5-ND	5-Stage Johnson Counter	16-SOIC	.48	.36	.27
HEF4020BPN	568-3082-5-ND	14-Stage Binary Counter	16-Dip	.55	.44	.33
HEF4020BTD	568-3083-5-ND	14-Stage Binary Counter	16-SOIC	.55	.44	.33
HEF4021BPN	568-3084-5-ND	8-Bit Static Shift Register	16-Dip	.55	.44	.33
HEF4021BTD	568-3085-5-ND	8-Bit Static Shift Register	16-SOIC	.53	.42	.32
HEF4023BPN	568-3086-5-ND	Triple 3-Input NAND Gate	14-Dip	.55	.44	.33
HEF4023BTD	568-3087-5-ND	Triple 3-Input NAND Gate	14-SOIC	.40	.33	.25
HEF4025BPN	568-3091-5-ND	Triple 3-Input NOR Gate	14-Dip	.44	.36	.27
HEF4027BPN	568-3092-5-ND	Dual JK Flip-Flop	16-Dip	.44	.36	.27
HEF4027BTD	568-3093-5-ND	Dual JK Flip-Flop	16-SOIC	.42	.34	.26
HEF4028BPN	568-3094-5-ND	1-of-10 Decoder	16-Dip	.53	.40	.30

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

NXP Semiconductors — DIGITAL LOGIC *(Continued)*

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
HEF4028BTD	568-3095-5-ND	1-of-10 Decoder	16-SOIC	.42	.34	.25
HEF4030BTD	568-3096-5-ND	Quad Exclusive OR Gate	14-SOIC	.43	.34	.26
HEF4040BPN	568-3101-5-ND	12-Stage Binary Counter	16-Dip	.50	.40	.30
HEF4040BTD	568-3102-5-ND	12-Stage Binary Counter	16-SOIC	.47	.38	.29
HEF4044BTD	568-3103-5-ND	Tri-State, Quad R/S Latch with Output	16-SOIC	.47	.38	.29
HEF4046BPN	568-3104-5-ND	Phase-Locked Loop	16-Dip	.48	.36	.27
HEF4046BTD	568-3105-5-ND	Phase-Locked Loop	16-SOIC	.48	.36	.27
HEF4047BPN	568-3106-5-ND	Mono Astable Multivibrator	14-Dip	.48	.36	.27
HEF4047BTD	568-3107-5-ND	Mono Astable Multivibrator	14-SOIC	.53	.42	.32
HEF4049BPN	568-1686-5-ND	Hex Inverting Buffer	16-Dip	.50	.38	.29
HEF4049BTD	568-1687-5-ND	Hex Inverting Buffer	16-SOIC	.44	.36	.27
HEF4050BPN	568-3108-5-ND	Hex Non-Inverting Buffer	16-Dip	.44	.36	.27
HEF4050BTD	568-1688-5-ND	Hex Non-Inverting Buffer	16-SOIC	.42	.34	.26
HEF4051BPN	568-1689-5-ND	8-Channel Analog Mux/Demux	16-Dip	.47	.38	.29
HEF4051BTD	568-3979-5-ND	8-Channel Analog Mux/Demux	16-SOIC	.47	.38	.29
HEF4051BTD-T	568-1690-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.47	.38	.29
HEF4051BTD-T	568-1690-2-ND	8-Channel Analog Mux/Demux	16-SOIC	315.56/2,500		
HEF4051BTT-T	568-1875-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.60	.45	.34
HEF4051BTT-T	568-1875-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	487.50/2,500		
HEF4052BPN	568-3109-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.53	.42	.32
HEF4052BTD	568-1691-5-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.51	.42	.29
HEF4053BPN	568-1692-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.53	.42	.32
HEF4053BTD	568-1693-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.51	.42	.29
HEF4053BTD-T	568-2255-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.51	.42	.29
HEF4053BTD-T	568-2255-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	335.75/2,500		
HEF4059BTD	568-3110-5-ND	Programmable Divide-By-N Counter	24-SOIC	2.36	1.89	1.47
HEF4060BPN	568-3111-5-ND	14-Stage Ripple-Carry Binary Counter/Divider	16-Dip	.55	.44	.33
HEF4060BTD	568-3112-5-ND	14-Stage Ripple-Carry Binary Counter/Divider	16-SOIC	.53	.42	.32
HEF4066BPN	568-1694-5-ND	Quad Bilateral Switch	14-Dip	.49	.40	.28
HEF4066BTD	568-1695-5-ND	Quad Bilateral Switch	14-SOIC	.46	.38	.26
HEF4066BTD-T	568-2266-1-ND	Quad Bilateral Switch	14-SOIC	.46	.38	.26
HEF4066BTD-T	568-2266-2-ND	Quad Bilateral Switch	14-SOIC	303.45/2,500		
HEF4067BPN	568-3113-5-ND	16-Channel Analog Mux/Demux	24-Dip	1.73	1.39	1.04
HEF4067BTD	568-3114-5-ND	16-Channel Analog Mux/Demux	24-SOIC	1.73	1.39	1.04
HEF4068BTD	568-3115-5-ND	8-Input NAND Gate	14-SOIC	.51	.38	.29
HEF4069UBTD	568-3116-5-ND	Hex Inverter	14-SOIC	.38	.31	.22
HEF4069UBPN	568-1696-5-ND	Hex Inverter	14-Dip	.49	.40	.27
HEF4070BPN	568-1697-5-ND	Quad Exclusive OR Gate	14-Dip	.50	.40	.30
HEF4070BTD	568-3117-5-ND	Quad Exclusive OR Gate	14-SOIC	.46	.38	.26
HEF4071BPN	568-1698-5-ND	Quad 2-Input OR Gate	14-Dip	.47	.38	.29
HEF4071BTD	568-3118-5-ND	Quad 2-Input OR Gate	14-SOIC	.42	.33	.23
HEF4072BTD	568-1699-5-ND	Dual 4-Input OR Gate	14-SOIC	.51	.38	.29
HEF4073BPN	568-3119-5-ND	Triple 3-Input AND Gate	14-Dip	.47	.38	.29
HEF4075BPN	568-1700-5-ND	Triple 3-Input OR Gate	14-Dip	.58	.47	.35
HEF4077BPN	568-1701-5-ND	Quad Exclusive NOR Gate	14-Dip	.55	.44	.33
HEF4081BPN	568-1702-5-ND	Quad 2-Input AND Gate	14-Dip	.47	.38	.29
HEF4081BTD	568-3120-5-ND	Quad 2-Input AND Gate	14-SOIC	.46	.38	.26
HEF4082BPN	568-1703-5-ND	Dual 4-Input AND Gate	14-Dip	.55	.44	.33
HEF4093BPN	568-1704-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.43	.35	.24
HEF4093BTD-T	568-1705-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.41	.34	.23
HEF4093BTD-T	568-1705-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	267.75/2,500		
HEF4094BPN	568-3121-5-ND	8-Stage Shift-and-Store Bus Register	16-Dip	.47	.38	.29
HEF4094BTD	568-1706-5-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	.45	.36	.27
HEF4094BTD-T	568-2257-1-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	.45	.36	.27
HEF4094BTD-T	568-2257-2-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	301.39/2,500		
HEF4104BPN	568-3122-5-ND	Tri-State, Quad Low to High Voltage Translator	16-Dip	.99	.75	.56
HEF4104BTD	568-3123-5-ND	Tri-State, Quad Low to High Voltage Translator	16-SOIC	.99	.75	.56
HEF4511BPN	568-3124-5-ND	BCD to 7-Segment Latch/ Decoder/Driver	16-Dip	.58	.46	.35
HEF4511BTD	568-3125-5-ND	BCD to 7-Segment Latch/ Decoder/Driver	16-SOIC	.47	.38	.29
HEF4514BPN	568-3126-5-ND	1-of-16 Decoder/Demultiplexer	24-Dip	1.07	.90	.72
HEF4514BTD	568-3127-5-ND	1-of-16 Decoder/Demultiplexer	24-SOIC	.84	.63	.48
HEF4515BPN	568-3128-5-ND	1-of-16 Decoder/Demultiplexer	24-Dip	1.07	.90	.72
HEF4516BTD	568-3129-5-ND	Binary Up/Down Counter	16-SOIC	.64	.48	.36
HEF4520BPN	568-1707-5-ND	Dual Binary Counter	16-Dip	.50	.38	.29
HEF4520BTD	568-3130-5-ND	Dual Binary Counter	16-SOIC	.53	.42	.32
HEF4521BTD	568-3131-5-ND	24-Stage Frequency Divider	16-SOIC	.72	.54	.41
HEF4528BPN	568-3132-5-ND	Dual Mono Multivibrator	16-Dip	.74	.56	.42
HEF4528BTD	568-3133-5-ND	Dual Mono Multivibrator	16-SOIC	.50	.38	.29
HEF4538BPN	568-3134-5-ND	Dual Precison Mono. Multivibrator	16-Dip	.76	.57	.43
HEF4538BTD	568-3135-5-ND	Dual Precison Mono. Multivibrator	16-SOIC	.50	.40	.30
HEF4541BPN	568-3136-5-ND	Programmable Timer	14-Dip	.47	.38	.29
HEF4541BTD	568-3137-5-ND	Programmable Timer	14-SOIC	.47	.38	.29
HEF4543BPN	568-3138-5-ND	BCD to 7-Segment Latch/Decoder/ Driver	16-Dip	.50	.40	.30
HEF4555BTD	568-3139-5-ND	Dual 1-of-4 Decoder/Demultiplexer	16-SOIC	.48	.36	.27
HEF4794BPN	568-3140-5-ND	8-Stage Shift-and-Store Register LED Driver	16-Dip	1.37	1.15	.92
HEF4794BTD	568-3141-5-ND	8-Stage Shift-and-Store Register LED Driver	16-SOIC	1.37	1.15	.92
HEF4894BPN	568-3142-5-ND	12-Stage Shift-and-Store Register LED Driver	20-Dip	2.17	1.74	1.31
HEF4894BTD	568-1708-5-ND	12-Stage Shift-and-Store Register LED Driver	20-SOIC	2.17	1.74	1.31
HEF40098BPN	568-3073-5-ND	Tri-State, Hex Inverting Buffer	16-Dip	1.08	.90	.72
HEF40098BTD	568-3074-5-ND	Tri-State, Hex Inverting Buffer	16-SOIC	1.08	.90	.72
HEF40106BPN	568-1681-5-ND	Hex Inverting Schmitt Trigger	14-Dip	.43	.35	.24
HEF40106BTD-T	568-1682-1-ND	Hex Inverting Schmitt Trigger	14-SOIC	.43	.35	.24
HEF40106BTD-T	568-1682-2-ND	Hex Inverting Schmitt Trigger	14-SOIC	280.50/2,500		
HEF40240BTD	568-3088-5-ND	Tri-State, Octal Inverting Buffer with Output	20-SOIC	1.33	1.07	.80
HEF40244BPN	568-3089-5-ND	Tri-State, Octal Buffer with Output	20-Dip	1.33	1.07	.80
HEF40244BTD	568-3090-5-ND	Tri-State, Octal Buffer with Output	20-SOIC	1.33	1.07	.80
HEF40373BPN	568-3097-5-ND	Tri-State, Octal Transparent Latch with Output	20-Dip	1.42	1.14	.86
HEF40373BTD	568-3098-5-ND	Tri-State, Octal Transparent Latch with Output	20-SOIC	1.42	1.14	.86
HEF40374BPN	568-3099-5-ND	Tri-State, Octal D-Type, Flip-Flop with Output	20-Dip	1.42	1.14	.86
HEF40374BTD	568-3100-5-ND	Tri-State, Octal D-Type, Flip-Flop with Output	20-SOIC	1.42	1.14	.86

NXP Semiconductors — I/O EXPANDERS

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCA9554AD	568-1051-5-ND	8-Bit I^{2}C/SMBus I/O Port with Interrupt	16-SOIC	1.32	1.06	.79
PCA9554APW	568-1052-5-ND	8-Bit I^{2}C/SMBus I/O Port with Interrupt	16-TSSOP	1.32	1.06	.79
PCA9554ATS-T	568-2024-1-ND	8-Bit I^{2}C/SMBus I/O Port with Interrupt	20-SSOP	1.32	1.06	.79
PCA9554ATS-T	568-2024-2-ND	8-Bit I^{2}C/SMBus I/O Port with Interrupt	20-SSOP	1684.16/2,500		
PCA9554D	568-1053-5-ND	8-Bit I^{2}C/SMBus I/O Port with Interrupt	16-SOIC	1.32	1.06	.79
PCA9554DB	568-1054-5-ND	8-Bit I^{2}C/SMBus I/O Port with Interrupt	16-SSOP	1.32	1.06	.79
PCA9554N	568-2025-5-ND	8-Bit I^{2}C/SMBus I/O Port with Interrupt	16-Dip	1.45	1.16	.87
PCA9554PW	568-3984-5-ND	8-Bit I^{2}C/SMBus I/O Port with Interrupt	16-TSSOP	1.32	1.06	.79
PCA9554PW-T	568-1055-1-ND	8-Bit I^{2}C/SMBus I/O Port with Interrupt	16-TSSOP	1.32	1.06	.79
PCA9554PW-T	568-1055-2-ND	8-Bit I^{2}C/SMBus I/O Port with Interrupt	16-TSSOP	1684.16/2,500		
PCA9555BS-T	568-2382-1-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-HVQFN	1.55	1.25	.94
PCA9555BS-T	568-2382-2-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-HVQFN	4658.25/6,000		
PCA9555D	568-1056-5-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-SOIC	1.55	1.24	.93
PCA9555DB-T	568-1057-1-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-SSOP	1.55	1.25	.94
PCA9555DB-T	568-1057-2-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-SSOP	807.43/1,000		
PCA9555N	568-2027-5-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-Dip	1.66	1.33	1.00
PCA9555PW	568-3986-5-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-TSSOP	1.55	1.25	.94
PCA9555PW-T	568-1058-1-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-TSSOP	1.55	1.25	.94
PCA9555PW-T	568-1058-2-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-TSSOP	1987.52/2,500		
PCA9556PW	568-1059-5-ND	Octal SMBus/I^{2}C Registered Interface	16-TSSOP	2.05	1.65	1.24
PCA9557D	568-1060-5-ND	8-Bit I^{2}C/SMBus I/O Port with Reset	16-SOIC	1.32	1.06	.79
PCA9557PW-T	568-1061-1-ND	8-Bit I^{2}C/SMBus I/O Port with Reset	16-TSSOP	1.32	1.06	.79
PCA9557PW-T	568-1061-2-ND	8-Bit I^{2}C/SMBus I/O Port with Reset	16-TSSOP	1684.16/2,500		
PCF8574APN	568-1073-5-ND	Remote 8-Bit I/O Expander	16-Dip	1.58	1.26	.95
PCF8574ATD	568-3987-5-ND	Remote 8-Bit I/O Expander	16-SOIC	1.58	1.26	.95
PCF8574ATD-T	568-1074-1-ND	Remote 8-Bit I/O Expander	16-SOIC	1.58	1.26	.95
PCF8574ATD-T	568-1074-2-ND	Remote 8-Bit I/O Expander	16-SOIC	819.00/1,000		
PCF8574ATDK-T	568-2030-1-ND	Remote 8-Bit I/O Expander	20-SSOP	1.58	1.26	.95
PCF8574ATDK-T	568-2030-2-ND	Remote 8-Bit I/O Expander	20-SSOP	2016.00/2,500		
PCF8574PN	568-1075-5-ND	Remote 8-Bit I/O Expander	16-Dip	1.58	1.26	.95
PCF8574TD	568-1076-5-ND	Remote 8-Bit I/O Expander	16-SOIC	1.58	1.26	.95
PCF8574TD-T	568-1077-1-ND	Remote 8-Bit I/O Expander	20-SSOP	1.58	1.26	.95
PCF8574TD-T	568-1077-2-ND	Remote 8-Bit I/O Expander	20-SSOP	819.00/1,000		
PCF8574TDK	568-3988-5-ND	Remote 8-Bit I/O Expander	20-SSOP	1.58	1.26	.95
PCF8574TDK-T	568-1078-1-ND	Remote 8-Bit I/O Expander	20-SSOP	1.58	1.26	.95
PCF8574TDK-T	568-1078-2-ND	Remote 8-Bit I/O Expander	20-SSOP	2016.00/2,500		
PCF8575TSDB	568-3989-5-ND	Remote 16-Bit I/O Expander	24-SSOP	1.95	1.56	1.17
PCF8575TSDB-T	568-1079-1-ND	Remote 16-Bit I/O Expander	24-SSOP	1.95	1.56	1.17
PCF8575TSDB-T	568-1079-2-ND	Remote 16-Bit I/O Expander	24-SSOP	1014.00/1,000		

NXP Semiconductors Digi-Reel® — LOGIC TRANSLATION

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
GTL2000DG	568-4223-5-ND	22-Bit Bi-Directional Low Voltage Translator	48-TSSOP	1.23	1.03	.82
GTL2002D	568-4224-5-ND	2-Bit Bi-Directional Low Voltage Translator	8-SOIC	.80	.60	.45
GTL2002D/G-T	568-1871-1-ND	2-Bit Bi-Directional Low Voltage Translator	8-SOIC	.88	.66	.50
GTL2002DC-G	568-1869-1-ND	2-Bit Bi-Directional Low Voltage Translator	8-VSSOP	.80	.60	.45
GTL2002DC-G	568-1869-2-ND	2-Bit Bi-Directional Low Voltage Translator	8-VSSOP	780.00/3,000		
GTL2002DP-T	568-4231-1-ND	2-Bit Bi-Directional Low Voltage Translator	8-TSSOP	.80	.60	.45
GTL2002DP-T	568-4231-2-ND	2-Bit Bi-Directional Low Voltage Translator	8-TSSOP	650.00/2,500		
GTL2002DP/G-T	568-1870-1-ND	2-Bit Bi-Directional Low Voltage Translator	8-TSSOP	.88	.66	.50
GTL2002DP/G-T	568-1870-2-ND	2-Bit Bi-Directional Low Voltage Translator	8-TSSOP	715.00/2,500		
GTL2002GM-G	568-4225-1-ND	2-Bit Bi-Directional Low Voltage Translator	8-XQFN	.80	.60	.45
GTL2002GM-G	568-4225-2-ND	2-Bit Bi-Directional Low Voltage Translator	8-XQFN	1040.00/4,000		
GTL2003BQ, 115	568-4293-1-ND	8-Bit Bi-Directional Low Voltage Translator ***NEW!***	20-DHVQFN	.90	.75	.60
GTL2003BQ, 115	568-4293-2-ND	8-Bit Bi-Directional Low Voltage Translator ***NEW!***	20-DHVQFN	1170.00/3,000		
GTL2003PW	568-4232-5-ND	8-Bit Bi-Directional Low Voltage Translator	20-TSSOP	.92	.77	.62
GTL2005PW-T	568-1000-1-ND	Quad Translating Transceiver	14-TSSOP	1.58	1.27	.95
GTL2005PW-T	568-1000-2-ND	Quad Translating Transceiver	14-TSSOP	2021.12/2,500		
GTL2005PW/G-T	568-1872-1-ND	Quad GTL/GTL+ to LVTTL/TTL Bi-Directional Translator	14-TSSOP	1.75	1.40	1.05
GTL2005PW/G-T	568-1872-2-ND	Quad GTL/GTL+ to LVTTL/TTL Bi-Directional Translator	14-TSSOP	2240.00/2,500		

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NXP Semiconductors Digi-Reel® LOGIC TRANSLATION *(Continued)*
RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
GTL2006PW-T	568-1873-1-ND	13-Bit GTL–/GTL/GTL+ to LVTTL Translator	28-TSSOP	1.25	1.00	.75
GTL2006PW-T	568-1873-2-ND	13-Bit GTL–/GTL/GTL+ to LVTTL Translator	28-TSSOP	1600.00/2,500		
GTL2007PW-T	568-1874-1-ND	13-Bit GTL to LVTTL Translator with Power Good	28-TSSOP	1.25	1.00	.75
GTL2007PW-T	568-1874-2-ND	13-Bit GTL to LVTTL Translator with Power Good	28-TSSOP	1600.00/2,500		
GTL2008PW	568-3631-5-ND	12-Bit GTL to LVTTL Translator with Power Good	28-TSSOP	1.25	1.00	.75
GTL2009PW	568-3064-5-ND	3-Bit GTL Front-Side Bus Frequency Comparator	16-TSSOP	.84	.64	.48
GTL2010BS-T	568-3632-1-ND	10-Bit Bi-Directional Low Voltage Translator	24-HVQFN	.96	.80	.64
GTL2010BS-T	568-3632-2-ND	10-Bit Bi-Directional Low Voltage Translator	24-HVQFN	2448.00/6,000		
GTL2012DP-T	568-4233-1-ND	2-Bit GTL to LVTTL Transceiver	8-TSSOP	.95	.79	.64
GTL2012DP-T	568-4233-2-ND	2-Bit GTL to LVTTL Transceiver	8-TSSOP	1026.35/2,500		
GTL2014PW	568-3066-5-ND	4-Bit LVTTL to GTL Transceiver	14-TSSOP	1.42	1.19	.95
GTL2018PW	568-4234-5-ND	8-Bit LVTTL to GTL Transceiver	24-TSSOP	1.84	1.48	1.11
GTL2034PW	568-3067-5-ND	4-Bit GTL to GTL Buffer	14-TSSOP	1.42	1.19	.95

NXP Semiconductors MEMORY
RoHS Compliant

EEPROM

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA24S08D	568-3349-5-ND	1024x8-Bit CMOS EEPROM	8-SOIC	.95	.79	.64
PCA24S08DP-T	568-3350-1-ND	1024x8-Bit CMOS EEPROM	8-TSSOP	.95	.79	.64
PCA24S08DP-T	568-3350-2-ND	1024x8-Bit CMOS EEPROM	8-TSSOP	1026.35/2,500		
PCF8582C2D	568-1083-5-ND	256x8-Bit CMOS EEPROM	8-SOIC	1.05	.88	.70

SRAM

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCF8570PN	568-1071-5-ND	256x8-Bit Low Voltage SRAM	8-Dip	2.21	1.77	1.33
PCF8570TD-T	568-1072-1-ND	256x8-Bit Low Voltage SRAM	8-SOIC	2.21	1.77	1.33
PCF8570TD-T	568-1072-2-ND	256x8-Bit Low Voltage SRAM	8-SOIC	1149.46/1,000		

NXP Semiconductors MEMORY INTERFACE
RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SSTU32864EC/G	568-2052-ND	1.8V Config. Registered Buffer	96-LFBGA	3.38	2.70	2.10
SSTU32865ET/G	568-2053-ND	1.8V, 28-Bit, 1:2 Registered Buffer	160-TFBGA	6.11	4.89	4.13
SSTU32866EC/G-S	568-2054-ND	1.8V, 25-Bit, 1:1 or 14-Bit, 1:2 Config. Registered Buffer	96-LFBGA	3.38	2.70	2.10
SSTUA32864EC/G-T	568-3538-1-ND	1.8V, 25-Bit, 1:1 or 14-Bit, 1:2 Config. Registered Buffer	96-LFBGA	3.60	2.88	2.24
SSTUA32864EC/G-T	568-3538-2-ND	1.8V, 25-Bit, 1:1 or 14-Bit, 1:2 Config. Registered Buffer	96-LFBGA	7056.00/3,500		
SSTUA32866EC/G-T	568-3539-1-ND	1.8V, 25-Bit, 1:1 or 14-Bit, 1:2 Config. Registered Buffer	96-LFBGA	3.60	2.88	2.24
SSTUA32866EC/G-T	568-3539-2-ND	1.8V, 25-Bit, 1:1 or 14-Bit, 1:2 Config. Registered Buffer	96-LFBGA	7056.00/3,500		
SSTUA32S865ET/G-T	568-3540-1-ND	1.8V, 28-Bit, 1:2 Registered Buffer	160-TFBGA	6.20	4.96	4.19
SSTUA32S865ET/G-T	568-3540-2-ND	1.8V, 28-Bit, 1:2 Registered Buffer	160-TFBGA	11532.00/3,000		
SSTUB32864EC/G-T	568-3541-1-ND	1.8V, 25-Bit, 1:1 or 14-Bit, 1:2 Config. Registered Buffer	96-LFBGA	3.83	3.06	2.38
SSTUB32864EC/G-T	568-3541-2-ND	1.8V, 25-Bit, 1:1 or 14-Bit, 1:2 Config. Registered Buffer	96-LFBGA	7497.00/3,500		
SSTUH32865ET/G-S	568-3578-ND	1.8V, 28-Bit, 1:2 Registered Buffer	160-TFBGA	6.11	4.89	4.13
SSTVF16859BS-T	568-2055-1-ND	13-Bit, 1:2 SSTL_2 Registered Buffer for DDR	56-HVQFN	1.45	1.16	.87
SSTVF16859BS-T	568-2055-2-ND	13-Bit, 1:2 SSTL_2 Registered Buffer for DDR	56-HVQFN	754.00/1,000		
SSTVN16859BS-T	568-2056-1-ND	13-Bit, 1:2 SSTL_2 Registered Buffer for DDR	56-HVQFN	1.45	1.16	.87
SSTVN16859BS-T	568-2056-2-ND	13-Bit, 1:2 SSTL_2 Registered Buffer for DDR	56-HVQFN	1508.00/2,000		

NXP Semiconductors POWER CONTROL/MANAGEMENT
RoHS Compliant

Display

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA9532D	568-1039-5-ND	16-Bit I^{2}C LED Dimmer	24-SOIC	1.66	1.33	1.00
PCA9532PW	568-1040-5-ND	16-Bit I^{2}C LED Dimmer	24-TSSOP	1.66	1.33	1.00
PCF2100CTD	568-1064-5-ND	40-Segment LCD Driver	28-SOIC	1.45	1.16	.87
PCF2111CT/1,118	568-1065-1-ND	64-Segment LCD Driver	40-VSOP	1.75	1.40	1.05
PCF2111CT/1,118	568-1065-2-ND	64-Segment LCD Driver	40-VSOP	472.50/500		
PCF2112CPN	568-3557-5-ND	32-Segment LCD Driver	40-Dip	1.97	1.58	1.19
PCF2112CTD-T	568-1066-1-ND	32-Segment LCD Driver	40-VSOP	1.66	1.33	1.00
PCF2112CTD-T	568-1066-2-ND	32-Segment LCD Driver	40-VSOP	447.66/500		
PCF8562TT/2-T	568-2029-1-ND	Universal LCD Driver for Low Multiplex Rates	48-TSSOP	1.29	1.04	.78
PCF8562TT/2-T	568-2029-2-ND	Universal LCD Driver for Low Multiplex Rates	48-TSSOP	1341.08/2,000		
PCF8566PN	568-1069-5-ND	Universal LCD Driver for Low Multiplex Rates	40-Dip	2.24	1.79	1.35
PCF8566TD-T	568-1070-1-ND	Universal LCD Driver for Low Multiplex Rates	40-VSOP	2.11	1.69	1.27
PCF8566TD-T	568-1070-2-ND	Universal LCD Driver for Low Multiplex Rates	40-VSOP	568.42/500		
PCF8576CTD-T	568-1080-1-ND	Universal LCD Driver for Multiplex Rates	56-VSOP	2.24	1.79	1.35
PCF8576CTD-T	568-1080-2-ND	Universal LCD Driver for Multiplex Rates	56-VSOP	603.92/500		
PCF8576DH/2-T	568-2031-1-ND	Universal LCD Driver for Low Multiplex Rates	64-TQFP	1.89	1.52	1.14
PCF8576DH/2-T	568-2031-2-ND	Universal LCD Driver for Low Multiplex Rates	64-TQFP	1477.91/1,500		
PCF8576DT/2-T	568-3558-1-ND	Universal LCD Driver for Low Multiplex Rates	56-TSSOP	1.71	1.37	1.03
PCF8576DT/2-T	568-3558-2-ND	Universal LCD Driver for Low Multiplex Rates	56-TSSOP	1778.92/2,000		
PCF8576TD	568-3560-5-ND	Universal LCD Driver for Low Multiplex Rates	56-VSOP	2.37	1.90	1.48
PCF8577CPN	568-1081-5-ND	LCD Direct/Duplex Driver	40-Dip	2.34	1.88	1.46
PCF8577CTD-T	568-1082-1-ND	LCD Direct/Duplex Driver	40-VSOP	1.84	1.48	1.11
PCF8577CTD-T	568-1082-2-ND	LCD Direct/Duplex Driver	40-VSOP	497.34/500		
PCF8578H/1	568-4017-ND	LCD Driver for Dot Matrix	64-LQFP	2.37	1.90	1.48
PCF8578TD	568-3561-5-ND	LCD Driver for Dot Matrix	56-VSOP	2.61	2.09	1.63
PCF8579TD	568-3562-5-ND	LCD Driver for Dot Matrix	56-VSOP	2.61	2.09	1.63
SAA1064PN	568-1107-5-ND	4-Digit LED Driver w/I^{2}C Bus Interface	24-Dip	2.25	1.80	1.40
SAA1064TD	568-1108-5-ND	4-Digit LED Driver w/I^{2}C Bus Interface	24-SOIC	2.25	1.80	1.40
TDA7073AN	568-3590-5-ND	Dual BTL Power Driver	16-Dip	1.20	1.00	.80
TDA7073ATD	568-3591-5-ND	Dual BTL Power Driver	16-SOIC	1.20	1.00	.80

LED Drivers

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA9550D	568-1046-5-ND	2-Bit I^{2}C LED Driver with Blinker	8-SOIC	1.45	1.16	.87
PCA9551D	568-1047-5-ND	8-Bit I^{2}C LED Driver with Blinker	16-SOIC	1.84	1.48	1.11
PCA9551PW	568-1048-5-ND	8-Bit I^{2}C LED Driver with Blinker	16-TSSOP	1.84	1.48	1.11
PCA9552D	568-1049-5-ND	16-Bit I^{2}C LED Driver with Blinker	24-SOIC	2.37	1.90	1.43
PCA9552PW	568-1050-5-ND	16-Bit I^{2}C LED Driver with Blinker	24-TSSOP	2.37	1.90	1.43

Switch Mode Power Supply

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TEA1506AT/N1-T	568-3312-1-ND	GreenChip™II SMPS Control	14-SOIC	1.58	1.27	.95
TEA1506AT/N1-T	568-3312-2-ND	GreenChip™II SMPS Control	14-SOIC	2021.12/2,500		
TEA1506PN	568-3313-5-ND	GreenChip™II SMPS Control	8-Dip	1.11	.93	.74
TEA1506TD-T	568-2335-1-ND	GreenChip™II SMPS Control	14-SOIC	1.11	.93	.74
TEA1506TD-T	568-2335-2-ND	GreenChip™II SMPS Control	14-SOIC	1197.30/2,500		
TEA1507PN	568-2336-5-ND	GreenChip™II SMPS Control	8-Dip	1.11	.93	.74
TEA1520P/N2	568-2439-5-ND	SMPS for Low Power Systems	8-Dip	1.38	1.10	.83
TEA1520TD-T	568-2333-1-ND	STARplug™ Controller	14-SOIC	1.36	1.14	.91
TEA1520TD-T	568-2333-2-ND	STARplug™ Controller	14-SOIC	1470.95/2,500		
TEA1521P/N2	568-2440-5-ND	SMPS for Low Power Systems	8-Dip	1.43	1.14	.86
TEA1521TD-T	568-2334-1-ND	SMPS for Low Power Systems	14-SOIC	1.32	1.06	.79
TEA1521TD-T	568-2334-2-ND	SMPS for Low Power Systems	14-SOIC	1684.16/2,500		
TEA1522P/N2	568-2444-5-ND	SMPS for Low Power Systems	8-Dip	1.55	1.24	.93
TEA1522T/N2	568-2438-1-ND	SMPS for Low Power Systems	14-SOIC	1.55	1.24	.93
TEA1522T/N2	568-2438-2-ND	SMPS for Low Power Systems	14-SOIC	1984.00/2,500		
TEA1523P/N2	568-2445-5-ND	SMPS for Low Power Systems	8-Dip	1.83	1.46	1.10
TEA1532APN	568-3314-5-ND	GreenChip™II SMPS Control	8-Dip	1.11	.93	.74
TEA1532ATD-T	568-2337-1-ND	GreenChip™II SMPS Control	8-SOIC	1.11	.93	.74
TEA1532ATD-T	568-2337-2-ND	GreenChip™II SMPS Control	8-SOIC	1197.30/2,500		
TEA1532PN	568-3315-5-ND	GreenChip™II SMPS Control	8-Dip	1.11	.93	.74
TEA1532T/N1-T	568-3316-1-ND	GreenChip™II SMPS Control	8-SOIC	1.11	.93	.74
TEA1532T/N1-T	568-3316-2-ND	GreenChip™II SMPS Control	8-SOIC	1197.30/2,500		
TEA1533APN	568-3317-5-ND	GreenChip™II SMPS Control	8-Dip	1.11	.93	.74
TEA1533ATD-T	568-2338-1-ND	GreenChip™II SMPS Control	14-SOIC	1.11	.93	.74
TEA1533ATD-T	568-2338-2-ND	GreenChip™II SMPS Control	14-SOIC	1197.30/2,500		
TEA1533TD-T	568-3319-1-ND	GreenChip™II SMPS Control	14-SOIC	1.11	.93	.74
TEA1533TD-T	568-3319-2-ND	GreenChip™II SMPS Control	14-SOIC	1197.30/2,500		
TEA1552TD-T	568-2339-1-ND	GreenChip™II SMPS Control	14-SOIC	1.26	1.06	.85
TEA1552TD-T	568-2339-2-ND	GreenChip™II SMPS Control	14-SOIC	1368.58/2,500		
TEA1610PN	568-3320-5-ND	Zero-Voltage Switching Resonant Converter Controller	16-Dip	1.84	1.48	1.11
TEA1610TD-T	568-2340-1-ND	Zero-Voltage Switching Resonant Converter Controller	16-SOIC	2.70	2.16	1.68
TEA1610TD-T	568-2340-2-ND	Zero-Voltage Switching Resonant Converter Controller	16-SOIC	3780.00/2,500		
TEA1620P/N1	568-2441-5-ND	STARplug™ Controller	8-Dip	1.04	.87	.70
TEA1622P/N1	568-2442-5-ND	STARplug™ Controller	8-Dip	1.26	1.06	.85
TEA1623P/N1	568-2443-5-ND	STARplug™ Controller	8-Dip	1.92	1.54	1.16
9397 750 16172	568-4326-ND	Demo Kit STARplug™ Bronco II ***NEW!***	8-Dip	75.00	—	—

Voltage Detectors

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCF1252-0TD	568-3301-5-ND	Threshold Detector and Reset Generator	8-SOIC	1.95	1.56	1.17
PCF1252-1TD	568-3302-5-ND	Threshold Detector and Reset Generator	8-SOIC	1.95	1.56	1.17
PCF1252-2TD	568-3303-5-ND	Threshold Detector and Reset Generator	8-SOIC	1.83	1.46	1.10
PCF1252-4TD	568-3304-5-ND	Threshold Detector and Reset Generator	8-SOIC	1.90	1.52	1.14
PCF1252-7TD	568-3305-5-ND	Threshold Detector and Reset Generator	8-SOIC	1.90	1.52	1.14

NXP Semiconductors POWER SUPPLY PRODUCTS
RoHS Compliant

Low Dropout Regulators

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SA57000-30D-G	568-3306-1-ND	CapFREE™ 150mA, Low Noise LDO Regulator	SOT-23-5	.80	.60	.45
SA57000-30D-G	568-3306-2-ND	CapFREE™ 150mA, Low Noise LDO Regulator	SOT-23-5	780.00/3,000		
SA57000-33D-G	568-1184-1-ND	CapFREE™ 150mA Low Noise LDO Regulator	SOT-23-5	.88	.67	.50
SA57000-33D-G	568-1184-2-ND	CapFREE™ 150mA Low Noise LDO Regulator	SOT-23-5	862.29/3,000		
TDA3602U	568-3307-5-ND	Multiple Output Voltage Regulator	9-SIL	4.31	3.45	2.69
TDA3617JU	568-3308-5-ND	Multiple Output Voltage Regulator	9-SIL	4.57	3.66	2.85
TDA3664/N1-T	568-3309-1-ND	5V, 100mA LDO Regulator	4-SOIC	1.26	1.06	.85
TDA3664/N1-T	568-3309-2-ND	5V, 100mA LDO Regulator	4-SOIC	2189.72/4,000		
TDA3664ATD-T	568-3310-1-ND	5V, 100mA LDO Regulator	8-SOIC	1.11	.93	.74
TDA3664ATD-T	568-3310-2-ND	5V, 100mA LDO Regulator	8-SOIC	1197.30/2,500		
UBA2014P/N1	568-3321-5-ND	600V Driver IC for CFL and TL Lamps	16-Dip	2.11	1.69	1.27
UBA2014TD-T	568-3322-1-ND	600V Driver IC for HF Fluorescent Lamps	16-SOIC	2.34	1.88	1.46

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NXP Semiconductors

POWER SUPPLY PRODUCTS *(Continued)*

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UBA2014TD-T	568-3322-2-ND	600V Driver IC for HF Fluorescent Lamps	16-SOIC	3282.62/2,500		
UBA2021T/N2	568-3323-5-ND	630V Driver IC for CFL and TL Lamps	14-SOIC	2.11	1.69	1.27
UBA2024P/N1	568-3324-5-ND	Half-Bridge Power IC for CFL Lamps	8-Dip	2.11	1.69	1.27
UBA2032TS/N3-T	568-3325-1-ND	Full Bridge Driver	28-SSOP	3.55	2.85	2.22
UBA2032TS/N3-T	568-3325-2-ND	Full Bridge Driver	28-SSOP	2013.10/1,000		
UBA2033TS/N2-T	568-3326-1-ND	HF Full Bridge Driver	28-SSOP	3.55	2.85	2.22
UBA2033TS/N2-T	568-3326-2-ND	HF Full Bridge Driver	28-SSOP	2013.10/1,000		
UBA2070TD-T	568-3328-1-ND	600V CCFL Ballast Driver	16-SOIC	2.44	1.96	1.52
UBA2070TD-T	568-3328-2-ND	600V CCFL Ballast Driver	16-SOIC	3415.23/2,500		

DC-DC Converters

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PIP202-12M-2 /T3	568-2327-1-ND	DC-DC Converter Powertrain	68-HVQFN	8.63	6.91	5.83
PIP202-12M-2 /T3	568-2327-2-ND	DC-DC Converter Powertrain	68-HVQFN	13378.98/2,500		

NXP Semiconductors

TOPFET

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BUK202-50Y	568-3550-5-ND	PowerMOS Transistor TOPFET High Side Switch	TO-220-5	2.60	2.08	1.62
BUK204-50Y /T3	568-3551-1-ND	TOPFET High Side Switch SMD	D2-PAK	2.47	1.98	1.54
BUK205-50Y /T3	568-3552-1-ND	TOPFET High Side Switch SMD	D2-PAK	2.73	2.19	1.71
BUK205-50Y /T3	568-3552-2-ND	TOPFET High Side Switch SMD	D2-PAK	1263.60/800		
BUK209-50Y	568-3553-5-ND	TOPFET High Side Switch	TO-220-5	2.31	1.86	1.45
BUK214-50Y /T3	568-3554-1-ND	TOPFET High Side Switch SMD	D2-PAK	2.50	2.00	1.50
BUK214-50Y /T3	568-3554-2-ND	TOPFET High Side Switch SMD	D2-PAK	1079.57/800		

NXP Semiconductors

RADIO FREQUENCY ICs

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SA8028W	568-1304-ND	2.5GHz Sigma Delta Fractional-N/760MHz IF Integer Freq. Synthesizer	24-HBCC	5.26	4.22	3.56
SAA6588TD	568-1109-5-ND	RDS/RBDS Pre-Processor	20-Dip	5.96	4.77	4.03
TDA8002C/AD	568-3515-5-ND	IC Card Interface	28-SOIC	2.93	2.34	1.82
TDA8002C/BD	568-3516-5-ND	IC Card Interface	28-SOIC	2.93	2.34	1.82
TDA8002C/CD	568-3517-5-ND	IC Card Interface	28-SOIC	3.08	2.47	1.92
TDA8002CGB-T	568-3518-1-ND	IC Card Interface	32-LQFP	3.08	2.47	1.92
TDA8002CGB-T	568-3518-2-ND	IC Card Interface	32-LQFP	3489.42/2,000		
TDA8004TD-T	568-3519-1-ND	IC Card Interface	28-SOIC	2.37	1.90	1.48
TDA8004TD-T	568-3519-2-ND	IC Card Interface	28-SOIC	1342.07/1,000		
TDA8007BHLBE-T	568-3520-1-ND	IC Card Interface	48-LQFP	5.08	4.07	3.44
TDA8007BHLBE-T	568-3520-2-ND	IC Card Interface	48-LQFP	6355.25/2,000		
TDA8007BHLB-T	568-3521-1-ND	IC Card Interface	48-LQFP	5.08	4.07	3.44
TDA8007BHLB-T	568-3521-2-ND	IC Card Interface	48-LQFP	6355.25/2,000		
TDA8020HL2BD-T	568-3522-1-ND	Dual IC Card Interface	32-LQFP	3.43	2.75	2.14
TDA8020HL2BD-T	568-3522-2-ND	Dual IC Card Interface	32-LQFP	3892.07/2,000		
TDA8020HLBD-T	568-3523-1-ND	Dual IC Card Interface	32-LQFP	3.43	2.75	2.14
TDA8020HLBD-T	568-3523-2-ND	Dual IC Card Interface	32-LQFP	3892.07/2,000		
TDA8024TT-T	568-2447-1-ND	IC Card Interface	28-TSSOP	2.73	2.19	1.71
TDA8024TT-T	568-2447-2-ND	IC Card Interface	28-TSSOP	3827.88/2,500		
TDA8029HL06BD-T	568-3524-1-ND	LP Single Card Reader	32-LQFP	6.80	5.45	4.60
TDA8029HL06BD-T	568-3524-2-ND	LP Single Card Reader	32-LQFP	8505.50/2,000		
TEA5757HB	568-1218-ND	Self Tuned Radio	48-PQFP	4.65	3.73	2.90

FM ICs

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SA602AD/01-T	568-1200-1-ND	Double Balanced Mixer/Oscillator	8-SOIC	2.25	1.80	1.35
SA602AD/01-T	568-1200-2-ND	Double Balanced Mixer/Oscillator	8-SOIC	2880.00/2,500		
SA602AN/01	568-1201-5-ND	Double Balanced Mixer/Oscillator	8-Dip	2.25	1.80	1.35
SA606D/01	568-3575-5-ND	Mixer FM IF System	20-SOIC	4.83	3.87	3.01
SA615DK/01	568-3576-5-ND	Mixer FM IF System	20-SSOP	4.38	3.51	2.73

RFID

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCF7936ASM	568-1195-5-ND	Security Transponder, HITAG 2	Stick	3.67	2.94	2.29
SLRC41TOFED	568-1124-5-ND	I-CODE Reader IC	32-SOIC	7.39	5.92	4.99
TDA8029HL07BD-T	568-2233-1-ND	Low Power Single Card Reader	32-LQFP	6.80	5.45	4.60
TDA8029HL07BD-T	568-2233-2-ND	Low Power Single Card Reader	32-LQFP	8505.50/2,000		

NXP Semiconductors

REAL TIME CLOCKS

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA8565TS-T	568-1902-1-ND	I^{2}C Real Time Clock/Calendar	8-TSSOP	1.65	1.32	.99
PCA8565TS-T	568-1902-2-ND	I^{2}C Real Time Clock/Calendar	8-TSSOP	2112.00/2,500		
PCF8563BS/4-T	568-4205-1-ND	Real Time Clock/Calendar	10-HVSON	1.39	1.12	.84
PCF8563BS/4-T	568-4205-2-ND	Real Time Clock/Calendar	10-HVSON	4184.25/6,000		
PCF8563PN	568-1067-5-ND	Real Time Clock/Calendar	8-Dip	1.39	1.12	.84
PCF8563TD-T	568-1068-1-ND	Real Time Clock/Calendar	8-SOIC	1.39	1.12	.84
PCF8563TD-T	568-1068-2-ND	Real Time Clock/Calendar	8-SOIC	1785.28/2,500		
PCF8583PN	568-1084-5-ND	Clock/Calendar with 240x8-Bit RAM	8-Dip	2.61	2.09	1.63
PCF8583TD-T	568-1085-1-ND	Clock/Calendar with 240x8-Bit RAM	8-SOIC	1.97	1.58	1.19
PCF8583TD-T	568-1085-2-ND	Clock/Calendar with 240x8-Bit RAM	8-SOIC	1026.35/1,000		
PCF8593N	568-1089-5-ND	Low Power Clock/Calendar	8-Dip	3.08	2.47	1.92
PCF8593TD-T	568-1090-1-ND	Low Power Clock/Calendar	8-SOIC	2.37	1.90	1.48
PCF8593TD-T	568-1090-2-ND	Low Power Clock/Calendar	8-SOIC	3315.69/2,500		

NXP Semiconductors

SIGNAL CONTROLLERS

RoHS Compliant

Audio Processors / CODECS

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SAF7113HB	568-1319-ND	9-Bit Video Input Processor	44-QFP	20.53	19.16	17.79
TEA6320TD	568-1148-5-ND	Sound Fader Control Circuit	32-SOIC	4.11	3.29	2.56
UCB1400BE-T	568-1323-1-ND	Audio CODEC with Touch Screen Controller	48-LQFP	5.68	4.55	3.84
UCB1400BE-T	568-1323-2-ND	Audio CODEC with Touch Screen Controller	48-LQFP	7105.25/2,000		
UDA1338HB	568-3447-ND	Multichannel Audio Coder/Decoder	44-PQFP	7.03	5.63	4.75
UDA1341TSDB	568-1154-5-ND	Economy Audio CODEC for MiniDisc Home Stereo	28-SSOP	6.07	4.86	4.10
UDA1342TSDB	568-1155-5-ND	Audio CODEC	28-SSOP	6.07	4.86	4.10
UDA1344TSDB	568-1156-5-ND	Low Voltage, Low Power Stereo Audio CODEC with DSP	28-SSOP	5.58	4.47	3.48
UDA1345TSDB	568-1157-5-ND	Economy Audio CODEC	28-SSOP	3.29	2.64	2.05
UDA1361TSDK	568-1158-5-ND	96kHz Sampling 24-Bit Stereo Audio ADC	16-SSOP	3.26	2.61	2.03
UDA1384H	568-3450-ND	Multichannel Audio Coder/Decoder	44-QFP	5.10	4.09	3.45

Media Processors

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PNX1300EH/G	568-1292-ND	2.5V, 143MHz Programmable	292-HBGA	25.26	23.58	21.90
PNX1301EH/G	568-1293-ND	2.5V, 180MHz Programmable	292-HBGA	23.68	22.11	20.53
PNX1302EH/G	568-1294-ND	2.5V, 200MHz Programmable	292-HBGA	28.42	26.53	24.64
PNX1311EH/G	568-1295-ND	2.2V, 166MHz Programmable	292-HBGA	28.42	26.53	24.64
PNX1500E/G	568-1296-ND	1.2V, 240MHz Audio/Video/Graphics System	456-BGA	30.63	28.59	26.55
PNX1501E/G	568-1297-ND	1.2V, 266MHz Audio/Video/Graphics System	456-BGA	32.93	30.74	28.54
PNX1502E/G	568-1298-ND	1.3V, 300MHz Audio/Video/Graphics System	456-BGA	38.29	35.74	33.19

NXP Semiconductors Digi-Reel®

SPECIALIZED ICs

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
KMA199E T/R	568-4329-1-ND	Programmable Angle Sensor ***NEW!***	SOT-880	5.68	4.55	3.84
KMA199E T/R	568-4329-2-ND	Programmable Angle Sensor ***NEW!***	SOT-880	6394.73/1,800		
KMA200 T/R	568-4286-1-ND	Programmable Angle Sensor	SOT-637	12.31	11.09	9.83
KMA200 T/R	568-4286-2-ND	Programmable Angle Sensor	SOT-637	16421.08/1,800		
KMZ10B	568-3555-ND	Magnetic Field Sensor	SOT-195	4.93	3.95	3.08
KMZ51 T/R	568-2425-1-ND	Magnetic Field Sensor	8-SOIC	4.67	3.74	2.91
KMZ51 T/R	568-2425-2-ND	Magnetic Field Sensor	8-SOIC	2648.94/1,000		
KMZ52 /T3	568-2426-1-ND	Magnetic Field Sensor	16-SOIC	7.39	5.91	4.99
KMZ52 /T3	568-2426-2-ND	Magnetic Field Sensor	16-SOIC	11449.85/2,500		
NE57814DD-T	568-2332-1-ND	DDR Memory Termination	8-HSO	1.37	1.10	.83
NE57814DD-T	568-2332-2-ND	DDR Memory Termination	8-HSO	1751.68/2,500		
TDA6500TTDR-T	568-3589-1-ND	5V Mixer/Oscillator and Synthesizer	32-TSSOP	2.25	1.80	1.35

NXP Semiconductors

TEMPERATURE SENSORS

RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
KTY81/110	568-1003-ND	Silicon Temperature Sensor	SOD-70	1.36	1.09	.82
KTY81/121	568-3249-ND	Silicon Temperature Sensor	SOD-70	1.36	1.09	.82
KTY81/210	568-3250-ND	Silicon Temperature Sensor	SOD-70	1.36	1.09	.82
KTY81/220	568-3251-ND	Silicon Temperature Sensor	SOD-70	1.39	1.16	.93
KTY81/222	568-3252-ND	Silicon Temperature Sensor	SOD-70	1.36	1.09	.82
KTY83/110 T/R	568-3253-1-ND	Silicon Temperature Sensor	DO-34	1.47	1.23	.98
KTY83/110 T/R	568-3253-2-ND	Silicon Temperature Sensor	DO-34	6110.00/10,000		
KTY83/122 T/R	568-3248-1-ND	Silicon Temperature Sensor	DO-34	1.47	1.23	.98
KTY83/122 T/R	568-3248-2-ND	Silicon Temperature Sensor	DO-34	6110.00/10,000		
KTY84/130 T/R	568-3254-1-ND	Silicon Temperature Sensor	DO-34	1.70	1.36	1.02
KTY84/130 T/R	568-3254-2-ND	Silicon Temperature Sensor	DO-34	8316.53/10,000		
LM75AD	568-4226-5-ND	Digital Temperature Sensor and Thermal Watchdog	8-SOIC	.80	.60	.45
LM75ADP-T	568-4227-1-ND	Digital Temperature Sensor and Thermal Watchdog	8-TSSOP	.80	.60	.45
LM75ADP-T	568-4227-2-ND	Digital Temperature Sensor and Thermal Watchdog	8-TSSOP	650.00/2,500		
NE1619DS	568-4228-5-ND	HECETA4 Temperature and Voltage Monitor	16-SSOP	2.00	1.60	1.20
SA56004AD	568-3329-5-ND	Digital Temperature Sensor	8-SOIC	.90	.75	.60
SA56004ADP-T	568-3330-1-ND	Digital Temperature Sensor	8-TSSOP	.90	.75	.60
SA56004ADP-T	568-3330-2-ND	Digital Temperature Sensor	8-TSSOP	975.00/2,500		
SA56004BD	568-3331-5-ND	Digital Temperature Sensor	8-SOIC	.90	.75	.60
SA56004BDP-T	568-3332-1-ND	Digital Temperature Sensor	8-TSSOP	.90	.75	.60
SA56004BDP-T	568-3332-2-ND	Digital Temperature Sensor	8-TSSOP	975.00/2,500		
SA56004CD	568-3333-5-ND	Digital Temperature Sensor	8-SOIC	.90	.75	.60
SA56004CDP-T	568-3334-1-ND	Digital Temperature Sensor	8-TSSOP	.90	.75	.60
SA56004CDP-T	568-3334-2-ND	Digital Temperature Sensor	8-TSSOP	975.00/2,500		
SA56004DD	568-3335-5-ND	Digital Temperature Sensor	8-SOIC	.90	.75	.60
SA56004DDP-T	568-3336-1-ND	Digital Temperature Sensor	8-TSSOP	.90	.75	.60
SA56004DDP-T	568-3336-2-ND	Digital Temperature Sensor	8-TSSOP	975.00/2,500		
SA56004ED	568-3337-5-ND	Digital Temperature Sensor	8-SOIC	.90	.75	.60
SA56004EDP-T	568-3338-1-ND	Digital Temperature Sensor	8-TSSOP	.90	.75	.60
SA56004EDP-T	568-3338-2-ND	Digital Temperature Sensor	8-TSSOP	975.00/2,500		
SA56004FD	568-3339-5-ND	Digital Temperature Sensor	8-SOIC	.90	.75	.60
SA56004FDP-T	568-3340-1-ND	Digital Temperature Sensor	8-TSSOP	.90	.75	.60
SA56004FDP-T	568-3340-2-ND	Digital Temperature Sensor	8-TSSOP	975.00/2,500		
SA56004GD	568-3341-5-ND	Digital Temperature Sensor	8-SOIC	.90	.75	.60
SA56004GDP-T	568-3342-1-ND	Digital Temperature Sensor	8-TSSOP	.90	.75	.60
SA56004GDP-T	568-3342-2-ND	Digital Temperature Sensor	8-TSSOP	975.00/2,500		
SA56004HD	568-3343-5-ND	Digital Temperature Sensor	8-SOIC	.90	.75	.60
SA56004HDP-T	568-3344-1-ND	Digital Temperature Sensor	8-TSSOP	.90	.75	.60
SA56004HDP-T	568-3344-2-ND	Digital Temperature Sensor	8-TSSOP	975.00/2,500		
SE95DP-T	568-2051-1-ND	Ultra High Accuracy Digital Temp. Sensor and Thermal Watchdog™	8-TSSOP	.84	.70	.56
SE95DP-T	568-2051-2-ND	Ultra High Accuracy Digital Temp. Sensor and Thermal Watchdog™	8-TSSOP	910.00/2,500		
SE97PW-T	568-4291-1-ND	Memory Module Temp. Sensor with Integrated SPD	8-TSSOP	2.16	1.73	1.30
SE97PW-T	568-4291-2-ND	Memory Module Temp. Sensor with Integrated SPD	8-TSSOP	2762.24/2,500		
SE97TK-T	568-4292-1-ND	Memory Module Temp. Sensor with Integrated SPD	8-HVSON	2.16	1.73	1.30
SE97TK-T	568-4292-2-ND	Memory Module Temp. Sensor with Integrated SPD	8-HVSON	6474.00/6,000		
SE98PW-T	568-3346-1-ND	SO-DIMM SMBus I^{2}C Temp. Sensor	8-TSSOP	1.48	1.18	.89
SE98PW-T	568-3346-2-ND	SO-DIMM SMBus I^{2}C Temp. Sensor	8-TSSOP	1888.00/2,500		
SE98TK-T	568-3347-1-ND	SO-DIMM SMBus I^{2}C Temp. Sensor	8-HVSON	1.60	1.28	.96
SE98TK-T	568-3347-2-ND	SO-DIMM SMBus I^{2}C Temp. Sensor	8-HVSON	4800.00/6,000		

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NXP Semiconductors

TIMERS
RoHS Compliant

NXP Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AU7555D/01-T	568-1766-1-ND	General Purpose CMOS Timer	8-SOIC	.68	.51	.39
AU7555D/01-T	568-1766-2-ND	General Purpose CMOS Timer	8-SOIC	552.50/2,500		
ICM7555CD/01-T	568-1818-1-ND	General Purpose CMOS Timer	8-SOIC	.48	.38	.29
ICM7555CD/01-T	568-1818-2-ND	General Purpose CMOS Timer	8-SOIC	320.63/2,500		
ICM7555CN/01	568-1819-5-ND	General Purpose CMOS Timer	8-Dip	.50	.40	.30
ICM7555ID/01-T	568-1820-1-ND	General Purpose CMOS Timer	8-SOIC	.48	.36	.27
ICM7555ID/01-T	568-1820-2-ND	General Purpose CMOS Timer	8-SOIC	390.00/2,500		
ICM7555IN/01	568-1821-5-ND	General Purpose CMOS Timer	8-Dip	.48	.36	.27

TEXAS INSTRUMENTS

Digi-Reel®

AMPLIFIERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
3584JM	3584JM-ND	High-Voltage Op Amp	TO-3-8	256.98	239.85	222.72
BUF602ID	296-19309-5-ND	High-Speed Closed Loop Buffer	8-SOIC	2.03	1.62	1.22
BUF602IDBVT	296-19310-1-ND	High-Speed Closed Loop Buffer*	SOT-23-5	2.25	1.80	1.35
BUF602IDBVT	296-19310-2-ND	High-Speed Closed Loop Buffer*	SOT-23-5	315.00/250		
BUF634FKTTT	296-15904-1-ND	High-Speed Buffer, 250mA Output*	5-DDPAK	8.00	—	—
BUF634FKTTT	296-15904-2-ND	High-Speed Buffer, 250mA Output*	5-DDPAK	270.00/50		
BUF634P	BUF634P-ND	High-Speed Buffer, 250mA Output*	8-Dip	6.08	—	—
BUF634T	BUF634T-ND	High-Speed Buffer, 250mA Output*	TO-220-5	8.00	—	—
BUF634U	BUF634U-ND	High-Speed Buffer, 250mA Output	8-SOIC	6.08	—	—
BUF04701AIDGSR	296-12161-1-ND	4-Ch. R/R I/O CMOS Buffer Amp	10-MSOP	2.79	2.24	1.74
BUF04701AIDGSR	296-12161-2-ND	4-Ch. R/R I/O CMOS Buffer Amp	10-MSOP	4252.50/2,500		
BUF04701AIPWR	296-12162-1-ND	4-Ch. R/R I/O CMOS Buffer Amp	14-TSSOP	2.79	2.24	1.74
BUF04701AIPWR	296-12162-2-ND	4-Ch. R/R I/O CMOS Buffer Amp	14-TSSOP	3442.00/2,000		
BUF05703PWR	296-15206-1-ND	4-Channel LCD Gamma Correction Buffer	14-TSSOP	2.13	1.70	1.28
BUF05703PWR	296-15206-2-ND	4-Channel LCD Gamma Correction Buffer	14-TSSOP	2210.00/2,000		
BUF05704AIPWP	296-17458-ND	4-Channel, 18V, Gamma Correction Buffer*	14-TSSOP	2.13	1.70	1.28
BUF06703PWR	296-15207-1-ND	6-Channel LCD Gamma Correction Buffer	16-TSSOP	2.38	1.90	1.43
BUF06703PWR	296-15207-2-ND	6-Channel LCD Gamma Correction Buffer	16-TSSOP	2470.00/2,000		
BUF06704AIPWP	296-17457-ND	6-Channel, 18V, Gamma Correction Buffer*	16-TSSOP	2.38	1.90	1.43
BUF11702PWP	BUF11702PWP-ND	10+1 Ch. High Current Buffer	28-HTSSOP	3.49	2.79	2.17
BUF11704AIPWP	296-17140-5-ND	18V Supply Multi-Channel Gamma Correction Buffer	28-TSSOP	3.49	2.79	2.17
BUF12800AIPWP	296-17589-5-ND	Reference Voltage Generator	24-TSSOP	4.39	3.51	2.73
DEM-OPA-SO-1A	296-19589-ND	Generic Unpopulated PCB for Single Op Amps in 8-SOIC Packages	—	5.10	—	—
DEM-OPA-SO-1B	296-19716-ND	Demo Board for Single Op Amps in SO-8 Packages*	—	5.10	—	—
DEM-OPA-SOT-1A	296-20840-ND	Demo Fixture for SOT-23 Op Amps*	—	5.10	—	—
DEM-OPA-SOT-1B	296-19683-ND	Demo Board for Single Op Amps in SOT-23 Packages	—	5.10	—	—
DEM-OTA-SO-1A	296-20841-ND	Demo Fixture for 8-SOIC Op Amps	—	5.10	—	—
DEM-VCA-SO-1A	296-19684-ND	Demo Board for VCAs in SO-8 Packages*	—	5.10	—	—
DRV600RTJR	296-22153-1-ND	DIRECTPATH™ Stereo Line Driver ***NEW!***	20-QFN	1.78	1.42	1.07
DRV600RTJR	296-22153-2-ND	DIRECTPATH™ Stereo Line Driver ***NEW!***	20-QFN	2727.00/3,000		
DRV601RTJR	296-23150-1-ND	DIRECTPATH™ Stereo Line Driver, Adj. Gain ***NEW!***	20-QFN	1.88	1.50	1.13
DRV601RTJR	296-23150-2-ND	DIRECTPATH™ Stereo Line Driver, Adj. Gain ***NEW!***	20-QFN	2880.00/3,000		
DRV1100P	DRV1100P-ND	High Power Differential Driver Amp	8-Dip	6.30	5.04	4.25
DRV1100U	DRV1100U-ND	High Power Differential Driver Amp	8-SOIC	6.30	5.04	4.26
DRV1101U	DRV1101U-ND	High Power Differential Line Driver	8-SOIC	6.30	5.04	4.26
DRV1101U/2K5	DRV1101UTR-ND	High Power Differential Line Driver	8-SOIC	9920.00/2,500		
INA101AG	INA101AG-ND	Very High Accuracy Instr. Amp*	14-Dip	32.96	—	—
INA101AM	INA101AM-ND	Very High Accuracy Instr. Amp*	TO-100-10	24.80	—	—
INA101CM	INA101CM-ND	Very High Accuracy Instr. Amp*	TO-100-10	36.60	—	—
INA101HP	INA101HP-ND	Very High Accuracy Instr. Amp*	14-Dip	13.16	—	—
INA101KU	INA101KU-ND	Very High Accuracy Instr. Amp*	16-SOIC	13.24	—	—
INA101SM	INA101SM-ND	Very High Accuracy Instr. Amp*	TO-100-10	42.21	—	—
INA103KP	INA103KP-ND	Low Noise, Low Distortion Instr. Amp*	16-Dip	8.33	—	—
INA103KU	INA103KU-ND	LN, Low Distortion Instr. Amp*	16-SOIC	8.33	—	—
INA105BM	INA105BM-ND	Precision Unity Gain Diff. Amp*	TO-99	18.87	—	—
INA105KP	INA105KP-ND	Precision Unity Gain Diff. Amp	8-Dip	5.56	—	—
INA105KU	INA105KU-ND	Precision Unity Gain Diff. Amp*	8-SOIC	5.56	—	—
INA106KP	INA106KP-ND	Precision Fixed-Gain Differential Amp	8-Dip	8.33	—	—
INA106U	INA106U-ND	Precision Fixed-Gain Differential Amp*	8-SOIC	8.33	—	—
INA110KP	INA110KP-ND	Fast-Settling, FET-Input Instr. Amp	16-Dip	11.66	—	—
INA110KU	INA110KU-ND	Fast-Settling, FET-Input Instr. Amp	16-SOIC	11.66	—	—
INA111AP	INA111AP-ND	High Speed FET-Input Instr. Amp	8-Dip	8.34	—	—
INA111AU	INA111AU-ND	High Speed FET-Input Instr. Amp*	16-SOIC	8.34	—	—
INA111BP	INA111BP-ND	High Speed FET-Input Instr. Amp	8-Dip	11.15	—	—
INA111BU	INA111BU-ND	High Speed FET-Input Instr. Amp	16-SOIC	11.15	—	—
INA114AP	INA114AP-ND	Precision Instrumentation Amp*	8-Dip	8.34	—	—
INA114AU	INA114AU-ND	Precision Instrumentation Amp*	16-SOIC	8.34	—	—
INA114BP	INA114BP-ND	Precision Instrumentation Amp	8-Dip	9.48	—	—
INA114BU	INA114BU-ND	Precision Instrumentation Amp*	16-SOIC	9.48	—	—
INA115AU	INA115AU-ND	Precision Instrumentation Amp*	16-SOIC	8.40	—	—
INA115BU	INA115BU-ND	Precision Instrumentation Amp*	16-SOIC	10.33	—	—
INA116PA	INA116PA-ND	Ultra Low In Bias Current Instr. Amp	16-Dip	8.40	—	—
INA116UA	INA116UA-ND	Ultra Low In Bias Current Instr. Amp	16-SOIC	8.40	—	—
INA117KU	INA117KU-ND	High Common-Mode Volt., Diff. Amp	8-SOIC	5.40	—	—
INA117P	INA117P-ND	High Common-Mode Volt., Diff. Amp	8-Dip	5.40	—	—
INA118P	INA118P-ND	Precision Low Power Instr. Amp*	8-Dip	8.34	—	—
INA118PB	INA118PB-ND	Precision Low Power Instr. Amp*	8-Dip	10.78	—	—
INA118U	INA118U-ND	Precision Low Power Instr. Amp*	8-SOIC	8.34	—	—
INA118UB	INA118UB-ND	Precision Low Power Instr. Amp	8-SOIC	10.78	—	—
INA121P	INA121P-ND	Low Power FET Instrumentation Amp	8-Dip	7.10	—	—
INA121PA	INA121PA-ND	Low Power FET Instrumentation Amp	8-Dip	5.00	—	—
INA121U	INA121U-ND	Low Power FET Instrumentation Amp*	8-SOIC	7.10	—	—
INA121UA	INA121UA-ND	Low Power FET Instrumentation Amp	8-SOIC	5.00	—	—
INA121UA/2K5	INA121UATR-ND	Low Power FET Instrumentation Amp*	8-SOIC	7750.00/2,500		
INA121U/2K5	INA121UTR-ND	Low Power FET Instrumentation Amp*	8-SOIC	11005.00/2,500		
INA122P	INA122P-ND	Single Supply, Micropower Instr. Amp	8-Dip	5.56	—	—
INA122PA	INA122PA-ND	Single Supply, Micropower Instr. Amp*	8-Dip	4.79	—	—
INA122U	INA122U-ND	Single Supply, Micropower Instr. Amp	8-SOIC	5.56	—	—
INA122UA	INA122UA-ND	Single Supply, MPU Instr. Amp*	8-SOIC	4.79	—	—
INA125P	INA125P-ND	Instr. Amp with Precision Voltage Ref*	16-Dip	5.10	—	—
INA125PA	INA125PA-ND	Instr. Amp with Precision Voltage Ref	16-Dip	4.61	—	—
INA125U	INA125U-ND	Instr. Amp with Precision Voltage Ref	16-SOIC	5.10	—	—
INA125UA	INA125UA-ND	Instr. Amp with Precision Voltage Ref	16-SOIC	4.61	—	—
INA126ECT	INA126ECT-ND	Micropower Instrumentation Amp	8-MSOP	3.53	2.83	2.20
INA126E/250	INA126ETR-ND	Micropower Instrumentation Amp	8-MSOP	522.00/250		
INA126EA/250	INA126EACT-ND	Micropower Instrumentation Amp	8-MSOP	2.68	2.15	1.67
INA126EA/250	INA126EATR-ND	Micropower Instrumentation Amp	8-MSOP	395.75/250		
INA126P	INA126P-ND	Micropower Instrumentation Amp	8-Dip	2.99	2.40	1.87
INA126PA	INA126PA-ND	Micropower Instrumentation Amp*	8-Dip	2.25	1.80	1.40
INA126U	INA126U-ND	Micropower Instrumentation Amp*	8-SOIC	2.99	2.40	1.87
INA126UA	INA126UA-ND	Micropower Instrumentation Amp*	8-SOIC	2.25	1.80	1.40
INA128P	INA128P-ND	Precision Low Power Instr. Amp*	8-Dip	9.40	—	—
INA128PA	INA128PA-ND	Precision Low Power Instr. Amp*	8-Dip	5.80	—	—
INA128U	INA128U-ND	Precision Low Power Instr. Amp	8-SOIC	9.40	—	—
INA128UA	INA128UA-ND	Precision Low Power Instr. Amp	8-SOIC	5.80	—	—
INA129P	INA129P-ND	Precision Low Power Instr. Amp*	8-Dip	6.04	—	—
INA129PA	INA129PA-ND	Precision Low Power Instr. Amp*	8-Dip	5.46	—	—
INA129U	INA129U-ND	Precision Low Power Instr. Amp*	8-SOIC	6.04	—	—
INA129UA	INA129UA-ND	Precision Low Power Instr. Amp	8-SOIC	5.46	—	—
INA131BP	INA131BP-ND	Precision, Gain=100, Instr. Amp	8-Dip	9.50	—	—
INA132U	INA132U-ND	Low Power, Single-Supply Instr. Amp*	8-SOIC	3.38	—	—
INA132UA	INA132UA-ND	Low Power, Single-Supply Instr. Amp*	8-SOIC	2.59	—	—
INA133UA	INA133UA-ND	High Speed Precision Difference Amp*	8-SOIC	2.59	—	—
INA133U	INA133U-ND	High Speed Precision Difference Amp*	8-SOIC	3.38	—	—
INA134PA	INA134PA-ND	Audio Differential Line Receiver	8-Dip	2.36	—	—
INA134UA	INA134UA-ND	Audio Differential Line Receiver*	8-SOIC	2.36	—	—
INA137PA	INA137PA-ND	Audio Differential Line Receiver	8-Dip	2.36	—	—
INA137UA	INA137UA-ND	Audio Differential Line Receiver	8-SOIC	2.36	—	—
INA138NA/250	INA138NACT-ND	High-Side Current Shunt Monitor*	SOT-23-5	2.48	1.98	1.54
INA138NA/250	INA138NATR-ND	High-Side Current Shunt Monitor*	SOT-23-5	365.75/250		
INA138QPWRQ1	296-23178-1-ND	High-Side Current Shunt Monitor ***NEW!***	8-TSSOP	2.70	2.16	1.68
INA138QPWRQ1	296-23178-2-ND	High-Side Current Shunt Monitor ***NEW!***	8-TSSOP	3060.00/2,000		
INA139NA/250	INA139NA/250CT-ND	2.7V~40V Current Shunt Monitor*	SOT-23-5	2.48	1.98	1.54
INA139NA/250	INA139NA/250TR-ND	2.7V~40V Current Shunt Monitor*	SOT-23-5	365.75/250		
INA139QPWRQ1	296-17088-1-ND	High-Side, Unipolar, Current Shunt Monitor	8-TSSOP	2.70	2.16	1.68
INA139QPWRQ1	296-17088-2-ND	High-Side, Unipolar, Current Shunt Monitor	8-TSSOP	3060.00/2,000		
INA141U	INA141U-ND	Precision Low Power, Gain=10,100 Instrumentation Amp*	8-SOIC	9.03	—	—
INA141UA	INA141UA-ND	Precision Low Power, Gain=10,100 Instrumentation Amp	8-SOIC	6.74	—	—
INA143U	INA143U-ND	High Speed Diff. Gain=10 Instr. Amp*	8-SOIC	3.15	—	—
INA143UA	INA143UA-ND	High Speed Diff. Gain=10 Instr. Amp*	8-SOIC	2.36	—	—
INA145UA	INA145UA-ND	Programmable Difference Amp*	8-SOIC	3.38	—	—
INA146UA	INA146UA-ND	High-Voltage Differential Amp	8-SOIC	3.83	—	—
INA148UA	INA148UA-ND	Common-Mode Instrumentation Amp*	8-SOIC	4.73	—	—
INA152EA/2K5	INA152EA/2K5CT-ND	LP, Single Supply Diff. Amp*	8-MSOP	2.70	—	—
INA152EA/2K5	INA152EA/2K5TR-ND	LP, Single Supply Diff. Amp*	8-MSOP	3780.00/2,500		
INA154U	INA154U-ND	High-Speed Precision G=1 Diff. Amp*	8-SOIC	3.15	—	—
INA154UA	INA154UA-ND	High-Speed Precision G=1 Diff. Amp*	8-SOIC	2.36	—	—
INA155EA/250	INA155EACT-ND	R/R CMOS Instrumentation Amp	8-MSOP	2.70	—	—
INA155EA/250	INA155EATR-ND	R/R CMOS Instrumentation Amp	8-MSOP	399.00/250		
INA155E/250	INA155ECT-ND	R/R CMOS Instrumentation Amp	8-MSOP	3.71	—	—
INA155E/250	INA155ETR-ND	R/R CMOS Instrumentation Amp	8-MSOP	548.75/250		
INA155U	INA155U-ND	R/R CMOS Instrumentation Amp*	8-SOIC	3.26	—	—
INA155UA	INA155UA-ND	R/R CMOS Instrumentation Amp*	8-SOIC	2.48	—	—
INA156EA/250	INA156EACT-ND	CMOS Instrumentation Amp	8-MSOP	2.36	1.89	1.47
INA156EA/250	INA156EATR-ND	CMOS Instrumentation Amp	8-MSOP	349.25/250		
INA157U	INA157U-ND	HS Precision G=1/2 or G=2 Diff. Amp*	8-SOIC	3.15	—	—
INA157UA	INA157UA-ND	HS Precision G=1/2 or G=2 Diff. Amp*	8-SOIC	2.36	—	—
INA159AIDGKT	296-18688-1-ND	Precision Gain of 0.2 Level Translation Diff. Amp*	8-MSOP	3.94	3.15	2.45
INA159AIDGKT	296-18688-2-ND	Precision Gain of 0.2 Level Translation Diff. Amp*	8-MSOP	582.00/250		
INA163UA	INA163UA-ND	LN, Low Distort. Instr. Amp*	SO-14-50	5.04	—	—
INA163UA/2K5	INA163UATR-ND	LN, Low Distort. Instr. Amp*	SO-14-50	7812.50/2,500		
INA166UA	INA166UA-ND	Low Noise Instrumentation Amp	14-SOIC	9.91	—	—
INA166UA/2K5	INA166UATR-ND	Low Noise Instrumentation Amp*	14-SOIC	18072.50/2,500		
INA168NA/250	INA168NACT-ND	High-Side Current-Shunt Monitor	SOT-23-5	3.13	2.51	1.95
INA168NA/250	INA168NATR-ND	High-Side Current-Shunt Monitor	SOT-23-5	462.25/250		
INA168QPWRQ1	296-17201-1-ND	High-Side Current-Shunt Monitor	8-TSSOP	3.33	2.67	2.08
INA168QPWRQ1	296-17201-2-ND	High-Side Current-Shunt Monitor	8-TSSOP	3774.00/2,000		
INA169NA/250	INA169NA/250CT-ND	2.7V-60V Current-Shunt Monitor*	SOT-23-5	3.04	2.43	1.89
INA169NA/250	INA169NA/250TR-ND	2.7V-60V Current-Shunt Monitor*	SOT-23-5	449.00/250		
INA169QPWRQ1	296-17202-1-ND	2.7V-60V Current-Shunt Monitor	8-TSSOP	3.26	2.61	2.03
INA169QPWRQ1	296-17202-2-ND	2.7V-60V Current-Shunt Monitor	8-TSSOP	3698.00/2,000		
INA170EA/2K5	INA170EA/2K5CT-ND	Bidirectional Current-Shunt Monitor*	8-MSOP	2.84	—	—
INA170EA/2K5	INA170EA/2K5TR-ND	Bidirectional Current-Shunt Monitor*	8-MSOP	3970.00/2,500		
INA193AIDBVT	296-17163-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	2.25	1.80	1.35
INA193AIDBVT	296-17163-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	315.00/250		
INA193AMDBVREP	296-22154-1-ND	-16V to 80V Current-Shunt Monitor ***NEW!***	SOT-23-5	5.40	4.32	3.36
INA193AMDBVREP	296-22154-2-ND	-16V to 80V Current-Shunt Monitor ***NEW!***	SOT-23-5	9072.00/3,000		
INA193AQDBVRQ1	296-21443-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	2.38	1.90	1.43
INA193AQDBVRQ1	296-21443-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	3648.00/3,000		
INA194AIDBVT	296-17164-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	2.25	1.80	1.35
INA194AIDBVT	296-17164-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	315.00/250		
INA194AQDBVRQ1	296-22155-1-ND	-16V to 80V Current-Shunt Monitor ***NEW!***	SOT-23-5	2.38	1.90	1.43
INA194AQDBVRQ1	296-22155-2-ND	-16V to 80V Current-Shunt Monitor ***NEW!***	SOT-23-5	3648.00/3,000		
INA195AIDBVT	296-17165-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	2.25	1.80	1.35
INA195AIDBVT	296-17165-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	315.00/250		
INA195AQDBVRQ1	296-22156-1-ND	-16V to 80V Current-Shunt Monitor ***NEW!***	SOT-23-5	2.38	1.90	1.43
INA195AQDBVRQ1	296-22156-2-ND	-16V to 80V Current-Shunt Monitor ***NEW!***	SOT-23-5	3648.00/3,000		

***RoHS Compliant**

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
INA196AIDBVT	296-17166-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	2.25	1.80	1.35
INA196AIDBVT	296-17166-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	315.00/250		
INA196AQDBVRQ1	296-22157-1-ND	-16V to 80V Current-Shunt Monitor ***NEW!***	SOT-23-5	2.38	1.90	1.43
INA196AQDBVRQ1	296-22157-2-ND	-16V to 80V Current-Shunt Monitor ***NEW!***	SOT-23-5	3648.00/3,000		
INA197AIDBVT	296-17167-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	2.25	1.80	1.35
INA197AIDBVT	296-17167-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	315.00/250		
INA197AQDBVRQ1	296-22158-1-ND	-16V to 80V Current-Shunt Monitor ***NEW!***	SOT-23-5	2.38	1.90	1.43
INA197AQDBVRQ1	296-22158-2-ND	-16V to 80V Current-Shunt Monitor ***NEW!***	SOT-23-5	3648.00/3,000		
INA198AIDBVT	296-17168-1-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	2.25	1.80	1.35
INA198AIDBVT	296-17168-2-ND	-16V to 80V Current-Shunt Monitor	SOT-23-5	315.00/250		
INA198AQDBVRQ1	296-22159-1-ND	-16V to 80V Current-Shunt Monitor ***NEW!***	SOT-23-5	2.38	1.90	1.43
INA198AQDBVRQ1	296-22159-2-ND	-16V to 80V Current-Shunt Monitor ***NEW!***	SOT-23-5	3648.00/3,000		
INA200AIDGKR	296-21331-1-ND	High-Side Current-Shunt Monitor	8-MSOP	2.25	1.80	1.35
INA200AIDGKR	296-21331-2-ND	High-Side Current-Shunt Monitor	8-MSOP	2880.00/2,500		
INA201AIDGKR	296-21332-1-ND	High-Side Current-Shunt Monitor	8-MSOP	2.25	1.80	1.35
INA201AIDGKR	296-21332-2-ND	High-Side Current-Shunt Monitor	8-MSOP	2880.00/2,500		
INA202AID	296-23160-5-ND	High-Side Current-Shunt Monitor ***NEW!***	8-SOIC	2.25	1.80	1.35
INA202AIDGKR	296-21333-1-ND	High-Side Current-Shunt Monitor	8-MSOP	2.25	1.80	1.35
INA202AIDGKR	296-21333-2-ND	High-Side Current-Shunt Monitor	8-MSOP	2880.00/2,500		
INA203AIDGSR	296-21700-1-ND	Unidirectional, Current-Shunt Monitor	10-MSOP	2.81	2.25	1.75
INA203AIDGSR	296-21700-2-ND	Unidirectional, Current-Shunt Monitor	10-MSOP	3937.50/2,500		
INA204AIDGSR	296-21701-1-ND	Unidirectional, Current-Shunt Monitor	10-MSOP	2.81	2.25	1.75
INA204AIDGSR	296-21701-2-ND	Unidirectional, Current-Shunt Monitor	10-MSOP	3937.50/2,500		
INA205AIDGSR	296-21702-1-ND	Unidirectional, Current-Shunt Monitor	10-MSOP	2.81	2.25	1.75
INA205AIDGSR	296-21702-2-ND	Unidirectional, Current-Shunt Monitor	10-MSOP	3937.50/2,500		
INA206AID	296-20677-5-ND	Unidirectional, Current-Shunt Monitor*	14-SOIC	2.81	2.25	1.75
INA206AIDGST	296-21739-1-ND	Unidirectional, Current-Shunt Monitor	10-MSOP	3.15	2.52	1.96
INA206AIDGST	296-21739-2-ND	Unidirectional, Current-Shunt Monitor	10-MSOP	465.50/250		
INA207AID	296-20720-5-ND	Unidirectional Measurement Current-Shunt Monitor	14-SOIC	2.81	2.25	1.75
INA207AIDGSR	296-22160-1-ND	Unidirectional Measurement Current-Shunt Monitor ***NEW!***	10-MSOP	2.81	2.25	1.75
INA207AIDGSR	296-22160-2-ND	Unidirectional Measurement Current-Shunt Monitor ***NEW!***	10-MSOP	3937.50/2,500		
INA208AID	296-20721-5-ND	Unidirectional, Current-Shunt Monitor	14-SOIC	2.81	2.25	1.75
INA208AIDGST	296-21740-1-ND	Unidirectional, Current-Shunt Monitor	10-MSOP	3.15	2.52	1.96
INA208AIDGST	296-21740-2-ND	Unidirectional, Current Shunt Monitor	10-MSOP	465.50/250		
INA208AIPWR	296-22958-1-ND	Unidirectional, Current-Shunt Monitor ***NEW!***	14-TSSOP	2.81	2.25	1.75
INA208AIPWR	296-22958-2-ND	Unidirectional, Current-Shunt Monitor ***NEW!***	14-TSSOP	3188.00/2,000		
INA209AIPWR	296-21951-1-ND	High Side Measurement, Bidirectional Current/Power Monitor	16-TSSOP	7.00	5.60	4.73
INA209AIPWR	296-21951-2-ND	High Side Measurement, Bidirectional Current/Power Monitor	16-TSSOP	8750.00/2,000		
INA217AIDWT	296-13645-1-ND	LN, Low Distortion Instr. Amp	16-SOIC	5.50	—	—
INA217AIDWT	296-13645-2-ND	LN, Low Distortion Instr. Amp	16-SOIC	893.75/250		
INA217AIP	296-13452-5-ND	LN, Low Distortion Instr. Amp	8-Dip	5.00	—	—
INA270AIDR	296-21649-1-ND	14V Output, Unidirectional Measurement Current-Shunt Monitor	8-SOIC	2.81	2.25	1.75
INA270AIDR	296-21649-2-ND	14V Output, Unidirectional Measurement Current-Shunt Monitor	8-SOIC	3937.50/2,500		
INA270AQDRQ1	296-23016-1-ND	14V Output, Unidirectional Measurement Current-Shunt Monitor ***NEW!***	8-SOIC	3.38	2.70	2.10
INA270AQDRQ1	296-23016-2-ND	14V Output, Unidirectional Measurement Current-Shunt Monitor ***NEW!***	8-SOIC	4725.00/2,500		
INA271AIDR	296-21650-1-ND	20V Output, Unidirectional Measurement Current-Shunt Monitor	8-SOIC	2.81	2.25	1.75
INA271AIDR	296-21650-2-ND	20V Output, Unidirectional Measurement Current-Shunt Monitor	8-SOIC	3937.50/2,500		
INA271AQDRQ1	296-23017-1-ND	20V Output, Unidirectional Measurement Current-Shunt Monitor ***NEW!***	8-SOIC	3.38	2.70	2.10
INA271AQDRQ1	296-23017-2-ND	20V Output, Unidirectional Measurement Current-Shunt Monitor ***NEW!***	8-SOIC	4725.00/2,500		
INA321E/250	INA321ECT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	3.71	—	—
INA321E/250	INA321ETR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	548.75/250		
INA321E/2K5	296-14586-1-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	3.38	—	—
INA321E/2K5	296-14586-2-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	4725.00/2,500		
INA321EA/2K5	296-19951-1-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	2.48	—	—
INA321EA/2K5	296-19951-2-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	3465.00/2,500		
INA321EA/250	INA321EACT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	2.70	—	—
INA321EA/250	INA321EATR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	399.00/250		
INA322EA/250	INA322EACT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	2.36	1.89	1.47
INA322EA/250	INA322EATR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	349.25/250		
INA326EA/2K5	INA326EA/2K5CT-ND	Precision, R/R I/O Instr. Amp	8-MSOP	4.05	3.24	2.52
INA326EA/2K5	INA326EA/2K5TR-ND	Precision, R/R I/O Instr. Amp	8-MSOP	5670.00/2,500		
INA326EA/250	296-15312-1-ND	Precision, R/R I/O Instr. Amp	8-MSOP	4.50	3.60	2.80
INA326EA/250	296-15312-2-ND	Precision, R/R I/O Instr. Amp	8-MSOP	665.00/250		
INA327EA/2K5	INA327EA/2K5CT-ND	Prec., R/R I/O Instr. Amp with SD	10-MSOP	4.39	3.51	2.73
INA327EA/2K5	INA327EA/2K5TR-ND	Prec., R/R I/O Instr. Amp with SD	10-MSOP	6142.50/2,500		
INA327EA/250	296-15953-1-ND	Prec., R/R I/O Instr. Amp with SD	10-MSOP	4.84	3.87	3.01
INA327EA/250	296-15953-2-ND	Prec., R/R I/O Instr. Amp with SD	10-MSOP	715.00/250		
INA330AIDGST	296-13861-1-ND	Thermistor Signal Amp for Temperature Control	10-MSOP	3.83	3.06	2.38
INA330AIDGST	296-13861-2-ND	Thermistor Signal Amp for Temperature Control	10-MSOP	565.25/250		
INA331AIDGKT	296-12202-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	2.81	—	—
INA331AIDGKT	296-12202-2-ND	Low Power, CMOS Instr. Amp	8-MSOP	415.75/250		
INA331IDGKT	296-12203-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	3.71	—	—
INA331IDGKT	296-12203-2-ND	Low Power, CMOS Instr. Amp	8-MSOP	548.75/250		
INA332AIDGKT	296-12204-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	2.38	1.90	1.43
INA332AIDGKT	296-12204-2-ND	Low Power, CMOS Instr. Amp	8-MSOP	332.50/250		
INA337AIDGKT	296-13453-1-ND	Wide Temperature, Precision Instrumentation Amplifier	8-MSOP	4.50	3.60	2.80
INA337AIDGKT	296-13453-2-ND	Wide Temperature, Precision Instrumentation Amplifier	8-MSOP	665.00/250		
INA338AIDGST	296-13454-1-ND	Wide Temperature, Precision Instr. Amp. with Shutdown	10-MSOP	4.84	3.87	3.01
INA338AIDGST	296-13454-2-ND	Wide Temperature, Precision Instr. Amp. with Shutdown	10-MSOP	715.00/250		
INA2126EA/250	INA2126EACT-ND	Dual, Micropower Instr. Amp	16-SSOP	4.28	—	—
INA2126EA/250	INA2126EATR-ND	Dual, Micropower Instr. Amp	16-SSOP	631.75/250		
INA2126E/250	INA2126ECT-ND	Dual, Micropower Instr. Amp	16-SSOP	5.56	—	—
INA2126E/250	INA2126ETR-ND	Dual, Micropower Instr. Amp	16-SSOP	821.25/250		
INA2126P	INA2126P-ND	Dual, Micropower Instr. Amp	16-Dip	4.82	—	—
INA2126PA	INA2126PA-ND	Dual, Micropower Instr. Amp	16-Dip	3.65	—	—
INA2126U	INA2126U-ND	Dual, Micropower Instr. Amp	16-SOIC	4.82	—	—
INA2126UA	INA2126UA-ND	Dual, Micropower Instr. Amp	16-SOIC	3.65	—	—
INA2128U	INA2128U-ND	Dual, Low Power Instr. Amp	16-SOIC	12.43	—	—
INA2128UA	INA2128UA-ND	Dual, Low Power Instr. Amp	16-SOIC	9.32	—	—
INA2132U	INA2132U-ND	Dual, LP, Single-Supply Diff. Amp	14-SOIC	5.29	—	—
INA2132UA	INA2132UA-ND	Dual, LP, Single-Supply Diff. Amp	14-SOIC	4.05	—	—
INA2133U	INA2133U-ND	Dual, High-Speed, Diff. Amp	14-SOIC	5.29	—	—
INA2133UA	INA2133UA-ND	Dual, High-Speed, Diff. Amp	14-SOIC	4.05	—	—
INA2134PA	INA2134PA-ND	Dual, Audio Differential Line Receiver	14-Dip	3.83	—	—
INA2134UA	INA2134UA-ND	Dual, Audio Differential Line Receiver	14-SOIC	3.83	—	—
INA2137PA	INA2137PA-ND	Dual, Audio Differential Line Receiver	14-Dip	3.83	—	—
INA2137UA	INA2137UA-ND	Dual, Audio Differential Line Receiver	14-SOIC	3.83	—	—
INA2141U	INA2141U-ND	Dual, Gain=10,100 Instr. Amp	16-SOIC	14.41	—	—
INA2141UA	INA2141UA-ND	Dual, Gain=10,100 Instr. Amp	16-SOIC	8.95	—	—
INA2143U	INA2143U-ND	Dual, High Speed Precision Gain=10 Difference Amp	14-SOIC	5.06	—	—
INA2143UA	INA2143UA-ND	Dual, High Speed Precision Gain=10 Difference Amp	14-SOIC	3.83	—	—
INA2321EA/250	INA2321EACT-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	4.39	—	—
INA2321EA/250	INA2321EATR-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	648.50/250		
INA2322EA/250	INA2322EACT-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	3.71	2.97	2.31
INA2322EA/250	INA2322EATR-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	548.75/250		
INA2331AIPWR	INA2331AIPWRCT-ND	Low Power R/R CMOS Instr. Amp	14-TSSOP	4.05	—	—
INA2331AIPWR	INA2331AIPWRTR-ND	Low Power R/R CMOS Instr. Amp	14-TSSOP	5670.00/2,500		
INA2331AIPWT	296-17647-1-ND	Low Power R/R CMOS Instr. Amp	14-TSSOP	4.39	—	—
INA2331AIPWT	296-17647-2-ND	Low Power R/R CMOS Instr. Amp	14-TSSOP	648.50/250		
INA2332AIPWR	INA2332AIPWRCT-ND	Low Power R/R CMOS Instr. Amp	14-TSSOP	3.04	2.43	1.89
INA2332AIPWR	INA2332AIPWRTR-ND	Low Power R/R CMOS Instr. Amp	14-TSSOP	4252.50/2,500		
ISO100AP	ISO100AP-ND	Low Leakage Isolation Amp	18-Dip	125.46	117.10	108.74
ISO121BG	296-12577-5-ND	2500 VRMS Precision Isolation Amp	40-Dip	110.10	102.76	95.42
ISO122JP	ISO122JP-ND	Low-Cost Precision Isolation Amp	16-Dip	15.71	—	—
ISO122JU	ISO122JU-ND	Low-Cost Precision Isolation Amp	28-SOIC	15.71	—	—
ISO122P	ISO122P-ND	Low-Cost Precision Isolation Amp	16-Dip	17.60	—	—
ISO122U	ISO122U-ND	Low-Cost Precision Isolation Amp	28-SOIC	17.60	—	—
ISO124P	ISO124P-ND	Low-Cost Precision Isolation Amp	16-Dip	12.01	—	—
ISO124U	ISO124U-ND	Low-Cost Precision Isolation Amp	28-SOIC	12.01	—	—
LF347BD	296-7136-5-ND	Quad WB JFET Op Amp	14-SOIC	1.50	1.20	.90
LF347D	296-7137-5-ND	Quad WB JFET Op Amp	14-SOIC	.68	.51	.39
LF347DR	296-7137-1-ND	Quad WB JFET Op Amp	14-SOIC	.57	.43	.33
LF347DR	296-7137-2-ND	Quad WB JFET Op Amp	14-SOIC	465.00/2,500		
LF347N	296-7138-5-ND	Quad WB JFET Op Amp	14-Dip	.68	.51	.39
LF353D	296-1384-5-ND	Dual JFET Op Amp	8-SOIC	.50	.41	.28
LF353DR	296-14587-1-ND	Dual JFET Op Amp	8-SOIC	.50	.41	.28
LF353DR	296-14587-2-ND	Dual JFET Op Amp	8-SOIC	327.50/2,500		
LF353P	296-7139-5-ND	Dual JFET Op Amp	8-Dip	.50	.41	.28
LF411CD	296-12846-5-ND	High Speed JFET Op Amp	8-SOIC	1.05	.88	.70
LF412CD	296-7140-5-ND	Dual JFET Op Amp	8-SOIC	.97	.73	.55
LF412CDR	296-14588-1-ND	Dual JFET Op Amp	8-SOIC	.97	.73	.55
LF412CDR	296-14588-2-ND	Dual JFET Op Amp	8-SOIC	787.50/2,500		
LF412CP	296-7141-5-ND	Dual JFET Op Amp	8-Dip	1.14	.95	.76
LM124DR	296-16907-1-ND	Quad Op Amp	14-SOIC	.92	.69	.52
LM124DR	296-16907-2-ND	Quad Op Amp	14-SOIC	747.50/2,500		
LM224AD	296-7029-5-ND	Quad Op Amp	14-SOIC	.60	.45	.34
LM224ADR	296-7029-1-ND	Quad Op Amp	14-SOIC	.50	.41	.28
LM224ADR	296-7029-2-ND	Quad Op Amp	14-SOIC	327.50/2,500		
LM224DR	296-12847-1-ND	Quad Op Amp	14-SOIC	.47	.38	.26
LM224DR	296-12847-2-ND	Quad Op Amp	14-SOIC	305.00/2,500		
LM224KADR	296-18433-1-ND	Quad Op Amp	14-SOIC	.54	.41	.31
LM224KADR	296-18433-2-ND	Quad Op Amp	14-SOIC	440.00/2,500		
LM224KAN	296-18434-5-ND	Quad Op Amp	14-Dip	.54	.41	.31
LM224KDR	296-18435-1-ND	Quad Op Amp	14-SOIC	.54	.41	.31
LM224KDR	296-18435-2-ND	Quad Op Amp	14-SOIC	440.00/2,500		
LM224KN	296-18436-5-ND	Quad Op Amp	14-Dip	.54	.41	.31
LM224N	296-7030-5-ND	Quad Op Amp	14-Dip	.42	.34	.25
LM236D-2-5	296-7031-5-ND	2.5V Integrated Reference Circuit	8-SOIC	1.25	1.00	.75
LM237KC	296-7032-5-ND	3-Terminal Adj. Voltage Regulator	TO-220AB	1.25	1.00	.75
LM248D	296-6622-5-ND	Quad Op Amp	14-SOIC	.90	.75	.60
LM248N	296-6623-5-ND	Quad Op Amp	14-Dip	.90	.75	.60
LM258ADGKR	296-17216-1-ND	Dual Op Amp	8-VSSOP	1.25	1.00	.75
LM258ADGKR	296-17216-2-ND	Dual Op Amp	8-VSSOP	845.00/2,500		
LM258ADR	296-15169-1-ND	Dual Op Amp	8-SOIC	.75	.63	.50
LM258ADR	296-15169-2-ND	Dual Op Amp	8-SOIC	812.50/2,500		
LM258AMDREP	296-22163-1-ND	Dual Op Amp ***NEW!***	8-SOIC	2.59	2.07	1.61
LM258AMDREP	296-22163-2-ND	Dual Op Amp ***NEW!***	8-SOIC	3622.50/2,500		
LM258D	296-6624-5-ND	Dual Op Amp	8-SOIC	.42	.34	.25
LM258DGKR	296-17217-1-ND	Dual Op Amp	8-VSSOP	.60	.48	.36
LM258DGKR	296-17217-2-ND	Dual Op Amp	8-VSSOP	405.00/2,500		
LM258DR	296-14591-1-ND	Dual Op Amp	8-SOIC	.42	.34	.25
LM258DR	296-14591-2-ND	Dual Op Amp	8-SOIC	280.00/2,500		

***** *RoHS Compliant*

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM258P	296-6625-5-ND	Dual Op Amp	8-Dip	.55	.44	.33
LM293ADGKR	296-17218-1-ND	Dual Differential Comparator	8-MSOP	.60	.48	.36
LM293ADGKR	296-17218-2-ND	Dual Differential Comparator	8-MSOP	405.00/2,500		
LM293DGKR	296-17219-1-ND	Dual Differential Comparator	8-VSSOP	.55	.44	.33
LM293DGKR	296-17219-2-ND	Dual Differential Comparator	8-VSSOP	372.50/2,500		
LM318D	296-9538-5-ND	Single High Speed Op Amp	8-SOIC	1.20	1.00	.80
LM318P	296-9539-5-ND	Single High Speed Op Amp	8-Dip	1.20	1.00	.80
LM324AD	296-9540-5-ND	Quad General Purpose Op Amp	14-SOIC	.50	.41	.28
LM324ADR	296-9540-1-ND	Quad General Purpose Op Amp	14-SOIC	.50	.41	.28
LM324ADR	296-9540-2-ND	Quad General Purpose Op Amp	14-SOIC	327.50/2,500		
LM324ADBR	296-9541-1-ND	Quad General Purpose Op Amp	14-SSOP	.48	.36	.27
LM324ADBR	296-9541-2-ND	Quad General Purpose Op Amp	14-SSOP	320.00/2,000		
LM324AN	296-9542-5-ND	Quad General Purpose Op Amp	14-Dip	.44	.36	.27
LM324ANSR	296-9543-1-ND	Quad General Purpose Op Amp	14-SOP	.50	.40	.30
LM324ANSR	296-9543-2-ND	Quad General Purpose Op Amp	14-SOP	280.00/2,000		
LM324APWR	296-9544-1-ND	Quad General Purpose Op Amp	14-TSSOP	.50	.41	.28
LM324APWR	296-9544-2-ND	Quad General Purpose Op Amp	14-TSSOP	278.00/2,000		
LM324D	296-1390-5-ND	Quad General Purpose Op Amp	14-SOIC	.48	.39	.27
LM324DR	296-14597-1-ND	Quad General Purpose Op Amp	14-SOIC	.48	.39	.27
LM324DR	296-14597-2-ND	Quad General Purpose Op Amp	14-SOIC	315.00/2,500		
LM324KADR	296-18447-1-ND	Quad General Purpose Op Amp	14-SOIC	.53	.42	.32
LM324KADR	296-18447-2-ND	Quad General Purpose Op Amp	14-SOIC	355.00/2,500		
LM324KAN	296-17882-5-ND	Quad General Purpose Op Amp	14-Dip	.53	.42	.32
LM324KANSR	296-18448-1-ND	Quad General Purpose Op Amp	14-SOP	.53	.42	.32
LM324KANSR	296-18448-2-ND	Quad General Purpose Op Amp	14-SOP	294.00/2,000		
LM324KAPWR	296-18449-1-ND	Quad General Purpose Op Amp	14-TSSOP	.53	.42	.32
LM324KAPWR	296-18449-2-ND	Quad General Purpose Op Amp	14-TSSOP	294.00/2,000		
LM324KDR	296-18450-1-ND	Quad General Purpose Op Amp	14-SOIC	.50	.40	.30
LM324KDR	296-18450-2-ND	Quad General Purpose Op Amp	14-SOIC	337.50/2,500		
LM324KN	296-18451-5-ND	Quad General Purpose Op Amp	14-Dip	.50	.40	.30
LM324KNSR	296-18452-1-ND	Quad General Purpose Op Amp	14-SOP	.50	.40	.30
LM324KNSR	296-18452-2-ND	Quad General Purpose Op Amp	14-SOP	280.00/2,000		
LM324KPWR	296-18453-1-ND	Quad General Purpose Op Amp	14-TSSOP	.50	.40	.30
LM324KPWR	296-18453-2-ND	Quad General Purpose Op Amp	14-TSSOP	280.00/2,000		
LM324N	296-1391-5-ND	Quad General Purpose Op Amp	14-Dip	.42	.34	.25
LM324PWR	296-9545-1-ND	Quad General Purpose Op Amp	14-TSSOP	.50	.41	.28
LM324PWR	296-9545-2-ND	Quad General Purpose Op Amp	14-TSSOP	278.00/2,000		
LM348D	296-9552-5-ND	Quad General Purpose Op Amp	14-SOIC	.45	.36	.27
LM348DR	296-14600-1-ND	Quad General Purpose Op Amp	14-SOIC	.51	.42	.29
LM348DR	296-14600-2-ND	Quad General Purpose Op Amp	14-SOIC	335.00/2,500		
LM358AD	296-9553-5-ND	Dual Op Amp	8-SOIC	.51	.41	.29
LM358ADGKR	296-18455-1-ND	Dual Op Amp	8-MSOP	.50	.40	.30
LM358ADGKR	296-18455-2-ND	Dual Op Amp	8-MSOP	337.50/2,500		
LM358ADR	296-14601-1-ND	Dual Op Amp	8-SOIC	.51	.41	.29
LM358ADR	296-14601-2-ND	Dual Op Amp	8-SOIC	332.50/2,500		
LM358AP	296-9554-5-ND	Dual Op Amp	8-Dip	.42	.34	.25
LM358APWR	296-18456-1-ND	Dual Op Amp	8-TSSOP	.50	.40	.30
LM358APWR	296-18456-2-ND	Dual Op Amp	8-TSSOP	280.00/2,000		
LM358D	296-1014-5-ND	Dual Op Amp	8-SOIC	.44	.36	.25
LM358DGKR	296-18457-1-ND	Dual Op Amp	8-MSOP	.50	.40	.30
LM358DGKR	296-18457-2-ND	Dual Op Amp	8-MSOP	337.50/2,500		
LM358DR	296-1014-1-ND	Dual Op Amp	8-SOIC	.44	.36	.25
LM358DR	296-1014-2-ND	Dual Op Amp	8-SOIC	285.00/2,500		
LM358P	296-1395-5-ND	Dual Op Amp	8-Dip	.50	.41	.28
LM358PSR	296-1396-1-ND	Dual Op Amp	8-SOP	.45	.36	.27
LM358PSR	296-1396-2-ND	Dual Op Amp	8-SOP	252.00/2,000		
LM358PWR	296-9555-1-ND	Dual Op Amp	8-TSSOP	.50	.41	.28
LM358PWR	296-9555-2-ND	Dual Op Amp	8-TSSOP	278.00/2,000		
LM392DGKR	296-20644-1-ND	LP Op Amp and Voltage Comparator	8-MSOP	1.29	1.08	.86
LM392DGKR	296-20644-2-ND	LP Op Amp and Voltage Comparator	8-MSOP	1397.50/2,500		
LM392DR	296-20853-1-ND	LP Op Amp and Voltage Comparator	8-SOIC	1.14	.95	.76
LM392DR	296-20853-2-ND	LP Op Amp and Voltage Comparator	8-SOIC	1235.00/2,500		
LM392P	296-20854-5-ND	LP Op Amp and Voltage Comparator	8-Dip	1.14	.95	.76
LM2900DR	296-9525-1-ND	Quad Op Amp	14-SOIC	.50	.40	.30
LM2900DR	296-9525-2-ND	Quad Op Amp	14-SOIC	337.50/2,500		
LM2900N	296-9526-5-ND	Quad Op Amp	14-Dip	.44	.36	.27
LM2902D	296-6598-5-ND	Quad Op Amp	14-SOIC	.47	.39	.27
LM2902DR	296-14594-1-ND	Quad Op Amp	14-SOIC	.47	.39	.27
LM2902DR	296-14594-2-ND	Quad Op Amp	14-SOIC	310.00/2,500		
LM2902KAVMPWREP	296-21230-1-ND	Quad Op Amp	14-TSSOP	1.50	1.20	.90
LM2902KAVMPWREP	296-21230-2-ND	Quad Op Amp	14-TSSOP	1560.00/2,000		
LM2902KAVQDR	296-17253-1-ND	Quad Op Amp	14-SOIC	.52	.39	.30
LM2902KAVQDR	296-17253-2-ND	Quad Op Amp	14-SOIC	422.50/2,500		
LM2902KAVQDRQ1	296-18439-1-ND	Quad Op Amp	14-SOIC	.60	.45	.34
LM2902KAVQDRQ1	296-18439-2-ND	Quad Op Amp	14-SOIC	487.50/2,500		
LM2902KAVQPWREP	296-22164-1-ND	Quad Op Amp ***NEW!***	14-TSSOP	.96	.80	.64
LM2902KAVQPWREP	296-22164-2-ND	Quad Op Amp ***NEW!***	14-TSSOP	852.00/2,000		
LM2902KAVQPWRG4	296-23073-1-ND	Quad Op Amp ***NEW!***	14-TSSOP	.52	.39	.30
LM2902KAVQPWRG4	296-23073-2-ND	Quad Op Amp ***NEW!***	14-TSSOP	346.00/2,000		
LM2902KDR	296-18440-5-ND	Quad Op Amp	14-SOIC	.55	.44	.33
LM2902KN	296-18441-5-ND	Quad Op Amp	14-Dip	.55	.44	.33
LM2902KNSR	296-18442-1-ND	Quad Op Amp	14-SOP	.55	.44	.33
LM2902KNSR	296-18442-2-ND	Quad Op Amp	14-SOP	308.00/2,000		
LM2902KPWR	296-18443-1-ND	Quad Op Amp	14-TSSOP	.55	.44	.33
LM2902KPWR	296-18443-2-ND	Quad Op Amp	14-TSSOP	308.00/2,000		
LM2902KVQDR	296-17396-1-ND	Quad Op Amp	14-SOIC	.52	.39	.30
LM2902KVQDR	296-17396-2-ND	Quad Op Amp	14-SOIC	422.50/2,500		
LM2902KVQDRQ1	296-17027-1-ND	Quad Op Amp	14-SOIC	.56	.42	.32
LM2902KVQDRQ1	296-17027-2-ND	Quad Op Amp	14-SOIC	455.00/2,500		
LM2902KVQPWRQ1	296-17714-1-ND	Quad Op Amp	14-TSSOP	.56	.42	.32
LM2902KVQPWRQ1	296-17714-2-ND	Quad Op Amp	14-TSSOP	372.00/2,000		
LM2902N	296-6599-5-ND	Quad Op Amp	14-Dip	.43	.34	.26
LM2902PWR	296-6600-1-ND	Quad Op Amp	14-TSSOP	.47	.39	.27
LM2902PWR	296-6600-2-ND	Quad Op Amp	14-TSSOP	262.00/2,000		
LM2902QDRQ1	296-16814-1-ND	Quad Op Amp	14-SOIC	.48	.36	.27
LM2902QDRQ1	296-16814-2-ND	Quad Op Amp	14-SOIC	390.00/2,500		
LM2902QPWRQ1	296-16908-1-ND	Quad Op Amp	14-TSSOP	.76	.62	.43
LM2902QPWRQ1	296-16908-2-ND	Quad Op Amp	14-TSSOP	422.00/2,000		
LM2904AVQDRQ1	296-18445-1-ND	Dual General Purpose Op Amp	8-SOIC	.60	.45	.34
LM2904AVQDRQ1	296-18445-2-ND	Dual General Purpose Op Amp	8-SOIC	487.50/2,500		
LM2904AVQPWRG4	296-22007-1-ND	Dual GP Op Amp ***NEW!***	8-TSSOP	.52	.39	.30
LM2904AVQPWRG4	296-22007-2-ND	Dual GP Op Amp ***NEW!***	8-TSSOP	346.00/2,000		
LM2904AVQPWRQ1	296-17791-1-ND	Dual General Purpose Op Amp	8-TSSOP	.60	.45	.34
LM2904AVQPWRQ1	296-17791-2-ND	Dual General Purpose Op Amp	8-TSSOP	400.00/2,000		
LM2904D	296-9527-5-ND	Dual General Purpose Op Amp	8-SOIC	.42	.35	.24

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2904DGKR	296-17931-1-ND	Dual General Purpose Op Amp	8-MSOP	.50	.40	.30
LM2904DGKR	296-17931-2-ND	Dual General Purpose Op Amp	8-MSOP	337.50/2,500		
LM2904DR	296-14596-1-ND	Dual General Purpose Op Amp	8-SOIC	.42	.35	.24
LM2904DR	296-14596-2-ND	Dual General Purpose Op Amp	8-SOIC	277.50/2,500		
LM2904P	296-9528-5-ND	Dual General Purpose Op Amp	8-Dip	.43	.35	.24
LM2904PWR	296-9529-1-ND	Dual General Purpose Op Amp	8-TSSOP	.47	.38	.26
LM2904PWR	296-9529-2-ND	Dual General Purpose Op Amp	8-TSSOP	260.00/2,000		
LM2904QDRQ1	296-15184-1-ND	Dual General Purpose Op Amp	8-SOIC	.48	.36	.27
LM2904QDRQ1	296-15184-2-ND	Dual General Purpose Op Amp	8-SOIC	390.00/2,500		
LM2904QPWRQ1	296-18446-1-ND	Dual General Purpose Op Amp	8-TSSOP	.48	.36	.27
LM2904QPWRQ1	296-18446-2-ND	Dual General Purpose Op Amp	8-TSSOP	320.00/2,000		
LM2904VQDRQ1	296-17099-1-ND	Dual General Purpose Op Amp	8-SOIC	.56	.42	.32
LM2904VQDRQ1	296-17099-2-ND	Dual General Purpose Op Amp	8-SOIC	455.00/2,500		
LM2904VQPWRQ1	296-19590-1-ND	Dual General Purpose Op Amp	8-TSSOP	.56	.42	.32
LM2904VQPWRQ1	296-19590-2-ND	Dual General Purpose Op Amp	8-TSSOP	372.00/2,000		
LM3900D	296-9564-5-ND	Quad Op Amp	14-SOIC	.96	.80	.64
LM3900DR	296-14604-1-ND	Quad Op Amp	14-SOIC	.96	.80	.64
LM3900DR	296-14604-2-ND	Quad Op Amp	14-SOIC	1040.00/2,500		
LM3900N	296-9565-5-ND	Quad Op Amp	14-Dip	.96	.80	.64
LMV321IDBVR	296-9567-1-ND	Low Voltage R/R Op Amp	SOT-23-5	.48	.37	.28
LMV321IDBVR	296-9567-2-ND	Low Voltage R/R Op Amp	SOT-23-5	471.00/3,000		
LMV321IDBVRQ1	296-20922-1-ND	Low Voltage R/R Op Amp	SOT-23-5	.80	.60	.45
LMV321IDBVRQ1	296-20922-2-ND	Low Voltage R/R Op Amp	SOT-23-5	780.00/3,000		
LMV321IDCKR	296-9568-1-ND	Low Voltage R/R Op Amp	SC70-5	.48	.37	.28
LMV321IDCKR	296-9568-2-ND	Low Voltage R/R Op Amp	SC70-5	471.00/3,000		
LMV321QDBVRQ1	296-20923-1-ND	Low Voltage R/R Op Amp	SOT-23-5	.84	.63	.48
LMV321QDBVRQ1	296-20923-2-ND	Low Voltage R/R Op Amp	SOT-23-5	819.00/3,000		
LMV324ID	296-9569-5-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.48	.37	.28
LMV324IDR	296-9569-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.48	.37	.28
LMV324IDR	296-9569-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	392.50/2,500		
LMV324IDRQ1	296-18458-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.97	.73	.55
LMV324IDRQ1	296-18458-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	787.50/2,500		
LMV324IPWR	296-9570-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	.48	.37	.28
LMV324IPWR	296-9570-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	322.00/2,000		
LMV324QDR	296-17467-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.96	.72	.54
LMV324QDR	296-17467-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	780.00/2,500		
LMV324QDRQ1	296-19470-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.97	.73	.55
LMV324QDRQ1	296-19470-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	787.50/2,500		
LMV324QPWR	296-17468-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	.96	.72	.54
LMV324QPWR	296-17468-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	638.00/2,000		
LMV324QPWRQ1	296-19542-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	.97	.73	.55
LMV324QPWRQ1	296-19542-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	644.00/2,000		
LMV324SIDR	296-15361-1-ND	Quad Low Voltage R/R Op Amp	16-SOIC	.96	.72	.54
LMV324SIDR	296-15361-2-ND	Quad Low Voltage R/R Op Amp	16-SOIC	780.00/2,500		
LMV324SIPWR	296-15362-1-ND	Quad Low Voltage R/R Op Amp	16-TSSOP	.96	.72	.54
LMV324SIPWR	296-15362-2-ND	Quad Low Voltage R/R Op Amp	16-TSSOP	638.00/2,000		
LMV341IDBVR	296-17843-1-ND	Single R/R Out CMOS Op Amp	SOT-23-6	.80	.60	.45
LMV341IDBVR	296-17843-2-ND	Single R/R Out CMOS Op Amp	SOT-23-6	780.00/3,000		
LMV341IDCKR	296-17359-1-ND	Single R/R Out CMOS Op Amp	SC70-6	.80	.60	.45
LMV341IDCKR	296-17359-2-ND	Single R/R Out CMOS Op Amp	SC70-6	780.00/3,000		
LMV342IDGKR	296-22012-1-ND	Dual R/R Out CMOS Op Amp ***NEW!***	8-MSOP	.75	.63	.50
LMV342IDGKR	296-22012-2-ND	Dual R/R Out CMOS Op Amp ***NEW!***	8-MSOP	812.50/2,500		
LMV342IDR	296-20924-1-ND	Dual R/R Out CMOS Op Amp	8-SOIC	.88	.66	.50
LMV342IDR	296-20924-2-ND	Dual R/R Out CMOS Op Amp	8-SOIC	715.00/2,500		
LMV344IDR	296-20925-1-ND	Quad R/R Out CMOS Op Amp	14-SOIC	.75	.63	.50
LMV344IDR	296-20925-2-ND	Quad R/R Out CMOS Op Amp	14-SOIC	812.50/2,500		
LMV344IPWR	296-18596-1-ND	Quad R/R Out CMOS Op Amp	14-TSSOP	.75	.63	.50
LMV344IPWR	296-18596-2-ND	Quad R/R Out CMOS Op Amp	14-TSSOP	666.00/2,000		
LMV358IDDUR	296-16705-1-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	.80	.60	.45
LMV358IDDUR	296-16705-2-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	780.00/3,000		
LMV358IDGKR	296-13455-1-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	.88	.66	.50
LMV358IDGKR	296-13455-2-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	715.00/2,500		
LMV358IDR	296-9571-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.64	.48	.36
LMV358IDR	296-9571-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	520.00/2,500		
LMV358IDRQ1	296-17648-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.88	.66	.50
LMV358IDRQ1	296-17648-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	715.00/2,500		
LMV358IPWR	296-9572-1-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	.88	.66	.50
LMV358IPWR	296-9572-2-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	586.00/2,000		
LMV358QDDUR	296-17469-1-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	.78	.65	.52
LMV358QDDUR	296-17469-2-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	1014.00/3,000		
LMV358QDGKR	296-17470-1-ND	Dual Low Voltage R/R Op Amp	8-MSOP	.78	.65	.52
LMV358QDGKR	296-17470-2-ND	Dual Low Voltage R/R Op Amp	8-MSOP	845.00/2,500		
LMV358QDR	296-17471-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.96	.72	.54
LMV358QDR	296-17471-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	780.00/2,500		
LMV358QPWR	296-17472-1-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	.96	.72	.54
LMV358QPWR	296-17472-2-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	638.00/2,000		
LMV358QPWRQ1	296-22619-1-ND	Dual Low Volt. R/R Op Amp ***NEW!***	8-TSSOP	.92	.69	.52
LMV358QPWRQ1	296-22619-2-ND	Dual Low Volt. R/R Op Amp ***NEW!***	8-TSSOP	612.00/2,000		
LMV710IDBVR	296-17853-1-ND	Low Power R/R I/O Op Amp	SOT-23-5	.93	.78	.62
LMV710IDBVR	296-17853-2-ND	Low Power R/R I/O Op Amp	SOT-23-5	1209.00/3,000		
LMV710IDCKR	296-17854-1-ND	Low Power R/R I/O Op Amp	SC70-5	.93	.78	.62
LMV710IDCKR	296-17854-2-ND	Low Power R/R I/O Op Amp	SC70-5	1209.00/3,000		
LMV711IDBVR	296-18000-1-ND	Single, Low Power, R/R I/O Op Amp	SOT-23-5	.93	.78	.62
LMV711IDBVR	296-18000-2-ND	Single, Low Power, R/R I/O Op Amp	SOT-23-5	1209.00/3,000		
LMV711IDCKR	296-18001-1-ND	Single, Low Power, R/R I/O Op Amp	SC70-6	.93	.78	.62
LMV711IDCKR	296-18001-2-ND	Single, Low Power, R/R I/O Op Amp	SC70-6	1209.00/3,000		
LMV712IDGSR	296-20926-1-ND	Low Power, Low Noise, High Output, R/R In/Out Dual Op Amp	10-MSOP	1.29	1.08	.86
LMV712IDGSR	296-20926-2-ND	Low Power, Low Noise, High Output, R/R In/Out Dual Op Amp	10-MSOP	1397.50/2,500		
LMV715IDBVR	296-20927-1-ND	Single Low Power, R/R In/Out Op Amp	SOT-23-6	1.02	.85	.68
LMV715IDBVR	296-20927-2-ND	Single Low Power, R/R In/Out Op Amp	SOT-23-6	1326.00/3,000		
LMV715IDCKR	296-20928-1-ND	Single Low Power, R/R In/Out Op Amp	SC70-6	1.02	.85	.68
LMV715IDCKR	296-20928-2-ND	Single Low Power, R/R In/Out Op Amp	SC70-6	1326.00/3,000		
LMV821DBVR	296-18459-1-ND	Single, Low Voltage, R/R Op Amp	SOT-23-5	.96	.72	.54
LMV821DBVR	296-18459-2-ND	Single, Low Voltage, R/R Op Amp	SOT-23-5	936.00/3,000		
LMV821DCKR	296-18460-1-ND	Single, Low Voltage, R/R Op Amp	SC70-5	.96	.72	.54
LMV821DCKR	296-18460-2-ND	Single, Low Voltage, R/R Op Amp	SC70-5	936.00/3,000		
LMV821IDBVR	296-18461-1-ND	Single, Low Voltage, R/R Op Amp	SOT-23-5	.90	.75	.60
LMV821IDBVR	296-18461-2-ND	Single, Low Voltage, R/R Op Amp	SOT-23-5	1170.00/3,000		
LMV821IDCKR	296-18462-1-ND	Single, Low Voltage, R/R Op Amp	SC70-5	.90	.75	.60
LMV821IDCKR	296-18462-2-ND	Single, Low Voltage, R/R Op Amp	SC70-5	1170.00/3,000		
LMV822DGKR	296-17406-1-ND	Dual Low Voltage R/R Op Amp	8-MSOP	.78	.65	.52

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
LMV822DGKR	296-17406-2-ND	Dual Low Voltage R/R Op Amp	8-MSOP	845.00/2,500		
LMV822DR	296-18463-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.78	.65	.52
LMV822DR	296-18463-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	845.00/2,500		
LMV822IDGKR	296-17407-1-ND	Dual Low Voltage R/R Op Amp	8-MSOP	.96	.80	.64
LMV822IDGKR	296-17407-2-ND	Dual Low Voltage R/R Op Amp	8-MSOP	1040.00/2,500		
LMV822IDR	296-18464-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.96	.80	.64
LMV822IDR	296-18464-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	1040.00/2,500		
LMV824DGVR	296-17522-1-ND	Quad Low Voltage R/R Op Amp	14-TVSOP	1.02	.85	.68
LMV824DGVR	296-17522-2-ND	Quad Low Voltage R/R Op Amp	14-TVSOP	904.00/2,000		
LMV824DR	296-18465-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.96	.80	.64
LMV824DR	296-18465-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	1040.00/2,500		
LMV824IDGVR	296-17523-1-ND	Quad Low Voltage R/R Op Amp	14-TVSOP	1.29	1.08	.86
LMV824IDGVR	296-17523-2-ND	Quad Low Voltage R/R Op Amp	14-TVSOP	1144.00/2,000		
LMV824IDR	296-18466-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	1.23	1.03	.82
LMV824IDR	296-18466-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	1332.50/2,500		
LMV824IPWR	296-18467-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	1.23	1.03	.82
LMV824IPWR	296-18467-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	1090.00/2,000		
LMV824PWR	296-18468-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	.96	.80	.64
LMV824PWR	296-18468-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	852.00/2,000		
LMV931IDBVR	296-18469-1-ND	1.8V R/R In/Out Op Amp	SOT-23-5	.78	.65	.52
LMV931IDBVR	296-18469-2-ND	1.8V R/R In/Out Op Amp	SOT-23-5	1014.00/3,000		
LMV931IDCKR	296-17996-1-ND	1.8V R/R In/Out Op Amp	SC70-5	.78	.65	.52
LMV931IDCKR	296-17996-2-ND	1.8V R/R In/Out Op Amp	SC70-5	1014.00/3,000		
LMV931QDBVRQ1	296-19312-1-ND	1.8V R/R In/Out Op Amp	SOT-23-5	1.02	.85	.68
LMV931QDBVRQ1	296-19312-2-ND	1.8V R/R In/Out Op Amp	SOT-23-5	1326.00/3,000		
LMV932IDGKR	296-17910-1-ND	1.8V Dual Op Amp	8-MSOP	.96	.80	.64
LMV932IDGKR	296-17910-2-ND	1.8V Dual Op Amp	8-MSOP	1040.00/2,500		
LMV932IDR	296-17911-1-ND	1.8V Dual Op Amp	8-SOIC	.84	.70	.56
LMV932IDR	296-17911-2-ND	1.8V Dual Op Amp	8-SOIC	910.00/2,500		
LMV934IDR	296-20929-1-ND	1.8V Quad Op Amp	14-SOIC	1.20	1.00	.80
LMV934IDR	296-20929-2-ND	1.8V Quad Op Amp	14-SOIC	1300.00/2,500		
LMV934IPWR	296-20930-1-ND	1.8V Quad Op Amp	14-TSSOP	1.20	1.00	.80
LMV934IPWR	296-20930-2-ND	1.8V Quad Op Amp	14-TSSOP	1064.00/2,000		
LMV981IDBVR	296-18470-1-ND	1.8V R/R In/Out Op Amp with Shutdown	SOT-23-6	.96	.80	.64
LMV981IDBVR	296-18470-2-ND	1.8V R/R In/Out Op Amp with Shutdown	SOT-23-6	1248.00/3,000		
LMV981IDCKR	296-18471-1-ND	1.8V R/R In/Out Op Amp with Shutdown	SC70-6	.96	.80	.64
LMV981IDCKR	296-18471-2-ND	1.8V R/R In/Out Op Amp with Shutdown	SC70-6	1248.00/3,000		
LMV981IRUGR	296-22035-1-ND	1.8V Op Amp with R/R I/O ***NEW!***	8-QFN	1.05	.88	.70
LMV981IRUGR	296-22035-2-ND	1.8V Op Amp with R/R I/O ***NEW!***	8-QFN	1365.00/3,000		
LMV982IDGSR	296-17949-1-ND	1.8V R/R In/Out Op Amp	10-MSOP	1.08	.90	.72
LMV982IDGSR	296-17949-2-ND	1.8V R/R In/Out Op Amp	10-MSOP	1170.00/2,500		
LOG100JP	LOG100JP-ND	Precision Logarithmic/Log Ratio Amp	14-Dip	141.92	132.46	123.00
LOG101AID	296-12850-5-ND	Precision Logarithmic/Log Ratio Amp	8-SOIC	11.58	—	—
LOG102AID	LOG102AID-ND	Precision Logarithmic/Log Ratio Amp	14-SOIC	12.08	—	—
LOG104AID	296-12851-5-ND	Precision Logarithmic/Log Ratio Amp	8-SOIC	11.58	—	—
LOG112AID	296-13456-5-ND	Precision Logarithmic and Log Ratio Amp with On Chip 2.5 Volt. Reference	14-SOIC	13.16	—	—
LOG114AIRGVT	296-21666-1-ND	Precision Logarithmic Amp	16-QFN	14.49	13.05	11.58
LOG114AIRGVT	296-21666-2-ND	Precision Logarithmic Amp	16-QFN	2773.25/250		
LOG2112AIDW	296-13815-5-ND	Precision Logarithmic Amp	16-SOIC	17.03	—	—
LP324DR	296-17953-1-ND	Ultra Low Power, Quad Op Amp	14-SOIC	.60	.45	.34
LP324DR	296-17953-2-ND	Ultra Low Power, Quad Op Amp	14-SOIC	487.50/2,500		
LP324N	296-17954-5-ND	Ultra Low Power, Quad Op Amp	14-Dip	.60	.45	.34
LP324PWR	296-17955-1-ND	Ultra Low Power, Quad Op Amp	14-TSSOP	.72	.54	.41
LP324PWR	296-17955-2-ND	Ultra Low Power, Quad Op Amp	14-TSSOP	478.00/2,000		
LP358DR	296-20934-1-ND	Ultra Low Power, Dual Op Amp	8-SOIC	.60	.45	.34
LP358DR	296-20934-2-ND	Ultra Low Power, Dual Op Amp	8-SOIC	487.50/2,500		
LP2902DR	296-17950-1-ND	Ultra Low Power, Quad Op Amp	14-SOIC	.92	.69	.52
LP2902DR	296-17950-2-ND	Ultra Low Power, Quad Op Amp	14-SOIC	747.50/2,500		
LP2902N	296-17951-5-ND	Ultra Low Power, Quad Op Amp	14-Dip	.92	.69	.52
LP2902PWR	296-17952-1-ND	Ultra Low Power, Quad Op Amp	14-TSSOP	.78	.65	.52
LP2902PWR	296-17952-2-ND	Ultra Low Power, Quad Op Amp	14-TSSOP	692.00/2,000		
LP2904DR	296-20932-1-ND	Ultra Low Power, Dual Op Amp	8-SOIC	1.14	.95	.76
LP2904DR	296-20932-2-ND	Ultra Low Power, Dual Op Amp	8-SOIC	1235.00/2,500		
LPV321DBVR	296-17715-1-ND	Low Volt., Low Power, R/R Op Amp	SOT-23-5	.92	.69	.52
LPV321DBVR	296-17715-2-ND	Low Volt., Low Power, R/R Op Amp	SOT-23-5	897.00/3,000		
LPV321DCKR	296-17716-1-ND	Low Volt., Low Power, R/R Op Amp	SC70-5	.92	.69	.52
LPV321DCKR	296-17716-2-ND	Low Volt., Low Power, R/R Op Amp	SC70-5	897.00/3,000		
LPV321IDBVR	296-17717-1-ND	Low Volt., Low Power, R/R Op Amp	SOT-23-5	.78	.65	.52
LPV321IDBVR	296-17717-2-ND	Low Volt., Low Power, R/R Op Amp	SOT-23-5	1014.00/3,000		
LPV321IDCKR	296-17718-1-ND	Low Volt., Low Power, R/R Op Amp	SC70-5	.78	.65	.52
LPV321IDCKR	296-17718-2-ND	Low Volt., Low Power, R/R Op Amp	SC70-5	1014.00/3,000		
LPV324DR	296-16815-1-ND	Quad, Low Voltage, R/R Op Amp	14-SOIC	.90	.75	.60
LPV324DR	296-16815-2-ND	Quad, Low Voltage, R/R Op Amp	14-SOIC	975.00/2,500		
LPV324IDR	296-16732-1-ND	Quad, Low Voltage, R/R Op Amp	14-SOIC	.88	.66	.50
LPV324IDR	296-16732-2-ND	Quad, Low Voltage, R/R Op Amp	14-SOIC	1105.00/2,500		
LPV324IPWR	296-16731-1-ND	Quad, Low Voltage, R/R Op Amp	14-TSSOP	1.02	.85	.68
LPV324IPWR	296-16731-2-ND	Quad, Low Voltage, R/R Op Amp	14-TSSOP	904.00/2,000		
LPV324PWR	296-16816-1-ND	Quad, Low Voltage, R/R Op Amp	14-TSSOP	.90	.75	.60
LPV324PWR	296-16816-2-ND	Quad, Low Voltage, R/R Op Amp	14-TSSOP	798.00/2,000		
LPV358DDUR	296-17719-1-ND	Dual, Low Voltage, Low Power, R/R Op Amp	8-VSSOP	.75	.63	.50
LPV358DDUR	296-17719-2-ND	Dual, Low Voltage, Low Power, R/R Op Amp	8-VSSOP	975.00/3,000		
LPV358DGKR	296-17761-1-ND	Dual, Low Voltage, Low Power R/R Op Amp	8-MSOP	.75	.63	.50
LPV358DGKR	296-17761-2-ND	Dual, Low Voltage, Low Power R/R Op Amp	8-MSOP	812.50/2,500		
LPV358DR	296-17720-1-ND	Dual, Low Voltage, Low Power, R/R Op Amp	8-SOIC	.75	.63	.50
LPV358DR	296-17720-2-ND	Dual, Low Voltage, Low Power, R/R Op Amp	8-SOIC	812.50/2,500		
LPV358IDDUR	296-17721-1-ND	Dual, Low Voltage, Low Power, R/R Op Amp	8-VSSOP	.84	.70	.56
LPV358IDDUR	296-17721-2-ND	Dual, Low Voltage, Low Power, R/R Op Amp	8-VSSOP	1092.00/3,000		
LPV358IDGKR	296-17762-1-ND	Dual, Low Voltage, Low Power R/R Op Amp	8-MSOP	.78	.65	.52
LPV358IDGKR	296-17762-2-ND	Dual, Low Voltage, Low Power R/R Op Amp	8-MSOP	845.00/2,500		
LPV358IDR	296-17722-1-ND	Dual, Low Voltage, Low Power, R/R Op Amp	8-SOIC	.78	.65	.52
LPV358IDR	296-17722-2-ND	Dual, Low Voltage, Low Power, R/R Op Amp	8-SOIC	845.00/2,500		
LT1013AMDREP	296-22178-1-ND	Dual Precision Op Amp ***NEW!***	8-SOIC	2.25	1.80	1.40
LT1013AMDREP	296-22178-2-ND	Dual Precision Op Amp ***NEW!***	8-SOIC	3150.00/2,500		
LT1013CD	296-23225-5-ND	Dual Precision Op Amp ***NEW!***	8-SOIC	1.40	1.12	.84
LT1013CP	296-1399-5-ND	Dual Precision Op Amp	8-Dip	1.09	.91	.73
LT1013DD	296-1400-5-ND	Dual Precision Op Amp	8-SOIC	.79	.60	.45
LT1013DDR	296-14615-1-ND	Dual Precision Op Amp	8-SOIC	.79	.60	.45
LT1013DDR	296-14615-2-ND	Dual Precision Op Amp	8-SOIC	642.50/2,500		
LT1013DIDR	296-12982-1-ND	Dual Precision Op Amp	8-SOIC	.79	.60	.45
LT1013DIDR	296-12982-2-ND	Dual Precision Op Amp	8-SOIC	642.50/2,500		
LT1013DIP	296-7044-5-ND	Dual Precision Op Amp	8-Dip	1.63	1.30	.98
LT1013DP	296-7045-5-ND	Dual Precision Op Amp	8-Dip	1.55	1.24	.93
LT1013MDREP	296-22179-1-ND	Dual Precision Op Amp ***NEW!***	8-SOIC	2.25	1.80	1.40
LT1013MDREP	296-22179-2-ND	Dual Precision Op Amp ***NEW!***	8-SOIC	3150.00/2,500		
LT1014CN	296-14616-5-ND	Quad Precision Op Amp	14-Dip	3.47	2.78	2.16
LT1014DIDW	296-7046-5-ND	Quad Precision Op Amp	16-SOIC	3.71	2.97	2.31
LT1014DIDWR	296-21994-1-ND	Quad Precision Op Amp	16-SOIC	4.95	3.96	3.08
LT1014DIDWR	296-21994-2-ND	Quad Precision Op Amp	16-SOIC	5610.00/2,000		
LT1014DIN	296-15322-5-ND	Quad Precision Op Amp	14-Dip	4.95	3.96	3.08
LT1014DN	296-7047-5-ND	Quad Precision Op Amp	14-Dip	4.28	3.42	2.66
LT1030CDR	296-14617-1-ND	Quad Low Power Line Driver	14-SOIC	2.00	1.60	1.20
LT1030CDR	296-14617-2-ND	Quad Low Power Line Driver	14-SOIC	2560.00/2,500		
MC1458D	296-9601-5-ND	Dual General Purpose Op Amp	8-SOIC	.55	.44	.33
MC1458DR	296-14622-1-ND	Dual General Purpose Op Amp	8-SOIC	.40	.33	.22
MC1458DR	296-14622-2-ND	Dual General Purpose Op Amp	8-SOIC	260.00/2,500		
MC1458P	296-1403-5-ND	Dual General Purpose Op Amp	8-Dip	.40	.33	.22
MC3303D	296-7033-5-ND	Quad LP Op Amp, -40°C to 85°C	14-SOIC	.76	.57	.43
MC3303N	296-7034-5-ND	Quad LP Op Amp, -40°C to 85°C	14-Dip	.76	.57	.43
MC3303PWR	296-11661-1-ND	Quad LP Op Amp, -40°C to 85°C	14-TSSOP	.76	.57	.43
MC3303PWR	296-11661-2-ND	Quad LP Op Amp, -40°C to 85°C	14-TSSOP	506.00/2,000		
MC3403D	296-7035-5-ND	Quad Low Power GP Op Amp	14-SOIC	.76	.57	.43
MC3403DR	296-14623-1-ND	Quad Low Power GP Op Amp	14-SOIC	.76	.57	.43
MC3403DR	296-14623-2-ND	Quad Low Power GP Op Amp	14-SOIC	617.50/2,500		
MC3403N	296-1406-5-ND	Quad Low Power GP Op Amp	14-Dip	.76	.57	.43
MC3403NSR	296-1407-1-ND	Quad Low Power GP Op Amp	14-SOP	.76	.57	.43
MC3403NSR	296-1407-2-ND	Quad Low Power GP Op Amp	14-SOP	506.00/2,000		
MC3403PWR	296-7036-1-ND	Quad Low Power GP Op Amp	14-TSSOP	.76	.57	.43
MC3403PWR	296-7036-2-ND	Quad Low Power GP Op Amp	14-TSSOP	506.00/2,000		
MC3487D	296-7039-5-ND	Quad Differential Line Driver	16-SOIC	.75	.63	.50
MC33078DGKR	296-17855-1-ND	Dual High Speed Low Noise Op Amp	8-MSOP	.78	.65	.52
MC33078DGKR	296-17855-2-ND	Dual High Speed Low Noise Op Amp	8-MSOP	845.00/2,500		
MC33078DR	296-17723-1-ND	Dual High Speed Low Noise Op Amp	8-SOIC	.80	.60	.45
MC33078DR	296-17723-2-ND	Dual High Speed Low Noise Op Amp	8-SOIC	650.00/2,500		
MC33078MDREP	296-22183-1-ND	Dual HS Low Noise Op Amp ***NEW!***	8-SOIC	1.93	1.54	1.16
MC33078MDREP	296-22183-2-ND	Dual HS Low Noise Op Amp ***NEW!***	8-SOIC	2465.00/2,500		
MC33078P	296-17724-5-ND	Dual High Speed Low Noise Op Amp	8-Dip	.96	.72	.54
MPA4609IPFBT	296-16678-1-ND	Quad, Diff. I/O 2x1 Multiplexed High Gain Preamp	48-TQFP	9.10	7.28	6.15
MPA4609IPFBT	296-16678-2-ND	Quad, Diff. I/O 2x1 Multiplexed High Gain Preamp	48-TQFP	1478.75/250		
NE5532ADR	296-13621-1-ND	Dual Low Noise Op Amp	8-SOIC	.48	.37	.28
NE5532ADR	296-13621-2-ND	Dual Low Noise Op Amp	8-SOIC	392.50/2,500		
NE5532AP	296-7040-5-ND	Dual Low Noise Op Amp	8-Dip	.79	.60	.45
NE5532APSR	296-13103-1-ND	Dual Low Noise Op Amp	8-SOP	.84	.70	.56
NE5532APSR	296-13103-2-ND	Dual Low Noise Op Amp	8-SOP	744.00/2,000		
NE5532DR	296-13622-1-ND	Dual Low Noise Op Amp	8-SOIC	.80	.60	.45
NE5532DR	296-13622-2-ND	Dual Low Noise Op Amp	8-SOIC	650.00/2,500		
NE5532P	296-1410-5-ND	Dual Low Noise Op Amp	8-Dip	.57	.43	.33
NE5532PSR	296-12641-1-ND	Dual Low Noise Op Amp	8-SOP	.80	.60	.45
NE5532PSR	296-12641-2-ND	Dual Low Noise Op Amp	8-SOP	532.00/2,000		
NE5534ADR	296-16943-1-ND	Low Noise HS Audio Op Amp	8-SOIC	1.14	.95	.76
NE5534ADR	296-16943-2-ND	Low Noise HS Audio Op Amp	8-SOIC	1235.00/2,500		
NE5534AP	296-7042-5-ND	Low Noise HS Audio Op Amp	8-Dip	1.14	.95	.76
NE5534D	296-14346-5-ND	Low Noise HS Audio Op Amp	8-SOIC	.96	.80	.64
NE5534P	296-7043-5-ND	Low Noise HS Audio Op Amp	8-Dip	.96	.80	.64
ONET1101LRGET	296-23314-1-ND	11.3Gbps Laser Driver ***NEW!***	24-VQFN	20.63	19.25	17.88
ONET1101LRGET	296-23314-2-ND	11.3Gbps Laser Driver ***NEW!***	24-VQFN	4382.75/250		
ONET1191PRGTT	296-20765-1-ND	11.3Gbps Limiting Amp	16-QFN	9.00	8.10	7.19
ONET1191PRGTT	296-20765-2-ND	11.3Gbps Limiting Amp	16-QFN	1721.25/250		
ONET1191VRGPT	296-20681-1-ND	11.3Gbps Differential VCSEL Driver	20-QFN	10.66	9.60	8.52
ONET1191VRGPT	296-20681-2-ND	11.3Gbps Differential VCSEL Driver	20-QFN	2040.00/250		
ONET2511TAY	296-17427-ND	2.5Gbps Transimpedance Amp, Bare-Die	—	6.50	5.20	4.39
ONET4201LDRGET	296-19278-1-ND	155Mbps to 4.25Gbps Laser Driver	24-VQFN	12.58	11.33	10.05
ONET4201LDRGET	296-19278-2-ND	155Mbps to 4.25Gbps Laser Driver	24-VQFN	2789.00/250		
ONET4201PARGTR	296-19279-1-ND	155Mbps to 4.25Gbps Limiting Amp	16-QFN	9.30	7.44	6.28
ONET4201PARGTR	296-19279-2-ND	155Mbps to 4.25Gbps Limiting Amp	16-QFN	25332.00/3,000		
ONET4211LDRGET	296-19280-1-ND	155Mbps to 4.25Gbps Laser Driver	24-QFN	12.58	11.33	10.05
ONET4211LDRGET	296-19280-2-ND	155Mbps to 4.25Gbps Laser Driver	24-QFN	2789.00/250		
ONET4251PARGTR	296-19411-1-ND	1Gbps to 4.25Gbps Limiting Amp	16-QFN	5.50	4.40	3.72
ONET4251PARGTR	296-19411-2-ND	1Gbps to 4.25Gbps Limiting Amp	16-QFN	18042.00/3,000		
ONET4291PARGVR	296-18691-1-ND	1Gbps to 4.25Gbps Multi-Rate VCSEL Driver	16-QFN	5.10	4.08	3.45
ONET4291PARGVR	296-18691-2-ND	1Gbps to 4.25Gbps Multi-Rate VCSEL Driver	16-QFN	9486.00/3,000		
ONET4291VARGPT	296-22715-1-ND	1Gbps to 4.25Gbps Multi-Rate VCSEL Driver ***NEW!***	20-QFN	2.25	1.80	1.40
ONET4291VARGPT	296-22715-2-ND	1Gbps to 4.25Gbps Multi-Rate VCSEL Driver ***NEW!***	20-QFN	332.50/250		
ONET8501PRGTR	296-23128-1-ND	11.3Gbps Rate Selectable Limiting Amp ***NEW!***	16-QFN	9.58	8.63	7.65
ONET8501PRGTR	296-23128-2-ND	11.3Gbps Rate Selectable Limiting Amp ***NEW!***	16-QFN	20958.00/3,000		
ONET8501VRGPT	296-21958-1-ND	11.3Gbps Diff. VCSEL Driver	20-QFN	11.91	10.73	9.51
ONET8501VRGPT	296-21958-2-ND	11.3Gbps Diff. VCSEL Driver	20-QFN	2279.00/250		
ONET9901PARGP	296-17055-5-ND	10.7Gbps Limiting Amp	20-QFN	11.88	10.70	9.49
OP-07DPSR	296-14171-1-ND	Low Noise Precision Op Amp	8-SOIC	.75	.63	.50
OP-07DPSR	296-14171-2-ND	Low Noise Precision Op Amp	8-SOIC	666.00/2,000		
OP07CD	296-12852-5-ND	Low Offset Voltage Precision Op Amp	8-SOIC	.83	.69	.55
OP07CDR	296-14626-1-ND	Low Offset Voltage Precision Op Amp	8-SOIC	.83	.69	.55
OP07CDR	296-14626-2-ND	Low Offset Voltage Precision Op Amp	8-SOIC	895.00/2,500		

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★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OP07CP	296-12853-5-ND	Low Offset Voltage Precision Op Amp	8-Dip	.83	.69	.55
OP07DD	296-9621-5-ND	Low Offset Voltage Precision Op Amp	8-SOIC	.90	.75	.60
OP07DDR	296-14627-1-ND	Low Offset Voltage Precision Op Amp	8-SOIC	.88	.66	.50
OP07DDR	296-14627-2-ND	Low Offset Voltage Precision Op Amp	8-SOIC	715.00/2,500		
OP07DP	296-9622-5-ND	Low Offset Voltage Precision Op Amp	8-Dip	.88	.66	.50
OPA27GP	OPA27GP-ND	Compensated, LN, Precision Op Amp	8-Dip	2.45	—	—
OPA27GU	OPA27GU-ND	Compensated, LN, Precision Op Amp	8-SOIC	2.45	—	—
OPA37GP	OPA37GP-ND	Uncompensated, LN, Precision Op Amp	8-Dip	2.57	—	—
OPA37GU	OPA37GU-ND	Uncompensated, LN, Prec. Op Amp	8-SOIC	2.57	—	—
OPA111AM	OPA111AM-ND	LN, Precision Op Amp (500µV Out)	TO-99	24.42	—	—
OPA111BM	OPA111BM-ND	LN, Precision Op Amp (250µV Out)	TO-99	39.72	—	—
OPA121KU	OPA121KU-ND	Low Cost, Precision DiFET Op Amp	8-SOIC	8.50	—	—
OPA124U	OPA124U-ND	Low Noise, Precision DiFET Op Amp	8-SOIC	7.90	—	—
OPA124UA	OPA124UA-ND	Low Noise, Precision DiFET Op Amp	8-SOIC	9.40	—	—
OPA128JM	OPA128JM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	50.12	—	—
OPA128KM	OPA128KM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	55.85	—	—
OPA128LM	OPA128LM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	61.34	—	—
OPA128SM	OPA128SM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	71.97	—	—
OPA129U	OPA129U-ND	Ultra-Low Bias Current DiFET Op Amp	8-SOIC	6.40	—	—
OPA129UB	OPA129UB-ND	Ultra-Low Bias Current DiFET Op Amp	8-SOIC	9.08	—	—
OPA130UA	OPA130UA-ND	Low Power, Precision, FET-In Op Amp	8-SOIC	3.15	—	—
OPA131U	OPA131U-ND	General Purpose FET-Input Op Amp	8-SOIC	4.73	—	—
OPA131UA	OPA131UA-ND	General Purpose FET-Input Op Amp	8-SOIC	2.59	—	—
OPA131UJ	OPA131UJ-ND	General Purpose FET-Input Op Amp	8-SOIC	1.88	—	—
OPA132U	OPA132U-ND	High Speed FET-Input Op Amp	8-SOIC	5.70	4.56	3.85
OPA132UA	OPA132UA-ND	High Speed FET-Input Op Amp	8-SOIC	3.26	2.61	2.03
OPA134PA	OPA134PA-ND	High Performance Audio Op Amp	8-Dip	2.10	1.68	1.26
OPA134UA	OPA134UA-ND	High Performance Audio Op Amp	8-SOIC	2.10	1.68	1.26
OPA137N/250	OPA137NCT-ND	Low Cost FET-Input Op Amp	SOT-23-5	2.25	—	—
OPA137N/250	OPA137NTR-ND	Low Cost FET-Input Op Amp	SOT-23-5	332.50/250		
OPA137NA/250	OPA137NACT-ND	Low Cost FET-Input Op Amp	SOT-23-5	1.63	—	—
OPA137NA/250	OPA137NATR-ND	Low Cost FET-Input Op Amp	SOT-23-5	227.50/250		
OPA137P	OPA137P-ND	Low Cost FET-Input Op Amp	8-Dip	2.38	—	—
OPA137PA	OPA137PA-ND	Low Cost FET-Input Op Amp	8-Dip	1.50	—	—
OPA137U	OPA137U-ND	Low Cost FET-Input Op Amp	8-SOIC	2.38	—	—
OPA137UA	OPA137UA-ND	Low Cost FET-Input Op Amp	8-SOIC	1.50	—	—
OPA177FP	OPA177FP-ND	Precision Op Amp	8-Dip	1.90	1.52	1.14
OPA177GP	OPA177GP-ND	Precision Op Amp	8-Dip	1.90	1.52	1.14
OPA177GS	OPA177GS-ND	Precision Op Amp	8-SOIC	1.90	1.52	1.14
OPA211AIDR	296-22634-1-ND	Low Power, Precision Op Amp ***NEW!***	8-SOIC	6.90	5.52	4.66
OPA211AIDR	296-22634-2-ND	Low Power, Precision Op Amp ***NEW!***	8-SOIC	10695.00/2,500		
OPA227P	OPA227P-ND	High Precision, Low Noise Op Amp	8-Dip	5.02	—	—
OPA227PA	OPA227PA-ND	High Precision, Low Noise Op Amp	8-Dip	2.36	—	—
OPA227U	OPA227U-ND	High Precision, Low Noise Op Amp	8-SOIC	5.02	—	—
OPA227UA	OPA227UA-ND	High Precision, Low Noise Op Amp	8-SOIC	2.36	—	—
OPA228P	OPA228P-ND	Low Noise Precision Op Amp	8-Dip	5.02	—	—
OPA228PA	OPA228PA-ND	Low Noise Precision Op Amp	8-Dip	2.36	—	—
OPA228U	OPA228U-ND	Low Noise Precision Op Amp	8-SOIC	5.02	—	—
OPA228UA	OPA228UA-ND	Low Noise Precision Op Amp	8-SOIC	2.36	—	—
OPA234E/250	OPA234ECT-ND	Low Power Single-Supply Op Amp	8-MSOP	3.53	—	—
OPA234E/250	OPA234ETR-ND	Low Power Single-Supply Op Amp	8-MSOP	522.00/250		
OPA234EA/250	OPA234EACT-ND	Low Power Single-Supply Op Amp	8-MSOP	2.45	—	—
OPA234EA/250	OPA234EATR-ND	Low Power Single-Supply Op Amp	8-MSOP	362.50/250		
OPA234U	OPA234U-ND	Low Power Single-Supply Op Amp	8-SOIC	3.22	—	—
OPA234UA	OPA234UA-ND	Low Power Single-Supply Op Amp	8-SOIC	2.25	—	—
OPA237NA/250	OPA237NACT-ND	Single-Supply Op Amp	SOT-23-5	1.50	1.20	.90
OPA237NA/250	OPA237NATR-ND	Single-Supply Op Amp	SOT-23-5	210.00/250		
OPA237UA	OPA237UA-ND	Single-Supply Op Amp	8-SOIC	1.38	1.10	.83
OPA241PA	OPA241PA-ND	Single-Supply, Micropower, Low Voltage Op Amp	8-Dip	2.59	—	—
OPA241UA	OPA241UA-ND	Single-Supply, Micropower, Low Voltage Op Amp	8-SOIC	2.59	—	—
OPA244NA/250	OPA244NACT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	1.43	—	—
OPA244NA/250	OPA244NATR-ND	Single-Supply, Micropower Op Amp	SOT-23-5	199.50/250		
OPA244PA	OPA244PA-ND	Single-Supply, Micropower Op Amp	8-Dip	1.30	—	—
OPA244UA	OPA244UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	1.30	—	—
OPA251PA	OPA251PA-ND	Single-Supply, Micropower Op Amp	8-Dip	2.59	—	—
OPA251UA	OPA251UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	2.59	—	—
OPA277P	OPA277P-ND	High Precision Op Amp	8-Dip	4.50	3.60	2.80
OPA277PA	OPA277PA-ND	High Precision Op Amp	8-Dip	2.03	1.62	1.22
OPA277U	OPA277U-ND	High Precision Op Amp	8-SOIC	4.50	3.60	2.80
OPA277UA	OPA277UA-ND	High Precision Op Amp	8-SOIC	2.03	1.62	1.22
OPA300AID	296-15087-5-ND	Low Noise, High Speed, 16-Bit CMOS Op Amp	8-SOIC	2.81	2.25	1.75
OPA300AIDBVT	296-18506-1-ND	Low Noise, High Speed, 16-Bit CMOS Op Amp	SOT-23-6	3.15	2.52	1.96
OPA300AIDBVT	296-18506-2-ND	Low Noise, High Speed, 16-Bit CMOS Op Amp	SOT-23-6	465.50/250		
OPA301AID	296-17236-5-ND	Low Noise, High Speed CMOS Op Amp	8-SOIC	2.81	2.25	1.75
OPA301AIDBVT	296-16905-1-ND	Low Noise, High Speed CMOS Op Amp	8-SOIC	3.15	2.52	1.96
OPA301AIDBVT	296-16905-2-ND	Low Noise, High Speed CMOS Op Amp	8-SOIC	465.50/250		
OPA333AID	296-19545-5-ND	1.8V Micropower CMOS Op Amp	8-SOIC	2.38	1.90	1.43
OPA333AIDBVT	296-19546-1-ND	1.8V Micropower CMOS Op Amp	SOT-23-5	2.36	1.89	1.47
OPA333AIDBVT	296-19546-2-ND	1.8V Micropower CMOS Op Amp	SOT-23-5	349.25/250		
OPA333AIDCKR	296-19547-1-ND	1.8V Micropower CMOS Op Amp	SC70-5	2.38	1.90	1.43
OPA333AIDCKR	296-19547-2-ND	1.8V Micropower CMOS Op Amp	SC70-5	3648.00/3,000		
OPA333AMDBVREP	296-22187-1-ND	1.8V Micropower CMOS Op Amp ***NEW!***	SOT-23-5	5.70	4.56	3.85
OPA333AMDBVREP	296-22187-2-ND	1.8V Micropower CMOS Op Amp ***NEW!***	SOT-23-5	10602.00/3,000		
OPA333AMDCKREP	296-22188-1-ND	1.8V Micropower CMOS Op Amp ***NEW!***	SC70-5	5.70	4.56	3.85
OPA333AMDCKREP	296-22188-2-ND	1.8V Micropower CMOS Op Amp ***NEW!***	SC70-5	10602.00/3,000		
OPA334AIDBVT	296-13466-1-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-6	2.48	1.98	1.54
OPA334AIDBVT	296-13466-2-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-6	365.75/250		
OPA335AID	296-13467-5-ND	Single-Supply CMOS Zero Drift Op Amp	8-SOIC	2.25	1.80	1.40
OPA335AIDBVT	296-13468-1-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-5	2.48	1.98	1.54
OPA335AIDBVT	296-13468-2-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-5	365.75/250		
OPA336MDBVREP	296-21234-1-ND	Single-Supply, Micropower Op Amp	SOT-23-5	5.45	4.36	3.39
OPA336MDBVREP	296-21234-2-ND	Single-Supply, Micropower Op Amp	SOT-23-5	9147.00/3,000		
OPA336N/250	OPA336NCT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	2.36	—	—
OPA336N/250	OPA336NTR-ND	Single-Supply, Micropower Op Amp	SOT-23-5	349.25/250		
OPA336NA/250	OPA336NACT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	1.75	—	—
OPA336NA/250	OPA336NATR-ND	Single-Supply, Micropower Op Amp	SOT-23-5	245.00/250		
OPA336QDBVREP	296-22189-1-ND	Single-Supply, Micropower Op Amp ***NEW!***	SOT-23-5	2.25	1.80	1.40
OPA336QDBVREP	296-22189-2-ND	Single-Supply, Micropower Op Amp ***NEW!***	SOT-23-5	3780.00/3,000		
OPA336U	OPA336U-ND	Single-Supply, Micropower Op Amp	8-SOIC	2.38	—	—
OPA336UA	OPA336UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	1.63	—	—
OPA337EA/250	OPA337EACT-ND	Single-Supply, CMOS Op Amp	8-MSOP	1.41	1.18	.94
OPA337EA/250	OPA337EATR-ND	Single-Supply, CMOS Op Amp	8-MSOP	176.25/250		
OPA337NA/250	OPA337NACT-ND	Single-Supply, CMOS Op Amp	SOT-23-5	1.41	1.18	.94
OPA337NA/250	OPA337NATR-ND	Single-Supply, CMOS Op Amp	SOT-23-5	176.25/250		
OPA337PA	OPA337PA-ND	Single-Supply, CMOS Op Amp	8-Dip	1.29	1.08	.86
OPA337UA/2K5	OPA337UACT-ND	Single-Supply, CMOS Op Amp	8-SOIC	1.29	1.08	.86
OPA337UA	OPA337UA-ND	Single-Supply, CMOS Op Amp	8-SOIC	1.29	1.08	.86
OPA337UA/2K5	OPA337UATR-ND	Single-Supply, CMOS Op Amp	8-SOIC	1397.50/2,500		
OPA338NA/250	OPA338NACT-ND	Decompensated Single-Supply CMOS Op Amp	SOT-23-5	1.41	1.18	.94
OPA338NA/250	OPA338NATR-ND	Decompensated Single-Supply CMOS Op Amp	SOT-23-5	176.25/250		
OPA338UA	OPA338UA-ND	Decompensated Single-Supply CMOS Op Amp	8-SOIC	1.29	1.08	.86
OPA340NA/250	OPA340NACT-ND	Single-Supply, R/R Op Amp	SOT-23-5	1.90	—	—
OPA340NA/250	OPA340NATR-ND	Single-Supply, R/R Op Amp	SOT-23-5	266.00/250		
OPA340PA	OPA340PA-ND	Single-Supply, R/R Op Amp	8-Dip	1.78	—	—
OPA340UA	OPA340UA-ND	Single-Supply, R/R Op Amp	8-SOIC	1.78	—	—
OPA341NA/3K	OPA341NA/3KCT-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	SOT-23-6	1.78	1.42	1.07
OPA341NA/3K	OPA341NA/3KTR-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	SOT-23-6	2727.00/3,000		
OPA341UA	OPA341UA-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	8-SOIC	1.78	1.42	1.07
OPA342NA/250	OPA342NACT-ND	Low Cost Micropower R/R Op Amp	SOT-23-5	1.68	1.34	1.01
OPA342NA/250	OPA342NATR-ND	Low Cost Micropower R/R Op Amp	SOT-23-5	234.50/250		
OPA342UA	OPA342UA-ND	Low Cost Micropower R/R Op Amp	8-SOIC	1.43	1.14	.86
OPA343NA/250	OPA343NACT-ND	Single Supply Op Amp	SOT-23-5	1.48	1.18	.89
OPA343NA/250	OPA343NATR-ND	Single Supply Op Amp	SOT-23-5	206.50/250		
OPA343UA	OPA343UA-ND	Single Supply Op Amp	8-SOIC	1.25	1.00	.75
OPA344NA/250	OPA344NACT-ND	Single Supply Op Amp	SOT-23-5	1.55	—	—
OPA344NA/250	OPA344NATR-ND	Single Supply Op Amp	SOT-23-5	217.00/250		
OPA344PA	OPA344PA-ND	Single Supply Op Amp	8-Dip	1.30	—	—
OPA344UA	OPA344UA-ND	Single Supply Op Amp	8-SOIC	1.30	—	—
OPA345NA/250	OPA345NACT-ND	Single Supply Op Amp	SOT-23-5	1.55	—	—
OPA345NA/250	OPA345NATR-ND	Single Supply Op Amp	SOT-23-5	217.00/250		
OPA345UA	OPA345UA-ND	Single Supply Op Amp	8-SOIC	1.30	—	—
OPA347NA/250	OPA347NACT-ND	Micropower R/R, I/O Op Amp	SOT-23-5	1.30	1.04	.78
OPA347NA/250	OPA347NATR-ND	Micropower R/R, I/O Op Amp	SOT-23-5	182.00/250		
OPA347PA	OPA347PA-ND	Micropower R/R, I/O Op Amp	8-Dip	1.38	1.15	.92
OPA347SA/3K	296-13469-1-ND	Micropower R/R, I/O Op Amp	SC-70	1.38	1.15	.92
OPA347SA/3K	296-13469-2-ND	Micropower R/R, I/O Op Amp	SC-70	1794.00/3,000		
OPA347UA	OPA347UA-ND	Micropower R/R, I/O Op Amp	8-SOIC	1.38	1.15	.92
OPA347UA/2K5	OPA347UATR-ND	Micropower R/R, I/O Op Amp	8-SOIC	1495.00/2,500		
OPA348AID	296-12275-5-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	8-SOIC	.72	.60	.48
OPA348AIDBVT	296-12276-1-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SOT-23-5	.81	.68	.54
OPA348AIDBVT	296-12276-2-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SOT-23-5	101.25/250		
OPA348AIDCKT	296-12728-1-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SC70-5	.81	.68	.54
OPA348AIDCKT	296-12728-2-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SC70-5	101.25/250		
OPA349NA/250	296-19955-1-ND	1µA, R/R I/O CMOS Op Amp	SOT-23-5	1.38	1.10	.83
OPA349NA/250	296-19955-2-ND	1µA, R/R I/O CMOS Op Amp	SOT-23-5	192.50/250		
OPA349SA/3K	296-14451-1-ND	1µA, Rail-to-Rail I/O CMOS Op Amp	SC70-5	1.25	1.00	.75
OPA349SA/3K	296-14451-2-ND	1µA, Rail-to-Rail I/O CMOS Op Amp	SC70-5	1920.00/3,000		
OPA349UA	296-19956-5-ND	1µA, R/R I/O CMOS Op Amp	8-SOIC	1.25	1.00	.75
OPA350EA/250	OPA350EACT-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-MSOP	2.43	—	—
OPA350EA/250	OPA350EATR-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-MSOP	339.50/250		
OPA350PA	OPA350PA-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-Dip	2.20	—	—
OPA350UA	OPA350UA-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-SOIC	2.20	—	—
OPA353NA/250	OPA353NACT-ND	HS, Single-Supply, R/R CMOS Op Amp	SOT-23-5	2.36	1.89	1.47
OPA353NA/250	OPA353NATR-ND	HS, Single-Supply, R/R CMOS Op Amp	SOT-23-5	349.25/250		
OPA353UA	OPA353UA-ND	HS, Single-Supply, R/R CMOS Op Amp (35MHz)	8-SOIC	2.38	1.90	1.43
OPA354AIDBVT	296-13033-1-ND	250MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	1.88	1.50	1.13
OPA354AIDBVT	296-13033-2-ND	250MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	262.50/250		
OPA354AIDDA	296-13785-5-ND	250MHz, R/R, In/Out, CMOS Op Amp	8-SOIC	1.75	1.40	1.05
OPA355NA/250	296-11641-1-ND	High Speed, Video Op Amp	SOT-23-6	2.00	1.60	1.20
OPA355NA/250	296-11641-2-ND	High Speed, Video Op Amp	SOT-23-6	280.00/250		
OPA355NA/3K	296-14628-1-ND	200MHz, Op Amp with Shutdown	SOT23-6	1.75	1.40	1.05
OPA355NA/3K	296-14628-2-ND	200MHz, Op Amp with Shutdown	SOT23-6	2688.00/3,000		
OPA355UA	296-11647-5-ND	High Speed, Video Op Amp	8-SOIC	1.75	1.40	1.05
OPA356AID	296-12407-5-ND	2.5V, Single CMOS Op Amp	8-SOIC	1.75	1.40	1.05
OPA357AIDBVT	296-13009-1-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	SOT-23-6	1.88	1.50	1.13
OPA357AIDBVT	296-13009-2-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	SOT-23-6	262.50/250		
OPA357AIDDA	296-13786-5-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	8-SOIC	1.75	1.40	1.05
OPA358AIDCKT	296-17414-1-ND	3V Single-Supply 80MHz, High Speed Op Amp	SC70-6	1.25	1.00	.75
OPA358AIDCKT	296-17414-2-ND	3V Single-Supply 80MHz, High Speed Op Amp	SC70-6	175.00/250		
OPA360AIDCKT	296-17129-1-ND	3V Video Amp	SC70-6	1.38	1.10	.83
OPA360AIDCKT	296-17129-2-ND	3V Video Amp	SC70-6	192.50/250		
OPA361AIDCKT	296-18695-1-ND	3V Video Amp	SC70-6	1.38	1.10	.83

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA361AIDCKT	296-18695-2-ND	3V Video Amp	SC70-6	192.50/250		
OPA361AIDCKTG4	296-18696-1-ND	3V Video Amp	SC70-6	1.38	1.10	.83
OPA361AIDCKTG4	296-18696-2-ND	3V Video Amp	SC70-6	192.50/250		
OPA363AID	296-13880-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	1.50	1.20	.90
OPA363AIDBVT	296-13881-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	1.63	1.30	.98
OPA363AIDBVT	296-13881-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	227.50/250		
OPA363ID	296-13882-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	2.13	1.70	1.28
OPA363IDBVR	296-16727-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	2.13	1.70	1.28
OPA363IDBVR	296-16727-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	3264.00/3,000		
OPA363IDBVT	296-13883-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	2.25	1.80	1.35
OPA363IDBVT	296-13883-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	315.00/250		
OPA364AID	296-13884-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	1.50	1.20	.90
OPA364AIDBVT	296-13885-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5	1.63	1.30	.98
OPA364AIDBVT	296-13885-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5	227.50/250		
OPA364ID	296-13886-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	2.13	1.70	1.28
OPA364IDBVT	296-13887-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5	2.25	1.80	1.35
OPA364IDBVT	296-13887-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5	315.00/250		
OPA365AID	296-21235-5-ND	2.2V, 50MHz, Low Noise R/R Op Amp	8-SOIC	2.38	1.90	1.43
OPA365AIDBVR	296-20645-1-ND	2.2V, 50MHz, Low Noise R/R Op Amp	SOT-23-5	2.38	1.90	1.43
OPA365AIDBVR	296-20645-2-ND	2.2V, 50MHz, Low Noise R/R Op Amp	SOT-23-5	3648.00/3,000		
OPA373AID	296-15762-5-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	8-SOIC	1.08	.90	.72
OPA373AIDBVT	296-15763-1-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-6	1.20	1.00	.80
OPA373AIDBVT	296-15763-2-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-6	150.00/250		
OPA374AID	296-15764-5-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	8-SOIC	1.08	.90	.72
OPA374AIDBVT	296-15765-1-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	1.20	1.00	.80
OPA374AIDBVT	296-15765-2-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	150.00/250		
OPA376AID	296-22190-5-ND	Precision, Low Noise, Low Quiescent Current, Op Amp ***NEW!***	8-SOIC	1.63	1.63	.98
OPA376AIDBVT	296-21982-1-ND	Precision, Low Noise, Low Quiescent Current, Op Amp	SOT-23-5	1.88	1.50	1.13
OPA376AIDBVT	296-21982-2-ND	Precision, Low Noise, Low Quiescent Current, Op Amp	SOT-23-5	262.50/250		
OPA376AIDCKT	296-22191-1-ND	Precision, Low Noise, Low Quiescent Current, Op Amp ***NEW!***	SC70-5	1.88	1.50	1.13
OPA376AIDCKT	296-22191-2-ND	Precision, Low Noise, Low Quiescent Current, Op Amp ***NEW!***	SC70-5	262.50/250		
OPA379AID	296-19414-5-ND	1.8V, 90kHz, R/R, In/Out, Op Amp	8-SOIC	1.88	1.50	1.13
OPA379AIDBVT	296-19874-1-ND	1.8V, 90kHz, R/R, In/Out, Op Amp	SOT-23-5	2.13	1.70	1.28
OPA379AIDBVT	296-19874-2-ND	1.8V, 90kHz, R/R, In/Out, Op Amp	SOT-23-5	297.50/250		
OPA379AIDCKT	296-19875-1-ND	1.8V, 90kHz, R/R, In/Out, Op Amp	SC70-5	2.13	1.70	1.28
OPA379AIDCKT	296-19875-2-ND	1.8V, 90kHz, R/R, In/Out, Op Amp	SC70-5	297.50/250		
OPA380AID	296-16859-5-ND	Precision, HS, Transimpedance Amp	8-SOIC	4.39	3.51	2.73
OPA380AIDGKT	296-16860-1-ND	Precision, HS, Transimpedance Amp	8-MSOP	4.84	3.87	3.01
OPA380AIDGKT	296-16860-2-ND	Precision, HS, Transimpedance Amp	8-MSOP	715.00/250		
OPA381AIDGKT	296-17362-1-ND	Precision, Low Power, 18MHz, Transimpedance Amp	8-MSOP	3.60	2.88	2.24
OPA381AIDGKT	296-17362-2-ND	Precision, Low Power, 18MHz, Transimpedance Amp	8-MSOP	532.00/250		
OPA381AIDRBT	296-17363-1-ND	Precision, Low Power, 18MHz, Transimpedance Amp	8-DFN	3.60	2.88	2.24
OPA381AIDRBT	296-17363-2-ND	Precision, Low Power, 18MHz, Transimpedance Amp	8-DFN	532.00/250		
OPA404KP	OPA404KP-ND	Quad High Spd., Prec. DiFET Op Amp	14-Dip	12.58	—	—
OPA404KU	OPA404KU-ND	Quad High Spd., Prec. DiFET Op Amp	16-SOIC	11.91	—	—
OPA445ADDA	296-20722-5-ND	High Voltage FET-Input Op Amp	8-SOIC	9.50	—	—
OPA445AP	OPA445AP-ND	High Voltage FET-Input Op Amp	8-Dip	9.50	—	—
OPA445AU	OPA445AU-ND	High Voltage FET-Input Op Amp	8-SOIC	9.50	—	—
OPA452FAKTWT	296-15965-1-ND	80V, 50mA Op Amp	7-DDPAK	5.10	—	—
OPA452FAKTWT	296-15965-2-ND	80V, 50mA Op Amp	7-DDPAK	172.13/50		
OPA452TA-1	OPA452TA-1-ND	80V, 50mA Op Amp	TO-220-7	5.10	—	—
OPA452TA	OPA452TA-ND	80V, 50mA Op Amp	TO-220-7	5.10	—	—
OPA453FAKTWT	296-15966-1-ND	80V, 50mA Op Amp	7-DDPAK	5.10	—	—
OPA453FAKTWT	296-15966-2-ND	80V, 50mA Op Amp	7-DDPAK	172.15/50		
OPA453TA-1	OPA453TA-1-ND	80V, 50mA Op Amp	TO-220-7	5.10	—	—
OPA453TA	OPA453TA-ND	80V, 50mA Op Amp	TO-220-7	5.10	—	—
OPA454AIDDA	296-22997-5-ND	High Voltage 100V, High Current 50mA, Op Amp ***NEW!***	8-SOIC	5.50	4.40	3.72
OPA501AM	OPA501AM-ND	High Voltage, High Current Op Amp	TO3-8	172.19	160.71	149.23
OPA512BM	OPA512BM-ND	Very-High Current, High Power Op Amp	TO3-8	154.08	143.81	133.54
OPA541AM	OPA541AM-ND	High Power Monolithic Op Amp	TO3-8	122.66	114.48	106.31
OPA541AP	OPA541AP-ND	High Power Monolithic Op Amp	TO-220-11	16.65	—	—
OPA544FKTTT	296-15905-1-ND	High Voltage, High Current Op Amp	5-DDPAK	11.45	—	—
OPA544FKTTT	296-15905-2-ND	High Voltage, High Current Op Amp	5-DDPAK	456.85/50		
OPA544T	OPA544T-ND	High Voltage, High Current Op Amp	TO-220-5	11.45	—	—
OPA547FKTWT	296-15967-1-ND	High Voltage, 60V, High Current (.5A) Op Amp	7-DDPAK	8.70	—	—
OPA547FKTWT	296-15967-2-ND	High Voltage, 60V, High Current (.5A) Op Amp	7-DDPAK	293.65/50		
OPA547T	OPA547T-ND	High Voltage, 60V, High Current (.5A) Op Amp	TO-220-7	8.70	—	—
OPA548FKTWT	296-15968-1-ND	High Voltage, 60V, High Current (3A) Op Amp	7-DDPAK	10.00	—	—
OPA548FKTWT	296-15968-2-ND	High Voltage, 60V, High Current (3A) Op Amp	7-DDPAK	399.00/50		
OPA548T	296-23089-5-ND	High Voltage, 60V, High Current (3A) Op Amp	TO-220-7	10.00	—	—
OPA549S	OPA549S-ND	High Volt., High Current Op Amp	11-PFM	18.00	—	—
OPA549T	OPA549T-ND	High Volt., High Current Op Amp	TO-220-11	18.00	—	—
OPA551FAKTWT	296-15969-1-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK	5.40	—	—
OPA551FAKTWT	296-15969-2-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK	168.00/50		
OPA551PA	OPA551PA-ND	High Current/Power 60V, 200mA Op Amp	8-Dip	3.94	—	—
OPA551UA	OPA551UA-ND	High Current/Power 60V, 200mA Op Amp	8-SOIC	3.94	—	—
OPA552FAKTWT	296-15970-1-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK	5.40	—	—
OPA552FAKTWT	296-15970-2-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK	168.00/50		
OPA552PA	OPA552PA-ND	High Current/Power 60V, 200mA Op Amp	8-Dip	3.94	—	—
OPA552UA	OPA552UA-ND	High Current/Power 60V, 200mA Op Amp	8-SOIC	3.94	—	—
OPA561PWP	OPA561PWP-ND	High Current, HS, Op Amp	20-HTSSOP	5.30	—	—
OPA567AIRHGT	296-18697-1-ND	R/R In/Out 2A Power Amp	12-QFN	4.61	3.69	2.87
OPA567AIRHGT	296-18697-2-ND	R/R In/Out 2A Power Amp	12-QFN	681.75/250		
OPA569AIDWP	296-14174-5-ND	Rail-to-Rail, 2A Power Amp	20-HSOP	6.20	4.96	4.19
OPA602AP	OPA602AP-ND	High-Speed, Precision DiFET Op Amp	8-Dip	7.60	—	—
OPA602AU	OPA602AU-ND	High-Speed, Precision DiFET Op Amp	8-SOIC	8.30	—	—
OPA602BP	OPA602BP-ND	High-Speed, Precision DiFET Op Amp	8-Dip	10.16	—	—
OPA604AP	OPA604AP-ND	FET-Input, Low Distortion Op Amp	8-Dip	2.36	—	—
OPA604AU	OPA604AU-ND	FET-Input, Low Distortion Op Amp	8-SOIC	2.36	—	—
OPA606KP	OPA606KP-ND	Wide Bandwidth DiFET Op Amp	8-Dip	6.70	—	—
OPA615ID	296-18291-5-ND	Wide Bandwidth, DC Restoration Circuit	14-SOIC	8.50	6.80	5.74
OPA615IDGST	296-21396-1-ND	Wide Bandwidth, DC Restoration Circuit	10-MSOP	7.50	6.00	5.07
OPA615IDGST	296-21396-2-ND	Wide Bandwidth, DC Restoration Circuit	10-MSOP	1218.75/250		
OPA627AP	OPA627AP-ND	Precision High-Speed DiFET Op Amp	8-Dip	18.38	—	—
OPA627AU	OPA627AU-ND	Precision High-Speed DiFET Op Amp	8-SOIC	18.38	—	—
OPA627BM	296-22025-5-ND	Precision High-Speed DiFET Op Amp	TO-99-8	36.78	34.33	31.88
OPA627BP	OPA627BP-ND	Precision High-Speed DiFET Op Amp	8-Dip	26.63	—	—
OPA627AM	OPA627AM-ND	Precision High-Speed DiFET Op Amp	TO-99-8	34.88	—	—
OPA633KP	OPA633KP-ND	High-Speed Buffer Amp	8-Dip	9.08	—	—
OPA635N/250	OPA635NCT-ND	Wideband, R/R Op Amp w/Disable	SOT-23-6	3.11	2.49	1.94
OPA637AP	OPA637AP-ND	Precision High-Speed DiFET Op Amp	8-Dip	18.38	—	—
OPA637AU	OPA637AU-ND	Precision High-Speed DiFET Op Amp	8-SOIC	18.38	—	—
OPA637BP	OPA637BP-ND	Precision High-Speed DiFET Op Amp	8-Dip	26.63	—	—
OPA643N/250	OPA643NCT-ND	Wideband, Low Distortion, High Gain Op Amp	SOT-23-5	9.06	8.16	7.24
OPA656MDREP	296-22193-1-ND	Wideband, Voltage-Feedback, FET-Input, Op Amp ***NEW!***	8-SOIC	2.25	1.80	1.40
OPA656MDREP	296-22193-2-ND	Wideband, Voltage-Feedback, FET-Input, Op Amp ***NEW!***	8-SOIC	3150.00/2,500		
OPA656N/250	OPA656N/250CT-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	7.80	6.24	5.27
OPA656N/250	OPA656N/250TR-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	1267.50/250		
OPA656NB/250	OPA656NB/250CT-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	8.58	7.73	6.85
OPA656NB/250	OPA656NB/250TR-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	1641.50/250		
OPA656U	OPA656U-ND	Wideband Voltage-Feedback FET-Input Op Amp	8-SOIC	6.70	5.36	4.53
OPA656UB	OPA656UB-ND	Wideband Voltage-Feedback FET-Input Op Amp	8-SOIC	9.00	7.20	6.08
OPA657N/250	OPA657N/250CT-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	7.90	6.32	5.34
OPA657N/250	OPA657N/250TR-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	1283.75/250		
OPA657NB/250	OPA657NB/250CT-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	9.33	8.40	7.45
OPA657NB/250	OPA657NB/250TR-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	1785.00/250		
OPA657U	OPA657U-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	8-SOIC	7.60	6.08	5.13
OPA657UB	OPA657UB-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	8-SOIC	9.90	7.92	6.69
OPA683ID	296-12854-5-ND	Very Low-Power, Current-Feedback Op Amp	8-SOIC	2.57	2.06	1.60
OPA683IDBVT	296-12855-1-ND	Very Low-Power, Current-Feedback Op Amp	SOT-23-6	2.88	2.31	1.80
OPA683IDBVT	296-12855-2-ND	Very Low-Power, Current-Feedback Op Amp	SOT-23-6	425.50/250		
OPA684ID	OPA684ID-ND	Low Power, Current-Feedback Op Amp	8-SOIC	2.88	2.31	1.80
OPA684IDBVT	OPA684IDBVTCT-ND	Low Power, Current-Feedback Op Amp with Disable	SOT-23-6	3.22	2.58	2.01
OPA684IDBVT	OPA684IDBVTTR-ND	Low Power, Current-Feedback Op Amp with Disable	SOT-23-6	475.50/250		
OPA690ID	OPA690ID-ND	Wideband Voltage-Feedback Op Amp with Disable	8-SOIC	2.88	2.31	1.80
OPA690IDBVT	OPA690IDBVTCT-ND	Wideband Voltage-Feedback Op Amp with Disable	SOT-23-6	3.22	2.58	2.01
OPA690IDBVT	OPA690IDBVTTR-ND	Wideband Voltage-Feedback Op Amp with Disable	SOT-23-6	475.50/250		
OPA691ID	OPA691ID-ND	Wideband Current-Feedback Op Amp with Disable	8-SOIC	3.11	2.49	1.94
OPA691IDBVT	OPA691IDBVTCT-ND	Wideband Current-Feedback Op Amp with Disable	SOT-23-6	3.42	2.74	2.13
OPA691IDBVT	OPA691IDBVTTR-ND	Wideband Current-Feedback Op Amp with Disable	SOT-23-6	505.50/250		
OPA692ID	OPA692ID-ND	Wideband Video Buffer Amp with Disable	8-SOIC	2.45	1.97	1.53
OPA692IDBVT	296-15364-1-ND	Wideband Video Buffer Amp with Disable	SOT-23-6	2.79	2.24	1.74
OPA692IDBVT	296-15364-2-ND	Wideband Video Buffer Amp with Disable	SOT-23-6	412.25/250		
OPA693ID	296-16638-5-ND	Ultra-Wideband, Fixed Gain Video Buffer Amp	8-SOIC	2.79	2.24	1.74
OPA693IDBVT	296-16639-1-ND	Ultra-Wideband, Fixed Gain Video Buffer Amp	SOT-23-6	3.11	2.49	1.94
OPA693IDBVT	296-16639-2-ND	Ultra-Wideband, Fixed Gain Video Buffer Amp	SOT-23-6	458.75/250		
OPA694ID	296-17507-5-ND	Wideband, Low Power, Current Feedback Op Amp	8-SOIC	2.68	2.15	1.67
OPA694IDBVT	296-17503-1-ND	Wideband, Low Power, Current Feedback Op Amp	SOT-23-5	2.99	2.40	1.87
OPA694IDBVT	296-17503-2-ND	Wideband, Low Power, Current Feedback Op Amp	SOT-23-5	442.25/250		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA695ID	296-16756-5-ND	Ultra-Wideband, Current-Feedback Op Amp	8-SOIC	2.88	2.31	1.80
OPA695IDBVT	296-16854-1-ND	Ultra-Wideband, Current-Feedback Op Amp	SOT-23-6	3.22	2.58	2.01
OPA695IDBVT	296-16854-2-ND	Ultra-Wideband, Current-Feedback Op Amp	SOT-23-6	475.50/250		
OPA698ID	296-15860-5-ND	Wideband, Unity-Gain Stable Voltage Limiting Amp	8-SOIC	4.28	3.42	2.66
OPA699ID	296-15876-5-ND	Wideband, High-Gain Voltage Limiting Amp	8-SOIC	4.39	3.51	2.73
OPA703NA/250	296-9624-1-ND	CMOS R/R I/O Op Amp	SOT-23-5	3.15	—	—
OPA703NA/250	296-9624-2-ND	CMOS R/R I/O Op Amp	SOT-23-5	465.50/250		
OPA703PA	OPA703PA-ND	1MHz, CMOS R/R I/O Op Amp	8-Dip	2.93	—	—
OPA703UA	OPA703UA-ND	1MHz, CMOS R/R I/O Op Amp	8-SOIC	2.93	—	—
OPA704NA/3K	OPA704NA/3KCT-ND	3MHz, CMOS R/R I/O Op Amp	5-SOP	2.93	—	—
OPA704NA/3K	OPA704NA/3KTR-ND	3MHz, CMOS R/R I/O Op Amp	5-SOP	4914.00/3,000		
OPA704PA	OPA704PA-ND	3MHz, CMOS R/R I/O Op Amp	8-Dip	2.93	—	—
OPA704UA	OPA704UA-ND	3MHz, CMOS R/R I/O Op Amp	8-SOIC	2.93	—	—
OPA705NA/3K	OPA705NA/3KCT-ND	1MHz, CMOS R/R In/Out Op Amp	SOT-23-5	1.50	1.20	.90
OPA705NA/3K	OPA705NA/3KTR-ND	1MHz, CMOS R/R In/Out Op Amp	SOT-23-5	2304.00/3,000		
OPA705PA	OPA705PA-ND	1MHz, CMOS R/R In/Out Op Amp	8-Dip	1.50	—	—
OPA705UA	OPA705UA-ND	1MHz, CMOS R/R In/Out Op Amp	8-SOIC	1.50	—	—
OPA725AID	296-15766-5-ND	20MHz, 12V, Low-Noise, High Speed, CMOS Op Amp	8-SOIC	2.25	1.80	1.35
OPA725AIDBVT	296-15767-1-ND	20MHz, 12V, Low-Noise, High Speed, CMOS Op Amp	SOT-23-5	2.25	1.80	1.40
OPA725AIDBVT	296-15767-2-ND	20MHz, 12V, Low-Noise, High Speed, CMOS Op Amp	SOT-23-5	332.50/250		
OPA726AIDGKT	296-15861-1-ND	12V, CMOS Op Amp	8-MSOP	2.25	1.80	1.40
OPA726AIDGKT	296-15861-2-ND	12V, CMOS Op Amp	8-MSOP	332.50/250		
OPA727AIDGKT	296-17415-1-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-MSOP	2.36	1.89	1.47
OPA727AIDGKT	296-17415-2-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-MSOP	349.25/250		
OPA727AIDRBT	296-17416-1-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-DFN	2.36	1.89	1.47
OPA727AIDRBT	296-17416-2-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-DFN	349.25/250		
OPA728AIDGKT	296-17657-1-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-MSOP	2.36	1.89	1.47
OPA728AIDGKT	296-17657-2-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-MSOP	349.25/250		
OPA728AIDRBT	296-17417-1-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-DFN	2.36	1.89	1.47
OPA728AIDRBT	296-17417-2-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-DFN	349.25/250		
OPA734AID	296-18507-5-ND	Single Supply, Zero-Drift, CMOS Op Amp	8-SOIC	2.81	2.25	1.75
OPA734AIDBVT	296-18508-1-ND	Single Supply, Zero-Drift, CMOS Op Amp	SOT-23-6	3.15	2.52	1.96
OPA734AIDBVT	296-18508-2-ND	Single Supply, Zero-Drift, CMOS Op Amp	SOT-23-6	465.50/250		
OPA735AID	296-17995-ND	Single-Supply, Zero-Drift, CMOS Op Amp	8-SOIC	2.81	2.25	1.75
OPA735AIDBVT	296-17229-1-ND	Single-Supply, Zero-Drift, CMOS Op Amp	SOT-23-5	3.15	2.52	1.96
OPA735AIDBVT	296-17229-2-ND	Single-Supply, Zero-Drift, CMOS Op Amp	SOT-23-5	465.50/250		
OPA743NA/3K	OPA743NA/3KCT-ND	7MHz, CMOS R/R I/O Op Amp	5-SOP	2.38	1.90	1.43
OPA743NA/3K	OPA743NA/3KTR-ND	7MHz, CMOS R/R I/O Op Amp	5-SOP	3648.00/3,000		
OPA743PA	OPA743PA-ND	7MHz, CMOS R/R I/O Op Amp	8-Dip	2.38	1.90	1.43
OPA743UA	OPA743UA-ND	7MHz, CMOS R/R I/O Op Amp	8-SOIC	2.38	1.90	1.43
OPA820ID	296-17130-5-ND	Unity-Gain, Low-Noise, Volt.-Feedback Op Amp	8-SOIC	2.25	1.80	1.35
OPA820IDBVT	296-17131-1-ND	Unity-Gain, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5	2.25	1.80	1.40
OPA820IDBVT	296-17131-2-ND	Unity-Gain, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5	332.50/250		
OPA830ID	296-17400-5-ND	Low Power, Single-Supply, Wideband Voltage-Feedback Amp	8-SOIC	1.44	1.20	.96
OPA830IDBVT	296-17401-1-ND	Low Power, Single-Supply, Wideband Voltage-Feedback Amp	SOT-23-5	1.30	1.04	.78
OPA830IDBVT	296-17401-2-ND	Low Power, Single-Supply, Wideband Voltage-Feedback Amp	SOT-23-5	182.00/250		
OPA832ID	296-17325-5-ND	Fixed-Gain Video Buffer Amp	8-SOIC	1.08	.86	.65
OPA832IDBVT	296-17326-1-ND	Fixed-Gain Video Buffer Amp	SOT-23-5	1.41	1.18	.94
OPA832IDBVT	296-17326-2-ND	Fixed-Gain Video Buffer Amp	SOT-23-5	176.25/250		
OPA842ID	296-14175-5-ND	Wideband, Low Distribution Voltage Feedback Op Amp	8-SOIC	3.49	2.79	2.17
OPA842IDBVT	296-14176-1-ND	Wideband, Low Distribution Voltage Feedback Op Amp	SOT-23-5	3.83	3.06	2.38
OPA842IDBVT	296-14176-2-ND	Wideband, Low Distribution Voltage Feedback Op Amp	SOT-23-5	565.25/250		
OPA843ID	296-14177-5-ND	Wideband, Low Distribution Voltage Feedback Op Amp	8-SOIC	3.60	2.88	2.24
OPA843IDBVT	296-14178-1-ND	Wideband, Low Distribution Voltage Feedback Op Amp	SOT-23-5	3.94	3.15	2.45
OPA843IDBVT	296-14178-2-ND	Wideband, Low Distribution Voltage Feedback Op Amp	SOT-23-5	582.00/250		
OPA846ID	296-14775-5-ND	Wideband, Low-Noise, Volt.-Feedback Op Amp	8-SOIC	3.83	3.06	2.38
OPA846IDBVT	296-14776-1-ND	Wideband, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5	4.16	3.33	2.59
OPA846IDBVT	296-14776-2-ND	Wideband, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5	615.25/250		
OPA847ID	296-15171-5-ND	Wideband, Ultra-Low Noise, Volt.-Feedback Op Amp	8-SOIC	4.50	3.60	2.80
OPA847IDBVT	296-15172-1-ND	Wideband, Ultra-Low Noise, Volt.-Feedback Op Amp	SOT-23-6	4.95	3.96	3.08
OPA847IDBVT	296-15172-2-ND	Wideband, Ultra-Low Noise, Volt.-Feedback Op Amp	SOT-23-6	731.50/250		
OPA860ID	296-18202-ND	Wide Bandwidth Op Transconductance Amp/Buffer	8-SOIC	5.06	4.05	3.15
OPA861ID	296-18699-5-ND	Op Transconductance Amp	8-SOIC	2.38	1.90	1.43
OPA861IDBVT	296-18700-1-ND	Op Transconductance Amp	SOT-23-6	2.36	1.89	1.47
OPA861IDBVT	296-18700-2-ND	Op Transconductance Amp	SOT-23-6	349.25/250		
OPA875ID	296-21397-5-ND	2:1 High Speed Video Mux	8-SOIC	3.26	2.61	2.03
OPA875IDGKT	296-21398-1-ND	2:1 High Speed Video Mux	8-MSOP	3.60	2.88	2.24
OPA875IDGKT	296-21398-2-ND	2:1 High Speed Video Mux	8-MSOP	532.00/250		
OPA890ID	296-21959-5-ND	Low Power, Wideband, Voltage-Feedback Op Amp	8-SOIC	1.78	1.42	1.07
OPA890IDBVT	296-21960-1-ND	Low Power, Wideband, Voltage-Feedback Op Amp	SOT-23-6	2.03	1.62	1.22
OPA890IDBVT	296-21960-2-ND	Low Power, Wideband, Voltage-Feedback Op Amp	SOT-23-6	283.50/250		
OPA1013CN8	OPA1013CN8-ND	Precision Single-Supply, Dual Op Amp	8-Dip	5.51	—	—
OPA1013DN8	OPA1013DN8-ND	Precision Single-Supply, Dual Op Amp	8-Dip	4.50	—	—
OPA1632D	296-16679-5-ND	High-Perf., Fully-Diff. Audio Op Amp	8-SOIC	3.94	3.15	2.45
OPA1632DGN	296-17008-ND	High-Perf., Fully-Diff. Audio Op Amp	8-MSOP	3.94	3.15	2.45
OPA2107AP	296-19953-5-ND	Dual, Difet® Op Amp	8-Dip	12.25	—	—
OPA2107AU	OPA2107AU-ND	Dual, Difet® Op Amp	8-SOIC	12.25	—	—
OPA2111KP	296-12983-5-ND	Dual, LN Precision Difet® Op Amp	8-Dip	12.83	—	—
OPA2130UA	OPA2130UA-ND	Dual, LP, Precision, FET-Input Op Amp	8-SOIC	5.06	—	—
OPA2131UA	OPA2131UA-ND	Dual, GP, FET-Input Op Amp	8-SOIC	4.05	3.24	2.52
OPA2131UJ	OPA2131UJ-ND	Dual, GP, FET-Input Op Amp	8-SOIC	3.04	2.43	1.89
OPA2132P	OPA2132P-ND	High Speed, FET Input Op Amp	8-Dip	8.41	7.58	6.72
OPA2132PA	OPA2132PA-ND	High Speed, FET Input Op Amp	8-Dip	5.40	4.32	3.36
OPA2132U	OPA2132U-ND	High Speed, FET Input Op Amp	8-SOIC	8.41	7.58	6.72
OPA2132UA	OPA2132UA-ND	High Speed, FET Input Op Amp	8-SOIC	5.40	4.32	3.36
OPA2134PA	OPA2134PA-ND	Dual, High Performance Audio Op Amp	8-Dip	2.43	1.94	1.46
OPA2134UA	OPA2134UA-ND	Dual, High Performance Audio Op Amp	8-SOIC	2.43	1.94	1.46
OPA2134UA/2K5	296-22024-1-ND	Dual, High Perf. Audio Op Amp	8-SOIC	2.43	1.94	1.46
OPA2134UA/2K5	296-22024-2-ND	Dual, High Perf. Audio Op Amp	8-SOIC	3105.00/2,500		
OPA2137E/250	OPA2137ECT-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	2.59	—	—
OPA2137E/250	OPA2137ETR-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	382.50/250		
OPA2137EA/250	OPA2137EACT-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	1.88	—	—
OPA2137EA/250	OPA2137EATR-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	262.50/250		
OPA2137P	OPA2137P-ND	Dual, Low Cost FET-Input Op Amp	8-Dip	2.36	—	—
OPA2137PA	OPA2137PA-ND	Dual, Low Cost FET-Input Op Amp	8-Dip	1.75	—	—
OPA2137U	OPA2137U-ND	Dual, Low Cost FET-Input Op Amp	8-SOIC	2.36	—	—
OPA2137UA	OPA2137UA-ND	Dual, Low Cost FET-Input Op Amp	8-SOIC	1.75	—	—
OPA2227P	OPA2227P-ND	Dual, High Precision Op Amp	8-Dip	7.60	—	—
OPA2227PA	OPA2227PA-ND	Dual, High Precision Op Amp	8-Dip	3.96	—	—
OPA2227U	OPA2227U-ND	Dual, High Precision Op Amp	8-SOIC	7.60	—	—
OPA2227UA	OPA2227UA-ND	Dual, High Precision Op Amp	8-SOIC	3.96	—	—
OPA2228P	OPA2228P-ND	Dual, High Precision Op Amp	8-Dip	7.60	—	—
OPA2228PA	OPA2228PA-ND	Dual, High Precision Op Amp	8-Dip	3.96	—	—
OPA2228U	OPA2228U-ND	Dual, High Precision Op Amp	8-SOIC	7.60	—	—
OPA2228UA	OPA2228UA-ND	Dual, High Precision Op Amp	8-SOIC	3.96	—	—
OPA2234U	OPA2234U-ND	Dual, Low Power, Precision, Single-Supply Op Amp	8-SOIC	4.93	—	—
OPA2234UA	OPA2234UA-ND	Dual, Low Power, Precision, Single-Supply Op Amp	8-SOIC	4.07	—	—
OPA2237EA/250	OPA2237EACT-ND	Dual, Single-Supply Op Amp	8-MSOP	2.48	1.98	1.49
OPA2237EA/250	OPA2237EATR-ND	Dual, Single-Supply Op Amp	8-MSOP	346.50/250		
OPA2237UA	OPA2237UA-ND	Dual, Single-Supply Op Amp	8-SOIC	2.25	1.80	1.35
OPA2241PA	OPA2241PA-ND	Dual Single-Supply Micropower Op Amp	8-Dip	4.28	—	—
OPA2241UA	OPA2241UA-ND	Dual Single-Supply Micropower Op Amp	8-SOIC	4.28	—	—
OPA2244EA/250	OPA2244EACT-ND	Single-Supply Op Amp	8-MSOP	2.25	—	—
OPA2244EA/250	OPA2244EATR-ND	Single-Supply Op Amp	8-MSOP	315.00/250		
OPA2244PA	OPA2244PA-ND	Single-Supply Op Amp	8-Dip	2.15	—	—
OPA2244UA	OPA2244UA-ND	Single-Supply Op Amp	8-SOIC	2.15	—	—
OPA2251PA	OPA2251PA-ND	Dual Single-Supply Micropower Op Amp	8-Dip	4.39	—	—
OPA2251UA	OPA2251UA-ND	Dual Single-Supply Micropower Op Amp	8-SOIC	4.39	—	—
OPA2277P	OPA2277P-ND	Dual, High Precision Op Amp	8-Dip	6.84	5.48	4.62
OPA2277PA	OPA2277PA-ND	Dual, High Precision Op Amp	8-Dip	3.53	2.83	2.20
OPA2277U	OPA2277U-ND	Dual, High Precision Op Amp	8-SOIC	6.84	5.48	4.62
OPA2277UA	OPA2277UA-ND	Dual, High Precision Op Amp	8-SOIC	3.53	2.83	2.20
OPA2300AIDGST	296-19736-1-ND	High Speed 16-Bit CMOS Op Amp	10-MSOP	4.39	3.51	2.73
OPA2300AIDGST	296-19736-2-ND	High Speed 16-Bit CMOS Op Amp	10-MSOP	648.50/250		
OPA2301AIDGKT	296-18693-1-ND	Low-Noise, High Speed 16-Bit CMOS Op Amp	8-MSOP	4.39	3.51	2.73
OPA2301AIDGKT	296-18693-2-ND	Low-Noise, High Speed 16-Bit CMOS Op Amp	8-MSOP	648.50/250		
OPA2333AID	296-19543-5-ND	1.8V Micropower CMOS Dual Op Amp	8-SOIC	3.38	2.70	2.10
OPA2333AIDGKR	296-22883-1-ND	1.8V Micropower CMOS Dual Op Amp ***NEW!***	8-MSOP	3.38	2.70	2.10
OPA2333AIDGKR	296-22883-2-ND	1.8V Micropower CMOS Dual Op Amp ***NEW!***	8-MSOP	4725.00/2,500		
OPA2333AIDRBT	296-19544-1-ND	1.8V Micropower CMOS Dual Op Amp	8-DFN	3.38	2.70	2.10
OPA2333AIDRBT	296-19544-2-ND	1.8V Micropower CMOS Dual Op Amp	8-DFN	548.75/250		
OPA2333AMDREP	296-22184-1-ND	1.8V Micropower CMOS Dual Op Amp ***NEW!***	8-SOIC	6.00	4.80	4.05
OPA2333AMDREP	296-22184-2-ND	1.8V Micropower CMOS Dual Op Amp ***NEW!***	8-SOIC	9300.00/2,500		
OPA2334AIDGST	296-13459-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp with SD	10-MSOP	3.94	3.15	2.45
OPA2334AIDGST	296-13459-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp with SD	10-MSOP	582.00/250		
OPA2335AIDGKT	296-13461-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-MSOP	3.94	3.15	2.45
OPA2335AIDGKT	296-13461-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-MSOP	582.00/250		
OPA2335AIDR	296-13462-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-SOIC	3.60	2.88	2.24
OPA2335AIDR	296-13462-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-SOIC	5040.00/2,500		
OPA2336E/250	OPA2336ECT-ND	Dual, Micropower Op Amp	8-MSOP	4.05	—	—
OPA2336E/250	OPA2336ETR-ND	Dual, Micropower Op Amp	8-MSOP	598.50/250		
OPA2336EA/250	OPA2336EACT-ND	Dual, Micropower Op Amp	8-MSOP	2.70	—	—
OPA2336EA/250	OPA2336EATR-ND	Dual, Micropower Op Amp	8-MSOP	399.00/250		
OPA2336P	OPA2336P-ND	Dual, Micropower Op Amp	8-Dip	3.71	—	—
OPA2336PA	OPA2336PA-ND	Dual, Micropower Op Amp	8-Dip	2.48	—	—
OPA2336U	OPA2336U-ND	Dual, Micropower Op Amp	8-SOIC	3.71	—	—
OPA2336UA	OPA2336UA-ND	Dual, Micropower Op Amp	8-SOIC	2.48	—	—
OPA2337EA/250	OPA2337EACT-ND	Dual, Single-Supply, MicroSize Op Amp	SOT-23-8	1.63	1.30	.98

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA2337EA/250	OPA2337EATR-ND	Dual, Single-Supply, MicroSize Op Amp	SOT-23-8	227.50/250		
OPA2337PA	OPA2337PA-ND	Dual, Single-Supply, MicroSize Op Amp	8-Dip	1.50	1.20	.90
OPA2337UA	OPA2337UA-ND	Dual, Single-Supply, MicroSize Op Amp	8-SOIC	1.50	1.20	.90
OPA2338EA/250	OPA2338EACT-ND	Dual, OPA338 Op Amp	SOT-23-8	1.63	1.30	.98
OPA2338EA/250	OPA2338EATR-ND	Dual, OPA338 Op Amp	SOT-23-8	227.50/250		
OPA2338UA	OPA2338UA-ND	Dual, OPA338 Op Amp	8-SOIC	1.50	1.20	.90
OPA2340EA/250	OPA2340EACT-ND	Dual, Single-Supply, R/R Op Amp	8-MSOP	2.75	2.20	1.71
OPA2340EA/250	OPA2340EATR-ND	Dual, Single-Supply, R/R Op Amp	8-MSOP	405.75/250		
OPA2340PA	OPA2340PA-ND	Dual, Single-Supply, R/R Op Amp	8-Dip	2.54	2.04	1.59
OPA2340UA	OPA2340UA-ND	Dual, Single-Supply, R/R Op Amp	8-SOIC	2.54	2.04	1.59
OPA2341DGSA/250	OPA2341DGSACT-ND	Dual, Single-Supply, R/R Op Amp with Shutdown	10-MSOP	2.57	2.06	1.60
OPA2341DGSA/250	OPA2341DGSATR-ND	Dual, Single-Supply, R/R Op Amp with Shutdown	10-MSOP	379.00/250		
OPA2342EA/250	OPA2342EACT-ND	Dual, Micropower R/R Op Amp	8-MSOP	2.36	1.89	1.47
OPA2342EA/250	OPA2342EATR-ND	Dual, Micropower R/R Op Amp	8-MSOP	349.25/250		
OPA2342UA	OPA2342UA-ND	Dual, Micropower R/R Op Amp	8-SOIC	2.38	1.90	1.43
OPA2343EA/250	OPA2343EACT-ND	Rail-to-Rail Op Amp	8-MSOP	2.10	1.68	1.26
OPA2343EA/250	OPA2343EATR-ND	Rail-to-Rail Op Amp	8-MSOP	294.00/250		
OPA2343UA	OPA2343UA-ND	Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
OPA2344EA/250	OPA2344EACT-ND	Rail-to-Rail Op Amp	8-MSOP	2.79	—	—
OPA2344EA/250	OPA2344EATR-ND	Rail-to-Rail Op Amp	8-MSOP	412.25/250		
OPA2344PA	OPA2344PA-ND	Rail-to-Rail Op Amp	8-Dip	2.57	—	—
OPA2344UA	OPA2344UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.57	—	—
OPA2345EA/250	OPA2345EACT-ND	Rail-to-Rail Op Amp	8-MSOP	2.79	—	—
OPA2345EA/250	OPA2345EATR-ND	Rail-to-Rail Op Amp	8-MSOP	412.25/250		
OPA2345UA	OPA2345UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.57	—	—
OPA2347EA/250	OPA2347EACT-ND	Rail-to-Rail In/Out Op Amp	SOT-23-8	1.68	1.34	1.01
OPA2347EA/250	OPA2347EATR-ND	Rail-to-Rail In/Out Op Amp	SOT-23-8	234.50/250		
OPA2347UA	OPA2347UA-ND	Rail-to-Rail In/Out Op Amp	8-SOIC	1.55	1.24	.93
OPA2347UA/2K5	OPA2347UATR-ND	Rail-to-Rail In/Out Op Amp	8-SOIC	1985.00/2,500		
OPA2347YEDR	296-18694-1-ND	Rail-to-Rail In/Out Op Amp	8-WCSP	1.90	—	—
OPA2347YEDR	296-18694-2-ND	Rail-to-Rail In/Out Op Amp	8-WCSP	2919.00/3,000		
OPA2347YEDT	296-15210-1-ND	Rail-to-Rail In/Out Op Amp	8-WCSP	2.03	—	—
OPA2347YEDT	296-15210-2-ND	Rail-to-Rail In/Out Op Amp	8-WCSP	283.50/250		
OPA2347YZDR	296-22763-1-ND	Rail-to-Rail In/Out Op Amp **NEW!**	8-WCSP	1.90	1.52	1.14
OPA2347YZDR	296-22763-2-ND	Rail-to-Rail In/Out Op Amp **NEW!**	8-WCSP	2919.00/3,000		
OPA2348AID	296-15363-5-ND	Dual, High Speed, CMOS, R/R, In/Out Op Amp	8-SOIC	.85	.68	.51
OPA2348AIDCNT	296-13008-1-ND	Dual, High Speed, CMOS, R/R, In/Out Op Amp	SOT-23-8	.95	.76	.57
OPA2348AIDCNT	296-13008-2-ND	Dual, High Speed, CMOS, R/R, In/Out Op Amp	SOT-23-8	133.00/250		
OPA2349EA/250	OPA2349EACT-ND	Micropower Op Amp	SOT-23-8	2.13	1.70	1.28
OPA2349EA/250	OPA2349EATR-ND	Micropower Op Amp	SOT-23-8	297.50/250		
OPA2349UA	OPA2349UA-ND	Micropower Op Amp	8-SOIC	1.88	1.50	1.13
OPA2350EA/250	OPA2350EACT-ND	Dual, HS CMOS Op Amp, 35MHz	8-MSOP	3.69	2.96	2.30
OPA2350EA/250	OPA2350EATR-ND	Dual, HS CMOS Op Amp, 35MHz	8-MSOP	545.25/250		
OPA2350PA	OPA2350PA-ND	Dual, HS CMOS Op Amp, 35MHz	8-Dip	3.31	2.65	2.06
OPA2350UA	OPA2350UA-ND	Dual, HS CMOS Op Amp, 35MHz	8-SOIC	3.31	2.65	2.06
OPA2353EA/250	OPA2353EACT-ND	Low Cost, Dual, High-Speed CMOS Op Amp, 35MHz	8-MSOP	3.96	3.17	2.47
OPA2353EA/250	OPA2353EATR-ND	Low Cost, Dual, High-Speed CMOS Op Amp, 35MHz	8-MSOP	585.25/250		
OPA2353UA	OPA2353UA-ND	Low Cost, Dual, High-Speed CMOS Op Amp, 35MHz	8-SOIC	3.65	2.92	2.27
OPA2354AIDDA	296-13784-5-ND	High Speed 250MHz, R/R, I/O, CMOS Op Amp	8-SOIC	2.48	1.98	1.54
OPA2354AIDGKR	296-12642-1-ND	High Speed 250MHz, R/R, I/O, CMOS Op Amp	8-MSOP	2.48	1.98	1.54
OPA2354AIDGKR	296-12642-2-ND	High Speed 250MHz, R/R, I/O, CMOS Op Amp	8-MSOP	3465.00/2,500		
OPA2355DGSA/250	296-12132-1-ND	High Speed Video Op Amp	10-MSOP	2.59	2.07	1.61
OPA2355DGSA/250	296-12132-2-ND	High Speed Video Op Amp	10-MSOP	382.50/250		
OPA2356AID	296-12406-5-ND	200MHz, Dual, HS CMOS Op Amp	8-SOIC	2.59	2.07	1.61
OPA2356AIDGKT	296-19954-1-ND	200MHz, Dual, HS CMOS Op Amp	8-MSOP	2.93	2.34	1.82
OPA2356AIDGKT	296-19954-2-ND	200MHz, Dual, HS CMOS Op Amp	8-MSOP	432.25/250		
OPA2357AIDGST	OPA2357AIDGSTCT-ND	R/R, I/O, CMOS Op Amp with SD	10-MSOP	2.81	2.25	1.75
OPA2357AIDGST	OPA2357AIDGSTTR-ND	R/R, I/O, CMOS Op Amp with SD	10-MSOP	415.75/250		
OPA2363AIDGST	296-13874-1-ND	7MHz, Single Supply R/R Op Amp	10-MSOP	2.36	1.89	1.47
OPA2363AIDGST	296-13874-2-ND	7MHz, Single Supply R/R Op Amp	10-MSOP	349.25/250		
OPA2363IDGST	296-13875-1-ND	7MHz, Single Supply R/R Op Amp	10-MSOP	3.26	2.61	2.03
OPA2363IDGST	296-13875-2-ND	7MHz, Single Supply R/R Op Amp	10-MSOP	482.25/250		
OPA2364AIDGKT	296-13876-1-ND	7MHz, Single Supply R/R Op Amp	8-MSOP	2.36	1.89	1.47
OPA2364AIDGKT	296-13876-2-ND	7MHz, Single Supply R/R Op Amp	8-MSOP	349.25/250		
OPA2364AIDR	296-13877-1-ND	7MHz, Single Supply R/R Op Amp	8-SOIC	2.38	1.90	1.43
OPA2364AIDR	296-13877-2-ND	7MHz, Single Supply R/R Op Amp	8-SOIC	3040.00/2,500		
OPA2364ID	296-13878-5-ND	7MHz, Single Supply R/R Op Amp	8-SOIC	3.04	2.43	1.89
OPA2364IDGKT	296-13879-1-ND	7MHz, Single Supply R/R Op Amp	8-MSOP	3.26	2.61	2.03
OPA2364IDGKT	296-13879-2-ND	7MHz, Single Supply R/R Op Amp	8-MSOP	482.25/250		
OPA2365AID	296-20801-ND	50MHz, 2.2V, R/R Op Amp	8-SOIC	3.83	3.06	2.38
OPA2369AIDCNT	296-22671-1-ND	1.8V, Low Power, Low Voltage Op Amp **NEW!**	SOT-23-8	3.04	2.43	1.89
OPA2369AIDCNT	296-22671-2-ND	1.8V, Low Power, Low Voltage Op Amp **NEW!**	SOT-23-8	449.00/250		
OPA2369AIDGKT	296-22672-1-ND	1.8V, Low Power, Low Voltage Op Amp **NEW!**	8-MSOP	3.04	2.43	1.89
OPA2369AIDGKT	296-22672-2-ND	1.8V, Low Power, Low Voltage Op Amp **NEW!**	8-MSOP	449.00/250		
OPA2373AIDGST	296-18503-1-ND	6.5MHz, R/R In/Out Op Amp	10-MSOP	1.75	1.40	1.05
OPA2373AIDGST	296-18503-2-ND	6.5MHz, R/R In/Out Op Amp	10-MSOP	245.00/250		
OPA2374AID	296-17933-ND	6.5MHz, R/R In/Out Op Amp	8-SOIC	1.63	1.30	.98
OPA2374AIDCNT	296-18504-1-ND	6.5MHz, R/R In/Out Op Amp	SOT-23-8	1.75	1.40	1.05
OPA2374AIDCNT	296-18504-2-ND	6.5MHz, R/R In/Out Op Amp	SOT-23-8	245.00/250		
OPA2376AIDGKR	296-22630-1-ND	Dual Precision, Low Noise, Op Amp **NEW!**	8-MSOP	2.25	1.80	1.40
OPA2376AIDGKR	296-22630-2-ND	Dual Precision, Low Noise, Op Amp **NEW!**	8-MSOP	3150.00/2,500		
OPA2376AIDR	296-22564-1-ND	Dual Precision, Low Noise, Op Amp **NEW!**	8-SOIC	2.25	1.80	1.40
OPA2376AIDR	296-22564-2-ND	Dual Precision, Low Noise, Op Amp **NEW!**	8-SOIC	3150.00/2,500		
OPA2379AID	296-19412-5-ND	1.8V, 90kHz R/R I/O Op Amp	8-SOIC	2.48	1.98	1.54
OPA2380AIDGKT	296-17046-1-ND	Precision, HS, Transimpedance Amp	8-MSOP	6.50	5.20	4.39
OPA2380AIDGKT	296-17046-2-ND	Precision, HS, Transimpedance Amp	8-MSOP	1056.25/250		
OPA2381AIDGKT	296-17413-1-ND	Precision, Low Power, 18MHz Transimpedance Amp	8-MSOP	5.00	4.00	3.38
OPA2381AIDGKT	296-17413-2-ND	Precision, Low Power, 18MHz Transimpedance Amp	8-MSOP	812.50/250		
OPA2381AIDRBT	296-17559-1-ND	Precision, Low Power, 18MHz Transimpedance Amp	8-DFN	5.00	4.00	3.38
OPA2381AIDRBT	296-17559-2-ND	Precision, Low Power, 18MHz Transimpedance Amp	8-DFN	812.50/250		
OPA2541AM	OPA2541AM-ND	Dual, High Power Op Amp, 5A Out	TO-3	192.08	179.27	166.47
OPA2541BM	OPA2541BM-ND	Dual, High Power Op Amp, 5A Out	TO-3	198.39	185.17	171.94
OPA2544T	OPA2544T-ND	Dual, High-Volt./Current Op Amp	TO-220-11	18.00	—	—
OPA2604AP	OPA2604AP-ND	Dual, FET-Input, Low Distortion Op Amp	8-Dip	4.28	—	—
OPA2604AU	OPA2604AU-ND	Dual, FET-Input, Low Distortion Op Amp	8-SOIC	4.28	—	—
OPA2613ID	296-16916-5-ND	Dual, Wideband, High Output Current Op Amp	8-SOIC	3.31	2.65	2.06
OPA2614ID	296-17127-5-ND	Dual, High Gain Bandwidth, High Output Op Amp	8-SOIC	3.49	2.79	2.17
OPA2652E/250	OPA2652ECT-ND	Dual, Voltage Feedback Op Amp	SOT-23-8	2.79	—	—
OPA2652E/250	OPA2652ETR-ND	Dual, Voltage Feedback Op Amp	SOT-23-8	412.25/250		
OPA2652U	OPA2652U-ND	Dual, Voltage Feedback Op Amp	8-SOIC	2.45	—	—
OPA2674I-14D	296-15211-5-ND	Dual, Wideband, High Output Current Op Amp with Current Limit	14-SOIC	2.93	2.34	1.82
OPA2674I-14DR	296-19413-1-ND	Dual Wideband, High Output Current Op Amp with Current Limit	14-SOIC	2.93	2.34	1.82
OPA2674I-14DR	296-19413-2-ND	Dual Wideband, High Output Current Op Amp with Current Limit	14-SOIC	4095.00/2,500		
OPA2674ID	296-15212-5-ND	Dual, Wideband, High Output Current Op Amp with Current Limit	8-SOIC	2.93	2.34	1.82
OPA2677IRGVT	296-19471-1-ND	Dual, Wideband, High Output Current Op Amp	16-QFN	3.60	2.88	2.24
OPA2677IRGVT	296-19471-2-ND	Dual, Wideband, High Output Current Op Amp	16-QFN	532.00/250		
OPA2677IDDAR	296-22968-1-ND	Dual, Wideband, High Output Current Op Amp **NEW!**	8-SOIC	3.22	2.58	2.01
OPA2677IDDAR	296-22968-2-ND	Dual, Wideband, High Output Current Op Amp **NEW!**	8-SOIC	4505.00/2,500		
OPA2677U	OPA2677U-ND	Dual, Wideband, High Output Current Op Amp	8-SOIC	3.13	2.51	1.95
OPA2683ID	296-14172-5-ND	Dual, Very Low Power, Current Feedback Op Amp	8-SOIC	3.96	3.17	2.47
OPA2683IDCNT	296-14173-1-ND	Dual, Very Low Power, Current Feedback Op Amp	SOT-23-8	4.39	3.51	2.73
OPA2683IDCNT	296-14173-2-ND	Dual, Very Low Power, Current Feedback Op Amp	SOT-23-8	648.50/250		
OPA2683IDGST	296-21392-1-ND	Dual, Current Feedback Op Amp	10-MSOP	4.39	3.51	2.73
OPA2683IDGST	296-21392-2-ND	Dual, Current Feedback Op Amp	10-MSOP	648.50/250		
OPA2684ID	296-13463-5-ND	Dual, Low Power, Current Feedback Op Amp	8-SOIC	4.50	3.60	2.80
OPA2684IDCNT	296-13994-1-ND	Dual, Low Power Op Amp	SOT-23-8	4.93	3.95	3.07
OPA2684IDCNT	296-13994-2-ND	Dual, Low Power Op Amp	SOT-23-8	728.25/250		
OPA2690I-14D	296-13464-5-ND	Dual, Wideband, Voltage Feedback Op Amp with Disable	14-SOIC	4.59	3.68	2.86
OPA2690ID	296-13465-5-ND	Dual, Wideband, Voltage Feedback Op Amp with Disable	8-SOIC	4.59	3.68	2.86
OPA2691I-14D	OPA2691I-14D-ND	Dual, Wideband, Current Feedback Op Amp	14-SOIC	4.93	3.95	3.07
OPA2691ID	OPA2691ID-ND	Dual, Wideband, Current Feedback Op Amp	8-SOIC	4.93	3.95	3.07
OPA2694ID	296-17883-ND	Dual, Wideband, Low Power, Current Feedback Op Amp	8-SOIC	4.07	3.26	2.54
OPA2703EA/250	OPA2703EA/250CT-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-MSOP	5.29	—	—
OPA2703EA/250	OPA2703EA/250TR-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-MSOP	781.50/250		
OPA2703PA	OPA2703PA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-Dip	4.84	—	—
OPA2703UA	OPA2703UA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	4.84	—	—
OPA2704EA/250	OPA2704EA/250CT-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	5.29	—	—
OPA2704EA/250	OPA2704EA/250TR-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	781.50/250		
OPA2704PA	OPA2704PA-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-Dip	4.84	—	—
OPA2704UA	OPA2704UA-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	4.84	—	—
OPA2705EA/250	OPA2705EA/250CT-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	2.38	1.90	1.43
OPA2705EA/250	OPA2705EA/250TR-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	332.50/250		
OPA2705PA	OPA2705PA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-Dip	2.38	1.90	1.43
OPA2705UA	OPA2705UA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	2.38	1.90	1.43
OPA2725AID	296-17228-5-ND	12V, High Speed CMOS Op Amp	8-SOIC	3.04	2.43	1.89
OPA2725AIDGKT	296-16768-1-ND	12V, High Speed CMOS Op Amp	8-MSOP	3.38	2.70	2.10
OPA2725AIDGKT	296-16768-2-ND	12V, High Speed CMOS Op Amp	8-MSOP	498.75/250		
OPA2726AIDGST	296-18505-1-ND	12V, Low Noise High Speed, CMOS Op Amp	10-MSOP	3.38	2.70	2.10
OPA2726AIDGST	296-18505-2-ND	12V, Low Noise High Speed, CMOS Op Amp	10-MSOP	498.75/250		
OPA2727AIDR	296-21651-1-ND	12V, e-trim™ 20MHz High Precision CMOS Op Amp	8-SOIC	3.49	2.79	2.17
OPA2727AIDR	296-21651-2-ND	12V, e-trim™ 20MHz High Precision CMOS Op Amp	8-SOIC	4882.50/2,500		
OPA2727AIDRBT	296-21233-1-ND	12V, e-trim™ 20MHz High Precision CMOS Op Amp	8-SON	3.94	3.15	2.45
OPA2727AIDRBT	296-21233-2-ND	12V, e-trim™ 20MHz High Precision CMOS Op Amp	8-SON	582.00/250		
OPA2734AIDGST	296-16769-1-ND	Zero-Drift, Single-Supply, CMOS Op Amp	10-MSOP	4.95	3.96	3.08
OPA2734AIDGST	296-16769-2-ND	Zero-Drift, Single-Supply, CMOS Op Amp	10-MSOP	731.50/250		
OPA2735AID	296-16770-5-ND	Zero-Drift, Single-Supply, CMOS Op Amp	8-SOIC	4.50	3.60	2.80
OPA2735AIDGKT	296-16771-1-ND	Zero-Drift, Single-Supply, CMOS Op Amp	8-MSOP	4.95	3.96	3.08

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA2735AIDGKT	296-16771-2-ND	Zero-Drift, Single-Supply, CMOS Op Amp	8-MSOP	731.50/250		
OPA2743EA/2K5	OPA2743EA/2K5CT-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	3.49	2.79	2.17
OPA2743EA/2K5	OPA2743EA/2K5TR-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	4882.50/2,500		
OPA2743EA/250	296-17017-1-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-MSOP	3.83	3.06	2.38
OPA2743EA/250	296-17017-2-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-MSOP	565.25/250		
OPA2743PA	296-12726-5-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-Dip	3.49	2.79	2.17
OPA2743UA	296-12727-5-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	3.49	2.79	2.17
OPA2822E/250	296-12984-1-ND	Dual, Wideband, Low Noise Op Amp	8-MSOP	3.22	2.58	2.01
OPA2822E/250	296-12984-2-ND	Dual, Wideband, Low Noise Op Amp	8-MSOP	475.50/250		
OPA2822U	296-9623-5-ND	Dual, Wideband, Low Noise Op Amp	8-SOIC	2.88	2.31	1.80
OPA2830ID	296-17957-5-ND	Dual, Low Power, Single Supply, Wideband Op Amp	8-SOIC	1.90	1.52	1.14
OPA2830IDGKT	296-17958-1-ND	Dual, Low Power, Single Supply, Wideband Op Amp	8-MSOP	2.15	1.72	1.29
OPA2830IDGKT	296-17958-2-ND	Dual, Low Power, Single Supply, Wideband Op Amp	8-MSOP	301.00/250		
OPA2832ID	296-18002-5-ND	Dual, Low Power, High Speed, Fixed Gain Op Amp	8-SOIC	1.78	1.42	1.07
OPA2832IDGKT	296-18003-1-ND	Dual, Low Power, High Speed, Fixed Gain Op Amp	8-MSOP	2.03	1.62	1.22
OPA2832IDGKT	296-18003-2-ND	Dual, Low Power, High Speed, Fixed Gain Op Amp	8-MSOP	283.50/250		
OPA2846ID	296-16853-5-ND	Dual, Wideband, Low-Noise, Voltage-Feedback Op Amp	8-SOIC	5.10	4.08	3.45
OPA2889ID	296-22185-5-ND	Dual, Low Power, Wideband, Voltage-Feedback Op Amp ***NEW!***	8-SOIC	2.57	2.06	1.60
OPA2889IDGSR	296-22186-1-ND	Dual, Low Power, Wideband, Voltage-Feedback Op Amp ***NEW!***	10-MSOP	2.57	2.06	1.60
OPA2889IDGSR	296-22186-2-ND	Dual, Low Power, Wideband, Voltage-Feedback Op Amp ***NEW!***	10-MSOP	3590.00/2,500		
OPA2890ID	296-22969-5-ND	Low Power, Wideband, Voltage-Feedback Op Amp ***NEW!***	8-SOIC	2.57	2.06	1.60
OPA2890IDGST	296-22970-1-ND	Low Power, Wideband, Voltage-Feedback Op Amp ***NEW!***	10-MSOP	2.79	2.24	1.74
OPA2890IDGST	296-22970-2-ND	Low Power, Wideband, Voltage-Feedback Op Amp ***NEW!***	10-MSOP	412.25/250		
OPA3355EA/250	OPA3355EA/250CT-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-TSSOP	3.60	2.88	2.24
OPA3355EA/250	OPA3355EA/250TR-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-TSSOP	532.00/250		
OPA3355UA	OPA3355UA-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-SOIC	3.26	2.61	2.03
OPA3355UA/2K5	OPA3355UA/2K5CT-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-SOIC	3.26	2.61	2.03
OPA3355UA/2K5	OPA3355UA/2K5TR-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-SOIC	4567.50/2,500		
OPA3684ID	296-13646-5-ND	Low Power, Triple Current Feedback Op Amp with Disable	14-SOIC	5.50	4.40	3.72
OPA3684IDBQT	296-13647-1-ND	Low Power, Triple Current Feedback Op Amp with Disable	16-QSOP	6.00	4.80	4.05
OPA3684IDBQT	296-13647-2-ND	Low Power, Triple Current Feedback Op Amp with Disable	16-QSOP	975.00/250		
OPA3690ID	OPA3690ID-ND	Triple, Wideband, Voltage Feedback Op Amp	16-SOIC	5.80	4.64	3.92
OPA3690IDBQT	OPA3690IDBQTCT-ND	Triple, Wideband, Voltage Feedback Op Amp	16-QSOP	6.40	5.12	4.32
OPA3690IDBQT	OPA3690IDBQTTR-ND	Triple, Wideband, Voltage Feedback Op Amp	16-QSOP	1040.00/250		
OPA3691ID	OPA3691ID-ND	Triple, Wideband, Current Feedback Op Amp	16-SOIC	6.20	4.96	4.19
OPA3691IDBQT	OPA3691IDBQTCT-ND	Triple, Wideband, Current Feedback Op Amp	16-QSOP	6.80	5.44	4.59
OPA3691IDBQT	OPA3691IDBQTTR-ND	Triple, Wideband, Current Feedback Op Amp	16-QSOP	1105.00/250		
OPA3692ID	296-12603-5-ND	Triple Wideband, Current Feedback Op Amp with Disable	16-SOIC	5.50	4.40	3.72
OPA3692IDBQT	296-12604-1-ND	Triple Wideband, Current Feedback Op Amp with Disable	16-QSOP	6.10	4.88	4.12
OPA3692IDBQT	296-12604-2-ND	Triple Wideband, Current Feedback Op Amp with Disable	16-QSOP	991.25/250		
OPA3693IDBQ	296-21393-5-ND	Triple Wideband, Fixed Gain, Video Buffer	16-QSOP	5.10	4.08	3.45
OPA3832ID	296-21667-5-ND	Triple Low Power, High Speed, Fixed Gain Op Amp	14-SOIC	2.38	1.90	1.43
OPA3832IPW	296-21394-5-ND	Triple Low Power, High Speed, Fixed Gain Op Amp	14-TSSOP	2.38	1.90	1.43
OPA3875IDBQ	296-21395-5-ND	Triple 2:1 High Speed Video Mux	16-QSOP	5.10	4.08	3.45
OPA4130UA	OPA4130UA-ND	Quad, LP, Precision, FET-In Op Amp	14-SOIC	6.90	5.52	4.66
OPA4131NA	OPA4131NA-ND	Quad, General Purpose FET-Input Op Amp	14-SOIC	7.30	5.84	4.93
OPA4131NJ	OPA4131NJ-ND	Quad, General Purpose FET-Input Op Amp	14-SOIC	6.10	4.88	4.12
OPA4131PA	OPA4131PA-ND	Quad, General Purpose FET-Input Op Amp	14-Dip	7.30	5.84	4.93
OPA4131PJ	OPA4131PJ-ND	Quad, General Purpose, FET-Input Op Amp	14-Dip	6.10	4.88	4.12
OPA4131UA	OPA4131UA-ND	Quad, General Purpose FET-Input Op Amp	16-SOIC	7.30	5.84	4.93
OPA4132UA	OPA4132UA-ND	Quad, HS, FET-Input Op Amp	14-SOIC	9.10	7.28	6.15
OPA4134UA	OPA4134UA-ND	Quad, High Performance Op Amp	14-SOIC	3.49	2.79	2.17
OPA4137P	OPA4137P-ND	Quad, FET-Input Op Amp	14-Dip	3.26	—	—
OPA4137PA	OPA4137PA-ND	Quad, FET-Input Op Amp	14-Dip	2.48	—	—
OPA4137U	OPA4137U-ND	Quad, FET-Input Op Amp	14-SOIC	3.26	—	—
OPA4137UA	OPA4137UA-ND	Quad, FET-Input Op Amp	14-SOIC	2.48	—	—
OPA4227PA	OPA4227PA-ND	Quad, High Precision Op Amp	14-Dip	7.70	—	—
OPA4227UA	OPA4227UA-ND	Quad, High Precision Op Amp	14-SOIC	7.70	—	—
OPA4228PA	OPA4228PA-ND	Quad, High Precision Op Amp	14-Dip	7.70	—	—
OPA4228UA	OPA4228UA-ND	Quad, High Precision Op Amp	14-SOIC	7.70	—	—
OPA4241PA	OPA4241PA-ND	Quad, Single-Supply µpower Op Amp	14-Dip	8.40	—	—
OPA4241UA	OPA4241UA-ND	Quad, Single-Supply µpower Op Amp	14-SOIC	8.40	—	—
OPA4243EA/250	OPA4243EACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	3.94	—	—
OPA4243EA/250	OPA4243EATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	582.00/250		
OPA4244EA/250	OPA4244EACT-ND	Single-Supply µpower Op Amp	14-TSSOP	3.53	—	—
OPA4244EA/250	OPA4244EATR-ND	Single-Supply µpower Op Amp	14-TSSOP	522.00/250		
OPA4251PA	OPA4251PA-ND	Quad, Single-Supply µpower Op Amp	14-Dip	8.40	—	—
OPA4251UA	OPA4251UA-ND	Quad, Single-Supply µpower Op Amp	14-SOIC	8.40	—	—
OPA4277PA	OPA4277PA-ND	Quad, High Precision Op Amp	14-Dip	7.32	5.86	4.95
OPA4277UA	OPA4277UA-ND	Quad, High Precision Op Amp	14-SOIC	7.32	5.86	4.95
OPA4234U	OPA4234U-ND	Quad, Low Power, Precision, Single-Supply Op Amp	14-SOIC	7.50	—	—
OPA4234UA	OPA4234UA-ND	Quad, Low Power, Precision, Single-Supply Op Amp	14-SOIC	6.56	—	—
OPA4336EA/250	OPA4336EACT-ND	Quad, Single-Supply, Micropower Op Amp	16-SSOP	4.28	—	—
OPA4336EA/250	OPA4336EATR-ND	Quad, Single-Supply, Micropower Op Amp	16-SSOP	631.75/250		
OPA4340EA/250	OPA4340EACT-ND	Quad, Single-Supply, R/R Op Amp	16-SSOP	4.73	—	—
OPA4340EA/250	OPA4340EATR-ND	Quad, Single-Supply, R/R Op Amp	16-SSOP	698.25/250		
OPA4340UA	OPA4340UA-ND	Quad, Single-Supply, R/R Op Amp	14-SOIC	4.34	—	—
OPA4342EA/250	OPA4342EACT-ND	Quad, Micropower R/R Op Amp	14-TSSOP	3.65	2.92	2.27
OPA4342EA/250	OPA4342EATR-ND	Quad, Micropower R/R Op Amp	14-TSSOP	538.75/250		
OPA4342PA	OPA4342PA-ND	Quad, Micropower R/R Op Amp	14-Dip	3.65	2.92	2.27
OPA4342UA	OPA4342UA-ND	Quad, Micropower R/R Op Amp	14-SOIC	3.65	2.92	2.27
OPA4343EA/250	OPA4343EACT-ND	Quad, Single-Supply Op Amp	16-SSOP	3.60	2.88	2.24
OPA4343EA/250	OPA4343EATR-ND	Quad, Single-Supply Op Amp	16-SSOP	532.00/250		
OPA4343NA/250	OPA4343NACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	3.60	2.88	2.24
OPA4343NA/250	OPA4343NATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	532.00/250		
OPA4343UA	OPA4343UA-ND	Quad, Single-Supply Op Amp	14-SOIC	3.22	2.58	2.01
OPA4344EA/250	OPA4344EACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	4.70	—	—
OPA4344EA/250	OPA4344EATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	695.00/250		
OPA4344PA	OPA4344PA-ND	Quad, Single-Supply Op Amp	14-Dip	4.28	—	—
OPA4344UA	OPA4344UA-ND	Quad, Single-Supply Op Amp	14-SOIC	4.28	—	—
OPA4345EA/250	OPA4345EACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	4.28	—	—
OPA4345EA/250	OPA4345EATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	631.75/250		
OPA4345UA	OPA4345UA-ND	Quad, Single-Supply Op Amp	14-SOIC	4.28	—	—
OPA4347EA/250	OPA4347EACT-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.57	2.06	1.60
OPA4347EA/250	OPA4347EATR-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	379.00/250		
OPA4347UA	OPA4347UA-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.36	1.89	1.47
OPA4347UA/2K5	OPA4347UATR-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3307.50/2,500		
OPA4348AID	296-12277-5-ND	1MHz, Quad, R/R, I/O Op Amp	14-SOIC	1.17	.94	.73
OPA4348AIPWT	296-12278-1-ND	1MHz, Quad, R/R, I/O Op Amp	14-TSSOP	1.40	1.12	.87
OPA4348AIPWT	296-12278-2-ND	1MHz, Quad, R/R, I/O Op Amp	14-TSSOP	206.25/250		
OPA4350EA/250	OPA4350EACT-ND	High Speed CMOS Op Amp, 35MHz	16-SSOP	8.06	—	—
OPA4350EA/250	OPA4350EATR-ND	High Speed CMOS Op Amp, 35MHz	16-SSOP	1309.75/250		
OPA4350UA	OPA4350UA-ND	High Speed CMOS Op Amp, 35MHz	14-SOIC	7.30	—	—
OPA4353EA/250	OPA4353EACT-ND	Low Cost, HS CMOS Op Amp	16-SSOP	5.22	4.18	3.53
OPA4353EA/250	OPA4353EATR-ND	Low Cost, HS CMOS Op Amp	16-SSOP	848.25/250		
OPA4353UA	OPA4353UA-ND	Low Cost, HS CMOS Op Amp	14-SOIC	5.36	4.29	3.34
OPA4354AIDR	296-12643-1-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-SOIC	3.60	2.88	2.24
OPA4354AIDR	296-12643-2-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-SOIC	5040.00/2,500		
OPA4354AIPWR	296-12644-1-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-TSSOP	3.60	2.88	2.24
OPA4354AIPWR	296-12644-2-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-TSSOP	5040.00/2,500		
OPA4364AID	296-14629-5-ND	1.8V, 7MHz, Single-Supply R/R Op Amp	14-SOIC	3.15	2.52	1.96
OPA4364AIPWT	296-14630-1-ND	1.8V, 7MHz, Single-Supply R/R Op Amp	14-TSSOP	3.49	2.79	2.17
OPA4364AIPWT	296-14630-2-ND	1.8V, 7MHz, Single-Supply R/R Op Amp	14-TSSOP	515.50/250		
OPA4374AID	296-18201-ND	6.5MHz, R/R In/Out Op Amp	14-SOIC	2.38	1.90	1.43
OPA4374AIPWT	296-16811-1-ND	6.5MHz, R/R In/Out Op Amp	14-TSSOP	2.36	1.89	1.47
OPA4374AIPWT	296-16811-2-ND	6.5MHz, R/R In/Out Op Amp	14-TSSOP	349.25/250		
OPA4376AIPWR	296-22565-1-ND	Quad Precision, Low Noise, Op Amp ***NEW!***	14-TSSOP	3.15	2.52	1.96
OPA4376AIPWR	296-22565-2-ND	Quad Precision, Low Noise, Op Amp ***NEW!***	14-TSSOP	3570.00/2,000		
OPA4379AIPWR	296-21236-1-ND	1.8V, 90kHz RRIO Op Amp	14-TSSOP	3.38	2.70	2.10
OPA4379AIPWR	296-21236-2-ND	1.8V, 90kHz RRIO Op Amp	14-TSSOP	3825.00/2,000		
OPA4684ID	296-13648-5-ND	Quad, Low Power, Current-Feedback Op Amp	14-SOIC	6.28	5.03	4.24
OPA4684IPWT	296-13649-1-ND	Quad, Low Power, Current-Feedback Op Amp	14-TSSOP	6.94	5.56	4.69
OPA4684IPWT	296-13649-2-ND	Quad, Low Power, Current-Feedback Op Amp	14-TSSOP	1127.75/250		
OPA4703EA/2K5	OPA4703EA/2K5CT-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	8.10	—	—
OPA4703EA/2K5	OPA4703EA/2K5TR-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	12555.00/2,500		
OPA4703EA/250	296-17093-1-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	8.90	—	—
OPA4703EA/250	296-17093-2-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	1446.25/250		
OPA4703UA	OPA4703UA-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-SOIC	8.10	—	—
OPA4704EA/2K5	OPA4704EA/2K5CT-ND	5MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	8.10	—	—
OPA4704EA/2K5	OPA4704EA/2K5TR-ND	5MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	12555.00/2,500		
OPA4704EA/250	296-17094-1-ND	5MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	8.90	—	—
OPA4704EA/250	296-17094-2-ND	5MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	1446.25/250		
OPA4704UA	OPA4704UA-ND	5MHz, Quad CMOS R/R, I/O Op Amp	14-SOIC	8.10	—	—
OPA4705EA/2K5	OPA4705EA/2K5CT-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	3.60	2.88	2.24
OPA4705EA/2K5	OPA4705EA/2K5TR-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	5040.00/2,500		
OPA4705EA/250	296-17095-1-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	3.94	3.15	2.45
OPA4705EA/250	296-17095-2-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	582.00/250		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA4705UA	OPA4705UA-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-SOIC	3.60	2.88	2.24
OPA4727AIPWR	296-21237-1-ND	*e-trim*™ 20MHz, High Precision CMOS Op Amp	14-TSSOP	5.00	4.00	3.38
OPA4727AIPWR	296-21237-2-ND	*e-trim*™ 20MHz, High Precision CMOS Op Amp	14-TSSOP	6250.00/2,000		
OPA4743EA/250	OPA4743EA/250CT-ND	7MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	5.29	4.23	3.29
OPA4743EA/250	OPA4743EA/250TR-ND	7MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	781.50/250		
OPA4743UA	296-12205-5-ND	12V, Quad, High Speed, R/R, I/O Op Amp	14-SOIC	5.29	4.23	3.29
OPA4820IPWT	296-17560-1-ND	Quad, Unity-Gain Stable, Low-Noise, Voltage-Feedback Op Amp	14-TSSOP	5.10	4.08	3.45
OPA4820IPWT	296-17560-2-ND	Quad, Unity-Gain Stable, Low-Noise, Voltage-Feedback Op Amp	14-TSSOP	828.75/250		
OPA4820ID	296-17590-5-ND	Quad, Unity-Gain Stable, Low-Noise, Voltage-Feedback Op Amp	14-SOIC	5.18	4.14	3.22
OPA4830IPW	296-21513-5-ND	Quad, LP, Wideband Op Amp	14-TSSOP	2.81	2.25	1.75
OPA4872ID	296-22192-5-ND	4:1 High Speed Mux ***NEW!***	14-SOIC	4.59	3.68	2.86
PGA103U	PGA103U-ND	Programmable Gain Amp	8-SOIC	8.70	—	—
PGA112AIDGST	296-23315-1-ND	Prog. Gain Amp with Mux ***NEW!***	10-MSOP	2.48	1.98	1.54
PGA112AIDGST	296-23315-2-ND	Prog. Gain Amp with Mux ***NEW!***	10-MSOP	365.75/250		
PGA202KP	PGA202KP-ND	Digitally Controlled Programmable Gain Op Amp	14-Dip	12.91	—	—
PGA203KP	PGA203KP-ND	Digitally Controlled Programmable Gain Op Amp	14-Dip	12.91	—	—
PGA204AP	PGA204AP-ND	Prog. Gain Instrumentation Amp	16-Dip	13.91	—	—
PGA204AU	PGA204AU-ND	Prog. Gain Instrumentation Amp	16-SOIC	13.91	—	—
PGA204BP	PGA204BP-ND	Prog. Gain Instrumentation Amp	16-Dip	15.08	—	—
PGA204BU	PGA204BU-ND	Prog. Gain Instrumentation Amp	16-SOIC	15.08	—	—
PGA205AP	PGA205AP-ND	Prog. Gain Instrumentation Amp	16-Dip	12.08	—	—
PGA205AU	PGA205AU-ND	Prog. Gain Instrumentation Amp	16-SOIC	12.08	—	—
PGA205BP	PGA205BP-ND	Prog. Gain Instrumentation Amp	16-Dip	15.15	—	—
PGA205BU	PGA205BU-ND	Prog. Gain Instrumentation Amp	16-SOIC	15.15	—	—
PGA206UA	PGA206UA-ND	High Speed Programmable Gain Instrumentation Amp	16-SOIC	16.20	—	—
PGA207UA	296-15093-5-ND	High Speed Programmable Gain Instrumentation Amp	16-SOIC	17.78	—	—
PGA309AIPWT	296-16726-1-ND	Smart Programmable Sensor	16-TSSOP	6.50	5.20	4.39
PGA2500EVM	296-18514-ND	Evaluation Module for PGA2500	—	101.00	—	—
PGA2500IDB	296-16674-5-ND	Digital Controlled Microphone Preamp	28-SSOP	16.58	14.93	13.24
RC4136N	296-9649-5-ND	Quad General Purpose Op Amp	14-Dip	1.20	1.00	.80
RC4558D	296-9650-5-ND	Dual General Purpose Op Amp	8-SOIC	.46	.37	.26
RC4558DGKR	296-16946-1-ND	Dual General Purpose Op Amp	8-VSSOP	.50	.40	.30
RC4558DGKR	296-16946-2-ND	Dual General Purpose Op Amp	8-VSSOP	337.50/2,500		
RC4558DR	296-14634-1-ND	Dual General Purpose Op Amp	8-SOIC	.42	.34	.24
RC4558DR	296-14634-2-ND	Dual General Purpose Op Amp	8-SOIC	272.50/2,500		
RC4558IDGKR	296-17418-1-ND	Dual General Purpose Op Amp	8-MSOP	.56	.42	.32
RC4558IDGKR	296-17418-2-ND	Dual General Purpose Op Amp	8-MSOP	455.00/2,500		
RC4558IDR	296-17440-1-ND	Dual General Purpose Op Amp	8-SOIC	.48	.36	.27
RC4558IDR	296-17440-2-ND	Dual General Purpose Op Amp	8-SOIC	390.00/2,500		
RC4558IP	296-17460-5-ND	Dual General Purpose Op Amp	8-Dip	.48	.36	.27
RC4558IPWR	296-17419-1-ND	Dual General Purpose Op Amp	8-TSSOP	.48	.36	.27
RC4558IPWR	296-17419-2-ND	Dual General Purpose Op Amp	8-TSSOP	320.00/2,000		
RC4558P	296-1414-5-ND	Dual General Purpose Op Amp	8-Dip	.40	.33	.22
RC4558PSR	296-9651-1-ND	Dual General Purpose Op Amp	8-SOP	.46	.37	.26
RC4558PSR	296-9651-2-ND	Dual General Purpose Op Amp	8-SOP	252.00/2,000		
RC4558PWR	296-13789-1-ND	Dual General Purpose Op Amp	8-TSSOP	.46	.37	.26
RC4558PWR	296-13789-2-ND	Dual General Purpose Op Amp	8-TSSOP	252.00/2,000		
RC4559P	296-9652-5-ND	Dual High Performance Op Amp	8-Dip	.92	.69	.52
RC4560IDR	296-17547-1-ND	Dual Audio Op Amp	8-SOIC	.92	.69	.52
RC4560IDR	296-17547-2-ND	Dual Audio Op Amp	8-SOIC	747.50/2,500		
RC4560IP	296-17554-5-ND	Dual Audio Op Amp	8-Dip	.92	.69	.52
RC4560IPWR	296-17544-1-ND	Dual Audio Op Amp	8-TSSOP	.92	.69	.52
RC4560IPWR	296-17544-2-ND	Dual Audio Op Amp	8-TSSOP	612.00/2,000		
RC4580IDR	296-15367-1-ND	Dual Audio Op Amp	8-SOIC	.75	.63	.50
RC4580IDR	296-15367-2-ND	Dual Audio Op Amp	8-SOIC	812.50/2,500		
RC4580IP	296-15368-5-ND	Dual Audio Op Amp	8-Dip	.92	.69	.52
RC4580IPWR	296-15369-1-ND	Dual Audio Op Amp	8-TSSOP	.92	.69	.52
RC4580IPWR	296-15369-2-ND	Dual Audio Op Amp	8-TSSOP	612.00/2,000		
SA5532ADR	296-16994-1-ND	Dual, High Speed Audio Op Amp	8-SOIC	.99	.83	.66
SA5532ADR	296-16994-2-ND	Dual, High Speed Audio Op Amp	8-SOIC	1072.50/2,500		
SA5532AP	296-16995-5-ND	Dual, High Speed Audio Op Amp	8-Dip	.99	.83	.66
SA5532DR	296-16996-1-ND	Dual, High Speed Audio Op Amp	8-SOIC	.75	.63	.50
SA5532DR	296-16996-2-ND	Dual, High Speed Audio Op Amp	8-SOIC	812.50/2,500		
SA5532P	296-16996-5-ND	Dual, High Speed Audio Op Amp	8-Dip	.75	.63	.50
SA5534ADR	296-17271-1-ND	Low Noise Op Amp	8-SOIC	1.20	1.00	.80
SA5534ADR	296-17271-2-ND	Low Noise Op Amp	8-SOIC	1300.00/2,500		
SA5534AP	296-17272-5-ND	Low Noise Op Amp	8-Dip	1.20	1.00	.80
SA5534DR	296-17273-1-ND	Low Noise Op Amp	8-SOIC	1.11	.93	.74
SA5534DR	296-17273-2-ND	Low Noise Op Amp	8-SOIC	1202.50/2,500		
SA5534P	296-17274-5-ND	Low Noise Op Amp	8-Dip	1.11	.93	.74
SA5534PSR	296-17275-1-ND	Low Noise Op Amp	8-SOP	1.11	.93	.74
SA5534PSR	296-17275-2-ND	Low Noise Op Amp	8-SOP	984.00/2,000		
SN10501D	296-14777-5-ND	High Speed, R/R, Video Op Amp	8-SOIC	1.68	1.34	1.01
SN10501DBVT	296-15094-1-ND	High Speed, R/R, Video Op Amp	SOT-23-5	1.90	1.52	1.14
SN10501DBVT	296-15094-2-ND	High Speed, R/R, Video Op Amp	SOT-23-5	266.00/250		
SN10501DGK	296-16654-5-ND	High Speed, R/R, Video Op Amp	8-MSOP	1.68	1.34	1.01
SN10501DGN	296-18520-5-ND	High Speed, R/R, Video Op Amp	8-MSOP	1.68	1.34	1.01
SN10502D	296-15329-5-ND	High Speed, R/R, Video Op Amp	8-SOIC	2.25	1.80	1.35
SN10502DGK	296-16655-5-ND	High Speed, R/R, Video Op Amp	8-MSOP	2.25	1.80	1.35
SN10502DGN	296-16656-5-ND	High Speed, R/R, Video Op Amp	8-MSOP	2.25	1.80	1.35
SN10503D	296-14778-5-ND	High Speed, R/R, Video Op Amp	14-SOIC	2.79	2.24	1.74
SN10503PWP	296-16829-5-ND	High Speed, R/R, Video Op Amp	14-HTSSOP	2.79	2.24	1.74
SN75207BN	296-9910-5-ND	Dual High Sensitivity Line Receiver	14-Dip	2.81	2.25	1.75
SN761633RTAR	296-22932-1-ND	FM Stereo Radio/Transmitter ***NEW!***	40-QFN	4.73	3.78	2.94
SN761633RTAR	296-22932-2-ND	FM Stereo Radio/Transmitter ***NEW!***	40-QFN	5356.00/2,000		
SN761662DBTR	296-19431-1-ND	Digital TV Tuner IC	38-TSSOP	2.27	1.82	1.42
SN761662DBTR	296-19431-2-ND	Digital TV Tuner IC	38-TSSOP	2576.00/2,000		
SN761663DGKR	296-18720-1-ND	Auto Gain Control Amp	8-MSOP	2.10	1.68	1.26
SN761663DGKR	296-18720-2-ND	Auto Gain Control Amp	8-MSOP	2687.50/2,500		
SN761664DBTR	296-20650-1-ND	Digital TV Tuner IC	38-TSSOP	2.27	1.82	1.42
SN761664DBTR	296-20650-2-ND	Digital TV Tuner IC	38-TSSOP	2576.00/2,000		
SN761666DGKR	296-20651-1-ND	Auto Gain Control Amp	8-MSOP	2.10	1.68	1.26
SN761666DGKR	296-20651-2-ND	Auto Gain Control Amp	8-MSOP	2687.50/2,500		
SN761667RHAR	296-21711-1-ND	Digital TV Tuner	40-QFN	2.84	2.27	1.77
SN761667RHAR	296-21711-2-ND	Digital TV Tuner	40-QFN	3970.00/2,500		
SN761678BDBTR	296-20686-1-ND	TV Tuner IC	30-TSSOP	2.10	1.68	1.26
SN761678BDBTR	296-20686-2-ND	TV Tuner IC	30-TSSOP	2184.00/2,000		
SN761681DBTR	296-19597-1-ND	TV Tuner IC	30-TSSOP	2.10	1.68	1.26
SN761681DBTR	296-19597-2-ND	TV Tuner IC	30-TSSOP	2184.00/2,000		
SN761683BDAR	296-21821-1-ND	TV Tuner IC	32-TSSOP	2.10	1.68	1.26
SN761683BDAR	296-21821-2-ND	TV Tuner IC	32-TSSOP	2184.00/2,000		
SN761685PWR	296-19782-1-ND	TV Tuner IC	24-TSSOP	1.68	1.34	1.01
SN761685PWR	296-19782-2-ND	TV Tuner IC	24-TSSOP	1742.00/2,000		
SN761688PWR	296-19739-1-ND	Down Converter	16-TSSOP	1.68	1.34	1.01
SN761688PWR	296-19739-2-ND	Down Converter	16-TSSOP	1742.00/2,000		
TAS5015PFB	296-12995-5-ND	True Digital Audio Amp TAS5015 Digital Audio PWM Processor	48-TQFP	33.66	31.42	29.18
TAS5100ADAP	296-12744-5-ND	Digital Audio PWM Amp	32-HTSSOP	17.85	16.66	15.47
TAS5110DAP	296-12997-5-ND	True Digital Audio Amp TAS5110 PWM Power Output Stage	32-HTSSOP	17.85	16.66	15.47
TAS5111ADADR	296-21516-1-ND	Digital Amp Power Stage	32-TSSOP	5.40	4.32	3.36
TAS5111ADADR	296-21516-2-ND	Digital Amp Power Stage	32-TSSOP	6120.00/2,000		
TAS5111DAD	296-15277-5-ND	Digital Amp Power Stage	32-TSSOP	6.64	5.32	4.49
TAS5112ADCA	296-17673-5-ND	Digital Amp Stereo Power Stage	56-TSSOP	7.50	6.00	5.07
TAS5112ADFD	296-15944-5-ND	Digital Amp Stereo Power Stage	56-TSSOP	7.50	6.00	5.07
TAS5112DFD	296-15330-5-ND	Digital Amp Stereo Power Stage	56-HTSSOP	8.34	6.68	5.63
TAS5121DKD	296-16644-5-ND	Digital Amp Stereo Power Stage	36-PSOP3	6.00	4.80	4.05
TAS5121IDKD	296-17474-5-ND	Digital Amp Stereo Power Stage	36-PSOP3	6.80	5.44	4.59
TAS5122DCA	296-18835-5-ND	30W Stereo Digital Amp Power Stage	56-HTSSOP	6.00	4.80	4.05
TAS5132DDV	296-21414-5-ND	Stereo Digital Amp Power Stage	44-HTSSOP	4.39	3.51	2.73
TAS5142DDV	296-18033-5-ND	Digital Amp Stereo Power Stage	44-HTSSOP	6.20	4.96	4.19
TAS5142DKD	296-17861-5-ND	Stereo Digital Amp Power Stage	36-SSOP	8.00	6.40	5.40
TAS5152DKD	296-17901-5-ND	Stereo Digital Amp Power Stage	36-PSOP3	8.60	6.88	5.81
TAS5162DDV	296-21652-ND	2x210 Watt Stereo Digital Amp Power Stage	44-HTSSOP	9.90	7.92	6.69
TAS5162DKD	296-21653-ND	2x210 Watt Stereo Digital Amp Power Stage	36-SSOP	9.75	8.78	7.79
TAS5176DDW	296-22026-5-ND	6-Ch., 100W Digital Amp Power Stage ***NEW!***	44-HTSSOP	8.60	6.88	5.81
TAS5182DCA	296-15249-5-ND	100W Stereo Digital Amp Power Stage Controller	56-HTSSOP	8.83	7.95	7.05
TAS5182IDCA	296-16663-5-ND	100W Stereo Digital Amp Power Stage Controller	56-HTSSOP	9.41	8.48	7.52
TAS5186ADDV	296-19320-5-ND	6-Ch., 210W Digital Amp Power Stage	44-HTSSOP	8.50	7.65	6.79
TAS5186ADDVR	296-19321-1-ND	6-Ch., 210W Digital Amp Power Stage	44-HTSSOP	8.50	7.65	6.79
TAS5186ADDVR	296-19321-2-ND	6-Ch., 210W Digital Amp Power Stage	44-HTSSOP	12598.00/2,000		
TAS5186DDV	296-18071-5-ND	6-Ch., 210W, Digital Amp Power Stage	44-HTSSOP	8.50	7.65	6.79
TAS5261DKD	296-20729-5-ND	315W Mono BTL Digital Amp Power Stage	36-SSOP	8.75	7.88	6.99
TAS5342DDVR	296-22662-1-ND	100W Stereo Digital Amp Power Stage ***NEW!***	44-HTSSOP	5.90	4.72	3.99
TAS5342DDVR	296-22662-2-ND	100W Stereo Digital Amp Power Stage ***NEW!***	44-HTSSOP	7376.00/2,000		
TAS5342LDDVR	296-22876-1-ND	100W Stereo Digital Amp Power Stage ***NEW!***	44-HTSSOP	5.50	4.40	3.72
TAS5342LDDVR	296-22876-2-ND	100W Stereo Digital Amp Power Stage ***NEW!***	44-HTSSOP	6876.00/2,000		
TAS5352DDVR	296-22663-1-ND	125W Stereo Digital Amp Power Stage ***NEW!***	44-HTSSOP	6.20	4.96	4.19
TAS5352DDVR	296-22663-2-ND	125W Stereo Digital Amp Power Stage ***NEW!***	44-HTSSOP	7750.00/2,000		
TAS5414ATDKDMQ1	296-22042-5-ND	4-Ch., Auto Digital Amp ***NEW!***	36-SSOP	15.75	14.70	13.65
TAS5414ATDKDQ1	296-22674-5-ND	4-Ch., Auto Digital Amp ***NEW!***	36-SSOP	15.58	14.03	12.44
TAS5414ATPHDMQ1	296-23097-ND	4-Ch., Auto Digital Amp ***NEW!***	64-HTQFP	15.58	14.03	12.44
TAS5414ATPHDQ1	296-23098-ND	4-Ch., Auto Digital Amp ***NEW!***	64-HTQFP	13.74	12.38	10.98
TAS5414TDKDQ1	296-21640-5-ND	4-Channel Auto Digital Amp	36-SSOP	15.58	14.03	12.44
TAS5414TDKDRMQ1	296-21964-1-ND	4-Channel Auto Digital Amp	36-SSOP	15.75	14.70	13.65
TAS5414TDKDRMQ1	296-21964-2-ND	4-Channel Auto Digital Amp	36-SSOP	6562.50/500		
TAS5424ATDKDMQ1	296-22043-5-ND	4-Ch., Auto Digital Amp ***NEW!***	44-SSOP	16.95	15.82	14.69
TAS5424ATDKDRQ1	296-22067-1-ND	4-Ch., Auto Digital Amp ***NEW!***	44-SSOP	15.08	14.07	13.07
TAS5424ATDKDRQ1	296-22067-2-ND	4-Ch., Auto Digital Amp ***NEW!***	44-SSOP	6281.50/500		
TAS5424TDKDQ1	296-21654-ND	4-Channel Auto Digital Amp	44-SSOP	15.11	14.10	13.10
TAS5601DCAR	296-23099-1-ND	20W Stereo Digital Amp Power Stage ***NEW!***	56-HTSSOP	3.78	3.03	2.36
TAS5601DCAR	296-23099-2-ND	20W Stereo Digital Amp Power Stage ***NEW!***	56-HTSSOP	4284.00/2,000		
TAS5706EVM	296-23158-ND	Evaluation Module for TAS5706 ***NEW!***	—	305.00	—	—
TAS5706PAPR	296-22973-1-ND	20W Stereo Digital Audio Power Amp ***NEW!***	64-HTQFP	6.00	4.80	4.05
TAS5706PAPR	296-22973-2-ND	20W Stereo Digital Audio Power Amp ***NEW!***	64-HTQFP	5438.00/1,000		
THS3001CD	296-1762-5-ND	420MHz Current-Feedback Op Amp	8-SOIC	6.10	4.88	4.12
THS3001EVM	296-10020-ND	Evaluation Module for THS3001	—	50.00	—	—
THS3001HVIDGN	296-19419-5-ND	420MHz Current-Feedback Op Amp	8-MSOP	8.58	7.73	6.85
THS3001ID	296-7507-5-ND	420MHz Current-Feedback Op Amp	8-SOIC	6.30	5.04	4.26
THS3001IDGNR	296-12006-1-ND	420MHz Current-Feedback Op Amp	8-MSOP	6.30	5.04	4.26
THS3001IDGNR	296-12006-2-ND	420MHz Current-Feedback Op Amp	8-MSOP	9765.00/2,500		
THS3061D	296-13502-5-ND	Single, Low Distortion, High Slew-Rate Current-Feedback Amp	8-SOIC	5.90	4.72	3.99
THS3061DGN	296-13613-5-ND	Single, Low Distortion, High Slew-Rate, Current-Feedback Amp	8-MSOP	5.90	4.72	3.99
THS3061EVM	296-20542-ND	Evaluation Module for THS3061	—	50.00	—	—
THS3062D	296-13821-5-ND	Dual, Low Distortion, High Slew-Rate Current-Feedback Amp	8-SOIC	8.50	6.80	5.74
THS3062DDA	296-13503-5-ND	Dual, Low Distortion, High Slew-Rate Current-Feedback Amp	8-SOIC	8.50	6.80	5.74

(Continued)

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AMPLIFIERS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
THS3062DGN	296-13614-5-ND	Dual, Low Distortion, High Slew-Rate, Current-Feedback Amp	8-MSOP	8.50	6.80	5.74
THS3062EVM	296-20543-ND	Evaluation Module for THS3062	—	50.00	—	—
THS3091D	296-16671-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	5.51	4.41	3.43
THS3091DDA	296-15789-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	5.30	4.24	3.58
THS3091EVM	296-16738-ND	Evaluation Module For THS3091	—	50.00	—	—
THS3092D	296-18836-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	7.80	6.24	5.27
THS3092DDA	296-18210-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	8.20	6.56	5.54
THS3092EVM	296-18837-ND	Evaluation Module for THS3092	—	50.00	—	—
THS3095D	296-16672-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	5.10	4.08	3.45
THS3095DDA	296-15790-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	5.50	4.40	3.72
THS3095EVM	296-16739-ND	Evaluation Module For THS3095	—	50.00	—	—
THS3096D	296-18838-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	14-SOIC	8.00	6.40	5.40
THS3096EVM	296-18839-ND	Evaluation Module for THS3096	—	50.00	—	—
THS3096PWP	296-18840-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	14-HTSSOP	8.40	6.72	5.67
THS3110EVM	296-18841-ND	Evaluation Module for THS3110	—	50.00	—	—
THS3110ID	296-15768-5-ND	Low Noise, High Voltage, Current-Feedback Op Amp	8-SOIC	2.93	2.34	1.82
THS3110IDGN	296-15769-5-ND	Low Noise, High Voltage, Current-Feedback Op Amp	8-MSOP	3.38	2.70	2.10
THS3111EVM	296-18842-ND	Evaluation Module for THS3111	—	50.00	—	—
THS3111ID	296-15770-5-ND	Low Noise, High Voltage, Current-Feedback Op Amp	8-SOIC	2.81	2.25	1.75
THS3111IDGN	296-15771-5-ND	Low Noise, High Voltage, Current-Feedback Op Amp	8-MSOP	3.26	2.61	2.03
THS3112EVM	296-20544-ND	Evaluation Module for THS3112	—	50.00	—	—
THS3112ID	296-13333-5-ND	Low Noise, High Speed, Current-Feedback Amp	8-SOIC	4.73	3.78	2.94
THS3112IDDAR	296-13334-1-ND	Low Noise, High Speed Current-Feedback Amp	8-SOIC	5.18	4.14	3.22
THS3112IDDAR	296-13334-2-ND	Low Noise, High Speed Current-Feedback Amp	8-SOIC	7245.00/2,500		
THS3115EVM	296-20545-ND	Evaluation Module for THS3115	—	50.00	—	—
THS3115ID	296-13335-5-ND	Low Noise, High Speed Current-Feedback Amp	14-SOIC	4.84	3.87	3.01
THS3115IPWP	296-13336-5-ND	Low Noise, High Speed Current-Feedback Amp	14-TSSOP	5.29	4.23	3.29
THS3120EVM	296-18843-ND	Evaluation Module for THS3120	—	50.00	—	—
THS3120ID	296-15772-5-ND	Low Noise, High Output Drive, Current-Feedback Op Amp	8-SOIC	3.96	3.17	2.47
THS3120IDGN	296-15773-5-ND	Low Noise, High Output Drive, Current-Feedback Op Amp	8-MSOP	4.39	3.51	2.73
THS3121EVM	296-18844-ND	Evaluation Module for THS3121	—	50.00	—	—
THS3121ID	296-15774-5-ND	Low Noise, High Output Drive, Current-Feedback Op Amp	8-SOIC	4.82	3.86	3.00
THS3121IDGN	296-15775-5-ND	Low Noise, High Output Drive, Current-Feedback Op Amp	8-MSOP	4.82	3.86	3.00
THS3122EVM	296-20546-ND	Evaluation Module for THS3122	—	50.00	—	—
THS3122ID	296-13337-5-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	8-SOIC	5.80	4.64	3.92
THS3122IDDA	296-21979-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	8-SOIC	6.18	4.95	4.18
THS3122IDDAR	296-13338-1-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	8-SOIC	6.18	4.95	4.18
THS3122IDDAR	296-13338-2-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	8-SOIC	9580.00/2,500		
THS3125EVM	296-20547-ND	Evaluation Module for THS3125	—	50.00	—	—
THS3125ID	296-13339-5-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	14-SOIC	5.90	4.72	3.99
THS3125IPWP	296-13340-5-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	14-TSSOP	6.28	5.03	4.24
THS3201D	296-15216-5-ND	1.8GHz Low Distortion, Current-Feedback Amp	8-SOIC	4.73	3.78	2.94
THS3201DBVT	296-15217-1-ND	1.8GHz Low Distortion, Current-Feedback Amp	SOT-23-5	5.29	4.23	3.29
THS3201DBVT	296-15217-2-ND	1.8GHz Low Distortion, Current-Feedback Amp	SOT-23-5	781.50/250		
THS3201DGK	296-16776-5-ND	1.8GHz Low Distortion, Current-Feedback Amp	8-MSOP	4.73	3.78	2.94
THS3201DGN	296-15218-5-ND	1.8GHz Low Distortion, Current-Feedback Amp	8-MSOP	4.73	3.78	2.94
THS3201EVM	296-18845-ND	Evaluation Module for THS3201	—	50.00	—	—
THS3201MDGNREP	296-18133-1-ND	1.8GHz Low Distortion Current-Feedback Amp ***NEW!***	8-MSOP	7.14	5.72	4.82
THS3201MDGNREP	296-18133-2-ND	1.8GHz Low Distortion Current-Feedback Amp ***NEW!***	8-MSOP	11067.50/2,500		
THS3202D	296-13655-5-ND	2GHz Current-Feedback Amp	8-SOIC	5.80	4.64	3.92
THS3202DGK	296-16777-5-ND	2GHz Current-Feedback Amp	8-MSOP	5.80	4.64	3.92
THS3202DGN	296-13656-5-ND	2GHz Current-Feedback Amp	8-MSOP	5.80	4.64	3.92
THS3202EVM	296-20548-ND	Evaluation Module for THS3202	—	50.00	—	—
THS4001CD	296-1763-5-ND	High Speed, Low Power Op Amp	8-SOIC	4.50	3.60	2.80
THS4001EVM	296-10021-ND	Evaluation Module for THS4001	—	50.00	—	—
THS4001ID	296-1764-5-ND	High Speed, Low Power Op Amp	8-SOIC	4.73	3.78	2.94
THS4011CD	296-2404-5-ND	290MHz High Speed Amp	8-SOIC	3.26	2.61	2.03
THS4011CDGNR	296-7508-1-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	3.71	2.97	2.31
THS4011CDGNR	296-7508-2-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	5197.50/2,500		
THS4011EVM	296-10022-ND	Evaluation Module for THS4011	—	50.00	—	—
THS4011ID	296-7509-5-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-SOIC	3.49	2.79	2.17
THS4011IDGNR	296-7510-1-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	3.94	3.15	2.45
THS4011IDGNR	296-7510-2-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	5512.50/2,500		
THS4012CD	296-7511-5-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-SOIC	5.29	4.23	3.29
THS4012CDGN	296-10023-5-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	5.10	4.08	3.45
THS4012CDGNR	296-10023-1-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	5.10	4.08	3.45
THS4012CDGNR	296-10023-2-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	7905.00/2,500		
THS4012EVM	296-10024-ND	Evaluation Module for THS4012	—	50.00	—	—
THS4012ID	296-7513-5-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-SOIC	5.51	4.41	3.43
THS4012IDGN	296-10025-5-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	5.30	4.24	3.58
THS4012IDGNR	296-10025-1-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	5.30	4.24	3.58
THS4012IDGNR	296-10025-2-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	8215.00/2,500		
THS4021CD	296-2405-5-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-SOIC	5.20	4.16	3.51
THS4021CDGNR	296-10026-1-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-MSOP	5.20	4.16	3.51
THS4021CDGNR	296-10026-2-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-MSOP	8060.00/2,500		
THS4021EVM	296-10027-ND	Evaluation Module for THS4021	—	50.00	—	—
THS4021ID	296-7516-5-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-SOIC	5.40	4.32	3.65
THS4021IDGNR	296-7517-1-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-MSOP	5.40	4.32	3.65
THS4021IDGNR	296-7517-2-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-MSOP	8370.00/2,500		
THS4022CDGNR	296-7518-1-ND	Dual 350MHz Low-Noise Voltage-Feedback Op Amp	8-MSOP	7.30	5.84	4.93
THS4022CDGNR	296-7518-2-ND	Dual 350MHz Low-Noise Voltage-Feedback Op Amp	8-MSOP	11315.00/2,500		
THS4022EVM	296-10028-ND	Evaluation Module for THS4022	—	50.00	—	—
THS4022ID	296-7519-5-ND	Dual 350MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	7.50	6.00	5.07
THS4022IDGNR	296-7520-1-ND	Dual 350MHz Low-Noise Voltage-Feedback Op Amp	8-MSOP	7.50	6.00	5.07
THS4022IDGNR	296-7520-2-ND	Dual 350MHz Low-Noise Voltage-Feedback Op Amp	8-MSOP	11625.00/2,500		
THS4031CD	296-2406-5-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	3.71	2.97	2.31
THS4031CDGNR	296-7521-1-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	4.16	3.33	2.59
THS4031CDGNR	296-7521-2-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	5827.50/2,500		
THS4031EVM	296-10029-ND	Evaluation Module for THS4031	—	50.00	—	—
THS4031ID	296-7522-5-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	3.94	3.15	2.45
THS4031IDGN	296-10030-5-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	4.39	3.51	2.73
THS4031IDGNR	296-10030-1-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	4.39	3.51	2.73
THS4031IDGNR	296-10030-2-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	6142.50/2,500		
THS4032CD	296-7524-5-ND	Dual 100MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	5.20	4.16	3.51
THS4032EVM	296-10031-ND	Evaluation Module for THS4032	—	50.00	—	—
THS4032ID	296-7525-5-ND	Dual 100MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	5.40	4.32	3.65
THS4032IDGNR	296-7526-1-ND	Dual 100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	5.80	4.64	3.92
THS4032IDGNR	296-7526-2-ND	Dual 100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	8990.00/2,500		
THS4041CD	296-2407-5-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-SOIC	3.71	2.97	2.31
THS4041CDGNR	296-7527-1-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	3.71	2.97	2.31
THS4041CDGNR	296-7527-2-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	5197.50/2,500		
THS4041EVM	296-10032-ND	Evaluation Module for THS4041	—	50.00	—	—
THS4041ID	296-7528-5-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-SOIC	3.94	3.15	2.45
THS4041IDGN	296-10033-5-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	3.94	3.15	2.45
THS4041IDGNR	296-10033-1-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	3.94	3.15	2.45
THS4041IDGNR	296-10033-2-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	5512.50/2,500		
THS4042CD	296-7530-5-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-SOIC	6.50	5.20	4.39
THS4042CDGNR	296-7531-1-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	6.50	5.20	4.39
THS4042CDGNR	296-7531-2-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	10075.00/2,500		
THS4042EVM	296-10034-ND	Evaluation Module for THS4042	—	50.00	—	—
THS4042ID	296-7532-5-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-SOIC	6.70	5.36	4.53
THS4042IDGNR	296-7533-1-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	6.70	5.36	4.53
THS4042IDGNR	296-7533-2-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	10385.00/2,500		
THS4051CD	296-2408-5-ND	70MHz High Speed Amp	8-SOIC	2.25	1.80	1.35
THS4051CDGNR	296-7534-1-ND	70MHz Voltage-Feedback Op Amp	8-MSOP	2.45	1.97	1.53
THS4051CDGNR	296-7534-2-ND	70MHz Voltage-Feedback Op Amp	8-MSOP	3432.50/2,500		
THS4051EVM	296-10035-ND	Evaluation Module for THS4051	—	50.00	—	—
THS4051ID	296-7535-5-ND	70MHz Voltage-Feedback Op Amp	8-SOIC	2.25	1.80	1.40
THS4051IDGNR	296-7536-1-ND	70MHz Voltage-Feedback Op Amp	8-MSOP	2.68	2.15	1.67
THS4051IDGNR	296-7536-2-ND	70MHz Voltage-Feedback Op Amp	8-MSOP	3747.50/2,500		
THS4052CD	296-7537-5-ND	Dual 70MHz Volt.-Feedback Op Amp	8-SOIC	3.11	2.49	1.94
THS4052CDGNR	296-7538-1-ND	Dual 70MHz Volt.-Feedback Op Amp	8-MSOP	3.53	2.83	2.20
THS4052CDGNR	296-7538-2-ND	Dual 70MHz Volt.-Feedback Op Amp	8-MSOP	4945.00/2,500		
THS4052EVM	296-10036-ND	Evaluation Module for THS4052	—	50.00	—	—
THS4052ID	296-7539-5-ND	Dual 70MHz Volt.-Feedback Op Amp	8-SOIC	3.31	2.65	2.06
THS4052IDGNR	296-7540-1-ND	Dual 70MHz Volt.-Feedback Op Amp	8-MSOP	3.74	2.99	2.33

(Continued)

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AMPLIFIERS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
THS4052IDGNR	296-7540-2-ND	Dual 70MHz Volt.-Feedback Op Amp	8-MSOP	5230.00/2,500		
THS4061CD	296-2409-5-ND	180MHz HS, Voltage-Feedback Amp	8-SOIC	3.15	2.52	1.96
THS4061CDGNR	296-13341-1-ND	180MHz HS, Voltage-Feedback Amp	8-MSOP	3.15	2.52	1.96
THS4061CDGNR	296-13341-2-ND	180MHz HS, Voltage-Feedback Amp	8-MSOP	4410.00/2,500		
THS4061EVM	296-10037-ND	Evaluation Module for THS4061	—	50.00	—	—
THS4061ID	296-7541-5-ND	180MHz HS, Voltage Feedback Amp	8-SOIC	3.38	2.70	2.10
THS4061IDGNR	296-13342-1-ND	180MHz HS, Voltage-Feedback Amp	8-MSOP	3.38	2.70	2.10
THS4061IDGNR	296-13342-2-ND	180MHz HS, Voltage Feedback Amp	8-MSOP	4725.00/2,500		
THS4062CD	296-7542-5-ND	Dual 180MHz Volt.-Feedback Op Amp	8-SOIC	4.39	3.51	2.73
THS4062CDGN	296-7543-5-ND	Dual 180MHz Volt.-Feedback Op Amp	8-MSOP	4.39	3.51	2.73
THS4062EVM	296-10038-ND	Evaluation Module for THS4062	—	50.00	—	—
THS4062ID	296-7544-5-ND	Dual 180MHz Volt.-Feedback Op Amp	8-SOIC	4.61	3.69	2.87
THS4062IDGN	296-7545-5-ND	Dual 180MHz Volt.-Feedback Op Amp	8-MSOP	4.61	3.69	2.87
THS4062IDGNR	296-7546-1-ND	Dual 180MHz Volt.-Feedback Op Amp	8-MSOP	4.61	3.69	2.87
THS4062IDGNR	296-7546-2-ND	Dual 180MHz Volt.-Feedback Op Amp	8-MSOP	6457.50/2,500		
THS4081CD	296-2410-5-ND	175MHz LP Volt.-Feedback Op Amp	8-SOIC	2.70	2.16	1.68
THS4081CDGNR	296-7547-1-ND	175MHz LP Volt.-Feedback Op Amp	8-MSOP	3.15	2.52	1.96
THS4081CDGNR	296-7547-2-ND	175MHz LP Volt.-Feedback Op Amp	8-MSOP	4410.00/2,500		
THS4081ID	296-7548-5-ND	175MHz LP Volt.-Feedback Op Amp	8-SOIC	2.93	2.34	1.82
THS4081IDGN	296-10039-5-ND	175MHz LP Volt.-Feedback Op Amp	8-MSOP	3.38	2.70	2.10
THS4081IDGNR	296-10039-1-ND	175MHz LP Volt.-Feedback Op Amp	8-MSOP	3.38	2.70	2.10
THS4081IDGNR	296-10039-2-ND	175MHz LP Volt.-Feedback Op Amp	8-MSOP	4725.00/2,500		
THS4082CD	296-7550-5-ND	Dual 175MHz LP V-Feedback Op Amp	8-SOIC	4.28	3.42	2.66
THS4082CDGNR	296-7551-1-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	4.73	3.78	2.94
THS4082CDGNR	296-7551-2-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	6615.00/2,500		
THS4082EVM	296-10040-ND	Evaluation Module for THS4082	—	50.00	—	—
THS4082ID	296-7552-5-ND	Dual 175MHz LP V-Feedback Op Amp	8-SOIC	4.50	3.60	2.80
THS4082IDGNR	296-7553-1-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	4.95	3.96	3.08
THS4082IDGNR	296-7553-2-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	6930.00/2,500		
THS4120EVM	296-12054-ND	Evaluation Module for THS4120	—	50.00	—	—
THS4120ID	296-11983-5-ND	Fully Differential I/O CMOS Amp with Shutdown	8-SOIC	4.50	3.60	2.80
THS4120IDGK	296-18846-5-ND	Fully Differential I/O CMOS Amp with Shutdown	8-MSOP	4.50	3.60	2.80
THS4120IDGNR	296-12493-1-ND	HS, Fully Differential I/O CMOS Amp	8-MSOP	4.50	3.60	2.80
THS4120IDGNR	296-12493-2-ND	HS, Fully Differential I/O CMOS Amp	8-MSOP	6300.00/2,500		
THS4120IDR	296-11983-1-ND	Fully Differential I/O Out CMOS Amp with Shutdown	8-SOIC	4.50	3.60	2.80
THS4120IDR	296-11983-2-ND	Fully Differential I/O Out CMOS Amp with Shutdown	8-SOIC	6300.00/2,500		
THS4121CD	296-10041-5-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-SOIC	4.28	3.42	2.66
THS4121EVM	296-13560-ND	Evaluation Module for THS4121	—	50.00	—	—
THS4121ID	296-10042-5-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-SOIC	4.50	3.60	2.80
THS4121IDGK	296-17555-5-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-MSOP	4.50	3.60	2.80
THS4121IDGNR	296-13343-1-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-MSOP	4.50	3.60	2.80
THS4121IDGNR	296-13343-2-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-MSOP	6300.00/2,500		
THS4130EVM	296-10043-ND	Evaluation Module for THS4130	—	50.00	—	—
THS4130ID	296-7554-5-ND	HS, Low Noise Differential I/O Amp	8-SOIC	5.80	4.64	3.92
THS4130IDGK	296-18847-5-ND	HS, Low Noise Differential I/O Amp	8-MSOP	5.80	4.64	3.92
THS4130IDGNR	296-10044-1-ND	HS, Low Noise Differential I/O Amp	8-MSOP	6.20	4.96	4.19
THS4130IDGNR	296-10044-2-ND	HS, Low Noise Differential I/O Amp	8-MSOP	9610.00/2,500		
THS4131EVM	296-10045-ND	Evaluation Module for THS4131	—	50.00	—	—
THS4131ID	296-10046-5-ND	150MHz Fully Differential I/O Amp	8-SOIC	5.70	4.56	3.85
THS4131IDGK	296-17881-5-ND	150MHz Fully Differential I/O Amp	8-MSOP	5.70	4.56	3.85
THS4131IDGN	296-21965-5-ND	150MHz Fully Differential I/O Amp	8-MSOP	6.10	4.88	4.12
THS4131IDGNR	296-10047-1-ND	150MHz Fully Differential I/O Amp	8-MSOP	6.10	4.88	4.12
THS4131IDGNR	296-10047-2-ND	150MHz Fully Differential I/O Amp	8-MSOP	9455.00/2,500		
THS4140EVM	296-10048-ND	Evaluation Module for THS4140	—	50.00	—	—
THS4140ID	296-7555-5-ND	Diff. In/Out Op Amp with Shutdown	8-SOIC	7.00	5.60	4.73
THS4140IDGK	296-16778-5-ND	Diff. In/Out Op Amp with Shutdown	8-MSOP	7.00	5.60	4.73
THS4140IDGNR	296-10049-1-ND	Diff. In/Out Op Amp with Shutdown	8-MSOP	7.00	5.60	4.73
THS4140IDGNR	296-10049-2-ND	Diff. In/Out Op Amp with Shutdown	8-MSOP	10850.00/2,500		
THS4141EVM	296-10050-ND	Evaluation Module for THS4141	—	50.00	—	—
THS4141ID	296-7556-5-ND	HS Fully Differential I/O Amp	8-SOIC	7.00	5.60	4.73
THS4141IDGK	296-16779-5-ND	HS Fully Differential I/O Amp	8-MSOP	7.00	5.60	4.73
THS4141IDGNR	296-12302-1-ND	HS Fully Differential I/O Amp	8-MSOP	7.00	5.60	4.73
THS4141IDGNR	296-12302-2-ND	HS Fully Differential I/O Amp	8-MSOP	10850.00/2,500		
THS4150EVM	296-10051-ND	Evaluation Module for THS4150	—	50.00	—	—
THS4150ID	296-10052-5-ND	High Speed, Fully Differential I/O Amp with Shutdown	8-SOIC	9.60	7.68	6.48
THS4150IDGK	296-16780-5-ND	High Speed, Fully Differential I/O Amp with Shutdown	8-MSOP	9.60	7.68	6.48
THS4150IDGNR	296-13344-1-ND	High Speed, Fully Differential I/O Amp with Shutdown	8-MSOP	9.60	7.68	6.48
THS4150IDGNR	296-13344-2-ND	High Speed, Fully Differential I/O Amp with Shutdown	8-MSOP	14880.00/2,500		
THS4151EVM	296-10053-ND	Evaluation Module for THS4151	—	50.00	—	—
THS4151ID	296-10054-5-ND	High Speed Fully Diff. I/O Op Amp	8-SOIC	9.60	7.68	6.48
THS4151IDGK	296-16781-5-ND	High Speed Fully Diff. I/O Op Amp	8-MSOP	9.60	7.68	6.48
THS4151IDGNR	296-12303-1-ND	High Speed Fully Diff. I/O Op Amp	8-MSOP	9.60	7.68	6.48
THS4151IDGNR	296-12303-2-ND	High Speed Fully Diff. I/O Op Amp	8-MSOP	14880.00/2,500		
THS4211D	296-13790-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SOIC	4.28	3.42	2.66
THS4211DGK	296-16709-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	4.28	3.42	2.66
THS4211DGN	296-13657-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	4.28	3.42	2.66
THS4211DRBT	296-16710-1-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SON	4.50	3.60	2.80
THS4211DRBT	296-16710-2-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SON	665.00/250		
THS4211EVM	296-20549-ND	Evaluation Module for THS4211	—	50.00	—	—
THS4211EVM-UG	296-20550-ND	Eval. Module for THS4211 Unity Gain	—	50.00	—	—
THS4215D	296-13791-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SOIC	4.28	3.42	2.66
THS4215DGK	296-16711-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	4.28	3.42	2.66
THS4215DGN	296-13658-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	4.28	3.42	2.66
THS4215DRBR	296-16712-1-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SON	4.28	3.42	2.66
THS4215DRBR	296-16712-2-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SON	7182.00/3,000		
THS4215EVM	296-20551-ND	Evaluation Module for THS4215	—	50.00	—	—
THS4221D	296-14194-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-SOIC	3.26	2.61	2.03
THS4221DBVR	296-15112-1-ND	Low Distortion, High Speed, R/R, Output Op Amp	SOT-23-5	3.26	2.61	2.03
THS4221DBVR	296-15112-2-ND	Low Distortion, High Speed, R/R, Output Op Amp	SOT-23-5	5481.00/3,000		
THS4221DGK	296-16782-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	3.26	2.61	2.03
THS4221DGN	296-14402-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-HTSSOP	3.26	2.61	2.03
THS4221EVM	296-18848-ND	Evaluation Module for THS4221	—	50.00	—	—
THS4222D	296-13822-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-SOIC	4.28	3.42	2.66
THS4222DGK	296-16783-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	4.28	3.42	2.66
THS4222DGN	296-13638-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	4.28	3.42	2.66
THS4222EVM	296-20552-ND	Evaluation Module for THS4222	—	50.00	—	—
THS4225D	296-14195-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-SOIC	3.26	2.61	2.03
THS4225DGK	296-16784-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	3.26	2.61	2.03
THS4225DGN	296-14403-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-HTSSOP	3.26	2.61	2.03
THS4225EVM	296-18849-ND	Evaluation Module for THS4225	—	50.00	—	—
THS4226DGQ	296-13639-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	4.28	3.42	2.66
THS4226EVM	296-18850-ND	Evaluation Module for THS4226	—	50.00	—	—
THS4271D	296-13823-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SOIC	5.06	4.05	3.15
THS4271DGK	296-16785-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.06	4.05	3.15
THS4271DGN	296-13659-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.51	4.41	3.43
THS4271DRBR	296-15262-1-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SON	5.06	4.05	3.15
THS4271DRBR	296-15262-2-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SON	8505.00/3,000		
THS4271DRBT	296-15405-1-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SON	5.00	4.00	3.38
THS4271DRBT	296-15405-2-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SON	812.50/250		
THS4271EVM	296-20553-ND	Evaluation Module for THS4271	—	50.00	—	—
THS4271EVM-UG	296-20554-ND	Eval. Module for THS4271 Unity Gain	—	50.00	—	—
THS4271MDGNREP	296-18134-1-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	9.32	7.46	6.30
THS4271MDGNREP	296-18134-2-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	14445.00/2,500		
THS4275D	296-13824-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SOIC	5.18	4.14	3.22
THS4275DGK	296-16786-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.18	4.14	3.22
THS4275DGN	296-13660-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.00	4.00	3.38
THS4275DRBR	296-15263-1-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SON	5.18	4.14	3.22
THS4275DRBR	296-15263-2-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SON	8694.00/3,000		
THS4275DRBT	296-15406-1-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SON	5.10	4.08	3.45
THS4275DRBT	296-15406-2-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SON	828.75/250		
THS4275EVM	296-20555-ND	Evaluation Module for THS4275	—	50.00	—	—
THS4281D	296-16999-5-ND	LP, HS, R/R I/O Voltage Feedback Op Amp	8-SOIC	2.25	1.80	1.35
THS4281DBVT	296-17000-1-ND	LP, HS, R/R I/O Voltage Feedback Op Amp	SOT-23-5	2.25	1.80	1.40
THS4281DBVT	296-17000-2-ND	LP, HS, R/R I/O Voltage Feedback Op Amp	SOT-23-5	332.50/250		
THS4281DGK	296-17001-5-ND	LP, HS, R/R I/O Voltage Feedback Op Amp	8-MSOP	2.25	1.80	1.35
THS4281EVM	296-18851-ND	Evaluation Module for THS4281	—	50.00	—	—
THS4302EVM	296-20556-ND	Evaluation Module for THS4302	—	50.00	—	—
THS4302RGTR	296-14048-1-ND	Wideband Fixed-Gain Amp	16-RGT	5.18	4.14	3.22
THS4302RGTR	296-14048-2-ND	Wideband Fixed-Gain Amp	16-RGT	8694.00/3,000		
THS4303RGTT	296-16658-1-ND	Wideband Fixed-Gain Amp	16-RGT	5.18	4.14	3.22
THS4303EVM	296-18852-ND	Evaluation Module for THS4303	—	50.00	—	—
THS4303RGTT	296-16658-2-ND	Wideband Fixed-Gain Amp	16-RGT	764.75/250		
THS4304D	296-17250-5-ND	Wideband Op Amp	8-SOIC	3.94	3.15	2.45
THS4304DBVEVM	296-18853-ND	Evaluation Module for THS4304DBV	—	50.00	—	—
THS4304DBVT	296-17251-1-ND	Wideband Op Amp	SOT-23-5	4.39	3.51	2.73
THS4304DBVT	296-17251-2-ND	Wideband Op Amp	SOT-23-5	648.50/250		
THS4304DGK	296-17252-5-ND	Wideband Op Amp	8-MSOP	3.94	3.15	2.45
THS4304DGKEVM	296-18854-ND	Evaluation Module for THS4304DGK	—	50.00	—	—
THS4500EVM	296-20557-ND	Evaluation Module for THS4500	—	50.00	—	—
THS4500ID	296-12935-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	7.50	6.00	5.07
THS4500IDGK	296-16787-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	7.50	6.00	5.07
THS4500IDGN	296-13045-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	7.50	6.00	5.07
THS4501EVM	296-20558-ND	Evaluation Module for THS4501	—	50.00	—	—
THS4501ID	296-12936-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	7.50	6.00	5.07
THS4501IDGK	296-16788-5-ND	Wideband LowDistortion Fully Differential Amp	8-MSOP	7.50	6.00	5.07
THS4501IDGN	296-13046-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	7.50	6.00	5.07

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
THS4502EVM	296-20559-ND	Evaluation Module for THS4502	—	50.00	—	—
THS4502ID	296-12937-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	8.20	6.56	5.54
THS4502IDGK	296-16789-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	8.20	6.56	5.54
THS4502IDGN	296-13047-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	8.20	6.56	5.54
THS4503EVM	296-20560-ND	Evaluation Module for THS4503	—	50.00	—	—
THS4503ID	296-12938-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	8.20	6.56	5.54
THS4503IDGK	296-16790-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	8.20	6.56	5.54
THS4503IDGN	296-13048-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	8.20	6.56	5.54
THS4503MDGNREP	296-19510-1-ND	Wideband, Low Distortion Fully Differential Amp ***NEW!***	8-MSOP	11.61	10.46	9.28
THS4503MDGNREP	296-19510-2-ND	Wideband, Low Distortion Fully Differential Amp ***NEW!***	8-MSOP	21172.50/2,500		
THS4504D	296-15618-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	3.74	2.99	2.33
THS4504DGK	296-16796-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	3.74	2.99	2.33
THS4504DGN	296-15619-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	3.74	2.99	2.33
THS4504EVM	296-20561-ND	Evaluation Module for THS4504	—	50.00	—	—
THS4505D	296-15620-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	3.74	2.99	2.33
THS4505DGK	296-16791-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	3.74	2.99	2.33
THS4505DGN	296-15621-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	3.74	2.99	2.33
THS4505EVM	296-20562-ND	Evaluation Module for THS4505	—	50.00	—	—
THS4508EVM	296-21085-ND	Evaluation Module for THS4508	—	50.00	—	—
THS4508RGTT	296-19324-1-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-QFN	8.70	6.96	5.88
THS4508RGTT	296-19324-2-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-QFN	1413.75/250		
THS4509EVM	296-18855-ND	Evaluation Module for THS4509	—	50.00	—	—
THS4509RGTT	296-17730-1-ND	Wideband Low Distortion Fully Differential Amp	16-QFN	8.30	6.64	5.61
THS4509RGTT	296-17730-2-ND	Wideband Low Distortion Fully Differential Amp	16-QFN	1348.75/250		
THS4511EVM	296-21086-ND	Evaluation Module for THS4511	—	50.00	—	—
THS4511RGTT	296-19325-1-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-QFN	7.60	6.08	5.13
THS4511RGTT	296-19325-2-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-QFN	1235.00/250		
THS4513EVM	296-21087-ND	Evaluation Module for THS4513	—	50.00	—	—
THS4513RGTT	296-18594-1-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-QFN	7.20	5.76	4.86
THS4513RGTT	296-18594-2-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-QFN	1170.00/250		
THS4520RGTT	296-20774-1-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-QFN	5.02	4.02	3.13
THS4520RGTT	296-20774-2-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-QFN	741.50/250		
THS4601D	296-12495-5-ND	Wideband, FET-Input High Speed Op Amp	8-SOIC	15.08	14.07	13.07
THS4601EVM	296-20563-ND	Evaluation Module for THS4601	—	50.00	—	—
THS4601IDDA	296-16691-ND	Wideband, FET-Input High Speed Op Amp	8-SOIC	15.08	14.07	13.07
THS4631D	296-17626-5-ND	High Volt. High Slew Rate, Wideband FET-Input Op Amp	8-SOIC	7.50	6.00	5.07
THS4631DDA	296-17674-5-ND	High Volt. High Slew Rate, Wideband FET-Input Op Amp	8-SOIC	7.90	6.32	5.34
THS4631DDAEVM	296-21088-ND	Evaluation Module for THS4631DDA	—	50.00	—	—
THS4631DGN	296-17675-5-ND	High Volt. High Slew Rate, Wideband FET-Input Op Amp	8-MSOP	7.90	6.32	5.34
THS4631DGNEVM	296-21089-ND	Evaluation Module for THS4631DGN	—	50.00	—	—
THS6062CDGN	296-10068-5-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	5.29	4.23	3.29
THS6062CDGNR	296-10068-1-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	5.29	4.23	3.29
THS6062CDGNR	296-10068-2-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	7402.50/2,500		
THS6062ID	296-10070-5-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-SOIC	5.29	4.23	3.29
THS6062IDGN	296-10072-5-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	5.29	4.23	3.29
THS6062IDGNR	296-10072-1-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	5.29	4.23	3.29
THS6062IDGNR	296-10072-2-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	7402.50/2,500		
THS6072CDGNR	296-10073-1-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	5.02	4.02	3.13
THS6072CDGNR	296-10073-2-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	7025.00/2,500		
THS6072ID	296-10075-5-ND	High Speed, Low Power ADSL Differential Receiver	8-SOIC	5.02	4.02	3.13
THS6072IDGNR	296-10076-1-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	5.02	4.02	3.13
THS6072IDGNR	296-10076-2-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	7025.00/2,500		
THS7001CPWP	296-2411-5-ND	70MHz, HS Prog. Gain Amp	20-HTSSOP	9.40	7.52	6.35
THS7001EVM	296-10077-ND	Evaluation Module for THS7001	—	50.00	—	—
THS7001IPWP	296-7048-5-ND	70MHz, HS Prog. Gain Amp	20-HTSSOP	9.40	7.52	6.35
THS7002CPWP	296-2412-5-ND	Dual, 70MHz, HS Prog. Gain Amp	28-HTSSOP	11.16	10.05	8.92
THS7002EVM	296-10078-ND	Evaluation Module for THS7002	—	50.00	—	—
THS7002IPWP	296-7049-5-ND	Dual, 70MHz, HS Prog. Gain Amp	28-HTSSOP	11.16	10.05	8.92
THS7303EVM	296-21090-ND	Evaluation Module for THS7303	—	152.00	—	—
THS7303PW	296-19326-5-ND	3-Channel, Low Power Video Amp	20-TSSOP	3.71	2.97	2.31
THS7313EVM	296-21091-ND	Evaluation Module for THS7313	—	152.00	—	—
THS7313PW	296-19327-5-ND	3-Channel, LP SDTV Video Amp	20-TSSOP	2.70	2.16	1.68
THS7314D	296-21415-5-ND	3-Channel SDTV Video Amp	8-SOIC	1.20	1.00	.80
THS7315D	296-22404-5-ND	3-Channel SDTV Video Amp ***NEW!***	8-SOIC	1.25	1.00	.75
THS7316D	296-21671-5-ND	3-Channel HDTV Video Amp	8-SOIC	1.38	1.10	.83
THS7318YZFR	296-21494-1-ND	3-Ch. Low Power EDTV/SDTV Video Line Driver	9-DSBGA	7.50	6.00	5.07
THS7318YZFR	296-21494-2-ND	3-Ch. Low Power EDTV/SDTV Video Line Driver	9-DSBGA	13950.00/3,000		
THS7327PHPR	296-20775-1-ND	3-Channel RGBHV Video Buffer	48-HTQFP	6.70	5.36	4.53
THS7327PHPR	296-20775-2-ND	3-Channel RGBHV Video Buffer	48-HTQFP	4188.00/1,000		
THS7347IPHP	296-21966-5-ND	3-Ch., RGBHV Video Buffer	48-HTQFP	5.50	4.40	3.72
THS7353EVM	296-21092-ND	Evaluation Module for THS7353	—	152.00	—	—
THS7353PW	296-19328-5-ND	3-Channel Low Power Video Buffer	20-TSSOP	3.71	2.97	2.31
THS7530EVM	296-18858-ND	Evaluation Module for THS7530	—	50.00	—	—
THS7530PWP	296-15181-5-ND	High Speed, Differential, Continously Variable Gain Amp	14-HTSSOP	7.70	6.16	5.20
THS8200PFP	296-15622-ND	All-Format Oversampled Component Video/PC Graphics D/A System	80-TQFP	10.00	9.00	7.98
THS9000DRWT	296-19707-1-ND	50MHz to 400MHz Cascadeable Amp	6-SON	2.59	2.07	1.61
THS9000DRWT	296-19707-2-ND	50MHz to 400MHz Cascadeable Amp	6-SON	382.50/250		
THS9000EVM	296-18859-ND	Evaluation Module for THS9000	—	50.00	—	—
THS9001DBVT	296-16645-1-ND	50 to 350MHz Cascadeable Amp	SOT-23-6	2.59	2.07	1.61
THS9001DBVT	296-16645-2-ND	50 to 350MHz Cascadeable Amp	SOT-23-6	382.50/250		
THS9001EVM	296-18860-ND	Evaluation Module for THS9001	—	50.00	—	—
TL022CP	296-7142-5-ND	Dual, Low Power Op Amp	8-Dip	1.25	1.00	.75
TL026CD	296-11818-5-ND	Diff. High Frequency Amp with AGC	8-SOIC	1.25	1.00	.75
TL026CP	296-11819-5-ND	Diff. High Frequency Amp with AGC	8-Dip	1.25	1.00	.75
TL031CD	296-7143-5-ND	Precision LP JFET Op Amp	8-SOIC	.87	.73	.58
TL031CP	296-7144-5-ND	Precision LP JFET Op Amp	8-Dip	.87	.73	.58
TL032ACD	296-7145-5-ND	Dual LP Enhanced JFET Op Amp	8-SOIC	2.13	1.70	1.28
TL032ACDR	296-14979-1-ND	Dual LP Enhanced JFET Op Amp	8-SOIC	2.13	1.70	1.28
TL032ACDR	296-14979-2-ND	Dual LP Enhanced JFET Op Amp	8-SOIC	2720.00/2,500		
TL032ACP	296-7146-5-ND	Dual LP Enhanced JFET Op Amp	8-Dip	2.13	1.70	1.28
TL032AID	296-12939-5-ND	Dual LP Enhanced JFET Op Amp	8-SOIC	1.88	1.50	1.13
TL032AIP	296-7147-5-ND	Dual LP Enhanced JFET Op Amp	8-Dip	2.13	1.70	1.28
TL032CD	296-7148-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1.35	1.13	.90
TL032CDR	296-7148-1-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1.35	1.13	.90
TL032CDR	296-7148-2-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1462.50/2,500		
TL032CP	296-7149-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-Dip	1.35	1.13	.90
TL032ID	296-7150-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1.25	1.00	.75
TL032IDR	296-14980-1-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1.25	1.00	.75
TL032IDR	296-14980-2-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1600.00/2,500		
TL032IP	296-7151-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-Dip	1.25	1.00	.75
TL034ACD	296-7152-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	3.71	2.97	2.31
TL034ACDR	296-14981-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	3.71	2.97	2.31
TL034ACDR	296-14981-2-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	5197.50/2,500		
TL034AID	296-7153-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	4.05	3.24	2.52
TL034AIDR	296-7153-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	4.05	3.24	2.52
TL034AIDR	296-7153-2-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	5670.00/2,500		
TL034CD	296-7154-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1.25	1.00	.75
TL034CDR	296-14982-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1.25	1.00	.75
TL034CDR	296-14982-2-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1600.00/2,500		
TL034CN	296-7155-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-Dip	1.25	1.00	.75
TL034CNSR	296-13346-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SON	1.25	1.00	.75
TL034CNSR	296-13346-2-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SON	1300.00/2,000		
TL034CPW	296-23295-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp ***NEW!***	14-TSSOP	1.25	1.00	.75
TL034ID	296-7157-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1.25	1.00	.75
TL051CD	296-7159-5-ND	Precision Enhanced JFET Op Amp	8-SOIC	1.26	1.05	.84
TL052ACD	296-7160-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.63	1.30	.98
TL052ACDR	296-14983-1-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.63	1.30	.98
TL052ACDR	296-14983-2-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	2080.00/2,500		
TL052ACP	296-7161-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-Dip	1.63	1.30	.98
TL052CD	296-7162-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.75	1.40	1.05
TL052CP	296-7163-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-Dip	1.75	1.40	1.05
TL052CPSR	296-13347-1-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOP	1.75	1.40	1.05
TL052CPSR	296-13347-2-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOP	1820.00/2,000		
TL052ID	296-7164-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.88	1.50	1.13
TL052IDR	296-14984-1-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.88	1.50	1.13
TL052IDR	296-14984-2-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	2400.00/2,500		
TL052IP	296-17224-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-Dip	1.88	1.50	1.13
TL054ACD	296-7165-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	5.51	4.41	3.43
TL054ACN	296-7166-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-Dip	5.51	4.41	3.43
TL054AIDR	296-7167-1-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	5.00	4.00	3.38
TL054AIDR	296-7167-2-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	7750.00/2,500		

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL054CD	296-7168-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	1.80	1.44	1.08
TL054CN	296-7169-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-Dip	1.80	1.44	1.08
TL054CNSR	296-13348-1-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOP	1.80	1.44	1.08
TL054CNSR	296-13348-2-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOP	1872.00/2,000		
TL054IN	296-12940-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-Dip	2.03	1.62	1.22
TL061ACD	296-7171-5-ND	Low Power JFET Op Amp	8-SOIC	.75	.63	.50
TL061ACDR	296-14985-1-ND	Low Power JFET Op Amp	8-SOIC	.75	.63	.50
TL061ACDR	296-14985-2-ND	Low Power JFET Op Amp	8-SOIC	812.50/2,500		
TL061ACP	296-7172-5-ND	Low Power JFET Op Amp	8-Dip	.75	.63	.50
TL061CD	296-12941-5-ND	Low Power JFET Op Amp	8-SOIC	.56	.42	.32
TL061CP	296-12942-5-ND	Low Power JFET Op Amp	8-Dip	.56	.42	.32
TL061ID	296-7173-5-ND	Low Power JFET Op Amp	8-SOIC	.96	.72	.54
TL061IDR	296-14986-1-ND	Low Power JFET Op Amp	8-SOIC	.96	.72	.54
TL061IDR	296-14986-2-ND	Low Power JFET Op Amp	8-SOIC	780.00/2,500		
TL061IP	296-7174-5-ND	Low Power JFET Op Amp	8-Dip	.96	.72	.54
TL062ACD	296-7175-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.80	.60	.45
TL062ACDR	296-14987-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.80	.60	.45
TL062ACDR	296-14987-2-ND	Dual Low Power JFET Op Amp	8-SOIC	650.00/2,500		
TL062ACP	296-12943-5-ND	Dual Low Power JFET Op Amp	8-Dip	.80	.60	.45
TL062BCD	296-12944-5-ND	Dual Low Power JFET Op Amp	8-SOIC	1.14	.95	.76
TL062BCDR	296-14988-1-ND	Dual Low Power JFET Op Amp	8-SOIC	1.14	.95	.76
TL062BCDR	296-14988-2-ND	Dual Low Power JFET Op Amp	8-SOIC	1235.00/2,500		
TL062BCP	296-7176-5-ND	Dual Low Power JFET Op Amp	8-Dip	1.14	.95	.76
TL062CD	296-1281-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.50	.40	.30
TL062CDR	296-1281-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.47	.38	.29
TL062CDR	296-1281-2-ND	Dual Low Power JFET Op Amp	8-SOIC	317.50/2,500		
TL062CP	296-1771-5-ND	Dual Low Power JFET Op Amp	8-Dip	.47	.38	.29
TL062CPWR	296-7178-1-ND	Dual Low Power JFET Op Amp	8-TSSOP	.64	.48	.36
TL062CPWR	296-7178-2-ND	Dual Low Power JFET Op Amp	8-TSSOP	426.00/2,000		
TL062ID	296-7179-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.47	.38	.29
TL062IDR	296-15072-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.50	.40	.30
TL062IDR	296-15072-2-ND	Dual Low Power JFET Op Amp	8-SOIC	335.00/2,500		
TL062IP	296-12945-5-ND	Dual Low Power JFET Op Amp	8-Dip	.47	.38	.29
TL062IPWR	296-17449-1-ND	Dual Low Power JFET Op Amp	8-TSSOP	.64	.48	.36
TL062IPWR	296-17449-2-ND	Dual Low Power JFET Op Amp	8-TSSOP	426.00/2,000		
TL064ACD	296-7180-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.75	.63	.50
TL064ACDR	296-14989-1-ND	Quad Low Power JFET Op Amp	14-SOIC	.62	.47	.35
TL064ACDR	296-14989-2-ND	Quad Low Power JFET Op Amp	14-SOIC	500.00/2,500		
TL064ACN	296-13014-5-ND	Quad Low Power JFET Op Amp	14-Dip	.75	.63	.50
TL064BCD	296-7181-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.84	.70	.56
TL064BCDR	296-14990-1-ND	Quad Low Power JFET Op Amp	14-SOIC	.84	.70	.56
TL064BCDR	296-14990-2-ND	Quad Low Power JFET Op Amp	14-SOIC	910.00/2,500		
TL064BCN	296-12946-5-ND	Quad Low Power JFET Op Amp	14-Dip	.84	.70	.56
TL064CD	296-1772-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.80	.60	.45
TL064CDR	296-14991-1-ND	Quad Low Power JFET Op Amp	14-SOIC	.57	.43	.33
TL064CDR	296-14991-2-ND	Quad Low Power JFET Op Amp	14-SOIC	465.00/2,500		
TL064CN	296-1773-5-ND	Quad Low Power JFET Op Amp	14-Dip	.57	.43	.33
TL064CPWR	296-7182-1-ND	Quad Low Power JFET Op Amp	14-TSSOP	.57	.43	.33
TL064CPWR	296-7182-2-ND	Quad Low Power JFET Op Amp	14-TSSOP	380.00/2,000		
TL064ID	296-7183-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.80	.60	.45
TL064IDR	296-14992-1-ND	Quad Low Power JFET Op Amp	14-SOIC	.80	.60	.45
TL064IDR	296-14992-2-ND	Quad Low Power JFET Op Amp	14-SOIC	650.00/2,500		
TL064IN	296-7184-5-ND	Quad Low Power JFET Op Amp	14-Dip	.80	.60	.45
TL071ACDR	296-14993-1-ND	Low Noise JFET Op Amp	8-SOIC	.72	.54	.41
TL071ACDR	296-14993-2-ND	Low Noise JFET Op Amp	8-SOIC	585.00/2,500		
TL071ACP	296-7185-5-ND	Low Noise JFET Op Amp	8-Dip	.72	.54	.41
TL071CD	296-12947-5-ND	Low Noise JFET Op Amp	8-SOIC	.48	.36	.27
TL071CDR	296-14994-1-ND	Low Noise JFET Op Amp	8-SOIC	.53	.42	.32
TL071CDR	296-14994-2-ND	Low Noise JFET Op Amp	8-SOIC	355.00/2,500		
TL071CP	296-7186-5-ND	Low Noise JFET Op Amp	8-Dip	.53	.42	.32
TL071ID	296-7187-5-ND	Low Noise JFET Op Amp	8-SOIC	.80	.60	.45
TL071IP	296-7188-5-ND	Low Noise JFET Op Amp	8-Dip	.80	.60	.45
TL072ACD	296-7189-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	.53	.40	.30
TL072ACDR	296-14995-1-ND	Dual Low Noise JFET Op Amp	8-SOIC	.53	.40	.30
TL072ACDR	296-14995-2-ND	Dual Low Noise JFET Op Amp	8-SOIC	430.00/2,500		
TL072ACP	296-7190-5-ND	Low Noise JFET Op Amp	8-Dip	.80	.60	.45
TL072BCD	296-7191-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	.57	.43	.33
TL072BCDR	296-14996-1-ND	Dual Low Noise JFET Op Amp	8-SOIC	.57	.43	.33
TL072BCDR	296-14996-2-ND	Dual Low Noise JFET Op Amp	8-SOIC	465.00/2,500		
TL072BCP	296-7192-5-ND	Low Noise JFET Op Amp	8-Dip	.84	.70	.56
TL072CD	296-1282-5-ND	Dual JFET-Input Op Amp	8-SOIC	.42	.34	.25
TL072CDR	296-1282-1-ND	Dual JFET-Input Op Amp	8-SOIC	.44	.36	.27
TL072CDR	296-1282-2-ND	Dual JFET-Input Op Amp	8-SOIC	297.50/2,500		
TL072CP	296-1775-5-ND	Dual JFET-Input Op Amp	8-Dip	.50	.40	.30
TL072CPWR	296-7193-1-ND	Dual Low Noise JFET Op Amp	8-TSSOP	.72	.54	.41
TL072CPWR	296-7193-2-ND	Dual Low Noise JFET Op Amp	8-TSSOP	478.00/2,000		
TL072ID	296-7194-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	.64	.48	.36
TL072IDR	296-7194-1-ND	Dual Low Noise JFET Op Amp	8-SOIC	.53	.42	.32
TL072IDR	296-7194-2-ND	Dual Low Noise JFET Op Amp	8-SOIC	355.00/2,500		
TL072IP	296-14997-5-ND	Dual Low Noise JFET Op Amp	8-Dip	.64	.48	.36
TL074ACD	296-7195-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.66	.50	.38
TL074ACDR	296-14998-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.66	.50	.38
TL074ACDR	296-14998-2-ND	Quad Low Noise JFET Op Amp	14-SOIC	537.50/2,500		
TL074ACN	296-12948-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.66	.50	.38
TL074BCD	296-7196-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.97	.73	.55
TL074BCDR	296-14999-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.84	.70	.56
TL074BCDR	296-14999-2-ND	Quad Low Noise JFET Op Amp	14-SOIC	910.00/2,500		
TL074BCN	296-7197-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.84	.70	.56
TL074CD	296-1283-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.48	.37	.28
TL074CDR	296-1283-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.48	.37	.28
TL074CDR	296-1283-2-ND	Quad Low Noise JFET Op Amp	14-SOIC	392.50/2,500		
TL074CN	296-1777-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.48	.37	.28
TL074CPWR	296-7198-1-ND	Quad Low Noise JFET Op Amp	14-TSSOP	.48	.37	.28
TL074CPWR	296-7198-2-ND	Quad Low Noise JFET Op Amp	14-TSSOP	322.00/2,000		
TL074ID	296-7199-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.62	.47	.35
TL074IDR	296-15000-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.62	.47	.35
TL074IDR	296-15000-2-ND	Quad Low Noise JFET Op Amp	14-SOIC	500.00/2,500		
TL074IN	296-7200-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.80	.60	.45
TL080CP	296-10127-5-ND	JFET Op Amp	8-Dip	.75	.63	.50
TL081ACD	296-7201-5-ND	JFET Op Amp	8-SOIC	.80	.60	.45
TL081ACP	296-7202-5-ND	JFET Op Amp	8-Dip	.80	.60	.45

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL081CD	296-12949-5-ND	JFET Op Amp	8-SOIC	.48	.36	.27
TL081CDR	296-15001-1-ND	JFET Op Amp	8-SOIC	.48	.36	.27
TL081CDR	296-15001-2-ND	JFET Op Amp	8-SOIC	390.00/2,500		
TL081CP	296-7203-5-ND	JFET Op Amp	8-Dip	.50	.40	.30
TL081ID	296-7204-5-ND	JFET Op Amp	8-SOIC	.80	.60	.45
TL081IDR	296-15002-1-ND	JFET Op Amp	8-SOIC	.80	.60	.45
TL081IDR	296-15002-2-ND	JFET Op Amp	8-SOIC	650.00/2,500		
TL082ACD	296-7205-5-ND	Dual JFET-Input Op Amp	8-SOIC	.55	.44	.33
TL082ACDR	296-15003-1-ND	Dual JFET-Input Op Amp	8-SOIC	.55	.44	.33
TL082ACDR	296-15003-2-ND	Dual JFET-Input Op Amp	8-SOIC	372.50/2,500		
TL082ACP	296-1778-5-ND	Dual JFET-Input Op Amp	8-Dip	.55	.44	.33
TL082BCD	296-7206-5-ND	Dual JFET-Input Op Amp	8-SOIC	.84	.70	.56
TL082BCDR	296-15004-1-ND	Dual JFET-Input Op Amp	8-SOIC	.84	.70	.56
TL082BCDR	296-15004-2-ND	Dual JFET-Input Op Amp	8-SOIC	910.00/2,500		
TL082BCP	296-7207-5-ND	Dual JFET-Input Op Amp	8-Dip	.84	.70	.56
TL082CD	296-1284-5-ND	Dual JFET-Input Op Amp	8-SOIC	.44	.36	.27
TL082CDR	296-1284-1-ND	Dual JFET-Input Op Amp	8-SOIC	.44	.36	.27
TL082CDR	296-1284-2-ND	Dual JFET-Input Op Amp	8-SOIC	297.50/2,500		
TL082CP	296-1780-5-ND	Dual JFET-Input Op Amp	8-Dip	.44	.36	.27
TL082CPWR	296-7208-1-ND	Dual JFET-Input Op Amp	8-TSSOP	.72	.54	.41
TL082CPWR	296-7208-2-ND	Dual JFET-Input Op Amp	8-TSSOP	478.00/2,000		
TL082ID	296-7209-5-ND	Dual JFET-Input Op Amp	8-SOIC	.55	.44	.33
TL082IDR	296-15005-1-ND	Dual JFET-Input Op Amp	8-SOIC	.55	.44	.33
TL082IDR	296-15005-2-ND	Dual JFET-Input Op Amp	8-SOIC	372.50/2,500		
TL082IP	296-1781-5-ND	Dual JFET-Input Op Amp	8-Dip	.55	.44	.33
TL082IPWR	296-17450-1-ND	Dual JFET-Input Op Amp	8-TSSOP	.64	.48	.36
TL082IPWR	296-17450-2-ND	Dual JFET-Input Op Amp	8-TSSOP	426.00/2,000		
TL084ACD	296-7210-5-ND	Quad JFET-Input Op Amp	14-SOIC	.71	.54	.41
TL084ACDR	296-15006-1-ND	Quad JFET-Input Op Amp	8-SOIC	.88	.66	.50
TL084ACDR	296-15006-2-ND	Quad JFET-Input Op Amp	8-SOIC	715.00/2,500		
TL084ACN	296-1782-5-ND	Quad JFET-Input Op Amp	14-Dip	.57	.43	.33
TL084BCD	296-12950-5-ND	Quad JFET-Input Op Amp	14-SOIC	.70	.53	.40
TL084BCDR	296-15007-1-ND	Quad JFET-Input Op Amp	14-SOIC	.70	.53	.40
TL084BCDR	296-15007-2-ND	Quad JFET-Input Op Amp	14-SOIC	572.50/2,500		
TL084BCN	296-12951-5-ND	Quad JFET-Input Op Amp	14-Dip	.96	.80	.64
TL084CD	296-1285-5-ND	Quad JFET-Input Op Amp	14-SOIC	.55	.44	.33
TL084CDR	296-1285-1-ND	Quad JFET-Input Op Amp	14-SOIC	.55	.44	.33
TL084CDR	296-1285-2-ND	Quad JFET-Input Op Amp	14-SOIC	372.50/2,500		
TL084CN	296-1784-5-ND	Quad JFET-Input Op Amp	14-Dip	.55	.44	.33
TL084ACNSR	296-13349-1-ND	Quad JFET-Input Op Amp	14-SOP	.88	.66	.50
TL084ACNSR	296-13349-2-ND	Quad JFET-Input Op Amp	14-SOP	586.00/2,000		
TL084CNSR	296-7211-1-ND	Quad JFET-Input Op Amp	14-SOP	.80	.60	.45
TL084CNSR	296-7211-2-ND	Quad JFET-Input Op Amp	14-SOP	532.00/2,000		
TL084CPWR	296-7212-1-ND	Quad JFET-Input Op Amp	14-TSSOP	.80	.60	.45
TL084CPWR	296-7212-2-ND	Quad JFET-Input Op Amp	14-TSSOP	532.00/2,000		
TL084ID	296-1785-5-ND	Quad JFET-Input Op Amp	14-SOIC	.62	.47	.35
TL084IDR	296-1785-1-ND	Quad JFET-Input Op Amp	14-SOIC	.62	.47	.35
TL084IDR	296-1785-2-ND	Quad JFET-Input Op Amp	14-SOIC	500.00/2,500		
TL084IN	296-7213-5-ND	Quad JFET-Input Op Amp	14-Dip	.62	.47	.35
TL084QD	296-7214-5-ND	Quad JFET-Input Op Amp	14-SOIC	1.26	1.05	.84
TL103WAIDR	296-18861-1-ND	Dual Op Amp with Internal Reference	8-SOIC	.88	.66	.50
TL103WAIDR	296-18861-2-ND	Dual Op Amp with Internal Reference	8-SOIC	715.00/2,500		
TL103WIDR	296-18862-1-ND	Dual Op Amp with Internal Reference	8-SOIC	.72	.54	.41
TL103WIDR	296-18862-2-ND	Dual Op Amp with Internal Reference	8-SOIC	585.00/2,500		
TL343IDBVR	296-12496-1-ND	Single, Low Power Op Amp	SOT-23-5	.80	.60	.45
TL343IDBVR	296-12496-2-ND	Single, Low Power Op Amp	SOT-23-5	780.00/3,000		
TL441MNSREP	296-18137-1-ND	Logarithmic Amp ***NEW!***	16-SOIC	9.18	8.27	7.33
TL441MNSREP	296-18137-2-ND	Logarithmic Amp ***NEW!***	16-SOIC	13610.00/2,000		
TL592B-8D	296-10218-5-ND	Differential Video Amplifier	8-SOIC	1.26	1.05	.84
TL592BP	296-10219-5-ND	Differential Video Amplifier	8-Dip	1.26	1.05	.84
TL592BPSR	296-13354-1-ND	Differential Video Amplifier	8-SOP	1.26	1.05	.84
TL592BPSR	296-13354-2-ND	Differential Video Amplifier	8-SOP	1118.00/2,000		
TL783CKC	296-10229-5-ND	High Voltage Adj. Regulator	TO-220AB	1.60	1.28	.96
TL971IDR	296-22841-1-ND	Single, Output R/R, Very Low Noise Op Amp ***NEW!***	8-SOIC	.68	.51	.39
TL971IDR	296-22841-2-ND	Single, Output R/R, Very Low Noise Op Amp ***NEW!***	8-SOIC	552.50/2,500		
TL972IDR	296-22842-1-ND	Dual, Output R/R, Very Low Noise Op Amp ***NEW!***	8-SOIC	.88	.66	.50
TL972IDR	296-22842-2-ND	Dual, Output R/R, Very Low Noise Op Amp ***NEW!***	8-SOIC	715.00/2,500		
TL972IPWR	296-22843-1-ND	Dual, Output R/R, Very Low Noise Op Amp ***NEW!***	8-TSSOP	.88	.66	.50
TL972IPWR	296-22843-2-ND	Dual, Output R/R, Very Low Noise Op Amp ***NEW!***	8-TSSOP	586.00/2,000		
TL974IDR	296-21693-1-ND	Quad, Output R/R, Very Low Noise Op Amp	14-SOIC	.78	.65	.52
TL974IDR	296-21693-2-ND	Quad, Output R/R, Very Low Noise Op Amp	14-SOIC	845.00/2,500		
TL974IPWR	296-21861-1-ND	Quad, Output R/R, Very Low Noise Op Amp	14-TSSOP	.78	.65	.52
TL974IPWR	296-21861-2-ND	Quad, Output R/R, Very Low Noise Op Amp	14-TSSOP	692.00/2,000		
TL3414AIDR	296-17539-1-ND	Dual High Output Current Op Amp	8-SOIC	.78	.65	.52
TL3414AIDR	296-17539-2-ND	Dual High Output Current Op Amp	8-SOIC	845.00/2,500		
TL3414AIP	296-17553-5-ND	Dual High Output Current Op Amp	8-Dip	.78	.65	.52
TL3414AIPWR	296-17543-1-ND	Dual High Output Current Op Amp	8-TSSOP	.78	.65	.52
TL3414AIPWR	296-17543-2-ND	Dual High Output Current Op Amp	8-TSSOP	692.00/2,000		
TL3472CD	296-10169-5-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	.60	.45	.34
TL3472CDR	296-10169-1-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	.60	.45	.34
TL3472CDR	296-10169-2-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	487.50/2,500		
TL3472CP	296-10170-5-ND	High Slew Rate, Single Supply Op Amp	8-Dip	.60	.45	.34
TL3472IDR	296-17678-1-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	.92	.69	.52
TL3472IDR	296-17678-2-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	747.50/2,500		
TL3472IP	296-17679-5-ND	High Slew Rate, Single Supply Op Amp	8-Dip	.92	.69	.52
TL3474ACDR	296-15623-1-ND	High Slew Rate, Single Supply Op Amp	14-SOIC	1.35	1.13	.90
TL3474ACDR	296-15623-2-ND	High Slew Rate, Single Supply Op Amp	14-SOIC	1462.50/2,500		
TL3474ACN	296-15624-5-ND	High Slew Rate, Single Supply Op Amp	14-Dip	1.35	1.13	.90
TL3474ACPWR	296-15116-1-ND	High Slew Rate, Single Supply Op Amp	14-TSSOP	1.35	1.13	.90
TL3474ACPWR	296-15116-2-ND	High Slew Rate, Single Supply Op Amp	14-TSSOP	1198.00/2,000		
TL3474AIDR	296-15625-1-ND	High Slew Rate, Single Supply Op Amp	14-SOIC	1.41	1.18	.94

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL3474AIDR	296-15625-2-ND	High Slew Rate, Single Supply Op Amp	14-SOIC	1527.50/2,500		
TL3474AIN	296-15626-5-ND	High Slew Rate, Single Supply Op Amp	14-Dip	1.41	1.18	.94
TL3474AIPWR	296-15117-1-ND	High Slew Rate, Single Supply Op Amp	14-TSSOP	1.41	1.18	.94
TL3474AIPWR	296-15117-2-ND	High Slew Rate, Single Supply Op Amp	14-TSSOP	1250.00/2,000		
TL3474CD	296-14405-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-SOIC	1.11	.93	.74
TL3474CN	296-14406-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-Dip	1.11	.93	.74
TL3474CPWR	296-15118-1-ND	High Slew Rate, Quad Supply Op Amp	14-TSSOP	1.11	.93	.74
TL3474CPWR	296-15118-2-ND	High Slew Rate, Quad Supply Op Amp	14-TSSOP	984.00/2,000		
TL3474ID	296-14407-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-SOIC	1.17	.98	.78
TL3474IN	296-14408-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-Dip	1.17	.98	.78
TL3474IPWR	296-15119-1-ND	High Slew Rate, Quad Supply Op Amp	14-TSSOP	1.17	.98	.78
TL3474IPWR	296-15119-2-ND	High Slew Rate, Quad Supply Op Amp	14-TSSOP	1038.00/2,000		
TL4581DR	296-15627-1-ND	Dual Low Noise High Drive Op Amp	8-SOIC	.75	.63	.50
TL4581DR	296-15627-2-ND	Dual Low Noise High Drive Op Amp	8-SOIC	812.50/2,500		
TL4581P	296-15628-5-ND	Dual Low Noise High Drive Op Amp	8-Dip	.75	.63	.50
TL4581PSR	296-15629-1-ND	Dual Low Noise High Drive Op Amp	8-SOP	.75	.63	.50
TL4581PSR	296-15629-2-ND	Dual Low Noise High Drive Op Amp	8-SOP	666.00/2,000		
TL5580AIDR	296-21097-1-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-SOIC	2.13	1.70	1.28
TL5580AIDR	296-21097-2-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-SOIC	2720.00/2,500		
TL5580AIP	296-21098-5-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-Dip	2.13	1.70	1.28
TL5580AIPWR	296-21099-1-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-TSSOP	2.13	1.70	1.28
TL5580AIPWR	296-21099-2-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-TSSOP	2210.00/2,000		
TL5580IDR	296-21100-1-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-SOIC	1.63	1.30	.98
TL5580IDR	296-21100-2-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-SOIC	2080.00/2,500		
TL5580IP	296-21101-5-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-Dip	1.63	1.30	.98
TL5580IPWR	296-21102-1-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-TSSOP	1.63	1.30	.98
TL5580IPWR	296-21102-2-ND	Dual Low Noise Wide Bandwidth Precision Amp	8-TSSOP	1690.00/2,000		
TLC25L2ACD	296-7297-5-ND	Dual Op Amp	8-SOIC	2.68	2.15	1.67
TLC25L2BCD	296-7298-5-ND	Dual Op Amp	8-SOIC	2.88	2.31	1.80
TLC25L2BCP	296-7299-5-ND	Dual Op Amp	8-Dip	2.88	2.31	1.80
TLC25L2CD	296-7300-5-ND	Dual Low Volt. Micropower Op Amp	8-SOIC	2.57	2.06	1.60
TLC25L2CP	296-7301-5-ND	Dual Low Volt. Micropower Op Amp	8-Dip	2.57	2.06	1.60
TLC25L4ACN	296-7303-5-ND	Quad Op Amp	14-Dip	3.74	2.99	2.33
TLC25L4BCD	296-7304-5-ND	Quad Op Amp	14-SOIC	3.96	3.17	2.47
TLC25L4BCN	296-7305-5-ND	Quad Op Amp	14-Dip	3.96	3.17	2.47
TLC25L4CD	296-7306-5-ND	Quad Low Volt. Micropower Op Amp	14-SOIC	3.53	2.83	2.20
TLC25L4CN	296-7307-5-ND	Quad Low Volt. Micropower Op Amp	14-Dip	3.53	2.83	2.20
TLC25M2ACD	296-7308-5-ND	Dual Op Amp	8-SOIC	2.68	2.15	1.67
TLC25M2ACP	296-7309-5-ND	Dual Op Amp	8-Dip	2.68	2.15	1.67
TLC25M2CP	296-7310-5-ND	Dual Low Power Low Voltage Op Amp	8-Dip	2.57	2.06	1.60
TLC25M4BCN	296-7312-5-ND	Quad Op Amp	14-Dip	3.96	3.17	2.47
TLC25M4CD	296-7313-5-ND	Quad Low Power Low Volt. Op Amp	14-SOIC	3.53	2.83	2.20
TLC25M4CN	296-7314-5-ND	Quad Low Power Low Voltage Op Amp	14-Dip	3.53	2.83	2.20
TLC27L1ACP	296-10259-5-ND	Low Power Op Amp	8-Dip	.92	.69	.52
TLC27L1CP	296-15120-5-ND	Low Power Op Amp	8-Dip	.88	.66	.50
TLC27L1ID	296-10260-5-ND	Low Power Op Amp	8-SOIC	.92	.69	.52
TLC27L2ACD	296-7369-5-ND	Dual Precision Op Amp	8-SOIC	.78	.65	.52
TLC27L2ACP	296-7370-5-ND	Dual Precision Op Amp	8-Dip	.78	.65	.52
TLC27L2AID	296-7371-5-ND	Dual Precision Op Amp	8-SOIC	.81	.68	.54
TLC27L2AIP	296-7372-5-ND	Dual Precision Op Amp	8-Dip	.81	.68	.54
TLC27L2BCD	296-7373-5-ND	Dual Precision Op Amp	8-SOIC	.93	.78	.62
TLC27L2BCP	296-7374-5-ND	Dual Precision Op Amp	8-Dip	.93	.78	.62
TLC27L2BID	296-7375-5-ND	Dual Precision Op Amp	8-SOIC	.96	.80	.64
TLC27L2BIP	296-7376-5-ND	Dual Precision Op Amp	8-Dip	.96	.80	.64
TLC27L2CD	296-1316-5-ND	Dual Precision Op Amp	8-SOIC	.76	.57	.43
TLC27L2CDR	296-1316-1-ND	Dual Precision Op Amp	8-SOIC	.76	.57	.43
TLC27L2CDR	296-1316-2-ND	Dual Precision Op Amp	8-SOIC	617.50/2,500		
TLC27L2CP	296-7377-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	.76	.57	.43
TLC27L2CPSR	296-7378-1-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOP	.76	.57	.43
TLC27L2CPSR	296-7378-2-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOP	506.00/2,000		
TLC27L2ID	296-1317-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	.80	.60	.45
TLC27L2IDR	296-1317-1-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	.80	.60	.45
TLC27L2IDR	296-1317-2-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	650.00/2,500		
TLC27L2IP	296-7379-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	.80	.60	.45
TLC27L2IPW	296-7380-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-TSSOP	.80	.60	.45
TLC27L2MD	296-7381-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	.75	.63	.50
TLC27L4ACD	296-1831-5-ND	Quad Precision Op Amp	14-SOIC	.87	.73	.58
TLC27L4ACN	296-7382-5-ND	Quad Precision Op Amp	14-Dip	.87	.73	.58
TLC27L4AID	296-7383-5-ND	Quad Precision Op Amp	14-SOIC	.93	.78	.62
TLC27L4AIN	296-7384-5-ND	Quad Precision Op Amp	14-Dip	.93	.78	.62
TLC27L4BCD	296-7385-5-ND	Quad Precision Op Amp	14-SOIC	.96	.80	.64
TLC27L4BCN	296-7386-5-ND	Quad Precision Op Amp	14-Dip	.96	.80	.64
TLC27L4BID	296-7387-5-ND	Quad Precision Op Amp	14-SOIC	1.02	.85	.68
TLC27L4BIN	296-7388-5-ND	Quad Precision Op Amp	14-Dip	1.02	.85	.68
TLC27L4CD	296-1318-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.88	.66	.50
TLC27L4CDR	296-1318-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.88	.66	.50
TLC27L4CN	296-7389-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	.88	.66	.50
TLC27L4CPWR	296-7390-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-TSSOP	.88	.66	.50
TLC27L4CPWR	296-7390-2-ND	Quad Precision Single-Supply Micropower Op Amp	14-TSSOP	586.00/2,000		
TLC27L4ID	296-1319-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.92	.69	.52
TLC27L4IDR	296-1319-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.92	.69	.52
TLC27L4IDR	296-1319-2-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	747.50/2,500		
TLC27L4IN	296-7391-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	.92	.69	.52
TLC27L4IPW	296-7392-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-TSSOP	.92	.69	.52
TLC27L7CD	296-1832-5-ND	Dual Precision Op Amp	8-SOIC	1.78	1.42	1.07
TLC27L7CP	296-7393-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	1.78	1.42	1.07
TLC27L7ID	296-1320-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	1.90	1.52	1.14
TLC27L7IDR	296-1320-1-ND	Dual Precision Op Amp	8-SOIC	1.90	1.52	1.14
TLC27L7IDR	296-1320-2-ND	Dual Precision Op Amp	8-SOIC	2432.50/2,500		
TLC27L7IP	296-7394-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	1.90	1.52	1.14
TLC27L9CD	296-7395-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	2.25	1.80	1.40
TLC27L9CN	296-7396-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	2.25	1.80	1.40
TLC27L9CNSR	296-7397-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOP	2.50	2.00	1.50
TLC27L9CNSR	296-7397-2-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOP	2550.00/2,000		
TLC27L9ID	296-1834-5-ND	Quad Precision Op Amp	14-SOIC	2.36	1.89	1.47
TLC27L9IN	296-7398-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	2.36	1.89	1.47
TLC27M2ACP	296-7400-5-ND	Dual Precision Op Amp	8-Dip	.78	.65	.52
TLC27M2AID	296-7401-5-ND	Dual Precision Op Amp	8-SOIC	.81	.68	.54
TLC27M2AIP	296-7402-5-ND	Dual Precision Op Amp	8-Dip	.81	.68	.54
TLC27M2BCD	296-7403-5-ND	Dual Precision Op Amp	8-SOIC	.93	.78	.62
TLC27M2BCP	296-7404-5-ND	Dual Precision Op Amp	8-Dip	.93	.78	.62
TLC27M2BID	296-7405-5-ND	Dual Precision Op Amp	8-SOIC	.96	.80	.64
TLC27M2BIP	296-7406-5-ND	Dual Precision Op Amp	8-Dip	.96	.80	.64
TLC27M2CD	296-1321-5-ND	Dual Precision Op Amp	8-SOIC	.88	.66	.50
TLC27M2CDR	296-1321-1-ND	Dual Precision Op Amp	8-SOIC	.88	.66	.50
TLC27M2CDR	296-1321-2-ND	Dual Precision Op Amp	8-SOIC	715.00/2,500		
TLC27M2CP	296-1836-5-ND	Dual Precision Op Amp	8-Dip	.88	.66	.50
TLC27M2CPWR	296-7407-1-ND	Dual LP Prec. Single-Supply Op Amp	8-TSSOP	.88	.66	.50
TLC27M2CPWR	296-7407-2-ND	Dual LP Prec. Single-Supply Op Amp	8-TSSOP	586.00/2,000		
TLC27M2ID	296-1322-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	.92	.69	.52
TLC27M2IDR	296-1322-1-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	.92	.69	.52
TLC27M2IDR	296-1322-2-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	747.50/2,500		
TLC27M2IP	296-7408-5-ND	Dual LP Prec. Single-Supply Op Amp	8-Dip	.92	.69	.52
TLC27M2IPW	296-7409-5-ND	Dual LP Prec. Single-Supply Op Amp	8-TSSOP	.92	.69	.52
TLC27M2MD	296-7410-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	.84	.70	.56
TLC27M4ACD	296-7411-5-ND	Quad Precision Op Amp	14-SOIC	.81	.68	.54
TLC27M4ACN	296-7412-5-ND	Quad Precision Op Amp	14-Dip	.81	.68	.54
TLC27M4AID	296-7413-5-ND	Quad Precision Op Amp	14-SOIC	.84	.70	.56
TLC27M4AIN	296-7414-5-ND	Quad Precision Op Amp	14-Dip	.84	.70	.56
TLC27M4BCD	296-7415-5-ND	Quad Precision Op Amp	14-SOIC	1.17	.98	.78
TLC27M4BCN	296-7416-5-ND	Quad Precision Op Amp	14-Dip	1.17	.98	.78
TLC27M4BID	296-7417-5-ND	Quad Precision Op Amp	14-SOIC	1.38	1.15	.92
TLC27M4BIN	296-7418-5-ND	Quad Precision Op Amp	14-Dip	1.38	1.15	.92
TLC27M4CD	296-1837-5-ND	Quad Precision Op Amp	14-SOIC	.81	.68	.54
TLC27M4CN	296-7419-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	.81	.68	.54
TLC27M4CPWR	296-7420-1-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	.81	.68	.54
TLC27M4CPWR	296-7420-2-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	718.00/2,000		
TLC27M4ID	296-7421-5-ND	Quad LP Prec. Single-Supply Op Amp	14-SOIC	.84	.70	.56
TLC27M4IN	296-7422-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	.84	.70	.56
TLC27M4IPWR	296-7423-1-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	.84	.70	.56
TLC27M4IPWR	296-7423-2-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	744.00/2,000		
TLC27M7CDR	296-1323-1-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	1.78	1.42	1.07
TLC27M7CDR	296-1323-2-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	2272.50/2,500		
TLC27M7CP	296-1838-5-ND	Dual Precision Op Amp	8-Dip	1.78	1.42	1.07
TLC27M7ID	296-7424-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	1.90	1.52	1.14
TLC27M7IP	296-7425-5-ND	Dual LP Prec. Single-Supply Op Amp	8-Dip	1.90	1.52	1.14
TLC27M9CD	296-7426-5-ND	Quad LP Prec. Single-Supply Op Amp	14-SOIC	2.25	1.80	1.40
TLC27M9CN	296-7427-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	2.25	1.80	1.40
TLC27M9ID	296-7428-5-ND	Quad LP Prec. Single-Supply Op Amp	14-SOIC	2.36	1.89	1.47
TLC27M9IN	296-7429-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	2.36	1.89	1.47
TLC070AIP	296-7216-5-ND	High-Output WB Op Amp	8-Dip	1.30	1.04	.78
TLC070CD	296-2413-5-ND	High-Output WB Op Amp	8-SOIC	1.44	1.20	.96
TLC070CDR	296-2413-1-ND	High-Output WB Op Amp	8-SOIC	1.44	1.20	.96
TLC070CDR	296-2413-2-ND	High-Output WB Op Amp	8-SOIC	1560.00/2,500		
TLC070CDGNR	296-7217-1-ND	High-Output WB Op Amp	8-MSOP	1.44	1.20	.96
TLC070CDGNR	296-7217-2-ND	High-Output WB Op Amp	8-MSOP	1560.00/2,500		
TLC070IDGNR	296-7218-1-ND	High-Output WB Op Amp	8-MSOP	1.56	1.30	1.04
TLC070IDGNR	296-7218-2-ND	High-Output WB Op Amp	8-MSOP	1665.00/2,500		
TLC070IDR	296-7219-1-ND	High-Output WB Op Amp	8-SOIC	1.56	1.30	1.04
TLC070IDR	296-7219-2-ND	High-Output WB Op Amp	8-SOIC	1665.00/2,500		
TLC070IP	296-7220-5-ND	High-Output WB Op Amp	8-Dip	1.30	1.04	.78
TLC071AIP	296-7221-5-ND	High-Output WB Op Amp	8-Dip	1.44	1.20	.96
TLC071CD	296-2414-5-ND	Single-Supply Op Amp	8-SOIC	1.29	1.08	.86
TLC071CDGNR	296-7222-1-ND	High-Output WB Op Amp	8-MSOP	1.29	1.08	.86

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
TLC071CDGNR	296-7222-2-ND	High-Output WB Op Amp	8-MSOP	1397.50/2,500		
TLC071IDGNR	296-7223-1-ND	High-Output WB Op Amp	8-MSOP	1.35	1.13	.90
TLC071IDGNR	296-7223-2-ND	High-Output WB Op Amp	8-MSOP	1462.50/2,500		
TLC071IDR	296-7224-1-ND	High-Output WB Op Amp	8-SOIC	1.35	1.13	.90
TLC071IDR	296-7224-2-ND	High-Output WB Op Amp	8-SOIC	1462.50/2,500		
TLC071IP	296-7225-5-ND	High-Output WB Op Amp	8-Dip	1.35	1.13	.90
TLC072AID	296-7226-5-ND	Dual High-Output WB Op Amp	8-SOIC	1.78	1.42	1.07
TLC072AIP	296-7227-5-ND	Dual High-Output WB Op Amp	8-Dip	1.78	1.42	1.07
TLC072CD	296-2415-5-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC072CDR	296-2415-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC072CDR	296-2415-2-ND	Dual High-Output WB Op Amp	8-SOIC	2145.00/2,500		
TLC072CDGNR	296-7228-1-ND	Dual High-Output WB Op Amp	8-MSOP	1.68	1.34	1.01
TLC072CDGNR	296-7228-2-ND	Dual High-Output WB Op Amp	8-MSOP	2145.00/2,500		
TLC072CP	296-7229-5-ND	Dual High-Output WB Op Amp	8-Dip	1.68	1.34	1.01
TLC072IDGNR	296-7230-1-ND	Dual High-Output WB Op Amp	8-MSOP	1.68	1.34	1.01
TLC072IDGNR	296-7230-2-ND	Dual High-Output WB Op Amp	8-MSOP	2145.00/2,500		
TLC072IDR	296-7231-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC072IDR	296-7231-2-ND	Dual High-Output WB Op Amp	8-SOIC	2145.00/2,500		
TLC072IP	296-7232-5-ND	Dual High-Output WB Op Amp	8-Dip	1.68	1.34	1.01
TLC073AID	296-7233-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.90	1.52	1.14
TLC073CD	296-2416-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.78	1.42	1.07
TLC073CDR	296-2416-1-ND	Dual High-Output WB Op Amp	14-SOIC	1.78	1.42	1.07
TLC073CDR	296-2416-2-ND	Dual High-Output WB Op Amp	14-SOIC	2272.50/2,500		
TLC073CDGQ	296-7234-5-ND	Dual High-Output WB Op Amp	10-MSOP	1.78	1.42	1.07
TLC073CN	296-7235-5-ND	Dual High-Output WB Op Amp	14-Dip	1.78	1.42	1.07
TLC073IDGQR	296-7237-1-ND	Dual High-Output WB Op Amp	10-MSOP	1.90	1.52	1.14
TLC073IDGQR	296-7237-2-ND	Dual High-Output WB Op Amp	10-MSOP	2432.50/2,500		
TLC073IN	296-7238-5-ND	Dual High-Output WB Op Amp	14-Dip	1.90	1.52	1.14
TLC074AID	296-7239-5-ND	Quad High-Output WB Op Amp	14-SOIC	2.25	1.80	1.40
TLC074AIN	296-7240-5-ND	Quad High-Output WB Op Amp	14-Dip	2.25	1.80	1.40
TLC074AIPWP	296-7241-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.36	1.89	1.47
TLC074CD	296-2417-5-ND	Quad High-Output Op Amp	14-SOIC	2.25	1.80	1.35
TLC074CDR	296-2417-1-ND	Quad High-Output WB Op Amp	14-SOIC	2.25	1.80	1.35
TLC074CDR	296-2417-2-ND	Quad High-Output WB Op Amp	14-SOIC	2880.00/2,500		
TLC074CN	296-7242-5-ND	Quad High-Output WB Op Amp	14-Dip	2.25	1.80	1.35
TLC074CPWPR	296-7243-1-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.38	1.90	1.43
TLC074CPWPR	296-7243-2-ND	Quad High-Output WB Op Amp	20-HTSSOP	2470.00/2,000		
TLC074IDR	296-7244-1-ND	Quad High-Output WB Op Amp	14-SOIC	2.38	1.90	1.43
TLC074IDR	296-7244-2-ND	Quad High-Output WB Op Amp	14-SOIC	3040.00/2,500		
TLC074IN	296-7245-5-ND	Quad High-Output WB Op Amp	14-Dip	2.38	1.90	1.43
TLC074IPWP	296-7246-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.25	1.80	1.40
TLC075AID	296-7247-5-ND	Quad High-Output WB Op Amp	16-SOIC	2.45	1.97	1.53
TLC075AIN	296-7248-5-ND	Quad High-Output WB Op Amp	16-Dip	2.45	1.97	1.53
TLC075AIPWP	296-7249-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.57	2.06	1.60
TLC075CD	296-2418-5-ND	Quad High-Output WB Op Amp	16-SOIC	2.25	1.80	1.40
TLC075CDR	296-2418-1-ND	Quad High-Output WB Op Amp	16-SOIC	2.50	2.00	1.50
TLC075CDR	296-2418-2-ND	Quad High-Output WB Op Amp	16-SOIC	3150.00/2,500		
TLC075CN	296-7250-5-ND	Quad High-Output WB Op Amp	16-Dip	2.25	1.80	1.40
TLC075CPWP	296-7251-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.36	1.89	1.47
TLC075IDR	296-7252-1-ND	Quad High-Output WB Op Amp	16-SOIC	2.63	2.10	1.58
TLC075IDR	296-7252-2-ND	Quad High-Output WB Op Amp	16-SOIC	3307.50/2,500		
TLC075IN	296-7253-5-ND	Quad High-Output WB Op Amp	16-Dip	2.36	1.89	1.47
TLC075IPWP	296-7254-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.45	1.97	1.53
TLC080AIDR	296-7255-1-ND	High-Output WB Op Amp	8-SOIC	1.56	1.30	1.04
TLC080AIDR	296-7255-2-ND	High-Output WB Op Amp	8-SOIC	1665.00/2,500		
TLC080AIP	296-7256-5-ND	High-Output WB Op Amp	8-Dip	1.30	1.04	.78
TLC080CD	296-2419-5-ND	High-Output WB Op Amp	8-SOIC	1.44	1.20	.96
TLC080CDR	296-2419-1-ND	High-Output WB Op Amp	8-SOIC	1.44	1.20	.96
TLC080CDR	296-2419-2-ND	High-Output WB Op Amp	8-SOIC	1560.00/2,500		
TLC080CDGNR	296-7257-1-ND	High-Output WB Op Amp	8-MSOP	1.44	1.20	.96
TLC080CDGNR	296-7257-2-ND	High-Output WB Op Amp	8-MSOP	1560.00/2,500		
TLC080IDGNR	296-7258-1-ND	High-Output WB Op Amp	8-MSOP	1.56	1.30	1.04
TLC080IDGNR	296-7258-2-ND	High-Output WB Op Amp	8-MSOP	1665.00/2,500		
TLC080IDR	296-7259-1-ND	High-Output WB Op Amp	8-SOIC	1.56	1.30	1.04
TLC080IDR	296-7259-2-ND	High-Output WB Op Amp	8-SOIC	1665.00/2,500		
TLC080IP	296-7260-5-ND	High-Output WB Op Amp	8-Dip	1.30	1.04	.78
TLC081AIP	296-7261-5-ND	High-Output WB Op Amp	8-Dip	1.44	1.20	.96
TLC081CD	296-2420-5-ND	Single-Supply Op Amp	8-SOIC	1.29	1.08	.86
TLC081CDGN	296-7262-5-ND	High-Output WB Op Amp	8-MSOP	1.44	1.20	.96
TLC081CDGNR	296-7262-1-ND	High-Output WB Op Amp	8-MSOP	1.44	1.20	.96
TLC081CDGNR	296-7262-2-ND	High-Output WB Op Amp	8-MSOP	1560.00/2,500		
TLC081IDGNR	296-7263-1-ND	High-Output WB Op Amp	8-MSOP	1.56	1.30	1.04
TLC081IDGNR	296-7263-2-ND	High-Output WB Op Amp	8-MSOP	1665.00/2,500		
TLC081IDR	296-7264-1-ND	High-Output WB Op Amp	8-SOIC	1.35	1.13	.90
TLC081IDR	296-7264-2-ND	High-Output WB Op Amp	8-SOIC	1462.50/2,500		
TLC081IP	296-7265-5-ND	High-Output WB Op Amp	8-Dip	1.35	1.13	.90
TLC082AIDR	296-7266-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.78	1.42	1.07
TLC082AIDR	296-7266-2-ND	Dual High-Output WB Op Amp	8-SOIC	2272.50/2,500		
TLC082AIP	296-7267-5-ND	Dual High-Output WB Op Amp	8-Dip	1.78	1.42	1.07
TLC082CD	296-2421-5-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC082CDR	296-2421-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC082CDR	296-2421-2-ND	Dual High-Output WB Op Amp	8-SOIC	2145.00/2,500		
TLC082CDGNR	296-7268-1-ND	Dual High-Output WB Op Amp	8-MSOP	1.68	1.34	1.01
TLC082CDGNR	296-7268-2-ND	Dual High-Output WB Op Amp	8-MSOP	2145.00/2,500		
TLC082CP	296-7269-5-ND	Dual High-Output WB Op Amp	8-Dip	1.68	1.34	1.01
TLC082IDGNR	296-7270-1-ND	Dual High-Output WB Op Amp	8-MSOP	1.68	1.34	1.01
TLC082IDGNR	296-7270-2-ND	Dual High-Output WB Op Amp	8-MSOP	2145.00/2,500		
TLC082IDR	296-7271-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC082IDR	296-7271-2-ND	Dual High-Output WB Op Amp	8-SOIC	2145.00/2,500		
TLC082IP	296-7272-5-ND	Dual High-Output WB Op Amp	8-Dip	1.68	1.34	1.01
TLC083AID	296-7273-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.90	1.52	1.14
TLC083AIN	296-7274-5-ND	Dual High-Output WB Op Amp	14-Dip	1.90	1.52	1.14
TLC083CD	296-2422-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.78	1.42	1.07
TLC083CDR	296-2422-1-ND	Dual High-Output WB Op Amp	14-SOIC	1.78	1.42	1.07
TLC083CDR	296-2422-2-ND	Dual High-Output WB Op Amp	14-SOIC	2272.50/2,500		
TLC083CDGQR	296-7275-1-ND	Dual High-Output WB Op Amp	10-MSOP	1.78	1.42	1.07
TLC083CDGQR	296-7275-2-ND	Dual High-Output WB Op Amp	10-MSOP	2272.50/2,500		
TLC083CN	296-7276-5-ND	Dual High-Output WB Op Amp	14-Dip	1.78	1.42	1.07
TLC083ID	296-7277-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.90	1.52	1.14
TLC083IDGQ	296-7278-5-ND	Dual High-Output WB Op Amp	10-MSOP	1.90	1.52	1.14
TLC083IN	296-7279-5-ND	Dual High-Output WB Op Amp	14-Dip	1.90	1.52	1.14
TLC084AID	296-7280-5-ND	Quad High-Output WB Op Amp	14-SOIC	2.25	1.80	1.40
TLC084AIN	296-7281-5-ND	Quad High-Output WB Op Amp	14-Dip	2.25	1.80	1.40
TLC084AIPWP	296-7282-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.36	1.89	1.47
TLC084CD	296-2423-5-ND	Quad High-Output WB Op Amp	14-SOIC	2.25	1.80	1.35

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
TLC084CDR	296-2423-1-ND	Quad High-Output WB Op Amp	14-SOIC	2.25	1.80	1.35
TLC084CDR	296-2423-2-ND	Quad High-Output WB Op Amp	14-SOIC	2880.00/2,500		
TLC084CN	296-7283-5-ND	Quad High-Output WB Op Amp	14-Dip	2.25	1.80	1.35
TLC084CPWP	296-7285-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.38	1.90	1.43
TLC084CPWPR	296-7285-1-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.38	1.90	1.43
TLC084CPWPR	296-7285-2-ND	Quad High-Output WB Op Amp	20-HTSSOP	3040.00/2,500		
TLC084ID	296-7287-5-ND	Quad High-Output WB Op Amp	14-SOIC	2.38	1.90	1.43
TLC084IDR	296-7287-1-ND	Quad High-Output WB Op Amp	14-SOIC	2.38	1.90	1.43
TLC084IDR	296-7287-2-ND	Quad High-Output WB Op Amp	14-SOIC	3040.00/2,500		
TLC084IPWP	296-7288-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.25	1.80	1.40
TLC085AID	296-7289-5-ND	Quad High-Output WB Op Amp	16-SOIC	2.45	1.97	1.53
TLC085AIN	296-7290-5-ND	Quad High-Output WB Op Amp	16-Dip	2.45	1.97	1.53
TLC085AIPWP	296-7291-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.57	2.06	1.60
TLC085CD	296-2424-5-ND	Quad High-Output WB Op Amp	16-SOIC	2.25	1.80	1.40
TLC085CDR	296-2424-1-ND	Quad High-Output WB Op Amp	16-SOIC	2.50	2.00	1.50
TLC085CDR	296-2424-2-ND	Quad High-Output WB Op Amp	16-SOIC	3150.00/2,500		
TLC085CN	296-7292-5-ND	Quad High-Output WB Op Amp	16-Dip	2.25	1.80	1.40
TLC085CPWP	296-7293-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.36	1.89	1.47
TLC085IDR	296-7294-1-ND	Quad High-Output WB Op Amp	16-SOIC	2.63	2.10	1.58
TLC085IDR	296-7294-2-ND	Quad High-Output WB Op Amp	16-SOIC	3307.50/2,500		
TLC085IPWP	296-7296-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.45	1.97	1.53
TLC251ACD	296-10243-5-ND	Programmable Low Power Op Amp	8-SOIC	2.15	1.72	1.29
TLC251ACP	296-10244-5-ND	Programmable Low Power Op Amp	8-Dip	2.15	1.72	1.29
TLC251BCP	296-10245-5-ND	Programmable Low Power Op Amp	8-Dip	2.15	1.72	1.29
TLC251CD	296-10246-5-ND	Programmable Low Power Op Amp	8-SOIC	2.03	1.62	1.22
TLC251CP	296-10247-5-ND	Programmable Low Power Op Amp	8-Dip	2.03	1.62	1.22
TLC252ACD	296-10248-5-ND	Dual Low Power Op Amp	8-SOIC	2.68	2.15	1.67
TLC252BCD	296-10249-5-ND	Dual Low Power Op Amp	8-SOIC	2.79	2.24	1.74
TLC252BCP	296-10250-5-ND	Dual Low Power Op Amp	8-Dip	2.79	2.24	1.74
TLC252CD	296-10251-5-ND	Dual Low Power Op Amp	8-SOIC	2.57	2.06	1.60
TLC252CP	296-10252-5-ND	Dual Low Power Op Amp	8-Dip	2.57	2.06	1.60
TLC252CPWR	296-10253-1-ND	Dual Low Power Op Amp	8-TSSOP	2.85	2.28	1.71
TLC252CPWR	296-10253-2-ND	Dual Low Power Op Amp	8-TSSOP	2908.00/2,000		
TLC254ACD	296-2902-5-ND	LinCMOS™ Quad Op Amp	14-SOIC	3.74	2.99	2.33
TLC254ACN	296-2903-5-ND	LinCMOS™ Quad Op Amp	14-Dip	3.74	2.99	2.33
TLC254BCD	296-2904-5-ND	LinCMOS™ Quad Op Amp	14-SOIC	3.96	3.17	2.47
TLC254BCN	296-2905-5-ND	LinCMOS™ Quad Op Amp	14-Dip	3.96	3.17	2.47
TLC254CD	296-2906-5-ND	LinCMOS™ Quad Op Amp	14-SOIC	3.53	2.83	2.20
TLC254CN	296-2907-5-ND	LinCMOS™ Quad Op Amp	14-Dip	3.53	2.83	2.20
TLC254ID	296-2908-5-ND	LinCMOS™ Quad Op Amp	14-SOIC	3.74	2.99	2.33
TLC271ACD	296-7338-5-ND	LP Programmable Op Amp	8-SOIC	.88	.66	.50
TLC271ACP	296-7339-5-ND	LP Programmable Op Amp	8-Dip	.88	.66	.50
TLC271AID	296-7340-5-ND	LP Programmable Op Amp	8-SOIC	.92	.69	.52
TLC271AIP	296-7341-5-ND	LP Programmable Op Amp	8-Dip	.92	.69	.52
TLC271BCD	296-7342-5-ND	LP Programmable Op Amp	8-SOIC	.96	.72	.54
TLC271BID	296-7344-5-ND	LP Programmable Op Amp	8-SOIC	.78	.65	.52
TLC271BIP	296-7345-5-ND	LP Programmable Op Amp	8-Dip	.78	.65	.52
TLC271CD	296-1308-5-ND	LP Programmable Op Amp	8-SOIC	.76	.57	.43
TLC271CDR	296-1308-1-ND	LP Programmable Op Amp	8-SOIC	.76	.57	.43
TLC271CDR	296-1308-2-ND	LP Programmable Op Amp	8-SOIC	617.50/2,500		
TLC271BCP	296-7343-5-ND	LP Programmable Op Amp	8-Dip	.96	.72	.54
TLC271CP	296-1820-5-ND	LP Programmable Op Amp	8-Dip	.76	.57	.43
TLC271ID	296-1821-5-ND	LP Programmable Op Amp	8-SOIC	.80	.60	.45
TLC271IDR	296-1821-1-ND	LP Programmable Op Amp	8-SOIC	.80	.60	.45
TLC271IDR	296-1821-2-ND	LP Programmable Op Amp	8-SOIC	650.00/2,500		
TLC271IP	296-1822-5-ND	LP Programmable Op Amp	8-Dip	.80	.60	.45
TLC272ACD	296-1309-5-ND	Dual Precision Op Amp	8-SOIC	.84	.63	.48
TLC272ACDR	296-1309-1-ND	Dual Precision Op Amp	8-SOIC	.84	.63	.48
TLC272ACDR	296-1309-2-ND	Dual Precision Op Amp	8-SOIC	682.50/2,500		
TLC272ACP	296-7346-5-ND	Dual Precision Op Amp	8-Dip	.84	.63	.48
TLC272AID	296-7347-5-ND	Dual Precision Op Amp	8-SOIC	.88	.66	.50
TLC272AIP	296-7348-5-ND	Dual Precision Op Amp	8-Dip	.88	.66	.50
TLC272BCD	296-7349-5-ND	Dual Precision Op Amp	8-SOIC	.88	.66	.50
TLC272BCP	296-7350-5-ND	Dual Precision Op Amp	8-Dip	.88	.66	.50
TLC272BID	296-7351-5-ND	Dual Precision Op Amp	8-SOIC	.92	.69	.52
TLC272BIP	296-7352-5-ND	Dual Precision Op Amp	8-Dip	.92	.69	.52
TLC272CD	296-1310-5-ND	Dual Precision Op Amp	8-SOIC	.72	.54	.41
TLC272CDR	296-1310-1-ND	Dual Precision Op Amp	8-SOIC	.72	.54	.41
TLC272CDR	296-1310-2-ND	Dual Precision Op Amp	8-SOIC	585.00/2,500		
TLC272CP	296-1824-5-ND	Dual Precision Op Amp	8-Dip	.72	.54	.41
TLC272CPSR	296-7353-1-ND	Dual Single-Supply Op Amp	8-SOP	.72	.54	.41
TLC272CPSR	296-7353-2-ND	Dual Single-Supply Op Amp	8-SOP	478.00/2,000		
TLC272CPW	296-7354-5-ND	Dual Single-Supply Op Amp	8-TSSOP	.72	.54	.41
TLC272CPWR	296-7354-1-ND	Dual Single-Supply Op Amp	8-TSSOP	.72	.54	.41
TLC272CPWR	296-7354-2-ND	Dual Single-Supply Op Amp	8-TSSOP	478.00/2,000		
TLC272ID	296-1311-5-ND	Dual Precision Single-Supply Op Amp	8-SOIC	.76	.57	.43
TLC272IDR	296-1311-1-ND	Dual Precision Single-Supply Op Amp	8-SOIC	.76	.57	.43
TLC272IDR	296-1311-2-ND	Dual Precision Single-Supply Op Amp	8-SOIC	617.50/2,500		
TLC272IP	296-7355-5-ND	Dual Single-Supply Op Amp	8-Dip	.76	.57	.43
TLC274ACD	296-1825-5-ND	Quad Precision Op Amp	14-SOIC	.87	.73	.58
TLC274ACN	296-7356-5-ND	Quad Precision Op Amp	14-Dip	.87	.73	.58
TLC274AID	296-7357-5-ND	Quad Precision Op Amp	14-SOIC	.84	.70	.56
TLC274AIN	296-7358-5-ND	Quad Precision Op Amp	14-Dip	.84	.70	.56
TLC274BCD	296-7359-5-ND	Quad Precision Op Amp	14-SOIC	.87	.73	.58
TLC274BCN	296-7360-5-ND	Quad Precision Op Amp	14-Dip	.87	.73	.58
TLC274BID	296-1312-5-ND	Quad Precision Op Amp	14-SOIC	.90	.75	.60
TLC274BIDR	296-1312-1-ND	Quad Precision Op Amp	14-SOIC	.90	.75	.60
TLC274BIDR	296-1312-2-ND	Quad Precision Op Amp	14-SOIC	975.00/2,500		
TLC274BIN	296-7361-5-ND	Quad Precision Op Amp	14-Dip	.90	.75	.60
TLC274CD	296-1313-5-ND	Quad Single-Supply Op Amp	14-SOIC	.75	.63	.50
TLC274CDR	296-1313-1-ND	Quad Precision Op Amp	14-SOIC	.75	.63	.50
TLC274CDR	296-1313-2-ND	Quad Precision Op Amp	14-SOIC	812.50/2,500		
TLC274CN	296-1826-5-ND	Quad Precision Op Amp	14-Dip	.75	.63	.50
TLC274ID	296-1314-5-ND	Quad Precision Op Amp	14-SOIC	.75	.63	.50
TLC274IDR	296-1314-1-ND	Quad Precision Op Amp	14-SOIC	.75	.63	.50
TLC274IDR	296-1314-2-ND	Quad Precision Op Amp	14-SOIC	812.50/2,500		
TLC274IN	296-7362-5-ND	Quad Single-Supply Op Amp	14-Dip	.75	.63	.50
TLC274IPW	296-14197-5-ND	Quad Single-Supply Op Amp	14-TSSOP	.75	.63	.50
TLC274MD	296-7363-5-ND	Quad Single-Supply Op Amp	14-SOIC	.96	.80	.64
TLC274MDRG4	296-22048-1-ND	Quad Single-Supply Op Amp ***NEW!***	14-SOIC	.96	.80	.64
TLC274MDRG4	296-22048-2-ND	Quad Single-Supply Op Amp ***NEW!***	14-SOIC	1040.00/2,500		
TLC277CD	296-7364-5-ND	Dual Precision Single-Supply Op Amp	8-SOIC	1.78	1.42	1.07
TLC277CP	296-1828-5-ND	Dual Precision Op Amp	8-Dip	1.78	1.42	1.07
TLC277ID	296-1829-5-ND	Dual Precision Op Amp	8-SOIC	1.90	1.52	1.14
TLC277IP	296-7365-5-ND	Dual Precision Single-Supply Op Amp	8-Dip	1.90	1.52	1.14

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC279CD	296-7366-5-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	2.25	1.80	1.40
TLC279CN	296-7367-5-ND	Quad Prec. Single-Supply Op Amp	14-Dip	2.25	1.80	1.40
TLC279ID	296-1315-5-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	2.36	1.89	1.47
TLC279IDR	296-1315-1-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	2.63	2.10	1.58
TLC279IDR	296-1315-2-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	3307.50/2,500		
TLC279IN	296-7368-5-ND	Quad Prec. Single-Supply Op Amp	14-Dip	2.36	1.89	1.47
TLC393QDR	296-15027-1-ND	Dual Micropower LinCMOS™ Voltage Comparator	8-SOIC	.87	.73	.58
TLC393QDR	296-15027-2-ND	Dual Micropower LinCMOS™ Voltage Comparator	8-SOIC	942.50/2,500		
TLC555CPSR	296-15028-1-ND	LinCMOS™ Timer	8-SOP	.68	.51	.39
TLC555CPSR	296-15028-2-ND	LinCMOS™ Timer	8-SOP	452.00/2,000		
TLC1078CD	296-10231-5-ND	Dual Micropower Low Voltage Op Amp	8-SOIC	4.93	3.95	3.07
TLC1078CP	296-10232-5-ND	Dual Micropower Low Voltage Op Amp	8-Dip	4.93	3.95	3.07
TLC1078ID	296-10233-5-ND	Dual Micropower Low Voltage Op Amp	8-SOIC	5.13	4.11	3.20
TLC1078IP	296-10234-5-ND	Dual Micropower Low Voltage Op Amp	8-Dip	5.13	4.11	3.20
TLC1079CD	296-10235-5-ND	Quad Micropower Low Volt. Op Amp	14-SOIC	6.08	4.87	4.11
TLC1079CN	296-10236-5-ND	Quad Micropower Low Volt. Op Amp	14-Dip	6.08	4.87	4.11
TLC1079ID	296-10237-5-ND	Quad Micropower Low Volt. Op Amp	14-SOIC	6.36	5.09	4.30
TLC1079IN	296-10238-5-ND	Quad Micropower Low Volt. Op Amp	14-Dip	6.36	5.09	4.30
TLC2201ACD	296-7050-5-ND	Low Noise Precision Op Amp	8-SOIC	3.74	2.99	2.33
TLC2201AID	296-7052-5-ND	Low Noise Precision Op Amp	8-SOIC	3.85	3.08	2.40
TLC2201AMD	296-7054-5-ND	Low Noise Precision Op Amp	8-SOIC	4.70	3.77	2.93
TLC2201CD	296-2425-5-ND	Low Noise Precision R/R Op Amp	8-SOIC	3.53	2.83	2.20
TLC2201CP	296-10241-5-ND	Low Noise Precision R/R Op Amp	8-Dip	3.53	2.83	2.20
TLC2201IDR	296-7061-1-ND	Low Noise Precision R/R Op Amp	8-SOIC	3.74	2.99	2.33
TLC2201IDR	296-7061-2-ND	Low Noise Precision R/R Op Amp	8-SOIC	5230.00/2,500		
TLC2201ID	296-10242-5-ND	Low Noise Precision R/R Op Amp	8-SOIC	3.74	2.99	2.33
TLC2201IP	296-7062-5-ND	Low Noise Precision R/R Op Amp	8-Dip	3.74	2.99	2.33
TLC2202ACD	296-7063-5-ND	Dual Low Noise Precision Op Amp	14-SOIC	5.24	4.20	3.27
TLC2202AID	296-7065-5-ND	Dual Low Noise Precision Op Amp	14-SOIC	5.45	4.36	3.39
TLC2202CD	296-1807-5-ND	Dual Low Noise Precision Op Amp	14-SOIC	5.02	4.02	3.13
TLC2202CP	296-7071-5-ND	Dual Low Noise Precision Op Amp	8-Dip	5.02	4.02	3.13
TLC2202IP	296-7073-5-ND	Dual Low Noise Precision R/R Op Amp	8-Dip	5.24	4.20	3.27
TLC2252AID	296-7074-5-ND	Dual R/R Op Amp	8-SOIC	1.55	1.24	.93
TLC2252AIP	296-7075-5-ND	Dual R/R Op Amp	8-Dip	1.55	1.24	.93
TLC2252AIPWR	296-7076-1-ND	Dual R/R Op Amp	8-TSSOP	1.55	1.24	.93
TLC2252AIPWR	296-7076-2-ND	Dual R/R Op Amp	8-TSSOP	1612.00/2,000		
TLC2252AQD	296-7077-5-ND	Dual R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLC2252AQDREP	296-18139-1-ND	Dual R/R Op Amp	8-SOIC	2.20	1.76	1.32
TLC2252AQDREP	296-18139-2-ND	Dual R/R Op Amp	8-SOIC	2815.00/2,500		
TLC2252CD	296-7078-5-ND	Dual R/R Micropower Op Amp	8-SOIC	1.43	1.14	.86
TLC2252CP	296-7079-5-ND	Dual R/R Micropower Op Amp	8-Dip	1.43	1.14	.86
TLC2252CPWR	296-12745-1-ND	Dual R/R Micropower Op Amp	8-TSSOP	1.71	1.43	1.14
TLC2252CPWR	296-12745-2-ND	Dual R/R Micropower Op Amp	8-TSSOP	1482.00/2,000		
TLC2252ID	296-7080-5-ND	Dual R/R Micropower Op Amp	8-SOIC	1.55	1.24	.93
TLC2252IP	296-7081-5-ND	Dual R/R Micropower Op Amp	8-Dip	1.55	1.24	.93
TLC2252QD	296-7082-5-ND	Dual R/R Micropower Op Amp	8-SOIC	1.55	1.24	.93
TLC2252QDREP	296-22407-1-ND	Dual R/R Micropower Op Amp ***NEW!***	8-SOIC	2.20	1.76	1.32
TLC2252QDREP	296-22407-2-ND	Dual R/R Micropower Op Amp ***NEW!***	8-SOIC	2815.00/2,500		
TLC2254AID	296-7083-5-ND	Quad R/R Op Amp	14-SOIC	1.90	1.52	1.14
TLC2254AIN	296-7084-5-ND	Quad R/R Op Amp	14-Dip	1.90	1.52	1.14
TLC2254AIPWR	296-7085-1-ND	Quad R/R Op Amp	14-TSSOP	1.90	1.52	1.14
TLC2254AIPWR	296-7085-2-ND	Quad R/R Op Amp	14-TSSOP	1976.00/2,000		
TLC2254AQD	296-7086-5-ND	Quad R/R Op Amp	14-SOIC	2.03	1.62	1.22
TLC2254AQDREP	296-18140-1-ND	Quad R/R Op Amp	14-SOIC	2.45	1.97	1.53
TLC2254AQDREP	296-18140-2-ND	Quad R/R Op Amp	14-SOIC	3432.50/2,500		
TLC2254CD	296-1300-5-ND	Quad R/R Micropower Op Amp	14-SOIC	1.78	1.42	1.07
TLC2254CDR	296-1300-1-ND	Quad R/R Micropower Op Amp	14-SOIC	1.78	1.42	1.07
TLC2254CDR	296-1300-2-ND	Quad R/R Micropower Op Amp	14-SOIC	2272.50/2,500		
TLC2254CN	296-7088-5-ND	Quad R/R Micropower Op Amp	14-Dip	1.78	1.42	1.07
TLC2254CPWR	296-7089-1-ND	Quad R/R Micropower Op Amp	14-TSSOP	1.78	1.42	1.07
TLC2254CPWR	296-7089-2-ND	Quad R/R Micropower Op Amp	14-TSSOP	1846.00/2,000		
TLC2254ID	296-1301-5-ND	Quad Low Power Op Amp	14-SOIC	1.78	1.42	1.07
TLC2254IDR	296-1301-1-ND	Quad Low Power Op Amp	14-SOIC	1.78	1.42	1.07
TLC2254IDR	296-1301-2-ND	Quad Low Power Op Amp	14-SOIC	2272.50/2,500		
TLC2254IN	296-7090-5-ND	Quad R/R Micropower Op Amp	14-Dip	1.78	1.42	1.07
TLC2254QD	296-7091-5-ND	Quad R/R Micropower Op Amp	14-SOIC	1.90	1.52	1.14
TLC2254QDREP	296-22408-1-ND	Quad R/R Micropower Op Amp ***NEW!***	14-SOIC	2.30	1.84	1.43
TLC2254QDREP	296-22408-2-ND	Quad R/R Micropower Op Amp ***NEW!***	14-SOIC	3212.50/2,500		
TLC2262AID	296-7092-5-ND	Dual R/R Op Amp	8-SOIC	1.55	1.24	.93
TLC2262AIP	296-7093-5-ND	Dual R/R Op Amp	8-Dip	1.55	1.24	.93
TLC2262AQD	296-7094-5-ND	Dual R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLC2262CD	296-1302-5-ND	Dual R/R Op Amp	8-SOIC	1.43	1.14	.86
TLC2262CDR	296-1302-1-ND	Dual R/R Op Amp	8-SOIC	1.71	1.43	1.14
TLC2262CDR	296-1302-2-ND	Dual R/R Op Amp	8-SOIC	1825.00/2,500		
TLC2262CP	296-7095-5-ND	Dual R/R Op Amp	8-Dip	1.43	1.14	.86
TLC2262CPWR	296-7096-1-ND	Dual R/R Op Amp	8-TSSOP	1.71	1.43	1.14
TLC2262CPWR	296-7096-2-ND	Dual R/R Op Amp	8-TSSOP	1482.00/2,000		
TLC2262ID	296-7097-5-ND	Dual R/R Op Amp	8-SOIC	1.55	1.24	.93
TLC2262IP	296-7098-5-ND	Dual R/R Op Amp	8-Dip	1.55	1.24	.93
TLC2262QD	296-7099-5-ND	Dual R/R Op Amp	8-SOIC	1.55	1.24	.93
TLC2264AID	296-7100-5-ND	Quad R/R Op Amp	14-SOIC	1.90	1.52	1.14
TLC2264AIN	296-7101-5-ND	Quad R/R Op Amp	14-Dip	1.90	1.52	1.14
TLC2264AIPWR	296-13504-1-ND	Quad R/R Op Amp	14-TSSOP	1.90	1.52	1.14
TLC2264AIPWR	296-13504-2-ND	Quad R/R Op Amp	14-TSSOP	1976.00/2,000		
TLC2264AQD	296-7102-5-ND	Quad R/R Op Amp	14-SOIC	2.03	1.62	1.22
TLC2264CD	296-7103-5-ND	Quad R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2264CN	296-7104-5-ND	Quad R/R Op Amp	14-Dip	1.78	1.42	1.07
TLC2264CPWR	296-7105-1-ND	Quad R/R Op Amp	14-TSSOP	1.78	1.42	1.07
TLC2264CPWR	296-7105-2-ND	Quad R/R Op Amp	14-TSSOP	1846.00/2,000		
TLC2264ID	296-7106-5-ND	Quad R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2264IN	296-7107-5-ND	Quad R/R Op Amp	14-Dip	1.78	1.42	1.07
TLC2264QD	296-7108-5-ND	Quad R/R Op Amp	14-SOIC	1.90	1.52	1.14
TLC2272ACD	296-1303-5-ND	Dual R/R Op Amp	8-SOIC	1.38	1.10	.83
TLC2272ACDR	296-1303-1-ND	Dual R/R Op Amp	8-SOIC	1.38	1.10	.83
TLC2272ACDR	296-1303-2-ND	Dual R/R Op Amp	8-SOIC	1760.00/2,500		
TLC2272ACP	296-7109-5-ND	Dual R/R Op Amp	8-Dip	1.38	1.10	.83
TLC2272ACPWR	296-7110-1-ND	Dual R/R Op Amp	8-TSSOP	1.38	1.10	.83
TLC2272ACPWR	296-7110-2-ND	Dual R/R Op Amp	8-TSSOP	1430.00/2,000		
TLC2272AID	296-1304-5-ND	Dual R/R Op Amp	8-SOIC	1.48	1.18	.89
TLC2272AIDR	296-1304-1-ND	Dual R/R Op Amp	8-SOIC	1.48	1.18	.89
TLC2272AIDR	296-1304-2-ND	Dual R/R Op Amp	8-SOIC	1887.50/2,500		
TLC2272AIP	296-7112-5-ND	Dual R/R Op Amp	8-Dip	1.48	1.18	.89
TLC2272AMD	296-7113-5-ND	Dual R/R Op Amp	8-SOIC	1.78	1.42	1.07
TLC2272AMDREP	296-22409-1-ND	Dual R/R Op Amp ***NEW!***	8-SOIC	4.03	3.23	2.51
TLC2272AMDREP	296-22409-2-ND	Dual R/R Op Amp ***NEW!***	8-SOIC	5637.50/2,500		
TLC2272AQD	296-7114-5-ND	Dual R/R Op Amp	8-SOIC	1.58	1.26	.95
TLC2272AQDRQ1	296-15025-1-ND	Dual R/R Op Amp	8-SOIC	1.58	1.26	.95
TLC2272AQDRQ1	296-15025-2-ND	Dual R/R Op Amp	8-SOIC	2015.00/2,500		
TLC2272AQPWRQ1	296-15839-1-ND	Dual R/R Op Amp	8-TSSOP	1.58	1.26	.95
TLC2272AQPWRQ1	296-15839-2-ND	Dual R/R Op Amp	8-TSSOP	1638.00/2,000		
TLC2272CD	296-1305-5-ND	Dual R/R Op Amp	8-SOIC	1.43	1.14	.86
TLC2272CDR	296-1305-1-ND	Dual R/R Op Amp	8-SOIC	1.43	1.14	.86
TLC2272CDR	296-1305-2-ND	Dual R/R Op Amp	8-SOIC	1825.00/2,500		
TLC2272CP	296-1812-5-ND	Dual R/R Op Amp	8-Dip	1.43	1.14	.86
TLC2272CPWR	296-7115-1-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1.43	1.14	.86
TLC2272CPWR	296-7115-2-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1482.00/2,000		
TLC2272ID	296-7116-5-ND	Dual Low Noise R/R Op Amp	8-SOIC	1.55	1.24	.93
TLC2272IP	296-7117-5-ND	Dual Low Noise R/R Op Amp	8-Dip	1.55	1.24	.93
TLC2272IPWR	296-7118-1-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1.55	1.24	.93
TLC2272IPWR	296-7118-2-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1612.00/2,000		
TLC2272MD	296-7119-5-ND	Dual Low Noise R/R Op Amp	8-SOIC	1.90	1.52	1.14
TLC2272MDG4	296-22046-5-ND	Dual Low Noise R/R Op Amp ***NEW!***	8-SOIC	1.90	1.52	1.14
TLC2272QD	296-7120-5-ND	Dual Low Noise R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLC2272QDRQ1	296-15026-1-ND	Dual Low Noise R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLC2272QDRQ1	296-15026-2-ND	Dual Low Noise R/R Op Amp	8-SOIC	2145.00/2,500		
TLC2272QPWRG4	296-22047-1-ND	Dual Low Noise R/R Op Amp ***NEW!***	8-TSSOP	1.68	1.34	1.01
TLC2272QPWRG4	296-22047-2-ND	Dual Low Noise R/R Op Amp ***NEW!***	8-TSSOP	1742.00/2,000		
TLC2272QPWRQ1	296-16951-1-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1.68	1.34	1.01
TLC2272QPWRQ1	296-16951-2-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1742.00/2,000		
TLC2274ACD	296-1813-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.58	1.26	.95
TLC2274ACDR	296-1813-1-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.58	1.26	.95
TLC2274ACDR	296-1813-2-ND	Quad Low Noise R/R Op Amp	14-SOIC	2015.00/2,500		
TLC2274ACN	296-7121-5-ND	Quad Low Noise R/R Op Amp	14-Dip	1.58	1.26	.95
TLC2274ACPWR	296-7122-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.58	1.26	.95
TLC2274ACPWR	296-7122-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1638.00/2,000		
TLC2274AID	296-1814-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.68	1.34	1.01
TLC2274AIN	296-7123-5-ND	Quad Low Noise R/R Op Amp	14-Dip	1.68	1.34	1.01
TLC2274AIPW	296-7125-5-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.68	1.34	1.01
TLC2274AIPWR	296-7125-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.68	1.34	1.01
TLC2274AIPWR	296-7125-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1742.00/2,000		
TLC2274AMD	296-7126-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.00	1.60	1.20
TLC2274AMDREP	296-18141-1-ND	Quad Low Noise R/R Op Amp ***NEW!***	14-SOIC	4.59	3.68	2.86
TLC2274AMDREP	296-18141-2-ND	Quad Low Noise R/R Op Amp ***NEW!***	14-SOIC	6425.00/2,500		
TLC2274AMPWREP	296-21250-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	4.59	3.68	2.86
TLC2274AMPWREP	296-21250-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	5202.00/2,000		
TLC2274AQD	296-7127-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.68	1.34	1.01
TLC2274AQDRQ1	296-16952-1-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2274AQDRQ1	296-16952-2-ND	Quad Low Noise R/R Op Amp	14-SOIC	2272.50/2,500		
TLC2274AQPWRQ1	296-16953-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.78	1.42	1.07
TLC2274AQPWRQ1	296-16953-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1846.00/2,000		
TLC2274CD	296-1306-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2274CDR	296-1306-1-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2274CDR	296-1306-2-ND	Quad Low Noise R/R Op Amp	14-SOIC	2272.50/2,500		
TLC2274CN	296-7129-5-ND	Quad Low Noise R/R Op Amp	14-Dip	1.78	1.42	1.07
TLC2274CPWR	296-7130-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.78	1.42	1.07
TLC2274CPWR	296-7130-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1846.00/2,000		
TLC2274ID	296-7131-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2274IN	296-7132-5-ND	Quad Low Noise R/R Op Amp	14-Dip	1.78	1.42	1.07
TLC2274IPWR	296-7133-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.78	1.42	1.07
TLC2274IPWR	296-7133-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1846.00/2,000		
TLC2274MD	296-7134-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.25	1.80	1.35
TLC2274MDREP	296-22410-1-ND	Quad Low Noise R/R Op Amp ***NEW!***	14-SOIC	4.30	3.44	2.68
TLC2274MDREP	296-22410-2-ND	Quad Low Noise R/R Op Amp ***NEW!***	14-SOIC	6017.50/2,500		
TLC2274MDRG4	296-22545-1-ND	Quad Low Noise R/R Op Amp ***NEW!***	14-SOIC	2.25	1.80	1.35
TLC2274MDRG4	296-22545-2-ND	Quad Low Noise R/R Op Amp ***NEW!***	14-SOIC	2880.00/2,500		
TLC2274MPWREP	296-22411-1-ND	Quad Low Noise R/R Op Amp ***NEW!***	14-TSSOP	4.30	3.44	2.68
TLC2274MPWREP	296-22411-2-ND	Quad Low Noise R/R Op Amp ***NEW!***	14-TSSOP	4870.00/2,000		
TLC2274QD	296-7135-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.90	1.52	1.14
TLC2274QDRG4Q1	296-22546-1-ND	Quad Low Noise R/R Op Amp ***NEW!***	14-SOIC	2.03	1.62	1.22
TLC2274QDRG4Q1	296-22546-2-ND	Quad Low Noise R/R Op Amp ***NEW!***	14-SOIC	2592.50/2,500		
TLC2274QDRQ1	296-16954-1-ND	LinCMOS™ R/R Op Amp	14-SOIC	2.03	1.62	1.22
TLC2274QDRQ1	296-16954-2-ND	LinCMOS™ R/R Op Amp	14-SOIC	2592.50/2,500		
TLC2274QPWRQ1	296-16955-1-ND	LinCMOS™ R/R Op Amp	14-TSSOP	2.03	1.62	1.22
TLC2274QPWRQ1	296-16955-2-ND	LinCMOS™ R/R Op Amp	14-TSSOP	2106.00/2,000		
TLC2652AIP	296-1818-5-ND	Chopper Op Amp	8-Dip	5.13	4.11	3.20
TLC2652AC-8D	296-7316-5-ND	Adv Precision Chopper-Stabilized Op Amp	8-SOIC	4.93	3.95	3.07
TLC2652AC-14D	296-7315-5-ND	Adv Precision Chopper-Stabilized Op Amp	14-SOIC	4.93	3.95	3.07
TLC2652ACN	296-7317-5-ND	Adv Prec. Chopper-Stabilized Op Amp	14-Dip	4.93	3.95	3.07
TLC2652ACP	296-7318-5-ND	Adv Prec. Chopper-Stabilized Op Amp	8-Dip	4.93	3.95	3.07
TLC2652AI-8D	296-7319-5-ND	Adv Prec. Chopper-Stabilized Op Amp	8-SOIC	5.13	4.11	3.20
TLC2652AIN	296-7320-5-ND	Adv Prec. Chopper-Stabilized Op Amp	14-Dip	5.13	4.11	3.20
TLC2652C-8D	296-7321-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	4.70	3.77	2.93
TLC2652CN	296-7322-5-ND	Precision Chopper-Stabilized Op Amp	14-Dip	4.70	3.77	2.93
TLC2652CP	296-7323-5-ND	Precision Chopper-Stabilized Op Amp	8-Dip	4.70	3.77	2.93
TLC2652I-8D	296-7324-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	4.93	3.95	3.07
TLC2652M-8D	296-7325-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	5.32	4.26	3.60
TLC2652Q-8D	296-7326-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	5.13	4.11	3.20
TLC2654AC-8D	296-7327-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-SOIC	3.42	2.74	2.13
TLC2654ACP	296-7328-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-Dip	3.42	2.74	2.13
TLC2654AI-8D	296-7329-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-SOIC	3.65	2.92	2.27
TLC2654AIP	296-7330-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-Dip	3.65	2.92	2.27
TLC2654AQ-8D	296-7331-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-SOIC	3.74	2.99	2.33
TLC2654C-8D	296-7332-5-ND	LN Chopper-Stabilized Op Amp	8-SOIC	3.31	2.65	2.06
TLC2654CN	296-7333-5-ND	LN Chopper-Stabilized Op Amp	14-Dip	3.31	2.65	2.06
TLC2654CP	296-7334-5-ND	LN Chopper-Stabilized Op Amp	8-Dip	3.31	2.65	2.06
TLC2654I-8D	296-7335-5-ND	LN Chopper-Stabilized Op Amp	8-SOIC	3.42	2.74	2.13
TLC2654IP	296-7336-5-ND	LN Chopper-Stabilized Op Amp	8-Dip	3.42	2.74	2.13
TLC2654Q-8D	296-7337-5-ND	LN Chopper-Stabilized Op Amp	8-SOIC	3.65	2.92	2.27

(Continued)

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
TLC4501ACD	296-2426-5-ND	Precision, Rail-to-Rail Op Amp	8-SOIC	2.88	2.31	1.80
TLC4501AID	296-10322-5-ND	High Precision Rail-to-Rail Op Amp	8-SOIC	2.99	2.40	1.87
TLC4501CD	296-10323-5-ND	High Precision Rail-to-Rail Op Amp	8-SOIC	2.79	2.24	1.74
TLC4501IDR	296-10324-1-ND	High Precision Rail-to-Rail Op Amp	8-SOIC	2.88	2.31	1.80
TLC4501IDR	296-10324-2-ND	High Precision Rail-to-Rail Op Amp	8-SOIC	4032.50/2,500		
TLC4502ACD	296-10325-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.16	3.33	2.59
TLC4502AID	296-10326-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.28	3.42	2.66
TLC4502AMD	296-10327-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	5.24	4.20	3.27
TLC4502AQD	296-10328-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.50	3.60	2.80
TLC4502CD	296-10329-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	3.96	3.17	2.47
TLC4502ID	296-10330-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.16	3.33	2.59
TLC4502IDR	296-10330-1-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.16	3.33	2.59
TLC4502IDR	296-10330-2-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	5827.50/2,500		
TLC4502MD	296-10331-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	5.02	4.02	3.13
TLC4502QD	296-13358-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.28	3.42	2.66
TLE2021ACD	296-10353-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.38	1.10	.83
TLE2021ACP	296-10354-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.38	1.10	.83
TLE2021AID	296-10355-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.50	1.20	.90
TLE2021AIP	296-10356-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.50	1.20	.90
TLE2021AQDREP	296-19512-1-ND	HS, Low Power Precision Op Amp	8-SOIC	1.88	1.50	1.13
TLE2021AQDREP	296-19512-2-ND	HS, Low Power Precision Op Amp	8-SOIC	2400.00/2,500		
TLE2021CD	296-10357-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.35	1.13	.90
TLE2021CP	296-10358-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.35	1.13	.90
TLE2021ID	296-10359-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.25	1.00	.75
TLE2021IP	296-10360-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.25	1.00	.75
TLE2021MD	296-10361-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.50	1.20	.90
TLE2021QDREP	296-22419-1-ND	High Speed, Low Power Precision Op Amp ***NEW!***	8-SOIC	1.70	1.36	1.02
TLE2021QDREP	296-22419-2-ND	High Speed, Low Power Precision Op Amp ***NEW!***	8-SOIC	2175.00/2,500		
TLE2022ACD	296-12304-5-ND	Dual HS, LP Precision Op Amp	8-SOIC	2.36	1.89	1.47
TLE2022ACP	296-10362-5-ND	Dual High Speed, LP Precision Op Amp	8-Dip	2.36	1.89	1.47
TLE2022AID	296-10363-5-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	2.59	2.07	1.61
TLE2022AIP	296-10364-5-ND	Dual High Speed, LP Precision Op Amp	8-Dip	2.59	2.07	1.61
TLE2022AMD	296-10365-5-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	2.93	2.34	1.82
TLE2022AQDREP	296-18144-1-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	3.51	2.81	2.19
TLE2022AQDREP	296-18144-2-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	4915.00/2,500		
TLE2022CD	296-1873-5-ND	Dual JFET-Input Op Amp	8-SOIC	1.88	1.50	1.13
TLE2022CP	296-10366-5-ND	Dual High Speed, LP Precision Op Amp	8-Dip	1.88	1.50	1.13
TLE2022ID	296-10367-5-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	2.00	1.60	1.20
TLE2022IP	296-10368-5-ND	Dual High Speed, LP Precision Op Amp	8-Dip	2.00	1.60	1.20
TLE2022MD	296-10369-5-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	2.38	1.90	1.43
TLE2022QDREP	296-19513-1-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	2.45	1.97	1.53
TLE2022QDREP	296-19513-2-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	3432.50/2,500		
TLE2024ACDW	296-10370-5-ND	Quad High Speed, LP Op Amp	16-SOIC	3.71	2.97	2.31
TLE2024ACN	296-10371-5-ND	Quad High Speed, LP Op Amp	14-Dip	3.71	2.97	2.31
TLE2024AIDW	296-10372-5-ND	Quad High Speed, LP Op Amp	16-SOIC	4.05	3.24	2.52
TLE2024AIN	296-10373-5-ND	Quad High Speed, LP Op Amp	14-Dip	4.05	3.24	2.52
TLE2024AQDWREP	296-18145-1-ND	Quad High Speed, LP Op Amp	16-SOIC	5.04	4.04	3.14
TLE2024AQDWREP	296-18145-2-ND	Quad High Speed, LP Op Amp	16-SOIC	5712.00/2,000		
TLE2024BMDW	296-10374-5-ND	Quad High Speed, LP Op Amp	16-SOIC	4.61	3.69	2.87
TLE2024CDW	296-10375-5-ND	Quad High Speed, LP Op Amp	16-SOIC	3.26	2.61	2.03
TLE2024CN	296-10376-5-ND	Quad High Speed, LP Op Amp	14-Dip	3.26	2.61	2.03
TLE2024IDW	296-10377-5-ND	Quad High Speed, LP Op Amp	16-SOIC	3.49	2.79	2.17
TLE2024IN	296-10378-5-ND	Quad High Speed, LP Op Amp	14-Dip	3.49	2.79	2.17
TLE2024MDW	296-10379-5-ND	Quad High Speed, LP Op Amp	16-SOIC	4.16	3.33	2.59
TLE2024QDWREP	296-22420-1-ND	Quad High Speed, LP Op Amp ***NEW!***	16-SOIC	4.43	3.55	2.76
TLE2024QDWREP	296-22420-2-ND	Quad High Speed, LP Op Amp ***NEW!***	16-SOIC	5024.00/2,000		
TLE2027AMD	296-10380-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.81	2.25	1.75
TLE2027CD	296-10381-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.25	1.80	1.35
TLE2027CDR	296-10381-1-ND	Low Noise, High Speed Op Amp	8-SOIC	2.25	1.80	1.35
TLE2027CDR	296-10381-2-ND	Low Noise, High Speed Op Amp	8-SOIC	2880.00/2,500		
TLE2027ID	296-10383-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.38	1.90	1.43
TLE2027MD	296-10385-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.59	2.07	1.61
TLE2027MDREP	296-22421-1-ND	Low Noise, HS Op Amp ***NEW!***	8-SOIC	6.90	5.52	4.66
TLE2027MDREP	296-22421-2-ND	Low Noise, HS Op Amp ***NEW!***	8-SOIC	10695.00/2,500		
TLE2037CD	296-10386-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.25	1.80	1.35
TLE2037ID	296-10388-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.38	1.90	1.43
TLE2037MD	296-10389-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.59	2.07	1.61
TLE2061ACD	296-10390-5-ND	Low Power JFET Op Amp	8-SOIC	1.88	1.50	1.13
TLE2061AID	296-10391-5-ND	Low Power JFET Op Amp	8-SOIC	2.00	1.60	1.20
TLE2061AIP	296-10392-5-ND	Low Power JFET Op Amp	8-Dip	2.00	1.60	1.20
TLE2061CD	296-10393-5-ND	Low Power JFET Op Amp	8-SOIC	1.63	1.30	.98
TLE2061CP	296-10394-5-ND	Low Power JFET Op Amp	8-Dip	1.63	1.30	.98
TLE2061MD	296-10395-5-ND	Low Power JFET Op Amp	8-SOIC	2.13	1.70	1.28
TLE2062ACD	296-10396-5-ND	Dual Low Power JFET Op Amp	8-SOIC	3.26	2.61	2.03
TLE2062AID	296-10397-5-ND	Dual Low Power JFET Op Amp	8-SOIC	3.49	2.79	2.17
TLE2062AMD	296-10399-5-ND	Dual Low Power JFET Op Amp	8-SOIC	3.94	3.15	2.45
TLE2062CD	296-1341-5-ND	Dual Low Power JFET Op Amp	8-SOIC	2.25	1.80	1.40
TLE2062CDR	296-1341-1-ND	Dual JFET-Input Op Amp	8-SOIC	3.00	2.50	2.00
TLE2062CDR	296-1341-2-ND	Dual JFET-Input Op Amp	8-SOIC	3150.00/2,500		
TLE2062CP	296-10401-5-ND	Dual Low Power JFET Op Amp	8-Dip	2.25	1.80	1.40
TLE2062ID	296-10402-5-ND	Dual Low Power JFET Op Amp	8-SOIC	2.48	1.98	1.54
TLE2062IP	296-10403-5-ND	Dual Low Power JFET Op Amp	8-Dip	2.48	1.98	1.54
TLE2062MD	296-10404-5-ND	Dual Low Power JFET Op Amp	8-SOIC	2.93	2.34	1.82
TLE2064ACD	296-10405-5-ND	Quad Low Power JFET Op Amp	14-SOIC	5.29	4.23	3.29
TLE2064ACN	296-10406-5-ND	Quad Low Power JFET Op Amp	14-Dip	5.29	4.23	3.29
TLE2064AID	296-10407-5-ND	Quad Low Power JFET Op Amp	14-SOIC	5.00	4.00	3.38
TLE2064AMD	296-10408-5-ND	Quad Low Power JFET Op Amp	14-SOIC	5.70	4.56	3.85
TLE2064CD	296-10409-5-ND	Quad Low Power JFET Op Amp	14-SOIC	3.71	2.97	2.31
TLE2064CN	296-10410-5-ND	Quad Low Power JFET Op Amp	14-Dip	3.71	2.97	2.31
TLE2064ID	296-10411-5-ND	Quad Low Power JFET Op Amp	14-SOIC	4.05	3.24	2.52
TLE2064IN	296-10412-5-ND	Quad Low Power JFET Op Amp	14-Dip	4.05	3.24	2.52
TLE2064MD	296-10413-5-ND	Quad Low Power JFET Op Amp	14-SOIC	4.73	3.78	2.94
TLE2071ACD	296-10414-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.75	1.40	1.05
TLE2071ACP	296-10415-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.75	1.40	1.05
TLE2071AID	296-10416-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.88	1.50	1.13
TLE2071AIP	296-10417-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.88	1.50	1.13
TLE2071AQDRQ1	296-17920-1-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	2.00	1.60	1.20
TLE2071AQDRQ1	296-17920-2-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	2560.00/2,500		
TLE2071CD	296-10418-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.50	1.20	.90
TLE2071CP	296-10419-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.50	1.20	.90
TLE2071ID	296-10420-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.75	1.40	1.05
TLE2071IP	296-10421-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.75	1.40	1.05
TLE2072ACD	296-10422-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.70	2.16	1.68
TLE2072ACP	296-10423-5-ND	Dual LN, High Speed JFET Op Amp	8-Dip	2.70	2.16	1.68
TLE2072AID	296-10424-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.93	2.34	1.82
TLE2072AQDRG4Q1	296-22580-1-ND	Dual Low Noise, High Speed, JFET Op Amp ***NEW!***	8-SOIC	3.15	2.52	1.96
TLE2072AQDRG4Q1	296-22580-2-ND	Dual Low Noise, High Speed, JFET Op Amp ***NEW!***	8-SOIC	4410.00/2,500		
TLE2072CD	296-1342-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.25	1.80	1.40
TLE2072CDR	296-1342-1-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.25	1.80	1.40
TLE2072CDR	296-1342-2-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	3150.00/2,500		
TLE2072CP	296-10426-5-ND	Dual LN, High Speed JFET Op Amp	8-Dip	2.25	1.80	1.40
TLE2072ID	296-10427-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.48	1.98	1.54
TLE2074ACDW	296-10428-5-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	4.95	3.96	3.08
TLE2074ACN	296-10429-5-ND	Quad LN, High Speed JFET Op Amp	14-Dip	4.95	3.96	3.08
TLE2074AIDW	296-10430-5-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	5.40	4.32	3.36
TLE2074CDWR	296-10431-1-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	4.28	3.42	2.66
TLE2074CDWR	296-10431-2-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	4846.00/2,000		
TLE2074CN	296-10432-5-ND	Quad LN, High Speed JFET Op Amp	14-Dip	4.28	3.42	2.66
TLE2074IDW	296-10433-5-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	4.73	3.78	2.94
TLE2074IN	296-10434-5-ND	Quad LN, High Speed JFET Op Amp	14-Dip	4.73	3.78	2.94
TLE2081ACD	296-10435-5-ND	High Speed JFET-In Op Amp	8-SOIC	1.63	1.30	.98
TLE2081ACP	296-10436-5-ND	High Speed JFET-In Op Amp	8-Dip	1.63	1.30	.98
TLE2081CD	296-10437-5-ND	High Speed JFET-In Op Amp	8-SOIC	1.38	1.10	.83
TLE2081CP	296-10438-5-ND	High Speed JFET-In Op Amp	8-Dip	1.38	1.10	.83
TLE2081ID	296-10439-5-ND	High Speed JFET-In Op Amp	8-SOIC	1.63	1.30	.98
TLE2082ACD	296-10440-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	2.36	1.89	1.47
TLE2082ACP	296-10441-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	2.25	1.80	1.35
TLE2082AID	296-10442-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	2.48	1.98	1.54
TLE2082AIP	296-10443-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	2.48	1.98	1.54
TLE2082CD	296-10444-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	2.25	1.80	1.35
TLE2082CP	296-1874-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	2.25	1.80	1.35
TLE2082ID	296-1343-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	2.25	1.80	1.40
TLE2082IDR	296-1343-1-ND	Dual High Speed JFET-In Op Amp	8-SOIC	2.25	1.80	1.40
TLE2082IDR	296-1343-2-ND	Dual High Speed JFET-In Op Amp	8-SOIC	3150.00/2,500		
TLE2082IP	296-10446-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	2.25	1.80	1.40
TLE2084ACDW	296-10447-5-ND	Quad High Speed JFET Op Amp	16-SOIC	4.50	3.60	2.80
TLE2084ACN	296-10448-5-ND	Quad High Speed JFET Op Amp	14-Dip	4.50	3.60	2.80
TLE2084CDW	296-10449-5-ND	Quad High Speed JFET Op Amp	16-SOIC	3.94	3.15	2.45
TLE2084CN	296-10450-5-ND	Quad High Speed JFET Op Amp	14-Dip	3.94	3.15	2.45
TLE2084IDW	296-10451-5-ND	Quad High Speed JFET Op Amp	16-SOIC	4.28	3.42	2.66
TLE2141ACD	296-10452-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-SOIC	1.63	1.30	.98
TLE2141ACP	296-10453-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-Dip	1.63	1.30	.98
TLE2141AID	296-10454-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-SOIC	1.75	1.40	1.05
TLE2141AIP	296-13361-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-Dip	1.75	1.40	1.05
TLE2141CD	296-10455-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-SOIC	1.38	1.10	.83
TLE2141CP	296-10456-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-Dip	1.38	1.10	.83
TLE2141ID	296-10457-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-SOIC	1.50	1.20	.90
TLE2141IP	296-10458-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-Dip	1.50	1.20	.90
TLE2142ACD	296-10459-5-ND	Dual High Speed Precision Op Amp	8-SOIC	3.26	2.61	2.03
TLE2142AID	296-10461-5-ND	Dual High Speed Precision Op Amp	8-SOIC	3.49	2.79	2.17
TLE2142AMD	296-1875-5-ND	Dual High Speed Precision Op Amp	8-SOIC	3.83	3.06	2.38
TLE2142AMDRG4	296-22050-1-ND	Dual High Speed Prec. Op Amp ***NEW!***	8-SOIC	3.83	3.06	2.38
TLE2142AMDRG4	296-22050-2-ND	Dual High Speed Prec. Op Amp ***NEW!***	8-SOIC	5355.00/2,500		
TLE2142CD	296-10463-5-ND	Dual High Speed Precision Op Amp	8-SOIC	2.13	1.70	1.28
TLE2142CP	296-10464-5-ND	Dual High Speed Precision Op Amp	8-Dip	2.13	1.70	1.28
TLE2142CPWR	296-10465-1-ND	Dual High Speed Precision Op Amp	16-TSSOP	2.13	1.70	1.28
TLE2142CPWR	296-10465-2-ND	Dual High Speed Precision Op Amp	16-TSSOP	2210.00/2,000		
TLE2142ID	296-10466-5-ND	Dual High Speed Precision Op Amp	8-SOIC	2.38	1.90	1.43
TLE2142IP	296-10467-5-ND	Dual High Speed Precision Op Amp	8-Dip	2.38	1.90	1.43
TLE2142MD	296-10468-5-ND	Dual High Speed Precision Op Amp	8-SOIC	2.59	2.07	1.61
TLE2144ACN	296-10469-5-ND	Quad High Speed Precision Op Amp	14-Dip	4.50	3.60	2.80
TLE2144AIN	296-10470-5-ND	Quad High Speed Precision Op Amp	14-Dip	4.84	3.87	3.01
TLE2144CDW	296-10471-5-ND	Quad High Speed Precision Op Amp	16-SOIC	3.94	3.15	2.45
TLE2144CN	296-10472-5-ND	Quad High Speed Precision Op Amp	14-Dip	3.94	3.15	2.45
TLE2144IDW	296-10473-5-ND	Quad High Speed Precision Op Amp	16-SOIC	4.28	3.42	2.66
TLE2144IN	296-10474-5-ND	Quad High Speed Precision Op Amp	14-Dip	4.28	3.42	2.66
TLE2144MDW	296-10475-5-ND	Quad High Speed Precision Op Amp	16-SOIC	5.06	4.05	3.15
TLE2161ACD	296-10476-5-ND	Low Power JFET Op Amp	8-SOIC	1.63	1.30	.98
TLE2161AID	296-10478-5-ND	Low Power JFET Op Amp	8-SOIC	1.75	1.40	1.05
TLE2161CD	296-10480-5-ND	Low Power JFET Op Amp	8-SOIC	1.38	1.10	.83
TLE2161ID	296-10482-5-ND	Low Power JFET Op Amp	8-SOIC	1.63	1.30	.98
TLS1233N	296-10491-5-ND	Wide Band Video Preamp System	20-Dip	1.78	1.42	1.07
TLV27L1IDBVR	296-12228-1-ND	1-Channel, R/R, Output Op Amp	SOT-23-5	1.11	.93	.74
TLV27L1IDBVR	296-12228-2-ND	1-Channel, R/R, Output Op Amp	SOT-23-5	1443.00/3,000		
TLV27L1IDR	296-12229-1-ND	1-Channel, R/R, Output Op Amp	8-SOIC	1.11	.93	.74
TLV27L1IDR	296-12229-2-ND	1-Channel, R/R, Output Op Amp	8-SOIC	1202.50/2,500		
TLV27L2CDGKR	296-17057-1-ND	2-Channel, R/R, Output Op Amp	8-VSSOP	2.00	1.50	1.13
TLV27L2CDGKR	296-17057-2-ND	2-Channel, R/R, Output Op Amp	8-VSSOP	1600.00/2,500		
TLV27L2IDR	296-12230-1-ND	2-Channel, R/R, Output Op Amp	8-SOIC	1.25	1.00	.75
TLV27L2IDR	296-12230-2-ND	2-Channel, R/R, Output Op Amp	8-SOIC	1600.00/2,500		
TLV271ID	296-12300-5-ND	550µA/Ch., 3MHz, R/R, Output Op Amp	8-SOIC	.96	.72	.54
TLV271IDBVR	296-13371-1-ND	550µA/Ch., 3MHz, R/R, Output Op Amp	SOT-23-5	.96	.72	.54

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLV271IDBVR	296-13371-2-ND	550µA/Ch., 3MHz, R/R, Output Op Amp	SOT-23-5	936.00/3,000		
TLV272IDGKR	296-11946-1-ND	Dual Rail-to-Rail Output Op Amp	8-MSOP	.84	.70	.56
TLV272IDGKR	296-11946-2-ND	Dual Rail-to-Rail Output Op Amp	8-MSOP	910.00/2,500		
TLV272IDR	296-10655-1-ND	Dual Rail-to-Rail Output Op Amp	8-SOIC	.84	.70	.56
TLV272IDR	296-10655-2-ND	Dual Rail-to-Rail Output Op Amp	8-SOIC	910.00/2,500		
TLV272IP	296-12671-5-ND	Dual Rail-to-Rail Output Op Amp	8-Dip	.84	.70	.56
TLV272QDRQ1	296-17870-1-ND	Dual Rail-to-Rail Output Op Amp	8-SOIC	.93	.78	.62
TLV272QDRQ1	296-17870-2-ND	Dual Rail-to-Rail Output Op Amp	8-SOIC	1007.50/2,500		
TLV274CPWR	296-12286-1-ND	Quad 3MHz R/R Out Op Amp	14-TSSOP	1.08	.90	.72
TLV274CPWR	296-12286-2-ND	Quad 3MHz R/R Out Op Amp	14-TSSOP	958.00/2,000		
TLV274IDR	296-11981-1-ND	Quad 3MHz R/R Out Op Amp	14-SOIC	1.14	.95	.76
TLV274IDR	296-11981-2-ND	Quad 3MHz R/R Out Op Amp	14-SOIC	1235.00/2,500		
TLV274IN	296-14379-5-ND	Quad 3MHz R/R Out Op Amp	14-Dip	1.14	.95	.76
TLV274IPWR	296-11982-1-ND	Quad 3MHz R/R Out Op Amp	14-TSSOP	1.14	.95	.76
TLV274IPWR	296-11982-2-ND	Quad 3MHz R/R Out Op Amp	14-TSSOP	1010.00/2,000		
TLV274QDRQ1	296-18300-1-ND	Quad 3MHz R/R Out Op Amp	14-SOIC	1.23	1.03	.82
TLV274QDRQ1	296-18300-2-ND	Quad 3MHz R/R Out Op Amp	14-SOIC	1332.50/2,500		
TLV341AIDBVR	296-17680-1-ND	Low Voltage Rail-to-Rail Output CMOS Op Amp	SOT-23-6	.96	.80	.64
TLV341AIDBVR	296-17680-2-ND	Low Voltage Rail-to-Rail Output CMOS Op Amp	SOT-23-6	1248.00/3,000		
TLV341AIDCKR	296-17681-1-ND	Low Voltage Rail-to-Rail Output CMOS Op Amp	SC70-6	.96	.80	.64
TLV341AIDCKR	296-17681-2-ND	Low Voltage Rail-to-Rail Output CMOS Op Amp	SC70-6	1248.00/3,000		
TLV341IDBVR	296-17682-1-ND	Low Voltage Rail-to-Rail Output CMOS Op Amp	SOT-23-6	.81	.68	.54
TLV341IDBVR	296-17682-2-ND	Low Voltage Rail-to-Rail Output CMOS Op Amp	SOT-23-6	1053.00/3,000		
TLV341IDCKR	296-17683-1-ND	Low Voltage Rail-to-Rail Output CMOS Op Amp	SC70-6	.81	.68	.54
TLV341IDCKR	296-17683-2-ND	Low Voltage Rail-to-Rail Output CMOS Op Amp	SC70-6	1053.00/3,000		
TLV341IDRLR	296-21126-1-ND	Low Voltage Rail-to-Rail Output CMOS Op Amp	SOT-563-6	1.05	.88	.70
TLV341IDRLR	296-21126-2-ND	Low Voltage Rail-to-Rail Output CMOS Op Amp	SOT-563-6	1820.00/4,000		
TLV342AIDR	296-21127-1-ND	Dual Low Voltage Rail-to-Rail Output CMOS Op Amp	8-SOIC	1.05	.88	.70
TLV342AIDR	296-21127-2-ND	Dual Low Voltage Rail-to-Rail Output CMOS Op Amp	8-SOIC	1137.50/2,500		
TLV342IDGKR	296-22848-1-ND	Dual Low Voltage Rail-to-Rail Output CMOS Op Amp ***NEW!***	8-MSOP	.96	.80	.64
TLV342IDGKR	296-22848-2-ND	Dual Low Voltage Rail-to-Rail Output CMOS Op Amp ***NEW!***	8-MSOP	1040.00/2,500		
TLV342IDR	296-21128-1-ND	Dual Low Voltage Rail-to-Rail Output CMOS Op Amp	8-SOIC	.87	.73	.58
TLV342IDR	296-21128-2-ND	Dual Low Voltage Rail-to-Rail Output CMOS Op Amp	8-SOIC	942.50/2,500		
TLV1391IDBVR	296-17618-1-ND	Single Differential Comparator	SOT-23-5	.75	.63	.50
TLV1391IDBVR	296-17618-2-ND	Single Differential Comparator	SOT-23-5	975.00/3,000		
TLV2211CDBVR	296-10500-1-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1.20	1.00	.80
TLV2211CDBVR	296-10500-2-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1560.00/3,000		
TLV2211IDBVR	296-10501-1-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1.26	1.05	.84
TLV2211IDBVR	296-10501-2-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1638.00/3,000		
TLV2221CDBVR	296-10504-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.20	1.00	.80
TLV2221CDBVR	296-10504-2-ND	Rail-to-Rail Op Amp	SOT-23-5	1560.00/3,000		
TLV2231CDBVR	296-12189-1-ND	Low Power Rail-to-Rail Op Amp	SOT-23-5	1.20	1.00	.80
TLV2231CDBVR	296-12189-2-ND	Low Power Rail-to-Rail Op Amp	SOT-23-5	1560.00/3,000		
TLV2231IDBVR	296-10505-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.26	1.05	.84
TLV2231IDBVR	296-10505-2-ND	Rail-to-Rail Op Amp	SOT-23-5	1638.00/3,000		
TLV2231IDBVT	296-17096-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.38	1.15	.92
TLV2231IDBVT	296-17096-2-ND	Rail-to-Rail Op Amp	SOT-23-5	172.50/250		
TLV2241IDBVT	296-10506-1-ND	Micropower Rail-to-Rail Op Amp	SOT-23-5	1.68	1.34	1.01
TLV2241IDBVT	296-10506-2-ND	Micropower Rail-to-Rail Op Amp	SOT-23-5	234.50/250		
TLV2241IDR	296-10507-1-ND	Micropower Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2241IDR	296-10507-2-ND	Micropower Rail-to-Rail Op Amp	8-SOIC	1985.00/2,500		
TLV2241IP	296-10508-5-ND	Micropower Rail-to-Rail Op Amp	8-Dip	1.55	1.24	.93
TLV2242IDGKR	296-10509-1-ND	Dual Micropower R/R Op Amp	8-MSOP	2.15	1.72	1.29
TLV2242IDGKR	296-10509-2-ND	Dual Micropower R/R Op Amp	8-MSOP	2752.50/2,500		
TLV2242IDR	296-10510-1-ND	Dual Micropower R/R Op Amp	8-SOIC	2.15	1.72	1.29
TLV2242IDR	296-10510-2-ND	Dual Micropower R/R Op Amp	8-SOIC	2752.50/2,500		
TLV2244IDR	296-10511-1-ND	Quad Micropower R/R Op Amp	14-SOIC	2.45	1.97	1.53
TLV2244IDR	296-10511-2-ND	Quad Micropower R/R Op Amp	14-SOIC	3432.50/2,500		
TLV2244IPW	296-10512-5-ND	Quad Micropower R/R Op Amp	14-TSSOP	2.45	1.97	1.53
TLV2252AID	296-7430-5-ND	Dual Low Voltage R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLV2252AIP	296-7431-5-ND	Dual Low Voltage R/R Op Amp	8-Dip	1.68	1.34	1.01
TLV2252AIPW	296-7432-5-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	1.68	1.34	1.01
TLV2252AQD	296-7433-5-ND	Dual Low Voltage R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLV2252AQDREP	296-22423-1-ND	Dual Low Volt. R/R Op Amp ***NEW!***	8-SOIC	2.38	1.90	1.43
TLV2252AQDREP	296-22423-2-ND	Dual Low Volt. R/R Op Amp ***NEW!***	8-SOIC	3040.00/2,500		
TLV2252AQDRQ1	296-18022-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLV2252AQDRQ1	296-18022-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	2145.00/2,500		
TLV2252ID	296-7434-5-ND	Dual LP Low Voltage R/R Op Amp	8-SOIC	1.55	1.24	.93
TLV2252IP	296-7435-5-ND	Dual LP Low Voltage R/R Op Amp	8-Dip	1.55	1.24	.93
TLV2252QD	296-7436-5-ND	Dual LP Low Voltage R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLV2252QDREP	296-22424-1-ND	Dual LP Low Volt. R/R Op Amp ***NEW!***	8-SOIC	2.20	1.76	1.32
TLV2252QDREP	296-22424-2-ND	Dual LP Low Volt. R/R Op Amp ***NEW!***	8-SOIC	2815.00/2,500		
TLV2254AID	296-7437-5-ND	Quad Low Voltage R/R Op Amp	14-SOIC	2.36	1.89	1.47
TLV2254AIN	296-7438-5-ND	Quad Low Voltage R/R Op Amp	14-Dip	2.36	1.89	1.47
TLV2254AIPWR	296-7439-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	2.36	1.89	1.47
TLV2254AIPWR	296-7439-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	2678.00/2,000		
TLV2254AQD	296-7440-5-ND	Quad Low Voltage R/R Op Amp	14-SOIC	2.45	1.97	1.53
TLV2254AQDREP	296-22425-1-ND	Quad Low Volt. R/R Op Amp ***NEW!***	14-SOIC	3.38	2.70	2.10
TLV2254AQDREP	296-22425-2-ND	Quad Low Volt. R/R Op Amp ***NEW!***	14-SOIC	4725.00/2,500		
TLV2254ID	296-7441-5-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	2.25	1.80	1.40
TLV2254IN	296-7442-5-ND	Quad LP Low Voltage R/R Op Amp	14-Dip	2.25	1.80	1.40
TLV2254QDREP	296-22426-1-ND	Quad LP Low Voltage R/R Op Amp ***NEW!***	14-SOIC	3.22	2.58	2.01
TLV2254QDREP	296-22426-2-ND	Quad LP Low Voltage R/R Op Amp ***NEW!***	14-SOIC	4505.00/2,500		
TLV2262AID	296-7443-5-ND	Dual Advanced R/R Op Amp	8-SOIC	2.03	1.62	1.22
TLV2262AIP	296-7444-5-ND	Dual Advanced R/R Op Amp	8-Dip	2.03	1.62	1.22
TLV2262AIPWR	296-14378-1-ND	Dual Advanced R/R Op Amp	8-TSSOP	2.03	1.62	1.22
TLV2262AIPWR	296-14378-2-ND	Dual Advanced R/R Op Amp	8-TSSOP	2106.00/2,000		
TLV2262AQD	296-7445-5-ND	Dual Advanced R/R Op Amp	8-SOIC	2.15	1.72	1.29
TLV2262ID	296-7446-5-ND	Dual LP Low Voltage R/R Op Amp	8-SOIC	1.55	1.24	.93
TLV2262IP	296-7447-5-ND	Dual LP Low Voltage R/R Op Amp	8-Dip	1.55	1.24	.93
TLV2262IPWR	296-7448-1-ND	Dual LP Low Voltage R/R Op Amp	8-TSSOP	1.55	1.24	.93
TLV2262IPWR	296-7448-2-ND	Dual LP Low Voltage R/R Op Amp	8-TSSOP	1612.00/2,000		
TLV2262QD	296-7449-5-ND	Dual LP Low Voltage R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLV2264AID	296-7450-5-ND	Quad Advanced Rail-to-Rail Op Amp	14-SOIC	2.57	2.06	1.60
TLV2264AIN	296-7451-5-ND	Quad Advanced Rail-to-Rail Op Amp	14-Dip	2.57	2.06	1.60
TLV2264AIPWR	296-7452-1-ND	Quad Adv. Rail-to-Rail Op Amp	14-TSSOP	2.57	2.06	1.60
TLV2264AIPWR	296-7452-2-ND	Quad Adv. Rail-to-Rail Op Amp	14-TSSOP	2908.00/2,000		
TLV2264IDR	296-7454-1-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	2.36	1.89	1.47
TLV2264IDR	296-7454-2-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	3307.50/2,500		
TLV2264IN	296-7455-5-ND	Quad LP Low Voltage R/R Op Amp	14-Dip	2.36	1.89	1.47
TLV2264IPWR	296-7456-1-ND	Quad LP Low Voltage R/R Op Amp	14-TSSOP	2.36	1.89	1.47
TLV2264IPWR	296-7456-2-ND	Quad LP Low Voltage R/R Op Amp	14-TSSOP	2678.00/2,000		
TLV2264QD	296-7457-5-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	2.57	2.06	1.60
TLV2302IDGKR	296-12307-1-ND	Op Amp with O/C Comparator	8-MSOP	1.68	1.34	1.01
TLV2302IDGKR	296-12307-2-ND	Op Amp with O/C Comparator	8-MSOP	2145.00/2,500		
TLV2302IDR	296-10513-1-ND	Op Amp with O/C Comparator	8-SOIC	1.68	1.34	1.01
TLV2302IDR	296-10513-2-ND	Op Amp with O/C Comparator	8-SOIC	2145.00/2,500		
TLV2302IP	296-10514-5-ND	Op Amp with O/C Comparator	8-Dip	1.68	1.34	1.01
TLV2304IDR	296-10515-1-ND	Dual Op Amp with Dual O/C Comparator	14-SOIC	2.45	1.97	1.53
TLV2304IDR	296-10515-2-ND	Dual Op Amp with Dual O/C Comparator	14-SOIC	3432.50/2,500		
TLV2304IN	296-12041-5-ND	Dual Op Amp with Dual O/C Comparator	14-Dip	2.45	1.97	1.53
TLV2304IPWR	296-10516-1-ND	Dual Op Amp with Dual O/C Comparator	14-TSSOP	2.45	1.97	1.53
TLV2304IPWR	296-10516-2-ND	Dual Op Amp with Dual O/C Comparator	14-TSSOP	2780.00/2,000		
TLV2322ID	296-7458-5-ND	Dual Low Volt. Micropower Op Amp	8-SOIC	1.68	1.34	1.01
TLV2322IP	296-7459-5-ND	Dual Low Volt. Micropower Op Amp	8-Dip	1.68	1.34	1.01
TLV2322IPWR	296-7460-1-ND	Dual Low Volt. Micropower Op Amp	8-TSSOP	1.68	1.34	1.01
TLV2322IPWR	296-7460-2-ND	Dual Low Volt. Micropower Op Amp	8-TSSOP	1742.00/2,000		
TLV2324ID	296-7461-5-ND	Quad Low Volt. Micropower Op Amp	14-SOIC	2.36	1.89	1.47
TLV2324IN	296-7462-5-ND	Quad Low Volt. Micropower Op Amp	14-Dip	2.36	1.89	1.47
TLV2324IPWR	296-7464-1-ND	Quad Low Volt. Micropower Op Amp	14-TSSOP	2.36	1.89	1.47
TLV2324IPWR	296-7464-2-ND	Quad Low Volt. Micropower Op Amp	14-TSSOP	2678.00/2,000		
TLV2332ID	296-7465-5-ND	Dual LP Low Voltage Op Amp	8-SOIC	1.44	1.20	.96
TLV2332IP	296-7466-5-ND	Dual LP Low Voltage Op Amp	8-Dip	1.44	1.20	.96
TLV2332IPWR	296-7467-1-ND	Dual LP Low Voltage Op Amp	8-TSSOP	1.44	1.20	.96
TLV2332IPWR	296-7467-2-ND	Dual LP Low Voltage Op Amp	8-TSSOP	1276.00/2,000		
TLV2334ID	296-7468-5-ND	Quad LP Low Voltage Op Amp	14-SOIC	2.45	1.97	1.53
TLV2334IN	296-7469-5-ND	Quad LP Low Voltage Op Amp	14-Dip	2.45	1.97	1.53
TLV2334IPWR	296-7470-1-ND	Quad LP Low Voltage Op Amp	14-TSSOP	2.45	1.97	1.53
TLV2334IPWR	296-7470-2-ND	Quad LP Low Voltage Op Amp	14-TSSOP	2780.00/2,000		
TLV2341ID	296-7471-5-ND	Low Voltage Programmable Op Amp	8-SOIC	1.55	1.24	.93
TLV2341IP	296-7472-5-ND	Low Voltage Programmable Op Amp	8-Dip	1.55	1.24	.93
TLV2342ID	296-7473-5-ND	Dual Low Voltage High-Speed Op Amp	8-SOIC	2.38	1.90	1.43
TLV2342IP	296-7474-5-ND	Dual Low Voltage High-Speed Op Amp	8-Dip	2.38	1.90	1.43
TLV2344ID	296-7475-5-ND	Quad Low Voltage HS Op Amp	14-SOIC	2.88	2.31	1.80
TLV2344IN	296-7476-5-ND	Quad Low Voltage HS Op Amp	14-Dip	2.88	2.31	1.80
TLV2361CDBV	296-10523-5-ND	High Perf. Low Voltage Op Amp	SOT-23-5	.87	.73	.58
TLV2361CDBVR	296-13798-1-ND	High Perf. Low Voltage Op Amp	SOT-23-5	.80	.60	.45
TLV2361CDBVR	296-13798-2-ND	High Perf. Low Voltage Op Amp	SOT-23-5	780.00/3,000		
TLV2361IDBVR	296-13745-1-ND	High Perf. Low Voltage Op Amp	SOT-23-5	.75	.63	.50
TLV2361IDBVR	296-13745-2-ND	High Perf. Low Voltage Op Amp	SOT-23-5	975.00/3,000		
TLV2362IDGKR	296-13995-1-ND	High Perf. Low Voltage Op Amp	8-MSOP	.75	.63	.50
TLV2362IDGKR	296-13995-2-ND	High Perf. Low Voltage Op Amp	8-MSOP	812.50/2,500		
TLV2362IDR	296-15029-1-ND	High Performance Low Volt. Op Amp	8-SOIC	.76	.57	.43
TLV2362IDR	296-15029-2-ND	High Performance Low Volt. Op Amp	8-SOIC	617.50/2,500		
TLV2362IP	296-10526-5-ND	Dual High Performance Op Amp	8-Dip	.76	.57	.43
TLV2362IPWR	296-10527-1-ND	Dual High Performance Op Amp	8-TSSOP	.76	.57	.43
TLV2362IPWR	296-10527-2-ND	Dual High Performance Op Amp	8-TSSOP	506.00/2,000		
TLV2370IDBVR	296-12617-1-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	SOT-23-6	1.23	1.03	.82
TLV2370IDBVR	296-12617-2-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	SOT-23-6	1599.00/3,000		
TLV2370IDR	296-12298-1-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	8-SOIC	1.23	1.03	.82
TLV2370IDR	296-12298-2-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	8-SOIC	1332.50/2,500		
TLV2370IP	296-12217-5-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	8-Dip	1.23	1.03	.82
TLV2371IDBVR	296-13057-1-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp	SOT-23-5	1.11	.93	.74
TLV2371IDBVR	296-13057-2-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp	SOT-23-5	1443.00/3,000		
TLV2371IDR	296-12299-1-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp	8-SOIC	1.11	.93	.74
TLV2371IDR	296-12299-2-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp	8-SOIC	1202.50/2,500		
TLV2371IP	296-12218-5-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp with Shutdown	8-Dip	1.11	.93	.74
TLV2371MDBVREP	296-21256-1-ND	550µA/Ch., 3MHz R/R, I/O Op Amp	SOT-23-5	2.48	1.98	1.54
TLV2371MDBVREP	296-21256-2-ND	550µA/Ch., 3MHz R/R, I/O Op Amp	SOT-23-5	4158.00/3,000		
TLV2371QDRQ1	296-18908-1-ND	550µA/Ch., 3MHz R/R I/O Op Amp	8-SOIC	1.38	1.15	.92
TLV2371QDRQ1	296-18908-2-ND	550µA/Ch., 3MHz R/R I/O Op Amp	8-SOIC	1495.00/2,500		
TLV2372IDR	296-10528-1-ND	Dual 3MHz R/R In/Out Op Amp	8-SOIC	1.25	1.00	.75
TLV2372IDR	296-10528-2-ND	Dual 3MHz R/R In/Out Op Amp	8-SOIC	1600.00/2,500		
TLV2372IP	296-12219-5-ND	Dual 3MHz R/R In/Out Op Amp	8-Dip	1.25	1.00	.75
TLV2372QDRG4Q1	296-22845-1-ND	Dual 3MHz R/R In/Out Op Amp ***NEW!***	8-SOIC	1.38	1.10	.83
TLV2372QDRG4Q1	296-22845-2-ND	Dual 3MHz R/R In/Out Op Amp ***NEW!***	8-SOIC	1760.00/2,500		
TLV2372QDRQ1	296-18909-1-ND	Dual 3MHz R/R In/Out Op Amp	8-SOIC	1.38	1.10	.83
TLV2372QDRQ1	296-18909-2-ND	Dual 3MHz R/R In/Out Op Amp	8-SOIC	1760.00/2,500		
TLV2373IDGSR	296-11624-1-ND	Dual 3MHz Rail-to-Rail, Op Amp with Shutdown	10-MSOP	1.38	1.10	.83
TLV2373IDGSR	296-11624-2-ND	Dual 3MHz Rail-to-Rail, Op Amp with Shutdown	10-MSOP	1760.00/2,500		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV2373IDR	296-10529-1-ND	Dual 3MHz Rail-to-Rail, I/O Op Amp with Shutdown	14-SOIC	1.38	1.10	.83
TLV2373IDR	296-10529-2-ND	Dual 3MHz Rail-to-Rail, I/O Op Amp with Shutdown	14-SOIC	1760.00/2,500		
TLV2373IN	296-12220-5-ND	Dual 3MHz Rail-to-Rail, I/O Op Amp with Shutdown	14-Dip	1.38	1.10	.83
TLV2374IDR	296-11967-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-SOIC	1.48	1.18	.89
TLV2374IDR	296-11967-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-SOIC	1887.50/2,500		
TLV2374IPWR	296-11968-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-TSSOP	1.48	1.18	.89
TLV2374IPWR	296-11968-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-TSSOP	1534.00/2,000		
TLV2374IN	296-12221-5-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-Dip	1.48	1.18	.89
TLV2374MDREP	296-19520-1-ND	Quad 3MHz R/R In/Out Op Amp	14-SOIC	3.74	2.99	2.33
TLV2374MDREP	296-19520-2-ND	Quad 3MHz R/R In/Out Op Amp	14-SOIC	5230.00/2,500		
TLV2375IDR	296-11969-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-SOIC	1.58	1.26	.95
TLV2375IDR	296-11969-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-SOIC	2015.00/2,500		
TLV2375IPWR	296-11970-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-TSSOP	1.58	1.26	.95
TLV2375IPWR	296-11970-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-TSSOP	1638.00/2,000		
TLV2375IN	296-12222-5-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-Dip	1.58	1.26	.95
TLV2381IDBVT	296-12223-1-ND	1-Channel, Rail-to-Rail, I/O Op Amp	SOT-23-5	1.55	1.24	.93
TLV2381IDBVT	296-12223-2-ND	1-Channel, Rail-to-Rail, I/O Op Amp	SOT-23-5	217.00/250		
TLV2381IDR	296-12224-1-ND	1-Channel, Rail-to-Rail, I/O Op Amp	8-SOIC	1.43	1.14	.86
TLV2381IDR	296-12224-2-ND	1-Channel, Rail-to-Rail, I/O Op Amp	8-SOIC	1825.00/2,500		
TLV2382IDR	296-12226-1-ND	2-Channel, Rail-to-Rail, I/O Op Amp	8-SOIC	1.90	1.52	1.14
TLV2382IDR	296-12226-2-ND	2-Channel, Rail-to-Rail, I/O Op Amp	8-SOIC	2432.50/2,500		
TLV2401CDR	296-10530-1-ND	Micropower Op Amp	8-SOIC	1.55	1.24	.93
TLV2401CDR	296-10530-2-ND	Micropower Op Amp	8-SOIC	1985.00/2,500		
TLV2401IDBVT	296-10531-1-ND	Micropower Op Amp	SOT-23-5	1.78	1.42	1.07
TLV2401IDBVT	296-10531-2-ND	Micropower Op Amp	SOT-23-5	248.50/250		
TLV2401IDR	296-10532-1-ND	Micropower Op Amp	8-SOIC	1.68	1.34	1.01
TLV2401IDR	296-10532-2-ND	Micropower Op Amp	8-SOIC	2145.00/2,500		
TLV2401IP	296-10533-5-ND	Micropower Op Amp	8-Dip	1.68	1.34	1.01
TLV2402CDR	296-10534-1-ND	Dual Micropower R/R Op Amp	8-SOIC	2.38	1.90	1.43
TLV2402CDR	296-10534-2-ND	Dual Micropower R/R Op Amp	8-SOIC	3040.00/2,500		
TLV2402IDGK	296-13799-5-ND	Dual Micropower R/R Op Amp	8-MSOP	2.25	1.80	1.40
TLV2402IDGKRG4	296-18604-1-ND	Dual Micropower R/R Op Amp	8-MSOP	2.25	1.80	1.40
TLV2402IDGKRG4	296-18604-2-ND	Dual Micropower R/R Op Amp	8-MSOP	3150.00/2,500		
TLV2402IDR	296-10535-1-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	2.25	1.80	1.40
TLV2402IDR	296-10535-2-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	3150.00/2,500		
TLV2402IP	296-10536-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-Dip	2.25	1.80	1.40
TLV2404AIN	296-13363-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-Dip	3.31	2.65	2.06
TLV2404CD	296-2427-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-SOIC	2.99	2.40	1.87
TLV2404IDR	296-10537-1-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-SOIC	3.22	2.58	2.01
TLV2404IDR	296-10537-2-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-SOIC	4505.00/2,500		
TLV2404IN	296-10538-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-Dip	3.22	2.58	2.01
TLV2404IPWR	296-10539-1-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-TSSOP	3.22	2.58	2.01
TLV2404IPWR	296-10539-2-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-TSSOP	3646.00/2,000		
TLV2422AID	296-10540-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2422CD	296-10541-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2422CPWR	296-10542-1-ND	Dual Micropower R/R Op Amp	8-TSSOP	1.68	1.34	1.01
TLV2422CPWR	296-10542-2-ND	Dual Micropower R/R Op Amp	8-TSSOP	1742.00/2,000		
TLV2422ID	296-10543-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.78	1.42	1.07
TLV2422QD	296-10544-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2432AID	296-10545-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2432AIPWR	296-10546-1-ND	Dual Micropower R/R Op Amp	8-TSSOP	1.90	1.52	1.14
TLV2432AIPWR	296-10546-2-ND	Dual Micropower R/R Op Amp	8-TSSOP	1976.00/2,000		
TLV2432AQD	296-10547-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	2.03	1.62	1.22
TLV2432CD	296-10548-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.30	1.04	.78
TLV2432ID	296-10549-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2432QD	296-10550-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2434AIDR	296-14409-1-ND	Quad R/R Micropower Op Amp	14-SOIC	2.36	1.89	1.47
TLV2434AIDR	296-14409-2-ND	Quad R/R Micropower Op Amp	14-SOIC	3307.50/2,500		
TLV2434AIPWR	296-10551-1-ND	Quad R/R Micropower Op Amp	14-TSSOP	2.36	1.89	1.47
TLV2434AIPWR	296-10551-2-ND	Quad R/R Micropower Op Amp	14-TSSOP	2678.00/2,000		
TLV2434CD	296-10552-5-ND	Quad R/R Micropower Op Amp	14-SOIC	2.38	1.90	1.43
TLV2434CPW	296-10553-5-ND	Quad R/R Micropower Op Amp	14-TSSOP	2.38	1.90	1.43
TLV2434IDR	296-10554-1-ND	Quad R/R Micropower Op Amp	14-SOIC	2.25	1.80	1.40
TLV2434IDR	296-10554-2-ND	Quad R/R Micropower Op Amp	14-SOIC	3150.00/2,500		
TLV2434IPWR	296-10555-1-ND	Quad R/R Micropower Op Amp	14-TSSOP	2.25	1.80	1.40
TLV2434IPWR	296-10555-2-ND	Quad R/R Micropower Op Amp	14-TSSOP	2550.00/2,000		
TLV2442AIDR	296-10556-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.78	1.42	1.07
TLV2442AIDR	296-10556-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2272.50/2,500		
TLV2442AQD	296-10557-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2442AQPW	296-10558-5-ND	Dual, Rail-to-Rail Op Amp	8-SOP	1.90	1.52	1.14
TLV2442CD	296-10559-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.30	1.04	.78
TLV2442ID	296-10560-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2442QD	296-10561-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2442QPW	296-10562-5-ND	Dual, Rail-to-Rail Op Amp	8-TSSOP	1.55	1.24	.93
TLV2444AIPWR	296-10563-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.25	1.80	1.40
TLV2444AIPWR	296-10563-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2550.00/2,000		
TLV2444CD	296-10564-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.25	1.80	1.35
TLV2444CPW	296-10565-5-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.25	1.80	1.35
TLV2444IDR	296-10566-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.38	1.90	1.43
TLV2444IDR	296-10566-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3040.00/2,500		
TLV2444IPWR	296-10567-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.38	1.90	1.43
TLV2444IPWR	296-10567-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2470.00/2,000		
TLV2450AID	296-10568-5-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2450AIDR	296-10568-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2450AIDR	296-10568-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	2145.00/2,500		
TLV2450AIP	296-10569-5-ND	Single, Rail-to-Rail Op Amp	8-Dip	1.68	1.34	1.01
TLV2450CD	296-1884-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2450CDBVR	296-10570-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	1.55	1.24	.93
TLV2450CDBVR	296-10570-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	2382.00/3,000		
TLV2450CP	296-1885-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.55	1.24	.93
TLV2450ID	296-1886-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2450IDBVR	296-10571-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	1.55	1.24	.93
TLV2450IDBVR	296-10571-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	2382.00/3,000		
TLV2450IP	296-1887-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.55	1.24	.93
TLV2451AID	296-10572-5-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2451AIDR	296-10572-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2451AIDR	296-10572-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1985.00/2,500		
TLV2451AIP	296-10573-5-ND	Single, Rail-to-Rail Op Amp	8-Dip	1.55	1.24	.93
TLV2451CD	296-1888-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2451CDR	296-1888-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2451CDR	296-1888-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1825.00/2,500		
TLV2451CDBVR	296-10574-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	1.43	1.14	.86
TLV2451CDBVR	296-10574-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	2190.00/3,000		
TLV2451CP	296-1889-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.43	1.14	.86
TLV2451ID	296-1890-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2451IDR	296-1890-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2451IDR	296-1890-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1825.00/2,500		
TLV2451IDBVR	296-10576-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	1.43	1.14	.86
TLV2451IDBVR	296-10576-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	2190.00/3,000		
TLV2451IP	296-1891-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.43	1.14	.86
TLV2452AIDR	296-10578-1-ND	Dual, Rail-to-Rail Op Amp	8-SOP	2.15	1.72	1.29
TLV2452AIDR	296-10578-2-ND	Dual, Rail-to-Rail Op Amp	8-SOP	2752.50/2,500		
TLV2452AIP	296-10579-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	2.15	1.72	1.29
TLV2452CD	296-2428-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2452CDR	296-2428-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2452CDR	296-2428-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2432.50/2,500		
TLV2452CDGKR	296-10580-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	1.90	1.52	1.14
TLV2452CDGKR	296-10580-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2432.50/2,500		
TLV2452IDGKR	296-10582-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2.03	1.62	1.22
TLV2452IDGKR	296-10582-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2592.50/2,500		
TLV2452IDR	296-10583-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.03	1.62	1.22
TLV2452IDR	296-10583-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2592.50/2,500		
TLV2452IP	296-10584-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	2.03	1.62	1.22
TLV2453AIDR	296-10585-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.38	1.90	1.43
TLV2453AIDR	296-10585-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	3040.00/2,500		
TLV2453AIN	296-10586-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.38	1.90	1.43
TLV2453CD	296-2429-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.15	1.72	1.29
TLV2453CDR	296-2429-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.15	1.72	1.29
TLV2453CDR	296-2429-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2752.50/2,500		
TLV2453CDGSR	296-10587-1-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2.15	1.72	1.29
TLV2453CDGSR	296-10587-2-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2752.50/2,500		
TLV2453IDGSR	296-10589-1-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2.25	1.80	1.35
TLV2453IDGSR	296-10589-2-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2880.00/2,500		
TLV2453IDR	296-10590-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.25	1.80	1.35
TLV2453IDR	296-10590-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2880.00/2,500		
TLV2453IN	296-10591-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.25	1.80	1.35
TLV2454AID	296-10592-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.45	1.97	1.53
TLV2454AIDR	296-10592-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.45	1.97	1.53
TLV2454AIDR	296-10592-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3432.50/2,500		
TLV2454AIN	296-10593-5-ND	Quad, Rail-to-Rail Op Amp	14-Dip	2.45	1.97	1.53
TLV2454AIPWR	296-10594-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.45	1.97	1.53
TLV2454AIPWR	296-10594-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2780.00/2,000		
TLV2454CD	296-2430-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.25	1.80	1.40
TLV2454CN	296-10595-5-ND	Quad, Rail-to-Rail Op Amp	14-Dip	2.25	1.80	1.40
TLV2454ID	296-10596-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.36	1.89	1.47
TLV2454IDR	296-10597-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.36	1.89	1.47
TLV2454IDR	296-10597-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3307.50/2,500		
TLV2454IN	296-10598-5-ND	Quad, Rail-to-Rail Op Amp	14-Dip	2.36	1.89	1.47
TLV2454IPWR	296-10599-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.36	1.89	1.47
TLV2454IPWR	296-10599-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2678.00/2,000		
TLV2455AID	296-10600-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.68	2.15	1.67
TLV2455AIDR	296-10600-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.68	2.15	1.67
TLV2455AIDR	296-10600-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3747.50/2,500		
TLV2455AIN	296-10601-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.68	2.15	1.67
TLV2455AIPWR	296-10602-1-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	2.68	2.15	1.67
TLV2455AIPWR	296-10602-2-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	3034.00/2,000		
TLV2455CD	296-2431-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.45	1.97	1.53
TLV2455CN	296-10603-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.45	1.97	1.53
TLV2455CPWR	296-10604-1-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	2.45	1.97	1.53
TLV2455CPWR	296-10604-2-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	2780.00/2,000		
TLV2455ID	296-10605-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.57	2.06	1.60
TLV2455IDR	296-10605-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.57	2.06	1.60
TLV2455IDR	296-10605-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3590.00/2,500		
TLV2455IN	296-10606-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.57	2.06	1.60
TLV2460AIDR	296-7477-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.68	1.34	1.01
TLV2460AIDR	296-7477-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	2145.00/2,500		
TLV2460AIP	296-7478-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.68	1.34	1.01
TLV2460CD	296-2432-5-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2460CDR	296-2432-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2460CDR	296-2432-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1985.00/2,500		
TLV2460CDBVR	296-7479-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	1.55	1.24	.93
TLV2460CDBVR	296-7479-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2382.00/3,000		
TLV2460CP	296-7480-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.55	1.24	.93
TLV2460IDBVR	296-7481-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	1.55	1.24	.93
TLV2460IDBVR	296-7481-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2382.00/3,000		
TLV2460IDR	296-7482-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2460IDR	296-7482-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1985.00/2,500		
TLV2460IP	296-7483-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.55	1.24	.93
TLV2461AIDR	296-7484-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2461AIDR	296-7484-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1985.00/2,500		
TLV2461AIP	296-7485-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.55	1.24	.93
TLV2461CDBVR	296-7487-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	1.43	1.14	.86
TLV2461CDBVR	296-7487-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	2190.00/3,000		
TLV2461CDBVT	296-2433-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	1.55	1.24	.93
TLV2461CDBVT	296-2433-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	217.00/250		
TLV2461CDR	296-7488-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.43	1.14	.86
TLV2461CDR	296-7488-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1825.00/2,500		
TLV2461CP	296-7489-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.43	1.14	.86
TLV2461IDBVR	296-7490-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	1.43	1.14	.86
TLV2461IDBVR	296-7490-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	2190.00/3,000		
TLV2461IDR	296-7491-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.43	1.14	.86
TLV2461IDR	296-7491-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1825.00/2,500		
TLV2461IP	296-7492-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.43	1.14	.86
TLV2462AIDR	296-7557-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.15	1.72	1.29

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV2462AIDR	296-7557-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2752.50/2,500		
TLV2462AIP	296-7558-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-Dip	2.15	1.72	1.29
TLV2462AMDREP	296-21864-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	5.15	4.13	3.21
TLV2462AMDREP	296-21864-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	7212.50/2,500		
TLV2462AQD	296-12066-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.25	1.80	1.35
TLV2462AQDREP	296-22427-1-ND	Dual LP R/R I/O Op Amp ***NEW!***	8-SOIC	2.75	2.20	1.71
TLV2462AQDREP	296-22427-2-ND	Dual LP R/R I/O Op Amp ***NEW!***	8-SOIC	3842.50/2,500		
TLV2462AQDRQ1	296-17738-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.38	1.90	1.43
TLV2462AQDRQ1	296-17738-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	3040.00/2,500		
TLV2462AQPWR	296-12067-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-TSSOP	2.25	1.80	1.35
TLV2462AQPWR	296-12067-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-TSSOP	2394.00/2,000		
TLV2462CD	296-2434-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	1.90	1.52	1.14
TLV2462CDR	296-2434-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	1.90	1.52	1.14
TLV2462CDR	296-2434-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2432.50/2,500		
TLV2462CP	296-1892-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-Dip	1.90	1.52	1.14
TLV2462ID	296-7562-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.03	1.62	1.22
TLV2462IDR	296-7562-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.03	1.62	1.22
TLV2462IDR	296-7562-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2592.50/2,500		
TLV2462IDGKR	296-7561-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-MSOP	2.03	1.62	1.22
TLV2462IDGKR	296-7561-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-MSOP	2592.50/2,500		
TLV2462IP	296-1893-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-Dip	2.03	1.62	1.22
TLV2462QD	296-12068-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.15	1.72	1.29
TLV2463AIDR	296-7563-1-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.38	1.90	1.43
TLV2463AIDR	296-7563-2-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	3040.00/2,500		
TLV2463AIN	296-7564-5-ND	Dual LP R/R I/O Op Amp with SD	14-Dip	2.38	1.90	1.43
TLV2463AQD	296-12069-5-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.38	1.90	1.43
TLV2463AQDREP	296-22428-1-ND	Dual LP R/R I/O Op Amp w/SD ***NEW!***	14-SOIC	3.06	2.45	1.91
TLV2463AQDREP	296-22428-2-ND	Dual LP R/R I/O Op Amp w/SD ***NEW!***	14-SOIC	4285.00/2,500		
TLV2463AQPWR	296-12070-1-ND	Dual LP R/R I/O Op Amp with SD	14-TSSOP	2.38	1.90	1.43
TLV2463AQPWR	296-12070-2-ND	Dual LP R/R I/O Op Amp with SD	14-TSSOP	2470.00/2,000		
TLV2463CD	296-2435-5-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.15	1.72	1.29
TLV2463CDR	296-2435-1-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.15	1.72	1.29
TLV2463CDR	296-2435-2-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2752.50/2,500		
TLV2463CDGS	296-7565-5-ND	Dual LP R/R I/O Op Amp with SD	10-MSOP	2.15	1.72	1.29
TLV2463CN	296-7567-5-ND	Dual LP R/R I/O Op Amp with SD	14-Dip	2.15	1.72	1.29
TLV2463ID	296-1894-5-ND	Dual LP Rail-to-Rail Op Amp	14-SOIC	2.25	1.80	1.35
TLV2463IDGSR	296-7568-1-ND	Dual LP R/R I/O Op Amp with SD	10-MSOP	2.25	1.80	1.35
TLV2463IDGSR	296-7568-2-ND	Dual LP R/R I/O Op Amp with SD	10-MSOP	2880.00/2,500		
TLV2463IN	296-1895-5-ND	Dual LP R/R Op Amp	14-Dip	2.25	1.80	1.35
TLV2463QD	296-12071-5-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.38	1.90	1.43
TLV2463QPWR	296-12072-1-ND	Dual LP R/R I/O Op Amp with SD	14-TSSOP	2.38	1.90	1.43
TLV2463QPWR	296-12072-2-ND	Dual LP R/R I/O Op Amp with SD	14-TSSOP	2470.00/2,000		
TLV2464AIDR	296-14410-1-ND	Quad LP R/R I/O Op Amp	14-SOIC	2.45	1.97	1.53
TLV2464AIDR	296-14410-2-ND	Quad LP R/R I/O Op Amp	14-SOIC	3432.50/2,500		
TLV2464AIPW	296-14050-5-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2.45	1.97	1.53
TLV2464AMDREP	296-19521-1-ND	Quad LP R/R I/O Op Amp	14-SOIC	5.86	4.69	3.96
TLV2464AMDREP	296-19521-2-ND	Quad LP R/R I/O Op Amp	14-SOIC	9082.50/2,500		
TLV2464AMPWREP	296-19522-1-ND	Quad LP R/R I/O Op Amp	14-TSSOP	5.86	4.69	3.96
TLV2464AMPWREP	296-19522-2-ND	Quad LP R/R I/O Op Amp	14-TSSOP	7326.00/2,000		
TLV2464AQPWRQ1	296-18910-1-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2.68	2.15	1.67
TLV2464AQPWRQ1	296-18910-2-ND	Quad LP R/R I/O Op Amp	14-TSSOP	3034.00/2,000		
TLV2464CD	296-2436-5-ND	Quad LP R/R I/O Op Amp	14-SOIC	2.25	1.80	1.40
TLV2464CDR	296-2436-1-ND	Quad LP R/R I/O Op Amp	14-SOIC	2.25	1.80	1.40
TLV2464CDR	296-2436-2-ND	Quad LP R/R I/O Op Amp	14-SOIC	3150.00/2,500		
TLV2464CN	296-7570-5-ND	Quad LP R/R I/O Op Amp	14-Dip	2.25	1.80	1.40
TLV2464CPWR	296-7571-1-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2.25	1.80	1.40
TLV2464CPWR	296-7571-2-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2550.00/2,000		
TLV2464ID	296-10608-5-ND	Quad LP R/R Op Amp	14-SOIC	2.36	1.89	1.47
TLV2464IDR	296-10608-1-ND	Quad LP R/R Op Amp	14-SOIC	2.36	1.89	1.47
TLV2464IDR	296-10608-2-ND	Quad LP R/R I/O Op Amp	14-SOIC	3307.50/2,500		
TLV2464IN	296-7573-5-ND	Quad LP R/R I/O Op Amp	14-Dip	2.36	1.89	1.47
TLV2464IPWR	296-7575-1-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2.36	1.89	1.47
TLV2464IPWR	296-7575-2-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2678.00/2,000		
TLV2465CD	296-2437-5-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	2.45	1.97	1.53
TLV2465CDR	296-2437-1-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	2.45	1.97	1.53
TLV2465CDR	296-2437-2-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	3432.50/2,500		
TLV2465CN	296-7577-5-ND	Quad LP R/R I/O Op Amp with SD	16-Dip	2.45	1.97	1.53
TLV2465CPWR	296-7578-1-ND	Quad LP R/R I/O Op Amp with SD	16-TSSOP	2.45	1.97	1.53
TLV2465CPWR	296-7578-2-ND	Quad LP R/R I/O Op Amp with SD	16-TSSOP	2780.00/2,000		
TLV2465ID	296-10609-5-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	2.57	2.06	1.60
TLV2465ID	296-10609-1-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	2.57	2.06	1.60
TLV2465IDR	296-10609-2-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	3590.00/2,500		
TLV2465IN	296-7580-5-ND	Quad LP R/R I/O Op Amp with SD	16-Dip	2.57	2.06	1.60
TLV2465IPWR	296-7581-1-ND	Quad LP R/R I/O Op Amp with SD	16-TSSOP	2.57	2.06	1.60
TLV2465IPWR	296-7581-2-ND	Quad LP R/R I/O Op Amp with SD	16-TSSOP	2908.00/2,000		
TLV2470AIDR	296-7493-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.68	1.34	1.01
TLV2470AIDR	296-7493-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	2145.00/2,500		
TLV2470AIP	296-7494-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.68	1.34	1.01
TLV2470CD	296-2438-5-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2470CDR	296-2438-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2470CDR	296-2438-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1985.00/2,500		
TLV2470CDBVR	296-7495-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	1.55	1.24	.93
TLV2470CDBVR	296-7495-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2382.00/3,000		
TLV2470CP	296-7496-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.55	1.24	.93
TLV2470IDBVR	296-7497-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	1.55	1.24	.93
TLV2470IDBVR	296-7497-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2382.00/3,000		
TLV2470IDR	296-7498-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2470IDR	296-7498-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1985.00/2,500		
TLV2470IP	296-7499-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.55	1.24	.93
TLV2471AIDR	296-7500-1-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1.55	1.24	.93
TLV2471AIDR	296-7500-2-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1985.00/2,500		
TLV2471AIP	296-7501-5-ND	LP Rail-to-Rail I/O Op Amp	8-Dip	1.55	1.24	.93
TLV2471CD	296-2439-5-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1.43	1.14	.86
TLV2471CDR	296-2439-1-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1.43	1.14	.86
TLV2471CDR	296-2439-2-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1825.00/2,500		
TLV2471CDBVR	296-7502-1-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	1.43	1.14	.86
TLV2471CDBVR	296-7502-2-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	2190.00/3,000		
TLV2471CP	296-7503-5-ND	LP Rail-to-Rail I/O Op Amp	8-Dip	1.43	1.14	.86
TLV2471IDBVR	296-7504-1-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	1.43	1.14	.86
TLV2471IDBVR	296-7504-2-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	2190.00/3,000		
TLV2471IDR	296-7505-1-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1.43	1.14	.86
TLV2471IDR	296-7505-2-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1825.00/2,500		
TLV2471IP	296-7506-5-ND	LP Rail-to-Rail I/O Op Amp	8-Dip	1.43	1.14	.86
TLV2471QDBVRQ1	296-19366-1-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	1.55	1.24	.93
TLV2471QDBVRQ1	296-19366-2-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	2382.00/3,000		

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV2472AID	296-10610-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.15	1.72	1.29
TLV2472AIDR	296-10610-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.15	1.72	1.29
TLV2472AIDR	296-10610-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2752.50/2,500		
TLV2472AIP	296-10611-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	2.15	1.72	1.29
TLV2472AQDRG4Q1	296-22846-1-ND	Dual Rail-to-Rail I/O Op Amp ***NEW!***	8-SOIC	2.25	1.80	1.35
TLV2472AQDRG4Q1	296-22846-2-ND	Dual Rail-to-Rail I/O Op Amp ***NEW!***	8-SOIC	2880.00/2,500		
TLV2472CDGNR	296-10612-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	1.90	1.52	1.14
TLV2472CDGNR	296-10612-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2432.50/2,500		
TLV2472CD	296-2440-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2472CDR	296-2440-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2472CDR	296-2440-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2432.50/2,500		
TLV2472IDGNR	296-10615-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2.03	1.62	1.22
TLV2472IDGNR	296-10615-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2592.50/2,500		
TLV2472ID	296-10614-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.03	1.62	1.22
TLV2472IDR	296-10616-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.03	1.62	1.22
TLV2472IDR	296-10616-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2592.50/2,500		
TLV2472IP	296-10617-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	2.03	1.62	1.22
TLV2473AID	296-10618-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.38	1.90	1.43
TLV2473AIDR	296-10618-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.38	1.90	1.43
TLV2473AIDR	296-10618-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	3040.00/2,500		
TLV2473AIN	296-10619-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.38	1.90	1.43
TLV2473CDGQR	296-10620-1-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2.15	1.72	1.29
TLV2473CDGQR	296-10620-2-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2752.50/2,500		
TLV2473CD	296-2441-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.15	1.72	1.29
TLV2473CDR	296-2441-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.15	1.72	1.29
TLV2473CDR	296-2441-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2752.50/2,500		
TLV2473ID	296-10622-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.25	1.80	1.35
TLV2473IDGQR	296-10623-1-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2.25	1.80	1.35
TLV2473IDGQR	296-10623-2-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2880.00/2,500		
TLV2473IN	296-10625-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.25	1.80	1.35
TLV2474AIDR	296-10626-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	2.45	1.97	1.53
TLV2474AIDR	296-10626-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3432.50/2,500		
TLV2474AIN	296-10627-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-Dip	2.45	1.97	1.53
TLV2474AIPWPR	296-10628-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2.57	2.06	1.60
TLV2474AIPWPR	296-10628-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2908.00/2,000		
TLV2474AIPWR	296-13364-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	2.45	1.97	1.53
TLV2474AIPWR	296-13364-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	2780.00/2,000		
TLV2474APWPRQ1	296-18276-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	2.57	2.06	1.60
TLV2474APWPRQ1	296-18276-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	2908.00/2,000		
TLV2474CD	296-2442-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	2.25	1.80	1.40
TLV2474CDR	296-2442-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	2.25	1.80	1.40
TLV2474CDR	296-2442-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3150.00/2,500		
TLV2474CN	296-10630-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-Dip	2.25	1.80	1.40
TLV2474CPWPR	296-10631-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2.36	1.89	1.47
TLV2474CPWPR	296-10631-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2678.00/2,000		
TLV2474IDR	296-10632-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	2.36	1.89	1.47
TLV2474IDR	296-10632-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3307.50/2,500		
TLV2474IN	296-10633-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-Dip	2.36	1.89	1.47
TLV2474IPWPR	296-12009-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2.45	1.97	1.53
TLV2474IPWPR	296-12009-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2780.00/2,000		
TLV2475AIDR	296-10634-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.68	2.15	1.67
TLV2475AIDR	296-10634-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3747.50/2,500		
TLV2475AIN	296-10635-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.68	2.15	1.67
TLV2475AIPWPR	296-10636-1-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2.79	2.24	1.74
TLV2475AIPWPR	296-10636-2-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	3162.00/2,000		
TLV2475CD	296-2443-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.45	1.97	1.53
TLV2475CDR	296-2443-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.45	1.97	1.53
TLV2475CDR	296-2443-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3432.50/2,500		
TLV2475CN	296-10638-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.45	1.97	1.53
TLV2475CPWPR	296-10639-1-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2.57	2.06	1.60
TLV2475CPWPR	296-10639-2-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2908.00/2,000		
TLV2475IDR	296-10640-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.57	2.06	1.60
TLV2475IDR	296-10640-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3590.00/2,500		
TLV2475IN	296-10641-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.57	2.06	1.60
TLV2475IPWPR	296-10642-1-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2.68	2.15	1.67
TLV2475IPWPR	296-10642-2-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	3034.00/2,000		
TLV2620IDBVT	296-15332-5-ND	Single Supply Op Amp	SOT-23-6	1.55	1.24	.93
TLV2620IDR	296-11662-1-ND	Single Supply Op Amp	8-SOIC	1.43	1.14	.86
TLV2620IDR	296-11662-2-ND	Single Supply Op Amp	8-SOIC	1825.00/2,500		
TLV2621IDBVT	296-15333-1-ND	Single Supply Op Amp	SOT-23-5	1.14	.95	.76
TLV2621IDBVT	296-15333-2-ND	Single Supply Op Amp	SOT-23-5	142.50/250		
TLV2621IDR	296-11667-1-ND	Single Supply Op Amp	8-SOIC	1.05	.88	.70
TLV2621IDR	296-11667-2-ND	Single Supply Op Amp	8-SOIC	1137.50/2,500		
TLV2622IDGKR	296-10647-1-ND	Dual, Rail-to-Rail, HS Op Amp	8-MSOP	1.68	1.34	1.01
TLV2622IDGKR	296-10647-2-ND	Dual, Rail-to-Rail, HS Op Amp	8-MSOP	2145.00/2,500		
TLV2622IDR	296-10648-1-ND	Dual, Rail-to-Rail, HS Op Amp	8-SOIC	1.68	1.34	1.01
TLV2622IDR	296-10648-2-ND	Dual, Rail-to-Rail, HS Op Amp	8-SOIC	2145.00/2,500		
TLV2623IDGSR	296-10649-1-ND	Dual, Rail-to-Rail, LP Op Amp	10-MSOP	1.90	1.52	1.14
TLV2623IDGSR	296-10649-2-ND	Dual, Rail-to-Rail, LP Op Amp	10-MSOP	2432.50/2,500		
TLV2623IDR	296-10650-1-ND	Dual, Rail-to-Rail, LP Op Amp	14-SOIC	1.90	1.52	1.14
TLV2623IDR	296-10650-2-ND	Dual, Rail-to-Rail, LP Op Amp	14-SOIC	2432.50/2,500		

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV2624IDR	296-11665-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.38	1.90	1.43
TLV2624IDR	296-11665-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3040.00/2,500		
TLV2624IPWR	296-11655-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.38	1.90	1.43
TLV2624IPWR	296-11655-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2470.00/2,000		
TLV2625IDR	296-11695-1-ND	Low Voltage Quad Op Amp	16-SOIC	2.36	1.89	1.47
TLV2625IDR	296-11695-2-ND	Low Voltage Quad Op Amp	16-SOIC	3307.50/2,500		
TLV2625IPWR	296-11669-1-ND	Low Voltage Quad Op Amp	16-TSSOP	2.36	1.89	1.47
TLV2625IPWR	296-11669-2-ND	Low Voltage Quad Op Amp	16-TSSOP	2678.00/2,000		
TLV2630IDBVR	296-11971-1-ND	9MHz R/R Output Op Amp with SD	SOT-23-6	1.78	1.42	1.07
TLV2630IDBVR	296-11971-2-ND	9MHz R/R Output Op Amp with SD	SOT-23-6	2727.00/3,000		
TLV2631IDBVR	296-11973-1-ND	9MHz Rail-to-Rail Output Op Amp	SOT-23-5	1.20	1.00	.80
TLV2631IDBVR	296-11973-2-ND	9MHz Rail-to-Rail Output Op Amp	SOT-23-5	1560.00/3,000		
TLV2632IDGKR	296-13368-1-ND	Dual, Low Power, Wide Bandwidth, Single Supply R/R Op Amp	8-MSOP	2.25	1.80	1.35
TLV2632IDGKR	296-13368-2-ND	Dual, Low Power, Wide Bandwidth, Single Supply R/R Op Amp	8-MSOP	2880.00/2,500		
TLV2632IDR	296-11975-1-ND	Dual, Low Power, Wide Bandwidth, Single Supply R/R Op Amp	8-SOIC	2.25	1.80	1.35
TLV2632IDR	296-11975-2-ND	Dual, Low Power, Wide Bandwidth, Single Supply R/R Op Amp	8-SOIC	2880.00/2,500		
TLV2633IDGSR	296-13369-1-ND	Dual, LP, Wide Bandwidth, Single Supply R/R Op Amp w/Shutdown	10-MSOP	2.25	1.80	1.40
TLV2633IDGSR	296-13369-2-ND	Dual, LP, Wide Bandwidth, Single Supply R/R Op Amp w/Shutdown	10-MSOP	3150.00/2,500		
TLV2634IPWR	296-11978-1-ND	Quad 9MHz R/R Output Op Amp	14-TSSOP	2.79	2.24	1.74
TLV2634IPWR	296-11978-2-ND	Quad 9MHz R/R Output Op Amp	14-TSSOP	3162.00/2,000		
TLV2711CDBVR	296-10651-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.11	.93	.74
TLV2711CDBVR	296-10651-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1443.00/3,000		
TLV2711IDBVR	296-10652-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.17	.98	.78
TLV2711IDBVR	296-10652-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1521.00/3,000		
TLV2721CDBVR	296-10653-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.11	.93	.74
TLV2721CDBVR	296-10653-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1443.00/3,000		
TLV2721IDBVR	296-10654-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.17	.98	.78
TLV2721IDBVR	296-10654-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1521.00/3,000		
TLV2731CDBVR	296-10656-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.11	.93	.74
TLV2731CDBVR	296-10656-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1443.00/3,000		
TLV2731IDBVR	296-10657-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.17	.98	.78
TLV2731IDBVR	296-10657-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1521.00/3,000		
TLV2760ID	296-10658-5-ND	Micropower Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2760IDBVT	296-10659-1-ND	Micropower Rail-to-Rail Op Amp	SOT-23-6	1.78	1.42	1.07
TLV2760IDBVT	296-10659-2-ND	Micropower Rail-to-Rail Op Amp	SOT-23-6	248.50/250		
TLV2760IP	296-10660-5-ND	Micropower Rail-to-Rail Op Amp	8-Dip	1.68	1.34	1.01
TLV2761ID	296-10661-5-ND	Micropower Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2761IDBVT	296-10662-1-ND	Micropower Rail-to-Rail Op Amp	SOT-23-5	1.68	1.34	1.01
TLV2761IDBVT	296-10662-2-ND	Micropower Rail-to-Rail Op Amp	SOT-23-5	234.50/250		
TLV2761IP	296-10663-5-ND	Low Power, Single R/R Op Amp	8-Dip	1.55	1.24	.93
TLV2762IDGKR	296-10664-1-ND	HS, Dual Rail-to-Rail Op Amp	8-TSSOP	2.15	1.72	1.29
TLV2762IDGKR	296-10664-2-ND	HS, Dual Rail-to-Rail Op Amp	8-TSSOP	2752.50/2,500		
TLV2762IDR	296-10665-1-ND	Low Power, Dual Rail-to-Rail Op Amp	8-SOIC	2.15	1.72	1.29
TLV2762IDR	296-10665-2-ND	Low Power, Dual Rail-to-Rail Op Amp	8-SOIC	2752.50/2,500		
TLV2763CD	296-10666-5-ND	Low Power, Dual R/R Op Amp	14-SOIC	2.25	1.80	1.35
TLV2763CDR	296-10666-1-ND	Low Power, Dual R/R Op Amp	14-SOIC	2.25	1.80	1.35
TLV2763CDR	296-10666-2-ND	Low Power, Dual R/R Op Amp	14-SOIC	2880.00/2,500		
TLV2763IDGSR	296-10667-1-ND	Low Power, Dual R/R Op Amp	10-TSSOP	2.38	1.90	1.43
TLV2763IDGSR	296-10667-2-ND	Low Power, Dual R/R Op Amp	10-TSSOP	3040.00/2,500		
TLV2763IDR	296-10668-1-ND	Low Power, Dual R/R Op Amp	14-SOIC	2.38	1.90	1.43
TLV2763IDR	296-10668-2-ND	Low Power, Dual R/R Op Amp	14-SOIC	3040.00/2,500		
TLV2763IN	296-10669-5-ND	Low Power, Dual Rail-to-Rail Op Amp	14-Dip	2.38	1.90	1.43
TLV2764IDR	296-10670-1-ND	Micropower Single R/R Op Amp	14-SOIC	2.45	1.97	1.53
TLV2764IDR	296-10670-2-ND	Micropower Single R/R Op Amp	14-SOIC	3432.50/2,500		
TLV2764IN	296-14051-5-ND	1.8V Micropower R/R Input/Output Op Amp with Shutdown	14-Dip	2.45	1.97	1.53
TLV2764IPWR	296-10671-1-ND	Micropower Single R/R Op Amp	14-TSSOP	2.45	1.97	1.53
TLV2764IPWR	296-10671-2-ND	Micropower Single R/R Op Amp	14-TSSOP	2780.00/2,000		
TLV2765IDR	296-10672-1-ND	Micropower Single R/R Op Amp	16-SOIC	2.68	2.15	1.67
TLV2765IDR	296-10672-2-ND	Micropower Single R/R Op Amp	16-SOIC	3747.50/2,500		
TLV2765IPWR	296-10673-1-ND	Micropower Single R/R Op Amp	16-TSSOP	2.68	2.15	1.67
TLV2765IPWR	296-10673-2-ND	Micropower Single R/R Op Amp	16-TSSOP	3034.00/2,000		
TLV2770AIP	296-7583-5-ND	Single 2.7V R/R Op Amp w/Shutdown	8-Dip	1.90	1.52	1.14
TLV2770CD	296-1896-5-ND	Single 2.7V R/R Op Amp w/Shutdown	8-SOIC	1.68	1.34	1.01
TLV2770CDR	296-1896-1-ND	Single 2.7V R/R Op Amp w/Shutdown	8-SOIC	1.68	1.34	1.01
TLV2770CDR	296-1896-2-ND	Single 2.7V R/R Op Amp w/Shutdown	8-SOIC	2145.00/2,500		
TLV2770CDGKR	296-7584-1-ND	Single 2.7V R/R Op Amp with SD	8-MSOP	1.68	1.34	1.01
TLV2770CDGKR	296-7584-2-ND	Single 2.7V R/R Op Amp with SD	8-MSOP	2145.00/2,500		
TLV2770CP	296-1897-5-ND	Rail-to-Rail Op Amp	8-Dip	1.68	1.34	1.01
TLV2770ID	296-1898-5-ND	Single 2.7V R/R I/O Op Amp with SD	8-SOIC	1.78	1.42	1.07
TLV2770IDR	296-1898-1-ND	Single 2.7V R/R I/O Op Amp with SD	8-SOIC	1.78	1.42	1.07
TLV2770IDR	296-1898-2-ND	Single 2.7V R/R I/O Op Amp with SD	8-SOIC	2272.50/2,500		
TLV2770IDGKR	296-7585-1-ND	Single 2.7V R/R Op Amp with SD	8-MSOP	1.78	1.42	1.07
TLV2770IDGKR	296-7585-2-ND	Single 2.7V R/R Op Amp with SD	8-MSOP	2272.50/2,500		
TLV2770IP	296-1899-5-ND	Rail-to-Rail Op Amp	8-Dip	1.78	1.42	1.07
TLV2771AIDR	296-7586-1-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2771AIDR	296-7586-2-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	2145.00/2,500		
TLV2771CD	296-1900-5-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2771CDR	296-1900-1-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2771CDR	296-1900-2-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	1985.00/2,500		
TLV2771CDBVR	296-1346-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.55	1.24	.93
TLV2771CDBVR	296-1346-2-ND	Rail-to-Rail Op Amp	SOT-23-5	2382.00/3,000		
TLV2771IDBVR	296-1347-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.68	1.34	1.01
TLV2771IDBVR	296-1347-2-ND	Rail-to-Rail Op Amp	SOT-23-5	2574.00/3,000		
TLV2771ID	296-10674-5-ND	HS, Single Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2771IDR	296-10674-1-ND	HS, Single Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2771IDR	296-10674-2-ND	HS, Single Rail-to-Rail Op Amp	8-SOIC	2145.00/2,500		
TLV2772AIDR	296-7587-1-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.35	1.88	1.41
TLV2772AIDR	296-7587-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	3007.50/2,500		
TLV2772AIP	296-7588-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-Dip	2.35	1.88	1.41
TLV2772AMD	296-7589-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.57	2.06	1.60
TLV2772AMDREP	296-19523-1-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	5.04	4.04	3.41
TLV2772AMDREP	296-19523-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	7812.50/2,500		
TLV2772AQD	296-10675-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.25	1.80	1.40
TLV2772AQPW	296-10676-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-TSSOP	2.25	1.80	1.40
TLV2772CD	296-10677-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.15	1.72	1.29
TLV2772CDR	296-10677-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2752.50/2,500		
TLV2772CDGK	296-7591-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-MSOP	2.15	1.72	1.29
TLV2772CP	296-7592-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-Dip	2.15	1.72	1.29
TLV2772ID	296-1902-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.25	1.80	1.35
TLV2772IDR	296-1902-1-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.25	1.80	1.35
TLV2772IDR	296-1902-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2880.00/2,500		
TLV2772IDGKR	296-7593-1-ND	Dual 2.7V Rail-to-Rail Op Amp	8-MSOP	2.25	1.80	1.35
TLV2772IDGKR	296-7593-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-MSOP	2880.00/2,500		
TLV2772IP	296-1903-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-Dip	2.25	1.80	1.35
TLV2772MD	296-7594-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.45	1.97	1.53
TLV2772QD	296-10678-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.35	1.88	1.41
TLV2772QPW	296-10679-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-TSSOP	2.35	1.88	1.41
TLV2773AIN	296-7596-5-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-Dip	2.36	1.89	1.47
TLV2773CD	296-2444-5-ND	Dual Rail-to-Rail Op Amp	14-SOIC	2.35	1.88	1.41
TLV2773CDR	296-2444-1-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOIC	2.35	1.88	1.41
TLV2773CDR	296-2444-2-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOIC	3007.50/2,500		
TLV2773CDGS	296-7597-5-ND	Dual 2.7V R/R Op Amp w/Shutdown	10-MSOP	2.35	1.88	1.41
TLV2773IDGSR	296-7599-1-ND	Dual 2.7V R/R Op Amp w/Shutdown	10-MSOP	2.25	1.80	1.40
TLV2773IDGSR	296-7599-2-ND	Dual 2.7V R/R Op Amp w/Shutdown	10-MSOP	3150.00/2,500		
TLV2773IDR	296-7600-1-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOIC	2.25	1.80	1.40
TLV2773IDR	296-7600-2-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOIC	3150.00/2,500		
TLV2773IN	296-7601-5-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-Dip	2.25	1.80	1.40
TLV2774AIDR	296-7602-1-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	2.79	2.24	1.74
TLV2774AIDR	296-7602-2-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	3905.00/2,500		
TLV2774AIN	296-7603-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-Dip	2.79	2.24	1.74
TLV2774CD	296-1904-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	2.57	2.06	1.60
TLV2774CDR	296-1904-1-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	2.57	2.06	1.60
TLV2774CDR	296-1904-2-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	3590.00/2,500		
TLV2774CN	296-1905-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-Dip	2.57	2.06	1.60
TLV2774CPWR	296-7604-1-ND	Quad 2.7V Rail-to-Rail Op Amp	14-TSSOP	2.57	2.06	1.60
TLV2774CPWR	296-7604-2-ND	Quad 2.7V Rail-to-Rail Op Amp	14-TSSOP	2908.00/2,000		
TLV2774ID	296-1906-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	2.68	2.15	1.67
TLV2774IN	296-1907-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-Dip	2.68	2.15	1.67
TLV2775AIDR	296-7605-1-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-SOIC	3.11	2.49	1.94
TLV2775AIDR	296-7605-2-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-SOIC	4347.50/2,500		
TLV2775AIN	296-7606-5-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-Dip	3.11	2.49	1.94
TLV2775AIPW	296-10680-5-ND	Quad 2.7V R/R Op Amp w/SD	16-TSSOP	3.11	2.49	1.94
TLV2775CD	296-1908-5-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-SOIC	2.79	2.24	1.74
TLV2775CN	296-1909-5-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-Dip	2.79	2.24	1.74
TLV2775ID	296-1910-5-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-SOIC	2.99	2.40	1.87
TLV2775IDR	296-10681-1-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-SOIC	2.99	2.40	1.87
TLV2775IDR	296-10681-2-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-SOIC	4190.00/2,500		
TLV2775IN	296-7607-5-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-Dip	2.99	2.40	1.87
TLV2780IDBVR	296-7608-1-ND	8MHz, 1.8V R/R Op Amp w/SD	SOT-23-6	1.78	1.42	1.07
TLV2780IDBVR	296-7608-2-ND	8MHz, 1.8V R/R Op Amp w/SD	SOT-23-6	2727.00/3,000		
TLV2780IDR	296-7609-1-ND	8MHz, 1.8V R/R I/O Op Amp w/SD	8-SOIC	1.78	1.42	1.07
TLV2780IDR	296-7609-2-ND	8MHz, 1.8V R/R I/O Op Amp w/SD	8-SOIC	2272.50/2,500		
TLV2781IDBVR	296-7610-1-ND	8MHz, 1.8V R/R I/O Op Amp	SOT-23-5	1.55	1.24	.93
TLV2781IDBVR	296-7610-2-ND	8MHz, 1.8V R/R I/O Op Amp	SOT-23-5	2382.00/3,000		
TLV2781IDR	296-7611-1-ND	8MHz, 1.8V R/R I/O Op Amp	8-SOIC	1.55	1.24	.93
TLV2781IDR	296-7611-2-ND	8MHz, 1.8V R/R I/O Op Amp	8-SOIC	1985.00/2,500		
TLV2782AID	296-7612-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2.38	1.90	1.43
TLV2782CD	296-2445-5-ND	Low Voltage, Dual, R/R Op Amp	8-SOIC	2.15	1.72	1.29
TLV2782CDR	296-2445-1-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2.15	1.72	1.29
TLV2782CDR	296-2445-2-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2752.50/2,500		
TLV2782CDGKR	296-7613-1-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2.15	1.72	1.29
TLV2782CDGKR	296-7613-2-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2752.50/2,500		
TLV2782ID	296-11652-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2.25	1.80	1.35
TLV2782IDGKR	296-7615-1-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2.25	1.80	1.35
TLV2782IDGKR	296-7615-2-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2880.00/2,500		
TLV2782IP	296-7616-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-Dip	2.25	1.80	1.35
TLV2783AID	296-13372-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.36	1.89	1.47
TLV2783CD	296-10684-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.38	1.90	1.43
TLV2783CDR	296-10684-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.38	1.90	1.43
TLV2783CDR	296-10684-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	3040.00/2,500		
TLV2783CDGSR	296-10683-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	10-MSOP	2.38	1.90	1.43
TLV2783CDGSR	296-10683-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	10-MSOP	3040.00/2,500		
TLV2783ID	296-2446-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.25	1.80	1.40
TLV2783IDGSR	296-10685-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	10-MSOP	2.25	1.80	1.40
TLV2783IDGSR	296-10685-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	10-MSOP	3150.00/2,500		
TLV2783IN	296-10686-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-Dip	2.25	1.80	1.40
TLV2784AID	296-10687-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.79	2.24	1.74
TLV2784CPWR	296-13373-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-TSSOP	2.57	2.06	1.60
TLV2784CPWR	296-13373-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-TSSOP	2908.00/2,000		
TLV2784IDR	296-10688-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.68	2.15	1.67
TLV2784IDR	296-10688-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	3747.50/2,500		
TLV2784IPW	296-10689-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-TSSOP	2.68	2.15	1.67
TLV2785AID	296-10690-5-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-SOIC	2.99	2.40	1.87
TLV2785CPWR	296-10691-1-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-TSSOP	2.79	2.24	1.74
TLV2785CPWR	296-10691-2-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-TSSOP	3162.00/2,000		
TLV2785IDR	296-10692-1-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-SOIC	2.88	2.31	1.80
TLV2785IDR	296-10692-2-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-SOIC	4032.50/2,500		
TLV3404IDR	296-10710-1-ND	LP, Quad Rail-to-Rail Op Amp	14-SOIC	2.59	2.07	1.61

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV3404IDR	296-10710-2-ND	LP, Quad Rail-to-Rail Op Amp	14-SOIC	3622.50/2,500		
TLV3404IPWR	296-10711-1-ND	LP, Quad Rail-to-Rail Op Amp	14-TSSOP	2.59	2.07	1.61
TLV3404IPWR	296-10711-2-ND	LP, Quad Rail-to-Rail Op Amp	14-TSSOP	2932.00/2,000		
TLV3491AID	296-14052-5-ND	Single Nanopower Push-Pull Output Comparator	8-SOIC	1.11	.93	.74
TLV3491AIDBVT	296-14053-1-ND	Single Nanopower Push-Pull Output Comparator	SOT-23-5	1.23	1.03	.82
TLV3491AIDBVT	296-14053-2-ND	Single Nanopower Push-Pull Output Comparator	SOT-23-5	153.75/250		
TLV3492AID	296-14054-5-ND	Dual Nanopower Push-Pull Output Comparator	8-SOIC	1.55	1.24	.93
TLV3492AIDCNT	296-14055-1-ND	Dual Nanopower Push-Pull Output Comparator	SOT-23-8	1.68	1.34	1.01
TLV3492AIDCNT	296-14055-2-ND	Dual Nanopower Push-Pull Output Comparator	SOT-23-8	234.50/250		
TLV3494AID	296-14056-5-ND	Quad Nanopower Push-Pull Output Comparator	14-SOIC	2.10	1.68	1.26
TLV3494AIPWT	296-14057-1-ND	Quad Nanopower Push-Pull Output Comparator	14-TSSOP	2.30	1.84	1.38
TLV3494AIPWT	296-14057-2-ND	Quad Nanopower Push-Pull Output Comparator	14-TSSOP	322.00/250		
TLV4110ID	296-10712-5-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp with Shutdown	8-SOIC	1.90	1.52	1.14
TLV4110IDGNR	296-10713-1-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp with Shutdown	8-MSOP	1.90	1.52	1.14
TLV4110IDGNR	296-10713-2-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp with Shutdown	8-MSOP	2432.50/2,500		
TLV4110IDR	296-12301-1-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp with Shutdown	8-SOIC	1.90	1.52	1.14
TLV4110IDR	296-12301-2-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp with Shutdown	8-SOIC	2432.50/2,500		
TLV4110IP	296-15719-5-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp with Shutdown	8-Dip	1.90	1.52	1.14
TLV4111IDGNR	296-10714-1-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp	8-MSOP	1.78	1.42	1.07
TLV4111IDGNR	296-10714-2-ND	High Out/Low VoltageSingle Rail-to-Rail Op Amp	8-MSOP	2272.50/2,500		
TLV4111IDR	296-10715-1-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp	8-SOIC	1.78	1.42	1.07
TLV4111IDR	296-10715-2-ND	High Out/Low Voltage Single Rail-to-Rail Op Amp	8-SOIC	2272.50/2,500		
TLV4112CD	296-2447-5-ND	Dual High-Drive Op Amp	8-SOIC	2.15	1.72	1.29
TLV4112CP	296-10716-5-ND	High-Out-Drive Dual R/R Op Amp	8-Dip	2.15	1.72	1.29
TLV4112ID	296-10717-5-ND	High-Out-Drive Dual R/R Op Amp	8-SOIC	2.25	1.80	1.35
TLV4112IDGNR	296-10718-1-ND	High-Out-Drive Dual R/R Op Amp	8-MSOP	2.25	1.80	1.35
TLV4112IDGNR	296-10718-2-ND	High-Out-Drive Dual R/R Op Amp	8-MSOP	2880.00/2,500		
TLV4112IP	296-10719-5-ND	High-Out-Drive Dual R/R Op Amp	8-Dip	2.25	1.80	1.35
TLV4113ID	296-10720-5-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	14-SOIC	2.38	1.90	1.43
TLV4113IDGQR	296-10721-1-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	10-HTSSOP	2.38	1.90	1.43
TLV4113IDGQR	296-10721-2-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	10-HTSSOP	3040.00/2,500		
TLV4113IN	296-15720-5-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	14-Dip	2.38	1.90	1.43
TLV4113MDGQREP	296-22431-1-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown ***NEW!***	10-MSOP	5.10	4.08	3.45
TLV4113MDGQREP	296-22431-2-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown ***NEW!***	10-MSOP	7905.00/2,500		
TLV4120IDGNR	296-10722-1-ND	High-Out-Drive Single Rail-to-Rail Op Amp with Shutdown	8-MSOP	2.79	2.24	1.74
TLV4120IDGNR	296-10722-2-ND	High-Out-Drive Single Rail-to-Rail Op Amp with Shutdown	8-MSOP	3905.00/2,500		
TPA005D12DCA	296-2448-5-ND	2W Stereo Power Amp	48-TSSOP	9.60	7.68	6.48
TPA005D14DCA	296-2449-5-ND	2W Stereo Power Amp, Upgrade for TPA005D04DCA	48-TSSOP	8.91	8.03	7.12
TPA032D01DCA	296-2461-5-ND	10W Monaural Power Amp	48-HTSSOP	10.50	9.45	8.38
TPA032D02DCA	296-2462-5-ND	10W Class-D Stereo Audio Power Amp	48-TSSOP	12.08	10.88	9.65
TPA032D02DCAR	296-2462-1-ND	10W Class-D Stereo Audio Power Amp	48-TSSOP	12.08	10.88	9.65
TPA032D02DCAR	296-2462-2-ND	10W Class-D Stereo Audio Power Amp	48-TSSOP	17908.00/2,000		
TPA032D03DCA	296-2463-5-ND	10W Monaural Power Amp	48-HTSSOP	11.50	10.35	9.18
TPA032D04DCA	296-2464-5-ND	10W Stereo Power Amplifier	48-HTSSOP	12.66	11.40	10.11
TPA102DGN	296-1941-5-ND	150mW Stereo Audio Power Amp	8-MSOP	1.38	1.15	.92
TPA102DGNR	296-1941-1-ND	150mW Stereo Audio Power Amp	8-MSOP	1.38	1.15	.92
TPA102DGNR	296-1941-2-ND	150mW Stereo Audio Power Amp	8-MSOP	1495.00/2,500		
TPA112D	296-2465-5-ND	150mW Stereo Audio Power Amp	8-SOIC	.99	.83	.66
TPA112DR	296-2465-1-ND	150mW Stereo Audio Power Amp	8-SOIC	.99	.83	.66
TPA112DR	296-2465-2-ND	150mW Stereo Audio Power Amp	8-SOIC	1072.50/2,500		
TPA112DGN	296-1942-5-ND	150mW Stereo Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA112DGNR	296-1942-1-ND	150mW Stereo Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA112DGNR	296-1942-2-ND	150mW Stereo Audio Power Amp	8-MSOP	1397.50/2,500		
TPA122D	296-2466-5-ND	150mW Stereo Audio Power Amp	8-SOIC	1.08	.90	.72
TPA122DR	296-2466-1-ND	150mW Stereo Audio Power Amp	8-SOIC	1.08	.90	.72
TPA122DR	296-2466-2-ND	150mW Stereo Audio Power Amp	8-SOIC	1170.00/2,500		
TPA122DGN	296-1943-5-ND	150mW Stereo Audio Power Amp	8-MSOP	1.38	1.15	.92
TPA122DGNR	296-1943-1-ND	150mW Stereo Audio Power Amp	8-MSOP	1.38	1.15	.92
TPA122DGNR	296-1943-2-ND	150mW Stereo Audio Power Amp	8-MSOP	1495.00/2,500		
TPA122MSOPEVM	296-10824-ND	Evaluation Module for TPA122	—	50.00	—	—
TPA152D	296-1944-5-ND	75mW Single-Ended Audio Power Amp	8-SOIC	1.30	1.04	.78
TPA152DR	296-1944-1-ND	75mW Single-Ended Audio Power Amp	8-SOIC	1.30	1.04	.78
TPA152DR	296-1944-2-ND	75mW Single-Ended Audio Power Amp	8-SOIC	1665.00/2,500		
TPA152EVM	296-10827-ND	Evaluation Module for TPA152	—	50.00	—	—
TPA301D	296-1945-5-ND	0.35W Mono Audio Power Amp	8-SOIC	.87	.73	.58
TPA301DR	296-1945-1-ND	0.35W Mono Audio Power Amp	8-SOIC	.87	.73	.58
TPA301DR	296-1945-2-ND	0.35W Mono Audio Power Amp	8-SOIC	942.50/2,500		
TPA301DGN	296-1946-5-ND	0.35W Mono Audio Power Amp	8-MSOP	1.14	.95	.76
TPA301EVM	296-10834-ND	Evaluation Module for TPA301	—	50.00	—	—
TPA302D	296-7011-5-ND	0.3W Stereo Audio Power Amp	8-SOIC	2.25	1.80	1.40
TPA311D	296-1947-5-ND	0.35W Mono Audio Power Amp	8-SOIC	.87	.73	.58

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPA311DR	296-1947-1-ND	0.35W Mono Audio Power Amp	8-SOIC	.87	.73	.58
TPA311DR	296-1947-2-ND	0.35W Mono Audio Power Amp	8-SOIC	942.50/2,500		
TPA311DGN	296-1948-5-ND	0.35W Mono Audio Power Amp	8-MSOP	1.14	.95	.76
TPA311EVM	296-10836-ND	Evaluation Module for TPA311	—	50.00	—	—
TPA321D	296-7012-5-ND	350mW Low Volt. Audio Power Amp with Differential Inputs	8-SOIC	.87	.73	.58
TPA321DGN	296-12563-5-ND	350mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1.14	.95	.76
TPA321EVM	296-12306-ND	Evaluation Module for TPA321	—	50.00	—	—
TPA701D	296-1949-5-ND	700mW Low Volt. Audio Power Amp	8-SOIC	.99	.83	.66
TPA701DR	296-1949-1-ND	700mW Low Volt. Audio Power Amp	8-SOIC	.99	.83	.66
TPA701DR	296-1949-2-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1072.50/2,500		
TPA701DGN	296-7022-5-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA701DGNR	296-7022-1-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA701DGNR	296-7022-2-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1397.50/2,500		
TPA711D	296-1950-5-ND	700mW Low Volt. Audio Power Amp	8-SOIC	.99	.83	.66
TPA711DR	296-1950-1-ND	700mW Low Volt. Audio Power Amp	8-SOIC	.99	.83	.66
TPA711DR	296-1950-2-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1072.50/2,500		
TPA711DGNR	296-7023-1-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA711DGNR	296-7023-2-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1397.50/2,500		
TPA711MSOPEVM	296-10851-ND	Eval. Module for TPA711MSOP	—	50.00	—	—
TPA721D	296-1951-5-ND	700mW Low Volt. Audio Power Amp	8-SOIC	.99	.83	.66
TPA721DR	296-1951-1-ND	700mW Low Volt. Audio Power Amp	8-SOIC	.99	.83	.66
TPA721DR	296-1951-2-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1072.50/2,500		
TPA721DGNR	296-7024-1-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA721DGNR	296-7024-2-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1397.50/2,500		
TPA721MSOPEVM	296-10852-ND	Eval. Module for TPA721MSOP	—	50.00	—	—
TPA731D	296-7025-5-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-SOIC	.99	.83	.66
TPA731DGNR	296-7026-1-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1.29	1.08	.86
TPA731DGNR	296-7026-2-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1397.50/2,500		
TPA731EVM	296-10853-ND	Evaluation Module for TPA731	—	50.00	—	—
TPA741D	296-7027-5-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-SOIC	.99	.83	.66
TPA741DGNR	296-7028-1-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1.29	1.08	.86
TPA741DGNR	296-7028-2-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1397.50/2,500		
TPA741EVM	296-10854-ND	Evaluation Module for TPA741	—	50.00	—	—
TPA751D	296-10855-5-ND	Low Voltage Audio Power Amp	8-SOIC	.99	.83	.66
TPA751DGNR	296-10856-1-ND	Low Voltage Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA751DGNR	296-10856-2-ND	Low Voltage Audio Power Amp	8-MSOP	1397.50/2,500		
TPA751EVM	296-13570-ND	Evaluation Module for TPA751	—	50.00	—	—
TPA751GQSR	296-12691-1-ND	700mW Low Volt. Audio Power Amp	24-BGA	1.30	1.04	.78
TPA751GQSR	296-12691-2-ND	700mW Low Volt. Audio Power Amp	24-BGA	1665.00/2,500		
TPA0102EVM	296-10797-ND	Evaluation Module for TPA0102	—	50.00	—	—
TPA0102PWP	296-1938-5-ND	1.5W Stereo Audio Power Amp	24-HTSSOP	2.35	1.88	1.41
TPA0102PWPR	296-1938-1-ND	1.5W Stereo Audio Power Amp	24-HTSSOP	2.35	1.88	1.41
TPA0102PWPR	296-1938-2-ND	1.5W Stereo Audio Power Amp	24-HTSSOP	2444.00/2,000		
TPA0103EVM	296-10798-ND	Evaluation Module for TPA0103	—	50.00	—	—
TPA0103PWP	296-1939-5-ND	1.75W 3-Channel Stereo Audio Power Amp	24-HTSSOP	2.48	1.98	1.49
TPA0103PWPR	296-1939-1-ND	1.75W 3-Channel Stereo Audio Power Amp	24-HTSSOP	2.48	1.98	1.49
TPA0103PWPR	296-1939-2-ND	1.75W 3-Channel Stereo Audio Power Amp	24-HTSSOP	2574.00/2,000		
TPA0112EVM	296-10799-ND	Evaluation Module for TPA0112	—	50.00	—	—
TPA0112PWP	296-2450-5-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2.48	1.98	1.54
TPA0112PWPR	296-2450-1-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2.48	1.98	1.54
TPA0112PWPR	296-2450-2-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2806.00/2,000		
TPA0122EVM	296-10800-ND	Evaluation Module for TPA0122	—	50.00	—	—
TPA0122PWP	296-2451-5-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2.48	1.98	1.54
TPA0122PWPR	296-2451-1-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2.48	1.98	1.54
TPA0122PWPR	296-2451-2-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2806.00/2,000		
TPA0132EVM	296-10801-ND	Evaluation Module for TPA0132	—	50.00	—	—
TPA0132PWP	296-2452-5-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3.42	2.74	2.13
TPA0132PWPR	296-2452-1-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3.42	2.74	2.13
TPA0132PWPR	296-2452-2-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3876.00/2,000		
TPA0142EVM	296-10802-ND	Evaluation Module for TPA0142	—	50.00	—	—
TPA0142PWP	296-2453-5-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3.42	2.74	2.13
TPA0142PWPR	296-2453-1-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3.42	2.74	2.13
TPA0142PWPR	296-2453-2-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3876.00/2,000		
TPA0152EVM	296-10803-ND	Evaluation Module for TPA0152	—	50.00	—	—
TPA0152PWP	296-2454-5-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4.05	3.24	2.52
TPA0152PWPR	296-2454-1-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4.05	3.24	2.52
TPA0152PWPR	296-2454-2-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4590.00/2,000		
TPA0162EVM	296-10804-ND	Evaluation Module for TPA0162	—	50.00	—	—
TPA0162PWP	296-2455-5-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4.05	3.24	2.52
TPA0162PWPR	296-2455-1-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4.05	3.24	2.52
TPA0162PWPR	296-2455-2-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4590.00/2,000		
TPA0172EVM	296-10805-ND	Evaluation Module for TPA0172	—	50.00	—	—
TPA0172PWP	296-7000-5-ND	2W Stereo Audio Power Amp	24-HTSSOP	5.51	4.41	3.43
TPA0202PWP	296-1940-5-ND	2W Stereo Audio Power Amp	24-HTSSOP	3.22	2.58	2.01

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPA0202PWPR	296-1940-1-ND	2W Stereo Audio Power Amp	24-HTSSOP	3.22	2.58	2.01
TPA0202PWPR	296-1940-2-ND	2W Stereo Audio Power Amp	24-HTSSOP	3646.00/2,000		
TPA0211DGN	296-2456-5-ND	2W Mono Audio Power Amp	8-TSSOP	1.75	1.40	1.05
TPA0211DGNR	296-2456-1-ND	2W Mono Audio Power Amp	8-MSOP	1.75	1.40	1.05
TPA0211DGNR	296-2456-2-ND	2W Mono Audio Power Amp	8-MSOP	2240.00/2,500		
TPA0211EVM	296-10807-ND	Evaluation Module for TPA0211	—	50.00	—	—
TPA0212EVM	296-10808-ND	Evaluation Module for TPA0212	—	50.00	—	—
TPA0212PWP	296-2457-5-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2.48	1.98	1.54
TPA0212PWPR	296-2457-1-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2.48	1.98	1.54
TPA0212PWPR	296-2457-2-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2806.00/2,000		
TPA0213DGQR	296-7001-1-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	2.45	1.97	1.53
TPA0213DGQR	296-7001-2-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	3432.50/2,500		
TPA0213EVM	296-10809-ND	Evaluation Module for TPA0213	—	50.00	—	—
TPA0222EVM	296-10810-ND	Evaluation Module for TPA0222	—	50.00	—	—
TPA0222PWP	296-2458-5-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2.48	1.98	1.54
TPA0222PWPR	296-2458-1-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2.48	1.98	1.54
TPA0222PWPR	296-2458-2-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2806.00/2,000		
TPA0223DGQR	296-7002-1-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	2.45	1.97	1.53
TPA0223DGQR	296-7002-2-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	3432.50/2,500		
TPA0223EVM	296-10811-ND	Evaluation Module for TPA0223	—	50.00	—	—
TPA0232EVM	296-10812-ND	Evaluation Module for TPA0232	—	50.00	—	—
TPA0232PWP	296-2459-5-ND	2W Stereo Power Amplifier	24-HTSSOP	3.94	3.15	2.45
TPA0233DGQR	296-7003-1-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	2.59	2.07	1.61
TPA0233DGQR	296-7003-2-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	3622.50/2,500		
TPA0233EVM	296-10813-ND	Evaluation Module for TPA0233	—	50.00	—	—
TPA0242EVM	296-10814-ND	Evaluation Module for TPA0242	—	50.00	—	—
TPA0242PWP	296-2460-5-ND	2W Stereo Power Amplifier	24-HTSSOP	3.60	2.88	2.24
TPA0243DGQR	296-7004-1-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	2.59	2.07	1.61
TPA0243DGQR	296-7004-2-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	3622.50/2,500		
TPA0243EVM	296-10815-ND	Evaluation Module for TPA0243	—	50.00	—	—
TPA0252EVM	296-13567-ND	Evaluation Module for TPA0252	—	50.00	—	—
TPA0252PWP	296-7005-5-ND	2W Stereo Audio Power Amp with Digital Volume Control/Memory	24-HTSSOP	4.05	3.24	2.52
TPA0253DGQR	296-7006-1-ND	1W Mono Audio Power Amp with Headphone Drive	10-MSOP	1.50	1.20	.90
TPA0253DGQR	296-7006-2-ND	1W Mono Audio Power Amp with Headphone Drive	10-MSOP	1920.00/2,500		
TPA0253EVM	296-10816-ND	Evaluation Module for TPA0253	—	50.00	—	—
TPA0312PWP	296-10817-5-ND	2W Stereo Power Amplifier	24-HTSSOP	2.48	1.98	1.54
TPA1517DWP	296-7007-5-ND	6W Stereo Audio Power Amp	20-HSOP	1.78	1.42	1.07
TPA1517DWPEVM	296-10825-ND	Evaluation Module for TPA1517	—	50.00	—	—
TPA1517DWPR	296-7007-1-ND	6W Stereo Audio Power Amp	20-HSOP	1.78	1.42	1.07
TPA1517DWPR	296-7007-2-ND	6W Stereo Audio Power Amp	20-HSOP	1846.00/2,000		
TPA1517NE	296-7008-5-ND	6W Stereo Audio Power Amp	20-Dip	1.78	1.42	1.07
TPA1517NEEVM	296-10826-ND	Evaluation Module for TPA1517NE	—	50.00	—	—
TPA2000D1GQCR	296-15638-1-ND	2W Class-D Filterless Mono Audio Power Amp	48-BGA	2.59	2.07	1.61
TPA2000D1GQCR	296-15638-2-ND	2W Class-D Filterless Mono Audio Power Amp	48-BGA	3622.50/2,500		
TPA2000D1PW	296-7009-5-ND	2W Class-D Filterless Mono Audio Power Amp	16-TSSOP	2.36	1.89	1.47
TPA2000D1TPWRQ1	296-18920-1-ND	2W Class-D Filterless Mono Audio Power Amp	16-TSSOP	3.26	2.61	2.03
TPA2000D1TPWRQ1	296-18920-2-ND	2W Class-D Filterless Mono Audio Power Amp	16-TSSOP	3698.00/2,000		
TPA2000D1EVM	296-10828-ND	Evaluation Module for TPA2000D1	—	50.00	—	—
TPA2000D2EVM	296-10829-ND	Evaluation Module for TPA2000D2	—	50.00	—	—
TPA2000D2PWP	296-2467-5-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	3.26	2.61	2.03
TPA2000D2PWPR	296-2467-1-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	3.26	2.61	2.03
TPA2000D2PWPR	296-2467-2-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	3698.00/2,000		
TPA2000D2PWR	296-13382-1-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	3.26	2.61	2.03
TPA2000D2PWR	296-13382-2-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	3698.00/2,000		
TPA2000D4DAP	296-10830-5-ND	2W Class-D Filterless Audio Power Amp	32-HTSSOP	3.71	2.97	2.31
TPA2000D4EVM	296-10831-ND	Evaluation Module for TPA2000D4	—	50.00	—	—
TPA2001D1EVM	296-10832-ND	Evaluation Module for TPA2001D1	—	50.00	—	—
TPA2001D1PW	296-7010-5-ND	1W Class-D Filterless Mono Audio Power Amp	16-TSSOP	1.88	1.50	1.13
TPA2001D2EVM	296-10833-ND	Evaluation Module for TPA2001D2	—	50.00	—	—
TPA2001D2PWP	296-2468-5-ND	1W Class-D Stereo Audio Power Amp	24-HTSSOP	2.70	2.16	1.68
TPA2001D2PWPR	296-2468-1-ND	1W Class-D Stereo Audio Power Amp	24-HTSSOP	2.70	2.16	1.68
TPA2001D2PWPR	296-2468-2-ND	1W Class-D Stereo Audio Power Amp	24-HTSSOP	3060.00/2,000		
TPA2005D1DGN	296-17691-5-ND	1.1W Class-D Audio Power Amp	8-MSOP	1.41	1.18	.94
TPA2005D1DRBR	296-15131-1-ND	1.1W Class-D Audio Power Amp	8-SON	1.41	1.18	.94
TPA2005D1DRBR	296-15131-2-ND	1.1W Class-D Audio Power Amp	8-SON	1833.00/3,000		
TPA2005D1EVM	296-20582-ND	Evaluation Module for TPA2005D1	—	50.00	—	—
TPA2005D1GQYR	296-15073-1-ND	1.1W Mono Filter Free Class-D Audio Power Amp	15-VFBGA	1.41	1.18	.94
TPA2005D1GQYR	296-15073-2-ND	1.1W Mono Filter Free Class-D Audio Power Amp	15-VFBGA	1527.50/2,500		
TPA2005D1ZQYR	296-18921-1-ND	1.4W Mono Filter Free Class-D Audio Power Amp	15-BGA	1.41	1.18	.94
TPA2005D1ZQYR	296-18921-2-ND	1.4W Mono Filter Free Class-D Audio Power Amp	15-BGA	1527.50/2,500		
TPA2006D1DRBR	296-20783-1-ND	1.45W Mono Filter Free Class-D Audio Power Amp	8-QFN	1.41	1.18	.94
TPA2006D1DRBR	296-20783-2-ND	1.45W Mono Filter Free Class-D Audio Power Amp	8-QFN	1833.00/3,000		
TPA2008D2EVM	296-18922-ND	Evaluation Module for TPA2008D2	—	50.00	—	—
TPA2008D2PWP	296-15339-5-ND	3W Filter Free Class-D Audio Power Amp with DC Volume Control	24-HTSSOP	3.85	3.08	2.40
TPA2008D2PWPR	296-17158-1-ND	3W Filter Free Class-D Audio Power Amp with DC Volume Control	24-TSSOP	3.85	3.08	2.40
TPA2008D2PWPR	296-17158-2-ND	3W Filter Free Class-D Audio Power Amp with DC Volume Control	24-TSSOP	4360.00/2,000		
TPA2010D1EVM	296-18923-ND	Evaluation Module for TPA2010D1	—	50.00	—	—
TPA2010D1YZFR	296-16648-1-ND	2.5W Audio Power Amp	9-WCSP	.99	.83	.66
TPA2010D1YZFR	296-16648-2-ND	2.5W Audio Power Amp	9-WCSP	1287.00/3,000		
TPA2010D1YZFT	296-16659-1-ND	2.5W Audio Power Amp	9-WCSP	1.20	1.00	.80
TPA2010D1YZFT	296-16659-2-ND	2.5W Audio Power Amp	9-WCSP	150.00/250		
TPA2012D2EVM	296-21137-ND	Evaluation Module for TPA2012D2	—	50.00	—	—
TPA2012D2RTJR	296-17692-1-ND	2.1W Stereo Filter Free Class-D Audio Power Amp	20-QFN	2.25	1.80	1.35
TPA2012D2RTJR	296-17692-2-ND	2.1W Stereo Filter Free Class-D Audio Power Amp	20-QFN	3456.00/3,000		
TPA2012D2YZHR	296-18665-1-ND	2.1W Stereo Filter Free Class-D Audio Power Amp	16-DSBGA	2.25	1.80	1.40
TPA2012D2YZHR	296-18665-2-ND	2.1W Stereo Filter Free Class-D Audio Power Amp	16-DSBGA	3780.00/3,000		
TPA2013D1RGPR	296-22849-1-ND	2.7W Constant Output Power Class-D Audio Amp ***NEW!***	20-QFN	3.26	2.61	2.03
TPA2013D1RGPR	296-22849-2-ND	2.7W Constant Output Power Class-D Audio Amp ***NEW!***	20-QFN	5481.00/3,000		
TPA2013D1YZHR	296-22582-1-ND	2.7W Constant Output Power Class-D Audio Amp ***NEW!***	16-DSBGA	3.49	2.79	2.17
TPA2013D1YZHR	296-22582-2-ND	2.7W Constant Output Power Class-D Audio Amp ***NEW!***	16-DSBGA	5859.00/3,000		
TPA2032D1YZFR	296-20659-1-ND	2.75W Fixed Gain Mono Audio Power Amp	9-WCSP	1.50	1.20	.90
TPA2032D1YZFR	296-20659-2-ND	2.75W Fixed Gain Mono Audio Power Amp	9-WCSP	2304.00/3,000		
TPA2033D1YZFR	296-20660-1-ND	2.75W Fixed Gain Mono Audio Power Amp	9-WCSP	1.50	1.20	.90
TPA2033D1YZFR	296-20660-2-ND	2.75W Fixed Gain Mono Audio Power Amp	9-WCSP	2304.00/3,000		
TPA2034D1YZFR	296-20661-1-ND	2.75W Fixed Gain Mono Audio Power Amp	9-WCSP	1.50	1.20	.90
TPA2034D1YZFR	296-20661-2-ND	2.75W Fixed Gain Mono Audio Power Amp	9-WCSP	2304.00/3,000		
TPA3001D1PWPR	296-14200-1-ND	20W Mono Class-D Audio Amp	24-TSSOP	5.00	4.00	3.38
TPA3001D1PWPR	296-14200-2-ND	20W Mono Class-D Audio Amp	24-TSSOP	6250.00/2,000		
TPA3002D2EVM	296-20583-ND	Evaluation Module for TPA3002D2	—	50.00	—	—
TPA3002D2PHPR	296-14201-1-ND	9W Class-D Audio Amp with DC Volume Control	48-HTQFP	6.60	5.28	4.46
TPA3002D2PHPR	296-14201-2-ND	9W Class-D Audio Amp with DC Volume Control	48-HTQFP	4125.00/1,000		
TPA3003D2EVM	296-20584-ND	Evaluation Module for TPA3003D2	—	50.00	—	—
TPA3003D2PFB	296-15037-ND	3W Class-D Audio Amp with DC Volume Control	48-TQFP	6.00	4.80	4.05
TPA3004D2EVM	296-20585-ND	Evaluation Module for TPA3004D2	—	50.00	—	—
TPA3004D2PHPR	296-15038-1-ND	12W Class-D Audio Amp with DC Volume Control	48-HTQFP	6.50	5.20	4.39
TPA3004D2PHPR	296-15038-2-ND	12W Class-D Audio Amp with DC Volume Control	48-HTQFP	4063.00/1,000		
TPA3005D2EVM	296-18924-ND	Evaluation Module for TPA3005D2	—	50.00	—	—
TPA3005D2PHPR	296-17058-1-ND	6W Class-D Stereo Audio Power Amp	48-HTQFP	11.80	8.85	6.64
TPA3005D2PHPR	296-17058-2-ND	6W Class-D Stereo Audio Power Amp	48-HTQFP	3688.00/1,000		
TPA3007D1EVM	296-18925-ND	Evaluation Module for TPA3007D1	—	50.00	—	—
TPA3007D1PW	296-15792-5-ND	6.5W Audio Power Amp	24-TSSOP	4.39	3.51	2.73
TPA3008D2EVM	296-18926-ND	Evaluation Module for TPA3008D2	—	50.00	—	—
TPA3008D2PHP	296-17210-ND	10W Stereo Class-D Audio Power Amp	48-HTQFP	6.20	4.96	4.19
TPA3100D2EVM	296-21138-ND	Evaluation Module for TPA3100D2	—	152.00	—	—
TPA3100D2PHPR	296-19603-1-ND	20W Stereo Class-D Audio Power Amp	48-HTQFP	7.00	5.60	4.73
TPA3100D2PHPR	296-19603-2-ND	20W Stereo Class-D Audio Power Amp	48-HTQFP	4375.00/1,000		
TPA3100D2RGZR	296-19423-1-ND	20W Stereo Class-D Audio Power Amp	48-QFN	7.00	5.60	4.73
TPA3100D2RGZR	296-19423-2-ND	20W Stereo Class-D Audio Power Amp	48-QFN	10850.00/2,500		
TPA3101D2EVM	296-21139-ND	Evaluation Module for TPA3101D2	—	152.00	—	—
TPA3101D2PHP	296-19554-1-ND	10W Stereo Class-D Audio Power Amp	48-HTQFP	6.20	4.96	4.19
TPA3101D2PHP	296-19554-2-ND	10W Stereo Class-D Audio Power Amp	48-HTQFP	1007.50/250		
TPA3101D2RGZR	296-19424-1-ND	10W Stereo Class-D Audio Power Amp	48-QFN	6.20	4.96	4.19
TPA3101D2RGZR	296-19424-2-ND	10W Stereo Class-D Audio Power Amp	48-QFN	9610.00/2,500		
TPA3106D1VFPR	296-22976-1-ND	40W Mono Class-D Audio Power Amp ***NEW!***	32-HLQFP	7.10	5.68	4.80
TPA3106D1VFPR	296-22976-2-ND	40W Mono Class-D Audio Power Amp ***NEW!***	32-HLQFP	4438.00/1,000		
TPA3107D2PAPR	296-21343-1-ND	15W Stereo Class-D Audio Power Amp	64-HTQFP	6.70	5.36	4.53
TPA3107D2PAPR	296-21343-2-ND	15W Stereo Class-D Audio Power Amp	64-HTQFP	4188.00/1,000		

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPA3120D2PWP	296-21673-5-ND	25W Stereo Class-D Audio Power Amp	24-TSSOP	6.40	5.12	4.32
TPA3123D2PWPR	296-22008-1-ND	25W Stereo Class-D Audio Power Amp ***NEW!***	24-HTSSOP	6.40	5.12	4.32
TPA3123D2PWPR	296-22008-2-ND	25W Stereo Class-D Audio Power Amp ***NEW!***	24-HTSSOP	7600.00/2,000		
TPA3200D1DCP	296-18302-5-ND	20W Mono Digital Input Audio Amp	44-HTSSOP	5.90	4.72	3.99
TPA3200D1EVM	296-21140-ND	Evaluation Module for TPA3200D1	—	50.00	—	—
TPA4411EVM	296-17385-ND	Evaluation Module for TPA4411	—	50.00	—	—
TPA4411MRTJT	296-18278-1-ND	80mW Capless Stereo Headphone Driver	20-QFN	1.78	1.42	1.07
TPA4411MRTJT	296-18278-2-ND	80mW Capless Stereo Headphone Driver	20-QFN	248.50/250		
TPA4411RTJT	296-17312-1-ND	80mW Capless Stereo Headphone Driver	20-TQFN	2.00	1.60	1.20
TPA4411RTJT	296-17312-2-ND	80mW Capless Stereo Headphone Driver	20-TQFN	280.00/250		
TPA4411YZHR	296-18666-1-ND	80mW Capless Stereo Headphone Driver	16-DSBGA	1.78	1.42	1.07
TPA4411YZHR	296-18666-2-ND	80mW Capless Stereo Headphone Driver	16-DSBGA	2727.00/3,000		
TPA4860D	296-7013-5-ND	1W Mono Audio Power Amp	16-SOIC	1.25	1.00	.75
TPA4861D	296-7014-5-ND	1W Mono Audio Power Amp	8-SOIC	1.25	1.00	.75
TPA4861DR	296-7014-1-ND	1W Mono Audio Power Amp	8-SOIC	1.25	1.00	.75
TPA4861DR	296-7014-2-ND	1W Mono Audio Power Amp	8-SOIC	1600.00/2,500		
TPA4860EVM	296-10838-ND	Evaluation Module for TPA4860	—	50.00	—	—
TPA5050RSAR	296-19884-1-ND	Stereo Digital Audio Lip-Sync Delay	16-QFN	6.40	5.12	4.32
TPA5050RSAR	296-19884-2-ND	Stereo Digital Audio Lip-Sync Delay	16-QFN	11904.00/3,000		
TPA5051RSAR	296-20711-1-ND	4-Ch. Digital Audio Lip-Sync Delay	16-QFN	6.40	5.12	4.32
TPA5051RSAR	296-20711-2-ND	4-Ch. Digital Audio Lip-Sync Delay	16-QFN	11904.00/3,000		
TPA5052RSAR	296-20712-1-ND	Stereo Digital Audio Lip-Sync Delay	16-QFN	5.90	4.72	3.99
TPA5052RSAR	296-20712-2-ND	Stereo Digital Audio Lip-Sync Delay	16-QFN	10974.00/3,000		
TPA6010A4EVM	296-10840-ND	Evaluation Module for TPA6010A4	—	50.00	—	—
TPA6010A4PWPR	296-7015-1-ND	2W Stereo Audio Power Amp w/Bass Boost/DC Volume Control	28-HTSSOP	5.06	4.05	3.15
TPA6010A4PWPR	296-7015-2-ND	2W Stereo Audio Power Amp w/Bass Boost/DC Volume Control	28-HTSSOP	5738.00/2,000		
TPA6011A4EVM	296-13568-ND	Evaluation Module for TPA6011A4	—	50.00	—	—
TPA6011A4PWP	296-16919-5-ND	2W Stereo Audio Power Amp	24-TSSOP	2.57	2.06	1.60
TPA6011A4PWPR	296-12678-1-ND	2W Stereo Audio Power Amp	24-HTSSOP	2.57	2.06	1.60
TPA6011A4PWPR	296-12678-2-ND	2W Stereo Audio Power Amp	24-HTSSOP	2908.00/2,000		
TPA6017A2EVM	296-20586-ND	Evaluation Module for TPA6017A2	—	50.00	—	—
TPA6017A2PWPR	296-12506-1-ND	2W Stereo Audio Power Amp	20-HTSSOP	2.08	1.66	1.25
TPA6017A2PWPR	296-12506-2-ND	2W Stereo Audio Power Amp	20-HTSSOP	2158.00/2,000		
TPA6020A2EVM	296-21141-ND	Evaluation Module for TPA6020A2	—	50.00	—	—
TPA6020A2RGWR	296-18667-1-ND	2.8W Stereo Fully Diff. Audio Power Amp	20-QFN	2.59	2.07	1.61
TPA6020A2RGWR	296-18667-2-ND	2.8W Stereo Fully Diff. Audio Power Amp	20-QFN	4347.00/3,000		
TPA6021A4EVM	296-21142-ND	Evaluation Module for TPA6021A4	—	50.00	—	—
TPA6021A4N	296-18249-5-ND	2W Stereo Audio Power Amp	20-Dip	2.10	1.68	1.26
TPA6030A4EVM	296-20587-ND	Evaluation Module for TPA6030A4	—	50.00	—	—
TPA6030A4PWP	296-13866-5-ND	3W Stereo Audio Power Amp	28-HTSSOP	3.15	2.52	1.96
TPA6040A4RHBR	296-21714-1-ND	2W Stereo Audio Power Amp	32-QFN	2.45	1.97	1.53
TPA6040A4RHBR	296-21714-2-ND	2W Stereo Audio Power Amp	32-QFN	4119.00/3,000		
TPA6041A4RHBR	296-22938-1-ND	2W Stereo Audio Power Amp ***NEW!***	32-QFN	2.45	1.97	1.53
TPA6041A4RHBR	296-22938-2-ND	2W Stereo Audio Power Amp ***NEW!***	32-QFN	4119.00/3,000		
TPA6043A4RHBR	296-22583-1-ND	2W Stereo Audio Power Amp ***NEW!***	32-QFN	2.45	1.97	1.53
TPA6043A4RHBR	296-22583-2-ND	2W Stereo Audio Power Amp ***NEW!***	32-QFN	4119.00/3,000		
TPA6100A2DGKR	296-7016-1-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1.35	1.13	.90
TPA6100A2DGKR	296-7016-2-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1462.50/2,500		
TPA6100A2DR	296-7017-1-ND	50mW Ultra-LV Audio Power Amp	8-SOIC	1.05	.88	.70
TPA6100A2DR	296-7017-2-ND	50mW Ultra-LV Audio Power Amp	8-SOIC	1137.50/2,500		
TPA6100A2EVM	296-10841-ND	Evaluation Module for TPA6100A2	—	50.00	—	—
TPA6101A2D	296-7018-5-ND	50mW Ultra-LV Fixed Gain Stereo Headphone Audio Power Amp	8-SOIC	1.05	.88	.70
TPA6101A2DGKR	296-7019-1-ND	50mW Ultra-LV Fixed Gain Stereo Headphone Audio Power Amp	8-MSOP	1.35	1.13	.90
TPA6101A2DGKR	296-7019-2-ND	50mW Ultra-LV Fixed Gain Stereo Headphone Audio Power Amp	8-MSOP	1462.50/2,500		
TPA6101A2EVM	296-10842-ND	Evaluation Module for TPA6101A2	—	50.00	—	—
TPA6101A2ZQYR	296-21674-1-ND	50mW Ultra-LV Fixed Gain Stereo Headphone Audio Power Amp	15-BGA	1.05	.88	.70
TPA6101A2ZQYR	296-21674-2-ND	50mW Ultra-LV Fixed Gain Stereo Headphone Audio Power Amp	15-BGA	1137.50/2,500		
TPA6102A2D	296-7020-5-ND	50mW Ultra-LV Audio Power Amp	8-SOIC	1.05	.88	.70
TPA6102A2EVM	296-11637-ND	Evaluation Module for TPA6102A2	—	50.00	—	—
TPA6102A2DGKR	296-7021-1-ND	50mW Ultra-Low Voltage Audio Power Amp	8-MSOP	1.35	1.13	.90
TPA6102A2DGKR	296-7021-2-ND	50mW Ultra-Low Voltage Audio Power Amp	8-MSOP	1462.50/2,500		
TPA6110A2DGN	296-10843-5-ND	150mW Stereo Power Amp	8-MSOP	.84	.70	.56
TPA6110A2EVM	296-10844-ND	Evaluation Module for TPA6110A2	—	50.00	—	—
TPA6111A2DGN	296-10845-5-ND	150mW Stereo Power Amp	8-MSOP	1.02	.85	.68
TPA6111A2DR	296-10846-1-ND	150mW Stereo Power Amp	8-SOIC	.75	.63	.50
TPA6111A2DR	296-10846-2-ND	150mW Stereo Power Amp	8-SOIC	812.50/2,500		
TPA6111A2EVM	296-10847-ND	Evaluation Module for TPA6111A2	—	50.00	—	—
TPA6112A2DGQR	296-10848-1-ND	150mW Stereo Power Amp	10-HTSSOP	.87	.73	.58
TPA6112A2DGQR	296-10848-2-ND	150mW Stereo Power Amp	10-HTSSOP	942.50/2,500		
TPA6112A2EVM	296-10849-ND	Evaluation Module for TPA6112A2	—	50.00	—	—
TPA6120A2DWP	296-16920-5-ND	High Fidelity Headphone Amp	20-SOIC	4.28	3.42	2.66
TPA6120A2EVM	296-18927-ND	Evaluation Module for TPA6120A2	—	101.00	—	—
TPA6130A2RTJR	296-21656-1-ND	138mW DirectPath™ Stereo Headphone Amp	20-QFN	3.26	2.61	2.03
TPA6130A2RTJR	296-21656-2-ND	138mW DirectPath™ Stereo Headphone Amp	20-QFN	5481.00/3,000		
TPA6130A2YZHT	296-21344-1-ND	138mW DirectPath™ Stereo Headphone Amp	16-DSBGA	3.83	3.06	2.38
TPA6130A2YZHT	296-21344-2-ND	138mW DirectPath™ Stereo Headphone Amp	16-DSBGA	565.25/250		
TPA6203A1DGNR	296-19604-1-ND	1.25W Mono Diff. Audio Power Amp	8-MSOP	.92	.69	.52
TPA6203A1DGNR	296-19604-2-ND	1.25W Mono Diff. Audio Power Amp	8-MSOP	747.50/2,500		
TPA6203A1DRBR	296-19790-1-ND	1.25W Mono Diff. Audio Power Amp	8-QFN	.92	.69	.52
TPA6203A1DRBR	296-19790-2-ND	1.25W Mono Diff. Audio Power Amp	8-QFN	897.00/3,000		
TPA6203A1EVM	296-13569-ND	Evaluation Module for TPA6203A1	—	50.00	—	—
TPA6203A1GQVR	296-12753-1-ND	1.25W Mono Diff. Audio Power Amp	8-BGA	.92	.69	.52
TPA6203A1GQVR	296-12753-2-ND	1.25W Mono Diff. Audio Power Amp	8-BGA	747.50/2,500		
TPA6203A1ZQVR	296-17902-1-ND	1.25W Mono Diff. Audio Power Amp	8-BGA	.92	.69	.52
TPA6203A1ZQVR	296-17902-2-ND	1.25W Mono Diff. Audio Power Amp	8-BGA	747.50/2,500		
TPA6204A1DRBR	296-17059-1-ND	1.7W Diff. Audio Power Amp	8-QFN	1.38	1.15	.92
TPA6204A1DRBR	296-17059-2-ND	1.7W Diff. Audio Power Amp	8-QFN	1794.00/3,000		
TPA6204A1EVM	296-18928-ND	Evaluation Module for TPA6204A1	—	50.00	—	—
TPA6205A1DGNR	296-21262-1-ND	1.25W Mono Fully Diff. Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA6205A1DGNR	296-21262-2-ND	1.25W Mono Fully Diff. Audio Power Amp	8-MSOP	1397.50/2,500		
TPA6205A1DRBT	296-20784-1-ND	1.25W Mono Fully Diff. Audio Power Amp	8-QFN	1.44	1.20	.96
TPA6205A1DRBT	296-20784-2-ND	1.25W Mono Fully Diff. Audio Power Amp	8-QFN	180.00/250		
TPA6205A1ZQVR	296-21425-1-ND	1.25W Mono Fully Diff. Audio Power Amp	8-BGA	1.29	1.08	.86
TPA6205A1ZQVR	296-21425-2-ND	1.25W Mono Fully Diff. Audio Power Amp	8-BGA	1397.50/2,500		
TPA6211A1DGN	296-15325-5-ND	3.1W Mono Diff. Audio Power Amp	8-HTSSOP	.78	.65	.52
TPA6211A1DRBR	296-17101-1-ND	3.1W Mono Diff. Audio Power Amp	8-QFN	.78	.65	.52
TPA6211A1DRBR	296-17101-2-ND	3.1W Mono Diff. Audio Power Amp	8-QFN	1014.00/3,000		
TPA6211A1EVM	296-18929-ND	Evaluation Module for TPA6211A1	—	50.00	—	—
TRF1123IRTMR	296-18253-1-ND	2.1GHz to 2.7GHz, 1W Power Amp	32-QFN	9.50	7.60	6.42
TRF1123IRTMR	296-18253-2-ND	2.1GHz to 2.7GHz, 1W Power Amp	32-QFN	17670.00/3,000		
TRF1223IRTMR	296-18254-1-ND	3.3GHz to 3.8GHz, 1W Power Amp	32-QFN	8.33	7.50	6.65
TRF1223IRTMR	296-18254-2-ND	3.3GHz to 3.8GHz, 1W Power Amp	32-QFN	18225.00/3,000		
TS321IDBVR	296-21173-1-ND	Low Power Single Op Amp	SOT-23-5	.80	.60	.45
TS321IDBVR	296-21173-2-ND	Low Power Single Op Amp	SOT-23-5	780.00/3,000		
TS321IDR	296-21174-1-ND	Low Power Single Op Amp	8-SOIC	.80	.60	.45
TS321IDR	296-21174-2-ND	Low Power Single Op Amp	8-SOIC	650.00/2,500		
TSM102AIDR	296-21198-1-ND	Dual Op Amp, Dual Comparator, and Voltage Reference	16-SOIC	.96	.80	.64
TSM102AIDR	296-21198-2-ND	Dual Op Amp, Dual Comparator, and Voltage Reference	16-SOIC	1040.00/2,500		
TSM102AIPWR	296-21199-1-ND	Dual Op Amp, Dual Comparator, and Voltage Reference	16-TSSOP	.96	.80	.64
TSM102AIPWR	296-21199-2-ND	Dual Op Amp, Dual Comparator, and Voltage Reference	16-TSSOP	852.00/2,000		
TSM102IDR	296-21200-1-ND	Dual Op Amp, Dual Comparator, and Voltage Reference	16-SOIC	.96	.72	.54
TSM102IDR	296-21200-2-ND	Dual Op Amp, Dual Comparator, and Voltage Reference	16-SOIC	780.00/2,500		
TSM102IPWR	296-21201-1-ND	Dual Op Amp, Dual Comparator, and Voltage Reference	16-TSSOP	.96	.72	.54
TSM102IPWR	296-21201-2-ND	Dual Op Amp, Dual Comparator, and Voltage Reference	16-TSSOP	638.00/2,000		
TSM104WAIDR	296-21202-1-ND	Quad Op Amp and Programmable Voltage Reference	16-SOIC	.90	.75	.60
TSM104WAIDR	296-21202-2-ND	Quad Op Amp and Programmable Voltage Reference	16-SOIC	975.00/2,500		
TSM104WAIPWR	296-21203-1-ND	Quad Op Amp and Programmable Voltage Reference	16-TSSOP	.90	.75	.60
TSM104WAIPWR	296-21203-2-ND	Quad Op Amp and Programmable Voltage Reference	16-TSSOP	798.00/2,000		
TSM104WIDR	296-21204-1-ND	Quad Op Amp and Programmable Voltage Reference	16-SOIC	.88	.66	.50
TSM104WIDR	296-21204-2-ND	Quad Op Amp and Programmable Voltage Reference	16-SOIC	715.00/2,500		
TSM104WIPWR	296-21205-1-ND	Quad Op Amp and Programmable Voltage Reference	16-TSSOP	.88	.66	.50
TSM104WIPWR	296-21205-2-ND	Quad Op Amp and Programmable Voltage Reference	16-TSSOP	586.00/2,000		
UA733CN	296-11105-5-ND	Differential Video Amplifier	14-Dip	.87	.73	.58
UA741CD	296-11106-5-ND	General Purpose Op Amp	8-SOIC	.40	.32	.24
UA741CDR	296-15051-1-ND	General Purpose Op Amp	8-SOIC	.40	.32	.24
UA741CDR	296-15051-2-ND	General Purpose Op Amp	8-SOIC	270.00/2,500		
UA741CP	296-11107-5-ND	General Purpose Op Amp	8-Dip	.36	.29	.20
UA747CN	296-12963-5-ND	Dual General Purpose Op Amp	14-Dip	.66	.50	.38
UC3176QP	296-11210-5-ND	Full Bridge Power Amp	28-PLCC	10.58	9.53	8.45
UC3178QP	296-12754-5-ND	Full Bridge Power Amp	28-PLCC	5.90	4.72	3.99
UC3901D	296-11338-5-ND	Isolated Feedback Generator	14-SOIC	4.61	3.69	2.87
UC3901N	296-11339-5-ND	Isolated Feedback Generator	14-Dip	4.61	3.69	2.87
VCA810AID	296-17491-5-ND	High Gain Adjust Range, Wideband, Voltage Controlled Amp	8-SOIC	12.50	11.25	9.98
VCA810ID	296-17317-5-ND	High Gain Adjust Range, Wideband, Voltage Controlled Amp	8-SOIC	9.58	8.63	7.65
VCA820ID	296-22871-5-ND	Wideband, Linear in dB VGA ***NEW!***	14-SOIC	6.90	5.52	4.66
VCA820IDGST	296-22872-1-ND	Wideband, Linear in dB VGA ***NEW!***	10-MSOP	7.10	5.68	4.80
VCA820IDGST	296-22872-2-ND	Wideband, Linear in dB VGA ***NEW!***	10-MSOP	1153.75/250		
VCA821ID	296-22989-5-ND	Ultra-Wideband, Linear in dB VGA ***NEW!***	14-SOIC	8.30	6.64	5.61
VCA821IDGST	296-22990-1-ND	Ultra-Wideband, Linear in dB VGA ***NEW!***	10-MSOP	8.50	6.80	5.74
VCA821IDGST	296-22990-2-ND	Ultra-Wideband, Linear in dB VGA ***NEW!***	10-MSOP	1381.25/250		
VCA822ID	296-22682-5-ND	Wideband, Linear in V/V VGA ***NEW!***	14-SOIC	6.90	5.52	4.66
VCA822IDGST	296-22683-1-ND	Wideband, Linear in V/V VGA ***NEW!***	10-MSOP	7.10	5.68	4.80
VCA822IDGST	296-22683-2-ND	Wideband, Linear in V/V VGA ***NEW!***	10-MSOP	1153.75/250		
VCA824ID	296-22898-5-ND	Ultra Wideband, Linear in V/V VGA ***NEW!***	14-SOIC	8.30	6.64	5.61
VCA824IDGST	296-22899-1-ND	Ultra Wideband, Linear in V/V VGA ***NEW!***	10-MSOP	8.50	6.80	5.74
VCA824IDGST	296-22899-2-ND	Ultra Wideband, Linear in V/V VGA ***NEW!***	10-MSOP	1381.25/250		

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AMPLIFIERS *(Continued)*

T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
VCA2611Y/250	296-15778-1-ND	Dual Variable Gain Amp with Low Noise Preamp	48-TQFP	17.03	15.89	14.76
VCA2611Y/250	296-15778-2-ND	Dual Variable Gain Amp with Low Noise Preamp	48-TQFP	3617.75/250		
VCA2612Y/250	VCA2612YCT-ND	Dual Low Noise Variable Gain Amp	48-TQFP	20.63	19.25	17.88
VCA2612Y/250	VCA2612YTR-ND	Dual Low Noise Variable Gain Amp	48-TQFP	4382.75/250		
VCA2613Y/250	VCA2613YCT-ND	Dual Low Noise Variable Gain Amp	48-TQFP	16.95	15.82	14.69
VCA2613Y/250	VCA2613YTR-ND	Dual Low Noise Variable Gain Amp	48-TQFP	3602.00/250		
VCA2614Y/250	VCA2614Y/250CT-ND	Dual Variable Gain Amp with Input Buffer	32-TQFP	15.41	13.88	12.31
VCA2614Y/250	VCA2614Y/250TR-ND	Dual Variable Gain Amp with Input Buffer	32-TQFP	2948.44/250		
VCA2615EVM	296-21211-ND	Evaluation Module for VCA2615	—	152.00	—	—
VCA2615RGZT	296-19304-1-ND	Dual Low Noise Variable Gain Amp with Preamp	48-QFN	14.83	13.35	11.84
VCA2615RGZT	296-19304-2-ND	Dual Low Noise Variable Gain Amp with Preamp	48-QFN	2837.00/250		
VCA2616YT	VCA2616YT-ND	Dual Variable Gain Amp with Low Noise Preamp	48-TQFP	17.03	15.89	14.76
VCA2617EVM	296-21212-ND	Evaluation Module for VCA2617	—	152.00	—	—
VCA2617RHBT	296-18347-1-ND	Dual Variable Gain Amp	32-QFN	14.58	13.13	11.64
VCA2617RHBT	296-18347-2-ND	Dual Variable Gain Amp	32-QFN	2789.00/250		
VCA2618YT	296-14062-1-ND	Dual Variable Gain Amp with Input Buffer	32-TQFP	15.41	13.88	12.31
VCA2618YT	296-14062-2-ND	Dual Variable Gain Amp with Input Buffer	32-TQFP	2948.50/250		
VCA2619YT	296-19047-ND	Dual Variable Gain Amp	32-TQFP	15.41	13.88	12.31
VCA8500IRGCT	296-23338-1-ND	8-Channel Variable Gain Amp with Low Noise Preamp ***NEW!***	64-VQFN	48.00	44.80	41.60
VCA8500IRGCT	296-23338-2-ND	8-Channel Variable Gain Amp with Low Noise Preamp ***NEW!***	64-VQFN	10200.00/250		
VCA8613YT	296-15991-1-ND	8-Channel Variable Gain Amp	64-HVQFP	38.10	35.56	33.02
VCA8613YT	296-15991-2-ND	8-Channel Variable Gain Amp	64-HVQFP	8096.25/250		

AUDIO VOLUME CONTROL

T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
PGA2310EVM	296-13554-ND	Evaluation Module for PGA2310	—	101.00	—	—
PGA2310PA	296-13113-5-ND	High Performance Stereo Audio Volume Control	16-Dip	16.58	14.93	13.24
PGA2310UA/1K	296-12255-1-ND	High Performance Stereo Audio Volume Control	16-SOIC	16.58	14.93	13.24
PGA2310UA/1K	296-12255-2-ND	High Performance Stereo Audio Volume Control	16-SOIC	12288.00/1,000		
PGA2311P	PGA2311P-ND	5V, High Performance Stereo Audio Volume Control	16-Dip	7.50	6.00	5.07
PGA2311PA	PGA2311PA-ND	5V, High Performance Stereo Audio Volume Control	16-Dip	8.94	7.16	6.04
PGA2311U	PGA2311U-ND	5V, High Performance Stereo Audio Volume Control	16-SOIC	7.50	6.00	5.07
PGA2311UA	PGA2311UA-ND	5V, High Performance Stereo Audio Volume Control	16-SOIC	8.94	7.16	6.04
PGA2320IDW	296-17962-5-ND	Stereo Audio Volume Control	16-SOIC	13.24	11.93	10.58
PGA4311EVM	296-13555-ND	Evaluation Module for PGA4311	—	101.00	—	—
PGA4311U	PGA4311U-ND	4-Channel Audio Volume Control	28-SOIC	9.91	8.93	7.92
PGA4311UA	PGA4311UA-ND	4-Channel Audio Volume Control	28-SOIC	11.75	10.58	9.38

DIGITAL AUDIO INTERFACE

T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
DIR9001IPWQ1	296-22152-5-ND	96kHz, 24-Bit Digital Audio Interface Receiver ***NEW!***	28-TSSOP	8.50	6.80	5.74
DIR9001PW	296-21389-5-ND	96kHz, 24-Bit Digital Audio Interface Receiver	28-TSSOP	4.39	3.51	2.73
DIX4192IPFBR	296-20643-1-ND	Integrated Digital Audio Interface Receiver/Transmitter	48-TQFP	9.90	7.92	6.69
DIX4192IPFBR	296-20643-2-ND	Integrated Digital Audio Interface Receiver/Transmitter	48-TQFP	6188.00/1,000		

BUS TERMINATION ARRAYS and NETWORKS

T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
TPD2E001DRLR	296-21883-1-ND	Low Cap. 2-Channel ESD Array	SOT-553-5	.48	.36	.27
TPD2E001DRLR	296-21883-2-ND	Low Cap. 2-Channel ESD Array	SOT-553-5	624.00/4,000		
TPD2E001DRSR	296-22850-1-ND	Low Cap. 2-Channel ESD Array ***NEW!***	6-SON	.76	.57	.43
TPD2E001DRSR	296-22850-2-ND	Low Cap. 2-Channel ESD Array ***NEW!***	6-SON	253.00/1,000		
TPD2E001DRYR	296-21884-1-ND	Low Cap. 2-Channel ESD Array	6-SON	.48	.36	.27
TPD2E001DRYR	296-21884-2-ND	Low Cap. 2-Channel ESD Array	6-SON	765.00/5,000		
TPD3E001DRLR	296-21885-1-ND	Low Cap. 3-Channel ESD Array	SOT-553-5	.60	.45	.34
TPD3E001DRLR	296-21885-2-ND	Low Cap. 3-Channel ESD Array	SOT-553-5	780.00/4,000		
TPD3E001DRSR	296-22851-1-ND	Low Cap. 3-Channel ESD Array ***NEW!***	6-SON	.84	.63	.48
TPD3E001DRSR	296-22851-2-ND	Low Cap. 3-Channel ESD Array ***NEW!***	6-SON	279.00/1,000		
TPD3E001DRYR	296-21886-1-ND	Low Cap. 3-Channel ESD Array	6-SON	.60	.45	.34
TPD3E001DRYR	296-21886-2-ND	Low Cap. 3-Channel ESD Array	6-SON	955.00/5,000		
TPD4E001DRLR	296-21887-1-ND	Low Cap. 4-Channel ESD Array	SOT-553-6	.76	.57	.43
TPD4E001DRLR	296-21887-2-ND	Low Cap. 4-Channel ESD Array	SOT-553-6	988.00/4,000		
TPD4E001DRSR	296-22852-1-ND	Low Cap. 4-Channel ESD Array ***NEW!***	6-SON	.92	.69	.52
TPD4E001DRSR	296-22852-2-ND	Low Cap. 4-Channel ESD Array ***NEW!***	6-SON	306.00/1,000		
TPD4E002DRLR	296-21694-1-ND	Low Cap. 4-Channel ESD Array	SOT-553-5	.76	.57	.43
TPD4E002DRLR	296-21694-2-ND	Low Cap. 4-Channel ESD Array	SOT-553-5	988.00/4,000		
TPD6E001RSER	296-21888-1-ND	Low Cap. 6-Channel ESD Array	10-QFN	.75	.63	.50
TPD6E001RSER	296-21888-2-ND	Low Cap. 6-Channel ESD Array	10-QFN	975.00/3,000		
TPD6E001RSFR	296-21889-1-ND	Low Cap. 6-Channel ESD Array	12-QFN	.75	.63	.50
TPD6E001RSFR	296-21889-2-ND	Low Cap. 6-Channel ESD Array	12-QFN	666.00/2,000		

BUS SOLUTIONS

T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
		Clock Drivers				
CDC111FN	296-6675-5-ND	3.3V Differential Clock Driver	28-PLCC	12.83	11.55	10.25
CDC203DW	296-6676-5-ND	3.3V, 6-Bit Inverter/Clock Driver	20-SOIC	6.90	5.52	4.66
CDC203DWR	296-6676-1-ND	3.3V, 6-Bit Inverter/Clock Driver	20-SOIC	6.90	5.52	4.66
CDC203DWR	296-6676-2-ND	3.3V, 6-Bit Inverter/Clock Driver	20-SOIC	8626.00/2,000		
CDC204DW	296-6677-5-ND	6-Bit Inverter/Clock Driver	20-SOIC	6.00	4.80	4.05
CDC204DWR	296-6677-1-ND	6-Bit Inverter/Clock Driver	20-SOIC	6.00	4.80	4.05
CDC204DWR	296-6677-2-ND	6-Bit Inverter/Clock Driver	20-SOIC	7500.00/2,000		
CDC208DW	296-6678-5-ND	Dual 1-to-4 Clock Driver	20-SOIC	8.20	6.56	5.54
CDC318ADL	296-1383-5-ND	1-18 Line Clock Driver	48-SSOP	2.93	2.34	1.82
CDC319DB	296-17640-5-ND	1-10 Line Clock Driver	28-SSOP	3.22	2.58	2.01
CDC328AD	296-6693-5-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOIC	7.10	5.68	4.80
CDC328ADR	296-6693-1-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOIC	7.10	5.68	4.80
CDC328ADR	296-6693-2-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOIC	11005.00/2,500		
CDC328ADBR	296-6694-1-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SSOP	7.10	5.68	4.80
CDC328ADBR	296-6694-2-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SSOP	8876.00/2,000		
CDC329AD	296-6696-5-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOIC	6.20	4.96	4.19
CDC337DW	296-6697-5-ND	1-8 Clock Driver with Clear	20-SOIC	8.40	6.72	5.67
CDC339DB	296-6698-5-ND	1-8 Clock Driver with Clear	20-SSOP	7.00	5.60	4.73
CDC339DBR	296-6698-1-ND	1-8 Clock Driver with Clear	20-SSOP	7.00	5.60	4.73
CDC339DBR	296-6698-2-ND	1-8 Clock Driver with Clear	20-SSOP	8750.00/2,000		
CDC339DW	296-6699-5-ND	1-8 Clock Driver with Clear	20-SOIC	7.00	5.60	4.73
CDC340DW	296-6700-5-ND	1-8 Clock Driver with Tight AC Spec.	20-SOIC	8.40	6.72	5.67
CDC341DW	296-6701-5-ND	1-8 Clock Driver with Tight AC Spec.	20-SOIC	9.00	7.20	6.08
CDC351DB	296-6702-5-ND	Tri-State 3.3V Clock Driver	24-SSOP	9.41	8.48	7.52
CDC351DW	296-6703-5-ND	Tri-State 3.3V Clock Driver	24-SOIC	9.41	8.48	7.52
CDC351IDB	296-15849-5-ND	Tri-State 3.3V Clock Driver	24-SSOP	10.83	9.75	8.65
CDC351IDW	296-15850-5-ND	Tri-State 3.3V Clock Driver	24-SOIC	10.83	9.75	8.65
CDC391D	296-6704-5-ND	1-6 Clock Driver w/Selectable Polarity	16-SOIC	6.80	5.44	4.59
CDC509PWR	296-6705-1-ND	3.3V PLL Clock Driver	24-TSSOP	5.40	4.32	3.36
CDC509PWR	296-6705-2-ND	3.3V PLL Clock Driver	24-TSSOP	6120.00/2,000		
CDC516DGG	296-20833-5-ND	3.3V PLL Clock Driver	48-TSSOP	5.52	4.42	3.73
CDC536DB	296-6707-5-ND	3.3V PLL Clock Driver	28-SSOP	4.50	3.60	2.80
CDC536DBR	296-6707-1-ND	3.3V PLL Clock Driver	28-SSOP	4.50	3.60	2.80
CDC536DBR	296-6707-2-ND	3.3V PLL Clock Driver	28-SSOP	5100.00/2,000		
CDC582PAH	296-6708-5-ND	3.3V PLL Clock Driver	52-TQFP	8.33	7.50	6.65
CDC586PAH	296-6709-5-ND	Tri-State 3.3V PLL Clock Driver	52-TQFP	9.33	8.40	7.45
CDC706PW	296-21381-5-ND	Prog. 3-PLL Clock Synthesizer/Multiplier/ Divider	20-TSSOP	7.20	5.76	4.86
CDC857-2DGG	296-14163-5-ND	2.5V PLL Clock Driver	48-TSSOP	9.48	8.54	7.57
CDC906PW	296-21382-5-ND	Prog. 3-PLL Clock Synthesizer/Multiplier/ Divider	20-TSSOP	4.95	3.96	3.08
CDC924DL	296-6714-5-ND	133MHz Clock Synthesizer/Driver	56-SSOP	3.85	3.08	2.40
CDC925DL	296-6715-5-ND	133MHz Clock Synthesizer/Driver	56-SSOP	5.45	4.36	3.39
CDC930DL	296-15611-5-ND	133MHz Diff. Clock Syn./Driver	56-SSOP	2.68	2.15	1.67
CDC950DGG	296-9435-5-ND	133MHz Diff. Clock Syn./Driver	48-TSSOP	2.79	2.24	1.74
CDC960DL	296-12725-5-ND	200MHz Clock Synthesizer/Driver	48-SSOP	3.74	2.99	2.33
CDC2351DB	296-12628-5-ND	Tri-St. 3.3V, 1-10 Line Clock Driver	24-SSOP	8.66	7.80	6.92
CDC2351DW	296-6680-5-ND	Tri-St. 3.3V, 1-10 Line Clock Driver	24-SOIC	8.66	7.80	6.92
CDC2351MDBREP	296-18093-1-ND	Tri-St. 3.3V, 1-10 Line Clock Driver ***NEW!***	24-SSOP	14.73	13.26	11.76
CDC2351MDBREP	296-18093-2-ND	Tri-St. 3.3V, 1-10 Line Clock Driver ***NEW!***	24-SSOP	21834.00/2,000		
CDC2351QDB	296-9434-5-ND	Tri-State 1-10 Buffer Clock Driver	24-SSOP	10.16	9.15	8.12
CDC2509APWR	296-6681-1-ND	Tri-State 3.3V PLL Clock Driver	24-TSSOP	4.34	3.48	2.71
CDC2509APWR	296-6681-2-ND	Tri-State 3.3V PLL Clock Driver	24-TSSOP	4922.00/2,000		
CDC2509BPW	296-20832-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.68	3.75	2.92
CDC2509CPW	296-15080-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.34	3.48	2.71
CDC2509CPWR	296-6683-1-ND	3.3V PLL Clock Driver	24-TSSOP	4.34	3.48	2.71
CDC2509CPWR	296-6683-2-ND	3.3V PLL Clock Driver	24-TSSOP	4922.00/2,000		
CDC2510APWR	296-6684-1-ND	3.3V PLL Clock Driver	24-TSSOP	9.03	8.13	7.21
CDC2510APWR	296-6684-2-ND	3.3V PLL Clock Driver	24-TSSOP	13388.00/2,000		
CDC2510BPWR	296-6685-1-ND	3.3V PLL Clock Driver	28-TSSOP	9.03	8.13	7.21
CDC2510BPWR	296-6685-2-ND	3.3V PLL Clock Driver	28-TSSOP	13388.00/2,000		
CDC2510CPW	296-6686-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.34	3.48	2.71
CDC2510CPWR	296-6686-1-ND	3.3V PLL Clock Driver	24-TSSOP	4.34	3.48	2.71
CDC2510CPWR	296-6686-2-ND	3.3V PLL Clock Driver	24-TSSOP	4922.00/2,000		
CDC2510PWR	296-13641-1-ND	3.3V PLL Clock Driver	24-TSSOP	6.72	5.38	4.54
CDC2510PWR	296-13641-2-ND	3.3V PLL Clock Driver	24-TSSOP	8400.00/2,000		
CDC2516DGGR	296-6687-1-ND	Tri-State 3.3V PLL Clock Driver	48-TSSOP	5.80	4.64	3.92
CDC2516DGGR	296-6687-2-ND	Tri-State 3.3V PLL Clock Driver	48-TSSOP	7250.00/2,000		
CDC2536DB	296-6688-5-ND	Tri-State 3.3V PLL Clock Driver	28-SSOP	4.50	3.60	2.80
CDC2582PAH	296-6689-5-ND	3.3V Clock Driver	52-TQFP	8.33	7.50	6.65
CDC2586PAH	296-6690-5-ND	Tri-State 3.3V PLL Clock Driver	52-TQFP	9.33	8.40	7.45
CDC5801ADBQ	296-21221-5-ND	Low Jitter Clock Multiplier/Divider	24-QSOP	5.90	4.72	3.99
CDC5801ADBQR	296-19401-1-ND	Low Jitter Clock Multipler/Divider	24-QSOP	5.90	4.72	3.99
CDC5801ADBQR	296-19401-2-ND	Low Jitter Clock Multipler/Divider	24-QSOP	9145.00/2,500		
CDC5801DBQ	296-13774-5-ND	Low Jitter Clock Multiplier/Divider	24-QSOP	5.96	4.77	4.03
CDC5806PW	296-17107-5-ND	Three PLLs Based Clock Generator	20-TSSOP	4.84	3.87	3.01
CDC7005-EVM	296-17044-ND	Evaluation Module for CDC7005 Series	—	203.00	—	—
CDC7005GVAT	296-17399-1-ND	3.3V High Performance Clock Synthesizer/ Jitter Cleaner	64-BGA	15.00	14.00	13.00
CDC7005GVAT	296-17399-2-ND	3.3V High Performance Clock Synthesizer/ Jitter Cleaner	64-BGA	3187.50/250		
CDC7005QFN-EVM	296-20834-ND	Evaluation Module for CDC7005-QFN	—	203.00	—	—
CDC7005RGZT	296-18220-1-ND	3.3V High Performance Clock Synthesizer/ Jitter Cleaner	48-QFN	16.50	15.40	14.30
CDC7005RGZT	296-18220-2-ND	3.3V High Performance Clock Synthesizer/ Jitter Cleaner	48-QFN	3506.25/250		
CDC7005ZVAT	296-15744-1-ND	3.3V High Performance Clock Synthesizer/ Jitter Cleaner	64-BGA	16.50	15.40	14.30
CDC7005ZVAT	296-15744-2-ND	3.3V High Performance Clock Synthesizer/ Jitter Cleaner	64-BGA	3506.25/250		
CDC421100RGET	296-21725-1-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	12.83	11.55	10.25
CDC421100RGET	296-21725-2-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	2454.50/250		
CDC421106RGET	296-21726-1-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	12.83	11.55	10.25
CDC421106RGET	296-21726-2-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	2454.50/250		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CDC421125RGET	296-21727-1-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	12.83	11.55	10.25
CDC421125RGET	296-21727-2-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	2454.50/250		
CDC421156RGET	296-21728-1-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	12.83	11.55	10.25
CDC421156RGET	296-21728-2-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	2454.50/250		
CDC421212RGET	296-21729-1-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	12.83	11.55	10.25
CDC421212RGET	296-21729-2-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	2454.50/250		
CDC421250RGET	296-21730-1-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	12.83	11.55	10.25
CDC421250RGET	296-21730-2-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	2454.50/250		
CDC421312RGET	296-21731-1-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	12.83	11.55	10.25
CDC421312RGET	296-21731-2-ND	Fully Integrated Fixed Freq., Crystal Oscillator Clock Generator	24-QFN	2454.50/250		
CDCD5704PW	296-21383-5-ND	Rambus™ XDR™ Clock Generator	28-TSSOP	5.60	4.48	3.78
CDCDLP223PW	296-21384-5-ND	3.3V Clock Synthesizer for DLP™ System	20-TSSOP	5.80	4.64	3.92
CDCE421RGET	296-21695-1-ND	Fully Integrated Wide Range, Crystal Oscillator Clock Generator	24-QFN	12.83	11.55	10.25
CDCE421RGET	296-21695-2-ND	Fully Integrated Wide Range, Crystal Oscillator Clock Generator	24-QFN	2454.50/250		
CDCE706PW	296-20674-5-ND	Prog. 3-PLL Clock Synthesizer/ Multiplier/Divider	20-TSSOP	7.20	5.76	4.86
CDCE906PW	296-20675-5-ND	Prog. 3-PLL Clock Synthesizer/ Multiplier/Divider	20-TSSOP	4.95	3.96	3.08
CDCE913PW	296-22670-5-ND	Programmable 1-PLL VCXO Clock Synthesizer ***NEW!***	14-TSSOP	3.60	2.88	2.24
CDCE925PW	296-22031-5-ND	Programmable 2-PLL VCXO Clock Synthesizer ***NEW!***	16-TSSOP	4.05	3.24	2.52
CDCE937PW	296-22706-5-ND	Programmable 3-PLL VCXO Clock Synthesizer ***NEW!***	20-TSSOP	4.50	3.60	2.80
CDCE949PW	296-21984-ND	Programmable 4-PLL VCXO Clock Synthesizer ***NEW!***	24-TSSOP	4.95	3.96	3.08
CDCEL913PW	296-22917-5-ND	Programmable 1-PLL VCXO Clock Synthesizer ***NEW!***	14-TSSOP	3.60	2.88	2.24
CDCEL925PW	296-22882-5-ND	Programmable 2-PLL VCXO Clock Synthesizer ***NEW!***	16-TSSOP	4.05	3.24	2.52
CDCEL937PW	296-22918-5-ND	Programmable 3-PLL VCXO Clock Synthesizer ***NEW!***	20-TSSOP	4.50	3.60	2.80
CDCEL949PW	296-22867-5-ND	Programmable 4-PLL VCXO Clock Synthesizer ***NEW!***	24-TSSOP	4.95	3.96	3.08
CDCF2509PW	296-15356-5-ND	3.3V PLL Clock Driver	24-TSSOP	7.12	5.70	4.81
CDCF2510PW	296-6718-5-ND	3.3V PLL Clock Driver	24-TSSOP	3.96	3.17	2.47
CDCF2510PWR	296-6718-1-ND	3.3V PLL Clock Driver	24-TSSOP	3.96	3.17	2.47
CDCF2510PWR	296-6718-2-ND	3.3V PLL Clock Driver	24-TSSOP	4488.00/2,000		
CDCF5801ADBQ	296-19620-5-ND	Clock Multiplier with Delay Control and Phase Alignment	24-QSOP	5.90	4.72	3.99
CDCF5801DBQ	296-18405-5-ND	Clock Multiplier with Delay Control and Phase Alignment	24-QSOP	5.96	4.77	4.03
CDCFR83ADBQ	296-18599-5-ND	533MHz Direct Rambus™ Clock Generator	24-QSOP	4.07	3.26	2.54
CDCFR83DBQ	296-12311-5-ND	533MHz Direct Rambus™ Clock Generator	24-QSOP	3.82	3.44	2.68
CDCL1810RGZT	296-21571-1-ND	1.8V, 10 Output, High Performance Clock Distributor	48-QFN	11.00	9.90	8.78
CDCL1810RGZT	296-21571-2-ND	1.8V, 10 Output, High Performance Clock Distributor	48-QFN	2103.75/250		
CDCL6010RGZT	296-21572-1-ND	1.8V, 11 Output, Clock Multiplier/Distributor/ Jitter Cleaner/Buffer	48-QFN	13.74	12.38	10.98
CDCL6010RGZT	296-21572-2-ND	1.8V, 11 Output, Clock Multiplier/Distributor/ Jitter Cleaner/Buffer	48-QFN	2629.75/250		
CDCLVD110AVF	296-21573-ND	1-to-10 LVDS Clock Buffer	32-LQFP	9.35	8.42	7.47
CDCLVD110VF	296-13712-5-ND	Programmable Low Voltage 1:10 LVDS Clock Driver	32-LQFP	9.35	8.42	7.47
CDCLVP110VF	296-15357-ND	LV 1:10 LVPECL/HSTL with Selectable Input Clock Driver	32-LQFP	9.25	8.33	7.39
CDCM1802RGTT	296-17045-1-ND	Clock Buffer with Prog. Divider	16-QFN	8.30	6.64	5.61
CDCM1802RGTT	296-17045-2-ND	Clock Buffer with Programmable Divider	16-QFN	1348.75/250		
CDCM1804RGET	296-18094-1-ND	1:3 LVPECL Clock Buffer Plus Additional LVCMOS Output and Prog. Divider	24-QFN	10.08	9.08	8.05
CDCM1804RGET	296-18094-2-ND	1:3 LVPECL Clock Buffer Plus Additional LVCMOS Output and Prog. Divider	24-QFN	1928.50/250		
CDCM1804RTHT	296-17928-1-ND	1:3 LVPECL Clock Buffer Plus Additional LVCMOS Output and Prog. Divider	24-QFN	10.08	9.08	8.05
CDCM1804RTHT	296-17928-2-ND	1:3 LVPECL Clock Buffer Plus Additional LVCMOS Output and Prog. Divider	24-QFN	1928.50/250		
CDCM7005BGA-EVM	296-20835-ND	Evaluation Module for CDCM7005-BGA	—	203.00	—	—
CDCM7005QFN-EVM	296-20836-ND	Evaluation Module for CDCM7005-QFN	—	203.00	—	—
CDCM7005RGZT	296-18208-ND	3.3V High Performance Clock Synthesizer/Jitter Cleaner	48-QFN	15.68	14.63	13.59
CDCM7005ZVAT	296-18221-1-ND	3.3V High Performance Clock Synchronizer and Jitter Cleaner	64-BGA	15.68	14.63	13.59
CDCM7005ZVAT	296-18221-2-ND	3.3V High Performance Clock Synchronizer and Jitter Cleaner	64-BGA	3331.00/250		
CDCP1803RGET	296-18095-1-ND	1:3 LVPECL Clock Buffer with Programmable Divider	24-QFN	7.00	5.60	4.73
CDCP1803RGET	296-18095-2-ND	1:3 LVPECL Clock Buffer with Programmable Divider	24-QFN	1137.50/250		
CDCP1803RTHT	296-17880-1-ND	1:3 LVPECL Clock Buffer with Programmable Divider	24-QFN	7.00	5.60	4.73
CDCP1803RTHT	296-17880-2-ND	1:3 LVPECL Clock Buffer with Programmable Divider	24-QFN	1137.50/250		
CDCR61APW	296-14633-5-ND	Rambus™ Clock Generator	16-TSSOP	3.02	2.42	1.88
CDCR81DBQR	296-6720-1-ND	Direct Rambus™ Clock Generator	24-QSOP	4.43	3.55	2.76
CDCR81DBQR	296-6720-2-ND	Direct Rambus™ Clock Generator	24-QSOP	6205.00/2,500		
CDCR83ADBQ	296-18600-5-ND	400MHz Direct Rambus™ Clock Generator	24-QSOP	3.49	2.79	2.17
CDCR83DBQ	296-12165-5-ND	400MHz Direct Rambus™ Clock Generator	24-QSOP	3.74	2.99	2.33
CDCU2A877ZQLT	296-20718-1-ND	1.8V PLL Clock Driver	52-BGA	5.12	4.10	3.46
CDCU2A877ZQLT	296-20718-2-ND	1.8V PLL Clock Driver	52-BGA	832.00/250		
CDCU877AGQLT	296-16826-1-ND	1.8V PLL Clock Driver	52-BGA	5.12	4.10	3.46
CDCU877AGQLT	296-16826-2-ND	1.8V PLL Clock Driver	52-BGA	832.00/250		
CDCU877ARHAT	296-19539-1-ND	1.8V PLL Clock Driver	40-QFN	5.12	4.10	3.46
CDCU877ARHAT	296-19539-2-ND	1.8V PLL Clock Driver	40-QFN	832.00/250		
CDCU877ARTBT	296-16827-1-ND	1.8V PLL Clock Driver	40-QFN	5.12	4.10	3.46
CDCU877ARTBT	296-16827-2-ND	1.8V PLL Clock Driver	40-QFN	832.00/250		
CDCU877AZQLT	296-16828-1-ND	1.8V PLL Clock Driver	52-BGA	5.12	4.10	3.46
CDCU877AZQLT	296-16828-2-ND	1.8V PLL Clock Driver	52-BGA	832.00/250		
CDCU877BZQLT	296-18287-1-ND	1.8V PLL Clock Driver	52-BGA	5.12	4.10	3.46
CDCU877BZQLT	296-18287-2-ND	1.8V PLL Clock Driver	52-BGA	832.00/250		
CDCU877GQLT	296-16758-1-ND	1.8V PLL Clock Driver	52-BGA	5.12	4.10	3.46
CDCU877GQLT	296-16758-2-ND	1.8V PLL Clock Driver	52-BGA	832.00/250		
CDCU877RHAT	296-18645-1-ND	1.8V PLL Clock Driver	40-QFN	5.12	4.10	3.46
CDCU877RHAT	296-18645-2-ND	1.8V PLL Clock Driver	40-QFN	832.00/250		
CDCU877RTBT	296-16759-1-ND	1.8V PLL Clock Driver	40-QFN	5.12	4.10	3.46
CDCU877RTBT	296-16759-2-ND	1.8V PLL Clock Driver	40-QFN	832.00/250		
CDCU877ZQLT	296-16760-1-ND	1.8V PLL Clock Driver	52-BGA	5.12	4.10	3.46
CDCU877ZQLT	296-16760-2-ND	1.8V PLL Clock Driver	52-BGA	832.00/250		
CDCUA877ZQLT	296-20719-1-ND	1.8V PLL Clock Driver	52-BGA	5.62	4.50	3.80
CDCUA877ZQLT	296-20719-2-ND	1.8V PLL Clock Driver	52-BGA	913.25/250		
CDCV304PW	296-12420-5-ND	140MHz GP PCI-X Clock Buffer	8-TSSOP	2.20	1.76	1.32
CDCV850DGG	296-6721-5-ND	2.5V PLL Clock Driver	48-TSSOP	3.13	2.51	1.95
CDCV850DGGR	296-6721-1-ND	2.5V PLL Clock Driver	48-TSSOP	3.13	2.51	1.95
CDCV850DGGR	296-6721-2-ND	2.5V PLL Clock Driver	48-TSSOP	3544.00/2,000		
CDCV850IDGG	296-14164-5-ND	2.5V PLL Clock Driver with 2 Line Serial Interface	48-TSSOP	3.60	2.88	2.24
CDCV855IPW	296-14305-5-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	2.93	2.34	1.82
CDCV855PW	296-12200-5-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	2.59	2.07	1.61
CDCV855PWR	296-12200-1-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	2.59	2.07	1.61
CDCV855PWR	296-12200-2-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	2932.00/2,000		
CDCV857ADGG	296-11575-5-ND	2.5V PLL Clock Driver	48-TSSOP	5.02	4.02	3.13
CDCV857ADGGR	296-11575-1-ND	2.5V PLL Clock Driver	48-TSSOP	5.02	4.02	3.13
CDCV857ADGGR	296-11575-2-ND	2.5V PLL Clock Driver	48-TSSOP	5686.00/2,000		
CDCV857AGQLR	296-13775-1-ND	2.5V PLL Clock Driver	56-VFBGA	5.49	4.40	3.42
CDCV857AGQLR	296-13775-2-ND	2.5V PLL Clock Driver	56-VFBGA	3111.00/1,000		
CDCV857BDGG	296-14165-5-ND	2.5V PLL Clock Driver	48-TSSOP	5.62	4.50	3.80
CDCV857BGQLR	296-15358-1-ND	2.5V PLL Clock Driver	56-VFBGA	6.04	4.84	4.08
CDCV857BGQLR	296-15358-2-ND	2.5V PLL Clock Driver	56-VFBGA	3775.00/1,000		
CDCV857BIDGG	296-13857-5-ND	2.5V PLL Clock Driver	48-TSSOP	6.46	5.17	4.37
CDCV857DGGR	296-6722-1-ND	2.5V PLL Clock Driver	48-TSSOP	6.56	5.25	4.43
CDCV857DGGR	296-6722-2-ND	2.5V PLL Clock Driver	48-TSSOP	8200.00/2,000		
CDCVF111FN	296-12421-5-ND	1:9 Diff. LVPECL Clock Driver	28-PLCC	11.63	10.47	9.29
CDCVF310PW	296-17358-ND	2.5V-3.3V High-Perf. Clock Buffer	24-TSSOP	4.61	3.69	2.87
CDCVF855PW	296-21732-5-ND	2.5V PLL Clock Driver	28-TSSOP	2.93	2.34	1.82
CDCVF857DGG	296-16634-5-ND	2.5V PLL Clock Driver	48-TSSOP	5.62	4.50	3.80
CDCVF857GQLR	296-16989-1-ND	2.5V PLL Clock Driver	56-BGA	6.04	4.84	4.08
CDCVF857GQLR	296-16989-2-ND	2.5V PLL Clock Driver	56-BGA	3775.00/1,000		
CDCVF857RHAT	296-18288-1-ND	2.5V PLL Clock Driver	40-QFN	6.64	5.32	4.49
CDCVF857RHAT	296-18288-2-ND	2.5V PLL Clock Driver	40-QFN	1079.00/250		
CDCVF857RTBT	296-16635-1-ND	2.5V PLL Clock Driver	40-MLF	6.64	5.32	4.49
CDCVF857RTBT	296-16635-2-ND	2.5V PLL Clock Driver	40-MLF	1079.00/250		
CDCVF857ZQLR	296-21733-1-ND	2.5V PLL Clock Driver	56-BGA	6.04	4.84	4.08
CDCVF857ZQLR	296-21733-2-ND	2.5V PLL Clock Driver	56-BGA	3775.00/1,000		
CDCVF2310PW	296-12019-5-ND	2.5V-3.3V, 1:10 General Purpose High Power Clock Buffer	24-TSSOP	4.61	3.69	2.87
CDCVF2310PWR	296-12019-1-ND	2.5V-3.3V, 1:10 General Purpose High Power Clock Buffer	24-TSSOP	4.61	3.69	2.87
CDCVF2310PWR	296-12019-2-ND	2.5V-3.3V, 1:10 General Purpose High Power Clock Buffer	24-TSSOP	5228.00/2,000		
CDCVF2505D	296-6723-5-ND	3.3V PLL Clock Driver	8-SOIC	1.78	1.42	1.07
CDCVF2505PW	296-9437-5-ND	3.3V PLL Clock Driver	8-TSSOP	1.78	1.42	1.07
CDCVF2509APW	296-18406-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.55	3.64	2.83
CDCVF2509PW	296-13070-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.55	3.64	2.83
CDCVF2509PWR	296-6724-1-ND	3.3V PLL Clock Driver	24-TSSOP	4.55	3.64	2.83
CDCVF2509PWR	296-6724-2-ND	3.3V PLL Clock Driver	24-TSSOP	5152.00/2,000		
CDCVF2510APW	296-18407-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.55	3.64	2.83
CDCVF2510PW	296-6725-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.55	3.64	2.83
CDCVF2510PWR	296-6725-1-ND	3.3V PLL Clock Driver	24-TSSOP	4.55	3.64	2.83
CDCVF2510PWR	296-6725-2-ND	3.3V PLL Clock Driver	24-TSSOP	5152.00/2,000		
CDCVF25081D	296-12270-5-ND	3.3V, 1:8 PLL Clock Driver	16-SOIC	2.54	2.04	1.59
CDCVF25081DR	296-12270-1-ND	3.3V, 1:8 PLL Clock Driver	16-SOIC	2.54	2.04	1.59
CDCVF25081DR	296-12270-2-ND	3.3V, 1:8 PLL Clock Driver	16-SOIC	3560.00/2,500		
CDCVF25081PW	296-12271-5-ND	3.3V, 1:8 PLL Clock Driver	16-TSSOP	2.54	2.04	1.59
CDCVF25081PWR	296-12271-1-ND	3.3V, 1:8 PLL Clock Driver	16-TSSOP	2.54	2.04	1.59
CDCVF25081PWR	296-12271-2-ND	3.3V, 1:8 PLL Clock Driver	16-TSSOP	2882.00/2,000		
CDCVF25084PW	296-15081-5-ND	3.3V, 1:8 Zero Delay (PLL)x4 Clock Multiplier	16-TSSOP	5.49	4.40	3.42
PLL1700E	PLL1700E-ND	Audio System Multiclock Generator (PLL)	20-SSOP	4.59	3.68	2.86
PLL1705DBQ	296-13605-5-ND	3.3V Dual PLL Multiclock Generator	20-QSOP	2.93	2.34	1.82
PLL1706DBQ	296-13606-5-ND	3.3V Dual PLL Multiclock Generator	20-QSOP	2.93	2.34	1.82
PLL1707DBQ	296-14182-5-ND	3.3V Dual PLL Multiclock Generator	20-QSOP	3.15	2.52	1.96
PLL1708DBQ	296-14183-5-ND	3.3V Dual PLL Multiclock Generator	20-QSOP	3.15	2.52	1.96
TB5D1MD	296-15747-5-ND	Quad Differential PECL Driver	16-SOIC	12.00	10.80	9.58
TB5D1MDW	296-15748-5-ND	Quad Differential PECL Driver	16-SOIC	12.00	10.80	9.58
TB5D2HD	296-15749-5-ND	Quad Differential PECL Driver	16-SOIC	12.00	10.80	9.58
TB5D2HDW	296-15750-5-ND	Quad Differential PECL Driver	16-SOIC	12.00	10.80	9.58
TB5R3D	296-19322-5-ND	Quad Diff. PECL Receiver	16-SOIC	14.41	12.98	11.51
TB5R3DW	296-19323-5-ND	Quad Diff. PECL Receiver	16-SOIC	14.41	12.98	11.51

I^2C

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA9306DCTR	296-18509-1-ND	Dual Bidirectional I^2C Bus and SMBus Voltage Level Translator	8-SSOP	.75	.63	.50
PCA9306DCTR	296-18509-2-ND	Dual Bidirectional I^2C Bus and SMBus Voltage Level Translator	8-SSOP	975.00/3,000		
PCA9306DCUR	296-17988-1-ND	Dual Bidirectional I^2C Bus and SMBus Voltage Level Translator	8-VSSOP	.75	.63	.50

(Continued)

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BUS SOLUTIONS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCA9306DCUR	296-17988-2-ND	Dual Bidirectional I^2C Bus and SMBus Voltage Level Translator	8-VSSOP	975.00/3,000		
PCA9515ADGKR	296-20646-1-ND	Dual Bidirectional I^2C Bus and SMBus Repeater	8-VSSOP	2.25	1.80	1.35
PCA9515ADGKR	296-20646-2-ND	Dual Bidirectional I^2C Bus and SMBus Repeater	8-VSSOP	2880.00/2,500		
PCA9515ADR	296-20945-1-ND	Dual Bidirectional I^2C Bus and SMBus Repeater	8-SOIC	2.25	1.80	1.35
PCA9515ADR	296-20945-2-ND	Dual Bidirectional I^2C Bus and SMBus Repeater	8-SOIC	2880.00/2,500		
PCA9515APWR	296-20946-1-ND	Dual Bidirectional I^2C Bus and SMBus Repeater	8-TSSOP	2.25	1.80	1.35
PCA9515APWR	296-20946-2-ND	Dual Bidirectional I^2C Bus and SMBus Repeater	8-TSSOP	2340.00/2,000		
PCA9518DBQR	296-22764-1-ND	Expandable 5-Ch. I^2C Hub ***NEW!***	20-QSOP	2.00	1.60	1.20
PCA9518DBQR	296-22764-2-ND	Expandable 5-Ch. I^2C Hub ***NEW!***	20-QSOP	2560.00/2,500		
PCA9518DBR	296-22765-1-ND	Expandable 5-Ch. I^2C Hub ***NEW!***	20-SSOP	2.00	1.60	1.20
PCA9518DBR	296-22765-2-ND	Expandable 5-Ch. I^2C Hub ***NEW!***	20-SSOP	2080.00/2,000		
PCA9518DWR	296-22766-1-ND	Expandable 5-Ch. I^2C Hub ***NEW!***	20-SOIC	2.00	1.60	1.20
PCA9518DWR	296-22766-2-ND	Expandable 5-Ch. I^2C Hub ***NEW!***	20-SOIC	2080.00/2,000		
PCA9518PWR	296-22767-1-ND	Expandable 5-Ch. I^2C Hub ***NEW!***	20-TSSOP	2.00	1.60	1.20
PCA9518PWR	296-22767-2-ND	Expandable 5-Ch. I^2C Hub ***NEW!***	20-TSSOP	2080.00/2,000		
PCA9543ADR	296-22769-1-ND	2-Channel I^2C Bus Switch ***NEW!***	14-SOIC	1.88	1.50	1.13
PCA9543ADR	296-22769-2-ND	2-Channel I^2C Bus Switch ***NEW!***	14-SOIC	2400.00/2,500		
PCA9543APWR	296-22770-1-ND	2-Channel I^2C Bus Switch ***NEW!***	14-TSSOP	1.88	1.50	1.13
PCA9543APWR	296-22770-2-ND	2-Channel I^2C Bus Switch ***NEW!***	14-TSSOP	1950.00/2,000		
PCA9544ADGVR	296-20957-1-ND	4-Channel I^2C and SMBus Mux	20-TVSOP	2.18	1.74	1.31
PCA9544ADGVR	296-20957-2-ND	4-Channel I^2C and SMBus Mux	20-TVSOP	2262.00/2,000		
PCA9544ADWR	296-20958-1-ND	4-Channel I^2C and SMBus Mux	20-SOIC	2.18	1.74	1.31
PCA9544ADWR	296-20958-2-ND	4-Channel I^2C and SMBus Mux	20-SOIC	2262.00/2,000		
PCA9544APWR	296-20959-1-ND	4-Channel I^2C and SMBus Mux	20-TSSOP	2.18	1.74	1.31
PCA9544APWR	296-20959-2-ND	4-Channel I^2C and SMBus Mux	20-TSSOP	2262.00/2,000		
PCA9544ARGYR	296-20960-1-ND	4-Channel I^2C and SMBus Mux	20-QFN	2.18	1.74	1.31
PCA9544ARGYR	296-20960-2-ND	4-Channel I^2C and SMBus Mux	20-QFN	1131.00/1,000		
PCA9544AZQNR	296-20961-1-ND	4-Channel I^2C and SMBus Mux	20-VFBGA	2.18	1.74	1.31
PCA9544AZQNR	296-20961-2-ND	4-Channel I^2C and SMBus Mux	20-VFBGA	1131.00/1,000		
PCA9545ADGVR	296-20962-1-ND	4-Channel I^2C and SMBus Switch	20-TVSOP	2.25	1.80	1.35
PCA9545ADGVR	296-20962-2-ND	4-Channel I^2C and SMBus Switch	20-TVSOP	2340.00/2,000		
PCA9545ADWR	296-19680-1-ND	4-Channel I^2C and SMBus Switch	20-SOIC	2.25	1.80	1.35
PCA9545ADWR	296-19680-2-ND	4-Channel I^2C and SMBus Switch	20-SOIC	2340.00/2,000		
PCA9545APWR	296-20963-1-ND	4-Channel I^2C and SMBus Switch	20-TSSOP	2.25	1.80	1.35
PCA9545APWR	296-20963-2-ND	4-Channel I^2C and SMBus Switch	20-TSSOP	2340.00/2,000		
PCA9545ARGYR	296-20964-1-ND	4-Channel I^2C and SMBus Switch	20-QFN	2.25	1.80	1.35
PCA9545ARGYR	296-20964-2-ND	4-Channel I^2C and SMBus Switch	20-QFN	1170.00/1,000		
PCA9545AZQNR	296-20965-1-ND	4-Channel I^2C and SMBus Switch	20-VFBGA	2.25	1.80	1.35
PCA9545AZQNR	296-20965-2-ND	4-Channel I^2C and SMBus Switch	20-VFBGA	1170.00/1,000		
PCA9546ADGVR	296-20966-1-ND	4-Channel I^2C and SMBus Switch	16-TVSOP	1.93	1.54	1.16
PCA9546ADGVR	296-20966-2-ND	4-Channel I^2C and SMBus Switch	16-TVSOP	2002.00/2,000		
PCA9546ADR	296-21770-1-ND	4-Channel I^2C and SMBus Switch	16-SOIC	1.93	1.54	1.16
PCA9546ADR	296-21770-2-ND	4-Channel I^2C and SMBus Switch	16-SOIC	2465.00/2,500		
PCA9546ADWR	296-20967-1-ND	4-Channel I^2C and SMBus Switch	16-SOIC	1.93	1.54	1.16
PCA9546ADWR	296-20967-2-ND	4-Channel I^2C and SMBus Switch	16-SOIC	2002.00/2,000		
PCA9546APWR	296-20968-1-ND	4-Channel I^2C and SMBus Switch	16-TSSOP	1.93	1.54	1.16
PCA9546APWR	296-20968-2-ND	4-Channel I^2C and SMBus Switch	16-TSSOP	2002.00/2,000		
PCA9546ARGVR	296-21771-1-ND	4-Channel I^2C and SMBus Switch	16-QFN	1.93	1.54	1.16
PCA9546ARGVR	296-21771-2-ND	4-Channel I^2C and SMBus Switch	16-QFN	2465.00/2,500		
PCA9546ARGYR	296-20969-1-ND	4-Channel I^2C and SMBus Switch	16-QFN	1.93	1.54	1.16
PCA9546ARGYR	296-20969-2-ND	4-Channel I^2C and SMBus Switch	16-QFN	1001.00/1,000		
PCA9548ADBR	296-21772-1-ND	8-Channel I^2C Switch	24-SSOP	2.41	1.93	1.50
PCA9548ADBR	296-21772-2-ND	8-Channel I^2C Switch	24-SSOP	2728.00/2,000		
PCA9548ADGVR	296-21773-1-ND	8-Channel I^2C Switch	24-TVSOP	2.41	1.93	1.50
PCA9548ADGVR	296-21773-2-ND	8-Channel I^2C Switch	24-TVSOP	2728.00/2,000		
PCA9548ADWR	296-21774-1-ND	8-Channel I^2C Switch	24-SOIC	2.41	1.93	1.50
PCA9548ADWR	296-21774-2-ND	8-Channel I^2C Switch	24-SOIC	2728.00/2,000		
PCA9548APWR	296-21775-1-ND	8-Channel I^2C Switch	24-TSSOP	2.41	1.93	1.50
PCA9548APWR	296-21775-2-ND	8-Channel I^2C Switch	24-TSSOP	2728.00/2,000		
PCA9548ARGER	296-21776-1-ND	8-Channel I^2C Switch	24-QFN	2.41	1.93	1.50
PCA9548ARGER	296-21776-2-ND	8-Channel I^2C Switch	24-QFN	4044.00/3,000		
TCA6507PWR	296-22777-1-ND	7-Bit I^2C/SMBus LED Driver ***NEW!***	14-TSSOP	1.73	1.38	1.04
TCA6507PWR	296-22777-2-ND	7-Bit I^2C/SMBus LED Driver ***NEW!***	14-TSSOP	1794.00/2,000		
TCA6507RUER	296-23111-1-ND	7-Bit I^2C/SMBus LED Driver ***NEW!***	12-QFN	1.75	1.40	1.05
TCA6507RUER	296-23111-2-ND	7-Bit I^2C/SMBus LED Driver ***NEW!***	12-QFN	2688.00/3,000		
TCA6507ZXUR	296-22778-1-ND	7-Bit I^2C/SMBus LED Driver ***NEW!***	12-BGA	1.75	1.40	1.05
TCA6507ZXUR	296-22778-2-ND	7-Bit I^2C/SMBus LED Driver ***NEW!***	12-BGA	2240.00/2,500		

IEEE 1394

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TSB12LV01BIPZTEP	296-18175-ND	IEEE 1394-1995 High Speed, Serial Bus Link Layer Controller	100-PQFP	17.87	16.68	15.49
TSB12LV01BPZT	296-11062-ND	High Performance Link Layer	100-TQFP	14.88	13.40	11.88
TSB12LV26PZT	296-11065-ND	Open Host Controller	100-TQFP	7.96	6.37	5.38
TSB12LV32IPZ	296-11066-ND	General Purpose IEEE 1394a-2000 Link Layer Controller	100-LQFP	9.55	8.60	7.63
TSB12LV32TPZEP	296-18177-ND	General Purpose IEEE 1394a-2000 Link Layer Controller ***NEW!***	100-LQFP	15.27	14.26	13.24
TSB12LV32PZ	296-11067-ND	General Purp. Link Layer Controller	100-LQFP	8.61	7.76	6.88
TSB14AA1AIPFB	296-15048-ND	3.3V IEEE 1394-1995 Backplane PHY	48-TQFP	12.18	10.97	9.73
TSB14AA1APFB	296-14214-5-ND	3.3V IEEE 1394-1995 Backplane PHY	48-TQFP	8.41	7.58	6.72
TSB14AA1TPFB	296-13421-ND	3.3V IEEE 1394-1995 Backplane PHY	48-TQFP	10.83	9.75	8.65
TSB15LV01IPFC	296-15678-ND	High Performance Link Layer	80-TQFP	9.06	7.25	6.12
TSB41AB1GQE	296-15735-ND	One-Port Cable Transceiver/Arbiter	80-VFBGA	3.38	2.70	2.10
TSB41AB1PAP	296-11074-ND	One-Port Cable Transceiver/Arbiter	64-HTQFP	3.38	2.70	2.10
TSB41AB1PHP	296-11075-ND	One-Port Cable Transceiver/Arbiter	48-HTQFP	3.38	2.70	2.10
TSB41AB1ZQE-64	296-19564-ND	IEEE 1394a-2000 One-Port Cable Transceiver/Arbiter	64-BGA	3.38	2.70	2.10
TSB41AB2P AP	296-11076-ND	Two-Port Cable Transceiver/Arbiter	64-HTQFP	4.16	3.33	2.59
TSB41AB3IPFP	296-13422-ND	IEEE 1394a-2000 Three-Port Cable Transceiver/Arbiter	80-HTQFP	6.60	5.28	4.46
TSB41AB3IPFPEP	296-22528-ND	IEEE 1394a-2000 Three-Port Cable Transceiver/Arbiter ***NEW!***	80-HTQFP	6.12	4.90	4.14
TSB41AB3PFP	296-11077-ND	IEEE 1394a-2000 Three-Port Cable Transceiver/Arbiter	80-HTQFP	6.00	4.80	4.05
TSB41BA3ATPFPEP	296-18178-ND	IEEE 1394b Three-Port Cable Transceiver/Arbiter	80-HTQFP	17.45	16.29	15.12
TSB41BA3BPFP	296-19370-ND	IEEE 1394b Three-Port Cable Transceiver/Arbiter	80-HTQFP	10.83	9.75	8.65
TSB41BA3BTPFPEP	296-22529-ND	IEEE 1394b Three-Port Cable Transceiver/Arbiter ***NEW!***	80-HTQFP	16.46	14.82	13.15
TSB41LV04APFP	296-11078-ND	Four-Port Cable Transceiver/Arbiter	80-HTQFP	10.83	9.75	8.65
TSB41LV06APZP	296-11079-ND	Six-Port Cable Transceiver/Arbiter	100-HTQFP	10.66	9.60	8.52
TSB42AC3PZT	296-16848-ND	1394 Link Layer Controller	100-TQFP	10.83	9.75	8.65
TSB43AA82AIPGEEP	296-22610-ND	1394 Integrated PHY and Link-Layer Controller ***NEW!***	144-LQFP	16.67	15.56	14.45
TSB43AB21AIPDTEP	296-18179-ND	Integrated 1394a-2000 OHCI PHY/Link-Layer Controller	128-TQFP	8.20	6.56	5.54
TSB43AB21APDT	296-12698-ND	Phy/Link-Layer Controller	128-TQFP	6.84	5.48	4.62
TSB43AB22APDT	296-12569-ND	1394a Link Layer Controller	128-TQFP	6.50	5.20	4.39
TSB43AB23IPDTEP	296-19531-ND	Integrated 1394a-2000 OHCI PHY/Link Layer Controller	128-TQFP	9.70	7.76	6.55
TSB43AB23PDT	296-12408-ND	IEEE-1394 Controller	128-TQFP	8.08	6.47	5.46
TSB43AB23PDTG4	296-18073-ND	IEEE 1394a-2000 OHCI PHY/Link Layer Controller	128-TQFP	8.08	6.47	5.46
TSB43AB23PGE	296-14328-ND	OHCI Phy/Link Layer Controller	144-LQFP	8.08	6.47	5.46
TSB43CB43APGF	296-14329-ND	iceLynx-Micro™ with Streaming Audio	176-LQFP	16.24	14.63	12.97
TSB81BA3DPFP	296-19901-ND	IEEE 1394b Three-Port Cable Transceiver/Arbiter	80-HTQFP	9.25	8.33	7.39
TSB81BA3IPFPEP	296-22530-ND	IEEE 1394b Three-Port Cable Transceiver/Arbiter ***NEW!***	80-HTQFP	16.33	14.70	13.04
TSB81BA3PFP	296-14215-5-ND	IEEE 1394b Three-Port Cable Transceiver/Arbiter	80-HTQFP	9.25	8.33	7.39
TSB82AA2IPGEEP	296-18180-ND	OHCI-Lynx 1394b Link Layer Controller	144-LQFP	14.81	13.34	11.83
TSB82AA2PGE	296-14445-ND	OHCI-Lynx 1394b Link Layer Controller	144-LQFP	11.11	10.01	8.88
TSB83AA23ZAY	296-22860-ND	IEEE Std 1394b-2002 PHY and OHCI Link Device ***NEW!***	167-NFBGA	12.83	11.55	10.25

PCI

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCI1510GGU	296-12730-ND	Single Slot CardBus Controller	144-BGA	6.16	4.93	4.16
PCI1510PGE	296-12731-ND	Single Slot CardBus Controller	144-LQFP	6.16	4.93	4.16
PCI1510ZGU	296-15728-ND	Single Slot CardBus Controller	144-PBGA	6.16	4.93	4.16
PCI1520GHK	296-12279-5-ND	PCI-to-CardBus Controller	209-BGA	7.44	5.96	5.03
PCI1520IGHK	296-16944-ND	PCI-to-CardBus Controller	208-BGA	8.20	6.56	5.54
PCI1520IGHKEP	296-22194-ND	PCI-to-CardBus Controller ***NEW!***	209-BGA	9.11	8.21	7.28
PCI1520IPDV	296-16945-ND	PCI-to-CardBus Controller	208-LQFP	8.20	6.56	5.54
PCI1520IPDVEP	296-19772-ND	PCI-to-CardBus Controller	208-LQFP	9.11	8.21	7.28
PCI1520PDV	296-12280-5-ND	PCI-to-CardBus Controller	208-LQFP	7.44	5.96	5.03
PCI1520ZHK	296-16918-ND	PCI-to-CardBus Controller	209-BGA	7.44	5.96	5.03
PCI2040GGU	296-9633-5-ND	PCI-to-DSP Bridge Controller	144-BGA	15.83	14.77	13.72
PCI2040PGE	296-9634-ND	PCI-to-DSP Bridge Controller	144-LQFP	15.83	14.77	13.72
PCI2050BGHK	296-15213-ND	32-Bit, 66MHz PCI-to-PCI Bridge	257-BGA	15.83	14.25	12.64
PCI2050BPDV	296-14347-ND	32-Bit, 66MHz PCI-to-PCI Bridge	208-LQFP	15.83	14.25	12.64
PCI2050BPPM	296-15344-ND	32-Bit, 66MHz PCI-to-PCI Bridge	208-QFP	15.83	14.25	12.64
PCI2050BZHK	296-21638-ND	32-Bit, 66MHz PCI-to-PCI Bridge	257-BGA	15.83	14.25	12.64
PCI2060ZHK	296-19316-ND	PCI-to-PCI Bridge	257-PBGA	15.83	14.25	12.64
PCI2250PCM	296-9639-ND	32-Bit, 33MHz PCI-to-PCI Bridge	160-QFP	10.16	9.15	8.12
PCI2250PGF	296-9640-ND	32-Bit, 33MHz PCI-to-PCI Bridge	176-LQFP	10.16	9.15	8.12
PCI4510AZHK	296-17169-ND	PC Card and Integrated 1394a-2000 OHCI 2-Port PHY/Link-Layer Controller	209-PBGA	11.40	10.26	9.10
PCI7621GHK	296-17307-ND	Six-Function PCI Controller	288-BGA	19.25	17.97	16.68
PCI7621ZHK	296-17308-ND	Six-Function PCI Controller	288-PBGA	19.25	17.97	16.68
TS2PCIE2212ZAHR	296-20668-1-ND	PCI-Express™ Signal Switch	48-BGA	3.44	2.76	2.15
TS2PCIE2212ZAHR	296-20668-2-ND	PCI-Express™ Signal Switch	48-BGA	5784.00/3,000		
XIO1100GGB	296-20664-ND	X1 PCI-Express™ PHY	100-BGA	11.66	10.50	9.31
XIO1100ZGB	296-20665-ND	X1 PCI-Express™ PHY	100-BGA	11.66	10.50	9.31
XIO2000AGZZ	296-21213-ND	PCI-Express™ to PCI/PCI-X Bridge	201-PBGA	14.99	13.50	11.97
XIO2000AZHH	296-21526-ND	PCI-Express™ to PCI/PCI-X Bridge	175-PBGA	14.99	13.50	11.97
XIO2000AZZZ	296-19569-ND	PCI-Express™ to PCI/PCI-X Bridge	201-PBGA	14.99	13.50	11.97
XIO2000GZZ	296-18641-ND	PCI-Express™ Bridge	201-PBGA	22.43	20.93	19.44
XIO2000ZZZ	296-18642-ND	PCI-Express™ Bridge	201-PBGA	22.43	20.93	19.44
XIO2200AGGW	296-19617-ND	PCI-Express™ to PCI-Translation Bridge	176-BGA	12.50	11.25	9.98
XIO2200AZGW	296-19567-ND	PCI-Express™ to PCI-Translation Bridge	176-BGA	12.50	11.25	9.98
XIO2200AZHH	296-21636-ND	PCI-Express™ to PCI-Translation Bridge	175-BGA	12.50	11.25	9.98
XIO2200ZGW	296-19486-ND	PCI-Express™ to PCI-Translation Bridge	176-BGA	22.58	21.07	19.57

PECL

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TB3R1D	296-15945-5-ND	Quad Differential PECL Receiver	16-SOIC	14.41	12.98	11.51
TB3R2D	296-15946-5-ND	Quad Differential PECL Receiver	16-SOIC	14.41	12.98	11.51
TB5R1D	296-15947-5-ND	Quad Differential PECL Receiver	16-SOIC	12.00	10.80	9.58
TB5R1DW	296-15948-5-ND	Quad Differential PECL Receiver	16-SOIC	12.00	10.80	9.58
TB5R1LDW	296-17535-5-ND	Quad Differential PECL Receiver	16-SOIC	12.00	10.80	9.58
TB5R2D	296-15949-5-ND	Quad Differential PECL Receiver	16-SOIC	12.00	10.80	9.58
TB5R2DW	296-15950-5-ND	Quad Differential PECL Receiver	16-SOIC	12.00	10.80	9.58
TB5T1D	296-16689-5-ND	Dual Diff. PECL Driver/Receiver	16-SOIC	12.00	10.80	9.58
TB5T1DW	296-16690-5-ND	Dual Diff. PECL Driver/Receiver	16-SOIC	12.00	10.80	9.58

CCD

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLV990-13PFB	296-10737-ND	10-Bit, 13Msps CCD Signal Processor/Digitizer	48-TQFP	5.90	4.72	3.99
TLV990-21PFB	296-10738-ND	10-Bit, 21Msps CCD Analog Front End	48-TQFP	5.06	4.05	3.15
TLV990-28PFB	296-10739-ND	10-Bit, 28Msps CCD Analog Front End	48-TQFP	6.90	5.52	4.66
TLV990-40PFB	296-10740-ND	10-Bit, 40Msps CCD Analog Front End	48-TQFP	7.60	6.08	5.13
TSC2000IPW	TSC2000IPW-ND	Prog. Touch Screen Controller	20-TSSOP	5.29	4.23	3.29
VSP10T21PFB	296-12701-ND	Video Signal Processor/Digitizer	48-TQFP	7.20	5.76	4.86
VSP1221PFB	296-12296-ND	LP CCD Signal Processor	48-TQFP	7.50	6.00	5.07
VSP1900DBT	296-15068-5-ND	CCD Vertical Driver for Digital Cameras	30-TSSOP	8.75	7.88	6.99
VSP2210Y	VSP2210Y-ND	10-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	14.16	12.75	11.31
VSP2212Y	VSP2212Y-ND	12-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	15.98	14.91	13.85

(Continued)

TEXAS INSTRUMENTS CCD (Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
VSP2230Y	VSP2230Y-ND	10-Bit Digital Camera CCD Signal Processor	48-LQFP	15.23	14.21	13.20
VSP2232Y	VSP2232Y-ND	12-Bit Digital Camera CCD Signal Processor	48-LQFP	18.38	17.15	15.93
VSP2254GSJ	296-14396-ND	36MHz, 2-Ch. CCD Processor	96-BGA	18.90	17.64	16.38
VSP2260Y	VSP2260Y-ND	10-Bit, 27MHz, Digital Camera CCD Signal Processor	48-LQFP	9.60	7.68	6.48
VSP2260Y/2K	VSP2260YTR-ND	10-Bit, 27MHz, Digital Camera CCD Signal Processor	48-LQFP	12000.00/2,000		
VSP2262Y	VSP2262Y-ND	12-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	15.83	14.77	13.72
VSP2262Y/2K	VSP2262YTR-ND	12-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	26058.00/2,000		
VSP2270Y	296-12541-ND	28MHz CCD Signal Processor	48-LQFP	11.66	10.50	9.31
VSP2272Y	296-12542-ND	28MHz CCD Signal Processor	48-LQFP	15.16	13.65	12.11
VSP3010Y	VSP3010Y-ND	12-Bit, CCD/CIS Controller	48-LQFP	10.25	9.23	8.18
VSP3100Y	VSP3100Y-ND	14-Bit, 10MHz CCD/CIS Signal Processor	48-LQFP	8.91	8.03	7.12
VSP3200Y	VSP3200Y-ND	16-Bit, CCD/CIS Processor	48-LQFP	10.66	9.60	8.52
VSP3200Y/2K	VSP3200YTR-ND	16-Bit, CCD/CIS Processor	48-LQFP	15808.00/2,000		
VSP3210Y	VSP3210Y-ND	16-Bit, CCD/CIS Processor	48-LQFP	10.66	9.60	8.52
VSP3210Y2/K	VSP3210YTR-ND	16-Bit, CCD/CIS Processor	48-LQFP	15808.00/2,000		
VSP5000PM	296-14235-5-ND	12-Bit, 30MHz CCD Signal Front End	64-LQFP	15.75	14.70	13.65

TEXAS INSTRUMENTS Digi-Reel® COMPARATORS

General Purpose Comparators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
L293DNE	296-9518-5-ND	Quad Half-H Drivers	16-Dip	1.93	1.54	1.16
L293NE	296-9519-5-ND	Quad Half-H Drivers	16-Dip	2.75	2.20	1.71
LM139DG4	296-22032-5-ND	Quad Diff. Comparator **NEW!**	14-SOIC	1.14	.95	.76
LM239AMDREP	296-22874-1-ND	Quad Diff. Comparator **NEW!**	14-SOIC	1.08	.90	.72
LM239AMDREP	296-22874-2-ND	Quad Diff. Comparator **NEW!**	14-SOIC	1170.00/2,500		
LM239DR	296-14590-1-ND	Quad Differential Comparator	14-SOIC	.47	.38	.26
LM239DR	296-14590-2-ND	Quad Differential Comparator	14-SOIC	305.00/2,500		
LM293AD	296-9530-5-ND	Dual Differential Comparator	8-SOIC	.48	.36	.27
LM293D	296-9531-5-ND	Dual Differential Comparator	8-SOIC	.55	.44	.33
LM293DR	296-12848-1-ND	Dual Differential Comparator	8-SOIC	.43	.35	.24
LM293DR	296-12848-2-ND	Dual Differential Comparator	8-SOIC	280.00/2,500		
LM293P	296-9532-5-ND	Dual Differential Comparator	8-Dip	.43	.35	.24
LM339AD	296-6604-5-ND	Quad Differential Comparator	14-SOIC	.47	.38	.26
LM339ADR	296-6604-1-ND	Quad Differential Comparator	14-SOIC	.47	.38	.26
LM339ADR	296-6604-2-ND	Quad Differential Comparator	14-SOIC	305.00/2,500		
LM339AN	296-6605-5-ND	Quad Differential Comparator	14-Dip	.42	.34	.25
LM339APWR	296-18454-1-ND	Quad Differential Comparator	14-TSSOP	.50	.40	.30
LM339APWR	296-18454-2-ND	Quad Differential Comparator	14-TSSOP	280.00/2,000		
LM339D	296-1013-5-ND	Quad Differential Comparator	14-SOIC	.43	.35	.24
LM339DR	296-1013-1-ND	Quad Differential Comparator	14-SOIC	.43	.35	.24
LM339DR	296-1013-2-ND	Quad Differential Comparator	14-SOIC	280.00/2,500		
LM339DBR	296-6606-1-ND	Quad Differential Comparator	14-SSOP	.45	.36	.27
LM339DBR	296-6606-2-ND	Quad Differential Comparator	14-SSOP	252.00/2,000		
LM339N	296-1393-5-ND	Quad Differential Comparator	14-Dip	.45	.37	.25
LM339PWR	296-6607-1-ND	Quad Diff. Comparator, A Grade	14-TSSOP	.47	.38	.26
LM339PWR	296-6607-2-ND	Quad Diff. Comparator, A Grade	14-TSSOP	260.00/2,000		
LM393AD	296-6608-5-ND	Dual Diff. Comparator, A Grade	8-SOIC	.45	.37	.25
LM393ADGKR	296-16807-1-ND	Dual Diff. Comparator, A Grade	8-MSOP	.50	.40	.30
LM393ADGKR	296-16807-2-ND	Dual Diff. Comparator, A Grade	8-MSOP	337.50/2,500		
LM393ADR	296-14605-1-ND	Dual Diff. Comparator, A Grade	8-SOIC	.45	.37	.25
LM393ADR	296-14605-2-ND	Dual Diff. Comparator, A Grade	8-SOIC	292.50/2,500		
LM393AP	296-6609-5-ND	Dual Diff. Comparator, A Grade	8-Dip	.47	.39	.27
LM393APWR	296-6610-1-ND	Dual Diff. Comparator, A Grade	8-TSSOP	.47	.39	.27
LM393APWR	296-6610-2-ND	Dual Diff. Comparator, A Grade	8-TSSOP	262.00/2,000		
LM393D	296-1015-5-ND	Dual Differential Comparator	8-SOIC	.42	.34	.24
LM393DGKR	296-16808-1-ND	Dual Differential Comparator	8-MSOP	.50	.40	.30
LM393DGKR	296-16808-2-ND	Dual Differential Comparator	8-MSOP	337.50/2,500		
LM393DR	296-1015-1-ND	Dual Differential Comparator	8-SOIC	.42	.34	.24
LM393DR	296-1015-2-ND	Dual Differential Comparator	8-SOIC	272.50/2,500		
LM393P	296-1398-5-ND	Dual Differential Comparator	8-Dip	.44	.36	.25
LM393PSR	296-9566-1-ND	Dual Differential Comparator	8-SOP	.45	.36	.27
LM393PSR	296-9566-2-ND	Dual Differential Comparator	8-SOP	252.00/2,000		
LM393PWR	296-14607-1-ND	Dual Differential Comparator	8-TSSOP	.50	.41	.28
LM393PWR	296-14607-2-ND	Dual Differential Comparator	8-TSSOP	278.00/2,000		
LM2901AVQDRQ1	296-18437-1-ND	Quad Differential Comparator	14-SOIC	.60	.45	.34
LM2901AVQDRQ1	296-18437-2-ND	Quad Differential Comparator	14-SOIC	487.50/2,500		
LM2901AVQPWR	296-21575-1-ND	Quad Differential Comparator	14-TSSOP	.52	.39	.30
LM2901AVQPWR	296-21575-2-ND	Quad Differential Comparator	14-TSSOP	346.00/2,000		
LM2901AVQPWRQ1	296-21741-1-ND	Quad Differential Comparator	14-TSSOP	.60	.45	.34
LM2901AVQPWRQ1	296-21741-2-ND	Quad Differential Comparator	14-TSSOP	400.00/2,000		
LM2901D	296-1385-5-ND	Quad Diff. Comparator, Ind. Temp.	14-SOIC	.47	.39	.27
LM2901DR	296-14593-1-ND	Quad Diff. Comparator, Ind. Temp.	14-SOIC	.47	.39	.27
LM2901DR	296-14593-2-ND	Quad Diff. Comparator, Ind. Temp.	14-SOIC	310.00/2,500		
LM2901N	296-1386-5-ND	Quad Diff. Comparator, Ind. Temp.	14-Dip	.51	.41	.29
LM2901PWR	296-6597-1-ND	Quad Diff. Comparator, Ind. Temp.	14-TSSOP	.47	.39	.27
LM2901PWR	296-6597-2-ND	Quad Diff. Comparator, Ind. Temp.	14-TSSOP	262.00/2,000		
LM2901QDRQ1	296-17157-1-ND	Quad Diff. Comparator, Ind. Temp	14-SOIC	.48	.36	.27
LM2901QDRQ1	296-17157-2-ND	Quad Diff. Comparator, Ind. Temp	14-SOIC	390.00/2,500		
LM2901QPWRQ1	296-18438-1-ND	Quad Differential Comparator	14-TSSOP	.48	.36	.27
LM2901QPWRQ1	296-18438-2-ND	Quad Differential Comparator	14-TSSOP	320.00/2,000		
LM2901VQPWRG4	296-22033-1-ND	Quad Diff. Comparator **NEW!**	14-TSSOP	.50	.38	.29
LM2901VQPWRG4	296-22033-2-ND	Quad Diff. Comparator **NEW!**	14-TSSOP	332.00/2,000		
LM2901VQPWRQ1	296-21229-1-ND	Quad Differential Comparator	14-TSSOP	.56	.42	.32
LM2901VQPWRQ1	296-21229-2-ND	Quad Differential Comparator	14-TSSOP	372.00/2,000		
LM2903AVQDRQ1	296-18444-1-ND	Dual Differential Comparator	8-SOIC	.60	.45	.34
LM2903AVQDRQ1	296-18444-2-ND	Dual Differential Comparator	8-SOIC	487.50/2,500		
LM2903AVQPWRQ1	296-17790-1-ND	Dual Differential Comparator	8-TSSOP	.60	.45	.34
LM2903AVQPWRQ1	296-17790-2-ND	Dual Differential Comparator	8-TSSOP	400.00/2,000		
LM2903D	296-1012-5-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	.40	.33	.22
LM2903DGKR	296-16806-1-ND	Dual Diff. Comparator, Ind. Temp.	8-MSOP	.50	.40	.30
LM2903DGKR	296-16806-2-ND	Dual Diff. Comparator, Ind. Temp.	8-MSOP	337.50/2,500		
LM2903DR	296-1012-1-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	.40	.33	.22
LM2903DR	296-1012-2-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	260.00/2,500		
LM2903P	296-6601-5-ND	Dual Diff. Comparator, Ind. Temp.	8-Dip	.43	.35	.24
LM2903PSR	296-17322-1-ND	Dual Diff. Comparator, Ind. Temp.	8-SOP	.50	.40	.30
LM2903PSR	296-17322-2-ND	Dual Diff. Comparator, Ind. Temp.	8-SOP	280.00/2,000		
LM2903PWR	296-6602-1-ND	Dual Diff. Comparator, Ind. Temp.	8-TSSOP	.43	.35	.24
LM2903PWR	296-6602-2-ND	Dual Diff. Comparator, Ind. Temp.	8-TSSOP	238.00/2,000		
LM2903QDRG4	296-22034-1-ND	Dual Diff. Comparator, Ind. Temp. **NEW!**	8-SOIC	.76	.57	.43
LM2903QDRG4	296-22034-2-ND	Dual Diff. Comparator, Ind. Temp. **NEW!**	8-SOIC	617.50/2,500		
LM2903QDRQ1	296-15183-1-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	.48	.36	.27
LM2903QDRQ1	296-15183-2-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	390.00/2,500		
LM2903QPWRQ1	296-16942-1-ND	Dual Differential Comparator	8-TSSOP	.48	.36	.27
LM2903QPWRQ1	296-16942-2-ND	Dual Differential Comparator	8-TSSOP	320.00/2,000		
LM2903VQDRQ1	296-19541-1-ND	Dual Differential Comparator	8-SOIC	.56	.42	.32
LM2903VQDRQ1	296-19541-2-ND	Dual Differential Comparator	8-SOIC	455.00/2,500		
LM3302D	296-9546-5-ND	Quad Differential Comparator	14-SOIC	.80	.60	.45
LM3302DR	296-14598-1-ND	Quad Differential Comparator	14-SOIC	.80	.60	.45
LM3302DR	296-14598-2-ND	Quad Differential Comparator	14-SOIC	650.00/2,500		
LM3302N	296-17223-5-ND	Quad Differential Comparator	14-Dip	.53	.40	.30
LMV339IDR	296-6611-1-ND	Quad Low Voltage Comparator	14-SOIC	.96	.72	.54
LMV339IDR	296-6611-2-ND	Quad Low Voltage Comparator	14-SOIC	780.00/2,500		
LMV339IPWR	296-6612-1-ND	Quad Low Voltage Comparator	14-TSSOP	.96	.72	.54
LMV339IPWR	296-6612-2-ND	Quad Low Voltage Comparator	14-TSSOP	638.00/2,000		
TL331IDBVR	296-10168-1-ND	Single Differential Comparator	SOT-23-5	.50	.40	.30
TL331IDBVR	296-10168-2-ND	Single Differential Comparator	SOT-23-5	405.00/3,000		
TLC372CD	296-1327-5-ND	Dual Differential Comparator	8-SOIC	.81	.68	.54
TLC372CDR	296-1327-1-ND	Dual Differential Comparator	8-SOIC	.81	.68	.54
TLC372CDR	296-1327-2-ND	Dual Differential Comparator	8-SOIC	877.50/2,500		
TLC372CP	296-1845-5-ND	Dual Differential Comparator	8-Dip	.81	.68	.54
TLC372CPWR	296-10309-1-ND	Dual Differential Comparator	8-TSSOP	.81	.68	.54
TLC372CPWR	296-10309-2-ND	Dual Differential Comparator	8-TSSOP	718.00/2,000		
TLC372ID	296-10310-5-ND	Dual Differential Comparator	8-SOIC	.90	.75	.60
TLC372IP	296-1846-5-ND	Dual Differential Comparator	8-Dip	.90	.75	.60
TLC372MD	296-10311-5-ND	Dual Differential Comparator	8-SOIC	1.05	.88	.70
TLC372MDREP	296-22414-1-ND	Dual Differential Comparator **NEW!**	8-SOIC	2.90	2.33	1.81
TLC372MDREP	296-22414-2-ND	Dual Differential Comparator **NEW!**	8-SOIC	4062.50/2,500		
TLC372QD	296-10312-5-ND	Dual Differential Comparator	8-SOIC	.93	.78	.62
TLC372QDRG4	296-22049-1-ND	Dual Diff. Comparator **NEW!**	8-SOIC	.93	.78	.62
TLC372QDRG4	296-22049-2-ND	Dual Diff. Comparator **NEW!**	8-SOIC	1007.50/2,500		
TLC374CN	296-10313-5-ND	Quad Differential Comparator	14-Dip	1.02	.85	.68
TLC374CPWR	296-10314-1-ND	Quad Differential Comparator	14-TSSOP	1.02	.85	.68
TLC374CPWR	296-10314-2-ND	Quad Differential Comparator	14-TSSOP	904.00/2,000		
TLC374ID	296-10315-5-ND	Quad Differential Comparator	14-SOIC	1.11	.93	.74
TLC374IN	296-10316-5-ND	Quad Differential Comparator	14-Dip	1.11	.93	.74
TLC374MD	296-10317-5-ND	Quad Differential Comparator	14-SOIC	1.38	1.15	.92
TLV7211AIDBVR	296-21866-1-ND	CMOS Comparator	SOT-23-5	1.20	1.00	.80
TLV7211AIDBVR	296-21866-2-ND	CMOS Comparator	SOT-23-5	1560.00/3,000		
TLV7211AIDCKR	296-21867-1-ND	CMOS Comparator	SC70-6	1.20	1.00	.80
TLV7211AIDCKR	296-21867-2-ND	CMOS Comparator	SC70-6	1560.00/3,000		
TLV7211AIDR	296-21868-1-ND	CMOS Comparator	8-SOIC	1.20	1.00	.80
TLV7211AIDR	296-21868-2-ND	CMOS Comparator	8-SOIC	1300.00/2,500		
TLV7211IDBVR	296-21869-1-ND	CMOS Comparator	SOT-23-5	.90	.75	.60
TLV7211IDBVR	296-21869-2-ND	CMOS Comparator	SOT-23-5	1170.00/3,000		
TLV7211IDCKR	296-21870-1-ND	CMOS Comparator	SC70-6	.90	.75	.60
TLV7211IDCKR	296-21870-2-ND	CMOS Comparator	SC70-6	1170.00/3,000		
TLV7211IDR	296-21871-1-ND	CMOS Comparator	8-SOIC	.90	.75	.60
TLV7211IDR	296-21871-2-ND	CMOS Comparator	8-SOIC	975.00/2,500		
TLV7256IDDUR	296-21872-1-ND	Dual Comparator	8-VSSOP	.78	.65	.52
TLV7256IDDUR	296-21872-2-ND	Dual Comparator	8-VSSOP	1014.00/3,000		

High Speed Comparators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
LM139DR	296-6614-1-ND	Quad GP Differential Comparator	14-SOIC	1.20	1.00	.80
LM139DR	296-6614-2-ND	Quad GP Differential Comparator	14-SOIC	1300.00/2,500		
LM193DR	296-6615-1-ND	Dual GP Differential Comparator	8-SOIC	.84	.63	.48
LM193DR	296-6615-2-ND	Dual GP Differential Comparator	8-SOIC	682.50/2,500		
LM211D	296-6616-5-ND	Differential Comparator with Strobe	8-SOIC	.44	.36	.27
LM211DR	296-14589-1-ND	Differential Comparator with Strobe	8-SOIC	.44	.36	.27
LM211DR	296-14589-2-ND	Differential Comparator with Strobe	8-SOIC	297.50/2,500		
LM211MDREP	296-22162-1-ND	Diff. Comparator with Strobe **NEW!**	8-SOIC	1.25	1.00	.75
LM211MDREP	296-22162-2-ND	Diff. Comparator with Strobe **NEW!**	8-SOIC	1600.00/2,500		
LM211P	296-6617-5-ND	Differential Comparator with Strobe	8-Dip	.55	.44	.33
LM211QD	296-9520-5-ND	Differential Comparator with Strobe	8-SOIC	.92	.69	.52
LM211QDREP	296-18099-1-ND	Diff. Comparator with Strobe **NEW!**	8-SOIC	.81	.68	.54
LM211QDREP	296-18099-2-ND	Diff. Comparator with Strobe **NEW!**	8-SOIC	877.50/2,500		
LM211QDRQ1	296-17493-1-ND	Differential Comparator with Strobe	8-SOIC	.75	.63	.50
LM211QDRQ1	296-17493-2-ND	Differential Comparator with Strobe	8-SOIC	812.50/2,500		
LM239ADR	296-6618-1-ND	Quad GP Differential Comparator	14-SOIC	.42	.34	.25
LM239ADR	296-6618-2-ND	Quad GP Differential Comparator	14-SOIC	280.00/2,500		
LM239AMPWREP	296-21228-1-ND	Quad GP Diff. Comparator **NEW!**	14-TSSOP	1.38	1.10	.83
LM239AMPWREP	296-21228-2-ND	Quad GP Diff. Comparator **NEW!**	14-TSSOP	1430.00/2,000		
LM239AQDREP	296-18100-1-ND	Quad GP Differential Comparator	14-SOIC	1.11	.93	.74
LM239AQDREP	296-18100-2-ND	Quad GP Differential Comparator	14-SOIC	1202.50/2,500		
LM239D	296-6620-5-ND	Quad GP Differential Comparator	14-SOIC	.60	.48	.36
LM239N	296-6621-5-ND	Quad GP Differential Comparator	14-Dip	.60	.48	.36
LM239PWR	296-15084-1-ND	Quad GP Differential Comparator	14-TSSOP	.48	.36	.27
LM239PWR	296-15084-2-ND	Quad GP Differential Comparator	14-TSSOP	320.00/2,000		
LM306D	296-9533-5-ND	Differential Comparator with Strobe	8-SOIC	1.29	1.08	.86
LM306P	296-1387-5-ND	Differential Comparator with Strobe	8-Dip	1.29	1.08	.86
LM311D	296-1388-5-ND	Differential Comparator with Strobe	8-SOIC	.47	.38	.26
LM311DR	296-1388-1-ND	Differential Comparator with Strobe	8-SOIC	.47	.38	.26
LM311DR	296-1388-2-ND	Differential Comparator with Strobe	8-SOIC	305.00/2,500		
LM311P	296-1389-5-ND	Differential Comparator with Strobe	8-Dip	.51	.42	.29
LM311PWR	296-13719-1-ND	Differential Comparator with Strobe	8-TSSOP	.50	.40	.30
LM311PWR	296-13719-2-ND	Differential Comparator with Strobe	8-TSSOP	280.00/2,000		
TL712CD	296-6629-5-ND	Differential Comparator	8-SOIC	1.38	1.15	.92
TL712CP	296-6630-5-ND	Differential Comparator	8-Dip	1.38	1.15	.92
TL714CD	296-6631-5-ND	High Speed Differential Comparator	8-SOIC	2.70	2.16	1.68
TL714CP	296-6632-5-ND	High Speed Differential Comparator	8-Dip	2.70	2.16	1.68
TL3016CD	296-1793-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.00	1.60	1.20
TL3016ID	296-1794-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.20	1.76	1.32
TL3016IPW	296-13615-5-ND	Ultra-Fast LP Precision Comparator	8-TSSOP	2.20	1.76	1.32

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

TEXAS INSTRUMENTS Digi-Reel® COMPARATORS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL3116CD	296-6626-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.00	1.60	1.20
TL3116CPWR	296-6627-1-ND	Ultra-Fast LP Precision Comparator	8-TSSOP	2.00	1.60	1.20
TL3116CPWR	296-6627-2-ND	Ultra-Fast LP Precision Comparator	8-TSSOP	2080.00/2,000		
TL3116ID	296-6628-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.20	1.76	1.32
TLV3501AIDBVT	296-18248-1-ND	4.5nS R/R HS Comparator	SOT-23-6	3.71	2.97	2.31
TLV3501AIDBVT	296-18248-2-ND	4.5nS R/R HS Comparator	SOT-23-6	548.75/250		
TLV3502AID	296-18301-5-ND	4.5nS R/R HS Comparator	8-SOIC	4.95	3.96	3.08

Low Power Comparators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMV331IDBVR	296-6633-1-ND	Single GP Low Voltage Comparator	SOT-23-5	.48	.37	.28
LMV331IDBVR	296-6633-2-ND	Single GP Low Voltage Comparator	SOT-23-5	471.00/3,000		
LMV331IDCKR	296-6634-1-ND	Single GP Low Voltage Comparator	SC70-5	.48	.37	.28
LMV331IDCKR	296-6634-2-ND	Single GP Low Voltage Comparator	SC70-5	471.00/3,000		
LMV393IDDUR	296-17028-1-ND	Dual Low Voltage Comparator	8-VSSOP	.80	.60	.45
LMV393IDDUR	296-17028-2-ND	Dual Low Voltage Comparator	8-VSSOP	780.00/3,000		
LMV393IDGKR	296-13993-1-ND	Dual GP Low Voltage Comparator	8-MSOP	.88	.66	.50
LMV393IDGKR	296-13993-2-ND	Dual GP Low Voltage Comparator	8-MSOP	715.00/2,500		
LMV393IDR	296-6635-1-ND	Dual GP Low Voltage Comparator	8-SOIC	.80	.60	.45
LMV393IDR	296-6635-2-ND	Dual GP Low Voltage Comparator	8-SOIC	650.00/2,500		
LMV393IPWR	296-6636-1-ND	Dual GP Low Voltage Comparator	8-TSSOP	.88	.66	.50
LMV393IPWR	296-6636-2-ND	Dual GP Low Voltage Comparator	8-TSSOP	586.00/2,000		
LP211D	296-9573-5-ND	Differential Comparator	8-SOIC	1.02	.85	.68
LP2901D	296-9574-5-ND	Quad Differential Comparator	14-SOIC	1.14	.95	.76
LP2901IDRQ1	296-20931-1-ND	Quad Differential Comparator	14-SOIC	1.34	1.12	.89
LP2901IDRQ1	296-20931-2-ND	Quad Differential Comparator	14-SOIC	1447.50/2,500		
LP2901N	296-9575-5-ND	Quad Differential Comparator	14-Dip	1.14	.95	.76
LP311D	296-9576-5-ND	Differential Comparator	8-SOIC	1.14	.95	.76
LP311DR	296-14608-1-ND	Differential Comparator	8-SOIC	1.14	.95	.76
LP311DR	296-14608-2-ND	Differential Comparator	8-SOIC	1235.00/2,500		
LP311P	296-9577-5-ND	Differential Comparator	8-Dip	1.14	.95	.76
LP339D	296-9578-5-ND	Quad Differential Comparator	14-SOIC	.60	.45	.34
LP339DR	296-14609-1-ND	Quad Differential Comparator	14-SOIC	.50	.40	.30
LP339DR	296-14609-2-ND	Quad Differential Comparator	14-SOIC	335.00/2,500		
LP339N	296-9579-5-ND	Quad Differential Comparator	14-Dip	.53	.42	.32
TLC339CD	296-10281-5-ND	Quad Differential Comparator	14-SOIC	1.11	.93	.74
TLC339CN	296-12312-5-ND	Quad Differential Comparator	14-Dip	1.11	.93	.74
TLC339CPWR	296-10282-1-ND	Quad Differential Comparator	14-TSSOP	1.11	.93	.74
TLC339CPWR	296-10282-2-ND	Quad Differential Comparator	14-TSSOP	984.00/2,000		
TLC339ID	296-1324-5-ND	Quad Differential Comparator	14-SOIC	1.20	1.00	.80
TLC339IDR	296-1324-1-ND	Quad Differential Comparator	14-SOIC	1.20	1.00	.80
TLC339IDR	296-1324-2-ND	Quad Differential Comparator	14-SOIC	1300.00/2,500		
TLC339IN	296-10283-5-ND	Quad Differential Comparator	14-Dip	1.20	1.00	.80
TLC339MN	296-10284-5-ND	Quad Differential Comparator	14-Dip	1.25	1.00	.75
TLC352IPW	296-17476-5-ND	Dual Differential Comparator	8-TSSOP	1.11	.93	.74
TLC374CD	296-1328-5-ND	Quad Differential Comparator	14-SOIC	1.02	.85	.68
TLC374CDR	296-1328-1-ND	Quad Differential Comparator	14-SOIC	1.02	.85	.68
TLC374CDR	296-1328-2-ND	Quad Differential Comparator	14-SOIC	1105.00/2,500		
TLC393CD	296-1329-5-ND	Dual Voltage Comparator	8-SOIC	.75	.63	.50
TLC393CDR	296-1329-1-ND	Dual Voltage Comparator	8-SOIC	.75	.63	.50
TLC393CDR	296-1329-2-ND	Dual Voltage Comparator	8-SOIC	812.50/2,500		
TLC393CP	296-1849-5-ND	Dual Voltage Comparator	8-Dip	.75	.63	.50
TLC393CPWR	296-10318-1-ND	Dual Voltage Comparator	8-TSSOP	.75	.63	.50
TLC393CPWR	296-10318-2-ND	Dual Voltage Comparator	8-TSSOP	666.00/2,000		
TLC393ID	296-1330-5-ND	Dual Voltage Comparator	8-SOIC	.84	.70	.56
TLC393IDR	296-1330-1-ND	Dual Voltage Comparator	8-SOIC	.84	.70	.56
TLC393IDR	296-1330-2-ND	Dual Voltage Comparator	8-SOIC	910.00/2,500		
TLC393IP	296-10320-5-ND	Dual Voltage Comparator	8-Dip	.84	.70	.56
TLC393IPWR	296-10321-1-ND	Dual Voltage Comparator	8-TSSOP	.84	.70	.56
TLC393IPWR	296-10321-2-ND	Dual Voltage Comparator	8-TSSOP	744.00/2,000		
TLC393QDRQ1	296-17501-1-ND	Dual Voltage Comparator	8-SOIC	.90	.75	.60
TLC393QDRQ1	296-17501-2-ND	Dual Voltage Comparator	8-SOIC	975.00/2,500		
TLC3702CD	296-1325-5-ND	Dual Voltage Comparator	8-SOIC	.78	.65	.52
TLC3702CDR	296-1325-1-ND	Dual Voltage Comparator	8-SOIC	.78	.65	.52
TLC3702CDR	296-1325-2-ND	Dual Voltage Comparator	8-SOIC	845.00/2,500		
TLC3702CP	296-1841-5-ND	Dual Voltage Comparator	8-Dip	.78	.65	.52
TLC3702ID	296-1326-5-ND	Dual Voltage Comparator	8-SOIC	.87	.73	.58
TLC3702IDR	296-1326-1-ND	Dual Voltage Comparator	8-SOIC	.87	.73	.58
TLC3702IDR	296-1326-2-ND	Dual Voltage Comparator	8-SOIC	942.50/2,500		
TLC3702IP	296-10300-5-ND	Dual Voltage Comparator	8-Dip	.87	.73	.58
TLC3702IPW	296-10301-5-ND	Dual Voltage Comparator	8-TSSOP	.87	.73	.58
TLC3702MD	296-12188-5-ND	Dual Voltage Comparator	8-SOIC	1.02	.85	.68
TLC3702MDREP	296-18142-1-ND	Dual Voltage Comparator	8-SOIC	2.35	1.88	1.41
TLC3702MDREP	296-18142-2-ND	Dual Voltage Comparator	8-SOIC	3007.50/2,500		
TLC3702QDRQ1	296-18903-1-ND	Dual Voltage Comparator	8-SOIC	.93	.78	.62
TLC3702QDRQ1	296-18903-2-ND	Dual Voltage Comparator	8-SOIC	1007.50/2,500		
TLC3704CD	296-10302-5-ND	Quad Voltage Comparator	14-SOIC	1.05	.88	.70
TLC3704CN	296-10303-5-ND	Quad Voltage Comparator	14-Dip	1.05	.88	.70
TLC3704CNS	296-10304-5-ND	Quad Voltage Comparator	14-SOP	1.05	.88	.70
TLC3704CNSR	296-10304-1-ND	Quad Voltage Comparator	14-SOP	1.05	.88	.70
TLC3704CNSR	296-10304-2-ND	Quad Voltage Comparator	14-SOP	932.00/2,000		
TLC3704CPWR	296-10305-1-ND	Quad Voltage Comparator	14-TSSOP	1.05	.88	.70
TLC3704CPWR	296-10305-2-ND	Quad Voltage Comparator	14-TSSOP	932.00/2,000		
TLC3704ID	296-1843-5-ND	Quad Voltage Comparator	14-SOIC	1.17	.98	.78
TLC3704IN	296-10306-5-ND	Quad Voltage Comparator	14-Dip	1.17	.98	.78
TLC3704IPW	296-10307-5-ND	Quad Voltage Comparator	14-TSSOP	1.17	.98	.78
TLC3704MD	296-10308-5-ND	Quad Voltage Comparator	14-SOIC	1.38	1.15	.92
TLC3704QDRQ1	296-17830-1-ND	Quad Voltage Comparator	14-SOIC	1.23	1.03	.82
TLC3704QDRQ1	296-17830-2-ND	Quad Voltage Comparator	14-SOIC	1332.50/2,500		
TLV2702ID	296-12503-5-ND	Nanopower Op Amp and Push-Pull Comparator	8-SOIC	2.15	1.72	1.29
TLV2702IDGK	296-13370-5-ND	Nanopower Op Amp and Push-Pull Comparator	8-MSOP	2.15	1.72	1.29
TLV3011AIDBVT	296-16745-1-ND	Nanopower 1.8V Comparator	SOT-23-6	2.13	1.70	1.28
TLV3011AIDBVT	296-16745-2-ND	Nanopower 1.8V Comparator	SOT-23-6	297.50/250		
TLV3011AIDCKT	296-17117-1-ND	Nanopower 1.8V Comparator	SC70-6	2.13	1.70	1.28
TLV3011AIDCKT	296-17117-2-ND	Nanopower 1.8V Comparator	SC70-6	297.50/250		
TLV3011AMDBVREP	296-22429-1-ND	Nanopower 1.8V Comparator ***NEW!***	SOT-23-6	4.30	3.44	2.68
TLV3011AMDBVREP	296-22429-2-ND	Nanopower 1.8V Comparator ***NEW!***	SOT-23-6	7221.00/3,000		
TLV3012AIDBVT	296-16830-1-ND	1.8V, Comparator with Voltage Ref.	SOT-23-6	2.13	1.70	1.28
TLV3012AIDBVT	296-16830-2-ND	1.8V, Comparator with Voltage Ref.	SOT-23-6	297.50/250		
TLV3012AIDCKT	296-17118-1-ND	1.8V, Comparator with Voltage Ref.	SC70-6	2.13	1.70	1.28
TLV3012AIDCKT	296-17118-2-ND	1.8V, Comparator with Voltage Ref.	SC70-6	297.50/250		
TLV3401IDBVR	296-13376-1-ND	Nanopower Open Drain Output Comparator	SOT-23-5	1.63	1.30	.98
TLV3401IDBVR	296-13376-2-ND	Nanopower Open Drain Output Comparator	SOT-23-5	2496.00/3,000		
TLV3401IDR	296-10707-1-ND	Nanopower Open Drain Output Comparator	8-SOIC	1.63	1.30	.98
TLV3401IDR	296-10707-2-ND	Nanopower Open Drain Output Comparator	8-SOIC	2080.00/2,500		
TLV3401IP	296-12042-5-ND	Nanopower Open Drain Output Comparator	8-Dip	1.63	1.30	.98
TLV3402IP	296-12043-5-ND	Dual Open Drain Output Comparator	8-Dip	2.25	1.80	1.35
TLV3402IDGKR	296-10708-1-ND	Dual Nanopower Comparator	8-MSOP	2.25	1.80	1.35
TLV3402IDGKR	296-10708-2-ND	Dual Nanopower Comparator	8-MSOP	2880.00/2,500		
TLV3402IDR	296-10709-1-ND	Dual Nanopower Comparator	8-SOIC	2.25	1.80	1.35
TLV3402IDR	296-10709-2-ND	Dual Nanopower Comparator	8-SOIC	2880.00/2,500		
TLV3404IN	296-12044-5-ND	Quad Open Drain Output Comparator	14-Dip	2.59	2.07	1.61
TLV3492AMDREP	296-23064-1-ND	1.8V Nanopower, Push/Pull Output Comparator ***NEW!***	8-SOIC	4.16	3.33	2.59
TLV3492AMDREP	296-23064-2-ND	1.8V Nanopower, Push/Pull Output Comparator ***NEW!***	8-SOIC	5827.50/2,500		
TLV3501AID	296-17921-5-ND	4.5nS R/R High Speed Comparator	8-SOIC	3.38	2.70	2.10
TLV3502AIDCNT	296-18147-1-ND	4.5nS R/R High Speed Comparator	SOT-23-8	5.51	4.41	3.43
TLV3502AIDCNT	296-18147-2-ND	4.5nS R/R High Speed Comparator	SOT-23-8	814.75/250		
TLV3701CDBVT	296-13377-1-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	1.63	1.30	.98
TLV3701CDBVT	296-13377-2-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	227.50/250		
TLV3701ID	296-12608-5-ND	Nanopower Push-Pull Output Comparator	8-SOIC	1.63	1.30	.98
TLV3701IDBVT	296-13378-1-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	1.75	1.40	1.05
TLV3701IDBVT	296-13378-2-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	245.00/250		
TLV3701IP	296-13379-5-ND	Nanopower Push-Pull Output Comparator	8-Dip	1.63	1.30	.98
TLV3701QDBVREP	296-22430-1-ND	Nanopower Push-Pull Output Comparator ***NEW!***	SOT-23-5	2.20	1.76	1.32
TLV3701QDBVREP	296-22430-2-ND	Nanopower Push-Pull Output Comparator ***NEW!***	SOT-23-5	3378.00/3,000		
TLV3701QDBVRQ1	296-16957-1-ND	Nanopower Push-Pull Output Comparator	SOT-23	1.75	1.40	1.05
TLV3701QDBVRQ1	296-16957-2-ND	Nanopower Push-Pull Output Comparator	SOT-23	2688.00/3,000		
TLV3702ID	296-12609-5-ND	Dual Nanopower Push-Pull Output Comparator	8-SOIC	2.25	1.80	1.35
TLV3702IP	296-13380-5-ND	Dual Nanopower Push-Pull Output Comparator	8-Dip	2.25	1.80	1.35
TLV3702IDGK	296-12610-5-ND	Dual Nanopower Push-Pull Output Comparator	8-MSOP	2.25	1.80	1.35
TLV3702QDRQ1	296-16958-1-ND	Nanopower Push-Pull Output Comparator	8-SOIC	2.38	1.90	1.43
TLV3702QDRQ1	296-16958-2-ND	Nanopower Push-Pull Output Comparator	8-SOIC	3040.00/2,500		
TLV3704IDR	296-12287-1-ND	Quad Nanopower Push-Pull Comparator	14-SOIC	2.59	2.07	1.61
TLV3704IDR	296-12287-2-ND	Quad Nanopower Push-Pull Comparator	14-SOIC	3622.50/2,500		
TLV3704IN	296-12611-5-ND	Quad Nanopower Push-Pull Comparator	14-Dip	2.59	2.07	1.61
TLV3704IPW	296-12400-5-ND	Quad Nanopower Push-Pull Comparator	14-TSSOP	2.59	2.07	1.61

Low Voltage Comparators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC352CD	296-1839-5-ND	Dual Differential Comparator	8-SOIC	1.02	.85	.68
TLC352CP	296-10285-5-ND	Dual Differential Comparator	8-Dip	1.02	.85	.68
TLC352ID	296-10286-5-ND	Dual Differential Comparator	8-SOIC	1.11	.93	.74
TLC352IP	296-10287-5-ND	Dual Differential Comparator	8-Dip	1.11	.93	.74
TLC354CD	296-10292-5-ND	Quad Differential Comparator	14-SOIC	1.17	.98	.78
TLC354CN	296-10293-5-ND	Quad Differential Comparator	14-Dip	1.17	.98	.78
TLC354CPW	296-10294-5-ND	Quad Differential Comparator	14-TSSOP	1.17	.98	.78
TLC354ID	296-10295-5-ND	Quad Differential Comparator	14-SOIC	1.38	1.15	.92
TLV1391CDBVR	296-10492-1-ND	Differential Comparator	SOT-23-5	.75	.63	.50
TLV1391CDBVR	296-10492-2-ND	Differential Comparator	SOT-23-5	975.00/3,000		
TLV2352ID	296-10517-5-ND	Dual Differential Comparator	8-SOIC	1.90	1.52	1.14
TLV2352IP	296-10518-5-ND	Dual Differential Comparator	8-Dip	1.90	1.52	1.14
TLV2352IPWR	296-10519-1-ND	Dual Differential Comparator	8-TSSOP	1.90	1.52	1.14
TLV2352IPWR	296-10519-2-ND	Dual Differential Comparator	8-TSSOP	1976.00/2,000		
TLV2354ID	296-10520-5-ND	Quad Differential Comparator	14-SOIC	2.68	2.15	1.67
TLV2354IN	296-10521-5-ND	Quad Differential Comparator	14-Dip	2.68	2.15	1.67
TLV2354IPWR	296-10522-1-ND	Quad Differential Comparator	14-TSSOP	2.68	2.15	1.67
TLV2354IPWR	296-10522-2-ND	Quad Differential Comparator	14-TSSOP	3034.00/2,000		

TEXAS INSTRUMENTS Digi-Reel® DATA COMMUNICATIONS

Central Office CODEC

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TP3054BDW	296-10784-5-ND	PCM CODEC/Filtering System (u-law)	16-SOIC	2.75	2.20	1.71
TP3056BDW	296-10785-5-ND	PCM CODEC/Filter (A-law and u-law)	16-SOIC	2.86	2.29	1.78
TP3056BN	296-10786-5-ND	PCM CODEC/Filter (A-law and u-law)	16-Dip	2.86	2.29	1.78
TP3057ADW	296-10787-5-ND	PCM CODEC and Filter (A-law)	16-SOIC	2.75	2.20	1.71
TP3057AN	296-10788-5-ND	PCM CODEC and Filter (A-law)	16-Dip	2.75	2.20	1.71
TP3057BDW	296-10789-5-ND	PCM CODEC and Filter (A-law)	16-SOIC	2.75	2.20	1.71
TP3057BN	296-10790-5-ND	PCM CODEC and Filter (A-law)	16-Dip	2.75	2.20	1.71
TP3064BN	296-10792-5-ND	PCM CODEC/Filtering System (u-law)	20-Dip	2.75	2.20	1.71
TP3067AN	296-10794-5-ND	PCM CODEC and Filter (A-law)	20-Dip	2.75	2.20	1.71
TP3067BDW	296-10795-5-ND	PCM CODEC and Filter (A-law)	20-SOIC	2.75	2.20	1.71
TP3067BN	296-10796-5-ND	PCM CODEC and Filter (A-law)	20-Dip	2.75	2.20	1.71
TP13054ADW	296-10774-5-ND	PCM CODEC/Filtering System (u-law)	16-SOIC	3.08	2.47	1.92
TP13054BN	296-10776-5-ND	PCM CODEC/Filtering System (u-law)	16-Dip	3.08	2.47	1.92
TP13057BDW	296-10777-5-ND	PCM CODEC and Filter (A-law)	16-SOIC	3.08	2.47	1.92
TP13057BN	296-10778-5-ND	PCM CODEC and Filter (A-law)	16-Dip	3.08	2.47	1.92
TP13064BDW	296-10779-5-ND	PCM CODEC/Filtering System (u-law)	20-SOIC	3.08	2.47	1.92
TP13067BN	296-10781-5-ND	PCM CODEC and Filter (A-law)	20-Dip	3.08	2.47	1.92

IrDA

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TIR1000IPWR	296-6574-1-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2.59	2.07	1.61
TIR1000IPWR	296-6574-2-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2932.00/2,000		
TIR1000PSR	296-6572-1-ND	Standalone IrDA Encoder/Decoder	8-SOP	2.45	1.96	1.47
TIR1000PSR	296-6572-2-ND	Standalone IrDA Encoder/Decoder	8-SOP	2548.00/2,000		
TIR1000PWR	296-6573-1-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2.45	1.96	1.47
TIR1000PWR	296-6573-2-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2548.00/2,000		

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

DATA COMMUNICATIONS *(Continued)*

Ring Controllers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC2750DW	296-2602-5-ND	Source Ringer Controller	28-SOIC	12.41	11.18	9.91
UCC2751D	296-2603-5-ND	Single Line Ring Generator Controller	16-SOIC	5.29	4.23	3.29
UCC2752D	296-2604-5-ND	Resonant Ring Generator Controller	16-SOIC	5.29	4.23	3.29
UCC3750N	296-11454-5-ND	Source Ringer Controller	28-Dip	9.16	8.25	7.32
UCC3750DW	296-2605-5-ND	Source Ringer Controller	28-SOIC	9.16	8.25	7.32
UCC3751D	296-2606-5-ND	Single Line Ring Generator Controller	16-SOIC	4.39	3.51	2.73
UCC3751N	296-11455-5-ND	Single Line Ring Generator Controller	16-Dip	4.39	3.51	2.73
UCC3752D	296-2607-5-ND	Resonant Ring Generator Controller	16-SOIC	4.39	3.51	2.73
UCC3752N	296-11456-5-ND	Resonant Ring Generator Controller	16-Dip	4.39	3.51	2.73

SONET Transceivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SLK2501IPZP	296-12281-ND	OC-48 SONET/SDH Multirate Transceiver	100-HTQFP	55.13	51.45	47.78
SLK2511AIPZP	296-16997-ND	Sonet/SDH Multirate Transceiver	100-HTQFP	55.13	51.45	47.78
SLK2511BPZP	296-21543-ND	Sonet/SDH Multirate Transceiver	100-HTQFP	55.13	51.45	47.78
SLK2511IPZP	296-13035-5-ND	Sonet/SDH Multirate Transceiver	100-HTQFP	55.13	51.45	47.78
SLK2701IPZP	296-12543-ND	2.7Gbps SONET/SDH Multirate Transceiver	100-HTQFP	55.13	51.45	47.78
SLK2721IPZP	296-13036-5-ND	Sonet/SDH Multirate Transceiver with Enhanced Jitter Tolerance	100-HTQFP	55.13	51.45	47.78

UARTs

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL16C450FN	296-10145-5-ND	Async. Communication Element	44-PLCC	3.22	2.58	2.01
TL16C451FN	296-10146-5-ND	Async. Communication Element	68-PLCC	5.36	4.29	3.34
TL16C452FN	296-10147-5-ND	Dual Async. Comm. Element	68-PLCC	5.45	4.36	3.39
TL16C550BPT	296-10152-ND	Async. Communication Element	48-LQFP	5.98	4.79	4.04
TL16C550CFN	296-10153-5-ND	Async. Communication Element	44-PLCC	4.28	3.42	2.66
TL16C550CIFN	296-10154-5-ND	Async. Communication Element	44-PLCC	4.70	3.77	2.93
TL16C550CIPT	296-1786-5-ND	Async. Communication Element	48-LQFP	4.07	3.26	2.54
TL16C550CPFB	296-10156-ND	Async. Communication Element	48-TQFP	3.65	2.92	2.27
TL16C550CPT	296-1787-ND	Async. Communication Element	48-LQFP	3.65	2.92	2.27
TL16C550CPTR	296-1787-1-ND	Async. Communication Element	48-LQFP	3.65	2.92	2.27
TL16C550CPTR	296-1787-2-ND	Async. Communication Element	48-LQFP	2066.00/1,000		
TL16C550DIPFB	296-21519-ND	Async. Communication Element	48-TQFP	3.53	2.83	2.20
TL16C550DIPT	296-16981-ND	Async. Communication Element	48-LQFP	3.53	2.83	2.20
TL16C550DIRHB	296-17676-ND	Async. Communication Element	32-QFN	3.53	2.83	2.20
TL16C550DPFB	296-18722-ND	Async. Communication Element	48-TQFP	3.11	2.49	1.94
TL16C550DPT	296-21520-ND	Async. Communication Element	48-LQFP	3.11	2.49	1.94
TL16C550DRHB	296-17677-ND	Async. Communication Element	32-QFN	3.11	2.49	1.94
TL16C552AFN	296-1788-5-ND	Dual Async. Communication	68-PLCC	7.60	6.08	5.13
TL16C552AFNR	296-1788-1-ND	Dual Async. Communication	68-PLCC	7.60	6.08	5.13
TL16C552AFNR	296-1788-2-ND	Dual Async. Communication	68-PLCC	1235.00/250		
TL16C552AIFN	296-10159-5-ND	Dual Async. Communication	68-PLCC	7.98	6.39	5.39
TL16C552APN	296-10160-ND	Dual Async. Communication	80-LQFP	7.04	5.64	4.76
TL16C554AFN	296-6587-5-ND	Quad UART with 16-Byte FIFO	68-PLCC	8.55	7.70	6.83
TL16C554APN	296-6588-5-ND	Quad UART with 16-Byte FIFO	80-LQFP	8.55	7.70	6.83
TL16C554IFN	296-6589-5-ND	Quad UART with 16-Byte FIFO	68-PLCC	9.81	8.84	7.84
TL16C750FN	296-2647-5-ND	64-Byte FIFO UART	44-PLCC	7.60	6.08	5.13
TL16C750IPM	296-6591-ND	Single UART with 64-Byte FIFO, AFC, Low Power Modes	64-LQFP	7.42	5.94	5.01
TL16C750PM	296-6592-5-ND	Single UART with 64-Byte FIFO, AFC, Low Power Modes	64-LQFP	7.04	5.64	4.76
TL16C752BLPTREP	296-22406-1-ND	3.3V Dual UART with 64-Byte FIFO ***NEW!***	48-LQFP	9.33	8.40	7.45
TL16C752BLPTREP	296-22406-2-ND	3.3V Dual UART with 64-Byte FIFO ***NEW!***	48-LQFP	6916.00/1,000		
TL16C752BPT	296-2648-ND	3.3V Dual UART with 64-Byte FIFO	48-LQFP	5.04	4.04	3.41
TL16C752BTPTREP	296-18136-1-ND	3.3V Dual UART with 64-Byte FIFO	48-LQFP	7.62	6.10	5.15
TL16C752BTPTREP	296-18136-2-ND	3.3V Dual UART with 64-Byte FIFO	48-LQFP	4763.00/1,000		
TL16C754BFN	296-2650-5-ND	Quad 64-Byte FIFO UART	68-PLCC	12.35	11.12	9.86
TL16C754BPN	296-6593-5-ND	Quad UART with 64-Byte FIFO	80-LQFP	11.88	10.70	9.49
TL16C2550IPFB	296-21517-ND	1.8V to 5V Dual UART with 16-Byte FIFO	48-TQFP	5.70	4.56	3.85
TL16C2550IRHB	296-21518-5-ND	1.8V to 5V Dual UART with 16-Byte FIFO	32-QFN	5.04	4.04	3.41
TL16C2550PFB	296-18721-ND	1.8V to 5V Dual UART with 16-Byte FIFO	48-TQFP	5.32	4.26	3.60
TL16C2550RHB	296-20708-5-ND	1.8V to 5V Dual UART with 16-Byte FIFO	32-QFN	5.24	4.20	3.27
TL16C2552FN	296-19881-5-ND	1.8V to 5V Dual UART with 16-Byte FIFO	44-PLCC	5.70	4.56	3.85
TL16C2552IFN	296-21967-5-ND	1.8V to 5V Dual UART with 16-Byte FIFO	44-PLCC	6.08	4.87	4.11
TL16C2752FN	296-21988-5-ND	1.8V to 5V Dual UART	44-PLCC	6.66	5.33	4.50
TL16C2752IFN	296-21989-5-ND	1.8V to 5V Dual UART	44-PLCC	7.04	5.64	4.76
TL16CP754CIPM	296-23061-ND	Quad UART with 64-Byte FIFO ***NEW!***	64-LQFP	11.00	9.90	8.78
TL16CP754CPM	296-23062-ND	Quad UART with 64-Byte FIFO ***NEW!***	64-LQFP	10.68	9.62	8.53
TL16PC564BLVPZ	296-2651-ND	PCMCIA UART	100-LQFP	10.16	9.15	8.12
TL16PC564BPZ	296-6594-5-ND	Single UART with 64-Byte FIFO, PCMCIA Interface	100-LQFP	9.83	8.85	7.85
TL16PIR552PH	296-6595-5-ND	Dual UART with 16-Byte FIFO, Selectable IR and 1284 Modes	80-QFP	10.16	9.15	8.12

USB

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TUSB1105RGTR	296-21921-1-ND	Advanced USB Transceiver	16-QFN	1.25	1.00	.75
TUSB1105RGTR	296-21921-2-ND	Advanced USB Transceiver	16-QFN	1920.00/3,000		
TUSB1105RTZR	296-21922-1-ND	Advanced USB Transceiver	16-QFN	1.25	1.00	.75
TUSB1105RTZR	296-21922-2-ND	Advanced USB Transceiver	16-QFN	1920.00/3,000		
TUSB1106PWR	296-21923-1-ND	Advanced USB Transceiver	16-TSSOP	1.25	1.00	.75
TUSB1106PWR	296-21923-2-ND	Advanced USB Transceiver	16-TSSOP	1300.00/2,000		
TUSB1106RGTR	296-21924-1-ND	Advanced USB Transceiver	16-QFN	1.25	1.00	.75
TUSB1106RGTR	296-21924-2-ND	Advanced USB Transceiver	16-QFN	1920.00/3,000		
TUSB1106RTZR	296-21925-1-ND	Advanced USB Transceiver	16-QFN	1.25	1.00	.75
TUSB1106RTZR	296-21925-2-ND	Advanced USB Transceiver	16-QFN	1920.00/3,000		
TUSB2036VF	296-11086-ND	2/3-Port USB Hub	32-LQFP	2.45	1.97	1.53
TUSB2036VFG4	296-17784-ND	2/3-Port USB Hub	32-LQFP	2.45	1.97	1.53
TUSB2046BIRHBR	296-21926-1-ND	4-Port USB Hub	32-QFN	2.88	2.31	1.80
TUSB2046BIRHBR	296-21926-2-ND	4-Port USB Hub	32-QFN	4839.00/3,000		
TUSB2046BIVFR	296-11087-1-ND	4-Port USB Hub	32-LQFP	2.88	2.31	1.80
TUSB2046BIVFR	296-11087-2-ND	4-Port USB Hub	32-LQFP	1632.00/1,000		
TUSB2046BVF	296-11088-ND	4-Port USB Hub	32-LQFP	2.57	2.06	1.60
TUSB2077APT	296-11089-ND	7-Port USB Hub	48-LQFP	4.39	3.51	2.73
TUSB2136PM	296-11090-ND	2-Port USB Hub	64-LQFP	6.50	5.20	4.39
TUSB3200ACPAH	296-12289-5-ND	USB Streaming Controller	52-TQFP	8.90	7.12	6.01
TUSB3200CPAH	296-11091-ND	USB Streaming Controller	52-TQFP	7.60	6.08	5.13
TUSB3210PM	296-11092-ND	Universal Serial Bus Controller	64-LQFP	5.00	4.00	3.38
TUSB3410IRHB	296-23092-5-ND	USB-to-Serial Port Controller ***NEW!***	32-QFN	5.00	4.00	3.38
TUSB3410IVF	296-16757-ND	USB-to-Serial Port Controller	32-LQFP	5.00	4.00	3.38
TUSB3410RHB	296-23093-5-ND	USB-to-Serial Port Controller ***NEW!***	32-QFN	5.06	4.05	3.15
TUSB3410UARTPDK	296-18080-ND	Product Design Kit for TUSB3410	—	101.00	—	—
TUSB5052PZ	296-12525-ND	5-Port USB Hub Controller	100-LQFP	8.72	6.98	5.89
TUSB6020ZQE	296-23173-ND	USB 2.0 High Speed On-the-Go Dual Role Controller ***NEW!***	80-BGA	10.00	9.00	7.98
TUSB6250PFC	296-19024-ND	USB 2.0 High Speed Capable Function Controller	80-TQFP	5.60	4.48	3.78

USB Transient Suppression

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65220DBVR	296-9694-1-ND	Single USB Port Transient Suppressor	SOT-23-6	.92	.69	.52
SN65220DBVR	296-9694-2-ND	Single USB Port Transient Suppressor	SOT-23-6	897.00/3,000		
SN65220DBVT	296-2341-1-ND	Single USB Port Transient Suppressor	SOT-23-6	.75	.63	.50
SN65220DBVT	296-2341-2-ND	Single USB Port Transient Suppressor	SOT-23-6	93.75/250		
SN65220YZBT	296-17206-1-ND	Single USB Port Transient Suppressor	4-WCSP	.88	.66	.50
SN65220YZBT	296-17206-2-ND	Single USB Port Transient Suppressor	4-WCSP	91.25/250		
SN75240P	296-6596-5-ND	Dual USB Port Transient Suppressor	8-Dip	.99	.83	.66
SN75240PWR	296-6596-1-ND	Dual USB Port Transient Suppressor	8-TSSOP	.99	.83	.66
SN75240PWR	296-6596-2-ND	Dual USB Port Transient Suppressor	8-TSSOP	878.00/2,000		
SN65240P	296-9695-5-ND	Dual USB Port Transient Suppressor	8-Dip	.99	.83	.66
SN65240PW	296-9696-5-ND	Dual USB Port Transient Suppressor	8-TSSOP	.99	.83	.66
SN65240PWR	296-9696-1-ND	Dual USB Port Transient Suppressor	8-TSSOP	.99	.83	.66
SN65240PWR	296-9696-2-ND	Dual USB Port Transient Suppressor	8-TSSOP	878.00/2,000		

Video Decoder / Encoder

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TVP5031PFP	296-11093-ND	9-Bit with 3-Line Adaptive Comb NTSC/PAL Digital Video Decoder	80-TQFP	17.18	16.03	14.89
TVP5040CPFP	296-11802-ND	10-Bit Dual-Channel NTSC-PAL Digital Video Decoder	80-TQFP	17.18	16.03	14.89
TVP5145PFP	296-13021-5-ND	Digital Video Decoder with Macrovision Detection	80-TQFP	11.68	10.52	9.33
TVP5146M2PFP	296-18306-ND	Single Chip Digital Video Decoder	80-HTQFP	7.00	5.60	4.73
TVP5146PFP	296-16649-ND	Digital Video Decoder	80-TQFP	7.00	5.60	4.73
TVP5147M1IPFP	296-23337-ND	Single Chip Digital Video Decoder ***NEW!***	80-HTQFP	8.20	6.56	5.54
TVP5147M1PFP	296-18307-ND	Single Chip Digital Video Decoder	80-HTQFP	6.50	5.20	4.39
TVP5147PFP	296-16763-ND	Digital Video Decoder	80-TQFP	6.50	5.20	4.39
TVP5150AM1IPBSR	296-23025-1-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder ***NEW!***	32-TQFP	7.50	6.00	5.07
TVP5150AM1IPBSR	296-23025-2-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder ***NEW!***	32-TQFP	4688.00/1,000		
TVP5150AM1IZQCR	296-23026-1-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder ***NEW!***	48-BGA	8.00	6.40	5.40
TVP5150AM1IZQCR	296-23026-2-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder ***NEW!***	48-BGA	12400.00/2,500		
TVP5150AM1PBSR	296-17016-1-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	5.70	4.56	3.85
TVP5150AM1PBSR	296-17016-2-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	3563.00/1,000		
TVP5150AM1ZQC	296-17075-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	48-BGA	6.30	5.04	4.26
TVP5150APBS	296-16650-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	10.55	9.50	8.42
TVP5150APBSR	296-16846-1-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	10.55	9.50	8.42
TVP5150APBSR	296-16846-2-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	7818.00/1,000		
TVP5150PBS	296-19303-ND	Ultralow Power NTSC/PAL/SECAM Video Decoder	32-TQFP	5.70	4.56	3.85
TVP5154AIPNP	296-23153-ND	4-Channel Low Power PAL/NTSC/SECAM Video Decoder ***NEW!***	128-TQFP	13.66	12.30	10.91
TVP5154APNPR	296-23027-1-ND	4-Channel Low Power PAL/NTSC/SECAM Video Decoder ***NEW!***	128-TQFP	11.66	10.50	9.31
TVP5154APNPR	296-23027-2-ND	4-Channel Low Power PAL/NTSC/SECAM Video Decoder ***NEW!***	128-TQFP	8645.00/1,000		
TVP5154PNP	296-19651-ND	4-Channel Low Power PAL/NTSC/SECAM Video Decoder	128-TQFP	11.66	10.50	9.31
TVP5160PNP	296-17800-ND	NTSC/PAL/SECAM Component 2x10-Bit Digital Video Decoder	128-HTQFP	9.58	8.63	7.65
TVP6000CPFP	296-11094-ND	NTSC/PAL Video Encoder	80-TQFP	12.66	11.40	10.11
TVP7000PZP	296-18741-ND	Triple 8/10-Bit, 150/110Msps, Video and Graphics Digitizer	100-TQFP	6.00	4.80	4.05
TVP7001PZP	296-19616-ND	Triple 8/10-Bit, 165/110Msps, Video/ Graphics Digitizer	100-HTQFP	9.50	7.60	6.42
TVP7002PZP	296-22891-ND	Triple 8/10-Bit, 165/110Msps, Video/ Graphics Digitizer ***NEW!***	100-HTQFP	9.58	8.63	7.65

DATA CONVERSION

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AMC1203BDUB	296-23139-5-ND	1-Bit, 10MHz, 2nd-Order, Isolated Delta-Sigma Modulator ***NEW!***	8-SOIC	7.90	6.32	5.34
AMC1203DUB	296-23140-5-ND	1-Bit, 10MHz, 2nd-Order, Isolated Delta-Sigma Modulator ***NEW!***	8-SOIC	6.70	5.36	4.53
AMC1210IRHAT	296-19667-1-ND	Quad Digital Filter for 2nd-Order Delta-Sigma Modulator	40-QFN	3.94	3.15	2.45
AMC1210IRHAT	296-19667-2-ND	Quad Digital Filter for 2nd-Order Delta-Sigma Modulator	40-QFN	582.00/250		
AMC7820EVM	296-13540-ND	Evaluation Module for AMC7820	—	101.00	—	—
AMC7820Y/250	296-12621-1-ND	Analog Monitoring/Control Circuit	48-TQFP	8.30	6.64	5.61
AMC7820Y/250	296-12621-2-ND	Analog Monitoring/Control Circuit	48-TQFP	1348.75/250		
AMC7823EVM	296-20819-ND	Evaluation Module for AMC7823	—	50.00	—	—
AMC7823IRTAT	296-18680-1-ND	Analog Monitoring/Control Circuit	40-QFN	16.13	15.05	13.98
AMC7823IRTAT	296-18680-2-ND	Analog Monitoring/Control Circuit	40-QFN	3426.50/250		

(Continued)

Analog-to-Digital Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADS61B23IRHBT	296-23095-1-ND	12-Bit, 80Msps ADC ***NEW!***	32-QFN	29.25	27.30	25.35
ADS61B23IRHBT	296-23095-2-ND	12-Bit, 80Msps ADC ***NEW!***	32-QFN	6215.75/250		
ADS62C15IRGCT	296-23088-1-ND	2-Ch., 11-Bit, 125Msps ADC ***NEW!***	64-QFN	58.35	54.46	50.57
ADS62C15IRGCT	296-23088-2-ND	2-Ch., 11-Bit, 125Msps ADC ***NEW!***	64-QFN	12399.50/250		
ADS62P15IRGCT	296-22892-1-ND	2-Ch., 11-Bit, 125Msps ADC ***NEW!***	64-QFN	27.98	26.11	24.25
ADS62P15IRGCT	296-22892-2-ND	2-Ch., 11-Bit, 125Msps ADC ***NEW!***	64-QFN	5944.75/250		
ADS62P22IRGCT	296-23161-1-ND	2-Ch., 12-Bit, 65Msps ADC ***NEW!***	64-VQFN	27.15	25.34	23.53
ADS62P22IRGCT	296-23161-2-ND	2-Ch., 12-Bit, 65Msps ADC ***NEW!***	64-VQFN	5769.50/250		
ADS62P23IRGCT	296-23162-1-ND	2-Ch., 12-Bit, 80Msps ADC ***NEW!***	64-VQFN	30.08	28.07	26.07
ADS62P23IRGCT	296-23162-2-ND	2-Ch., 12-Bit, 80Msps ADC ***NEW!***	64-VQFN	6391.00/250		
ADS62P24IRGCT	296-23163-1-ND	2-Ch., 12-Bit, 105Msps ADC ***NEW!***	64-VQFN	51.75	48.30	44.85
ADS62P24IRGCT	296-23163-2-ND	2-Ch., 12-Bit, 105Msps ADC ***NEW!***	64-VQFN	10997.00/250		
ADS62P25IRGCT	296-23164-1-ND	2-Ch., 12-Bit, 125Msps ADC ***NEW!***	64-VQFN	61.88	57.75	53.63
ADS62P25IRGCT	296-23164-2-ND	2-Ch., 12-Bit, 125Msps ADC ***NEW!***	64-VQFN	13148.50/250		
ADS62P42IRGCT	296-23135-1-ND	2-Ch., 14-Bit, 65Msps ADC ***NEW!***	64-VQFN	52.50	49.00	45.50
ADS62P42IRGCT	296-23135-2-ND	2-Ch., 14-Bit, 65Msps ADC ***NEW!***	64-VQFN	11156.25/250		
ADS62P43IRGCT	296-23136-1-ND	2-Ch., 14-Bit, 80Msps ADC ***NEW!***	64-VQFN	56.25	52.50	48.75
ADS62P43IRGCT	296-23136-2-ND	2-Ch., 14-Bit, 80Msps ADC ***NEW!***	64-VQFN	11953.25/250		
ADS62P44IRGCT	296-23137-1-ND	2-Ch., 14-Bit, 105Msps ADC ***NEW!***	64-VQFN	92.25	86.10	79.95
ADS62P44IRGCT	296-23137-2-ND	2-Ch., 14-Bit, 105Msps ADC ***NEW!***	64-VQFN	19603.25/250		
ADS62P45IRGCT	296-23138-1-ND	2-Ch., 14-Bit, 125Msps ADC ***NEW!***	64-VQFN	110.25	102.90	95.55
ADS62P45IRGCT	296-23138-2-ND	2-Ch., 14-Bit, 125Msps ADC ***NEW!***	64-VQFN	23428.25/250		
ADS574JP	ADS574JP-ND	12-Bit, 40kHz Sampling CMOS ADC	28-Dip	30.15	—	—
ADS574KP	ADS574KP-ND	12-Bit, 40kHz Sampling CMOS ADC	28-Dip	34.95	—	—
ADS774JP	ADS774JP-ND	12-Bit, 117kHz Sampling CMOS ADC	28-Dip	34.28	—	—
ADS774JU	ADS774JU-ND	12-Bit, 117kHz Sampling CMOS ADC	28-Dip	27.38	—	—
ADS774KE	ADS774KE-ND	12-Bit, 117kHz Sampling CMOS ADC	28-Dip	32.85	—	—
ADS774KP	ADS774KP-ND	12-Bit, 117kHz Sampling CMOS ADC	28-Dip	39.75	—	—
ADS774KU	ADS774KU-ND	12-Bit, 117kHz Sampling CMOS ADC	28-SOIC	32.85	—	—
ADS800U	ADS800U-ND	12-Bit, 40MHz Sampling ADC	28-SOIC	46.28	—	—
ADS801U	ADS801U-ND	12-Bit, 25MHz Sampling ADC	28-SOIC	18.83	—	—
ADS802U	ADS802U-ND	12-Bit, 10MHz Sampling ADC	28-SOIC	18.90	—	—
ADS803E	ADS803E-ND	12-Bit, 5MHz Sampling ADC	28-SSOP	12.33	—	—
ADS804E	ADS804E-ND	12-Bit, 10MHz Sampling ADC	28-SSOP	15.33	—	—
ADS805E	ADS805E-ND	12-Bit, 20MHz Sampling ADC	28-SSOP	16.49	—	—
ADS807E	ADS807E-ND	12-Bit, 53MHz ADC	28-SSOP	16.95	—	—
DEM-ADS807E	296-18423-ND	Evaluation Fixture for ADS807E	—	203.00	—	—
ADS808Y/250	ADS808Y/250CT-ND	12-Bit, 70Msps Sampling ADC	48-TQFP	32.18	—	—
ADS808Y/250	ADS808Y/250TR-ND	12-Bit, 70Msps Sampling ADC	48-TQFP	6837.25/250		
ADS809Y/250	ADS809Y/250CT-ND	12-Bit, 80Msps Sampling ADC	48-TQFP	41.18	—	—
ADS809Y/250	ADS809Y/250TR-ND	12-Bit, 80Msps Sampling ADC	48-TQFP	8749.75/250		
ADS820U	ADS820U-ND	10-Bit, 20MHz Sampling ADC	28-SOIC	11.25	—	—
ADS821U	ADS821U-ND	10-Bit, 40MHz Sampling ADC	28-SOIC	19.58	—	—
ADS822E	ADS822E-ND	10-Bit, 40MHz Sampling ADC	28-SSOP	8.75	—	—
ADS823E	ADS823E-ND	10-Bit, 60MHz Sampling ADC	28-SSOP	13.99	—	—
DEM-ADS823E	296-18424-ND	Evaluation Fixture for ADS823E	—	152.00	—	—
ADS825E	ADS825E-ND	10-Bit, 40MHz ADC	28-SSOP	8.75	—	—
ADS826E	ADS826E-ND	10-Bit, 60MHz ADC	28-SSOP	13.99	—	—
ADS828E	ADS828E-ND	10-Bit, 75MHz ADC	28-SSOP	14.49	—	—
ADS830E	ADS830E-ND	8-Bit, 60MHz ADC	20-QSOP	5.50	4.40	3.72
ADS830E/2K5	ADS830ETR-ND	8-Bit, 60MHz ADC	20-QSOP	8525.00/2,500		
DEM-ADS830E	296-18425-ND	Demo Board for ADS830E	—	152.00	—	—
ADS831E	ADS831E-ND	8-Bit, 80MHz ADC	20-QSOP	6.30	5.04	4.26
ADS850-EVM	296-12198-ND	Evaluation Module for ADS850	—	152.00	—	—
ADS850Y/2K5	ADS850YCT-ND	14-Bit, 10Msps Self-Calibrating ADC	48-TQFP	27.75	—	—
ADS850Y/2K5	ADS850YTR-ND	14-Bit, 10Msps Self-Calibrating ADC	48-TQFP	5897.00/250		
ADS900E	ADS900E-ND	10-Bit, 20MHz +3V, Supply ADC with Internal Ref	28-SSOP	7.10	5.68	4.80
DEM-ADS9XXE	296-18427-ND	Demo Board for ADS900 Series	—	152.00	—	—
ADS901E	ADS901E-ND	10-Bit, 20MHz +3V, Supply ADC	28-SSOP	6.80	5.44	4.59
ADS930E	ADS930E-ND	8-Bit, 30MHz Sampling ADC with Internal Ref	28-SSOP	5.18	4.14	3.22
ADS931E	ADS931E-ND	8-Bit, 30MHz Sampling ADC	28-SSOP	4.95	3.96	3.08
ADS1000A0IDBVT	296-20737-1-ND	12-Bit ADC Low Power	SOT-23-6	2.48	1.98	1.54
ADS1000A0IDBVT	296-20737-2-ND	12-Bit ADC Low Power	SOT-23-6	365.75/250		
ADS1000A1IDBVT	296-20738-1-ND	12-Bit ADC Low Power	SOT-23-6	2.48	1.98	1.54
ADS1000A1IDBVT	296-20738-2-ND	12-Bit ADC Low Power	SOT-23-6	365.75/250		
ADS1100A0IDBVT	296-12966-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A0IDBVT	296-12966-2-ND	16-Bit ADC Self-Calibrating	SOT-23-6	665.00/250		
ADS1100A1IDBVT	296-14298-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A1IDBVT	296-14298-2-ND	16-Bit ADC Self-Calibrating	SOT-23-6	665.00/250		
ADS1100A2IDBVT	296-14299-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A2IDBVT	296-14299-2-ND	16-Bit ADC Self-Calibrating	SOT-23-6	665.00/250		
ADS1100A3IDBVT	296-14300-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A3IDBVT	296-14300-2-ND	16-Bit ADC Self-Calibrating	SOT-23-6	665.00/250		
ADS1100A4IDBVT	296-14301-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A4IDBVT	296-14301-2-ND	16-Bit ADC Self-Calibrating	SOT-23-6	665.00/250		
ADS1100A5IDBVT	296-14302-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A5IDBVT	296-14302-2-ND	16-Bit ADC Self-Calibrating	SOT-23-6	665.00/250		
ADS1100A6IDBVT	296-14303-1-ND	16-Bit ADC Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A6IDBVT	296-14303-2-ND	16-Bit ADC Self-Calibrating	SOT-23-6	665.00/250		
ADS1100EVM	296-19903-ND	Evaluation Module for ADS1100	—	50.00	—	—
ADS1110A0IDBVT	296-14461-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A0IDBVT	296-14461-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	715.00/250		
ADS1110A1IDBVT	296-14462-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A1IDBVT	296-14462-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	715.00/250		
ADS1110A2IDBVT	296-14463-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A2IDBVT	296-14463-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	715.00/250		
ADS1110A3IDBVT	296-14464-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A3IDBVT	296-14464-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	715.00/250		
ADS1110A4IDBVT	296-14465-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A4IDBVT	296-14465-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	715.00/250		
ADS1110A5IDBVT	296-14466-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A5IDBVT	296-14466-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	715.00/250		
ADS1110A6IDBVT	296-14467-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A6IDBVT	296-14467-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	715.00/250		
ADS1110A7IDBVT	296-14468-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A7IDBVT	296-14468-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	715.00/250		
ADS1110EVM	296-18356-ND	Evaluation Module for ADS1110	—	50.00	—	—
ADS1112IDGST	296-15334-1-ND	16-Bit ADC with Input Mux/Onboard Reference	10-MSOP	5.90	4.72	3.99
ADS1112IDGST	296-15334-2-ND	16-Bit ADC with Input Mux/Onboard Reference	10-MSOP	958.75/250		
ADS1112IDRCT	296-15761-1-ND	16-Bit ADC with Input Mux/Onboard Reference	10-SON	5.90	4.72	3.99
ADS1112IDRCT	296-15761-2-ND	16-Bit ADC with Input Mux/Onboard Reference	10-SON	958.75/250		
ADS1174IPAPT	296-22951-1-ND	Quad, Simultaneous Sampling, 16-Bit ADC ***NEW!***	64-HTQFP	16.43	15.33	14.24
ADS1174IPAPT	296-22951-2-ND	Quad, Simultaneous Sampling, 16-Bit ADC ***NEW!***	64-HTQFP	3490.25/250		
ADS1178IPAPT	296-22952-1-ND	Octal, Simultaneous Sampling, 16-Bit ADC ***NEW!***	64-HTQFP	26.33	24.57	22.82
ADS1178IPAPT	296-22952-2-ND	Octal, Simultaneous Sampling, 16-Bit ADC ***NEW!***	64-HTQFP	5594.00/250		
ADS1201U	ADS1201U-ND	High Dynamic Range Modulator	16-SOIC	11.41	10.28	9.12
ADS1202EVM	296-18357-ND	Evaluation Module for ADS1202	—	50.00	—	—
ADS1202IPWT	296-14064-1-ND	1-Bit, 10MHz Delta-Sigma Modulator	8-TSSOP	5.50	—	—
ADS1202IPWT	296-14064-2-ND	1-Bit, 10MHz Delta-Sigma Modulator	8-TSSOP	893.75/250		
ADS1203IPWT	296-17152-1-ND	1-Bit, 10MHz Delta-Sigma Modulator	8-TSSOP	6.00	—	—
ADS1203IPWT	296-17152-2-ND	1-Bit, 10MHz Delta-Sigma Modulator	8-TSSOP	975.00/250		
ADS1203IRGTT	296-17908-1-ND	1-Bit, 10MHz Delta-Sigma Modulator	16-QFN	6.00	—	—
ADS1203IRGTT	296-17908-2-ND	1-Bit, 10MHz Delta-Sigma Modulator	16-QFN	975.00/250		
ADS1204IRHBT	296-17187-1-ND	Four 1-Bit, 10MHz Delta-Sigma Modulator	32-QFN	12.41	11.18	9.91
ADS1204IRHBT	296-17187-2-ND	Four 1-Bit, 10MHz Delta-Sigma Modulator	32-QFN	2374.75/250		
ADS1205IRGET	296-18193-1-ND	Two 16-Bit, 10MHz, 2nd-Order Delta-Sigma Modulator	24-QFN	8.70	6.96	5.88
ADS1205IRGET	296-18193-2-ND	Two 16-Bit, 10MHz, 2nd-Order Delta-Sigma Modulator	24-QFN	1413.75/250		
ADS1208IPW	296-17889-5-ND	2nd-Order Delta-Sigma Modulator	16-TSSOP	5.90	4.72	3.99
ADS1210P	ADS1210P-ND	24-Bit, Delta-Sigma ADC	18-Dip	19.35	18.06	16.77
ADS1210U	ADS1210U-ND	24-Bit, Delta-Sigma ADC	18-SOP	18.38	17.15	15.93
ADS1211E	ADS1211E-ND	24-Bit, Delta-Sigma ADC with 4-Channel Input Mux	28-SSOP	19.80	18.48	17.16
ADS1211P	ADS1211P-ND	24-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-Dip	20.85	19.46	18.07
ADS1211U	ADS1211U-ND	24-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-SOIC	19.80	18.48	17.16
ADS1212P	ADS1212P-ND	22-Bit, Delta-Sigma ADC	18-Dip	17.49	15.75	13.97
ADS1212U	ADS1212U-ND	22-Bit, Delta-Sigma ADC	18-SOP	16.66	15.00	13.30
ADS1213E	ADS1213E-ND	22-Bit, Delta-Sigma ADC with 4-Channel Input Mux	28-SSOP	17.25	16.10	14.95
ADS1213P	ADS1213P-ND	22-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-Dip	18.15	16.94	15.73
ADS1213U	ADS1213U-ND	22-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-SOIC	17.25	16.10	14.95
ADS1216Y/250	ADS1216Y/250CT-ND	24-Bit, Delta-Sigma ADC	48-TQFP	9.16	8.25	7.32
ADS1216Y/250	ADS1216Y/250TR-ND	24-Bit, Delta-Sigma ADC	48-TQFP	1753.25/250		
DEM-ADS1216	296-19943-ND	Demo Board for ADS1216	—	101.00	—	—
ADS1217EVM	296-19904-ND	Evaluation Module for ADS1217	—	101.00	—	—
ADS1217IPFBT	296-12967-1-ND	24-Bit, 8-Channel Delta-Sigma ADC	48-TQFP	9.16	8.25	7.32
ADS1217IPFBT	296-12967-2-ND	24-Bit, 8-Channel Delta-Sigma ADC	48-TQFP	1753.25/250		
ADS1218EVM	296-13536-ND	Evaluation Module for ADS1218	—	101.00	—	—
ADS1218Y/250	ADS1218Y/250CT-ND	24-Bit, Delta-Sigma ADC	48-TQFP	9.16	8.25	7.32
ADS1218Y/250	ADS1218Y/250TR-ND	24-Bit, Delta-Sigma ADC	48-TQFP	1753.25/250		
ADS1222IPWT	296-17321-1-ND	24-Bit ADC with 2-Channel Mux	14-TSSOP	6.50	5.20	4.39
ADS1222IPWT	296-17321-2-ND	24-Bit ADC with 2-Channel Mux	14-TSSOP	1056.25/250		
ADS1224EVM	296-16984-ND	Evaluation Module for ADS1224	—	50.00	—	—
ADS1224IPWT	296-16923-1-ND	24-Bit ADC Converter with 4-Channel Differential Input Mux	20-TSSOP	7.20	5.76	4.86
ADS1224IPWT	296-16923-2-ND	24-Bit ADC Converter with 4-Channel Differential Input Mux	20-TSSOP	1170.00/250		
ADS1225IRGVT	296-19857-1-ND	24-Bit ADC with 1-Ch. Diff. Input and Internal Oscillator	16-QFN	6.10	4.88	4.12
ADS1225IRGVT	296-19857-2-ND	24-Bit ADC with 1-Ch. Diff. Input and Internal Oscillator	16-QFN	991.25/250		
ADS1226IRGVT	296-19858-1-ND	24-Bit ADC with 2-Ch. Diff. Input and Internal Oscillator	16-QFN	6.50	5.20	4.39
ADS1226IRGVT	296-19858-2-ND	24-Bit ADC with 2-Ch. Diff. Input and Internal Oscillator	16-QFN	1056.25/250		
ADS1230IPW	296-23180-5-ND	Precision 20-Bit ADC	16-TSSOP	5.00	4.00	3.38
ADS1232IPW	296-18589-5-ND	24-Bit ADC Converter	24-TSSOP	7.80	6.24	5.27
ADS1232REF	296-20803-ND	Evaluation Module for ADS1232	—	50.00	—	—
ADS1234IPW	296-18673-5-ND	24-Bit ADC Converter	28-TSSOP	9.00	7.20	6.08
ADS1240E	ADS1240E-ND	24-Bit, Delta-Sigma ADC	24-SSOP	7.60	6.08	5.13
ADS1241E	ADS1241E-ND	24-Bit, Delta-Sigma ADC	28-SSOP	8.40	6.72	5.67
ADS1241MEVM	296-18358-ND	Evaluation Module for ADS1241M	—	50.00	—	—
ADS1242IPWT	ADS1242IPWTCT-ND	24-Bit, Delta-Sigma ADC	16-TSSOP	8.00	6.40	5.40
ADS1242IPWT	ADS1242IPWTTR-ND	24-Bit, Delta-Sigma ADC	16-TSSOP	1300.00/250		
ADS1243IPWT	ADS1243IPWTCT-ND	24-Bit, Delta-Sigma ADC	20-TSSOP	8.70	6.96	5.88
ADS1243IPWT	ADS1243IPWTTR-ND	24-Bit, Delta-Sigma ADC	20-TSSOP	1413.75/250		
ADS1244EVM	296-18359-ND	Evaluation Module for ADS1244	—	50.00	—	—
ADS1244IDGST	296-14003-1-ND	24-Bit, Low Power ADC	10-MSOP	6.50	5.20	4.39
ADS1244IDGST	296-14003-2-ND	24-Bit, Low Power ADC	10-MSOP	1056.25/250		
ADS1245IDGST	296-15742-1-ND	24-Bit, Low Power ADC	10-MSOP	6.90	5.52	4.66
ADS1245IDGST	296-15742-2-ND	24-Bit, Low Power ADC	10-MSOP	1121.25/250		
ADS1250U	ADS1250U-ND	20-Bit, 25kHz ADC, DSP Interface	16-SOIC	11.58	10.43	9.25
ADS1251U	ADS1251U-ND	24-Bit, 20Msps, Low Power ADC	8-SOIC	9.33	8.40	7.45
ADS1252EVM	296-19906-ND	Evaluation Module for ADS1252	—	99.78	—	—
ADS1252U	ADS1252U-ND	24-Bit, 40kHz ADC	8-SOIC	9.35	8.42	7.47
ADS1253E/2K5	296-13060-1-ND	24-Bit, 20kHz, Low Power ADC	16-SSOP	11.16	10.05	8.92
ADS1253E/2K5	296-13060-2-ND	24-Bit, 20kHz, Low Power ADC	16-SSOP	20352.50/2,500		
ADS1254E	ADS1254E-ND	24-Bit, 20kHz, Low Power ADC	20-SSOP	11.16	10.05	8.92
ADS1254E/2K5	ADS1254E/2K5CT-ND	24-Bit, 20kHz, Low Power ADC	20-SSOP	11.16	10.05	8.92
ADS1254E/2K5	ADS1254E/2K5TR-ND	24-Bit, 20kHz, Low Power ADC	20-SSOP	20352.50/2,500		
ADS1255IDBT	296-15743-1-ND	24-Bit, 30Ksps, Low Noise ADC	20-SSOP	11.91	10.73	9.51
ADS1255IDBT	296-15743-2-ND	24-Bit, 30Ksps, Low Noise ADC	20-SSOP	2279.00/250		
ADS1256EVM	296-18360-ND	Evaluation Module for ADS1256	—	50.00	—	—

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADS1256IDBT	296-15208-1-ND	24-Bit, Low Noise ADC	28-SSOP	12.74	11.48	10.18
ADS1256IDBT	296-15208-2-ND	24-Bit, Low Noise ADC	28-SSOP	2438.50/250		
ADS1258IRTCT	296-18674-1-ND	24-Bit, 16-Channel, ADC	48-QFN	14.58	13.13	11.64
ADS1258IRTCT	296-18674-2-ND	24-Bit, 16-Channel, ADC	48-QFN	2789.00/250		
ADS1271EVM	296-18361-ND	Evaluation Module for ADS1271	—	50.00	—	—
ADS1271EVM-PDK	296-18362-ND	Evaluation Module for ADS1271-PDK	—	152.00	—	—
ADS1271IBPW	296-21722-5-ND	24-Bit, Wide Bandwidth ADC	16-TSSOP	13.16	11.85	10.51
ADS1271IPW	296-17513-5-ND	24-Bit, Wide Bandwidth ADC	16-TSSOP	9.83	8.85	7.85
ADS1274IPAPT	296-22078-1-ND	Quad Simultaneous Sampling, 24-Bit ADC **NEW!**	64-HTQFP	23.03	21.49	19.96
ADS1274IPAPT	296-22078-2-ND	Quad Simultaneous Sampling, 24-Bit ADC **NEW!**	64-HTQFP	4892.75/250		
ADS1278IPAPT	296-21983-1-ND	Octal, Simultaneous Sampling, 24-Bit ADC **NEW!**	64-HTQFP	39.53	36.89	34.26
ADS1278IPAPT	296-21983-2-ND	Octal, Simultaneous Sampling, 24-Bit ADC **NEW!**	64-HTQFP	8399.00/250		
ADS1281IPWR	296-22915-1-ND	High Resolution ADC **NEW!**	24-TSSOP	54.30	50.68	47.06
ADS1281IPWR	296-22915-2-ND	High Resolution ADC **NEW!**	24-TSSOP	71506.00/2,000		
ADS1286P	ADS1286P-ND	12-Bit, Micropower Sampling ADC	8-Dip	6.66	—	—
ADS1286PA	ADS1286PA-ND	12-Bit, 200kHz Unipol ADC	8-Dip	7.22	—	—
ADS1286U	ADS1286U-ND	12-Bit, Micropower Sampling ADC	8-SOIC	5.32	—	—
ADS1286UA	ADS1286UA-ND	12-Bit, 200kHz Unipol ADC	8-SOIC	5.90	—	—
ADS1601EVM	296-17825-ND	Evaluation Board for ADS1601	—	203.00	—	—
ADS1601IPFBT	296-17631-1-ND	16-Bit, 1.25Msps ADC	48-TQFP	21.38	19.95	18.53
ADS1602EVM	296-20804-ND	Evaluation Module for ADS1601/02	—	203.00	—	—
ADS1602IPFBT	296-17890-1-ND	16-Bit, 2.5Msps ADC	48-TQFP	20.63	19.25	17.88
ADS1602IPFBT	296-17890-2-ND	16-Bit, 2.5Msps ADC	48-TQFP	4382.75/250		
ADS1605EVM	296-18363-ND	Evaluation Module for ADS1605	—	152.00	—	—
ADS1605IPAPT	296-14643-1-ND	16-Bit, 5Msps ADC	64-HTQFP	24.68	23.03	21.39
ADS1605IPAPT	296-14643-2-ND	16-Bit, 5Msps ADC	64-HTQFP	5243.50/250		
ADS1606EVM	296-16735-ND	Evaluation Module For ADS1606	—	152.00	—	—
ADS1606IPAPT	296-15759-1-ND	16-Bit, 5Msps ADC	64-HTQFP	25.58	23.87	22.17
ADS1606IPAPT	296-15759-2-ND	16-Bit, 5Msps ADC	64-HTQFP	5434.75/250		
ADS1610IPAPT	296-19656-1-ND	16-Bit, 10Msps ADC	64-TQFP	32.93	30.73	28.54
ADS1610IPAPT	296-19656-2-ND	16-Bit, 10Msps ADC	64-TQFP	6996.50/250		
ADS1625EVM	296-18364-ND	Evaluation Module for ADS1625	—	152.00	—	—
ADS1625IPAPT	296-15209-1-ND	18-Bit, 1.25Msps ADC	64-HTQFP	24.68	23.03	21.39
ADS1625IPAPT	296-15209-2-ND	18-Bit, 1.25Msps ADC	64-HTQFP	5243.50/250		
ADS1626EVM	296-16740-ND	Evaluation Module For ADS1626	—	152.00	—	—
ADS1626IPAPT	296-15877-5-ND	18-Bit, 1.25Msps ADC	64-HTQFP	25.58	23.87	22.17
ADS2806-EVM	296-19907-ND	Evaluation Module for ADS2806	—	101.00	—	—
ADS2806Y/250	ADS2806Y/250CT-ND	12-Bit, Dual, High Speed ADC	64-HTQFP	21.15	—	—
ADS2806Y/250	ADS2806Y/250TR-ND	12-Bit, Dual, High Speed ADC	64-HTQFP	4494.50/250		
ADS2807-EVM	296-19908-ND	Evaluation Module for ADS2807	—	101.00	—	—
ADS2807Y/1K5	ADS2807Y/1K5CT-ND	12-Bit, Dual, High Speed ADC	64-HTQFP	27.08	—	—
ADS2807Y/1K5	ADS2807Y/1K5TR-ND	12-Bit, Dual, High Speed ADC	64-HTQFP	33438.00/1,500		
ADS5102EVM	296-19909-ND	Evaluation Module for ADS5102	—	101.00	—	—
ADS5102IPFB	296-13062-ND	1.8V Analog Supply, 10-Bit, 65Msps, ADC with Internal Reference	48-TQFP	12.74	11.48	10.18
ADS5103EVM	296-13539-ND	Evaluation Module for ADS5103	—	101.00	—	—
ADS5103IPFB	296-13063-ND	1.8V Analog Supply, 10-Bit, 40Msps, ADC with Internal Reference	48-TQFP	9.41	8.48	7.52
ADS5120CGHK	ADS5120CGHK-ND	8-Channel, 10-Bit, 40Msps, 1.8V CMOS ADC	257-BGA	54.23	50.61	47.00
ADS5120CZHK	296-19272-ND	8-Channel, 10-Bit, 40Msps, 1.8V CMOS ADC	257-BGA	58.28	54.39	50.51
ADS5121IGHK	296-15074-ND	8-Channel, 10-Bit, 40Msps, 1.8V CMOS ADC	257-BGA	58.28	54.39	50.51
ADS5121IZHK	296-19273-ND	8-Channel, 10-Bit, 40Msps, 1.8V CMOS ADC	257-BGA	58.28	54.39	50.51
ADS5122CGHK	296-15075-ND	8-Channel, 10-Bit, 65Msps, 1.8V CMOS ADC	257-BGA	64.28	59.99	55.71
ADS5122CZHK	296-19274-ND	8-Channel, 10-Bit, 65Msps, 1.8V CMOS ADC	257-BGA	69.15	64.54	59.93
ADS5203IPFB	296-13446-ND	3.3V, 10-Bit, Dual 40Msps Low Power ADC	48-TQFP	16.08	14.48	12.84
ADS5204IPFB	296-13447-ND	3.3V, 10-Bit, Dual 40Msps Low Power ADC with PGA	48-TQFP	16.58	15.47	14.37
ADS5220PFBT	296-16927-1-ND	12-Bit, 40Msps ADC	48-TQFP	16.32	15.24	14.15
ADS5220PFBT	296-16927-2-ND	12-Bit, 40Msps ADC	48-TQFP	3468.00/250		
ADS5221PFBT	296-17557-1-ND	12-Bit, 65Msps ADC	48-TQFP	23.09	21.55	20.01
ADS5221PFBT	296-17557-2-ND	12-Bit, 65Msps ADC	48-TQFP	4905.50/250		
ADS5231IPAG	296-21529-ND	Dual, 12-Bit, 40Msps, 3.3V ADC	64-TQFP	17.63	16.45	15.28
ADS5232IPAG	296-19657-ND	Dual, 12-Bit, 65Msps ADC	64-TQFP	24.00	22.40	20.80
ADS5237IPAG	296-22736-ND	Dual, 10-Bit, 65Msps, ADC **NEW!**	64-TQFP	12.50	11.25	9.98
ADS5240EVM	296-20805-ND	Evaluation Module for ADS5240/42	—	203.00	—	—
ADS5240IPAP	296-17632-ND	12-Bit, 40Msps, 4-Channel ADC	64-HTQFP	30.00	28.00	26.00
ADS5242IPAP	296-18643-ND	12-Bit, 65Msps, 4-Channel ADC	64-HTQFP	45.00	42.00	39.00
ADS5270EVM	296-17408-ND	Evaluation Module for ADS5270	—	203.00	—	—
ADS5270IPFP	296-17091-ND	12-Bit, 40Msps, 8-Ch. ADC	80-HTQFP	66.00	61.60	57.20
ADS5271EVM	296-17409-ND	Evaluation Module for ADS5271	—	203.00	—	—
ADS5271IPFP	296-17153-ND	12-Bit, 50Msps, 8-Channel ADC	80-HTQFP	72.00	67.20	62.40
ADS5272IPFP	296-18605-ND	12-Bit, 65Msps, 8-Channel ADC	80-HTQFP	82.28	76.79	71.31
ADS5273IPFP	296-18606-ND	12-Bit, 70Msps, 8-Channel ADC	80-HTQFP	181.50	169.40	157.30
ADS5277IPFP	296-18309-ND	10-Bit, 65Msps, 8-Channel ADC	80-HTQFP	48.00	44.80	41.60
ADS5281IPFP	296-23032-ND	12-Bit, 50Msps, 8-Ch. ADC **NEW!**	80-HTQFP	72.00	67.20	62.40
ADS5281IRGCT	296-23307-1-ND	12-Bit, 50Msps, 8-Ch. ADC **NEW!**	64-VQFN	72.00	67.20	62.40
ADS5281IRGCT	296-23307-2-ND	12-Bit, 50Msps, 8-Ch. ADC **NEW!**	64-VQFN	15300.00/250		
ADS5282IRGCT	296-23308-1-ND	12-Bit, 65Msps, 8-Ch. ADC **NEW!**	64-VQFN	82.28	76.79	71.31
ADS5282IRGCT	296-23308-2-ND	12-Bit, 65Msps, 8-Ch. ADC **NEW!**	64-VQFN	17483.50/250		
ADS5287IRGCT	296-23339-1-ND	10-Bit, 65Msps, 8-Ch. ADC **NEW!**	64-VQFN	48.00	44.80	41.60
ADS5287IRGCT	296-23339-2-ND	10-Bit, 65Msps, 8-Ch. ADC **NEW!**	64-VQFN	10200.00/250		
ADS5410IPFB	296-13448-ND	12-Bit, 80Msps CommsADC™ ADC	48-TQFP	28.50	26.60	24.70
ADS5411IPJY	296-19394-ND	11-Bit, 105Msps ADC	52-HTQFP	38.25	35.70	33.15
ADS5413IPHP	296-18365-ND	Single 12-Bit, 65Msps IF Sampling ADC	48-HTQFP	23.25	21.70	20.15
ADS5413-11IPHP	296-16972-ND	11-Bit, 65Msps, High IF Sampling ADC	48-TQFP	22.13	20.65	19.18
ADS5421Y/T	ADS5421Y/TCT-ND	14-Bit, 40MHz, LP ADC	64-LQFP	30.23	—	—
ADS5421Y/T	ADS5421Y/TTR-ND	14-Bit, 40MHz, LP ADC	64-LQFP	6422.75/250		
ADS5422Y/250	ADS5422Y/250CT-ND	14-Bit, Sampling ADC	64-LQFP	45.68	—	—
ADS5422Y/250	ADS5422Y/250TR-ND	14-Bit, Sampling ADC	64-LQFP	9706.00/250		
ADS5423EVM	296-17998-ND	Evaluation Board for ADS5423/24	—	118.25	—	—
ADS5423IPJY	296-17802-ND	14-Bit, 80Msps ADC	52-HTQFP	60.00	56.00	52.00

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADS5423MPJYEP	296-22611-ND	14-Bit, 80Msps ADC **NEW!**	52-HTQFP	114.00	106.40	98.80
ADS5424EVM	296-20806-ND	Evaluation Module for ADS5424	—	101.00	—	—
ADS5424IPJY	296-17758-ND	14-Bit, 105Msps ADC	52-HTQFP	84.00	78.40	72.80
ADS5433IPJY	296-19665-ND	14-Bit, 80Msps ADC	52-HTQFP	72.00	67.20	62.40
ADS5440EVM	296-19293-ND	Evaluation Module for ADS5440	—	305.00	—	—
ADS5440IPFP	296-19395-ND	13-Bit, 210Msps ADC	52-HTQFP	63.00	58.80	54.60
ADS5440MPFPEP	296-20672-ND	13-Bit, 210Msps ADC	80-HTQFP	126.00	117.60	109.20
ADS5444EVM	296-19374-ND	Evaluation Module for ADS5444	—	305.00	—	—
ADS5444IPFP	296-19536-ND	13-Bit, 250Msps ADC	80-HTQFP	88.50	82.60	76.70
ADS5444MPFPEP	296-20673-ND	13-Bit, 250Msps ADC	80-HTQFP	177.00	165.20	153.40
ADS5463IPFP	296-21323-ND	12-Bit, 500Msps ADC	80-HTQFP	187.50	175.00	162.50
ADS5474IPFP	296-22004-ND	14-Bit, 400Msps ADC **NEW!**	80-HTQFP	225.00	210.00	195.00
ADS5500EVM	296-18366-ND	Evaluation Module for ADS5500	—	203.00	—	—
ADS5500IPAP	296-16924-ND	14-Bit, 125Msps ADC	64-HTQFP	73.50	68.60	63.70
ADS5500MPAPEP	296-22551-ND	14-Bit, 125Msps ADC **NEW!**	64-HTQFP	139.65	130.34	121.03
ADS5510IPAP	296-21509-ND	11-Bit, 125Msps ADC	64-HTQFP	21.30	19.88	18.46
ADS5517IRGZT	296-22953-1-ND	11-Bit, 200Msps ADC **NEW!**	48-QFN	46.58	43.47	40.37
ADS5517IRGZT	296-22953-2-ND	11-Bit, 200Msps ADC **NEW!**	48-QFN	9897.25/250		
ADS5520EVM	296-20807-ND	Evaluation Module for ADS5520	—	152.00	—	—
ADS5520IPAP	296-17702-ND	12-Bit, 125Msps ADC	64-HTQFP	41.25	38.50	35.75
ADS5521EVM	296-20808-ND	Evaluation Module for ADS5521	—	203.00	—	—
ADS5521IPAP	296-17934-ND	12-Bit, 105Msps ADC	64-HTQFP	34.50	32.20	29.90
ADS5522EVM	296-20809-ND	Evaluation Module for ADS5522	—	203.00	—	—
ADS5522IPAP	296-17826-ND	12-Bit, 80Msps ADC	64-HTQFP	25.05	23.38	21.71
ADS5525IRGZT	296-20739-1-ND	12-Bit, 170Msps ADC	48-QFN	52.50	49.00	45.50
ADS5525IRGZT	296-20739-2-ND	12-Bit, 170Msps ADC	48-QFN	11156.25/250		
ADS5527IRGZT	296-21362-1-ND	12-Bit, 210Msps ADC	48-QFN	70.88	66.15	61.43
ADS5527IRGZT	296-21362-2-ND	12-Bit, 210Msps ADC	48-QFN	15061.00/250		
ADS5541EVM	296-20810-ND	Evaluation Module for ADS5541	—	203.00	—	—
ADS5541IPAP	296-17999-ND	14-Bit, 105Msps ADC	64-HTQFP	61.50	57.40	53.30
ADS5542EVM	296-20811-ND	Evaluation Module for ADS5542	—	203.00	—	—
ADS5542IPAP	296-17852-ND	14-Bit, 80Msps ADC	64-HTQFP	37.50	35.00	32.50
ADS5545EVM	296-19452-ND	Evaluation Module for ADS5545	—	305.00	—	—
ADS5545IRGZT	296-20740-1-ND	14-Bit, 170Msps ADC	48-QFN	93.75	87.50	81.25
ADS5545IRGZT	296-20740-2-ND	14-Bit, 170Msps ADC	48-QFN	19922.00/250		
ADS5546EVM	296-20812-ND	Evaluation Module for ADS5546	—	305.00	—	—
ADS5546IRGZT	296-20632-1-ND	14-Bit, 190Msps ADC with DDR LVDS/CMOS Output	48-QFN	108.75	101.50	94.25
ADS5546IRGZT	296-20632-2-ND	14-Bit, 190Msps ADC with DDR LVDS/CMOS Output	48-QFN	23109.50/250		
ADS5553EVM	296-20813-ND	Evaluation Module for ADS5553	—	305.00	—	—
ADS5553IPFP	296-17827-ND	Dual 14-Bit, 65Msps ADC	80-HTQFP	45.00	42.00	39.00
ADS6122IRHBT	296-22701-1-ND	12-Bit, 65Msps ADC **NEW!**	32-QFN	18.00	16.80	15.60
ADS6122IRHBT	296-22701-2-ND	12-Bit, 65Msps ADC **NEW!**	32-QFN	3825.00/250		
ADS6123IRHBT	296-22702-1-ND	12-Bit, 80Msps ADC **NEW!**	32-QFN	24.75	23.10	21.45
ADS6123IRHBT	296-22702-2-ND	12-Bit, 80Msps ADC **NEW!**	32-QFN	5259.50/250		
ADS6124IRHBT	296-22703-1-ND	12-Bit, 105Msps ADC **NEW!**	32-QFN	34.13	31.85	29.58
ADS6124IRHBT	296-22703-2-ND	12-Bit, 105Msps ADC **NEW!**	32-QFN	7251.50/250		
ADS6125EVM	296-23159-ND	Evaluation Module for ADS6125 **NEW!**	—	305.00	—	—
ADS6125IRHBT	296-22704-1-ND	12-Bit, 125Msps ADC **NEW!**	32-QFN	41.25	38.50	35.75
ADS6125IRHBT	296-22704-2-ND	12-Bit, 125Msps ADC **NEW!**	32-QFN	8765.75/250		
ADS6142IRHBT	296-22737-1-ND	14-Bit, 65Msps ADC with DDR LVDS/CMOS Output **NEW!**	32-QFN	27.98	26.11	24.25
ADS6142IRHBT	296-22737-2-ND	14-Bit, 65Msps ADC with DDR LVDS/CMOS Output **NEW!**	32-QFN	5944.75/250		
ADS6143IRHBT	296-22021-1-ND	14-Bit, 80Msps ADC with DDR LVDS/CMOS Output	32-QFN	8.61	7.76	6.88
ADS6143IRHBT	296-22021-2-ND	14-Bit, 80Msps ADC with DDR LVDS/CMOS Output	32-QFN	7968.75/250		
ADS6145IRHBT	296-22022-1-ND	14-Bit, 125Msps ADC with DDR LVDS/CMOS Output	32-QFN	73.50	68.60	63.70
ADS6145IRHBT	296-22022-2-ND	14-Bit, 125Msps ADC with DDR LVDS/CMOS Output	32-QFN	15618.75/250		
ADS6222IRGZT	296-22664-1-ND	Dual Ch., 12-Bit, 65Msps ADC **NEW!**	48-QFN	27.15	25.34	23.53
ADS6222IRGZT	296-22664-2-ND	Dual Ch., 12-Bit, 65Msps ADC **NEW!**	48-QFN	5769.50/250		
ADS6242IRGZT	296-22005-1-ND	Dual Ch., 14-Bit, 65Msps ADC **NEW!**	48-QFN	52.50	49.00	45.50
ADS6242IRGZT	296-22005-2-ND	Dual Ch., 14-Bit, 65Msps ADC **NEW!**	48-QFN	11156.25/250		
ADS6243IRGZT	296-22006-1-ND	Dual Ch., 14-Bit, 80Msps ADC **NEW!**	48-QFN	56.25	52.50	48.75
ADS6243IRGZT	296-22006-2-ND	Dual Ch., 14-Bit, 80Msps ADC **NEW!**	48-QFN	11953.25/250		
ADS6422IRGCT	296-22080-1-ND	Quad Ch., 12-Bit, 65Msps ADC **NEW!**	64-QFN	51.60	48.16	44.72
ADS6422IRGCT	296-22080-2-ND	Quad Ch., 12-Bit, 65Msps ADC **NEW!**	64-QFN	10965.00/250		
ADS6423IRGCT	296-22081-1-ND	Quad Ch., 12-Bit, 80Msps ADC **NEW!**	64-QFN	71.40	66.64	61.88
ADS6423IRGCT	296-22081-2-ND	Quad Ch., 12-Bit, 80Msps ADC **NEW!**	64-QFN	15172.50/250		
ADS6424IRGCT	296-22082-1-ND	Quad Ch., 12-Bit, 105Msps ADC **NEW!**	64-QFN	93.15	86.94	80.73
ADS6424IRGCT	296-22082-2-ND	Quad Ch., 12-Bit, 105Msps ADC **NEW!**	64-QFN	19794.50/250		
ADS6425IRGCT	296-21696-1-ND	4-Channel, 12-Bit, 125Msps ADC	64-QFN	111.38	103.95	96.53
ADS6425IRGCT	296-21696-2-ND	4-Channel, 12-Bit, 125Msps ADC	64-QFN	23667.25/250		
ADS6442IRGCT	296-21942-1-ND	4-Channel, 14-Bit, 65Msps ADC	64-QFN	99.75	93.10	86.45
ADS6442IRGCT	296-21942-2-ND	4-Channel, 14-Bit, 65Msps ADC	64-QFN	21197.00/250		
ADS6443IRGCT	296-21943-1-ND	4-Channel, 14-Bit, 80Msps ADC	64-QFN	106.88	99.75	92.63
ADS6443IRGCT	296-21943-2-ND	4-Channel, 14-Bit, 80Msps ADC	64-QFN	22711.00/250		
ADS6444IRGCT	296-21944-1-ND	4-Channel, 14-Bit, 105Msps ADC	64-QFN	166.05	154.98	143.91
ADS6444IRGCT	296-21944-2-ND	4-Channel, 14-Bit, 105Msps ADC	64-QFN	35285.75/250		
ADS6445IRGCT	296-21945-1-ND	4-Channel, 14-Bit, 125Msps ADC	64-QFN	198.45	185.22	171.99
ADS6445IRGCT	296-21945-2-ND	4-Channel, 14-Bit, 125Msps ADC	64-QFN	42170.75/250		
ADS7800JP	ADS7800JP-ND	12-Bit, 3μS Sampling ADC	24-Dip	45.08	—	—
ADS7800JU	ADS7800JU-ND	12-Bit, 3μS Sampling ADC	24-SOIC	45.08	—	—
ADS7800KP	ADS7800KP-ND	12-Bit, 3μS Sampling ADC	24-Dip	54.15	—	—
ADS7800KU	ADS7800KU-ND	12-Bit, 3μS Sampling ADC	24-SOIC	54.15	—	—
ADS7804P	ADS7804P-ND	12-Bit, 10μS Sampling CMOS ADC	28-Dip	22.13	—	—
ADS7804PB	ADS7804PB-ND	12-Bit, 10μS Sampling CMOS ADC	28-Dip	29.33	—	—
ADS7804U	ADS7804U-ND	12-Bit, 10μS Sampling CMOS ADC	28-SOIC	21.08	—	—
ADS7804UB	ADS7804UB-ND	12-Bit, 10μS Sampling CMOS ADC	28-SOIC	28.28	—	—
ADS7805EVM	296-20814-ND	Evaluation Module for ADS7805	—	101.00	—	—
ADS7805P	ADS7805P-ND	16-Bit, 10μS Sampling CMOS ADC	28-Dip .3	32.64	—	—
ADS7805PB	296-19910-ND	16-Bit, 10μS Sampling CMOS ADC	28-Dip	43.19	—	—
ADS7805U	ADS7805U-ND	16-Bit, 10μS Sampling CMOS ADC	28-SOIC	31.07	—	—
ADS7805UB	ADS7805UB-ND	16-Bit, 10μS Sampling CMOS ADC	28-SOIC	41.69	—	—
ADS7806P	ADS7806P-ND	LP 12-Bit Sampling CMOS ADC	28-Dip	19.13	—	—
ADS7806U	ADS7806U-ND	LP 12-Bit Sampling CMOS ADC	28-SOIC	19.13	—	—

(Continued)

T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
ADS7807P	ADS7807P-ND	LP 16-Bit Sampling CMOS ADC	28-Dip .3	43.20	—	—
ADS7807PB	ADS7807PB-ND	LP 16-Bit Sampling CMOS ADC	28-Dip	51.38	—	—
ADS7807U	ADS7807U-ND	LP 16-Bit Sampling CMOS ADC	28-SOIC	41.10	—	—
ADS7807UB	ADS7807UB-ND	LP 16-Bit Sampling CMOS ADC	28-SOIC	49.35	—	—
ADS7808U	ADS7808U-ND	12-Bit, 10µS Sampling CMOS ADC	20-SOIC	16.32	15.24	14.15
ADS7808UB	ADS7808UB-ND	12-Bit, 10µS Sampling CMOS ADC	20-SOIC	21.87	20.42	18.96
ADS7809EVM	296-17703-ND	Evaluation Module for ADS7809	—	50.00	—	—
ADS7809U	ADS7809U-ND	16-Bit, 10µS Sampling CMOS ADC	20-SOIC	31.88	29.75	27.63
ADS7809UB	ADS7809UB-ND	16-Bit, 10µS Sampling CMOS ADC	20-SOIC	42.72	39.88	37.03
ADS7810U	ADS7810U-ND	12-Bit, 800kHz Sampling CMOS ADC	28-SOIC	41.70	—	—
ADS7811U	ADS7811U-ND	16-Bit, 250kHz Sampling ADC	28-SOIC	54.23	—	—
ADS7812P	ADS7812P-ND	LP Serial 12-Bit Sampling ADC	16-Dip	18.60	—	—
ADS7812U	ADS7812U-ND	LP Serial 12-Bit Sampling ADC	16-SOIC	17.70	—	—
ADS7813P	ADS7813P-ND	LP Serial 16-Bit Sampling ADC	16-Dip	33.60	—	—
ADS7813U	ADS7813U-ND	LP Serial 16-Bit Sampling ADC	16-SOIC	31.95	—	—
ADS7815U	ADS7815U-ND	16-Bit, 250kHz Sampling CMOS ADC	28-SOIC	31.95	—	—
ADS7816E/250	ADS7816ECT-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP	4.59	—	—
ADS7816E/250	ADS7816ETR-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP		678.25/250	
ADS7816EB/250	ADS7816EBCT-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP	5.45	—	—
ADS7816EB/250	ADS7816EBTR-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP		804.75/250	
ADS7816EC/250	ADS7816ECCT-ND	12-Bit, 200kHz Micropower Sampling ADC	8-MSOP	5.42	—	—
ADS7816EC/250	ADS7816ECTR-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP		880.75/250	
ADS7816EVM	296-19911-ND	Evaluation Module for ADS7816	—	50.00	—	—
ADS7816P	ADS7816P-ND	12-Bit, High Speed Micropower Sampling ADC	8-Dip	4.16	—	—
ADS7816PB	ADS7816PB-ND	12-Bit, High Speed Micropower Sampling ADC	8-Dip	5.02	—	—
ADS7816PC	ADS7816PC-ND	12-Bit, High Speed Micropower Sampling ADC	8-Dip	5.04	—	—
ADS7816U	ADS7816U-ND	12-Bit, High Speed Micropower Sampling ADC	8-SOIC	4.16	—	—
ADS7816UB	ADS7816UB-ND	12-Bit, High Speed Micropower Sampling ADC	8-SOIC	5.02	—	—
ADS7816UC	ADS7816UC-ND	12-Bit, High Speed Micropower Sampling ADC	8-SOIC	5.04	—	—
ADS7817E/250	ADS7817ECT-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP	4.84	—	—
ADS7817E/250	ADS7817ETR-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP		715.00/250	
ADS7817EB/250	ADS7817EBCT-ND	12-Bit, 200kHz Differential Micropower, Sampling ADC	8-MSOP	5.10	—	—
ADS7817EB/250	ADS7817EBTR-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP		828.75/250	
ADS7817EC/250	ADS7817ECCT-ND	12-Bit, 200kHz Differential Micropower, Sampling ADC	8-MSOP	5.70	—	—
ADS7817EC/250	ADS7817ECTR-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP		926.25/250	
ADS7817EVM	296-19912-ND	Evaluation Module for ADS7817	—	50.00	—	—
ADS7817U	ADS7817U-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-SOIC	4.39	—	—
ADS7817UB	ADS7817UB-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-SOIC	4.84	—	—
ADS7817UC	ADS7817UC-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-SOIC	5.30	—	—
ADS7818E/250	ADS7818ECT-ND	12-Bit, 500kHz ADC (±2 LSB)	8-MSOP	5.50	—	—
ADS7818E/250	ADS7818ETR-ND	12-Bit, 500kHz ADC (±2 LSB)	8-MSOP		893.75/250	
ADS7818EB/250	ADS7818EBCT-ND	12-Bit, 500kHz ADC (±1 LSB)	8-MSOP	6.50	—	—
ADS7818EB/250	ADS7818EBTR-ND	12-Bit, 500kHz ADC (±1 LSB)	8-MSOP		1056.25/250	
ADS7818EVM	296-19913-ND	Evaluation Module for ADS7818	—	50.00	—	—
ADS7818P	ADS7818P-ND	12-Bit, 500kHz ADC (±1 LSB)	8-Dip	5.00	—	—
ADS7818PB	ADS7818PB-ND	12-Bit, 500kHz ADC (±1 LSB)	8-Dip	6.00	—	—
ADS7822E/250	ADS7822ECT-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	3.74	—	—
ADS7822E/250	ADS7822ETR-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP		552.00/250	
ADS7822EB/250	ADS7822EBCT-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	4.07	—	—
ADS7822EB/250	ADS7822EBTR-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP		601.75/250	
ADS7822EC/250	ADS7822ECCT-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	4.39	—	—
ADS7822EC/250	ADS7822ECTR-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP		648.50/250	
ADS7822EVM	296-18367-ND	Evaluation Module for ADS7822	—	50.00	—	—
ADS7822P	ADS7822P-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-Dip	3.31	—	—
ADS7822U	ADS7822U-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-SOIC	3.31	—	—
ADS7822UB	ADS7822UB-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-SOIC	3.74	—	—
ADS7822UC	ADS7822UC-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-SOIC	4.07	—	—
ADS7823-28EVM	296-18368-ND	Evaluation Module for ADS7823-28	—	50.00	—	—
ADS7823E/250	ADS7823E/250CT-ND	12-Bit, LP Sampling CMOS ADC	8-MSOP	6.30	5.04	4.26
ADS7823E/250	ADS7823E/250TR-ND	12-Bit, LP Sampling CMOS ADC	8-MSOP		1023.75/250	
ADS7823EB/250	ADS7823EB/250CT-ND	12-Bit, LP Sampling CMOS ADC	8-MSOP	7.50	6.00	5.07
ADS7823EB/250	ADS7823EB/250TR-ND	12-Bit, LP Sampling CMOS ADC	8-MSOP		1218.75/250	
ADS7824P	ADS7824P-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-Dip .3	20.70	—	—
ADS7824PB	ADS7824PB-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-Dip	22.65	—	—
ADS7824U	ADS7824U-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	19.65	—	—
ADS7824UB	ADS7824UB-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	21.68	—	—
ADS7825P	ADS7825P-ND	16-Bit, 4-Ch. Sampling CMOS ADC	28-Dip .3	46.58	—	—
ADS7825U	ADS7825U-ND	16-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	44.33	—	—
ADS7825UB	ADS7825UB-ND	16-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	53.25	—	—
ADS7826EVM	296-18369-ND	Evaluation Module for ADS7826	—	50.00	—	—
ADS7826IDRBT	296-15316-1-ND	10-Bit, 2.7V, Sampling ADC	8-SON	3.15	2.52	1.96
ADS7826IDRBT	296-15316-2-ND	10-Bit, 2.7V, Sampling ADC	8-SON		465.50/250	
ADS7827EVM	296-18370-ND	Evaluation Module for ADS7827	—	50.00	—	—
ADS7827IDRBT	296-15317-1-ND	8-Bit, 2.7V, Sampling ADC	8-SON	2.48	1.98	1.54
ADS7827IDRBT	296-15317-2-ND	8-Bit, 2.7V, Sampling ADC	8-SON		365.75/250	
ADS7828E/250	296-12402-1-ND	12-Bit, 8-Ch. Sampling CMOS ADC	16-TSSOP	7.40	5.92	5.00
ADS7828E/250	296-12402-2-ND	12-Bit, 8-Ch. Sampling CMOS ADC	16-TSSOP		1202.50/250	
ADS7828EB/250	296-12756-1-ND	12-Bit, 8-Ch. Sampling CMOS ADC	16-TSSOP	8.80	7.04	5.94
ADS7828EB/250	296-12756-2-ND	12-Bit, 8-Ch. Sampling CMOS ADC	16-TSSOP		1430.00/250	
ADS7829EVM	296-18371-ND	Evaluation Module for ADS7829	—	50.00	—	—
ADS7829IBDRBT	296-15245-1-ND	12-Bit, 2.7V Sampling HS ADC	8-SON	4.84	3.87	3.01
ADS7829IBDRBT	296-15245-2-ND	12-Bit, 2.7V Sampling HS ADC	8-SON		715.00/250	
ADS7829IDRBT	296-15246-1-ND	12-Bit, 2.7V Sampling HS ADC	8-SON	3.71	2.97	2.31
ADS7829IBDRBT	296-15246-2-ND	12-Bit, 2.7V Sampling HS ADC	8-SON		548.75/250	
ADS7830IPWT	296-16680-1-ND	8-Bit, 8-Channel ADC	16-TSSOP	3.49	2.79	2.17
ADS7830IPWT	296-16680-2-ND	8-Bit, 8-Channel ADC	16-TSSOP		515.50/250	
ADS7834EB/250	ADS7834EBCT-ND	12-Bit, 500kHz LP Sampling ADC	8-MSOP	6.40	—	—
ADS7834EB/250	ADS7834EBTR-ND	12-Bit, 500kHz LP Sampling ADC	8-MSOP		1040.00/250	
ADS7834EVM	296-19914-ND	Evaluation Module for ADS7834	—	50.00	—	—
ADS7835E/250	ADS7835ECT-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±2LSB	8-MSOP	6.10	—	—
ADS7835E/250	ADS7835ETR-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±2LSB	8-MSOP		991.25/250	
ADS7835EB/250	ADS7835EBCT-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±1LSB	8-MSOP	7.20	—	—
ADS7835EB/250	ADS7835EBTR-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±1LSB	8-MSOP		1170.00/250	
ADS7835EQDGKREP	296-22083-1-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±1LSB ***NEW!***	8-MSOP	2.25	1.80	1.40
ADS7835EQDGKREP	296-22083-2-ND	12-Bit, 500kHz Bipolar Sampling ADC, ±1LSB ***NEW!***	8-MSOP		3150.00/2,500	
ADS7835EVM	296-18372-ND	Evaluation Module for ADS7835	—	50.00	—	—
ADS7841E	ADS7841E-ND	12-Bit, 4-Channel Serial Output ADC	16-SSOP	5.36	4.29	3.34
ADS7841EB	ADS7841EB-ND	12-Bit, 4-Channel Serial Output ADC	16-SSOP	5.70	4.56	3.85
ADS7841P	ADS7841P-ND	12-Bit, 4-Channel Serial Output ADC	16-Dip	5.04	4.04	3.41
ADS7841PB	ADS7841PB-ND	12-Bit, 4-Channel Serial Output ADC	16-Dip	5.98	4.79	4.04
ADS7842E	ADS7842E-ND	12-Bit, 4-Ch. Parallel Output ADC	28-SSOP	6.20	4.96	4.19
ADS7842EB	ADS7842EB-ND	12-Bit, 4-Ch. Parallel Output ADC	28-SSOP	7.40	5.92	5.00
ADS7843E	ADS7843E-ND	4-Wire Touch Screen Controller	16-SSOP	3.65	2.92	2.27
ADS7844E	ADS7844E-ND	12-Bit, 8-Channel, 200kHz ADC	20-QSOP	5.52	4.42	3.73
ADS7844E/2K5	ADS7844ETR-ND	12-Bit, 8-Channel, 200kHz ADC	20-QSOP		8555.00/2,500	
ADS7844EB	ADS7844EB-ND	12-Bit, 8-Channel, 200kHz ADC	20-QSOP	6.66	5.33	4.50
ADS7844E/2K5	ADS7844EBTR-ND	12-Bit, 8-Channel, 200kHz ADC	20-QSOP		10322.50/2,500	
ADS7844N	ADS7844N-ND	12-Bit, 8-Channel, 200kHz ADC	20-SSOP	5.52	4.42	3.73
ADS7844NB	ADS7844NB-ND	12-Bit, 8-Channel, 200kHz ADC	20-SSOP	6.66	5.33	4.50
ADS7845E	ADS7845E-ND	5-Wire Touch Screen Controller	16-SSOP	8.40	6.72	5.67
ADS7846E	ADS7846E-ND	4-Wire Touch Screen Controller	16-SSOP	4.39	3.51	2.73
ADS7846IGQCR	296-14470-1-ND	4-Wire Touch Screen Controller	48-VFBGA	5.36	4.29	3.34
ADS7846IGQCR	296-14470-2-ND	4-Wire Touch Screen Controller	48-VFBGA		7497.50/2,500	
ADS7846IRGVT	296-15076-1-ND	4-Wire Touch Screen Controller	16-QFN	4.82	3.86	3.00
ADS7846IRGVT	296-15076-2-ND	4-Wire Touch Screen Controller	16-QFN		711.50/250	
ADS7846N	ADS7846N-ND	4-Wire Touch Screen Controller	16-TSSOP	4.39	3.51	2.73
ADS7852Y/250	ADS7852YCT-ND	8-Channel, 12-Bit, Parallel Output ADC, ±2LSB	32-TQFP	7.50	—	—
ADS7852Y/250	ADS7852YTR-ND	8-Channel, 12-Bit, Parallel Output ADC, ±2LSB	32-TQFP		1218.75/250	
ADS7852YB/250	ADS7852YBCT-ND	8-Channel, 12-Bit, Parallel Output ADC, ±1LSB	32-TQFP	8.90	—	—
ADS7852YB/250	ADS7852YBTR-ND	8-Channel, 12-Bit, Parallel Output ADC, ±1LSB	32-TQFP		1446.25/250	
ADS7861E	ADS7861E-ND	Dual 12-Bit, 500kHz Simult. Sampling Serial ADC	24-SSOP	8.10	—	—
ADS7861EB	ADS7861EB-ND	Dual 12-Bit, 500kHz Simult. Sampling Serial ADC, ±1LSB	24-SSOP	9.80	—	—
ADS7861EVM	296-19915-ND	Evaluation Module for ADS7861	—	50.00	—	—
ADS7861IBRHBT	296-19570-1-ND	Dual 500kHz, 12-Bit ADC	32-QFN	8.83	—	—
ADS7861IBRHBT	296-19570-2-ND	Dual 500kHz, 12-Bit ADC	32-QFN		1689.50/250	
ADS7861IRHBT	296-19571-1-ND	Dual 500kHz, 12-Bit ADC	32-QFN	9.00	—	—
ADS7861IRHBT	296-19571-2-ND	Dual 500kHz, 12-Bit ADC	32-QFN		1462.50/250	
ADS7862Y/250	ADS7862YCT-ND	Dual 12-Bit, 500kHz Simult. Sampling Parallel ADC, ±2LSB	32-TQFP	10.50	—	—
ADS7862Y/250	ADS7862YTR-ND	Dual 12-Bit, 500kHz Simult. Sampling Parallel ADC, ±2LSB	32-TQFP		2008.25/250	
ADS7862YB/250	ADS7862YBCT-ND	Dual 12-Bit, 500kHz Simult. Sampling Parallel ADC, ±1LSB	32-TQFP	12.41	—	—
ADS7862YB/250	ADS7862YBTR-ND	Dual 12-Bit, 500kHz Simult. Sampling Parallel ADC, ±1LSB	32-TQFP		2374.75/250	
ADS7863IDBQ	296-23309-5-ND	Dual, 2MSPS, 12-Bit, 2+2 Ch. Simultaneous Sampling ADC ***NEW!***	24-QSOP	8.91	8.03	7.12
ADS7863IRGET	296-23310-1-ND	Dual, 2MSPS, 12-Bit, 2+2 Ch. Simultaneous Sampling ADC ***NEW!***	24-VQFN	8.91	8.03	7.12
ADS7863IRGET	296-23310-2-ND	Dual, 2MSPS, 12-Bit, 2+2 Ch. Simultaneous Sampling ADC ***NEW!***	24-VQFN		1705.25/250	
ADS7864Y/250	ADS7864YCT-ND	12-Bit, 500kHz, 6-Channel ADC	48-TQFP	12.25	—	—
ADS7864Y/250	ADS7864YTR-ND	12-Bit, 500kHz, 6-Channel ADC	48-TQFP		2342.75/250	
ADS7864YB/250	ADS7864YBCT-ND	12-Bit, 500kHz, 6-Channel ADC	48-TQFP	13.91	—	—
ADS7864YB/250	ADS7864YBTR-ND	12-Bit, 500kHz, 6-Channel ADC	48-TQFP		2661.50/250	
ADS7866IDBVT	296-18216-1-ND	1.2V, 12-Bit, 200Ksps, Mini ADC	SOT-23-6	4.61	3.69	2.87
ADS7866IDBVT	296-18216-2-ND	1.2V, 12-Bit, 200Ksps, Mini ADC	SOT-23-6		681.75/250	
ADS7867IDBVT	296-18217-1-ND	1.2V, 10-Bit, 240Ksps, Mini ADC	SOT-23-6	3.49	2.79	2.17
ADS7867IDBVT	296-18217-2-ND	1.2V, 10-Bit, 240Ksps, Mini ADC	SOT-23-6		515.50/250	
ADS7868IDBVT	296-18218-1-ND	1.2V, 8-Bit, 280Ksps, Mini ADC	SOT-23-6	2.25	1.80	1.35
ADS7868IDBVT	296-18218-2-ND	1.2V, 8-Bit, 280Ksps, Mini ADC	SOT-23-6		315.00/250	
ADS7869IPZTR	296-18373-1-ND	Analog Motor Control Front-End	100-TQFP	21.90	20.44	18.98
ADS7869IPZTR	296-18373-2-ND	Analog Motor Control Front-End	100-TQFP		18031.00/1,000	
ADS7870EA	ADS7870EA-ND	12-Bit, Data Acquisition System	28-SSOP	8.30	—	—
ADS7870EVM	296-18374-ND	Evaluation Module for ADS7870	—	50.00	—	—
ADS7871EVM	296-18375-ND	Evaluation Module for ADS7871	—	50.00	—	—
ADS7871IDB	296-14757-5-ND	14-Bit, 48Ksps DAS with ADC	28-SSOP	8.00	—	—
ADS7881EVM	296-18376-ND	Evaluation Module for ADS7881	—	101.00	—	—
ADS7881IPFBT	296-15779-1-ND	12-Bit, 4Msps, Low Power SAR ADC	48-TQFP	13.49	12.15	10.78
ADS7881IPFBT	296-15779-2-ND	12-Bit, 4Msps, Low Power SAR ADC	48-TQFP		2582.00/250	
ADS7881IRGZT	296-19489-1-ND	12-Bit, 4Msps, Low Power SAR ADC	48-QFN	13.49	12.15	10.78

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADS7881IRGZT	296-19489-2-ND	12-Bit, 4Msps, Low Power SAR ADC	48-QFN	2582.00/250		
ADS7884SDBVT	296-23311-1-ND	10-Bit, 3MSPS *micro*Power, Mini SAR ADC ***NEW!***	SOT-23-6	4.05	3.24	2.52
ADS7884SDBVT	296-23311-2-ND	10-Bit, 3MSPS *micro*Power, Mini SAR ADC ***NEW!***	SOT-23-6	598.50/250		
ADS7885SDBVT	296-23312-1-ND	8-Bit, 3MSPS *micro*Power, Mini SAR ADC ***NEW!***	SOT-23-6	2.36	1.89	1.47
ADS7885SDBVT	296-23312-2-ND	8-Bit, 3MSPS *micro*Power, Mini SAR ADC ***NEW!***	SOT-23-6	349.25/250		
ADS7886EVM	296-19666-ND	Evaluation Module for ADS7886	—	50.00	—	—
ADS7886SBDBVT	296-19305-1-ND	12-Bit, 1Msps *micro*Power, Mini SAR ADC	SOT-23-6	4.84	3.87	3.01
ADS7886SBDBVT	296-19305-2-ND	12-Bit, 1Msps *micro*Power, Mini SAR ADC	SOT-23-6	715.00/250		
ADS7886SBDCKT	296-19306-1-ND	12-Bit, 1Msps *micro*Power, Mini SAR ADC	SC70-6	4.84	3.87	3.01
ADS7886SBDCKT	296-19306-2-ND	12-Bit, 1Msps *micro*Power, Mini SAR ADC	SC70-6	715.00/250		
ADS7886SDBVT	296-19307-1-ND	12-Bit, 1Msps *micro*Power, Mini SAR ADC	SOT-23-6	4.28	3.42	2.66
ADS7886SDBVT	296-19307-2-ND	12-Bit, 1Msps *micro*Power, Mini SAR ADC	SOT-23-6	631.75/250		
ADS7886SDCKT	296-19308-1-ND	12-Bit, 1Msps *micro*Power, Mini SAR ADC	SC70-6	4.28	3.42	2.66
ADS7886SDCKT	296-19308-2-ND	12-Bit, 1Msps *micro*Power, Mini SAR ADC	SC70-6	631.75/250		
ADS7887EVM	296-20815-ND	Evaluation Module for ADS7887	—	50.00	—	—
ADS7887SDBVT	296-18266-1-ND	10-Bit, 1.25Msps *micro*Power, Mini SAR ADC	SOT-23-6	3.71	2.97	2.31
ADS7887SDBVT	296-18266-2-ND	10-Bit, 1.25Msps *micro*Power, Mini SAR ADC	SOT-23-6	548.75/250		
ADS7887SDCKT	296-18267-1-ND	10-Bit, 1.25Msps *micro*Power, Mini SAR ADC	SC70-6	3.71	2.97	2.31
ADS7887SDCKT	296-18267-2-ND	10-Bit, 1.25Msps *micro*Power, Mini SAR ADC	SC70-6	548.75/250		
ADS7888EVM	296-20816-ND	Evaluation Module for ADS7888	—	50.00	—	—
ADS7888SDBVT	296-18268-1-ND	8-Bit, 1.25Msps *micro*Power, Mini SAR ADC	SOT-23-6	2.38	1.90	1.43
ADS7888SDBVT	296-18268-2-ND	8-Bit, 1.25Msps *micro*Power, Mini SAR ADC	SOT-23-6	332.50/250		
ADS7888SDCKT	296-18269-1-ND	8-Bit, 1.25Msps *micro*Power, Mini SAR ADC	SC70-6	2.38	1.90	1.43
ADS7888SDCKT	296-18269-2-ND	8-Bit, 1.25Msps *micro*Power, Mini SAR ADC	SC70-6	332.50/250		
ADS7890IPFBT	296-16681-1-ND	14-Bit, 1.25Msps LP SAR ADC	48-TQFP	15.75	14.70	13.65
ADS7890IPFBT	296-16681-2-ND	14-Bit, 1.25Msps LP SAR ADC	48-TQFP	3347.00/250		
ADS7891EVM	296-17713-ND	Evaluation Module for ADS7891	—	101.00	—	—
ADS7891IPFBT	296-16682-1-ND	14-Bit, 3Msps LP SAR ADC	48-TQFP	17.33	16.17	15.02
ADS7891IPFBT	296-16682-2-ND	14-Bit, 3Msps LP SAR ADC	48-TQFP	3681.50/250		
ADS8317IBDGKT	296-22668-1-ND	16-Bit, HS, 2.7V to 5.5V *micro*Power Sampling ADC ***NEW!***	8-MSOP	12.41	11.18	9.91
ADS8317IBDGKT	296-22668-2-ND	16-Bit, HS, 2.7V to 5.5V *micro*Power Sampling ADC ***NEW!***	8-MSOP	2374.75/250		
ADS8317IDGKT	296-22669-1-ND	16-Bit, HS, 2.7V to 5.5V *micro*Power Sampling ADC ***NEW!***	8-MSOP	9.16	8.25	7.32
ADS8317IDGKT	296-22669-2-ND	16-Bit, HS, 2.7V to 5.5V *micro*Power Sampling ADC ***NEW!***	8-MSOP	1753.25/250		
ADS8320E/250	ADS8320ECT-ND	16-Bit, 2.7V to 5V *micro*Power Serial ADC, ±2LSB	8-MSOP	9.03	8.13	7.21
ADS8320E/250	ADS8320ETR-ND	16-Bit, 2.7V to 5V *micro*Power Serial ADC, ±2LSB	8-MSOP	1727.75/250		
ADS8320EB/250	ADS8320EBCT-ND	16-Bit, 2.7V to 5V *micro*Power Serial ADC, ±1LSB	8-MSOP	10.21	9.20	8.16
ADS8320EB/250	ADS8320EBTR-ND	16-Bit, 2.7V to 5V *micro*Power Serial ADC, ±1LSB	8-MSOP	1954.00/250		
ADS8320EVM	296-19916-ND	Evaluation Module for ADS8320	—	50.00	—	—
ADS8321E/250	ADS8321ECT-ND	16-Bit, 100kHz Bipolar ADC	8-MSOP	9.50	8.55	7.59
ADS8321E/250	ADS8321ETR-ND	16-Bit, 100kHz Bipolar ADC	8-MSOP	1817.00/250		
ADS8321EB/250	ADS8321EBCT-ND	16-Bit, 100kHz Bipolar ADC	8-MSOP	10.75	9.68	8.58
ADS8321EB/250	ADS8321EBTR-ND	16-Bit, 100kHz Bipolar ADC	8-MSOP	2056.00/250		
ADS8321EVM	296-18377-ND	Evaluation Module for ADS8321	—	50.00	—	—
ADS8322EVM	296-19917-ND	Evaluation Module for ADS8322	—	101.00	—	—
ADS8322Y/250CT	ADS8322Y/250CT-ND	16-Bit, 500kHz Unipolar ADC	32-TQFP	13.08	—	—
ADS8322Y/250TR	ADS8322Y/250TR-ND	16-Bit, 500kHz Unipolar ADC	32-TQFP	2502.25/250		
ADS8322Y/2KCT	ADS8322Y/2KCT-ND	16-Bit, 500kHz Unipolar ADC	32-TQFP	11.83	—	—
ADS8322Y/2KTR	ADS8322Y/2KTR-ND	16-Bit, 500kHz Unipolar ADC	32-TQFP	17538.00/2,000		
ADS8322YB/250	296-13772-1-ND	16-Bit, 500kHz, *micro*Power Sampling ADC	32-TQFP	15.99	—	—
ADS8322YB/250	296-13772-2-ND	16-Bit, 500kHz, *micro*Power Sampling ADC	32-TQFP	3060.00/250		
ADS8323EVM	296-19918-ND	Evaluation Module for ADS8323	—	101.00	—	—
ADS8323YB/250	ADS8323YB/250CT-ND	16-Bit, High Speed Bipolar ADC	32-TQFP	15.99	—	—
ADS8323YB/250	ADS8323YB/250TR-ND	16-Bit, High Speed Bipolar ADC	32-TQFP	3060.00/250		
ADS8323Y/250	ADS8323Y/250CT-ND	16-Bit, High Speed Bipolar ADC	32-TQFP	13.08	—	—
ADS8323Y/250	ADS8323Y/250TR-ND	16-Bit, High Speed Bipolar ADC	32-TQFP	2502.25/250		
ADS8324E/250	296-13064-1-ND	14-Bit, High Speed, 1.8V, *micro*Power Sampling ADC	8-MSOP	9.20	7.36	6.21
ADS8324E/250	296-13064-2-ND	14-Bit, High Speed, 1.8V, *micro*Power Sampling ADC	8-MSOP	1495.00/250		
ADS8324EVM	296-19919-ND	Evaluation Module for ADS8324	—	50.00	—	—
ADS8325EVM	296-18378-ND	Evaluation Module for ADS8325	—	50.00	—	—
ADS8325IBDGKT	ADS8325IBDGKTCT-ND	16-Bit, HS, 2.7V to 5.5V ADC	8-MSOP	11.71	10.55	9.35
ADS8325IBDGKT	ADS8325IBDGKTTR-ND	16-Bit, HS, 2.7V to 5.5V ADC	8-MSOP	2240.75/250		
ADS8325IBDRBT	296-15722-1-ND	16-Bit, HS, 2.7V to 5.5V ADC	8-SON	11.71	10.55	9.35
ADS8325IBDRBT	296-15722-2-ND	16-Bit, HS, 2.7V to 5.5V ADC	8-SON	2240.75/250		
ADS8325IDGKT	296-19859-1-ND	16-Bit, HS, 2.7V to 5.5V ADC	8-MSOP	10.30	9.27	8.22
ADS8325IDGKT	296-19859-2-ND	16-Bit, HS, 2.7V to 5.5V ADC	8-MSOP	1970.00/250		
ADS8325IDRBT	296-19860-1-ND	16-Bit, HS, 2.7V to 5.5V ADC	8-SON	10.30	9.27	8.22
ADS8325IDRBT	296-19860-2-ND	16-Bit, HS, 2.7V to 5.5V ADC	8-SON	1970.00/250		
ADS8326IBDGKT	296-21946-1-ND	16-Bit, HS, 2.7V to 5.5V *micro*Power Sampling ADC	8-MSOP	12.41	11.18	9.91
ADS8326IBDGKT	296-21946-2-ND	16-Bit, HS, 2.7V to 5.5V *micro*Power Sampling ADC	8-MSOP	2374.75/250		
ADS8326IDGKT	296-21947-1-ND	16-Bit, HS, 2.7V to 5.5V *micro*Power Sampling ADC	8-MSOP	9.16	8.25	7.32
ADS8326IDGKT	296-21947-2-ND	16-Bit, HS, 2.7V to 5.5V *micro*Power Sampling ADC	8-MSOP	1753.25/250		
ADS8327IBPW	296-19763-ND	16-Bit, 500Ksps LP ADC	16-TSSOP	17.93	16.73	15.54
ADS8327IBRSAT	296-21530-1-ND	16-Bit, 500Ksps LP ADC	16-QFN	19.20	17.92	16.64
ADS8327IBRSAT	296-21530-2-ND	16-Bit, 500Ksps LP ADC	16-QFN	4080.00/250		
ADS8327IPW	296-19764-ND	16-Bit, 500Ksps LP ADC	16-TSSOP	14.16	12.75	11.31
ADS8327IRSAT	296-21531-1-ND	16-Bit, 500Ksps LP ADC	16-QFN	15.58	14.03	12.44
ADS8327IRSAT	296-21531-2-ND	16-Bit, 500Ksps LP ADC	16-QFN	2980.25/250		
ADS8328IBPW	296-19765-ND	Dual, LP, 16-Bit, 500Ksps ADC	16-TSSOP	19.13	17.85	16.58
ADS8328IBRSAT	296-21532-1-ND	Dual, LP, 16-Bit, 500Ksps ADC	16-QFN	20.55	19.18	17.81
ADS8328IBRSAT	296-21532-2-ND	Dual, LP, 16-Bit, 500Ksps ADC	16-QFN	4367.00/250		
ADS8328IPW	296-19766-ND	Dual, LP, 16-Bit, 500Ksps ADC	16-TSSOP	15.49	13.95	12.37
ADS8328IRSAT	296-21533-1-ND	Dual, LP, 16-Bit, 500Ksps ADC	16-QFN	15.38	14.35	13.33
ADS8328IRSAT	296-21533-2-ND	Dual, LP, 16-Bit, 500Ksps ADC	16-QFN	3267.25/250		
ADS8329IBRSAT	296-21363-1-ND	16-Bit, 1MHz Single Unipolar ADC	16-QFN	23.33	21.77	20.22
ADS8329IBRSAT	296-21363-2-ND	16-Bit, 1MHz Single Unipolar ADC	16-QFN	4956.50/250		
ADS8329IRSAT	296-21364-1-ND	16-Bit, 1MHz Single Unipolar ADC	16-QFN	17.70	16.52	15.34
ADS8329IRSAT	296-21364-2-ND	16-Bit, 1MHz Single Unipolar ADC	16-QFN	3761.25/250		
ADS8330IBRSAT	296-21365-1-ND	16-Bit, 1MHz Dual Unipolar ADC	16-QFN	24.53	22.89	21.26
ADS8330IBRSAT	296-21365-2-ND	16-Bit, 1MHz Dual Unipolar ADC	16-QFN	5211.50/250		
ADS8330IRSAT	296-21366-1-ND	16-Bit, 1MHz Dual Unipolar ADC	16-QFN	18.60	17.36	16.12
ADS8330IRSAT	296-21366-2-ND	16-Bit, 1MHz Dual Unipolar ADC	16-QFN	3952.50/250		
ADS8341E	ADS8341E-ND	16-Bit, 4-Channel, Serial ADC	16-SSOP	12.33	—	—
ADS8341EB	ADS8341EB-ND	16-Bit, 4-Channel, Serial ADC	16-SSOP	14.24	—	—
ADS8342EVM	296-18379-ND	Evaluation Module for ADS8342	—	101.00	—	—
ADS8342IBPFBT	296-15077-1-ND	16-Bit, 4-Ch. Parallel Output ADC	48-TQFP	22.05	20.58	19.11
ADS8342IBPFBT	296-15077-2-ND	16-Bit, 4-Ch. Parallel Output ADC	48-TQFP	4685.75/250		
ADS8342IPFBT	296-15078-1-ND	16-Bit, 4-Ch. Parallel Output ADC	48-TQFP	18.68	17.43	16.19
ADS8342IPFBT	296-15078-2-ND	16-Bit, 4-Ch. Parallel Output ADC	48-TQFP	3968.50/250		
ADS8343E	ADS8343E-ND	16-Bit, 4-Channel, Serial ADC	16-SSOP	12.41	—	—
ADS8343EB	ADS8343EB-ND	16-Bit, 4-Channel, Serial ADC	16-SSOP	14.33	—	—
ADS8344E	ADS8344E-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-QSOP	13.33	—	—
ADS8344EB	ADS8344EB-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-QSOP	15.99	—	—
ADS8344EVM	296-19920-ND	Evaluation Module for ADS8344	—	50.00	—	—
ADS8344N	ADS8344N-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-SSOP	13.33	—	—
ADS8344NB	ADS8344NB-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-SSOP	15.99	—	—
ADS8345EVM	296-19921-ND	Evaluation Module for ADS8345	—	50.00	—	—
ADS8345NB	296-11626-5-ND	16-Bit, 8-Channel ADC	20-SSOP	15.99	—	—
ADS8361EVM	296-19922-ND	Evaluation Module for ADS8361	—	50.00	—	—
ADS8361IDBQ	296-13812-5-ND	Dual, 500kHz, 16-Bit, Simultaneous Sampling ADC	24-QSOP	14.58	13.13	11.64
ADS8361IRHBT	296-17411-1-ND	Dual, 500kHz, 16-Bit, Simultaneous Sampling ADC	32-QFN	16.08	14.48	12.84
ADS8361IRHBT	296-17411-2-ND	Dual, 500kHz, 16-Bit, Simultaneous Sampling ADC	32-QFN	3076.00/250		
ADS8364Y/250	296-13449-1-ND	16-Bit, 250Ksps, 6-Ch. Simultaneous Sampling ADC	64-TQFP	29.93	27.93	25.94
ADS8364Y/250	296-13449-2-ND	16-Bit, 250Ksps, 6-Ch. Simultaneous Sampling ADC	64-TQFP	6359.06/250		
ADS8365IPAGR	296-20741-1-ND	16-Bit, 250Ksps 6-Channel SAR ADC	64-TQFP	24.38	22.75	21.13
ADS8365IPAGR	296-20741-2-ND	16-Bit, 250Ksps 6-Channel SAR ADC	64-TQFP	30103.50/1,500		
ADS8370IBRHPT	296-18270-ND	Evaluation Module for ADS8370	—	101.00	—	—
ADS8370IBRHPT	296-18271-1-ND	16-Bit, 600kHz Pseudo-Diff. Input, ADC	28-QFN	28.13	26.25	24.38
ADS8370IBRHPT	296-18271-2-ND	16-Bit, 600kHz Pseudo-Diff. Input, ADC	28-QFN	5976.50/250		
ADS8370IRHPT	296-18272-1-ND	16-Bit, 600kHz Pseudo-Diff. Input, ADC	28-QFN	20.63	19.25	17.88
ADS8370IRHPT	296-18272-2-ND	16-Bit, 600kHz Pseudo-Diff. Input, ADC	28-QFN	4382.75/250		
ADS8371EVM	296-17122-ND	Evaluation Module for ADS8371	—	101.00	—	—
ADS8371IBPFBT	296-16683-1-ND	16-Bit, 750kHz ADC	48-TQFP	24.15	22.54	20.93
ADS8371IBPFBT	296-16683-2-ND	16-Bit, 750kHz ADC	48-TQFP	5132.00/250		
ADS8371IPFBT	296-16684-1-ND	16-Bit, 750kHz ADC	48-TQFP	18.00	16.80	15.60
ADS8371IPFBT	296-16684-2-ND	16-Bit, 750kHz ADC	48-TQFP	3825.00/250		
ADS8372EVM	296-18273-ND	Evaluation Module for ADS8372	—	101.00	—	—
ADS8372IBRHPT	296-18274-1-ND	16-Bit, 600kHz Fully-Diff. Pseudo-Bipolar Input, ADC	28-QFN	29.70	27.72	25.74
ADS8372IBRHPT	296-18274-2-ND	16-Bit, 600kHz Fully-Diff. Pseudo-Bipolar Input, ADC	28-QFN	6311.25/250		
ADS8372IRHPT	296-18275-1-ND	16-Bit, 600kHz Fully-Diff. Pseudo-Bipolar Input, ADC	28-QFN	21.45	20.02	18.59
ADS8372IRHPT	296-18275-2-ND	16-Bit, 600kHz Fully-Diff. Pseudo-Bipolar Input, ADC	28-QFN	4558.25/250		
ADS8380EVM	296-18380-ND	Evaluation Module for ADS8380	—	101.00	—	—
ADS8380IBRHPT	296-17633-1-ND	18-Bit, 600kHz ADC	28-QFN	33.60	31.36	29.12
ADS8380IBRHPT	296-17633-2-ND	18-Bit, 600kHz ADC	28-QFN	7140.00/250		
ADS8380IRHPT	296-17634-1-ND	18-Bit, 600kHz ADC	28-QFN	27.23	25.41	23.60
ADS8380IRHPT	296-17634-2-ND	18-Bit, 600kHz ADC	28-QFN	5785.25/250		
ADS8381EVM	296-17397-ND	Evaluation Module for ADS8381	—	101.00	—	—
ADS8381IBPFBT	296-16685-1-ND	18-Bit, 580kHz ADC	48-TQFP	32.48	30.31	28.15
ADS8381IBPFBT	296-16685-2-ND	18-Bit, 580kHz ADC	48-TQFP	6901.00/250		
ADS8381IPFBT	296-16686-1-ND	18-Bit, 580kHz ADC	48-TQFP	27.53	25.69	23.86
ADS8381IPFBT	296-16686-2-ND	18-Bit, 580kHz ADC	48-TQFP	5849.00/250		
ADS8382EVM	296-17514-ND	Evaluation Module for ADS8382	—	101.00	—	—
ADS8382IBRHPT	296-17519-1-ND	18-Bit, 600kHz MPU Sampling ADC	28-QFN	35.18	32.83	30.49
ADS8382IBRHPT	296-17519-2-ND	18-Bit, 600kHz MPU Sampling ADC	28-QFN	7474.75/250		
ADS8382IRHPT	296-17520-1-ND	18-Bit, 600kHz MPU Sampling ADC	28-QFN	27.98	26.11	24.25
ADS8382IRHPT	296-17520-2-ND	18-Bit, 600kHz MPU Sampling ADC	28-QFN	5944.75/250		
ADS8383EVM	296-18381-ND	Evaluation Module for ADS8383	—	101.00	—	—
ADS8383IBPFBT	296-14065-1-ND	18-Bit, 500kHz Unipolar Input ADC	48-TQFP	31.73	29.61	27.50
ADS8383IBPFBT	296-14065-2-ND	18-Bit, 500kHz Unipolar Input ADC	48-TQFP	6741.50/250		
ADS8383IPFBT	296-14066-1-ND	18-Bit, 500kHz Unipolar Input ADC	48-TQFP	23.63	22.05	20.48
ADS8383IPFBT	296-14066-2-ND	18-Bit, 500kHz Unipolar Input ADC	48-TQFP	5020.25/250		
ADS8401EVM	296-18382-ND	Evaluation Module for ADS8401	—	101.00	—	—
ADS8401IBPFBT	296-14067-1-ND	16-Bit, 1.25Msps Unipolar Input ADC	48-TQFP	34.88	32.55	30.23
ADS8401IBPFBT	296-14067-2-ND	16-Bit, 1.25Msps Unipolar Input ADC	48-TQFP	7411.00/250		
ADS8401IPFBT	296-14068-1-ND	16-Bit, 1.25Msps Unipolar Input ADC	48-TQFP	20.78	19.39	18.01
ADS8401IPFBT	296-14068-2-ND	16-Bit, 1.25Msps Unipolar Input ADC	48-TQFP	4414.75/250		
ADS8402EVM	296-18383-ND	Evaluation Module for ADS8402	—	152.00	—	—

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADS8402IBPFBT	296-14069-1-ND	16-Bit, 1.25Msps Unipolar Input ADC	48-TQFP	36.53	34.09	31.66
ADS8402IBPFBT	296-14069-2-ND	16-Bit, 1.25Msps Unipolar Input ADC	48-TQFP	7761.50/250		
ADS8402IPFBT	296-14070-1-ND	16-Bit, 1.25Msps Unipolar Input ADC	48-TQFP	21.75	20.30	18.85
ADS8402IPFBT	296-14070-2-ND	16-Bit, 1.25Msps Unipolar Input ADC	48-TQFP	4622.00/250		
ADS8405EVM	296-17635-ND	Evaluation Module for ADS8405	—	101.00	—	—
ADS8405IBPFBT	296-17636-1-ND	16-Bit, 1.25Msps ADC	48-TQFP	37.43	34.93	32.44
ADS8405IBPFBT	296-17636-2-ND	16-Bit, 1.25Msps ADC	48-TQFP	7952.75/250		
ADS8405IPFBT	296-17637-1-ND	16-Bit, 1.25Msps ADC	48-TQFP	23.33	21.77	20.22
ADS8405IPFBT	296-17637-2-ND	16-Bit, 1.25Msps ADC	48-TQFP	4956.50/250		
ADS8406EVM	296-17410-ND	Evaluation Module for ADS8406	—	101.00	—	—
ADS8406IBPFBT	296-17355-ND	16-Bit, 1.25Msps Sampling ADC	48-TQFP	39.00	36.40	33.80
ADS8406IPFBT	296-17356-ND	16-Bit, 1.25Msps Sampling ADC	48-TQFP	24.30	22.68	21.06
ADS8410IBRGZT	296-19453-1-ND	16-Bit, 2Msps, LVDS Serial Interface, SAR ADC	48-QFN	49.20	45.92	42.64
ADS8410IBRGZT	296-19453-2-ND	16-Bit, 2Msps, LVDS Serial Interface, SAR ADC	48-QFN	10455.00/250		
ADS8410IRGZT	296-19454-1-ND	16-Bit, 2Msps, LVDS Serial Interface, SAR ADC	48-QFN	37.95	35.42	32.89
ADS8410IRGZT	296-19454-2-ND	16-Bit, 2Msps, LVDS Serial Interface, SAR ADC	48-QFN	8064.50/250		
ADS8411EVM	296-18384-ND	Evaluation Module for ADS8411	—	101.00	—	—
ADS8411IBPFBT	296-15252-1-ND	16-Bit, 2Msps Unipolar Input ADC	48-TQFP	47.55	44.38	41.21
ADS8411IBPFBT	296-15252-2-ND	16-Bit, 2Msps Unipolar Input ADC	48-TQFP	10104.50/250		
ADS8411IPFBT	296-15253-1-ND	16-Bit, 2Msps Unipolar Input ADC	48-TQFP	36.30	33.88	31.46
ADS8411IPFBT	296-15253-2-ND	16-Bit, 2Msps Unipolar Input ADC	48-TQFP	7713.75/250		
ADS8412EVM	296-18385-ND	Evaluation Module for ADS8412	—	152.00	—	—
ADS8412IBPFBT	296-15254-1-ND	16-Bit, 2Msps Unipolar Differential Input ADC	48-TQFP	49.80	46.48	43.16
ADS8412IBPFBT	296-15254-2-ND	16-Bit, 2Msps Unipolar Differential Input ADC	48-TQFP	10582.50/250		
ADS8412IPFBT	296-15255-1-ND	16-Bit, 2Msps Unipolar Differential Input ADC	48-TQFP	38.10	35.56	33.02
ADS8412IPFBT	296-15255-2-ND	16-Bit, 2Msps Unipolar Differential Input ADC	48-TQFP	8096.25/250		
ADS8413IBRGZT	296-19396-1-ND	16-Bit, 2Msps, LVDS Serial Interface SAR ADC	48-QFN	51.53	48.09	44.66
ADS8413IBRGZT	296-19396-2-ND	16-Bit, 2Msps, LVDS Serial Interface SAR ADC	48-QFN	10949.00/250		
ADS8413IRGZT	296-19397-1-ND	16-Bit, 2Msps, LVDS Serial Interface SAR ADC	48-QFN	39.75	37.10	34.45
ADS8413IRGZT	296-19397-2-ND	16-Bit, 2Msps, LVDS Serial Interface SAR ADC	48-QFN	8447.00/250		
ADS8422EVM	296-23030-ND	Evaluation Module for ADS8422 ***NEW!***	—	101.00	—	—
ADS8422IBPFBT	296-21325-1-ND	16-Bit, 4Msps ADC	48-TQFP	49.73	46.41	43.10
ADS8422IBPFBT	296-21325-2-ND	16-Bit, 4Msps ADC	48-TQFP	10566.50/250		
ADS8422IPFBT	296-21326-1-ND	16-Bit, 4Msps ADC	48-TQFP	37.73	35.21	32.70
ADS8422IPFBT	296-21326-2-ND	16-Bit, 4Msps ADC	48-TQFP	8016.50/250		
ADS8471IBRGZT	296-23012-1-ND	16-Bit, 1Msps, Pseudo-Bipolar, Unipolar Input, Sampling ADC ***NEW!***	48-QFN	31.58	29.47	27.37
ADS8471IBRGZT	296-23012-2-ND	16-Bit, 1Msps, Pseudo-Bipolar, Unipolar Input, Sampling ADC ***NEW!***	48-QFN	6709.75/250		
ADS8471IRGZT	296-23013-1-ND	16-Bit, 1Msps, Pseudo-Bipolar, Unipolar Input, Sampling ADC ***NEW!***	48-QFN	24.38	22.75	21.13
ADS8471IRGZT	296-23013-2-ND	16-Bit, 1Msps, Pseudo-Bipolar, Unipolar Input, Sampling ADC ***NEW!***	48-QFN	5179.75/250		
ADS8472IBRGZT	296-21367-1-ND	16-Bit, 1Msps, Pseudo-Bipolar, Fully Differential ADC	48-QFN	35.85	33.46	31.07
ADS8472IBRGZT	296-21367-2-ND	16-Bit, 1Msps, Pseudo-Bipolar, Fully Differential ADC	48-QFN	7618.25/250		
ADS8472IRGZT	296-21368-1-ND	16-Bit, 1Msps, Pseudo-Bipolar, Fully Differential ADC	48-QFN	27.60	25.76	23.92
ADS8472IRGZT	296-21368-2-ND	16-Bit, 1Msps, Pseudo-Bipolar, Fully Differential ADC	48-QFN	5865.00/250		
ADS8481IBRGZT	296-19658-1-ND	18-Bit, 1Msps ADC	48-QFN	42.90	40.04	37.18
ADS8481IBRGZT	296-19658-2-ND	18-Bit, 1Msps ADC	48-QFN	9116.25/250		
ADS8481IRGZT	296-19659-1-ND	18-Bit, 1Msps ADC	48-QFN	32.70	30.52	28.34
ADS8481IRGZT	296-19659-2-ND	18-Bit, 1Msps ADC	48-QFN	6948.75/250		
ADS8482IBRGZT	296-19861-1-ND	18-Bit, 1Msps, Pseudo-Bipolar, Fully Diff. Input ADC	48-QFN	40.58	37.87	35.17
ADS8482IBRGZT	296-19861-2-ND	18-Bit, 1Msps, Pseudo-Bipolar, Fully Diff. Input ADC	48-QFN	8622.25/250		
ADS8482IRGZT	296-19862-1-ND	18-Bit, 1Msps, Pseudo-Bipolar, Fully Diff. Input ADC	48-QFN	30.38	28.35	26.33
ADS8482IRGZT	296-19862-2-ND	18-Bit, 1Msps, Pseudo-Bipolar, Fully Diff. Input ADC	48-QFN	6454.75/250		
ADS8484IBRGZT	296-23014-1-ND	18-Bit, 1.25Msps, Pseudo-Bipolar, Fully Diff. Input Sampling ADC ***NEW!***	48-QFN	46.35	43.26	40.17
ADS8484IBRGZT	296-23014-2-ND	18-Bit, 1.25Msps, Pseudo-Bipolar, Fully Diff. Input Sampling ADC ***NEW!***	48-QFN	9849.50/250		
ADS8484IRGZT	296-23015-1-ND	18-Bit, 1.25Msps, Pseudo-Bipolar, Fully Diff. Input Sampling ADC ***NEW!***	48-QFN	35.10	32.76	30.42
ADS8484IRGZT	296-23015-2-ND	18-Bit, 1.25Msps, Pseudo-Bipolar, Fully Diff. Input Sampling ADC ***NEW!***	48-QFN	7458.75/250		
ADS8504IBDW	296-18219-5-ND	12-Bit, 250Ksps Sampling CMOS ADC	28-SOIC	15.75	14.70	13.65
ADS8505EVM	296-20817-ND	Evaluation Module for ADS8505	—	101.00	—	—
ADS8505IBDB	296-18675-5-ND	16-Bit, 250Ksps Sampling CMOS ADC	28-SSOP	26.93	25.13	23.34
ADS8505IBDW	296-18676-5-ND	16-Bit, 250Ksps Sampling CMOS ADC	28-SOIC	26.93	25.13	23.34
ADS8505IDB	296-18677-5-ND	16-Bit, 250Ksps Sampling CMOS ADC	28-SSOP	19.43	18.13	16.84
ADS8505IDW	296-18678-5-ND	16-Bit, 250Ksps Sampling CMOS ADC	28-SOIC	19.43	18.13	16.84
ADS8506IBDW	296-22954-5-ND	12-Bit, 40Ksps, Low Power Sampling ADC ***NEW!***	28-SOIC	14.16	12.75	11.31
ADS8506IDW	296-22955-5-ND	12-Bit, 40Ksps, Low Power Sampling ADC ***NEW!***	28-SOIC	11.66	10.50	9.31
ADS8507IBDW	296-21369-5-ND	16-Bit, 40Ksps, LP Sampling ADC	28-SOIC	27.00	25.20	23.40
ADS8507IDW	296-21370-5-ND	16-Bit, 40Ksps, LP Sampling ADC	28-SOIC	19.50	18.20	16.90
ADS8508IBDW	296-18679-5-ND	12-Bit, 250Ksps Serial CMOS Sampling ADC	20-SOIC	14.93	13.93	12.94
ADS8509EVM	296-20818-ND	Evaluation Module for ADS8509	—	50.00	—	—
ADS8509IBDB	296-18084-5-ND	16-Bit, 250Ksps Serial CMOS ADC	28-SSOP	22.43	20.93	19.44
ADS8509IBDW	296-18085-5-ND	16-Bit, 250Ksps Serial CMOS ADC	20-SOIC	22.43	20.93	19.44
ADS8509IDB	296-18086-5-ND	16-Bit, 250Ksps Serial CMOS ADC	28-SSOP	14.93	13.93	12.94
ADS8509IDW	296-18087-5-ND	16-Bit, 250Ksps Serial CMOS ADC	20-SOIC	14.93	13.93	12.94
ADS8513IBDW	296-23165-5-ND	16-Bit, 40ksps, Low Power Sampling ADC ***NEW!***	16-SOIC	25.50	23.80	22.10
ADS8513IDW	296-23166-5-ND	16-Bit, 40ksps, Low Power Sampling ADC ***NEW!***	16-SOIC	18.00	16.80	15.60
ADS8515IBDB	296-21985-5-ND	16-Bit, 250ksps Sampling CMOS ADC	28-SSOP	25.43	23.73	22.04
ADS8515IDB	296-21986-5-ND	16-Bit, 250ksps Sampling CMOS ADC	28-SSOP	16.43	15.33	14.24
ADS8519IBDB	296-23199-5-ND	16-Bit, 250ksps Serial CMOS Sampling ADC ***NEW!***	28-SSOP	28.43	26.53	24.64
ADS8519IDB	296-23200-5-ND	16-Bit, 250ksps Serial CMOS Sampling ADC ***NEW!***	28-SSOP	19.43	18.13	16.84
AFE1230E	AFE1230E-ND	G.SHDSL/HDSL2 Analog Front End	28-SSOP	22.95	21.42	19.89
AFE8406IZDQ	296-19537-ND	14-Bit, 85Msps Dual ADC, 8-Channel Wideband Receiver	484-BGA	96.00	89.60	83.20
DDC101U	DDC101U-ND	20-Bit, ADC	24-SOIC	43.55	—	—
DDC112U	DDC112U-ND	20-Bit, 2-Channel, I-Input ADC	28-SOIC	18.15	—	—
DDC112UK	DDC112UK-ND	20-Bit, 2-Channel, I-Input ADC	28-SOIC	23.40	—	—
DDC112Y/250	296-16747-1-ND	20-Bit Dual Current Input ADC	32-TQFP	20.10	—	—
DDC112Y/250	296-16747-2-ND	20-Bit Dual Current Input ADC	32-TQFP	4271.25/250		
DDC114IRTCT	296-17162-1-ND	20-Bit Quad Input ADC	48-QFN	27.00	25.20	23.40
DDC114IRTCT	296-17162-2-ND	20-Bit Quad Input ADC	48-QFN	5737.50/250		
DDC118IRTCT	296-18258-1-ND	20-Bit Octal Current ADC	48-QFN	52.80	49.28	45.76
DDC118IRTCT	296-18258-2-ND	20-Bit Octal Current ADC	48-QFN	11220.00/250		
DDC232CGXGT	296-21225-1-ND	32-Channel, Current Input ADC	64-BGA	105.00	98.00	91.00
DDC232CGXGT	296-21225-2-ND	32-Channel, Current Input ADC	64-BGA	22312.50/250		
DEM-CIB	296-18428-ND	Eval. Fixture Computer Interface Board	—	502.92	—	—
MSC1200Y2PFBT	296-16792-1-ND	Precision ADC/DAC Converter with 8051 Microcontroller	48-TQFP	10.91	9.83	8.72
MSC1200Y2PFBT	296-16792-2-ND	Precision ADC/DAC Converter with 8051 Microcontroller	48-TQFP	2087.75/250		
MSC1200Y3PFBT	296-16793-1-ND	Precision ADC/DAC Converter with 8051 Microcontroller	48-TQFP	11.83	10.65	9.45
MSC1200Y3PFBT	296-16793-2-ND	Precision ADC/DAC Converter with 8051 Microcontroller	48-TQFP	2263.25/250		
MSC1201Y3RHHT	296-18074-1-ND	Precision, ADC/DAC with 8051 Microcontroller and Flash Memory	36-QFN	10.91	9.83	8.72
MSC1201Y3RHHT	296-18074-2-ND	Precision, ADC/DAC with 8051 Microcontroller and Flash Memory	36-QFN	2087.75/250		
MSC1202Y2RHHT	296-17956-1-ND	Precision, ADC/DAC with 8051 Microcontroller and Flash Memory	36-QFN	8.50	7.65	6.79
MSC1202Y2RHHT	296-17956-2-ND	Precision, ADC/DAC with 8051 Microcontroller and Flash Memory	36-QFN	1625.75/250		
MSC1202Y3RHHT	296-18075-1-ND	Precision, ADC/DAC with 8051 Microcontroller and Flash Memory	36-QFN	9.08	8.18	7.25
MSC1202Y3RHHT	296-18075-2-ND	Precision, ADC/DAC with 8051 Microcontroller and Flash Memory	36-QFN	1737.25/250		
MSC1210Y2PAGT	MSC1210Y2PAGT-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	14.91	13.43	11.91
MSC1210Y3PAGT	MSC1210Y3PAGT-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	16.13	15.05	13.98
MSC1210Y4PAGT	MSC1210Y4PAGT-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	16.13	15.05	13.98
MSC1210Y5PAGT	MSC1210Y5PAGT-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	18.00	16.80	15.60
MSC1211Y2PAGT	296-14759-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	26.25	24.50	22.75
MSC1211Y2PAGT	296-14759-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	5578.25/250		
MSC1211Y3PAGT	296-14760-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	26.93	25.13	23.34
MSC1211Y3PAGT	296-14760-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	5721.50/250		
MSC1211Y4PAGT	296-14761-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	29.03	27.09	25.16
MSC1211Y4PAGT	296-14761-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	6167.75/250		
MSC1211Y5PAGT	296-14762-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	31.43	29.33	27.24
MSC1211Y5PAGT	296-14762-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	6677.75/250		
MSC1212Y2PAGT	296-14763-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	25.43	23.73	22.04
MSC1212Y2PAGT	296-14763-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	5402.75/250		
MSC1212Y3PAGT	296-14764-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	26.33	24.57	22.82
MSC1212Y3PAGT	296-14764-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	5594.00/250		
MSC1212Y4PAGT	296-14765-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	28.28	26.39	24.51
MSC1212Y4PAGT	296-14765-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	6008.50/250		
MSC1212Y5PAGT	296-14766-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	33.68	31.43	29.19
MSC1212Y5PAGT	296-14766-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	7156.00/250		
MSC1213Y2PAGT	296-17429-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	18.98	17.71	16.45
MSC1213Y2PAGT	296-17429-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	4032.25/250		
MSC1213Y3PAGT	296-17430-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	19.80	18.48	17.16
MSC1213Y3PAGT	296-17430-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	4207.50/250		
MSC1213Y4PAGT	296-17431-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	21.68	20.23	18.79
MSC1213Y4PAGT	296-17431-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	4606.00/250		
MSC1213Y5PAGT	296-17432-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	23.93	22.33	20.74
MSC1213Y5PAGT	296-17432-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	5084.00/250		
MSC1214Y2PAGT	296-17433-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	18.23	17.01	15.80
MSC1214Y2PAGT	296-17433-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	3872.75/250		
MSC1214Y3PAGT	296-17434-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	19.05	17.78	16.51
MSC1214Y3PAGT	296-17434-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	4048.25/250		
MSC1214Y4PAGT	296-17435-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	20.93	19.53	18.14

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MSC1214Y4PAGT	296-17435-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	4446.50/250		
MSC1214Y5PAGT	296-17436-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	23.18	21.63	20.09
MSC1214Y5PAGT	296-17436-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	4924.75/250		
THS14F01IPFB	296-2843-ND	14-Bit, 1Msps, 1-Ch. 3.3V DSP Compatible ADC with FIFO	48-TQFP	16.08	14.48	12.84
THS14F03IPFB	296-2845-ND	14-Bit, 3Msps, 1-Ch. 3.3V DSP Compatible ADC with FIFO	48-TQFP	18.90	17.64	16.38
THS0842EVM	296-9998-ND	Evaluation Module for THS0842	—	101.00	—	—
THS0842IPFB	296-2171-ND	8-Bit, 40Msps, 2-Channel 3.3V Parallel ADC	48-TQFP	8.41	7.58	6.72
THS1007IDA	296-2823-5-ND	10-Bit, 6Msps, 4-Channel 5V Parallel ADC	32-TSSOP	8.70	6.96	5.88
THS1009IDA	296-2825-5-ND	10-Bit, 8Msps, 2-Ch. Parallel ADC	32-TSSOP	7.50	6.00	5.07
THS1030CDW	296-2173-5-ND	10-Bit, 30Msps, 3V~5.5V ADC	28-SOIC	7.50	6.00	5.07
THS1030EVM	296-10003-ND	Evaluation Module for THS1030	—	101.00	—	—
THS1030IDW	296-2826-5-ND	10-Bit, 30Msps, 3V~5.5V ADC	28-SOIC	8.00	6.40	5.40
THS1030IPW	296-2827-5-ND	10-Bit, 30Msps, 3V~5.5V ADC	28-TSSOP	8.00	6.40	5.40
THS1031CDW	296-2174-5-ND	10-Bit, 30Msps, 3V~5.5V ADC	28-SOIC	8.20	6.56	5.54
THS1031EVM	296-10004-ND	Evaluation Module for THS1031	—	101.00	—	—
THS1031IDW	296-2828-5-ND	10-Bit, 30Msps, 3V~5.5V ADC	28-SOIC	8.90	7.12	6.01
THS1031IPW	296-2829-5-ND	10-Bit, 30Msps, 3V~5.5V ADC	28-TSSOP	8.90	7.12	6.01
THS1040IDW	296-13329-5-ND	3V, 10-Bit, 40Msps CMOS ADC	28-SOIC	9.16	8.25	7.32
THS1040IPW	296-13330-5-ND	3V, 10-Bit, 40Msps CMOS ADC	28-TSSOP	9.16	8.25	7.32
THS1041IDW	296-13331-5-ND	10-Bit, 40Msps ADC with PGA and Clamp	28-SOIC	9.75	8.78	7.79
THS1041IPW	296-13332-5-ND	10-Bit, 40Msps ADC with PGA and Clamp	28-TSSOP	9.75	8.78	7.79
THS1060CPHP	296-2175-ND	10-Bit, 60Msps, 1-Channel, 5V IF Sampling ADC	48-TQFP	9.58	7.67	6.47
THS1206CDA	296-2176-5-ND	12-Bit, 6Msps, 4-Channel, 3-5V IF Sampling ADC	32-TSSOP	12.99	11.70	10.38
THS1206IDA	296-2833-5-ND	12-Bit, 6Msps, 4-Channel, 3-5V IF Sampling ADC	32-TSSOP	15.33	13.80	12.24
THS1206M-EVM	296-16737-ND	Evaluation Module for THS1206M	—	50.00	—	—
THS1207IDA	296-2834-5-ND	12-Bit, 6Msps, 4-Channel 5V IF Sampling ADC	32-TSSOP	14.33	12.90	11.44
THS1209IDA	296-2836-5-ND	12-Bit, 8Msps, 2-Channel 8V IF Sampling ADC	32-TSSOP	15.49	13.95	12.37
THS1215IDW	296-10010-5-ND	12-Bit, 15Msps, LP ADC w/ENOB	28-SOIC	15.75	14.70	13.65
THS1215IPW	296-10011-5-ND	12-Bit, 15Msps, LP ADC w/ENOB	28-TSSOP	14.58	13.13	11.64
THS1230IDW	296-2837-5-ND	12-Bit, 30Msps, 3.3V 1-Ch. ADC	28-SOIC	20.33	18.97	17.62
THS1230IPW	296-2838-5-ND	12-Bit, 30Msps, 3.3V 1-Ch. ADC	28-TSSOP	16.95	15.82	14.69
THS1240IPHP	296-2839-ND	12-Bit, 40Msps, 5V IF Sampling ADC	48-HTQFP	22.14	20.67	19.19
THS1401IPFB	296-2840-ND	14-Bit, 1Msps, 1-Channel 3.3V ADC with Reference	48-TQFP	14.83	13.35	11.84
THS1401QPHPEP	296-18130-1-ND	14-Bit, 1Msps, 1-Channel 3.3V ADC with Reference	48-HTQFP	20.91	19.52	18.13
THS1401QPHPEP	296-18130-2-ND	14-Bit, 1Msps, 1-Channel 3.3V ADC with Reference	48-HTQFP	4443.50/250		
THS1403IPFB	296-2841-ND	14-Bit, 3Msps, 1-Channel 3.3V ADC with Reference	48-TQFP	16.58	15.47	14.37
THS1403QPHP	296-10016-ND	14-Bit, 3Msps ADC	48-HTQFP	19.05	17.78	16.51
THS1403QPHPEP	296-18131-1-ND	14-Bit, 3Msps, 1-Channel 3.3V ADC with Reference	48-HTQFP	25.91	24.18	22.46
THS1403QPHPEP	296-18131-2-ND	14-Bit, 3Msps, 1-Channel 3.3V ADC with Reference	48-HTQFP	5504.75/250		
THS1408IPFB	296-2842-ND	14-Bit, 8Msps, 4-Channel 3.3V ADC with Reference	48-TQFP	22.28	20.79	19.31
THS1408MPHPEP	296-18132-1-ND	14-Bit, 8Msps, 4-Channel 3.3V ADC with Reference	48-HTQFP	27.14	25.33	23.52
THS1408MPHPEP	296-18132-2-ND	14-Bit, 8Msps, 4-Channel 3.3V ADC with Reference	48-HTQFP	5766.25/250		
THS10064CDA	296-2172-5-ND	10-Bit, 6Msps, 4-Channel, 3-5V Sampling ADC	32-TSSOP	8.30	6.64	5.61
THS10064IDA	296-2822-5-ND	10-Bit, 6Msps, 4-Channel, 3-5V Sampling ADC	32-TSSOP	9.80	7.84	6.62
THS10082IDA	296-2824-5-ND	10-Bit, 8Msps 2-Ch. Parallel ADC	32-TSSOP	8.70	6.96	5.88
THS12082IDA	296-2835-5-ND	12-Bit, 8Msps 2-Ch. Parallel ADC	32-TSSOP	16.49	14.85	13.17
TLC0820ACDB	296-2846-5-ND	8-Bit, ADC Modified Flash Converter	20-SSOP	4.07	3.26	2.54
TLC0820ACDBR	296-2846-1-ND	8-Bit, ADC Modified Flash Converter	20-SSOP	4.07	3.26	2.54
TLC0820ACDBR	296-2846-2-ND	8-Bit, ADC Modified Flash Converter	20-SSOP	4616.00/2,000		
TLC0820ACDW	296-2847-5-ND	8-Bit, ADC Modified Flash Converter	20-SOIC	4.07	3.26	2.54
TLC0820ACFN	296-2848-5-ND	8-Bit, ADC Modified Flash Converter	20-PLCC	4.07	3.26	2.54
TLC0820ACN	296-2849-5-ND	8-Bit, ADC Modified Flash Converter	20-Dip	4.28	3.42	2.66
TLC0820AIDW	296-2850-5-ND	8-Bit, ADC Modified Flash Converter	20-SOIC	4.39	3.51	2.73
TLC0820AIFN	296-2851-5-ND	8-Bit, ADC Modified Flash Converter	20-PLCC	4.39	3.51	2.73
TLC0820AIN	296-2852-5-ND	8-Bit, ADC Modified Flash Converter	20-Dip	4.59	3.68	2.86
TLC0831CD	296-2853-5-ND	8-Bit, 31Ksps, 1-Ch. 5V Serial ADC	8-SOIC	2.99	2.40	1.87
TLC0831CP	296-2854-5-ND	8-Bit, 31Ksps, 1-Ch. 5V Serial ADC	8-Dip	3.22	2.58	2.01
TLC0831ID	296-2855-5-ND	8-Bit, 31Ksps, 1-Ch. 5V Serial ADC	8-SOIC	3.22	2.58	2.01
TLC0831IP	296-2856-5-ND	8-Bit, 31Ksps, 1-Ch. 5V Serial ADC	8-Dip	3.42	2.74	2.13
TLC0832CD	296-2857-5-ND	8-Bit, 22Ksps, 2-Ch. 5V Serial ADC	8-SOIC	2.99	2.40	1.87
TLC0832CP	296-2858-5-ND	8-Bit, 22Ksps, 2-Ch. 5V Serial ADC	8-Dip	2.99	2.40	1.87
TLC0832ID	296-2859-5-ND	8-Bit, 22Ksps, 2-Ch. 5V Serial ADC	8-SOIC	3.22	2.58	2.01
TLC0832IP	296-2860-5-ND	8-Bit, 22Ksps, 2-Ch. 5V Serial ADC	8-Dip	3.22	2.58	2.01
TLC0834CD	296-2861-5-ND	8-Bit, 20Ksps, 4-Ch. 5V Serial ADC	14-SOIC	3.11	2.49	1.94
TLC0834CN	296-2862-5-ND	8-Bit, 20Ksps, 4-Ch. 5V Serial ADC	14-Dip	3.31	2.65	2.06
TLC0834ID	296-2863-5-ND	8-Bit, 20Ksps, 4-Ch. 5V Serial ADC	14-SOIC	3.31	2.65	2.06
TLC0834IN	296-2864-5-ND	8-Bit, 20Ksps, 4-Ch. 5V Serial ADC	14-Dip	3.53	2.83	2.20
TLC0838CDW	296-2865-5-ND	8-Bit, 20Ksps, 8-Ch. 5V Serial ADC	20-SOIC	3.11	2.49	1.94
TLC0838CN	296-2866-5-ND	8-Bit, 20Ksps, 8-Ch. 5V Serial ADC	20-Dip	3.31	2.65	2.06
TLC0838IDW	296-2867-5-ND	8-Bit, 20Ksps, 8-Ch. 5V Serial ADC	20-SOIC	3.31	2.65	2.06
TLC0838IN	296-2868-5-ND	8-Bit, 20Ksps, 8-Ch. 5V Serial ADC	20-Dip	3.53	2.83	2.20
TLC0838IPW	296-2869-5-ND	8-Bit, 20Ksps, 8-Ch. 5V Serial ADC	20-TSSOP	3.31	2.65	2.06
TLC540IDW	296-2919-5-ND	8-Bit, 75Ksps, 12-Ch. 5V Serial ADC	20-SOIC	3.96	3.17	2.47
TLC540IFN	296-2920-5-ND	8-Bit, 75Ksps, 12-Ch. 5V Serial ADC	20-PLCC	3.96	3.17	2.47
TLC540IN	296-2921-5-ND	8-Bit, 75Ksps, 12-Ch. 5V Serial ADC	20-Dip	3.96	3.17	2.47
TLC541IDW	296-2922-5-ND	8-Bit, 40Ksps, 11-Ch. 5V Serial ADC	20-SOIC	3.38	2.70	2.10
TLC541IFN	296-2923-5-ND	8-Bit, 40Ksps, 11-Ch. 5V Serial ADC	20-PLCC	3.38	2.70	2.10
TLC541IFNR	296-1331-1-ND	8-Bit, 40Ksps, 11-Ch. 5V Serial ADC	20-PLCC	3.38	2.70	2.10
TLC541IFNR	296-1331-2-ND	8-Bit, 40Ksps, 11-Ch. 5V Serial ADC	20-PLCC	1913.00/1,000		
TLC541IN	296-1850-5-ND	8-Bit, 40Ksps, 11-Ch. 5V Serial ADC	20-Dip	3.38	2.70	2.10
TLC542CDW	296-1332-5-ND	8-Bit, 25Ksps, 11-Ch. 5V Serial ADC	20-SOIC	3.22	2.58	2.01
TLC542CDWR	296-1332-1-ND	8-Bit, 25Ksps, 11-Ch. 5V Serial ADC	20-SOIC	3.22	2.58	2.01
TLC542CDWR	296-1332-2-ND	8-Bit, 25Ksps, 11-Ch. 5V Serial ADC	20-SOIC	3646.00/2,000		
TLC542CN	296-2924-5-ND	8-Bit, 25Ksps, 11-Ch. 5V Serial ADC	20-Dip	3.22	2.58	2.01
TLC542IDW	296-1333-5-ND	8-Bit, 25Ksps, 11-Ch. 5V Serial ADC	20-SOIC	3.42	2.74	2.13
TLC542IDWR	296-1333-1-ND	8-Bit, 25Ksps, 11-Ch. 5V Serial ADC	20-SOIC	3.42	2.74	2.13
TLC542IDWR	296-1333-2-ND	8-Bit, 25Ksps, 11-Ch. 5V Serial ADC	20-SOIC	3876.00/2,000		
TLC542IFN	296-1334-5-ND	8-Bit, 25Ksps, 11-Ch. 5V Serial ADC	20-PLCC	3.42	2.74	2.13
TLC542IFNR	296-1334-1-ND	8-Bit, 25Ksps, 11-Ch. 5V Serial ADC	20-PLCC	3.42	2.74	2.13
TLC542IFNR	296-1334-2-ND	8-Bit, 25Ksps, 11-Ch. 5V Serial ADC	20-PLCC	1938.00/1,000		
TLC542IN	296-2927-5-ND	8-Bit, 25Ksps, 11-Ch. 5V Serial ADC	20-Dip	3.65	2.92	2.27
TLC545CFN	296-2928-5-ND	8-Bit, 76Ksps, 19-Ch. 5V Serial ADC	28-PLCC	6.20	4.96	4.19
TLC545CN	296-2929-5-ND	8-Bit, 76Ksps, 19-Ch. 5V Serial ADC	28-Dip	6.50	5.20	4.39
TLC545IFN	296-2930-5-ND	8-Bit, 76Ksps, 19-Ch. 5V Serial ADC	28-PLCC	6.60	5.28	4.46
TLC545IN	296-2931-5-ND	8-Bit, 76Ksps, 19-Ch. 5V Serial ADC	28-Dip	7.00	5.60	4.73
TLC548CD	296-2934-5-ND	8-Bit, 45.5Ksps, 1-Ch. 3-6V Serial ADC	8-SOIC	2.70	2.16	1.68
TLC548CP	296-2935-5-ND	8-Bit, 45.5Ksps, 1-Ch. 3-6V Serial ADC	8-Dip	2.93	2.34	1.82
TLC548ID	296-2936-5-ND	8-Bit, 45.5Ksps, 1-Ch. 3-6V Serial ADC	8-SOIC	2.93	2.34	1.82
TLC548IP	296-2937-5-ND	8-Bit, 45.5Ksps, 1-Ch. 3-6V Serial ADC	8-Dip	3.04	2.43	1.89
TLC549CD	296-1335-5-ND	8-Bit, 40Ksps, 1-Ch. 3-6V Serial ADC	8-SOIC	2.25	1.80	1.35
TLC549CDR	296-1335-1-ND	8-Bit, 40Ksps, 1-Ch. 3-6V Serial ADC	8-SOIC	2.25	1.80	1.35
TLC549CDR	296-1335-2-ND	8-Bit, 40Ksps, 1-Ch. 3-6V Serial ADC	8-SOIC	2880.00/2,500		
TLC549CP	296-1853-5-ND	8-Bit, 40Ksps, 1-Ch. 3-6V Serial ADC	8-Dip	2.38	1.90	1.43
TLC549ID	296-1854-5-ND	8-Bit, 40Ksps, 1-Ch. 3-6V Serial ADC	8-SOIC	2.25	1.80	1.40
TLC549IP	296-1855-5-ND	8-Bit, 40Ksps, 1-Ch. 3-6V Serial ADC	8-Dip	2.36	1.89	1.47
TLC1514ID	296-2180-5-ND	10-Bit, 400Ksps, 4-Ch. 5V Serial ADC	16-SOIC	5.80	4.64	3.92
TLC1514IPW	296-2870-5-ND	10-Bit, 400Ksps, 4-Ch. 5V Serial ADC	16-TSSOP	5.80	4.64	3.92
TLC1518IDW	296-2181-5-ND	10-Bit, 400Ksps, 8-Ch. 5V Serial ADC	20-SOIC	6.90	5.52	4.66
TLC1518IPW	296-2871-5-ND	10-Bit, 400Ksps, 8-Channel 5V Serial ADC	20-TSSOP	6.90	5.52	4.66
TLC1541CDW	296-2872-5-ND	10-Bit, 32Ksps, 11-Ch. 5V Serial ADC	20-SOIC	6.40	5.12	4.32
TLC1541CFN	296-2873-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-PLCC	6.40	5.12	4.32
TLC1541CN	296-2874-5-ND	10-Bit, 32Ksps, 11-Ch. 5V Serial ADC	20-Dip	6.80	5.44	4.59
TLC1541IDW	296-2875-5-ND	10-Bit, 32Ksps, 11-Ch. 5V Serial ADC	20-SOIC	6.90	5.52	4.66
TLC1541IN	296-2182-5-ND	10-Bit, 32Ksps, 11-Ch. 5V Serial ADC	20-Dip	7.30	5.84	4.93
TLC1541IFN	296-2876-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-PLCC	6.90	5.52	4.66
TLC1542CDW	296-2877-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-SOIC	5.00	4.00	3.38
TLC1542CFN	296-2878-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-PLCC	5.00	4.00	3.38
TLC1542CN	296-2879-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-Dip	5.00	4.00	3.38
TLC1542IDW	296-2880-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-SOIC	5.40	4.32	3.65
TLC1542IN	296-2881-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-Dip	5.40	4.32	3.65
TLC1542QFN	296-2882-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-PLCC	6.20	4.96	4.19
TLC1543CDB	296-2883-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-SSOP	4.07	3.26	2.54
TLC1543CDW	296-1804-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-SOIC	4.07	3.26	2.54
TLC1543CDWR	296-1804-1-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-SOIC	4.07	3.26	2.54
TLC1543CDWR	296-1804-2-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-SOIC	4616.00/2,000		
TLC1543CFN	296-1805-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-PLCC	4.07	3.26	2.54
TLC1543CN	296-2885-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-Dip	4.28	3.42	2.66
TLC1543IDW	296-2886-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-SOIC	4.28	3.42	2.66
TLC1543IFN	296-2887-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-PLCC	4.28	3.42	2.66
TLC1543IN	296-2888-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-Dip	4.50	3.60	2.80
TLC1543QDB	296-2889-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-SSOP	4.93	3.95	3.07
TLC1543QDW	296-2890-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-SOIC	4.93	3.95	3.07
TLC1543QDWREP	296-18138-1-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-SOIC	5.44	4.36	3.68
TLC1543QDWREP	296-18138-2-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-SOIC	6800.00/2,000		
TLC1543QFN	296-2891-5-ND	10-Bit, 38Ksps, 11-Ch. 5V Serial ADC	20-PLCC	4.93	3.95	3.07
TLC1549CD	296-2892-5-ND	10-Bit, 38Ksps, 1-Ch. 5V Serial ADC	8-SOIC	4.05	3.24	2.52
TLC1549CP	296-1806-5-ND	10-Bit, 38Ksps, 1-Ch. 5V Serial ADC	8-Dip	4.28	3.42	2.66
TLC1549ID	296-2893-5-ND	10-Bit, 38Ksps, 1-Ch. 5V Serial ADC	8-SOIC	4.39	3.51	2.73
TLC1549IP	296-2894-5-ND	10-Bit, 38Ksps, 1-Ch. 5V Serial ADC	8-Dip	4.61	3.69	2.87
TLC1550IDW	296-2895-5-ND	10-Bit, 164Ksps, 10-Ch. 5V Parallel Out ADC	24-SOIC	7.80	6.24	5.27
TLC1551IDW	296-2896-5-ND	10-Bit, 164Ksps, 10-Ch. 5V Parallel Out ADC	24-SOIC	6.70	5.36	4.53
TLC2543CDB	296-2897-5-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC	20-SSOP	8.46	6.77	5.72
TLC2543CDW	296-1307-5-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC	20-SOIC	8.46	6.77	5.72
TLC2543CDWR	296-1307-1-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC	20-SOIC	8.46	6.77	5.72
TLC2543CDWR	296-1307-2-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC	20-SOIC	10576.00/2,000		
TLC2543CFN	296-2898-5-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC	20-PLCC	8.46	6.77	5.72
TLC2543CN	296-1816-5-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC	20-Dip	8.46	6.77	5.72
TLC2543IDB	296-2899-5-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC	20-SSOP	9.02	7.22	6.09
TLC2543IDW	296-2900-5-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC	20-SOIC	9.02	7.22	6.09
TLC2543IFN	296-2901-5-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC	20-PLCC	9.02	7.22	6.09
TLC2543IN	296-1817-5-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC	20-Dip	9.02	7.22	6.09
TLC2543MDBREP	296-22412-1-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC ***NEW!***	20-SSOP	15.03	13.53	12.00
TLC2543MDBREP	296-22412-2-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC ***NEW!***	20-SSOP	22280.00/2,000		
TLC2543QDWREP	296-22413-1-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC ***NEW!***	20-SOIC	10.76	9.69	8.60
TLC2543QDWREP	296-22413-2-ND	12-Bit, 66Ksps, 11-Ch. 5V Serial ADC ***NEW!***	20-SOIC	15956.00/2,000		
TLC2551EVM	296-20571-ND	Evaluation Module for TLC2551	—	50.00	—	—
TLC2551ID	296-2909-5-ND	12-Bit, 400Ksps, 1-Ch. 5V Serial ADC	8-SOIC	8.40	6.72	5.67
TLC2551IDGK	296-2910-5-ND	12-Bit, 400Ksps, 1-Ch. 5V Serial ADC	8-MSOP	8.40	6.72	5.67
TLC2552EVM	296-20572-ND	Evaluation Module for TLC2552	—	50.00	—	—
TLC2552ID	296-2911-5-ND	12-Bit, 400Ksps, 2-Ch. 5V Serial ADC	8-SOIC	8.40	6.72	5.67
TLC2552IDGK	296-2912-5-ND	12-Bit, 400Ksps, 1-Ch. 5V Serial ADC	8-MSOP	8.40	6.72	5.67
TLC2554ID	296-2913-5-ND	12-Bit, 400Ksps, 4-Ch. 5V Serial ADC	16-SOIC	10.08	9.08	8.05
TLC2554IPW	296-2914-5-ND	12-Bit, 400Ksps, 4-Ch. 5V Serial ADC	16-TSSOP	9.50	8.55	7.59
TLC2555EVM	296-20573-ND	Evaluation Module for TLC2555	—	50.00	—	—
TLC2555ID	296-2915-5-ND	12-Bit, 400Ksps, 1-Ch. 5V Serial ADC	8-SOIC	8.40	6.72	5.67
TLC2555IDGK	296-2916-5-ND	12-Bit, 400Ksps, 1-Ch. 5V Serial ADC	8-MSOP	8.40	6.72	5.67
TLC2558IDW	296-2917-5-ND	12-Bit, 400Ksps, 8-Channel 5V Serial ADC	20-SOIC	9.50	8.55	7.59
TLC2558IPW	296-2918-5-ND	12-Bit, 400Ksps, 8-Channel 5V Serial ADC	20-TSSOP	9.50	8.55	7.59
TLC2574EVM	296-18897-ND	Evaluation Module for TLC2574	—	50.00	—	—
TLC2574IDW	296-10255-5-ND	12-Bit, 200Ksps, 4-Channel Serial Out ADC	20-SOIC	8.83	7.95	7.05

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC2574IPW	296-10256-5-ND	12-Bit, 200Ksps, 4-Channel Serial Out ADC	20-TSSOP	8.83	7.95	7.05
TLC2578EVM	296-18898-ND	Evaluation Module for TLC2578	—	50.00	—	—
TLC2578IDW	296-10257-5-ND	12-Bit, 200Ksps, 8-Channel Serial Out ADC	24-SOIC	9.66	8.70	7.72
TLC2578IPW	296-10258-5-ND	12-Bit, 200Ksps, 8-Channel Serial Out ADC	24-TSSOP	9.66	8.70	7.72
TLC3541EVM	296-20574-ND	Evaluation Module for TLC3541	—	50.00	—	—
TLC3541ID	296-12498-5-ND	5V, Low Power, 14-Bit, 200Ksps Serial ADC with Auto Power Down	8-SOIC	8.33	7.50	6.65
TLC3541IDGK	296-13505-5-ND	5V, Low Power, 14-Bit, 200Ksps Serial ADC with Auto Power Down	8-MSOP	8.33	7.50	6.65
TLC3544EVM	296-18899-ND	Evaluation Module for TLC3544	—	50.00	—	—
TLC3544IDW	296-10288-5-ND	14-Bit, 200Ksps, 4-Ch. Unipolar ADC	20-SOIC	10.32	9.68	8.58
TLC3544IPW	296-10289-5-ND	14-Bit, 200Ksps, 4-Channel Unipolar ADC	20-TSSOP	10.32	9.68	8.58
TLC3545EVM	296-20575-ND	Evaluation Module for TLC3545	—	50.00	—	—
TLC3545ID	296-12499-5-ND	14-Bit, 5V, 200Ksps, LP Serial ADC	8-SOIC	8.33	7.50	6.65
TLC3545IDGK	296-13506-5-ND	5V, Low Power, 14-Bit, 200Ksps Serial ADC with Auto Power Down	8-MSOP	8.33	7.50	6.65
TLC3548EVM	296-18900-ND	Evaluation Module for TLC3548	—	50.00	—	—
TLC3548IDW	296-10290-5-ND	14-Bit, 200Ksps, 8-Ch. Unipolar ADC	24-SOIC	11.41	10.28	9.12
TLC3548IPW	296-10291-5-ND	14-Bit, 200Ksps, 8-Channel Unipolar ADC	20-TSSOP	11.41	10.28	9.12
TLC3574EVM	296-18901-ND	Evaluation Module for TLC3574	—	50.00	—	—
TLC3574IDW	296-10296-5-ND	14-Bit, 200Ksps, 4-Channel LP ADC	20-SOP	11.41	10.28	9.12
TLC3574IPW	296-10297-5-ND	14-Bit, 200Ksps, 4-Ch. LP ADC	20-TSSOP	11.41	10.28	9.12
TLC3578EVM	296-18902-ND	Evaluation Module for TLC3578	—	50.00	—	—
TLC3578IDW	296-10298-5-ND	14-Bit, 200Ksps, 8-Channel LP ADC	24-SOIC	14.41	12.98	11.51
TLC3578IPW	296-10299-5-ND	14-Bit, 200Ksps, 8-Channel LP ADC	24-TSSOP	14.41	12.98	11.51
TLC4541EVM	296-13563-ND	Evaluation Module for TLC4541	—	50.00	—	—
TLC4541ID	296-12500-5-ND	16-Bit, 5V, 200Ksps, LP Serial ADC	8-SOIC	11.41	10.28	9.12
TLC4541IDGK	296-13825-5-ND	16-Bit, 5V, 200Ksps, LP Serial ADC	8-MSOP	11.41	10.28	9.12
TLC4545EVM	296-20576-ND	Evaluation Module for TLC4545	—	50.00	—	—
TLC4545ID	296-12501-5-ND	16-Bit, 5V, 200Ksps, LP Serial ADC	8-SOIC	11.41	10.28	9.12
TLC4545IDGK	296-12746-5-ND	16-Bit, 5V, 200Ksps, LP Serial ADC	8-MSOP	11.41	10.28	9.12
TLC5510AINS	296-2938-5-ND	8-Bit, 20Msps 1-Channel 5.0V High Speed Serial ADC	24-SOP	5.02	4.02	3.13
TLC5510EVM	296-10332-ND	Evaluation Module for TLC5510	—	50.00	—	—
TLC5510INS	296-2939-5-ND	8-Bit, 20Msps 1-Channel 5.0V High Speed Serial ADC	24-SOP	5.02	4.02	3.13
TLC5510INSR	296-2939-1-ND	8-Bit, 20Msps 1-Channel 5.0V High Speed Serial ADC	24-SOP	5.02	4.02	3.13
TLC5510INSR	296-2939-2-ND	8-Bit, 20Msps 1-Channel 5.0V High Speed Serial ADC	24-SOP	5686.00/2,000		
TLC5510IPW	296-2183-5-ND	8-Bit, 20Msps 1-Channel 5.0V High Speed Serial ADC	24-TSSOP	5.02	4.02	3.13
TLC5540CNS	296-23063-5-ND	8-Bit, 40Msps, HS ADC ***NEW!***	24-SOP	5.13	4.11	3.20
TLC5540CNSR	296-10336-1-ND	8-Bit, 40Msps, High Speed ADC	24-SOP	5.13	4.11	3.20
TLC5540CNSR	296-10336-2-ND	8-Bit, 40Msps, High Speed ADC	24-SOP	5814.00/2,000		
TLC5540EVM	296-10337-ND	Evaluation Module for TLC5540	—	50.00	—	—
TLC5540INS	296-21968-5-ND	8-Bit, 40Msps, High Speed ADC	24-SOIC	5.56	4.45	3.46
TLC5540INSR	296-10338-1-ND	8-Bit, 40Msps, High Speed ADC	24-SOP	5.56	4.45	3.46
TLC5540INSR	296-10338-2-ND	8-Bit, 40Msps, High Speed ADC	24-SOP	6298.00/2,000		
TLC5540IPW	296-2184-5-ND	8-Bit, 40Msps, High Speed ADC	24-TSSOP	5.56	4.45	3.46
TLC7135CDW	296-2185-5-ND	4.5-Digit, .003Ksps, 1-Channel Differential Input ADC	28-SOIC	4.16	3.33	2.59
TLC7135CN	296-10350-5-ND	4.5-Digit, .003Ksps, 1-Channel Differential Input ADC	28-Dip	4.16	3.33	2.59
TLV0831CD	296-2944-5-ND	8-Bit, 49Ksps, 1-Ch. 3.3V Serial ADC	8-SOIC	3.15	2.52	1.96
TLV0831CP	296-2187-5-ND	8-Bit, 49Ksps, 1-Ch. 3.3V Serial ADC	8-Dip	3.15	2.52	1.96
TLV0831ID	296-2945-5-ND	8-Bit, 49Ksps, 1-Ch. 3.3V Serial ADC	8-SOIC	3.38	2.70	2.10
TLV0831IP	296-2946-5-ND	8-Bit, 49Ksps, 1-Ch. 3.3V Serial ADC	8-Dip	3.38	2.70	2.10
TLV0832CD	296-2947-5-ND	8-Bit, 44.7Ksps, 2-Ch. 3.3V Serial ADC	8-SOIC	3.15	2.52	1.96
TLV0832CP	296-2948-5-ND	8-Bit, 44.7Ksps, 2-Ch. 3.3V Serial ADC	8-Dip	3.15	2.52	1.96
TLV0832ID	296-2188-5-ND	8-Bit, 44.7Ksps, 2-Ch. 3.3V Serial ADC	8-SOIC	3.38	2.70	2.10
TLV0832IP	296-2949-5-ND	8-Bit, 44.7Ksps, 2-Ch. 3.3V Serial ADC	8-Dip	3.38	2.70	2.10
TLV0834CD	296-2189-5-ND	8-Bit, 41Ksps, 4-Ch. 3.3V Serial ADC	14-SOIC	3.26	2.61	2.03
TLV0834ID	296-2950-5-ND	8-Bit, 41Ksps, 4-Ch. 3.3V Serial ADC	14-SOIC	3.49	2.79	2.17
TLV0834IN	296-2951-5-ND	8-Bit, 41Ksps, 4-Ch. 3.3V Serial ADC	14-Dip	3.49	2.79	2.17
TLV0834IPW	296-13859-5-ND	8-Bit, 41Ksps, 4-Channel 3.3V Serial ADC	16-TSSOP	3.49	2.79	2.17
TLV0838CDW	296-2952-5-ND	8-Bit, 37.9Ksps, 8-Channel 3.3V Serial ADC	20-SOIC	3.26	2.61	2.03
TLV0838IDW	296-2190-5-ND	8-Bit, 37.9Ksps, 8-Channel 3.3V Serial ADC	20-SOIC	3.49	2.79	2.17
TLV0838IN	296-2953-5-ND	8-Bit, 37.9Ksps, 8-Ch. 3.3V Serial ADC	20-Dip	3.49	2.79	2.17
TLV0838IPW	296-2954-5-ND	8-Bit, 37.9Ksps, 8-Channel 3.3V Serial ADC	20-TSSOP	3.49	2.79	2.17
TLV571IDW	296-2207-5-ND	8-Bit, 1.25Msps 1-Channel 2.7V-5.5V Parallel ADC	24-SOIC	5.29	4.23	3.29
TLV571IPW	296-2988-5-ND	8-Bit, 1.25Msps 1-Channel 2.7V-5.5V Parallel ADC	24-TSSOP	5.29	4.23	3.29
TLV1504ID	296-2191-5-ND	10-Bit, 200Ksps, 4-Channel 2.7V-5.5V Serial ADC	16-SOIC	5.30	4.24	3.58
TLV1504IPW	296-2955-5-ND	10-Bit, 200Ksps, 4-Channel 2.7V-5.5V Serial ADC	16-TSSOP	5.30	4.24	3.58
TLV1508IDW	296-2192-5-ND	10-Bit, 200Ksps, 4-Channel 2.7V-5.5V Serial ADC	20-SOIC	6.30	5.04	4.26
TLV1508IPW	296-2956-5-ND	10-Bit, 200Ksps, 4-Channel 2.7V-5.5V Serial ADC	20-TSSOP	6.30	5.04	4.26
TLV1543CDB	296-2958-5-ND	10-Bit, 200Ksps, 11-Channel 3.3V Serial ADC	20-SSOP	4.59	3.68	2.86
TLV1543CDW	296-1878-5-ND	10-Bit, 200Ksps, 11-Channel 3.3V Serial ADC	20-SOIC	4.59	3.68	2.86
TLV1543CN	296-2957-5-ND	10-Bit, 200Ksps, 11-Channel 3.3V Serial ADC	20-Dip	4.82	3.86	3.00
TLV1543IDB	296-2959-5-ND	10-Bit, 200Ksps, 11-Channel 3.3V Serial ADC	20-SSOP	4.93	3.95	3.07
TLV1544CD	296-2960-5-ND	10-Bit, 85Ksps, 4-Channel 2.7V-5.5V Serial ADC	16-SOIC	4.39	3.51	2.73
TLV1544CPW	296-2193-5-ND	10-Bit, 85Ksps, 4-Channel 2.7V-5.5V Serial ADC	16-TSSOP	4.39	3.51	2.73
TLV1544ID	296-2961-5-ND	10-Bit, 85Ksps, 4-Channel 2.7V-5.5V Serial ADC	16-SOIC	4.73	3.78	2.94
TLV1548IDB	296-2962-5-ND	10-Bit, 85Ksps, 8-Channel 2.7V-5.5V Serial ADC	20-SSOP	5.51	4.41	3.43
TLV1548QDBREP	296-18146-1-ND	10-Bit, 85Ksps, 8-Channel 2.7V-5.5V Serial ADC	20-SSOP	6.66	5.33	4.50
TLV1548QDBREP	296-18146-2-ND	10-Bit, 85Ksps, 8-Channel 2.7V-5.5V Serial ADC	20-SSOP	8326.00/2,000		
TLV1548QDBRQ1	296-16956-1-ND	10-Bit, 85Ksps, 8-Channel 2.7V-5.5V Serial ADC	20-SSOP	5.80	4.64	3.92
TLV1548QDBRQ1	296-16956-2-ND	10-Bit, 85Ksps, 8-Channel 2.7V-5.5V Serial ADC	20-SSOP	7250.00/2,000		
TLV1549CD	296-2963-5-ND	10-Bit, 38Ksps, 1-Ch. 3.3V Serial ADC	8-SOIC	4.16	3.33	2.59
TLV1549CP	296-2964-5-ND	10-Bit, 38Ksps, 1-Ch. 3.3V Serial ADC	8-Dip	4.39	3.51	2.73
TLV1549ID	296-2194-5-ND	10-Bit, 38Ksps, 1-Ch. 3.3V Serial ADC	8-SOIC	4.39	3.51	2.73
TLV1549IP	296-2965-5-ND	10-Bit, 38Ksps, 1-Ch. 3.3V Serial ADC	8-Dip	4.61	3.69	2.87
TLV1562CDW	296-2195-5-ND	10-Bit, 2Msps 4-Channel 2.7V-5.5V Parallel ADC	28-SOIC	8.30	6.64	5.61
TLV1562CPW	296-2966-5-ND	10-Bit, 2Msps 4-Channel 2.7V-5.5V Parallel ADC	28-TSSOP	8.30	6.64	5.61
TLV1562IDW	296-1879-5-ND	10-Bit, 2Msps 4-Channel 2.7V-5.5V Parallel ADC	28-SOIC	8.90	7.12	6.01
TLV1562IPW	296-1880-5-ND	10-Bit, 2Msps 4-Channel 2.7V-5.5V Parallel ADC	28-TSSOP	8.90	7.12	6.01
TLV1570CDW	296-2196-5-ND	10-Bit, 1.25Msps 8-Channel 2.7V-5.5V Serial ADC	20-SOIC	7.60	6.08	5.13
TLV1570CPW	296-2967-5-ND	10-Bit, 1.25Msps 8-Channel 2.7V-5.5V Serial ADC	20-TSSOP	7.60	6.08	5.13
TLV1570IDW	296-1881-5-ND	10-Bit, 1.25Msps 8-Channel 2.7V-5.5V Serial ADC	20-SOIC	8.10	6.48	5.47
TLV1570IPW	296-1882-5-ND	10-Bit, 1.25Msps 8-Channel 2.7V-5.5V Serial ADC	20-TSSOP	8.10	6.48	5.47
TLV1571CDW	296-2197-5-ND	10-Bit, 1.25Msps 1-Channel 2.7V-5.5V Parallel ADC	24-SOIC	7.40	5.92	5.00
TLV1571IDW	296-2968-5-ND	10-Bit, 1.25Msps 1-Channel 2.7V-5.5V Parallel ADC	24-SOIC	7.90	6.32	5.34
TLV1571IPW	296-2969-5-ND	10-Bit, 1.25Msps 1-Channel 2.7V-5.5V Parallel ADC	24-TSSOP	7.90	6.32	5.34
TLV1572CD	296-2970-5-ND	10-Bit, 1.25Msps 1-Channel 2.7V-5.5V Serial ADC	8-SOIC	6.60	5.28	4.46
TLV1572ID	296-1883-5-ND	10-Bit, 1.25Msps 1-Channel 2.7V-5.5V Serial ADC	8-SOIC	7.10	5.68	4.80
TLV1578CDA	296-2198-5-ND	10-Bit, 1.25Msps 8-Channel 2.7V-5.5V Parallel ADC	32-TSSOP	7.70	6.16	5.20
TLV1578IDA	296-2971-5-ND	10-Bit, 1.25Msps 8-Channel 2.7V-5.5V Parallel ADC	32-TSSOP	8.20	6.56	5.54
TLV2541CDGK	296-2199-5-ND	12-Bit, 140/200Ksps, 2-Channel 2.7V-5.5V Serial ADC	8-MSOP	7.70	6.16	5.20
TLV2541EVM	296-20577-ND	Evaluation Module for TLV2541	—	50.00	—	—
TLV2541ID	296-2972-5-ND	12-Bit, 140/200Ksps, 2-Channel 2.7V-5.5V Serial ADC	8-SOIC	8.20	6.56	5.54
TLV2541IDGK	296-2973-5-ND	12-Bit, 140/200Ksps, 1-Channel 2.7V-5.5V Serial ADC	8MSOP	8.20	6.56	5.54
TLV2542CDGK	296-2200-5-ND	12-Bit, 140/200Ksps, 2-Channel 2.7V-5.5V Serial ADC	8-MSOP	7.70	6.16	5.20
TLV2542EVM	296-20578-ND	Evaluation Module for TLV2542	—	50.00	—	—
TLV2542ID	296-2974-5-ND	12-Bit, 140/200Ksps, 2-Channel 2.7V-5.5V Serial ADC	8-SOIC	8.20	6.56	5.54
TLV2542IDGK	296-2975-5-ND	12-Bit, 140/200Ksps, 2-Channel 2.7V-5.5V Serial ADC	8-MSOP	8.20	6.56	5.54
TLV2543CDBR	296-10643-1-ND	12-Bit, 66Ksps, 11-Channel 3.3V Serial Out ADC	20-SSOP	8.46	6.77	5.72
TLV2543CDBR	296-10643-2-ND	12-Bit, 66Ksps, 11-Channel 3.3V Serial Out ADC	20-SSOP	10576.00/2,000		
TLV2543CDW	296-2977-5-ND	12-Bit, 66Ksps, 11-Channel 3.3V Serial ADC	20-SOIC	8.46	6.77	5.72
TLV2543CN	296-2978-5-ND	12-Bit, 66Ksps, 11-Ch. 3.3V Serial ADC	20-Dip	8.46	6.77	5.72
TLV2543IDB	296-2201-5-ND	12-Bit, 66Ksps, 11-Channel 3.3V Serial ADC	20-SSOP	9.02	7.22	6.09
TLV2543IDW	296-2979-5-ND	12-Bit, 66Ksps, 11-Channel 3.3V Serial ADC	20-SOIC	9.02	7.22	6.09
TLV2543IN	296-2980-5-ND	12-Bit, 66Ksps, 11-Ch. 3.3V Serial ADC	20-Dip	9.02	7.22	6.09
TLV2544CD	296-2202-5-ND	12-Bit, 200Ksps, 4-Channel 2.7V-5.5V Serial ADC	16-SOIC	8.40	6.72	5.67
TLV2544ID	296-2981-5-ND	12-Bit, 200Ksps, 4-Channel 2.7V-5.5V Serial ADC	16-SOIC	9.00	7.20	6.08
TLV2544IPW	296-2982-5-ND	12-Bit, 200Ksps, 4-Channel 2.7V-5.5V Serial ADC	16-TSSOP	9.00	7.20	6.08
TLV2544QD	296-13365-5-ND	2.7V to 5.5V, 12-Bit, 200Ksps, 4-Channel LP, Serial ADC w/Autopower-Down	16-SOIC	8.66	7.80	6.92
TLV2545CDGK	296-2203-5-ND	12-Bit, 140/200Ksps, 2-Channel 2.7V-5.5V Serial ADC	8-MSOP	7.70	6.16	5.20
TLV2545EVM	296-20579-ND	Evaluation Module for TLV2545	—	50.00	—	—
TLV2545ID	296-2984-5-ND	12-Bit, 140/200Ksps, 2-Channel 2.7V-5.5V Serial ADC	8-SOIC	8.20	6.56	5.54
TLV2545IDGK	296-2985-5-ND	12-Bit, 140/200Ksps, 2-Channel 2.7V-5.5V Serial ADC	8-MSOP	8.20	6.56	5.54
TLV2548CDW	296-2204-5-ND	2.7V-5.5V, 12-Bit, 200Ksps, 8-Channel LP, Serial ADC w/Autopower-Down	20-SOIC	9.70	7.76	6.55
TLV2548IDW	296-2986-5-ND	2.7V-5.5V, 12-Bit, 200Ksps, 8-Channel LP, Serial ADC w/Autopower-Down	20-SOIC	8.66	7.80	6.92
TLV2548IPW	296-2987-5-ND	2.7V-5.5V, 12-Bit, 200Ksps, 8-Ch. LP, Serial ADC w/Autopower-Down	20-TSSOP	8.66	7.80	6.92
TLV2548QDW	296-13366-5-ND	2.7V-5.5V, 12-Bit, 200Ksps, 8-Ch. LP, Serial ADC w/Autopower-Down	20-SOIC	10.00	9.00	7.98
TLV2553EVM	296-20580-ND	Evaluation Module for TLV2553	—	50.00	—	—
TLV2553IDW	296-12227-5-ND	12-Bit, 11-Channel, LP Serial ADC	20-SOIC	6.80	5.44	4.59
TLV2553IPW	296-15633-5-ND	12-Bit, 11-Channel, LP Serial ADC	20-TSSOP	6.80	5.44	4.59
TLV2556EVM	296-20581-ND	Evaluation Module for TLV2556	—	49.38	—	—
TLV2556IDW	296-12502-5-ND	12-Bit, 11-Channel, LP Serial ADC with Internal Reference	20-SOIC	7.10	5.68	4.80
TLV2556IPW	296-13000-5-ND	12-Bit, 11-Channel, LP Serial ADC with Internal Reference	20-TSSOP	7.10	5.68	4.80

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV5535EVM	296-10731-ND	Evaluation Module for TLV5535	—	101.00	—	—
TLV5535IPW	296-2206-5-ND	8-Bit, 35Msps 1-Ch. 3.3V LP ADC	28-TSSOP	5.40	4.32	3.36
TLV5580CDW	296-1912-5-ND	8-Bit, 80Msps 1-Ch. 3.3V LP ADC	28-SOIC	17.91	16.72	15.53
TLV5580CPW	296-1913-5-ND	8-Bit, 80Msps 1-Ch. 3.3V LP ADC	28-TSSOP	17.91	16.72	15.53
TLV5580IDW	296-1914-5-ND	8-Bit, 80Msps 1-Ch. 3.3V LP ADC	28-SOIC	19.26	17.98	16.70
TLV5580IPW	296-1915-5-ND	8-Bit, 80Msps 1-Ch. 3.3V LP ADC	28-TSSOP	19.26	17.98	16.70
TLV5734PAG	296-12955-5-ND	8-Bit, 30Msps 3-Channel 3.3V, Very Low Power ADC	64-TQFP	9.50	7.60	6.42
TSC2003EVM	296-21196-ND	Evaluation Module for TSC2003	—	50.00	—	—
TSC2003EVM-PDK	296-21197-ND	Evaluation Kit for TSC2003	—	152.00	—	—
TSC2003IPW	296-14330-5-ND	I²C Touch Screen Controller	16-TSSOP	5.06	4.05	3.15
TSC2003IZQCR	296-21992-1-ND	I²C Touch Screen Controller	48-VFBGA	5.06	4.05	3.15
TSC2003IZQCR	296-21992-2-ND	I²C Touch Screen Controller	48-VFBGA	7087.50/2,500		
TSC2004IRTJT	296-22660-1-ND	1.2V to 3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller ***NEW!***	20-QFN	4.95	3.96	3.08
TSC2004IRTJT	296-22660-2-ND	1.2V to 3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller ***NEW!***	20-QFN	731.50/250		
TSC2004IYZKR	296-23108-1-ND	1.2V to 3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller ***NEW!***	24-DSBGA	4.95	3.96	3.08
TSC2004IYZKR	296-23108-2-ND	1.2V to 3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller ***NEW!***	24-DSBGA	8316.00/3,000		
TSC2005IYZLT	296-21431-1-ND	1.6V to 3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller	18-WCSP	5.51	4.41	3.43
TSC2005IYZLT	296-21431-2-ND	1.6V to 3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller	18-WCSP	814.75/250		
TSC2006IRTJT	296-22948-1-ND	1.2V to 3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller ***NEW!***	20-QFN	4.73	3.78	2.94
TSC2006IRTJT	296-22948-2-ND	1.2V to 3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller ***NEW!***	20-QFN	698.25/250		
TSC2007IPW	296-21716-5-ND	1.2V to 3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller	16-TSSOP	3.94	3.15	2.45
TSC2007IYZGT	296-21717-1-ND	1.2V to 3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller	12-DSBGA	4.84	3.87	3.01
TSC2007IYZGT	296-21717-2-ND	1.2V to 3.6V, 12-Bit, Nanopower, 4-Wire Touch Screen Controller	12-DSBGA	715.00/250		
TSC2046EIPW	296-21997-5-ND	Low Voltage I/O Touch Screen Controller	16-TSSOP	3.87	3.10	2.41
TSC2046EIRGVT	296-21998-1-ND	Low Voltage I/O Touch Screen Controller	16-QFN	4.55	3.64	2.83
TSC2046EIRGVT	296-21998-2-ND	Low Voltage I/O Touch Screen Controller	16-QFN	671.75/250		
TSC2046EIZQCT	296-21999-1-ND	Low Voltage I/O Touch Screen Controller	48-VFBGA	4.73	3.78	2.94
TSC2046EIZQCT	296-21999-2-ND	Low Voltage I/O Touch Screen Controller	48-VFBGA	698.25/250		
TSC2046EVM	296-17516-ND	Evaluation Module for TSC2046	—	50.00	—	—
TSC2046EVM-PDK	296-17518-ND	Evaluation Module for TSC2046-PDK	—	152.00	—	—
TSC2046IGQCR	296-13811-1-ND	Low Voltage I/O Touch Screen Controller	48-VFBGA	2.20	1.76	1.32
TSC2046IGQCR	296-13811-2-ND	Low Voltage I/O Touch Screen Controller	48-VFBGA	2815.00/2,500		
TSC2046IPWR	296-15049-1-ND	Low Voltage I/O Touch Screen Controller	16-TSSOP	2.00	1.60	1.20
TSC2046IPWR	296-15049-2-ND	Low Voltage I/O Touch Screen Controller	16-TSSOP	2560.00/2,500		
TSC2046IRGVR	296-15050-1-ND	Low Volt. I/O Touch Screen Controller	16-QFN	2.10	1.68	1.26
TSC2046IRGVR	296-15050-2-ND	Low Volt. I/O Touch Screen Controller	16-QFN	2687.50/2,500		
TSC2046IZQCR	296-21289-1-ND	Low Voltage I/O Touch Screen Controller	48-VFBGA	2.20	1.76	1.32
TSC2046IZQCR	296-21289-2-ND	Low Voltage I/O Touch Screen Controller	48-VFBGA	2815.00/2,500		
TSC2100EVM	296-19021-ND	Evaluation Module for TSC2100	—	101.00	—	—
TSC2100IDA	296-15903-5-ND	Prog. Touch Screen Controller	32-TSSOP	7.90	6.32	5.34
TSC2100IRHB	296-17926-ND	Prog. Touch Screen Controller	32-QFN	7.90	6.32	5.34
TSC2101EVM	296-16858-ND	Touch Screen Controller Evaluation Module	—	101.00	—	—
TSC2101IRGZ	296-17512-ND	Audio Codec w/Integrated Headphone Speaker, Amp/Touch Screen Controller	48-QFN	9.90	7.92	6.69
TSC2102IDA	296-15679-5-ND	Programmable Touch Screen Controller with Audio DAC	32-TSSOP	7.40	5.92	5.00
TSC2200EVM	296-13596-ND	Evaluation Module for TSC2200	—	101.00	—	—
TSC2200IPW	TSC2200IPW-ND	Programmable Touch Screen Controller with 12-Bit, 125kHz ADC and Keypad Interface	28-TSSOP	5.40	4.32	3.36
TSC2200IRHB	296-16693-5-ND	Prog. Touch Screen Controller with 12-Bit, 125kHz ADC and Keypad Interface	32-QFN	5.40	4.32	3.36
TSC2200IRHBR	296-16694-1-ND	Prog. Touch Screen Controller with 12-Bit, 125kHz ADC and Keypad Interface	32-QFN	5.40	4.32	3.36
TSC2200IRHBR	296-16694-2-ND	Prog. Touch Screen Controller with 12-Bit, 125kHz ADC and Keypad Interface	32-QFN	9072.00/3,000		
TSC2300IPAG	296-14060-ND	Programmable Touch Screen Controller with Audio Codec	64-TQFP	9.50	7.60	6.42
TSC2301EVM	296-19022-ND	Evaluation Module for TSC2301	—	152.00	—	—
TSC2301IGQZR	296-15713-1-ND	Programmable Touch Screen Controller with Audio Codec	120-BGA	9.90	7.92	6.69
TSC2301IGQZR	296-15713-2-ND	Programmable Touch Screen Controller with Audio Codec	120-BGA	15345.00/2,500		
TSC2301IPAG	296-15680-ND	Programmable Touch Screen Controller with Audio Codec	64-TQFP	9.90	7.92	6.69
TSC2302IRGZ	296-19023-ND	Prog. Touch Screen Controller	48-QFN	9.00	7.20	6.08
TSC2301IZQZ	296-21290-ND	Prog. Touch Screen Controller	120-BGA	9.90	7.92	6.69
VSP1021PFB	296-12700-ND	10-Bit, Low Power Analog-Signal Processor/Digitizer	48-TQFP	6.30	5.04	4.26
HPA-MCUINTERFACE	296-20848-ND	Interface Board for HPA-MCU	—	50.00	—	—

Audio Analog-to-Digital Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AFEDRI8201PFBR	296-21570-1-ND	IF ADC Front End for AM/FM and HD Radios	48-TQFP	28.50	26.60	24.70
AFEDRI8201PFBR	296-21570-2-ND	IF ADC Front End for AM/FM and HD Radios	48-TQFP	46930.00/2,000		
DF1706E	DF1706E-ND	Digital Filter for PCM1704	28-SSOP	17.54	16.37	15.20
DF1760P	DF1760P-ND	Digital Filter for PCM1760	28-Dip	23.27	21.72	20.17
DF1760U	DF1760U-ND	Digital Filter for PCM1760	28-SOIC	23.27	21.72	20.17
PCM1800E	PCM1800E-ND	Single-Ended 20-Bit, Stereo ADC	24-SSOP	5.20	4.16	3.51
PCM1801U	PCM1801U-ND	16-Bit, Stereo Audio ADC	14-SOIC	5.40	4.32	3.36
PCM1802DB	PCM1802DB-ND	24-Bit, 96kHz Delta-Sigma Stereo ADC	20-SSOP	6.70	5.36	4.53
PCM1803ADB	296-19473-5-ND	Single Ended, Analog Input 24-Bit, 96kHz Stereo ADC	20-SSOP	2.36	1.89	1.47
PCM1803DB	296-17658-5-ND	Single Ended, Analog Input 24-Bit, 96kHz Stereo ADC	20-SSOP	2.39	1.91	1.49
PCM1804DB	PCM1804DB-ND	24-Bit, 192kHz Delta-Sigma Stereo ADC	28-SSOP	7.90	6.32	5.34
PCM1807PW	296-18703-5-ND	Single-Ended Analog-Input 24-Bit, 96kHz, Stereo ADC	14-TSSOP	2.25	1.80	1.40
PCM1808PW	296-19773-ND	24-Bit, 96kHz, Stereo ADC	14-TSSOP	2.25	1.80	1.40
PCM1850APJT	296-21585-1-ND	24-Bit, 96kHz, Stereo ADC	32-TQFP	9.60	7.68	6.48
PCM1850APJT	296-21585-2-ND	24-Bit, 96kHz, Stereo ADC	32-TQFP	1560.00/250		
PCM1850PJT	296-16929-ND	24-Bit, 96kHz, Stereo ADC	32-TQFP	9.60	7.68	6.48
PCM1851APJT	296-21586-1-ND	24-Bit, 96kHz, Stereo ADC	32-TQFP	9.60	7.68	6.48
PCM1851APJT	296-21586-2-ND	24-Bit, 96kHz, Stereo ADC	32-TQFP	1560.00/250		
PCM1851PJT	296-16930-ND	24-Bit, 96kHz, Stereo ADC	32-TQFP	9.60	7.68	6.48
PCM1870RHFR	296-21941-1-ND	16-Bit, LP Stereo Audio ADC	24-QFN	4.05	3.24	2.52
PCM1870RHFR	296-21941-2-ND	16-Bit, LP Stereo Audio ADC	24-QFN	6804.00/3,000		
PCM1870YZFT	296-22566-1-ND	16-Bit, LP Stereo Audio ADC ***NEW!***	24-DSBGA	4.50	3.60	2.80
PCM1870YZFT	296-22566-2-ND	16-Bit, LP Stereo Audio ADC ***NEW!***	24-DSBGA	665.00/250		
PCM4201EVM	296-20983-ND	Evaluation Module for PCM4201	—	101.00	—	—
PCM4201PW	296-18031-5-ND	24-Bit, Low Power, Single Channel Audio ADC	16-TSSOP	5.00	4.00	3.38
PCM4202EVM	296-17597-ND	Evaluation Module for PCM4202	—	203.00	—	—
PCM4202DBT	296-17438-1-ND	High-Perf. 24-Bit, 216kHz Sampling Stereo Audio ADC	28-SSOP	9.08	8.18	7.25
PCM4202DBT	296-17438-2-ND	High-Perf. 24-Bit, 216kHz Sampling Stereo Audio ADC	28-SSOP	1737.25/250		
PCM4202IDBREP	296-22195-1-ND	High-Perf. 24-Bit, 216kHz Sampling Stereo Audio ADC ***NEW!***	28-SSOP	12.50	11.25	9.98
PCM4202IDBREP	296-22195-2-ND	High-Perf. 24-Bit, 216kHz Sampling Stereo Audio ADC ***NEW!***	28-SSOP	18526.00/2,000		
PCM4204EVM	296-18513-ND	Evaluation Module for PCM4204	—	203.00	—	—
PCM4204PAPT	296-17439-1-ND	High-Perf. 24-Bit, 216kHz Sampling 4-Channel Audio ADC	64-HTQFP	13.24	11.93	10.58
PCM4204PAPT	296-17439-2-ND	High-Perf. 24-Bit, 216kHz Sampling 4-Channel Audio ADC	64-HTQFP	2534.00/250		
PCM4220PFBR	296-21962-1-ND	2-Channel, 24-Bit, 216kHz ADC	48-TQFP	16.58	14.93	13.24
PCM4220PFBR	296-21962-2-ND	2-Channel, 24-Bit, 216kHz ADC	48-TQFP	12288.00/1,000		
PCM4222PFBR	296-21703-1-ND	2-Channel, 24-Bit, 216kHz ADC	48-TQFP	22.43	20.93	19.44
PCM4222PFBR	296-21703-2-ND	2-Channel, 24-Bit, 216kHz ADC	48-TQFP	18463.00/1,000		

DSP Compatible Analog-to-Digital Converter

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AFE1302Y/250	AFE1302YCT-ND	Analog ADSL Front End	48-TQFP	16.73	15.61	14.50
AFE1302Y/250	AFE1302YTR-ND	Analog ADSL Front End	48-TQFP	3554.00/250		

Digital-to-Analog Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAC712P	DAC712P-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip.3	21.81	—	—
DAC712PB	DAC712PB-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip	28.50	—	—
DAC712PK	DAC712PK-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip	26.33	—	—
DAC712U	DAC712U-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	21.75	—	—
DAC712UB	296-14008-5-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	25.28	—	—
DAC714P	DAC714P-ND	16-Bit, DAC (Serial Data Interface)	16-Dip	25.05	—	—
DAC714U	DAC714U-ND	16-Bit, DAC (Serial Data Interface)	16-SOIC	21.75	—	—
DAC715P	DAC715P-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip	27.48	—	—
DAC715U	DAC715U-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	23.78	—	—
DAC715UB	DAC715UB-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	27.60	—	—
DAC716P	DAC716P-ND	16-Bit, DAC	16-Dip	27.48	—	—
DAC716PB	DAC716PB-ND	16-Bit, DAC	16-Dip	31.25	—	—
DAC716PK	DAC716PK-ND	16-Bit, DAC	16-Dip	29.13	—	—
DAC716U	DAC716U-ND	16-Bit, DAC	16-SOIC	23.78	—	—
DAC716UB	DAC716UB-ND	16-Bit, DAC	16-SOIC	27.60	—	—
DAC716UK	DAC716UK-ND	16-Bit, DAC	16-SOIC	25.50	—	—
DAC725JP	DAC725JP-ND	Dual 16-Bit, DAC	28-Dip	255.00	—	—
DAC811JU	DAC811JU-ND	MPU-Compatible 12-Bit, DAC	28-SOIC	16.50	—	—
DAC813AU	DAC813AU-ND	MPU-Compatible 12-Bit, DAC	28-SOIC	18.90	—	—
DAC813JP	DAC813JP-ND	MPU-Compatible 12-Bit, DAC	28-Dip	23.66	—	—
DAC813JU	DAC813JU-ND	MPU-Compatible 12-Bit, DAC	28-SOIC	18.90	—	—
DAC900E	DAC900E-ND	10-Bit, 165Msps DAC	28-TSSOP	6.04	4.84	4.08
DEM-DAC900E	296-19945-ND	Demo Board for DAC900E	—	152.00	—	—
DAC900U	DAC900U-ND	10-Bit, 165Msps Current Out DAC	28-SOIC	6.04	4.84	4.08
DAC902E	DAC902E-ND	12-Bit, 165Msps DAC	28-TSSOP	8.81	7.94	7.04
DEM-DAC902E	296-19946-ND	Demo Board for DAC902E	—	152.00	—	—
DAC902U	DAC902U-ND	12-Bit, 165Msps Current Out DAC	28-SOIC	8.81	7.94	7.04
DAC904E	DAC904E-ND	14-Bit, 165Msps DAC	28-TSSOP	10.85	9.77	8.66
DEM-DAC904E	296-19947-ND	Demo Board for DAC904E	—	152.00	—	—
DAC904U	DAC904U-ND	14-Bit, 165Msps Current Out DAC	28-SOIC	10.85	9.77	8.66
DAC908E	DAC908E-ND	8-Bit, 165Msps DAC	28-TSSOP	5.58	4.47	3.48
DAC908U	DAC908U-ND	8-Bit, 165Msps Current Out DAC	28-SOIC	5.58	4.47	3.48
DEM-DAC90XU	296-9470-ND	Evaluation Module for DAC90X	—	152.00	—	—
DAC1220E	DAC1220E-ND	20-Bit, Mono, LP, Delta-Sigma DAC	16-SSOP	11.08	9.98	8.85
DAC1220EVM	296-17265-ND	Evaluation Module for DAC1220	—	50.00	—	—
DAC1221E	DAC1221E-ND	16-Bit, DAC	16-SSOP	8.75	7.88	6.99
DAC2900-EVM	296-13545-ND	Evaluation Module for DAC2900	—	152.00	—	—
DAC2900Y/250	DAC2900Y/250CT-ND	10-Bit, 125Msps Dual DAC	48-TQFP	9.93	8.94	7.93
DAC2900Y/250	DAC2900Y/250TR-ND	10-Bit, 125Msps Dual DAC	48-TQFP	1899.75/250		
DAC2902-EVM	296-13546-ND	Evaluation Module for DAC2902	—	152.00	—	—
DAC2902Y/250	DAC2902Y/250CT-ND	12-Bit, 125Msps Dual DAC	48-TQFP	16.07	15.00	13.93
DAC2902Y/250	DAC2902Y/250TR-ND	12-Bit, 125Msps Dual DAC	48-TQFP	3413.75/250		
DAC2904-EVM	296-13547-ND	Evaluation Module for DAC2904	—	152.00	—	—
DAC2904Y/250	296-13071-1-ND	Dual, 14-Bit, 125Msps DAC	48-TQFP	18.84	17.59	16.33
DAC2904Y/250	296-13071-2-ND	Dual, 14-Bit, 125Msps DAC	48-TQFP	4003.50/250		
DAC2932PFBT	296-15714-1-ND	Dual, 12-Bit, 40Msps DAC	48-TQFP	15.33	13.80	12.24
DAC2932PFBT	296-15714-2-ND	Dual, 12-Bit, 40Msps DAC	48-TQFP	2932.50/250		
DAC5571EVM	296-18410-ND	Evaluation Module for DAC5571	—	50.00	—	—
DAC5571IDBVT	296-17199-1-ND	2.7V-5.5V, I²C Interface, Voltage Output 8-Bit DAC	SOT-23-6	2.48	1.98	1.49

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAC5571IDBVT	296-17199-2-ND	2.7V-5.5V, I^{2}C Interface, Voltage Output 8-Bit DAC	SOT-23-6	346.50/250		
DAC5573EVM	296-16741-ND	Evaluation Module for DAC5573	—	50.00	—	—
DAC5573IPW	296-16636-5-ND	Quad, 8-Bit, LP, Voltage Out, DAC	16-TSSOP	5.10	4.08	3.45
DAC5574EVM	296-18411-ND	Evaluation Module for DAC5574	—	50.00	—	—
DAC5574IDGS	296-16665-5-ND	Quad, 8-Bit, LP, Voltage Out, DAC	10-MSOP	5.10	4.08	3.45
DAC5652AIPFB	296-22614-ND	Dual 10-Bit, 275Msps DAC ***NEW!***	48-TQFP	12.66	11.40	10.11
DAC5652EVM	296-17891-ND	Evaluation Module for DAC5652	—	152.00	—	—
DAC5652IPFB	296-17892-ND	Dual 10-Bit, 275Msps DAC	48-TQFP	12.66	11.40	10.11
DAC5652MPFBREP	296-21303-1-ND	Dual 10-Bit, 275Msps DAC	48-TQFP	21.66	20.22	18.78
DAC5652MPFBREP	296-21303-2-ND	Dual 10-Bit, 275Msps DAC	48-TQFP	17784.00/1,000		
DAC5662AIPFB	296-22615-ND	Dual 12-Bit, 275Msps DAC ***NEW!***	48-TQFP	16.16	14.55	12.91
DAC5662IPFB	296-17242-ND	Dual 12-Bit, 200Msps DAC	48-TQFP	16.16	14.55	12.91
DAC5662MPFBEP	296-22559-ND	Dual 12-Bit, 200Msps DAC ***NEW!***	48-TQFP	30.50	28.47	26.43
DAC5662MPFBREP	296-21304-1-ND	Dual 12-Bit, 200Msps DAC	48-TQFP	28.98	27.06	25.12
DAC5662MPFBREP	296-21304-2-ND	Dual 12-Bit, 200Msps DAC	48-TQFP	23864.00/1,000		
DAC5672AIPFB	296-22616-ND	Dual 14-Bit, 275Msps DAC ***NEW!***	48-TQFP	19.88	18.55	17.23
DAC5672IPFB	296-17549-ND	Dual 14-Bit, 200Msps DAC	48-TQFP	19.88	18.55	17.23
DAC5672MPFBEP	296-22560-ND	Dual 14-Bit, 200Msps DAC ***NEW!***	48-TQFP	33.80	31.55	29.29
DAC5672MPFBREP	296-21305-1-ND	Dual 14-Bit, 200Msps DAC	48-TQFP	37.76	35.25	32.73
DAC5672MPFBREP	296-21305-2-ND	Dual 14-Bit, 200Msps DAC	48-TQFP	31091.00/1,000		
DAC5674IPHP	296-15726-ND	14-Bit, 400Msps DAC	48-HTQFP	22.50	21.00	19.50
DAC5675AIPHP	296-18215-ND	14-Bit, 400Msps DAC	48-HTQFP	37.50	35.00	32.50
DAC5675IPHP	296-13032-5-ND	14-Bit, 400Msps DAC	48-HTQFP	37.55	35.05	32.54
DAC5675MPHPEP	296-21306-1-ND	14-Bit, 400Msps DAC	48-HTQFP	83.93	78.34	72.75
DAC5675MPHPEP	296-21306-2-ND	14-Bit, 400Msps DAC	48-HTQFP	17835.75/250		
DAC5682ZIRGCT	296-22919-1-ND	16-Bit, 1.0Gsps, 2-Ch. DAC ***NEW!***	64-QFN	52.73	49.21	45.70
DAC5682ZIRGCT	296-22919-2-ND	16-Bit, 1.0Gsps, 2-Ch. DAC ***NEW!***	64-QFN	11204.00/250		
DAC5686EVM	296-17515-ND	Evaluation Module for DAC5686	—	203.00	—	—
DAC5686IPZP	296-16695-5-ND	16-Bit, 500Msps, Dual-Ch. DAC	100-HTQFP	29.63	27.65	25.68
DAC5687EVM	296-18682-ND	Evaluation Module for DAC5687	—	203.00	—	—
DAC5687IPZP	296-17935-ND	16-Bit, 500Msps, 2x-8x Interpolating Dual-Channel DAC	100-HTQFP	33.75	31.50	29.25
DAC5687MPZP-EP	296-19871-ND	16-Bit, 500Msps, 2x-8x Interpolating Dual-Channel DAC	100-HTQFP	67.50	63.00	58.50
DAC5688IRGCT	296-23218-1-ND	2-Ch., 16-Bit, 800Msps DAC ***NEW!***	64-VQFN	49.43	46.13	42.84
DAC5688IRGCT	296-23218-2-ND	2-Ch., 16-Bit, 800Msps DAC ***NEW!***	64-VQFN	10502.75/250		
DAC6571EVM	296-18412-ND	Evaluation Module for DAC6571	—	50.00	—	—
DAC6571IDBVT	296-18413-1-ND	2.7V to 5.5V, I^{2}C Interface, Volt. Output, 10-Bit DAC	SOT-23-6	3.49	2.79	2.17
DAC6571IDBVT	296-18413-2-ND	2.7V to 5.5V, I^{2}C Interface, Volt. Output, 10-Bit DAC	SOT-23-6	515.50/250		
DAC6573EVM	296-16742-ND	Evaluation Module for DAC6573	—	50.00	—	—
DAC6573IPW	296-16637-5-ND	Quad, 10-Bit, LP, Voltage Out, DAC	16-TSSOP	6.10	4.88	4.12
DAC6574EVM	296-18414-ND	Evaluation Module for DAC6574	—	50.00	—	—
DAC6574IDGS	296-16666-5-ND	Quad, 10-Bit, LP, Voltage Out, DAC	10-MSOP	6.10	4.88	4.12
DAC7512DBVREP	296-22149-1-ND	Low Power, R/R Output, 12-Bit Serial Input DAC ***NEW!***	SOT-23-6	2.25	1.80	1.40
DAC7512DBVREP	296-22149-2-ND	Low Power, R/R Output, 12-Bit Serial Input DAC ***NEW!***	SOT-23-6	3780.00/3,000		
DAC7512E/250	DAC7512ECT-ND	12-Bit, Serial-In, LP, R/R, DAC	8-MSOP	3.53	2.83	2.20
DAC7512E/250	DAC7512ETR-ND	12-Bit, Serial-In, LP, R/R, DAC	8-MSOP	522.00/250		
DAC7512N/250	DAC7512NTR-ND	12-Bit, Serial-In, LP, R/R, DAC	SOT-23-6	505.50/250		
DAC7513E/250	DAC7513ECT-ND	12-Bit, Serial-In, LP, R/R, DAC	8-MSOP	3.71	2.97	2.31
DAC7513E/250	DAC7513ETR-ND	12-Bit, Serial-In, LP, R/R, DAC	8-MSOP	548.75/250		
DAC7513N/250	DAC7513NCT-ND	12-Bit, Serial-In, LP, R/R, DAC	SOT-23-8	3.62	2.90	2.26
DAC7513N/250	DAC7513NTR-ND	12-Bit, Serial-In, LP, R/R, DAC	SOT-23-8	535.25/250		
DAC7541AJP	DAC7541AJP-ND	Quad 12-Bit, CMOS DAC	18-Dip	11.71	10.55	9.35
DAC7541AJU	DAC7541AJU-ND	Quad 12-Bit, CMOS DAC	18-SOIC	10.61	9.56	8.48
DAC7541AKP	DAC7541AKP-ND	Quad 12-Bit, CMOS DAC	18-Dip	13.38	12.05	10.68
DAC7541AKU	DAC7541AKU-ND	Quad 12-Bit, CMOS DAC	18-SOIC	12.35	11.12	9.86
DAC7545GLU	DAC7545GLU-ND	12-Bit, CMOS Multiplying DAC (MPU Compatible)	20-SOIC	18.03	16.83	15.63
DAC7545JU	DAC7545JU-ND	12-Bit, CMOS Multiplying DAC (MPU Compatible)	20-SOIC	9.98	7.99	6.74
DAC7551IDRNT	296-18583-1-ND	12-Bit, Voltage Output, DAC	12-SON	3.49	2.79	2.17
DAC7551IDRNT	296-18583-2-ND	12-Bit, Voltage Output, DAC	12-SON	515.50/250		
DAC7552IRGTR	296-18222-1-ND	12-Bit, Dual, Ultra Low Glitch, Voltage Output DAC	16-QFN	5.29	4.23	3.29
DAC7552IRGTR	296-18222-2-ND	12-Bit, Dual, Ultra Low Glitch, Voltage Output DAC	16-QFN	8883.00/3,000		
DAC7553IRGTT	296-18683-1-ND	12-Bit, Dual, Ultra Low Glitch, Voltage Output DAC	16-QFN	5.20	4.16	3.51
DAC7553IRGTT	296-18683-2-ND	12-Bit, Dual, Ultra Low Glitch, Voltage Output DAC	16-QFN	845.00/250		
DAC7554EVM	296-17893-ND	Evaluation Module for DAC7554	—	50.00	—	—
DAC7554IDGS	296-17551-5-ND	12-Bit, Quad, Voltage Output DAC	10-MSOP	9.60	7.68	6.48
DAC7558EVM	296-20837-ND	Evaluation Module for DAC7558	—	50.00	—	—
DAC7558IRHBR	296-18198-1-ND	2.7V to 5.5V, 12-Bit, Octal, Ultra Low Glitch, Voltage Output DAC	32-QFN	12.50	11.25	9.98
DAC7558IRHBR	296-18198-2-ND	2.7V to 5.5V, 12-Bit, Octal, Ultra Low Glitch, Voltage Output DAC	32-QFN	27339.00/3,000		
DAC7564IAPW	296-23219-5-ND	4-Ch., 12-Bit, Low Power, Voltage Output DAC ***NEW!***	16-TSSOP	9.66	8.70	7.72
DAC7564ICPW	296-23220-5-ND	4-Ch., 12-Bit, Low Power, Voltage Output DAC ***NEW!***	16-TSSOP	11.33	10.20	9.05
DAC7565IAPW	296-23221-5-ND	4-Ch., 12-Bit, Low Power, Voltage Output DAC ***NEW!***	16-TSSOP	9.66	8.70	7.72
DAC7565ICPW	296-23222-5-ND	4-Ch., 12-Bit, Low Power, Voltage Output DAC ***NEW!***	16-TSSOP	11.33	10.20	9.05
DAC7571EVM	296-19937-ND	Evaluation Module for DAC7571	—	50.00	—	—
DAC7571IDBVT	296-14345-1-ND	12-Bit, I^{2}C Voltage Output DAC	SOT23-6	3.94	3.15	2.45
DAC7571IDBVT	296-14345-2-ND	12-Bit, I^{2}C Voltage Output DAC	SOT23-6	582.00/250		
DAC7573EVM	296-16743-ND	Evaluation Module For DAC7573	—	50.00	—	—
DAC7573IPW	296-15745-5-ND	12-Bit, Quad, Low Power, Voltage Output I^{2}C Interface DAC	16-TSSOP	10.25	9.23	8.18
DAC7574EVM	296-19938-ND	Evaluation Module for DAC7574	—	50.00	—	—
DAC7574IDGSR	296-15227-1-ND	12-Bit, Quad, Low Power, Voltage Output I^{2}C Interface DAC	10-MSOP	10.25	9.23	8.18
DAC7574IDGSR	296-15227-2-ND	12-Bit, Quad, Low Power, Voltage Output I^{2}C Interface DAC	10-MSOP	18680.00/2,500		
DAC7611P	DAC7611P-ND	12-Bit, Serial General Purpose DAC	8-Dip	5.86	—	—
DAC7611PB	DAC7611PB-ND	12-Bit, Serial General Purpose DAC	8-Dip	6.72	—	—
DAC7611U	DAC7611U-ND	12-Bit, Serial General Purpose DAC	8-SOIC	5.45	—	—
DAC7611UB	DAC7611UB-ND	12-Bit, Serial General Purpose DAC	8-SOIC	5.70	—	—
DAC7612U	DAC7612U-ND	12-Bit, Dual/Serial GP DAC	8-SOIC	5.38	—	—
DAC7612UB	DAC7612UB-ND	12-Bit, Dual/Serial GP DAC	8-SOIC	6.26	—	—
DAC7613E	DAC7613E-ND	12-Bit, Voltage Out Mono Parallel DAC ±2 LSB	24-SSOP	5.00	—	—
DAC7613EB	DAC7613EB-ND	12-Bit, Voltage Out Mono Parallel DAC ±1 LSB	24-SSOP	5.80	—	—
DAC7631EVM	296-17621-ND	Evaluation Module for DAC7631	—	50.00	—	—
DAC7614E	DAC7614E-ND	Quad Serial-In 12-Bit DAC	20-SSOP	10.61	—	—
DAC7614EB	DAC7614EB-ND	Quad Serial-In 12-Bit DAC	20-SSOP	11.40	—	—
DAC7614P	DAC7614P-ND	Quad Serial-In 12-Bit DAC, ±2 LSB	16-Dip	16.43	—	—
DAC7614PB	DAC7614PB-ND	Quad Serial-In 12-Bit DAC, ±1 LSB	16-Dip	15.62	—	—
DAC7614U	DAC7614U-ND	Quad Serial-In 12-Bit DAC, ±2 LSB	16-SOIC	10.61	—	—
DAC7614UB	DAC7614UB-ND	Quad Serial-In 12-Bit DAC, ±1 LSB	16-SOIC	11.40	—	—
DAC7615E	DAC7615E-ND	Quad Serial-In 12-Bit DAC	20-QSOP	11.16	—	—
DAC7615P	DAC7615P-ND	Quad Serial-In 12-Bit, General Purpose DAC, ±2 LSB	16-Dip	16.43	—	—
DAC7615PB	DAC7615PB-ND	Quad Serial-In 12-Bit, General Purpose DAC, ±1 LSB	16-Dip	15.62	—	—
DAC7615U	DAC7615U-ND	Quad Serial-In 12-Bit, General Purpose DAC, ±2 LSB	16-SOIC	11.16	—	—
DAC7615UB	DAC7615UB-ND	Quad Serial-In 12-Bit, General Purpose DAC, ±1 LSB	16-SOIC	12.00	—	—
DAC7616EB	DAC7616EB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	20-SSOP	9.66	—	—
DAC7616UB	DAC7616UB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	16-SOIC	9.66	—	—
DAC7617EB	DAC7617EB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	20-SSOP	9.66	—	—
DAC7617UB	DAC7617UB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	16-SOIC	9.66	—	—
DAC7621E	DAC7621E-ND	12-Bit, Parallel In DAC, ±2 LSB	20-SSOP	5.50	—	—
DAC7621EB	DAC7621EB-ND	12-Bit, Parallel In DAC, ±1 LSB	20-SSOP	6.40	—	—
DAC7624P	DAC7624P-ND	12-Bit, Quad DAC, ±2 LSB, Mid-Scale Reset	28-Dip	16.83	—	—
DAC7624PB	DAC7624PB-ND	12-Bit, Quad DAC, ±1 LSB, Mid-Scale Reset	28-Dip	17.85	—	—
DAC7624U	DAC7624U-ND	12-Bit, Quad DAC, ±2 LSB, Mid-Scale Reset	28-SOIC	16.23	—	—
DAC7624UB	DAC7624UB-ND	12-Bit, Quad DAC, ±1 LSB, Mid-Scale Reset	28-SOIC	15.60	—	—
DAC7625P	DAC7625P-ND	12-Bit, Quad DAC, ±2 LSB, Zero-Scale Reset	28-Dip	16.83	—	—
DAC7625PB	DAC7625PB-ND	12-Bit, Quad DAC, ±1 LSB, Zero-Scale Reset	28-Dip	17.85	—	—
DAC7625U	DAC7625U-ND	12-Bit, Quad DAC, ±2 LSB, Zero-Scale Reset	28-SOIC	16.23	—	—
DAC7625UB	DAC7625UB-ND	12-Bit, Quad DAC, ±1 LSB, Zero-Scale Reset	28-SOIC	15.60	—	—
DAC7631E	DAC7631E-ND	16-Bit, Low Power (2.5mW) DAC	20-SSOP	9.75	—	—
DAC7631EB	DAC7631EB-ND	16-Bit, Low Power (2.5mW) DAC	20-SSOP	11.50	—	—
DAC7632VFR	296-12630-1-ND	16-Bit, Dual DAC	32-LQFP	15.68	—	—
DAC7632VFR	296-12630-2-ND	16-Bit, Dual DAC	32-LQFP	12906.00/1,000		
DAC7634E	DAC7634E-ND	16-Bit, Quad DAC	48-SSOP	29.93	—	—
DAC7634EB	DAC7634EB-ND	16-Bit, Quad DAC	48-SSOP	34.73	—	—
DAC7641YB/250	DAC7641YBCT-ND	16-Bit, 5V, DAC	32-TQFP	13.24	—	—
DAC7641YB/250	DAC7641YBTR-ND	16-Bit, 5V, DAC	32-TQFP	2534.00/250		
DAC7641Y/250	DAC7641YCT-ND	16-Bit, 5V, DAC	32-TQFP	11.58	—	—
DAC7641Y/250	DAC7641YTR-ND	16-Bit, 5V, DAC	32-TQFP	2215.25/250		
DAC7642VFT	DAC7642VFTCT-ND	16-Bit, Dual Low Power DAC	32-LQFP	17.48	—	—
DAC7642VFT	DAC7642VFTTR-ND	16-Bit, Dual Low Power DAC	32-LQFP	3713.50/250		
DAC7643VFT	DAC7643VFTCT-ND	16-Bit, Dual Low Power DAC	32-LQFP	17.48	—	—
DAC7643VFT	DAC7643VFTTR-ND	16-Bit, Dual Low Power DAC	32-LQFP	3713.50/250		
DAC7644E	DAC7644E-ND	16-Bit, Quad/Parallel ±5V, DAC	48-SSOP	29.93	—	—
DAC7644EB	DAC7644EB-ND	16-Bit, Quad/Parallel ±5V, DAC	48-SSOP	34.73	—	—
DAC7654EVM	296-16990-ND	Evaluation Module for DAC7654	—	50.00	—	—
DAC7654YCT	296-17887-ND	16-Bit, Quad Voltage Out, DAC	64-LQFP	42.23	—	—
DAC7664YCT	296-16928-1-ND	16-Bit, Quad Voltage Out, DAC	64-LQFP	40.20	—	—
DAC7664YCT	296-16928-2-ND	16-Bit, Quad Voltage Out, DAC	64-LQFP	8542.50/250		
DAC7714U	DAC7714U-ND	12-Bit, Quad Voltage Out, Serial DAC	16-SOIC	16.32	—	—
DAC7714UB	DAC7714UB-ND	12-Bit, Quad Voltage Out, Serial DAC	16-SOIC	17.96	—	—
DAC7715U	DAC7715U-ND	12-Bit, Quad Voltage Out, Serial DAC	16-SOIC	17.18	—	—
DAC7715UB	DAC7715UB-ND	12-Bit, Quad Voltage Out, Serial DAC	16-SOIC	18.90	—	—
DAC7724N	DAC7724N-ND	12-Bit, Quad Parallel DAC	28-PLCC	17.75	—	—
DAC7724NB	DAC7724NB-ND	12-Bit, Quad Parallel DAC	28-PLCC	19.02	—	—
DAC7724U	DAC7724U-ND	12-Bit, Quad Parallel DAC	28-SOIC	16.89	—	—
DAC7724UB	DAC7724UB-ND	12-Bit, Quad Parallel DAC	28-SOIC	18.68	—	—
DAC7725N	DAC7725N-ND	12-Bit, Quad Parallel DAC	28-PLCC	17.75	—	—
DAC7725NB	DAC7725NB-ND	12-Bit, Quad Parallel DAC	28-PLCC	19.02	—	—
DAC7725UB	DAC7725UB-ND	12-Bit, Quad Parallel DAC	28-SOIC	18.68	—	—
DAC7731EC	DAC7731EC-ND	16-Bit, Low Power DAC	24-SSOP	15.90	—	—
DAC7731EVM	296-19939-ND	Evaluation Module for DAC7731	—	50.00	—	—
DAC7734E	DAC7734E-ND	Quad Serial 16-Bit, Voltage Out DAC	48-SSOP	47.18	—	—
DAC7734EB	DAC7734EB-ND	Quad Serial 16-Bit, Voltage Out DAC	48-SSOP	51.90	—	—
DAC7734EC	DAC7734EC-ND	Quad Serial 16-Bit, Voltage Out DAC	48-SSOP	60.90	—	—
DAC7741EVM	296-19940-ND	Evaluation Module for DAC7741	—	101.00	—	—
DAC7741Y/250	296-14009-1-ND	16-Bit, Single Channel DAC	48-LQFP	15.99	—	—
DAC7741Y/250	296-14009-2-ND	16-Bit, Single Channel DAC	48-LQFP	3060.00/250		
DAC7741YB/250	296-12702-1-ND	16-Bit, Single Channel DAC	48-LQFP	16.50	—	—
DAC7741YB/250	296-12702-2-ND	16-Bit, Single Channel DAC	48-LQFP	3506.25/250		
DAC7741YC/250	DAC7741YC/250CT-ND	16-Bit, Low Power DAC	48-LQFP	18.15	—	—
DAC7741YC/250	DAC7741YC/250TR-ND	16-Bit, Low Power DAC	48-LQFP	3857.00/250		
DAC7742Y/250	296-14169-1-ND	16-Bit, Mono Parallel DAC	48-LQFP	15.99	—	—
DAC7742Y/250	296-14169-2-ND	16-Bit, Mono Parallel DAC	48-LQFP	3060.00/250		
DAC7742YB/250	296-14167-1-ND	16-Bit, Mono Parallel DAC	48-LQFP	16.50	—	—
DAC7742YB/250	296-14167-2-ND	16-Bit, Mono Parallel DAC	48-LQFP	3506.25/250		
DAC7742YC/250	296-14168-1-ND	16-Bit, Mono Parallel DAC	48-LQFP	18.15	—	—
DAC7742YC/250	296-14168-2-ND	16-Bit, Mono Parallel DAC	48-LQFP	3857.00/250		
DAC7744E	DAC7744E-ND	Quad Parallel 16-Bit DAC	48-SSOP	47.18	—	—
DAC7744EB	DAC7744EB-ND	Quad Parallel 16-Bit DAC	48-SSOP	51.90	—	—
DAC7744EC	DAC7744EC-ND	Quad Parallel 16-Bit DAC	48-SSOP	60.90	—	—
DAC7800LU	296-12976-5-ND	Dual 12-Bit, Monolithic DAC	16-SOIC	29.36	—	—
DAC7801KP	DAC7801KP-ND	Dual 12-Bit, Monolithic DAC	24-Dip	27.68	—	—
DAC7801LP	DAC7801LP-ND	Dual 12-Bit, Monolithic DAC	24-Dip	34.94	—	—
DAC7801LU	296-18289-5-ND	Dual 12-Bit, Monolithic DAC	24-SOIC	30.86	—	—
DAC7802KU	296-12978-5-ND	Dual 12-Bit, Monolithic DAC	24-SOIC	19.95	—	—
DAC7802LP	DAC7802LP-ND	Dual 12-Bit, Monolithic DAC	24-Dip	33.47	—	—

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAC7802LU	296-12980-5-ND	Dual 12-Bit, Monolithic DAC	24-SOIC	30.36	—	—
DAC7811EVM	296-18684-ND	Evaluation Module for DAC7811	—	50.00	—	—
DAC7811IDGSR	296-19660-1-ND	12-Bit, Serial In, Multiplying DAC	10-MSOP	5.10	4.08	3.45
DAC7811IDGSR	296-19660-2-ND	12-Bit, Serial In, Multiplying DAC	10-MSOP	7905.00/2,500		
DAC7821IPW	296-19540-5-ND	12-Bit, Parallel In, Multiplying DAC	20-TSSOP	5.20	4.16	3.51
DAC7822IRTAT	296-20636-1-ND	Dual 12-Bit Parallel In, Multiplying DAC	40-QFN	8.40	6.72	5.67
DAC7822IRTAT	296-20636-2-ND	Dual 12-Bit Parallel In, Multiplying DAC	40-QFN	1365.00/250		
DAC8043UC	DAC8043UC-ND	Serial-In 12-Bit DAC	8-SOIC	8.55	—	—
DAC8043U	DAC8043U-ND	Serial-In 12-Bit DAC	8-SOIC	6.84	—	—
DAC8164IAPW	296-23142-5-ND	14-Bit, Quad Channel, Voltage Output DAC ***NEW!***	16-TSSOP	13.24	11.93	10.58
DAC8164IBPW	296-23143-5-ND	14-Bit, Quad Channel, Voltage Output DAC ***NEW!***	16-TSSOP	16.58	14.93	13.24
DAC8164ICPW	296-23144-5-ND	14-Bit, Quad Channel, Voltage Output DAC ***NEW!***	16-TSSOP	14.91	13.43	11.91
DAC8164IDPW	296-23145-5-ND	14-Bit, Quad Channel, Voltage Output DAC ***NEW!***	16-TSSOP	16.43	15.33	14.24
DAC8165IAPW	296-23146-5-ND	14-Bit, Quad Channel, Voltage Output DAC ***NEW!***	16-TSSOP	13.24	11.93	10.58
DAC8165IBPW	296-23147-5-ND	14-Bit, Quad Channel, Voltage Output DAC ***NEW!***	16-TSSOP	16.58	14.93	13.24
DAC8165ICPW	296-23148-5-ND	14-Bit, Quad Channel, Voltage Output DAC ***NEW!***	16-TSSOP	14.91	13.43	11.91
DAC8165IDPW	296-23149-5-ND	14-Bit, Quad Channel, Voltage Output DAC ***NEW!***	16-TSSOP	16.43	15.33	14.24
DAC8501E/250	DAC8501E/250CT-ND	16-Bit, Low Power DAC	8-MSOP	6.60	5.28	4.46
DAC8501E/250	DAC8501E/250TR-ND	16-Bit, Low Power DAC	8-MSOP	1072.50/250		
DAC8531E/250	DAC8531E/250CT-ND	16-Bit, Low Power DAC	8-MSOP	6.28	5.03	4.24
DAC8531E/250	DAC8531E/250TR-ND	16-Bit, Low Power DAC	8-MSOP	1020.50/250		
DAC8531EVM	296-13548-ND	Evaluation Module for DAC8531	—	101.00	—	—
DAC8531IDRBT	296-15727-1-ND	16-Bit, Low Power, R/R Output DAC	8-SON	6.28	5.03	4.24
DAC8531IDRBT	296-15727-2-ND	16-Bit, Low Power, R/R Output DAC	8-SON	1020.50/250		
DAC8532IDGK	DAC8532IDGK-ND	16-Bit, 2-Channel, Low Power DAC	8-MSOP	8.91	8.03	7.12
DAC8534EVM	296-17255-ND	Evaluation Module for DAC8534	—	50.00	—	—
DAC8534IPW	296-13718-5-ND	Quad Channel, Low Power, 16-Bit, Serial Input DAC	16-TSSOP	14.58	13.13	11.64
DAC8541EVM	296-19941-ND	Evaluation Module for DAC8541	—	101.00	—	—
DAC8541Y/250	296-12427-1-ND	16-Bit, Low Power DAC	32-TQFP	6.60	5.28	4.46
DAC8541Y/250	296-12427-2-ND	16-Bit, Low Power DAC	32-TQFP	1072.50/250		
DAC8544IPFB	296-17092-ND	Quad, 16-Bit, R/R Volt. Output DAC	48-TQFP	16.24	14.63	12.97
DAC8550IBDGKT	296-19621-1-ND	16-Bit, Voltage Output DAC	8-MSOP	6.40	5.12	4.32
DAC8550IBDGKT	296-19621-2-ND	16-Bit, Voltage Output DAC	8-MSOP	1040.00/250		
DAC8550IDGKT	296-19622-1-ND	16-Bit, Voltage Output DAC	8-MSOP	5.90	4.72	3.99
DAC8550IDGKT	296-19622-2-ND	16-Bit, Voltage Output DAC	8-MSOP	958.75/250		
DAC8551EVM	296-20838-ND	Evaluation Module for DAC8551	—	50.00	—	—
DAC8551IADGKT	296-21222-1-ND	16-Bit Ultra Low Glitch, Voltage Output DAC	8-MSOP	5.90	4.72	3.99
DAC8551IADGKT	296-21222-2-ND	16-Bit Ultra Low Glitch, Voltage Output DAC	8-MSOP	958.75/250		
DAC8551IDGKT	296-18290-1-ND	16-Bit Ultra Low Glitch, Voltage Output DAC	8-MSOP	6.50	5.20	4.39
DAC8551IDGKT	296-18290-2-ND	16-Bit Ultra Low Glitch, Voltage Output DAC	8-MSOP	1056.25/250		
DAC8552IDGKT	296-20676-1-ND	16-Bit, 2-Channel Voltage Out DAC	8-MSOP	9.66	8.70	7.72
DAC8552IDGKT	296-20676-2-ND	16-Bit, 2-Channel Voltage Out DAC	8-MSOP	1848.75/250		
DAC8554EVM	296-19429-ND	Evaluation Module for DAC8554	—	50.00	—	—
DAC8554IPW	296-18310-5-ND	16-Bit, Quad Channel, Ultra Low Glitch, Voltage Output DAC	16-TSSOP	15.60	14.56	13.52
DAC8555IPW	296-19402-5-ND	16-Bit, Quad Channel, Ultra Low Glitch, Voltage Output DAC	16-TSSOP	15.60	14.56	13.52
DAC8560IADGKT	296-21385-1-ND	16-Bit, Ultra Low Glitch, Voltage Output DAC	8-MSOP	7.70	6.16	5.20
DAC8560IADGKT	296-21385-2-ND	16-Bit, Ultra Low Glitch, Voltage Output DAC	8-MSOP	1251.25/250		
DAC8560IBDGKT	296-21386-1-ND	16-Bit, Ultra Low Glitch, Voltage Output DAC	8-MSOP	9.20	7.36	6.21
DAC8560IBDGKT	296-21386-2-ND	16-Bit, Ultra Low Glitch, Voltage Output DAC	8-MSOP	1495.00/250		
DAC8560ICDGKT	296-21387-1-ND	16-Bit, Ultra Low Glitch, Voltage Output DAC	8-MSOP	9.70	7.76	6.55
DAC8560ICDGKT	296-21387-2-ND	16-Bit, Ultra Low Glitch, Voltage Output DAC	8-MSOP	1576.25/250		
DAC8560IDDGKT	296-21388-1-ND	16-Bit, Ultra Low Glitch, Voltage Output DAC	8-MSOP	9.33	8.40	7.45
DAC8560IDDGKT	296-21388-2-ND	16-Bit, Ultra Low Glitch, Voltage Output DAC	8-MSOP	1785.00/250		
DAC8564IAPW	296-22920-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC ***NEW!***	16-TSSOP	16.88	15.75	14.63
DAC8564IBPW	296-22921-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC ***NEW!***	16-TSSOP	18.68	17.43	16.19
DAC8564ICPW	296-22922-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC ***NEW!***	16-TSSOP	18.38	17.15	15.93
DAC8564IDPW	296-22923-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC ***NEW!***	16-TSSOP	20.18	18.83	17.49
DAC8565IAPW	296-22924-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC ***NEW!***	16-TSSOP	16.88	15.75	14.63
DAC8565IBPW	296-22925-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC ***NEW!***	16-TSSOP	18.68	17.43	16.19
DAC8565ICPW	296-22926-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC ***NEW!***	16-TSSOP	18.38	17.15	15.93
DAC8565IDPW	296-22927-5-ND	16-Bit, Quad Channel, Ultra Low Glitch Voltage Out DAC ***NEW!***	16-TSSOP	20.18	18.83	17.49
DAC8571EVM	296-19942-ND	Evaluation Module for DAC8571	—	50.00	—	—
DAC8571IDGKR	296-14307-1-ND	16-Bit, Low Power I^{2}C DAC	8-MSOP	5.90	4.72	3.99
DAC8571IDGKR	296-14307-2-ND	16-Bit, Low Power I^{2}C DAC	8-MSOP	9145.00/2,500		
DAC8574EVM	296-18415-ND	Evaluation Module for DAC8574	—	50.00	—	—
DAC8574IPW	296-14170-5-ND	16-Bit, Quad Rail-to-Rail DAC	16-TSSOP	15.38	14.35	13.33
DAC8580EVM	296-19403-3-ND	Evaluation Module for DAC8580	—	50.00	—	—
DAC8580IPW	296-18311-5-ND	16-Bit, High Speed, Low Noise, Voltage Output DAC	16-TSSOP	6.00	4.80	4.05
DAC8581EVM	296-19404-3-ND	Evaluation Module for DAC8581	—	50.00	—	—
DAC8581IPW	296-18312-5-ND	16-Bit, High Speed, Low Noise, Voltage Output DAC	16-TSSOP	6.00	4.80	4.05
DAC8801EVM	296-18416-ND	Evaluation Module for DAC8801	—	50.00	—	—
DAC8801IDGKT	296-17641-1-ND	14-Bit Multiplying DAC	8-MSOP	8.50	7.65	6.79
DAC8801IDGKT	296-17641-2-ND	14-Bit Multiplying DAC	8-MSOP	1625.75/250		
DAC8801IDRBT	296-17642-1-ND	14-Bit Multiplying DAC	8-SON	8.50	7.65	6.79
DAC8801IDRBT	296-17642-2-ND	14-Bit Multiplying DAC	8-SON	1625.75/250		
DAC8802IPW	296-19405-5-ND	Dual Serial Input 14-Bit Multiplying DAC	16-TSSOP	10.16	9.15	8.12
DAC8803IDBT	296-18685-1-ND	Quad Serial Input 14-Bit Multiplying DAC	28-SSOP	20.93	19.53	18.14
DAC8803IDBT	296-18685-2-ND	Quad Serial Input 14-Bit Multiplying DAC	28-SSOP	4446.50/250		
DAC8805QDBTR	296-21734-1-ND	14-Bit, Dual, Parallel In, Multiplying DAC	38-TSSOP	10.25	9.23	8.18
DAC8805QDBTR	296-21734-2-ND	14-Bit, Dual, Parallel In, Multiplying DAC	38-TSSOP	15190.00/2,000		
DAC8806IDB	296-19722-5-ND	14-Bit, Parallel In Multiplying DAC	28-SSOP	9.16	8.25	7.32
DAC8811EVM	296-18417-ND	Evaluation Module for DAC8811	—	50.00	—	—
DAC8811IBDGKT	296-17643-1-ND	16-Bit Multiplying DAC	8-MSOP	13.16	11.85	10.51
DAC8811IBDGKT	296-17643-2-ND	16-Bit Multiplying DAC	8-MSOP	2518.25/250		
DAC8811IBDRBT	296-17644-1-ND	16-Bit Multiplying DAC	8-SON	13.16	11.85	10.51
DAC8811IBDRBT	296-17644-2-ND	16-Bit Multiplying DAC	8-SON	2518.25/250		
DAC8811ICDGKT	296-17645-1-ND	16-Bit Multiplying DAC	8-MSOP	15.08	13.58	12.04
DAC8811ICDGKT	296-17645-2-ND	16-Bit Multiplying DAC	8-MSOP	2884.75/250		
DAC8811ICDRBT	296-17646-1-ND	16-Bit Multiplying DAC	8-SON	15.08	13.58	12.04
DAC8811ICDRBT	296-17646-2-ND	16-Bit Multiplying DAC	8-SON	2884.75/250		
DAC8812IBPW	296-19406-5-ND	Dual, Serial Input 16-Bit Multiplying DAC	16-TSSOP	13.99	12.60	11.18
DAC8812ICPW	296-19407-5-ND	Dual, Serial Input 16-Bit Multiplying DAC	16-TSSOP	16.24	14.63	12.97
DAC8814IBDBT	296-18608-1-ND	Quad, Serial In 16-Bit Multiplying DAC	28-SSOP	27.98	26.11	24.25
DAC8814IBDBT	296-18608-2-ND	Quad, Serial In 16-Bit Multiplying DAC	28-SSOP	5944.75/250		
DAC8814ICDBT	296-18609-1-ND	Quad, Serial In 16-Bit Multiplying DAC	28-SSOP	32.10	29.96	27.82
DAC8814ICDBT	296-18609-2-ND	Quad, Serial In 16-Bit Multiplying DAC	28-SSOP	6821.25/250		
DAC8820IBDB	296-19654-5-ND	16-Bit, Parallel In Multiplying DAC	28-SSOP	14.16	12.75	11.31
DAC8820ICDB	296-19655-5-ND	16-Bit, Parallel In Multiplying DAC	28-SSOP	16.49	14.85	13.17
DAC8822QBDBTR	296-21735-1-ND	16-Bit, Dual, Parallel In, Multiplying DAC	38-TSSOP	14.41	12.98	11.51
DAC8822QBDBTR	296-21735-2-ND	16-Bit, Dual, Parallel In, Multiplying DAC	38-TSSOP	21366.00/2,000		
DAC8822QCDBTR	296-21699-1-ND	16-Bit, Dual, Parallel In, Multiplying DAC	38-TSSOP	16.58	14.93	13.24
DAC8822QCDBTR	296-21699-2-ND	16-Bit, Dual, Parallel In, Multiplying DAC	38-TSSOP	24576.00/2,000		
DAC8830IBD	296-21736-5-ND	16-Bit, Ultra LP Voltage Out, DAC	8-SOIC	14.24	12.83	11.38
DAC8830ICD	296-21737-5-ND	16-Bit, Ultra LP Voltage Out, DAC	8-SOIC	14.58	13.13	11.64
DAC8830ID	296-21738-5-ND	16-Bit, Ultra LP Voltage Out, DAC	8-SOIC	13.24	11.93	10.58
DAC8830MCDREP	296-22562-1-ND	16-Bit, Ultra Low Power, Voltage Out DAC ***NEW!***	8-SOIC	22.32	20.84	19.35
DAC8830MCDREP	296-22562-2-ND	16-Bit, Ultra Low Power, Voltage Out DAC ***NEW!***	8-SOIC	45197.50/2,500		
DAC8831EVM	296-20839-ND	Evaluation Module for DAC8831	—	50.00	—	—
DAC8831IBD	296-18028-5-ND	2.7V to 5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-SOIC	14.24	12.83	11.38
DAC8831IBRGYT	296-20703-1-ND	2.7V to 5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-QFN	15.49	13.95	12.37
DAC8831IBRGYT	296-20703-2-ND	2.7V to 5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-QFN	2964.50/250		
DAC8831ICD	296-18029-5-ND	2.7V to 5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-SOIC	14.58	13.13	11.64
DAC8831ICRGYT	296-20704-1-ND	2.7V to 5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-QFN	15.91	14.33	12.71
DAC8831ICRGYT	296-20704-2-ND	2.7V to 5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-QFN	3044.00/250		
DAC8831ID	296-18030-5-ND	2.7V to 5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-SOIC	13.24	11.93	10.58
DAC8831IRGYT	296-20705-1-ND	2.7V to 5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-QFN	14.58	13.13	11.64
DAC8831IRGYT	296-20705-2-ND	2.7V to 5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-QFN	2789.00/250		
DAC8831MCDEP	296-21224-5-ND	2.7V to 5.5V, 16-Bit Ultra Low Power, Voltage Output DAC	14-SOIC	24.94	23.28	21.62
DAC8832ICRGYT	296-19588-1-ND	16-Bit Ultra LP, Voltage Output DAC	14-QFN	15.91	14.33	12.71
DAC8832ICRGYT	296-19588-2-ND	16-Bit Ultra LP, Voltage Output DAC	14-QFN	3044.00/250		
DAC8871SBPW	296-22150-5-ND	16-Bit, 1-Ch., Serial In/Voltage Out, DAC ***NEW!***	16-TSSOP	16.33	14.70	13.04
DAC8871SPW	296-22151-5-ND	16-Bit, 1-Ch., Serial In/Voltage Out, DAC ***NEW!***	16-TSSOP	13.33	12.00	10.64
DAC8881SRGET	296-22741-1-ND	16-Bit, 1-Ch. Volt. Output DAC ***NEW!***	24-QFN	14.66	13.20	11.71
DAC8881SRGET	296-22741-2-ND	16-Bit, 1-Ch. Volt. Output DAC ***NEW!***	24-QFN	2805.00/250		
DSD1608PAH	296-13451-ND	24-Bit, 8-Ch. Multi-Format DAC	52-TQFP	7.08	6.38	5.66
THS5641AIDW	296-2989-5-ND	8-Bit, 100Msps 3V-5V Single DAC	28-SOIC	5.52	4.42	3.73
THS5641AIPW	296-2990-5-ND	8-Bit, 100Msps 3V-5V Single DAC	28-TSSOP	5.52	4.42	3.73
THS5641EVM	296-10055-ND	Evaluation Module for THS5641	—	101.00	—	—
THS5651AIDW	296-2992-5-ND	10-Bit, 125Msps 3V-5V Single DAC	20-SOIC	8.56	6.85	5.78
THS5651AIPW	296-2287-5-ND	10-Bit, 125Msps 3V-5V Single DAC	28-TSSOP	8.56	6.85	5.78
THS5651EVM	296-10056-ND	Evaluation Module for THS5651	—	101.00	—	—
THS5661AIDW	296-2995-5-ND	12-Bit, 125Msps 3V-5V Single DAC	28-SOIC	10.45	9.41	8.34
THS5661AIPW	296-2288-5-ND	12-Bit, 125Msps 3V-5V Single DAC	28-TSSOP	10.45	9.41	8.34
THS5671AIDW	296-2998-5-ND	14-Bit, 125Msps 3V-5V Single DAC	28-SOIC	11.63	10.47	9.29
THS5671AIPW	296-2289-5-ND	14-Bit, 125Msps 3V-5V Single DAC	28-TSSOP	11.63	10.47	9.29
THS5671EVM	296-10058-ND	Evaluation Module for THS5671	—	101.00	—	—
THS8083A95PZP	296-13345-ND	Triple 8-Bit, 95Msps, 3.3V Video and Graphics Digitizer w/Digital PLL	100-HTQFP	14.23	12.81	11.36
THS8133BCPHP	296-2999-ND	10-Bit, 80Msps 3V-5V Triple Video DAC	48-HTQFP	12.99	11.70	10.38
THS8134BCPHP	296-3001-ND	8-Bit, 80Msps 3V-5V Triple Video DAC	48-HTQFP	9.75	8.78	7.79
THS8135PHP	296-13049-5-ND	Triple 10-Bit Video DAC	48-HTQFP	8.33	7.50	6.65

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC5602CDW	296-3003-5-ND	8-Bit, 30Msps 5V Single Video DAC	20-SOIC	3.31	2.65	2.06
TLC5615CD	296-3004-5-ND	10-Bit, 12.5µs, 5V Single Serial DAC	8-SOIC	4.07	3.26	2.54
TLC5615CDGK	296-3005-5-ND	10-Bit, 12.5us, 5V Single Serial DAC	8-TSSOP	4.07	3.26	2.54
TLC5615CP	296-3006-5-ND	10-Bit, 12.5µs, 5V Single Serial DAC	8-Dip	4.07	3.26	2.54
TLC5615ID	296-3007-5-ND	10-Bit, 12.5µs, 5V Single Serial DAC	8-SOIC	4.28	3.42	2.66
TLC5615IP	296-2292-5-ND	10-Bit, 12.5µs, 5V Single Serial DAC	8-Dip	4.28	3.42	2.66
TLC5618AQD	296-3011-5-ND	12-Bit, 2.5µs, 5V Dual Serial DAC	8-SOIC	8.82	7.06	5.96
TLC5620CD	296-1861-5-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-SOIC	3.42	2.74	2.13
TLC5620CN	296-1862-5-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-Dip	3.62	2.90	2.26
TLC5620ID	296-1339-5-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-SOIC	3.62	2.90	2.26
TLC5620IDR	296-1339-1-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-SOIC	3.62	2.90	2.26
TLC5620IDR	296-1339-2-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-SOIC	5072.50/2,500		
TLC5620IN	296-3012-5-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-Dip	3.80	3.05	2.37
TLC5628CDW	296-1864-5-ND	8-Bit, 10µs, 5V Octal Serial DAC	16-SOIC	5.51	4.41	3.43
TLC5628CN	296-1865-5-ND	8-Bit, 10µs, 5V Octal Serial DAC	16-Dip	5.10	4.08	3.45
TLC5628IDW	296-3013-5-ND	8-Bit, 10µs, 5V Octal Serial DAC	16-SOIC	5.20	4.16	3.51
TLC5628IN	296-3014-5-ND	8-Bit, 10µs, 5V Octal Serial DAC	16-Dip	5.50	4.40	3.72
TLC7225CDW	296-3015-5-ND	8-Bit, 5µs, 5V-15V Quad Parallel DAC	24-SOIC	5.02	4.02	3.13
TLC7225IDW	296-3016-5-ND	8-Bit, 5µs, 5V-15V Quad Parallel DAC	24-SOIC	5.36	4.29	3.34
TLC7226CDW	296-3017-5-ND	8-Bit, 5µs, 15V Quad Parallel DAC	20-SOIC	4.59	3.68	2.86
TLC7226CN	296-3018-5-ND	8-Bit, 5µs, 15V Quad Parallel DAC	20-Dip	4.82	3.86	3.00
TLC7226IDW	296-3019-5-ND	8-Bit, 5µs, 15V Quad Parallel DAC	20-SOIC	4.93	3.95	3.07
TLC7226IN	296-2296-5-ND	8-Bit, 5µs, 15V Quad Parallel DAC	20-Dip	5.24	4.20	3.27
TLC7524CD	296-1866-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	16-SOIC	3.11	2.49	1.94
TLC7524CFN	296-1867-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	20-PLCC	3.11	2.49	1.94
TLC7524CN	296-1868-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	16-Dip	3.31	2.65	2.06
TLC7524CPW	296-3020-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	16-TSSOP	3.11	2.49	1.94
TLC7524EN	296-1869-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	16-Dip	3.74	2.99	2.33
TLC7524ID	296-3021-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	16-SOIC	3.31	2.65	2.06
TLC7524IFN	296-3022-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	20-PLCC	3.31	2.65	2.06
TLC7524IN	296-3023-5-ND	8-Bit, 0.1µs, 5V-15V Single Parallel Multiplying DAC	16-Dip	3.53	2.83	2.20
TLC7528CDW	296-1340-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-SOIC	3.31	2.65	2.06
TLC7528CDWR	296-1340-1-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-SOIC	3.31	2.65	2.06
TLC7528CDWR	296-1340-2-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-SOIC	3748.00/2,000		
TLC7528CFN	296-3024-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-PLCC	3.31	2.65	2.06
TLC7528CN	296-1871-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-Dip	3.31	2.65	2.06
TLC7528EDW	296-3025-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-SOIC	3.85	3.08	2.40
TLC7528EN	296-3026-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-Dip	3.96	3.17	2.47
TLC7528IDW	296-3027-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-SOIC	3.53	2.83	2.20
TLC7528IFN	296-3028-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-PLCC	3.53	2.83	2.20
TLC7528IN	296-3029-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-Dip	3.53	2.83	2.20
TLC7528IPW	296-3030-5-ND	8-Bit, 0.1µs, 5V-15V Dual Parallel Multiplying DAC	20-TSSOP	3.53	2.83	2.20
TLC7628CDW	296-3031-5-ND	8-Bit, 0.1µs, 11V-14V Dual Parallel Multiplying DAC	20-SOIC	3.53	2.83	2.20
TLC7628CN	296-3032-5-ND	8-Bit, 0.1µs, 11V-14V Dual Parallel Multiplying DAC	20-Dip	3.22	2.58	2.01
TLV5604CD	296-2297-5-ND	10-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	16-SOIC	7.40	5.92	5.00
TLV5604CPW	296-3033-5-ND	10-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	16-TSSOP	7.40	5.92	5.00
TLV5604ID	296-1916-5-ND	10-Bit, 3µs, 2.7V-5.5V Quad Parallel DAC	16-SOIC	7.90	6.32	5.34
TLV5604IPW	296-1917-5-ND	10-Bit, 3µs, 2.7V-5.5V Quad Parallel DAC	16-TSSOP	7.90	6.32	5.34
TLV5606CD	296-2298-5-ND	10-Bit, 3 or 9µs, 2.7V-5.5V Single Serial DAC	8-SOIC	2.93	2.34	1.82
TLV5606ID	296-3034-5-ND	10-Bit, 3 or 9µs, 2.7V-5.5V Single Serial DAC	8-SOIC	3.15	2.52	1.96
TLV5606IDGK	296-3035-5-ND	10-Bit, 3 or 9µs, 2.7V-5.5V Single Serial DAC	8-MSOP	3.15	2.52	1.96
TLV5608IDW	296-3036-5-ND	10-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-SOIC	9.80	7.84	6.62
TLV5608IPW	296-3037-5-ND	10-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-TSSOP	9.80	7.84	6.62
TLV5610IDW	296-3038-5-ND	12-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-SOIC	14.16	12.75	11.31
TLV5610IPW	296-3039-5-ND	12-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-TSSOP	14.16	12.75	11.31
TLV5610IYE	296-17097-ND	12-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-WCSP	14.16	12.75	11.31
TLV5610IYZR	296-21503-1-ND	12-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-WCSP	14.16	12.75	11.31
TLV5610IYZR	296-21503-2-ND	12-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-WCSP	30984.00/3,000		
TLV5613CDW	296-2299-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-SOIC	5.20	4.16	3.51
TLV5613CPW	296-1918-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-TSSOP	5.20	4.16	3.51
TLV5613IDW	296-1919-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-SOIC	5.60	4.48	3.78
TLV5613IPW	296-1920-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-TSSOP	5.60	4.48	3.78
TLV5614CD	296-2300-5-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	16-SOIC	12.41	11.18	9.91
TLV5614CPW	296-3040-5-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	16-TSSOP	12.41	11.18	9.91
TLV5614ID	296-1921-5-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	16-SOIC	13.33	12.00	10.64
TLV5614IPW	296-1922-5-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	16-TSSOP	13.33	12.00	10.64
TLV5614IYZT	296-22432-1-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC ***NEW!***	16-XCEPT	12.83	11.55	10.25
TLV5614IYZT	296-22432-2-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC ***NEW!***	16-XCEPT	2454.50/250		
TLV5614MPWREP	296-21258-1-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC ***NEW!***	16-TSSOP	20.40	19.04	17.68
TLV5614MPWREP	296-21258-2-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC ***NEW!***	16-TSSOP	33592.00/2,000		
TLV5616CD	296-2301-5-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	8-SOIC	5.20	4.16	3.51
TLV5616CDR	296-2301-1-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	8-SOIC	5.20	4.16	3.51
TLV5616CDR	296-2301-2-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	8-SOIC	8060.00/2,500		
TLV5616CP	296-3041-5-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	8-Dip	5.20	4.16	3.51
TLV5616ID	296-1923-5-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	8-SOIC	5.60	4.48	3.78
TLV5616IDR	296-1923-1-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	8-SOIC	5.60	4.48	3.78
TLV5616IDGK	296-3042-5-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	8-MSOP	5.60	4.48	3.78
TLV5616IDR	296-1923-2-ND	12-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	8-SOIC	8680.00/2,500		
TLV5617ACD	296-2302-5-ND	10-Bit, 2.5µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	5.06	4.05	3.15
TLV5617AID	296-3043-5-ND	10-Bit, 2.5µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	5.40	4.32	3.36
TLV5618ACD	296-2303-5-ND	12-Bit, 2.5µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	8.10	6.48	5.47
TLV5618AID	296-3044-5-ND	12-Bit, 2.5µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	8.70	6.96	5.88
TLV5618AIP	296-10735-5-ND	12-Bit, 2.5µs, 2.7V-5.5V Dual Serial DAC	8-Dip	8.70	6.96	5.88
TLV5618AMDREP	296-21259-1-ND	12-Bit, 2.5µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	12.33	11.10	9.85
TLV5618AMDREP	296-21259-2-ND	12-Bit, 2.5µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	22477.50/2,500		
TLV5618AQD	296-2304-5-ND	12-Bit, 2.5µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	8.33	7.50	6.65
TLV5619-TLV5639EVM	296-10736-ND	Evaluation Module for TLV5619-TLV5639	—	101.00	—	—
TLV5619IDW	296-3045-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-SOIC	5.60	4.48	3.78
TLV5619IPW	296-2305-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-TSSOP	5.60	4.48	3.78
TLV5619QDWREP	296-18148-1-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-SOIC	7.62	6.10	5.15
TLV5619QDWREP	296-18148-2-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-SOIC	9526.00/2,000		
TLV5620CD	296-3047-5-ND	8-Bit, 10µs, 2.7V-5.25V Quad Serial DAC	14-SOIC	2.25	1.80	1.40
TLV5620CN	296-2306-5-ND	8-Bit, 10µs, 2.7V-5.25V Quad Serial DAC	14-Dip	2.59	2.07	1.61
TLV5620ID	296-3048-5-ND	8-Bit, 10µs, 2.7-5.25V Quad Serial DAC	14-SOIC	2.36	1.89	1.47
TLV5620IN	296-3049-5-ND	8-Bit, 10µs, 2.7V-5.25V Quad Serial DAC	14-Dip	2.81	2.25	1.75
TLV5621ID	296-2307-5-ND	8-Bit, 10µs, 2.7V-5.25V Quad Serial DAC	14-SOIC	3.71	2.97	2.31
TLV5623CD	296-2308-5-ND	8-Bit, 3µs, 2.7V-5.5V Single Serial DAC	8-SOIC	2.48	1.98	1.49
TLV5623CDGK	296-3051-5-ND	8-Bit, 3µs, 2.7V-5.5V Single Serial DAC	8-MSOP	2.48	1.98	1.49
TLV5623ID	296-3052-5-ND	8-Bit, 3µs, 2.7V-5.5V Single Serial DAC	8-SOIC	2.48	1.98	1.54
TLV5623IDGK	296-3053-5-ND	8-Bit, 3µs, 2.7V-5.5V Single Serial DAC	8-MSOP	2.48	1.98	1.54
TLV5624CD	296-2309-5-ND	8-Bit, 1.0-3.5µs, 2.7V-5.5V Single Serial DAC	8-SOIC	3.60	2.88	2.24
TLV5624ID	296-3054-5-ND	8-Bit, 1.0-3.5µs, 2.7V-5.5V Single Serial DAC	8-SOIC	3.83	3.06	2.38
TLV5624IDGK	296-3055-5-ND	8-Bit, 1.0-3.5µs, 2.7V-5.5V Single Serial DAC	8-MSOP	3.83	3.06	2.38
TLV5625CD	296-2310-5-ND	8-Bit, 3 or 10µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	3.83	3.06	2.38
TLV5625ID	296-3056-5-ND	8-Bit, 3 or 10µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	4.05	3.24	2.52
TLV5626CD	296-2311-5-ND	8-Bit, 1µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	4.28	3.42	2.66
TLV5626ID	296-3057-5-ND	8-Bit, 1µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	4.50	3.60	2.80
TLV5627CD	296-2312-5-ND	8-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	16-SOIC	4.61	3.69	2.87
TLV5627ID	296-3058-5-ND	8-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	16-SOIC	4.95	3.96	3.08
TLV5627IPW	296-3059-5-ND	8-Bit, 3µs, 2.7V-5.5V Quad Serial DAC	16-TSSOP	4.95	3.96	3.08
TLV5628CDW	296-3060-5-ND	8-Bit, 10µs, 2.7V-5.5V Octal Serial DAC	16-SOIC	4.95	3.96	3.08
TLV5628CN	296-2313-5-ND	8-Bit, 10µs, 2.7V-5.5V Octal Serial DAC	16-Dip	5.18	4.14	3.22
TLV5628IDW	296-3061-5-ND	8-Bit, 10µs, 2.7V-5.5V Octal Serial DAC	16-SOIC	5.29	4.23	3.29
TLV5628IN	296-3062-5-ND	8-Bit, 10µs, 2.7V-5.5V Octal Serial DAC	16-Dip	5.00	4.00	3.38
TLV5629IDW	296-3063-5-ND	8-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-SOIC	6.30	5.04	4.26
TLV5629IPW	296-3064-5-ND	8-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-TSSOP	6.30	5.04	4.26
TLV5630IDW	296-3065-5-ND	12-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-SOIC	14.74	13.28	11.78
TLV5630IPW	296-3066-5-ND	12-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-TSSOP	14.74	13.28	11.78

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV5631IDW	296-3067-5-ND	10-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-SOIC	9.33	8.40	7.45
TLV5631IPW	296-3068-5-ND	10-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-TSSOP	9.33	8.40	7.45
TLV5632IDW	296-3069-5-ND	8-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-SOIC	6.70	5.36	4.53
TLV5632IPW	296-3070-5-ND	8-Bit, 1/3µs, 2.7V-5.5V Octal Serial DAC	20-TSSOP	6.70	5.36	4.53
TLV5633CDW	296-2314-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-SOIC	9.40	7.52	6.35
TLV5633IDW	296-3071-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-SOIC	8.41	7.58	6.72
TLV5633IPW	296-3072-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-TSSOP	8.41	7.58	6.72
TLV5636CD	296-2315-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	8-SOIC	7.30	5.84	4.93
TLV5636ID	296-3073-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	8-SOIC	7.80	6.24	5.27
TLV5636IDGK	296-3074-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	8-MSOP	7.80	6.24	5.27
TLV5637CD	296-2316-5-ND	10-Bit, 1µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	6.40	5.12	4.32
TLV5637ID	296-3075-5-ND	10-Bit, 1µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	6.80	5.44	4.59
TLV5638CD	296-2317-5-ND	12-Bit, 1 or 3.5µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	7.50	6.00	5.07
TLV5638ID	296-3076-5-ND	12-Bit, 1 or 3.5µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	8.00	6.40	5.40
TLV5638MDREP	296-18149-1-ND	12-Bit, 1 or 3.5µs, 2.7V-5.5V Dual Serial DAC ***NEW!***	8-SOIC	11.33	10.20	9.05
TLV5638MDREP	296-18149-2-ND	12-Bit, 1 or 3.5µs, 2.7V-5.5V Dual Serial DAC ***NEW!***	8-SOIC	20655.00/2,500		
TLV5638QD	296-3077-5-ND	12-Bit, 1 or 3.5µs, 2.7V-5.5V Dual Serial DAC	8-SOIC	9.20	7.36	6.21
TLV5638QDREP	296-22433-1-ND	12-Bit, 1 or 3.5µs, 2.7V-5.5V Dual Serial DAC ***NEW!***	8-SOIC	9.06	8.16	7.24
TLV5638QDREP	296-22433-2-ND	12-Bit, 1 or 3.5µs, 2.7V-5.5V Dual Serial DAC ***NEW!***	8-SOIC	16525.00/2,500		
TLV5639CDW	296-2318-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-SOIC	6.90	5.52	4.66
TLV5639IDW	296-3078-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-SOIC	7.40	5.92	5.00
TLV5639IPW	296-3079-5-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-TSSOP	7.40	5.92	5.00
P82B96DGKR	296-20941-1-ND	Dual Bidirectional Bus Buffer	8-VSSOP	3.38	2.70	2.10
P82B96DGKR	296-20941-2-ND	Dual Bidirectional Bus Buffer	8-VSSOP	4725.00/2,500		
P82B96DR	296-20942-1-ND	Dual Bidirectional Bus Buffer	8-SOIC	3.38	2.70	2.10
P82B96DR	296-20942-2-ND	Dual Bidirectional Bus Buffer	8-SOIC	4725.00/2,500		
P82B96P	296-20943-5-ND	Dual Bidirectional Bus Buffer	8-Dip	3.38	2.70	2.10
P82B96PWR	296-20944-1-ND	Dual Bidirectional Bus Buffer	8-TSSOP	3.38	2.70	2.10
P82B96PWR	296-20944-2-ND	Dual Bidirectional Bus Buffer	8-TSSOP	3826.00/2,000		

Audio Digital-to-Analog Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DF1704E	DF1704E-ND	Stereo, 24-Bit, Digital Interpolation Filter for PCM1704	28-SSOP	15.95	14.89	13.82
DSD1702E	296-13072-5-ND	Enhanced Multiformat, Delta-Sigma, Audio DAC	20-QSOP	4.39	3.51	2.73
DSD1791DB	296-15082-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	4.73	3.78	2.94
DSD1792ADBR	296-21534-1-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	16.58	14.93	13.24
DSD1792ADBR	296-21534-2-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	24576.00/2,000		
DSD1792DB	296-15310-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	16.64	14.99	13.29
DSD1793DB	296-15083-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	4.73	3.78	2.94
DSD1794ADBR	296-21535-1-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	16.58	14.93	13.24
DSD1794ADBR	296-21535-2-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	24576.00/2,000		
DSD1794DB	296-15311-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	16.64	14.99	13.29
DSD1796DB	296-18431-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	5.90	4.72	3.99
PCM56P	PCM56P-ND	Serial In 16-Bit, Mono DAC, 80dB	16-Dip	14.66	—	—
PCM56U	PCM56U-ND	16-Bit, Audio DAC	16-SOIC	14.66	—	—
PCM69AP	PCM69AP-ND	Dual 18-Bit, BiCMOS Audio DAC	16-Dip	26.78	—	—
PCM69AP-J	PCM69AP-J-ND	Dual 18-Bit, BiCMOS Audio DAC	16-Dip	26.78	—	—
PCM69AP-K	PCM69AP-K-ND	Dual 18-Bit, BiCMOS Audio DAC	16-Dip	26.78	—	—
PCM69AU	PCM69AU-ND	Dual 18-Bit, BiCMOS Audio DAC	20-SOIC	26.78	—	—
PCM69AU-J	PCM69AU-J-ND	Dual 18-Bit, BiCMOS Audio DAC	20-SOIC	26.78	—	—
PCM69AU-K	PCM69AU-K-ND	Dual 18-Bit, BiCMOS Audio DAC	20-SOIC	26.78	24.99	23.21
PCM1600Y	PCM1600Y-ND	24-Bit, 96kHz, 6-Channel DAC	48-LQFP	8.34	6.68	5.63
PCM1602APT	296-18701-1-ND	24-Bit, 192kHz Sampling 6-Channel Enhanced Multilevel Delta-Sigma DAC	48-LQFP	5.60	4.48	3.78
PCM1602APT	296-18701-2-ND	24-Bit, 192kHz Sampling 6-Channel Enhanced Multilevel Delta-Sigma DAC	48-LQFP	910.00/250		
PCM1602KY	PCM1602KY-ND	24-Bit, 192kHz, 6-Channel DAC	48-LQFP	7.22	5.78	4.88
PCM1602Y	PCM1602Y-ND	24-Bit, 192kHz, 6-Channel DAC	48-LQFP	6.54	5.24	4.42
PCM1604Y	PCM1604Y-ND	24-Bit, 192kHz, 6-Channel DAC	48-LQFP	9.26	7.41	6.26
PCM1605Y	PCM1605Y-ND	24-Bit, 192kHz, 6-Channel DAC	48-MQFP	9.26	7.41	6.26
PCM1606E	296-13111-5-ND	24-Bit, 6-Channel, Enhanced Multilevel Delta-Sigma DAC	20-SSOP	4.50	3.60	2.80
PCM1608KY	PCM1608KY-ND	24-Bit, 192kHz, 8-Channel DAC	48-LQFP	9.50	7.60	6.42
PCM1608Y	PCM1608Y-ND	24-Bit, 192kHz, 8-Channel DAC	48-LQFP	8.60	6.88	5.81
PCM1609APT	296-18702-1-ND	24-Bit, 192kHz Sampling 8-Channel Enhanced Multilevel Delta-Sigma DAC	48-LQFP	6.40	5.12	4.32
PCM1609APT	296-18702-2-ND	24-Bit, 192kHz Sampling 8-Channel Enhanced Multilevel Delta-Sigma DAC	48-LQFP	1040.00/250		
PCM1680DBQ	296-18004-5-ND	24-Bit, 192kHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	28-QSOP	3.38	2.70	2.10
PCM1681PWP	296-23129-5-ND	24-Bit, 192kHz Sampling, Multilevel Delta-Sigma, 8-Ch. Audio DAC ***NEW!***	28-TSSOP	3.71	2.97	2.31
PCM1702P	PCM1702P-ND	20-Bit BiCMOS Advanced Sign Magnitude DAC	16-Dip	24.62	—	—
PCM1702P-J	PCM1702P-J-ND	20-Bit BiCMOS Advanced Sign Magnitude DAC	16-Dip	24.62	—	—
PCM1702P-K	PCM1702P-K-ND	20-Bit BiCMOS Advanced Sign Magnitude DAC	16-Dip	24.62	—	—
PCM1702U	PCM1702U-ND	20-Bit BiCMOS Advanced Sign Magnitude DAC	20-SOIC	24.62	—	—
PCM1702U-J	PCM1702U-J-ND	20-Bit BiCMOS Advanced Sign Magnitude DAC	20-SOIC	24.62	—	—
PCM1702U-K	PCM1702U-K-ND	20-Bit BiCMOS Advanced Sign Magnitude DAC	20-SOP	24.62	—	—
PCM1702U/2K	296-23018-1-ND	20-Bit BiCMOS Advanced Sign Magnitude DAC ***NEW!***	20-SOP	24.62	22.98	21.34
PCM1702U/2K	296-23018-2-ND	20-Bit BiCMOS Advanced Sign Magnitude DAC ***NEW!***	20-SOP	40532.00/2,000		
PCM1704U	PCM1704U-ND	24-Bit, 96kHz BiCMOS Sign-Magnitude DAC	20-SOIC	30.74	—	—
PCM1704U-J	PCM1704U-J-ND	24-Bit, 96kHz BiCMOS Sign-Magnitude DAC	20-SOIC	30.74	—	—
PCM1704U-K	PCM1704U-K-ND	24-Bit, 96kHz BiCMOS Sign-Magnitude DAC	20-SOIC	30.74	—	—
PCM1704U/2K	296-23019-1-ND	24-Bit, 96kHz BiCMOS Sign-Magnitude DAC ***NEW!***	20-SOIC	30.74	28.69	26.64
PCM1704U/2K	296-23019-2-ND	24-Bit, 96kHz BiCMOS Sign-Magnitude DAC ***NEW!***	20-SOIC	50610.00/2,000		
PCM1710U	PCM1710U-ND	Dual Voltage Output CMOS Delta-Sigma DAC with On-Chip Digital Filter	28-SOIC	8.40	6.72	5.67
PCM1716E	PCM1716E-ND	24-Bit, Stereo 96kHz Sampling DAC	28-SSOP	5.40	4.32	3.36
PCM1717E	PCM1717E-ND	Stereo Audio DAC	20-SSOP	6.70	5.36	4.53
PCM1718E	PCM1718E-ND	Stereo Audio DAC, -90dB THD	20-SSOP	6.70	5.36	4.53
PCM1719E	PCM1719E-ND	Stereo Audio DAC, -88dB THD	28-SSOP	8.92	7.14	6.03
PCM1720E	PCM1720E-ND	Stereo Audio DAC, MPEG2/AC-3 Compatible	20-SSOP	4.39	3.51	2.73
PCM1723E	PCM1723E-ND	Stereo DAC w/Programmable PLL	24-SSOP	5.29	4.23	3.29
PCM1725U	PCM1725U-ND	16-Bit, Stereo 96kHz Sampling DAC	14-SOIC	2.93	2.34	1.82
PCM1727E	PCM1727E-ND	Stereo DAC with Prog. Dual PLL	24-SSOP	6.30	5.04	4.26
PCM1728E	PCM1728E-ND	24-Bit, 96kHz Stereo Audio DAC	28-SSOP	6.30	5.04	4.26
PCM1730E	PCM1730E-ND	24-Bit, 192kHz Stereo Audio DAC	28-SSOP	8.33	7.50	6.65
PCM1733U	PCM1733U-ND	18-Bit, Low Cost Stereo DAC	14-SOIC	3.04	2.43	1.89
PCM1737E	PCM1737E-ND	192kHz Stereo Audio DAC	28-SSOP	7.40	5.92	5.00
PCM1738E	PCM1738E-ND	24-Bit, 192kHz Stereo Audio DAC	28-SSOP	8.75	7.88	6.99
PCM1739E	PCM1739E-ND	192kHz Stereo Audio DAC	28-SSOP	7.40	5.92	5.00
PCM1740E	PCM1740E-ND	PLL DAC with VCXO	24-SSOP	6.30	5.04	4.26
PCM1741E	PCM1741E-ND	24-Bit, 96kHz Audio DAC	16-SSOP	3.49	2.79	2.17
PCM1742E	PCM1742E-ND	24-Bit, 192kHz Audio DAC	16-SSOP	3.71	2.97	2.31
PCM1742KE	PCM1742KE-ND	24-Bit, 192kHz Audio DAC	16-SSOP	4.05	3.24	2.52
PCM1744U	PCM1744U-ND	24-Bit, Low Cost Stereo DAC	14-SOIC	3.04	2.43	1.89
PCM1748E	PCM1748E-ND	24-Bit, Stereo Audio DAC	16-SSOP	2.70	2.16	1.68
PCM1748E/2K	PCM1748ETR-ND	24-Bit, Stereo Audio DAC	16-SSOP	3060.00/2,000		
PCM1748KE	PCM1748KE-ND	24-Bit, Stereo Audio DAC	16-SSOP	2.93	2.34	1.82
PCM1748KE/2K	PCM1748KETR-ND	24-Bit, Stereo Audio DAC	16-SSOP	3316.00/2,000		
PCM1750U	PCM1750U-ND	Dual 18-Bit, Audio A/D Converter	28-SOIC	35.84	—	—
PCM1753DBQ	296-16651-5-ND	24-Bit, 192kHz Audio DAC	16-QSOP	2.36	1.89	1.47
PCM1754DBQ	296-16652-5-ND	24-Bit, 192kHz Audio DAC	16-QSOP	2.36	1.89	1.47
PCM1755DBQ	296-16653-5-ND	24-Bit, 192kHz Audio DAC	16-QSOP	2.36	1.89	1.47
PCM1770PW	296-13470-5-ND	Low Voltage, Low Power, Stereo Audio DAC with Headphone Amplifier	16-TSSOP	2.81	2.25	1.75
PCM1770RGA	296-13471-ND	Low Voltage, Low Power, Stereo Audio DAC with Headphone Amplifier	20-VQFN	3.15	2.52	1.96
PCM1771PW	296-13472-5-ND	Low Voltage, Low Power, Stereo Audio DAC with Headphone Amplifier	16-TSSOP	2.81	2.25	1.75
PCM1771RGA	296-13473-ND	Low Voltage, Low Power, Stereo Audio DAC with Headphone Amplifier	20-VQFN	3.15	2.52	1.96
PCM1772PW	296-13474-5-ND	Low Voltage, Low Power, Stereo Audio DAC with Lineout Amplifier	16-TSSOP	2.81	2.25	1.75
PCM1772RGA	296-13475-ND	Low Voltage, Low Power, Stereo Audio DAC with Lineout Amplifier	20-VQFN	3.15	2.52	1.96
PCM1773PW	296-13476-5-ND	Low Voltage, Low Power, Stereo Audio DAC with Lineout Amplifier	16-TSSOP	2.81	2.25	1.75
PCM1773RGA	296-13477-ND	Low Voltage, Low Power, Stereo Audio DAC with Lineout Amplifier	20-VQFN	3.15	2.52	1.96
PCM1774RGPT	296-22036-1-ND	16-Bit, LP Stereo Audio DAC ***NEW!***	20-QFN	3.71	2.97	2.31
PCM1774RGPT	296-22036-2-ND	16-Bit, LP Stereo Audio DAC ***NEW!***	20-QFN	548.75/250		
PCM1780DBQ	296-17959-5-ND	24-Bit, 192kHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	16-QSOP	2.25	1.80	1.40
PCM1781DBQ	296-17960-5-ND	24-Bit, 192kHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	16-QSOP	2.48	1.98	1.54
PCM1782DBQ	296-17961-5-ND	24-Bit, 192kHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	16-QSOP	2.25	1.80	1.40
PCM1791ADB	296-15091-5-ND	24-Bit, Audio Stereo DAC	28-SSOP	4.73	3.78	2.94
PCM1792ADBR	296-21536-1-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	16.58	14.93	13.24
PCM1792ADBR	296-21536-2-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	24576.00/2,000		
PCM1792DB	296-15313-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	16.64	14.99	13.29
PCM1793DB	296-15092-5-ND	24-Bit, Audio Stereo DAC	28-SSOP	4.73	3.78	2.94
PCM1794ADBR	296-21537-1-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	16.58	14.93	13.24
PCM1794ADBR	296-21537-2-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	24576.00/2,000		
PCM1794DB	296-15314-5-ND	24-Bit, 192kHz Sampling, Audio Stereo DAC	28-SSOP	16.64	14.99	13.29
PCM1796DB	296-18510-5-ND	24-Bit, 192kHz, Audio Stereo DAC	28-SSOP	5.90	4.72	3.99
PCM1798DB	296-18511-5-ND	24-Bit, 192kHz, Audio Stereo DAC	28-SSOP	5.90	4.72	3.99
PCM2702	PCM2702E-ND	16-Bit, Stereo Audio DAC	28-SSOP	9.66	8.70	7.72
PCM2704DB	296-15273-5-ND	Stereo Audio USB 1.1 DAC	28-SSOP	5.10	4.08	3.45
PCM2704DBR	296-23123-1-ND	Stereo Audio USB 1.1 DAC ***NEW!***	28-SSOP	5.10	4.08	3.45
PCM2704DBR	296-23123-2-ND	Stereo Audio USB 1.1 DAC ***NEW!***	28-SSOP	6376.00/2,000		
PCM2705DB	296-15274-5-ND	Stereo Audio USB 1.1 DAC	28-SSOP	5.10	4.08	3.45
PCM2706PJT	296-15275-5-ND	Stereo Audio USB 1.1 DAC	32-TQFP	6.80	5.44	4.59
PCM2707PJT	296-15276-5-ND	Stereo Audio USB 1.1 DAC	32-TQFP	6.80	5.44	4.59
PCM4104EVM	296-18512-ND	Evaluation Module for PCM4104	—	203.00	—	—
PCM4104PFBT	296-16926-1-ND	24-Bit, 200kHz, 4-Ch. Audio DAC	48-TQFP	9.08	8.18	7.25
PCM4104PFBT	296-16926-2-ND	24-Bit, 200kHz, 4-Ch. Audio DAC	48-TQFP	1737.25/250		

(Continued)

TEXAS INSTRUMENTS Digi-Reel® DATA CONVERSION *(Continued)*

Voltage-to-Current Converter

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
XTR110AG	296-13640-5-ND	Precision Voltage-to-Current Converter/Transmitter	16-Dip	58.14	—	—
XTR111AIDGQT	296-22072-1-ND	Precision Voltage-to-Current Converter/Transmitter ***NEW!***	10-MSOP	2.81	2.25	1.75
XTR111AIDGQT	296-22072-2-ND	Precision Voltage-to-Current Converter/Transmitter ***NEW!***	10-MSOP	415.75/250		
XTR111AIDRCT	296-21361-1-ND	Precision Voltage-to-Current Converter/Transmitter	10-DFN	2.81	2.25	1.75
XTR111AIDRCT	296-21361-2-ND	Precision Voltage-to-Current Converter/Transmitter	10-DFN	415.75/250		

Voltage-to-Frequency Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
VFC32KP	VFC32KP-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-Dip	9.60	—	—
VFC32KU	VFC32KU-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-SOIC	9.60	—	—
VFC110AP	VFC110AP-ND	High Frequency Voltage-to-Frequency Converter	14-Dip	18.98	—	—
VFC320BP	296-12616-5-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-Dip	19.80	—	—
VFC320CP	VFC320CP-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-Dip	21.75	—	—

TEXAS INSTRUMENTS Digi-Reel® DATA TRANSMISSION

4-20mA Transmitters/Receivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
RCV420JP	RCV420JP-ND	4-20mA Prec. Current Loop Receiver	16-Dip	7.10	—	—
RCV420KP	RCV420KP-ND	4-20mA Prec. Current Loop Receiver	16-Dip	10.08	—	—
XTR101AP	XTR101AP-ND	Precision, Low Drift, 4-20mA 2-Wire Transmitter	14-Dip	14.49	—	—
XTR101AU	XTR101AU-ND	Precision, Low Drift, 4-20mA 2-Wire Transmitter	16-SOIC	14.49	—	—
XTR105P	XTR105P-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-Dip	9.35	—	—
XTR105PA	XTR105PA-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-Dip	8.00	—	—
XTR105U	XTR105U-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-SOIC	9.35	—	—
XTR105UA	XTR105UA-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-SOIC	8.00	—	—
XTR106P	XTR106P-ND	4-20mA Current Transmitter	14-Dip	9.33	—	—
XTR106PA	XTR106PA-ND	4-20mA Current Transmitter	14-Dip	8.00	—	—
XTR106U	XTR106U-ND	4-20mA Current Transmitter	14-SOIC	9.33	—	—
XTR106UA	XTR106UA-ND	4-20mA Current Transmitter	14-SOIC	8.00	—	—
XTR108EA/2K5	XTR108EACT-ND	4-20mA 2-Wire Transmitter	24-SSOP	6.70	—	—
XTR108EA/2K5	XTR108EATR-ND	4-20mA 2-Wire Transmitter	24-SSOP	10385.00/2,500		
XTR108EVM	296-21214-ND	Evaluation Module for XTR108	—	203.00	—	—
XTR110KP	XTR110KP-ND	4-20mA Precision, Voltage-to-Current Converter/Transmitter	16-Dip	11.83	—	—
XTR110KU	XTR110KU-ND	4-20mA Precision, Voltage-to-Current Converter/Transmitter	16-SOIC	11.83	—	—
XTR112U	XTR112U-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	9.33	—	—
XTR112UA	XTR112UA-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	8.00	—	—
XTR114U	XTR114U-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	9.33	—	—
XTR114UA	XTR114UA-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	8.00	—	—
XTR115U	XTR115U-ND	4-20mA Current Loop Transmitter	8-SOIC	2.93	—	—
XTR115UA	XTR115UA-ND	4-20mA Current Loop Transmitter	8-SOIC	2.45	—	—
XTR116U	XTR116U-ND	4-20mA Current Loop Transmitter	8-SOIC	2.93	—	—
XTR116UA	XTR116UA-ND	4-20mA Current Loop Transmitter	8-SOIC	2.36	—	—
XTR117AIDGKT	296-18744-1-ND	4-20mA Current Loop Transmitter	8-MSOP	2.48	—	—
XTR117AIDGKT	296-18744-2-ND	4-20mA Current Loop Transmitter	8-MSOP	346.50/250		
XTR117AIDRBT	296-19487-1-ND	4-20mA Current Loop Transmitter	8-DFN	2.48	—	—
XTR117AIDRBT	296-19487-2-ND	4-20mA Current Loop Transmitter	8-DFN	346.50/250		
XTR300AIRGWT	296-19535-1-ND	Industrial Analog Current/Voltage Output Driver	20-QFN	5.40	4.32	—
XTR300AIRGWT	296-19535-2-ND	Industrial Analog Current/Voltage Output Driver	20-QFN	877.50/250		
XTR300EVM	296-19618-ND	Evaluation Module for XTR300	—	50.00	—	—

ADSL Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
THS6002CDWP	296-1765-5-ND	Dual Differential Line Driver/Receiver	20-HSOP	8.83	7.95	7.05
THS6002EVM	296-10059-ND	Evaluation Module for THS6002	—	50.00	—	—
THS6002IDWP	296-1766-5-ND	Dual Differential Line Driver/Receiver	20-HSOP	8.83	7.95	7.05
THS6007IPWP	296-10060-5-ND	Dual Diff. Line Driver LP Receiver	28-HTSSOP	9.16	8.25	7.32
THS6012CDWP	296-2372-5-ND	Dual Differential ADSL Driver	20-SOIC	7.12	5.70	4.81
THS6012EVM	296-10061-ND	Evaluation Module for THS6012	—	50.00	—	—
THS6012IDWP	296-1767-5-ND	Dual Differential Line Driver	20-HSOP	7.32	5.86	4.95
THS6012IGQER	296-10062-1-ND	Dual Differential Line Driver	80-VFBGA	7.70	6.16	5.20
THS6012IGQER	296-10062-2-ND	Dual Differential Line Driver	80-VFBGA	11935.00/2,500		
THS6022CPWP	296-1768-5-ND	Dual Differential Line Driver	14-TSSOP	5.22	4.18	3.53
THS6022EVM	296-10063-ND	Evaluation Module for THS6022	—	50.00	—	—
THS6022IPWP	296-1769-5-ND	Dual Differential Line Driver	14-TSSOP	5.42	4.34	3.66
THS6032CDWP	296-2373-5-ND	Low Power ADSL Line Driver	20-SOIC	9.10	7.28	6.15
THS6032EVM	296-10064-ND	Evaluation Module for THS6032	—	50.00	—	—
THS6032IDWP	296-10065-5-ND	Low Power ADSL Line Driver	20-SOIC	9.10	7.28	6.15
THS6032IGQER	296-10066-1-ND	Low Power ADSL Line Driver	80-VFBGA	9.10	7.28	6.15
THS6032IGQER	296-10066-2-ND	Low Power ADSL Line Driver	80-VFBGA	14105.00/2,500		
THS6032IVFP	296-12689-ND	Low Power ADSL Line Driver	32-HLQFP	9.10	7.28	6.15
THS6042EVM	296-20564-ND	Evaluation Module for THS6042	—	50.00	—	—
THS6042ID	296-12315-5-ND	High Speed ADSL CPE Line Driver	8-SOIC	5.22	4.18	3.53
THS6042IDDA	296-12667-5-ND	High Speed ADSL CPE Line Driver	8-SOIC	5.22	4.18	3.53
THS6043EVM	296-20565-ND	Evaluation Module for THS6043	—	50.00	—	—
THS6043ID	296-12316-5-ND	High Speed CPE Line Driver with SD	14-SOIC	5.32	4.26	3.60
THS6043IPWP	296-12317-5-ND	HS CPE Line Driver with SD	14-TSSOP	5.70	4.56	3.85
THS6052EVM	296-20566-ND	Evaluation Module for THS6052	—	50.00	—	—

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
THS6052ID	296-11984-5-ND	Dual HS ADSL CPE Line Driver	8-SOIC	6.46	5.17	4.37
THS6052IDDA	296-12668-5-ND	Dual HS ADSL CPE Line Driver	8-SOIC	6.46	5.17	4.37
THS6052IDR	296-11984-1-ND	Dual HS ADSL Line Driver	8-SOIC	6.46	5.17	4.37
THS6052IDR	296-11984-2-ND	Dual HS ADSL Line Driver	8-SOIC	10012.50/2,500		
THS6053EVM	296-20567-ND	Evaluation Module for THS6053	—	50.00	—	—
THS6053ID	296-12318-5-ND	Dual HS ADSL CPE Line Driver w/SD	14-SOIC	6.46	5.17	4.37
THS6053IPWP	296-11985-5-ND	Dual HS ADSL Line Driver with SD	14-TSSOP	6.46	5.17	4.37
THS6053IPWPR	296-11985-1-ND	Dual HS ADSL Line Driver with SD	14-TSSOP	6.46	5.17	4.37
THS6053IPWPR	296-11985-2-ND	Dual HS ADSL Line Driver with SD	14-TSSOP	8076.00/2,000		
THS6062CD	296-2374-5-ND	Dual ADSL Differential Receiver	8-SOIC	5.29	4.23	3.29
THS6062EVM	296-10069-ND	Evaluation Module for THS6062	—	50.00	—	—
THS6072CD	296-2375-5-ND	Low Power ADSL Differential Receiver	8-SOIC	5.02	4.02	3.13
THS6072EVM	296-10074-ND	Evaluation Module for THS6072	—	101.00	—	—
THS6092EVM	296-20568-ND	Evaluation Module for THS6092	—	50.00	—	—
THS6092ID	296-12319-5-ND	Dual HS ADSL SPE Line Driver	8-SOIC	4.59	3.68	2.86
THS6092IDDAR	296-12669-1-ND	Dual HS ADSL SPE Line Driver	8-SOIC	4.59	3.68	2.86
THS6092IDDAR	296-12669-2-ND	Dual HS ADSL SPE Line Driver	8-SOIC	6425.00/2,500		
THS6093EVM	296-20569-ND	Evaluation Module for THS6093	—	50.00	—	—
THS6093ID	296-11986-5-ND	Dual HS ADSL CPE Line Driver w/SD	14-SOIC	4.59	3.68	2.86
THS6093IPWP	296-12320-5-ND	Dual HS ADSL CPE Line Driver with Shutdown	14-TSSOP	4.59	3.68	2.86
THS6132VFP	296-13744-5-ND	High Efficiency Class-G ADSL Line Driver	32-HLQFP	8.30	6.64	5.61
THS6132VFPEVM	296-20570-ND	Eval. Module for THS6132VFP	—	101.00	—	—
THS6182D	296-14977-5-ND	LP Dissipation ADSL Line Driver	16-SOIC	5.60	4.48	3.78
THS6182DW	296-14978-5-ND	LP Dissipation ADSL Line Driver	20-SOIC	5.60	4.48	3.78
THS6182DWEVM	296-18856-ND	Evaluation Module for THS6182DW	—	101.00	—	—
THS6182RHFR	296-15338-1-ND	LP Dissipation ADSL Line Driver	24-QFN	5.60	4.48	3.78
THS6182RHFR	296-15338-2-ND	LP Dissipation ADSL Line Driver	24-QFN	10416.00/3,000		
THS6182RHFEVM	296-18857-ND	Evaluation Module for THS6182RHF	—	101.00	—	—
THS6184RHFT	296-17862-1-ND	Dual Port, Low Power Differential xDSL Line Driver Amp	24-QFN	7.88	6.31	5.32
THS6184RHFT	296-17862-2-ND	Dual Port, Low Power Differential xDSL Line Driver Amp	24-QFN	4925.00/1,000		
THS6184PWP	296-21670-5-ND	Dual Port, Low Power Differential xDSL Line Driver Amp	20-TSSOP	7.12	5.70	4.81

Ethernet

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DLKPC192SGNT	296-13858-ND	10Gbps Ethernet Lan Physical Coding Sublayer (PCS)	289-PBGA	161.60	150.83	140.05
TLK1002ARGET	296-19420-1-ND	Dual Signal Conditioning Transceiver	24-QFN	11.00	9.90	8.78
TLK1002ARGET	296-19420-2-ND	Dual Signal Conditioning Transceiver	24-QFN	2103.75/250		
TLK1101ERGPT	296-22844-1-ND	11.3Gbps Cable and PC Board Equalizer ***NEW!***	20-QFN	16.41	14.78	13.11
TLK1101ERGPT	296-22844-2-ND	11.3Gbps Cable and PC Board Equalizer ***NEW!***	20-QFN	3139.75/250		
TLK1201AIRCP	296-18299-ND	Gigabit Ethernet Transceiver	64-HVQFP	9.70	7.76	6.55
TLK1201ARCP	296-16797-ND	Gigabit Ethernet Transceiver	64-HVQFP	8.10	6.48	5.47
TLK1201IRCP	296-13362-ND	Gigabit Ethernet Transceiver	64-HVQFP	9.78	7.83	6.61
TLK1211RCP	296-20780-ND	Ethernet Transceiver	64-HVQFP	21.00	19.60	18.20
TLK1221RHAT	296-21551-1-ND	Ethernet Transceiver	40-QFN	7.20	5.76	4.86
TLK1221RHAT	296-21551-2-ND	Ethernet Transceiver	40-QFN	1170.00/250		
TLK1501IRCP	296-10484-ND	0.6-1.5Gbps Transceiver	64-HVQFP	13.99	12.60	11.18
TLK1521IPAP	296-15862-ND	0.5-1.3Gbps Serializer/Deserializer	64-HTQFP	15.75	14.70	13.65
TLK2201AJRGQE	296-18904-1-ND	1.0-1.6Gbps Ethernet Transceiver	80-BGA	8.50	6.80	5.74
TLK2201AJRGQE	296-18904-2-ND	1.0-1.6Gbps Etherent Transceiver	80-BGA	918.08/160		
TLK2201AJRQZE	296-19668-ND	1.0-1.6Gbps Ethernet Transceiver	80-BGA	8.50	6.80	5.74
TLK2201ARCP	296-15238-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	8.10	6.48	5.47
TLK2201BIRCP	296-18300-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	9.30	7.44	6.28
TLK2201BRCP	296-16728-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	7.70	6.16	5.20
TLK2201IRCP	296-10485-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	9.78	7.83	6.61
TLK2201JRGQE	296-10486-ND	1.0-1.6Gbps Ethernet Transceiver	80-BGA	8.16	6.53	5.51
TLK2201RCP	296-10487-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	8.16	6.53	5.51
TLK2208AGPV	296-15328-5-ND	1.0-1.3Gbps 8-Port Gigabit Ethernet Transceiver	289-BGA	47.25	44.10	40.95
TLK2208AZPV	296-21252-ND	1.0-1.3Gbps 8-Port Gigabit Ethernet Transceiver	289-BGA	47.25	44.10	40.95
TLK2208BGPV	296-15724-ND	1.0-1.3Gbps 8-Port Gigabit Ethernet Transceiver	289-BGA	47.25	44.10	40.95
TLK2208BZPV	296-21253-ND	1.0-1.3Gbps 8-Port Gigabit Ethernet Transceiver	289-BGA	47.25	44.10	40.95
TLK2218GPV	296-21605-ND	8-Port Gigabit Ethernet Transceiver	289-BGA	57.75	53.90	50.05
TLK2218ZPV	296-21606-ND	8-Port Gigabit Ethernet Transceiver	289-BGA	57.75	53.90	50.05
TLK2226GEA	296-19514-ND	6-Port Gigabit Ethernet Transceiver	196-BGA	29.48	27.51	25.55
TLK2226ZEA	296-21672-ND	6-Port Gigabit Ethernet Transceiver	196-BGA	29.48	27.51	25.55
TLK2501IRCP	296-10488-ND	1.6-2.5Gbps Transceiver	64-HVQFP	18.90	17.64	16.38
TLK2521IPAP	296-15315-ND	1.0-2.5Gbps Transceiver	64-HTQFP	18.90	17.64	16.38
TLK2701IRCP	296-10489-ND	1.6-2.7Gbps Transceiver	64-HVQFP	18.90	17.64	16.38
TLK2711IRCP	296-12215-ND	1.6-2.7Gbps Transceiver	64-HVQFP	18.90	17.64	16.38
TLK2711JRGQE	296-12216-ND	1.6-2.7Gbps Transceiver	80-BGA	18.90	17.64	16.38
TLK2711JRZQE	296-19633-ND	1.6-2.7Gbps Transceiver	80-BGA	15.75	14.70	13.65
TLK3101IRCP	296-10490-ND	2.5-3.125Gbps Transceiver	64-HVQFP	25.28	23.59	21.91
TLK3104SAGNT	296-12040-5-ND	10Gbps Ethernet Backplane Xcvr.	289-PBGA	101.63	94.85	88.08
TLK3104SCGNT	296-13704-ND	3.125Gbps Quad Serial Backplane Transceiver	289-PBGA	184.88	172.55	160.23
TLK3114SAGNT	296-12747-ND	10Gbps XAUI Transceiver	289-PBGA	103.98	97.05	90.12
TLK3114SCGNT	296-15738-ND	10Gbps XAUI Transceiver	289-PBGA	86.63	80.85	75.08
TLK3114SCGPV	296-21552-ND	10Gbps XAUI Transceiver	289-PBGA	86.63	80.85	75.08
TLK3114SCZPV	296-21553-ND	10Gbps XAUI Transceiver	289-PBGA	86.63	80.85	75.08
TLK3138ZDU	296-21607-ND	Dual XAUI Transceiver	484-PBGA	71.78	66.99	62.21
TLK4015IGPV	296-14198-5-ND	0.6-1.5Gbps Quad Transceiver	289-PBGA	44.10	41.16	38.22
TLK4015IZPV	296-21254-ND	0.6-1.5Gbps Quad Transceiver	289-BGA	44.10	41.16	38.22
TLK4120IGPV	296-16729-ND	0.5-1.3Gbps Quad Transceiver	289-BGA	36.00	33.60	31.20
TLK4120IZPV	296-21255-ND	0.5-1.3Gbps Quad Transceiver	289-BGA	36.00	33.60	31.20
TLK4201EARGTT	296-19785-1-ND	4.25Gbps Cable and PC Board Equalizer	16-QFN	7.10	5.68	4.80
TLK4201EARGTT	296-19785-2-ND	4.25Gbps Cable and PC Board Equalizer	16-QFN	1153.75/250		
TLK4211EARGTT	296-19286-1-ND	4.25Gbps Cable and PC Board Equalizer	16-QFN	7.90	6.32	5.34
TLK4211EARGTT	296-19286-2-ND	4.25Gbps Cable and PC Board Equalizer	16-QFN	1737.25/250		
TLK4250IGPV	296-17047-ND	1.0 to 2.5Gbps Quad Transceiver	289-BGA	128.00	96.00	72.00
TLK4250IZPV	296-20656-ND	1.0 to 2.5Gbps Quad Transceiver	289-PBGA	48.00	44.80	41.60
TLK10021GWQ	296-18660-ND	XAUI to XFI Transceiver	144-BGA	47.27	44.12	40.97
TLK10021ZWQ	296-18661-ND	XAUI to XFI Transceiver	144-BGA	47.27	44.12	40.97
TNETE2201BPHD	296-10772-ND	1.25Gbps Ethernet Transceiver	64-HTQFP	9.50	7.60	6.42

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TNETE2201BPJD	296-10773-ND	1.25Gbps Ethernet Transceiver	64-HTQFP	9.50	7.60	6.42
TNETE2201BPJW	296-14388-ND	1.25Gbps Ethernet Transceiver	64-HTQFP	9.50	7.60	6.42
TPS23841PAPR	296-21345-1-ND	Wide Voltage Range, Quad-Port Ethernet Power Equip. Manager	64-HTQFP	12.50	11.25	9.98
TPS23841PAPR	296-21345-2-ND	Wide Voltage Range, Quad-Port Ethernet Power Equip. Manager	64-HTQFP	9263.00/1,000		
TPS23841PJD	296-21346-ND	Wide Voltage Range, Quad-Port Ethernet Power Equip. Manager	64-HTQFP	12.50	11.25	9.98

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN65HVS880PWP	296-23349-5-ND	8-Channel Digital-Input Serializer	28-HTSSOP	5.50	4.40	3.72

LCD

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
BUF01900AIDRCT	296-21299-1-ND	Programmable Voltage Source with Memory	10-DFN	2.36	1.89	1.47
BUF01900AIDRCT	296-21299-2-ND	Programmable Voltage Source with Memory	10-DFN	349.25/250		
BUF01900AIPWR	296-21300-1-ND	Programmable Voltage Source with Memory	8-TSSOP	2.38	1.90	1.43
BUF01900AIPWR	296-21300-2-ND	Programmable Voltage Source with Memory	8-TSSOP	2470.00/2,000		
BUF01901AIDRCT	296-21301-1-ND	Programmable Voltage Source with Memory	10-DFN	2.25	1.80	1.35
BUF01901AIDRCT	296-21301-2-ND	Programmable Voltage Source with Memory	10-DFN	315.00/250		
BUF01901AIPWR	296-21302-1-ND	Programmable Voltage Source with Memory	8-TSSOP	2.00	1.60	1.20
BUF01901AIPWR	296-21302-2-ND	Programmable Voltage Source with Memory	8-TSSOP	2080.00/2,000		
BUF07702PWPR	296-15354-1-ND	Multi-Channel LCD Gamma Correction Buffer	20-HTSSOP	2.59	2.07	1.61
BUF07702PWPR	296-15354-2-ND	Multi-Channel LCD Gamma Correction Buffer	20-HTSSOP	2932.00/2,000		
BUF07703PWP	296-14632-5-ND	Multi-Channel LCD Gamma Correction Buffer	20-HTSSOP	2.48	1.98	1.54
BUF07704AIPWP	296-17357-ND	18V, 6-Channel, Gamma Correction Buffer	20-HTSSOP	2.59	2.07	1.61
BUF11705AIPWPR	296-19399-1-ND	22V Supply, 10+1 Channel Gamma Correction Buffer	28-TSSOP	3.94	3.15	2.45
BUF11705AIPWPR	296-19399-2-ND	22V Supply, 10+1 Channel Gamma Correction Buffer	28-TSSOP	4462.00/2,000		
BUF16820AIDAPR	296-19538-1-ND	14-Ch. Gamma Voltage Generator	32-HTSSOP	5.10	4.08	3.45
BUF16820AIDAPR	296-19538-2-ND	14-Ch. Gamma Voltage Generator	32-HTSSOP	6376.00/2,000		
BUF20820AIDCPR	296-19400-1-ND	18-Ch. Gamma Voltage Generator	38-HTSSOP	6.50	5.20	4.39
BUF20820AIDCPR	296-19400-2-ND	18-Ch. Gamma Voltage Generator	38-HTSSOP	8126.00/2,000		
BUF22821AIDCPR	296-21949-1-ND	Prog. Gamma Voltage Generator and VCOM Calibrator	38-HTSSOP	6.50	5.20	4.39
BUF22821AIDCPR	296-21949-2-ND	Prog. Gamma Voltage Generator and VCOM Calibrator	38-HTSSOP	8126.00/2,000		
TFP101APZP	296-9987-ND	86MHz PanelBus™ DVI Receiver, with HSYNC Jitter Immunity	100-HTQFP	6.00	4.80	4.05
TFP101PZP	296-9988-ND	86MHz PanelBus™ DVI Receiver	100-HTQFP	6.00	4.80	4.05
TFP201APZP	296-9989-ND	112MHz PanelBus™ DVI Receiver, with HSYNC Jitter Immunity	100-HTQFP	7.00	5.60	4.73
TFP201PZP	296-9990-ND	112MHz PanelBus™ DVI Receiver	100-HTQFP	7.00	5.60	4.73
TFP401APZP	296-9991-ND	165MHz PanelBus™ DVI Receiver, with HSYNC Jitter Immunity	100-HTQFP	8.00	6.40	5.40
TFP401PZP	296-9992-ND	165MHz PanelBus™ DVI Receiver	100-HTQFP	8.00	6.40	5.40
TFP403PZP	296-9993-ND	165MHz PanelBus™ DVI Receiver	100-HTQFP	9.08	8.18	7.25
TFP410PAP	296-12666-ND	PanelBus™ Digital Transmitter	64-HTQFP	6.00	4.80	4.05
TFP410MPAPREP	296-21249-1-ND	PanelBus™ Digital Transmitter	64-HTQFP	8.50	7.65	6.79
TFP410MPAPREP	296-21249-2-ND	PanelBus™ Digital Transmitter	64-HTQFP	6299.00/1,000		

LV

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN65LV1021DB	296-12856-5-ND	10MHz-66MHz, 10:1 LVDS Serializer	28-SSOP	7.82	6.26	5.28
SN65LV1023ADB	296-15176-5-ND	10MHz-66MHz, 10:1 LVDS Serializer	28-SSOP	6.04	4.84	4.08
SN65LV1023AMDBREP	296-21243-1-ND	10MHz-66MHz, 10:1 LVDS Serializer	28-SSOP	13.03	11.73	10.41
SN65LV1023AMDBREP	296-21243-2-ND	10MHz-66MHz, 10:1 LVDS Serializer	28-SSOP	19316.00/2,000		
SN65LV1023ARHBR	296-19317-1-ND	10MHz-66MHz, 10:1 LVDS Serializer	32-QFN	6.04	4.84	4.08
SN65LV1023ARHBR	296-19317-2-ND	10MHz-66MHz, 10:1 LVDS Serializer	32-QFN	11235.00/3,000		
SN65LV1023DB	296-12857-5-ND	10MHz-66MHz, 10:1 LVDS Serializer	28-SSOP	9.28	8.36	7.41
SN65LV1212DB	296-15383-5-ND	10MHz-66MHz, 10:1 LVDS Deserializer	28-SSOP	8.84	7.08	5.97
SN65LV1224BDB	296-17327-5-ND	10MHz-66MHz, 10:1 LVDS Deserializer	28-SSOP	6.22	4.98	4.20
SN65LV1224BMDBREP	296-21244-1-ND	10MHz-66MHz, 10:1 LVDS Deserializer	28-SSOP	13.03	11.73	10.41
SN65LV1224BMDBREP	296-21244-2-ND	10MHz-66MHz, 10:1 LVDS Deserializer	28-SSOP	19316.00/2,000		
SN65LV1224BRHBT	296-19318-1-ND	10MHz-66MHz, 10:1 LVDS Deserializer	32-QFN	6.88	5.51	4.65
SN65LV1224BRHBT	296-19318-2-ND	10MHz-66MHz, 10:1 LVDS Deserializer	32-QFN	1118.00/250		

LVCP

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN65LVCP22D	296-15190-5-ND	LVDS Crosspoint Switch	16-SOIC	5.49	4.40	3.42
SN65LVCP22PW	296-15191-5-ND	LVDS Crosspoint Switch	16-TSSOP	5.49	4.40	3.42
SN65LVCP22-23EVM	296-18522-ND	Evaluation Module for SN65LVCP22-23	—	50.00	—	—
SN65LVCP23D	296-15192-5-ND	LVPECL Crosspoint Switch	16-SOIC	9.88	7.91	6.67
SN65LVCP23PW	296-15193-5-ND	LVPECL Crosspoint Switch	16-TSSOP	9.88	7.91	6.67
SN65LVCP40RGZ	296-17506-ND	DC to 4Gbps Dual 1:2 Mux/Repeater/Equalizer	48-QFN	26.10	24.36	22.62
SN65LVCP40RGZT	296-21987-1-ND	DC to 4Gbps Dual 1:2 Mux/Repeater/ Equalizer	48-QFN	28.73	26.81	24.90
SN65LVCP40RGZT	296-21987-2-ND	DC to 4Gbps Dual 1:2 Mux/Repeater/ Equalizer	48-QFN	6104.00/250		
SN65LVCP402RGET	296-22242-1-ND	Gigabit 2x2 Crosspoint Switch ***NEW!***	24-QFN	12.25	11.03	9.78
SN65LVCP402RGET	296-22242-2-ND	Gigabit 2x2 Crosspoint Switch ***NEW!***	24-QFN	2342.75/250		
SN65LVCP404RGZR	296-21669-1-ND	Gigabit 4x4 Crosspoint Switch	48-QFN	16.41	14.78	13.11
SN65LVCP404RGZR	296-21669-2-ND	Gigabit 4x4 Crosspoint Switch	48-QFN	29920.00/2,500		
TLK6201EARGTT	296-20709-1-ND	6.25Gbps Cable and PC Board Equalizer	16-QFN	8.66	7.80	6.92
TLK6201EARGTT	296-20709-2-ND	6.25Gbps Cable and PC Board Equalizer	16-QFN	1657.50/250		

LVDM

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN65LVDM050D	296-1416-5-ND	Dual Differential Line Driver/Receiver	16-SOIC	4.16	3.33	2.59
SN65LVDM050PW	296-12020-5-ND	HS Differential Line Driver/Receiver	16-TSSOP	4.16	3.33	2.59
SN65LVDM050QDQ1	296-15385-5-ND	HS Differential Line Driver/Receiver	16-SOIC	5.02	4.02	3.13
SN65LVDM050QDRQ1	296-15386-1-ND	HS Differential Line Driver/Receiver	16-SOIC	5.02	4.02	3.13
SN65LVDM050QDRQ1	296-15386-2-ND	HS Differential Line Driver/Receiver	16-SOIC	7025.00/2,500		
SN65LVDM051D	296-1417-5-ND	Dual Differential Line Driver/Receiver	16-SOIC	4.16	3.33	2.59
SN65LVDM051PW	296-12021-5-ND	HS Differential Line Driver/Receiver	16-TSSOP	4.16	3.33	2.59
SN65LVDM051QDQ1	296-15387-5-ND	HS Differential Line Driver/Receiver	16-SOIC	5.02	4.02	3.13
SN65LVDM051QDRQ1	296-15388-1-ND	HS Differential Line Driver/Receiver	16-SOIC	5.02	4.02	3.13
SN65LVDM051QDRQ1	296-15388-2-ND	HS Differential Line Driver/Receiver	16-SOIC	7025.00/2,500		
SN65LVDM22D	296-1421-5-ND	Dual Mux LVDS Repeater	16-SOIC	4.73	3.78	2.94
SN65LVDM22PW	296-12023-5-ND	Dual Mux LVDS Repeater	16-TSSOP	4.73	3.78	2.94
SN65LVDM31D	296-6905-5-ND	HS Differential Line Driver	16-SOIC	2.93	2.34	1.82
SN65LVDM31-32BEVM	296-9736-ND	Evaluation Module for SN65LVDM31 and LVDS32B	—	50.00	—	—
SN65LVDM176D	296-1418-5-ND	HS Differential Line Transceiver	8-SOIC	3.22	2.58	2.01
SN65LVDM176DGK	296-6903-5-ND	HS Differential Multipoint Transceiver	8-MSOP	3.22	2.58	2.01
SN65LVDM179D	296-1419-5-ND	HS Differential Line Driver/Receiver	8-SOIC	3.22	2.58	2.01
SN65LVDM179DGK	296-6904-5-ND	HS Differential Line Driver/Receiver	8-SOP	3.22	2.58	2.01
SN65LVDM180D	296-1420-5-ND	HS Differential Line Driver/Receiver	14-SOIC	3.22	2.58	2.01
SN65LVDM180PW	296-12022-5-ND	HS Differential Line Driver/Receiver	14-TSSOP	3.22	2.58	2.01
SN65LVDM320DGG	296-13125-5-ND	8-Bit, HS Differential Registered Transceiver	64-TSSOP	12.74	11.48	10.18
SN65LVDM1676DGG	296-9734-5-ND	16-Channel Transceiver	64-TSSOP	10.85	9.77	8.66
SN65LVDM1677DGG	296-9735-5-ND	16-Channel Transceiver	64-TSSOP	11.26	10.14	9.00
SN75LVDM976DGG	296-1760-5-ND	9-Channel Dual-Mode Transceiver	56-TSSOP	14.66	13.20	11.71
SN75LVDM976DL	296-6934-5-ND	9-Channel Dual-Mode Transceiver	56-SSOP	14.66	13.20	11.71
SN75LVDM977DGG	296-2365-5-ND	9-Channel Dual-Mode Transceiver	56-TSSOP	14.66	13.20	11.71
SN75LVDM977DL	296-6935-5-ND	9-Channel Dual-Mode Transceiver	56-SSOP	14.66	13.20	11.71

LVDS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN65CML100D	296-13870-5-ND	1.5-Gbps LVDS Translator/Repeater	8-SOIC	5.45	4.36	3.39
SN65CML100DGK	296-13871-5-ND	1.5-Gbps LVDS Translator/Repeater	8-MSOP	5.45	4.36	3.39
SN65CML100EVM	296-20537-ND	Eval. Module for SN65CML100DGK	—	101.00	—	—
SN65LVDS047D	296-6909-5-ND	LVDS Quad Differential Line Driver	16-SOIC	1.78	1.42	1.07
SN65LVDS047PW	296-6910-5-ND	LVDS Quad Differential Line Driver	16-TSSOP	1.78	1.42	1.07
SN65LVDS048AD	296-6911-5-ND	Quad High Speed Diff. Line Receiver	16-SOIC	2.27	1.82	1.42
SN65LVDS048APW	296-6912-5-ND	Quad High Speed Diff. Line Driver	16-TSSOP	2.27	1.82	1.42
SN65LVDS049PW	296-15341-5-ND	Dual LVDS Diff. Driver/Receiver	16-TSSOP	2.10	1.68	1.26
SN65LVDS050D	296-1422-5-ND	HS Differential Line Driver/Receiver	16-SOIC	3.78	3.03	2.36
SN65LVDS050PW	296-12051-5-ND	HS Differential Line Driver/Receiver	16-TSSOP	3.78	3.03	2.36
SN65LVDS051D	296-1423-5-ND	HS Differential Line Driver/Receiver	16-SOIC	3.78	3.03	2.36
SN65LVDS051PW	296-12052-5-ND	HS Differential Line Driver/Receiver	16-TSSOP	3.78	3.03	2.36
SN65LVDS051PWRQ1	296-16948-1-ND	HS Differential Line Driver/Receiver	16-TSSOP	3.87	3.10	2.41
SN65LVDS051PWRQ1	296-16948-2-ND	HS Differential Line Driver/Receiver	16-TSSOP	4386.00/2,000		
SN65LVDS1D	296-12138-5-ND	High Speed Differential Line Driver	8-SOIC	1.17	.98	.78
SN65LVDS1DBVR	296-6919-1-ND	High Speed Differential Line Driver	SOT-23-5	1.17	.98	.78
SN65LVDS1DBVR	296-6919-2-ND	High Speed Differential Line Driver	SOT-23-5	1521.00/3,000		
SN65LVDS2D	296-12139-5-ND	High Speed Differential Line Receiver	8-SOIC	1.48	1.18	.89
SN65LVDS2DBVR	296-6920-1-ND	High Speed Differential Line Receiver	SOT-23-5	1.17	.98	.78
SN65LVDS2DBVR	296-6920-2-ND	High Speed Differential Line Receiver	SOT-23-5	1521.00/3,000		
SN65LVDS16DRFT	296-17441-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	5.70	4.56	3.85
SN65LVDS16DRFT	296-17441-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	926.25/250		
SN65LVDS16EVM	296-17857-ND	Evaluation Module for SN65LVDS16	—	50.00	—	—
SN65LVDS17DRFT	296-17442-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	5.70	4.56	3.85
SN65LVDS17DRFT	296-17442-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	926.25/250		
SN65LVDS17EVM	296-21005-ND	Evaluation Module for SN65LVDS17	—	50.00	—	—
SN65LVDS18DRFT	296-17443-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	4.84	3.87	3.01
SN65LVDS18DRFT	296-17443-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	715.00/250		
SN65LVDS18EVM	296-21006-ND	Evaluation Module for SN65LVDS18	—	50.00	—	—
SN65LVDS19DRFT	296-17444-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	4.84	3.87	3.01
SN65LVDS19DRFT	296-17444-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	715.00/250		
SN65LVDS19EVM	296-21007-ND	Evaluation Module for SN65LVDS19	—	50.00	—	—
SN65LVDS20DRFT	296-17176-1-ND	LVDS Repeater/Translator	8-SON	7.30	5.84	4.93
SN65LVDS20DRFT	296-17176-2-ND	LVDS Repeater/Translator	8-SON	1186.25/250		
SN65LVDS22D	296-1426-5-ND	Dual Mux LVDS Repeater	16-SOIC	5.29	4.23	3.29
SN65LVDS22PW	296-12024-5-ND	Dual Mux LVDS Repeater	16-TSSOP	5.29	4.23	3.29
SN65LVDS31-32BEVM	296-9740-ND	Evaluation Module for SN65LVDS31 and LVDS32B	—	50.00	—	—
SN65LVDS31-32EVM	296-9741-ND	Evaluation Module for SN65LVDS31 and LVDS32	—	50.00	—	—
SN65LVDS31-33EVM	296-13817-ND	Evaluation Module for SN65LVDS31 and LVDS33	—	50.00	—	—
SN65LVDS31D	296-6922-5-ND	Quad High Speed Differential Driver	16-SOIC	2.66	2.13	1.66
SN65LVDS31NS	296-2350-5-ND	Quad High Speed Differential Driver	16-SOP	2.66	2.13	1.66
SN65LVDS31PW	296-12329-5-ND	Quad High Speed Differential Driver	16-TSSOP	2.66	2.13	1.66
SN65LVDS32BDR	296-6923-1-ND	Quad High Speed Diff. Line Driver	16-SOIC	4.73	3.78	2.94
SN65LVDS32BDR	296-6923-2-ND	Quad High Speed Diff. Line Driver	16-SOIC	6615.00/2,500		
SN65LVDS32D	296-6924-5-ND	Quad High Speed Diff. Line Driver	16-SOIC	2.66	2.13	1.66
SN65LVDS32PW	296-12330-5-ND	Quad High Speed Diff. Line Driver	16-TSSOP	2.66	2.13	1.66
SN65LVDS33D	296-9742-5-ND	Quad High Speed Diff. Line Driver	16-SOIC	3.02	2.42	1.88
SN65LVDS33MDREP	296-19498-1-ND	Quad High Speed Diff. Line Driver	16-SOIC	5.44	4.36	3.68
SN65LVDS33MDREP	296-19498-2-ND	Quad High Speed Diff. Line Driver	16-SOIC	8432.50/2,500		
SN65LVDS33PW	296-9743-5-ND	Quad High Speed Diff. Line Driver	16-TSSOP	3.02	2.42	1.88
SN65LVDS34D	296-9744-5-ND	Dual High Speed Diff. Line Driver	8-SOIC	2.43	1.94	1.46
SN65LVDS84AQDGG	296-9747-5-ND	Flatlink™ Transmitter	48-TSSOP	3.96	3.17	2.47
SN65LVDS84AQDGGR	296-9747-1-ND	Flatlink™ Transmitter	48-TSSOP	3.96	3.17	2.47
SN65LVDS84AQDGGR	296-9747-2-ND	Flatlink™ Transmitter	48-TSSOP	4488.00/2,000		
SN65LVDS84AQDGGRQ1	296-23020-1-ND	Flatlink™ Transmitter ***NEW!***	48-TSSOP	4.91	3.93	3.06
SN65LVDS84AQDGGRQ1	296-23020-2-ND	Flatlink™ Transmitter ***NEW!***	48-TSSOP	5560.00/2,000		
SN65LVDS86AQDGGR	296-9748-1-ND	Flatlink™ Receiver	48-TSSOP	4.73	3.78	2.94
SN65LVDS86AQDGGR	296-9748-2-ND	Flatlink™ Receiver	48-TSSOP	5356.00/2,000		
SN65LVDS93DGG	296-1429-5-ND	LVDS SERDES Transmitter	56-TSSOP	6.14	4.92	4.15
SN65LVDS94DGG	296-1430-5-ND	LVDS SERDES Receiver	56-TSSOP	6.14	4.92	4.15
SN65LVDS95DGG	296-1431-5-ND	LVDS SERDES Transmitter	48-TSSOP	6.14	4.92	4.15
SN65LVDS95DGGREP	296-22244-1-ND	LVDS SERDES Transmitter ***NEW!***	48-TSSOP	7.04	5.64	4.76
SN65LVDS95DGGREP	296-22244-2-ND	LVDS SERDES Transmitter ***NEW!***	48-TSSOP	8800.00/2,000		
SN65LVDS95DGGRQ1	296-16950-1-ND	LVDS SERDES Transmitter	48-TSSOP	6.14	4.92	4.15
SN65LVDS95DGGRQ1	296-16950-2-ND	LVDS SERDES Transmitter	48-TSSOP	7676.00/2,000		
SN65LVDS96DGG	296-1434-5-ND	LVDS SERDES Receiver	48-TSSOP	6.14	4.92	4.15
SN65LVDS100D	296-13624-5-ND	2Gbps Differential Translator/Repeater	8-SOIC	5.45	4.36	3.39

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65LVDS100DGK	296-13625-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	5.45	4.36	3.39
SN65LVDS100EVM	296-20539-ND	Eval. Module for SN65LVDS100	—	101.00	—	—
SN65LVDS101D	296-13626-5-ND	2Gbps Differential Translator/Repeater	8-SOIC	5.45	4.36	3.39
SN65LVDS101DGK	296-13627-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	5.45	4.36	3.39
SN65LVDS101EVM	296-20540-ND	Eval. Module for SN65LVDS101	—	101.00	—	—
SN65LVDS104D	296-2344-5-ND	1:4 LVDS Clock Buffer	16-SOIC	4.07	3.26	2.54
SN65LVDS104PW	296-6915-5-ND	1:4 LVDS Clock Buffer	16-TSSOP	4.07	3.26	2.54
SN65LVDS105D	296-2345-5-ND	1:4 LVDS Clock Buffer	16-SOIC	4.07	3.26	2.54
SN65LVDS105PW	296-6917-5-ND	1:4 LVDS Clock Buffer	16-TSSOP	4.07	3.26	2.54
SN65LVDS108DBT	296-2346-5-ND	8-Port LVDS Repeater	38-TSSOP	6.72	5.38	4.54
SN65LVDS109DBT	296-2347-5-ND	Dual 1:4 LVDS Repeater	38-TSSOP	6.72	5.38	4.54
SN65LVDS116DGG	296-2348-5-ND	1:16 LVDS Repeater	64-TSSOP	8.40	7.56	6.71
SN65LVDS116DGGR	296-2348-1-ND	1:16 LVDS Repeater	64-TSSOP	8.40	7.56	6.71
SN65LVDS116DGGR	296-2348-2-ND	1:16 LVDS Repeater	64-TSSOP	12448.00/2,000		
SN65LVDS117DGG	296-2349-5-ND	Dual 8-Port LVDS Repeater	64-TSSOP	8.40	7.56	6.71
SN65LVDS117DGGR	296-2349-1-ND	Dual 8-Port LVDS Repeater	64-TSSOP	8.40	7.56	6.71
SN65LVDS117DGGR	296-2349-2-ND	Dual 8-Port LVDS Repeater	64-TSSOP	12448.00/2,000		
SN65LVDS122D	296-13650-5-ND	1.5Gbps, 2x2 LVDS Crosspoint Switch	16-SOIC	9.02	7.22	6.09
SN65LVDS122EVM	296-20541-ND	Evaluation Module for SN65LVDS122	—	50.00	—	—
SN65LVDS122PW	296-13651-5-ND	1.5Gbps, 2x2 LVDS Crosspoint Switch	16-TSSOP	9.02	7.22	6.09
SN65LVDS125ADBT	296-18524-5-ND	1.5Gbps 4x4 LVDS Crosspoint Switch	38-TSSOP	12.25	11.03	9.78
SN65LVDS125AEVM	296-18525-ND	Evaluation Module for SN65LVDS125A	—	50.00	—	—
SN65LVDS125DBT	296-15729-5-ND	1.5Gbps 4x4 LVDS Crosspoint Switch	38-TSSOP	13.78	12.41	11.00
MUXIT-EVM	296-9620-ND	Eval. Module for SN65LVDS150/151/152	—	101.00	—	—
SN65LVDS150PW	296-9737-5-ND	MuxIt™ PLL Freq. Multiplier	28-TSSOP	5.88	4.71	3.97
SN65LVDS151DA	296-9738-5-ND	MuxIt™ Serializer Transmitter	32-TSSOP	4.82	3.86	3.00
SN65LVDS152DA	296-9739-5-ND	MuxIt™ Receiver/Deserializer	32-TSSOP	4.82	3.86	3.00
SN65LVDS179D	296-1424-5-ND	HS Differential Line Driver/Receiver	8-SOIC	2.45	1.97	1.53
SN65LVDS179DGK	296-6918-5-ND	HS Differential Line Driver/Receiver	8-MSOP	2.45	1.97	1.53
SN65LVDS179MDGKREP	296-22243-1-ND	High Speed Differential Line Driver/ Receiver ***NEW!***	8-MSOP	4.84	3.87	3.01
SN65LVDS179MDGKREP	296-22243-2-ND	High Speed Differential Line Driver/ Receiver ***NEW!***	8-MSOP	6772.50/2,500		
SN65LVDS180D	296-1425-5-ND	HS Differential Line Driver/Receiver	14-SOIC	2.45	1.97	1.53
SN65LVDS180PW	296-12053-5-ND	HS Differential Line Driver/Receiver	14-TSSOP	2.45	1.97	1.53
SN65LVDS180PWRQ1	296-16949-1-ND	HS Differential Line Driver/Receiver	16-TSSOP	2.66	2.13	1.66
SN65LVDS180PWRQ1	296-16949-2-ND	HS Differential Line Driver/Receiver	16-TSSOP	3010.00/2,000		
SN65LVDS250DBT	296-16931-ND	LVDS 4x4 Crosspoint Switch	38-TSSOP	12.91	11.63	10.31
SN65LVDS250EVM	296-16985-ND	Evaluation Module for SN65LVDS250	—	50.00	—	—
SN65LVDS301ZQE	296-19737-ND	Programmable 27-Bit Display Serial Interface Transmitter	80-BGA	4.73	3.78	2.94
SN65LVDS301ZQER	296-21491-1-ND	Programmable 27-Bit Display Serial Interface Transmitter	80-BGA	4.73	3.78	2.94
SN65LVDS301ZQER	296-21491-2-ND	Programmable 27-Bit Display Serial Interface Transmitter	80-BGA	6615.00/2,500		
SN65LVDS302ZQE	296-19877-ND	Programmable 27-Bit Parallel-to-Serial Receiver	80-BGA	4.73	3.78	2.94
SN65LVDS302ZQER	296-21492-1-ND	Programmable 27-Bit Parallel-to-Serial Receiver	80-BGA	4.73	3.78	2.94
SN65LVDS302ZQER	296-21492-2-ND	Programmable 27-Bit Parallel-to-Serial Receiver	80-BGA	6615.00/2,500		
SN65LVDS303ZQE	296-20724-ND	Programmable 27-Bit Display Serial Interface Transmitter	80-BGA	4.28	3.42	2.66
SN65LVDS303ZQER	296-21493-1-ND	Programmable 27-Bit Display Serial Interface Transmitter	80-BGA	4.28	3.42	2.66
SN65LVDS303ZQER	296-21493-2-ND	Programmable 27-Bit Display Serial Interface Transmitter	80-BGA	5985.00/2,500		
SN65LVDS304ZQER	296-20766-1-ND	Programmable 27-Bit Parallel-to-Serial Receiver	80-BGA	4.28	3.42	2.66
SN65LVDS304ZQER	296-20766-2-ND	Programmable 27-Bit Parallel-to-Serial Receiver	80-BGA	5985.00/2,500		
SN65LVDS305ZQE	296-20725-ND	Programmable 27-Bit Display Serial Interface Transmitter	80-BGA	3.83	3.06	2.38
SN65LVDS305ZQER	296-21245-1-ND	Programmable 27-Bit Display Serial Interface Transmitter	80-BGA	3.83	3.06	2.38
SN65LVDS305ZQER	296-21245-2-ND	Programmable 27-Bit Display Serial Interface Transmitter	80-BGA	5355.00/2,500		
SN65LVDS306ZQER	296-20767-1-ND	Programmable 27-Bit Parallel-to-Serial Receiver	80-BGA	3.83	3.06	2.38
SN65LVDS306ZQER	296-20767-2-ND	Programmable 27-Bit Parallel-to-Serial Receiver	80-BGA	5355.00/2,500		
SN65LVDS307ZQCR	296-21806-1-ND	Programmable 27-Bit Parallel-to-Serial Transmitter	48-BGA	3.83	3.06	2.38
SN65LVDS307ZQCR	296-21806-2-ND	Programmable 27-Bit Parallel-to-Serial Transmitter	48-BGA	5355.00/2,500		
SN65LVDS308ZQCR	296-21807-1-ND	Programmable 27-Bit Parallel-to-Serial Receiver	48-BGA	3.83	3.06	2.38
SN65LVDS308ZQCR	296-21807-2-ND	Programmable 27-Bit Parallel-to-Serial Receiver	48-BGA	5355.00/2,500		
SN65LVDS310ZQCR	296-21963-1-ND	Programmable 27-Bit Serial-to-Parallel Receiver	48-BGA	3.60	2.88	2.24
SN65LVDS310ZQCR	296-21963-2-ND	Programmable 27-Bit Serial-to-Parallel Receiver	48-BGA	5040.00/2,500		
SN65LVDS315RGER	296-23316-1-ND	Camera Parallel RGB to MIPI CSI-1 Serial Converter ***NEW!***	24-VQFN	3.83	3.06	2.38
SN65LVDS315RGER	296-23316-2-ND	Camera Parallel RGB to MIPI CSI-1 Serial Converter ***NEW!***	24-VQFN	6426.00/3,000		
SN65LVDS348D	296-12735-5-ND	Quad High Speed Diff. Receiver	16-SOIC	3.02	2.42	1.88
SN65LVDS348PW	296-12648-5-ND	Quad High Speed Diff. Receiver	16-TSSOP	3.02	2.42	1.88
SN65LVDS352PW	296-12649-5-ND	Quad High Speed Diff. Receiver	16-TSSOP	3.40	2.72	2.12
SN65LVDS386DGG	296-2353-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.32	7.46	6.30
SN65LVDS386DGGR	296-2353-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.32	7.46	6.30
SN65LVDS386DGGR	296-2353-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	11650.00/2,000		
SN65LVDS386EVM	296-9745-ND	Evaluation Module for SN65LVDS386	—	50.00	—	—
SN65LVDS387DGG	296-2354-5-ND	16-Ch., High Speed Diff. Driver	64-TSSOP	9.32	7.46	6.30
SN65LVDS387EVM	296-9746-ND	Evaluation Module for SN65LVDS387	—	50.00	—	—
SN65LVDS388ADBT	296-6926-5-ND	Octal LVDS Receiver	38-TSSOP	5.49	4.40	3.42
SN65LVDS389DBT	296-2356-5-ND	8-Channel, High Speed Diff. Driver	38-TSSOP	5.49	4.40	3.42

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65LVDS390D	296-6927-5-ND	High Speed Diff. Line Receiver	16-SOIC	2.84	2.27	1.77
SN65LVDS390PW	296-6928-5-ND	High Speed Diff. Line Receiver	16-TSSOP	2.84	2.27	1.77
SN65LVDS391D	296-6929-5-ND	High Speed Differential Driver	16-SOIC	2.84	2.27	1.77
SN65LVDS391PW	296-6930-5-ND	High Speed Differential Driver	16-TSSOP	2.84	2.27	1.77
SN65LVDS1050PW	296-6916-5-ND	HS Differential Line Receiver	16-TSSOP	3.78	3.03	2.36
SN65LVDS3486BDR	296-6925-1-ND	Quad LVDS Receiver	16-SOIC	3.40	2.72	2.12
SN65LVDS3486BDR	296-6925-2-ND	Quad LVDS Receiver	16-SOIC	4757.50/2,500		
SN65LVDS3486D	296-1427-5-ND	High Speed Differential Line Receiver	16-SOIC	2.84	2.27	1.77
SN65LVDS3487D	296-1428-5-ND	Quad High Speed Diff. Line Driver	16-SOIC	2.84	2.27	1.77
SN65LVDS9637BDR	296-6931-1-ND	Dual LVDS Receiver	8-SOIC	2.43	1.94	1.46
SN65LVDS9637BDR	296-6931-2-ND	Dual LVDS Receiver	8-SOIC	3105.00/2,500		
SN65LVDS9637D	296-1432-5-ND	Dual High Speed Differential Receiver	8-SOIC	2.43	1.94	1.46
SN65LVDS9637DGK	296-12003-5-ND	Dual HS Differential Receiver	8-MSOP	2.43	1.94	1.46
SN65LVDS9637DGKR	296-12003-1-ND	Dual HS Differential Receiver	8-MSOP	2.43	1.94	1.46
SN65LVDS9637DGKR	296-12003-2-ND	Dual HS Differential Receiver	8-MSOP	3105.00/2,500		
SN65LVDS9637DGN	296-6932-5-ND	Dual HS Differential Receiver	8-MSOP	2.27	1.82	1.42
SN65LVDS9638D	296-1433-5-ND	Dual High Speed Differential Driver	8-SOIC	2.43	1.94	1.46
SN65LVDS9638DGKR	296-12004-1-ND	Dual High Speed Differential Driver	8-MSOP	2.43	1.94	1.46
SN65LVDS9638DGKR	296-12004-2-ND	Dual High Speed Differential Driver	8-MSOP	3105.00/2,500		
SN65LVDS9638DGN	296-6933-5-ND	Dual High Speed Differential Driver	8-MSOP	2.27	1.82	1.42
SN75LVDS31D	296-12325-5-ND	Quad High Speed Differential Driver	16-SOIC	2.66	2.13	1.66
SN75LVDS31PW	296-12005-5-ND	Quad High Speed Differential Driver	16-TSSOP	2.66	2.13	1.66
SN75LVDS31PWR	296-12005-1-ND	Quad High Speed Differential Driver	16-TSSOP	2.66	2.13	1.66
SN75LVDS31PWR	296-12005-2-ND	Quad High Speed Differential Driver	16-TSSOP	3010.00/2,000		
SN75LVDS32D	296-12326-5-ND	Quad High Speed Differential Driver	16-SOIC	2.66	2.13	1.66
SN75LVDS32PW	296-13328-5-ND	Quad High Speed Differential Driver	16-TSSOP	2.66	2.13	1.66
SN75LVDS82DGGR	296-6666-1-ND	Flatlink™ Receiver	56-TSSOP	4.25	3.41	2.65
SN75LVDS82DGGR	296-6666-2-ND	Flatlink™ Receiver	56-TSSOP	4820.00/2,000		
SN75LVDS83DGG	296-6667-5-ND	Flatlink™ Transmitter	56-TSSOP	3.40	2.72	2.12
SN75LVDS84ADGGR	296-6668-1-ND	Flatlink™ Transmitter	48-TSSOP	3.40	2.72	2.12
SN75LVDS84ADGGR	296-6668-2-ND	Flatlink™ Transmitter	48-TSSOP	3850.00/2,000		
SN75LVDS86ADGG	296-1998-5-ND	Flatlink™ Receiver	48-TSSOP	4.07	3.26	2.54
SN75LVDS86ADGGR	296-6671-1-ND	Flatlink™ Receiver	48-TSSOP	4.07	3.26	2.54
SN75LVDS86ADGGR	296-6671-2-ND	Flatlink™ Receiver	48-TSSOP	4616.00/2,000		
SN75LVDS86DGG	296-6672-5-ND	Flatlink™ Receiver	48-TSSOP	3.87	3.10	2.41
SN75LVDS88BPFD	296-6673-5-ND	FT LCD-Panel Timing Controller with LVDS Interface	100-HTQFP	7.14	5.72	4.82
SN75LVDS050D	296-12321-5-ND	Dual Low Voltage Diff. Driver/Rcvr.	16-SOIC	3.22	2.58	2.01
SN75LVDS051D	296-12322-5-ND	Dual Low Voltage Diff. Driver/Rcvr.	16-SOIC	3.22	2.58	2.01
SN75LVDS179D	296-12323-5-ND	Low Voltage Diff. Driver/Receiver	8-SOIC	2.43	1.94	1.46
SN75LVDS180D	296-12324-5-ND	Low Voltage Diff. Driver/Receiver	14-SOIC	2.27	1.82	1.42
SN75LVDS386DGG	296-9975-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.14	6.52	5.50
SN75LVDS386DGGR	296-9975-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.14	6.52	5.50
SN75LVDS386DGGR	296-9975-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	10176.00/2,000		
SN75LVDS387DGG	296-2367-5-ND	16-Ch., High Speed Diff. Driver	64-TSSOP	8.14	6.52	5.50
SN75LVDS389DBT	296-2369-5-ND	8-Channel, High Speed Diff. Driver	38-TSSOP	5.49	4.40	3.42
SN75LVDS9637D	296-12327-5-ND	Dual High Speed Differential Receiver	8-SOIC	2.43	1.94	1.46
SN75LVDS9638D	296-12328-5-ND	Dual High Speed Differential Driver	8-SOIC	2.43	1.94	1.46

LVDT

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65LVDT2D	296-12140-5-ND	High Speed Diff. Line Receiver	8-SOIC	1.48	1.18	.89
SN65LVDT2DBVR	296-6896-1-ND	High Speed Diff. Line Receiver	SOT-23-5	1.17	.98	.78
SN65LVDT2DBVR	296-6896-2-ND	High Speed Diff. Line Receiver	SOT-23-5	1521.00/3,000		
SN65LVDT14PW	296-12736-5-ND	High Speed Diff. Driver/Receiver	20-TSSOP	4.93	3.95	3.07
SN65LVDT14QPWREP	296-19499-1-ND	High Speed Diff. Driver/Receiver	20-TSSOP	6.26	5.01	4.23
SN65LVDT14QPWREP	296-19499-2-ND	High Speed Diff. Driver/Receiver	20-TSSOP	7826.00/2,000		
SN65LVDT32BDR	296-6897-1-ND	Quad LVDS Receiver	16-SOIC	4.73	3.78	2.94
SN65LVDT32BDR	296-6897-2-ND	Quad LVDS Receiver	16-SOIC	6615.00/2,500		
SN65LVDT33D	296-9749-5-ND	Quad, High Speed Diff. Receiver	16-SOIC	3.02	2.42	1.88
SN65LVDT33PW	296-9750-5-ND	Quad, High Speed Diff. Receiver	16-TSSOP	3.02	2.42	1.88
SN65LVDT34D	296-9751-5-ND	Dual, High Speed Diff. Receiver	8-SOIC	2.43	1.94	1.46
SN65LVDT41PW	296-12738-5-ND	High Speed Diff. Driver/Receiver	20-TSSOP	4.93	3.95	3.07
SN65LVDT41QPWREP	296-21246-1-ND	High Speed Diff. Driver/Receiver	20-TSSOP	6.26	5.01	4.23
SN65LVDT41QPWREP	296-21246-2-ND	High Speed Diff. Driver/Receiver	20-TSSOP	7826.00/2,000		
SN65LVDT100D	296-15389-5-ND	2Gbps Diff. Translator/Repeater	8-SOIC	5.45	4.36	3.39
SN65LVDT100DGK	296-15390-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	5.45	4.36	3.39
SN65LVDT101D	296-15391-5-ND	2Gbps Diff. Translator/Repeater	8-SOIC	5.45	4.36	3.39
SN65LVDT101DGK	296-15392-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	5.45	4.36	3.39
SN65LVDT122D	296-13652-5-ND	1.5Gbps, 2x2 LVDS Crosspoint Switch	16-SOIC	9.02	7.22	6.09
SN65LVDT122PW	296-13653-5-ND	1.5Gbps, 2x2 LVDS Crosspoint Switch	16-TSSOP	9.02	7.22	6.09
SN65LVDT125ADBT	296-16979-ND	1.5Gbps, 4x4 LVDS Crosspoint Switch	38-TSSOP	12.25	11.03	9.78
SN65LVDT250DBT	296-16932-ND	LVDS 4x4 Crosspoint Switch	38-TSSOP	12.91	11.63	10.31
SN65LVDT348D	296-12737-5-ND	Quad, HS Differential Receiver	16-SOIC	3.02	2.42	1.88
SN65LVDT348PW	296-12650-5-ND	Quad, HS Differential Receiver	16-TSSOP	3.02	2.42	1.88
SN65LVDT352PW	296-12651-5-ND	Quad, HS Differential Receiver	16-TSSOP	3.40	2.72	2.12
SN65LVDT386DGG	296-2360-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.32	7.46	6.30
SN65LVDT386DGGR	296-2360-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.32	7.46	6.30
SN65LVDT386DGGR	296-2360-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	11650.00/2,000		
SN65LVDT388ADBT	296-6899-5-ND	Octal LVDS Receiver	38-TSSOP	5.49	4.40	3.42
SN65LVDT390D	296-6900-5-ND	High Speed Diff. Line Receiver	16-SOIC	2.84	2.27	1.77
SN65LVDT390PW	296-6901-5-ND	High Speed Diff. Line Receiver	16-TSSOP	2.84	2.27	1.77
SN65LVDT3486BDR	296-6898-1-ND	Quad LVDS Receiver	16-SOIC	3.40	2.72	2.12
SN65LVDT3486BDR	296-6898-2-ND	Quad LVDS Receiver	16-SOIC	4757.50/2,500		
SN65LVDT9637BDR	296-6902-1-ND	Dual LVDS Receiver	8-SOIC	4.25	3.41	2.65
SN65LVDT9637BDR	296-6902-2-ND	Dual LVDS Receiver	8-SOIC	5952.50/2,500		
SN75LVDT386DGG	296-2370-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.14	6.52	5.50
SN75LVDT386DGGR	296-2370-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.14	6.52	5.50
SN75LVDT386DGGR	296-2370-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	10176.00/2,000		
SN75LVDT1422PAG	296-18076-ND	14-Bit Full Duplex Serializer/ Deserializer	64-TQFP	7.40	5.92	5.00

LVP

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65LVP16DRFT	296-17445-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	5.70	4.56	3.85
SN65LVP16DRFT	296-17445-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	926.25/250		
SN65LVP16EVM	296-18530-ND	Evaluation Module for SN65LVP16	—	50.00	—	—
SN65LVP17DRFT	296-17446-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	5.70	4.56	3.85
SN65LVP17DRFT	296-17446-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	926.25/250		
SN65LVP17EVM	296-21008-ND	Evaluation Module for SN65LVP17	—	50.00	—	—
SN65LVP18DRFT	296-17447-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	4.84	3.87	3.01
SN65LVP18DRFT	296-17447-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	715.00/250		
SN65LVP18EVM	296-19430-ND	Evaluation Module for SN65LVP18	—	50.00	—	—
SN65LVP19DRFT	296-17448-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	4.84	3.87	3.01

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65LVP19DRFT	296-17448-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	715.00/250		
SN65LVP19EVM	296-21009-ND	Evaluation Module for SN65LVP19	—	50.00	—	—
SN65LVP20DRFT	296-17177-1-ND	LVPECL Repeater/Translator	8-SOIC	9.70	7.76	6.55
SN65LVP20DRFT	296-17177-2-ND	LVPECL Repeater/Translator	8-SOIC	1576.25/250		
SN65LVP20EVM	296-18531-ND	Evaluation Module for SN65LVP20	—	50.00	—	—

MLVD Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MLVD20XEVM	296-13552-ND	Evaluation Module for SN65MLVD20X	—	101.00	—	—
SN65MLVD2DRBT	296-21313-1-ND	Single M-LVDS Receiver	8-SON	3.60	2.88	2.24
SN65MLVD2DRBT	296-21313-2-ND	Single M-LVDS Receiver	8-SON	532.00/250		
SN65MLVD3DRBT	296-21314-1-ND	Single M-LVDS Receiver	8-SON	3.60	2.88	2.24
SN65MLVD3DRBT	296-21314-2-ND	Single M-LVDS Receiver	8-SON	532.00/250		
SN65MLVD047AD	296-20682-5-ND	MLVDS Quad Diff. Line Driver	16-SOIC	3.26	2.61	2.03
SN65MLVD047APW	296-20683-5-ND	MLVDS Quad Diff. Line Driver	16-TSSOP	3.26	2.61	2.03
SN65MLVD047D	296-16855-5-ND	MLVDS Quad Diff. Line Driver	16-SOIC	3.26	2.61	2.03
SN65MLVD047PW	296-16856-ND	MLVDS Quad Diff. Line Driver	16-TSSOP	3.26	2.61	2.03
SN65MLVD080DGG	296-15783-5-ND	8-Ch. Half-Duplex Multipoint LVDS Line Transceiver	64-TSSOP	9.50	7.60	6.42
SN65MLVD082DGG	296-15833-5-ND	8-Ch. Half-Duplex Multipoint LVDS Line Transceiver	64-TSSOP	9.50	7.60	6.42
SN65MLVD128DGG	296-16849-ND	1:8 LVTTL to MLVDS Repeater	48-TSSOP	7.60	6.08	5.13
SN65MLVD129DGG	296-16850-ND	Dual 1:4 LVTTL to MLVDS Repeater	48-TSSOP	7.60	6.08	5.13
SN65MLVD200AD	296-16667-5-ND	MLVDS Line Driver/Receiver	8-SOIC	3.13	2.51	1.95
SN65MLVD200D	296-12207-5-ND	High Speed Diff. Line Driver/Receiver	8-SOIC	3.13	2.51	1.95
SN65MLVD201D	296-14187-5-ND	Multipoint LVDS Line Driver/Receiver	8-SOIC	3.69	2.96	2.30
SN65MLVD202AD	296-16668-5-ND	MLVDS Line Driver/Receiver	14-SOIC	3.13	2.51	1.95
SN65MLVD202D	296-12208-5-ND	High Speed Diff. Line Driver/Receiver	14-SOIC	3.13	2.51	1.95
SN65MLVD203D	296-14188-5-ND	Multipoint LVDS Line Driver/Receiver	14-SOIC	3.69	2.96	2.30
SN65MLVD204AD	296-16669-5-ND	MLVDS Line Driver/Receiver	8-SOIC	3.13	2.51	1.95
SN65MLVD204D	296-12209-5-ND	High Speed Diff. Line Driver/Receiver	8-SOIC	3.13	2.51	1.95
SN65MLVD205AD	296-16670-5-ND	MLVDS Line Driver/Receiver	14-SOIC	3.13	2.51	1.95
SN65MLVD205D	296-12210-5-ND	High Speed Diff. Line Driver/Receiver	14-SOIC	3.13	2.51	1.95
SN65MLVD206D	296-14189-5-ND	Multipoint LVDS Line Driver/Receiver	8-SOIC	3.69	2.96	2.30
SN65MLVD207D	296-14190-5-ND	Multipoint LVDS Line Driver/Receiver	14-SOIC	3.69	2.96	2.30

RS422 / RS423 / RS485

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AM26C31CD	296-6781-5-ND	Quad Differential Line Driver	16-SOIC	.86	.65	.49
AM26C31CDBR	296-6782-1-ND	Quad Differential Line Driver	16-SSOP	.90	.75	.60
AM26C31CDBR	296-6782-2-ND	Quad Differential Line Driver	16-SSOP	798.00/2,000		
AM26C31CN	296-6783-5-ND	Quad Differential Line Driver	16-Dip	1.20	1.00	.80
AM26C31ID	296-6784-5-ND	Quad Differential Line Driver	16-SOIC	.90	.68	.51
AM26C31IN	296-6785-5-ND	Quad Differential Line Driver	16-Dip	1.35	1.13	.90
AM26C31QD	296-13867-5-ND	Quad Differential Line Driver	16-SOIC	2.95	2.36	1.84
AM26C31QDRG4	296-22029-1-ND	Quad Diff. Line Driver ***NEW!***	16-SOIC	2.99	2.40	1.87
AM26C31QDRG4	296-22029-2-ND	Quad Diff. Line Driver ***NEW!***	16-SOIC	4190.00/2,500		
AM26C32CD	296-6786-5-ND	Quad Differential Line Receiver	16-SOIC	1.20	1.00	.80
AM26C32CN	296-6787-5-ND	Quad Differential Line Receiver	16-Dip	1.20	1.00	.80
AM26C32ID	296-6788-5-ND	Quad Differential Line Receiver	16-SOIC	.90	.68	.51
AM26C32IDR	296-14471-1-ND	Quad Differential Line Receiver	16-SOIC	.90	.68	.51
AM26C32IDR	296-14471-2-ND	Quad Differential Line Receiver	16-SOIC	735.00/2,500		
AM26C32IN	296-6789-5-ND	Quad Differential Line Receiver	16-Dip	1.35	1.13	.90
AM26C32QD	296-13868-5-ND	Quad Differential Line Receiver	16-SOIC	2.95	2.36	1.84
AM26LS31CD	296-1010-5-ND	Quad Differential Line Driver	16-SOIC	.75	.57	.43
AM26LS31CDR	296-1010-1-ND	Quad Differential Line Driver	16-SOIC	.75	.57	.43
AM26LS31CDR	296-1010-2-ND	Quad Differential Line Driver	16-SOIC	607.50/2,500		
AM26LS31CN	296-1374-5-ND	Quad Differential Line Driver	16-Dip	.75	.57	.43
AM26LS32ACD	296-1011-5-ND	Quad Differential Line Receiver	16-SOIC	.62	.47	.35
AM26LS32ACDR	296-1011-1-ND	Quad Differential Line Receiver	16-SOIC	.62	.47	.35
AM26LS32ACDR	296-1011-2-ND	Quad Differential Line Receiver	16-SOIC	500.00/2,500		
AM26LS32ACN	296-1376-5-ND	Quad Differential Line Receiver	16-Dip	.62	.47	.35
AM26LS32ACNSR	296-6790-1-ND	Quad Differential Line Receiver	16-SOP	.75	.63	.50
AM26LS32ACNSR	296-6790-2-ND	Quad Differential Line Receiver	16-SOP	666.00/2,000		
AM26LS32AIDR	296-13065-1-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26LS32AIDR	296-13065-2-ND	Quad Differential Line Receiver	16-SOIC	650.00/2,500		
AM26LS32AIN	296-13066-5-ND	Quad Differential Line Receiver	16-Dip	.80	.60	.45
AM26LS32AMDREP	296-22084-1-ND	Quad Diff. Line Receiver ***NEW!***	16-SOIC	2.59	2.07	1.61
AM26LS32AMDREP	296-22084-2-ND	Quad Diff. Line Receiver ***NEW!***	16-SOIC	3622.50/2,500		
AM26LS33ACD	296-6791-5-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26LS33ACDR	296-14473-1-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26LS33ACDR	296-14473-2-ND	Quad Differential Line Receiver	16-SOIC	650.00/2,500		
AM26LS33ACN	296-6792-5-ND	Quad Differential Line Receiver	16-Dip	.80	.60	.45
AM26LV31CD	296-6793-5-ND	Quad Differential Line Driver	16-SOIC	.90	.75	.60
AM26LV31IDR	296-18088-1-ND	Quad Differential Line Driver	16-SOIC	1.20	1.00	.80
AM26LV31IDR	296-18088-2-ND	Quad Differential Line Driver	16-SOIC	1300.00/2,500		
AM26LV31INSR	296-18089-1-ND	Quad Differential Line Driver	16-SOIC	1.32	1.10	.88
AM26LV31INSR	296-18089-2-ND	Quad Differential Line Driver	16-SOIC	1170.00/2,000		
AM26LV32CD	296-6794-5-ND	Quad Differential Line Receiver	16-SOIC	.90	.75	.60
AM26LV32CDR	296-6794-1-ND	Quad Differential Line Receiver	16-SOIC	.90	.75	.60
AM26LV32CNSR	296-6796-1-ND	Quad Differential Line Receiver	16-SOP	.90	.75	.60
AM26LV32CNSR	296-6796-2-ND	Quad Differential Line Receiver	16-SOP	798.00/2,000		
AM26LV32IDR	296-18090-1-ND	Quad Differential Line Receiver	16-SOIC	1.20	1.00	.80
AM26LV32IDR	296-18090-2-ND	Quad Differential Line Receiver	16-SOIC	1300.00/2,500		
AM26LV32INSR	296-18091-1-ND	Quad Differential Line Receiver	16-SOP	1.20	1.00	.80
AM26LV32INSR	296-18091-2-ND	Quad Differential Line Receiver	16-SOP	1064.00/2,000		
AM26S10CD	296-6797-5-ND	Quad Bus Transceiver	16-SOIC	1.20	1.00	.80
AM26S10CN	296-6798-5-ND	Quad Bus Transceiver	16-Dip	1.32	1.10	.88
M26LV32CDR	296-6794-2-ND	Quad Differential Line Receiver	16-SOP	975.00/2,500		
MC3486D	296-7037-5-ND	Tri-State Quad Diff. Line Receiver	16-SOIC	.66	.50	.38
MC3486DR	296-14624-1-ND	Tri-State Quad Diff. Line Receiver	16-SOIC	.75	.63	.50
MC3486DR	296-14624-2-ND	Tri-State Quad Diff. Line Receiver	16-SOIC	812.50/2,500		
MC3486N	296-7038-5-ND	Tri-State Quad Diff. Line Receiver	16-Dip	.75	.63	.50
MC3487DR	296-14625-1-ND	Quad Differential Line Driver	16-SOIC	.75	.63	.50
MC3487DR	296-14625-2-ND	Quad Differential Line Driver	16-SOIC	812.50/2,500		
MC3487N	296-1408-5-ND	Quad Differential Line Driver	16-Dip	.75	.63	.50
SN65176BDR	296-14636-1-ND	Differential Bus Transceiver	8-SOIC	.66	.50	.38
SN65C1167ENSR	296-21707-1-ND	Dual Differential Driver/Receiver	16-SOIC	2.93	2.34	1.82
SN65C1167ENSR	296-21707-2-ND	Dual Differential Driver/Receiver	16-SOIC	3316.00/2,000		
SN65C1167EPWR	296-21708-1-ND	Dual Differential Driver/Receiver	16-SOIC	2.93	2.34	1.82
SN65C1167EPWR	296-21708-2-ND	Dual Differential Driver/Receiver	16-SOIC	3316.00/2,000		
SN65C1167ERGYR	296-21802-1-ND	Dual Differential Driver/Receiver	16-QFN	3.15	2.52	1.96
SN65C1167ERGYR	296-21802-2-ND	Dual Differential Driver/Receiver	16-QFN	1785.00/1,000		
SN65C1167NSR	296-9699-1-ND	Dual Differential Driver/Receiver	16-SOP	2.93	2.34	1.82
SN65C1167NSR	296-9699-2-ND	Dual Differential Driver/Receiver	16-SOP	3316.00/2,000		
SN65C1168ENSR	296-21709-1-ND	Dual Differential Driver/Receiver	16-SOIC	1.88	1.50	1.13
SN65C1168ENSR	296-21709-2-ND	Dual Differential Driver/Receiver	16-SOIC	1950.00/2,000		
SN65C1168EPWR	296-21710-1-ND	Dual Differential Driver/Receiver	16-SOIC	1.88	1.50	1.13
SN65C1168EPWR	296-21710-2-ND	Dual Differential Driver/Receiver	16-SOIC	1950.00/2,000		
SN65C1168ERGYR	296-21803-1-ND	Dual Differential Driver/Receiver	16-QFN	2.00	1.60	1.20
SN65C1168ERGYR	296-21803-2-ND	Dual Differential Driver/Receiver	16-QFN	1040.00/1,000		
SN65C1168PWR	296-14348-1-ND	Dual Differential Driver/Receiver	16-TSSOP	1.88	1.50	1.13
SN65C1168PWR	296-14348-2-ND	Dual Differential Driver/Receiver	16-TSSOP	1950.00/2,000		
SN65HVD05D	296-12988-5-ND	High Output RS-485 Transceiver	8-SOIC	3.42	2.74	2.13
SN65HVD05P	296-15215-5-ND	High Output RS-485 Transceiver	8-Dip	3.42	2.74	2.13
SN65HVD06D	296-12989-5-ND	High Output RS-485 Transceiver	8-SOIC	3.31	2.65	2.06
SN65HVD06P	296-15095-5-ND	High Output RS-485 Transceiver	8-Dip	3.31	2.65	2.06
SN65HVD07D	296-12990-5-ND	High Output RS-485 Transceiver	8-SOIC	3.22	2.58	2.01
SN65HVD07P	296-19415-5-ND	High Output RS-485 Transceiver	8-Dip	3.22	2.58	2.01
SN65HVD08D	296-14010-5-ND	Wide Supply Range RS-485 Transcvr	8-SOIC	4.28	3.42	2.66
SN65HVD08P	296-14011-5-ND	Wide Supply Range RS-485 Transceiver	8-Dip	4.28	3.42	2.66
SN65HVD10D	296-12645-5-ND	3.3V RS-485 Transceiver	8-SOIC	3.96	3.17	2.47
SN65HVD10QD	296-14012-5-ND	3.3V RS-485 Transceiver	8-SOIC	5.13	4.11	3.20
SN65HVD10QDREP	296-18120-1-ND	3.3V RS-485 Transceiver ***NEW!***	8-SOIC	5.04	4.04	3.41
SN65HVD10QDREP	296-18120-2-ND	3.3V RS-485 Transceiver ***NEW!***	8-SOIC	7812.50/2,500		
SN65HVD11D	296-12646-5-ND	3.3V RS-485 Transceiver	8-SOIC	3.85	3.08	2.40
SN65HVD11P	296-18521-5-ND	3.3V RS-485 Transceiver	8-Dip	3.85	3.08	2.40
SN65HVD11QD	296-14013-5-ND	3.3V RS-485 Transceiver	8-SOIC	4.93	3.95	3.07
SN65HVD12D	296-12647-5-ND	3.3V RS-485 Transceiver	8-SOIC	3.74	2.99	2.33
SN65HVD12IDREP	296-18121-1-ND	3.3V RS-485 Transceiver	8-SOIC	4.01	3.21	2.50
SN65HVD12IDREP	296-18121-2-ND	3.3V RS-485 Transceiver	8-SOIC	5607.50/2,500		
SN65HVD12P	296-13862-5-ND	3.3V RS-485 Transceiver	8-Dip	3.74	2.99	2.33
SN65HVD20D	296-14184-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	3.71	2.97	2.31
SN65HVD21D	296-14185-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	3.71	2.97	2.31
SN65HVD21MDREP	296-19496-1-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	5.90	4.72	3.99
SN65HVD21MDREP	296-19496-2-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	9145.00/2,500		
SN65HVD21P	296-15096-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	3.71	2.97	2.31
SN65HVD22D	296-14186-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	3.71	2.97	2.31
SN65HVD22EVM	296-20538-ND	Evaluation Module for SN65HVD2X Family	—	50.00	—	—
SN65HVD22P	296-15097-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	3.71	2.97	2.31
SN65HVD23D	296-15230-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	4.05	3.24	2.52
SN65HVD23P	296-15231-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	4.05	3.24	2.52
SN65HVD24D	296-15232-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	4.05	3.24	2.52
SN65HVD24P	296-15233-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	4.05	3.24	2.52
SN65HVD30DR	296-19625-1-ND	3.3V Full-Duplex RS-485 Driver and Receiver	8-SOIC	3.85	3.08	2.40
SN65HVD30DR	296-19625-2-ND	3.3V Full-Duplex RS-485 Driver and Receiver	8-SOIC	5387.50/2,500		
SN65HVD30MDREP	296-22238-1-ND	3.3V Full-Duplex RS-485 Driver and Receiver ***NEW!***	8-SOIC	6.12	4.90	4.14
SN65HVD30MDREP	296-22238-2-ND	3.3V Full-Duplex RS-485 Driver and Receiver ***NEW!***	8-SOIC	9485.00/2,500		
SN65HVD31DR	296-19626-1-ND	3.3V Full-Duplex RS-485 Driver and Receiver	8-SOIC	3.85	3.08	2.40
SN65HVD31DR	296-19626-2-ND	3.3V Full-Duplex RS-485 Driver and Receiver	8-SOIC	5387.50/2,500		
SN65HVD32DR	296-19627-1-ND	3.3V Full-Duplex RS-485 Driver and Receiver	8-SOIC	3.85	3.08	2.40
SN65HVD32DR	296-19627-2-ND	3.3V Full-Duplex RS-485 Driver and Receiver	8-SOIC	5387.50/2,500		
SN65HVD33DR	296-18704-1-ND	3.3V Full-Duplex RS-485 Driver and Receiver	14-SOIC	4.16	3.33	2.59
SN65HVD33DR	296-18704-2-ND	3.3V Full-Duplex RS-485 Driver and Receiver	14-SOIC	5827.50/2,500		
SN65HVD33MDREP	296-22239-1-ND	3.3V Full-Duplex RS-485 Driver and Receiver ***NEW!***	14-SOIC	6.30	5.04	4.26
SN65HVD33MDREP	296-22239-2-ND	3.3V Full-Duplex RS-485 Driver and Receiver ***NEW!***	14-SOIC	9765.00/2,500		
SN65HVD34DR	296-18705-1-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	4.16	3.33	2.59
SN65HVD34DR	296-18705-2-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	5827.50/2,500		
SN65HVD35DR	296-18706-1-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	4.16	3.33	2.59
SN65HVD35DR	296-18706-2-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	5827.50/2,500		
SN65HVD50DR	296-19629-1-ND	5V Full-Duplex RS-485 Driver and Receiver	8-SOIC	3.65	2.92	2.27
SN65HVD50DR	296-19629-2-ND	5V Full-Duplex RS-485 Driver and Receiver	8-SOIC	5102.50/2,500		
SN65HVD51DR	296-19630-1-ND	5V Full-Duplex RS-485 Driver and Receiver	8-SOIC	3.65	2.92	2.27
SN65HVD51DR	296-19630-2-ND	5V Full-Duplex RS-485 Driver and Receiver	8-SOIC	5102.50/2,500		
SN65HVD52DR	296-19631-1-ND	5V Full-Duplex RS-485 Driver and Receiver	8-SOIC	3.65	2.92	2.27
SN65HVD52DR	296-19631-2-ND	5V Full-Duplex RS-485 Driver and Receiver	8-SOIC	5102.50/2,500		
SN65HVD53DR	296-18707-1-ND	High Output Full-Duplex RS-485 Transceiver	14-SOIC	3.94	3.15	2.45
SN65HVD53DR	296-18707-2-ND	High Output Full-Duplex RS-485 Transceiver	14-SOIC	5512.50/2,500		
SN65HVD54DR	296-18708-1-ND	High Output Full-Duplex RS-485 Transceiver	14-SOIC	3.94	3.15	2.45
SN65HVD54DR	296-18708-2-ND	High Output Full-Duplex RS-485 Transceiver	14-SOIC	5512.50/2,500		
SN65HVD55DR	296-18709-1-ND	High Output Full-Duplex RS-485 Transceiver	14-SOIC	3.94	3.15	2.45
SN65HVD55DR	296-18709-2-ND	High Output Full-Duplex RS-485 Transceiver	14-SOIC	5512.50/2,500		
SN65HVD61D	296-21593-5-ND	ControlNet™ Transceiver	14-SOIC	9.50	7.60	6.42
SN65HVD179DR	296-19624-1-ND	5V Full-Duplex RS-485/RS-422 Driver and Balanced Receiver	8-SOIC	3.96	3.17	2.47
SN65HVD179DR	296-19624-2-ND	5V Full-Duplex RS-485/RS-422 Driver and Balanced Receiver	8-SOIC	5545.00/2,500		
SN65HVD230DR	296-11654-1-ND	3.3V CAN Transcvr with Standby Mode	8-SOIC	3.04	2.43	1.89

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN65HVD230DR	296-11654-2-ND	3.3V CAN Transcvr with Standby Mode	8-SOIC	4252.50/2,500		
SN65HVD230MDREP	296-20723-1-ND	3.3V CAN Transcvr with Standby Mode	8-SOIC	5.14	4.12	3.47
SN65HVD230MDREP	296-20723-2-ND	3.3V CAN Transcvr with Standby Mode	8-SOIC	7967.50/2,500		
SN65HVD230QD	296-13123-5-ND	3.3V CAN Transcvr with Standby Mode	8-SOIC	3.49	2.79	2.17
SN65HVD231D	296-12206-5-ND	3.3V CAN Transcvr with Sleep Mode	8-SOIC	3.04	2.43	1.89
SN65HVD231QD	296-12704-5-ND	3.3V CAN Transcvr with Sleep Mode	8-SOIC	3.49	2.79	2.17
SN65HVD231QDRQ1	296-15380-1-ND	3.3V CAN Transcvr with Sleep Mode	8-SOIC	3.60	2.88	2.24
SN65HVD231QDRQ1	296-15380-2-ND	3.3V CAN Transcvr with Sleep Mode	8-SOIC	5040.00/2,500		
SN65HVD232D	296-12282-5-ND	3.3V CAN Transceiver	8-SOIC	2.93	2.34	1.82
SN65HVD232QD	296-12705-5-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC	3.38	2.70	2.10
SN65HVD232QDRQ1	296-15381-1-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC	3.38	2.70	2.10
SN65HVD232QDRQ1	296-15381-2-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC	4725.00/2,500		
SN65HVD233D	296-14639-5-ND	3.3V CAN Transceiver	8-SOIC	3.38	2.70	2.10
SN65HVD234D	296-15228-5-ND	3.3V CAN Transceiver	8-SOIC	3.26	2.61	2.03
SN65HVD235D	296-15229-5-ND	3.3V CAN Transceiver	8-SOIC	3.38	2.70	2.10
SN65HVD251D	296-13816-5-ND	CAN Transceiver	8-SOIC	2.25	1.80	1.35
SN65HVD251DRG4	296-21805-1-ND	CAN Transceiver	8-SOIC	2.25	1.80	1.35
SN65HVD251DRG4	296-21805-2-ND	CAN Transceiver	8-SOIC	2880.00/2,500		
SN65HVD251P	296-19281-5-ND	CAN Transceiver	8-Dip	2.25	1.80	1.35
SN65HVD379DR	296-19628-1-ND	3.3V Full-Duplex RS-485/RS-422 Driver and Balanced Receiver	8-SOIC	4.16	3.33	2.59
SN65HVD379DR	296-19628-2-ND	3.3V Full-Duplex RS-485/RS-422 Driver and Balanced Receiver	8-SOIC	5827.50/2,500		
SN65HVD485EDGKR	296-17174-1-ND	Half-Duplex RS-485 Transceiver	8-MSOP	2.38	1.90	1.43
SN65HVD485EDGKR	296-17174-2-ND	Half-Duplex RS-485 Transceiver	8-MSOP	3040.00/2,500		
SN65HVD485EDR	296-17175-1-ND	Half-Duplex RS-485 Transceiver	8-SOIC	1.68	1.34	1.01
SN65HVD485EDR	296-17175-2-ND	Half-Duplex RS-485 Transceiver	8-SOIC	2145.00/2,500		
SN65HVD485EP	296-17498-5-ND	Half-Duplex RS-485 Transceiver	8-Dip	1.68	1.34	1.01
SN65HVD1040DR	296-21804-1-ND	Low Power CAN Transceiver	8-SOIC	1.75	1.40	1.05
SN65HVD1040DR	296-21804-2-ND	Low Power CAN Transceiver	8-SOIC	2240.00/2,500		
SN65HVD1040QDRQ1	296-21592-1-ND	Low Power CAN Transceiver	8-SOIC	2.13	1.70	1.28
SN65HVD1040QDRQ1	296-21592-2-ND	Low Power CAN Transceiver	8-SOIC	2720.00/2,500		
SN65HVD1050D	296-19416-5-ND	EMC Optimized CAN Transceiver	8-SOIC	1.38	1.10	.83
SN65HVD1050MDREP	296-21409-1-ND	EMC Optimized CAN Transceiver	8-SOIC	3.15	2.52	1.96
SN65HVD1050MDREP	296-21409-2-ND	EMC Optimized CAN Transceiver	8-SOIC	4410.00/2,500		
SN65HVD1050QDRQ1	296-19876-1-ND	EMC Optimized CAN Transceiver	8-SOIC	1.63	1.30	.98
SN65HVD1050QDRQ1	296-19876-2-ND	EMC Optimized CAN Transceiver	8-SOIC	2080.00/2,500		
SN65HVD1176D	296-15345-5-ND	Profibus RS-485 Transceiver	8-SOIC	3.31	2.65	2.06
SN65HVD1781DR	296-23118-1-ND	70V Fault-Protected RS-485 Transceiver ***NEW!***	8-SOIC	4.16	3.33	2.59
SN65HVD1781DR	296-23118-2-ND	70V Fault-Protected RS-485 Transceiver ***NEW!***	8-SOIC	5827.50/2,500		
SN65HVD1785D	296-23346-5-ND	70V Fault-Protected RS-485 Transceiver ***NEW!***	8-SOIC	4.16	3.33	2.59
SN65HVD1786D	296-23347-5-ND	70V Fault-Protected RS-485 Transceiver ***NEW!***	8-SOIC	4.16	3.33	2.59
SN65HVD1787D	296-23348-5-ND	70V Fault-Protected RS-485 Transceiver ***NEW!***	8-SOIC	4.16	3.33	2.59
SN65HVD3080EDGSR	296-21410-1-ND	200Kbps, Low Power RS-485 Full Duplex Driver/Receiver	10-MSOP	2.36	1.89	1.47
SN65HVD3080EDGSR	296-21410-2-ND	200Kbps, Low Power RS-485 Full Duplex Driver/Receiver	10-MSOP	3307.50/2,500		
SN65HVD3082ED	296-14640-5-ND	Low Power RS-485 Transceiver	8-SOIC	2.15	1.72	1.29
SN65HVD3082EDGK	296-17929-ND	Low Power RS-485 Transceiver	8-MSOP	2.57	2.06	1.60
SN65HVD3082EP	296-15382-5-ND	Low Power RS-485 Transceiver	8-Dip	2.15	1.72	1.29
SN65HVD3083EDGSR	296-21411-1-ND	1Mbps, Low Power RS-485 Full Duplex Driver/Receiver	10-MSOP	2.68	2.15	1.67
SN65HVD3083EDGSR	296-21411-2-ND	1Mbps, Low Power RS-485 Full Duplex Driver/Receiver	10-MSOP	3747.50/2,500		
SN65HVD3085ED	296-17170-5-ND	Low Power RS-485 Transceiver	8-SOIC	2.15	1.72	1.29
SN65HVD3085EDGK	296-17171-5-ND	Low Power RS-485 Transceiver	8-MSOP	2.57	2.06	1.60
SN65HVD3086EDGSR	296-21412-1-ND	20Mbps, Low Power RS-485 Full Duplex Driver/Receiver	10-MSOP	2.99	2.40	1.87
SN65HVD3086EDGSR	296-21412-2-ND	20Mbps, Low Power RS-485 Full Duplex Driver/Receiver	10-MSOP	4190.00/2,500		
SN65HVD3088ED	296-17172-5-ND	Low Power RS-485 Transceiver	8-SOIC	2.38	1.90	1.43
SN65HVD3088EDGK	296-17173-5-ND	Low Power RS-485 Transceiver	8-MSOP	2.79	2.24	1.74
SN65LBC031D	296-9700-5-ND	High Speed CAN Transceiver	8-SOIC	3.38	2.70	2.10
SN65LBC031DG4	296-22063-5-ND	High Speed CAN Transceiver ***NEW!***	8-SOIC	3.38	2.70	2.10
SN65LBC031QD	296-9701-5-ND	High Speed CAN Transceiver	8-SOIC	3.94	3.15	2.45
SN65LBC031QDR	296-9701-1-ND	High Speed CAN Transceiver	8-SOIC	3.94	3.15	2.45
SN65LBC031QDR	296-9701-2-ND	High Speed CAN Transceiver	8-SOIC	5512.50/2,500		
SN65LBC170DB	296-9702-5-ND	Triple Differential Transceiver	16-SSOP	6.64	5.32	4.49
SN65LBC170DW	296-9703-5-ND	Triple Differential Transceiver	20-SOIC	6.64	5.32	4.49
SN65LBC171DB	296-9704-5-ND	Triple Differential Transceiver	16-SSOP	6.64	5.32	4.49
SN65LBC171DW	296-9705-5-ND	Triple Differential Transceiver	20-SOIC	6.64	5.32	4.49
SN65LBC172A16DW	296-15174-5-ND	Quad LP Differential Line Driver	16-SOIC	3.87	3.10	2.41
SN65LBC172ADW	296-9706-5-ND	Quad LP Differential Line Driver	20-SOIC	3.87	3.10	2.41
SN65LBC172AN	296-12283-5-ND	Quad LP Differential Line Driver	16-Dip	3.87	3.10	2.41
SN65LBC172DW	296-9707-5-ND	Quad LP Differential Line Driver	20-SOIC	3.40	2.72	2.12
SN65LBC172N	296-9708-5-ND	Quad LP Differential Line Driver	16-Dip	3.40	2.72	2.12
SN65LBC173AD	296-9709-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.84	2.27	1.77
SN65LBC173AN	296-9710-5-ND	Quad LP Differential Line Receiver	16-Dip	2.84	2.27	1.77
SN65LBC173D	296-9711-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.27	1.82	1.42
SN65LBC173N	296-9712-5-ND	Quad LP Differential Line Receiver	16-Dip	2.27	1.82	1.42
SN65LBC174A16DW	296-15175-5-ND	Quad RS-485 Differential Line Driver	16-SOIC	4.34	3.48	2.71
SN65LBC174ADW	296-9713-5-ND	Quad Rs-485 Differential Line Driver	20-SOIC	4.34	3.48	2.71
SN65LBC174AMDWREP	296-22240-1-ND	Quad RS-485 Diff. Line Driver ***NEW!***	20-SOIC	8.50	6.80	5.74
SN65LBC174AMDWREP	296-22240-2-ND	Quad RS-485 Diff. Line Driver ***NEW!***	20-SOIC	10626.00/2,000		
SN65LBC174AN	296-12284-5-ND	Quad RS-485 Differential Line Driver	16-Dip	4.34	3.48	2.71
SN65LBC174DW	296-9714-5-ND	Quad RS-485 Differential Line Driver	20-SOIC	3.69	2.96	2.30
SN65LBC174N	296-9715-5-ND	Quad RS-485 Differential Line Driver	16-Dip	3.69	2.96	2.30
SN65LBC175AD	296-9716-5-ND	Quad RS-485 Diff. Line Receiver	16-SOIC	2.66	2.13	1.66
SN65LBC175AN	296-13124-5-ND	Quad RS-485 Diff. Line Receiver	16-Dip	2.66	2.13	1.66
SN65LBC175D	296-9717-5-ND	Quad RS-485 Diff. Line Receiver	16-SOIC	2.30	1.84	1.38
SN65LBC175DW	296-12460-5-ND	Quad RS-485 Diff. Line Receiver	16-SOIC	2.30	1.84	1.38
SN65LBC175N	296-9718-5-ND	Quad RS-485 Differential Line Receiver	16-Dip	2.30	1.84	1.38
SN65LBC176AD	296-9719-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	2.30	1.84	1.38
SN65LBC176AMDREP	296-19497-1-ND	Quad LP Diff. Bus Transceiver ***NEW!***	8-SOIC	6.12	4.90	4.14
SN65LBC176AMDREP	296-19497-2-ND	Quad LP Diff. Bus Transceiver ***NEW!***	8-SOIC	9485.00/2,500		
SN65LBC176AP	296-9720-5-ND	Quad LP Differential Bus Transceiver	8-Dip	2.30	1.84	1.38
SN65LBC176AQD	296-9721-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	2.30	1.84	1.38
SN65LBC176AQDREP	296-22241-1-ND	Quad LP Diff. Bus Transceiver ***NEW!***	8-SOIC	3.67	2.94	2.29
SN65LBC176AQDREP	296-22241-2-ND	Quad LP Diff. Bus Transceiver ***NEW!***	8-SOIC	5135.00/2,500		
SN65LBC176D	296-9722-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	1.78	1.42	1.07
SN65LBC176P	296-9723-5-ND	Quad LP Differential Bus Transceiver	8-Dip	1.78	1.42	1.07
SN65LBC176QD	296-9724-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	1.78	1.42	1.07
SN65LBC176QDRG4	296-22040-1-ND	Quad LP Diff. Bus Transceiver ***NEW!***	8-SOIC	1.78	1.42	1.07
SN65LBC176QDRG4	296-22040-2-ND	Quad LP Diff. Bus Transceiver ***NEW!***	8-SOIC	2272.50/2,500		
SN65LBC176QDRQ1	296-16947-1-ND	Quad LP Differential Bus Transceiver	8-SOIC	1.90	1.52	1.14
SN65LBC176QDRQ1	296-16947-2-ND	Quad LP Differential Bus Transceiver	8-SOIC	2432.50/2,500		
SN65LBC179AD	296-9725-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOIC	1.90	1.52	1.14
SN65LBC179AP	296-9726-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-Dip	1.90	1.52	1.14
SN65LBC179D	296-9727-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOIC	1.78	1.42	1.07
SN65LBC179P	296-9728-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-Dip	1.78	1.42	1.07
SN65LBC179QDRG4	296-22544-1-ND	Low Power Diff. Line Driver and Receiver Pair ***NEW!***	8-SOIC	1.90	1.52	1.14
SN65LBC179QDRG4	296-22544-2-ND	Low Power Diff. Line Driver and Receiver Pair ***NEW!***	8-SOIC	2432.50/2,500		
SN65LBC180AD	296-9729-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-SOIC	2.54	2.04	1.59
SN65LBC180AN	296-9730-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-Dip	2.54	2.04	1.59
SN65LBC180D	296-9731-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-SOIC	2.20	1.76	1.32
SN65LBC180N	296-9732-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-Dip	2.20	1.76	1.32
SN65LBC180RSAT	296-19550-1-ND	LP Differential Line Driver/Rcvr. Pairs	16-QFN	2.43	1.94	1.46
SN65LBC180RSAT	296-19550-2-ND	LP Differential Line Driver/Rcvr. Pairs	16-QFN	339.50/250		
SN65LBC182D	296-12167-5-ND	Differential Bus Transceiver	8-SOIC	2.20	1.76	1.32
SN65LBC182P	296-12734-5-ND	Differential Bus Transceiver	8-Dip	2.20	1.76	1.32
SN65LBC184D	296-9733-5-ND	Differential Xcvr. with TVS Protection	8-SOIC	2.93	2.34	1.82
SN65LBC184P	296-2343-5-ND	Differential Xcvr. with TVS Protection	8-Dip	2.93	2.34	1.82
SN65176BD	296-9693-5-ND	Differential Bus Transceiver	8-SOIC	.66	.50	.38
SN65176BP	296-1415-5-ND	Differential Bus Transceiver	8-Dip	.66	.50	.38
SN75HVD12P	296-14047-5-ND	3.3V RS-485 Transceiver	8-Dip	2.99	2.40	1.87
SN75HVD1176D	296-15346-5-ND	Profibus RS-485 Transceiver	8-SOIC	2.99	2.40	1.87
SN75LBC031D	296-6864-5-ND	High Speed Transceiver	8-SOIC	3.38	2.70	2.10
SN75LBC172DW	296-6865-5-ND	Quad LP Differential Line Driver	20-SOIC	3.13	2.51	1.95
SN75LBC172N	296-6866-5-ND	Quad LP Differential Line Driver	16-Dip	3.13	2.51	1.95
SN75LBC173D	296-6867-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.20	1.76	1.32
SN75LBC173N	296-6868-5-ND	Quad LP Differential Line Receiver	16-Dip	2.20	1.76	1.32
SN75LBC174DW	296-6869-5-ND	Quad LP Differential Line Driver	20-SOIC	3.31	2.65	2.06
SN75LBC174N	296-6870-5-ND	Quad LP Differential Line Driver	16-Dip	3.31	2.65	2.06
SN75LBC175D	296-6871-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.10	1.68	1.26
SN75LBC175N	296-6872-5-ND	Quad LP Differential Line Receiver	16-Dip	2.10	1.68	1.26
SN75LBC176AD	296-6873-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	2.10	1.68	1.26
SN75LBC176AP	296-6874-5-ND	Differential Bus Transceiver	8-Dip	2.10	1.68	1.26
SN75LBC176D	296-1279-5-ND	Differential Bus Transceiver	8-SOIC	1.58	1.26	.95
SN75LBC176DR	296-1279-1-ND	Differential Bus Transceiver	8-SOIC	1.58	1.26	.95
SN75LBC176DR	296-1279-2-ND	Differential Bus Transceiver	8-SOIC	2015.00/2,500		
SN75LBC176P	296-6875-5-ND	Differential Bus Transceiver	8-Dip	1.58	1.26	.95
SN75LBC179AD	296-6876-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOIC	1.78	1.42	1.07
SN75LBC179AP	296-6877-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-Dip	1.78	1.42	1.07
SN75LBC179D	296-6878-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOIC	1.58	1.26	.95
SN75LBC179P	296-6879-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-Dip	1.58	1.26	.95
SN75LBC180AD	296-6880-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-SOIC	2.36	1.89	1.47
SN75LBC180AN	296-6881-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-Dip	2.36	1.89	1.47
SN75LBC180D	296-6882-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-SOIC	2.00	1.60	1.20
SN75LBC180N	296-6883-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-Dip	2.00	1.60	1.20
SN75LBC180RSAT	296-19552-1-ND	LP Differential Line Driver/Rcvr. Pairs	16-QFN	2.43	1.94	1.46
SN75LBC180RSAT	296-19552-2-ND	LP Differentail Line Driver/Rcvr. Pairs	16-QFN	339.50/250		
SN75LBC182D	296-11656-5-ND	Differential Bus Transceiver	8-SOIC	2.00	1.60	1.20
SN75LBC184D	296-2364-5-ND	Differential Xcvr. with TVS Protection	8-SOIC	2.70	2.16	1.68
SN75LBC184P	296-6884-5-ND	Differential Xcvr. with TVS Protection	8-Dip	2.70	2.16	1.68
SN75LBC187DBR	296-6885-1-ND	Multichannel EIA-232 Driver/Receiver	28-SSOP	4.50	3.60	2.80
SN75LBC187DBR	296-6885-2-ND	Multichannel EIA-232 Driver/Receiver	28-SSOP	5100.00/2,000		
SN75LBC241DW	296-6886-5-ND	Low Power LinBiCMOS Multiple Drivers and Receivers	28-SOIC	2.70	2.16	1.68
SN75LBC771DW	296-6887-5-ND	GeoPort™ Transceiver	20-SOIC	2.48	1.98	1.54
SN75LBC776DW	296-6890-5-ND	Single-Chip GeoPort™ Transceiver	20-SOIC	4.73	3.78	2.94
SN75LBC777DW	296-6891-5-ND	Single-Chip Geoport/AppleTalk™ Transceiver	20-SOIC	3.60	2.88	2.24
SN75LBC968DL	296-6894-5-ND	9-Channel Bus Transceiver with Active Termination	56-SSOP	15.99	14.40	12.77
SN75LBC978DLR	296-6895-1-ND	9-Channel Differential Transceiver	56-SSOP	23.10	21.56	20.02
SN75LBC978DLR	296-6895-2-ND	9-Channel Differential Transceiver	56-SSOP	19019.00/1,000		
SN75107AD	296-6799-5-ND	Dual Line Receiver	14-SOIC	1.25	1.00	.75
SN75107AN	296-6800-5-ND	Dual Line Receiver	14-Dip	1.25	1.00	.75
SN75107BD	296-6802-5-ND	Dual Line Receiver	14-SOIC	.80	.60	.45
SN75107BDR	296-14946-1-ND	Dual Line Receiver	14-SOIC	.80	.60	.45
SN75107BDR	296-14946-2-ND	Dual Line Receiver	14-SOIC	650.00/2,500		
SN75107BN	296-6803-5-ND	Dual Line Receiver	14-Dip	.80	.60	.45
SN75110AD	296-6804-5-ND	Dual Line Driver	14-SOIC	.80	.60	.45
SN75110ADR	296-14947-1-ND	Dual Line Driver	14-SOIC	.80	.60	.45
SN75110ADR	296-14947-2-ND	Dual Line Driver	14-SOIC	650.00/2,500		
SN75110AN	296-6805-5-ND	Dual Line Driver	14-Dip	.80	.60	.45
SN75112D	296-6806-5-ND	Dual Line Driver	14-SOIC	.99	.83	.66
SN75112DR	296-6806-1-ND	Dual Line Driver	14-SOIC	.99	.83	.66
SN75112DR	296-6806-2-ND	Dual Line Driver	14-SOIC	1072.50/2,500		
SN75112N	296-6807-5-ND	Dual Line Driver	14-Dip	.99	.83	.66
SN75113N	296-6809-5-ND	Dual Differential Line Driver	16-Dip	2.25	1.80	1.40
SN75114N	296-6811-5-ND	Dual Differential Line Driver	16-Dip	2.38	1.90	1.43
SN75115D	296-6812-5-ND	Dual Differential Line Receiver	16-SOIC	2.38	1.90	1.43
SN75115N	296-6813-5-ND	Dual Differential Line Receiver	16-Dip	2.38	1.90	1.43
SN75116N	296-6814-5-ND	Differential Line Transceiver	16-Dip	3.49	2.79	2.17
SN75117P	296-6820-5-ND	Differential Line Transceiver	8-Dip	3.94	3.15	2.45
SN75118N	296-6821-5-ND	Differential Line Transceiver	16-Dip	4.05	3.24	2.52
SN75119P	296-6822-5-ND	Differential Line Transceiver	8-Dip	4.05	3.24	2.52
SN75121N	296-6823-5-ND	Dual Line Driver	16-Dip	2.25	1.80	1.35
SN75123N	296-6825-5-ND	Dual Line Driver	16-Dip	2.25	1.80	1.35
SN75124N	296-6826-5-ND	Triple Line Receiver	16-Dip	2.25	1.80	1.35
SN75138N	296-6828-5-ND	Quad Bus Transceiver	16-Dip	2.00	1.60	1.20
SN75140P	296-12184-5-ND	Dual Line Receiver	8-Dip	1.50	1.20	.90
SN75150D	296-6830-5-ND	Dual Line Driver	8-SOIC	1.20	1.00	.80
SN75150DR	296-14948-1-ND	Dual Line Driver	8-SOIC	1.20	1.00	.80
SN75150DR	296-14948-2-ND	Dual Line Driver	8-SOIC	1300.00/2,500		
SN75150P	296-6831-5-ND	Dual Line Driver	8-Dip	1.20	1.00	.80

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN75154D	296-6832-5-ND	Quad Differential Line Receiver	16-SOIC	1.20	1.00	.80
SN75154N	296-6833-5-ND	Quad Differential Line Receiver	16-Dip	1.20	1.00	.80
SN75155D	296-6835-5-ND	Line Driver and Receiver	8-SOIC	1.20	1.00	.80
SN75155DR	296-14949-1-ND	Line Driver and Receiver	8-SOIC	1.20	1.00	.80
SN75155DR	296-14949-2-ND	Line Driver and Receiver	8-SOIC	1300.00/2,500		
SN75155P	296-6836-5-ND	Line Driver and Receiver	8-Dip	1.20	1.00	.80
SN75157D	296-6837-5-ND	Dual Differential Line Receiver	8-SOIC	1.80	1.44	1.08
SN75157P	296-6838-5-ND	Dual Differential Line Receiver	8-Dip	1.80	1.44	1.08
SN75158D	296-6839-5-ND	Dual Differential Line Driver	8-SOIC	3.15	2.52	1.96
SN75158P	296-6840-5-ND	Dual Differential Line Driver	8-Dip	3.15	2.52	1.96
SN75158PSR	296-6841-1-ND	Dual Differential Line Driver	8-SOP	3.15	2.52	1.96
SN75158PSR	296-6841-2-ND	Dual Differential Line Driver	8-SOP	3570.00/2,000		
SN75159D	296-6842-5-ND	Dual Differential Line Driver	14-SOIC	2.70	2.16	1.68
SN75159N	296-6843-5-ND	Dual Differential Line Driver	14-Dip	2.70	2.16	1.68
SN75160BDW	296-6844-5-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.00	1.60	1.20
SN75160BDWR	296-14950-1-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.00	1.60	1.20
SN75160BDWR	296-14950-2-ND	Octal GP Interface Bus Transceiver	20-SOIC	2080.00/2,000		
SN75160BN	296-6845-5-ND	Octal GP Interface Bus Transceiver	20-Dip	1.32	1.06	.80
SN75161BDW	296-6846-5-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.00	1.60	1.20
SN75161BDWR	296-14951-1-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.00	1.60	1.20
SN75161BDWR	296-14951-2-ND	Octal GP Interface Bus Transceiver	20-SOIC	2080.00/2,000		
SN75161BN	296-6847-5-ND	Octal GP Interface Bus Transceiver	20-Dip	1.40	1.13	.85
SN75162BDW	296-6848-5-ND	Octal GP Interface Bus Transceiver	20-SOIC	4.73	3.78	2.94
SN75172DWR	296-14952-1-ND	Quad Differential Line Driver	20-SOIC	1.83	1.46	1.10
SN75172DWR	296-14952-2-ND	Quad Differential Line Driver	20-SOIC	1898.00/2,000		
SN75172N	296-6850-5-ND	Quad Differential Line Driver	16-Dip	1.83	1.46	1.10
SN751730D	296-6851-5-ND	Triple Line Driver/Receiver	16-SOIC	4.05	3.24	2.52
SN751730N	296-6852-5-ND	Triple Line Driver/Receiver	16-Dip	4.05	3.24	2.52
SN75173D	296-6853-5-ND	Quad Differential Line Receiver	16-SOIC	1.83	1.46	1.10
SN75173DR	296-14953-1-ND	Quad Differential Line Receiver	16-SOIC	1.83	1.46	1.10
SN75173DR	296-14953-2-ND	Quad Differential Line Receiver	16-SOIC	2335.00/2,500		
SN75173N	296-6854-5-ND	Quad Differential Line Receiver	16-Dip	1.83	1.46	1.10
SN75174DWR	296-6855-1-ND	Quad Differential Line Driver	20-SOIC	.96	.80	.64
SN75174DWR	296-6855-2-ND	Quad Differential Line Driver	20-SOIC	848.00/2,000		
SN75174N	296-1735-5-ND	Quad Differential Line Driver	16-Dip	1.16	.97	.77
SN75175D	296-6856-5-ND	Quad Differential Line Receiver	16-SOIC	1.30	1.04	.78
SN75175DR	296-14954-1-ND	Quad Differential Line Receiver	16-SOIC	.88	.66	.50
SN75175DR	296-14954-2-ND	Quad Differential Line Receiver	16-SOIC	715.00/2,500		
SN75175N	296-1736-5-ND	Quad Differential Line Receiver	16-Dip	.88	.66	.50
SN75176AD	296-6857-5-ND	Differential Bus Transceiver	8-SOIC	.53	.40	.30
SN75176ADR	296-14955-1-ND	Differential Bus Transceiver	8-SOIC	.53	.40	.30
SN75176ADR	296-14955-2-ND	Differential Bus Transceiver	8-SOIC	430.00/2,500		
SN75176AP	296-1737-5-ND	Differential Bus Transceiver	8-Dip	.53	.40	.30
SN75176BD	296-1275-5-ND	Differential Bus Transceiver	8-SOIC	.53	.40	.30
SN75176BDR	296-1275-1-ND	Differential Bus Transceiver	8-SOIC	.53	.40	.30
SN75176BDR	296-1275-2-ND	Differential Bus Transceiver	8-SOIC	430.00/2,500		
SN75176BP	296-1739-5-ND	Differential Bus Transceiver	8-Dip	.57	.43	.33
SN75178BP	296-6858-5-ND	Differential Bus Repeaters	8-Dip	2.25	1.80	1.35
SN75179BD	296-6860-5-ND	Differential Driver/Receiver Pair	8-SOIC	.99	.83	.66
SN75179BDR	296-14956-1-ND	Differential Driver/Receiver Pair	8-SOIC	1.29	1.08	.86
SN75179BDR	296-14956-2-ND	Differential Driver/Receiver Pair	8-SOIC	1397.50/2,500		
SN75179BP	296-6861-5-ND	Differential Driver/Receiver Pair	8-Dip	.99	.83	.66
SN75182N	296-6862-5-ND	Dual Differential Line Receiver	14-Dip	1.25	1.00	.75
SN75183N	296-6863-5-ND	Quad Differential Line Driver	14-Dip	2.63	2.11	1.64
SN75189DR	296-14957-1-ND	Quad Line Receiver	14-SOIC	.48	.36	.27
SN75189DR	296-14957-2-ND	Quad Line Receiver	14-SOIC	390.00/2,500		
SN75976A1DGG	296-9925-5-ND	9-Channel RS-485 Diff. Transceiver	56-TSSOP	16.13	15.05	13.98
SN75976A1DL	296-9926-5-ND	9-Channel RS-485 Diff. Transceiver	56-SSOP	16.13	15.05	13.98
SN75976A2DGG	296-2363-5-ND	9-Channel RS-485 Diff. Transceiver	56-TSSOP	22.20	20.72	19.24
SN751177N	296-6816-5-ND	Dual Differential Driver/Receiver	16-Dip	4.84	3.87	3.01
SN751177NSR	296-6817-1-ND	Dual Differential Driver/Receiver	16-SOP	4.39	3.51	2.73
SN751177NSR	296-6817-2-ND	Dual Differential Driver/Receiver	16-SOP	4972.00/2,000		
SN751178N	296-6818-5-ND	Dual Differential Driver/Receiver	16-Dip	4.84	3.87	3.01
SN751178NSR	296-6819-1-ND	Dual Differential Driver/Receiver	16-SOP	4.39	3.51	2.73
SN751178NSR	296-6819-2-ND	Dual Differential Driver/Receiver	16-SOP	4972.00/2,000		
SN7534050NSR	296-22718-1-ND	Dual Diff. Driver/Receiver ***NEW!***	16-SOP	2.13	1.70	1.28
SN7534050NSR	296-22718-2-ND	Dual Diff. Driver/Receiver ***NEW!***	16-SOP	2210.00/2,000		
TL3695DR	296-15009-1-ND	Differential Bus Transceiver	8-SOIC	1.25	1.00	.75
TL3695DR	296-15009-2-ND	Differential Bus Transceiver	8-SOIC	1600.00/2,500		
TL3695P	296-10172-5-ND	Differential Bus Transceiver	8-Dip	1.25	1.00	.75
UA9637ACD	296-11149-5-ND	Dual Differential Line Receiver	8-SOIC	.88	.66	.50
UA9639CP	296-11150-5-ND	Dual Differential Line Receiver	8-Dip	.90	.75	.60

RS-232

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
GD65232DWR	296-23223-1-ND	Multiple RS-232 Driver/ Receiver ***NEW!***	20-SOIC	.64	.48	.36
GD65232DWR	296-23223-2-ND	Multiple RS-232 Driver/ Receiver ***NEW!***	20-SOIC	426.00/2,000		
GD75232DBR	296-6947-1-ND	Multiple RS-232 Driver/Receiver	20-SSOP	.60	.45	.34
GD75232DBR	296-6947-2-ND	Multiple RS-232 Driver/Receiver	20-SSOP	400.00/2,000		
GD75232DW	296-6948-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.60	.45	.34
GD75232DWR	296-6948-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.60	.45	.34
GD75232DWR	296-6948-2-ND	Multiple RS-232 Driver/Receiver	20-SOIC	400.00/2,000		
GD75232PWR	296-6950-1-ND	Multiple RS-232 Driver/Receiver	20-TSSOP	.60	.45	.34
GD75232PWR	296-6950-2-ND	Multiple RS-232 Driver/Receiver	20-TSSOP	400.00/2,000		
GD75323DW	296-6951-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.92	.69	.52
LT1030CD	296-9589-5-ND	Quad Low Power Line Driver	14-SOIC	2.00	1.60	1.20
LT1030CN	296-1401-5-ND	Quad Low Power Line Driver	14-Dip	2.00	1.60	1.20
MAX202CDR	296-18480-1-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	.90	.75	.60
MAX202CDR	296-18480-2-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	975.00/2,500		
MAX202CDWR	296-18481-1-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	.90	.75	.60
MAX202CDWR	296-18481-2-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	798.00/2,000		
MAX202CPWR	296-18482-1-ND	5V Dual RS-232 Line Driver/Receiver	16-TSSOP	.90	.75	.60
MAX202CPWR	296-18482-2-ND	5V Dual RS-232 Line Driver/Receiver	16-TSSOP	798.00/2,000		
MAX202IDR	296-18483-1-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	.90	.75	.60
MAX202IDR	296-18483-2-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	975.00/2,500		
MAX202IDWR	296-18484-1-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	.90	.75	.60
MAX202IDWR	296-18484-2-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	798.00/2,000		
MAX202IPWR	296-18485-1-ND	5V Dual RS-232 Line Driver/Receiver	16-TSSOP	.90	.75	.60
MAX202IPWR	296-18485-2-ND	5V Dual RS-232 Line Driver/Receiver	16-TSSOP	798.00/2,000		
MAX207CDBR	296-18486-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1.50	1.20	.90
MAX207CDBR	296-18486-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1560.00/2,000		
MAX207CDWR	296-18487-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1.50	1.20	.90
MAX207CDWR	296-18487-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1560.00/2,000		
MAX207IDBR	296-18488-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1.63	1.30	.98
MAX207IDBR	296-18488-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1690.00/2,000		
MAX207IDWR	296-18489-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1.63	1.30	.98
MAX207IDWR	296-18489-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1690.00/2,000		
MAX208CDBR	296-18490-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1.50	1.20	.90
MAX208CDBR	296-18490-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1560.00/2,000		
MAX208CDWR	296-18491-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1.50	1.20	.90
MAX208CDWR	296-18491-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1560.00/2,000		
MAX208IDBR	296-18492-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1.63	1.30	.98
MAX208IDBR	296-18492-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1690.00/2,000		
MAX208IDWR	296-18493-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1.63	1.30	.98
MAX208IDWR	296-18493-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1690.00/2,000		
MAX211CDBR	296-18494-1-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.50	1.20	.90
MAX211CDBR	296-18494-2-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1560.00/2,000		
MAX211CDWR	296-18495-1-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.50	1.20	.90
MAX211CDWR	296-18495-2-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	780.00/1,000		
MAX211IDBR	296-15170-1-ND	5V Multiple RS-232 Line Driver/ Receiver	28-SSOP	1.63	1.30	.98
MAX211IDBR	296-15170-2-ND	5V Multiple RS-232 Line Driver/ Receiver	28-SSOP	1690.00/2,000		
MAX211IDWR	296-18496-1-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.63	1.30	.98
MAX211IDWR	296-18496-2-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	845.00/1,000		
MAX213CDBR	296-19834-1-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.50	1.20	.90
MAX213CDBR	296-19834-2-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1560.00/2,000		
MAX213CDWR	296-19836-1-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.50	1.20	.90
MAX213CDWR	296-19836-2-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	780.00/1,000		
MAX213IDBR	296-19835-1-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.63	1.30	.98
MAX213IDBR	296-19835-2-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1690.00/2,000		
MAX213IDWR	296-19837-1-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.63	1.30	.98
MAX213IDWR	296-19837-2-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	845.00/1,000		
MAX222CDWR	296-18497-1-ND	5V Dual RS-232 Line Driver/Receiver	18-SOIC	1.75	1.40	1.05
MAX222CDWR	296-18497-2-ND	5V Dual RS-232 Line Driver/Receiver	18-SOIC	1820.00/2,000		
MAX222IDWR	296-17256-1-ND	5V Dual RS-232 Line Driver/Receiver	18-SOIC	1.88	1.50	1.13
MAX222IDWR	296-17256-2-ND	5V Dual RS-232 Line Driver/Receiver	18-SOIC	1950.00/2,000		
MAX232D	296-6936-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	.75	.57	.43
MAX232DR	296-14619-1-ND	Dual RS-232 Driver/Receiver	16-SOIC	.75	.57	.43
MAX232DR	296-14619-2-ND	Dual RS-232 Driver/Receiver	16-SOIC	607.50/2,500		
MAX232DW	296-6937-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	.75	.57	.43
MAX232DWR	296-14620-1-ND	Dual RS-232 Driver/Receiver	16-SOIC	.75	.57	.43
MAX232DWR	296-14620-2-ND	Dual RS-232 Driver/Receiver	16-SOIC	498.00/2,000		
MAX232ID	296-6938-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	.90	.75	.60
MAX232IDW	296-6939-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	.90	.75	.60
MAX232IDWR	296-14621-1-ND	Dual RS-232 Driver/Receiver	16-SOIC	.88	.66	.50
MAX232IDWR	296-14621-2-ND	Dual RS-232 Driver/Receiver	16-SOIC	586.00/2,000		
MAX232IN	296-6940-5-ND	Dual EIA-232 Driver/Receiver	16-Dip	.90	.75	.60
MAX232N	296-1402-5-ND	Dual EIA-232 Driver/Receiver	16-Dip	.88	.66	.50
MAX232NSR	296-15895-1-ND	Dual EIA-232 Driver/Receiver	16-SOP	.90	.75	.60
MAX232NSR	296-15895-2-ND	Dual EIA-232 Driver/Receiver	16-SOP	798.00/2,000		
MAX3221CDBR	296-9593-1-ND	1-Channel, RS-232 Driver/Receiver	16-SSOP	1.38	1.10	.83
MAX3221CDBR	296-9593-2-ND	1-Channel, RS-232 Driver/Receiver	16-SSOP	1430.00/2,000		
MAX3221CPWR	296-9594-1-ND	1-Channel, RS-232 Driver/Receiver	16-TSSOP	1.38	1.10	.83
MAX3221CPWR	296-9594-2-ND	1-Channel, RS-232 Driver/Receiver	16-TSSOP	1430.00/2,000		
MAX3221ECDBR	296-19824-1-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver	16-SSOP	1.38	1.10	.83
MAX3221ECDBR	296-19824-2-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver	16-SSOP	1430.00/2,000		
MAX3221ECPWR	296-19825-1-ND	3V-5.5V , 1-Ch. RS-232 Line Driver/Receiver	16-TSSOP	1.38	1.10	.83
MAX3221ECPWR	296-19825-2-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver	16-TSSOP	1430.00/2,000		
MAX3221EIDBR	296-19826-1-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver	16-SSOP	1.38	1.10	.83
MAX3221EIDBR	296-19826-2-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver	16-SSOP	1430.00/2,000		
MAX3221EIPWR	296-19383-1-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver	16-TSSOP	1.38	1.10	.83
MAX3221EIPWR	296-19383-2-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver	16-TSSOP	1430.00/2,000		

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX3221IDBR	296-9595-1-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver	16-SSOP	1.38	1.10	.83
MAX3221IDBR	296-9595-2-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver	16-SSOP	1430.00/2,000		
MAX3221IPWR	296-9596-1-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver	16-TSSOP	1.38	1.10	.83
MAX3221IPWR	296-9596-2-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver	16-TSSOP	1430.00/2,000		
MAX3221MDBREP	296-22180-1-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver ***NEW!***	16-SSOP	5.11	4.09	3.18
MAX3221MDBREP	296-22180-2-ND	3V-5.5V, 1-Ch. RS-232 Line Driver/Receiver ***NEW!***	16-SSOP	5788.00/2,000		
MAX3222CDBR	296-13082-1-ND	3V-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.00	1.60	1.20
MAX3222CDBR	296-13082-2-ND	3V-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2080.00/2,000		
MAX3222CDWR	296-13083-1-ND	3V-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.00	1.60	1.20
MAX3222CDWR	296-13083-2-ND	3V-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2080.00/2,000		
MAX3222CPWR	296-13084-1-ND	3V-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.00	1.60	1.20
MAX3222CPWR	296-13084-2-ND	3V-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2080.00/2,000		
MAX3222ECDBR	296-19818-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.00	1.60	1.20
MAX3222ECDBR	296-19818-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2080.00/2,000		
MAX3222ECDWR	296-19819-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.00	1.60	1.20
MAX3222ECDWR	296-19819-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2080.00/2,000		
MAX3222ECPWR	296-19820-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.00	1.60	1.20
MAX3222ECPWR	296-19820-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2080.00/2,000		
MAX3222EIDBR	296-19823-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.00	1.60	1.20
MAX3222EIDBR	296-19823-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2080.00/2,000		
MAX3222EIDWR	296-19821-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.00	1.60	1.20
MAX3222EIDWR	296-19821-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2080.00/2,000		
MAX3222EIPWR	296-19822-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.00	1.60	1.20
MAX3222EIPWR	296-19822-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2080.00/2,000		
MAX3222IDBR	296-13085-1-ND	3V-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.00	1.60	1.20
MAX3222IDBR	296-13085-2-ND	3V-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2080.00/2,000		
MAX3222IDWR	296-13086-1-ND	3V-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.00	1.60	1.20
MAX3222IDWR	296-13086-2-ND	3V-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2080.00/2,000		
MAX3222IPWR	296-13087-1-ND	3V-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.00	1.60	1.20
MAX3222IPWR	296-13087-2-ND	3V-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2080.00/2,000		
MAX3223CDBR	296-13088-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1.75	1.40	1.05
MAX3223CDBR	296-13088-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1820.00/2,000		
MAX3223CDWR	296-13445-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1.75	1.40	1.05
MAX3223CDWR	296-13445-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1820.00/2,000		
MAX3223CPWR	296-13089-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1.75	1.40	1.05
MAX3223CPWR	296-13089-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1820.00/2,000		
MAX3223ECDBR	296-19838-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1.75	1.40	1.05
MAX3223ECDBR	296-19838-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1820.00/2,000		
MAX3223ECDWR	296-19839-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1.75	1.40	1.05
MAX3223ECDWR	296-19839-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1820.00/2,000		
MAX3223ECPWR	296-19840-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1.75	1.40	1.05
MAX3223ECPWR	296-19840-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1820.00/2,000		
MAX3223EIDBR	296-19841-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1.75	1.40	1.05
MAX3223EIDBR	296-19841-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1820.00/2,000		
MAX3223EIDWR	296-19842-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1.75	1.40	1.05
MAX3223EIDWR	296-19842-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1820.00/2,000		
MAX3223EIPWR	296-19843-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1.75	1.40	1.05
MAX3223EIPWR	296-19843-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1820.00/2,000		
MAX3223IDBR	296-13090-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1.75	1.40	1.05
MAX3223IDBR	296-13090-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1820.00/2,000		
MAX3223IDWR	296-13091-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1.75	1.40	1.05
MAX3223IDWR	296-13091-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1820.00/2,000		
MAX3223IPWR	296-13092-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1.75	1.40	1.05
MAX3223IPWR	296-13092-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1820.00/2,000		
MAX3223MDBREP	296-22181-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	20-SSOP	5.60	4.48	3.78
MAX3223MDBREP	296-22181-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	20-SSOP	7000.00/2,000		
MAX3227CDBR	296-19848-1-ND	3V-5.5V Single Channel RS-232 Line Driver/Receiver	16-SSOP	1.88	1.50	1.13
MAX3227CDBR	296-19848-2-ND	3V-5.5V Single Channel RS-232 Line Driver/Receiver	16-SSOP	1950.00/2,000		
MAX3227ECDBR	296-19828-1-ND	3V-5.5V Single Channel RS-232 Line Driver/Receiver	16-SSOP	1.88	1.50	1.13
MAX3227ECDBR	296-19828-2-ND	3V-5.5V Single Channel RS-232 Line Driver/Receiver	16-SSOP	1950.00/2,000		
MAX3227EIDBR	296-19829-1-ND	3V-5.5V Single Channel RS-232 Line Driver/Receiver	16-SSOP	2.00	1.60	1.20
MAX3227EIDBR	296-19829-2-ND	3V-5.5V Single Channel RS-232 Line Driver/Receiver	16-SSOP	2080.00/2,000		
MAX3227IDBR	296-19849-1-ND	3V-5.5V Single Channel RS-232 Line Driver/Receiver	16-SSOP	2.00	1.60	1.20
MAX3227IDBR	296-19849-2-ND	3V-5.5V Single Channel RS-232 Line Driver/Receiver	16-SSOP	2080.00/2,000		
MAX3232CD	296-23110-5-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	16-SOIC	1.50	1.20	.90
MAX3232CDBR	296-13093-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1.75	1.40	1.05
MAX3232CDBR	296-13093-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1560.00/2,000		
MAX3232CDR	296-13094-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.50	1.20	.90
MAX3232CDR	296-13094-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1920.00/2,500		
MAX3232CDWR	296-13095-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.50	1.20	.90
MAX3232CDWR	296-13095-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1560.00/2,000		
MAX3232CPWR	296-13096-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1.75	1.40	1.05
MAX3232CPWR	296-13096-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1820.00/2,000		
MAX3232ECDBR	296-19850-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1.50	1.20	.90
MAX3232ECDBR	296-19850-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1560.00/2,000		
MAX3232ECDR	296-19851-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.50	1.20	.90
MAX3232ECDR	296-19851-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1920.00/2,500		
MAX3232ECDWR	296-19852-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.50	1.20	.90
MAX3232ECDWR	296-19852-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1560.00/2,000		
MAX3232ECPWR	296-19263-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1.50	1.20	.90
MAX3232ECPWR	296-19263-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1560.00/2,000		
MAX3232EIDBR	296-19853-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1.50	1.20	.90
MAX3232EIDBR	296-19853-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1560.00/2,000		
MAX3232EIDR	296-19752-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.50	1.20	.90
MAX3232EIDR	296-19752-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1920.00/2,500		
MAX3232EIDWR	296-19854-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.50	1.20	.90
MAX3232EIDWR	296-19854-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1560.00/2,000		
MAX3232EIPWR	296-19436-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1.50	1.20	.90
MAX3232EIPWR	296-19436-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1560.00/2,000		
MAX3232IDBR	296-13097-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1.50	1.20	.90
MAX3232IDBR	296-13097-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1560.00/2,000		
MAX3232IDR	296-13098-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.50	1.20	.90
MAX3232IDR	296-13098-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1920.00/2,500		
MAX3232IDWR	296-13099-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.50	1.20	.90
MAX3232IDWR	296-13099-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1560.00/2,000		
MAX3232IPWR	296-13100-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1.38	1.10	.83
MAX3232IPWR	296-13100-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1430.00/2,000		
MAX3232MDBREP	296-19873-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	5.51	4.41	3.43
MAX3232MDBREP	296-19873-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	6248.00/2,000		
MAX3232MPWREP	296-21391-1-ND	3V-5.5V Multichannel RS-232 LIne Driver/Receiver ***NEW!***	16-TSSOP	5.51	4.41	3.43
MAX3232MPWREP	296-21391-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	16-TSSOP	6248.00/2,000		
MAX3237ECPWR	296-19770-1-ND	3V-5.5V RS-232 Line Driver/Receiver	28-TSSOP	2.08	1.66	1.25

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX3237ECPWR	296-19770-2-ND	3V-5.5V RS-232 Line Driver/Receiver	28-TSSOP	2158.00/2,000		
MAX3237EIDBR	296-19801-1-ND	3V-5.5V RS-232 Line Driver/Receiver	28-SSOP	2.35	1.88	1.41
MAX3237EIDBR	296-19801-2-ND	3V-5.5V RS-232 Line Driver/Receiver	28-SSOP	2444.00/2,000		
MAX3237EIPWR	296-19771-1-ND	3V-5.5V RS-232 Line Driver/Receiver	28-TSSOP	2.35	1.88	1.41
MAX3237EIPWR	296-19771-2-ND	3V-5.5V RS-232 Line Driver/Receiver	28-TSSOP	2444.00/2,000		
MAX3238CDBR	296-9597-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.88	1.50	1.13
MAX3238CDBR	296-9597-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1950.00/2,000		
MAX3238CPWR	296-9598-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1.88	1.50	1.13
MAX3238CPWR	296-9598-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1950.00/2,000		
MAX3238ECDBR	296-19812-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.88	1.50	1.13
MAX3238ECDBR	296-19812-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1950.00/2,000		
MAX3238ECDWR	296-19813-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.88	1.50	1.13
MAX3238ECDWR	296-19813-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	975.00/1,000		
MAX3238ECPWR	296-19814-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1.88	1.50	1.13
MAX3238ECPWR	296-19814-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1950.00/2,000		
MAX3238EIDBR	296-19817-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.88	1.50	1.13
MAX3238EIDBR	296-19817-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1950.00/2,000		
MAX3238EIDWR	296-19815-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.88	1.50	1.13
MAX3238EIDWR	296-19815-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	975.00/1,000		
MAX3238EIPWR	296-19816-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1.88	1.50	1.13
MAX3238EIPWR	296-19816-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1950.00/2,000		
MAX3238IDBR	296-9599-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.88	1.50	1.13
MAX3238IDBR	296-9599-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1950.00/2,000		
MAX3238IDBRQ1	296-15187-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	2.23	1.78	1.34
MAX3238IDBRQ1	296-15187-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	2314.00/2,000		
MAX3238IPWR	296-9600-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1.88	1.50	1.13
MAX3238IPWR	296-9600-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1950.00/2,000		
MAX3238IPWRQ1	296-15189-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	2.23	1.78	1.34
MAX3238IPWRQ1	296-15189-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	2314.00/2,000		
MAX3243CDBR	296-6941-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.39	1.16	.93
MAX3243CDBR	296-6941-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1228.00/2,000		
MAX3243CDWR	296-6942-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.38	1.10	.83
MAX3243CDWR	296-6942-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	715.00/1,000		
MAX3243CPW	296-6943-5-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1.38	1.10	.83
MAX3243CPWR	296-6943-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1.38	1.10	.83
MAX3243CPWR	296-6943-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1430.00/2,000		
MAX3243ECDBR	296-19806-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.38	1.10	.83
MAX3243ECDBR	296-19806-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1430.00/2,000		
MAX3243ECDWR	296-19807-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.38	1.10	.83
MAX3243ECDWR	296-19807-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	715.00/1,000		
MAX3243ECPWR	296-19808-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1.38	1.10	.83
MAX3243ECPWR	296-19808-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1430.00/2,000		
MAX3243EIDBR	296-19811-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.38	1.10	.83
MAX3243EIDBR	296-19811-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1430.00/2,000		
MAX3243EIDWR	296-19809-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.38	1.10	.83
MAX3243EIDWR	296-19809-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	715.00/1,000		
MAX3243EIPWR	296-19810-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1.38	1.10	.83
MAX3243EIPWR	296-19810-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1430.00/2,000		
MAX3243EIRHBR	296-21508-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	32-QFN	1.38	1.10	.83
MAX3243EIRHBR	296-21508-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	32-QFN	2112.00/3,000		
MAX3243IDBR	296-6944-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.38	1.10	.83
MAX3243IDBR	296-6944-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1430.00/2,000		
MAX3243IDWR	296-6945-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.38	1.10	.83
MAX3243IDWR	296-6945-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	715.00/1,000		
MAX3243IPWR	296-6946-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1.38	1.10	.83
MAX3243IPWR	296-6946-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	1430.00/2,000		
MAX3243MDBREP	296-21743-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	5.51	4.41	3.43
MAX3243MDBREP	296-21743-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	6248.00/2,000		
MAX3243MPWREP	296-21231-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	5.51	4.41	3.43
MAX3243MPWREP	296-21231-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	28-TSSOP	6248.00/2,000		
MAX3318CDBR	296-20935-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-SSOP	2.36	1.89	1.47
MAX3318CDBR	296-20935-2-ND	2.5V, 460Kbps, RS-232 Transceiver	20-SSOP	2678.00/2,000		
MAX3318CPWR	296-20936-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-TSSOP	2.36	1.89	1.47
MAX3318CPWR	296-20936-2-ND	2.5V, 460Kbps, RS-232 Transceiver	20-TSSOP	2678.00/2,000		
MAX3318ECDBR	296-19844-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-SSOP	2.36	1.89	1.47
MAX3318ECDBR	296-19844-2-ND	2.5V, 460Kbps, RS-232 Transceiver	20-SSOP	2678.00/2,000		
MAX3318ECPWR	296-19845-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-TSSOP	2.36	1.89	1.47
MAX3318ECPWR	296-19845-2-ND	2.5V, 460Kbps, RS-232 Transceiver	20-TSSOP	2678.00/2,000		
MAX3318EIDBR	296-19846-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-SSOP	2.70	2.16	1.68
MAX3318EIDBR	296-19846-2-ND	2.5V, 460Kbps, RS-232 Transceiver	20-SSOP	3060.00/2,000		
MAX3318EIPWR	296-19847-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-TSSOP	2.70	2.16	1.68
MAX3318EIPWR	296-19847-2-ND	2.5V, 460Kbps, RS-232 Transceiver	20-TSSOP	3060.00/2,000		
MAX3318IDBR	296-20937-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-SSOP	2.70	2.16	1.68
MAX3318IDBR	296-20937-2-ND	2.5V, 460Kbps, RS-232 Transceiver	20-SSOP	3060.00/2,000		
MAX3318IPWR	296-20938-1-ND	2.5V, 460Kbps, RS-232 Transceiver	20-TSSOP	2.70	2.16	1.68
MAX3318IPWR	296-20938-2-ND	2.5V, 460Kbps, RS-232 Transceiver	20-TSSOP	3060.00/2,000		
MAX3386ECDWR	296-19830-1-ND	RS-232 Transceiver	20-SOIC	2.70	2.16	1.68
MAX3386ECDWR	296-19830-2-ND	RS-232 Transceiver	20-SOIC	3060.00/2,000		
MAX3386ECPWR	296-19832-1-ND	RS-232 Transceiver	20-TSSOP	2.70	2.16	1.68
MAX3386ECPWR	296-19832-2-ND	RS-232 Transceiver	20-TSSOP	3060.00/2,000		
MAX3386EIDWR	296-19831-1-ND	RS-232 Transceiver	20-SOIC	2.93	2.34	1.82
MAX3386EIDWR	296-19831-2-ND	RS-232 Transceiver	20-SOIC	3316.00/2,000		
MAX3386EIPWR	296-19833-1-ND	RS-232 Transceiver	20-TSSOP	2.93	2.34	1.82
MAX3386EIPWR	296-19833-2-ND	RS-232 Transceiver	20-TSSOP	3316.00/2,000		
MC1488N	296-1404-5-ND	Quad Line Driver	14-Dip	.42	.34	.25
MC1489AN	296-9602-5-ND	Quad Line Receiver	14-Dip	.42	.34	.25
MC1489N	296-1405-5-ND	Quad Line Receiver	14-Dip	.42	.34	.25
SN65C1154N	296-11855-5-ND	Quad Low Power Driver/Receiver	20-Dip	4.28	3.42	2.66
SN65C3221DBR	296-13116-1-ND	3V-5.5V Single Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	2.97	2.38	1.85
SN65C3221DBR	296-13116-2-ND	3V-5.5V Single Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	1820.00/2,000		
SN65C3221EDBR	296-20991-1-ND	3V-5.5V Single Channel Compatible RS-232 Driver/Receiver	16-SSOP	1.75	1.40	1.05
SN65C3221EDBR	296-20991-2-ND	3V-5.5V Single Channel Compatible RS-232 Driver/Receiver	16-SSOP	1820.00/2,000		
SN65C3221EPWR	296-20992-1-ND	3V-5.5V Single Channel Compatible RS-232 Driver/Receiver	16-TSSOP	1.75	1.40	1.05
SN65C3221EPWR	296-20992-2-ND	3V-5.5V Single Channel Compatible RS-232 Driver/Receiver	16-TSSOP	1820.00/2,000		
SN65C3221IPWRQ1	296-23176-1-ND	3V-5.5V Single Channel Compatible RS-232 Driver/Receiver ***NEW!***	16-TSSOP	3.49	2.79	2.17
SN65C3221IPWRQ1	296-23176-2-ND	3V-5.5V Single Channel Compatible RS-232 Driver/Receiver ***NEW!***	16-TSSOP	3952.00/2,000		
SN65C3221PWR	296-13117-1-ND	3V-5.5V Single Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2.97	2.38	1.85
SN65C3221PWR	296-13117-2-ND	3V-5.5V Single Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	1820.00/2,000		
SN65C3222DBR	296-15371-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	4.05	3.24	2.52
SN65C3222DBR	296-15371-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	2080.00/2,000		
SN65C3222DWR	296-15372-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	4.05	3.24	2.52
SN65C3222DWR	296-15372-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	2080.00/2,000		
SN65C3222EDBR	296-20993-1-ND	3V-5.5V Multichannel Compatible RS-232 Driver/Receiver	20-SSOP	2.00	1.60	1.20
SN65C3222EDBR	296-20993-2-ND	3V-5.5V Multichannel Compatible RS-232 Driver/Receiver	20-SSOP	2080.00/2,000		
SN65C3222EDWR	296-20994-1-ND	3V-5.5V Multichannel Compatible RS-232 Driver/Receiver	20-SOIC	2.00	1.60	1.20
SN65C3222EDWR	296-20994-2-ND	3V-5.5V Multichannel Compatible RS-232 Driver/Receiver	20-SOIC	2080.00/2,000		
SN65C3222EPWR	296-20995-1-ND	3V-5.5V Multichannel Compatible RS-232 Driver/Receiver	20-TSSOP	2.00	1.60	1.20
SN65C3222EPWR	296-20995-2-ND	3V-5.5V Multichannel Compatible RS-232 Driver/Receiver	20-TSSOP	2080.00/2,000		
SN65C3222PWR	296-15373-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	4.05	3.24	2.52
SN65C3222PWR	296-15373-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	2080.00/2,000		
SN65C3223DBR	296-13486-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	3.51	2.81	2.19
SN65C3223DBR	296-13486-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	2080.00/2,000		
SN65C3223DWR	296-13487-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	3.51	2.81	2.19
SN65C3223DWR	296-13487-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	2080.00/2,000		
SN65C3223EDBR	296-20996-1-ND	3V-5.5V Multichannel Compatible RS-232 Driver/Receiver	20-SSOP	2.00	1.60	1.20
SN65C3223EDBR	296-20996-2-ND	3V-5.5V Multichannel Compatible RS-232 Driver/Receiver	20-SSOP	2080.00/2,000		

(Continued)

T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
SN65C3223EDWR	296-20997-1-ND	3V-5.5V Multichannel Compatible RS-232 Driver/Receiver	20-SOIC	2.00	1.60	1.20
SN65C3223EDWR	296-20997-2-ND	3V-5.5V Multichannel Compatible RS-232 Driver/Receiver	20-SOIC	2080.00/2,000		
SN65C3223EPWR	296-20998-1-ND	3V-5.5V Multichannel Compatible RS-232 Driver/Receiver	20-TSSOP	2.00	1.60	1.20
SN65C3223EPWR	296-20998-2-ND	3V-5.5V Multichannel Compatible RS-232 Driver/Receiver	20-TSSOP	2080.00/2,000		
SN65C3223PWR	296-13488-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	3.51	2.81	2.19
SN65C3223PWR	296-13488-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	2080.00/2,000		
SN65C3232DBR	296-15374-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	3.78	3.03	2.36
SN65C3232DBR	296-15374-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	1820.00/2,000		
SN65C3232DR	296-15375-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	3.78	3.03	2.36
SN65C3232DR	296-15375-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	2240.00/2,500		
SN65C3232DWR	296-15376-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	3.78	3.03	2.36
SN65C3232DWR	296-15376-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	1820.00/2,000		
SN65C3232EDBR	296-20999-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	1.75	1.40	1.05
SN65C3232EDBR	296-20999-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	1820.00/2,000		
SN65C3232EDR	296-21000-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	1.75	1.40	1.05
SN65C3232EDR	296-21000-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	2240.00/2,500		
SN65C3232EDWR	296-21001-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	1.75	1.40	1.05
SN65C3232EDWR	296-21001-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	1820.00/2,000		
SN65C3232EPWR	296-21002-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	1.75	1.40	1.05
SN65C3232EPWR	296-21002-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	1820.00/2,000		
SN65C3232PWR	296-15377-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	3.78	3.03	2.36
SN65C3232PWR	296-15377-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	1820.00/2,000		
SN65C3238DBR	296-12733-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	4.05	3.24	2.52
SN65C3238DBR	296-12733-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	2340.00/2,000		
SN65C3238DWR	296-13118-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	4.05	3.24	2.52
SN65C3238DWR	296-13118-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	1170.00/1,000		
SN65C3238EDBR	296-21003-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	2.25	1.80	1.35
SN65C3238EDBR	296-21003-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	2340.00/2,000		
SN65C3238EDWR	296-21004-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	2.25	1.80	1.35
SN65C3238EDWR	296-21004-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	2340.00/2,000		
SN65C3238PWR	296-13119-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4.05	3.24	2.52
SN65C3238PWR	296-13119-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	2340.00/2,000		
SN65C3243DBR	296-13120-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	4.32	3.46	2.69
SN65C3243DBR	296-13120-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	2340.00/2,000		
SN65C3243DWR	296-13121-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	4.32	3.46	2.69
SN65C3243DWR	296-13121-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	1170.00/1,000		
SN65C3243PWR	296-13122-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4.32	3.46	2.69
SN65C3243PWR	296-13122-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	2340.00/2,000		
SN65C23243DGGR	296-13114-1-ND	3V-5.5V, Dual RS-232 Port	48-TSSOP	5.40	4.32	3.36
SN65C23243DGGR	296-13114-2-ND	3V-5.5V, Dual RS-232 Port	48-TSSOP	6120.00/2,000		
SN65C23243DLR	296-13115-1-ND	3V-5.5V, Dual RS-232 Port	48-SSOP	5.40	4.32	3.36
SN65C23243DLR	296-13115-2-ND	3V-5.5V, Dual RS-232 Port	48-SSOP	3060.00/1,000		
SN75C185DW	296-1753-5-ND	Low Power Multiple Driver/Receiver	20-SOIC	1.50	1.20	.90
SN75C185DWR	296-14972-1-ND	Low Power Multiple Driver/Receiver	20-SOIC	1.50	1.20	.90
SN75C185DWR	296-14972-2-ND	Low Power Multiple Driver/Receiver	20-SOIC	1560.00/2,000		
SN75C185N	296-9974-5-ND	Low Power Multiple Driver/Receiver	20-Dip	1.50	1.20	.90
SN75C188D	296-6965-5-ND	Quad Low Power Line Driver	14-SOIC	.57	.43	.33
SN75C188DBR	296-6966-1-ND	Quad Low Power Line Driver	14-SSOP	.68	.51	.39
SN75C188DBR	296-6966-2-ND	Quad Low Power Line Driver	14-SSOP	452.00/2,000		
SN75C188DR	296-14973-1-ND	Quad Low Power Line Driver	14-SOIC	.57	.43	.33
SN75C188DR	296-14973-2-ND	Quad Low Power Line Driver	14-SOIC	465.00/2,500		
SN75C188N	296-1754-5-ND	Quad Low Power Line Driver	14-Dip	.57	.43	.33
SN75C189AD	296-1755-5-ND	Quad Low Power Line Receiver	14-SOIC	.57	.43	.33
SN75C189ADBR	296-6967-1-ND	Quad Low Power Line Receiver	14-SSOP	.68	.51	.39
SN75C189ADBR	296-6967-2-ND	Quad Low Power Line Receiver	14-SSOP	452.00/2,000		
SN75C189ADR	296-14974-1-ND	Quad Low Power Line Receiver	14-SOIC	.68	.51	.39
SN75C189ADR	296-14974-2-ND	Quad Low Power Line Receiver	14-SOIC	552.50/2,500		
SN75C189AN	296-1756-5-ND	Quad Low Power Line Receiver	14-Dip	.57	.43	.33
SN75C189D	296-6968-5-ND	Quad Low Power Line Receiver	14-SOIC	.68	.51	.39
SN75C189DR	296-14975-1-ND	Quad Low Power Line Receiver	14-SOIC	.68	.51	.39
SN75C189DR	296-14975-2-ND	Quad Low Power Line Receiver	14-SOIC	552.50/2,500		
SN75C189N	296-6969-5-ND	Quad Low Power Line Receiver	14-Dip	.68	.51	.39
SN75C198D	296-6970-5-ND	Quad Low Power Line Drivers	14-SOP	2.81	2.25	1.75
SN75C1154DW	296-6958-5-ND	Quad Low Power Driver/Receiver	20-SOIC	1.26	1.05	.84
SN75C1154N	296-6959-5-ND	Quad Low Power Driver/Receiver	20-Dip	1.26	1.05	.84
SN75C1167DBR	296-6960-1-ND	Dual Differential Driver/Receiver	16-SSOP	1.25	1.00	.75
SN75C1167DBR	296-6960-2-ND	Dual Differential Driver/Receiver	16-SSOP	1300.00/2,000		
SN75C1167N	296-6961-5-ND	Dual Differential Driver/Receiver	16-Dip	1.25	1.00	.75
SN75C1167NSR	296-6962-1-ND	Dual Differential Driver/Receiver	16-SOP	1.25	1.00	.75
SN75C1167NSR	296-6962-2-ND	Dual Differential Driver/Receiver	16-SOP	1300.00/2,000		
SN75C1168N	296-6963-5-ND	Dual Differential Driver/Receiver	16-Dip	1.25	1.00	.75
SN75C1168NSR	296-6964-1-ND	Dual Differential Driver/Receiver	16-SOP	1.50	1.20	.90
SN75C1168NSR	296-6964-2-ND	Dual Differential Driver/Receiver	16-SOP	1560.00/2,000		
SN75C1168PWR	296-14971-1-ND	Dual Differential Driver/Receiver	16-TSSOP	1.25	1.00	.75
SN75C1168PWR	296-14971-2-ND	Dual Differential Driver/Receiver	16-TSSOP	1300.00/2,000		
SN75C1406D	296-12934-5-ND	Triple Low Power Driver/Receiver	16-SOIC	1.44	1.20	.96
SN75C1406DW	296-1751-5-ND	Triple Low Power Driver/Receiver	16-SOIC	1.44	1.20	.96
SN75C1406DWR	296-1751-1-ND	Triple Low Power Driver/Receiver	16-SOIC	.96	.80	.64
SN75C1406DWR	296-1751-2-ND	Triple Low Power Driver/Receiver	16-SOIC	848.00/2,000		
SN75C1406N	296-1752-5-ND	Triple Low Power Driver/Receiver	16-Dip	.96	.80	.64
SN75C3221DBR	296-13322-1-ND	3V-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-SSOP	2.43	1.95	1.52
SN75C3221DBR	296-13322-2-ND	3V-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-SSOP	1820.00/2,000		
SN75C3221EDBR	296-21071-1-ND	3V-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-SSOP	1.75	1.40	1.05
SN75C3221EDBR	296-21071-2-ND	3V-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-SSOP	1820.00/2,000		
SN75C3221EPWR	296-21072-1-ND	3V-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-TSSOP	1.75	1.40	1.05
SN75C3221EPWR	296-21072-2-ND	3V-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-TSSOP	1820.00/2,000		
SN75C3221PWR	296-13323-1-ND	3V-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-TSSOP	2.43	1.95	1.52
SN75C3221PWR	296-13323-2-ND	3V-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-TSSOP	1820.00/2,000		
SN75C3222DBR	296-15613-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	3.51	2.81	2.19
SN75C3222DBR	296-15613-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2080.00/2,000		
SN75C3222DWR	296-13040-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	3.51	2.81	2.19
SN75C3222DWR	296-13040-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2080.00/2,000		
SN75C3222EDBR	296-21073-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.00	1.60	1.20
SN75C3222EDBR	296-21073-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2080.00/2,000		
SN75C3222EDWR	296-21074-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.00	1.60	1.20
SN75C3222EDWR	296-21074-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2080.00/2,000		
SN75C3222EPWR	296-21075-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.00	1.60	1.20
SN75C3222EPWR	296-21075-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2080.00/2,000		
SN75C3222PWR	296-14342-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	3.51	2.81	2.19
SN75C3222PWR	296-14342-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2080.00/2,000		
SN75C3223DBR	296-13499-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	2.97	2.38	1.85
SN75C3223DBR	296-13499-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	2080.00/2,000		
SN75C3223DWR	296-13500-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	2.97	2.38	1.85
SN75C3223DWR	296-13500-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	2080.00/2,000		
SN75C3223EDBR	296-21076-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	2.00	1.60	1.20
SN75C3223EDBR	296-21076-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	2080.00/2,000		
SN75C3223EDWR	296-21077-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	2.00	1.60	1.20
SN75C3223EDWR	296-21077-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	2080.00/2,000		
SN75C3223EPWR	296-21078-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	2.00	1.60	1.20
SN75C3223EPWR	296-21078-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	2080.00/2,000		
SN75C3223PWR	296-13501-1-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	2.97	2.38	1.85
SN75C3223PWR	296-13501-2-ND	3V-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	2080.00/2,000		
SN75C3232DBR	296-15614-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	3.49	2.79	2.17
SN75C3232DBR	296-15614-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	1820.00/2,000		
SN75C3232DR	296-15615-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	3.49	2.79	2.17
SN75C3232DR	296-15615-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	2240.00/2,500		
SN75C3232DWR	296-15616-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	3.49	2.79	2.17
SN75C3232DWR	296-15616-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-SOIC	1820.00/2,000		
SN75C3232EDBR	296-21079-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Driver/Receiver	16-SSOP	1.75	1.40	1.05
SN75C3232EDBR	296-21079-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Driver/Receiver	16-SSOP	1820.00/2,000		
SN75C3232EDR	296-21080-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Driver/Receiver	16-SOIC	1.75	1.40	1.05
SN75C3232EDR	296-21080-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Driver/Receiver	16-SOIC	2240.00/2,500		
SN75C3232EDWR	296-21081-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Driver/Receiver	16-SOIC	1.75	1.40	1.05
SN75C3232EDWR	296-21081-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Driver/Receiver	16-SOIC	1820.00/2,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN75C3232EPWR	296-21082-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Driver/Receiver	16-TSSOP	1.75	1.40	1.05
SN75C3232EPWR	296-21082-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Driver/Receiver	16-TSSOP	1820.00/2,000		
SN75C3232PWR	296-15617-1-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	3.49	2.79	2.17
SN75C3232PWR	296-15617-2-ND	3V-5.5V, 2-Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	1820.00/2,000		
SN75C3238DBR	296-12743-1-ND	RS-232 Line Driver/Receiver	28-SSOP	3.51	2.81	2.19
SN75C3238DBR	296-12743-2-ND	RS-232 Line Driver/Receiver	28-SSOP	2340.00/2,000		
SN75C3238DWR	296-13324-1-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	3.51	2.81	2.19
SN75C3238DWR	296-13324-2-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	1170.00/1,000		
SN75C3238EDBR	296-21083-1-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	2.25	1.80	1.35
SN75C3238EDBR	296-21083-2-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	2340.00/2,000		
SN75C3238EDWR	296-21084-1-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	2.25	1.80	1.35
SN75C3238EDWR	296-21084-2-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	1170.00/1,000		
SN75C3238PWR	296-13325-1-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	3.51	2.81	2.19
SN75C3238PWR	296-13325-2-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	2340.00/2,000		
SN75C3243DBR	296-13326-1-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	3.24	2.60	2.02
SN75C3243DBR	296-13326-2-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	2340.00/2,000		
SN75C3243DWR	296-13327-1-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	3.24	2.60	2.02
SN75C3243DWR	296-13327-2-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	1170.00/1,000		
SN75C3243PWR	296-13058-1-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	3.24	2.60	2.02
SN75C3243PWR	296-13058-2-ND	3V-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	2340.00/2,000		
SN75C23243DGGR	296-13320-1-ND	3V-5.5V, Dual RS-232 Port	48-TSSOP	4.28	3.42	2.66
SN75C23243DGGR	296-13320-2-ND	3V-5.5V, Dual RS-232 Port	48-TSSOP	4846.00/2,000		
SN75C23243DLR	296-13321-1-ND	3V-5.5V, Dual RS-232 Port	48-SSOP	4.28	3.42	2.66
SN75C23243DLR	296-13321-2-ND	3V-5.5V, Dual RS-232 Port	48-SSOP	2423.00/1,000		
SN75LP196DBR	296-6974-1-ND	LP Multiple RS-232 Driver/Receiver	20-SSOP	2.48	1.98	1.49
SN75LP196DBR	296-6974-2-ND	LP Multiple RS-232 Driver/Receiver	20-SSOP	2574.00/2,000		
SN75LP196DWR	296-6975-1-ND	LP Multiple RS-232 Driver/Receiver	20-SOIC	2.48	1.98	1.49
SN75LP196DWR	296-6975-2-ND	LP Multiple RS-232 Driver/Receiver	20-SOIC	2574.00/2,000		
SN75LP1185DBR	296-6971-1-ND	LP Multiple RS-232 Driver/Receiver	20-SSOP	2.48	1.98	1.49
SN75LP1185DBR	296-6971-2-ND	LP Multiple RS-232 Driver/Receiver	20-SSOP	2574.00/2,000		
SN75LP1185DW	296-6972-5-ND	LP Multiple RS-232 Driver/Receiver	20-SOIC	2.48	1.98	1.49
SN75LP1185DWR	296-6972-1-ND	LP Multiple RS-232 Driver/Receiver	20-SOIC	2.48	1.98	1.49
SN75LP1185DWR	296-6972-2-ND	LP Multiple RS-232 Driver/Receiver	20-SOIC	2574.00/2,000		
SN75LPE185DBR	296-6976-1-ND	LP Multiple RS-232 Driver/Receiver	24-SSOP	2.36	1.89	1.47
SN75LPE185DBR	296-6976-2-ND	LP Multiple RS-232 Driver/Receiver	24-SSOP	2678.00/2,000		
SN75LPE185DW	296-1759-5-ND	LP Multiple RS-232 Driver/Receiver	24-SOIC	2.36	1.89	1.47
SN75LV4737ADBR	296-6977-1-ND	Multichannel RS-232 Line Driver/Receiver with Enable	28-SSOP	2.85	2.28	1.78
SN75LV4737ADBR	296-6977-2-ND	Multichannel RS-232 Line Driver/Receiver with Enable	28-SSOP	3226.00/2,000		
SN75113NSR	296-13312-1-ND	Dual Differential Line Driver	16-SOP	2.25	1.80	1.40
SN75113NSR	296-13312-2-ND	Dual Differential Line Driver	16-SOP	2550.00/2,000		
SN75116NSR	296-13313-1-ND	Tri-State Differential Line Transceiver	16-SOP	3.49	2.79	2.17
SN75116NSR	296-13313-2-ND	Tri-State Differential Line Transceiver	16-SOP	3952.00/2,000		
SN75121NSR	296-13314-1-ND	High Speed Dual Line Driver	16-SOP	2.25	1.80	1.35
SN75121NSR	296-13314-2-ND	High Speed Dual Line Driver	16-SOP	2340.00/2,000		
SN75154NSR	296-13315-1-ND	Quad Line Receiver	16-SOP	1.20	1.00	.80
SN75154NSR	296-13315-2-ND	Quad Line Receiver	16-SOP	1064.00/2,000		
SN75185DBR	296-18833-1-ND	Multiple RS-232 Driver/Receiver	20-SSOP	.75	.63	.50
SN75185DBR	296-18833-2-ND	Multiple RS-232 Driver/Receiver	20-SSOP	666.00/2,000		
SN75185DW	296-1740-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.75	.63	.50
SN75185DWR	296-1740-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.75	.63	.50
SN75185DWR	296-1740-2-ND	Multiple RS-232 Driver/Receiver	20-SOIC	666.00/2,000		
SN75185N	296-6953-5-ND	Multiple RS-232 Driver/Receiver	20-Dip	.75	.63	.50
SN75186DW	296-6954-5-ND	Quad Driver/Receiver with Loopback	24-SOIC	2.25	1.80	1.40
SN75188D	296-1276-5-ND	Quad Line Driver	14-SOIC	.48	.36	.27
SN75188DR	296-1276-1-ND	Quad Line Driver	14-SOIC	.48	.36	.27
SN75188DR	296-1276-2-ND	Quad Line Driver	14-SOIC	390.00/2,500		
SN75188N	296-1742-5-ND	Quad Line Driver	14-Dip	.48	.36	.27
SN75189AD	296-1277-5-ND	Quad Line Receiver	14-SOIC	.48	.36	.27
SN75189ADR	296-1277-1-ND	Quad Line Receiver	14-SOIC	.48	.36	.27
SN75189ADR	296-1277-2-ND	Quad Line Receiver	14-SOIC	390.00/2,500		
SN75189AN	296-1744-5-ND	Quad Line Receiver	14-Dip	.48	.36	.27
SN75189D	296-1745-5-ND	Quad Line Receiver	14-SOIC	.48	.36	.27
SN75189N	296-6955-5-ND	Quad Line Receiver	14-Dip	.48	.36	.27
SN75196DW	296-6956-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	1.14	.95	.76
SN75196DWR	296-12930-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	1.14	.95	.76
SN75196DWR	296-12930-2-ND	Multiple RS-232 Driver/Receiver	20-SOIC	1010.00/2,000		
SN75196N	296-6957-5-ND	Multiple RS-232 Driver/Receiver	20-Dip	1.14	.95	.76
SN75451BPSR	296-13316-1-ND	Dual Peripheral Driver	8-SOP	.80	.60	.45
SN75451BPSR	296-13316-2-ND	Dual Peripheral Driver	8-SOP	532.00/2,000		
SN75454BPSR	296-13317-1-ND	Dual Peripheral Driver	8-SOP	.80	.60	.45
SN75454BPSR	296-13317-2-ND	Dual Peripheral Driver	8-SOP	532.00/2,000		
SN752232DGGR	296-12331-1-ND	Dual RS-232 Port	48-TSSOP	1.25	1.00	.75
SN752232DGGR	296-12331-2-ND	Dual RS-232 Port	48-TSSOP	1300.00/2,000		
SN752232DLR	296-12332-1-ND	Dual RS-232 Port	48-SSOP	1.25	1.00	.75
SN752232DLR	296-12332-2-ND	Dual RS-232 Port	48-SSOP	650.00/1,000		
TL145406DWR	296-10140-1-ND	Triple RS-232 Driver/Receiver	16-SOIC	1.30	1.04	.78
TL145406DWR	296-10140-2-ND	Triple RS-232 Driver/Receiver	16-SOIC	1352.00/2,000		
TL145406N	296-10141-5-ND	Triple RS-232 Driver/Receiver	16-Dip	1.30	1.04	.78
TRS232ECDR	296-22585-1-ND	Dual RS-232 Driver/Receiver ***NEW!***	16-SOIC	.96	.80	.64
TRS232ECDR	296-22585-2-ND	Dual RS-232 Driver/Receiver ***NEW!***	16-SOIC	1040.00/2,500		
TRS3221ECDBR	296-22586-1-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver ***NEW!***	16-SSOP	1.38	1.10	.83
TRS3221ECDBR	296-22586-2-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver ***NEW!***	16-SSOP	1430.00/2,000		
TRS3221ECPWR	296-22587-1-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver ***NEW!***	16-TSSOP	1.38	1.10	.83
TRS3221ECPWR	296-22587-2-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver ***NEW!***	16-TSSOP	1430.00/2,000		
TRS3221EIDBR	296-22588-1-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver ***NEW!***	16-SSOP	1.38	1.10	.83
TRS3221EIDBR	296-22588-2-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver ***NEW!***	16-SSOP	1430.00/2,000		
TRS3221EIPWR	296-22589-1-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver ***NEW!***	16-TSSOP	1.38	1.10	.83
TRS3221EIPWR	296-22589-2-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver ***NEW!***	16-TSSOP	1430.00/2,000		
TRS3222ECDBR	296-22590-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	20-SSOP	2.00	1.60	1.20
TRS3222ECDBR	296-22590-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	20-SSOP	2080.00/2,000		
TRS3222ECPWR	296-22591-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	20-TSSOP	2.00	1.60	1.20
TRS3222ECPWR	296-22591-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	20-TSSOP	2080.00/2,000		
TRS3222EIDBR	296-22592-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	20-SSOP	2.00	1.60	1.20
TRS3222EIDBR	296-22592-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	20-SSOP	2080.00/2,000		
TRS3222EIPWR	296-22593-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	20-TSSOP	2.00	1.60	1.20
TRS3222EIPWR	296-22593-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	20-TSSOP	2080.00/2,000		
TRS3227ECDBR	296-22594-1-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver ***NEW!***	16-SSOP	1.88	1.50	1.13
TRS3227ECDBR	296-22594-2-ND	3V to 5.5V Single Channel RS-232 Line Driver/Receiver ***NEW!***	16-SSOP	1950.00/2,000		
TRS3232ECDR	296-22595-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	16-SOIC	1.50	1.20	.90
TRS3232ECDR	296-22595-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	16-SOIC	1920.00/2,500		
TRS3232ECPWR	296-22596-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	16-TSSOP	1.50	1.20	.90
TRS3232ECPWR	296-22596-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	16-TSSOP	1560.00/2,000		
TRS3232EIDR	296-22597-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	16-SOIC	1.50	1.20	.90
TRS3232EIDR	296-22597-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	16-SOIC	1920.00/2,500		
TRS3232EIPWR	296-22598-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	16-TSSOP	1.50	1.20	.90
TRS3232EIPWR	296-22598-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	16-TSSOP	1560.00/2,000		
TRS3237EIDBR	296-22599-1-ND	3V to 5.5V Multichannel RS-232 1Mbit Line Driver/Receiver ***NEW!***	28-SSOP	2.35	1.88	1.41
TRS3237EIDBR	296-22599-2-ND	3V to 5.5V Multichannel RS-232 1Mbit Line Driver/Receiver ***NEW!***	28-SSOP	2444.00/2,000		
TRS3238ECDBR	296-22600-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-SSOP	1.88	1.50	1.13
TRS3238ECDBR	296-22600-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-SSOP	1950.00/2,000		
TRS3238ECPWR	296-22601-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-TSSOP	1.88	1.50	1.13
TRS3238ECPWR	296-22601-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-TSSOP	1950.00/2,000		
TRS3238EIDBR	296-22602-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-SSOP	1.88	1.50	1.13
TRS3238EIDBR	296-22602-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-SSOP	1950.00/2,000		
TRS3238EIPWR	296-22603-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-TSSOP	1.88	1.50	1.13
TRS3238EIPWR	296-22603-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-TSSOP	1950.00/2,000		
TRS3243ECDBR	296-22604-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-SSOP	1.38	1.10	.83
TRS3243ECDBR	296-22604-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-SSOP	1430.00/2,000		
TRS3243ECPWR	296-22605-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-TSSOP	1.38	1.10	.83
TRS3243ECPWR	296-22605-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-TSSOP	1430.00/2,000		
TRS3243ECRHBR	296-21905-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	32-QFN	1.38	1.10	.83
TRS3243ECRHBR	296-21905-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver	32-QFN	2112.00/3,000		
TRS3243EIDBR	296-22606-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-SSOP	1.38	1.10	.83
TRS3243EIDBR	296-22606-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-SSOP	1430.00/2,000		
TRS3243EIPWR	296-22607-1-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-TSSOP	1.38	1.10	.83
TRS3243EIPWR	296-22607-2-ND	3V to 5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	28-TSSOP	1430.00/2,000		
TRS3318ECPWR	296-21906-1-ND	2.5V, 460kbps RS-232 Transceiver	20-TSSOP	2.36	1.89	1.47
TRS3318ECPWR	296-21906-2-ND	2.5V, 460kbps RS-232 Transceiver	20-TSSOP	2678.00/2,000		
TRS3386ECPWR	296-22608-1-ND	RS-232 Transceiver with Split Supply Pin ***NEW!***	20-TSSOP	2.70	2.16	1.68
TRS3386ECPWR	296-22608-2-ND	RS-232 Transceiver with Split Supply Pin ***NEW!***	20-TSSOP	3060.00/2,000		
UA9636ACD	296-11147-5-ND	Dual Line Driver with Adj. Slew Rate	8-SOIC	.80	.60	.45
UA9636ACDR	296-15055-1-ND	Dual Line Driver with Adj. Slew Rate	8-SOIC	.80	.60	.45
UA9636ACDR	296-15055-2-ND	Dual Line Driver with Adj. Slew Rate	8-SOIC	650.00/2,500		
UA9636ACP	296-11148-5-ND	Dual Line Driver with Adj. Slew Rate	8-Dip	.80	.60	.45
UA9637ACDR	296-15056-1-ND	Dual Differential Line Receiver	8-SOIC	.75	.63	.50

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UA9637ACDR	296-15056-2-ND	Dual Differential Line Receiver	8-SOIC	812.50/2,500		
UA9637ACP	296-15057-5-ND	Dual Differential Line Receiver	8-Dip	.75	.63	.50
UA9638CDR	296-15058-1-ND	Dual High Speed Diff. Line Driver	8-SOIC	.60	.45	.34
UA9638CDR	296-15058-2-ND	Dual High Speed Diff. Line Driver	8-SOIC	487.50/2,500		
UA9638CP	296-15059-5-ND	Dual High Speed Diff. Line Driver	8-Dip	.60	.45	.34
UC5170CQ	296-11352-5-ND	Octal Line Driver with Strapped Mode Selection	28-PLCC	5.98	4.79	4.04
UC5180CQ	296-11354-5-ND	Low Speed Async. Octal Line Rcvr.	28-PLCC	5.70	4.56	3.85

SCSI

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN75970B2DGG	296-9921-5-ND	SCSI Differential Converter Control	56-TSSOP	22.35	20.86	19.37
SN75970B2DL	296-9922-5-ND	SCSI Differential Converter Control	56-SSOP	22.35	20.86	19.37
SN75971B2DGG	296-9923-5-ND	SCSI Differential Converter - Data	56-TSSOP	20.40	19.04	17.68
SN75971B2DL	296-9924-5-ND	SCSI Differential Converter - Data	56-SSOP	20.40	19.04	17.68
SN75976A1MDGGREP	296-23022-1-ND	9-Ch. Diff. Transceiver ***NEW!***	56-TSSOP	32.25	30.10	27.95
SN75976A1MDGGREP	296-23022-2-ND	9-Ch. Diff. Transceiver ***NEW!***	56-TSSOP	53106.00/2,000		
SN75976A2DL	296-1278-5-ND	9-Channel Differential Transceiver	56-SSOP	22.20	20.72	19.24
SN75976A2DLR	296-1278-1-ND	9-Channel Differential Transceiver	56-SSOP	22.20	20.72	19.24
SN75976A2DLR	296-1278-2-ND	9-Channel Differential Transceiver	56-SSOP	18278.00/1,000		
UCC5642MWP	296-12333-5-ND	9-Line LVD Only SCSI Terminator with Regulator	36-QSOP	5.56	4.45	3.46

Switches

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX4594DBVR	296-17649-1-ND	5V Analog Switch	SOT-23-5	.78	.65	.52
MAX4594DBVR	296-17649-2-ND	5V Analog Switch	SOT-23-5	1014.00/3,000		
MAX4594DCKR	296-17650-1-ND	5V Analog Switch	SC70-5	.78	.65	.52
MAX4594DCKR	296-17650-2-ND	5V Analog Switch	SC70-5	1014.00/3,000		
MAX4595DBVR	296-17651-1-ND	5V Analog Switch	SOT-23-5	.78	.65	.52
MAX4595DBVR	296-17651-2-ND	5V Analog Switch	SOT-23-5	1014.00/3,000		
MAX4595DCKR	296-17652-1-ND	5V Analog Switch	SC70-5	.78	.65	.52
MAX4595DCKR	296-17652-2-ND	5V Analog Switch	SC70-5	1014.00/3,000		
MAX4596DBVR	296-17653-1-ND	5V Analog Switch	SOT-23-5	.78	.65	.52
MAX4596DBVR	296-17653-2-ND	5V Analog Switch	SOT-23-5	1014.00/3,000		
MAX4596DCKR	296-17654-1-ND	5V Analog Switch	SC70-5	.78	.65	.52
MAX4596DCKR	296-17654-2-ND	5V Analog Switch	SC70-5	1014.00/3,000		
MAX4597DBVR	296-17655-1-ND	5V Analog Switch	SOT-23-5	.78	.65	.52
MAX4597DBVR	296-17655-2-ND	5V Analog Switch	SOT-23-5	1014.00/3,000		
MAX4597DCKR	296-17656-1-ND	5V Analog Switch	SC70-5	.78	.65	.52
MAX4597DCKR	296-17656-2-ND	5V Analog Switch	SC70-5	1014.00/3,000		
TL52055DR	296-18888-1-ND	Wide Bandwidth, 2-In, 1-Out, 3-Circuit Video Switch	16-SOIC	.75	.63	.50
TL52055DR	296-18888-2-ND	Wide Bandwidth, 2-In, 1-Out, 3-Circuit Video Switch	16-SOIC	812.50/2,500		
TL52055PWR	296-18889-1-ND	Wide Bandwidth, 2-In, 1-Out, 3-Circuit Video Switch	16-TSSOP	.75	.63	.50
TL52055PWR	296-18889-2-ND	Wide Bandwidth, 2-In, 1-Out, 3-Circuit Video Switch	16-TSSOP	666.00/2,000		
TMDS141RHAR	296-21873-1-ND	HDMI Hider	40-QFN	3.94	3.15	2.45
TMDS141RHAR	296-21873-2-ND	HDMI Hider	40-QFN	5512.50/2,500		
TMDS250PAGR	296-22581-1-ND	2.5Gbps 2:1 DVI/HDMI Switch ***NEW!***	64-TQFP	3.60	2.88	2.24
TMDS250PAGR	296-22581-2-ND	2.5Gbps 2:1 DVI/HDMI Switch ***NEW!***	64-TQFP	3060.00/1,500		
TMDS251PAGR	296-22051-1-ND	2.5Gbps 2:1 DVI/HDMI Switch ***NEW!***	64-TQFP	3.60	2.88	2.24
TMDS251PAGR	296-22051-2-ND	2.5Gbps 2:1 DVI/HDMI Switch ***NEW!***	64-TQFP	3060.00/1,500		
TMDS341APFCR	296-19741-1-ND	3-to-1 DVI/HDMI Switch	80-TQFP	5.06	4.05	3.15
TMDS341APFCR	296-19741-2-ND	3-to-1 DVI/HDMI Switch	80-TQFP	2869.00/1,000		
TMDS341PFC	296-18264-ND	3-to-1 DVI/HDMI Switch	80-TQFP	5.06	4.05	3.15
TMDS351PAG	296-21970-ND	2.5Gbps, 3-to-1 DVI/HDMI Switch	64-TQFP	4.28	3.42	2.66
TMDS442PNPR	296-21971-1-ND	4-to-2 DVI/HDMI Switch	128-HTQFP	6.40	5.12	4.32
TMDS442PNPR	296-21971-2-ND	4-to-2 DVI/HDMI Switch	128-HTQFP	4000.00/1,000		
TS3A4741DGKR	296-21917-1-ND	0.9-Ohm Low Voltage Single Supply Dual SPST Analog Switch	8-MSOP	.84	.70	.56
TS3A4741DGKR	296-21917-2-ND	0.9-Ohm Low Voltage Single Supply Dual SPST Analog Switch	8-MSOP	910.00/2,500		
TS3A4751PWR	296-20700-1-ND	0.9-Ohm Low Voltage Single Supply Quad SPST Analog Switch	14-TSSOP	1.26	1.05	.84
TS3A4751PWR	296-20700-2-ND	0.9-Ohm Low Voltage Single Supply Quad SPST Analog Switch	14-TSSOP	1010.00/2,000		
TS3A5017DBQR	296-17581-1-ND	14-Ohm Dual SP4T Analog Switch	16-QSOP	.96	.72	.54
TS3A5017DBQR	296-17581-2-ND	14-Ohm Dual SP4T Analog Switch	16-QSOP	780.00/2,500		
TS3A5017DGVR	296-17582-1-ND	14-Ohm Dual SP4T Analog Switch	16-TVSOP	.96	.72	.54
TS3A5017DGVR	296-17582-2-ND	14-Ohm Dual SP4T Analog Switch	16-TVSOP	638.00/2,000		
TS3A5017DR	296-17583-1-ND	14-Ohm Dual SP4T Analog Switch	16-SOIC	.96	.72	.54
TS3A5017DR	296-17583-2-ND	14-Ohm Dual SP4T Analog Switch	16-SOIC	780.00/2,500		
TS3A5017PWR	296-17584-1-ND	14-Ohm Dual SP4T Analog Switch	16-TSSOP	.96	.72	.54
TS3A5017PWR	296-17584-2-ND	14-Ohm Dual SP4T Analog Switch	16-TSSOP	638.00/2,000		
TS3A5017RGYR	296-19898-1-ND	14-Ohm Dual SP4T Analog Switch	16-QFN	.81	.68	.54
TS3A5017RGYR	296-19898-2-ND	14-Ohm Dual SP4T Analog Switch	16-QFN	359.00/1,000		
TS3A5018DBQR	296-17609-1-ND	10-Ohm Quad SPDT Analog Switch	16-QSOP	.96	.72	.54
TS3A5018DBQR	296-17609-2-ND	10-Ohm Quad SPDT Analog Switch	16-QSOP	780.00/2,500		
TS3A5018DGVR	296-17610-1-ND	10-Ohm Quad SPDT Analog Switch	16-TVSOP	.96	.72	.54
TS3A5018DGVR	296-17610-2-ND	10-Ohm Quad SPDT Analog Switch	16-TVSOP	638.00/2,000		
TS3A5018DR	296-17611-1-ND	10-Ohm Quad SPDT Analog Switch	16-SOIC	.96	.72	.54
TS3A5018DR	296-17611-2-ND	10-Ohm Quad SPDT Analog Switch	16-SOIC	780.00/2,500		
TS3A5018PWR	296-17612-1-ND	10-Ohm Quad SPDT Analog Switch	16-TSSOP	.96	.72	.54
TS3A5018PWR	296-17612-2-ND	10-Ohm Quad SPDT Analog Switch	16-TSSOP	638.00/2,000		
TS3A5018RGYR	296-19899-1-ND	10-Ohm Quad SPDT Analog Switch	16-QFN	.81	.68	.54
TS3A5018RGYR	296-19899-2-ND	10-Ohm Quad SPDT Analog Switch	16-QFN	359.00/1,000		
TS3A24157DGSR	296-22856-1-ND	0.65-Ohm Dual SPDT Analog Switch, 2-Ch. 2:1 Mux/Demux ***NEW!***	10-MSOP	1.05	.88	.70
TS3A24157DGSR	296-22856-2-ND	0.65-Ohm Dual SPDT Analog Switch, 2-Ch. 2:1 Mux/Demux ***NEW!***	10-MSOP	1137.50/2,500		
TS3A24157RSER	296-22857-1-ND	0.65-Ohm Dual SPDT Analog Switch, 2-Ch. 2:1 Mux/Demux ***NEW!***	10-QFN	1.05	.88	.70
TS3A24157RSER	296-22857-2-ND	0.65-Ohm Dual SPDT Analog Switch, 2-Ch. 2:1 Mux/Demux ***NEW!***	10-QFN	1365.00/3,000		
TS3A24159DGSR	296-21913-1-ND	0.3-Ohm Dual SPDT Analog Switch	10-MSOP	1.11	.93	.74
TS3A24159DGSR	296-21913-2-ND	0.3-Ohm Dual SPDT Analog Switch	10-MSOP	1202.50/2,500		
TS3A24159DRCR	296-21914-1-ND	0.3-Ohm Dual SPDT Analog Switch	10-SON	1.11	.93	.74
TS3A24159DRCR	296-21914-2-ND	0.3-Ohm Dual SPDT Analog Switch	10-SON	1443.00/3,000		
TS3A24159YZPR	296-22714-1-ND	0.3-Ohm Dual SPDT Analog Switch ***NEW!***	10-WCSP	1.11	.93	.74
TS3A24159YZPR	296-22714-2-ND	0.3-Ohm Dual SPDT Analog Switch ***NEW!***	10-WCSP	1443.00/3,000		
TS3A44159PWR	296-21915-1-ND	0.45-Ohm Quad SPDT Analog Switch	16-TSSOP	.88	.70	.53
TS3A44159PWR	296-21915-2-ND	0.45-Ohm Quad SPDT Analog Switch	16-TSSOP	910.00/2,000		
TS3A44159RGTR	296-21916-1-ND	0.45-Ohm Quad SPDT Analog Switch	16-QFN	.88	.70	.53
TS3A44159RGTR	296-21916-2-ND	0.45-Ohm Quad SPDT Analog Switch	16-QFN	1344.00/3,000		
TS3DS26227YZTR	296-22890-1-ND	High-Bandwidth Dual SPDT Diff. Signal Switch ***NEW!***	12-DSBGA	1.28	1.02	.77
TS3DS26227YZTR	296-22890-2-ND	High-Bandwidth Dual SPDT Diff. Signal Switch ***NEW!***	12-DSBGA	1959.00/3,000		
TS3DV416DGGR	296-21175-1-ND	4-Ch. Diff. 8:16 Mux Switch	48-TSSOP	2.13	1.70	1.28
TS3DV416DGGR	296-21175-2-ND	4-Ch. Diff. 8:16 Mux Switch	48-TSSOP	2210.00/2,000		
TS3DV416DGVR	296-21176-1-ND	4-Ch. Diff. 8:16 Mux Switch	48-TVSOP	2.13	1.70	1.28
TS3DV416DGVR	296-21176-2-ND	4-Ch. Diff. 8:16 Mux Switch	48-TVSOP	2210.00/2,000		
TS3DV520ERHUR	296-22730-1-ND	5-Ch. Diff. 10:20 Mux Switch ***NEW!***	56-TQFN	2.25	1.80	1.40
TS3DV520ERHUR	296-22730-2-ND	5-Ch. Diff. 10:20 Mux Switch ***NEW!***	56-TQFN	2550.00/2,000		
TS3DV520RHUR	296-21177-1-ND	5-Ch. Diff. 10:20 Mux Switch	56-TQFN	2.14	1.71	1.33
TS3DV520RHUR	296-21177-2-ND	5-Ch. Diff. 10:20 Mux Switch	56-TQFN	2422.00/2,000		
TS3L100DBQR	296-17354-1-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-QSOP	1.38	1.11	.83
TS3L100DBQR	296-17354-2-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-QSOP	1770.00/2,500		
TS3L100DGVR	296-19011-1-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-TVSOP	1.38	1.11	.83
TS3L100DGVR	296-19011-2-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-TVSOP	1438.00/2,000		
TS3L100DR	296-19012-1-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-SOIC	1.38	1.11	.83
TS3L100DR	296-19012-2-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-SOIC	1770.00/2,500		
TS3L100PWR	296-19013-1-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-TSSOP	1.38	1.11	.83
TS3L100PWR	296-19013-2-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-TSSOP	1438.00/2,000		
TS3L100RGYR	296-17302-1-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-QFN	1.38	1.11	.83
TS3L100RGYR	296-17302-2-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-QFN	719.00/1,000		
TS3L110DBQR	296-17392-ND	3.3V Quad 2:1 Mux/Demux LAN Switch	16-QSOP	1.88	1.50	1.13
TS3L110DGVR	296-19014-1-ND	Quad SPDT High Bandwidth 10/100 Base-T Lan Switch, Differential 8-Ch. to 4-Ch. Mux/Demux	16-TVSOP	1.88	1.50	1.13
TS3L110DGVR	296-19014-2-ND	Quad SPDT High Bandwidth 10/100 Base-T Lan Switch, Differential 8-Ch. to 4-Ch. Mux/Demux	16-TVSOP	1950.00/2,000		
TS3L110DR	296-17455-1-ND	Quad SPDT High Bandwidth 10/100 Base-T LAN Switch, Differential 8-Channel to 4-Channel Mux/Demux	16-SOIC	1.88	1.50	1.13
TS3L110DR	296-17455-2-ND	Quad SPDT High Bandwidth 10/100 Base-T LAN Switch, Differential 8-Channel to 4-Channel Mux/Demux	16-SOIC	2400.00/2,500		
TS3L110PWR	296-19015-1-ND	Quad SPDT High Bandwidth 10/100 Base-T Lan Switch, Differential 8-Ch. to 4-Ch. Mux/Demux	16-TSSOP	1.88	1.50	1.13
TS3L110PWR	296-19015-2-ND	Quad SPDT High Bandwidth 10/100 Base-T Lan Switch, Differential 8-Ch. to 4-Ch. Mux/Demux	16-TSSOP	1950.00/2,000		
TS3L110RGYR	296-17456-1-ND	Quad SPDT High Bandwidth 10/100 Base-T LAN Switch, Differential 8-Channel to 4-Channel Mux/Demux	16-QFN	1.88	1.50	1.13
TS3L110RGYR	296-17456-2-ND	Quad SPDT High Bandwidth 10/100 Base-T LAN Switch, Differential 8-Channel to 4-Channel Mux/Demux	16-QFN	975.00/1,000		
TS3L301DGGR	296-17533-1-ND	16-Bit to 8-Bit SPDT Mux/Demux LAN Switch	48-TSSOP	3.22	2.58	2.01
TS3L301DGGR	296-17533-2-ND	16-Bit to 8-Bit SPDT Mux/Demux LAN Switch	48-TSSOP	2806.00/2,000		
TS3L301DGVR	296-17534-1-ND	16-Bit to 8-Bit SPDT Mux/Demux LAN Switch	48-TVSOP	3.22	2.58	2.01
TS3L301DGVR	296-17534-2-ND	16-Bit to 8-Bit SPDT Mux/Demux LAN Switch	48-TVSOP	2806.00/2,000		
TS3L500AERHUR	296-22858-1-ND	16-Bit to 8-Bit SPDT Gigabit LAN Switch ***NEW!***	56-TQFN	2.25	1.80	1.35
TS3L500AERHUR	296-22858-2-ND	16-Bit to 8-Bit SPDT Gigabit LAN Switch ***NEW!***	56-TQFN	2340.00/2,000		
TS3L500RHUR	296-21178-1-ND	16-Bit to 8-Bit SPDT Gigabit LAN Switch	56-TQFN	2.25	1.80	1.35
TS3L500RHUR	296-21178-2-ND	16-Bit to 8-Bit SPDT Gigabit LAN Switch	56-TQFN	2340.00/2,000		
TS3USB30RSWR	296-22547-1-ND	High Speed USB 2.0, 1:2 Mux/Demux Switch ***NEW!***	10-QFN	1.25	1.00	.75
TS3USB30RSWR	296-22547-2-ND	High Speed USB 2.0, 1:2 Mux/Demux Switch ***NEW!***	10-QFN	1920.00/3,000		
TS3USB31RSER	296-22548-1-ND	High Speed USB 2.0, 1-Port Switch ***NEW!***	8-QFN	.99	.83	.66
TS3USB31RSER	296-22548-2-ND	High Speed USB 2.0, 1-Port Switch ***NEW!***	8-QFN	1287.00/3,000		
TS3USB221DRCR	296-21360-1-ND	High Speed USB 2.0, 1:2 Mux/Demux Switch	10-SON	1.05	.88	.70
TS3USB221DRCR	296-21360-2-ND	High Speed USB 2.0, 1:2 Mux/Demux Switch	10-SON	932.00/2,000		
TS3USB221RSER	296-21918-1-ND	High Speed USB 2.0, 1:2 Mux/Demux Switch	10-QFN	1.05	.88	.70
TS3USB221RSER	296-21918-2-ND	High Speed USB 2.0, 1:2 Mux/Demux Switch	10-QFN	1365.00/3,000		
TS3V330DBQR	296-19016-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-QSOP	.93	.78	.62
TS3V330DBQR	296-19016-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-QSOP	975.00/2,500		
TS3V330DGVR	296-19017-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-TVSOP	.93	.78	.62
TS3V330DGVR	296-19017-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-TVSOP	798.00/2,000		
TS3V330DR	296-19018-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-SOIC	.93	.78	.62
TS3V330DR	296-19018-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-SOIC	975.00/2,500		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TS3V330PWR	296-18212-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-TSSOP	.93	.78	.62
TS3V330PWR	296-18212-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-TSSOP	798.00/2,000		
TS3V330RGYR	296-17053-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-QFN	.93	.78	.62
TS3V330RGYR	296-17053-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-QFN	412.00/1,000		
TS3V340DBQR	296-17815-1-ND	Quad SPDT High Bandwidth Video Switch	16-QSOP	1.23	1.03	.82
TS3V340DBQR	296-17815-2-ND	Quad SPDT High Bandwidth Video Switch	16-QSOP	1202.50/2,500		
TS3V340DGVR	296-17816-1-ND	Quad SPDT High Bandwidth Video Switch	16-TVSOP	1.23	1.03	.82
TS3V340DGVR	296-17816-2-ND	Quad SPDT High Bandwidth Video Switch	16-TVSOP	984.00/2,000		
TS3V340DR	296-17817-1-ND	Quad SPDT High Bandwidth Video Switch	16-SOIC	1.23	1.03	.82
TS3V340DR	296-17817-2-ND	Quad SPDT High Bandwidth Video Switch	16-SOIC	1202.50/2,500		
TS3V340PWR	296-17818-1-ND	Quad SPDT High Bandwidth Video Switch	16-TSSOP	1.23	1.03	.82
TS3V340PWR	296-17818-2-ND	Quad SPDT High Bandwidth Video Switch	16-TSSOP	984.00/2,000		
TS3V340RGYR	296-18174-1-ND	Quad SPDT High Bandwidth Video Switch	16-QFN	1.35	1.13	.90
TS3V340RGYR	296-18174-2-ND	Quad SPDT High Bandwidth Video Switch	16-QFN	492.00/1,000		
TS5A1066DBVR	296-17585-1-ND	10-Ohm SPST Analog Switch	SOT-23-5	.40	.32	.24
TS5A1066DBVR	296-17585-2-ND	10-Ohm SPST Analog Switch	SOT-23-5	324.00/3,000		
TS5A1066DCKR	296-17586-1-ND	10-Ohm SPST Analog Switch	SC70-5	.40	.32	.24
TS5A1066DCKR	296-17586-2-ND	10-Ohm SPST Analog Switch	SC70-5	324.00/3,000		
TS5A1066YZPR	296-21179-1-ND	10-Ohm SPST Analog Switch	5-DSBGA	.54	.41	.31
TS5A1066YZPR	296-21179-2-ND	10-Ohm SPST Analog Switch	5-DSBGA	528.00/3,000		
TS5A2053DCUR	296-17751-1-ND	Single Channel 10-Ohm SPDT Analog Switch	8-VSSOP	.60	.45	.34
TS5A2053DCUR	296-17751-2-ND	Single Channel 10-Ohm SPDT Analog Switch	8-VSSOP	585.00/3,000		
TS5A2066DCTR	296-21180-1-ND	Dual Channel 10-Ohm SPST Analog Switch	8-SSOP	.60	.45	.34
TS5A2066DCTR	296-21180-2-ND	Dual Channel 10-Ohm SPST Analog Switch	8-SSOP	585.00/3,000		
TS5A2066DCUR	296-17877-1-ND	Dual Channel 10-Ohm SPST Analog Switch	8-VSSOP	.60	.45	.34
TS5A2066DCUR	296-17877-2-ND	Dual Channel 10-Ohm SPST Analog Switch	8-VSSOP	585.00/3,000		
TS5A2066YZPR	296-21181-1-ND	Dual Channel 10-Ohm SPST Analog Switch	8-DSBGA	.72	.54	.41
TS5A2066YZPR	296-21181-2-ND	Dual Channel 10-Ohm SPST Analog Switch	8-DSBGA	702.00/3,000		
TS5A3153DCUR	296-21185-1-ND	1-Ohm SPDT Analog Switch	8-VSSOP	.68	.51	.39
TS5A3153DCUR	296-21185-2-ND	1-Ohm SPDT Analog Switch	8-VSSOP	663.00/3,000		
TS5A3153YZPR	296-21186-1-ND	1-Ohm SPDT Analog Switch	8-DSBGA	.72	.54	.41
TS5A3153YZPR	296-21186-2-ND	1-Ohm SPDT Analog Switch	8-DSBGA	702.00/3,000		
TS5A3154DCUR	296-17878-1-ND	0.9-Ohm SPDT Analog Switch	8-VSSOP	.68	.51	.39
TS5A3154DCUR	296-17878-2-ND	0.9-Ohm SPDT Analog Switch	8-VSSOP	663.00/3,000		
TS5A3154YZPR	296-19900-1-ND	0.9-Ohm SPDT Analog Switch	8-WCSP	1.17	.98	.78
TS5A3154YZPR	296-19900-2-ND	0.9-Ohm SPDT Analog Switch	8-WCSP	702.00/3,000		
TS5A3157DBVR	296-17587-1-ND	10-Ohm SPDT Analog Switch	SOT-23-6	.45	.36	.27
TS5A3157DBVR	296-17587-2-ND	10-Ohm SPDT Analog Switch	SOT-23-6	366.00/3,000		
TS5A3157DCKR	296-17588-1-ND	10-Ohm SPDT Analog Switch	SC70-6	.45	.36	.27
TS5A3157DCKR	296-17588-2-ND	10-Ohm SPDT Analog Switch	SC70-6	366.00/3,000		
TS5A3157YZPR	296-21187-1-ND	10-Ohm SPDT Analog Switch	6-DSBGA	.48	.36	.27
TS5A3157YZPR	296-21187-2-ND	10-Ohm SPDT Analog Switch	6-DSBGA	468.00/3,000		
TS5A3159ADBVR	296-19265-1-ND	1-Ohm SPDT Analog Switch	SOT-23-6	.56	.42	.32
TS5A3159ADBVR	296-19265-2-ND	1-Ohm SPDT Analog Switch	SOT-23-6	546.00/3,000		
TS5A3159ADCKR	296-21188-1-ND	1-Ohm SPDT Analog Switch	SC70-6	.56	.42	.32
TS5A3159ADCKR	296-21188-2-ND	1-Ohm SPDT Analog Switch	SC70-6	546.00/3,000		
TS5A3159AYZPR	296-18671-1-ND	1-Ohm SPDT Analog Switch	6-DSBGA	.75	.63	.50
TS5A3159AYZPR	296-18671-2-ND	1-Ohm SPDT Analog Switch	6-DSBGA	975.00/3,000		
TS5A3159DBVR	296-17319-1-ND	1-Ohm SPDT Analog Switch	SOT-23-6	.56	.42	.32
TS5A3159DBVR	296-17319-2-ND	1-Ohm SPDT Analog Switch	SOT-23-6	546.00/3,000		
TS5A3159DCKR	296-17303-1-ND	1-Ohm SPDT Analog Switch	SC70-6	.56	.42	.32
TS5A3159DCKR	296-17303-2-ND	1-Ohm SPDT Analog Switch	SC70-6	546.00/3,000		
TS5A3159MDBVREP	296-19530-1-ND	1-Ohm SPDT Analog Switch ***NEW!***	SOT-23-6	1.60	1.28	.96
TS5A3159MDBVREP	296-19530-2-ND	1-Ohm SPDT Analog Switch ***NEW!***	SOT-23-6	2457.00/3,000		
TS5A3160DBVR	296-21189-1-ND	1-Ohm SPDT Analog Switch	SOT-23-6	.56	.42	.32
TS5A3160DBVR	296-21189-2-ND	1-Ohm SPDT Analog Switch	SOT-23-6	546.00/3,000		
TS5A3160DCKR	296-21190-1-ND	1-Ohm SPDT Analog Switch	SC70-6	.56	.42	.32
TS5A3160DCKR	296-21190-2-ND	1-Ohm SPDT Analog Switch	SC70-6	546.00/3,000		
TS5A3166DBVR	296-17740-1-ND	0.9-Ohm SPST Analog Switch	SOT-23-5	.48	.36	.27
TS5A3166DBVR	296-17740-2-ND	0.9-Ohm SPST Analog Switch	SOT-23-5	468.00/3,000		
TS5A3166DCKR	296-17741-1-ND	0.9-Ohm SPST Analog Switch	SC70-5	.48	.36	.27
TS5A3166DCKR	296-17741-2-ND	0.9-Ohm SPST Analog Switch	SC70-5	468.00/3,000		
TS5A3166YZPR	296-21191-1-ND	0.9-Ohm SPST Analog Switch	5-DSBGA	.56	.42	.32
TS5A3166YZPR	296-21191-2-ND	0.9-Ohm SPST Analog Switch	5-DSBGA	546.00/3,000		
TS5A3167DBVR	296-17752-1-ND	0.9-Ohm SPST Analog Switch	SOT-23-5	.48	.36	.27
TS5A3167DBVR	296-17752-2-ND	0.9-Ohm SPST Analog Switch	SOT-23-5	468.00/3,000		
TS5A3167DCKR	296-17753-1-ND	0.9-Ohm SPST Analog Switch	SC70-5	.48	.36	.27
TS5A3167DCKR	296-17753-2-ND	0.9-Ohm SPST Analog Switch	SC70-5	468.00/3,000		
TS5A3167YZPR	296-21192-1-ND	0.9-Ohm SPST Analog Switch	5-DSBGA	.56	.42	.32
TS5A3167YZPR	296-21192-2-ND	0.9-Ohm SPST Analog Switch	5-DSBGA	546.00/3,000		
TS5A3357DCUR	296-17404-1-ND	Single 5-Ohm SP3T Analog Switch	8-VSSOP	.81	.68	.54
TS5A3357DCUR	296-17404-2-ND	Single 5-Ohm SP3T Analog Switch	8-VSSOP	1053.00/3,000		
TS5A3359DCUR	296-21193-1-ND	1-Ohm SP3T Analog Switch	8-VSSOP	.87	.73	.58
TS5A3359DCUR	296-21193-2-ND	1-Ohm SP3T Analog Switch	8-VSSOP	1131.00/3,000		
TS5A3359YZPR	296-23179-1-ND	1-Ohm SP3T Analog Switch ***NEW!***	8-WCSP	.96	.80	.64
TS5A3359YZPR	296-23179-2-ND	1-Ohm SP3T Analog Switch ***NEW!***	8-WCSP	1248.00/3,000		
TS5A4594DBVR	296-17705-1-ND	5V Analog Switch	SOT-23-5	.45	.36	.27
TS5A4594DBVR	296-17705-2-ND	5V Analog Switch	SOT-23-5	366.00/3,000		
TS5A4594DCKR	296-17706-1-ND	5V Analog Switch	SC70-5	.45	.36	.27
TS5A4594DCKR	296-17706-2-ND	5V Analog Switch	SC70-5	366.00/3,000		
TS5A4595DBVR	296-17707-1-ND	5V Analog Switch	SOT-23-5	.45	.36	.27
TS5A4595DBVR	296-17707-2-ND	5V Analog Switch	SOT-23-5	366.00/3,000		
TS5A4595DCKR	296-17708-1-ND	5V Analog Switch	SC70-5	.45	.36	.27
TS5A4595DCKR	296-17708-2-ND	5V Analog Switch	SC70-5	366.00/3,000		
TS5A4596DBVR	296-17709-1-ND	5V Analog Switch	SOT-23-5	.45	.36	.27
TS5A4596DBVR	296-17709-2-ND	5V Analog Switch	SOT-23-5	366.00/3,000		
TS5A4596DCKR	296-17710-1-ND	5V Analog Switch	SC70-5	.45	.36	.27
TS5A4596DCKR	296-17710-2-ND	5V Analog Switch	SC70-5	366.00/3,000		
TS5A4597DBVR	296-17711-1-ND	5V Analog Switch	SOT-23-5	.45	.36	.27
TS5A4597DBVR	296-17711-2-ND	5V Analog Switch	SOT-23-5	366.00/3,000		
TS5A4597DCKR	296-17712-1-ND	5V Analog Switch	SC70-5	.45	.36	.27
TS5A4597DCKR	296-17712-2-ND	5V Analog Switch	SC70-5	366.00/3,000		
TS5A4624DCKR	296-19804-1-ND	1-Ohm SPDT Analog Switch	SC70-6	.52	.39	.30
TS5A4624DCKR	296-19804-2-ND	1-Ohm SPDT Analog Switch	SC70-6	507.00/3,000		
TS5A6542YZPR	296-21920-1-ND	0.75-Ohm SPDT Analog Switch	8-WCSP	1.05	.88	.70
TS5A6542YZPR	296-21920-2-ND	0.75-Ohm SPDT Analog Switch	8-WCSP	1365.00/3,000		
TS5A9411DCKR	296-22731-1-ND	10-Ohm SPST Analog Switch 5V/3V Single-Ch. Mux/Demux ***NEW!***	SC70-6	.45	.36	.27
TS5A9411DCKR	296-22731-2-ND	10-Ohm SPST Analog Switch 5V/3V Single-Ch. Mux/Demux ***NEW!***	SC70-6	366.00/3,000		
TS5A23157DGSR	296-17076-1-ND	Dual 10-Ohm SPDT Analog Switch	10-MSOP	1.40	1.05	.79
TS5A23157DGSR	296-17076-2-ND	Dual 10-Ohm SPDT Analog Switch	10-MSOP	747.50/2,500		
TS5A23157RSER	296-21919-1-ND	Dual 10-Ohm SPDT Analog Switch	10-QFN	.75	.63	.50
TS5A23157RSER	296-21919-2-ND	Dual 10-Ohm SPDT Analog Switch	10-QFN	975.00/3,000		
TS5A23159DGSR	296-18598-1-ND	1-Ohm Dual SPDT Analog Switch	10-MSOP	1.05	.88	.70
TS5A23159DGSR	296-18598-2-ND	1-Ohm Dual SPDT Analog Switch	10-MSOP	877.50/2,500		
TS5A23159DGST	296-23304-1-ND	1-Ohm Dual SPDT Analog Switch ***NEW!***	10-MSOP	1.26	1.05	.84
TS5A23159DGST	296-23304-2-ND	1-Ohm Dual SPDT Analog Switch ***NEW!***	10-MSOP	157.50/250		
TS5A23159RSER	296-20669-1-ND	1-Ohm Dual SPDT Analog Switch	10-QFN	1.05	.88	.70
TS5A23159RSER	296-20669-2-ND	1-Ohm Dual SPDT Analog Switch	10-QFN	1092.00/3,000		
TS5A23160DGSR	296-18039-1-ND	Analog Switch	10-VSSOP	1.05	.88	.70
TS5A23160DGSR	296-18039-2-ND	Analog Switch	10-VSSOP	877.50/2,500		
TS5A23166DCUR	296-17906-1-ND	0.9-Ohm Dual SPST Analog Switch	8-VSSOP	1.05	.88	.70
TS5A23166DCUR	296-17906-2-ND	0.9-Ohm Dual SPST Analog Switch	8-VSSOP	936.00/3,000		
TS5A23166YZPR	296-21182-1-ND	0.9-Ohm Dual SPST Analog Switch	8-DSBGA	.75	.63	.50
TS5A23166YZPR	296-21182-2-ND	0.9-Ohm Dual SPST Analog Switch	8-DSBGA	975.00/3,000		
TS5A23166YZTR	296-21183-1-ND	0.9-Ohm Dual SPST Analog Switch	8-DSBGA	1.08	.90	.72
TS5A23166YZTR	296-21183-2-ND	0.9-Ohm Dual SPST Analog Switch	8-DSBGA	1404.00/3,000		
TS5A23167DCUR	296-17985-1-ND	0.9-Ohm Dual SPST Analog Switch	8-VSSOP	1.05	.88	.70
TS5A23167DCUR	296-17985-2-ND	0.9-Ohm Dual SPST Analog Switch	8-VSSOP	936.00/3,000		
TS5A23167YZPR	296-21184-1-ND	0.9-Ohm Dual SPST Analog Switch	8-DSBGA	.75	.63	.50
TS5A23167YZPR	296-21184-2-ND	0.9-Ohm Dual SPST Analog Switch	8-DSBGA	975.00/3,000		
TS5A26542YZTR	296-21567-1-ND	Dual SPDT Analog Switch	12-DSBGA	1.20	1.00	.80
TS5A26542YZTR	296-21567-2-ND	Dual SPDT Analog Switch	12-DSBGA	1560.00/3,000		
TS5A63157DBVR	296-21194-1-ND	12-Ohm SPDT Analog Switch	SOT-23-6	.55	.44	.33
TS5A63157DBVR	296-21194-2-ND	12-Ohm SPDT Analog Switch	SOT-23-6	447.00/3,000		
TS5A63157DCKR	296-21195-1-ND	12-Ohm SPDT Analog Switch	SC70-6	.55	.44	.33
TS5A63157DCKR	296-21195-2-ND	12-Ohm SPDT Analog Switch	SC70-6	447.00/3,000		
TS5A623157DGSR	296-22859-1-ND	0.65-Ohm Dual SPDT Analog Switch, 2-Ch. 2:1 Mux/Demux ***NEW!***	10-MSOP	.75	.63	.50
TS5A623157DGSR	296-22859-2-ND	0.65-Ohm Dual SPDT Analog Switch, 2-Ch. 2:1 Mux/Demux ***NEW!***	10-MSOP	812.50/2,500		
TS5L100DBQR	296-17040-1-ND	Quad SPDT Wide Bandwidth LAN Switch	16-QSOP	1.38	1.11	.83
TS5L100DBQR	296-17040-2-ND	Quad SPDT Wide Bandwidth LAN Switch	16-QSOP	1770.00/2,500		
TS5L100DR	296-19019-1-ND	Quad SPDT Wide Bandwidth LAN Switch	16-SOIC	1.38	1.11	.83
TS5L100DR	296-19019-2-ND	Quad SPDT Wide Bandwidth LAN Switch	16-SOIC	1770.00/2,500		
TS5L100PWR	296-17041-1-ND	Quad SPDT Wide Bandwidth LAN Switch	20-TSSOP	1.38	1.11	.83
TS5L100PWR	296-17041-2-ND	Quad SPDT Wide Bandwidth LAN Switch	20-TSSOP	1438.00/2,000		
TS5L100RGYR	296-17042-1-ND	Quad SPDT Wide Bandwidth LAN Switch	16-QFN	1.38	1.11	.83
TS5L100RGYR	296-17042-2-ND	Quad SPDT Wide Bandwidth LAN Switch	16-QFN	1222.00/1,000		
TS5N214DBQR	296-23305-1-ND	2-Bit, 1-of-4 FET Mux/Demux ***NEW!***	16-QSOP	2.13	1.70	1.28
TS5N214DBQR	296-23305-2-ND	2-Bit, 1-of-4 FET Mux/Demux ***NEW!***	16-QSOP	2720.00/2,500		
TS5V330DBQR	296-17089-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-QSOP	.93	.78	.62
TS5V330DBQR	296-17089-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-QSOP	1007.50/2,500		
TS5V330DR	296-19020-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-SOIC	.93	.78	.62
TS5V330DR	296-19020-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-SOIC	1007.50/2,500		
TS5V330PWR	296-17043-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-TSSOP	.93	.78	.62
TS5V330PWR	296-17043-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-TSSOP	824.00/2,000		
TS5V330RGYR	296-17090-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-QFN	.93	.78	.62
TS5V330RGYR	296-17090-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-QFN	412.00/1,000		
TS12A4514DR	296-21907-1-ND	Low Volt., Low On State Resistance SPST CMOS Analog Switch	8-SOIC	.88	.66	.50
TS12A4514DR	296-21907-2-ND	Low Volt., Low On State Resistance SPST CMOS Analog Switch	8-SOIC	715.00/2,500		
TS12A4514P	296-21908-5-ND	Low Volt., Low On State Resistance SPST CMOS Analog Switch	8-Dip	.88	.66	.50
TS12A4515DR	296-21909-1-ND	Low Volt., Low On State Resistance SPST CMOS Analog Switch	8-SOIC	.88	.66	.50
TS12A4515DR	296-21909-2-ND	Low Volt., Low On State Resistance SPST CMOS Analog Switch	8-SOIC	715.00/2,500		
TS12A4515P	296-21910-5-ND	Low Volt., Low On State Resistance SPST CMOS Analog Switch	8-Dip	.88	.66	.50
TS12A4516DR	296-21911-1-ND	Dual Low On State Resistance SPST CMOS Analog Switch	8-SOIC	.96	.72	.54
TS12A4516DR	296-21911-2-ND	Dual Low On State Resistance SPST CMOS Analog Switch	8-SOIC	780.00/2,500		

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TS12A4517DR	296-21912-1-ND	Dual Low On State Resistance SPST CMOS Analog Switch	8-SOIC	.96	.72	.54
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CD4001BM	296-3500-5-ND	CMOS Quad 2-Input NOR Gate	14-SOIC	.50	.40	.30
CD4001BNSR	296-12627-1-ND	CMOS Quad 2-Input NOR Gate	14-SOP	.50	.40	.30
CD4001BNSR	296-12627-2-ND	CMOS Quad 2-Input NOR Gate	14-SOP	280.00/2,000		
CD4001BPWR	296-14076-1-ND	CMOS Quad 2-Input NOR Gate	14-TSSOP	.45	.36	.27
CD4001BPWR	296-14076-2-ND	CMOS Quad 2-Input NOR Gate	14-TSSOP	250.00/2,000		
CD4001UBE	296-14077-5-ND	CMOS Quad 2-Input NOR Gate	14-Dip	.50	.40	.30
CD4002BE	296-2029-5-ND	Dual 4-Input NOR Gate	14-Dip	.50	.40	.30
CD4002BNSR	296-14078-1-ND	Dual 4-Input NOR Gate	14-SOP	.50	.40	.30
CD4002BNSR	296-14078-2-ND	Dual 4-Input NOR Gate	14-SOP	280.00/2,000		
CD4002BPWR	296-14239-1-ND	Dual 4-Input NOR Gate	14-TSSOP	.50	.40	.30
CD4002BPWR	296-14239-2-ND	Dual 4-Input NOR Gate	14-TSSOP	280.00/2,000		
CD4007UBE	296-3501-5-ND	Dual Complementary Pair Plus Inverter	14-Dip	.50	.40	.30
CD4007UBM	296-3502-5-ND	Dual Complementary Pair Plus Inverter	14-SOIC	.50	.40	.30
CD4009UBE	296-2030-5-ND	Hex Inverter Buffer	16-Dip	.50	.40	.30
CD4009UBPWR	296-14240-1-ND	CMOS Hex Buffer/Converter	16-TSSOP	.50	.40	.30
CD4009UBPWR	296-14240-2-ND	CMOS Hex Buffer/Converter	16-TSSOP	280.00/2,000		
CD4010BE	296-2160-5-ND	Hex Buffer/Converter	16-Dip	.48	.36	.27
CD4010BPWR	296-14084-1-ND	Hex Buffer/Converter	16-TSSOP	.50	.40	.30
CD4010BPWR	296-14084-2-ND	Hex Buffer/Converter	16-TSSOP	280.00/2,000		
CD4011BE	296-2031-5-ND	Quad 2-Input NAND Gate	14-Dip	.45	.36	.27
CD4011BM	296-3507-5-ND	Quad 2-Input NAND Gate	14-SOIC	.50	.40	.30
CD4011BM96	296-14474-1-ND	Quad 2-Input CMOS NAND Gate	14-SOIC	.45	.36	.27
CD4011BM96	296-14474-2-ND	Quad 2-Input CMOS NAND Gate	14-SOIC	300.00/2,500		
CD4011BNSR	296-14085-1-ND	Quad 2-Input NAND Gate	14-SOP	.50	.40	.30
CD4011BNSR	296-14085-2-ND	Quad 2-Input NAND Gate	14-SOP	280.00/2,000		
CD4011BPWR	296-12759-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.50	.40	.30
CD4011BPWR	296-12759-2-ND	Quad 2-Input NAND Gate	14-TSSOP	280.00/2,000		
CD4011UBE	296-14086-5-ND	Quad 2-Input NAND Gate	14-Dip	.50	.40	.30
CD4011UBM	296-14245-5-ND	Quad 2-Input NAND Gate	14-SOIC	.50	.40	.30
CD4012BE	296-2032-5-ND	Dual 4-Input NAND Gate	14-Dip	.50	.40	.30
CD4012BM96	296-14246-1-ND	Dual 4-Input NAND Gate	14-SOIC	.50	.40	.30
CD4012BM96	296-14246-2-ND	Dual 4-Input NAND Gate	14-SOIC	337.50/2,500		
CD4012BNSR	296-14087-1-ND	Dual 4-Input NAND Gate	14-SOP	.50	.40	.30
CD4012BNSR	296-14087-2-ND	Dual 4-Input NAND Gate	14-SOP	280.00/2,000		
CD4013BE	296-2033-5-ND	Dual CMOS D-Type Flip-Flop	14-Dip	.45	.36	.27
CD4013BM	296-12972-5-ND	Dual CMOS D-Type Flip-Flop	14-SOIC	.50	.40	.30
CD4013BNSR	296-14088-1-ND	Dual CMOS D-Type Flip-Flop	14-SOP	.50	.40	.30
CD4013BNSR	296-14088-2-ND	Dual CMOS D-Type Flip-Flop	14-SOP	280.00/2,000		
CD4013BPWR	296-14089-1-ND	Dual CMOS D-Type Flip-Flop	14-TSSOP	.45	.36	.27
CD4013BPWR	296-14089-2-ND	Dual CMOS D-Type Flip-Flop	14-TSSOP	250.00/2,000		
CD4014BE	296-2034-5-ND	8-Stage Static Shift Register	16-Dip	.48	.37	.28
CD4014BPWR	296-14248-1-ND	8-Stage Static Shift Register	16-TSSOP	.48	.36	.27
CD4014BPWR	296-14248-2-ND	8-Stage Static Shift Register	16-TSSOP	320.00/2,000		
CD4015BE	296-2035-5-ND	Dual 4-Stage Static Shift Register	16-Dip	.60	.45	.34
CD4015BM	296-23201-5-ND	CMOS Dual 4-Stage Static Shift Register ***NEW!***	16-SOIC	.60	.45	.34
CD4015BPWR	296-14090-1-ND	Dual 4-Stage Static Shift Register	16-TSSOP	.60	.45	.34
CD4015BPWR	296-14090-2-ND	Dual 4-Stage Static Shift Register	16-TSSOP	250.00/2,000		
CD4016BE	296-2036-5-ND	Quad Bilateral Switch	14-Dip	.45	.36	.27
CD4016BM	296-14250-5-ND	Quad Bilateral Switch	14-SOIC	.55	.44	.33
CD4016BNSR	296-14092-1-ND	Quad Bilateral Switch	16-SOP	.55	.44	.33
CD4016BNSR	296-14092-2-ND	Quad Bilateral Switch	16-SOP	308.00/2,000		
CD4017BE	296-2037-5-ND	10 Decade Counter/Divider	16-Dip	.48	.36	.27
CD4017BNSR	296-14094-1-ND	10 Decade Counter/Divider	16-SOP	.50	.40	.30
CD4017BNSR	296-14094-2-ND	10 Decade Counter/Divider	16-SOP	308.00/2,000		
CD4017BPWR	296-14252-1-ND	10 Decade Counter/Divider	16-TSSOP	.50	.40	.30
CD4017BPWR	296-14252-2-ND	10 Decade Counter/Divider	16-TSSOP	308.00/2,000		
CD4018BE	296-14236-ND	CMOS Presettable Divide-by-N Counter	16-Dip	.56	.42	.32
CD4018BNSR	296-14095-1-ND	CMOS Presettable Divide-by-N Counter	16-SOP	.48	.36	.27
CD4018BNSR	296-14095-2-ND	CMOS Presettable Divide-by-N Counter	16-SOP	320.00/2,000		
CD4019BE	296-2038-5-ND	Quad AND/OR Select Gate	16-Dip	.60	.45	.34
CD4020BE	296-2039-5-ND	14-Bit Ripple-Carry Binary Counter/Divider	16-Dip	.58	.47	.35
CD4020BNSR	296-14097-1-ND	14-Bit Ripple-Carry Binary Counter/Divider	16-SOP	.48	.36	.27
CD4020BNSR	296-14097-2-ND	14-Bit Ripple-Carry Binary Counter/Divider	16-SOP	320.00/2,000		
CD4021BE	296-2040-5-ND	8-Stage Static Shift Register	16-Dip	.48	.36	.27
CD4021BM	296-14255-5-ND	8-Stage Static Shift Register	16-SOIC	.48	.36	.27
CD4021BPWR	296-14256-1-ND	8-Stage Static Shift Register	16-TSSOP	.48	.36	.27
CD4021BPWR	296-14256-2-ND	8-Stage Static Shift Register	16-TSSOP	320.00/2,000		
CD4022BE	296-2161-5-ND	Octal Counter/Divider	16-Dip	.56	.42	.32
CD4022BNSR	296-14098-1-ND	Octal Counter/Divider	16-SOP	.45	.36	.27
CD4022BNSR	296-14098-2-ND	Octal Counter/Divider	16-SOP	346.00/2,000		
CD4022BPWR	296-14257-1-ND	Octal Counter/Divider	16-TSSOP	.45	.36	.27
CD4022BPWR	296-14257-2-ND	Octal Counter/Divider	16-TSSOP	346.00/2,000		
CD4023BE	296-2041-5-ND	Triple 3-Input NAND Gate	14-Dip	.47	.38	.29
CD4023BNSR	296-14099-1-ND	Triple 3-Input NAND Gate	14-SOP	.50	.40	.30
CD4023BNSR	296-14099-2-ND	Triple 3-Input NAND Gate	14-SOP	308.00/2,000		
CD4024BE	296-2042-5-ND	7-Stage, Ripple-Carry Binary Counter	14-Dip	.46	.37	.28
CD4024BM96	296-14258-1-ND	7-Stage, Ripple-Carry Binary Counter	14-SOIC	.50	.40	.30
CD4024BM96	296-14258-2-ND	7-Stage, Ripple-Carry Binary Counter	14-SOIC	372.50/2,500		
CD4024BPWR	296-12760-1-ND	7-Stage, Ripple-Carry Binary Counter	14-TSSOP	.50	.40	.30
CD4024BPWR	296-12760-2-ND	7-Stage, Ripple-Carry Binary Counter	14-TSSOP	308.00/2,000		
CD4025BE	296-2043-5-ND	Triple 3-Input NOR Gate	14-Dip	.50	.40	.30
CD4025BM96	296-14100-1-ND	Triple 3-Input NOR Gate	14-SOIC	.50	.40	.30
CD4025BM96	296-14100-2-ND	Triple 3-Input NOR Gate	14-SOIC	337.50/2,500		
CD4026BE	296-14260-5-ND	Decade Counter/Divider	16-Dip	.75	.63	.50
CD4026BPWR	296-14261-1-ND	Decade Counter/Divider	16-TSSOP	1.02	.85	.68
CD4026BPWR	296-14261-2-ND	Decade Counter/Divider	16-TSSOP	904.00/2,000		
CD4027BE	296-2044-5-ND	Dual JK Master/Slave Flip-Flop	16-Dip	.50	.40	.30
CD4027BM	296-3511-5-ND	Dual JK Master/Slave Flip-Flop	16-SOIC	.55	.44	.33
CD4027BNSR	296-14101-1-ND	Dual JK Master/Slave Flip-Flop	16-SOP	.50	.40	.30
CD4027BNSR	296-14101-2-ND	Dual JK Master/Slave Flip-Flop	16-SOP	308.00/2,000		
CD4027BPWR	296-14262-1-ND	Dual JK Master/Slave Flip-Flop	16-TSSOP	.55	.44	.33
CD4027BPWR	296-14262-2-ND	Dual JK Master/Slave Flip-Flop	16-TSSOP	308.00/2,000		
CD4028BE	296-2045-5-ND	BCD-to-Decimal Decoder	16-Dip	.52	.39	.30
CD4028BM96	296-16702-1-ND	BCD-to-Decimal Decoder	16-SOIC	.50	.40	.30
CD4028BM96	296-16702-2-ND	BCD-to-Decimal Decoder	16-SOIC	372.50/2,500		
CD4028BNSR	296-12724-1-ND	BCD-to-Decimal Decoder	16-SOP	.50	.40	.30
CD4028BNSR	296-12724-2-ND	BCD-to-Decimal Decoder	16-SOP	308.00/2,000		
CD4029BE	296-2046-5-ND	Preset Up/Down Binary Counter	16-Dip	.52	.39	.30
CD4029BPWR	296-17105-1-ND	Preset Up/Down Binary Counter	16-TSSOP	.60	.48	.36
CD4029BPWR	296-17105-2-ND	Preset Up/Down Binary Counter	16-TSSOP	336.00/2,000		
CD4030BE	296-2047-5-ND	Quad Exclusive OR Gate	14-Dip	.45	.36	.27
CD4030BM	296-14263-5-ND	Quad Exclusive OR Gate	14-SOIC	.55	.44	.33
CD4030BNSR	296-14102-1-ND	Quad Exclusive OR Gate	14-SOP	.50	.40	.30
CD4030BNSR	296-14102-2-ND	Quad Exclusive OR Gate	14-SOP	308.00/2,000		
CD4030BPWR	296-14103-1-ND	Quad Exclusive OR Gate	14-TSSOP	.50	.40	.30
CD4030BPWR	296-14103-2-ND	Quad Exclusive OR Gate	14-TSSOP	308.00/2,000		
CD4031BE	296-2162-5-ND	CMOS 64-Stage Static Shift Register	16-Dip	1.38	1.15	.92
CD4033BE	296-14264-5-ND	Decade Counter/Divider	16-Dip	1.38	1.10	.83
CD4034BE	296-14237-ND	CMOS 8-Stage Static Bidirectional Parallel/Serial Input/Output Bus Register	24-Dip	1.88	1.50	1.13
CD4035BE	296-2163-5-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register	16-Dip	1.44	1.20	.96
CD4035BPWR	296-14267-1-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register	16-TSSOP	1.44	1.20	.96
CD4035BPWR	296-14267-2-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register	16-TSSOP	1276.00/2,000		
CD4040BE	296-2048-5-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	16-Dip	.50	.40	.30
CD4040BNSR	296-13770-1-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	16-SOP	.50	.40	.30
CD4040BNSR	296-13770-2-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	16-SOP	308.00/2,000		
CD4040BPWR	296-12761-1-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	14-TSSOP	.55	.44	.33
CD4040BPWR	296-12761-2-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	14-TSSOP	308.00/2,000		
CD4041UBE	296-2164-5-ND	Quad True/Complement Buffer	14-Dip	.96	.72	.54
CD4041UBPWR	296-14104-1-ND	Quad True/Complement Buffer	14-TSSOP	.96	.72	.54
CD4041UBPWR	296-14104-2-ND	Quad True/Complement Buffer	14-TSSOP	638.00/2,000		
CD4042BE	296-2049-5-ND	Quad D-Type Latch	16-Dip	.48	.36	.27
CD4043BE	296-2050-5-ND	Tri-State Quad NOR R/S Latch	16-Dip	.60	.45	.34
CD4043BDW	296-14269-5-ND	Tri-State Quad NOR R/S Latch	16-SOIC	.60	.45	.34
CD4043BNSR	296-14105-1-ND	Tri-State Quad NOR R/S Latch	16-SOP	.60	.45	.34
CD4043BNSR	296-14105-2-ND	Tri-State Quad NOR R/S Latch	16-SOP	400.00/2,000		
CD4043BPWR	296-14106-1-ND	Tri-State Quad NOR R/S Latch	16-TSSOP	.60	.45	.34
CD4043BPWR	296-14106-2-ND	Tri-State Quad NOR R/S Latch	16-TSSOP	400.00/2,000		
CD4044BE	296-2051-5-ND	Quad NAND R/S Latch	16-Dip	.60	.45	.34
CD4044BNSR	296-12762-1-ND	Quad NAND R/S Latch	16-SOP	.52	.39	.30
CD4044BNSR	296-12762-2-ND	Quad NAND R/S Latch	16-SOP	346.00/2,000		
CD4045BE	296-3512-5-ND	Divide by N-Counter	16-Dip	.56	.42	.32
CD4045BPWR	296-14107-1-ND	Divide by N-Counter	16-TSSOP	.56	.42	.32
CD4045BPWR	296-14107-2-ND	Divide by N-Counter	16-TSSOP	372.00/2,000		
CD4046BE	296-2052-5-ND	Micropower Phase Lock Loop	16-Dip	.56	.42	.32
CD4046BNSR	296-14108-1-ND	Micropower Phase Lock Loop	16-SOP	.72	.54	.41
CD4046BNSR	296-14108-2-ND	Micropower Phase Lock Loop	16-SOP	478.00/2,000		
CD4046BPWR	296-14109-1-ND	Micropower Phase Lock Loop	16-TSSOP	.56	.42	.32
CD4046BPWR	296-14109-2-ND	Micropower Phase Lock Loop	16-TSSOP	372.00/2,000		
CD4047BE	296-2053-5-ND	CMOS Low Power Monostable/Astable Multivibrator	14-Dip	.48	.38	.29
CD4047BNSR	296-14110-1-ND	CMOS Low Power Monostable/Astable Multivibrator	14-SOP	.50	.40	.30
CD4047BNSR	296-14110-2-ND	CMOS Low Power Monostable/Astable Multivibrator	14-SOP	308.00/2,000		
CD4047BPWR	296-13642-1-ND	CMOS Low Power Monostable/Astable Multivibrator	14-TSSOP	.50	.40	.30
CD4047BPWR	296-13642-2-ND	CMOS Low Power Monostable/Astable Multivibrator	14-TSSOP	308.00/2,000		
CD4048BE	296-2054-5-ND	Expandable 8-Input Gate	16-Dip	.66	.50	.38
CD4049UBE	296-2055-5-ND	Hex Inverting Buffer/Converter	16-Dip	.50	.40	.30
CD4049UBNSR	296-14112-1-ND	Hex Inverting Buffer/Converter	16-SOP	.50	.40	.30
CD4049UBNSR	296-14112-2-ND	Hex Inverting Buffer/Converter	16-SOP	308.00/2,000		
CD4050BE	296-2056-5-ND	Hex Non-Inverting Buffer/Converter	16-Dip	.50	.40	.30
CD4050BDWR	296-14270-1-ND	Hex Non-Inverting Buffer/Converter	16-SOIC	.50	.40	.30
CD4050BDWR	296-14270-2-ND	Hex Non-Inverting Buffer/Converter	16-SOIC	308.00/2,000		
CD4050BNSR	296-14113-1-ND	Hex Non-Inverting Buffer/Converter	16-SOP	.50	.40	.30
CD4050BNSR	296-14113-2-ND	Hex Non-Inverting Buffer/Converter	16-SOP	308.00/2,000		
CD4051BE	296-2057-5-ND	8-Channel Analog Mux/Demux	16-Dip	.58	.47	.35
CD4051BM96	296-14271-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.55	.44	.33
CD4051BM96	296-14271-2-ND	8-Channel Analog Mux/Demux	16-SOIC	372.50/2,500		
CD4051BNSR	296-14115-1-ND	8-Channel Analog Mux/Demux	16-SOP	.52	.39	.30
CD4051BNSR	296-14115-2-ND	8-Channel Analog Mux/Demux	16-SOP	346.00/2,000		
CD4051BPWR	296-11993-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.48	.36	.27
CD4051BPWR	296-11993-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	320.00/2,000		
CD4051BQPWRQ1	296-17760-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.56	.42	.32
CD4051BQPWRQ1	296-17760-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	372.00/2,000		
CD4052BE	296-2058-5-ND	4-Channel Analog Mux/Demux	16-Dip	.50	.40	.30
CD4052BM96	296-14272-1-ND	4-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD4052BM96	296-14272-2-ND	4-Channel Analog Mux/Demux	16-SOIC	372.50/2,500		
CD4052BNSR	296-14116-1-ND	4-Channel Analog Mux/Demux	16-SOP	.50	.40	.30
CD4052BNSR	296-14116-2-ND	4-Channel Analog Mux/Demux	16-SOP	308.00/2,000		
CD4052BPWR	296-14273-1-ND	4-Channel Analog Mux/Demux	16-TSSOP	.55	.44	.33
CD4052BPWR	296-14273-2-ND	4-Channel Analog Mux/Demux	16-TSSOP	308.00/2,000		
CD4053BE	296-2059-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.45	.36	.27
CD4053BM96	296-14274-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.45	.36	.27
CD4053BM96	296-14274-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	300.00/2,500		
CD4053BPWR	296-14117-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.55	.44	.33
CD4053BPWR	296-14117-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	308.00/2,000		
CD4054BE	296-3514-5-ND	CMOS 4-Segment LCD Driver	16-Dip	.52	.39	.30
CD4055BE	296-14275-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	.80	.60	.45
CD4056BE	296-14118-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	.62	.47	.35
CD4059AE	296-3515-5-ND	CMOS Prog. Divide-by-N Counter	24-Dip	2.48	1.98	1.54
CD4060BE	296-2060-5-ND	14-Stage Ripple Counter/Divider and Oscillator	16-Dip	.55	.44	.33
CD4060BPWR	296-14119-1-ND	14-Stage Ripple Counter/Divider and Oscillator	16-TSSOP	.55	.44	.33

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T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
CD4060BPWR	296-14119-2-ND	14-Stage Ripple Counter/Divider and Oscillator	16-TSSOP	308.00/2,000		
CD4063BE	296-14120-5-ND	4-Bit Magnitude Comparator	16-Dip	.72	.54	.41
CD4063BNSR	296-14121-1-ND	4-Bit Magnitude Comparator	16-SOP	.72	.54	.41
CD4063BNSR	296-14121-2-ND	4-Bit Magnitude Comparator	16-SOP	478.00/2,000		
CD4066BE	296-2061-5-ND	Quad Bilateral Switch	14-Dip	.45	.36	.27
CD4066BM	296-3516-5-ND	Quad Bilateral Switch	14-SOIC	.45	.36	.27
CD4066BM96	296-14475-1-ND	Quad Bilateral Switch	14-SOIC	.45	.36	.27
CD4066BM96	296-14475-2-ND	Quad Bilateral Switch	14-SOIC	300.00/2,500		
CD4066BNSR	296-14122-1-ND	Quad Bilateral Switch	14-SOP	.55	.44	.33
CD4066BNSR	296-14122-2-ND	Quad Bilateral Switch	14-SOP	308.00/2,000		
CD4066BPWR	296-14123-1-ND	Quad Bilateral Switch	14-TSSOP	.55	.44	.33
CD4066BPWR	296-14123-2-ND	Quad Bilateral Switch	14-TSSOP	308.00/2,000		
CD4067BE	296-3517-5-ND	Single 16-Channel Analog Mux/Demux	24-Dip	1.25	1.05	.84
CD4068BE	296-14124-5-ND	8-Input NAND/AND Gate	14-Dip	.48	.36	.27
CD4068BM96	296-15355-1-ND	8-Input NAND/AND Gate	14-SOIC	.55	.44	.33
CD4068BM96	296-15355-2-ND	8-Input NAND/AND Gate	14-SOIC	372.50/2,500		
CD4068BNSR	296-14125-1-ND	8-Input NAND/AND Gate	14-SOP	.55	.44	.33
CD4068BNSR	296-14125-2-ND	8-Input NAND/AND Gate	14-SOP	308.00/2,000		
CD4069UBE	296-3518-5-ND	Hex Inverter	14-Dip	.45	.36	.27
CD4069UBM	296-3519-5-ND	Hex Inverter	14-SOIC	.55	.44	.33
CD4069UBM96	296-14476-1-ND	Hex Inverter	14-SOIC	.55	.44	.33
CD4069UBM96	296-14476-2-ND	Hex Inverter	14-SOIC	372.50/2,500		
CD4069UBNSR	296-14126-1-ND	Hex Inverter	14-SOP	.55	.44	.33
CD4069UBNSR	296-14126-2-ND	Hex Inverter	14-SOP	308.00/2,000		
CD4069UBPWR	296-14127-1-ND	Hex Inverter	14-TSSOP	.55	.44	.33
CD4069UBPWR	296-14127-2-ND	Hex Inverter	14-TSSOP	308.00/2,000		
CD4070BE	296-14128-5-ND	Quad Exclusive OR Gate	14-Dip	.45	.36	.27
CD4070BM	296-14276-5-ND	Quad Exclusive OR Gate	14-SOIC	.50	.40	.30
CD4070BNSR	296-14129-1-ND	Quad Exclusive OR Gate	14-SOP	.50	.40	.30
CD4070BNSR	296-14129-2-ND	Quad Exclusive OR Gate	14-SOP	280.00/2,000		
CD4070BPWR	296-14277-1-ND	Quad Exclusive OR Gate	14-TSSOP	.50	.40	.30
CD4070BPWR	296-14277-2-ND	Quad Exclusive OR Gate	14-TSSOP	280.00/2,000		
CD4071BE	296-2062-5-ND	Quad 2-Input OR Gate	14-Dip	.45	.36	.27
CD4071BM	296-14278-5-ND	Quad 2-Input OR Gate	14-SOIC	.50	.40	.30
CD4071BNSR	296-14130-1-ND	Quad 2-Input OR Gate	14-SOP	.50	.40	.30
CD4071BNSR	296-14130-2-ND	Quad 2-Input OR Gate	14-SOP	280.00/2,000		
CD4071BPW	296-14131-5-ND	Quad 2-Input OR Gate	14-TSSOP	.50	.40	.30
CD4072BE	296-2063-5-ND	Dual 4-Input OR Gate	14-Dip	.55	.44	.33
CD4072BNSR	296-14132-1-ND	Dual 4-Input OR Gate	14-SOP	.50	.40	.30
CD4072BNSR	296-14132-2-ND	Dual 4-Input OR Gate	14-SOP	280.00/2,000		
CD4073BE	296-2064-5-ND	Triple 3-Input AND Gate	14-Dip	.55	.44	.33
CD4073BM	296-3520-5-ND	Triple 3-Input AND Gate	14-SOIC	.55	.44	.33
CD4073BNSR	296-14133-1-ND	Triple 3-Input AND Gate	14-SOP	.55	.44	.33
CD4073BNSR	296-14133-2-ND	Triple 3-Input AND Gate	14-SOP	308.00/2,000		
CD4073BPWR	296-14134-1-ND	Triple 3-Input AND Gate	14-TSSOP	.55	.44	.33
CD4073BPWR	296-14134-2-ND	Triple 3-Input AND Gate	14-TSSOP	308.00/2,000		
CD4075BE	296-2065-5-ND	Triple 3-Input OR Gate	14-Dip	.55	.44	.33
CD4075BM	296-14279-5-ND	Triple 3-Input OR Gate	14-SOIC	.55	.44	.33
CD4075BNSR	296-14136-1-ND	Triple 3-Input OR Gate	14-SOP	.55	.44	.33
CD4075BNSR	296-14136-2-ND	Triple 3-Input OR Gate	14-SOP	308.00/2,000		
CD4076BE	296-14137-5-ND	4-Bit D-Type Register	16-Dip	.60	.45	.34
CD4077BE	296-13771-5-ND	CMOS Quad Exclusive NOR Gate	14-Dip	.48	.36	.27
CD4077BM	296-9406-5-ND	CMOS Quad Exclusive NOR Gate	14-SOIC	.55	.44	.33
CD4078BE	296-3521-5-ND	8-Input NOR/OR Gate	14-Dip	.55	.44	.33
CD4078BM	296-14138-5-ND	8-Input NOR/OR Gate	14-SOIC	.55	.44	.33
CD4078BNSR	296-14139-1-ND	8-Input NOR/OR Gate	14-SOP	.55	.44	.33
CD4078BNSR	296-14139-2-ND	8-Input NOR/OR Gate	14-SOP	308.00/2,000		
CD4078BPWR	296-23202-1-ND	8-Input NOR/OR Gate ***NEW!***	14-TSSOP	.55	.44	.33
CD4078BPWR	296-23202-2-ND	8-Input NOR/OR Gate ***NEW!***	14-TSSOP	308.00/2,000		
CD4081BE	296-2066-5-ND	Quad 2-Input AND Gate	14-Dip	.45	.36	.27
CD4081BM	296-14280-5-ND	Quad 2-Input AND Gate	14-SOIC	.55	.44	.33
CD4081BNSR	296-14140-1-ND	Quad 2-Input AND Gate	14-SOP	.72	.58	.40
CD4081BNSR	296-14140-2-ND	Quad 2-Input AND Gate	14-SOP	308.00/2,000		
CD4081BPWR	296-14141-1-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.37	.26
CD4081BPWR	296-14141-2-ND	Quad 2-Input AND Gate	14-TSSOP	308.00/2,000		
CD4082BE	296-2067-5-ND	Dual 4-Input AND Gate	14-Dip	.55	.44	.33
CD4085BE	296-3522-5-ND	Dual 2-Wide/2-In AND/OR Invert Gate	14-Dip	.84	.63	.48
CD4085BPWR	296-14143-1-ND	Dual 2-Wide/2-In AND/OR Invert Gate	14-TSSOP	.84	.63	.48
CD4085BPWR	296-14143-2-ND	Dual 2-Wide/2-In AND/OR Invert Gate	14-TSSOP	558.00/2,000		
CD4086BE	296-14281-5-ND	Expandable 4-Wide/2-Input AND/OR Invert Gate	14-Dip	.92	.69	.52
CD4089BE	296-2165-5-ND	Binary Rate Multiplier	16-Dip	1.20	1.00	.80
CD4089BPWR	296-3523-1-ND	Binary Rate Multiplier	16-TSSOP	1.20	1.00	.80
CD4089BPWR	296-3523-2-ND	Binary Rate Multiplier	16-TSSOP	1064.00/2,000		
CD4093BE	296-2068-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.45	.36	.27
CD4093BM	296-3524-5-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.55	.44	.33
CD4093BNSR	296-14145-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOP	.50	.40	.30
CD4093BNSR	296-14145-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOP	308.00/2,000		
CD4093BPW	296-14146-5-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	.55	.44	.33
CD4093BPWR	296-13873-1-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	.50	.40	.30
CD4093BPWR	296-13873-2-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	308.00/2,000		
CD4094BE	296-2069-5-ND	8-Bit Shift Register with Latch	16-Dip	.58	.47	.35
CD4094BPWR	296-13860-1-ND	8-Bit Shift Register with Latch	16-TSSOP	.55	.44	.33
CD4094BPWR	296-13860-2-ND	8-Bit Shift Register with Latch	16-TSSOP	308.00/2,000		
CD4097BE	296-3525-5-ND	Diff. 8-Channel Analog Mux/Demux	24-Dip	1.88	1.50	1.13
CD4098BE	296-3526-5-ND	Dual Monostable Multivibrator	16-Dip	.58	.47	.35
CD4098BM	296-16736-5-ND	Dual Monostable Multivibrator	16-SOIC	.48	.36	.27
CD4099BE	296-2070-5-ND	8-Bit Addressable Latch	16-Dip	.58	.47	.35
CD4099BPWR	296-9407-1-ND	8-Bit Addressable Latch	16-TSSOP	.48	.36	.27
CD4099BPWR	296-9407-2-ND	8-Bit Addressable Latch	16-TSSOP	320.00/2,000		
CD4502BE	296-2166-5-ND	CMOS Strobed Hex Inverter/Buffer	16-Dip	.48	.36	.27
CD4502BNSR	296-14148-1-ND	Strobed Hex Inverter/Buffer	16-SOP	.48	.36	.27
CD4502BNSR	296-14148-2-ND	Strobed Hex Inverter/Buffer	16-SOP	320.00/2,000		
CD4503BE	296-2071-5-ND	Tri-State Hex Buffer	16-Dip	.53	.40	.30
CD4504BE	296-3527-5-ND	Hex Voltage-Level Shifter	16-Dip	.80	.60	.45
CD4504BM96	296-14150-1-ND	Hex Voltage-Level Shifter	16-SOIC	.80	.60	.45
CD4504BM96	296-14150-2-ND	Hex Voltage-Level Shifter	16-SOIC	650.00/2,500		
CD4504BPW	296-23203-5-ND	Hex Voltage-Level Shifter ***NEW!***	16-TSSOP	.80	.60	.45
CD4504BPWR	296-12010-1-ND	Hex Voltage-Level Shifter	16-TSSOP	.80	.60	.45
CD4504BPWR	296-12010-2-ND	Hex Voltage-Level Shifter	16-TSSOP	532.00/2,000		
CD4508BE	296-14151-5-ND	Dual 4-Bit Latch	24-Dip	1.55	1.24	.93
CD4510BNSR	296-14152-1-ND	BCD Presettable Up/Down Counter	16-SOP	.52	.39	.30
CD4510BNSR	296-14152-2-ND	BCD Presettable Up/Down Counter	16-SOP	346.00/2,000		
CD4510BPWR	296-14153-1-ND	BCD Presettable Up/Down Counter	16-TSSOP	.52	.39	.30
CD4510BPWR	296-14153-2-ND	BCD Presettable Up/Down Counter	16-TSSOP	346.00/2,000		
CD4511BE	296-2072-5-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-Dip	.65	.52	.39
CD4511BNSR	296-3528-1-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-SOP	.48	.36	.27
CD4511BNSR	296-3528-2-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-SOP	320.00/2,000		
CD4511BPWR	296-3529-1-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-TSSOP	.48	.36	.27
CD4511BPWR	296-3529-2-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-TSSOP	336.00/2,000		
CD4512BE	296-2073-5-ND	8-Channel Data Selector	16-Dip	.58	.47	.35
CD4512BM96	296-16676-1-ND	8-Channel Data Selector	16-SOIC	.55	.44	.33
CD4512BM96	296-16676-2-ND	8-Channel Data Selector	16-SOIC	372.50/2,500		
CD4514BE	296-2074-5-ND	4-Bit Latch/Line Decoder	24-Dip	1.14	.95	.76
CD4514BM	296-14282-5-ND	4-Bit Latch/Line Decoder	24-SOIC	.80	.60	.45
CD4515BE	296-2168-5-ND	4-Bit Latch/Line Decoder	24-Dip	.90	.75	.60
CD4515BM	296-14284-5-ND	4-Bit Latch/Line Decoder	24-SOIC	.80	.60	.45
CD4516BE	296-2075-5-ND	Binary Up/Down Counter	16-Dip	.64	.48	.36
CD4516BPWR	296-3530-1-ND	Binary Up/Down Counter	16-TSSOP	.64	.48	.36
CD4516BPWR	296-3530-2-ND	Binary Up/Down Counter	16-TSSOP	426.00/2,000		
CD4517BE	296-14285-5-ND	Dual 64-Stage Static Shift Register	16-Dip	1.25	1.00	.75
CD4518BE	296-2076-5-ND	Dual BCD Up Counter	16-Dip	.53	.40	.30
CD4518BNSR	296-14157-1-ND	Dual BCD Up Counter	16-SOP	.48	.36	.27
CD4518BNSR	296-14157-2-ND	Dual BCD Up Counter	16-SOP	320.00/2,000		
CD4520BE	296-2077-5-ND	Dual Binary Up Counter	16-Dip	.48	.36	.27
CD4521BE	296-14158-5-ND	24-Stage Frequency Divider	16-Dip	.76	.57	.43
CD4522BE	296-3531-5-ND	Programmable BCD Divide-by-N Counter	16-Dip	.53	.40	.30
CD4527BE	296-3532-5-ND	BCD Rate Multiplier	16-Dip	.64	.48	.36
CD4527BNSR	296-14159-1-ND	BCD Rate Multiplier	16-SOP	.56	.42	.32
CD4527BNSR	296-14159-2-ND	BCD Rate Multiplier	16-SOP	372.00/2,000		
CD4527BPWR	296-14160-1-ND	BCD Rate Multiplier	16-TSSOP	.56	.42	.32
CD4527BPWR	296-14160-2-ND	BCD Rate Multiplier	16-TSSOP	372.00/2,000		
CD4532BE	296-3533-5-ND	8-Bit Priority Encoder	16-Dip	.48	.36	.27
CD4532BPWR	296-14161-1-ND	8-Bit Priority Encoder	16-TSSOP	.48	.36	.27
CD4532BPWR	296-14161-2-ND	8-Bit Priority Encoder	16-TSSOP	320.00/2,000		
CD4536BE	296-3534-5-ND	CMOS Programmable Timer	16-Dip	.72	.54	.41
CD4536BNSR	296-14304-1-ND	CMOS Programmable Timer	16-SOP	.64	.48	.36
CD4536BNSR	296-14304-2-ND	CMOS Programmable Timer	16-SOP	426.00/2,000		
CD4541BE	296-2078-5-ND	Programmable Timer	14-Dip	.45	.36	.27
CD4541BM	296-3535-5-ND	Programmable Timer	14-SOIC	.55	.44	.33
CD4541BM96	296-3536-1-ND	Programmable Timer	14-SOIC	.45	.36	.27
CD4541BM96	296-3536-2-ND	Programmable Timer	14-SOIC	300.00/2,500		
CD4543BE	296-2079-5-ND	BCD to 7-Segment Decoder Driver	16-Dip	.48	.36	.27
CD4543BPWR	296-17106-1-ND	BCD to 7-Segment Decoder Driver	16-TSSOP	.48	.36	.27
CD4543BPWR	296-17106-2-ND	BCD to 7-Segment Decoder Driver	16-TSSOP	320.00/2,000		
CD4555BE	296-14286-5-ND	Dual Binary to 1-of-4 Decoder/Demux	16-Dip	.32	.42	.32
CD4556BE	296-3537-5-ND	Dual Binary to 1-of-4 Decoder/Demux	16-Dip	.72	.54	.41
CD4572UBE	296-14287-5-ND	CMOS Hex Gate	16-Dip	.99	.83	.66
CD4585BE	296-2080-5-ND	4-Bit Magnitude Comparator	16-Dip	.72	.54	.41
CD4724BE	296-2169-5-ND	8-Bit Addressable Latch	16-Dip	.80	.60	.45
CD4724BPWR	296-14162-1-ND	8-Bit Addressable Latch	16-TSSOP	.80	.60	.45
CD4724BPWR	296-14162-2-ND	8-Bit Addressable Latch	16-TSSOP	532.00/2,000		
CD14538BE	296-14074-5-ND	Dual Precision Monostable Multivibrator	16-Dip	.80	.60	.45
CD14538BNSR	296-14075-1-ND	Dual Precision Monostable Multivibrator	16-SOP	.80	.60	.45
CD14538BNSR	296-14075-2-ND	Dual Precision Monostable Multivibrator	16-SOP	532.00/2,000		
CD14538BPWR	296-12018-1-ND	CMOS Dual Precision Monostable Multivibrator	16-TSSOP	.80	.60	.45
CD14538BPWR	296-12018-2-ND	CMOS Dual Precision Monostable Multivibrator	16-TSSOP	532.00/2,000		
CD40102BE	296-14079-5-ND	2-Decade BCD 8-Stage Sync. Down Counter	16-Dip	.96	.80	.64
CD40102BPWR	296-14241-1-ND	2-Decade BCD 8-Stage Sync. Down Counter	16-TSSOP	.96	.80	.64
CD40102BPWR	296-14241-2-ND	2-Decade BCD 8-Stage Sync. Down Counter	16-TSSOP	852.00/2,000		
CD40103BE	296-14080-5-ND	8-Bit Binary 8-Stage Sync. Down Counter	16-Dip	.96	.80	.64
CD40105BE	296-14242-5-ND	CMOS FIFO Register	16-Dip	1.28	1.02	.77
CD40106BE	296-3503-5-ND	Hex Schmitt Trigger	14-Dip	.45	.36	.27
CD40106BM96	296-14081-1-ND	Hex Schmitt Trigger	14-SOIC	.50	.40	.30
CD40106BM96	296-14081-2-ND	Hex Schmitt Trigger	14-SOIC	337.50/2,500		
CD40106BPWR	296-14082-1-ND	Hex Schmitt Trigger	14-TSSOP	.45	.36	.27
CD40106BPWR	296-14082-2-ND	Hex Schmitt Trigger	14-TSSOP	250.00/2,000		
CD40107BE	296-3504-5-ND	Dual 2-Input NAND Buffer/Driver	8-Dip	.48	.37	.28
CD40107BPSR	296-14083-1-ND	Dual 2-Input NAND Buffer/Driver	8-SOP	.56	.42	.32
CD40107BPSR	296-14083-2-ND	Dual 2-Input NAND Buffer/Driver	8-SOP	372.00/2,000		
CD40109BE	296-3505-5-ND	Quad Low-High Voltage Level Shifter	16-Dip	.66	.50	.38
CD40109BPWR	296-12163-1-ND	Quad Low-High Voltage Level Shifter	16-TSSOP	1.14	.95	.76
CD40109BPWR	296-12163-2-ND	Quad Low-High Voltage Level Shifter	16-TSSOP	532.00/2,000		
CD40110BE	296-3506-5-ND	Decade Up-Down Counter/Latch/Display Driver	16-Dip	1.50	1.20	.90
CD40117BE	296-14244-5-ND	Programmable Dual 4-Bit Terminator	14-Dip	.96	.72	.54
CD40147BE	296-14247-5-ND	10-4 BCD Priority Encoder	16-Dip	1.14	.95	.76
CD40161BE	296-2170-5-ND	Synchronous 4-Bit Binary Counter	16-Dip	.56	.42	.32
CD40161BNSR	296-14091-1-ND	Synchronous 4-Bit Binary Counter	16-SOP	.56	.42	.32
CD40161BNSR	296-14091-2-ND	Synchronous 4-Bit Binary Counter	16-SOP	372.00/2,000		
CD40161BPWR	296-14249-1-ND	Synchronous 4-Bit Binary Counter	16-TSSOP	.56	.42	.32
CD40161BPWR	296-14249-2-ND	Synchronous 4-Bit Binary Counter	16-TSSOP	372.00/2,000		
CD40174BE	296-3508-5-ND	Hex D-Type Flip-Flop	16-Dip	.52	.39	.30
CD40175BE	296-14251-5-ND	Quad D-Type Flip-Flop	16-Dip	.48	.36	.27
CD40175BPWR	296-14093-1-ND	Quad D-Type Flip-Flop	16-TSSOP	.48	.36	.27
CD40175BPWR	296-14093-2-ND	Quad D-Type Flip-Flop	16-TSSOP	320.00/2,000		
CD40192BE	296-3509-5-ND	Presettable Up/Down BCD Counter (Dual Clock with Reset)	16-Dip	.56	.42	.32
CD40192BNSR	296-14096-1-ND	Presettable Up/Down Counter	16-SOP	.56	.42	.32
CD40192BNSR	296-14096-2-ND	Presettable Up/Down Counter	16-SOP	372.00/2,000		
CD40193BE	296-3510-5-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset)	16-Dip	.72	.54	.41
CD40193BPWR	296-14253-1-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset)	16-TSSOP	.64	.48	.36
CD40193BPWR	296-14253-2-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset)	16-TSSOP	426.00/2,000		
CD40194BE	296-14254-5-ND	4-Bit Bidirectional Univ. Shift Register	16-Dip	.78	.65	.52
CD40257BE	296-14259-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.80	.60	.45

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ABT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CABT16245AMDLREP	296-19490-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	5.04	4.04	3.14
CABT16245AMDLREP	296-19490-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2856.00/1,000		
CABT16373AMDLREP	296-22091-1-ND	Tri-State 16-Bit Transparent D-Type Latch ***NEW!***	48-SSOP	5.56	4.45	3.46
CABT16373AMDLREP	296-22091-2-ND	Tri-State 16-Bit Transparent D-Type Latch ***NEW!***	48-SSOP	3149.00/1,000		
SN74ABT125D	296-1019-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.50	.40	.30
SN74ABT125DR	296-1019-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.64	.48	.36
SN74ABT125DR	296-1019-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	520.00/2,500		
SN74ABT125DBR	296-3875-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.64	.48	.36
SN74ABT125DBR	296-3875-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	426.00/2,000		
SN74ABT125N	296-3876-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.64	.48	.36
SN74ABT125PWR	296-3877-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.70	.53	.40
SN74ABT125PWR	296-3877-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	468.00/2,000		
SN74ABT125RGYR	296-13888-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.80	.60	.45
SN74ABT125RGYR	296-13888-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	266.00/1,000		
SN74ABT126DR	296-1020-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.53	.42	.32
SN74ABT126DR	296-1020-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	355.00/2,500		
SN74ABT126DBR	296-3878-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.64	.48	.36
SN74ABT126DBR	296-3878-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	426.00/2,000		
SN74ABT126N	296-3879-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.64	.48	.36
SN74ABT126PWR	296-3880-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.70	.53	.40
SN74ABT126PWR	296-3880-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	468.00/2,000		
SN74ABT126RGYR	296-13889-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.80	.60	.45
SN74ABT126RGYR	296-13889-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	266.00/1,000		
SN74ABT240ADBR	296-3959-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.88	.66	.50
SN74ABT240ADBR	296-3959-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	586.00/2,000		
SN74ABT240ADW	296-3960-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT240ADWR	296-14662-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT240ADWR	296-14662-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	586.00/2,000		
SN74ABT240AN	296-3961-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.88	.66	.50
SN74ABT240APWR	296-3962-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.88	.66	.50
SN74ABT240APWR	296-3962-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	586.00/2,000		
SN74ABT241ADBR	296-3963-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.88	.66	.50
SN74ABT241ADBR	296-3963-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	586.00/2,000		
SN74ABT241ADW	296-3964-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT241ADWR	296-14663-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT241ADWR	296-14663-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	586.00/2,000		
SN74ABT241AN	296-3965-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.88	.66	.50
SN74ABT241APWR	296-3966-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.88	.66	.50
SN74ABT241APWR	296-3966-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	586.00/2,000		
SN74ABT244ADBR	296-1037-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.62	.47	.35
SN74ABT244ADBR	296-1037-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	410.00/2,000		
SN74ABT244ADW	296-1038-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74ABT244ADWR	296-1038-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.55	.42	.32
SN74ABT244ADWR	296-1038-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	368.00/2,000		
SN74ABT244AMDBREP	296-22245-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SSOP	2.52	2.02	1.57
SN74ABT244AMDBREP	296-22245-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SSOP	2856.00/2,000		
SN74ABT244AN	296-3967-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.80	.60	.45
SN74ABT244ANSR	296-15878-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.80	.60	.45
SN74ABT244ANSR	296-15878-2-ND	Tri-State Octal Buffer/Driver	20-SOP	532.00/2,000		
SN74ABT244APWR	296-3968-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.62	.47	.35
SN74ABT244APWR	296-3968-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	410.00/2,000		
SN74ABT245BDBR	296-1039-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.62	.47	.35
SN74ABT245BDBR	296-1039-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	410.00/2,000		
SN74ABT245BDGVR	296-3969-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.80	.60	.45
SN74ABT245BDGVR	296-3969-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	532.00/2,000		
SN74ABT245BDW	296-1040-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.72	.54	.41
SN74ABT245BDWR	296-1040-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.72	.54	.41
SN74ABT245BDWR	296-1040-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	478.00/2,000		
SN74ABT245BGQNR	296-12461-1-ND	Tri-State Octal Bus Transceiver	20-VFBGA	1.14	.95	.76
SN74ABT245BGQNR	296-12461-2-ND	Tri-State Octal Bus Transceiver	20-VFBGA	505.00/1,000		
SN74ABT245BMDBREP	296-22246-1-ND	Tri-State Octal Bus Transceiver ***NEW!***	20-SSOP	1.20	1.00	.80
SN74ABT245BMDBREP	296-22246-2-ND	Tri-State Octal Bus Transceiver ***NEW!***	20-SSOP	1064.00/2,000		
SN74ABT245BN	296-3970-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.72	.54	.41
SN74ABT245BNSR	296-15879-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.72	.54	.41
SN74ABT245BNSR	296-15879-2-ND	Tri-State Octal Bus Transceiver	20-SOP	478.00/2,000		
SN74ABT245BPWR	296-3971-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.72	.54	.41
SN74ABT245BPWR	296-3971-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	478.00/2,000		
SN74ABT245BRGYR	296-13890-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.88	.66	.50
SN74ABT245BRGYR	296-13890-2-ND	Tri-State Octal Bus Transceiver	20-QFN	293.00/1,000		
SN74ABT273DBR	296-1041-1-ND	Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74ABT273DBR	296-1041-2-ND	Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74ABT273DW	296-1042-5-ND	Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT273DWR	296-1042-1-ND	Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT273DWR	296-1042-2-ND	Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74ABT273N	296-3972-5-ND	Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
SN74ABT273PWR	296-3973-1-ND	Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74ABT273PWR	296-3973-2-ND	Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74ABT373DBR	296-4002-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.80	.60	.45
SN74ABT373DBR	296-4002-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	532.00/2,000		
SN74ABT373DW	296-1043-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74ABT373DWR	296-1043-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74ABT373DWR	296-1043-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	532.00/2,000		
SN74ABT373N	296-4003-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.88	.66	.50
SN74ABT373NSR	296-15880-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.80	.60	.45
SN74ABT373NSR	296-15880-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	532.00/2,000		
SN74ABT373PWR	296-4004-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.80	.60	.45
SN74ABT373PWR	296-4004-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	532.00/2,000		
SN74ABT374ADBR	296-4005-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74ABT374ADBR	296-4005-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74ABT374ADW	296-1044-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT374ADWR	296-1044-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT374ADWR	296-1044-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74ABT374AN	296-4006-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
SN74ABT374APWR	296-4007-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74ABT374APWR	296-4007-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74ABT377ADBR	296-4008-1-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SSOP	.80	.60	.45
SN74ABT377ADBR	296-4008-2-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SSOP	532.00/2,000		
SN74ABT377ADWR	296-4009-1-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SOIC	.80	.60	.45
SN74ABT377ADWR	296-4009-2-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SOIC	532.00/2,000		
SN74ABT377AN	296-4010-5-ND	Octal D-Type Flip-Flop w/Clock Enable	20-Dip	.80	.60	.45
SN74ABT377APWR	296-4011-1-ND	Octal D-Type Flip-Flop w/Clock Enable	20-TSSOP	.80	.60	.45
SN74ABT377APWR	296-4011-2-ND	Octal D-Type Flip-Flop w/Clock Enable	20-TSSOP	532.00/2,000		
SN74ABT533ADBR	296-4012-1-ND	Tri-State Transparent D-Type Latch	20-SSOP	.80	.60	.45
SN74ABT533ADBR	296-4012-2-ND	Tri-State Transparent D-Type Latch	20-SSOP	532.00/2,000		
SN74ABT533ADW	296-4013-5-ND	Tri-State Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74ABT533ADWR	296-4013-1-ND	Tri-State Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74ABT533ADWR	296-4013-2-ND	Tri-State Transparent D-Type Latch	20-SOIC	532.00/2,000		
SN74ABT533APWR	296-4014-1-ND	Tri-State Transparent D-Type Latch	20-TSSOP	.80	.60	.45
SN74ABT533APWR	296-4014-2-ND	Tri-State Transparent D-Type Latch	20-TSSOP	532.00/2,000		
SN74ABT534ADBR	296-4015-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74ABT534ADBR	296-4015-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74ABT534ADW	296-4016-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT534ADWR	296-4016-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT534ADWR	296-4016-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74ABT534APWR	296-4017-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74ABT534APWR	296-4017-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74ABT540DBR	296-4022-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.88	.66	.50
SN74ABT540DBR	296-4022-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	586.00/2,000		
SN74ABT540DW	296-4023-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT540DWR	296-14667-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT540DWR	296-14667-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	586.00/2,000		
SN74ABT540N	296-4024-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.96	.72	.54
SN74ABT541BDBR	296-4025-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.92	.69	.52
SN74ABT541BDBR	296-4025-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	612.00/2,000		
SN74ABT541BDW	296-4026-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.92	.69	.52
SN74ABT541BDWR	296-14668-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.75	.57	.43
SN74ABT541BDWR	296-14668-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	498.00/2,000		
SN74ABT541BIPWREP	296-22247-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	1.30	1.04	.78
SN74ABT541BIPWREP	296-22247-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	1352.00/2,000		
SN74ABT541BN	296-4027-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.96	.72	.54
SN74ABT541BPWR	296-4028-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.92	.69	.52
SN74ABT541BPWR	296-4028-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	612.00/2,000		
SN74ABT543ADBR	296-4029-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	.90	.75	.60
SN74ABT543ADBR	296-4029-2-ND	Tri-State Octal Registered Transceiver	24-SSOP	798.00/2,000		
SN74ABT543ADW	296-4030-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	.90	.75	.60
SN74ABT543ADWR	296-14669-1-ND	Tri-State Octal Registered Transceiver	24-SOIC	.90	.75	.60
SN74ABT543ADWR	296-14669-2-ND	Tri-State Octal Registered Transceiver	24-SOIC	798.00/2,000		
SN74ABT543ANT	296-4031-5-ND	Tri-State Octal Registered Transceiver	24-Dip	1.35	1.13	.90
SN74ABT543APWR	296-4032-1-ND	Tri-State Octal Registered Transceiver	24-TSSOP	1.05	.88	.70
SN74ABT543APWR	296-4032-2-ND	Tri-State Octal Registered Transceiver	24-TSSOP	932.00/2,000		
SN74ABT573ADBR	296-4033-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.80	.60	.45
SN74ABT573ADBR	296-4033-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	532.00/2,000		
SN74ABT573ADW	296-1045-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74ABT573ADWR	296-1045-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74ABT573ADWR	296-1045-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	532.00/2,000		
SN74ABT573AGQNR	296-12087-1-ND	Tri-St. Octal Transparent D-Type Latch	20-VFBGA	1.14	.95	.76
SN74ABT573AGQNR	296-12087-2-ND	Tri-St. Octal Transparent D-Type Latch	20-VFBGA	505.00/1,000		
SN74ABT573ARGYR	296-13891-1-ND	Tri-State Octal D-Type Latch	20-QFN	.92	.69	.52
SN74ABT573ARGYR	296-13891-2-ND	Tri-State Octal D-Type Latch	20-QFN	306.00/1,000		
SN74ABT573AN	296-4034-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.80	.60	.45
SN74ABT573APWR	296-4035-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.80	.60	.45
SN74ABT573APWR	296-4035-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	532.00/2,000		
SN74ABT574ADBR	296-4036-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74ABT574ADBR	296-4036-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74ABT574ADW	296-1046-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT574ADWR	296-1046-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.62	.47	.35
SN74ABT574ADWR	296-1046-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	410.00/2,000		
SN74ABT574AGQNR	296-12088-1-ND	Tri-State Octal D-Type Flip-Flop	20-VFBGA	1.14	.95	.76
SN74ABT574AGQNR	296-12088-2-ND	Tri-State Octal D-Type Flip-Flop	20-VFBGA	505.00/1,000		
SN74ABT574AN	296-4038-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
SN74ABT574APWR	296-4039-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74ABT574APWR	296-4039-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74ABT574ARGYR	296-13892-1-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	.92	.69	.52
SN74ABT574ARGYR	296-13892-2-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	306.00/1,000		
SN74ABT620DBR	296-4040-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.35	1.13	.90
SN74ABT620DBR	296-4040-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	1198.00/2,000		
SN74ABT620DW	296-4041-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74ABT620N	296-4042-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.35	1.13	.90
SN74ABT623DBR	296-4043-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.35	1.13	.90
SN74ABT623DBR	296-4043-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	1198.00/2,000		
SN74ABT623DW	296-4044-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74ABT623DWR	296-14672-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74ABT623DWR	296-14672-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	1198.00/2,000		
SN74ABT623N	296-4045-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.35	1.13	.90
SN74ABT640DBR	296-4046-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.35	1.13	.90
SN74ABT640DBR	296-4046-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	1198.00/2,000		
SN74ABT640DW	296-4047-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74ABT640DWR	296-14673-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74ABT640DWR	296-14673-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	1198.00/2,000		
SN74ABT640N	296-4048-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.35	1.13	.90
SN74ABT640PWR	296-4049-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1.35	1.13	.90
SN74ABT640PWR	296-4049-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1198.00/2,000		
SN74ABT646ADBR	296-4050-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.38	1.15	.92
SN74ABT646ADBR	296-4050-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1224.00/2,000		
SN74ABT646ADGVR	296-4051-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TVSOP	1224.00/2,000		
SN74ABT646ADW	296-4052-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.38	1.15	.92
SN74ABT646ADWR	296-14674-1-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.38	1.15	.92
SN74ABT646ADWR	296-14674-2-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1224.00/2,000		
SN74ABT646ANT	296-4053-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.38	1.15	.92
SN74ABT646DBR	296-4054-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.38	1.15	.92
SN74ABT646DBR	296-4054-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1224.00/2,000		
SN74ABT646DGVR	296-4055-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TVSOP	1.38	1.15	.92
SN74ABT646DGVR	296-4055-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TVSOP	1224.00/2,000		
SN74ABT646DW	296-4056-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.38	1.15	.92
SN74ABT646NT	296-4057-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	2.48	1.98	1.54
SN74ABT646PWR	296-4058-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.38	1.15	.92
SN74ABT646PWR	296-4058-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1224.00/2,000		
SN74ABT651DBR	296-4059-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	3.15	2.52	1.96
SN74ABT651DBR	296-4059-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	3570.00/2,000		
SN74ABT651DW	296-4060-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	3.15	2.52	1.96
SN74ABT651NT	296-4061-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	3.15	2.52	1.96
SN74ABT652ADBR	296-4062-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	1.41	1.18	.94
SN74ABT652ADBR	296-4062-2-ND	Tri-State Octal Registered Transceiver	24-SSOP	1250.00/2,000		
SN74ABT652ADW	296-1047-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.41	1.18	.94

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ABT652ADWR	296-1047-1-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.41	1.18	.94
SN74ABT652ADWR	296-1047-2-ND	Tri-State Octal Registered Transceiver	24-SOIC	1250.00/2,000		
SN74ABT652ANT	296-4063-5-ND	Tri-State Octal Registered Transceiver	24-Dip	1.55	1.24	.93
SN74ABT652DBR	296-4064-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	1.41	1.18	.94
SN74ABT652DBR	296-4064-2-ND	Tri-State Octal Registered Transceiver	24-SSOP	1250.00/2,000		
SN74ABT652DW	296-4065-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.41	1.18	.94
SN74ABT652DWR	296-4065-1-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.41	1.18	.94
SN74ABT652DWR	296-4065-2-ND	Tri-State Octal Registered Transceiver	24-SOIC	1250.00/2,000		
SN74ABT652NT	296-4066-5-ND	Tri-State Octal Transceiver/Register	24-Dip	1.41	1.18	.94
SN74ABT657ADBR	296-4067-1-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SSOP	2.05	1.64	1.23
SN74ABT657ADBR	296-4067-2-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SSOP	2132.00/2,000		
SN74ABT657ADW	296-4068-5-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SOIC	2.05	1.64	1.23
SN74ABT657ADWR	296-14676-1-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SOIC	2.05	1.64	1.23
SN74ABT657ADWR	296-14676-2-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SOIC	2132.00/2,000		
SN74ABT657ANT	296-4069-5-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-Dip	2.05	1.64	1.23
SN74ABT821ADBR	296-4088-1-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SSOP	1.45	1.16	.87
SN74ABT821ADBR	296-4088-2-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SSOP	1508.00/2,000		
SN74ABT821ADW	296-4089-5-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SOP	1.45	1.16	.87
SN74ABT821ADWR	296-14677-1-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SOIC	1.45	1.16	.87
SN74ABT821ADWR	296-14677-2-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SOIC	1508.00/2,000		
SN74ABT821ANT	296-4090-5-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-Dip	1.45	1.16	.87
SN74ABT823DBR	296-1048-1-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SSOP	1.45	1.16	.87
SN74ABT823DBR	296-1048-2-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SSOP	1508.00/2,000		
SN74ABT823DW	296-4091-5-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SOIC	1.45	1.16	.87
SN74ABT823DWR	296-14678-1-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SOIC	1.45	1.16	.87
SN74ABT823DWR	296-14678-2-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SOIC	1508.00/2,000		
SN74ABT823NT	296-4092-5-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-Dip	1.45	1.16	.87
SN74ABT827DBR	296-4094-1-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	1.45	1.16	.87
SN74ABT827DBR	296-4094-2-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	1508.00/2,000		
SN74ABT827DW	296-4095-5-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1.45	1.16	.87
SN74ABT827DWR	296-14680-1-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1.45	1.16	.87
SN74ABT827DWR	296-14680-2-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1508.00/2,000		
SN74ABT827NT	296-4096-5-ND	Tri-State 10-Bit Buffer/Driver	24-Dip	1.45	1.16	.87
SN74ABT827PWR	296-4097-1-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	1.45	1.16	.87
SN74ABT827PWR	296-4097-2-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	1508.00/2,000		
SN74ABT833DW	296-4098-5-ND	8-9-Bit Parity Bus Transceiver	24-SOIC	1.38	1.10	.83
SN74ABT833NT	296-4099-5-ND	8-9-Bit Parity Bus Transceiver	24-Dip	1.38	1.10	.83
SN74ABT841ADBR	296-1049-1-ND	Tri-State 10-Bit Bus D-Type Latch	24-SSOP	1.38	1.10	.83
SN74ABT841ADBR	296-1049-2-ND	Tri-State 10-Bit Bus D-Type Latch	24-SSOP	1430.00/2,000		
SN74ABT841ADW	296-4100-5-ND	Tri-State 10-Bit Bus D-Type Latch	24-SOIC	1.38	1.10	.83
SN74ABT841ADWR	296-14681-1-ND	Tri-State 10-Bit Bus D-Type Latch	24-SOIC	1.38	1.10	.83
SN74ABT841ADWR	296-14681-2-ND	Tri-State 10-Bit Bus D-Type Latch	24-SOIC	1430.00/2,000		
SN74ABT841ANT	296-4101-5-ND	Tri-State 10-Bit Bus D-Type Latch	24-Dip	1.38	1.10	.83
SN74ABT841APWR	296-4102-1-ND	Tri-State 10-Bit Bus D-Type Latch	24-TSSOP	1.38	1.10	.83
SN74ABT841APWR	296-4102-2-ND	Tri-State 10-Bit Bus D-Type Latch	24-TSSOP	1430.00/2,000		
SN74ABT843DBR	296-4103-1-ND	Tri-State 9-Bit Bus D-Type Latch	24-SSOP	1.38	1.10	.83
SN74ABT843DBR	296-4103-2-ND	Tri-State 9-Bit Bus D-Type Latch	24-SSOP	1430.00/2,000		
SN74ABT843NT	296-4104-5-ND	Tri-State 9-Bit Bus D-Type Latch	24-Dip	1.38	1.10	.83
SN74ABT853DW	296-4105-5-ND	8-9-Bit Parity Bus Transceiver	24-SOIC	4.28	3.42	2.66
SN74ABT853NT	296-4106-5-ND	8-9-Bit Parity Bus Transceiver	24-Dip	4.28	3.42	2.66
SN74ABT861NT	296-4109-5-ND	Tri-State 10-Bit Transceiver	24-Dip	2.05	1.64	1.23
SN74ABT863DBR	296-4110-1-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	2.05	1.64	1.23
SN74ABT863DBR	296-4110-2-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	2132.00/2,000		
SN74ABT863DWR	296-4111-1-ND	Tri-State 9-Bit Bus Transceiver	24-SOIC	2.05	1.64	1.23
SN74ABT863DWR	296-4111-2-ND	Tri-State 9-Bit Bus Transceiver	24-SOIC	2132.00/2,000		
SN74ABT2240ADBR	296-3945-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	.88	.66	.50
SN74ABT2240ADBR	296-3945-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	586.00/2,000		
SN74ABT2240ADW	296-3946-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2240ADWR	296-3946-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2240ADWR	296-3946-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	586.00/2,000		
SN74ABT2240ANSR	296-13128-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOP	.88	.66	.50
SN74ABT2240ANSR	296-13128-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOP	586.00/2,000		
SN74ABT2240APWR	296-3947-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	.96	.72	.54
SN74ABT2240APWR	296-3947-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	638.00/2,000		
SN74ABT2241DBR	296-3948-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	.88	.66	.50
SN74ABT2241DBR	296-3948-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	586.00/2,000		
SN74ABT2241DW	296-3949-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2241DWR	296-14660-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2241DWR	296-14660-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	586.00/2,000		
SN74ABT2241N	296-3950-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-Dip	.88	.66	.50
SN74ABT2241PWR	296-3951-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	.96	.72	.54
SN74ABT2241PWR	296-3951-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	638.00/2,000		
SN74ABT2244ADBR	296-1036-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	.88	.66	.50
SN74ABT2244ADBR	296-1036-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	586.00/2,000		
SN74ABT2244ADWR	296-3952-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2244ADWR	296-3952-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	586.00/2,000		
SN74ABT2244AN	296-3953-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-Dip	.88	.66	.50
SN74ABT2244APWR	296-3954-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	.88	.66	.50
SN74ABT2244APWR	296-3954-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	586.00/2,000		
SN74ABT2245DBR	296-3955-1-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-SSOP	.88	.66	.50
SN74ABT2245DBR	296-3955-2-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-SSOP	586.00/2,000		
SN74ABT2245DW	296-3956-5-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2245DWR	296-14661-1-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2245DWR	296-14661-2-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-SOIC	586.00/2,000		
SN74ABT2245N	296-3957-5-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-Dip	.88	.66	.50
SN74ABT2245PWR	296-3958-1-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-TSSOP	.88	.66	.50
SN74ABT2245PWR	296-3958-2-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-TSSOP	586.00/2,000		
SN74ABT2827DWR	296-3974-1-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1.45	1.16	.87
SN74ABT2827DWR	296-3974-2-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1508.00/2,000		
SN74ABT2952ADBR	296-3975-1-ND	Tri-State Octal Bus Transceiver/Register	24-SSOP	4.50	3.60	2.80
SN74ABT2952ADBR	296-3975-2-ND	Tri-State Octal Bus Transceiver/Register	24-SSOP	5100.00/2,000		
SN74ABT2952ADW	296-3976-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	4.50	3.60	2.80
SN74ABT2952ADWR	296-14665-1-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	4.50	3.60	2.80
SN74ABT2952ADWR	296-14665-2-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	5100.00/2,000		
SN74ABT2952ANT	296-3977-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	4.50	3.60	2.80
SN74ABT5400ADWR	296-4018-1-ND	Tri-State 11-Bit Line/Memory Driver	28-SOIC	3.60	2.88	2.24

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ABT5400ADWR	296-4018-2-ND	Tri-State 11-Bit Line/Memory Driver	28-SOIC	2040.00/1,000		
SN74ABT5401DW	296-4019-5-ND	Tri-State 11-Bit Line/Memory Driver	28-SOIC	3.60	2.88	2.24
SN74ABT5402ADWR	296-4020-1-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	3.89	3.12	2.43
SN74ABT5402ADWR	296-4020-2-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	2206.00/1,000		
SN74ABT5403DWR	296-4021-1-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	3.89	3.12	2.43
SN74ABT5403DWR	296-4021-2-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	2206.00/1,000		
SN74ABT8245DW	296-4093-5-ND	Scan Test Device w/Octal Bus Transcvr.	24-SOIC	5.31	4.25	3.31
SN74ABT8245DWR	296-14679-1-ND	Scan Test Device w/Octal Bus Transcvr	24-SOIC	5.31	4.25	3.31
SN74ABT8245DWR	296-14679-2-ND	Scan Test Device w/Octal Bus Transcvr	24-SOIC	6018.00/2,000		
SN74ABT8543DL	296-4107-5-ND	Scan Test Device w/Octal Bus Transcvr	28-SSOP	9.70	7.76	6.55
SN74ABT8543DW	296-4108-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SOIC	9.70	7.76	6.55
SN74ABT8646DL	296-4112-5-ND	Scan Test Device with Octal Bus Transceiver/Register	28-SSOP	9.70	7.76	6.55
SN74ABT8646DW	296-4113-5-ND	Scan Test Device with Octal Bus Transceiver/Register	28-SOIC	9.70	7.76	6.55
SN74ABT8652DL	296-4114-5-ND	Scan Test Device with Octal Bus Transceiver/Register	28-SSOP	9.70	7.76	6.55
SN74ABT8952DL	296-4115-5-ND	Scan Test Device w/Octal Bus Transcvr	28-SSOP	9.70	7.76	6.55
SN74ABT8952DW	296-4116-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SOIC	9.70	7.76	6.55
SN74ABT8996DW	296-4117-5-ND	10-Bit Addressable Scan Port	24-SOIC	8.33	7.50	6.65
SN74ABT8996DWR	296-4117-1-ND	10-Bit Addressable Scan Port	24-SOIC	8.33	7.50	6.65
SN74ABT8996DWR	296-4117-2-ND	10-Bit Addressable Scan Port	24-SOIC	12350.00/2,000		
SN74ABT8996PWR	296-4118-1-ND	10-Bit Addressable Scan Port	24-TSSOP	8.33	7.50	6.65
SN74ABT8996PWR	296-4118-2-ND	10-Bit Addressable Scan Port	24-TSSOP	12350.00/2,000		
SN74ABT16240ADGGR	296-3882-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ABT16240ADGGR	296-3882-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ABT16240ADGVR	296-3883-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74ABT16240ADGVR	296-3883-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74ABT16240ADLR	296-3884-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT16240ADLR	296-3884-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ABT16241ADGGR	296-3885-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ABT16241ADGGR	296-3885-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ABT16241ADGVR	296-3886-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74ABT16241ADGVR	296-3886-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74ABT16241ADL	296-3887-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT16241ADLR	296-14651-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT16241ADLR	296-14651-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ABT16244ADGGR	296-1023-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.88	.73	.59
SN74ABT16244ADGGR	296-1023-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	776.00/2,000		
SN74ABT16244ADGVR	296-3888-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74ABT16244ADGVR	296-3888-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74ABT16244ADL	296-1024-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT16244ADLR	296-1024-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT16244ADLR	296-1024-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ABT16245ADGGR	296-1025-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	.92	.77	.62
SN74ABT16245ADGGR	296-1025-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	820.00/2,000		
SN74ABT16245ADGVR	296-3889-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.20	1.00	.80
SN74ABT16245ADGVR	296-3889-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1064.00/2,000		
SN74ABT16245ADL	296-1026-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ABT16245ADLR	296-1026-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	.98	.82	.65
SN74ABT16245ADLR	296-1026-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	432.00/1,000		
SN74ABT16373ADGGR	296-3899-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.32	1.10	.88
SN74ABT16373ADGGR	296-3899-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1170.00/2,000		
SN74ABT16373ADL	296-1029-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.32	1.10	.88
SN74ABT16373ADLR	296-1029-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.32	1.10	.88
SN74ABT16373ADLR	296-1029-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	585.00/1,000		
SN74ABT16374ADGGR	296-3900-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.32	1.10	.88
SN74ABT16374ADGGR	296-3900-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1170.00/2,000		
SN74ABT16374ADL	296-1030-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.32	1.10	.88
SN74ABT16374ADLR	296-1030-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.32	1.10	.88
SN74ABT16374ADLR	296-1030-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	585.00/1,000		
SN74ABT16470DGGR	296-3901-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	8.00	6.40	5.40
SN74ABT16470DGGR	296-3901-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	10000.00/2,000		
SN74ABT16470DL	296-3902-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	9.80	7.84	6.62
SN74ABT16500BDGGR	296-3903-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2.59	2.07	1.61
SN74ABT16500BDGGR	296-3903-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2932.00/2,000		
SN74ABT16500BDL	296-3904-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2.59	2.07	1.61
SN74ABT16500BDLR	296-14654-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2.59	2.07	1.61
SN74ABT16500BDLR	296-14654-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1466.00/1,000		
SN74ABT16501DGGR	296-3905-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2.59	2.07	1.61
SN74ABT16501DGGR	296-3905-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2932.00/2,000		
SN74ABT16501DLR	296-1031-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2.59	2.07	1.61
SN74ABT16501DLR	296-1031-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1466.00/1,000		
SN74ABT16540ADGGR	296-3906-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74ABT16540ADGGR	296-3906-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1560.00/2,000		
SN74ABT16540ADGVR	296-3907-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74ABT16540ADGVR	296-3907-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1560.00/2,000		
SN74ABT16540ADLR	296-14655-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74ABT16540ADLR	296-14655-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	780.00/1,000		
SN74ABT16541ADGGR	296-3909-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.35	1.13	.90
SN74ABT16541ADGGR	296-3909-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1198.00/2,000		
SN74ABT16541ADGVR	296-3910-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.35	1.13	.90
SN74ABT16541ADGVR	296-3910-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1198.00/2,000		
SN74ABT16541ADL	296-1032-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.35	1.13	.90
SN74ABT16541ADLR	296-1032-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.35	1.13	.90
SN74ABT16541ADLR	296-1032-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	599.00/1,000		
SN74ABT16543DGGR	296-3911-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1.50	1.20	.90
SN74ABT16543DGGR	296-3911-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1560.00/2,000		
SN74ABT16543DLR	296-1033-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.50	1.20	.90
SN74ABT16543DLR	296-1033-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	780.00/1,000		
SN74ABT16600DLR	296-3912-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	7.40	5.92	5.00
SN74ABT16600DLR	296-3912-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4625.00/1,000		
SN74ABT16601DGGR	296-1034-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	5.43	4.35	3.67
SN74ABT16601DGGR	296-1034-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	6792.00/2,000		
SN74ABT16601DL	296-3913-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	5.43	4.35	3.67
SN74ABT16601DLR	296-14656-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	5.43	4.35	3.67
SN74ABT16601DLR	296-14656-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3396.00/1,000		
SN74ABT16623DGGR	296-3914-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	4.39	3.51	2.73
SN74ABT16623DGGR	296-3914-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	4972.00/2,000		
SN74ABT16623DL	296-3915-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	4.39	3.51	2.73
SN74ABT16623DLR	296-3915-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	4.39	3.51	2.73
SN74ABT16623DLR	296-3915-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2486.00/1,000		
SN74ABT16640DGGR	296-3916-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	5.61	4.49	3.79
SN74ABT16640DGGR	296-3916-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	7012.00/2,000		
SN74ABT16640DLR	296-3917-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	5.66	4.53	3.82

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ABT16640DLR	296-3917-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	3536.00/1,000		
SN74ABT16646DGGR	296-3918-1-ND	Tri-State 16-Bit Bus Transcvr/Register	56-TSSOP	2.13	1.70	1.28
SN74ABT16646DGGR	296-3918-2-ND	Tri-State 16-Bit Bus Transcvr/Register	56-TSSOP	2210.00/2,000		
SN74ABT16646DLR	296-1035-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.13	1.70	1.28
SN74ABT16646DLR	296-1035-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1105.00/1,000		
SN74ABT16652DL	296-3919-5-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.93	2.34	1.82
SN74ABT16652DLR	296-14657-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.93	2.34	1.82
SN74ABT16652DLR	296-14657-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1658.00/1,000		
SN74ABT16657DGGR	296-3920-1-ND	Tri-State 16-Bit Transceiver with Parity Gen/Checker	56-TSSOP	3.38	2.70	2.10
SN74ABT16657DGGR	296-3920-2-ND	Tri-State 16-Bit Transceiver with Parity Gen/Checker	56-TSSOP	3826.00/2,000		
SN74ABT16657DLR	296-3921-1-ND	Tri-State 16-Bit Transceiver with Parity Gen/Checker	56-SSOP	3.38	2.70	2.10
SN74ABT16657DLR	296-3921-2-ND	Tri-State 16-Bit Transceiver with Parity Gen/Checker	56-SSOP	1913.00/1,000		
SN74ABT16821DGGR	296-3922-1-ND	Tri-State 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3.38	2.70	2.10
SN74ABT16821DGGR	296-3922-2-ND	Tri-State 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3826.00/2,000		
SN74ABT16821DLR	296-3923-1-ND	Tri-State 20-Bit Bus-Interface Flip-Flop	56-SSOP	3.38	2.70	2.10
SN74ABT16821DLR	296-3923-2-ND	Tri-State 20-Bit Bus-Interface Flip-Flop	56-SSOP	1913.00/1,000		
SN74ABT16823DGGR	296-3924-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-TSSOP	2.36	1.89	1.47
SN74ABT16823DGGR	296-3924-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-TSSOP	2678.00/2,000		
SN74ABT16823DGVR	296-23228-1-ND	Tri-St. 18-Bit Bus-Interface F/F ***NEW!***	56-TVSOP	2.36	1.89	1.47
SN74ABT16823DGVR	296-23228-2-ND	Tri-St. 18-Bit Bus-Interface F/F ***NEW!***	56-TVSOP	2678.00/2,000		
SN74ABT16823DLR	296-3925-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	2.36	1.89	1.47
SN74ABT16823DLR	296-3925-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	1339.00/1,000		
SN74ABT16825DL	296-3926-5-ND	Tri-State 18-Bit Buffer/Driver	56-SSOP	2.36	1.89	1.47
SN74ABT16825DLR	296-14658-1-ND	Tri-State 18-Bit Buffer/Driver	56-SSOP	2.36	1.89	1.47
SN74ABT16825DLR	296-14658-2-ND	Tri-State 18-Bit Buffer/Driver	56-SSOP	1339.00/1,000		
SN74ABT16827DLR	296-3928-1-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	2.36	1.89	1.47
SN74ABT16827DLR	296-3928-2-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	1339.00/1,000		
SN74ABT16833DLR	296-3929-1-ND	Dual 8-9 Bit Parity Bus Transceiver	56-SSOP	2.36	1.89	1.47
SN74ABT16833DLR	296-3929-2-ND	Dual 8-9 Bit Parity Bus Transceiver	56-SSOP	1339.00/1,000		
SN74ABT16841DL	296-3930-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	2.81	2.25	1.75
SN74ABT16841DLR	296-14659-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	2.81	2.25	1.75
SN74ABT16841DLR	296-14659-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	1594.00/1,000		
SN74ABT16843DGGR	296-3931-1-ND	Tri-State 18-Bit Bus-Interface D-Type Latch	56-TSSOP	2.70	2.16	1.68
SN74ABT16843DGGR	296-3931-2-ND	Tri-State 18-Bit Bus-Interface D-Type Latch	56-TSSOP	3060.00/2,000		
SN74ABT16843DLR	296-3932-1-ND	Tri-State 18-Bit Bus-Interface D-Type Latch	56-SSOP	2.70	2.16	1.68
SN74ABT16843DLR	296-3932-2-ND	Tri-State 18-Bit Bus-Interface D-Type Latch	56-SSOP	1530.00/1,000		
SN74ABT16853DLR	296-3933-1-ND	Dual 8-9 Bit Parity Transceiver	56-SSOP	8.00	6.40	5.40
SN74ABT16853DLR	296-3933-2-ND	Dual 8-9 Bit Parity Transceiver	56-SSOP	5000.00/1,000		
SN74ABT16863DLR	296-3934-1-ND	Tri-State 18-Bit Bus Transceiver	56-SSOP	6.20	4.96	4.19
SN74ABT16863DLR	296-3934-2-ND	Tri-State 18-Bit Bus Transceiver	56-SSOP	3875.00/1,000		
SN74ABT16952DGGR	296-3935-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	3.26	2.61	2.03
SN74ABT16952DGGR	296-3935-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	3698.00/2,000		
SN74ABT16952DLR	296-3936-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	3.26	2.61	2.03
SN74ABT16952DLR	296-3936-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1849.00/1,000		
SN74ABT18245ADGGR	296-3937-1-ND	Scan Test Device with 18-Bit Bus Transceiver	56-TSSOP	7.80	6.24	5.27
SN74ABT18245ADGGR	296-3937-2-ND	Scan Test Device with 18-Bit Bus Transceiver	56-TSSOP	9750.00/2,000		
SN74ABT18245ADL	296-3938-5-ND	Scan Test Device with 18-Bit Bus Transceiver	56-SSOP	7.80	6.24	5.27
SN74ABT18245ADLR	296-3938-1-ND	Scan Test Device with 18-Bit Bus Transceiver	56-SSOP	7.80	6.24	5.27
SN74ABT18245ADLR	296-3938-2-ND	Scan Test Device with 18-Bit Bus Transceiver	56-SSOP	4875.00/1,000		
SN74ABT18502PM	296-3939-ND	Scan Test Device with 18-Bit Registered Bus Transceiver	64-LQFP	14.99	13.50	11.97
SN74ABT18504PM	296-3940-ND	Scan Test Device with 20-Bit Universal Bus Transceiver	64-LQFP	13.33	12.00	10.64
SN74ABT18640DGGR	296-3941-1-ND	Scan Test Device with 18-Bit Inv. Bus Transceiver	56-TSSOP	10.16	9.15	8.12
SN74ABT18640DGGR	296-3941-2-ND	Scan Test Device with 18-Bit Inv. Bus Transceiver	56-TSSOP	15068.00/2,000		
SN74ABT18640DL	296-3942-5-ND	Scan Test Device with 18-Bit Inv. Bus Transceiver	56-SSOP	10.16	9.15	8.12
SN74ABT18646PM	296-3943-ND	Scan Test Device with 18-Bit Registered Transceiver	64-LQFP	15.24	13.73	12.17
SN74ABT18652PM	296-3944-ND	Scan Test Device with 18-Bit Registered Transceiver	64-LQFP	15.24	13.73	12.17
SN74ABT162244DGGR	296-9752-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ABT162244DGGR	296-9752-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ABT162244DGVR	296-3881-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74ABT162244DGVR	296-3881-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74ABT162244DL	296-1021-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT162244DLR	296-1021-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT162244DLR	296-1021-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ABT162245DGGR	296-9753-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.20	1.00	.80
SN74ABT162245DGGR	296-9753-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1064.00/2,000		
SN74ABT162245DL	296-9754-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ABT162245DLR	296-1022-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ABT162245DLR	296-1022-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	532.00/1,000		
SN74ABT162500DL	296-3890-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3.71	2.97	2.31
SN74ABT162500DLR	296-14652-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3.71	2.97	2.31
SN74ABT162500DLR	296-14652-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2104.00/1,000		
SN74ABT162501DGGR	296-3891-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	3.71	2.97	2.31
SN74ABT162501DGGR	296-3891-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	4208.00/2,000		
SN74ABT162501DLR	296-1027-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3.71	2.97	2.31
SN74ABT162501DLR	296-1027-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2104.00/1,000		
SN74ABT162601DGG	296-22717-5-ND	Tri-St. 18-Bit Univ. Bus Transceiver ***NEW!***	56-TSSOP	4.82	3.86	3.00
SN74ABT162601DGGR	296-3892-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	4.82	3.86	3.00
SN74ABT162601DGGR	296-3892-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	5458.00/2,000		
SN74ABT162601DLR	296-1028-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4.82	3.86	3.00
SN74ABT162601DLR	296-1028-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2729.00/1,000		
SN74ABT162823ADGGR	296-3893-1-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-TSSOP	2.93	2.34	1.82
SN74ABT162823ADGGR	296-3893-2-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-TSSOP	3316.00/2,000		
SN74ABT162823ADLR	296-3894-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	2.93	2.34	1.82
SN74ABT162823ADLR	296-3894-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	1658.00/1,000		
SN74ABT162827ADGGR	296-3895-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	4.73	3.78	2.94
SN74ABT162827ADGGR	296-3895-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	5356.00/2,000		
SN74ABT162827ADL	296-3896-5-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	3.60	2.88	2.24
SN74ABT162841DGGR	296-3897-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	2.70	2.16	1.68
SN74ABT162841DGGR	296-3897-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	3060.00/2,000		
SN74ABT162841DL	296-3898-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	2.70	2.16	1.68

ABTE Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74ABTE16245DGGR	296-9755-1-ND	Tri-State 16-Bit Incident-Wave Bus Transceiver	48-TSSOP	8.10	6.48	5.47
SN74ABTE16245DGGR	296-9755-2-ND	Tri-State 16-Bit Incident-Wave Bus Transceiver	48-TSSOP	10126.00/2,000		
SN74ABTE16245DL	296-9756-5-ND	Tri-State 16-Bit Incident-Wave Bus Transceiver	48-SSOP	8.10	6.48	5.47
SN74ABTE16246DGGR	296-4119-1-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-TSSOP	9.50	7.60	6.42
SN74ABTE16246DGGR	296-4119-2-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-TSSOP	11876.00/2,000		
SN74ABTE16246DL	296-4120-5-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-SSOP	9.50	7.60	6.42
SN74ABTE16246DLR	296-4120-1-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-SSOP	9.50	7.60	6.42
SN74ABTE16246DLR	296-4120-2-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-SSOP	5938.00/1,000		

ABTH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74ABTH245DBR	296-4138-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.84	.63	.48
SN74ABTH245DBR	296-4138-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	558.00/2,000		
SN74ABTH245DGVR	296-4139-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.92	.69	.52
SN74ABTH245DGVR	296-4139-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	612.00/2,000		
SN74ABTH245DWR	296-4140-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.84	.63	.48
SN74ABTH245DWR	296-4140-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	558.00/2,000		
SN74ABTH245N	296-4141-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.84	.63	.48
SN74ABTH245PWR	296-4142-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.84	.63	.48
SN74ABTH245PWR	296-4142-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	558.00/2,000		
SN74ABTH25245DW	296-4143-5-ND	Tri-State 25-Ohm Octal Bus Transceiver	24-SOIC	4.93	3.95	3.07
SN74ABTH25245NT	296-4144-5-ND	Tri-State 25-Ohm Octal Bus Transceiver	24-Dip	4.93	3.95	3.07
SN74ABTH32245PZ	296-4145-ND	Tri-State 36-Bit Bus Transceiver	100-LQFP	15.00	14.00	13.00
SN74ABTH32316PN	296-4146-ND	Tri-Port 16-Bit Univ. Bus Exchanger	80-TQFP	15.54	14.51	13.48
SN74ABTH32543PZ	296-4147-ND	Tri-State 36-Bit Registered Bus Transceiver	100-LQFP	15.75	14.70	13.65
SN74ABTH16244DGGR	296-4122-1-ND	Tri-State 16-Bit Bus Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ABTH16244DGGR	296-4122-2-ND	Tri-State 16-Bit Bus Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ABTH16244DL	296-4123-5-ND	Tri-State 16-Bit Bus Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABTH16244DLR	296-4123-1-ND	Tri-State 16-Bit Bus Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABTH16244DLR	296-4123-2-ND	Tri-State 16-Bit Bus Buffer/Driver	48-SSOP	532.00/1,000		
SN74ABTH16245DGGR	296-4124-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.20	1.00	.80
SN74ABTH16245DGGR	296-4124-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1064.00/2,000		
SN74ABTH16245DGVR	296-4125-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.20	1.00	.80
SN74ABTH16245DGVR	296-4125-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1064.00/2,000		
SN74ABTH16245DL	296-4126-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ABTH16260DL	296-1446-5-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	7.70	6.16	5.20
SN74ABTH16260DLR	296-1446-1-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	7.70	6.16	5.20
SN74ABTH16260DLR	296-1446-2-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	4813.00/1,000		
SN74ABTH16460DGGR	296-4127-1-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-TSSOP	7.70	6.16	5.20
SN74ABTH16460DGGR	296-4127-2-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-TSSOP	9626.00/2,000		
SN74ABTH16460DL	296-4128-5-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	7.70	6.16	5.20
SN74ABTH16823DGGR	296-4129-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-TSSOP	5.20	4.16	3.51
SN74ABTH16823DGGR	296-4129-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-TSSOP	6500.00/2,000		
SN74ABTH16823DLR	296-4130-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	5.20	4.16	3.51
SN74ABTH16823DLR	296-4130-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	3250.00/1,000		
SN74ABTH32318PN	296-1447-5-ND	18-Bit Tri-Port Univ. Bus Exchange	80-TQFP	14.58	13.13	11.64
SN74ABTH32501PZ	296-1448-5-ND	36-Bit Bus Transceiver	100-LQFP	16.50	15.40	14.30
SN74ABTH162245DGGR	296-1050-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.29	1.08	.86
SN74ABTH162245DGGR	296-1050-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1144.00/2,000		
SN74ABTH162245DGVR	296-4121-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.29	1.08	.86
SN74ABTH162245DGVR	296-4121-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1144.00/2,000		
SN74ABTH162245DL	296-1445-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.29	1.08	.86
SN74ABTH162260DLR	296-1051-1-ND	12-24-Bit Mux D-Type Latch	56-SSOP	5.56	4.45	3.46
SN74ABTH162260DLR	296-1051-2-ND	Tri-State 12-24 Bit Mux. D-Type Latch	56-SSOP	3149.00/1,000		
SN74ABTH182502APM	296-4131-ND	Scan Test Device with 18-Bit Universal Bus Transceiver	64-LQFP	15.44	13.90	12.33
SN74ABTH182504APM	296-4132-ND	Scan Test Device with 20-Bit Universal Bus Transceiver	64-LQFP	15.44	13.90	12.33
SN74ABTH182646APM	296-4133-ND	Scan Test Device with 18-Bit Transceiver/Register	64-LQFP	15.09	14.09	13.08
SN74ABTH18502APM	296-4134-ND	Scan Test Device with 18-Bit Universal Bus Transceiver	64-LQFP	15.44	13.90	12.33
SN74ABTH18502APMR	296-14683-1-ND	Scan Test Device with 18-Bit Universal Bus Transceiver	64-LQFP	15.44	13.90	12.33
SN74ABTH18502APMR	296-14683-2-ND	Scan Test Device with 18-Bit Universal Bus Transceiver	64-LQFP	11444.00/1,000		
SN74ABTH18504APM	296-4135-ND	Scan Test Device with 20-Bit Universal Bus Transceiver	64-LQFP	15.44	13.90	12.33
SN74ABTH18646APM	296-4136-ND	Scan Test Device with 18-Bit Transceiver/Register	64-LQFP	13.74	12.38	10.98
SN74ABTH18652APM	296-4137-ND	Scan Test Device with 18-Bit Transceiver/Register	64-LQFP	13.74	12.38	10.98
SN74ABTH25245DWR	296-14684-1-ND	Tri-St. 25-Ohm Octal Bus Transceiver	24-SOIC	4.93	3.95	3.07
SN74ABTH25245DWR	296-14684-2-ND	Tri-St. 25-Ohm Octal Bus Transceiver	24-SOIC	5584.00/2,000		

ABTR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74ABTR2245DBR	296-4148-1-ND	Tri-State Octal Transceiver/Line/ Memory Driver	20-SSOP	.84	.63	.48
SN74ABTR2245DBR	296-4148-2-ND	Tri-State Octal Transceiver/Line/ Memory Driver	20-SSOP	558.00/2,000		
SN74ABTR2245DW	296-4149-5-ND	Tri-State Octal Transceiver/Line/ Memory Driver	20-SOIC	.84	.63	.48

(Continued)

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T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
SN74ABTR2245PWR	296-4150-1-ND	Tri-State Octal Transceiver/Line/ Memory Driver	20-TSSOP	.84	.63	.48
SN74ABTR2245PWR	296-4150-2-ND	Tri-State Octal Transceiver/Line/ Memory Driver	20-TSSOP	558.00/2,000		
AC Family						
74AC11004DW	296-4152-5-ND	Hex Inverter	20-SOIC	1.50	1.20	.90
74AC11004DWR	296-4152-1-ND	Hex Inverter	20-SOIC	1.50	1.20	.90
74AC11004DWR	296-4152-2-ND	Hex Inverter	20-SOIC	1560.00/2,000		
74AC11004N	296-4153-5-ND	Hex Inverter	20-Dip	1.50	1.20	.90
74AC11008N	296-4154-5-ND	Quad 2-Input Positive AND Gate	16-Dip	1.50	1.20	.90
74AC11008PWR	296-4155-1-ND	Quad 2-Input Positive AND Gate	16-TSSOP	1.50	1.20	.90
74AC11008PWR	296-4155-2-ND	Quad 2-Input Positive AND Gate	16-TSSOP	1560.00/2,000		
74AC11032D	296-4156-5-ND	Quad 2-Input OR Gate	16-SOIC	1.50	1.20	.90
74AC11032DBR	296-4157-1-ND	Quad 2-Input OR Gate	16-SSOP	1.50	1.20	.90
74AC11032DBR	296-4157-2-ND	Quad 2-Input OR Gate	16-SSOP	1560.00/2,000		
74AC11032N	296-4158-5-ND	Quad 2-Input OR Gate	16-Dip	1.50	1.20	.90
74AC11074D	296-4159-5-ND	Dual D-Type Flip-Flop	14-SOIC	1.50	1.20	.90
74AC11074PWR	296-4160-1-ND	Dual D-Type Flip-Flop	14-TSSOP	1.50	1.20	.90
74AC11074PWR	296-4160-2-ND	Dual D-Type Flip-Flop	14-TSSOP	1560.00/2,000		
74AC11086D	296-4161-5-ND	Quad 2-Input Exclusive OR Gate	16-SOIC	1.50	1.20	.90
74AC11138N	296-4162-5-ND	3-8 Decoder/Demultiplexer	16-Dip	1.75	1.40	1.05
74AC11138PWR	296-4163-1-ND	3-8 Decoder/Demultiplexer	16-TSSOP	1.75	1.40	1.05
74AC11138PWR	296-4163-2-ND	3-8 Decoder/Demultiplexer	16-TSSOP	1820.00/2,000		
74AC11240DBR	296-4167-1-ND	Octal Buffer/Line Driver	24-SSOP	2.34	1.88	1.46
74AC11240DBR	296-4167-2-ND	Octal Buffer/Line Driver	24-SSOP	2652.00/2,000		
74AC11244DBR	296-4168-1-ND	Octal Buffer/Line Driver	24-SSOP	2.34	1.88	1.46
74AC11244DBR	296-4168-2-ND	Octal Buffer/Line Driver	24-SSOP	2652.00/2,000		
74AC11244DW	296-4169-5-ND	Octal Buffer/Line Driver	24-SOIC	2.34	1.88	1.46
74AC11244PWR	296-1000-1-ND	Octal Buffer/Line Driver	24-TSSOP	2.34	1.88	1.46
74AC11244PWR	296-1000-2-ND	Octal Buffer/Line Driver	24-TSSOP	2652.00/2,000		
74AC11245DW	296-4170-5-ND	Octal Bus Transceiver	24-SOIC	2.34	1.88	1.46
74AC16244DGGR	296-15845-1-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.38	1.10	.83
74AC16244DGGR	296-15845-2-ND	16-Bit Buffer/Line Driver	48-TSSOP	1430.00/2,000		
74AC16244DL	296-4173-5-ND	16-Bit Buffer/Line Driver	48-SSOP	1.38	1.10	.83
74AC16244DLR	296-14452-1-ND	16-Bit Buffer/Line Driver	48-SSOP	1.38	1.10	.83
74AC16244DLR	296-14452-2-ND	16-Bit Buffer/Line Driver	48-SSOP	715.00/1,000		
74AC16245DL	296-4174-5-ND	16-Bit Bus Transceiver	48-SSOP	1.50	1.20	.90
74AC16374DLR	296-14453-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.38	1.10	.83
74AC16374DLR	296-14453-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	715.00/1,000		
CD74AC00E	296-4214-5-ND	Quad 2-Input NAND Gate	14-Dip	.60	.45	.34
CD74AC00M	296-4215-5-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.42	.32
CD74AC00M96	296-4215-1-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.42	.32
CD74AC00M96	296-4215-2-ND	Quad 2-Input NAND Gate	14-SOIC	455.00/2,500		
CD74AC02M96	296-4216-1-ND	Quad 2-Input NOR Gate	14-SOIC	.56	.42	.32
CD74AC02M96	296-4216-2-ND	Quad 2-Input NOR Gate	14-SOIC	455.00/2,500		
CD74AC04E	296-4217-5-ND	Hex Inverter	14-Dip	.60	.45	.34
CD74AC04M96	296-4218-1-ND	Hex Inverter	14-SOIC	.56	.42	.32
CD74AC04M96	296-4218-2-ND	Hex Inverter	14-SOIC	455.00/2,500		
CD74AC05E	296-4219-5-ND	Hex Inverter	14-Dip	.60	.45	.34
CD74AC05M	296-4220-5-ND	Hex Inverter	14-SOIC	.56	.42	.32
CD74AC08M	296-1377-5-ND	Quad 2-Input AND Gate	14-SOIC	.56	.42	.32
CD74AC08M96	296-14477-1-ND	Quad 2-Input AND Gate	14-SOIC	.56	.42	.32
CD74AC08M96	296-14477-2-ND	Quad 2-Input AND Gate	14-SOIC	455.00/2,500		
CD74AC10M96	296-4222-1-ND	Triple 3-Input NAND Gate	14-SOIC	.56	.42	.32
CD74AC10M96	296-4222-2-ND	Triple 3-Input NAND Gate	14-SOIC	455.00/2,500		
CD74AC14M	296-1981-5-ND	Hex Inverter Schmitt Trigger	14-SOIC	.56	.42	.32
CD74AC14M96	296-1981-1-ND	Hex Inverter Schmitt Trigger	14-SOIC	.58	.47	.35
CD74AC14M96	296-1981-2-ND	Hex Inverter Schmitt Trigger	14-SOIC	392.50/2,500		
CD74AC20E	296-4237-5-ND	Dual 4-Input NAND Gate	14-Dip	.60	.45	.34
CD74AC20M	296-4238-5-ND	Dual 4-Input NAND Gate	14-SOIC	.56	.42	.32
CD74AC32M96	296-1985-1-ND	Quad 2-Input OR Gate	14-SOIC	.56	.42	.32
CD74AC32M96	296-1985-2-ND	Quad 2-Input OR Gate	14-SOIC	455.00/2,500		
CD74AC74M	296-4249-5-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.56	.42	.32
CD74AC74M96	296-14484-1-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.56	.42	.32
CD74AC74M96	296-14484-2-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	455.00/2,500		
CD74AC109M96	296-4221-1-ND	Dual JK Flip-Flop with Set/Reset	16-SOIC	.56	.42	.32
CD74AC109M96	296-4221-2-ND	Dual JK Flip-Flop with Set/Reset	16-SOIC	455.00/2,500		
CD74AC112E	296-4223-5-ND	Dual JK Flip-Flop with Set/Reset	16-Dip	.68	.51	.39
CD74AC112M	296-4224-5-ND	Dual JK Flip-Flop with Set/Reset	16-SOIC	.56	.42	.32
CD74AC138E	296-4225-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.68	.51	.39
CD74AC138M	296-4226-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.56	.42	.32
CD74AC139M96	296-4227-1-ND	Dual 2-4 Line Decoder/Demultiplexer	16-SOIC	.60	.45	.34
CD74AC139M96	296-4227-2-ND	Dual 2-4 Line Decoder/Demultiplexer	16-SOIC	487.50/2,500		
CD74AC151M96	296-4228-1-ND	8-1 Line Data Selector/Mux	16-SOIC	.76	.57	.43
CD74AC151M96	296-4228-2-ND	8-1 LIne Data Selector/Mux	16-SOIC	617.50/2,500		
CD74AC151MDREP	296-22097-1-ND	8-1 Line Data Selector/Mux ***NEW!***	16-SOIC	2.25	1.80	1.40
CD74AC151MDREP	296-22097-2-ND	8-1 Line Data Selector/Mux ***NEW!***	16-SOIC	3150.00/2,500		
CD74AC153M96	296-4229-1-ND	Dual 4-Input Multiplexer	16-SOIC	.76	.57	.43
CD74AC153M96	296-4229-2-ND	Dual 4-Input Multiplexer	16-SOIC	617.50/2,500		
CD74AC157E	296-4230-5-ND	Quad 2-Input Multiplexer	16-Dip	.72	.54	.41
CD74AC157M	296-4231-5-ND	Quad 2-Input Multiplexer	16-SOIC	.72	.54	.41
CD74AC161M	296-4232-5-ND	4-Bit Synchronous Binary Counter	16-SOIC	.72	.54	.41
CD74AC163E	296-4233-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.68	.51	.39
CD74AC163M96	296-4234-1-ND	4-Bit Synchronous Binary Counter	16-SOIC	.64	.48	.36
CD74AC163M96	296-4234-2-ND	4-Bit Synchronous Binary Counter	16-SOIC	520.00/2,500		
CD74AC164E	296-4235-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.68	.51	.39
CD74AC174E	296-4236-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.68	.51	.39
CD74AC238M96	296-4239-1-ND	3-8 Line Decoder/Demux	16-SOIC	1.25	1.00	.75
CD74AC238M96	296-4239-2-ND	3-8 Line Decoder/Demux	16-SOIC	1600.00/2,500		
CD74AC240M	296-4240-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74AC244M96	296-14479-1-ND	Tri-State Non-Inverting Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74AC244M96	296-14479-2-ND	Tri-State Non-Inverting Octal Buffer/Line Driver	20-SOIC	532.00/2,000		
CD74AC245M96	296-14480-1-ND	Tri-State Non-Inverting Octal Bus Transceiver	20-SOIC	.92	.69	.52
CD74AC245M96	296-14480-2-ND	Tri-State Non-Inverting Octal Bus Transceiver	20-SOIC	612.00/2,000		
CD74AC253M	296-4242-5-ND	Tri-State Dual 4-Input Mux	16-SOIC	.92	.69	.52
CD74AC257M	296-4243-5-ND	Tri-State Quad 2-Input Mux	16-SOIC	.78	.65	.52
CD74AC273E	296-1378-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.75	.63	.50
CD74AC273M96	296-14481-1-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.75	.63	.50
CD74AC273M96	296-14481-2-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	666.00/2,000		
CD74AC280E	296-4245-5-ND	9-Bit Odd/Even Parity-Generator/Checker	14-Dip	.96	.72	.54
CD74AC280M96	296-4246-1-ND	9-Bit Odd/Even Parity-Generator/Checker	14-SOIC	.88	.66	.50
CD74AC280M96	296-4246-2-ND	9-Bit Odd/Even Parity-Generator/Checker	14-SOIC	715.00/2,500		
CD74AC373M96	296-14482-1-ND	Tri-State Octal Transparent Latch	20-SOIC	.92	.69	.52
CD74AC373M96	296-14482-2-ND	Tri-State Octal Transparent Latch	20-SOIC	612.00/2,000		
CD74AC374M	296-9411-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.92	.69	.52
CD74AC534M96	296-4247-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.92	.69	.52
CD74AC534M96	296-4247-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	612.00/2,000		
CD74AC541E	296-4248-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.92	.69	.52
CD74AC541M96	296-16677-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.70	.53	.40
CD74AC541M96	296-16677-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	468.00/2,000		
CD74AC573E	296-1379-5-ND	Octal Transparent Latch	20-Dip	.92	.69	.52
CD74AC573M96	296-14483-1-ND	Octal Transparent Latch	20-SOIC	.92	.69	.52
CD74AC573M96	296-14483-2-ND	Octal Transparent Latch	20-SOIC	612.00/2,000		
SN74AC00D	296-1052-5-ND	Quad 2-Input NAND Gate	14-SOIC	.47	.38	.26
SN74AC00DR	296-1052-1-ND	Quad 2-Input NAND Gate	14-SOIC	.47	.38	.26
SN74AC00DR	296-1052-2-ND	Quad 2-Input NAND Gate	14-SOIC	305.00/2,500		
SN74AC00N	296-4287-5-ND	Quad 2-Input NAND Gate	14-Dip	.50	.40	.30
SN74AC00PWR	296-4288-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.45	.36	.27
SN74AC00PWR	296-4288-2-ND	Quad 2-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74AC04D	296-1053-5-ND	Hex Inverter	14-SOIC	.45	.36	.27
SN74AC04DR	296-1053-1-ND	Hex Inverter	14-SOIC	.47	.38	.26
SN74AC04DR	296-1053-2-ND	Hex Inverter	14-SOIC	305.00/2,500		
SN74AC04DBR	296-4289-1-ND	Hex Inverter	14-SSOP	.45	.36	.27
SN74AC04DBR	296-4289-2-ND	Hex Inverter	14-SSOP	252.00/2,000		
SN74AC04MDREP	296-18122-1-ND	Hex Inverter	14-SOIC	1.25	1.00	.75
SN74AC04MDREP	296-18122-2-ND	Hex Inverter	14-SOIC	1600.00/2,500		
SN74AC04N	296-4290-5-ND	Hex Inverter	14-Dip	.50	.40	.30
SN74AC04PWR	296-1054-1-ND	Hex Inverter	14-TSSOP	.43	.34	.26
SN74AC04PWR	296-1054-2-ND	Hex Inverter	14-TSSOP	238.00/2,000		
SN74AC08DBR	296-4291-1-ND	Quad 2-Input AND Gate	14-SSOP	.45	.36	.27
SN74AC08DBR	296-4291-2-ND	Quad 2-Input AND Gate	14-SSOP	252.00/2,000		
SN74AC08DR	296-1055-1-ND	Quad 2-Input AND Gate	14-SOIC	.50	.41	.28
SN74AC08DR	296-1055-2-ND	Quad 2-Input AND Gate	14-SOIC	327.50/2,500		
SN74AC08MDREP	296-22248-1-ND	Quad 2-Input AND Gate ***NEW!***	14-SOIC	1.44	1.20	.96
SN74AC08MDREP	296-22248-2-ND	Quad 2-Input AND Gate ***NEW!***	14-SOIC	1560.00/2,500		
SN74AC08PWR	296-4292-1-ND	Quad 2-Input AND Gate	14-TSSOP	.43	.34	.26
SN74AC08PWR	296-4292-2-ND	Quad 2-Input AND Gate	14-TSSOP	238.00/2,000		
SN74AC10DBR	296-4293-1-ND	Triple 3-Input NAND Gate	14-SSOP	.50	.40	.30
SN74AC10DBR	296-4293-2-ND	Triple 3-Input NAND Gate	14-SSOP	280.00/2,000		
SN74AC10DR	296-4294-1-ND	Triple 3-Input NAND Gate	14-SOIC	.50	.40	.30
SN74AC10DR	296-4294-2-ND	Triple 3-Input NAND Gate	14-SOIC	337.50/2,500		
SN74AC10PWR	296-4295-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.50	.40	.30
SN74AC10PWR	296-4295-2-ND	Triple 3-Input NAND Gate	14-TSSOP	280.00/2,000		
SN74AC11DBR	296-4296-1-ND	Triple 3-Input AND Gate	14-SSOP	.50	.40	.30
SN74AC11DBR	296-4296-2-ND	Triple 3-Input AND Gate	14-SSOP	280.00/2,000		
SN74AC11D	296-4297-5-ND	Triple 3-Input AND Gate	14-SOIC	.50	.40	.30
SN74AC11DR	296-4297-1-ND	Triple 3-Input AND Gate	14-SOIC	.50	.40	.30
SN74AC11DR	296-4297-2-ND	Triple 3-Input AND Gate	14-SOIC	337.50/2,500		
SN74AC11IPWREP	296-22249-1-ND	Triple 3-Input AND Gate ***NEW!***	14-TSSOP	.88	.66	.50
SN74AC11IPWREP	296-22249-2-ND	Triple 3-Input AND Gate ***NEW!***	14-TSSOP	586.00/2,000		
SN74AC11PWR	296-4298-1-ND	Triple 3-Input AND Gate	14-TSSOP	.50	.40	.30
SN74AC11PWR	296-4298-2-ND	Triple 3-Input AND Gate	14-TSSOP	280.00/2,000		
SN74AC14DBR	296-4299-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.43	.34	.26
SN74AC14DBR	296-4299-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	238.00/2,000		
SN74AC14D	296-4300-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.50	.41	.28
SN74AC14DR	296-4300-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.50	.41	.28
SN74AC14DR	296-4300-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	327.50/2,500		
SN74AC14N	296-4301-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.55	.44	.33
SN74AC14PWR	296-4302-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.47	.38	.26
SN74AC14PWR	296-4302-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	260.00/2,000		
SN74AC32D	296-1059-5-ND	Quad 2-Input OR Gate	14-SOIC	.47	.38	.26
SN74AC32DR	296-1059-1-ND	Quad 2-Input OR Gate	14-SOIC	.47	.38	.26
SN74AC32DR	296-1059-2-ND	Quad 2-Input OR Gate	14-SOIC	305.00/2,500		
SN74AC32DBR	296-4317-1-ND	Quad 2-Input OR Gate	14-SSOP	.45	.36	.27
SN74AC32DBR	296-4317-2-ND	Quad 2-Input OR Gate	14-SSOP	252.00/2,000		
SN74AC32MDREP	296-22252-1-ND	Quad 2-Input OR Gate ***NEW!***	14-SOIC	1.25	1.00	.75
SN74AC32MDREP	296-22252-2-ND	Quad 2-Input OR Gate ***NEW!***	14-SOIC	1600.00/2,500		
SN74AC32N	296-4318-5-ND	Quad 2-Input OR Gate	14-Dip	.50	.40	.30
SN74AC32PWR	296-4319-1-ND	Quad 2-Input OR Gate	14-TSSOP	.45	.36	.27
SN74AC32PWR	296-4319-2-ND	Quad 2-Input OR Gate	14-TSSOP	252.00/2,000		
SN74AC74D	296-1063-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.50	.40	.30
SN74AC74DR	296-1063-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.47	.38	.26
SN74AC74DR	296-1063-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	305.00/2,500		
SN74AC74DBR	296-4341-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	.50	.40	.30
SN74AC74DBR	296-4341-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	280.00/2,000		
SN74AC74MDREP	296-18123-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset ***NEW!***	14-SOIC	1.40	1.12	.84
SN74AC74MDREP	296-18123-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset ***NEW!***	14-SOIC	1792.50/2,500		
SN74AC74N	296-4342-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-Dip	.50	.40	.30
SN74AC74NSR	296-13129-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	.50	.40	.30
SN74AC74NSR	296-13129-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	280.00/2,000		
SN74AC74PWR	296-1064-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	.50	.40	.30
SN74AC74PWR	296-1064-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	280.00/2,000		
SN74AC86D	296-4343-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.43	.34	.26
SN74AC86DBR	296-4344-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.50	.40	.30
SN74AC86DBR	296-4344-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	280.00/2,000		
SN74AC86N	296-4345-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.50	.40	.30
SN74AC86PWR	296-4346-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.50	.40	.30
SN74AC86PWR	296-4346-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	280.00/2,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AC240DBR	296-4303-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.64	.48	.36
SN74AC240DBR	296-4303-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	426.00/2,000		
SN74AC240DW	296-4304-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.64	.48	.36
SN74AC240DWR	296-14686-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.64	.48	.36
SN74AC240DWR	296-14686-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	426.00/2,000		
SN74AC240N	296-4305-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.72	.54	.41
SN74AC240PWR	296-4306-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.64	.48	.36
SN74AC240PWR	296-4306-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	426.00/2,000		
SN74AC241DBR	296-4307-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.56	.42	.32
SN74AC241DBR	296-4307-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	372.00/2,000		
SN74AC241DW	296-1056-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74AC241DWR	296-1056-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74AC241DWR	296-1056-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	372.00/2,000		
SN74AC241N	296-4308-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.56	.42	.32
SN74AC241PWR	296-4309-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.56	.42	.32
SN74AC241PWR	296-4309-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	372.00/2,000		
SN74AC244DBR	296-4310-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.80	.60	.45
SN74AC244DBR	296-4310-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	532.00/2,000		
SN74AC244DWR	296-1057-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.55	.44	.33
SN74AC244DWR	296-1057-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	308.00/2,000		
SN74AC244MDWREP	296-22250-1-ND	Tri-State Octal Buffer/Line Driver ***NEW!***	20-SOIC	2.52	2.02	1.57
SN74AC244MDWREP	296-22250-2-ND	Tri-State Octal Buffer/Line Driver ***NEW!***	20-SOIC	2856.00/2,000		
SN74AC244MNSREP	296-22251-1-ND	Tri-State Octal Buffer/Line Driver ***NEW!***	20-SOP	2.52	2.02	1.57
SN74AC244MNSREP	296-22251-2-ND	Tri-State Octal Buffer/Line Driver ***NEW!***	20-SOP	2856.00/2,000		
SN74AC244N	296-4311-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.80	.60	.45
SN74AC244NSR	296-4312-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.80	.60	.45
SN74AC244NSR	296-4312-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	532.00/2,000		
SN74AC244PWR	296-4313-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.80	.60	.45
SN74AC244PWR	296-4313-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	532.00/2,000		
SN74AC245DBR	296-4314-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.80	.60	.45
SN74AC245DBR	296-4314-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	532.00/2,000		
SN74AC245DW	296-1058-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74AC245DWR	296-1058-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74AC245DWR	296-1058-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	532.00/2,000		
SN74AC245IDWREP	296-19500-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74AC245IDWREP	296-19500-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	1198.00/2,000		
SN74AC245N	296-4315-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.80	.60	.45
SN74AC245PWR	296-4316-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.80	.60	.45
SN74AC245PWR	296-4316-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	532.00/2,000		
SN74AC373DBR	296-4320-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.80	.60	.45
SN74AC373DBR	296-4320-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	532.00/2,000		
SN74AC373DWR	296-4321-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.80	.60	.45
SN74AC373DWR	296-4321-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	532.00/2,000		
SN74AC373MDWREP	296-22253-1-ND	Tri-St. Octal D-Type Transparent Latch ***NEW!***	20-SOIC	2.52	2.02	1.57
SN74AC373MDWREP	296-22253-2-ND	Tri-St. Octal D-Type Transparent Latch ***NEW!***	20-SOIC	2856.00/2,000		
SN74AC373NSR	296-4322-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOP	.80	.60	.45
SN74AC373NSR	296-4322-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOP	532.00/2,000		
SN74AC373PWR	296-4323-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.80	.60	.45
SN74AC373PWR	296-4323-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	532.00/2,000		
SN74AC374DBR	296-4324-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74AC374DBR	296-4324-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74AC374DWR	296-1060-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74AC374DWR	296-1060-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74AC374PWR	296-4325-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74AC374PWR	296-4325-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74AC533DBR	296-4326-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	1.20	1.00	.80
SN74AC533DBR	296-4326-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	1064.00/2,000		
SN74AC533DW	296-4327-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	1.20	1.00	.80
SN74AC533PWR	296-4328-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	1.20	1.00	.80
SN74AC533PWR	296-4328-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	1064.00/2,000		
SN74AC534DBR	296-4329-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.68	.51	.39
SN74AC534DBR	296-4329-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	452.00/2,000		
SN74AC534DW	296-4330-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.68	.51	.39
SN74AC534N	296-4331-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.68	.51	.39
SN74AC534PWR	296-4332-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.60	.45	.34
SN74AC534PWR	296-4332-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	400.00/2,000		
SN74AC563DBR	296-4333-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	1.20	1.00	.80
SN74AC563DBR	296-4333-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	1064.00/2,000		
SN74AC563DW	296-4334-5-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	1.20	1.00	.80
SN74AC563PWR	296-4335-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	1.20	1.00	.80
SN74AC563PWR	296-4335-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	1064.00/2,000		
SN74AC564DW	296-4336-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	1.41	1.18	.94
SN74AC573DBR	296-4337-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.80	.60	.45
SN74AC573DBR	296-4337-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	532.00/2,000		
SN74AC573DW	296-1061-5-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.80	.60	.45
SN74AC573DWR	296-1061-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.80	.60	.45
SN74AC573DWR	296-1061-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	532.00/2,000		
SN74AC573PWR	296-4338-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.80	.60	.45
SN74AC573PWR	296-4338-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	532.00/2,000		
SN74AC574DBR	296-4339-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74AC574DBR	296-4339-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74AC574DW	296-1062-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74AC574DWR	296-1062-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74AC574DWR	296-1062-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74AC574PWR	296-4340-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74AC574PWR	296-4340-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		

ACT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ACT11000DR	296-14295-1-ND	Quad 2-Input NAND Gate	16-SOIC	1.48	1.18	.89
74ACT11000DR	296-14295-2-ND	Quad 2-Input NAND Gate	16-SOIC	1887.50/2,500		
74ACT11004DW	296-4177-5-ND	Hex Inverter	20-SOIC	1.48	1.18	.89
74ACT11008D	296-4178-5-ND	Quad 2-Input AND Gate	16-SOIC	1.48	1.18	.89
74ACT11008N	296-4179-5-ND	Quad 2-Input AND Gate	16-Dip	1.48	1.18	.89
74ACT11030DR	296-4180-1-ND	8-Input NAND Gate	14-SOIC	1.48	1.18	.89
74ACT11030DR	296-4180-2-ND	8-Input NAND Gate	14-SOIC	1887.50/2,500		
74ACT11032DBR	296-4181-1-ND	Quad 2-Input Positive OR Gate	16-SSOP	1.48	1.18	.89
74ACT11032DBR	296-4181-2-ND	Quad 2-Input Positive OR Gate	16-SSOP	1534.00/2,000		
74ACT11032DR	296-4182-1-ND	Quad 2-Input Positive OR Gate	16-SOIC	1.48	1.18	.89
74ACT11032DR	296-4182-2-ND	Quad 2-Input Positive OR Gate	16-SOIC	1887.50/2,500		
74ACT11032N	296-4183-5-ND	Quad 2-Input Positive OR Gate	16-Dip	1.48	1.18	.89
74ACT11074DBR	296-4184-1-ND	Dual Positive Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	1.48	1.18	.89
74ACT11074DBR	296-4184-2-ND	Dual Positive Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	1534.00/2,000		
74ACT11074NSR	296-13059-1-ND	Dual Positive Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	1.48	1.18	.89
74ACT11074NSR	296-13059-2-ND	Dual Positive Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	1534.00/2,000		
74ACT11139D	296-4185-5-ND	Dual 2-4 Decoder/Demux	16-SOIC	1.75	1.40	1.05
74ACT11139PWR	296-4186-1-ND	Dual 2-4 Decoder/Demux	16-TSSOP	1.75	1.40	1.05
74ACT11139PWR	296-4186-2-ND	Dual 2-4 Decoder/Demux	16-TSSOP	1820.00/2,000		
74ACT11240DW	296-4187-5-ND	Tri-State Octal Buffer/Line Driver	24-SOIC	2.36	1.89	1.47
74ACT11240NT	296-4188-5-ND	Tri-State Octal Buffer/Line Driver	24-Dip	2.36	1.89	1.47
74ACT11244DBR	296-4189-1-ND	Tri-State Octal Buffer/Line Driver	24-SSOP	2.36	1.89	1.47
74ACT11244DBR	296-4189-2-ND	Tri-State Octal Buffer/Line Driver	24-SSOP	2678.00/2,000		
74ACT11244DW	296-1001-5-ND	Tri-State Octal Buffer/Line Driver	24-SOIC	2.36	1.89	1.47
74ACT11244DWR	296-1001-1-ND	Tri-State Octal Buffer/Line Driver	24-SOIC	2.36	1.89	1.47
74ACT11244DWR	296-1001-2-ND	Tri-State Octal Buffer/Line Driver	24-SOIC	2678.00/2,000		
74ACT11244NT	296-4190-5-ND	Tri-State Octal Buffer/Line Driver	24-Dip	2.36	1.89	1.47
74ACT11244PWR	296-1002-1-ND	Tri-State Octal Buffer/Line Driver	24-TSSOP	2.36	1.89	1.47
74ACT11244PWR	296-1002-2-ND	Tri-State Octal Buffer/Line Driver	24-TSSOP	2678.00/2,000		
74ACT11245DBR	296-4191-1-ND	Tri-State Octal Bus Transceiver	24-SSOP	2.36	1.89	1.47
74ACT11245DBR	296-4191-2-ND	Tri-State Octal Bus Transceiver	24-SSOP	2678.00/2,000		
74ACT11245DW	296-4192-5-ND	Tri-State Octal Bus Transceiver	24-SOIC	2.36	1.89	1.47
74ACT11245NT	296-4193-5-ND	Tri-State Octal Bus Transceiver	24-Dip	2.36	1.89	1.47
74ACT11245PWR	296-1003-1-ND	Tri-State Octal Bus Transceiver	24-TSSOP	2.36	1.89	1.47
74ACT11245PWR	296-1003-2-ND	Tri-State Octal Bus Transceiver	24-TSSOP	2678.00/2,000		
74ACT11257DBR	296-4194-1-ND	Tri-State Quad 2-1 Multiplexer	20-SSOP	2.13	1.70	1.28
74ACT11257DBR	296-4194-2-ND	Tri-State Quad 2-1 Multiplexer	20-SSOP	2210.00/2,000		
74ACT11257DW	296-4195-5-ND	Tri-State Quad 2-1 Multiplexer	20-SOIC	2.13	1.70	1.28
74ACT11257DWR	296-4195-1-ND	Tri-State Quad 2-1 Multiplexer	20-SOIC	2.13	1.70	1.28
74ACT11257DWR	296-4195-2-ND	Tri-State Quad 2-1 Multiplexer	20-SOIC	2210.00/2,000		
74ACT11286D	296-4196-5-ND	9-Bit Parity Generator/Checker	14-SOIC	2.27	1.82	1.42
74ACT11286DR	296-4196-1-ND	9-Bit Parity Generator/Checker	14-SOIC	2.27	1.82	1.42
74ACT11286DR	296-4196-2-ND	9-Bit Parity Generator/Checker	14-SOIC	3182.50/2,500		
74ACT11373DBR	296-4197-1-ND	Tri-St. Octal D-Type Transparent Latch	24-SSOP	2.36	1.89	1.47
74ACT11373DBR	296-4197-2-ND	Tri-St. Octal D-Type Transparent Latch	24-SSOP	2678.00/2,000		
74ACT11373DW	296-4198-5-ND	Tri-St. Octal D-Type Transparent Latch	24-SOIC	2.36	1.89	1.47
74ACT11374DW	296-4199-5-ND	Tri-State Octal D-Type Flip-Flop	24-SOIC	2.36	1.89	1.47
74ACT11543DWR	296-4200-1-ND	Tri-State Octal Latched Transceiver	28-SOIC	5.18	4.14	3.22
74ACT11543DWR	296-4200-2-ND	Tri-State Octal Latched Transceiver	28-SOIC	2933.00/1,000		
74ACT11652DWR	296-4201-1-ND	Tri-State Octal Register Bus Transceiver	28-SOIC	8.36	6.69	5.65
74ACT11652DWR	296-4201-2-ND	Tri-State Octal Register Bus Transceiver	28-SOIC	5225.00/1,000		
74ACT16240DLR	296-14454-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.33	1.06	.80
74ACT16240DLR	296-14454-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	689.00/1,000		
74ACT16244DGGR	296-1004-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	1.22	1.02	.82
74ACT16244DGGR	296-1004-2-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	1082.00/2,000		
74ACT16244DL	296-1005-5-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	1.33	1.06	.80
74ACT16244DLR	296-1005-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	1.22	1.02	.82
74ACT16244DLR	296-1005-2-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	541.00/1,000		
74ACT16245DGGR	296-4203-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.22	1.02	.82
74ACT16245DGGR	296-4203-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1082.00/2,000		
74ACT16245DLR	296-1006-1-ND	Tri-State 16-Bit Transceiver	48-SSOP	1.22	1.02	.82
74ACT16245DLR	296-1006-2-ND	Tri-State 16-Bit Transceiver	48-SSOP	541.00/1,000		
74ACT16373DL	296-1007-5-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	1.33	1.06	.80
74ACT16373DLR	296-1007-1-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	1.33	1.06	.80
74ACT16373DLR	296-1007-2-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	689.00/1,000		
74ACT16374DL	296-1008-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.33	1.06	.80
74ACT16374DLR	296-1008-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.33	1.06	.80
74ACT16374DLR	296-1008-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	689.00/1,000		
74ACT16543DL	296-1009-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.53	1.22	.92
74ACT16543DLR	296-1009-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.53	1.22	.92
74ACT16543DLR	296-1009-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	793.00/1,000		
74ACT16623DLR	296-4204-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	5.45	4.36	3.39
74ACT16623DLR	296-4204-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	3086.00/1,000		
74ACT16646DL	296-4205-5-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.93	2.34	1.82
74ACT16646DLR	296-4205-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.93	2.34	1.82
74ACT16646DLR	296-4205-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1658.00/1,000		
74ACT16651DL	296-4206-5-ND	Tri-State 16-Bit Transceiver/Register	56-SSOP	8.36	6.69	5.65
74ACT16657DL	296-4207-5-ND	Tri-State 16-Bit Transceiver	56-SSOP	8.98	8.09	7.17
74ACT16823DL	296-4208-5-ND	Tri-State 18-Bit D-Type Flip-Flop	56-SSOP	6.40	5.12	4.32
74ACT16823DLR	296-14457-1-ND	Tri-State 18-Bit D-Type Flip-Flop	56-SSOP	6.40	5.12	4.32
74ACT16823DLR	296-14457-2-ND	Tri-State 18-Bit D-Type Flip-Flop	56-SSOP	4000.00/1,000		
74ACT16825DL	296-4209-5-ND	Tri-State 18-Bit Buffer/Line Driver	56-SSOP	6.40	5.12	4.32
74ACT16825DLR	296-4209-1-ND	Tri-State 18-Bit Buffer/Line Driver	56-SSOP	6.40	5.12	4.32
74ACT16825DLR	296-4209-2-ND	Tri-State 18-Bit Buffer/Line Driver	56-SSOP	4000.00/1,000		
74ACT16841DL	296-4210-5-ND	Tri-State 20-Bit D-Type Latch	56-SSOP	6.40	5.12	4.32
74ACT16863DL	296-4212-5-ND	Tri-State 18-Bit Bus Transceiver	56-SSOP	6.40	5.12	4.32
74ACT16952DLR	296-4213-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	7.46	5.97	5.04
74ACT16952DLR	296-4213-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	4663.00/1,000		
CD74ACT00M	296-4250-5-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.42	.32
CD74ACT00M96	296-14485-1-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.42	.32
CD74ACT00M96	296-14485-2-ND	Quad 2-Input NAND Gate	14-SOIC	455.00/2,500		
CD74ACT02M	296-4251-5-ND	Quad 2-Input NOR Gate	14-SOIC	.56	.42	.32
CD74ACT02M96	296-14486-1-ND	Quad 2-Input NOR Gate	14-SOIC	.56	.42	.32
CD74ACT02M96	296-14486-2-ND	Quad 2-Input NOR Gate	14-SOIC	455.00/2,500		
CD74ACT04E	296-14487-5-ND	Hex Inverter	14-Dip	.60	.45	.34
CD74ACT04M	296-1983-5-ND	Hex Inverter	14-SOIC	.56	.42	.32
CD74ACT04M96	296-1983-1-ND	Hex Inverter	14-SOIC	.56	.42	.32
CD74ACT05E	296-12763-5-ND	Hex Inverter with Open-Drain	14-Dip	.60	.45	.34
CD74ACT05M	296-4252-5-ND	Hex Inverter with Open-Drain	14-SOIC	.56	.42	.32
CD74ACT05M96	296-14488-1-ND	Hex Inverter with Open-Drain	14-SOIC	.56	.42	.32
CD74ACT05M96	296-14488-2-ND	Hex Inverter with Open-Drain	14-SOIC	455.00/2,500		
CD74ACT08M	296-4253-5-ND	Quad 2-Input AND Gate	14-SOIC	.56	.42	.32
CD74ACT08M96	296-14489-1-ND	Quad 2-Input AND Gate	14-SOIC	.56	.42	.32
CD74ACT08M96	296-14489-2-ND	Quad 2-Input AND Gate	14-SOIC	455.00/2,500		
CD74ACT14E	296-12765-5-ND	Hex Schmitt Trigger Inverter	14-Dip	.60	.45	.34
CD74ACT14M	296-1380-5-ND	Hex Schmitt Trigger Inverter	14-SOIC	.56	.42	.32
CD74ACT14M96	296-14492-1-ND	Hex Schmitt Trigger Inverter	14-SOIC	.58	.47	.35
CD74ACT14M96	296-14492-2-ND	Hex Schmitt Trigger Inverter	14-SOIC	392.50/2,500		
CD74ACT20E	296-4266-5-ND	Dual 4-Input NAND Gate	14-Dip	.60	.45	.34
CD74ACT20M	296-4267-5-ND	Dual 4-Input NAND Gate	14-SOIC	.56	.42	.32
CD74ACT32M	296-4278-5-ND	Quad 2-Input OR Gate	14-SOIC	.56	.42	.32
CD74ACT32M96	296-14499-1-ND	Quad 2-Input OR Gate	14-SOIC	.56	.42	.32
CD74ACT32M96	296-14499-2-ND	Quad 2-Input OR Gate	14-SOIC	455.00/2,500		
CD74ACT74M	296-4285-5-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.56	.42	.32
CD74ACT74M96	296-14503-1-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.58	.47	.35
CD74ACT74M96	296-14503-2-ND	Dual D-Type Flip-Flop wtih Set/Reset	14-SOIC	392.50/2,500		
CD74ACT86E	296-4286-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.60	.45	.34

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74ACT86MDREP	296-22099-1-ND	Quad 2-Input Exclusive OR Gate ***NEW!***	14-SOIC	2.10	1.68	1.26
CD74ACT86MDREP	296-22099-2-ND	Quad 2-Input Exclusive OR Gate ***NEW!***	14-SOIC	2687.50/2,500		
CD74ACT109M	296-4254-5-ND	Dual J-K Flip-Flop with Set/Reset	16-SOIC	.72	.54	.41
CD74ACT112M96	296-12764-1-ND	Dual, Neg., J-K Flip-Flop with Set/Reset	16-SOIC	.60	.45	.34
CD74ACT112M96	296-12764-2-ND	Dual, Neg., J-K Flip-Flop with Set/Reset	16-SOIC	487.50/2,500		
CD74ACT138E	296-14490-5-ND	3-8 Line Decoder/Demux	16-Dip	.68	.51	.39
CD74ACT138M	296-4255-5-ND	3-8 Line Decoder/Demux	16-SOIC	.60	.45	.34
CD74ACT138M96	296-14491-1-ND	3-8 Line Decoder/Demux	16-SOIC	.57	.43	.33
CD74ACT138M96	296-14491-2-ND	3-8 Line Decoder/Demux	16-SOIC	465.00/2,500		
CD74ACT139E	296-4256-5-ND	Dual 2-4 Line Decoder/Demux	16-Dip	.68	.51	.39
CD74ACT139M	296-4257-5-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.60	.45	.34
CD74ACT151M96	296-12766-1-ND	8-1 Data Selectors/Multiplexer	16-SOIC	.80	.60	.45
CD74ACT151M96	296-12766-2-ND	8-1 Data Selectors/Multiplexer	16-SOIC	650.00/2,500		
CD74ACT153E	296-4258-5-ND	Dual 4-Input Multiplexer	16-Dip	.80	.60	.45
CD74ACT153M	296-4259-5-ND	Dual 4-Input Multiplexer	16-SOIC	.72	.54	.41
CD74ACT153NSR	296-18400-1-ND	Dual 4-Input Multiplexer	16-SOIC	.72	.54	.41
CD74ACT153NSR	296-18400-2-ND	Dual 4-Input Multiplexer	16-SOIC	478.00/2,000		
CD74ACT157E	296-4260-5-ND	Quad 2-Input Multiplexer	16-Dip	.75	.63	.50
CD74ACT157M	296-4261-5-ND	Quad 2-Input Multiplexer	16-SOIC	.75	.63	.50
CD74ACT157PWR	296-15079-1-ND	Quad 2-Input Multiplexer	16-TSSOP	.72	.54	.41
CD74ACT157PWR	296-15079-2-ND	Quad 2-Input Multiplexer	16-TSSOP	478.00/2,000		
CD74ACT158M96	296-4262-1-ND	Quad 2-Input Multiplexer	16-SOIC	.92	.69	.52
CD74ACT158M96	296-4262-2-ND	Quad 2-Input Multiplexer	16-SOIC	747.50/2,500		
CD74ACT161M	296-4263-5-ND	4-Bit Synchronous Binary Counter	16-SOIC	.64	.48	.36
CD74ACT163M	296-4264-5-ND	4-Bit Synchronous Binary Counter	16-SOIC	.64	.48	.36
CD74ACT164E	296-4265-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.72	.54	.41
CD74ACT164M	296-1381-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.72	.54	.41
CD74ACT164M96	296-14493-1-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.72	.54	.41
CD74ACT164M96	296-14493-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	585.00/2,500		
CD74ACT174M96	296-14494-1-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	.75	.63	.50
CD74ACT174M96	296-14494-2-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	812.50/2,500		
CD74ACT240M96	296-12767-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.92	.69	.52
CD74ACT240M96	296-12767-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	612.00/2,000		
CD74ACT241M96	296-4268-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74ACT241M96	296-4268-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	532.00/2,000		
CD74ACT244E	296-4269-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.92	.69	.52
CD74ACT244M	296-4270-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.92	.69	.52
CD74ACT244M96	296-14495-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.70	.53	.40
CD74ACT244M96	296-14495-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	468.00/2,000		
CD74ACT245E	296-14496-5-ND	Tri-St. Octal Bus Non-Inverting Transcvr	20-Dip	.80	.60	.45
CD74ACT245M	296-4271-5-ND	Tri-St. Octal Bus Non-Inverting Transcvr.	20-SOIC	.80	.60	.45
CD74ACT245M96	296-14497-1-ND	Tri-St. Octal Bus Non-Inverting Transcvr	20-SOIC	.80	.60	.45
CD74ACT245M96	296-14497-2-ND	Tri-St. Octal Bus Non-Inverting Transcvr	20-SOIC	532.00/2,000		
CD74ACT253M	296-23204-5-ND	Tri-State Dual 4-Input Mux ***NEW!***	16-SOIC	.80	.60	.45
CD74ACT273E	296-4272-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.80	.60	.45
CD74ACT273M	296-4273-5-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.80	.60	.45
CD74ACT273M96	296-14498-1-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.70	.53	.40
CD74ACT273M96	296-14498-2-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	468.00/2,000		
CD74ACT273MPWREP	296-22098-1-ND	Octal D-Type Flip-Flop w/Reset ***NEW!***	20-SOIC	2.25	1.80	1.40
CD74ACT273MPWREP	296-22098-2-ND	Octal D-Type Flip-Flop w/Reset ***NEW!***	20-SOIC	2550.00/2,000		
CD74ACT273SM96	296-4274-1-ND	Octal D-Type Flip-Flop with Reset	20-SSOP	.80	.60	.45
CD74ACT273SM96	296-4274-2-ND	Octal D-Type Flip-Flop with Reset	20-SSOP	532.00/2,000		
CD74ACT280M96	296-12768-1-ND	9-Bit Odd/Even Parity Generator/Checker	14-SOIC	.92	.69	.52
CD74ACT280M96	296-12768-2-ND	9-Bit Odd/Even Parity Generator/Checker	14-SOIC	747.50/2,500		
CD74ACT283E	296-4275-5-ND	4-Bit Binary Adder with Fast-Carry	16-Dip	.96	.72	.54
CD74ACT297M	296-4276-5-ND	Digital Phase-Locked Loop	16-SOIC	2.00	1.60	1.20
CD74ACT299M	296-4277-5-ND	8-In Universal Shift/Storage Register	20-SOIC	.90	.75	.60
CD74ACT374E	296-4279-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
CD74ACT374M96	296-14500-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
CD74ACT374M96	296-14500-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
CD74ACT541E	296-1382-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.73	.55	.41
CD74ACT541M	296-4280-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74ACT541M96	296-14501-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.70	.53	.40
CD74ACT541M96	296-14501-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	468.00/2,000		
CD74ACT573M	296-4282-5-ND	Tri-State Octal Transparent Latch	20-SOIC	.80	.60	.45
CD74ACT573M96	296-14502-1-ND	Tri-State Octal Transparent Latch	20-SOIC	.73	.55	.41
CD74ACT573M96	296-14502-2-ND	Tri-State Octal Transparent Latch	20-SOIC	484.00/2,000		
CD74ACT623M96	296-4283-1-ND	Tri-State Octal-Bus Non-Inverting Xcvr	20-SOIC	2.00	1.60	1.20
CD74ACT623M96	296-4283-2-ND	Tri-State Octal-Bus Non-Inverting Xcvr	20-SOIC	2080.00/2,000		
CD74ACT652M	296-4284-5-ND	Tri-State Octal-Bus Transceiver/Register	24-SOIC	1.63	1.30	.98
SN74ACT00D	296-1452-5-ND	Quad 2-Input NAND Gate	14-SOIC	.47	.38	.26
SN74ACT00DBR	296-4347-1-ND	Quad 2-Input NAND Gate	14-SSOP	.45	.36	.27
SN74ACT00DBR	296-4347-2-ND	Quad 2-Input NAND Gate	14-SSOP	252.00/2,000		
SN74ACT00DR	296-14690-1-ND	Quad 2-Input NAND Gate	14-SOIC	.47	.38	.26
SN74ACT00DR	296-14690-2-ND	Quad 2-Input NAND Gate	14-SOIC	305.00/2,500		
SN74ACT00N	296-4348-5-ND	Quad 2-Input NAND Gate	14-Dip	.50	.40	.30
SN74ACT00PWR	296-4349-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.45	.36	.27
SN74ACT00PWR	296-4349-2-ND	Quad 2-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74ACT04D	296-1065-5-ND	Hex Inverter	14-SOIC	.47	.38	.26
SN74ACT04DR	296-1065-1-ND	Hex Inverter	14-SOIC	.47	.38	.26
SN74ACT04DR	296-1065-2-ND	Hex Inverter	14-SOIC	305.00/2,500		
SN74ACT04DBR	296-4350-1-ND	Hex Inverter	14-SSOP	.45	.36	.27
SN74ACT04DBR	296-4350-2-ND	Hex Inverter	14-SSOP	252.00/2,000		
SN74ACT04IDREP	296-22254-1-ND	Hex Inverter ***NEW!***	14-SOIC	.76	.57	.43
SN74ACT04IDREP	296-22254-2-ND	Hex Inverter ***NEW!***	14-SOIC	617.50/2,500		
SN74ACT04N	296-4351-5-ND	Hex Inverter	14-Dip	.50	.40	.30
SN74ACT04PW	296-4352-5-ND	Hex Inverter	14-TSSOP	.45	.36	.27
SN74ACT04PWR	296-4352-1-ND	Hex Inverter	14-TSSOP	.47	.38	.26
SN74ACT04PWR	296-4352-2-ND	Hex Inverter	14-TSSOP	260.00/2,000		
SN74ACT08D	296-1066-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.45	.36	.27
SN74ACT08DR	296-1066-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.45	.36	.27
SN74ACT08DR	296-1066-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	305.00/2,500		
SN74ACT08DBR	296-4353-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.45	.36	.27
SN74ACT08DBR	296-4353-2-ND	Quad 2-Input Positive AND Gate	14-SSOP	252.00/2,000		
SN74ACT08IDREP	296-19501-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.80	.60	.45
SN74ACT08IDREP	296-19501-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	650.00/2,500		
SN74ACT08N	296-4354-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.50	.40	.30
SN74ACT08NSR	296-13130-1-ND	Quad 2-Input Positive AND Gate	14-SOP	.45	.36	.27
SN74ACT08NSR	296-13130-2-ND	Quad 2-Input Positive AND Gate	14-SOP	252.00/2,000		
SN74ACT08PWR	296-4355-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.47	.38	.26
SN74ACT08PWR	296-4355-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	260.00/2,000		
SN74ACT10DR	296-4360-1-ND	Triple 3-Input NAND Gate	14-SOIC	.45	.36	.27
SN74ACT10DR	296-4360-2-ND	Triple 3-Input NAND Gate	14-SOIC	305.00/2,500		
SN74ACT10DBR	296-4358-1-ND	Triple 3-Input NAND Gate	14-SSOP	.45	.36	.27
SN74ACT10DBR	296-4358-2-ND	Triple 3-Input NAND Gate	14-SSOP	252.00/2,000		
SN74ACT10PWR	296-4361-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.45	.36	.27
SN74ACT10PWR	296-4361-2-ND	Triple 3-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74ACT11D	296-1455-5-ND	Triple 3-Input AND Gate	14-SOIC	.50	.40	.30
SN74ACT11DBR	296-4362-1-ND	Triple 3-Input AND Gate	14-SSOP	.50	.40	.30
SN74ACT11DBR	296-4362-2-ND	Triple 3-Input AND Gate	14-SSOP	280.00/2,000		
SN74ACT11N	296-4363-5-ND	Triple 3-Input AND Gate	14-Dip	.55	.44	.33
SN74ACT11PWR	296-4364-1-ND	Triple 3-Input AND Gate	14-TSSOP	.50	.40	.30
SN74ACT11PWR	296-4364-2-ND	Triple 3-Input AND Gate	14-TSSOP	280.00/2,000		
SN74ACT14D	296-1068-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.50	.41	.28
SN74ACT14DR	296-1068-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.50	.41	.28
SN74ACT14DR	296-1068-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	327.50/2,500		
SN74ACT14DBR	296-4367-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.43	.34	.26
SN74ACT14DBR	296-4367-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	238.00/2,000		
SN74ACT14N	296-4368-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.50	.40	.30
SN74ACT14PWR	296-4369-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.47	.38	.26
SN74ACT14PWR	296-4369-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	260.00/2,000		
SN74ACT32D	296-1074-5-ND	Quad 2-Input OR Gate	14-SOIC	.45	.36	.27
SN74ACT32DR	296-1074-1-ND	Quad 2-Input OR Gate	14-SOIC	.47	.38	.26
SN74ACT32DR	296-1074-2-ND	Quad 2-Input OR Gate	14-SOIC	305.00/2,500		
SN74ACT32DBR	296-4387-1-ND	Quad 2-Input OR Gate	14-SSOP	.45	.36	.27
SN74ACT32DBR	296-4387-2-ND	Quad 2-Input OR Gate	14-SSOP	252.00/2,000		
SN74ACT32N	296-4388-5-ND	Quad 2-Input OR Gate	14-Dip	.50	.40	.30
SN74ACT32PWR	296-4389-1-ND	Quad 2-Input OR Gate	14-TSSOP	.47	.38	.26
SN74ACT32PWR	296-4389-2-ND	Quad 2-Input OR Gate	14-TSSOP	260.00/2,000		
SN74ACT74D	296-1079-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.50	.40	.30
SN74ACT74DR	296-1079-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.47	.38	.26
SN74ACT74DR	296-1079-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	305.00/2,500		
SN74ACT74DBR	296-4443-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	.50	.40	.30
SN74ACT74DBR	296-4443-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	280.00/2,000		
SN74ACT74MDREP	296-20684-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	1.40	1.12	.84
SN74ACT74MDREP	296-20684-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	1792.50/2,500		
SN74ACT74N	296-4444-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-Dip	.50	.40	.30
SN74ACT74NSR	296-13131-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	.50	.40	.30
SN74ACT74NSR	296-13131-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	280.00/2,000		
SN74ACT74PWR	296-4446-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	.50	.40	.30
SN74ACT74PWR	296-4446-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	238.00/2,000		
SN74ACT86D	296-1463-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.50	.40	.30
SN74ACT86DBR	296-4502-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.50	.40	.30
SN74ACT86DBR	296-4502-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	280.00/2,000		
SN74ACT86DR	296-9757-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.50	.40	.30
SN74ACT86DR	296-9757-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	337.50/2,500		
SN74ACT86N	296-4503-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.50	.40	.30
SN74ACT86PWR	296-4504-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.50	.40	.30
SN74ACT86PWR	296-4504-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	280.00/2,000		
SN74ACT240DBR	296-4377-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.56	.42	.32
SN74ACT240DBR	296-4377-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	372.00/2,000		
SN74ACT240DWR	296-4378-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74ACT240DWR	296-4378-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	372.00/2,000		
SN74ACT240N	296-4379-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74ACT240PWR	296-4380-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.56	.42	.32
SN74ACT240PWR	296-4380-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	372.00/2,000		
SN74ACT241DBR	296-4381-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.56	.42	.32
SN74ACT241DBR	296-4381-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	372.00/2,000		
SN74ACT241DW	296-4382-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74ACT241N	296-4383-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74ACT241PWR	296-4384-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.56	.42	.32
SN74ACT241PWR	296-4384-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	372.00/2,000		
SN74ACT244DBR	296-1069-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.55	.44	.33
SN74ACT244DBR	296-1069-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	308.00/2,000		
SN74ACT244DW	296-1070-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.55	.44	.33
SN74ACT244DWR	296-1070-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.55	.44	.33
SN74ACT244DWR	296-1070-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	308.00/2,000		
SN74ACT244IDWREP	296-19502-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.35	1.13	.90
SN74ACT244IDWREP	296-19502-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	1198.00/2,000		
SN74ACT244MDWREP	296-22256-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	2.52	2.02	1.57
SN74ACT244MDWREP	296-22256-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	2856.00/2,000		
SN74ACT244MNSREP	296-22257-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOP	2.52	2.02	1.57
SN74ACT244MNSREP	296-22257-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOP	2856.00/2,000		
SN74ACT244N	296-4385-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.80	.60	.45
SN74ACT244PWR	296-1071-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.50	.40	.30
SN74ACT244PWR	296-1071-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	278.00/2,000		
SN74ACT245DBR	296-4386-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.80	.60	.45
SN74ACT245DBR	296-4386-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	532.00/2,000		
SN74ACT245DW	296-1072-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.48	.37	.28
SN74ACT245DWR	296-1072-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.48	.37	.28
SN74ACT245DWR	296-1072-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	322.00/2,000		
SN74ACT245N	296-1460-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.80	.60	.45
SN74ACT245PWR	296-1073-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.48	.37	.28
SN74ACT245PWR	296-1073-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	322.00/2,000		
SN74ACT373DBR	296-4420-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.80	.60	.45
SN74ACT373DBR	296-4420-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	532.00/2,000		
SN74ACT373DW	296-4421-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.80	.60	.45
SN74ACT373MDWREP	296-22258-1-ND	Tri-State Octal D-Type Transparent Latch ***NEW!***	20-SOIC	2.52	2.02	1.57
SN74ACT373MDWREP	296-22258-2-ND	Tri-State Octal D-Type Transparent Latch ***NEW!***	20-SOIC	2856.00/2,000		
SN74ACT373N	296-4422-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.80	.60	.45
SN74ACT373PWR	296-1075-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.80	.60	.45
SN74ACT373PWR	296-1075-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	532.00/2,000		
SN74ACT374DBR	296-1076-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74ACT374DBR	296-1076-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74ACT374DW	296-1077-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ACT374DWR	296-1077-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ACT374DWR	296-1077-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74ACT374PWR	296-4423-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74ACT374PWR	296-4423-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74ACT533DBR	296-4424-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.68	.51	.39
SN74ACT533DBR	296-4424-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	452.00/2,000		
SN74ACT533DW	296-4425-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.68	.51	.39
SN74ACT533N	296-4426-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.68	.51	.39
SN74ACT533PWR	296-4427-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.68	.51	.39
SN74ACT533PWR	296-4427-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	452.00/2,000		
SN74ACT534DBR	296-4428-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.68	.51	.39
SN74ACT534DBR	296-4428-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	452.00/2,000		
SN74ACT534DW	296-4429-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.68	.51	.39
SN74ACT534DWR	296-4429-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.68	.51	.39
SN74ACT534DWR	296-4429-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	452.00/2,000		
SN74ACT534PWR	296-4430-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.68	.51	.39
SN74ACT534PWR	296-4430-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	452.00/2,000		
SN74ACT563DBR	296-4431-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.68	.51	.39
SN74ACT563DBR	296-4431-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	452.00/2,000		
SN74ACT563DW	296-4432-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.68	.51	.39
SN74ACT564DBR	296-4433-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.68	.51	.39
SN74ACT564DBR	296-4433-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	452.00/2,000		
SN74ACT564DW	296-4434-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.68	.51	.39
SN74ACT564PWR	296-4435-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.68	.51	.39
SN74ACT564PWR	296-4435-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	452.00/2,000		
SN74ACT573DBR	296-4436-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.80	.60	.45
SN74ACT573DBR	296-4436-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	532.00/2,000		
SN74ACT573DW	296-4437-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.80	.60	.45
SN74ACT573N	296-4438-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.80	.60	.45
SN74ACT573PWR	296-4439-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.80	.60	.45
SN74ACT573PWR	296-4439-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	532.00/2,000		
SN74ACT574DBR	296-4440-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74ACT574DBR	296-4440-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74ACT574DW	296-4441-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ACT574N	296-4442-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
SN74ACT574PWR	296-1078-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74ACT574PWR	296-1078-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74ACT1071DR	296-14692-1-ND	10-Bit Bus Termination Array	14-SOIC	2.30	1.84	1.38
SN74ACT1071DR	296-14692-2-ND	10-Bit Bus Termination Array	14-SOIC	2945.00/2,500		
SN74ACT1073DWR	296-14693-1-ND	16-Bit Bus Termination Array	20-SOIC	2.59	2.07	1.61
SN74ACT1073DWR	296-14693-2-ND	16-Bit Bus Termination Array	20-SOIC	2932.00/2,000		
SN74ACT1284DBR	296-4365-1-ND	Tri-State 7-Bit Bus Interface	20-SSOP	.84	.70	.56
SN74ACT1284DBR	296-4365-2-ND	Tri-State 7-Bit Bus Interface	20-SSOP	744.00/2,000		
SN74ACT1284DW	296-1067-5-ND	Tri-State 7-Bit Bus Interface	20-SOIC	.84	.70	.56
SN74ACT1284DWR	296-1067-1-ND	Tri-State 7-Bit Bus Interface	20-SOIC	.84	.70	.56
SN74ACT1284DWR	296-1067-2-ND	Tri-State 7-Bit Bus Interface	20-SOIC	744.00/2,000		
SN74ACT1284PWR	296-4366-1-ND	Tri-State 7-Bit Bus Interface	20-TSSOP	.84	.70	.56
SN74ACT1284PWR	296-4366-2-ND	Tri-State 7-Bit Bus Interface	20-TSSOP	744.00/2,000		
SN74ACT8990FN	296-4505-5-ND	16-Bit Test-Bus Controller Tap Master	44-PLCC	27.00	25.20	23.40
SN74ACT8990FNR	296-4505-1-ND	16-Bit Test-Bus Controller Tap Master	44-PLCC	27.00	25.20	23.40
SN74ACT8990FNR	296-4505-2-ND	16-Bit Test-Bus Controller Tap Master	44-PLCC	11250.00/500		
SN74ACT8997DW	296-4506-5-ND	Scan Path Linker with 4-Bit ID	28-SOIC	8.33	7.50	6.65
SN74ACT8997DWR	296-15977-1-ND	Scan Path Linker with 4-Bit ID	28-SOIC	8.33	7.50	6.65
SN74ACT8997DWR	296-15977-2-ND	Scan Path Linker with 4-Bit ID	28-SOIC	6175.00/1,000		
SN74ACT16245QDLREP	296-18124-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	3.58	2.87	2.23
SN74ACT16245QDLREP	296-18124-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2027.00/1,000		
SN74ACT16373QDLREP	296-20726-1-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	3.58	2.87	2.23
SN74ACT16373QDLREP	296-20726-2-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	2027.00/1,000		
SN74ACT16374QDLREP	296-22255-1-ND	Tri-State 16-Bit D-Type Transparent Latch ***NEW!***	48-SSOP	3.58	2.87	2.23
SN74ACT16374QDLREP	296-22255-2-ND	Tri-St. 16-Bit D-Type Transparent Latch ***NEW!***	48-SSOP	2027.00/1,000		

AHC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHC00DBR	296-4507-1-ND	Quad 2-Input Positive NAND Gate	14-SSOP	.39	.32	.22
SN74AHC00DBR	296-4507-2-ND	Quad 2-Input Positive NAND Gate	14-SSOP	216.00/2,000		
SN74AHC00DGVR	296-4508-1-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	.42	.35	.24
SN74AHC00DGVR	296-4508-2-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	234.00/2,000		
SN74AHC00DR	296-4509-1-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.39	.32	.22
SN74AHC00DR	296-4509-2-ND	Quad 2-Input Positive NAND Gate	14-SOIC	255.00/2,500		
SN74AHC00MDREP	296-22259-1-ND	Quad 2-In. Positive NAND Gate ***NEW!***	14-SOIC	1.17	.98	.78
SN74AHC00MDREP	296-22259-2-ND	Quad 2-In. Positive NAND Gate ***NEW!***	14-SOIC	1267.50/2,500		
SN74AHC00MPWREP	296-22260-1-ND	Quad 2-In. Positive NAND Gate ***NEW!***	14-TSSOP	1.17	.98	.78
SN74AHC00MPWREP	296-22260-2-ND	Quad 2-In. Positive NAND Gate ***NEW!***	14-TSSOP	1038.00/2,000		
SN74AHC00N	296-4510-5-ND	Quad 2-Input Positive NAND Gate	14-Dip	.50	.40	.30
SN74AHC00NSR	296-13132-1-ND	Quad 2-Input Positive NAND Gate	14-SOP	.42	.35	.24
SN74AHC00NSR	296-13132-2-ND	Quad 2-Input Positive NAND Gate	14-SOP	234.00/2,000		
SN74AHC00PWR	296-1080-1-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	.39	.32	.22
SN74AHC00PWR	296-1080-2-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	216.00/2,000		
SN74AHC00QPWRQ1	296-17742-1-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	.60	.45	.34
SN74AHC00QPWRQ1	296-17742-2-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	400.00/2,000		
SN74AHC00RGYR	296-13893-1-ND	Quad 2-Input Positive NAND Gate	14-QFN	.55	.44	.33
SN74AHC00RGYR	296-13893-2-ND	Quad 2-Input Positive NAND Gate	14-QFN	154.00/1,000		
SN74AHC02D	296-4511-5-ND	Quad 2-Input NOR Gate	14-SOIC	.39	.32	.22
SN74AHC02DR	296-4511-1-ND	Quad 2-Input NOR Gate	14-SOIC	.39	.32	.22
SN74AHC02DR	296-4511-2-ND	Quad 2-Input NOR Gate	14-SOIC	255.00/2,500		
SN74AHC02DBR	296-4512-1-ND	Quad 2-Input NOR Gate	14-SSOP	.42	.35	.24
SN74AHC02DBR	296-4512-2-ND	Quad 2-Input NOR Gate	14-SSOP	234.00/2,000		
SN74AHC02DGVR	296-4513-1-ND	Quad 2-Input NOR Gate	14-TVSOP	.42	.35	.24
SN74AHC02DGVR	296-4513-2-ND	Quad 2-Input NOR Gate	14-TVSOP	234.00/2,000		
SN74AHC02MPWREP	296-22261-1-ND	Quad 2-Input NOR Gate ***NEW!***	14-TSSOP	1.17	.98	.78
SN74AHC02MPWREP	296-22261-2-ND	Quad 2-Input NOR Gate ***NEW!***	14-TSSOP	1038.00/2,000		
SN74AHC02N	296-4514-5-ND	Quad 2-Input NOR Gate	14-Dip	.50	.40	.30
SN74AHC02PWR	296-4515-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.39	.32	.22
SN74AHC02PWR	296-4515-2-ND	Quad 2-Input NOR Gate	14-TSSOP	216.00/2,000		
SN74AHC02RGYR	296-13894-1-ND	Quad 2-Input NOR Gate	14-QFN	.55	.44	.33
SN74AHC02RGYR	296-13894-2-ND	Quad 2-Input NOR Gate	14-QFN	154.00/1,000		
SN74AHC04D	296-4516-5-ND	Hex Inverter	14-SOIC	.39	.32	.22
SN74AHC04DR	296-4516-1-ND	Hex Inverter	14-SOIC	.39	.32	.22
SN74AHC04DR	296-4516-2-ND	Hex Inverter	14-SOIC	255.00/2,500		
SN74AHC04DBR	296-4517-1-ND	Hex Inverter	14-SSOP	.46	.37	.26
SN74AHC04DBR	296-4517-2-ND	Hex Inverter	14-SSOP	252.00/2,000		
SN74AHC04DGVR	296-4518-1-ND	Hex Inverter	14-TVSOP	.50	.41	.28
SN74AHC04DGVR	296-4518-2-ND	Hex Inverter	14-TVSOP	278.00/2,000		

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHC04MDREP	296-22262-1-ND	Hex Inverter ***NEW!***	14-SOIC	1.17	.98	.78
SN74AHC04MDREP	296-22262-2-ND	Hex Inverter ***NEW!***	14-SOIC	1267.50/2,500		
SN74AHC04MPWREP	296-21247-1-ND	Hex Inverter	14-TSSOP	1.17	.98	.78
SN74AHC04MPWREP	296-21247-2-ND	Hex Inverter	14-TSSOP	1038.00/2,000		
SN74AHC04N	296-4519-5-ND	Hex Inverter	14-Dip	.50	.40	.30
SN74AHC04PWR	296-1081-1-ND	Hex Inverter	14-TSSOP	.39	.32	.22
SN74AHC04PWR	296-1081-2-ND	Hex Inverter	14-TSSOP	216.00/2,000		
SN74AHC04QDRQ1	296-18532-1-ND	Hex Inverter	14-SOIC	.41	.33	.25
SN74AHC04QDRQ1	296-18532-2-ND	Hex Inverter	14-SOIC	277.50/2,500		
SN74AHC04RGYR	296-13895-1-ND	Hex Inverter	14-QFN	.55	.44	.33
SN74AHC04RGYR	296-13895-2-ND	Hex Inverter	14-QFN	154.00/1,000		
SN74AHC05D	296-1997-5-ND	Hex Inverter with OD Output	14-SOIC	.46	.37	.26
SN74AHC05DT	296-1997-1-ND	Hex Inverter with OD Output	14-SOIC	.46	.37	.26
SN74AHC05DR	296-1997-2-ND	Hex Inverter with OD Output	14-SOIC	297.50/2,500		
SN74AHC05N	296-1464-5-ND	Hex Inverter with OD Output	14-Dip	.50	.40	.30
SN74AHC05PWR	296-4520-1-ND	Hex Inverter with OD Output	14-TSSOP	.46	.37	.26
SN74AHC05PWR	296-4520-2-ND	Hex Inverter with OD Output	14-TSSOP	252.00/2,000		
SN74AHC08D	296-4523-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.39	.32	.22
SN74AHC08DBR	296-4521-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.46	.37	.26
SN74AHC08DBR	296-4521-2-ND	Quad 2-Input Positive AND Gate	14-SSOP	252.00/2,000		
SN74AHC08DGVR	296-4522-1-ND	Quad 2-Input Positive AND Gate	14-TVSOP	.50	.41	.28
SN74AHC08DGVR	296-4522-2-ND	Quad 2-Input Positive AND Gate	14-TVSOP	278.00/2,000		
SN74AHC08DR	296-4523-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.39	.32	.22
SN74AHC08DR	296-4523-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	255.00/2,500		
SN74AHC08MDREP	296-22263-1-ND	Quad 2-In. Positive AND Gate ***NEW!***	14-SOIC	1.17	.98	.78
SN74AHC08MDREP	296-22263-2-ND	Quad 2-In. Positive AND Gate ***NEW!***	14-SOIC	1267.50/2,500		
SN74AHC08MPWREP	296-22264-1-ND	Quad 2-In. Positive AND Gate ***NEW!***	14-TSSOP	1.17	.98	.78
SN74AHC08MPWREP	296-22264-2-ND	Quad 2-In. Positive AND Gate ***NEW!***	14-TSSOP	1038.00/2,000		
SN74AHC08N	296-4524-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.50	.40	.30
SN74AHC08NSR	296-13133-1-ND	Quad 2-Input Positive AND Gate	14-SOP	.46	.37	.26
SN74AHC08NSR	296-13133-2-ND	Quad 2-Input Positive AND Gate	14-SOP	252.00/2,000		
SN74AHC08PWR	296-1082-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.39	.32	.22
SN74AHC08PWR	296-1082-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	216.00/2,000		
SN74AHC08QDRQ1	296-18533-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.60	.45	.34
SN74AHC08QDRQ1	296-18533-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	487.50/2,500		
SN74AHC08RGYR	296-13896-1-ND	Quad 2-Input Positive AND Gate	14-QFN	.55	.44	.33
SN74AHC08RGYR	296-13896-2-ND	Quad 2-Input Positive AND Gate	14-QFN	154.00/1,000		
SN74AHC14DBR	296-4548-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.46	.37	.26
SN74AHC14DBR	296-4548-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	252.00/2,000		
SN74AHC14DGVR	296-4549-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.50	.41	.28
SN74AHC14DGVR	296-4549-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	278.00/2,000		
SN74AHC14DR	296-1085-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.39	.32	.22
SN74AHC14DR	296-1085-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	255.00/2,500		
SN74AHC14MDREP	296-20768-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	1.17	.98	.78
SN74AHC14MDREP	296-20768-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	1267.50/2,500		
SN74AHC14MPWREP	296-20706-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	1.17	.98	.78
SN74AHC14MPWREP	296-20706-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	1038.00/2,000		
SN74AHC14N	296-4550-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.50	.40	.30
SN74AHC14PWR	296-1086-1-ND	Hex Schmitt Trigger Inverter	14-TSSOP	.39	.32	.22
SN74AHC14PWR	296-1086-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	216.00/2,000		
SN74AHC14QDRQ1	296-18534-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.60	.45	.34
SN74AHC14QDRQ1	296-18534-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	487.50/2,500		
SN74AHC14QPWRQ1	296-13863-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.60	.45	.34
SN74AHC14QPWRQ1	296-13863-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	400.00/2,000		
SN74AHC14RGYR	296-13901-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.55	.44	.33
SN74AHC14RGYR	296-13901-2-ND	Hex Schmitt-Trigger Inverter	14-QFN	154.00/1,000		
SN74AHC32DBR	296-4593-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.46	.37	.26
SN74AHC32DBR	296-4593-2-ND	Quad 2-Input Positive OR Gate	14-SSOP	252.00/2,000		
SN74AHC32DGVR	296-4594-1-ND	Quad 2-Input Positive OR Gate	14-TVSOP	.50	.41	.28
SN74AHC32DGVR	296-4594-2-ND	Quad 2-Input Positive OR Gate	14-TVSOP	278.00/2,000		
SN74AHC32DR	296-4595-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.39	.32	.22
SN74AHC32DR	296-4595-2-ND	Quad 2-Input Positive OR Gate	14-SOIC	255.00/2,500		
SN74AHC32MDREP	296-22271-1-ND	Quad 2-Input Positive OR Gate ***NEW!***	14-SOIC	1.17	.98	.78
SN74AHC32MDREP	296-22271-2-ND	Quad 2-Input Positive OR Gate ***NEW!***	14-SOIC	1267.50/2,500		
SN74AHC32MPWREP	296-22272-1-ND	Quad 2-Input Positive OR Gate ***NEW!***	14-TSSOP	1.17	.98	.78
SN74AHC32MPWREP	296-22272-2-ND	Quad 2-Input Positive OR Gate ***NEW!***	14-TSSOP	1038.00/2,000		
SN74AHC32N	296-4596-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.50	.40	.30
SN74AHC32NSR	296-13136-1-ND	Quad 2-Input Positive OR Gate	14-SOP	.46	.37	.26
SN74AHC32NSR	296-13136-2-ND	Quad 2-Input Positive OR Gate	14-SOP	252.00/2,000		
SN74AHC32PWR	296-1099-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.39	.32	.22
SN74AHC32PWR	296-1099-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	216.00/2,000		
SN74AHC32QDRQ1	296-17497-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.60	.45	.34
SN74AHC32QDRQ1	296-17497-2-ND	Quad 2-Input Positive OR Gate	14-SOIC	487.50/2,500		
SN74AHC32QPWRQ1	296-17540-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.60	.45	.34
SN74AHC32QPWRQ1	296-17540-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	400.00/2,000		
SN74AHC32RGYR	296-13903-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.55	.44	.33
SN74AHC32RGYR	296-13903-2-ND	Quad 2-Input Positive OR Gate	14-QFN	154.00/1,000		
SN74AHC74D	296-1105-5-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	.39	.32	.22
SN74AHC74DR	296-1105-1-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	.39	.32	.22
SN74AHC74DR	296-1105-2-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	255.00/2,500		
SN74AHC74DBR	296-4621-1-ND	Dual D-Type F/F with Clear/Preset	14-SSOP	.46	.37	.26
SN74AHC74DBR	296-4621-2-ND	Dual D-Type F/F with Clear/Preset	14-SSOP	252.00/2,000		
SN74AHC74DGVR	296-4622-1-ND	Dual D-Type F/F with Clear/Preset	14-TVSOP	.50	.41	.28
SN74AHC74DGVR	296-4622-2-ND	Dual D-Type F/F with Clear/Preset	14-TVSOP	278.00/2,000		
SN74AHC74MDREP	296-22273-1-ND	Dual D-Type F/F w/Clear/Preset ***NEW!***	14-SOIC	1.17	.98	.78
SN74AHC74MDREP	296-22273-2-ND	Dual D-Type F/F w/Clear/Preset ***NEW!***	14-SOIC	1267.50/2,500		
SN74AHC74MPWREP	296-22274-1-ND	Dual D-Type F/F w/Clear/Preset ***NEW!***	14-TSSOP	1.17	.98	.78
SN74AHC74MPWREP	296-22274-2-ND	Dual D-Type F/F w/Clear/Preset ***NEW!***	14-TSSOP	1038.00/2,000		
SN74AHC74N	296-4623-5-ND	Dual D-Type F/F with Clear/Preset	14-Dip	.50	.40	.30
SN74AHC74PWR	296-4624-1-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	.43	.35	.24
SN74AHC74PWR	296-4624-2-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	238.00/2,000		
SN74AHC74QDRQ1	296-17298-1-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	.64	.48	.36
SN74AHC74QDRQ1	296-17298-2-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	520.00/2,500		
SN74AHC74QPWRQ1	296-17496-1-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	.64	.48	.36
SN74AHC74QPWRQ1	296-17496-2-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	426.00/2,000		
SN74AHC74RGYR	296-13904-1-ND	Dual D-Type Flip-Flop with Clear/Preset	14-QFN	.52	.39	.30
SN74AHC74RGYR	296-13904-2-ND	Dual D-Type Flip-Flop with Clear/Preset	14-QFN	173.00/1,000		
SN74AHC86D	296-4625-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.39	.32	.22
SN74AHC86DR	296-4625-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.39	.32	.22
SN74AHC86DR	296-4625-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	255.00/2,500		
SN74AHC86DBR	296-4626-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.46	.37	.26
SN74AHC86DBR	296-4626-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	252.00/2,000		
SN74AHC86N	296-4627-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.50	.40	.30
SN74AHC86PWR	296-4628-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.40	.32	.24
SN74AHC86PWR	296-4628-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	224.00/2,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AHC86RGYR	296-13905-1-ND	Quad 2-Input Exclusive OR Gate	14-QFN	.60	.45	.34
SN74AHC86RGYR	296-13905-2-ND	Quad 2-Input Exclusive OR Gate	14-QFN	200.00/1,000		
SN74AHC123ADBR	296-4525-1-ND	Dual Retrig Monostable Multivibrator	16-SSOP	.55	.44	.33
SN74AHC123ADBR	296-4525-2-ND	Dual Retrig Monostable Multivibrator	16-SSOP	308.00/2,000		
SN74AHC123ADGVR	296-4526-1-ND	Dual Retrig Monostable Multivibrator	16-TVSOP	.48	.36	.27
SN74AHC123ADGVR	296-4526-2-ND	Dual Retrig Monostable Multivibrator	16-TVSOP	320.00/2,000		
SN74AHC123ADR	296-4527-1-ND	Dual Retrig Monostable Multivibrator	16-SOIC	.45	.36	.27
SN74AHC123ADR	296-4527-2-ND	Dual Retrig Monostable Multivibrator	16-SOIC	305.00/2,500		
SN74AHC123AMDREP	296-22265-1-ND	Dual Retriggerable Mono Multivibrator ***NEW!***	16-SOIC	.99	.83	.66
SN74AHC123AMDREP	296-22265-2-ND	Dual Retriggerable Mono Multivibrator ***NEW!***	16-SOIC	1072.50/2,500		
SN74AHC123APWR	296-4528-1-ND	Dual Retrig Monostable Multivibrator	16-TSSOP	.50	.40	.30
SN74AHC123APWR	296-4528-2-ND	Dual Retrig Monostable Multivibrator	16-TSSOP	280.00/2,000		
SN74AHC125DBR	296-4529-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74AHC125DBR	296-4529-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	308.00/2,000		
SN74AHC125DR	296-4530-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.45	.36	.27
SN74AHC125DR	296-4530-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	305.00/2,500		
SN74AHC125MDREP	296-22266-1-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-SOIC	1.55	1.24	.93
SN74AHC125MDREP	296-22266-2-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-SOIC	1985.00/2,500		
SN74AHC125MPWREP	296-22267-1-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-TSSOP	1.55	1.24	.93
SN74AHC125MPWREP	296-22267-2-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-TSSOP	1612.00/2,000		
SN74AHC125N	296-4531-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.50	.40	.30
SN74AHC125PWR	296-1083-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.42	.34	.24
SN74AHC125PWR	296-1083-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	230.00/2,000		
SN74AHC125QPWRG4	296-22041-1-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-TSSOP	.74	.56	.42
SN74AHC125QPWRG4	296-22041-2-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-TSSOP	492.00/2,000		
SN74AHC125QPWRQ1	296-17494-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.52	.39	.30
SN74AHC125QPWRQ1	296-17494-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	344.00/2,000		
SN74AHC125RGYR	296-13897-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.48	.36	.27
SN74AHC125RGYR	296-13897-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	160.00/1,000		
SN74AHC126DBR	296-4532-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74AHC126DBR	296-4532-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	308.00/2,000		
SN74AHC126DGVR	296-4533-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.55	.44	.33
SN74AHC126DGVR	296-4533-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	308.00/2,000		
SN74AHC126DR	296-4534-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.45	.36	.27
SN74AHC126DR	296-4534-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	305.00/2,500		
SN74AHC126N	296-4535-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.50	.40	.30
SN74AHC126PWR	296-4536-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.50	.40	.30
SN74AHC126PWR	296-4536-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	280.00/2,000		
SN74AHC132D	296-1465-5-ND	Quad NAND Gate	14-SOIC	.45	.36	.27
SN74AHC132DR	296-1465-1-ND	Quad NAND Gate	14-SOIC	.45	.36	.27
SN74AHC132DR	296-1465-2-ND	Quad NAND Gate	14-SOIC	305.00/2,500		
SN74AHC132DBR	296-4537-1-ND	Quad NAND Gate	14-SSOP	.55	.44	.33
SN74AHC132DBR	296-4537-2-ND	Quad NAND Gate	14-SSOP	308.00/2,000		
SN74AHC132DGVR	296-4538-1-ND	Quad NAND Gate	14-TVSOP	.55	.44	.33
SN74AHC132DGVR	296-4538-2-ND	Quad NAND Gate	14-TVSOP	308.00/2,000		
SN74AHC132N	296-1466-5-ND	Quad NAND Gate	14-Dip	.50	.40	.30
SN74AHC132PWR	296-4539-1-ND	Quad NAND Gate	14-TSSOP	.50	.40	.30
SN74AHC132PWR	296-4539-2-ND	Quad NAND Gate	14-TSSOP	280.00/2,000		
SN74AHC132RGYR	296-13898-1-ND	Quad NAND Gate	14-QFN	.48	.36	.27
SN74AHC132RGYR	296-13898-2-ND	Quad NAND Gate	14-QFN	160.00/1,000		
SN74AHC138D	296-4540-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.45	.36	.27
SN74AHC138DR	296-4540-1-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.45	.36	.27
SN74AHC138DR	296-4540-2-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	305.00/2,500		
SN74AHC138DBR	296-4541-1-ND	3-8 Line Decoder/Demultiplexer	16-SSOP	.55	.44	.33
SN74AHC138DBR	296-4541-2-ND	3-8 Line Decoder/Demultiplexer	16-SSOP	308.00/2,000		
SN74AHC138N	296-4542-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.50	.40	.30
SN74AHC138PWR	296-1084-1-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	.43	.35	.24
SN74AHC138PWR	296-1084-2-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	238.00/2,000		
SN74AHC138RGYR	296-13899-1-ND	3-8 Line Decoder/Demultiplexer	16-QFN	.56	.42	.32
SN74AHC138RGYR	296-13899-2-ND	3-8 Line Decoder/Demultiplexer	16-QFN	186.00/1,000		
SN74AHC139D	296-4543-5-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.45	.36	.27
SN74AHC139DBR	296-4544-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	.55	.44	.33
SN74AHC139DBR	296-4544-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	308.00/2,000		
SN74AHC139DGVR	296-4545-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	.48	.36	.27
SN74AHC139DGVR	296-4545-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	320.00/2,000		
SN74AHC139N	296-4546-5-ND	Dual 2-4 Decoder/Demultiplexer	16-Dip	.50	.40	.30
SN74AHC139PWR	296-4547-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	.50	.40	.30
SN74AHC139PWR	296-4547-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	280.00/2,000		
SN74AHC139RGYR	296-13900-1-ND	Dual 2-4 Decoder/Demultiplexer	16-QFN	.56	.42	.32
SN74AHC139RGYR	296-13900-2-ND	Dual 2-4 Decoder/Demultiplexer	16-QFN	186.00/1,000		
SN74AHC157D	296-4551-5-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	.45	.36	.27
SN74AHC157DBR	296-4552-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SSOP	.64	.48	.36
SN74AHC157DBR	296-4552-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SSOP	426.00/2,000		
SN74AHC157DGVR	296-4553-1-ND	Quad 2-1 Data Selector/Multiplexer	16-TVSOP	.64	.48	.36
SN74AHC157DGVR	296-4553-2-ND	Quad 2-1 Data Selector/Multiplexer	16-TVSOP	426.00/2,000		
SN74AHC157DR	296-14700-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	.45	.36	.27
SN74AHC157DR	296-14700-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	305.00/2,500		
SN74AHC157N	296-4554-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.50	.40	.30
SN74AHC157NSR	296-13134-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SOP	.64	.48	.36
SN74AHC157NSR	296-13134-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SOP	426.00/2,000		
SN74AHC157PWR	296-4555-1-ND	Quad 2-1 Data Selector/Multiplexer	16-TSSOP	.50	.40	.30
SN74AHC157PWR	296-4555-2-ND	Quad 2-1 Data Selector/Multiplexer	16-TSSOP	280.00/2,000		
SN74AHC157RGYR	296-13902-1-ND	Quad 2-1 Data Selector/Multiplexer	16-QFN	.64	.48	.36
SN74AHC157RGYR	296-13902-2-ND	Quad 2-1 Data Selector/Multiplexer	16-QFN	213.00/1,000		
SN74AHC158DBR	296-4556-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SSOP	.55	.44	.33
SN74AHC158DBR	296-4556-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SSOP	308.00/2,000		
SN74AHC158DGVR	296-4557-1-ND	Quad 2-1 Data Selector/Multiplexer	16-TVSOP	.55	.44	.33
SN74AHC158DGVR	296-4557-2-ND	Quad 2-1 Data Selector/Multiplexer	16-TVSOP	308.00/2,000		
SN74AHC158DR	296-4558-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	.50	.40	.30
SN74AHC158DR	296-4558-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	337.50/2,500		
SN74AHC158PWR	296-4559-1-ND	Quad 2-1 Data Selector/Multiplexer	16-TSSOP	.55	.44	.33
SN74AHC158PWR	296-4559-2-ND	Quad 2-1 Data Selector/Multiplexer	16-TSSOP	308.00/2,000		
SN74AHC174D	296-1467-5-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.45	.36	.27
SN74AHC174DBR	296-4578-1-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	.55	.44	.33
SN74AHC174DBR	296-4578-2-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	308.00/2,000		
SN74AHC174N	296-1468-5-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.50	.40	.30
SN74AHC174PWR	296-12739-1-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	.55	.44	.33
SN74AHC174PWR	296-12739-2-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	308.00/2,000		
SN74AHC240DBR	296-4579-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74AHC240DBR	296-4579-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74AHC240DGVR	296-12858-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.60	.45	.34
SN74AHC240DGVR	296-12858-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	400.00/2,000		
SN74AHC240DW	296-4580-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.55	.44	.33
SN74AHC240DWR	296-4580-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.55	.44	.33
SN74AHC240DWR	296-4580-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	308.00/2,000		
SN74AHC240N	296-4581-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74AHC240PWR	296-4582-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.55	.44	.33
SN74AHC240PWR	296-4582-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	308.00/2,000		
SN74AHC244DBR	296-4583-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74AHC244DBR	296-4583-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74AHC244DGVR	296-4584-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.60	.45	.34
SN74AHC244DGVR	296-4584-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	400.00/2,000		
SN74AHC244DW	296-1096-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.55	.44	.33
SN74AHC244DWR	296-1096-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.44	.36	.27
SN74AHC244DWR	296-1096-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	246.00/2,000		
SN74AHC244MDWREP	296-22268-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	2.10	1.68	1.26
SN74AHC244MDWREP	296-22268-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	2184.00/2,000		
SN74AHC244MPWREP	296-22269-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	2.10	1.68	1.26
SN74AHC244MPWREP	296-22269-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	2184.00/2,000		
SN74AHC244N	296-4585-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74AHC244PWR	296-1097-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.44	.36	.27
SN74AHC244PWR	296-1097-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	246.00/2,000		
SN74AHC244QDWRQ1	296-17495-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.70	.53	.40
SN74AHC244QDWRQ1	296-17495-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	468.00/2,000		
SN74AHC244QPWR	296-17013-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.96	.72	.54
SN74AHC244QPWR	296-17013-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	638.00/2,000		
SN74AHC245DBR	296-4586-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.48	.36	.27
SN74AHC245DBR	296-4586-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	320.00/2,000		
SN74AHC245DGVR	296-4587-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.53	.40	.30
SN74AHC245DGVR	296-4587-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	352.00/2,000		
SN74AHC245DW	296-4588-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.55	.44	.33
SN74AHC245MDWREP	296-22270-1-ND	Tri-State Octal Bus Transceiver ***NEW!***	20-SOIC	1.68	1.34	1.01
SN74AHC245MDWREP	296-22270-2-ND	Tri-State Octal Bus Transceiver ***NEW!***	20-SOIC	1742.00/2,000		
SN74AHC245MPWREP	296-21808-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1.68	1.34	1.01
SN74AHC245MPWREP	296-21808-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1742.00/2,000		
SN74AHC245N	296-4589-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.56	.42	.32
SN74AHC245NSR	296-13135-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.57	.43	.33
SN74AHC245NSR	296-13135-2-ND	Tri-State Octal Bus Transceiver	20-SOP	380.00/2,000		
SN74AHC245PWR	296-1098-1-ND	Tri-State Octal Transceiver	20-TSSOP	.47	.38	.29
SN74AHC245PWR	296-1098-2-ND	Tri-State Octal Transceiver	20-TSSOP	264.00/2,000		
SN74AHC273DBR	296-4590-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.56	.42	.32
SN74AHC273DBR	296-4590-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	372.00/2,000		
SN74AHC273DGVR	296-4591-1-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP	.60	.45	.34
SN74AHC273DGVR	296-4591-2-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP	400.00/2,000		
SN74AHC273DW	296-1470-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.55	.44	.33
SN74AHC273DWR	296-1470-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.55	.44	.33
SN74AHC273DWR	296-1470-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	308.00/2,000		
SN74AHC273N	296-1471-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.56	.42	.32
SN74AHC273PWR	296-4592-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.55	.44	.33
SN74AHC273PWR	296-4592-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	308.00/2,000		
SN74AHC367DR	296-4597-1-ND	Tri-State Hex Buffer/Driver	16-SOIC	.55	.44	.33
SN74AHC367DR	296-4597-2-ND	Tri-State Hex Buffer/Driver	16-SOIC	372.50/2,500		
SN74AHC373DBR	296-4598-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.60	.45	.34
SN74AHC373DBR	296-4598-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	400.00/2,000		
SN74AHC373DGVT	296-17111-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.66	.50	.38
SN74AHC373DGVT	296-17111-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	438.00/2,000		
SN74AHC373DW	296-4599-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.55	.44	.33
SN74AHC373N	296-4600-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.56	.42	.32
SN74AHC373NSR	296-13137-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOP	.60	.45	.34
SN74AHC373NSR	296-13137-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOP	400.00/2,000		
SN74AHC373PWR	296-1100-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.55	.44	.33
SN74AHC373PWR	296-1100-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	308.00/2,000		
SN74AHC374DBR	296-1101-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74AHC374DBR	296-1101-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	400.00/2,000		
SN74AHC374DGVR	296-4601-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.60	.45	.34
SN74AHC374DGVR	296-4601-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	400.00/2,000		
SN74AHC374DWR	296-4602-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.55	.44	.33
SN74AHC374DWR	296-4602-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	308.00/2,000		
SN74AHC374N	296-4603-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.56	.42	.32
SN74AHC374PWR	296-1102-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.55	.44	.33
SN74AHC374PWR	296-1102-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	308.00/2,000		
SN74AHC540DBR	296-4604-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.56	.42	.32
SN74AHC540DBR	296-4604-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	372.00/2,000		
SN74AHC540DW	296-4605-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74AHC540DWR	296-4605-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74AHC540DWR	296-4605-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	320.00/2,000		
SN74AHC540N	296-4606-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74AHC540PWR	296-4607-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.48	.36	.27
SN74AHC540PWR	296-4607-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	320.00/2,000		
SN74AHC541DBR	296-4608-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.56	.42	.32
SN74AHC541DBR	296-4608-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	372.00/2,000		
SN74AHC541DGVR	296-12740-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.56	.42	.32
SN74AHC541DGVR	296-12740-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	372.00/2,000		
SN74AHC541DWR	296-4609-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74AHC541DWR	296-4609-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	320.00/2,000		
SN74AHC541N	296-4610-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74AHC541NSR	296-13138-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.56	.42	.32
SN74AHC541NSR	296-13138-2-ND	Tri-State Octal Buffer/Driver	20-SOP	372.00/2,000		
SN74AHC541PWR	296-1103-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.48	.36	.27
SN74AHC541PWR	296-1103-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	320.00/2,000		
SN74AHC541QPWRQ1	296-19592-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.66	.50	.37
SN74AHC541QPWRQ1	296-19592-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	436.00/2,000		
SN74AHC573DBR	296-4611-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.60	.45	.34
SN74AHC573DBR	296-4611-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	400.00/2,000		
SN74AHC573DGVR	296-13818-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.60	.45	.34
SN74AHC573DGVR	296-13818-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	400.00/2,000		
SN74AHC573DW	296-4612-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.55	.44	.33
SN74AHC573DWR	296-4612-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.47	.38	.29
SN74AHC573DWR	296-4612-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	264.00/2,000		
SN74AHC573N	296-4613-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.56	.42	.32
SN74AHC573PWR	296-1104-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.55	.44	.33
SN74AHC573PWR	296-1104-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	308.00/2,000		
SN74AHC574DBR	296-4614-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74AHC574DBR	296-4614-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	400.00/2,000		
SN74AHC574DWR	296-4615-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.55	.44	.33
SN74AHC574DWR	296-4615-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	308.00/2,000		
SN74AHC574N	296-4616-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.56	.42	.32
SN74AHC574PWR	296-4617-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.44	.36	.27

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHC574PWR	296-4617-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	246.00/2,000		
SN74AHC594D	296-15394-5-ND	8-Bit Shift Register	16-SOIC	.55	.44	.33
SN74AHC594PW	296-23235-5-ND	8-Bit Shift Register ***NEW!***	16-TSSOP	.48	.36	.27
SN74AHC595D	296-4618-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.55	.44	.33
SN74AHC595N	296-4619-5-ND	Tri-State 8-Bit Shift Register	16-Dip	.56	.42	.32
SN74AHC595PWR	296-4620-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.48	.36	.27
SN74AHC595PWR	296-4620-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	320.00/2,000		
SN74AHC4066DGVR	296-17112-1-ND	Quad Bilateral Analog Switch	14-TVSOP	.48	.36	.27
SN74AHC4066DGVR	296-17112-2-ND	Quad Bilateral Analog Switch	14-TVSOP	320.00/2,000		
SN74AHC4066DR	296-15256-1-ND	Quad Bilateral Analog Switch	14-SOIC	.55	.44	.33
SN74AHC4066DR	296-15256-2-ND	Quad Bilateral Analog Switch	14-SOIC	372.50/2,500		
SN74AHC4066PWR	296-15257-1-ND	Quad Bilateral Analog Switch	14-TSSOP	.55	.44	.33
SN74AHC4066PWR	296-15257-2-ND	Quad Bilateral Analog Switch	14-TSSOP	308.00/2,000		
SN74AHC4066RGYR	296-15258-1-ND	Quad Bilateral Analog Switch	14-QFN	.84	.70	.56
SN74AHC4066RGYR	296-15258-2-ND	Quad Bilateral Analog Switch	14-QFN	372.00/1,000		
SN74AHC16240DGGR	296-4560-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.38	1.15	.92
SN74AHC16240DGGR	296-4560-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1224.00/2,000		
SN74AHC16240DGVR	296-4561-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.38	1.15	.92
SN74AHC16240DGVR	296-4561-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1224.00/2,000		
SN74AHC16240DL	296-4562-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.38	1.15	.92
SN74AHC16244DGGR	296-4563-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.38	1.15	.92
SN74AHC16244DGGR	296-4563-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1224.00/2,000		
SN74AHC16244DGVR	296-4564-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.38	1.15	.92
SN74AHC16244DGVR	296-4564-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1224.00/2,000		
SN74AHC16244DL	296-4565-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.38	1.15	.92
SN74AHC16373DGGR	296-4566-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.38	1.15	.92
SN74AHC16373DGGR	296-4566-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1224.00/2,000		
SN74AHC16373DGVR	296-4567-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1.38	1.15	.92
SN74AHC16373DGVR	296-4567-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1224.00/2,000		
SN74AHC16373DL	296-4568-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.38	1.15	.92
SN74AHC16373DLR	296-4568-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.38	1.15	.92
SN74AHC16373DLR	296-4568-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	612.00/1,000		
SN74AHC16374DGGR	296-4569-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.38	1.15	.92
SN74AHC16374DGGR	296-4569-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1224.00/2,000		
SN74AHC16374DGVR	296-4570-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1.38	1.15	.92
SN74AHC16374DGVR	296-4570-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1224.00/2,000		
SN74AHC16374DL	296-4571-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.38	1.15	.92
SN74AHC16540DGGR	296-4572-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.38	1.15	.92
SN74AHC16540DGGR	296-4572-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1224.00/2,000		
SN74AHC16540DGVR	296-4573-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.38	1.15	.92
SN74AHC16540DGVR	296-4573-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1224.00/2,000		
SN74AHC16540DL	296-4574-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.38	1.15	.92
SN74AHC16541DGGR	296-4575-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.38	1.15	.92
SN74AHC16541DGGR	296-4575-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1224.00/2,000		
SN74AHC16541DGVR	296-4576-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.38	1.15	.92
SN74AHC16541DGVR	296-4576-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1224.00/2,000		
SN74AHC16541DL	296-4577-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.38	1.15	.92

AHCT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CAHCT1G32QDBVRQ1	296-23141-1-ND	Single 2-Input OR Gate ***NEW!***	SOT-23-5	.46	.37	.26
CAHCT1G32QDBVRQ1	296-23141-2-ND	Single 2-Input OR Gate ***NEW!***	SOT-23-5	357.00/3,000		
SN74AHCT00D	296-4629-5-ND	Quad 2-Input NAND Gate	14-SOIC	.39	.32	.22
SN74AHCT00DR	296-4629-1-ND	Quad 2-Input NAND Gate	14-SOIC	.39	.32	.22
SN74AHCT00DR	296-4629-2-ND	Quad 2-Input NAND Gate	14-SOIC	255.00/2,500		
SN74AHCT00DBR	296-4630-1-ND	Quad 2-Input NAND Gate	14-SSOP	.46	.37	.26
SN74AHCT00DBR	296-4630-2-ND	Quad 2-Input NAND Gate	14-SSOP	252.00/2,000		
SN74AHCT00DGVR	296-4631-1-ND	Quad 2-Input NAND Gate	14-TVSOP	.50	.41	.28
SN74AHCT00DGVR	296-4631-2-ND	Quad 2-Input NAND Gate	14-TVSOP	278.00/2,000		
SN74AHCT00MDREP	296-22275-1-ND	Quad 2-Input NAND Gate ***NEW!***	14-SOIC	1.17	.98	.78
SN74AHCT00MDREP	296-22275-2-ND	Quad 2-Input NAND Gate ***NEW!***	14-SOIC	1267.50/2,500		
SN74AHCT00MPWREP	296-22276-1-ND	Quad 2-Input NAND Gate ***NEW!***	14-TSSOP	1.17	.98	.78
SN74AHCT00MPWREP	296-22276-2-ND	Quad 2-Input NAND Gate ***NEW!***	14-TSSOP	1038.00/2,000		
SN74AHCT00N	296-4632-5-ND	Quad 2-Input NAND Gate	14-Dip	.50	.40	.30
SN74AHCT00PWR	296-4633-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.39	.32	.22
SN74AHCT00PWR	296-4633-2-ND	Quad 2-Input NAND Gate	14-TSSOP	216.00/2,000		
SN74AHCT00QDRQ1	296-14349-1-ND	Quad 2-Input NAND Gate	14-SOIC	.60	.45	.34
SN74AHCT00QDRQ1	296-14349-2-ND	Quad 2-Input NAND Gate	14-SOIC	487.50/2,500		
SN74AHCT00QPWRQ1	296-13864-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.60	.45	.34
SN74AHCT00QPWRQ1	296-13864-2-ND	Quad 2-Input NAND Gate	14-TSSOP	400.00/2,000		
SN74AHCT00RGYR	296-13906-1-ND	Quad 2-Input NAND Gate	14-QFN	.55	.44	.33
SN74AHCT00RGYR	296-13906-2-ND	Quad 2-Input NAND Gate	14-QFN	154.00/1,000		
SN74AHCT02D	296-4634-5-ND	Quad 2-Input NOR Gate	14-SOIC	.39	.32	.22
SN74AHCT02DR	296-4635-1-ND	Quad 2-Input NOR Gate	14-SOIC	.39	.32	.22
SN74AHCT02DR	296-4635-2-ND	Quad 2-Input NOR Gate	14-SOIC	255.00/2,500		
SN74AHCT02DBR	296-4636-1-ND	Quad 2-Input NOR Gate	14-SSOP	.46	.37	.26
SN74AHCT02DBR	296-4636-2-ND	Quad 2-Input NOR Gate	14-SSOP	252.00/2,000		
SN74AHCT02DGVR	296-4637-1-ND	Quad 2-Input NOR Gate	14-TVSOP	.50	.41	.28
SN74AHCT02DGVR	296-4637-2-ND	Quad 2-Input NOR Gate	14-TVSOP	278.00/2,000		
SN74AHCT02N	296-4638-5-ND	Quad 2-Input NOR Gate	14-Dip	.50	.40	.30
SN74AHCT02PWR	296-4639-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.39	.32	.22
SN74AHCT02PWR	296-4639-2-ND	Quad 2-Input NOR Gate	14-TSSOP	216.00/2,000		
SN74AHCT02RGYR	296-13907-1-ND	Quad 2-Input NOR Gate	14-QFN	.55	.44	.33
SN74AHCT02RGYR	296-13907-2-ND	Quad 2-Input NOR Gate	14-QFN	154.00/1,000		
SN74AHCT04DBR	296-4640-1-ND	Hex Inverter	14-SSOP	.46	.37	.26
SN74AHCT04DBR	296-4640-2-ND	Hex Inverter	14-SSOP	252.00/2,000		
SN74AHCT04DGVR	296-4641-1-ND	Hex Inverter	14-TVSOP	.50	.41	.28
SN74AHCT04DGVR	296-4641-2-ND	Hex Inverter	14-TVSOP	278.00/2,000		
SN74AHCT04DR	296-4642-1-ND	Hex Inverter	14-SOIC	.39	.32	.22
SN74AHCT04DR	296-4642-2-ND	Hex Inverter	14-SOIC	255.00/2,500		
SN74AHCT04N	296-4643-5-ND	Hex Inverter	14-Dip	.50	.40	.30
SN74AHCT04NSR	296-13139-1-ND	Hex Inverter	14-SOP	.46	.37	.26
SN74AHCT04NSR	296-13139-2-ND	Hex Inverter	14-SOP	252.00/2,000		
SN74AHCT04PWR	296-1106-1-ND	Hex Inverter	14-TSSOP	.39	.32	.22
SN74AHCT04PWR	296-1106-2-ND	Hex Inverter	14-TSSOP	216.00/2,000		
SN74AHCT04RGYR	296-13908-1-ND	Hex Inverter	14-QFN	.55	.44	.33
SN74AHCT04RGYR	296-13908-2-ND	Hex Inverter	14-QFN	154.00/1,000		
SN74AHCT08D	296-4644-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.39	.32	.22
SN74AHCT08DR	296-4644-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.39	.32	.22
SN74AHCT08DR	296-4644-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	255.00/2,500		
SN74AHCT08DBR	296-4645-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.46	.37	.26
SN74AHCT08DBR	296-4645-2-ND	Quad 2-Input Positive AND Gate	14-SSOP	252.00/2,000		
SN74AHCT08DGVR	296-4646-1-ND	Quad 2-Input Positive AND Gate	14-TVSOP	.50	.41	.28
SN74AHCT08DGVR	296-4646-2-ND	Quad 2-Input Positive AND Gate	14-TVSOP	278.00/2,000		
SN74AHCT08MDREP	296-22277-1-ND	Quad 2-In. Positive AND Gate ***NEW!***	14-SOIC	1.17	.98	.78
SN74AHCT08MDREP	296-22277-2-ND	Quad 2-In. Positive AND Gate ***NEW!***	14-SOIC	1267.50/2,500		
SN74AHCT08MPWREP	296-22278-1-ND	Quad 2-In. Positive AND Gate ***NEW!***	14-TSSOP	1.17	.98	.78
SN74AHCT08MPWREP	296-22278-2-ND	Quad 2-In. Positive AND Gate ***NEW!***	14-TSSOP	1038.00/2,000		
SN74AHCT08N	296-4647-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.50	.40	.30
SN74AHCT08NSR	296-13140-1-ND	Quad 2-Input Positive AND Gate	14-SOP	.46	.37	.26
SN74AHCT08NSR	296-13140-2-ND	Quad 2-Input Positive AND Gate	14-SOP	252.00/2,000		
SN74AHCT08PWR	296-1107-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.39	.32	.22
SN74AHCT08PWR	296-1107-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	216.00/2,000		
SN74AHCT08QDRQ1	296-18292-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.60	.45	.34
SN74AHCT08QDRQ1	296-18292-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	487.50/2,500		
SN74AHCT08QPWRQ1	296-18535-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.60	.45	.34
SN74AHCT08QPWRQ1	296-18535-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	400.00/2,000		
SN74AHCT08RGYR	296-13909-1-ND	Quad 2-Input Positive AND Gate	14-QFN	.55	.44	.33
SN74AHCT08RGYR	296-13909-2-ND	Quad 2-Input Positive AND Gate	14-QFN	154.00/1,000		
SN74AHCT14D	296-1474-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.39	.32	.22
SN74AHCT14DR	296-1474-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.39	.32	.22
SN74AHCT14DR	296-1474-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	255.00/2,500		
SN74AHCT14DBR	296-4672-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.46	.37	.26
SN74AHCT14DBR	296-4672-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	252.00/2,000		
SN74AHCT14DGVR	296-4673-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.50	.41	.28
SN74AHCT14DGVR	296-4673-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	278.00/2,000		
SN74AHCT14MDREP	296-22283-1-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-SOIC	1.17	.98	.78
SN74AHCT14MDREP	296-22283-2-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-SOIC	1267.50/2,500		
SN74AHCT14MPWREP	296-22284-1-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-TSSOP	1.17	.98	.78
SN74AHCT14MPWREP	296-22284-2-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-TSSOP	1038.00/2,000		
SN74AHCT14N	296-4674-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.50	.40	.30
SN74AHCT14NSR	296-13142-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	.46	.37	.26
SN74AHCT14NSR	296-13142-2-ND	Hex Schmitt-Trigger Inverter	14-SOP	252.00/2,000		
SN74AHCT14PWR	296-1110-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.39	.32	.22
SN74AHCT14PWR	296-1110-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	216.00/2,000		
SN74AHCT14QDRQ1	296-18293-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.60	.45	.34
SN74AHCT14QDRQ1	296-18293-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	487.50/2,500		
SN74AHCT14QPWRQ1	296-13654-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.60	.45	.34
SN74AHCT14QPWRQ1	296-13654-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	400.00/2,000		
SN74AHCT14RGYR	296-13912-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.55	.44	.33
SN74AHCT14RGYR	296-13912-2-ND	Hex Schmitt-Trigger Inverter	14-QFN	154.00/1,000		
SN74AHCT32D	296-4728-5-ND	Quad 2-Input Positive OR Gate	14-SOIC	.39	.32	.22
SN74AHCT32DBR	296-4729-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.46	.37	.26
SN74AHCT32DBR	296-4729-2-ND	Quad 2-Input Positive OR Gate	14-SSOP	252.00/2,000		
SN74AHCT32DGVR	296-4730-1-ND	Quad 2-Input Positive OR Gate	14-TVSOP	.50	.41	.28
SN74AHCT32DGVR	296-4730-2-ND	Quad 2-Input Positive OR Gate	14-TVSOP	278.00/2,000		
SN74AHCT32DR	296-4731-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.39	.32	.22
SN74AHCT32DR	296-4731-2-ND	Quad 2-Input Positive OR Gate	14-SOIC	255.00/2,500		
SN74AHCT32MDREP	296-22287-1-ND	Quad 2-In. Positive OR Gate ***NEW!***	14-SOIC	1.17	.98	.78
SN74AHCT32MDREP	296-22287-2-ND	Quad 2-In. Positive OR Gate ***NEW!***	14-SOIC	1267.50/2,500		
SN74AHCT32MPWREP	296-22288-1-ND	Quad 2-In. Positive OR Gate ***NEW!***	14-TSSOP	1.17	.98	.78
SN74AHCT32MPWREP	296-22288-2-ND	Quad 2-In. Positive OR Gate ***NEW!***	14-TSSOP	1038.00/2,000		
SN74AHCT32N	296-4732-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.50	.40	.30
SN74AHCT32NSR	296-13144-1-ND	Quad 2-Input Positive OR Gate	14-SOP	.46	.37	.26
SN74AHCT32NSR	296-13144-2-ND	Quad 2-Input Positive OR Gate	14-SOP	252.00/2,000		
SN74AHCT32PWR	296-1119-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.39	.32	.22
SN74AHCT32PWR	296-1119-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	216.00/2,000		
SN74AHCT32QPWRQ1	296-18537-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.41	.33	.25
SN74AHCT32QPWRQ1	296-18537-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	230.00/2,000		
SN74AHCT32RGYR	296-13913-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.55	.44	.33
SN74AHCT32RGYR	296-13913-2-ND	Quad 2-Input Positive OR Gate	14-QFN	154.00/1,000		
SN74AHCT74D	296-4769-5-ND	Dual D-Type Flip-Flop with Clear/Preset	14-SOIC	.39	.32	.22
SN74AHCT74DBR	296-4770-1-ND	Dual D-Type Flip-Flop with Clear/Preset	14-SSOP	.46	.37	.26
SN74AHCT74DBR	296-4770-2-ND	Dual D-Type Flip-Flop with Clear/Preset	14-SSOP	252.00/2,000		
SN74AHCT74DGVR	296-4771-1-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TVSOP	.50	.41	.28
SN74AHCT74DGVR	296-4771-2-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TVSOP	278.00/2,000		
SN74AHCT74DR	296-14704-1-ND	Dual D-Type Flip-Flop with Clear/Preset	14-SOIC	.39	.32	.22
SN74AHCT74DR	296-14704-2-ND	Dual D-Type Flip-Flop with Clear/Preset	14-SOIC	255.00/2,500		
SN74AHCT74MDREP	296-22289-1-ND	Dual D-Type Flip-Flop with Clear/Preset ***NEW!***	14-SOIC	1.17	.98	.78
SN74AHCT74MDREP	296-22289-2-ND	Dual D-Type Flip-Flop with Clear/Preset ***NEW!***	14-SOIC	1267.50/2,500		
SN74AHCT74MPWREP	296-22541-1-ND	Dual D-Type Flip-Flop with Clear/Preset ***NEW!***	14-TSSOP	1.17	.98	.78
SN74AHCT74MPWREP	296-22541-2-ND	Dual D-Type Flip-Flop with Clear/Preset ***NEW!***	14-TSSOP	1038.00/2,000		
SN74AHCT74N	296-4772-5-ND	Dual D-Type Flip-Flop with Clear/Preset	14-Dip	.50	.40	.30
SN74AHCT74PWR	296-4773-1-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TSSOP	.46	.37	.26
SN74AHCT74PWR	296-4773-2-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TSSOP	252.00/2,000		
SN74AHCT74RGYR	296-13914-1-ND	Dual D-Type Flip-Flop with Clear/Preset	14-QFN	.48	.36	.27
SN74AHCT74RGYR	296-13914-2-ND	Dual D-Type Flip-Flop with Clear/Preset	14-QFN	160.00/1,000		
SN74AHCT86DBR	296-4774-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.46	.37	.26
SN74AHCT86DBR	296-4774-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	252.00/2,000		
SN74AHCT86DGVR	296-4775-1-ND	Quad 2-Input Exclusive OR Gate	14-TVSOP	.44	.36	.27
SN74AHCT86DGVR	296-4775-2-ND	Quad 2-Input Exclusive OR Gate	14-TVSOP	246.00/2,000		
SN74AHCT86DR	296-4776-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.49	.40	.27
SN74AHCT86DR	296-4776-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	320.00/2,500		
SN74AHCT86N	296-4777-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.50	.40	.30
SN74AHCT86PWR	296-4778-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.40	.32	.24
SN74AHCT86PWR	296-4778-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	224.00/2,000		
SN74AHCT86RGYR	296-13915-1-ND	Quad 2-Input Exclusive OR Gate	14-QFN	.48	.36	.27
SN74AHCT86RGYR	296-13915-2-ND	Quad 2-Input Exclusive OR Gate	14-QFN	160.00/1,000		
SN74AHCT123ADBR	296-4648-1-ND	Dual Retrig. Mono Multivibrator	16-SSOP	.55	.44	.33
SN74AHCT123ADBR	296-4648-2-ND	Dual Retrig. Mono Multivibrator	16-SSOP	308.00/2,000		
SN74AHCT123ADGVR	296-4649-1-ND	Dual Retrig. Mono Multivibrator	16-TVSOP	.48	.36	.27
SN74AHCT123ADGVR	296-4649-2-ND	Dual Retrig. Mono Multivibrator	16-TVSOP	320.00/2,000		
SN74AHCT123ADR	296-4650-1-ND	Dual Retrig. Mono Multivibrator	16-SOIC	.45	.36	.27
SN74AHCT123ADR	296-4650-2-ND	Dual Retrig. Mono Multivibrator	16-SOIC	305.00/2,500		
SN74AHCT123APWR	296-4651-1-ND	Dual Retrig. Mono Multivibrator	16-TSSOP	.42	.34	.25
SN74AHCT123APWR	296-4651-2-ND	Dual Retrig. Mono Multivibrator	16-TSSOP	232.00/2,000		
SN74AHCT125D	296-4652-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.45	.36	.27
SN74AHCT125DR	296-4652-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.42	.34	.25
SN74AHCT125DR	296-4652-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	280.00/2,500		
SN74AHCT125DBR	296-4653-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74AHCT125DBR	296-4653-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	308.00/2,000		
SN74AHCT125DGVR	296-4654-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.55	.44	.33
SN74AHCT125DGVR	296-4654-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	308.00/2,000		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHCT125N	296-4655-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.50	.40	.30
SN74AHCT125PWR	296-1108-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.47	.38	.29
SN74AHCT125PWR	296-1108-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	264.00/2,000		
SN74AHCT125QDREP	296-22279-1-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-SOIC	.99	.83	.66
SN74AHCT125QDREP	296-22279-2-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-SOIC	1072.50/2,500		
SN74AHCT125QPWREP	296-20769-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.99	.83	.66
SN74AHCT125QPWREP	296-20769-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	878.00/2,000		
SN74AHCT125QPWRQ1	296-16700-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.85	.69	.47
SN74AHCT125QPWRQ1	296-16700-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	468.00/2,000		
SN74AHCT125RGYR	296-13910-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.48	.36	.27
SN74AHCT125RGYR	296-13910-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	160.00/1,000		
SN74AHCT126DBR	296-4656-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74AHCT126DBR	296-4656-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	308.00/2,000		
SN74AHCT126DGVR	296-4657-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.55	.44	.33
SN74AHCT126DGVR	296-4657-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	308.00/2,000		
SN74AHCT126DR	296-4658-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.45	.36	.27
SN74AHCT126DR	296-4658-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	305.00/2,500		
SN74AHCT126N	296-4659-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.50	.40	.30
SN74AHCT126PWR	296-4660-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.50	.40	.30
SN74AHCT126PWR	296-4660-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	280.00/2,000		
SN74AHCT126QDREP	296-22280-1-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-SOIC	.99	.83	.66
SN74AHCT126QDREP	296-22280-2-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-SOIC	1072.50/2,500		
SN74AHCT126QDRQ1	296-17134-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.85	.69	.47
SN74AHCT126QDRQ1	296-17134-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	552.50/2,500		
SN74AHCT126QPWREP	296-22281-1-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-TSSOP	.99	.83	.66
SN74AHCT126QPWREP	296-22281-2-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-TSSOP	878.00/2,000		
SN74AHCT132D	296-1472-5-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-SOIC	.45	.36	.27
SN74AHCT132DBR	296-4661-1-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-SSOP	.55	.44	.33
SN74AHCT132DBR	296-4661-2-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-SSOP	308.00/2,000		
SN74AHCT132N	296-1473-5-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-Dip	.50	.40	.30
SN74AHCT132NSR	296-13141-1-ND	Quad Positive NAND Gate with Schmitt-Trigger Input	14-SOP	.55	.44	.33
SN74AHCT132NSR	296-13141-2-ND	Quad Positive NAND Gate with Schmitt-Trigger Input	14-SOP	308.00/2,000		
SN74AHCT132PWR	296-4662-1-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-TSSOP	.50	.40	.30
SN74AHCT132PWR	296-4662-2-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-TSSOP	280.00/2,000		
SN74AHCT138D	296-4663-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.45	.36	.27
SN74AHCT138DBR	296-4664-1-ND	3-8 Line Decoder/Demultiplexer	16-SSOP	.55	.44	.33
SN74AHCT138DBR	296-4664-2-ND	3-8 Line Decoder/Demultiplexer	16-SSOP	308.00/2,000		
SN74AHCT138DGVR	296-4665-1-ND	3-8 Line Decoder/Demultiplexer	16-TVSOP	.55	.44	.33
SN74AHCT138DGVR	296-4665-2-ND	3-8 Line Decoder/Demultiplexer	16-TVSOP	308.00/2,000		
SN74AHCT138DR	296-14701-1-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.45	.36	.27
SN74AHCT138DR	296-14701-2-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	305.00/2,500		
SN74AHCT138MDREP	296-22282-1-ND	3-8 Line Decoder/Demux ***NEW!***	16-SOIC	1.55	1.24	.93
SN74AHCT138MDREP	296-22282-2-ND	3-8 Line Decoder/Demux ***NEW!***	16-SOIC	1985.00/2,500		
SN74AHCT138MPWREP	296-22540-1-ND	3-8 Line Decoder/Demux ***NEW!***	16-TSSOP	1.55	1.24	.93
SN74AHCT138MPWREP	296-22540-2-ND	3-8 Line Decoder/Demux ***NEW!***	16-TSSOP	1612.00/2,000		
SN74AHCT138N	296-4666-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.50	.40	.30
SN74AHCT138PWR	296-1109-1-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	.50	.41	.28
SN74AHCT138PWR	296-1109-2-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	278.00/2,000		
SN74AHCT138RGYR	296-13911-1-ND	3-8 Line Decoder/Demultiplexer	16-QFN	.56	.42	.32
SN74AHCT138RGYR	296-13911-2-ND	3-8 Line Decoder/Demultiplexer	16-QFN	186.00/1,000		
SN74AHCT139D	296-4667-5-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.45	.36	.27
SN74AHCT139DBR	296-4668-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	.55	.44	.33
SN74AHCT139DBR	296-4668-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	308.00/2,000		
SN74AHCT139DGVR	296-4669-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	.55	.44	.33
SN74AHCT139DGVR	296-4669-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	308.00/2,000		
SN74AHCT139DR	296-14702-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.45	.36	.27
SN74AHCT139DR	296-14702-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	305.00/2,500		
SN74AHCT139N	296-4670-5-ND	Dual 2-4 Decoder/Demultiplexer	16-Dip	.50	.40	.30
SN74AHCT139PWR	296-4671-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	.50	.40	.30
SN74AHCT139PWR	296-4671-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	280.00/2,000		
SN74AHCT157D	296-4675-5-ND	Quad 2-to-1 Data Selector/Mux	16-SOIC	.45	.36	.27
SN74AHCT157DBR	296-4676-1-ND	Quad 2-to-1 Data Selector/Mux	16-SSOP	.48	.36	.27
SN74AHCT157DBR	296-4676-2-ND	Quad 2-to-1 Data Selector/Mux	16-SSOP	320.00/2,000		
SN74AHCT157DGVR	296-4677-1-ND	Quad 2-to-1 Data Selector/Mux	16-TVSOP	.48	.36	.27
SN74AHCT157DGVR	296-4677-2-ND	Quad 2-to-1 Data Selector/Mux	16-TVSOP	320.00/2,000		
SN74AHCT157DR	296-14703-1-ND	Quad 2-to-1 Data Selector/Mux	16-SOIC	.45	.36	.27
SN74AHCT157DR	296-14703-2-ND	Quad 2-to-1 Data Selector/Mux	16-SOIC	305.00/2,500		
SN74AHCT157PWR	296-4678-1-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP	.50	.40	.30
SN74AHCT157PWR	296-4678-2-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP	280.00/2,000		
SN74AHCT158D	296-4679-5-ND	Quad 2-to-1 Data Selector/Mux	16-SOIC	.50	.40	.30
SN74AHCT158PWR	296-4680-1-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP	.55	.44	.33
SN74AHCT158PWR	296-4680-2-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP	308.00/2,000		
SN74AHCT174D	296-1475-5-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.45	.36	.27
SN74AHCT174DBR	296-4702-1-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	.72	.54	.41
SN74AHCT174DBR	296-4702-2-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	478.00/2,000		
SN74AHCT174PWR	296-23236-1-ND	Hex D-Type Flip-Flop w/Clear ***NEW!***	16-TSSOP	.50	.40	.30
SN74AHCT174PWR	296-23236-2-ND	Hex D-Type Flip-Flop w/Clear ***NEW!***	16-TSSOP	280.00/2,000		
SN74AHCT240DBR	296-4716-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74AHCT240DBR	296-4716-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74AHCT240DWR	296-4717-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.55	.44	.33
SN74AHCT240DWR	296-4717-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	308.00/2,000		
SN74AHCT240N	296-4718-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74AHCT240NSR	296-13444-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.60	.45	.34
SN74AHCT240NSR	296-13444-2-ND	Tri-State Octal Buffer/Driver	20-SOP	400.00/2,000		
SN74AHCT240PWR	296-4719-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.55	.44	.33
SN74AHCT240PWR	296-4719-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	308.00/2,000		
SN74AHCT244DBR	296-4720-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74AHCT244DBR	296-4720-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74AHCT244DGVR	296-4721-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.60	.45	.34
SN74AHCT244DGVR	296-4721-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	400.00/2,000		
SN74AHCT244DW	296-4722-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.44	.36	.27
SN74AHCT244DWR	296-4722-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.55	.44	.33
SN74AHCT244DWR	296-4722-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	308.00/2,000		
SN74AHCT244MDWREP	296-22285-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	2.10	1.68	1.26
SN74AHCT244MDWREP	296-22285-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	2184.00/2,000		
SN74AHCT244MPWREP	296-22286-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	2.10	1.68	1.26
SN74AHCT244MPWREP	296-22286-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	2184.00/2,000		
SN74AHCT244N	296-4723-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74AHCT244NSR	296-13143-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.60	.45	.34
SN74AHCT244NSR	296-13143-2-ND	Tri-State Octal Buffer/Driver	20-SOP	400.00/2,000		
SN74AHCT244PWR	296-1116-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.44	.36	.27
SN74AHCT244PWR	296-1116-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	246.00/2,000		
SN74AHCT244QPWR	296-13865-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.88	.66	.50
SN74AHCT244QPWR	296-13865-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	586.00/2,000		
SN74AHCT245DBR	296-4724-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.60	.45	.34
SN74AHCT245DBR	296-4724-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	400.00/2,000		
SN74AHCT245DGVR	296-4725-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.60	.45	.34
SN74AHCT245DGVR	296-4725-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	400.00/2,000		
SN74AHCT245DW	296-1117-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.55	.44	.33
SN74AHCT245DWR	296-1117-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.55	.44	.33
SN74AHCT245DWR	296-1117-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	308.00/2,000		
SN74AHCT245N	296-1476-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.56	.42	.32
SN74AHCT245PWR	296-1118-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.44	.36	.27
SN74AHCT245PWR	296-1118-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	246.00/2,000		
SN74AHCT245RGYR	296-18536-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.60	.45	.34
SN74AHCT245RGYR	296-18536-2-ND	Tri-State Octal Bus Transceiver	20-QFN	200.00/1,000		
SN74AHCT273DBR	296-4726-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.60	.45	.34
SN74AHCT273DBR	296-4726-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	400.00/2,000		
SN74AHCT273DW	296-13489-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.55	.44	.33
SN74AHCT273PWR	296-4727-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.50	.40	.30
SN74AHCT273PWR	296-4727-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	278.00/2,000		
SN74AHCT367DBR	296-4733-1-ND	Tri-State Hex Buffer/Driver	16-SSOP	1.05	.88	.70
SN74AHCT367DBR	296-4733-2-ND	Tri-State Hex Buffer/Driver	16-SSOP	932.00/2,000		
SN74AHCT367DGVR	296-4734-1-ND	Tri-State Hex Buffer/Driver	16-TVSOP	1.05	.88	.70
SN74AHCT367DGVR	296-4734-2-ND	Tri-State Hex Buffer/Driver	16-TVSOP	932.00/2,000		
SN74AHCT367DR	296-4735-1-ND	Tri-State Hex Buffer/Driver	16-SOIC	.55	.44	.33
SN74AHCT367DR	296-4735-2-ND	Tri-State Hex Buffer/Driver	16-SOIC	372.50/2,500		
SN74AHCT367PWR	296-4736-1-ND	Tri-State Hex Buffer/Driver	16-TSSOP	.48	.36	.27
SN74AHCT367PWR	296-4736-2-ND	Tri-State Hex Buffer/Driver	16-TSSOP	320.00/2,000		
SN74AHCT373DBR	296-4737-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.60	.45	.34
SN74AHCT373DBR	296-4737-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	400.00/2,000		
SN74AHCT373DW	296-4739-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.55	.44	.33
SN74AHCT373DWR	296-4739-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.55	.44	.33
SN74AHCT373DWR	296-4739-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	308.00/2,000		
SN74AHCT373N	296-4740-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.56	.42	.32
SN74AHCT373PWR	296-4741-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.55	.44	.33
SN74AHCT373PWR	296-4741-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	308.00/2,000		
SN74AHCT374DBR	296-4742-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SSOP	.60	.45	.34
SN74AHCT374DBR	296-4742-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SSOP	400.00/2,000		
SN74AHCT374DGVR	296-4743-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TVSOP	.66	.50	.38
SN74AHCT374DGVR	296-4743-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TVSOP	438.00/2,000		
SN74AHCT374DWR	296-4744-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SOIC	.55	.44	.33
SN74AHCT374DWR	296-4744-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SOIC	308.00/2,000		
SN74AHCT374N	296-4745-5-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-Dip	.56	.42	.32
SN74AHCT374PWR	296-4746-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TSSOP	.55	.44	.33
SN74AHCT374PWR	296-4746-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TSSOP	308.00/2,000		
SN74AHCT540DBR	296-4747-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74AHCT540DBR	296-4747-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74AHCT540DGVR	296-4748-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.60	.45	.34
SN74AHCT540DGVR	296-4748-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	400.00/2,000		
SN74AHCT540DW	296-4749-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74AHCT540DWR	296-4749-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74AHCT540DWR	296-4749-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	320.00/2,000		
SN74AHCT540N	296-4750-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74AHCT540PWR	296-4751-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.56	.42	.32
SN74AHCT540PWR	296-4751-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	372.00/2,000		
SN74AHCT541DBR	296-4752-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74AHCT541DBR	296-4752-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74AHCT541DWR	296-4754-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74AHCT541DWR	296-4754-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	320.00/2,000		
SN74AHCT541IDWREP	296-19503-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.02	.85	.68
SN74AHCT541IDWREP	296-19503-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	904.00/2,000		
SN74AHCT541N	296-4755-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74AHCT541NSR	296-13145-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.60	.45	.34
SN74AHCT541NSR	296-13145-2-ND	Tri-State Octal Buffer/Driver	20-SOP	400.00/2,000		
SN74AHCT541PWR	296-1120-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.48	.36	.27
SN74AHCT541PWR	296-1120-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	320.00/2,000		
SN74AHCT573DBR	296-4756-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.60	.45	.34
SN74AHCT573DBR	296-4756-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	400.00/2,000		
SN74AHCT573DGVR	296-4757-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.60	.45	.34
SN74AHCT573DGVR	296-4757-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	400.00/2,000		
SN74AHCT573DW	296-4758-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.48	.36	.27
SN74AHCT573DWR	296-4758-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.48	.36	.27
SN74AHCT573DWR	296-4758-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	320.00/2,000		
SN74AHCT573N	296-4759-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.56	.42	.32
SN74AHCT573PWR	296-1121-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.50	.40	.30
SN74AHCT573PWR	296-1121-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	278.00/2,000		
SN74AHCT574DBR	296-4760-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74AHCT574DBR	296-4760-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	400.00/2,000		
SN74AHCT574DGVR	296-4761-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.60	.45	.34
SN74AHCT574DGVR	296-4761-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	400.00/2,000		
SN74AHCT574DWR	296-4762-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74AHCT574DWR	296-4762-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	320.00/2,000		
SN74AHCT574N	296-4763-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.56	.42	.32
SN74AHCT574PWR	296-4764-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.47	.38	.29
SN74AHCT574PWR	296-4764-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	264.00/2,000		
SN74AHCT594D	296-4765-5-ND	8-Bit Shift Register w/Output Register	16-SOIC	.96	.72	.54

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHCT594DBR	296-4766-1-ND	8-Bit Shift Register w/Output Register	16-SSOP	.96	.72	.54
SN74AHCT594DBR	296-4766-2-ND	8-Bit Shift Register w/Output Register	16-SSOP		638.00/2,000	
SN74AHCT594PWR	296-4767-1-ND	8-Bit Shift Register w/Output Register	16-TSSOP	.96	.72	.54
SN74AHCT594PWR	296-4767-2-ND	8-Bit Shift Register w/Output Register	16-TSSOP		638.00/2,000	
SN74AHCT595D	296-14308-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.55	.44	.33
SN74AHCT595DBR	296-13490-1-ND	Tri-State 8-Bit Shift Register	16-SSOP	.96	.72	.54
SN74AHCT595DBR	296-13490-2-ND	Tri-State 8-Bit Shift Register	16-SSOP		638.00/2,000	
SN74AHCT595PWR	296-9758-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.53	.42	.32
SN74AHCT595PWR	296-9758-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP		294.00/2,000	
SN74AHCT16240DGGR	296-4681-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74AHCT16240DGGR	296-4681-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP		1560.00/2,000	
SN74AHCT16240DGVR	296-4682-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74AHCT16240DGVR	296-4682-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP		1560.00/2,000	
SN74AHCT16240DL	296-4683-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74AHCT16244DGGR	296-4684-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74AHCT16244DGGR	296-4684-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP		1560.00/2,000	
SN74AHCT16244DGVR	296-4685-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74AHCT16244DGVR	296-4685-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP		1560.00/2,000	
SN74AHCT16244DL	296-4686-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74AHCT16245DGGR	296-4687-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.50	1.20	.90
SN74AHCT16245DGGR	296-4687-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP		1560.00/2,000	
SN74AHCT16245DGVR	296-4688-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.50	1.20	.90
SN74AHCT16245DGVR	296-4688-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP		1560.00/2,000	
SN74AHCT16245DL	296-4689-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.50	1.20	.90
SN74AHCT16373DGGR	296-4690-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.50	1.20	.90
SN74AHCT16373DGGR	296-4690-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP		1560.00/2,000	
SN74AHCT16373DGVR	296-4691-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1.50	1.20	.90
SN74AHCT16373DGVR	296-4691-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP		1560.00/2,000	
SN74AHCT16373DL	296-4692-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.50	1.20	.90
SN74AHCT16374DGGR	296-4693-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.50	1.20	.90
SN74AHCT16374DGGR	296-4693-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP		1560.00/2,000	
SN74AHCT16374DGVR	296-4694-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1.50	1.20	.90
SN74AHCT16374DGVR	296-4694-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP		1560.00/2,000	
SN74AHCT16374DLR	296-4695-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.50	1.20	.90
SN74AHCT16374DLR	296-4695-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP		780.00/1,000	
SN74AHCT16540DGGR	296-4696-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.60	1.28	.96
SN74AHCT16540DGGR	296-4696-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP		1664.00/2,000	
SN74AHCT16540DGVR	296-4697-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.60	1.28	.96
SN74AHCT16540DGVR	296-4697-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP		1664.00/2,000	
SN74AHCT16540DL	296-4698-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.60	1.28	.96
SN74AHCT16541DGGR	296-4699-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.60	1.28	.96
SN74AHCT16541DGGR	296-4699-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP		1664.00/2,000	
SN74AHCT16541DGVR	296-4700-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.60	1.28	.96
SN74AHCT16541DGVR	296-4700-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP		1664.00/2,000	
SN74AHCT16541DL	296-4701-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.60	1.28	.96

AHCU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHCU04D	296-9759-5-ND	Hex Inverter	14-SOIC	.39	.32	.22
SN74AHCU04DBR	296-9760-1-ND	Hex Inverter	14-SSOP	.46	.37	.26
SN74AHCU04DBR	296-9760-2-ND	Hex Inverter	14-SSOP		252.00/2,000	
SN74AHCU04DGVR	296-9761-1-ND	Hex Inverter	14-TVSOP	.50	.41	.28
SN74AHCU04DGVR	296-9761-2-ND	Hex Inverter	14-TVSOP		278.00/2,000	
SN74AHCU04MPWREP	296-22290-1-ND	Hex Inverter ***NEW!***	14-TSSOP	.84	.63	.48
SN74AHCU04MPWREP	296-22290-2-ND	Hex Inverter ***NEW!***	14-TSSOP		558.00/2,000	
SN74AHCU04N	296-9762-5-ND	Hex Inverter	14-Dip	.50	.40	.30
SN74AHCU04PWR	296-9763-1-ND	Hex Inverter	14-TSSOP	.39	.32	.22
SN74AHCU04PWR	296-9763-2-ND	Hex Inverter	14-TSSOP		216.00/2,000	
SN74AHCU04RGYR	296-13916-1-ND	Hex Inverter	14-QFN	.55	.44	.33
SN74AHCU04RGYR	296-13916-2-ND	Hex Inverter	14-QFN		154.00/1,000	

Microgate Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHC1G00DBVR	296-1087-1-ND	Single 2-Input NAND Gate	SOT-23-5	.40	.32	.22
SN74AHC1G00DBVR	296-1087-2-ND	Single 2-Input NAND Gate	SOT-23-5		270.00/3,000	
SN74AHC1G00DCKR	296-8741-1-ND	Single 2-Input NAND Gate	SC70-5	.40	.32	.22
SN74AHC1G00DCKR	296-8741-2-ND	Single 2-Input NAND Gate	SC70-5		270.00/3,000	
SN74AHC1G00DRLR	296-19780-1-ND	Single 2-Input NAND Gate	5-SOP	.42	.35	.24
SN74AHC1G00DRLR	296-19780-2-ND	Single 2-Input NAND Gate	5-SOP		444.00/4,000	
SN74AHC1G02DBVR	296-1088-1-ND	Single 2-Input NOR Gate	SOT-23-5	.40	.32	.22
SN74AHC1G02DBVR	296-1088-2-ND	Single 2-Input NOR Gate	SOT-23-5		270.00/3,000	
SN74AHC1G02DCKR	296-8742-1-ND	Single 2-Input NOR Gate	SC70-5	.40	.32	.22
SN74AHC1G02DCKR	296-8742-2-ND	Single 2-Input NOR Gate	SC70-5		270.00/3,000	
SN74AHC1G02DRLR	296-23229-1-ND	Single 2-Input NOR Gate ***NEW!***	SOT-553	.42	.35	.24
SN74AHC1G02DRLR	296-23229-2-ND	Single 2-Input NOR Gate ***NEW!***	SOT-553		444.00/4,000	
SN74AHC1G02MDCKREP	296-23230-1-ND	Single 2-Input NOR Gate ***NEW!***	SC70-5	.60	.45	.34
SN74AHC1G02MDCKREP	296-23230-2-ND	Single 2-Input NOR Gate ***NEW!***	SC70-5		585.00/3,000	
SN74AHC1G04DBVR	296-1089-1-ND	Single Inverter Gate	SOT-23-5	.40	.32	.22
SN74AHC1G04DBVR	296-1089-2-ND	Single Inverter Gate	SOT-23-5		270.00/3,000	
SN74AHC1G04DCKR	296-1090-1-ND	Single Inverter Gate	SC70-5	.40	.32	.22
SN74AHC1G04DCKR	296-1090-2-ND	Single Inverter Gate	SC70-5		270.00/3,000	
SN74AHC1G04DRLR	296-19375-1-ND	Single Inverter Gate	SOT-553	.42	.35	.24
SN74AHC1G04DRLR	296-19375-2-ND	Single Inverter Gate	SOT-553		444.00/4,000	
SN74AHC1G04QDCKRQ1	296-17248-1-ND	Single Inverter Gate	SC70-5	.46	.37	.26
SN74AHC1G04QDCKRQ1	296-17248-2-ND	Single Inverter Gate	SC70-5		357.00/3,000	
SN74AHC1G08DBVR	296-1091-1-ND	Single 2-Input AND Gate	SOT-23-5	.40	.32	.22
SN74AHC1G08DBVR	296-1091-2-ND	Single 2-Input AND Gate	SOT-23-5		270.00/3,000	
SN74AHC1G08DCKR	296-8743-1-ND	Single 2-Input AND Gate	5-SOP	.40	.32	.22
SN74AHC1G08DCKR	296-8743-2-ND	Single 2-Input AND Gate	5-SOP		270.00/3,000	
SN74AHC1G08DRLR	296-19376-1-ND	Single 2-Input AND Gate	SOT-553	.42	.35	.24
SN74AHC1G08DRLR	296-19376-2-ND	Single 2-Input AND Gate	SOT-553		444.00/4,000	
SN74AHC1G14DBVR	296-1092-1-ND	Single Schmitt-Trigger Inverter Gate	SOT-23-5	.40	.32	.22
SN74AHC1G14DBVR	296-1092-2-ND	Single Schmitt-Trigger Inverter Gate	SOT-23-5		270.00/3,000	
SN74AHC1G14DCKR	296-8748-1-ND	Single Schmitt-Trigger Inverter Gate	SC70-5	.40	.32	.22
SN74AHC1G14DCKR	296-8748-2-ND	Single Schmitt-Trigger Inverter Gate	SC70-5		270.00/3,000	
SN74AHC1G14DRLR	296-23232-1-ND	Single Schmitt-Trigger Inverter Gate ***NEW!***	SOT-553	.42	.35	.24
SN74AHC1G14DRLR	296-23232-2-ND	Single Schmitt-Trigger Inverter Gate ***NEW!***	SOT-553		444.00/4,000	
SN74AHC1G32DBVR	296-1093-1-ND	Single 2-Input OR Gate	SOT-23-5	.40	.32	.22
SN74AHC1G32DBVR	296-1093-2-ND	Single 2-Input OR Gate	SOT-23-5		270.00/3,000	
SN74AHC1G32DCKR	296-8749-1-ND	Single 2-Input OR Gate	SC70-5	.40	.32	.22
SN74AHC1G32DCKR	296-8749-2-ND	Single 2-Input OR Gate	SC70-5		270.00/3,000	
SN74AHC1G32DRLR	296-19378-1-ND	Single 2-Input OR Gate	SOT-553	.42	.35	.24
SN74AHC1G32DRLR	296-19378-2-ND	Single 2-Input OR Gate	SOT-553		444.00/4,000	
SN74AHC1G32TDBVRQ1	296-17421-1-ND	Single 2-Input OR Gate	SOT-23-5	.46	.37	.26
SN74AHC1G32TDBVRQ1	296-17421-2-ND	Single 2-Input OR Gate	SOT-23-5		357.00/3,000	
SN74AHC1G86DBVR	296-1094-1-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.40	.32	.22
SN74AHC1G86DBVR	296-1094-2-ND	Single 2-Input Exclusive OR Gate	SOT-23-5		270.00/3,000	
SN74AHC1G86DCKR	296-8750-1-ND	Single 2-Input Exclusive OR Gate	SC70-5	.40	.32	.22
SN74AHC1G86DCKR	296-8750-2-ND	Single 2-Input Exclusive OR Gate	SC70-5		270.00/3,000	
SN74AHC1G86DRLR	296-19738-1-ND	Single 2-Input Exclusive OR Gate	5-SOP	.42	.35	.24
SN74AHC1G86DRLR	296-19738-2-ND	Single 2-Input Exclusive OR Gate	5-SOP		444.00/4,000	
SN74AHC1G86MDCKREP	296-23233-1-ND	Single 2-In. Exclusive OR Gate ***NEW!***	SC70-5	.60	.45	.34
SN74AHC1G86MDCKREP	296-23233-2-ND	Single 2-In. Exclusive OR Gate ***NEW!***	SC70-5		585.00/3,000	
SN74AHC1G125DBVR	296-8744-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.40	.32	.22
SN74AHC1G125DBVR	296-8744-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5		270.00/3,000	
SN74AHC1G125DCKR	296-8745-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.40	.32	.22
SN74AHC1G125DCKR	296-8745-2-ND	Tri-State Single Bus Buffer Gate	SC70-5		270.00/3,000	
SN74AHC1G125DRLR	296-23231-1-ND	Tri-State Single Bus Buffer Gate ***NEW!***	SOT-553	.46	.37	.26
SN74AHC1G125DRLR	296-23231-2-ND	Tri-State Single Bus Buffer Gate ***NEW!***	SOT-553		476.00/4,000	
SN74AHC1G126DBVR	296-8746-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.40	.32	.22
SN74AHC1G126DBVR	296-8746-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5		270.00/3,000	
SN74AHC1G126DCKR	296-8747-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.40	.32	.22
SN74AHC1G126DCKR	296-8747-2-ND	Tri-State Single Bus Buffer Gate	SC70-5		270.00/3,000	
SN74AHC1G126DRLR	296-19377-1-ND	Tri-State Single Bus Buffer Gate	SOT-553	.46	.37	.26
SN74AHC1G126DRLR	296-19377-2-ND	Tri-State Single Bus Buffer Gate	SOT-553		476.00/4,000	
SN74AHC1GU04DBVR	296-1095-1-ND	Single Inverter Gate	SOT-23-5	.40	.32	.22
SN74AHC1GU04DBVR	296-1095-2-ND	Single Inverter Gate	SOT-23-5		270.00/3,000	
SN74AHC1GU04DCKR	296-8751-1-ND	Single Inverter Gate	SC70-5	.40	.32	.22
SN74AHC1GU04DCKR	296-8751-2-ND	Single Inverter Gate	SC70-5		270.00/3,000	
SN74AHC1GU04DRLR	296-23234-1-ND	Single Inverter Gate ***NEW!***	SOT-553	.42	.35	.24
SN74AHC1GU04DRLR	296-23234-2-ND	Single Inverter Gate ***NEW!***	SOT-553		444.00/4,000	
SN74AHCT1G00DBVR	296-1111-1-ND	Single 2-Input NAND Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G00DBVR	296-1111-2-ND	Single 2-Input NAND Gate	SOT-23-5		270.00/3,000	
SN74AHCT1G00DCKR	296-4703-1-ND	Single 2-Input NAND Gate	5-SOT	.40	.32	.22
SN74AHCT1G00DCKR	296-4703-2-ND	Single 2-Input NAND Gate	5-SOT		270.00/3,000	
SN74AHCT1G02DBVR	296-4704-1-ND	Single 2-Input NOR Gate	SOT-23-5	.38	.30	.22
SN74AHCT1G02DBVR	296-4704-2-ND	Single 2-Input NOR Gate	SOT-23-5		258.00/3,000	
SN74AHCT1G02DCKR	296-4705-1-ND	Single 2-Input NOR Gate	5-SOT	.40	.32	.22
SN74AHCT1G02DCKR	296-4705-2-ND	Single 2-Input NOR Gate	5-SOT		270.00/3,000	
SN74AHCT1G04DBVR	296-1112-1-ND	Single Inverter Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G04DBVR	296-1112-2-ND	Single Inverter Gate	SOT-23-5		270.00/3,000	
SN74AHCT1G04DCKR	296-4706-1-ND	Single Inverter Gate	5-SOT	.40	.32	.22
SN74AHCT1G04DCKR	296-4706-2-ND	Single Inverter Gate	5-SOT		270.00/3,000	
SN74AHCT1G08DBVR	296-1113-1-ND	Single 2-Input AND Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G08DBVR	296-1113-2-ND	Single 2-Input AND Gate	SOT-23-5		270.00/3,000	
SN74AHCT1G08DCKR	296-4707-1-ND	Single 2-Input AND Gate	5-SOT	.40	.32	.22
SN74AHCT1G08DCKR	296-4707-2-ND	Single 2-Input AND Gate	5-SOT		270.00/3,000	
SN74AHCT1G08DRLR	296-19593-1-ND	Single 2-Input AND Gate	SOT-553	.42	.35	.24
SN74AHCT1G08DRLR	296-19593-2-ND	Single 2-Input AND Gate	SOT-553		444.00/4,000	
SN74AHCT1G14DBVR	296-1114-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.40	.32	.22
SN74AHCT1G14DBVR	296-1114-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5		270.00/3,000	
SN74AHCT1G14DCKR	296-4712-1-ND	Single Schmitt-Trigger Inverter Gate	5-SOT	.40	.32	.22
SN74AHCT1G14DCKR	296-4712-2-ND	Single Schmitt-Trigger Inverter Gate	5-SOT		270.00/3,000	
SN74AHCT1G32DBVR	296-1115-1-ND	Single 2-Input OR Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G32DBVR	296-1115-2-ND	Single 2-Input OR Gate	SOT-23-5		270.00/3,000	
SN74AHCT1G32DCKR	296-4713-1-ND	Single 2-Input OR Gate	5-SOT	.40	.32	.22
SN74AHCT1G32DCKR	296-4713-2-ND	Single 2-Input OR Gate	5-SOT		270.00/3,000	
SN74AHCT1G86DBVR	296-4714-1-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G86DBVR	296-4714-2-ND	Single 2-Input Exclusive OR Gate	SOT-23-5		270.00/3,000	
SN74AHCT1G86DCKR	296-4715-1-ND	Single 2-Input Exclusive OR Gate	5-SOT	.40	.32	.22
SN74AHCT1G86DCKR	296-4715-2-ND	Single 2-Input Exclusive OR Gate	5-SOT		270.00/3,000	
SN74AHCT1G125DBVR	296-4708-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G125DBVR	296-4708-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5		270.00/3,000	
SN74AHCT1G125DCKR	296-4709-1-ND	Tri-State Single Bus Buffer Gate	5-SOT	.40	.32	.22
SN74AHCT1G125DCKR	296-4709-2-ND	Tri-State Single Bus Buffer Gate	5-SOT		270.00/3,000	
SN74AHCT1G125DRLR	296-19379-1-ND	Tri-State Single Bus Buffer Gate	5-SOP	.46	.37	.26
SN74AHCT1G125DRLR	296-19379-2-ND	Tri-State Single Bus Buffer Gate	5-SOP		476.00/4,000	
SN74AHCT1G126DBVR	296-4710-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.40	.32	.22
SN74AHCT1G126DBVR	296-4710-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5		270.00/3,000	
SN74AHCT1G126DCKR	296-4711-1-ND	Tri-State Single Bus Buffer Gate	5-SOT	.40	.32	.22
SN74AHCT1G126DCKR	296-4711-2-ND	Tri-State Single Bus Buffer Gate	5-SOT		270.00/3,000	

ALB Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALB16244DGGR	296-9764-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	5.06	4.05	3.15
SN74ALB16244DGGR	296-9764-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP		5738.00/2,000	
SN74ALB16244DGVR	296-9765-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	5.06	4.05	3.15
SN74ALB16244DGVR	296-9765-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP		5738.00/2,000	
SN74ALB16244DL	296-9766-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	5.06	4.05	3.15
SN74ALB16244DLR	296-9766-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	5.06	4.05	3.15
SN74ALB16244DLR	296-9766-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP		2869.00/1,000	
SN74ALB16245DGGR	296-9767-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	5.06	4.05	3.15
SN74ALB16245DGGR	296-9767-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP		5738.00/2,000	
SN74ALB16245DGVR	296-9768-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	5.06	4.05	3.15
SN74ALB16245DGVR	296-9768-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP		5738.00/2,000	
SN74ALB16245DLR	296-9769-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	5.06	4.05	3.15
SN74ALB16245DLR	296-9769-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP		2869.00/1,000	

ALS Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65ALS176D	296-9698-5-ND	Differential Bus Transceiver	8-SOP	1.75	1.40	1.05
SN65ALS176DR	296-14637-1-ND	Differential Bus Transceiver	8-SOIC	1.75	1.40	1.05
SN65ALS176DR	296-14637-2-ND	Differential Bus Transceiver	8-SOIC		2240.00/2,500	
SN65ALS180DR	296-14638-1-ND	Differential Driver and Receiver Pair	14-SOIC	2.38	1.90	1.43
SN65ALS180DR	296-14638-2-ND	Differential Driver and Receiver Pair	14-SOIC		3040.00/2,500	
SN65ALS544NSR	296-15214-1-ND	Differential Interface LD Driver	20-SOP	3.60	2.88	2.24
SN65ALS544NSR	296-15214-2-ND	Differential Interface LD Driver	20-SOP		4080.00/2,000	
SN65ALS1176DR	296-9697-1-ND	Differential Bus Transceiver	8-SOIC	3.94	3.15	2.45
SN65ALS1176DR	296-9697-2-ND	Differential Bus Transceiver	8-SOIC		5512.50/2,500	
SN74ALS00AD	296-1477-5-ND	Quad 2-Input NAND Gate	14-SOIC	.72	.54	.41
SN74ALS00ADBR	296-5000-1-ND	Quad 2-Input NAND Gate	14-SSOP	.80	.60	.45
SN74ALS00ADBR	296-5000-2-ND	Quad 2-Input NAND Gate	14-SSOP		532.00/2,000	
SN74ALS00ADR	296-1477-1-ND	Quad 2-Input NAND Gate	14-SOIC	.72	.54	.41
SN74ALS00ADR	296-1477-2-ND	Quad 2-Input NAND Gate	14-SOIC		585.00/2,500	
SN74ALS00AN	296-1478-5-ND	Quad 2-Input NAND Gate	14-Dip	.80	.60	.45
SN74ALS00ANSR	296-5001-2-ND	Quad 2-Input NAND Gate	14-SOP		478.00/2,000	
SN74ALS02ADR	296-14705-1-ND	Quad 2-Input NOR Gate	14-SOIC	.72	.54	.41
SN74ALS02ADR	296-14705-2-ND	Quad 2-Input NOR Gate	14-SOIC		585.00/2,500	
SN74ALS02AN	296-1479-5-ND	Quad 2-Input NOR Gate	14-Dip	.76	.57	.43
SN74ALS04BD	296-1122-5-ND	Hex Inverter	14-SOIC	.72	.54	.41
SN74ALS04BDBR	296-5004-1-ND	Hex Inverter	14-SSOP	.72	.54	.41
SN74ALS04BDBR	296-5004-2-ND	Hex Inverter	14-SSOP		478.00/2,000	
SN74ALS04BDR	296-1122-1-ND	Hex Inverter	14-SOIC	.72	.54	.41
SN74ALS04BDR	296-1122-2-ND	Hex Inverter	14-SOIC		585.00/2,500	
SN74ALS04BN	296-1481-5-ND	Hex Inverter	14-Dip	.76	.57	.43

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALS05ADR	296-14707-1-ND	Hex Inverter	14-SOIC	.72	.54	.41
SN74ALS05ADR	296-14707-2-ND	Hex Inverter	14-SOIC	585.00/2,500		
SN74ALS05AN	296-1482-5-ND	Hex Inverter with OC	14-Dip	.76	.57	.43
SN74ALS08D	296-1123-5-ND	Quad 2-Input AND Gate	14-SOIC	.72	.54	.41
SN74ALS08DR	296-1123-1-ND	Quad 2-Input AND Gate	14-SOIC	.72	.54	.41
SN74ALS08DR	296-1123-2-ND	Quad 2-Input AND Gate	14-SOIC	585.00/2,500		
SN74ALS08N	296-1484-5-ND	Quad 2-Input AND Gate	14-Dip	.76	.57	.43
SN74ALS10ADR	296-14712-1-ND	Triple 3-Input NAND Gate	14-SOIC	.72	.54	.41
SN74ALS10ADR	296-14712-2-ND	Triple 3-Input NAND Gate	14-SOIC	585.00/2,500		
SN74ALS10AN	296-5011-5-ND	Triple 3-Input NAND Gate	14-Dip	.72	.54	.41
SN74ALS11ADR	296-14713-1-ND	Triple 3-Input AND Gate	14-SOIC	.96	.72	.54
SN74ALS11ADR	296-14713-2-ND	Triple 3-Input AND Gate	14-SOIC	780.00/2,500		
SN74ALS21ADR	296-5045-1-ND	Dual 4-Input AND Gate	14-SOIC	.96	.72	.54
SN74ALS21ADR	296-5045-2-ND	Dual 4-Input AND Gate	14-SOIC	780.00/2,500		
SN74ALS27ADR	296-14731-1-ND	Triple 3-Input NOR Gate	14-SOIC	.84	.70	.56
SN74ALS27ADR	296-14731-2-ND	Triple 3-Input NOR Gate	14-SOIC	910.00/2,500		
SN74ALS30AN	296-1494-5-ND	8-Input NAND Gate	14-Dip	.72	.54	.41
SN74ALS32DR	296-1127-1-ND	Quad 2-Input OR Gate	14-SOIC	.72	.54	.41
SN74ALS32DR	296-1127-2-ND	Quad 2-Input OR Gate	14-SOIC	585.00/2,500		
SN74ALS32N	296-1495-5-ND	Quad 2-Input OR Gate	14-Dip	.72	.54	.41
SN74ALS38BDR	296-14738-1-ND	Quad 2-Input NAND Buffer	14-SOIC	.72	.54	.41
SN74ALS38BDR	296-14738-2-ND	Quad 2-Input NAND Buffer	14-SOIC	585.00/2,500		
SN74ALS74AD	296-1130-5-ND	Dual D-Type Flip-Flop	14-SOIC	.88	.66	.50
SN74ALS74ADR	296-1130-1-ND	Dual D-Type Flip-Flop	14-SOIC	.88	.66	.50
SN74ALS74ADR	296-1130-2-ND	Dual D-Type Flip-Flop	14-SOIC	715.00/2,500		
SN74ALS74AN	296-1506-5-ND	Dual D-Type Flip-Flop	14-Dip	.88	.66	.50
SN74ALS86DR	296-14751-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.52	.39	.30
SN74ALS86DR	296-14751-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	422.50/2,500		
SN74ALS109AN	296-14711-5-ND	Dual J-K Flip-Flop	16-Dip	.84	.70	.56
SN74ALS112AN	296-5013-5-ND	Dual J-K Negative-Edge-Triggered F/F	16-Dip	.84	.70	.56
SN74ALS138ADR	296-14714-1-ND	3-8 Line Decoder/Demux	16-SOIC	.96	.72	.54
SN74ALS138ADR	296-14714-2-ND	3-8 Line Decoder/Demux	16-SOIC	780.00/2,500		
SN74ALS138AN	296-1485-5-ND	3-8 Line Decoder/Demux	16-Dip	.96	.72	.54
SN74ALS139DR	296-14715-1-ND	Dual 2-4 Decoder/Demux	16-SOIC	.78	.65	.52
SN74ALS139DR	296-14715-2-ND	Dual 2-4 Decoder/Demux	16-SOIC	845.00/2,500		
SN74ALS139N	296-1486-5-ND	Dual 2-4 Decoder/Demux	16-Dip	.78	.65	.52
SN74ALS151DR	296-14717-1-ND	1-of-8 Data Selector/Mux	16-SOIC	.90	.75	.60
SN74ALS151DR	296-14717-2-ND	1-of-8 Data Selector/Mux	16-SOIC	975.00/2,500		
SN74ALS157ADR	296-14718-1-ND	Quad 1-of-2 Data Selector/Mux	16-SOIC	.90	.75	.60
SN74ALS157ADR	296-14718-2-ND	Quad 1-of-2 Data Selector/Mux	16-SOIC	975.00/2,500		
SN74ALS157AN	296-14719-5-ND	Quad 1-of-2 Data Selector/Mux	16-Dip	.90	.75	.60
SN74ALS158NSR	296-13147-1-ND	Quad 1-of-2 Data Selector/Mux	16-SOP	2.40	1.92	1.44
SN74ALS158NSR	296-13147-2-ND	Quad 1-of-2 Data Selector/Mux	16-SOP	2496.00/2,000		
SN74ALS161BN	296-1487-5-ND	4-Bit Sync. Decade/Binary Counter	16-Dip	.96	.72	.54
SN74ALS163BD	296-23237-5-ND	4-Bit Sync. Decade/Binary Counter ***NEW!***	16-SOIC	.87	.73	.58
SN74ALS163BN	296-1488-5-ND	4-Bit Sync. Decade/Binary Counter	16-Dip	.87	.73	.58
SN74ALS166DBR	296-5027-1-ND	8-Bit Parallel-Load Shift Register	16-SSOP	3.04	2.43	1.89
SN74ALS166DBR	296-5027-2-ND	8-Bit Parallel-Load Shift Register	16-SSOP	3622.00/2,000		
SN74ALS169BNSR	296-13148-1-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	1.32	1.10	.88
SN74ALS169BNSR	296-13148-2-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	1170.00/2,000		
SN74ALS175DR	296-14721-1-ND	Quad D-Type Flip-Flop	16-SOIC	.96	.72	.54
SN74ALS175DR	296-14721-2-ND	Quad D-Type Flip-Flop	16-SOIC	780.00/2,500		
SN74ALS191AN	296-5034-5-ND	Sync. 4-Bit Up/Down Binary Counter	16-Dip	1.83	1.46	1.10
SN74ALS193AN	296-14722-5-ND	4-Bit Sync. Binary Counter	16-Dip	1.83	1.46	1.10
SN74ALS240ADWR	296-14724-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.93	.78	.62
SN74ALS240ADWR	296-14724-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	824.00/2,000		
SN74ALS240AN	296-14725-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.93	.78	.62
SN74ALS243ANSR	296-13149-1-ND	Tri-State Quad Bus Transceiver	14-SOP	3.83	3.06	2.38
SN74ALS243ANSR	296-13149-2-ND	Tri-State Quad Bus Transceiver	14-SOP	4336.00/2,000		
SN74ALS244CDW	296-1124-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.87	.73	.58
SN74ALS244CDWR	296-1124-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.87	.73	.58
SN74ALS244CDWR	296-1124-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	772.00/2,000		
SN74ALS244CN	296-1490-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.87	.73	.58
SN74ALS245ADBR	296-5049-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.16	.87	.66
SN74ALS245ADBR	296-5049-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	772.00/2,000		
SN74ALS245ADW	296-1125-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.87	.73	.58
SN74ALS245ADWR	296-1125-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.87	.73	.58
SN74ALS245ADWR	296-1125-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	772.00/2,000		
SN74ALS245AN	296-1492-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.87	.73	.58
SN74ALS257ADR	296-14728-1-ND	Tri-State Quad 2-1 Line Mux	16-SOIC	.90	.75	.60
SN74ALS257ADR	296-14728-2-ND	Tri-State Quad 2-1 Line Mux	16-SOIC	975.00/2,500		
SN74ALS257AN	296-5051-5-ND	Tri-State Quad 2-1 Line Mux	16-Dip	.90	.75	.60
SN74ALS259DR	296-14729-1-ND	8-Bit Addressable Latch	16-SOIC	2.27	1.82	1.42
SN74ALS259DR	296-14729-2-ND	8-Bit Addressable Latch	16-SOIC	3182.50/2,500		
SN74ALS273DWR	296-1126-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.90	.75	.60
SN74ALS273DWR	296-1126-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	798.00/2,000		
SN74ALS273N	296-1493-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.90	.75	.60
SN74ALS299NSR	296-13150-1-ND	Tri-State 8-Bit, Universal Shift/ Storage Register	20-SOP	3.60	2.88	2.24
SN74ALS299NSR	296-13150-2-ND	Tri-State 8-Bit, Universal Shift/ Storage Register	20-SOP	4080.00/2,000		
SN74ALS373ADWR	296-14735-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.84	.70	.56
SN74ALS373ADWR	296-14735-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	744.00/2,000		
SN74ALS373AN	296-1496-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.84	.70	.56
SN74ALS374ADWR	296-1128-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.84	.70	.56
SN74ALS374ADWR	296-1128-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	744.00/2,000		
SN74ALS374AN	296-1498-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.84	.70	.56
SN74ALS520N	296-14739-5-ND	8-Bit Identity Comparator	20-Dip	1.45	1.16	.87
SN74ALS521NSR	296-13151-1-ND	8-Bit Identity Comparator	20-SOP	1.38	1.10	.83
SN74ALS521NSR	296-13151-2-ND	8-Bit Identity Comparator	20-SOP	1508.00/2,000		
SN74ALS534ADWR	296-14740-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	2.25	1.80	1.40
SN74ALS534ADWR	296-14740-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	2550.00/2,000		
SN74ALS540DWR	296-14741-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	2.13	1.70	1.28
SN74ALS540DWR	296-14741-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	2210.00/2,000		
SN74ALS540-1NSR	296-13152-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	5.27	4.22	3.28
SN74ALS540-1NSR	296-13152-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	6248.00/2,000		
SN74ALS541DW	296-1499-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.35	1.13	.90
SN74ALS541DWR	296-14742-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.35	1.13	.90
SN74ALS541DWR	296-14742-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1198.00/2,000		
SN74ALS541N	296-1500-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	1.35	1.13	.90
SN74ALS541NSR	296-13153-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	1.35	1.13	.90
SN74ALS541NSR	296-13153-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	1198.00/2,000		
SN74ALS573CDW	296-1129-5-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.84	.70	.56
SN74ALS573CDWR	296-1129-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.84	.70	.56
SN74ALS573CDWR	296-1129-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	744.00/2,000		
SN74ALS573CN	296-1502-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.84	.70	.56
SN74ALS574BDW	296-1503-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.84	.70	.56
SN74ALS574BDWR	296-14745-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.84	.70	.56
SN74ALS574BDWR	296-14745-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	744.00/2,000		
SN74ALS574BN	296-1504-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.84	.70	.56
SN74ALS580BNSR	296-13154-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOP	2.34	1.88	1.46
SN74ALS580BNSR	296-13154-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOP	2652.00/2,000		
SN74ALS639AN	296-5068-5-ND	Octal Bus Transceiver	20-Dip	3.51	2.81	2.19
SN74ALS641A-1DW	296-9770-5-ND	Octal Bus Transceiver with OC Output	20-SOIC	3.17	2.54	1.98
SN74ALS641ADW	296-9771-5-ND	Octal Bus Transceiver with OC Output	20-SOIC	2.61	2.09	1.63
SN74ALS645AN	296-5076-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.50	1.20	.90
SN74ALS652ANT	296-14747-5-ND	Tri-State Octal Bus Transceiver	24-Dip	4.97	3.98	3.10
SN74ALS688N	296-14748-5-ND	8-Bit Identity Comparator	20-Dip	4.39	3.51	2.73
SN74ALS874BNT	296-14752-5-ND	Dual 4-Bit D-Type Flip-Flop	24-Dip	2.75	2.20	1.71
SN74ALS996DWR	296-5098-1-ND	8-Bit READ-BACK Latch	24-SOIC	9.66	7.73	6.53
SN74ALS996DWR	296-5098-2-ND	8-Bit READ-BACK Latch	24-SOIC	12076.00/2,000		
SN74ALS996NT	296-1507-5-ND	8-Bit READ-BACK Latch	24-Dip	9.66	7.73	6.53
SN74ALS1005DR	296-14709-1-ND	Hex Inverting Buffer	14-SOIC	1.45	1.16	.87
SN74ALS1005DR	296-14709-2-ND	Hex Inverting Buffer	14-SOIC	1855.00/2,500		
SN74ALS1005NSR	296-13146-1-ND	Hex Inverting Buffer with OC Output	14-SOP	1.38	1.10	.83
SN74ALS1005NSR	296-13146-2-ND	Hex Inverting Buffer with OC Output	14-SOP	1508.00/2,000		
SN74ALS1034D	296-5007-5-ND	Hex Non-Inverting Driver	14-SOIC	1.83	1.46	1.10
SN74ALS1035DR	296-14710-1-ND	Hex Non-Inverting Buffer	14-SOIC	1.45	1.16	.87
SN74ALS1035DR	296-14710-2-ND	Hex Non-Inverting Buffer	14-SOIC	1855.00/2,500		
SN74ALS1035N	296-5009-5-ND	Hex Non-Inverting Buffer	14-Dip	1.45	1.16	.87
SN74ALS29827NT	296-14732-5-ND	Tri-State 10-Bit Buffer	24-Dip	5.20	4.16	3.24
SN75ALS057DWR	296-12932-1-ND	Quad Interface Bus Transceiver	20-SOIC	4.37	3.50	2.72
SN75ALS057DWR	296-12932-2-ND	Quad Interface Bus Transceiver	20-SOIC	4948.00/2,000		
SN75ALS057N	296-9927-5-ND	Quad Interface Bus Transceiver	20-Dip	4.37	3.50	2.72
SN75ALS085DW	296-12933-5-ND	Dual Channel Driver/Receiver	24-SOIC	9.00	7.20	6.08
SN75ALS085NT	296-9928-5-ND	Dual Channel Driver/Receiver	24-Dip	9.50	7.60	6.42
SN75ALS160DW	296-9932-5-ND	Octal Bus Transceiver	20-SOIC	2.38	1.90	1.43
SN75ALS161N	296-9933-5-ND	Octal Bus Transceiver	20-Dip	5.60	4.48	3.78
SN75ALS162DW	296-9934-5-ND	Octal Bus Transceiver	24-SOIC	4.70	3.77	2.93
SN75ALS162DWR	296-14963-1-ND	Octal Bus Transceiver	24-SOIC	4.70	3.77	2.93
SN75ALS162DWR	296-14963-2-ND	Octal Bus Transceiver	24-SOIC	5330.00/2,000		
SN75ALS163DWR	296-9935-1-ND	Octal Interface Bus Transceiver	20-SOIC	5.30	4.24	3.58
SN75ALS163DWR	296-9935-2-ND	Octal Interface Bus Transceiver	20-SOIC	6626.00/2,000		
SN75ALS170ADW	296-9936-5-ND	Triple Differential Bus Transceiver	20-SOIC	5.52	4.42	3.73
SN75ALS171ADW	296-9937-5-ND	Triple Differential Bus Transceiver	20-SOIC	5.52	4.42	3.73
SN75ALS171DWR	296-9938-1-ND	Triple Differential Bus Transceiver	20-SOIC	5.14	4.12	3.47
SN75ALS171DWR	296-9938-2-ND	Triple Differential Bus Transceiver	20-SOIC	6426.00/2,000		
SN75ALS172ADW	296-9939-5-ND	Quad Differential Bus Line Driver	20-SOIC	3.26	2.61	2.03
SN75ALS172AN	296-9940-5-ND	Quad Differential Bus Line Driver	16-Dip	3.26	2.61	2.03
SN75ALS173N	296-9951-5-ND	Quad Differential Line Receiver	16-Dip	3.26	2.61	2.03
SN75ALS174AN	296-9952-5-ND	Quad Differential Line Driver	16-Dip	2.36	1.89	1.47
SN75ALS175N	296-9953-5-ND	Quad Differential Line Receiver	16-Dip	2.86	2.29	1.78
SN75ALS175NSR	296-9954-1-ND	Quad Differential Line Receiver	16-SOP	2.86	2.29	1.78
SN75ALS175NSR	296-9954-2-ND	Quad Differential Line Receiver	16-SOP	3238.00/2,000		
SN75ALS176AD	296-9955-5-ND	Differential Bus Transceiver	8-SOIC	1.75	1.40	1.05
SN75ALS176ADR	296-14964-1-ND	Differential Bus Transceiver	8-SOIC	1.75	1.40	1.05
SN75ALS176ADR	296-14964-2-ND	Differential Bus Transceiver	8-SOIC	2240.00/2,500		
SN75ALS176BD	296-9956-5-ND	Differential Bus Transceiver	8-SOIC	1.75	1.40	1.05
SN75ALS176BDR	296-14965-1-ND	Differential Bus Transceiver	8-SOIC	1.20	1.00	.80
SN75ALS176BDR	296-14965-2-ND	Differential Bus Transceiver	8-SOIC	1300.00/2,500		
SN75ALS176BP	296-9957-5-ND	Differential Bus Transceiver	8-Dip	1.55	1.24	.93
SN75ALS176D	296-9958-5-ND	Differential Bus Transceiver	8-SOIC	1.55	1.24	.93
SN75ALS176DR	296-14966-1-ND	Differential Bus Transceiver	8-SOIC	1.55	1.24	.93
SN75ALS176DR	296-14966-2-ND	Differential Bus Transceiver	8-SOIC	1985.00/2,500		
SN75ALS176P	296-9959-5-ND	Differential Bus Transceiver	8-Dip	1.55	1.24	.93
SN75ALS180D	296-9960-5-ND	Differential Driver/Receiver Pair	14-SOIC	2.05	1.64	1.23
SN75ALS180DR	296-14967-1-ND	Differential Driver/Receiver Pair	14-SOIC	2.05	1.64	1.23
SN75ALS180DR	296-14967-2-ND	Differential Driver/Receiver Pair	14-SOIC	2625.00/2,500		
SN75ALS180N	296-9961-5-ND	Differential Driver/Receiver Pair	14-Dip	2.05	1.64	1.23
SN75ALS181N	296-9962-5-ND	Differential Driver/Receiver Pair	14-Dip	2.25	1.80	1.35
SN75ALS181NSR	296-9963-1-ND	Differential Driver/Receiver Pair	14-SOP	2.25	1.80	1.35
SN75ALS181NSR	296-9963-2-ND	Differential Driver/Receiver Pair	14-SOP	2340.00/2,000		
SN75ALS191D	296-9964-5-ND	Dual Differential Line Driver	8-SOIC	1.25	1.00	.75
SN75ALS191P	296-9965-5-ND	Dual Differential Line Driver	8-Dip	1.25	1.00	.75
SN75ALS191PSR	296-13318-1-ND	Dual Differential Line Driver	8-SOP	1.25	1.00	.75
SN75ALS191PSR	296-13318-2-ND	Dual Differential Line Driver	8-SOP	1300.00/2,000		
SN75ALS192D	296-9966-5-ND	Quad Differential Line Driver	16-SOIC	.80	.60	.45
SN75ALS192DR	296-14968-1-ND	Quad Differential Line Driver	16-SOIC	.80	.60	.45
SN75ALS192DR	296-14968-2-ND	Quad Differential Line Driver	16-SOIC	650.00/2,500		
SN75ALS192N	296-15071-5-ND	Quad Differential Line Driver	16-Dip	.80	.60	.45
SN75ALS193D	296-9967-5-ND	Quad Differential Line Receiver	16-SOIC	.88	.66	.50
SN75ALS193N	296-9968-5-ND	Quad Differential Line Receiver	16-Dip	.88	.66	.50
SN75ALS194DR	296-14969-1-ND	Quad Differential Line Driver	16-SOIC	1.26	1.05	.84
SN75ALS194DR	296-14969-2-ND	Quad Differential Line Driver	16-SOIC	1365.00/2,500		
SN75ALS194N	296-9969-5-ND	Quad Differential Line Driver	16-Dip	1.26	1.05	.84
SN75ALS195N	296-9970-5-ND	Quad Differential Line Receiver	16-Dip	1.88	1.50	1.13
SN75ALS197D	296-9971-5-ND	Quad Differential Line Receiver	16-SOIC	.60	.45	.34
SN75ALS197DR	296-14970-1-ND	Quad Differential Line Receiver	16-SOIC	.60	.45	.34
SN75ALS197DR	296-14970-2-ND	Quad Differential Line Receiver	16-SOIC	487.50/2,500		
SN75ALS197N	296-9972-5-ND	Quad Differential Line Receiver	16-Dip	.60	.45	.34
SN75ALS197NSR	296-13319-1-ND	Tri-State Quad Differential Line Receiver	16-SOP	.60	.45	.34
SN75ALS197NSR	296-13319-2-ND	Tri-State Quad Differential Line Receiver	16-SOP	400.00/2,000		
SN75ALS199D	296-9973-5-ND	Quad Differential Line Receiver	16-SOIC	1.26	1.05	.84
SN75ALS1177N	296-9929-5-ND	Tri-State Dual Differential Driver/Receiver	16-Dip	4.05	3.24	2.52
SN75ALS1177NSR	296-9930-1-ND	Tri-State Dual Differential Driver/Receiver	16-SOP	4.05	3.24	2.52
SN75ALS1177NSR	296-9930-2-ND	Tri-State Dual Differential Driver/Receiver	16-SOP	4590.00/2,000		
SN75ALS1178N	296-9931-5-ND	Tri-State Dual Differential Driver/Receiver	16-Dip	4.05	3.24	2.52
SN75ALS1178NSR	296-12185-1-ND	Tri-State Dual Differential Driver/Receiver	16-SOP	4.05	3.24	2.52
SN75ALS1178NSR	296-12185-2-ND	Tri-State Dual Differential Driver/Receiver	16-SOP	4590.00/2,000		

ALVC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ALVC164245GRDR	296-16868-1-ND	Tri-State 16-Bit Noninverting Bus Transceiver	54-BGA	2.40	1.92	1.44
74ALVC164245GRDR	296-16868-2-ND	Tri-St. 16-Bit Noninverting Bus Transcvr	54-BGA	1248.00/1,000		
74ALVC164245ZQLR	296-23181-1-ND	Tri-State 16-Bit Noninverting Bus Transceiver ***NEW!***	56-VFBGA	1.60	1.28	.96

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74ALVC164245ZQLR	296-23181-2-ND	Tri-State 16-Bit Noninverting Bus Transceiver ***NEW!***	56-VFBGA	832.00/1,000		
74ALVC164245ZRDR	296-16869-1-ND	Tri-State 16-Bit Noninverting Bus Transceiver	54-BGA	1.60	1.28	.96
74ALVC164245ZRDR	296-16869-2-ND	Tri-State 16-Bit Noninverting Bus Transceiver	54-BGA	832.00/1,000		
CALVC164245IDGGREP	296-19491-1-ND	Tri-State 16-Bit Noninverting Bus Transceiver	48-TSSOP	3.04	2.43	1.89
CALVC164245IDGGREP	296-19491-2-ND	Tri-State 16-Bit Noninverting Bus Transceiver	48-TSSOP	3442.00/2,000		
CALVC164245IDLREP	296-18092-1-ND	Tri-State 16-Bit Noninverting Bus Transceiver	48-SSOP	3.04	2.43	1.89
CALVC164245IDLREP	296-18092-2-ND	Tri-State 16-Bit Noninverting Bus Transceiver	48-SSOP	1721.00/1,000		
CALVC164245IGQLREP	296-22092-1-ND	Tri-State 16-Bit Noninverting Bus Transceiver ***NEW!***	48-VFBGA	2.25	1.80	1.40
CALVC164245IGQLREP	296-22092-2-ND	Tri-State 16-Bit Noninverting Bus Transceiver ***NEW!***	48-VFBGA	1275.00/1,000		
CALVC164245IZQLREP	296-22093-1-ND	Tri-State 16-Bit Noninverting Bus Transceiver ***NEW!***	48-VFBGA	2.25	1.80	1.40
CALVC164245IZQLREP	296-22093-2-ND	Tri-State 16-Bit Noninverting Bus Transceiver ***NEW!***	48-VFBGA	1275.00/1,000		
CALVC164245MDGGREP	296-19492-1-ND	Tri-State 16-Bit Noninverting Bus Transceiver ***NEW!***	48-TSSOP	5.04	4.04	3.14
CALVC164245MDGGREP	296-19492-2-ND	Tri-State 16-Bit Noninverting Bus Transceiver ***NEW!***	48-TSSOP	5712.00/2,000		
SN74ALVC00DGVR	296-5100-1-ND	Quad 2-Input NAND Gate	14-TVSOP	.50	.40	.30
SN74ALVC00DGVR	296-5100-2-ND	Quad 2-Input NAND Gate	14-TVSOP	278.00/2,000		
SN74ALVC00DR	296-5101-1-ND	Quad 2-Input NAND Gate	14-SOIC	.45	.36	.27
SN74ALVC00DR	296-5101-2-ND	Quad 2-Input NAND Gate	14-SOIC	305.00/2,500		
SN74ALVC00IDREP	296-22291-1-ND	Quad 2-Input NAND Gate ***NEW!***	14-SOIC	.80	.60	.45
SN74ALVC00IDREP	296-22291-2-ND	Quad 2-Input NAND Gate ***NEW!***	14-SOIC	650.00/2,500		
SN74ALVC00NSR	296-5103-1-ND	Quad 2-Input NAND Gate	14-SOP	.45	.36	.27
SN74ALVC00NSR	296-5103-2-ND	Quad 2-Input NAND Gate	14-SOP	252.00/2,000		
SN74ALVC00PWR	296-5104-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.45	.36	.27
SN74ALVC00PWR	296-5104-2-ND	Quad 2-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74ALVC04D	296-1508-5-ND	Hex Inverter	14-SOIC	.45	.36	.27
SN74ALVC04DGVR	296-5105-1-ND	Hex Inverter	14-TVSOP	.50	.40	.30
SN74ALVC04DGVR	296-5105-2-ND	Hex Inverter	14-TVSOP	278.00/2,000		
SN74ALVC04DR	296-14780-1-ND	Hex Inverter	14-SOIC	.45	.36	.27
SN74ALVC04DR	296-14780-2-ND	Hex Inverter	14-SOIC	305.00/2,500		
SN74ALVC04PWR	296-5106-1-ND	Hex Inverter	14-TSSOP	.45	.36	.27
SN74ALVC04PWR	296-5106-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		
SN74ALVC04RGYR	296-13917-1-ND	Hex Inverter	14-QFN	.56	.42	.32
SN74ALVC04RGYR	296-13917-2-ND	Hex Inverter	14-QFN	186.00/1,000		
SN74ALVC08DGVR	296-5107-1-ND	Quad 2-Input AND Gate	14-TVSOP	.50	.40	.30
SN74ALVC08DGVR	296-5107-2-ND	Quad 2-Input AND Gate	14-TVSOP	278.00/2,000		
SN74ALVC08DR	296-5108-1-ND	Quad 2-Input AND Gate	14-SOIC	.45	.36	.27
SN74ALVC08DR	296-5108-2-ND	Quad 2-Input AND Gate	14-SOIC	305.00/2,500		
SN74ALVC08IDREP	296-20770-1-ND	Quad 2-Input AND Gate	14-SOIC	.80	.60	.45
SN74ALVC08IDREP	296-20770-2-ND	Quad 2-Input AND Gate	14-SOIC	650.00/2,500		
SN74ALVC08PWR	296-5109-1-ND	Quad 2-Input AND Gate	14-TSSOP	.45	.36	.27
SN74ALVC08PWR	296-5109-2-ND	Quad 2-Input AND Gate	14-TSSOP	252.00/2,000		
SN74ALVC08RGYR	296-13918-1-ND	Quad 2-Input AND Gate	14-QFN	.64	.48	.36
SN74ALVC08RGYR	296-13918-2-ND	Quad 2-Input AND Gate	14-QFN	213.00/1,000		
SN74ALVC10D	296-1509-5-ND	Triple 3-Input NAND Gate	14-SOIC	.45	.36	.27
SN74ALVC10DR	296-1509-1-ND	Triple 3-Input NAND Gate	14-SOIC	.45	.36	.27
SN74ALVC10DR	296-1509-2-ND	Triple 3-Input NAND Gate	14-SOIC	305.00/2,500		
SN74ALVC10DGVR	296-5110-1-ND	Triple 3-Input NAND Gate	14-TVSOP	.50	.40	.30
SN74ALVC10DGVR	296-5110-2-ND	Triple 3-Input NAND Gate	14-TVSOP	278.00/2,000		
SN74ALVC10NSR	296-5111-1-ND	Triple 3-Input NAND Gate	14-SOP	.45	.36	.27
SN74ALVC10NSR	296-5111-2-ND	Triple 3-Input NAND Gate	14-SOP	252.00/2,000		
SN74ALVC10PWR	296-5112-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.45	.36	.27
SN74ALVC10PWR	296-5112-2-ND	Triple 3-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74ALVC14DGVR	296-5119-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.50	.40	.30
SN74ALVC14DGVR	296-5119-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	278.00/2,000		
SN74ALVC14DR	296-5120-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.45	.36	.27
SN74ALVC14DR	296-5120-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	305.00/2,500		
SN74ALVC14PWR	296-5121-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.45	.36	.27
SN74ALVC14PWR	296-5121-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	252.00/2,000		
SN74ALVC32DGVR	296-5139-1-ND	Quad 2-Input OR Gate	14-TVSOP	.45	.36	.27
SN74ALVC32DGVR	296-5139-2-ND	Quad 2-Input OR Gate	14-TVSOP	252.00/2,000		
SN74ALVC32DR	296-5140-1-ND	Quad 2-Input OR Gate	14-SOIC	.45	.36	.27
SN74ALVC32DR	296-5140-2-ND	Quad 2-Input OR Gate	14-SOIC	305.00/2,500		
SN74ALVC32NSR	296-5141-1-ND	Quad 2-Input OR Gate	14-SOP	.45	.36	.27
SN74ALVC32NSR	296-5141-2-ND	Quad 2-Input OR Gate	14-SOP	252.00/2,000		
SN74ALVC32PWR	296-5142-1-ND	Quad 2-Input OR Gate	14-TSSOP	.45	.36	.27
SN74ALVC32PWR	296-5142-2-ND	Quad 2-Input OR Gate	14-TSSOP	252.00/2,000		
SN74ALVC125D	296-1510-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.52	.39	.30
SN74ALVC125DR	296-1510-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.52	.39	.30
SN74ALVC125DR	296-1510-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	422.50/2,500		
SN74ALVC125DGVR	296-5113-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.52	.39	.30
SN74ALVC125DGVR	296-5113-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	346.00/2,000		
SN74ALVC125NSR	296-5114-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.52	.39	.30
SN74ALVC125NSR	296-5114-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP	346.00/2,000		
SN74ALVC125PWR	296-5115-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.52	.39	.30
SN74ALVC125PWR	296-5115-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	346.00/2,000		
SN74ALVC126DGVR	296-5116-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.57	.43	.33
SN74ALVC126DGVR	296-5116-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	380.00/2,000		
SN74ALVC126DR	296-5117-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.52	.39	.30
SN74ALVC126DR	296-5117-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	422.50/2,500		
SN74ALVC126NSR	296-12859-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.52	.39	.30
SN74ALVC126NSR	296-12859-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP	346.00/2,000		
SN74ALVC126PWR	296-5118-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.52	.39	.30
SN74ALVC126PWR	296-5118-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	346.00/2,000		
SN74ALVC244DGVR	296-12862-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.62	.47	.35
SN74ALVC244DGVR	296-12862-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	410.00/2,000		
SN74ALVC244DWR	296-5135-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74ALVC244DWR	296-5135-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	372.00/2,000		
SN74ALVC244IPWREP	296-19504-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.93	.78	.62
SN74ALVC244IPWREP	296-19504-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	824.00/2,000		
SN74ALVC244NSR	296-12863-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.56	.42	.32
SN74ALVC244NSR	296-12863-2-ND	Tri-State Octal Buffer/Driver	20-SOP	372.00/2,000		
SN74ALVC245DGVR	296-5137-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.62	.47	.35
SN74ALVC245DGVR	296-5137-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	410.00/2,000		
SN74ALVC245DWR	296-5138-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.56	.42	.32
SN74ALVC245DWR	296-5138-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	372.00/2,000		
SN74ALVC245PWR	296-9774-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.56	.42	.32
SN74ALVC245PWR	296-9774-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	372.00/2,000		
SN74ALVC16244ADGGR	296-5123-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.86	.72	.58
SN74ALVC16244ADGGR	296-5123-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	760.00/2,000		
SN74ALVC16244ADL	296-5124-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.05	.88	.70
SN74ALVC16244AGQLR	296-9772-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1.88	1.50	1.13
SN74ALVC16244AGQLR	296-9772-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	975.00/1,000		
SN74ALVC16334DGGR	296-1134-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	1.25	1.00	.75
SN74ALVC16334DGGR	296-1134-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	1300.00/2,000		
SN74ALVC16334DGVR	296-5130-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	1.25	1.00	.75
SN74ALVC16334DGVR	296-5130-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	1300.00/2,000		
SN74ALVC16334DL	296-1515-5-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	1.25	1.00	.75
SN74ALVC16834DGGR	296-1136-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	3.71	2.97	2.31
SN74ALVC16834DGGR	296-1136-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	4208.00/2,000		
SN74ALVC16834DGVR	296-12860-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	4.10	3.28	2.55
SN74ALVC16834DGVR	296-12860-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	4642.00/2,000		
SN74ALVC16834DL	296-1516-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	4.10	3.28	2.55
SN74ALVC16834GQLR	296-5132-1-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	5.40	4.32	3.65
SN74ALVC16834GQLR	296-5132-2-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	3375.00/1,000		
SN74ALVC16835DGGR	296-1137-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2.00	1.60	1.20
SN74ALVC16835DGGR	296-1137-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2080.00/2,000		
SN74ALVC16835DGVR	296-5133-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2.00	1.60	1.20
SN74ALVC16835DGVR	296-5133-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2080.00/2,000		
SN74ALVC16835DL	296-5134-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.00	1.60	1.20
SN74ALVC162334DGGR	296-1131-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	3.71	2.97	2.31
SN74ALVC162334DGGR	296-1131-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	4208.00/2,000		
SN74ALVC162334DGVR	296-5122-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	3.71	2.97	2.31
SN74ALVC162334DGVR	296-5122-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	4208.00/2,000		
SN74ALVC162334DL	296-1511-5-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	3.71	2.97	2.31
SN74ALVC162334DLR	296-1511-1-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	3.71	2.97	2.31
SN74ALVC162334DLR	296-1511-2-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	2104.00/1,000		
SN74ALVC162831DBBR	296-5125-1-ND	Tri-St. 1-4 Bit Address Register/Driver	80-TVSOP	5.80	4.64	3.92
SN74ALVC162831DBBR	296-5125-2-ND	Tri-St. 1-4 Bit Address Register/Driver	80-TVSOP	7250.00/2,000		
SN74ALVC162834DL	296-1512-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.81	2.25	1.75
SN74ALVC162834DLR	296-1512-1-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.81	2.25	1.75
SN74ALVC162834DLR	296-1512-2-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	1594.00/1,000		
SN74ALVC162834GR	296-5126-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2.81	2.25	1.75
SN74ALVC162834GR	296-5126-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	3188.00/2,000		
SN74ALVC162834VR	296-5127-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2.81	2.25	1.75
SN74ALVC162834VR	296-5127-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	3188.00/2,000		
SN74ALVC162835DGGR	296-1132-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1.38	1.10	.83
SN74ALVC162835DGGR	296-1132-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1430.00/2,000		
SN74ALVC162835DGVR	296-5128-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	1.38	1.10	.83
SN74ALVC162835DGVR	296-5128-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	1430.00/2,000		
SN74ALVC162835DL	296-1513-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	1.38	1.10	.83
SN74ALVC162836DGGR	296-1133-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	3.71	2.97	2.31
SN74ALVC162836DGGR	296-1133-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	4208.00/2,000		
SN74ALVC162836DGVR	296-5129-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	3.71	2.97	2.31
SN74ALVC162836DGVR	296-5129-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	4208.00/2,000		
SN74ALVC162836DL	296-1514-5-ND	Tri-State 20-Bit Universal Bus Driver	56-SSOP	3.71	2.97	2.31
SN74ALVC164245DGGR	296-1135-1-ND	Tri-State 16-Bit Level Shift Transceiver	48-TSSOP	1.12	.94	.75
SN74ALVC164245DGGR	296-1135-2-ND	Tri-State 16-Bit Level Shift Transceiver	48-SSOP	994.00/2,000		
SN74ALVC164245DL	296-5131-5-ND	Tri-State 16-Bit Level Shift Transceiver	48-SSOP	1.14	.95	.76
SN74ALVC164245DLR	296-14781-1-ND	Tri-State 16-Bit Level Shift Transceiver	48-SSOP	1.12	.94	.75
SN74ALVC164245DLR	296-14781-2-ND	Tri-State 16-Bit Level Shift Transceiver	48-SSOP	497.00/1,000		
SN74ALVC16835GQLR	296-9773-1-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	2.97	2.38	1.85
SN74ALVC16835GQLR	296-9773-2-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	1683.00/1,000		
SN74ALVC164245KR	296-15395-1-ND	Tri-State 16-Bit Level Shift Transceiver	48-VFBGA	2.25	1.80	1.35
SN74ALVC164245KR	296-15395-2-ND	Tri-State 16-Bit Level Shift Transceiver	48-VFBGA	1170.00/1,000		
SN74ALVCF162834GR	296-13628-1-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TSSOP	1.75	1.40	1.05
SN74ALVCF162834GR	296-13628-2-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TSSOP	1820.00/2,000		
SN74ALVCF162834LR	296-13629-1-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-SSOP	1.75	1.40	1.05
SN74ALVCF162834LR	296-13629-2-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-SSOP	910.00/1,000		
SN74ALVCF162834VR	296-13630-1-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TVSOP	1.75	1.40	1.05
SN74ALVCF162834VR	296-13630-2-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TVSOP	1820.00/2,000		
SN74ALVCF162835GR	296-13607-1-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TSSOP	2.25	1.80	1.35
SN74ALVCF162835GR	296-13607-2-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TSSOP	2340.00/2,000		
SN74ALVCF162835LR	296-13608-1-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-SSOP	2.25	1.80	1.35
SN74ALVCF162835LR	296-13608-2-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-SSOP	1170.00/1,000		
SN74ALVCF162835VR	296-13609-1-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TVSOP	2.25	1.80	1.35
SN74ALVCF162835VR	296-13609-2-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TVSOP	2340.00/2,000		
ALVCH Family						
74ALVCH16244GRDR	296-16870-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	2.40	1.92	1.44
74ALVCH16244GRDR	296-16870-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	1248.00/1,000		
74ALVCH16244ZQLR	296-23182-1-ND	Tri-State 16-Bit Buffer/Driver ***NEW!***	56-VFBGA	1.60	1.28	.96
74ALVCH16244ZQLR	296-23182-2-ND	Tri-State 16-Bit Buffer/Driver ***NEW!***	56-VFBGA	832.00/1,000		
74ALVCH16244ZRDR	296-16871-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	1.60	1.28	.96
74ALVCH16244ZRDR	296-16871-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	832.00/1,000		
74ALVCH16245GRDR	296-16872-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	2.40	1.92	1.44
74ALVCH16245GRDR	296-16872-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	1248.00/1,000		
74ALVCH16245ZQLR	296-23183-1-ND	Tri-St. 16-Bit Bus Transceiver ***NEW!***	56-VFBGA	1.60	1.28	.96
74ALVCH16245ZQLR	296-23183-2-ND	Tri-St. 16-Bit Bus Transceiver ***NEW!***	56-VFBGA	832.00/1,000		
74ALVCH16245ZRDR	296-16873-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	1.60	1.28	.96
74ALVCH16245ZRDR	296-16873-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	832.00/1,000		
74ALVCH16373GRDR	296-16874-1-ND	Tri-State 16-Bit Transparent D-Type Latch	54-BGA	2.40	1.92	1.44
74ALVCH16373GRDR	296-16874-2-ND	Tri-State 16-Bit Transparent D-Type Latch	54-BGA	1248.00/1,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ALVCH16373ZQLR	296-23184-1-ND	Tri-State 16-Bit Transparent D-Type Latch ***NEW!***	56-VFBGA	1.60	1.28	.96
74ALVCH16373ZQLR	296-23184-2-ND	Tri-State 16-Bit Transparent D-Type Latch ***NEW!***	56-VFBGA	832.00/1,000		
74ALVCH16373ZRDR	296-16875-1-ND	Tri-State 16-Bit Transparent D-Type Latch	54-BGA	1.60	1.28	.96
74ALVCH16373ZRDR	296-16875-2-ND	Tri-State 16-Bit Transparent D-Type Latch	54-BGA	832.00/1,000		
74ALVCH32244ZKER	296-23185-1-ND	Tri-State 32-Bit Buffer/Driver ***NEW!***	96-LFBGA	3.38	2.70	2.10
74ALVCH32244ZKER	296-23185-2-ND	Tri-State 32-Bit Buffer/Driver ***NEW!***	96-LFBGA	1913.00/1,000		
74ALVCH32245ZKER	296-23186-1-ND	Tri-St. 32-Bit Bus Transceiver ***NEW!***	96-LFBGA	3.38	2.70	2.10
74ALVCH32245ZKER	296-23186-2-ND	Tri-St. 32-Bit Bus Transceiver ***NEW!***	96-LFBGA	1913.00/1,000		
74ALVCH32501ZKFR	296-19762-1-ND	Tri-State 36-Bit Universal Bus Transceiver	114-LFBGA	6.00	4.80	4.05
74ALVCH32501ZKFR	296-19762-2-ND	Tri-State 36-Bit Universal Bus Transceiver	114-LFBGA	3750.00/1,000		
74ALVCH32973ZKER	296-18282-1-ND	16-Bit Bus Transceiver and Transparent D-Type Latch	96-LFBGA	3.38	2.70	2.10
74ALVCH32973ZKER	296-18282-2-ND	16-Bit Bus Transceiver and Transparent D-Type Latch	96-LFBGA	1913.00/1,000		
CALVCH16245IDLREP	296-19493-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2.52	2.02	1.57
CALVCH16245IDLREP	296-19493-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1428.00/1,000		
CALVCH16245MDLREP	296-22094-1-ND	Tri-State 16-Bit Bus Transceiver ***NEW!***	48-SSOP	5.62	4.50	3.80
CALVCH16245MDLREP	296-22094-2-ND	Tri-State 16-Bit Bus Transceiver ***NEW!***	48-SSOP	3513.00/1,000		
CALVCH16827MDLREP	296-22095-1-ND	Tri-State 20-Bit Buffer/Driver ***NEW!***	56-SSOP	5.62	4.50	3.80
CALVCH16827MDLREP	296-22095-2-ND	Tri-State 20-Bit Buffer/Driver ***NEW!***	56-SSOP	3513.00/1,000		
SN74ALVCH244DGVR	296-6274-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.66	.50	.38
SN74ALVCH244DGVR	296-6274-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	438.00/2,000		
SN74ALVCH244DW	296-1517-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74ALVCH244DWR	296-1517-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74ALVCH244DWR	296-1517-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	400.00/2,000		
SN74ALVCH244PWR	296-6275-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.60	.45	.34
SN74ALVCH244PWR	296-6275-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	400.00/2,000		
SN74ALVCH245DGVR	296-6276-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.66	.50	.38
SN74ALVCH245DGVR	296-6276-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	438.00/2,000		
SN74ALVCH245DWR	296-6277-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74ALVCH245DWR	296-6277-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	532.00/2,000		
SN74ALVCH245PWR	296-6278-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.60	.45	.34
SN74ALVCH245PWR	296-6278-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	400.00/2,000		
SN74ALVCH373DGVR	296-6283-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.88	.66	.50
SN74ALVCH373DGVR	296-6283-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	586.00/2,000		
SN74ALVCH373DWR	296-6284-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.80	.60	.45
SN74ALVCH373DWR	296-6284-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	532.00/2,000		
SN74ALVCH373GQNR	296-15400-1-ND	Tri-State Octal Transp. D-Type Latch	20-VFBGA	1.14	.95	.76
SN74ALVCH373GQNR	296-15400-2-ND	Tri-State Octal Transp. D-Type Latch	20-VFBGA	505.00/1,000		
SN74ALVCH373PWR	296-6285-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.80	.60	.45
SN74ALVCH373PWR	296-6285-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	532.00/2,000		
SN74ALVCH373ZQNR	296-23239-1-ND	Tri-St. Octal Transparent D-Type Latch ***NEW!***	20-VFBGA	.80	.60	.45
SN74ALVCH373ZQNR	296-23239-2-ND	Tri-St. Octal Transparent D-Type Latch ***NEW!***	20-VFBGA	266.00/1,000		
SN74ALVCH374PWR	296-12462-1-ND	Tri-State Octal Pos. Edge-Triggered D-Type Flip-Flop	20-TSSOP	.92	.69	.52
SN74ALVCH374PWR	296-12462-2-ND	Tri-State Octal Pos. Edge-Triggered D-Type Flip-Flop	20-TSSOP	612.00/2,000		
SN74ALVCH16240DGGR	296-5185-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.25	1.00	.75
SN74ALVCH16240DGGR	296-5185-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1300.00/2,000		
SN74ALVCH16240DL	296-5186-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.25	1.00	.75
SN74ALVCH16240DLR	296-5186-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.25	1.00	.75
SN74ALVCH16240DLR	296-5186-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	650.00/1,000		
SN74ALVCH16244DGGR	296-1139-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.02	.86	.69
SN74ALVCH16244DGGR	296-1139-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	908.00/2,000		
SN74ALVCH16244DGVR	296-5187-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.25	1.00	.75
SN74ALVCH16244DGVR	296-5187-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1300.00/2,000		
SN74ALVCH16244DL	296-5188-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.25	1.00	.75
SN74ALVCH16244DLR	296-5188-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.25	1.00	.75
SN74ALVCH16244DLR	296-5188-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	650.00/1,000		
SN74ALVCH16244KR	296-5189-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1.88	1.50	1.13
SN74ALVCH16244KR	296-5189-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	975.00/1,000		
SN74ALVCH16245DGGR	296-5190-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.02	.86	.69
SN74ALVCH16245DGGR	296-5190-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	908.00/2,000		
SN74ALVCH16245DGVR	296-5191-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.25	1.00	.75
SN74ALVCH16245DGVR	296-5191-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1300.00/2,000		
SN74ALVCH16245DL	296-5192-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.25	1.00	.75
SN74ALVCH16245DLR	296-5192-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.25	1.00	.75
SN74ALVCH16245DLR	296-5192-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	650.00/1,000		
SN74ALVCH16245KR	296-5193-1-ND	Tri-State 16-Bit Bus Transceiver	48-BGA	1.88	1.50	1.13
SN74ALVCH16245KR	296-5193-2-ND	Tri-State 16-Bit Bus Transceiver	48-BGA	975.00/1,000		
SN74ALVCH16260DGGR	296-1140-1-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1.25	1.00	.75
SN74ALVCH16260DGGR	296-1140-2-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1300.00/2,000		
SN74ALVCH16260DLR	296-1141-1-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	1.25	1.00	.75
SN74ALVCH16260DLR	296-1141-2-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	650.00/1,000		
SN74ALVCH16269DGGR	296-5198-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1.75	1.40	1.05
SN74ALVCH16269DGGR	296-5198-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1820.00/2,000		
SN74ALVCH16269DL	296-5199-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1.75	1.40	1.05
SN74ALVCH16269KR	296-9775-1-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-VFBGA	2.36	1.89	1.47
SN74ALVCH16269KR	296-9775-2-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-VFBGA	1339.00/1,000		
SN74ALVCH16270DGGR	296-5200-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1.75	1.40	1.05
SN74ALVCH16270DGGR	296-5200-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1820.00/2,000		
SN74ALVCH16270DL	296-5201-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1.75	1.40	1.05
SN74ALVCH16270DLR	296-5201-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1.75	1.40	1.05
SN74ALVCH16270DLR	296-5201-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	910.00/1,000		
SN74ALVCH16271DGGR	296-5202-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	3.85	3.08	2.40
SN74ALVCH16271DGGR	296-5202-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	4360.00/2,000		
SN74ALVCH16271DL	296-5203-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	3.85	3.08	2.40
SN74ALVCH16282DBBR	296-5210-1-ND	Tri-State 18-36-Bit Registered Bus Exchanger	80-SOP	7.50	6.00	5.07
SN74ALVCH16282DBBR	296-5210-2-ND	Tri-State 18-36-Bit Registered Bus Exchanger	80-SOP	9376.00/2,000		
SN74ALVCH16334DGGR	296-5220-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	3.71	2.97	2.31
SN74ALVCH16334DGGR	296-5220-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	4208.00/2,000		
SN74ALVCH16334DGVR	296-12869-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	3.71	2.97	2.31
SN74ALVCH16334DGVR	296-12869-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	4208.00/2,000		
SN74ALVCH16334DL	296-5221-5-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	3.71	2.97	2.31
SN74ALVCH16344DGGR	296-5222-1-ND	Tri-State 1-4-Bit Address Driver	56-TSSOP	3.71	2.97	2.31
SN74ALVCH16344DGGR	296-5222-2-ND	Tri-State 1-4-Bit Address Driver	56-TSSOP	4208.00/2,000		
SN74ALVCH16344DLR	296-5223-1-ND	Tri-State 1-4-Bit Address Driver	56-SSOP	3.71	2.97	2.31
SN74ALVCH16344DLR	296-5223-2-ND	Tri-State 1-4-Bit Address Driver	56-SSOP	2104.00/1,000		
SN74ALVCH16373DGGR	296-5224-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.25	1.00	.75
SN74ALVCH16373DGGR	296-5224-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1300.00/2,000		
SN74ALVCH16373DL	296-5225-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.25	1.00	.75
SN74ALVCH16373DLR	296-14784-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.25	1.00	.75
SN74ALVCH16373DLR	296-14784-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	650.00/1,000		
SN74ALVCH16373KR	296-9776-1-ND	Tri-State 16-Bit Transp. D-Type Latch	56-VFBGA	2.05	1.64	1.23
SN74ALVCH16373KR	296-9776-2-ND	Tri-State 16-Bit Transp. D-Type Latch	56-VFBGA	1066.00/1,000		
SN74ALVCH16374DGGR	296-1144-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1.02	.86	.69
SN74ALVCH16374DGGR	296-1144-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	908.00/2,000		
SN74ALVCH16374DGVR	296-23238-1-ND	Tri-St. 16-Bit Edge-Triggered D-Type Flip-Flop ***NEW!***	48-TVSOP	1.25	1.00	.75
SN74ALVCH16374DGVR	296-23238-2-ND	Tri-St. 16-Bit Edge-Triggered D-Type Flip-Flop ***NEW!***	48-TVSOP	1300.00/2,000		
SN74ALVCH16374DL	296-5226-5-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1.25	1.00	.75
SN74ALVCH16374DLR	296-5226-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1.25	1.00	.75
SN74ALVCH16374DLR	296-5226-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	650.00/1,000		
SN74ALVCH16374KR	296-9777-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	2.00	1.60	1.20
SN74ALVCH16374KR	296-9777-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	1040.00/1,000		
SN74ALVCH16409DGGR	296-5227-1-ND	Tri-State 9-Bit 4-Port Universal Bus Exchanger	56-TSSOP	1.38	1.10	.83
SN74ALVCH16409DGGR	296-5227-2-ND	Tri-State 9-Bit 4-Port Universal Bus Exchanger	56-TSSOP	1430.00/2,000		
SN74ALVCH16409DL	296-5228-5-ND	Tri-State 9-Bit 4-Port Universal Bus Exchanger	56-SSOP	1.38	1.10	.83
SN74ALVCH16500DGGR	296-5229-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.38	1.10	.83
SN74ALVCH16500DGGR	296-5229-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1430.00/2,000		
SN74ALVCH16500DLR	296-5230-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.38	1.10	.83
SN74ALVCH16500DLR	296-5230-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	715.00/1,000		
SN74ALVCH16501DGGR	296-1145-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.38	1.10	.83
SN74ALVCH16501DGGR	296-1145-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1430.00/2,000		
SN74ALVCH16501DL	296-5231-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.38	1.10	.83
SN74ALVCH16501KR	296-9778-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-VFBGA	2.25	1.80	1.35
SN74ALVCH16501KR	296-9778-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-VFBGA	1170.00/1,000		
SN74ALVCH16524DGGR	296-5232-1-ND	Tri-State 18-Bit Registered Bus Transceiver	56-TSSOP	8.00	6.40	5.40
SN74ALVCH16524DGGR	296-5232-2-ND	Tri-State 18-Bit Registered Bus Transceiver	56-TSSOP	10000.00/2,000		
SN74ALVCH16524DL	296-12870-5-ND	Tri-State 16-Bit Universal Bus Driver	56-SSOP	8.00	6.40	5.40
SN74ALVCH16525DL	296-12871-5-ND	Tri-State 18-Bit Registered Bus Transceiver	56-SSOP	1.88	1.50	1.13
SN74ALVCH16525DGGR	296-5233-1-ND	Tri-St. 18-Bit Registered Bus Transcvr	56-TSSOP	1.88	1.50	1.13
SN74ALVCH16525DGGR	296-5233-2-ND	Tri-St. 18-Bit Registered Bus Transcvr	56-TSSOP	1950.00/2,000		
SN74ALVCH16543DGGR	296-5236-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1.63	1.30	.98
SN74ALVCH16543DGGR	296-5236-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1690.00/2,000		
SN74ALVCH16543DL	296-5237-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.63	1.30	.98
SN74ALVCH16543DLR	296-14785-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.63	1.30	.98
SN74ALVCH16543DLR	296-14785-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	845.00/1,000		
SN74ALVCH16600DGGR	296-5238-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	4.84	3.87	3.01
SN74ALVCH16600DGGR	296-5238-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	5482.00/2,000		
SN74ALVCH16600DLR	296-5239-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4.84	3.87	3.01
SN74ALVCH16600DLR	296-5239-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2741.00/1,000		
SN74ALVCH16601DGGR	296-1146-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.63	1.30	.98
SN74ALVCH16601DGGR	296-1146-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1690.00/2,000		
SN74ALVCH16601DL	296-5240-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.63	1.30	.98
SN74ALVCH16601DLR	296-5241-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.63	1.30	.98
SN74ALVCH16601DLR	296-5241-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	845.00/1,000		
SN74ALVCH16646DGGR	296-5242-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TSSOP	2.13	1.70	1.28
SN74ALVCH16646DGGR	296-5242-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TSSOP	2210.00/2,000		
SN74ALVCH16646DGVR	296-5243-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	2.13	1.70	1.28
SN74ALVCH16646DGVR	296-5243-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	2210.00/2,000		
SN74ALVCH16646DL	296-5244-5-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.13	1.70	1.28
SN74ALVCH16646DLR	296-5244-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.13	1.70	1.28
SN74ALVCH16646DLR	296-5244-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1105.00/1,000		
SN74ALVCH16721DGGR	296-1147-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TSSOP	1.63	1.30	.98
SN74ALVCH16721DGGR	296-1147-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TSSOP	1690.00/2,000		
SN74ALVCH16721DGVR	296-5245-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TVSOP	1.63	1.30	.98
SN74ALVCH16721DGVR	296-5245-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TVSOP	1690.00/2,000		
SN74ALVCH16721DLR	296-5246-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-SSOP	1.63	1.30	.98
SN74ALVCH16721DLR	296-5246-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-SSOP	845.00/1,000		
SN74ALVCH16820DGGR	296-5247-1-ND	Tri-State Dual Output 3.3V, 10-Bit F/F	56-TSSOP	3.49	2.79	2.17
SN74ALVCH16820DGGR	296-5247-2-ND	Tri-State Dual Output 3.3V, 10-Bit F/F	56-TSSOP	3952.00/2,000		
SN74ALVCH16820DLR	296-5248-1-ND	Tri-State Dual Output 3.3V, 10-Bit F/F	56-SSOP	3.49	2.79	2.17
SN74ALVCH16820DLR	296-5248-2-ND	Tri-State Dual Output 3.3V, 10-Bit F/F	56-SSOP	1976.00/1,000		
SN74ALVCH16821DGGR	296-5249-1-ND	Tri-State 3.3V, 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3.49	2.79	2.17
SN74ALVCH16821DGGR	296-5249-2-ND	Tri-State 3.3V, 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3952.00/2,000		
SN74ALVCH16821DL	296-5250-5-ND	Tri-St. 3.3V, 20-Bit Bus-Interface F/F	56-SSOP	3.49	2.79	2.17
SN74ALVCH16821DLR	296-5250-1-ND	Tri-State 3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	3.49	2.79	2.17

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALVCH16821DLR	296-5250-2-ND	Tri-State 3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	1976.00/1,000		
SN74ALVCH16823DGGR	296-1148-1-ND	Tri-State 18-Bit Bus Interface Flip-Flop	56-TSSOP	2.32	1.86	1.45
SN74ALVCH16823DGGR	296-1148-2-ND	Tri-State 18-Bit Bus Interface Flip-Flop	56-TSSOP	2634.00/2,000		
SN74ALVCH16823DGVR	296-12872-1-ND	Tri-State 18-Bit Bus Interface Flip-Flop	56-TVSOP	2.32	1.86	1.45
SN74ALVCH16823DGVR	296-12872-2-ND	Tri-State 18-Bit Bus Interface Flip-Flop	56-TVSOP	2634.00/2,000		
SN74ALVCH16823DL	296-5251-5-ND	Tri-State 18-Bit Bus Interface Flip-Flop	56-SSOP	2.32	1.86	1.45
SN74ALVCH16823DLR	296-14786-1-ND	Tri-State 18-Bit Bus Interface Flip-Flop	56-SSOP	2.32	1.86	1.45
SN74ALVCH16823DLR	296-14786-2-ND	Tri-State 18-Bit Bus Interface Flip-Flop	56-SSOP	1317.00/1,000		
SN74ALVCH16825DGGR	296-5252-1-ND	Tri-State 18-Bit Buffer/Driver	56-TSSOP	1.75	1.40	1.05
SN74ALVCH16825DGGR	296-5252-2-ND	Tri-State 18-Bit Buffer/Driver	56-TSSOP	1820.00/2,000		
SN74ALVCH16825DL	296-5253-5-ND	Tri-State 18-Bit Buffer/Driver	56-SSOP	1.75	1.40	1.05
SN74ALVCH16827DGGR	296-5254-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1.88	1.50	1.13
SN74ALVCH16827DGGR	296-5254-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1950.00/2,000		
SN74ALVCH16827DL	296-5255-5-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	1.88	1.50	1.13
SN74ALVCH16831DBBR	296-5256-1-ND	Tri-State 1-4 Address Register/Driver	80-TVSOP	5.80	4.64	3.92
SN74ALVCH16831DBBR	296-5256-2-ND	Tri-State 1-4 Address Register/Driver	80-TVSOP	7250.00/2,000		
SN74ALVCH16832DGGR	296-5257-1-ND	Tri-State 1-4 Address Register/Driver	64-TSSOP	5.80	4.64	3.92
SN74ALVCH16832DGGR	296-5257-2-ND	Tri-State 1-4 Address Register/Driver	64-TSSOP	7250.00/2,000		
SN74ALVCH16835DGGR	296-1149-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1.50	1.20	.90
SN74ALVCH16835DGGR	296-1149-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1560.00/2,000		
SN74ALVCH16835DGVR	296-5258-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	1.50	1.20	.90
SN74ALVCH16835DGVR	296-5258-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	1560.00/2,000		
SN74ALVCH16835DLR	296-5259-1-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	1.50	1.20	.90
SN74ALVCH16835DLR	296-5259-2-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	780.00/1,000		
SN74ALVCH16835KR	296-5260-1-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	2.48	1.98	1.49
SN74ALVCH16835KR	296-5260-2-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	1287.00/1,000		
SN74ALVCH16841DGGR	296-6261-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	4.50	3.60	2.80
SN74ALVCH16841DGGR	296-6261-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	5100.00/2,000		
SN74ALVCH16841DL	296-6266-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	3.71	2.97	2.31
SN74ALVCH16863DGGR	296-6267-1-ND	Tri-State 18-Bit Transceiver	56-TSSOP	3.71	2.97	2.31
SN74ALVCH16863DGGR	296-6267-2-ND	Tri-State 18-Bit Transceiver	56-TSSOP	4208.00/2,000		
SN74ALVCH16863DLR	296-6268-1-ND	Tri-State 18-Bit Transceiver	56-SSOP	3.71	2.97	2.31
SN74ALVCH16863DLR	296-6268-2-ND	Tri-State 18-Bit Transceiver	56-SSOP	2104.00/1,000		
SN74ALVCH16901DGGR	296-6269-1-ND	18-Bit Universal Bus Transceiver with Parity-Generator/Checker	64-TSSOP	3.38	2.70	2.10
SN74ALVCH16901DGGR	296-6269-2-ND	18-Bit Universal Bus Transceiver with Parity-Generator/Checker	64-TSSOP	3826.00/2,000		
SN74ALVCH16903DGGR	296-6270-1-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-TSSOP	8.50	6.80	5.74
SN74ALVCH16903DGGR	296-6270-2-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-TSSOP	10626.00/2,000		
SN74ALVCH16903DGVR	296-6271-1-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-TVSOP	8.50	6.80	5.74
SN74ALVCH16903DGVR	296-6271-2-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-TVSOP	10626.00/2,000		
SN74ALVCH16903DL	296-12873-5-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-SSOP	8.50	6.80	5.74
SN74ALVCH16952DGGR	296-9780-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1.38	1.10	.83
SN74ALVCH16952DGGR	296-9780-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1430.00/2,000		
SN74ALVCH16952DGVR	296-6272-1-ND	Tri-State 16-Bit Registered Transceiver	56-TVSOP	1.50	1.20	.90
SN74ALVCH16952DGVR	296-6272-2-ND	Tri-State 16-Bit Registered Transceiver	56-TVSOP	1560.00/2,000		
SN74ALVCH16952DL	296-6273-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.38	1.10	.83
SN74ALVCH16952DLR	296-6273-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.38	1.10	.83
SN74ALVCH16952DLR	296-6273-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	715.00/1,000		
SN74ALVCH16973DGGR	296-15397-1-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-TSSOP	2.59	2.07	1.61
SN74ALVCH16973DGGR	296-15397-2-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-TSSOP	2932.00/2,000		
SN74ALVCH16973DGVR	296-15398-1-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-TVSOP	2.59	2.07	1.61
SN74ALVCH16973DGVR	296-15398-2-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-TVSOP	2932.00/2,000		
SN74ALVCH16973DLR	296-15399-1-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-SSOP	2.59	2.07	1.61
SN74ALVCH16973DLR	296-15399-2-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-SSOP	1466.00/1,000		
SN74ALVCH32244KR	296-6279-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	5.18	4.14	3.22
SN74ALVCH32244KR	296-6279-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2933.00/1,000		
SN74ALVCH32245KR	296-6280-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	5.18	4.14	3.22
SN74ALVCH32245KR	296-6280-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2933.00/1,000		
SN74ALVCH32374KR	296-6281-1-ND	Tri-State 32-Bit D-Type Flip-Flop	96-LFBGA	5.18	4.14	3.22
SN74ALVCH32374KR	296-6281-2-ND	Tri-State 32-Bit D-Type Flip-Flop	96-LFBGA	2933.00/1,000		
SN74ALVCH32501KR	296-6282-1-ND	Tri-State 36-Bit Univ. Bus Transceiver	114-BGA	8.80	7.04	5.94
SN74ALVCH32501KR	296-6282-2-ND	Tri-State 36-Bit Univ. Bus Transceiver	114-BGA	5500.00/1,000		
SN74ALVCH32973KR	296-15321-1-ND	16-Bit Bus Transceiver/Transparent D-Type Latch	96-LFBGA	5.18	4.14	3.22
SN74ALVCH32973KR	296-15321-2-ND	16-Bit Bus Transceiver/Transparent D-Type Latch	96-LFBGA	2933.00/1,000		
SN74ALVCH162244DLR	296-5174-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.25	1.00	.75
SN74ALVCH162244DLR	296-5174-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	650.00/1,000		
SN74ALVCH162244GR	296-5175-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.99	.83	.66
SN74ALVCH162244GR	296-5175-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	878.00/2,000		
SN74ALVCH162260DL	296-5176-5-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	1.38	1.10	.83
SN74ALVCH162260GR	296-1138-1-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1.38	1.10	.83
SN74ALVCH162260GR	296-1138-2-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1430.00/2,000		
SN74ALVCH162268DL	296-5177-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1.38	1.10	.83
SN74ALVCH162268GR	296-5178-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1.38	1.10	.83
SN74ALVCH162268GR	296-5178-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1430.00/2,000		
SN74ALVCH162268KR	296-15396-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-VFBGA	2.25	1.80	1.35
SN74ALVCH162268KR	296-15396-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-VFBGA	1170.00/1,000		
SN74ALVCH162334DL	296-5179-5-ND	Tri-State 16-Bit Univ. Bus Driver	48-SSOP	4.05	3.24	2.52
SN74ALVCH162334GR	296-5180-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	4.05	3.24	2.52
SN74ALVCH162334GR	296-5180-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	4590.00/2,000		
SN74ALVCH162334VR	296-12864-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	4.05	3.24	2.52
SN74ALVCH162334VR	296-12864-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	4590.00/2,000		
SN74ALVCH162344DL	296-5181-5-ND	Tri-State 1-to-4-Bit Address Driver	56-SSOP	1.25	1.00	.75
SN74ALVCH162344GR	296-5182-1-ND	Tri-State 1-to-4-Bit Address Driver	56-TSSOP	1.25	1.00	.75
SN74ALVCH162344GR	296-5182-2-ND	Tri-State 1-to-4-Bit Address Driver	56-TSSOP	1300.00/2,000		
SN74ALVCH162344VR	296-12865-1-ND	Tri-State 1-to-4-Bit Address Driver	56-TVSOP	1.25	1.00	.75
SN74ALVCH162344VR	296-12865-2-ND	Tri-State 1-to-4-Bit Address Driver	56-TVSOP	1300.00/2,000		
SN74ALVCH162373GR	296-18538-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	1.25	1.00	.75
SN74ALVCH162373GR	296-18538-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	1300.00/2,000		
SN74ALVCH162373KR	296-18539-1-ND	Tri-State 16-Bit Transparent D-Type Latch	56-VFBGA	1.88	1.50	1.13
SN74ALVCH162373KR	296-18539-2-ND	Tri-State 16-Bit Transparent D-Type Latch	56-VFBGA	975.00/1,000		
SN74ALVCH162373LR	296-18540-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	1.25	1.00	.75
SN74ALVCH162373LR	296-18540-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	650.00/1,000		
SN74ALVCH162374DL	296-5183-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.25	1.00	.75
SN74ALVCH162374GR	296-5184-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.25	1.00	.75
SN74ALVCH162374GR	296-5184-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1300.00/2,000		
SN74ALVCH162525DL	296-12866-5-ND	Tri-State 18-Bit Registered Transceiver	56-SSOP	2.13	1.70	1.28
SN74ALVCH162525GR	296-5194-1-ND	Tri-State 18-Bit Registered Transceiver	56-TSSOP	2.13	1.70	1.28
SN74ALVCH162525GR	296-5194-2-ND	Tri-State 18-Bit Registered Transceiver	56-TSSOP	2210.00/2,000		
SN74ALVCH162601DL	296-5195-5-ND	Tri-State 18-Bit Registered Transceiver	56-SSOP	1.25	1.00	.75
SN74ALVCH162601DLR	296-14782-1-ND	Tri-State 18-Bit Registered Transceiver	56-SSOP	1.25	1.00	.75
SN74ALVCH162601DLR	296-14782-2-ND	Tri-State 18-Bit Registered Transceiver	56-SSOP	650.00/1,000		
SN74ALVCH162601GR	296-5196-1-ND	Tri-State 18-Bit Registered Transceiver	56-TSSOP	1.25	1.00	.75
SN74ALVCH162601GR	296-5196-2-ND	Tri-State 18-Bit Registered Transceiver	56-TSSOP	1300.00/2,000		
SN74ALVCH162721DLR	296-5204-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-SSOP	3.15	2.52	1.96
SN74ALVCH162721DLR	296-5204-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-SSOP	1785.00/1,000		
SN74ALVCH162721GR	296-5205-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TSSOP	3.15	2.52	1.96
SN74ALVCH162721GR	296-5205-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TSSOP	3570.00/2,000		
SN74ALVCH162820DL	296-5206-5-ND	Tri-State 3.3V, 10-Bit Flip-Flop with Dual Output	56-SSOP	1.75	1.40	1.05
SN74ALVCH162820GR	296-5207-1-ND	Tri-State 3.3V, 10-Bit Flip-Flop with Dual Output	56-TSSOP	1.75	1.40	1.05
SN74ALVCH162820GR	296-5207-2-ND	Tri-State 3.3V, 10-Bit Flip-Flop with Dual Output	56-TSSOP	1820.00/2,000		
SN74ALVCH162827DLR	296-14783-1-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	1.50	1.20	.90
SN74ALVCH162827DLR	296-14783-2-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	780.00/1,000		
SN74ALVCH162827GR	296-1142-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1.50	1.20	.90
SN74ALVCH162827GR	296-1142-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1560.00/2,000		
SN74ALVCH162827VR	296-5209-1-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	1.50	1.20	.90
SN74ALVCH162827VR	296-5209-2-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	1560.00/2,000		
SN74ALVCH162830GR	296-5211-1-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	2.00	1.60	1.20
SN74ALVCH162830GR	296-5211-2-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	2080.00/2,000		
SN74ALVCH162831GR	296-5212-1-ND	Tri-St. 1-4-Bit Address Register/Driver	80-TSSOP	5.84	4.68	3.95
SN74ALVCH162831GR	296-5212-2-ND	Tri-St. 1-4-Bit Address Register/Driver	80-TSSOP	7300.00/2,000		
SN74ALVCH162832GR	296-5213-1-ND	Tri-St. 1-4-Bit Address Register/Driver	64-TSSOP	7.00	5.60	4.73
SN74ALVCH162832GR	296-5213-2-ND	Tri-St. 1-4-Bit Address Register/Driver	64-TSSOP	8750.00/2,000		
SN74ALVCH162835DL	296-5214-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.00	1.60	1.20
SN74ALVCH162835GR	296-5215-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2.00	1.60	1.20
SN74ALVCH162835GR	296-5215-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2080.00/2,000		
SN74ALVCH162835VR	296-12867-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2.00	1.60	1.20
SN74ALVCH162835VR	296-12867-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2080.00/2,000		
SN74ALVCH162836DL	296-12868-5-ND	Tri-State 20-Bit Universal Bus Driver	56-SSOP	3.94	3.15	2.45
SN74ALVCH162836GR	296-5216-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	3.94	3.15	2.45
SN74ALVCH162836GR	296-5216-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	4462.00/2,000		
SN74ALVCH162836VR	296-5217-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	3.94	3.15	2.45
SN74ALVCH162836VR	296-5217-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	4462.00/2,000		
SN74ALVCH162841DL	296-5218-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	2.13	1.70	1.28
SN74ALVCH162841GR	296-5219-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	2.13	1.70	1.28
SN74ALVCH162841GR	296-5219-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	2210.00/2,000		

ALVCHG Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALVCHG162280GR	296-6286-1-ND	Tri-State 16-to-32-Bit Registered Bus Exchanger with Byte Mask	80-TSSOP	9.00	7.20	6.08
SN74ALVCHG162280GR	296-6286-2-ND	Tri-State 16-to-32-Bit Registered Bus Exchanger with Byte Mask	80-TSSOP	11250.00/2,000		
SN74ALVCHG162282GR	296-12874-1-ND	Tri-State 18-to-36-Bit Registered Bus Exchanger	80-TVSOP	9.00	7.20	6.08
SN74ALVCHG162282GR	296-12874-2-ND	Tri-State 18-to-36-Bit Registered Bus Exchanger	80-TVSOP	11250.00/2,000		

ALVCHR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALVCHR16245GR	296-6287-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	.99	.83	.66
SN74ALVCHR16245GR	296-6287-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	878.00/2,000		
SN74ALVCHR16245LR	296-6288-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ALVCHR16245LR	296-6288-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	532.00/1,000		
SN74ALVCHR16269AGR	296-1280-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1.88	1.50	1.13
SN74ALVCHR16269AGR	296-1280-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1950.00/2,000		
SN74ALVCHR16269ALR	296-6289-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1.88	1.50	1.13
SN74ALVCHR16269ALR	296-6289-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	975.00/1,000		
SN74ALVCHR16269AVR	296-6290-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TVSOP	1.88	1.50	1.13
SN74ALVCHR16269AVR	296-6290-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TVSOP	1950.00/2,000		
SN74ALVCHR16409GR	296-12877-1-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-TSSOP	7.90	6.32	5.34
SN74ALVCHR16409GR	296-12877-2-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-TSSOP	9876.00/2,000		
SN74ALVCHR16409LR	296-6291-1-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-SSOP	7.94	6.36	5.36
SN74ALVCHR16409LR	296-6291-2-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-SSOP	4963.00/1,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALVCHR16601GR	296-1150-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.88	1.50	1.13
SN74ALVCHR16601GR	296-1150-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1950.00/2,000		
SN74ALVCHR16601LR	296-6292-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.88	1.50	1.13
SN74ALVCHR16601LR	296-6292-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	975.00/1,000		
SN74ALVCHR16601VR	296-12878-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TVSOP	1.88	1.50	1.13
SN74ALVCHR16601VR	296-12878-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TVSOP	1950.00/2,000		
SN74ALVCHR162245DL	296-12875-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ALVCHR162601DL	296-12876-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4.84	3.87	3.01

ALVCHS Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ALVCHS162830AGR	296-17630-1-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	4.05	3.24	2.52
74ALVCHS162830AGR	296-17630-2-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	4590.00/2,000		
SN74ALVCHS162830GR	296-6293-1-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	4.05	3.24	2.52
SN74ALVCHS162830GR	296-6293-2-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	4590.00/2,000		

ALVTH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ALVTH32244ZKER	296-19856-1-ND	Tri-State 2.5V/3.3V 32-Bit Buffer/Driver	96-LFBGA	1.88	1.50	1.13
74ALVTH32244ZKER	296-19856-2-ND	Tri-State 2.5V/3.3V 32-Bit Buffer/Driver	96-LFBGA	1530.00/1,000		
SN74ALVTH16240DLR	296-6296-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.32	1.10	.88
SN74ALVTH16240DLR	296-6296-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	585.00/1,000		
SN74ALVTH16240GR	296-6297-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1.32	1.10	.88
SN74ALVTH16240GR	296-6297-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1170.00/2,000		
SN74ALVTH16240VR	296-6298-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1.46	1.22	.97
SN74ALVTH16240VR	296-6298-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1290.00/2,000		
SN74ALVTH16244DL	296-1519-5-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.32	1.10	.88
SN74ALVTH16244DLR	296-1519-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.32	1.10	.88
SN74ALVTH16244DLR	296-1519-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	585.00/1,000		
SN74ALVTH16244GR	296-6299-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1.32	1.10	.88
SN74ALVTH16244GR	296-6299-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1170.00/2,000		
SN74ALVTH16244KR	296-6300-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-BGA	2.33	1.86	1.40
SN74ALVTH16244KR	296-6300-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-BGA	1209.00/1,000		
SN74ALVTH16244VR	296-6301-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1.46	1.22	.97
SN74ALVTH16244VR	296-6301-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1290.00/2,000		
SN74ALVTH16245DLR	296-13158-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-SSOP	1.55	1.24	.93
SN74ALVTH16245DLR	296-13158-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-SSOP	806.00/1,000		
SN74ALVTH16245GR	296-13159-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TSSOP	1.55	1.24	.93
SN74ALVTH16245GR	296-13159-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TSSOP	1612.00/2,000		
SN74ALVTH16245KR	296-18541-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	56-VFBGA	6.00	4.80	4.05
SN74ALVTH16245KR	296-18541-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	56-VFBGA	3750.00/1,000		
SN74ALVTH16245VR	296-13160-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TVSOP	1.70	1.36	1.02
SN74ALVTH16245VR	296-13160-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TVSOP	1768.00/2,000		
SN74ALVTH16373DLR	296-6305-1-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-SSOP	1.32	1.10	.88
SN74ALVTH16373DLR	296-6305-2-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-SSOP	585.00/1,000		
SN74ALVTH16373GR	296-6306-1-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-TSSOP	1.32	1.10	.88
SN74ALVTH16373GR	296-6306-2-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-TSSOP	1170.00/2,000		
SN74ALVTH16373KR	296-9782-1-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	56-VFBGA	2.36	1.89	1.47
SN74ALVTH16373KR	296-9782-2-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	56-VFBGA	1339.00/1,000		
SN74ALVTH16373VR	296-6307-1-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-TVSOP	1.46	1.22	.97
SN74ALVTH16373VR	296-6307-2-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-TVSOP	1290.00/2,000		
SN74ALVTH16374DLR	296-6308-1-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-SSOP	1.32	1.10	.88
SN74ALVTH16374DLR	296-6308-2-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-SSOP	585.00/1,000		
SN74ALVTH16374GR	296-6309-1-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-TSSOP	1.32	1.10	.88
SN74ALVTH16374GR	296-6309-2-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-TSSOP	1170.00/2,000		
SN74ALVTH16374KR	296-6310-1-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	56-VFBGA	2.36	1.89	1.47
SN74ALVTH16374KR	296-6310-2-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	56-VFBGA	1339.00/1,000		
SN74ALVTH16374VR	296-6311-1-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-TVSOP	1.46	1.22	.97
SN74ALVTH16374VR	296-6311-2-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-TVSOP	1290.00/2,000		
SN74ALVTH16601DLR	296-6312-1-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-SSOP	3.38	2.70	2.10
SN74ALVTH16601DLR	296-6312-2-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-SSOP	1913.00/1,000		
SN74ALVTH16601GR	296-6313-1-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-TSSOP	3.38	2.70	2.10
SN74ALVTH16601GR	296-6313-2-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-TSSOP	3826.00/2,000		
SN74ALVTH16601VR	296-6314-1-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-TVSOP	3.38	2.70	2.10
SN74ALVTH16601VR	296-6314-2-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-TVSOP	3826.00/2,000		
SN74ALVTH16821DL	296-1520-5-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	3.38	2.70	2.10
SN74ALVTH16821DLR	296-1520-1-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	3.38	2.70	2.10
SN74ALVTH16821DLR	296-1520-2-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	1913.00/1,000		
SN74ALVTH16821GR	296-6315-1-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3.38	2.70	2.10
SN74ALVTH16821GR	296-6315-2-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3826.00/2,000		
SN74ALVTH16821VR	296-6316-1-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-TVSOP	3.38	2.70	2.10
SN74ALVTH16821VR	296-6316-2-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-TVSOP	3826.00/2,000		
SN74ALVTH16827DL	296-6317-5-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	3.38	2.70	2.10
SN74ALVTH16827DLR	296-6317-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	3.38	2.70	2.10
SN74ALVTH16827DLR	296-6317-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	1913.00/1,000		
SN74ALVTH16827GR	296-6318-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TSSOP	3.38	2.70	2.10
SN74ALVTH16827GR	296-6318-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TSSOP	3826.00/2,000		
SN74ALVTH16827VR	296-6319-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TVSOP	3.38	2.70	2.10
SN74ALVTH16827VR	296-6319-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TVSOP	3826.00/2,000		
SN74ALVTH32244KR	296-6320-1-ND	Tri-St. 2.5V/3.3V, 32-Bit Buffer/Driver	96-LFBGA	4.50	3.60	2.80
SN74ALVTH32244KR	296-6320-2-ND	Tri-St. 2.5V/3.3V, 32-Bit Buffer/Driver	96-LFBGA	2550.00/1,000		
SN74ALVTH32373KR	296-6321-1-ND	Tri-State 2.5V/3.3V, 32-Bit Transparent D-Type Latch	96-LFBGA	5.40	4.32	3.36
SN74ALVTH32373KR	296-6321-2-ND	Tri-State 2.5V/3.3V, 32-Bit Transparent D-Type Latch	96-LFBGA	3060.00/1,000		
SN74ALVTH32374KR	296-6322-1-ND	Tri-State 2.5V/3.3V, 32-Bit D-Type Flip-Flop	96-LFBGA	4.95	3.96	3.08
SN74ALVTH32374KR	296-6322-2-ND	Tri-State 2.5V/3.3V, 32-Bit D-Type Flip-Flop	96-LFBGA	2805.00/1,000		
SN74ALVTH162244DL	296-1518-5-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.32	1.10	.88
SN74ALVTH162244GR	296-6294-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1.32	1.10	.88
SN74ALVTH162244GR	296-6294-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1170.00/2,000		
SN74ALVTH162244LR	296-12879-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.32	1.10	.88
SN74ALVTH162244LR	296-12879-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	585.00/1,000		
SN74ALVTH162244VR	296-6295-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1.46	1.22	.97
SN74ALVTH162244VR	296-6295-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1290.00/2,000		
SN74ALVTH162245GR	296-13155-1-ND	Tri-State 2.5V/3.3V, 16-Bit Bus Transceiver	48-TSSOP	1.32	1.10	.88
SN74ALVTH162245GR	296-13155-2-ND	Tri-State 2.5V/3.3V, 16-Bit Bus Transceiver	48-TSSOP	1170.00/2,000		
SN74ALVTH162245LR	296-13156-1-ND	Tri-State 2.5V/3.3V, 16-Bit Bus Transceiver	48-SSOP	1.32	1.10	.88
SN74ALVTH162245LR	296-13156-2-ND	Tri-State 2.5V/3.3V, 16-Bit Bus Transceiver	48-SSOP	585.00/1,000		
SN74ALVTH162245VR	296-13157-1-ND	Tri-State 2.5V/3.3V, 16-Bit Bus Transceiver	48-TVSOP	1.46	1.22	.97
SN74ALVTH162245VR	296-13157-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TVSOP	1290.00/2,000		
SN74ALVTH162827DL	296-6302-5-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	2.93	2.34	1.82
SN74ALVTH162827GR	296-6303-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TSSOP	2.93	2.34	1.82
SN74ALVTH162827GR	296-6303-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TSSOP	3316.00/2,000		
SN74ALVTH162827LR	296-15401-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	2.93	2.34	1.82
SN74ALVTH162827LR	296-15401-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	1658.00/1,000		
SN74ALVTH162827VR	296-6304-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TVSOP	2.93	2.34	1.82
SN74ALVTH162827VR	296-6304-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TVSOP	3316.00/2,000		

ALVTHR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALVTHR16245GR	296-15402-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TSSOP	1.70	1.36	1.02
SN74ALVTHR16245GR	296-15402-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TSSOP	1768.00/2,000		
SN74ALVTHR16245KR	296-18542-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	56-VFBGA	2.48	1.98	1.54
SN74ALVTHR16245KR	296-18542-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	56-VFBGA	1403.00/1,000		
SN74ALVTHR16245LR	296-15403-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-SSOP	1.70	1.36	1.02
SN74ALVTHR16245LR	296-15403-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-SSOP	884.00/1,000		
SN74ALVTHR16245VR	296-15404-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TVSOP	1.88	1.50	1.13
SN74ALVTHR16245VR	296-15404-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr	48-TVSOP	1950.00/2,000		

AS Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AS00DR	296-14787-1-ND	Quad 2-Input NAND Gate	14-SOIC	.87	.73	.58
SN74AS00DR	296-14787-2-ND	Quad 2-Input NAND Gate	14-SOIC	942.50/2,500		
SN74AS00N	296-1521-5-ND	Quad 2-Input NAND Gate	14-Dip	.87	.73	.58
SN74AS02DR	296-14788-1-ND	Quad 2-Input NOR Gate	14-SOIC	1.30	1.04	.78
SN74AS02DR	296-14788-2-ND	Quad 2-Input NOR Gate	14-SOIC	1665.00/2,500		
SN74AS02N	296-14789-5-ND	Quad 2-Input NOR Gate	14-Dip	1.30	1.04	.78
SN74AS04DR	296-14790-1-ND	Hex Inverter	14-SOIC	.87	.73	.58
SN74AS04DR	296-14790-2-ND	Hex Inverter	14-SOIC	942.50/2,500		
SN74AS04N	296-1522-5-ND	Hex Inverter	14-Dip	.87	.73	.58
SN74AS10DR	296-6333-1-ND	Triple 3-Input NAND Gate	14-SOIC	.90	.75	.60
SN74AS10DR	296-6333-2-ND	Triple 3-Input NAND Gate	14-SOIC	975.00/2,500		
SN74AS21NSR	296-13162-1-ND	Dual 4-Input Positive AND Gate	14-SOP	1.29	1.08	.86
SN74AS21NSR	296-13162-2-ND	Dual 4-Input Positive AND Gate	14-SOP	1144.00/2,000		
SN74AS32DR	296-6354-1-ND	Quad 2-Input OR Gate	14-SOIC	.87	.73	.58
SN74AS32DR	296-6354-2-ND	Quad 2-Input OR Gate	14-SOIC	942.50/2,500		
SN74AS32N	296-1524-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.87	.73	.58
SN74AS74AN	296-1525-5-ND	Dual Positive-Edge-Triggered D-Type F/F	14-Dip	1.05	.88	.70
SN74AS138N	296-14793-5-ND	3-8 Line Decoder/Demux	16-Dip	2.00	1.60	1.20
SN74AS151NSR	296-13161-1-ND	1-of-8 Data Selector/Multiplexer	16-SOP	2.00	1.60	1.20
SN74AS151NSR	296-13161-2-ND	1-of-8 Data Selector/Multiplexer	16-SOP	2080.00/2,000		
SN74AS194D	296-6341-5-ND	4-Bit, Bi-Directional Univ. Shift Register	16-SOIC	2.70	2.16	1.68
SN74AS194DR	296-6341-1-ND	4-Bit, Bi-Directional Univ. Shift Register	16-SOP	2.70	2.16	1.68
SN74AS194DR	296-6341-2-ND	4-Bit, Bi-Directional Univ. Shift Register	16-SOP	3780.00/2,500		
SN74AS245N	296-6346-5-ND	Tri-State Octal Bus Transceiver	20-Dip	2.32	1.86	1.45
SN74AS253AD	296-11843-5-ND	Tri-St. Dual 1-of-4 Data Selector/Mux	16-SOIC	2.99	2.40	1.87
SN74AS298ANSR	296-13163-1-ND	Quad 2-Input Multiplexer with Storage	16-SOP	2.59	2.07	1.61
SN74AS298ANSR	296-13163-2-ND	Quad 2-Input Multiplexer with Storage	16-SOP	2932.00/2,000		
SN74AS373N	296-6355-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	2.25	1.80	1.40
SN74AS645N	296-14794-5-ND	Tri-State Octal Bus Transceiver	20-Dip	3.24	2.60	2.02
SN74AS757N	296-12180-5-ND	Octal Buffer/Line Driver with OC Output	20-Dip	6.16	4.93	4.16
SN74AS760DWR	296-14795-1-ND	Octal Buffer/Line Driver with OC Output	20-SOIC	4.12	3.30	2.57
SN74AS760DWR	296-14795-2-ND	Octal Buffer/Line Driver with OC Output	20-SOIC	4666.00/2,000		
SN74AS1000ADR	296-14791-1-ND	Quad 2-Input NAND Buffer/Driver	14-SOIC	1.65	1.32	.99
SN74AS1000ADR	296-14791-2-ND	Quad 2-Input NAND Buffer/Driver	14-SOIC	2112.50/2,500		
SN74AS1004ADR	296-14792-1-ND	Hex Inverting Driver	14-SOIC	1.65	1.32	.99
SN74AS1004ADR	296-14792-2-ND	Hex Inverting Driver	14-SOIC	2112.50/2,500		

AUC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CAUC1G125MDCKREP	296-22096-1-ND	Tri-State Single Bus Buffer Gate ***NEW!***	SC70-5	.92	.70	.52
CAUC1G125MDCKREP	296-22096-2-ND	Tri-State Single Bus Buffer Gate ***NEW!***	SC70-5	900.00/3,000		
SN74AUC1G00DBVR	296-13164-1-ND	Single 2-Input Positive NAND Gate	SOT-23-5	.50	.41	.28
SN74AUC1G00DBVR	296-13164-2-ND	Single 2-Input Positive NAND Gate	SOT-23-5	393.00/3,000		
SN74AUC1G00DCKR	296-13165-1-ND	Single 2-Input Positive NAND Gate	SC70-5	.50	.41	.28
SN74AUC1G00DCKR	296-13165-2-ND	Single 2-Input Positive NAND Gate	SC70-5	393.00/3,000		
SN74AUC1G00DRLR	296-19319-1-ND	Single 2-Input Positive NAND Gate	SOT-5	.50	.41	.28
SN74AUC1G00DRLR	296-19319-2-ND	Single 2-Input Positive NAND Gate	SOT-5	524.00/4,000		
SN74AUC1G00YEAR	296-15422-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.96	.72	.54
SN74AUC1G00YEAR	296-15422-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	936.00/3,000		
SN74AUC1G00YEPR	296-18545-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.96	.72	.54
SN74AUC1G00YEPR	296-18545-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	936.00/3,000		
SN74AUC1G00YZPR	296-18546-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.48	.36	.27
SN74AUC1G00YZPR	296-18546-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	468.00/3,000		
SN74AUC1G02DBVR	296-13166-1-ND	Single 2-Input Positive NOR Gate	SOT-23-5	.50	.41	.28
SN74AUC1G02DBVR	296-13166-2-ND	Single 2-Input Positive NOR Gate	SOT-23-5	393.00/3,000		
SN74AUC1G02DCKR	296-13167-1-ND	Single 2-Input Positive NOR Gate	SC70-5	.50	.41	.28
SN74AUC1G02DCKR	296-13167-2-ND	Single 2-Input Positive NOR Gate	SC70-5	393.00/3,000		
SN74AUC1G02DRLR	296-18710-1-ND	Single 2-Input Positive NOR Gate	SOT-5	.50	.41	.28
SN74AUC1G02DRLR	296-18710-2-ND	Single 2-Input Positive NOR Gate	SOT-5	524.00/4,000		
SN74AUC1G02YEAR	296-13724-1-ND	Single 2-Input Positive NOR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G02YEAR	296-13724-2-ND	Single 2-Input Positive NOR Gate	5-DSBGA	936.00/3,000		
SN74AUC1G02YEPR	296-18547-1-ND	Single 2-Input Positive NOR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G02YEPR	296-18547-2-ND	Single 2-Input Positive NOR Gate	5-DSBGA	936.00/3,000		
SN74AUC1G04DBVR	296-13168-1-ND	Single Inverter Gate	SOT-23-5	.50	.41	.28
SN74AUC1G04DBVR	296-13168-2-ND	Single Inverter Gate	SOT-23-5	393.00/3,000		
SN74AUC1G04DCKR	296-13169-1-ND	Single Inverter Gate	SC70-5	.50	.41	.28
SN74AUC1G04DCKR	296-13169-2-ND	Single Inverter Gate	SC70-5	393.00/3,000		
SN74AUC1G04DRLR	296-18313-1-ND	Single Inverter Gate	SOT-5	.50	.41	.28
SN74AUC1G04DRLR	296-18313-2-ND	Single Inverter Gate	SOT-5	524.00/4,000		
SN74AUC1G04YEAR	296-13725-1-ND	Single Inverter Gate	5-DSBGA	.96	.72	.54
SN74AUC1G04YEAR	296-13725-2-ND	Single Inverter Gate	5-DSBGA	936.00/3,000		
SN74AUC1G04YEPR	296-15260-1-ND	Single Inverter Gate	5-DSBGA	.96	.72	.54
SN74AUC1G04YEPR	296-15260-2-ND	Single Inverter Gate	5-DSBGA	936.00/3,000		
SN74AUC1G04YZAR	296-14350-1-ND	Single Inverter Gate	5-DSBGA	.96	.72	.54

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AUC1G04YZAR	296-14350-2-ND	Single Inverter Gate	5-DSBGA	936.00/3,000		
SN74AUC1G04YZPR	296-15261-1-ND	Single Inverter Gate	5-DSBGA	.48	.36	.27
SN74AUC1G04YZPR	296-15261-2-ND	Single Inverter Gate	5-DSBGA	468.00/3,000		
SN74AUC1G06DBVR	296-12652-1-ND	Single Inverter Buffer/Driver with Open Drain Output	SOT-23-5	.50	.41	.28
SN74AUC1G06DBVR	296-12652-2-ND	Single Inverter Buffer/Driver with Open Drain Output	SOT-23-5	393.00/3,000		
SN74AUC1G06DCKR	296-12653-1-ND	Single Inverter Buffer/Driver with Open Drain Output	SC70-5	.50	.41	.28
SN74AUC1G06DCKR	296-12653-2-ND	Single Inverter Buffer/Driver with Open Drain Output	SC70-5	393.00/3,000		
SN74AUC1G06YEAR	296-15423-1-ND	Single Inverter Buffer/Driver with Open Drain Output	5-DSBGA	.96	.72	.54
SN74AUC1G06YEAR	296-15423-2-ND	Single Inverter Buffer/Driver with Open Drain Output	5-DSBGA	936.00/3,000		
SN74AUC1G06YZPR	296-18548-1-ND	Single Inverter Buffer/Driver with Open Drain Output	5-DSBGA	.48	.36	.27
SN74AUC1G06YZPR	296-18548-2-ND	Single Inverter Buffer/Driver with Open Drain Output	5-DSBGA	468.00/3,000		
SN74AUC1G07DBVR	296-12463-1-ND	Single Buffer/Driver with Open Drain Output	SOT-23-5	.50	.41	.28
SN74AUC1G07DBVR	296-12463-2-ND	Single Buffer/Driver with Open Drain Output	SOT-23-5	393.00/3,000		
SN74AUC1G07DCKR	296-12464-1-ND	Single Buffer/Driver with Open Drain Output	SC70-5	.50	.41	.28
SN74AUC1G07DCKR	296-12464-2-ND	Single Buffer/Driver with Open Drain Output	SC70-5	393.00/3,000		
SN74AUC1G07YEAR	296-13726-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	.96	.72	.54
SN74AUC1G07YEAR	296-13726-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	936.00/3,000		
SN74AUC1G07YEPR	296-18549-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	.96	.72	.54
SN74AUC1G07YEPR	296-18549-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	936.00/3,000		
SN74AUC1G07YZAR	296-14014-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	.96	.72	.54
SN74AUC1G07YZAR	296-14014-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	936.00/3,000		
SN74AUC1G07YZPR	296-18550-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	.48	.36	.27
SN74AUC1G07YZPR	296-18550-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	468.00/3,000		
SN74AUC1G08DBVR	296-13170-1-ND	Single 2-Input Positive AND Gate	SOT-23-5	.50	.41	.28
SN74AUC1G08DBVR	296-13170-2-ND	Single 2-Input Positive AND Gate	SOT-23-5	393.00/3,000		
SN74AUC1G08DCKR	296-13171-1-ND	Single 2-Input Positive AND Gate	SC70-5	.50	.41	.28
SN74AUC1G08DCKR	296-13171-2-ND	Single 2-Input Positive AND Gate	SC70-5	393.00/3,000		
SN74AUC1G08DRLR	296-18294-1-ND	Single 2-Input Positive AND Gate	SOT-5	.50	.41	.28
SN74AUC1G08DRLR	296-18294-2-ND	Single 2-Input Positive AND Gate	SOT-5	524.00/4,000		
SN74AUC1G08YEAR	296-15424-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.96	.72	.54
SN74AUC1G08YEAR	296-15424-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	936.00/3,000		
SN74AUC1G08YEPR	296-15098-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.96	.72	.54
SN74AUC1G08YEPR	296-15098-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	936.00/3,000		
SN74AUC1G08YZAR	296-14015-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.96	.72	.54
SN74AUC1G08YZAR	296-14015-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	936.00/3,000		
SN74AUC1G08YZPR	296-15099-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.48	.36	.27
SN74AUC1G08YZPR	296-15099-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	468.00/3,000		
SN74AUC1G14DBVR	296-12880-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.50	.41	.28
SN74AUC1G14DBVR	296-12880-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5	393.00/3,000		
SN74AUC1G14DCKR	296-13172-1-ND	Single Schmitt-Trigger Inverter	SC70-5	.50	.41	.28
SN74AUC1G14DCKR	296-13172-2-ND	Single Schmitt-Trigger Inverter	SC70-5	393.00/3,000		
SN74AUC1G14MDBVREP	296-22292-1-ND	Single Schmitt-Trigger Inverter ***NEW!***	SOT-23-5	1.29	1.08	.86
SN74AUC1G14MDBVREP	296-22292-2-ND	Single Schmitt-Trigger Inverter ***NEW!***	SOT-23-5	1677.00/3,000		
SN74AUC1G14YEAR	296-13727-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.96	.72	.54
SN74AUC1G14YEAR	296-13727-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	936.00/3,000		
SN74AUC1G14YEPR	296-18553-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.96	.72	.54
SN74AUC1G14YEPR	296-18553-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	936.00/3,000		
SN74AUC1G14YZAR	296-14016-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.96	.72	.54
SN74AUC1G14YZAR	296-14016-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	936.00/3,000		
SN74AUC1G14YZPR	296-18554-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.48	.36	.27
SN74AUC1G14YZPR	296-18554-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	468.00/3,000		
SN74AUC1G17DBVR	296-12654-1-ND	Single Schmitt-Trigger Buffer	SOT-23-5	.50	.41	.28
SN74AUC1G17DBVR	296-12654-2-ND	Single Schmitt-Trigger Buffer	SOT-23-5	393.00/3,000		
SN74AUC1G17DCKR	296-13173-1-ND	Single Schmitt-Trigger Buffer	SC70-5	.50	.41	.28
SN74AUC1G17DCKR	296-13173-2-ND	Single Schmitt-Trigger Buffer	SC70-5	393.00/3,000		
SN74AUC1G17DRLR	296-18646-1-ND	Single Schmitt-Trigger Buffer	SOT-5	.50	.41	.28
SN74AUC1G17DRLR	296-18646-2-ND	Single Schmitt-Trigger Buffer	SOT-5	524.00/4,000		
SN74AUC1G17YEAR	296-13728-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.96	.72	.54
SN74AUC1G17YEAR	296-13728-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	936.00/3,000		
SN74AUC1G17YEPR	296-18555-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.96	.72	.54
SN74AUC1G17YEPR	296-18555-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	936.00/3,000		
SN74AUC1G17YZAR	296-14017-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.96	.72	.54
SN74AUC1G17YZAR	296-14017-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	936.00/3,000		
SN74AUC1G17YZPR	296-18556-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.48	.36	.27
SN74AUC1G17YZPR	296-18556-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	468.00/3,000		
SN74AUC1G19DBVR	296-17895-1-ND	1-of-2 Decoder/Demux	SOT-23-6	.50	.41	.28
SN74AUC1G19DBVR	296-17895-2-ND	1-of-2 Decoder/Demux	SOT-23-6	393.00/3,000		
SN74AUC1G19DCKR	296-17896-1-ND	1-of-2 Decoder/Demux	SC70-6	.50	.41	.28
SN74AUC1G19DCKR	296-17896-2-ND	1-of-2 Decoder/Demux	SC70-6	393.00/3,000		
SN74AUC1G19DRLR	296-18711-1-ND	1-of-2 Decoder/Demux	SOT-6	.41	.33	.25
SN74AUC1G19DRLR	296-18711-2-ND	1-of-2 Decoder/Demux	SOT-6	444.00/4,000		
SN74AUC1G19YZPR	296-17897-1-ND	1-of-2 Decoder/Demux	6-WCSP	.50	.38	.29
SN74AUC1G19YZPR	296-17897-2-ND	1-of-2 Decoder/Demux	6-WCSP	489.00/3,000		
SN74AUC1G32DBVR	296-12655-1-ND	Single 2-Input Positive OR Gate	SOT-23-5	.50	.41	.28
SN74AUC1G32DBVR	296-12655-2-ND	Single 2-Input Positive OR Gate	SOT-23-5	393.00/3,000		
SN74AUC1G32DCKR	296-12656-1-ND	Single 2-Input Positive OR Gate	SC70-5	.50	.41	.28
SN74AUC1G32DCKR	296-12656-2-ND	Single 2-Input Positive OR Gate	SC70-5	393.00/3,000		
SN74AUC1G32DRLR	296-18647-1-ND	Single 2-Input Positive OR Gate	SOT-5	.50	.41	.28
SN74AUC1G32DRLR	296-18647-2-ND	Single 2-Input Positive OR Gate	SOT-5	524.00/4,000		
SN74AUC1G32YEAR	296-13729-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G32YEAR	296-13729-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	936.00/3,000		
SN74AUC1G32YEPR	296-18557-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G32YEPR	296-18557-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	936.00/3,000		
SN74AUC1G32YZAR	296-14018-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G32YZAR	296-14018-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	936.00/3,000		
SN74AUC1G32YZPR	296-18558-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.56	.42	.32
SN74AUC1G32YZPR	296-18558-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	546.00/3,000		
SN74AUC1G66DBVR	296-15427-1-ND	Single Bilateral Analog Switch	SOT-23-5	.50	.41	.28
SN74AUC1G66DBVR	296-15427-2-ND	Single Bilateral Analog Switch	SOT-23-5	393.00/3,000		
SN74AUC1G66DCKR	296-15428-1-ND	Single Bilateral Analog Switch	SC70-5	.50	.41	.28
SN74AUC1G66DCKR	296-15428-2-ND	Single Bilateral Analog Switch	SC70-5	393.00/3,000		
SN74AUC1G66YEAR	296-15429-1-ND	Single Bilateral Analog Switch	5-DSBGA	.96	.72	.54
SN74AUC1G66YEAR	296-15429-2-ND	Single Bilateral Analog Switch	5-DSBGA	936.00/3,000		
SN74AUC1G66YZPR	296-21809-1-ND	Single Bilateral Analog Switch	5-WCSP	.96	.72	.54
SN74AUC1G66YZPR	296-21809-2-ND	Single Bilateral Analog Switch	5-WCSP	936.00/3,000		
SN74AUC1G74DCTR	296-18559-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SM8	.56	.42	.32
SN74AUC1G74DCTR	296-18559-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SM8	546.00/3,000		
SN74AUC1G74DCUR	296-18560-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	US8	.56	.42	.32
SN74AUC1G74DCUR	296-18560-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	US8	546.00/3,000		
SN74AUC1G74RSER	296-22774-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset ***NEW!***	8-QFN	.64	.48	.36
SN74AUC1G74RSER	296-22774-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset ***NEW!***	8-QFN	624.00/3,000		
SN74AUC1G74YEPR	296-16733-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.96	.72	.54
SN74AUC1G74YEPR	296-16733-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	936.00/3,000		
SN74AUC1G74YZPR	296-21413-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.64	.48	.36
SN74AUC1G74YZPR	296-21413-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	624.00/3,000		
SN74AUC1G79DBVR	296-15430-1-ND	Single D-Type Flip-Flop	SOT-23-5	.46	.37	.28
SN74AUC1G79DBVR	296-15430-2-ND	Single D-Type Flip-Flop	SOT-23-5	372.00/3,000		
SN74AUC1G79DCKR	296-14309-1-ND	Single D-Type Flip-Flop	SC70-5	.46	.37	.28
SN74AUC1G79DCKR	296-14309-2-ND	Single D-Type Flip-Flop	SC70-5	372.00/3,000		
SN74AUC1G79YEAR	296-14351-1-ND	Single D-Type Flip-Flop	5-DSBGA	.96	.72	.54
SN74AUC1G79YEAR	296-14351-2-ND	Single D-Type Flip-Flop	5-DSBGA	936.00/3,000		
SN74AUC1G79YEPR	296-18561-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	.96	.72	.54
SN74AUC1G79YEPR	296-18561-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	936.00/3,000		
SN74AUC1G79YZPR	296-18562-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	.60	.45	.34
SN74AUC1G79YZPR	296-18562-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	585.00/3,000		
SN74AUC1G80DBVR	296-15431-1-ND	Single D-Type Flip-Flop	SOT-23-5	.46	.37	.28
SN74AUC1G80DBVR	296-15431-2-ND	Single D-Type Flip-Flop	SOT-23-5	372.00/3,000		
SN74AUC1G80DCKR	296-14310-1-ND	Single D-Type Flip-Flop	SC70-5	.46	.37	.28
SN74AUC1G80DCKR	296-14310-2-ND	Single D-Type Flip-Flop	SC70-5	372.00/3,000		
SN74AUC1G80YEAR	296-14352-1-ND	Single D-Type Flip-Flop	5-DSBGA	.96	.72	.54
SN74AUC1G80YEAR	296-14352-2-ND	Single D-Type Flip-Flop	5-DSBGA	936.00/3,000		
SN74AUC1G80YEPR	296-15889-1-ND	Single D-Type Flip-Flop	5-DSBGA	.96	.72	.54
SN74AUC1G80YEPR	296-15889-2-ND	Single D-Type Flip-Flop	5-DSBGA	936.00/3,000		
SN74AUC1G80YZPR	296-15890-1-ND	Single D-Type Flip-Flop	5-DSBGA	.60	.45	.34
SN74AUC1G80YZPR	296-15890-2-ND	Single D-Type Flip-Flop	5-DSBGA	585.00/3,000		
SN74AUC1G86DBVR	296-15432-1-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.50	.41	.28
SN74AUC1G86DBVR	296-15432-2-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	393.00/3,000		
SN74AUC1G86DCKR	296-15433-1-ND	Single 2-Input Exclusive OR Gate	SC70-5	.50	.41	.28
SN74AUC1G86DCKR	296-15433-2-ND	Single 2-Input Exclusive OR Gate	SC70-5	393.00/3,000		
SN74AUC1G86YEAR	296-15434-1-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G86YEAR	296-15434-2-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	936.00/3,000		
SN74AUC1G86YEPR	296-18563-1-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G86YEPR	296-18563-2-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	936.00/3,000		
SN74AUC1G86YZAR	296-15435-1-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G86YZAR	296-15435-2-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	936.00/3,000		
SN74AUC1G86YZPR	296-18564-1-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	.48	.36	.27
SN74AUC1G86YZPR	296-18564-2-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	468.00/3,000		
SN74AUC1G125DBVR	296-12657-1-ND	Tri-State Bus Buffer Gate	SOT-23-5	.50	.41	.28
SN74AUC1G125DBVR	296-12657-2-ND	Tri-State Bus Buffer Gate	SOT-23-5	393.00/3,000		
SN74AUC1G125DCKR	296-12658-1-ND	Tri-State Bus Buffer Gate	SC70-5	.50	.41	.28
SN74AUC1G125DCKR	296-12658-2-ND	Tri-State Bus Buffer Gate	SC70-5	393.00/3,000		
SN74AUC1G125YEAR	296-15425-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	.96	.72	.54
SN74AUC1G125YEAR	296-15425-2-ND	Tri-State Bus Buffer Gate	5-DSBGA	936.00/3,000		
SN74AUC1G125YZAR	296-15426-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	.96	.72	.54
SN74AUC1G125YZAR	296-15426-2-ND	Tri-State Bus Buffer Gate	5-DSBGA	936.00/3,000		
SN74AUC1G125YZPR	296-18551-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	.52	.39	.30
SN74AUC1G125YZPR	296-18551-2-ND	Tri-State Bus Buffer Gate	5-DSBGA	507.00/3,000		
SN74AUC1G126DBVR	296-12659-1-ND	Tri-State Bus Buffer Gate	SOT-23-5	.50	.41	.28
SN74AUC1G126DBVR	296-12659-2-ND	Tri-State Bus Buffer Gate	SOT-23-5	393.00/3,000		
SN74AUC1G126DCKR	296-12660-1-ND	Tri-State Bus Buffer Gate	SC70-5	.50	.41	.28
SN74AUC1G126DCKR	296-12660-2-ND	Tri-State Bus Buffer Gate	SC70-5	393.00/3,000		
SN74AUC1G126YEPR	296-18552-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	.96	.72	.54
SN74AUC1G126YEPR	296-18552-2-ND	Tri-State Bus Buffer Gate	5-DSBGA	936.00/3,000		
SN74AUC1G126YZPR	296-19781-1-ND	Tri-State Bus Buffer Gate	5-WCSP	.48	.36	.27
SN74AUC1G126YZPR	296-19781-2-ND	Tri-State Bus Buffer Gate	5-WCSP	468.00/3,000		
SN74AUC1G240DBVR	296-12661-1-ND	Tri-State Buffer/Driver Gate	SOT-23-5	.46	.37	.28
SN74AUC1G240DBVR	296-12661-2-ND	Tri-State Buffer/Driver Gate	SOT-23-5	372.00/3,000		
SN74AUC1G240DCKR	296-12662-1-ND	Tri-State Buffer/Driver Gate	SC70-5	.50	.41	.28
SN74AUC1G240DCKR	296-12662-2-ND	Tri-State Buffer/Driver Gate	SC70-5	393.00/3,000		
SN74AUC1G240YEPR	296-15100-1-ND	Tri-State Buffer/Driver Gate	5-DSBGA	.96	.72	.54
SN74AUC1G240YEPR	296-15100-2-ND	Tri-State Buffer/Driver Gate	5-DSBGA	936.00/3,000		
SN74AUC1G240YZPR	296-15101-1-ND	Tri-State Buffer/Driver Gate	5-DSBGA	.48	.36	.27
SN74AUC1G240YZPR	296-15101-2-ND	Tri-State Buffer/Driver Gate	5-DSBGA	468.00/3,000		
SN74AUC1GU04DBVR	296-13174-1-ND	Single Inverter Gate	SOT-23-5	.50	.41	.28
SN74AUC1GU04DBVR	296-13174-2-ND	Single Inverter Gate	SOT-23-5	393.00/3,000		
SN74AUC1GU04DCKR	296-13175-1-ND	Single Inverter Gate	SC70-5	.50	.41	.28
SN74AUC1GU04DCKR	296-13175-2-ND	Single Inverter Gate	SC70-5	393.00/3,000		
SN74AUC1GU04YEPR	296-15848-1-ND	Single Inverter Gate	5-DSBGA	.96	.72	.54
SN74AUC1GU04YEPR	296-15848-2-ND	Single Inverter Gate	5-DSBGA	936.00/3,000		
SN74AUC2G00DCTR	296-18565-1-ND	Dual 2-Input Positive NAND Gate	SM8	.66	.50	.38
SN74AUC2G00DCTR	296-18565-2-ND	Dual 2-Input Positive NAND Gate	SM8	645.00/3,000		
SN74AUC2G00DCUR	296-18566-1-ND	Dual 2-Input Positive NAND Gate	US8	.66	.50	.38
SN74AUC2G00DCUR	296-18566-2-ND	Dual 2-Input Positive NAND Gate	US8	645.00/3,000		
SN74AUC2G00YEPR	296-18567-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	.90	.75	.60
SN74AUC2G00YEPR	296-18567-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	1170.00/3,000		
SN74AUC2G00YZPR	296-18568-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	.68	.51	.39

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DIGITAL LOGIC *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUC2G00YZPR	296-18568-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	663.00/3,000		
SN74AUC2G02DCTR	296-18569-1-ND	Dual 2-Input Positive NOR Gate	SM8	.66	.50	.38
SN74AUC2G02DCTR	296-18569-2-ND	Dual 2-Input Positive NOR Gate	SM8	645.00/3,000		
SN74AUC2G02DCUR	296-18570-1-ND	Dual 2-Input Positive NOR Gate	US8	.66	.50	.38
SN74AUC2G02DCUR	296-18570-2-ND	Dual 2-Input Positive NOR Gate	US8	645.00/3,000		
SN74AUC2G02YEPR	296-18571-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.90	.75	.60
SN74AUC2G02YEPR	296-18571-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	1170.00/3,000		
SN74AUC2G02YZPR	296-18572-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.68	.51	.39
SN74AUC2G02YZPR	296-18572-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	663.00/3,000		
SN74AUC2G04DBVR	296-18573-1-ND	Dual Inverter Gate	SOT-23-6	.52	.39	.30
SN74AUC2G04DBVR	296-18573-2-ND	Dual Inverter Gate	SOT-23-6	507.00/3,000		
SN74AUC2G04DCKR	296-16688-1-ND	Dual Inverter Gate	SC70-6	.52	.39	.30
SN74AUC2G04DCKR	296-16688-2-ND	Dual Inverter Gate	SC70-6	507.00/3,000		
SN74AUC2G04YEPR	296-18574-1-ND	Dual Inverter Gate	6-DSBGA	.90	.75	.60
SN74AUC2G04YEPR	296-18574-2-ND	Dual Inverter Gate	6-DSBGA	1170.00/3,000		
SN74AUC2G04YZPR	296-23240-1-ND	Dual Inverter Gate ***NEW!***	6-DSBGA	.68	.51	.39
SN74AUC2G04YZPR	296-23240-2-ND	Dual Inverter Gate ***NEW!***	6-DSBGA	663.00/3,000		
SN74AUC2G06DBVR	296-18575-1-ND	Dual Inverter Buffer/Driver	SOT-23-6	.52	.39	.30
SN74AUC2G06DBVR	296-18575-2-ND	Dual Inverter Buffer/Driver	SOT-23-6	507.00/3,000		
SN74AUC2G06DCKR	296-17052-1-ND	Dual Inverter Buffer/Driver with OD Output	SC-70	.52	.39	.30
SN74AUC2G06DCKR	296-17052-2-ND	Dual Inverter Buffer/Driver with OD Output	SC-70	507.00/3,000		
SN74AUC2G06YEPR	296-18576-1-ND	Dual Inverter Buffer/Driver with OD Output	6-DSBGA	.90	.75	.60
SN74AUC2G06YEPR	296-18576-2-ND	Dual Inverter Buffer/Driver with OD Output	6-DSBGA	1170.00/3,000		
SN74AUC2G06YZPR	296-18577-1-ND	Dual Inverter Buffer/Driver with OD Output	6-DSBGA	.68	.51	.39
SN74AUC2G06YZPR	296-18577-2-ND	Dual Inverter Buffer/Driver with OD Output	6-DSBGA	663.00/3,000		
SN74AUC2G07DBVR	296-15736-1-ND	Dual Buffer/Driver with OD Output	SOT-23-6	.52	.39	.30
SN74AUC2G07DBVR	296-15736-2-ND	Dual Buffer/Driver with OD Output	SOT-23-6	507.00/3,000		
SN74AUC2G07DCKR	296-18763-1-ND	Dual Buffer/Driver with OD Output	SC70-6	.52	.39	.30
SN74AUC2G07DCKR	296-18763-2-ND	Dual Buffer/Driver with OD Output	SC70-6	507.00/3,000		
SN74AUC2G07YEPR	296-18772-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	.90	.75	.60
SN74AUC2G07YEPR	296-18772-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	1170.00/3,000		
SN74AUC2G07YZPR	296-18774-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	.68	.51	.39
SN74AUC2G07YZPR	296-18774-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	663.00/3,000		
SN74AUC2G08DCTR	296-18794-1-ND	Dual 2-Input Positive AND Gate	SM8	.66	.50	.38
SN74AUC2G08DCTR	296-18794-2-ND	Dual 2-Input Positive AND Gate	SM8	645.00/3,000		
SN74AUC2G08DCUR	296-18823-1-ND	Dual 2-Input Positive AND Gate	US8	.66	.50	.38
SN74AUC2G08DCUR	296-18823-2-ND	Dual 2-Input Positive AND Gate	US8	645.00/3,000		
SN74AUC2G08YEPR	296-18863-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	.90	.75	.60
SN74AUC2G08YEPR	296-18863-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	1170.00/3,000		
SN74AUC2G08YZPR	296-17833-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	.68	.51	.39
SN74AUC2G08YZPR	296-17833-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	663.00/3,000		
SN74AUC2G32DCTR	296-18886-1-ND	Dual 2-Input Positive OR Gate	SM8	.66	.50	.38
SN74AUC2G32DCTR	296-18886-2-ND	Dual 2-Input Positive OR Gate	SM8	645.00/3,000		
SN74AUC2G32DCUR	296-18887-1-ND	Dual 2-Input Positive OR Gate	US8	.66	.50	.38
SN74AUC2G32DCUR	296-18887-2-ND	Dual 2-Input Positive OR Gate	US8	645.00/3,000		
SN74AUC2G32YEPR	296-18896-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	.90	.75	.60
SN74AUC2G32YEPR	296-18896-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	1170.00/3,000		
SN74AUC2G32YZPR	296-22013-1-ND	Dual 2-Input Positive OR Gate ***NEW!***	8-WCSP	.68	.51	.39
SN74AUC2G32YZPR	296-22013-2-ND	Dual 2-Input Positive OR Gate ***NEW!***	8-WCSP	663.00/3,000		
SN74AUC2G34DBVR	296-17231-1-ND	Dual Buffer Gate	SOT-23-6	.52	.39	.30
SN74AUC2G34DBVR	296-17231-2-ND	Dual Buffer Gate	SOT-23-6	507.00/3,000		
SN74AUC2G34DCKR	296-18939-1-ND	Dual Buffer Gate	SC70-6	.52	.39	.30
SN74AUC2G34DCKR	296-18939-2-ND	Dual Buffer Gate	SC70-6	507.00/3,000		
SN74AUC2G34DRLR	296-18648-1-ND	Dual Buffer Gate	SOT-6	.66	.50	.38
SN74AUC2G34DRLR	296-18648-2-ND	Dual Buffer Gate	SOT-6	860.00/4,000		
SN74AUC2G34YEPR	296-19050-1-ND	Dual Buffer Gate	6-DSBGA	.90	.75	.60
SN74AUC2G34YEPR	296-19050-2-ND	Dual Buffer Gate	6-DSBGA	1170.00/3,000		
SN74AUC2G34YZPR	296-15981-1-ND	Dual Buffer Gate	6-DSBGA	.68	.51	.39
SN74AUC2G34YZPR	296-15981-2-ND	Dual Buffer Gate	6-DSBGA	226.00/1,000		
SN74AUC2G53DCTR	296-16634-1-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	SM8	.66	.50	.38
SN74AUC2G53DCTR	296-16634-2-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	SM8	645.00/3,000		
SN74AUC2G53DCUR	296-19051-1-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	US8	.66	.50	.38
SN74AUC2G53DCUR	296-19051-2-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	US8	645.00/3,000		
SN74AUC2G53YZPR	296-19052-1-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	8-DSBGA	.68	.51	.39
SN74AUC2G53YZPR	296-19052-2-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux	8-DSBGA	663.00/3,000		
SN74AUC2G53YZTR	296-23241-1-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux ***NEW!***	8-DSBGA	.80	.60	.45
SN74AUC2G53YZTR	296-23241-2-ND	SPDT Analog Switch or 2:1 Analog Mux/Demux ***NEW!***	8-DSBGA	780.00/3,000		
SN74AUC2G66DCTR	296-19053-1-ND	Dual Bilateral Analog Switch	SM8	.66	.50	.38
SN74AUC2G66DCTR	296-19053-2-ND	Dual Bilateral Analog Switch	SM8	645.00/3,000		
SN74AUC2G66DCUR	296-19054-1-ND	Dual Bilateral Analog Switch	US8	.66	.50	.38
SN74AUC2G66DCUR	296-19054-2-ND	Dual Bilateral Analog Switch	US8	645.00/3,000		
SN74AUC2G66YZPR	296-19055-1-ND	Dual Bilateral Analog Switch	8-DSBGA	.68	.51	.39
SN74AUC2G66YZPR	296-19055-2-ND	Dual Bilateral Analog Switch	8-DSBGA	663.00/3,000		
SN74AUC2G79DCTR	296-19056-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	.66	.50	.38
SN74AUC2G79DCTR	296-19056-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	645.00/3,000		
SN74AUC2G79DCUR	296-19057-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	.66	.50	.38
SN74AUC2G79DCUR	296-19057-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	645.00/3,000		
SN74AUC2G79YEPR	296-16640-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.90	.75	.60
SN74AUC2G79YEPR	296-16640-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1170.00/3,000		
SN74AUC2G79YZPR	296-16641-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.68	.51	.39
SN74AUC2G79YZPR	296-16641-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	663.00/3,000		
SN74AUC2G80DCTR	296-19058-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	.66	.50	.38
SN74AUC2G80DCTR	296-19058-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	645.00/3,000		
SN74AUC2G80DCUR	296-19059-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	.66	.50	.38
SN74AUC2G80DCUR	296-19059-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	645.00/3,000		
SN74AUC2G80YEPR	296-16817-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.90	.75	.60
SN74AUC2G80YEPR	296-16817-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1170.00/3,000		
SN74AUC2G80YZPR	296-16818-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.68	.51	.39
SN74AUC2G80YZPR	296-16818-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	663.00/3,000		
SN74AUC2G86DCTR	296-19060-1-ND	Dual 2-Input Exclusive OR Gate	SM8	.66	.50	.38
SN74AUC2G86DCTR	296-19060-2-ND	Dual 2-Input Exclusive OR Gate	SM8	645.00/3,000		
SN74AUC2G86DCUR	296-16836-1-ND	Dual 2-Input Exclusive OR Gate	US8	.66	.50	.38
SN74AUC2G86DCUR	296-16836-2-ND	Dual 2-Input Exclusive OR Gate	US8	645.00/3,000		
SN74AUC2G86YEPR	296-19061-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	.90	.75	.60
SN74AUC2G86YEPR	296-19061-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	1170.00/3,000		
SN74AUC2G86YZPR	296-19062-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	.68	.51	.39
SN74AUC2G86YZPR	296-19062-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	663.00/3,000		
SN74AUC2G125DCTR	296-18881-1-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	.66	.50	.38
SN74AUC2G125DCTR	296-18881-2-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	645.00/3,000		
SN74AUC2G125DCUR	296-17925-1-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	.66	.50	.38
SN74AUC2G125DCUR	296-17925-2-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	645.00/3,000		
SN74AUC2G125YZPR	296-16800-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.68	.51	.39
SN74AUC2G125YZPR	296-16800-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	663.00/3,000		
SN74AUC2G126DCTR	296-18885-1-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	.66	.50	.38
SN74AUC2G126DCTR	296-18885-2-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	645.00/3,000		
SN74AUC2G126DCUR	296-18970-1-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	.66	.50	.38
SN74AUC2G126DCUR	296-18970-2-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	645.00/3,000		
SN74AUC2G126YZPR	296-16801-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.68	.51	.39
SN74AUC2G126YZPR	296-16801-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	663.00/3,000		
SN74AUC2G240DCTR	296-19038-1-ND	Tri-State Dual Buffer/Driver	8-SSOP	.66	.50	.38
SN74AUC2G240DCTR	296-19038-2-ND	Tri-State Dual Buffer/Driver	8-SSOP	645.00/3,000		
SN74AUC2G240DCUR	296-18882-1-ND	Tri-State Dual Buffer/Driver	8-VSSOP	.66	.50	.38
SN74AUC2G240DCUR	296-18882-2-ND	Tri-State Dual Buffer/Driver	8-VSSOP	645.00/3,000		
SN74AUC2G240YZPR	296-16802-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.68	.51	.39
SN74AUC2G240YZPR	296-16802-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	663.00/3,000		
SN74AUC2G241DCTR	296-18883-1-ND	Tri-State Dual Buffer/Driver	8-SSOP	.66	.50	.38
SN74AUC2G241DCTR	296-18883-2-ND	Tri-State Dual Buffer/Driver	8-SSOP	645.00/3,000		
SN74AUC2G241DCUR	296-18884-1-ND	Tri-State Dual Buffer/Driver	8-VSSOP	.66	.50	.38
SN74AUC2G241DCUR	296-18884-2-ND	Tri-State Dual Buffer/Driver	8-VSSOP	645.00/3,000		
SN74AUC2G241YEPR	296-16803-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.90	.75	.60
SN74AUC2G241YEPR	296-16803-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1170.00/3,000		
SN74AUC2GU04DBVR	296-19063-1-ND	Dual Inverter Gate	SOT-23-6	.52	.39	.30
SN74AUC2GU04DBVR	296-19063-2-ND	Dual Inverter Gate	SOT-23-6	507.00/3,000		
SN74AUC2GU04YZPR	296-19064-1-ND	Dual Inverter Gate	6-DSBGA	.68	.51	.39
SN74AUC2GU04YZPR	296-19064-2-ND	Dual Inverter Gate	6-DSBGA	663.00/3,000		
SN74AUC00RGYR	296-16749-1-ND	Quad 2-Input Positive NAND Gate	14-QFN	.88	.66	.50
SN74AUC00RGYR	296-16749-2-ND	Quad 2-Input Positive NAND Gate	14-QFN	293.00/1,000		
SN74AUC02RGYR	296-16750-1-ND	Quad 2-Input Positive NOR Gate	14-QFN	.88	.66	.50
SN74AUC02RGYR	296-16750-2-ND	Quad 2-Input Positive NOR Gate	14-QFN	293.00/1,000		
SN74AUC04RGYR	296-16751-1-ND	Hex Inverter	14-QFN	.88	.66	.50
SN74AUC04RGYR	296-16751-2-ND	Hex Inverter	14-QFN	293.00/1,000		
SN74AUC06RGYR	296-16752-1-ND	Hex Inverter Buffer/Driver with OD Output	14-QFN	.88	.66	.50
SN74AUC06RGYR	296-16752-2-ND	Hex Inverter Buffer/Driver with OD Output	14-QFN	293.00/1,000		
SN74AUC07RGYR	296-17007-1-ND	Hex Buffer/Driver with OD Output	14-QFN	.88	.66	.50
SN74AUC07RGYR	296-17007-2-ND	Hex Buffer/Driver with OD Output	14-QFN	293.00/1,000		
SN74AUC08RGYR	296-16753-1-ND	Quad 2-Input Positive AND Gate	14-QFN	.88	.66	.50
SN74AUC08RGYR	296-16753-2-ND	Quad 2-Input Positive AND Gate	14-QFN	293.00/1,000		
SN74AUC14RGYR	296-18265-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.88	.66	.50
SN74AUC14RGYR	296-18265-2-ND	Hex Schmitt-Trigger Inverter	14-QFN	293.00/1,000		
SN74AUC17RGYR	296-18544-1-ND	Hex Schmitt-Trigger Buffer	14-QFN	.88	.66	.50
SN74AUC17RGYR	296-18544-2-ND	Hex Schmitt-Trigger Buffer	14-QFN	293.00/1,000		
SN74AUC32RGYR	296-16754-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.88	.66	.50
SN74AUC32RGYR	296-16754-2-ND	Quad 2-Input Positive OR Gate	14-QFN	293.00/1,000		
SN74AUC34RGYR	296-19066-1-ND	Hex Buffer Gate	14-QFN	.88	.66	.50
SN74AUC34RGYR	296-19066-2-ND	Hex Buffer Gate	14-QFN	293.00/1,000		
SN74AUC74RGYR	296-17820-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-QFN	.88	.66	.50
SN74AUC74RGYR	296-17820-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-QFN	293.00/1,000		
SN74AUC125RGYR	296-17121-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.99	.83	.66
SN74AUC125RGYR	296-17121-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	439.00/1,000		
SN74AUC126RGYR	296-18543-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.99	.83	.66
SN74AUC126RGYR	296-18543-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	439.00/1,000		
SN74AUC240RGYR	296-15436-1-ND	Tri-State Octal Buffer/Driver	20-QFN	1.44	1.20	.96
SN74AUC240RGYR	296-15436-2-ND	Tri-State Octal Buffer/Driver	20-QFN	638.00/1,000		
SN74AUC244RGYR	296-15437-1-ND	Tri-State Octal Buffer/Driver	20-QFN	1.44	1.20	.96
SN74AUC244RGYR	296-15437-2-ND	Tri-State Octal Buffer/Driver	20-QFN	638.00/1,000		
SN74AUC245GQNR	296-17032-1-ND	Tri-State Octal Bus Transceiver	20-VFBGA	1.80	1.44	1.08
SN74AUC245GQNR	296-17032-2-ND	Tri-State Octal Bus Transceiver	20-VFBGA	936.00/1,000		
SN74AUC245RGYR	296-15438-1-ND	Tri-State Octal Bus Transceiver	20-QFN	1.44	1.20	.96
SN74AUC245RGYR	296-15438-2-ND	Tri-State Octal Bus Transceiver	20-QFN	638.00/1,000		
SN74AUC245ZQNR	296-19284-1-ND	Tri-State Octal Bus Transceiver	20-VFBGA	1.44	1.20	.96
SN74AUC245ZQNR	296-19284-2-ND	Tri-State Octal Bus Transceiver	20-VFBGA	638.00/1,000		
SN74AUC16240DGGR	296-15408-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.13	1.70	1.28
SN74AUC16240DGGR	296-15408-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2210.00/2,000		
SN74AUC16240DGVR	296-15409-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.13	1.70	1.28
SN74AUC16240DGVR	296-15409-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2210.00/2,000		
SN74AUC16240GQLR	296-15410-1-ND	Tri-State 16-Bit Buffer/Driver	48-VFBGA	3.15	2.52	1.96
SN74AUC16240GQLR	296-15410-2-ND	Tri-State 16-Bit Buffer/Driver	48-VFBGA	1785.00/1,000		
SN74AUC16244DGGR	296-15411-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.13	1.70	1.28
SN74AUC16244DGGR	296-15411-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2210.00/2,000		
SN74AUC16244DGVR	296-15412-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.13	1.70	1.28
SN74AUC16244DGVR	296-15412-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2210.00/2,000		
SN74AUC16244ZQLR	296-17031-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	3.72	2.79	2.10
SN74AUC16244ZQLR	296-17031-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1209.00/1,000		
SN74AUC16245DGGR	296-15413-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.13	1.70	1.28
SN74AUC16245DGGR	296-15413-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2210.00/2,000		
SN74AUC16245DGVR	296-15414-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2.13	1.70	1.28
SN74AUC16245DGVR	296-15414-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2210.00/2,000		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUC16245GQLR	296-15415-1-ND	Tri-State 16-Bit Bus Transceiver	48-VFBGA	3.15	2.52	1.96
SN74AUC16245GQLR	296-15415-2-ND	Tri-State 16-Bit Bus Transceiver	48-VFBGA	1785.00/1,000		
SN74AUC16245ZQLR	296-19283-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	2.33	1.86	1.40
SN74AUC16245ZQLR	296-19283-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	1209.00/1,000		
SN74AUC16373DGVR	296-15417-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	2.13	1.70	1.28
SN74AUC16373DGVR	296-15417-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	2210.00/2,000		
SN74AUC16374DGGR	296-15418-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	2.13	1.70	1.28
SN74AUC16374DGGR	296-15418-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	2210.00/2,000		
SN74AUC16374DGVR	296-15419-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	2.13	1.70	1.28
SN74AUC16374DGVR	296-15419-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	2210.00/2,000		
SN74AUC16374GQLR	296-13919-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	3.15	2.52	1.96
SN74AUC16374GQLR	296-13919-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	1785.00/1,000		
SN74AUC16501DGGR	296-15420-1-ND	Tri-St. 18-Bit Universal Bus Transcvr.	56-TSSOP	3.38	2.70	2.10
SN74AUC16501DGGR	296-15420-2-ND	Tri-St. 18-Bit Universal Bus Transcvr.	56-TSSOP	3826.00/2,000		
SN74AUC16501DGVR	296-15421-1-ND	Tri-St. 18-Bit Universal Bus Transcvr.	56-TVSOP	3.38	2.70	2.10
SN74AUC16501DGVR	296-15421-2-ND	Tri-St. 18-Bit Universal Bus Transcvr.	56-TVSOP	3826.00/2,000		
SN74AUC32244GKER	296-15439-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	4.28	3.42	2.66
SN74AUC32244GKER	296-15439-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2423.00/1,000		
SN74AUC32244ZKER	296-23242-1-ND	Tri-St. 32-Bit Buffer/Driver ***NEW!***	96-LFBGA	2.86	2.29	1.78
SN74AUC32244ZKER	296-23242-2-ND	Tri-St. 32-Bit Buffer/Driver ***NEW!***	96-LFBGA	1619.00/1,000		
SN74AUC32245GKER	296-13610-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	4.28	3.42	2.66
SN74AUC32245GKER	296-13610-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2423.00/1,000		
SN74AUC32245ZKER	296-23243-1-ND	Tri-St. 32-Bit Bus Transceiver ***NEW!***	96-LFBGA	2.81	2.25	1.75
SN74AUC32245ZKER	296-23243-2-ND	Tri-St. 32-Bit Bus Transceiver ***NEW!***	96-LFBGA	1594.00/1,000		
SN74AUC32374GKER	296-19065-1-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	4.28	3.42	2.66
SN74AUC32374GKER	296-19065-2-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	2423.00/1,000		

AUCH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUCH240RGYR	296-15443-1-ND	Tri-State Octal Buffer/Driver	20-QFN	1.32	1.10	.88
SN74AUCH240RGYR	296-15443-2-ND	Tri-State Octal Buffer/Driver	20-QFN	585.00/1,000		
SN74AUCH244RGYR	296-19068-1-ND	Tri-State Octal Buffer/Driver	20-QFN	1.32	1.10	.88
SN74AUCH244RGYR	296-19068-2-ND	Tri-State Octal Buffer/Driver	20-QFN	585.00/1,000		
SN74AUCH245RGYR	296-15444-1-ND	Tri-State Octal Bus Transceiver	20-QFN	1.32	1.10	.88
SN74AUCH245RGYR	296-15444-2-ND	Tri-State Octal Bus Transceiver	20-QFN	585.00/1,000		
SN74AUCH16244DGGR	296-15440-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.13	1.70	1.28
SN74AUCH16244DGGR	296-15440-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2210.00/2,000		
SN74AUCH16244DGVR	296-15441-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.13	1.70	1.28
SN74AUCH16244DGVR	296-15441-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2210.00/2,000		
SN74AUCH16244GQLR	296-15442-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	3.15	2.52	1.96
SN74AUCH16244GQLR	296-15442-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1785.00/1,000		
SN74AUCH16374DGGR	296-17625-1-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	48-TSSOP	2.13	1.70	1.28
SN74AUCH16374DGGR	296-17625-2-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	48-TSSOP	2210.00/2,000		
SN74AUCH16374DGVR	296-19067-1-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	48-TVSOP	2.13	1.70	1.28
SN74AUCH16374DGVR	296-19067-2-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	48-TVSOP	2210.00/2,000		
SN74AUCH16374GQLR	296-15251-1-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	56-VFBGA	3.15	2.52	1.96
SN74AUCH16374GQLR	296-15251-2-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	56-VFBGA	1785.00/1,000		
SN74AUCH32244GKER	296-15445-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	4.28	3.42	2.66
SN74AUCH32244GKER	296-15445-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2423.00/1,000		
SN74AUCH32244ZKER	296-23244-1-ND	Tri-St. 32-Bit Buffer/Driver ***NEW!***	96-LFBGA	2.81	2.25	1.75
SN74AUCH32244ZKER	296-23244-2-ND	Tri-St. 32-Bit Buffer/Driver ***NEW!***	96-LFBGA	1594.00/1,000		
SN74AUCH32374GKER	296-17836-1-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	4.28	3.42	2.66
SN74AUCH32374GKER	296-17836-2-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	2423.00/1,000		

AUCU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUCU04RGYR	296-19069-1-ND	Hex Inverter	14-QFN	.88	.66	.50
SN74AUCU04RGYR	296-19069-2-ND	Hex Inverter	14-QFN	293.00/1,000		

AUP Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUP1G00DBVR	296-18581-1-ND	LP Single 2-Input Positive NAND Gate	SOT-23-5	.50	.41	.28
SN74AUP1G00DBVR	296-18581-2-ND	LP Single 2-Input Positive NAND Gate	SOT-23-5	393.00/3,000		
SN74AUP1G00DCKR	296-18200-1-ND	LP Single 2-Input Positive NAND Gate	SC70-5	.50	.41	.28
SN74AUP1G00DCKR	296-18200-2-ND	LP Single 2-Input Positive NAND Gate	SC70-5	393.00/3,000		
SN74AUP1G00DRLR	296-18712-1-ND	LP Single 2-Input Positive NAND Gate	SOT-5	.43	.34	.26
SN74AUP1G00DRLR	296-18712-2-ND	LP Single 2-Input Positive NAND Gate	SOT-5	460.00/4,000		
SN74AUP1G00YZPR	296-17898-1-ND	LP Single 2-Input Positive NAND Gate	5-WCSP	.48	.36	.27
SN74AUP1G00YZPR	296-17898-2-ND	LP Single 2-Input Positive NAND Gate	5-WCSP	468.00/3,000		
SN74AUP1G02DBVR	296-19070-1-ND	LP Single 2-Input Positive NOR Gate	SOT-23-5	.50	.41	.28
SN74AUP1G02DBVR	296-19070-2-ND	LP Single 2-Input Positive NOR Gate	SOT-23-5	393.00/3,000		
SN74AUP1G02DCKR	296-22014-1-ND	LP Single 2-Input Positive NOR Gate ***NEW!***	SC70-5	.50	.41	.28
SN74AUP1G02DCKR	296-22014-2-ND	LP Single 2-Input Positive NOR Gate ***NEW!***	SC70-5	393.00/3,000		
SN74AUP1G02DRLR	296-18649-1-ND	LP Single 2-Input Positive NOR Gate	SOT-5	.43	.34	.26
SN74AUP1G02DRLR	296-18649-2-ND	LP Single 2-Input Positive NOR Gate	SOT-5	460.00/4,000		
SN74AUP1G04DBVR	296-19071-1-ND	Low Power Single Inverter Gate	SOT-23-5	.50	.41	.28
SN74AUP1G04DBVR	296-19071-2-ND	Low Power Single Inverter Gate	SOT-23-5	393.00/3,000		
SN74AUP1G04DCKR	296-19072-1-ND	Low Power Single Inverter Gate	SC70-5	.50	.41	.28
SN74AUP1G04DCKR	296-19072-2-ND	Low Power Single Inverter Gate	SC70-5	393.00/3,000		
SN74AUP1G04DRLR	296-19285-1-ND	Low Power Single Inverter Gate	SOT-5	.43	.34	.26
SN74AUP1G04DRLR	296-19285-2-ND	Low Power Single Inverter Gate	SOT-5	460.00/4,000		
SN74AUP1G06DBVR	296-17561-1-ND	LP Single Inverter Buffer/Driver	SOT-23-5	.40	.32	.24
SN74AUP1G06DBVR	296-17561-2-ND	LP Single Inverter Buffer/Driver	SOT-23-5	324.00/3,000		
SN74AUP1G06DCKR	296-17562-1-ND	Low Power Single Inverter Buffer/Driver	SC70-5	.50	.41	.28
SN74AUP1G06DCKR	296-17562-2-ND	Low Power Single Inverter Buffer/Driver	SC70-5	393.00/3,000		
SN74AUP1G06DRLR	296-21810-1-ND	LP Single Inverter Buffer/Driver	SOT-553-5	.43	.34	.26
SN74AUP1G06DRLR	296-21810-2-ND	LP Single Inverter Buffer/Driver	SOT-553-5	460.00/4,000		
SN74AUP1G07DBVR	296-19073-1-ND	Low Power Single Buffer/Driver	SOT-23-5	.40	.32	.24
SN74AUP1G07DBVR	296-19073-2-ND	Low Power Single Buffer/Driver	SOT-23-5	324.00/3,000		
SN74AUP1G07DCKR	296-18256-1-ND	Low Power Single Buffer/Driver	SC70-5	.50	.41	.28
SN74AUP1G07DCKR	296-18256-2-ND	Low Power Single Buffer/Driver	SC70-5	393.00/3,000		
SN74AUP1G07DRLR	296-21811-1-ND	Low Power Single Buffer/Driver	SOT-553-5	.43	.34	.26
SN74AUP1G07DRLR	296-21811-2-ND	Low Power Single Buffer/Driver	SOT-553-5	460.00/4,000		
SN74AUP1G07YZPR	296-21010-1-ND	Low Power Single Buffer/Driver	5-DSBGA	.48	.36	.27
SN74AUP1G07YZPR	296-21010-2-ND	Low Power Single Buffer/Driver	5-DSBGA	468.00/3,000		
SN74AUP1G08DBVR	296-19074-1-ND	Low Power 2-Input Positive AND Gate	SOT-23-5	.50	.41	.28
SN74AUP1G08DBVR	296-19074-2-ND	Low Power 2-Input Positive AND Gate	SOT-23-5	393.00/3,000		
SN74AUP1G08DCKR	296-19075-1-ND	Low Power 2-Input Positive AND Gate	SC70-5	.50	.41	.28
SN74AUP1G08DCKR	296-19075-2-ND	Low Power 2-Input Positive AND Gate	SC70-5	393.00/3,000		
SN74AUP1G08DRLR	296-18650-1-ND	Low Power 2-Input Positive AND Gate	SOT-5	.43	.34	.26
SN74AUP1G08DRLR	296-18650-2-ND	Low Power 2-InPut Positive AND Gate	SOT-5	460.00/4,000		
SN74AUP1G08YZPR	296-17366-1-ND	Low Power 2-Input Positive AND Gate	5-DSBGA	.48	.36	.27
SN74AUP1G08YZPR	296-17366-2-ND	Low Power 2-Input Positive AND Gate	5-DSBGA	468.00/3,000		
SN74AUP1G14DBVR	296-18213-1-ND	LP Single Schmitt-Trigger Inverter	SOT-23-5	.50	.41	.28
SN74AUP1G14DBVR	296-18213-2-ND	LP Single Schmitt-Trigger Inverter	SOT-23-5	393.00/3,000		
SN74AUP1G14DCKR	296-19076-1-ND	LP Single Schmitt-Trigger Inverter	SC70-5	.50	.41	.28
SN74AUP1G14DCKR	296-19076-2-ND	LP Single Schmitt-Trigger Inverter	SC70-5	393.00/3,000		
SN74AUP1G14DRLR	296-18314-1-ND	LP Single Schmitt-Trigger Inverter	SOT-5	.43	.34	.26
SN74AUP1G14DRLR	296-18314-2-ND	LP Single Schmitt-Trigger Inverter	SOT-5	460.00/4,000		
SN74AUP1G17DBVR	296-19077-1-ND	LP Single Schmitt-Trigger Buffer	SOT-23-5	.50	.41	.28
SN74AUP1G17DBVR	296-19077-2-ND	LP Single Schmitt-Trigger Buffer	SOT-23-5	393.00/3,000		
SN74AUP1G17DCKR	296-18209-1-ND	Low Power Single Schmitt-Trigger Buffer	SC70-5	.50	.41	.28
SN74AUP1G17DCKR	296-18209-2-ND	Low Power Single Schmitt-Trigger Buffer	SC70-5	393.00/3,000		
SN74AUP1G17DRLR	296-18295-1-ND	LP Single Schmitt-Trigger Buffer	SOT-5	.43	.34	.26
SN74AUP1G17DRLR	296-18295-2-ND	LP Single Schmitt-Trigger Buffer	SOT-5	460.00/4,000		
SN74AUP1G17MDCKREP	296-22293-1-ND	LP Single Schmitt-Trigger Buffer ***NEW!***	SC70-5	1.29	1.08	.86
SN74AUP1G17MDCKREP	296-22293-2-ND	LP Single Schmitt-Trigger Buffer ***NEW!***	SC70-5	1677.00/3,000		
SN74AUP1G17YZPR	296-19078-1-ND	LP Single Schmitt-Trigger Buffer	5-DSBGA	.48	.36	.27
SN74AUP1G17YZPR	296-19078-2-ND	LP Single Schmitt-Trigger Buffer	5-DSBGA	468.00/3,000		
SN74AUP1G32DBVR	296-19079-1-ND	LP Single 2-Input Positive OR Gate	SOT-23-5	.50	.41	.28
SN74AUP1G32DBVR	296-19079-2-ND	LP Single 2-Input Positive OR Gate	SOT-23-5	393.00/3,000		
SN74AUP1G32DCKR	296-18714-1-ND	LP Single 2-Input Positive OR Gate	SC70-5	.50	.41	.28
SN74AUP1G32DCKR	296-18714-2-ND	LP Single 2-Input Positive OR Gate	SC70-5	393.00/3,000		
SN74AUP1G32DRLR	296-18315-1-ND	LP Single 2-Input Positive OR Gate	SOT-5	.43	.34	.26
SN74AUP1G32DRLR	296-18315-2-ND	LP Single 2-Input Positive OR Gate	SOT-5	460.00/4,000		
SN74AUP1G32YZPR	296-21016-1-ND	LP Single 2-Input Positive OR Gate	5-DSBGA	.48	.36	.27
SN74AUP1G32YZPR	296-21016-2-ND	LP Single 2-Input Positive OR Gate	5-DSBGA	468.00/3,000		
SN74AUP1G34DBVR	296-19080-1-ND	Low Power Single Buffer Gate	SOT-23-5	.50	.41	.28
SN74AUP1G34DBVR	296-19080-2-ND	Low Power Single Buffer Gate	SOT-23-5	393.00/3,000		
SN74AUP1G34DCKR	296-19081-1-ND	Low Power Single Buffer Gate	SC70-5	.50	.41	.28
SN74AUP1G34DCKR	296-19081-2-ND	Low Power Single Buffer Gate	SC70-5	393.00/3,000		
SN74AUP1G34DRLR	296-18715-1-ND	Low Power Single Buffer Gate	SOT-5	.43	.34	.26
SN74AUP1G34DRLR	296-18715-2-ND	Low Power Single Buffer Gate	SOT-5	460.00/4,000		
SN74AUP1G34YZPR	296-21017-1-ND	Low Power Single Buffer Gate	5-DSBGA	.48	.36	.27
SN74AUP1G34YZPR	296-21017-2-ND	Low Power Single Buffer Gate	5-DSBGA	468.00/3,000		
SN74AUP1G57DBVR	296-19082-1-ND	LP Configurable Multiple Function Gate	SOT-23-6	.45	.36	.27
SN74AUP1G57DBVR	296-19082-2-ND	LP Configurable Multiple Function Gate	SOT-23-6	366.00/3,000		
SN74AUP1G57DCKR	296-19083-1-ND	LP Configurable Multiple Function Gate	SC70-6	.45	.36	.27
SN74AUP1G57DCKR	296-19083-2-ND	LP Configurable Multiple Function Gate	SC70-6	366.00/3,000		
SN74AUP1G57DRLR	296-18716-1-ND	LP Configurable Multiple Function Gate	SOT-6	.45	.36	.27
SN74AUP1G57DRLR	296-18716-2-ND	LP Configurable Multiple Function Gate	SOT-6	488.00/4,000		
SN74AUP1G57YZPR	296-17367-1-ND	LP Configurable Multiple Function Gate	6-DSBGA	.48	.36	.27
SN74AUP1G57YZPR	296-17367-2-ND	LP Configurable Multiple Function Gate	6-DSBGA	468.00/3,000		
SN74AUP1G58DBVR	296-16819-1-ND	LP Configurable Multiple Function Gate	SOT-23-6	.45	.36	.27
SN74AUP1G58DBVR	296-16819-2-ND	LP Configurable Multiple Function Gate	SOT-23-6	366.00/3,000		
SN74AUP1G58DCKR	296-16820-1-ND	LP Configurable Multiple Function Gate	SC70-6	.45	.36	.27
SN74AUP1G58DCKR	296-16820-2-ND	LP Configurable Multiple Function Gate	SC70-6	366.00/3,000		
SN74AUP1G58DRLR	296-18612-1-ND	LP Configurable Multiple Function Gate	SOT-6	.45	.36	.27
SN74AUP1G58DRLR	296-18612-2-ND	LP Configurable Multiple Function Gate	SOT-6	488.00/4,000		
SN74AUP1G58YZPR	296-17368-1-ND	LP Configurable Multiple Function Gate	6-DSBGA	.48	.36	.27
SN74AUP1G58YZPR	296-17368-2-ND	LP Configurable Multiple Function Gate	6-DSBGA	468.00/3,000		
SN74AUP1G74DCUR	296-19761-1-ND	Low Power Single Positive-Edge-Triggered D-Type Flip-Flop	8-US8	.56	.42	.32
SN74AUP1G74DCUR	296-19761-2-ND	Low Power Single Positive-Edge-Triggered D-Type Flip-Flop	8-US8	546.00/3,000		
SN74AUP1G74YZPR	296-22775-1-ND	Low Power Single Positive-Edge-Triggered D-Type Flip-Flop ***NEW!***	8-WCSP	.64	.48	.36
SN74AUP1G74YZPR	296-22775-2-ND	Low Power Single Positive-Edge-Triggered D-Type Flip-Flop ***NEW!***	8-WCSP	624.00/3,000		
SN74AUP1G79DBVR	296-17659-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-23-5	.40	.32	.24
SN74AUP1G79DBVR	296-17659-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-23-5	324.00/3,000		
SN74AUP1G79DCKR	296-17660-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	.40	.32	.24
SN74AUP1G79DCKR	296-17660-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	324.00/3,000		
SN74AUP1G79DRLR	296-19594-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-553	.45	.36	.27
SN74AUP1G79DRLR	296-19594-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-553	488.00/4,000		
SN74AUP1G79YZPR	296-21018-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	.48	.36	.27
SN74AUP1G79YZPR	296-21018-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	468.00/3,000		
SN74AUP1G80DBVR	296-17841-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-23-5	.40	.32	.24
SN74AUP1G80DBVR	296-17841-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-23-5	324.00/3,000		
SN74AUP1G80DCKR	296-19084-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	.40	.32	.24
SN74AUP1G80DCKR	296-19084-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	324.00/3,000		
SN74AUP1G80YZPR	296-21019-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	.48	.36	.27
SN74AUP1G80YZPR	296-21019-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	468.00/3,000		
SN74AUP1G97DBVR	296-19085-1-ND	LP Configurable Multiple Function Gate	SOT-23-6	.45	.36	.27
SN74AUP1G97DBVR	296-19085-2-ND	LP Configurable Multiple Function Gate	SOT-23-6	366.00/3,000		
SN74AUP1G97DCKR	296-19086-1-ND	LP Configurable Multiple Function Gate	SC70-6	.45	.36	.27
SN74AUP1G97DCKR	296-19086-2-ND	LP Configurable Multiple Function Gate	SC70-6	366.00/3,000		
SN74AUP1G97DRLR	296-18316-1-ND	LP Configurable Multiple Function Gate	SOT-6	.45	.36	.27
SN74AUP1G97DRLR	296-18316-2-ND	LP Configurable Multiple Function Gate	SOT-6	488.00/4,000		
SN74AUP1G97YZPR	296-17369-1-ND	LP Configurable Multiple Function Gate	6-DSBGA	.48	.36	.27
SN74AUP1G97YZPR	296-17369-2-ND	LP Configurable Multiple Function Gate	6-DSBGA	468.00/3,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUP1G98DBVR	296-19087-1-ND	LP Configurable Multiple Function Gate	SOT-23-6	.45	.36	.27
SN74AUP1G98DBVR	296-19087-2-ND	LP Configurable Multiple Function Gate	SOT-23-6	366.00/3,000		
SN74AUP1G98DCKR	296-19088-1-ND	LP Configurable Multiple Function Gate	SC70-6	.45	.36	.27
SN74AUP1G98DCKR	296-19088-2-ND	LP Configurable Multiple Function Gate	SC70-6	366.00/3,000		
SN74AUP1G98DRLR	296-18651-1-ND	LP Configurable Multiple Function Gate	SOT-6	.45	.36	.27
SN74AUP1G98DRLR	296-18651-2-ND	LP Configurable Multiple Function Gate	SOT-6	488.00/4,000		
SN74AUP1G98YZPR	296-17370-1-ND	LP Configurable Multiple Function Gate	6-DSBGA	.48	.36	.27
SN74AUP1G98YZPR	296-17370-2-ND	LP Configurable Multiple Function Gate	6-DSBGA	468.00/3,000		
SN74AUP1G99DCTR	296-19089-1-ND	Tri-State Low Power Ultra-Config. Multiple Function Gate	SM8	.56	.42	.32
SN74AUP1G99DCTR	296-19089-2-ND	Tri-State Low Power Ultra-Config. Multiple Function Gate	SM8	546.00/3,000		
SN74AUP1G99DCUR	296-19090-1-ND	Tri-State Low Power Ultra-Config. Multiple Function Gate	US8	.56	.42	.32
SN74AUP1G99DCUR	296-19090-2-ND	Tri-State Low Power Ultra-Config. Multiple Function Gate	US8	546.00/3,000		
SN74AUP1G99YZPR	296-21020-1-ND	Tri-State Low Power Ultra Configurable Multiple Function Gate	8-DSBGA	.56	.42	.32
SN74AUP1G99YZPR	296-21020-2-ND	Tri-State Low Power Ultra Configurable Multiple Function Gate	8-DSBGA	546.00/3,000		
SN74AUP1G125DBVR	296-21011-1-ND	Tri-State LP Single Bus Buffer Gate	SOT-23-5	.50	.41	.28
SN74AUP1G125DBVR	296-21011-2-ND	Tri-State LP Single Bus Buffer Gate	SOT-23-5	393.00/3,000		
SN74AUP1G125DCKR	296-21012-1-ND	Tri-State LP Single Bus Buffer Gate	SC70-5	.50	.41	.28
SN74AUP1G125DCKR	296-21012-2-ND	Tri-State LP Single Bus Buffer Gate	SC70-5	393.00/3,000		
SN74AUP1G125DRLR	296-18713-1-ND	Tri-State LP Single Bus Buffer Gate	SOT-553	.43	.34	.26
SN74AUP1G125DRLR	296-18713-2-ND	Tri-State LP Single Bus Buffer Gate	SOT-553	460.00/4,000		
SN74AUP1G125YZPR	296-21013-1-ND	Tri-State LP Single Bus Buffer Gate	5-DSBGA	.48	.36	.27
SN74AUP1G125YZPR	296-21013-2-ND	Tri-State LP Single Bus Buffer Gate	5-DSBGA	468.00/3,000		
SN74AUP1G125YZTR	296-23245-1-ND	Tri-St. LP Single Bus Buffer Gate ***NEW!***	5-DSBGA	.60	.45	.34
SN74AUP1G125YZTR	296-23245-2-ND	Tri-St. LP Single Bus Buffer Gate ***NEW!***	5-DSBGA	585.00/3,000		
SN74AUP1G126DBVR	296-18005-1-ND	Tri-State LP Single Bus Buffer Gate	SOT-23-5	.50	.41	.28
SN74AUP1G126DBVR	296-18005-2-ND	Tri-State LP Single Bus Buffer Gate	SOT-23-5	393.00/3,000		
SN74AUP1G126DCKR	296-18006-1-ND	Tri-State LP Single Bus Buffer Gate	SC70-5	.50	.41	.28
SN74AUP1G126DCKR	296-18006-2-ND	Tri-State LP Single Bus Buffer Gate	SC70-5	393.00/3,000		
SN74AUP1G126DRLR	296-18603-1-ND	Tri-State LP Single Bus Buffer Gate	SOT-5	.43	.34	.26
SN74AUP1G126DRLR	296-18603-2-ND	Tri-State LP Single Bus Buffer Gate	SOT-5	460.00/4,000		
SN74AUP1G126YZPR	296-21014-1-ND	Tri-State LP Single Bus Buffer Gate	5-DSBGA	.48	.36	.27
SN74AUP1G126YZPR	296-21014-2-ND	Tri-State LP Single Bus Buffer Gate	5-DSBGA	468.00/3,000		
SN74AUP1G240DBVR	296-17917-1-ND	Tri-State, LP, Single Buffer/Driver	SOT-23-5	.40	.32	.24
SN74AUP1G240DBVR	296-17917-2-ND	Tri-State, LP, Single Buffer/Driver	SOT-23-5	324.00/3,000		
SN74AUP1G240DCKR	296-17918-1-ND	Tri-State, LP, Single Buffer/Driver	SC70-5	.40	.32	.24
SN74AUP1G240DCKR	296-17918-2-ND	Tri-State, LP, Single Buffer/Driver	SC70-5	324.00/3,000		
SN74AUP1G240YZPR	296-21015-1-ND	Tri-State, LP, Single Buffer/Driver	5-DSBGA	.56	.42	.32
SN74AUP1G240YZPR	296-21015-2-ND	Tri-State, LP, Single Buffer/Driver	5-DSBGA	546.00/3,000		
SN74AUP1T57DBVR	296-17524-1-ND	Single Supply Voltage Translator	SOT-23-6	.55	.44	.33
SN74AUP1T57DBVR	296-17524-2-ND	Single Supply Voltage Translator	SOT-23-6	447.00/3,000		
SN74AUP1T57DCKR	296-17525-1-ND	Single Supply Voltage Translator	SC70-6	.55	.44	.33
SN74AUP1T57DCKR	296-17525-2-ND	Single Supply Voltage Translator	SC70-6	447.00/3,000		
SN74AUP1T58DBVR	296-17526-1-ND	Single Supply Voltage Translator	SOT-23-6	.55	.44	.33
SN74AUP1T58DBVR	296-17526-2-ND	Single Supply Voltage Translator	SOT-23-6	447.00/3,000		
SN74AUP1T58DCKR	296-17527-1-ND	Single Supply Voltage Translator	SC70-6	.55	.44	.33
SN74AUP1T58DCKR	296-17527-2-ND	Single Supply Voltage Translator	SC70-6	447.00/3,000		
SN74AUP1T97DBVR	296-17563-1-ND	Single Supply Voltage Level Translator	SOT-23-6	.55	.44	.33
SN74AUP1T97DBVR	296-17563-2-ND	Single Supply Voltage Level Translator	SOT-23-6	447.00/3,000		
SN74AUP1T97DCKR	296-17564-1-ND	Single Supply Voltage Level Translator	SC70-6	.55	.44	.33
SN74AUP1T97DCKR	296-17564-2-ND	Single Supply Voltage Level Translator	SC70-6	447.00/3,000		
SN74AUP1T97YZPR	296-17899-1-ND	Single Supply Voltage Level Translator	6-WCSP	.72	.54	.41
SN74AUP1T97YZPR	296-17899-2-ND	Single Supply Voltage Level Translator	6-WCSP	702.00/3,000		
SN74AUP1T98DBVR	296-17528-1-ND	Single Supply Voltage Level Translator	SOT-23-6	.55	.44	.33
SN74AUP1T98DBVR	296-17528-2-ND	Single Supply Voltage Level Translator	SOT-23-6	447.00/3,000		
SN74AUP1T98DCKR	296-17529-1-ND	Single Supply Voltage Level Translator	SC70-6	.55	.44	.33
SN74AUP1T98DCKR	296-17529-2-ND	Single Supply Voltage Level Translator	SC70-6	447.00/3,000		
SN74AUP1T98YZPR	296-21021-1-ND	Single Supply Voltage Level Translator	6-DSBGA	.72	.54	.41
SN74AUP1T98YZPR	296-21021-2-ND	Single Supply Voltage Level Translator	6-DSBGA	702.00/3,000		

AVC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AVCA164245ZQLR	296-17203-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	6.53	5.22	4.06
74AVCA164245ZQLR	296-17203-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	3698.00/1,000		
74AVCAH164245ZQLR	296-17204-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	4.55	3.64	2.83
74AVCAH164245ZQLR	296-17204-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	2576.00/1,000		
74AVCB164245ZQLR	296-18284-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	4.55	3.64	2.83
74AVCB164245ZQLR	296-18284-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	2576.00/1,000		
74AVCB164245ZRDR	296-22003-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver ***NEW!***	54-BGA	4.55	3.64	2.83
74AVCB164245ZRDR	296-22003-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver ***NEW!***	54-BGA	2576.00/1,000		
74AVCB324245ZKER	296-17788-1-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	4.95	3.96	3.08
74AVCB324245ZKER	296-17788-2-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	2805.00/1,000		
74AVCBH324245ZKER	296-18351-1-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	4.95	3.96	3.08
74AVCBH324245ZKER	296-18351-2-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	2805.00/1,000		
74AVCH16T245ZQLR	296-18352-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	3.47	2.78	2.16
74AVCH16T245ZQLR	296-18352-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	1964.00/1,000		
74AVCH20T245ZQLR	296-18353-1-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-VFBGA	3.71	2.97	2.31
74AVCH20T245ZQLR	296-18353-2-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-VFBGA	2104.00/1,000		
SN74AVC1T45DBVR	296-19094-1-ND	Tri-State, Single-Bit Dual Supply, Bus Transceiver	SOT-23-6	.56	.42	.32
SN74AVC1T45DBVR	296-19094-2-ND	Tri-State, Single-Bit Dual Supply, Bus Transceiver	SOT-23-6	546.00/3,000		
SN74AVC1T45DCKR	296-17992-1-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	SC70-6	.70	.56	.42
SN74AVC1T45DCKR	296-17992-2-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	SC70-6	567.00/3,000		
SN74AVC1T45DRLR	296-21022-1-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	SOT-553-6	.64	.48	.36
SN74AVC1T45DRLR	296-21022-2-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	SOT-553-6	832.00/4,000		
SN74AVC1T45YZPR	296-17371-1-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	6-DSBGA	.60	.45	.34
SN74AVC1T45YZPR	296-17371-2-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	6-DSBGA	585.00/3,000		
SN74AVC2T45DCTR	296-17232-1-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-SSOP	.76	.57	.43
SN74AVC2T45DCTR	296-17232-2-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-SSOP	741.00/3,000		
SN74AVC2T45DCUR	296-17993-1-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	US8	.76	.57	.43
SN74AVC2T45DCUR	296-17993-2-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	US8	741.00/3,000		
SN74AVC2T45YZPR	296-17858-1-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-DSBGA	.80	.60	.45
SN74AVC2T45YZPR	296-17858-2-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-DSBGA	780.00/3,000		
SN74AVC4T245DGVR	296-18054-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TVSOP	.90	.75	.60
SN74AVC4T245DGVR	296-18054-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TVSOP	798.00/2,000		
SN74AVC4T245DR	296-17930-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-SOIC	.90	.75	.60
SN74AVC4T245DR	296-17930-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-SOIC	975.00/2,500		
SN74AVC4T245PWR	296-18056-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TSSOP	.90	.75	.60
SN74AVC4T245PWR	296-18056-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TSSOP	798.00/2,000		
SN74AVC4T245RGYR	296-18231-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-QFN	.99	.83	.66
SN74AVC4T245RGYR	296-18231-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-QFN	439.00/1,000		
SN74AVC8T245DGVR	296-18206-1-ND	Tri-State, 8-Bit, Dual Supply, Bus Transceiver	24-TVSOP	1.25	1.00	.75
SN74AVC8T245DGVR	296-18206-2-ND	Tri-State, 8-Bit, Dual Supply, Bus Transceiver	24-TVSOP	1300.00/2,000		
SN74AVC8T245PWR	296-19100-1-ND	Tri-State, 8-Bit, Dual Supply, Bus Transceiver	24-TSSOP	1.25	1.00	.75
SN74AVC8T245PWR	296-19100-2-ND	Tri-State, 8-Bit, Dual Supply, Bus Transceiver	24-TSSOP	1300.00/2,000		
SN74AVC8T245RHLR	296-17859-1-ND	Tri-State, 8-Bit, Dual Supply Bus Transceiver	24-QFN	1.25	1.00	.75
SN74AVC8T245RHLR	296-17859-2-ND	Tri-State, 8-Bit, Dual Supply Bus Transceiver	24-QFN	650.00/1,000		
SN74AVC16T245DGGR	296-18197-1-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	48-TSSOP	3.15	2.52	1.96
SN74AVC16T245DGGR	296-18197-2-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	48-TSSOP	3570.00/2,000		
SN74AVC16T245DGVR	296-19091-1-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	48-TVSOP	3.15	2.52	1.96
SN74AVC16T245DGVR	296-19091-2-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	48-TVSOP	3570.00/2,000		
SN74AVC16T245GQLR	296-19092-1-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	56-VFBGA	5.18	4.14	3.22
SN74AVC16T245GQLR	296-19092-2-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	56-VFBGA	2933.00/1,000		
SN74AVC16T245ZQLR	296-19093-1-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	56-VFBGA	3.47	2.78	2.16
SN74AVC16T245ZQLR	296-19093-2-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	56-VFBGA	1964.00/1,000		
SN74AVC20T245DGGR	296-17299-1-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-TSSOP	3.38	2.70	2.10
SN74AVC20T245DGGR	296-17299-2-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-TSSOP	3826.00/2,000		
SN74AVC20T245DGVR	296-19095-1-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-TVSOP	3.38	2.70	2.10
SN74AVC20T245DGVR	296-19095-2-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-TVSOP	3826.00/2,000		
SN74AVC20T245GQLR	296-19096-1-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-VFBGA	5.00	4.00	3.38
SN74AVC20T245GQLR	296-19096-2-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-VFBGA	3125.00/1,000		
SN74AVC20T245ZQLR	296-19097-1-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-VFBGA	3.71	2.97	2.31
SN74AVC20T245ZQLR	296-19097-2-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-VFBGA	2104.00/1,000		
SN74AVC24T245GRGR	296-17661-1-ND	Tri-State, 24-Bit Dual Supply Bus Transceiver	83-BGA	5.00	4.00	3.38
SN74AVC24T245GRGR	296-17661-2-ND	Tri-State, 24-Bit Dual Supply Bus Transceiver	83-BGA	3125.00/1,000		
SN74AVC24T245ZRGR	296-17662-1-ND	Tri-State, 24-Bit Dual Supply Bus Transceiver	83-BGA	3.76	3.01	2.34
SN74AVC24T245ZRGR	296-17662-2-ND	Tri-State, 24-Bit Dual Supply Bus Transceiver	83-BGA	2129.00/1,000		
SN74AVC32T245GKER	296-19098-1-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-LFBGA	5.00	4.00	3.38
SN74AVC32T245GKER	296-19098-2-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3125.00/1,000		
SN74AVC32T245ZKER	296-19099-1-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3.83	3.06	2.38
SN74AVC32T245ZKER	296-19099-2-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-LFBGA	2168.00/1,000		
SN74AVC32T245ZRLR	296-22776-1-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver ***NEW!***	96-BGA	3.83	3.06	2.38

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AVC32T245ZRLR	296-22776-2-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver ***NEW!***	96-BGA	5355.00/2,500		
SN74AVC16244DGGR	296-9783-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.93	1.54	1.16
SN74AVC16244DGGR	296-9783-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2002.00/2,000		
SN74AVC16244DGVR	296-9784-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	3.60	2.88	2.24
SN74AVC16244DGVR	296-9784-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	4080.00/2,000		
SN74AVC16244GQLR	296-9785-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	3.96	3.17	2.47
SN74AVC16244GQLR	296-9785-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	2244.00/1,000		
SN74AVC16245DGGR	296-12334-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	3.60	2.88	2.24
SN74AVC16245DGGR	296-12334-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	4080.00/2,000		
SN74AVC16245DGVR	296-9786-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	3.60	2.88	2.24
SN74AVC16245DGVR	296-9786-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	4080.00/2,000		
SN74AVC16269DGGR	296-9787-1-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-TSSOP	4.46	3.57	2.78
SN74AVC16269DGGR	296-9787-2-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-TSSOP	5050.00/2,000		
SN74AVC16269DGVR	296-9788-1-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-TVSOP	4.46	3.57	2.78
SN74AVC16269DGVR	296-9788-2-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-TVSOP	5050.00/2,000		
SN74AVC16334DGGR	296-9789-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	3.60	2.88	2.24
SN74AVC16334DGGR	296-9789-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	4080.00/2,000		
SN74AVC16334DGVR	296-9790-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	3.60	2.88	2.24
SN74AVC16334DGVR	296-9790-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	4080.00/2,000		
SN74AVC16373DGGR	296-9791-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	3.60	2.88	2.24
SN74AVC16373DGGR	296-9791-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	4080.00/2,000		
SN74AVC16373DGVR	296-9792-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	3.60	2.88	2.24
SN74AVC16373DGVR	296-9792-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	4080.00/2,000		
SN74AVC16373GQLR	296-9793-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-BGA	3.96	3.17	2.47
SN74AVC16373GQLR	296-9793-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-BGA	2244.00/1,000		
SN74AVC16374DGGR	296-9794-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	3.60	2.88	2.24
SN74AVC16374DGGR	296-9794-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	4080.00/2,000		
SN74AVC16374DGVR	296-9795-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	3.60	2.88	2.24
SN74AVC16374DGVR	296-9795-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	4080.00/2,000		
SN74AVC16374GQLR	296-9796-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	3.96	3.17	2.47
SN74AVC16374GQLR	296-9796-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	2244.00/1,000		
SN74AVC16374ZQLR	296-23246-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop ***NEW!***	56-VFBGA	3.96	3.17	2.47
SN74AVC16374ZQLR	296-23246-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop ***NEW!***	56-VFBGA	2244.00/1,000		
SN74AVC16646DGGR	296-9797-1-ND	Tri-State 16-Bit Bus Xcvr/Register	56-TSSOP	3.38	2.70	2.10
SN74AVC16646DGGR	296-9797-2-ND	Tri-State 16-Bit Bus Xcvr/Register	56-TSSOP	3826.00/2,000		
SN74AVC16646DGVR	296-9798-1-ND	Tri-State 16-Bit Bus Xcvr/Register	56-TSSOP	3.38	2.70	2.10
SN74AVC16646DGVR	296-9798-2-ND	Tri-State 16-Bit Bus Xcvr/Register	56-TSSOP	3826.00/2,000		
SN74AVC16722DGGR	296-9799-1-ND	Tri-State 22-Bit Flip-Flop	64-TSSOP	4.19	3.35	2.61
SN74AVC16722DGGR	296-9799-2-ND	Tri-State 22-Bit Flip-Flop	64-TSSOP	4744.00/2,000		
SN74AVC16827DGGR	296-9800-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	3.38	2.70	2.10
SN74AVC16827DGGR	296-9800-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	3826.00/2,000		
SN74AVC16827DGVR	296-9801-1-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	3.38	2.70	2.10
SN74AVC16827DGVR	296-9801-2-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	3826.00/2,000		
SN74AVC16834DGGR	296-9802-1-ND	Tri-State 18-Bit Univ. Bus Driver	56-TSSOP	2.48	1.98	1.54
SN74AVC16834DGGR	296-9802-2-ND	Tri-State 18-Bit Univ. Bus Driver	56-TSSOP	2806.00/2,000		
SN74AVC16834DGVR	296-9803-1-ND	Tri-State 18-Bit Univ. Bus Driver	56-TVSOP	2.48	1.98	1.54
SN74AVC16834DGVR	296-9803-2-ND	Tri-State 18-Bit Univ. Bus Driver	56-TVSOP	2806.00/2,000		
SN74AVC16835DGGR	296-9804-1-ND	Tri-State 18-Bit Univ. Bus Driver	56-TSSOP	2.48	1.98	1.54
SN74AVC16835DGGR	296-9804-2-ND	Tri-State 18-Bit Univ. Bus Driver	56-TSSOP	2806.00/2,000		
SN74AVC16835DGVR	296-9805-1-ND	Tri-State 18-Bit Univ. Bus Driver	56-TVSOP	2.48	1.98	1.54
SN74AVC16835DGVR	296-9805-2-ND	Tri-State 18-Bit Univ. Bus Driver	56-TVSOP	2806.00/2,000		
SN74AVCA406DGGR	296-18296-1-ND	MMC, SD Card, Memory Stick™ Voltage Translation Transceiver	48-TSSOP	2.00	1.60	1.20
SN74AVCA406DGGR	296-18296-2-ND	MMC, SD Card, Memory Stick™ Voltage Translation Transceiver	48-TSSOP	2080.00/2,000		
SN74AVCA406GQCR	296-17558-1-ND	MMC, SD Card, Memory Stick™ Voltage Translation Transceiver	48-VFBGA	2.97	2.38	1.85
SN74AVCA406GQCR	296-17558-2-ND	MMC, SD Card, Memory Stick™ Voltage Translation Transceiver	48-VFBGA	4157.50/2,500		
SN74AVCA406LZQSR	296-19595-1-ND	MMC, SD Card, Memory Stick™ Voltage Translation Transceiver	48-VFBGA	1.63	1.30	.98
SN74AVCA406LZQSR	296-19595-2-ND	MMC, SD Card, Memory Stick™ Voltage Translation Transceiver	48-VFBGA	2080.00/2,500		
SN74AVCA406LZXYR	296-21023-1-ND	MMC, SD Card, Memory Stick™ Voltage Translation Transceiver	20-BGA	1.63	1.30	.98
SN74AVCA406LZXYR	296-21023-2-ND	MMC, SD Card, Memory Stick™ Voltage Translation Transceiver	20-BGA	2080.00/2,500		
SN74AVCA406ZQCR	296-17829-1-ND	MMC, SD Card, Memory Stick™ Voltage Translation Transceiver	48-VFBGA	2.20	1.76	1.32
SN74AVCA406ZQCR	296-17829-2-ND	MMC, SD Card, Memory Stick™ Voltage Translation Transceiver	48-VFBGA	2815.00/2,500		
SN74AVCA164245GR	296-14450-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	3.15	2.52	1.96
SN74AVCA164245GR	296-14450-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	3570.00/2,000		
SN74AVCA164245VR	296-15446-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3.15	2.52	1.96
SN74AVCA164245VR	296-15446-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3570.00/2,000		
SN74AVCAH164245GR	296-14754-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	3.15	2.52	1.96
SN74AVCAH164245GR	296-14754-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	3570.00/2,000		
SN74AVCAH164245KR	296-15447-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	5.20	4.16	3.51
SN74AVCAH164245KR	296-15447-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	3250.00/1,000		
SN74AVCAH164245VR	296-14063-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	3.15	2.52	1.96
SN74AVCAH164245VR	296-14063-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	3570.00/2,000		
SN74AVCB164245GR	296-15448-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	3.15	2.52	1.96
SN74AVCB164245GR	296-15448-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	3570.00/2,000		
SN74AVCB164245KR	296-15449-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	5.20	4.16	3.51
SN74AVCB164245KR	296-15449-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	3250.00/1,000		
SN74AVCB164245VR	296-15550-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3.15	2.52	1.96
SN74AVCB164245VR	296-15550-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3570.00/2,000		
SN74AVCB324245KR	296-19101-1-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	5.20	4.16	3.51
SN74AVCB324245KR	296-19101-2-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3250.00/1,000		
SN74AVCBH164245GR	296-14002-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TSSOP	3.15	2.52	1.96
SN74AVCBH164245GR	296-14002-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TSSOP	3570.00/2,000		
SN74AVCBH164245KR	296-15551-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	5.20	4.16	3.51
SN74AVCBH164245KR	296-15551-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	3250.00/1,000		
SN74AVCBH164245VR	296-15552-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3.15	2.52	1.96
SN74AVCBH164245VR	296-15552-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3570.00/2,000		
SN74AVCBH324245KR	296-17352-1-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	5.20	4.16	3.51
SN74AVCBH324245KR	296-17352-2-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3250.00/1,000		
SN74AVCH1T45DBVR	296-19104-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SOT-23-6	.56	.42	.32
SN74AVCH1T45DBVR	296-19104-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SOT-23-6	546.00/3,000		
SN74AVCH1T45DCKR	296-19105-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SC70-6	.56	.42	.32
SN74AVCH1T45DCKR	296-19105-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SC70-6	546.00/3,000		
SN74AVCH1T45YZPR	296-17372-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	6-DSBGA	.48	.36	.27
SN74AVCH1T45YZPR	296-17372-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	6-DSBGA	468.00/3,000		
SN74AVCH2T45DCTR	296-19108-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	SM8	.72	.54	.41
SN74AVCH2T45DCTR	296-19108-2-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	SM8	702.00/3,000		
SN74AVCH2T45DCUR	296-19109-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	US8	.80	.60	.45
SN74AVCH2T45DCUR	296-19109-2-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	US8	780.00/3,000		
SN74AVCH2T45YZPR	296-21024-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-DSBGA	.88	.66	.50
SN74AVCH2T45YZPR	296-21024-2-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-DSBGA	858.00/3,000		
SN74AVCH4T245DGVR	296-18055-1-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-TVSOP	.90	.75	.60
SN74AVCH4T245DGVR	296-18055-2-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-TVSOP	798.00/2,000		
SN74AVCH4T245DR	296-18032-1-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-SOIC	.90	.75	.60
SN74AVCH4T245DR	296-18032-2-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-SOIC	975.00/2,500		
SN74AVCH4T245PWR	296-18057-1-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-TSSOP	.90	.75	.60
SN74AVCH4T245PWR	296-18057-2-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-TSSOP	798.00/2,000		
SN74AVCH4T245RGYR	296-18262-1-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-QFN	.99	.83	.66
SN74AVCH4T245RGYR	296-18262-2-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-QFN	439.00/1,000		
SN74AVCH8T245DGV	296-17932-ND	Tri-State 8-Bit, Dual Supply, Bus Transceiver	24-TVSOP	1.25	1.00	.75
SN74AVCH8T245PWR	296-19112-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-TSSOP	1.25	1.00	.75
SN74AVCH8T245PWR	296-19112-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-TSSOP	1300.00/2,000		
SN74AVCH8T245RHLR	296-22015-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver ***NEW!***	24-QFN	1.25	1.00	.75
SN74AVCH8T245RHLR	296-22015-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver ***NEW!***	24-QFN	650.00/1,000		
SN74AVCH16T245GQLR	296-19102-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	5.20	4.16	3.51
SN74AVCH16T245GQLR	296-19102-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	3250.00/1,000		
SN74AVCH16T245GR	296-18283-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	3.15	2.52	1.96
SN74AVCH16T245GR	296-18283-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	3570.00/2,000		
SN74AVCH16T245VR	296-19103-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3.15	2.52	1.96
SN74AVCH16T245VR	296-19103-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3570.00/2,000		
SN74AVCH20T245GR	296-17819-1-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-TSSOP	3.38	2.70	2.10
SN74AVCH20T245GR	296-17819-2-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-TSSOP	3826.00/2,000		
SN74AVCH20T245KR	296-19106-1-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-VFBGA	5.20	4.16	3.51
SN74AVCH20T245KR	296-19106-2-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-VFBGA	3250.00/1,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AVCH20T245VR	296-19107-1-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-TVSOP	3.38	2.70	2.10
SN74AVCH20T245VR	296-19107-2-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-TVSOP	3826.00/2,000		
SN74AVCH24T245GRGR	296-17663-1-ND	Tri-State 24-Bit Dual Supply Bus Transceiver	83-BGA	5.00	4.00	3.38
SN74AVCH24T245GRGR	296-17663-2-ND	Tri-State 24-Bit Dual Supply Bus Transceiver	83-BGA	3125.00/1,000		
SN74AVCH24T245ZRGR	296-17664-1-ND	Tri-State 24-Bit Dual Supply Bus Transceiver	83-BGA	3.76	3.01	2.34
SN74AVCH24T245ZRGR	296-17664-2-ND	Tri-State 24-Bit Dual Supply Bus Transceiver	83-BGA	2129.00/1,000		
SN74AVCH32T245KR	296-19110-1-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	5.20	4.16	3.51
SN74AVCH32T245KR	296-19110-2-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3250.00/1,000		
SN74AVCH32T245ZKER	296-19111-1-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3.83	3.06	2.38
SN74AVCH32T245ZKER	296-19111-2-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	2168.00/1,000		

BCT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN64BCT125AD	296-9690-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	2.00	1.60	1.20
SN64BCT757DW	296-9692-5-ND	Octal Buffer/Driver	20-SOIC	4.05	3.24	2.52
SN64BCT25244NT	296-9691-5-ND	Tri-State Octal Bus Buffer/Driver	24-Dip	6.00	4.80	4.05
SN74BCT244DWR	296-1152-1-ND	Octal Buffer/Driver	20-SOIC	2.93	2.34	1.82
SN74BCT244DWR	296-1152-2-ND	Octal Buffer/Driver	20-SOIC	3316.00/2,000		
SN74BCT245DWR	296-1154-1-ND	Octal Bus Transceiver	20-SOIC	2.93	2.34	1.82
SN74BCT245DWR	296-1154-2-ND	Octal Bus Transceiver	20-SOIC	3316.00/2,000		
SN74BCT374NSR	296-13177-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOP	2.93	2.34	1.82
SN74BCT374NSR	296-13177-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOP	3316.00/2,000		
SN74BCT543DW	296-12335-5-ND	Tri-State Octal Register Transceiver with Output	24-SOIC	8.10	6.48	5.47
SN74BCT623NSR	296-13178-1-ND	Tri-State Octal Bus Transceiver	20-SOP	3.15	2.52	1.96
SN74BCT623NSR	296-13178-2-ND	Tri-State Octal Bus Transceiver	20-SOP	3570.00/2,000		
SN74BCT640NSR	296-13179-1-ND	Tri-State Octal Bus Transceiver	20-SOP	3.15	2.52	1.96
SN74BCT640NSR	296-13179-2-ND	Tri-State Octal Bus Transceiver	20-SOP	3570.00/2,000		
SN74BCT652DWR	296-1155-1-ND	Octal Bus Transceiver	24-SOIC	7.00	5.60	4.73
SN74BCT652DWR	296-1155-2-ND	Octal Bus Transceiver	24-SOIC	8750.00/2,000		
SN74BCT760MDWREP	296-22294-1-ND	Octal Buffer/Driver ***NEW!***	20-SOIC	8.36	7.53	6.68
SN74BCT760MDWREP	296-22294-2-ND	Octal Buffer/Driver ***NEW!***	20-SOIC	12400.00/2,000		
SN74BCT2414DW	296-13176-5-ND	Memory Decoder with On-Chip Supply Voltage Monitor	20-SOIC	3.15	2.52	1.96

Bus Switch Family (CBT)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74CBTLV16211CGRDR	296-18211-1-ND	Low Voltage 24-Bit FET Bus Switch	54-LFBGA	2.97	2.38	1.85
74CBTLV16211CGRDR	296-18211-2-ND	Low Voltage 24-Bit FET Bus Switch	54-LFBGA	1683.00/1,000		
74CBTLV16211CZRDR	296-20802-1-ND	Low Voltage 24-Bit FET Bus Switch	54-BGA	2.20	1.76	1.32
74CBTLV16211CZRDR	296-20802-2-ND	Low Voltage 24-Bit FET Bus Switch	54-BGA	1144.00/1,000		
SN74CB3Q3125DBQR	296-19123-1-ND	Quad FET Bus Switch	16-QSOP	.84	.70	.56
SN74CB3Q3125DBQR	296-19123-2-ND	Quad FET Bus Switch	16-QSOP	910.00/2,500		
SN74CB3Q3125DGVR	296-19124-1-ND	Quad FET Bus Switch	14-TVSOP	.84	.70	.56
SN74CB3Q3125DGVR	296-19124-2-ND	Quad FET Bus Switch	14-TVSOP	744.00/2,000		
SN74CB3Q3125PWR	296-16804-1-ND	Quad FET Bus Switch	14-TSSOP	.93	.78	.62
SN74CB3Q3125PWR	296-16804-2-ND	Quad FET Bus Switch	14-TSSOP	824.00/2,000		
SN74CB3Q3125RGYR	296-23248-1-ND	Quad FET Bus Switch ***NEW!***	14-QFN	.93	.78	.62
SN74CB3Q3125RGYR	296-23248-2-ND	Quad FET Bus Switch ***NEW!***	14-QFN	412.00/1,000		
SN74CB3Q3244DBQR	296-19125-1-ND	8-Bit FET Bus Switch	20-QSOP	.84	.70	.56
SN74CB3Q3244DBQR	296-19125-2-ND	8-Bit FET Bus Switch	20-QSOP	910.00/2,500		
SN74CB3Q3244DGVR	296-19126-1-ND	8-Bit FET Bus Switch	20-TVSOP	.84	.70	.56
SN74CB3Q3244DGVR	296-19126-2-ND	8-Bit FET Bus Switch	20-TVSOP	744.00/2,000		
SN74CB3Q3244GQNR	296-17033-1-ND	8-Bit FET Bus Switch	20-VFBGA	1.43	1.14	.86
SN74CB3Q3244GQNR	296-17033-2-ND	8-Bit FET Bus Switch	20-VFBGA	741.00/1,000		
SN74CB3Q3244PWR	296-17824-1-ND	8-Bit FET Bus Switch	20-TSSOP	.84	.70	.56
SN74CB3Q3244PWR	296-17824-2-ND	8-Bit FET Bus Switch	20-TSSOP	744.00/2,000		
SN74CB3Q3244RGYR	296-19127-1-ND	8-Bit FET Bus Switch	20-QFN	1.14	.95	.76
SN74CB3Q3244RGYR	296-19127-2-ND	8-Bit FET Bus Switch	20-QFN	505.00/1,000		
SN74CB3Q3244ZQNR	296-17034-1-ND	8-Bit FET Bus Switch	20-VFBGA	1.14	.95	.76
SN74CB3Q3244ZQNR	296-17034-2-ND	8-Bit FET Bus Switch	20-VFBGA	505.00/1,000		
SN74CB3Q3245DBQR	296-19128-1-ND	8-Bit FET Bus Switch	20-QSOP	.84	.70	.56
SN74CB3Q3245DBQR	296-19128-2-ND	8-Bit FET Bus Switch	20-QSOP	910.00/2,500		
SN74CB3Q3245DGVR	296-19129-1-ND	8-Bit FET Bus Switch	20-TVSOP	.93	.78	.62
SN74CB3Q3245DGVR	296-19129-2-ND	8-Bit FET Bus Switch	20-TVSOP	824.00/2,000		
SN74CB3Q3245GQNR	296-23249-1-ND	8-Bit FET Bus Switch ***NEW!***	20-VFBGA	1.43	1.14	.86
SN74CB3Q3245GQNR	296-23249-2-ND	8-Bit FET Bus Switch ***NEW!***	20-VFBGA	741.00/1,000		
SN74CB3Q3245PWR	296-19130-1-ND	8-Bit FET Bus Switch	20-TSSOP	.84	.70	.56
SN74CB3Q3245PWR	296-19130-2-ND	8-Bit FET Bus Switch	20-TSSOP	744.00/2,000		
SN74CB3Q3245RGYR	296-19131-1-ND	8-Bit FET Bus Switch	20-QFN	1.14	.95	.76
SN74CB3Q3245RGYR	296-19131-2-ND	8-Bit FET Bus Switch	20-QFN	505.00/1,000		
SN74CB3Q3251DBQR	296-19132-1-ND	1-of-8 FET Mux/Demux	16-QSOP	.84	.70	.56
SN74CB3Q3251DBQR	296-19132-2-ND	1-of-8 FET Mux/Demux	16-QSOP	910.00/2,500		
SN74CB3Q3251DGVR	296-19133-1-ND	1-of-8 FET Mux/Demux	16-TVSOP	.84	.70	.56
SN74CB3Q3251DGVR	296-19133-2-ND	1-of-8 FET Mux/Demux	16-TVSOP	744.00/2,000		
SN74CB3Q3251IPWR	296-18204-1-ND	1-of-8 FET Mux/Demux	16-TSSOP	.84	.70	.56
SN74CB3Q3251IPWR	296-18204-2-ND	1-of-8 FET Mux/Demux	16-TSSOP	744.00/2,000		
SN74CB3Q3253DBQR	296-17283-1-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	.84	.70	.56
SN74CB3Q3253DBQR	296-17283-2-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	910.00/2,500		
SN74CB3Q3253DGVR	296-19134-1-ND	Dual 1-of-4 FET Mux/Demux	16-TVSOP	.93	.78	.62
SN74CB3Q3253DGVR	296-19134-2-ND	Dual 1-of-4 FET Mux/Demux	16-TVSOP	824.00/2,000		
SN74CB3Q3253PWR	296-19135-1-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	.84	.70	.56
SN74CB3Q3253PWR	296-19135-2-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	744.00/2,000		
SN74CB3Q3253RGYR	296-19136-1-ND	Dual 1-of-4 FET Mux/Demux	16-QFN	1.14	.95	.76
SN74CB3Q3253RGYR	296-19136-2-ND	Dual 1-of-4 FET Mux/Demux	16-QFN	505.00/1,000		
SN74CB3Q3257DBQR	296-17511-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	.84	.70	.56
SN74CB3Q3257DBQR	296-17511-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	910.00/2,500		
SN74CB3Q3257DGVR	296-19137-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	.93	.78	.62
SN74CB3Q3257DGVR	296-19137-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	824.00/2,000		
SN74CB3Q3257PWR	296-19138-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	.84	.70	.56
SN74CB3Q3257PWR	296-19138-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	744.00/2,000		
SN74CB3Q3257RGYR	296-16834-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QFN	1.14	.95	.76
SN74CB3Q3257RGYR	296-16834-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QFN	505.00/1,000		
SN74CB3Q3305DCUR	296-23250-1-ND	Dual FET Bus Switch ***NEW!***	8-US8	.75	.63	.50
SN74CB3Q3305DCUR	296-23250-2-ND	Dual FET Bus Switch ***NEW!***	8-US8	975.00/3,000		
SN74CB3Q3305PWR	296-16809-1-ND	Dual FET Bus Switch	8-TSSOP	1.00	.75	.57
SN74CB3Q3305PWR	296-16809-2-ND	Dual FET Bus Switch	8-TSSOP	666.00/2,000		
SN74CB3Q3306ADCUR	296-23251-1-ND	Dual Low Volt. FET Bus Switch ***NEW!***	8-US8	.75	.63	.50
SN74CB3Q3306ADCUR	296-23251-2-ND	Dual Low Volt. FET Bus Switch ***NEW!***	8-US8	975.00/3,000		
SN74CB3Q3306APWR	296-15102-1-ND	Dual Low Voltage FET Bus Switch	8-TSSOP	1.00	.75	.57
SN74CB3Q3306APWR	296-15102-2-ND	Dual Low Voltage FET Bus Switch	8-TSSOP	666.00/2,000		
SN74CB3Q3345DBQR	296-19139-1-ND	8-Bit Low Voltage FET Bus Switch	20-QSOP	1.14	.95	.76
SN74CB3Q3345DBQR	296-19139-2-ND	8-Bit Low Voltage FET Bus Switch	20-QSOP	1235.00/2,500		
SN74CB3Q3345DGVR	296-19140-1-ND	8-Bit Low Voltage FET Bus Switch	20-TVSOP	1.14	.95	.76
SN74CB3Q3345DGVR	296-19140-2-ND	8-Bit Low Voltage FET Bus Switch	20-TVSOP	1010.00/2,000		
SN74CB3Q3345PWR	296-19141-1-ND	8-Bit Low Voltage FET Bus Switch	20-TSSOP	1.14	.95	.76
SN74CB3Q3345PWR	296-19141-2-ND	8-Bit Low Voltage FET Bus Switch	20-TSSOP	1010.00/2,000		
SN74CB3Q3345RGYR	296-19142-1-ND	8-Bit Low Voltage FET Bus Switch	20-QFN	1.38	1.15	.92
SN74CB3Q3345RGYR	296-19142-2-ND	8-Bit Low Voltage FET Bus Switch	20-QFN	612.00/1,000		
SN74CB3Q3384ADBQR	296-17353-1-ND	10-Bit FET Bus Switch	24-QSOP	1.14	.95	.76
SN74CB3Q3384ADBQR	296-17353-2-ND	10-Bit FET Bus Switch	24-QSOP	1235.00/2,500		
SN74CB3Q3384ADGVR	296-19143-1-ND	10-Bit FET Bus Switch	24-TVSOP	1.14	.95	.76
SN74CB3Q3384ADGVR	296-19143-2-ND	10-Bit FET Bus Switch	24-TVSOP	1010.00/2,000		
SN74CB3Q3384APWR	296-19144-1-ND	10-Bit FET Bus Switch	24-TSSOP	1.14	.95	.76
SN74CB3Q3384APWR	296-19144-2-ND	10-Bit FET Bus Switch	24-TSSOP	1010.00/2,000		
SN74CB3Q6800DBQR	296-19145-1-ND	10-Bit FET Bus Switch	24-QSOP	.80	.60	.45
SN74CB3Q6800DBQR	296-19145-2-ND	10-Bit FET Bus Switch	24-QSOP	650.00/2,500		
SN74CB3Q6800DGVR	296-19146-1-ND	10-Bit FET Bus Switch	24-TVSOP	.80	.60	.45
SN74CB3Q6800DGVR	296-19146-2-ND	10-Bit FET Bus Switch	24-TVSOP	532.00/2,000		
SN74CB3Q6800PWR	296-17084-1-ND	10-Bit FET Bus Switch	24-TSSOP	.80	.60	.45
SN74CB3Q6800PWR	296-17084-2-ND	10-Bit FET Bus Switch	24-TSSOP	532.00/2,000		
SN74CB3Q16210DGGR	296-17178-1-ND	20-Bit Low Voltage FET Bus Switch	48-TSSOP	1.90	1.52	1.14
SN74CB3Q16210DGGR	296-17178-2-ND	20-Bit Low Voltage FET Bus Switch	48-TSSOP	1976.00/2,000		
SN74CB3Q16210DGVR	296-19113-1-ND	20-Bit Low Voltage FET Bus Switch	48-TVSOP	1.90	1.52	1.14
SN74CB3Q16210DGVR	296-19113-2-ND	20-Bit Low Voltage FET Bus Switch	48-TVSOP	1976.00/2,000		
SN74CB3Q16210DLR	296-19114-1-ND	20-Bit Low Voltage FET Bus Switch	48-SSOP	1.90	1.52	1.14
SN74CB3Q16210DLR	296-19114-2-ND	20-Bit Low Voltage FET Bus Switch	48-SSOP	988.00/1,000		
SN74CB3Q16211DGVR	296-17628-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-TVSOP	1.90	1.52	1.14
SN74CB3Q16211DGVR	296-17628-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-TVSOP	1976.00/2,000		
SN74CB3Q16211DGGR	296-17629-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-TSSOP	1.90	1.52	1.14
SN74CB3Q16211DGGR	296-17629-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-TSSOP	1976.00/2,000		
SN74CB3Q16211DLR	296-17786-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-SSOP	1.90	1.52	1.14
SN74CB3Q16211DLR	296-17786-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-SSOP	988.00/1,000		
SN74CB3Q16211GQLR	296-23247-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch ***NEW!***	56-VFBGA	2.00	1.60	1.20
SN74CB3Q16211GQLR	296-23247-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch ***NEW!***	56-VFBGA	1040.00/1,000		
SN74CB3Q16211ZQLR	296-22016-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch ***NEW!***	56-VFBGA	2.00	1.60	1.20
SN74CB3Q16211ZQLR	296-22016-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch ***NEW!***	56-VFBGA	1040.00/1,000		
SN74CB3Q16244DGGR	296-17593-1-ND	16-Bit FET Bus Switch	48-TSSOP	2.38	1.90	1.43
SN74CB3Q16244DGGR	296-17593-2-ND	16-Bit FET Bus Switch	48-TSSOP	2470.00/2,000		
SN74CB3Q16244DGVR	296-19115-1-ND	16-Bit FET Bus Switch	48-TVSOP	2.38	1.90	1.43
SN74CB3Q16244DGVR	296-19115-2-ND	16-Bit FET Bus Switch	48-TVSOP	2470.00/2,000		
SN74CB3Q16244DLR	296-19116-1-ND	16-Bit FET Bus Switch	48-SSOP	2.38	1.90	1.43
SN74CB3Q16244DLR	296-19116-2-ND	16-Bit FET Bus Switch	48-SSOP	1235.00/1,000		
SN74CB3Q16245DGGR	296-19117-1-ND	16-Bit Low Voltage FET Bus Switch	48-TSSOP	2.38	1.90	1.43
SN74CB3Q16245DGGR	296-19117-2-ND	16-Bit Low Voltage FET Bus Switch	48-TSSOP	2470.00/2,000		
SN74CB3Q16245DGVR	296-19118-1-ND	16-Bit Low Voltage FET Bus Switch	48-TVSOP	2.38	1.90	1.43
SN74CB3Q16245DGVR	296-19118-2-ND	16-Bit Low Voltage FET Bus Switch	48-TVSOP	2470.00/2,000		
SN74CB3Q16245DLR	296-19119-1-ND	16-Bit Low Voltage FET Bus Switch	48-SSOP	2.38	1.90	1.43
SN74CB3Q16245DLR	296-19119-2-ND	16-Bit Low Voltage FET Bus Switch	48-SSOP	1235.00/1,000		
SN74CB3Q16811DGGR	296-19120-1-ND	24-Bit Low Voltage FET Bus Switch	56-TSSOP	2.43	1.95	1.52
SN74CB3Q16811DGGR	296-19120-2-ND	24-Bit Low Voltage FET Bus Switch	56-TSSOP	2754.00/2,000		
SN74CB3Q16811DGVR	296-19121-1-ND	24-Bit Low Voltage FET Bus Switch	56-TVSOP	2.43	1.95	1.52
SN74CB3Q16811DGVR	296-19121-2-ND	24-Bit Low Voltage FET Bus Switch	56-TVSOP	2754.00/2,000		
SN74CB3Q16811DLR	296-19122-1-ND	24-Bit Low Voltage FET Bus Switch	56-SSOP	2.43	1.95	1.52
SN74CB3Q16811DLR	296-19122-2-ND	24-Bit Low Voltage FET Bus Switch	56-SSOP	1377.00/1,000		
SN74CB3Q32245GKER	296-17665-1-ND	32-Bit, 2.5V/3.3V, High Bandwidth Bus Switch	96-LFBGA	5.20	4.16	3.51
SN74CB3Q32245GKER	296-17665-2-ND	32-Bit, 2.5V/3.3V, High Bandwidth Bus Switch	96-LFBGA	3250.00/1,000		
SN74CB3Q32245ZKER	296-17666-1-ND	32-Bit, 2.5V/3.3V, High Bandwidth Bus Switch	96-LFBGA	3.83	3.06	2.38
SN74CB3Q32245ZKER	296-17666-2-ND	32-Bit, 2.5V/3.3V, High Bandwidth Bus Switch	96-LFBGA	2168.00/1,000		
SN74CB3T1G125DBVR	296-19150-1-ND	Single Low Voltage FET Bus Switch	SOT-23-5	.87	.73	.58
SN74CB3T1G125DBVR	296-19150-2-ND	Single Low Voltage FET Bus Switch	SOT-23-5	1131.00/3,000		
SN74CB3T1G125DCKR	296-15835-1-ND	Single Low Voltage FET Bus Switch	SC-70	.87	.73	.58
SN74CB3T1G125DCKR	296-15835-2-ND	Single Low Voltage FET Bus Switch	SC-70	1131.00/3,000		
SN74CB3T3125DGVR	296-19151-1-ND	Quad FET Bus Switch	14-TVSOP	1.25	1.00	.75
SN74CB3T3125DGVR	296-19151-2-ND	Quad FET Bus Switch	14-TVSOP	1300.00/2,000		
SN74CB3T3125PWR	296-17426-1-ND	Quad FET Bus Switch	14-TSSOP	1.25	1.00	.75
SN74CB3T3125PWR	296-17426-2-ND	Quad FET Bus Switch	14-TSSOP	1300.00/2,000		
SN74CB3T3125RGYR	296-21025-1-ND	Quad FET Bus Switch	14-QFN	1.38	1.10	.83
SN74CB3T3125RGYR	296-21025-2-ND	Quad FET Bus Switch	14-QFN	715.00/1,000		
SN74CB3T3245DBQR	296-17823-1-ND	8-Bit FET Bus Switch	20-QSOP	1.25	1.00	.75
SN74CB3T3245DBQR	296-17823-2-ND	8-Bit FET Bus Switch	20-QSOP	1600.00/2,500		
SN74CB3T3245DGVR	296-19152-1-ND	8-Bit FET Bus Switch	20-TVSOP	1.25	1.00	.75
SN74CB3T3245DGVR	296-19152-2-ND	8-Bit FET Bus Switch	20-TVSOP	1300.00/2,000		
SN74CB3T3245DWR	296-18214-1-ND	8-Bit FET Bus Switch	20-SOIC	1.25	1.00	.75
SN74CB3T3245DWR	296-18214-2-ND	8-Bit FET Bus Switch	20-SOIC	1300.00/2,000		
SN74CB3T3245PWR	296-18196-1-ND	8-Bit FET Bus Switch	20-TSSOP	1.25	1.00	.75
SN74CB3T3245PWR	296-18196-2-ND	8-Bit FET Bus Switch	20-TSSOP	1300.00/2,000		
SN74CB3T3253DBQR	296-19153-1-ND	Dual 1-of-4 Mux/Demux	16-QSOP	1.25	1.00	.75
SN74CB3T3253DBQR	296-19153-2-ND	Dual 1-of-4 Mux/Demux	16-QSOP	1600.00/2,500		
SN74CB3T3253DGVR	296-19154-1-ND	Dual 1-of-4 Mux/Demux	16-TVSOP	1.25	1.00	.75
SN74CB3T3253DGVR	296-19154-2-ND	Dual 1-of-4 Mux/Demux	16-TVSOP	1300.00/2,000		
SN74CB3T3253DR	296-19155-1-ND	Dual 1-of-4 Mux/Demux	16-SOIC	1.25	1.00	.75

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CB3T3253DR	296-19155-2-ND	Dual 1-of-4 Mux/Demux	16-SOIC	1600.00/2,500		
SN74CB3T3253PWR	296-19156-1-ND	Dual 1-of-4 Mux/Demux	16-TSSOP	1.25	1.00	.75
SN74CB3T3253PWR	296-19156-2-ND	Dual 1-of-4 Mux/Demux	16-TSSOP	1300.00/2,000		
SN74CB3T3257DGVR	296-19157-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	1.25	1.00	.75
SN74CB3T3257DGVR	296-19157-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	1300.00/2,000		
SN74CB3T3257PWR	296-17850-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	1.25	1.00	.75
SN74CB3T3257PWR	296-17850-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	1300.00/2,000		
SN74CB3T3306DCTR	296-15553-1-ND	3.3V Low Voltage Dual FET Bus Switch	8-SSOP	1.25	1.00	.75
SN74CB3T3306DCTR	296-15553-2-ND	3.3V Low Voltage Dual FET Bus Switch	8-SSOP	1950.00/3,000		
SN74CB3T3306DCUR	296-15554-1-ND	3.3V Low Voltage Dual FET Bus Switch	8-VSSOP	1.25	1.00	.75
SN74CB3T3306DCUR	296-15554-2-ND	3.3V Low Voltage Dual FET Bus Switch	8-VSSOP	1950.00/3,000		
SN74CB3T3383DBQR	296-19158-1-ND	10-Bit FET Bus Exchange Switch	24-QSOP	1.26	1.05	.84
SN74CB3T3383DBQR	296-19158-2-ND	10-Bit FET Bus Exchange Switch	24-QSOP	1365.00/2,500		
SN74CB3T3383DGVR	296-19159-1-ND	10-Bit FET Bus Exchange Switch	24-TVSOP	1.26	1.05	.84
SN74CB3T3383DGVR	296-19159-2-ND	10-Bit FET Bus Exchange Switch	24-TVSOP	1118.00/2,000		
SN74CB3T3383DWR	296-19160-1-ND	10-Bit FET Bus Exchange Switch	24-SOIC	1.26	1.05	.84
SN74CB3T3383DWR	296-19160-2-ND	10-Bit FET Bus Exchange Switch	24-SOIC	1118.00/2,000		
SN74CB3T3383PWR	296-19161-1-ND	10-Bit FET Bus Exchange Switch	24-TSSOP	1.26	1.05	.84
SN74CB3T3383PWR	296-19161-2-ND	10-Bit FET Bus Exchange Switch	24-TSSOP	1118.00/2,000		
SN74CB3T3384DBQR	296-17842-1-ND	10-Bit FET Bus Switch	24-QSOP	1.25	1.00	.75
SN74CB3T3384DBQR	296-17842-2-ND	10-Bit FET Bus Switch	24-QSOP	1600.00/2,500		
SN74CB3T3384DWR	296-19162-1-ND	10-Bit FET Bus Switch	24-SOIC	1.25	1.00	.75
SN74CB3T3384DWR	296-19162-2-ND	10-Bit FET Bus Switch	24-SOIC	1300.00/2,000		
SN74CB3T3384PWR	296-19163-1-ND	10-Bit FET Bus Switch	24-TSSOP	1.25	1.00	.75
SN74CB3T3384PWR	296-19163-2-ND	10-Bit FET Bus Switch	24-TSSOP	1300.00/2,000		
SN74CB3T16210DGGR	296-19147-1-ND	20-Bit FET Bus Switch	48-TSSOP	2.45	1.97	1.53
SN74CB3T16210DGGR	296-19147-2-ND	20-Bit FET Bus Switch	48-TSSOP	2780.00/2,000		
SN74CB3T16210DGVR	296-19148-1-ND	20-Bit FET Bus Switch	48-TVSOP	2.45	1.97	1.53
SN74CB3T16210DGVR	296-19148-2-ND	20-Bit FET Bus Switch	48-TVSOP	2780.00/2,000		
SN74CB3T16211DGGR	296-16978-1-ND	24-Bit FET Bus Switch	56-TSSOP	2.38	1.90	1.43
SN74CB3T16211DGGR	296-16978-2-ND	24-Bit FET Bus Switch	56-TSSOP	2470.00/2,000		
SN74CB3T16211DGVR	296-17832-1-ND	24-Bit FET Bus Switch	56-TVSOP	2.38	1.90	1.43
SN74CB3T16211DGVR	296-17832-2-ND	24-Bit FET Bus Switch	56-TVSOP	2470.00/2,000		
SN74CB3T16211DLR	296-19149-1-ND	24-Bit FET Bus Switch	56-SSOP	2.38	1.90	1.43
SN74CB3T16211DLR	296-19149-2-ND	24-Bit FET Bus Switch	56-SSOP	1235.00/1,000		
SN74CB3T16211ZQLR	296-23252-1-ND	24-Bit FET Bus Switch ***NEW!***	56-VFBGA	2.36	1.89	1.47
SN74CB3T16211ZQLR	296-23252-2-ND	24-Bit FET Bus Switch ***NEW!***	56-VFBGA	1339.00/1,000		
SN74CB3T16212DGGR	296-17667-1-ND	24-Bit FET Bus Exchange Switch	56-TSSOP	2.38	1.90	1.43
SN74CB3T16212DGGR	296-17667-2-ND	24-Bit FET Bus Exchange Switch	56-TSSOP	2470.00/2,000		
SN74CB3T16212DGVR	296-17668-1-ND	24-Bit FET Bus Exchange Switch	56-TVSOP	2.38	1.90	1.43
SN74CB3T16212DGVR	296-17668-2-ND	24-Bit FET Bus Exchange Switch	56-TVSOP	2470.00/2,000		
SN74CB3T16212ZQLR	296-17669-1-ND	24-Bit FET Bus Exchange Switch	56-VFBGA	2.36	1.89	1.47
SN74CB3T16212ZQLR	296-17669-2-ND	24-Bit FET Bus Exchange Switch	56-VFBGA	1339.00/1,000		
SN74CBT1G125DBVR	296-1164-1-ND	Single FET Bus Switch	SOT-23-5	.46	.37	.26
SN74CBT1G125DBVR	296-1164-2-ND	Single FET Bus Switch	SOT-23-5	357.00/3,000		
SN74CBT1G125DCKR	296-6410-1-ND	Single FET Bus Switch	SC70-5	.46	.37	.26
SN74CBT1G125DCKR	296-6410-2-ND	Single FET Bus Switch	SC70-5	357.00/3,000		
SN74CBT1G384DBVR	296-6411-1-ND	Single FET Bus Switch	SOT-23-5	.45	.36	.27
SN74CBT1G384DBVR	296-6411-2-ND	Single FET Bus Switch	SOT-23-5	366.00/3,000		
SN74CBT1G384DCKR	296-6412-1-ND	Single FET Bus Switch	SC70-5	.45	.36	.27
SN74CBT1G384DCKR	296-6412-2-ND	Single FET Bus Switch	SC70-5	366.00/3,000		
SN74CBT34X245DBBR	296-13180-1-ND	32-Bit FET Bus Switch	80-TVSOP	2.48	1.98	1.54
SN74CBT34X245DBBR	296-13180-2-ND	32-Bit FET Bus Switch	80-TVSOP	2806.00/2,000		
SN74CBT3125CDBQR	296-19187-1-ND	Quad FET Bus Switch	16-QSOP	.56	.42	.32
SN74CBT3125CDBQR	296-19187-2-ND	Quad FET Bus Switch	16-QSOP	455.00/2,500		
SN74CBT3125CDBR	296-19188-1-ND	Quad FET Bus Switch	14-SSOP	.56	.42	.32
SN74CBT3125CDBR	296-19188-2-ND	Quad FET Bus Switch	14-SSOP	372.00/2,000		
SN74CBT3125CDGVR	296-19189-1-ND	Quad FET Bus Switch	14-TVSOP	.56	.42	.32
SN74CBT3125CDGVR	296-19189-2-ND	Quad FET Bus Switch	14-TVSOP	372.00/2,000		
SN74CBT3125CDR	296-19190-1-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32
SN74CBT3125CDR	296-19190-2-ND	Quad FET Bus Switch	14-SOIC	455.00/2,500		
SN74CBT3125CPWR	296-19191-1-ND	Quad FET Bus Switch	14-TSSOP	.56	.42	.32
SN74CBT3125CPWR	296-19191-2-ND	Quad FET Bus Switch	14-TSSOP	372.00/2,000		
SN74CBT3125CRGYR	296-19192-1-ND	Quad FET Bus Switch	14-QFN	.80	.60	.45
SN74CBT3125CRGYR	296-19192-2-ND	Quad FET Bus Switch	14-QFN	266.00/1,000		
SN74CBT3125D	296-1165-5-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32
SN74CBT3125DR	296-1165-1-ND	Quad FET Bus Switch	14-SOIC	.53	.42	.32
SN74CBT3125DR	296-1165-2-ND	Quad FET Bus Switch	14-SOIC	355.00/2,500		
SN74CBT3125DBQR	296-6413-1-ND	Quad FET Bus Switch	16-QSOP	.56	.42	.32
SN74CBT3125DBQR	296-6413-2-ND	Quad FET Bus Switch	16-QSOP	455.00/2,500		
SN74CBT3125DBR	296-6414-1-ND	Quad FET Bus Switch	14-SSOP	.56	.42	.32
SN74CBT3125DBR	296-6414-2-ND	Quad FET Bus Switch	14-SSOP	372.00/2,000		
SN74CBT3125DGVR	296-6415-1-ND	Quad FET Bus Switch	14-TVSOP	.56	.42	.32
SN74CBT3125DGVR	296-6415-2-ND	Quad FET Bus Switch	14-TVSOP	372.00/2,000		
SN74CBT3125PWR	296-6416-1-ND	Quad FET Bus Switch	14-TSSOP	.53	.42	.32
SN74CBT3125PWR	296-6416-2-ND	Quad FET Bus Switch	14-TSSOP	294.00/2,000		
SN74CBT3125RGYR	296-13920-1-ND	Quad FET Bus Switch	14-QFN	.72	.54	.41
SN74CBT3125RGYR	296-13920-2-ND	Quad FET Bus Switch	14-QFN	239.00/1,000		
SN74CBT3126D	296-1537-5-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32
SN74CBT3126DR	296-1537-1-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32
SN74CBT3126DR	296-1537-2-ND	Quad FET Bus Switch	14-SOIC	455.00/2,500		
SN74CBT3126DBQR	296-6417-1-ND	Quad FET Bus Switch	16-QSOP	.56	.42	.32
SN74CBT3126DBQR	296-6417-2-ND	Quad FET Bus Switch	16-QSOP	455.00/2,500		
SN74CBT3126DBR	296-6418-1-ND	Quad FET Bus Switch	14-SSOP	.56	.42	.32
SN74CBT3126DBR	296-6418-2-ND	Quad FET Bus Switch	14-SSOP	372.00/2,000		
SN74CBT3126DGVR	296-6419-1-ND	Quad FET Bus Switch	14-TVSOP	.56	.42	.32
SN74CBT3126DGVR	296-6419-2-ND	Quad FET Bus Switch	14-TVSOP	372.00/2,000		
SN74CBT3126PWR	296-6420-1-ND	Quad FET Bus Switch	14-TSSOP	.56	.42	.32
SN74CBT3126PWR	296-6420-2-ND	Quad FET Bus Switch	14-TSSOP	372.00/2,000		
SN74CBT3126RGYR	296-13921-1-ND	Quad FET Bus Switch	14-QFN	.72	.54	.41
SN74CBT3126RGYR	296-13921-2-ND	Quad FET Bus Switch	14-QFN	239.00/1,000		
SN74CBT3244CDBQR	296-19193-1-ND	Octal FET Bus Switch	20-QSOP	.56	.42	.32
SN74CBT3244CDBQR	296-19193-2-ND	Octal FET Bus Switch	20-QSOP	455.00/2,500		
SN74CBT3244CDBR	296-19194-1-ND	Octal FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3244CDBR	296-19194-2-ND	Octal FET Bus Switch	20-SSOP	372.00/2,000		
SN74CBT3244CDGVR	296-19195-1-ND	Octal FET Bus Switch	20-TVSOP	.62	.47	.35
SN74CBT3244CDGVR	296-19195-2-ND	Octal FET Bus Switch	20-TVSOP	410.00/2,000		
SN74CBT3244CDWR	296-19196-1-ND	Octal FET Bus Switch	20-SOIC	.56	.42	.32
SN74CBT3244CDWR	296-19196-2-ND	Octal FET Bus Switch	20-SOIC	372.00/2,000		
SN74CBT3244CPWR	296-19197-1-ND	Octal FET Bus Switch	20-TSSOP	.56	.42	.32
SN74CBT3244CPWR	296-19197-2-ND	Octal FET Bus Switch	20-TSSOP	372.00/2,000		
SN74CBT3244CRGYR	296-19198-1-ND	Octal FET Bus Switch	20-QFN	.72	.54	.41
SN74CBT3244CRGYR	296-19198-2-ND	Octal FET Bus Switch	20-QFN	239.00/1,000		
SN74CBT3244DBQR	296-6421-1-ND	Octal FET Bus Switch	20-QSOP	.64	.48	.36
SN74CBT3244DBQR	296-6421-2-ND	Octal FET Bus Switch	20-QSOP	520.00/2,500		
SN74CBT3244DBR	296-6422-1-ND	Octal FET Bus Switch	20-SSOP	.72	.54	.41
SN74CBT3244DBR	296-6422-2-ND	Octal FET Bus Switch	20-SSOP	478.00/2,000		
SN74CBT3244DGVR	296-6423-1-ND	Octal FET Bus Switch	20-TVSOP	.70	.53	.40
SN74CBT3244DGVR	296-6423-2-ND	Octal FET Bus Switch	20-TVSOP	468.00/2,000		
SN74CBT3244DW	296-1538-5-ND	Octal FET Bus Switch	20-SOIC	.72	.54	.41
SN74CBT3244DWR	296-14796-1-ND	Octal FET Bus Switch	20-SOIC	.72	.54	.41
SN74CBT3244DWR	296-14796-2-ND	Octal FET Bus Switch	20-SOIC	478.00/2,000		
SN74CBT3244GQNR	296-12089-1-ND	Octal FET Bus Switch	20-BGA	.81	.68	.54
SN74CBT3244GQNR	296-12089-2-ND	Octal FET Bus Switch	20-BGA	359.00/1,000		
SN74CBT3244PW	296-1166-5-ND	Octal FET Bus Switch	20-TSSOP	.72	.54	.41
SN74CBT3244PWR	296-1166-1-ND	Octal FET Bus Switch	20-TSSOP	.64	.48	.36
SN74CBT3244PWR	296-1166-2-ND	Octal FET Bus Switch	20-TSSOP	426.00/2,000		
SN74CBT3244RGYR	296-13922-1-ND	Octal FET Bus Switch	20-QFN	.72	.54	.41
SN74CBT3244RGYR	296-13922-2-ND	Octal FET Bus Switch	20-QFN	239.00/1,000		
SN74CBT3245ADBQR	296-6424-1-ND	Octal FET Bus Switch	20-QSOP	.72	.54	.41
SN74CBT3245ADBQR	296-6424-2-ND	Octal FET Bus Switch	20-QSOP	585.00/2,500		
SN74CBT3245ADBR	296-6425-1-ND	Octal FET Bus Switch	20-SSOP	.64	.48	.36
SN74CBT3245ADBR	296-6425-2-ND	Octal FET Bus Switch	20-SSOP	426.00/2,000		
SN74CBT3245ADGVR	296-6460-1-ND	Octal FET Bus Switch	20-TVSOP	.72	.54	.41
SN74CBT3245ADGVR	296-6460-2-ND	Octal FET Bus Switch	20-TVSOP	478.00/2,000		
SN74CBT3245ADW	296-6426-5-ND	Octal FET Bus Switch	20-SOIC	.64	.48	.36
SN74CBT3245ADWR	296-14797-1-ND	Octal FET Bus Switch	20-SOIC	.64	.48	.36
SN74CBT3245ADWR	296-14797-2-ND	Octal FET Bus Switch	20-SOIC	426.00/2,000		
SN74CBT3245AGQNR	296-12090-1-ND	Octal FET Bus Switch	20-BGA	1.05	.88	.70
SN74CBT3245AGQNR	296-12090-2-ND	Octal FET Bus Switch	20-BGA	466.00/1,000		
SN74CBT3245APWR	296-6427-1-ND	Octal FET Bus Switch	20-TSSOP	.53	.42	.32
SN74CBT3245APWR	296-6427-2-ND	Octal FET Bus Switch	20-TSSOP	294.00/2,000		
SN74CBT3245ARGYR	296-13923-1-ND	Octal FET Bus Switch	20-QFN	.72	.54	.41
SN74CBT3245ARGYR	296-13923-2-ND	Octal FET Bus Switch	20-QFN	239.00/1,000		
SN74CBT3245CDBQR	296-19199-1-ND	Octal FET Bus Switch	20-QSOP	.56	.42	.32
SN74CBT3245CDBQR	296-19199-2-ND	Octal FET Bus Switch	20-QSOP	455.00/2,500		
SN74CBT3245CDBR	296-19200-1-ND	Octal FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3245CDBR	296-19200-2-ND	Octal FET Bus Switch	20-SSOP	372.00/2,000		
SN74CBT3245CDGVR	296-19201-1-ND	Octal FET Bus Switch	20-TVSOP	.62	.47	.35
SN74CBT3245CDGVR	296-19201-2-ND	Octal FET Bus Switch	20-TVSOP	410.00/2,000		
SN74CBT3245CDWR	296-17282-1-ND	Octal FET Bus Switch	20-SOIC	.56	.42	.32
SN74CBT3245CDWR	296-17282-2-ND	Octal FET Bus Switch	20-SOIC	372.00/2,000		
SN74CBT3245CPWR	296-19202-1-ND	Octal FET Bus Switch	20-TSSOP	.56	.42	.32
SN74CBT3245CPWR	296-19202-2-ND	Octal FET Bus Switch	20-TSSOP	372.00/2,000		
SN74CBT3245CRGYR	296-19203-1-ND	Octal FET Bus Switch	20-QFN	.72	.54	.41
SN74CBT3245CRGYR	296-19203-2-ND	Octal FET Bus Switch	20-QFN	239.00/1,000		
SN74CBT3251D	296-6428-5-ND	1-of-8 FET Mux/Demux	16-SOIC	.64	.48	.36
SN74CBT3251DBQR	296-6429-1-ND	1-of-8 FET Mux/Demux	16-QSOP	.64	.48	.36
SN74CBT3251DBQR	296-6429-2-ND	1-of-8 FET Mux/Demux	16-QSOP	520.00/2,500		
SN74CBT3251DBR	296-6430-1-ND	1-of-8 FET Mux/Demux	16-SSOP	.64	.48	.36
SN74CBT3251DBR	296-6430-2-ND	1-of-8 FET Mux/Demux	16-SSOP	426.00/2,000		
SN74CBT3251PWR	296-6431-1-ND	1-of-8 FET Mux/Demux	16-TSSOP	.64	.48	.36
SN74CBT3251PWR	296-6431-2-ND	1-of-8 FET Mux/Demux	16-TSSOP	426.00/2,000		
SN74CBT3251RGYR	296-13924-1-ND	1-of-8 FET Mux/Demux	16-QFN	.80	.60	.45
SN74CBT3251RGYR	296-13924-2-ND	1-of-8 FET Mux/Demux	16-QFN	266.00/1,000		
SN74CBT3253CDBQR	296-19204-1-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	.56	.42	.32
SN74CBT3253CDBQR	296-19204-2-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	455.00/2,500		
SN74CBT3253CDBR	296-19205-1-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	.56	.42	.32
SN74CBT3253CDBR	296-19205-2-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	372.00/2,000		
SN74CBT3253CDR	296-19206-1-ND	Dual 1-of-4 FET Mux/Demux	16-SOIC	.56	.42	.32
SN74CBT3253CDR	296-19206-2-ND	Dual 1-of-4 FET Mux/Demux	16-SOIC	455.00/2,500		
SN74CBT3253CPWR	296-19207-1-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	.56	.42	.32
SN74CBT3253CPWR	296-19207-2-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	372.00/2,000		
SN74CBT3253CRGYR	296-19208-1-ND	Dual 1-of-4 FET Mux/Demux	16-QFN	.72	.54	.41
SN74CBT3253CRGYR	296-19208-2-ND	Dual 1-of-4 FET Mux/Demux	16-QFN	239.00/1,000		
SN74CBT3253D	296-6432-5-ND	Dual 1-of-4 FET Mux/Demux	16-SOIC	.72	.54	.41
SN74CBT3253DBQR	296-6433-1-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	.64	.48	.36
SN74CBT3253DBQR	296-6433-2-ND	Dual 1-of-4 FET Mux/Demux	16-QSOP	520.00/2,500		
SN74CBT3253DBR	296-6434-1-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	.64	.48	.36
SN74CBT3253DBR	296-6434-2-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	426.00/2,000		
SN74CBT3253PWR	296-1167-1-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	.64	.48	.36
SN74CBT3253PWR	296-1167-2-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	426.00/2,000		
SN74CBT3253RGYR	296-13925-1-ND	Dual 1-of-4 FET Mux/Demux	16-QFN	.72	.54	.41
SN74CBT3253RGYR	296-13925-2-ND	Dual 1-of-4 FET Mux/Demux	16-QFN	239.00/1,000		
SN74CBT3257CDBQR	296-19209-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	.56	.42	.32
SN74CBT3257CDBQR	296-19209-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	455.00/2,500		
SN74CBT3257CDBR	296-19210-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.56	.42	.32
SN74CBT3257CDBR	296-19210-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	372.00/2,000		
SN74CBT3257CDR	296-15340-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.56	.42	.32
SN74CBT3257CDR	296-15340-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	455.00/2,500		
SN74CBT3257CPWR	296-19211-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	.56	.42	.32
SN74CBT3257CPWR	296-19211-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	372.00/2,000		
SN74CBT3257CRGYR	296-19212-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QFN	.72	.54	.41
SN74CBT3257CRGYR	296-19212-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QFN	239.00/1,000		
SN74CBT3257D	296-1168-5-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.72	.54	.41
SN74CBT3257DR	296-1168-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.64	.48	.36
SN74CBT3257DR	296-1168-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	520.00/2,500		
SN74CBT3257DBQR	296-6435-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	.64	.48	.36
SN74CBT3257DBQR	296-6435-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	520.00/2,500		
SN74CBT3257DBR	296-6436-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.64	.48	.36
SN74CBT3257DBR	296-6436-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	426.00/2,000		
SN74CBT3257PWR	296-6437-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	.64	.48	.36
SN74CBT3257PWR	296-6437-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	426.00/2,000		
SN74CBT3257RGYR	296-13926-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QFN	.80	.60	.45
SN74CBT3257RGYR	296-13926-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QFN	266.00/1,000		
SN74CBT3305CDR	296-19213-1-ND	Dual FET Bus Switch	8-SOIC	.56	.42	.32
SN74CBT3305CDR	296-19213-2-ND	Dual FET Bus Switch	8-SOIC	455.00/2,500		
SN74CBT3305CPWR	296-19214-1-ND	Dual FET Bus Switch	8-TSSOP	.56	.42	.32
SN74CBT3305CPWR	296-19214-2-ND	Dual FET Bus Switch	8-TSSOP	372.00/2,000		
SN74CBT3306CDR	296-19215-1-ND	Dual FET Bus Switch	8-SOIC	.56	.42	.32
SN74CBT3306CDR	296-19215-2-ND	Dual FET Bus Switch	8-SOIC	455.00/2,500		
SN74CBT3306CPWR	296-16755-1-ND	Dual FET Bus Switch	8-TSSOP	.56	.42	.32
SN74CBT3306CPWR	296-16755-2-ND	Dual FET Bus Switch	8-TSSOP	372.00/2,000		
SN74CBT3306D	296-1540-5-ND	Dual FET Bus Switch	8-SOIC	.56	.42	.32
SN74CBT3306DR	296-1540-1-ND	Dual FET Bus Switch	8-SOIC	.56	.42	.32

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBT3306DR	296-1540-2-ND	Dual FET Bus Switch	8-SOIC	455.00/2,500		
SN74CBT3306PWR	296-6438-1-ND	Dual FET Bus Switch	8-TSSOP	.56	.42	.32
SN74CBT3306PWR	296-6438-2-ND	Dual FET Bus Switch	8-TSSOP	372.00/2,000		
SN74CBT3345CDBQR	296-19216-1-ND	8-Bit FET Bus Switch	20-QSOP	.56	.42	.32
SN74CBT3345CDBQR	296-19216-2-ND	8-Bit FET Bus Switch	20-QSOP	455.00/2,500		
SN74CBT3345CDBR	296-19217-1-ND	8-Bit FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3345CDBR	296-19217-2-ND	8-Bit FET Bus Switch	20-SSOP	372.00/2,000		
SN74CBT3345CDGVR	296-19218-1-ND	8-Bit FET Bus Switch	20-TVSOP	.62	.47	.35
SN74CBT3345CDGVR	296-19218-2-ND	8-Bit FET Bus Switch	20-TVSOP	410.00/2,000		
SN74CBT3345CDWR	296-19219-1-ND	8-Bit FET Bus Switch	20-SOIC	.56	.42	.32
SN74CBT3345CDWR	296-19219-2-ND	8-Bit FET Bus Switch	20-SOIC	372.00/2,000		
SN74CBT3345CPWR	296-19220-1-ND	8-Bit FET Bus Switch	20-TSSOP	.56	.42	.32
SN74CBT3345CPWR	296-19220-2-ND	8-Bit FET Bus Switch	20-TSSOP	372.00/2,000		
SN74CBT3345CRGYR	296-19221-1-ND	8-Bit FET Bus Switch	20-QFN	.80	.60	.45
SN74CBT3345CRGYR	296-19221-2-ND	8-Bit FET Bus Switch	20-QFN	266.00/1,000		
SN74CBT3345DBR	296-6439-1-ND	8-Bit FET Bus Switch	20-SSOP	.64	.48	.36
SN74CBT3345DBR	296-6439-2-ND	8-Bit FET Bus Switch	20-SSOP	426.00/2,000		
SN74CBT3345DGVR	296-6440-1-ND	8-Bit FET Bus Switch	20-TVSOP	.64	.48	.36
SN74CBT3345DGVR	296-6440-2-ND	8-Bit FET Bus Switch	20-TVSOP	426.00/2,000		
SN74CBT3345DW	296-6441-5-ND	8-Bit FET Bus Switch	20-SOIC	.64	.48	.36
SN74CBT3345DWR	296-14798-1-ND	8-Bit FET Bus Switch	20-SOIC	.64	.48	.36
SN74CBT3345DWR	296-14798-2-ND	8-Bit FET Bus Switch	20-SOIC	426.00/2,000		
SN74CBT3345PWR	296-6442-1-ND	8-Bit FET Bus Switch	20-TSSOP	.64	.48	.36
SN74CBT3345PWR	296-6442-2-ND	8-Bit FET Bus Switch	20-TSSOP	426.00/2,000		
SN74CBT3383CDBQR	296-19222-1-ND	10-Bit FET Bus-Exchange Switch	24-QSOP	.64	.48	.36
SN74CBT3383CDBQR	296-19222-2-ND	10-Bit FET Bus-Exchange Switch	24-QSOP	520.00/2,500		
SN74CBT3383CDBR	296-19223-1-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	.64	.48	.36
SN74CBT3383CDBR	296-19223-2-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	426.00/2,000		
SN74CBT3383CDGVR	296-19224-1-ND	10-Bit FET Bus-Exchange Switch	24-TVSOP	.70	.53	.40
SN74CBT3383CDGVR	296-19224-2-ND	10-Bit FET Bus-Exchange Switch	24-TVSOP	468.00/2,000		
SN74CBT3383CDWR	296-19225-1-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	.64	.48	.36
SN74CBT3383CDWR	296-19225-2-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	426.00/2,000		
SN74CBT3383CPWR	296-19226-1-ND	10-Bit FET Bus-Exchange Switch	24-TSSOP	.64	.48	.36
SN74CBT3383CPWR	296-19226-2-ND	10-Bit FET Bus-Exchange Switch	24-TSSOP	426.00/2,000		
SN74CBT3383DBQR	296-6443-1-ND	10-Bit FET Bus-Exchange Switch	24-QSOP	.56	.42	.32
SN74CBT3383DBQR	296-6443-2-ND	10-Bit FET Bus-Exchange Switch	24-QSOP	455.00/2,500		
SN74CBT3383DBR	296-6444-1-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	.56	.42	.32
SN74CBT3383DBR	296-6444-2-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	372.00/2,000		
SN74CBT3383DW	296-6445-5-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	.56	.42	.32
SN74CBT3383DWR	296-14799-1-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	.56	.42	.32
SN74CBT3383DWR	296-14799-2-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	372.00/2,000		
SN74CBT3383PWR	296-6446-1-ND	10-Bit FET Bus-Exchange Switch	24-TSSOP	.56	.42	.32
SN74CBT3383PWR	296-6446-2-ND	10-Bit FET Bus-Exchange Switch	24-TSSOP	372.00/2,000		
SN74CBT3384ADBQR	296-6447-1-ND	10-Bit FET Bus Switch	24-QSOP	.56	.42	.32
SN74CBT3384ADBQR	296-6447-2-ND	10-Bit FET Bus Switch	24-QSOP	455.00/2,500		
SN74CBT3384ADBR	296-6448-1-ND	10-Bit FET Bus Switch	24-SSOP	.56	.42	.32
SN74CBT3384ADBR	296-6448-2-ND	10-Bit FET Bus Switch	24-SSOP	372.00/2,000		
SN74CBT3384ADGVR	296-6449-1-ND	10-Bit FET Bus Switch	24-TVSOP	.62	.47	.35
SN74CBT3384ADGVR	296-6449-2-ND	10-Bit FET Bus Switch	24-TVSOP	410.00/2,000		
SN74CBT3384ADW	296-1169-5-ND	10-Bit FET Bus Switch	24-SOIC	.56	.42	.32
SN74CBT3384ADWR	296-1169-1-ND	10-Bit FET Bus Switch	24-SOIC	.56	.42	.32
SN74CBT3384ADWR	296-1169-2-ND	10-Bit FET Bus Switch	24-SOIC	372.00/2,000		
SN74CBT3384APWR	296-1170-1-ND	10-Bit FET Bus Switch	24-TSSOP	.51	.39	.29
SN74CBT3384APWR	296-1170-2-ND	10-Bit FET Bus Switch	24-TSSOP	338.00/2,000		
SN74CBT3384CDBQR	296-19227-1-ND	10-Bit FET Bus Switch	24-QSOP	.56	.42	.32
SN74CBT3384CDBQR	296-19227-2-ND	10-Bit FET Bus Switch	24-QSOP	455.00/2,500		
SN74CBT3384CDBR	296-19228-1-ND	10-Bit FET Bus Switch	24-SSOP	.56	.42	.32
SN74CBT3384CDBR	296-19228-2-ND	10-Bit FET Bus Switch	24-SSOP	372.00/2,000		
SN74CBT3384CDGVR	296-19229-1-ND	10-Bit FET Bus Switch	24-TVSOP	.62	.47	.35
SN74CBT3384CDGVR	296-19229-2-ND	10-Bit FET Bus Switch	24-TVSOP	410.00/2,000		
SN74CBT3384CDWR	296-19230-1-ND	10-Bit FET Bus Switch	24-SOIC	.56	.42	.32
SN74CBT3384CDWR	296-19230-2-ND	10-Bit FET Bus Switch	24-SOIC	372.00/2,000		
SN74CBT3384CPWR	296-19231-1-ND	10-Bit FET Bus Switch	24-TSSOP	.56	.42	.32
SN74CBT3384CPWR	296-19231-2-ND	10-Bit FET Bus Switch	24-TSSOP	372.00/2,000		
SN74CBT3861DBQR	296-6450-1-ND	10-Bit FET Bus Switch	24-QSOP	1.38	1.10	.83
SN74CBT3861DBQR	296-6450-2-ND	10-Bit FET Bus Switch	24-QSOP	1760.00/2,500		
SN74CBT3861DGVR	296-6451-1-ND	10-Bit FET Bus Switch	24-TVSOP	1.38	1.10	.83
SN74CBT3861DGVR	296-6451-2-ND	10-Bit FET Bus Switch	24-TVSOP	1430.00/2,000		
SN74CBT3861DWR	296-6452-1-ND	10-Bit FET Bus Switch	24-SOIC	1.38	1.10	.83
SN74CBT3861DWR	296-6452-2-ND	10-Bit FET Bus Switch	24-SOIC	1430.00/2,000		
SN74CBT3861PWR	296-6453-1-ND	10-Bit FET Bus Switch	24-TSSOP	1.38	1.10	.83
SN74CBT3861PWR	296-6453-2-ND	10-Bit FET Bus Switch	24-TSSOP	1430.00/2,000		
SN74CBT6800ADBQR	296-6454-1-ND	10-Bit FET Bus Switch with Precharged Output	24-QSOP	1.63	1.30	.98
SN74CBT6800ADBQR	296-6454-2-ND	10-Bit FET Bus Switch with Precharged Output	24-QSOP	2080.00/2,500		
SN74CBT6800ADBR	296-6455-1-ND	10-Bit FET Bus Switch with Precharged Output	24-SSOP	1.63	1.30	.98
SN74CBT6800ADBR	296-6455-2-ND	10-Bit FET Bus Switch with Precharged Output	24-SSOP	1690.00/2,000		
SN74CBT6800ADGVR	296-6456-1-ND	10-Bit FET Bus Switch with Precharged Output	24-TVSOP	1.63	1.30	.98
SN74CBT6800ADGVR	296-6456-2-ND	10-Bit FET Bus Switch with Precharged Output	24-TVSOP	1690.00/2,000		
SN74CBT6800ADW	296-6457-5-ND	10-Bit FET Bus Switch with Precharged Output	24-SOIC	1.63	1.30	.98
SN74CBT6800ADWR	296-6457-1-ND	10-Bit FET Bus Switch with Precharged Output	24-SOIC	1.63	1.30	.98
SN74CBT6800ADWR	296-6457-2-ND	10-Bit FET Bus Switch with Precharged Output	24-SOIC	1690.00/2,000		
SN74CBT6800APWR	296-6458-1-ND	10-Bit FET Bus Switch with Precharged Output	24-TSSOP	1.63	1.30	.98
SN74CBT6800APWR	296-6458-2-ND	10-Bit FET Bus Switch with Precharged Output	24-TSSOP	1690.00/2,000		
SN74CBT6800CDBQR	296-19232-1-ND	10-Bit FET Bus Switch with Precharged Output	24-SSOP	1.63	1.30	.98
SN74CBT6800CDBQR	296-19232-2-ND	10-Bit FET Bus Switch with Precharged Output	24-QSOP	2080.00/2,500		
SN74CBT6800CDBR	296-19233-1-ND	10-Bit FET Bus Switch with Precharged Output	24-QSOP	1.63	1.30	.98
SN74CBT6800CDBR	296-19233-2-ND	10-Bit FET Bus Switch with Precharged Output	24-SSOP	1690.00/2,000		
SN74CBT6800CDGVR	296-19234-1-ND	10-Bit FET Bus Switch with Precharged Output	24-TVSOP	1.63	1.30	.98
SN74CBT6800CDGVR	296-19234-2-ND	10-Bit FET Bus Switch with Precharged Output	24-TVSOP	1690.00/2,000		
SN74CBT6800CDWR	296-19235-1-ND	10-Bit FET Bus Switch with Precharged Output	24-SOIC	1.63	1.30	.98
SN74CBT6800CDWR	296-19235-2-ND	10-Bit FET Bus Switch with Precharged Output	24-SOIC	1690.00/2,000		
SN74CBT6800CPWR	296-19236-1-ND	10-Bit FET Bus Switch with Precharged Output	24-TSSOP	1.63	1.30	.98
SN74CBT6800CPWR	296-19236-2-ND	10-Bit FET Bus Switch with Precharged Output	24-TSSOP	1690.00/2,000		
SN74CBT6845CDBQR	296-19237-1-ND	8-Bit FET Bus Switch	20-QSOP	.56	.42	.32
SN74CBT6845CDBQR	296-19237-2-ND	8-Bit FET Bus Switch	20-QSOP	455.00/2,500		
SN74CBT6845CDBR	296-19238-1-ND	8-Bit FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT6845CDBR	296-19238-2-ND	8-Bit FET Bus Switch	20-SSOP	372.00/2,000		
SN74CBT6845CDGVR	296-19239-1-ND	8-Bit FET Bus Switch	20-TVSOP	.62	.47	.35
SN74CBT6845CDGVR	296-19239-2-ND	8-Bit FET Bus Switch	20-TVSOP	410.00/2,000		
SN74CBT6845CDWR	296-19240-1-ND	8-Bit FET Bus Switch	20-SOIC	.56	.42	.32
SN74CBT6845CDWR	296-19240-2-ND	8-Bit FET Bus Switch	20-SOIC	372.00/2,000		
SN74CBT6845CPWR	296-19241-1-ND	8-Bit FET Bus Switch	20-TSSOP	.56	.42	.32
SN74CBT6845CPWR	296-19241-2-ND	8-Bit FET Bus Switch	20-TSSOP	372.00/2,000		
SN74CBT6845CRGYR	296-19242-1-ND	8-Bit FET Bus Switch	20-QFN	.72	.54	.41
SN74CBT6845CRGYR	296-19242-2-ND	8-Bit FET Bus Switch	20-QFN	239.00/1,000		
SN74CBT16209ADGGR	296-1156-1-ND	18-Bit FET Bus-Exchange Switch	48-TSSOP	1.50	1.20	.90
SN74CBT16209ADGGR	296-1156-2-ND	18-Bit FET Bus-Exchange Switch	48-TSSOP	1560.00/2,000		
SN74CBT16209ADGVR	296-6385-1-ND	18-Bit FET Bus-Exchange Switch	48-TVSOP	1.50	1.20	.90
SN74CBT16209ADGVR	296-6385-2-ND	18-Bit FET Bus-Exchange Switch	48-TVSOP	1560.00/2,000		
SN74CBT16209ADL	296-1531-5-ND	18-Bit FET Bus-Exchange Switch	48-SSOP	1.50	1.20	.90
SN74CBT16210CDGGR	296-19164-1-ND	20-Bit FET Bus Switch	48-TSSOP	1.35	1.13	.90
SN74CBT16210CDGGR	296-19164-2-ND	20-Bit FET Bus Switch	48-TSSOP	1198.00/2,000		
SN74CBT16210CDGVR	296-19165-1-ND	20-Bit FET Bus Switch	48-TVSOP	1.35	1.13	.90
SN74CBT16210CDGVR	296-19165-2-ND	20-Bit FET Bus Switch	48-TVSOP	1198.00/2,000		
SN74CBT16210CDLR	296-19166-1-ND	20-Bit FET Bus Switch	48-SSOP	1.35	1.13	.90
SN74CBT16210CDLR	296-19166-2-ND	20-Bit FET Bus Switch	48-SSOP	599.00/1,000		
SN74CBT16210DGGR	296-6386-1-ND	20-Bit FET Bus Switch	48-TSSOP	1.35	1.13	.90
SN74CBT16210DGGR	296-6386-2-ND	20-Bit FET Bus Switch	48-TSSOP	1198.00/2,000		
SN74CBT16210DGVR	296-6387-1-ND	20-Bit FET Bus Switch	48-TVSOP	1.35	1.13	.90
SN74CBT16210DGVR	296-6387-2-ND	20-Bit FET Bus Switch	48-TVSOP	1198.00/2,000		
SN74CBT16210DL	296-6388-5-ND	20-Bit FET Bus Switch	48-SSOP	1.35	1.13	.90
SN74CBT16210DLR	296-6388-1-ND	20-Bit FET Bus Switch	48-SSOP	1.35	1.13	.90
SN74CBT16210DLR	296-6388-2-ND	20-Bit FET Bus Switch	48-SSOP	599.00/1,000		
SN74CBT16211ADGGR	296-1157-1-ND	24-Bit FET Bus Switch	56-TSSOP	1.35	1.13	.90
SN74CBT16211ADGGR	296-1157-2-ND	24-Bit FET Bus Switch	56-TSSOP	1198.00/2,000		
SN74CBT16211ADGVR	296-6389-1-ND	24-Bit FET Bus Switch	56-TVSOP	1.25	1.00	.75
SN74CBT16211ADGVR	296-6389-2-ND	24-Bit FET Bus Switch	56-TVSOP	1300.00/2,000		
SN74CBT16211ADL	296-1532-5-ND	24-Bit FET Bus Switch	56-SSOP	1.35	1.13	.90
SN74CBT16211ADLR	296-1532-1-ND	24-Bit FET Bus Switch	56-SSOP	1.35	1.13	.90
SN74CBT16211ADLR	296-1532-2-ND	24-Bit FET Bus Switch	56-SSOP	599.00/1,000		
SN74CBT16211AGQLR	296-9806-1-ND	24-Bit FET Bus Switch	56-VFBGA	2.25	1.80	1.35
SN74CBT16211AGQLR	296-9806-2-ND	24-Bit FET Bus Switch	56-VFBGA	1170.00/1,000		
SN74CBT16211CDGGR	296-19167-1-ND	24-Bit FET Bus Switch	56-TSSOP	1.35	1.13	.90
SN74CBT16211CDGGR	296-19167-2-ND	24-Bit FET Bus Switch	56-TSSOP	1198.00/2,000		
SN74CBT16211CDGVR	296-19168-1-ND	24-Bit FET Bus Switch	56-TVSOP	1.25	1.00	.75
SN74CBT16211CDGVR	296-19168-2-ND	24-Bit FET Bus Switch	56-TVSOP	1300.00/2,000		
SN74CBT16211CDLR	296-19169-1-ND	24-Bit FET Bus Switch	56-SSOP	1.35	1.13	.90
SN74CBT16211CDLR	296-19169-2-ND	24-Bit FET Bus Switch	56-SSOP	599.00/1,000		
SN74CBT16212ADGGR	296-1158-1-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1.50	1.20	.90
SN74CBT16212ADGGR	296-1158-2-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1560.00/2,000		
SN74CBT16212ADGVR	296-6390-1-ND	24-Bit FET Bus-Exchange Switch	56-TVSOP	1.55	1.24	.93
SN74CBT16212ADGVR	296-6390-2-ND	24-Bit FET Bus-Exchange Switch	56-TVSOP	1612.00/2,000		
SN74CBT16212ADLR	296-1159-1-ND	24-Bit FET Bus-Exchange Switch	56-SSOP	1.50	1.20	.90
SN74CBT16212ADLR	296-1159-2-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	780.00/1,000		
SN74CBT16212AGQLR	296-9807-1-ND	24-Bit FET Bus-Exchange Switch	56-VFBGA	2.70	2.16	1.68
SN74CBT16212AGQLR	296-9807-2-ND	24-Bit FET Bus-Exchange Switch	56-VFBGA	1530.00/1,000		
SN74CBT16212CDGGR	296-19170-1-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1.35	1.08	.81
SN74CBT16212CDGGR	296-19170-2-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1404.00/2,000		
SN74CBT16212CDGVR	296-19171-1-ND	24-Bit FET Bus-Exchange Switch	56-TVSOP	1.35	1.08	.81
SN74CBT16212CDGVR	296-19171-2-ND	24-Bit FET Bus-Exchange Switch	56-TVSOP	1404.00/2,000		
SN74CBT16212CDLR	296-19172-1-ND	24-Bit FET Bus-Exchange Switch	56-SSOP	1.35	1.08	.81
SN74CBT16212CDLR	296-19172-2-ND	24-Bit FET Bus-Exchange Switch	56-SSOP	702.00/1,000		
SN74CBT16213DGGR	296-6391-1-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1.30	1.04	.78
SN74CBT16213DGGR	296-6391-2-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1352.00/2,000		
SN74CBT16213DL	296-6392-5-ND	24-Bit FET Bus-Exchange Switch	56-SSOP	1.30	1.04	.78
SN74CBT16214CDGGR	296-19173-1-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1.25	1.00	.75
SN74CBT16214CDGGR	296-19173-2-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1300.00/2,000		
SN74CBT16214CDLR	296-19174-1-ND	12-Bit, 1-of-3 FET Mux/Demux	56-SSOP	1.25	1.00	.75
SN74CBT16214CDLR	296-19174-2-ND	12-Bit, 1-of-3 FET Mux/Demux	56-SSOP	650.00/1,000		
SN74CBT16214DGGR	296-6393-1-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1.38	1.10	.83
SN74CBT16214DGGR	296-6393-2-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1430.00/2,000		
SN74CBT16232DGGR	296-6395-1-ND	Sync. 16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1.25	1.00	.75
SN74CBT16232DGGR	296-6395-2-ND	Sync. 16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1300.00/2,000		
SN74CBT16232DLR	296-6396-1-ND	Sync. 16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	1.25	1.00	.75
SN74CBT16232DLR	296-6396-2-ND	Sync. 16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	650.00/1,000		
SN74CBT16233DGGR	296-1161-1-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1.35	1.13	.90
SN74CBT16233DGGR	296-1161-2-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1198.00/2,000		
SN74CBT16233DGVR	296-6397-1-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	1.25	1.00	.75
SN74CBT16233DGVR	296-6397-2-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	1300.00/2,000		
SN74CBT16233DLR	296-6398-1-ND	16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	1.25	1.00	.75
SN74CBT16233DLR	296-6398-2-ND	16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	650.00/1,000		
SN74CBT16244CDGGR	296-19175-1-ND	16-Bit FET Bus Switch	48-TSSOP	1.25	1.00	.75
SN74CBT16244CDGGR	296-19175-2-ND	16-Bit FET Bus Switch	48-TSSOP	1300.00/2,000		
SN74CBT16244CDGVR	296-19176-1-ND	16-Bit FET Bus Switch	48-TVSOP	1.25	1.00	.75
SN74CBT16244CDGVR	296-19176-2-ND	16-Bit FET Bus Switch	48-TVSOP	1300.00/2,000		
SN74CBT16244CDLR	296-19177-1-ND	16-Bit FET Bus Switch	48-SSOP	1.25	1.00	.75
SN74CBT16244CDLR	296-19177-2-ND	16-Bit FET Bus Switch	48-SSOP	650.00/1,000		
SN74CBT16244DGGR	296-6399-1-ND	16-Bit FET Bus Switch	48-TSSOP	1.25	1.00	.75
SN74CBT16244DGGR	296-6399-2-ND	16-Bit FET Bus Switch	48-TSSOP	1300.00/2,000		
SN74CBT16244DGVR	296-6400-1-ND	16-Bit FET Bus Switch	48-TVSOP	1.25	1.00	.75
SN74CBT16244DGVR	296-6400-2-ND	16-Bit FET Bus Switch	48-TVSOP	1300.00/2,000		
SN74CBT16244DLR	296-6401-1-ND	16-Bit FET Bus Switch	48-SSOP	1.25	1.00	.75
SN74CBT16244DLR	296-6401-2-ND	16-Bit FET Bus Switch	48-SSOP	650.00/1,000		
SN74CBT16245CDGGR	296-19178-1-ND	16-Bit FET Bus Switch	48-TSSOP	1.25	1.00	.75
SN74CBT16245CDGGR	296-19178-2-ND	16-Bit FET Bus Switch	48-TSSOP	1300.00/2,000		
SN74CBT16245CDGVR	296-19179-1-ND	16-Bit FET Bus Switch	48-TVSOP	1.25	1.00	.75

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBT16245CDGVR	296-19179-2-ND	16-Bit FET Bus Switch	48-TVSOP	1300.00/2,000		
SN74CBT16245CDLR	296-19180-1-ND	16-Bit FET Bus Switch	48-SSOP	1.25	1.00	.75
SN74CBT16245CDLR	296-19180-2-ND	16-Bit FET Bus Switch	48-SSOP	650.00/1,000		
SN74CBT16245DGGR	296-6402-1-ND	16-Bit FET Bus Switch	48-TSSOP	1.25	1.00	.75
SN74CBT16245DGGR	296-6402-2-ND	16-Bit FET Bus Switch	48-TSSOP	1300.00/2,000		
SN74CBT16245DGVR	296-6403-1-ND	16-Bit FET Bus Switch	48-TVSOP	1.25	1.00	.75
SN74CBT16245DGVR	296-6403-2-ND	16-Bit FET Bus Switch	48-TVSOP	1300.00/2,000		
SN74CBT16245DLR	296-6404-1-ND	16-Bit FET Bus Switch	48-SSOP	1.25	1.00	.75
SN74CBT16245DLR	296-6404-2-ND	16-Bit FET Bus Switch	48-SSOP	650.00/1,000		
SN74CBT16292DGGR	296-1162-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	1.38	1.10	.83
SN74CBT16292DGGR	296-1162-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	1430.00/2,000		
SN74CBT16292DGVR	296-6405-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	1.38	1.10	.83
SN74CBT16292DGVR	296-6405-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	1430.00/2,000		
SN74CBT16292DL	296-1534-5-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	1.38	1.10	.83
SN74CBT16292DLR	296-1534-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	1.38	1.10	.83
SN74CBT16292DLR	296-1534-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	715.00/1,000		
SN74CBT16390DGGR	296-1163-1-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TSSOP	5.06	4.05	3.42
SN74CBT16390DGGR	296-1163-2-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TSSOP	6326.00/2,000		
SN74CBT16390DGVR	296-6406-1-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TVSOP	5.06	4.05	3.42
SN74CBT16390DGVR	296-6406-2-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TVSOP	6326.00/2,000		
SN74CBT16390DL	296-1535-5-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-SSOP	5.06	4.05	3.42
SN74CBT16800CDGGR	296-19181-1-ND	20-Bit FET Bus Switch	48-TSSOP	1.25	1.00	.75
SN74CBT16800CDGGR	296-19181-2-ND	20-Bit FET Bus Switch	48-TSSOP	1300.00/2,000		
SN74CBT16800CDGVR	296-19182-1-ND	20-Bit FET Bus Switch	48-TVSOP	1.25	1.00	.75
SN74CBT16800CDGVR	296-19182-2-ND	20-Bit FET Bus Switch	48-TVSOP	1300.00/2,000		
SN74CBT16800CDLR	296-19183-1-ND	20-Bit FET Bus Switch	48-SSOP	1.25	1.00	.75
SN74CBT16800CDLR	296-19183-2-ND	20-Bit FET Bus Switch	48-SSOP	650.00/1,000		
SN74CBT16811CDGGR	296-19184-1-ND	24-Bit FET Bus Switch	56-TSSOP	1.25	1.00	.75
SN74CBT16811CDGGR	296-19184-2-ND	24-Bit FET Bus Switch	56-TSSOP	1300.00/2,000		
SN74CBT16811CDGVR	296-19185-1-ND	24-Bit FET Bus Switch	56-TVSOP	1.25	1.00	.75
SN74CBT16811CDGVR	296-19185-2-ND	24-Bit FET Bus Switch	56-TVSOP	1300.00/2,000		
SN74CBT16811CDLR	296-19186-1-ND	24-Bit FET Bus Switch	56-SSOP	1.25	1.00	.75
SN74CBT16811CDLR	296-19186-2-ND	24-Bit FET Bus Switch	56-SSOP	650.00/1,000		
SN74CBT16861DGGR	296-6407-1-ND	20-Bit FET Bus Switch	48-TSSOP	2.48	1.98	1.54
SN74CBT16861DGGR	296-6407-2-ND	20-Bit FET Bus Switch	48-TSSOP	2806.00/2,000		
SN74CBT16861DGVR	296-6408-1-ND	20-Bit FET Bus Switch	48-TVSOP	2.48	1.98	1.54
SN74CBT16861DGVR	296-6408-2-ND	20-Bit FET Bus Switch	48-TVSOP	2806.00/2,000		
SN74CBT16861DLR	296-6409-1-ND	20-Bit FET Bus Switch	48-SSOP	2.48	1.98	1.54
SN74CBT16861DLR	296-6409-2-ND	20-Bit FET Bus Switch	48-SSOP	1403.00/1,000		
SN74CBT32245ZKER	296-23253-1-ND	32-Bit FET Bus Switch ***NEW!***	96-LFBGA	2.59	2.07	1.61
SN74CBT32245ZKER	296-23253-2-ND	32-Bit FET Bus Switch ***NEW!***	96-LFBGA	1466.00/1,000		
SN74CBT162292DGGR	296-1160-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	2.70	2.16	1.68
SN74CBT162292DGGR	296-1160-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	3060.00/2,000		
SN74CBT162292DGVR	296-12881-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	2.70	2.16	1.68
SN74CBT162292DGVR	296-12881-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	3060.00/2,000		
SN74CBT162292DL	296-1533-5-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	2.70	2.16	1.68
SN74CBTD1G125DBVR	296-12211-1-ND	Single FET Bus Switch w/Level Shifting	SOT-23-5	.55	.44	.33
SN74CBTD1G125DBVR	296-12211-2-ND	Single FET Bus Switch w/Level Shifting	SOT-23-5	447.00/3,000		
SN74CBTD1G125DCKR	296-6476-1-ND	Single FET Bus Switch with Level Shifting	SC70-5	.55	.44	.33
SN74CBTD1G125DCKR	296-6476-2-ND	Single FET Bus Switch with Level Shifting	SC70-5	447.00/3,000		
SN74CBTD1G384DBVR	296-12415-1-ND	Single FET Bus Switch w/Level Shifting	SOT-23-5	.55	.44	.33
SN74CBTD1G384DBVR	296-12415-2-ND	Single FET Bus Switch w/Level Shifting	SOT-23-5	447.00/3,000		
SN74CBTD1G384DBVT	296-23254-1-ND	Single FET Bus Switch with Level Shifting ***NEW!***	SOT-23-5	.78	.65	.52
SN74CBTD1G384DBVT	296-23254-2-ND	Single FET Bus Switch with Level Shifting ***NEW!***	SOT-23-5	97.50/250		
SN74CBTD1G384DCKR	296-12416-1-ND	Single FET Bus Switch with Level Shifting	SC70-5	.55	.44	.33
SN74CBTD1G384DCKR	296-12416-2-ND	Single FET Bus Switch with Level Shifting	SC70-5	447.00/3,000		
SN74CBTD3305CDR	296-19243-1-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	.56	.42	.32
SN74CBTD3305CDR	296-19243-2-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	455.00/2,500		
SN74CBTD3305CPWR	296-17508-1-ND	Dual FET Bus Switch with Level Shifting	8-TSSOP	.56	.42	.32
SN74CBTD3305CPWR	296-17508-2-ND	Dual FET Bus Switch with Level Shifting	8-TSSOP	372.00/2,000		
SN74CBTD3306CDR	296-19244-1-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	.56	.42	.32
SN74CBTD3306CDR	296-19244-2-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	455.00/2,500		
SN74CBTD3306CPWR	296-17989-1-ND	Dual FET Bus Switch with Level Shifting	8-TSSOP	.56	.42	.32
SN74CBTD3306CPWR	296-17989-2-ND	Dual FET Bus Switch with Level Shifting	8-TSSOP	372.00/2,000		
SN74CBTD3306D	296-6477-5-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	.56	.42	.32
SN74CBTD3306DR	296-14800-1-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	.56	.42	.32
SN74CBTD3306DR	296-14800-2-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	455.00/2,500		
SN74CBTD3306PWR	296-6478-1-ND	Dual FET Bus Switch with Level Shifting	8-TSSOP	.56	.42	.32
SN74CBTD3306PWR	296-6478-2-ND	Dual FET Bus Switch with Level Shifting	8-TSSOP	372.00/2,000		
SN74CBTD3384CDBQR	296-18052-1-ND	10-Bit FET Bus Switch with Level Shifting	24-QSOP	.64	.48	.36
SN74CBTD3384CDBQR	296-18052-2-ND	10-Bit FET Bus Switch with Level Shifting	24-QSOP	520.00/2,500		
SN74CBTD3384CDBR	296-17537-1-ND	10-Bit FET Bus Switch with Level Shifting	24-SSOP	.64	.48	.36
SN74CBTD3384CDBR	296-17537-2-ND	10-Bit FET Bus Switch with Level Shifting	24-SSOP	426.00/2,000		
SN74CBTD3384CDGVR	296-19245-1-ND	10-Bit FET Bus Switch with Level Shifting	24-TVSOP	.70	.53	.40
SN74CBTD3384CDGVR	296-19245-2-ND	10-Bit FET Bus Switch with Level Shifting	24-TVSOP	468.00/2,000		
SN74CBTD3384CDWR	296-19246-1-ND	10-Bit FET Bus Switch with Level Shifting	24-SOIC	.64	.48	.36
SN74CBTD3384CDWR	296-19246-2-ND	10-Bit FET Bus Switch with Level Shifting	24-SOIC	426.00/2,000		

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBTD3384CPWR	296-17538-1-ND	10-Bit FET Bus Switch with Level Shifting	24-TSSOP	.64	.48	.36
SN74CBTD3384CPWR	296-17538-2-ND	10-Bit FET Bus Switch with Level Shifting	24-TSSOP	426.00/2,000		
SN74CBTD3384DBQR	296-6479-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-QSOP	.64	.48	.36
SN74CBTD3384DBQR	296-6479-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-QSOP	520.00/2,500		
SN74CBTD3384DBR	296-6480-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	.64	.48	.36
SN74CBTD3384DBR	296-6480-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	426.00/2,000		
SN74CBTD3384DGVR	296-6481-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	.70	.53	.40
SN74CBTD3384DGVR	296-6481-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	468.00/2,000		
SN74CBTD3384DW	296-6482-5-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	.72	.54	.41
SN74CBTD3384DWR	296-6482-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	.64	.48	.36
SN74CBTD3384DWR	296-6482-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	426.00/2,000		
SN74CBTD3384PWR	296-1173-1-ND	10-Bit FET Bus Switch with Level Shifting	24-TSSOP	.64	.48	.36
SN74CBTD3384PWR	296-1173-2-ND	10-Bit FET Bus Switch with Level Shifting	24-TSSOP	426.00/2,000		
SN74CBTD3861DBQR	296-6483-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-QSOP	.64	.48	.36
SN74CBTD3861DBQR	296-6483-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-QSOP	520.00/2,500		
SN74CBTD3861DBR	296-6484-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	.64	.48	.36
SN74CBTD3861DBR	296-6484-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	426.00/2,000		
SN74CBTD3861DGVR	296-6485-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	.70	.53	.40
SN74CBTD3861DGVR	296-6485-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	468.00/2,000		
SN74CBTD3861DW	296-6486-5-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	.64	.48	.36
SN74CBTD3861PWR	296-6487-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-TSSOP	.64	.48	.36
SN74CBTD3861PWR	296-6487-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-TSSOP	426.00/2,000		
SN74CBTD16210DGGR	296-1171-1-ND	20-Bit FET Bus Switch w/Level Shifting	48-TSSOP	2.48	1.98	1.54
SN74CBTD16210DGGR	296-1171-2-ND	20-Bit FET Bus Switch w/Level Shifting	48-TSSOP	2806.00/2,000		
SN74CBTD16210DGVR	296-6474-1-ND	20-Bit FET Bus Switch w/Level Shifting	48-TVSOP	2.48	1.98	1.54
SN74CBTD16210DGVR	296-6474-2-ND	20-Bit FET Bus Switch w/Level Shifting	48-TVSOP	2806.00/2,000		
SN74CBTD16210DL	296-1541-5-ND	20-Bit FET Bus Switch w/Level Shifting	48-SSOP	2.48	1.98	1.54
SN74CBTD16210DLR	296-1541-1-ND	20-Bit FET Bus Switch w/Level Shifting	48-SSOP	2.48	1.98	1.54
SN74CBTD16210DLR	296-1541-2-ND	20-Bit FET Bus Switch w/Level Shifting	48-SSOP	1403.00/1,000		
SN74CBTD16211DGGR	296-1172-1-ND	24-Bit FET Bus Switch w/Level Shifting	56-TSSOP	2.70	2.16	1.68
SN74CBTD16211DGGR	296-1172-2-ND	24-Bit FET Bus Switch w/Level Shifting	56-TSSOP	3060.00/2,000		
SN74CBTD16211DGVR	296-6475-1-ND	24-Bit FET Bus Switch w/Level Shifting	56-TVSOP	2.70	2.16	1.68
SN74CBTD16211DGVR	296-6475-2-ND	24-Bit FET Bus Switch w/Level Shifting	56-TVSOP	3060.00/2,000		
SN74CBTD16211DL	296-1542-5-ND	24-Bit FET Bus Switch w/Level Shifting	56-SSOP	2.70	2.16	1.68
SN74CBTH16211DGGR	296-6461-1-ND	24-Bit FET Bus Switch with Bus Hold	56-TSSOP	2.97	2.38	1.85
SN74CBTH16211DGGR	296-6461-2-ND	24-Bit FET Bus Switch with Bus Hold	56-TSSOP	3366.00/2,000		
SN74CBTH16211DL	296-1543-5-ND	24-Bit FET Bus Switch with Bus Hold	56-SSOP	2.97	2.38	1.85
SN74CBTK6800DBQR	296-6492-1-ND	10-Bit FET Bus Switch	24-QSOP	1.63	1.30	.98
SN74CBTK6800DBQR	296-6492-2-ND	10-Bit FET Bus Switch	24-QSOP	2080.00/2,500		
SN74CBTK6800DGVR	296-6493-1-ND	10-Bit FET Bus Switch	24-TVSOP	1.63	1.30	.98
SN74CBTK6800DGVR	296-6493-2-ND	10-Bit FET Bus Switch	24-TVSOP	1690.00/2,000		
SN74CBTK6800DWR	296-6494-1-ND	10-Bit FET Bus Switch	24-SOIC	1.63	1.30	.98
SN74CBTK6800DWR	296-6494-2-ND	10-Bit FET Bus Switch	24-SOIC	1690.00/2,000		
SN74CBTK6800PWR	296-6495-1-ND	10-Bit FET Bus Switch	24-TSSOP	1.63	1.30	.98
SN74CBTK6800PWR	296-6495-2-ND	10-Bit FET Bus Switch	24-TSSOP	1690.00/2,000		
SN74CBTK16245DGGR	296-6488-1-ND	16-Bit FET Bus Switch	48-TSSOP	3.47	2.78	2.16
SN74CBTK16245DGGR	296-6488-2-ND	16-Bit FET Bus Switch	48-TSSOP	3928.00/2,000		
SN74CBTK16245DGVR	296-6489-1-ND	16-Bit FET Bus Switch	48-TVSOP	3.47	2.78	2.16
SN74CBTK16245DGVR	296-6489-2-ND	16-Bit FET Bus Switch	48-TVSOP	3928.00/2,000		
SN74CBTK16245DLR	296-6490-1-ND	16-Bit FET Bus Switch	48-SSOP	3.47	2.78	2.16
SN74CBTK16245DLR	296-6490-2-ND	16-Bit FET Bus Switch	48-SSOP	1964.00/1,000		
SN74CBTK32245GKER	296-6491-1-ND	32-Bit FET Bus Switch	96-LFBGA	6.00	4.80	4.05
SN74CBTK32245GKER	296-6491-2-ND	32-Bit FET Bus Switch	96-LFBGA	3750.00/1,000		
SN74CBTLV1G125DBVR	296-9109-1-ND	Low Voltage Single FET Bus Switch	SOT-23-5	.53	.40	.30
SN74CBTLV1G125DBVR	296-9109-2-ND	Low Voltage Single FET Bus Switch	SOT-23-5	516.00/3,000		
SN74CBTLV1G125DCKR	296-9110-1-ND	Low Voltage Single FET Bus Switch	SC70-5	.53	.40	.30
SN74CBTLV1G125DCKR	296-9110-2-ND	Low Voltage Single FET Bus Switch	SC70-5	516.00/3,000		
SN74CBTLV3125DBQR	296-9111-1-ND	Low Voltage Quad FET Bus Switch	16-QSOP	.88	.66	.50
SN74CBTLV3125DBQR	296-9111-2-ND	Low Voltage Quad FET Bus Switch	16-QSOP	715.00/2,500		
SN74CBTLV3125DGVR	296-9112-1-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	.88	.66	.50
SN74CBTLV3125DGVR	296-9112-2-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	586.00/2,000		
SN74CBTLV3125DR	296-9113-1-ND	Low Voltage Quad FET Bus Switch	14-SOIC	.88	.66	.50
SN74CBTLV3125DR	296-9113-2-ND	Low Voltage Quad FET Bus Switch	14-SOIC	715.00/2,500		
SN74CBTLV3125PWR	296-9114-1-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	.70	.53	.40
SN74CBTLV3125PWR	296-9114-2-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	468.00/2,000		
SN74CBTLV3125RGYR	296-15103-1-ND	Low Voltage Quad FET Bus Switch	14-QFN	.81	.68	.54
SN74CBTLV3125RGYR	296-15103-2-ND	Low Voltage Quad FET Bus Switch	14-QFN	359.00/1,000		
SN74CBTLV3126DBQR	296-9115-1-ND	Low Voltage Quad FET Bus Switch	16-QSOP	.88	.66	.50
SN74CBTLV3126DBQR	296-9115-2-ND	Low Voltage Quad FET Bus Switch	16-QSOP	715.00/2,500		
SN74CBTLV3126DGVR	296-9116-1-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	.88	.66	.50
SN74CBTLV3126DGVR	296-9116-2-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	586.00/2,000		
SN74CBTLV3126DR	296-9117-1-ND	Low Voltage Quad FET Bus Switch	14-SOIC	.88	.66	.50
SN74CBTLV3126DR	296-9117-2-ND	Low Voltage Quad FET Bus Switch	14-SOIC	715.00/2,500		
SN74CBTLV3126PWR	296-9118-1-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	.88	.66	.50
SN74CBTLV3126PWR	296-9118-2-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	586.00/2,000		
SN74CBTLV3126RGYR	296-15104-1-ND	Low Voltage Quad FET Bus Switch	14-QFN	.81	.68	.54
SN74CBTLV3126RGYR	296-15104-2-ND	Low Voltage Quad FET Bus Switch	14-QFN	359.00/1,000		
SN74CBTLV3245ADBQR	296-9119-1-ND	Low Voltage Octal FET Bus Switch	20-QSOP	.88	.66	.50
SN74CBTLV3245ADBQR	296-9119-2-ND	Low Voltage Octal FET Bus Switch	20-QSOP	715.00/2,500		
SN74CBTLV3245ADGVR	296-9120-1-ND	Low Voltage Octal FET Bus Switch	20-TVSOP	.88	.66	.50
SN74CBTLV3245ADGVR	296-9120-2-ND	Low Voltage Octal FET Bus Switch	20-TVSOP	586.00/2,000		
SN74CBTLV3245ADW	296-1544-5-ND	Low Voltage Octal FET Bus Switch	20-SOIC	.88	.66	.50
SN74CBTLV3245ADWR	296-1544-1-ND	Low Voltage Octal FET Bus Switch	20-SOIC	.88	.66	.50
SN74CBTLV3245ADWR	296-1544-2-ND	Low Voltage Octal FET Bus Switch	20-SOIC	586.00/2,000		
SN74CBTLV3245APWR	296-9121-1-ND	Low Voltage Octal FET Bus Switch	20-TSSOP	.57	.43	.33
SN74CBTLV3245APWR	296-9121-2-ND	Low Voltage Octal FET Bus Switch	20-TSSOP	380.00/2,000		
SN74CBTLV3245ARGYR	296-17822-1-ND	Low Voltage Octal FET Bus Switch	20-QFN	.81	.68	.54
SN74CBTLV3245ARGYR	296-17822-2-ND	Low Voltage Octal FET Bus Switch	20-QFN	359.00/1,000		
SN74CBTLV3245AZQNR	296-23255-1-ND	Low Volt. Octal FET Bus Switch ***NEW!***	20-VFBGA	.81	.68	.54
SN74CBTLV3245AZQNR	296-23255-2-ND	Low Volt. Octal FET Bus Switch ***NEW!***	20-VFBGA	359.00/1,000		
SN74CBTLV3251DBQR	296-9126-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-QSOP	.88	.66	.50
SN74CBTLV3251DBQR	296-9126-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-QSOP	715.00/2,500		
SN74CBTLV3251DGVR	296-9127-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-TVSOP	.88	.66	.50
SN74CBTLV3251DGVR	296-9127-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-TVSOP	586.00/2,000		
SN74CBTLV3251DR	296-9128-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-SOIC	.88	.66	.50
SN74CBTLV3251DR	296-9128-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-SOIC	715.00/2,500		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74CBTLV3251PWR	296-9129-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-TSSOP	.88	.66	.50
SN74CBTLV3251PWR	296-9129-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-TSSOP	586.00/2,000		
SN74CBTLV3251RGYR	296-15105-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-QFN	.81	.68	.54
SN74CBTLV3251RGYR	296-15105-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-QFN	359.00/1,000		
SN74CBTLV3253DBQR	296-9130-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-QSOP	.88	.66	.50
SN74CBTLV3253DBQR	296-9130-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-QSOP	715.00/2,500		
SN74CBTLV3253DGVR	296-9131-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-TVSOP	.88	.66	.50
SN74CBTLV3253DGVR	296-9131-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-TVSOP	586.00/2,000		
SN74CBTLV3253DR	296-9132-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-SOIC	.88	.66	.50
SN74CBTLV3253DR	296-9132-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-SOIC	715.00/2,500		
SN74CBTLV3253PWR	296-9133-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-TSSOP	.88	.66	.50
SN74CBTLV3253PWR	296-9133-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-TSSOP	586.00/2,000		
SN74CBTLV3253RGYR	296-15106-1-ND	Low Voltage Dual 1-of-4 FET Mux/Demux	16-QFN	.81	.68	.54
SN74CBTLV3253RGYR	296-15106-2-ND	Low Voltage Dual 1-of-4 FET Mux/Demux	16-QFN	359.00/1,000		
SN74CBTLV3257D	296-9134-5-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.88	.66	.50
SN74CBTLV3257DBQR	296-9135-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	.66	.50	.38
SN74CBTLV3257DBQR	296-9135-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-QSOP	537.50/2,500		
SN74CBTLV3257DGVR	296-9136-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	.88	.66	.50
SN74CBTLV3257DGVR	296-9136-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	586.00/2,000		
SN74CBTLV3257DR	296-9137-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.88	.66	.50
SN74CBTLV3257DR	296-9137-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	715.00/2,500		
SN74CBTLV3257PWR	296-9138-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	.66	.50	.38
SN74CBTLV3257PWR	296-9138-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	438.00/2,000		
SN74CBTLV3257RGYR	296-15107-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-QFN	.81	.68	.54
SN74CBTLV3257RGYR	296-15107-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-QFN	359.00/1,000		
SN74CBTLV3383DBQR	296-9139-1-ND	LV 10-Bit FET Bus-Exchange Switch	24-QSOP	.88	.66	.50
SN74CBTLV3383DBQR	296-9139-2-ND	LV 10-Bit FET Bus-Exchange Switch	24-QSOP	715.00/2,500		
SN74CBTLV3383DGVR	296-9140-1-ND	LV 10-Bit FET Bus-Exchange Switch	24-TVSOP	.96	.72	.54
SN74CBTLV3383DGVR	296-9140-2-ND	LV 10-Bit FET Bus-Exchange Switch	24-TVSOP	638.00/2,000		
SN74CBTLV3383DW	296-1545-5-ND	LV 10-Bit FET Bus-Exchange Switch	24-SOIC	.88	.66	.50
SN74CBTLV3383DWR	296-1545-1-ND	LV 10-Bit FET Bus-Exchange Switch	24-SOIC	.88	.66	.50
SN74CBTLV3383DWR	296-1545-2-ND	LV 10-Bit FET Bus-Exchange Switch	24-SOIC	586.00/2,000		
SN74CBTLV3383PWR	296-9141-1-ND	LV 10-Bit FET Bus-Exchange Switch	24-TSSOP	.88	.66	.50
SN74CBTLV3383PWR	296-9141-2-ND	LV 10-Bit FET Bus-Exchange Switch	24-TSSOP	586.00/2,000		
SN74CBTLV3384DBQR	296-9142-1-ND	Low Voltage 10-Bit FET Bus Switch	24-QSOP	.88	.66	.50
SN74CBTLV3384DBQR	296-9142-2-ND	Low Voltage 10-Bit FET Bus Switch	24-QSOP	715.00/2,500		
SN74CBTLV3384DGVR	296-9143-1-ND	Low Voltage 10-Bit FET Bus Switch	24-TVSOP	.88	.66	.50
SN74CBTLV3384DGVR	296-9143-2-ND	Low Voltage 10-Bit FET Bus Switch	24-TVSOP	586.00/2,000		
SN74CBTLV3384DW	296-1546-5-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	.88	.66	.50
SN74CBTLV3384DWR	296-1546-1-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	.88	.66	.50
SN74CBTLV3384DWR	296-1546-2-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	586.00/2,000		
SN74CBTLV3384PWR	296-9144-1-ND	Low Voltage 10-Bit FET Bus Switch	24-TSSOP	.88	.66	.50
SN74CBTLV3384PWR	296-9144-2-ND	Low Voltage 10-Bit FET Bus Switch	24-TSSOP	586.00/2,000		
SN74CBTLV3857DBQR	296-9145-1-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-QSOP	.88	.66	.50
SN74CBTLV3857DBQR	296-9145-2-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-QSOP	715.00/2,500		
SN74CBTLV3857DGVR	296-9146-1-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-TVSOP	.88	.66	.50
SN74CBTLV3857DGVR	296-9146-2-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-TVSOP	586.00/2,000		
SN74CBTLV3857DW	296-9147-5-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-SOIC	.88	.66	.50
SN74CBTLV3857DWR	296-9147-1-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-SOIC	.88	.66	.50
SN74CBTLV3857DWR	296-9147-2-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-SOIC	586.00/2,000		
SN74CBTLV3857PWR	296-9148-1-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-TSSOP	.88	.66	.50
SN74CBTLV3857PWR	296-9148-2-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-TSSOP	586.00/2,000		
SN74CBTLV3861DBQR	296-9149-1-ND	Low Voltage 10-Bit FET Bus Switch	24-QSOP	.88	.66	.50
SN74CBTLV3861DBQR	296-9149-2-ND	Low Voltage 10-Bit FET Bus Switch	24-QSOP	715.00/2,500		
SN74CBTLV3861DGVR	296-9152-1-ND	Low Voltage 10-Bit FET Bus Switch	24-TVSOP	.92	.69	.52
SN74CBTLV3861DGVR	296-9152-2-ND	Low Voltage 10-Bit FET Bus Switch	24-TVSOP	612.00/2,000		
SN74CBTLV3861DWR	296-9151-1-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	.88	.66	.50
SN74CBTLV3861DWR	296-9151-2-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	586.00/2,000		
SN74CBTLV3861NSR	296-13182-1-ND	Low Voltage 10-Bit FET Bus Switch	24-SOP	.88	.66	.50
SN74CBTLV3861NSR	296-13182-2-ND	Low Voltage 10-Bit FET Bus Switch	24-SOP	586.00/2,000		
SN74CBTLV3861PWR	296-9153-1-ND	Low Voltage 10-Bit FET Bus Switch	24-TSSOP	.88	.66	.50
SN74CBTLV3861PWR	296-9153-2-ND	Low Voltage 10-Bit FET Bus Switch	24-TSSOP	586.00/2,000		
SN74CBTLV16210DLR	296-6496-1-ND	Low Voltage 20-Bit FET Bus Switch	48-SSOP	2.25	1.80	1.40
SN74CBTLV16210DLR	296-6496-2-ND	Low Voltage 20-Bit FET Bus Switch	48-SSOP	1275.00/1,000		
SN74CBTLV16210GR	296-6497-1-ND	Low Voltage 20-Bit FET Bus Switch	48-TSSOP	2.00	1.60	1.20
SN74CBTLV16210GR	296-6497-2-ND	Low Voltage 20-Bit FET Bus Switch	48-TSSOP	2080.00/2,000		
SN74CBTLV16210VR	296-6498-1-ND	Low Voltage 20-Bit FET Bus Switch	48-TVSOP	2.00	1.60	1.20
SN74CBTLV16210VR	296-6498-2-ND	Low Voltage 20-Bit FET Bus Switch	48-TVSOP	2080.00/2,000		
SN74CBTLV16211DLR	296-6499-1-ND	Low Voltage 24-Bit FET Bus Swit ch	56-SSOP	2.00	1.60	1.20
SN74CBTLV16211DLR	296-6499-2-ND	Low Voltage 24-Bit FET Bus Switch	56-SSOP	1040.00/1,000		
SN74CBTLV16211GR	296-6500-1-ND	Low Voltage 24-Bit FET Bus Switch	56-TSSOP	2.00	1.60	1.20
SN74CBTLV16211GR	296-6500-2-ND	Low Voltage 24-Bit FET Bus Switch	56-TSSOP	2080.00/2,000		
SN74CBTLV16211VR	296-9100-1-ND	Low Voltage 24-Bit FET Bus Switch	56-TVSOP	2.00	1.60	1.20
SN74CBTLV16211VR	296-9100-2-ND	Low Voltage 24-Bit FET Bus Switch	56-TVSOP	2080.00/2,000		
SN74CBTLV16212DLR	296-9101-1-ND	LV 24-Bit FET Bus-Exchange Switch	56-SSOP	2.00	1.60	1.20
SN74CBTLV16212DLR	296-9101-2-ND	LV 24-Bit FET Bus-Exchange Switch	56-SSOP	1040.00/1,000		
SN74CBTLV16212GR	296-9102-1-ND	LV 24-Bit FET Bus-Exchange Switch	56-TSSOP	2.00	1.60	1.20
SN74CBTLV16212GR	296-9102-2-ND	LV 24-Bit FET Bus-Exchange Switch	56-TSSOP	2080.00/2,000		
SN74CBTLV16212VR	296-9103-1-ND	LV 24-Bit FET Bus-Exchange Switch	56-TVSOP	2.00	1.60	1.20
SN74CBTLV16212VR	296-9103-2-ND	LV 24-Bit FET Bus-Exchange Switch	56-TVSOP	2080.00/2,000		
SN74CBTLV16292DLR	296-9104-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-SSOP	2.00	1.60	1.20
SN74CBTLV16292DLR	296-9104-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-SSOP	1040.00/1,000		
SN74CBTLV16292GR	296-9105-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	2.00	1.60	1.20
SN74CBTLV16292GR	296-9105-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	2080.00/2,000		
SN74CBTLV16292VR	296-12882-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	2.00	1.60	1.20
SN74CBTLV16292VR	296-12882-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	2080.00/2,000		
SN74CBTLV16800DLR	296-9106-1-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-SSOP	2.00	1.60	1.20
SN74CBTLV16800DLR	296-9106-2-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-SSOP	1040.00/1,000		
SN74CBTLV16800GR	296-9107-1-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TSSOP	2.00	1.60	1.20
SN74CBTLV16800GR	296-9107-2-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TSSOP	2080.00/2,000		
SN74CBTLV16800VR	296-9108-1-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TVSOP	2.00	1.60	1.20
SN74CBTLV16800VR	296-9108-2-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TVSOP	2080.00/2,000		
SN74CBTLVR16292GR	296-9154-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	3.15	2.52	1.96
SN74CBTLVR16292GR	296-9154-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	3570.00/2,000		
SN74CBTLVR16292LR	296-9155-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	3.15	2.52	1.96
SN74CBTLVR16292LR	296-9155-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	1785.00/1,000		
SN74CBTLVR16292VR	296-9156-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	3.15	2.52	1.96
SN74CBTLVR16292VR	296-9156-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	3570.00/2,000		
SN74CBTR16861DGGR	296-12336-1-ND	20-Bit FET Bus Switch	48-TSSOP	2.72	2.18	1.70
SN74CBTR16861DGGR	296-12336-2-ND	20-Bit FET Bus Switch	48-TSSOP	3086.00/2,000		
SN74CBTR16861DGVR	296-13183-1-ND	20-Bit FET Bus Switch	48-TVSOP	2.72	2.18	1.70
SN74CBTR16861DGVR	296-13183-2-ND	20-Bit FET Bus Switch	48-TVSOP	3086.00/2,000		
SN74CBTR16861DLR	296-12337-1-ND	20-Bit FET Bus Switch	48-SSOP	2.72	2.18	1.70
SN74CBTR16861DLR	296-12337-2-ND	20-Bit FET Bus Switch	48-SSOP	1543.00/1,000		
SN74CBTS3306DR	296-9157-1-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-SOIC	.92	.69	.52
SN74CBTS3306DR	296-9157-2-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-SOIC	747.50/2,500		
SN74CBTS3306PWR	296-9158-1-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-TSSOP	.92	.69	.52
SN74CBTS3306PWR	296-9158-2-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-TSSOP	612.00/2,000		
SN74CBTS3384DBQR	296-9159-1-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-QSOP	.92	.69	.52
SN74CBTS3384DBQR	296-9159-2-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-QSOP	747.50/2,500		
SN74CBTS3384DBR	296-9160-1-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-SSOP	.92	.69	.52
SN74CBTS3384DBR	296-9160-2-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-SSOP	612.00/2,000		
SN74CBTS3384DW	296-9161-5-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-SOIC	.92	.69	.52
SN74CBTS3384PWR	296-9162-1-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-TSSOP	.92	.69	.52
SN74CBTS3384PWR	296-9162-2-ND	10-Bit, FET Bus Switch with Schottky Diode Clamping	24-TSSOP	612.00/2,000		
SN74CBTS6800DBQR	296-9163-1-ND	10-Bit, FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-QSOP	1.63	1.30	.98
SN74CBTS6800DBQR	296-9163-2-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-QSOP	2080.00/2,500		
SN74CBTS6800DGVR	296-9164-1-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-TVSOP	1.63	1.30	.98
SN74CBTS6800DGVR	296-9164-2-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-TVSOP	1690.00/2,000		
SN74CBTS6800DWR	296-9165-1-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-SOIC	1.63	1.30	.98
SN74CBTS6800DWR	296-9165-2-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-SOIC	1690.00/2,000		
SN74CBTS6800PWR	296-9166-1-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-TSSOP	1.63	1.30	.98
SN74CBTS6800PWR	296-9166-2-ND	10-Bit FET Bus Switch with Precharged Out/Schottky Clamping Diode	24-TSSOP	1690.00/2,000		
SN74CBTS16211DGGR	296-1174-1-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3.38	2.70	2.10
SN74CBTS16211DGGR	296-1174-2-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3826.00/2,000		
SN74CBTS16211DL	296-1547-5-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-SSOP	3.38	2.70	2.10
SN74CBTS16212DGGR	296-1175-1-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3.38	2.70	2.10
SN74CBTS16212DGGR	296-1175-2-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3826.00/2,000		
SN74CBTS16212DL	296-1548-5-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-SSOP	3.38	2.70	2.10

74F Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74F00DR	296-1176-1-ND	Quad 2-Input NAND Gate	14-SOIC	.45	.36	.27
SN74F00DR	296-1176-2-ND	Quad 2-Input NAND Gate	14-SOIC	305.00/2,500		
SN74F02DR	296-14801-1-ND	Quad 2-Input NOR Gate	14-SOIC	.45	.36	.27
SN74F02DR	296-14801-2-ND	Quad 2-Input NOR Gate	14-SOIC	305.00/2,500		
SN74F04D	296-1177-5-ND	Hex Inverter	14-SOIC	.45	.36	.27
SN74F04DR	296-1177-1-ND	Hex Inverter	14-SOIC	.45	.36	.27
SN74F04DR	296-1177-2-ND	Hex Inverter	14-SOIC	305.00/2,500		
SN74F04N	296-3542-5-ND	Hex Inverter	14-Dip	.48	.38	.29
SN74F08D	296-1178-5-ND	Quad 2-Input AND Gate	14-SOIC	.45	.36	.27
SN74F08DR	296-1178-1-ND	Quad 2-Input AND Gate	14-SOIC	.45	.36	.27
SN74F08DR	296-1178-2-ND	Quad 2-Input AND Gate	14-SOIC	305.00/2,500		
SN74F08N	296-3543-5-ND	Quad 2-Input AND Gate	14-Dip	.48	.38	.29
SN74F10DR	296-14802-1-ND	Triple 3-Input NAND Gate	14-SOIC	.45	.36	.27
SN74F10DR	296-14802-2-ND	Triple 3-Input NAND Gate	14-SOIC	305.00/2,500		
SN74F10N	296-3546-5-ND	Triple 3-Input NAND Gate	14-Dip	.48	.38	.29
SN74F11DR	296-14803-1-ND	Triple 3-Input AND Gate	14-SOIC	.45	.36	.27
SN74F11DR	296-14803-2-ND	Triple 3-Input AND Gate	14-SOIC	305.00/2,500		
SN74F27DR	296-3576-1-ND	Triple 3-Input NOR Gate	14-SOIC	.45	.36	.27
SN74F27DR	296-3576-2-ND	Triple 3-Input NOR Gate	14-SOIC	305.00/2,500		
SN74F27N	296-3577-5-ND	Triple 3-Input NOR Gate	14-Dip	.55	.44	.33
SN74F30DR	296-3581-1-ND	8-Input NAND Gate	14-SOIC	.45	.36	.27
SN74F30DR	296-3581-2-ND	8-Input NAND Gate	14-SOIC	305.00/2,500		
SN74F32DR	296-1182-1-ND	Quad 2-Input OR Gate	14-SOIC	.45	.36	.27
SN74F32DR	296-1182-2-ND	Quad 2-Input OR Gate	14-SOIC	305.00/2,500		
SN74F32N	296-3583-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.48	.38	.29
SN74F38DR	296-14312-1-ND	Quad 2-Input NAND Buffer	14-SOIC	.45	.36	.27
SN74F38DR	296-14312-2-ND	Quad 2-Input NAND Buffer	14-SOIC	305.00/2,500		
SN74F38N	296-3590-5-ND	Quad 2-Input NAND Buffer	14-Dip	.48	.38	.29
SN74F74D	296-1183-5-ND	Dual D-Type Flip-Flop	14-SOIC	.45	.36	.27
SN74F74DR	296-1183-1-ND	Dual D-Type Flip-Flop	14-SOIC	.50	.41	.28
SN74F74DR	296-1183-2-ND	Dual D-Type Flip-Flop	14-SOIC	327.50/2,500		
SN74F74N	296-1558-5-ND	Dual D-Type Flip-Flop	14-Dip	.48	.38	.29
SN74F86DR	296-14825-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.55	.44	.33
SN74F86DR	296-14825-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	372.50/2,500		
SN74F86N	296-3602-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.55	.44	.33

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74F86NSR	296-13188-1-ND	Quad 2-Input Exclusive OR Gate	14-SOP	.55	.44	.33
SN74F86NSR	296-13188-2-ND	Quad 2-Input Exclusive OR Gate	14-SOP	308.00/2,000		
SN74F125D	296-1179-5-ND	Tri-State Quad Bus Buffer	14-SOIC	.55	.44	.33
SN74F125DR	296-1179-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.55	.44	.33
SN74F125DR	296-1179-2-ND	Tri-State Quad Bus Buffer	14-SOIC	372.50/2,500		
SN74F126DR	296-14804-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74F126DR	296-14804-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	372.50/2,500		
SN74F138D	296-3551-5-ND	3-8 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74F138DR	296-14805-1-ND	3-8 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74F138DR	296-14805-2-ND	3-8 Line Decoder/Demux	16-SOIC	372.50/2,500		
SN74F138N	296-3552-5-ND	3-8 Line Decoder/Demux	16-Dip	.55	.44	.33
SN74F151BDR	296-14806-1-ND	1-8 Data Selector/Multiplexer	16-SOIC	.56	.42	.32
SN74F151BDR	296-14806-2-ND	1-8 Data Selector/Multiplexer	16-SOIC	455.00/2,500		
SN74F153DR	296-14807-1-ND	Dual 1-4 Data Selector/Mux	16-SOIC	.55	.44	.33
SN74F153DR	296-14807-2-ND	Dual 1-4 Data Selector/Mux	16-SOIC	372.50/2,500		
SN74F153NSR	296-13184-1-ND	Dual 1-4 Data Selector/Mux	16-SOP	.55	.44	.33
SN74F153NSR	296-13184-2-ND	Dual 1-4 Data Selector/Mux	16-SOP	308.00/2,000		
SN74F157ADR	296-14808-1-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.55	.44	.33
SN74F157ADR	296-14808-2-ND	Quad 2-1 Data Selector/Mux	16-SOIC	372.50/2,500		
SN74F157AN	296-1552-5-ND	Quad 2-1 Data Selector/Mux	16-Dip	.55	.44	.33
SN74F161AD	296-3557-5-ND	Sync. 4-Bit Binary Counter	16-SOIC	.56	.42	.32
SN74F161ADR	296-14809-1-ND	Sync. 4-Bit Binary Counter	16-SOIC	.56	.42	.32
SN74F161ADR	296-14809-2-ND	Sync. 4-Bit Binary Counter	16-SOIC	455.00/2,500		
SN74F161ANSR	296-13185-1-ND	Sync. 4-Bit Binary Counter	16-SOP	.56	.42	.32
SN74F161ANSR	296-13185-2-ND	Sync. 4-Bit Binary Counter	16-SOP	372.00/2,000		
SN74F163AN	296-14810-5-ND	Sync. 4-Bit Binary Counter	16-Dip	.56	.42	.32
SN74F174ADR	296-14811-1-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.52	.39	.30
SN74F174ADR	296-14811-2-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	422.50/2,500		
SN74F175DR	296-14812-1-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.52	.39	.30
SN74F175DR	296-14812-2-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	422.50/2,500		
SN74F240DWR	296-14813-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.72	.54	.41
SN74F240DWR	296-14813-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	478.00/2,000		
SN74F240N	296-3568-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.72	.54	.41
SN74F244DBR	296-3570-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.64	.48	.36
SN74F244DBR	296-3570-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	426.00/2,000		
SN74F244DWR	296-1180-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.64	.48	.36
SN74F244DWR	296-1180-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	426.00/2,000		
SN74F244N	296-1553-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.68	.51	.39
SN74F245DBR	296-3571-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.64	.48	.36
SN74F245DBR	296-3571-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	426.00/2,000		
SN74F245DW	296-1181-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.64	.48	.36
SN74F245DWR	296-1181-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.64	.48	.36
SN74F245DWR	296-1181-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	426.00/2,000		
SN74F245N	296-3572-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.72	.54	.41
SN74F251BDR	296-14814-1-ND	Tri-State 1-8 Data Selector/Mux	16-SOIC	.62	.47	.35
SN74F251BDR	296-14814-2-ND	Tri-State 1-8 Data Selector/Mux	16-SOIC	505.00/2,500		
SN74F257D	296-1555-5-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.62	.47	.35
SN74F257DR	296-1555-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.62	.47	.35
SN74F257DR	296-1555-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	505.00/2,500		
SN74F260DR	296-14815-1-ND	Dual 5-Input NOR Gate	14-SOIC	.62	.47	.35
SN74F260DR	296-14815-2-ND	Dual 5-Input NOR Gate	14-SOIC	505.00/2,500		
SN74F280BDR	296-14816-1-ND	9-Bit Parity Generator/Checker	14-SOIC	.62	.47	.35
SN74F280BDR	296-14816-2-ND	9-Bit Parity Generator/Checker	14-SOIC	505.00/2,500		
SN74F280BN	296-3579-5-ND	9-Bit Parity Generator/Checker	14-Dip	.68	.51	.39
SN74F283N	296-3580-5-ND	4-Bit Binary Full Adders	16-Dip	.72	.54	.41
SN74F373DWR	296-14817-1-ND	Tri-State Octal Transparent D-Type Latch	20-SOIC	.64	.48	.36
SN74F373DWR	296-14817-2-ND	Tri-State Octal Transparent D-Type Latch	20-SOIC	426.00/2,000		
SN74F373N	296-3586-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.68	.51	.39
SN74F374DBR	296-3587-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SSOP	.64	.48	.36
SN74F374DBR	296-3587-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SSOP	426.00/2,000		
SN74F374DWR	296-14818-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	.64	.48	.36
SN74F374DWR	296-14818-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	426.00/2,000		
SN74F374N	296-3588-5-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-Dip	.68	.51	.39
SN74F374NSR	296-13186-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOP	.64	.48	.36
SN74F374NSR	296-13186-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOP	426.00/2,000		
SN74F521DWR	296-14819-1-ND	8-Bit Identity Comparator	20-SOIC	.72	.54	.41
SN74F521DWR	296-14819-2-ND	8-Bit Identity Comparator	20-SOIC	478.00/2,000		
SN74F541DWR	296-14820-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74F541DWR	296-14820-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	532.00/2,000		
SN74F541NSR	296-13187-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.80	.60	.45
SN74F541NSR	296-13187-2-ND	Tri-State Octal Buffer/Driver	20-SOP	532.00/2,000		
SN74F543DWR	296-14821-1-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.05	.88	.70
SN74F543DWR	296-14821-2-ND	Tri-State Octal Registered Transceiver	24-SOIC	932.00/2,000		
SN74F573DWR	296-14822-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.64	.48	.36
SN74F573DWR	296-14822-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	426.00/2,000		
SN74F573N	296-3599-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.68	.51	.39
SN74F574DWR	296-14823-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	.64	.48	.36
SN74F574DWR	296-14823-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	426.00/2,000		
SN74F574N	296-14824-5-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-Dip	.72	.54	.41
SN74F1016DWR	296-3544-1-ND	16-Bit Schottky Barrier Diode RC Bus Termination Array	20-SOIC	3.60	2.88	2.24
SN74F1016DWR	296-3544-2-ND	16-Bit Schottky Barrier Diode RC Bus Termination Array	20-SOIC	4080.00/2,000		
		FCT Family				
74FCT162H501CTPACT	296-23195-1-ND	18-Bit Registered Transceiver ***NEW!***	56-TSSOP	4.32	3.46	2.69
74FCT162H501CTPACT	296-23195-2-ND	18-Bit Registered Transceiver ***NEW!***	56-TSSOP	4896.00/2,000		
74FCT162240ATPACT	296-23187-1-ND	16-Bit Buffer/Line Driver ***NEW!***	48-TSSOP	1.29	1.08	.86
74FCT162240ATPACT	296-23187-2-ND	16-Bit Buffer/Line Driver ***NEW!***	48-TSSOP	1144.00/2,000		
74FCT162244ATPVCT	296-14458-1-ND	16-Bit Buffer/Line Driver	48-SSOP	1.20	1.00	.80
74FCT162244ATPVCT	296-14458-2-ND	16-Bit Buffer/Line Driver	48-SSOP	532.00/1,000		
74FCT162244CTPACT	296-14296-1-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.20	1.00	.80
74FCT162244CTPACT	296-14296-2-ND	16-Bit Buffer/Line Driver	48-TSSOP	1064.00/2,000		
74FCT162245ATPACT	296-23188-1-ND	16-Bit Transceiver ***NEW!***	48-TSSOP	1.20	1.00	.80
74FCT162245ATPACT	296-23188-2-ND	16-Bit Transceiver ***NEW!***	48-TSSOP	1064.00/2,000		
74FCT162373ATPACT	296-14459-1-ND	16-Bit D-Type Latch	48-TSSOP	1.20	1.00	.80
74FCT162373ATPACT	296-14459-2-ND	16-Bit D-Type Latch	48-TSSOP	1064.00/2,000		
74FCT162374ATPACT	296-23189-1-ND	16-Bit Register ***NEW!***	48-TSSOP	1.20	1.00	.80
74FCT162374ATPACT	296-23189-2-ND	16-Bit Register ***NEW!***	48-TSSOP	1064.00/2,000		
74FCT162374CTPACT	296-23190-1-ND	16-Bit Register ***NEW!***	48-TSSOP	1.20	1.00	.80
74FCT162374CTPACT	296-23190-2-ND	16-Bit Register ***NEW!***	48-TSSOP	1064.00/2,000		
74FCT162501ATPVCT	296-14460-1-ND	18-Bit Registered Transceiver	56-SSOP	1.20	1.00	.80
74FCT162501ATPVCT	296-14460-2-ND	18-Bit Registered Transceiver	56-SSOP	532.00/1,000		
74FCT162501CTPVCT	296-12620-5-ND	18-Bit Registered Transceiver	56-SSOP	1.20	1.00	.80
74FCT162543ATPACT	296-23191-1-ND	16-Bit Latched Transceiver ***NEW!***	56-TSSOP	2.97	2.38	1.85
74FCT162543ATPACT	296-23191-2-ND	16-Bit Latched Transceiver ***NEW!***	56-TSSOP	3366.00/2,000		
74FCT162652ATPVCT	296-23192-1-ND	16-Bit Registered Transceiver ***NEW!***	56-SSOP	2.97	2.38	1.85
74FCT162652ATPVCT	296-23192-2-ND	16-Bit Registered Transceiver ***NEW!***	56-SSOP	1683.00/1,000		
74FCT162652CTPACT	296-23193-1-ND	16-Bit Registered Transceiver ***NEW!***	56-TSSOP	2.97	2.38	1.85
74FCT162652CTPACT	296-23193-2-ND	16-Bit Registered Transceiver ***NEW!***	56-TSSOP	3366.00/2,000		
74FCT162823CTPVCT	296-17320-1-ND	18-Bit Bus Interface Register	56-SSOP	1.20	1.00	.80
74FCT162823CTPVCT	296-17320-2-ND	18-Bit Bus Interface Register	56-SSOP	532.00/1,000		
74FCT162827ATPACT	296-23194-1-ND	20-Bit Buffer/Line Driver ***NEW!***	56-TSSOP	1.20	1.00	.80
74FCT162827ATPACT	296-23194-2-ND	20-Bit Buffer/Line Driver ***NEW!***	56-TSSOP	1064.00/2,000		
CD74FCT244M	296-9413-5-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.78	.65	.52
CD74FCT244SM96	296-23205-1-ND	Tri-State BiCMOS Octal Buffer/Line Driver ***NEW!***	20-SSOP	.99	.83	.66
CD74FCT244SM96	296-23205-2-ND	Tri-State BiCMOS Octal Buffer/Line Driver ***NEW!***	20-SSOP	878.00/2,000		
CD74FCT245E	296-9414-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.99	.83	.66
CD74FCT245M	296-9415-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.96	.72	.54
CD74FCT374M	296-9416-5-ND	Tri-State D-Type Flip-Flop	20-SOIC	.78	.65	.52
CD74FCT623M	296-9419-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	4.70	3.77	2.93
CD74FCT843AM	296-9420-5-ND	Tri-State D-Type Latch	20-SOIC	4.95	3.96	3.08
CY29FCT52CTQCT	296-18408-1-ND	8-Bit Registered Transceiver	24-SSOP	3.15	2.52	1.96
CY29FCT52CTQCT	296-18408-2-ND	8-Bit Registered Transceiver	24-SSOP	4410.00/2,500		
CY29FCT520ATSOCT	296-14562-1-ND	Tri-State Multilevel Pipeline Register	24-SOIC	3.15	2.52	1.96
CY29FCT520ATSOCT	296-14562-2-ND	Tri-State Multilevel Pipeline Register	24-SOIC	5738.00/2,000		
CY74FCT138ATQCT	296-14563-1-ND	1-of-8 Decoder	16-SSOP	.99	.83	.66
CY74FCT138ATQCT	296-14563-2-ND	1-of-8 Decoder	16-SSOP	1072.50/2,500		
CY74FCT138TQCT	296-23211-1-ND	1-of-8 Decoder ***NEW!***	16-QSOP	.99	.83	.66
CY74FCT138TQCT	296-23211-2-ND	1-of-8 Decoder ***NEW!***	16-QSOP	1072.50/2,500		
CY74FCT157CTQCT	296-12272-5-ND	Tri-State Quad 2-Input Multiplexer	16-SSOP	.99	.83	.66
CY74FCT157CTSOC	296-9438-5-ND	Quad 2-Input Multiplexer	16-SOIC	.99	.83	.66
CY74FCT163CTQCT	296-14565-1-ND	4-Bit Binary Counter	16-SSOP	1.52	1.14	.86
CY74FCT163CTQCT	296-14565-2-ND	4-Bit Binary Counter	16-SSOP	1235.00/2,500		
CY74FCT240ATQCT	296-14569-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT240ATQCT	296-14569-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT240TQCT	296-14570-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT240TQCT	296-14570-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT244ATQCT	296-13854-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT244ATQCT	296-13854-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT244ATSOCT	296-14571-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	.72	.54	.41
CY74FCT244ATSOCT	296-14571-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	478.00/2,000		
CY74FCT244CTQCT	296-14006-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT244CTQCT	296-14006-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT244TQCT	296-14572-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT244TQCT	296-14572-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT244TSOCT	296-14573-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	.72	.54	.41
CY74FCT244TSOCT	296-14573-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	478.00/2,000		
CY74FCT245ATPC	296-14574-5-ND	Tri-State 8-Bit Transceiver	20-Dip	.72	.54	.41
CY74FCT245ATSOCT	296-23213-1-ND	Tri-State 8-Bit Transceiver ***NEW!***	20-SOIC	.72	.54	.41
CY74FCT245ATSOCT	296-23213-2-ND	Tri-State 8-Bit Transceiver ***NEW!***	20-SOIC	478.00/2,000		
CY74FCT245ATQCT	296-14575-1-ND	Tri-State 8-Bit Transceiver	20-SSOP	.72	.54	.41
CY74FCT245ATQCT	296-14575-2-ND	Tri-State 8-Bit Transceiver	20-SSOP	585.00/2,500		
CY74FCT245CTQCT	296-23214-1-ND	Tri-State 8-Bit Transceiver ***NEW!***	20-QSOP	.72	.54	.41
CY74FCT245CTQCT	296-23214-2-ND	Tri-State 8-Bit Transceiver ***NEW!***	20-QSOP	585.00/2,500		
CY74FCT245TQCT	296-9441-1-ND	Tri-State 8-Bit Transceiver	20-SSOP	.72	.54	.41
CY74FCT245TQCT	296-9441-2-ND	Tri-State 8-Bit Transceiver	20-SSOP	585.00/2,500		
CY74FCT257ATQCT	296-13620-1-ND	Tri-State Quad 2-Input Multiplexer	16-QSOP	.72	.54	.41
CY74FCT257ATQCT	296-13620-2-ND	Tri-State Quad 2-Input Multiplexer	16-QSOP	585.00/2,500		
CY74FCT373ATQCT	296-14576-1-ND	Tri-State 8-Bit Latch	20-SSOP	.72	.54	.41
CY74FCT373ATQCT	296-14576-2-ND	Tri-State 8-Bit Latch	20-SSOP	585.00/2,500		
CY74FCT374ATQCT	296-14577-1-ND	Tri-State 8-Bit Register	20-QSOP	.72	.54	.41
CY74FCT374ATQCT	296-14577-2-ND	Tri-State 8-Bit Register	20-QSOP	585.00/2,500		
CY74FCT374TQCT	296-9442-1-ND	Tri-State 8-Bit Register	20-QSOP	.72	.54	.41
CY74FCT374TQCT	296-9442-2-ND	Tri-State 8-Bit Register	20-QSOP	585.00/2,500		
CY74FCT399CTSOCT	296-13007-1-ND	Quad 2-Input Register	16-SOIC	1.20	.90	.68
CY74FCT399CTSOCT	296-13007-2-ND	Quad 2-Input Register	16-SOIC	798.00/2,000		
CY74FCT540CTQCT	296-13855-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT540CTQCT	296-13855-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT541ATPC	296-14578-5-ND	Tri-State 8-Bit Buffer/Line Driver	20-Dip	.72	.54	.41
CY74FCT541ATQCT	296-13699-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT541ATQCT	296-13699-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT541CTQCT	296-12629-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT541CTQCT	296-12629-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT541CTSOCT	296-12274-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	.72	.54	.41
CY74FCT541CTSOCT	296-12274-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	478.00/2,000		
CY74FCT541TQCT	296-18409-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT541TQCT	296-18409-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT543ATQCT	296-14579-1-ND	Tri-State 8-Bit Latched Transceiver	24-SSOP	.72	.54	.41
CY74FCT543ATQCT	296-14579-2-ND	Tri-State 8-Bit Latched Transceiver	24-SSOP	585.00/2,500		
CY74FCT573ATSOCT	296-23216-1-ND	Tri-State 8-Bit Latch ***NEW!***	20-SOIC	.72	.54	.41
CY74FCT573ATSOCT	296-23216-2-ND	Tri-State 8-Bit Latch ***NEW!***	20-SOIC	478.00/2,000		
CY74FCT574ATQCT	296-14580-1-ND	Tri-State 8-Bit Register	20-SSOP	.72	.54	.41
CY74FCT574ATQCT	296-14580-2-ND	Tri-State 8-Bit Register	20-SSOP	585.00/2,500		
CY74FCT574TQCT	296-14581-1-ND	Tri-State 8-Bit Register	20-SSOP	.72	.54	.41
CY74FCT574TQCT	296-14581-2-ND	Tri-State 8-Bit Register	20-SSOP	585.00/2,500		
CY74FCT646ATQCT	296-14582-1-ND	Tri-State 8-Bit Registered Transceiver.	24-SSOP	1.20	.90	.68
CY74FCT646ATQCT	296-14582-2-ND	Tri-State 8-Bit Registered Transceiver.	24-SSOP	975.00/2,500		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CY74FCT646ATSOCT	296-23217-1-ND	Tri-State 8-Bit Registered Transceiver ***NEW!***	24-SOIC	.72	.54	.41
CY74FCT646ATSOCT	296-23217-2-ND	Tri-State 8-Bit Registered Transceiver ***NEW!***	24-SOIC	478.00/2,000		
CY74FCT821ATQCT	296-14583-1-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SSOP	.72	.54	.41
CY74FCT821ATQCT	296-14583-2-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SSOP	585.00/2,500		
CY74FCT821BTPC	296-14584-5-ND	Tri-State 10-Bit Bus Interface Register	24-Dip	1.05	.88	.70
CY74FCT821CTQCT	296-14585-1-ND	Tri-State 10-Bit Bus Interface Register	24-SSOP	.72	.54	.41
CY74FCT821CTQCT	296-14585-2-ND	Tri-State 10-Bit Bus Interface Register	24-SSOP	585.00/2,500		
CY74FCT827ATSOC	296-9443-5-ND	Tri-State 10-Bit Buffer	24-SOP	.72	.54	.41
CY74FCT827CTQCT	296-15180-1-ND	Tri-State 10-Bit Buffer	24-SSOP	.72	.54	.41
CY74FCT827CTQCT	296-15180-2-ND	Tri-State 10-Bit Buffer	24-SSOP	585.00/2,500		
CY74FCT827CTSOCT	296-12845-1-ND	Tri-State 10-Bit Buffer	24-SOIC	.72	.54	.41
CY74FCT827CTSOCT	296-12845-2-ND	Tri-State 10-Bit Buffer	24-SOIC	478.00/2,000		
CY74FCT2244ATQCT	296-14566-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT2244ATQCT	296-14566-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT2244CTQCT	296-14567-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT2244CTQCT	296-14567-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT2245ATQCT	296-12974-1-ND	Tri-State Octal Bus Transceiver	20-QSOP	.72	.54	.41
CY74FCT2245ATQCT	296-12974-2-ND	Tri-State Octal Bus Transceiver	20-QSOP	585.00/2,500		
CY74FCT2245TSOCT	296-14568-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.72	.54	.41
CY74FCT2245TSOCT	296-14568-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	478.00/2,000		
CY74FCT2245TSOC	296-9439-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.72	.54	.41
CY74FCT2257ATQCT	296-14005-1-ND	Tri-State Quad 2-Input Mux	16-QSOP	1.68	1.34	1.01
CY74FCT2257ATQCT	296-14005-2-ND	Tri-State Quad 2-Input Mux	16-QSOP	2145.00/2,500		
CY74FCT2373CTSOC	296-12975-5-ND	Tri-State Octal Transparent Latch	20-SOIC	.72	.54	.41
CY74FCT2541ATQCT	296-14007-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT2541ATQCT	296-14007-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT2573ATQCT	296-23215-1-ND	Tri-State 8-Bit Latch ***NEW!***	20-QSOP	.90	.75	.60
CY74FCT2573ATQCT	296-23215-2-ND	Tri-State 8-Bit Latch ***NEW!***	20-QSOP	975.00/2,500		
CY74FCT2574ATQCT	296-13635-1-ND	Tri-State High Speed, Low Power, Octal D-Type Flip-Flop	20-QSOP	.72	.54	.41
CY74FCT2574ATQCT	296-13635-2-ND	Tri-State High Speed, Low Power, Octal D-Type Flip-Flop	20-QSOP	585.00/2,500		
CY74FCT2652ATQCT	296-13698-1-ND	Tri-State 8-Bit Registered Transceiver	24-QSOP	2.00	1.60	1.20
CY74FCT2652ATQCT	296-13698-2-ND	Tri-State 8-Bit Registered Transceiver	24-QSOP	3135.00/2,500		
CY74FCT2827ATQCT	296-14166-1-ND	Tri-State 10-Bit Buffer	24-SSOP	2.00	1.60	1.20
CY74FCT2827ATQCT	296-14166-2-ND	Tri-State 10-Bit Buffer	24-SSOP	2560.00/2,500		
CY74FCT16244ATPACT	296-14306-1-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.35	1.13	.90
CY74FCT16244ATPACT	296-14306-2-ND	16-Bit Buffer/Line Driver	48-TSSOP	1198.00/2,000		
CY74FCT16244CTPACT	296-23212-1-ND	16-Bit Buffer/Line Driver ***NEW!***	48-TSSOP	1.35	1.13	.90
CY74FCT16244CTPACT	296-23212-2-ND	16-Bit Buffer/Line Driver ***NEW!***	48-TSSOP	1198.00/2,000		
CY74FCT16245ATPACT	296-16761-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.35	1.13	.90
CY74FCT16245ATPACT	296-16761-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1198.00/2,000		
CY74FCT16373CTPACT	296-13619-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	1.35	1.13	.90
CY74FCT16373CTPACT	296-13619-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	1197.00/2,000		
CY74FCT16373CTPVC	296-12687-5-ND	Tri-State 16-Bit Transparent D-Type Latch Flip-Flop	48-SSOP	1.35	1.13	.90
CY74FCT16374CTPACT	296-12688-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.35	1.13	.90
CY74FCT16374CTPACT	296-12688-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1198.00/2,000		
CY74FCT16374TPVC	296-12273-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.35	1.13	.90
CY74FCT16543ATPACT	296-12973-1-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	1.38	1.10	.83
CY74FCT16543ATPACT	296-12973-2-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	1430.00/2,000		
CY74FCT16827CTPACT	296-15309-1-ND	20-Bit Buffer/Line Driver	56-TSSOP	1.38	1.10	.83
CY74FCT16827CTPACT	296-15309-2-ND	20-Bit Buffer/Line Driver	56-TSSOP	2366.00/2,000		
CY74FCT162244TPVCT	296-14564-1-ND	16-Bit Buffer/Line Driver	48-SSOP	1.35	1.13	.90
CY74FCT162244TPVCT	296-14564-2-ND	16-Bit Buffer/Line Driver	48-SSOP	599.00/1,000		
CY74FCT162245CTPVC	296-12551-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.35	1.13	.90

Future Bus Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74FB2031RC	296-1560-5-ND	9-Bit Address/Data Transceiver	52-QFP	8.91	8.03	7.12
SN74FB2033ARC	296-1561-5-ND	8-Bit Transceiver	52-QFP	9.16	8.25	7.32
SN74FB2033KRC	296-3605-ND	8-Bit TTL/BTL Registered Transceiver	52-QFP	10.33	9.30	8.25
SN74FB2040RC	296-3606-ND	8-Bit TTL/BTL Transceiver	52-QFP	9.58	8.63	7.65
SN74FB2041ARC	296-3607-ND	7-Bit TTL/BTL Transceiver	52-QFP	9.58	8.63	7.65

GTL Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTL1655DGGR	296-1184-1-ND	16-Bit Universal Bus Transceiver	64-TSSOP	10.16	9.15	8.12
SN74GTL1655DGGR	296-1184-2-ND	16-Bit Universal Bus Transceiver	64-TSSOP	15068.00/2,000		
SN74GTL2006PWR	296-17670-1-ND	13-Bit GTL-LVTTL Translator	28-TSSOP	1.88	1.50	1.13
SN74GTL2006PWR	296-17670-2-ND	13-Bit GTL-LVTTL Translator	28-TSSOP	1950.00/2,000		
SN74GTL2007PWR	296-17963-1-ND	12-Bit GTL-/GTL/GTL+ to LVTTL Translator	28-TSSOP	1.88	1.50	1.13
SN74GTL2007PWR	296-17963-2-ND	12-Bit GTL-/GTL/GTL+ to LVTTL Translator	28-TSSOP	1950.00/2,000		
SN74GTL2010PWR	296-21026-1-ND	10-Bit Voltage Clamp	24-TSSOP	1.63	1.30	.98
SN74GTL2010PWR	296-21026-2-ND	10-Bit Voltage Clamp	24-TSSOP	1690.00/2,000		
SN74GTL2107PWR	296-21322-1-ND	12-Bit GTL-/GTL/GTL+ to LVTTL Translator	28-TSSOP	1.88	1.50	1.13
SN74GTL2107PWR	296-21322-2-ND	12-Bit GTL-/GTL/GTL+ to LVTTL Translator	28-TSSOP	1950.00/2,000		
SN74GTL16612DGGR	296-9808-1-ND	18-Bit Universal Bus Transceiver	56-TSSOP	6.60	5.28	4.46
SN74GTL16612DGGR	296-9808-2-ND	18-Bit Universal Bus Transceiver	56-TSSOP	8250.00/2,000		
SN74GTL16612DL	296-9809-5-ND	18-Bit Universal Bus Transceiver	56-SSOP	6.60	5.28	4.46
SN74GTL16616DGGR	296-1185-1-ND	17-Bit Universal Bus Transceiver	56-TSSOP	9.00	7.20	6.08
SN74GTL16616DGGR	296-1185-2-ND	17-Bit Universal Bus Transceiver	56-TSSOP	14080.00/2,000		
SN74GTL16616DLR	296-9810-1-ND	17-Bit Universal Bus Transceiver	56-SSOP	9.00	7.20	6.08
SN74GTL16616DLR	296-9810-2-ND	17-Bit Universal Bus Transceiver	56-SSOP	7040.00/1,000		
SN74GTL16622ADGGR	296-1186-1-ND	18-Bit Bus Transceiver	64-TSSOP	9.08	8.18	7.25
SN74GTL16622ADGGR	296-1186-2-ND	18-Bit Bus Transceiver	64-TSSOP	13462.00/2,000		
SN74GTL16923DGGR	296-9811-1-ND	18-Bit Universal Bus Transceiver	64-TSSOP	8.91	8.03	7.12
SN74GTL16923DGGR	296-9811-2-ND	18-Bit Universal Bus Transceiver	64-TSSOP	13214.00/2,000		

GTLP Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTLP817DGVR	296-13205-1-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TVSOP	3.94	3.15	2.45
SN74GTLP817DGVR	296-13205-2-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TVSOP	4462.00/2,000		
SN74GTLP817DWR	296-12338-1-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-SOIC	3.94	3.15	2.45
SN74GTLP817DWR	296-12338-2-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-SOIC	4462.00/2,000		
SN74GTLP817PWR	296-12339-1-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TSSOP	3.94	3.15	2.45
SN74GTLP817PWR	296-12339-2-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TSSOP	4462.00/2,000		
SN74GTLP1394DGVR	296-9812-1-ND	2-Bit Bus Transceiver	16-TVSOP	2.59	2.07	1.61
SN74GTLP1394DGVR	296-9812-2-ND	2-Bit Bus Transceiver	16-TVSOP	2932.00/2,000		
SN74GTLP1394DR	296-9813-1-ND	2-Bit Bus Transceiver	16-SOIC	2.59	2.07	1.61
SN74GTLP1394DR	296-9813-2-ND	2-Bit Bus Transceiver	16-SOIC	3622.50/2,500		
SN74GTLP1394PWR	296-9814-1-ND	2-Bit Bus Transceiver	16-TSSOP	2.59	2.07	1.61
SN74GTLP1394PWR	296-9814-2-ND	2-Bit Bus Transceiver	16-TSSOP	2932.00/2,000		
SN74GTLP1395DGVR	296-12465-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TVSOP	2.81	2.25	1.75
SN74GTLP1395DGVR	296-12465-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TVSOP	3188.00/2,000		
SN74GTLP1395DWR	296-12466-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-SOIC	2.81	2.25	1.75
SN74GTLP1395DWR	296-12466-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-SOIC	3188.00/2,000		
SN74GTLP1395GQNR	296-13189-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-VFBGA	3.15	2.52	1.96
SN74GTLP1395GQNR	296-13189-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-VFBGA	1785.00/1,000		
SN74GRLP1395PWR	296-12467-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TSSOP	2.81	2.25	1.75
SN74GRLP1395PWR	296-12467-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TSSOP	3188.00/2,000		
SN74GTLP2033DGGR	296-12468-1-ND	8-Bit LVTTL-to-GTLP Registered Transceiver	48-TSSOP	5.50	4.40	3.72
SN74GTLP2033DGGR	296-12468-2-ND	8-Bit LVTTL-to-GTLP Registered Transceiver	48-TSSOP	6876.00/2,000		
SN74GTLP2033DGVR	296-12469-1-ND	8-Bit LVTTL-to-GTLP Registered Transceiver	48-TVSOP	5.50	4.40	3.72
SN74GTLP2033DGVR	296-12469-2-ND	8-Bit LVTTL-to-GTLP Registered Transceiver	48-TVSOP	6876.00/2,000		
SN74GTLP2033GQLR	296-13190-1-ND	8-Bit LVTTL-to-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port/Inverter	56-VFBGA	5.80	4.64	3.92
SN74GTLP2033GQLR	296-13190-2-ND	8-Bit LVTTL-to-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port/Inverter	56-VFBGA	3625.00/1,000		
SN74GTLP2034DGGR	296-13191-1-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Transcvr with Split LVTTL Port	48-TSSOP	5.50	4.40	3.72
SN74GTLP2034DGGR	296-13191-2-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Transcvr with Split LVTTL Port	48-TSSOP	6876.00/2,000		
SN74GTLP2034DGVR	296-13192-1-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Transcvr with Split LVTTL Port	48-TVSOP	5.50	4.40	3.72
SN74GTLP2034DGVR	296-13192-2-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Transcvr with Split LVTTL Port	48-TVSOP	6876.00/2,000		
SN74GTLP2034GQLR	296-13193-1-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Transceiver with Split LVTTL Port	56-VFBGA	5.80	4.64	3.92
SN74GTLP2034GQLR	296-13193-2-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Transceiver with Split LVTTL Port	56-VFBGA	3625.00/1,000		
SN74GTLP21395DGVR	296-13194-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TVSOP	2.81	2.25	1.75
SN74GTLP21395DGVR	296-13194-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TVSOP	3188.00/2,000		
SN74GTLP21395DWR	296-13195-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-SOIC	2.81	2.25	1.75
SN74GTLP21395DWR	296-13195-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-SOIC	3188.00/2,000		
SN74GTLP21395GQNR	296-13197-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-VFBGA	3.15	2.52	1.96
SN74GTLP21395GQNR	296-13197-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-VFBGA	1785.00/1,000		
SN74GTLP21395PWR	296-13198-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TSSOP	2.81	2.25	1.75
SN74GTLP21395PWR	296-13198-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TSSOP	3188.00/2,000		
SN74GTLP22033DGGR	296-13199-1-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port and Inverter	48-TSSOP	5.50	4.40	3.72
SN74GTLP22033DGGR	296-13199-2-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port and Inverter	48-TSSOP	6876.00/2,000		
SN74GTLP22033DGVR	296-13200-1-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port	48-TVSOP	5.50	4.40	3.72
SN74GTLP22033DGVR	296-13200-2-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port	48-TVSOP	6876.00/2,000		
SN74GTLP22033GQLR	296-13201-1-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port	56-VFBGA	5.80	4.64	3.92
SN74GTLP22033GQLR	296-13201-2-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port	56-VFBGA	3625.00/1,000		
SN74GTLP22034DGGR	296-13202-1-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	48-TSSOP	5.50	4.40	3.72
SN74GTLP22034DGGR	296-13202-2-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	48-TSSOP	6876.00/2,000		
SN74GTLP22034DGVR	296-13203-1-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	48-TVSOP	5.50	4.40	3.72
SN74GTLP22034DGVR	296-13203-2-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	48-TVSOP	6876.00/2,000		
SN74GTLP22034GQLR	296-13204-1-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	56-VFBGA	5.50	4.40	3.72
SN74GTLP22034GQLR	296-13204-2-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	56-VFBGA	3438.00/1,000		

GTLPH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTLPH306DGVR	296-13212-1-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-TVSOP	4.05	3.24	2.52
SN74GTLPH306DGVR	296-13212-2-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-TVSOP	4590.00/2,000		
SN74GTLPH306DWR	296-12341-1-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-SOIC	4.05	3.24	2.52
SN74GTLPH306DWR	296-12341-2-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-SOIC	4590.00/2,000		
SN74GTLPH1612DGGR	296-13206-1-ND	18-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	8.50	6.80	5.74
SN74GTLPH1612DGGR	296-13206-2-ND	18-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	10626.00/2,000		
SN74GTLPH1616DGGR	296-11932-1-ND	17-Bit Universal Bus Transceiver	64-TSSOP	8.50	6.80	5.74
SN74GTLPH1616DGGR	296-11932-2-ND	17-Bit Universal Bus Transceiver	64-TSSOP	10626.00/2,000		
SN74GTLPH1627DGGR	296-15555-1-ND	18-Bit LVTTL-GTLP Bus Transceiver	64-TSSOP	7.50	6.00	5.07
SN74GTLPH1627DGGR	296-15555-2-ND	18-Bit LVTTL-GTLP Bus Transceiver	64-TSSOP	9376.00/2,000		
SN74GTLPH1645DGGR	296-12470-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TSSOP	3.94	3.15	2.45
SN74GTLPH1645DGGR	296-12470-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TSSOP	4462.00/2,000		
SN74GTLPH1645DGVR	296-12471-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TVSOP	3.94	3.15	2.45
SN74GTLPH1645DGVR	296-12471-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TVSOP	4462.00/2,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTLPH1645GQLR	296-12663-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-VFBGA	4.50	3.60	2.80
SN74GTLPH1645GQLR	296-12663-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-VFBGA	2550.00/1,000		
SN74GTLPH1655DGGR	296-12340-1-ND	16-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	8.50	6.80	5.74
SN74GTLPH1655DGGR	296-12340-2-ND	16-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	10626.00/2,000		
SN74GTLPH3245GKFR	296-13213-1-ND	32-Bit LVTTL-GTLP Adj.-Edge-Rate Bus Transceiver	114-LFBGA	5.30	4.24	3.58
SN74GTLPH3245GKFR	296-13213-2-ND	32-Bit LVTTL-GTLP Adj.-Edge-Rate Bus Transceiver	114-LFBGA	3313.00/1,000		
SN74GTLPH16612DLR	296-9815-1-ND	18-Bit Universal Bus Transceiver	56-SSOP	6.60	5.28	4.46
SN74GTLPH16612DLR	296-9815-2-ND	18-Bit Universal Bus Transceiver	56-SSOP	4125.00/1,000		
SN74GTLPH16612GR	296-9816-1-ND	18-Bit Universal Bus Transceiver	56-TSSOP	6.10	4.88	4.12
SN74GTLPH16612GR	296-9816-2-ND	18-Bit Universal Bus Transceiver	56-TSSOP	7626.00/2,000		
SN74GTLPH16912GR	296-13207-1-ND	18-Bit LVTTL-GTLP Universal Bus Transceiver	56-TSSOP	6.50	5.20	4.39
SN74GTLPH16912GR	296-13207-2-ND	18-Bit LVTTL-GTLP Universal Bus Transceiver	56-TSSOP	8750.00/2,000		
SN74GTLPH16912VR	296-12256-1-ND	18-Bit LVTTL-GTLP Universal Bus Transceiver	56-TVSOP	6.50	5.20	4.39
SN74GTLPH16912VR	296-12256-2-ND	18-Bit LVTTL-GTLP Universal Bus Transceiver	56-TVSOP	8750.00/2,000		
SN74GTLPH16916GR	296-13208-1-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TSSOP	6.50	5.20	4.39
SN74GTLPH16916GR	296-13208-2-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TSSOP	8750.00/2,000		
SN74GTLPH16916VR	296-13209-1-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TVSOP	6.50	5.20	4.39
SN74GTLPH16916VR	296-13209-2-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TVSOP	8750.00/2,000		
SN74GTLPH16927GR	296-15556-1-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-TSSOP	7.00	5.60	4.73
SN74GTLPH16927GR	296-15556-2-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-TSSOP	8750.00/2,000		
SN74GTLPH16927KR	296-15557-1-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-VFBGA	8.50	6.80	5.74
SN74GTLPH16927KR	296-15557-2-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-VFBGA	5313.00/1,000		
SN74GTLPH16927VR	296-15558-1-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-TVSOP	7.70	6.16	5.20
SN74GTLPH16927VR	296-15558-2-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-TVSOP	9626.00/2,000		
SN74GTLPH16945GR	296-13210-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TSSOP	4.05	3.24	2.52
SN74GTLPH16945GR	296-13210-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TSSOP	4590.00/2,000		
SN74GTLPH16945VR	296-13211-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TVSOP	4.05	3.24	2.52
SN74GTLPH16945VR	296-13211-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TVSOP	4590.00/2,000		
SN74GTLPH32912KR	296-15559-1-ND	36-Bit LVTTL-GTLP Bus Transceiver	114-LFBGA	8.33	7.50	6.65
SN74GTLPH32912KR	296-15559-2-ND	36-Bit LVTTL-GTLP Bus Transceiver	114-LFBGA	6175.00/1,000		
SN74GTLPH32916KR	296-15560-1-ND	34-Bit LVTTL-GTLP Bus Transceiver with Buffered Clock Output	114-LFBGA	8.33	7.50	6.65
SN74GTLPH32916KR	296-15560-2-ND	34-Bit LVTTL-GTLP Bus Transceiver with Buffered Clock Output	114-LFBGA	6175.00/1,000		
SN74GTLPH32945KR	296-12472-1-ND	32-Bit LVTTL-GTLP Bus Transceiver	96-LFBGA	5.06	4.05	3.15
SN74GTLPH32945KR	296-12472-2-ND	32-Bit LVTTL-GTLP Bus Transceiver	96-LFBGA	2869.00/1,000		

HC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HC00E	296-12769-5-ND	Quad 2-Input NAND Gate	14-Dip	.43	.35	.24
CD74HC00M	296-9167-5-ND	Quad 2-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HC00M96	296-14504-1-ND	Quad 2-Input NAND Gate	14-SOIC	.40	.33	.22
CD74HC00M96	296-14504-2-ND	Quad 2-Input NAND Gate	14-SOIC	260.00/2,500		
CD74HC02E	296-12770-5-ND	High Speed, Quad 2-Input NOR Gate	14-Dip	.47	.38	.26
CD74HC03M96	296-12771-1-ND	High Speed, Quad 2-Input NAND Gate with Open Drain	14-SOIC	.48	.36	.27
CD74HC03M96	296-12771-2-ND	High Speed, Quad 2-Input NAND Gate with Open Drain	14-SOIC	390.00/2,500		
CD74HC04E	296-12772-5-ND	High Speed, CMOS Logic Hex Inverter	14-Dip	.47	.38	.26
CD74HC04M	296-17318-5-ND	High Speed, CMOS Logic Hex Inverter	14-SOIC	.40	.33	.22
CD74HC04M96	296-14505-1-ND	High Speed, CMOS Logic Hex Inverter	14-SOIC	.40	.33	.22
CD74HC04M96	296-14505-2-ND	High Speed, CMOS Logic Hex Inverter	14-SOIC	260.00/2,500		
CD74HC08E	296-12773-5-ND	High Speed, Quad 2-Input AND Gate	14-Dip	.64	.48	.36
CD74HC08M	296-9169-5-ND	High Speed, Quad 2-Input AND Gate	14-SOIC	.48	.36	.27
CD74HC08M96	296-14506-1-ND	High Speed, Quad 2-Input AND Gate	14-SOIC	.40	.33	.22
CD74HC08M96	296-14506-2-ND	High Speed, Quad 2-Input AND Gate	14-SOIC	260.00/2,500		
CD74HC08QM96EP	296-22100-1-ND	HS, Quad 2-Input AND Gate ***NEW!***	14-SOIC	1.68	1.34	1.01
CD74HC08QM96EP	296-22100-2-ND	HS, Quad 2-Input AND Gate ***NEW!***	14-SOIC	2145.00/2,500		
CD74HC10E	296-12774-5-ND	Triple 3-Input NAND Gate	14-Dip	.64	.48	.36
CD74HC10M	296-12775-5-ND	Triple 3-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HC10M96	296-14507-1-ND	Triple 3-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HC10M96	296-14507-2-ND	Triple 3-Input NAND Gate	14-SOIC	390.00/2,500		
CD74HC11M	296-9170-5-ND	Triple 3-Input AND Gate	14-SOIC	.48	.36	.27
CD74HC11M96	296-12779-1-ND	Triple 3-Input AND Gate	14-SOIC	.48	.36	.27
CD74HC11M96	296-12779-2-ND	Triple 3-Input AND Gate	14-SOIC	390.00/2,500		
CD74HC14E	296-12786-5-ND	Hex Schmitt Trigger Inverter	14-Dip	.47	.38	.26
CD74HC14M	296-9179-5-ND	Hex Schmitt Trigger Inverter	14-SOIC	.40	.33	.22
CD74HC14M96	296-9179-1-ND	Hex Schmitt Trigger Inverter	14-SOIC	.40	.33	.22
CD74HC14M96	296-9179-2-ND	Hex Schmitt Trigger Inverter	14-SOIC	260.00/2,500		
CD74HC21M	296-9186-5-ND	Dual 4-Input AND Gate	14-SOIC	.48	.36	.27
CD74HC27E	296-12802-5-ND	High Speed Triple 3-Input NOR Gate	14-Dip	.64	.48	.36
CD74HC30E	296-9196-5-ND	8-Input NAND Gate	14-Dip	.53	.42	.32
CD74HC30M	296-9197-5-ND	8-Input NAND Gate	14-SOIC	.46	.37	.26
CD74HC30M96	296-14521-1-ND	8-Input NAND Gate	14-SOIC	.46	.37	.26
CD74HC30M96	296-14521-2-ND	8-Input NAND Gate	14-SOIC	297.50/2,500		
CD74HC32E	296-12803-5-ND	HS CMOS Logic Quad 2-Input OR Gate	14-Dip	.64	.48	.36
CD74HC32M	296-12804-5-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC	.48	.36	.27
CD74HC32M96	296-14522-1-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC	.48	.36	.27
CD74HC32M96	296-14522-2-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC	390.00/2,500		
CD74HC73M96	296-14540-1-ND	Dual J-K Flip-Flop with Reset	14-SOIC	.47	.38	.26
CD74HC73M96	296-14540-2-ND	Dual J-K Flip-Flop with Reset	14-SOIC	305.00/2,500		
CD74HC74E	296-12819-5-ND	Dual D-Type Flip-Flop	14-Dip	.47	.38	.26
CD74HC74M	296-12820-5-ND	Dual D-Type Flip-Flop	14-SOIC	.48	.36	.27
CD74HC74M96	296-14541-1-ND	Dual D-Type Flip-Flop	14-SOIC	.40	.33	.22
CD74HC74M96	296-14541-2-ND	Dual D-Type Flip-Flop	14-SOIC	260.00/2,500		
CD74HC75E	296-9240-5-ND	Dual 2-Bit Bistable Transparent Latch	16-Dip	.88	.66	.50
CD74HC85E	296-12821-5-ND	4-Bit, High Speed, Magnitude Comparator	16-Dip	.81	.68	.54
CD74HC85M	296-9242-5-ND	4-Bit, HS, Magnitude Comparator	16-SOIC	.81	.68	.54
CD74HC85M96	296-9242-1-ND	4-Bit, HS, Magnitude Comparator	16-SOIC	.81	.68	.54
CD74HC85M96	296-9242-2-ND	4-Bit, HS, Magnitude Comparator	16-SOIC	877.50/2,500		
CD74HC86E	296-12822-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.72	.54	.41
CD74HC93M96	296-9243-1-ND	4-Bit Binary Ripple Counter	14-SOIC	.81	.68	.54
CD74HC93M96	296-9243-2-ND	4-Bit Binary Ripple Counter	14-SOIC	877.50/2,500		
CD74HC112E	296-12776-5-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-Dip	.72	.54	.41
CD74HC112M96	296-12777-1-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-SOIC	.64	.48	.36
CD74HC112M96	296-12777-2-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-SOIC	520.00/2,500		
CD74HC112PWR	296-12778-1-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-TSSOP	.64	.48	.36
CD74HC112PWR	296-12778-2-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-TSSOP	426.00/2,000		
CD74HC123E	296-9171-5-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-Dip	.53	.40	.30
CD74HC123M	296-9172-5-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-SOIC	.44	.36	.27
CD74HC123M96	296-14508-1-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOIC	.44	.36	.27
CD74HC123M96	296-14508-2-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOIC	297.50/2,500		
CD74HC123PWR	296-12780-1-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-TSSOP	.44	.36	.27
CD74HC123PWR	296-12780-2-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-TSSOP	246.00/2,000		
CD74HC125E	296-12781-5-ND	Tri-State High Speed Quad Buffer	14-Dip	.72	.54	.41
CD74HC125M	296-9173-5-ND	Tri-State High Speed Quad Buffer	14-SOIC	.64	.48	.36
CD74HC125M96	296-14509-1-ND	Tri-State High Speed Quad Buffer	14-SOIC	.64	.48	.36
CD74HC125M96	296-14509-2-ND	Tri-State High Speed Quad Buffer	14-SOIC	520.00/2,500		
CD74HC126E	296-12782-5-ND	Tri-State High Speed Quad Buffer	14-Dip	.72	.54	.41
CD74HC126M	296-12783-5-ND	Tri-State High Speed Quad Buffer	14-SOIC	.64	.48	.36
CD74HC126M96	296-14510-1-ND	Tri-State High Speed Quad Buffer	14-SOIC	.64	.48	.36
CD74HC126M96	296-14510-2-ND	Tri-State High Speed Quad Buffer	14-SOIC	520.00/2,500		
CD74HC132E	296-12784-5-ND	Quad 2-Input Schmitt-Trig. NAND Gate	14-Dip	.72	.54	.41
CD74HC132M	296-9175-5-ND	Quad 2-Input Schmitt-Trig. NAND Gate	14-SOIC	.64	.48	.36
CD74HC132M96	296-9175-1-ND	Quad 2-Input Schmitt-Trig. NAND Gate	14-SOIC	.64	.48	.36
CD74HC132M96	296-9175-2-ND	Quad 2-Input Schmitt-Trig. NAND Gate	14-SOIC	520.00/2,500		
CD74HC137E	296-9176-5-ND	3-8 Line Decoder/Demultiplexer, with Address Latch	16-Dip	.53	.40	.30
CD74HC138E	296-12785-5-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-Dip	.44	.36	.27
CD74HC138M	296-9177-5-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	.64	.48	.36
CD74HC138M96	296-14511-1-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	.64	.48	.36
CD74HC138M96	296-14511-2-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	520.00/2,500		
CD74HC139M96	296-14512-1-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.64	.48	.36
CD74HC139M96	296-14512-2-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	520.00/2,500		
CD74HC147E	296-14513-5-ND	10-4 Line Priority Encoder	16-Dip	.53	.40	.30
CD74HC151M96	296-12787-1-ND	HS CMOS Logic 8-Input Mux	16-SOIC	.44	.36	.27
CD74HC151M96	296-12787-2-ND	HS CMOS Logic 8-Input Mux	16-SOIC	297.50/2,500		
CD74HC154EN	296-9181-5-ND	4-16 Line Decoder/Demultiplexer	24-Dip	.90	.75	.60
CD74HC154M	296-9182-5-ND	4-16 Line Decoder/Demultiplexer	24-SOIC	.60	.45	.34
CD74HC161M96	296-23206-1-ND	High Speed CMOS Logic Presettable Counter ***NEW!***	16-SOIC	.64	.48	.36
CD74HC161M96	296-23206-2-ND	High Speed CMOS Logic Presettable Counter ***NEW!***	16-SOIC	520.00/2,500		
CD74HC164E	296-12788-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.72	.54	.41
CD74HC164M	296-12789-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.64	.48	.36
CD74HC164M96	296-14514-1-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.64	.48	.36
CD74HC164M96	296-14514-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	520.00/2,500		
CD74HC165E	296-12790-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.72	.54	.41
CD74HC165M	296-12791-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.47	.38	.29
CD74HC173PWR	296-12792-1-ND	Tri-State Quad D-Type Flip-Flop	16-TSSOP	.48	.36	.27
CD74HC173PWR	296-12792-2-ND	Tri-State Quad D-Type Flip-Flop	16-TSSOP	320.00/2,000		
CD74HC174E	296-14515-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.72	.54	.41
CD74HC192PWR	296-12793-1-ND	Presettable Synchronous 4-Bit Up/Down Counters	16-TSSOP	.60	.45	.34
CD74HC192PWR	296-12793-2-ND	Presettable Synchronous 4-Bit Up/Down Counters	16-TSSOP	400.00/2,000		
CD74HC194E	296-9183-5-ND	4-Bit Bi-Directional Univ. Shift Register	16-Dip	.72	.54	.41
CD74HC194M	296-9185-5-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOIC	.48	.36	.27
CD74HC194M96	296-9185-1-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOIC	.96	.80	.64
CD74HC194M96	296-9185-2-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOIC	390.00/2,500		
CD74HC194PWR	296-12794-1-ND	4-Bit Bi-Directional Univ. Shift Register	16-TSSOP	.48	.36	.27
CD74HC194PWR	296-12794-2-ND	4-Bit Bi-Directional Univ. Shift Register	16-TSSOP	320.00/2,000		
CD74HC195PWR	296-12795-1-ND	4-Bit Parallel Access Register	16-TSSOP	.92	.69	.52
CD74HC195PWR	296-12795-2-ND	4-Bit Parallel Access Register	16-TSSOP	612.00/2,000		
CD74HC221E	296-9187-5-ND	HS Dual Mono Multivibrator with Reset	16-Dip	.66	.50	.38
CD74HC221M96	296-17789-1-ND	HS Dual Mono Multivibrator with Reset	16-SOIC	.60	.45	.34
CD74HC221M96	296-17789-2-ND	HS Dual Mono Multivibrator with Reset	16-SOIC	487.50/2,500		
CD74HC221PWR	296-12796-1-ND	HS Dual Mono Multivibrator w/Reset	16-TSSOP	.60	.45	.34
CD74HC221PWR	296-12796-2-ND	HS Dual Mono Multivibrator w/Reset	16-TSSOP	400.00/2,000		
CD74HC237M96	296-12797-1-ND	3-to-8 Line Decoder Demux with Address Latches	16-SOIC	.64	.48	.36
CD74HC237M96	296-12797-2-ND	3-to-8 Line Decoder Demux with Address Latches	16-SOIC	520.00/2,500		
CD74HC237PWR	296-13813-1-ND	3-to-8 Line Decoder Demux HS, CMOS Logic	16-TSSOP	.64	.48	.36
CD74HC237PWR	296-13813-2-ND	3-to-8 Line Decoder Demux HS, CMOS Logic	16-TSSOP	426.00/2,000		
CD74HC238M	296-9188-5-ND	3-to-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	.48	.36	.27
CD74HC238PWR	296-13814-1-ND	3-to-8 Line Decoder/Demux, HS CMOS Logic, Inverting/Non-Inverting	16-TSSOP	.48	.36	.27
CD74HC238PWR	296-13814-2-ND	3-to-8 Line Decoder/Demux, HS CMOS Logic, Inverting/Non-Inverting	16-TSSOP	320.00/2,000		
CD74HC243M96	296-9189-1-ND	Tri-State Quad Bus Transceiver	14-SOIC	.60	.45	.34
CD74HC243M96	296-9189-2-ND	Tri-State Quad Bus Transceiver	14-SOIC	487.50/2,500		
CD74HC244E	296-12798-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.58	.47	.35
CD74HC244M	296-12799-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.76	.57	.43
CD74HC244M96	296-14516-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.46	.37	.28

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
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CD74HC245E	296-12800-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.60	.48	.36
CD74HC245M	296-9421-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.76	.57	.43
CD74HC245M96	296-14517-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.76	.57	.43
CD74HC245M96	296-14517-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	506.00/2,000		
CD74HC259M	296-9192-5-ND	8-Bit Addressable Latch	16-SOIC	.76	.57	.43
CD74HC259M96	296-9192-1-ND	8-Bit Addressable Latch	16-SOIC	.76	.57	.43
CD74HC259M96	296-9192-2-ND	8-Bit Addressable Latch	16-SOIC	617.50/2,500		
CD74HC273E	296-12801-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.96	.72	.54
CD74HC280M96	296-14518-1-ND	9-Bit Odd/Even Parity Generator/ Checker	14-SOIC	.84	.63	.48
CD74HC280M96	296-14518-2-ND	9-Bit Odd/Even Parity Generator/ Checker	14-SOIC	682.50/2,500		
CD74HC283E	296-14519-5-ND	4-Bit Binary Full Adder with Fast Carry	16-Dip	.62	.47	.35
CD74HC297E	296-9193-5-ND	Digital Phase-Locked-Loop	16-Dip	2.18	1.74	1.31
CD74HC299E	296-9194-5-ND	Tri-State 8-Bit Universal Shift Register	20-Dip	.80	.60	.45
CD74HC299M	296-9195-5-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	.80	.60	.45
CD74HC299M96	296-14520-1-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	.80	.60	.45
CD74HC299M96	296-14520-2-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	532.00/2,000		
CD74HC354E	296-9198-5-ND	Tri-State 8-Input Mux/Register	20-Dip	.88	.66	.50
CD74HC367M96	296-14523-1-ND	Tri-State Hex Buffer/Line Driver, Non-Inverting/Inverting	16-SOIC	.76	.57	.43
CD74HC367M96	296-14523-2-ND	Tri-State Hex Buffer/Line Driver, Non-Inverting/Inverting	16-SOIC	617.50/2,500		
CD74HC373E	296-12805-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.58	.47	.35
CD74HC373M	296-9422-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.76	.57	.43
CD74HC373M96	296-14524-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.76	.57	.43
CD74HC373M96	296-14524-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	506.00/2,000		
CD74HC374E	296-12806-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.96	.72	.54
CD74HC374M	296-12807-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.76	.57	.43
CD74HC374M96	296-14525-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.76	.57	.43
CD74HC374M96	296-14525-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	506.00/2,000		
CD74HC390E	296-9199-5-ND	Dual Decade Ripple Counter	16-Dip	.66	.50	.38
CD74HC390M96	296-14526-1-ND	Dual Decade Ripple Counter	16-SOIC	.60	.45	.34
CD74HC390M96	296-14526-2-ND	Dual Decade Ripple Counter	16-SOIC	487.50/2,500		
CD74HC423E	296-9229-5-ND	Dual Retrig. Monostable Multivibrator with Reset	16-Dip	.76	.57	.43
CD74HC540E	296-12812-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.96	.72	.54
CD74HC541E	296-12813-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.96	.72	.54
CD74HC541M	296-12814-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74HC541M96	296-14538-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74HC541M96	296-14538-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	532.00/2,000		
CD74HC573E	296-12815-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.55	.42	.32
CD74HC573M96	296-12816-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
CD74HC573M96	296-12816-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	532.00/2,000		
CD74HC574E	296-12817-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.96	.72	.54
CD74HC574M	296-12818-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
CD74HC595DWR	296-18401-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.80	.60	.45
CD74HC595DWR	296-18401-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	532.00/2,000		
CD74HC595M96	296-18402-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.80	.60	.45
CD74HC595M96	296-18402-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	650.00/2,500		
CD74HC595NSR	296-18403-1-ND	Tri-State 8-Bit Shift Register	16-SOP	.80	.60	.45
CD74HC595NSR	296-18403-2-ND	Tri-State 8-Bit Shift Register	16-SOP	532.00/2,000		
CD74HC595SM96	296-18404-1-ND	Tri-State 8-Bit Shift Register	16-SSOP	.80	.60	.45
CD74HC595SM96	296-18404-2-ND	Tri-State 8-Bit Shift Register	16-SSOP	532.00/2,000		
CD74HC597M96	296-16704-1-ND	High Speed CMOS Logic 8-Bit Shift Register	16-SOIC	.44	.36	.27
CD74HC597M96	296-16704-2-ND	High Speed CMOS Logic 8-Bit Shift Register	16-SOIC	297.50/2,500		
CD74HC646M	296-9235-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	2.00	1.60	1.20
CD74HC652EN	296-14539-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.50	1.20	.90
CD74HC670M96	296-9236-1-ND	High Speed CMOS Logic 4-by-4 Register File	16-SOIC	1.20	1.00	.80
CD74HC670M96	296-9236-2-ND	High Speed CMOS Logic 4-by-4 Register File	16-SOIC	1300.00/2,500		
CD74HC4016E	296-9204-5-ND	Quad Bilateral Switch	14-Dip	.80	.60	.45
CD74HC4016M96	296-9205-1-ND	Quad Bilateral Switch	14-SOIC	.80	.60	.45
CD74HC4016M96	296-9205-2-ND	Quad Bilateral Switch	14-SOIC	650.00/2,500		
CD74HC4017M96	296-12808-1-ND	High Speed Decade Counter/Divider	16-SOIC	.56	.42	.32
CD74HC4017M96	296-12808-2-ND	High Speed Decade Counter/Divider	16-SOIC	455.00/2,500		
CD74HC4017PWR	296-9423-1-ND	High Speed Decade Counter/Divider	16-TSSOP	.56	.42	.32
CD74HC4017PWR	296-9423-2-ND	High Speed Decade Counter/Divider	16-TSSOP	372.00/2,000		
CD74HC4017QM96EP	296-22102-1-ND	HS Decade Counter/Divider ***NEW!***	16-SOIC	1.26	1.05	.84
CD74HC4017QM96EP	296-22102-2-ND	HS Decade Counter/Divider ***NEW!***	16-SOIC	1365.00/2,500		
CD74HC4017QPWREP	296-22103-1-ND	HS Decade Counter/Divider ***NEW!***	16-TSSOP	1.26	1.05	.84
CD74HC4017QPWREP	296-22103-2-ND	HS Decade Counter/Divider ***NEW!***	16-TSSOP	1118.00/2,000		
CD74HC4020M96	296-12809-1-ND	HS CMOS Logic 14-Bit Binary Counter	16-SOIC	.50	.40	.30
CD74HC4020M96	296-12809-2-ND	HS CMOS Logic 14-Bit Binary Counter	16-SOIC	372.50/2,500		
CD74HC4024E	296-9206-5-ND	7-Stage Binary Ripple Counter	14-Dip	.53	.40	.30
CD74HC4024M	296-9207-5-ND	7-Stage Binary Ripple Counter	14-SOIC	.48	.36	.27
CD74HC4040M96	296-14527-1-ND	12-Stage Binary Counter	16-SOIC	.64	.48	.36
CD74HC4040M96	296-14527-2-ND	12-Stage Binary Counter	16-SOIC	520.00/2,500		
CD74HC4046AE	296-9208-5-ND	Phase-Locked-Loop with VCO	16-Dip	.60	.45	.34
CD74HC4046AM	296-9209-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.60	.45	.34
CD74HC4046AM96	296-14528-1-ND	Phase-Locked-Loop with VCO	16-SOIC	.60	.45	.34
CD74HC4046AM96	296-14528-2-ND	Phase-Locked-Loop with VCO	16-SOIC	487.50/2,500		
CD74HC4046APWR	296-9210-1-ND	Phase-Locked-Loop with VCO	16-TSSOP	.60	.45	.34
CD74HC4046APWR	296-9210-2-ND	Phase-Locked-Loop with VCO	16-TSSOP	400.00/2,000		
CD74HC4049E	296-9211-5-ND	Hex Inverting Buffer	16-Dip	.62	.47	.35
CD74HC4049M	296-9212-5-ND	Hex Inverting Buffer	16-SOIC	.56	.42	.32
CD74HC4049PWR	296-15717-1-ND	Hex Inverting Buffer	16-TSSOP	.56	.42	.32
CD74HC4049PWR	296-15717-2-ND	Hex Inverting Buffer	16-TSSOP	372.00/2,000		
CD74HC4050E	296-9213-5-ND	Hex Non-Inverting Buffer	16-Dip	.55	.44	.33
CD74HC4050M	296-9214-5-ND	Hex Non-Inverting Buffer	16-SOIC	.50	.40	.30
CD74HC4050M96	296-14529-1-ND	Hex Non-Inverting Buffer	16-SOIC	.47	.38	.29
CD74HC4050M96	296-14529-2-ND	Hex Non-Inverting Buffer	16-SOIC	317.50/2,500		
CD74HC4050NSR	296-23207-1-ND	Hex Non-Inverting Buffer ***NEW!***	16-SOIC	.50	.40	.30
CD74HC4050NSR	296-23207-2-ND	Hex Non-Inverting Buffer ***NEW!***	16-SOIC	280.00/2,000		
CD74HC4050PWR	296-9215-1-ND	Hex Non-Inverting Buffer	16-TSSOP	.50	.40	.30
CD74HC4050PWR	296-9215-2-ND	Hex Non-Inverting Buffer	16-TSSOP	280.00/2,000		
CD74HC4051E	296-12810-5-ND	HS CMOS Logic Analog Mux/Demux	16-Dip	.53	.42	.32
CD74HC4051M	296-9216-5-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	.47	.38	.29
CD74HC4051M96	296-14530-1-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	.47	.38	.29
CD74HC4051M96	296-14530-2-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	317.50/2,500		
CD74HC4051MDREP	296-22104-1-ND	HS CMOS Logic Analog Mux/Demux ***NEW!***	16-SOIC	2.25	1.80	1.40
CD74HC4051MDREP	296-22104-2-ND	HS CMOS Logic Analog Mux/Demux ***NEW!***	16-SOIC	3150.00/2,500		
CD74HC4051MM96EP	296-22105-1-ND	HS CMOS Logic Analog Mux/Demux ***NEW!***	16-SOIC	1.55	1.24	.93
CD74HC4051MM96EP	296-22105-2-ND	HS CMOS Logic Analog Mux/Demux ***NEW!***	16-SOIC	1985.00/2,500		
CD74HC4051PWR	296-13031-1-ND	HS CMOS Logic Analog Mux/Demux	16-TSSOP	.50	.40	.30
CD74HC4051PWR	296-13031-2-ND	HS CMOS Logic Analog Mux/Demux	16-TSSOP	308.00/2,000		
CD74HC4052E	296-9217-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.48	.37	.28
CD74HC4052M	296-9218-5-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.55	.44	.33
CD74HC4052M96	296-14531-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.55	.44	.33
CD74HC4052M96	296-14531-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	372.50/2,500		
CD74HC4052PWR	296-17619-1-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	.48	.36	.27
CD74HC4052PWR	296-17619-2-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	320.00/2,000		
CD74HC4053E	296-9219-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.55	.44	.33
CD74HC4053M	296-9220-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.44	.36	.27
CD74HC4053M96	296-14532-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.44	.36	.27
CD74HC4053M96	296-14532-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	297.50/2,500		
CD74HC4053PWR	296-12111-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.42	.34	.25
CD74HC4053PWR	296-12111-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	232.00/2,000		
CD74HC4059M96	296-9221-1-ND	CMOS Prog. Divide-by-N Counter	24-SOIC	2.48	1.98	1.49
CD74HC4059M96	296-9221-2-ND	CMOS Prog. Divide-by-N Counter	24-SOIC	2574.00/2,000		
CD74HC4060M	296-9222-5-ND	14-Stage Binary Counter with Oscillator	16-SOIC	.48	.36	.27
CD74HC4066E	296-14533-5-ND	Quad Bilateral Switch	14-Dip	.48	.37	.28
CD74HC4066M	296-9224-5-ND	Quad Bilateral Switch	14-SOIC	.55	.44	.33
CD74HC4066M96	296-9224-1-ND	Quad Bilateral Switch	14-SOIC	.47	.38	.26
CD74HC4060M96	296-9224-2-ND	Quad Bilateral Switch	14-SOIC	305.00/2,500		
CD74HC4066PWR	296-16703-1-ND	High Speed CMOS Logic Quad Bilateral Switch	14-TSSOP	.50	.40	.30
CD74HC4066PWR	296-16703-2-ND	High Speed CMOS Logic Quad Bilateral Switch	14-TSSOP	308.00/2,000		
CD74HC4067M	296-9225-5-ND	16-Channel Analog Mux/Demux	24-SOIC	.72	.54	.41
CD74HC4067SM96	296-9226-1-ND	16-Channel Analog Mux/Demux	24-SSOP	.88	.66	.50
CD74HC4067SM96	296-9226-2-ND	16-Channel Analog Mux/Demux	24-SSOP	586.00/2,000		
CD74HC4075M	296-9227-5-ND	Triple 3-Input OR Gate	14-SOIC	.48	.36	.27
CD74HC4075M96	296-14534-1-ND	Triple 3-Input OR Gate	14-SOIC	.48	.36	.27
CD74HC4075M96	296-14534-2-ND	Triple 3-Input OR Gate	14-SOIC	390.00/2,500		
CD74HC4075PWR	296-9228-1-ND	Triple 3-Input OR Gate	14-TSSOP	.52	.39	.30
CD74HC4075PWR	296-9228-2-ND	Triple 3-Input OR Gate	14-TSSOP	346.00/2,000		
CD74HC4094M	296-14290-5-ND	Tri-State 8-Stage Bus Register	16-SOIC	.48	.36	.27
CD74HC4094M96	296-14535-1-ND	Tri-State 8-Stage Bus Register	16-SOIC	.48	.36	.27
CD74HC4094M96	296-14535-2-ND	Tri-State 8-Stage Bus Register	16-SOIC	390.00/2,500		
CD74HC4316M	296-9230-5-ND	Quad Analog Switch with Level Translation	16-SOIC	.72	.54	.41
CD74HC4316M96	296-14536-1-ND	Quad Analog Switch with Level Translation	16-SOIC	.48	.37	.28
CD74HC4316M96	296-14536-2-ND	Quad Analog Switch with Level Translation	16-SOIC	392.50/2,500		
CD74HC4351E	296-9231-5-ND	Analog Mux/Demux with Latch	20-Dip	.84	.70	.56
CD74HC4511E	296-14537-5-ND	BCD-to-7 Segment Latch/Decoder/Driver	16-Dip	.80	.60	.45
CD74HC4511M	296-9232-5-ND	BCD-to-7 Segment Latch/Decoder/ Driver	16-SOIC	.80	.60	.45
CD74HC4511PWR	296-23208-1-ND	BCD-to-7 Segment Latch/Decoder/ Driver ***NEW!***	16-TSSOP	.80	.60	.45
CD74HC4511PWR	296-23208-2-ND	BCD-to-7 Segment Latch/Decoder/ Driver ***NEW!***	16-TSSOP	532.00/2,000		
CD74HC4515M	296-9233-5-ND	4-16 Line Decoder/Demux with Input Latch	24-SOIC	2.13	1.70	1.28
CD74HC4538E	296-12811-5-ND	Dual Retriggerable Precision Monostable Multivibrator	16-Dip	.80	.60	.45
CD74HC4538M	296-9234-5-ND	Dual Retriggerable Precision Monostable Multivibrator	16-SOIC	.72	.54	.41
CD74HC7046AE	296-9237-5-ND	PLL with VCO/Lock Detector	16-Dip	1.93	1.54	1.16
CD74HC7046AM	296-9238-5-ND	PLL with VCO/Lock Detector	16-SOIC	1.93	1.54	1.16
CD74HC7266M	296-9239-5-ND	Quad 2-Input Exclusive NOR Gate	14-SOIC	.78	.65	.52
CD74HC40103E	296-9200-5-ND	8-Stage Synchronous Down Counter	16-Dip	.81	.68	.54
CD74HC40103M	296-9201-5-ND	8-Stage Synchronous Down Counter	16-SOIC	.81	.68	.54
CD74HC40103QM96EP	296-22101-1-ND	8-Stage Sync. Down Counter ***NEW!***	16-SOIC	2.03	1.62	1.22
CD74HC40103QM96EP	296-22101-2-ND	8-Stage Sync. Down Counter ***NEW!***	16-SOIC	2592.50/2,500		
CD74HC40105E	296-9202-5-ND	4-Bit by 16-Word FIFO Register	16-Dip	.78	.65	.52
CD74HC40105M96	296-9203-1-ND	4-Bit by 16-Word FIFO Register	16-SOIC	.78	.65	.52
CD74HC40105M96	296-9203-2-ND	4-Bit by 16-Word FIFO Register	16-SOIC	845.00/2,500		
SN74HC00D	296-1187-5-ND	Quad 2-Input NAND Gate	14-SOIC	.39	.32	.22
SN74HC00DR	296-1187-1-ND	Quad 2-Input NAND Gate	14-SOIC	.39	.32	.22
SN74HC00DR	296-1187-2-ND	Quad 2-Input NAND Gate	14-SOIC	255.00/2,500		
SN74HC00N	296-1563-5-ND	Quad 2-Input NAND Gate	14-Dip	.47	.38	.26
SN74HC00NSR	296-8202-1-ND	Quad 2-Input NAND Gate	14-SOP	.51	.42	.29
SN74HC00NSR	296-8202-2-ND	Quad 2-Input NAND Gate	14-SOP	284.00/2,000		
SN74HC00PWR	296-8203-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.39	.32	.22
SN74HC00PWR	296-8203-2-ND	Quad 2-Input NAND Gate	14-TSSOP	216.00/2,000		
SN74HC00QDRQ1	296-18232-1-ND	Quad 2-Input NAND Gate	14-SOIC	.41	.33	.25
SN74HC00QDRQ1	296-18232-2-ND	Quad 2-Input NAND Gate	14-SOIC	277.50/2,500		
SN74HC02D	296-1188-5-ND	Quad 2-Input NOR Gate	14-SOIC	.39	.32	.22
SN74HC02DR	296-1188-1-ND	Quad 2-Input NOR Gate	14-SOIC	.39	.32	.22
SN74HC02DR	296-1188-2-ND	Quad 2-Input NOR Gate	14-SOIC	255.00/2,500		
SN74HC02DBR	296-8204-1-ND	Quad 2-Input NOR Gate	14-SSOP	.46	.37	.26
SN74HC02DBR	296-8204-2-ND	Quad 2-Input NOR Gate	14-SSOP	252.00/2,000		
SN74HC02N	296-1564-5-ND	Quad 2-Input NOR Gate	14-Dip	.47	.38	.26
SN74HC02NSR	296-8205-1-ND	Quad 2-Input NOR Gate	14-SOP	.51	.42	.29
SN74HC02NSR	296-8205-2-ND	Quad 2-Input NOR Gate	14-SOP	284.00/2,000		
SN74HC02PWR	296-8206-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.39	.32	.22
SN74HC02PWR	296-8206-2-ND	Quad 2-Input NOR Gate	14-TSSOP	216.00/2,000		
SN74HC02QPWREP	296-19505-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.84	.63	.48
SN74HC02QPWREP	296-19505-2-ND	Quad 2-Input NOR Gate	14-TSSOP	558.00/2,000		
SN74HC03D	296-9817-5-ND	Quad 2-In. NAND Gate with OD Output	14-SOIC	.46	.37	.26
SN74HC03DR	296-14826-1-ND	Quad 2-In. NAND Gate with OD Output	14-SOIC	.46	.37	.26
SN74HC03DR	296-14826-2-ND	Quad 2-In. NAND Gate with OD Output	14-SOIC	297.50/2,500		
SN74HC03N	296-8207-5-ND	Quad 2-In. NAND Gate with OD Output	14-Dip	.50	.40	.30
SN74HC04D	296-1189-5-ND	Hex Inverter	14-SOIC	.39	.32	.22
SN74HC04DBR	296-19247-1-ND	Hex Inverter	14-SSOP	.46	.37	.26

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HC04DBR	296-19247-2-ND	Hex Inverter	14-SSOP	252.00/2,000		
SN74HC04DR	296-1189-1-ND	Hex Inverter	14-SOIC	.39	.32	.22
SN74HC04DR	296-1189-2-ND	Hex Inverter	14-SOIC	255.00/2,500		
SN74HC04N	296-1566-5-ND	Hex Inverter	14-Dip	.47	.38	.26
SN74HC04NSR	296-12883-1-ND	Hex Inverter	14-SOP	.51	.42	.29
SN74HC04NSR	296-12883-2-ND	Hex Inverter	14-SOP	284.00/2,000		
SN74HC04PWR	296-8208-1-ND	Hex Inverter	14-TSSOP	.39	.32	.22
SN74HC04PWR	296-8208-2-ND	Hex Inverter	14-TSSOP	216.00/2,000		
SN74HC05D	296-1190-5-ND	Hex Inverter with OD	14-SOIC	.46	.37	.26
SN74HC05DR	296-1190-1-ND	Hex Inverter with OD	14-SOIC	.40	.33	.22
SN74HC05DR	296-1190-2-ND	Hex Inverter with OD	14-SOIC	260.00/2,500		
SN74HC05N	296-1568-5-ND	Hex Inverter with OD	14-Dip	.47	.38	.26
SN74HC08D	296-1191-5-ND	Quad 2-Input AND Gate	14-SOIC	.39	.32	.22
SN74HC08DR	296-1191-1-ND	Quad 2-Input AND Gate	14-SOIC	.39	.32	.22
SN74HC08DR	296-1191-2-ND	Quad 2-Input AND Gate	14-SOIC	255.00/2,500		
SN74HC08N	296-1570-5-ND	Quad 2-Input AND Gate	14-Dip	.47	.38	.26
SN74HC08NSR	296-12884-1-ND	Quad 2-Input AND Gate	14-SOP	.51	.42	.29
SN74HC08NSR	296-12884-2-ND	Quad 2-Input AND Gate	14-SOP	284.00/2,000		
SN74HC08PWR	296-8210-1-ND	Quad 2-Input AND Gate	14-TSSOP	.39	.32	.22
SN74HC08PWR	296-8210-2-ND	Quad 2-Input AND Gate	14-TSSOP	216.00/2,000		
SN74HC10D	296-8213-5-ND	Triple 3-Input NAND Gate	14-SOIC	.39	.32	.22
SN74HC10DR	296-14828-1-ND	Triple 3-Input NAND Gate	14-SOIC	.39	.32	.22
SN74HC10DR	296-14828-2-ND	Triple 3-Input NAND Gate	14-SOIC	255.00/2,500		
SN74HC10N	296-8214-5-ND	Triple 3-Input NAND Gate	14-Dip	.50	.40	.30
SN74HC10QDREP	296-22295-1-ND	Triple 3-Input NAND Gate ***NEW!***	14-SOIC	.84	.63	.48
SN74HC10QDREP	296-22295-2-ND	Triple 3-Input NAND Gate ***NEW!***	14-SOIC	682.50/2,500		
SN74HC10QPWREP	296-22296-1-ND	Triple 3-Input NAND Gate ***NEW!***	14-TSSOP	.84	.63	.48
SN74HC10QPWREP	296-22296-2-ND	Triple 3-Input NAND Gate ***NEW!***	14-TSSOP	558.00/2,000		
SN74HC11D	296-8216-5-ND	Triple 3-Input Positive AND Gate	14-SOIC	.46	.37	.26
SN74HC11DR	296-14830-1-ND	Triple 3-Input Positive AND Gate	14-SOIC	.40	.33	.22
SN74HC11DR	296-14830-2-ND	Triple 3-Input Positive AND Gate	14-SOIC	260.00/2,500		
SN74HC11N	296-8217-5-ND	Triple 3-Input Positive AND Gate	14-Dip	.50	.40	.30
SN74HC11NSR	296-12885-1-ND	Triple 3-Input Positive AND Gate	14-SOP	.51	.42	.29
SN74HC11NSR	296-12885-2-ND	Triple 3-Input Positive AND Gate	14-SOP	284.00/2,000		
SN74HC11PWR	296-13611-1-ND	Triple 3-Input Positive AND Gate	14-TSSOP	.40	.33	.22
SN74HC11PWR	296-13611-2-ND	Triple 3-Input Positive AND Gate	14-TSSOP	220.00/2,000		
SN74HC14D	296-1194-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.39	.32	.22
SN74HC14DR	296-1194-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.39	.32	.22
SN74HC14DR	296-1194-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	255.00/2,500		
SN74HC14N	296-1577-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.47	.38	.26
SN74HC14NSR	296-12887-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	.51	.42	.29
SN74HC14NSR	296-12887-2-ND	Hex Schmitt-Trigger Inverter	14-SOP	284.00/2,000		
SN74HC14PWR	296-8234-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.39	.32	.22
SN74HC14PWR	296-8234-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	216.00/2,000		
SN74HC14QDRQ1	296-19248-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.41	.33	.25
SN74HC14QDRQ1	296-19248-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	277.50/2,500		
SN74HC14QPWRQ1	296-17530-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.44	.35	.27
SN74HC14QPWRQ1	296-17530-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	244.00/2,000		
SN74HC20DR	296-8263-1-ND	Dual 4-Input NAND Gate	14-SOIC	.46	.37	.26
SN74HC20DR	296-8263-2-ND	Dual 4-Input NAND Gate	14-SOIC	297.50/2,500		
SN74HC20N	296-12892-5-ND	Dual 4-Input NAND Gate	14-Dip	.53	.42	.32
SN74HC20NSR	296-12893-1-ND	Dual 4-Input NAND Gate	14-SOP	.51	.42	.29
SN74HC20NSR	296-12893-2-ND	Dual 4-Input NAND Gate	14-SOP	284.00/2,000		
SN74HC21D	296-8265-5-ND	Dual 4-Input Positive AND Gate	14-SOIC	.46	.37	.26
SN74HC21DR	296-14842-1-ND	Dual 4-Input Positive AND Gate	14-SOIC	.46	.37	.26
SN74HC21DR	296-14842-2-ND	Dual 4-Input Positive AND Gate	14-SOIC	297.50/2,500		
SN74HC21N	296-8266-5-ND	Dual 4-Input Positive AND Gate	14-Dip	.53	.42	.32
SN74HC21NSR	296-13216-1-ND	Dual 4-Input Positive AND Gate	14-SOP	.51	.42	.29
SN74HC21NSR	296-13216-2-ND	Dual 4-Input Positive AND Gate	14-SOP	284.00/2,000		
SN74HC21PWR	296-15846-1-ND	Dual 4-Input Positive AND Gate	14-TSSOP	.46	.37	.26
SN74HC21PWR	296-15846-2-ND	Dual 4-Input Positive AND Gate	14-TSSOP	252.00/2,000		
SN74HC21QPWRQ1	296-18317-1-ND	Dual 4-Input Positive AND Gate	14-TSSOP	.41	.33	.25
SN74HC21QPWRQ1	296-18317-2-ND	Dual 4-Input Positive AND Gate	14-TSSOP	230.00/2,000		
SN74HC27D	296-8298-5-ND	Triple 3-Input NOR Gate	14-SOIC	.46	.37	.26
SN74HC27DR	296-14848-1-ND	Triple 3-Input NOR Gate	14-SOIC	.40	.33	.22
SN74HC27DR	296-14848-2-ND	Triple 3-Input NOR Gate	14-SOIC	260.00/2,500		
SN74HC27N	296-12896-5-ND	Triple 3-Input NOR Gate	14-Dip	.50	.40	.30
SN74HC27NSR	296-8299-1-ND	Triple 3-Input NOR Gate	14-SOP	.51	.42	.29
SN74HC27NSR	296-8299-2-ND	Triple 3-Input NOR Gate	14-SOP	284.00/2,000		
SN74HC32D	296-1199-5-ND	Quad 2-Input OR Gate	14-SOIC	.39	.32	.22
SN74HC32DR	296-1199-1-ND	Quad 2-Input OR Gate	14-SOIC	.39	.32	.22
SN74HC32DR	296-1199-2-ND	Quad 2-Input OR Gate	14-SOIC	255.00/2,500		
SN74HC32DBR	296-8301-1-ND	Quad 2-Input OR Gate	14-SSOP	.46	.37	.26
SN74HC32DBR	296-8301-2-ND	Quad 2-Input OR Gate	14-SSOP	252.00/2,000		
SN74HC32N	296-1589-5-ND	Quad 2-Input OR Gate	14-Dip	.47	.38	.26
SN74HC32PWR	296-8302-1-ND	Quad 2-Input OR Gate	14-TSSOP	.39	.32	.22
SN74HC32PWR	296-8302-2-ND	Quad 2-Input OR Gate	14-TSSOP	216.00/2,000		
SN74HC42D	296-8331-5-ND	4-to-10 Line Decoder (1 of 10)	16-SOIC	.96	.72	.54
SN74HC42DR	296-8331-1-ND	4-to-10 Line Decoder (1 of 10)	16-SOIC	.96	.72	.54
SN74HC42DR	296-8331-2-ND	4-to-10 Line Decoder (1 of 10)	16-SOIC	780.00/2,500		
SN74HC42N	296-8332-5-ND	4-to-10 Line Decoder (1 of 10)	16-Dip	.96	.72	.54
SN74HC74D	296-1204-5-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOIC	.39	.32	.22
SN74HC74DR	296-1204-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOIC	.39	.32	.22
SN74HC74DR	296-1204-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOIC	255.00/2,500		
SN74HC74DBR	296-8370-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SSOP	.46	.37	.26
SN74HC74DBR	296-8370-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SSOP	252.00/2,000		
SN74HC74MPWREP	296-23317-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset ***NEW!***	14-TSSOP	.84	.63	.48
SN74HC74MPWREP	296-23317-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset ***NEW!***	14-TSSOP	558.00/2,000		
SN74HC74N	296-1602-5-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-Dip	.47	.38	.26
SN74HC74NSR	296-8371-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOP	.51	.42	.29
SN74HC74NSR	296-8371-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOP	284.00/2,000		
SN74HC74PWR	296-8372-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	.40	.33	.22
SN74HC74PWR	296-8372-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	220.00/2,000		
SN74HC74QPWRQ1	296-19255-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	.44	.35	.27
SN74HC74QPWRQ1	296-19255-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	244.00/2,000		
SN74HC86D	296-8374-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.43	.35	.24
SN74HC86DR	296-14859-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.43	.35	.24
SN74HC86DR	296-14859-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	280.00/2,500		
SN74HC86N	296-8375-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.50	.41	.28
SN74HC86PWR	296-8376-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.40	.33	.22
SN74HC86PWR	296-8376-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	220.00/2,000		
SN74HC109D	296-8211-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	.45	.36	.27
SN74HC109DR	296-14827-1-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	.45	.36	.27
SN74HC109DR	296-14827-2-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	305.00/2,500		
SN74HC109N	296-8212-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-Dip	.53	.42	.32
SN74HC112D	296-8215-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	.45	.36	.27
SN74HC112DR	296-14829-1-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	.45	.36	.27
SN74HC112DR	296-14829-2-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	305.00/2,500		
SN74HC112N	296-12121-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-Dip	.50	.40	.30
SN74HC125D	296-1192-5-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.42	.34	.24
SN74HC125DR	296-1192-1-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.43	.35	.24
SN74HC125DR	296-1192-2-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	280.00/2,500		
SN74HC125DBR	296-8218-1-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74HC125DBR	296-8218-2-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	308.00/2,000		
SN74HC125N	296-1572-5-ND	Quad Tri-State Bus Buffer Gate	14-Dip	.50	.41	.28
SN74HC125PWT	296-16821-1-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP	.78	.65	.52
SN74HC125PWT	296-16821-2-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP	97.50/250		
SN74HC126D	296-8219-5-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.45	.36	.27
SN74HC126DBR	296-8220-1-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74HC126DBR	296-8220-2-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	308.00/2,000		
SN74HC126DR	296-14831-1-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.45	.36	.27
SN74HC126DR	296-14831-2-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	305.00/2,500		
SN74HC126N	296-8221-5-ND	Quad Tri-State Bus Buffer Gate	14-Dip	.44	.36	.27
SN74HC126NSR	296-8222-1-ND	Quad Tri-State Bus Buffer Gate	14-SOP	.55	.44	.33
SN74HC126NSR	296-8222-2-ND	Quad Tri-State Bus Buffer Gate	14-SOP	308.00/2,000		
SN74HC126PWT	296-16822-1-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP	.78	.65	.52
SN74HC126PWT	296-16822-2-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP	97.50/250		
SN74HC132D	296-8224-5-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOIC	.43	.35	.24
SN74HC132DBR	296-8225-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SSOP	.55	.44	.33
SN74HC132DBR	296-8225-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SSOP	308.00/2,000		
SN74HC132DR	296-14832-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOIC	.43	.35	.24
SN74HC132DR	296-14832-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOIC	280.00/2,500		
SN74HC132N	296-1573-5-ND	Quad NAND Gate w/Schmitt-Trigger In	14-Dip	.44	.36	.27
SN74HC132PWR	296-8226-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-TSSOP	.45	.36	.27
SN74HC132PWR	296-8226-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-TSSOP	252.00/2,000		
SN74HC138D	296-1193-5-ND	3-to-8 Line Decoder/Demux	16-SOIC	.50	.41	.28
SN74HC138DR	296-1193-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	.50	.41	.28
SN74HC138DR	296-1193-2-ND	3-to-8 Line Decoder/Demux	16-SOIC	327.50/2,500		
SN74HC138DBR	296-8227-1-ND	3-to-8 Line Decoder/Demux	16-SSOP	.55	.44	.33
SN74HC138DBR	296-8227-2-ND	3-to-8 Line Decoder/Demux	16-SSOP	308.00/2,000		
SN74HC138N	296-1575-5-ND	3-to-8 Line Decoder/Demux	16-Dip	.44	.36	.27
SN74HC138NSR	296-12886-1-ND	3-to-8 Line Decoder/Demux	16-SOP	.55	.44	.33
SN74HC138NSR	296-12886-2-ND	3-to-8 Line Decoder/Demux	16-SOP	308.00/2,000		
SN74HC138PWR	296-8228-1-ND	3-to-8 Line Decoder/Demux	16-TSSOP	.50	.41	.28
SN74HC138PWR	296-8228-2-ND	3-to-8 Line Decoder/Demux	16-TSSOP	278.00/2,000		
SN74HC138QDRQ1	296-22884-1-ND	3-to-8 Line Decoder/Demux ***NEW!***	16-SOIC	.52	.39	.30
SN74HC138QDRQ1	296-22884-2-ND	3-to-8 Line Decoder/Demux ***NEW!***	16-SOIC	420.00/2,500		
SN74HC139D	296-8229-5-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.47	.38	.26
SN74HC139DR	296-14833-1-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.47	.38	.26
SN74HC139DR	296-14833-2-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	305.00/2,500		
SN74HC139N	296-8230-5-ND	Dual 2-4 Line Decoder/Demux	16-Dip	.44	.36	.27
SN74HC139PWR	296-8231-1-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	.45	.36	.27
SN74HC139PWR	296-8231-2-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	252.00/2,000		
SN74HC139QPWRQ1	296-18717-1-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	.52	.39	.30
SN74HC139QPWRQ1	296-18717-2-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	344.00/2,000		
SN74HC148D	296-8232-5-ND	8-to-3 Line Priority Encoder	16-SOIC	.45	.36	.27
SN74HC148N	296-8233-5-ND	8-to-3 Line Priority Encoder	16-Dip	.60	.45	.34
SN74HC151D	296-8235-5-ND	8-1 Line Data Selector/Mux	16-SOIC	.50	.40	.30
SN74HC151DR	296-14834-1-ND	8-1 Line Data Selector/Mux	16-SOIC	.47	.38	.29
SN74HC151DR	296-14834-2-ND	8-1 Line Data Selector/Mux	16-SOIC	317.50/2,500		
SN74HC151N	296-8236-5-ND	8-1 Line Data Selector/Mux	16-Dip	.53	.42	.32
SN74HC153D	296-8237-5-ND	Dual 4-1 Line Data Selector/Mux	16-SOIC	.45	.36	.27
SN74HC153DR	296-14835-1-ND	Dual 4-1 Line Data Selector/Mux	16-SOIC	.44	.36	.27
SN74HC153DR	296-14835-2-ND	Dual 4-1 Line Data Selector/Mux	16-SOIC	297.50/2,500		
SN74HC153PWR	296-12888-1-ND	Dual 4-1 Line Data Selector/Mux	16-TSSOP	.55	.44	.33
SN74HC153PWR	296-12888-2-ND	Dual 4-1 Line Data Selector/Mux	16-TSSOP	308.00/2,000		
SN74HC153N	296-8238-5-ND	Dual 4-1 Line Data Selector/Mux	16-Dip	.48	.36	.27
SN74HC157D	296-8239-5-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.42	.34	.25
SN74HC157DR	296-14836-1-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.42	.34	.25
SN74HC157DR	296-14836-2-ND	Quad 2-1 Data Selector/Mux	16-SOIC	280.00/2,500		
SN74HC157N	296-1578-5-ND	Quad 2-1 Data Selector/Mux	16-Dip	.47	.38	.29
SN74HC157NSR	296-8240-1-ND	Quad 2-1 Data Selector/Mux	16-SOP	.48	.36	.27
SN74HC157NSR	296-8240-2-ND	Quad 2-1 Data Selector/Mux	16-SOP	320.00/2,000		
SN74HC161D	296-8243-5-ND	4-Bit Sync. Binary Counter	16-SOIC	.44	.36	.27
SN74HC161DR	296-14837-1-ND	4-Bit Sync. Binary Counter	16-SOIC	.45	.36	.27
SN74HC161DR	296-14837-2-ND	4-Bit Sync. Binary Counter	16-SOIC	305.00/2,500		
SN74HC161N	296-8244-5-ND	4-Bit Sync. Binary Counter	16-Dip	.53	.40	.30
SN74HC163D	296-8245-5-ND	4-Bit Sync. Binary Counter	16-SOIC	.45	.36	.27
SN74HC163N	296-8246-5-ND	4-Bit Sync. Binary Counter	16-Dip	.48	.36	.27
SN74HC163NSR	296-12889-1-ND	4-Bit Sync. Binary Counter	16-SOP	.55	.44	.33
SN74HC163NSR	296-12889-2-ND	4-Bit Sync. Binary Counter	16-SOP	308.00/2,000		
SN74HC164D	296-8247-5-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	.44	.36	.27
SN74HC164DR	296-14838-1-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	.44	.36	.27
SN74HC164DR	296-14838-2-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	297.50/2,500		
SN74HC164N	296-8248-5-ND	8-Bit Parallel-Out Serial Shift Register	14-Dip	.49	.39	.30
SN74HC164PWR	296-14020-1-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	.45	.36	.27
SN74HC164PWR	296-14020-2-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	252.00/2,000		
SN74HC165D	296-8249-5-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.44	.36	.27
SN74HC165DBR	296-23151-1-ND	8-Bit Parallel-Load Shift Register ***NEW!***	16-SSOP	.55	.44	.33
SN74HC165DBR	296-23151-2-ND	8-Bit Parallel-Load Shift Register ***NEW!***	16-SSOP	308.00/2,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74HC165DR	296-8250-1-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.44	.36	.27
SN74HC165DR	296-8250-2-ND	8-Bit Parallel-Load Shift Register	16-SOIC	297.50/2,500		
SN74HC165N	296-8251-5-ND	8-Bit Parallel-Load Shift Register	16-Dip	.50	.40	.30
SN74HC165NSR	296-8252-1-ND	8-Bit Parallel-Load Shift Register	16-SOP	.55	.44	.33
SN74HC165NSR	296-8252-2-ND	8-Bit Parallel-Load Shift Register	16-SOP	308.00/2,000		
SN74HC165PWR	296-8253-1-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	.44	.36	.27
SN74HC165PWR	296-8253-2-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	246.00/2,000		
SN74HC165QDREP	296-22297-1-ND	8-Bit Parallel-Load Shift Register ***NEW!***	16-SOIC	.99	.83	.66
SN74HC165QDREP	296-22297-2-ND	8-Bit Parallel-Load Shift Register ***NEW!***	16-SOIC	1072.50/2,500		
SN74HC165QPWREP	296-22298-1-ND	8-Bit Parallel-Load Shift Register ***NEW!***	16-TSSOP	.99	.83	.66
SN74HC165QPWREP	296-22298-2-ND	8-Bit Parallel-Load Shift Register ***NEW!***	16-TSSOP	878.00/2,000		
SN74HC166AIDREP	296-22299-1-ND	8-Bit Parallel-Load Shift Register ***NEW!***	16-SOIC	.75	.63	.50
SN74HC166AIDREP	296-22299-2-ND	8-Bit Parallel-Load Shift Register ***NEW!***	16-SOIC	812.50/2,500		
SN74HC166D	296-8254-5-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.45	.36	.27
SN74HC166DR	296-14839-1-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.44	.36	.27
SN74HC166DR	296-14839-2-ND	8-Bit Parallel-Load Shift Register	16-SOIC	297.50/2,500		
SN74HC166N	296-8255-5-ND	8-Bit Parallel-Load Shift Register	16-Dip	.49	.39	.30
SN74HC166NSR	296-13214-1-ND	8-Bit Parallel-Load Shift Register	16-SOP	.55	.44	.33
SN74HC166NSR	296-13214-2-ND	8-Bit Parallel-Load Shift Register	16-SOP	308.00/2,000		
SN74HC174D	296-1195-5-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.45	.36	.27
SN74HC174DBR	296-19249-1-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	.55	.44	.33
SN74HC174DBR	296-19249-2-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	308.00/2,000		
SN74HC174DR	296-1195-1-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.44	.36	.27
SN74HC174DR	296-1195-2-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	297.50/2,500		
SN74HC174N	296-1579-5-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.49	.39	.30
SN74HC174NSR	296-13215-1-ND	Hex D-Type Flip-Flop with Clear	16-SOP	.55	.44	.33
SN74HC174NSR	296-13215-2-ND	Hex D-Type Flip-Flop with Clear	16-SOP	308.00/2,000		
SN74HC174PWT	296-23256-1-ND	Hex D-Type F/F with Clear ***NEW!***	16-TSSOP	.78	.65	.52
SN74HC174PWT	296-23256-2-ND	Hex D-Type F/F with Clear ***NEW!***	16-TSSOP	97.50/250		
SN74HC175D	296-8256-5-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.45	.36	.27
SN74HC175DR	296-14840-1-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.44	.36	.27
SN74HC175DR	296-14840-2-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	297.50/2,500		
SN74HC175N	296-8257-5-ND	Quad D-Type Flip-Flop with Clear	16-Dip	.49	.39	.30
SN74HC175PWR	296-8258-1-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	.44	.36	.27
SN74HC175PWR	296-8258-2-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	246.00/2,000		
SN74HC191D	296-8259-5-ND	4-Bit Sync. Up/Down Binary Counter	16-SOIC	.55	.44	.33
SN74HC191DR	296-14841-1-ND	4-Bit Sync. Up/Down Binary Counter	16-SOIC	.55	.44	.33
SN74HC191DR	296-14841-2-ND	4-Bit Sync. Up/Down Binary Counter	16-SOIC	372.50/2,500		
SN74HC191N	296-8260-5-ND	4-Bit Sync. Up/Down Binary Counter	16-Dip	.53	.40	.30
SN74HC191NSR	296-12890-1-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	.48	.36	.27
SN74HC191NSR	296-12890-2-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	320.00/2,000		
SN74HC193D	296-8261-5-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-SOIC	.55	.44	.33
SN74HC193N	296-8262-5-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-Dip	.53	.40	.30
SN74HC193NSR	296-12891-1-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-SOP	.48	.36	.27
SN74HC193NSR	296-12891-2-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-SOP	320.00/2,000		
SN74HC240DW	296-8267-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.55	.44	.33
SN74HC240DWR	296-14843-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.47	.38	.29
SN74HC240DWR	296-14843-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	264.00/2,000		
SN74HC240N	296-1580-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.55	.44	.33
SN74HC240PWR	296-8269-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.48	.36	.27
SN74HC240PWR	296-8269-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	320.00/2,000		
SN74HC241DW	296-8270-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.55	.44	.33
SN74HC241N	296-8271-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.56	.42	.32
SN74HC241PWR	296-19250-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.48	.36	.27
SN74HC241PWR	296-19250-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	320.00/2,000		
SN74HC244DBR	296-8273-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.60	.45	.34
SN74HC244DBR	296-8273-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	400.00/2,000		
SN74HC244DW	296-1196-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.46	.37	.28
SN74HC244DWR	296-1196-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.46	.37	.28
SN74HC244DWR	296-1196-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	254.00/2,000		
SN74HC244MDWREP	296-18125-1-ND	Tri-State Octal Buffer/Line Driver ***NEW!***	20-SOP	2.10	1.68	1.26
SN74HC244MDWREP	296-18125-2-ND	Tri-State Octal Buffer/Line Driver ***NEW!***	20-SOP	2184.00/2,000		
SN74HC244N	296-1582-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.56	.42	.32
SN74HC244NSR	296-8274-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.60	.45	.34
SN74HC244NSR	296-8274-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	400.00/2,000		
SN74HC244PWR	296-8276-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.47	.38	.29
SN74HC244PWR	296-8276-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	264.00/2,000		
SN74HC244QDWREP	296-22300-1-ND	Tri-State Octal Buffer/Line Driver ***NEW!***	20-SOP	1.35	1.13	.90
SN74HC244QDWREP	296-22300-2-ND	Tri-State Octal Buffer/Line Driver ***NEW!***	20-SOP	1198.00/2,000		
SN74HC244QPWREP	296-22301-1-ND	Tri-St. Octal Buffer/Line Driver ***NEW!***	20-TSSOP	1.35	1.13	.90
SN74HC244QPWREP	296-22301-2-ND	Tri-St. Octal Buffer/Line Driver ***NEW!***	20-TSSOP	1198.00/2,000		
SN74HC245DBR	296-8277-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.60	.45	.34
SN74HC245DBR	296-8277-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	400.00/2,000		
SN74HC245DW	296-1197-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.53	.42	.32
SN74HC245DWR	296-1197-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.53	.42	.32
SN74HC245DWR	296-1197-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	294.00/2,000		
SN74HC245N	296-1584-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.48	.37	.28
SN74HC245NSR	296-8278-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.60	.45	.34
SN74HC245NSR	296-8278-2-ND	Tri-State Octal Bus Transceiver	20-SOP	400.00/2,000		
SN74HC245PWR	296-8279-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.50	.40	.30
SN74HC245PWR	296-8279-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	278.00/2,000		
SN74HC251D	296-8280-5-ND	Tri-State Data Selector/Mux	16-SOIC	.47	.38	.29
SN74HC251DBR	296-12894-1-ND	Tri-State Data Selector/Mux	16-SSOP	.53	.42	.32
SN74HC251DBR	296-12894-2-ND	Tri-State Data Selector/Mux	16-SSOP	294.00/2,000		
SN74HC251DR	296-14844-1-ND	Tri-State Data Selector/Mux	16-SOIC	.47	.38	.29
SN74HC251DR	296-14844-2-ND	Tri-State Data Selector/Mux	16-SOIC	317.50/2,500		
SN74HC251N	296-1585-5-ND	Tri-State Data Selector/Mux	16-Dip	.53	.42	.32
SN74HC251NSR	296-13217-1-ND	Tri-State Data Selector/Mux	16-SOP	.48	.36	.27
SN74HC251NSR	296-13217-2-ND	Tri-State Data Selector/Mux	16-SOP	320.00/2,000		
SN74HC253D	296-8281-5-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOIC	.48	.36	.27
SN74HC253DBR	296-8282-1-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SSOP	.48	.36	.27
SN74HC253DBR	296-8282-2-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SSOP	320.00/2,000		
SN74HC253DR	296-14845-1-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOIC	.48	.36	.27
SN74HC253DR	296-14845-2-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOIC	390.00/2,500		
SN74HC253N	296-8283-5-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-Dip	.48	.36	.27
SN74HC253QDREP	296-22302-1-ND	Tri-State Dual 4-1 Line Data Selector/Mux ***NEW!***	16-SOIC	1.08	.90	.72
SN74HC253QDREP	296-22302-2-ND	Tri-State Dual 4-1 Line Data Selector/Mux ***NEW!***	16-SOIC	1170.00/2,500		
SN74HC257D	296-8284-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	.53	.42	.32
SN74HC257DR	296-14846-1-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	.53	.42	.32
SN74HC257DR	296-14846-2-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	355.00/2,500		
SN74HC257N	296-8285-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-Dip	.48	.36	.27
SN74HC257NSR	296-8286-1-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOP	.48	.36	.27
SN74HC257NSR	296-8286-2-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOP	320.00/2,000		
SN74HC257PWR	296-8287-1-ND	Tri-State Quad 2-1 Line Data Selector/Mux	16-TSSOP	.53	.42	.32
SN74HC257PWR	296-8287-2-ND	Tri-State Quad 2-1 Line Data Selector/Mux	16-TSSOP	294.00/2,000		
SN74HC259D	296-8290-5-ND	8-Bit Addressable Latch	16-SOIC	.47	.38	.29
SN74HC259DR	296-14847-1-ND	8-Bit Addressable Latch	16-SOIC	.47	.38	.29
SN74HC259DR	296-14847-2-ND	8-Bit Addressable Latch	16-SOIC	317.50/2,500		
SN74HC259N	296-8291-5-ND	8-Bit Addressable Latch	16-Dip	.48	.36	.27
SN74HC259NSR	296-12895-1-ND	8-Bit Addressable Latch	16-SOP	.48	.36	.27
SN74HC259NSR	296-12895-2-ND	8-Bit Addressable Latch	16-SOP	320.00/2,000		
SN74HC259PWR	296-8292-1-ND	8-Bit Addressable Latch	16-TSSOP	.53	.42	.32
SN74HC259PWR	296-8292-2-ND	8-Bit Addressable Latch	16-TSSOP	294.00/2,000		
SN74HC266D	296-8293-5-ND	Quad 2-Input Exclusive NOR Gate with Open-Drain Output	14-SOIC	.53	.42	.32
SN74HC266N	296-8294-5-ND	Quad 2-Input Exclusive NOR Gate with Open-Drain Output	14-Dip	.48	.36	.27
SN74HC273DBR	296-8295-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.55	.44	.33
SN74HC273DBR	296-8295-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	308.00/2,000		
SN74HC273DW	296-1198-5-ND	Octal D-Type Flip-Flop	20-SOIC	.47	.38	.29
SN74HC273DWR	296-1198-1-ND	Octal D-Type Flip-Flop	20-SOIC	.47	.38	.29
SN74HC273DWR	296-1198-2-ND	Octal D-Type Flip-Flop	20-SOIC	264.00/2,000		
SN74HC273N	296-1587-5-ND	Octal D-Type Flip-Flop	20-Dip	.55	.44	.33
SN74HC273NSR	296-8296-1-ND	Octal D-Type Flip-Flop with Clear	20-SOP	.48	.36	.27
SN74HC273NSR	296-8296-2-ND	Octal D-Type Flip-Flop with Clear	20-SOP	320.00/2,000		
SN74HC273PWR	296-8297-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.47	.38	.29
SN74HC273PWR	296-8297-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	264.00/2,000		
SN74HC365D	296-8303-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC365N	296-8304-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.52	.39	.30
SN74HC365NSR	296-12897-1-ND	Tri-State Hex Buffer/Line Driver	16-SOP	.52	.39	.30
SN74HC365NSR	296-12897-2-ND	Tri-State Hex Buffer/Line Driver	16-SOP	346.00/2,000		
SN74HC367D	296-8305-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC367DR	296-14849-1-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC367DR	296-14849-2-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	422.50/2,500		
SN74HC367N	296-8306-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.56	.42	.32
SN74HC367NSR	296-12898-1-ND	Tri-State Hex Buffer/Line Driver	16-SOP	.52	.39	.30
SN74HC367NSR	296-12898-2-ND	Tri-State Hex Buffer/Line Driver	16-SOP	346.00/2,000		
SN74HC368D	296-8307-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC368DR	296-14850-1-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC368DR	296-14850-2-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	422.50/2,500		
SN74HC368N	296-8308-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.47	.38	.29
SN74HC373DBR	296-8309-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.60	.45	.34
SN74HC373DBR	296-8309-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	400.00/2,000		
SN74HC373DW	296-1200-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.50	.40	.30
SN74HC373DWR	296-1200-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.50	.40	.30
SN74HC373DWR	296-1200-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	278.00/2,000		
SN74HC373N	296-1591-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.58	.47	.35
SN74HC373NSR	296-8310-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.60	.45	.34
SN74HC373NSR	296-8310-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	400.00/2,000		
SN74HC373PWR	296-8311-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.48	.36	.27
SN74HC373PWR	296-8311-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	320.00/2,000		
SN74HC374DBR	296-8312-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74HC374DBR	296-8312-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	400.00/2,000		
SN74HC374DW	296-1201-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.53	.42	.32
SN74HC374DWR	296-1201-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.53	.42	.32
SN74HC374DWR	296-1201-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	294.00/2,000		
SN74HC374N	296-1592-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.48	.37	.28
SN74HC374NSR	296-8313-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	.60	.45	.34
SN74HC374NSR	296-8313-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	400.00/2,000		
SN74HC374PWR	296-8314-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
SN74HC374PWR	296-8314-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	320.00/2,000		
SN74HC377DW	296-9818-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOIC	.48	.36	.27
SN74HC377DWR	296-9818-1-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOP	.48	.36	.27
SN74HC377DWR	296-9818-2-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOP	320.00/2,000		
SN74HC377N	296-8316-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-Dip	.53	.40	.30
SN74HC393D	296-8317-5-ND	Dual 4-Bit Binary Counter	14-SOIC	.50	.41	.28
SN74HC393DBR	296-8318-1-ND	Dual 4-Bit Binary Counter	14-SSOP	.50	.40	.30
SN74HC393DBR	296-8318-2-ND	Dual 4-Bit Binary Counter	14-SSOP	280.00/2,000		
SN74HC393DR	296-14851-1-ND	Dual 4-Bit Binary Counter	14-SOIC	.50	.41	.28
SN74HC393DR	296-14851-2-ND	Dual 4-Bit Binary Counter	14-SOIC	327.50/2,500		
SN74HC393N	296-8319-5-ND	Dual 4-Bit Binary Counter	14-Dip	.44	.36	.27
SN74HC540DWR	296-8333-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.47	.38	.29
SN74HC540DWR	296-8333-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	264.00/2,000		
SN74HC540N	296-8334-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.57	.43	.33
SN74HC541DBR	296-14855-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.56	.42	.32
SN74HC541DBR	296-14855-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	372.00/2,000		
SN74HC541DW	296-1202-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.47	.38	.29
SN74HC541DWR	296-1202-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.47	.38	.29
SN74HC541DWR	296-1202-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	264.00/2,000		
SN74HC541N	296-1594-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.55	.44	.33
SN74HC541NSR	296-13218-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.56	.42	.32
SN74HC541NSR	296-13218-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	372.00/2,000		
SN74HC541PWR	296-8335-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.47	.38	.29
SN74HC541PWR	296-8335-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	264.00/2,000		
SN74HC573ADBR	296-23257-1-ND	Tri-St. Octal Transparent D-Type Latch ***NEW!***	20-SSOP	.60	.45	.34
SN74HC573ADBR	296-23257-2-ND	Tri-St. Octal Transparent D-Type Latch ***NEW!***	20-SSOP	400.00/2,000		
SN74HC573ADW	296-1203-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.55	.44	.33
SN74HC573ADWR	296-1203-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.55	.44	.33
SN74HC573ADWR	296-1203-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	308.00/2,000		
SN74HC573AN	296-1596-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.51	.39	.29
SN74HC573APWR	296-8338-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.55	.44	.33
SN74HC573APWR	296-8338-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	308.00/2,000		
SN74HC574DW	296-1597-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74HC574DWR	296-1597-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74HC574DWR	296-1597-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	320.00/2,000		
SN74HC574N	296-1598-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.60	.45	.34

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74HC574PWR	296-8339-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
SN74HC574PWR	296-8339-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	320.00/2,000		
SN74HC590AD	296-8340-5-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.60	.45	.34
SN74HC590ADR	296-17132-1-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.60	.45	.34
SN74HC590ADR	296-17132-2-ND	Tri-State 8-Bit Binary Counter	16-SOIC	487.50/2,500		
SN74HC590ADW	296-8341-5-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.60	.45	.34
SN74HC590ADWR	296-14856-1-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.60	.45	.34
SN74HC590ADWR	296-14856-2-ND	Tri-State 8-Bit Binary Counter	16-SOIC	400.00/2,000		
SN74HC590AN	296-1599-5-ND	Tri-State 8-Bit Binary Counter	16-Dip	.66	.50	.38
SN74HC594DW	296-8342-5-ND	8-Bit Shift Register with Output Register	16-SOIC	.64	.48	.36
SN74HC594N	296-8343-5-ND	8-Bit Shift Register with Output Register	16-Dip	.75	.63	.50
SN74HC595D	296-8344-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.55	.44	.33
SN74HC595DR	296-14857-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.55	.44	.33
SN74HC595DR	296-14857-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	372.50/2,500		
SN74HC595DW	296-8345-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.48	.36	.27
SN74HC595DWR	296-14858-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.48	.36	.27
SN74HC595DWR	296-14858-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	320.00/2,000		
SN74HC595N	296-1600-5-ND	Tri-State 8-Bit Shift Register	16-Dip	.62	.47	.35
SN74HC595PWR	296-23258-1-ND	Tri-State 8-Bit Shift Register ***NEW!***	16-TSSOP	.48	.36	.27
SN74HC595PWR	296-23258-2-ND	Tri-State 8-Bit Shift Register ***NEW!***	16-TSSOP	320.00/2,000		
SN74HC623DW	296-8346-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	5.20	4.16	3.51
SN74HC623N	296-8347-5-ND	Tri-State Octal Bus Transceiver	20-Dip	5.20	4.16	3.51
SN74HC640DW	296-8348-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74HC640N	296-8349-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.35	1.13	.90
SN74HC645DW	296-8350-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.20	1.00	.80
SN74HC645N	296-8351-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.20	1.00	.80
SN74HC646DW	296-8352-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.20	1.00	.80
SN74HC646NT	296-8353-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.20	1.00	.80
SN74HC652DW	296-8354-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.50	1.20	.90
SN74HC652NT	296-8355-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.88	1.50	1.13
SN74HC682DWR	296-8356-1-ND	8-Bit Magnitude Comparator	20-SOIC	3.31	2.65	2.06
SN74HC682DWR	296-8356-2-ND	8-Bit Magnitude Comparator	20-SOIC	3748.00/2,000		
SN74HC682N	296-8357-5-ND	8-Bit Magnitude Comparator	20-Dip	3.31	2.65	2.06
SN74HC684DW	296-8358-5-ND	8-Bit Magnitude Comparator	20-SOIC	5.80	4.64	3.92
SN74HC684N	296-8359-5-ND	8-Bit Magnitude Comparator	20-Dip	6.00	4.80	4.05
SN74HC688DW	296-8360-5-ND	8-Bit Identity Comparator	20-SOIC	.81	.68	.54
SN74HC688N	296-8361-5-ND	8-Bit Identity Comparator	20-Dip	.81	.68	.54
SN74HC688PWR	296-8362-1-ND	8-Bit Identity Comparator	20-TSSOP	.81	.68	.54
SN74HC688PWR	296-8362-2-ND	8-Bit Identity Comparator	20-TSSOP	718.00/2,000		
SN74HC4020D	296-8320-5-ND	14-Bit Async. Binary Counter	16-SOIC	.54	.41	.31
SN74HC4020N	296-8321-5-ND	14-Bit Async. Binary Counter	16-Dip	.54	.41	.31
SN74HC4040D	296-8322-5-ND	12-Bit Async. Binary Counter	16-SOIC	.54	.41	.31
SN74HC4040DBR	296-8323-1-ND	12-Bit Async. Binary Counter	16-SSOP	.54	.41	.31
SN74HC4040DBR	296-8323-2-ND	12-Bit Async. Binary Counter	16-SSOP	360.00/2,000		
SN74HC4040DR	296-14852-1-ND	12-Bit Async. Binary Counter	16-SOIC	.54	.41	.31
SN74HC4040DR	296-14852-2-ND	12-Bit Async. Binary Counter	16-SOIC	440.00/2,500		
SN74HC4040N	296-8324-5-ND	12-Bit Async. Binary Counter	16-Dip	.55	.44	.33
SN74HC4040PWR	296-8325-1-ND	12-Bit Async. Binary Counter	16-TSSOP	.47	.38	.29
SN74HC4040PWR	296-8325-2-ND	12-Bit Async. Binary Counter	16-TSSOP	264.00/2,000		
SN74HC4060D	296-8326-5-ND	14-Stage Async. Binary Counter and Oscillator	16-SOIC	.56	.42	.32
SN74HC4060DR	296-14853-1-ND	14-Stage Async. Binary Counter and Oscillator	16-SOIC	.53	.42	.32
SN74HC4060DR	296-14853-2-ND	14-Stage Async. Binary Counter and Oscillator	16-SOIC	355.00/2,500		
SN74HC4060N	296-8209-5-ND	14-Stage Async. Binary Counter and Oscillator	16-Dip	.56	.42	.32
SN74HC4066D	296-8327-5-ND	Quad Bilateral Analog Switch	14-SOIC	.50	.40	.30
SN74HC4066DBR	296-8328-1-ND	Quad Bilateral Analog Switch	14-SSOP	.50	.40	.30
SN74HC4066DBR	296-8328-2-ND	Quad Bilateral Analog Switch	14-SSOP	280.00/2,000		
SN74HC4066DR	296-14854-1-ND	Quad Bilateral Analog Switch	14-SOIC	.50	.41	.28
SN74HC4066DR	296-14854-2-ND	Quad Bilateral Analog Switch	14-SOIC	327.50/2,500		
SN74HC4066N	296-8329-5-ND	Quad Bilateral Analog Switch	14-Dip	.50	.40	.30
SN74HC4066PWR	296-8330-1-ND	Quad Bilateral Analog Switch	14-TSSOP	.47	.38	.26
SN74HC4066PWR	296-8330-2-ND	Quad Bilateral Analog Switch	14-TSSOP	260.00/2,000		
SN74HC4851DGVR	296-19251-1-ND	8-Channel Analog Mux/Demux	16-TVSOP	.70	.53	.40
SN74HC4851DGVR	296-19251-2-ND	8-Channel Analog Mux/Demux	16-TVSOP	468.00/2,000		
SN74HC4851DR	296-15740-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.64	.48	.36
SN74HC4851DR	296-15740-2-ND	8-Channel Analog Mux/Demux	16-SOIC	520.00/2,500		
SN74HC4851N	296-15741-5-ND	8-Channel Analog Mux/Demux	16-Dip	.64	.48	.36
SN74HC4851PWR	296-16983-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.64	.48	.36
SN74HC4851PWR	296-16983-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	426.00/2,000		
SN74HC4851QDRQ1	296-17266-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.75	.57	.43
SN74HC4851QDRQ1	296-17266-2-ND	8-Channel Analog Mux/Demux	16-SOIC	610.00/2,500		
SN74HC4851QPWRQ1	296-19551-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.75	.57	.43
SN74HC4851QPWRQ1	296-19551-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	500.00/2,000		
SN74HC4852DGVR	296-19252-1-ND	Dual 4-1 Channel Analog Mux/Demux	16-TVSOP	.64	.48	.36
SN74HC4852DGVR	296-19252-2-ND	Dual 4-1 Channel Analog Mux/Demux	16-TVSOP	426.00/2,000		
SN74HC4852DR	296-19253-1-ND	Dual 4-1 Channel Analog Mux/Demux	16-SOIC	.64	.48	.36
SN74HC4852DR	296-19253-2-ND	Dual 4-1 Channel Analog Mux/Demux	16-SOIC	520.00/2,500		
SN74HC4852N	296-17301-5-ND	Dual 4-1 Channel Analog Mux/Demux	16-Dip	.64	.48	.36
SN74HC4852PWR	296-19254-1-ND	Dual 4-1 Channel Analog Mux/Demux	16-TSSOP	.64	.48	.36
SN74HC4852PWR	296-19254-2-ND	Dual 4-1 Channel Analog Mux/Demux	16-TSSOP	426.00/2,000		
SN74HC7001D	296-8363-5-ND	Quad AND Gate w/Schmitt-Trigger Input	14-SOIC	1.41	1.18	.94
SN74HC7001N	296-8364-5-ND	Quad AND Gate w/Schmitt-Trigger Input	14-Dip	1.41	1.18	.94
SN74HC7002D	296-8365-5-ND	Quad NOR Gate w/Schmitt-Trigger Input	14-SOIC	2.00	1.60	1.20
SN74HC7002N	296-8366-5-ND	Quad NOR Gate w/Schmitt-Trigger Input	14-Dip	2.00	1.60	1.20
SN74HC7032D	296-8367-5-ND	Quad OR Gate w/Schmitt-Trigger Input	14-SOIC	2.25	1.80	1.40
SN74HC7032N	296-8368-5-ND	Quad OR Gate w/Schmitt-Trigger Input	14-Dip	2.25	1.80	1.40

HCT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CD74HCT00E	296-2081-5-ND	Quad 2-Input NAND Gate	14-Dip	.64	.48	.36
CD74HCT00M	296-9244-5-ND	Quad 2-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HCT00M96	296-14542-1-ND	Quad 2-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HCT00M96	296-14542-2-ND	Quad 2-Input NAND Gate	14-SOIC	390.00/2,500		
CD74HCT02E	296-2082-5-ND	Quad 2-Input NOR Gate	14-Dip	.64	.48	.36
CD74HCT02M	296-12825-5-ND	Quad 2-Input NOR Gate	14-SOIC	.48	.36	.27
CD74HCT03E	296-2134-5-ND	Quad 2-Input NAND Gate with OD	14-Dip	.53	.42	.32
CD74HCT03M96	296-9245-1-ND	Quad 2-Input NAND Gate with OD	14-SOIC	.46	.37	.26
CD74HCT03M96	296-9245-2-ND	Quad 2-Input NAND Gate with OD	14-SOIC	297.50/2,500		
CD74HCT04E	296-2083-5-ND	Hex Inverter/Buffer	14-Dip	.64	.48	.36
CD74HCT04M	296-9246-5-ND	Hex Inverter/Buffer	14-SOIC	.48	.36	.27
CD74HCT04M96	296-14543-1-ND	Hex Inverter/Buffer	14-SOIC	.48	.36	.27
CD74HCT04M96	296-14543-2-ND	Hex Inverter/Buffer	14-SOIC	390.00/2,500		
CD74HCT04PWR	296-17123-1-ND	Hex Inverter/Buffer	14-TSSOP	.48	.36	.27
CD74HCT04PWR	296-17123-2-ND	Hex Inverter/Buffer	14-TSSOP	320.00/2,000		
CD74HCT08E	296-2084-5-ND	Quad 2-Input AND Gate	14-Dip	.64	.48	.36
CD74HCT08M	296-12828-5-ND	Quad 2-Input AND Gate	14-SOIC	.48	.36	.27
CD74HCT08M96	296-14544-1-ND	Quad 2-Input AND Gate	14-SOIC	.48	.36	.27
CD74HCT08M96	296-14544-2-ND	Quad 2-Input AND Gate	14-SOIC	390.00/2,500		
CD74HCT10E	296-2086-5-ND	Triple 3-Input NAND Gate	14-Dip	.64	.48	.36
CD74HCT10M	296-9247-5-ND	Triple 3-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HCT10M96	296-14545-1-ND	Triple 3-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HCT10M96	296-14545-2-ND	Triple 3-Input NAND Gate	14-SOIC	390.00/2,500		
CD74HCT11E	296-2087-5-ND	Triple 3-Input AND Gate	14-Dip	.53	.42	.32
CD74HCT11M96	296-9249-1-ND	Triple 3-Input AND Gate	14-SOIC	.45	.36	.27
CD74HCT11M96	296-9249-2-ND	Triple 3-Input AND Gate	14-SOIC	305.00/2,500		
CD74HCT14E	296-2093-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.42	.34	.25
CD74HCT14M	296-9253-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.47	.38	.26
CD74HCT14M96	296-14548-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.47	.38	.26
CD74HCT14M96	296-14548-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	305.00/2,500		
CD74HCT21E	296-9262-5-ND	Dual 4-Input AND Gate	14-Dip	.53	.42	.32
CD74HCT27M96	296-23210-1-ND	High Speed CMOS Logic Triple 3-Input NOR Gate ***NEW!***	14-SOIC	.48	.36	.27
CD74HCT27M96	296-23210-2-ND	High Speed CMOS Logic Triple 3-Input NOR Gate ***NEW!***	14-SOIC	390.00/2,500		
CD74HCT30E	296-2111-5-ND	8-Input NAND Gate	14-Dip	.53	.42	.32
CD74HCT30M	296-9267-5-ND	8-Input NAND Gate	14-SOIC	.46	.37	.26
CD74HCT32E	296-2112-5-ND	Quad 2-Input OR Gate	14-Dip	.64	.48	.36
CD74HCT32M	296-12842-5-ND	Quad 2-Input OR Gate	14-SOIC	.48	.36	.27
CD74HCT32M96	296-14555-1-ND	Quad 2-Input OR Gate	14-SOIC	.48	.36	.27
CD74HCT32M96	296-14555-2-ND	Quad 2-Input OR Gate	14-SOIC	390.00/2,500		
CD74HCT73E	296-9297-5-ND	Dual Neg-Edge-Trig. J-K Flip-Flop with Reset	14-Dip	.80	.60	.45
CD74HCT73M	296-9298-5-ND	Dual Neg-Edge-Trig. J-K Flip-Flop with Reset	14-SOP	.80	.60	.45
CD74HCT74E	296-2132-5-ND	Dual D-Type Flip-Flop with Set and Reset	14-Dip	.64	.48	.36
CD74HCT74M	296-9299-5-ND	Dual Pos-Edge-Trig. D-Type Flip-Flop with Set and Reset	14-SOIC	.48	.36	.27
CD74HCT74M96	296-14561-1-ND	Dual Pos-Edge-Trig. D-Type Flip-Flop with Set and Reset	14-SOIC	.48	.36	.27
CD74HCT74M96	296-14561-2-ND	Dual Pos-Edge-Trig. D-Type Flip-Flop with Set and Reset	14-SOIC	390.00/2,500		
CD74HCT75E	296-2136-5-ND	Dual 2-Bit Bistable Transparent Latch	16-Dip	.81	.68	.54
CD74HCT86E	296-2133-5-ND	Quad HS 2-Input Exclusive OR Gate	14-Dip	.72	.54	.41
CD74HCT86M	296-8201-5-ND	Quad HS 2-Input Exclusive OR Gate	14-SOIC	.64	.48	.36
CD74HCT86M96	296-8201-1-ND	Quad HS 2-Input Exclusive OR Gate	14-SOIC	.47	.38	.26
CD74HCT86M96	296-8201-2-ND	Quad HS 2-Input Exclusive OR Gate	14-SOIC	305.00/2,500		
CD74HCT109E	296-2085-5-ND	Dual J-K Flip-Flop with Set and Reset	16-Dip	.80	.60	.45
CD74HCT112E	296-9248-5-ND	Dual Neg-Edge-Trig J-K Flip-Flop with Set and Reset	16-Dip	.48	.36	.27
CD74HCT123E	296-2088-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-Dip	.53	.40	.30
CD74HCT123M	296-9250-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOIC	.48	.36	.27
CD74HCT125E	296-2089-5-ND	Tri-State Quad Buffer	14-Dip	.72	.54	.41
CD74HCT125M96	296-12829-1-ND	Tri-State Quad Buffer	14-SOIC	.64	.48	.36
CD74HCT125M96	296-12829-2-ND	Tri-State Quad Buffer	14-SOIC	520.00/2,500		
CD74HCT126E	296-9251-5-ND	Tri-State Quad Buffer	14-Dip	.53	.40	.30
CD74HCT126M	296-12830-5-ND	Tri-State Quad Buffer	14-SOIC	.48	.36	.27
CD74HCT126M96	296-14546-1-ND	Tri-State Quad Buffer	14-SOIC	.48	.36	.27
CD74HCT126M96	296-14546-2-ND	Tri-State Quad Buffer	14-SOIC	390.00/2,500		
CD74HCT132E	296-2090-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.53	.40	.30
CD74HCT132M96	296-12831-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.48	.36	.27
CD74HCT132M96	296-12831-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	390.00/2,500		
CD74HCT138E	296-2091-5-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-Dip	.72	.54	.41
CD74HCT138M	296-12832-5-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-SOIC	.64	.48	.36
CD74HCT138M96	296-14547-1-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-SOIC	.64	.48	.36
CD74HCT138M96	296-14547-2-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-SOIC	520.00/2,500		
CD74HCT139E	296-2092-5-ND	Dual 2-of-4 Line Decoder/Demux	16-Dip	.72	.54	.41
CD74HCT147E	296-9252-5-ND	10-4 Line Priority Encoder	16-Dip	.60	.45	.34
CD74HCT151M	296-9254-5-ND	8-Input Multiplexer	16-SOIC	.48	.36	.27
CD74HCT153E	296-2094-5-ND	Dual 4-Input Multiplexer	16-Dip	.48	.36	.27
CD74HCT153M	296-9255-5-ND	Dual 4-Input Multiplexer	16-SOIC	.48	.36	.27
CD74HCT157E	296-2095-5-ND	Quad 2-Input Multiplexer	16-Dip	.72	.54	.41
CD74HCT157M96	296-23209-1-ND	Quad 2-Input Multiplexer ***NEW!***	16-SOIC	.64	.48	.36
CD74HCT157M96	296-23209-2-ND	Quad 2-Input Multiplexer ***NEW!***	16-SOIC	520.00/2,500		
CD74HCT161E	296-2096-5-ND	Sync. 4-Bit Binary Counter, Async. Reset	16-Dip	.53	.40	.30
CD74HCT161M	296-9256-5-ND	Sync. 4-Bit Binary Counter, Async. Reset	16-SOIC	.48	.36	.27
CD74HCT163E	296-12833-5-ND	Presettable Sync. Counter	16-Dip	.53	.40	.30
CD74HCT164E	296-2097-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.53	.40	.30
CD74HCT164M	296-9257-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.48	.36	.27
CD74HCT164M96	296-14549-1-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.49	.39	.30
CD74HCT164M96	296-14549-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	327.50/2,500		
CD74HCT165E	296-2098-5-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.53	.40	.30
CD74HCT165M	296-9258-5-ND	Asynchronous 8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.48	.36	.27
CD74HCT165M96	296-14551-1-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC	.48	.36	.27
CD74HCT165M96	296-14551-2-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC	390.00/2,500		
CD74HCT166E	296-2099-5-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.53	.40	.30
CD74HCT166M	296-9259-5-ND	Synchronous 8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.48	.36	.27
CD74HCT174E	296-2100-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.53	.40	.30
CD74HCT174M	296-9260-5-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	.48	.36	.27
CD74HCT174M96	296-12836-1-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	.48	.36	.27
CD74HCT174M96	296-12836-2-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	390.00/2,500		
CD74HCT175E	296-2101-5-ND	Quad D-Type Flip-Flop with Reset	16-Dip	.53	.40	.30
CD74HCT175M96	296-12837-1-ND	Quad D-Type Flip-Flop with Reset	16-SOIC	.48	.36	.27
CD74HCT175M96	296-12837-2-ND	Quad D-Type Flip-Flop with Reset	16-SOIC	390.00/2,500		
CD74HCT191M	296-9261-5-ND	Presettable Synchronous 4-Bit Binary Up/Down Counter	16-SOIC	.72	.54	.41
CD74HCT221M96	296-9263-1-ND	Dual Mono Multivibrator with Reset	16-SOIC	.72	.54	.41
CD74HCT221M96	296-9263-2-ND	Dual Mono Multivibrator with Reset	16-SOIC	585.00/2,500		
CD74HCT238M96	296-17124-5-ND	HS CMOS 3-to-8 Line Decoder/Demux Inverter/Noninverting	16-SOIC	.60	.45	.34

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HCT240E	296-2103-5-ND	Tri-St. Inverting Octal Buffer Line Driver	20-Dip	.96	.72	.54
CD74HCT240M	296-9264-5-ND	Tri-St. Inverting Octal Buffer Line Driver	20-SOIC	.76	.57	.43
CD74HCT241M96	296-12838-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
CD74HCT241M96	296-12838-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	400.00/2,000		
CD74HCT243E	296-2145-5-ND	Tri-State HS CMOS Logic Quad Bus Transceiver	14-Dip	.96	.80	.64
CD74HCT244E	296-2104-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.96	.72	.54
CD74HCT244M	296-12839-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.76	.57	.43
CD74HCT244M96	296-14552-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.76	.57	.43
CD74HCT244M96	296-14552-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	506.00/2,000		
CD74HCT245E	296-2105-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.96	.72	.54
CD74HCT245M	296-12840-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.76	.57	.43
CD74HCT245M96	296-14553-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.76	.57	.43
CD74HCT245M96	296-14553-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	506.00/2,000		
SN74HCT245NSR	296-15849-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.60	.45	.34
SN74HCT245NSR	296-15849-2-ND	Tri-State Octal Bus Transceiver	20-SOP	400.00/2,000		
CD74HCT251E	296-2106-5-ND	Tri-State 8-Input Multiplexer	16-Dip	.66	.50	.38
CD74HCT253E	296-2107-5-ND	Tri-State Dual 4-Input Multiplexer	16-Dip	.60	.45	.34
CD74HCT253M	296-9265-5-ND	Tri-State Dual 4-Input Multiplexer	16-SOIC	.60	.45	.34
CD74HCT257E	296-2108-5-ND	Tri-St. Quad 2-Input Mux, Non-Invert Out	16-Dip	.96	.72	.54
CD74HCT258E	296-2146-5-ND	Tri-State Inverting High Speed CMOS Logic Quad 2-Input Multiplexer	16-Dip	.52	.39	.30
CD74HCT259E	296-2109-5-ND	8-Bit Addressable Latch	16-Dip	.62	.47	.35
CD74HCT273E	296-2110-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.96	.72	.54
CD74HCT273M	296-12841-5-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.76	.57	.43
CD74HCT273M96	296-14554-1-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.76	.57	.43
CD74HCT273M96	296-14554-2-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	506.00/2,000		
CD74HCT280E	296-2147-5-ND	High Speed CMOS Logic 9-Bit Odd/Even Parity Generator/Checker	14-Dip	.64	.48	.36
CD74HCT299M	296-9266-5-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	.72	.54	.41
CD74HCT356E	296-2148-5-ND	Tri-State High Speed CMOS Logic 8-Input Multiplexer/Register	20-Dip	1.32	1.10	.88
CD74HCT365E	296-2149-5-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Invert	16-Dip	.64	.48	.36
CD74HCT365M96	296-15733-1-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Invert	16-SOIC	.48	.37	.28
CD74HCT365M96	296-15733-2-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Invert	16-SOIC	392.50/2,500		
CD74HCT367E	296-2113-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.64	.48	.36
CD74HCT368M	296-9268-5-ND	Tri-State Inverting Hex Buffer/Line Driver	16-SOIC	.64	.48	.36
CD74HCT373E	296-2114-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.96	.72	.54
CD74HCT373M	296-12843-5-ND	Tri-State Octal Transparent D-Type Latch	20-SOIC	.76	.57	.43
CD74HCT374E	296-2115-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.51	.39	.29
CD74HCT374M96	296-9269-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.76	.57	.43
CD74HCT374M96	296-9269-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	506.00/2,000		
CD74HCT377M	296-9427-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOIC	.76	.57	.43
CD74HCT390M	296-9270-5-ND	Dual Decade Ripple Counter	16-SOIC	.52	.39	.30
CD74HCT393E	296-2116-5-ND	Dual 4-Stage Binary Counter	14-Dip	.52	.39	.30
CD74HCT393M	296-9271-5-ND	Dual 4-Stage Binary Counter	14-SOIC	.52	.39	.30
CD74HCT393M96	296-14556-1-ND	Dual 4-Stage Binary Counter	14-SOIC	.50	.40	.30
CD74HCT393M96	296-14556-2-ND	Dual 4-Stage Binary Counter	14-SOIC	335.00/2,500		
CD74HCT540E	296-2126-5-ND	Tri-State Inverting Octal Buffer Line Driver	20-Dip	.96	.72	.54
CD74HCT541E	296-2127-5-ND	Tri-State Octal Buffer Line Driver	20-Dip	.96	.72	.54
CD74HCT541M	296-9288-5-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOIC	.76	.57	.43
CD74HCT541M96	296-9288-1-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOIC	.76	.57	.43
CD74HCT541M96	296-9288-2-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOIC	506.00/2,000		
CD74HCT563M	296-9289-5-ND	Tri-St. Octal Transparent Inverting Latch	20-SOIC	.60	.45	.34
CD74HCT564M	296-9290-5-ND	Tri-St. Inverting Octal D-Type Flip-Flop	20-SOIC	1.35	1.13	.90
CD74HCT573E	296-2128-5-ND	Tri-State Octal Transparent Latch	20-Dip	.96	.72	.54
CD74HCT573DBR	296-17125-1-ND	Tri-State Octal Transparent Latch	20-SSOP	.76	.57	.43
CD74HCT573DBR	296-17125-2-ND	Tri-State Octal Transparent Latch	20-SSOP	506.00/2,000		
CD74HCT573M96	296-9291-1-ND	Tri-State Octal Transparent Latch	20-SOIC	.76	.57	.43
CD74HCT573M96	296-9291-2-ND	Tri-State Octal Transparent Latch	20-SOIC	506.00/2,000		
CD74HCT574E	296-2129-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.96	.72	.54
CD74HCT574M96	296-9292-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.76	.57	.43
CD74HCT574M96	296-9292-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	506.00/2,000		
CD74HCT574PWR	296-17126-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.76	.57	.43
CD74HCT574PWR	296-17126-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	506.00/2,000		
CD74HCT574QM96EP	296-22106-1-ND	Tri-State Octal D-Type F/F ***NEW!***	20-SOIC	1.43	1.14	.86
CD74HCT574QM96EP	296-22106-2-ND	Tri-State Octal D-Type F/F ***NEW!***	20-SOIC	1482.00/2,000		
CD74HCT574QPWREP	296-22107-1-ND	Tri-State Octal D-Type F/F ***NEW!***	20-TSSOP	1.43	1.14	.86
CD74HCT574QPWREP	296-22107-2-ND	Tri-State Octal D-Type F/F ***NEW!***	20-TSSOP	1482.00/2,000		
CD74HCT597E	296-2130-5-ND	8-Bit Shift Register with Input Storage	16-Dip	.96	.79	.58
CD74HCT597M96	296-12844-1-ND	8-Bit Shift Register with Input Storage	16-SOIC	1.05	.88	.70
CD74HCT597M96	296-12844-2-ND	8-Bit Shift Register with Input Storage	16-SOIC	1137.50/2,500		
CD74HCT646M96	296-9293-1-ND	Tri-State Octal D-Type Flip-Flop	24-SOIC	2.00	1.60	1.20
CD74HCT646M96	296-9293-2-ND	Tri-State Octal D-Type Flip-Flop	24-SOIC	2080.00/2,000		
CD74HCT670M	296-9294-5-ND	4-by-4 Register File	16-SOIC	4.73	3.78	2.94
CD74HCT688E	296-2131-5-ND	8-Bit Magnitude Comparator	20-Dip	.88	.66	.50
CD74HCT688M	296-9295-5-ND	8-Bit Magnitude Comparator	20-SOIC	.80	.60	.45
CD74HCT4020M	296-9273-5-ND	14-Stage Binary Counter	16-SOIC	.48	.36	.27
CD74HCT4024M	296-9274-5-ND	7-Stage Binary Ripple Counter	14-SOIC	.56	.42	.32
CD74HCT4040E	296-2118-5-ND	12-Bit Binary Counter	16-Dip	.70	.53	.40
CD74HCT4040M96	296-14558-1-ND	12-Stage Binary Counter	16-SOIC	.64	.48	.36
CD74HCT4040M96	296-14558-2-ND	12-Stage Binary Counter	16-SOIC	520.00/2,500		
CD74HCT4046AM	296-9275-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.60	.45	.34
CD74HCT4046AM96	296-14559-1-ND	Phase-Locked-Loop with VCO	16-SOIC	.60	.45	.34
CD74HCT4046AM96	296-14559-2-ND	Phase-Locked-Loop with VCO	16-SOIC	487.50/2,500		
CD74HCT4051E	296-2119-5-ND	8-Channel Analog Mux/Demux	16-Dip	.52	.39	.30
CD74HCT4051M	296-9276-5-ND	8-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HCT4051M96	296-14560-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HCT4051M96	296-14560-2-ND	8-Channel Analog Mux/Demux	16-SOIC	337.50/2,500		
CD74HCT4051QM96Q1	296-17264-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.59	.48	.36
CD74HCT4051QM96Q1	296-17264-2-ND	8-Channel Analog Mux/Demux	16-SOIC	397.50/2,500		
CD74HCT4052E	296-2120-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.56	.42	.32
CD74HCT4052M96	296-9277-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.52	.39	.30
CD74HCT4052M96	296-9277-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	422.50/2,500		
CD74HCT4053E	296-2121-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.55	.44	.33
CD74HCT4053M	296-9278-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HCT4053PWR	296-9279-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.50	.40	.30
CD74HCT4053PWR	296-9279-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	280.00/2,000		
CD74HCT4060M	296-9280-5-ND	14-Stage Binary Counter with Oscillator	16-SOIC	.68	.51	.39
CD74HCT4066M96	296-9281-1-ND	Quad Bilateral Switch	14-SOIC	.50	.41	.28
CD74HCT4066M96	296-9281-2-ND	Quad Bilateral Switch	14-SOIC	327.50/2,500		
CD74HCT4066E	296-2122-5-ND	Quad Bilateral Switch	14-Dip	.68	.51	.39
CD74HCT4067M	296-23078-ND	High Speed CMOS Logic 16-Ch. Analog Mux/Demux ***NEW!***	24-SOIC	.80	.60	.45
CD74HCT4094E	296-2123-5-ND	Tri-State, 8-Stage Shift-and-Store Bus Register	16-Dip	.68	.51	.39
CD74HCT4094M	296-14291-5-ND	Tri-State, 8-Stage Shift-and-Store Bus Register	16-SOIC	.68	.51	.39
CD74HCT4316E	296-2124-5-ND	Quad Analog Switch	16-Dip	.92	.69	.52
CD74HCT4351E	296-2158-5-ND	HS CMOS Logic Analog Mux/Demux	20-Dip	.76	.57	.43
CD74HCT4511E	296-9282-5-ND	BCD-to-7 Segment Latch/Decoder/Driver	16-Dip	.76	.57	.43
CD74HCT4514E	296-9283-5-ND	4-to-16 Line Decoder/Demux with Input Latch	24-Dip	2.25	1.88	1.13
CD74HCT4520E	296-9284-5-ND	Dual Binary Up-Counter	16-Dip	.56	.42	.32
CD74HCT4520M	296-9285-5-ND	Dual Binary Up-Counter	16-SOIC	.56	.42	.32
CD74HCT4538E	296-2125-5-ND	Dual Precision Monostable Multivibrator	16-Dip	.72	.54	.41
CD74HCT4538M	296-9286-5-ND	Dual Precision Monostable Multivibrator	16-SOIC	.72	.54	.41
CD74HCT7046AM	296-9296-5-ND	PLL with VCO and Lock Detector	16-SOIC	1.85	1.48	1.11
CD74HCT40103M	296-9272-5-ND	8-Stage Sync. Down Counter	16-SOIC	.81	.68	.54
CD74HCT40105E	296-2117-5-ND	4 Bits x 16 Words FIFO Register	16-Dip	.78	.65	.52
SN74HCT00D	296-8377-5-ND	Quad 2-Input NAND Gate	14-SOIC	.39	.32	.22
SN74HCT00DR	296-14860-1-ND	Quad 2-Input NAND Gate	14-SOIC	.39	.32	.22
SN74HCT00DR	296-14860-2-ND	Quad 2-Input NAND Gate	14-SOIC	255.00/2,500		
SN74HCT00N	296-1603-5-ND	Quad 2-Input NAND Gate	14-Dip	.47	.38	.26
SN74HCT00PWR	296-8378-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.39	.32	.22
SN74HCT00PWR	296-8378-2-ND	Quad 2-Input NAND Gate	14-TSSOP	216.00/2,000		
SN74HCT02D	296-8379-5-ND	Quad 2-Input NOR Gate	14-SOIC	.39	.32	.22
SN74HCT02DR	296-14861-1-ND	Quad 2-Input NOR Gate	14-SOIC	.39	.32	.22
SN74HCT02DR	296-14861-2-ND	Quad 2-Input NOR Gate	14-SOIC	255.00/2,500		
SN74HCT02N	296-8380-5-ND	Quad 2-Input NOR Gate	14-Dip	.50	.40	.30
SN74HCT04D	296-1205-5-ND	Hex Inverter	14-SOIC	.39	.32	.22
SN74HCT04DR	296-1205-1-ND	Hex Inverter	14-SOIC	.39	.32	.22
SN74HCT04DR	296-1205-2-ND	Hex Inverter	14-SOIC	255.00/2,500		
SN74HCT04IDREP	296-22303-1-ND	Hex Inverter ***NEW!***	14-SOIC	.64	.48	.36
SN74HCT04IDREP	296-22303-2-ND	Hex Inverter ***NEW!***	14-SOIC	520.00/2,500		
SN74HCT04N	296-1605-5-ND	Hex Inverter	14-Dip	.47	.38	.26
SN74HCT04PWR	296-8382-1-ND	Hex Inverter	14-TSSOP	.39	.32	.22
SN74HCT04PWR	296-8382-2-ND	Hex Inverter	14-TSSOP	216.00/2,000		
SN74HCT08D	296-8383-5-ND	Quad 2-Input AND Gate	14-SOIC	.39	.32	.22
SN74HCT08DBR	296-8384-1-ND	Quad 2-Input AND Gate	14-SSOP	.46	.37	.26
SN74HCT08DBR	296-8384-2-ND	Quad 2-Input AND Gate	14-SSOP	252.00/2,000		
SN74HCT08DR	296-14862-1-ND	Quad 2-Input AND Gate	14-SOIC	.39	.32	.22
SN74HCT08DR	296-14862-2-ND	Quad 2-Input AND Gate	14-SOIC	255.00/2,500		
SN74HCT08N	296-1606-5-ND	Quad 2-Input AND Gate	14-Dip	.47	.38	.26
SN74HCT08PWR	296-8385-1-ND	Quad 2-Input AND Gate	14-TSSOP	.39	.32	.22
SN74HCT08PWR	296-8385-2-ND	Quad 2-Input AND Gate	14-TSSOP	216.00/2,000		
SN74HCT14D	296-8391-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.39	.32	.22
SN74HCT14DBR	296-8392-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.46	.37	.26
SN74HCT14DBR	296-8392-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	252.00/2,000		
SN74HCT14DGVR	296-8393-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.50	.41	.28
SN74HCT14DGVR	296-8393-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	278.00/2,000		
SN74HCT14DR	296-14864-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.39	.32	.22
SN74HCT14DR	296-14864-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	255.00/2,500		
SN74HCT14N	296-8394-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.47	.38	.26
SN74HCT14PWR	296-8395-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.39	.32	.22
SN74HCT14PWR	296-8395-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	216.00/2,000		
SN74HCT32D	296-1614-5-ND	Quad 2-Input OR Gate	14-SOIC	.39	.32	.22
SN74HCT32DBR	296-8410-1-ND	Quad 2-Input OR Gate	14-SSOP	.46	.37	.26
SN74HCT32DBR	296-8410-2-ND	Quad 2-Input OR Gate	14-SSOP	252.00/2,000		
SN74HCT32DR	296-14868-1-ND	Quad 2-Input OR Gate	14-SOIC	.39	.32	.22
SN74HCT32DR	296-14868-2-ND	Quad 2-Input OR Gate	14-SOIC	255.00/2,500		
SN74HCT32N	296-1615-5-ND	Quad 2-Input OR Gate	14-Dip	.47	.38	.26
SN74HCT32PWR	296-8411-1-ND	Quad 2-Input OR Gate	14-TSSOP	.39	.32	.22
SN74HCT32PWR	296-8411-2-ND	Quad 2-Input OR Gate	14-TSSOP	216.00/2,000		
SN74HCT74D	296-1211-5-ND	Dual D-Type F/F with Clear and Preset	14-SOIC	.39	.32	.22
SN74HCT74DR	296-1211-1-ND	Dual D-Type F/F with Clear and Preset	14-SOIC	.39	.32	.22
SN74HCT74DR	296-1211-2-ND	Dual D-Type F/F with Clear and Preset	14-SOIC	255.00/2,500		
SN74HCT74N	296-1625-5-ND	Dual D-Type Flip-Flop	14-Dip	.50	.41	.28
SN74HCT74PWR	296-8429-1-ND	Dual D-Type F/F with Clear and Preset	14-TSSOP	.46	.37	.26
SN74HCT74PWR	296-8429-2-ND	Dual D-Type F/F with Clear and Preset	14-TSSOP	252.00/2,000		
SN74HCT125D	296-1206-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.43	.35	.24
SN74HCT125DR	296-1206-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.43	.35	.24
SN74HCT125DR	296-1206-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	280.00/2,500		
SN74HCT125N	296-8386-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.50	.40	.30
SN74HCT138D	296-8387-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.42	.34	.25
SN74HCT138DR	296-14863-1-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.42	.34	.25
SN74HCT138DR	296-14863-2-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	280.00/2,500		
SN74HCT138N	296-1608-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.50	.40	.30
SN74HCT138PWR	296-8388-1-ND	3-8 Line Decoder/Demultiplexer	14-TSSOP	.45	.36	.27
SN74HCT138PWR	296-8388-2-ND	3-8 Line Decoder/Demultiplexer	14-TSSOP	252.00/2,000		
SN74HCT139D	296-8389-5-ND	Dual 2-to-4 Line Decoder/Demux	16-SOIC	.45	.36	.27
SN74HCT139N	296-8390-5-ND	Dual 2-to-4 Line Decoder/Demux	16-Dip	.50	.40	.30
SN74HCT139PWR	296-11999-1-ND	Dual 2-to-4 Line Decoder/Demux	16-TSSOP	.45	.36	.27
SN74HCT139PWR	296-11999-2-ND	Dual 2-to-4 Line Decoder/Demux	16-TSSOP	252.00/2,000		
SN74HCT157D	296-8396-5-ND	Quad 2-to-1 Line Data Selector/Mux	16-SOIC	.45	.36	.27
SN74HCT157N	296-8397-5-ND	Quad 2-to-1 Line Data Selector/Mux	16-Dip	.56	.42	.32
SN74HCT240DW	296-8398-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.55	.44	.33
SN74HCT240DWR	296-14865-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.55	.44	.33
SN74HCT240DWR	296-14865-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	308.00/2,000		
SN74HCT240N	296-8399-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.56	.42	.32
SN74HCT240NSR	296-12899-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.60	.45	.34
SN74HCT240NSR	296-12899-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	400.00/2,000		
SN74HCT240PWR	296-13631-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.55	.44	.33
SN74HCT240PWR	296-13631-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	308.00/2,000		
SN74HCT244DBR	296-8400-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.60	.45	.34
SN74HCT244DBR	296-8400-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	400.00/2,000		
SN74HCT244DW	296-1207-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.40	.30
SN74HCT244DWR	296-1207-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.40	.30
SN74HCT244DWR	296-1207-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	278.00/2,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HCT244N	296-1610-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.55	.44	.33
SN74HCT244NSR	296-8401-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.60	.45	.34
SN74HCT244NSR	296-8401-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	400.00/2,000		
SN74HCT244PWR	296-8402-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.50	.40	.30
SN74HCT244PWR	296-8402-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	278.00/2,000		
SN74HCT244QPWREP	296-22304-1-ND	Tri-St. Octal Buffer/Line Driver ***NEW!***	20-TSSOP	1.35	1.13	.90
SN74HCT244QPWREP	296-22304-2-ND	Tri-St. Octal Buffer/Line Driver ***NEW!***	20-TSSOP	1198.00/2,000		
SN74HCT245DBR	296-8403-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.60	.45	.34
SN74HCT245DBR	296-8403-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	400.00/2,000		
SN74HCT245DW	296-1208-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.53	.42	.32
SN74HCT245DWR	296-1208-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.53	.42	.32
SN74HCT245DWR	296-1208-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	294.00/2,000		
SN74HCT245N	296-1612-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.48	.37	.28
SN74HCT245PWR	296-8404-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.53	.42	.32
SN74HCT245PWR	296-8404-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	294.00/2,000		
SN74HCT257DR	296-14866-1-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	.55	.44	.33
SN74HCT257DR	296-14866-2-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	372.50/2,500		
SN74HCT257N	296-8406-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-Dip	.56	.42	.32
SN74HCT273DBR	296-8407-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.56	.42	.32
SN74HCT273DBR	296-8407-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	372.00/2,000		
SN74HCT273DW	296-8408-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.47	.38	.29
SN74HCT273DWR	296-14867-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.47	.38	.29
SN74HCT273DWR	296-14867-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	264.00/2,000		
SN74HCT273N	296-1613-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.55	.44	.33
SN74HCT273PWR	296-8409-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.44	.36	.27
SN74HCT273PWR	296-8409-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	246.00/2,000		
SN74HCT373DW	296-8412-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.55	.44	.33
SN74HCT373DWR	296-8412-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.55	.44	.33
SN74HCT373DWR	296-8412-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	308.00/2,000		
SN74HCT373N	296-1616-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.53	.40	.30
SN74HCT373NSR	296-8413-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.66	.50	.38
SN74HCT373NSR	296-8413-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	438.00/2,000		
SN74HCT373PWR	296-8414-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.55	.44	.33
SN74HCT373PWR	296-8414-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	308.00/2,000		
SN74HCT374DBR	296-8415-1-ND	Tri-State Octal Transparent D-Type F/F	20-SSOP	.60	.45	.34
SN74HCT374DBR	296-8415-2-ND	Tri-State Octal Transparent D-Type F/F	20-SSOP	400.00/2,000		
SN74HCT374DW	296-1209-5-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	.58	.47	.35
SN74HCT374DWR	296-1209-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	.58	.47	.35
SN74HCT374DWR	296-1209-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	324.00/2,000		
SN74HCT374N	296-1617-5-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-Dip	.53	.40	.30
SN74HCT374PWR	296-23259-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop ***NEW!***	20-TSSOP	.48	.36	.27
SN74HCT374PWR	296-23259-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop ***NEW!***	20-TSSOP	320.00/2,000		
SN74HCT374PWT	296-23260-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop ***NEW!***	20-TSSOP	.90	.75	.60
SN74HCT374PWT	296-23260-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop ***NEW!***	20-TSSOP	112.50/250		
SN74HCT377DW	296-8416-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOIC	.52	.39	.30
SN74HCT377N	296-8417-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-Dip	.56	.42	.32
SN74HCT540DW	296-8418-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.40	.30
SN74HCT540DWR	296-14869-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.40	.30
SN74HCT540DWR	296-14869-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	278.00/2,000		
SN74HCT540N	296-8419-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.56	.42	.32
SN74HCT541DW	296-1618-5-ND	Octal Buffer/Line Driver	20-SOIC	.49	.39	.30
SN74HCT541DWR	296-14870-1-ND	Octal Buffer/Line Driver	20-SOIC	.50	.40	.30
SN74HCT541DWR	296-14870-2-ND	Octal Buffer/Line Driver	20-SOIC	278.00/2,000		
SN74HCT541N	296-1619-5-ND	Octal Buffer/Line Driver	20-Dip	.48	.37	.28
SN74HCT573DBR	296-8420-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.60	.45	.34
SN74HCT573DBR	296-8420-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	400.00/2,000		
SN74HCT573DW	296-1210-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.58	.47	.35
SN74HCT573DWR	296-1210-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.58	.47	.35
SN74HCT573DWR	296-1210-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	324.00/2,000		
SN74HCT573N	296-1621-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.55	.42	.32
SN74HCT574DW	296-1622-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.52	.39	.30
SN74HCT574DWR	296-14871-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.52	.39	.30
SN74HCT574DWR	296-14871-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	346.00/2,000		
SN74HCT574N	296-1623-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.57	.43	.33
SN74HCT574PWR	296-8421-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.51	.39	.29
SN74HCT574PWR	296-8421-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	338.00/2,000		
SN74HCT623DW	296-8422-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	5.27	4.22	3.28
SN74HCT645DW	296-8423-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.20	1.00	.80
SN74HCT645N	296-8424-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.20	1.00	.80
SN74HCT646DW	296-8425-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.26	1.05	.84
SN74HCT646NT	296-8426-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.38	1.15	.92
SN74HCT652DW	296-1624-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.50	1.20	.90
SN74HCT652DWR	296-1624-1-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.50	1.20	.90
SN74HCT652DWR	296-1624-2-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1560.00/2,000		
SN74HCT652NT	296-8427-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.50	1.20	.90

HCU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HCU04M	296-9432-5-ND	Hex Inverter/Buffer	14-SOIC	.48	.36	.27
SN74HCU04D	296-9819-5-ND	Hex Inverter	14-SOIC	.39	.32	.22
SN74HCU04DR	296-14872-1-ND	Hex Inverter	14-SOIC	.39	.32	.22
SN74HCU04DR	296-14872-2-ND	Hex Inverter	14-SOIC	255.00/2,500		
SN74HCU04N	296-9820-5-ND	Hex Inverter	14-Dip	.50	.40	.30
SN74HCU04PWR	296-9821-1-ND	Hex Inverter	14-TSSOP	.39	.32	.22
SN74HCU04PWR	296-9821-2-ND	Hex Inverter	14-TSSOP	216.00/2,000		

HSTL Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HSTL16918DGGR	296-9823-1-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch	48-TSSOP	4.50	3.60	2.80
SN74HSTL16918DGGR	296-9823-2-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch	48-TSSOP	5100.00/2,000		
SN74HSTL16919DGGR	296-13219-1-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch with Input Pullup Resistors	48-TSSOP	7.50	6.00	5.07
SN74HSTL16919DGGR	296-13219-2-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch with Input Pullup Resistors	48-TSSOP	9376.00/2,000		
SN74HSTL162822DGGR	296-9822-1-ND	14-to-28 Bit HSTL-to-LVTTL Memory Address Latch	64-TSSOP	8.00	6.40	5.40
SN74HSTL162822DGGR	296-9822-2-ND	14-to-28 Bit HSTL-to-LVTTL Memory Address Latch	64-TSSOP	10000.00/2,000		

LS Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LS00DR	296-14873-1-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.56	.42	.32
SN74LS00DR	296-14873-2-ND	Quad 2-Input Positive NAND Gate	14-SOIC	455.00/2,500		
SN74LS00N	296-1626-5-ND	Quad 2-Input Positive NAND Gate	14-Dip	.56	.42	.32
SN74LS00NSR	296-3616-2-ND	Quad 2-Input Positive NAND Gate	14-SOP	372.00/2,000		
SN74LS00PSR	296-13220-1-ND	Dual 2-Input Positive NAND Gate	8-SOP	.56	.42	.32
SN74LS00PSR	296-13220-2-ND	Dual 2-Input Positive NAND Gate	8-SOP	372.00/2,000		
SN74LS02DR	296-14874-1-ND	Quad 2-Input Positive NOR Gate	14-SOIC	.56	.42	.32
SN74LS02DR	296-14874-2-ND	Quad 2-Input Positive NOR Gate	14-SOIC	455.00/2,500		
SN74LS02N	296-1627-5-ND	Quad 2-Input NOR Gate	14-Dip	.56	.42	.32
SN74LS02NSR	296-3618-2-ND	Quad 2-Input NOR Gate	14-SOP	372.00/2,000		
SN74LS03N	296-3620-5-ND	Quad 2-Input NAND Gate with OC Output	14-Dip	.96	.72	.54
SN74LS04D	296-1628-5-ND	Hex Inverter	14-SOIC	.56	.42	.32
SN74LS04DR	296-14875-1-ND	Hex Inverter	14-SOIC	.56	.42	.32
SN74LS04DR	296-14875-2-ND	Hex Inverter	14-SOIC	455.00/2,500		
SN74LS04N	296-1629-5-ND	Hex Inverter	14-Dip	.56	.42	.32
SN74LS05D	296-1630-5-ND	Hex Inverter with OC Output	14-SOIC	.56	.42	.32
SN74LS05DBR	296-3622-1-ND	Hex Inverter with OC Output	14-SSOP	.56	.42	.32
SN74LS05DBR	296-3622-2-ND	Hex Inverter with OC Output	14-SSOP	372.00/2,000		
SN74LS05N	296-1631-5-ND	Hex Inverter with OC Output	14-Dip	.56	.42	.32
SN74LS05DR	296-1630-1-ND	Hex Inverter with OC Output	14-SOIC	.56	.42	.32
SN74LS05DR	296-1630-2-ND	Hex Inverter with OC Output	14-SOIC	455.00/2,500		
SN74LS06DBR	296-3624-1-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-SSOP	.90	.75	.60
SN74LS06DBR	296-3624-2-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-SSOP	798.00/2,000		
SN74LS06DR	296-14876-1-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-SOIC	.90	.75	.60
SN74LS06DR	296-14876-2-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-SOIC	975.00/2,500		
SN74LS06N	296-15069-5-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-Dip	.90	.75	.60
SN74LS07D	296-3626-5-ND	Hex Buffer/Driver with HV Output	14-SOP	.90	.75	.60
SN74LS07DBR	296-3627-1-ND	Hex Buffer/Driver with HV Output	14-SSOP	.90	.75	.60
SN74LS07DBR	296-3627-2-ND	Hex Buffer/Driver with HV Output	14-SSOP	798.00/2,000		
SN74LS07DR	296-14877-1-ND	Hex Buffer/Driver with HV Output	14-SOIC	.99	.83	.66
SN74LS07DR	296-14877-2-ND	Hex Buffer/Driver with HV Output	14-SOIC	1072.50/2,500		
SN74LS07N	296-14878-5-ND	Hex Buffer/Driver with HV Output	14-Dip	.90	.75	.60
SN74LS08D	296-1632-5-ND	Quad 2-Input AND Gate	14-SOIC	.56	.42	.32
SN74LS08DR	296-14879-1-ND	Quad 2-Input AND Gate	14-SOIC	.56	.42	.32
SN74LS08DR	296-14879-2-ND	Quad 2-Input AND Gate	14-SOIC	455.00/2,500		
SN74LS08N	296-1633-5-ND	Quad 2-Input AND Gate	14-Dip	.56	.42	.32
SN74LS09DR	296-14880-1-ND	Quad 2-Input AND Gate with OC Output	14-SOIC	.56	.42	.32
SN74LS09DR	296-14880-2-ND	Quad 2-Input AND Gate with OC Output	14-SOIC	455.00/2,500		
SN74LS09N	296-3631-5-ND	Quad 2-Input AND Gate with OC Output	14-Dip	.56	.42	.32
SN74LS10N	296-1634-5-ND	Triple 3-Input NAND Gate	14-Dip	.68	.51	.39
SN74LS11N	296-3638-5-ND	Triple 3-Input Positive AND Gate	14-Dip	.68	.51	.39
SN74LS14D	296-1212-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.48	.36	.27
SN74LS14DR	296-1212-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.48	.36	.27
SN74LS14DR	296-1212-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	390.00/2,500		
SN74LS14N	296-1643-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.56	.42	.32
SN74LS20N	296-3670-5-ND	Dual 4-Input NAND Gate	14-Dip	.96	.72	.54
SN74LS21N	296-3672-5-ND	Dual 4-Input AND Gate	14-Dip	.52	.39	.30
SN74LS27N	296-14890-5-ND	Triple 3-Input NOR Gate	14-Dip	.81	.68	.54
SN74LS30N	296-3693-5-ND	8-Input NAND Gate	14-Dip	.48	.36	.27
SN74LS32DR	296-14891-1-ND	Quad 2-Input OR Gate	14-SOIC	.52	.39	.30
SN74LS32DR	296-14891-2-ND	Quad 2-Input OR Gate	14-SOIC	422.50/2,500		
SN74LS32N	296-1658-5-ND	Quad 2-Input OR Gate	14-Dip	.52	.39	.30
SN74LS33DR	296-14892-1-ND	Quad 2-Input NOR Buffer w/OC Output	14-SOIC	1.26	1.05	.84
SN74LS33DR	296-14892-2-ND	Quad 2-Input NOR Buffer w/OC Output	14-SOIC	1365.00/2,500		
SN74LS33N	296-3699-5-ND	Quad 2-Input NOR Buffer w/OC Output	14-Dip	1.26	1.05	.84
SN74LS38N	296-1664-5-ND	Quad 2-Input NAND Buffer	14-Dip	.88	.66	.50
SN74LS47N	296-3712-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	1.44	1.20	.96
SN74LS47NSR	296-13223-1-ND	BCD to 7-Segment Decoder/Driver	16-SOP	1.44	1.20	.96
SN74LS47NSR	296-13223-2-ND	BCD to 7-Segment Decoder/Driver	16-SOP	1276.00/2,000		
SN74LS74ADR	296-14899-1-ND	Dual D-Type Flip-Flop	14-SOIC	.52	.39	.30
SN74LS74ADR	296-14899-2-ND	Dual D-Type Flip-Flop	14-SOIC	422.50/2,500		
SN74LS74AN	296-1668-5-ND	Dual D-Type Flip-Flop	14-Dip	.52	.39	.30
SN74LS85N	296-14900-5-ND	4-Bit Magnitude Comparator	16-Dip	1.05	.88	.70
SN74LS86ADR	296-14901-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.52	.39	.30
SN74LS86ADR	296-14901-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	422.50/2,500		
SN74LS86AN	296-1669-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.52	.39	.30
SN74LS92D	296-3747-5-ND	Divide-by-Twelve Counter	14-SOIC	1.65	1.32	.99
SN74LS92NSR	296-13225-1-ND	Divide-by-Twelve Counter	14-SOP	1.65	1.32	.99
SN74LS92NSR	296-13225-2-ND	Divide-by-Twelve Counter	14-SOP	1716.00/2,000		
SN74LS93N	296-3750-5-ND	4-Bit Binary Counter	14-Dip	1.65	1.32	.99
SN74LS112AN	296-3637-5-ND	Dual J-K Negative-Edge-Triggered F/F	16-Dip	.68	.51	.39
SN74LS122N	296-3639-5-ND	Retriggerable Monostable Multivibrator	14-Dip	.90	.75	.60
SN74LS122NSR	296-13221-1-ND	Retriggerable Monostable Multivibrator	14-SOP	.90	.75	.60
SN74LS122NSR	296-13221-2-ND	Retriggerable Monostable Multivibrator	14-SOP	798.00/2,000		
SN74LS123D	296-1635-5-ND	Dual Monostable Multivibrator	16-SOIC	.72	.54	.41
SN74LS123DR	296-14881-1-ND	Dual Monostable Multivibrator	16-SOIC	.72	.54	.41
SN74LS123DR	296-14881-2-ND	Dual Monostable Multivibrator	16-SOIC	585.00/2,500		
SN74LS123N	296-1636-5-ND	Dual Monostable Multivibrator	16-Dip	.72	.54	.41
SN74LS125AD	296-1637-5-ND	Tri-State Quad Bus Buffer	14-SOIC	.72	.54	.41
SN74LS125ADR	296-1637-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.72	.54	.41
SN74LS125ADR	296-1637-2-ND	Tri-State Quad Bus Buffer	14-SOIC	585.00/2,500		
SN74LS125AN	296-1638-5-ND	Tri-State Quad Bus Buffer	14-Dip	.72	.54	.41
SN74LS126ADR	296-14882-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.72	.54	.41
SN74LS126ADR	296-14882-2-ND	Tri-State Quad Bus Buffer	14-SOIC	585.00/2,500		
SN74LS126AN	296-3643-5-ND	Tri-State Quad Bus Buffer	14-Dip	.72	.54	.41
SN74LS132N	296-3645-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.76	.57	.43
SN74LS136N	296-3647-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.90	.75	.60
SN74LS138DR	296-14883-1-ND	3-8 Line Decoder/Demux	16-SOIC	.72	.54	.41
SN74LS138DR	296-14883-2-ND	3-8 Line Decoder/Demux	16-SOIC	585.00/2,500		
SN74LS138N	296-1639-5-ND	3-8 Line Decoder/Demux	16-Dip	.72	.54	.41
SN74LS139AN	296-1640-5-ND	Dual 2-4 Line Decoder	16-Dip	.72	.54	.41
SN74LS145N	296-1641-5-ND	BCD-To-Decimal Decoder/Driver	16-Dip	.81	.68	.54
SN74LS148N	296-3651-5-ND	8-3 Line Priority Encoder	16-Dip	1.20	1.00	.80
SN74LS151N	296-1644-5-ND	8-1 Data Selector/Multiplexer	16-Dip	.88	.66	.50
SN74LS157DR	296-14884-1-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.68	.51	.39
SN74LS157DR	296-14884-2-ND	Quad 2-1 Data Selector/Mux	16-SOIC	552.50/2,500		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LS157N	296-1645-5-ND	Quad 2-1 Data Selector/Mux	16-Dip	.68	.51	.39
SN74LS161AN	296-1646-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.76	.57	.43
SN74LS161ANSR	296-3660-2-ND	4-Bit Synchronous Binary Counter	16-SOP	506.00/2,000		
SN74LS163AN	296-3661-5-ND	Sync. 4-Bit Binary Counter	16-Dip	.76	.57	.43
SN74LS164N	296-1647-5-ND	8-Bit Shift Register	14-Dip	.68	.51	.39
SN74LS165AN	296-14885-5-ND	Parallel Load 8-Bit Shift Register	16-Dip	.68	.51	.39
SN74LS175N	296-1648-5-ND	Quad D-Type Flip-Flop	16-Dip	.80	.60	.45
SN74LS191N	296-14886-5-ND	Sync. Up/Down Counter with Down/Up Mode Control	16-Dip	.81	.68	.54
SN74LS193N	296-1649-5-ND	4-Bit Up/Down Counter	16-Dip	.81	.68	.54
SN74LS221N	296-3674-5-ND	Dual Mono Multivibrator	16-Dip	.93	.78	.62
SN74LS240DW	296-1650-5-ND	Octal Buffer/Line Driver	20-SOIC	.84	.63	.48
SN74LS240DWR	296-1650-1-ND	Octal Buffer/Line Driver	20-SOIC	.84	.63	.48
SN74LS240DWR	296-1650-2-ND	Octal Buffer/Line Driver	20-SOIC	558.00/2,000		
SN74LS240N	296-1651-5-ND	Octal Buffer/Line Driver	20-Dip	.84	.63	.48
SN74LS241N	296-14887-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.84	.63	.48
SN74LS244DW	296-1213-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.88	.66	.50
SN74LS244DWR	296-1213-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.88	.66	.50
SN74LS244DWR	296-1213-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	586.00/2,000		
SN74LS244N	296-1653-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.88	.66	.50
SN74LS245DW	296-1214-5-ND	Octal Bus Transceiver	20-SOIC	.88	.66	.50
SN74LS245DWR	296-1214-1-ND	Octal Bus Transceiver	20-SOIC	.88	.66	.50
SN74LS245DWR	296-1214-2-ND	Octal Bus Transceiver	20-SOIC	586.00/2,000		
SN74LS245N	296-1655-5-ND	Octal Bus Transceiver	20-Dip	.88	.66	.50
SN74LS247D	296-3678-5-ND	BCD to 7-Segment Decoder/Driver	16-SOIC	1.44	1.20	.96
SN74LS247N	296-3679-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	1.44	1.20	.96
SN74LS251N	296-14888-5-ND	Tri-State 8-1 Data Selector/Mux	16-Dip	.72	.66	.50
SN74LS257BN	296-1656-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.88	.66	.50
SN74LS259BN	296-14889-5-ND	8-Bit Addressable Latch	16-Dip	.84	.70	.56
SN74LS266N	296-3681-5-ND	Quad 2-Input Exclusive NOR Gate with OC Output	14-Dip	.84	.70	.56
SN74LS273DWR	296-3682-1-ND	Octal D-Type Flip-Flop	20-SOIC	.84	.63	.48
SN74LS273DWR	296-3682-2-ND	Octal D-Type Flip-Flop	20-SOIC	558.00/2,000		
SN74LS273N	296-1657-5-ND	Octal D-Type Flip-Flop	20-Dip	.84	.63	.48
SN74LS279AN	296-3684-5-ND	Quad S-R Latch	16-Dip	.96	.80	.64
SN74LS279ANSR	296-13222-1-ND	Quad S-R Latch	16-SOP	.96	.80	.64
SN74LS279ANSR	296-13222-2-ND	Quad S-R Latch	16-SOP	852.00/2,000		
SN74LS280N	296-3687-5-ND	9-Bit Odd/Even Parity Generator/Checker	14-Dip	.96	.80	.64
SN74LS367AN	296-3701-5-ND	Tri-State Hex Bus Driver	16-Dip	.87	.73	.58
SN74LS368AN	296-3702-5-ND	6-Bit Buffer/Line Driver	16-Dip	.87	.73	.58
SN74LS373DW	296-1659-5-ND	Octal D-Type Latch	20-SOIC	.80	.60	.45
SN74LS373DWR	296-14893-1-ND	Octal D-Type Latch	20-SOIC	.80	.60	.45
SN74LS373DWR	296-14893-2-ND	Octal D-Type Latch	20-SOIC	532.00/2,000		
SN74LS373N	296-1660-5-ND	Octal D-Type Latch	20-Dip	.80	.60	.45
SN74LS374DW	296-1661-5-ND	Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LS374DWR	296-14894-1-ND	Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LS374DWR	296-14894-2-ND	Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74LS374N	296-1662-5-ND	Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
SN74LS377N	296-1663-5-ND	Octal D-Type Flip-Flop	20-Dip	1.11	.93	.74
SN74LS393N	296-1665-5-ND	Dual 4-Bit Binary Counter	14-Dip	.90	.75	.60
SN74LS399N	296-14895-5-ND	Quad 2-Input Mux with Storage	16-Dip	1.40	1.12	.84
SN74LS423N	296-3707-5-ND	Dual Retrig. Mono Multivibrator	16-Dip	1.75	1.40	1.05
SN74LS540N	296-3715-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	1.20	1.00	.80
SN74LS541DWR	296-3716-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.90	.75	.60
SN74LS541DWR	296-3716-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	798.00/2,000		
SN74LS541N	296-1666-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.90	.75	.60
SN74LS590N	296-3718-5-ND	8-Bit Binary Counter	16-Dip	6.62	5.30	4.47
SN74LS595DR	296-14896-1-ND	8-Bit Shift Register with Output Latch	16-SOIC	6.60	5.28	4.46
SN74LS595DR	296-14896-2-ND	8-Bit Shift Register with Output Latch	16-SOIC	10230.00/2,500		
SN74LS595N	296-15070-5-ND	8-Bit Shift Register with Output Latch	16-Dip	6.60	5.28	4.46
SN74LS640N	296-14897-5-ND	Octal Bus Transceiver	20-Dip	1.28	1.02	.77
SN74LS645-1NSR	296-13224-1-ND	Tri-State Octal Bus Transceiver	20-SOP	2.38	1.90	1.43
SN74LS645-1NSR	296-13224-2-ND	Tri-State Octal Bus Transceiver	20-SOP	2470.00/2,000		
SN74LS682N	296-14898-5-ND	8-Bit Magnitude/Identity Comparator	20-Dip	1.65	1.32	.99
SN74LS688N	296-1667-5-ND	8-Bit Magnitude Comparator	20-Dip	1.75	1.40	1.05

LV Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LV00AD	296-1670-5-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.49	.40	.27
SN74LV00ADR	296-1670-1-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.46	.37	.26
SN74LV00ADR	296-1670-2-ND	Quad 2-Input Positive NAND Gate	14-SOIC	297.50/2,500		
SN74LV00ADBR	296-3751-1-ND	Quad 2-Input Positive NAND Gate	14-SSOP	.46	.37	.26
SN74LV00ADBR	296-3751-2-ND	Quad 2-Input Positive NAND Gate	14-SSOP	252.00/2,000		
SN74LV00ADGVR	296-3752-1-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	.50	.41	.28
SN74LV00ADGVR	296-3752-2-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	278.00/2,000		
SN74LV00ANSR	296-13226-1-ND	Quad 2-Input Positive NAND Gate	14-SOP	.46	.37	.26
SN74LV00ANSR	296-13226-2-ND	Quad 2-Input Positive NAND Gate	14-SOP	252.00/2,000		
SN74LV00APWR	296-3753-1-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	.46	.37	.26
SN74LV00APWR	296-3753-2-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	252.00/2,000		
SN74LV00ARGYR	296-13927-1-ND	Quad 2-Input Positive NAND Gate	14-QFN	.50	.38	.29
SN74LV00ARGYR	296-13927-2-ND	Quad 2-Input Positive NAND Gate	14-QFN	166.00/1,000		
SN74LV02AD	296-1671-5-ND	Quad 2-Input NOR Gate	14-SOIC	.60	.45	.34
SN74LV02ADBR	296-3754-1-ND	Quad 2-Input NOR Gate	14-SSOP	.60	.45	.34
SN74LV02ADBR	296-3754-2-ND	Quad 2-Input NOR Gate	14-SSOP	400.00/2,000		
SN74LV02ADGVR	296-16706-1-ND	Quad 2-Input NOR Gate	14-TVSOP	.60	.45	.34
SN74LV02ADGVR	296-16706-2-ND	Quad 2-Input NOR Gate	14-TVSOP	400.00/2,000		
SN74LV02APWR	296-14902-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.60	.45	.34
SN74LV02APWR	296-14902-2-ND	Quad 2-Input NOR Gate	14-TSSOP	400.00/2,000		
SN74LV02ARGYR	296-13928-1-ND	Quad 2-Input NOR Gate	14-QFN	.50	.38	.29
SN74LV02ARGYR	296-13928-2-ND	Quad 2-Input NOR Gate	14-QFN	166.00/1,000		
SN74LV04AD	296-1672-5-ND	Hex Inverter	14-SOIC	.43	.35	.24
SN74LV04ADBR	296-3755-1-ND	Hex Inverter	14-SSOP	.46	.37	.26
SN74LV04ADBR	296-3755-2-ND	Hex Inverter	14-SSOP	252.00/2,000		
SN74LV04ADGVR	296-3756-1-ND	Hex Inverter	14-TVSOP	.50	.41	.28
SN74LV04ADGVR	296-3756-2-ND	Hex Inverter	14-TVSOP	278.00/2,000		
SN74LV04APWR	296-3757-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74LV04APWR	296-3757-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		
SN74LV04ARGYR	296-13929-1-ND	Hex Inverter	14-QFN	.50	.38	.29
SN74LV04ARGYR	296-13929-2-ND	Hex Inverter	14-QFN	166.00/1,000		
SN74LV04ATPWREP	296-22305-1-ND	Hex Inverter ***NEW!***	14-TSSOP	.84	.63	.48
SN74LV04ATPWREP	296-22305-2-ND	Hex Inverter ***NEW!***	14-TSSOP	558.00/2,000		
SN74LV05ADGVR	296-14313-1-ND	Hex Inverter with OD Output	14-TVSOP	.60	.45	.34
SN74LV05ADGVR	296-14313-2-ND	Hex Inverter with OD Output	14-TVSOP	400.00/2,000		
SN74LV05ADR	296-3758-1-ND	Hex Inverter with OD Output	14-SOIC	.60	.45	.34
SN74LV05ADR	296-3758-2-ND	Hex Inverter with OD Output	14-SOIC	487.50/2,500		
SN74LV05APWR	296-3759-1-ND	Hex Inverter with OD Output	14-TSSOP	.60	.45	.34
SN74LV05APWR	296-3759-2-ND	Hex Inverter with OD Output	14-TSSOP	400.00/2,000		
SN74LV06ADBR	296-3760-1-ND	Hex Inverter Buffer/Driver with OD Out	14-SSOP	.60	.45	.34
SN74LV06ADBR	296-3760-2-ND	Hex Inverter Buffer/Driver with OD Out	14-SSOP	400.00/2,000		
SN74LV06ADGVR	296-3761-1-ND	Hex Inverter Buffer/Driver with OD Out	14-TVSOP	.60	.45	.34
SN74LV06ADGVR	296-3761-2-ND	Hex Inverter Buffer/Driver with OD Out	14-TVSOP	400.00/2,000		
SN74LV06ADR	296-3762-1-ND	Hex Inverter Buffer/Driver with OD Out	14-SOIC	.60	.45	.34
SN74LV06ADR	296-3762-2-ND	Hex Inverter Buffer/Driver with OD Out	14-SOIC	487.50/2,500		
SN74LV06APWR	296-3763-1-ND	Hex Inverter Buffer/Driver with OD Out	14-TSSOP	.60	.45	.34
SN74LV06APWR	296-3763-2-ND	Hex Inverter Buffer/Driver with OD Out	14-TSSOP	400.00/2,000		
SN74LV07AD	296-3764-5-ND	Hex Buffer/Driver with OD Out	14-SOIC	.60	.45	.34
SN74LV07ADR	296-3764-1-ND	Hex Buffer/Driver with OD Out	14-SOIC	.60	.45	.34
SN74LV07ADR	296-3764-2-ND	Hex Buffer/Driver with OD Out	14-SOIC	487.50/2,500		
SN74LV07ADBR	296-3765-1-ND	Hex Buffer/Driver with OD Out	14-SSOP	.60	.45	.34
SN74LV07ADBR	296-3765-2-ND	Hex Buffer/Driver with OD Out	14-SSOP	400.00/2,000		
SN74LV07ADGVR	296-3766-1-ND	Hex Buffer/Driver with OD Out	14-TVSOP	.60	.45	.34
SN74LV07ADGVR	296-3766-2-ND	Hex Buffer/Driver with OD Out	14-TVSOP	400.00/2,000		
SN74LV07APWR	296-3767-1-ND	Hex Buffer/Driver with OD Out	14-TSSOP	.60	.45	.34
SN74LV07APWR	296-3767-2-ND	Hex Buffer/Driver with OD Out	14-TSSOP	400.00/2,000		
SN74LV08AD	296-1673-5-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
SN74LV08ADBR	296-3768-1-ND	Quad 2-Input AND Gate	14-SSOP	.46	.37	.26
SN74LV08ADBR	296-3768-2-ND	Quad 2-Input AND Gate	14-SSOP	252.00/2,000		
SN74LV08ADGVR	296-3769-1-ND	Quad 2-Input AND Gate	14-TVSOP	.50	.41	.28
SN74LV08ADGVR	296-3769-2-ND	Quad 2-Input AND Gate	14-TVSOP	278.00/2,000		
SN74LV08AMPWREP	296-19441-1-ND	Quad 2-Input AND Gate	14-TSSOP	1.26	1.05	.84
SN74LV08AMPWREP	296-19441-2-ND	Quad 2-Input AND Gate	14-TSSOP	1118.00/2,000		
SN74LV08APWR	296-3770-1-ND	Quad 2-Input AND Gate	14-TSSOP	.43	.35	.24
SN74LV08APWR	296-3770-2-ND	Quad 2-Input AND Gate	14-TSSOP	238.00/2,000		
SN74LV08ARGYR	296-13930-1-ND	Quad 2-Input AND Gate	14-QFN	.50	.38	.29
SN74LV08ARGYR	296-13930-2-ND	Quad 2-Input AND Gate	14-QFN	166.00/1,000		
SN74LV08ATPWREP	296-22306-1-ND	Quad 2-Input AND Gate ***NEW!***	14-TSSOP	.88	.66	.50
SN74LV08ATPWREP	296-22306-2-ND	Quad 2-Input AND Gate ***NEW!***	14-TSSOP	586.00/2,000		
SN74LV10AD	296-3771-5-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
SN74LV10ADR	296-3771-1-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
SN74LV10ADR	296-3771-2-ND	Triple 3-Input NAND Gate	14-SOIC	297.50/2,500		
SN74LV10ADBR	296-3772-1-ND	Triple 3-Input NAND Gate	14-SSOP	.46	.37	.26
SN74LV10ADBR	296-3772-2-ND	Triple 3-Input NAND Gate	14-SSOP	252.00/2,000		
SN74LV10ADGVR	296-3773-1-ND	Triple 3-Input NAND Gate	14-TVSOP	.50	.41	.28
SN74LV10ADGVR	296-3773-2-ND	Triple 3-Input NAND Gate	14-TVSOP	278.00/2,000		
SN74LV10APWR	296-9824-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.46	.37	.26
SN74LV10APWR	296-9824-2-ND	Triple 3-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74LV11ADBR	296-9825-1-ND	Triple 3-Input AND Gate	14-SSOP	.60	.45	.34
SN74LV11ADBR	296-9825-2-ND	Triple 3-Input AND Gate	14-SSOP	400.00/2,000		
SN74LV11ADGVR	296-9826-1-ND	Triple 3-Input AND Gate	14-TVSOP	.60	.45	.34
SN74LV11ADGVR	296-9826-2-ND	Triple 3-Input AND Gate	14-TVSOP	400.00/2,000		
SN74LV11ADR	296-9827-1-ND	Triple 3-Input AND Gate	14-SOIC	.60	.45	.34
SN74LV11ADR	296-9827-2-ND	Triple 3-Input AND Gate	14-SOIC	487.50/2,500		
SN74LV11APWR	296-9828-1-ND	Triple 3-Input AND Gate	14-TSSOP	.60	.45	.34
SN74LV11APWR	296-9828-2-ND	Triple 3-Input AND Gate	14-TSSOP	400.00/2,000		
SN74LV11ATPWREP	296-22307-1-ND	Triple 3-Input AND Gate ***NEW!***	14-TSSOP	1.35	1.13	.90
SN74LV11ATPWREP	296-22307-2-ND	Triple 3-Input AND Gate ***NEW!***	14-TSSOP	1198.00/2,000		
SN74LV14AD	296-1678-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74LV14ADR	296-1678-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74LV14ADR	296-1678-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	297.50/2,500		
SN74LV14ADBR	296-3783-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.46	.37	.26
SN74LV14ADBR	296-3783-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	252.00/2,000		
SN74LV14ADGVR	296-3784-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.50	.41	.28
SN74LV14ADGVR	296-3784-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	278.00/2,000		
SN74LV14AMDREP	296-22309-1-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-SOIC	1.17	.98	.78
SN74LV14AMDREP	296-22309-2-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-SOIC	1267.50/2,500		
SN74LV14AMPWREP	296-19442-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	1.26	1.05	.84
SN74LV14AMPWREP	296-19442-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	1118.00/2,000		
SN74LV14APWR	296-3785-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.43	.35	.24
SN74LV14APWR	296-3785-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	238.00/2,000		
SN74LV14ARGYR	296-13935-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.50	.38	.29
SN74LV14ARGYR	296-13935-2-ND	Hex Schmitt-Trigger Inverter	14-QFN	166.00/1,000		
SN74LV14ATPWREP	296-22310-1-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-TSSOP	.88	.66	.50
SN74LV14ATPWREP	296-22310-2-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-TSSOP	586.00/2,000		
SN74LV20AD	296-3794-5-ND	Dual 4-Input NAND Gate	14-SOIC	.80	.60	.45
SN74LV20ADR	296-3794-1-ND	Dual 4-Input NAND Gate	14-SOIC	.80	.60	.45
SN74LV20ADR	296-3794-2-ND	Dual 4-Input NAND Gate	14-SOIC	650.00/2,500		
SN74LV20ADBR	296-9838-1-ND	Dual 4-Input NAND Gate	14-SSOP	.80	.60	.45
SN74LV20ADBR	296-9838-2-ND	Dual 4-Input NAND Gate	14-SSOP	532.00/2,000		
SN74LV20ADGVR	296-3795-1-ND	Dual 4-Input NAND Gate	14-TVSOP	.80	.60	.45
SN74LV20ADGVR	296-3795-2-ND	Dual 4-Input NAND Gate	14-TVSOP	532.00/2,000		
SN74LV20APWR	296-3796-1-ND	Dual 4-Input NAND Gate	14-TSSOP	.80	.60	.45
SN74LV20APWR	296-3796-2-ND	Dual 4-Input NAND Gate	14-TSSOP	532.00/2,000		
SN74LV21ADR	296-9839-1-ND	Dual 4-Input AND Gate	14-SOIC	.80	.60	.45
SN74LV21ADR	296-9839-2-ND	Dual 4-Input AND Gate	14-SOIC	650.00/2,500		
SN74LV21ADBR	296-3798-1-ND	Dual 4-Input AND Gate	14-SSOP	.80	.60	.45
SN74LV21ADBR	296-3798-2-ND	Dual 4-Input AND Gate	14-SSOP	532.00/2,000		
SN74LV21ADGVR	296-3799-1-ND	Dual 4-Input AND Gate	14-TVSOP	.80	.60	.45
SN74LV21ADGVR	296-3799-2-ND	Dual 4-Input AND Gate	14-TVSOP	532.00/2,000		
SN74LV21APWR	296-3800-1-ND	Dual 4-Input AND Gate	14-TSSOP	.80	.60	.45
SN74LV21APWR	296-3800-2-ND	Dual 4-Input AND Gate	14-TSSOP	532.00/2,000		
SN74LV27ADR	296-3813-1-ND	Triple 3-Input NOR Gate	14-SOIC	.60	.45	.34
SN74LV27ADR	296-3813-2-ND	Triple 3-Input NOR Gate	14-SOIC	487.50/2,500		
SN74LV27ADBR	296-3814-1-ND	Triple 3-Input NOR Gate	14-SSOP	.60	.45	.34
SN74LV27ADBR	296-3814-2-ND	Triple 3-Input NOR Gate	14-SSOP	400.00/2,000		
SN74LV27ADGVR	296-3815-1-ND	Triple 3-Input NOR Gate	14-TVSOP	.60	.45	.34
SN74LV27ADGVR	296-3815-2-ND	Triple 3-Input NOR Gate	14-TVSOP	400.00/2,000		
SN74LV27APWR	296-3816-1-ND	Triple 3-Input NOR Gate	14-TSSOP	.60	.45	.34
SN74LV27APWR	296-3816-2-ND	Triple 3-Input NOR Gate	14-TSSOP	400.00/2,000		
SN74LV32AD	296-1686-5-ND	Quad 2-Input Positive OR Gate	14-SOIC	.46	.37	.26
SN74LV32ADBR	296-3817-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.46	.37	.26
SN74LV32ADBR	296-3817-2-ND	Quad 2-Input Positive OR Gate	14-SSOP	252.00/2,000		
SN74LV32ADGVR	296-3818-1-ND	Quad 2-Input Positive OR Gate	14-TVSOP	.50	.41	.28
SN74LV32ADGVR	296-3818-2-ND	Quad 2-Input Positive OR Gate	14-TVSOP	278.00/2,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LV32AMPWREP	296-19445-1-ND	Quad 2-Input Positive OR Gate ***NEW!***	14-TSSOP	1.26	1.05	.84
SN74LV32AMPWREP	296-19445-2-ND	Quad 2-Input Positive OR Gate ***NEW!***	14-TSSOP		1118.00/2,000	
SN74LV32ANSR	296-13232-1-ND	Quad 2-Input Positive OR Gate	14-SOP	.46	.37	.26
SN74LV32ANSR	296-13232-2-ND	Quad 2-Input Positive OR Gate	14-SOP		252.00/2,000	
SN74LV32APWR	296-3819-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.43	.35	.24
SN74LV32APWR	296-3819-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP		238.00/2,000	
SN74LV32ARGYR	296-13941-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.60	.45	.34
SN74LV32ARGYR	296-13941-2-ND	Quad 2-Input Positive OR Gate	14-QFN		200.00/1,000	
SN74LV32ATPWREP	296-22311-1-ND	Quad 2-Input Positive OR Gate ***NEW!***	14-TSSOP	.88	.66	.50
SN74LV32ATPWREP	296-22311-2-ND	Quad 2-Input Positive OR Gate ***NEW!***	14-TSSOP		586.00/2,000	
SN74LV74AD	296-1692-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14- SOIC	.50	.40	.30
SN74LV74ADBR	296-3844-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-SSOP	.50	.40	.30
SN74LV74ADBR	296-3844-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-SSOP		280.00/2,000	
SN74LV74ADGVR	296-9842-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-TVSOP	.55	.44	.33
SN74LV74ADGVR	296-9842-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-TVSOP		308.00/2,000	
SN74LV74AMPWREP	296-19446-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-TSSOP	1.40	1.12	.84
SN74LV74AMPWREP	296-19446-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-TSSOP		1456.00/2,000	
SN74LV74APWR	296-3846-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-TSSOP	.50	.40	.30
SN74LV74APWR	296-3846-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-TSSOP		280.00/2,000	
SN74LV74AQDRQ1	296-20685-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-SOIC	.59	.47	.36
SN74LV74AQDRQ1	296-20685-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-SOIC		395.00/2,500	
SN74LV74ARGYR	296-13953-1-ND	Dual D-Type Flip-Flop	14-QFN	.60	.45	.34
SN74LV74ARGYR	296-13953-2-ND	Dual D-Type Flip-Flop	14-QFN		200.00/1,000	
SN74LV86AD	296-1693-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.50	.40	.30
SN74LV86ADBR	296-14320-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.50	.40	.30
SN74LV86ADBR	296-14320-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP		280.00/2,000	
SN74LV86ADGVR	296-14321-1-ND	Quad 2-Input Exclusive OR Gate	14-TVSOP	.55	.44	.33
SN74LV86ADGVR	296-14321-2-ND	Quad 2-Input Exclusive OR Gate	14-TVSOP		308.00/2,000	
SN74LV86APWR	296-14322-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.50	.40	.30
SN74LV86APWR	296-14322-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP		280.00/2,000	
SN74LV86ATPWREP	296-22321-1-ND	Quad 2-In. Exclusive OR Gate ***NEW!***	14-TSSOP	.90	.75	.60
SN74LV86ATPWREP	296-22321-2-ND	Quad 2-In. Exclusive OR Gate ***NEW!***	14-TSSOP		798.00/2,000	
SN74LV123ADGVR	296-12991-1-ND	Dual Retrig. Monostable Multivibrator	16-TVSOP	.48	.36	.27
SN74LV123ADGVR	296-12991-2-ND	Dual Retrig. Monostable Multivibrator	16-TVSOP		320.00/2,000	
SN74LV123ADR	296-9829-1-ND	Dual Retrig. Monostable Multivibrator	16-SOIC	.48	.36	.27
SN74LV123ADR	296-9829-2-ND	Dual Retrig. Monostable Multivibrator	16-SOIC		390.00/2,500	
SN74LV123APWR	296-3774-1-ND	Dual Retrig. Monostable Multivibrator	16-TSSOP	.48	.36	.27
SN74LV123APWR	296-3774-2-ND	Dual Retrig. Monostable Multivibrator	16-TSSOP		320.00/2,000	
SN74LV123ARGYR	296-13931-1-ND	Dual Retrig. Monostable Multivibrator	16-QFN	.66	.50	.38
SN74LV123ARGYR	296-13931-2-ND	Dual Retrig. Monostable Multivibrator	16-QFN		219.00/1,000	
SN74LV123ATPWREP	296-22308-1-ND	Dual Retrig. Mono Multivibrator ***NEW!***	16-TSSOP	1.08	.90	.72
SN74LV123ATPWREP	296-22308-2-ND	Dual Retrig. Mono Multivibrator ***NEW!***	16-TSSOP		958.00/2,000	
SN74LV125AD	296-1674-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.50	.40	.30
SN74LV125ADBR	296-14314-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.50	.40	.30
SN74LV125ADBR	296-14314-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		280.00/2,000	
SN74LV125ADGVR	296-3775-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.50	.40	.30
SN74LV125ADGVR	296-3775-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP		280.00/2,000	
SN74LV125APWR	296-3776-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.42	.34	.25
SN74LV125APWR	296-3776-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		232.00/2,000	
SN74LV125ARGYR	296-13932-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.66	.50	.38
SN74LV125ARGYR	296-13932-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN		219.00/1,000	
SN74LV125ATDBR	296-21027-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.52	.39	.30
SN74LV125ATDBR	296-21027-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		346.00/2,000	
SN74LV125ATDR	296-21028-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.52	.39	.30
SN74LV125ATDR	296-21028-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		422.50/2,500	
SN74LV125ATNSR	296-21029-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.52	.39	.30
SN74LV125ATNSR	296-21029-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP		346.00/2,000	
SN74LV125ATPWR	296-21030-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.52	.39	.30
SN74LV125ATPWR	296-21030-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		346.00/2,000	
SN74LV125ATRGYR	296-21031-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.60	.45	.34
SN74LV125ATRGYR	296-21031-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN		200.00/1,000	
SN74LV126AD	296-14315-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.50	.40	.30
SN74LV126ADBR	296-15718-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.50	.40	.30
SN74LV126ADBR	296-15718-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		280.00/2,000	
SN74LV126ADGVR	296-14191-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.50	.40	.30
SN74LV126ADGVR	296-14191-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP		280.00/2,000	
SN74LV126ADR	296-14021-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.50	.40	.30
SN74LV126ADR	296-14021-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		337.50/2,500	
SN74LV126APWR	296-12992-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.50	.40	.30
SN74LV126APWR	296-12992-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		280.00/2,000	
SN74LV132AD	296-1675-5-ND	Quad NAND Gate	14-SOIC	.50	.40	.30
SN74LV132ADR	296-1675-1-ND	Quad NAND Gate	14-SOIC	.50	.40	.30
SN74LV132ADR	296-1675-2-ND	Quad NAND Gate	14-SOIC		337.50/2,500	
SN74LV132ADBR	296-3777-1-ND	Quad NAND Gate	14-SSOP	.50	.40	.30
SN74LV132ADBR	296-3777-2-ND	Quad NAND Gate	14-SSOP		280.00/2,000	
SN74LV132ADGVR	296-3778-1-ND	Quad NAND Gate	14-TVSOP	.50	.40	.30
SN74LV132ADGVR	296-3778-2-ND	Quad NAND Gate	14-TVSOP		280.00/2,000	
SN74LV132APWR	296-3779-1-ND	Quad NAND Gate	14-TSSOP	.50	.40	.30
SN74LV132APWR	296-3779-2-ND	Quad NAND Gate	14-TSSOP		280.00/2,000	
SN74LV138AD	296-1676-5-ND	3-to-8 Line Decoder/Demux	16-SOIC	.50	.40	.30
SN74LV138ADGVR	296-23261-1-ND	3-to-8 Line Decoder/Demux ***NEW!***	16-TVSOP	.55	.44	.33
SN74LV138ADGVR	296-23261-2-ND	3-to-8 Line Decoder/Demux ***NEW!***	16-TVSOP		308.00/2,000	
SN74LV138ADR	296-1676-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	.50	.40	.30
SN74LV138ADR	296-1676-2-ND	3-to-8 Line Decoder/Demux	16-SOIC		337.50/2,500	
SN74LV138APWR	296-3780-1-ND	3-to-8 Line Decoder/Demux	16-TSSOP	.50	.40	.30
SN74LV138APWR	296-3780-2-ND	3-to-8 Line Decoder/Demux	16-TSSOP		280.00/2,000	
SN74LV138ARGYR	296-13933-1-ND	3-to-8 Line Decoder/Demux	16-QFN	.66	.50	.38
SN74LV138ARGYR	296-13933-2-ND	3-to-8 Line Decoder/Demux	16-QFN		219.00/1,000	
SN74LV138ATDBR	296-21032-1-ND	3-to-8 Line Decoder/Demux	16-SSOP	.64	.48	.36
SN74LV138ATDBR	296-21032-2-ND	3-to-8 Line Decoder/Demux	16-SSOP		426.00/2,000	
SN74LV138ATDGVR	296-21033-1-ND	3-to-8 Line Decoder/Demux	16-TVSOP	.64	.48	.36
SN74LV138ATDGVR	296-21033-2-ND	3-to-8 Line Decoder/Demux	16-TVSOP		426.00/2,000	

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LV138ATDR	296-21034-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	.64	.48	.36
SN74LV138ATDR	296-21034-2-ND	3-to-8 Line Decoder/Demux	16-SOIC		520.00/2,500	
SN74LV138ATNSR	296-21035-1-ND	3-to-8 Line Decoder/Demux	16-SOP	.64	.48	.36
SN74LV138ATNSR	296-21035-2-ND	3-to-8 Line Decoder/Demux	16-SOP		426.00/2,000	
SN74LV138ATPWR	296-21036-1-ND	3-to-8 Line Decoder/Demux	16-TSSOP	.64	.48	.36
SN74LV138ATPWR	296-21036-2-ND	3-to-8 Line Decoder/Demux	16-TSSOP		426.00/2,000	
SN74LV138ATRGYR	296-21037-1-ND	3-to-8 Line Decoder/Demux	16-QFN	.64	.48	.36
SN74LV138ATRGYR	296-21037-2-ND	3-to-8 Line Decoder/Demux	16-QFN		213.00/1,000	
SN74LV139AD	296-1677-5-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.50	.40	.30
SN74LV139ADBR	296-3781-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	.50	.40	.30
SN74LV139ADBR	296-3781-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP		280.00/2,000	
SN74LV139APWR	296-3782-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	.50	.40	.30
SN74LV139APWR	296-3782-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP		280.00/2,000	
SN74LV139ARGYR	296-13934-1-ND	Dual 2-4 Decoder/Demultiplexer	16-QFN	.66	.50	.38
SN74LV139ARGYR	296-13934-2-ND	Dual 2-4 Decoder/Demultiplexer	16-QFN		219.00/1,000	
SN74LV157ADBR	296-9830-1-ND	Quad 2-1 Line Data Selector/Mux	16-SSOP	.88	.66	.50
SN74LV157ADBR	296-9830-2-ND	Quad 2-1 Line Data Selector/Mux	16-SSOP		586.00/2,000	
SN74LV157ADGVR	296-9831-1-ND	Quad 2-1 Line Data Selector/Mux	16-TVSOP	.88	.66	.50
SN74LV157ADGVR	296-9831-2-ND	Quad 2-1 Line Data Selector/Mux	16-TVSOP		586.00/2,000	
SN74LV157ADR	296-9832-1-ND	Quad 2-1 Line Data Selector/Mux	16-SOIC	.88	.66	.50
SN74LV157ADR	296-9832-2-ND	Quad 2-1 Line Data Selector/Mux	16-SOIC		715.00/2,500	
SN74LV157APWR	296-9833-1-ND	Quad 2-1 Line Data Selector/Mux	16-TSSOP	.88	.66	.50
SN74LV157APWR	296-9833-2-ND	Quad 2-1 Line Data Selector/Mux	16-TSSOP		586.00/2,000	
SN74LV161ADBR	296-12342-1-ND	4-Bit Sync. Binary Counter	16-SSOP	.88	.66	.50
SN74LV161ADBR	296-12342-2-ND	4-Bit Sync. Binary Counter	16-SSOP		586.00/2,000	
SN74LV161ADGVR	296-12343-1-ND	4-Bit Sync. Binary Counter	16-TVSOP	.88	.66	.50
SN74LV161ADGVR	296-12343-2-ND	4-Bit Sync. Binary Counter	16-TVSOP		586.00/2,000	
SN74LV161ADR	296-13227-1-ND	4-Bit Sync. Binary Counter	16-SOIC	.88	.66	.50
SN74LV161ADR	296-13227-2-ND	4-Bit Sync. Binary Counter	16-SOIC		715.00/2,500	
SN74LV161APWR	296-12344-1-ND	4-Bit Sync. Binary Counter	16-TSSOP	.88	.66	.50
SN74LV161APWR	296-12344-2-ND	4-Bit Sync. Binary Counter	16-TSSOP		586.00/2,000	
SN74LV163ADBR	296-12345-1-ND	4-Bit Sync. Binary Counter	16-SSOP	.88	.66	.50
SN74LV163ADBR	296-12345-2-ND	4-Bit Sync. Binary Counter	16-SSOP		586.00/2,000	
SN74LV163ADGVR	296-12346-1-ND	4-Bit Sync. Binary Counter	16-TVSOP	.88	.66	.50
SN74LV163ADGVR	296-12346-2-ND	4-Bit Sync. Binary Counter	16-TVSOP		586.00/2,000	
SN74LV163ADR	296-11666-1-ND	4-Bit Sync. Binary Counter	16-SOIC	.88	.66	.50
SN74LV163ADR	296-11666-2-ND	4-Bit Sync. Binary Counter	16-SOIC		715.00/2,500	
SN74LV163APWR	296-12347-1-ND	4-Bit Sync. Binary Counter	16-TSSOP	.88	.66	.50
SN74LV163APWR	296-12347-2-ND	4-Bit Sync. Binary Counter	16-TSSOP		586.00/2,000	
SN74LV163ARGYR	296-13936-1-ND	4-Bit Sync. Binary Counter	16-QFN	.78	.65	.52
SN74LV163ARGYR	296-13936-2-ND	4-Bit Sync. Binary Counter	16-QFN		346.00/1,000	
SN74LV164AD	296-1680-5-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	.88	.66	.50
SN74LV164ADBR	296-3787-1-ND	8-Bit Parallel-Out Serial Shift Register	14-SSOP	.88	.66	.50
SN74LV164ADBR	296-3787-2-ND	8-Bit Parallel-Out Serial Shift Register	14-SSOP		586.00/2,000	
SN74LV164ANSR	296-13228-1-ND	8-Bit Parallel-Out Serial Shift Register	14-SOP	.88	.66	.50
SN74LV164ANSR	296-13228-2-ND	8-Bit Parallel-Out Serial Shift Register	14-SOP		586.00/2,000	
SN74LV164APWR	296-3788-1-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	.88	.66	.50
SN74LV164APWR	296-3788-2-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP		586.00/2,000	
SN74LV164ARGYR	296-18207-1-ND	8-Bit Parallel-Out Serial Shift Register	14-QFN	.78	.65	.52
SN74LV164ARGYR	296-18207-2-ND	8-Bit Parallel-Out Serial Shift Register	14-QFN		346.00/1,000	
SN74LV165AD	296-1681-5-ND	8-Bit Parallel Load Shift Register	16-SOIC	.88	.66	.50
SN74LV165ADGVR	296-14316-1-ND	8-Bit Parallel Load Shift Register	16-TVSOP	.88	.66	.50
SN74LV165ADGVR	296-14316-2-ND	8-Bit Parallel Load Shift Register	16-TVSOP		586.00/2,000	
SN74LV165ADR	296-1681-1-ND	8-Bit Parallel Load Shift Register	16-SOIC	.88	.66	.50
SN74LV165ADR	296-1681-2-ND	8-Bit Parallel Load Shift Register	16-SOIC		715.00/2,500	
SN74LV165AMPWREP	296-19443-1-ND	8-Bit Parallel Load Shift Register	16-TSSOP	2.77	2.22	1.73
SN74LV165AMPWREP	296-19443-2-ND	8-Bit Parallel Load Shift Register	16-TSSOP		3136.00/2,000	
SN74LV165APWR	296-3790-1-ND	8-Bit Parallel Load Shift Register	16-TSSOP	.88	.66	.50
SN74LV165APWR	296-3790-2-ND	8-Bit Parallel Load Shift Register	16-TSSOP		586.00/2,000	
SN74LV165ARGYR	296-13937-1-ND	8-Bit Parallel Load Shift Register	16-QFN	.78	.65	.52
SN74LV165ARGYR	296-13937-2-ND	8-Bit Parallel Load Shift Register	16-QFN		346.00/1,000	
SN74LV166ADBR	296-9834-1-ND	8-Bit Parallel Load Shift Register	16-SSOP	.90	.75	.60
SN74LV166ADBR	296-9834-2-ND	8-Bit Parallel Load Shift Register	16-SSOP		798.00/2,000	
SN74LV166ADGVR	296-9835-1-ND	8-Bit Parallel Load Shift Register	16-TVSOP	.90	.75	.60
SN74LV166ADGVR	296-9835-2-ND	8-Bit Parallel Load Shift Register	16-TVSOP		798.00/2,000	
SN74LV166ADR	296-9836-1-ND	8-Bit Parallel Load Shift Register	16-SOIC	.90	.75	.60
SN74LV166ADR	296-9836-2-ND	8-Bit Parallel Load Shift Register	16-SOIC		975.00/2,500	
SN74LV166APWR	296-9837-1-ND	8-Bit Parallel Load Shift Register	16-TSSOP	.90	.75	.60
SN74LV166APWR	296-9837-2-ND	8-Bit Parallel Load Shift Register	16-TSSOP		798.00/2,000	
SN74LV174ADGVR	296-23262-1-ND	Hex D-Type Flip-Flop w/Clear ***NEW!***	16-TVSOP	.64	.48	.36
SN74LV174ADGVR	296-23262-2-ND	Hex D-Type Flip-Flop w/Clear ***NEW!***	16-TVSOP		426.00/2,000	
SN74LV174ADR	296-14903-1-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.64	.48	.36
SN74LV174ADR	296-14903-2-ND	Hex D-Type Flip-Flop with Clear	16-SOIC		520.00/2,500	
SN74LV174APWR	296-3792-1-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	.64	.48	.36
SN74LV174APWR	296-3792-2-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP		426.00/2,000	
SN74LV175AD	296-1682-5-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.88	.66	.50
SN74LV175ADGVR	296-23263-1-ND	Quad D-Type Flip-Flop w/Clear ***NEW!***	16-TVSOP	.88	.66	.50
SN74LV175ADGVR	296-23263-2-ND	Quad D-Type Flip-Flop w/Clear ***NEW!***	16-TVSOP		586.00/2,000	
SN74LV175ANSR	296-13229-1-ND	Quad D-Type Flip-Flop with Clear	16-SOP	.88	.66	.50
SN74LV175ANSR	296-13229-2-ND	Quad D-Type Flip-Flop with Clear	16-SOP		586.00/2,000	
SN74LV175APWR	296-3793-1-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	.88	.66	.50
SN74LV175APWR	296-3793-2-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP		586.00/2,000	
SN74LV221AD	296-3801-5-ND	Dual Mono Multivibrator	16-SOIC	1.20	1.00	.80
SN74LV221ADGVR	296-23264-1-ND	Dual Mono Multivibrator ***NEW!***	16-TVSOP	1.20	1.00	.80
SN74LV221ADGVR	296-23264-2-ND	Dual Mono Multivibrator ***NEW!***	16-TVSOP		1064.00/2,000	
SN74LV221ADR	296-3801-1-ND	Dual Mono Multivibrator	16-SOIC	1.20	1.00	.80
SN74LV221ADR	296-3801-2-ND	Dual Mono Multivibrator	16-SOIC		1300.00/2,500	
SN74LV221ANSR	296-12473-1-ND	Dual Mono Multivibrator	16-SOP	1.20	1.00	.80
SN74LV221ANSR	296-12473-2-ND	Dual Mono Multivibrator	16-SOP		1064.00/2,000	
SN74LV240ADBR	296-3802-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.64	.48	.36
SN74LV240ADBR	296-3802-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		426.00/2,000	
SN74LV240ADGVR	296-3803-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.70	.53	.40
SN74LV240ADGVR	296-3803-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		466.00/2,000	
SN74LV240ADW	296-1683-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.64	.48	.36
SN74LV240APWR	296-12348-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.64	.48	.36
SN74LV240APWR	296-12348-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		426.00/2,000	
SN74LV244ADBR	296-3804-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.64	.48	.36
SN74LV244ADBR	296-3804-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		426.00/2,000	
SN74LV244ADGVR	296-3805-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.70	.53	.40
SN74LV244ADGVR	296-3805-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		468.00/2,000	
SN74LV244ADW	296-1684-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.64	.48	.36
SN74LV244AMDWREP	296-19444-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	2.25	1.80	1.35
SN74LV244AMDWREP	296-19444-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC		2340.00/2,000	
SN74LV244ANSR	296-13230-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.64	.48	.36
SN74LV244ANSR	296-13230-2-ND	Tri-State Octal Buffer/Driver	20-SOP		426.00/2,000	

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LV244APWR	296-3806-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.48	.37	.28
SN74LV244APWR	296-3806-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	322.00/2,000		
SN74LV244ARGYR	296-13938-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.80	.60	.45
SN74LV244ARGYR	296-13938-2-ND	Tri-State Octal Buffer/Driver	20-QFN	266.00/1,000		
SN74LV244ATDGVR	296-19256-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.70	.53	.40
SN74LV244ATDGVR	296-19256-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	468.00/2,000		
SN74LV244ATDWR	296-19257-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.64	.48	.36
SN74LV244ATDWR	296-19257-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	426.00/2,000		
SN74LV244ATPWR	296-19258-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.64	.48	.36
SN74LV244ATPWR	296-19258-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	426.00/2,000		
SN74LV244ATRGYR	296-19259-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.70	.53	.40
SN74LV244ATRGYR	296-19259-2-ND	Tri-State Octal Buffer/Driver	20-QFN	234.00/1,000		
SN74LV245ADBR	296-3807-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.64	.48	.36
SN74LV245ADBR	296-3807-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	426.00/2,000		
SN74LV245ADGVR	296-3808-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.70	.53	.40
SN74LV245ADGVR	296-3808-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	468.00/2,000		
SN74LV245ADW	296-1685-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.64	.48	.36
SN74LV245AGQNR	296-12091-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.75	.63	.50
SN74LV245AGQNR	296-12091-2-ND	Tri-State Octal Bus Transceiver	20-BGA	333.00/1,000		
SN74LV245ANSR	296-13231-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.64	.48	.36
SN74LV245ANSR	296-13231-2-ND	Tri-State Octal Bus Transceiver	20-SOP	426.00/2,000		
SN74LV245APWR	296-3809-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.64	.48	.36
SN74LV245APWR	296-3809-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	426.00/2,000		
SN74LV245ARGYR	296-13939-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.80	.60	.45
SN74LV245ARGYR	296-13939-2-ND	Tri-State Octal Bus Transceiver	20-QFN	266.00/1,000		
SN74LV245ATDBR	296-17767-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.80	.60	.45
SN74LV245ATDBR	296-17767-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	532.00/2,000		
SN74LV245ATDGVR	296-17768-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.80	.60	.45
SN74LV245ATDGVR	296-17768-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	532.00/2,000		
SN74LV245ATDWR	296-17769-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74LV245ATDWR	296-17769-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	532.00/2,000		
SN74LV245ATNSR	296-17770-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.80	.60	.45
SN74LV245ATNSR	296-17770-2-ND	Tri-State Octal Bus Transceiver	20-SOP	532.00/2,000		
SN74LV245ATPWR	296-17771-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.80	.60	.45
SN74LV245ATPWR	296-17771-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	532.00/2,000		
SN74LV245ATRGYR	296-17772-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.80	.60	.45
SN74LV245ATRGYR	296-17772-2-ND	Tri-State Octal Bus Transceiver	20-QFN	266.00/1,000		
SN74LV273ADBR	296-12349-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.96	.72	.54
SN74LV273ADBR	296-12349-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	638.00/2,000		
SN74LV273ADGVR	296-3810-1-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP	.96	.72	.54
SN74LV273ADGVR	296-3810-2-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP	638.00/2,000		
SN74LV273ADW	296-3811-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.96	.72	.54
SN74LV273ADWR	296-14904-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.96	.72	.54
SN74LV273ADWR	296-14904-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	638.00/2,000		
SN74LV273APWR	296-3812-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.96	.72	.54
SN74LV273APWR	296-3812-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	638.00/2,000		
SN74LV273ARGYR	296-13940-1-ND	Octal D-Type Flip-Flop with Clear	20-QFN	.87	.73	.58
SN74LV273ARGYR	296-13940-2-ND	Octal D-Type Flip-Flop with Clear	20-QFN	386.00/1,000		
SN74LV273AZQNR	296-23265-1-ND	Octal D-Type Flip-Flop w/Clear ***NEW!***	20-VFBGA	.87	.73	.58
SN74LV273AZQNR	296-23265-2-ND	Octal D-Type Flip-Flop w/Clear ***NEW!***	20-VFBGA	386.00/1,000		
SN74LV367ADGVR	296-13491-1-ND	Tri-State Hex Buffer/Line Driver	16-TVSOP	1.05	.88	.70
SN74LV367ADGVR	296-13491-2-ND	Tri-State Hex Buffer/Line Driver	16-TVSOP	932.00/2,000		
SN74LV367ADR	296-23266-1-ND	Tri-St. Hex Buffer/Line Driver ***NEW!***	16-SOIC	1.05	.88	.70
SN74LV367ADR	296-23266-2-ND	Tri-St. Hex Buffer/Line Driver ***NEW!***	16-SOIC	1137.50/2,500		
SN74LV367APWR	296-12350-1-ND	Tri-State Hex Buffer/Line Driver	16-TSSOP	1.05	.88	.70
SN74LV367APWR	296-12350-2-ND	Tri-State Hex Buffer/Line Driver	16-TSSOP	932.00/2,000		
SN74LV373ADBR	296-14317-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.64	.48	.36
SN74LV373ADBR	296-14317-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	426.00/2,000		
SN74LV373ADWR	296-16657-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.64	.48	.36
SN74LV373ADWR	296-16657-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	426.00/2,000		
SN74LV373ADW	296-1687-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.64	.48	.36
SN74LV373AGQNR	296-12092-1-ND	Tri-St. Octal D-Type Transparent Latch	20-BGA	.76	.57	.43
SN74LV373AGQNR	296-12092-2-ND	Tri-St. Octal D-Type Transparent Latch	20-BGA	253.00/1,000		
SN74LV373APWR	296-14318-1-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	.64	.48	.36
SN74LV373APWR	296-14318-2-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	426.00/2,000		
SN74LV373ARGYR	296-13942-1-ND	Tri-St. Octal D-Type Transparent Latch	20-QFN	.80	.60	.45
SN74LV373ARGYR	296-13942-2-ND	Tri-St. Octal D-Type Transparent Latch	20-QFN	266.00/1,000		
SN74LV373ATDBR	296-21038-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.72	.54	.41
SN74LV373ATDBR	296-21038-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	478.00/2,000		
SN74LV373ATDWR	296-21039-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.72	.54	.41
SN74LV373ATDWR	296-21039-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	478.00/2,000		
SN74LV373ATNSR	296-21040-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SOP	.72	.54	.41
SN74LV373ATNSR	296-21040-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SOP	478.00/2,000		
SN74LV373ATPWR	296-21041-1-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	.72	.54	.41
SN74LV373ATPWR	296-21041-2-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	478.00/2,000		
SN74LV373ATRGYR	296-21042-1-ND	Tri-St. Octal D-Type Transparent Latch	20-QFN	.72	.54	.41
SN74LV373ATRGYR	296-21042-2-ND	Tri-St. Octal D-Type Transparent Latch	20-QFN	239.00/1,000		
SN74LV374ADBR	296-12553-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SSOP	.64	.48	.36
SN74LV374ADBR	296-12553-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SSOP	426.00/2,000		
SN74LV374ADW	296-1688-5-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	.64	.48	.36
SN74LV374AGQNR	296-12093-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-BGA	.90	.75	.60
SN74LV374AGQNR	296-12093-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-BGA	399.00/1,000		
SN74LV374APWR	296-3820-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-TSSOP	.64	.48	.36
SN74LV374APWR	296-3820-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-TSSOP	426.00/2,000		
SN74LV374ARGYR	296-13943-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-QFN	.76	.57	.43
SN74LV374ARGYR	296-13943-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-QFN	253.00/1,000		
SN74LV374ATDBR	296-21043-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SSOP	.72	.54	.41
SN74LV374ATDBR	296-21043-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SSOP	478.00/2,000		
SN74LV374ATDWR	296-21044-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	.72	.54	.41
SN74LV374ATDWR	296-21044-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	478.00/2,000		
SN74LV374ATNSR	296-21045-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOP	.72	.54	.41

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LV374ATNSR	296-21045-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOP	478.00/2,000		
SN74LV374ATPWR	296-21046-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-TSSOP	.72	.54	.41
SN74LV374ATPWR	296-21046-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-TSSOP	478.00/2,000		
SN74LV374ATPWREP	296-22312-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop ***NEW!***	20-TSSOP	1.44	1.20	.96
SN74LV374ATPWREP	296-22312-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop ***NEW!***	20-TSSOP	1276.00/2,000		
SN74LV374ATRGYR	296-21047-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-QFN	.84	.63	.48
SN74LV374ATRGYR	296-21047-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-QFN	279.00/1,000		
SN74LV393ADBR	296-12351-1-ND	Dual 4-Bit Binary Counter	14-SSOP	.75	.63	.50
SN74LV393ADBR	296-12351-2-ND	Dual 4-Bit Binary Counter	14-SSOP	666.00/2,000		
SN74LV393ADGVR	296-13233-1-ND	Dual 4-Bit Binary Counter	14-TVSOP	.75	.63	.50
SN74LV393ADGVR	296-13233-2-ND	Dual 4-Bit Binary Counter	14-TVSOP	666.00/2,000		
SN74LV393ADR	296-11664-1-ND	Dual 4-Bit Binary Counter	14-SOIC	.75	.63	.50
SN74LV393ADR	296-11664-2-ND	Dual 4-Bit Binary Counter	14-SOIC	812.50/2,500		
SN74LV393ANSR	296-14192-1-ND	Dual 4-Bit Binary Counter	14-SOIC	.75	.63	.50
SN74LV393ANSR	296-14192-2-ND	Dual 4-Bit Binary Counter	14-SOIC	666.00/2,000		
SN74LV393APWR	296-11643-1-ND	Dual 4-Bit Binary Counter	14-TSSOP	.75	.63	.50
SN74LV393APWR	296-11643-2-ND	Dual 4-Bit Binary Counter	14-TSSOP	666.00/2,000		
SN74LV393ATPWREP	296-22313-1-ND	Dual 4-Bit Binary Counter ***NEW!***	14-TSSOP	1.88	1.50	1.13
SN74LV393ATPWREP	296-22313-2-ND	Dual 4-Bit Binary Counter ***NEW!***	14-TSSOP	1950.00/2,000		
SN74LV540ADGVR	296-14319-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.96	.72	.54
SN74LV540ADGVR	296-14319-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	638.00/2,000		
SN74LV540ADWR	296-3837-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.96	.72	.54
SN74LV540ADWR	296-3837-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	638.00/2,000		
SN74LV541ADBR	296-3838-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.78	.65	.52
SN74LV541ADBR	296-3838-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	692.00/2,000		
SN74LV541ADW	296-1689-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.78	.65	.52
SN74LV541APWR	296-13700-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.78	.65	.52
SN74LV541APWR	296-13700-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	692.00/2,000		
SN74LV541ARGYR	296-13949-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.78	.65	.52
SN74LV541ARGYR	296-13949-2-ND	Tri-State Octal Buffer/Driver	20-QFN	346.00/1,000		
SN74LV541ATDGVR	296-19261-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.79	.66	.53
SN74LV541ATDGVR	296-19261-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	702.00/2,000		
SN74LV541ATDWR	296-18662-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.96	.72	.54
SN74LV541ATDWR	296-18662-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	638.00/2,000		
SN74LV541ATPWR	296-18698-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.96	.72	.54
SN74LV541ATPWR	296-18698-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	638.00/2,000		
SN74LV541ATRGYR	296-18725-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.79	.66	.53
SN74LV541ATRGYR	296-18725-2-ND	Tri-State Octal Buffer/Driver	20-QFN	351.00/1,000		
SN74LV573ADBR	296-3839-1-ND	Tri-State Octal D-Type Latch	20-SSOP	.64	.48	.36
SN74LV573ADBR	296-3839-2-ND	Tri-State Octal D-Type Latch	20-SSOP	426.00/2,000		
SN74LV573ADW	296-1690-5-ND	Tri-State Octal D-Type Latch	20-SOIC	.64	.48	.36
SN74LV573ADWR	296-1690-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.64	.48	.36
SN74LV573ADWR	296-1690-2-ND	Tri-State Octal D-Type Latch	20-SOIC	426.00/2,000		
SN74LV573AGQNR	296-12094-1-ND	Tri-State Octal Transparent D-Type Latch	20-BGA	1.17	.98	.78
SN74LV573AGQNR	296-12094-2-ND	Tri-State Octal Transparent D-Type Latch	20-BGA	519.00/1,000		
SN74LV573APWR	296-3840-1-ND	Tri-State Octal D-Type Latch	20-TSSOP	.64	.48	.36
SN74LV573APWR	296-3840-2-ND	Tri-State Octal D-Type Latch	20-TSSOP	426.00/2,000		
SN74LV573ARGYR	296-13950-1-ND	Tri-State Octal D-Type Latch	20-QFN	.76	.57	.43
SN74LV573ARGYR	296-13950-2-ND	Tri-State Octal D-Type Latch	20-QFN	253.00/1,000		
SN74LV573ATDWR	296-18743-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.48	.36	.27
SN74LV573ATDWR	296-18743-2-ND	Tri-State Octal D-Type Latch	20-SOIC	320.00/2,000		
SN74LV573ATPWR	296-18745-1-ND	Tri-State Octal D-Type Latch	20-TSSOP	.48	.36	.27
SN74LV573ATPWR	296-18745-2-ND	Tri-State Octal D-Type Latch	20-TSSOP	320.00/2,000		
SN74LV573ATRGYR	296-18746-1-ND	Tri-State Octal D-Type Latch	20-QFN	.72	.54	.41
SN74LV573ATRGYR	296-18746-2-ND	Tri-State Octal D-Type Latch	20-QFN	239.00/1,000		
SN74LV574ADW	296-1691-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.64	.48	.36
SN74LV574AGQNR	296-12095-1-ND	Tri-State D-Type Flip-Flop	20-BGA	.78	.65	.52
SN74LV574AGQNR	296-12095-2-ND	Tri-State D-Type Flip-Flop	20-BGA	346.00/1,000		
SN74LV574APWR	296-12285-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.64	.48	.36
SN74LV574APWR	296-12285-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	426.00/2,000		
SN74LV574ARGYR	296-13951-1-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	.76	.57	.43
SN74LV574ARGYR	296-13951-2-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	253.00/1,000		
SN74LV594ADBR	296-3841-1-ND	8-Bit Shift Register w/Output Register	16-SSOP	.78	.65	.52
SN74LV594ADBR	296-3841-2-ND	8-Bit Shift Register w/Output Register	16-SSOP	692.00/2,000		
SN74LV595ADR	296-18747-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.96	.72	.54
SN74LV595ADR	296-18747-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	780.00/2,500		
SN74LV595AIPWREP	296-22320-1-ND	Tri-State 8-Bit Shift Register ***NEW!***	16-TSSOP	1.35	1.08	.81
SN74LV595AIPWREP	296-22320-2-ND	Tri-State 8-Bit Shift Register ***NEW!***	16-TSSOP	1404.00/2,000		
SN74LV595APWR	296-3843-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.96	.72	.54
SN74LV595APWR	296-3843-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	638.00/2,000		
SN74LV595ARGYR	296-13952-1-ND	Tri-State 8-Bit Shift Register	16-QFN	.87	.73	.58
SN74LV595ARGYR	296-13952-2-ND	Tri-State 8-Bit Shift Register	16-QFN	386.00/1,000		
SN74LV4040ADBR	296-3821-1-ND	12-Bit Async. Binary Counter	16-SSOP	1.20	1.00	.80
SN74LV4040ADBR	296-3821-2-ND	12-Bit Async. Binary Counter	16-SSOP	1064.00/2,000		
SN74LV4040ADGVR	296-3822-1-ND	12-Bit Async. Binary Counter	16-TVSOP	1.20	1.00	.80
SN74LV4040ADGVR	296-3822-2-ND	12-Bit Async. Binary Counter	16-TVSOP	1064.00/2,000		
SN74LV4040ADR	296-23267-1-ND	12-Bit Async. Binary Counter ***NEW!***	16-SOIC	1.20	1.00	.80
SN74LV4040ADR	296-23267-2-ND	12-Bit Async. Binary Counter ***NEW!***	16-SOIC	1300.00/2,500		
SN74LV4040APWR	296-3824-1-ND	12-Bit Async. Binary Counter	16-TSSOP	.53	.42	.32
SN74LV4040APWR	296-3824-2-ND	12-Bit Async. Binary Counter	16-TSSOP	294.00/2,000		
SN74LV4040ARGYR	296-13944-1-ND	12-Bit Async. Binary Counter	16-QFN	1.44	1.20	.96
SN74LV4040ARGYR	296-13944-2-ND	12-Bit Async. Binary Counter	16-QFN	638.00/1,000		
SN74LV4046ADGVR	296-21048-1-ND	High Speed CMOS Logic PLL	16-TVSOP	1.32	1.10	.88
SN74LV4046ADGVR	296-21048-2-ND	High Speed CMOS Logic PLL	16-TVSOP	1170.00/2,000		
SN74LV4046ADR	296-21049-1-ND	High Speed CMOS Logic PLL	16-SOIC	1.20	1.00	.80
SN74LV4046ADR	296-21049-2-ND	High Speed CMOS Logic PLL	16-SOIC	1300.00/2,500		
SN74LV4046AN	296-21340-5-ND	High Speed CMOS Logic PLL	16-Dip	1.20	1.00	.80
SN74LV4046ANSR	296-21050-1-ND	High Speed CMOS Logic PLL	16-SOP	1.20	1.00	.80
SN74LV4046ANSR	296-21050-2-ND	High Speed CMOS Logic PLL	16-SOP	1064.00/2,000		
SN74LV4046APWR	296-21051-1-ND	High Speed CMOS Logic PLL	16-TSSOP	1.20	1.00	.80
SN74LV4046APWR	296-21051-2-ND	High Speed CMOS Logic PLL	16-TSSOP	1064.00/2,000		
SN74LV4051ADBR	296-3825-1-ND	8-Channel Analog Mux/Demux	16-SSOP	.75	.63	.50
SN74LV4051ADBR	296-3825-2-ND	8-Channel Analog Mux/Demux	16-SSOP	666.00/2,000		
SN74LV4051ADGVR	296-3826-1-ND	8-Channel Analog Mux/Demux	16-TVSOP	.75	.63	.50
SN74LV4051ADGVR	296-3826-2-ND	8-Channel Analog Mux/Demux	16-TVSOP	666.00/2,000		

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T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
SN74LV4051ADR	296-3827-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.75	.63	.50
SN74LV4051ADR	296-3827-2-ND	8-Channel Analog Mux/Demux	16-SOIC	812.50/2,500		
SN74LV4051AN	296-3828-5-ND	8-Channel Analog Mux/Demux	16-Dip	.75	.63	.50
SN74LV4051ANSR	296-17113-1-ND	8-Channel Analog Mux/Demux	16-SOP	.75	.63	.50
SN74LV4051ANSR	296-17113-2-ND	8-Channel Analog Mux/Demux	16-SOP	666.00/2,000		
SN74LV4051APWR	296-3829-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4051APWR	296-3829-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	666.00/2,000		
SN74LV4051ARGYR	296-13945-1-ND	8-Channel Analog Mux/Demux	16-QFN	.90	.75	.60
SN74LV4051ARGYR	296-13945-2-ND	8-Channel Analog Mux/Demux	16-QFN	399.00/1,000		
SN74LV4051ATDREP	296-22314-1-ND	8-Channel Analog Mux/Demux ***NEW!***	16-SOIC	1.88	1.50	1.13
SN74LV4051ATDREP	296-22314-2-ND	8-Channel Analog Mux/Demux ***NEW!***	16-SOIC	2400.00/2,500		
SN74LV4051ATPWREP	296-22315-1-ND	8-Channel Analog Mux/Demux ***NEW!***	16-TSSOP	1.88	1.50	1.13
SN74LV4051ATPWREP	296-22315-2-ND	8-Channel Analog Mux/Demux ***NEW!***	16-TSSOP	1950.00/2,000		
SN74LV4051ATPWRQ1	296-19260-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.88	.74	.59
SN74LV4051ATPWRQ1	296-19260-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	782.00/2,000		
SN74LV4052ADGVR	296-12706-1-ND	Dual 4-Channel Analog Mux/Demux	16-TVSOP	.75	.63	.50
SN74LV4052ADGVR	296-12706-2-ND	Dual 4-Channel Analog Mux/Demux	16-TVSOP	666.00/2,000		
SN74LV4052ADR	296-16707-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.75	.63	.50
SN74LV4052ADR	296-16707-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	812.50/2,500		
SN74LV4052AN	296-3830-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.75	.63	.50
SN74LV4052APW	296-3831-5-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4052APWR	296-3831-1-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4052APWR	296-3831-2-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	666.00/2,000		
SN74LV4052ARGYR	296-13946-1-ND	Dual 4-Channel Analog Mux/Demux	16-QFN	.90	.75	.60
SN74LV4052ARGYR	296-13946-2-ND	Dual 4-Channel Analog Mux/Demux	16-QFN	399.00/1,000		
SN74LV4052ATDREP	296-22316-1-ND	Dual 4-Ch. Analog Mux/Demux ***NEW!***	16-SOIC	1.88	1.50	1.13
SN74LV4052ATDREP	296-22316-2-ND	Dual 4-Ch. Analog Mux/Demux ***NEW!***	16-SOIC	2400.00/2,500		
SN74LV4052ATPWREP	296-22317-1-ND	Dual 4-Ch. Analog Mux/Demux ***NEW!***	16-TSSOP	1.88	1.50	1.13
SN74LV4052ATPWREP	296-22317-2-ND	Dual 4-Ch. Analog Mux/Demux ***NEW!***	16-TSSOP	1950.00/2,000		
SN74LV4053ADR	296-16708-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.75	.63	.50
SN74LV4053ADR	296-16708-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	812.50/2,500		
SN74LV4053AN	296-3832-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.75	.63	.50
SN74LV4053APW	296-3833-5-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4053APWR	296-3833-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4053APWR	296-3833-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	650.00/2,000		
SN74LV4053ARGYR	296-13947-1-ND	Triple 2-Channel Analog Mux/Demux	16-QFN	.90	.75	.60
SN74LV4053ARGYR	296-13947-2-ND	Triple 2-Channel Analog Mux/Demux	16-QFN	399.00/1,000		
SN74LV4053ATDREP	296-22318-1-ND	Triple 2-Ch. Analog Mux/Demux ***NEW!***	16-SOIC	1.88	1.50	1.13
SN74LV4053ATDREP	296-22318-2-ND	Triple 2-Ch. Analog Mux/Demux ***NEW!***	16-SOIC	2400.00/2,500		
SN74LV4053ATPWREP	296-22319-1-ND	Triple 2-Ch. Analog Mux/Demux ***NEW!***	16-TSSOP	1.88	1.50	1.13
SN74LV4053ATPWREP	296-22319-2-ND	Triple 2-Ch. Analog Mux/Demux ***NEW!***	16-TSSOP	1950.00/2,000		
SN74LV4066ADR	296-3834-1-ND	Quad Bilateral Analog Switch	14-SOIC	.75	.63	.50
SN74LV4066ADR	296-3834-2-ND	Quad Bilateral Analog Switch	14-SOIC	812.50/2,500		
SN74LV4066AN	296-3835-5-ND	Quad Bilateral Analog Switch	14-Dip	.75	.63	.50
SN74LV4066APW	296-3836-5-ND	Quad Bilateral Analog Switch	14-TSSOP	.75	.63	.50
SN74LV4066APWR	296-3836-1-ND	Quad Bilateral Analog Switch	14-TSSOP	.75	.63	.50
SN74LV4066APWR	296-3836-2-ND	Quad Bilateral Analog Switch	14-TSSOP	666.00/2,000		
SN74LV4066ARGYR	296-13948-1-ND	Quad Bilateral Analog Switch	14-QFN	.90	.75	.60
SN74LV4066ARGYR	296-13948-2-ND	Quad Bilateral Analog Switch	14-QFN	399.00/1,000		
SN74LV4320AGKFR	296-17919-1-ND	Low Power Dual Supply, Level Translating CompactFlash™ Interface	114-LFBGA	5.40	4.32	3.65
SN74LV4320AGKFR	296-17919-2-ND	Low Power Dual Supply, Level Translating CompactFlash™ Interface	114-LFBGA	3375.00/1,000		
CF4320HZKFR	296-19720-1-ND	CompactFlash™ Bus-Interface Chip	114-LFBGA	4.50	3.60	2.80
CF4320HZKFR	296-19720-2-ND	CompactFlash™ Bus-Interface Chip	114-LFBGA	2550.00/1,000		
SN74LV8151DGVR	296-18748-1-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-TVSOP	.87	.73	.58
SN74LV8151DGVR	296-18748-2-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-TVSOP	772.00/2,000		
SN74LV8151DWR	296-18749-1-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-SOIC	.87	.73	.58
SN74LV8151DWR	296-18749-2-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-SOIC	772.00/2,000		
SN74LV8151NT	296-17840-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-Dip	.87	.73	.58
SN74LV8151PWR	296-17994-1-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-TSSOP	.87	.73	.58
SN74LV8151PWR	296-17994-2-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-TSSOP	772.00/2,000		
SN74LV8153PWR	296-18750-1-ND	Serial-to-Parallel Interface	20-TSSOP	1.38	1.10	.83
SN74LV8153PWR	296-18750-2-ND	Serial-to-Parallel Interface	20-TSSOP	1430.00/2,000		
SN74LV8153QPWRQ1	296-17728-1-ND	Serial-to-Parallel Interface	20-TSSOP	1.61	1.29	.97
SN74LV8153QPWRQ1	296-17728-2-ND	Serial-to-Parallel Interface	20-TSSOP	1674.00/2,000		
SN74LV8154MPWREP	296-22578-1-ND	Tri-State Dual 16-Bit Binary Counter ***NEW!***	20-TSSOP	3.33	2.67	2.08
SN74LV8154MPWREP	296-22578-2-ND	Tri-State Dual 16-Bit Binary Counter ***NEW!***	20-TSSOP	3774.00/2,000		
SN74LV161284DGGR	296-1215-1-ND	19-Bit Bus Interface	48-TSSOP	3.04	2.43	1.89
SN74LV161284DGGR	296-1215-2-ND	19-Bit Bus Interface	48-TSSOP	3442.00/2,000		
SN74LV161284DL	296-1679-5-ND	19-Bit Bus Interface	48-SSOP	3.04	2.43	1.89
SN74LV161284DLR	296-3786-1-ND	19-Bit Bus Interface	48-SSOP	3.04	2.43	1.89
SN74LV161284DLR	296-3786-2-ND	19-Bit Bus Interface	48-SSOP	1721.00/1,000		

LVC Family

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
1P1G125QDCKRQ1	296-18348-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.46	.37	.26
1P1G125QDCKRQ1	296-18348-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	357.00/3,000		
1P1G3157QDBVRQ1	296-18349-1-ND	SPDT Analog Switch	SOT-23-6	.76	.62	.43
1P1G3157QDBVRQ1	296-18349-2-ND	SPDT Analog Switch	SOT-23-6	597.00/3,000		
1P1G3157QDCKRQ1	296-15610-1-ND	SPDT Analog Switch	SC70-6	.80	.60	.45
1P1G3157QDCKRQ1	296-15610-2-ND	SPDT Analog Switch	SC70-6	780.00/3,000		
CLVC1G125IDCKREP	296-19721-1-ND	Tri-St. Single Bus Buffer Gate ***NEW!***	SC70-5	.52	.39	.30
CLVC1G125IDCKREP	296-19721-2-ND	Tri-St. Single Bus Buffer Gate ***NEW!***	SC70-5	507.00/3,000		
CLVC1G125MDCKREP	296-20744-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	1.11	.93	.74
CLVC1G125MDCKREP	296-20744-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	1443.00/3,000		
CLVC1G126IDCKREP	296-22110-1-ND	Tri-St. Single Bus Buffer Gate ***NEW!***	SC70-5	.52	.39	.30
CLVC1G126IDCKREP	296-22110-2-ND	Tri-St. Single Bus Buffer Gate ***NEW!***	SC70-5	507.00/3,000		
CLVC1G175MDCKREP	296-22111-1-ND	Single D-Type F/F w/Async. Clear ***NEW!***	SC70-6	1.02	.85	.68
CLVC1G175MDCKREP	296-22111-2-ND	Single D-Type F/F w/Async. Clear ***NEW!***	SC70-6	1326.00/3,000		
CLVC16244AIDGGREP	296-22108-1-ND	Tri-St. 16-Bit Buffer/Driver ***NEW!***	48-TSSOP	2.13	1.70	1.28
CLVC16244AIDGGREP	296-22108-2-ND	Tri-St. 16-Bit Buffer/Driver ***NEW!***	48-TSSOP	2210.00/2,000		
CLVC16373AMDLREP	296-22109-1-ND	Tri-St. 16-Bit Transparent D-Type Latch ***NEW!***	48-SSOP	4.79	3.84	2.99
CLVC16373AMDLREP	296-22109-2-ND	Tri-St. 16-Bit Transparent D-Type Latch ***NEW!***	48-SSOP	2716.00/1,000		
SN74LVC1G00DBVR	296-9845-1-ND	Single 2-Input Positive NAND Gate	SOT-23-5	.40	.32	.22
SN74LVC1G00DBVR	296-9845-2-ND	Single 2-Input Positive NAND Gate	SOT-23-5	270.00/3,000		
SN74LVC1G00DCKR	296-9846-1-ND	Single 2-Input Positive NAND Gate	SC70	.40	.32	.22
SN74LVC1G00DCKR	296-9846-2-ND	Single 2-Input Positive NAND Gate	SC70	270.00/3,000		
SN74LVC1G00DRLR	296-18007-1-ND	Single 2-Input Positive NAND Gate	SOT-553-5	.42	.35	.24
SN74LVC1G00DRLR	296-18007-2-ND	Single 2-Input Positive NAND Gate	SOT-553-5	444.00/4,000		
SN74LVC1G00IDCKREP	296-22337-1-ND	Single 2-In. Positive NAND Gate ***NEW!***	SC70-5	.52	.39	.30
SN74LVC1G00IDCKREP	296-22337-2-ND	Single 2-In. Positive NAND Gate ***NEW!***	SC70-5	507.00/3,000		
SN74LVC1G00MDBVREP	296-22338-1-ND	Single 2-In. Positive NAND Gate ***NEW!***	SOT-23-5	1.02	.85	.68
SN74LVC1G00MDBVREP	296-22338-2-ND	Single 2-In. Positive NAND Gate ***NEW!***	SOT-23-5	1326.00/3,000		
SN74LVC1G00MDCKREP	296-22339-1-ND	Single 2-In. Positive NAND Gate ***NEW!***	SC70-5	1.02	.85	.68
SN74LVC1G00MDCKREP	296-22339-2-ND	Single 2-In. Positive NAND Gate ***NEW!***	SC70-5	1326.00/3,000		
SN74LVC1G00YEAR	296-14022-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.76	.57	.43
SN74LVC1G00YEAR	296-14022-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	741.00/3,000		
SN74LVC1G00YZAR	296-14023-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.76	.57	.43
SN74LVC1G00YZAR	296-14023-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	741.00/3,000		
SN74LVC1G00YZPR	296-14353-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.53	.42	.32
SN74LVC1G00YZPR	296-14353-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	426.00/3,000		
SN74LVC1G02DRLR	296-18318-1-ND	Single 2-Input Positive NOR Gate	SOT-553-5	.42	.35	.24
SN74LVC1G02DRLR	296-18318-2-ND	Single 2-Input Positive NOR Gate	SOT-553-5	444.00/4,000		
SN74LVC1G02MDCKREP	296-22340-1-ND	Single 2-Input Positive NOR Gate ***NEW!***	SC70-5	1.02	.85	.68
SN74LVC1G02MDCKREP	296-22340-2-ND	Single 2-Input Positive NOR Gate ***NEW!***	SC70-5	1326.00/3,000		
SN74LVC1G02YEAR	296-14024-1-ND	Single 2-Input Positive NOR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G02YEAR	296-14024-2-ND	Single 2-Input Positive NOR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G02YZAR	296-13249-1-ND	Single 2-Input Positive NOR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G02YZAR	296-13249-2-ND	Single 2-Input Positive NOR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G02YZPR	296-23021-1-ND	Single 2-Input Positive NOR Gate ***NEW!***	5-WCSP	.53	.42	.32
SN74LVC1G02YZPR	296-23021-2-ND	Single 2-Input Positive NOR Gate ***NEW!***	5-WCSP	426.00/3,000		
SN74LVC1G04DRLR	296-18008-1-ND	Single Inverter Gate	SOP-5	.42	.35	.24
SN74LVC1G04DRLR	296-18008-2-ND	Single Inverter Gate	SOP-5	444.00/4,000		
SN74LVC1G04DRYR	296-21814-1-ND	Single Inverter Gate	6-SON	.45	.36	.27
SN74LVC1G04DRYR	296-21814-2-ND	Single Inverter Gate	6-SON	585.00/5,000		
SN74LVC1G04MDBVREP	296-22341-1-ND	Single Inverter Gate ***NEW!***	SOT-23-5	.72	.54	.41
SN74LVC1G04MDBVREP	296-22341-2-ND	Single Inverter Gate ***NEW!***	SOT-23-5	702.00/3,000		
SN74LVC1G04QDCKRQ1	296-22895-1-ND	Single Inverter Gate ***NEW!***	SC70-5	.46	.37	.26
SN74LVC1G04QDCKRQ1	296-22895-2-ND	Single Inverter Gate ***NEW!***	SC70-5	357.00/3,000		
SN74LVC1G04YEAR	296-13250-1-ND	Single Inverter Gate	5-DSBGA	.76	.57	.43
SN74LVC1G04YEAR	296-13250-2-ND	Single Inverter Gate	5-DSBGA	741.00/3,000		
SN74LVC1G04YEPR	296-14354-1-ND	Single Inverter Gate	5-DSBGA	.76	.57	.43
SN74LVC1G04YEPR	296-14354-2-ND	Single Inverter Gate	5-DSBGA	741.00/3,000		
SN74LVC1G04YZAR	296-14025-1-ND	Single Inverter Gate	5-DSBGA	.76	.57	.43
SN74LVC1G04YZAR	296-14025-2-ND	Single Inverter Gate	5-DSBGA	741.00/3,000		
SN74LVC1G04YZPR	296-14355-1-ND	Single Inverter Gate	5-DSBGA	.53	.42	.32
SN74LVC1G04YZPR	296-14355-2-ND	Single Inverter Gate	5-DSBGA	426.00/3,000		
SN74LVC1G04YZVR	296-21055-1-ND	Single Inverter Gate	4-DSBGA	.53	.42	.32
SN74LVC1G04YZVR	296-21055-2-ND	Single Inverter Gate	4-DSBGA	426.00/3,000		
SN74LVC1G06DBVR	296-8483-1-ND	Single Inverter Buffer/Driver with OD Output	SOT-23-5	.38	.30	.22
SN74LVC1G06DBVR	296-8483-2-ND	Single Inverter Buffer/Driver with OD Output	SOT-23-5	258.00/3,000		
SN74LVC1G06DCKR	296-8484-1-ND	Single Inverter Buffer/Driver w/OD Output	SC70-5	.36	.29	.20
SN74LVC1G06DCKR	296-8484-2-ND	Single Inverter Buffer/Driver w/OD Output	SC70-5	282.00/3,000		
SN74LVC1G06DRLR	296-18009-1-ND	Single Inverter Buffer/Driver with OD Output	SOT-553-5	.42	.35	.24
SN74LVC1G06DRLR	296-18009-2-ND	Single Inverter Buffer/Driver with OD Output	SOT-553-5	444.00/4,000		
SN74LVC1G06MDCKREP	296-22342-1-ND	Single Inverter Buffer/Driver with OD Output ***NEW!***	SC70-5	1.35	1.13	.90
SN74LVC1G06MDCKREP	296-22342-2-ND	Single Inverter Buffer/Driver with OD Output ***NEW!***	SC70-5	1755.00/3,000		
SN74LVC1G06YEAR	296-14292-1-ND	Single Inverter Buffer/Driver w/OD Out	5-DSBGA	.76	.57	.43
SN74LVC1G06YEAR	296-14292-2-ND	Single Inverter Buffer/Driver w/OD Out	5-DSBGA	741.00/3,000		
SN74LVC1G06YEPR	296-18752-1-ND	Single Inverter Buffer/Driver w/OD Out	5-DSBGA	.76	.57	.43
SN74LVC1G06YEPR	296-18752-2-ND	Single Inverter Buffer/Driver w/OD Out	5-DSBGA	741.00/3,000		
SN74LVC1G06YZAR	296-14356-1-ND	Single Inverter Buffer/Driver w/OD Out	5-DSBGA	.76	.57	.43
SN74LVC1G06YZAR	296-14356-2-ND	Single Inverter Buffer/Driver w/OD Out	5-DSBGA	741.00/3,000		
SN74LVC1G06YZPR	296-20771-1-ND	Single Inverter Buffer/Driver with OD Output	5-WCSP	.53	.42	.32
SN74LVC1G06YZPR	296-20771-2-ND	Single Inverter Buffer/Driver with OD Output	5-WCSP	426.00/3,000		
SN74LVC1G06YZVR	296-21056-1-ND	Single Inverter Buffer/Driver with OD Output	4-DSBGA	.53	.42	.32
SN74LVC1G06YZVR	296-21056-2-ND	Single Inverter Buffer/Driver with OD Output	4-DSBGA	426.00/3,000		
SN74LVC1G07DBVR	296-8485-1-ND	Single Buffer/Driver with OD Output	SOT-23-5	.36	.29	.20
SN74LVC1G07DBVR	296-8485-2-ND	Single Buffer/Driver with OD Output	SOT-23-5	282.00/3,000		
SN74LVC1G07DCKR	296-8486-1-ND	Single Buffer/Driver with OD Output	SC70-5	.38	.30	.22
SN74LVC1G07DCKR	296-8486-2-ND	Single Buffer/Driver with OD Output	SC70-5	258.00/3,000		
SN74LVC1G07DRLR	296-18010-1-ND	Single Buffer/Driver with OD Output	SOT-533	.46	.37	.26
SN74LVC1G07DRLR	296-18010-2-ND	Single Buffer/Driver with OD Output	SOT-533	476.00/4,000		
SN74LVC1G07DRYR	296-21544-1-ND	Single Buffer/Driver with OD Output	6-SON	.45	.36	.27
SN74LVC1G07DRYR	296-21544-2-ND	Single Buffer/Driver with OD Output	6-SON	585.00/5,000		
SN74LVC1G07MDCKREP	296-22343-1-ND	Single Buffer/Driver with OD Out ***NEW!***	SC70-5	.84	.63	.48
SN74LVC1G07MDCKREP	296-22343-2-ND	Single Buffer/Driver with OD Out ***NEW!***	SC70-5	819.00/3,000		
SN74LVC1G07YEAR	296-13251-1-ND	Single Buffer/Driver with OD Output	5-DSBGA	.76	.57	.43
SN74LVC1G07YEAR	296-13251-2-ND	Single Buffer/Driver with OD Output	5-DSBGA	741.00/3,000		
SN74LVC1G07YZAR	296-14026-1-ND	Single Buffer/Driver with OD Output	5-DSBGA	.76	.57	.43
SN74LVC1G07YZAR	296-14026-2-ND	Single Buffer/Driver with OD Output	5-DSBGA	741.00/3,000		
SN74LVC1G07YZPR	296-23273-1-ND	Single Buffer/Driver w/OD Out ***NEW!***	5-DSBGA	.53	.42	.32
SN74LVC1G07YZPR	296-23273-2-ND	Single Buffer/Driver w/OD Out ***NEW!***	5-DSBGA	426.00/3,000		
SN74LVC1G07YZVR	296-21057-1-ND	Single Buffer/Driver with OD Output	4-DSBGA	.53	.42	.32
SN74LVC1G07YZVR	296-21057-2-ND	Single Buffer/Driver with OD Output	4-DSBGA	426.00/3,000		
SN74LVC1G08DCKR	296-11602-1-ND	Single 2-Input Positive AND Gate	SC70-5	.40	.32	.22
SN74LVC1G08DCKR	296-11602-2-ND	Single 2-Input Positive AND Gate	SC70-5	270.00/3,000		
SN74LVC1G08DRLR	296-18011-1-ND	Single 2-Input Positive AND Gate	SOT-553-5	.42	.35	.24
SN74LVC1G08DRLR	296-18011-2-ND	Single 2-Input Positive AND Gate	SOT-553-5	444.00/4,000		
SN74LVC1G08DRYR	296-21815-1-ND	Single 2-Input Positive AND Gate	6-SON	.45	.36	.27
SN74LVC1G08DRYR	296-21815-2-ND	Single 2-Input Positive AND Gate	6-SON	585.00/5,000		
SN74LVC1G08IDCKREP	296-22344-1-ND	Single 2-In. Positive AND Gate ***NEW!***	SC70-5	.52	.39	.30
SN74LVC1G08IDCKREP	296-22344-2-ND	Single 2-In. Positive AND Gate ***NEW!***	SC70-5	507.00/3,000		
SN74LVC1G08MDBVREP	296-22345-1-ND	Single 2-In. Positive AND Gate ***NEW!***	SOT-23-5	1.02	.85	.68
SN74LVC1G08MDBVREP	296-22345-2-ND	Single 2-In. Positive AND Gate ***NEW!***	SOT-23-5	1326.00/3,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC1G08MDCKREP	296-20772-1-ND	Single 2-Input Positive AND Gate	SC70-5	1.02	.85	.68
SN74LVC1G08MDCKREP	296-20772-2-ND	Single 2-Input Positive AND Gate	SC70-5		1326.00/3,000	
SN74LVC1G08QDCKRQ1	296-20728-1-ND	Single 2-Input Positive AND Gate	SC70-5	.46	.37	.26
SN74LVC1G08QDCKRQ1	296-20728-2-ND	Single 2-Input Positive AND Gate	SC70-5		357.00/3,000	
SN74LVC1G08YEAR	296-12474-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.76	.57	.43
SN74LVC1G08YEAR	296-12474-2-ND	Single 2-Input Positive AND Gate	5-DSBGA		741.00/3,000	
SN74LVC1G08YEPR	296-14357-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.76	.57	.43
SN74LVC1G08YEPR	296-14357-2-ND	Single 2-Input Positive AND Gate	5-DSBGA		741.00/3,000	
SN74LVC1G08YZAR	296-13252-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.76	.57	.43
SN74LVC1G08YZAR	296-13252-2-ND	Single 2-Input Positive AND Gate	5-DSBGA		741.00/3,000	
SN74LVC1G08YZPR	296-14358-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.53	.42	.32
SN74LVC1G08YZPR	296-14358-2-ND	Single 2-Input Positive AND Gate	5-DSBGA		426.00/3,000	
SN74LVC1G0832DBVR	296-18753-1-ND	Single 3-Input Positive AND/OR Gate	SOT-23-6	.55	.44	.33
SN74LVC1G0832DBVR	296-18753-2-ND	Single 3-Input Positive AND/OR Gate	SOT-23-6		447.00/3,000	
SN74LVC1G0832DCKR	296-18754-1-ND	Single 3-Input Positive AND/OR Gate	SC70-5	.55	.44	.33
SN74LVC1G0832DCKR	296-18754-2-ND	Single 3-Input Positive AND/OR Gate	SC70-5		447.00/3,000	
SN74LVC1G0832YZPR	296-18199-1-ND	Single 3-Input Positive AND/OR Gate	6-DSBGA	.52	.39	.30
SN74LVC1G0832YZPR	296-18199-2-ND	Single 3-Input Positive AND/OR Gate	6-DSBGA		507.00/3,000	
SN74LVC1G10DBVR	296-18755-1-ND	Single 3-Input Positive NAND Gate	SOT-23-6	.39	.32	.22
SN74LVC1G10DBVR	296-18755-2-ND	Single 3-Input Positive NAND Gate	SOT-23-6		306.00/3,000	
SN74LVC1G10DCKR	296-17844-1-ND	Single 3-Input Positive NAND Gate	SC70-6	.39	.32	.22
SN74LVC1G10DCKR	296-17844-2-ND	Single 3-Input Positive NAND Gate	SC70-6		306.00/3,000	
SN74LVC1G10YZPR	296-18756-1-ND	Single 3-Input Positive NAND Gate	6-DSBGA	.50	.38	.29
SN74LVC1G10YZPR	296-18756-2-ND	Single 3-Input Positive NAND Gate	6-DSBGA		489.00/3,000	
SN74LVC1G11DBVR	296-16810-1-ND	Single 3-Input Positive AND Gate	SOT-23-6	.39	.32	.22
SN74LVC1G11DBVR	296-16810-2-ND	Single 3-Input Positive AND Gate	SOT-23-6		306.00/3,000	
SN74LVC1G11DCKR	296-18066-1-ND	Single 3-Input Positive AND Gate	SC70-6	.39	.32	.22
SN74LVC1G11DCKR	296-18066-2-ND	Single 3-Input Positive AND Gate	SC70-6		306.00/3,000	
SN74LVC1G11YZPR	296-18757-1-ND	Single 3-Input Positive AND Gate	6-DSBGA	.50	.38	.29
SN74LVC1G11YZPR	296-18757-2-ND	Single 3-Input Positive AND Gate	6-DSBGA		489.00/3,000	
SN74LVC1G14DRLR	296-18014-1-ND	Single Schmitt-Trigger Inverter	SOT-553-5	.46	.37	.26
SN74LVC1G14DRLR	296-18014-2-ND	Single Schmitt-Trigger Inverter	SOT-553-5		476.00/4,000	
SN74LVC1G14DRYR	296-21545-1-ND	Single Schmitt-Trigger Inverter	6-SON	.45	.36	.27
SN74LVC1G14DRYR	296-21545-2-ND	Single Schmitt-Trigger Inverter	6-SON		585.00/5,000	
SN74LVC1G14MDBVREP	296-22346-1-ND	Single Schmitt-Trigger Inverter ***NEW!***	SOT-23-5	.72	.54	.41
SN74LVC1G14MDBVREP	296-22346-2-ND	Single Schmitt-Trigger Inverter ***NEW!***	SOT-23-5		702.00/3,000	
SN74LVC1G14MDCKREP	296-22347-1-ND	Single Schmitt-Trigger Inverter ***NEW!***	SOT-23-5	.72	.54	.41
SN74LVC1G14MDCKREP	296-22347-2-ND	Single Schmitt-Trigger Inverter ***NEW!***	SOT-23-5		702.00/3,000	
SN74LVC1G14YEAR	296-13037-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.76	.57	.43
SN74LVC1G14YEAR	296-13037-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA		741.00/3,000	
SN74LVC1G14YEPR	296-14362-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.76	.57	.43
SN74LVC1G14YEPR	296-14362-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA		741.00/3,000	
SN74LVC1G14YZAR	296-13038-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.76	.57	.43
SN74LVC1G14YZAR	296-13038-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA		741.00/3,000	
SN74LVC1G14YZPR	296-14363-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.53	.42	.32
SN74LVC1G14YZPR	296-14363-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA		426.00/3,000	
SN74LVC1G14YZVR	296-20701-1-ND	Single Schmitt-Trigger Inverter	4-DSBGA	.53	.42	.32
SN74LVC1G14YZVR	296-20701-2-ND	Single Schmitt-Trigger Inverter	4-DSBGA		426.00/3,000	
SN74LVC1G17DBVR	296-11933-1-ND	Single Schmitt-Trigger Buffer	SOT-23-5	.38	.30	.22
SN74LVC1G17DBVR	296-11933-2-ND	Single Schmitt-Trigger Buffer	SOT-23-5		258.00/3,000	
SN74LVC1G17DCKR	296-11934-1-ND	Single Schmitt-Trigger Buffer	SC70-5	.36	.29	.20
SN74LVC1G17DCKR	296-11934-2-ND	Single Schmitt-Trigger Buffer	SC70-5		282.00/3,000	
SN74LVC1G17DRLR	296-18585-1-ND	Single Schmitt-Trigger Buffer	SOT-553-5	.39	.32	.22
SN74LVC1G17DRLR	296-18585-2-ND	Single Schmitt-Trigger Buffer	SOT-553-5		408.00/4,000	
SN74LVC1G17DRYR	296-21546-1-ND	Single Schmitt-Trigger Buffer	6-SON	.45	.36	.27
SN74LVC1G17DRYR	296-21546-2-ND	Single Schmitt-Trigger Buffer	6-SON		585.00/5,000	
SN74LVC1G17MDBVREP	296-21818-1-ND	Single Schmitt-Trigger Buffer	SOT-23-5	.93	.78	.62
SN74LVC1G17MDBVREP	296-21818-2-ND	Single Schmitt-Trigger Buffer	SOT-23-5		1209.00/3,000	
SN74LVC1G17MDCKREP	296-20773-1-ND	Single Schmitt-Trigger Buffer	SC70-5	1.02	.85	.68
SN74LVC1G17MDCKREP	296-20773-2-ND	Single Schmitt-Trigger Buffer	SC70-5		1326.00/3,000	
SN74LVC1G17YEAR	296-15566-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.76	.57	.43
SN74LVC1G17YEAR	296-15566-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA		741.00/3,000	
SN74LVC1G17YZAR	296-15567-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.76	.57	.43
SN74LVC1G17YZAR	296-15567-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA		741.00/3,000	
SN74LVC1G17YZPR	296-18761-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.53	.42	.32
SN74LVC1G17YZPR	296-18761-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA		426.00/3,000	
SN74LVC1G17YZVR	296-21060-1-ND	Single Schmitt-Trigger Buffer	4-DSBGA	.53	.42	.32
SN74LVC1G17YZVR	296-21060-2-ND	Single Schmitt-Trigger Buffer	4-DSBGA		426.00/3,000	
SN74LVC1G18DBVR	296-15568-1-ND	Tri-State 1-of-2 Noninverting Demux	SOT-23-6	.42	.35	.24
SN74LVC1G18DBVR	296-15568-2-ND	Tri-State 1-of-2 Noninverting Demux	SOT-23-6		333.00/3,000	
SN74LVC1G18DCKR	296-15569-1-ND	Tri-State 1-of-2 Noninverting Demux	SC70-6	.78	.59	.43
SN74LVC1G18DCKR	296-15569-2-ND	Tri-State 1-of-2 Noninverting Demux	SC70-6		459.00/3,000	
SN74LVC1G18YEAR	296-15570-1-ND	Tri-State 1-of-2 Noninverting Demux	6-DSBGA	.76	.57	.43
SN74LVC1G18YEAR	296-15570-2-ND	Tri-State 1-of-2 Noninverting Demux	6-DSBGA		741.00/3,000	
SN74LVC1G18YZAR	296-15571-1-ND	Tri-State 1-of-2 Noninverting Demux	6-DSBGA	.76	.57	.43
SN74LVC1G18YZAR	296-15571-2-ND	Tri-State 1-of-2 Noninverting Demux	6-DSBGA		741.00/3,000	
SN74LVC1G19DBVR	296-16982-1-ND	1-of-2 Decoder/Demux	SOT-23-6	.42	.35	.24
SN74LVC1G19DBVR	296-16982-2-ND	1-of-2 Decoder/Demux	SOT-23-6		333.00/3,000	
SN74LVC1G19DCKR	296-17991-1-ND	1-of-2 Decoder/Demux	SC70-6	.42	.35	.24
SN74LVC1G19DCKR	296-17991-2-ND	1-of-2 Decoder/Demux	SC70-6		333.00/3,000	
SN74LVC1G19DRLR	296-18319-1-ND	1-of-2 Decoder/Demux	SOT-553-6	.49	.40	.27
SN74LVC1G19DRLR	296-18319-2-ND	1-of-2 Decoder/Demux	SOT-553-6		512.00/4,000	
SN74LVC1G19DRYR	296-21547-1-ND	1-of-2 Decoder/Demux	6-SON	.48	.38	.29
SN74LVC1G19DRYR	296-21547-2-ND	1-of-2 Decoder/Demux	6-SON		620.00/5,000	
SN74LVC1G19YEPR	296-18762-1-ND	1-of-2 Decoder/Demux	6-DSBGA	.76	.57	.43
SN74LVC1G19YEPR	296-18762-2-ND	1-of-2 Decoder/Demux	6-DSBGA		741.00/3,000	
SN74LVC1G19YZPR	296-18586-1-ND	1-of-2 Decoder/Demux	6-WCSP	.48	.36	.27
SN74LVC1G19YZPR	296-18586-2-ND	1-of-2 Decoder/Demux	6-WCSP		468.00/3,000	
SN74LVC1G27DBVR	296-17119-1-ND	Single 3-Input Positive NOR Gate	SOT-23-6	.39	.32	.22
SN74LVC1G27DBVR	296-17119-2-ND	Single 3-Input Positive NOR Gate	SOT-23-6		306.00/3,000	
SN74LVC1G27DCKR	296-18764-1-ND	Single 3-Input Positive NOR Gate	SC70-6	.40	.32	.24
SN74LVC1G27DCKR	296-18764-2-ND	Single 3-Input Positive NOR Gate	SC70-6		324.00/3,000	
SN74LVC1G27YEPR	296-18765-1-ND	Single 3-Input Positive NOR Gate	6-DSBGA	.76	.57	.43
SN74LVC1G27YEPR	296-18765-2-ND	Single 3-Input Positive NOR Gate	6-DSBGA		741.00/3,000	
SN74LVC1G27YZPR	296-18766-1-ND	Single 3-Input Positive NOR Gate	6-DSBGA	.53	.42	.32
SN74LVC1G27YZPR	296-18766-2-ND	Single 3-Input Positive NOR Gate	6-DSBGA		426.00/3,000	
SN74LVC1G29DCTR	296-18767-1-ND	2-of-3 Decoder/Demux	SM8	.50	.38	.29
SN74LVC1G29DCTR	296-18767-2-ND	2-of-3 Decoder/Demux	SM8		489.00/3,000	
SN74LVC1G29DCUR	296-18768-1-ND	2-of-3 Decoder/Demux	US8	.50	.38	.29
SN74LVC1G29DCUR	296-18768-2-ND	2-of-3 Decoder/Demux	US8		489.00/3,000	
SN74LVC1G29YZPR	296-18769-1-ND	2-of-3 Decoder/Demux	8-DSBGA	.50	.38	.29
SN74LVC1G29YZPR	296-18769-2-ND	2-of-3 Decoder/Demux	8-DSBGA		489.00/3,000	
SN74LVC1G32DBVR	296-9847-1-ND	Single 2-Input Positive OR Gate	SOT-23-5	.40	.32	.22
SN74LVC1G32DBVR	296-9847-2-ND	Single 2-Input Positive OR Gate	SOT-23-5		270.00/3,000	
SN74LVC1G32DCKR	296-9848-1-ND	Single 2-Input Positive OR Gate	SC70	.40	.32	.22
SN74LVC1G32DCKR	296-9848-2-ND	Single 2-Input Positive OR Gate	SC70		270.00/3,000	
SN74LVC1G32DRLR	296-18016-1-ND	Single 2-Input Positive OR Gate	SOT-553-5	.48	.36	.27
SN74LVC1G32DRLR	296-18016-2-ND	Single 2-Input Positive OR Gate	SOT-553-5		624.00/4,000	
SN74LVC1G32DRYR	296-21549-1-ND	Single 2-Input Positive OR Gate	6-SON	.45	.36	.27
SN74LVC1G32DRYR	296-21549-2-ND	Single 2-Input Positive OR Gate	6-SON		585.00/5,000	
SN74LVC1G32IDCKREP	296-22348-1-ND	Single 2-In. Positive OR Gate ***NEW!***	SC70-5	.52	.39	.30
SN74LVC1G32IDCKREP	296-22348-2-ND	Single 2-In. Positive OR Gate ***NEW!***	SC70-5		507.00/3,000	
SN74LVC1G32MDBVREP	296-22349-1-ND	Single 2-In. Positive OR Gate ***NEW!***	SOT-23-5	1.02	.85	.68
SN74LVC1G32MDBVREP	296-22349-2-ND	Single 2-In. Positive OR Gate ***NEW!***	SOT-23-5		1326.00/3,000	
SN74LVC1G32MDCKREP	296-22350-1-ND	Single 2-In. Positive OR Gate ***NEW!***	SC70-5	1.02	.85	.68
SN74LVC1G32MDCKREP	296-22350-2-ND	Single 2-In. Positive OR Gate ***NEW!***	SC70-5		1326.00/3,000	
SN74LVC1G32YEAR	296-13039-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G32YEAR	296-13039-2-ND	Single 2-Input Positive OR Gate	5-DSBGA		741.00/3,000	
SN74LVC1G32YZAR	296-14028-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G32YZAR	296-14028-2-ND	Single 2-Input Positive OR Gate	5-DSBGA		741.00/3,000	
SN74LVC1G32YZPR	296-14365-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.53	.42	.32
SN74LVC1G32YZPR	296-14365-2-ND	Single 2-Input Positive OR Gate	5-DSBGA		426.00/3,000	
SN74LVC1G34DBVR	296-17893-1-ND	Single Buffer Gate	SOT-23-5	.39	.32	.22
SN74LVC1G34DBVR	296-17893-2-ND	Single Buffer Gate	SOT-23-5		306.00/3,000	
SN74LVC1G34DCKR	296-17230-1-ND	Single Buffer Gate	SC70-5	.39	.32	.22
SN74LVC1G34DCKR	296-17230-2-ND	Single Buffer Gate	SC70-5		306.00/3,000	
SN74LVC1G34DRLR	296-18017-1-ND	Single Buffer Gate	SOT-553-5	.42	.35	.24
SN74LVC1G34DRLR	296-18017-2-ND	Single Buffer Gate	SOT-553-5		444.00/4,000	
SN74LVC1G34YZPR	296-18773-1-ND	Single Buffer Gate	5-DSBGA	.53	.42	.32
SN74LVC1G34YZPR	296-18773-2-ND	Single Buffer Gate	5-DSBGA		426.00/3,000	
SN74LVC1G34YZVR	296-21062-1-ND	Single Buffer Gate	4-DSBGA	.53	.42	.32
SN74LVC1G34YZVR	296-21062-2-ND	Single Buffer Gate	4-DSBGA		426.00/3,000	
SN74LVC1G38DBVR	296-17846-1-ND	Single 2-Input NAND Gate with Open Drain Output	SOT-23-5	.39	.32	.22
SN74LVC1G38DBVR	296-17846-2-ND	Single 2-Input NAND Gate with Open Drain Output	SOT-23-5		306.00/3,000	
SN74LVC1G38DCKR	296-17907-1-ND	Single 2-Input NAND Gate with Open Drain Output	SC70-5	.39	.32	.22
SN74LVC1G38DCKR	296-17907-2-ND	Single 2-Input NAND Gate with Open Drain Output	SC70-5		306.00/3,000	
SN74LVC1G38YZPR	296-18783-1-ND	Single 2-Input NAND Gate with Open Drain Output	5-DSBGA	.53	.42	.32
SN74LVC1G38YZPR	296-18783-2-ND	Single 2-Input NAND Gate with Open Drain Output	5-DSBGA		426.00/3,000	
SN74LVC1G57DBVR	296-15574-1-ND	Configurable Multiple-Function Gate	SOT-23-6	.39	.32	.22
SN74LVC1G57DBVR	296-15574-2-ND	Configurable Multiple-Function Gate	SOT-23-6		306.00/3,000	
SN74LVC1G57DCKR	296-15575-1-ND	Configurable Multiple-Function Gate	SC70-6	.39	.32	.22
SN74LVC1G57DCKR	296-15575-2-ND	Configurable Multiple-Function Gate	SC70-6		306.00/3,000	
SN74LVC1G57DRLR	296-18653-1-ND	Configurable Multiple-Function Gate	SOT-553-6	.46	.37	.26
SN74LVC1G57DRLR	296-18653-2-ND	Configurable Multiple-Function Gate	SOT-553-6		476.00/4,000	
SN74LVC1G57YEAR	296-14293-1-ND	Configurable Multiple-Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G57YEAR	296-14293-2-ND	Configurable Multiple-Function Gate	6-DSBGA		741.00/3,000	
SN74LVC1G57YZPR	296-18784-1-ND	Configurable Multiple-Function Gate	6-DSBGA	.53	.42	.32
SN74LVC1G57YZPR	296-18784-2-ND	Configurable Multiple-Function Gate	6-DSBGA		426.00/3,000	
SN74LVC1G58DBVR	296-15576-1-ND	Configurable Multiple-Function Gate	SOT-23-6	.39	.32	.22
SN74LVC1G58DBVR	296-15576-2-ND	Configurable Multiple-Function Gate	SOT-23-6		306.00/3,000	
SN74LVC1G58DCKR	296-15577-1-ND	Configurable Multiple-Function Gate	SC70-6	.39	.32	.22
SN74LVC1G58DCKR	296-15577-2-ND	Configurable Multiple-Function Gate	SC70-6		306.00/3,000	
SN74LVC1G58DRLR	296-18654-1-ND	Configurable Multiple-Function Gate	SOT-563-6	.46	.37	.26
SN74LVC1G58DRLR	296-18654-2-ND	Configurable Multiple-Function Gate	SOT-563-6		476.00/4,000	
SN74LVC1G58YEAR	296-14294-1-ND	Configurable Multiple-Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G58YEAR	296-14294-2-ND	Configurable Multiple-Function Gate	6-DSBGA		741.00/3,000	
SN74LVC1G58YZPR	296-18785-1-ND	Configurable Multiple-Function Gate	6-DSBGA	.53	.42	.32
SN74LVC1G58YZPR	296-18785-2-ND	Configurable Multiple-Function Gate	6-DSBGA		426.00/3,000	
SN74LVC1G66DBVR	296-13253-1-ND	Single Bilateral Analog Switch	SOT-23-5	.46	.37	.26
SN74LVC1G66DBVR	296-13253-2-ND	Single Bilateral Analog Switch	SOT-23-5		357.00/3,000	
SN74LVC1G66DCKR	296-13254-1-ND	Single Bilateral Analog Switch	SC-70-5	.50	.41	.28
SN74LVC1G66DCKR	296-13254-2-ND	Single Bilateral Analog Switch	SC-70-5		393.00/3,000	
SN74LVC1G66DRLR	296-18018-1-ND	Single Bilateral Analog Switch	SOT-553-5	.45	.36	.27
SN74LVC1G66DRLR	296-18018-2-ND	Single Bilateral Analog Switch	SOT-553-5		488.00/4,000	
SN74LVC1G66YEAR	296-13255-1-ND	Single Bilateral Analog Switch	5-DSBGA	.76	.57	.43
SN74LVC1G66YEAR	296-13255-2-ND	Single Bilateral Analog Switch	5-DSBGA		741.00/3,000	
SN74LVC1G66YEPR	296-18786-1-ND	Single Bilateral Analog Switch	5-DSBGA	.76	.57	.43
SN74LVC1G66YEPR	296-18786-2-ND	Single Bilateral Analog Switch	5-DSBGA		741.00/3,000	
SN74LVC1G66YZAR	296-14029-1-ND	Single Bilateral Analog Switch	5-DSBGA	.76	.57	.43
SN74LVC1G66YZAR	296-14029-2-ND	Single Bilateral Analog Switch	5-DSBGA		741.00/3,000	
SN74LVC1G66YZPR	296-15108-1-ND	Single Bilateral Analog Switch	5-DSBGA	.48	.36	.27
SN74LVC1G66YZPR	296-15108-2-ND	Single Bilateral Analog Switch	5-DSBGA		468.00/3,000	
SN74LVC1G79DBVR	296-9849-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	.39	.32	.22
SN74LVC1G79DBVR	296-9849-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5		306.00/3,000	
SN74LVC1G79DCKR	296-9850-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	.39	.32	.22
SN74LVC1G79DCKR	296-9850-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5		306.00/3,000	
SN74LVC1G79DRLR	296-18019-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-533	.46	.37	.26
SN74LVC1G79DRLR	296-18019-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-533		476.00/4,000	
SN74LVC1G79WDCKREP	296-19506-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	.88	.66	.50
SN74LVC1G79WDCKREP	296-19506-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5		858.00/3,000	
SN74LVC1G79YEAR	296-14030-1-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	.76	.57	.43
SN74LVC1G79YEAR	296-14030-2-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA		741.00/3,000	
SN74LVC1G79YEPR	296-18787-1-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	.76	.57	.43
SN74LVC1G79YEPR	296-18787-2-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA		741.00/3,000	
SN74LVC1G79YZAR	296-15578-1-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	.76	.57	.43
SN74LVC1G79YZAR	296-15578-2-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA		741.00/3,000	
SN74LVC1G79YZPR	296-18788-1-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	.53	.42	.32
SN74LVC1G79YZPR	296-18788-2-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA		426.00/3000	

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC1G80DBVR	296-9851-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	.36	.29	.20
SN74LVC1G80DBVR	296-9851-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	282.00/3,000		
SN74LVC1G80DCKR	296-9852-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	.36	.29	.20
SN74LVC1G80DCKR	296-9852-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	282.00/3,000		
SN74LVC1G80YEAR	296-15579-1-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	.76	.57	.43
SN74LVC1G80YEAR	296-15579-2-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	741.00/3,000		
SN74LVC1G80YEPR	296-18789-1-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	.76	.57	.43
SN74LVC1G80YEPR	296-18789-2-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	741.00/3,000		
SN74LVC1G80YZAR	296-14031-1-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	.76	.57	.43
SN74LVC1G80YZAR	296-14031-2-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	741.00/3,000		
SN74LVC1G80YZPR	296-18790-1-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	.53	.42	.32
SN74LVC1G80YZPR	296-18790-2-ND	Positive-Edge-Trig. D-Type Flip-Flop	5-DSBGA	426.00/3,000		
SN74LVC1G86DBVR	296-9853-1-ND	2-Input Exclusive OR Gate	SOT-23-5	.36	.29	.20
SN74LVC1G86DBVR	296-9853-2-ND	2-Input Exclusive OR Gate	SOT-23-5	282.00/3,000		
SN74LVC1G86DCKR	296-9854-1-ND	2-Input Exclusive OR Gate	SC70	.36	.29	.20
SN74LVC1G86DCKR	296-9854-2-ND	2-Input Exclusive OR Gate	SC70	282.00/3,000		
SN74LVC1G86DRLR	296-18613-1-ND	2-Input Exclusive OR Gate	SOT-553-5	.46	.37	.26
SN74LVC1G86DRLR	296-18613-2-ND	2-Input Exclusive OR Gate	SOT-553-5	476.00/4,000		
SN74LVC1G86MDCKREP	296-22351-1-ND	2-Input Exclusive OR Gate ***NEW!***	SC70-5	1.11	.93	.74
SN74LVC1G86MDCKREP	296-22351-2-ND	2-Input Exclusive OR Gate ***NEW!***	SC70-5	1443.00/3,000		
SN74LVC1G86YEAR	296-15580-1-ND	2-Input Exclusive OR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G86YEAR	296-15580-2-ND	2-Input Exclusive OR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G86YEPR	296-18791-1-ND	2-Input Exclusive OR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G86YEPR	296-18791-2-ND	2-Input Exclusive OR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G86YZAR	296-14032-1-ND	2-Input Exclusive OR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G86YZAR	296-14032-2-ND	2-Input Exclusive OR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G86YZPR	296-18792-1-ND	2-Input Exclusive OR Gate	5-DSBGA	.53	.42	.32
SN74LVC1G86YZPR	296-18792-2-ND	2-Input Exclusive OR Gate	5-DSBGA	426.00/3,000		
SN74LVC1G97DBVR	296-15581-1-ND	Configurable Multiple Function Gate	SOT-23-6	.39	.32	.22
SN74LVC1G97DBVR	296-15581-2-ND	Configurable Multiple Function Gate	SOT-23-6	234.00/3,000		
SN74LVC1G97DCKR	296-15582-1-ND	Configurable Multiple Function Gate	SC70-6	.39	.32	.22
SN74LVC1G97DCKR	296-15582-2-ND	Configurable Multiple Function Gate	SC70-6	234.00/3,000		
SN74LVC1G97DRLR	296-18655-1-ND	Configurable Multiple Function Gate	SOT-563-6	.46	.37	.26
SN74LVC1G97DRLR	296-18655-2-ND	Configurable Multiple Function Gate	SOT-563-6	476.00/4,000		
SN74LVC1G97IDCKREP	296-22352-1-ND	Config. Multiple Function Gate ***NEW!***	SC70-6	.60	.45	.34
SN74LVC1G97IDCKREP	296-22352-2-ND	Config. Multiple Function Gate ***NEW!***	SC70-6	585.00/3,000		
SN74LVC1G97QDCKRQ1	296-17671-1-ND	Configurable Multiple Function Gate	SC70-6	.46	.37	.26
SN74LVC1G97QDCKRQ1	296-17671-2-ND	Configurable Multiple Function Gate	SC70-6	357.00/3,000		
SN74LVC1G97YEAR	296-14366-1-ND	Configurable Multiple Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G97YEAR	296-14366-2-ND	Configurable Multiple Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G97YEPR	296-16851-1-ND	Configurable Multiple Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G97YEPR	296-16851-2-ND	Configurable Multiple Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G97YZAR	296-14367-1-ND	Configurable Multiple Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G97YZAR	296-14367-2-ND	Configurable Multiple Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G97YZPR	296-16852-1-ND	Configurable Multiple Function Gate	6-DSBGA	.50	.38	.29
SN74LVC1G97YZPR	296-16852-2-ND	Configurable Multiple Function Gate	6-DSBGA	489.00/3,000		
SN74LVC1G98DBVR	296-15583-1-ND	Configurable Multiple Function Gate	SOT-23-6	.42	.35	.24
SN74LVC1G98DBVR	296-15583-2-ND	Configurable Multiple Function Gate	SOT-23-6	333.00/3,000		
SN74LVC1G98DCKR	296-15584-1-ND	Configurable Multiple Function Gate	SC70-6	.39	.32	.22
SN74LVC1G98DCKR	296-15584-2-ND	Configurable Multiple Function Gate	SC70-6	234.00/3,000		
SN74LVC1G98DRLR	296-18656-1-ND	Configurable Multiple Function Gate	SOT-6	.46	.37	.26
SN74LVC1G98DRLR	296-18656-2-ND	Configurable Multiple Function Gate	SOT-6	476.00/4,000		
SN74LVC1G98IDCKREP	296-22353-1-ND	Config. Multiple Function Gate ***NEW!***	SC70-6	.60	.45	.34
SN74LVC1G98IDCKREP	296-22353-2-ND	Config. Multiple Function Gate ***NEW!***	SC70-6	585.00/3,000		
SN74LVC1G98QDCKRQ1	296-17672-1-ND	Configurable Multiple Function Gate	SC70-6	.46	.37	.26
SN74LVC1G98QDCKRQ1	296-17672-2-ND	Configurable Multiple Function Gate	SC70-6	357.00/3,000		
SN74LVC1G98YEAR	296-14368-1-ND	Configurable Multiple Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G98YEAR	296-14368-2-ND	Configurable Multiple Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G98YEPR	296-18793-1-ND	Configurable Multiple Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G98YEPR	296-18793-2-ND	Configurable Multiple Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G98YZAR	296-14369-1-ND	Configurable Multiple Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G98YZAR	296-14369-2-ND	Configurable Multiple Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G98YZPR	296-23274-1-ND	Config. Multiple Function Gate ***NEW!***	6-DSBGA	.50	.38	.29
SN74LVC1G98YZPR	296-23274-2-ND	Config. Multiple Function Gate ***NEW!***	6-DSBGA	489.00/3,000		
SN74LVC1G99DCTR	296-18590-1-ND	Tri-State Ultra Configurable Multiple Function Gate	SM8	.55	.44	.33
SN74LVC1G99DCTR	296-18590-2-ND	Tri-State Ultra Configurable Multiple Function Gate	SM8	447.00/3,000		
SN74LVC1G99DCUR	296-18795-1-ND	Tri-State Ultra Configurable Multiple Function Gate	US8	.55	.44	.33
SN74LVC1G99DCUR	296-18795-2-ND	Tri-State Ultra Configurable Multiple Function Gate	US8	447.00/3,000		
SN74LVC1G99YZPR	296-17900-1-ND	Tri-State Ultra Configurable Multiple Function Gate	8-WCSP	.52	.39	.30
SN74LVC1G99YZPR	296-17900-2-ND	Tri-State Ultra Configurable Multiple Function Gate	8-WCSP	507.00/3,000		
SN74LVC1G123DCTR	296-18758-1-ND	Single Retriggerable Mono Multivibrator	SM8	.50	.38	.29
SN74LVC1G123DCTR	296-18758-2-ND	Single Retriggerable Mono Multivibrator	SM8	489.00/3,000		
SN74LVC1G123YZPR	296-21058-1-ND	Single Retriggerable Mono Multivibrator	8-DSBGA	.64	.48	.36
SN74LVC1G123YZPR	296-21058-2-ND	Single Retriggerable Mono Multivibrator	8-DSBGA	624.00/3,000		
SN74LVC1G125DRLR	296-18012-1-ND	Tri-State Single Bus Buffer Gate	SOP-5	.46	.37	.26
SN74LVC1G125DRLR	296-18012-2-ND	Tri-State Single Bus Buffer Gate	SOP-5	476.00/4,000		
SN74LVC1G125DRYR	296-21816-1-ND	Tri-State Single Bus Buffer Gate	6-SON	.45	.36	.27
SN74LVC1G125DRYR	296-21816-2-ND	Tri-State Single Bus Buffer Gate	6-SON	585.00/5,000		
SN74LVC1G125YEAR	296-14359-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.76	.57	.43
SN74LVC1G125YEAR	296-14359-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	741.00/3,000		
SN74LVC1G125YZPR	296-18759-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.53	.42	.32
SN74LVC1G125YZPR	296-18759-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	426.00/3,000		
SN74LVC1G126DRLR	296-18013-1-ND	Tri-State Single Bus Buffer Gate	SOP-5	.48	.36	.27
SN74LVC1G126DRLR	296-18013-2-ND	Tri-State Single Bus Buffer Gate	SOP-5	624.00/4,000		
SN74LVC1G126DRYR	296-21817-1-ND	Tri-State Single Bus Buffer Gate	6-SON	.45	.36	.27
SN74LVC1G126DRYR	296-21817-2-ND	Tri-State Single Bus Buffer Gate	6-SON	585.00/5,000		
SN74LVC1G126YEAR	296-15564-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.76	.57	.43
SN74LVC1G126YEAR	296-15564-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	741.00/3,000		
SN74LVC1G126YEPR	296-15565-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.76	.57	.43
SN74LVC1G126YEPR	296-15565-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	741.00/3,000		
SN74LVC1G126YZAR	296-14027-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.76	.57	.43
SN74LVC1G126YZAR	296-14027-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	741.00/3,000		
SN74LVC1G126YZPR	296-14361-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.53	.42	.32
SN74LVC1G126YZPR	296-14361-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	426.00/3,000		
SN74LVC1G132DBVR	296-17888-1-ND	Single 2-Input NAND Gate	SOT-23-5	.39	.32	.22
SN74LVC1G132DBVR	296-17888-2-ND	Single 2-Input NAND Gate	SOT-23-5	306.00/3,000		
SN74LVC1G132DCKR	296-18760-1-ND	Single 2-Input NAND Gate	SC70-5	.39	.32	.22
SN74LVC1G132DCKR	296-18760-2-ND	Single 2-Input NAND Gate	SC70-5	306.00/3,000		
SN74LVC1G132YEPR	296-17473-1-ND	Single 2-Input NAND Gate	5-DSBGA	.76	.57	.43
SN74LVC1G132YEPR	296-17473-2-ND	Single 2-Input NAND Gate	5-DSBGA	741.00/3,000		
SN74LVC1G132YZPR	296-17622-1-ND	Single 2-Input NAND Gate	5-DSBGA	.53	.42	.32
SN74LVC1G132YZPR	296-17622-2-ND	Single 2-Input NAND Gate	5-DSBGA	426.00/3,000		
SN74LVC1G139DCTR	296-18235-1-ND	2-to-4 Line Decoder	SM8	.68	.51	.39
SN74LVC1G139DCTR	296-18235-2-ND	2-to-4 Line Decoder	SM8	663.00/3,000		
SN74LVC1G139DCUR	296-18203-1-ND	2-to-4 Line Decoder	US8	.48	.36	.27
SN74LVC1G139DCUR	296-18203-2-ND	2-to-4 Line Decoder	US8	468.00/3,000		
SN74LVC1G139YZPR	296-21059-1-ND	2-to-4 Line Decoder	8-DSBGA	.68	.51	.39
SN74LVC1G139YZPR	296-21059-2-ND	2-to-4 Line Decoder	8-DSBGA	663.00/3,000		
SN74LVC1G175DBVR	296-17617-1-ND	Single D-Type F/F with Async. Clear	SOT-23-6	.39	.32	.22
SN74LVC1G175DBVR	296-17617-2-ND	Single D-Type F/F with Async. Clear	SOT-23-6	306.00/3,000		
SN74LVC1G175DCKR	296-16998-1-ND	Single D-Type F/F with Async. Clear	SC70-6	.39	.32	.22
SN74LVC1G175DCKR	296-16998-2-ND	Single D-Type F/F with Async. Clear	SC70-6	306.00/3,000		
SN74LVC1G175YZPR	296-17373-1-ND	Single D-Type F/F with Async. Clear	6-DSBGA	.53	.42	.32
SN74LVC1G175YZPR	296-17373-2-ND	Single D-Type F/F with Async. Clear	6-DSBGA	426.00/3,000		
SN74LVC1G240YEAR	296-14364-1-ND	Tri-State Single Buffer/Driver	5-DSBGA	.76	.57	.43
SN74LVC1G240YEAR	296-14364-2-ND	Tri-State Single Buffer/Driver	5-DSBGA	741.00/3,000		
SN74LVC1G240YEPR	296-15850-1-ND	Tri-State Single Buffer/Driver	5-DSBGA	.76	.57	.43
SN74LVC1G240YEPR	296-15850-2-ND	Tri-State Single Buffer/Driver	5-DSBGA	741.00/3,000		
SN74LVC1G240YZPR	296-15874-1-ND	Tri-State Single Buffer/Driver	5-DSBGA	.53	.42	.32
SN74LVC1G240YZPR	296-15874-2-ND	Tri-State Single Buffer/Driver	5-DSBGA	426.00/3,000		
SN74LVC1G332DBVR	296-18587-1-ND	3-Input Positive OR Gate	SOT-23-6	.39	.32	.22
SN74LVC1G332DBVR	296-18587-2-ND	3-Input Positive OR Gate	SOT-23-6	306.00/3,000		
SN74LVC1G332DCKR	296-15943-1-ND	3-Input Positive OR Gate	SC70-6	.39	.32	.22
SN74LVC1G332DCKR	296-15943-2-ND	3-Input Positive OR Gate	SC70-6	306.00/3,000		
SN74LVC1G332DRLR	296-18652-1-ND	3-Input Positive OR Gate	SOT-553	.46	.37	.26
SN74LVC1G332DRLR	296-18652-2-ND	3-Input Positive OR Gate	SOT-553	476.00/4,000		
SN74LVC1G332YEPR	296-15875-1-ND	3-Input Positive OR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G332YEPR	296-15875-2-ND	3-Input Positive OR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G332YZPR	296-15853-1-ND	3-Input Positive OR Gate	5-DSBGA	.58	.46	.35
SN74LVC1G332YZPR	296-15853-2-ND	3-Input Positive OR Gate	5-DSBGA	465.00/3,000		
SN74LVC1G373DBVR	296-18588-1-ND	Tri-State Single D-Type Latch	SOT-23-6	.38	.31	.21
SN74LVC1G373DBVR	296-18588-2-ND	Tri-State Single D-Type Latch	SOT-23-6	297.00/3,000		
SN74LVC1G373DCKR	296-18775-1-ND	Tri-State Single D-Type Latch	SC70-6	.38	.31	.21
SN74LVC1G373DCKR	296-18775-2-ND	Tri-State Single D-Type Latch	SC70-6	297.00/3,000		
SN74LVC1G373YZPR	296-17100-1-ND	Tri-State Single D-Type Latch	6-DSBGA	.50	.38	.29
SN74LVC1G373YZPR	296-17100-2-ND	Tri-State Single D-Type Latch	6-DSBGA	489.00/3,000		
SN74LVC1G374DBVR	296-18776-1-ND	Tri-State Single D-Type Flip-Flop	SOT-23-6	.38	.31	.21
SN74LVC1G374DBVR	296-18776-2-ND	Tri-State Single D-Type Flip-Flop	SOT-23-6	297.00/3,000		
SN74LVC1G374DCKR	296-18777-1-ND	Tri-State Single D-Type Flip-Flop	SC70-6	.38	.31	.21
SN74LVC1G374DCKR	296-18777-2-ND	Tri-State Single D-Type Flip-Flop	SC70-6	297.00/3,000		
SN74LVC1G374YZPR	296-18778-1-ND	Tri-State Single D-Type Flip-Flop	6-DSBGA	.50	.38	.29
SN74LVC1G374YZPR	296-18778-2-ND	Tri-State Single D-Type Flip-Flop	6-DSBGA	489.00/3,000		
SN74LVC1G386DBVR	296-18779-1-ND	Single 3-Input Positive XOR Gate	SOT-23-6	.39	.32	.22
SN74LVC1G386DBVR	296-18779-2-ND	Single 3-Input Positive XOR Gate	SOT-23-6	306.00/3,000		
SN74LVC1G386DCKR	296-18780-1-ND	Single 3-Input Positive XOR Gate	SC70-6	.39	.32	.22
SN74LVC1G386DCKR	296-18780-2-ND	Single 3-Input Positive XOR Gate	SC70-6	306.00/3,000		
SN74LVC1G386YEPR	296-18781-1-ND	Single 3-Input Positive XOR Gate	6-DSBGA	.76	.57	.43
SN74LVC1G386YEPR	296-18781-2-ND	Single 3-Input Positive XOR Gate	6-DSBGA	741.00/3,000		
SN74LVC1G386YZPR	296-18782-1-ND	Single 3-Input Positive XOR Gate	6-DSBGA	.50	.38	.29
SN74LVC1G386YZPR	296-18782-2-ND	Single 3-Input Positive XOR Gate	6-DSBGA	489.00/3,000		
SN74LVC1G3157DBVR	296-14908-1-ND	SPDT Analog Switch	SOT-23-6	.50	.40	.30
SN74LVC1G3157DBVR	296-14908-2-ND	SPDT Analog Switch	SOT-23-6	405.00/3,000		
SN74LVC1G3157DCKR	296-14909-1-ND	SPDT Analog Switch	SC70-6	.50	.40	.30
SN74LVC1G3157DCKR	296-14909-2-ND	SPDT Analog Switch	SC70-6	405.00/3,000		
SN74LVC1G3157DRLR	296-18015-1-ND	SPDT Analog Switch	SOT-553-6	.48	.36	.27
SN74LVC1G3157DRLR	296-18015-2-ND	SPDT Analog Switch	SOT-553-6	624.00/4,000		
SN74LVC1G3157DRYR	296-21548-1-ND	SPDT Analog Switch	6-SON	.45	.36	.27
SN74LVC1G3157DRYR	296-21548-2-ND	SPDT Analog Switch	6-SON	585.00/5,000		
SN74LVC1G3157YEPR	296-17186-1-ND	SPDT Analog Switch	6-DSBGA	.76	.57	.43
SN74LVC1G3157YEPR	296-17186-2-ND	SPDT Analog Switch	6-DSBGA	741.00/3,000		
SN74LVC1G3157YZPR	296-18770-1-ND	SPDT Analog Switch	6-DSBGA	.48	.36	.27
SN74LVC1G3157YZPR	296-18770-2-ND	SPDT Analog Switch	6-DSBGA	468.00/3,000		
SN74LVC1G3208DBVR	296-18771-1-ND	Single 3-Input Positive OR AND Gate	SOT-23-6	.40	.32	.24
SN74LVC1G3208DBVR	296-18771-2-ND	Single 3-Input Positive OR AND Gate	SOT-23-6	324.00/3,000		
SN74LVC1G3208DCKR	296-17845-1-ND	Single 3-Input Positive OR AND Gate	SC70-6	.40	.32	.24
SN74LVC1G3208DCKR	296-17845-2-ND	Single 3-Input Positive OR AND Gate	SC70-6	324.00/3,000		
SN74LVC1G3208YZPR	296-21061-1-ND	Single 3-Input Positive OR AND Gate	6-DSBGA	.52	.39	.30
SN74LVC1G3208YZPR	296-21061-2-ND	Single 3-Input Positive OR AND Gate	6-DSBGA	507.00/3,000		
SN74LVC1GU04DBVR	296-8487-1-ND	Single Inverter Gate	SOT-23-5	.36	.29	.20
SN74LVC1GU04DBVR	296-8487-2-ND	Single Inverter Gate	SOT-23-5	282.00/3,000		
SN74LVC1GU04DCKR	296-8488-1-ND	Single Inverter Gate	SC70-5	.40	.32	.24
SN74LVC1GU04DCKR	296-8488-2-ND	Single Inverter Gate	SC70-5	324.00/3,000		
SN74LVC1GU04DRLR	296-18657-1-ND	Single Inverter Gate	SOT-553	.40	.32	.24
SN74LVC1GU04DRLR	296-18657-2-ND	Single Inverter Gate	SOT-553	432.00/4,000		
SN74LVC1GU04YEAR	296-13730-1-ND	Single Inverter Gate	5-DSBGA	.76	.57	.43
SN74LVC1GU04YEAR	296-13730-2-ND	Single Inverter Gate	5-DSBGA	741.00/3,000		
SN74LVC1GU04YZAR	296-14033-1-ND	Single Inverter Gate	5-DSBGA	.76	.57	.43
SN74LVC1GU04YZAR	296-14033-2-ND	Single Inverter Gate	5-DSBGA	741.00/3,000		
SN74LVC1GU04YZPR	296-14370-1-ND	Single Inverter Gate	5-WCSP	.53	.42	.32
SN74LVC1GU04YZPR	296-14370-2-ND	Single Inverter Gate	5-WCSP	426.00/3,000		
SN74LVC1GU04YZVR	296-21063-1-ND	Single Inverter Gate	4-DSBGA	.53	.42	.32
SN74LVC1GU04YZVR	296-21063-2-ND	Single Inverter Gate	4-DSBGA	426.00/3,000		
SN74LVC1GX04DBVR	296-17821-1-ND	Crystal Oscillator Driver	SOT-23-6	.88	.66	.50
SN74LVC1GX04DBVR	296-17821-2-ND	Crystal Oscillator Driver	SOT-23-6	858.00/3,000		
SN74LVC1GX04DCKR	296-18796-1-ND	Crystal Oscillator Driver	SC70-6	.88	.66	.50
SN74LVC1GX04DCKR	296-18796-2-ND	Crystal Oscillator Driver	SC70-6	858.00/3,000		
SN74LVC1GX04DRLR	296-18614-1-ND	Crystal Oscillator Driver	6-SOP	.88	.66	.50
SN74LVC1GX04DRLR	296-18614-2-ND	Crystal Oscillator Driver	6-SOP	1144.00/4,000		
SN74LVC1T45DBVR	296-16843-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SOT-23-6	.52	.39	.30
SN74LVC1T45DBVR	296-16843-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SOT-23-6	507.00/3,000		
SN74LVC1T45DCKR	296-16844-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SC70-6	.52	.39	.30
SN74LVC1T45DCKR	296-16844-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SC70-6	507.00/3,000		
SN74LVC1T45DRLR	296-20629-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SOT-6	.60	.45	.34

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC1T45DRLR	296-20629-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SOT-6	780.00/4,000		
SN74LVC1T45YEPR	296-17207-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	6-DSBGA	.84	.63	.48
SN74LVC1T45YEPR	296-17207-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	6-DSBGA	819.00/3,000		
SN74LVC1T45YZPR	296-17018-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	6-DSBGA	.56	.42	.32
SN74LVC1T45YZPR	296-17018-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	6-DSBGA	546.00/3,000		
SN74LVC2G00DCTR	296-13257-1-ND	Dual 2-Input Positive NAND Gate	SM8	.54	.41	.31
SN74LVC2G00DCTR	296-13257-2-ND	Dual 2-Input Positive NAND Gate	SM8	528.00/3,000		
SN74LVC2G00DCUR	296-13258-1-ND	Dual 2-Input Positive NAND Gate	US8	.48	.36	.27
SN74LVC2G00DCUR	296-13258-2-ND	Dual 2-Input Positive NAND Gate	US8	468.00/3,000		
SN74LVC2G00WDCTREP	296-19507-1-ND	Dual 2-Input Positive NAND Gate	SM8	1.02	.85	.68
SN74LVC2G00WDCTREP	296-19507-2-ND	Dual 2-Input Positive NAND Gate	SM8	1326.00/3,000		
SN74LVC2G00YEAR	296-15585-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	.92	.69	.52
SN74LVC2G00YEAR	296-15585-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	897.00/3,000		
SN74LVC2G00YZAR	296-14034-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	.92	.69	.52
SN74LVC2G00YZAR	296-14034-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	897.00/3,000		
SN74LVC2G00YZPR	296-18797-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	.58	.44	.33
SN74LVC2G00YZPR	296-18797-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	567.00/3,000		
SN74LVC2G02DCTR	296-13259-1-ND	Dual 2-Input Positive NOR Gate	SM8	.52	.39	.30
SN74LVC2G02DCTR	296-13259-2-ND	Dual 2-Input Positive NOR Gate	SM8	507.00/3,000		
SN74LVC2G02DCUR	296-13260-1-ND	Dual 2-Input Positive NOR Gate	US8	.48	.36	.27
SN74LVC2G02DCUR	296-13260-2-ND	Dual 2-Input Positive NOR Gate	US8	468.00/3,000		
SN74LVC2G02YEAR	296-13731-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G02YEAR	296-13731-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G02YEPR	296-18798-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G02YEPR	296-18798-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G02YZAR	296-14035-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G02YZAR	296-14035-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G02YZPR	296-18799-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.58	.44	.33
SN74LVC2G02YZPR	296-18799-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	567.00/3,000		
SN74LVC2G04DBVR	296-13261-1-ND	Dual Inverter Gate	SOT-23-6	.43	.35	.24
SN74LVC2G04DBVR	296-13261-2-ND	Dual Inverter Gate	SOT-23-6	336.00/3,000		
SN74LVC2G04DCKR	296-13262-1-ND	Dual Inverter Gate	SC-70-6	.43	.35	.24
SN74LVC2G04DCKR	296-13262-2-ND	Dual Inverter Gate	SC-70-6	336.00/3,000		
SN74LVC2G04DRLR	296-21064-1-ND	Dual Inverter Gate	SOT-563-6	.40	.32	.24
SN74LVC2G04DRLR	296-21064-2-ND	Dual Inverter Gate	SOT-563-6	432.00/4,000		
SN74LVC2G04MDCKREP	296-21819-1-ND	Dual Inverter Gate	SC70-6	.93	.78	.62
SN74LVC2G04MDCKREP	296-21819-2-ND	Dual Inverter Gate	SC70-6	1209.00/3,000		
SN74LVC2G04YEAR	296-13732-1-ND	Dual Inverter Gate	6-DSBGA	.92	.69	.52
SN74LVC2G04YEAR	296-13732-2-ND	Dual Inverter Gate	6-DSBGA	897.00/3,000		
SN74LVC2G04YEPR	296-18800-1-ND	Dual Inverter Gate	6-DSBGA	.92	.69	.52
SN74LVC2G04YEPR	296-18800-2-ND	Dual Inverter Gate	6-DSBGA	897.00/3,000		
SN74LVC2G04YZAR	296-13733-1-ND	Dual Inverter Gate	6-DSBGA	.92	.69	.52
SN74LVC2G04YZAR	296-13733-2-ND	Dual Inverter Gate	6-DSBGA	897.00/3,000		
SN74LVC2G04YZPR	296-23276-1-ND	Dual Inverter Gate ***NEW!***	6-DSBGA	.58	.44	.33
SN74LVC2G04YZPR	296-23276-2-ND	Dual Inverter Gate ***NEW!***	6-DSBGA	567.00/3,000		
SN74LVC2G06DBVR	296-13492-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SOT-23-6	.40	.32	.24
SN74LVC2G06DBVR	296-13492-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SOT-23-6	324.00/3,000		
SN74LVC2G06DCKR	296-13493-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC-70-6	.40	.32	.24
SN74LVC2G06DCKR	296-13493-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC-70-6	324.00/3,000		
SN74LVC2G06MDCKREP	296-19879-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC70-6	.93	.78	.62
SN74LVC2G06MDCKREP	296-19879-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC70-6	1209.00/3,000		
SN74LVC2G06QDCKRQ1	296-18615-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC70-6	.47	.38	.29
SN74LVC2G06QDCKRQ1	296-18615-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC70-6	381.00/3,000		
SN74LVC2G06YEAR	296-13734-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	.92	.69	.52
SN74LVC2G06YEAR	296-13734-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	897.00/3,000		
SN74LVC2G06YEPR	296-18801-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	.92	.69	.52
SN74LVC2G06YEPR	296-18801-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	897.00/3,000		
SN74LVC2G06YZAR	296-13735-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	.92	.69	.52
SN74LVC2G06YZAR	296-13735-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	897.00/3,000		
SN74LVC2G06YZPR	296-17987-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	.58	.44	.33
SN74LVC2G06YZPR	296-17987-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	567.00/3,000		
SN74LVC2G07DBVR	296-13494-1-ND	Dual Buffer/Driver with OD Output	SOT-23-6	.43	.35	.24
SN74LVC2G07DBVR	296-13494-2-ND	Dual Buffer/Driver with OD Output	SOT-23-6	336.00/3,000		
SN74LVC2G07DCKR	296-13495-1-ND	Dual Buffer/Driver with OD Output	SC70-6	.47	.38	.26
SN74LVC2G07DCKR	296-13495-2-ND	Dual Buffer/Driver with OD Output	SC70-6	366.00/3,000		
SN74LVC2G07YEAR	296-13736-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	.92	.69	.52
SN74LVC2G07YEAR	296-13736-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	897.00/3,000		
SN74LVC2G07YZAR	296-13737-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	.92	.69	.52
SN74LVC2G07YZAR	296-13737-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	897.00/3,000		
SN74LVC2G07YZPR	296-23277-1-ND	Dual Buffer/Driver w/OD Output ***NEW!***	6-DSBGA	.58	.44	.33
SN74LVC2G07YZPR	296-23277-2-ND	Dual Buffer/Driver w/OD Output ***NEW!***	6-DSBGA	567.00/3,000		
SN74LVC2G08DCTR	296-13263-1-ND	Dual 2-Input Positive AND Gate	SM8	.48	.36	.27
SN74LVC2G08DCTR	296-13263-2-ND	Dual 2-Input Positive AND Gate	SM8	468.00/3,000		
SN74LVC2G08DCUR	296-13264-1-ND	Dual 2-Input Positive AND Gate	US8	.48	.36	.27
SN74LVC2G08DCUR	296-13264-2-ND	Dual 2-Input Positive AND Gate	US8	468.00/3,000		
SN74LVC2G08YEPR	296-16734-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	.92	.69	.52
SN74LVC2G08YEPR	296-16734-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	897.00/3,000		
SN74LVC2G08YZAR	296-14036-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	.92	.69	.52
SN74LVC2G08YZAR	296-14036-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	897.00/3,000		
SN74LVC2G08YZPR	296-14371-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	.58	.44	.33
SN74LVC2G08YZPR	296-14371-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	567.00/3,000		
SN74LVC2G14DBVR	296-13010-1-ND	Dual Schmitt-Trigger Inverter	SOT-23-6	.40	.33	.22
SN74LVC2G14DBVR	296-13010-2-ND	Dual Schmitt-Trigger Inverter	SOT-23-6	312.00/3,000		
SN74LVC2G14DCKR	296-13011-1-ND	Dual Schmitt-Trigger Inverter	SC70-6	.40	.33	.22
SN74LVC2G14DCKR	296-13011-2-ND	Dual Schmitt-Trigger Inverter	SC70-6	312.00/3,000		
SN74LVC2G14YEAR	296-13970-1-ND	Dual Schmitt-Trigger Inverter	6-DSBGA	.92	.69	.52
SN74LVC2G14YEAR	296-13970-2-ND	Dual Schmitt-Trigger Inverter	6-DSBGA	897.00/3,000		
SN74LVC2G14YZPR	296-18803-1-ND	Dual Schmitt-Trigger Inverter	6-DSBGA	.58	.44	.33
SN74LVC2G14YZPR	296-18803-2-ND	Dual Schmitt-Trigger Inverter	6-DSBGA	567.00/3,000		
SN74LVC2G17DBVR	296-13012-1-ND	Dual Schmitt-Trigger Buffer	SOT-23-6	.40	.32	.24
SN74LVC2G17DBVR	296-13012-2-ND	Dual Schmitt-Trigger Buffer	SOT-23-6	324.00/3,000		
SN74LVC2G17DCKR	296-13013-1-ND	Dual Schmitt-Trigger Buffer	SC70-6	.43	.35	.24
SN74LVC2G17DCKR	296-13013-2-ND	Dual Schmitt-Trigger Buffer	SC70-6	336.00/3,000		
SN74LVC2G17MDCKREP	296-22358-1-ND	Dual Schmitt-Trigger Buffer ***NEW!***	SC70-6	1.02	.85	.68
SN74LVC2G17MDCKREP	296-22358-2-ND	Dual Schmitt-Trigger Buffer ***NEW!***	SC70-6	1326.00/3,000		
SN74LVC2G17QDCKRQ1	296-18297-1-ND	Dual Schmitt-Trigger Buffer	SC70	.47	.38	.29
SN74LVC2G17QDCKRQ1	296-18297-2-ND	Dual Schmitt-Trigger Buffer	SC70	381.00/3,000		
SN74LVC2G17YEAR	296-14039-1-ND	Dual Schmitt-Trigger Buffer	6-DSBGA	.92	.69	.52
SN74LVC2G17YEAR	296-14039-2-ND	Dual Schmitt-Trigger Buffer	6-DSBGA	897.00/3,000		
SN74LVC2G17YEPR	296-18805-1-ND	Dual Schmitt-Trigger Buffer	6-DSBGA	.92	.69	.52
SN74LVC2G17YEPR	296-18805-2-ND	Dual Schmitt-Trigger Buffer	6-DSBGA	897.00/3,000		
SN74LVC2G32DCTR	296-13267-1-ND	Dual 2-Input Positive OR Gate	SM8	.48	.36	.27
SN74LVC2G32DCTR	296-13267-2-ND	Dual 2-Input Positive OR Gate	SM8	468.00/3,000		
SN74LVC2G32DCUR	296-13268-1-ND	Dual 2-Input Positive OR Gate	US8	.44	.36	.27
SN74LVC2G32DCUR	296-13268-2-ND	Dual 2-Input Positive OR Gate	US8	357.00/3,000		
SN74LVC2G32MDCUREP	296-22359-1-ND	Dual 2-Input Positive OR Gate ***NEW!***	8-SSOP	1.38	1.15	.92
SN74LVC2G32MDCUREP	296-22359-2-ND	Dual 2-Input Positive OR Gate ***NEW!***	8-SSOP	1794.00/3,000		
SN74LVC2G32YEAR	296-15593-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G32YEAR	296-15593-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G32YEPR	296-15349-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G32YEPR	296-15349-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G32YZAR	296-14040-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G32YZAR	296-14040-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G32YZPR	296-15350-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	.58	.44	.33
SN74LVC2G32YZPR	296-15350-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	567.00/3,000		
SN74LVC2G34DBVR	296-13496-1-ND	Dual Buffer Gate	SOT-23-6	.48	.36	.27
SN74LVC2G34DBVR	296-13496-2-ND	Dual Buffer Gate	SOT-23-6	468.00/3,000		
SN74LVC2G34DCKR	296-13497-1-ND	Dual Buffer Gate	SC70-6	.43	.35	.24
SN74LVC2G34DCKR	296-13497-2-ND	Dual Buffer Gate	SC70-6	336.00/3,000		
SN74LVC2G34DRLR	296-18020-1-ND	Dual Buffer Gate	SOT-6	.48	.36	.27
SN74LVC2G34DRLR	296-18020-2-ND	Dual Buffer Gate	SOT-6	624.00/4,000		
SN74LVC2G34MDCKREP	296-22360-1-ND	Dual Buffer Gate ***NEW!***	SC70-6	1.38	1.15	.92
SN74LVC2G34MDCKREP	296-22360-2-ND	Dual Buffer Gate ***NEW!***	SC70-6	1794.00/3,000		
SN74LVC2G34YEAR	296-13740-1-ND	Dual Buffer Gate	6-DSBGA	.92	.69	.52
SN74LVC2G34YEAR	296-13740-2-ND	Dual Buffer Gate	6-DSBGA	897.00/3,000		
SN74LVC2G34YEPR	296-17087-1-ND	Dual Buffer Gate	6-DSBGA	.92	.69	.52
SN74LVC2G34YEPR	296-17087-2-ND	Dual Buffer Gate	6-DSBGA	897.00/3,000		
SN74LVC2G34YZAR	296-13741-1-ND	Dual Buffer Gate	6-DSBGA	.92	.69	.52
SN74LVC2G34YZAR	296-13741-2-ND	Dual Buffer Gate	6-DSBGA	897.00/3,000		
SN74LVC2G38DCTR	296-17010-1-ND	Dual 2-Input NAND Gate	SM8	.48	.36	.27
SN74LVC2G38DCTR	296-17010-2-ND	Dual 2-Input NAND Gate	SM8	468.00/3,000		
SN74LVC2G38DCUR	296-18808-1-ND	Dual 2-Input NAND Gate	US8	.48	.36	.27
SN74LVC2G38DCUR	296-18808-2-ND	Dual 2-Input NAND Gate	US8	468.00/3,000		
SN74LVC2G38YZPR	296-18809-1-ND	Dual 2-Input NAND Gate	8-DSBGA	.58	.44	.33
SN74LVC2G38YZPR	296-18809-2-ND	Dual 2-Input NAND Gate	8-DSBGA	567.00/3,000		
SN74LVC2G53DCTR	296-13269-1-ND	Dual Analog Mux/Demux	SM8	.52	.39	.30
SN74LVC2G53DCTR	296-13269-2-ND	Dual Analog Mux/Demux	SM8	507.00/3,000		
SN74LVC2G53DCUR	296-13270-1-ND	Dual Analog Mux/Demux	US8	.48	.36	.27
SN74LVC2G53DCUR	296-13270-2-ND	Dual Analog Mux/Demux	US8	468.00/3,000		
SN74LVC2G53YEAR	296-13702-1-ND	Dual Analog Mux/Demux	8-DSBGA	.92	.69	.52
SN74LVC2G53YEAR	296-13702-2-ND	Dual Analog Mux/Demux	8-DSBGA	897.00/3,000		
SN74LVC2G53YZAR	296-12664-1-ND	Dual Analog Mux/Demux	8-DSBGA	.92	.69	.52
SN74LVC2G53YZAR	296-12664-2-ND	Dual Analog Mux/Demux	8-DSBGA	897.00/3,000		
SN74LVC2G53YZPR	296-14372-1-ND	Dual Analog Mux/Demux	8-DSBGA	.58	.44	.33
SN74LVC2G53YZPR	296-14372-2-ND	Dual Analog Mux/Demux	8-DSBGA	567.00/3,000		
SN74LVC2G66DCTR	296-13271-1-ND	Dual Bilateral Analog Switch	SM8	.48	.36	.27
SN74LVC2G66DCTR	296-13271-2-ND	Dual Bilateral Analog Switch	SM8	468.00/3,000		
SN74LVC2G66DCUR	296-13272-1-ND	Dual Bilateral Analog Switch	US8	.47	.38	.29
SN74LVC2G66DCUR	296-13272-2-ND	Dual Bilateral Analog Switch	US8	381.00/3,000		
SN74LVC2G66YEAR	296-15594-1-ND	Dual Bilateral Analog Switch	8-DSBGA	.92	.69	.52
SN74LVC2G66YEAR	296-15594-2-ND	Dual Bilateral Analog Switch	8-DSBGA	897.00/3,000		
SN74LVC2G66YZAR	296-14041-1-ND	Dual Bilateral Analog Switch	8-DSBGA	.92	.69	.52
SN74LVC2G66YZAR	296-14041-2-ND	Dual Bilateral Analog Switch	8-DSBGA	897.00/3,000		
SN74LVC2G66YZPR	296-14373-1-ND	Dual Bilateral Analog Switch	8-DSBGA	.58	.44	.33
SN74LVC2G66YZPR	296-14373-2-ND	Dual Bilateral Analog Switch	8-DSBGA	567.00/3,000		
SN74LVC2G74DCTR	296-13273-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	SM8	.48	.36	.27
SN74LVC2G74DCTR	296-13273-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	SM8	468.00/3,000		
SN74LVC2G74DCUR	296-12755-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	US8	.50	.40	.30
SN74LVC2G74DCUR	296-12755-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	US8	402.00/3,000		
SN74LVC2G74QDCURQ1	296-21820-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-VSSOP	.56	.42	.32
SN74LVC2G74QDCURQ1	296-21820-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-VSSOP	546.00/3,000		
SN74LVC2G74YEPR	296-14374-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	8-DSBGA	.92	.69	.52
SN74LVC2G74YEPR	296-14374-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	8-DSBGA	897.00/3,000		
SN74LVC2G74YZAR	296-14042-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	8-DSBGA	.92	.69	.52
SN74LVC2G74YZAR	296-14042-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	8-DSBGA	897.00/3,000		
SN74LVC2G74YZPR	296-14375-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	8-DSBGA	.58	.44	.33
SN74LVC2G74YZPR	296-14375-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	8-DSBGA	567.00/3,000		
SN74LVC2G79DCTR	296-17849-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	.48	.36	.27

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC2G79DCTR	296-17849-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	468.00/3,000		
SN74LVC2G79DCUR	296-17254-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	.48	.36	.27
SN74LVC2G79DCUR	296-17254-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	468.00/3,000		
SN74LVC2G79YEPR	296-15982-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.92	.69	.52
SN74LVC2G79YEPR	296-15982-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	897.00/3,000		
SN74LVC2G79YZPR	296-15983-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.58	.44	.33
SN74LVC2G79YZPR	296-15983-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	567.00/3,000		
SN74LVC2G80DCTR	296-18810-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	.48	.36	.27
SN74LVC2G80DCTR	296-18810-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	SM8	468.00/3,000		
SN74LVC2G80DCUR	296-17083-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	.48	.36	.27
SN74LVC2G80DCUR	296-17083-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	US8	468.00/3,000		
SN74LVC2G80YEPR	296-15984-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.92	.69	.52
SN74LVC2G80YEPR	296-15984-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	897.00/3,000		
SN74LVC2G80YZPR	296-15985-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.58	.44	.33
SN74LVC2G80YZPR	296-15985-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	567.00/3,000		
SN74LVC2G86DCTR	296-13274-1-ND	Dual 2-Input Exclusive OR Gate	SM8	.48	.36	.27
SN74LVC2G86DCTR	296-13274-2-ND	Dual 2-Input Exclusive OR Gate	SM8	468.00/3,000		
SN74LVC2G86DCUR	296-13275-1-ND	Dual 2-Input Exclusive OR Gate	US8	.48	.36	.27
SN74LVC2G86DCUR	296-13275-2-ND	Dual 2-Input Exclusive OR Gate	US8	468.00/3,000		
SN74LVC2G86YEAR	296-13972-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G86YEAR	296-13972-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G86YEPR	296-18811-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G86YEPR	296-18811-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G86YZAR	296-15709-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G86YZAR	296-15709-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G125DCTR	296-12164-1-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	.48	.36	.27
SN74LVC2G125DCTR	296-12164-2-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	468.00/3,000		
SN74LVC2G125DCUR	296-13265-1-ND	Tri-State Dual Bus Buffer Gate	US8	.48	.36	.27
SN74LVC2G125DCUR	296-13265-2-ND	Tri-State Dual Bus Buffer Gate	US8	468.00/3,000		
SN74LVC2G125YEAR	296-13738-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.92	.69	.52
SN74LVC2G125YEAR	296-13738-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	897.00/3,000		
SN74LVC2G125YZAR	296-14037-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.92	.69	.52
SN74LVC2G125YZAR	296-14037-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	897.00/3,000		
SN74LVC2G125YZPR	296-15109-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.58	.44	.33
SN74LVC2G125YZPR	296-15109-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	567.00/3,000		
SN74LVC2G126DCTR	296-12554-1-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	.48	.36	.27
SN74LVC2G126DCTR	296-12554-2-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	468.00/3,000		
SN74LVC2G126DCUR	296-12555-1-ND	Tri-State Dual Bus Buffer Gate	US8	.48	.36	.27
SN74LVC2G126DCUR	296-12555-2-ND	Tri-State Dual Bus Buffer Gate	US8	468.00/3,000		
SN74LVC2G126YEAR	296-15586-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.92	.69	.52
SN74LVC2G126YEAR	296-15586-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	897.00/3,000		
SN74LVC2G126YZAR	296-14038-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.92	.69	.52
SN74LVC2G126YZAR	296-14038-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	897.00/3,000		
SN74LVC2G126YZPR	296-15587-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.58	.44	.33
SN74LVC2G126YZPR	296-15587-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	567.00/3,000		
SN74LVC2G132DCTR	296-17056-1-ND	Dual 2-Input NAND Gate	8-SSOP	.48	.36	.27
SN74LVC2G132DCTR	296-17056-2-ND	Dual 2-Input NAND Gate	8-SSOP	468.00/3,000		
SN74LVC2G132DCUR	296-18802-1-ND	Dual 2-Input NAND Gate	US8	.48	.36	.27
SN74LVC2G132DCUR	296-18802-2-ND	Dual 2-Input NAND Gate	US8	468.00/3,000		
SN74LVC2G132YEPR	296-17729-1-ND	Dual 2-Input NAND Gate	8-DSBGA	.92	.69	.52
SN74LVC2G132YEPR	296-17729-2-ND	Dual 2-Input NAND Gate	8-DSBGA	897.00/3,000		
SN74LVC2G132YZPR	296-17504-1-ND	Dual 2-Input NAND Gate	8-DSBGA	.64	.48	.36
SN74LVC2G132YZPR	296-17504-2-ND	Dual 2-Input NAND Gate	8-DSBGA	624.00/3,000		
SN74LVC2G157DCTR	296-13266-1-ND	Single 2-1 Line Data Selector/Mux	8-SSOP	.48	.36	.27
SN74LVC2G157DCTR	296-13266-2-ND	Single 2-1 Line Data Selector/Mux	8-SSOP	468.00/3,000		
SN74LVC2G157DCUR	296-12605-1-ND	Single 2-1 Line Data Selector/Mux	US8	.53	.42	.32
SN74LVC2G157DCUR	296-12605-2-ND	Single 2-1 Line Data Selector/Mux	US8	426.00/3,000		
SN74LVC2G157YEAR	296-13971-1-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	.92	.69	.52
SN74LVC2G157YEAR	296-13971-2-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	897.00/3,000		
SN74LVC2G157YEPR	296-17997-1-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	.92	.69	.52
SN74LVC2G157YEPR	296-17997-2-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	897.00/3,000		
SN74LVC2G157YZAR	296-15708-1-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	.92	.69	.52
SN74LVC2G157YZAR	296-15708-2-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	897.00/3,000		
SN74LVC2G157YZPR	296-18804-1-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	.58	.44	.33
SN74LVC2G157YZPR	296-18804-2-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	567.00/3,000		
SN74LVC2G240DCTR	296-15588-1-ND	Tri-State Dual Buffer/Driver	8-SSOP	.50	.38	.29
SN74LVC2G240DCTR	296-15588-2-ND	Tri-State Dual Buffer/Driver	8-SSOP	489.00/3,000		
SN74LVC2G240DCUR	296-13739-1-ND	Tri-State Dual Buffer/Driver	8-VSSOP	.52	.39	.30
SN74LVC2G240DCUR	296-13739-2-ND	Tri-State Dual Buffer/Driver	8-VSSOP	507.00/3,000		
SN74LVC2G240YEAR	296-15589-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.92	.69	.52
SN74LVC2G240YEAR	296-15589-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	897.00/3,000		
SN74LVC2G240YEPR	296-18806-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.92	.69	.52
SN74LVC2G240YEPR	296-18806-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	897.00/3,000		
SN74LVC2G240YZAR	296-15590-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.92	.69	.52
SN74LVC2G240YZAR	296-15590-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	897.00/3,000		
SN74LVC2G240YZPR	296-18807-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.58	.44	.33
SN74LVC2G240YZPR	296-18807-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	567.00/3,000		
SN74LVC2G241DCTR	296-11935-1-ND	Tri-State Dual Buffer/Driver	8-SSOP	.50	.38	.29
SN74LVC2G241DCTR	296-11935-2-ND	Tri-State Dual Buffer/Driver	8-SSOP	489.00/3,000		
SN74LVC2G241DCUR	296-11936-1-ND	Tri-State Dual Buffer/Driver	US8	.52	.39	.30
SN74LVC2G241DCUR	296-11936-2-ND	Tri-State Dual Buffer/Driver	US8	507.00/3,000		
SN74LVC2G241YEAR	296-15591-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.92	.69	.52
SN74LVC2G241YEAR	296-15591-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	897.00/3,000		
SN74LVC2G241YEPR	296-15854-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.92	.69	.52
SN74LVC2G241YEPR	296-15854-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	897.00/3,000		
SN74LVC2G241YZAR	296-15592-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.92	.69	.52
SN74LVC2G241YZAR	296-15592-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	897.00/3,000		
SN74LVC2G241YZPR	296-15855-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.58	.44	.33
SN74LVC2G241YZPR	296-15855-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	567.00/3,000		
SN74LVC2GU04DBVR	296-13276-1-ND	Dual Inverter Gate	SOT-23-6	.40	.32	.24
SN74LVC2GU04DBVR	296-13276-2-ND	Dual Inverter Gate	SOT-23-6	324.00/3,000		
SN74LVC2GU04DCKR	296-13277-1-ND	Dual Inverter Gate	SC70-6	.43	.35	.24
SN74LVC2GU04DCKR	296-13277-2-ND	Dual Inverter Gate	SC70-6	336.00/3,000		
SN74LVC2GU04YEAR	296-13742-1-ND	Dual Inverter Gate	6-DSBGA	.92	.69	.52
SN74LVC2GU04YEAR	296-13742-2-ND	Dual Inverter Gate	6-DSBGA	897.00/3,000		
SN74LVC2GU04YZAR	296-13743-1-ND	Dual Inverter Gate	6-DSBGA	.92	.69	.52
SN74LVC2GU04YZAR	296-13743-2-ND	Dual Inverter Gate	6-DSBGA	897.00/3,000		
SN74LVC2GU04YZPR	296-14376-1-ND	Dual Inverter Gate	6-DSBGA	.58	.44	.33
SN74LVC2GU04YZPR	296-14376-2-ND	Dual Inverter Gate	6-DSBGA	567.00/3,000		
SN74LVC2T45DCTR	296-16845-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	SM8	.72	.54	.41
SN74LVC2T45DCTR	296-16845-2-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	SM8	702.00/3,000		
SN74LVC2T45DCUR	296-17014-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	US8	.72	.54	.41
SN74LVC2T45DCUR	296-17014-2-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	US8	702.00/3,000		
SN74LVC2T45YEPR	296-17035-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-DSBGA	.84	.70	.56
SN74LVC2T45YZPR	296-17036-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-DSBGA	.76	.57	.43
SN74LVC2T45YZPR	296-17036-2-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-DSBGA	741.00/3,000		
SN74LVC3G04DCTR	296-13278-1-ND	Triple Inverter Gate	SM8	.60	.45	.34
SN74LVC3G04DCTR	296-13278-2-ND	Triple Inverter Gate	SM8	585.00/3,000		
SN74LVC3G04DCUR	296-13279-1-ND	Triple Inverter Gate	US8	.60	.45	.34
SN74LVC3G04DCUR	296-13279-2-ND	Triple Inverter Gate	US8	585.00/3,000		
SN74LVC3G04YEAR	296-14043-1-ND	Triple Inverter Gate	8-DSBGA	.81	.68	.54
SN74LVC3G04YEAR	296-14043-2-ND	Triple Inverter Gate	8-DSBGA	1053.00/3,000		
SN74LVC3G04YZAR	296-15710-1-ND	Triple Inverter Gate	8-DSBGA	.81	.68	.54
SN74LVC3G04YZAR	296-15710-2-ND	Triple Inverter Gate	8-DSBGA	1053.00/3,000		
SN74LVC3G04YZPR	296-15110-1-ND	Triple Inverter Gate	8-DSBGA	.72	.54	.41
SN74LVC3G04YZPR	296-15110-2-ND	Triple Inverter Gate	8-DSBGA	702.00/3,000		
SN74LVC3G06DCTR	296-13280-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	SM-8	.60	.45	.34
SN74LVC3G06DCTR	296-13280-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	SM-8	585.00/3,000		
SN74LVC3G06DCUR	296-13281-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	US8	.60	.45	.34
SN74LVC3G06DCUR	296-13281-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	US8	585.00/3,000		
SN74LVC3G06YEAR	296-15598-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	.81	.68	.54
SN74LVC3G06YEAR	296-15598-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	1053.00/3,000		
SN74LVC3G06YEPR	296-18814-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	.81	.68	.54
SN74LVC3G06YEPR	296-18814-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	1053.00/3,000		
SN74LVC3G06YZPR	296-18815-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	.72	.54	.41
SN74LVC3G06YZPR	296-18815-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	702.00/3,000		
SN74LVC3G07DCTR	296-13282-1-ND	Triple Buffer/Driver with OD Outputs	SM8	.60	.45	.34
SN74LVC3G07DCTR	296-13282-2-ND	Triple Buffer/Driver with OD Outputs	SM8	585.00/3,000		
SN74LVC3G07DCUR	296-13283-1-ND	Triple Buffer/Driver with OD Outputs	US8	.60	.45	.34
SN74LVC3G07DCUR	296-13283-2-ND	Triple Buffer/Driver with OD Outputs	US8	585.00/3,000		
SN74LVC3G07YEAR	296-14044-1-ND	Triple Buffer/Driver with OD Outputs	8-DSBGA	.81	.68	.54
SN74LVC3G07YEAR	296-14044-2-ND	Triple Buffer/Driver with OD Outputs	8-DSBGA	1053.00/3,000		
SN74LVC3G07YZAR	296-15711-1-ND	Triple Buffer/Driver with OD Outputs	8-DSBGA	.81	.68	.54
SN74LVC3G07YZAR	296-15711-2-ND	Triple Buffer/Driver with OD Outputs	8-DSBGA	1053.00/3,000		
SN74LVC3G14DCTR	296-13284-1-ND	Triple Schmitt-Trigger Inverter	8-SSOP	.60	.45	.34
SN74LVC3G14DCTR	296-13284-2-ND	Triple Schmitt-Trigger Inverter	8-SSOP	585.00/3,000		
SN74LVC3G14DCUR	296-13006-1-ND	Triple Schmitt-Trigger Inverter	US8	.60	.45	.34
SN74LVC3G14DCUR	296-13006-2-ND	Triple Schmitt-Trigger Inverter	US8	585.00/3,000		
SN74LVC3G14YEAR	296-14045-1-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	.81	.68	.54
SN74LVC3G14YEAR	296-14045-2-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	1053.00/3,000		
SN74LVC3G14YEPR	296-18816-1-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	.81	.68	.54
SN74LVC3G14YEPR	296-18816-2-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	1053.00/3,000		
SN74LVC3G14YZPR	296-18817-1-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	.72	.54	.41
SN74LVC3G14YZPR	296-18817-2-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	702.00/3,000		
SN74LVC3G17DCTR	296-16915-1-ND	Triple Schmitt-Trigger Buffer	SM8	.60	.45	.34
SN74LVC3G17DCTR	296-16915-2-ND	Triple Schmitt-Trigger Buffer	SM8	585.00/3,000		
SN74LVC3G17DCUR	296-18818-1-ND	Triple Schmitt-Trigger Buffer	US8	.60	.45	.34
SN74LVC3G17DCUR	296-18818-2-ND	Triple Schmitt-Trigger Buffer	US8	585.00/3,000		
SN74LVC3G17YZPR	296-18819-1-ND	Triple Schmitt-Trigger Buffer	8-DSBGA	.72	.54	.41
SN74LVC3G17YZPR	296-18819-2-ND	Triple Schmitt-Trigger Buffer	8-DSBGA	702.00/3,000		
SN74LVC3G34DCTR	296-13285-1-ND	Triple Buffer Gate	SM8	.60	.45	.34
SN74LVC3G34DCTR	296-13285-2-ND	Triple Buffer Gate	SM8	585.00/3,000		
SN74LVC3G34DCUR	296-13286-1-ND	Triple Buffer Gate	US8	.50	.40	.30
SN74LVC3G34DCUR	296-13286-2-ND	Triple Buffer Gate	US8	402.00/3,000		
SN74LVC3G34YEAR	296-14046-1-ND	Triple Buffer Gate	8-DSBGA	.81	.68	.54
SN74LVC3G34YEAR	296-14046-2-ND	Triple Buffer Gate	8-DSBGA	1053.00/3,000		
SN74LVC3G34YZPR	296-15111-1-ND	Triple Buffer Gate	8-DSBGA	.72	.54	.41
SN74LVC3G34YZPR	296-15111-2-ND	Triple Buffer Gate	8-DSBGA	702.00/3,000		
SN74LVC3GU04DCTR	296-18820-1-ND	Triple Inverter Gate	8-SSOP	.80	.60	.45
SN74LVC3GU04DCTR	296-18820-2-ND	Triple Inverter Gate	8-SSOP	780.00/3,000		
SN74LVC3GU04DCUR	296-18821-1-ND	Triple Inverter Gate	8-VSSOP	.80	.60	.45
SN74LVC3GU04DCUR	296-18821-2-ND	Triple Inverter Gate	8-VSSOP	780.00/3,000		
SN74LVC3GU04YEPR	296-16823-1-ND	Triple Inverter Gate	8-DSBGA	.81	.68	.54
SN74LVC3GU04YEPR	296-16823-2-ND	Triple Inverter Gate	8-DSBGA	1053.00/3,000		
SN74LVC3GU04YZPR	296-16824-1-ND	Triple Inverter Gate	8-DSBGA	.72	.54	.41
SN74LVC3GU04YZPR	296-16824-2-ND	Triple Inverter Gate	8-DSBGA	702.00/3,000		
SN74LVC8T245DBR	296-21065-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-SSOP	1.05	.88	.70
SN74LVC8T245DBR	296-21065-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-SSOP	932.00/2,000		
SN74LVC8T245DBQR	296-23279-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver ***NEW!***	24-SSOP	1.05	.88	.70
SN74LVC8T245DBQR	296-23279-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver ***NEW!***	24-SSOP	1137.50/2,500		
SN74LVC8T245DGVR	296-19287-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-TVSOP	1.05	.88	.70

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LVC8T245DGVR	296-19287-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-TVSOP	932.00/2,000		
SN74LVC8T245DWR	296-23280-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver ***NEW!***	24-SOIC	1.05	.88	.70
SN74LVC8T245DWR	296-23280-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver ***NEW!***	24-SOIC	932.00/2,000		
SN74LVC8T245RHLR	296-18595-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-QFN	1.17	.98	.78
SN74LVC8T245RHLR	296-18595-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-QFN	519.00/1,000		
SN74LVC8T245PWR	296-18593-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-TSSOP	4.20	3.15	2.28
SN74LVC8T245PWR	296-18593-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-TSSOP	1890.00/2,000		
SN74LVC16T245DGGR	296-20631-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	1.88	1.50	1.13
SN74LVC16T245DGGR	296-20631-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	1950.00/2,000		
SN74LVC16T245DGVR	296-21052-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	1.88	1.50	1.13
SN74LVC16T245DGVR	296-21052-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	1950.00/2,000		
SN74LVC16T245DLR	296-21993-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-SSOP	1.88	1.50	1.13
SN74LVC16T245DLR	296-21993-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-SSOP	975.00/1,000		
SN74LVC16T245GQLR	296-21053-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-VFBGA	2.70	2.16	1.68
SN74LVC16T245GQLR	296-21053-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-VFBGA	1530.00/1,000		
SN74LVC16T245ZQLR	296-21054-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-VFBGA	2.00	1.60	1.20
SN74LVC16T245ZQLR	296-21054-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-VFBGA	1040.00/1,000		
SN74LVC00AD	296-1694-5-ND	Quad 2-Input NAND Gate	14-SOIC	.49	.40	.27
SN74LVC00ADR	296-1694-1-ND	Quad 2-Input NAND Gate	14-SOIC	.43	.35	.24
SN74LVC00ADR	296-1694-2-ND	Quad 2-Input NAND Gate	14-SOIC	280.00/2,500		
SN74LVC00ADBR	296-8430-1-ND	Quad 2-Input NAND Gate	14-SSOP	.49	.40	.27
SN74LVC00ADBR	296-8430-2-ND	Quad 2-Input NAND Gate	14-SSOP	270.00/2,000		
SN74LVC00AMPWREP	296-22322-1-ND	Quad 2-Input NAND Gate ***NEW!***	14-TSSOP	.90	.68	.51
SN74LVC00AMPWREP	296-22322-2-ND	Quad 2-Input NAND Gate ***NEW!***	14-TSSOP	598.00/2,000		
SN74LVC00APWR	296-1216-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.47	.38	.26
SN74LVC00APWR	296-1216-2-ND	Quad 2-Input NAND Gate	14-TSSOP	260.00/2,000		
SN74LVC00AQDREP	296-22323-1-ND	Quad 2-Input NAND Gate ***NEW!***	14-SOIC	.88	.66	.50
SN74LVC00AQDREP	296-22323-2-ND	Quad 2-Input NAND Gate ***NEW!***	14-SOIC	715.00/2,500		
SN74LVC00AQPWREP	296-22324-1-ND	Quad 2-Input NAND Gate ***NEW!***	14-TSSOP	.88	.66	.50
SN74LVC00AQPWREP	296-22324-2-ND	Quad 2-Input NAND Gate ***NEW!***	14-TSSOP	586.00/2,000		
SN74LVC00ARGYR	296-13954-1-ND	Quad 2-Input NAND Gate	14-QFN	.52	.39	.30
SN74LVC00ARGYR	296-13954-2-ND	Quad 2-Input NAND Gate	14-QFN	172.00/1,000		
SN74LVC02AD	296-8433-5-ND	Quad 2-Input NOR Gate	14-SOIC	.49	.40	.27
SN74LVC02ADR	296-8433-1-ND	Quad 2-Input NOR Gate	14-SOIC	.49	.40	.27
SN74LVC02ADR	296-8433-2-ND	Quad 2-Input NOR Gate	14-SOIC	320.00/2,500		
SN74LVC02ADBR	296-8432-1-ND	Quad 2-Input NOR Gate	14-SSOP	.51	.41	.29
SN74LVC02ADBR	296-8432-2-ND	Quad 2-Input NOR Gate	14-SSOP	280.00/2,000		
SN74LVC02AMPWREP	296-22325-1-ND	Quad 2-Input NOR Gate ***NEW!***	14-TSSOP	.96	.72	.54
SN74LVC02AMPWREP	296-22325-2-ND	Quad 2-Input NOR Gate ***NEW!***	14-TSSOP	638.00/2,000		
SN74LVC02APWR	296-8434-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.40	.32	.24
SN74LVC02APWR	296-8434-2-ND	Quad 2-Input NOR Gate	14-TSSOP	224.00/2,000		
SN74LVC02ARGYR	296-13955-1-ND	Quad 2-Input NOR Gate	14-QFN	.60	.45	.34
SN74LVC02ARGYR	296-13955-2-ND	Quad 2-Input NOR Gate	14-QFN	200.00/1,000		
SN74LVC04AD	296-1218-5-ND	Hex Inverter	14-SOIC	.43	.35	.24
SN74LVC04ADR	296-1218-1-ND	Hex Inverter	14-SOIC	.43	.35	.24
SN74LVC04ADR	296-1218-2-ND	Hex Inverter	14-SOIC	280.00/2,500		
SN74LVC04ADBR	296-1217-1-ND	Hex Inverter	14-SSOP	.49	.40	.27
SN74LVC04ADBR	296-1217-2-ND	Hex Inverter	14-SSOP	270.00/2,000		
SN74LVC04ADGVR	296-8435-1-ND	Hex Inverter	14-TVSOP	.42	.34	.25
SN74LVC04ADGVR	296-8435-2-ND	Hex Inverter	14-TVSOP	232.00/2,000		
SN74LVC04APWR	296-1219-1-ND	Hex Inverter	14-TSSOP	.47	.38	.26
SN74LVC04APWR	296-1219-2-ND	Hex Inverter	14-TSSOP	260.00/2,000		
SN74LVC04AQDREP	296-18126-1-ND	Hex Inverter	14-SOIC	.88	.66	.50
SN74LVC04AQDREP	296-18126-2-ND	Hex Inverter	14-SOIC	715.00/2,500		
SN74LVC04AQPWREP	296-22326-1-ND	Hex Inverter ***NEW!***	14-TSSOP	.88	.66	.50
SN74LVC04AQPWREP	296-22326-2-ND	Hex Inverter ***NEW!***	14-TSSOP	586.00/2,000		
SN74LVC04ARGYR	296-13956-1-ND	Hex Inverter	14-QFN	.52	.39	.30
SN74LVC04ARGYR	296-13956-2-ND	Hex Inverter	14-QFN	173.00/1,000		
SN74LVC06AD	296-1696-5-ND	Hex Inverter Buffer/Driver with OD	14-SOIC	.49	.40	.27
SN74LVC06ADBR	296-14399-1-ND	Hex Inverter Buffer/Driver with OD	14-SSOP	.40	.32	.24
SN74LVC06ADBR	296-14399-2-ND	Hex Inverter Buffer/Driver with OD	14-SSOP	224.00/2,000		
SN74LVC06ADR	296-14905-1-ND	Hex Inverter Buffer/Driver with OD	14-SOIC	.49	.40	.27
SN74LVC06ADR	296-14905-2-ND	Hex Inverter Buffer/Driver with OD	14-SOIC	320.00/2,500		
SN74LVC06ADGVR	296-8436-1-ND	Hex Inverter Buffer/Driver with OD	14-TVSOP	.42	.34	.25
SN74LVC06ADGVR	296-8436-2-ND	Hex Inverter Buffer/Driver with OD	14-TVSOP	232.00/2,000		
SN74LVC06AMDREP	296-22327-1-ND	Hex Inverter Buffer/Driver w/OD ***NEW!***	14-SOIC	.92	.69	.52
SN74LVC06AMDREP	296-22327-2-ND	Hex Inverter Buffer/Driver w/OD ***NEW!***	14-SOIC	747.50/2,500		
SN74LVC06APWR	296-8437-1-ND	Hex Inverter Buffer/Driver with OD	14-TSSOP	.49	.40	.27
SN74LVC06APWR	296-8437-2-ND	Hex Inverter Buffer/Driver with OD	14-TSSOP	270.00/2,000		
SN74LVC06ARGYR	296-13957-1-ND	Hex Inverter Buffer/Driver with OD	14-QFN	.60	.45	.34
SN74LVC06ARGYR	296-13957-2-ND	Hex Inverter Buffer/Driver with OD	14-QFN	200.00/1,000		
SN74LVC07AD	296-8441-5-ND	Hex Buffer/Driver with OD	14-SOIC	.49	.40	.27
SN74LVC07ADR	296-8441-1-ND	Hex Buffer/Driver with OD	14-SOIC	.49	.40	.27
SN74LVC07ADR	296-8441-2-ND	Hex Buffer/Driver with OD	14-SOIC	320.00/2,500		
SN74LVC07ADBR	296-8439-1-ND	Hex Buffer/Driver with OD	14-SSOP	.51	.41	.29
SN74LVC07ADBR	296-8439-2-ND	Hex Buffer/Driver with OD	14-SSOP	280.00/2,000		
SN74LVC07ADGVR	296-8440-1-ND	Hex Buffer/Driver with OD	14-TVSOP	.42	.34	.25
SN74LVC07ADGVR	296-8440-2-ND	Hex Buffer/Driver with OD	14-TVSOP	232.00/2,000		
SN74LVC07AIPWREP	296-22328-1-ND	Hex Buffer/Driver with OD ***NEW!***	14-TSSOP	.68	.51	.39
SN74LVC07AIPWREP	296-22328-2-ND	Hex Buffer/Driver with OD ***NEW!***	14-TSSOP	452.00/2,000		
SN74LVC07AMPWREP	296-22329-1-ND	Hex Buffer/Driver with OD ***NEW!***	14-TSSOP	1.44	1.20	.96
SN74LVC07AMPWREP	296-22329-2-ND	Hex Buffer/Driver with OD ***NEW!***	14-TSSOP	1276.00/2,000		
SN74LVC07APWR	296-8442-1-ND	Hex Buffer/Driver with OD	14-TSSOP	.49	.40	.27
SN74LVC07APWR	296-8442-2-ND	Hex Buffer/Driver with OD	14-TSSOP	270.00/2,000		
SN74LVC07AQPWRQ1	296-20707-1-ND	Hex Buffer/Driver with OD	14-TSSOP	.44	.36	.27
SN74LVC07AQPWRQ1	296-20707-2-ND	Hex Buffer/Driver with OD	14-TSSOP	246.00/2,000		
SN74LVC07ARGYR	296-13958-1-ND	Hex Buffer/Driver with OD	14-QFN	.60	.45	.34
SN74LVC07ARGYR	296-13958-2-ND	Hex Buffer/Driver with OD	14-QFN	200.00/1,000		
SN74LVC08AD	296-1697-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.43	.35	.24
SN74LVC08ADR	296-1697-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.43	.35	.24
SN74LVC08ADR	296-1697-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	280.00/2,500		
SN74LVC08ADBR	296-1220-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.49	.40	.27
SN74LVC08ADBR	296-1220-2-ND	Quad 2-Input Positive AND Gate	14-SSOP	270.00/2,000		
SN74LVC08AMPWREP	296-22330-1-ND	Quad 2-In. Positive AND Gate ***NEW!***	14-TSSOP	.90	.68	.51
SN74LVC08AMPWREP	296-22330-2-ND	Quad 2-In. Positive AND Gate ***NEW!***	14-TSSOP	598.00/2,000		
SN74LVC08APWR	296-1221-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.47	.38	.26
SN74LVC08APWR	296-1221-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	260.00/2,000		
SN74LVC08AQDREP	296-22331-1-ND	Quad 2-Input Positive AND Gate ***NEW!***	14-SOIC	.88	.66	.50
SN74LVC08AQDREP	296-22331-2-ND	Quad 2-Input Positive AND Gate ***NEW!***	14-SOIC	715.00/2,500		
SN74LVC08AQPWREP	296-22332-1-ND	Quad 2-In. Positive AND Gate ***NEW!***	14-TSSOP	.88	.66	.50
SN74LVC08AQPWREP	296-22332-2-ND	Quad 2-In. Positive AND Gate ***NEW!***	14-TSSOP	586.00/2,000		
SN74LVC08AQPWRQ1	296-21812-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.44	.36	.27
SN74LVC08AQPWRQ1	296-21812-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	246.00/2,000		
SN74LVC08ARGYR	296-13959-1-ND	Quad 2-Input Positive AND Gate	14-QFN	.50	.38	.29
SN74LVC08ARGYR	296-13959-2-ND	Quad 2-Input Positive AND Gate	14-QFN	166.00/1,000		
SN74LVC10AD	296-8443-5-ND	Triple 3-Input NAND Gate	14-SOP	.45	.36	.27
SN74LVC10ADBR	296-8444-1-ND	Triple 3-Input NAND Gate	14-SSOP	.45	.36	.27
SN74LVC10ADBR	296-8444-2-ND	Triple 3-Input NAND Gate	14-SSOP	252.00/2,000		
SN74LVC10APWR	296-8445-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.45	.36	.27
SN74LVC10APWR	296-8445-2-ND	Triple 3-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74LVC10ARGYR	296-13960-1-ND	Triple 3-Input NAND Gate	14-QFN	.66	.50	.38
SN74LVC10ARGYR	296-13960-2-ND	Triple 3-Input NAND Gate	14-QFN	219.00/1,000		
SN74LVC14AD	296-1699-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.43	.35	.24
SN74LVC14ADR	296-1699-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.43	.35	.24
SN74LVC14ADR	296-1699-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	280.00/2,500		
SN74LVC14ADBR	296-8463-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.49	.40	.27
SN74LVC14ADBR	296-8463-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	270.00/2,000		
SN74LVC14ADGVR	296-8464-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.42	.34	.25
SN74LVC14ADGVR	296-8464-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	232.00/2,000		
SN74LVC14APWR	296-1224-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.47	.38	.26
SN74LVC14APWR	296-1224-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	260.00/2,000		
SN74LVC14AQDREP	296-19596-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.88	.66	.50
SN74LVC14AQDREP	296-19596-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	715.00/2,500		
SN74LVC14AQDRG4Q1	296-23270-1-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-SOIC	.44	.36	.27
SN74LVC14AQDRG4Q1	296-23270-2-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-SOIC	297.50/2,500		
SN74LVC14AQPWREP	296-20666-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.88	.66	.50
SN74LVC14AQPWREP	296-20666-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	586.00/2,000		
SN74LVC14ARGYR	296-13965-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.52	.39	.30
SN74LVC14ARGYR	296-13965-2-ND	Hex Schmitt-Trigger Inverter	14-QFN	173.00/1,000		
SN74LVC32AD	296-1235-5-ND	Quad 2-Input OR Gate	14-SOIC	.49	.40	.27
SN74LVC32ADR	296-1235-1-ND	Quad 2-Input OR Gate	14-SOIC	.43	.35	.24
SN74LVC32ADR	296-1235-2-ND	Quad 2-Input OR Gate	14-SOIC	280.00/2,500		
SN74LVC32ADBR	296-1234-1-ND	Quad 2-Input OR Gate	14-SSOP	.49	.40	.27
SN74LVC32ADBR	296-1234-2-ND	Quad 2-Input OR Gate	14-SSOP	270.00/2,000		
SN74LVC32AMDREP	296-22361-1-ND	Quad 2-Input OR Gate ***NEW!***	14-SOIC	.92	.69	.52
SN74LVC32AMDREP	296-22361-2-ND	Quad 2-Input OR Gate ***NEW!***	14-SOIC	747.50/2,500		
SN74LVC32AMPWREP	296-22362-1-ND	Quad 2-Input OR Gate ***NEW!***	14-TSSOP	1.44	1.20	.96
SN74LVC32AMPWREP	296-22362-2-ND	Quad 2-Input OR Gate ***NEW!***	14-TSSOP	1276.00/2,000		
SN74LVC32APWR	296-1236-1-ND	Quad 2-Input OR Gate	14-TSSOP	.47	.38	.26
SN74LVC32APWR	296-1236-2-ND	Quad 2-Input OR Gate	14-TSSOP	260.00/2,000		
SN74LVC32AQDREP	296-22363-1-ND	Quad 2-Input OR Gate ***NEW!***	14-SOIC	.88	.66	.50
SN74LVC32AQDREP	296-22363-2-ND	Quad 2-Input OR Gate ***NEW!***	14-SOIC	715.00/2,500		
SN74LVC32AQPWREP	296-18127-1-ND	Quad 2-Input OR Gate ***NEW!***	14-TSSOP	.88	.66	.50
SN74LVC32AQPWREP	296-18127-2-ND	Quad 2-Input OR Gate ***NEW!***	14-TSSOP	586.00/2,000		
SN74LVC32ARGYR	296-13819-1-ND	Quad 2-Input OR Gate	14-QFN	.50	.38	.29
SN74LVC32ARGYR	296-13819-2-ND	Quad 2-Input OR Gate	14-QFN	166.00/1,000		
SN74LVC74AD	296-1240-5-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC	.49	.40	.27
SN74LVC74ADR	296-1240-1-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC	.49	.40	.27
SN74LVC74ADR	296-1240-2-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC	320.00/2,500		
SN74LVC74ADBR	296-1239-1-ND	Tri-State Dual D-Type Flip-Flop	14-SSOP	.49	.40	.27
SN74LVC74ADBR	296-1239-2-ND	Tri-State Dual D-Type Flip-Flop	14-SSOP	270.00/2,000		
SN74LVC74AMPWREP	296-22378-1-ND	Tri-State Dual D-Type F/F ***NEW!***	14-TSSOP	.92	.69	.52
SN74LVC74AMPWREP	296-22378-2-ND	Tri-State Dual D-Type F/F ***NEW!***	14-TSSOP	612.00/2,000		
SN74LVC74APWR	296-1241-1-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	.49	.40	.27
SN74LVC74APWR	296-1241-2-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	270.00/2,000		
SN74LVC74AQDREP	296-22379-1-ND	Tri-State Dual D-Type F/F ***NEW!***	14-SOIC	.88	.66	.50
SN74LVC74AQDREP	296-22379-2-ND	Tri-State Dual D-Type F/F ***NEW!***	14-SOIC	715.00/2,500		
SN74LVC74AQPWREP	296-22380-1-ND	Tri-State Dual D-Type F/F ***NEW!***	14-TSSOP	.48	.36	.27
SN74LVC74AQPWREP	296-22380-2-ND	Tri-State Dual D-Type F/F ***NEW!***	14-TSSOP	320.00/2,000		
SN74LVC74AQPWRQ1	296-17492-1-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	.44	.36	.27
SN74LVC74AQPWRQ1	296-17492-2-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	246.00/2,000		
SN74LVC74ARGYR	296-13977-1-ND	Tri-State Dual D-Type Flip-Flop	14-QFN	.60	.45	.34
SN74LVC74ARGYR	296-13977-2-ND	Tri-State Dual D-Type Flip-Flop	14-QFN	200.00/1,000		
SN74LVC86AD	296-8561-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.49	.40	.27
SN74LVC86ADBR	296-8562-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.49	.40	.27
SN74LVC86ADBR	296-8562-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	270.00/2,000		
SN74LVC86ADR	296-14915-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.49	.40	.27
SN74LVC86ADR	296-14915-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	320.00/2,500		
SN74LVC86AMDREP	296-22381-1-ND	Quad 2-In. Exclusive OR Gate ***NEW!***	14-SOIC	.92	.69	.52
SN74LVC86AMDREP	296-22381-2-ND	Quad 2-In. Exclusive OR Gate ***NEW!***	14-SOIC	747.50/2,500		
SN74LVC86APWR	296-1242-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.43	.35	.24
SN74LVC86APWR	296-1242-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	238.00/2,000		
SN74LVC86AQDREP	296-22382-1-ND	Quad 2-In. Exclusive OR Gate ***NEW!***	14-SOIC	.88	.66	.50
SN74LVC86AQDREP	296-22382-2-ND	Quad 2-In. Exclusive OR Gate ***NEW!***	14-SOIC	715.00/2,500		
SN74LVC86AQPWREP	296-22383-1-ND	Quad 2-In. Exclusive OR Gate ***NEW!***	14-TSSOP	.88	.66	.50
SN74LVC86AQPWREP	296-22383-2-ND	Quad 2-In. Exclusive OR Gate ***NEW!***	14-TSSOP	586.00/2,000		
SN74LVC86ARGYR	296-13978-1-ND	Quad 2-Input Exclusive OR Gate	14-QFN	.56	.42	.32
SN74LVC86ARGYR	296-13978-2-ND	Quad 2-Input Exclusive OR Gate	14-QFN	186.00/1,000		
SN74LVC112AD	296-8449-5-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SOIC	.72	.54	.41
SN74LVC112ADR	296-8449-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SOIC	.72	.54	.41
SN74LVC112ADR	296-8449-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SOIC	585.00/2,500		
SN74LVC112ADBR	296-8447-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SSOP	.72	.54	.41
SN74LVC112ADBR	296-8447-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SSOP	478.00/2,000		
SN74LVC112ADGVR	296-8448-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TVSOP	.72	.54	.41

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC112ADGVR	296-8448-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TVSOP	478.00/2,000		
SN74LVC112APWR	296-8450-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TSSOP	.72	.54	.41
SN74LVC112APWR	296-8450-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TSSOP	478.00/2,000		
SN74LVC125AD	296-8453-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.50	.41	.28
SN74LVC125ADR	296-8453-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.50	.41	.28
SN74LVC125ADR	296-8453-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	327.50/2,500		
SN74LVC125ADBR	296-8452-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.45	.36	.27
SN74LVC125ADBR	296-8452-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	252.00/2,000		
SN74LVC125AIPWREP	296-22333-1-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-TSSOP	.80	.60	.45
SN74LVC125AIPWREP	296-22333-2-ND	Tri-State Quad Bus Buffer Gate ***NEW!***	14-TSSOP	532.00/2,000		
SN74LVC125AMDREP	296-21813-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	1.25	1.00	.75
SN74LVC125AMDREP	296-21813-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	1600.00/2,500		
SN74LVC125ANSR	296-13234-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.45	.36	.27
SN74LVC125ANSR	296-13234-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP	252.00/2,000		
SN74LVC125APWR	296-1222-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.50	.41	.28
SN74LVC125APWR	296-1222-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	278.00/2,000		
SN74LVC125AQPWRQ1	296-23268-1-ND	Tri-St. Quad Bus Buffer Gate ***NEW!***	14-TSSOP	.53	.43	.32
SN74LVC125AQPWRQ1	296-23268-2-ND	Tri-St. Quad Bus Buffer Gate ***NEW!***	14-TSSOP	296.00/2,000		
SN74LVC125ARGYR	296-13961-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.66	.50	.38
SN74LVC125ARGYR	296-13961-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	219.00/1,000		
SN74LVC126AD	296-8457-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.45	.36	.27
SN74LVC126ADR	296-8457-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.45	.36	.27
SN74LVC126ADR	296-8457-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	305.00/2,500		
SN74LVC126ADBR	296-8455-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.45	.36	.27
SN74LVC126ADBR	296-8455-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	252.00/2,000		
SN74LVC126ADGVR	296-8456-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.48	.36	.27
SN74LVC126ADGVR	296-8456-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	320.00/2,000		
SN74LVC126ANSR	296-13701-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.45	.36	.27
SN74LVC126ANSR	296-13701-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP	252.00/2,000		
SN74LVC126APWR	296-8458-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.50	.41	.28
SN74LVC126APWR	296-8458-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	278.00/2,000		
SN74LVC126ARGYR	296-13962-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.66	.50	.38
SN74LVC126ARGYR	296-13962-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	219.00/1,000		
SN74LVC138AD	296-8459-5-ND	3-to-8 Line Decoder/Demux	16-SOIC	.45	.36	.27
SN74LVC138ADBR	296-8460-1-ND	3-to-8 Line Decoder/Demux	16-SSOP	.45	.36	.27
SN74LVC138ADBR	296-8460-2-ND	3-to-8 Line Decoder/Demux	16-SSOP	252.00/2,000		
SN74LVC138ADGVR	296-13235-1-ND	3-to-8 Line Decoder/Demux	16-TVSOP	.50	.40	.30
SN74LVC138ADGVR	296-13235-2-ND	3-to-8 Line Decoder/Demux	16-TVSOP	278.00/2,000		
SN74LVC138ADR	296-14906-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	.45	.36	.27
SN74LVC138ADR	296-14906-2-ND	3-to-8 Line Decoder/Demux	16-SOIC	305.00/2,500		
SN74LVC138AGQNR	296-12096-1-ND	3-to-8 Line Decoder/Demux	20-BGA	.75	.63	.50
SN74LVC138AGQNR	296-12096-2-ND	3-to-8 Line Decoder/Demux	20-BGA	333.00/1,000		
SN74LVC138APWR	296-1223-1-ND	3-to-8 Line Decoder/Demux	16-TSSOP	.45	.36	.27
SN74LVC138APWR	296-1223-2-ND	3-to-8 Line Decoder/Demux	16-TSSOP	252.00/2,000		
SN74LVC138AQDREP	296-22334-1-ND	3-to-8 Line Decoder/Demux ***NEW!***	16-SOIC	.81	.68	.54
SN74LVC138AQDREP	296-22334-2-ND	3-to-8 Line Decoder/Demux ***NEW!***	16-SOIC	877.50/2,500		
SN74LVC138AQDRQ1	296-19474-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	.53	.42	.32
SN74LVC138AQDRQ1	296-19474-2-ND	3-to-8 Line Decoder/Demux	16-SOIC	355.00/2,500		
SN74LVC138AQPWREP	296-20727-1-ND	3-to-8 Line Decoder/Demux	16-TSSOP	.81	.68	.54
SN74LVC138AQPWREP	296-20727-2-ND	3-to-8 Line Decoder/Demux	16-TSSOP	718.00/2,000		
SN74LVC138ARGYR	296-13963-1-ND	3-to-8 Line Decoder/Demux	16-QFN	.66	.50	.38
SN74LVC138ARGYR	296-13963-2-ND	3-to-8 Line Decoder/Demux	16-QFN	219.00/1,000		
SN74LVC138AZQNR	296-23269-1-ND	3-to-8 Line Decoder/Demux ***NEW!***	20-VFBGA	.66	.50	.38
SN74LVC138AZQNR	296-23269-2-ND	3-to-8 Line Decoder/Demux ***NEW!***	20-VFBGA	219.00/1,000		
SN74LVC139AD	296-1698-5-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.48	.36	.27
SN74LVC139ADBR	296-8461-1-ND	Dual 2-4 Line Decoder/Demux	16-SSOP	.60	.45	.34
SN74LVC139ADBR	296-8461-2-ND	Dual 2-4 Line Decoder/Demux	16-SSOP	400.00/2,000		
SN74LVC139AGQNR	296-13236-1-ND	Dual 2-4 Line Decoder/Demux	16-VFBGA	.75	.63	.50
SN74LVC139AGQNR	296-13236-2-ND	Dual 2-4 Line Decoder/Demux	16-VFBGA	333.00/1,000		
SN74LVC139APWR	296-8462-1-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	.45	.36	.27
SN74LVC139APWR	296-8462-2-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	252.00/2,000		
SN74LVC139ARGYR	296-13964-1-ND	Dual 2-4 Line Decoder/Demux	16-QFN	.72	.54	.41
SN74LVC139ARGYR	296-13964-2-ND	Dual 2-4 Line Decoder/Demux	16-QFN	239.00/1,000		
SN74LVC157AD	296-1700-5-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.55	.44	.33
SN74LVC157ADBR	296-8465-1-ND	Quad 2-1 Data Selector/Mux.	16-SSOP	.55	.44	.33
SN74LVC157ADBR	296-8465-2-ND	Quad 2-1 Data Selector/Mux	16-SSOP	308.00/2,000		
SN74LVC157ADR	296-14907-1-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.42	.34	.25
SN74LVC157ADR	296-14907-2-ND	Quad 2-1 Data Selector/Mux	16-SOIC	280.00/2,500		
SN74LVC157APWR	296-1225-1-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	.42	.34	.25
SN74LVC157APWR	296-1225-2-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	232.00/2,000		
SN74LVC157AQDREP	296-22335-1-ND	Quad 2-1 Data Selector/Mux ***NEW!***	16-SOIC	.99	.83	.66
SN74LVC157AQDREP	296-22335-2-ND	Quad 2-1 Data Selector/Mux ***NEW!***	16-SOIC	1072.50/2,500		
SN74LVC157AQPWREP	296-22336-1-ND	Quad 2-1 Data Selector/Mux ***NEW!***	16-TSSOP	.99	.83	.66
SN74LVC157AQPWREP	296-22336-2-ND	Quad 2-1 Data Selector/Mux ***NEW!***	16-TSSOP	878.002,000		
SN74LVC157AQPWRQ1	296-17743-1-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	.65	.52	.39
SN74LVC157AQPWRQ1	296-17743-2-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	362.00/2,000		
SN74LVC157ARGYR	296-13966-1-ND	Quad 2-1 Data Selector/Mux	16-QFN	.66	.50	.38
SN74LVC157ARGYR	296-13966-2-ND	Quad 2-1 Data Selector/Mux	16-QFN	219.00/1,000		
SN74LVC240ADBR	296-8494-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.64	.48	.36
SN74LVC240ADBR	296-8494-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	426.00/2,000		
SN74LVC240ADGVR	296-8495-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.66	.50	.38
SN74LVC240ADGVR	296-8495-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	438.00/2,000		
SN74LVC240ADW	296-8496-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74LVC240ADWR	296-8496-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74LVC240ADWR	296-8496-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	400.00/2,000		
SN74LVC240ANSR	296-12902-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.64	.48	.36
SN74LVC240ANSR	296-12902-2-ND	Tri-State Octal Buffer/Driver	20-SOP	426.00/2,000		
SN74LVC240APWR	296-8498-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.60	.45	.34
SN74LVC240APWR	296-8498-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	400.00/2,000		
SN74LVC244ADBR	296-8499-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.50	.40	.30
SN74LVC244ADBR	296-8499-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	278.00/2,000		
SN74LVC244ADGVR	296-8500-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.48	.36	.27
SN74LVC244ADGVR	296-8500-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	320.00/2,000		
SN74LVC244ADWR	296-1229-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.50	.40	.30
SN74LVC244ADWR	296-1229-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	278.00/2,000		
SN74LVC244AGQNR	296-12097-1-ND	Tri-State Octal Buffer/Driver	20-BGA	.75	.63	.50
SN74LVC244AGQNR	296-12097-2-ND	Tri-State Octal Buffer/Driver	20-BGA	333.00/1,000		
SN74LVC244AN	296-8501-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.60	.45	.34
SN74LVC244ANSR	296-17115-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.55	.44	.33
SN74LVC244ANSR	296-17115-2-ND	Tri-State Octal Buffer/Driver	20-SOP	308.00/2,000		
SN74LVC244APWR	296-1230-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.47	.38	.29
SN74LVC244APWR	296-1230-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	264.00/2,000		
SN74LVC244ARGYR	296-13967-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.68	.51	.39
SN74LVC244ARGYR	296-13967-2-ND	Tri-State Octal Buffer/Driver	20-QFN	226.00/1,000		
SN74LVC244AZQNR	296-19878-1-ND	Tri-State Octal Buffer/Driver	20-BGA	.68	.51	.39
SN74LVC244AZQNR	296-19878-2-ND	Tri-State Octal Buffer/Driver	20-BGA	226.00/1,000		
SN74LVC245ADBR	296-1231-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.55	.44	.33
SN74LVC245ADBR	296-1231-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	308.00/2,000		
SN74LVC245ADGVR	296-8502-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.66	.50	.38
SN74LVC245ADGVR	296-8502-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	438.00/2,000		
SN74LVC245ADW	296-1232-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.55	.44	.33
SN74LVC245ADWR	296-1232-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.55	.44	.33
SN74LVC245ADWR	296-1232-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	308.00/2,000		
SN74LVC245AGQNR	296-12098-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.75	.63	.50
SN74LVC245AGQNR	296-12098-2-ND	Tri-State Octal Bus Transceiver	20-BGA	333.00/1,000		
SN74LVC245AIPWREP	296-22354-1-ND	Tri-State Octal Bus Transceiver ***NEW!***	20-TSSOP	1.02	.85	.68
SN74LVC245AIPWREP	296-22354-2-ND	Tri-State Octal Bus Transceiver ***NEW!***	20-TSSOP	904.00/2,000		
SN74LVC245AN	296-8503-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.60	.45	.34
SN74LVC245ANSR	296-13632-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.60	.45	.34
SN74LVC245ANSR	296-13632-2-ND	Tri-State Octal Bus Transceiver	20-SOP	400.00/2,000		
SN74LVC245APWR	296-1233-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.58	.47	.35
SN74LVC245APWR	296-1233-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	324.00/2,000		
SN74LVC245ARGYR	296-13968-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.68	.51	.39
SN74LVC245ARGYR	296-13968-2-ND	Tri-State Octal Bus Transceiver	20-QFN	226.00/1,000		
SN74LVC245AZQNR	296-21215-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.72	.54	.41
SN74LVC245AZQNR	296-21215-2-ND	Tri-State Octal Bus Transceiver	20-BGA	239.00/1,000		
SN74LVC257AD	296-8504-5-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.56	.42	.32
SN74LVC257ADBR	296-12903-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SSOP	.56	.42	.32
SN74LVC257ADBR	296-12903-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SSOP	372.00/2,000		
SN74LVC257ADR	296-8504-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.60	.45	.34
SN74LVC257ADR	296-8504-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	487.50/2,500		
SN74LVC257AMPWREP	296-22355-1-ND	Tri-State Quad 2-1 Data Selector/Mux ***NEW!***	16-TSSOP	2.20	1.76	1.32
SN74LVC257AMPWREP	296-22355-2-ND	Tri-State Quad 2-1 Line Data Selector/Mux ***NEW!***	16-TSSOP	2288.00/2,000		
SN74LVC257APWR	296-8506-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-TSSOP	.42	.34	.25
SN74LVC257APWR	296-8506-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-TSSOP	232.00/2,000		
SN74LVC257AQDREP	296-22356-1-ND	Tri-State Quad 2-1 Data Selector/Mux ***NEW!***	16-SOIC	1.35	1.13	.90
SN74LVC257AQDREP	296-22356-2-ND	Tri-State Quad 2-1 Data Selector/Mux ***NEW!***	16-SOIC	1462.50/2,500		
SN74LVC257AQDRQ1	296-18658-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.88	.71	.53
SN74LVC257AQDRQ1	296-18658-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	595.00/2,500		
SN74LVC257AQPWREP	296-22357-1-ND	Tri-State Quad 2-1 Data Selector/Mux ***NEW!***	16-TSSOP	1.26	1.05	.84
SN74LVC257AQPWREP	296-22357-2-ND	Tri-State Quad 2-1 Data Selector/Mux ***NEW!***	16-TSSOP	1118.00/2,000		
SN74LVC257ARGYR	296-13969-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-QFN	.68	.51	.39
SN74LVC257ARGYR	296-13969-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-QFN	226.00/1,000		
SN74LVC373ADBR	296-1237-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.48	.36	.27
SN74LVC373ADBR	296-1237-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	320.00/2,000		
SN74LVC373ADGVR	296-8510-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.53	.40	.30
SN74LVC373ADGVR	296-8510-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	352.00/2,000		
SN74LVC373ADW	296-8511-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.48	.36	.27
SN74LVC373ADWR	296-8511-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.48	.36	.27
SN74LVC373ADWR	296-8511-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	320.00/2,000		
SN74LVC373AGQNR	296-12099-1-ND	Tri-State Octal Transp. D-Type Latch	20-BGA	.90	.75	.60
SN74LVC373AGQNR	296-12099-2-ND	Tri-State Octal Transp. D-Type Latch	20-BGA	399.00/1,000		
SN74LVC373AMDBREP	296-22364-1-ND	Tri-State Octal Transparent D-Type Latch ***NEW!***	20-SSOP	1.08	.90	.72
SN74LVC373AMDBREP	296-22364-2-ND	Tri-State Octal Transparent D-Type Latch ***NEW!***	20-SSOP	958.00/2,000		
SN74LVC373AN	296-12905-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.68	.51	.39
SN74LVC373APWR	296-8512-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.48	.36	.27
SN74LVC373APWR	296-8512-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	320.00/2,000		
SN74LVC373AQDWREP	296-22365-1-ND	Tri-State Octal Transparent D-Type Latch ***NEW!***	20-SOIC	1.08	.90	.72
SN74LVC373AQDWREP	296-22365-2-ND	Tri-State Octal Transparent D-Type Latch ***NEW!***	20-SOIC	958.00/2,000		
SN74LVC373AQPWREP	296-22366-1-ND	Tri-State Octal Transparent D-Type Latch ***NEW!***	20-TSSOP	1.08	.90	.72
SN74LVC373AQPWREP	296-22366-2-ND	Tri-State Octal Transparent D-Type Latch ***NEW!***	20-TSSOP	958.002,000		
SN74LVC373ARGYR	296-13973-1-ND	Tri-State Octal Transp. D-Type Latch	20-QFN	.80	.60	.45
SN74LVC373ARGYR	296-13973-2-ND	Tri-State Octal Transp. D-Type Latch	20-QFN	266.00/1,000		
SN74LVC374ADBR	296-8513-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.48	.36	.27
SN74LVC374ADBR	296-8513-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	320.00/2,000		
SN74LVC374ADGVR	296-12906-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.53	.40	.30
SN74LVC374ADGVR	296-12906-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	352.00/2,000		
SN74LVC374ADW	296-1701-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74LVC374ADWR	296-1701-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74LVC374ADWR	296-1701-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	320.00/2,000		
SN74LVC374AN	296-12907-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.68	.51	.39
SN74LVC374APWR	296-1238-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
SN74LVC374APWR	296-1238-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	320.00/2,000		
SN74LVC374AQDWREP	296-22367-1-ND	Tri-State Octal D-Type F/F ***NEW!***	20-SOIC	1.08	.90	.72
SN74LVC374AQDWREP	296-22367-2-ND	Tri-State Octal D-Type F/F ***NEW!***	20-SOIC	958.00/2,000		
SN74LVC374AQPWREP	296-22368-1-ND	Tri-State Octal D-Type F/F ***NEW!***	20-TSSOP	1.08	.90	.72
SN74LVC374AQPWREP	296-22368-2-ND	Tri-State Octal D-Type F/F ***NEW!***	20-TSSOP	958.00/2,000		
SN74LVC374ARGYR	296-14910-1-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	.68	.51	.39
SN74LVC374ARGYR	296-14910-2-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	226.00/1,000		
SN74LVC540ADBR	296-8516-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.56	.42	.32
SN74LVC540ADBR	296-8516-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	372.00/2,000		
SN74LVC540ADGVR	296-12908-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.62	.47	.35
SN74LVC540ADGVR	296-12908-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	410.00/2,000		
SN74LVC540ADWR	296-8517-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74LVC540ADWR	296-8517-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	372.00/2,000		
SN74LVC540APWR	296-12909-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.64	.48	.36
SN74LVC540APWR	296-12909-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	426.00/2,000		
SN74LVC540AQDWREP	296-22370-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	1.26	1.05	.84
SN74LVC540AQDWREP	296-22370-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	1118.00/2,000		
SN74LVC540AQPWREP	296-22371-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	1.44	1.20	.96
SN74LVC540AQPWREP	296-22371-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	1276.00/2,000		
SN74LVC541ADBR	296-8518-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.48	.36
SN74LVC541ADBR	296-8518-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	336.00/2,000		
SN74LVC541ADGVR	296-8519-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.53	.40	.30

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LVC541ADGVR	296-8519-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	352.00/2,000		
SN74LVC541ADW	296-8520-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.48	.36
SN74LVC541ADWR	296-14912-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74LVC541ADWR	296-14912-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	320.00/2,000		
SN74LVC541ANSR	296-15847-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.48	.36	.27
SN74LVC541ANSR	296-15847-2-ND	Tri-State Octal Buffer/Driver	20-SOP	320.00/2,000		
SN74LVC541APWR	296-8521-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.48	.36	.27
SN74LVC541APWR	296-8521-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	320.00/2,000		
SN74LVC541AQDWREP	296-22372-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	1.08	.90	.72
SN74LVC541AQDWREP	296-22372-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	958.00/2,000		
SN74LVC541AQPWREP	296-22373-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	1.08	.90	.72
SN74LVC541AQPWREP	296-22373-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	958.00/2,000		
SN74LVC541ARGYR	296-13974-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.88	.66	.50
SN74LVC541ARGYR	296-13974-2-ND	Tri-State Octal Buffer/Driver	20-QFN	293.00/1,000		
SN74LVC543ADBR	296-8522-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	1.05	.88	.70
SN74LVC543ADBR	296-8522-2-ND	Tri-State Octal Registered Transceiver	24-SSOP	932.00/2,000		
SN74LVC543ADW	296-8523-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.05	.88	.70
SN74LVC543APWR	296-8524-1-ND	Tri-State Octal Registered Transceiver	24-TSSOP	1.05	.88	.70
SN74LVC543APWR	296-8524-2-ND	Tri-State Octal Registered Transceiver	24-TSSOP	932.00/2,000		
SN74LVC573ADBR	296-8525-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.60	.48	.36
SN74LVC573ADBR	296-8525-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	336.00/2,000		
SN74LVC573ADGVR	296-8526-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.53	.40	.30
SN74LVC573ADGVR	296-8526-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	352.00/2,000		
SN74LVC573ADW	296-8527-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.60	.48	.36
SN74LVC573ADWR	296-14913-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.48	.36	.27
SN74LVC573ADWR	296-14913-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	320.00/2,000		
SN74LVC573AGQNR	296-12100-1-ND	Tri-State Octal Transp. D-Type Latch	20-BGA	.90	.75	.60
SN74LVC573AGQNR	296-12100-2-ND	Tri-State Octal Transp. D-Type Latch	20-BGA	399.00/1,000		
SN74LVC573AN	296-8528-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.60	.45	.34
SN74LVC573APWR	296-8529-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.48	.36	.27
SN74LVC573APWR	296-8529-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	320.00/2,000		
SN74LVC573AQDWREP	296-22374-1-ND	Tri-State Octal Transparent D-Type Latch ***NEW!***	20-SOIC	1.08	.90	.72
SN74LVC573AQDWREP	296-22374-2-ND	Tri-State Octal Transparent D-Type Latch ***NEW!***	20-SOIC	958.00/2,000		
SN74LVC573AQPWREP	296-22375-1-ND	Tri-State Octal Transparent D-Type Latch ***NEW!***	20-TSSOP	1.08	.90	.72
SN74LVC573AQPWREP	296-22375-2-ND	Tri-State Octal Transparent D-Type Latch ***NEW!***	20-TSSOP	958.00/2,000		
SN74LVC573ARGYR	296-13975-1-ND	Tri-State Octal Transp. D-Type Latch	20-QFN	.80	.60	.45
SN74LVC573ARGYR	296-13975-2-ND	Tri-State Octal Transp. D-Type Latch	20-QFN	266.00/1,000		
SN74LVC574ADBR	296-8530-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SSOP	.60	.48	.36
SN74LVC574ADBR	296-8530-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SSOP	336.00/2,000		
SN74LVC574ADGVR	296-12475-1-ND	Tri-St. Octal Edge-Triggered D-Type Flip-Flop	20-TVSOP	.53	.40	.30
SN74LVC574ADGVR	296-12475-2-ND	Tri-St. Octal Edge-Triggered D-Type Flip-Flop	20-TVSOP	352.00/2,000		
SN74LVC574ADW	296-8531-5-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	.60	.48	.36
SN74LVC574ADWR	296-14914-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	.48	.36	.27
SN74LVC574ADWR	296-14914-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-SOIC	320.00/2,000		
SN74LVC574AGQNR	296-12101-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-BGA	.90	.75	.60
SN74LVC574AGQNR	296-12101-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-BGA	399.00/1,000		
SN74LVC574AN	296-12910-5-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-Dip	.60	.45	.34
SN74LVC574APWR	296-8532-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	.48	.36	.27
SN74LVC574APWR	296-8532-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-TSSOP	320.00/2,000		
SN74LVC574AQDWREP	296-22376-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop ***NEW!***	20-SOIC	1.08	.90	.72
SN74LVC574AQDWREP	296-22376-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop ***NEW!***	20-SOIC	958.00/2,000		
SN74LVC574AQPWREP	296-22377-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop ***NEW!***	20-TSSOP	1.08	.90	.72
SN74LVC574AQPWREP	296-22377-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop ***NEW!***	20-TSSOP	958.00/2,000		
SN74LVC574ARGYR	296-13976-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-QFN	.68	.51	.39
SN74LVC574ARGYR	296-13976-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F	20-QFN	226.00/1,000		
SN74LVC574AZQNR	296-22017-1-ND	Tri-St. Octal Edge-Triggered D-Type F/F ***NEW!***	20-BGA	.68	.51	.39
SN74LVC574AZQNR	296-22017-2-ND	Tri-St. Octal Edge-Triggered D-Type F/F ***NEW!***	20-BGA	226.00/1,000		
SN74LVC646ADBR	296-8533-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.26	1.05	.84
SN74LVC646ADBR	296-8533-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1118.00/2,000		
SN74LVC646ADW	296-8534-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOIC	1.26	1.05	.84
SN74LVC646APWR	296-8535-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.26	1.05	.84
SN74LVC646APWR	296-8535-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1118.00/2,000		
SN74LVC652ADBR	296-8536-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.05	.88	.70
SN74LVC652ADBR	296-8536-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	932.00/2,000		
SN74LVC652ADW	296-8537-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOIC	1.05	.88	.70
SN74LVC652APWR	296-8538-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.05	.88	.70
SN74LVC652APWR	296-8538-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	932.00/2,000		
SN74LVC821ADBR	296-8539-1-ND	Tri-State 10-Bit Interface Flip-Flop	24-SSOP	.96	.80	.64
SN74LVC821ADBR	296-8539-2-ND	Tri-State 10-Bit Interface Flip-Flop	24-SSOP	852.00/2,000		
SN74LVC821ADGVR	296-8540-1-ND	Tri-State 10-Bit Interface Flip-Flop	24-TVSOP	.96	.80	.64
SN74LVC821ADGVR	296-8540-2-ND	Tri-State 10-Bit Interface Flip-Flop	24-TVSOP	852.00/2,000		
SN74LVC821ADW	296-1703-5-ND	Tri-State 10-Bit Interface Flip-Flop	24-SOIC	.96	.80	.64
SN74LVC821ADWR	296-1703-1-ND	Tri-State 10-Bit Bus-Interface Flip-Flop	24-SOIC	.96	.80	.64
SN74LVC821ADWR	296-1703-2-ND	Tri-State 10-Bit Bus-Interface Flip-Flop	24-SOIC	852.00/2,000		
SN74LVC821APWR	296-8541-1-ND	Tri-State 10-Bit Interface Flip-Flop	24-TSSOP	.96	.80	.64
SN74LVC821APWR	296-8541-2-ND	Tri-State 10-Bit Interface Flip-Flop	24-TSSOP	852.00/2,000		
SN74LVC823ADBR	296-8542-1-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-SSOP	.75	.63	.50
SN74LVC823ADBR	296-8542-2-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-SSOP	666.00/2,000		
SN74LVC823ADGVR	296-8543-1-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TVSOP	1.05	.88	.70
SN74LVC823ADGVR	296-8543-2-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TVSOP	932.00/2,000		
SN74LVC823ADW	296-12911-5-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-SOIC	.75	.63	.50
SN74LVC823APWR	296-8544-1-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TSSOP	.75	.63	.50
SN74LVC823APWR	296-8544-2-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TSSOP	666.00/2,000		
SN74LVC827ADBR	296-8545-1-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	1.11	.93	.74
SN74LVC827ADBR	296-8545-2-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	984.00/2,000		
SN74LVC827ADGVR	296-8546-1-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	1.11	.93	.74
SN74LVC827ADGVR	296-8546-2-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	984.00/2,000		
SN74LVC827ADW	296-8547-5-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1.11	.93	.74
SN74LVC827APWR	296-8548-1-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	.97	.73	.55
SN74LVC827APWR	296-8548-2-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	644.00/2,000		
SN74LVC828ADBR	296-12912-1-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	1.11	.93	.74
SN74LVC828ADBR	296-12912-2-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	984.00/2,000		
SN74LVC828ADGVR	296-12741-1-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	1.11	.93	.74
SN74LVC828ADGVR	296-12741-2-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	984.00/2,000		
SN74LVC828ADW	296-12913-5-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1.11	.93	.74
SN74LVC828APWR	296-8549-1-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	1.11	.93	.74
SN74LVC828APWR	296-8549-2-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	984.00/2,000		
SN74LVC841ADBR	296-8550-1-ND	Tri-St. 10-Bit Interface D-Type Latch	24-SSOP	1.70	1.36	1.02
SN74LVC841ADBR	296-8550-2-ND	Tri-St. 10-Bit Interface D-Type Latch	24-SSOP	1768.00/2,000		
SN74LVC841ADGVR	296-8551-1-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TVSOP	1.70	1.36	1.02
SN74LVC841ADGVR	296-8551-2-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TVSOP	1768.00/2,000		
SN74LVC841ADW	296-8552-5-ND	Tri-St. 10-Bit Interface D-Type Latch	24-SOIC	1.70	1.36	1.02
SN74LVC841APWR	296-8553-1-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TSSOP	1.70	1.36	1.02
SN74LVC841APWR	296-8553-2-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TSSOP	1768.00/2,000		
SN74LVC861ADBR	296-12914-1-ND	Tri-State 10-Bit Bus Transceiver	24-SSOP	2.05	1.64	1.23
SN74LVC861ADBR	296-12914-2-ND	Tri-State 10-Bit Bus Transceiver	24-SSOP	2132.00/2,000		
SN74LVC861ADGVR	296-8555-1-ND	Tri-State 10-Bit Bus Transceiver	24-TVSOP	2.05	1.64	1.23
SN74LVC861ADGVR	296-8555-2-ND	Tri-State 10-Bit Bus Transceiver	24-TVSOP	2132.00/2,000		
SN74LVC861ADW	296-8556-5-ND	Tri-State 10-Bit Bus Transceiver	24-SOIC	2.05	1.64	1.23
SN74LVC861APWR	296-12915-1-ND	Tri-State 10-Bit Bus Transceiver	24-TSSOP	2.05	1.64	1.23
SN74LVC861APWR	296-12915-2-ND	Tri-State 10-Bit Bus Transceiver	24-TSSOP	2132.00/2,000		
SN74LVC863ADBR	296-8557-1-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	2.05	1.64	1.23
SN74LVC863ADBR	296-8557-2-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	2132.00/2,000		
SN74LVC863ADGVR	296-8558-1-ND	Tri-State 9-Bit Bus Transceiver	24-TVSOP	2.05	1.64	1.23
SN74LVC863ADGVR	296-8558-2-ND	Tri-State 9-Bit Bus Transceiver	24-TVSOP	2132.00/2,000		
SN74LVC863ADW	296-8559-5-ND	Tri-State 9-Bit Bus Transceiver	24-SOIC	2.05	1.64	1.23
SN74LVC863APWR	296-8560-1-ND	Tri-State 9-Bit Bus Transceiver	24-TSSOP	2.05	1.64	1.23
SN74LVC863APWR	296-8560-2-ND	Tri-State 9-Bit Bus Transceiver	24-TSSOP	2132.00/2,000		
SN74LVC1404DCTR	296-17257-1-ND	Oscillator Driver	SM8	.81	.68	.54
SN74LVC1404DCTR	296-17257-2-ND	Oscillator Driver	SM8	1053.00/3,000		
SN74LVC1404YEPR	296-18751-1-ND	Oscillator Driver	8-DSBGA	1.35	1.13	.90
SN74LVC1404YEPR	296-18751-2-ND	Oscillator Driver	8-DSBGA	1755.00/3,000		
SN74LVC1404YZPR	296-18082-1-ND	Oscillator Driver	8-DSBGA	.90	.75	.60
SN74LVC1404YZPR	296-18082-2-ND	Oscillator Driver	8-DSBGA	1170.00/3,000		
SN74LVC2244ADBR	296-8489-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74LVC2244ADBR	296-8489-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74LVC2244ADBQR	296-23275-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SSOP	.60	.45	.34
SN74LVC2244ADBQR	296-23275-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SSOP	487.50/2,500		
SN74LVC2244ADGVR	296-12901-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.80	.60	.45
SN74LVC2244ADGVR	296-12901-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	532.00/2,000		
SN74LVC2244ADW	296-8490-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74LVC2244ADWR	296-8490-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.72	.54	.41
SN74LVC2244ADWR	296-8490-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	478.00/2,000		
SN74LVC2244ANSR	296-13256-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.60	.45	.34
SN74LVC2244ANSR	296-13256-2-ND	Tri-State Octal Buffer/Driver	20-SOP	400.00/2,000		
SN74LVC2244APWR	296-8491-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.51	.39	.29
SN74LVC2244APWR	296-8491-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	338.00/2,000		
SN74LVC2952ADBR	296-12904-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.05	.88	.70
SN74LVC2952ADBR	296-12904-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	932.00/2,000		
SN74LVC2952ADW	296-8507-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOIC	1.05	.88	.70
SN74LVC2952APWR	296-8508-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.05	.88	.70
SN74LVC2952APWR	296-8508-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	932.00/2,000		
SN74LVC4245ADBR	296-8514-1-ND	Tri-St. Octal Bus Xcvr./3.3V-5V Shifter	24-SSOP	.88	.66	.50
SN74LVC4245ADBR	296-8514-2-ND	Tri-St. Octal Bus Xcvr./3.3V-5V Shifter	24-SSOP	586.00/2,000		
SN74LVC4245ADW	296-8515-5-ND	Tri-St. Octal Bus Xcvr./3.3V-5V Shifter	24-SOIC	.88	.66	.50
SN74LVC4245ADWR	296-14911-1-ND	Tri-St. Octal Bus Xcvr./3.3V-5V Shifter	24-SOIC	.90	.75	.60
SN74LVC4245ADWR	296-14911-2-ND	Tri-St. Octal Bus Xcvr./3.3V-5V Shifter	24-SOIC	798.00/2,000		
SN74LVC4245AIPWREP	296-22369-1-ND	Tri-State Octal Bus Transceiver and 3.3V-5V Shifter ***NEW!***	24-TSSOP	1.68	1.34	1.01
SN74LVC4245AIPWREP	296-22369-2-ND	Tri-State Octal Bus Transceiver and 3.3V-5V Shifter ***NEW!***	24-TSSOP	1742.00/2,000		
SN74LVC4245APWR	296-12183-1-ND	Tri-State Octal Xcvr./3.3V-5V Shifter	24-TSSOP	.97	.73	.55
SN74LVC4245APWR	296-12183-2-ND	Tri-State Octal Xcvr./3.3V-5V Shifter	24-TSSOP	644.00/2,000		
SN74LVC16244ADGGR	296-1226-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.88	.66	.50
SN74LVC16244ADGGR	296-1226-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	586.00/2,000		
SN74LVC16244ADGVR	296-8471-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.26	1.05	.84
SN74LVC16244ADGVR	296-8471-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1118.00/2,000		
SN74LVC16244ADL	296-1227-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVC16244ADLR	296-1227-1-ND	16-Bit Buffer/Driver	48-SSOP	.88	.66	.50
SN74LVC16244ADLR	296-1227-2-ND	16-Bit Buffer/Driver	48-SSOP	293.00/1,000		
SN74LVC16244AGQLR	296-8472-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	2.70	2.16	1.68
SN74LVC16244AGQLR	296-8472-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1530.00/1,000		
SN74LVC16244AGRDR	296-16881-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	2.25	1.80	1.35
SN74LVC16244AGRDR	296-16881-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	1170.00/1,000		
SN74LVC16244AZQLR	296-16642-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1.95	1.56	1.17
SN74LVC16244AZQLR	296-16642-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1014.00/1,000		
SN74LVC16244AZRDR	296-16882-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	1.45	1.16	.87
SN74LVC16244AZRDR	296-16882-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	754.00/1,000		
SN74LVC16245ADGGR	296-1228-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	.76	.64	.51
SN74LVC16245ADGGR	296-1228-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	672.00/2,000		
SN74LVC16245ADGVR	296-8473-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.26	1.05	.84
SN74LVC16245ADGVR	296-8473-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1118.00/2,000		
SN74LVC16245ADL	296-8474-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76
SN74LVC16245ADLR	296-8474-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76
SN74LVC16245ADLR	296-8474-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	505.00/1,000		
SN74LVC16245AGQLR	296-9843-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	2.70	2.16	1.68
SN74LVC16245AGQLR	296-9843-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	1530.00/1,000		
SN74LVC16245AGRDR	296-16883-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	2.25	1.80	1.35
SN74LVC16245AGRDR	296-16883-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	1170.00/1,000		
SN74LVC16245AZQLR	296-23271-1-ND	Tri-St. 16-Bit Bus Transceiver ***NEW!***	56-VFBGA	1.95	1.56	1.17
SN74LVC16245AZQLR	296-23271-2-ND	Tri-St. 16-Bit Bus Transceiver ***NEW!***	56-VFBGA	1014.00/1,000		
SN74LVC16245AZRDR	296-16884-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	1.45	1.16	.87
SN74LVC16245AZRDR	296-16884-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	754.00/1,000		
SN74LVC16373ADGGR	296-13241-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	.76	.64	.51
SN74LVC16373ADGGR	296-13241-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	672.00/2,000		
SN74LVC16373ADGVR	296-13242-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	1.26	1.05	.84
SN74LVC16373ADGVR	296-13242-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	1118.00/2,000		
SN74LVC16373ADLR	296-13243-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	1.14	.95	.76

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC16373ADLR	296-13243-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	505.00/1,000		
SN74LVC16373AGQLR	296-13244-1-ND	Tri-State 16-Bit Transparent D-Type Latch	56-VFBGA	2.70	2.16	1.68
SN74LVC16373AGQLR	296-13244-2-ND	Tri-State 16-Bit Transparent D-Type Latch	56-VFBGA	1530.00/1,000		
SN74LVC16373AZQLR	296-23272-1-ND	Tri-St. 16-Bit Transparent D-Type Latch ***NEW!***	56-VFBGA	1.95	1.56	1.17
SN74LVC16373AZQLR	296-23272-2-ND	Tri-St. 16-Bit Transparent D-Type Latch ***NEW!***	56-VFBGA	1014.00/1,000		
SN74LVC16373DGGR	296-11848-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	1.14	.95	.76
SN74LVC16373DGGR	296-11848-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	1010.00/2,000		
SN74LVC16373DL	296-11834-5-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	1.14	.95	.76
SN74LVC16373DLR	296-11834-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	1.14	.95	.76
SN74LVC16373DLR	296-11834-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	505.00/1,000		
SN74LVC16374ADGGR	296-13245-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1.14	.95	.76
SN74LVC16374ADGGR	296-13245-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1010.00/2,000		
SN74LVC16374ADGVR	296-13246-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	1.26	1.05	.84
SN74LVC16374ADGVR	296-13246-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	1118.00/2,000		
SN74LVC16374ADLR	296-13247-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1.14	.95	.76
SN74LVC16374ADLR	296-13247-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	505.00/1,000		
SN74LVC16374AGQLR	296-13248-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	2.70	2.16	1.68
SN74LVC16374AGQLR	296-13248-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	1530.00/1,000		
SN74LVC16374AGRDR	296-16885-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	2.25	1.80	1.35
SN74LVC16374AGRDR	296-16885-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	1170.00/1,000		
SN74LVC16374AZRDR	296-16886-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	1.45	1.16	.87
SN74LVC16374AZRDR	296-16886-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	754.00/1,000		
SN74LVC16374DGGR	296-11833-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1.14	.95	.76
SN74LVC16374DGGR	296-11833-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1010.00/2,000		
SN74LVC16374DLR	296-11851-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1.14	.95	.76
SN74LVC16374DLR	296-11851-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	505.00/1,000		
SN74LVC16543DGGR	296-9844-1-ND	Tri-State 16-Bit Bus Transceiver	56-TSSOP	2.70	2.16	1.68
SN74LVC16543DGGR	296-9844-2-ND	Tri-State 16-Bit Bus Transceiver	56-TSSOP	3060.00/2,000		
SN74LVC16646ADGGR	296-15561-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TSSOP	1.63	1.30	.98
SN74LVC16646ADGVR	296-15562-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	1.63	1.30	.98
SN74LVC16646ADGVR	296-15562-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	1690.00/2,000		
SN74LVC16646ADLR	296-15563-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1.63	1.30	.98
SN74LVC16646ADLR	296-15563-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	845.00/1,000		
SN74LVC32244GKER	296-8509-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	5.20	4.16	3.51
SN74LVC32244GKER	296-8509-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3250.00/1,000		
SN74LVC32245GKER	296-9855-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	5.20	4.16	3.51
SN74LVC32245GKER	296-9855-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3250.00/1,000		
SN74LVC32245ZKER	296-15336-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3.71	2.97	2.31
SN74LVC32245ZKER	296-15336-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2104.00/1,000		
SN74LVC32373AGKER	296-18812-1-ND	Tri-State 32-Bit Transparent D-Type Latch	96-LFBGA	5.20	4.16	3.51
SN74LVC32373AGKER	296-18812-2-ND	Tri-State 32-Bit Transparent D-Type Latch	96-LFBGA	3250.00/1,000		
SN74LVC32373AZKER	296-18813-1-ND	Tri-State 32-Bit Transparent D-Type Latch	96-LFBGA	3.71	2.97	2.31
SN74LVC32373AZKER	296-18813-2-ND	Tri-State 32-Bit Transparent D-Type Latch	96-LFBGA	2104.00/1,000		
SN74LVC32374AGKER	296-15596-1-ND	Tri-St. 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	5.20	4.16	3.51
SN74LVC32374AGKER	296-15596-2-ND	Tri-St. 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	3250.00/1,000		
SN74LVC32374AZKER	296-23278-1-ND	Tri-St. 32-Bit Edge-Triggered D-Type Flip-Flop ***NEW!***	96-LFBGA	2.93	2.34	1.82
SN74LVC32374AZKER	296-23278-2-ND	Tri-St. 32-Bit Edge-Triggered D-Type Flip-Flop ***NEW!***	96-LFBGA	1658.00/1,000		
SN74LVC161284DGGR	296-8466-1-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1.41	1.18	.94
SN74LVC161284DGGR	296-8466-2-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1250.00/2,000		
SN74LVC161284DL	296-8467-5-ND	Tri-State 19-Bit Bus Interface	48-SSOP	1.41	1.18	.94
SN74LVC161284DLR	296-8467-1-ND	Tri-State 19-Bit Bus Interface	48-SSOP	1.41	1.18	.94
SN74LVC161284DLR	296-8467-2-ND	Tri-State 19-Bit Bus Interface	48-SSOP	625.00/1,000		
SN74LVC162244ADGGR	296-13237-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.79	.66	.53
SN74LVC162244ADGGR	296-13237-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	702.00/2,000		
SN74LVC162244ADGVR	296-13238-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.26	1.05	.84
SN74LVC162244ADGVR	296-13238-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1118.00/2,000		
SN74LVC162244ADLR	296-13239-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVC162244ADLR	296-13239-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	505.00/1,000		
SN74LVC162244AGQLR	296-13240-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	2.70	2.16	1.68
SN74LVC162244AGQLR	296-13240-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1530.00/1,000		

LVCC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CLVCC3245AIDBREP	296-22112-1-ND	Tri-St. Octal Bus Transceiver ***NEW!***	24-SSOP	1.98	1.58	1.19
CLVCC3245AIDBREP	296-22112-2-ND	Tri-St. Octal Bus Transceiver ***NEW!***	24-SSOP	2054.00/2,000		
CLVCC3245AIDWREP	296-18096-1-ND	Tri-State Octal Bus Transceiver	24-SOIC	1.98	1.58	1.19
CLVCC3245AIDWREP	296-18096-2-ND	Tri-State Octal Bus Transceiver	24-SOIC	2054.00/2,000		
CLVCC3245AIPWREP	296-22113-1-ND	Tri-St. Octal Bus Transceiver ***NEW!***	24-TSSOP	1.98	1.58	1.19
CLVCC3245AIPWREP	296-22113-2-ND	Tri-St. Octal Bus Transceiver ***NEW!***	24-TSSOP	2054.00/2,000		
CLVCC4245AMPWREP	296-22114-1-ND	Tri-St. Octal Dual Supply Bus Transceiver ***NEW!***	24-TSSOP	2.36	1.89	1.47
CLVCC4245AMPWREP	296-22114-2-ND	Tri-St. Octal Dual Supply Bus Transceiver ***NEW!***	24-TSSOP	2678.00/2,000		
SN74LVCC3245ADBQR	296-23281-1-ND	Tri-St. Octal Bus Transceiver ***NEW!***	24-QSOP	1.05	.88	.70
SN74LVCC3245ADBQR	296-23281-2-ND	Tri-St. Octal Bus Transceiver ***NEW!***	24-QSOP	1137.50/2,500		
SN74LVCC3245ADBR	296-8563-1-ND	Tri-State Octal Bus Transceiver	24-SSOP	1.05	.88	.70
SN74LVCC3245ADBR	296-8563-2-ND	Tri-State Octal Bus Transceiver	24-SSOP	932.00/2,000		
SN74LVCC3245ADW	296-1704-5-ND	Tri-State Octal Bus Transceiver	24-SOIC	1.05	.88	.70
SN74LVCC3245ADWR	296-14916-1-ND	Tri-State Octal Bus Transceiver	24-SOIC	1.05	.88	.70
SN74LVCC3245ADWR	296-14916-2-ND	Tri-State Octal Bus Transceiver	24-SOIC	932.00/2,000		
SN74LVCC3245ANSR	296-17208-1-ND	Tri-State Octal Bus Transceiver	24-SOP	1.05	.88	.70
SN74LVCC3245ANSR	296-17208-2-ND	Tri-State Octal Bus Transceiver	24-SOP	932.00/2,000		
SN74LVCC3245APWR	296-8564-1-ND	Tri-State Octal Bus Transceiver	24-TSSOP	.92	.77	.62
SN74LVCC3245APWR	296-8564-2-ND	Tri-State Octal Bus Transceiver	24-TSSOP	820.00/2,000		
SN74LVCC4245ADBR	296-8565-1-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SSOP	1.05	.88	.70
SN74LVCC4245ADBR	296-8565-2-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SSOP	932.00/2,000		
SN74LVCC4245ADW	296-8566-5-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SOIC	1.05	.88	.70
SN74LVCC4245ANSR	296-17209-1-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SOP	1.05	.88	.70
SN74LVCC4245ANSR	296-17209-2-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SOP	932.00/2,000		
SN74LVCC4245APWR	296-8567-1-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-TSSOP	1.05	.88	.70
SN74LVCC4245APWR	296-8567-2-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-TSSOP	932.00/2,000		

LVCE Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCE161284DGGR	296-18822-1-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-TSSOP	2.28	1.82	1.37
SN74LVCE161284DGGR	296-18822-2-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-TSSOP	2366.00/2,000		
SN74LVCE161284DLR	296-16922-1-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-SSOP	2.28	1.82	1.37
SN74LVCE161284DLR	296-16922-2-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-SSOP	1183.00/1,000		
SN74LVCE161284VR	296-18824-1-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-TVSOP	2.28	1.82	1.37
SN74LVCE161284VR	296-18824-2-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-TVSOP	2366.00/2,000		

LVCH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVCH16T245ZQLR	296-18616-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	2.08	1.66	1.25
74LVCH16T245ZQLR	296-18616-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	1079.00/1,000		
74LVCH322244AZKER	296-23196-1-ND	Tri-St. 32-Bit Buffer/Driver ***NEW!***	96-LFBGA	3.96	3.17	2.47
74LVCH322244AZKER	296-23196-2-ND	Tri-St. 32-Bit Buffer/Driver ***NEW!***	96-LFBGA	2244.00/1,000		
CLVCH16652AIDGGREP	296-22115-1-ND	Tri-State 16-Bit Bus Transceiver/ Register ***NEW!***	56-TSSOP	4.05	3.24	2.52
CLVCH16652AIDGGREP	296-22115-2-ND	Tri-State 16-Bit Bus Transceiver/ Register ***NEW!***	56-TSSOP	4590.00/2,000		
SN74LVCH8T245DBR	296-21067-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-SSOP	1.05	.88	.70
SN74LVCH8T245DBR	296-21067-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-SSOP	932.00/2,000		
SN74LVCH8T245DGVR	296-21068-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-TVSOP	1.05	.88	.70
SN74LVCH8T245DGVR	296-21068-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-TVSOP	932.00/2,000		
SN74LVCH8T245PWR	296-21069-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-TSSOP	1.05	.88	.70
SN74LVCH8T245PWR	296-21069-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-TSSOP	932.00/2,000		
SN74LVCH8T245RHLR	296-21070-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-QFN	1.17	.98	.78
SN74LVCH8T245RHLR	296-21070-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-QFN	519.00/1,000		
SN74LVCH16T245DGGR	296-19568-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	1.88	1.50	1.13
SN74LVCH16T245DGGR	296-19568-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	1950.00/2,000		
SN74LVCH16T245DGVR	296-21066-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	1.88	1.50	1.13
SN74LVCH16T245DGVR	296-21066-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	1950.00/2,000		
SN74LVCH16T245DL	296-23283-5-ND	Tri-State 16-Bit Dual Supply Bus Transceiver ***NEW!***	48-SSOP	1.88	1.50	1.13
SN74LVCH16T245KR	296-18718-1-ND	16-Bit Dual-Supply Bus Transceiver	56-VFBGA	2.70	2.16	1.68
SN74LVCH16T245KR	296-18718-2-ND	16-Bit Dual-Supply Bus Transceiver	56-VFBGA	1530.00/1,000		
SN74LVCH244ADBQR	296-23284-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SSOP	.60	.45	.34
SN74LVCH244ADBQR	296-23284-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SSOP	487.50/2,500		
SN74LVCH244ADBR	296-8607-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74LVCH244ADBR	296-8607-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74LVCH244ADGVR	296-8608-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.80	.60	.45
SN74LVCH244ADGVR	296-8608-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	532.00/2,000		
SN74LVCH244ADWR	296-14917-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74LVCH244ADWR	296-14917-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	400.00/2,000		
SN74LVCH244APWR	296-8610-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.55	.42	.32
SN74LVCH244APWR	296-8610-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	368.00/2,000		
SN74LVCH244ARGYR	296-13979-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.80	.60	.45
SN74LVCH244ARGYR	296-13979-2-ND	Tri-State Octal Buffer/Driver	20-QFN	266.00/1,000		
SN74LVCH245ADBR	296-8611-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.60	.45	.34
SN74LVCH245ADBR	296-8611-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	400.00/2,000		
SN74LVCH245ADGVR	296-8612-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.66	.50	.38
SN74LVCH245ADGVR	296-8612-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	438.00/2,000		
SN74LVCH245ADW	296-8613-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74LVCH245ADWR	296-14918-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74LVCH245ADWR	296-14918-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	400.00/2,000		
SN74LVCH245AGQNR	296-12102-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.90	.75	.60
SN74LVCH245AGQNR	296-12102-2-ND	Tri-State Octal Bus Transceiver	20-BGA	399.00/1,000		
SN74LVCH245APWR	296-1247-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.55	.42	.32
SN74LVCH245APWR	296-1247-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	368.00/2,000		
SN74LVCH245ARGYR	296-13980-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.75	.63	.50
SN74LVCH245ARGYR	296-13980-2-ND	Tri-State Octal Bus Transceiver	20-QFN	333.00/1,000		
SN74LVCH16240ADGGR	296-8571-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.14	.95	.76

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCH16240ADGGR	296-8571-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1010.00/2,000		
SN74LVCH16240ADLR	296-8572-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVCH16240ADLR	296-8572-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	505.00/1,000		
SN74LVCH16244ADGGR	296-8573-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.79	.66	.53
SN74LVCH16244ADGGR	296-8573-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	702.00/2,000		
SN74LVCH16244ADGVR	296-8574-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.26	1.05	.84
SN74LVCH16244ADGVR	296-8574-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1118.00/2,000		
SN74LVCH16244ADL	296-1243-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVCH16244ADLR	296-1243-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVCH16244ADLR	296-1243-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	505.00/1,000		
SN74LVCH16244AGQLR	296-8578-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	2.70	2.16	1.68
SN74LVCH16244AGQLR	296-8578-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1530.00/1,000		
SN74LVCH16244AGRDR	296-16887-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	2.25	1.80	1.35
SN74LVCH16244AGRDR	296-16887-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	1170.00/1,000		
SN74LVCH16244AZQLR	296-23282-1-ND	Tri-State 16-Bit Buffer/Driver ***NEW!***	56-VFBGA	1.95	1.56	1.17
SN74LVCH16244AZQLR	296-23282-2-ND	Tri-State 16-Bit Buffer/Driver ***NEW!***	56-VFBGA	1014.00/1,000		
SN74LVCH16244AZRDR	296-16888-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	1.45	1.16	.87
SN74LVCH16244AZRDR	296-16888-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	754.00/1,000		
SN74LVCH16245ADGGR	296-1244-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	.92	.77	.62
SN74LVCH16245ADGGR	296-1244-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	820.00/2,000		
SN74LVCH16245ADGVR	296-8580-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.14	.95	.76
SN74LVCH16245ADGVR	296-8580-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1010.00/2,000		
SN74LVCH16245ADL	296-1245-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76
SN74LVCH16245ADLR	296-1245-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76
SN74LVCH16245ADLR	296-1245-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	505.00/1,000		
SN74LVCH16245AGQLR	296-8582-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	2.70	2.16	1.68
SN74LVCH16245AGQLR	296-8582-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	1530.00/1,000		
SN74LVCH16245AGRDR	296-16889-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	2.25	1.80	1.35
SN74LVCH16245AGRDR	296-16889-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	1170.00/1,000		
SN74LVCH16245AZRDR	296-16890-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	1.45	1.16	.87
SN74LVCH16245AZRDR	296-16890-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	754.00/1,000		
SN74LVCH16373ADGGR	296-8583-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.14	.95	.76
SN74LVCH16373ADGGR	296-8583-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1010.00/2,000		
SN74LVCH16373ADGVR	296-8584-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1.26	1.05	.84
SN74LVCH16373ADGVR	296-8584-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1118.00/2,000		
SN74LVCH16373ADL	296-8585-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.14	.95	.76
SN74LVCH16373ADLR	296-8585-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.14	.95	.76
SN74LVCH16373ADLR	296-8585-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	505.00/1,000		
SN74LVCH16373AGQLR	296-8586-1-ND	Tri-State 16-Bit Transp. D-Type Latch	56-VFBGA	2.70	2.16	1.68
SN74LVCH16373AGQLR	296-8586-2-ND	Tri-State 16-Bit Transp. D-Type Latch	56-VFBGA	1530.00/1,000		
SN74LVCH16374ADGGR	296-8587-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.14	.95	.76
SN74LVCH16374ADGGR	296-8587-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1010.00/2,000		
SN74LVCH16374ADGVR	296-8588-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1.26	1.05	.84
SN74LVCH16374ADGVR	296-8588-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1118.00/2,000		
SN74LVCH16374ADLR	296-8589-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.14	.95	.76
SN74LVCH16374ADLR	296-8589-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	505.00/1,000		
SN74LVCH16374AGQLR	296-8590-1-ND	Tri-State 16-Bit D-Type Flip-Flop	56-VFBGA	2.70	2.16	1.68
SN74LVCH16374AGQLR	296-8590-2-ND	Tri-State 16-Bit D-Type Flip-Flop	56-VFBGA	1530.00/1,000		
SN74LVCH16540ADGGR	296-8591-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.48	1.98	1.54
SN74LVCH16540ADGGR	296-8591-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2806.00/2,000		
SN74LVCH16540ADGVR	296-8592-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.48	1.98	1.54
SN74LVCH16540ADGVR	296-8592-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2806.00/2,000		
SN74LVCH16540ADL	296-8593-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.48	1.98	1.54
SN74LVCH16541ADGGR	296-8594-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.35	1.13	.90
SN74LVCH16541ADGGR	296-8594-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1198.00/2,000		
SN74LVCH16541ADGVR	296-8595-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.25	1.00	.75
SN74LVCH16541ADGVR	296-8595-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1300.00/2,000		
SN74LVCH16541ADL	296-8596-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.35	1.13	.90
SN74LVCH16543ADGGR	296-1246-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1.25	1.00	.75
SN74LVCH16543ADGGR	296-1246-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1300.00/2,000		
SN74LVCH16543ADGVR	296-8597-1-ND	Tri-State 16-Bit Registered Transceiver	56-TVSOP	1.38	1.10	.83
SN74LVCH16543ADGVR	296-8597-2-ND	Tri-State 16-Bit Registered Transceiver	56-TVSOP	1430.00/2,000		
SN74LVCH16543ADL	296-8598-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.65	1.32	.99
SN74LVCH16543ADLR	296-8598-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.65	1.32	.99
SN74LVCH16543ADLR	296-8598-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	858.00/1,000		
SN74LVCH16543AGQLR	296-13287-1-ND	Tri-State 16-Bit Registered Transceiver	56-VFBGA	2.70	2.16	1.68
SN74LVCH16543AGQLR	296-13287-2-ND	Tri-State 16-Bit Registered Transceiver	56-VFBGA	1530.00/1,000		
SN74LVCH16646ADGGR	296-8599-1-ND	Tri-State 16-Bit Transceiver/Register	56-TSSOP	2.00	1.60	1.20
SN74LVCH16646ADGGR	296-8599-2-ND	Tri-State 16-Bit Transceiver/Register	56-TSSOP	2080.00/2,000		
SN74LVCH16646ADGVR	296-9859-1-ND	Tri-State 16-Bit Transceiver/Register	56-TVSOP	2.00	1.60	1.20
SN74LVCH16646ADGVR	296-9859-2-ND	Tri-State 16-Bit Transceiver/Register	56-TVSOP	2080.00/2,000		
SN74LVCH16646ADL	296-8600-5-ND	Tri-State 16-Bit Transceiver/Register	56-SSOP	2.00	1.60	1.20
SN74LVCH16652ADGGR	296-8601-1-ND	Tri-State 16-Bit Transceiver/Register	56-TSSOP	2.00	1.60	1.20
SN74LVCH16652ADGGR	296-8601-2-ND	Tri-State 16-Bit Transceiver/Register	56-TSSOP	2080.00/2,000		
SN74LVCH16652ADGVR	296-8602-1-ND	Tri-State 16-Bit Transceiver/Register	56-TVSOP	2.00	1.60	1.20
SN74LVCH16652ADGVR	296-8602-2-ND	Tri-State 16-Bit Transceiver/Register	56-TVSOP	2080.00/2,000		
SN74LVCH16652ADL	296-8603-5-ND	Tri-State 16-Bit Transceiver/Register	56-SSOP	2.00	1.60	1.20
SN74LVCH16901DGGR	296-8604-1-ND	18-Bit Universal Bus Transceiver with Parity Gen/Checker	64-TSSOP	7.50	6.00	5.07
SN74LVCH16901DGGR	296-8604-2-ND	18-Bit Universal Bus Transceiver with Parity Gen/Checker	64-TSSOP	9376.00/2,000		
SN74LVCH16952ADGGR	296-8605-1-ND	Tri-State 16-Bit Register Transceiver	56-TSSOP	3.60	2.88	2.24
SN74LVCH16952ADGGR	296-8605-2-ND	Tri-State 16-Bit Register Transceiver	56-TSSOP	4080.00/2,000		
SN74LVCH16952ADGVR	296-12916-1-ND	Tri-State 16-Bit Register Transceiver	56-TVSOP	3.60	2.88	2.24
SN74LVCH16952ADGVR	296-12916-2-ND	Tri-State 16-Bit Register Transceiver	56-TVSOP	4080.00/2,000		
SN74LVCH16952ADL	296-8606-5-ND	Tri-State 16-Bit Register Transceiver	56-SSOP	3.60	2.88	2.24
SN74LVCH32244AGKER	296-8614-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	5.20	4.16	3.51
SN74LVCH32244AGKER	296-8614-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3250.00/1,000		
SN74LVCH32244AZKER	296-22018-1-ND	Tri-State 32-Bit Buffer/Driver ***NEW!***	96-LFBGA	3.71	2.97	2.31
SN74LVCH32244AZKER	296-22018-2-ND	Tri-State 32-Bit Buffer/Driver ***NEW!***	96-LFBGA	2104.00/1,000		
SN74LVCH32245AGKER	296-8615-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	5.20	4.16	3.51
SN74LVCH32245AGKER	296-8615-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3250.00/1,000		
SN74LVCH32245AZKER	296-23285-1-ND	Tri-St. 32-Bit Bus Transceiver ***NEW!***	96-LFBGA	3.04	2.43	1.89
SN74LVCH32245AZKER	296-23285-2-ND	Tri-St. 32-Bit Bus Transceiver ***NEW!***	96-LFBGA	1721.00/1,000		
SN74LVCH32373AGKER	296-8616-1-ND	Tri-St. 32-Bit Transparent D-Type Latch	96-LFBGA	5.20	4.16	3.51
SN74LVCH32373AGKER	296-8616-2-ND	Tri-St. 32-Bit Transparent D-Type Latch	96-LFBGA	3250.00/1,000		
SN74LVCH32374AGKER	296-8617-1-ND	Tri-State 32-Bit D-Type Flip-Flop	96-LFBGA	5.20	4.16	3.51
SN74LVCH32374AGKER	296-8617-2-ND	Tri-State 32-Bit D-Type Flip-Flop	96-LFBGA	3250.00/1,000		
SN74LVCH162244ADLR	296-8568-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVCH162244ADLR	296-8568-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	505.00/1,000		
SN74LVCH162244AGR	296-8569-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	.83	.69	.55
SN74LVCH162244AGR	296-8569-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	732.00/2,000		
SN74LVCH162244AVR	296-8570-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.26	1.05	.84
SN74LVCH162244AVR	296-8570-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1118.00/2,000		
SN74LVCH32373AZKER	296-21515-1-ND	Tri-State 32-Bit Transparent D-Type Latch	96-LFBGA	3.71	2.97	2.31
SN74LVCH32373AZKER	296-21515-2-ND	Tri-State 32-Bit Transparent D-Type Latch	96-LFBGA	2104.00/1,000		
SN74LVCH322244AKR	296-15599-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	5.20	4.16	3.51
SN74LVCH322244AKR	296-15599-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3250.00/1,000		

LVCHR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVCHR16245AZQLR	296-23197-1-ND	Tri-St. 16-Bit Bus Transceiver ***NEW!***	56-VFBGA	1.41	1.18	.94
74LVCHR16245AZQLR	296-23197-2-ND	Tri-St. 16-Bit Bus Transceiver ***NEW!***	56-VFBGA	625.00/1,000		
74LVCHR16245AZRDR	296-23198-1-ND	Tri-St. 16-Bit Bus Transceiver ***NEW!***	54-FBGA	1.38	1.10	.83
74LVCHR16245AZRDR	296-23198-2-ND	Tri-St. 16-Bit Bus Transceiver ***NEW!***	54-FBGA	715.00/1,000		
74LVCHR32245AZKER	296-18354-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3.49	2.79	2.17
74LVCHR32245AZKER	296-18354-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	1976.00/1,000		
SN74LVCHR16245AGR	296-9860-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	.83	.69	.55
SN74LVCHR16245AGR	296-9860-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	732.00/2,000		
SN74LVCHR16245AKR	296-14400-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	2.43	1.94	1.46
SN74LVCHR16245AKR	296-14400-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	1261.00/1,000		
SN74LVCHR16245ALR	296-1248-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76
SN74LVCHR16245ALR	296-1248-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	505.00/1,000		
SN74LVCHR16245AVR	296-15600-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.26	1.05	.84
SN74LVCHR16245AVR	296-15600-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1118.00/2,000		
SN74LVCHR32245AKR	296-18825-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	4.05	3.24	2.52
SN74LVCHR32245AKR	296-18825-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2295.00/1,000		
SN74LVCHR162245ADL	296-8618-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76

LVCR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCR2245ADBQR	296-23287-1-ND	Tri-St. Octal Bus Transceiver ***NEW!***	20-QSOP	.80	.60	.45
SN74LVCR2245ADBQR	296-23287-2-ND	Tri-St. Octal Bus Transceiver ***NEW!***	20-QSOP	650.00/2,500		
SN74LVCR2245ADBR	296-8621-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.80	.60	.45
SN74LVCR2245ADBR	296-8621-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	532.00/2,000		
SN74LVCR2245ADGVR	296-8622-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.88	.66	.50
SN74LVCR2245ADGVR	296-8622-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	586.00/2,000		
SN74LVCR2245ADWR	296-8623-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74LVCR2245ADWR	296-8623-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	532.00/2,000		
SN74LVCR2245AGQNR	296-12103-1-ND	Tri-State Octal Bus Transceiver	20-BGA	1.05	.88	.70
SN74LVCR2245AGQNR	296-12103-2-ND	Tri-State Octal Bus Transceiver	20-BGA	466.00/1,000		
SN74LVCR2245ANSR	296-13288-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.80	.60	.45
SN74LVCR2245ANSR	296-13288-2-ND	Tri-State Octal Bus Transceiver	20-SOP	532.00/2,000		
SN74LVCR2245APWR	296-8624-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.80	.60	.45
SN74LVCR2245APWR	296-8624-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	532.00/2,000		
SN74LVCR2245ARGYR	296-13981-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.75	.63	.50
SN74LVCR2245ARGYR	296-13981-2-ND	Tri-State Octal Bus Transceiver	20-QFN	333.00/1,000		
SN74LVCR2245AZQNR	296-23288-1-ND	Tri-St. Octal Bus Transceiver ***NEW!***	20-VFBGA	.92	.69	.52
SN74LVCR2245AZQNR	296-23288-2-ND	Tri-St. Octal Bus Transceiver ***NEW!***	20-VFBGA	306.00/1,000		
SN74LVCR16245ADGGR	296-15601-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.20	1.76	1.32
SN74LVCR16245ADGGR	296-15601-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2288.00/2,000		
SN74LVCR16245ADGVR	296-15602-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2.20	1.76	1.32
SN74LVCR16245ADGVR	296-15602-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2288.00/2,000		
SN74LVCR16245ADLR	296-15603-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2.20	1.76	1.32
SN74LVCR16245ADLR	296-15603-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1144.00/1,000		
SN74LVCR16245AZQLR	296-23286-1-ND	Tri-St. 16-Bit Bus Transceiver ***NEW!***	56-VFBGA	2.43	1.94	1.46
SN74LVCR16245AZQLR	296-23286-2-ND	Tri-St. 16-Bit Bus Transceiver ***NEW!***	56-VFBGA	1261.00/1,000		
SN74LVCR32245AGKER	296-15604-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	4.05	3.24	2.52
SN74LVCR32245AGKER	296-15604-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2295.00/1,000		
SN74LVCR32245AZKER	296-23289-1-ND	Tri-St. 32-Bit Bus Transceiver ***NEW!***	96-LFBGA	2.97	2.38	1.85
SN74LVCR32245AZKER	296-23289-2-ND	Tri-St. 32-Bit Bus Transceiver ***NEW!***	96-LFBGA	1683.00/1,000		
SN74LVCR162245DGGR	296-8619-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.14	.95	.76
SN74LVCR162245DGGR	296-8619-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1010.00/2,000		
SN74LVCR162245DL	296-8620-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76
SN74LVCR162245KR	296-12707-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	2.43	1.94	1.46
SN74LVCR162245KR	296-12707-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	1261.00/1,000		

LVCU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCU04AD	296-9861-5-ND	Hex Inverter	14-SOIC	.72	.54	.41
SN74LVCU04ADR	296-9861-1-ND	Hex Inverter	14-SOIC	.72	.54	.41
SN74LVCU04ADR	296-9861-2-ND	Hex Inverter	14-SOIC	585.00/2,500		
SN74LVCU04ADBR	296-9862-1-ND	Hex Inverter	14-SSOP	.72	.54	.41
SN74LVCU04ADBR	296-9862-2-ND	Hex Inverter	14-SSOP	478.00/2,000		
SN74LVCU04ADGVR	296-9863-1-ND	Hex Inverter	14-TVSOP	.72	.54	.41
SN74LVCU04ADGVR	296-9863-2-ND	Hex Inverter	14-TVSOP	478.00/2,000		
SN74LVCU04APWR	296-9865-1-ND	Hex Inverter	14-TSSOP	.72	.54	.41
SN74LVCU04APWR	296-9865-2-ND	Hex Inverter	14-TSSOP	478.00/2,000		

LVCZ Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCZ240ADBR	296-9870-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	1.05	.88	.70
SN74LVCZ240ADBR	296-9870-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	932.00/2,000		
SN74LVCZ240ADGVR	296-9871-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	1.05	.88	.70
SN74LVCZ240ADGVR	296-9871-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	932.00/2,000		
SN74LVCZ240ADWR	296-9872-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.05	.88	.70
SN74LVCZ240ADWR	296-9872-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	932.00/2,000		
SN74LVCZ240ANSR	296-12993-1-ND	Tri-State Octal Buffer/Driver	20-SOP	1.05	.88	.70
SN74LVCZ240ANSR	296-12993-2-ND	Tri-State Octal Buffer/Driver	20-SOP	932.00/2,000		
SN74LVCZ240APW	296-9873-5-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.05	.88	.70
SN74LVCZ240APWR	296-9873-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.05	.88	.70
SN74LVCZ240APWR	296-9873-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	932.00/2,000		
SN74LVCZ244ADBR	296-9874-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	1.05	.88	.70
SN74LVCZ244ADBR	296-9874-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	932.00/2,000		
SN74LVCZ244ADWR	296-9875-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.05	.88	.70
SN74LVCZ244ADWR	296-9875-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	932.00/2,000		
SN74LVCZ244APW	296-9876-5-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.05	.88	.70
SN74LVCZ244APWR	296-9876-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.05	.88	.70
SN74LVCZ244APWR	296-9876-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	932.00/2,000		
SN74LVCZ245ADBR	296-9877-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.05	.88	.70
SN74LVCZ245ADBR	296-9877-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	932.00/2,000		
SN74LVCZ245ADWR	296-9878-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.05	.88	.70
SN74LVCZ245ADWR	296-9878-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	932.00/2,000		
SN74LVCZ245APW	296-9879-5-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1.05	.88	.70
SN74LVCZ245APWR	296-9879-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1.05	.88	.70
SN74LVCZ245APWR	296-9879-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	932.00/2,000		
SN74LVCZ16240ADGGR	296-9866-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.59	2.07	1.61
SN74LVCZ16240ADGGR	296-9866-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2932.00/2,000		
SN74LVCZ16240ADGVR	296-15605-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.59	2.07	1.61
SN74LVCZ16240ADGVR	296-15605-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2932.00/2,000		
SN74LVCZ16240ADLR	296-9867-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.59	2.07	1.61
SN74LVCZ16240ADLR	296-9867-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1466.00/1,000		
SN74LVCZ16244ADGGR	296-9868-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.38	1.10	.83
SN74LVCZ16244ADGGR	296-9868-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1430.00/2,000		
SN74LVCZ16244ADGVR	296-15606-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.53	1.22	.92
SN74LVCZ16244ADGVR	296-15606-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1586.00/2,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCZ16244ADLR	296-9869-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.00	1.60	1.20
SN74LVCZ16244ADLR	296-9869-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1040.00/1,000		
SN74LVCZ16245ADGGR	296-13289-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.00	1.60	1.20
SN74LVCZ16245ADGGR	296-13289-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2080.00/2,000		
SN74LVCZ16245ADGVR	296-13612-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2.00	1.60	1.20
SN74LVCZ16245ADGVR	296-13612-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2080.00/2,000		
SN74LVCZ16245ADLR	296-13290-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2.00	1.60	1.20
SN74LVCZ16245ADLR	296-13290-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1040.00/1,000		
SN74LVCZ32240AGKER	296-15607-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3.89	3.12	2.43
SN74LVCZ32240AGKER	296-15607-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2206.00/1,000		
SN74LVCZ32244AGKER	296-15608-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3.89	3.12	2.43
SN74LVCZ32244AGKER	296-15608-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2206.00/1,000		
SN74LVCZ32245AGKER	296-15609-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3.89	3.12	2.43
SN74LVCZ32245AGKER	296-15609-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2206.00/1,000		
SN74LVCZ161284AGR	296-12025-1-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1.75	1.40	1.05
SN74LVCZ161284AGR	296-12025-2-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1820.00/2,000		

LVT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVT125D	296-1249-5-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOIC	1.20	1.00	.80
SN74LVT125DBR	296-14919-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SSOP	1.20	1.00	.80
SN74LVT125DBR	296-14919-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SSOP	1064.00/2,000		
SN74LVT125DR	296-1249-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOIC	1.20	1.00	.80
SN74LVT125DR	296-1249-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOIC	1300.00/2,500		
SN74LVT125NSR	296-13291-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOP	1.20	1.00	.80
SN74LVT125NSR	296-13291-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOP	1064.00/2,000		
SN74LVT125PWR	296-1250-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-TSSOP	1.20	1.00	.80
SN74LVT125PWR	296-1250-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-TSSOP	1064.00/2,000		
SN74LVT125QPWREP	296-19508-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-TSSOP	2.70	2.16	1.68
SN74LVT125QPWREP	296-19508-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-TSSOP	3060.00/2,000		
SN74LVT240ADBR	296-14924-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	.81	.68	.54
SN74LVT240ADBR	296-14924-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	718.00/2,000		
SN74LVT240ADW	296-1706-5-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	.81	.68	.54
SN74LVT240ADWR	296-14925-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	.81	.68	.54
SN74LVT240ADWR	296-14925-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	718.00/2,000		
SN74LVT240APWR	296-8647-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	.87	.73	.58
SN74LVT240APWR	296-8647-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	772.00/2,000		
SN74LVT244BDBR	296-8648-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	.92	.69	.52
SN74LVT244BDBR	296-8648-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	612.00/2,000		
SN74LVT244BDW	296-1707-5-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	.86	.65	.49
SN74LVT244BDWR	296-14926-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	.92	.69	.52
SN74LVT244BDWR	296-14926-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	612.00/2,000		
SN74LVT244BGQNR	296-12104-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-BGA	1.47	1.23	.98
SN74LVT244BGQNR	296-12104-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-BGA	652.00/1,000		
SN74LVT244BPWR	296-8649-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	.86	.65	.49
SN74LVT244BPWR	296-8649-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	572.00/2,000		
SN74LVT244BRGYR	296-13982-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-QFN	3.24	2.43	1.76
SN74LVT244BRGYR	296-13982-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-QFN	729.00/1,000		
SN74LVT245BDBR	296-8650-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SSOP	.92	.69	.52
SN74LVT245BDBR	296-8650-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SSOP	612.00/2,000		
SN74LVT245BDW	296-8651-5-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOIC	.92	.69	.52
SN74LVT245BDWR	296-8651-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOIC	.92	.69	.52
SN74LVT245BDWR	296-8651-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOIC	612.00/2,000		
SN74LVT245BGQNR	296-12105-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-BGA	1.47	1.23	.98
SN74LVT245BGQNR	296-12105-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-BGA	652.00/1,000		
SN74LVT245BNSR	296-13294-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOP	.92	.69	.52
SN74LVT245BNSR	296-13294-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOP	612.00/2,000		
SN74LVT245BPWR	296-8652-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-TSSOP	.75	.57	.43
SN74LVT245BPWR	296-8652-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-TSSOP	498.00/2,000		
SN74LVT245BRGYR	296-13983-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-QFN	.81	.68	.54
SN74LVT245BRGYR	296-13983-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-QFN	359.00/1,000		
SN74LVT543PWR	296-13295-1-ND	Tri-State Octal Registered Transceiver	24-TSSOP	2.00	1.60	1.20
SN74LVT543PWR	296-13295-2-ND	Tri-State Octal Registered Transceiver	24-TSSOP	2080.00/2,000		
SN74LVT573DBR	296-8654-1-ND	Octal Transparent Latch	20-SSOP	2.00	1.60	1.20
SN74LVT573DBR	296-8654-2-ND	Octal Transparent Latch	20-SSOP	2080.00/2,000		
SN74LVT573DWR	296-1255-1-ND	3.3V Octal Transparent Latch	20-SOIC	2.00	1.60	1.20
SN74LVT573DWR	296-1255-2-ND	3.3V Octal Transparent Latch	20-SOIC	2080.00/2,000		
SN74LVT574PWR	296-1257-1-ND	Tri-State 3.3V Octal D-Type Flip-Flop	20-TSSOP	2.00	1.60	1.20
SN74LVT574PWR	296-1257-2-ND	Tri-State 3.3V Octal D-Type Flip-Flop	20-TSSOP	2080.00/2,000		
SN74LVT8980ADW	296-13498-5-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOIC	8.92	7.14	6.03
SN74LVT8980ADWR	296-15986-1-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOIC	8.92	7.14	6.03
SN74LVT8980ADWR	296-15986-2-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOIC	11150.00/2,000		
SN74LVT8980AIDWREP	296-22384-1-ND	Embedded Test-Bus Controller (IEEE STD 1149.1) ***NEW!***	24-SOIC	10.85	9.77	8.66
SN74LVT8980AIDWREP	296-22384-2-ND	Embedded Test-Bus Controller (IEEE STD 1149.1) ***NEW!***	24-SOIC	16080.00/2,000		
SN74LVT8986GGV	296-14927-5-ND	3.3V Linking Addressable Scan Port	64-BGA	11.40	9.12	7.70
SN74LVT8986PM	296-14928-5-ND	3.3V Linking Addressable Scan Port	64-LQFP	11.20	8.96	7.56
SN74LVT8996DW	296-8656-5-ND	3.3V, 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-SOIC	9.00	7.20	6.08
SN74LVT8996DWR	296-8656-1-ND	3.3V, 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-SOIC	9.00	7.20	6.08
SN74LVT8996DWR	296-8656-2-ND	3.3V, 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-SOIC	11250.00/2,000		
SN74LVT8996IPWREP	296-22385-1-ND	3.3V, 10-Bit Addressable Scan Port Transcvr (IEEE STD 1149.1) ***NEW!***	24-TSSOP	12.23	11.01	9.77
SN74LVT8996IPWREP	296-22385-2-ND	3.3V, 10-Bit Addressable Scan Port Transcvr (IEEE STD 1149.1) ***NEW!***	24-TSSOP	18130.00/2,000		
SN74LVT8996PW	296-8657-5-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-TSSOP	9.00	7.20	6.08
SN74LVT8996PWR	296-8657-1-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-TSSOP	9.00	7.20	6.08
SN74LVT8996PWR	296-8657-2-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-TSSOP	11250.00/2,000		
SN74LVT16240DGGR	296-8633-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74LVT16240DGGR	296-8633-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1560.00/2,000		
SN74LVT16240DLR	296-8634-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74LVT16240DLR	296-8634-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	780.00/1,000		
SN74LVT16244BDGGR	296-8635-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	.99	.83	.66
SN74LVT16244BDGGR	296-8635-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	878.00/2,000		
SN74LVT16244BDGVR	296-8636-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74LVT16244BDGVR	296-8636-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVSOP	1560.00/2,000		
SN74LVT16244BDLR	296-8637-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74LVT16244BDLR	296-8637-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	780.00/1,000		
SN74LVT16244BGQLR	296-8638-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVFBGA	2.25	1.80	1.35
SN74LVT16244BGQLR	296-8638-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVFBGA	1170.00/1,000		
SN74LVT16244BGRDR	296-16893-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	54-BGA	2.25	1.80	1.35
SN74LVT16244BGRDR	296-16893-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	54-BGA	1170.00/1,000		
SN74LVT16244BZRDR	296-16894-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	54-BGA	1.50	1.20	.90
SN74LVT16244BZRDR	296-16894-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	54-BGA	780.00/1,000		
SN74LVT16245ADGGR	296-1251-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	2.25	1.80	1.40
SN74LVT16245ADGGR	296-1251-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-TSSOP	2550.00/2,000		
SN74LVT16245ADL	296-8639-5-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-SSOP	2.25	1.80	1.40
SN74LVT16245BDGGR	296-8640-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	1.50	1.20	.90
SN74LVT16245BDGGR	296-8640-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	1560.00/2,000		
SN74LVT16245BDGVR	296-8641-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TVSOP	1.65	1.32	.99
SN74LVT16245BDGVR	296-8641-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TVSOP	1716.00/2,000		
SN74LVT16245BDLR	296-8642-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	1.65	1.32	.99
SN74LVT16245BDLR	296-8642-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	780.00/1,000		
SN74LVT16245BGQLR	296-8643-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TVFBGA	2.48	1.98	1.54
SN74LVT16245BGQLR	296-8643-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TVFBGA	1403.00/1,000		
SN74LVT16245BZRDR	296-22019-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	54-BGA	1.75	1.40	1.05
SN74LVT16245BZRDR	296-22019-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	54-BGA	910.00/1,000		
SN74LVT16500DGGR	296-14920-1-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-TSSOP	2.72	2.18	1.70
SN74LVT16500DGGR	296-14920-2-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-TSSOP	3086.00/2,000		
SN74LVT16500DLR	296-8644-1-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-SSOP	2.72	2.18	1.70
SN74LVT16500DLR	296-8644-2-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-SSOP	1543.00/1,000		
SN74LVT16501DGGR	296-1252-1-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-TSSOP	2.72	2.18	1.70
SN74LVT16501DGGR	296-1252-2-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-TSSOP	3086.00/2,000		
SN74LVT16501DLR	296-14921-1-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-SSOP	2.72	2.18	1.70
SN74LVT16501DLR	296-14921-2-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-SSOP	1543.00/1,000		
SN74LVT16543DGGR	296-14922-1-ND	3.3V, 16-Bit Registered Transceiver	56-TSSOP	2.72	2.18	1.70
SN74LVT16543DGGR	296-14922-2-ND	3.3V, 16-Bit Registered Transceiver	56-TSSOP	3086.00/2,000		
SN74LVT16543DLR	296-8645-1-ND	Registered Transceiver	56-SSOP	2.72	2.18	1.70
SN74LVT16543DLR	296-8645-2-ND	Registered Transceiver	56-SSOP	1543.00/1,000		
SN74LVT16646DGGR	296-14923-1-ND	3.3V, 16-Bit Bus Transceiver	56-TSSOP	4.10	3.28	2.55
SN74LVT16646DGGR	296-14923-2-ND	3.3V, 16-Bit Bus Transceiver	56-TSSOP	4642.00/2,000		
SN74LVT16952DGGR	296-1253-1-ND	3.3V, 16-Bit Bus Transceiver	56-TSSOP	2.90	2.33	1.81
SN74LVT16952DGGR	296-1253-2-ND	3.3V, 16-Bit Bus Transceiver	56-TSSOP	3290.00/2,000		
SN74LVT16952DLR	296-1254-1-ND	3.3V, 16-Bit Bus Transceiver	56-SSOP	2.90	2.33	1.81
SN74LVT16952DLR	296-1254-2-ND	3.3V, 16-Bit Bus Transceiver	56-SSOP	1645.00/1,000		
SN74LVT18512DGGR	296-8646-1-ND	3.3V ABT Scan Test Device with 18-Bit Universal Bus Transceiver	64-TSSOP	6.00	4.80	4.05
SN74LVT18512DGGR	296-8646-2-ND	3.3V ABT Scan Test Device with 18-Bit Universal Bus Transceiver	64-TSSOP	7500.00/2,000		
SN74LVT32240GKER	296-9881-1-ND	3.3V ABT 32-Bit Buffer/Driver	96-LFBGA	4.50	3.60	2.80
SN74LVT32240GKER	296-9881-2-ND	3.3V ABT 32-Bit Buffer/Driver	96-LFBGA	2550.00/1,000		
SN74LVT32244GKER	296-8653-1-ND	Tri-St., 3.3V, ABT 32-Bit Buffer/Driver	96-LFBGA	4.50	3.60	2.80
SN74LVT32244GKER	296-8653-2-ND	Tri-St., 3.3V, ABT 32-Bit Buffer/Driver	96-LFBGA	2550.00/1,000		
SN74LVT32244ZKER	296-19880-1-ND	Tri-St., 3.3V, ABT 32-Bit Buffer/Driver	96-LFBGA	2.93	2.34	1.82
SN74LVT32244ZKER	296-19880-2-ND	Tri-St., 3.3V, ABT 32-Bit Buffer/Driver	96-LFBGA	1658.00/1,000		
SN74LVT162240DGGR	296-8625-1-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74LVT162240DGGR	296-8625-2-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-TSSOP	1560.00/2,000		
SN74LVT162240DGVR	296-8626-1-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74LVT162240DGVR	296-8626-2-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-TVSOP	1560.00/2,000		
SN74LVT162240DLR	296-8627-1-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74LVT162240DLR	296-8627-2-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-SSOP	780.00/1,000		
SN74LVT162244ADGGR	296-8628-1-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74LVT162244ADGGR	296-8628-2-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-TSSOP	1560.00/2,000		
SN74LVT162244ADGVR	296-8629-1-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74LVT162244ADGVR	296-8629-2-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-TVSOP	1560.00/2,000		
SN74LVT162244ADLR	296-8630-1-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74LVT162244ADLR	296-8630-2-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-SSOP	780.00/1,000		
SN74LVT162244AGQLR	296-13292-1-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	56-VFBGA	1.50	1.20	.90
SN74LVT162244AGQLR	296-13292-2-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	56-VFBGA	780.00/1,000		
SN74LVT162244AGRDR	296-16891-1-ND	Tri-State 3.3V, ABT 16-Bit Buffer/Driver	54-BGA	2.25	1.80	1.35
SN74LVT162244AGRDR	296-16891-2-ND	Tri-State 3.3V, ABT 16-Bit Buffer/Driver	54-BGA	1170.00/1,000		
SN74LVT162244AZRDR	296-16892-1-ND	Tri-State 3.3V, ABT 16-Bit Buffer/Driver	54-BGA	1.50	1.20	.90
SN74LVT162244AZRDR	296-16892-2-ND	Tri-State 3.3V, ABT 16-Bit Buffer/Driver	54-BGA	780.00/1,000		
SN74LVT162245ADGGR	296-8631-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	1.50	1.20	.90
SN74LVT162245ADGGR	296-8631-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	1560.00/2,000		
SN74LVT162245ADLR	296-8632-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	1.50	1.20	.90
SN74LVT162245ADLR	296-8632-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	780.00/1,000		
SN74LVT162245AGQLR	296-13293-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	56-VFBGA	2.70	2.16	1.68
SN74LVT162245AGQLR	296-13293-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	56-VFBGA	1530.00/1,000		

LVTH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
8V18502AIPMREP	296-22076-1-ND	3.3V ABT Scan Test Device ***NEW!***	64-LQFP	13.79	12.42	11.02
8V18502AIPMREP	296-22076-2-ND	3.3V ABT Scan Test Device ***NEW!***	64-LQFP	10226.00/1,000		
8V182512IDGGREP	296-22075-1-ND	3.3V ABT Scan Test Device ***NEW!***	64-TSSOP	13.79	12.42	11.02
8V182512IDGGREP	296-22075-2-ND	3.3V ABT Scan Test Device ***NEW!***	64-TSSOP	20452.00/2,000		
8V18646AIPMREP	296-22077-1-ND	3.3V ABT Scan Test Device ***NEW!***	64-LQFP	30.86	28.80	26.75
8V18646AIPMREP	296-22077-2-ND	3.3V ABT Scan Test Device ***NEW!***	64-LQFP	25404.00/1,000		
74LVTH162244ZRDR	296-16876-1-ND	Tri-State 3.3V, 16-Bit Buffer/Driver	54-BGA	1.32	1.10	.88
74LVTH162244ZRDR	296-16876-2-ND	Tri-State 3.3V, 16-Bit Buffer/Driver	54-BGA	585.00/1,000		
74LVTH162245GRDR	296-16877-1-ND	Tri-State 3.3V, 16-Bit Bus Transceiver	54-BGA	1.75	1.40	1.05
74LVTH162245GRDR	296-16877-2-ND	Tri-State 3.3V, 16-Bit Bus Transceiver	54-BGA	910.00/1,000		
74LVTH162245ZRDR	296-16878-1-ND	Tri-State 3.3V, 16-Bit Bus Transceiver	54-BGA	1.28	1.02	.77
74LVTH162245ZRDR	296-16878-2-ND	Tri-State 3.3V, 16-Bit Bus Transceiver	54-BGA	663.00/1,000		
74LVTH162374GRDR	296-16879-1-ND	Tri-State 3.3V, 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	1.75	1.40	1.05
74LVTH162374GRDR	296-16879-2-ND	Tri-State 3.3V, 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	910.00/1,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVTH162374ZRDR	296-16880-1-ND	Tri-State 3.3V, 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	1.28	1.02	.77
74LVTH162374ZRDR	296-16880-2-ND	Tri-State 3.3V, 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	663.00/1,000		
CLVTH16240IDGGREP	296-22121-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	48-TSSOP	2.25	1.80	1.35
CLVTH16240IDGGREP	296-22121-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	48-TSSOP	2340.00/2,000		
CLVTH16244AIDGVREP	296-22122-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	48-TVSOP	2.48	1.98	1.49
CLVTH16244AIDGVREP	296-22122-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	48-TVSOP	2574.00/2,000		
CLVTH16244AIGQLREP	296-22123-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	56-VFBGA	2.25	1.80	1.40
CLVTH16244AIZQLREP	296-22124-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	56-VFBGA	3.04	2.43	1.89
CLVTH16244AIZQLREP	296-22124-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	56-VFBGA	1721.00/1,000		
CLVTH16244AMDGGREP	296-22125-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	48-TSSOP	2.70	2.16	1.68
CLVTH16244AMDGGREP	296-22125-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	48-TSSOP	3060.00/2,000		
CLVTH16244AQDGGREP	296-18097-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	2.70	2.16	1.68
CLVTH16244AQDGGREP	296-18097-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	3060.00/2,000		
CLVTH16244AQDLREP	296-22126-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	48-SSOP	2.70	2.16	1.68
CLVTH16244AQDLREP	296-22126-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	48-SSOP	1530.00/1,000		
CLVTH16245AIDGVREP	296-22127-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	48-TVSOP	2.48	1.98	1.49
CLVTH16245AIDGVREP	296-22127-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	48-TVSOP	2574.00/2,000		
CLVTH16245AIGQLREP	296-22128-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	56-VFBGA	2.25	1.80	1.40
CLVTH16245AIGQLREP	296-22128-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	56-VFBGA	1275.00/1,000		
CLVTH16245AIZQLREP	296-22129-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	56-VFBGA	3.04	2.43	1.89
CLVTH16245AIZQLREP	296-22129-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	56-VFBGA	1721.00/1,000		
CLVTH16245AMDLREP	296-22130-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	48-SSOP	5.04	4.04	3.14
CLVTH16245AMDLREP	296-22130-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	48-SSOP	2856.00/1,000		
CLVTH16245AQDGGREP	296-18098-1-ND	Tri-State 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	2.70	2.16	1.68
CLVTH16245AQDGGREP	296-18098-2-ND	Tri-State 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	3060.00/2,000		
CLVTH16245AQDLREP	296-22131-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	48-SSOP	2.70	2.16	1.68
CLVTH16245AQDLREP	296-22131-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	48-SSOP	1530.00/1,000		
CLVTH16373IDGGREP	296-22132-1-ND	Tri-St. 3.3V ABT 16-Bit Transparent D-Type Latch ***NEW!***	48-TSSOP	2.25	1.80	1.35
CLVTH16373IDGGREP	296-22132-2-ND	Tri-St. 3.3V ABT 16-Bit Transparent D-Type Latch ***NEW!***	48-TSSOP	2340.00/2,000		
CLVTH16373IDLREP	296-22133-1-ND	Tri-St. 3.3V ABT 16-Bit Transparent D-Type Latch ***NEW!***	48-SSOP	2.25	1.80	1.35
CLVTH16373IDLREP	296-22133-2-ND	Tri-St. 3.3V ABT 16-Bit Transparent D-Type Latch ***NEW!***	48-SSOP	1170.00/1,000		
CLVTH16373IGQLREP	296-22134-1-ND	Tri-St. 3.3V ABT 16-Bit Transparent D-Type Latch ***NEW!***	56-VFBGA	2.25	1.80	1.40
CLVTH16373IGQLREP	296-22134-2-ND	Tri-St. 3.3V ABT 16-Bit Transparent D-Type Latch ***NEW!***	56-VFBGA	1275.00/1,000		
CLVTH16373IZQLREP	296-22135-1-ND	Tri-St. 3.3V ABT 16-Bit Transparent D-Type Latch ***NEW!***	56-VFBGA	3.04	2.43	1.89
CLVTH16373IZQLREP	296-22135-2-ND	Tri-St. 3.3V ABT 16-Bit Transparent D-Type Latch ***NEW!***	56-VFBGA	1721.00/1,000		
CLVTH16374IDGGREP	296-22136-1-ND	Tri-St. 3.3V ABT 16-Bit Edge-Triggered D-Type F/F ***NEW!***	48-TSSOP	3.04	2.43	1.89
CLVTH16374IDGGREP	296-22136-2-ND	Tri-St. 3.3V ABT 16-Bit Edge-Triggered D-Type F/F ***NEW!***	48-TSSOP	3442.00/2,000		
CLVTH16374IDLREP	296-19494-1-ND	Tri-State 3.3V ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	2.25	1.80	1.35
CLVTH16374IDLREP	296-19494-2-ND	Tri-State 3.3V ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1170.00/1,000		
CLVTH16500IDGGREP	296-22137-1-ND	Tri-St. 3.3V ABT 18-Bit Universal Bus Transceiver ***NEW!***	56-TSSOP	3.04	2.43	1.89
CLVTH16500IDGGREP	296-22137-2-ND	Tri-St. 3.3V ABT 18-Bit Universal Bus Transceiver ***NEW!***	56-TSSOP	3442.00/2,000		
CLVTH16501IDGGREP	296-22138-1-ND	Tri-St. 3.3V ABT 18-Bit Universal Bus Transceiver ***NEW!***	56-TSSOP	3.29	2.63	2.05
CLVTH16501IDGGREP	296-22138-2-ND	Tri-St. 3.3V ABT 18-Bit Universal Bus Transceiver ***NEW!***	56-TSSOP	3724.00/2,000		
CLVTH16543IDGGREP	296-22139-1-ND	Tri-St. 3.3V ABT 16-Bit Registered Transceiver ***NEW!***	56-TSSOP	2.77	2.22	1.73
CLVTH16543IDGGREP	296-22139-2-ND	Tri-St. 3.3V ABT 16-Bit Registered Transceiver ***NEW!***	56-TSSOP	3136.00/2,000		
CLVTH16543MDLREP	296-20635-1-ND	Tri-State 3.3V ABT 16-Bit Registered Transceiver	56-SSOP	6.18	4.95	4.18
CLVTH16543MDLREP	296-20635-2-ND	Tri-State 3.3V ABT 16-Bit Registered Transceiver	56-SSOP	3863.00/1,000		
CLVTH16646IDGGREP	296-22140-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	56-TSSOP	3.53	2.83	2.20
CLVTH16646IDGGREP	296-22140-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	56-TSSOP	4004.00/2,000		
CLVTH16652IDGGREP	296-22141-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver/ Register ***NEW!***	56-TSSOP	5.31	4.25	3.31
CLVTH16652IDGGREP	296-22141-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver/ Register ***NEW!***	56-TSSOP	6018.00/2,000		
CLVTH16835IDGGREP	296-22142-1-ND	Tri-St. 3.3V ABT 18-Bit Universal Bus Driver ***NEW!***	56-TSSOP	5.15	4.13	3.21
CLVTH16835IDGGREP	296-22142-2-ND	Tri-St. 3.3V ABT 18-Bit Universal Bus Driver ***NEW!***	56-TSSOP	5840.00/2,000		
CLVTH16952IDGGREP	296-22143-1-ND	Tri-St. 3.3V ABT 16-Bit Registered Transceiver ***NEW!***	56-TSSOP	3.94	3.15	2.45
CLVTH16952IDGGREP	296-22143-2-ND	Tri-St. 3.3V ABT 16-Bit Registered Transceiver ***NEW!***	56-TSSOP	4462.00/2,000		
CLVTH32244IGKEREP	296-22144-1-ND	Tri-St. 3.3V ABT 32-Bit Buffer/ Driver ***NEW!***	96-LFBGA	5.54	4.44	3.74
CLVTH32244IGKEREP	296-22144-2-ND	Tri-St. 3.3V ABT 32-Bit Buffer/ Driver ***NEW!***	96-LFBGA	3463.00/1,000		
CLVTH32373IGKEREP	296-22145-1-ND	Tri-St. 3.3V ABT 32-Bit Transparent D-Type Latch ***NEW!***	96-LFBGA	5.54	4.44	3.74
CLVTH32373IGKEREP	296-22145-2-ND	Tri-St. 3.3V ABT 32-Bit Transparent D-Type Latch ***NEW!***	96-LFBGA	3463.00/1,000		
CLVTH32374IGKEREP	296-22146-1-ND	Tri-St. 3.3V ABT 32-Bit Edge-Triggered D-Type F/F ***NEW!***	96-LFBGA	5.54	4.44	3.74
CLVTH32374IGKEREP	296-22146-2-ND	Tri-St. 3.3V ABT 32-Bit Edge-Triggered D-Type F/F ***NEW!***	96-LFBGA	3463.00/1,000		
CLVTH162240IDGGREP	296-22116-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	48-TSSOP	2.25	1.80	1.35
CLVTH162240IDGGREP	296-22116-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	48-TSSOP	2340.00/2,000		
CLVTH162244IDGGREP	296-22117-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	48-TSSOP	2.25	1.80	1.35
CLVTH162244IDGGREP	296-22117-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/ Driver ***NEW!***	48-TSSOP	2340.00/2,000		
CLVTH162245IDGGREP	296-22118-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	48-TSSOP	2.25	1.80	1.35
CLVTH162245IDGGREP	296-22118-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	48-TSSOP	2340.00/2,000		
CLVTH162245MDLREP	296-22119-1-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	48-SSOP	5.04	4.04	3.14
CLVTH162245MDLREP	296-22119-2-ND	Tri-St. 3.3V ABT 16-Bit Bus Transceiver ***NEW!***	48-SSOP	2856.00/1,000		
CLVTH162373MDLREP	296-22120-1-ND	Tri-St. 3.3V ABT 16-Bit Transparent D-Type Latch ***NEW!***	48-SSOP	5.04	4.04	3.14
CLVTH162373MDLREP	296-22120-2-ND	Tri-St. 3.3V ABT 16-Bit Transparent D-Type Latch ***NEW!***	48-SSOP	2856.00/1,000		
SN74LVTH125D	296-1708-5-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	.56	.42	.32
SN74LVTH125DR	296-1708-1-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	.44	.36	.27
SN74LVTH125DR	296-1708-2-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	297.50/2,500		
SN74LVTH125DBR	296-8658-1-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	.56	.42	.32
SN74LVTH125DBR	296-8658-2-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	372.00/2,000		
SN74LVTH125DGVR	296-8659-1-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	.62	.47	.35
SN74LVTH125DGVR	296-8659-2-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	410.00/2,000		
SN74LVTH125IPWREP	296-22386-1-ND	Tri-State ABT Quad Bus Buffer ***NEW!***	14-TSSOP	.93	.78	.62
SN74LVTH125IPWREP	296-22386-2-ND	Tri-State ABT Quad Bus Buffer ***NEW!***	14-TSSOP	824.00/2,000		
SN74LVTH125PWR	296-8660-1-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	.44	.36	.27
SN74LVTH125PWR	296-8660-2-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	246.00/2,000		
SN74LVTH125RGYR	296-13984-1-ND	Tri-State ABT Quad Bus Buffer	14-QFN	.72	.54	.41
SN74LVTH125RGYR	296-13984-2-ND	Tri-State ABT Quad Bus Buffer	14-QFN	239.00/1,000		
SN74LVTH126DBR	296-8661-1-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	.56	.42	.32
SN74LVTH126DBR	296-8661-2-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	372.00/2,000		
SN74LVTH126DGVR	296-8662-1-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	.56	.42	.32
SN74LVTH126DGVR	296-8662-2-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	372.00/2,000		
SN74LVTH126DR	296-8663-1-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	.56	.42	.32
SN74LVTH126DR	296-8663-2-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	455.00/2,500		
SN74LVTH126PWR	296-8664-1-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	.62	.47	.35
SN74LVTH126PWR	296-8664-2-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	372.00/2,000		
SN74LVTH240DBR	296-8706-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	.88	.66	.50
SN74LVTH240DBR	296-8706-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	586.00/2,000		
SN74LVTH240DWR	296-8707-1-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74LVTH240DWR	296-8707-2-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	586.00/2,000		
SN74LVTH240GQNR	296-12106-1-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	1.47	1.23	.98
SN74LVTH240GQNR	296-12106-2-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	652.00/1,000		
SN74LVTH240IPWREP	296-22387-1-ND	Tri-St. ABT Octal Buffer/Driver ***NEW!***	20-TSSOP	1.35	1.08	.81
SN74LVTH240IPWREP	296-22387-2-ND	Tri-St. ABT Octal Buffer/Driver ***NEW!***	20-TSSOP	1404.00/2,000		
SN74LVTH240PWR	296-8708-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	.96	.72	.54
SN74LVTH240PWR	296-8708-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	638.00/2,000		
SN74LVTH240RGYR	296-13985-1-ND	Tri-State ABT Octal Buffer/Driver	20-QFN	.78	.65	.52
SN74LVTH240RGYR	296-13985-2-ND	Tri-State ABT Octal Buffer/Driver	20-QFN	346.00/1,000		
SN74LVTH241DBR	296-12742-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	.88	.66	.50
SN74LVTH241DBR	296-12742-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	586.00/2,000		
SN74LVTH241DW	296-1715-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74LVTH241IPWREP	296-22388-1-ND	Tri-St. ABT Octal Buffer/Driver ***NEW!***	20-TSSOP	1.35	1.08	.81
SN74LVTH241IPWREP	296-22388-2-ND	Tri-St. ABT Octal Buffer/Driver ***NEW!***	20-TSSOP	1404.00/2,000		
SN74LVTH241PWR	296-8709-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	.96	.72	.54
SN74LVTH241PWR	296-8709-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	638.00/2,000		
SN74LVTH244ADBR	296-1269-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	.64	.48	.36
SN74LVTH244ADBR	296-1269-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	426.00/2,000		
SN74LVTH244ADW	296-1270-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74LVTH244ADWR	296-1270-1-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74LVTH244ADWR	296-1270-2-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	532.00/2,000		
SN74LVTH244AGQNR	296-12107-1-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	.99	.83	.66
SN74LVTH244AGQNR	296-12107-2-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	439.00/1,000		
SN74LVTH244APWR	296-1271-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	.57	.43	.33
SN74LVTH244APWR	296-1271-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	380.00/2,000		
SN74LVTH244AQDBREP	296-22389-1-ND	Tri-St. ABT Octal Buffer/Driver ***NEW!***	20-SSOP	1.50	1.20	.90
SN74LVTH244AQDBREP	296-22389-2-ND	Tri-St. ABT Octal Buffer/Driver ***NEW!***	20-SSOP	1560.00/2,000		
SN74LVTH244AQPWREP	296-18128-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1.50	1.20	.90
SN74LVTH244AQPWREP	296-18128-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1560.00/2,000		
SN74LVTH244ARGYR	296-13986-1-ND	Tri-State ABT Octal Buffer/Driver	20-QFN	.92	.69	.52
SN74LVTH244ARGYR	296-13986-2-ND	Tri-State ABT Octal Buffer/Driver	20-QFN	306.00/1,000		
SN74LVTH245ADBR	296-8710-1-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	.80	.60	.45
SN74LVTH245ADBR	296-8710-2-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	532.00/2,000		
SN74LVTH245ADW	296-8711-5-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74LVTH245ADWR	296-8711-1-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74LVTH245ADWR	296-8711-2-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	532.00/2,000		
SN74LVTH245AGQNR	296-12108-1-ND	Tri-State ABT Octal Bus Transceiver	20-BGA	1.35	1.13	.90
SN74LVTH245AGQNR	296-12108-2-ND	Tri-State ABT Octal Bus Transceiver	20-BGA	599.00/1,000		
SN74LVTH245AIPWREP	296-22390-1-ND	Tri-St. ABT Octal Bus Transcvr ***NEW!***	20-TSSOP	1.35	1.13	.90
SN74LVTH245AIPWREP	296-22390-2-ND	Tri-St. ABT Octal Bus Transcvr ***NEW!***	20-TSSOP	1198.00/2,000		
SN74LVTH245AMDBREP	296-22391-1-ND	Tri-St. ABT Octal Bus Transcvr ***NEW!***	20-SSOP	2.52	2.02	1.57
SN74LVTH245AMDBREP	296-22391-2-ND	Tri-St. ABT Octal Bus Transcvr ***NEW!***	20-SSOP	2856.00/2,000		
SN74LVTH245APWR	296-1272-1-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	.62	.47	.35
SN74LVTH245APWR	296-1272-2-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	410.00/2,000		
SN74LVTH245ARGYR	296-13987-1-ND	Tri-State ABT Octal Bus Transceiver	20-QFN	.92	.69	.52
SN74LVTH245ARGYR	296-13987-2-ND	Tri-State ABT Octal Bus Transceiver	20-QFN	306.00/1,000		
SN74LVTH273DBR	296-8712-1-ND	ABT Octal D-Type Flip-Flop with Clear	20-SSOP	.80	.60	.45

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVTH273DBR	296-8712-2-ND	ABT Octal D-Type Flip-Flop with Clear	20-SSOP	532.00/2,000		
SN74LVTH273DWR	296-14934-1-ND	ABT Octal D-Type Flip-Flop with Clear	20-SOIC	.80	.60	.45
SN74LVTH273DWR	296-14934-2-ND	ABT Octal D-Type Flip-Flop with Clear	20-SOIC	532.00/2,000		
SN74LVTH273IPWREP	296-22392-1-ND	ABT Octal D-Type F/F w/Clear **NEW!**	20-TSSOP	1.35	1.13	.90
SN74LVTH273IPWREP	296-22392-2-ND	ABT Octal D-Type F/F w/Clear **NEW!**	20-TSSOP	1198.00/2,000		
SN74LVTH273MNSREP	296-22393-1-ND	ABT Octal D-Type F/F w/Clear **NEW!**	20-SOP	2.52	2.02	1.57
SN74LVTH273MNSREP	296-22393-2-ND	ABT Octal D-Type F/F w/Clear **NEW!**	20-SOP	2856.00/2,000		
SN74LVTH273PWR	296-1273-1-ND	ABT Octal D-Type Flip-Flop with Clear	20-TSSOP	.80	.60	.45
SN74LVTH273PWR	296-1273-2-ND	ABT Octal D-Type Flip-Flop with Clear	20-TSSOP	532.00/2,000		
SN74LVTH373DBR	296-8718-1-ND	Tri-State ABT Octal D-Type Latch	20-SSOP	.80	.60	.45
SN74LVTH373DBR	296-8718-2-ND	Tri-State ABT Octal D-Type Latch	20-SSOP	532.00/2,000		
SN74LVTH373DW	296-8719-5-ND	Tri-State ABT Octal D-Type Latch	20-SOIC	.80	.60	.45
SN74LVTH373IPWREP	296-22394-1-ND	Tri-St. ABT Octal D-Type Latch **NEW!**	20-TSSOP	1.35	1.13	.90
SN74LVTH373IPWREP	296-22394-2-ND	Tri-St. ABT Octal D-Type Latch **NEW!**	20-TSSOP	1198.00/2,000		
SN74LVTH373PWR	296-8720-1-ND	Tri-State ABT Octal D-Type Latch	20-TSSOP	.80	.60	.45
SN74LVTH373PWR	296-8720-2-ND	Tri-State ABT Octal D-Type Latch	20-TSSOP	532.00/2,000		
SN74LVTH374DBR	296-8721-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74LVTH374DBR	296-8721-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74LVTH374DW	296-8722-5-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LVTH374DWR	296-8722-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LVTH374DWR	296-8722-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74LVTH374IPWREP	296-22395-1-ND	Tri-St. ABT Octal D-Type F/F **NEW!**	20-TSSOP	1.35	1.13	.90
SN74LVTH374IPWREP	296-22395-2-ND	Tri-St. ABT Octal D-Type F/F **NEW!**	20-TSSOP	1198.00/2,000		
SN74LVTH374PWR	296-8723-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74LVTH374PWR	296-8723-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74LVTH540DBR	296-8724-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1.41	1.18	.94
SN74LVTH540DBR	296-8724-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1250.00/2,000		
SN74LVTH540DW	296-8725-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	1.41	1.18	.94
SN74LVTH540PWR	296-8726-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1.41	1.18	.94
SN74LVTH540PWR	296-8726-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1250.00/2,000		
SN74LVTH541DBR	296-8727-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1.41	1.18	.94
SN74LVTH541DBR	296-8727-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1250.00/2,000		
SN74LVTH541DW	296-8728-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	1.41	1.18	.94
SN74LVTH541PWR	296-8729-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1.41	1.18	.94
SN74LVTH541PWR	296-8729-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1250.00/2,000		
SN74LVTH543DBR	296-8730-1-ND	Tri-St. ABT Octal Transceiver/Register	24-SSOP	1.35	1.13	.90
SN74LVTH543DBR	296-8730-2-ND	Tri-St. ABT Octal Transceiver/Register	24-SSOP	1198.00/2,000		
SN74LVTH543DGVR	296-8731-1-ND	Tri-St. ABT Octal Transceiver/Register	24-TVSOP	1.35	1.13	.90
SN74LVTH543DGVR	296-8731-2-ND	Tri-St. ABT Octal Transceiver/Register	24-TVSOP	1198.00/2,000		
SN74LVTH543DW	296-1717-5-ND	Tri-St. ABT Octal Transceiver/Register	24-SOIC	1.35	1.13	.90
SN74LVTH543IPWREP	296-22396-1-ND	Tri-St. ABT Octal Transceiver/Register **NEW!**	24-TSSOP	2.27	1.82	1.42
SN74LVTH543IPWREP	296-22396-2-ND	Tri-St. ABT Octal Transceiver/Register **NEW!**	24-TSSOP	2576.00/2,000		
SN74LVTH543PWR	296-8732-1-ND	Tri-St. ABT Octal Transceiver/Register	24-TSSOP	1.35	1.13	.90
SN74LVTH543PWR	296-8732-2-ND	Tri-St. ABT Octal Transceiver/Register	24-TSSOP	1198.00/2,000		
SN74LVTH573DBR	296-8733-1-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-SSOP	.80	.60	.45
SN74LVTH573DBR	296-8733-2-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-SSOP	532.00/2,000		
SN74LVTH573DW	296-1718-5-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74LVTH573DWR	296-14935-1-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74LVTH573DWR	296-14935-2-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-SOIC	532.00/2,000		
SN74LVTH573GQNR	296-12109-1-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-BGA	1.47	1.23	.98
SN74LVTH573GQNR	296-12109-2-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-BGA	652.00/1,000		
SN74LVTH573IPWREP	296-22397-1-ND	Tri-State, ABT Octal Transparent D-Type Latch **NEW!**	20-TSSOP	1.35	1.13	.90
SN74LVTH573IPWREP	296-22397-2-ND	Tri-State, ABT Octal Transparent D-Type Latch **NEW!**	20-TSSOP	1198.00/2,000		
SN74LVTH573NSR	296-13300-1-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-SOP	.80	.60	.45
SN74LVTH573NSR	296-13300-2-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-SOP	532.00/2,000		
SN74LVTH573PWR	296-8734-1-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-TSSOP	.80	.60	.45
SN74LVTH573PWR	296-8734-2-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-TSSOP	532.00/2,000		
SN74LVTH573RGYR	296-13988-1-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-QFN	.96	.72	.54
SN74LVTH573RGYR	296-13988-2-ND	Tri-State, ABT Octal Transparent D-Type Latch	20-QFN	319.00/1,000		
SN74LVTH574DBR	296-8735-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74LVTH574DBR	296-8735-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74LVTH574DW	296-1719-5-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LVTH574DWR	296-1719-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LVTH574DWR	296-1719-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74LVTH574GQNR	296-12110-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-BGA	1.47	1.23	.98
SN74LVTH574GQNR	296-12110-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-BGA	652.00/1,000		
SN74LVTH574IPWREP	296-22398-1-ND	Tri-St. ABT Octal D-Type F/F **NEW!**	20-TSSOP	1.35	1.13	.90
SN74LVTH574IPWREP	296-22398-2-ND	Tri-St. ABT Octal D-Type F/F **NEW!**	20-TSSOP	1198.00/2,000		
SN74LVTH574PWR	296-8736-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74LVTH574PWR	296-8736-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74LVTH574RGYR	296-13989-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-QFN	2.76	2.07	1.50
SN74LVTH574RGYR	296-13989-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-QFN	621.00/1,000		
SN74LVTH646DBR	296-8737-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SSOP	1.05	.88	.70
SN74LVTH646DBR	296-8737-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SSOP	932.00/2,000		
SN74LVTH646DGVR	296-12924-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TVSOP	1.05	.88	.70
SN74LVTH646DGVR	296-12924-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TVSOP	932.00/2,000		
SN74LVTH646DW	296-1720-5-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SOIC	1.05	.88	.70
SN74LVTH646IPWREP	296-22399-1-ND	Tri-State ABT Octal Bus Transceiver/Register **NEW!**	24-TSSOP	1.98	1.58	1.19
SN74LVTH646IPWREP	296-22399-2-ND	Tri-State ABT Octal Bus Transceiver/Register **NEW!**	24-TSSOP	2054.00/2,000		
SN74LVTH646PWR	296-8738-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	1.05	.88	.70
SN74LVTH646PWR	296-8738-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	932.00/2,000		
SN74LVTH652DBR	296-8739-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SSOP	1.88	1.50	1.13
SN74LVTH652DBR	296-8739-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SSOP	1950.00/2,000		
SN74LVTH652DGVR	296-12925-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TVSOP	1.88	1.50	1.13
SN74LVTH652DGVR	296-12925-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TVSOP	1950.00/2,000		
SN74LVTH652DW	296-1721-5-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SOIC	1.88	1.50	1.13
SN74LVTH652IPWREP	296-22400-1-ND	Tri-State ABT Octal Bus Transceiver/Register **NEW!**	24-TSSOP	3.78	3.03	2.36
SN74LVTH652IPWREP	296-22400-2-ND	Tri-State ABT Octal Bus Transceiver/Register **NEW!**	24-TSSOP	4284.00/2,000		
SN74LVTH652PWR	296-8740-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	1.88	1.50	1.13
SN74LVTH652PWR	296-8740-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	1950.00/2,000		
SN74LVTH2245DBR	296-8704-1-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	.80	.60	.45
SN74LVTH2245DBR	296-8704-2-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	532.00/2,000		
SN74LVTH2245DGVR	296-12921-1-ND	Tri-State ABT Octal Bus Transceiver	20-TVSOP	.88	.66	.50
SN74LVTH2245DGVR	296-12921-2-ND	Tri-State ABT Octal Bus Transceiver	20-TVSOP	586.00/2,000		
SN74LVTH2245DW	296-1714-5-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74LVTH2245PWR	296-8705-1-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	.80	.60	.45
SN74LVTH2245PWR	296-8705-2-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	532.00/2,000		
SN74LVTH2952DBR	296-8714-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SSOP	1.20	1.00	.80
SN74LVTH2952DBR	296-8714-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SSOP	1064.00/2,000		
SN74LVTH2952DGVR	296-12922-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TVSOP	1.20	1.00	.80
SN74LVTH2952DGVR	296-12922-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TVSOP	1064.00/2,000		
SN74LVTH2952DW	296-1716-5-ND	Tri-State ABT Octal Bus Xcvr/Register	24-SOIC	1.20	1.00	.80
SN74LVTH2952PWR	296-8715-1-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	1.20	1.00	.80
SN74LVTH2952PWR	296-8715-2-ND	Tri-State ABT Octal Bus Xcvr/Register	24-TSSOP	1064.00/2,000		
SN74LVTH16240DGGR	296-8674-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74LVTH16240DGGR	296-8674-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74LVTH16240DL	296-8675-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH16241DGGR	296-8676-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74LVTH16241DGGR	296-8676-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74LVTH16241DL	296-12919-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH16244ADGGR	296-1260-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	.88	.73	.59
SN74LVTH16244ADGGR	296-1260-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	776.00/2,000		
SN74LVTH16244ADGVR	296-8677-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVSOP	1.32	1.10	.88
SN74LVTH16244ADGVR	296-8677-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVSOP	1170.00/2,000		
SN74LVTH16244ADL	296-1261-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH16244ADLR	296-1261-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH16244ADLR	296-1261-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74LVTH16244AGQLR	296-8678-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVFBGA	2.25	1.80	1.35
SN74LVTH16244AGQLR	296-8678-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVFBGA	1170.00/1,000		
SN74LVTH16244AGRDR	296-16895-1-ND	Tri-State ABT 16-Bit Buffer/Driver	54-BGA	2.25	1.80	1.35
SN74LVTH16244AGRDR	296-16895-2-ND	Tri-State ABT 16-Bit Buffer/Driver	54-BGA	1170.00/1,000		
SN74LVTH16244AZRDR	296-16896-1-ND	Tri-State ABT 16-Bit Buffer/Driver	54-BGA	1.50	1.20	.90
SN74LVTH16244AZRDR	296-16896-2-ND	Tri-State ABT 16-Bit Buffer/Driver	54-BGA	780.00/1,000		
SN74LVTH16245ADGGR	296-1262-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TSSOP	1.06	.88	.71
SN74LVTH16245ADGGR	296-1262-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TSSOP	936.00/2,000		
SN74LVTH16245ADGVR	296-8679-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TVSOP	1.32	1.10	.88
SN74LVTH16245ADGVR	296-8679-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TVSOP	1170.00/2,000		
SN74LVTH16245ADL	296-8680-5-ND	Tri-State ABT 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74LVTH16245ADLR	296-8680-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74LVTH16245ADLR	296-8680-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-SSOP	532.00/1,000		
SN74LVTH16245AGQLR	296-8681-1-ND	Tri-State ABT 16-Bit Bus Transceiver	56-VFBGA	1.75	1.40	1.05
SN74LVTH16245AGQLR	296-8681-2-ND	Tri-State ABT 16-Bit Bus Transceiver	56-VFBGA	910.00/1,000		
SN74LVTH16245AGRDR	296-16897-1-ND	Tri-State ABT 16-Bit Bus Transceiver	54-BGA	2.25	1.80	1.35
SN74LVTH16245AGRDR	296-16897-2-ND	Tri-State ABT 16-Bit Bus Transceiver	54-BGA	1170.00/1,000		
SN74LVTH16245AZQLR	296-23290-1-ND	Tri-State ABT 16-Bit Bus Transceiver **NEW!**	96-LFBGA	1.50	1.20	.90
SN74LVTH16245AZQLR	296-23290-2-ND	Tri-State ABT 16-Bit Bus Transceiver **NEW!**	96-LFBGA	780.00/1,000		
SN74LVTH16245AZRDR	296-16898-1-ND	Tri-State ABT 16-Bit Bus Transceiver	54-BGA	1.50	1.20	.90
SN74LVTH16245AZRDR	296-16898-2-ND	Tri-State ABT 16-Bit Bus Transceiver	54-BGA	780.00/1,000		
SN74LVTH162541DGGR	296-8682-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.75	1.40	1.05
SN74LVTH162541DGGR	296-8682-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1820.00/2,000		
SN74LVTH162541DL	296-8683-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.75	1.40	1.05
SN74LVTH16373DGGR	296-8684-1-ND	Tri-State ABT 16-Bit D-Type Latch	48-TSSOP	1.06	.88	.71
SN74LVTH16373DGGR	296-8684-2-ND	Tri-State ABT 16-Bit D-Type Latch	48-TSSOP	936.00/2,000		
SN74LVTH16373DL	296-8685-5-ND	Tri-State ABT 16-Bit D-Type Latch	48-SSOP	1.20	1.00	.80
SN74LVTH16373DLR	296-8685-1-ND	Tri-State ABT 16-Bit D-Type Latch	48-SSOP	1.20	1.00	.80
SN74LVTH16373DLR	296-8685-2-ND	Tri-State ABT 16-Bit D-Type Latch	48-SSOP	532.00/1,000		
SN74LVTH16373GQLR	296-8686-1-ND	Tri-State ABT 16-Bit D-Type Latch	48-TVFBGA	2.25	1.80	1.35
SN74LVTH16373GQLR	296-8686-2-ND	Tri-State ABT 16-Bit D-Type Latch	48-TVFBGA	1170.00/1,000		
SN74LVTH16373GRDR	296-16899-1-ND	Tri-State ABT 16-Bit D-Type Latch	54-BGA	2.25	1.80	1.35
SN74LVTH16373GRDR	296-16899-2-ND	Tri-State ABT 16-Bit D-Type Latch	54-BGA	1170.00/1,000		
SN74LVTH16373ZRDR	296-16900-1-ND	Tri-State ABT 16-Bit D-Type Latch	54-BGA	1.50	1.20	.90
SN74LVTH16373ZRDR	296-16900-2-ND	Tri-State ABT 16-Bit D-Type Latch	54-BGA	780.00/1,000		
SN74LVTH16374DGGR	296-1263-1-ND	Tri-State ABT 16-Bit D-Type F/F	48-TSSOP	1.50	1.20	.90
SN74LVTH16374DGGR	296-1263-2-ND	Tri-State ABT 16-Bit D-Type F/F	48-TSSOP	1560.00/2,000		
SN74LVTH16374DL	296-1264-5-ND	Tri-State ABT 16-Bit D-Type F/F	48-SSOP	1.20	1.00	.80
SN74LVTH16374DLR	296-1264-1-ND	Tri-State ABT 16-Bit D-Type F/F	48-SSOP	1.20	1.00	.80
SN74LVTH16374DLR	296-1264-2-ND	Tri-State ABT 16-Bit D-Type F/F	48-SSOP	532.00/1,000		
SN74LVTH16374GQLR	296-8688-1-ND	Tri-State ABT 16-Bit D-Type F/F	56-VFBGA	2.25	1.80	1.35
SN74LVTH16374GQLR	296-8688-2-ND	Tri-State ABT 16-Bit D-Type F/F	56-VFBGA	1170.00/1,000		
SN74LVTH16374GRDR	296-16901-1-ND	Tri-State ABT 16-Bit D-Type F/F	54-BGA	2.25	1.80	1.35
SN74LVTH16374GRDR	296-16901-2-ND	Tri-State ABT 16-Bit D-Type F/F	54-BGA	1170.00/1,000		
SN74LVTH16374ZRDR	296-16902-1-ND	Tri-State ABT 16-Bit D-Type F/F	54-BGA	1.50	1.20	.90
SN74LVTH16374ZRDR	296-16902-2-ND	Tri-State ABT 16-Bit D-Type F/F	54-BGA	780.00/1,000		
SN74LVTH16500DGGR	296-8689-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-TSSOP	1.50	1.20	.90
SN74LVTH16500DGGR	296-8689-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-TSSOP	1560.00/2,000		
SN74LVTH16500DL	296-8690-5-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-SSOP	2.00	1.60	1.20
SN74LVTH16500GQLR	296-12476-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-VFBGA	3.38	2.70	2.10
SN74LVTH16500GQLR	296-12476-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-VFBGA	1913.00/1,000		
SN74LVTH16501DGGR	296-8691-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-TSSOP	1.63	1.30	.98
SN74LVTH16501DGGR	296-8691-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-TSSOP	1690.00/2,000		
SN74LVTH16501DLR	296-14930-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-SSOP	1.75	1.40	1.05
SN74LVTH16501DLR	296-14930-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr	56-SSOP	910.00/1,000		
SN74LVTH16541DGGR	296-8693-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.75	1.40	1.05
SN74LVTH16541DGGR	296-8693-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1820.00/2,000		
SN74LVTH16541DL	296-12920-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.75	1.40	1.05
SN74LVTH16543DGGR	296-1265-1-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	1.38	1.10	.83
SN74LVTH16543DGGR	296-1265-2-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	1430.00/2,000		
SN74LVTH16543DL	296-1710-5-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	1.38	1.10	.83
SN74LVTH16543DLR	296-1710-1-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	1.38	1.10	.83
SN74LVTH16543DLR	296-1710-2-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	715.00/1,000		
SN74LVTH16646DGGR	296-1266-1-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	1.75	1.40	1.05
SN74LVTH16646DGGR	296-1266-2-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP	1820.00/2,000		
SN74LVTH16646DL	296-1711-5-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	1.75	1.40	1.05
SN74LVTH16652DGGR	296-1267-1-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	2.36	1.89	1.47
SN74LVTH16652DGGR	296-1267-2-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	2678.00/2,000		
SN74LVTH16652DL	296-1712-5-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	2.36	1.89	1.47

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVTH16835DGGR	296-8694-1-ND	Tri-State ABT 18-Bit Univ. Bus Driver	56-TSSOP	2.30	1.84	1.43
SN74LVTH16835DGGR	296-8694-2-ND	Tri-State ABT 18-Bit Univ. Bus Driver	56-TSSOP	2602.00/2,000		
SN74LVTH16835DL	296-8695-5-ND	Tri-State ABT 18-Bit Univ. Bus Driver	56-SSOP	2.30	1.84	1.43
SN74LVTH16952DGGR	296-1268-1-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	1.95	1.56	1.17
SN74LVTH16952DGGR	296-1268-2-ND	Tri-State ABT 16-Bit Xcvr/Register	56-TSSOP	2028.00/2,000		
SN74LVTH16952DL	296-1713-5-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	1.95	1.56	1.17
SN74LVTH16952DLR	296-14931-1-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	1.95	1.56	1.17
SN74LVTH16952DLR	296-14931-2-ND	Tri-State ABT 16-Bit Xcvr/Register	56-SSOP	1014.00/1,000		
SN74LVTH18502APM	296-8699-ND	ABT Scan Test Device with 18-Bit Transceiver	64-LQFP	6.60	5.28	4.46
SN74LVTH18502APMR	296-14932-1-ND	ABT Scan Test Device with 18-Bit Transceiver	64-LQFP	6.60	5.28	4.46
SN74LVTH18502APMR	296-14932-2-ND	ABT Scan Test Device with 18-Bit Transceiver	64-LQFP	4125.00/1,000		
SN74LVTH18504APM	296-8700-ND	ABT Scan Test Device with 20-Bit Transceiver	64-LQFP	6.60	5.28	4.46
SN74LVTH18504APMR	296-14933-1-ND	ABT Scan Test Device with 20-Bit Transceiver	64-LQFP	6.60	5.28	4.46
SN74LVTH18504APMR	296-14933-2-ND	ABT Scan Test Device with 20-Bit Transceiver	64-LQFP	4125.00/1,000		
SN74LVTH18511DGGR	296-17079-1-ND	3.3V ABT 18-Bit Universal Bus Transceiver	64-TSSOP	6.60	5.28	4.46
SN74LVTH18511DGGR	296-17079-2-ND	3.3V ABT 18-Bit Universal Bus Transceiver	64-TSSOP	8250.00/2,000		
SN74LVTH18512DGGR	296-8701-1-ND	ABT Scan Test Device with 18-Bit Transceiver	64-TSSOP	6.60	5.28	4.46
SN74LVTH18512DGGR	296-8701-2-ND	ABT Scan Test Device with 18-Bit Transceiver	64-TSSOP	8250.00/2,000		
SN74LVTH18514DGGR	296-8702-1-ND	ABT Scan Test Device with 20-Bit Transceiver	64-TSSOP	6.60	5.28	4.46
SN74LVTH18514DGGR	296-8702-2-ND	ABT Scan Test Device with 20-Bit Transceiver	64-TSSOP	8250.00/2,000		
SN74LVTH18646APM	296-8703-ND	ABT Scan Test Device with 18-Bit Transceiver and Registers	64-LQFP	13.66	12.30	10.91
SN74LVTH18652APM	296-12994-5-ND	3.3V ABT Scan Test Device with 18-Bit Transceiver and Register	64-LQFP	13.66	12.30	10.91
SN74LVTH32244GKER	296-8716-1-ND	Tri-State ABT 32-Bit Buffer/Driver	96-LFBGA	3.83	3.06	2.38
SN74LVTH32244GKER	296-8716-2-ND	Tri-State ABT 32-Bit Buffer/Driver	96-LFBGA	2168.00/1,000		
SN74LVTH32245GKER	296-9882-1-ND	Tri-State ABT 32-Bit Bus Transceiver	96-LFBGA	3.83	3.06	2.38
SN74LVTH32245GKER	296-9882-2-ND	Tri-State ABT 32-Bit Bus Transceiver	96-LFBGA	2168.00/1,000		
SN74LVTH32245ZKER	296-23291-1-ND	Tri-State ABT 32-Bit Bus Transceiver ***NEW!***	96-LFBGA	2.59	2.07	1.61
SN74LVTH32245ZKER	296-23291-2-ND	Tri-State ABT 32-Bit Bus Transceiver ***NEW!***	96-LFBGA	1466.00/1,000		
SN74LVTH32373GKER	296-8717-1-ND	Tri-State ABT 32-Bit D-Type Latch	96-LFBGA	3.83	3.06	2.38
SN74LVTH32373GKER	296-8717-2-ND	Tri-State ABT 32-Bit D-Type Latch	96-LFBGA	2168.00/1,000		
SN74LVTH32374GKER	296-9883-1-ND	Tri-State ABT 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	3.83	3.06	2.38
SN74LVTH32374GKER	296-9883-2-ND	Tri-State ABT 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	2168.00/1,000		
SN74LVTH32374ZKER	296-23292-1-ND	Tri-State ABT 32-Bit Edge-Triggered D-Type Flip-Flop ***NEW!***	96-LFBGA	2.48	1.98	1.54
SN74LVTH32374ZKER	296-23292-2-ND	Tri-State ABT 32-Bit Edge-Triggered D-Type Flip-Flop ***NEW!***	96-LFBGA	1403.00/1,000		
SN74LVTH162240DGGR	296-8665-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74LVTH162240DGGR	296-8665-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74LVTH162240DL	296-8666-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH162241DGGR	296-8667-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74LVTH162241DGGR	296-8667-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74LVTH162241DL	296-12917-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH162244DGGR	296-1258-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74LVTH162244DGGR	296-1258-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74LVTH162244DL	296-1259-5-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH162244DLR	296-1259-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH162244DLR	296-1259-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74LVTH162244KR	296-13296-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	56-VFBGA	2.00	1.60	1.20
SN74LVTH162244KR	296-13296-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	56-VFBGA	1040.00/1,000		
SN74LVTH162245DGGR	296-8669-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-TSSOP	1.09	.91	.73
SN74LVTH162245DGGR	296-8669-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-TSSOP	966.00/2,000		
SN74LVTH162245DL	296-8670-5-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-SSOP	1.20	1.00	.80
SN74LVTH162245DLR	296-8670-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-SSOP	1.20	1.00	.80
SN74LVTH162245DLR	296-8670-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-SSOP	532.00/1,000		
SN74LVTH162245KR	296-13297-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	56-VFBGA	2.00	1.60	1.20
SN74LVTH162245KR	296-13297-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	56-VFBGA	1040.00/1,000		
SN74LVTH162373DGGR	296-8671-1-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	48-TSSOP	1.20	1.00	.80
SN74LVTH162373DGGR	296-8671-2-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	48-TSSOP	1064.00/2,000		
SN74LVTH162373DL	296-12918-5-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	48-SSOP	1.20	1.00	.80
SN74LVTH162373KR	296-12665-1-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	56-VFBGA	2.00	1.60	1.20
SN74LVTH162373KR	296-12665-2-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	56-VFBGA	1040.00/1,000		
SN74LVTH162374DGGR	296-8672-1-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	.89	.75	.60
SN74LVTH162374DGGR	296-8672-2-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	790.00/2,000		
SN74LVTH162374DLR	296-14929-1-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1.20	1.00	.80
SN74LVTH162374DLR	296-14929-2-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	532.00/1,000		
SN74LVTH162374KR	296-13298-1-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	2.00	1.60	1.20
SN74LVTH162374KR	296-13298-2-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	1040.00/1,000		
SN74LVTH182502APM	296-8696-ND	ABT Scan Test Device with 18-Bit Xcvr	64-LQFP	6.60	5.28	4.46
SN74LVTH182504APM	296-8697-ND	ABT Scan Test Device with 20-Bit Xcvr	64-LQFP	6.60	5.28	4.46
SN74LVTH182512DGGR	296-8698-1-ND	ABT Scan Test Device with 18-Bit Xcvr	64-TSSOP	6.60	5.28	4.46
SN74LVTH182512DGGR	296-8698-2-ND	ABT Scan Test Device with 18-Bit Xcvr	64-TSSOP	8250.00/2,000		
SN74LVTH182652APM	296-14323-ND	3.3V ABT Scan Test Device	64-LQFP	13.66	12.30	10.91
SN74LVTH322374KR	296-13299-1-ND	Tri-State, 3.3V, ABT, 32-Bit, Edge-Triggered D-Type Flip-Flop	96-LFBGA	3.83	3.06	2.38
SN74LVTH322374KR	296-13299-2-ND	Tri-State, 3.3V, ABT, 32-Bit, Edge-Triggered D-Type Flip-Flop	96-LFBGA	2168.00/1,000		

LVTZ Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVTZ244DBR	296-12927-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	.80	.60	.45
SN74LVTZ244DBR	296-12927-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	532.00/2,000		
SN74LVTZ244DW	296-11806-5-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74LVTZ244PWR	296-12928-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	.80	.60	.45
SN74LVTZ244PWR	296-12928-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	532.00/2,000		

LVU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVU04AD	296-1722-5-ND	Unbuffered Hex Inverter	14-SOIC	.60	.45	.34
SN74LVU04ADBR	296-9884-1-ND	Unbuffered Hex Inverter	14-SSOP	.60	.45	.34
SN74LVU04ADBR	296-9884-2-ND	Unbuffered Hex Inverter	14-SSOP	400.00/2,000		
SN74LVU04ADGVR	296-12929-1-ND	Unbuffered Hex Inverter	14-TVSOP	.60	.45	.34
SN74LVU04ADGVR	296-12929-2-ND	Unbuffered Hex Inverter	14-TVSOP	400.00/2,000		
SN74LVU04APWR	296-9885-1-ND	Unbuffered Hex Inverter	14-TSSOP	.60	.45	.34
SN74LVU04APWR	296-9885-2-ND	Unbuffered Hex Inverter	14-TSSOP	400.00/2,000		
SN74LVU04ARGYR	296-13990-1-ND	Unbuffered Hex Inverter	14-QFN	.48	.36	.27
SN74LVU04ARGYR	296-13990-2-ND	Unbuffered Hex Inverter	14-QFN	160.00/1,000		

74S Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74S00N	296-1723-5-ND	Quad 2-Input NAND Gate	14-Dip	.93	.78	.62
SN74S04N	296-1724-5-ND	Hex Inverter	14-Dip	.93	.78	.62
SN74S08N	296-1725-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.93	.78	.62
SN74S10N	296-14937-5-ND	Triple 3-Input Positive NAND Gate	14-Dip	1.02	.85	.68
SN74S32N	296-1731-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.87	.73	.58
SN74S37NSR	296-13301-1-ND	Quad 2-Input Positive NAND Buffer	14-SOP	1.45	1.16	.87
SN74S37NSR	296-13301-2-ND	Quad 2-Input Positive NAND Buffer	14-SOP	1508.00/2,000		
SN74S38D	296-1732-5-ND	Quad 2-Input NAND with OC	14-SOIC	1.45	1.16	.87
SN74S38DR	296-14939-1-ND	Quad 2-Input NAND with OC	14-SOIC	1.45	1.16	.87
SN74S38DR	296-14939-2-ND	Quad 2-Input NAND with OC	14-SOIC	1855.00/2,500		
SN74S38N	296-1733-5-ND	Quad 2-Input NAND with OC	14-Dip	1.45	1.16	.87
SN74S74N	296-1734-5-ND	Dual D-Type Flip-Flop	14-Dip	1.08	.90	.72
SN74S138AN	296-1728-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	1.44	1.20	.96
SN74S240N	296-1729-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	2.25	1.80	1.40
SN74S244N	296-1730-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	2.25	1.80	1.40
SN74S280N	296-14938-5-ND	9-Bit Odd/Even Parity Generator/Checker	14-Dip	2.25	1.80	1.40
SN74S1051DR	296-14193-1-ND	12-Bit, Schottky Termination Array	16-SOIC	2.34	1.88	1.46
SN74S1051DR	296-14193-2-ND	12-Bit, Schottky Termination Array	16-SOIC	3275.00/2,500		
SN74S1053DW	296-1726-5-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-SOIC	2.34	1.88	1.46
SN74S1053DWR	296-14936-1-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-SOIC	2.34	1.88	1.46
SN74S1053DWR	296-14936-2-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-SOIC	2652.00/2,000		
SN74S1053PWR	296-13703-1-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-TSSOP	2.34	1.88	1.46
SN74S1053PWR	296-13703-2-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-TSSOP	2652.00/2,000		
SN74S1053N	296-1727-5-ND	16-Bit Termination Array	20-Dip	2.34	1.88	1.46

NEW! SSQE Family NEW!

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74SSQE32882ZALR	296-23350-1-ND	28-Bit to 56-Bit Registered Buffer/ Clock Driver	176-BGA	9.35	8.42	7.47
SN74SSQE32882ZALR	296-23350-2-ND	28-Bit to 56-Bit Registered Buffer/ Clock Driver	176-BGA	6928.00/1,000		

SSTL Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74SSTL16837ADGGR	296-9886-1-ND	Tri-State 20-Bit Universal Bus Driver	64-TSSOP	7.50	6.00	5.07
SN74SSTL16837ADGGR	296-9886-2-ND	Tri-State 20-Bit Universal Bus Driver	64-TSSOP	9376.00/2,000		
SN74SSTL16847DGGR	296-1274-1-ND	20-Bit SSTL_3 Buffer	64-TSSOP	7.50	6.00	5.07
SN74SSTL16847DGGR	296-1274-2-ND	20-Bit SSTL_3 Buffer	64-TSSOP	9376.00/2,000		
SN74SSTL16857DGGR	296-9887-1-ND	14-Bit Registered Buffer	48-TSSOP	7.50	6.00	5.07
SN74SSTL16857DGGR	296-9887-2-ND	14-Bit Registered Buffer	48-TSSOP	9376.00/2,000		

SSTU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74SSTUB32864AZKER	296-21295-1-ND	25-Bit Configurable Registered Buffer	96-LFBGA	6.38	5.11	4.31
74SSTUB32864AZKER	296-21295-2-ND	25-Bit Configurable Registered Buffer	96-LFBGA	3988.00/1,000		
74SSTUB32866AZKER	296-21296-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	6.38	5.11	4.31
74SSTUB32866AZKER	296-21296-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	3988.00/1,000		
74SSTUB32868AZRHR	296-22020-1-ND	28-Bit to 56-Bit Registered Buffer with Address-Parity Test	176-BGA	8.61	7.76	6.88
74SSTUB32868AZRHR	296-22020-2-ND	28-Bit to 56-Bit Registered Buffer with Address-Parity Test	176-BGA	6385.00/1,000		
74SSTUB32868ZRHR	296-22074-1-ND	28-Bit to 56-Bit Registered Buffer with Address-Parity Test ***NEW!***	176-BGA	8.61	7.76	6.88
74SSTUB32868ZRHR	296-22074-2-ND	28-Bit to 56-Bit Registered Buffer with Address-Parity Test ***NEW!***	176-BGA	6385.00/1,000		
SN74SSTU32864CZKER	296-17801-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	8.61	7.76	6.88
SN74SSTU32864CZKER	296-17801-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	6385.00/1,000		
SN74SSTU32864DGKER	296-17964-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	8.61	7.76	6.88
SN74SSTU32864DGKER	296-17964-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	6385.00/1,000		
SN74SSTU32864DZKER	296-17860-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	8.61	7.76	6.88
SN74SSTU32864DZKER	296-17860-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	6385.00/1,000		
SN74SSTU32864EZKER	296-18298-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	8.61	7.76	6.88
SN74SSTU32864EZKER	296-18298-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	6385.00/1,000		
SN74SSTU32864GKER	296-15611-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	8.61	7.76	6.88
SN74SSTU32864GKER	296-15611-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	6385.00/1,000		
SN74SSTU32864ZKER	296-17793-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	8.61	7.76	6.88
SN74SSTU32864ZKER	296-17793-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	6385.00/1,000		
SN74SSTU32866AZKER	296-18233-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	9.93	8.94	7.93
SN74SSTU32866AZKER	296-18233-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	7361.00/1,000		

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TEXAS INSTRUMENTS Digi-Reel® DIGITAL LOGIC *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74SSTU32866GKER	296-18826-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	9.93	8.94	7.93
SN74SSTU32866GKER	296-18826-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	7361.00/1,000		
SN74SSTU32866ZKER	296-18827-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	9.93	8.94	7.93
SN74SSTU32866ZKER	296-18827-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	7361.00/1,000		
SN74SSTUB32864ZKER	296-21315-1-ND	25-Bit Configurable Registered Buffer	96-LFBGA	6.38	5.11	4.31
SN74SSTUB32864ZKER	296-21315-2-ND	25-Bit Configurable Registered Buffer	96-LFBGA	3988.00/1,000		
SN74SSTUB32866ZKER	296-21316-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	6.38	5.11	4.31
SN74SSTUB32866ZKER	296-21316-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	3988.00/1,000		
SN74SSTUB32866ZWLR	296-22579-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test ***NEW!***	96-BGA	6.38	5.11	4.31
SN74SSTUB32866ZWLR	296-22579-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test ***NEW!***	96-BGA	3988.00/1,000		

SSTV Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74SSTVF32852ZKFR	296-18355-1-ND	24-Bit to 48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	4.95	3.96	3.08
74SSTVF32852ZKFR	296-18355-2-ND	24-Bit to 48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	2805.00/1,000		
CSSTV32867SGKEREP	296-22147-1-ND	26-Bit Registered Buffer with SSTL_2 Inputs and LVCMOS Output ***NEW!***	96-LFBGA	12.84	11.57	10.26
CSSTV32867SGKEREP	296-22147-2-ND	26-Bit Registered Buffer with SSTL_2 Inputs and LVCMOS Output ***NEW!***	96-LFBGA	9522.00/1,000		
SN74SSTV16857DGGR	296-13302-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	3.69	2.96	2.30
SN74SSTV16857DGGR	296-13302-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	4182.00/2,000		
SN74SSTV16857DGVR	296-12039-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	3.69	2.96	2.30
SN74SSTV16857DGVR	296-12039-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	4182.00/2,000		
SN74SSTV16859DGGR	296-13303-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	4.82	3.86	3.00
SN74SSTV16859DGGR	296-13303-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	5458.00/2,000		
SN74SSTV16859RGQ8	296-18828-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	4.82	3.86	3.00
SN74SSTV16859RGQ8	296-18828-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	5458.00/2,000		
SN74SSTV16859RGQR	296-14377-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	4.82	3.86	3.00
SN74SSTV16859RGQR	296-14377-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	5458.00/2,000		
SN74SSTV32852GKFR	296-13304-1-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	8.56	6.85	5.78
SN74SSTV32852GKFR	296-13304-2-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	5350.00/1,000		
SN74SSTV32852ZKFR	296-18829-1-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	8.56	6.85	5.78
SN74SSTV32852ZKFR	296-18829-2-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	2805.00/1,000		
SN74SSTV32867GKER	296-13305-1-ND	26-Bit Registered Buffer with SSTL_2 Inputs and LVCMOS Output	96-LFBGA	8.96	8.07	7.16
SN74SSTV32867GKER	296-13305-2-ND	26-Bit Registered Buffer with SSTL_2 Inputs and LVCMOS Output	96-LFBGA	6644.00/1,000		
SN74SSTV32877GKER	296-13306-1-ND	26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	96-LFBGA	8.96	8.07	7.16
SN74SSTV32877GKER	296-13306-2-ND	26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	96-LFBGA	6644.00/1,000		
SN74SSTVF16857GR	296-13636-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	3.69	2.96	2.30
SN74SSTVF16857GR	296-13636-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	4182.00/2,000		
SN74SSTVF16857VR	296-13637-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	3.69	2.96	2.30
SN74SSTVF16857VR	296-13637-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	4182.00/2,000		
SN74SSTVF16859G4R	296-18719-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	4.82	3.86	3.00
SN74SSTVF16859G4R	296-18719-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	6740.00/2,500		
SN74SSTVF16859GR	296-18830-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	4.82	3.86	3.00
SN74SSTVF16859GR	296-18830-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	5458.00/2,000		
SN74SSTVF16859S8	296-18831-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	4.82	3.86	3.00
SN74SSTVF16859S8	296-18831-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	5458.00/2,000		
SN74SSTVF16859SR	296-18832-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	4.82	3.86	3.00
SN74SSTVF16859SR	296-18832-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	5458.00/2,000		
SN74SSTVF32852KR	296-15612-1-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	8.56	6.85	5.78
SN74SSTVF32852KR	296-15612-2-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	5350.00/1,000		

Translating Bus Switches

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TXB0108PWR	296-21527-1-ND	8-Bit Bidirectional Voltage Level Translator	20-TSSOP	1.88	1.50	1.13
TXB0108PWR	296-21527-2-ND	8-Bit Bidirectional Voltage Level Translator	20-TSSOP	1950.00/2,000		

TTL Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN10KHT5541DW	296-9688-5-ND	Tri-State ECL to TTL Translator	24-SOIC	7.20	5.76	4.86
SN10KHT5541NT	296-9689-5-ND	Tri-State ECL to TTL Translator	24-Dip	7.20	5.76	4.86
SN7400N	296-14641-5-ND	Quad 2-Input NAND Gate	14-Dip	1.17	.98	.78
SN7404N	296-14642-5-ND	Hex Inverter	14-Dip	1.30	1.04	.78
SN7406D	296-1017-5-ND	Hex Inverter Buffer/Driver w/HV Output	14-SOIC	.96	.80	.64

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN7406DR	296-1017-1-ND	Hex Inverter Buffer/Driver w/HV Output	14-SOIC	.96	.80	.64
SN7406DR	296-1017-2-ND	Hex Inverter Buffer/Driver w/HV Output	14-SOIC	1040.00/2,500		
SN7406N	296-1435-5-ND	Hex Inverter Buffer/Driver w/HV Output	14-Dip	.96	.80	.64
SN7407D	296-1018-5-ND	Hex Buffer/Driver with OC HV Output	14-SOIC	.96	.80	.64
SN7407N	296-1436-5-ND	Hex Buffer/Driver with OC HV Output	14-Dip	.96	.80	.64
SN7414NSR	296-13127-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	1.30	1.04	.78
SN7414NSR	296-13127-2-ND	Hex Schmitt-Trigger Inverter	14-SOP	1352.00/2,000		
SN7416N	296-14646-5-ND	Hex Inverter with OC HV Output	14-Dip	1.44	1.20	.96
SN7417N	296-14647-5-ND	Hex Buffer with OC HV Output	14-Dip	1.38	1.15	.92
SN7438N	296-14648-5-ND	Quad 2-Input NAND Buffer	14-Dip	1.29	1.08	.86
SN74128NSR	296-13126-1-ND	2-Input NOR Line Driver	14-SOP	1.63	1.30	.98
SN74128NSR	296-13126-2-ND	2-Input NOR Line Driver	14-SOP	1690.00/2,000		
SN74154N	296-8757-5-ND	4-Line to 16-Line Decoder/Demux	24-Dip	2.30	1.84	1.43

NEW! TVC Family NEW!

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74TVC3010DWR	296-23293-1-ND	10-Bit Voltage Clamp	24-SOIC	1.38	1.10	.83
SN74TVC3010DWR	296-23293-2-ND	10-Bit Voltage Clamp	24-SOIC	1430.00/2,000		

VMEH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CVMEH22501AIDGGREP	296-22148-1-ND	Tri-State 8-Bit Universal Bus Transceiver/ Two 1-Bit Bus Transceivers ***NEW!***	48-TSSOP	5.16	4.13	3.49
CVMEH22501AIDGGREP	296-22148-2-ND	Tri-State 8-Bit Universal Bus Transceiver/ Two 1-Bit Bus Transceivers ***NEW!***	48-TSSOP	6450.00/2,000		
CVMEH22501AIDGVREP	296-21330-1-ND	Tri-State, 8-Bit, Universal Bus Transceiver	48-TVSOP	5.16	4.13	3.49
CVMEH22501AIDGVREP	296-21330-2-ND	Tri-State, 8-Bit, Universal Bus Transceiver	48-TVSOP	6450.00/2,000		
SN74VMEH22501ADGGR	296-17565-1-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	48-TSSOP	4.86	3.89	3.03
SN74VMEH22501ADGGR	296-17565-2-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	48-TSSOP	5508.00/2,000		
SN74VMEH22501ADGVR	296-17566-1-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	48-TVSOP	4.86	3.89	3.03
SN74VMEH22501ADGVR	296-17566-2-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	48-TVSOP	5508.00/2,000		
SN74VMEH22501AGQLR	296-17567-1-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	56-VFBGA	6.40	5.12	4.32
SN74VMEH22501AGQLR	296-17567-2-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	56-VFBGA	4000.00/1,000		
SN74VMEH22501AZQLR	296-23294-1-ND	Tri-State 8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers ***NEW!***	56-VFBGA	5.40	4.32	3.36
SN74VMEH22501AZQLR	296-23294-2-ND	Tri-State 8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers ***NEW!***	56-VFBGA	3060.00/1,000		
SN74VMEH22501DGGR	296-13309-1-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	48-TSSOP	4.64	3.71	2.89
SN74VMEH22501DGGR	296-13309-2-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	48-TSSOP	5254.00/2,000		
SN74VMEH22501DGVR	296-13310-1-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	48-TVSOP	4.64	3.71	2.89
SN74VMEH22501DGVR	296-13310-2-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	48-TVSOP	5254.00/2,000		
SN74VMEH22501GQLR	296-13311-1-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	56-VFBGA	7.00	5.60	4.73
SN74VMEH22501GQLR	296-13311-2-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers	56-VFBGA	4375.00/1,000		
SN74VMEH22501ZQLR	296-23112-1-ND	Tri-St., 8-Bit Univ. Bus Transceiver and Two 1-Bit Bus Transceivers ***NEW!***	56-VFBGA	5.20	4.16	3.24
SN74VMEH22501ZQLR	296-23112-2-ND	Tri-St., 8-Bit Univ. Bus Transceiver and Two 1-Bit Bus Transceivers ***NEW!***	56-VFBGA	2945.00/1,000		

TEXAS INSTRUMENTS DIGITAL RADIO

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DIT4096IPW	DIT4096IPW-ND	5V, 96kHz Digital Audio Transmitter	28-TSSOP	3.49	2.79	2.17
DIT4192IPW	DIT4192IPW-ND	5V, 192kHz Digital Audio Transmitter	28-TSSOP	4.61	3.69	2.87
GC2011A-PB	296-12259-ND	Digital Filter	160-BGA	150.00	—	—
GC2011A-PQ	296-12260-ND	Digital Filter	160-QFP	150.00	—	—
GC4016-PB	296-12264-ND	Multi-Standard Quad DDC Chip	160-PBGA	60.00	—	—
GC4016-PBZ	296-18597-ND	Multi-Standard Quad DDC Chip	160-PBGA	60.00	56.00	52.00
GC4116-PB	296-12266-ND	Digital Quad Upconverter	160-PBGA	72.00	—	—
GC4116-PBZ	296-20847-ND	Multi-Standard Quad DUC Chip	160-BGA	72.00	67.20	62.40
GC5016-PB	296-15780-ND	Wideband, Quad Digital Down/Up Converter	252-PBGA	43.13	—	—
GC5016-PBZ	296-17306-ND	Wideband, Quad Digital Down/Up Converter	252-PBGA	43.13	—	—
GC5018IZDL	296-19311-ND	8-Channel Wideband Receiver	305-BGA	75.00	70.00	65.00

TEXAS INSTRUMENTS Digi-Reel® FIFO MEMORY

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA8550DR	296-9631-1-ND	Non-Volatile 5-Bit Reg. w/I^2C Interface	16-SOIC	1.38	1.10	.83
PCA8550DR	296-9631-2-ND	Non-Volatile 5-Bit Reg. w/I^2C Interface	16-SOIC	1760.00/2,500		
SN74ABT3612-15PCB	296-3984-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	17.25	16.10	14.95
SN74ABT3612-15PQ	296-3985-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	17.25	16.10	14.95
SN74ABT3612-20PCB	296-3986-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	14.96	13.47	11.95
SN74ABT3612-20PQ	296-3987-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	14.96	13.47	11.95
SN74ABT3612-30PCB	296-3988-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	15.73	14.16	12.56
SN74ABT3612-30PQ	296-3989-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.73	14.16	12.56
SN74ABT3614-15PCB	296-3996-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	17.25	16.10	14.95
SN74ABT3614-15PQ	296-3997-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.18	13.67	12.12
SN74ABT3614-20PCB	296-3998-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	14.96	13.47	11.95
SN74ABT3614-20PQ	296-3999-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	14.96	13.47	11.95
SN74ABT3614-30PCB	296-4000-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	15.73	14.16	12.56
SN74ABT3614-30PQ	296-4001-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.73	14.16	12.56
SN74ABT7820-20PH	296-4082-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	17.82	16.64	15.45
SN74ABT7820-20PN	296-4083-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-LQFP	17.82	16.64	15.45
SN74ABT7820-25PH	296-4084-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	10.63	9.57	8.49
SN74ABT7820-25PN	296-4085-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-LQFP	10.56	9.51	8.44
SN74ABT7820-30PH	296-4086-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	15.35	14.33	13.30
SN74ACT2226DWR	296-15971-1-ND	Dual 64x1 FIFO Memory	24-SOIC	5.40	4.32	3.36
SN74ACT2226DWR	296-15971-2-ND	Dual 64x1 FIFO Memory	24-SOIC	6120.00/2,000		
SN74ACT2227DW	296-4371-5-ND	Dual 64x1 FIFO Memory	28-SOIC	5.40	4.32	3.36
SN74ACT2227DWR	296-15972-1-ND	Dual 64x1 FIFO Memory	28-SOIC	5.40	4.32	3.36
SN74ACT2227DWR	296-15972-2-ND	Dual 64x1 FIFO Memory	28-SOIC	3060.00/1,000		
SN74ACT2228DW	296-4372-5-ND	Dual 256x1 FIFO Memory	24-SOIC	5.40	4.32	3.36

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FIFO MEMORY *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ACT2228DWR	296-15973-1-ND	Dual 256x1 FIFO Memory	24-SOIC	5.40	4.32	3.36
SN74ACT2228DWR	296-15973-2-ND	Dual 256x1 FIFO Memory	24-SOIC	6120.00/2,000		
SN74ACT2229DW	296-4373-5-ND	Dual 256x1 FIFO Memory	28-SOIC	6.00	4.80	4.05
SN74ACT2229DWR	296-15974-1-ND	Dual 256x1 FIFO Memory	28-SOIC	6.00	4.80	4.05
SN74ACT2229DWR	296-15974-2-ND	Dual 256x1 FIFO Memory	28-SOIC	3750.00/1,000		
SN74ACT2235-20PAG	296-4374-ND	1024x9x2 Bi-Dir. Async. FIFO Memory	64-TQFP	17.82	16.64	15.45
SN74ACT2235-40FN	296-4375-5-ND	1024x9x2 Bi-Dir. Async. FIFO Memory	44-PLCC	11.55	10.40	9.22
SN74ACT2235-60FN	296-4376-5-ND	1024x9x2 Bi-Dir. Async. FIFO Memory	44-PLCC	10.66	9.60	8.52
SN74ACT3622-20PCB	296-4392-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	120-TQFP	17.82	16.64	15.45
SN74ACT3622-20PQ	296-4393-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	17.82	16.64	15.45
SN74ACT3622-30PCB	296-4394-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	120-TQFP	17.40	16.24	15.08
SN74ACT3622-30PQ	296-4395-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.35	14.33	13.30
SN74ACT3631-20PCB	296-4398-ND	512x36 Clocked FIFO Memory	120-TQFP	17.82	16.64	15.45
SN74ACT3631-20PQ	296-4399-ND	512x36 Clocked FIFO Memory	132-BQFP	17.82	16.64	15.45
SN74ACT3631-30PCB	296-4400-ND	512x36 Clocked FIFO Memory	120-TQFP	15.35	14.33	13.30
SN74ACT3631-30PQ	296-4401-ND	512x36 Clocked FIFO Memory	132-BQFP	15.35	14.33	13.30
SN74ACT3632-20PCB	296-4404-ND	512x36x2 Bi-Directional FIFO Memory	120-TQFP	17.82	16.64	15.45
SN74ACT3632-20PQ	296-4405-ND	512x36x2 Bi-Directional FIFO Memory	132-BQFP	17.82	16.64	15.45
SN74ACT3632-30PCB	296-4406-ND	512x36x2 Bi-Directional FIFO Memory	120-TQFP	15.35	14.33	13.30
SN74ACT3632-30PQ	296-4407-ND	512x36x2 Bi-Directional FIFO Memory	132-BQFP	15.35	14.33	13.30
SN74ACT3641-20PCB	296-4410-ND	1Kx36 Clocked FIFO Memory	120-TQFP	21.78	20.33	18.88
SN74ACT3641-20PQ	296-4411-ND	1Kx36 Clocked FIFO Memory	132-BQFP	21.78	20.33	18.88
SN74ACT3641-30PCB	296-4412-ND	1Kx36 Clocked FIFO Memory	120-TQFP	21.78	20.33	18.88
SN74ACT3641-30PQ	296-4413-ND	1Kx36 Clocked FIFO Memory	132-BQFP	21.78	20.33	18.88
SN74ACT3651-15PQ	296-4415-ND	2Kx36 Synchronous FIFO Memory	132-BQFP	30.69	28.65	26.60
SN74ACT3651-20PCB	296-4416-ND	2Kx36 Synchronous FIFO Memory	120-TQFP	24.75	23.10	21.45
SN74ACT3651-20PQ	296-4417-ND	2Kx36 Synchronous FIFO Memory	132-BQFP	24.75	23.10	21.45
SN74ACT3651-30PCB	296-4418-ND	2Kx36 Synchronous FIFO Memory	120-TQFP	22.28	20.79	19.31
SN74ACT3651-30PQ	296-4419-ND	2Kx36 Synchronous FIFO Memory	132-BQFP	22.28	20.79	19.31
SN74ACT7802-25FN	296-4447-ND	1Kx18 Strobed FIFO Memory	68-PLCC	12.33	11.10	9.85
SN74ACT7802-25PN	296-4448-ND	1Kx18 Strobed FIFO Memory	80-TQFP	10.56	9.51	8.44
SN74ACT7803-20DL	296-4450-5-ND	512x18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7803-25DL	296-4451-5-ND	512x18 Clocked FIFO Memory	56-SOP	8.20	6.56	5.54
SN74ACT7803-25DLR	296-4451-1-ND	512x18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7803-25DLR	296-4451-2-ND	512x18 Clocked FIFO Memory	56-SOP	4950.00/1,000		
SN74ACT7803-40DL	296-4452-5-ND	512x18 Clocked FIFO Memory	56-SOP	8.20	6.56	5.54
SN74ACT7804-20DL	296-4453-5-ND	512x18 Strobed FIFO Memory	56-SOP	8.40	6.72	5.67
SN74ACT7804-20DLR	296-15975-1-ND	512x18 Strobed FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ACT7804-20DLR	296-15975-2-ND	512x18 Strobed FIFO Memory	56-SSOP	5375.00/1,000		
SN74ACT7804-40DLR	296-4454-1-ND	512x18 Strobed FIFO Memory	56-SOP	6.60	5.28	4.46
SN74ACT7804-40DLR	296-4454-2-ND	512x18 Strobed FIFO Memory	56-SOP	5250.00/1,000		
SN74ACT7805-15DLR	296-15976-1-ND	256x18 Clocked FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ACT7805-15DLR	296-15976-2-ND	256x18 Clocked FIFO Memory	56-SSOP	4950.00/1,000		
SN74ACT7805-20DL	296-4456-5-ND	256x18 Clocked FIFO Memory	56-SOP	14.96	13.47	11.95
SN74ACT7805-25DLR	296-4457-1-ND	256x18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7805-25DLR	296-4457-2-ND	256x18 Clocked FIFO Memory	56-SOP	4950.00/1,000		
SN74ACT7805-40DL	296-4458-5-ND	256x18 Clocked FIFO Memory	56-SOP	8.40	6.72	5.67
SN74ACT7806-20DL	296-4459-5-ND	256x18 Strobed FIFO Memory	56-SOP	14.96	13.47	11.95
SN74ACT7807-20FN	296-4462-5-ND	2Kx9 Clocked FIFO Memory	44-PLCC	17.82	16.64	15.45
SN74ACT7807-20PAG	296-4463-ND	2Kx9 Clocked FIFO Memory	64-TQFP	17.82	16.64	15.45
SN74ACT7807-25FN	296-4464-5-ND	2Kx9 Clocked FIFO Memory	44-PLCC	10.56	9.51	8.44
SN74ACT7807-25PAG	296-4465-ND	2Kx9 Clocked FIFO Memory	64-TQFP	10.56	9.51	8.44
SN74ACT7807-40FN	296-4466-5-ND	2Kx9 Clocked FIFO Memory	44-PLCC	11.55	10.40	9.22
SN74ACT7807-40PAG	296-4467-ND	2Kx9 Clocked FIFO Memory	64-TQFP	11.55	10.40	9.22
SN74ACT7808-20FN	296-4468-5-ND	2Kx9 Strobed FIFO Memory	44-PLCC	17.82	16.64	15.45
SN74ACT7808-20PAG	296-4469-ND	2Kx9 Strobed FIFO Memory	64-TQFP	17.82	16.64	15.45
SN74ACT7808-25FN	296-4470-5-ND	2Kx9 Strobed FIFO Memory	44-PLCC	10.56	9.51	8.44
SN74ACT7808-25PAG	296-4471-ND	2Kx9 Strobed FIFO Memory	64-TQFP	10.56	9.51	8.44
SN74ACT7808-30FN	296-4472-5-ND	2Kx9 Strobed FIFO Memory	44-PLCC	15.35	14.33	13.30
SN74ACT7808-30PAG	296-4473-ND	2Kx9 Strobed FIFO Memory	64-TQFP	15.35	14.33	13.30
SN74ACT7808-40FN	296-4474-5-ND	2Kx9 Strobed FIFO Memory	44-PLCC	11.55	10.40	9.22
SN74ACT7808-40PAG	296-4475-ND	2Kx9 Strobed FIFO Memory	64-TQFP	11.55	10.40	9.22
SN74ACT7811-18FN	296-4478-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	17.82	16.64	15.45
SN74ACT7811-18PN	296-4479-ND	1Kx18 Clocked FIFO Memory	80-TQFP	17.82	16.64	15.45
SN74ACT7811-20FN	296-4480-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	13.74	12.38	10.98
SN74ACT7811-20PN	296-4481-ND	1Kx18 Clocked FIFO Memory	80-TQFP	13.74	12.38	10.98
SN74ACT7811-25FN	296-4482-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	10.62	9.60	8.52
SN74ACT7811-25PN	296-4483-ND	1Kx18 Clocked FIFO Memory	80-TQFP	10.66	9.60	8.52
SN74ACT7813-20DL	296-4485-5-ND	64x18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7813-25DL	296-4486-5-ND	64x18 Clocked FIFO Memory	56-SOP	7.26	5.81	4.91
SN74ACT7813-40DL	296-4487-5-ND	64x18 Clocked FIFO Memory	56-SOP	6.60	5.28	4.46
SN74ACT7814-20DL	296-4488-5-ND	64x18 Strobed FIFO Memory	56-SOP	12.50	11.25	9.98
SN74ACT7814-40DLR	296-4489-1-ND	64x18 Strobed FIFO Memory	56-SOP	6.60	5.28	4.46
SN74ACT7814-40DLR	296-4489-2-ND	64x18 Strobed FIFO Memory	56-SOP	5375.00/1,000		
SN74ACT7881-15FN	296-4490-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	17.82	16.64	15.45
SN74ACT7881-15PN	296-4491-ND	1Kx18 Clocked FIFO Memory	80-TQFP	17.82	16.64	15.45
SN74ACT7881-20FN	296-4492-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	17.82	16.64	15.45
SN74ACT7881-20PN	296-4493-ND	1Kx18 Clocked FIFO Memory	80-TQFP	17.82	16.64	15.45
SN74ACT7881-30FN	296-4494-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	15.35	14.33	13.30
SN74ACT7881-30PN	296-4495-ND	1Kx18 Clocked FIFO Memory	80-TQFP	15.35	14.33	13.30
SN74ACT7882-15FN	296-4496-5-ND	2Kx18 Clocked FIFO Memory	68-PLCC	22.28	20.79	19.31
SN74ACT7882-20FN	296-4498-5-ND	2Kx18 Clocked FIFO Memory	68-PLCC	22.28	20.79	19.31
SN74ACT7882-20PN	296-4499-ND	2Kx18 Clocked FIFO Memory	80-LQFP	22.28	20.79	19.31
SN74ACT7882-30FN	296-4500-5-ND	2Kx18 Clocked FIFO Memory	68-PLCC	20.79	19.41	18.02
SN74ACT7882-30PN	296-4501-ND	2Kx18 Clocked FIFO Memory	80-LQFP	20.79	19.41	18.02
SN74ALS232BN	296-5039-5-ND	16x4 Asynchronous FIFO Memory	16-Dip	9.00	7.20	6.08
SN74ALVC7803-20DL	296-5161-5-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7803-20DLR	296-15978-1-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7803-20DLR	296-15978-2-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	4950.00/1,000		
SN74ALVC7803-25DL	296-5162-5-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7803-40DL	296-5163-5-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	7.10	5.68	4.80
SN74ALVC7804-25DL	296-5164-5-ND	512x18, 3.3V Async. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7805-20DLR	296-15979-1-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	14.96	13.47	11.95
SN74ALVC7805-20DLR	296-15979-2-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	11090.30/1,000		
SN74ALVC7805-25DL	296-5166-5-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7805-40DL	296-5167-5-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	5.94	4.76	4.01
SN74ALVC7806-25DL	296-5168-5-ND	256x18, 3.3V Async. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7813-20DL	296-5169-5-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7813-20DLR	296-15980-1-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7813-20DLR	296-15980-2-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	4950.00/1,000		
SN74ALVC7813-25DL	296-5170-5-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	7.26	5.81	4.91
SN74ALVC7813-40DL	296-5171-5-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	6.60	5.28	4.46
SN74ALVC7814-25DL	296-5172-5-ND	64x18, 3.3V Async. FIFO Memory	56-SSOP	7.26	5.81	4.91
SN74ALVC7814-40DL	296-5173-5-ND	64x18, 3.3V Async. FIFO Memory	56-SSOP	6.60	5.28	4.46
SN74V215-7PAG	296-9897-ND	512x18 Sync. FIFO Memory	64-TQFP	9.90	8.91	7.91
SN74V215-10PAG	296-9894-ND	512x18 Sync. FIFO Memory	64-TQFP	16.70	13.36	11.28
SN74V215-15PAG	296-9895-ND	512x18 Sync. FIFO Memory	64-TQFP	10.16	9.15	8.12
SN74V225-7PAG	296-9901-ND	1024x18 Sync. FIFO Memory	64-TQFP	9.50	8.55	7.59
SN74V225-10PAG	296-9898-ND	1024x18 Sync. FIFO Memory	64-TQFP	9.50	8.55	7.59
SN74V225-15PAG	296-9899-ND	1024x18 Sync. FIFO Memory	64-TQFP	10.00	9.00	7.98
SN74V225-20PAG	296-9900-ND	1024x18 Sync. FIFO Memory	64-TQFP	9.83	8.85	7.85
SN74V235-7PAG	296-9905-ND	2048x18 Sync. FIFO Memory	64-TQFP	9.50	8.55	7.59
SN74V235-10PAG	296-9902-ND	2048x18 Sync. FIFO Memory	64-TQFP	9.50	8.55	7.59
SN74V235-15PAG	296-9903-ND	2048x18 Sync. FIFO Memory	64-TQFP	9.66	8.70	7.72
SN74V235-20PAG	296-9904-ND	2048x18 Sync. FIFO Memory	64-TQFP	9.66	8.70	7.72
SN74V245-7PAG	296-9909-ND	4096x18 Sync. FIFO Memory	64-TQFP	9.65	8.69	7.71
SN74V245-15PAG	296-9907-ND	4096x18 Sync. FIFO Memory	64-TQFP	9.08	8.18	7.25
SN74V245-20PAG	296-9908-ND	4096x18 Sync. FIFO Memory	64-TQFP	9.33	8.40	7.45
SN74V263-6PZA	296-12479-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	22.37	20.88	19.39
SN74V263-7GGM	296-15723-5-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	32.91	30.72	28.53
SN74V263-7PZA	296-12480-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	21.74	20.29	18.84
SN74V263-10PZA	296-12477-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	21.11	19.70	18.30
SN74V263-15PZA	296-12478-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	20.46	19.10	17.74
SN74V263PZAEP	296-15318-ND	8192x18, 3.3V Sync. FIFO Memory ***NEW!***	80-LQFP	22.73	21.21	19.70
SN74V273-6PZA	296-12483-ND	16384x18, 3.3V Sync. FIFO Memory	80-TQFP	24.30	22.68	21.06
SN74V273-7PZA	296-12484-ND	16384x18, 3.3V Sync. FIFO Memory	80-TQFP	23.66	22.08	20.51
SN74V273-10PZA	296-12481-ND	16384x18, 3.3V Sync. FIFO Memory	80-TQFP	23.01	21.48	19.95
SN74V273-15PZA	296-12482-ND	16384x18, 3.3V Sync. FIFO Memory	80-TQFP	22.37	20.88	19.39
SN74V273PZAEP	296-22401-ND	16384x18, 3.3V Sync. FIFO Memory ***NEW!***	80-LQFP	24.84	23.19	21.53
SN74V283-6PZA	296-12487-ND	32768x18, 3.3V Sync. FIFO Memory	80-TQFP	26.22	24.48	22.73
SN74V283PZAEP	296-22402-ND	32768x18, 3.3V Sync. FIFO Memory ***NEW!***	80-LQFP	27.00	25.20	23.40
SN74V293-6GGM	296-18205-ND	65536x18, 3.3V Sync. FIFO Memory	100-BGA	40.77	38.06	35.34
SN74V293-6PZA	296-12491-ND	65536x18, 3.3V Sync. FIFO Memory	80-TQFP	28.13	26.25	24.38
SN74V293-7PZA	296-12492-ND	65536x18, 3.3V Sync. FIFO Memory	80-TQFP	27.50	25.67	23.83
SN74V293-10PZA	296-12489-ND	65536x18, 3.3V Sync. FIFO Memory	80-TQFP	26.85	25.06	23.27
SN74V293-15PZA	296-12490-ND	65536x18, 3.3V Sync. FIFO Memory	80-TQFP	26.22	24.48	22.73
SN74V293PZAEP	296-22403-ND	65536x18, 3.3V Sync. FIFO Memory ***NEW!***	80-LQFP	29.13	27.19	25.25
SN74V3640-7PEU	296-14940-ND	1024x36, 3.3V FIFO CMOS Memory	128-LQFP	18.35	17.13	15.90
SN74V3650-7PEU	296-14941-ND	2048x36, 3.3V FIFO CMOS Memory	128-LQFP	19.97	18.64	17.31
SN74V3660-6PEU	296-21341-ND	4096x36, 3.3V FIFO CMOS Memory	128-LQFP	22.37	20.88	19.39
SN74V3660-7PEU	296-14942-ND	4096x36, 3.3V FIFO CMOS Memory	128-LQFP	21.74	20.29	18.84
SN74V3680-7PEU	296-14944-ND	16384x36, 3.3V FIFO CMOS Memory	128-LQFP	25.58	23.87	22.17
SN74V3690-6PEU	296-14945-ND	32768x36, 3.3V FIFO CMOS Memory	128-LQFP	28.13	26.25	24.38

FILTERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC04ID	296-10230-5-ND	Butterworth Switched-Capacitor Filter	8-SOIC	2.59	2.07	1.61
TLC14CD	296-10239-5-ND	Butterworth Switched-Capacitor Filter	8-SOIC	2.38	1.90	1.43
TLC14ID	296-10240-5-ND	Butterworth Switched-Capacitor Filter	8-SOIC	2.25	1.80	1.40
UAF42AP	UAF42AP-ND	Universal Active Filter, -108db THD	14-Dip	12.58	11.33	10.05
UAF42AU	UAF42AU-ND	Universal Active Filter	16-SOIC	12.58	11.33	10.05

NEW! INTERFACE

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN75DP122RTQR	296-23152-1-ND	DisplayPort 1:2 Switch	56-QFN	4.28	3.42	2.66
SN75DP122RTQR	296-23152-2-ND	DisplayPort 1:2 Switch	56-QFN	4846.00/2,000		
SN75DP128RTQR	296-23119-1-ND	DisplayPort 1:2 Switch	56-QFN	3.71	2.97	2.31
SN75DP128RTQR	296-23119-2-ND	DisplayPort 1:2 Switch	56-QFN	4208.00/2,000		
SN75DP129RHHR	296-23096-1-ND	DisplayPort to TMDS Translator	36-QFN	2.93	2.34	1.82
SN75DP129RHHR	296-23096-2-ND	DisplayPort to TMDS Translator	36-QFN	4095.00/2,500		

INTEGRATORS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ACF2101BU	ACF2101BU-ND	Low Noise, Dual, Switched Integrator	24-SOIC	23.33	—	—
IVC102U	IVC102U-ND	Prec. Switched Integrator Trans. Amp	14-SOIC	9.10	—	—

I/O EXPANDERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA6107DWR	296-21756-1-ND	8-Bit, Remote I^2C and SMBus Low Power I/O Expander	18-SOIC	2.43	1.94	1.46
PCA6107DWR	296-21756-2-ND	8-Bit, Remote I^2C and SMBus Low Power I/O Expander	18-SOIC	2522.00/2,000		
PCA9534ADBR	296-21757-1-ND	8-Bit, Remote I^2C and SMBus Low Power I/O Expander	16-SSOP	1.78	1.42	1.07
PCA9534ADBR	296-21757-2-ND	8-Bit, Remote I^2C and SMBus Low Power I/O Expander	16-SSOP	1846.00/2,000		
PCA9534ADGVR	296-21758-1-ND	8-Bit, Remote I^2C and SMBus Low Power I/O Expander	16-TVSOP	1.78	1.42	1.07
PCA9534ADGVR	296-21758-2-ND	8-Bit, Remote I^2C and SMBus Low Power I/O Expander	16-TVSOP	1846.00/2,000		
PCA9534ADWR	296-21759-1-ND	8-Bit, Remote I^2C and SMBus Low Power I/O Expander	16-SOIC	1.78	1.42	1.07
PCA9534ADWR	296-21759-2-ND	8-Bit, Remote I^2C and SMBus Low Power I/O Expander	16-SOIC	1846.00/2,000		
PCA9534APWR	296-21760-1-ND	8-Bit, Remote I^2C and SMBus Low Power I/O Expander	16-TSSOP	1.78	1.42	1.07
PCA9534APWR	296-21760-2-ND	8-Bit, Remote I^2C and SMBus Low Power I/O Expander	16-TSSOP	1846.00/2,000		
PCA9534ARGVR	296-22707-1-ND	8-Bit, Remote I^2C and SMBus Low Power I/O Expander ***NEW!***	16-QFN	1.78	1.42	1.07
PCA9534ARGVR	296-22707-2-ND	8-Bit, Remote I^2C and SMBus Low Power I/O Expander ***NEW!***	16-QFN	2272.50/2,500		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA9534DBR	296-21761-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-SSOP	1.78	1.42	1.07
PCA9534DBR	296-21761-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-SSOP	1846.00/2,000		
PCA9534DGVR	296-21762-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-TVSOP	1.78	1.42	1.07
PCA9534DGVR	296-21762-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-TVSOP	1846.00/2,000		
PCA9534DWR	296-21763-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-SOIC	1.78	1.42	1.07
PCA9534DWR	296-21763-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-SOIC	1846.00/2,000		
PCA9534PWR	296-21764-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-TSSOP	1.78	1.42	1.07
PCA9534PWR	296-21764-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-TSSOP	1846.00/2,000		
PCA9534RGVR	296-22708-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander ***NEW!***	16-QFN	1.78	1.42	1.07
PCA9534RGVR	296-22708-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander ***NEW!***	16-QFN	2272.50/2,500		
PCA9535DBQR	296-20947-1-ND	16-Bit, Remote I^{2}C and SMBus, Low Power I/O Expander	24-QSOP	2.28	1.82	1.37
PCA9535DBQR	296-20947-2-ND	16-Bit, Remote I^{2}C and SMBus, Low Power I/O Expander	24-QSOP	2912.50/2,500		
PCA9535DBR	296-20948-1-ND	16-Bit, Remote I^{2}C and SMBus, Low Power I/O Expander	24-SSOP	2.28	1.82	1.37
PCA9535DBR	296-20948-2-ND	16-Bit, Remote I^{2}C and SMBus, Low Power I/O Expander	24-SSOP	2366.00/2,000		
PCA9535DGVR	296-20949-1-ND	16-Bit, Remote I^{2}C and SMBus, Low Power I/O Expander	24-TVSOP	2.28	1.82	1.37
PCA9535DGVR	296-20949-2-ND	16-Bit, Remote I^{2}C and SMBus, Low Power I/O Expander	24-TVSOP	2366.00/2,000		
PCA9535DWR	296-20950-1-ND	16-Bit, Remote I^{2}C and SMBus, Low Power I/O Expander	24-SOIC	2.28	1.82	1.37
PCA9535DWR	296-20950-2-ND	16-Bit, Remote I^{2}C and SMBus, Low Power I/O Expander	24-SOIC	2366.00/2,000		
PCA9535PWR	296-20951-1-ND	16-Bit, Remote I^{2}C and SMBus, Low Power I/O Expander	24-TSSOP	2.28	1.82	1.37
PCA9535PWR	296-20951-2-ND	16-Bit, Remote I^{2}C and SMBus, Low Power I/O Expander	24-TSSOP	2366.00/2,000		
PCA9535RTWR	296-22768-1-ND	16-Bit, Remote I^{2}C and SMBus, Low Power I/O Expander ***NEW!***	24-QFN	2.28	1.82	1.37
PCA9535RTWR	296-22768-2-ND	16-Bit, Remote I^{2}C and SMBus, Low Power I/O Expander ***NEW!***	24-QFN	3495.00/3,000		
PCA9536DGKR	296-20952-1-ND	4-Bit, Remote I^{2}C and SMBus I/O Expander	8-VSSOP	1.38	1.10	.83
PCA9536DGKR	296-20952-2-ND	4-Bit, Remote I^{2}C and SMBus I/O Expander	8-VSSOP	1760.00/2,500		
PCA9536DR	296-21765-1-ND	4-Bit, Remote I^{2}C and SMBus I/O Expander	8-SOIC	1.38	1.10	.83
PCA9536DR	296-21765-2-ND	4-Bit, Remote I^{2}C and SMBus I/O Expander	8-SOIC	1760.00/2,500		
PCA9538DBR	296-21766-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-SSOP	2.30	1.84	1.38
PCA9538DBR	296-21766-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-SSOP	2392.00/2,000		
PCA9538DGVR	296-21767-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-TVSOP	2.30	1.84	1.38
PCA9538DGVR	296-21767-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-TVSOP	2392.00/2,000		
PCA9538DWR	296-21768-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-SOIC	2.30	1.84	1.38
PCA9538DWR	296-21768-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-SOIC	2392.00/2,000		
PCA9538PWR	296-21769-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-TSSOP	2.30	1.84	1.38
PCA9538PWR	296-21769-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-TSSOP	2392.00/2,000		
PCA9539DBR	296-20953-1-ND	16-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	24-SSOP	2.36	1.89	1.47
PCA9539DBR	296-20953-2-ND	16-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	24-SSOP	2678.00/2,000		
PCA9539DGVR	296-20954-1-ND	16-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	24-TVSOP	2.36	1.89	1.47
PCA9539DGVR	296-20954-2-ND	16-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	24-TVSOP	2678.00/2,000		
PCA9539DWR	296-20955-1-ND	16-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	24-SOIC	2.36	1.89	1.47
PCA9539DWR	296-20955-2-ND	16-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	24-SOIC	2678.00/2,000		
PCA9539PWR	296-20956-1-ND	16-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	24-TSSOP	2.36	1.89	1.47
PCA9539PWR	296-20956-2-ND	16-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	24-TSSOP	2678.00/2,000		
PCA9554ADBR	296-21777-1-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-SSOP	2.00	1.60	1.20
PCA9554ADBR	296-21777-2-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-SSOP	2080.00/2,000		
PCA9554ADGVR	296-21778-1-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-TVSOP	2.00	1.60	1.20
PCA9554ADGVR	296-21778-2-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-TVSOP	2080.00/2,000		
PCA9554ADWR	296-21779-1-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-SOIC	2.00	1.60	1.20
PCA9554ADWR	296-21779-2-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-SOIC	2080.00/2,000		
PCA9554APWR	296-21780-1-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-TSSOP	2.00	1.60	1.20
PCA9554APWR	296-21780-2-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-TSSOP	2080.00/2,000		
PCA9554ARGVR	296-22709-1-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander ***NEW!***	16-QFN	1.78	1.42	1.07
PCA9554ARGVR	296-22709-2-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander ***NEW!***	16-QFN	2272.50/2,500		
PCA9554DBR	296-21781-1-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-SSOP	2.00	1.60	1.20
PCA9554DBR	296-21781-2-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-SSOP	2080.00/2,000		
PCA9554DGVR	296-21782-1-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-TVSOP	2.00	1.60	1.20
PCA9554DGVR	296-21782-2-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-TVSOP	2080.00/2,000		
PCA9554DWR	296-21783-1-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-SOIC	2.00	1.60	1.20
PCA9554DWR	296-21783-2-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-SOIC	2080.00/2,000		
PCA9554PWR	296-21784-1-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-TSSOP	2.00	1.60	1.20
PCA9554PWR	296-21784-2-ND	8-Bit, Remote I^{2}C and SMBus I/O Expander	16-TSSOP	2080.00/2,000		
PCA9555DBQR	296-20970-1-ND	16-Bit, Remote I^{2}C and SMBus I/O Expander	24-QSOP	2.48	1.98	1.54
PCA9555DBQR	296-20970-2-ND	16-Bit, Remote I^{2}C and SMBus I/O Expander	24-QSOP	3465.00/2,500		
PCA9555DBR	296-20971-1-ND	16-Bit, Remote I^{2}C and SMBus I/O Expander	24-SSOP	2.48	1.98	1.54
PCA9555DBR	296-20971-2-ND	16-Bit, Remote I^{2}C and SMBus I/O Expander	24-SSOP	2806.00/2,000		
PCA9555DGVR	296-20972-1-ND	16-Bit, Remote I^{2}C and SMBus I/O Expander	24-TVSOP	2.48	1.98	1.54
PCA9555DGVR	296-20972-2-ND	16-Bit, Remote I^{2}C and SMBus I/O Expander	24-TVSOP	2806.00/2,000		
PCA9555DWR	296-20973-1-ND	16-Bit, Remote I^{2}C and SMBus I/O Expander	24-SOIC	2.48	1.98	1.54
PCA9555DWR	296-20973-2-ND	16-Bit, Remote I^{2}C and SMBus I/O Expander	24-SOIC	2806.00/2,000		
PCA9555PWR	296-20974-1-ND	16-Bit, Remote I^{2}C and SMBus I/O Expander	24-TSSOP	2.48	1.98	1.54
PCA9555PWR	296-20974-2-ND	16-Bit, Remote I^{2}C and SMBus I/O Expander	24-TSSOP	2806.00/2,000		
PCA9557DBR	296-20975-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-SSOP	2.13	1.70	1.28
PCA9557DBR	296-20975-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-SSOP	2210.00/2,000		
PCA9557DGVR	296-20976-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-TVSOP	2.13	1.70	1.28
PCA9557DGVR	296-20976-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-TVSOP	2210.00/2,000		
PCA9557DR	296-20977-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-SOIC	2.13	1.70	1.28
PCA9557DR	296-20977-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-SOIC	2720.00/2,500		
PCA9557PWR	296-20978-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-TSSOP	2.13	1.70	1.28
PCA9557PWR	296-20978-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-TSSOP	2210.00/2,000		
PCA9557RGVR	296-21785-1-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-QFN	2.13	1.70	1.28
PCA9557RGVR	296-21785-2-ND	8-Bit, Remote I^{2}C and SMBus Low Power I/O Expander	16-QFN	2720.00/2,500		
PCF8574ADGVR	296-17437-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TVSOP	1.75	1.40	1.05
PCF8574ADGVR	296-17437-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TVSOP	1820.00/2,000		
PCF8574ADWR	296-13105-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-SOIC	1.75	1.40	1.05
PCF8574ADWR	296-13105-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-SOIC	1820.00/2,000		
PCF8574AN	296-13106-5-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-Dip	1.75	1.40	1.05
PCF8574APWR	296-13107-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TSSOP	1.75	1.40	1.05
PCF8574APWR	296-13107-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TSSOP	1820.00/2,000		
PCF8574ARGYR	296-15150-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-QFN	1.75	1.40	1.05
PCF8574ARGYR	296-15150-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-QFN	910.00/1,000		
PCF8574DGVR	296-17364-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TVSOP	1.75	1.40	1.05
PCF8574DGVR	296-17364-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TVSOP	1820.00/2,000		
PCF8574DWR	296-13108-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-SOIC	1.75	1.40	1.05
PCF8574DWR	296-13108-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-SOIC	1820.00/2,000		
PCF8574N	296-13109-5-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-Dip	1.75	1.40	1.05
PCF8574PWR	296-13110-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TSSOP	1.51	1.21	.91
PCF8574PWR	296-13110-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TSSOP	1574.00/2,000		
PCF8574RGTR	296-21238-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-QFN	1.75	1.40	1.05
PCF8574RGTR	296-21238-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-QFN	2688.00/3,000		
PCF8574RGYR	296-15173-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-QFN	1.75	1.40	1.05
PCF8574RGYR	296-15173-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-QFN	910.00/1,000		
PCF8575CDBQR	296-17913-1-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-QSOP	2.03	1.62	1.26
PCF8575CDBQR	296-17913-2-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-QSOP	2835.00/2,500		
PCF8575CDBR	296-20979-1-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-SSOP	2.25	1.80	1.35
PCF8575CDBR	296-20979-2-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-SSOP	2340.00/2,000		
PCF8575CDGVR	296-17914-1-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-TVSOP	2.03	1.62	1.26
PCF8575CDGVR	296-17914-2-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-TVSOP	2296.00/2,000		
PCF8575CDWR	296-17915-1-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-SOIC	2.03	1.62	1.26
PCF8575CDWR	296-17915-2-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-SOIC	2296.00/2,000		
PCF8575CPWR	296-17916-1-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-TSSOP	2.03	1.62	1.26
PCF8575CPWR	296-17916-2-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-TSSOP	2296.00/2,000		
PCF8575CRGER	296-20980-1-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-QFN	2.25	1.80	1.35
PCF8575CRGER	296-20980-2-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-QFN	3456.00/3,000		
PCF8575DBQR	296-17806-1-ND	16-Bit, Remote I/O Expander for I^{2}C and SMBus	24-QSOP	2.03	1.62	1.26

(Continued)

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TEXAS INSTRUMENTS Digi-Reel® I/O EXPANDERS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCF8575DBQR	296-17806-2-ND	16-Bit, Remote I/O Expander for I^2C and SMBus	24-QSOP	2835.00/2,500		
PCF8575DBR	296-17856-1-ND	16-Bit, Remote I/O Expander for I^2C and SMBus	24-SSOP	2.03	1.62	1.26
PCF8575DBR	296-17856-2-ND	16-Bit, Remote I/O Expander for I^2C and SMBus	24-SSOP	2296.00/2,000		
PCF8575DGVR	296-17792-1-ND	16-Bit, Remote I/O Expander for I^2C and SMBus	24-TVSOP	2.03	1.62	1.26
PCF8575DGVR	296-17792-2-ND	16-Bit, Remote I/O Expander for I^2C and SMBus	24-TVSOP	2296.00/2,000		
PCF8575DWR	296-20981-1-ND	16-Bit, Remote I/O Expander for I^2C and SMBus	24-SOIC	2.25	1.80	1.35
PCF8575DWR	296-20981-2-ND	16-Bit, Remote I/O Expander for I^2C and SMBus	24-SOIC	2340.00/2,000		
PCF8575PWR	296-17807-1-ND	16-Bit, Remote I/O Expander for I^2C and SMBus	24-TSSOP	2.03	1.62	1.26
PCF8575PWR	296-17807-2-ND	16-Bit, Remote I/O Expander for I^2C and SMBus	24-TSSOP	2296.00/2,000		
PCF8575RGER	296-20982-1-ND	16-Bit, Remote I/O Expander for I^2C and SMBus	24-QFN	2.25	1.80	1.35
PCF8575RGER	296-20982-2-ND	16-Bit, Remote I/O Expander for I^2C and SMBus	24-QFN	3456.00/3,000		
PCA9535RGER	296-19548-1-ND	16-Bit Remote I^2C and SMBus, Low Power I/O Expander	24-QFN	2.28	1.82	1.37
PCA9535RGER	296-19548-2-ND	16-Bit Remote I^2C and SMBus, Low Power I/O Expander	24-QFN	3495.00/3,000		
PCA9539DBQR	296-19266-1-ND	16-Bit Remote I^2C and SMBus, Low Power I/O Expander	24-QSOP	2.39	1.91	1.49
PCA9539DBQR	296-19266-2-ND	16-Bit Remote I^2C and SMBus, Low Power I/O Expander	24-QSOP	3307.50/2,500		
PCA9539RGER	296-19549-1-ND	16-Bit Remote I^2C and SMBus, Low Power I/O Expander	24-QFN	2.36	1.89	1.47
PCA9539RGER	296-19549-2-ND	16-Bit Remote I^2C and SMBus, Low Power I/O Expander	24-QFN	3969.00/3,000		
PCA9555RGER	296-19591-1-ND	16-Bit Remote I^2C and SMBus, I/O Expander	24-QFN	2.48	1.98	1.54
PCA9555RGER	296-19591-2-ND	16-Bit Remote I^2C and SMBus, I/O Expander	24-QFN	4158.00/3,000		
PCA9557RGYR	296-19472-1-ND	8-Bit Remote I^2C and SMBus Low Power I/O Expander	16-QFN	2.13	1.70	1.28
PCA9557RGYR	296-19472-2-ND	8-Bit Remote I^2C and SMBus Low Power I/O Expander	16-QFN	1105.00/1,000		
TCA6408PWR	296-21822-1-ND	Low Voltage 8-Bit I^2C and SMBus I/O Expander	16-TSSOP	2.72	2.18	1.70
TCA6408PWR	296-21822-2-ND	Low Voltage 8-Bit I^2C and SMBus I/O Expander	16-TSSOP	3086.00/2,000		
TCA6408RGTR	296-21823-1-ND	Low Voltage 8-Bit I^2C and SMBus I/O Expander	16-QFN	2.93	2.34	1.82
TCA6408RGTR	296-21823-2-ND	Low Voltage 8-Bit I^2C and SMBus I/O Expander	16-QFN	4914.00/3,000		

TEXAS INSTRUMENTS Digi-Reel® LINEAR PERIPHERAL DRIVERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DS3680D	296-9484-5-ND	Quad Telephone Relay Driver	14-SOIC	.84	.70	.56
DS3680N	296-9485-5-ND	Quad Telephone Relay Driver	14-Dip	.90	.75	.60
SN75437ANE	296-14959-5-ND	Quad Peripheral Driver	16-Dip	1.32	1.10	.88
SN754410NE	296-9911-5-ND	Quad Half-H Driver	16-Dip	1.65	1.32	.99
SN75451BD	296-9912-5-ND	Dual High Speed Peripheral Driver	8-SOIC	.55	.44	.33
SN75451BDR	296-14960-1-ND	Dual High Speed Peripheral Driver	8-SOIC	.55	.44	.33
SN75451BDR	296-14960-2-ND	Dual High Speed Peripheral Driver	8-SOIC	372.50/2,500		
SN75451BP	296-1746-5-ND	Dual High Speed Peripheral Driver	8-Dip	.55	.44	.33
SN75452BDR	296-14961-1-ND	Dual High Speed Peripheral Driver	8-SOIC	.55	.44	.33
SN75452BDR	296-14961-2-ND	Dual High Speed Peripheral Driver	8-SOIC	372.50/2,500		
SN75452BP	296-1747-5-ND	Dual High Speed Peripheral Driver	8-Dip	.55	.44	.33
SN75453BD	296-9913-5-ND	Dual High Speed Peripheral Driver	8-SOIC	.80	.60	.45
SN75453BDR	296-9913-1-ND	Dual High Speed Peripheral Driver	8-SOIC	.55	.44	.33
SN75453BDR	296-9913-2-ND	Dual High Speed Peripheral Driver	8-SOIC	372.50/2,500		
SN75453BP	296-1748-5-ND	Dual High Speed Peripheral Driver	8-Dip	.55	.44	.33
SN75454BP	296-9914-5-ND	Dual High Speed Peripheral Driver	8-Dip	.80	.60	.45
SN75462P	296-9915-5-ND	Dual Peripheral Driver	8-Dip	1.14	.95	.76
SN75463P	296-9916-5-ND	Dual Peripheral Driver	8-Dip	1.35	1.13	.90
SN75468N	296-9917-5-ND	High Voltage Darlington Transistor Array	16-Dip	.62	.47	.35
SN75469N	296-9918-5-ND	High Voltage Darlington Transistor Array	16-Dip	.80	.60	.45
SN75471P	296-9919-5-ND	Dual Peripheral Driver	8-Dip	.80	.60	.45
SN75477DR	296-14962-1-ND	Dual Peripheral Driver	8-SOIC	.80	.60	.45
SN75477DR	296-14962-2-ND	Dual Peripheral Driver	8-SOIC	650.00/2,500		
SN75477P	296-9920-5-ND	Dual Peripheral Driver	8-Dip	.66	.50	.38
SN75472P	296-1749-5-ND	Dual Peripheral Driver	8-Dip	.66	.50	.38
TLC5904PZP	296-2378-ND	Constant Current LED Driver	100-HTQFP	7.40	5.92	5.00
TLC5905PAP	296-2379-ND	Constant Current LED Driver	64-HTQFP	5.70	4.56	3.85
TLC5911PZP	296-2381-ND	Constant Current LED Driver	100-HTQFP	9.00	7.20	6.08
TLC5916IDR	296-22710-1-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-SOIC	1.35	1.13	.90
TLC5916IDR	296-22710-2-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-SOIC	1462.50/2,500		
TLC5916IPWR	296-22711-1-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-TSSOP	1.35	1.13	.90
TLC5916IPWR	296-22711-2-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-TSSOP	1198.00/2,000		
TLC5916QDRQ1	296-23321-1-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-SOIC	1.68	1.34	1.01
TLC5916QDRQ1	296-23321-2-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-SOIC	2145.00/2,500		
TLC5917IDR	296-21995-1-ND	8-Bit Constant Current LED Sink Driver	16-SOIC	1.50	1.20	.90
TLC5917IDR	296-21995-2-ND	8-Bit Constant Current LED Sink Driver	16-SOIC	1920.00/2,500		
TLC5917IPWR	296-21996-1-ND	8-Bit Constant Current LED Sink Driver	16-TSSOP	1.50	1.20	.90
TLC5917IPWR	296-21996-2-ND	8-Bit Constant Current LED Sink Driver	16-TSSOP	1560.00/2,000		
TLC5917QDRQ1	296-23322-1-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-SOIC	1.75	1.40	1.05
TLC5917QDRQ1	296-23322-2-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-SOIC	2240.00/2,500		
TLC5920DL	296-10348-5-ND	LED Driver with Shift Register	48-SSOP	2.48	1.98	1.54
TLC5921DAP	296-10349-5-ND	LED Driver with Shift Register	32-HTSSOP	2.68	2.15	1.67
TLC5922DAP	296-15843-5-ND	16-Channel LED Driver	32-HTSSOP	3.04	2.43	1.89
TLC5923DAP	296-17731-5-ND	16-Channel LED Driver	32-HTSSOP	3.15	2.52	1.96
TLC5923RHB	296-19333-ND	16-Channel LED Driver	32-QFN	3.15	2.52	1.96
TLC5923RHBT	296-19334-1-ND	16-Channel LED Driver	32-QFN	3.49	2.79	2.17
TLC5923RHBT	296-19334-2-ND	16-Channel LED Driver	32-QFN	515.50/250		
TLC5924DAP	296-20736-ND	16-Channel LED Driver	32-HTSSOP	3.38	2.70	2.10
TLC5924RHBT	296-20779-1-ND	16-Channel LED Driver	32-QFN	3.71	2.97	2.31
TLC5924RHBT	296-20779-2-ND	16-Channel LED Driver	32-QFN	548.75/250		
TLC5930PWP	296-15631-5-ND	12-Channel LED Driver	24-HTSSOP	8.30	6.64	5.61
TLC5940PWP	296-17733-5-ND	16-Channel LED Driver	28-HTSSOP	4.28	3.42	2.66
TLC5940RHB	296-18021-ND	16-Channel LED Driver	32-QFN	4.28	3.42	2.66
TLC5940RHBR	296-21251-1-ND	16-Channel LED Driver	32-QFN	4.28	3.42	2.66
TLC5940RHBR	296-21251-2-ND	16-Channel LED Driver	32-QFN	7182.00/3,000		
TLC5941EVM-156	296-21104-ND	Evaluation Module for TLC5941	—	101.00	—	—
TLC5941PWP	296-18617-5-ND	16-Channel LED Driver	28-HTSSOP	3.71	2.97	2.31
TLC5941RHB	296-18618-ND	16-Channel LED Driver	32-QFN	3.71	2.97	2.31
TLC5941RHBT	296-21105-1-ND	16-Channel LED Driver	32-QFN	4.50	3.60	2.80
TLC5941RHBT	296-21105-2-ND	16-Channel LED Driver	32-QFN	665.00/250		
TLC5942PWP	296-22868-5-ND	16-Ch., 12-Bit PWM LED Driver ***NEW!***	28-HTSSOP	3.94	3.15	2.45
TLC5942RHBT	296-22869-1-ND	16-Ch., 12-Bit PWM LED Driver ***NEW!***	32-QFN	4.73	3.78	2.94
TLC5942RHBT	296-22869-2-ND	16-Ch., 12-Bit PWM LED Driver ***NEW!***	32-QFN	698.25/250		
TLC5943PWPR	296-22974-1-ND	16-Ch., 16-Bit PWM LED Driver ***NEW!***	28-HTSSOP	4.50	3.60	2.80
TLC5943PWPR	296-22974-2-ND	16-Ch., 16-Bit PWM LED Driver ***NEW!***	28-HTSSOP	5100.00/2,000		
TLC5943RHBR	296-23091-1-ND	16-Ch., 16-Bit PWM LED Driver ***NEW!***	32-QFN	4.95	3.96	3.08
TLC5943RHBR	296-23091-2-ND	16-Ch., 16-Bit PWM LED Driver ***NEW!***	32-QFN	8316.00/3,000		
TLC5945PWPR	296-21862-1-ND	16-Channel LED Driver	28-HTSSOP	3.94	3.15	2.45
TLC5945PWPR	296-21862-2-ND	16-Channel LED Driver	28-HTSSOP	4462.00/2,000		
TLC5945RHBR	296-21863-1-ND	16-Channel LED Driver	32-QFN	3.94	3.15	2.45
TLC5945RHBR	296-21863-2-ND	16-Channel LED Driver	32-QFN	6615.00/3,000		
TPIC2810D	296-13746-5-ND	8-Bit LED Driver with I^2C Interface	16-SOIC	2.15	1.72	1.29
TPIC2810DG4	296-21426-5-ND	8-Bit LED Driver with I^2C Interface	16-SOIC	2.15	1.72	1.29
TPL9201PWPR	296-21442-1-ND	8-Channel Relay Driver	20-HTSSOP	1.44	1.20	.96
TPL9201PWPR	296-21442-2-ND	8-Channel Relay Driver	20-HTSSOP	1276.00/2,000		
TPS61160DRVR	296-22942-1-ND	White LED Driver ***NEW!***	6-SON	2.13	1.70	1.28
TPS61160DRVR	296-22942-2-ND	White LED Driver ***NEW!***	6-SON	3264.00/3,000		
TPS61161DRVR	296-22943-1-ND	White LED Driver ***NEW!***	6-SON	2.25	1.80	1.40
TPS61161DRVR	296-22943-2-ND	White LED Driver ***NEW!***	6-SON	3780.00/3,000		
TPS61165DRVR	296-22944-1-ND	High Brightness White LED Driver ***NEW!***	6-SON	3.15	2.52	1.96
TPS61165DRVR	296-22944-2-ND	High Brightness White LED Driver ***NEW!***	6-SON	5292.00/3,000		
ULN2003AD	296-1368-5-ND	Darlington Transistor Array	16-SOIC	.53	.42	.32
ULN2003ADR	296-1368-1-ND	Darlington Transistor Array	16-SOIC	.50	.40	.30
ULN2003ADR	296-1368-2-ND	Darlington Transistor Array	16-SOIC	335.00/2,500		
ULN2003AIDR	296-15407-1-ND	Darlington Transistor Array	16-SOIC	.64	.48	.36
ULN2003AIDR	296-15407-2-ND	Darlington Transistor Array	16-SOIC	520.00/2,500		
ULN2003AIN	296-16971-5-ND	Darlington Transistor Array	16-Dip	.64	.48	.36
ULN2003AIPWR	296-17785-1-ND	Darlington Transistor Array	16-TSSOP	.64	.48	.36
ULN2003AIPWR	296-17785-2-ND	Darlington Transistor Array	16-TSSOP	426.00/2,000		
ULN2003AN	296-1979-5-ND	Darlington Transistor Array	16-Dip	.55	.44	.33
ULN2004AD	296-12965-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.53	.42	.32
ULN2004ADR	296-15067-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.53	.42	.32
ULN2004ADR	296-15067-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	355.00/2,500		
ULN2004AIDR	296-17022-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.64	.48	.36
ULN2004AIDR	296-17022-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	520.00/2,500		
ULN2004AIN	296-17051-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-Dip	.64	.48	.36
ULN2004AINSR	296-17023-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOP	.64	.48	.36
ULN2004AINSR	296-17023-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOP	426.00/2,000		
ULN2004AN	296-1980-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-Dip	.55	.44	.33
ULN2803AN	296-19046-5-ND	Darlington Transistor Array	18-Dip	1.35	1.13	.90
ULN2803ADWR	296-15777-1-ND	Darlington Transistor Array	18-SOIC	.88	.66	.50
ULN2803ADWR	296-15777-2-ND	Darlington Transistor Array	18-SOIC	586.00/2,000		
ULQ2003AD	296-22622-5-ND	High-Voltage, High-Current Darlington Transistor Array ***NEW!***	16-SOIC	1.02	.85	.68
ULQ2003ADR	296-11570-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	1.08	.90	.72
ULQ2003ADR	296-11570-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	1170.00/2,500		
ULQ2003AN	296-22623-5-ND	High-Voltage, High-Current Darlington Transistor Array ***NEW!***	16-Dip	.74	.56	.42
ULQ2003AQDRQ1	296-21568-1-ND	High-Voltage, High-Current, Darlington Transistor Array	16-SOIC	2.45	1.97	1.53
ULQ2003AQDRQ1	296-21568-2-ND	High-Voltage, High-Current, Darlington Transistor Array	16-SOIC	3432.50/2,500		
ULQ2003ATDQ1	296-14394-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	2.25	1.80	1.35
ULQ2003ATDRQ1	296-14395-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	2.38	1.90	1.43
ULQ2003ATDRQ1	296-14395-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	3040.00/2,500		
ULQ2004ADR	296-13535-1-ND	High-Voltage High-Current Darlington Transistor Array	16-SOIC	1.08	.90	.72
ULQ2004ADR	296-13535-2-ND	High-Voltage High-Current Darlington Transistor Array	16-SOIC	1170.00/2,500		
ULQ2004AN	296-15700-5-ND	High-Voltage High-Current Darlington Transistor Array	16-Dip	.74	.56	.42

MULTIPLEXERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
		Analog Multiplexers/Multipliers				
MPC506AP	MPC506AP-ND	Single Ended 16-Ch./Diff. 8-Ch. CMOS	28-Dip	9.03	—	—
MPC506AU	MPC506AU-ND	Single Ended 16-Ch./Diff. 8-Ch. CMOS	28-SOIC	9.03	—	—
MPC507AP	MPC507AP-ND	Single Ended 16-Ch./Diff. 8-Ch. CMOS	28-Dip	9.03	—	—
MPC507AU	MPC507AU-ND	Single Ended 16-Ch./Diff. 8-Ch. CMOS	28-SOIC	9.03	—	—
MPC508AP	MPC508AP-ND	8-Ch./4-Ch. CMOS Analog Multiplexer	16-Dip	5.32	—	—
MPC508AU	MPC508AU-ND	Single Ended 16-Ch./Diff. 8-Ch. CMOS	16-SOIC	5.32	—	—
MPC509AP	MPC509AP-ND	Single Ended 8-Ch./Diff. 4-Ch. CMOS	16-Dip	5.32	—	—
MPC509AU	MPC509AU-ND	Single Ended 8-Ch./Diff. 4-Ch. CMOS	16-SOIC	5.90	—	—
MPY634KP	MPY634KP-ND	Wideband Precision Analog Multiplier	14-Dip	17.63	—	—
MPY634KU	MPY634KU-ND	Wideband Precision Analog Multiplier	16-SOIC	19.73	—	—

OPTICAL SENSORS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
OPT101P-J	OPT101P-J-ND	Mono Photodiode Transimpedance Amp	8-SMD	5.50	—	—
OPT301M	OPT301M-ND	Integrated Photodiode and Amplifier	TO-99-8	58.53	—	—

POWER CONTROL/ MANAGEMENT PRODUCTS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
		CCFL Drivers				
UCC2972N	296-2256-5-ND	CCFL Driver Controller	8-Dip	5.36	4.29	3.62
UCC2973PW	296-13533-5-ND	BiCMOS CCFL Driver Controller	8-TSSOP	6.00	4.80	4.05
UCC3972N	296-6764-5-ND	BiCMOS CCFL Driver Controller	8-Dip	5.36	4.29	3.62
UCC3972PW	296-2257-5-ND	CCFL Driver Controller	8-TSSOP	5.36	4.29	3.62
UCC3973PW	296-6765-5-ND	BiCMOS CCFL Driver Controller	8-TSSOP	6.00	4.80	4.05
UCC3975PW	296-12613-5-ND	Multi-Topology Piezo Transformer Controller	8-TSSOP	5.36	4.29	3.62
UCC3976PW	296-12614-5-ND	Multi-Topology Piezo Transformer Controller	8-TSSOP	2.39	1.91	1.49
		Hot Plug				
HPC3130APBK	296-9510-ND	Hot Plug Controller	128-LQFP	15.59	14.04	12.45
HPC3130APEM	296-9511-ND	Hot Plug Controller	120-QFP	15.59	14.04	12.45
HPC3130APGE	296-9512-ND	Hot Plug Controller	144-LQFP	15.59	14.04	12.45
HPC3130PBK	296-9513-ND	Hot Plug Controller	128-LQFP	15.59	14.04	12.45
HPC3130PBM	296-9514-ND	Hot Plug Controller	120-QFP	15.59	14.04	12.45
TPS2340APFP	296-15639-ND	Dual Slot PCI Hot Plug Power Controller	80-HTQFP	12.25	11.03	9.78
TPS2342PFP	296-17347-ND	Dual Slot PCI-X 2.0 Hot Plug Power Controller	80-HTQFP	11.66	10.50	9.31
TPS2343DDP	296-18062-5-ND	Dual Slot PCI-X 2.0 Hot Plug Power Controller	80-HTSSOP	12.50	11.25	9.98
		Hot-Swap				
TPS2300IPW	296-2319-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	3.60	2.88	2.24
TPS2301EVM-153	296-10884-ND	Evaluation Module for TPS2301	—	50.00	—	—
TPS2301IPW	296-2320-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	3.60	2.88	2.24
TPS2310IPW	296-2321-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	3.60	2.88	2.24
TPS2311IPW	296-2322-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	3.60	2.88	2.24
TPS2320ID	296-6766-5-ND	Dual Hot-Swap Power Controller	16-SOIC	3.04	2.43	1.89
TPS2320IPW	296-2323-5-ND	Dual Hot-Swap Power Controller	16-TSSOP	3.04	2.43	1.89
TPS2321ID	296-6767-5-ND	Dual Hot-Swap Power Controller	16-SOIC	3.04	2.43	1.89
TPS2321IPW	296-2324-5-ND	Dual Hot-Swap Power Controller	16-TSSOP	3.04	2.43	1.89
TPS2330EVM-184	296-12356-ND	Evaluation Module for TPS2330-184	—	101.00	—	—
TPS2330EVM-185	296-12357-ND	Evaluation Module for TPS2330-185	—	101.00	—	—
TPS2330ID	296-6768-5-ND	Single Hot-Swap Power Controller	14-SOIC	2.81	2.25	1.75
TPS2330IPW	296-2325-5-ND	Hot-Swap Power Controller	14-TSSOP	2.81	2.25	1.75
TPS2331ID	296-6769-5-ND	Single Hot-Swap Power Controller	14-SOIC	2.81	2.25	1.75
TPS2331IPW	296-2326-5-ND	Hot-Swap Power Controller	14-TSSOP	2.81	2.25	1.75
TPS2350D	296-16959-5-ND	Hot-Swap Power Manager	14-SOIC	4.28	3.42	2.66
TPS2350PW	296-18941-5-ND	Hot-Swap Power Manager	14-TSSOP	4.28	3.42	2.66
TPS2390DGK	296-13511-5-ND	Simple Negative 48V Hot-Swap Controller	8-MSOP	2.25	1.80	1.40
TPS2390EVM	296-20591-ND	Evaluation Module for TPS2390	—	50.00	—	—
TPS2391DGK	296-13512-5-ND	Simple Negative 48V Hot-Swap Controller	8-MSOP	2.25	1.80	1.40
TPS2391EVM	296-20592-ND	Evaluation Module for TPS2391	—	50.00	—	—
TPS2392EVM	296-18942-ND	Evaluation Module for TPS2392	—	50.00	—	—
TPS2392PW	296-13668-5-ND	Full Featured Negative 48V Hot-Swap Power Manager	14-TSSOP	4.05	3.24	2.52
TPS2393APW	296-17247-ND	Full Featured Negative 48V Hot-Swap Power Manager	14-TSSOP	4.05	3.24	2.52
TPS2393DBT	296-17388-ND	Full Featured Negative 48V Hot-Swap Power Manager	44-TSSOP	4.05	3.24	2.52
TPS2393EVM	296-18943-ND	Evaluation Module for TPS2393	—	50.00	—	—
TPS2393PW	296-13669-5-ND	Full Featured Negative 48V Hot-Swap Power Manager	14-TSSOP	4.05	3.24	2.52
TPS2398DGK	296-15731-5-ND	Neg. 48V Hot-Swap Power Manager	8-MSOP	2.68	2.15	1.67
TPS2398EVM	296-18944-ND	Evaluation Module for TPS2398	—	50.00	—	—
TPS2399DGK	296-15732-5-ND	Neg. 48V Hot-Swap Power Manager	8-MSOP	2.68	2.15	1.67
TPS2399EVM	296-18945-ND	Evaluation Module for TPS2399	—	50.00	—	—
TPS2410PW	296-21612-5-ND	Full Featured N+1 and ORing Power Rail Controller	14-TSSOP	3.83	3.06	2.38
TPS2411PW	296-21613-5-ND	Full Featured N+1 and ORing Power Rail Controller	14-TSSOP	3.83	3.06	2.38
TPS2412PW	296-21614-5-ND	N+1 and ORing Power Rail Controller	8-TSSOP	2.70	2.16	1.68
TPS2413PW	296-21615-5-ND	N+1 and ORing Power Rail Controller	8-TSSOP	2.70	2.16	1.68
TPS2490DGS	296-17085-ND	Positive High-Voltage Power-Limiting Hot-Swap Controller	10-MSOP	3.83	3.06	2.38
TPS2490EVM-001	296-18946-ND	Evaluation Module for TPS2490-001	—	50.00	—	—
TPS2491DGS	296-16906-ND	Positive High-Voltage Power-Limiting Hot-Swap Controller	10-MSOP	3.83	3.06	2.38
TPS2491EVM-002	296-18947-ND	Evaluation Module for TPS2491-002	—	50.00	—	—
UC2914DW	296-12245-5-ND	5V to 35V Hot-Swap Power Manager	18-SOIC	10.30	8.24	6.96

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UC2914N	296-2502-5-ND	5V to 35V Hot-Swap Power Manager	18-Dip	8.58	7.73	6.85
UC3914DW	296-11347-5-ND	5V to 35V Hot-Swap Power Manager	18-SOIC	8.60	6.88	5.81
UC3914N	296-2327-5-ND	5V to 35V Hot-Swap Power Manager	18-Dip	8.60	6.88	5.81
UCC2912DP	296-16715-5-ND	Prog. Hot-Swap Power Manager	16-SOIC	5.40	4.32	3.65
UCC2912PWP	296-16716-ND	Prog. Hot-Swap Power Manager	24-TSSOP	5.40	4.32	3.65
UCC2913D	296-2328-5-ND	Neg. Volt. Hot-Swap Power Manager	8-SOIC	3.71	2.97	2.31
UCC2913N	296-12247-5-ND	Neg. Volt. Hot-Swap Power Manager	8-Dip	3.71	2.97	2.31
UCC2915DP	296-2329-5-ND	15V Hot-Swap Prog. Power Manager	16-SOIC	8.30	6.64	5.61
UCC2917D	296-2330-5-ND	Pos. Floating Hot-Swap Power Manager	16-SOIC	5.06	4.05	3.15
UCC2917N	296-12249-5-ND	Pos. Floating Hot-Swap Power Manager	16-Dip	5.06	4.05	3.15
UCC2919D	296-2331-5-ND	3V to 8V Hot-Swap Power Manager	16-SOIC	5.60	4.48	3.78
UCC2919PW	296-12251-5-ND	3V to 8V Hot-Swap Power Manager	16-TSSOP	5.60	4.48	3.78
UCC2921D	296-2332-5-ND	Latching Negative Floating Hot-Swap Power Manager	8-SOIC	4.16	3.33	2.59
UCC3912DP	296-2333-5-ND	Prog. Hot-Swap Power Manager	16-SOIC	5.18	4.14	3.22
UCC3912PWP	296-12031-5-ND	Prog. Hot-SwapPower Manager	24-TSSOP	5.18	4.14	3.22
UCC3913D	296-2335-5-ND	Negative Volt. Hot-Swap Power Manager	8-SOIC	3.38	2.70	2.10
UCC3913N	296-6770-5-ND	Negative Volt. Hot-Swap Power Manager	8-Dip	3.38	2.70	2.10
UCC3915DP	296-2336-5-ND	15V Programmable Hot-Swap Power Manager	16-SOIC	5.10	4.08	3.45
UCC3915N	296-6771-5-ND	7-15V Prog. Hot-Swap Power Manager	16-Dip	5.10	4.08	3.45
UCC3915PWP	296-6772-5-ND	7-15V Prog. Hot-Swap Power Manager	24-HTSSOP	5.10	4.08	3.45
UCC3917D	296-2337-5-ND	Positive Floating Hot-Swap Power Manager	16-SOIC	4.16	3.33	2.59
UCC3917EVM	296-13599-ND	Evaluation Module for UCC3917	—	50.00	—	—
UCC3917N	296-6774-5-ND	Positive Floating Hot-Swap Power Manager	16-Dip	4.16	3.33	2.59
UCC3918DP	296-2338-5-ND	Low On-Resistance Hot-Swap Power Manager	16-SOIC	5.29	4.23	3.29
UCC3918EVM	296-13600-ND	Evaluation Module for UCC3918	—	50.00	—	—
UCC3919D	296-2339-5-ND	3V to 8V Hot-Swap Power Manager	16-SOIC	5.29	4.23	3.29
UCC3919PW	296-6777-5-ND	Single Hot-Swap Power Controller	16-TSSOP	5.29	4.23	3.29
UCC3921D	296-2340-5-ND	Neg. Floating Hot-Swap Power Manager	8-SOIC	3.60	2.88	2.24
UCC3921N	296-6779-5-ND	Negative Latchable Floating Hot-Swap Power Manager	8-Dip	3.60	2.88	2.24
		Lighting and Display				
TPS6555XEVM-097	296-21168-ND	Evaluation Module for TPS6555X	—	50.00	—	—
TPS65552ADGQR	296-19363-1-ND	Integrated Photo Flash Charger and IGBT Driver	10-MSOP	2.25	1.80	1.40
TPS65552ADGQR	296-19363-2-ND	Integrated Photo Flash Charger and IGBT Driver	10-MSOP	3150.00/2,500		
TPS65552ARGTR	296-19364-1-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	2.25	1.80	1.40
TPS65552ARGTR	296-19364-2-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	3780.00/3,000		
TPS65560RGTR	296-19478-1-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	2.13	1.70	1.28
TPS65560RGTR	296-19478-2-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	3264.00/3,000		
TPS65561RGTR	296-21618-1-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	2.38	1.90	1.43
TPS65561RGTR	296-21618-2-ND	Integrated Photo Flash Charger and IGBT Driver	16-QFN	3648.00/3,000		
TPS65562RGTR	296-22478-1-ND	Integrated Photo Flash Charger and IGBT Driver ***NEW!***	16-QFN	2.38	1.90	1.43
TPS65562RGTR	296-22478-2-ND	Integrated Photo Flash Charger and IGBT Driver ***NEW!***	16-QFN	3648.00/3,000		
		Peripheral				
TPS2363PFB	296-19556-ND	PCIExpress Server Dual Slot Hot Plug Controller	48-TQFP	4.73	3.78	2.94
TPS2370D	296-15039-5-ND	Power Interface Switch	8-SOIC	3.83	3.06	2.38
TPS2370PW	296-15040-5-ND	Power Interface Switch	8-TSSOP	3.83	3.06	2.38
TPS2371D	296-15960-5-ND	Power Interface Switch for PoE	8-SOIC	3.83	3.06	2.38
TPS2371PW	296-15961-5-ND	Power Interface Switch for PoE	8-TSSOP	3.83	3.06	2.38
TPS2375D	296-17061-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	2.25	1.80	1.40
TPS2375EVM	296-17039-ND	Power-Over-Ethernet Powered Device Evaluation Module	—	50.00	—	—
TPS2375PW	296-17062-ND	IEEE 802.3af PoE Powered Controller	8-TSSOP	2.25	1.80	1.40
TPS2375PW-1	296-17903-5-ND	IEEE 802.3af PoE Powered Controller	8-TSSOP	2.25	1.80	1.40
TPS2376D	296-17063-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	2.25	1.80	1.40
TPS2376DDA-H	296-20785-5-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	2.81	2.25	1.75
TPS2376PW	296-17064-ND	IEEE 802.3af PoE Powered Controller	8-TSSOP	2.25	1.80	1.40
TPS2377D	296-17065-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	2.25	1.80	1.40
TPS2377D-1	296-17904-5-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	2.25	1.80	1.40
TPS2377PW	296-17066-ND	IEEE 802.3af PoE Powered Controller	8-TSSOP	2.25	1.80	1.40
TPS2384EVM	296-21149-ND	Evaluation Module for TPS2384	—	152.00	—	—
TPS2384EVM-152	296-21150-ND	Evaluation Module for TPS2384	—	305.00	—	—
TPS2384PAP	296-17831-ND	Quad Integrated Power Sourcing Equipment Power Manager	64-HTQFP	9.50	7.60	6.42
TPS2384PJD	296-19557-ND	Quad Integrated Power Sourcing Equipment Power Manager	64-TQFP	9.50	7.60	6.42
TPS23750EVM-107	296-21146-ND	Evaluation Module for TPS23750	—	50.00	—	—
TPS23750EVM-108	296-21147-ND	Evaluation Module for TPS23750	—	50.00	—	—
TPS23750PWPR	296-18669-1-ND	100V, IEEE 802.3af PD and DC/DC Controller	20-HTSSOP	3.38	2.70	2.10
TPS23750PWPR	296-18669-2-ND	100V, IEEE 802.3af PD and DC/DC Controller	20-HTSSOP	3826.00/2,000		
TPS23770PWPR	296-21148-1-ND	100V, Integrated IEEE 802.3af PD and DC/DC Controller	20-HTSSOP	3.38	2.70	2.10
TPS23770PWPR	296-21148-2-ND	100V, Integrated IEEE 802.3af PD and DC/DC Controller	20-HTSSOP	3826.00/2,000		
TPS65160APWPR	296-18305-1-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-TSSOP	3.26	2.61	2.03
TPS65160APWPR	296-18305-2-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-TSSOP	3698.00/2,000		
TPS65160PWPR	296-17905-1-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-TSSOP	3.15	2.52	1.96
TPS65160PWPR	296-17905-2-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-TSSOP	3570.00/2,000		
TPS65161APWPR	296-22678-1-ND	Bias Power Supply fot TV and Monitor TFT LCD Panels ***NEW!***	28-TSSOP	3.60	2.88	2.24
TPS65161APWPR	296-22678-2-ND	Bias Power Supply fot TV and Monitor TFT LCD Panels ***NEW!***	28-TSSOP	4080.00/2,000		
TPS65161PWPR	296-19673-1-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-TSSOP	3.15	2.52	1.96

(Continued)

POWER CONTROL/MGMT. PRODUCTS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS65161PWPR	296-19673-2-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-TSSOP	3570.00/2,000		
TPS65165RSBR	296-21429-1-ND	Compact LCD Bias IC	40-QFN	4.05	3.24	2.52
TPS65165RSBR	296-21429-2-ND	Compact LCD Bias IC	40-QFN	6804.00/3,000		
TPS65167ARHAR	296-22946-1-ND	Compact LCD Bias Supply for TFT-LCD TV Panels ***NEW!***	40-QFN	4.73	3.78	2.94
TPS65167ARHAR	296-22946-2-ND	Compact LCD Bias Supply for TFT-LCD TV Panels ***NEW!***	40-QFN	6615.00/2,500		
TPS65520ZVDR	296-18342-1-ND	Power Management IC for Digital Still Camera	113-BGA	7.90	6.32	5.34
TPS65520ZVDR	296-18342-2-ND	Power Management IC for Digital Still Camera	113-BGA	12245.00/2,500		
TPS75003EVM-092	296-21171-ND	Evaluation Module for TPS75003	—	25.50	—	—
TPS75003MRHLREP	296-22499-1-ND	Triple Supply Power Mgmt IC ***NEW!***	20-QFN	7.60	6.08	5.13
TPS75003MRHLREP	296-22499-2-ND	Triple Supply Power Mgmt IC ***NEW!***	20-QFN	14136.00/3,000		
TPS75003QRHLREP	296-22500-1-ND	Triple Supply Power Mgmt IC ***NEW!***	20-QFN	2.25	1.80	1.40
TPS75003QRHLREP	296-22500-2-ND	Triple Supply Power Mgmt IC ***NEW!***	20-QFN	3780.00/3,000		
TPS75003RHLR	296-17835-1-ND	Triple Supply Power Management IC	20-QFN	4.28	3.42	2.66
TPS75003RHLR	296-17835-2-ND	Triple Supply Power Management IC	20-QFN	7182.00/3,000		
TPS75003RHLT	296-19438-1-ND	Triple Supply Power Mgmt IC	20-QFN	4.73	3.78	2.94
TPS75003RHLT	296-19438-2-ND	Triple Supply Power Mgmt IC	20-QFN	698.25/250		
UC5601QP	296-11357-5-ND	18-Line 5V SE Terminator for SCSI and Fast SCSI	28-PLCC	8.26	6.61	5.58
UC5603DP	296-11359-5-ND	9-Line 5V SE Terminator for SCSI and Fast SCSI	16-SOIC	5.24	4.20	3.27
UCC3916DP	296-2255-5-ND	SCSI Termpower Manager	8-SOIC	3.83	3.06	2.38
UCC5510MWP	296-6730-5-ND	9-Line SCSI Multi Terminator	36-SOP	4.07	3.26	2.54
UCC5519PWP	296-15066-5-ND	9-Line SCSI Multi Terminator	28-HTSSOP	2.79	2.24	1.74
UCC5606DP	296-6731-5-ND	9-Line 3V-5V SCSI SE Terminator	16-SOIC	3.11	2.49	1.94
UCC5606PWP	296-6732-5-ND	9-Line 3V-5V SCSI SE Terminator	16-HTSSOP	3.11	2.49	1.94
UCC5614DP	296-6735-5-ND	9-Line 3V-5V SCSI SE Terminator	16-SOIC	3.11	2.49	1.94
UCC5614PWP	296-6736-5-ND	9-Line 3V-5V SCSI SE Terminator	24-HTSSOP	3.11	2.49	1.94
UCC5617DWP	296-6737-5-ND	18-Line 3V-5V SCSI SE Terminator	28-SOIC	4.70	3.77	2.93
UCC5618DWP	296-6738-5-ND	18-Line 3V-5V SCSI SE Terminator	28-SOIC	4.70	3.77	2.93
UCC5618QP	296-6739-5-ND	18-Line 3V-5V SCSI SE Terminator	28-PLCC	5.24	4.20	3.27
UCC5619MWP	296-6740-5-ND	27-Line 5V SE Terminator for Fast/Ultra SCSI	36-SOP	5.70	4.56	3.85
UCC5620MWP	296-6743-5-ND	27-Line 5V SE Terminator	48-SOP	5.70	4.56	3.85
UCC5621MWP	296-6744-5-ND	27-Line 5V SE Terminator	44-SOP	5.70	4.56	3.85
UCC5622MWP	296-6746-5-ND	27-Line 5V SE Terminator for Fast/Ultra SCSI	44-SOP	5.70	4.56	3.85
UCC5628FQP	296-6747-ND	14-Line 3V-5V SCSI Multi Terminator	48-LQFP	5.36	4.29	3.34
UCC5629FQP	296-6748-ND	14-Line 3V-5V SCSI Multi Terminator	48-LQFP	5.36	4.29	3.34
UCC5630AFQP	296-6749-ND	9-Line 3V-5V SCSI Multi Terminator	48-LQFP	5.56	4.45	3.46
UCC5630AMWP	296-6750-5-ND	9-Line 3V-5V SCSI Multi Terminator	36-SOP	4.28	3.42	2.66
UCC5631AFQP	296-6751-ND	9-Line 3V-5V SCSI Multi Terminator	48-LQFP	5.56	4.45	3.46
UCC5631AMWP	296-6752-5-ND	9-Line 3V-5V SCSI Multi Terminator	36-SOP	4.28	3.42	2.66
UCC5638EVM	296-13603-ND	Evaluation Module for UCC5638	—	49.38	—	—
UCC5638FQP	296-6753-ND	15-Line 3V-5V SCSI Multi Terminator	48-LQFP	5.24	4.20	3.27
UCC5639FQP	296-6754-ND	15-Line 3V-5V SCSI Multi Terminator	48-LQFP	5.36	4.29	3.34
UCC5640EVM	296-13604-ND	Evaluation Module for UCC5640	—	49.38	—	—
UCC5640PW24	296-6755-5-ND	9-Line 3V-5V LVD SCSI Terminator	24-TSSOP	2.99	2.40	1.87
UCC5640PW28	296-6756-5-ND	9-Line 3V-5V LVD SCSI Terminator	28-TSSOP	2.99	2.40	1.87
UCC5670MWP	296-12964-5-ND	9-Line Multimode SCSI Terminator	36-SSOP	3.96	3.17	2.47
UCC5672MWP	296-6760-5-ND	9-Line 3V-5V SCSI Multi Terminator	36-SOP	4.28	3.42	2.66
UCC5672PWP	296-6761-5-ND	9-Line 3V-5V SCSI Multi Terminator	28-HTSSOP	4.28	3.42	2.66
UCC5673MWP	296-6762-5-ND	9-Line 3V-5V SCSI Multi Terminator	36-SOP	4.28	3.42	2.66
UCC5673PWP	296-6763-5-ND	9-Line 3V-5V SCSI Multi Terminator	28-HTSSOP	4.28	3.42	2.66
UCC5680PW24	296-11565-5-ND	9-Line 3V-5V LVD Terminator for SCSI - Ultra3 SCSI	24-TSSOP	2.99	2.40	1.87
UCC5680PW28	296-11566-5-ND	9-Line 3V-5V LVD Terminator for SCSI - Ultra3 SCSI	28-TSSOP	2.99	2.40	1.87
UCC5686PM	296-11567-ND	27-Line 3V-5V LVD Terminator for Wide Ultra2/Ultra3 SCSI	64-QFP	6.66	5.33	4.50
UCC5687PM	296-11568-ND	27-Line 3V-5V LVD Terminator for Wide Ultra2/Ultra3 SCSI	64-QFP	6.66	5.33	4.50
UCC5696PN	296-14234-5-ND	27-Line LVD SCSI Terminator	80-LQFP	11.08	9.98	8.85

Power + Array

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TPIC44H01DA	296-1952-5-ND	4-Channel High-Side Driver	32-TSSOP	3.83	3.06	2.38

Power + Logic

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TPIC6A259DW	296-9004-5-ND	Power 8-Bit Addressable Latch	24-SOIC	3.31	2.65	2.06
TPIC6A259NE	296-9005-5-ND	Power 8-Bit Addressable Latch	20-Dip	3.31	2.65	2.06
TPIC6A595DW	296-9006-5-ND	Power 8-Bit Shift Register	24-SOIC	2.59	2.07	1.61
TPIC6A595NE	296-9007-5-ND	Power 8-Bit Shift Register	20-Dip	2.70	2.16	1.68
TPIC6A596DW	296-9008-5-ND	Power 8-Bit Shift Register	24-SOIC	2.59	2.07	1.61
TPIC6A596NE	296-9009-5-ND	Power 8-Bit Shift Register	20-Dip	2.70	2.16	1.68
TPIC6B259DW	296-9010-5-ND	Power 8-Bit Addressable Latch	20-SOIC	1.70	1.36	1.02
TPIC6B259N	296-9011-5-ND	Power 8-Bit Addressable Latch	20-Dip	1.70	1.36	1.02
TPIC6B273DW	296-1350-5-ND	Power Octal D-Type Switch	20-SOIC	1.70	1.36	1.02
TPIC6B273DWR	296-1350-1-ND	Power Octal D-Type Latch	20-SOIC	1.70	1.36	1.02
TPIC6B273DWR	296-1350-2-ND	Power Octal D-Type Latch	20-SOIC	1768.00/2,000		
TPIC6B273N	296-9012-5-ND	Power Octal D-Type Latch	20-Dip	1.70	1.36	1.02
TPIC6B595DW	296-1351-5-ND	Power 8-Bit Shift Register	20-SOIC	1.26	1.05	.84
TPIC6B595DWG4	296-19555-5-ND	Power 8-Bit Shift Register	20-SOIC	1.26	1.05	.84
TPIC6B595DWR	296-1351-1-ND	Power 8-Bit Shift Register	20-SOIC	1.41	1.18	.94
TPIC6B595DWR	296-1351-2-ND	Power 8-Bit Shift Register	20-SOIC	1250.00/2,000		
TPIC6B595N	296-1956-5-ND	Power 8-Bit Shift Register	20-Dip	1.41	1.18	.94
TPIC6B596DW	296-9013-5-ND	Power 8-Bit Shift Register	20-SOIC	1.26	1.05	.84
TPIC6C595D	296-2019-5-ND	Power Logic 8-Bit Shift Register	16-SOIC	1.11	.93	.74
TPIC6C595DRG4	296-22064-1-ND	Power Logic 8-Bit Shift Register ***NEW!***	16-SOIC	1.17	.98	.78
TPIC6C595DRG4	296-22064-2-ND	Power Logic 8-Bit Shift Register ***NEW!***	16-SOIC	1267.50/2,500		
TPIC6C595N	296-2020-5-ND	Power Logic 8-Bit Shift Register	16-Dip	1.17	.98	.78
TPIC6C595PW	296-21143-5-ND	Power Logic 8-Bit Shift Register	16-TSSOP	1.11	.93	.74
TPIC6C596D	296-9014-5-ND	Power Logic 8-Bit Shift Register	16-SOIC	.99	.83	.66
TPIC6C596DR	296-19451-1-ND	Power Logic 8-Bit Shift Register	16-SOIC	1.05	.88	.70
TPIC6C596DR	296-19451-2-ND	Power Logic 8-Bit Shift Register	16-SOIC	1137.50/2,500		
TPIC6C596DRG4	296-22435-1-ND	Power Logic 8-Bit Shift Register ***NEW!***	16-SOIC	1.05	.88	.70
TPIC6C596DRG4	296-22435-2-ND	Power Logic 8-Bit Shift Register ***NEW!***	16-SOIC	1137.50/2,500		
TPIC6C596N	296-9015-5-ND	Power Logic 8-Bit Shift Register	16-Dip	1.05	.88	.70
TPIC6C596PW	296-19605-5-ND	Power Logic 8-Bit Shift Register	16-TSSOP	1.02	.85	.68
TPIC43T01DA	296-10866-5-ND	Three-Phase Brushless Motor RPM Controller	38-TSSOP	5.06	4.05	3.15
TPIC44L01DB	296-10867-5-ND	4-Channel Serial/Parallel Low-Side Pre-FET Driver	24-SSOP	2.00	1.60	1.20
TPIC44L02DB	296-10868-5-ND	4-Channel Serial/Parallel Low-Side Pre-FET Driver	24-SSOP	2.00	1.60	1.20
TPIC46L01DB	296-10869-5-ND	6-Channel Serial/Parallel Low-Side Pre-FET Driver	28-SSOP	2.25	1.80	1.40
TPIC46L02DB	296-10870-5-ND	6-Channel Serial/Parallel Low-Side Pre-FET Driver	28-SSOP	2.25	1.80	1.40
TPIC46L03DB	296-10871-5-ND	6-Channel Serial/Parallel Low-Side Pre-FET Driver	28-SSOP	2.25	1.80	1.40
TPIC1021AQDRQ1	296-22939-1-ND	LIN Physical Interface ***NEW!***	8-SOIC	1.38	1.10	.83
TPIC1021AQDRQ1	296-22939-2-ND	LIN Physical Interface ***NEW!***	8-SOIC	1760.00/2,500		
TPIC1021DR	296-17542-1-ND	LIN Physical Interface	8-SOIC	1.38	1.10	.83
TPIC1021DR	296-17542-2-ND	LIN Physical Interface	8-SOIC	1760.00/2,500		
TPIC2101D	296-10860-5-ND	Single Phase Low-Side Pre-FET Driver	14-SOIC	2.48	1.98	1.54
TPIC2101N	296-10861-5-ND	Single Phase Low-Side Pre-FET Driver	14-Dip	2.48	1.98	1.54
TPIC2603DW	296-10863-5-ND	6-Ch. Serial Interface Low-Side Driver	24-SOIC	5.29	4.23	3.29
TPIC2603NE	296-10864-5-ND	6-Ch. Serial Interface Low-Side Driver	20-Dip	5.29	4.23	3.29
TPIC6259DW	296-9000-5-ND	Power 8-Bit Addressable Latch	20-SOIC	2.70	2.16	1.68
TPIC6259N	296-9001-5-ND	Power 8-Bit Addressable Latch	20-Dip	2.70	2.16	1.68
TPIC6273DW	296-9002-5-ND	Power Octal D-Type Latch	20-SOIC	2.70	2.16	1.68
TPIC6273N	296-1953-5-ND	Power Octal D-Type Latch	20-Dip	2.70	2.16	1.68
TPIC6595DW	296-1349-5-ND	Power 8-Bit Shift Register	20-SOIC	2.41	1.93	1.50
TPIC6595DWR	296-1349-1-ND	Power 8-Bit Shift Register	20-SOIC	2.50	2.00	1.56
TPIC6595DWR	296-1349-2-ND	Power 8-Bit Shift Register	20-SOIC	2830.00/2,000		
TPIC6595N	296-1954-5-ND	Power 8-Bit Shift Register	20-Dip	2.50	2.00	1.56
TPIC6596DW	296-9003-5-ND	Power 8-Bit Shift Register	20-SOIC	2.41	1.93	1.50
TPIC9201N	296-19606-5-ND	Microcontroller Power Supply and Multiple Low Side Driver	20-Dip	1.44	1.20	.96
TPIC9201PWPR	296-21144-1-ND	Microcontroller Power Supply and Multiple Low Side Driver	20-HTSSOP	1.44	1.20	.96
TPIC9201PWPR	296-21144-2-ND	Microcontroller Power Supply and Multiple Low Side Driver	20-HTSSOP	1276.00/2,000		
TPIC9202PWPR	296-21145-1-ND	Microcontroller Power Supply and Multiple Low Side Driver	20-HTSSOP	1.44	1.20	.96
TPIC9202PWPR	296-21145-2-ND	Microcontroller Power Supply and Multiple Low Side Driver	20-HTSSOP	1276.00/2,000		

SPECIALIZED INTEGRATED CIRCUITS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PGA309AIPWT	296-16726-1-ND	Smart Programmable Sensor	16-TSSOP	6.50	5.20	4.39
PGA309AIPWT	296-16726-2-ND	Smart Programmable Sensor	16-TSSOP	1056.25/250		
PGA309EVM-EU	296-18515-ND	Evaluation Module for PGA309-EU	—	203.00	—	—
PGA309EVM-US	296-18516-ND	Evaluation Module for PGA309-US	—	203.00	—	—
TL851CDR	296-18895-1-ND	Sonar Ranging Control	16-SOIC	4.32	3.46	2.69
TL851CDR	296-18895-2-ND	Sonar Ranging Control	16-SOIC	6047.50/2,500		
TL851CN	296-19329-5-ND	Sonar Ranging Control	16-Dip	4.32	3.46	2.69
TL852CDR	296-17139-1-ND	Sonar Ranging Receiver	16-SOIC	4.32	3.46	2.69
TL852CDR	296-17139-2-ND	Sonar Ranging Receiver	16-SOIC	6047.50/2,500		
TL852CN	296-19330-5-ND	Sonar Ranging Receiver	16-Dip	4.32	3.46	2.69
TPIC8101DWR	296-15132-1-ND	Knock Sensor Interface	20-SOIC	5.58	4.47	3.48
TPIC8101DWR	296-15132-2-ND	Knock Sensor Interface	20-SOIC	6324.00/2,000		
UC2950T	296-13022-5-ND	Half-Bridge Bipolar Switch	TO-220-5	5.60	4.48	3.78
UC3717AN	296-11258-5-ND	Stepper Motor Drive Circuit	16-Dip	6.60	5.28	4.46
UC3770AN	296-11259-5-ND	HP Stepper Motor Drive Circuit	16-Dip	5.56	4.45	3.46
UC3770BN	296-11260-5-ND	HP Stepper Motor Drive Circuit	16-Dip	5.04	4.04	3.41
UC3871DW	296-11326-5-ND	Resonant Fluorescent Lamp Driver	18-SOIC	8.00	6.40	5.40
UC3871N	296-11327-5-ND	Resonant Fluorescent Lamp Driver	18-Dip	8.00	6.40	5.40
UC3872DW	296-11328-5-ND	Resonant Lamp Ballast Controller	16-SOIC	6.00	4.80	4.05
UC3872M	296-11329-5-ND	Resonant Lamp Ballast Controller	16-HTSSOP	6.00	4.80	4.05
UC3872N	296-11330-5-ND	Resonant Lamp Ballast Controller	20-Dip	6.00	4.80	4.05
UCC2305DW	296-13023-5-ND	HID Lamp Controller	28-SOIC	9.83	8.85	7.85
UCC2305N	296-13633-5-ND	HID Lamp Controller	28-Dip	11.41	10.28	9.12
UCC3974PW	296-12405-5-ND	Dual Cold Cathode Fluorescent Lamp Controller	16-TSSOP	7.43	5.94	4.62
UCC3977PW	296-12615-5-ND	Dual Transformer Controller	8-TSSOP	2.39	1.91	1.49

POWER SUPPLY PRODUCTS

Audio Differential Line Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DRV134PA	DRV134PA-ND	Audio Balanced Line Driver with Differential Output	8-Dip	4.39	—	—
DRV134UA	DRV134UA-ND	Audio Balanced Line Driver with Differential Output	16-SOIC	4.39	—	—
DRV135UA	DRV135UA-ND	Audio Balanced Line Driver with Differential Output	8-SOIC	4.39	—	—

Battery Management

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
BQ20Z70PW	296-19864-5-ND	SBS 1.1-Compliant Gas Guage for use with BQ29330	20-TSSOP	4.94	3.96	3.34
BQ20Z70PW-V150	296-22552-5-ND	SBS 1.1-Compliant Gas Gauge Enabled ***NEW!***	20-TSSOP	6.30	5.04	4.26
BQ20Z75DBT	296-22553-5-ND	SBS 1.1-Compliant Gas Gauge and Protection Enabled IC ***NEW!***	38-TSSOP	8.40	6.72	5.67
BQ20Z80ADBT-V110	296-22554-5-ND	SBS 1.1-Compliant Gas Gauge Enabled ***NEW!***	38-TSSOP	9.20	7.36	6.21
BQ20Z80DBT	296-17638-5-ND	Advanced Gas Gauge	38-TSSOP	9.26	7.41	6.26
BQ20Z80DBTR-V102	296-19275-1-ND	SBS-Compliant Gas Gauge	38-TSSOP	9.20	7.36	6.21
BQ20Z80DBTR-V102	296-19275-2-ND	SBS-Compliant Gas Gauge	38-TSSOP	11500.00/2,000		
BQ20Z80DBTV101	296-18681-1-ND	Advanced Gas Gauge	38-TSSOP	9.26	7.41	—
BQ20Z80DBTV101	296-18681-2-ND	Advanced Gas Gauge	38-TSSOP	312.55/50		
BQ20Z80EVM-001	296-20821-ND	Evaluation Module for BQ20Z80	—	101.00	—	—
BQMTESTER	296-19619-ND	Multi-Channel Test and Program Board	—	305.00	—	—
BQ20Z70PWR-V110	296-21216-1-ND	SBS 1.1-Compliant Gas Gauge	20-TSSOP	6.30	5.04	4.26
BQ20Z70PWR-V110	296-21216-2-ND	SBS 1.1-Compliant Gas Gauge	20-TSSOP	7876.00/2,000		
BQ20Z90DBT	296-19865-1-ND	SBS 1.1-Compliant Gas Guage for use with BQ29330	30-TSSOP	6.60	5.28	—
BQ20Z90DBT-V110	296-21371-5-ND	SBS 1.1-Compliant Gas Gauge for use with BQ29330	30-TSSOP	6.60	5.28	4.46

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ20Z90DBT-V150	296-22555-5-ND	SBS 1.1-Compliant Gas Gauge for use with BQ29330 ***NEW!***	30-TSSOP	6.60	5.28	4.46
BQ20Z90EVM-001	296-22907-ND	Eval. Module for BQ20Z90/29330/29412 ***NEW!***	—	101.00	—	—
BQ20Z95DBT	296-22543-5-ND	SBS 1.1-Compliant Gas Gauge and Protection Enabled ***NEW!***	44-TSSOP	9.20	7.36	6.21
BQ2000PN-B5	296-9313-5-ND	Multichemistry Charge Management	8-Dip	3.38	2.70	2.10
BQ2000PW	296-12359-5-ND	Multichemistry Switchmode Charge Management	8-TSSOP	3.38	2.70	2.10
BQ2000SN-B5	296-9314-5-ND	Multichemistry Charge Management	8-SOIC	3.38	2.70	2.10
BQ2000TPN-B5	296-9315-5-ND	Multichemistry Charge Management	8-Dip	3.38	2.70	2.10
BQ2000TPW	296-12360-5-ND	Multichemistry Switchmode Charge Management	8-TSSOP	3.38	2.70	2.10
BQ2000TSN-B5	296-9316-5-ND	Multichemistry Charge Management	8-SOIC	3.38	2.70	2.10
DV2000S1	296-9486-ND	Evaluation Module for BQ2000	—	101.00	—	—
DV2000TS1	296-9487-ND	Evaluation Module for BQ2000T	—	101.00	—	—
BQ2002CPN	296-9317-5-ND	Fast Charge Controller	8-Dip	2.13	1.70	1.28
BQ2002CSN	296-9318-5-ND	Fast Charge Controller	8-SOIC	2.13	1.70	1.28
BQ2002DSN	296-9319-5-ND	Fast Charge Controller	8-SOIC	2.13	1.70	1.28
BQ2002EPN	296-9320-5-ND	Fast Charge Controller	8-Dip	2.13	1.70	1.28
BQ2002ESN	296-9321-5-ND	Fast Charge Controller	8-SOIC	2.13	1.70	1.28
BQ2002FPN	296-9322-5-ND	Fast Charge Controller	8-Dip	2.13	1.70	1.28
BQ2002FSN	296-9323-5-ND	Fast Charge Controller	8-SOIC	2.13	1.70	1.28
BQ2002GPN	296-9324-5-ND	Fast Charge Controller	8-Dip	2.13	1.70	1.28
BQ2002GSN	296-9325-5-ND	Fast Charge Controller	8-SOIC	2.13	1.70	1.28
BQ2002PN	296-9326-5-ND	Fast Charge Controller	8-Dip	2.13	1.70	1.28
BQ2002SN	296-9327-5-ND	Fast Charge Controller	8-SOIC	2.13	1.70	1.28
BQ2002TPN	296-9328-5-ND	Fast Charge Controller	8-Dip	2.13	1.70	1.28
BQ2002TSN	296-9329-5-ND	Fast Charge Controller	8-SOIC	2.13	1.70	1.28
DV2002L2	296-9488-ND	Evaluation Module for BQ2002	—	101.00	—	—
DV2002TL2	296-9489-ND	Evaluation Module for BQ2002T	—	101.00	—	—
BQ2003PN	296-9330-5-ND	Fast Charge Controller	16-Dip	4.95	3.96	3.08
BQ2003S	296-9331-5-ND	Fast Charge Controller	16-SOIC	4.95	3.96	3.08
DV2003L1	296-9490-ND	Evaluation Module for BQ2003	—	101.00	—	—
DV2003S1	296-9491-ND	Evaluation Module for BQ2003	—	101.00	—	—
DV2003S2	296-9492-ND	Evaluation Module for BQ2003	—	101.00	—	—
BQ2004EPN	296-9332-5-ND	Fast Charge Controller	16-Dip	4.50	3.60	2.80
BQ2004ESN	296-9333-5-ND	Fast Charge Controller	16-SOIC	4.50	3.60	2.80
BQ2004HPN	296-9334-5-ND	Fast Charge Controller	16-Dip	4.50	3.60	2.80
BQ2004HSN	296-9335-5-ND	Fast Charge Controller	16-SOIC	4.50	3.60	2.80
BQ2004PN	296-9336-5-ND	Fast Charge Controller	16-Dip	4.50	3.60	2.80
BQ2004SN	296-9337-5-ND	Fast Charge Controller	16-SOIC	4.50	3.60	2.80
DV2004ES1	296-9493-ND	Evaluation Module for BQ2004E	—	101.00	—	—
DV2004HS1	296-9494-ND	Evaluation Module for BQ2004H	—	101.00	—	—
DV2004L1	296-9495-ND	Evaluation Module for BQ2004	—	101.00	—	—
DV2004S1	296-9496-ND	Evaluation Module for BQ2004	—	101.00	—	—
BQ2005S	296-9338-5-ND	Dual Fast Charge Controller	20-SOIC	4.95	3.96	3.08
BQ2010SN-D107	296-2218-5-ND	Battery Gas Gauge	16-SOIC	7.70	6.16	5.20
BQ2011SN-D118	296-9340-5-ND	Battery Gas Gauge	16-SOIC	7.50	6.00	5.07
EV2011	296-9506-ND	Evaluation Module for BQ2011	—	101.00	—	—
BQ2012SN-D107	296-9341-5-ND	Battery Gas Gauge	16-SOIC	7.70	6.16	5.20
BQ2013HEVM-001	296-9342-ND	Evaluation Module for BQ2013	—	101.00	—	—
BQ2013HSN-A514	296-9343-5-ND	Battery Gas Gauge	16-SOIC	7.40	5.92	5.00
BQ2014HEVM-001	296-9344-ND	Evaluation Module for BQ2014	—	101.00	—	—
BQ2014HSN	296-9345-5-ND	Battery Gas Gauge	16-SOIC	7.40	5.92	5.00
BQ2014SN-D120	296-2220-5-ND	Battery Gas Gauge	16-SOIC	7.70	6.16	5.20
EV2014	296-9507-ND	Evaluation Module for BQ2014	—	101.00	—	—
BQ2018EVM-001	296-9346-ND	Evaluation Module for BQ2018	—	101.00	—	—
BQ2018SN-E1	296-2221-5-ND	Battery Power Monitor	8-SOIC	4.28	3.42	2.66
BQ2018TS-E1	296-2222-5-ND	Battery Power Monitor	8-TSSOP	4.28	3.42	2.66
BQ2019EVM-001	296-9347-ND	Evaluation Module for BQ2019	—	101.00	—	—
BQ2019PW	296-9348-5-ND	Advanced Battery Monitoring	8-TSSOP	4.39	3.51	2.73
BQ2022ADBZR	296-20742-1-ND	1K-Bit Serial EPROM with SDQ	SOT-23	2.81	2.25	1.75
BQ2022ADBZR	296-20742-2-ND	1K-Bit Serial EPROM with SDQ	SOT-23	4725.00/3,000		
BQ2022ALPR	296-21327-1-ND	1K-Bit Serial EPROM with SDQ	TO-92	2.81	2.25	1.75
BQ2022ALPR	296-21327-3-ND	1K-Bit Serial EPROM with SDQ	TO-92	3188.00/2,000		
BQ2022DBZR	296-16825-1-ND	1K-Bit Serial EPROM with SDQ	SOT-23	2.81	2.25	1.75
BQ2022DBZR	296-16825-2-ND	1K-Bit Serial EPROM with SDQ	SOT-23	4725.00/3,000		
BQ2022LPR	296-19767-1-ND	1K-Bit Serial EPROM with SDQ	TO-92	2.81	2.25	1.75
BQ2022LPR	296-19767-3-ND	1K-Bit Serial EPROM with SDQ	TO-92	3188.00/2,000		
BQ2023EVM-001	296-19923-ND	Evaluation Module for BQ2023	—	101.00	—	—
BQ2023EVM-002	296-13541-ND	Evaluation Module for BQ2023	—	101.00	—	—
BQ2023PW	296-11861-5-ND	Battery Power Monitor	8-TSSOP	4.50	3.60	2.80
BQ2024DBZR	296-21948-1-ND	1.5K-Bit Serial EPROM with SDQ	SOT-23	2.81	2.25	1.75
BQ2024DBZR	296-21948-2-ND	1.5K-Bit Serial EPROM with SDQ	SOT-23	4725.00/3,000		
BQ2031PN-A5	296-9349-5-ND	Lead Acid Fast Charge	16-Dip	5.60	4.48	3.78
BQ2031SN-A5	296-9350-5-ND	Lead Acid Fast Charge	16-SOIC	5.60	4.48	3.78
DV2031S2	296-19950-ND	Evaluation Module for BQ2031	—	101.00	—	—
BQ2040EVM-001	296-9351-ND	Evaluation Module for BQ2040	—	101.00	—	—
BQ2040SN-C408	296-2223-5-ND	Battery Gas Gauge	16-SOIC	7.70	6.16	5.20
BQ2040SN-D111	296-13773-5-ND	Gas Gauge IC with SMBus Interface	16-SOIC	7.70	6.16	5.20
BQ2050HEVM-002	296-9352-ND	Evaluation Module for BQ2050H	—	101.00	—	—
BQ2050HSN-A508	296-9353-5-ND	Lithium-Ion Gas Gauge	16-SOIC	7.40	5.92	5.00
BQ2050SN-D119	296-2225-5-ND	Lithium-Ion Power Gauge	16-SOIC	7.70	6.16	5.20
BQ2052EVM-001	296-9354-ND	Evaluation Module for BQ2052	—	101.00	—	—
BQ2052SN-A515	296-9355-5-ND	Primary Lithium Gas Gauge	16-SOIC	8.00	6.40	5.40
BQ2054PN	296-9356-5-ND	Lithium-Ion Fast Charge	16-Dip	5.18	4.14	3.22
BQ2054SN	296-9357-5-ND	Lithium-Ion Fast Charge	16-SOIC	5.18	4.14	3.22
DV2054S2	296-9499-ND	Evaluation Module for BQ2054	—	101.00	—	—
BQ2057CDGK	296-11991-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	1.68	1.34	1.01
BQ2057CDGKR	296-11991-1-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	1.68	1.34	1.01
BQ2057CDGKR	296-11991-2-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2145.00/2,500		
BQ2057CSN	296-9358-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-SOIC	1.68	1.34	1.01
BQ2057CTS	296-9359-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-TSSOP	1.68	1.34	1.01
DV2057C	296-9501-ND	Evaluation Module for BQ2057C	—	101.00	—	—
BQ2057DGK	296-11992-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	1.68	1.34	1.01
BQ2057DGKR	296-11992-1-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	1.68	1.34	1.01
BQ2057DGKR	296-11992-2-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2145.00/2,500		
BQ2057PDGK	296-15351-5-ND	Li-Ion LDO Linear Charge Mgmt	8-MSOP	2.57	2.06	1.60
BQ2057SN	296-9360-5-ND	Li-Ion LDO Linear Charge Mgmt	8-SOIC	1.68	1.34	1.01
BQ2057TS	296-9361-5-ND	Li-Ion LDO Linear Charge Mgmt	8-TSSOP	1.68	1.34	1.01
BQ2057TSN	296-9362-5-ND	Li-Ion LDO Linear Charge Mgmt	8-SOIC	1.90	1.52	1.14
BQ2057TTS	296-9363-5-ND	Li-Ion LDO Linear Charge Mgmt	8-TSSOP	1.90	1.52	1.14
DV2057T	296-9502-ND	Evaluation Module for BQ2057T	—	101.00	—	—
BQ2057WSN	296-9364-5-ND	Li-Ion LDO Linear Charge Mgmt	8-SOIC	1.90	1.52	1.14
BQ2057WTS	296-9365-5-ND	Li-Ion LDO Linear Charge Mgmt	8-TSSOP	1.90	1.52	1.14
DV2057	296-9500-ND	Evaluation Module for BQ2057	—	101.00	—	—
DV2057W	296-9503-ND	Evaluation Module for BQ2057W	—	101.00	—	—
BQ2060A-E619DBQ	296-18388-5-ND	SBS 1.1 Compliant Gas Gauge IC	28-QSOP	6.00	4.80	4.05
BQ2060AEVM-001	296-18389-ND	Evaluation Module for BQ2060A-001	—	101.00	—	—
BQ2060AEVM-002	296-18390-ND	Evaluation Module for BQ2060A-002	—	101.00	—	—
BQ2060SS-E411	296-12268-5-ND	Multi-Chemistry SBS v1.1 Gas Gauge	28-SSOP	7.74	6.20	5.23
BQ2063DBQ	296-12199-5-ND	Battery Gas Gauge	28-QSOP	7.80	6.24	5.27
BQ2083DBT	296-13030-5-ND	SBS Compliant Gas Gauge for use with BQ29311	38-TSSOP	8.92	7.14	6.03
BQ2083DBT-V1P3	296-17237-ND	SBS Compliant Gas Gauge for use with BQ29311	38-TSSOP	9.00	7.20	6.08
BQ2083EVM-001	296-19924-ND	Evaluation Module for BQ2083	—	101.00	—	—
BQ2084DBT	296-15343-5-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	38-TSSOP	9.36	7.49	6.32
BQ2084DBT-V150	296-22085-5-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312 ***NEW!***	38-TSSOP	8.00	6.40	5.40
BQ2084DBTR-V140	296-19863-1-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	38-TSSOP	9.36	7.49	6.32
BQ2084DBTR-V140	296-19863-2-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	38-TSSOP	11420.00/2,000		
BQ2084DBTR-V143	296-21297-1-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	38-TSSOP	8.00	6.40	5.40
BQ2084DBTR-V143	296-21297-2-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	38-TSSOP	10000.00/2,000		
BQ2084EVM-001	296-18391-ND	Evaluation Module for BQ2084-001	—	101.00	—	—
BQ2084RTTR-V140	296-19398-1-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	36-QFN	9.36	7.49	6.32
BQ2084RTTR-V140	296-19398-2-ND	SBS v1.1 Compliant Gas Gauge for use with BQ29312	36-QFN	17409.00/3,000		
BQ2085DBT	296-14071-5-ND	SBS Compliant Battery Gas Gauge	38-TSSOP	9.36	7.49	6.32
BQ2085DBT-V1P3	296-17238-ND	SBS Compliant Battery Gas Gauge	38-TSSOP	9.20	7.36	6.21
BQ2085DBTR	296-15962-1-ND	Gas Gauge for BQ29311	38-TSSOP	9.36	7.49	6.32
BQ2085DBTR	296-15962-2-ND	Gas Gauge for BQ29311	38-TSSOP	11700.00/2,000		
BQ2201PN	296-9369-5-ND	SRAM Nonvolatile Controller IC	8-Dip	4.16	3.33	2.59
BQ2201SN	296-9370-5-ND	SRAM Nonvolatile Controller IC	8-SOIC	4.16	3.33	2.59
EV2200	296-9509-ND	Evaluation Module for BQ20XX	—	50.00	—	—
BQ2204APN	296-9375-5-ND	x4 SRAM Nonvolatile Controller	16-Dip	5.18	4.14	3.22
BQ2204ASN	296-9376-5-ND	x4 SRAM Nonvolatile Controller	16-SOIC	5.18	4.14	3.22
BQ2205LYPW	296-16973-5-ND	Power Monitoring and Switching Controller for 3.3V SRAM	16-TSSOP	3.94	3.15	2.45
BQ2954PN	296-9387-5-ND	Lithium-Ion Fast Charger	16-Dip	4.50	3.60	2.80
BQ2954SN	296-9388-5-ND	Lithium-Ion Fast Charger	16-SOIC	4.50	3.60	2.80
DV2954S1H	296-9504-ND	Evaluation Module for BQ2954	—	101.00	—	—
DV2954S1L	296-9505-ND	Evaluation Module for BQ2954	—	101.00	—	—
BQ4010LYMA-70N	296-21698-5-ND	8kx8 Nonvolatile SRAM, 10%, 70nS	28-Dip	9.10	8.19	7.27
BQ4010MA-85	296-9389-5-ND	8kx8 Nonvolatile SRAM, 10%, 85nS	28-Dip	10.83	9.75	8.65
BQ4010YMA-70	296-9390-5-ND	8kx8 Nonvolatile SRAM, 10%, 70nS	28-Dip	9.10	8.19	7.27
BQ4011LYMA-70N	296-22088-5-ND	32kx8 Nonvolatile SRAM, 10%, 70nS ***NEW!***	28-Dip	10.50	9.45	8.38
BQ4011MA-100	296-9391-5-ND	32kx8 Nonvolatile SRAM, 10%, 100nS	28-Dip	10.50	9.45	8.38
BQ4011YMA-70	296-9393-5-ND	32kx8 Nonvolatile SRAM, 10%, 70nS	28-Dip	10.50	9.45	8.38
BQ4011YMA-100	296-9392-5-ND	32kx8 Nonvolatile SRAM, 10%, 100nS	28-Dip	10.63	9.57	8.49
BQ4013LYMA-70N	296-22089-5-ND	128kx8 Nonvolatile SRAM, 10%, 70nS ***NEW!***	32-Dip	13.29	11.97	10.62
BQ4013YMA-70	296-9394-5-ND	128kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	13.29	11.97	10.62
BQ4013YMA-70N	296-9395-5-ND	128kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	13.29	11.97	10.62
BQ4013YMA-85	296-9396-5-ND	128kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	13.29	11.97	10.62
BQ4014MB-85	296-9397-5-ND	256kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	30.03	28.03	26.03
BQ4014YMB-85	296-9398-5-ND	256kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	30.03	28.03	26.03
BQ4015LYMA-70N	296-22090-5-ND	512kx8 Nonvolatile SRAM, 10%, 70nS ***NEW!***	32-Dip	27.72	25.88	24.03
BQ4015MA-70	296-9399-5-ND	512kx8 Nonvolatile SRAM, 10% 70nS	32-Dip	27.72	25.88	24.03
BQ4015YMA-70	296-9400-5-ND	512kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	27.72	25.88	24.03
BQ4015YMA-85	296-9401-5-ND	512kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	27.72	25.88	24.03
BQ4016MC-70	296-9402-5-ND	1024kx8 Nonvolatile SRAM, 70nS	36-Dip	32.76	30.58	28.40
BQ4016YMC-70	296-9403-5-ND	1024kx8 Nonvolatile SRAM, 10%, 70nS	36-Dip	39.02	36.42	33.82
BQ4017MC-70	296-9404-5-ND	2048kx8 Nonvolatile SRAM, 70nS	36-Dip	63.00	58.80	54.60
BQ20851DBT-V1P2	296-17465-5-ND	Gas Gauge for BQ29311	38-TSSOP	8.66	7.80	6.92
BQ24001EVM	296-9377-ND	Evaluation Module for BQ24001	—	49.38	—	—
BQ24001PWP	296-9378-5-ND	Single Cell Li-Ion Charge Management	20-HTSSOP	3.60	2.88	2.24
BQ24001RGWEVM	296-19925-ND	Evaluation Module for BQ24001RGW	—	50.00	—	—
BQ24001RGWR	296-12968-1-ND	Single Cell Li-Ion Charge Management	20-QFN	3.60	2.88	2.24
BQ24001RGWR	296-12968-2-ND	Single Cell Li-Ion Charge Management	20-QFN	6048.00/3,000		
BQ24002PWP	296-9379-5-ND	Single Cell Li-Ion Charge Management	20-HTSSOP	3.60	2.88	2.24
BQ24002RGWEVM	296-19926-ND	Evaluation Module for BQ24002RGW	—	50.00	—	—
BQ24002RGWR	296-12969-1-ND	Single Cell Li-Ion Charge Management	20-QFN	3.60	2.88	2.24
BQ24002RGWR	296-12969-2-ND	Single Cell Li-Ion Charge Management	20-QFN	6048.00/3,000		
BQ24003PWP	296-9380-5-ND	Single Cell Li-Ion Charge Management	20-HTSSOP	3.60	2.88	2.24
BQ24003RGWEVM	296-19927-ND	Evaluation Module for BQ24003RGW	—	50.00	—	—
BQ24003RGWR	296-12970-1-ND	Single Cell Li-Ion Charge Management	20-QFN	3.60	2.88	2.24
BQ24003RGWR	296-12970-2-ND	Single Cell Li-Ion Charge Management	20-QFN	6048.00/3,000		
BQ24004EVM	296-19928-ND	Evaluation Module for BQ24004	—	50.00	—	—

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ24004PWP	296-9381-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	3.60	2.88	2.24
BQ24005PWP	296-9382-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	3.60	2.88	2.24
BQ24006PWP	296-9383-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	3.60	2.88	2.24
BQ24007PWP	296-9384-5-ND	Single Cell Li-Ion Charge Management Timer-Enable	20-HTSSOP	3.60	2.88	2.24
BQ24007RGWEVM	296-19929-ND	Evaluation Module for BQ24007RGW	—	50.00	—	—
BQ24007RGWR	296-12971-1-ND	Single Cell Li-Ion Charge Management Timer-Enable	20-QFN	3.60	2.88	2.24
BQ24007RGWR	296-12971-2-ND	Single Cell Li-Ion Charge Management Timer-Enable	20-QFN	6048.00/3,000		
BQ24008PWP	296-9385-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	3.60	2.88	2.24
BQ24010DRCR	296-13714-1-ND	Single Chip, Li-Ion Charge Management	10-SON	2.48	1.98	1.49
BQ24010DRCR	296-13714-2-ND	Single Chip, Li-Ion Charge Management	10-SON	3801.00/3,000		
BQ24010EVM	296-19930-ND	Evaluation Module for BQ24010	—	50.00	—	—
BQ24012DRCR	296-13715-1-ND	Single Chip, Li-Ion Charge Management	10-SON	2.48	1.98	1.49
BQ24012DRCR	296-13715-2-ND	Single Chip, Li-Ion Charge Management	10-SON	3801.00/3,000		
BQ24012EVM	296-19931-ND	Evaluation Module for BQ24012	—	50.00	—	—
BQ24013DRCR	296-13716-1-ND	Single Chip, Li-Ion Charge Management	10-SON	2.48	1.98	1.49
BQ24013DRCR	296-13716-2-ND	Single Chip, Li-Ion Charge Management	10-SON	3801.00/3,000		
BQ24013EVM	296-19932-ND	Evaluation Module for BQ24013	—	50.00	—	—
BQ24014DRCR	296-18392-1-ND	Single Chip, Li-Ion Charge Management	10-SON	2.48	1.98	1.49
BQ24014DRCR	296-18392-2-ND	Single Chip, Li-Ion Charge Management	10-SON	3801.00/3,000		
BQ24018DRCR	296-22086-1-ND	Single Chip, Li-Ion Charge Management ***NEW!***	10-SON	2.48	1.98	1.49
BQ24018DRCR	296-22086-2-ND	Single Chip, Li-Ion Charge Management ***NEW!***	10-SON	3801.00/3,000		
BQ24020DRCR	296-14072-1-ND	Li-Ion/Li-Pol Charger	10-SON	2.48	1.98	1.49
BQ24020DRCR	296-14072-2-ND	Li-Ion/Li-Pol Charger	10-SON	3801.00/3,000		
BQ24020EVM	296-19933-ND	Evaluation Module for BQ24020	—	50.00	—	—
BQ24022DRCR	296-14397-1-ND	Single Cell Li-Ion Charge Management	10-SON	2.48	1.98	1.49
BQ24022DRCR	296-14397-2-ND	Single Cell Li-Ion Charge Management	10-SON	3801.00/3,000		
BQ24022EVM	296-18393-ND	Evaluation Module for BQ24022	—	50.00	—	—
BQ24023DRCR	296-15182-1-ND	Li-Ion/Li-Pol Charger	10-SON	2.48	1.98	1.49
BQ24023DRCR	296-15182-2-ND	Li-Ion/Li-Pol Charger	10-SON	3801.00/3,000		
BQ24023EVM	296-18394-ND	Evaluation Module for BQ24023	—	50.00	—	—
BQ24024DRCR	296-17054-1-ND	Single Chip, Li-Ion/Li-Pol Charger	10-SON	2.48	1.98	1.49
BQ24024DRCR	296-17054-2-ND	Single Chip, Li-Ion/Li-Pol Charger	10-SON	3801.00/3,000		
BQ24025DRCR	296-15760-1-ND	Single Chip, Li-Ion/Li-Pol Charger	10-SON	2.48	1.98	1.49
BQ24025DRCR	296-15760-2-ND	Single Chip, Li-Ion/Li-Pol Charger	10-SON	3801.00/3,000		
BQ24026DRCR	296-17305-1-ND	Li-Ion/Li-Pol Charger	10-SON	2.48	1.98	1.49
BQ24026DRCR	296-17305-2-ND	Li-Ion/Li-Pol Charger	10-SON	3801.00/3,000		
BQ24027DRCR	296-19866-1-ND	Single Chip Li-Ion and Li-Pol Charger IC	10-SON	2.48	1.98	1.49
BQ24027DRCR	296-19866-2-ND	Single Chip Li-Ion and Li-Pol Charger IC	10-SON	3801.00/3,000		
BQ24027EVM	296-20732-ND	Evaluation Module for BQ24027	—	50.00	—	—
BQ24030EVM	296-20822-ND	Evaluation Module for BQ24030	—	50.00	—	—
BQ24030RHLR	296-17909-1-ND	Single-Chip Power Management System	20-QFN	4.05	3.24	2.52
BQ24030RHLR	296-17909-2-ND	Single-Chip Power Management System	20-QFN	6804.00/3,000		
BQ24031RHLR	296-21372-1-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	4.05	3.24	2.52
BQ24031RHLR	296-21372-2-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	6804.00/3,000		
BQ24032AEVM	296-20823-ND	Evaluation Module for BQ24032A	—	50.00	—	—
BQ24032ARHLR	296-18285-1-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	4.05	3.24	2.52
BQ24032ARHLR	296-18285-2-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	6804.00/3,000		
BQ24035EVM	296-20824-ND	Evaluation Module for BQ24035	—	50.00	—	—
BQ24035RHLR	296-17803-1-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	4.05	3.24	2.52
BQ24035RHLR	296-17803-2-ND	Single-Chip Charge and System Power-Path Managment IC	20-QFN	6804.00/3,000		
BQ24038RHLT	296-18286-1-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	4.50	3.60	2.80
BQ24038RHLT	296-18286-2-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	665.00/250		
BQ24060DRCT	296-19867-1-ND	1A Single Chip Li-Ion and Li-Pol Charge Management IC	10-SON	2.48	1.98	1.54
BQ24060DRCT	296-19867-2-ND	1A Single Chip Li-Ion and Li-Pol Charge Management IC	10-SON	365.75/250		
BQ24061DRCR	296-19868-1-ND	1A Single Chip Li-Ion and Li-Pol Charge Management IC	10-SON	2.48	1.98	1.49
BQ24061DRCR	296-19868-2-ND	1A Single Chip Li-Ion and Li-Pol Charge Management IC	10-SON	3801.00/3,000		
BQ24064DRCR	296-19869-1-ND	1A Single Chip Li-Ion and Li-Pol Charge Management IC	10-SON	2.48	1.98	1.49
BQ24064DRCR	296-19869-2-ND	1A Single Chip Li-Ion and Li-Pol Charge Management IC	10-SON	3801.00/3,000		
BQ24070EVM	296-20733-ND	Evaluation Module for BQ24070	—	50.00	—	—
BQ24070RHLR	296-19652-1-ND	Single Chip Charge and System Power Path Management IC	20-QFN	3.60	2.88	2.24
BQ24070RHLR	296-19652-2-ND	Single Chip Charge and System Power Path Management IC	20-QFN	6048.00/3,000		
BQ24071RHLT	296-20743-1-ND	Li-Ion Charge and System Power-Path Management IC	20-QFN	4.05	3.24	2.52
BQ24071RHLT	296-20743-2-ND	Li-Ion Charge and System Power-Path Management IC	20-QFN	598.50/250		
BQ24080DRCR	296-19653-1-ND	Single Chip Li-Ion and Li-Pol Charger IC	10-SON	2.25	1.80	1.35
BQ24080DRCR	296-19653-2-ND	Single Chip Li-Ion and Li-Pol Charger IC	10-SON	3456.00/3,000		
BQ24080EVM	296-20734-ND	Evaluation Module for BQ24080	—	50.00	—	—
BQ24081DRCR	296-21217-1-ND	1A Single Chip Li-Ion and Li-Pol Charger IC	10-SON	2.25	1.80	1.35
BQ24081DRCR	296-21217-2-ND	1A Single Chip Li-Ion and Li-Pol Charger IC	10-SON	3456.00/3,000		
BQ24085DRCR	296-22992-1-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC ***NEW!***	10-SON	2.38	1.90	1.43
BQ24085DRCR	296-22992-2-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC ***NEW!***	10-SON	3648.00/3,000		
BQ24086DRCR	296-22993-1-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC ***NEW!***	10-SON	2.38	1.90	1.43
BQ24086DRCR	296-22993-2-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC ***NEW!***	10-SON	3648.00/3,000		
BQ24087DRCR	296-22994-1-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC ***NEW!***	10-SON	2.38	1.90	1.43
BQ24087DRCR	296-22994-2-ND	750mA Single Chip Li-Ion/Li-Pol Charge Management IC ***NEW!***	10-SON	3648.00/3,000		
BQ24100EVM	296-17258-ND	Evaluation Module for BQ24100	—	50.00	—	—
BQ24100RHLR	296-17154-1-ND	Li-Ion/Li-Pol Charger	20-QFN	4.50	3.60	2.80
BQ24100RHLR	296-17154-2-ND	Li-Ion/Li-Pol Charger	20-QFN	7560.00/3,000		
BQ24103ARHLR	296-22739-1-ND	Li-Ion/Li-Pol Charger ***NEW!***	20-QFN	4.50	3.60	2.80
BQ24103ARHLR	296-22739-2-ND	Li-Ion/Li-Pol Charger ***NEW!***	20-QFN	7560.00/3,000		
BQ24103EVM	296-17259-ND	Evaluation Module for BQ24103	—	50.00	—	—
BQ24103RHLR	296-17155-1-ND	Li-Ion/Li-Pol Charger	20-QFN	4.50	3.60	2.80
BQ24103RHLR	296-17155-2-ND	Li-Ion/Li-Pol Charger	20-QFN	7560.00/3,000		
BQ24105EVM	296-17260-ND	Evaluation Module for BQ24105	—	50.00	—	—
BQ24105RHLR	296-17159-1-ND	Li-Ion/Li-Pol Charger	20-QFN	7.00	5.60	4.73
BQ24105RHLR	296-17159-2-ND	Li-Ion/Li-Pol Charger	20-QFN	13020.00/3,000		
BQ24108RHLR	296-17398-1-ND	Li-Ion/Li-Pol Charge Management	20-QFN	4.50	3.60	2.80
BQ24108RHLR	296-17398-2-ND	Li-Ion/Li-Pol Charge Management	20-QFN	7560.00/3,000		
BQ24109RHLR	296-22956-1-ND	Sync. Switchmode, Li-Ion/Li-Pol Charge Management ***NEW!***	20-QFN	4.50	3.60	2.80
BQ24109RHLR	296-22956-2-ND	Sync. Switchmode, Li-Ion/Li-Pol Charge Management ***NEW!***	20-QFN	7560.00/3,000		
BQ24113ARHLT	296-22087-1-ND	Sync. Switchmode, Li-Ion/Li-Pol Charge Management ***NEW!***	20-QFN	4.95	3.96	3.08
BQ24113ARHLT	296-22087-2-ND	Sync. Switchmode, Li-Ion/Li-Pol Charge Management ***NEW!***	20-QFN	731.50/250		
BQ24113EVM	296-17261-ND	Evaluation Module for BQ24113	—	50.00	—	—
BQ24113RHLR	296-17156-1-ND	Sync. Switchmode, Li-Ion/Li-Pol Charge Management	20-QFN	4.50	3.60	2.80
BQ24113RHLR	296-17156-2-ND	Sync. Switchmode, Li-Ion/Li-Pol Charge Management	20-QFN	7560.00/3,000		
BQ24115EVM	296-17262-ND	Evaluation Module for BQ24115	—	50.00	—	—
BQ24115RHLR	296-17160-1-ND	Li-Ion/Li-Pol Charger	20-QFN	7.00	5.60	4.73
BQ24115RHLR	296-17160-2-ND	Li-Ion/Li-Pol Charger	20-QFN	13020.00/3,000		
BQ24120EVM-001	296-19719-ND	Evaluation Module for BQ24120	—	50.00	—	—
BQ24120RHLT	296-19572-1-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC	20-QFN	4.95	3.96	3.08
BQ24120RHLT	296-19572-2-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC	20-QFN	731.50/250		
BQ24123RHLT	296-19573-1-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC	20-QFN	4.95	3.96	3.08
BQ24123RHLT	296-19573-2-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC	20-QFN	731.50/250		
BQ24125RHLR	296-22881-1-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC ***NEW!***	20-QFN	7.00	5.60	4.73
BQ24125RHLR	296-22881-2-ND	Single Chip Switchmode Li-Ion/Li-Pol Charge Management IC ***NEW!***	20-QFN	13020.00/3,000		
BQ24200DGN	296-12409-5-ND	4.2V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.13	1.70	1.28
BQ24200EVM	296-13542-ND	Eval. Module for BQ24200-BQ24205	—	50.00	—	—
BQ24201DGN	296-12410-5-ND	4.1V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.13	1.70	1.28
BQ24202DGN	296-12411-5-ND	4.2V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.13	1.70	1.28
BQ24203DGN	296-12412-5-ND	4.1V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.13	1.70	1.28
BQ24204DGN	296-12413-5-ND	4.2V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.13	1.70	1.28
BQ24205DGN	296-12414-5-ND	4.1V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.13	1.70	1.28
BQ24300DSGR	296-23075-1-ND	Charger Front End Protection IC ***NEW!***	8-SON	1.38	1.10	.83
BQ24300DSGR	296-23075-2-ND	Charger Front End Protection IC ***NEW!***	8-SON	2112.00/3,000		
BQ24304DSGR	296-23076-1-ND	Charger Front End Protection IC ***NEW!***	8-SON	1.38	1.10	.83
BQ24304DSGR	296-23076-2-ND	Charger Front End Protection IC ***NEW!***	8-SON	2112.00/3,000		
BQ24314ADSGR	296-23340-1-ND	Charger Front End Protection IC ***NEW!***	8-SON	1.38	1.10	.83
BQ24314ADSGR	296-23340-2-ND	Charger Front End Protection IC ***NEW!***	8-SON	2112.00/3,000		
BQ24314DSGR	296-22998-1-ND	Charger Front End Protection IC ***NEW!***	8-SON	1.38	1.10	.83
BQ24314DSGR	296-22998-2-ND	Charger Front End Protection IC ***NEW!***	8-SON	2112.00/3,000		
BQ24315DSGR	296-23341-1-ND	Charger Front End Protection IC ***NEW!***	8-SON	1.38	1.10	.83
BQ24315DSGR	296-23341-2-ND	Charger Front End Protection IC ***NEW!***	8-SON	2112.00/3,000		
BQ24316DSGR	296-22613-1-ND	Overvoltage and Overcurrent Protection IC ***NEW!***	8-SON	1.38	1.10	.83
BQ24316DSGR	296-22613-2-ND	Overvoltage and Overcurrent Protection IC ***NEW!***	8-SON	2112.00/3,000		
BQ24316DSJR	296-23342-1-ND	Overvoltage and Overcurrent Protection IC ***NEW!***	12-SON	1.63	1.30	.98
BQ24316DSJR	296-23342-2-ND	Overvoltage and Overcurrent Protection IC ***NEW!***	12-SON	2496.00/3,000		
BQ24400D	296-12622-5-ND	Programmable NiCd/NiMH Charge Management	8-SOIC	3.49	2.79	2.17
BQ24400PW	296-12623-5-ND	Programmable NiCd/NiMH Charge Management	8-TSSOP	3.49	2.79	2.17
BQ24401D	296-12624-5-ND	Programmable NiCd/NiMH Charge Management	8-SOIC	3.49	2.79	2.17
BQ24401PW	296-12625-5-ND	Programmable NiCd/NiMH Charge Management	8-TSSOP	3.49	2.79	2.17
BQ24700PW	296-12361-5-ND	Battery Charger Controller/Selector with DPM	24-TSSOP	6.20	4.96	4.19
BQ24701PW	296-12362-5-ND	Battery Charger Controller/Selector with DPM	24-TSSOP	6.20	4.96	4.19
BQ24702PW	296-15264-5-ND	Battery Charger Controller and System Power Selector	24-TSSOP	4.73	3.78	2.94
BQ24702PWR	296-20825-1-ND	Battery Charger Controller and System Power Selector	24-TSSOP	4.73	3.78	2.94

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ24702PWR	296-20825-2-ND	Battery Charger Controller and System Power Selector	24-TSSOP	5356.00/2,000		
BQ24703EVM	296-18396-ND	Evaluation Module for BQ24703	—	50.00	—	—
BQ24703PW	296-15113-5-ND	Battery Charger Controller/Selector with DPM	24-TSSOP	4.73	3.78	2.94
BQ24703RHDR	296-17828-1-ND	Battery Charger Controller/Selector with DPM	28-QFN	4.73	3.78	2.94
BQ24703RHDR	296-17828-2-ND	Battery Charger Controller/Selector with DPM	28-QFN	7938.00/3,000		
BQ24705RGER	296-22957-1-ND	Host-Controlled Multi-Chemistry Battery Charger ***NEW!***	24-QFN	4.95	3.96	3.08
BQ24705RGER	296-22957-2-ND	Host-Controlled Multi-Chemistry Battery Charger ***NEW!***	24-QFN	8316.00/3,000		
BQ24721CRHBR	296-21373-1-ND	Adv. Multi-Chemistry and Multi-Cell Sync. Switch-Mode Charger	32-QFN	5.14	4.12	3.47
BQ24721CRHBR	296-21373-2-ND	Adv. Multi-Chemistry and Multi-Cell Sync. Switch-Mode Charger	32-QFN	9561.00/3,000		
BQ24721EVM	296-19455-ND	Evaluation Module for BQ24721	—	152.00	—	—
BQ24730RGFR	296-19661-1-ND	Adv. Multi-Chemistry and Multi-Cell Sync. Switch-Mode Charger	40-QFN	5.52	4.42	3.73
BQ24730RGFR	296-19661-2-ND	Adv. Multi-Chemistry and Multi-Cell Sync. Switch-Mode Charger	40-QFN	10266.00/3,000		
BQ24740RHDR	296-21374-1-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	5.18	4.14	3.22
BQ24740RHDR	296-21374-2-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	8694.00/3,000		
BQ24745RHDT	296-22995-1-ND	SMBus-Controlled Level 2 Multi-Chemistry Battery Charger ***NEW!***	28-QFN	6.40	5.12	4.32
BQ24745RHDT	296-22995-2-ND	SMBus-Controlled Level 2 Multi-Chemistry Battery Charger ***NEW!***	28-QFN	1040.00/250		
BQ24750RHDR	296-21375-1-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	5.00	4.00	3.38
BQ24750RHDR	296-21375-2-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	9300.00/3,000		
BQ24751ARHDR	296-22875-1-ND	Host-Controlled Multi-Chemistry Battery Charger ***NEW!***	28-QFN	5.00	4.00	3.38
BQ24751ARHDR	296-22875-2-ND	Host-Controlled Multi-Chemistry Battery Charger ***NEW!***	28-QFN	9300.00/3,000		
BQ24751RHDR	296-21376-1-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	5.00	4.00	3.38
BQ24751RHDR	296-21376-2-ND	Host-Controlled Multi-Chemistry Battery Charger	28-QFN	9300.00/3,000		
BQ24901PW	296-14073-5-ND	Single Cell Li-Ion and Li-Pol Charger	14-TSSOP	4.73	3.78	2.94
BQ25010EVM	296-20826-ND	Evaluation Module for BQ25010	—	50.00	—	—
BQ25010RHLR	296-17639-1-ND	Charger and DC/DC Converter	20-QFN	3.38	2.70	2.10
BQ25010RHLR	296-17639-2-ND	Charger and DC/DC Converter	20-QFN	5670.00/3,000		
BQ25012RHLR	296-17804-1-ND	Charge/Power Management	20-QFN	3.38	2.70	2.10
BQ25012RHLR	296-17804-2-ND	Charge/Power Management	20-QFN	5670.00/3,000		
BQ25015RHLR	296-21510-1-ND	Single Chip Charger and DC/DC Converter for Portable Applications	20-QFN	3.60	2.88	2.24
BQ25015RHLR	296-21510-2-ND	Single Chip Charger and DC/DC Converter for Portable Applications	20-QFN	6048.00/3,000		
BQ25017RHLR	296-21697-1-ND	Single Chip Charger and DC/DC Converter	20-QFN	3.60	2.88	2.24
BQ25017RHLR	296-21697-2-ND	Single Chip Charger and DC/DC Converter	20-QFN	6048.00/3,000		
BQ26100DRPR	296-20633-1-ND	SHA-1/HMAC Based Security and Authentication IC	6-SON	2.93	2.34	1.82
BQ26100DRPR	296-20633-2-ND	SHA-1/HMAC Based Security and Authentication IC	6-SON	4914.00/3,000		
BQ26150DCKR	296-18601-1-ND	Battery Pack Security/Authentication IC	SC70-5	2.93	2.34	1.82
BQ26150DCKR	296-18601-2-ND	Battery Pack Security/Authentication IC	SC70-5	4914.00/3,000		
BQ26150EVM-001	296-20827-ND	Evaluation Module for BQ26150	—	101.00	—	—
BQ26200EVM-001	296-19934-ND	Evaluation Module for BQ26200	—	101.00	—	—
BQ26200PW	296-12626-5-ND	High Performance Battery Monitor	8-TSSOP	4.50	3.60	2.80
BQ26220EVM-001	296-18397-ND	Evaluation Module for BQ26220-001	—	101.00	—	—
BQ26220PW	296-14004-5-ND	High Performance Battery Monitor with Voltage and Temperature	8-TSSOP	4.61	3.69	2.87
BQ26221PWR	296-17161-1-ND	High Performance Battery Monitor	8-TSSOP	4.61	3.69	2.87
BQ26221PWR	296-17161-2-ND	High Performance Battery Monitor	8-TSSOP	5228.00/2,000		
BQ26231EVM-001	296-19935-ND	Evaluation Module for BQ26231	—	101.00	—	—
BQ26231PW	296-12269-5-ND	Battery Coulomb Counter	8-TSSOP	3.38	2.70	2.10
BQ26500EVM-001	296-18398-ND	Evaluation Module for BQ26500-001	—	101.00	—	—
BQ26500PW	296-15848-5-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	8-TSSOP	5.29	4.23	3.29
BQ26500PWR	296-16775-1-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	8-TSSOP	5.29	4.23	3.29
BQ26500PWR	296-16775-2-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	8-TSSOP	5992.00/2,000		
BQ26501PW	296-16925-5-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	8-TSSOP	5.29	4.23	3.29
BQ27X00-TESTER	296-20829-ND	Test System for BQ27X00 Based Circuit Boards	—	152.00	—	—
BQ27000DRKR	296-17428-1-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	10-SON	3.38	2.70	2.10
BQ27000DRKR	296-17428-2-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	10-SON	5670.00/3,000		
BQ27000EVM	296-18399-ND	Evaluation Module for BQ27000	—	101.00	—	—
BQ27010DRKR	296-20634-1-ND	Li-Ion/Li-Pol Battery Gas Gauge	10-SON	4.39	3.51	2.73
BQ27010DRKR	296-20634-2-ND	Li-Ion/Li-Pol Battery Gas Gauge	10-SON	7371.00/3,000		
BQ27200DRKR	296-17521-1-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	10-SON	3.38	2.70	2.10
BQ27200DRKR	296-17521-2-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	10-SON	5670.00/3,000		
BQ27200EVM	296-20828-ND	Evaluation Module for BQ27200	—	101.00	—	—
BQ27210DRKR	296-21511-1-ND	Li-Ion/Li-Pol Battery Gas Gauge	10-QFN	4.39	3.51	2.73
BQ27210DRKR	296-21511-2-ND	Li-Ion/Li-Pol Battery Gas Gauge	10-QFN	7371.00/3,000		
BQ27350PWR	296-21665-1-ND	Single Cell Li-Ion Battery Manager	20-TSSOP	4.05	3.24	2.52
BQ27350PWR	296-21665-2-ND	Single Cell Li-Ion Battery Manager	20-TSSOP	4590.00/2,000		
BQ27500DRZT	296-22633-1-ND	System Side Impedance Track™ Fuel Gauge ***NEW!***	12-SON	3.38	2.70	2.10
BQ27500DRZT	296-22633-2-ND	System Side Impedance Track™ Fuel Gauge ***NEW!***	12-SON	498.75/250		
BQ27500EVM	296-23174-ND	Evaluation Module for BQ2750X ***NEW!***	—	101.00	—	—
BQ29311PW	296-13067-5-ND	3 and 4-Cell Li-Ion or Li-Pol Battery Protection	24-TSSOP	2.25	1.80	1.40
BQ29312APW	296-18644-5-ND	2, 3, and 4-Cell Li-Ion or Li-Pol Battery Protection	24-TSSOP	2.25	1.80	1.40
BQ29312ARTHR	296-19870-1-ND	2, 3, and 4-Cell Li-Ion or Li-Pol Battery Protection	24-QFN	2.25	1.80	1.40
BQ29312ARTHR	296-19870-2-ND	2, 3, and 4-Cell Li-Ion or Li-Pol Battery Protection	24-QFN	3780.00/3,000		
BQ29312PW	296-15247-5-ND	2, 3, and 4-Cell Li-Ion or Li-Pol Battery Protection	24-TSSOP	2.39	1.91	1.49
BQ29330DBT	296-18607-5-ND	2, 3, and 4-Cell Li-Ion or Li-Pol Battery Protection	30-TSSOP	2.25	1.80	1.40
BQ29400PW	296-15331-5-ND	2, 3, and 4-Cell Li-Ion Battery Protection	8-TSSOP	1.26	1.05	.84
BQ29401PW	296-16673-5-ND	2 to 4-Cell Li-Ion Battery Protection	8-TSSOP	1.20	1.00	.80
BQ29410DCT3R	296-20830-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.29	1.08	.86
BQ29410DCT3R	296-20830-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1677.00/3,000		
BQ29410DCTR	296-21218-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.29	1.08	.86
BQ29410DCTR	296-21218-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1677.00/3,000		
BQ29410PW	296-19574-5-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.29	1.08	.86
BQ29410PWRG4	296-21298-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.29	1.08	.86
BQ29410PWRG4	296-21298-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1144.00/2,000		
BQ29411DCT3R	296-20831-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.29	1.08	.86
BQ29411DCT3R	296-20831-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1677.00/3,000		
BQ29411DCTR	296-21219-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.29	1.08	.86
BQ29411DCTR	296-21219-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1677.00/3,000		
BQ29411PW	296-19575-5-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.29	1.08	.86
BQ29411PWRG4	296-21220-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.29	1.08	.86
BQ29411PWRG4	296-21220-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1144.00/2,000		
BQ29412DCT3R	296-19277-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.35	1.13	.90
BQ29412DCT3R	296-19277-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1755.00/3,000		
BQ29412DCTR	296-21723-1-ND	Voltage Protection for 2, 3, or 4 Cell Li-Ion Batteries	SM8	1.35	1.13	.90
BQ29412DCTR	296-21723-2-ND	Voltage Protection for 2, 3, or 4 Cell Li-Ion Batteries	SM8	1755.00/3,000		
BQ29412PW	296-19456-5-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.35	1.13	.90
BQ29412PWRG4	296-21724-1-ND	Voltage Protection for 2, 3, or 4 Cell Li-Ion Batteries	8-TSSOP	1.35	1.13	.90
BQ29412PWRG4	296-21724-2-ND	Voltage Protection for 2, 3, or 4 Cell Li-Ion Batteries	8-TSSOP	1198.00/2,000		
EV2300	296-18432-ND	Evaluation Module for Interface Board	—	50.00	—	—
BQ29413DCTR	296-21328-1-ND	4.5V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.29	1.08	.86
BQ29413DCTR	296-21328-2-ND	4.5V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1144.00/2,000		
BQ29413PWR	296-21329-1-ND	4.5V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.29	1.08	.86
BQ29413PWR	296-21329-2-ND	4.5V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1144.00/2,000		
BQ29414DCTR	296-21377-1-ND	4.55V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.29	1.08	.86
BQ29414DCTR	296-21377-2-ND	4.55V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1677.00/3,000		
BQ29414PWR	296-21378-1-ND	4.55V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.29	1.08	.86
BQ29414PWR	296-21378-2-ND	4.55V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1144.00/2,000		
BQ29415DCTR	296-21379-1-ND	4.6V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1.29	1.08	.86
BQ29415DCTR	296-21379-2-ND	4.6V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	SM8	1677.00/3,000		
BQ29415PWR	296-21380-1-ND	4.6V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1.29	1.08	.86
BQ29415PWR	296-21380-2-ND	4.6V, Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-TSSOP	1144.00/2,000		
BQ29419PWR	296-22030-1-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries ***NEW!***	8-TSSOP	1.29	1.08	.86
BQ29419PWR	296-22030-2-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries ***NEW!***	8-TSSOP	1144.00/2,000		
TPS3600D20PW	296-10906-5-ND	2V Battery Backup Supervisor for Low Power Processors	14-TSSOP	4.50	3.60	2.80
TPS3600D25PW	296-12017-5-ND	2.5V Battery Backup Supervisor for Low Power Processors	14-TSSOP	4.50	3.60	2.80
TPS3600D33PW	296-12237-5-ND	3.3V Battery Backup Supervisor for Low Power Processors	14-TSSOP	4.50	3.60	2.80
TPS3600D33PWR	296-10907-1-ND	3.3V Battery Backup Supervisor for Low Power Processors	14-TSSOP	5.18	4.14	3.22
TPS3600D33PWR	296-10907-2-ND	3.3V Battery Backup Supervisor for Low Power Processors	14-TSSOP	5100.00/2,000		
TPS3600D50PW	296-12238-5-ND	5V Battery Backup Supervisor for Low Power Processors	14-TSSOP	4.50	3.60	2.80
TPS3600EVM-186	296-12381-ND	Evaluation Module for TPS3600	—	50.00	—	—
TPS3606-33DGS	296-10909-5-ND	3.3V Battery Backup Supervisor for Low Power Processors	10-MSOP	3.26	2.61	2.03
TPS3610T50PW	296-10910-5-ND	5V Battery Backup Supervisor for RAM Retention	14-TSSOP	3.71	2.97	2.31
TPS3610U18PW	296-12239-5-ND	1.8V Battery Backup Supervisor for RAM Retention	14-TSSOP	3.71	2.97	2.31

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS3613-01DGS	296-10912-5-ND	Adj. Battery Backup Supervisor for RAM Retention	10-MSOP	3.15	2.52	1.96
TPS3617-50DGK	296-10913-5-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	2.70	2.16	1.68
TPS3618-50DGKT	296-17574-1-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	3.26	2.61	2.03
TPS3618-50DGKT	296-17574-2-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	482.25/250		
TPS3619-33DGK	296-12141-5-ND	3.3V Battery Backup Supervisor for RAM Retention	8-MSOP	2.48	1.98	1.54
TPS3619-33MDGKREP	296-22436-1-ND	3.3V Battery Backup Supervisor for RAM Retention ***NEW!***	8-MSOP	6.60	5.28	4.46
TPS3619-33MDGKREP	296-22436-2-ND	3.3V Battery Backup Supervisor for RAM Retention ***NEW!***	8-MSOP	10230.00/2,500		
TPS3619-50DGK	296-12142-5-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	2.48	1.98	1.54
TPS3620-33DGKR	296-17452-1-ND	3.3V Backup Battery Supervisor for RAM Retention	8-MSOP	2.48	1.98	1.54
TPS3620-33DGKR	296-17452-2-ND	3.3V Backup Battery Supervisor for RAM Retention	8-MSOP	3465.00/2,500		
TPS3620-33MDGKREP	296-22437-1-ND	3.3V Battery Backup Supervisor for RAM Retention ***NEW!***	8-MSOP	5.62	4.50	3.80
TPS3620-33MDGKREP	296-22437-2-ND	3.3V Battery Backup Supervisor for RAM Retention ***NEW!***	8-MSOP	8710.00/2,500		
TPS3620-50DGKR	296-17575-1-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	2.48	1.98	1.54
TPS3620-50DGKR	296-17575-2-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	3465.00/2,500		
TPS3805H33MDCKREP	296-18152-1-ND	Voltage Detector, Push/Pull Reset Output ***NEW!***	SC70-5	2.20	1.76	1.32
TPS3805H33MDCKREP	296-18152-2-ND	Voltage Detector, Push/Pull Reset Output ***NEW!***	SC70-5	3378.00/3,000		
TPS3805H33QDCKREP	296-22438-1-ND	Voltage Detector, Push/Pull Reset Output ***NEW!***	SC70-5	1.41	1.18	.94
TPS3805H33QDCKREP	296-22438-2-ND	Voltage Detector, Push/Pull Reset Output ***NEW!***	SC70-5	1833.00/3,000		
TPS3809K33MDBVREP	296-22439-1-ND	3.3V Voltage Supervisor ***NEW!***	SOT-23	1.60	1.28	.96
TPS3809K33MDBVREP	296-22439-2-ND	3.3V Voltage Supervisor ***NEW!***	SOT-23	2457.00/3,000		
TPS3809L30MDBVREP	296-22440-1-ND	3V Voltage Supervisor ***NEW!***	SOT-23	1.60	1.28	.96
TPS3809L30MDBVREP	296-22440-2-ND	3V Voltage Supervisor ***NEW!***	SOT-23	2457.00/3,000		
TPS3813K33MDBVREP	296-22441-1-ND	3.3V Processor Supervisory Circuit ***NEW!***	SOT-23-6	5.18	4.14	3.22
TPS3813K33MDBVREP	296-22441-2-ND	3.3V Processor Supervisory Circuit ***NEW!***	SOT-23-6	8694.00/3,000		
TPS3838E18MDBVREP	296-22442-1-ND	1.8V Nanopower Supervisory Circuit ***NEW!***	SOT-23-5	2.25	1.80	1.40
TPS3838E18MDBVREP	296-22442-2-ND	1.8V Nanopower Supervisory Circuit ***NEW!***	SOT-23-5	3780.00/3,000		
TPS3838J25MDBVREP	296-22443-1-ND	2.5V Nanopower Supervisory Circuit ***NEW!***	SOT-23-5	2.25	1.80	1.40
TPS3838J25MDBVREP	296-22443-2-ND	2.5V Nanopower Supervisory Circuit ***NEW!***	SOT-23-5	3780.00/3,000		
TPS3838K33MDBVREP	296-22444-1-ND	3.3V Nanopower Supervisory Circuit ***NEW!***	SOT-23-5	2.25	1.80	1.40
TPS3838K33MDBVREP	296-22444-2-ND	3.3V Nanopower Supervisory Circuit ***NEW!***	SOT-23-5	3780.00/3,000		
TPS61100RGER	296-15141-1-ND	Dual Output, Single Cell Boost Converter	24-QFN	3.38	2.70	2.10
TPS61100RGER	296-15141-2-ND	Dual Output, Single Cell Boost Converter	24-QFN	5670.00/3,000		
TPS61103RGER	296-15142-1-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	3.38	2.70	2.10
TPS61103RGER	296-15142-2-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	5670.00/3,000		
TPS61106RGER	296-15143-1-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	3.38	2.70	2.10
TPS61106RGER	296-15143-2-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	5670.00/3,000		
TPS61107RGER	296-15144-1-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	3.38	2.70	2.10
TPS61107RGER	296-15144-2-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	5670.00/3,000		
TPS61130EVM-206	296-18974-ND	Evaluation Module for TPS61130-206	—	50.00	—	—
TPS61130PW	296-13521-5-ND	Adj., Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-TSSOP	4.61	3.69	2.87
TPS61130RSAR	296-16921-1-ND	Adj., Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-QFN	4.61	3.69	2.87
TPS61130RSAR	296-16921-2-ND	Adj., Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-QFN	7749.00/3,000		
TPS61131PW	296-13522-5-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-TSSOP	4.61	3.69	2.87
TPS61132PW	296-13523-5-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-TSSOP	4.61	3.69	2.87
TPS61132RSAR	296-18975-1-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-QFN	4.61	3.69	2.87
TPS61132RSAR	296-18975-2-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-QFN	7749.00/3,000		
TPS65010EVM-230	296-18988-ND	Evaluation Module for TPS65010-230	—	101.00	—	—
TPS65010RGZR	296-15241-1-ND	Power and Battery Management IC for Li-Ion Powered Systems	48-QFN	5.10	4.08	3.45
TPS65010RGZR	296-15241-2-ND	Power and Battery Management IC for Li-Ion Powered Systems	48-QFN	7905.00/2,500		
TPS65011EVM-049	296-18989-ND	Evaluation Module for TPS65011-049	—	101.00	—	—
TPS65011RGZR	296-16813-1-ND	Power/Battery Management	48-QFN	5.10	4.08	3.45
TPS65011RGZR	296-16813-2-ND	Power/Battery Management	48-QFN	7905.00/2,500		
TPS65012RGZR	296-16831-1-ND	Power/Battery Management	48-QFN	5.10	4.08	3.45
TPS65012RGZR	296-16831-2-ND	Power/Battery Management	48-QFN	7905.00/2,500		
TPS65013RGZT	296-17390-1-ND	Linear Charger Mgmt for Single Li-Ion or Li-Pol Cells	48-QFN	5.70	4.56	3.85
TPS65013RGZT	296-17390-2-ND	Linear Charger Mgmt for Single Li-Ion or Li-Pol Cells	48-QFN	926.25/250		
TPS65014RGZT	296-17695-1-ND	Power/Battery Management	48-QFN	5.70	4.56	3.85
TPS65014RGZT	296-17695-2-ND	Power/Battery Management	48-QFN	926.25/250		
TPS65020EVM-110	296-21164-ND	Evaluation Module for TPS65020	—	101.00	—	—

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS65020RHAT	296-18582-1-ND	Power Management IC for Li-Ion Powered System	40-QFN	6.80	5.44	4.59
TPS65020RHAT	296-18582-2-ND	Power Management IC for Li-Ion Powered System	40-QFN	1105.00/250		
TPS65021EVM-110	296-21165-ND	Evaluation Module for TPS65021	—	101.00	—	—
TPS65021RHAT	296-19362-1-ND	Power Management IC for Li-Ion Power System	40-QFN	6.80	5.44	4.59
TPS65021RHAT	296-19362-2-ND	Power Management IC for Li-Ion Power System	40-QFN	1105.00/250		
TPS65022RHAR	296-20693-1-ND	Power Mgmt IC for Li-Ion	40-QFN	6.10	4.88	4.12
TPS65022RHAR	296-20693-2-ND	Power Mgmt IC for Li-Ion	40-QFN	9455.00/2,500		
TPS65023RSBT	296-21318-1-ND	Power Management IC for Li-Ion Powered Systems	40-QFN	7.30	5.84	4.93
TPS65023RSBT	296-21318-2-ND	Power Management IC for Li-Ion Powered Systems	40-QFN	1186.25/250		
TPS65030YZKT	296-19560-1-ND	Power Management IC for USB-OTG	25-DSBGA	6.10	4.88	4.12
TPS65030YZKT	296-19560-2-ND	Power Management IC for USB-OTG	25-DSBGA	991.25/250		
TPS65040ZQER	296-21349-1-ND	Clock/Power Management IC for RF System	71-BGA	8.33	7.50	6.65
TPS65040ZQER	296-21349-2-ND	Clock/Power Management IC for RF System	71-BGA	15187.50/2,500		
TPS65050RSMT	296-21557-1-ND	6-Channel Power Management IC	32-QFN	4.61	3.69	2.87
TPS65050RSMT	296-21557-2-ND	6-Channel Power Management IC	32-QFN	681.75/250		
TPS65051RSMT	296-21558-1-ND	6-Channel Power Management IC	32-QFN	4.84	3.87	3.01
TPS65051RSMT	296-21558-2-ND	6-Channel Power Management IC	32-QFN	715.00/250		
TPS65052RSMT	296-21559-1-ND	6-Channel Power Management IC	32-QFN	4.84	3.87	3.01
TPS65052RSMT	296-21559-2-ND	6-Channel Power Management IC	32-QFN	715.00/250		
TPS65053RGET	296-21686-1-ND	5-Channel Power Management IC	24-QFN	4.61	3.69	2.87
TPS65053RGET	296-21686-2-ND	5-Channel Power Management IC	24-QFN	681.75/250		
TPS65054RSMT	296-21560-1-ND	6-Channel Power Management IC	32-QFN	4.84	3.87	3.01
TPS65054RSMT	296-21560-2-ND	6-Channel Power Management IC	32-QFN	715.00/250		
TPS65056RSMT	296-21561-1-ND	6-Channel Power Management IC	32-QFN	4.84	3.87	3.01
TPS65056RSMT	296-21561-2-ND	6-Channel Power Management IC	32-QFN	715.00/250		
TPS65140IPWPRQ1	296-19612-1-ND	Triple Output LCD Supply	24-TSSOP	4.28	3.42	2.66
TPS65140IPWPRQ1	296-19612-2-ND	Triple Output LCD Supply	24-TSSOP	4846.00/2,000		
TPS65145RGER	296-16904-1-ND	Triple Output LCD Supply w/Regulator	24-QFN	3.60	2.88	2.24
TPS65145RGER	296-16904-2-ND	Triple Output LCD Supply w/Regulator	24-QFN	4347.00/3,000		
TPS65162RGZR	296-21974-1-ND	Compact LCD Bias IC	48-QFN	5.51	4.41	3.43
TPS65162RGZR	296-21974-2-ND	Compact LCD Bias IC	48-QFN	7717.50/2,500		
TPS65167RGZR	296-21975-1-ND	Compact LCD Bias Supply	40-QFN	4.73	3.78	2.94
TPS65167RGZR	296-21975-2-ND	Compact LCD Bias Supply	40-QFN	6615.00/2,500		
TPS65800RTQR	296-19613-1-ND	Integrated Single Cell Li-Ion Battery and Power Management IC	56-QFN	9.58	8.63	7.65
TPS65800RTQR	296-19613-2-ND	Integrated Single Cell Li-Ion Battery and Power Management IC	56-QFN	14202.00/2,000		
TPS65800RTQT	296-19365-1-ND	Integrated Single Cell Li-Ion Battery and Power Management IC	56-QFN	10.58	9.53	8.45
TPS65800RTQT	296-19365-2-ND	Integrated Single Cell Li-Ion Battery and Power Management IC	56-QFN	2024.00/250		
TPS65810EVM	296-19715-ND	Evaluation Module for TPS65810	—	152.00	—	—
TPS65810RTQT	296-19645-1-ND	Single Cell Li-Ion Battery and Power Management IC	56-QFN	11.91	10.73	9.51
TPS65810RTQT	296-19645-2-ND	Single Cell Li-Ion Battery and Power Management IC	56-QFN	2279.00/250		
TPS65811RTQT	296-21648-1-ND	Single Cell Li-Ion Battery and Power Management IC	56-QFN	11.91	10.73	9.51
TPS65811RTQT	296-21648-2-ND	Single Cell Li-Ion Battery and Power Management IC	56-QFN	2279.00/250		
TPS65820RSHR	296-19794-1-ND	Single Cell Li-Ion Battery and Power Management IC	56-QFN	10.83	9.75	8.65
TPS65820RSHR	296-19794-2-ND	Single Cell Li-Ion Battery and Power Management IC	56-QFN	16056.00/2,000		
TPS68000DBTR	296-19561-1-ND	Highly Efficient Phase Shift Full Bridge CCFL Controller	30-TSSOP	5.00	4.00	3.38
TPS68000DBTR	296-19561-2-ND	Highly Efficient Phase Shift Full Bridge CCFL Controller	30-TSSOP	6250.00/2,000		
TPS650240RHBT	296-22475-1-ND	Power Management IC for Li-Ion Powered Systems ***NEW!***	32-QFN	6.50	5.20	4.39
TPS650240RHBT	296-22475-2-ND	Power Management IC for Li-Ion Powered Systems ***NEW!***	32-QFN	1056.25/250		
TPS650241RHBT	296-22476-1-ND	Power Management IC for Li-Ion Powered Systems ***NEW!***	32-QFN	7.20	5.76	4.86
TPS650241RHBT	296-22476-2-ND	Power Management IC for Li-Ion Powered Systems ***NEW!***	32-QFN	1170.00250		
TPS650242RHBT	296-22477-1-ND	Power Management IC for Li-Ion Powered Systems ***NEW!***	32-QFN	6.50	5.20	4.39
TPS650242RHBT	296-22477-2-ND	Power Management IC for Li-Ion Powered Systems ***NEW!***	32-QFN	1056.25/250		
TPS650243RHBT	296-23066-1-ND	Power Management IC for Li-Ion Powered Systems ***NEW!***	32-QFN	7.20	5.76	4.86
TPS650243RHBT	296-23066-2-ND	Power Management IC for Li-Ion Powered Systems ***NEW!***	32-QFN	1170.00/250		
TPS650244RHBT	296-23067-1-ND	Power Management IC for Li-Ion Powered Systems ***NEW!***	32-QFN	6.50	5.20	4.39
TPS650244RHBT	296-23067-2-ND	Power Management IC for Li-Ion Powered Systems ***NEW!***	32-QFN	1056.25/250		
TPS650245RHBT	296-23068-1-ND	Power Management IC for Li-Ion Powered Systems ***NEW!***	32-QFN	6.50	5.20	4.39
TPS650245RHBT	296-23068-2-ND	Power Management IC for Li-Ion Powered Systems ***NEW!***	32-QFN	1056.25/250		
UC2906DW	296-2228-5-ND	Lead-Acid Battery Charger	16-SOIC	5.50	4.40	3.72
UC2909DW	296-12527-5-ND	Switchmode Lead-Acid Battery Charger	20-SOIC	6.10	4.88	4.12
UC2909N	296-2229-5-ND	Lead-Acid Battery Charger	20-Dip	6.10	4.88	4.12
UC3906DW	296-2230-5-ND	Lead-Acid Battery Charger	16-SOIC	5.50	4.40	3.72
UC3906N	296-11621-ND	Lead-Acid Battery Charger	16-Dip	5.50	4.40	3.72
UC3906Q	296-12193-5-ND	Lead-Acid Battery Charger	20-PLCC	5.50	4.40	3.72
UC3909DW	296-11345-5-ND	Lead-Acid Switchmode Charge Management	20-SOIC	6.10	4.88	4.12
UC3909N	296-2232-5-ND	Lead-Acid Switchmode Charge Management	20-Dip	6.10	4.88	4.12

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC3911DP-1	296-11540-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOIC	4.84	3.87	3.01
UCC3911DP-2	296-11541-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOIC	4.84	3.87	3.01
UCC3911DP-3	296-11542-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOIC	4.84	3.87	3.01
UCC3911DP-4	296-11543-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOIC	4.84	3.87	3.01
UCC3956DW	296-11560-5-ND	Lithium-Ion Battery Circuit	20-SOIC	4.61	3.69	2.87
UCC3956N	296-2233-5-ND	Lithium-Ion Battery Circuit	20-Dip	4.61	3.69	2.87
UCC3957M-1	296-2234-5-ND	Lithium-Ion Protector Circuit	16-SSOP	3.49	2.79	2.17
UCC3957M-2	296-2235-5-ND	Lithium-Ion Protector Circuit	16-SSOP	3.49	2.79	2.17
UCC3957M-3	296-2236-5-ND	Lithium-Ion Protector Circuit	16-SSOP	3.49	2.79	2.17
UCC3957M-4	296-2237-5-ND	Lithium-Ion Protector Circuit	16-SSOP	3.49	2.79	2.17

Buck Regulators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC33063ADR	296-17763-1-ND	1.5A Boost/Buck/Inverting Switching Regulator	8-SOIC	.93	.78	.62
MC33063ADR	296-17763-2-ND	1.5A Boost/Buck/Inverting Switching Regulator	8-SOIC	1007.50/2,500		
MC33063ADRJR	296-21744-1-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SON	1.05	.88	.70
MC33063ADRJR	296-21744-2-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SON	466.00/1,000		
MC33063AMDREP	296-22182-1-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator ***NEW!***	8-SOIC	2.25	1.80	1.40
MC33063AMDREP	296-22182-2-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator ***NEW!***	8-SOIC	3150.00/2,500		
MC33063AP	296-17764-5-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-Dip	.93	.78	.62
MC33063AQDRQ1	296-18690-1-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SOIC	1.09	.91	.73
MC33063AQDRQ1	296-18690-2-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SOIC	1182.50/2,500		
MC34063ADR	296-17765-1-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SOIC	.78	.65	.52
MC34063ADR	296-17765-2-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SOIC	845.00/2,500		
MC34063ADRJR	296-21745-1-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SON	.87	.73	.58
MC34063ADRJR	296-21745-2-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-SON	386.00/1,000		
MC34063AP	296-17764-5-ND	1.5A Peak Boost/Buck/Inverting Switching Regulator	8-Dip	.93	.78	.62
TPIC74100QPWPRQ1	296-21657-1-ND	Buck/Boost Switch Mode Reg.	20-HTSSOP	3.83	3.06	2.38
TPIC74100QPWPRQ1	296-21657-2-ND	Buck/Boost Switch Mode Reg.	20-HTSSOP	4336.00/2,000		
TPPM0115D	296-11987-5-ND	Switch Mode Sync. Buck Controller	8-SOIC	3.42	2.74	2.13
TPPM0115DR	296-11987-2-ND	Switch Mode Sync. Buck Controller	8-SOIC	4787.50/2,500		
TPS5110PW	296-15672-5-ND	Sync. Buck PWM Controller with NMOS LDO Controller	24-TSSOP	5.29	4.23	3.29
TPS5120DBT	296-10925-ND	Dual Out, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	5.60	4.48	3.78
TPS5120MDBTREP	296-21272-1-ND	Dual Out, 2-Phase Sync. Buck DC/DC Controller ***NEW!***	30-TSSOP	8.86	7.98	7.08
TPS5120MDBTREP	296-21272-2-ND	Dual Out, 2-Phase Sync. Buck DC/DC Controller ***NEW!***	30-TSSOP	13140.00/2,000		
TPS5130PT	296-15673-ND	Triple Sync. Buck Controller with NMOS LDO Controller	48-TQFP	5.70	4.56	3.85
TPS5210DW	296-2021-5-ND	Sync. Buck Controller	28-SOIC	7.00	5.60	4.73
TPS5210EVM-126	296-10928-ND	Evaluation Module for TPS5210	—	99.78	—	—
TPS5210PWP	296-10929-5-ND	Synchronous Buck Controller	28-HTSSOP	7.10	5.68	4.80
TPS54073EVM-098	296-21155-ND	Evaluation Module for TPS54073	—	50.00	—	—
TPS54073PWP	296-17775-ND	2.2-4V, 14A Sync. Buck Converter	28-HTSSOP	8.83	7.95	7.05
TPS54286PWPR	296-23086-1-ND	2A Dual Non-Sync. Converter ***NEW!***	14-HTSSOP	5.40	4.32	3.36
TPS54286PWPR	296-23086-2-ND	2A Dual Non-Sync. Converter ***NEW!***	14-HTSSOP	6120.00/2,000		
TPS54383PWPR	296-23087-1-ND	3A Dual Non-Sync. Converter ***NEW!***	14-HTSSOP	5.30	4.24	3.58
TPS54383PWPR	296-23087-2-ND	3A Dual Non-Sync. Converter ***NEW!***	14-HTSSOP	6626.00/2,000		
TPS54872EVM-222	296-20601-ND	Evaluation Module for TPS54872	—	10.20	—	—
TPS54872PWP	296-15674-5-ND	Synchronous PWM Switcher	28-TSSOP	7.30	5.84	4.93
TPS54972EVM-222	296-20605-ND	Evaluation Module for TPS54972	—	10.20	—	—
TPS54972PWP	296-15675-5-ND	Synchronous PWM Switcher	28-TSSOP	7.30	5.84	4.93
TPS5615PWP	296-2022-5-ND	Buck Regulator Controller	28-HTSSOP	7.40	5.92	5.00
TPS5618PWP	296-2023-5-ND	Buck Regulator Controller	28-HTSSOP	7.40	5.92	5.00
TPS5625PWP	296-2024-5-ND	Buck Regulator Controller	28-HTSSOP	7.40	5.92	5.00
TPS5633EVM-104	296-10943-ND	Evaluation Module for TPS5633	—	49.38	—	—
TPS5633PWP	296-2025-5-ND	Buck Regulator Controller	28-HTSSOP	7.40	5.92	5.00
TPS40000DGQ	296-13051-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.48	1.98	1.49
TPS40001DGQ	296-13052-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.10	1.68	1.26
TPS40002DGQ	296-13053-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.48	1.98	1.49
TPS40003DGQ	296-13054-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.10	1.68	1.26
TPS40004DGQ	296-15715-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.30	1.84	1.43
TPS40005DGQ	296-15716-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.48	1.98	1.49
TPS40007DGQ	296-17067-ND	Low-Input, High-Efficiency, Sync. Buck Controller	10-MSOP	2.70	2.16	1.68
TPS40007EVM-001	296-18949-ND	Evaluation Module for TPS40007-001	—	50.00	—	—
TPS40009DGQ	296-17068-ND	Low-Input, High-Efficiency, Sync. Buck Controller	10-MSOP	2.70	2.16	1.68
TPS40009EVM-001	296-18950-ND	Evaluation Module for TPS40009-001	—	50.00	—	—
TPS40020PWP	296-16713-ND	Low-Input, Voltage Mode, Sync. Buck Controller	16-HTSSOP	3.26	2.61	2.03
TPS40021PWP	296-16714-ND	Low-Input, Voltage Mode, Sync. Buck Controller	16-HTSSOP	2.59	2.07	1.61
TPS40021EVM-001	296-18951-ND	Evaluation Module for TPS40021-001	—	50.00	—	—
TPS40050PWP	296-15042-5-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	3.15	2.52	1.96
TPS40050QPWPRQ1	296-16963-1-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	3.71	2.97	2.31
TPS40050QPWPRQ1	296-16963-2-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	4208.00/2,000		
TPS40051PWP	296-15043-5-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	3.15	2.52	1.96
TPS40051QPWPRQ1	296-16964-1-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	3.71	2.97	2.31
TPS40051QPWPRQ1	296-16964-2-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	4208.00/2,000		
TPS40053PWP	296-15044-5-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	3.15	2.52	1.96
TPS40054PWP	296-18952-5-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	3.71	2.97	2.31
TPS40055EVM-001	296-18953-ND	Evaluation Module for TPS40055-001	—	50.00	—	—
TPS40055EVM-002	296-18954-ND	Evaluation Module for TPS40055-002	—	50.00	—	—
TPS40055MPWPREP	296-22445-1-ND	Wide-Input Sync. Buck Controller ***NEW!***	16-HTSSOP	5.18	4.14	3.22
TPS40055MPWPREP	296-22445-2-ND	Wide-Input Sync. Buck Controller ***NEW!***	16-HTSSOP	5866.00/2,000		
TPS40055PWP	296-17510-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	3.71	2.97	2.31
TPS40056PWP	296-19709-ND	Wide-Input Sync. Tracking Buck Controller	16-HTSSOP	3.04	2.43	1.89
TPS40057PWP	296-17235-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	3.71	2.97	2.31
TPS40060EVM	296-18955-ND	Evaluation Module for TPS40060	—	50.00	—	—
TPS40060PWP	296-14389-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	3.83	3.06	2.38
TPS40061PWP	296-14390-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	3.83	3.06	2.38
TPS40070PWP	296-16773-ND	Synchronous Buck Controller	16-HTSSOP	2.59	2.07	1.61
TPS40071EVM-001	296-18956-ND	Evaluation Module for TPS40071-001	—	49.38	—	—
TPS40071PWP	296-16774-ND	Synchronous Buck Controller	16-HTSSOP	3.04	2.43	1.89
TPS40074EVM001	296-18726-ND	Evaluation Module for TPS40074	—	50.00	—	—
TPS40074RHLR	296-18670-1-ND	Midrange Input Sync. Buck Controller	20-QFN	3.04	2.43	1.89
TPS40074RHLR	296-18670-2-ND	Midrange Input Sync. Buck Controller	20-QFN	5103.00/3,000		
TPS40075RHLT	296-19886-1-ND	Midrange Input Sync. Buck Controller	20-QFN	4.05	3.24	2.52
TPS40075RHLT	296-19886-2-ND	Midrange Input Sync. Buck Controller	20-QFN	598.50/250		
TPS40090RHDR	296-19887-1-ND	2, 3, or 4-Phase Prog. Sync. Buck Controller	28-QFN	4.28	3.42	2.66
TPS40090RHDR	296-19887-2-ND	2, 3, or 4-Phase Prog. Sync. Buck Controller	28-QFN	7182.00/3,000		
TPS40091PW	296-17212-5-ND	Tri-State 2, 3, or 4-Phase Prog. Sync. Buck Controller	24-TSSOP	4.28	3.42	2.66
TPS40091RHDR	296-19888-1-ND	Tri-State 2, 3, or 4-Phase Prog. Sync. Buck Controller	28-QFN	4.28	3.42	2.66
TPS40091RHDR	296-19888-2-ND	Tri-State 2, 3, or 4-Phase Prog. Sync. Buck Controller	28-QFN	7182.00/3,000		
TPS40100RGET	296-18077-1-ND	Mid-Range Input Sync. Buck Controller	24-QFN	4.84	3.87	3.01
TPS40100RGET	296-18077-2-ND	Mid-Range Input Sync. Buck Controller	24-QFN	715.00/250		
TPS40101RGER	296-21271-1-ND	Mid-Range Input Sync. Buck Controller	24-QFN	4.39	3.51	2.73
TPS40101RGER	296-21271-2-ND	Mid-Range Input Sync. Buck Controller	24-QFN	7371.00/3,000		
TPS40130DBT	296-17348-ND	2-Phase Sync. Buck Controller	30-TSSOP	4.60	3.68	3.11
TPS40130EVM-001	296-17491-ND	Evaluation Module for TPS40130	—	49.38	—	—
TPS40130RHBR	296-19360-1-ND	2-Phase Sync. Buck Controller	32-QFN	5.40	4.32	3.65
TPS40130RHBR	296-19360-2-ND	2-Phase Sync. Buck Controller	32-QFN	8556.00/3,000		
TPS40130RHBT	296-18727-1-ND	2-Phase Sync. Buck Controller	32-QFN	5.74	4.59	3.57
TPS40130RHBT	296-18727-2-ND	2-Phase Sync. Buck Controller	32-QFN	828.75/250		
TPS40131RHBR	296-21675-1-ND	2-Phase Sync. Buck Controller	32-QFN	5.40	4.32	3.65
TPS40131RHBR	296-21675-2-ND	2-Phase Sync. Buck Controller	32-QFN	10044.00/3,000		
TPS40132RHBT	296-23328-1-ND	2-Phase Sync. Buck Controller ***NEW!***	32-QFN	6.50	5.20	4.39
TPS40132RHBT	296-23328-2-ND	2-Phase Sync. Buck Controller ***NEW!***	32-QFN	1056.25/250		
TPS40190DRCR	296-18340-1-ND	Synchronous Buck Controller	10-SON	2.25	1.80	1.40
TPS40190DRCR	296-18340-2-ND	Synchronous Buck Controller	10-SON	3780.00/3,000		
TPS40190EVM-001	296-19477-ND	Evaluation Module for TPS40190-001	—	49.38	—	—
TPS40192DRCR	296-21676-1-ND	4.5V to 18V Input Sync. Buck Controller	10-SON	2.36	1.89	1.47
TPS40192DRCR	296-21676-2-ND	4.5V to 18V Input Sync. Buck Controller	10-SON	3969.00/3,000		
TPS40193DRCR	296-21677-1-ND	4.5V to 18V Input Sync. Buck Controller	10-SON	2.36	1.89	1.47
TPS40193DRCR	296-21677-2-ND	4.5V to 18V Input Sync. Buck Controller	10-SON	3969.00/3,000		
TPS40195PWR	296-21617-1-ND	4.5V to 20V Sync. Buck Controller	16-TSSOP	3.38	2.70	2.10
TPS40195PWR	296-21617-2-ND	4.5V to 20V Sync. Buck Controller	16-TSSOP	3826.00/2,000		
TPS40195RGYR	296-22070-1-ND	4.5V to 20V Sync. Buck Controller ***NEW!***	16-QFN	3.38	2.70	2.10
TPS40195RGYR	296-22070-2-ND	4.5V to 20V Sync. Buck Controller ***NEW!***	16-QFN	5670.00/3,000		
TPS40222DRPT	296-19361-1-ND	1.6A, 1.25MHz Buck Converter	6-SON	2.00	1.60	1.20
TPS40222DRPT	296-19361-2-ND	1.6A, 1.25MHz Buck Converter	6-SON	280.00/250		
TPS40222EVM-001	296-21154-ND	Evaluation Module for TPS40222	—	25.50	—	—
TPS51100DGQ	296-17851-5-ND	3A Sink/Source DDR Termination Regulator	10-MSOP	2.00	1.60	1.20
TPS51100EVM-001	296-17268-ND	Evaluation Module for TPS51100	—	50.00	—	—
TPS51116EVM-001	296-18959-ND	Evaluation Module for TPS51116-001	—	50.00	—	—
TPS51116PWP	296-17243-ND	Sync. Buck Controller	20-HTSSOP	4.05	3.24	2.52
TPS51116RGE	296-18584-5-ND	Complete DDR/DDR2 Memory Power Solution Sync. Buck Controller	24-QFN	2.70	2.16	1.68
TPS51116RGET	296-18638-1-ND	Complete DDR/DDR2 Memory Power Solution Sync. Buck Controller	24-QFN	4.50	3.60	2.80
TPS51116RGET	296-18638-2-ND	Complete DDR/DDR2 Memory Power Solution Sync. Buck Controller	24-QFN	665.00/250		
TPS51117RGYR	296-19889-1-ND	Single Sync. Buck Step-Down Controller	14-QFN	2.70	2.16	1.68
TPS51117RGYR	296-19889-2-ND	Single Sync. Buck Step-Down Controller	14-QFN	1530.00/1,000		
TPS51125RGET	296-22712-1-ND	Dual Sync. Buck Controller ***NEW!***	24-QFN	5.40	4.32	3.36
TPS51125RGET	296-22712-2-ND	Dual Sync. Buck Controller ***NEW!***	24-QFN	798.00/250		
TPS51220RHBR	296-22940-1-ND	Dual Sync. Buck Regulator ***NEW!***	32-QFN	5.20	4.16	3.51
TPS51220RHBR	296-22940-2-ND	Dual Sync. Buck Regulator ***NEW!***	32-QFN	9672.00/3,000		
TPS51221RTVR	296-22888-1-ND	Dual Sync. Buck Reg. Controller with 2 LDOs ***NEW!***	32-QFN	5.20	4.16	3.51
TPS51221RTVR	296-22888-2-ND	Dual Sync. Buck Reg. Controller with 2 LDOs ***NEW!***	32-QFN	9672.00/3,000		
TPS54010PWP	296-17288-5-ND	14A Output Sync. Buck PWM Switcher	28-HTSSOP	8.50	6.80	5.74
TPS54110PWP	296-17086-ND	3V to 6V Input, 1.5A Sync. Buck PWM Switcher	20-HTSSOP	4.28	3.42	2.66
TPS54310EVM	296-13574-ND	Evaluation Module for TPS54310	—	10.20	—	—
TPS54310PWP	296-12509-5-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher	20-HTSSOP	5.06	4.05	3.15
TPS54310QPWPRQ1	296-22941-1-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	5.20	4.16	3.51
TPS54310QPWPRQ1	296-22941-2-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	6500.00/2,000		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS54311MPWPREP	296-22448-1-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	9.40	7.52	6.35
TPS54311MPWPREP	296-22448-2-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	11750.00/2,000		
TPS54311PWP	296-12679-5-ND	3V to 6V Input, 3A Output Sync. Buck PWM Converter	20-HTSSOP	5.06	4.05	3.15
TPS54312MPWPREP	296-22449-1-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	9.40	7.52	6.35
TPS54312MPWPREP	296-22449-2-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	11750.00/2,000		
TPS54312PWP	296-12680-5-ND	3V to 6V Input, 3A Output Sync. Buck PWM Converter	20-HTSSOP	5.06	4.05	3.15
TPS54312QPWPREP	296-22450-1-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	2.25	1.80	1.40
TPS54312QPWPREP	296-22450-2-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	2550.00/2,000		
TPS54313MPWPREP	296-22451-1-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	9.40	7.52	6.35
TPS54313MPWPREP	296-22451-2-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	11750.00/2,000		
TPS54313PWP	296-12681-5-ND	3V to 6V Input, 3A Output Sync. Buck PWM Converter	20-HTSSOP	5.06	4.05	3.15
TPS54314EVM	296-13575-ND	Evaluation Module for TPS54314	—	10.20	—	—
TPS54314MPWPREP	296-22452-1-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	9.40	7.52	6.35
TPS54314MPWPREP	296-22452-2-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	11750.00/2,000		
TPS54314PWP	296-12682-5-ND	3V to 6V Input, 3A Output Sync. Buck PWM Converter	20-HTSSOP	5.06	4.05	3.15
TPS54315MPWPREP	296-22453-1-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	9.40	7.52	6.35
TPS54315MPWPREP	296-22453-2-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	11750.00/2,000		
TPS54315PWP	296-12683-5-ND	3V to 6V Input, 3A Output Sync. Buck PWM Converter	20-HTSSOP	5.06	4.05	3.15
TPS54315QPWPREP	296-22454-1-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	2.25	1.80	1.40
TPS54315QPWPREP	296-22454-2-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	2550.00/2,000		
TPS54315QPWPRQ1	296-23074-1-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	5.20	4.16	3.51
TPS54315QPWPRQ1	296-23074-2-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	6500.00/2,000		
TPS54316MPWPREP	296-22455-1-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	9.40	7.52	6.35
TPS54316MPWPREP	296-22455-2-ND	3V to 6V Input, 3A Output Sync. Buck PWM Switcher ***NEW!***	20-HTSSOP	11750.00/2,000		
TPS54316PWP	296-12684-5-ND	3V to 6V Input, 3A Output Sync. Buck PWM Converter	20-HTSSOP	5.06	4.05	3.15
TPS54317EVM-159	296-21157-ND	Evaluation Module for TPS54317	—	10.20	—	—
TPS54350MPWPREP	296-19527-1-ND	4.5V to 20V Input, 3A Output Sync. PWM Switcher	16-HTSSOP	7.80	6.24	5.27
TPS54350MPWPREP	296-19527-2-ND	4.5V to 20V Input, 3A Output Sync. PWM Switcher	16-HTSSOP	9750.00/2,000		
TPS54352PWP	296-17069-ND	4.5V to 20V Input, 3A Output, Sync. PWM Converter	16-HTSSOP	4.16	3.33	2.59
TPS54353PWP	296-17070-ND	4.5V to 20V Input, 3A Output, Sync. PWM Converter	16-HTSSOP	4.16	3.33	2.59
TPS54354PWP	296-17071-ND	4.5V to 20V Input, 3A Output, Sync. PWM Converter	16-HTSSOP	4.16	3.33	2.59
TPS54355PWP	296-17072-ND	4.5V to 20V Input, 3A Output, Sync. PWM Converter	16-HTSSOP	4.16	3.33	2.59
TPS54356EVM-058	296-18963-ND	Evaluation Module for TPS54356-058	—	10.20	—	—
TPS54356PWP	296-17073-ND	4.5V to 20V Input, 3A Output, Sync. PWM Converter	16-HTSSOP	4.16	3.33	2.59
TPS54357PWP	296-17074-ND	4.5V to 20V Input, 3A Output, Sync. PWM Converter	16-HTSSOP	4.16	3.33	2.59
TPS54373EVM-237	296-18964-ND	Evaluation Module for TPS54373-237	—	10.20	—	—
TPS54373PWP	296-14327-5-ND	3A Sync. Buck Switcher	20-HTSSOP	5.06	4.05	3.15
TPS54380EVM-001	296-18965-ND	Evaluation Module for TPS54380-001	—	10.20	—	—
TPS54380PWP	296-14391-ND	3A Sync. Buck PWM Switcher	20-HTSSOP	5.06	4.05	3.15
TPS54610EVM-192	296-13576-ND	Evaluation Module for TPS54610	—	10.20	—	—
TPS54610EVM-213	296-20596-ND	Evaluation Module for TPS54610	—	10.20	—	—
TPS54610MPWPREP	296-19433-1-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher ***NEW!***	28-HTSSOP	10.61	9.56	8.48
TPS54610MPWPREP	296-19433-2-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher ***NEW!***	28-HTSSOP	15734.00/2,000		
TPS54612QPWPRQ1	296-21678-1-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	7.40	5.92	5.00
TPS54612QPWPRQ1	296-21678-2-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9250.00/2,000		
TPS54613MPWPREP	296-19528-1-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	10.61	9.56	8.48
TPS54613MPWPREP	296-19528-2-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	15734.00/2,000		
TPS54614MPWPREP	296-22459-1-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher ***NEW!***	28-HTSSOP	2.25	1.80	1.40
TPS54614MPWPREP	296-22459-2-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher ***NEW!***	28-HTSSOP	2550.00/2,000		
TPS54614QPWPRQ1	296-21679-1-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	7.40	5.92	5.00
TPS54614QPWPRQ1	296-21679-2-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9250.00/2,000		
TPS54615MPWPREP	296-19529-1-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	10.61	9.56	8.48
TPS54615MPWPREP	296-19529-2-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	15734.00/2,000		
TPS54615QPWPRQ1	296-21680-1-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	7.40	5.92	5.00
TPS54615QPWPRQ1	296-21680-2-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher	28-HTSSOP	9250.00/2,000		
TPS54616MPWPREP	296-22460-1-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher ***NEW!***	28-HTSSOP	2.25	1.80	1.40
TPS54616MPWPREP	296-22460-2-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher ***NEW!***	28-HTSSOP	2550.00/2,000		
TPS54616QPWPRQ1	296-22461-1-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher ***NEW!***	28-HTSSOP	7.40	5.92	5.00
TPS54616QPWPRQ1	296-22461-2-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher ***NEW!***	28-HTSSOP	9250.00/2,000		
TPS54673EVM	296-20598-ND	Evaluation Module for TPS54673	—	10.20	—	—
TPS54673PWP	296-13828-5-ND	3V to 6V Input, 6A Sync. Buck Switcher	28-HTSSOP	6.40	5.12	4.32
TPS54680EVM	296-20599-ND	Evaluation Module for TPS54680	—	50.00	—	—
TPS54680PWP	296-13829-5-ND	3V to 6V Input, 6A Sync. Buck PWM Switcher (Swift™)	28-HTSSOP	6.40	5.12	4.32
TPS54680QPWPREP	296-18153-1-ND	3V to 6V Input, 6A Sync. Buck PWM Switcher (Swift™)	28-HTSSOP	8.48	7.64	6.77
TPS54680QPWPREP	296-18153-2-ND	3V to 6V Input, 6A Sync. Buck PWM Switcher (Swift™)	28-HTSSOP	12572.00/2,000		
TPS54810EVM-213	296-20600-ND	Evaluation Module for TPS54810	—	10.20	—	—
TPS54810PWP	296-12715-5-ND	Sync. Buck PWM Converter	28-HTSSOP	7.30	5.84	4.93
TPS54873EVM	296-20602-ND	Evaluation Module for TPS54873	—	10.20	—	—
TPS54873PWP	296-13830-5-ND	4V to 6V Input, 8A Sync. Buck Switcher	28-HTSSOP	7.30	5.84	4.93
TPS54880EVM	296-20603-ND	Evaluation Module for TPS54880	—	50.00	—	—
TPS54880PWP	296-13831-5-ND	4V to 6V Input, 8A Sync. Buck PWM Switcher (Swift™)	28-HTSSOP	7.30	5.84	4.93
TPS54973EVM-017	296-18966-ND	Evaluation Module for TPS54973-017	—	10.20	—	—
TPS54973PWP	296-14414-5-ND	9A Sync. Buck Switcher	28-HTSSOP	7.30	5.84	4.93
TPS54980EVM-022	296-18967-ND	Evaluation Module for TPS54980-022	—	10.20	—	—
TPS54980PWP	296-14415-5-ND	9A Sync. Buck PWM Switcher	28-HTSSOP	7.30	5.84	4.93
TPS60240DGKR	296-12510-1-ND	3.3V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.59	—	—
TPS60240DGKR	296-12510-2-ND	3.3V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	3622.50/2,500		
TPS60241DGKT	296-12241-1-ND	Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.81	—	—
TPS60241DGKT	296-12241-2-ND	Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	415.75/250		
TPS60241EVM-194	296-13579-ND	Evaluation Module for TPS60241	—	50.00	—	—
TPS60242DGKT	296-12511-5-ND	2.7V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.81	—	—
TPS60243DGKT	296-12512-5-ND	3V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.81	—	—
TPS62100D	296-10976-5-ND	Adjustable Sync. Buck Converter	8-SOP	4.28	3.42	2.66
TPS62101D	296-10977-5-ND	Adjustable Sync. Buck Converter	8-SOP	4.28	3.42	2.66
TPS62102D	296-10978-5-ND	Adjustable Sync. Buck Converter	8-SOP	4.28	3.42	2.66
TPS62102EVM	296-13589-ND	Evaluation Module for TPS62102	—	50.00	—	—
TPS62103D	296-10979-5-ND	Adjustable Sync. Buck Converter	8-SOP	4.28	3.42	2.66
TPS63000DRCR	296-19641-1-ND	Adj. Single Inductor Buck Boost Converter	10-SON	5.51	4.41	3.43
TPS63000DRCR	296-19641-2-ND	Adj. Single Inductor Buck Boost Converter	10-SON	9261.00/3,000		
TPS63000EVM-148	296-19642-ND	Evaluation Module for TPS63000	—	50.00	—	—
TPS63001DRCR	296-19643-1-ND	3.3V Single Inductor Buck Boost Converter	10-SON	5.51	4.41	3.43
TPS63001DRCR	296-19643-2-ND	3.3V Single Inductor Buck Boost Converter	10-SON	9261.00/3,000		
TPS63002DRCR	296-19644-1-ND	5V Single Inductor Buck Boost Converter	10-SON	5.51	4.41	3.43
TPS63002DRCR	296-19644-2-ND	5V Single Inductor Buck Boost Converter	10-SON	9261.00/3,000		
UCC2541PWP	296-19371-ND	High Efficiency Sync. Buck PWM Controller	20-HTSSOP	3.26	2.61	2.03
UCC2541RHBR	296-19372-1-ND	High Efficiency Sync. Buck PWM Controller	32-QFN	3.26	2.61	2.03
UCC2541RHBR	296-19372-2-ND	High Efficiency Sync. Buck PWM Controller	32-QFN	5481.00/3,000		
UCC3585D	296-11448-5-ND	Low Voltage Buck Controller	16-SOIC	2.93	2.34	1.82
UCC3585EVM-014	296-11449-ND	Evaluation Module for UCC3585	—	49.38	—	—
UCC3585M	296-11450-5-ND	Low Voltage Buck Controller	16-SSOP	2.93	2.34	1.82
UCC3585N	296-11451-5-ND	Low Voltage Buck Controller	16-Dip	2.93	2.34	1.82
UCC27221PWP	296-14216-5-ND	Predictive Sync. Buck Driver	14-HTSSOP	3.04	2.43	1.89
UCC27222PWP	296-14217-5-ND	Predictive Sync. Buck Driver	14-HTSSOP	3.04	2.43	1.89
UCC27223PWP	296-19035-5-ND	Predictive Sync. Buck Driver	14-HTSSOP	3.49	2.79	2.17
UCD7230PWPR	296-21688-1-ND	Digital Control Compatible Sync. Buck Gate Driver	20-HTSSOP	1.50	1.20	.90
UCD7230PWPR	296-21688-2-ND	Digital Control Compatible Sync. Buck Gate Driver	20-HTSSOP	1560.00/2,000		
UCD7230RGWR	296-21689-1-ND	Digital Control Compatible Sync. Buck Gate Driver	20-QFN	1.50	1.20	.90
UCD7230RGWR	296-21689-2-ND	Digital Control Compatible Sync. Buck Gate Driver	20-QFN	2304.00/3,000		
UCD9112RHBT	296-22539-1-ND	Digital Dual Phase Sync. Buck Controller ***NEW!***	32-QFN	4.28	3.42	2.66
UCD9112RHBT	296-22539-2-ND	Digital Dual Phase Sync. Buck Controller ***NEW!***	32-QFN	631.75/250		
DC-to-DC Converters						
0722MG	0722MG-ND	Dual-Isolated DC/DC Converter	20-OmniPak	324.30	302.68	281.06
DCP021212DU	296-9446-5-ND	2W Unregulated DC/DC Converter	28-SOIC	11.75	—	—
DCP021212U	296-9447-5-ND	2W Unregulated DC/DC Converter	28-SOIC	11.75	—	—
DCP021515U	296-9448-5-ND	2W Unregulated DC/DC Converter	28-SOIC	11.75	—	—
DCP022405U	296-12367-5-ND	2W DC/DC Conv., 24V In, ±5V Out	28-SOIC	11.75	—	—
DCP022412DP	296-19409-5-ND	2W Unregulated DC/DC Converter	14-Dip	11.58	—	—
DCP022415DU	296-9449-5-ND	2W Unregulated DC/DC Converter	28-SOIC	11.75	—	—
DCP022418DP	296-19410-5-ND	2W Unregulated DC/DC Converter	14-Dip	11.58	—	—
DCP010505BP	DCP010505BP-ND	Isolated DC/DC Conv., 5V In, 5V Out	14-Dip	8.91	—	—
DCP010505BP-U	DCP010505BP-U-ND	Isolated DC/DC Converter, 5V In, 5V Out	7-SOP	8.91	—	—
DCP010505DBP	DCP010505DBP-ND	Isolated DC/DC Converter, 5V In, Dual ±5V Out	14-Dip	9.83	—	—
DCP010505DBP-U	DCP010505DBP-U-ND	Isolated DC/DC Converter, 5V In, Dual ±5V Out	7-SOP	9.83	—	—
DCP010507DBPUE4	296-18686-5-ND	Miniature 1W Isolated Unregulated DC/DC Converters	7-SOP	9.83	—	—

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DCP010507DBPE4	296-18687-5-ND	Miniature 1W Isolated Unregulated DC/DC Converters	7-PDip	9.83	—	—
DCP010512BP	DCP010512BP-ND	Isolated DC-DC Converter, 5V In, 12V Out	14-Dip	8.91	—	—
DCP010512BP-U	DCP010512BP-U-ND	Isolated DC/DC Converter, 5V In, 12V Out	7-SOP	8.91	—	—
DCP010512DBP	DCP010512DBP-ND	Isolated DC/DC Converter, 5V In, Dual 12V Out	14-Dip	9.83	—	—
DCP010512DBP-U	DCP010512DBP-U-ND	Isolated DC/DC Converter, 5V In, Dual 12V Out	7-SOP	9.83	—	—
DCP010515BP	DCP010515BP-ND	Isolated DC/DC Converter, 5V In, 15V Out	14-Dip	8.91	—	—
DCP010515BP-U	DCP010515BP-U-ND	Isolated DC/DC Converter, 5V In, 15V Out	7-SOP	8.91	—	—
DCP010515DBP	DCP010515DBP-ND	Isolated DC/DC Converter, 5V In, Dual 15V Out	14-Dip	9.83	—	—
DCP010515DBP-U	DCP010515DBP-U-ND	Isolated DC/DC Converter, 5V In, Dual 15V Out	7-SOP	8.91	—	—
DCP011512DBP	DCP011512DBP-ND	Isolated DC/DC Converter, 15V In, Dual ±12V Out	14-Dip	9.83	—	—
DCP011512DBP-U	DCP011512DBP-U-ND	Isolated DC/DC Converter, 15V In, Dual ±12V Out	7-SOP	9.83	—	—
DCP011515DBP	DCP011515DBP-ND	Isolated DC/DC Converter, 15V In, Dual ±15V Out	14-Dip	9.83	—	—
DCP011515DBP-U	DCP011515DBP-U-ND	Isolated DC/DC Converter, 15V In, Dual ±15V Out	7-SOP	9.83	—	—
DCP012405BP	DCP012405BP-ND	Isolated DC/DC Converter, 24V In, 5V Out	14-Dip	8.91	—	—
DCP012405BP-U	DCP012405BP-U-ND	Isolated DC/DC Converter, 24V In, 5V Out	7-SOP	8.91	—	—
DCP012415DBP	DCP012415DBP-ND	Isolated DC/DC Converter, 24V In, Dual ±15V Out	14-Dip	9.83	—	—
DCP012415DBP-U	DCP012415DBP-U-ND	Isolated DC/DC Converter, 24V In, Dual ±15V Out	7-SOP	9.83	—	—
DCP020503P	DCP020503P-ND	2W DC/DC Converter, 5V In, 3V Out	14-Dip	11.58	—	—
DCP020503U	DCP020503U-ND	2W DC/DC Converter, 5V In, 3V Out	28-SOIC	11.75	—	—
DCP020505P	DCP020505P-ND	2W DC/DC Converter, 5V In, 5V Out	14-Dip	11.58	—	—
DCP020505U	DCP020505U-ND	2W DC/DC Converter, 5V In, 5V Out	28-SOIC	11.75	—	—
DCP020507P	DCP020507P-ND	2W DC/DC Converter, 5V In, 7V Out	14-Dip	11.58	—	—
DCP020507U	DCP020507U-ND	2W DC/DC Converter, 5V In, 7V Out	28-SOIC	11.75	—	—
DCP020509P	DCP020509P-ND	2W DC/DC Converter, 5V In, 9V Out	14-Dip	11.58	—	—
DCP020509U	DCP020509U-ND	2W DC/DC Converter, 5V In, 9V Out	28-SOIC	11.75	—	—
DCP020515DP	DCP020515DP-ND	2W DC/DC Converter, 5V In, ±15V Out	14-Dip	11.58	—	—
DCP020515DU	DCP020515DU-ND	2W DC/DC Conv., 5V In, ±15V Out	28-SOIC	11.75	—	—
DCP021205P	DCP021205P-ND	2W DC/DC Converter, 12V In, 5V Out	14-Dip	11.58	—	—
DCP021205U	DCP021205U-ND	2W DC/DC Conv., 12V In, 5V Out	28-SOIC	11.75	—	—
DCP021212DP	DCP021212DP-ND	2W DC/DC Converter, 12V In, ±12V Out	14-Dip	11.58	—	—
DCP021212P	DCP021212P-ND	2W DC/DC Converter, 12V In, 12V Out	14-Dip	11.58	—	—
DCP021515P	DCP021515P-ND	2W DC/DC Converter, 15V In, 15V Out	14-Dip	11.58	—	—
DCP022405DP	DCP022405DP-ND	2W DC/DC Converter, 24V In, ±5V Out	14-Dip	11.58	—	—
DCP022405P	DCP022405P-ND	2W DC/DC Converter, 24V In, 5V Out	14-Dip	11.58	—	—
DCP022415DP	DCP022415DP-ND	2W DC/DC Converter, 24V In, ±15V Out	14-Dip	11.58	—	—
DCR010503P	DCR010503P-ND	Isolated DC/DC Converter, 5V to 3V	18-Dip	9.91	—	—
DCR010503U	296-9450-5-ND	1W Regulated DC/DC Converter	28-SOIC	10.50	—	—
DCR010505P	DCR010505P-ND	Isolated DC/DC Converter, 5V to 5V	18-Dip	9.91	—	—
DCR010505U	296-9451-5-ND	1W Regulated DC/DC Converter	28-SOP	10.50	—	—
DCR011203P	DCR011203P-ND	DC/DC Converter, 12V to 3V	18-Dip	9.91	—	—
DCR011203U	296-9452-5-ND	1W Regulated DC/DC Converter	28-SOIC	10.50	—	—
DCR011205P	DCR011205P-ND	DC/DC Converter, 12V to 5V	18-Dip	9.91	—	—
DCR011205U	296-9453-5-ND	1W Regulated DC/DC Converter	28-SOIC	10.50	—	—
DCR012403P	296-9454-5-ND	1W Regulated DC/DC Converter	18-Dip	9.91	—	—
DCR012403U	296-9455-5-ND	1W Regulated DC/DC Converter	28-SOIC	10.50	—	—
DCR012405P	296-9456-5-ND	1W Regulated DC/DC Converter	18-Dip	9.91	—	—
DCR012405U	296-9457-5-ND	1W Regulated DC/DC Converter	28-SOIC	10.50	—	—
DCR021205P	296-9458-5-ND	2W Regulated DC/DC Converter	10-Dip	12.16	—	—
DCR021205P-U	296-18420-5-ND	2W Regulated DC/DC Converter	10-SOP	12.16	—	—
DCR022405P	296-9459-5-ND	2W Regulated DC/DC Converter	10-Dip	12.16	—	—
DCR022405P-U	296-17138-ND	2W Regulated DC/DC Converter	10-MSOP	12.16	—	—
DCV010505DP	296-13450-5-ND	Mini, Isolated DC/DC Converter, 5V In, 5V Out	14-Dip	9.83	—	—
DCV010505P	DCV010505P-ND	Mini, Isolated DC/DC Converter, 5V In, 5V Out	14-Dip	9.83	—	—
DCV010505P-U	DCV010505P-U-ND	Mini, Isolated DC/DC Converter, 5V In, 5V Out	7-SOP	9.83	—	—
DCV010512DP	DCV010512DP-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 12V Out	14-Dip	9.83	—	—
DCV010512DP-U	DCV010512DP-U-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 12V Out	7-SOP	9.83	—	—
DCV010512P	DCV010512P-ND	Mini, Isolated DC/DC Converter, 5V In, 12V Out	14-Dip	9.83	—	—
DCV010512P-U	DCV010512P-U-ND	Mini, Isolated DC/DC Converter, 5V In, 12V Out	7-SOP	9.83	—	—
DCV010515DP	DCV010515DP-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 15V Out	14-Dip	9.83	—	—
DCV010515DP-U	DCV010515DP-U-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 15V Out	7-SOP	9.83	—	—
DCV010515P	DCV010515P-ND	Mini, Isolated DC/DC Converter, 5V In, 15V Out	14-Dip	9.83	—	—
DCV010515P-U	DCV010515P-U-ND	Mini, Isolated DC/DC Converter, 5V In, 15V Out	7-SOP	9.83	—	—
DCV011512DP	DCV011512DP-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 12V Out	14-Dip	9.83	—	—
DCV011512DP-U	DCV011512DP-U-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 12V Out	7-SOP	9.83	—	—
DCV011512DP-U/700	DCV011512DP-UTR-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 12V Out	7-SOP	6880.30/700		
DCV011515DP	DCV011515DP-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 15V Out	14-Dip	9.83	—	—
DCV011515DP-U	DCV011515DP-U-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 15V Out	7-SOP	9.83	—	—
DCV011515DP-U/700	DCV011515DP-UTR-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 15V Out	7-SOP	6880.30/700		
DCV012405P	DCV012405P-ND	Mini, Isolated DC/DC Converter, 24V In, 5V Out	14-Dip	9.83	—	—
DCV012405P-U	DCV012405P-U-ND	Mini, Isolated DC/DC Converter, 24V In, 5V Out	7-SOP	9.83	—	—
DCV012405P-U/700	DCV012405P-UTR-ND	Mini, Isolated DC/DC Converter, 24V In, 5V Out	7-SOP	6880.30/700		
DCV012415DP	DCV012415DP-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	14-Dip	9.83	—	—
DCV012415DP-U	DCV012415DP-U-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	7-SOP	9.83	—	—
DCV012415DP-U/700	DCV012415DP-UCT-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	7-SOP	9.83	—	—
DCV012415DP-U/700	DCV012415DP-UTR-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	7-SOP	6880.30/700		
LT1054CDW	296-9590-5-ND	Switched-Cap Voltage Converter with Regulator	16-SOIC	2.00	1.60	1.20
LT1054CDWR	296-14618-1-ND	Switched-Cap Voltage Converter with Regulator	16-SOIC	2.00	1.60	1.20
LT1054CDWR	296-14618-2-ND	Switched-Cap Voltage Converter with Regulator	16-SOIC	2080.00/2,000		
LT1054CP	296-9591-5-ND	Switched-Cap Voltage Converter with Regulator	8-Dip	1.25	1.01	.76
LT1054IDW	296-9592-5-ND	Switched-Cap Voltage Converter with Regulator	16-SOIC	2.93	2.34	1.82
LT1054IDWR	296-17595-1-ND	Switched-Cap Voltage Converter with Regulator	16-SOIC	2.93	2.34	1.82
LT1054IDWR	296-17595-2-ND	Switched-Cap Voltage Converter with Regulator	16-SOIC	3316.00/2,000		
LT1054IP	296-17596-5-ND	Switched-Cap Voltage Converter with Regulator	8-Dip	2.93	2.34	1.82
REG710EVM-5	296-13557-ND	Evaluation Module for REG710-XX	—	50.00	—	—
REG710EVM-33	296-13556-ND	Evaluation Module for REG710-XX	—	50.00	—	—
REG710NA-2.5/250	296-12133-1-ND	2.5V, 30mA DC/DC Converter	SOT-23-6	1.78	1.42	1.07
REG710NA-2.5/250	296-12133-2-ND	2.5V, 30mA DC/DC Converter	SOT-23-6	248.50/250		
REG710NA-2.7/250	296-12134-1-ND	2.7V, 30mA DC/DC Converter	SOT-23-6	1.78	1.42	1.07
REG710NA-2.7/250	296-12134-2-ND	2.7V, 30mA DC/DC Converter	SOT-23-6	248.50/250		
REG710NA-3.3/250	296-12135-1-ND	3.3V, 30mA DC/DC Converter	SOT-23-6	1.78	1.42	1.07
REG710NA-3.3/250	296-12135-2-ND	3.3V, 30mA DC/DC Converter	SOT-23-6	248.50/250		
REG710NA-3/250	296-12136-1-ND	3.0V, 30mA DC/DC Converter	SOT-23-6	1.78	1.42	1.07
REG710NA-3/250	296-12136-2-ND	3.0V, 30mA DC/DC Converter	SOT-23-6	248.50/250		
REG710NA-5/250	296-12137-1-ND	5.0V, 30mA DC/DC Converter	SOT-23-6	1.78	1.42	1.07
REG710NA-5/250	296-12137-2-ND	5.0V, 30mA DC/DC Converter	SOT-23-6	248.50/250		
REG711EA-2.5/2K5	REG711EA2.52K5CT-ND	2.5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.25	—	—
REG711EA-2.5/2K5	REG711EA2.52K5TR-ND	2.5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2880.00/2,500		
REG711EA-2.7/2K5	REG711EA2.72K5CT-ND	2.7V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.25	—	—
REG711EA-2.7/2K5	REG711EA2.72K5TR-ND	2.7V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2880.00/2,500		
REG711EA-3/2K5	REG711EA-3/2K5CT-ND	3V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.25	—	—
REG711EA-3/2K5	REG711EA-3/2K5TR-ND	3V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2880.00/2,500		
REG711EA-3.3/250	REG711EA3.3250CT-ND	3.3V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.48	—	—
REG711EA-3.3/250	REG711EA3.3250TR-ND	3.3V, 50mA Switched-Cap DC/DC Converter	8-MSOP	346.50/250		
REG711EA-5/2K5	REG711EA-5/2K5CT-ND	5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.25	—	—
REG711EA-5/2K5	REG711EA-5/2K5TR-ND	5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2880.00/2,500		
REG711EVM-232	296-20536-ND	Evaluation Module for REG711-5	—	50.00	—	—
REG71050DDCT	296-17420-1-ND	60mA Buck/Boost Converter	TSOT-23-6	1.78	1.42	1.07
REG71050DDCT	296-17420-2-ND	60mA Buck/Boost Converter	TSOT-23-6	248.50/250		
REG71055DDCT	296-15370-1-ND	60mA Switched-Cap Buck/Boost Converter	TSOT-6	1.78	1.42	1.07
REG71055DDCT	296-15370-2-ND	60mA Switched-Cap Buck/Boost Converter	TSOT-6	248.50/250		
TL7660CDGKR	296-21855-1-ND	CMOS Voltage Converter	8-MSOP	1.26	1.05	.84
TL7660CDGKR	296-21855-2-ND	CMOS Voltage Converter	8-MSOP	1365.00/2,500		
TL7660CDR	296-21856-1-ND	CMOS Voltage Converter	8-SOIC	1.20	1.00	.80
TL7660CDR	296-21856-2-ND	CMOS Voltage Converter	8-SOIC	1300.00/2,500		
TL7660CP	296-21857-5-ND	CMOS Voltage Converter	8-Dip	1.20	1.00	.80
TL7660IDGKR	296-21858-1-ND	CMOS Voltage Converter	8-MSOP	1.35	1.13	.90
TL7660IDGKR	296-21858-2-ND	CMOS Voltage Converter	8-MSOP	1462.50/2,500		
TL7660IDR	296-21859-1-ND	CMOS Voltage Converter	8-SOIC	1.35	1.13	.90
TL7660IDR	296-21859-2-ND	CMOS Voltage Converter	8-SOIC	1462.50/2,500		
TL7660IP	296-21860-5-ND	CMOS Voltage Converter	8-Dip	1.35	1.13	.90
TPS5102IDBT	296-2260-5-ND	Dual DC/DC Controller	30-TSSOP	5.50	4.40	3.72
TPS5103EVM-136	296-10924-ND	Evaluation Module for TPS5103	—	50.00	—	—
TPS5103IDB	296-2261-5-ND	Multimode DC/DC Controller	20-SSOP	3.83	3.06	2.38
TPS5120MDBTREP	296-21272-1-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	8.86	7.98	7.08
TPS5120MDBTREP	296-21272-2-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	13140.00/2,000		
TPS5120QDBTREP	296-18639-1-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	8.52	6.82	5.76
TPS5120QDBTREP	296-18639-2-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	10650.00/2,000		
TPS5120QDBTRQ1G4	296-22052-1-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller ***NEW!***	30-TSSOP	6.50	5.20	4.39
TPS5120QDBTRQ1G4	296-22052-2-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller ***NEW!***	30-TSSOP	8126.00/2,000		
TPS5124DBT	296-15863-5-ND	Dual Channel, Sync. Step-Down PWM Controller	30-TSSOP	4.84	3.87	3.01
TPS5124EVM	296-18960-ND	Evaluation Module for TPS5124	—	50.00	—	—
TPS5140PAG	296-12364-ND	Quad-Out High Efficiency DC/DC Controller	64-TQFP	8.83	7.95	7.05
TPS5300DAP	296-12508-5-ND	CPU Power Supply Controller	32-TSSOP	6.90	5.52	4.66
TPS5410D	296-20787-5-ND	1A Wide Input Range, Step-Down Swift™ Converter	8-SOIC	3.60	2.88	2.24
TPS5410EVM-203	296-22913-ND	Eval. Module for TPS5410 ***NEW!***	—	50.00	—	—
TPS5420D	296-19671-5-ND	2A Wide Input Range, Step-Down Swift™ Converter	8-SOIC	3.83	3.06	2.38

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS5420EVM-175	296-21156-ND	Evaluation Module for TPS5420	—	10.20	—	—
TPS5420MDREP	296-22447-1-ND	2A Wide Input Range Step-Down Swift™ Converter ***NEW!***	8-SOIC	5.78	4.63	3.91
TPS5420MDREP	296-22447-2-ND	2A Wide Input Range Step-Down Swift™ Converter ***NEW!***	8-SOIC	8960.00/2,500		
TPS5420QDRQ1	296-23226-1-ND	2A Wide Input Range Step-Down Swift™ Converter ***NEW!***	8-SOIC	4.50	3.60	2.80
TPS5420QDRQ1	296-23226-2-ND	2A Wide Input Range Step-Down Swift™ Converter ***NEW!***	8-SOIC	6300.00/2,500		
TPS5430DDA	296-19447-5-ND	5.5V to 36V, 3A Step-Down Swift™ Converter	8-SOIC	4.16	3.33	2.59
TPS5430EVM-136	296-19432-ND	Evaluation Module for TPS5430-136	—	10.08	—	—
TPS5430EVM-173	296-19640-ND	Evaluation Module for TPS5430	—	10.20	—	—
TPS5430QDDARQ1	296-23177-1-ND	5.5V to 36V, 3A Step-Down Swift™ Converter ***NEW!***	8-SOIC	4.84	3.87	3.01
TPS5430QDDARQ1	296-23177-2-ND	5.5V to 36V, 3A Step-Down Swift™ Converter ***NEW!***	8-SOIC	6772.50/2,500		
TPS5431DDA	296-19662-5-ND	3A, Wide Input Range, Step-Down Swift™ Converter	8-SOIC	3.94	3.15	2.45
TPS5431EVM-173	296-19710-ND	Evaluation Module for TPS5431-173	—	10.20	—	—
TPS5450DDA	296-21715-5-ND	5A, Wide Input Range, Step-Down Swift™ Converter	8-SOIC	5.06	4.05	3.15
TPS5602IDBT	296-2262-5-ND	Dual DC/DC Controller	30-SSOP	6.80	5.44	4.59
TPS6734EVM	296-10980-ND	Evaluation Module for TPS6734	—	50.00	—	—
TPS6734ID	296-3225-5-ND	12V, 120mA Boost Converter	8-SOIC	2.50	2.00	1.56
TPS6734IDR	296-3225-1-ND	12V, 120mA Boost Converter	8-SOIC	2.50	2.00	1.56
TPS6734IDR	296-3225-2-ND	12V, 120mA Boost Converter	8-SOIC	3497.50/2,500		
TPS6734IP	296-3226-5-ND	12V, 120mA Boost Converter	8-Dip	2.50	2.00	1.56
TPS6735EVM	296-10981-ND	Evaluation Module for TPS6735	—	50.00	—	—
TPS6735ID	296-10982-5-ND	Neg. 5V, 200mA DC/DC Converter	8-SOIC	2.50	2.00	1.56
TPS6735IDR	296-10982-1-ND	Neg. 5V, 200mA DC/DC Converter	8-SOIC	2.50	2.00	1.56
TPS6735IDR	296-10982-2-ND	Neg. 5V, 200mA DC/DC Converter	8-SOIC	3497.50/2,500		
TPS6735IP	296-10983-5-ND	Neg. 5V, 200mA DC/DC Converter	8-Dip	2.50	2.00	1.56
TPS6755ID	296-10984-5-ND	Adj., 200mA DC/DC Converter	8-SOIC	3.06	2.45	1.91
TPS6755IP	296-10985-5-ND	Adj., 200mA DC/DC Converter	8-Dip	3.06	2.45	1.91
TPS40040DRBT	296-19638-1-ND	Sync. Buck DC/DC Controller	8-SON	2.48	1.98	1.49
TPS40040DRBT	296-19638-2-ND	Sync. Buck DC/DC Controller	8-SON	346.50/250		
TPS40041DRBR	296-19639-1-ND	Sync. Buck DC/DC Controller	8-SON	2.25	1.80	1.35
TPS40041DRBR	296-19639-2-ND	Sync. Buck DC/DC Controller	8-SON	3456.00/3,000		
TPS40041EVM-001	296-21151-ND	Evaluation Module for TPS40041	—	50.00	—	—
TPS40042DRCT	296-22978-1-ND	3V-5.5V Sync. Buck DC/DC Controller ***NEW!***	10-SON	2.48	1.98	1.49
TPS40042DRCT	296-22978-2-ND	3V-5.5V Sync. Buck DC/DC Controller ***NEW!***	10-SON	346.50/250		
TPS40052PWP	296-15751-5-ND	Wide Input Sync. Buck Controller	16-HTSSOP	3.71	2.97	2.31
TPS40077PWP	296-21554-ND	Midvoltage, Wide Input, Sync. Step-Down Controller	16-HTSSOP	3.60	2.88	2.24
TPS40090EVM-001	296-20593-ND	Evaluation Module for TPS40090	—	50.00	—	—
TPS40090EVM-002	296-18957-ND	Evaluation Module for TPS40090-002	—	50.00	—	—
TPS40090PW	296-15881-5-ND	Multiphase Sync. Buck Controller	24-TSSOP	4.28	3.42	2.66
TPS40100EVM-001	296-21152-ND	Evaluation Module for TPS40100	—	50.00	—	—
TPS40120PW	296-17389-ND	Programmable Feedback Divider	14-HTSSOP	1.47	1.23	.98
TPS40140EVM-002	296-22909-ND	Evaluation Module for TPS40140 ***NEW!***	—	50.00	—	—
TPS40140RHHR	296-20689-1-ND	Dual or 2-Phase, Stackable Controller	36-PQFP	6.10	4.88	4.12
TPS40140RHHR	296-20689-2-ND	Dual or 2-Phase, Stackable Controller	36-PQFP	11346.00/3,000		
TPS40180RGER	296-21973-1-ND	Single Phase Stackable Controller	24-QFN	4.39	3.51	2.73
TPS40180RGER	296-21973-2-ND	Single Phase Stackable Controller	24-QFN	7371.00/3,000		
TPS40200D	296-21153-5-ND	Wide Input Range Non-Sync. Voltage Mode Controller	8-SOIC	1.88	1.50	1.13
TPS40200EVM-001	296-19607-ND	Evaluation Module for TPS40200	—	50.00	—	—
TPS40200EVM-002	296-22911-ND	Evaluation Module for TPS40200 ***NEW!***	—	50.00	—	—
TPS40200MDREP	296-22446-1-ND	Wide Input Range Non-Sync. Voltage Mode Controller ***NEW!***	8-SOIC	3.53	2.83	2.20
TPS40200MDREP	296-22446-2-ND	Wide Input Range Non-Sync. Voltage Mode Controller ***NEW!***	8-SOIC	4945.00/2,500		
TPS40200QDRQ1	296-23024-1-ND	Wide Input Range Non-Sync. Voltage Mode Controller ***NEW!***	8-SOIC	2.25	1.80	1.35
TPS40200QDRQ1	296-23024-2-ND	Wide Input Range Non-Sync. Voltage Mode Controller ***NEW!***	8-SOIC	2880.00/2,500		
TPS51020DBT	296-15896-5-ND	Sync. Dual DC/DC Controller	30-TSSOP	5.40	4.32	3.36
TPS51020EVM-001	296-18958-ND	Evaluation Module for TPS51020-001	—	50.00	—	—
TPS51117PW	296-19425-5-ND	Singe Sync. Step-Down Converter	14-TSSOP	2.70	2.16	1.68
TPS51120EVM-001	296-19608-ND	Evaluation Module for TPS51120	—	101.00	—	—
TPS51120RHBT	296-18341-1-ND	Dual Current Mode, Sync. Step-Down Controller	32-QFN	5.50	4.40	3.72
TPS51120RHBT	296-18341-2-ND	Dual Current Mode, Sync. Step-Down Controller	32-QFN	893.75/250		
TPS51124RGET	296-19295-1-ND	Dual Sync. Step-Down Controller	24-QFN	5.29	4.23	3.29
TPS51124RGET	296-19295-2-ND	Dual Sync. Step-Down Controller	24-QFN	781.50/250		
TPS51511RHLT	296-21643-1-ND	Sync. Switcher Controller with 2A LDO for GPU Power	20-QFN	4.39	3.51	2.73
TPS51511RHLT	296-21643-2-ND	Sync. Switcher Controller with 2A LDO for GPU Power	20-QFN	648.50/250		
TPS51620RHAR	296-22979-1-ND	Dual Phase, D-Cap+TM Step-Down Controller ***NEW!***	40-QFN	4.50	3.60	2.80
TPS51620RHAR	296-22979-2-ND	Dual Phase, D-Cap+TM Step-Down Controller ***NEW!***	40-QFN	6300.00/2,500		
TPS53124RGER	296-23171-1-ND	Dual Sync. Step-Down Controller ***NEW!***	24-QFN	5.06	4.05	3.15
TPS53124RGER	296-23171-2-ND	Dual Sync. Step-Down Controller ***NEW!***	24-QFN	8505.00/3,000		
TPS54010EVM-067	296-17269-ND	Evaluation Module for TPS54010	—	50.00	—	—
TPS54110EVM-044	296-18961-ND	Evaluation Module for TPS54110-044	—	10.20	—	—
TPS54283PWPR	296-22873-1-ND	2A Dual Non-Sync. Converter	14-HTSSOP	5.40	4.32	3.36
TPS54283PWPR	296-22873-2-ND	2A Dual Non-Sync. Converter	14-HTSSOP	6120.00/2,000		
TPS54317RHFT	296-19742-1-ND	3V to 6V Input, 3A Sync. Step-Down Swift™ Converter	24-QFN	5.50	4.40	3.72
TPS54317RHFT	296-19742-2-ND	3V to 6V Input, 3A Sync. Step-Down Swift™ Converter	24-QFN	893.75/250		
TPS54350EVM-235	296-18962-ND	Evaluation Module for TPS54350-235	—	10.20	—	—
TPS54350PWP	296-15882-5-ND	Sync. Buck PWM Converter	16-HTSSOP	4.16	3.33	2.59
XILINXPWR-079	296-19048-ND	Evaluation Module for Xilinx FPGA	—	203.00	—	—
XILINXPWR-080	296-19049-ND	Evaluation Module for Xilinx FPGA	—	203.00	—	—
XILINXPWR-081	296-17394-ND	Evaluation Module for Xilinx FPGA	—	203.00	—	—
XILINXPWR-082	296-17304-ND	Evaluation Module for Xilinx FPGA	—	203.00	—	—

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
XILINXPWR-083	296-17395-ND	Evaluation Module for Xilinx FPGA	—	203.00	—	—
TPS54377RHFT	296-22632-1-ND	1.6MHz, 3V to 6V Input, 3A Sync. Step-Down Swift™ Converter ***NEW!***	24-QFN	5.50	4.40	3.72
TPS54377RHFT	296-22632-2-ND	1.6MHz, 3V to 6V Input, 3A Sync. Step-Down Swift™ Converter ***NEW!***	24-QFN	893.75/250		
TPS54386PWPR	296-23109-1-ND	3A Dual Non-Sync. Converter ***NEW!***	14-HTSSOP	5.30	4.24	3.58
TPS54386PWPR	296-23109-2-ND	3A Dual Non-Sync. Converter ***NEW!***	14-HTSSOP	6626.00/2,000		
TPS54550EVM-158	296-19743-ND	Evaluation Module for TPS54550	—	10.20	—	—
TPS54550PWP	296-19672-5-ND	4.5V to 20V Input, 6A Output Sync. PWM Switcher	16-HTSSOP	5.30	4.24	3.58
TPS54610PWP	296-12123-5-ND	Low Input Voltage, 6A Continuous Buck Converter 3.3V Out	28-HTSSOP	6.40	5.12	4.32
TPS54611PWP	296-12124-5-ND	Low Input Voltage 6A Continuous Buck Converter 0.9V Out	28-HTSSOP	6.40	5.12	4.32
TPS54612PWP	296-12125-5-ND	Low Input Voltage 6A Continuous Buck Converter 1.2V Out	28-HTSSOP	6.40	5.12	4.32
TPS54613PWP	296-12126-5-ND	Low Input Voltage 6A Continuous Buck Converter 1.5V Out	28-HTSSOP	6.40	5.12	4.32
TPS54614EVM-183	296-12240-ND	Evaluation Module for TPS54614	—	10.20	—	—
TPS54614PWP	296-12127-5-ND	Low Input Voltage 6A Continuous Buck Converter 1.8V Out	28-HTSSOP	6.40	5.12	4.32
TPS54615PWP	296-12128-5-ND	Low Input Voltage 6A Continuous Buck Converter 2.5V Out	28-HTSSOP	6.40	5.12	4.32
TPS54672EVM-222	296-20597-ND	Evaluation Module for TPS54672	—	10.20	—	—
TPS54672PWP	296-12130-5-ND	Track-Termination Sync. PWM Switcher with Integrated FETs	28-HTSSOP	6.40	5.12	4.32
TPS54900PW	296-13408-5-ND	Programmable 4-Channel Step-Down DC/DC Converter	16-TSSOP	11.50	10.35	9.18
TPS60100EVM-131	296-10945-ND	Evaluation Module for TPS60100	—	50.00	—	—
TPS60100PWP	296-2263-5-ND	3.3V, 0.2A, DC/DC Converter	20-HTSSOP	2.81	2.25	1.75
TPS60101PWP	296-2264-5-ND	3.3V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60110EVM-132	296-10946-ND	Evaluation Module for TPS60110	—	50.00	—	—
TPS60110PWP	296-2265-5-ND	5V, 0.3A, DC/DC Converter	20-HTSSOP	2.93	2.34	1.82
TPS60111PWP	296-2266-5-ND	5V, 0.15A, DC/DC Converter	20-HTSSOP	2.59	2.07	1.61
TPS60120EVM-142	296-10947-ND	Evaluation Module for TPS60120	—	50.00	—	—
TPS60120EVM-174	296-13577-ND	Evaluation Module for TPS60120	—	50.00	—	—
TPS60120PWP	296-2267-5-ND	3.3V, 0.2A, DC/DC Converter	20-HTSSOP	2.81	2.25	1.75
TPS60121PWP	296-2268-5-ND	3.3V, 0.2A, DC/DC Converter	20-HTSSOP	2.81	2.25	1.75
TPS60122PWP	296-2269-5-ND	3.3V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60123PWP	296-2270-5-ND	3.3V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60124PWP	296-10948-5-ND	3.3V, 200mA, DC/DC Converter	20-HTSSOP	2.81	2.25	1.75
TPS60125PWP	296-10949-5-ND	3.3V, 200mA, DC/DC Converter	20-HTSSOP	2.81	2.25	1.75
TPS60130EVM-143	296-10950-ND	Evaluation Module for TPS60130	—	50.00	—	—
TPS60130PWP	296-2271-5-ND	5V, 0.3A, DC/DC Converter	20-HTSSOP	2.93	2.34	1.82
TPS60131PWP	296-2272-5-ND	5V, 0.3A, DC/DC Converter	20-HTSSOP	2.93	2.34	1.82
TPS60132PWP	296-2273-5-ND	5V, 0.15A, DC/DC Converter	20-HTSSOP	2.59	2.07	1.61
TPS60133PWP	296-2274-5-ND	5V, 0.15A, DC/DC Converter	20-HTSSOP	2.59	2.07	1.61
TPS60140EVM-144	296-10951-ND	Evaluation Module for TPS60140	—	50.00	—	—
TPS60140PWP	296-2275-5-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60140PWPR	296-2275-1-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60140PWPR	296-2275-2-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2678.00/2,000		
TPS60141PWP	296-2276-5-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60141PWPR	296-2276-1-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60141PWPR	296-2276-2-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2678.00/2,000		
TPS60200DGS	296-10954-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.36	1.89	1.47
TPS60200EVM-145	296-10955-ND	Evaluation Module for TPS60200	—	50.00	—	—
TPS60201DGS	296-10956-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.36	1.89	1.47
TPS60202DGS	296-10957-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.38	1.90	1.43
TPS60203DGS	296-10958-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.38	1.90	1.43
TPS60204DGSR	296-12365-1-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-MSOP	2.36	1.89	1.47
TPS60204DGSR	296-12365-2-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-MSOP	3307.50/2,500		
TPS60205DGSR	296-12366-1-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-MSOP	2.36	1.89	1.47
TPS60205DGSR	296-12366-2-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-MSOP	3307.50/2,500		
TPS60210DGS	296-10959-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.36	1.89	1.47
TPS60210EVM-167	296-10960-ND	Evaluation Module for TPS60210	—	50.00	—	—
TPS60211DGS	296-10961-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.36	1.89	1.47
TPS60212DGS	296-10962-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.38	1.90	1.43
TPS60213DGS	296-10963-5-ND	3.3V, 50mA Low Ripple Charge Pump	10-TSSOP	2.38	1.90	1.43
TPS60230EVM-047	296-18968-ND	Evaluation Module for TPS60230-047	—	50.00	—	—
TPS60230RGTT	296-17136-1-ND	White LED Charge Pump Current Source with PWM Brightness Control	16-QFN	3.71	2.97	2.31
TPS60230RGTT	296-17136-2-ND	White LED Charge Pump Current Source with PWM Brightness Control	16-QFN	548.75/250		
TPS60231EVM-047	296-17608-ND	Evaluation Module for TPS60231	—	50.00	—	—
TPS60231RGTR	296-17490-1-ND	White LED Charge Pump Current Source with PWM Brightness Control	16-QFN	3.15	2.52	1.96
TPS60231RGTR	296-17490-2-ND	White LED Charge Pump Current Source with PWM Brightness Control	16-QFN	5292.00/3,000		
TPS60250RTER	296-21893-1-ND	High Efficiency Charge Pump	16-QFN	3.15	2.52	1.96
TPS60250RTER	296-21893-2-ND	High Efficiency Charge Pump	16-QFN	5292.00/3,000		
TPS60251RTWT	296-21894-1-ND	High Efficiency Charge Pump	24-QFN	3.49	2.79	2.17
TPS60251RTWT	296-21894-2-ND	High Efficiency Charge Pump	24-QFN	515.50/250		
TPS60255RTER	296-23329-1-ND	High Efficiency Charge Pump ***NEW!***	16-QFN	3.15	2.52	1.96
TPS60255RTER	296-23329-2-ND	High Efficiency Charge Pump ***NEW!***	16-QFN	5292.00/3,000		
TPS60300DGSR	296-13410-1-ND	Single Cell to 3.3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2.38	1.90	1.43
TPS60300DGSR	296-13410-2-ND	Single Cell to 3.3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	3040.00/2,500		
TPS60301DGSR	296-13411-1-ND	Single Cell to 3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2.38	1.90	1.43

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS60301DGSR	296-13411-2-ND	Single Cell to 3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	3040.00/2,500		
TPS60302DGSR	296-13412-1-ND	Single Cell to 3.3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2.38	1.90	1.43
TPS60302DGSR	296-13412-2-ND	Single Cell to 3.3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	3040.00/2,500		
TPS60302EVM-170	296-10964-ND	Evaluation Module for TPS60302	—	50.00	—	—
TPS60303DGSR	296-13413-1-ND	Single Cell to 3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2.38	1.90	1.43
TPS60303DGSR	296-13413-2-ND	Single Cell to 3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	3040.00/2,500		
TPS60310DGSR	296-13414-1-ND	Single Cell to 3.3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2.36	1.89	1.47
TPS60310DGSR	296-13414-2-ND	Single Cell to 3.3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	3307.50/2,500		
TPS60311DGSR	296-13415-1-ND	Single Cell to 3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2.36	1.89	1.47
TPS60311DGSR	296-13415-2-ND	Single Cell to 3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	3307.50/2,500		
TPS60312DGSR	296-13416-1-ND	Single Cell to 3.3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2.36	1.89	1.47
TPS60312DGSR	296-13416-2-ND	Single Cell to 3.3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	3307.50/2,500		
TPS60313DGSR	296-13417-1-ND	Single Cell to 3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2.36	1.89	1.47
TPS60313DGSR	296-13417-2-ND	Single Cell to 3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	3307.50/2,500		
TPS60400DBVT	296-12013-1-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	1.02	.85	.68
TPS60400DBVT	296-12013-2-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	127.50/250		
TPS60400EVM-178	296-13580-ND	Evaluation Module for TPS60400	—	5.10	—	—
TPS60401DBVT	296-12014-1-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	1.02	.85	.68
TPS60401DBVT	296-12014-2-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	127.50/250		
TPS60402DBVT	296-12015-1-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	1.02	.85	.68
TPS60402DBVT	296-12015-2-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	127.50/250		
TPS60403DBVT	296-13418-1-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	1.02	.85	.68
TPS60403DBVT	296-13418-2-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	127.50/250		
TPS60403QDBVRQ1	296-18036-1-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	1.11	.93	.74
TPS60403QDBVRQ1	296-18036-2-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	1443.00/3,000		
TPS60500DGSR	296-17015-1-ND	250mA Step-Down Charge Pump	10-MSOP	2.00	1.60	1.20
TPS60500DGSR	296-17015-2-ND	250mA Step-Down Charge Pump	10-MSOP	2560.00/2,500		
TPS60500EVM-193	296-13581-ND	Evaluation Module for TPS60500	—	50.00	—	—
TPS60501DGS	296-12514-5-ND	3.3V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	2.00	1.60	1.20
TPS60502DGS	296-12515-5-ND	1.8V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	2.00	1.60	1.20
TPS60503DGS	296-12516-5-ND	1.5V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	2.00	1.60	1.20
TPS61000DGS	296-3217-5-ND	Adj., 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61000EVM-156	296-10965-ND	Evaluation Module for TPS61000	—	50.00	—	—
TPS61001DGS	296-3218-5-ND	1.5V, 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61002DGS	296-3219-5-ND	1.8V, 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61002EVM-156	296-10966-ND	Evaluation Module for TPS61002	—	50.00	—	—
TPS61003DGS	296-3220-5-ND	2.5V, 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61003EVM-156	296-10967-ND	Evaluation Module for TPS61003	—	50.00	—	—
TPS61004DGS	296-3221-5-ND	2.8V, 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61005DGS	296-3222-5-ND	3.0V, 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61006DGS	296-3223-5-ND	3.3V, 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61006EVM-156	296-10968-ND	Evaluation Module for TPS61006	—	50.00	—	—
TPS61007DGS	296-3224-5-ND	Adj., 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61010DGS	296-10969-5-ND	Adj., Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61010DRCR	296-21158-1-ND	High Efficiency, 1-Cell and 2-Cell Boost Converter	10-QFN	2.48	1.98	1.54
TPS61010DRCR	296-21158-2-ND	High Efficiency, 1-Cell and 2-Cell Boost Converter	10-QFN	4158.00/3,000		
TPS61010EVM-157	296-13582-ND	Evaluation Module for TPS61010	—	50.00	—	—
TPS61011DGS	296-10970-5-ND	1.5V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61012DGS	296-10971-5-ND	1.8V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61013DGS	296-10972-5-ND	2.5V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61013EVM-157	296-13583-ND	Evaluation Module for TPS61013	—	50.00	—	—
TPS61014DGS	296-10973-5-ND	2.8V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61015EVM-157	296-13584-ND	Evaluation Module for TPS61015	—	50.00	—	—
TPS61015DGS	296-10974-5-ND	3.0V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61016DGS	296-10975-5-ND	3.3V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61016EVM-157	296-12001-ND	Evaluation Module for TPS61016	—	50.00	—	—
TPS61020DRCR	296-15752-1-ND	Synchronous Boost Converter	10-SON	3.15	2.52	1.96
TPS61020DRCR	296-15752-2-ND	Synchronous Boost Converter	10-SON	5292.00/3,000		
TPS61020EVM-025	296-18969-ND	Evaluation Module for TPS61020-025	—	50.00	—	—
TPS61024DRCR	296-15753-1-ND	Synchronous Boost Converter	10-SON	3.15	2.52	1.96
TPS61024DRCR	296-15753-2-ND	Synchronous Boost Converter	10-SON	5292.00/3,000		
TPS61025DRCR	296-15844-1-ND	Synchronous Boost Converter	10-SON	3.15	2.52	1.96
TPS61025DRCR	296-15844-2-ND	Synchronous Boost Converter	10-SON	5292.00/3,000		
TPS61026DRCT	296-19558-1-ND	Synchronous Boost Converter	10-QFN	3.71	2.97	2.31
TPS61026DRCT	296-19558-2-ND	Synchronous Boost Converter	10-QFN	548.75/250		
TPS61027DRCR	296-15754-1-ND	Synchronous Boost Converter	10-SON	3.15	2.52	1.96
TPS61027DRCR	296-15754-2-ND	Synchronous Boost Converter	10-SON	5292.00/3,000		
TPS61028DRCR	296-18078-1-ND	Sync. Boost Converter with 1.5A Switch	10-SON	3.15	2.52	1.96
TPS61028DRCR	296-18078-2-ND	Sync. Boost Converter with 1.5A Switch	10-SON	5292.00/3,000		
TPS61029DRCT	296-19559-1-ND	Sync. Boost Converter	10-QFN	3.71	2.97	2.31
TPS61029DRCT	296-19559-2-ND	Sync. Boost Converter	10-QFN	548.75/250		
TPS61030EVM-208	296-20606-ND	Evaluation Module for TPS61030	—	50.00	—	—
TPS61030PWPR	296-14416-1-ND	Single/Dual Cell Boost Converter	16-HTSSOP	4.73	3.78	2.94
TPS61030PWPR	296-14416-2-ND	Single/Dual Cell Boost Converter	16-HTSSOP	5356.00/2,000		
TPS61030RSAR	296-16660-1-ND	Adj., Synchronous Boost Converter	16-QFN	4.73	3.78	2.94
TPS61030RSAR	296-16660-2-ND	Adj., Synchronous Boost Converter	16-QFN	7938.00/3,000		
TPS61031EVM-208	296-20607-ND	Evaluation Module for TPS61031	—	50.00	—	—
TPS61031PWPR	296-14417-1-ND	Single/Dual Cell Boost Converter	16-HTSSOP	4.73	3.78	2.94
TPS61031PWPR	296-14417-2-ND	Single/Dual Cell Boost Converter	16-HTSSOP	5356.00/2,000		
TPS61031RSAR	296-16661-1-ND	3.3V, Synchronous Boost Converter	16-QFN	4.73	3.78	2.94
TPS61031RSAR	296-16661-2-ND	3.3V, Synchronous Boost Converter	16-QFN	7938.00/3,000		
TPS61032EVM-208	296-20608-ND	Evaluation Module for TPS61032	—	50.00	—	—
TPS61032PWPR	296-14418-1-ND	Single or Dual Cell Boost Converter	16-TSSOP	4.73	3.78	2.94
TPS61032PWPR	296-14418-2-ND	Single or Dual Cell Boost Converter	16-TSSOP	5356.00/2,000		
TPS61032RSAR	296-16662-1-ND	5V, Synchronous Boost Converter	16-QFN	4.73	3.78	2.94
TPS61032RSAR	296-16662-2-ND	5V, Synchronous Boost Converter	16-QFN	7938.00/3,000		
TPS61040DBVR	296-12685-1-ND	LP DC/DC Boost Converter	SOT-23-5	2.25	1.80	1.35
TPS61040DBVR	296-12685-2-ND	LP DC/DC Boost Converter	SOT-23-5	3456.00/3,000		
TPS61040DRVR	296-22980-1-ND	LP DC/DC Boost Converter ***NEW!***	6-SON	2.25	1.80	1.35
TPS61040DRVR	296-22980-2-ND	LP DC/DC Boost Converter ***NEW!***	6-SON	3456.00/3,000		
TPS61040EVM-001	296-13585-ND	Evaluation Module for TPS61040	—	50.00	—	—
TPS61040EVM-002	296-20609-ND	Evaluation Module for TPS61040	—	50.00	—	—
TPS61041DBVR	296-12686-1-ND	LP DC/DC Boost Converter	SOT-23-5	1.75	1.40	1.05
TPS61041DBVR	296-12686-2-ND	LP DC/DC Boost Converter	SOT-23-5	2688.00/3,000		
TPS61041DRVR	296-22981-1-ND	LP DC/DC Boost Converter ***NEW!***	6-SON	1.75	1.40	1.05
TPS61041DRVR	296-22981-2-ND	LP DC/DC Boost Converter ***NEW!***	6-SON	2688.00/3,000		
TPS61041QDBVRQ1	296-21895-1-ND	LP DC/DC Boost Converter	SOT-23-5	2.00	1.60	1.20
TPS61041QDBVRQ1	296-21895-2-ND	LP DC/DC Boost Converter	SOT-23-5	3072.00/3,000		
TPS61042DRBR	296-14449-1-ND	Constant Current LED Driver	8-QFN	2.38	1.90	1.43
TPS61042DRBR	296-14449-2-ND	Constant Current LED Driver	8-QFN	3648.00/3,000		
TPS61042EVM-226	296-20610-ND	Evaluation Module for TPS61042	—	50.00	—	—
TPS61043DRBR	296-16675-1-ND	Constant Current LED Driver	8-SON	2.00	1.60	1.20
TPS61043DRBR	296-16675-2-ND	Constant Current LED Driver	8-SON	3072.00/3,000		
TPS61045DRBR	296-14419-1-ND	Adjustable LCD Boost Converter	8-SON	2.48	1.98	1.49
TPS61045DRBR	296-14419-2-ND	Adjustable LCD Boost Converter	8-SON	3801.00/3,000		
TPS61045EVM-231	296-20611-ND	Evaluation Module for TPS61045	—	50.00	—	—
TPS61050DRCT	296-21681-1-ND	1.2A High Power White LED Driver, 2MHz Sync. Boost Converter	10-SON	3.49	2.79	2.17
TPS61050DRCT	296-21681-2-ND	1.2A High Power White LED Driver, 2MHz Sync. Boost Converter	10-SON	515.50/250		
TPS61050YZGT	296-21682-1-ND	1.2A High Power White LED Driver, 2MHz Sync. Boost Converter	12-DSBGA	3.60	2.88	2.24
TPS61050YZGT	296-21682-2-ND	1.2A High Power White LED Driver, 2MHz Sync. Boost Converter	12-DSBGA	532.00/250		
TPS61052YZGR	296-21896-1-ND	1.2A High Power White LED Driver	12-DSBGA	3.26	2.61	2.03
TPS61052YZGR	296-21896-2-ND	1.2A High Power White LED Driver	12-DSBGA	5481.00/3,000		
TPS61052YZGT	296-21897-1-ND	1.2A High Power White LED Driver	12-DSBGA	3.60	2.88	2.24
TPS61052YZGT	296-21897-2-ND	1.2A High Power White LED Driver	12-DSBGA	532.00/250		
TPS61058DRCR	296-18728-1-ND	Synchronous Boost Converter	10-QFN	2.13	1.70	1.28
TPS61058DRCR	296-18728-2-ND	Synchronous Boost Converter	10-QFN	3264.00/3,000		
TPS61059DRCT	296-19426-1-ND	Synchronous Boost Converter	10-QFN	2.36	1.89	1.47
TPS61059DRCT	296-19426-2-ND	Synchronous Boost Converter	10-QFN	349.25/250		
TPS61059EVM-141	296-19609-ND	Evaluation Module for TPS61059	—	50.00	—	—
TPS61060DRBR	296-17500-1-ND	Constant Current LED Driver	8-SON	2.13	1.70	1.28
TPS61060DRBR	296-17500-2-ND	Constant Current LED Driver	8-SON	3264.00/3,000		
TPS61060YZFR	296-19296-1-ND	Constant Current LED Driver	8-DSBGA	2.38	1.90	1.43
TPS61060YZFR	296-19296-2-ND	Constant Current LED Driver	8-DSBGA	3648.00/3,000		
TPS61060YZFT	296-17745-1-ND	Constant Current LED Driver	8-DSBGA	2.36	1.89	1.47
TPS61060YZFT	296-17745-2-ND	Constant Current LED Driver	8-DSBGA	349.25/250		
TPS61061DRBR	296-17499-1-ND	Constant Current LED Driver	8-SON	2.25	1.80	1.35
TPS61061DRBR	296-17499-2-ND	Constant Current LED Driver	8-SON	3456.00/3,000		
TPS61061EVM-091	296-17517-ND	Evaluation Module for TPS61061-091	—	50.00	—	—
TPS61061YZFT	296-17746-1-ND	Constant Current LED Driver	8-DSBGA	2.48	1.98	1.54
TPS61061YZFT	296-17746-2-ND	Constant Current LED Driver	8-DSBGA	365.75/250		
TPS61062DRBR	296-17502-1-ND	Constant Current LED Driver	8-SON	2.25	1.80	1.40
TPS61062DRBR	296-17502-2-ND	Constant Current LED Driver	8-SON	3780.00/3,000		
TPS61062YZFT	296-17747-1-ND	Constant Current LED Driver	8-DSBGA	2.70	2.16	1.68
TPS61062YZFT	296-17747-2-ND	Constant Current LED Driver	8-DSBGA	399.00/250		
TPS61070DDCR	296-17151-1-ND	Synchronous Boost Converter with 600mA Switch	TSOT-6	2.00	1.60	1.20
TPS61070DDCR	296-17151-2-ND	Synchronous Boost Converter with 600mA Switch	TSOT-6	3072.00/3,000		
TPS61070EVM-062	296-18971-ND	Evaluation Module for TPS61070-062	—	50.00	—	—
TPS61071DDCR	296-17227-1-ND	Synchronous Boost Converter with 600mA Switch	TSOT-6	2.00	1.60	1.20
TPS61071DDCR	296-17227-2-ND	Synchronous Boost Converter with 600mA Switch	TSOT-6	3072.00/3,000		
TPS61072DDCR	296-21523-1-ND	Synchronous Boost Converter	TSOT-23-6	2.00	1.60	1.20
TPS61072DDCR	296-21523-2-ND	Synchronous Boost Converter	TSOT-23-6	3072.00/3,000		
TPS61073DDCR	296-21898-1-ND	Synchronous Boost Converter	TSOT-23-6	2.00	1.60	1.20
TPS61073DDCR	296-21898-2-ND	Synchronous Boost Converter	TSOT-23-6	3072.00/3,000		
TPS61080DRCT	296-21555-1-ND	0.5A, High Voltage, DC/DC Boost Converter	10-QFN	3.38	2.70	2.10
TPS61080DRCT	296-21555-2-ND	0.5A, High Voltage, DC/DC Boost Converter	10-QFN	498.75/250		
TPS61081DRCT	296-21556-1-ND	1.3A, High Voltage, DC/DC Boost Converter	10-SON	3.60	2.88	2.24
TPS61081DRCT	296-21556-2-ND	1.3A, High Voltage, DC/DC Boost Converter	10-SON	532.00/250		
TPS61090EVM-029	296-18972-ND	Evaluation Module for TPS61090-029	—	50.00	—	—
TPS61090RSAR	296-15259-1-ND	Sync. Boost Converter with 2A Switch	16-QFN	3.83	3.06	2.38
TPS61090RSAR	296-15259-2-ND	Sync. Boost Converter with 2A Switch	16-QFN	6426.00/3,000		
TPS61091RSAR	296-15239-1-ND	Sync. Boost Converter with 2A Switch	16-QFN	3.83	3.06	2.38
TPS61091RSAR	296-15239-2-ND	Sync. Boost Converter with 2A Switch	16-QFN	6426.00/3,000		
TPS61092RSAR	296-15240-1-ND	Sync. Boost Converter with 2A Switch	16-QFN	3.83	3.06	2.38
TPS61092RSAR	296-15240-2-ND	Sync. Boost Converter with 2A Switch	16-QFN	6426.00/3,000		
TPS61100EVM-216	296-20612-ND	Evaluation Module for TPS61100	—	50.00	—	—
TPS61100PW	296-13515-5-ND	Adj., Dual Output, Single Cell Boost Converter	20-TSSOP	3.38	2.70	2.10
TPS61103EVM-216	296-20613-ND	Evaluation Module for TPS61103	—	50.00	—	—
TPS61103PW	296-13516-5-ND	3.3V, Dual Output, Single Cell Boost Converter	20-TSSOP	3.38	2.70	2.10
TPS61106EVM-216	296-20614-ND	Evaluation Module for TPS61106	—	50.00	—	—
TPS61106PW	296-13517-5-ND	3.3V, Dual Output, Single Cell Boost Converter	20-TSSOP	3.38	2.70	2.10

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS61107EVM-216	296-20615-ND	Evaluation Module for TPS61107	—	50.00	—	—
TPS61107PWR	296-13750-1-ND	Dual Output, Single Cell Boost Converter	20-TSSOP	3.38	2.70	2.10
TPS61107PWR	296-13750-2-ND	Dual Output, Single Cell Boost Converter	20-TSSOP	3826.00/2,000		
TPS61120EVM-205	296-20616-ND	Evaluation Module for TPS61120	—	50.00	—	—
TPS61120PW	296-13518-5-ND	Adj., Dual Output, Single Cell Li or Dual Cell Boost Converter	16-TSSOP	3.38	2.70	2.10
TPS61121EVM-205	296-20617-ND	Evaluation Module for TPS61121	—	50.00	—	—
TPS61121PW	296-13519-5-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-TSSOP	3.38	2.70	2.10
TPS61121RSAR	296-18973-1-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-QFN	3.38	2.70	2.10
TPS61121RSAR	296-18973-2-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-QFN	5670.00/3,000		
TPS61122EVM-205	296-20618-ND	Evaluation Module for TPS61122	—	50.00	—	—
TPS61122PW	296-13520-5-ND	3.6V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-TSSOP	3.38	2.70	2.10
TPS61140DRCR	296-21159-1-ND	Dual Output Boost Regulator	10-QFN	4.16	3.33	2.59
TPS61140DRCR	296-21159-2-ND	Dual Output Boost Regulator	10-QFN	6993.00/3,000		
TPS61140EVM-157	296-19744-ND	Evaluation Module for TPS61140	—	50.00	—	—
TPS61141DRCR	296-21160-1-ND	Dual Output Boost Regulator	10-QFN	4.16	3.33	2.59
TPS61141DRCR	296-21160-2-ND	Dual Output Boost Regulator	10-QFN	6993.00/3,000		
TPS61150ADRCR	296-21273-1-ND	Dual Out Boost WLED Driver	10-QFN	3.71	2.97	2.31
TPS61150ADRCR	296-21273-2-ND	Dual Out Boost WLED Driver	10-QFN	6237.00/3,000		
TPS61150DRCR	296-21161-1-ND	Dual Out Boost WLED Driver	10-QFN	3.71	2.97	2.31
TPS61150DRCR	296-21161-2-ND	Dual Out Boost WLED Driver	10-QFN	6237.00/3,000		
TPS61150EVM-150	296-19745-ND	Evaluation Module for TPS61150	—	50.00	—	—
TPS61151DRCR	296-21162-1-ND	Dual Out Boost WLED Driver	10-QFN	3.71	2.97	2.31
TPS61151DRCR	296-21162-2-ND	Dual Out Boost WLED Driver	10-QFN	6237.00/3,000		
TPS61170DRVR	296-22945-1-ND	1.2A High Volt. Boost Converter ***NEW!***	6-SON	3.15	2.52	1.96
TPS61170DRVR	296-22945-2-ND	1.2A High Volt. Boost Converter ***NEW!***	6-SON	5292.00/3,000		
TPS61200DRCT	296-21663-1-ND	Low Input Voltage Sync. Boost Converter	10-SON	4.16	3.33	2.59
TPS61200DRCT	296-21663-2-ND	Low Input Voltage Sync. Boost Converter	10-SON	615.25/250		
TPS61200EVM-179	296-23113-ND	Evaluation Module for TPS61200 ***NEW!***	—	50.00	—	—
TPS61201DRCT	296-21684-1-ND	Low Input Voltage Sync. Boost Converter	10-SON	4.16	3.33	2.59
TPS61201DRCT	296-21684-2-ND	Low Input Voltage Sync. Boost Converter	10-SON	615.25/250		
TPS61202DRCT	296-21685-1-ND	Low Input Voltage Sync. Boost Converter	10-SON	4.16	3.33	2.59
TPS61202DRCT	296-21685-2-ND	Low Input Voltage Sync. Boost Converter	10-SON	615.25/250		
TPS61202DSCT	296-23120-1-ND	Low Input Voltage Sync. Boost Converter ***NEW!***	10-QFN	4.39	3.51	2.73
TPS61202DSCT	296-23120-2-ND	Low Input Voltage Sync. Boost Converter ***NEW!***	10-QFN	648.50/250		
TPS62000EVM-168	296-13586-ND	Evaluation Module for TPS62000	—	50.00	—	—
TPS62000YEGT	296-15776-1-ND	High Efficiency Step-Down, Low Power DC/DC Converter	12-DSBGA	3.60	2.88	2.24
TPS62005QDGSRQ1	296-19427-1-ND	1.8V High Eff. Step Down, Low Power, DC/DC Converter	10-MSOP	3.49	2.79	2.17
TPS62005QDGSRQ1	296-19427-2-ND	1.8V High Eff. Step Down, Low Power, DC/DC Converter	10-MSOP	4882.50/2,500		
TPS62006DGSR	296-11617-1-ND	High Efficiency Step-Down, DC/DC Converter	10-MSOP	2.93	2.34	1.82
TPS62006DGSR	296-11617-2-ND	High Efficiency Step-Down, DC/DC Converter	10-MSOP	4095.00/2,500		
TPS62007DGS	296-12517-5-ND	3.3V High Efficiency Step-Down, DC/DC Converter	10-MSOP	2.93	2.34	1.82
TPS62007DGSR	296-11618-1-ND	3.3V High Efficiency Step-Down, DC/DC Converter	10-MSOP	2.93	2.34	1.82
TPS62007DGSR	296-11618-2-ND	3.3V High Efficiency Step-Down, DC/DC Converter	10-MSOP	4095.00/2,500		
TPS62007EVM-168	296-20619-ND	Evaluation Module for TPS62007	—	50.00	—	—
TPS62008DGS	296-15676-5-ND	600mA High Efficiency, Step-Down, DC/DC Converter	10-MSOP	2.93	2.34	1.82
TPS62020DGQR	296-15250-1-ND	600mA High Efficiency Step-Down Converter	10-MSOP	3.60	2.88	2.24
TPS62020DGQR	296-15250-2-ND	600mA High Efficiency Step-Down Converter	10-MSOP	5040.00/2,500		
TPS62020DRCR	296-15897-1-ND	600mA High Efficiency Step-Down Converter	10-SON	3.60	2.88	2.24
TPS62020DRCR	296-15897-2-ND	600mA High Efficiency Step-Down Converter	10-SON	6048.00/3,000		
TPS62020EVM-019	296-18976-ND	Evaluation Module for TPS62020-019	—	50.00	—	—
TPS62021DGQR	296-17179-1-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-MSOP	3.60	2.88	2.24
TPS62021DGQR	296-17179-2-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-MSOP	5040.00/2,500		
TPS62021DRCR	296-17180-1-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-SON	3.60	2.88	2.24
TPS62021DRCR	296-17180-2-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-SON	6048.00/3,000		
TPS62026DGQR	296-17693-1-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-MSOP	3.60	2.88	2.24
TPS62026DGQR	296-17693-2-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-MSOP	5040.00/2,500		
TPS62026DRCR	296-17694-1-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-SON	3.60	2.88	2.24
TPS62026DRCR	296-17694-2-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-SON	6048.00/3,000		
TPS62040DGQR	296-15219-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	3.71	2.97	2.31
TPS62040DGQR	296-15219-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	5197.50/2,500		
TPS62040DRCR	296-15898-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	3.71	2.97	2.31
TPS62040DRCR	296-15898-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	6237.00/3,000		
TPS62040EVM-229	296-18977-ND	Evaluation Module for TPS62040-229	—	50.00	—	—
TPS62042DGQR	296-15220-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	3.71	2.97	2.31
TPS62042DGQR	296-15220-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	5197.50/2,500		
TPS62042DRCR	296-15899-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	3.71	2.97	2.31
TPS62042DRCR	296-15899-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	6237.00/3,000		
TPS62043DGQR	296-15221-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	3.71	2.97	2.31
TPS62043DGQR	296-15221-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	5197.50/2,500		
TPS62043DRCR	296-15900-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	3.71	2.97	2.31
TPS62043DRCR	296-15900-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	6237.00/3,000		
TPS62044DGQR	296-15222-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	3.71	2.97	2.31
TPS62044DGQR	296-15222-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	5197.50/2,500		
TPS62044DRCR	296-15901-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	3.71	2.97	2.31
TPS62044DRCR	296-15901-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	6237.00/3,000		
TPS62046DGQR	296-15223-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	3.71	2.97	2.31
TPS62046DGQR	296-15223-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-MSOP	5197.50/2,500		
TPS62046DRCR	296-15902-1-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	3.71	2.97	2.31
TPS62046DRCR	296-15902-2-ND	1.2A, 1.25MHz High Efficiency Step-Down Converter	10-SON	6237.00/3,000		
TPS62046EVM-229	296-18978-ND	Evaluation Module for TPS62046-229	—	50.00	—	—
TPS62050DGSR	296-14392-1-ND	800mA Sync. Step-Down Converter	10-MSOP	4.16	3.33	2.59
TPS62050DGSR	296-14392-2-ND	800mA Sync. Step-Down Converter	10-MSOP	5827.50/2,500		
TPS62050EVM-234	296-20620-ND	Evaluation Module for TPS62050	—	50.00	—	—
TPS62051DGS	296-14209-5-ND	800mA Sync. Step-Down Converter	10-MSOP	4.16	3.33	2.59
TPS62052DGS	296-14210-5-ND	800mA Sync. Step-Down Converter	10-MSOP	4.16	3.33	2.59
TPS62052EVM-234	296-20621-ND	Evaluation Module for TPS62052	—	50.00	—	—
TPS62054DGS	296-14211-5-ND	800mA Sync. Step-Down Converter	10-MSOP	4.16	3.33	2.59
TPS62056DGS	296-14212-5-ND	800mA Sync. Step-Down Converter	10-MSOP	4.16	3.33	2.59
TPS6211XEVM-101	296-21163-ND	Evaluation Module for TPS6211X	—	50.00	—	—
TPS62110MRSAREP	296-22462-1-ND	17V, 1.5A, Sync. Step-Down Converter ***NEW!***	16-QFN	8.50	6.80	5.74
TPS62110MRSAREP	296-22462-2-ND	17V, 1.5A, Sync. Step-Down Converter ***NEW!***	16-QFN	15810.00/3,000		
TPS62110QRSAREP	296-22463-1-ND	17V, 1.5A, Sync. Step-Down Converter ***NEW!***	16-QFN	2.25	1.80	1.40
TPS62110QRSAREP	296-22463-2-ND	17V, 1.5A, Sync. Step-Down Converter ***NEW!***	16-QFN	3780.00/3,000		
TPS62110RSAT	296-18580-1-ND	17V, 1.5A Sync. Step-Down Converter	16-QFN	3.90	3.12	2.64
TPS62110RSAT	296-18580-2-ND	17V, 1.5A Sync. Step-Down Converter	16-QFN	648.50/250		
TPS62111MRSAREP	296-22464-1-ND	17V, 1.5A, Sync. Step-Down Converter ***NEW!***	16-QFN	8.33	7.50	6.65
TPS62111MRSAREP	296-22464-2-ND	17V, 1.5A, Sync. Step-Down Converter ***NEW!***	16-QFN	18225.00/3,000		
TPS62111RSAT	296-20670-1-ND	17V, 1.5A Sync. Step-Down Converter	16-QFN	3.90	3.12	2.64
TPS62111RSAT	296-20670-2-ND	17V, 1.5A Sync. Step-Down Converter	16-QFN	633.75/250		
TPS62112MRSAREP	296-22465-1-ND	17V, 1.5A, Sync. Step-Down Converter ***NEW!***	16-QFN	11.25	9.00	7.00
TPS62112MRSAREP	296-22465-2-ND	17V, 1.5A, Sync. Step-Down Converter ***NEW!***	16-QFN	18900.00/3,000		
TPS62112RSAT	296-19717-1-ND	17V, 1.5A Sync. Step-Down Converter	16-QFN	3.90	3.12	2.64
TPS62112RSAT	296-19717-2-ND	17V, 1.5A Sync. Step-Down Converter	16-QFN	633.75/250		
TPS62200DBVR	296-12716-1-ND	Adj., High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.00	1.60	1.20
TPS62200DBVR	296-12716-2-ND	Adj., High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3072.00/3,000		
TPS62200EVM-211	296-20622-ND	Evaluation Module for TPS62200	—	50.00	—	—
TPS62201DBVT	296-12717-1-ND	1.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.25	1.80	1.35
TPS62201DBVT	296-12717-2-ND	1.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	315.00/250		
TPS62202DBVR	296-16730-1-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.00	1.60	1.20
TPS62202DBVR	296-16730-2-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3072.00/3,000		
TPS62202DBVT	296-12718-1-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.25	1.80	1.35
TPS62202DBVT	296-12718-2-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	315.00/250		
TPS62203DBVT	296-12719-1-ND	3.3V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.25	1.80	1.35
TPS62203DBVT	296-12719-2-ND	3.3V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	315.00/250		
TPS62203EVM-211	296-20623-ND	Evaluation Module for TPS62203	—	50.00	—	—
TPS62204DBVT	296-12720-1-ND	1.6V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.25	1.80	1.35
TPS62204DBVT	296-12720-2-ND	1.6V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	315.00/250		
TPS62205DBVT	296-12721-1-ND	2.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.25	1.80	1.35
TPS62205DBVT	296-12721-2-ND	2.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	315.00/250		
TPS62207DBVT	296-17197-1-ND	1.2V, High Efficiency Sync. Step-Down Converter	SOT-23-5	2.25	1.80	1.35
TPS62207DBVT	296-17197-2-ND	1.2V, High Efficiency Sync. Step-Down Converter	SOT-23-5	315.00/250		
TPS62208DBVR	296-16966-1-ND	2.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.00	1.60	1.20
TPS62208DBVR	296-16966-2-ND	2.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3072.00/3,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS62220DDCT	296-15793-1-ND	Adj., 400mA, High Efficiency Step-Down Converter	TSOT-23-5	2.81	2.25	1.75
TPS62220DDCT	296-15793-2-ND	Adj., 400mA, High Efficiency Step-Down Converter	TSOT-23-5		415.75/250	
TPS62220EVM-014	296-18979-ND	Evaluation Module for TPS62220-014	—	50.00	—	—
TPS62221DDCT	296-15794-1-ND	1.5V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	2.81	2.25	1.75
TPS62221DDCT	296-15794-2-ND	1.5V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5		415.75/250	
TPS62221EVM-014	296-18980-ND	Evaluation Module for TPS62221-014	—	50.00	—	—
TPS62222DDCT	296-15795-1-ND	1.8V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	2.81	2.25	1.75
TPS62222DDCT	296-15795-2-ND	1.8V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5		415.75/250	
TPS62223DDCR	296-17025-1-ND	400mA/1.25MHz, High Efficiency, Step-Down Converter	TSOT-23	2.48	1.98	1.54
TPS62223DDCR	296-17025-2-ND	400mA/1.25MHz, High Efficiency, Step-Down Converter	TSOT-23		4158.00/3,000	
TPS62223DDCT	296-17104-1-ND	400mA/1.25MHz, High Efficiency, Step-Down Converter	TSOT-23	2.81	2.25	1.75
TPS62223DDCT	296-17104-2-ND	400mA/1.25MHz, High Efficiency, Step-Down Converter	TSOT-23		415.75/250	
TPS62224DDCT	296-15796-1-ND	1.6V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	2.81	2.25	1.75
TPS62224DDCT	296-15796-2-ND	1.6V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5		415.75/250	
TPS62227YZGT	296-19611-1-ND	400mA, 1.25MHz High Eff. Step-Down Converter	TSOT-23-5	2.81	2.25	1.75
TPS62227YZGT	296-19611-2-ND	400mA, 1.25MHz High Eff. Step-Down Converter	TSOT-23-5		415.75/250	
TPS62228DDCT	296-17453-1-ND	1.875V, 400mA, 1.25MHz Step-Down Converter	TSOT-23-5	2.81	2.25	1.75
TPS62228DDCT	296-17453-2-ND	1.875V, 400mA, 1.25MHz Step-Down Converter	TSOT-23-5		415.75/250	
TPS62229DDCT	296-17454-1-ND	1.7V, 400mA, 1.25MHz Step-Down Converter	TSOT-23-5	2.81	2.25	1.75
TPS62229DDCT	296-17454-2-ND	1.7V, 400mA, 1.25MHz Step-Down Converter	TSOT-23-5		415.75/250	
TPS62240DDCT	296-22466-1-ND	Adj., 300mA, 2.25MHz, Step-Down Converter ***NEW!***	TSOT-23-5	2.36	1.89	1.47
TPS62240DDCT	296-22466-2-ND	Adj., 300mA, 2.25MHz, Step-Down Converter ***NEW!***	TSOT-23-5		349.25/250	
TPS62240DRVT	296-22467-1-ND	Adj., 300mA, 2.25MHz, Step-Down Converter ***NEW!***	6-SON	2.48	1.98	1.54
TPS62240DRVT	296-22467-2-ND	Adj., 300mA, 2.25MHz, Step-Down Converter ***NEW!***	6-SON		365.75/250	
TPS62242DRVT	296-22855-1-ND	1.2V, 300mA, 2.25MHz Step-Down Converter ***NEW!***	6-SON	2.48	1.98	1.54
TPS62242DRVT	296-22855-2-ND	1.2V, 300mA, 2.25MHz Step-Down Converter ***NEW!***	6-SON		365.75/250	
TPS62243DRVT	296-22468-1-ND	1.8V, 300mA, 2.25MHz, Step-Down Converter ***NEW!***	6-SON	2.48	1.98	1.54
TPS62243DRVT	296-22468-2-ND	1.8V, 300mA, 2.25MHz, Step-Down Converter ***NEW!***	6-SON		365.75/250	
TPS62260DDCT	296-22469-1-ND	Adj., 600mA, 2.25MHz, Step-Down Converter ***NEW!***	TSOT-23-5	2.81	2.25	1.75
TPS62260DDCT	296-22469-2-ND	Adj., 600mA, 2.25MHz, Step-Down Converter ***NEW!***	TSOT-23-5		415.75/250	
TPS62260DRVT	296-22470-1-ND	Adj., 600mA, 2.25MHz, Step-Down Converter ***NEW!***	6-SON	2.93	2.34	1.82
TPS62260DRVT	296-22470-2-ND	Adj., 600mA, 2.25MHz, Step-Down Converter ***NEW!***	6-SON		432.25/250	
TPS62261DRVT	296-22471-1-ND	1.8V, 600mA, 2.25MHz, Step-Down Converter ***NEW!***	6-SON	2.93	2.34	1.82
TPS62261DRVT	296-22471-2-ND	1.8V, 600mA, 2.25MHz, Step-Down Converter ***NEW!***	6-SON		432.25/250	
TPS62262DRVT	296-22472-1-ND	1.2V, 600mA, 2.25MHz, Step-Down Converter ***NEW!***	6-SON	2.93	2.34	1.82
TPS62262DRVT	296-22472-2-ND	1.2V, 600mA, 2.25MHz, Step-Down Converter ***NEW!***	6-SON		432.25/250	
TPS62263DRVR	296-23303-1-ND	2.5V, 600mA, 2.25MHz, Step-Down Converter ***NEW!***	6-SON	2.59	2.07	1.61
TPS62263DRVR	296-23303-2-ND	2.5V, 600mA, 2.25MHz, Step-Down Converter ***NEW!***	6-SON		4347.00/3,000	
TPS62290DRVT	296-22473-1-ND	Adj., 1A Step-Down Converter ***NEW!***	6-SON	4.05	3.24	2.52
TPS62290DRVT	296-22473-2-ND	Adj., 1A Step-Down Converter ***NEW!***	6-SON		598.50/250	
TPS62291DRVT	296-23330-1-ND	3.3V, 1A Step-Down Converter ***NEW!***	6-SON	4.05	3.24	2.52
TPS62291DRVT	296-23330-2-ND	3.3V, 1A Step-Down Converter ***NEW!***	6-SON		598.50/250	
TPS62293DRVR	296-23104-1-ND	1.8V, 1A Step-Down Converter ***NEW!***	6-SON	3.60	2.88	2.24
TPS62293DRVR	296-23104-2-ND	1.8V, 1A Step-Down Converter ***NEW!***	6-SON		6048.00/3,000	
TPS62300EVM-085	296-18981-ND	Evaluation Module for TPS62300-085	—	50.00	—	—
TPS62300YZDR	296-18280-1-ND	500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	3.04	2.43	1.89
TPS62300YZDR	296-18280-2-ND	500mA, 3MHz Sync. Step-Down Converter	8-DSBGA		5103.00/3,000	
TPS62301DRCR	296-17990-1-ND	500mA, 3MHz Sync. Step-Down Converter	10-SON	2.93	2.34	1.82
TPS62301DRCR	296-17990-2-ND	500mA, 3MHz Sync. Step-Down Converter	10-SON		4914.00/3,000	
TPS62301YZDR	296-17290-1-ND	500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	3.04	2.43	1.89
TPS62301YZDR	296-17290-2-ND	500mA, 3MHz Sync. Step-Down Converter	8-DSBGA		5103.00/3,000	
TPS62302DRCR	296-18982-1-ND	1.6V, Sync. Step-Down Converter	10-SON	2.93	2.34	1.82
TPS62302DRCR	296-18982-2-ND	1.6V, Sync. Step-Down Converter	10-SON		4914.00/3,000	
TPS62302YZDR	296-17292-1-ND	1.6V, Sync. Step-Down Converter	8-DSBGA	3.04	2.43	1.89
TPS62302YZDR	296-17292-2-ND	1.6V, Sync. Step-Down Converter	8-DSBGA		5103.00/3,000	
TPS62303DRCR	296-18983-1-ND	1.8V, Sync. Step-Down Converter	10-SON	2.93	2.34	1.82
TPS62303DRCR	296-18983-2-ND	1.8V, Sync. Step-Down Converter	10-SON		4914.00/3,000	
TPS62303YZDT	296-17291-1-ND	1.8V, Sync. Step-Down Converter	8-DSBGA	3.38	2.70	2.10
TPS62303YZDT	296-17291-2-ND	1.8V, Sync. Step-Down Converter	8-DSBGA		498.75/250	
TPS62304DRCR	296-19297-1-ND	1.2V, 500mA, 3MHz Sync. Step-Down Converter	10-SON	2.93	2.34	1.82
TPS62304DRCR	296-19297-2-ND	1.2V, 500mA, 3MHz Sync. Step-Down Converter	10-SON		4914.00/3,000	
TPS62304YZDR	296-19298-1-ND	1.2V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	3.04	2.43	1.89
TPS62304YZDR	296-19298-2-ND	1.2V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA		5103.00/3,000	
TPS62305DRCR	296-18984-1-ND	1.875V, Sync. Step-Down Converter	10-SON	2.93	2.34	1.82
TPS62305DRCR	296-18984-2-ND	1.875V, Sync. Step-Down Converter	10-SON		4914.00/3,000	
TPS62305YZDR	296-18250-1-ND	1.875V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	3.04	2.43	1.89
TPS62305YZDR	296-18250-2-ND	1.875V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA		5103.00/3,000	
TPS62311YZDR	296-18251-1-ND	1.5V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	3.04	2.43	1.89
TPS62311YZDR	296-18251-2-ND	1.5V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA		5103.00/3,000	
TPS62313YZDR	296-18304-1-ND	1.8V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA	3.04	2.43	1.89
TPS62313YZDR	296-18304-2-ND	1.8V, 500mA, 3MHz Sync. Step-Down Converter	8-DSBGA		5103.00/3,000	
TPS62315YZR	296-22897-1-ND	500mA, 3MHz Sync. Step-Down Converter ***NEW!***	8-CSP	2.93	2.34	1.82
TPS62315YZR	296-22897-2-ND	500mA, 3MHz Sync. Step-Down Converter ***NEW!***	8-CSP		4914.00/3,000	
TPS62320DRCR	296-18985-1-ND	Adj., Sync. Step-Down Converter	10-SON	2.93	2.34	1.82
TPS62320DRCR	296-18985-2-ND	Adj., Sync. Step-Down Converter	10-SON		4914.00/3,000	
TPS62320YEDT	296-17293-1-ND	Adj., Sync. Step-Down Converter	8-CSP	3.38	2.70	2.10
TPS62320YEDT	296-17293-2-ND	Adj., Sync. Step-Down Converter	8-CSP		498.75/250	
TPS62320YZDT	296-17294-1-ND	Adj., Sync. Step-Down Converter	8-DSBGA	3.38	2.70	2.10
TPS62320YZDT	296-17294-2-ND	Adj., Sync. Step-Down Converter	8-DSBGA		498.75/250	
TPS62321DRCR	296-18986-1-ND	1.5V, Sync. Step-Down Converter	10-SON	2.93	2.34	1.82
TPS62321DRCR	296-18986-2-ND	1.5V, Sync. Step-Down Converter	10-SON		4914.00/3,000	
TPS62321YEDT	296-17295-1-ND	1.5V, Sync. Step-Down Converter	8-CSP	3.38	2.70	2.10
TPS62321YEDT	296-17295-2-ND	1.5V, Sync. Step-Down Converter	8-CSP		498.75/250	
TPS62321YZDT	296-17296-1-ND	1.5V, Sync. Step-Down Converter	8-DSBGA	3.38	2.70	2.10
TPS62321YZDT	296-17296-2-ND	1.5V, Sync. Step-Down Converter	8-DSBGA		498.75/250	
TPS62350YZGR	296-20662-1-ND	3MHz, 800mA Sync. Step-Down Converter	12-DSBGA	3.26	2.61	2.03
TPS62350YZGR	296-20662-2-ND	3MHz, 800mA Sync. Step-Down Converter	12-DSBGA		5481.00/3,000	
TPS62351DRCR	296-22474-1-ND	3MHz, 800mA Sync. Step-Down Converter ***NEW!***	10-SON	3.26	2.61	2.03
TPS62351DRCR	296-22474-2-ND	3MHz, 800mA Sync. Step-Down Converter ***NEW!***	10-SON		5481.00/3,000	
TPS62351YZGR	296-21427-1-ND	3MHz, 800mA Sync. Step-Down Converter	12-CSP	3.26	2.61	2.03
TPS62351YZGR	296-21427-2-ND	3MHz, 800mA Sync. Step-Down Converter	12-CSP		5481.00/3,000	
TPS62352YZGR	296-21428-1-ND	3MHz, 800mA Sync. Step-Down Converter	12-CSP	3.26	2.61	2.03
TPS62352YZGR	296-21428-2-ND	3MHz, 800mA Sync. Step-Down Converter	12-CSP		5481.00/3,000	
TPS62353YZGR	296-21644-1-ND	3MHz, 800mA, Sync. Step-Down Converter	12-DSBGA	3.26	2.61	2.03
TPS62353YZGR	296-21644-2-ND	3MHz, 800mA Sync. Step-Down Converter	12-DSBGA		5481.00/3,000	
TPS62354YZGR	296-21645-1-ND	3MHz, 800mA Sync. Step-Down Converter	12-DSBGA	3.26	2.61	2.03
TPS62354YZGR	296-21645-2-ND	3MHz, 800mA Sync. Step-Down Converter	12-DSBGA		5481.00/3,000	
TPS62355DRCR	296-22677-1-ND	3MHz, 800mA Sync. Step-Down Converter ***NEW!***	10-SON	3.26	2.61	2.03
TPS62355DRCR	296-22677-2-ND	3MHz, 800mA Sync. Step-Down Converter ***NEW!***	10-SON		5481.00/3,000	
TPS62356YZGR	296-22982-1-ND	3MHz, 800mA Sync. Step-Down Converter ***NEW!***	12-DSBGA	3.26	2.61	2.03
TPS62356YZGR	296-22982-2-ND	3MHz, 800mA Sync. Step-Down Converter ***NEW!***	12-DSBGA		5481.00/3,000	
TPS62400DRCT	296-20690-1-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN	5.50	4.40	3.72
TPS62400DRCT	296-20690-2-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN		893.75/250	
TPS62401DRCT	296-20691-1-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN	5.00	4.00	3.38
TPS62401DRCT	296-20691-2-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN		893.75/250	
TPS62402DRCT	296-21646-1-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN	5.50	4.40	3.72
TPS62402DRCT	296-21646-2-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN		893.75/250	
TPS62403DRCT	296-21348-1-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN	5.50	4.40	3.72
TPS62403DRCT	296-21348-2-ND	2.25MHz, 400mA/600mA Dual Step-Down Converter	10-QFN		893.75/250	
TPS62410DRCT	296-21647-1-ND	2.25MHz, 2x800mA Dual Step-Down Converter	10-QFN	5.80	4.64	3.92
TPS62410DRCT	296-21647-2-ND	2.25MHz, 2x800mA Dual Step-Down Converter	10-QFN		942.50/250	
TPS62420DRCT	296-20692-1-ND	2.25MHz, 600mA/1000mA Dual Step-Down Converter	10-SON	6.50	5.20	4.39
TPS62420DRCT	296-20692-2-ND	2.25MHz, 600mA/1000mA Dual Step-Down Converter	10-SON		1056.25/250	
TPS62560DRVT	296-23105-1-ND	2.25MHz, 600mA Step-Down Converter ***NEW!***	6-SON	2.93	2.34	1.82
TPS62560DRVT	296-23105-2-ND	2.25MHz, 600mA Step-Down Converter ***NEW!***	6-SON		432.25/250	
TPS62510DRCR	296-19793-1-ND	1.5A High Efficiency Step-Down Converter	10-SON	5.29	4.23	3.29

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS62510DRCR	296-19793-2-ND	1.5A High Efficiency Step-Down Converter	10-SON	6615.00/3,000		
TPS62700YZFR	296-22983-1-ND	2MHz, 650mA Step-Down Converter ***NEW!***	8-DSBGA	4.16	3.33	2.59
TPS62700YZFR	296-22983-2-ND	2MHz, 650mA Step-Down Converter ***NEW!***	8-DSBGA	6993.00/3,000		
TPS63700DRCT	296-18729-1-ND	DC/DC Inverter	10-SON	4.16	3.33	2.59
TPS63700DRCT	296-18729-2-ND	DC/DC Inverter	10-SON	615.25/250		
TPS63700EVM139	296-18730-ND	Evaluation Module For TPS63700	—	50.00	—	—
TPS64200DBVT	296-15704-1-ND	Adj., Step-Down Controller	SOT-23-6	1.50	1.20	.90
TPS64200DBVT	296-15704-2-ND	Adj., Step-Down Controller	SOT-23-6	210.00/250		
TPS64201DBVT	296-15705-1-ND	Adj., Step-Down Controller	SOT-23-6	1.50	1.20	.90
TPS64201DBVT	296-15705-2-ND	Adj., Step-Down Controller	SOT-23-6	210.00/250		
TPS64202DBVT	296-15706-1-ND	Adj., Step-Down Controller	SOT-23-6	1.50	1.20	.90
TPS64202DBVT	296-15706-2-ND	Adj., Step-Down Controller	SOT-23-6	210.00/250		
TPS64202EVM-023	296-18987-ND	Evaluation Module for TPS64202-023	—	50.00	—	—
TPS64203DBVT	296-15707-1-ND	Adj., Step-Down Controller	SOT-23-6	1.50	1.20	.90
TPS64203DBVT	296-15707-2-ND	Adj., Step-Down Controller	SOT-23-6	210.00/250		
TPS65100EVM-030	296-18990-ND	Evaluation Module for TPS65100-030	—	50.00	—	—
TPS65100PWPR	296-17082-1-ND	Triple Output LCD Supply	24-TSSOP	2.70	2.16	1.68
TPS65100PWPR	296-17082-2-ND	Triple Output LCD Supply	24-TSSOP	3060.00/2,000		
TPS65100RGER	296-18991-1-ND	Triple Output LCD Supply	24-QFN	2.81	2.25	1.75
TPS65100RGER	296-18991-2-ND	Triple Output LCD Supply	24-QFN	4725.00/3,000		
TPS65101PWPR	296-19711-1-ND	Triple Output LCD Supply	24-HTSSOP	2.70	2.16	1.68
TPS65101PWPR	296-19711-2-ND	Triple Output LCD Supply	24-HTSSOP	3060.00/2,000		
TPS65101RGER	296-19712-1-ND	Triple Output LCD Supply	24-QFN	2.81	2.25	1.75
TPS65101RGER	296-19712-2-ND	Triple Output LCD Supply	24-QFN	4725.00/3,000		
TPS65105PWPR	296-18992-1-ND	Triple Out LCD Supply with Linear Reg. and VCOM Buffer	24-HTSSOP	2.70	2.16	1.68
TPS65105PWPR	296-18992-2-ND	Triple Out LCD Supply with Linear Reg. and VCOM Buffer	24-HTSSOP	3060.00/2,000		
TPS65105RGER	296-18993-1-ND	Triple Out LCD Supply with Linear Reg. and VCOM Buffer	24-QFN	2.81	2.25	1.75
TPS65105RGER	296-18993-2-ND	Triple Out LCD Supply with Linear Reg. and VCOM Buffer	24-QFN	4725.00/3,000		
TPS65110RGE	296-15797-ND	Triple Charge Pump LTPS-LCD Bias Power Supply	24-QFN	2.93	2.34	1.82
TPS65110RGER	296-15841-1-ND	Triple Charge Pump LTPS-LCD Bias Power Supply	24-QFN	2.93	2.34	1.82
TPS65110RGER	296-15841-2-ND	Triple Charge Pump LTPS-LCD Bias Power Supply	24-QFN	4914.00/3,000		
TPS65120EVM-076	296-18994-ND	Evaluation Module for TPS65120-076	—	50.00	—	—
TPS65120RGTR	296-17181-1-ND	Single Inductor, Quad Output, TFT Display	16-QFN	3.04	2.43	1.89
TPS65120RGTR	296-17181-2-ND	Single Inductor, Quad Output, TFT Display	16-QFN	5103.00/3,000		
TPS65121RGTR	296-17182-1-ND	Single Inductor, Quad Output, TFT Display	16-QFN	3.04	2.43	1.89
TPS65121RGTR	296-17182-2-ND	Single Inductor, Quad Output, TFT Display	16-QFN	5103.00/3,000		
TPS65123RGTR	296-17183-1-ND	Single Inductor, Triple Output, TFT Display	16-QFN	3.04	2.43	1.89
TPS65123RGTR	296-17183-2-ND	Single Inductor, Triple Output, TFT Display	16-QFN	5103.00/3,000		
TPS65124EVM-076	296-18995-ND	Evaluation Module for TPS65124-076	—	50.00	—	—
TPS65124RGTR	296-17184-1-ND	Single Inductor, Triple Output, TFT Display	16-QFN	3.04	2.43	1.89
TPS65124RGTR	296-17184-2-ND	Single Inductor, Triple Output, TFT Display	16-QFN	5103.00/3,000		
TPS65130EVM-063	296-18996-ND	Evaluation Module for TPS65130-063	—	50.00	—	—
TPS65130RGER	296-17080-1-ND	Positive/Negative Output DC/DC Converter	24-QFN	5.18	4.14	3.22
TPS65130RGER	296-17080-2-ND	Positive/Negative Output DC/DC Converter	24-QFN	8694.00/3,000		
TPS65131EVM-063	296-17872-ND	Evaluation Module for TPS65131-63	—	50.00	—	—
TPS65131RGET	296-17349-1-ND	Dual Output DC/DC Converter	24-QFN	6.60	5.28	4.46
TPS65131RGET	296-17349-2-ND	Dual Output DC/DC Converter	24-QFN	1072.50/250		
TPS65140EVM-031	296-18997-ND	Evaluation Module for TPS65140-031	—	50.00	—	—
TPS65140PWPR	296-18998-1-ND	Triple Out LCD Supply with Linear Reg. and Power Good	24-HTSSOP	2.48	1.98	1.54
TPS65140PWPR	296-18998-2-ND	Triple Out LCD Supply with Linear Reg. and Power Good	24-HTSSOP	2806.00/2,000		
TPS65140RGER	296-18999-1-ND	Triple Out LCD Supply with Linear Reg. and Power Good	24-QFN	2.59	2.07	1.61
TPS65140RGER	296-18999-2-ND	Triple Out LCD Supply with Linear Reg. and Power Good	24-QFN	4347.00/3,000		
TPS65141PWPR	296-19713-1-ND	Triple Output LCD Supply	24-HTSSOP	2.48	1.98	1.54
TPS65141PWPR	296-19713-2-ND	Triple Output LCD Supply	24-HTSSOP	2806.00/2,000		
TPS65141RGER	296-19714-1-ND	Triple Output LCD Supply	24-QFN	2.59	2.07	1.61
TPS65141RGER	296-19714-2-ND	Triple Output LCD Supply	24-QFN	4347.00/3,000		
TPS65145PWPR	296-19000-1-ND	Triple Out LCD Supply with Linear Reg. and Power Good	24-HTSSOP	2.48	1.98	1.54
TPS65145PWPR	296-19000-2-ND	Triple Out LCD Supply with Linear Reg. and Power Good	24-HTSSOP	2806.00/2,000		
TPS65150PWPR	296-21166-1-ND	Low Input Voltage, Compact LCD Bias IC	24-TSSOP	2.48	1.98	1.54
TPS65150PWPR	296-21166-2-ND	Low Input Voltage, Compact LCD Bias IC	24-TSSOP	2806.00/2,000		
TPS65150RGER	296-21167-1-ND	Low Input Voltage, Compact LCD Bias IC	24-QFN	2.59	2.07	1.61
TPS65150RGER	296-21167-2-ND	Low Input Voltage, Compact LCD Bias IC	24-QFN	4347.00/3,000		
TPS65530RSLR	296-22947-1-ND	Fully Integrated 8-Channel DC/DC Converter for Digital Still Cameras ***NEW!***	48-QFN	7.80	6.24	5.27
TPS65530RSLR	296-22947-2-ND	Fully Integrated 8-Channel DC/DC Converter for Digital Still Cameras ***NEW!***	48-QFN	12090.00/2,500		
TRF1112IRGZT	296-19896-1-ND	Dual VCO/PLL Synthesizer	48-QFN	21.23	19.81	18.40
TRF1112IRGZT	296-19896-2-ND	Dual VCO/PLL Synthesizer	48-QFN	4510.25/250		
TRF1121IRGZT	296-19897-1-ND	Dual VCO/PLL Synthesizer	48-QFN	21.23	19.81	18.40
TRF1121IRGZT	296-19897-2-ND	Dual VCO/PLL Synthesizer	48-QFN	4510.25/250		
TRF3761-BIRHAT	296-21354-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.58	13.13	11.64
TRF3761-BIRHAT	296-21354-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2789.00/250		
TRF3761-CIRHAT	296-21355-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.58	13.13	11.64
TRF3761-CIRHAT	296-21355-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2789.00/250		
TRF3761-DIRHAT	296-21356-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.58	13.13	11.64
TRF3761-DIRHAT	296-21356-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2789.00/250		
TRF3761-EIRHAT	296-21357-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.58	13.13	11.64
TRF3761-EIRHAT	296-21357-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2789.00/250		
TRF3761-FIRHAT	296-21565-1-ND	Integer-N PLL with Integrated VCO	40-QFN	13.24	11.93	10.58
TRF3761-FIRHAT	296-21565-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2534.00/250		
TRF3761-GIRHAT	296-21566-1-ND	Integer-N PLL with Integrated VCO	40-QFN	13.24	11.93	10.58
TRF3761-GIRHAT	296-21566-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2534.00/250		
TRF3761-HIRHAT	296-21358-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.58	13.13	11.64
TRF3761-HIRHAT	296-21358-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2789.00/250		
TRF3761-JIRHAT	296-21359-1-ND	Integer-N PLL with Integrated VCO	40-QFN	14.58	13.13	11.64
TRF3761-JIRHAT	296-21359-2-ND	Integer-N PLL with Integrated VCO	40-QFN	2789.00/250		
UCC3941DTR-3	296-2280-1-ND	1V to 3V Sync. Boost Converter	8-SOIC	3.38	2.70	2.10
UCC3941N-5	296-3229-5-ND	5V Synchronous Boost Converter	8-Dip	4.05	3.24	2.52
UCC39411EVM	296-11544-ND	Evaluation Module for UCC39411	—	50.00	—	—

Isolators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ISO72XEVM	296-20849-ND	Evaluation Module for ISO72X	—	50.00	—	—
ISO150AU	ISO150AU-ND	Dual, Isolated, Bidir. Digital Coupler	12-SOP	13.49	—	—
ISO150MDVBREP	296-22161-1-ND	Dual, Isolated, Bidirectional Digital Coupler ***NEW!***	12-SOP	2.25	1.80	1.40
ISO150MDVBREP	296-22161-2-ND	Dual, Isolated, Bidirectional Digital Coupler ***NEW!***	12-SOP	1275.00/1,000		
ISO721D	296-19382-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	3.15	2.52	1.96
ISO721MD	296-19381-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	3.26	2.61	2.03
ISO722DR	296-19768-1-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	3.15	2.52	1.96
ISO722DR	296-19768-2-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	4410.00/2,500		
ISO722MDR	296-19769-1-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	3.26	2.61	2.03
ISO722MDR	296-19769-2-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	4567.50/2,500		
ISO7220ADR	296-21952-1-ND	1Mbps, Dual Digital Isolator	8-SOIC	2.38	1.90	1.43
ISO7220ADR	296-21952-2-ND	1Mbps, Dual Digital Isolator	8-SOIC	3040.00/2,500		
ISO7220BD	296-23343-5-ND	5Mbps, Dual Digital Isolator ***NEW!***	8-SOIC	2.70	2.16	1.68
ISO7220CDR	296-21953-1-ND	25Mbps, Dual Digital Isolator	8-SOIC	4.50	3.60	2.80
ISO7220CDR	296-21953-2-ND	25Mbps, Dual Digital Isolator	8-SOIC	6300.00/2,500		
ISO7220MDR	296-21954-1-ND	150Mbps, Dual Digital Isolator	8-SOIC	5.00	4.00	3.38
ISO7220MDR	296-21954-2-ND	150Mbps, Dual Digital Isolator	8-SOIC	7750.00/2,500		
ISO7221ADR	296-21955-1-ND	1Mbps, Dual Digital Isolator	8-SOIC	2.38	1.90	1.43
ISO7221ADR	296-21955-2-ND	1Mbps, Dual Digital Isolator	8-SOIC	3040.00/2,500		
ISO7221BD	296-23344-5-ND	5Mbps, Dual Digital Isolator ***NEW!***	8-SOIC	2.70	2.16	1.68
ISO7221CDR	296-21956-1-ND	25Mbps, Dual Digital Isolator	8-SOIC	4.50	3.60	2.80
ISO7221CDR	296-21956-2-ND	25Mbps, Dual Digital Isolator	8-SOIC	6300.00/2,500		
ISO7221MDR	296-21957-1-ND	150Mbps, Dual Digital Isolator	8-SOIC	5.00	4.00	3.38
ISO7221MDR	296-21957-2-ND	150Mbps, Dual Digital Isolator	8-SOIC	7750.00/2,500		
ISO7230ADW	296-22624-5-ND	Triple 1Mbps Digital Isolator ***NEW!***	16-SOIC	3.38	2.70	2.10
ISO7230CDW	296-22625-5-ND	Triple 25Mbps Digital Isolator ***NEW!***	16-SOIC	5.51	4.41	3.43
ISO7230MDW	296-22626-5-ND	Triple 150Mbps Digital Isolator ***NEW!***	16-SOIC	7.00	5.60	4.73
ISO7231ADW	296-22959-5-ND	Triple 1Mbps Digital Isolator ***NEW!***	16-SOIC	3.38	2.70	2.10
ISO7231CDW	296-22960-5-ND	Triple 25Mbps Digital Isolator ***NEW!***	16-SOIC	5.51	4.41	3.43
ISO7231MDW	296-22961-5-ND	Triple 150Mbps Digital Isolator ***NEW!***	16-SOIC	7.00	5.60	4.73
ISO7240ADW	296-22627-5-ND	Quad 1Mbps Digital Isolator ***NEW!***	16-SOIC	4.28	3.42	2.66
ISO7240CDW	296-22628-5-ND	Quad 25Mbps Digital Isolator ***NEW!***	16-SOIC	5.80	4.64	3.92
ISO7240CFDWR	296-22617-1-ND	Quad 25Mbps Digital Isolator ***NEW!***	16-SOIC	6.00	4.80	4.05
ISO7240CFDWR	296-22617-2-ND	Quad 25Mbps Digital Isolator ***NEW!***	16-SOIC	7500.00/2,000		
ISO7240MDW	296-22629-5-ND	Quad 150Mbps Digital Isolator ***NEW!***	16-SOIC	8.20	6.56	5.54
ISO7241ADW	296-22962-5-ND	Quad 1Mbps Digital Isolator ***NEW!***	16-SOIC	4.28	3.42	2.66
ISO7241CDW	296-22963-5-ND	Quad 25Mbps Digital Isolator ***NEW!***	16-SOIC	5.80	4.64	3.92
ISO7241MDW	296-22964-5-ND	Quad 150Mbps Digital Isolator ***NEW!***	16-SOIC	8.20	6.56	5.54
ISO7242ADW	296-22965-5-ND	Quad 1Mbps Digital Isolator ***NEW!***	16-SOIC	4.28	3.42	2.66
ISO7242CDW	296-22966-5-ND	Quad 25Mbps Digital Isolator ***NEW!***	16-SOIC	5.80	4.64	3.92
ISO7242MDW	296-22967-5-ND	Quad 150Mbps Digital Isolator ***NEW!***	16-SOIC	8.20	6.56	5.54

Microprocessor Supervisory Circuit Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL7700CPWR	296-13050-1-ND	Adj., Supply Voltage Supervisor	8-TSSOP	2.81	2.25	1.75
TL7700CPWR	296-13050-2-ND	Adj., Supply Voltage Supervisor	8-TSSOP	3188.00/2,000		
TL7702ACD	296-1295-5-ND	2.53V Supply Monitor	8-SOIC	.56	.42	.32
TL7702ACDR	296-1295-1-ND	2.53V Supply Monitor	8-SOIC	.48	.37	.28
TL7702ACDR	296-1295-2-ND	2.53V Supply Monitor	8-SOIC	392.50/2,500		
TL7702ACP	296-3232-5-ND	2.53V Supply Monitor	8-Dip	.56	.42	.32
TL7702AID	296-3233-5-ND	2.53V Supply Monitor	8-SOIC	.64	.48	.36
TL7702AIDR	296-15017-1-ND	Supply Voltage Supervisor	8-SOIC	.64	.48	.36
TL7702AIDR	296-15017-2-ND	Supply Voltage Supervisor	8-SOIC	520.00/2,500		
TL7702AIP	296-3234-5-ND	2.53V Supply Monitor	8-Dip	.64	.48	.36
TL7702BCD	296-1296-5-ND	2.53V Supply Monitor	8-SOIC	.60	.45	.34
TL7702BCDR	296-1296-1-ND	2.53V Supply Monitor	8-SOIC	.60	.45	.34
TL7702BCDR	296-1296-2-ND	2.53V Supply Monitor	8-SOIC	487.50/2,500		
TL7702BCP	296-3236-5-ND	2.53V Supply Monitor	8-Dip	.60	.45	.34
TL7702BIDR	296-15018-1-ND	2.53V Supply Monitor	8-SOIC	.66	.50	.38
TL7702BIDR	296-15018-2-ND	2.53V Supply Monitor	8-SOIC	537.50/2,500		
TL7702BIP	296-3238-5-ND	2.53V Supply Monitor	8-Dip	.72	.54	.41
TL7705ACD	296-1297-5-ND	4.55V Supply Monitor	8-SOIC	.53	.40	.30
TL7705ACDR	296-1297-1-ND	4.55V Supply Monitor	8-SOIC	.56	.42	.32
TL7705ACDR	296-1297-2-ND	4.55V Supply Monitor	8-SOIC	455.00/2,500		
TL7705ACP	296-1801-5-ND	4.55V Supply Monitor	8-Dip	.53	.40	.30
TL7705ACPSR	296-3239-1-ND	4.55V Supply Monitor	8-SOIC	.56	.42	.32
TL7705ACPSR	296-3239-2-ND	4.55V Supply Monitor	8-SOIC	372.00/2,000		
TL7705AID	296-3240-5-ND	4.55V Supply Monitor	8-SOIC	.64	.48	.36
TL7705AIDR	296-15019-1-ND	4.55V Supply Monitor	8-SOIC	.64	.48	.36
TL7705AIDR	296-15019-2-ND	4.55V Supply Monitor	8-SOIC	520.00/2,500		
TL7705AIP	296-3241-5-ND	4.55V Supply Monitor	8-Dip	.64	.48	.36
TL7705BCD	296-1298-5-ND	4.55V Supply Monitor	8-SOIC	.60	.45	.34
TL7705BCDR	296-1298-1-ND	4.55V Supply Monitor	8-SOIC	.60	.45	.34
TL7705BCDR	296-1298-2-ND	4.55V Supply Monitor	8-SOIC	487.50/2,500		
TL7705BCP	296-3242-5-ND	4.55V Supply Monitor	8-Dip	.60	.45	.34
TL7705BID	296-3243-5-ND	4.55V Supply Monitor	8-SOIC	.72	.54	.41
TL7705BIDR	296-15020-1-ND	4.55V Supply Monitor	8-SOIC	.72	.54	.41
TL7705BIDR	296-15020-2-ND	4.55V Supply Monitor	8-SOIC	585.00/2,500		
TL7705BIP	296-3244-5-ND	4.55V Supply Monitor	8-Dip	.72	.54	.41
TL7705BQD	296-3245-5-ND	4.55V Supply Monitor	8-SOIC	1.88	1.50	1.13
TL7709ACD	296-3247-5-ND	7.6V Supply Monitor	8-SOIC	1.41	1.18	.94
TL7709ACP	296-3248-5-ND	7.6V Supply Monitor	8-Dip	1.41	1.18	.94
TL7712ACD	296-3249-5-ND	10.8V Supply Monitor	8-SOIC	.84	.70	.56
TL7712ACDR	296-15021-1-ND	10.8V Supply Monitor	8-SOIC	.84	.70	.56

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL7712ACDR	296-15021-2-ND	10.8V Supply Monitor	8-SOIC	910.00/2,500		
TL7712ACP	296-3250-5-ND	10.8V Supply Monitor	8-Dip	.84	.70	.56
TL7715ACD	296-3251-5-ND	Supply Voltage Supervisor	8-SOP	1.41	1.18	.94
TL7715ACP	296-3252-5-ND	Supply Voltage Supervisor	8-Dip	1.41	1.18	.94
TL7726CD	296-3253-5-ND	Hex Clamping Circuit	8-SOIC	1.63	1.30	.98
TL7726CDR	296-15022-1-ND	Hex Clamping Circuit	8-SOIC	1.63	1.30	.98
TL7726CDR	296-15022-2-ND	Hex Clamping Circuit	8-SOIC	2080.00/2,500		
TL7726CP	296-3254-5-ND	Hex Clamping Circuit	8-Dip	1.63	1.30	.98
TL7726ID	296-3255-5-ND	Hex Clamping Circuit	8-SOIC	1.75	1.40	1.05
TL7726IP	296-3256-5-ND	Hex Clamping Circuit	8-Dip	1.75	1.40	1.05
TL7733BCDR	296-12952-1-ND	Supply Voltage Supervisor	8-SOIC	.60	.45	.34
TL7733BCDR	296-12952-2-ND	Supply Voltage Supervisor	8-SOIC	487.50/2,500		
TL7733BCP	296-12953-5-ND	Supply Voltage Supervisor	8-Dip	.60	.45	.34
TL7733BIDR	296-13356-1-ND	Supply Voltage Supervisor	8-SOIC	.72	.54	.41
TL7733BIDR	296-13356-2-ND	Supply Voltage Supervisor	8-SOIC	585.00/2,500		
TL7733BIP	296-13357-5-ND	Supply Voltage Supervisor	8-Dip	.72	.54	.41
TL7757CD	296-3257-5-ND	4.55V Supply Monitor/Voltage Detector	8-SOP	.72	.54	.41
TL7757CDR	296-15023-1-ND	4.55V Supply Monitor/Volt. Detector	8-SOIC	.72	.54	.41
TL7757CDR	296-15023-2-ND	4.55V Supply Monitor/Volt. Detector	8-SOIC	585.00/2,500		
TL7757CLP	296-1992-ND	4.55V Supply Monitor/Volt. Detector	TO-92	.72	.54	.41
TL7757CLPR	296-1992-1-ND	4.55V Supply Monitor/Volt. Detector	TO-92	.72	.54	.41
TL7757CLPR	296-1992-2-ND	4.55V Supply Monitor/Volt. Detector	TO-92	478.00/2,000		
TL7757CPK	296-3259-1-ND	4.55V Supply Monitor/Volt. Detector	SOT-89	.57	.43	.33
TL7757CPK	296-3259-2-ND	4.55V Supply Monitor/Volt. Detector	SOT-89	190.00/1,000		
TL7757ID	296-3260-5-ND	4.55V Supply Monitor/Volt. Detector	8-SOIC	.80	.60	.45
TL7757ILP	296-3261-5-ND	4.55V Supply Monitor/Volt. Detector	TO-92	.80	.60	.45
TL7757IPK	296-3262-1-ND	4.55V Supply Monitor/Volt. Detector	SOT-89	.75	.63	.50
TL7757IPK	296-3262-2-ND	4.55V Supply Monitor/Volt. Detector	SOT-89	333.00/1,000		
TL7759CD	296-3263-5-ND	4.55V Supply Monitor	8-SOIC	1.47	1.23	.98
TL7759CP	296-3264-5-ND	4.55V Supply Monitor	8-Dip	1.47	1.23	.98
TL7759CPWR	296-1299-1-ND	4.55V Supply Monitor	8-TSSOP	1.47	1.23	.98
TL7759CPWR	296-1299-2-ND	4.55V Supply Monitor	8-TSSOP	1304.00/2,000		
TL7770-5CDW	296-3265-5-ND	4.55V Dual Supply Monitor	16-SOIC	2.15	1.72	1.29
TL7770-5CDWR	296-15024-1-ND	4.55V Dual Supply Monitor	16-SOIC	2.15	1.72	1.29
TL7770-5CDWR	296-15024-2-ND	4.55V Dual Supply Monitor	16-SOIC	2236.00/2,000		
TL7770-5CN	296-3266-5-ND	4.55V Dual Supply Monitor	16-Dip	2.15	1.72	1.29
TL7770-5IDW	296-3267-5-ND	4.55V Dual Supply Monitor	16-SOIC	2.25	1.80	1.40
TL7770-12CDWR	296-12954-1-ND	Dual Power Supply Supervisor	16-SOIC	2.70	2.16	1.68
TL7770-12CDWR	296-12954-2-ND	Dual Power Supply Supervisor	16-SOIC	3060.00/2,000		
TLC7701ID	296-3268-5-ND	1.1V MPU Supply Volt. Supervisor	8-SOIC	1.55	1.24	.93
TLC7701IP	296-2608-5-ND	1.1V MPU Supply Volt. Supervisor	8-Dip	1.55	1.24	.93
TLC7701IPW	296-2609-5-ND	1.1V MPU Supply Volt. Supervisor	8-TSSOP	1.55	1.24	.93
TLC7701IPWR	296-2609-1-ND	1.1V MPU Supply Volt. Supervisor	8-TSSOP	1.55	1.24	.93
TLC7701IPWR	296-2609-2-ND	1.1V MPU Supply Volt. Supervisor	8-TSSOP	1612.00/2,000		
TLC7701MDREP	296-22415-1-ND	1.1V Micropower Supply Voltage Supervisor ***NEW!***	8-SOIC	4.16	3.33	2.59
TLC7701MDREP	296-22415-2-ND	1.1V Micropower Supply Voltage Supervisor ***NEW!***	8-SOIC	5827.50/2,500		
TLC7701MPWREP	296-19784-1-ND	1.1V Micropower Supply Voltage Supervisor ***NEW!***	8-TSSOP	3.74	2.99	2.33
TLC7701MPWREP	296-19784-2-ND	1.1V Micropower Supply Voltage Supervisor ***NEW!***	8-TSSOP	4234.00/2,000		
TLC7701QD	296-3270-5-ND	1.1V MPU Supply Volt. Supervisor	8-SOIC	1.68	1.34	1.01
TLC7701QP	296-3271-5-ND	1.1V MPU Supply Volt. Supervisor	8-Dip	1.68	1.34	1.01
TLC7701QPWREP	296-22416-1-ND	1.1V Micropower Supply Voltage Supervisor ***NEW!***	8-TSSOP	2.38	1.90	1.43
TLC7701QPWREP	296-22416-2-ND	1.1V Micropower Supply Voltage Supervisor ***NEW!***	8-TSSOP	2470.00/2,000		
TLC7703ID	296-3272-5-ND	2.63V MPU Supply Volt. Supervisor	8-SOIC	2.03	1.62	1.22
TLC7703IP	296-3273-5-ND	2.63V MPU Supply Volt. Supervisor	8-Dip	2.03	1.62	1.22
TLC7703IPWR	296-3274-1-ND	2.63V MPU Supply Volt. Supervisor	8-TSSOP	2.03	1.62	1.22
TLC7703IPWR	296-3274-2-ND	2.63V Micropower Supply Voltage Supervisor	8-TSSOP	2106.00/2,000		
TLC7703QD	296-2610-5-ND	2.63V Micropower Supply Voltage Supervisor	8-SOIC	2.15	1.72	1.29
TLC7703QP	296-13359-5-ND	2.63V Micropower Supply Voltage Supervisor	8-Dip	2.15	1.72	1.29
TLC7705ID	296-1872-5-ND	4.55V Micropower Supply Voltage Supervisor	8-SOIC	1.55	1.24	.93
TLC7705IP	296-3276-5-ND	4.55V Micropower Supply Voltage Supervisor	8-Dip	1.55	1.24	.93
TLC7705IPWR	296-3277-1-ND	4.55V Micropower Supply Voltage Supervisor	8-TSSOP	1.55	1.24	.93
TLC7705IPWR	296-3277-2-ND	4.55V Micropower Supply Voltage Supervisor	8-TSSOP	1612.00/2,000		
TLC7705QD	296-3278-5-ND	4.55V Micropower Supply Voltage Supervisor	8-SOIC	1.68	1.34	1.01
TLC7705QPWREP	296-22417-1-ND	4.55V Micropower Supply Voltage Supervisor ***NEW!***	8-TSSOP	2.38	1.90	1.43
TLC7705QPWREP	296-22417-2-ND	4.55V Micropower Supply Voltage Supervisor ***NEW!***	8-TSSOP	2470.00/2,000		
TLC7725ID	296-3280-5-ND	2.25V Micropower Supply Voltage Supervisor	8-SOIC	2.03	1.62	1.22
TLC7725QD	296-3281-5-ND	2.25V Micropower Supply Voltage Supervisor	8-SOIC	2.15	1.72	1.29
TLC7725QP	296-13360-5-ND	2.25V Micropower Supply Voltage Supervisor	8-Dip	2.15	1.72	1.29
TLC7725QPWR	296-3283-1-ND	2.25V Micropower Supply Voltage Supervisor	8-TSSOP	2.15	1.72	1.29
TLC7725QPWR	296-3283-2-ND	2.25V Micropower Supply Voltage Supervisor	8-TSSOP	2236.00/2,000		
TLC7725IP	296-2611-5-ND	2.25V Micropower Supply Voltage Supervisor	8-Dip	2.03	1.62	1.22
TLC7733ID	296-2612-5-ND	2.93V Micropower Supply Voltage Supervisor	8-SOIC	2.03	1.62	1.22
TLC7733IP	296-3284-5-ND	2.93V Micropower Supply Voltage Supervisor	8-Dip	2.03	1.62	1.22
TLC7733IPWR	296-3285-1-ND	2.93V Micropower Supply Voltage Supervisor	8-TSSOP	2.03	1.62	1.22
TLC7733IPWR	296-3285-2-ND	2.93V Micropower Supply Voltage Supervisor	8-TSSOP	2106.00/2,000		
TLC7733MDREP	296-22418-1-ND	2.93V Micropower Supply Voltage Supervisor ***NEW!***	8-SOIC	2.25	1.80	1.40
TLC7733MDREP	296-22418-2-ND	2.93V Micropower Supply Voltage Supervisor ***NEW!***	8-SOIC	2550.00/2,000		
TLC7733QD	296-3286-5-ND	2.93V Micropower Supply Voltage Supervisor	8-SOIC	2.15	1.72	1.29
TLC7733QP	296-3287-5-ND	2.93V Micropower Supply Voltage Supervisor	8-Dip	2.15	1.72	1.29
TLC7733QPWR	296-3288-1-ND	2.93V Micropower Supply Voltage Supervisor	8-TSSOP	2.15	1.72	1.29
TLC7733QPWR	296-3288-2-ND	2.93V Micropower Supply Voltage Supervisor	8-TSSOP	2236.00/2,000		
TLC7733QPWREP	296-18143-1-ND	2.93V Micropower Volt. Supervisor	8-TSSOP	2.75	2.20	1.71
TLC7733QPWREP	296-18143-2-ND	2.93V Micropower Volt. Supervisor	8-TSSOP	3112.00/2,000		
TPS3103E12DBVR	296-13393-1-ND	1.14V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.35
TPS3103E12DBVR	296-13393-2-ND	1.14V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3456.00/3,000		
TPS3103E15DBVR	296-13394-1-ND	1.43V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.35
TPS3103E15DBVR	296-13394-2-ND	1.43V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3456.00/3,000		
TPS3103H20DBVR	296-13395-1-ND	1.84V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.35
TPS3103H20DBVR	296-13395-2-ND	1.84V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3456.00/3,000		
TPS3103K33DBVR	296-13396-1-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.35
TPS3103K33DBVR	296-13396-2-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3456.00/3,000		
TPS3106E09DBVT	296-13397-1-ND	0.86V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.40
TPS3106E09DBVT	296-13397-2-ND	0.86V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	332.50/250		
TPS3106E16DBVR	296-13398-1-ND	1.52V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.35
TPS3106E16DBVR	296-13398-2-ND	1.52V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3456.00/3,000		
TPS3106K33DBVR	296-13399-1-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.35
TPS3106K33DBVR	296-13399-2-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3456.00/3,000		
TPS3106K33MDBVREP	296-21616-1-ND	3.3V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	5.18	4.14	3.22
TPS3106K33MDBVREP	296-21616-2-ND	3.3V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	8694.00/3,000		
TPS3110E09DBVR	296-13400-1-ND	0.86V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.40
TPS3110E09DBVR	296-13400-2-ND	0.86V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3780.00/3,000		
TPS3110E12DBVR	296-13401-1-ND	1.14V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.40
TPS3110E12DBVR	296-13401-2-ND	1.14V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3780.00/3,000		
TPS3110E15DBVR	296-13402-1-ND	1.43V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.40
TPS3110E15DBVR	296-13402-2-ND	1.43V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3780.00/3,000		
TPS3110K33DBVT	296-13403-1-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.48	1.98	1.54
TPS3110K33DBVT	296-13403-2-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	365.75/250		
TPS3123G15DBVR	296-10890-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3123G15DBVR	296-10890-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3264.00/3,000		
TPS3123G15DBVT	296-3289-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3123G15DBVT	296-3289-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3123J12DBVR	296-10891-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3123J12DBVR	296-10891-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3264.00/3,000		
TPS3123J12DBVT	296-3290-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3123J12DBVT	296-3290-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3123J18DBVR	296-10892-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3123J18DBVR	296-10892-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3264.00/3,000		
TPS3123J18DBVT	296-3291-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3123J18DBVT	296-3291-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3124G15DBVR	296-10893-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3124G15DBVR	296-10893-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3264.00/3,000		
TPS3124G15DBVT	296-3292-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3124G15DBVT	296-3292-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3124J12DBVR	296-10894-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3124J12DBVR	296-10894-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3264.00/3,000		
TPS3124J12DBVT	296-3293-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3124J12DBVT	296-3293-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3124J18DBVR	296-10895-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3124J18DBVR	296-10895-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3264.00/3,000		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS3124J18DBVT	296-3294-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3124J18DBVT	296-3294-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3125G15DBVR	296-10896-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.90	1.52	1.14
TPS3125G15DBVR	296-10896-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2918.40/3,000		
TPS3125G15DBVT	296-2613-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.03	1.62	1.22
TPS3125G15DBVT	296-2613-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	283.50/250		
TPS3125J12DBVR	296-10897-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.90	1.52	1.14
TPS3125J12DBVR	296-10897-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2918.40/3,000		
TPS3125J12DBVT	296-2614-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.03	1.62	1.22
TPS3125J12DBVT	296-2614-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	283.50/250		
TPS3125J18DBVR	296-10898-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.90	1.52	1.14
TPS3125J18DBVR	296-10898-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2918.40/3,000		
TPS3125J18DBVT	296-2615-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.03	1.62	1.22
TPS3125J18DBVT	296-2615-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	283.50/250		
TPS3125L30DBVR	296-10899-1-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.90	1.52	1.14
TPS3125L30DBVR	296-10899-2-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2919.00/3,000		
TPS3125L30DBVT	296-2616-1-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.03	1.62	1.22
TPS3125L30DBVT	296-2616-2-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	283.50/250		
TPS3126E12DBVT	296-10900-1-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3126E12DBVT	296-10900-2-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	297.50/250		
TPS3126E15DBVT	296-10901-1-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3126E15DBVT	296-10901-2-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	297.50/250		
TPS3126E18DBVT	296-10902-1-ND	1.71V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3126E18DBVT	296-10902-2-ND	1.71V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	297.50/250		
TPS3128E12DBVT	296-10903-1-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3128E12DBVT	296-10903-2-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3128E15DBVT	296-10904-1-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3128E15DBVT	296-10904-2-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3128E18DBVT	296-10905-1-ND	1.71V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3128E18DBVT	296-10905-2-ND	1.71V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3305-18D	296-2617-5-ND	Dual 2.93/1.68 Voltage Monitor	8-SOIC	2.25	1.80	1.40
TPS3305-18DGNR	296-3299-1-ND	Dual 3.3/1.8 Voltage Monitor	8-MSOP	2.25	1.80	1.40
TPS3305-18DGNR	296-3299-2-ND	Dual 3.3/1.8 Voltage Monitor	8-MSOP	3150.00/2,500		
TPS3305-25D	296-2618-5-ND	Dual 2.93/2.25 Voltage Monitor	8-SOIC	2.25	1.80	1.40
TPS3305-25DGNR	296-3300-1-ND	Dual 3.3/2.5 Voltage Monitor	8-MSOP	2.25	1.80	1.40
TPS3305-25DGNR	296-3300-2-ND	Dual 3.3/2.5 Voltage Monitor	8-MSOP	3150.00/2,500		
TPS3305-33D	296-2619-5-ND	Dual 4.55/2.93 Voltage Monitor	8-SOIC	2.25	1.80	1.40
TPS3305-33DGNR	296-3301-1-ND	Dual 5/3.3 Voltage Monitor	8-MSOP	2.25	1.80	1.40
TPS3305-33DGNR	296-3301-2-ND	Dual 5/3.3 Voltage Monitor	8-MSOP	3150.00/2,500		
TPS3306-15D	296-3302-5-ND	Dual 3.3/1.5 Voltage Monitor	8-SOIC	2.36	1.89	1.47
TPS3306-15DGK	296-3303-5-ND	Dual 3.3/1.5 Voltage Monitor	8-SOP	2.36	1.89	1.47
TPS3306-15QDRQ1	296-23065-1-ND	Dual 3.3/1.5 Voltage Monitor ***NEW!***	8-SOIC	2.81	2.25	1.75
TPS3306-15QDRQ1	296-23065-2-ND	Dual 3.3/1.5 Voltage Monitor ***NEW!***	8-SOIC	3937.50/2,500		
TPS3306-18D	296-3304-5-ND	Dual 3.3/1.8 Voltage Monitor	8-SOIC	2.36	1.89	1.47
TPS3306-18DGK	296-3305-5-ND	Dual 3.3/1.8 Voltage Monitor	8-SOP	2.36	1.89	1.47
TPS3306-18QDRQ1	296-17848-1-ND	Dual 3.3/1.8 Voltage Monitor	8-SOIC	2.81	2.25	1.75
TPS3306-18QDRQ1	296-17848-2-ND	Dual 3.3/1.8 Voltage Monitor	8-SOIC	3937.50/2,500		
TPS3306-20D	296-3306-5-ND	Dual 3.3/2 Voltage Monitor	8-SOIC	2.36	1.89	1.47
TPS3306-20DGK	296-3307-5-ND	Dual 3.3/2 Voltage Monitor	8-SOP	2.36	1.89	1.47
TPS3306-25D	296-3308-5-ND	Dual 3.3/2.5 Voltage Monitor	8-SOIC	2.36	1.89	1.47
TPS3306-25DGK	296-3309-5-ND	Dual 3.3/2.5 Voltage Monitor	8-SOP	2.36	1.89	1.47
TPS3306-33D	296-3310-5-ND	Dual 5/3.3 Voltage Monitor	8-SOIC	2.36	1.89	1.47
TPS3306-33DGK	296-3311-5-ND	Dual 5/3.3 Voltage Monitor	8-SOP	2.36	1.89	1.47
TPS3306-33QDRQ1	296-18948-1-ND	Dual Processor Supervisory Circuit with Power Fail	8-SOIC	2.81	2.25	1.75
TPS3306-33QDRQ1	296-18948-2-ND	Dual Processor Supervisory Circuit with Power Fail	8-SOIC	3937.50/2,500		
TPS3307-18D	296-2620-5-ND	Triple 2.93/1.68/1.25 Voltage Monitor	8-SOIC	2.36	1.89	1.47
TPS3307-18DGNR	296-3312-1-ND	Triple 3.3/1.8/Adj. Voltage Monitor	8-MSOP	2.36	1.89	1.47
TPS3307-18DGNR	296-3312-2-ND	Triple 3.3/1.8/Adj. Voltage Monitor	8-MSOP	3307.50/2,500		
TPS3307-18QDRQ1	296-15641-1-ND	Triple 3.3/1.8/Adj. Voltage Monitor	8-SOIC	2.81	2.25	1.75
TPS3307-18QDRQ1	296-15641-2-ND	Triple 3.3/1.8/Adj. Voltage Monitor	8-SOIC	3937.50/2,500		
TPS3307-25D	296-2621-5-ND	Triple 2.93/2.25/1.25 Voltage Monitor	8-SOIC	2.36	1.89	1.47
TPS3307-25DGNR	296-3313-1-ND	Triple 3.3/2.5/Adj. Voltage Monitor	8-MSOP	2.36	1.89	1.47
TPS3307-25DGNR	296-3313-2-ND	Triple 3.3/2.5/Adj. Voltage Monitor	8-MSOP	3307.50/2,500		
TPS3307-33D	296-3314-5-ND	Triple 5/3.3/Adj. Voltage Monitor	8-SOIC	2.36	1.89	1.47
TPS3307-33DR	296-3314-1-ND	Triple 5/3.3/Adj. Voltage Monitor	8-SOIC	2.36	1.89	1.47
TPS3307-33DR	296-3314-2-ND	Triple 5/3.3/Adj. Voltage Monitor	8-SOIC	3307.50/2,500		
TPS3307-33DGN	296-3315-5-ND	Triple 5/3.3/Adj. Voltage Monitor	8-MSOP	2.36	1.89	1.47
TPS3307-33DGNR	296-3315-1-ND	Triple 5/3.3/Adj. Voltage Monitor	8-MSOP	2.36	1.89	1.47
TPS3307-33DGNR	296-3315-2-ND	Triple 5/3.3/Adj. Voltage Monitor	8-MSOP	3307.50/2,500		
TPS3307-33MDGNREP	296-21267-1-ND	Triple 5/3.3/Adj. Voltage Monitor	8-MSOP	5.36	4.29	3.62
TPS3307-33MDGNREP	296-21267-2-ND	Triple 5/3.3/Adj. Voltage Monitor	8-MSOP	7482.00/2,000		
TPS3510DR	296-3317-1-ND	3.5V Power Supply Monitor	8-SOIC	1.38	1.10	.83
TPS3510DR	296-3317-2-ND	3.5V Power Supply Monitor	8-SOIC	1462.50/2,500		
TPS3510P	296-3318-5-ND	3.5V Power Supply Monitor	8-Dip	1.35	1.13	.90
TPS3511D	296-15041-5-ND	PC Power Supply Supervisor	8-SOIC	1.35	1.13	.90
TPS3513D	296-13404-5-ND	PC Power Supply Supervisor	14-SOIC	1.75	1.40	1.05
TPS3513N	296-17024-ND	PC Power Supply Supervisor	14-Dip	1.75	1.40	1.05
TPS3514D	296-13513-5-ND	PC Power Supply Supervisor	14-SOIC	1.75	1.40	1.05
TPS3705-30D	296-2622-5-ND	2.63V Supply Monitor	8-SOIC	1.38	1.10	.83
TPS3705-30DGN	296-3316-5-ND	2.63V Supply Monitor	8-MSOP	1.38	1.10	.83
TPS3705-33D	296-2623-5-ND	2.93V Supply Monitor	8-SOIC	1.68	1.34	1.01
TPS3705-33DGNR	296-3319-1-ND	2.93V Supply Monitor	8-MSOP	1.68	1.34	1.01
TPS3705-33DGNR	296-3319-2-ND	2.93V Supply Monitor	8-MSOP	2145.00/2,500		
TPS3705-50D	296-2624-5-ND	4.55V Supply Monitor	8-SOIC	1.68	1.34	1.01
TPS3705-50DGNR	296-3320-1-ND	4.55V Supply Monitor	8-MSOP	1.68	1.34	1.01
TPS3705-50DGNR	296-3320-2-ND	4.55V Supply Monitor	8-MSOP	2145.00/2,500		
TPS3707-25D	296-2625-5-ND	2.25V Supply Monitor	8-SOIC	1.58	1.26	.95
TPS3707-25DGNR	296-3321-1-ND	2.25V Supply Monitor	8-MSOP	1.58	1.26	.95
TPS3707-25DGNR	296-3321-2-ND	2.25V Supply Monitor	8-MSOP	2015.00/2,500		
TPS3707-30D	296-2626-5-ND	2.63V Supply Monitor	8-SOIC	1.58	1.26	.95
TPS3707-30DGN	296-3322-5-ND	2.63V Supply Monitor	8-MSOP	1.58	1.26	.95
TPS3707-33D	296-2627-5-ND	2.93V Supply Monitor	8-SOIC	1.48	1.18	.89
TPS3707-33DGN	296-3323-5-ND	2.93V Supply Monitor	8-MSOP	1.48	1.18	.89
TPS3707-50D	296-2628-5-ND	4.55V Supply Monitor	8-SOIC	1.48	1.18	.89
TPS3707-50DGNR	296-3324-1-ND	4.55V Supply Monitor	8-MSOP	1.48	1.18	.89
TPS3707-50DGNR	296-3324-2-ND	4.55V Supply Monitor	8-MSOP	1887.50/2,500		
TPS3800G27DCKR	296-12382-1-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1.47	1.23	.98
TPS3800G27DCKR	296-12382-2-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1560.00/3,000		
TPS3801-01DCKR	296-12383-1-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1.47	1.23	.98
TPS3801-01DCKR	296-12383-2-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1560.00/3,000		
TPS3801E18DCKR	296-12384-1-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1.47	1.23	.98
TPS3801E18DCKR	296-12384-2-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1560.00/3,000		
TPS3801I50DCKR	296-3325-1-ND	4.55V Supply Monitor	SC70-5	1.47	1.23	.98
TPS3801I50DCKR	296-3325-2-ND	4.55V Supply Monitor	SC70-5	1560.00/3,000		
TPS3801J25DCKR	296-3326-1-ND	2.25V Supply Monitor	SC70-5	1.47	1.23	.98
TPS3801J25DCKR	296-3326-2-ND	2.25V Supply Monitor	SC70-5	1560.00/3,000		
TPS3801K33DCKR	296-3327-1-ND	2.93V Supply Monitor	SC70-5	1.47	1.23	.98
TPS3801K33DCKR	296-3327-2-ND	2.93V Supply Monitor	SC70-5	1560.00/3,000		
TPS3801L30DCKR	296-3328-1-ND	2.64V Supply Monitor	SC70-5	1.47	1.23	.98
TPS3801L30DCKR	296-3328-2-ND	2.64V Supply Monitor	SC70-5	1560.00/3,000		
TPS3801T50DCKR	296-12385-1-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1.47	1.23	.98
TPS3801T50DCKR	296-12385-2-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1560.00/3,000		
TPS3802K33DCKR	296-12386-1-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1.47	1.23	.98
TPS3802K33DCKR	296-12386-2-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1560.00/3,000		
TPS3802L30DCKR	296-13514-1-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1.47	1.23	.98
TPS3802L30DCKR	296-13514-2-ND	Ultra-Small Supply Voltage Supervisor	SC70-5	1560.00/3,000		
TPS3803-01DCKR	296-13405-1-ND	Adj./1.5V Voltage Detector	SC70-5	.80	.60	.45
TPS3803-01DCKR	296-13405-2-ND	Adj./1.5V Voltage Detector	SC70-5	780.00/3,000		
TPS3803-01MDCKREP	296-18151-1-ND	Adj./1.5V Voltage Detector	SC70-5	1.60	1.28	.96
TPS3803-01MDCKREP	296-18151-2-ND	Adj./1.5V Voltage Detector	SC70-5	2457.00/3,000		
TPS3803-01QDCKREP	296-21268-1-ND	Adj./1.5V Voltage Detector	SC70-5	1.02	.85	.68
TPS3803-01QDCKREP	296-21268-2-ND	Adj./1.5V Voltage Detector	SC70-5	904.00/2,000		
TPS3803-01QDCKRQ1	296-16960-1-ND	Adj./1.5V Voltage Detector	SC70-5	.87	.73	.58
TPS3803-01QDCKRQ1	296-16960-2-ND	Adj./1.5V Voltage Detector	SC70-5	936.00/3,000		
TPS3803G15DCKR	296-13406-1-ND	Adj./1.5V Voltage Detector	SC70-5	.80	.60	.45
TPS3803G15DCKR	296-13406-2-ND	Adj./1.5V Voltage Detector	SC70-5	780.00/3,000		
TPS3803G15MDCKREP	296-19525-1-ND	Adj./1.5V Voltage Detector	SC70-5	1.60	1.28	.96
TPS3803G15MDCKREP	296-19525-2-ND	Adj./1.5V Voltage Detector	SC70-5	2457.00/3,000		
TPS3803G15QDCKREP	296-19526-1-ND	Adj./1.5V Voltage Detector	SC70-5	1.02	.85	.68
TPS3803G15QDCKREP	296-19526-2-ND	Adj./1.5V Voltage Detector	SC70-5	1326.00/3,000		
TPS3803G15QDCKRQ1	296-16961-1-ND	Adj./1.5V Voltage Detector	SC70-5	.87	.73	.58
TPS3803G15QDCKRQ1	296-16961-2-ND	Adj./1.5V Voltage Detector	SC70-5	936.00/3,000		
TPS3805H33DCKR	296-13407-1-ND	Dual, Adj./3.3V Voltage Detector	SC70-5	.87	.73	.58
TPS3805H33DCKR	296-13407-2-ND	Dual, Adj./3.3V Voltage Detector	SC70-5	1131.00/3,000		
TPS3805H33QDCKRQ1	296-16962-1-ND	Dual, Adj./3.3V Voltage Detector	SC70-5	1.02	.85	.68
TPS3805H33QDCKRQ1	296-16962-2-ND	Dual, Adj./3.3V Voltage Detector	SC70-5	1326.00/3,000		
TPS3806I33DBVR	296-12011-1-ND	Dual Voltage Detector with Adjustable Hysteresis	SOT-23-6	1.50	1.20	.90
TPS3806I33DBVR	296-12011-2-ND	Dual Voltage Detector with Adjustable Hysteresis	SOT-23-6	1755.00/3,000		
TPS3806J20DBVR	296-12012-1-ND	Dual Voltage Detector with Adjustable Hysteresis	SOT-23-6	1.50	1.20	.90
TPS3806J20DBVR	296-12012-2-ND	Dual Voltage Detector with Adjustable Hysteresis	SOT-23-6	1755.00/3,000		
TPS3807A30DCKT	296-18602-1-ND	3V, Low Quiescent Current, Dual Channel Supervisory Circuit	SC70-5	2.36	1.89	1.47
TPS3807A30DCKT	296-18602-2-ND	3V, Low Quiescent Current, Dual Channel Supervisory Circuit	SC70-5	349.25/250		
TPS3808G01DBVR	296-17188-1-ND	Adj., Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G01DBVR	296-17188-2-ND	Adj., Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G09DBVR	296-17189-1-ND	0.9V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G09DBVR	296-17189-2-ND	0.9V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G12DBVR	296-17190-1-ND	1.2V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G12DBVR	296-17190-2-ND	1.2V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G12DRVT	296-19294-1-ND	1.2V Voltage Supervisor	6-SON	2.38	1.90	1.43
TPS3808G12DRVT	296-19294-2-ND	1.2V Voltage Supervisor	6-SON	332.50/250		
TPS3808G12QDBVRQ1	296-23326-1-ND	1.2V Prog. Delay Supervisor ***NEW!***	SOT-23-6	2.13	1.70	1.28
TPS3808G12QDBVRQ1	296-23326-2-ND	1.2V Prog. Delay Supervisor ***NEW!***	SOT-23-6	3264.00/3,000		
TPS3808G15DBVR	296-17191-1-ND	1.5V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G15DBVR	296-17191-2-ND	1.5V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G15DRVR	296-19708-1-ND	1.5V Voltage Supervisor	6-SON	2.13	1.70	1.28
TPS3808G15DRVR	296-19708-2-ND	1.5V Voltage Supervisor	6-SON	3264.00/3,000		
TPS3808G18DBVR	296-17192-1-ND	1.8V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G18DBVR	296-17192-2-ND	1.8V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G25DBVR	296-17193-1-ND	2.5V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G25DBVR	296-17193-2-ND	2.5V Voltage Supervisor	SOT-23	2688.00/3,000		

(Continued)

POWER SUPPLY PRODUCTS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS3808G25DRVR	296-21642-1-ND	2.5V Voltage Supervisor	6-SON	2.13	1.70	1.28
TPS3808G25DRVR	296-21642-2-ND	2.5V Voltage Supervisor	6-SON	3264.00/3,000		
TPS3808G30DBVR	296-17194-1-ND	3.0V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G30DBVR	296-17194-2-ND	3.0V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G30DRVR	296-23103-1-ND	3.0V Voltage Supervisor ***NEW!***	6-SON	2.13	1.70	1.28
TPS3808G30DRVR	296-23103-2-ND	3.0V Voltage Supervisor ***NEW!***	6-SON	3264.00/3,000		
TPS3808G30QDBVRQ1	296-23327-1-ND	3.0V Prog. Delay Supervisor ***NEW!***	SOT-23-6	2.13	1.70	1.28
TPS3808G30QDBVRQ1	296-23327-2-ND	3.0V Prog. Delay Supervisor ***NEW!***	SOT-23-6	3264.00/3,000		
TPS3808G33DBVR	296-17195-1-ND	3.3V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G33DBVR	296-17195-2-ND	3.3V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G33QDBVRQ1	296-22676-1-ND	3.3V Voltage Supervisor ***NEW!***	SOT-23-6	2.13	1.70	1.28
TPS3808G33QDBVRQ1	296-22676-2-ND	3.3V Voltage Supervisor ***NEW!***	SOT-23-6	3264.00/3,000		
TPS3808G50DBVR	296-17196-1-ND	5.0V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G50DBVR	296-17196-2-ND	5.0V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G50QDBVRQ1	296-23126-1-ND	5.0V Voltage Supervisor ***NEW!***	SOT-23-6	2.13	1.70	1.28
TPS3808G50QDBVRQ1	296-23126-2-ND	5.0V Voltage Supervisor ***NEW!***	SOT-23-6	3264.00/3,000		
TPS3808G125DBVR	296-21347-1-ND	1.25V Voltage Supervisor	SOT-23-6	1.75	1.40	1.05
TPS3808G125DBVR	296-21347-2-ND	1.25V Voltage Supervisor	SOT-23-6	1820.00/2,000		
TPS3809I50DBVR	296-10914-1-ND	4.55V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809I50DBVR	296-10914-2-ND	4.55V Supply Voltage Supervisor	SOT-23	819.00/3,000		
TPS3809I50DBVT	296-2629-1-ND	4.55V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809I50DBVT	296-2629-2-ND	4.55V Supply Voltage Supervisor	SOT-23	99.50/250		
TPS3809I50MDBVREP	296-21522-1-ND	4.55V Supply Voltage Supervisor	SOT-23	1.60	1.28	.96
TPS3809I50MDBVREP	296-21522-2-ND	4.55V Supply Voltage Supervisor	SOT-23	2457.00/3,000		
TPS3809I50QDBVRQ1	296-15642-1-ND	4.55V Supply Voltage Supervisor	SOT-23	.87	.73	.58
TPS3809I50QDBVRQ1	296-15642-2-ND	4.55V Supply Voltage Supervisor	SOT-23	936.00/3,000		
TPS3809J25DBVR	296-10915-1-ND	2.25V Supply Voltage Supervisor	SOT-23	.76	.57	.43
TPS3809J25DBVR	296-10915-2-ND	2.25V Supply Voltage Supervisor	SOT-23	741.00/3,000		
TPS3809J25DBVT	296-2630-1-ND	2.25V Supply Voltage Supervisor	SOT-23	.84	.63	.48
TPS3809J25DBVT	296-2630-2-ND	2.25V Supply Voltage Supervisor	SOT-23	87.25/250		
TPS3809J25QDBVRQ1	296-15643-1-ND	2.25V Supply Voltage Supervisor	SOT-23	.92	.69	.52
TPS3809J25QDBVRQ1	296-15643-2-ND	2.25V Supply Voltage Supervisor	SOT-23	897.00/3,000		
TPS3809K33DBVR	296-10916-1-ND	2.93V Supply Voltage Supervisor	SOT-23	.72	.54	.41
TPS3809K33DBVR	296-10916-2-ND	2.93V Supply Voltage Supervisor	SOT-23	702.00/3,000		
TPS3809K33DBVT	296-2631-1-ND	2.93V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809K33DBVT	296-2631-2-ND	2.93V Supply Voltage Supervisor	SOT-23	78.75/250		
TPS3809K33QDBVRQ1	296-15644-1-ND	2.93V Supply Voltage Supervisor	SOT-23	.84	.63	.48
TPS3809K33QDBVRQ1	296-15644-2-ND	2.93V Supply Voltage Supervisor	SOT-23	819.00/3,000		
TPS3809L30DBVR	296-10917-1-ND	2.64V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809L30DBVR	296-10917-2-ND	2.64V Supply Voltage Supervisor	SOT-23	819.00/3,000		
TPS3809L30DBVT	296-2632-1-ND	2.64V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809L30DBVT	296-2632-2-ND	2.64V Supply Voltage Supervisor	SOT-23	99.50/250		
TPS3809L30QDBVRQ1	296-15645-1-ND	2.64V Supply Voltage Supervisor	SOT-23	.87	.73	.58
TPS3809L30QDBVRQ1	296-15645-2-ND	2.64V Supply Voltage Supervisor	SOT-23	936.00/3,000		
TPS3813I50DBVT	296-10918-1-ND	5V Supervisor with Programmable Watchdog Window	SOT-23-6	2.25	1.80	1.40
TPS3813I50DBVT	296-10918-2-ND	5V Supervisor with Programmable Watchdog Window	SOT-23-6	332.50/250		
TPS3813J25DBVT	296-10919-1-ND	2.5V Supervisor with Programmable Watchdog Window	SOT-23-6	2.25	1.80	1.40
TPS3813J25DBVT	296-10919-2-ND	2.5V Supervisor with Programmable Watchdog Window	SOT-23-6	332.50/250		
TPS3813K33DBVT	296-10920-1-ND	3.3V Supervisor with Programmable Watchdog Window	SOT-23-6	2.25	1.80	1.40
TPS3813K33DBVT	296-10920-2-ND	3.3V Supervisor with Programmable Watchdog Window	SOT-23-6	332.50/250		
TPS3813L30DBVT	296-10921-1-ND	3.0V Supervisor with Programmable Watchdog Window	SOT-23-6	2.25	1.80	1.40
TPS3813L30DBVT	296-10921-2-ND	3.0V Supervisor with Programmable Watchdog Window	SOT-23-6	332.50/250		
TPS3820-33DBVT	296-2633-1-ND	2.93V Supply Monitor	SOT-23-5	1.48	1.18	.89
TPS3820-33DBVT	296-2633-2-ND	2.93V Supply Monitor	SOT-23-5	172.50/250		
TPS3820-33QDBVRQ1	296-15646-1-ND	2.93V Supply Monitor	SOT-23-5	1.25	1.00	.75
TPS3820-33QDBVRQ1	296-15646-2-ND	2.93V Supply Monitor	SOT-23-5	1920.00/3,000		
TPS3820-50DBVRQ1G4	296-19885-1-ND	4.55V Supply Monitor	SOT-23-5	1.25	1.00	.75
TPS3820-50DBVRQ1G4	296-19885-2-ND	4.55V Supply Monitor	SOT-23-5	1920.00/3,000		
TPS3820-50DBVT	296-2635-1-ND	4.55V Supply Monitor	SOT-23-5	1.38	1.15	.92
TPS3820-50DBVT	296-2635-2-ND	4.55V Supply Monitor	SOT-23-5	172.50/250		
TPS3820-50QDBVRQ1	296-15647-1-ND	4.55V Supply Monitor	SOT-23-5	1.25	1.00	.75
TPS3820-50QDBVRQ1	296-15647-2-ND	4.55V Supply Monitor	SOT-23-5	1920.00/3,000		
TPS3823-25DBVR	296-3333-1-ND	2.25V Supply Monitor	SOT-23-5	1.25	1.00	.75
TPS3823-25DBVR	296-3333-2-ND	2.25V Supply Monitor	SOT-23-5	1920.00/3,000		
TPS3823-25QDBVRQ1	296-15648-1-ND	2.25V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3823-25QDBVRQ1	296-15648-2-ND	2.25V Supply Monitor	SOT-23-5	2457.00/3,000		
TPS3823-30DBVR	296-3334-1-ND	2.63V Supply Monitor	SOT-23-5	1.23	1.03	.82
TPS3823-30DBVR	296-3334-2-ND	2.63V Supply Monitor	SOT-23-5	1599.00/3,000		
TPS3823-30QDBVRQ1	296-15649-1-ND	2.63V Supply Monitor	SOT-23-5	1.25	1.00	.75
TPS3823-30QDBVRQ1	296-15649-2-ND	2.63V Supply Monitor	SOT-23-5	1920.00/3,000		
TPS3823-33DBVR	296-1357-1-ND	2.93V Supply Monitor	SOT-23-5	1.14	.95	.76
TPS3823-33DBVR	296-1357-2-ND	2.93V Supply Monitor	SOT-23-5	1482.00/3,000		
TPS3823-33QDBVRQ1	296-15650-1-ND	2.93V Supply Monitor	SOT-23-5	1.38	1.15	.92
TPS3823-33QDBVRQ1	296-15650-2-ND	2.93V Supply Monitor	SOT-23-5	1794.00/3,000		
TPS3823-50DBVR	296-3335-1-ND	4.55V Supply Monitor	SOT-23-5	1.26	1.05	.84
TPS3823-50DBVR	296-3335-2-ND	4.55V Supply Monitor	SOT-23-5	1638.00/3,000		
TPS3823-50DBVT	296-10922-1-ND	4.55V Supply Monitor	SOT-23-5	1.38	1.15	.92
TPS3823-50DBVT	296-10922-2-ND	4.55V Supply Monitor	SOT-23-5	172.50/250		
TPS3823-50QDBVRQ1	296-15651-1-ND	4.55V Supply Monitor	SOT-23-5	1.25	1.00	.75
TPS3823-50QDBVRQ1	296-15651-2-ND	4.55V Supply Monitor	SOT-23-5	1920.00/3,000		
TPS3824-25DBVR	296-3336-1-ND	2.25V Supply Monitor	SOT-23-5	1.38	1.15	.92
TPS3824-25DBVR	296-3336-2-ND	2.25V Supply Monitor	SOT-23-5	1794.00/3,000		
TPS3824-25QDBVRQ1	296-15652-1-ND	2.25V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3824-25QDBVRQ1	296-15652-2-ND	2.25V Supply Monitor	SOT-23-5	2112.00/3,000		
TPS3824-30DBVR	296-3337-1-ND	2.63V Supply Monitor	SOT-23-5	1.38	1.15	.92
TPS3824-30DBVR	296-3337-2-ND	2.63V Supply Monitor	SOT-23-5	1794.00/3,000		
TPS3824-30QDBVRQ1	296-15653-1-ND	2.63V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3824-30QDBVRQ1	296-15653-2-ND	2.63V Supply Monitor	SOT-23-5	2112.00/3,000		
TPS3824-33DBVR	296-3338-1-ND	2.93V Supply Monitor	SOT-23-5	1.20	1.00	.80
TPS3824-33DBVR	296-3338-2-ND	2.93V Supply Monitor	SOT-23-5	1560.00/3,000		
TPS3824-33QDBVRQ1	296-15654-1-ND	2.93V Supply Monitor	SOT-23-5	1.25	1.00	.75
TPS3824-33QDBVRQ1	296-15654-2-ND	2.93V Supply Monitor	SOT-23-5	1920.00/3,000		
TPS3824-50DBVR	296-1358-1-ND	4.55V Supply Monitor	SOT-23-5	1.38	1.15	.92
TPS3824-50DBVR	296-1358-2-ND	4.55V Supply Monitor	SOT-23-5	1794.00/3,000		
TPS3824-50QDBVRQ1	296-15655-1-ND	4.55V Supply Monitor	SOT-23-5	1.25	1.00	.75
TPS3824-50QDBVRQ1	296-15655-2-ND	4.55V Supply Monitor	SOT-23-5	1920.00/3,000		
TPS3825-33DBVT	296-2636-1-ND	2.93V Supply Monitor	SOT-23-5	1.65	1.38	1.10
TPS3825-33DBVT	296-2636-2-ND	2.93V Supply Monitor	SOT-23-5	175.00/250		
TPS3825-33QDBVRQ1	296-15656-1-ND	2.93V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3825-33QDBVRQ1	296-15656-2-ND	2.93V Supply Monitor	SOT-23-5	2145.00/3,000		
TPS3825-50DBVT	296-2637-1-ND	4.55V Supply Monitor	SOT-23-5	1.65	1.38	1.10
TPS3825-50DBVT	296-2637-2-ND	4.55V Supply Monitor	SOT-23-5	157.50/250		
TPS3825-50QDBVRQ1	296-15657-1-ND	4.55V Supply Monitor	SOT-23-5	1.38	1.15	.92
TPS3825-50QDBVRQ1	296-15657-2-ND	4.55V Supply Monitor	SOT-23-5	1794.00/3,000		
TPS3828-33DBVT	296-2638-1-ND	2.93V Supply Monitor	SOT-23-5	1.48	1.18	.89
TPS3828-33DBVT	296-2638-2-ND	2.93V Supply Monitor	SOT-23-5	172.50/250		
TPS3828-33QDBVRQ1	296-15658-1-ND	2.93V Supply Monitor	SOT-23-5	1.25	1.00	.75
TPS3828-33QDBVRQ1	296-15658-2-ND	2.93V Supply Monitor	SOT-23-5	1920.00/3,000		
TPS3828-50DBVT	296-2639-1-ND	4.55V Supply Monitor	SOT-23-5	1.48	1.18	.89
TPS3828-50DBVT	296-2639-2-ND	4.55V Supply Monitor	SOT-23-5	192.50/250		
TPS3828-50QDBVRQ1	296-15659-1-ND	4.55V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3828-50QDBVRQ1	296-15659-2-ND	4.55V Supply Monitor	SOT-23-5	2112.00/3,000		
TPS3836E18DBVT	296-3339-1-ND	1.71V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3836E18DBVT	296-3339-2-ND	1.71V Low Current Monitor	SOT-23-5	332.50/250		
TPS3836E18QDBVRQ1	296-15660-1-ND	1.71V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3836E18QDBVRQ1	296-15660-2-ND	1.71V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3836H30DBVT	296-13003-1-ND	2.79V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3836H30DBVT	296-13003-2-ND	2.79V Low Current Monitor	SOT-23-5	332.50/250		
TPS3836H30QDBVRQ1	296-15661-1-ND	2.79V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3836H30QDBVRQ1	296-15661-2-ND	2.79V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3836J25DBVT	296-3340-1-ND	2.25V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3836J25DBVT	296-3340-2-ND	2.25V Low Current Monitor	SOT-23-5	332.50/250		
TPS3836J25QDBVRQ1	296-15662-1-ND	2.25V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3836J25QDBVRQ1	296-15662-2-ND	2.25V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3836K33DBVT	296-3341-1-ND	2.93V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3836K33DBVT	296-3341-2-ND	2.93V Low Current Monitor	SOT-23-5	332.50/250		
TPS3836K33QDBVRQ1	296-15663-1-ND	2.93V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3836K33QDBVRQ1	296-15663-2-ND	2.93V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3836L30DBVT	296-3342-1-ND	2.64V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3836L30DBVT	296-3342-2-ND	2.64V Low Current Monitor	SOT-23-5	332.50/250		
TPS3836L30MDBVREP	296-21269-1-ND	2.64V Low Current Monitor	SOT-23-5	4.88	3.91	3.04
TPS3836L30MDBVREP	296-21269-2-ND	2.64V Low Current Monitor	SOT-23-5	8202.00/3,000		
TPS3836L30QDBVRQ1	296-15664-1-ND	2.64V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3836L30QDBVRQ1	296-15664-2-ND	2.64V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3837E18DBVT	296-3343-1-ND	1.71V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3837E18DBVT	296-3343-2-ND	1.71V Low Current Monitor	SOT-23-5	332.50/250		
TPS3837E18QDBVRQ1	296-15665-1-ND	1.71V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3837E18QDBVRQ1	296-15665-2-ND	1.71V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3837J25DBVT	296-3344-1-ND	2.25V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3837J25DBVT	296-3344-2-ND	2.25V Low Current Monitor	SOT-23-5	332.50/250		
TPS3837J25QDBVRQ1	296-15666-1-ND	2.25V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3837J25QDBVRQ1	296-15666-2-ND	2.25V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3837K33DBVT	296-3345-1-ND	2.93V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3837K33DBVT	296-3345-2-ND	2.93V Low Current Monitor	SOT-23-5	332.50/250		
TPS3837K33MDBVREP	296-21270-1-ND	2.93V Low Current Monitor	SOT-23-5	4.88	3.91	3.04
TPS3837K33MDBVREP	296-21270-2-ND	2.93V Low Current Monitor	SOT-23-5	8202.00/3,000		
TPS3837K33QDBVREP	296-20786-1-ND	2.93V Low Current Monitor	SOT-23-5	2.61	2.09	1.63
TPS3837K33QDBVREP	296-20786-2-ND	2.93V Low Current Monitor	SOT-23-5	4386.00/3,000		
TPS3837K33QDBVRQ1	296-15667-1-ND	2.93V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3837K33QDBVRQ1	296-15667-2-ND	2.93V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3837L30DBVT	296-3346-1-ND	2.64V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3837L30DBVT	296-3346-2-ND	2.64V Low Current Monitor	SOT-23-5	332.50/250		
TPS3837L30QDBVRQ1	296-15668-1-ND	2.64V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3837L30QDBVRQ1	296-15668-2-ND	2.64V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3838E18DBVT	296-3347-1-ND	1.71V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3838E18DBVT	296-3347-2-ND	1.71V Low Current Monitor	SOT-23-5	332.50/250		
TPS3838E18QDBVRQ1	296-15669-1-ND	1.71V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3838E18QDBVRQ1	296-15669-2-ND	1.71V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3838J25DBVT	296-3348-1-ND	2.25V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3838J25DBVT	296-3348-2-ND	2.25V Low Current Monitor	SOT-23-5	332.50/250		
TPS3838K33DBVT	296-3349-1-ND	2.93V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3838K33DBVT	296-3349-2-ND	2.93V Low Current Monitor	SOT-23-5	332.50/250		
TPS3838K33DRVR	296-22631-1-ND	2.93V Low Current Monitor ***NEW!***	6-SON	2.38	1.90	1.43
TPS3838K33DRVR	296-22631-2-ND	2.93V Low Current Monitor ***NEW!***	6-SON	3648.00/3,000		
TPS3838K33QDBVRQ1	296-15670-1-ND	2.93V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3838K33QDBVRQ1	296-15670-2-ND	2.93V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3838L30DBVT	296-3350-1-ND	2.64V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3838L30DBVT	296-3350-2-ND	2.64V Low Current Monitor	SOT-23-5	332.50/250		
TPS3838L30QDBVRQ1	296-15671-1-ND	2.64V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3838L30QDBVRQ1	296-15671-2-ND	2.64V Low Current Monitor	SOT-23-5	3900.00/3,000		
TXB0101DCKR	296-22861-1-ND	1-Bit Bidirectional Voltage-Level Translator ***NEW!***	SC70-6	.80	.60	.45
TXB0101DCUR	296-22861-2-ND	1-Bit Bidirectional Voltage-Level Translator ***NEW!***	SC70-6	780.00/3,000		
TXB0101YZPR	296-21927-1-ND	1-Bit Bidirectional Voltage Level Translator	6-WCSP	.88	.66	.50
TXB0101YZPR	296-21927-2-ND	1-Bit Bidirectional Voltage Level Translator	6-WCSP	858.00/3,000		
TXB0102DCKR	296-22862-1-ND	2-Bit Bidirectional Voltage-Level Translator ***NEW!***	8-US8	1.11	.93	.74
TXB0102DCKR	296-22862-2-ND	2-Bit Bidirectional Voltage-Level Translator ***NEW!***	8-US8	1443.00/3,000		
TXB0102YZPR	296-21961-1-ND	2-Bit Bidirectional Voltage Level Translator	8-WCSP	1.20	1.00	.80
TXB0102YZPR	296-21961-2-ND	2-Bit Bidirectional Voltage Level Translator	8-WCSP	1560.00/3,000		
TXB0104DR	296-21928-1-ND	4-Bit Bidirectional Voltage Level Translator	14-SOIC	1.38	1.10	.83
TXB0104DR	296-21928-2-ND	4-Bit Bidirectional Voltage Level Translator	14-SOIC	1760.00/2,500		
TXB0104PWR	296-21929-1-ND	4-Bit Bidirectional Voltage Level Translator	14-TSSOP	1.38	1.10	.83
TXB0104PWR	296-21929-2-ND	4-Bit Bidirectional Voltage Level Translator	14-TSSOP	1430.00/2,000		
TXB0104RGYR	296-21930-1-ND	4-Bit Bidirectional Voltage Level Translator	14-QFN	1.38	1.10	.83
TXB0104RGYR	296-21930-2-ND	4-Bit Bidirectional Voltage Level Translator	14-QFN	715.00/1,000		
TXB0104ZXUR	296-20795-1-ND	4-Bit Bidirectional Voltage Level Translator	12-BGA	1.38	1.10	.83

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TXB0104ZXUR	296-20795-2-ND	4-Bit Bidirectional Voltage Level Translator	12-BGA	1760.00/2,500		
TXB0108ZXYR	296-22000-1-ND	8-Bit Bidirectional Voltage Level Translator	20-BGA	1.88	1.50	1.13
TXB0108ZXYR	296-22000-2-ND	8-Bit Bidirectional Voltage Level Translator	20-BGA	2400.00/2,500		
TXS0101DBVR	296-22863-1-ND	1-Bit Bidirectional Voltage-Level Translator ***NEW!***	SOT-23-6	.80	.60	.45
TXS0101DBVR	296-22863-2-ND	1-Bit Bidirectional Voltage-Level Translator ***NEW!***	SOT-23-6	780.00/3,000		
TXS0101DCKR	296-22864-1-ND	1-Bit Bidirectional Voltage-Level Translator ***NEW!***	SC70-6	.80	.60	.45
TXS0101DCKR	296-22864-2-ND	1-Bit Bidirectional Voltage-Level Translator ***NEW!***	SC70-6	780.00/3,000		
TXS0101DRLR	296-22865-1-ND	1-Bit Bidirectional Voltage-Level Translator ***NEW!***	6-SOT	.80	.60	.45
TXS0101DRLR	296-22865-2-ND	1-Bit Bidirectional Voltage-Level Translator ***NEW!***	6-SOT	1040.00/4,000		
TXS0102DCTR	296-21978-1-ND	2-Bit Bidirectional Voltage Level Translator	8-SSOP	.93	.78	.62
TXS0102DCTR	296-21978-2-ND	2-Bit Bidirectional Voltage Level Translator	8-SSOP	1209.00/3,000		
TXS0102DCUR	296-21931-1-ND	2-Bit Bidirectional Voltage Level Translator	8-US8	.93	.78	.62
TXS0102DCUR	296-21931-2-ND	2-Bit Bidirectional Voltage Level Translator	8-US8	1209.00/3,000		
TXS0102YZPR	296-21932-1-ND	2-Bit Bidirectional Voltage Level Translator	8-WCSP	1.05	.88	.70
TXS0102YZPR	296-21932-2-ND	2-Bit Bidirectional Voltage Level Translator	8-WCSP	1365.00/3,000		
TXS0104EDR	296-20696-1-ND	4-Bit Bidirectional Voltage Level Translator	14-SOIC	1.48	1.18	.89
TXS0104EDR	296-20696-2-ND	4-Bit Bidirectional Voltage Level Translator	14-SOIC	1887.50/2,500		
TXS0104EPWR	296-20697-1-ND	4-Bit Bidirectional Voltage Level Translator	14-TSSOP	1.48	1.18	.89
TXS0104EPWR	296-20697-2-ND	4-Bit Bidirectional Voltage Level Translator	14-TSSOP	1534.00/2,000		
TXS0104ERGYR	296-20698-1-ND	4-Bit Bidirectional Voltage Level Translator	14-QFN	1.60	1.28	.96
TXS0104ERGYR	296-20698-2-ND	4-Bit Bidirectional Voltage Level Translator	14-QFN	832.00/1,000		
TXS0104EYZTR	296-22001-1-ND	4-Bit Bidirectional Voltage Level Translator	12-DSBGA	1.60	1.28	.96
TXS0104EYZTR	296-22001-2-ND	4-Bit Bidirectional Voltage Level Translator	12-DSBGA	2457.00/3,000		
TXS0104EZXUR	296-20699-1-ND	4-Bit Bidirectional Voltage Level Translator	12-BGA	1.60	1.28	.96
TXS0104EZXUR	296-20699-2-ND	4-Bit Bidirectional Voltage Level Translator	12-BGA	2047.50/2,500		
TXS0108EPWR	296-23011-1-ND	8-Bit Bidirectional Voltage-Level Translator ***NEW!***	20-TSSOP	1.88	1.50	1.13
TXS0108EPWR	296-23011-2-ND	8-Bit Bidirectional Voltage-Level Translator ***NEW!***	20-TSSOP	1950.00/2,000		
TXS03121DRLR	296-22866-1-ND	Comparator with Output Voltage-Level Translation ***NEW!***	6-SOT	.90	.75	.60
TXS03121DRLR	296-22866-2-ND	Comparator with Output Voltage-Level Translation ***NEW!***	6-SOT	1560.00/4,000		
UC2543DW	296-3355-5-ND	2.5V Power Supply Monitor	16-SOIC	5.42	4.34	3.66
UC2543N	296-3356-5-ND	2.5V Power Supply Monitor	16-Dip	5.42	4.34	3.66
UC2903DW	296-2640-5-ND	Quad Voltage Supply Monitor	18-SOIC	5.51	4.41	3.43
UC3543DW	296-3357-5-ND	2.5V Power Supply Monitor	16-SOIC	5.36	4.29	3.34
UC3543N	296-3358-5-ND	2.5V Power Supply Monitor	16-Dip	5.36	4.29	3.34
UC3544N	296-3359-5-ND	2.5V Power Supply Monitor	18-Dip	3.53	2.83	2.20
UC3903DW	296-2642-5-ND	Quad Voltage Supply Monitor	18-SOIC	4.73	3.78	2.94
UC3910D	296-2644-5-ND	4-Bit DAC and Voltage Monitor	16-SOIC	5.70	4.56	3.85
UC3910N	296-11346-5-ND	4-Bit DAC and Voltage Monitor	16-Dip	5.70	4.56	3.85
UC39432D	296-11350-5-ND	Precision Analog Controller	8-SOIC	5.51	4.41	3.43
UC39432N	296-11351-5-ND	Precision Analog Controller	8-Dip	5.51	4.41	3.43
UCC2946D	296-2645-5-ND	Microprocessor Supervisor with Watchdog Timer	8-SOIC	3.15	2.52	1.96
UCC2946TPWRQ1	296-23028-1-ND	Microprocessor Supervisor with Watchdog Timer ***NEW!***	8-TSSOP	3.60	2.88	2.24
UCC2946TPWRQ1	296-23028-2-ND	Microprocessor Supervisor with Watchdog Timer ***NEW!***	8-TSSOP	4080.00/2,000		
UCC3946D	296-2646-5-ND	Microprocessor Supervisor with Watchdog Timer	8-SOIC	3.04	2.43	1.89
UCC3946N	296-11547-5-ND	Microprocessor Supervisor with Watchdog Timer	8-Dip	3.04	2.43	1.89

MOSFET / MOSFET Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN75372D	296-3360-5-ND	Dual MOSFET Driver	8-SOIC	2.25	1.80	1.35
SN75372DR	296-14958-1-ND	Dual MOSFET Driver	8-SOIC	2.25	1.80	1.35
SN75372DR	296-14958-2-ND	Dual MOSFET Driver	8-SOIC	2880.00/2,500		
SN75372P	296-3361-5-ND	Dual MOSFET Driver	8-Dip	2.25	1.80	1.35
SN75374D	296-3362-5-ND	Quad MOSFET Driver	16-SOIC	2.48	1.98	1.54
TPS1100D	296-3379-5-ND	P-Channel MOSFET, Rise Time 10nS	8-SOIC	1.41	1.18	.94
TPS1100PWR	296-13383-1-ND	Single P-Channel Enhancement Mode MOSFETs	8-TSSOP	1.41	1.18	.94
TPS1100PWR	296-13383-2-ND	Single P-Channel Enhancement Mode MOSFETs	8-TSSOP	1250.00/2,000		
TPS1101D	296-3381-5-ND	P-Channel MOSFET, Rise Time 5.5nS	8-SOIC	1.88	1.50	1.13
TPS1101PWR	296-13384-1-ND	Single P-Channel Enhancement Mode MOSFETs	16-TSSOP	1.88	1.50	1.13
TPS1101PWR	296-13384-2-ND	Single P-Channel Enhancement Mode MOSFETs	16-TSSOP	1950.00/2,000		
TPS1120D	296-1352-5-ND	Dual P-Channel MOSFET	8-SOIC	1.75	1.40	1.05
TPS1120DR	296-1352-1-ND	Dual P-Channel MOSFET	8-SOIC	1.75	1.40	1.05
TPS1120DR	296-1352-2-ND	Dual P-Channel MOSFET	8-SOIC	2240.00/2,500		
TPS2811D	296-2385-5-ND	Dual 2A Invert MOSFET Driver	8-SOIC	2.15	1.72	1.29
TPS2811P	296-3363-5-ND	Dual 2A High Speed Invert MOSFET Driver	8-Dip	2.15	1.72	1.29
TPS2811PW	296-15640-5-ND	Dual 2A High Speed Invert MOSFET Driver	8-TSSOP	2.15	1.72	1.29
TPS2812D	296-3364-5-ND	Dual 2A High Speed Non-Invert FET Driver	8-SOIC	1.38	1.10	.83
TPS2812P	296-3365-5-ND	Dual 2A High Speed Non-Invert FET Driver	8-Dip	1.38	1.10	.83
TPS2812PWR	296-15139-1-ND	Dual 2A High Speed Non-Invert FET Driver	8-TSSOP	1.38	1.10	.83
TPS2812PWR	296-15139-2-ND	Dual 2A High Speed Non-Invert FET Driver	8-TSSOP	1430.00/2,000		
TPS2813D	296-1356-5-ND	Dual 2A High Speed Complementary MOSFET Driver	8-SOIC	2.00	1.60	1.20
TPS2813DR	296-1356-1-ND	Dual 2A Complementary MOSFET Driver	8-SOIC	2.00	1.60	1.20
TPS2813DR	296-1356-2-ND	Dual 2A Complementary MOSFET Driver	8-SOIC	2560.00/2,500		
TPS2813P	296-2386-5-ND	Dual 2A Complementary MOSFET Driver	8-Dip	2.00	1.60	1.20
TPS2813PWR	296-3367-1-ND	Dual 2A Complementary MOSFET Driver	8-TSSOP	2.00	1.60	1.20
TPS2813PWR	296-3367-2-ND	Dual 2A Complementary MOSFET Driver	8-TSSOP	2080.00/2,000		
TPS2814D	296-3368-5-ND	Dual 2A High Speed MOSFET Driver	8-SOIC	1.25	1.00	.75
TPS2814P	296-2387-5-ND	Dual 2A MOSFET Driver	8-Dip	1.25	1.00	.75
TPS2814PWR	296-3369-1-ND	Dual 2A MOSFET Driver	8-TSSOP	1.25	1.00	.75
TPS2814PWR	296-3369-2-ND	Dual 2A MOSFET Driver	8-TSSOP	1300.00/2,000		
TPS2815D	296-2388-5-ND	Dual 2A NAND MOSFET Driver	8-SOIC	1.48	1.18	.89
TPS2815P	296-3370-5-ND	Dual 2A HS NAND MOSFET Driver	8-Dip	1.48	1.18	.89
TPS2816DBVR	296-3371-1-ND	2A HS Inverting MOSFET Driver	SOT-23-5	1.48	1.18	.89
TPS2816DBVR	296-3371-2-ND	2A HS Inverting MOSFET Driver	SOT-23-5	2265.00/3,000		
TPS2817DBVR	296-3372-1-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	1.48	1.18	.89
TPS2817DBVR	296-3372-2-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	2265.00/3,000		
TPS2818DBVR	296-3373-1-ND	2A HS Inverting MOSFET Driver	SOT-23-5	1.48	1.18	.89
TPS2818DBVR	296-3373-2-ND	2A HS Inverting MOSFET Driver	SOT-23-5	2265.00/3,000		
TPS2818MDBVREP	296-23101-1-ND	2A High Speed Inverting MOSFET Driver ***NEW!***	SOT-23-5	2.79	2.24	1.74
TPS2818MDBVREP	296-23101-2-ND	2A High Speed Inverting MOSFET Driver ***NEW!***	SOT-23-5	4686.00/3,000		
TPS2819DBVR	296-3374-1-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	1.48	1.18	.89
TPS2819DBVR	296-3374-2-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	2265.00/3,000		
TPS2819MDBVREP	296-23102-1-ND	2A High Speed Inverting MOSFET Driver ***NEW!***	SOT-23-5	2.79	2.24	1.74
TPS2819MDBVREP	296-23102-2-ND	2A High Speed Inverting MOSFET Driver ***NEW!***	SOT-23-5	4686.00/3,000		
TPS2828DBVR	296-1986-1-ND	2A HS Inverting MOSFET Driver	SOT-23-5	1.43	1.14	.86
TPS2828DBVR	296-1986-2-ND	2A HS Inverting MOSFET Driver	SOT-23-5	2190.00/3,000		
TPS2829DBVR	296-1987-1-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	1.43	1.14	.86
TPS2829DBVR	296-1987-2-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	2190.00/3,000		
TPS2830D	296-2390-5-ND	Non-Inverting Fast Sync. BUCK MOSFET Driver	14-SOIC	2.36	1.89	1.47
TPS2830PWP	296-3376-5-ND	Non-Inverting Fast Sync. BUCK MOSFET Driver	14-HTSSOP	2.36	1.89	1.47
TPS2831D	296-2391-5-ND	Invert Fast Sync. BUCK MOSFET Driver	14-SOIC	2.36	1.89	1.47
TPS2831PWP	296-3377-5-ND	Invert Fast Sync. BUCK MOSFET Driver	14-HTSSOP	2.36	1.89	1.47
TPS2832D	296-2392-5-ND	Non-Invert Fast Sync. BUCK FET Driver	8-SOIC	2.25	1.80	1.40
TPS2833D	296-2393-5-ND	Invert Fast Sync. BUCK MOSFET Driver	8-SOIC	2.25	1.80	1.40
TPS2834D	296-2394-5-ND	Non-Invert Fast Sync. BUCK FET Driver	14-SOIC	2.36	1.89	1.47
TPS2834PWP	296-3378-5-ND	Non-Invert Fast Sync. BUCK MOSFET Driver	14-HTSSOP	2.36	1.89	1.47
TPS2835D	296-2395-5-ND	Invert Fast Sync. BUCK MOSFET Driver	14-SOIC	2.36	1.89	1.47
TPS2835PWP	296-10885-5-ND	Invert Fast Sync. BUCK MOSFET Driver	14-HTSSOP	2.36	1.89	1.47
TPS2836D	296-2396-5-ND	Non-Invert Fast Sync. BUCK FET Driver	8-SOIC	2.81	2.25	1.75
TPS2838PWP	296-10886-5-ND	Non-Inverting Fast Sync. BUCK MOSFET Driver	16-HTSSOP	2.93	2.34	1.82
TPS2839PWP	296-10887-5-ND	Inverting Fast Sync. BUCK MOSFET Driver	16-HTSSOP	3.26	2.61	2.03
TPS2848PWP	296-10888-5-ND	MOSFET Driver with Regulator	14-HTSSOP	2.81	2.25	1.75
TPS2849PWP	296-10889-5-ND	MOSFET Driver with Regulator	14-HTSSOP	2.81	2.25	1.75
TPS2837D	296-2397-5-ND	Invert Fast Sync. BUCK MOSFET Driver	8-SOIC	2.81	2.25	1.75
TPS28225D	296-19791-5-ND	High-Freq. 4A Sync. MOSFET Driver	8-SOIC	1.43	1.14	.86
TPS28225DRBT	296-19792-1-ND	High-Freq. 4A Sync. MOSFET Driver	8-SON	1.43	1.14	.86
TPS28225DRBT	296-19792-2-ND	High-Freq. 4A Sync. MOSFET Driver	8-SON	199.50/250		
TPS28226DR	296-22853-1-ND	High-Frequency 4A Synchronous MOSFET Driver ***NEW!***	8-SOIC	1.43	1.14	.86
TPS28226DR	296-22853-2-ND	High-Frequency 4A Synchronous MOSFET Driver ***NEW!***	8-SOIC	1825.00/2,500		
TPS28226DRBT	296-22854-1-ND	High-Frequency 4A Synchronous MOSFET Driver ***NEW!***	8-DFN	1.43	1.14	.86
TPS28226DRBT	296-22854-2-ND	High-Frequency 4A Synchronous MOSFET Driver ***NEW!***	8-DFN	199.50/250		
UC2709DW	296-2398-5-ND	Dual High Speed MOSFET Driver	16-SOIC	8.50	6.80	5.74
UC2710N	296-2399-5-ND	High Current MOSFET Driver	8-Dip	7.20	5.76	4.86
UC2714D	296-12113-5-ND	Complementary Switch FET Driver with Aux Out	8-SOIC	2.36	1.89	1.47
UC2714N	296-12171-5-ND	Complementary Switch FET Driver with Aux Out	8-Dip	2.36	1.89	1.47
UC2715D	296-12172-5-ND	Complementary Switch FET Driver with Aux Out	8-SOIC	2.25	1.80	1.40
UC2715DP	296-12173-5-ND	Complementary Switch FET Driver with Aux Out	16-SOIC	2.25	1.80	1.40
UC2715N	296-12174-5-ND	Complementary Switch FET Driver with Aux Out	8-Dip	2.25	1.80	1.40
UC3706N	296-11242-5-ND	Dual High Speed MOSFET Driver	16-Dip	5.18	4.14	3.22
UC3709DW	296-2400-5-ND	Dual High Speed MOSFET Driver	16-SOIC	5.80	4.64	3.92
UC3709N	296-11245-5-ND	Dual High Speed MOSFET Driver	8-Dip	5.80	4.64	3.92
UC3710DW	296-2401-5-ND	Complementary High Current MOSFET Driver	16-SOIC	6.50	5.20	4.39
UC3710N	296-11246-5-ND	High-Current MOSFET Driver	8-Dip	6.50	5.20	4.39
UC3710T	296-11247-5-ND	High-Current MOSFET Driver	TO-220-5	6.50	5.20	4.39
UC3714D	296-11253-5-ND	High-Current MOSFET Driver	8-SOIC	2.38	1.90	1.43

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UC3714DP	296-11254-5-ND	High-Current MOSFET Driver	16-SOIC	2.38	1.90	1.43
UC3714N	296-11255-5-ND	High-Current MOSFET Driver	8-Dip	2.38	1.90	1.43
UC3715D	296-11256-5-ND	High-Current MOSFET Driver	8-SOIC	2.25	1.80	1.35
UC3715DP	296-11668-5-ND	Complementary Switch MOSFET Driver with Aux Out	16-SOIC	2.25	1.80	1.35
UC3715N	296-11257-5-ND	High-Current MOSFET Driver	8-Dip	2.25	1.80	1.35
UCC2837D	296-2403-5-ND	N-FET Linear Regulating Controller	8-SOIC	5.30	4.24	3.58
UCC27200D	296-21432-5-ND	120V Boot, 3A Peak, High Frequency, High-Side/Low-Side Driver	8-SOIC	2.79	2.24	1.74
UCC27200DDA	296-21433-5-ND	120V Boot, 3A Peak, High Frequency, High-Side/Low-Side Driver	8-SOIC	2.79	2.24	1.74
UCC27200DRMR	296-21434-1-ND	120V Boot, 3A Peak, High Frequency, High-Side/Low-Side Driver	8-SON	2.79	2.24	1.74
UCC27200DRMR	296-21434-2-ND	120V Boot, 3A Peak, High Frequency, High-Side/Low-Side Driver	8-SON	4686.00/3,000		
UCC27201D	296-21435-5-ND	120V Boot, 3A Peak, High Frequency, High-Side/Low-Side Driver	8-SOIC	2.79	2.24	1.74
UCC27201DDA	296-21436-5-ND	120V Boot, 3A Peak, High Frequency, High-Side/Low-Side Driver	8-SOIC	2.79	2.24	1.74
UCC27201DRMR	296-21437-1-ND	120V Boot, 3A Peak, High Frequency, High-Side/Low-Side Driver	8-SON	2.79	2.24	1.74
UCC27201DRMR	296-21437-2-ND	120V Boot, 3A Peak, High Frequency, High-Side/Low-Side Driver	8-SON	4686.00/3,000		
UCC27321D	296-13670-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-SOIC	2.48	1.98	1.54
UCC27321DGN	296-13671-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-MSOP	2.70	2.16	1.68
UCC27321P	296-13672-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-Dip	2.48	1.98	1.54
UCC27322D	296-13673-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-SOIC	2.48	1.98	1.54
UCC27322DGN	296-13674-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-MSOP	2.70	2.16	1.68
UCC27322P	296-13675-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-Dip	2.48	1.98	1.54
UCC27323D	296-12528-5-ND	4A High Speed Dual MOSFET Driver	8-SOIC	2.00	1.60	1.20
UCC27323DGN	296-12529-5-ND	4A High Speed Dual MOSFET Driver	8-MSOP	2.00	1.60	1.20
UCC27323P	296-12530-5-ND	4A High Speed Dual MOSFET Driver	8-Dip	2.00	1.60	1.20
UCC27324D	296-12531-5-ND	4A High Speed Dual MOSFET Driver	8-SOIC	2.00	1.60	1.20
UCC27324DGN	296-12532-5-ND	4A High Speed Dual MOSFET Driver	8-MSOP	2.00	1.60	1.20
UCC27324P	296-12533-5-ND	4A High Speed Dual MOSFET Driver	8-Dip	2.00	1.60	1.20
UCC27325D	296-12534-5-ND	4A High Speed Dual MOSFET Driver	8-SOIC	2.00	1.60	1.20
UCC27325DGN	296-12535-5-ND	4A High Speed Dual MOSFET Driver	8-MSOP	2.00	1.60	1.20
UCC27325P	296-12536-5-ND	4A High Speed Dual MOSFET Driver	8-Dip	2.00	1.60	1.20
UCC27423D	296-15864-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-SOIC	2.13	1.70	1.28
UCC27423DGN	296-15865-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-MSOP	2.13	1.70	1.28
UCC27423P	296-15866-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-Dip	2.13	1.70	1.28
UCC27424D	296-15867-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-SOIC	2.00	1.60	1.20
UCC27424DGN	296-15868-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-MSOP	2.00	1.60	1.20
UCC27424MDGNREP	296-22533-1-ND	4A Dual High Speed Low-Side MOSFET Driver ***NEW!***	8-MSOP	5.40	4.32	3.36
UCC27424MDGNREP	296-22533-2-ND	4A Dual High Speed Low-Side MOSFET Driver ***NEW!***	8-MSOP	7560.00/2,500		
UCC27424P	296-15869-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-Dip	2.00	1.60	1.20
UCC27425D	296-15870-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-SOIC	2.00	1.60	1.20
UCC27425DGN	296-15871-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-MSOP	2.00	1.60	1.20
UCC27425P	296-15872-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-Dip	2.00	1.60	1.20
UCC37321D	296-13684-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-SOIC	2.48	1.98	1.49
UCC37321DGN	296-13685-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-MSOP	2.48	1.98	1.54
UCC37321P	296-13686-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-Dip	2.48	1.98	1.49
UCC37322D	296-13687-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-SOIC	2.48	1.98	1.49
UCC37322DGN	296-13688-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-MSOP	2.48	1.98	1.54
UCC37322P	296-13689-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-Dip	2.48	1.98	1.49
UCC37323D	296-15691-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-SOIC	1.88	1.50	1.13
UCC37323DGN	296-15692-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-MSOP	1.88	1.50	1.13
UCC37323P	296-15693-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-Dip	1.88	1.50	1.13
UCC37324D	296-15694-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-SOIC	1.88	1.50	1.13
UCC37324DGN	296-15695-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-MSOP	1.88	1.50	1.13
UCC37324P	296-15696-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-Dip	1.88	1.50	1.13
UCC37325D	296-15697-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-SOIC	1.88	1.50	1.13
UCC37325DGN	296-15698-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-MSOP	1.88	1.50	1.13
UCC37325P	296-15699-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-Dip	1.88	1.50	1.13
UCD7100PWP	296-18042-5-ND	Digital Control Compatible Single Low Side ±4A MOSFET Driver	14-HTSSOP	2.48	1.98	1.49
UCD7201PWP	296-17924-5-ND	MOSFET Driver with Single Common Current Sense	14-HTSSOP	2.70	2.16	1.68

Power Distribution Switches

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2010AD	296-2555-5-ND	0.2A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2010APWP	296-3384-5-ND	0.2A, 2.7V-5.5V High-Side MOSFET Switch	14-HTSSOP	2.13	1.70	1.28
TPS2010PWR	296-3385-1-ND	0.2A, 2.7V-5.5V High-Side MOSFET Switch	14-TSSOP	2.38	1.90	1.43
TPS2010PWR	296-3385-2-ND	0.2A, 2.7V-5.5V High-Side MOSFET Switch	14-TSSOP	2470.00/2,000		
TPS2011AD	296-2556-5-ND	0.6A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2011APWP	296-13804-5-ND	0.6A, 2.7V-5.5V High-Side MOSFET Switch	14-HTSSOP	2.13	1.70	1.28
TPS2011D	296-3386-5-ND	0.6A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.38	1.90	1.43
TPS2012AD	296-2557-5-ND	1.0A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2012D	296-1957-5-ND	1.0A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.38	1.90	1.43
TPS2013AD	296-2558-5-ND	1.5A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2013APWPR	296-17531-1-ND	2.2A, 2.7V-5.5V High-Side MOSFET Switch	14-TSSOP	2.13	1.70	1.28
TPS2013APWPR	296-17531-2-ND	2.2A, 2.7V-5.5V High-Side MOSFET Switch	14-TSSOP	2210.00/2,000		
TPS2013D	296-1353-5-ND	1.5A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.38	1.90	1.43
TPS2013DR	296-1353-1-ND	1.5A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.38	1.90	1.43
TPS2013DR	296-1353-2-ND	1.5A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	3040.00/2,500		
TPS2013PWR	296-3388-1-ND	1.5A, 2.7V-5.5V High-Side MOSFET Switch	14-TSSOP	2.38	1.90	1.43
TPS2013PWR	296-3388-2-ND	1.5A, 2.7V-5.5V High-Side MOSFET Switch	14-TSSOP	2470.00/2,000		
TPS2014D	296-1354-5-ND	0.66A, 4V-5.5V High-Side MOSFET Switch	8-SOIC	4.50	3.60	2.80
TPS2014DR	296-1354-1-ND	0.66A, 4V-5.5V High-Side MOSFET Switch	8-SOIC	4.50	3.60	2.80
TPS2014DR	296-1354-2-ND	0.66A, 4V-5.5V High-Side MOSFET Switch	8-SOIC	6300.00/2,500		
TPS2014P	296-3389-5-ND	0.66A, 4-5.5V High-Side MOSFET Switch	8-Dip	4.50	3.60	2.80
TPS2015D	296-1355-5-ND	1.0A, 4V-5.5V High-Side MOSFET Switch	8-SOIC	4.50	3.60	2.80
TPS2015DR	296-1355-1-ND	1.0A, 4V-5.5V High-Side MOSFET Switch	8-SOIC	4.50	3.60	2.80
TPS2015DR	296-1355-2-ND	1.0A, 4V-5.5V High-Side MOSFET Switch	8-SOIC	6300.00/2,500		
TPS2015P	296-3390-5-ND	1.0A, 4V-5.5V High-Side MOSFET Switch	8-Dip	4.50	3.60	2.80
TPS2020D	296-2560-5-ND	0.22A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2021D	296-2561-5-ND	0.66A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2022D	296-2562-5-ND	1.1A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2023D	296-2563-5-ND	1.65A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2023P	296-12233-5-ND	1.65A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.15	1.72	1.29
TPS2024D	296-2564-5-ND	2.2A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2024DR	296-2564-1-ND	2.2A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2024DR	296-2564-2-ND	2.2A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2752.50/2,500		
TPS2024P	296-12234-5-ND	2.2A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.15	1.72	1.29
TPS2030D	296-2565-5-ND	0.22A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2030IDRQ1	296-18668-1-ND	0.22A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.25	1.80	1.40
TPS2030IDRQ1	296-18668-2-ND	0.22A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	3150.00/2,500		
TPS2030P	296-3392-5-ND	0.22A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.15	1.72	1.29
TPS2031D	296-2566-5-ND	0.66A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2032D	296-2567-5-ND	1.1A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2033D	296-2568-5-ND	1.65A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2033P	296-12235-5-ND	1.65A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.15	1.72	1.29
TPS2034D	296-2569-5-ND	2.2A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2034P	296-12236-5-ND	2.2A, 2.7V-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.15	1.72	1.29
TPS2041AD	296-3393-5-ND	0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	1.70	1.36	1.02
TPS2041BD	296-22880-5-ND	0.7A, 2.7V-5.5V, High-Side MOSFET Switch	16-SOIC	1.26	1.05	.84
TPS2041BDBVR	296-21263-1-ND	0.7A, 2.7V-5.5V, High-Side MOSFET Switch	SOT-23-5	1.26	1.05	.84
TPS2041BDBVR	296-21263-2-ND	0.7A, 2.7V-5.5V, High-Side MOSFET Switch	SOT-23-5	1638.00/3,000		
TPS2041BDGN	296-18930-5-ND	0.7A, 2.7V-5.5V, High-Side MOSFET Switch	8-MSOP	1.25	1.00	.75
TPS2041D	296-3394-5-ND	0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.39	1.91	1.49
TPS2041P	296-2570-5-ND	0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-Dip	2.39	1.91	1.49

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2042AD	296-3395-5-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2042BDGN	296-17060-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-MSOP	3.04	2.28	1.71
TPS2042BDR	296-17002-1-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	1.68	1.34	1.01
TPS2042BDR	296-17002-2-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2145.00/2,500		
TPS2042D	296-3396-5-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.88	2.31	1.80
TPS2042DR	296-3396-1-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.88	2.31	1.80
TPS2042DR	296-3396-2-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	4032.50/2,500		
TPS2042P	296-2571-5-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-Dip	2.88	2.31	1.80
TPS2043AD	296-3397-5-ND	Triple (2in/3out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2043BD	296-17211-5-ND	Triple (2in/3out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	1.90	1.52	1.14
TPS2043D	296-2572-5-ND	Triple (2in/3out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	3.65	2.92	2.27
TPS2043DR	296-2572-1-ND	Triple (2in/3out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	3.65	2.92	2.27
TPS2043DR	296-2572-2-ND	Triple (2in/3out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	5102.50/2,500		
TPS2044AD	296-3399-5-ND	Quad (2in/4out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	2.77	2.22	1.73
TPS2044BD	296-18931-5-ND	Quad (2in/4out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	2.10	1.68	1.26
TPS2044D	296-1959-5-ND	Quad (2in/4out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	4.59	3.68	2.86
TPS2045AD	296-3400-5-ND	0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	1.43	1.14	.86
TPS2045D	296-2573-5-ND	0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.39	1.91	1.49
TPS2045DR	296-2573-1-ND	0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.39	1.91	1.49
TPS2045DR	296-2573-2-ND	0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	3340.00/2,500		
TPS2045P	296-3402-5-ND	0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-Dip	2.39	1.91	1.49
TPS2046AD	296-3403-5-ND	Dual (1in/2out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.03	1.62	1.22
TPS2046BDR	296-17246-1-ND	Dual (1in/2out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	1.38	1.10	.83
TPS2046BDR	296-17246-2-ND	Dual (1in/2out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	1760.00/2,500		
TPS2046D	296-2574-5-ND	Dual (1in/2out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.77	2.22	1.73
TPS2046DR	296-2574-1-ND	Dual (1in/2out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.77	2.22	1.73
TPS2046DR	296-2574-2-ND	Dual (1in/2out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	3875.00/2,500		
TPS2046P	296-3405-5-ND	Dual (1in/2out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-Dip	2.77	2.22	1.73
TPS2047AD	296-3406-5-ND	Triple (2in/3out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	2.45	1.96	1.47
TPS2047BD	296-17403-5-ND	Triple (2in/3out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	1.90	1.52	1.14
TPS2047D	296-2575-5-ND	Triple (2in/3out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	3.83	3.06	2.38
TPS2047DR	296-2575-1-ND	Triple (2in/3out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	3.83	3.06	2.38
TPS2047DR	296-2575-2-ND	Triple (2in/3out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	5355.00/2,500		
TPS2048AD	296-3408-5-ND	Quad (2in/4out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	2.57	2.06	1.60
TPS2048DR	296-3409-1-ND	Quad (2in/4out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	4.88	3.91	3.04
TPS2048DR	296-3409-2-ND	Quad (2in/4out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	6835.00/2,500		
TPS2049D	296-21264-5-ND	Single Channel 100mA Power Switch	8-SOIC	1.26	1.05	.84
TPS2051AD	296-3410-5-ND	0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	1.50	1.20	.90
TPS2051BDBVR	296-21265-1-ND	0.7A, 2.7V-5.5V High-Side MOSFET Switch	SOT-23-5	1.44	1.20	.96
TPS2051BDBVR	296-21265-2-ND	0.7A, 2.7V-5.5V High-Side MOSFET Switch	SOT-23-5	1872.00/3,000		
TPS2051BDGNR	296-17313-1-ND	0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-MSOP	1.44	1.20	.96
TPS2051BDGNR	296-17313-2-ND	0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-MSOP	1560.00/2,500		
TPS2051BDR	296-16987-1-ND	0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	1.44	1.20	.96
TPS2051BDR	296-16987-2-ND	0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	1560.00/2,500		
TPS2051D	296-2576-5-ND	0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2051P	296-3411-5-ND	0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-Dip	2.30	1.84	1.43
TPS2052AD	296-3412-5-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.03	1.62	1.22
TPS2052BDR	296-17451-1-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	1.38	1.10	.83
TPS2052BDR	296-17451-2-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	1760.00/2,500		
TPS2052BDGN	296-17459-5-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-MSOP	1.58	1.26	.95
TPS2052D	296-2577-5-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.77	2.22	1.73
TPS2052DR	296-2577-1-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.77	2.22	1.73
TPS2052DR	296-2577-2-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	3875.00/2,500		
TPS2052P	296-3414-5-ND	Dual (1in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	8-Dip	2.77	2.22	1.73
TPS2053AD	296-3415-5-ND	Triple (2in/3out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	2.45	1.96	1.47
TPS2053BD	296-18932-5-ND	Triple (2in/3out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	1.90	1.52	1.14
TPS2053D	296-2578-5-ND	Triple (2in/3out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	3.65	2.92	2.27
TPS2053DR	296-2578-1-ND	Triple (2in/3out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	3.65	2.92	2.27
TPS2053DR	296-2578-2-ND	Triple (2in/3out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	5102.50/2,500		
TPS2054AD	296-3417-5-ND	Quad (2in/4out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	2.88	2.31	1.80
TPS2054BDR	296-16988-1-ND	Quad (2in/4out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	2.38	1.90	1.43
TPS2054BDR	296-16988-2-ND	Quad (2in/4out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	3040.00/2,500		
TPS2054D	296-1960-5-ND	Quad (2in/4out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	4.79	3.84	2.99
TPS2055AD	296-3418-5-ND	0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	1.44	1.20	.96
TPS2055D	296-2579-5-ND	0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2055DR	296-2579-1-ND	0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2055DR	296-2579-2-ND	0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	3212.50/2,500		
TPS2055P	296-3420-5-ND	0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-Dip	2.30	1.84	1.43
TPS2056AD	296-3421-5-ND	Dual (1in/2out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.03	1.62	1.22
TPS2056D	296-2580-5-ND	Dual (1in/2out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.77	2.22	1.73
TPS2056DR	296-2580-1-ND	Dual (1in/2out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	2.77	2.22	1.73
TPS2056DR	296-2580-2-ND	Dual (1in/2out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	8-SOIC	3875.00/2,500		
TPS2057AD	296-3423-5-ND	Triple (2in/3out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	2.15	1.72	1.29
TPS2057D	296-2581-5-ND	Triple (2in/3out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	3.65	2.92	2.27
TPS2057DR	296-2581-1-ND	Triple (2in/3out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	3.65	2.92	2.27
TPS2057DR	296-2581-2-ND	Triple (2in/3out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	5102.50/2,500		
TPS2058AD	296-3425-5-ND	Quad (2in/4out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	2.38	1.90	1.43
TPS2058D	296-2582-5-ND	Quad (2in/4out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	4.59	3.68	2.86
TPS2058DR	296-2582-1-ND	Quad (2in/4out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	4.59	3.68	2.86
TPS2058DR	296-2582-2-ND	Quad (2in/4out), 0.345A, 2.7V-5.5V High-Side MOSFET Switch	16-SOIC	6425.00/2,500		
TPS2060DGN	296-18023-5-ND	1.5A, 80m-Ohm, Dual Current-Limited, Power-Distribution Switch	8-MSOP	2.10	1.68	1.26
TPS2060DGNR	296-23170-1-ND	1.5A, 80m-Ohm, Dual Current-Limited, Power-Distribution Switch ***NEW!***	8-MSOP	2.10	1.68	1.26
TPS2060DGNR	296-23170-2-ND	1.5A, 80m-Ohm, Dual Current-Limited, Power-Distribution Switch ***NEW!***	8-MSOP	2687.50/2,500		
TPS2061D	296-18024-5-ND	1A, 80m-Ohm, Single Current-Limited, Power Distribution Switch	8-SOIC	1.25	1.00	.75
TPS2061DGNR	296-17225-1-ND	Current-Limited, Power-Distribution Switch	8-MSOP	1.25	1.00	.75
TPS2061DGNR	296-17225-2-ND	Current-Limited, Power-Distribution Switch	8-MSOP	1600.00/2,500		
TPS2062ADR	296-23100-1-ND	2-Ch., Current-Limited, Power-Distribution Switch ***NEW!***	8-SOIC	1.58	1.26	.95
TPS2062ADR	296-23100-2-ND	2-Ch., Current-Limited, Power-Distribution Switch ***NEW!***	8-SOIC	2015.00/2,500		
TPS2062ADRBR	296-23325-1-ND	2-Ch., Current-Limited, Power-Distribution Switch ***NEW!***	8-SON	1.58	1.26	.95
TPS2062ADRBR	296-23325-2-ND	2-Ch., Current-Limited, Power-Distribution Switch ***NEW!***	8-SON	2418.00/3,000		
TPS2062D	296-18933-5-ND	1A, 2.7V-5.5V Dual High-Side MOSFET Switch	8-SOIC	1.58	1.26	.95
TPS2062DGN	296-17536-5-ND	1A, 2.7V-5.5V Dual High-Side MOSFET Switch	8-MSOP	1.58	1.26	.95
TPS2062DR-1	296-21658-1-ND	1A, 2.7V-5.5V Dual High-Side MOSFET Switch	8-SOIC	1.58	1.26	.95
TPS2062DR-1	296-21658-2-ND	1A, 2.7V-5.5V Dual High-Side MOSFET Switch	8-SOIC	2015.00/2,500		
TPS2063DR	296-17386-1-ND	1A, 2.7V-5.5V Triple High-Side MOSFET Switch	16-SOIC	1.90	1.52	1.14
TPS2063DR	296-17386-2-ND	1A, 2.7V-5.5V Triple High-Side MOSFET Switch	16-SOIC	2432.50/2,500		
TPS2064DGN	296-17871-5-ND	Current-Limited, Dual Power-Distribution Switch	8-MSOP	2.27	1.82	1.42
TPS2065DGN-1	296-21641-5-ND	1A, 2.7V-5.5V High-Side MOSFET Switch	8-MSOP	1.58	1.26	.95
TPS2065DGNR	296-17314-1-ND	1A, 2.7V-5.5V High-Side MOSFET Switch	8-MSOP	1.48	1.18	.89
TPS2065DGNR	296-17314-2-ND	1A, 2.7V-5.5V High-Side MOSFET Switch	8-MSOP	1887.50/2,500		
TPS2065DR	296-17315-1-ND	1A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.25	1.00	.75
TPS2065DR	296-17315-2-ND	1A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1600.00/2,500		
TPS2066D	296-18934-5-ND	1A, 2.7V-5.5V Dual High-Side MOSFET Switch	8-SOIC	1.58	1.26	.95

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS2066DGN-1	296-21890-5-ND	80m-Ohm, Dual, 1A Current Limited, Power Distribution Switch	8-MSOP	1.58	1.26	.95
TPS2066DGNR	296-17316-1-ND	1A, 2.7V-5.5V Dual High-Side MOSFET Switch	8-MSOP	1.78	1.42	1.07
TPS2066DGNR	296-17316-2-ND	1A, 2.7V-5.5V Dual High-Side MOSFET Switch	8-MSOP	2272.50/2,500		
TPS2067DR	296-17387-1-ND	1A, 2.7V-5.5V Triple High-Side MOSFET Switch	16-SOIC	1.90	1.52	1.14
TPS2067DR	296-17387-2-ND	1A, 2.7V-5.5V Triple High-Side MOSFET Switch	16-SOIC	2432.50/2,500		
TPS2068D	296-22977-5-ND	80m-Ohm, Single, 1.5A Current-Limited, Power Distribution Switch ***NEW!***	8-SOIC	1.58	1.26	.95
TPS2068DGN	296-21891-5-ND	80m-Ohm, Single, 1.5A Current-Limited, Power Distribution Switch	8-MSOP	1.58	1.26	.95
TPS2069DGN	296-21892-5-ND	80m-Ohm, Single, 1.5A Current-Limited, Power Distribution Switch	8-MSOP	1.58	1.26	.95
TPS2070DAP	296-3427-5-ND	Power Controller for Bus/Self Powered Hub	32-HTSSOP	5.10	4.08	3.45
TPS2071DAP	296-3428-5-ND	Power Controller for Bus/Self Powered Hub	32-HTSSOP	5.10	4.08	3.45
TPS2071EVM-159	296-10877-ND	Evaluation Module for TPS2071	—	101.00	—	—
TPS2074DB	296-3429-5-ND	USB Hub Power Cont., Act. Low	24-SSOP	5.10	4.08	3.45
TPS2075DB	296-3430-5-ND	USB Hub Power Cont., Act. High	24-SSOP	5.10	4.08	3.45
TPS2080D	296-3431-5-ND	Dual (2in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch, Act. High	8-SOIC	1.63	1.30	.98
TPS2080EVM	296-13571-ND	Evaluation Module for TPS2080	—	50.00	—	—
TPS2081D	296-3432-5-ND	Dual (2in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch, Act. Low	8-SOIC	1.63	1.30	.98
TPS2082D	296-3433-5-ND	Dual (2in/2out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch, Act. Low	8-SOIC	1.63	1.30	.98
TPS2085D	296-3434-5-ND	Quad (4in/4out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch, Act. High	16-SOIC	2.36	1.89	1.47
TPS2086D	296-3435-5-ND	Quad (4in/4out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch, Act. Low	16-SOIC	2.36	1.89	1.47
TPS2087D	296-3436-5-ND	Quad (4in/4out), 0.7A, 2.7V-5.5V High-Side MOSFET Switch, Act. Low	16-SOIC	2.36	1.89	1.47
TPS2090D	296-3437-5-ND	Dual (2in/2out), 0.3A, 2.7V-5.5V High-Side MOSFET Switch, Act. High	8-SOIC	1.63	1.30	.98
TPS2091D	296-3438-5-ND	Dual (2in/2out), 0.3A, 2.7V-5.5V High-Side MOSFET Switch, Act. Low	8-SOIC	1.63	1.30	.98
TPS2092D	296-3439-5-ND	Dual (2in/2out), 0.3A, 2.7V-5.5V High-Side MOSFET Switch, Act. Low	8-SOIC	1.63	1.30	.98
TPS2095D	296-3440-5-ND	Quad (4in/4out), 0.3A, 2.7V-5.5V High-Side MOSFET Switch, Act. High	16-SOIC	2.36	1.89	1.47
TPS2096D	296-3441-5-ND	Quad (4in/4out), 0.3A, 2.7V-5.5V High-Side MOSFET Switch, Act. Low	16-SOIC	2.36	1.89	1.47
TPS2097D	296-3442-5-ND	Quad (4in/4out), 0.3A, 2.7V-5.5V High-Side MOSFET Switch, Act. Low	16-SOIC	2.36	1.89	1.47
TPS2100D	296-2583-5-ND	VAUX Power Distribution Switch	8-SOIC	1.63	1.30	.98
TPS2100DBVR	296-10878-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.63	1.30	.98
TPS2100DBVR	296-10878-2-ND	VAUX Power Distribution Switch	SOT-23-5	2496.00/3,000		
TPS2100DBVT	296-2584-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.75	1.40	1.05
TPS2100DBVT	296-2584-2-ND	VAUX Power Distribution Switch	SOT-23-5	245.00/250		
TPS2101D	296-2585-5-ND	VAUX Power Distribution Switch	8-SOIC	1.63	1.30	.98
TPS2101DBVR	296-10879-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.63	1.30	.98
TPS2101DBVR	296-10879-2-ND	VAUX Power Distribution Switch	SOT-23-5	2496.00/3,000		
TPS2101DBVT	296-2586-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.75	1.40	1.05
TPS2101DBVT	296-2586-2-ND	VAUX Power Distribution Switch	SOT-23-5	245.00/250		
TPS2102D	296-2587-5-ND	VAUX Power Distribution Switch	8-SOIC	1.88	1.50	1.13
TPS2102DBVR	296-10880-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.88	1.50	1.13
TPS2102DBVR	296-10880-2-ND	VAUX Power Distribution Switch	SOT-23-5	2880.00/3,000		
TPS2102DBVT	296-2588-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.00	1.60	1.20
TPS2102DBVT	296-2588-2-ND	VAUX Power Distribution Switch	SOT-23-5	280.00/250		
TPS2103D	296-2589-5-ND	VAUX Power Distribution Switch	8-SOIC	1.88	1.50	1.13
TPS2103DBVR	296-10881-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.88	1.50	1.13
TPS2103DBVR	296-10881-2-ND	VAUX Power Distribution Switch	SOT-23-5	2880.00/3,000		
TPS2103DBVT	296-2590-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.00	1.60	1.20
TPS2103DBVT	296-2590-2-ND	VAUX Power Distribution Switch	SOT-23-5	280.00/250		
TPS2104DBVR	296-10882-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.25	1.80	1.35
TPS2104DBVR	296-10882-2-ND	VAUX Power Distribution Switch	SOT-23-5	3456.00/3,000		
TPS2104DBVT	296-3447-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.25	1.80	1.40
TPS2104DBVT	296-3447-2-ND	VAUX Power Distribution Switch	SOT-23-5	332.50/250		
TPS2105D	296-2592-5-ND	VAUX Power Distribution Switch	8-SOIC	2.25	1.80	1.35
TPS2105DBVR	296-10883-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.25	1.80	1.35
TPS2105DBVR	296-10883-2-ND	VAUX Power Distribution Switch	SOT-23-5	3456.00/3,000		
TPS2105DBVT	296-3448-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.25	1.80	1.40
TPS2105DBVT	296-3448-2-ND	VAUX Power Distribution Switch	SOT-23-5	332.50/250		
TPS2110APWR	296-16935-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2110APWR	296-16935-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	1950.00/2,000		
TPS2110PW	296-14202-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2111AEVM-061	296-18935-ND	Evaluation Module for TPS2111A-061	—	10.20	—	—
TPS2111APWR	296-16936-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2111APWR	296-16936-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	1950.00/2,000		
TPS2111PW	296-14203-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2111EVM	296-20588-ND	Evaluation Module for TPS2111	—	50.00	—	—
TPS2112APWR	296-16937-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2112APWR	296-16937-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	1950.00/2,000		
TPS2113AEVM-061	296-18936-ND	Evaluation Module for TPS2113A-061	—	10.20	—	—
TPS2113APWR	296-16938-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2113APWR	296-16938-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	1950.00/2,000		
TPS2113EVM	296-20589-ND	Evaluation Module for TPS2113	—	50.00	—	—
TPS2113PW	296-14205-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2114APWR	296-16939-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2114APWR	296-16939-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	1950.00/2,000		
TPS2114PW	296-14206-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2115AEVM-061	296-18937-ND	Evaluation Module for TPS2115A-061	—	10.20	—	—
TPS2115APWR	296-16940-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2115APWR	296-16940-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	1950.00/2,000		
TPS2115EVM	296-20590-ND	Evaluation Module for TPS2115	—	50.00	—	—
TPS2115PW	296-14207-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2145IPWP	296-13385-5-ND	LDO and Dual Switch with Controlled Rise Times for DSP and Portable Applications	14-HTSSOP	2.59	2.07	1.61
TPS2147IDGQ	296-13386-5-ND	LDO and Dual Switch with Controlled Rise Times for DSP and Portable Applications	10-MSOP	2.48	1.98	1.54
TPS2148IDGN	296-13387-5-ND	3.3V, LDO and Dual Switch for USB Peripheral Power Management	8-MSOP	2.48	1.98	1.49
TPS2149IDGN	296-13388-5-ND	3.3V, LDO and Dual Switch for USB Bus Powered Hub Power Management	8-MSOP	2.38	1.90	1.43
TPS2155IPWP	296-13389-5-ND	LDO and Dual Switch with Controlled Rise Times for DSP and Portable Applications	14-HTSSOP	2.59	2.07	1.61
TPS2158IDGN	296-13391-5-ND	3.3V, LDO and Dual Switch for USB Peripheral Power Management	8-MSOP	2.48	1.98	1.49
TPS2159IDGN	296-13392-5-ND	3.3V, LDO and Dual Switch for USB Bus Powered Hub Power Management	8-MSOP	2.38	1.90	1.43
TPS2201IDBR	296-3449-1-ND	Dual PCMCIA Power Switch	30-SSOP	11.75	10.58	9.38
TPS2201IDBR	296-3449-2-ND	Dual PCMCIA Power Switch	30-SSOP	17414.00/2,000		
TPS2201IDFR	296-3450-1-ND	Dual PCMCIA Power Switch	30-SSOP	11.75	10.58	9.38
TPS2201IDFR	296-3450-2-ND	Dual PCMCIA Power Switch	30-SSOP	8707.00/1,000		
TPS2202AIDBR	296-3451-1-ND	Dual PCMCIA Power Switch	30-SSOP	11.16	10.05	8.92
TPS2202AIDBR	296-3451-2-ND	Dual PCMCIA Power Switch	30-SSOP	16550.00/2,000		
TPS2204APWP	296-15133-5-ND	Dual PCMCIA Power Switch	24-HTSSOP	4.16	3.33	2.59
TPS2205IDAPR	296-3454-1-ND	Dual PCMCIA Power I/F Switch	32-TSSOP	5.80	4.64	3.92
TPS2205IDAPR	296-3454-2-ND	Dual PCMCIA Power I/F Switch	32-TSSOP	7250.00/2,000		
TPS2205IDBR	296-3455-1-ND	Dual PCMCIA Power I/F Switch	30-SSOP	5.80	4.64	3.92
TPS2205IDBR	296-3455-2-ND	Dual PCMCIA Power I/F Switch	30-SSOP	7250.00/2,000		
TPS2205IDFR	296-3456-1-ND	Dual PCMCIA Power I/F Switch	30-SSOP	5.80	4.64	3.92
TPS2205IDFR	296-3456-2-ND	Dual PCMCIA Power I/F Switch	30-SSOP	3625.00/1,000		
TPS2206ADAP	296-15134-5-ND	Dual PCMCIA Power I/F Switch	32-TSSOP	4.73	3.78	2.94
TPS2206ADB	296-14058-5-ND	Dual PCMCIA Power I/F Switch	30-SSOP	4.73	3.78	2.94
TPS2206IDAPR	296-3457-1-ND	Dual PCMCIA Power Switch	32-TSSOP	5.90	4.72	3.99
TPS2206IDAPR	296-3457-2-ND	Dual PCMCIA Power Switch	32-TSSOP	7376.00/2,000		
TPS2206IDB	296-2246-5-ND	Dual PCMCIA Power Switch	30-SSOP	5.90	4.72	3.99
TPS2206IDBR	296-2246-1-ND	Dual PCMCIA Power Switch	30-SSOP	5.90	4.72	3.99
TPS2206IDBR	296-2246-2-ND	Dual PCMCIA Power Switch	30-SSOP	7376.00/2,000		
TPS2206IDFR	296-13510-1-ND	Dual PCMCIA Power Switch	30-SSOP	5.90	4.72	3.99
TPS2206IDFR	296-13510-2-ND	Dual PCMCIA Power Switch	30-SSOP	3688.00/1,000		
TPS2210APWP	296-15135-5-ND	PCMCIA Power Interface Switch	24-HTSSOP	2.03	1.62	1.22
TPS2211AIDB	296-3460-5-ND	PCMCIA Power Interface Switch	16-SSOP	1.78	1.42	1.07
TPS2211AIDBR	296-13827-1-ND	PCMCIA Power Interface Switch	16-SSOP	1.78	1.42	1.07
TPS2211AIDBR	296-13827-2-ND	PCMCIA Power Interface Switch	16-SSOP	1846.00/2,000		
TPS2211APW	296-18279-5-ND	PCMCIA Power Interface Switch	20-TSSOP	1.78	1.42	1.07
TPS2211APWP	296-13872-5-ND	PCMCIA Power Interface Switch	20-HTSSOP	1.78	1.42	1.07
TPS2211IDBR	296-3461-2-ND	PCMCIA Power Interface Switch	16-SSOP	3520.00/2,000		
TPS2212IDB	296-2247-5-ND	Single PCMCIA Power Switch	16-SSOP	3.26	2.61	2.03
TPS2214ADB	296-2248-5-ND	Dual PCMCIA Power Switch	24-SSOP	5.42	4.34	3.66
TPS2214DB	296-2249-5-ND	Dual PCMCIA Power Switch	24-SSOP	5.60	4.48	3.78
TPS2216ADAP	296-2250-5-ND	Dual PCMCIA Power Switch	32-HTSSOP	5.52	4.42	3.73
TPS2216ADB	296-2251-5-ND	Dual PCMCIA Power Switch	30-SSOP	5.52	4.42	3.73
TPS2216DB	296-2252-5-ND	Dual PCMCIA Power Switch	30-SSOP	6.36	5.09	4.30
TPS2216DAP	296-3462-5-ND	PCMCIA Power Switch Serial Interface	32-HTSSOP	6.36	5.09	4.30
TPS2220ADB	296-18938-5-ND	Cardbus Power Interface Switch for Serial PCMCIA Controller	24-SSOP	2.03	1.62	1.22
TPS2220BDB	296-17773-ND	Cardbus Power Interface Switch for Serial PCMCIA Controller	24-SSOP	1.78	1.42	1.07
TPS2220BPWP	296-17774-ND	Cardbus Power Interface Switch for Serial PCMCIA Controller	24-HTSSOP	1.78	1.42	1.07
TPS2220APWP	296-15136-5-ND	Cardbus Power Interface Switch for Serial PCMCIA Controller	24-HTSSOP	2.03	1.62	1.22
TPS2221PWP	296-13747-5-ND	Single PC Card Power Interface Switch for PCMCIA Controllers	14-HTSSOP	4.16	3.33	2.59
TPS2223ADB	296-13015-5-ND	Dual-Slot CardBus Interface Switches	24-SSOP	3.85	3.08	2.40
TPS2223APWP	296-13016-5-ND	Dual-Slot CardBus Interface Switches	24-HTSSOP	3.85	3.08	2.40
TPS2223DB	296-12387-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	24-SSOP	4.16	3.33	2.59
TPS2223PWP	296-12388-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	24-HTSSOP	4.16	3.33	2.59
TPS2224ADB	296-13017-5-ND	Dual-Slot CardBus Interface Switch	24-SSOP	4.16	3.33	2.59
TPS2224APWP	296-13018-5-ND	Dual-Slot CardBus Interface Switch	24-HTSSOP	4.16	3.33	2.59
TPS2224DB	296-12389-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	24-SSOP	4.59	3.68	2.86
TPS2224PWP	296-12390-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	24-HTSSOP	4.59	3.68	2.86
TPS2226ADB	296-13019-5-ND	Dual-Slot CardBus Interface Switch	30-SSOP	4.50	3.60	2.80
TPS2226DB	296-12391-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	30-SSOP	5.02	4.02	3.13
TPS2228DB	296-13748-5-ND	Dual PC Card Power Interface Switch for PCMCIA Controllers	30-SSOP	6.40	5.12	4.32
TPS2228PWP	296-13749-5-ND	Dual PC Card Power Interface Switch for PCMCIA Controllers	20-HTSSOP	6.20	4.96	4.19
TPS2231EVM	296-17281-ND	Evaluation Module for TPS2231	—	50.00	—	—
TPS2231MRGPR	296-21266-1-ND	ExpressCard™ Power Interface Switch	20-QFN	2.10	1.68	1.26
TPS2231MRGPR	296-21266-2-ND	ExpressCard™ Power Interface Switch	20-QFN	3225.00/3,000		
TPS2231PW	296-20688-5-ND	ExpressCard™ Power Interface Switch	20-TSSOP	2.10	1.68	1.26
TPS2231PWP	296-17239-ND	ExpressCard™ Power Interface Switch	24-HTSSOP	2.30	1.84	1.38
TPS2231RGPT	296-18035-1-ND	ExpressCard™ Power Interface Switch	20-QFN	2.30	1.84	1.38
TPS2231RGPT	296-18035-2-ND	ExpressCard™ Power Interface Switch	20-QFN	322.00/250		
TPS2236DAP	296-17591-5-ND	Dual ExpressCard™ Power Interface Switch	24-HTSSOP	2.99	2.40	1.87
TPS2350EVM	296-18940-ND	Evaluation Module for TPS2350	—	50.00	—	—
TPS2383BPM	296-18303-ND	Octal Power Sourcing Equipment Power Manager	64-LQFP	12.25	11.03	9.78
TPS2383PM	296-15138-ND	Octal Power Sourcing Equipment Power Manager	64-LQFP	12.25	11.03	9.78

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2400DBVR	296-17744-1-ND	Overvoltage Protection Controller	SOT-23-5	2.00	1.60	1.20
TPS2400DBVR	296-17744-2-ND	Overvoltage Protection Controller	SOT-23-5	3072.00/3,000		
TPS2400DBVT	296-17226-1-ND	Overvoltage Protection Controller	SOT-23-5	2.00	1.60	1.20
TPS2400DBVT	296-17226-2-ND	Overvoltage Protection Controller	SOT-23-5	280.00/250		
TPS2550DBVT	296-23131-1-ND	Adj. Current-Limited Power Distribution Switch ***NEW!***	SOT-23-6	1.90	1.52	1.14
TPS2550DBVT	296-23131-2-ND	Adj. Current-Limited Power Distribution Switch ***NEW!***	SOT-23-6	266.00/250		
TPS2550DRVT	296-23132-1-ND	Adj. Current-Limited Power Distribution Switch ***NEW!***	6-SON	1.90	1.52	1.14
TPS2550DRVT	296-23132-2-ND	Adj. Current-Limited Power Distribution Switch ***NEW!***	6-SON	266.00/250		
TPS2551DBVT	296-23133-1-ND	Adj. Current-Limited Power Distribution Switch ***NEW!***	SOT-23-6	1.90	1.52	1.14
TPS2551DBVT	296-23133-2-ND	Adj. Current-Limited Power Distribution Switch ***NEW!***	SOT-23-6	266.00/250		
TPS2551DRVT	296-23134-1-ND	Adj. Current-Limited Power Distribution Switch ***NEW!***	6-SON	1.90	1.52	1.14
TPS2551DRVT	296-23134-2-ND	Adj. Current-Limited Power Distribution Switch ***NEW!***	6-SON	266.00/250		
TPS54974PWP	296-15140-5-ND	Dual Input Bus 9A Output Sync. Buck PWM Switcher with Integrated FETs	28-HTSSOP	7.30	5.84	4.93
UC37131D	296-11248-5-ND	Low Side Smart Power Switch	8-SOIC	4.84	3.87	3.01
UC37132D	296-11249-5-ND	High/Low Side Smart Power Switch	16-SOIC	5.40	4.32	3.36
UC37132N	296-11250-5-ND	High/Low Side Smart Power Switch	14-Dip	5.40	4.32	3.36
UC37133D	296-11251-5-ND	High Side Smart Power Switch	8-SOIC	4.84	3.87	3.01
UC37133N	296-11252-5-ND	High Side Smart Power Switch	8-Dip	4.84	3.87	3.01

PWM Controllers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DRV101FKTWT	296-15963-1-ND	PWM Solenoid/Valve Driver	7-DDPAK	7.70	—	—
DRV101FKTWT	296-15963-2-ND	PWM Solenoid/Valve Driver	7-DDPAK	259.90/50		
DRV101T	DRV101T-ND	PWM Solenoid/Valve Driver	7-TO-220	7.70	—	—
DRV102FKTWT	296-15964-1-ND	PWM Solenoid/Valve Driver	7-DDPAK	7.70	—	—
DRV102FKTWT	296-15964-2-ND	PWM Solenoid/Valve Driver	7-DDPAK	259.90/50		
DRV102T	DRV102T-ND	PWM Solenoid/Valve Driver	TO-220-7	7.70	—	—
DRV103H	DRV103H-ND	Low Side DMOS Power Switch PWM Out	8-SOP	4.12	3.30	2.57
DRV103H/2K5	DRV103H/2K5CT-ND	Low Side DMOS Power Switch PWM Out	8-HSOP	4.12	3.30	2.57
DRV103H/2K5	DRV103H/2K5TR-ND	Low Side DMOS Power Switch PWM Out	8-HSOP	5765.00/2,500		
DRV103U	296-11622-ND	PWM Low Side Driver	8-SOIC	3.65	2.92	2.27
DRV104PWPR	296-15746-1-ND	1.2A High Side PWM Driver	14-HTSSOP	3.60	2.88	2.24
DRV104PWPR	296-15746-2-ND	1.2A High Side PWM Driver	14-HTSSOP	4080.00/2,000		
DRV401AIDWPR	296-21226-1-ND	Sensor Signal Conditioning IC	20-SOIC	4.28	3.42	2.66
DRV401AIDWPR	296-21226-2-ND	Sensor Signal Conditioning IC	20-SOIC	2423.00/1,000		
DRV401AIRGWT	296-19872-1-ND	Sensor Signal Conditioning IC	20-QFN	4.73	3.78	2.94
DRV401AIRGWT	296-19872-2-ND	Sensor Signal Conditioning IC	20-QFN	698.25/250		
DRV590DWP	296-12201-5-ND	1.2A High Efficiency PWM Power Driver	20-SOIC	15.75	14.70	13.65
DRV590GQCR	296-18430-1-ND	1.2A High Efficiency PWM Power Driver	48-BGA	16.20	15.12	14.04
DRV590GQCR	296-18430-2-ND	1.2A High Efficiency PWM Power Driver	48-BGA	32805.00/2,500		
DRV590ZQCR	296-21227-1-ND	1.2A High Efficiency PWM Power Driver	48-BGA	15.75	14.70	13.65
DRV590ZQCR	296-21227-2-ND	1.2A High Efficiency PWM Power Driver	48-BGA	22175.00/2,500		
DRV591EVM	296-13550-ND	Evaluation Module for DRV591	—	101.00	—	—
DRV591VFP	296-12430-ND	High Efficiency PWM Power Driver	32-HLQFP	15.83	14.25	12.64
DRV592VFP	296-12550-ND	High Efficiency PWM Power Driver	32-HLQFP	15.83	14.25	12.64
DRV593EVM	296-19948-ND	Evaluation Module for DRV593	—	101.00	—	—
DRV593VFPR	296-13643-1-ND	±3A High Efficiency PWM Power Driver	32-HLQFP	14.83	13.35	11.84
DRV593VFPR	296-13643-2-ND	±3A High Efficiency PWM Power Driver	32-HLQFP	10992.00/1,000		
DRV594EVM	296-19949-ND	Evaluation Module for DRV594	—	101.00	—	—
DRV594VFPR	296-13644-1-ND	±3A High Efficiency PWM Power Driver	32-HLQFP	14.83	13.35	11.84
DRV594VFPR	296-13644-2-ND	±3A High Efficiency PWM Power Driver	32-HLQFP	10992.00/1,000		
SG2524DR	296-12552-1-ND	PWM Controller with Shutdown	16-SOIC	.84	.70	.56
SG2524DR	296-12552-2-ND	PWM Controller with Shutdown	16-SOIC	910.00/2,500		
SG2524N	296-9685-5-ND	PWM Controller with Shutdown	16-Dip	.84	.70	.56
SG3524D	296-9686-5-ND	Regulating PWM	16-SOIC	.84	.70	.56
SG3524N	296-9687-5-ND	Regulating PWM	16-Dip	.84	.70	.56
SN74TVC3010DBQR	296-9891-1-ND	10-Bit Programmable Volt. Clamp	24-QSOP	1.63	1.30	.98
SN74TVC3010DBQR	296-9891-2-ND	10-Bit Programmable Volt. Clamp	24-QSOP	2080.00/2,500		
SN74TVC3010DGVR	296-9892-1-ND	10-Bit Programmable Volt. Clamp	24-TVSOP	1.38	1.10	.83
SN74TVC3010DGVR	296-9892-2-ND	10-Bit Programmable Volt. Clamp	24-TVSOP	1430.00/2,000		
SN74TVC3010PWR	296-9893-1-ND	10-Bit Programmable Volt. Clamp	24-TSSOP	1.38	1.10	.83
SN74TVC3010PWR	296-9893-2-ND	10-Bit Programmable Volt. Clamp	24-TSSOP	1430.00/2,000		
SN74TVC3306DCTR	296-13307-1-ND	Dual Voltage Clamp	SM8	1.38	1.10	.83
SN74TVC3306DCTR	296-13307-2-ND	Dual Voltage Clamp	SM8	2112.00/3,000		
SN74TVC3306DCUR	296-13308-1-ND	Dual Voltage Clamp	US8	1.38	1.10	.83
SN74TVC3306DCUR	296-13308-2-ND	Dual Voltage Clamp	US8	2112.00/3,000		
SN74TVC16222ADGGR	296-9888-1-ND	22-Bit Programmable Volt. Clamp	48-TSSOP	2.08	1.66	1.25
SN74TVC16222ADGGR	296-9888-2-ND	22-Bit Programmable Volt. Clamp	48-TSSOP	2158.00/2,000		
SN74TVC16222ADGVR	296-9889-1-ND	22-Bit Programmable Volt. Clamp	48-TVSOP	2.08	1.66	1.25
SN74TVC16222ADGVR	296-9889-2-ND	22-Bit Programmable Volt. Clamp	48-TVSOP	2158.00/2,000		
SN74TVC16222ADLR	296-9890-1-ND	22-Bit Programmable Volt. Clamp	48-SSOP	2.08	1.66	1.25
SN74TVC16222ADLR	296-9890-2-ND	22-Bit Programmable Volt. Clamp	48-SSOP	1079.00/1,000		
TL494CD	296-1293-5-ND	PWM Controller	16-SOIC	.52	.39	.30
TL494CDR	296-1293-1-ND	PWM Controller	16-SOIC	.55	.44	.33
TL494CDR	296-1293-2-ND	PWM Controller	16-SOIC	372.50/2,500		
TL494CN	296-1799-5-ND	PWM Controller	16-Dip	.52	.39	.30
TL494CNSR	296-10191-1-ND	PWM Controller	16-SOP	.52	.39	.30
TL494CNSR	296-10191-2-ND	PWM Controller	16-SOP	346.00/2,000		
TL494CPWR	296-10192-1-ND	PWM Controller	16-TSSOP	.60	.45	.34
TL494CPWR	296-10192-2-ND	PWM Controller	16-TSSOP	400.00/2,000		
TL494ID	296-10193-5-ND	PWM Control Circuit	16-SOIC	.76	.57	.43
TL494IN	296-10194-5-ND	PWM Controller	16-Dip	.76	.57	.43
TL499ACPSR	296-17592-1-ND	Wide Range Power Supply Controller	8-SOIC	1.25	1.00	.75
TL499ACPSR	296-17592-2-ND	Wide Range Power Supply Controller	8-SOIC	1300.00/2,000		
TL594CD	296-10220-5-ND	PWM Control Circuit	16-SOIC	.96	.72	.54
TL594CDR	296-15012-1-ND	PWM Control Circuit	16-SOIC	.96	.72	.54
TL594CDR	296-15012-2-ND	PWM Control Circuit	16-SOIC	780.00/2,500		
TL594CN	296-10221-5-ND	PWM Control Circuit	16-Dip	.84	.63	.48
TL594CPWR	296-18890-1-ND	PWM Control Circuit	16-TSSOP	.84	.63	.48
TL594CPWR	296-18890-2-ND	PWM Control Circuit	16-TSSOP	558.00/2,000		
TL594ID	296-10222-5-ND	PWM Control Circuit	16-SOIC	1.08	.90	.72
TL594IN	296-10223-5-ND	PWM Control Circuit	16-Dip	1.08	.90	.72
TL594INSR	296-13355-1-ND	PWM Control Circuit	16-SOP	1.08	.90	.72
TL594INSR	296-13355-2-ND	PWM Control Circuit	16-SOP	958.00/2,000		
TL594IPWR	296-10224-1-ND	PWM Control Circuit	16-TSSOP	1.08	.90	.72
TL594IPWR	296-10224-2-ND	PWM Control Circuit	16-TSSOP	958.00/2,000		
TL598CD	296-10225-5-ND	PWM Controller	16-SOIC	1.35	1.13	.90
TL598CN	296-10226-5-ND	PWM Controller	16-Dip	1.35	1.13	.90
TL712CDR	296-15013-1-ND	Differential Comparator	8-SOIC	1.38	1.15	.92
TL712CDR	296-15013-2-ND	Differential Comparator	8-SOIC	1495.00/2,500		
TL1451ACD	296-13350-5-ND	Dual Channel PWM Controller	16-SOIC	1.20	1.00	.80
TL1451ACDBR	296-10133-1-ND	Dual Channel PWM Controller	16-SSOP	1.20	1.00	.80
TL1451ACDBR	296-10133-2-ND	Dual Channel PWM Controller	16-SSOP	1064.00/2,000		
TL1451ACN	296-12197-5-ND	Dual Channel PWM Controller	16-Dip	1.20	1.00	.80
TL1451ACNSR	296-10134-1-ND	Dual Channel PWM Controller	16-SOIC	1.20	1.00	.80
TL1451ACNSR	296-10134-2-ND	Dual Channel PWM Controller	16-SOIC	1064.00/2,000		
TL1451ACPWR	296-10135-1-ND	Dual Channel PWM Controller	16-TSSOP	1.20	1.00	.80
TL1451ACPWR	296-10135-2-ND	Dual Channel PWM Controller	16-TSSOP	1064.00/2,000		
TL1451AMDREP	296-19511-1-ND	Dual Channel PWM Controller	16-SOIC	5.45	4.36	3.39
TL1451AMDREP	296-19511-2-ND	Dual Channel PWM Controller	16-SOIC	7622.50/2,500		
TL1451AQD	296-10137-5-ND	Dual Channel PWM Controller	16-SOIC	1.38	1.15	.92
TL1451AQDREP	296-22405-1-ND	Dual Channel PWM Controller ***NEW!***	16-SOIC	2.25	1.80	1.40
TL1451AQDREP	296-22405-2-ND	Dual Channel PWM Controller ***NEW!***	16-SOIC	3150.00/2,500		
TL1451AQPWRQ1	296-18659-1-ND	Dual Channel PWM Controller	16-TSSOP	2.38	1.91	1.49
TL1451AQPWRQ1	296-18659-2-ND	Dual Channel PWM Controller	16-TSSOP	2698.00/2,000		
TL1453CD	296-10138-5-ND	Dual Channel PWM Controller	16-SOIC	2.10	1.68	1.26
TL1453CN	296-10139-5-ND	Dual Channel PWM Controller	16-Dip	2.10	1.68	1.26
TL1454ACD	296-13792-5-ND	Dual Channel PWM Control Circuit	16-SOIC	2.43	1.94	1.46
TL1454ACDBR	296-13793-1-ND	Dual Channel PWM Control Circuit	16-SSOP	2.43	1.94	1.46
TL1454ACDBR	296-13793-2-ND	Dual Channel PWM Control Circuit	16-SSOP	2522.00/2,000		
TL1454ACN	296-13794-5-ND	Dual Channel PWM Control Circuit	16-Dip	2.43	1.94	1.46
TL1454ACNSR	296-13795-1-ND	Dual Channel PWM Control Circuit	16-SOP	2.43	1.94	1.46
TL1454ACNSR	296-13795-2-ND	Dual Channel PWM Control Circuit	16-SOP	2522.00/2,000		
TL1454ACPWR	296-13796-1-ND	Dual Channel PWM Control Circuit	16-TSSOP	2.43	1.94	1.46
TL1454ACPWR	296-13796-2-ND	Dual Channel PWM Control Circuit	16-TSSOP	2522.00/2,000		
TL2842BDR	296-21844-1-ND	Current-Mode PWM Controller	14-SOIC	.99	.83	.66
TL2842BDR	296-21844-2-ND	Current-Mode PWM Controller	14-SOIC	1072.50/2,500		
TL2842BDR-8	296-21845-1-ND	Current-Mode PWM Controller	8-SOIC	.99	.83	.66
TL2842BDR-8	296-21845-2-ND	Current-Mode PWM Controller	8-SOIC	1072.50/2,500		
TL2842DR-8	296-12998-1-ND	Current-Mode PWM Controller	8-SOIC	.75	.63	.50
TL2842DR-8	296-12998-2-ND	Current-Mode PWM Controller	8-SOIC	812.50/2,500		
TL2842P	296-16646-5-ND	Current-Mode PWM Controller	8-Dip	.75	.63	.50
TL2843BDR	296-21846-1-ND	Current-Mode PWM Controller	14-SOIC	.99	.83	.66
TL2843BDR	296-21846-2-ND	Current-Mode PWM Controller	14-SOIC	1072.50/2,500		
TL2843BDR-8	296-21847-1-ND	Current-Mode PWM Controller	8-SOIC	.99	.83	.66
TL2843BDR-8	296-21847-2-ND	Current-Mode PWM Controller	8-SOIC	1072.50/2,500		
TL2843D	296-1977-5-ND	Current-Mode PWM Controller	14-SOIC	.75	.63	.50
TL2843DR	296-17541-1-ND	Current-Mode PWM Controller	14-SOIC	.75	.63	.50
TL2843DR	296-17541-2-ND	Current-Mode PWM Controller	14-SOIC	812.50/2,500		
TL2843DR-8	296-10164-1-ND	Current-Mode PWM Controller	8-SOIC	.75	.63	.50
TL2843DR-8	296-10164-2-ND	Current-Mode PWM Controller	8-SOIC	812.50/2,500		
TL2844BDR	296-21848-1-ND	Current-Mode PWM Controller	14-SOIC	.99	.83	.66
TL2844BDR	296-21848-2-ND	Current-Mode PWM Controller	14-SOIC	1072.50/2,500		
TL2844BDR-8	296-21849-1-ND	Current-Mode PWM Controller	8-SOIC	.99	.83	.66
TL2844BDR-8	296-21849-2-ND	Current-Mode PWM Controller	8-SOIC	1072.50/2,500		
TL2844DR	296-1367-1-ND	Current-Mode PWM Controller	14-SOIC	.75	.63	.50
TL2844DR-8	296-10165-1-ND	Current-Mode PWM Controller	8-SOIC	.75	.63	.50
TL2844DR-8	296-10165-2-ND	Current-Mode PWM Controller	8-SOIC	812.50/2,500		
TL2844P	296-16647-5-ND	Current-Mode PWM Controller	8-Dip	.75	.63	.50
TL2845BDR	296-21850-1-ND	Current-Mode PWM Controller	14-SOIC	.99	.83	.66
TL2845BDR	296-21850-2-ND	Current-Mode PWM Controller	14-SOIC	1072.50/2,500		
TL2845BDR-8	296-21851-1-ND	Current-Mode PWM Controller	8-SOIC	.99	.83	.66
TL2845BDR-8	296-21851-2-ND	Current-Mode PWM Controller	8-SOIC	1072.50/2,500		
TL2845DR-8	296-10166-1-ND	Current-Mode PWM Controller	8-SOIC	.75	.63	.50
TL2845DR-8	296-10166-2-ND	Current-Mode PWM Controller	8-SOIC	812.50/2,500		
TL3842BD	296-23296-5-ND	Current-Mode PWM Controller ***NEW!***	14-SOIC	.90	.75	.60
TL3842DR-8	296-10173-1-ND	Current-Mode PWM Controller	8-SOIC	.88	.66	.50
TL3842DR-8	296-10173-2-ND	Current-Mode PWM Controller	8-SOIC	715.00/2,500		
TL3842P	296-10174-5-ND	Current-Mode PWM Controller	8-Dip	.88	.66	.50
TL3843DR	296-15010-1-ND	Current-Mode PWM Controller	14-SOIC	.88	.66	.50
TL3843DR	296-15010-2-ND	Current-Mode PWM Controller	14-SOIC	715.00/2,500		
TL3843DR-8	296-10175-1-ND	Current-Mode PWM Controller	8-SOIC	.88	.66	.50
TL3843DR-8	296-10175-2-ND	Current-Mode PWM Controller	8-SOIC	715.00/2,500		
TL3843P	296-10176-5-ND	Current-Mode PWM Controller	8-Dip	.88	.66	.50
TL3844DR-8	296-10177-1-ND	Current-Mode PWM Controller	8-SOIC	.88	.66	.50
TL3844DR-8	296-10177-2-ND	Current-Mode PWM Controller	8-SOIC	715.00/2,500		
TL3844P	296-10178-5-ND	Current-Mode PWM Controller	8-Dip	.88	.66	.50
TL3845DR	296-15011-1-ND	Current-Mode PWM Controller	14-SOIC	.88	.66	.50
TL3845DR	296-15011-2-ND	Current-Mode PWM Controller	14-SOIC	715.00/2,500		
TL3845DR-8	296-10179-1-ND	Current-Mode PWM Controller	8-SOIC	.88	.66	.50
TL3845DR-8	296-10179-2-ND	Current-Mode PWM Controller	8-SOIC	715.00/2,500		
TL3845P	296-10180-5-ND	Current-Mode PWM Controller	8-Dip	.88	.66	.50
TL5001ACD	296-2472-5-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.25	1.00	.75
TL5001ACDR	296-2472-1-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.25	1.00	.75
TL5001ACDR	296-2472-2-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1600.00/2,500		
TL5001AIP	296-10203-5-ND	PWM Cont. w/Wide Input Volt. Range	8-Dip	1.25	1.00	.75
TL5001AQDR	296-16812-1-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.38	1.10	.83
TL5001AQDR	296-16812-2-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1760.00/2,500		
TL5001AQDRG4Q1	296-22068-1-ND	PWM Controller with Wide Input Volt. Range ***NEW!***	8-SOIC	1.48	1.18	.89
TL5001AQDRG4Q1	296-22068-2-ND	PWM Controller with Wide Input Volt. Range ***NEW!***	8-SOIC	1887.50/2,500		
TL5001AQDRQ1	296-20655-1-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.48	1.18	.89
TL5001AQDRQ1	296-20655-2-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1887.50/2,500		
TL5001CDR	296-1294-1-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.29	1.08	.86
TL5001CDR	296-1294-2-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1397.50/2,500		
TL5001CP	296-10205-5-ND	PWM Cont. w/Wide Input Volt. Range	8-Dip	1.29	1.08	.86

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL5001CPSR	296-10206-1-ND	PWM Cont. w/Wide Input Volt. Range	8-SOP	1.29	1.08	.86
TL5001CPSR	296-10206-2-ND	PWM Cont. w/Wide Input Volt. Range	8-SOP	1144.00/2,000		
TL5001EVM-097	296-10210-ND	Evaluation Module for TL5001	—	50.00	—	—
TL5001ID	296-10214-5-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.29	1.08	.86
TL5001QD	296-10215-5-ND	PWM Cont. w/Wide Input Volt. Range	8-SOIC	1.44	1.20	.96
TL5001QDG4	296-22045-5-ND	PWM Controller with Wide Input Volt. Range ***NEW!***	8-SOIC	1.44	1.20	.96
TL5002CDR	296-10216-1-ND	PWM Controller	8-SOP	1.68	1.34	1.01
TL5002CDR	296-10216-2-ND	PWM Controller	8-SOP	2145.00/2,500		
TL5002EVM-182	296-13561-ND	Evaluation Module for TL5002	—	99.78	—	—
TLC2932AIPW	296-19331-5-ND	High Performance PLL	14-TSOP	3.38	2.70	2.10
TLC2932IPWR	296-10262-1-ND	High Performance PLL	14-TSSOP	2.88	2.31	1.80
TLC2932IPWR	296-10262-2-ND	High Performance PLL	14-TSSOP	3264.00/2,000		
TLC2933AIPW	296-19332-5-ND	High Performance PLL	14-TSOP	3.38	2.70	2.10
TLC2933IPW	296-11907-5-ND	High Performance PLL	14-TSSOP	2.88	2.31	1.80
TLC2933IPWR	296-11907-1-ND	High Performance PLL	14-TSSOP	2.88	2.31	1.80
TLC2933IPWR	296-11907-2-ND	High Performance PLL	14-TSSOP	3264.00/2,000		
TLC2934IPWR	296-10263-1-ND	High Performance Single PLL	14-TSSOP	2.77	2.22	1.73
TLC2934IPWR	296-10263-2-ND	High Performance Single PLL	14-TSSOP	3136.00/2,000		
TPS5100IPW	296-2474-5-ND	3-Channel PWM Controller	16-TSSOP	2.93	2.34	1.82
TPS43000EVM-001	296-20594-ND	Evaluation Module for TPS43000	—	50.00	—	—
TPS43000PW	296-12403-5-ND	Hi-Freq. Sync. PWM Controller	16-TSSOP	4.73	3.78	2.94
TPS54354MPWPREP	296-22456-1-ND	4.5V to 20V Input, 3A Output Sync. PWM Switcher ***NEW!***	16-HTSSOP	7.80	6.24	5.27
TPS54354MPWPREP	296-22456-2-ND	4.5V to 20V Input, 3A Output Sync. PWM Switcher ***NEW!***	16-HTSSOP	9750.00/2,000		
TPS54356MPWPREP	296-22457-1-ND	4.5V to 20V Input, 3A Output Sync. PWM Switcher ***NEW!***	16-HTSSOP	7.80	6.24	5.27
TPS54356MPWPREP	296-22457-2-ND	4.5V to 20V Input, 3A Output Sync. PWM Switcher ***NEW!***	16-HTSSOP	9750.00/2,000		
TPS54372EVM-215	296-20595-ND	Evaluation Module for TPS54372	—	10.20	—	—
TPS54372PWP	296-13055-5-ND	3A Output Sync. PWM Switcher	20-HTSSOP	5.06	4.05	3.15
TPS54550MPWPREP	296-22458-1-ND	4.5V to 20V Input, 6A Output Sync. PWM Switcher ***NEW!***	16-HTSSOP	2.25	1.80	1.40
TPS54550MPWPREP	296-22458-2-ND	4.5V to 20V Input, 6A Output Sync. PWM Switcher ***NEW!***	16-HTSSOP	2550.00/2,000		
TPS54616PWPR	296-12288-1-ND	Sync.-Buck PWM Converter	28-HTSSOP	6.40	5.12	4.32
TPS54616PWPR	296-12288-2-ND	Sync.-Buck PWM Converter	28-HTSSOP	8000.00/2,000		
TPS54910EVM-213	296-20604-ND	Evaluation Module for TPS54910	—	10.20	—	—
TPS54910PWP	296-13409-5-ND	3V-4V In, 9A Out, Sync. PWM Switcher w/Integrated FETs (SWIFT™)	28-HTSSOP	7.30	5.84	4.93
TPS56100PWP	296-2475-5-ND	DSP Power Supply Controller	28-HTSSOP	7.40	5.92	5.00
TPS56300PWP	296-2476-5-ND	DSP Supply Controller	28-HTSSOP	8.70	6.96	5.88
TPS56302EVM-163	296-10942-ND	Evaluation Module for TPS56302	—	50.00	—	—
TPS56302PWP	296-2477-5-ND	Dual DSP Supply Controller	28-HTSSOP	8.70	6.96	5.88
UC1842AMDREP	296-18181-1-ND	Current Mode PWM Controller ***NEW!***	8-SOIC	5.04	4.04	3.41
UC1842AMDREP	296-18181-2-ND	Current Mode PWM Controller ***NEW!***	8-SOIC	7812.50/2,500		
UC1843AMDREP	296-18182-1-ND	Current Mode PWM Controller	8-SOIC	5.67	4.54	3.53
UC1843AMDREP	296-18182-2-ND	Current Mode PWM Controller	8-SOIC	7937.50/2,500		
UC1845AMDREP	296-18184-1-ND	Current Mode PWM Controller ***NEW!***	8-SOIC	5.86	4.69	3.96
UC1845AMDREP	296-18184-2-ND	Current Mode PWM Controller ***NEW!***	8-SOIC	9082.50/2,500		
UC1846MDWREP	296-21291-1-ND	Current Mode PWM Controller	16-SOIC	5.78	4.63	3.91
UC1846MDWREP	296-21291-2-ND	Current Mode PWM Controller	16-SOIC	3613.00/1,000		
UC2524ADW	296-11151-5-ND	Advanced Regulating PWM	16-SOIC	4.28	3.42	2.66
UC2524AN	296-11152-5-ND	Advanced Regulating PWM	16-Dip	4.28	3.42	2.66
UC2525ADW	296-11153-5-ND	Regulating PWM	16-SOIC	3.96	3.17	2.47
UC2525AN	296-11154-5-ND	Regulating PWM	16-Dip	4.70	3.77	2.93
UC2525BDW	296-2479-5-ND	Regulating PWM	16-SOIC	5.98	4.79	4.04
UC2526ADW	296-11155-5-ND	Regulating PWM	18-SOIC	3.42	2.74	2.13
UC2526AN	296-11156-5-ND	Regulating PWM	18-Dip	3.42	2.74	2.13
UC2572D	296-2480-5-ND	Negative Output Flyback PWM	8-SOIC	2.70	2.16	1.68
UC2572N	296-11157-5-ND	Negative Output Flyback PWM	8-Dip	2.70	2.16	1.68
UC2573N	296-11158-5-ND	Buck PWM Voltage Supply Regulator	8-Dip	2.70	2.16	1.68
UC2625DW	296-11162-5-ND	Brushless DC Motor Controller	28-SOIC	9.16	8.25	7.32
UC2637DW	296-2481-5-ND	DC Motor Switch-Mode Controller	20-SOIC	7.10	5.68	4.80
UC2637N	296-11163-5-ND	DC Motor Switch-Mode Controller	18-Dip	7.10	5.68	4.80
UC2638DW	296-2482-5-ND	PWM Motor Controller	20-SOIC	7.50	6.00	5.07
UC2705D	296-2484-5-ND	High Speed Power Driver	8-SOIC	5.10	4.08	3.45
UC2705N	296-11164-5-ND	High Speed Power Driver	8-Dip	5.10	4.08	3.45
UC2706DW	296-2485-5-ND	Dual Output Driver	16-SOIC	6.20	4.96	4.19
UC2707DW	296-2486-5-ND	Dual Channel Power Driver	16-SOIC	6.10	4.88	4.12
UC2707N	296-11165-5-ND	Dual Channel Power Driver	16-Dip	6.10	4.88	4.12
UC2708DW	296-2487-5-ND	Dual Non-Inverting Power Driver	16-SOIC	7.50	6.00	5.07
UC2823ADW	296-2488-5-ND	High Speed PWM Controller	16-SOIC	9.00	8.10	7.19
UC2823AN	296-11166-5-ND	High Speed PWM Controller	16-Dip	9.00	8.10	7.19
UC2823BDW	296-2489-5-ND	High Speed PWM Controller	16-SOIC	10.25	9.23	8.18
UC2823N	296-11167-5-ND	High Speed PWM Controller	16-Dip	3.65	2.92	2.27
UC2824DW	296-15145-5-ND	High Speed PWM Controller	16-SOIC	9.91	8.93	7.92
UC2825ADW	296-2490-5-ND	High Speed PWM Controller	16-SOIC	5.60	4.48	3.78
UC2825AMDWREP	296-21292-1-ND	High Speed PWM Controller	16-SOIC	9.36	7.49	6.32
UC2825AMDWREP	296-21292-2-ND	High Speed PWM Controller	16-SOIC	11700.00/2,000		
UC2825AN	296-11168-5-ND	High Speed PWM Controller	16-Dip	5.60	4.48	3.78
UC2825AQDWREP	296-19565-1-ND	High Speed PWM Controller ***NEW!***	16-SOIC	7.88	6.31	5.32
UC2825AQDWREP	296-19565-2-ND	High Speed PWM Controller ***NEW!***	16-SOIC	9850.00/2,000		
UC2825BDW	296-2491-5-ND	High Speed PWM Controller	16-SOIC	9.00	8.10	7.19
UC2825BN	296-11169-5-ND	High Speed PWM Controller	16-Dip	9.00	8.10	7.19
UC2825DW	296-11170-5-ND	High Speed PWM Controller	16-SOIC	3.65	2.92	2.27
UC2825N	296-11171-5-ND	High Speed PWM Controller	16-Dip	3.65	2.92	2.27
UC2827DW-1	296-2492-5-ND	Current Fed PWM Controller	24-SOIC	7.40	5.92	5.00
UC2827DW-2	296-2493-5-ND	Voltage Fed PWM Controller	24-SOIC	7.40	5.92	5.00
UC2834N	296-11172-5-ND	High-Efficiency Regulator Controller	16-Dip	11.41	10.28	9.12
UC2842AD	296-11173-5-ND	Current-Mode PWM Controller	14-SOIC	2.15	1.72	1.29
UC2842AD8	296-11174-5-ND	Current-Mode PWM Controller	8-SOIC	2.15	1.72	1.29
UC2842AN	296-11175-5-ND	Current-Mode PWM Controller	8-Dip	2.15	1.72	1.29
UC2842AQDR	296-15197-1-ND	Current-Mode PWM Controller	14-SOIC	2.15	1.72	1.29
UC2842AQDR	296-15197-2-ND	Current-Mode PWM Controller	14-SOIC	2752.50/2,500		
UC2842AQD8R	296-15196-1-ND	Current-Mode PWM Controller	8-SOIC	2.15	1.72	1.29
UC2842AQD8R	296-15196-2-ND	Current-Mode PWM Controller	8-SOIC	2752.50/2,500		
UC2842N	296-11176-5-ND	Current-Mode PWM Controller	8-Dip	2.25	1.80	1.35
UC2843AD	296-11177-5-ND	Current-Mode PWM Controller	14-SOIC	2.15	1.72	1.29
UC2843AD8	296-11178-5-ND	Current-Mode PWM Controller	8-SOIC	2.15	1.72	1.29
UC2843AN	296-11179-5-ND	Current-Mode PWM Controller	8-Dip	2.15	1.72	1.29
UC2843AQDR	296-15201-1-ND	Current-Mode PWM Controller	14-SOIC	2.15	1.72	1.29
UC2843AQDR	296-15201-2-ND	Current-Mode PWM Controller	14-SOIC	2752.50/2,500		
UC2843AQD8R	296-15200-1-ND	Current-Mode PWM Controller	8-SOIC	2.15	1.72	1.29
UC2843AQD8R	296-15200-2-ND	Current-Mode PWM Controller	8-SOIC	2752.50/2,500		
UC2843D8	296-11180-5-ND	Current-Mode PWM Controller	8-SOIC	2.15	1.72	1.29
UC2843N	296-11181-5-ND	Current-Mode PWM Controller	8-Dip	2.15	1.72	1.29
UC2844AD	296-11182-5-ND	Current-Mode PWM Controller	14-SOIC	2.15	1.72	1.29
UC2844AN	296-11183-5-ND	Current-Mode PWM Controller	8-Dip	2.15	1.72	1.29
UC2844AQD	296-15681-5-ND	Current-Mode PWM Controller	14-SOIC	2.30	1.84	1.38
UC2844AQD8	296-15682-5-ND	Current-Mode PWM Controller	8-SOIC	2.30	1.84	1.38
UC2844AQD8R	296-15683-1-ND	Current-Mode PWM Controller	8-SOIC	2.25	1.80	1.40
UC2844AQD8R	296-15683-2-ND	Current-Mode PWM Controller	8-SOIC	3150.00/2,500		
UC2844AQDR	296-15684-1-ND	Current-Mode PWM Controller	14-SOIC	2.25	1.80	1.40
UC2844AQDR	296-15684-2-ND	Current-Mode PWM Controller	14-SOIC	3150.00/2,500		
UC2844D8	296-11184-5-ND	Current-Mode PWM Controller	8-SOIC	2.15	1.72	1.29
UC2845AD	296-11185-5-ND	Current-Mode PWM Controller	14-SOIC	2.25	1.80	1.40
UC2845AD8	296-11186-5-ND	Current-Mode PWM Controller	8-SOIC	2.25	1.80	1.40
UC2845AN	296-11187-5-ND	Current-Mode PWM Controller	8-Dip	2.25	1.80	1.40
UC2845AQDR	296-15205-1-ND	Current-Mode PWM Controller	14-SOIC	2.40	1.92	1.44
UC2845AQDR	296-15205-2-ND	Current-Mode PWM Controller	14-SOIC	3072.50/2,500		
UC2845AQD8R	296-15204-1-ND	Current-Mode PWM Controller	8-SOIC	2.79	2.24	1.74
UC2845AQD8R	296-15204-2-ND	Current-Mode PWM Controller	8-SOIC	3905.00/2,500		
UC2845N	296-11188-5-ND	Current-Mode PWM Controller	8-Dip	2.45	1.97	1.53
UC2846DW	296-11189-5-ND	Current-Mode PWM Controller	16-SOIC	3.83	3.06	2.38
UC2846N	296-11190-5-ND	Current-Mode PWM Controller	16-Dip	3.83	3.06	2.38
UC2849DW	296-2494-5-ND	Secondary-Side Current-Mode Controller	24-SOIC	7.10	5.68	4.80
UC2849DWTR	296-14446-1-ND	Secondary-Side Current-Mode Controller	24-SOIC	7.10	5.68	4.80
UC2849DWTR	296-14446-2-ND	Secondary-Side Current-Mode Controller	24-SOIC	4438.00/1,000		
UC2849N	296-11191-5-ND	Secondary-Side Current-Mode Controller	24-Dip	7.10	5.68	4.80
UC2851N	296-11192-5-ND	Prog. Off-Line PWM Controller	18-Dip	10.33	9.30	8.25
UC2853AD	296-19434-ND	High Power Factor Pre-Regulator	8-SOIC	2.48	1.98	1.49
UC2853AN	296-19435-ND	High Power Factor Pre-Regulator	8-Dip	2.48	1.98	1.49
UC2853N	296-11193-5-ND	High Power Factor Pre-Regulator	8-Dip	2.70	2.16	1.68
UC2854ADW	296-2495-5-ND	Power Factor Pre-Regulator	16-SOIC	3.49	2.79	2.17
UC2854BDW	296-2496-5-ND	Power Factor Pre-Regulator	16-SOIC	3.49	2.79	2.17
UC2854BMDWREP	296-21935-1-ND	Power Factor Pre-Regulator	16-SOIC	5.62	4.50	3.80
UC2854BMDWREP	296-21935-2-ND	Power Factor Pre-Regulator	16-SOIC	7026.00/2,000		
UC2854BN	296-11194-5-ND	Power Factor Pre-Regulator	16-Dip	3.49	2.79	2.17
UC2854DW	296-11195-5-ND	Power Factor Pre-Regulator	16-SOIC	3.15	2.52	1.96
UC2855ADW	296-2497-5-ND	Power Factor Pre-Regulator	20-SOIC	11.41	10.28	9.12
UC2855BDW	296-2498-5-ND	Power Factor Pre-Regulator	20-SOIC	11.41	10.28	9.12
UC2855BN	296-11196-5-ND	Power Factor Pre-Regulator	20-Dip	11.41	10.28	9.12
UC2856DW	296-11197-5-ND	Improved Current-Mode PWM Controller	16-SOIC	4.05	3.24	2.52
UC2856N	296-11198-5-ND	Improved Current-Mode PWM Controller	16-Dip	4.05	3.24	2.52
UC2856QDWR	296-19902-1-ND	Improved Current Mode PWM Controller	16-SOIC	4.50	3.60	2.80
UC2856QDWR	296-19902-2-ND	Improved Current Mode PWM Controller	16-SOIC	5100.00/2,000		
UC2861DW	296-14061-5-ND	Resonant-Mode Power Supply Controller	16-SOIC	5.40	4.32	3.36
UC2864DW	296-11199-5-ND	Power Supply Controller	16-SOIC	5.40	4.32	3.36
UC2866N	296-15348-5-ND	Resonant-Mode Power Supply Controller	16-Dip	5.40	4.32	3.36
UC2872DW	296-11200-5-ND	Lamp Ballast Controller	16-SOIC	8.40	6.72	5.67
UC2875N	296-11201-5-ND	Phase Shift Resonant Controller	20-Dip	8.91	8.03	7.12
UC2875SDWREP	296-20800-1-ND	Phase Shift Resonant Controller	28-SOIC	11.36	10.23	9.08
UC2875SDWREP	296-20800-2-ND	Phase Shift Resonant Controller	28-SOIC	8423.00/1,000		
UC2879DW	296-11202-5-ND	Phase Shift PWM Controller	20-SOIC	8.10	6.48	5.47
UC2879N	296-11203-5-ND	Phase Shift PWM Controller	20-Dip	8.10	6.48	5.47
UC2901D	296-11204-5-ND	Isolated Feedback Generator	14-SOIC	5.60	4.48	3.78
UC2901MDREP	296-22532-1-ND	Isolated Feedback Generator ***NEW!***	14-SOIC	9.86	7.89	6.66
UC2901MDREP	296-22532-2-ND	Isolated Feedback Generator ***NEW!***	14-SOIC	15282.50/2,500		
UC2901N	296-11205-5-ND	Isolated Feedback Generator	14-Dip	5.60	4.48	3.78
UC2901Q	296-11206-5-ND	Isolated Feedback Generator	20-PLCC	5.60	4.48	3.78
UC2903N	296-11207-5-ND	Supply/Line Monitor	18-Dip	5.51	4.41	3.43
UC2906N	296-11208-5-ND	Lead Acid Charge Management	16-Dip	5.50	4.40	3.72
UC2907DW	296-2499-5-ND	Load Share Controller	16-SOIC	5.00	4.00	3.38
UC3524ADW	296-11211-5-ND	Advanced Regulating PWM	16-SOIC	3.65	2.92	2.27
UC3524AN	296-11212-5-ND	Advanced Regulating PWM	16-Dip	3.65	2.92	2.27
UC3524D	296-11213-5-ND	Advanced Regulating PWM	16-SOIC	2.03	1.62	1.22
UC3524N	296-11214-5-ND	Advanced Regulating PWM	16-Dip	2.03	1.62	1.22
UC3525ADW	296-11215-5-ND	Regulating PWM	16-SOIC	2.25	1.80	1.40
UC3525AN	296-11216-5-ND	Regulating PWM	16-Dip	2.25	1.80	1.40
UC3525AQ	296-11217-5-ND	Regulating PWM	20-PLCC	2.25	1.80	1.40
UC3525BDW	296-2503-5-ND	Regulating PWM	16-SOIC	4.82	3.86	3.00
UC3525BN	296-11218-5-ND	Regulating PWM	16-Dip	4.82	3.86	3.00
UC3526ADW	296-11219-5-ND	Regulating PWM	18-SOIC	2.25	1.80	1.40
UC3526AN	296-11220-5-ND	Regulating PWM	18-Dip	2.25	1.80	1.40
UC3526DW	296-11221-5-ND	Regulating PWM	18-SOIC	2.25	1.80	1.40
UC3526N	296-11222-5-ND	Regulating PWM	18-Dip	2.25	1.80	1.40
UC3527AN	296-11223-5-ND	Regulating PWM	16-Dip	3.71	2.97	2.31
UC3527BN	296-2504-5-ND	Regulating PWM	16-Dip	5.00	4.00	3.38
UC3572D	296-2506-5-ND	Negative Output Flyback PWM	8-SOIC	2.36	1.89	1.47
UC3572N	296-11224-5-ND	Negative Output Flyback PWM	8-Dip	2.36	1.89	1.47
UC3573D	296-2507-5-ND	Buck PWM Voltage Supply Regulator	8-SOIC	2.36	1.89	1.47
UC3573N	296-11225-5-ND	Buck PWM Voltage Supply Regulator	8-Dip	2.36	1.89	1.47
UC3578DP	296-11226-5-ND	Buck PWM Step Down Voltage Reg.	16-SOIC	5.90	4.72	3.99
UC3578N	296-11227-5-ND	Buck PWM Step Down Voltage Reg.	16-Dip	5.90	4.72	3.99
UC3625DW	296-11235-5-ND	Brushless DC Motor Controller	28-SOIC	8.33	7.50	6.65
UC3625N	296-11236-5-ND	Brushless DC Motor Controller	28-Dip	8.33	7.50	6.65
UC3625Q	296-15064-5-ND	Brushless DC Motor Controller	28-PLCC	8.33	7.50	6.65
UC3637DW	296-2508-5-ND	DC Motor Drive Controller	20-SOIC	6.40	5.12	4.32
UC3637N	296-11237-5-ND	DC Motor Drive Controller	18-Dip	6.40	5.12	4.32
UC3638DW	296-2509-5-ND	PWM Motor Controller	20-SOIC	6.60	5.28	4.46
UC3638N	296-11238-5-ND	PWM Motor Controller	20-Dip	6.60	5.28	4.46
UC3638Q	296-13056-5-ND	Advanced PWM Motor Controller	20-PLCC	6.60	5.28	4.46
UC3705D	296-2511-5-ND	High Speed Power Driver	8-SOIC	5.18	4.14	3.22
UC3705N	296-11240-5-ND	High Speed Power Driver	8-Dip	5.18	4.14	3.22
UC3705T	296-11241-5-ND	High Speed Power Driver	TO-220-5	5.18	4.14	3.22
UC3706DW	296-2512-5-ND	Dual Output Driver	16-SOIC	5.18	4.14	3.22

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UC3707DW	296-2513-5-ND	Dual Channel Power Driver	16-SOIC	5.10	4.08	3.45
UC3707N	296-11243-5-ND	Dual Channel Power Driver	16-Dip	5.10	4.08	3.45
UC3708DW	296-2514-5-ND	Dual Non-Inverting Power Driver	16-SOIC	6.20	4.96	4.19
UC3708N	296-12120-5-ND	Dual Non-Inverting Power Driver	8-Dip	6.20	4.96	4.19
UC3708NE	296-11244-5-ND	Dual Non-Inverting Power Driver	16-Dip	6.20	4.96	4.19
UC3823ADW	296-2515-5-ND	High Speed PWM Controller	16-SOIC	9.80	7.84	6.62
UC3823AN	296-11261-5-ND	High Speed PWM Controller	16-Dip	9.80	7.84	6.62
UC3823BN	296-11262-5-ND	High Speed PWM Controller	16-Dip	9.75	8.78	7.79
UC3823DW	296-11263-5-ND	High Speed PWM Controller	16-SOIC	3.42	2.74	2.13
UC3823Q	296-11264-5-ND	High Speed PWM Controller	20-PLCC	3.42	2.74	2.13
UC3823BDW	296-2516-5-ND	High Speed PWM Controller	16-SOIC	9.75	8.78	7.79
UC3824DW	296-11265-5-ND	High Speed PWM Controller	16-SOIC	9.10	7.28	6.15
UC3824N	296-11266-5-ND	High Speed PWM Controller	16-Dip	9.10	7.28	6.15
UC3825ADW	296-2517-5-ND	High Speed PWM Controller	16-SOIC	5.30	4.24	3.58
UC3825AN	296-11267-5-ND	High Speed PWM Controller	16-Dip	5.30	4.24	3.58
UC3825AQ	296-11268-5-ND	High Speed PWM Controller	20-PLCC	5.30	4.24	3.58
UC3825BDW	296-2518-5-ND	High Speed PWM Controller	16-SOIC	8.50	7.65	6.79
UC3825BN	296-11269-5-ND	High Speed PWM Controller	16-Dip	8.50	7.65	6.79
UC3825DW	296-11270-5-ND	High Speed PWM Controller	16-SOIC	3.42	2.74	2.13
UC3825N	296-11271-5-ND	High Speed PWM Controller	16-Dip	3.42	2.74	2.13
UC3827DW-1	296-2519-5-ND	Buck, Current Fed PWM Controller	24-SOIC	7.00	5.60	4.73
UC3827DW-2	296-2520-5-ND	Buck, Voltage Fed PWM Controller	24-SOIC	7.00	5.60	4.73
UC3827N-1	296-2521-5-ND	Buck, Current Fed PWM Controller	24-Dip	7.00	5.60	4.73
UC3827N-2	296-2522-5-ND	Buck, Voltage Fed PWM Controller	24-Dip	7.00	5.60	4.73
UC3834N	296-11275-5-ND	High Efficiency Linear Regulator	16-Dip	9.41	8.48	7.52
UC3835N	296-2523-5-ND	High Efficiency Regulator Controller	8-Dip	6.10	4.88	4.12
UC3836D	296-2524-5-ND	High Efficiency Regulator Controller	8-SOIC	6.80	5.44	4.59
UC3836N	296-11276-5-ND	High Efficiency Regulator Controller	8-Dip	6.80	5.44	4.59
UC3841N	296-11277-5-ND	Prog., Off-Line, PWM Controller	18-Dip	8.60	6.88	5.81
UC3842AD	296-11278-5-ND	Current-Mode PWM Controller	14-SOP	1.90	1.52	1.14
UC3842AD8	296-11279-5-ND	Current-Mode PWM Controller	8-SOP	1.90	1.52	1.14
UC3842ADW	296-13426-5-ND	Current-Mode PWM Controller	16-SOIC	1.90	1.52	1.14
UC3842AN	296-11280-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3842D	296-13427-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3842D8	296-11281-5-ND	Current-Mode PWM Controller	8-SOIC	1.90	1.52	1.14
UC3842N	296-11282-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3843AD	296-11283-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3843AD8	296-11284-5-ND	Current-Mode PWM Controller	8-SOIC	1.90	1.52	1.14
UC3843AN	296-11285-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3843D	296-11286-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3843D8	296-11287-5-ND	Current-Mode PWM Controller	8-SOP	1.90	1.52	1.14
UC3843N	296-11288-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3844AD	296-11289-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3844AD8	296-11290-5-ND	Current-Mode PWM Controller	8-SOIC	1.90	1.52	1.14
UC3844AN	296-11291-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3844D	296-11292-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3844D8	296-11293-5-ND	Current-Mode PWM Controller	8-SOIC	1.90	1.52	1.14
UC3844N	296-11294-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3845AD	296-11295-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3845AD8	296-11296-5-ND	Current-Mode PWM Controller	8-SOIC	1.90	1.52	1.14
UC3845AN	296-11297-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3845D	296-11298-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3845D8	296-11299-5-ND	Current-Mode PWM Controller	8-SOIC	1.90	1.52	1.14
UC3846DW	296-11300-5-ND	Current-Mode PWM Controller	16-SOIC	3.60	2.88	2.24
UC3846N	296-11301-5-ND	Current-Mode PWM Controller	16-Dip	3.60	2.88	2.24
UC3847DW	296-11302-5-ND	Current-Mode PWM Controller	16-SOIC	5.70	4.56	3.85
UC3847N	296-11303-5-ND	Current-Mode PWM Controller	16-Dip	5.70	4.56	3.85
UC3848DW	296-11304-5-ND	Avg. Current-Mode PWM Controller	16-SOIC	5.00	4.00	3.38
UC3849DW	296-2525-5-ND	Secondary-Side Current-Mode Controller	24-SOIC	6.10	4.88	4.12
UC3851N	296-11305-5-ND	Prog. Off-Line PWM Controller	18-Dip	9.50	7.60	6.42
UC3852D	296-11306-5-ND	Power Factor Pre-Regulator	8-SOIC	3.83	3.06	2.38
UC3852N	296-11307-5-ND	Power Factor Pre-Regulator	8-Dip	3.83	3.06	2.38
UC3853D	296-11308-5-ND	Power Factor Pre-Regulator	8-SOIC	2.48	1.98	1.49
UC3853N	296-11309-5-ND	Power Factor Pre-Regulator	8-Dip	2.48	1.98	1.49
UC3854ADW	296-2526-5-ND	Power Factor Pre-Regulator	16-SOIC	3.04	2.43	1.89
UC3854AN	296-11310-5-ND	Power Factor Pre-Regulator	16-Dip	3.04	2.43	1.89
UC3854BDW	296-2527-5-ND	Power Factor Pre-Regulator	16-SOIC	3.04	2.43	1.89
UC3854BN	296-11311-5-ND	Power Factor Pre-Regulator	16-Dip	3.04	2.43	1.89
UC3854DW	296-11312-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UC3854N	296-11313-5-ND	Power Factor Pre-Regulator	16-Dip	2.59	2.07	1.61
UC3855ADW	296-2528-5-ND	Power Factor Pre-Regulator	20-SOIC	9.50	8.55	7.59
UC3855AN	296-11314-5-ND	Power Factor Pre-Regulator	20-Dip	9.50	8.55	7.59
UC3855BDW	296-2529-5-ND	Power Factor Pre-Regulator	20-SOIC	9.50	8.55	7.59
UC3855BN	296-11315-5-ND	Power Factor Pre-Regulator	20-Dip	9.50	8.55	7.59
UC3856DW	296-11316-5-ND	Current-Mode PWM Controller	16-SOIC	3.83	3.06	2.38
UC3856N	296-11317-5-ND	Current-Mode PWM Controller	16-Dip	3.83	3.06	2.38
UC3861DW	296-14332-5-ND	Resonant-Mode Power Supply Controller	16-SOIC	4.61	3.69	2.87
UC3861N	296-11318-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3862N	296-11319-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3863N	296-11320-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3864DW	296-11321-5-ND	Resonant-Mode Power Supply Controller	16-SOIC	4.61	3.69	2.87
UC3864N	296-11322-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3865N	296-11323-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3867N	296-11324-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3868N	296-11325-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3875DWP	296-11331-5-ND	Phase Shift Resonant Controller	28-SOIC	9.70	7.76	6.55
UC3875N	296-11332-5-ND	Phase Shift Resonant Controller	20-Dip	9.70	7.76	6.55
UC3876N	296-11333-5-ND	Phase Shift Resonant Controller	20-Dip	13.08	11.78	10.45
UC3879DW	296-11334-5-ND	Phase Shift Resonant Controller	20-SOIC	7.40	5.92	5.00
UC3879N	296-11335-5-ND	Phase Shift Resonant Controller	20-Dip	7.40	5.92	5.00
UC3886D	296-11336-5-ND	Current-Mode PWM Controller	16-SOIC	5.10	4.08	3.45
UC3886N	296-11337-5-ND	Current-Mode PWM Controller	16-Dip	5.10	4.08	3.45
UC3902D	296-11340-5-ND	Load Share Controller	8-SOIC	4.16	3.33	2.59

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UC3902N	296-11341-5-ND	Load Share Controller	8-Dip	4.16	3.33	2.59
UC3903N	296-11342-5-ND	Quad Supply/Line Monitor	18-Dip	4.73	3.78	2.94
UC3907DW	296-2530-5-ND	Load Share Controller	16-SOIC	4.73	3.78	2.94
UC3907N	296-11344-5-ND	Load Share Controller	16-Dip	4.73	3.78	2.94
UC3910N	296-11346-5-ND	4-Bit DAC and Voltage Monitor	16-Dip	5.70	4.56	3.85
UC28023DW	296-15060-5-ND	High Speed PWM Controller	16-SOIC	2.88	2.31	1.80
UC28023N	296-15061-5-ND	High Speed PWM Controller	16-Dip	2.88	2.31	1.80
UC28025DW	296-15062-5-ND	High Speed PWM Controller	16-SOIC	2.88	2.31	1.80
UC28025N	296-15063-5-ND	High Speed PWM Controller	16-Dip	2.88	2.31	1.80
UCC28C40D	296-13429-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.88	1.50	1.13
UCC28C40DGK	296-12570-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	1.88	1.50	1.13
UCC28C40P	296-12571-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.88	1.50	1.13
UCC28C41D	296-13430-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.88	1.50	1.13
UCC28C41DGK	296-12572-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	1.88	1.50	1.13
UCC28C41P	296-12573-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.88	1.50	1.13
UCC28C42D	296-13431-5-ND	UVLO 14.5/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.88	1.50	1.13
UCC28C42DGK	296-12291-5-ND	UVLO 14.5/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	1.88	1.50	1.13
UCC28C42P	296-13432-5-ND	UVLO 14.5/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.88	1.50	1.13
UCC28C43D	296-13433-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.88	1.50	1.13
UCC28C43DGK	296-12292-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	1.88	1.50	1.13
UCC28C43MDREP	296-22538-1-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller ***NEW!***	8-SOIC	5.06	4.05	3.15
UCC28C43MDREP	296-22538-2-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller ***NEW!***	8-SOIC	7087.50/2,500		
UCC28C43P	296-13434-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.88	1.50	1.13
UCC28C44D	296-13435-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.88	1.50	1.13
UCC28C44DGK	296-12574-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	1.88	1.50	1.13
UCC28C44P	296-12575-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.88	1.50	1.13
UCC28C45D	296-12576-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.88	1.50	1.13
UCC28C45DGK	296-12293-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	1.88	1.50	1.13
UCC28C45MDREP	296-21938-1-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	5.06	4.05	3.15
UCC28C45MDREP	296-21938-2-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	7087.50/2,500		
UCC28C45P	296-13436-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.88	1.50	1.13
UCC38C40D	296-13832-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-SOIC	1.75	1.40	1.05
UCC38C40DGK	296-13833-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-MSOP	1.75	1.40	1.05
UCC38C40P	296-13834-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-Dip	1.75	1.40	1.05
UCC38C41D	296-13835-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-SOIC	1.75	1.40	1.05
UCC38C41DGK	296-13836-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-MSOP	1.75	1.40	1.05
UCC38C41P	296-13837-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-Dip	1.75	1.40	1.05
UCC38C42D	296-13838-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-SOIC	1.75	1.40	1.05
UCC38C42DGK	296-13839-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-MSOP	1.75	1.40	1.05
UCC38C42P	296-13840-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-Dip	1.75	1.40	1.05
UCC38C43D	296-12253-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.75	1.40	1.05
UCC38C43DGK	296-13841-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-MSOP	1.75	1.40	1.05
UCC38C43P	296-13441-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.75	1.40	1.05
UCC38C44D	296-13842-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-SOIC	1.75	1.40	1.05
UCC38C44DGK	296-13843-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-MSOP	1.75	1.40	1.05
UCC38C44P	296-13442-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.75	1.40	1.05
UCC2580D-1	296-11374-5-ND	Single Ended Active Clamp/Reset PWM	16-SOIC	4.73	3.78	2.94
UCC38C45D	296-13844-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-SOIC	1.75	1.40	1.05
UCC38C45DGK	296-13845-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-MSOP	1.75	1.40	1.05
UCC38C45P	296-13846-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-Dip	1.75	1.40	1.05
UCC2540EVM-054	296-17270-ND	Evaluation Module for UCC2540	—	50.00	—	—
UCC2540PWP	296-17103-5-ND	High-Eff. Secondary Side Sync. Buck PWM Controller	20-HTSSOP	4.16	3.33	2.59
UCC2580D-2	296-11375-5-ND	Single End Active Clamp/Reset PWM	16-SOIC	4.73	3.78	2.94
UCC2580D-3	296-11376-5-ND	Single End Active Clamp/Reset PWM	16-SOIC	4.73	3.78	2.94
UCC2580D-4	296-11377-5-ND	Single End Active Clamp/Reset PWM	16-SOIC	4.73	3.78	2.94
UCC2580N-1	296-11378-5-ND	Single End Active Clamp/Reset PWM	16-Dip	4.73	3.78	2.94
UCC2580N-2	296-11671-5-ND	Single End Active Clamp/Reset PWM	16-Dip	4.73	3.78	2.94
UCC2580N-3	296-11672-5-ND	Single End Active Clamp/Reset PWM	16-Dip	4.73	3.78	2.94
UCC2580N-4	296-11673-5-ND	Single End Active Clamp/Reset PWM	16-Dip	4.73	3.78	2.94
UCC2581D	296-11379-5-ND	Micropower Voltage Mode PWM	14-SOIC	2.59	2.07	1.61
UCC2583D	296-12392-5-ND	Switch Mode Secondary Side Post Regulator	14-SOIC	4.61	3.69	2.87

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UCC2583N	296-12115-5-ND	Switch Mode Secondary Side Post Regulator	14-Dip	4.61	3.69	2.87
UCC2800D	296-11380-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.05	3.24	2.52
UCC2800N	296-11381-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	4.05	3.24	2.52
UCC2800QDREP	296-18186-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	5.76	4.61	3.89
UCC2800QDREP	296-18186-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	8927.50/2,500		
UCC2801D	296-11382-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.05	3.24	2.52
UCC2801MDREP	296-22534-1-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	5.56	4.45	3.46
UCC2801MDREP	296-22534-2-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	7780.00/2,500		
UCC2801N	296-11383-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	4.05	3.24	2.52
UCC2801QDREP	296-18187-1-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	5.16	4.13	3.49
UCC2801QDREP	296-18187-2-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	7997.50/2,500		
UCC2801QDRQ1	296-15685-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2801QDRQ1	296-15685-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2802D	296-11384-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.05	3.24	2.52
UCC2802MDREP	296-22535-1-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	2.25	1.80	1.40
UCC2802MDREP	296-22535-2-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	3150.00/2,500		
UCC2802N	296-11385-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	4.05	3.24	2.52
UCC2802QDREP	296-18188-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	5.16	4.13	3.49
UCC2802QDREP	296-18188-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	7997.50/2,500		
UCC2802QDRQ1	296-15686-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2802QDRQ1	296-15686-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2803D	296-11386-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.05	3.24	2.52
UCC2803MDREP	296-22536-1-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	7.20	5.76	4.86
UCC2803MDREP	296-22536-2-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	11160.00/2,500		
UCC2803N	296-11387-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	4.05	3.24	2.52
UCC2803QDREP	296-18189-1-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	5.51	4.41	3.43
UCC2803QDREP	296-18189-2-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	7717.50/2,500		
UCC2803QDRQ1	296-15687-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2803QDRQ1	296-15687-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2804D	296-11388-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.05	3.24	2.52
UCC2804N	296-11389-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	4.05	3.24	2.52
UCC2804QDREP	296-18190-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.90	3.92	3.31
UCC2804QDREP	296-18190-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	7595.00/2,500		
UCC2804QDRQ1	296-15688-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2804QDRQ1	296-15688-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2805D	296-11390-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.05	3.24	2.52
UCC2805N	296-11675-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	4.05	3.24	2.52
UCC2805QDREP	296-18191-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	5.16	4.13	3.49
UCC2805QDREP	296-18191-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	7997.50/2,500		
UCC2805QDRQ1	296-15689-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2805QDRQ1	296-15689-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2805PW	296-13532-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	4.16	3.33	2.59
UCC2806DW	296-11391-5-ND	Low Power, Dual Output, Current-Mode PWM	16-SOIC	9.80	7.84	6.62
UCC2806M	296-11676-5-ND	Low Power, Dual-Output, Current-Mode PWM	16-SSOP	9.80	7.84	6.62
UCC2806PW	296-12393-5-ND	Low Power, Dual Output, Current-Mode PWM Controller	16-TSSOP	9.80	7.84	6.62
UCC2807D-1	296-11393-5-ND	Programmable Duty Cycle PWM	8-SOIC	3.71	2.97	2.31
UCC2807D-2	296-2533-5-ND	Programmable Max-Duty PWM	8-SOIC	3.71	2.97	2.31
UCC2807D-3	296-11678-5-ND	Programmable Max-Duty PWM	8-SOIC	4.61	3.69	2.87
UCC2807N-2	296-11394-5-ND	Programmable Duty Cycle PWM	8-Dip	3.71	2.97	2.31
UCC2808AD-1	296-11395-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.04	2.43	1.89
UCC2808AD-2	296-11396-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.04	2.43	1.89
UCC2808AN-1	296-11397-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.04	2.43	1.89
UCC2808AN-2	296-11398-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.04	2.43	1.89
UCC2808APW-1	296-11679-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	3.04	2.43	1.89
UCC2808APW-2	296-11680-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	3.04	2.43	1.89
UCC2808AQDR-1Q1	296-17986-1-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.38	2.70	2.10
UCC2808AQDR-1Q1	296-17986-2-ND	LP Current-Mode Push/Pull PWM	8-SOIC	4725.00/2,500		
UCC2808AQDR-2EP	296-21293-1-ND	LP Current-Mode Push/Pull PWM	8-SOIC	4.14	3.32	2.58
UCC2808AQDR-2EP	296-21293-2-ND	LP Current-Mode Push/Pull PWM	8-SOIC	5795.00/2,500		
UCC2808AQDR-2Q1	296-19037-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.38	2.70	2.10
UCC2808AQDR1EP	296-18742-1-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.68	2.95	2.49
UCC2808AQDR1EP	296-18742-2-ND	LP Current-Mode Push/Pull PWM	8-SOIC	5705.00/2,500		
UCC2808D-1	296-2534-5-ND	Current-Mode Push/Pull PWM	8-SOIC	3.04	2.43	1.89
UCC2808D-2	296-2535-5-ND	Current-Mode Push/Pull PWM	8-SOIC	3.04	2.43	1.89
UCC2808N-1	296-11399-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.04	2.43	1.89
UCC2808N-2	296-11400-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.04	2.43	1.89
UCC2809D-1	296-11401-5-ND	Economy Primary Side Controller	8-SOIC	2.38	1.90	1.43
UCC2809D-2	296-11681-5-ND	Primary Side Controller	8-SOIC	2.38	1.90	1.43
UCC2809P-1	296-11402-5-ND	Economy Primary Side Controller	8-MSOP	2.38	1.90	1.43
UCC2809P-2	296-11403-5-ND	Economy Primary Side Controller	8-MSOP	2.38	1.90	1.43
UCC2810DW	296-2536-5-ND	Dual Ch. Sync. Current-Mode PWM	16-SOIC	6.80	5.44	4.59
UCC2810N	296-11404-5-ND	Dual Ch. Sync. Current-Mode PWM	16-Dip	6.80	5.44	4.59
UCC2813D-0	296-11682-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.93	2.34	1.82
UCC2813D-1	296-11405-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.93	2.34	1.82
UCC2813D-2	296-11406-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.93	2.34	1.82
UCC2813D-3	296-11407-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.93	2.34	1.82
UCC2813D-4	296-11408-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.93	2.34	1.82
UCC2813D-5	296-11409-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.93	2.34	1.82
UCC2813N-0	296-12055-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.93	2.34	1.82
UCC2813N-1	296-12056-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.93	2.34	1.82
UCC2813N-2	296-12057-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.93	2.34	1.82
UCC2813N-4	296-12058-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.93	2.34	1.82
UCC2813N-5	296-12059-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.93	2.34	1.82
UCC2813PW-0	296-12060-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.93	2.34	1.82
UCC2813PW-1	296-12061-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.93	2.34	1.82
UCC2813PW-2	296-12062-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.93	2.34	1.82
UCC2813PW-3	296-12063-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.93	2.34	1.82
UCC2813PW-4	296-12064-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.93	2.34	1.82
UCC2813PW-5	296-12065-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.93	2.34	1.82
UCC2813QDR-0Q1	296-22537-1-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	3.49	2.79	2.17
UCC2813QDR-0Q1	296-22537-2-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	4882.50/2,500		
UCC2813QDR-1Q1	296-19428-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2813QDR-1Q1	296-19428-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2813QDR-3Q1	296-17879-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2813QDR-3Q1	296-17879-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2813QPWR-3Q1	296-22002-1-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.49	2.79	2.17
UCC2813QPWR-3Q1	296-22002-2-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3952.00/2,000		
UCC2817AD	296-15954-5-ND	Power Factor Pre-Regulator	16-SOIC	2.81	2.25	1.75
UCC2817APW	296-15955-5-ND	Power Factor Pre-Regulator	16-TSSOP	2.81	2.25	1.75
UCC2817D	296-11410-5-ND	Power Factor Pre-Regulator	16-SOP	2.81	2.25	1.75
UCC2817DW	296-11411-5-ND	Power Factor Pre-Regulator	16-SOP	2.81	2.25	1.75
UCC2817PW	296-15161-5-ND	BiCMOS Power Factor Pre-Reg.	16-TSSOP	2.81	2.25	1.75
UCC2818AD	296-15956-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.81	2.25	1.75
UCC2818APW	296-15957-5-ND	BiCMOS Power Factor Pre-Reg.	16-TSSOP	2.81	2.25	1.75
UCC2818D	296-13428-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.81	2.25	1.75
UCC2818DW	296-11412-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.81	2.25	1.75
UCC2818PW	296-15162-5-ND	BiCMOS Power Factor Pre-Reg.	16-TSSOP	2.81	2.25	1.75
UCC2819AD	296-15958-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.81	2.25	1.75
UCC2819APW	296-15959-5-ND	BiCMOS Power Factor Pre-Reg.	16-TSSOP	2.81	2.25	1.75
UCC2819D	296-12537-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.81	2.25	1.75
UCC2819N	296-12538-5-ND	BiCMOS Power Factor Pre-Regulator	16-Dip	2.81	2.25	1.75
UCC2891D	296-15883-5-ND	PWM Controller Clamp	16-SOIC	3.38	2.70	2.10
UCC2891EVM	296-19042-ND	Evaluation Module for UCC2891	—	50.00	—	—
UCC2891PW	296-17240-ND	PWM Controller Clamp	16-TSSOP	2.48	1.98	1.54
UCC2892D	296-15884-5-ND	PWM Controller Clamp	16-SOIC	3.26	2.61	2.03
UCC2892PW	296-15885-5-ND	PWM Controller Clamp	16-TSSOP	2.48	1.98	1.54
UCC2893D	296-15886-5-ND	PWM Controller Clamp	16-SOIC	2.48	1.98	1.54
UCC2893PW	296-17241-ND	PWM Controller Clamp	16-TSSOP	2.48	1.98	1.54
UCC2894D	296-15887-5-ND	PWM Controller Clamp	16-SOIC	2.48	1.98	1.54
UCC2894PW	296-15888-5-ND	PWM Controller Clamp	16-TSSOP	2.48	1.98	1.54
UCC2895DW	296-2537-5-ND	BiCMOS Advanced Phase Shift PWM Controller	20-SOIC	8.66	7.80	6.92
UCC2895MDWREP	296-19800-1-ND	BiCMOS Advanced Phase Shift PWM Controller	20-SOIC	15.11	14.10	13.10
UCC2895MDWREP	296-19800-2-ND	BiCMOS Advanced Phase Shift PWM Controller	20-SOIC	24872.00/2,000		
UCC2895N	296-11418-5-ND	BiCMOS Advanced Phase Shift PWM Controller	20-Dip	8.66	7.80	6.92
UCC2895PW	296-11419-5-ND	BiCMOS Advanced Phase Shift PWM Controller	20-TSSOP	8.75	7.88	6.99
UCC2897PW	296-17003-5-ND	Adv. Current-Mode PWM Controller	20-TSSOP	2.48	1.98	1.54
UCC2897RTJT	296-19373-1-ND	Advanced Current-Mode Active Clamp PWM Controller	20-QFN	2.81	2.25	1.75
UCC2897RTJT	296-19373-2-ND	Advanced Current-Mode Active Clamp PWM Controller	20-QFN	415.75/250		
UCC2960D	296-11421-5-ND	Primary Side Startup Controller	8-SOIC	2.36	1.89	1.47
UCC2960P	296-11422-5-ND	Primary Side Startup Controller	8-Dip	2.36	1.89	1.47
UCC2961D	296-11423-5-ND	Adv. Primary Side Startup Controller	14-SOIC	2.70	2.16	1.68
UCC2975PW	296-13437-5-ND	Multi-Topology Piezoelectric Transformer Controller	8-TSSOP	5.36	4.29	3.62
UCC2976PW	296-12539-5-ND	3V-13.5V Multi-Topology Transformer Controller	8-TSSOP	5.36	4.29	3.62
UCC2977EVM	296-20627-ND	Eval. Module for UCC2977/3977	—	50.00	—	—
UCC2977PW	296-12540-5-ND	3V-13.5V Multi-Topology Transformer Controller	8-TSSOP	5.36	4.29	3.62
UCC3580D-1	296-11436-5-ND	Active Clamp/Reset PWM	16-SOIC	4.28	3.42	2.66
UCC3580D-2	296-11437-5-ND	Active Clamp/Reset PWM	16-SOIC	4.28	3.42	2.66
UCC3580D-3	296-11438-5-ND	Active Clamp/Reset PWM	16-SOIC	4.28	3.42	2.66
UCC3580D-4	296-11439-5-ND	Active Clamp/Reset PWM	16-SOIC	4.28	3.42	2.66
UCC3580EVM	296-13597-ND	Evaluation Module for UCC3580	—	101.00	—	—
UCC3580N-1	296-11440-5-ND	Active Clamp/Reset PWM	16-Dip	4.28	3.42	2.66
UCC3580N-2	296-11441-5-ND	Active Clamp/Reset PWM	16-Dip	4.28	3.42	2.66
UCC3580N-3	296-11442-5-ND	Active Clamp/Reset PWM	16-Dip	4.28	3.42	2.66
UCC3580N-4	296-11443-5-ND	Active Clamp/Reset PWM	16-SOP	4.28	3.42	2.66
UCC3581D	296-11444-5-ND	Micropower Voltage Mode PWM	14-SOIC	2.25	1.80	1.40
UCC3581N	296-11445-5-ND	Micropower Voltage Mode PWM	14-Dip	2.25	1.80	1.40
UCC3583D	296-11446-5-ND	Switch Mode Secondary Side Post Regulator	14-SOIC	3.94	3.15	2.45
UCC3583N	296-11447-5-ND	Switch Mode Secondary Side Post Regulator	14-Dip	3.94	3.15	2.45
UCC3626DW	296-11452-5-ND	Brushless DC Motor Controller	28-SOIC	10.16	9.15	8.12
UCC3626PW	296-11453-5-ND	Brushless DC Motor Controller	28-TSSOP	10.25	9.23	8.18
UCC3800D	296-11457-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.04	2.43	1.89
UCC3800N	296-11458-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.04	2.43	1.89
UCC3800PW	296-11459-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.15	2.52	1.96
UCC3801D	296-11460-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.04	2.43	1.89
UCC3801N	296-11461-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.04	2.43	1.89
UCC3801PW	296-11462-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.15	2.52	1.96
UCC3802D	296-11463-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.04	2.43	1.89
UCC3802N	296-11464-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.04	2.43	1.89
UCC3802PW	296-11465-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.15	2.52	1.96
UCC3803D	296-12195-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.04	2.43	1.89
UCC3803N	296-11466-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.04	2.43	1.89
UCC3803PW	296-11467-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.15	2.52	1.96
UCC3804D	296-11468-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.04	2.43	1.89
UCC3804N	296-11469-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.04	2.43	1.89
UCC3804PW	296-11470-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.15	2.52	1.96
UCC3805D	296-11471-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.04	2.43	1.89
UCC3805N	296-11472-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.04	2.43	1.89
UCC3805PW	296-11473-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.15	2.52	1.96
UCC3806DW	296-11474-5-ND	LP Dual Output Current-Mode PWM	16-SOIC	8.20	6.56	5.54
UCC3806N	296-11475-5-ND	LP Dual Output Current-Mode PWM	16-Dip	8.20	6.56	5.54
UCC3806Q	296-11476-5-ND	LP Dual Output Current-Mode PWM	20-PLCC	8.20	6.56	5.54
UCC3807D-1	296-2541-5-ND	Prog. Duty Cycle PWM Controller	8-SOP	3.38	2.70	2.10
UCC3807D-2	296-2542-5-ND	Prog. Duty Cycle PWM Controller	8-SOP	3.38	2.70	2.10
UCC3807D-3	296-2543-5-ND	Prog. Duty Cycle PWM Controller	8-SOP	3.38	2.70	2.10
UCC3807N-1	296-11477-5-ND	Prog. Duty Cycle PWM Controller	8-Dip	3.38	2.70	2.10
UCC3807N-2	296-11478-5-ND	Prog. Duty Cycle PWM Controller	8-Dip	3.38	2.70	2.10

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UCC3807N-3	296-11479-5-ND	Prog. Duty Cycle PWM Controller	8-Dip	3.38	2.70	2.10
UCC3808AD-1	296-11480-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.93	2.34	1.82
UCC3808AD-2	296-11481-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.93	2.34	1.82
UCC3808AN-1	296-13439-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.93	2.34	1.82
UCC3808AN-2	296-11482-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.93	2.34	1.82
UCC3808APW-1	296-11684-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	2.93	2.34	1.82
UCC3808APW-2	296-11685-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	2.93	2.34	1.82
UCC3808D-1	296-2544-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.93	2.34	1.82
UCC3808D-2	296-2545-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.93	2.34	1.82
UCC3808N-1	296-11483-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.93	2.34	1.82
UCC3808N-2	296-11484-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.93	2.34	1.82
UCC3809D-1	296-11485-5-ND	Economy Primary Side Controller	8-SOIC	2.13	1.70	1.28
UCC3809D-2	296-11486-5-ND	Economy Primary Side Controller	8-SOIC	2.13	1.70	1.28
UCC3809EVM	296-12294-ND	Evaluation Module for UCC3809	—	50.00	—	—
UCC3809N-1	296-11487-5-ND	Economy Primary Side Controller	8-Dip	2.13	1.70	1.28
UCC3809N-2	296-11488-5-ND	Economy Primary Side Controller	8-Dip	2.13	1.70	1.28
UCC3809P-1	296-11489-5-ND	Economy Primary Side Controller	8-MSOP	2.13	1.70	1.28
UCC3809P-2	296-13440-5-ND	Economy Primary Side Controller	8-MSOP	2.13	1.70	1.28
UCC3809PW-1	296-11490-5-ND	Economy Primary Side Controller	8-TSSOP	2.13	1.70	1.28
UCC3809PW-2	296-12395-5-ND	Economy Primary Side Controller	8-TSSOP	2.13	1.70	1.28
UCC3810DW	296-2546-5-ND	2-Channel Sync. Current-Mode PWM	16-SOIC	4.16	3.33	2.59
UCC3810N	296-11491-5-ND	2-Channel Sync. Current-Mode PWM	16-Dip	4.16	3.33	2.59
UCC3813D-0	296-11492-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.00	1.60	1.20
UCC3813D-1	296-11493-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.00	1.60	1.20
UCC3813D-2	296-11494-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.00	1.60	1.20
UCC3813D-3	296-11495-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.00	1.60	1.20
UCC3813D-4	296-11496-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.00	1.60	1.20
UCC3813D-5	296-11497-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.00	1.60	1.20
UCC3813N-0	296-11498-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.00	1.60	1.20
UCC3813N-1	296-11499-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.00	1.60	1.20
UCC3813N-2	296-11500-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.00	1.60	1.20
UCC3813N-3	296-11501-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.00	1.60	1.20
UCC3813N-4	296-11502-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.00	1.60	1.20
UCC3813N-5	296-11503-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.00	1.60	1.20
UCC3813PW-0	296-11504-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.00	1.60	1.20
UCC3813PW-1	296-11505-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.00	1.60	1.20
UCC3813PW-2	296-11506-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.00	1.60	1.20
UCC3813PW-3	296-11507-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.00	1.60	1.20
UCC3813PW-4	296-11508-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.00	1.60	1.20
UCC3813PW-5	296-11509-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.00	1.60	1.20
UCC3817AD	296-16717-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3817AN	296-16718-5-ND	Power Factor Pre-Regulator	16-Dip	2.59	2.07	1.61
UCC3817APW	296-16719-ND	Power Factor Pre-Regulator	16-TSSOP	2.59	2.07	1.61
UCC3817D	296-2547-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3817DW	296-11510-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3817EVM	296-11511-5-ND	Evaluation Module for UCC3817	—	50.00	—	—
UCC3817N	296-11512-5-ND	Power Factor Pre-Regulator	16-Dip	2.59	2.07	1.61
UCC3817PW	296-15166-5-ND	Power Factor Pre-Regulator	16-TSSOP	2.59	2.07	1.61
UCC3818AD	296-16720-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3818AN	296-16721-5-ND	Power Factor Pre-Regulator	16-Dip	2.59	2.07	1.61
UCC3818APW	296-16722-ND	Power Factor Pre-Regulator	16-TSSOP	2.59	2.07	1.61
UCC3818D	296-11513-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3818DW	296-11514-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3818N	296-11515-5-ND	Power Factor Pre-Regulator	16-Dip	2.59	2.07	1.61
UCC3818PW	296-15167-5-ND	Power Factor Pre-Regulator	16-TSSOP	2.59	2.07	1.61
UCC3819AD	296-16723-5-ND	Programmable Output Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3819AN	296-16724-5-ND	Programmable Output Power Factor Pre-Regulator	16-Dip	2.59	2.07	1.61
UCC3819APW	296-16725-ND	Programmable Output Power Factor Pre-Regulator	16-TSSOP	2.59	2.07	1.61
UCC3837D	296-2548-5-ND	N-FET Supply Controller	8-SOIC	4.39	3.51	2.73
UCC3839D	296-11516-5-ND	Secondary Side Average Current Mode Controller	14-SOIC	2.38	1.90	1.43
UCC3884D	296-2551-5-ND	Current-Mode PWM Controller	16-SOIC	3.60	2.88	2.24
UCC3884N	296-11530-5-ND	Current-Mode PWM Controller	16-Dip	3.60	2.88	2.24
UCC3888D	296-11531-5-ND	Off-Line Power Supply Controller	8-SOIC	1.50	1.20	.90
UCC3888N	296-11532-5-ND	Off-Line Power Supply Controller	8-Dip	1.50	1.20	.90
UCC3889D	296-11533-5-ND	Off-Line Power Supply Controller	8-SOIC	1.50	1.20	.90
UCC3889EVM	296-13598-ND	Evaluation Module for UCC3889	—	50.00	—	—
UCC3889N	296-11534-5-ND	Off-Line Power Supply Controller	8-Dip	1.50	1.20	.90
UCC3895DW	296-2552-5-ND	Phase Shift PWM Controller	20-SOIC	8.70	6.96	5.88
UCC3895EVM-001	296-20628-ND	Evaluation Module for UCC3895	—	101.00	—	—
UCC3895N	296-11538-5-ND	Phase Shift PWM Controller	20-Dip	8.70	6.96	5.88
UCC3895PW	296-11686-5-ND	Phase Shift PWM Controller	20-TSSOP	8.80	7.04	5.94
UCC3895Q	296-11539-5-ND	Phase Shift PWM Controller	20-PLCC	8.70	6.96	5.88
UCC3960D	296-11561-5-ND	Primary Side Startup Controller	8-SOIC	2.38	1.90	1.43
UCC3960P	296-11562-5-ND	Primary Side Startup Controller	8-Dip	2.38	1.90	1.43
UCC3961D	296-11563-5-ND	Adv. Primary Side Startup Controller	14-SOIC	2.36	1.89	1.47
UCC3961N	296-11564-5-ND	Adv. Primary Side Startup Controller	14-Dip	2.36	1.89	1.47
UCC25701D	296-11363-5-ND	Advanced Voltage-Mode PWM	14-SOIC	6.20	4.96	4.19
UCC25701N	296-11364-5-ND	Advanced Voltage-Mode PWM	14-Dip	6.20	4.96	4.19
UCC25701PW	296-11365-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	6.30	5.04	4.26
UCC25702D	296-12194-5-ND	Advanced Voltage-Mode PWM	14-SOIC	6.20	4.96	4.19
UCC25702N	296-11366-5-ND	Advanced Voltage-Mode PWM	14-Dip	6.20	4.96	4.19
UCC25702PW	296-11367-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	6.30	5.04	4.26
UCC25705D	296-11368-5-ND	High Speed Voltage-Mode PWM	8-SOIC	2.25	1.80	1.35
UCC25705DGK	296-12175-5-ND	High Speed Voltage-Mode PWM	8-MSOP	2.25	1.80	1.35
UCC25705P	296-11369-5-ND	High Speed Voltage-Mode PWM	8-Dip	2.25	1.80	1.35
UCC25706D	296-11370-5-ND	High Speed Voltage-Mode PWM	8-SOIC	2.25	1.80	1.35
UCC25706DGK	296-11371-5-ND	High Speed Voltage-Mode PWM	8-MSOP	2.25	1.80	1.35
UCC25706P	296-12114-5-ND	High Speed Voltage-Mode PWM	8-Dip	2.25	1.80	1.35
UCC28019DR	296-21936-1-ND	CCM PFC Controller	8-SOIC	1.88	1.50	1.13
UCC28019DR	296-21936-2-ND	CCM PFC Controller	8-SOIC	2400.00/2,500		
UCC28019EVM	296-23116-ND	Evaluation Module for UCC28019 ***NEW!***	—	50.00	—	—
UCC28019P	296-21937-5-ND	CCM PFC Controller	8-Dip	1.88	1.50	1.13
UCC28050D	296-13708-5-ND	Transition Mode PFC Controller	8-SOIC	1.63	1.30	.98
UCC28050P	296-13709-5-ND	Transition Mode PFC Controller	8-Dip	1.75	1.40	1.05
UCC28051D	296-15243-5-ND	Transition Mode PFC Controller	8-SOIC	1.63	1.30	.98
UCC28051EVM	296-19036-ND	Evaluation Module for UCC28051	—	50.00	—	—
UCC28051P	296-15224-5-ND	Transition Mode PFC Controller	8-Dip	1.75	1.40	1.05

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UCC28083D	296-13676-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.70	2.16	1.68
UCC28083P	296-13677-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.70	2.16	1.68
UCC28083PW	296-14333-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-TSSOP	2.70	2.16	1.68
UCC28084D	296-13678-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.70	2.16	1.68
UCC28084P	296-13679-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.70	2.16	1.68
UCC28084PW	296-14334-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-TSSOP	2.70	2.16	1.68
UCC28085D	296-13680-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.70	2.16	1.68
UCC28085P	296-13681-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.70	2.16	1.68
UCC28085PW	296-14335-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-TSSOP	2.70	2.16	1.68
UCC28086D	296-13682-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-SOIC	2.70	2.16	1.68
UCC28086P	296-13683-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-Dip	2.70	2.16	1.68
UCC28086PW	296-15690-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Comp.	8-TSSOP	2.70	2.16	1.68
UCC28089D	296-17461-5-ND	Primary-Side Push-Pull Oscillator	8-SOIC	1.63	1.30	.98
UCC28220D	296-15755-5-ND	Interleaved Dual PWM Controller	16-SOIC	3.60	2.88	2.24
UCC28220PW	296-15756-5-ND	Interleaved Dual PWM Controller	16-TSSOP	3.60	2.88	2.24
UCC28221D	296-15757-5-ND	Interleaved Dual PWM Controller	16-SOIC	3.71	2.97	2.31
UCC28221PW	296-15758-5-ND	Interleaved Dual PWM Controller	20-TSSOP	3.71	2.97	2.31
UCC28510DW	296-14218-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28510N	296-14219-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28511DW	296-14220-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28511N	296-14221-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28512DW	296-14222-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28512N	296-14223-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28513DW	296-14224-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28513N	296-14225-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28514DW	296-14226-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28514EVM	296-19040-ND	Evaluation Module for UCC28514	—	50.00	—	—
UCC28514N	296-14227-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28515DW	296-14228-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28515N	296-14229-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28516DW	296-14230-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28516N	296-14231-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28517DW	296-14232-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28517EVM	296-19041-ND	Evaluation Module for UCC28517	—	49.38	—	—
UCC28517N	296-14233-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28521DW	296-18040-5-ND	Advanced PFC/PWM Controller	20-SOIC	4.05	3.24	2.52
UCC28521EVM	296-21209-ND	Evaluation Module for UCC28521	—	50.00	—	—
UCC28528DW	296-18041-5-ND	Advanced PFC/PWM Controller	20-SOIC	4.05	3.24	2.52
UCC28528EVM	296-21210-ND	Evaluation Module for UCC28528	—	101.00	—	—
UCC28600D	296-19799-5-ND	Quasi-Resonant Flyback Green Mode Controller	8-SOIC	1.47	1.23	.98
UCC28600EVM	296-23117-ND	Evaluation Module for UCC28600 ***NEW!***	—	50.00	—	—
UCC29002D	296-13024-5-ND	Advanced Load Share Controller	8-SOIC	2.25	1.80	1.40
UCC29002DGK	296-13025-5-ND	Advanced Load Share Controller	8-MSOP	2.25	1.80	1.40
UCC29002P	296-13026-5-ND	Advanced Load Share Controller	8-Dip	2.25	1.80	1.40
UCC29421N	296-2538-5-ND	Multimode High-Freq. PWM Controller	16-Dip	5.06	4.05	3.15
UCC29421PW	296-12394-5-ND	Multimode High-Freq. Sync. Controller	16-TSSOP	5.18	4.14	3.22
UCC29422N	296-2539-5-ND	Multimode High-Freq. PWM Controller	16-Dip	4.84	3.87	3.01
UCC35701D	296-11425-5-ND	Advanced Voltage-Mode PWM	14-SOIC	5.90	4.72	3.99
UCC35701N	296-11426-5-ND	Advanced Voltage-Mode PWM	14-Dip	5.90	4.72	3.99
UCC35701PW	296-11427-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	6.00	4.80	4.05
UCC35702D	296-11428-5-ND	Advanced Voltage-Mode PWM	14-SOIC	5.90	4.72	3.99
UCC35702N	296-11429-5-ND	Advanced Voltage-Mode PWM	14-Dip	5.90	4.72	3.99
UCC35702PW	296-11430-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	6.00	4.80	4.05
UCC35705D	296-11431-5-ND	High Speed Voltage-Mode PWM	8-SOIC	1.88	1.50	1.13
UCC35705DGK	296-11683-5-ND	High Speed Voltage-Mode PWM	8-MSOP	1.88	1.50	1.13
UCC35705P	296-11432-5-ND	High Speed Voltage-Mode PWM	8-Dip	1.88	1.50	1.13
UCC35706D	296-11433-5-ND	High Speed Voltage-Mode PWM	8-SOIC	1.88	1.50	1.13
UCC35706DGK	296-11434-5-ND	High Speed Voltage-Mode PWM	8-MSOP	1.88	1.50	1.13
UCC35706P	296-15320-5-ND	High Speed Voltage-Mode PWM	8-Dip	1.88	1.50	1.13
UCC38050D	296-13710-5-ND	Transition Mode PFC Controller	8-SOIC	1.50	1.20	.90
UCC38050EVM	296-19044-ND	Evaluation Module for UCC38050	—	50.00	—	—
UCC38050P	296-13711-5-ND	Transition Mode PFC Controller	8-Dip	1.63	1.30	.98
UCC38051D	296-15225-5-ND	Transition Mode PFC Controller	8-SOIC	1.50	1.20	.90
UCC38051P	296-15226-5-ND	Transition Mode PFC Controller	8-Dip	1.63	1.30	.98
UCC38083D	296-13690-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.48	1.98	1.54
UCC38083P	296-13691-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.48	1.98	1.54
UCC38083PW	296-14336-5-ND	Current Mode Push-Pull PWM Controller with Slope Compensation	8-TSSOP	2.48	1.98	1.54
UCC38084D	296-13692-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.48	1.98	1.54
UCC38084P	296-13693-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.48	1.98	1.54
UCC38084PW	296-14337-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-TSSOP	2.48	1.98	1.54
UCC38085D	296-13694-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.48	1.98	1.54
UCC38085P	296-13695-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.48	1.98	1.54
UCC38085PW	296-14338-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-TSSOP	2.48	1.98	1.54
UCC38086D	296-13696-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.48	1.98	1.54
UCC38086P	296-13697-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.48	1.98	1.54
UCC38086PW	296-14339-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-TSSOP	2.48	1.98	1.54
UCC38500DW	296-11518-5-ND	BiCMOS Combined PFC/PWM Controller	20-SOIC	5.29	4.23	3.29

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC38500EVM	296-11519-ND	Evaluation Module for UCC38500	—	50.00	—	—
UCC38500N	296-11520-5-ND	BiCMOS Combined PFC/PWM Controller	20-Dip	5.29	4.23	3.29
UCC38501DW	296-11521-5-ND	BiCMOS Combined PFC/PWM Controller	20-SOIC	5.29	4.23	3.29
UCC38501N	296-11522-5-ND	BiCMOS Combined PFC/PWM Controller	20-Dip	5.29	4.23	3.29
UCC38502DW	296-12404-5-ND	BiCMOS Combined PFC/PWM Controller	20-SOIC	5.29	4.23	3.29
UCC38502N	296-11523-5-ND	BiCMOS Combined PFC/PWM Controller	20-Dip	5.29	4.23	3.29
UCC38503DW	296-12046-5-ND	BiCMOS Combined PFC/PWM Controller	20-SOIC	5.29	4.23	3.29
UCC38503N	296-11524-5-ND	BiCMOS Combined PFC/PWM Controller	20-Dip	5.29	4.23	3.29
UCC39002D	296-13027-5-ND	Advanced Load Share Controller	8-SOIC	2.38	1.90	1.43
UCC39002EVM	296-19045-ND	Evaluation Module for UCC39002	—	50.00	—	—
UCC39002P	296-13029-5-ND	Advanced Load Share Controller	8-Dip	2.38	1.90	1.43
UCC39421N	296-11545-5-ND	Multimode Hi-Freq. PWM Controller	16-Dip	5.06	4.05	3.15
UCC39421PW	296-2553-5-ND	Multimode Hi-Freq. PWM Controller	16-TSSOP	5.06	4.05	3.15
UCC39422N	296-11546-5-ND	Multimode Hi-Freq. PWM Controller	20-Dip	5.06	4.05	3.15
UCC39422PW	296-2554-5-ND	Multimode Hi-Freq. PWM Controller	20-TSSOP	5.06	4.05	3.15
UCD8220PWP	296-18592-5-ND	Digitally Managed Push-Pull Analog PWM Controller	16-HTSSOP	3.60	2.88	2.24

Schottky Diode Arrays

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UC2610N	296-11161-5-ND	Dual Schottky Diode Bridge	8-Dip	5.60	4.48	3.78
UC3610DW	296-11230-5-ND	Dual Schottky Diode Bridge	16-SOIC	5.29	4.23	3.29
UC3610N	296-11231-5-ND	Dual Schottky Diode Bridge	8-Dip	5.29	4.23	3.29
UC3611DW	296-11233-5-ND	Quad Schottky Diode Array	16-SOIC	4.39	3.51	2.73
UC3611N	296-11234-5-ND	Quad Schottky Diode Array	8-Dip	4.39	3.51	2.73

Voltage References

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM285D-1-2	296-9521-5-ND	1.2V Micropower Voltage Reference	8-SOIC	.80	.60	.45
LM285D-2-5	296-9522-5-ND	2.5V Micropower Voltage Reference	8-SOIC	.80	.60	.45
LM285DR-2-5	296-14592-1-ND	2.5V Micropower Voltage Reference	8-SOIC	.48	.37	.28
LM285DR-2-5	296-14592-2-ND	2.5V Micropower Voltage Reference	8-SOIC	392.50/2,500		
LM285LP-1-2	296-9523-5-ND	1.2V Micropower Voltage Reference	TO-92	.64	.48	.36
LM285LP-2-5	296-9524-5-ND	2.5V Micropower Voltage Reference	TO-92	.64	.48	.36
LM336BD-2-5	296-9547-5-ND	2.5V Precision Voltage Reference	8-SOIC	.88	.66	.50
LM336BLP-2-5	296-9548-5-ND	2.5V Precision Voltage Reference	TO-92	.88	.66	.50
LM336D-2-5	296-9549-5-ND	2.5V Precision Voltage Reference	8-SOIC	.88	.66	.50
LM385BD-1-2	296-9556-5-ND	1.2V Micropower Voltage Reference	8-SOIC	.80	.60	.45
LM385BD-2-5	296-9557-5-ND	2.5V Micropower Voltage Reference	8-SOIC	.80	.60	.45
LM385BDR-1-2	296-14603-1-ND	2.5V Micropower Voltage Reference	8-SOIC	.80	.60	.45
LM385BDR-1-2	296-14603-2-ND	2.5V Micropower Voltage Reference	8-SOIC	650.00/2,500		
LM385BLP-1-2	296-9558-5-ND	1.2V Micropower Voltage Reference	TO-92	.80	.60	.45
LM385BLP-2-5	296-9559-5-ND	2.5V Micropower Voltage Reference	TO-92	.80	.60	.45
LM385BPWR-1-2	296-13073-1-ND	1.2V Micropower Voltage Reference	8-TSSOP	.80	.60	.45
LM385BPWR-1-2	296-13073-2-ND	1.2V Micropower Voltage Reference	8-TSSOP	532.00/2,000		
LM385BPWR-2-5	296-13074-1-ND	2.5V Micropower Voltage Reference	8-TSSOP	.80	.60	.45
LM385BPWR-2-5	296-13074-2-ND	2.5V Micropower Voltage Reference	8-TSSOP	532.00/2,000		
LM385D-1-2	296-9560-5-ND	1.2V Micropower Voltage Reference	8-SOIC	.56	.42	.32
LM385D-2-5	296-9561-5-ND	2.5V Micropower Voltage Reference	8-SOIC	.56	.42	.32
LM385LP-1-2	296-9562-5-ND	1.2V Micropower Voltage Reference	TO-92	.56	.42	.32
LM385LP-2-5	296-9563-5-ND	2.5V Micropower Voltage Reference	TO-92	.56	.42	.32
LM385PWR-1-2	296-13075-1-ND	1.2V Micropower Voltage Reference	8-TSSOP	.56	.42	.32
LM385PWR-1-2	296-13075-2-ND	1.2V Micropower Voltage Reference	8-TSSOP	372.00/2,000		
LM385PWR-2-5	296-13076-1-ND	2.5V Micropower Voltage Reference	8-TSSOP	.56	.42	.32
LM385PWR-2-5	296-13076-2-ND	2.5V Micropower Voltage Reference	8-TSSOP	372.00/2,000		
LM4040A10IDBZR	296-20855-1-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23	1.93	1.54	1.16
LM4040A10IDBZR	296-20855-2-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23	2958.00/3,000		
LM4040A10IDCKR	296-20856-1-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	1.93	1.54	1.16
LM4040A10IDCKR	296-20856-2-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	2958.00/3,000		
LM4040A20IDBZR	296-20857-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23	1.93	1.54	1.16
LM4040A20IDBZR	296-20857-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23	2958.00/3,000		
LM4040A20IDCKR	296-20858-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SC70-5	1.93	1.54	1.16
LM4040A20IDCKR	296-20858-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SC70-5	2958.00/3,000		
LM4040A25IDBZR	296-20859-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	1.93	1.54	1.16
LM4040A25IDBZR	296-20859-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	2958.00/3,000		
LM4040A25IDCKR	296-20860-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	1.93	1.54	1.16
LM4040A25IDCKR	296-20860-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	2958.00/3,000		
LM4040A30IDBZR	296-20861-1-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23	1.93	1.54	1.16
LM4040A30IDBZR	296-20861-2-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23	2958.00/3,000		
LM4040A30IDCKR	296-20862-1-ND	3V Precision Micropower Shunt Voltage Reference	SC70-5	1.93	1.54	1.16
LM4040A30IDCKR	296-20862-2-ND	3V Precision Micropower Shunt Voltage Reference	SC70-5	2958.00/3,000		
LM4040A41IDBZR	296-20863-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23	1.93	1.54	1.16
LM4040A41IDBZR	296-20863-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23	2958.00/3,000		
LM4040A41IDCKR	296-20864-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	1.93	1.54	1.16
LM4040A41IDCKR	296-20864-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	2958.00/3,000		
LM4040A50IDBZR	296-20865-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23	1.93	1.54	1.16
LM4040A50IDBZR	296-20865-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23	2958.00/3,000		
LM4040A50IDCKR	296-20866-1-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	1.93	1.54	1.16
LM4040A50IDCKR	296-20866-2-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	2958.00/3,000		
LM4040A82IDBZR	296-20867-1-ND	8.192V Precision Micropower Shunt Voltage Reference	SOT-23	1.93	1.54	1.16
LM4040A82IDBZR	296-20867-2-ND	8.192V Precision Micropower Shunt Voltage Reference	SOT-23	2958.00/3,000		
LM4040A82IDCKR	296-20868-1-ND	8.192V Precision Micropower Shunt Voltage Reference	SC70-5	1.93	1.54	1.16
LM4040A82IDCKR	296-20868-2-ND	8.192V Precision Micropower Shunt Voltage Reference	SC70-5	2958.00/3,000		
LM4040B10IDBZR	296-20869-1-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23	1.48	1.18	.89
LM4040B10IDBZR	296-20869-2-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23	2265.00/3,000		
LM4040B10IDCKR	296-19723-1-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	1.48	1.18	.89
LM4040B10IDCKR	296-19723-2-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	2265.00/3,000		
LM4040B20IDBZR	296-20870-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23	1.48	1.18	.89
LM4040B20IDBZR	296-20870-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23	2265.00/3,000		
LM4040B20IDCKR	296-20871-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SC70-5	1.48	1.18	.89
LM4040B20IDCKR	296-20871-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SC70-5	2265.00/3,000		
LM4040B25IDBZR	296-20872-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	1.48	1.18	.89
LM4040B25IDBZR	296-20872-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	2265.00/3,000		
LM4040B25IDCKR	296-20873-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	1.48	1.18	.89
LM4040B25IDCKR	296-20873-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	2265.00/3,000		
LM4040B30IDBZR	296-20874-1-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23	1.48	1.18	.89
LM4040B30IDBZR	296-20874-2-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23	2265.00/3,000		
LM4040B30IDCKR	296-20875-1-ND	3V Precision Micropower Shunt Voltage Reference	SC70-5	1.48	1.18	.89
LM4040B30IDCKR	296-20875-2-ND	3V Precision Micropower Shunt Voltage Reference	SC70-5	2265.00/3,000		
LM4040B41IDBZR	296-20876-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23	1.48	1.18	.89
LM4040B41IDBZR	296-20876-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23	2265.00/3,000		
LM4040B41IDCKR	296-20877-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	1.48	1.18	.89
LM4040B41IDCKR	296-20877-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	2265.00/3,000		
LM4040B50IDBZR	296-20878-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23	1.48	1.18	.89
LM4040B50IDBZR	296-20878-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23	2265.00/3,000		
LM4040B50IDCKR	296-20879-1-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	1.48	1.18	.89
LM4040B50IDCKR	296-20879-2-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	2265.00/3,000		
LM4040B82IDBZR	296-20880-1-ND	8.192V Precision Micropower Shunt Voltage Reference	SOT-23	1.48	1.18	.89
LM4040B82IDBZR	296-20880-2-ND	8.192V Precision Micropower Shunt Voltage Reference	SOT-23	2265.00/3,000		
LM4040B82IDCKR	296-20881-1-ND	8.192V Precision Micropower Shunt Voltage Reference	SC70-5	1.48	1.18	.89
LM4040B82IDCKR	296-20881-2-ND	8.192V Precision Micropower Shunt Voltage Reference	SC70-5	2265.00/3,000		
LM4040C10IDBZR	296-20882-1-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23	.92	.69	.52
LM4040C10IDBZR	296-20882-2-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23	897.00/3,000		
LM4040C10IDCKR	296-20883-1-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	.75	.63	.50
LM4040C10IDCKR	296-20883-2-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	975.00/3,000		
LM4040C20IDBZR	296-20884-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23	.92	.69	.52
LM4040C20IDBZR	296-20884-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23	897.00/3,000		
LM4040C20IDCKR	296-20885-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SC70-5	.75	.63	.50
LM4040C20IDCKR	296-20885-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SC70-5	975.00/3,000		
LM4040C20ILPR	296-21579-1-ND	2.048V Precision Micropower Shunt Voltage Reference	TO-92	.92	.69	.52
LM4040C20ILPR	296-21579-3-ND	2.048V Precision Micropower Shunt Voltage Reference	TO-92	612.00/2,000		
LM4040C20QDBZR	296-20886-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23	1.05	.88	.70
LM4040C20QDBZR	296-20886-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23	1365.00/3,000		
LM4040C25IDBZR	296-17937-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	.92	.69	.52
LM4040C25IDBZR	296-17937-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	897.00/3,000		
LM4040C25IDCKR	296-17938-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	.75	.63	.50
LM4040C25IDCKR	296-17938-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	975.00/3,000		
LM4040C25QDBZR	296-17939-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	1.05	.88	.70
LM4040C25QDBZR	296-17939-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	1365.00/3,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM4040C30IDBZR	296-20887-1-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23	.92	.69	.52
LM4040C30IDBZR	296-20887-2-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23	897.00/3,000		
LM4040C30IDCKR	296-20888-1-ND	3V Precision Micropower Shunt Voltage Reference	SC70-5	.75	.63	.50
LM4040C30IDCKR	296-20888-2-ND	3V Precision Micropower Shunt Voltage Reference	SC70-5	975.00/3,000		
LM4040C30ILPR	296-21580-1-ND	3V Precision Micropower Shunt Voltage Reference	TO-92	.92	.69	.52
LM4040C30ILPR	296-21580-3-ND	3V Precision Micropower Shunt Voltage Reference	TO-92	612.00/2,000		
LM4040C30QDBZR	296-20889-1-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23	1.05	.88	.70
LM4040C30QDBZR	296-20889-2-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23	1365.00/3,000		
LM4040C41IDBZR	296-20890-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23	.92	.69	.52
LM4040C41IDBZR	296-20890-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23	897.00/3,000		
LM4040C41IDCKR	296-20891-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	.75	.63	.50
LM4040C41IDCKR	296-20891-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SC70-5	975.00/3,000		
LM4040C41ILPR	296-22165-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	TO-92	.92	.69	.52
LM4040C41ILPR	296-22165-3-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	TO-92	612.00/2,000		
LM4040C50IDBZR	296-20892-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23	.92	.69	.52
LM4040C50IDBZR	296-20892-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23	897.00/3,000		
LM4040C50IDCKR	296-20893-1-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	.75	.63	.50
LM4040C50IDCKR	296-20893-2-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	975.00/3,000		
LM4040C50ILPR	296-21581-1-ND	5V Precision Micropower Shunt Voltage Reference	TO-92	.92	.69	.52
LM4040C50ILPR	296-21581-3-ND	5V Precision Micropower Shunt Voltage Reference	TO-92	612.00/2,000		
LM4040C50QDBZR	296-20894-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23	1.05	.88	.70
LM4040C50QDBZR	296-20894-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23	1365.00/3,000		
LM4040C82IDBZR	296-20895-1-ND	8.192V Precision Micropower Shunt Voltage Reference	SOT-23	.92	.69	.52
LM4040C82IDBZR	296-20895-2-ND	8.192V Precision Micropower Shunt Voltage Reference	SOT-23	897.00/3,000		
LM4040C82IDCKR	296-20896-1-ND	8.192V Precision Micropower Shunt Voltage Reference	SC70-5	.75	.63	.50
LM4040C82IDCKR	296-20896-2-ND	8.192V Precision Micropower Shunt Voltage Reference	SC70-5	975.00/3,000		
LM4040C82ILPR	296-22167-1-ND	8.192V Precision Micropower Shunt Voltage Reference ***NEW!***	TO-92	.92	.69	.52
LM4040C82ILPR	296-22167-3-ND	8.192V Precision Micropower Shunt Voltage Reference ***NEW!***	TO-92	612.00/2,000		
LM4040D10IDBZR	296-20897-1-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23	.72	.54	.41
LM4040D10IDBZR	296-20897-2-ND	10V Precision Micropower Shunt Voltage Reference	SOT-23	702.00/3,000		
LM4040D10IDCKR	296-20898-1-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	.80	.60	.45
LM4040D10IDCKR	296-20898-2-ND	10V Precision Micropower Shunt Voltage Reference	SC70-5	780.00/3,000		
LM4040D20IDBZR	296-20899-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23	.72	.54	.41
LM4040D20IDBZR	296-20899-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23	702.00/3,000		
LM4040D20IDCKR	296-20900-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SC70-5	.80	.60	.45
LM4040D20IDCKR	296-20900-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SC70-5	780.00/3,000		
LM4040D20ILPR	296-21582-1-ND	2.048V Precision Micropower Shunt Voltage Reference	TO-92	.72	.54	.41
LM4040D20ILPR	296-21582-3-ND	2.048V Precision Micropower Shunt Voltage Reference	TO-92	478.00/2,000		
LM4040D20QDBZR	296-20901-1-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23	.81	.68	.54
LM4040D20QDBZR	296-20901-2-ND	2.048V Precision Micropower Shunt Voltage Reference	SOT-23	1053.00/3,000		
LM4040D25IDBZR	296-17940-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	.72	.54	.41
LM4040D25IDBZR	296-17940-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	702.00/3,000		
LM4040D25IDCKR	296-17941-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	.80	.60	.45
LM4040D25IDCKR	296-17941-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	780.00/3,000		
LM4040D25QDBZR	296-17942-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	.81	.68	.54
LM4040D25QDBZR	296-17942-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	1053.00/3,000		
LM4040D30IDBZR	296-19437-1-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23	.72	.54	.41
LM4040D30IDBZR	296-19437-2-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23	702.00/3,000		
LM4040D30IDCKR	296-20902-1-ND	3V Precision Micropower Shunt Voltage Reference	SC70-5	.80	.60	.45
LM4040D30IDCKR	296-20902-2-ND	3V Precision Micropower Shunt Voltage Reference	SC70-5	780.00/3,000		
LM4040D30ILPR	296-21583-1-ND	3V Precision Micropower Shunt Voltage Reference	TO-92	.72	.54	.41
LM4040D30ILPR	296-21583-3-ND	3V Precision Micropower Shunt Voltage Reference	TO-92	478.00/2,000		
LM4040D30QDBZR	296-20903-1-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23	.81	.68	.54
LM4040D30QDBZR	296-20903-2-ND	3V Precision Micropower Shunt Voltage Reference	SOT-23	1053.00/3,000		
LM4040D41IDBZR	296-20904-1-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23	.72	.54	.41
LM4040D41IDBZR	296-20904-2-ND	4.096V Precision Micropower Shunt Voltage Reference	SOT-23	702.00/3,000		
LM4040D41ILPR	296-22169-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	TO-92	.72	.54	.41
LM4040D41ILPR	296-22169-3-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	TO-92	478.00/2,000		
LM4040D50IDBZR	296-20905-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23	.72	.54	.41
LM4040D50IDBZR	296-20905-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23	702.00/3,000		
LM4040D50IDCKR	296-20906-1-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	.80	.60	.45
LM4040D50IDCKR	296-20906-2-ND	5V Precision Micropower Shunt Voltage Reference	SC70-5	780.00/3,000		
LM4040D50ILPR	296-21584-1-ND	5V Precision Micropower Shunt Voltage Reference	TO-92	.72	.54	.41
LM4040D50ILPR	296-21584-3-ND	5V Precision Micropower Shunt Voltage Reference	TO-92	478.00/2,000		
LM4040D50QDBZR	296-20907-1-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23	.81	.68	.54
LM4040D50QDBZR	296-20907-2-ND	5V Precision Micropower Shunt Voltage Reference	SOT-23	1053.00/3,000		
LM4040D82IDBZR	296-20908-1-ND	8.192V Precision Micropower Shunt Voltage Reference	SOT-23	.72	.54	.41
LM4040D82IDBZR	296-20908-2-ND	8.192V Precision Micropower Shunt Voltage Reference	SOT-23	702.00/3,000		
LM4040D82IDCKR	296-20909-1-ND	8.192V Precision Micropower Shunt Voltage Reference	SC70-5	.80	.60	.45
LM4040D82IDCKR	296-20909-2-ND	8.192V Precision Micropower Shunt Voltage Reference	SC70-5	780.00/3,000		
LM4040D82ILPR	296-22171-1-ND	8.192V Precision Micropower Shunt Voltage Reference ***NEW!***	TO-92	.72	.54	.41
LM4040D82ILPR	296-22171-3-ND	8.192V Precision Micropower Shunt Voltage Reference ***NEW!***	TO-92	478.00/2,000		
LM4041A12IDBZR	296-20910-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23	1.50	1.20	.90
LM4041A12IDBZR	296-20910-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23	2304.00/3,000		
LM4041A12IDCKR	296-20911-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	1.55	1.24	.93
LM4041A12IDCKR	296-20911-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	2382.00/3,000		
LM4041BIDBZR	296-20914-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	1.23	1.03	.82
LM4041BIDBZR	296-20914-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	1599.00/3,000		
LM4041BIDCKR	296-20915-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	1.29	1.08	.86
LM4041BIDCKR	296-20915-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	1677.00/3,000		
LM4041B12IDBZR	296-20912-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23	1.23	1.03	.82
LM4041B12IDBZR	296-20912-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23	1599.00/3,000		
LM4041B12IDCKR	296-20913-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	1.29	1.08	.86
LM4041B12IDCKR	296-20913-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	1677.00/3,000		
LM4041C12IDBZR	296-20916-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23	.92	.69	.52
LM4041C12IDBZR	296-20916-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23	897.00/3,000		
LM4041C12IDCKR	296-20917-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	.75	.63	.50
LM4041C12IDCKR	296-20917-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	975.00/3,000		
LM4041C12ILPR	296-20747-1-ND	1.2V Precision Micropower Shunt Voltage Reference	TO-92	.92	.69	.52
LM4041C12ILPR	296-20747-3-ND	1.2V Precision Micropower Shunt Voltage Reference	TO-92	612.00/2,000		
LM4041C12QDBZR	296-20918-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23	1.05	.88	.70
LM4041C12QDBZR	296-20918-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23	1365.00/3,000		
LM4041CIDBZR	296-17943-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	.92	.69	.52
LM4041CIDBZR	296-17943-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	897.00/3,000		
LM4041CIDCKR	296-17944-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	.75	.63	.50
LM4041CIDCKR	296-17944-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	975.00/3,000		
LM4041CILPR	296-22173-1-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	TO-92	.92	.69	.52
LM4041CILPR	296-22173-3-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	TO-92	612.00/2,000		
LM4041CQDBZR	296-17945-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	1.05	.88	.70
LM4041CQDBZR	296-17945-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	1365.00/3,000		
LM4041D12IDBZR	296-20919-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23	.72	.54	.41
LM4041D12IDBZR	296-20919-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23	702.00/3,000		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM4041D12IDCKR	296-20920-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5	.80	.60	.45
LM4041D12IDCKR	296-20920-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SC70-5		780.00/3,000	
LM4041D12ILPR	296-20748-1-ND	1.2V Precision Micropower Shunt Voltage Reference	TO-92	.72	.54	.41
LM4041D12ILPR	296-20748-4-ND	1.2V Precision Micropower Shunt Voltage Reference	TO-92		478.00/2,000	
LM4041D12QDBZR	296-20921-1-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23	.81	.68	.54
LM4041D12QDBZR	296-20921-2-ND	1.2V Precision Micropower Shunt Voltage Reference	SOT-23		1053.00/3,000	
LM4041DIDBZR	296-17946-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	.72	.54	.41
LM4041DIDBZR	296-17946-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23		702.00/3,000	
LM4041DIDCKR	296-17947-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	.80	.60	.45
LM4041DIDCKR	296-17947-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5		780.00/3,000	
LM4041DILPR	296-22176-1-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	TO-92	.72	.54	.41
LM4041DILPR	296-22176-3-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	TO-92		478.00/2,000	
LM4041DQDBZR	296-17948-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	.81	.68	.54
LM4041DQDBZR	296-17948-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23		1053.00/3,000	
LT1004CD-1-2	296-9580-5-ND	1.2V Micropower Integrated Voltage Reference	8-SOIC	.84	.70	.56
LT1004CD-2-5	296-9581-5-ND	2.5V Micropower Integrated Voltage Reference	8-SOIC	.84	.70	.56
LT1004CDR-1-2	296-14610-1-ND	1.2V Micropower Integrated Voltage Reference	8-SOIC	.62	.47	.35
LT1004CDR-1-2	296-14610-2-ND	1.2V Micropower Integrated Voltage Reference	8-SOIC		500.00/2,500	
LT1004CLP-2-5	296-9583-5-ND	2.5V Micropower Integrated Voltage Reference	TO-92	.84	.70	.56
LT1004CPWR-1-2	296-13077-1-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP	.84	.70	.56
LT1004CPWR-1-2	296-13077-2-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP		744.00/2,000	
LT1004CPWR-2-5	296-13078-1-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	.84	.70	.56
LT1004CPWR-2-5	296-13078-2-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP		744.00/2,000	
LT1004ID-2-5	296-9584-5-ND	2.5V Micropower Integrated Voltage Reference	8-SOIC	1.38	1.10	.83
LT1004IPWR-1-2	296-13079-1-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP	1.38	1.10	.83
LT1004IPWR-1-2	296-13079-2-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP		1430.00/2,000	
LT1004IPWR-2-5	296-13080-1-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	1.38	1.10	.83
LT1004IPWR-2-5	296-13080-2-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP		1430.00/2,000	
LT1009CDR	296-14611-1-ND	2.5V Integrated Reference Circuit	8-SOIC	.83	.69	.55
LT1009CDR	296-14611-2-ND	2.5V Integrated Reference Circuit	8-SOIC		895.00/2,500	
LT1009CLP	296-9585-5-ND	2.5V Integrated Reference Circuit	TO-92	.83	.69	.55
LT1009CLPR	296-14612-1-ND	2.5V Integrated Reference Circuit	TO-92	.96	.80	.64
LT1009CLPR	296-14612-2-ND	2.5V Integrated Reference Circuit	TO-92		852.00/2,000	
LT1009CPWR	296-13081-1-ND	2.5V Integrated Reference Circuit	8-TSSOP	.96	.80	.64
LT1009CPWR	296-13081-2-ND	2.5V Integrated Reference Circuit	8-TSSOP		852.00/2,000	
LT1009ID	296-9586-5-ND	2.5V Integrated Reference Circuit	8-SOIC	1.05	.88	.70
LT1009IDR	296-14613-1-ND	2.5V Integrated Reference Circuit	8-SOIC	.88	.66	.50
LT1009IDR	296-14613-2-ND	2.5V Integrated Reference Circuit	8-SOIC		715.00/2,500	
LT1009ILP	296-9587-5-ND	2.5V Integrated Reference Circuit	TO-92	1.05	.88	.70
LT1009ILPR	296-14614-1-ND	2.5V Integrated Reference Circuit	TO-92	1.05	.88	.70
LT1009ILPR	296-14614-2-ND	2.5V Integrated Reference Circuit	TO-92		932.00/2,000	
LT1009IPWR	296-15734-1-ND	2.5V Integrated Reference Circuit	8-TSSOP	1.05	.88	.70
LT1009IPWR	296-15734-2-ND	2.5V Integrated Reference Circuit	8-TSSOP		932.00/2,000	
REF02AP	296-12732-5-ND	+5V Precision Voltage Reference	8-Dip	3.11	—	—
REF02AU	REF02AU-ND	+5V Voltage Reference	8-SOIC	3.11	—	—
REF02BP	REF02BP-ND	+5V Precision Voltage Reference	8-Dip	5.04	—	—
REF02BU	REF02BU-ND	+5V Voltage Reference	8-SOIC	4.39	—	—
REF102AP	REF102AP-ND	+10V Precision Voltage Reference	8-Dip	3.94	—	—
REF102AU	REF102AU-ND	+10V Precision Voltage Reference	8-SOIC	3.94	—	—
REF102BP	REF102BP-ND	+10V Precision Voltage Reference	8-Dip	6.50	—	—
REF102BU	296-17004-5-ND	+10V Precision Voltage Reference	8-SOIC	6.50	—	—
REF102CP	296-17005-5-ND	+10V Precision Voltage Reference	8-Dip	9.00	—	—
REF102CU	296-17006-5-ND	+10V Precision Voltage Reference	8-SOIC	9.00	—	—
REF200AU	REF200AU-ND	Dual Current Source/Current Sink	8-SOIC	5.20	—	—
REF1004C-1.2	REF1004C-1.2-ND	1.2V Micropower Voltage Reference	8-SOIC	2.79	—	—
REF1004C-2.5	REF1004C-2.5-ND	2.5V Micropower Voltage Reference	8-SOIC	2.79	—	—
REF1004I-1.2	REF1004I-1.2-ND	1.2V Micropower Voltage Reference	8-SOIC	5.45	—	—
REF1004I-2.5	REF1004I-2.5-ND	2.5V Micropower Voltage Reference	8-SOIC	5.45	—	—
REF2912AIDBZT	296-13480-1-ND	1.25V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.38	1.10	.83
REF2912AIDBZT	296-13480-2-ND	1.25V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23		192.50/250	
REF2920AIDBZT	296-13481-1-ND	2.048V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.38	1.10	.83
REF2920AIDBZT	296-13481-2-ND	2.048V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23		192.50/250	
REF2925AIDBZT	296-13482-1-ND	2.5V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.38	1.10	.83
REF2925AIDBZT	296-13482-2-ND	2.5V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23		192.50/250	
REF2930AIDBZT	296-13483-1-ND	3.0V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.38	1.10	.83
REF2930AIDBZT	296-13483-2-ND	3.0V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23		192.50/250	
REF2933AIDBZT	296-13484-1-ND	3.3V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.38	1.10	.83
REF2933AIDBZT	296-13484-2-ND	3.3V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23		192.50/250	
REF2940AIDBZT	296-13485-1-ND	4.096V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.38	1.10	.83
REF2940AIDBZT	296-13485-2-ND	4.096V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23		192.50/250	
REF3012AIDBZT	REF3012AIDBZTCT-ND	1.25V, Low Power CMOS Voltage Ref.	SOT-23	1.63	—	—
REF3012AIDBZT	REF3012AIDBZTTR-ND	1.25V, Low Power CMOS Voltage Ref.	SOT-23		227.50/250	
REF3020AIDBZT	REF3020AIDBZTCT-ND	2.0V, Low Power CMOS Voltage Ref.	SOT-23	1.63	—	—
REF3020AIDBZT	REF3020AIDBZTTR-ND	2.0V, Low Power CMOS Voltage Ref.	SOT-23		227.50/250	
REF3025AIDBZT	REF3025AIDBZTCT-ND	2.5V, Low Power CMOS Voltage Ref.	SOT-23	1.63	—	—
REF3025AIDBZT	REF3025AIDBZTTR-ND	2.5V, Low Power CMOS Voltage Ref.	SOT-23		227.50/250	
REF3030AIDBZT	296-18517-1-ND	3V, CMOS Voltage Reference	SOT-23	1.63	—	—
REF3030AIDBZT	296-18517-2-ND	3V, CMOS Voltage Reference	SOT-23		227.50/250	
REF3033AIDBZT	REF3033AIDBZTCT-ND	3.3V, Low Power CMOS Voltage Ref.	SOT-23	1.63	—	—
REF3033AIDBZT	REF3033AIDBZTTR-ND	3.3V, Low Power CMOS Voltage Ref.	SOT-23		227.50/250	
REF3040AIDBZT	REF3040AIDBZTCT-ND	4.0V, Low Power CMOS Voltage Ref.	SOT-23	1.63	—	—
REF3040AIDBZT	REF3040AIDBZTTR-ND	4.0V, Low Power CMOS Voltage Ref.	SOT-23		227.50/250	
REF3112AIDBZT	296-18518-1-ND	1.25V, CMOS Voltage Reference	SOT-23	2.81	—	—
REF3112AIDBZT	296-18518-2-ND	1.25V, CMOS Voltage Reference	SOT-23		415.75/250	
REF3120AIDBZT	296-17927-1-ND	2.048V, 100µA, Voltage Reference	SOT-23	2.81	—	—
REF3120AIDBZT	296-17927-2-ND	2.048V, 100µA, Voltage Reference	SOT-23		415.75/250	
REF3130AIDBZT	296-17098-1-ND	3V, 100µA Voltage Reference	SOT-23	2.81	—	—
REF3130AIDBZT	296-17098-2-ND	3V, 100µA Voltage Reference	SOT-23		703.25/250	
REF3133AIDBZT	296-18519-1-ND	3.3V, CMOS Voltage Reference	SOT-23	2.81	—	—
REF3133AIDBZT	296-18519-2-ND	3.3V, CMOS Voltage Reference	SOT-23		415.75/250	
REF3140AIDBZT	296-17234-1-ND	4.096V, Low Power CMOS Voltage Reference	SOT-23	2.81	—	—
REF3140AIDBZT	296-17234-2-ND	4.096V, Low Power CMOS Voltage Reference	SOT-23		415.75/250	
REF3212AIDBVT	296-18225-1-ND	1.25V LDO Voltage Reference	SOT-23-6	4.28	3.42	2.66
REF3212AIDBVT	296-18225-2-ND	1.25V LDO Voltage Reference	SOT-23-6		631.75/250	
REF3212AMDBVREP	296-22196-1-ND	1.25V LDO Volt. Reference ***NEW!***	SOT-23-6	5.78	4.63	3.91
REF3212AMDBVREP	296-22196-2-ND	1.25V LDO Volt. Reference ***NEW!***	SOT-23-6		10752.00/3,000	
REF3220AIDBVT	296-18226-1-ND	2.048V LDO Voltage Reference	SOT-23-6	4.28	3.42	2.66
REF3220AIDBVT	296-18226-2-ND	2.048V LDO Voltage Reference	SOT-23-6		631.75/250	
REF3220AMDBVREP	296-22197-1-ND	2.048V LDO Volt. Reference ***NEW!***	SOT-23-6	6.80	5.44	4.59
REF3220AMDBVREP	296-22197-2-ND	2.048V LDO Volt. Reference ***NEW!***	SOT-23-6		12648.00/3,000	
REF3225AIDBVT	296-18227-1-ND	2.5V LDO Voltage Reference	SOT-23-6	4.28	3.42	2.66
REF3225AIDBVT	296-18227-2-ND	2.5V LDO Voltage Reference	SOT-23-6		631.75/250	
REF3225AMDBVREP	296-22198-1-ND	2.5V LDO Volt. Reference ***NEW!***	SOT-23-6	5.78	4.63	3.91
REF3225AMDBVREP	296-22198-2-ND	2.5V LDO Volt. Reference ***NEW!***	SOT-23-6		10752.00/3,000	
REF3230AIDBVT	296-18228-1-ND	3V LDO Voltage Reference	SOT-23-6	4.28	3.42	2.66
REF3230AIDBVT	296-18228-2-ND	3V LDO Voltage Reference	SOT-23-6		631.75/250	
REF3230AMDBVREP	296-22199-1-ND	3V LDO Voltage Reference ***NEW!***	SOT-23-6	5.78	4.63	3.91
REF3230AMDBVREP	296-22199-2-ND	3V LDO Voltage Reference ***NEW!***	SOT-23-6		10752.00/3,000	
REF3233AIDBVT	296-18229-1-ND	3.3V LDO Voltage Reference	SOT-23-6	4.28	3.42	2.66
REF3233AIDBVT	296-18229-2-ND	3.3V LDO Voltage Reference	SOT-23-6		631.75/250	
REF3233AMDBVREP	296-22200-1-ND	3.3V LDO Voltage Reference ***NEW!***	SOT-23-6	6.80	5.44	4.59
REF3233AMDBVREP	296-22200-2-ND	3.3V LDO Voltage Reference ***NEW!***	SOT-23-6		12648.00/3,000	
REF3240AIDBVT	296-18230-1-ND	4.096V LDO Voltage Reference	SOT-23-6	4.28	3.42	2.66
REF3240AIDBVT	296-18230-2-ND	4.096V LDO Voltage Reference	SOT-23-6		631.75/250	
REF3240AMDBVREP	296-21591-1-ND	4.096V LDO Voltage Reference	SOT-23-6	5.78	4.63	3.91
REF3240AMDBVREP	296-21591-2-ND	4.096V LDO Voltage Reference	SOT-23-6		10752.00/3,000	
REF3312AIDBZT	296-22635-1-ND	1.25V, Low Power, Precision LDO Voltage Reference ***NEW!***	SOT-23	2.38	1.90	1.43
REF3312AIDBZT	296-22635-2-ND	1.25V, Low Power, Precision LDO Voltage Reference ***NEW!***	SOT-23		332.50/250	
REF3312AIDCKR	296-22636-1-ND	1.25V, Low Power, Precision LDO Voltage Reference ***NEW!***	SC70	2.13	1.70	1.28
REF3312AIDCKR	296-22636-2-ND	1.25V, Low Power, Precision LDO Voltage Reference ***NEW!***	SC70		3264.00/3,000	
REF3318AIDBZT	296-22637-1-ND	1.8V, Low Power, Precision LDO Voltage Reference ***NEW!***	SOT-23	2.38	1.90	1.43
REF3318AIDBZT	296-22637-2-ND	1.8V, Low Power, Precision LDO Voltage Reference ***NEW!***	SOT-23		332.50/250	
REF3318AIDCKT	296-22638-1-ND	1.8V, Low Power, Precision LDO Voltage Reference ***NEW!***	SC70	2.38	1.90	1.43
REF3318AIDCKT	296-22638-2-ND	1.8V, Low Power, Precision LDO Voltage Reference ***NEW!***	SC70		332.50/250	
REF3320AIDBZT	296-22639-1-ND	2.048V, Low Power, Precision LDO Voltage Reference ***NEW!***	SOT-23	2.38	1.90	1.43
REF3320AIDBZT	296-22639-2-ND	2.048V, Low Power, Precision LDO Voltage Reference ***NEW!***	SOT-23		332.50/250	
REF3320AIDCKT	296-22640-1-ND	2.048V, Low Power, Precision LDO Voltage Reference ***NEW!***	SC70	2.38	1.90	1.43
REF3320AIDCKT	296-22640-2-ND	2.048V, Low Power, Precision LDO Voltage Reference ***NEW!***	SC70		332.50/250	
REF3325AIDBZT	296-22641-1-ND	2.5V, Low Power, Precision LDO Voltage Reference ***NEW!***	SOT-23	2.38	1.90	1.43
REF3325AIDBZT	296-22641-2-ND	2.5V, Low Power, Precision LDO Voltage Reference ***NEW!***	SOT-23		332.50/250	
REF3325AIDCKT	296-22642-1-ND	2.5V, Low Power, Precision LDO Voltage Reference ***NEW!***	SC70	2.38	1.90	1.43
REF3325AIDCKT	296-22642-2-ND	2.5V, Low Power, Precision LDO Voltage Reference ***NEW!***	SC70		332.50/250	
REF3330AIDBZT	296-22643-1-ND	3V, Low Power, Precision LDO Voltage Reference ***NEW!***	SOT-23	2.38	1.90	1.43
REF3330AIDBZT	296-22643-2-ND	3V, Low Power, Precision LDO Voltage Reference ***NEW!***	SOT-23		332.50/250	
REF3330AIDCKT	296-22644-1-ND	3V, Low Power, Precision LDO Voltage Reference ***NEW!***	SC70	2.38	1.90	1.43
REF3330AIDCKT	296-22644-2-ND	3V, Low Power, Precision LDO Voltage Reference ***NEW!***	SC70		332.50/250	
REF3333AIDBZR	296-22645-1-ND	3.3V, Low Power, Precision LDO Voltage Reference ***NEW!***	SOT-23	2.13	1.70	1.28
REF3333AIDBZR	296-22645-2-ND	3.3V, Low Power, Precision LDO Voltage Reference ***NEW!***	SOT-23		3264.00/3,000	

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
REF3333AIDCKT	296-22646-1-ND	3.3V, Low Power, Precision LDO Voltage Reference ***NEW!***	SC70	2.38	1.90	1.43
REF3333AIDCKT	296-22646-2-ND	3.3V, Low Power, Precision LDO Voltage Reference ***NEW!***	SC70	332.50/250		
REF5020AID	296-22201-5-ND	2.048V, Low Noise, Very Low Drift, Precision Volt. Reference ***NEW!***	8-SOIC	4.16	3.33	2.59
REF5020ID	296-22202-5-ND	2.048V, Low Noise, Very Low Drift, Precision Volt. Reference ***NEW!***	8-SOIC	7.00	5.60	4.73
REF5025AID	296-22203-5-ND	2.5V, Low Noise, Very Low Drift, Precision Volt. Reference ***NEW!***	8-SOIC	4.16	3.33	2.59
REF5025ID	296-22204-5-ND	2.5V, Low Noise, Very Low Drift, Precision Volt. Reference ***NEW!***	8-SOIC	7.00	5.60	4.73
REF5030AID	296-22205-5-ND	3V, Low Noise, Very Low Drift, Precision Volt. Reference ***NEW!***	8-SOIC	4.16	3.33	2.59
REF5030ID	296-22206-5-ND	3V, Low Noise, Very Low Drift, Precision Volt. Reference ***NEW!***	8-SOIC	7.00	5.60	4.73
REF5040AID	296-22207-5-ND	4.096V, Low Noise, Very Low Drift, Precision Volt. Reference ***NEW!***	8-SOIC	4.16	3.33	2.59
REF5040ID	296-22208-5-ND	4.096V, Low Noise, Very Low Drift, Precision Volt. Reference ***NEW!***	8-SOIC	7.00	5.60	4.73
REF5045AID	296-22209-5-ND	4.5V, Low Noise, Very Low Drift, Precision Volt. Reference ***NEW!***	8-SOIC	4.16	3.33	2.59
REF5045ID	296-22210-5-ND	4.5V, Low Noise, Very Low Drift, Precision Volt. Reference ***NEW!***	8-SOIC	7.00	5.60	4.73
REF5050AID	296-22211-5-ND	5V, Low Noise, Very Low Drift, Precision Volt. Reference ***NEW!***	8-SOIC	4.16	3.33	2.59
REF5050ID	296-22212-5-ND	5V, Low Noise, Very Low Drift, Precision Volt. Reference ***NEW!***	8-SOIC	7.00	5.60	4.73
TL1431CD	296-10129-5-ND	Prec. Programmable Shunt Reference	8-SOIC	.80	.60	.45
TL1431CDR	296-10129-1-ND	Prec. Programmable Shunt Reference	8-SOIC	.80	.60	.45
TL1431CDR	296-10129-2-ND	Prec. Programmable Shunt Reference	8-SOIC	650.00/2,500		
TL1431CLPR	296-10130-1-ND	Prec. Prog. Shunt Reference	TO-92	.80	.60	.45
TL1431CLPR	296-10130-2-ND	Prec. Prog. Shunt Reference	TO-92	532.00/2,000		
TL1431CPWR	296-12607-1-ND	Prec. Prog. Shunt Reference	8-TSSOP	.80	.60	.45
TL1431CPWR	296-12607-2-ND	Prec. Prog. Shunt Reference	8-TSSOP	532.00/2,000		
TL1431MDREP	296-21550-1-ND	Prec. Programmable Shunt Reference	8-SOIC	2.30	1.84	1.38
TL1431MDREP	296-21550-2-ND	Prec. Programmable Shunt Reference	8-SOIC	2945.00/2,500		
TL1431QD	296-10131-5-ND	Prec. Programmable Shunt Reference	8-SOIC	.90	.75	.60
TL1431QDG4	296-22044-5-ND	Prec. Prog. Shunt Reference ***NEW!***	8-SOIC	.90	.75	.60
TL1431QDR	296-17021-1-ND	Prec. Programmable Shunt Reference	8-SOIC	1.20	.90	.68
TL1431QDR	296-17021-2-ND	Prec. Programmable Shunt Reference	8-SOIC	975.00/2,500		
TL1431QDREP	296-18135-1-ND	Prec. Programmable Shunt Reference	8-SOIC	1.47	1.23	.98
TL1431QDREP	296-18135-2-ND	Prec. Programmable Shunt Reference	8-SOIC	1592.50/2,500		
TL1431QDRQ1	296-21093-1-ND	Prec. Programmable Shunt Reference	8-SOIC	.99	.83	.66
TL1431QDRQ1	296-21093-2-ND	Prec. Programmable Shunt Reference	8-SOIC	1072.50/2,500		
TL4050A10IDBZR	296-22779-1-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.58	1.26	.95
TL4050A10IDBZR	296-22779-2-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	2418.00/3,000		
TL4050A10IDCKR	296-22780-1-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.73	1.38	1.04
TL4050A10IDCKR	296-22780-2-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2649.00/3,000		
TL4050A10QDBZR	296-22781-1-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.75	1.40	1.05
TL4050A10QDBZR	296-22781-2-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	2688.00/3,000		
TL4050A10QDCKR	296-22782-1-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.93	1.54	1.16
TL4050A10QDCKR	296-22782-2-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2958.00/3,000		
TL4050A25IDBZR	296-22783-1-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.58	1.26	.95
TL4050A25IDBZR	296-22783-2-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	2418.00/3,000		
TL4050A25IDCKR	296-22784-1-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.73	1.38	1.04
TL4050A25IDCKR	296-22784-2-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2649.00/3,000		
TL4050A25QDBZR	296-22785-1-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.75	1.40	1.05
TL4050A25QDBZR	296-22785-2-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	2688.00/3,000		
TL4050A25QDCKR	296-22786-1-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.93	1.54	1.16
TL4050A25QDCKR	296-22786-2-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2958.00/3,000		
TL4050A41IDBZR	296-22787-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.58	1.26	.95
TL4050A41IDBZR	296-22787-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	2418.00/3,000		
TL4050A41IDCKR	296-22788-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.73	1.38	1.04
TL4050A41IDCKR	296-22788-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2649.00/3,000		
TL4050A41QDBZR	296-22789-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.75	1.40	1.05
TL4050A41QDBZR	296-22789-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	2688.00/3,000		
TL4050A41QDCKR	296-22790-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.93	1.54	1.16
TL4050A41QDCKR	296-22790-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2958.00/3,000		
TL4050A50IDBZR	296-22791-1-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.58	1.26	.95
TL4050A50IDBZR	296-22791-2-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	2418.00/3,000		
TL4050A50IDCKR	296-22792-1-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.73	1.38	1.04
TL4050A50IDCKR	296-22792-2-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2649.00/3,000		
TL4050A50QDBZR	296-22793-1-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.75	1.40	1.05
TL4050A50QDBZR	296-22793-2-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	2688.00/3,000		
TL4050A50QDCKR	296-22794-1-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.93	1.54	1.16
TL4050A50QDCKR	296-22794-2-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2958.00/3,000		
TL4050B10IDBZR	296-22795-1-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.23	1.03	.82
TL4050B10IDBZR	296-22795-2-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1599.00/3,000		
TL4050B10IDCKR	296-22796-1-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.35	1.13	.90
TL4050B10IDCKR	296-22796-2-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1755.00/3,000		
TL4050B10QDBZR	296-22797-1-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.47	1.23	.98
TL4050B10QDBZR	296-22797-2-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1911.00/3,000		
TL4050B10QDCKR	296-22798-1-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.33	1.06	.80
TL4050B10QDCKR	296-22798-2-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2034.00/3,000		
TL4050B25IDBZR	296-22799-1-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.23	1.03	.82
TL4050B25IDBZR	296-22799-2-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1599.003,000		
TL4050B25IDCKR	296-22800-1-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.35	1.13	.90
TL4050B25IDCKR	296-22800-2-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1755.00/3,000		
TL4050B25QDBZR	296-22801-1-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.47	1.23	.98
TL4050B25QDBZR	296-22801-2-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1911.00/3,000		
TL4050B25QDCKR	296-22802-1-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.33	1.06	.80
TL4050B25QDCKR	296-22802-2-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2034.00/3,000		
TL4050B41IDBZR	296-22803-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.23	1.03	.82
TL4050B41IDBZR	296-22803-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1599.00/3,000		
TL4050B41IDCKR	296-22804-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.35	1.13	.90
TL4050B41IDCKR	296-22804-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1755.003,000		
TL4050B41QDBZR	296-22805-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.47	1.23	.98
TL4050B41QDBZR	296-22805-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1911.00/3,000		
TL4050B41QDCKR	296-22806-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.33	1.06	.80
TL4050B41QDCKR	296-22806-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2034.00/3,000		
TL4050B50IDBZR	296-22807-1-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.23	1.03	.82
TL4050B50IDBZR	296-22807-2-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1599.00/3,000		
TL4050B50IDCKR	296-22808-1-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.35	1.13	.90
TL4050B50IDCKR	296-22808-2-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1755.00/3,000		
TL4050B50QDBZR	296-22809-1-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.47	1.23	.98
TL4050B50QDBZR	296-22809-2-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1911.00/3,000		
TL4050B50QDCKR	296-22810-1-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.33	1.06	.80
TL4050B50QDCKR	296-22810-2-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2034.00/3,000		
TL4050C10IDBZR	296-22811-1-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	.99	.83	.66
TL4050C10IDBZR	296-22811-2-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1287.00/3,000		
TL4050C10IDCKR	296-22812-1-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.08	.90	.72
TL4050C10IDCKR	296-22812-2-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1404.00/3,000		
TL4050C10QDBZR	296-22813-1-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.32	1.10	.88
TL4050C10QDBZR	296-22813-2-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1716.00/3,000		
TL4050C10QDCKR	296-22814-1-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.44	1.20	.96
TL4050C10QDCKR	296-22814-2-ND	10V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1872.00/3,000		
TL4050C25IDBZR	296-22815-1-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	.99	.83	.66
TL4050C25IDBZR	296-22815-2-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1287.00/3,000		
TL4050C25IDCKR	296-22816-1-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.08	.90	.72
TL4050C25IDCKR	296-22816-2-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1404.00/3,000		
TL4050C25QDBZR	296-22817-1-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.32	1.10	.88
TL4050C25QDBZR	296-22817-2-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1716.00/3,000		
TL4050C25QDCKR	296-22818-1-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.44	1.20	.96
TL4050C25QDCKR	296-22818-2-ND	2.5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1872.00/3,000		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL4050C41IDBZR	296-22819-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	.99	.83	.66
TL4050C41IDBZR	296-22819-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1287.00/3,000		
TL4050C41IDCKR	296-22820-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.08	.90	.72
TL4050C41IDCKR	296-22820-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1404.00/3,000		
TL4050C41QDBZR	296-22821-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.32	1.10	.88
TL4050C41QDBZR	296-22821-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1716.00/3,000		
TL4050C41QDCKR	296-22822-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.44	1.20	.96
TL4050C41QDCKR	296-22822-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1872.00/3,000		
TL4050C50IDBZR	296-22823-1-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	.99	.83	.66
TL4050C50IDBZR	296-22823-2-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1287.00/3,000		
TL4050C50IDCKR	296-22824-1-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.08	.90	.72
TL4050C50IDCKR	296-22824-2-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1404.00/3,000		
TL4050C50QDBZR	296-22825-1-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.32	1.10	.88
TL4050C50QDBZR	296-22825-2-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1716.00/3,000		
TL4050C50QDCKR	296-22826-1-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.44	1.20	.96
TL4050C50QDCKR	296-22826-2-ND	5V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1872.00/3,000		
TL4051A12IDBZR	296-22827-1-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.58	1.26	.95
TL4051A12IDBZR	296-22827-2-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	2418.00/3,000		
TL4051A12IDCKR	296-22828-1-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.73	1.38	1.04
TL4051A12IDCKR	296-22828-2-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2649.00/3,000		
TL4051A12QDBZR	296-22829-1-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.75	1.40	1.05
TL4051A12QDBZR	296-22829-2-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	2688.00/3,000		
TL4051A12QDCKR	296-22830-1-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.93	1.54	1.16
TL4051A12QDCKR	296-22830-2-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2958.00/3,000		
TL4051AIDBZR	296-22719-1-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.58	1.26	.95
TL4051AIDBZR	296-22719-2-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	2418.00/3,000		
TL4051AIDCKR	296-22720-1-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SC70-5	1.73	1.38	1.04
TL4051AIDCKR	296-22720-2-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SC70-5	2649.00/3,000		
TL4051AQDBZR	296-22721-1-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.75	1.40	1.05
TL4051AQDBZR	296-22721-2-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	2688.00/3,000		
TL4051AQDCKR	296-22831-1-ND	Adjustable Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.93	1.54	1.16
TL4051AQDCKR	296-22831-2-ND	Adjustable Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2958.00/3,000		
TL4051B12IDBZR	296-22832-1-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.20	1.00	.80
TL4051B12IDBZR	296-22832-2-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1560.00/3,000		
TL4051B12IDCKR	296-22833-1-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.32	1.10	.88
TL4051B12IDCKR	296-22833-2-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1716.00/3,000		
TL4051B12QDBZR	296-22834-1-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.47	1.23	.98
TL4051B12QDBZR	296-22834-2-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1911.00/3,000		
TL4051B12QDCKR	296-22835-1-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.33	1.06	.80
TL4051B12QDCKR	296-22835-2-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	2034.00/3,000		
TL4051BIDBZR	296-22722-1-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.20	1.00	.80
TL4051BIDBZR	296-22722-2-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1560.00/3,000		
TL4051BIDCKR	296-22723-1-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SC70-5	1.32	1.10	.88
TL4051BIDCKR	296-22723-2-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SC70-5	1716.00/3,000		
TL4051BQDBZR	296-22724-1-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.47	1.23	.98
TL4051BQDBZR	296-22724-2-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1911.00/3,000		
TL4051BQDCKR	296-22725-1-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SC70-5	1.33	1.06	.80
TL4051BQDCKR	296-22725-2-ND	Adj., Precision Micropower Shunt Voltage Reference ***NEW!***	SC70-5	2034.00/3,000		
TL4051C12IDBZR	296-22836-1-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.11	.93	.74
TL4051C12IDBZR	296-22836-2-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1443.00/3,000		
TL4051C12IDCKR	296-22837-1-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.20	1.00	.80
TL4051C12IDCKR	296-22837-2-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1560.00/3,000		
TL4051C12QDBZR	296-22838-1-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1.32	1.10	.88
TL4051C12QDBZR	296-22838-2-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	1716.00/3,000		
TL4051C12QDCKR	296-22839-1-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1.44	1.20	.96
TL4051C12QDCKR	296-22839-2-ND	1.2V Precision Micropower Shunt Voltage Reference ***NEW!***	SC-70	1872.00/3,000		
TL4051CIDBZR	296-22726-1-ND	Adj., Precision Micropower Shunt Reference ***NEW!***	SOT-23	1.11	.93	.74
TL4051CIDBZR	296-22726-2-ND	Adj., Precision Micropower Shunt Reference ***NEW!***	SOT-23	1443.00/3,000		
TL4051CIDCKR	296-22727-1-ND	Adj., Precision Micropower Shunt Reference ***NEW!***	SC70-5	1.20	1.00	.80
TL4051CIDCKR	296-22727-2-ND	Adj., Precision Micropower Shunt Reference ***NEW!***	SC70-5	1560.00/3,000		
TL4051CQDBZR	296-22728-1-ND	Adj., Precision Micropower Shunt Reference ***NEW!***	SOT-23	1.32	1.10	.88
TL4051CQDBZR	296-22728-2-ND	Adj., Precision Micropower Shunt Reference ***NEW!***	SOT-23	1716.00/3,000		
TL4051CQDCKR	296-22729-1-ND	Adj., Precision Micropower Shunt Reference ***NEW!***	SC70-5	1.44	1.20	.96
TL4051CQDCKR	296-22729-2-ND	Adj., Precision Micropower Shunt Reference ***NEW!***	SC70-5	1872.00/3,000		

Low Dropout Voltage Regulators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DEM-SOT223LDO	296-20842-ND	Demo Module for SOT-223 LDOs	—	5.10	—	—
DEM-SOT23LDO	296-20843-ND	Demo Module for SOT23-5 and SOT23-6 LDOs	—	5.10	—	—
DEM-TO263LDO	296-20844-ND	Demo Module for TO220 and TO263 LDOs	—	5.10	—	—
LM2940-50IKCSE3	296-20852-5-ND	5V, 1A LDO Voltage Regulator	TO-220	1.41	1.18	.94
LP2950-50LPRE3	296-20933-1-ND	5V, Adjustable Micropower Volt. Reg.	TO-92	.60	.45	.34
LP2950-50LPRE3	296-20933-3-ND	5V, Adjustable Micropower Volt. Reg.	TO-92	400.00/2,000		
LP2951DR	296-22748-1-ND	Adj. Micropower Voltage Reg. ***NEW!***	8-SOIC	.60	.45	.34
LP2951DR	296-22748-2-ND	Adj. Micropower Voltage Reg. ***NEW!***	8-SOIC	487.50/2,500		
LP2981-28DBVR	296-18472-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.80	.60	.45
LP2981-28DBVR	296-18472-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	780.00/3,000		
LP2981-29DBVR	296-22749-1-ND	2.9V, 100mA LDO Regulator ***NEW!***	SOT-23-5	.80	.60	.45
LP2981-29DBVR	296-22749-2-ND	2.9V, 100mA LDO Regulator ***NEW!***	SOT-23-5	780.00/3,000		
LP2981-30DBVR	296-17546-1-ND	3V, 100mA LDO Regulator	SOT-23-5	.80	.60	.45
LP2981-30DBVR	296-17546-2-ND	3V, 100mA LDO Regulator	SOT-23-5	780.00/3,000		
LP2981-33DBVR	296-17360-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	.80	.60	.45
LP2981-33DBVR	296-17360-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	780.00/3,000		
LP2981-33MDBVREP	296-22177-1-ND	3.3V, 100mA LDO Regulator ***NEW!***	SOT-23-5	2.25	1.80	1.40
LP2981-33MDBVREP	296-22177-2-ND	3.3V, 100mA LDO Regulator ***NEW!***	SOT-23-5	3780.00/3,000		
LP2981-50DBVR	296-22750-1-ND	5V, 100mA LDO Regulator ***NEW!***	SOT-23-5	.80	.60	.45
LP2981-50DBVR	296-22750-2-ND	5V, 100mA LDO Regulator ***NEW!***	SOT-23-5	780.00/3,000		
LP2981A-28DBVR	296-18473-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.88	.66	.50
LP2981A-28DBVR	296-18473-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	858.00/3,000		
LP2981A-29DBVR	296-22751-1-ND	2.9V, 100mA LDO Regulator ***NEW!***	SOT-23-5	.88	.66	.50
LP2981A-29DBVR	296-22751-2-ND	2.9V, 100mA LDO Regulator ***NEW!***	SOT-23-5	780.00/3,000		
LP2981A-30DBVR	296-17545-1-ND	3V, 100mA LDO Regulator	SOT-23-5	.88	.66	.50
LP2981A-30DBVR	296-17545-2-ND	3V, 100mA LDO Regulator	SOT-23-5	858.00/3,000		
LP2981A-33DBVR	296-17361-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	.88	.66	.50
LP2981A-33DBVR	296-17361-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	858.00/3,000		
LP2981A-50DBVR	296-22752-1-ND	5V, 100mA LDO Regulator ***NEW!***	SOT-23-5	.80	.60	.45
LP2981A-50DBVR	296-22752-2-ND	5V, 100mA LDO Regulator ***NEW!***	SOT-23-5	780.00/3,000		
LP2985-18DBVR	296-18474-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	.72	.54	.41
LP2985-18DBVR	296-18474-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	702.00/3,000		
LP2985-28DBVR	296-18475-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.72	.54	.41
LP2985-28DBVR	296-18475-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	702.00/3,000		
LP2985-33DBVR	296-18476-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.72	.54	.41
LP2985-33DBVR	296-18476-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	702.00/3,000		
LP2985-50DBVR	296-20717-1-ND	5V, 150mA LDO Regulator	SOT-23-5	.72	.54	.41
LP2985-50DBVR	296-20717-2-ND	5V, 150mA LDO Regulator	SOT-23-5	702.00/3,000		
LP2985A-18DBVR	296-18477-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	.74	.56	.42
LP2985A-18DBVR	296-18477-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	723.00/3,000		
LP2985A-28DBVR	296-18478-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.74	.56	.42
LP2985A-28DBVR	296-18478-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	723.00/3,000		
LP2985A-33DBVR	296-18479-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.74	.56	.42
LP2985A-33DBVR	296-18479-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	723.00/3,000		
REG101NA-A/250	REG101NA-A/250CT-ND	Adj., DMOS 100mA LDO Regulator	SOT-23-5	2.25	—	—
REG101NA-A/250	REG101NA-A/250TR-ND	Adj., DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101NA-2.5/250	REG101NA-2.5CT-ND	2.5V DMOS 100mA LDO Regulator	SOT-23-5	2.25	—	—
REG101NA-2.5/250	REG101NA-2.5TR-ND	2.5V DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101NA-2.8/250	REG101NA-2.8CT-ND	2.8V DMOS 100mA LDO Regulator	SOT-23-5	2.25	—	—
REG101NA-2.8/250	REG101NA-2.8TR-ND	2.8V DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101NA-2.85/250	REG101NA-2.85CT-ND	2.85V DMOS 100mA LDO Regulator	SOT-23-5	2.25	—	—
REG101NA-2.85/250	REG101NA-2.85TR-ND	2.85V DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101NA-3/250	REG101NA-3CT-ND	3V DMOS 100mA LDO Regulator	SOT-23-5	2.25	—	—
REG101NA-3/250	REG101NA-3TR-ND	3V DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101NA-3.3/250	REG101NA-3.3CT-ND	3.3V DMOS 100mA LDO Regulator	SOT-23-5	2.25	—	—
REG101NA-3.3/250	REG101NA-3.3TR-ND	3.3V DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101NA-5/250	REG101NA-5CT-ND	5V DMOS 100mA LDO Regulator	SOT-23-5	2.25	—	—
REG101NA-5/250	REG101NA-5TR-ND	5V DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101UA-A	REG101UA-A-ND	Adj., 100mA LDO Regulator	8-SOIC	2.38	—	—
REG101UA-2.5	REG101UA-2.5-ND	2.5V DMOS 100mA LDO Regulator	SO-8-50	2.38	—	—
REG101UA-2.5/2KS	REG101UA-2.5TR-ND	2.5V DMOS 100mA LDO Regulator	SO-8-50	3040.00/2,500		
REG101UA-2.8	REG101UA-2.8-ND	2.8V DMOS 100mA LDO Regulator	SO-8-50	2.38	—	—
REG101UA-2.8/2KS	REG101UA-2.8TR-ND	2.8V DMOS 100mA LDO Regulator	SO-8-50	3040.00/2,500		
REG101UA-2.85	REG101UA-2.85-ND	2.85V DMOS 100mA LDO Regulator	SO-8-50	2.38	—	—
REG101UA-3	REG101UA-3-ND	3V DMOS 100mA LDO Regulator	SO-8-50	2.38	—	—
REG101UA-3/2KS	REG101UA-3TR-ND	3V DMOS 100mA LDO Regulator	SO-8-50	3040.00/2,500		
REG101UA-3.3	REG101UA-3.3-ND	3.3V DMOS 100mA LDO Regulator	8-SOIC	2.38	—	—
REG101UA-5	REG101UA-5-ND	5V DMOS 100mA LDO Regulator	SO-8-50	2.38	—	—
REG101UA-5/2KS	REG101UA-5TR-ND	5V DMOS 100mA LDO Regulator	SO-8-50	3040.00/2,500		
REG102GA-A	REG102GA-A-ND	Adj., 250mA DMOS LDO Reg.	SOT-223-6	2.68	—	—
REG102GA-2.5	REG102GA-2.5-ND	2.5V, 250mA DMOS LDO Reg.	SOT-223-6	2.68	—	—
REG102GA-2.8	REG102GA-2.8-ND	2.8V, 250mA DMOS LDO Reg.	SOT-223-6	2.68	—	—
REG102GA-2.85	REG102GA-2.85-ND	2.85V, 250mA DMOS LDO Reg.	SOT-223-6	2.68	—	—

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
REG102GA-3	REG102GA-3-ND	3V, 250mA DMOS LDO Reg.	SOT-223-6	2.68	—	—
REG102GA-3.3	REG102GA-3.3-ND	3.3V, 250mA DMOS LDO Reg.	SOT-223-6	2.68	—	—
REG102GA-5	REG102GA-5-ND	5V, 250mA DMOS LDO Regulator	SOT-223-6	2.68	—	—
REG102NA-A/250	REG102NA-A/250CT-ND	Adj., DMOS 250mA LDO Regulator	SOT-23-5	2.57	—	—
REG102NA-A/250	REG102NA-A/250TR-ND	Adj., DMOS 250mA LDO Regulator	SOT-23-5		379.00/250	
REG102NA-2.5/250	REG102NA-2.5CT-ND	2.5V DMOS 250mA LDO Regulator	SOT-23-5	2.57	—	—
REG102NA-2.5/250	REG102NA-2.5TR-ND	2.5V DMOS 250mA LDO Regulator	SOT-23-5		379.00/250	
REG102NA-2.8/250	REG102NA2.8250CT-ND	2.8V DMOS 250mA LDO Regulator	SOT-23-5	2.57	—	—
REG102NA-2.8/250	REG102NA2.8250TR-ND	2.8V DMOS 250mA LDO Regulator	SOT-23-5		379.00/250	
REG102NA-2.85/250	REG102NA-2.85CT-ND	2.85V DMOS 250mA LDO Regulator	SOT-23-5	2.57	—	—
REG102NA-2.85/250	REG102NA-2.85TR-ND	2.85V DMOS 250mA LDO Regulator	SOT-23-5		379.00/250	
REG102NA-2.85/3K	296-20535-1-ND	2.85V DMOS 250mA LDO Regulator	SOT-23-5	2.25	—	—
REG102NA-2.85/3K	296-20535-2-ND	2.85V DMOS 250mA LDO Regulator	SOT-23-5		3780.00/3,000	
REG102NA-3/3K	296-17894-1-ND	3V DMOS 250mA LDO Regulator	SOT-23-5	2.25	—	—
REG102NA-3/3K	296-17894-2-ND	3V DMOS 250mA LDO Regulator	SOT-23-5		3780.00/3,000	
REG102NA-3/250	REG102NA-3CT-ND	3V DMOS 250mA LDO Regulator	SOT-23-5	2.57	—	—
REG102NA-3/250	REG102NA-3TR-ND	3V DMOS 250mA LDO Regulator	SOT-23-5		379.00/250	
REG102NA-3.3/250	REG102NA-3.3CT-ND	3.3V DMOS 250mA LDO Regulator	SOT-23-5	2.57	—	—
REG102NA-3.3/250	REG102NA-3.3TR-ND	3.3V DMOS 250mA LDO Regulator	SOT-23-5		379.00/250	
REG102NA-5/250	REG102NA-5CT-ND	5V DMOS 250mA LDO Regulator	SOT-23-5	2.57	—	—
REG102NA-5/250	REG102NA-5TR-ND	5V DMOS 250mA LDO Regulator	SOT-23-5		379.00/250	
REG102UA-A	REG102UA-A-ND	Adj., 250mA LDO Regulator	8-SOIC	2.36	—	—
REG102UA-2.5	REG102UA-2.5-ND	2.5V, 250mA LDO Regulator	8-SOIC	2.36	—	—
REG102UA-2.85	REG102UA-2.85-ND	2.85V, 250mA LDO Regulator	8-SOIC	2.36	—	—
REG102UA-3	REG102UA-3-ND	3V, 250mA LDO Regulator	8-SOIC	2.36	—	—
REG102UA-3.3	REG102UA-3.3-ND	3.3V, 250mA LDO Regulator	8-SOIC	2.36	—	—
REG102UA-5	REG102UA-5-ND	5V, 250mA LDO Regulator	8-SOIC	2.36	—	—
REG103FA-AKTTT	296-15998-1-ND	Adj., 500mA LDO Regulator	5-DDPAK	5.60	—	—
REG103FA-AKTTT	296-15998-2-ND	Adj., 500mA LDO Regulator	5-DDPAK		189.00/50	
REG103FA-A/500	296-15940-1-ND	Adj., 500mA LDO Regulator	5-DDPAK	5.60	—	—
REG103FA-A/500	296-15940-2-ND	Adj., 500mA LDO Regulator	5-DDPAK		1778.00/500	
REG103FA-2.5	REG103FA-2.5-ND	2.5V, 500mA LDO Regulator	5-DDPAK	5.04	4.04	3.41
REG103FA-2.5/500	296-15935-1-ND	2.5V, 500mA LDO Regulator	5-DDPAK	5.60	—	—
REG103FA-2.5/500	296-15935-2-ND	2.5V, 500mA LDO Regulator	5-DDPAK		1778.00/500	
REG103FA-2.5KTTT	296-15993-1-ND	2.5V, 500mA LDO Regulator	5-DDPAK	5.60	—	—
REG103FA-2.5KTTT	296-15993-2-ND	2.5V, 500mA LDO Regulator	5-DDPAK		189.00/50	
REG103FA-2.7	REG103FA-2.7-ND	2.7V, 500mA LDO Regulator	5-DDPAK	5.04	4.04	3.41
REG103FA-2.7/500	296-15936-1-ND	2.7V, 500mA LDO Regulator	5-DDPAK	5.62	4.50	3.80
REG103FA-2.7/500	296-15936-2-ND	2.7V, 500mA LDO Regulator	5-DDPAK		1784.50/500	
REG103FA-2.7KTTT	296-15994-1-ND	2.7V, 500mA LDO Regulator	5-DDPAK	8.50	—	—
REG103FA-2.7KTTT	296-15994-2-ND	2.7V, 500mA LDO Regulator	5-DDPAK		286.90/50	
REG103FA-3/500	296-15938-1-ND	3V, 500mA LDO Regulator	5-DDPAK	5.62	4.50	3.80
REG103FA-3/500	296-15938-2-ND	3V, 500mA LDO Regulator	5-DDPAK		1784.50/500	
REG103FA-3KTTT	296-15995-1-ND	3V, 500mA LDO Regulator	5-DDPAK	8.50	—	—
REG103FA-3KTTT	296-15995-2-ND	3V, 500mA LDO Regulator	5-DDPAK		286.90/50	
REG103FA-3.3/500	296-15937-1-ND	3.3V, 500mA LDO Regulator	5-DDPAK	5.60	—	—
REG103FA-3.3/500	296-15937-2-ND	3.3V, 500mA LDO Regulator	5-DDPAK		1778.00/500	
REG103FA-3.3KTTT	296-15996-1-ND	3.3V, 500mA LDO Regulator	5-DDPAK	5.60	—	—
REG103FA-3.3KTTT	296-15996-2-ND	3.3V, 500mA LDO Regulator	5-DDPAK		189.00/50	
REG103FA-5/500	296-15939-1-ND	5V, 500mA LDO Regulator	5-DDPAK	5.60	—	—
REG103FA-5/500	296-15939-2-ND	5V, 500mA LDO Regulator	5-DDPAK		1778.00/500	
REG103FA-5KTTT	296-15997-1-ND	5V, 500mA LDO Regulator	5-DDPAK	5.60	—	—
REG103FA-5KTTT	296-15997-2-ND	5V, 500mA LDO Regulator	5-DDPAK		189.00/50	
REG103GA-A	REG103GA-A-ND	Adj., CMOS 500mA LDO Regulator	SOT-223-5	5.02	—	—
REG103GA-2.5	REG103GA-2.5-ND	2.5V CMOS 500mA LDO Regulator	SOT-223-5	5.02	—	—
REG103GA-2.7	REG103GA-2.7-ND	2.7V CMOS 500mA LDO Regulator	SOT-223-5	8.50	—	—
REG103GA-3	REG103GA-3-ND	3V CMOS 500mA LDO Regulator	SOT-223-5	8.50	—	—
REG103GA-3.3	REG103GA-3.3-ND	3.3V CMOS 500mA LDO Regulator	SOT-223-5	5.02	—	—
REG103GA-5	REG103GA-5-ND	5V CMOS 500mA LDO Regulator	SOT-223-5	5.02	—	—
REG103UA-A	REG103UA-A-ND	Adj., DMOS 500mA LDO Regulator	8-SOIC	4.82	—	—
REG103UA-2.5	REG103UA-2.5-ND	2.5V DMOS 500mA LDO Regulator	8-SOIC	4.82	—	—
REG103UA-2.7	REG103UA-2.7-ND	2.7V DMOS 500mA LDO Regulator	8-SOIC	8.50	—	—
REG103UA-3	REG103UA-3-ND	3V DMOS 500mA LDO Regulator	8-SOIC	8.50	—	—
REG103UA-3.3	REG103UA-3.3-ND	3.3V DMOS 500mA LDO Regulator	8-SOIC	4.82	—	—
REG103UA-5	REG103UA-5-ND	5V DMOS 500mA LDO Regulator	8-SOIC	4.82	—	—
REG104FA-AKTTT	296-16004-1-ND	Adj., CMOS 1A LDO Regulator	5-DDPAK	5.52	—	—
REG104FA-AKTTT	296-16004-2-ND	Adj., CMOS 1A LDO Regulator	5-DDPAK		186.30/50	
REG104FA-A/500	296-15907-1-ND	Adj., CMOS 1A LDO Regulator	5-DDPAK	5.52	—	—
REG104FA-A/500	296-15907-2-ND	Adj., CMOS 1A LDO Regulator	5-DDPAK		1752.50/500	
REG104FA-2.5/500	REG104FA-2.5TR-ND	2.5V CMOS 1A LDO Regulator	5-DDPAK		1752.50/500	
REG104FA-2.5KTTT	296-15999-1-ND	2.5V CMOS 1A LDO Regulator	5-DDPAK	5.52	—	—
REG104FA-2.5KTTT	296-15999-2-ND	2.5V CMOS 1A LDO Regulator	5-DDPAK		186.30/50	
REG104FA-2.7/500	296-15906-1-ND	2.7V CMOS 1A LDO Regulator	5-DDPAK	5.52	4.42	3.73
REG104FA-2.7/500	296-15906-2-ND	2.7V CMOS 1A LDO Regulator	5-DDPAK		1752.50/500	
REG104FA-2.7KTTT	296-16000-1-ND	2.7V CMOS 1A LDO Regulator	5-DDPAK	8.50	—	—
REG104FA-2.7KTTT	296-16000-2-ND	2.7V CMOS 1A LDO Regulator	5-DDPAK		286.90/50	
REG104FA-3/500	REG104FA-3TR-ND	3V CMOS 1A LDO Regulator	5-DDPAK		2699.00/500	
REG104FA-3KTTT	296-16001-1-ND	3V CMOS 1A LDO Regulator	5-DDPAK	8.50	—	—
REG104FA-3KTTT	296-16001-2-ND	3V CMOS 1A LDO Regulator	5-DDPAK		286.90/50	
REG104FA-3.3/500	REG104FA-3.3CT-ND	3.3V CMOS 1A LDO Regulator	5-DDPAK	5.52	4.42	3.73
REG104FA-3.3/500	REG104FA-3.3TR-ND	3.3V CMOS 1A LDO Regulator	5-DDPAK		1752.50/500	
REG104FA-3.3KTTT	296-16002-1-ND	3.3V CMOS 1A LDO Regulator	5-DDPAK	5.52	—	—
REG104FA-3.3KTTT	296-16002-2-ND	3.3V CMOS 1A LDO Regulator	5-DDPAK		186.30/50	
REG104FA-5/500	REG104FA-5CT-ND	5V CMOS 1A LDO Regulator	5-DDPAK	5.52	—	—
REG104FA-5/500	REG104FA-5TR-ND	5V CMOS 1A LDO Regulator	5-DDPAK		1752.50/500	
REG104FA-5KTTT	296-16003-1-ND	5V CMOS 1A LDO Regulator	5-DDPAK	5.52	—	—
REG104FA-5KTTT	296-16003-2-ND	5V CMOS 1A LDO Regulator	5-DDPAK		186.30/50	
REG104GA-A	REG104GA-A-ND	Adj., CMOS 1A LDO Regulator	6-SOP	5.02	—	—
REG104GA-2.5	REG104GA-2.5-ND	2.5V CMOS 1A LDO Regulator	SOT-223-5	5.02	—	—
REG104GA-2.5/2K5	REG104GA-2.5TR-ND	2.5V CMOS 1A LDO Regulator	SOT-223-5		7025.00/2,500	
REG104GA-3	REG104GA-3-ND	3V CMOS 1A LDO Regulator	SOT-223-5	8.50	—	—
REG104GA-3.3	REG104GA-3.3-ND	3.3V CMOS 1A LDO Regulator	SOT-223-5	5.02	—	—
REG104GA-3.3/2K5	REG104GA-3.3TR-ND	3.3V CMOS 1A LDO Regulator	SOT-223-5		7025.00/2,500	
REG104GA-5	REG104GA-5-ND	5V CMOS 1A LDO Regulator	SOT-223-5	5.02	—	—
REG104GA-5/2K5	REG104GA-5CT-ND	5V CMOS 1A LDO Regulator	SOT-223-5	5.02	—	—
REG104GA-5/2K5	REG104GA-5TR-ND	5V CMOS 1A LDO Regulator	SOT-223-5		7025.00/2,500	
REG113EA2.5/2K5	REG113EA2.52K5CT-ND	2.5V, 400mA DMOS LDO Regulator	8-MSOP	2.57	—	—
REG113EA2.5/2K5	REG113EA2.52K5TR-ND	2.5V, 400mA DMOS LDO Regulator	8-MSOP		3590.00/2,500	
REG113EA-2.85/2K5	REG113EA2.852K5CT-ND	2.85V, 400mA DMOS LDO Regulator	8-MSOP	2.57	—	—
REG113EA-2.85/2K5	REG113EA2.852K5TR-ND	2.85V, 400mA DMOS LDO Regulator	8-MSOP		3590.00/2,500	
REG113EA-3/2K5	REG113EA-3/2K5CT-ND	3V, 400mA DMOS LDO Regulator	8-MSOP	2.57	—	—
REG113EA-3/2K5	REG113EA-3/2K5TR-ND	3V, 400mA DMOS LDO Regulator	8-MSOP		3590.00/2,500	
REG113EA-3.3/250	REG113EA3.3/250CT-ND	3.3V, 400mA DMOS LDO Regulator	8-MSOP	2.88	—	—
REG113EA-3.3/250	REG113EA3.3/250TR-ND	3.3V, 400mA DMOS LDO Regulator	8-MSOP		425.50/250	
REG113EA-5/2K5	REG113EA-5/2K5CT-ND	5V, 400mA DMOS LDO Regulator	8-MSOP	2.57	—	—

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
REG113EA-5/2K5	REG113EA-5/2K5TR-ND	5V, 400mA DMOS LDO Regulator	8-MSOP		3590.00/2,500	
REG113NA-2.5/3K	REG113NA-2.5/3KCT-ND	2.5V, 400mA LDO Regulator	SOT-23-5	2.36	—	—
REG113NA-2.5/3K	REG113NA-2.5/3KTR-ND	2.5V, 400mA LDO Regulator	SOT-23-5		3969.00/3,000	
REG113NA-2.85/3K	REG113NA2.853KCT-ND	2.85V, 400mA LDO Regulator	SOT-23-5	2.36	—	—
REG113NA-2.85/3K	REG113NA2.853KTR-ND	2.85V, 400mA LDO Regulator	SOT-23-5		3969.00/3,000	
REG113NA-3/3K	REG113NA-3/3KCT-ND	3V, 400mA LDO Regulator	SOT-23-5	2.36	—	—
REG113NA-3/3K	REG113NA-3/3KTR-ND	3V, 400mA LDO Regulator	SOT-23-5		3969.00/3,000	
REG113NA-3.3/3K	REG113NA-3.3/3KCT-ND	3.3V, 400mA LDO Regulator	SOT-23-5	2.36	—	—
REG113NA-3.3/3K	REG113NA-3.3/3KTR-ND	3.3V, 400mA LDO Regulator	SOT-23-5		3969.00/3,000	
REG113NA-5/3K	REG113NA-5/3KCT-ND	5V, 400mA LDO Regulator	SOT-23-5	2.36	—	—
REG113NA-5/3K	REG113NA-5/3KTR-ND	5V, 400mA LDO Regulator	SOT-23-5		3969.00/3,000	
REG1117	REG1117-ND	Adj., LDO Positive Regulator	SOT-223	1.90	—	—
REG1117-2.85	REG1117-2.85-ND	2.85V LDO Positive Regulator	SOT-223	1.90	—	—
REG1117-3.3	REG1117-3.3-ND	3.30V LDO Positive Regulator	SOT-223	1.90	—	—
REG1117-3.3/2K5	296-21321-1-ND	3.3V LDO Positive Regulator	SOT-223	1.90	—	—
REG1117-3.3/2K5	296-21321-2-ND	3.3V LDO Positive Regulator	SOT-223		2432.50/2,500	
REG1117-5	REG1117-5-ND	5V LDO Positive Regulator	SOT-223	1.90	—	—
REG1117A	REG1117A-ND	Adj., 1A LDO Positive Regulator	SOT-223	2.03	—	—
REG1117A-1.8	REG1117A-1.8-ND	1.8V, 1A LDO Regulator	SOT-223	2.03	—	—
REG1117A-2.5	REG1117A-2.5-ND	2.5V, 1A LDO Regulator	SOT-223	2.03	—	—
REG1117F-3.3/500	296-15941-1-ND	3.3V, 1A LDO Regulator	3-DDPAK	2.45	—	—
REG1117F-3.3/500	296-15941-2-ND	3.3V, 1A LDO Regulator	3-DDPAK		708.50/500	
REG1117F-3.3KTTT	296-16005-1-ND	3.3V, 800mA LDO Regulator	3-DDPAK	2.45	—	—
REG1117F-3.3KTTT	296-16005-2-ND	3.3V, 800mA LDO Regulator	3-DDPAK		76.30/50	
REG1117FA/500	296-15942-1-ND	Adj., 1A LDO Regulator	3-DDPAK	2.68	—	—
REG1117FA/500	296-15942-2-ND	Adj., 1A LDO Regulator	3-DDPAK		773.50/500	
REG1117FAKTTT	296-16006-1-ND	Adj., 1A LDO Regulator	3-DDPAK	2.68	—	—
REG1117FAKTTT	296-16006-2-ND	Adj., 1A LDO Regulator	3-DDPAK		83.30/50	
REG1117FA-1.8/500	296-15908-1-ND	1.8V, 1A LDO Regulator	3-DDPAK	2.68	—	—
REG1117FA-1.8/500	296-15908-2-ND	1.8V, 1A LDO Regulator	3-DDPAK		773.50/500	
REG1117FA-1.8KTTT	296-16007-1-ND	1.8V, 1A LDO Regulator	3-DDPAK	2.68	—	—
REG1117FA-1.8KTTT	296-16007-2-ND	1.8V, 1A LDO Regulator	3-DDPAK		83.30/50	
REG1117FA-2.5/500	296-15909-1-ND	2.5V, 1A LDO Regulator	3-DDPAK	2.68	—	—
REG1117FA-2.5/500	296-15909-2-ND	2.5V, 1A LDO Regulator	3-DDPAK		773.50/500	
REG1117FA-2.5KTTT	296-16008-1-ND	2.5V, 1A LDO Regulator	3-DDPAK	2.68	—	—
REG1117FA-2.5KTTT	296-16008-2-ND	2.5V, 1A LDO Regulator	3-DDPAK		83.30/50	
REG1117FA-5.0/500	296-15910-1-ND	5V, 1A LDO Regulator	3-DDPAK	2.68	—	—
REG1117FA-5.0/500	296-15910-2-ND	5V, 1A LDO Regulator	3-DDPAK		773.50/500	
REG1117FA-5.0KTTT	296-16009-1-ND	5V, 1A LDO Regulator	3-DDPAK	2.68	—	—
REG1117FA-5.0KTTT	296-16009-2-ND	5V, 1A LDO Regulator	3-DDPAK		83.30/50	
REG1118-2.85	REG1118-2.85-ND	2.85V LDO Regulator with Source/Sink Capability	SOT-223	2.25	—	—
SN105125DBVR	296-15347-1-ND	150mA LDO Regulator with POK	SOT-23-5	.87	.73	.58
SN105125DBVR	296-15347-2-ND	150mA LDO Regulator with POK	SOT-23-5		1131.00/3,000	
TL750L05CD	296-8000-5-ND	5V, 150mA LDO Voltage Regulator	8-SOIC	.68	.51	.39
TL750L05CDR	296-15014-1-ND	5V, 150mA LDO Voltage Regulator	8-SOIC	.57	.43	.33
TL750L05CDR	296-15014-2-ND	5V, 150mA LDO Voltage Regulator	8-SOIC		465.00/2,500	
TL750L05CKC	296-8001-5-ND	5V, 150mA LDO Voltage Regulator	TO-220AB	.75	.63	.50
TL750L05CKCS	296-21342-5-ND	5V, 150mA LDO Voltage Regulator	TO-220	.80	.60	.45
TL750L05CKTTR	296-22840-1-ND	5V, 150mA LDO Regulator ***NEW!***	D2PAK	.75	.63	.50
TL750L05CKTTR	296-22840-2-ND	5V, 150mA LDO Regulator ***NEW!***	D2PAK		175.00/500	
TL750L05CLP	296-8002-5-ND	5V, 150mA LDO Voltage Regulator	TO-92	.68	.51	.39
TL750L08CD	296-8004-5-ND	8V, 150mA LDO Voltage Regulator	8-SOIC	.68	.51	.39
TL750L08CLP	296-8005-5-ND	8V, 150mA LDO Voltage Regulator	TO-92	.68	.51	.39
TL750L10CD	296-8006-5-ND	10V, 150mA LDO Voltage Regulator	8-SOIC	.68	.51	.39
TL750L10CLPR	296-8007-1-ND	10V, 150mA LDO Voltage Regulator	TO-92	.68	.51	.39
TL750L10CLPR	296-8007-2-ND	10V, 150mA LDO Voltage Regulator	TO-92		452.00/2,000	
TL750L12CD	296-8008-5-ND	12V, 150mA LDO Voltage Regulator	8-SOIC	.68	.51	.39
TL750L12CLP	296-8009-5-ND	12V, 150mA LDO Voltage Regulator	TO-92	.68	.51	.39
TL750M05CKCSE3	296-21594-5-ND	5V, LDO Voltage Regulator	TO-220	1.14	.95	.76
TL750M05CKTPR	296-17613-1-ND	5V, LDO Voltage Regulator	2-PFM	1.08	.90	.72
TL750M05CKTTR	296-20776-1-ND	5V, LDO Voltage Regulator	TO-263	1.17	.98	.78
TL750M05CKTTR	296-20776-2-ND	5V, LDO Voltage Regulator	TO-263		519.00/1,000	
TL750M05CKVURG3	296-21595-1-ND	5V, LDO Voltage Regulator	3-PFM	1.08	.90	.72
TL750M05CKVURG3	296-21595-2-ND	5V, LDO Voltage Regulator	3-PFM		1170.00/2,500	
TL750M08CKCSE3	296-21596-5-ND	8V, LDO Voltage Regulator	TO-220	1.14	.95	.76
TL750M08CKVURG3	296-21597-1-ND	8V, LDO Voltage Regulator	3-PFM	1.08	.90	.72
TL750M08CKVURG3	296-21597-2-ND	8V, LDO Voltage Regulator	3-PFM		1170.00/2,500	
TL750M10CKCSE3	296-21598-5-ND	10V, LDO Voltage Regulator	TO-220	1.14	.95	.76
TL750M10CKVURG3	296-21599-1-ND	10V, LDO Voltage Regulator	3-PFM	1.08	.90	.72
TL750M10CKVURG3	296-21599-2-ND	10V, LDO Voltage Regulator	3-PFM		1170.00/2,500	
TL750M10CKTER	296-18893-1-ND	10V, LDO Voltage Regulator	3-PFM	1.17	.98	.78
TL750M10CKTER	296-18893-2-ND	10V, LDO Voltage Regulator	3-PFM		1038.00/2,000	
TL750M12CKCSE3	296-21600-5-ND	12V, LDO Voltage Regulator	TO-220	1.14	.95	.76
TL750M12CKVURG3	296-21601-1-ND	12V, LDO Voltage Regulator	3-PFM	1.08	.90	.72
TL750M12CKVURG3	296-21601-2-ND	12V, LDO Voltage Regulator	3-PFM		1170.00/2,500	
TL751L05CD	296-8011-5-ND	5V, 150mA LDO Regulator	8-SOIC	.87	.73	.58
TL751L05CDR	296-15015-1-ND	5V, 150mA LDO Regulator	8-SOIC	.87	.73	.58
TL751L05CDR	296-15015-2-ND	5V, 150mA LDO Regulator	8-SOIC		942.50/2,500	
TL751L10CD	296-8012-5-ND	10V, 150mA LDO Regulator	8-SOIC	.87	.73	.58
TL751L10CP	296-8013-5-ND	10V, 150mA LDO Regulator	8-Dip	.87	.73	.58
TL751L12CDR	296-15016-1-ND	12V, 150mA LDO Regulator	8-SOIC	.87	.73	.58
TL751L12CDR	296-15016-2-ND	12V, 150mA LDO Regulator	8-SOIC		942.50/2,500	
TL751M05QKTTRQ1	296-23318-1-ND	5V LDO Postive Voltage Reg. ***NEW!***	TO-263-5	1.44	1.20	.96
TL751M05QKTTRQ1	296-23318-2-ND	5V LDO Postive Voltage Reg. ***NEW!***	TO-263-5		336.00/500	
TL751M08QKTTRQ1	296-23319-1-ND	8V LDO Postive Voltage Reg. ***NEW!***	TO-263-5	1.44	1.20	.96
TL751M08QKTTRQ1	296-23319-2-ND	8V LDO Postive Voltage Reg. ***NEW!***	TO-263-5		336.00/500	
TL760M25QKTTRQ1	296-23320-1-ND	2.5V LDO Fixed Voltage Reg. ***NEW!***	TO-263	1.35	1.13	.90
TL760M08QKTTRQ1	296-23320-2-ND	2.5V LDO Fixed Voltage Reg. ***NEW!***	TO-263		315.00/500	
TL760M33QKTTRQ1	296-21854-1-ND	3.3V LDO Fixed Regulator	3-DDPAK	1.35	1.13	.90
TL760M33QKTTRQ1	296-21854-2-ND	3.3V LDO Fixed Regulator	3-DDPAK		315.00/500	
TL780-05KCSE3	296-21602-5-ND	5V, 1.5A Positive Voltage Regulator	TO-220	.88	.66	.50
TL780-12KCSE3	296-21603-5-ND	12V, 1.5A Positive Voltage Regulator	TO-220	.88	.66	.50
TL780-15KCSE3	296-21604-5-ND	15V, 1.5A Positive Voltage Regulator	TO-220	.88	.66	.50
TL7700CPSR	296-8015-1-ND	Supply-Voltage Supervisor	8-SOP	2.81	2.25	1.75
TL7700CPSR	296-8015-2-ND	Supply-Voltage Supervisor	8-SOP		3188.00/2,000	
TLV1117CDCYR	296-17598-1-ND	Adj., LDO Voltage Regulator	SOT-223	.64	.48	.36
TLV1117CDCYR	296-17598-2-ND	Adj., LDO Voltage Regulator	SOT-223		520.00/2,500	
TLV1117CDRJR	296-19515-1-ND	Adj., LDO Voltage Regulator	8-SON	.72	.54	.41
TLV1117CDRJR	296-19515-2-ND	Adj., LDO Voltage Regulator	8-SON		239.00/1,000	

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV1117CKCS	296-17599-5-ND	Adj., LDO Voltage Regulator	TO-220	.88	.66	.50
TLV1117CKTPR	296-17735-1-ND	Adj., LDO Voltage Regulator	3-PFM	.80	.60	.45
TLV1117CKTTR	296-20781-1-ND	Adj., LDO Voltage Regulator	TO-263	.92	.69	.52
TLV1117CKTTR	296-20781-2-ND	Adj., LDO Voltage Regulator	TO-263	306.00/1,000		
TLV1117CKVURG3	296-19516-1-ND	Adj., LDO Voltage Regulator	3-PFM	.72	.54	.41
TLV1117CKVURG3	296-19516-2-ND	Adj., LDO Voltage Regulator	3-PFM	585.00/2,500		
TLV1117IDCYR	296-17600-1-ND	Adj., LDO Voltage Regulator	SOT-223	.72	.54	.41
TLV1117IDCYR	296-17600-2-ND	Adj., LDO Voltage Regulator	SOT-223	585.00/2,500		
TLV1117IDRJR	296-19517-1-ND	Adj., LDO Voltage Regulator	8-SON	.80	.60	.45
TLV1117IDRJR	296-19517-2-ND	Adj., LDO Voltage Regulator	8-SON	266.00/1,000		
TLV1117IKCS	296-17601-5-ND	Adj., LDO Voltage Regulator	TO-220	.96	.72	.54
TLV1117IKTTR	296-20782-1-ND	Adj., LDO Voltage Regulator	TO-263	.75	.63	.50
TLV1117IKTTR	296-20782-2-ND	Adj., LDO Voltage Regulator	TO-263	333.00/1,000		
TLV1117IKVURG3	296-19518-1-ND	Adj., LDO Voltage Regulator	3-PFM	.80	.60	.45
TLV1117IKVURG3	296-19518-2-ND	Adj., LDO Voltage Regulator	3-PFM	650.00/2,500		
TLV1117-15CDCYR	296-21106-1-ND	1.5V, LDO Voltage Regulator	SOT-223-4	.64	.48	.36
TLV1117-15CDCYR	296-21106-2-ND	1.5V, LDO Voltage Regulator	SOT-223-4	520.00/2,500		
TLV1117-15CDRJR	296-23023-1-ND	1.5V, LDO Voltage Regulator ***NEW!***	8-SON	.88	.66	.50
TLV1117-15CDRJR	296-23023-2-ND	1.5V, LDO Voltage Regulator ***NEW!***	8-SON	293.00/1,000		
TLV1117-15IDCYR	296-21107-1-ND	1.5V, LDO Voltage Regulator	SOT-223-4	.72	.54	.41
TLV1117-15IDCYR	296-21107-2-ND	1.5V, LDO Voltage Regulator	SOT-223-4	585.00/2,500		
TLV1117-15IKVURG3	296-19669-1-ND	1.5V, LDO Voltage Regulator	3-PFM	.96	.72	.54
TLV1117-15IKVURG3	296-19669-2-ND	1.5V, LDO Voltage Regulator	3-PFM	780.00/2,500		
TLV1117-18CDCYR	296-21108-1-ND	1.8V, LDO Voltage Regulator	SOT-223-4	.64	.48	.36
TLV1117-18CDCYR	296-21108-2-ND	1.8V, LDO Voltage Regulator	SOT-223-4	520.00/2,500		
TLV1117-18CKVURG3	296-23299-1-ND	1.8V, LDO Voltage Regulator ***NEW!***	3-PFM	.80	.60	.45
TLV1117-18CKVURG3	296-23299-2-ND	1.8V, LDO Voltage Regulator ***NEW!***	3-PFM	650.00/2,500		
TLV1117-18IDCYR	296-21109-1-ND	1.8V, LDO Voltage Regulator	SOT-223-4	.72	.54	.41
TLV1117-18IDCYR	296-21109-2-ND	1.8V, LDO Voltage Regulator	SOT-223-4	585.00/2,500		
TLV1117-18IKVURG3	296-20657-1-ND	1.8V, LDO Voltage Regulator	3-PFM	.96	.72	.54
TLV1117-18IKVURG3	296-20657-2-ND	1.8V, LDO Voltage Regulator	3-PFM	780.00/2,500		
TLV1117-25CDCYR	296-21110-1-ND	2.5V, LDO Voltage Regulator	SOT-223-4	.64	.48	.36
TLV1117-25CDCYR	296-21110-2-ND	2.5V, LDO Voltage Regulator	SOT-223-4	520.00/2,500		
TLV1117-25IDCYR	296-21111-1-ND	2.5V, LDO Voltage Regulator	SOT-223-4	.72	.54	.41
TLV1117-25IDCYR	296-21111-2-ND	2.5V, LDO Voltage Regulator	SOT-223-4	585.00/2,500		
TLV1117-33CDCYR	296-21112-1-ND	3.3V, LDO Voltage Regulator	SOT-223-4	.64	.48	.36
TLV1117-33CDCYR	296-21112-2-ND	3.3V, LDO Voltage Regulator	SOT-223-4	520.00/2,500		
TLV1117-33CDRJR	296-19749-1-ND	3.3V, LDO Voltage Regulator	8-SON	.88	.66	.50
TLV1117-33CDRJR	296-19749-2-ND	3.3V, LDO Voltage Regulator	8-SON	293.00/1,000		
TLV1117-33IDCYR	296-21113-1-ND	3.3V, LDO Voltage Regulator	SOT-223-4	.72	.54	.41
TLV1117-33IDCYR	296-21113-2-ND	3.3V, LDO Voltage Regulator	SOT-223-4	585.00/2,500		
TLV1117-33IKVURG3	296-20658-1-ND	3.3V, LDO Voltage Regulator	3-PFM	.96	.72	.54
TLV1117-33IKVURG3	296-20658-2-ND	3.3V, LDO Voltage Regulator	3-PFM	780.00/2,500		
TLV1117-50CDCYR	296-21114-1-ND	5V, LDO Voltage Regulator	SOT-223-4	.64	.48	.36
TLV1117-50CDCYR	296-21114-2-ND	5V, LDO Voltage Regulator	SOT-223-4	520.00/2,500		
TLV1117-50IDCYR	296-21115-1-ND	5V, LDO Voltage Regulator	SOT-223-4	.72	.54	.41
TLV1117-50IDCYR	296-21115-2-ND	5V, LDO Voltage Regulator	SOT-223-4	585.00/2,500		
TLV1117-50IDCYRG3	296-19634-1-ND	5V, LDO Voltage Regulator	SOT-223-4	.72	.54	.41
TLV1117-50IDCYRG3	296-19634-2-ND	5V, LDO Voltage Regulator	SOT-223-4	585.00/2,500		
TLV1117-50IDRJR	296-21116-1-ND	5V, LDO Voltage Regulator	8-SON	.81	.68	.54
TLV1117-50IDRJR	296-21116-2-ND	5V, LDO Voltage Regulator	8-SON	359.00/1,000		
TLV1117-50IKVURG3	296-19670-1-ND	5V, LDO Voltage Regulator	3-PFM	.96	.72	.54
TLV1117-50IKVURG3	296-19670-2-ND	5V, LDO Voltage Regulator	3-PFM	780.00/2,500		
TLV2217-18KCS	296-18905-5-ND	1.8V LDO PnP Fixed Voltage Regulator	TO-220	.84	.70	.56
TLV2217-18KVURG3	296-19519-1-ND	1.8V LDO PnP Fixed Voltage Regulator	3-PFM	.84	.70	.56
TLV2217-18KVURG3	296-19519-2-ND	1.8V LDO Pnp Fixed Voltage Regulator	3-PFM	910.00/2,500		
TLV2217-25KCSE3	296-21609-5-ND	2.5V LDO PnP Fixed Voltage Regulator	TO-220	.84	.70	.56
TLV2217-25KVURG3	296-21610-1-ND	2.5V LDO PnP Fixed Voltage Regulator	3-PFM	.84	.70	.56
TLV2217-25KVURG3	296-21610-2-ND	2.5V LDO PnP Fixed Voltage Regulator	3-PFM	910.00/2,500		
TLV2217-25PWR	296-18907-1-ND	2.5V LDO PnP Fixed Voltage Reg.	20-TSSOP	.84	.70	.56
TLV2217-25PWR	296-18907-2-ND	2.5V LDO PnP Fixed Voltage Reg.	20-TSSOP	744.00/2,000		
TLV2217-33KC	296-10502-5-ND	3.3V LDO PnP Fixed Voltage Reg.	TO-220AB	1.32	1.10	.88
TLV2217-33KCSE3	296-21611-5-ND	3.3V LDO PnP Fixed Voltage Regulator	TO-220	.84	.70	.56
TLV2217-33KTPR	296-10503-1-ND	3.3V LDO PnP Fixed Voltage Regulator	2-PFM	.84	.70	.56
TLV2217-33KTPR	296-10503-2-ND	3.3V LDO PnP Fixed Voltage Regulator	2-PFM	1092.00/3,000		
TLV2217-33KVURG3	296-19786-1-ND	3.3V LDO PnP Fixed Voltage Regulator	3-PFM	.84	.70	.56
TLV2217-33KVURG3	296-19786-2-ND	3.3V LDO PnP Fixed Voltage Regulator	3-PFM	910.00/2,500		
TLV2217-33PWR	296-12368-1-ND	3.3V LDO PnP Fixed Voltage Reg.	20-TSSOP	.84	.70	.56
TLV2217-33PWR	296-12368-2-ND	3.3V LDO PnP Fixed Voltage Reg.	20-TSSOP	744.00/2,000		
TPPM0110DWPR	296-10872-1-ND	5V, 1mA Dual LDO Regulator	20-HSOP	3.60	2.88	2.24
TPPM0110DWPR	296-10872-2-ND	5V, 1mA Dual LDO Regulator	20-HSOP	4080.00/2,000		
TPPM0111DWP	296-12507-5-ND	Dual LDO Linear Regulator	20-HSOP	3.60	2.88	2.24
TPPM0301DR	296-10873-1-ND	5V, 400mA LDO Voltage Regulator	8-SOIC	3.65	2.92	2.27
TPPM0301DR	296-10873-2-ND	5V, 400mA LDO Voltage Regulator	8-SOIC	5102.50/2,500		
TPPM0302DGN	296-10874-5-ND	5V, 400mA LDO Voltage Regulator	8-MSOP	3.65	2.92	2.27
TPPM0303DR	296-10875-1-ND	5V, 250mA LDO Regulator	8-SOIC	2.45	1.97	1.53
TPPM0303DR	296-10875-2-ND	5V, 250mA LDO Regulator	8-SOIC	3432.50/2,500		
TPS71H01QPWPR	296-8051-1-ND	Adjustable 500mA LDO Regulator	20-HTSSOP	4.95	3.96	3.08
TPS71H01QPWPR	296-8051-2-ND	Adjustable 500mA LDO Regulator	20-HTSSOP	5610.00/2,000		
TPS73HD301PWP	296-2666-5-ND	Dual Adjustable LDO Regulator	28-HTSSOP	4.73	3.78	2.94
TPS73HD318PWP	296-2667-5-ND	Dual 1.8V/3.3V 750mA LDO Reg.	28-HTSSOP	4.73	3.78	2.94
TPS73HD318PWPR	296-2667-1-ND	Dual 1.8V/3.3V 750mA LDO Reg.	28-HTSSOP	4.73	3.78	2.94
TPS73HD318PWPR	296-2667-2-ND	Dual 1.8V/3.3V 750mA LDO Reg.	28-HTSSOP	5356.00/2,000		
TPS73HD325PWPR	296-8071-1-ND	Dual 2.5V/3.3V 750mA LDO Reg.	28-HTSSOP	4.73	3.78	2.94
TPS73HD325PWPR	296-8071-2-ND	Dual 2.5V/3.3V 750mA LDO Reg.	28-HTSSOP	5356.00/2,000		
TPS712XXEVM-050	296-17873-ND	Evaluation Module for TPS712XX-050	—	10.20	—	—
TPS713XXEVM-050	296-21169-ND	Evaluation Module for TPS713XX	—	10.20	—	—
TPS715AXXEVM-065	296-21170-ND	Evaluation Module for TPS715AXX	—	10.20	—	—
TPS715A01DRBT	296-17614-1-ND	1.2V-15V, 80mA LDO Linear Regulator	8-SON	1.44	1.20	.96
TPS715A01DRBT	296-17614-2-ND	1.2V-15V, 80mA LDO Linear Regulator	8-SON	180.00/250		
TPS715A33DRBT	296-17615-1-ND	3.3V, 80mA LDO Linear Regulator	8-SON	1.44	1.20	.96
TPS715A33DRBT	296-17615-2-ND	3.3V, 80mA LDO Linear Regulator	8-SON	180.00/250		
TPS715A33DRVR	296-22584-1-ND	3.3V, 80mA LDO Linear Reg. ***NEW!***	6-SON	1.47	1.23	.98
TPS715A33DRVR	296-22584-2-ND	3.3V, 80mA LDO Linear Reg. ***NEW!***	6-SON	1911.00/3,000		
TPS758A01KTTR	296-21900-1-ND	Adjustable, 3A LDO Regulator	5-DDPAK	5.40	4.32	3.65
TPS758A01KTTR	296-21900-2-ND	Adjustable, 3A LDO Regulator	5-DDPAK	1714.50/500		
TPS767D301MPWPREP	296-21351-1-ND	Dual Adj. 1.8V/3.3V LDO Reg.	28-HTSSOP	6.80	5.44	4.59
TPS767D301MPWPREP	296-21351-2-ND	Dual Adj. 1.8V/3.3V LDO Reg.	28-HTSSOP	8500.00/2,000		
TPS767D301PWP	296-2740-5-ND	Dual Adj. 1.8V/3.3V LDO Reg.	28-HTSSOP	4.50	3.60	2.80
TPS767D301QPWPREP	296-22513-1-ND	Dual Adj. 1.8V/3.3V LDO Reg. ***NEW!***	28-HTSSOP	2.25	1.80	1.40
TPS767D301QPWPREP	296-22513-2-ND	Dual Adj. 1.8V/3.3V LDO Reg. ***NEW!***	28-HTSSOP	2550.00/2,000		
TPS767D301QPWPRQ1	296-19002-1-ND	Dual Adj. 1.8V/3.3V LDO Reg.	28-HTSSOP	5.18	4.14	3.22
TPS767D301QPWPRQ1	296-19002-2-ND	Dual Adj. 1.8V/3.3V LDO Reg.	28-HTSSOP	5866.00/2,000		
TPS767D318QPWPREP	296-22514-1-ND	Dual 1.8V/3.3V LDO Reg. ***NEW!***	28-HTSSOP	2.25	1.80	1.40
TPS767D318QPWPREP	296-22514-2-ND	Dual 1.8V/3.3V LDO Reg. ***NEW!***	28-HTSSOP	2550.00/2,000		
TPS767D318QPWPRQ1	296-19003-1-ND	Dual 1.8V/3.3V LDO Regulator	28-HTSSOP	5.18	4.14	3.22
TPS767D318QPWPRQ1	296-19003-2-ND	Dual 1.8V/3.3V LDO Regualtor	28-HTSSOP	5866.00/2,000		
TPS767D318PWP	296-2741-5-ND	Dual 1.8V/3.3V LDO Regulator	28-HTSSOP	4.50	3.60	2.80
TPS767D325PWP	296-2742-5-ND	Dual 2.5V/3.3V LDO Regulator	28-HTSSOP	4.50	3.60	2.80
TPS767D325QPWPREP	296-22515-1-ND	Dual 2.5V/3.3V LDO Reg. ***NEW!***	28-HTSSOP	2.25	1.80	1.40
TPS767D325QPWPREP	296-22515-2-ND	Dual 2.5V/3.3V LDO Reg. ***NEW!***	28-HTSSOP	2550.00/2,000		
TPS767D325QPWPRQ1	296-17532-1-ND	Dual 2.5V/3.3V LDO Regulator	28-HTSSOP	5.18	4.14	3.22
TPS767D325QPWPRQ1	296-17532-2-ND	Dual 2.5V/3.3V LDO Regulator	28-HTSSOP	5866.00/2,000		
TPS799XXEVM-105	296-21172-ND	Evaluation Module for TPS799XX	—	10.20	—	—
TPS2140IPWP	296-12564-5-ND	Adjustable LDO and 3.3V Switch with Dual Current Limit	14-HTSSOP	2.48	1.98	1.54
TPS2141IPWP	296-12565-5-ND	Adjustable LDO and 5V Switch with Dual Current Limit	14-HTSSOP	2.48	1.98	1.54
TPS2150IPWP	296-12566-5-ND	Adjustable LDO and 3.3V Switch with Dual Current Limit	14-HTSSOP	2.48	1.98	1.54
TPS2151IPWP	296-12567-5-ND	Adjustable LDO and 5V Switch with Dual Current Limit	14-HTSSOP	2.48	1.98	1.54
TPS7101QDR	296-1359-1-ND	Adj. 1.2V-9.75V, 500mA LDO Reg.	8-SOIC	2.81	2.25	1.75
TPS7101QDR	296-1359-2-ND	Adj. 1.2V-9.75V, 500mA LDO Reg.	8-SOIC	3937.50/2,500		
TPS7101QP	296-8041-5-ND	Adj. 1.2V-9.75V, 500mA LDO Reg.	8-Dip	2.81	2.25	1.75
TPS7101QPWR	296-8042-1-ND	Adj. 1.2V-9.75V, 500mA LDO Reg.	20-TSSOP	2.81	2.25	1.75
TPS7101QPWR	296-8042-2-ND	Adj. 1.2V-9.75V, 500mA LDO Reg.	20-TSSOP	3188.00/2,000		
TPS7133QD	296-2658-5-ND	3.3V, 500mA PMOS LDO Regulator	8-SOIC	2.81	2.25	1.75
TPS7133QP	296-8046-5-ND	3.3V, 500mA PMOS LDO Regulator	8-Dip	2.81	2.25	1.75
TPS7133QPWR	296-8047-1-ND	3.3V, 500mA PMOS LDO Regulator	20-TSSOP	2.81	2.25	1.75
TPS7133QPWR	296-8047-2-ND	3.3V, 500mA PMOS LDO Regulator	20-TSSOP	3188.00/2,000		
TPS7148QD	296-1961-5-ND	4.8V, 500mA LDO Regulator	8-SOIC	2.81	2.25	1.75
TPS7148QP	296-8048-5-ND	4.85V, 500mA LDO Regulator	8-Dip	2.81	2.25	1.75
TPS7150QD	296-8049-5-ND	5V, 500mA LDO Regulator	8-SOIC	2.81	2.25	1.75
TPS7150QP	296-8050-5-ND	5V, 500mA LDO Regulator	8-Dip	2.81	2.25	1.75
TPS7201QD	296-1360-5-ND	Adjustable 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7201QDR	296-1360-1-ND	Adjustable 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7201QDR	296-1360-2-ND	Adjustable 250mA LDO Regulator	8-SOIC	1920.00/2,500		
TPS7201QP	296-8052-5-ND	Adjustable 250mA LDO Regulator	8-Dip	1.50	1.20	.90
TPS7201QPWR	296-8053-1-ND	Adjustable 250mA LDO Regulator	8-TSSOP	1.50	1.20	.90
TPS7201QPWR	296-8053-2-ND	Adjustable 250mA LDO Regulator	8-TSSOP	1560.00/2,000		
TPS7225QD	296-1962-5-ND	2.5V, 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7225QP	296-1963-5-ND	2.5V, 250mA LDO Regulator	8-Dip	1.50	1.20	.90
TPS7225QPWR	296-8054-1-ND	2.5V, 250mA LDO Regulator	8-TSSOP	1.50	1.20	.90
TPS7225QPWR	296-8054-2-ND	2.5V, 250mA LDO Regulator	8-TSSOP	1560.00/2,000		
TPS7230QD	296-1964-5-ND	3.0V, 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7230QP	296-1965-5-ND	3.0V, 250mA LDO Regulator	8-Dip	1.50	1.20	.90
TPS7230QPWR	296-8055-1-ND	3.0V, 250mA LDO Regulator	8-TSSOP	1.50	1.20	.90
TPS7230QPWR	296-8055-2-ND	3.0V, 250mA LDO Regulator	8-TSSOP	1560.00/2,000		
TPS7233QD	296-1966-5-ND	3.3V, 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7233QP	296-8056-5-ND	3.3V, 250mA LDO Regulator	8-Dip	1.50	1.20	.90
TPS7233QPWR	296-8057-1-ND	3.3V, 250mA LDO Regulator	8-TSSOP	1.50	1.20	.90
TPS7233QPWR	296-8057-2-ND	3.3V, 250mA LDO Regulator	8-TSSOP	1560.00/2,000		
TPS7248QD	296-8058-5-ND	4.85V, 250mA PMOS LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7248QP	296-2659-5-ND	4.85V, 250mA PMOS LDO Regulator	8-Dip	1.50	1.20	.90
TPS7250QD	296-1361-5-ND	5.0V, 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7250QDR	296-1361-1-ND	5.0V, 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7250QDR	296-1361-2-ND	5.0V, 250mA LDO Regulator	8-SOIC	1920.00/2,500		
TPS7250QP	296-8059-5-ND	5.0V, 250mA LDO Regulator	8-Dip	1.50	1.20	.90
TPS7250QPWR	296-8060-1-ND	5.0V, 250mA LDO Regulator	8-TSSOP	1.50	1.20	.90
TPS7250QPWR	296-8060-2-ND	5.0V, 250mA LDO Regulator	8-TSSOP	1560.00/2,000		
TPS7301QD	296-1362-5-ND	Adjustable 500mA LDO Regulator	8-SOIC	2.36	1.89	1.47
TPS7301QDR	296-1362-1-ND	Adjustable 500mA LDO Regulator	8-SOIC	2.36	1.89	1.47
TPS7301QDR	296-1362-2-ND	Adjustable 500mA LDO Regulator	8-SOIC	3307.50/2,500		
TPS7301QP	296-2660-5-ND	Adjustable 500mA LDO Regulator	8-Dip	2.36	1.89	1.47
TPS7301QPW	296-8061-5-ND	Adjustable 500mA LDO Regulator	20-TSSOP	2.36	1.89	1.47
TPS7325QD	296-2661-5-ND	2.5V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7325QP	296-8062-5-ND	2.5V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.48	1.98	1.49
TPS7325QPWR	296-8063-1-ND	2.5V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2.48	1.98	1.49
TPS7325QPWR	296-8063-2-ND	2.5V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2574.00/2,000		
TPS7330QD	296-2662-5-ND	3.0V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7330QDR	296-2662-1-ND	3.0V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7330QDR	296-2662-2-ND	3.0V, 500mA LDO Regulator with Delayed Reset	8-SOIC	3167.50/2,500		
TPS7330QP	296-8064-5-ND	3.0V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.48	1.98	1.49
TPS7330QPWR	296-8065-1-ND	3.0V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2.48	1.98	1.49
TPS7330QPWR	296-8065-2-ND	3.0V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2574.00/2,000		
TPS7333QD	296-8066-5-ND	3.3V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7333QDR	296-8066-1-ND	3.3V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7333QDR	296-8066-2-ND	3.3V, 500mA LDO Regulator with Delayed Reset	8-SOIC	3167.50/2,500		
TPS7333QP	296-2663-5-ND	3.3V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.48	1.98	1.49
TPS7333QPWR	296-8067-1-ND	3.3V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2.48	1.98	1.49
TPS7333QPWR	296-8067-2-ND	3.3V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2574.00/2,000		
TPS7348QD	296-8068-5-ND	4.85V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7348QDR	296-8068-1-ND	4.85V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7348QDR	296-8068-2-ND	4.85V, 500mA LDO Regulator with Delayed Reset	8-SOIC	3167.50/2,500		
TPS7348QP	296-2664-5-ND	4.85V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.48	1.98	1.49

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS7350QD	296-8069-5-ND	5.0V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7350QP	296-2665-5-ND	5.0V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.48	1.98	1.49
TPS7350QPWR	296-8070-1-ND	5.0V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2.48	1.98	1.49
TPS7350QPWR	296-8070-2-ND	5.0V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2574.00/2,000		
TPS7415D	296-2668-5-ND	1.5V, 200mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7418D	296-2669-5-ND	1.8V, 200mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7425D	296-2670-5-ND	2.5V, 200mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7430D	296-2671-5-ND	3.0V, 200mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7433D	296-2672-5-ND	3.3V, 200mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS70102PWP	296-2652-5-ND	Dual, Adj., 500mA LDO Reg.	20-HTSSOP	3.38	2.70	2.10
TPS70145PWP	296-2653-5-ND	Dual, 3.3V/1.2V, 500mA LDO Reg.	20-HTSSOP	3.38	2.70	2.10
TPS70148PWP	296-2654-5-ND	Dual, 3.3V/1.5V, 500mA LDO Reg.	20-HTSSOP	3.38	2.70	2.10
TPS70151EVM-152	296-10986-ND	Evaluation Module for TPS7015	—	101.00	—	—
TPS70151PWP	296-2655-5-ND	Dual, 3.3V/1.8V, 500mA LDO Reg.	20-HTSSOP	3.38	2.70	2.10
TPS70158PWP	296-2656-5-ND	Dual, 3.3V/2.5V, 500mA LDO Reg.	20-HTSSOP	3.38	2.70	2.10
TPS70202PWP	296-8016-5-ND	Dual, Adj., 500mA LDO Reg.	20-HTSSOP	3.38	2.70	2.10
TPS70245PWP	296-8017-5-ND	Dual, 3.3V/1.2V, 500mA/250mA LDO Regulator	20-HTSSOP	3.38	2.70	2.10
TPS70248PWP	296-8018-5-ND	Dual, 3.3V/1.5V, 500mA/250mA LDO Regulator	20-HTSSOP	3.38	2.70	2.10
TPS70251PWP	296-8019-5-ND	Dual, 3.3V/1.8V, 500mA/250mA LDO Regulator	20-HTSSOP	3.38	2.70	2.10
TPS70258PWP	296-8020-5-ND	Dual, 3.3V/2.5V, 500mA/250mA LDO Regulator	20-HTSSOP	3.38	2.70	2.10
TPS70302PWP	296-8021-5-ND	Dual, Adj., 1A/2A LDO Regulator	24-HTSSOP	5.29	4.23	3.29
TPS70345MPWPREP	296-21274-1-ND	Dual, 3.3V/1.2V, 1A/2A LDO Reg.	SOT-23-5	8.00	6.40	5.40
TPS70345MPWPREP	296-21274-2-ND	Dual, 3.3V/1.2V, 1A/2A LDO Reg.	SOT-23-5	10000.00/2,000		
TPS70345PWP	296-8022-5-ND	Dual, 3.3V/1.2V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70348PWP	296-8023-5-ND	Dual, 3.3V/1.5V, 1A/2A LDO Reg.	20-HTSSOP	5.29	4.23	3.29
TPS70351EVM-165	296-10987-ND	Evaluation Module for TPS70351	—	101.00	—	—
TPS70351PWP	296-8024-5-ND	Dual, 3.3V/1.8V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70358PWP	296-8025-5-ND	Dual, 3.3V/2.5V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70402PWP	296-8026-5-ND	Dual, Adj., 1A/2A LDO Regulator	24-HTSSOP	5.29	4.23	3.29
TPS70445PWP	296-8027-5-ND	Dual, 3.3V/1.2V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70448PWP	296-8028-5-ND	Dual, 3.3V/1.5V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70451PWP	296-8029-5-ND	Dual, 3.3V/1.8V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70458PWP	296-8030-5-ND	Dual, 3.3V/2.5V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70702PWP	296-8031-5-ND	Dual, Adj., 1A/2A LDO Regulator	24-HTSSOP	2.70	2.16	1.68
TPS70745PWP	296-8032-5-ND	Dual, 3.3V/1.2V, 250mA/125mA LDO Regulator	24-HTSSOP	2.70	2.16	1.68
TPS70748PWP	296-8033-5-ND	Dual, 3.3V/1.5V, 250mA/125mA LDO Regulator	24-HTSSOP	2.70	2.16	1.68
TPS70751MPWPREP	296-22479-1-ND	Dual, 3.3V/1.8V, 250mA/125mA LDO Regulator ***NEW!***	24-HTSSOP	6.12	4.90	4.14
TPS70751MPWPREP	296-22479-2-ND	Dual, 3.3V/1.8V, 250mA/125mA LDO Regulator ***NEW!***	24-HTSSOP	7650.00/2,000		
TPS70751PWP	296-8034-5-ND	Dual, 3.3V/1.8V, 250mA/125mA LDO Regulator	24-HTSSOP	2.70	2.16	1.68
TPS70758PWP	296-8035-5-ND	Dual, 3.3V/2.5V, 250mA/125mA LDO Regulator	24-HTSSOP	2.70	2.16	1.68
TPS70802PWP	296-8036-5-ND	Dual, Adjustable, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS70845PWP	296-8037-5-ND	Dual, 3.3V/1.2V, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS70848PWP	296-8038-5-ND	Dual, 3.3V/1.5V, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS70851PWP	296-8039-5-ND	Dual, 3.3V/1.8V, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS70858PWP	296-8040-5-ND	Dual, 3.3V/2.5V, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS71025D	296-8043-5-ND	2.5V, 500mA LDO Regulator	8-SOIC	2.81	2.25	1.75
TPS71025DR	296-8043-1-ND	2.5V, 500mA LDO Regulator	8-SOIC	2.81	2.25	1.75
TPS71025DR	296-8043-2-ND	2.5V, 500mA LDO Regulator	8-SOIC	3937.50/2,500		
TPS71025P	296-2657-5-ND	2.5V, 500mA LDO Regulator	8-Dip	2.81	2.25	1.75
TPS71025PWR	296-8045-1-ND	2.5V, 500mA LDO Regulator	20-TSSOP	2.81	2.25	1.75
TPS71025PWR	296-8045-2-ND	2.5V, 500mA LDO Regulator	20-TSSOP	3188.00/2,000		
TPS71202DRCT	296-17696-1-ND	Dual 250mA Output, LDO Linear Reg.	10-SON	2.25	1.80	1.35
TPS71202DRCT	296-17696-2-ND	Dual 250mA Output, LDO Linear Reg.	10-SON	315.00/250		
TPS71219DRCT	296-17697-1-ND	1.8V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	2.25	1.80	1.35
TPS71219DRCT	296-17697-2-ND	1.8V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	315.00/250		
TPS71229DRCT	296-17698-1-ND	2.8V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	2.25	1.80	1.35
TPS71229DRCT	296-17698-2-ND	2.8V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	315.00/250		
TPS71247DRCT	296-17699-1-ND	1.8V/2.85V, Dual 250mA Output, LDO Linear Regulator	10-SON	2.25	1.80	1.35
TPS71247DRCT	296-17699-2-ND	1.8V/2.85V, Dual 250mA Output, LDO Linear Regulator	10-SON	315.00/250		
TPS71256DRCT	296-18281-1-ND	2.8V/2.8V, Dual 250mA Output, Ultra Low Noise, High PSRR, LDO Regulator	10-SON	2.25	1.80	1.35
TPS71256DRCT	296-18281-2-ND	2.8V/2.8V, Dual 250mA Output, Ultra Low Noise, High PSRR, LDO Regulator	10-SON	315.00/250		
TPS71257DRCT	296-17700-1-ND	2.85V/2.85V, Dual 250mA Output, LDO Linear Regulator	10-SON	2.25	1.80	1.35
TPS71257DRCT	296-17700-2-ND	2.85V/2.85V, Dual 250mA Output, LDO Linear Regulator	10-SON	315.00/250		
TPS71319DRCT	296-17739-1-ND	1.8V/Adj., Dual 250mA, Ultra Low Noise, High PSRR LDO Linear Regulator	10-SON	2.48	1.98	1.49
TPS71319DRCT	296-17739-2-ND	1.8V/Adj., Dual 250mA, Ultra Low Noise, High PSRR LDO Linear Regulator	10-SON	346.50/250		
TPS71334DRCT	296-17701-1-ND	3.3V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	2.48	1.98	1.49
TPS71334DRCT	296-17701-2-ND	3.3V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	346.50/250		
TPS71501DCKR	296-12957-1-ND	High Input Voltage, Micropower, LDO Linear Regulator	SC70-5	1.02	.85	.68
TPS71501DCKR	296-12957-2-ND	High Input Voltage, Micropower, LDO Linear Regulator	SC70-5	1326.00/3,000		
TPS71501QDCKRQ1	296-17748-1-ND	High Input Volt., MPU, LDO Linear Reg.	SC70-5	1.20	1.00	.80
TPS71501QDCKRQ1	296-17748-2-ND	High Input Voltage, Micropower, LDO Linear Regulator	SC70-5	1560.00/3,000		
TPS71518DCKR	296-18731-1-ND	1.8V, 50mA LDO Regulator	SC70-5	1.02	.85	.68
TPS71518DCKR	296-18731-2-ND	1.8V, 50mA LDO Regulator	SC70-5	1326.00/3,000		
TPS71519DCKR	296-19479-1-ND	24V, 50mA, LDO Regulator	SC70-5	1.02	.85	.68
TPS71519DCKR	296-19479-2-ND	24V, 50mA, LDO Regulator	SC70-5	1326.00/3,000		
TPS71523DCKR	296-19480-1-ND	24V, 50mA, LDO Regulator	SC70-5	1.02	.85	.68
TPS71523DCKR	296-19480-2-ND	24V, 50mA, LDO Regulator	SC70-5	1326.00/3,000		
TPS71525DCKR	296-12007-1-ND	2.5V, 50mA High Input LDO	SC70-5	1.02	.85	.68
TPS71525DCKR	296-12007-2-ND	2.5V, 50mA High Input LDO	SC70-5	1326.00/3,000		
TPS71525QDCKRQ1	296-20694-1-ND	2.5V, 50mA High Input LDO	SC70-5	1.20	1.00	.80
TPS71525QDCKRQ1	296-20694-2-ND	2.5V, 50mA High Input LDO	SC70-5	1560.00/3,000		
TPS71530DCKR	296-15045-1-ND	3V, 50mA High Input LDO	SOT-323-5	1.02	.85	.68
TPS71530DCKR	296-15045-2-ND	3V, 50mA High Input LDO	SOT-323-5	1326.00/3,000		
TPS71533DCKR	296-12008-1-ND	3.3V, 50mA High Input LDO	SC70-5	1.02	.85	.68
TPS71533DCKR	296-12008-2-ND	3.3V, 50mA High Input LDO	SC70-5	1326.00/3,000		
TPS71533EVM	296-13590-ND	Evaluation Module for TPS71533	—	50.00	—	—
TPS71533QDCKRQ1	296-20667-1-ND	3.3V, 50mA High Input LDO	SC70-5	1.20	1.00	.80
TPS71533QDCKRQ1	296-20667-2-ND	3.3V, 50mA High Input LDO	SC70-5	1560.00/3,000		
TPS71550DCKR	296-15046-1-ND	5V, 50mA High Input LDO	SOT-323-5	1.02	.85	.68
TPS71550DCKR	296-15046-2-ND	5V, 50mA High Input LDO	SOT-323-5	1326.00/3,000		
TPS71550QDCKRQ1	296-18037-1-ND	24V, 50mA, 3.2µA Supply Current LDO Linear Regulator	SC70-5	1.20	1.00	.80
TPS71550QDCKRQ1	296-18037-2-ND	24V, 50mA, 3.2µA Supply Current LDO Linear Regulator	SC70-5	1560.00/3,000		
TPS717XXEVM-134	296-19614-ND	Evaluation Module for TPS717XX	—	10.20	—	—
TPS71701DCKR	296-22896-1-ND	Adj., 150mA Low Noise High Bandwidth PSRR LDO Linear Reg. ***NEW!***	SC70-5	1.35	1.13	.90
TPS71701DCKR	296-22896-2-ND	Adj., 150mA Low Noise High Bandwidth PSRR LDO Linear Reg. ***NEW!***	SC70-5	1755.00/3,000		
TPS71709DSER	296-22053-1-ND	0.9V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	6-SON	1.29	1.08	.86
TPS71709DSER	296-22053-2-ND	0.9V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	6-SON	1677.00/3,000		
TPS71710DCKR	296-21524-1-ND	1V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Regulator	SC70-5	1.35	1.13	.90
TPS71710DCKR	296-21524-2-ND	1V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Regulator	SC70-5	1755.00/3,000		
TPS71710DRVR	296-22984-1-ND	1V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	6-SON	1.25	1.00	.75
TPS71710DRVR	296-22984-2-ND	1V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	6-SON	1920.00/3,000		
TPS71711DCKR	296-23172-1-ND	1.1V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	SC70-5	1.35	1.13	.90
TPS71711DCKR	296-23172-2-ND	1.1V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	SC70-5	1755.00/3,000		
TPS71712DCKR	296-22480-1-ND	1.2V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	SC70-5	1.35	1.13	.90
TPS71712DCKR	296-22480-2-ND	1.2V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	SC70-5	1755.00/3,000		
TPS71713DCKR	296-21350-1-ND	1.3V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Regulator	SC70-5	1.35	1.13	.90
TPS71713DCKR	296-21350-2-ND	1.3V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Regulator	SC70-5	1198.00/2,000		
TPS71715DCKR	296-21504-1-ND	1.5V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Regulator	SC70-5	1.35	1.13	.90
TPS71715DCKR	296-21504-2-ND	1.5V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Regulator	SC70-5	1755.00/3,000		
TPS71718DCKR	296-19646-1-ND	1.8V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Regulator	SC70-5	1.35	1.13	.90
TPS71718DCKR	296-19646-2-ND	1.8V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Regulator	SC70-5	1755.00/3,000		
TPS71718DSER	296-22659-1-ND	1.8V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	6-SON	1.35	1.13	.90
TPS71718DSER	296-22659-2-ND	1.8V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	6-SON	1755.00/3,000		
TPS71719DCKR	296-22679-1-ND	1.9V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	SC70-5	1.35	1.13	.90
TPS71719DCKR	296-22679-2-ND	1.9V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	SC70-5	1755.00/3,000		
TPS71725DCKR	296-21525-1-ND	2.5V, 150mA LDO Regulator	SC70-5	1.35	1.13	.90
TPS71725DCKR	296-21525-2-ND	2.5V, 150mA LDO Regulator	SC70-5	1755.00/3,000		
TPS71726DCKR	296-19647-1-ND	2.6V, 150mA LDO Regulator	SC70-5	1.35	1.13	.90
TPS71726DCKR	296-19647-2-ND	2.6V, 150mA LDO Regulator	SC70-5	1755.00/3,000		
TPS71727DCKR	296-19648-1-ND	2.7V, 150mA LDO Regulator	SC70-5	1.35	1.13	.90
TPS71727DCKR	296-19648-2-ND	2.7V, 150mA LDO Regulator	SC70-5	1755.00/3,000		
TPS71728DCKR	296-19650-1-ND	2.8V, 150mA LDO Regulator	SC70-5	1.35	1.13	.90
TPS71728DCKR	296-19650-2-ND	2.8V, 150mA LDO Regulator	SC70-5	1755.00/3,000		
TPS71728DSER	296-21976-1-ND	2.8V, 150mA LDO Regulator	6-SON	1.29	1.08	.86
TPS71728DSER	296-21976-2-ND	2.8V, 150mA LDO Regulator	6-SON	1677.00/3,000		
TPS71729DCKR	296-22481-1-ND	2.9V, 150mA LDO Reg. ***NEW!***	SC70-5	1.35	1.13	.90
TPS71729DCKR	296-22481-2-ND	2.9V, 150mA LDO Reg. ***NEW!***	SC70-5	1755.00/3,000		
TPS71730DCKR	296-19674-1-ND	3V, 150mA LDO Regulator	SC70-5	1.35	1.13	.90
TPS71730DCKR	296-19674-2-ND	3V, 150mA LDO Regulator	SC70-5	1755.00/3,000		
TPS71733DCKR	296-19675-1-ND	3.3V, 150mA LDO Regulator	SC70-5	1.35	1.13	.90
TPS71733DCKR	296-19675-2-ND	3.3V, 150mA LDO Regulator	SC70-5	1755.00/3,000		
TPS71733DRVT	296-20695-1-ND	3.3V, 150mA LDO Regulator	6-SON	1.38	1.10	.83
TPS71733DRVT	296-20695-2-ND	3.3V, 150mA LDO Regulator	6-SON	192.50/250		
TPS71733DSER	296-22054-1-ND	3.3V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	6-SON	1.29	1.08	.86
TPS71733DSER	296-22054-2-ND	3.3V, 150mA Low Noise, High Bandwidth PSRR LDO Linear Reg. ***NEW!***	6-SON	1677.00/3,000		
TPS71812-33DRVR	296-22009-1-ND	3.3V, Dual, 200mA Output, Low Noise, High PSRR LDO Linear Reg. ***NEW!***	6-SON	1.75	1.40	1.05
TPS71812-33DRVR	296-22009-2-ND	3.3V, Dual, 200mA Output, Low Noise, High PSRR LDO Linear Reg. ***NEW!***	6-SON	2688.00/3,000		
TPS71818-27YZCR	296-22985-1-ND	2.7V, Dual 200mA Output, High Performance, LDO Regulator ***NEW!***	6-DSBGA	1.75	1.40	1.05
TPS71818-27YZCR	296-22985-2-ND	2.7V, Dual 200mA Output, High Performance, LDO Regulator ***NEW!***	6-DSBGA	2688.00/3,000		
TPS71828-28YZCR	296-22986-1-ND	2.8V, Dual 200mA Output, High Performance, LDO Regulator ***NEW!***	6-DSBGA	1.75	1.40	1.05

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS71828-28YZCR	296-22986-2-ND	2.8V, Dual 200mA Output, High Performance, LDO Regulator ***NEW!***	6-DSBGA	2688.00/3,000		
TPS71828-30DRVR	296-22482-1-ND	3V, Dual, 200mA Output, High Performance, LDO Regulator ***NEW!***	6-SON	1.75	1.40	1.05
TPS71828-30DRVR	296-22482-2-ND	3V, Dual, 200mA Output, High Performance, LDO Regulator ***NEW!***	6-SON	2688.00/3,000		
TPS71913-28DRVR	296-22483-1-ND	2.8V, Dual, 200mA Output, High Performance, LDO Regulator ***NEW!***	6-SON	1.75	1.40	1.05
TPS71913-28DRVR	296-22483-2-ND	2.8V, Dual, 200mA Output, High Performance, LDO Regulator ***NEW!***	6-SON	2688.00/3,000		
TPS71918-12DRVR	296-22010-1-ND	1.2V, Dual, 200mA Output, High Performance, LDO Regulator ***NEW!***	6-SON	1.75	1.40	1.05
TPS71918-12DRVR	296-22010-2-ND	1.2V, Dual, 200mA Output, High Performance, LDO Regulator ***NEW!***	6-SON	2688.00/3,000		
TPS71926-15DRVR	296-21659-1-ND	1.5V, Dual, 200mA Output, High Performance, LDO Regulator	6-SON	1.75	1.40	1.05
TPS71926-15DRVR	296-21659-2-ND	1.5V, Dual, 200mA Output, High Performance, LDO Regulator	6-SON	2688.00/3,000		
TPS71928-28DRVR	296-21660-1-ND	2.8V, Dual, 200mA Output, High Performance, LDO Regulator	6-SON	1.75	1.40	1.05
TPS71928-28DRVR	296-21660-2-ND	2.8V, Dual, 200mA Output, High Performance, LDO Regulator	6-SON	2688.00/3,000		
TPS71933-28DRVR	296-21661-1-ND	2.8V, Dual, 200mA Output, High Performance, LDO Regulator	6-SON	1.75	1.40	1.05
TPS71933-28DRVR	296-21661-2-ND	2.8V, Dual, 200mA Output, High Performance, LDO Regulator	6-SON	2688.00/3,000		
TPS71933-33DRVR	296-21662-1-ND	3.3V, Dual, 200mA Output, High Performance, LDO Regulator	6-SON	1.75	1.40	1.05
TPS71933-33DRVR	296-21662-2-ND	3.3V, Dual, 200mA Output, High Performance, LDO Regulator	6-SON	2688.00/3,000		
TPS72101DBVT	296-13004-1-ND	Low Input Voltage, Cap Free 150mA LDO Linear Regulator	SOT-23-5	1.35	1.13	.90
TPS72101DBVT	296-13004-2-ND	Low Input Voltage, Cap Free 150mA LDO Linear Regulator	SOT-23-5	168.75/250		
TPS72115DBVT	296-12518-1-ND	1.5V, 150mA LDO Regulator	SOT-23-5	1.35	1.13	.90
TPS72115DBVT	296-12518-2-ND	1.5V, 150mA LDO Regulator	SOT-23-5	168.75/250		
TPS72116DBVT	296-12519-1-ND	1.6V, 150mA LDO Regulator	SOT-23-5	1.35	1.13	.90
TPS72116DBVT	296-12519-2-ND	1.6V, 150mA LDO Regulator	SOT-23-5	168.75/250		
TPS72118DBVT	296-12520-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	1.35	1.13	.90
TPS72118DBVT	296-12520-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	168.75/250		
TPS72201DBVR	296-17874-1-ND	Adj., 50mA LDO Linear Regulator	SOT-23-5	1.23	1.03	.82
TPS72201DBVR	296-17874-2-ND	Adj., 50mA LDO Linear Regulator	SOT-23-5	1599.00/3,000		
TPS72201DBVT	296-15677-1-ND	Adj., 50mA LDO Linear Regulator	SOT-23-5	1.35	1.13	.90
TPS72201DBVT	296-15677-2-ND	Adj., 50mA LDO Linear Regulator	SOT-23-5	168.75/250		
TPS72215DBVT	296-12521-1-ND	1.5V, 50mA Low Vin, LDO Reg.	SOT-23-5	1.35	1.13	.90
TPS72215DBVT	296-12521-2-ND	1.5V, 50mA Low Vin, LDO Reg.	SOT-23-5	168.75/250		
TPS72216DBVT	296-12522-1-ND	1.6V, 50mA Low Vin, LDO Reg.	SOT-23-5	1.35	1.13	.90
TPS72216DBVT	296-12522-2-ND	1.6V, 50mA Low Vin, LDO Reg.	SOT-23-5	168.75/250		
TPS72218DBVT	296-12523-1-ND	1.8V, 50mA Low Vin, LDO Reg.	SOT-23-5	1.35	1.13	.90
TPS72218DBVT	296-12523-2-ND	1.8V, 50mA Low Vin, LDO Reg.	SOT-23-5	168.75/250		
TPS72301DBVT	296-15798-1-ND	Adj., 200mA LDO Regulator	SOT-23-5	2.70	2.16	1.68
TPS72301DBVT	296-15798-2-ND	Adj., 200mA LDO Regulator	SOT-23-5	399.00/250		
TPS72325DBVT	296-15799-1-ND	2.5V, 200mA LDO Regulator	SOT-23-5	2.70	2.16	1.68
TPS72325DBVT	296-15799-2-ND	2.5V, 200mA LDO Regulator	SOT-23-5	399.00/250		
TPS72501DCQR	296-13524-1-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	SOT-223-6	2.48	1.98	1.54
TPS72501DCQR	296-13524-2-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	SOT-223-6	3465.00/2,500		
TPS72501DT	296-13805-1-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	8-SOIC	4.61	3.69	2.87
TPS72501DT	296-13805-2-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	8-SOIC	681.75/250		
TPS72501KTTR	296-22877-1-ND	Adj., Low Input Voltage, 1A LDO Linear Reg. with Supervisor ***NEW!***	5-DDPAK	2.93	2.34	1.82
TPS72501KTTR	296-22877-2-ND	Adj., Low Input Voltage, 1A LDO Linear Reg. with Supervisor ***NEW!***	5-DDPAK	845.00/500		
TPS72501KTTT	296-13525-1-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	DDPAK-5	2.93	2.34	—
TPS72501KTTT	296-13525-2-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	DDPAK-5	91.00/50		
TPS72515DCQR	296-12692-1-ND	1.5V, 1A LDO Linear Regulator	SOT-223-6	2.48	1.98	1.54
TPS72515DCQR	296-12692-2-ND	1.5V, 1A LDO Linear Regulator	SOT-223-6	3465.00/2,500		
TPS72515KTTT	296-12693-1-ND	1.5V, 1A LDO Linear Regulator	TO-263-5	2.93	2.34	—
TPS72515KTTT	296-12693-2-ND	1.5V, 1A LDO Linear Regulator	TO-263-5	91.00/50		
TPS72516DCQ	296-14393-5-ND	1.6V, 1A LDO Linear Regulator	SOT-223-6	2.48	1.98	1.54
TPS72516DCQR	296-14420-1-ND	1.6V, 1A LDO Linear Regulator	SOT-223-6	2.48	1.98	1.54
TPS72516DCQR	296-14420-2-ND	1.6V, 1A LDO Linear Regulator	SOT-223-6	3465.00/2,500		
TPS72516KTTT	296-15951-1-ND	1.6V, 1A LDO Linear Regulator	5-DDPAK	2.93	2.34	—
TPS72516KTTT	296-15951-2-ND	1.6V, 1A LDO Linear Regulator	5-DDPAK	91.00/50		
TPS72518DCQR	296-12694-1-ND	1.8V, 1A LDO Linear Regulator	SOT-223-6	2.48	1.98	1.54
TPS72518DCQR	296-12694-2-ND	1.8V, 1A LDO Linear Regulator	SOT-223-6	3465.00/2,500		
TPS72518EVM-207	296-20624-ND	Evaluation Module for TPS72518	—	50.00	—	—
TPS72518KTTT	296-12695-1-ND	1.8V, 1A LDO Linear Regulator	TO-263-5	2.93	2.34	—
TPS72518KTTT	296-12695-2-ND	1.8V, 1A LDO Linear Regulator	TO-263-5	91.00/50		
TPS72525DCQR	296-12696-1-ND	2.5V, 1A LDO Linear Regulator	SOT-223-6	2.48	1.98	1.54
TPS72525DCQR	296-12696-2-ND	2.5V, 1A LDO Linear Regulator	SOT-223-6	3465.00/2,500		
TPS72525KTTT	296-12697-1-ND	2.5V, 1A LDO Linear Regulator	TO-263-5	2.93	2.34	—
TPS72525KTTT	296-12697-2-ND	2.5V, 1A LDO Linear Regulator	TO-263-5	91.00/50		
TPS72615DCQR	296-12958-1-ND	1.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-6	2.48	1.98	1.54
TPS72615DCQR	296-12958-2-ND	1.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-6	3465.00/2,500		
TPS72615KTTT	296-13751-1-ND	1.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	2.93	2.34	—
TPS72615KTTT	296-13751-2-ND	1.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	91.00/50		
TPS72616DCQR	296-13705-1-ND	1.6V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-6	2.48	1.98	1.54
TPS72616DCQR	296-13705-2-ND	1.6V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-6	3465.00/2,500		
TPS72616KTTT	296-13752-1-ND	1.6V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	2.93	2.34	—
TPS72616KTTT	296-13752-2-ND	1.6V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	91.00/50		
TPS72618DCQR	296-12959-1-ND	1.8V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-6	2.48	1.98	1.54
TPS72618DCQR	296-12959-2-ND	1.8V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-6	3465.00/2,500		
TPS72618KTTT	296-13753-1-ND	1.8V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	2.93	2.34	—
TPS72618KTTT	296-13753-2-ND	1.8V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	91.00/50		
TPS72625DCQR	296-12960-1-ND	2.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-6	2.48	1.98	1.54
TPS72625DCQR	296-12960-2-ND	2.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-6	3465.00/2,500		
TPS72625KTTT	296-13754-1-ND	2.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	2.93	2.34	—
TPS72625KTTT	296-13754-2-ND	2.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	91.00/50		
TPS73001DBVT	296-17576-1-ND	1.22V to 5.5V LDO Regulator	SOT-23-5	.76	.57	.43
TPS73001DBVT	296-17576-2-ND	1.22V to 5.5V LDO Regulator	SOT-23-5	78.75/250		
TPS73018DBVT	296-17577-1-ND	1.8V LDO Regulator	SOT-23-5	.76	.57	.43
TPS73018DBVT	296-17577-2-ND	1.8V LDO Regulator	SOT-23-5	78.75/250		
TPS73025DBVR	296-17578-1-ND	2.5V LDO Regulator	SOT-23-5	.68	.51	.39
TPS73025DBVR	296-17578-2-ND	2.5V LDO Regulator	SOT-23-5	663.00/3,000		
TPS73028DBVT	296-18063-1-ND	2.8V, 200mA, Low Noise, High PSRR, LDO Linear Regulator	SOT-23-5	.76	.57	.43
TPS73028DBVT	296-18063-2-ND	2.8V, 200mA, Low Noise, High PSRR, LDO Linear Regulator	SOT-23-5	78.75/250		
TPS73028YZQR	296-21562-1-ND	2.8V, 200mA, Low Noise, High PSRR, LDO Linear Regulator	5-DSBGA	.84	.63	.48
TPS73028YZQR	296-21562-2-ND	2.8V, 200mA, Low Noise, High PSRR, LDO Linear Regulator	5-DSBGA	819.00/3,000		
TPS73028YZQT	296-18734-1-ND	2.8V, 200mA, Low Noise, High PSRR, LDO Linear Regulator	5-DSBGA	.92	.69	.52
TPS73028YZQT	296-18734-2-ND	2.8V, 200mA, Low Noise, High PSRR, LDO Linear Regulator	5-DSBGA	95.50/250		
TPS73030DBVT	296-17579-1-ND	3V LDO Regulator	SOT-23-5	.76	.57	.43
TPS73030DBVT	296-17579-2-ND	3V LDO Regulator	SOT-23-5	78.75/250		
TPS73033DBVR	296-17580-1-ND	3.3V LDO Regulator	SOT-23-5	.72	.54	.41
TPS73033DBVR	296-17580-2-ND	3.3V LDO Regulator	SOT-23-5	702.00/3,000		
TPS73047DBVR	296-20713-1-ND	200mA LDO Regulator	SOT-23-5	.76	.57	.43
TPS73047DBVR	296-20713-2-ND	200mA LDO Regulator	SOT-23-5	741.00/3,000		
TPS73101DBVT	296-15800-1-ND	Adj., 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73101DBVT	296-15800-2-ND	Adj., 150mA LDO Regulator	SOT-23-5	180.00/250		
TPS73101MDBVREP	296-21275-1-ND	Adj., 150mA LDO Regulator	SOT-23-5	2.48	1.98	1.54
TPS73101MDBVREP	296-21275-2-ND	Adj., 150mA LDO Regulator	SOT-23-5	4158.00/3,000		
TPS73115DBVT	296-15801-1-ND	1.5V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73115DBVT	296-15801-2-ND	1.5V, 150mA LDO Regulator	SOT-23-5	180.00/250		
TPS73115MDBVREP	296-22484-1-ND	1.5V, 150mA LDO Reg. ***NEW!***	SOT-23-5	2.48	1.98	1.54
TPS73115MDBVREP	296-22484-2-ND	1.5V, 150mA LDO Reg. ***NEW!***	SOT-23-5	4158.00/3,000		
TPS73118DBVT	296-15802-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73118DBVT	296-15802-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	180.00/250		
TPS73118MDBVREP	296-22485-1-ND	1.8V, 150mA LDO Reg. ***NEW!***	SOT-23-5	2.48	1.98	1.54
TPS73118MDBVREP	296-22485-2-ND	1.8V, 150mA LDO Reg. ***NEW!***	SOT-23-5	4158.00/3,000		
TPS73125DBVT	296-15803-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73125DBVT	296-15803-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	180.00/250		
TPS73125MDBVREP	296-22486-1-ND	2.5V, 150mA LDO Reg. ***NEW!***	SOT-23-5	2.48	1.98	1.54
TPS73125MDBVREP	296-22486-2-ND	2.5V, 150mA LDO Reg. ***NEW!***	SOT-23-5	4158.00/3,000		
TPS73130DBVT	296-15804-1-ND	3V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73130DBVT	296-15804-2-ND	3V, 150mA LDO Regulator	SOT-23-5	180.00/250		
TPS73130MDBVREP	296-22487-1-ND	3V, 150mA LDO Reg. ***NEW!***	SOT-23-5	2.48	1.98	1.54
TPS73130MDBVREP	296-22487-2-ND	3V, 150mA LDO Reg. ***NEW!***	SOT-23-5	4158.00/3,000		
TPS73131DBVR	296-20788-1-ND	3.1V, 150mA LDO Regulator	SOT-23-5	1.29	1.08	.86
TPS73131DBVR	296-20788-2-ND	3.1V, 150mA LDO Regulator	SOT-23-5	1677.00/3,000		
TPS73132DBVT	296-17422-1-ND	3.2V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73132DBVT	296-17422-2-ND	3.2V, 150mA LDO Regulator	SOT-23-5	180.00/250		
TPS73132MDBVREP	296-22488-1-ND	3.2V, 150mA LDO Reg. ***NEW!***	SOT-23-5	2.48	1.98	1.54
TPS73132MDBVREP	296-22488-2-ND	3.2V, 150mA LDO Reg. ***NEW!***	SOT-23-5	4158.00/3,000		
TPS73133DBVT	296-15805-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73133DBVT	296-15805-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	180.00/250		
TPS73133MDBVREP	296-22489-1-ND	3.3V, 150mA LDO Reg. ***NEW!***	SOT-23-5	2.48	1.98	1.54
TPS73133MDBVREP	296-22489-2-ND	3.3V, 150mA LDO Reg. ***NEW!***	SOT-23-5	4158.00/3,000		
TPS73150DBVT	296-15806-1-ND	5V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73150DBVT	296-15806-2-ND	5V, 150mA LDO Regulator	SOT-23-5	180.00/250		
TPS73150MDBVREP	296-22490-1-ND	5V, 150mA LDO Regulator ***NEW!***	SOT-23-5	2.48	1.98	1.54
TPS73150MDBVREP	296-22490-2-ND	5V, 150mA LDO Regulator ***NEW!***	SOT-23-5	4158.00/3,000		
TPS73201DBVT	296-15807-1-ND	Adj., 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73201DBVT	296-15807-2-ND	Adj., 250mA LDO Regulator	SOT-23-5	248.50/250		
TPS73201DCQR	296-16861-1-ND	Adj., 250mA LDO Regulator	SOT-223-6	1.78	1.42	1.07
TPS73201DCQR	296-16861-2-ND	Adj., 250mA LDO Regulator	SOT-223-6	2272.50/2,500		
TPS73201DRBT	296-18079-1-ND	Adj., 250mA LDO Regulator	8-SON	1.78	1.42	1.07
TPS73201DRBT	296-18079-2-ND	Adj., 250mA LDO Regulator	8-SON	248.50/250		
TPS73201MDBVREP	296-21277-1-ND	Adj., 250mA LDO Regulator	SOT-23-5	3.56	2.85	2.22
TPS73201MDBVREP	296-21277-2-ND	Adj., 250mA LDO Regulator	SOT-23-5	5973.00/3,000		
TPS73201QDBVRQ1	296-19676-1-ND	Adj., 250mA LDO Regulator	SOT-23-5	1.90	1.52	1.14
TPS73201QDBVRQ1	296-19676-2-ND	Adj., 250mA LDO Regulator	SOT-23-5	1976.00/2,000		
TPS73213DBVR	296-20714-1-ND	250mA LDO Regulator	SOT-23-5	1.55	1.24	.93
TPS73213DBVR	296-20714-2-ND	250mA LDO Regulator	SOT-23-5	2382.00/3,000		
TPS73215DBVT	296-15808-1-ND	1.5V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73215DBVT	296-15808-2-ND	1.5V, 250mA LDO Regulator	SOT-23-5	248.50/250		
TPS73215DCQR	296-16862-1-ND	1.5V, 250mA LDO Regulator	SOT-223-6	1.78	1.42	1.07
TPS73215DCQR	296-16862-2-ND	1.5V, 250mA LDO Regulator	SOT-223-6	2272.50/2,500		
TPS73215MDBVREP	296-22491-1-ND	1.5V, 250mA LDO Reg. ***NEW!***	SOT-23-5	3.56	2.85	2.22
TPS73215MDBVREP	296-22491-2-ND	1.5V, 250mA LDO Reg. ***NEW!***	SOT-23-5	5973.00/3,000		
TPS73216DBVT	296-17423-1-ND	1.6V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73216DBVT	296-17423-2-ND	1.6V, 250mA LDO Regulator	SOT-23-5	248.50/250		
TPS73216MDBVREP	296-22492-1-ND	1.6V, 250mA LDO Reg. ***NEW!***	SOT-23-5	3.56	2.85	2.22
TPS73216MDBVREP	296-22492-2-ND	1.6V, 250mA LDO Reg. ***NEW!***	SOT-23-5	5973.00/3,000		
TPS73218DBVT	296-15809-1-ND	1.8V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73218DBVT	296-15809-2-ND	1.8V, 250mA LDO Regulator	SOT-23-5	248.50/250		
TPS73218DCQR	296-16863-1-ND	1.8V, 250mA LDO Regulator	SOT-223-6	1.78	1.42	1.07
TPS73218DCQR	296-16863-2-ND	1.8V, 250mA LDO Regulator	SOT-223-6	2272.50/2,500		
TPS73218MDBVREP	296-22493-1-ND	1.8V, 250mA LDO Reg. ***NEW!***	SOT-23-5	3.56	2.85	2.22
TPS73218MDBVREP	296-22493-2-ND	1.8V, 250mA LDO Reg. ***NEW!***	SOT-23-5	5973.00/3,000		
TPS73225DBVT	296-15810-1-ND	2.5V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73225DBVT	296-15810-2-ND	2.5V, 250mA LDO Regulator	SOT-23-5	248.50/250		
TPS73225DCQR	296-16864-1-ND	2.5V, 250mA LDO Regulator	SOT-223-6	1.78	1.42	1.07

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS73225DCQR	296-16864-2-ND	2.5V, 250mA LDO Regulator	SOT-223-6	2272.50/2,500		
TPS73225MDBVREP	296-22494-1-ND	2.5V, 250mA LDO Reg. ***NEW!***	SOT-23-5	3.56	2.85	2.22
TPS73225MDBVREP	296-22494-2-ND	2.5V, 250mA LDO Reg. ***NEW!***	SOT-23-5	5973.00/3,000		
TPS73230DBVT	296-15811-1-ND	3V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73230DBVT	296-15811-2-ND	3V, 250mA LDO Regulator	SOT-23-5	248.50/250		
TPS73230DCQR	296-16865-1-ND	3V, 250mA LDO Regulator	SOT-223-6	1.78	1.42	1.07
TPS73230DCQR	296-16865-2-ND	3V, 250mA LDO Regulator	SOT-223-6	2272.50/2,500		
TPS73230MDBVREP	296-22495-1-ND	3V, 250mA LDO Regulator ***NEW!***	SOT-23-5	3.56	2.85	2.22
TPS73230MDBVREP	296-22495-2-ND	3V, 250mA LDO Regulator ***NEW!***	SOT-23-5	5973.00/3,000		
TPS73233DBVT	296-15812-1-ND	3.3V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73233DBVT	296-15812-2-ND	3.3V, 250mA LDO Regulator	SOT-23-5	248.50/250		
TPS73233DCQR	296-16866-1-ND	3.3V, 250mA LDO Regulator	SOT-223-6	1.78	1.42	1.07
TPS73233DCQR	296-16866-2-ND	3.3V, 250mA LDO Regulator	SOT-223-6	2272.50/2,500		
TPS73233MDBVREP	296-22496-1-ND	3.3V, 250mA LDO Reg. ***NEW!***	SOT-23-5	3.56	2.85	2.22
TPS73233MDBVREP	296-22496-2-ND	3.3V, 250mA LDO Reg. ***NEW!***	SOT-23-5	5973.00/3,000		
TPS73250DBVT	296-15813-1-ND	5V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73250DBVT	296-15813-2-ND	5V, 250mA LDO Regulator	SOT-23-5	248.50/250		
TPS73250DCQR	296-16867-1-ND	5V, 250mA LDO Regulator	SOT-223-6	1.78	1.42	1.07
TPS73250DCQR	296-16867-2-ND	5V, 250mA LDO Regulator	SOT-223-6	2272.50/2,500		
TPS73250MDBVREP	296-22497-1-ND	5V, 250mA LDO Regulator ***NEW!***	SOT-23-5	3.56	2.85	2.22
TPS73250MDBVREP	296-22497-2-ND	5V, 250mA LDO Regulator ***NEW!***	SOT-23-5	5973.00/3,000		
TPS73601DBVT	296-15814-1-ND	Adj., 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73601DBVT	296-15814-2-ND	Adj., 400mA LDO Regulator	SOT-23-5	315.00/250		
TPS73601DCQR	296-16909-1-ND	Adj., 400mA LDO Regulator	SOT-223-6	2.25	1.80	1.35
TPS73601DCQR	296-16909-2-ND	Adj., 400mA LDO Regulator	SOT-223-6	2880.00/2,500		
TPS73601DRBT	296-17620-1-ND	Adj., 400mA LDO Regulator	8-SON	2.38	1.90	1.43
TPS73601DRBT	296-17620-2-ND	Adj., 400mA LDO Regulator	8-SON	332.50/250		
TPS73601MDBVREP	296-20789-1-ND	Adj., 400mA LDO Regulator ***NEW!***	SOT-23-5	3.65	2.92	2.27
TPS73601MDBVREP	296-20789-2-ND	Adj., 400mA LDO Regulator ***NEW!***	SOT-23-5	6123.00/3,000		
TPS73615DBVT	296-15815-1-ND	1.5V, 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73615DBVT	296-15815-2-ND	1.5V, 400mA LDO Regulator	SOT-23-5	315.00/250		
TPS73615DCQR	296-16910-1-ND	1.5V, 400mA LDO Regulator	SOT-223-6	2.25	1.80	1.35
TPS73615DCQR	296-16910-2-ND	1.5V, 400mA LDO Regulator	SOT-223-6	2880.00/2,500		
TPS73615DRBT	296-18640-1-ND	1.5V, 400mA LDO Regulator	8-SON	2.38	1.90	1.43
TPS73615DRBT	296-18640-2-ND	1.5V, 400mA LDO Regulator	8-SON	332.50/250		
TPS73615MDBVREP	296-21278-1-ND	1.5V, 400mA LDO Regulator	SOT-23-5	4.66	3.73	2.90
TPS73615MDBVREP	296-21278-2-ND	1.5V, 400mA LDO Regulator	SOT-23-5	7824.00/3,000		
TPS73618DBVT	296-15816-1-ND	1.8V, 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73618DBVT	296-15816-2-ND	1.8V, 400mA LDO Regulator	SOT-23-5	315.00/250		
TPS73618DCQR	296-16911-1-ND	1.8V, 400mA LDO Regulator	SOT-223-6	2.25	1.80	1.35
TPS73618DCQR	296-16911-2-ND	1.8V, 400mA LDO Regulator	SOT-223-6	2880.00/2,500		
TPS73618MDBVREP	296-21279-1-ND	1.8V, 400mA LDO Regulator	SOT-23-5	4.66	3.73	2.90
TPS73618MDBVREP	296-21279-2-ND	1.8V, 400mA LDO Regulator	SOT-23-5	7824.00/3,000		
TPS73625DBVT	296-15817-1-ND	2.5V, 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73625DBVT	296-15817-2-ND	2.5V, 400mA LDO Regulator	SOT-23-5	315.00/250		
TPS73625DCQR	296-16912-1-ND	2.5V, 400mA LDO Regulator	SOT-223-6	2.25	1.80	1.35
TPS73625DCQR	296-16912-2-ND	2.5V, 400mA LDO Regulator	SOT-223-6	2880.00/2,500		
TPS73625MDBVREP	296-21280-1-ND	2.5V, 400mA LDO Regulator	SOT-23-5	4.66	3.73	2.90
TPS73625MDBVREP	296-21280-2-ND	2.5V, 400mA LDO Regulator	SOT-23-5	7824.00/3,000		
TPS73630DBVT	296-15818-1-ND	3V, 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73630DBVT	296-15818-2-ND	3V, 400mA LDO Regulator	SOT-23-5	315.00/250		
TPS73630DCQR	296-16913-1-ND	3V, 400mA LDO Regulator	SOT-223-6	2.25	1.80	1.35
TPS73630DCQR	296-16913-2-ND	3V, 400mA LDO Regulator	SOT-223-6	2880.00/2,500		
TPS73630MDBVREP	296-21281-1-ND	3V, 400mA LDO Regulator	SOT-23-5	4.66	3.73	2.90
TPS73630MDBVREP	296-21281-2-ND	3V, 400mA LDO Regulator	SOT-23-5	7824.00/3,000		
TPS73632DBVT	296-17424-1-ND	3.2V, 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73632DBVT	296-17424-2-ND	3.2V, 400mA LDO Regulator	SOT-23-5	315.00/250		
TPS73632MDBVREP	296-21282-1-ND	3.2V, 400mA LDO Regulator	SOT-23-5	4.66	3.73	2.90
TPS73632MDBVREP	296-21282-2-ND	3.2V, 400mA LDO Regulator	SOT-23-5	7824.00/3,000		
TPS73633DBVT	296-15819-1-ND	3.3V, 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73633DBVT	296-15819-2-ND	3.3V, 400mA LDO Regulator	SOT-23-5	315.00/250		
TPS73633DCQR	296-16914-1-ND	3.3V, 400mA LDO Regulator	SOT-223-6	2.25	1.80	1.35
TPS73633DCQR	296-16914-2-ND	3.3V, 400mA LDO Regulator	SOT-223-6	2880.00/2,500		
TPS73633DRBR	296-17884-1-ND	3.3V, 400mA LDO Regulator	8-SON	2.25	1.80	1.35
TPS73633DRBR	296-17884-2-ND	3.3V, 400mA LDO Regulator	8-SON	3456.00/3,000		
TPS73633EVM-066	296-19001-ND	Evaluation Module for TPS73633-066	—	10.20	—	—
TPS73633MDBVREP	296-21283-1-ND	3.3V, 400mA LDO Regulator	SOT-23-5	4.66	3.73	2.90
TPS73633MDBVREP	296-21283-2-ND	3.3V, 400mA LDO Regulator	SOT-23-5	7824.00/3,000		
TPS73643DBVR	296-17498-1-ND	4.3V, 400mA LDO Regulator	SOT-23-5	2.03	1.62	1.22
TPS73643DBVR	296-17498-2-ND	4.3V, 400mA LDO Regulator	SOT-23-5	3111.00/3,000		
TPS73701DCQ	296-19481-5-ND	Adj., 1A LDO Regulator	SOT-223-6	1.50	1.20	.90
TPS73701DRBR	296-22065-1-ND	Adj., 1A LDO Regulator ***NEW!***	8-SON	1.50	1.20	.90
TPS73701DRBR	296-22065-2-ND	Adj., 1A LDO Regulator ***NEW!***	8-SON	2304.00/3,000		
TPS73718DCQR	296-22889-1-ND	1.8V, 1A LDO Regulator ***NEW!***	SOT-223-6	1.50	1.20	.90
TPS73718DCQR	296-22889-2-ND	1.8V, 1A LDO Regulator ***NEW!***	SOT-223-6	1920.00/2,500		
TPS73725DCQR	296-22680-1-ND	2.5V, 1A LDO Regulator ***NEW!***	SOT-223-6	1.50	1.20	.90
TPS73725DCQR	296-22680-2-ND	2.5V, 1A LDO Regulator ***NEW!***	SOT-223-6	1920.00/2,500		
TPS73733DCQR	296-22681-1-ND	3.3V, 1A LDO Regulator ***NEW!***	SOT-223-6	1.50	1.20	.90
TPS73733DCQR	296-22681-2-ND	3.3V, 1A LDO Regulator ***NEW!***	SOT-223-6	1920.00/2,500		
TPS74201KTWT	296-21505-1-ND	Adj., 1.5A LDO with Prog. SS	7-DDPAK	5.00	4.00	—
TPS74201KTWT	296-21505-2-ND	Adj., 1.5A LDO with Prog. SS	7-DDPAK	168.75/50		
TPS74201RGWR	296-19890-1-ND	Adj., 1.5A LDO with Prog. SS	20-QFN	5.06	4.05	3.15
TPS74201RGWR	296-19890-2-ND	Adj., 1.5A LDO with Prog. SS	20-QFN	8505.00/3,000		
TPS74201RGWT	296-19891-1-ND	Adj., 1.5A LDO with Prog. SS	20-QFN	5.00	4.00	3.38
TPS74201RGWT	296-19891-2-ND	Adj., 1.5A LDO with Prog. SS	20-QFN	812.50/250		
TPS74301KTWT	296-21506-1-ND	Adj., 1.5A LDO Regulator	7-DDPAK	5.00	4.00	—
TPS74301KTWT	296-21506-2-ND	Adj., 1.5A LDO Regulator	7-DDPAK	168.75/50		
TPS74301RGWT	296-19892-1-ND	Adj., 1.5A LDO Regulator	20-QFN	5.00	4.00	3.38
TPS74301RGWT	296-19892-2-ND	Adj., 1.5A LDO Regulator	20-QFN	812.50/250		
TPS74401KTWT	296-21507-5-ND	Adj., 3A LDO Regulator	7-DDPAK	6.50	5.20	4.39
TPS74401RGWT	296-19893-1-ND	Adj., 3A LDO Regulator	20-QFN	6.50	5.20	4.39
TPS74401RGWT	296-19893-2-ND	Adj., 3A LDO Regulator	20-QFN	1056.25/250		
TPS74701DRCR	296-22987-1-ND	Adj., 500mA LDO Regulator ***NEW!***	10-SON	2.48	1.98	1.54
TPS74701DRCR	296-22987-2-ND	Adj., 500mA LDO Regulator ***NEW!***	10-SON	4158.00/3,000		
TPS74801DRCR	296-21563-1-ND	Adj., 1.5A LDO Regulator	10-SON	2.81	2.25	1.75
TPS74801DRCR	296-21563-2-ND	Adj., 1.5A LDO Regulator	10-SON	4725.00/3,000		
TPS74801RGWR	296-21977-1-ND	1.5A LDO Regulator	20-QFN	3.38	2.70	2.10
TPS74801RGWR	296-21977-2-ND	1.5A LDO Regulator	20-QFN	5670.00/3,000		
TPS74901KTWR	296-21991-1-ND	3A LDO Regulator	7-DDPAK	5.51	4.41	3.43
TPS74901KTWR	296-21991-2-ND	3A LDO Regulator	7-DDPAK	1592.50/500		
TPS74901RGWR	296-22498-1-ND	3A LDO Regulator ***NEW!***	20-QFN	5.51	4.41	3.43
TPS74901RGWR	296-22498-2-ND	3A LDO Regulator ***NEW!***	20-QFN	9261.00/3,000		
TPS75101QPWP	296-2673-5-ND	Adj., 1.5A LDO Regulator	20-HTSSOP	3.60	2.88	2.24
TPS75103YFFR	296-21284-1-ND	LDO Two-Bank LED Driver	9-DSBGA	1.63	1.30	.98
TPS75103YFFR	296-21284-2-ND	LDO Two-Bank LED Driver	9-DSBGA	2496.00/3,000		
TPS75105YFFR	296-20790-1-ND	LDO Two-Bank LED Driver	9-DSBGA	1.63	1.30	.98
TPS75105YFFR	296-20790-2-ND	LDO Two-Bank LED Driver	9-DSBGA	2496.00/3,000		
TPS75115QPWP	296-2674-5-ND	1.5V, 1.5A LDO Regulator	20-HTSSOP	3.60	2.88	2.24
TPS75118QPWP	296-2675-5-ND	1.8V, 1.5A LDO Regulator	20-HTSSOP	3.60	2.88	2.24
TPS75125MPWPREP	296-22501-1-ND	2.5V, 1.5A LDO Regulator ***NEW!***	20-HTSSOP	5.44	4.36	3.68
TPS75125MPWPREP	296-22501-2-ND	2.5V, 1.5A LDO Regulator ***NEW!***	20-HTSSOP	6800.00/2,000		
TPS75125QPWP	296-2676-5-ND	2.5V, 1.5A LDO Regulator	20-HTSSOP	3.60	2.88	2.24
TPS75133QPWP	296-2677-5-ND	3.3V, 1.5A LDO Regulator	20-HTSSOP	3.60	2.88	2.24
TPS75201MPWPREP	296-22502-1-ND	Adj., 2A LDO Regulator ***NEW!***	20-HTSSOP	6.12	4.90	4.14
TPS75201MPWPREP	296-22502-2-ND	Adj., 2A LDO Regulator ***NEW!***	20-HTSSOP	7650.00/2,000		
TPS75201QPWP	296-2678-5-ND	Adj., 2A LDO Regulator	20-HTSSOP	4.05	3.24	2.52
TPS75201QPWPREP	296-22503-1-ND	Adj., 2A LDO Regulator ***NEW!***	20-HTSSOP	5.51	4.41	3.43
TPS75201QPWPREP	296-22503-2-ND	Adj., 2A LDO Regulator ***NEW!***	20-HTSSOP	6248.00/2,000		
TPS75215QPWP	296-2679-5-ND	1.5V, 2A LDO Regulator	20-HTSSOP	4.05	3.24	2.52
TPS75215QPWPREP	296-18154-1-ND	1.5V, 2A LDO Regulator	20-HTSSOP	5.51	4.41	3.43
TPS75215QPWPREP	296-18154-2-ND	1.5V, 2A LDO Regulator	20-HTSSOP	6248.00/2,000		
TPS75218QPWP	296-2680-5-ND	1.8V, 2A LDO Regulator	20-HTSSOP	4.05	3.24	2.52
TPS75218QPWPREP	296-20791-1-ND	1.8V, 2A LDO Regulator ***NEW!***	20-HTSSOP	5.51	4.41	3.43
TPS75218QPWPREP	296-20791-2-ND	1.8V, 2A LDO Regulator ***NEW!***	20-HTSSOP	6248.00/2,000		
TPS75218QPWPRQ1	296-15279-1-ND	1.8V, 2A LDO Regulator	20-HTSSOP	4.73	3.78	2.94
TPS75218QPWPRQ1	296-15279-2-ND	1.8V, 2A LDO Regulator	20-HTSSOP	5356.00/2,000		
TPS75225QPWP	296-2681-5-ND	2.5V, 2A LDO Regulator	20-HTSSOP	4.05	3.24	2.52
TPS75225QPWPREP	296-22504-1-ND	2.5V, 2A LDO Regulator ***NEW!***	20-HTSSOP	5.51	4.41	3.43
TPS75225QPWPREP	296-22504-2-ND	2.5V, 2A LDO Regulator ***NEW!***	20-HTSSOP	6248.00/2,000		
TPS75233QPWP	296-2682-5-ND	3.3V, 2A LDO Regulator	20-HTSSOP	4.05	3.24	2.52
TPS75233QPWPREP	296-18155-1-ND	3.3V, 2A LDO Regulator ***NEW!***	20-HTSSOP	5.51	4.41	3.43
TPS75233QPWPREP	296-18155-2-ND	3.3V, 2A LDO Regulator ***NEW!***	20-HTSSOP	6248.00/2,000		
TPS75233QPWPRQ1	296-15280-1-ND	3.3V, 2A LDO Regulator	20-HTSSOP	4.73	3.78	2.94
TPS75233QPWPRQ1	296-15280-2-ND	3.3V, 2A LDO Regulator	20-HTSSOP	5356.00/2,000		
TPS75301QPWP	296-2683-5-ND	Adj., 1.5A LDO Regulator	20-HTSSOP	3.83	3.06	2.38
TPS75301QPWPREP	296-22505-1-ND	Adj., 1.5A LDO Regulator ***NEW!***	20-HTSSOP	5.20	4.16	3.24
TPS75301QPWPREP	296-22505-2-ND	Adj., 1.5A LDO Regulator ***NEW!***	20-HTSSOP	5890.00/2,000		
TPS75301QPWPRQ1	296-15281-1-ND	Adj., 1.5A LDO Regulator	20-HTSSOP	4.50	3.60	2.80
TPS75301QPWPRQ1	296-15281-2-ND	Adj., 1.5A LDO Regulator	20-HTSSOP	5100.00/2,000		
TPS75315QPWP	296-2684-5-ND	1.5V, 1.5A LDO Regulator	20-HTSSOP	3.83	3.06	2.38
TPS75315QPWPREP	296-22506-1-ND	1.5V, 1.5A LDO Regulator ***NEW!***	20-HTSSOP	5.20	4.16	3.24
TPS75315QPWPREP	296-22506-2-ND	1.5V, 1.5A LDO Regulator ***NEW!***	20-HTSSOP	5890.00/2,000		
TPS75318QPWP	296-2685-5-ND	1.8V, 1.5A LDO Regulator	20-HTSSOP	3.83	3.06	2.38
TPS75318QPWPREP	296-22507-1-ND	1.8V, 1.5A LDO Regulator ***NEW!***	20-HTSSOP	5.20	4.16	3.24
TPS75318QPWPREP	296-22507-2-ND	1.8V, 1.5A LDO Regulator ***NEW!***	20-HTSSOP	5890.00/2,000		
TPS75318QPWPRQ1	296-15282-1-ND	1.8V, 1.5A LDO Regulator	20-HTSSOP	4.50	3.60	2.80
TPS75318QPWPRQ1	296-15282-2-ND	1.8V, 1.5A LDO Regulator	20-HTSSOP	5100.00/2,000		
TPS75325QPWP	296-2686-5-ND	2.5V, 1.5A LDO Regulator	20-HTSSOP	3.83	3.06	2.38
TPS75325QPWPREP	296-22508-1-ND	2.5V, 1.5A LDO Regulator ***NEW!***	20-HTSSOP	5.20	4.16	3.24
TPS75325QPWPREP	296-22508-2-ND	2.5V, 1.5A LDO Regulator ***NEW!***	20-HTSSOP	5890.00/2,000		
TPS75333QPWP	296-2687-5-ND	3.3V, 1.5A LDO Regulator	20-HTSSOP	3.83	3.06	2.38
TPS75333QPWPREP	296-22509-1-ND	3.3V, 1.5A LDO Regulator ***NEW!***	20-HTSSOP	5.20	4.16	3.24
TPS75333QPWPREP	296-22509-2-ND	3.3V, 1.5A LDO Regulator ***NEW!***	20-HTSSOP	5890.00/2,000		
TPS75333QPWPRQ1	296-15283-1-ND	3.3V, 1.5A LDO Regulator	20-HTSSOP	4.50	3.60	2.80
TPS75333QPWPRQ1	296-15283-2-ND	3.3V, 1.5A LDO Regulator	20-HTSSOP	5100.00/2,000		
TPS75401QPWP	296-2688-5-ND	Adjustable, 2A LDO Regulator	20-HTSSOP	3.94	3.15	2.45
TPS75415QPWP	296-2689-5-ND	1.5V, 2A LDO Regulator	20-HTSSOP	3.94	3.15	2.45
TPS75418QPWP	296-2690-5-ND	1.8V, 2A LDO Regulator	20-HTSSOP	3.94	3.15	2.45
TPS75425QPWP	296-2691-5-ND	2.5V, 2A LDO Regulator	20-HTSSOP	3.94	3.15	2.45
TPS75433QPWP	296-2692-5-ND	3.3V, 2A LDO Regulator	20-HTSSOP	3.94	3.15	2.45
TPS75501KC	296-10988-5-ND	Adj., 5A LDO Regulator	TO-220	6.00	4.80	4.05
TPS75501KTTT	296-15992-1-ND	Adj., 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75501KTTT	296-15992-2-ND	Adj., 5A LDO Regulator	TO-263-5	202.50/50		
TPS75515KC	296-10990-5-ND	1.5V, 5A LDO Regulator	TO-220	6.00	4.80	4.05
TPS75515KTTT	296-15911-1-ND	1.5V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75515KTTT	296-15911-2-ND	1.5V, 5A LDO Regulator	TO-263-5	202.50/50		
TPS75518KC	296-10992-5-ND	1.8V, 5A LDO Regulator	TO-220	6.00	4.80	4.05
TPS75518KTTT	296-15912-1-ND	1.8V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75518KTTT	296-15912-2-ND	1.8V, 5A LDO Regulator	TO-263-5	202.50/50		
TPS75525KC	296-10994-5-ND	2.5V, 5A LDO Regulator	TO-220	6.00	4.80	4.05
TPS75525EVM	296-13591-ND	Evaluation Module for TPS75525	—	50.00	—	—
TPS75525KTTT	296-15913-1-ND	2.5V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75525KTTT	296-15913-2-ND	2.5V, 5A LDO Regulator	TO-263-5	202.50/50		
TPS75533KC	296-10996-5-ND	3.3V, 5A LDO Regulator	TO-220	6.00	4.80	4.05
TPS75533KTTT	296-15914-1-ND	3.3V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75533KTTT	296-15914-2-ND	3.3V, 5A LDO Regulator	TO-263-5	202.50/50		
TPS75601KC	296-11947-5-ND	Adj., 5A LDO Regulator	TO-220-5	6.00	4.80	4.05
TPS75601KTTT	296-15915-1-ND	Adj., 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75601KTTT	296-15915-2-ND	Adj., 5A LDO Regulator	TO-263-5	202.50/50		
TPS75615KC	296-11949-5-ND	1.5V, 5A LDO Regulator	TO-220-5	6.00	4.80	4.05
TPS75615KTTT	296-15916-1-ND	1.5V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75615KTTT	296-15916-2-ND	1.5V, 5A LDO Regulator	TO-263-5	202.50/50		
TPS75618KC	296-11951-5-ND	1.8V, 5A LDO Regulator	TO-220-5	6.00	4.80	4.05
TPS75618KTTT	296-15917-1-ND	1.8V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75618KTTT	296-15917-2-ND	1.8V, 5A LDO Regulator	TO-263-5	202.50/50		
TPS75625KC	296-11953-5-ND	2.5V, 5A LDO Regulator	TO-220-5	6.00	4.80	4.05
TPS75625KTTT	296-15918-1-ND	2.5V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75625KTTT	296-15918-2-ND	2.5V, 5A LDO Regulator	TO-263-5	202.50/50		
TPS75633KC	296-11955-5-ND	3.3V, 5A LDO Regulator	TO-220-5	6.00	4.80	4.05
TPS75633KTTT	296-15919-1-ND	3.3V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75633KTTT	296-15919-2-ND	3.3V, 5A LDO Regulator	TO-263-5	202.50/50		
TPS75701KC	296-10998-5-ND	Adj., 3A LDO Regulator	TO-220	5.40	4.32	3.65
TPS75701KTTT	296-15920-1-ND	Adj., 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75701KTTT	296-15920-2-ND	Adj., 3A LDO Regulator	TO-263-5	182.25/50		
TPS75715KC	296-11000-5-ND	1.5V, 3A LDO Regulator	TO-220	5.40	4.32	3.65
TPS75715KTTT	296-15921-1-ND	1.5V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75715KTTT	296-15921-2-ND	1.5V, 3A LDO Regulator	TO-263-5	182.25/50		
TPS75718KC	296-11002-5-ND	1.8V, 3A LDO Regulator	TO-220	5.40	4.32	3.65
TPS75718KTTT	296-15922-1-ND	1.8V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75718KTTT	296-15922-2-ND	1.8V, 3A LDO Regulator	TO-263-5	182.25/50		
TPS75725KC	296-11004-5-ND	2.5V, 3A LDO Regulator	TO-220	5.40	4.32	3.65
TPS75725KTTT	296-15923-1-ND	2.5V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75725KTTT	296-15923-2-ND	2.5V, 3A LDO Regulator	TO-263-5	182.25/50		
TPS75733KC	296-11006-5-ND	3.3V, 3A LDO Regulator	TO-220	5.40	4.32	3.65
TPS75733KTTT	296-15924-1-ND	3.3V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75733KTTT	296-15924-2-ND	3.3V, 3A LDO Regulator	TO-263-5	182.25/50		
TPS75801KC	296-11957-5-ND	Adj., 3A LDO Regulator	TO-220-5	5.40	4.32	3.65
TPS75801KTTT	296-15925-1-ND	Adj., 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75801KTTT	296-15925-2-ND	Adj., 3A LDO Regulator	TO-263-5	182.25/50		
TPS75815KC	296-11959-5-ND	1.5V, 3A LDO Regulator	TO-220-5	5.40	4.32	3.65

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS75815KTTT	296-15926-1-ND	1.5V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75815KTTT	296-15926-2-ND	1.5V, 3A LDO Regulator	TO-263-5	182.25/50		
TPS75818KC	296-11961-5-ND	1.8V, 3A LDO Regulator	TO-220-5	5.40	4.32	3.65
TPS75818KTTT	296-15927-1-ND	1.8V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75818KTTT	296-15927-2-ND	1.8V, 3A LDO Regulator	TO-263-5	182.25/50		
TPS75825KC	296-11963-5-ND	2.5V, 3A LDO Regulator	TO-220-5	5.40	4.32	3.65
TPS75825KTTT	296-15928-1-ND	2.5V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75825KTTT	296-15928-2-ND	2.5V, 3A LDO Regulator	TO-263-5	182.25/50		
TPS75833KC	296-11965-5-ND	3.3V, 3A LDO Regulator	TO-220-5	5.40	4.32	3.65
TPS75833KTTT	296-15929-1-ND	3.3V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75833KTTT	296-15929-2-ND	3.3V, 3A LDO Regulator	TO-263-5	182.25/50		
TPS75901KC	296-12369-5-ND	Adj., 7.5A LDO Regulator	TO-220-5	6.40	5.12	4.32
TPS75901KTTT	296-15930-1-ND	Adj., 7.5A LDO Regulator	TO-263-5	6.40	5.12	—
TPS75901KTTT	296-15930-2-ND	Adj., 7.5A LDO Regulator	TO-263-5	216.00/50		
TPS75915KC	296-12371-5-ND	1.5V, Fixed Out 7.5A LDO Regulator	TO-220-5	6.40	5.12	4.32
TPS75915KTTT	296-15931-1-ND	1.5V, Fixed Out 7.5A LDO Regulator	TO-263-5	6.40	5.12	—
TPS75915KTTT	296-15931-2-ND	1.5V, Fixed Out 7.5A LDO Regulator	TO-263-5	216.00/50		
TPS75918KC	296-12373-5-ND	1.8V, Fixed Out 7.5A LDO Regulator	TO-220-5	6.40	5.12	4.32
TPS75918KTTT	296-15932-1-ND	1.8V, Fixed Out 7.5A LDO Regulator	TO-263-5	6.40	5.12	—
TPS75918KTTT	296-15932-2-ND	1.8V, Fixed Out 7.5A LDO Regulator	TO-263-5	216.00/50		
TPS75925KC	296-12375-5-ND	2.5V, Fixed Out 7.5A LDO Regulator	TO-220-5	6.40	5.12	4.32
TPS75925KTTT	296-15933-1-ND	2.5V, Fixed Out 7.5A LDO Regulator	TO-263-5	6.40	5.12	—
TPS75925KTTT	296-15933-2-ND	2.5V, Fixed Out 7.5A LDO Regulator	TO-263-5	216.00/50		
TPS75933KC	296-12377-5-ND	3.3V, Fixed Out 7.5A LDO Regulator	TO-220-5	6.40	5.12	4.32
TPS75933KTTT	296-15934-1-ND	3.3V, Fixed Out 7.5A LDO Regulator	TO-263-5	6.40	5.12	—
TPS75933KTTT	296-15934-2-ND	3.3V, Fixed Out 7.5A LDO Regulator	TO-263-5	216.00/50		
TPS76XXXEVM-125	296-11042-ND	Eval. Module for TPS76XXX-125	—	50.00	—	—
TPS76030DBVR	296-1363-1-ND	3V LP 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS76030DBVR	296-1363-2-ND	3V LP 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS76032DBVR	296-8072-1-ND	3.2V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS76032DBVR	296-8072-2-ND	3.2V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS76033DBVR	296-8073-1-ND	3.3V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS76033DBVR	296-8073-2-ND	3.3V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS76038DBVR	296-8074-1-ND	3.8V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS76038DBVR	296-8074-2-ND	3.8V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS76050DBVR	296-8075-1-ND	5V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS76050DBVR	296-8075-2-ND	5V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS76130DBVR	296-11008-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS76130DBVR	296-11008-2-ND	3V, 100mA LDO Regulator	SOT-23-5	1443.00/3,000		
TPS76130DBVT	296-2693-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.23	1.03	.82
TPS76130DBVT	296-2693-2-ND	3V, 100mA LDO Regulator	SOT-23-5	153.75/250		
TPS76132DBVR	296-11009-1-ND	3.2V, 100mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS76132DBVR	296-11009-2-ND	3.2V, 100mA LDO Regulator	SOT-23-5	1443.00/3,000		
TPS76132DBVT	296-2694-1-ND	3.2V, 100mA LDO Regulator	SOT-23-5	1.23	1.03	.82
TPS76132DBVT	296-2694-2-ND	3.2V, 100mA LDO Regulator	SOT-23-5	153.75/250		
TPS76133DBVR	296-11010-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS76133DBVR	296-11010-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1443.00/3,000		
TPS76133DBVT	296-2695-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.23	1.03	.82
TPS76133DBVT	296-2695-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	153.75/250		
TPS76138DBVR	296-11011-1-ND	3.8V, 100mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS76138DBVR	296-11011-2-ND	3.8V, 100mA LDO Regulator	SOT-23-5	1443.00/3,000		
TPS76138DBVT	296-2696-1-ND	3.8V, 100mA LDO Regulator	SOT-23-5	1.23	1.03	.82
TPS76138DBVT	296-2696-2-ND	3.8V, 100mA LDO Regulator	SOT-23-5	153.75/250		
TPS76150DBVR	296-11012-1-ND	5V, 100mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS76150DBVR	296-11012-2-ND	5V, 100mA LDO Regulator	SOT-23-5	1443.00/3,000		
TPS76150DBVT	296-2697-1-ND	5V, 100mA LDO Regulator	SOT-23-5	1.23	1.03	.82
TPS76150DBVT	296-2697-2-ND	5V, 100mA LDO Regulator	SOT-23-5	153.75/250		
TPS76201DBVR	296-11013-1-ND	Adjustable, 100mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS76201DBVR	296-11013-2-ND	Adjustable, 100mA LDO Regulator	SOT-23-5	1443.00/3,000		
TPS76301DBVR	296-11014-1-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76301DBVR	296-11014-2-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76301DBVT	296-2698-1-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76301DBVT	296-2698-2-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76301QDBVRQ1	296-18038-1-ND	Adj., 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76301QDBVRQ1	296-18038-2-ND	Adj., 150mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76316DBVR	296-11015-1-ND	1.6V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76316DBVR	296-11015-2-ND	1.6V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76316DBVT	296-2699-1-ND	1.6V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76316DBVT	296-2699-2-ND	1.6V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76318DBVT	296-2700-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76318DBVT	296-2700-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76325DBVR	296-11017-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76325DBVR	296-11017-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76325DBVT	296-2701-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76325DBVT	296-2701-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76327DBVR	296-11018-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76327DBVR	296-11018-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76327DBVT	296-2702-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76327DBVT	296-2702-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76328DBVR	296-11019-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76328DBVR	296-11019-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76328DBVT	296-2703-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76328DBVT	296-2703-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76330DBVR	296-11020-1-ND	3V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76330DBVR	296-11020-2-ND	3V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76330DBVT	296-2704-1-ND	3V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76330DBVT	296-2704-2-ND	3V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76333DBVR	296-11021-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76333DBVR	296-11021-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76333DBVT	296-2705-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76333DBVT	296-2705-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76333QDBVRQ1	296-17749-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76333QDBVRQ1	296-17749-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76338DBVT	296-2706-1-ND	3.8V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76338DBVT	296-2706-2-ND	3.8V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76350DBVR	296-11023-1-ND	5V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76350DBVR	296-11023-2-ND	5V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76350DBVT	296-2707-1-ND	5V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76350DBVT	296-2707-2-ND	5V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76425DBVR	296-11024-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76425DBVR	296-11024-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76425DBVT	296-2708-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76425DBVT	296-2708-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	101.25/250		
TPS76427DBVR	296-11025-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76427DBVR	296-11025-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76427DBVT	296-2709-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76427DBVT	296-2709-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	101.25/250		
TPS76428DBVR	296-11026-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76428DBVR	296-11026-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76428DBVT	296-2710-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76428DBVT	296-2710-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	101.25/250		
TPS76430DBVT	296-2711-1-ND	3V, 150mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76430DBVT	296-2711-2-ND	3V, 150mA LDO Regulator	SOT-23-5	101.25/250		
TPS76433DBVR	296-11028-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76433DBVR	296-11028-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76433DBVT	296-2712-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76433DBVT	296-2712-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	101.25/250		
TPS76501D	296-2713-5-ND	Adjustable, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76515D	296-2714-5-ND	1.5V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76518D	296-2715-5-ND	1.8V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76525D	296-2716-5-ND	2.5V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76527D	296-2717-5-ND	2.7V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76528D	296-2718-5-ND	2.8V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76530D	296-2719-5-ND	3V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76533D	296-2720-5-ND	3.3V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76550D	296-2721-5-ND	5V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76601D	296-2722-5-ND	Adjustable, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76615D	296-2723-5-ND	1.5V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76615DR	296-2723-1-ND	1.5V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76615DR	296-2723-2-ND	1.5V, 250mA LDO Regulator	8-SOIC	1300.00/2,500		
TPS76618D	296-2724-5-ND	1.8V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76625D	296-2725-5-ND	2.5V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76627D	296-2726-5-ND	2.7V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76628D	296-2727-5-ND	2.8V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76630D	296-2728-5-ND	3V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76633D	296-2729-5-ND	3.3V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76650D	296-2730-5-ND	5V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76701QD	296-2731-5-ND	Adj., 1A LDO Voltage Regulator	8-SOIC	2.48	1.98	1.54
TPS76701QPWP	296-8076-5-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76701QPWPR	296-8076-1-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76701QPWPR	296-8076-2-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	2806.00/2,000		
TPS76701QPWPREP	296-18156-1-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	3.38	2.70	2.10
TPS76701QPWPREP	296-18156-2-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	3826.00/2,000		
TPS76701QPWPRQ1	296-16967-1-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	2.93	2.34	1.82
TPS76701QPWPRQ1	296-16967-2-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	3316.00/2,000		
TPS76715QD	296-2732-5-ND	1.5V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76715QPWP	296-8077-5-ND	1.5V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76715QPWPREP	296-22510-1-ND	1.5V, 1A LDO Regulator ***NEW!***	20-HTSSOP	3.38	2.70	2.10
TPS76715QPWPREP	296-22510-2-ND	1.5V, 1A LDO Regulator ***NEW!***	20-HTSSOP	3826.00/2,000		
TPS76718QD	296-2733-5-ND	1.8V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76718QPWP	296-8078-5-ND	1.8V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76718QPWPREP	296-22511-1-ND	1.8V, 1A LDO Regulator ***NEW!***	20-HTSSOP	3.38	2.70	2.10
TPS76718QPWPREP	296-22511-2-ND	1.8V, 1A LDO Regulator ***NEW!***	20-HTSSOP	3826.00/2,000		
TPS76718QPWPRQ1	296-15284-1-ND	1.8V, 1A LDO Regulator	20-HTSSOP	2.93	2.34	1.82
TPS76718QPWPRQ1	296-15284-2-ND	1.8V, 1A LDO Regulator	20-HTSSOP	3316.00/2,000		
TPS76725QD	296-2734-5-ND	2.5V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76725QPWP	296-8079-5-ND	2.5V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76725QPWPREP	296-18157-1-ND	2.5V, 1A LDO Regulator	20-HTSSOP	3.38	2.70	2.10
TPS76725QPWPREP	296-18157-2-ND	2.5V, 1A LDO Regulator	20-HTSSOP	3826.00/2,000		
TPS76727QD	296-2735-5-ND	2.7V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76727QPWP	296-8080-5-ND	2.7V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76728QD	296-2736-5-ND	2.8V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76728QPWP	296-8081-5-ND	2.8V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76730QD	296-2737-5-ND	3V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76730QPWP	296-8082-5-ND	3V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76733QD	296-2738-5-ND	3.3V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76733QPWP	296-8083-5-ND	3.3V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76733QPWPREP	296-18158-1-ND	3.3V, 1A LDO Regulator	20-HTSSOP	3.38	2.70	2.10
TPS76733QPWPREP	296-18158-2-ND	3.3V, 1A LDO Regulator	20-HTSSOP	3826.00/2,000		
TPS76733QPWPRQ1	296-15285-1-ND	3.3V, 1A LDO Regulator	20-HTSSOP	2.93	2.34	1.82
TPS76733QPWPRQ1	296-15285-2-ND	3.3V, 1A LDO Regulator	20-HTSSOP	3316.00/2,000		
TPS76750QD	296-2739-5-ND	5V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76750QPWP	296-8084-5-ND	5V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76750QPWPREP	296-22512-1-ND	5V, 1A LDO Regulator ***NEW!***	20-HTSSOP	3.38	2.70	2.10
TPS76750QPWPREP	296-22512-2-ND	5V, 1A LDO Regulator ***NEW!***	20-HTSSOP	3826.00/2,000		
TPS76750QPWPRQ1	296-15286-1-ND	5V, 1A LDO Regulator	20-HTSSOP	2.93	2.34	1.82
TPS76750QPWPRQ1	296-15286-2-ND	5V, 1A LDO Regulator	20-HTSSOP	3316.00/2,000		
TPS76801QD	296-2743-5-ND	Adj., 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76801QPWP	296-8085-5-ND	Adj., 1A LDO Regulator.	20-HTSSOP	2.25	1.80	1.35
TPS76801QPWPREP	296-18159-1-ND	Adj., 1A LDO Regulator	20-HTSSOP	2.75	2.20	1.71
TPS76801QPWPREP	296-18159-2-ND	Adj., 1A LDO Regulator	20-HTSSOP	3112.00/2,000		
TPS76801QPWPRQ1	296-15287-1-ND	Adj., 1A LDO Regulator	20-HTSSOP	2.36	1.89	1.47
TPS76801QPWPRQ1	296-15287-2-ND	Adj., 1A LDO Regulator	20-HTSSOP	2678.00/2,000		
TPS76815QD	296-2744-5-ND	1.5V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76815QPWP	296-8086-5-ND	1.5V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76815QPWPREP	296-22516-1-ND	1.5V, 1A LDO Regulator ***NEW!***	20-HTSSOP	2.75	2.20	1.71
TPS76815QPWPREP	296-22516-2-ND	1.5V, 1A LDO Regulator ***NEW!***	20-HTSSOP	3112.00/2,000		
TPS76818QD	296-2745-5-ND	1.8V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76818QPWP	296-8087-5-ND	1.8V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76818QPWPREP	296-18160-1-ND	1.8V, 1A LDO Regulator	20-HTSSOP	2.75	2.20	1.71
TPS76818QPWPREP	296-18160-2-ND	1.8V, 1A LDO Regulator	20-HTSSOP	3112.00/2,000		
TPS76818QPWPRQ1	296-15288-1-ND	1.8V, 1A LDO Regulator	20-HTSSOP	2.36	1.89	1.47
TPS76818QPWPRQ1	296-15288-2-ND	1.8V, 1A LDO Regulator	20-HTSSOP	2678.00/2,000		
TPS76825QD	296-2746-5-ND	2.5V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76825QPWP	296-8088-5-ND	2.5V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76825QPWPREP	296-18161-1-ND	2.5V, 1A LDO Regulator	20-HTSSOP	2.75	2.20	1.71
TPS76825QPWPREP	296-18161-2-ND	2.5V, 1A LDO Regulator	20-HTSSOP	3112.00/2,000		
TPS76827QD	296-2747-5-ND	2.7V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76827QPWP	296-8089-5-ND	2.7V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76828QD	296-2748-5-ND	2.8V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76828QPWP	296-8090-5-ND	2.8V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76830QD	296-2749-5-ND	3V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76830QPWP	296-8091-5-ND	3V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76833QD	296-2750-5-ND	3.3V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76833QPWP	296-8092-5-ND	3.3V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76833QPWPREP	296-21901-1-ND	3.3V, 1A LDO Regulator	20-HTSSOP	2.75	2.20	1.71
TPS76833QPWPREP	296-21901-2-ND	3.3V, 1A LDO Regulator	20-HTSSOP	3112.00/2,000		
TPS76833QPWPRQ1	296-15289-1-ND	3.3V, 1A LDO Regulator	20-HTSSOP	2.36	1.89	1.47
TPS76833QPWPRQ1	296-15289-2-ND	3.3V, 1A LDO Regulator	20-HTSSOP	2678.00/2,000		
TPS76850QD	296-2751-5-ND	5V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS76850QPWP	296-8093-5-ND	5V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76850QPWPREP	296-18162-1-ND	5V, 1A LDO Regulator	20-HTSSOP	2.75	2.20	1.71
TPS76850QPWPREP	296-18162-2-ND	5V, 1A LDO Regulator	20-HTSSOP	3112.00/2,000		
TPS76850QPWPRQ1	296-15290-1-ND	5V, 1A LDO Regulator	20-HTSSOP	2.36	1.89	1.47
TPS76850QPWPRQ1	296-15290-2-ND	5V, 1A LDO Regulator	20-HTSSOP	2678.00/2,000		
TPS76901DBVR	296-11029-1-ND	Adj., 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76901DBVR	296-11029-2-ND	Adj., 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76901DBVT	296-2752-1-ND	Adj., 100mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76901DBVT	296-2752-2-ND	Adj., 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76901EVM-127	296-11030-ND	Evaluation Module for TPS76901	—	50.00	—	—
TPS76901QDBVRQ1	296-15291-1-ND	Adj., 100mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS76901QDBVRQ1	296-15291-2-ND	Adj., 100mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS76912DBVR	296-11031-1-ND	1.2V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76912DBVR	296-11031-2-ND	1.2V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76912DBVT	296-2753-1-ND	1.2V, 100mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76912DBVT	296-2753-2-ND	1.2V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76915DBVR	296-11032-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76915DBVR	296-11032-2-ND	1.5V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76915DBVT	296-2754-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76915DBVT	296-2754-2-ND	1.5V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76915QDBVRQ1	296-19677-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS76915QDBVRQ1	296-19677-2-ND	1.5V, 100mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS76918DBVR	296-11033-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76918DBVR	296-11033-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76918DBVT	296-2755-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76918DBVT	296-2755-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76918EVM-127	296-11034-ND	Evaluation Module for TPS76918	—	50.00	—	—
TPS76918QDBVRQ1	296-15292-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS76918QDBVRQ1	296-15292-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS76925DBVR	296-11035-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76925DBVR	296-11035-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76925DBVT	296-2756-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76925DBVT	296-2756-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76927DBVR	296-11036-1-ND	2.7V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76927DBVR	296-11036-2-ND	2.7V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76927DBVT	296-2757-1-ND	2.7V, 100mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76927DBVT	296-2757-2-ND	2.7V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76928DBVR	296-11037-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76928DBVR	296-11037-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76928DBVT	296-2758-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76928DBVT	296-2758-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76930DBVR	296-11038-2-ND	3V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76930DBVT	296-2759-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76930DBVT	296-2759-2-ND	3V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76930QDBVRQ1	296-15293-1-ND	3V, 100mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS76930QDBVRQ1	296-15293-2-ND	3V, 100mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS76933DBVR	296-11039-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	741.00/3,000		
TPS76933DBVT	296-2760-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76933DBVT	296-2760-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	87.25/250		
TPS76933EVM-127	296-11040-ND	Evaluation Module for TPS76933	—	50.00	—	—
TPS76933QDBVRQ1	296-15294-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	.92	.69	.52
TPS76933QDBVRQ1	296-15294-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	897.00/3,000		
TPS76950DBVR	296-11041-1-ND	5V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76950DBVR	296-11041-2-ND	5V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76950DBVT	296-2761-1-ND	5V, 100mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76950DBVT	296-2761-2-ND	5V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76950QDBVRQ1	296-15295-1-ND	5V, 100mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS76950QDBVRQ1	296-15295-2-ND	5V, 100mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77001DBVR	296-11043-1-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77001DBVR	296-11043-2-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77001DBVT	296-2762-1-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77001DBVT	296-2762-2-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	120.00/250		
TPS77012DBVR	296-11044-1-ND	1.2V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77012DBVR	296-11044-2-ND	1.2V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77012DBVT	296-2763-1-ND	1.2V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS77012DBVT	296-2763-2-ND	1.2V, 50mA LDO Regulator	SOT-23-5	120.00/250		
TPS77015DBVR	296-11045-1-ND	1.5V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77015DBVR	296-11045-2-ND	1.5V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77015DBVT	296-2764-1-ND	1.5V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS77015DBVT	296-2764-2-ND	1.5V, 50mA LDO Regulator	SOT-23-5	120.00/250		
TPS77018DBVR	296-11046-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77018DBVR	296-11046-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77018DBVT	296-2765-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS77018DBVT	296-2765-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5	120.00/250		
TPS77025DBVR	296-11047-1-ND	2.5V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77025DBVR	296-11047-2-ND	2.5V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77025DBVT	296-2766-1-ND	2.5V, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77025DBVT	296-2766-2-ND	2.5V, 50mA LDO Regulator	SOT-23-5	120.00/250		
TPS77027DBVR	296-11048-1-ND	2.7V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77027DBVR	296-11048-2-ND	2.7V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77027DBVT	296-2767-1-ND	2.7V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS77027DBVT	296-2767-2-ND	2.7V, 50mA LDO Regulator	SOT-23-5	120.00/250		
TPS77028DBVR	296-11049-1-ND	2.8V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77028DBVR	296-11049-2-ND	2.8V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77028DBVT	296-2768-1-ND	2.8V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS77028DBVT	296-2768-2-ND	2.8V, 50mA LDO Regulator	SOT-23-5	120.00/250		
TPS77030DBVR	296-11050-1-ND	3V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77030DBVR	296-11050-2-ND	3V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77030DBVT	296-2769-1-ND	3V, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77030DBVT	296-2769-2-ND	3V, 50mA LDO Regulator	SOT-23-5	120.00/250		
TPS77033DBVT	296-2770-1-ND	3.3V, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77033DBVT	296-2770-2-ND	3.3V, 50mA LDO Regulator	SOT-23-5	120.00/250		
TPS77050DBVR	296-11052-1-ND	5V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77050DBVR	296-11052-2-ND	5V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77050DBVT	296-2771-1-ND	5V, 50mA LDO Regulator	SOT-23-5	.96	.80	.64
TPS77050DBVT	296-2771-2-ND	5V, 50mA LDO Regulator	SOT-23-5	120.00/250		
TPS77101DGK	296-8094-5-ND	Adjustable, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77101QDGKRQ1	296-22517-1-ND	Adj., 150mA LDO Regulator ***NEW!***	8-MSOP	1.75	1.40	1.05
TPS77101QDGKRQ1	296-22517-2-ND	Adj., 150mA LDO Regulator ***NEW!***	8-MSOP	2240.00/2,500		
TPS77115DGK	296-8095-5-ND	1.5V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77118DGK	296-8096-5-ND	1.8V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77127DGK	296-8097-5-ND	2.7V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77128DGK	296-8098-5-ND	2.8V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77133DGK	296-8099-5-ND	3.3V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77150DGK	296-8100-5-ND	5V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77201DGK	296-8101-5-ND	Adjustable, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77215DGK	296-8102-5-ND	1.5V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77218DGK	296-8103-5-ND	1.8V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77227DGK	296-8104-5-ND	2.7V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77228DGK	296-8105-5-ND	2.8V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77233DGK	296-8106-5-ND	3.3V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77250DGK	296-8107-5-ND	5V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77301DGK	296-8108-5-ND	Adjustable, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77315DGK	296-8109-5-ND	1.5V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77316DGK	296-13419-5-ND	250mA LDO Reg. with Reset Output	8-MSOP	1.75	1.40	1.05
TPS77318DGK	296-8110-5-ND	1.8V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77327DGK	296-8111-5-ND	2.7V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77328DGK	296-8112-5-ND	2.8V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77333DGK	296-8113-5-ND	3.3V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77350DGK	296-8114-5-ND	5V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77401DGK	296-8115-5-ND	Adjustable, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77401MDGKREP	296-22518-1-ND	Adj., 250mA LDO Regulator ***NEW!***	8-MSOP	4.03	3.23	2.51
TPS77401MDGKREP	296-22518-2-ND	Adj., 250mA LDO Regulator ***NEW!***	8-MSOP	5637.50/2,500		
TPS77415DGK	296-8116-5-ND	1.5V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77418DGK	296-8117-5-ND	1.8V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77427DGK	296-8118-5-ND	2.7V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77428DGK	296-8119-5-ND	2.8V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77433DGK	296-8120-5-ND	3.3V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77450DGK	296-8121-5-ND	5V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77501D	296-2772-5-ND	Adj., 500mA LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS77501MPWPREP	296-18163-1-ND	Adj., 500mA LDO Reg. ***NEW!***	20-HTSSOP	5.45	4.36	3.39
TPS77501MPWPREP	296-18163-2-ND	Adj., 500mA LDO Reg. ***NEW!***	20-HTSSOP	6172.00/2,000		
TPS77501PWP	296-8122-5-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77501QPWPRQ1	296-15296-1-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS77501QPWPRQ1	296-15296-2-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2806.00/2,000		
TPS77515D	296-2773-5-ND	1.5V, 500mA LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS77515MPWPREP	296-22519-1-ND	1.5V, 500mA LDO Reg. ***NEW!***	20-HTSSOP	5.45	4.36	3.39
TPS77515MPWPREP	296-22519-2-ND	1.5V, 500mA LDO Reg. ***NEW!***	20-HTSSOP	6172.00/2,000		
TPS77515PWP	296-8123-5-ND	1.5V, 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77516D	296-13420-5-ND	1.6V, 500mA LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS77516PWP	296-12401-5-ND	1.6V, 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77518D	296-2774-5-ND	1.8V, 500mA LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS77518MPWPREP	296-18164-1-ND	1.8V, 500mA LDO Reg. ***NEW!***	20-HTSSOP	5.45	4.36	3.39
TPS77518MPWPREP	296-18164-2-ND	1.8V, 500mA LDO Reg. ***NEW!***	20-HTSSOP	6172.00/2,000		
TPS77518PWP	296-8124-5-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77518QPWPRQ1	296-15297-1-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS77518QPWPRQ1	296-15297-2-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2806.00/2,000		
TPS77525D	296-2775-5-ND	2.5V, 500mA LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS77525MPWPREP	296-18165-1-ND	2.5V, 500mA LDO Reg. ***NEW!***	20-HTSSOP	5.45	4.36	3.39
TPS77525MPWPREP	296-18165-2-ND	2.5V, 500mA LDO Reg. ***NEW!***	20-HTSSOP	6172.00/2,000		
TPS77525PWP	296-8125-5-ND	2.5V, 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77533D	296-2776-5-ND	3.3V, 500mA LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS77533MPWPREP	296-18166-1-ND	3.3V, 500mA LDO Reg. ***NEW!***	20-HTSSOP	5.45	4.36	3.39
TPS77533MPWPREP	296-18166-2-ND	3.3V, 500mA LDO Reg. ***NEW!***	20-HTSSOP	6172.00/2,000		
TPS77533PWP	296-8126-5-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77533QPWPRQ1	296-15298-1-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS77533QPWPRQ1	296-15298-2-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	2806.00/2,000		
TPS77601D	296-2777-5-ND	Adj., 500mA LDO Regulator	8-SOIC	1.75	1.40	1.05
TPS77601PWP	296-8127-5-ND	Adj., 500mA LDO Regulator	20-HTSSOP	1.75	1.40	1.05
TPS77601QPWPREP	296-18167-1-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77601QPWPREP	296-18167-2-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2470.00/2,000		
TPS77601QPWPRQ1	296-15299-1-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2.13	1.70	1.28
TPS77601QPWPRQ1	296-15299-2-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2210.00/2,000		
TPS77615D	296-2778-5-ND	1.5V, 500mA LDO Regulator	8-SOIC	1.75	1.40	1.05
TPS77615PWP	296-11053-5-ND	1.5V, 500mA LDO Regulator	20-HTSSOP	1.75	1.40	1.05
TPS77615QPWPREP	296-22520-1-ND	1.5V, 500mA LDO Reg. ***NEW!***	20-HTSSOP	2.38	1.90	1.43
TPS77615QPWPREP	296-22520-2-ND	1.5V, 500mA LDO Reg. ***NEW!***	20-HTSSOP	2470.00/2,000		
TPS77618D	296-2779-5-ND	1.8V, 500mA LDO Regulator	8-SOIC	1.75	1.40	1.05
TPS77618PWP	296-8128-5-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	1.75	1.40	1.05
TPS77618QPWPREP	296-18168-1-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77618QPWPREP	296-18168-2-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2470.00/2,000		
TPS77618QPQPRQ1	296-15300-1-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2.13	1.70	1.28
TPS77618QPQPRQ1	296-15300-2-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2210.00/2,000		
TPS77625D	296-2780-5-ND	2.5V, 500mA LDO Regulator	8-SOIC	1.75	1.40	1.05
TPS77625PWP	296-8129-5-ND	2.5V, 500mA LDO Regulator	20-HTSSOP	1.75	1.40	1.05
TPS77625QPWPREP	296-22521-1-ND	2.5V, 500mA LDO Reg. ***NEW!***	20-HTSSOP	2.38	1.90	1.43
TPS77625QPWPREP	296-22521-2-ND	2.5V, 500mA LDO Reg. ***NEW!***	20-HTSSOP	2470.00/2,000		
TPS77628D	296-2781-5-ND	2.8V, 500mA LDO Regulator	8-SOIC	1.75	1.40	1.05
TPS77628PWP	296-8130-5-ND	2.8V, 500mA LDO Regulator	20-HTSSOP	1.75	1.40	1.05
TPS77633D	296-2782-5-ND	3.3V, 500mA LDO Regulator	8-SOIC	1.75	1.40	1.05
TPS77633PWP	296-8131-5-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	1.75	1.40	1.05
TPS77633QPWPREP	296-21285-1-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77633QPWPREP	296-21285-2-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	2470.00/2,000		
TPS77633QPWPRQ1	296-15301-1-ND	3.3V, 500mA LDO Regulator	20-TSSOP	2.13	1.70	1.28
TPS77633QPWPRQ1	296-15301-2-ND	3.3V, 500mA LDO Regulator	20-TSSOP	2210.00/2,000		
TPS77701D	296-2783-5-ND	Adjustable, 750mA LDO Regulator	8-SOIC	2.36	1.89	1.47
TPS77701PWP	296-8132-5-ND	Adjustable, 750mA LDO Regulator	20-HTSSOP	2.36	1.89	1.47
TPS77715D	296-2784-5-ND	1.5V, 750mA LDO Reg. with Reset Out	8-SOIC	2.36	1.89	1.47
TPS77715DR	296-17049-1-ND	1.5V, 750mA LDO Reg. with Reset Out	8-SOIC	4.20	3.15	2.37
TPS77715DR	296-17049-2-ND	1.5V, 750mA LDO Reg. with Reset Out	8-SOIC	3307.50/2,500		
TPS77715PWP	296-8133-5-ND	1.5V, 750mA LDO Regulator with Reset Out	20-HTSSOP	2.36	1.89	1.47
TPS77718D	296-2785-5-ND	1.8V, 750mA LDO Reg. with Reset Out	8-SOIC	2.36	1.89	1.47
TPS77718PWP	296-8134-5-ND	1.8V, 750mA LDO Regulator with Reset Out	20-HTSSOP	2.36	1.89	1.47
TPS77725D	296-2786-5-ND	2.5V, 750mA LDO Reg. with Reset Out	8-SOIC	2.36	1.89	1.47
TPS77725PWP	296-8135-5-ND	2.5V, 750mA LDO Regulator with Reset Out	20-HTSSOP	2.36	1.89	1.47
TPS77733D	296-2787-5-ND	3.3V, 750mA LDO Reg. with Reset Out	8-SOIC	2.36	1.89	1.47
TPS77733PWP	296-8136-5-ND	3.3V, 750mA LDO Regulator with Reset Out	20-HTSSOP	2.36	1.89	1.47
TPS77801D	296-2788-5-ND	Adjustable, 750mA LDO Regulator	8-SOIC	2.25	1.80	1.40
TPS77801PWP	296-8137-5-ND	Adjustable, 750mA LDO Regulator	20-HTSSOP	2.25	1.80	1.40
TPS77815D	296-2789-5-ND	1.5V, 750mA LDO Regulator	8-SOIC	2.25	1.80	1.40
TPS77815PWP	296-8138-5-ND	1.5V, 750mA LDO Regulator	20-HTSSOP	2.25	1.80	1.40
TPS77818D	296-2790-5-ND	1.8V, 750mA LDO Regulator	8-SOIC	2.25	1.80	1.40

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS77818PWP	296-8139-5-ND	1.8V, 750mA LDO Regulator	20-HTSSOP	2.25	1.80	1.40
TPS77825D	296-2791-5-ND	2.5V, 750mA LDO Regulator	8-SOIC	2.25	1.80	1.40
TPS77825PWP	296-8140-5-ND	2.5V, 750mA LDO Regulator	20-HTSSOP	2.25	1.80	1.40
TPS77833D	296-2792-5-ND	3.3V, 750mA LDO Regulator	8-SOIC	2.25	1.80	1.40
TPS77833PWP	296-8141-5-ND	3.3V, 750mA LDO Regulator	20-HTSSOP	2.25	1.80	1.40
TPS77901DGK	296-8142-5-ND	Adjustable, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77918DGK	296-8143-5-ND	1.8V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77925DGK	296-8144-5-ND	2.5V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77930DGK	296-8145-5-ND	3V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS78001DDCR	296-23331-1-ND	Adj., 150mA, LDO Regulator ***NEW!***	5-SOT	1.50	1.20	.90
TPS78001DDCR	296-23331-2-ND	Adj., 150mA, LDO Regulator ***NEW!***	5-SOT	2304.00/3,000		
TPS78101DDCR	296-23333-1-ND	Adj., 150mA, LDO Regulator ***NEW!***	5-SOT	1.25	1.00	.75
TPS78101DDCR	296-23333-2-ND	Adj., 150mA, LDO Regulator ***NEW!***	5-SOT	1920.00/3,000		
TPS78601DCQR	296-13755-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78601DCQR	296-13755-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4252.50/2,500		
TPS78601KTTT	296-14421-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	3.60	2.88	—
TPS78601KTTT	296-14421-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	112.00/50		
TPS78618DCQR	296-13756-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78618DCQR	296-13756-2-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4252.50/2,500		
TPS78618KTTT	296-14422-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	3.60	2.88	—
TPS78618KTTT	296-14422-2-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	112.00/50		
TPS78625DCQR	296-13757-1-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78625DCQR	296-13757-2-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4252.50/2,500		
TPS78625KTTT	296-14423-1-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	3.60	2.88	—
TPS78625KTTT	296-14423-2-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	112.00/50		
TPS78628DCQR	296-13758-1-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78628DCQR	296-13758-2-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4252.50/2,500		
TPS78628KTTT	296-14424-1-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	3.60	2.88	—
TPS78628KTTT	296-14424-2-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	112.00/50		
TPS78630DCQR	296-13759-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78630DCQR	296-13759-2-ND	3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4252.50/2,500		
TPS78630KTTT	296-14425-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	3.60	2.88	—
TPS78630KTTT	296-14425-2-ND	3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	112.00/50		
TPS78633DCQ	296-13760-5-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78633DCQR	296-13760-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78633DCQR	296-13760-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4252.50/2,500		
TPS78633EVM-207	296-20625-ND	Evaluation Module for TPS78633	—	50.00	—	—
TPS78633KTTT	296-14426-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	3.60	2.88	—
TPS78633KTTT	296-14426-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	112.00/50		
TPS78825DBVR	296-12379-1-ND	150mA, 2.5V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1.14	.95	.76
TPS78825DBVR	296-12379-2-ND	150mA, 2.5V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1482.00/3,000		
TPS78833DBVR	296-12380-1-ND	150mA, 3.3V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1.14	.95	.76
TPS78833DBVR	296-12380-2-ND	150mA, 3.3V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1482.00/3,000		
TPS78833EVM	296-13592-ND	Evaluation Module for TPS78833	—	50.00	—	—
TPS78915DBVR	296-8146-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS78915DBVR	296-8146-2-ND	1.5V, 100mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS78918DBVR	296-8147-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS78918DBVR	296-8147-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS78925DBVR	296-8148-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS78925DBVR	296-8148-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS78928DBVR	296-8149-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS78928DBVR	296-8149-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS78930DBVR	296-8150-1-ND	3.0V, 100mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS78930DBVR	296-8150-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5	1170.00/3,000		
TPS79015DBVR	296-8151-1-ND	1.5V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79015DBVR	296-8151-2-ND	1.5V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS79018DBVR	296-8152-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79018DBVR	296-8152-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS79025DBVR	296-8153-1-ND	2.5V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79025DBVR	296-8153-2-ND	2.5V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS79028DBVR	296-8154-1-ND	2.8V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79028DBVR	296-8154-2-ND	2.8V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS79030DBVR	296-8155-1-ND	3V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79030DBVR	296-8155-2-ND	3V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS79101DBVR	296-11864-1-ND	Adj., 100mA LDO Regulator	SOT-23-6	1.20	1.00	.80
TPS79101DBVR	296-11864-2-ND	Adj., 100mA LDO Regulator	SOT-23-6	1560.00/3,000		
TPS79101DBVREP	296-22522-1-ND	Adj., 100mA LDO Reg. ***NEW!***	SOT-23-6	1.35	1.08	.81
TPS79101DBVREP	296-22522-2-ND	Adj., 100mA LDO Reg. ***NEW!***	SOT-23-6	2073.00/3,000		
TPS79101DBVRQ1	296-15302-1-ND	Adj., 100mA LDO Regulator	SOT-23-6	1.41	1.18	.94
TPS79101DBVRQ1	296-15302-2-ND	Adj., 100mA LDO Regulator	SOT-23-6	1833.00/3,000		
TPS79118DBVR	296-11865-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1.20	1.00	.80
TPS79118DBVR	296-11865-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1560.00/3,000		
TPS79118DBVREP	296-22523-1-ND	1.8V, 100mA LDO Reg. ***NEW!***	SOT-23-5	1.35	1.08	.81
TPS79118DBVREP	296-22523-2-ND	1.8V, 100mA LDO Reg. ***NEW!***	SOT-23-5	2073.00/3,000		
TPS79118DBVRQ1	296-15303-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1.41	1.18	.94
TPS79118DBVRQ1	296-15303-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1833.00/3,000		
TPS79133DBVR	296-11866-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.20	1.00	.80
TPS79133DBVR	296-11866-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1560.00/3,000		
TPS79133DBVREP	296-22524-1-ND	3.3V, 100mA LDO Reg. ***NEW!***	SOT-23-5	1.35	1.08	.81
TPS79133DBVREP	296-22524-2-ND	3.3V, 100mA LDO Reg. ***NEW!***	SOT-23-5	2073.00/3,000		
TPS79133DBVRQ1	296-15304-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.41	1.18	.94
TPS79133DBVRQ1	296-15304-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1833.00/3,000		
TPS79147DBVR	296-11867-1-ND	4.7V, Ultra Low Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	1.20	1.00	.80
TPS79147DBVR	296-11867-2-ND	4.7V, Ultra Low Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	1560.00/3,000		
TPS79147DBVREP	296-18169-1-ND	4.7V, Ultra Low Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	1.35	1.08	.81
TPS79147DBVREP	296-18169-2-ND	4.7V, Ultra Low Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	2073.00/3,000		
TPS79147DBVT	296-13707-1-ND	4.7V, Ultra Low Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	1.32	1.10	.88
TPS79147DBVT	296-13707-2-ND	4.7V, Ultra Low Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	165.00/250		
TPS79201DBVR	296-11868-1-ND	Adj., 100mA LDO Regulator	SOT-23-6	1.20	1.00	.80
TPS79201DBVR	296-11868-2-ND	Adj., 100mA LDO Regulator	SOT-23-6	1560.00/3,000		
TPS79225DBVR	296-11869-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	1.20	1.00	.80
TPS79225DBVR	296-11869-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	1560.00/3,000		
TPS79228DBVR	296-11870-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	1.20	1.00	.80
TPS79228DBVR	296-11870-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	1560.00/3,000		
TPS79230DBVR	296-11871-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.20	1.00	.80
TPS79230DBVR	296-11871-2-ND	3V, 100mA LDO Regulator	SOT-23-5	1560.00/3,000		
TPS79230DBVT	296-19004-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.32	1.10	.88
TPS79230DBVT	296-19004-2-ND	3V, 100mA LDO Regulator	SOT-23-5	165.00/250		
TPS79301DBVR	296-12154-1-ND	Adj., 200mA High PSRR RF LDO Regulator	SOT-23-6	.88	.66	.50
TPS79301DBVR	296-12154-2-ND	Adj., 200mA High PSRR RF LDO Regulator	SOT-23-6	858.00/3,000		
TPS79301DBVREP	296-18170-1-ND	Adj., 200mA High PSRR RF LDO Regulator ***NEW!***	SOT-23-6	.90	.75	.60
TPS79301DBVREP	296-18170-2-ND	Adj., 200mA High PSRR RF LDO Regulator ***NEW!***	SOT-23-6	1170.00/3,000		
TPS79301DBVRQ1	296-15305-1-ND	Adj., 200mA High PSRR RF LDO Regulator	SOT-23-6	.78	.65	.52
TPS79301DBVRQ1	296-15305-2-ND	Adj., 200mA High PSRR RF LDO Regulator	SOT-23-6	1014.00/3,000		
TPS79301EVM	296-13593-ND	Evaluation Module for TPS79301	—	50.00	—	—
TPS79301MDBVREP	296-22525-1-ND	Adj., 200mA High PSRR RF LDO Regulator ***NEW!***	SOT-23-5	1.48	1.18	.89
TPS79301MDBVREP	296-22525-2-ND	Adj., 200mA High PSRR RF LDO Regulator ***NEW!***	SOT-23-5	2265.00/3,000		
TPS79318DBVR	296-12155-1-ND	1.8V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS79318DBVR	296-12155-2-ND	1.8V, 200mA High PSRR RF LDO Regulator	SOT-23-5	858.00/3,000		
TPS79318DBVREP	296-18171-1-ND	1.8V, 200mA High PSRR RF LDO Regulator ***NEW!***	SOT-23-5	.90	.75	.60
TPS79318DBVREP	296-18171-2-ND	1.8V, 200mA High PSRR RF LDO Regulator ***NEW!***	SOT-23-5	1170.00/3,000		
TPS79318DBVRQ1	296-15306-1-ND	1.8V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.78	.65	.52
TPS79318DBVRQ1	296-15306-2-ND	1.8V, 200mA High PSRR RF LDO Regulator	SOT-23-5	1014.00/3,000		
TPS79318YEQEVM	296-19005-ND	Evaluation Module for TPS79318YEQ	—	10.20	—	—
TPS79318YEQT	296-17026-1-ND	1.8V, 200mA, High PSRR RF LDO Reg.	5-CSP	.87	.73	.58
TPS79318YEQT	296-17026-2-ND	1.8V, 200mA, High PSRR RF LDO Regulator	5-CSP	108.75/250		
TPS79318YZQR	296-18064-1-ND	1.8V, 200mA, High PSRR RF LDO Regulator	5-DSBGA	.81	.68	.54
TPS79318YZQR	296-18064-2-ND	1.8V, 200mA, High PSRR RF LDO Regulator	5-DSBGA	1053.00/3,000		
TPS79325DBVR	296-12156-1-ND	2.5V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS79325DBVR	296-12156-2-ND	2.5V, 200mA High PSRR RF LDO Regulator	SOT-23-5	858.00/3,000		
TPS79325DBVREP	296-22526-1-ND	2.5V, 200mA High PSRR RF LDO Regulator ***NEW!***	SOT-23-5	.90	.75	.60
TPS79325DBVREP	296-22526-2-ND	2.5V, 200mA High PSRR RF LDO Regulator ***NEW!***	SOT-23-5	1170.00/3,000		
TPS79325DBVRQ1	296-15307-1-ND	2.5V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.78	.65	.52
TPS79325DBVRQ1	296-15307-2-ND	2.5V, 200mA High PSRR RF LDO Regulator	SOT-23-5	1014.00/3,000		
TPS79325YEQEVM	296-19006-ND	Evaluation Module for TPS79325YEQ	—	10.20	—	—
TPS79325YEQT	296-17233-1-ND	2.5V, 200mA High PSRR RF LDO Regulator	5-WCSP	.87	.73	.58
TPS79325YEQT	296-17233-2-ND	2.5V, 200mA High PSRR RF LDO Regulator	5-WCSP	108.75/250		
TPS79325YZQR	296-21286-1-ND	2.5V, 200mA High PSRR RF LDO Regulator	5-DSBGA	.81	.68	.54
TPS79325YZQR	296-21286-2-ND	2.5V, 200mA High PSRR RF LDO Regulator	5-DSBGA	1053.00/3,000		
TPS79328DBVR	296-12158-1-ND	2.8V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS79328DBVR	296-12158-2-ND	2.8V, 200mA High PSRR RF LDO Regulator	SOT-23-5	858.00/3,000		
TPS79328EVM	296-13594-ND	Evaluation Module for TPS79328	—	50.00	—	—
TPS79328YEQEVM	296-19008-ND	Evaluation Module for TPS79328YEQ	—	10.20	—	—
TPS79328YEQT	296-19009-ND	2.8V, 200mA High PSRR RF LDO Regulator	5-DSBGA	.87	.73	.58
TPS79328YZQT	296-18735-1-ND	2.8V, 200mA High PSRR RF LDO Regulator	5-DSBGA	.87	.73	.58
TPS79328YZQT	296-18735-2-ND	2.8V, 200mA High PSRR RF LDO Regulator	5-DSBGA	108.75/250		
TPS79330DBVR	296-12159-1-ND	3V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS79330DBVR	296-12159-2-ND	3V, 200mA High PSRR RF LDO Regulator	SOT-23-5	858.00/3,000		

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS79330YEQEVM	296-19010-ND	Evaluation Module for TPS79330YEQ	—	10.20	—	—
TPS79330YEQT	296-16968-1-ND	3V, 200mA High PSRR, RF LDO Regulator	5-DSBGA	.87	.73	.58
TPS79330YEQT	296-16968-2-ND	3V, 200mA High PSRR, RF LDO Regulator	5-DSBGA	108.75/250		
TPS79330YZQR	296-19894-1-ND	3V, 200mA High PSRR, RF LDO Regulator	5-DSBGA	.81	.68	.54
TPS79330YZQR	296-19894-2-ND	3V, 200mA High PSRR, RF LDO Reg	5-DSBGA	1053.00/3,000		
TPS79333DBVR	296-12961-1-ND	3.3V, 200mA, Ultra Low Noise, High PSRR, Fast RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS79333DBVR	296-12961-2-ND	3.3V, 200mA, Ultra Low Noise, High PSRR, Fast RF LDO Regulator	SOT-23-5	858.00/3,000		
TPS79333DBVREP	296-18172-1-ND	3.3V, 200mA, Ultra Low Noise, High PSRR, Fast RF LDO Regulator	SOT-23-5	.90	.75	.60
TPS79333DBVREP	296-18172-2-ND	3.3V, 200mA, Ultra Low Noise, High PSRR, Fast RF LDO Regulator	SOT-23-5	1170.00/3,000		
TPS79333DBVRQ1	296-15308-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 200mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS79333DBVRQ1	296-15308-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 200mA LDO Regulator	SOT-23-5	1014.00/3,000		
TPS79401DCQR	296-14427-1-ND	Adj., Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	1.63	1.30	.98
TPS79401DCQR	296-14427-2-ND	Adj., Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	2080.00/2,500		
TPS79401DGNR	296-13526-1-ND	Adj., Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.63	1.30	.98
TPS79401DGNR	296-13526-2-ND	Adj., Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	2080.00/2,500		
TPS79401DGNT	296-14428-1-ND	Adj., Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.75	1.40	1.05
TPS79401DGNT	296-14428-2-ND	Adj., Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	245.00/250		
TPS79418DCQR	296-14429-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	1.63	1.30	.98
TPS79418DCQR	296-14429-2-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	2080.00/2,500		
TPS79418DGNR	296-14213-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.63	1.30	.98
TPS79418DGNR	296-14213-2-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	2080.00/2,500		
TPS79418DGNT	296-14430-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.75	1.40	1.05
TPS79418DGNT	296-14430-2-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	245.00/250		
TPS79425DCQR	296-14431-1-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	1.63	1.30	.98
TPS79425DCQR	296-14431-2-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	2080.00/2,500		
TPS79425DGNR	296-13527-1-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.63	1.30	.98
TPS79425DGNR	296-13527-2-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	2080.00/2,500		
TPS79425DGNT	296-14432-1-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.75	1.40	1.05
TPS79425DGNT	296-14432-2-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	245.00/250		
TPS79428DCQR	296-14433-1-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	1.63	1.30	.98
TPS79428DCQR	296-14433-2-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	2080.00/2,500		
TPS79428DGNR	296-13528-1-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.63	1.30	.98
TPS79428DGNR	296-13528-2-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	2080.00/2,500		
TPS79428DGNT	296-14434-1-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.75	1.40	1.05
TPS79428DGNT	296-14434-2-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	245.00/250		
TPS79430DCQR	296-14435-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	1.63	1.30	.98
TPS79430DCQR	296-14435-2-ND	3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	2080.00/2,500		
TPS79430DGNR	296-13529-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.63	1.30	.98
TPS79430DGNR	296-13529-2-ND	3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	2080.00/2,500		
TPS79430DGNT	296-14436-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.75	1.40	1.05
TPS79430DGNT	296-14436-2-ND	3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	245.00/250		
TPS79433DCQR	296-14437-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	1.63	1.30	.98
TPS79433DCQR	296-14437-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	2080.00/2,500		
TPS79433DGNR	296-13530-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.63	1.30	.98
TPS79433DGNR	296-13530-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	2080.00/2,500		
TPS79433DGNT	296-14438-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.75	1.40	1.05
TPS79433DGNT	296-14438-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	245.00/250		
TPS79501DCQR	296-13806-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2.36	1.89	1.47
TPS79501DCQR	296-13806-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	3307.50/2,500		
TPS79501DRBR	296-20792-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	8-SON	2.48	1.98	1.54
TPS79501DRBR	296-20792-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	8-SON	4158.00/3,000		
TPS79516DCQR	296-13807-1-ND	1.6V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	2.36	1.89	1.47
TPS79516DCQR	296-13807-2-ND	1.6V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	3307.50/2,500		
TPS79518DCQR	296-13808-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	2.36	1.89	1.47
TPS79518DCQR	296-13808-2-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	3307.50/2,500		
TPS79525DCQ	296-14753-5-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	2.36	1.89	1.47
TPS79530DCQR	296-13809-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	2.36	1.89	1.47
TPS79530DCQR	296-13809-2-ND	3V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	3307.50/2,500		
TPS79533DCQR	296-13810-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	2.36	1.89	1.47
TPS79533DCQR	296-13810-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-6	3307.50/2,500		
TPS79601DCQR	296-13761-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	2.48	1.98	1.54
TPS79601DCQR	296-13761-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3465.00/2,500		
TPS79601DRBR	296-23107-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Reg. ***NEW!***	8-SON	2.70	2.16	1.68
TPS79601DRBR	296-23107-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Reg. ***NEW!***	8-SON	4536.00/3,000		
TPS79601KTTT	296-14439-1-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.93	2.34	—
TPS79601KTTT	296-14439-2-ND	1.2V to 5.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	91.00/50		
TPS79613DRBR	296-22713-1-ND	1.3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Reg. ***NEW!***	8-SON	2.70	2.16	1.68
TPS79613DRBR	296-22713-2-ND	1.3V, Ultralow Noise, High PSRR, Fast RF, 1A LDO Reg. ***NEW!***	8-SON	4536.00/3,000		
TPS79618DCQR	296-13762-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	2.48	1.98	1.54
TPS79618DCQR	296-13762-2-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3465.00/2,500		
TPS79618KTTT	296-16664-1-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.93	2.34	—
TPS79618KTTT	296-16664-2-ND	1.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	91.00/50		
TPS79625DCQR	296-13763-1-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	2.48	1.98	1.54
TPS79625DCQR	296-13763-2-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3465.00/2,500		
TPS79625KTTT	296-14441-1-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.93	2.60	—
TPS79625KTTT	296-14441-2-ND	2.5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	117.00/50		
TPS79628DCQR	296-13764-1-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	2.48	1.98	1.54
TPS79628DCQR	296-13764-2-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3465.00/2,500		
TPS79628DRBT	296-17875-1-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	8-SON	2.93	2.34	1.82
TPS79628DRBT	296-17875-2-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	8-SON	432.25/250		
TPS79628KTT	296-14442-5-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.66	2.13	1.66
TPS79628KTTT	296-16737-1-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.93	2.34	—
TPS79628KTTT	296-16737-2-ND	2.8V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	91.00/50		
TPS79630DCQR	296-13765-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	2.48	1.98	1.54
TPS79630DCQR	296-13765-2-ND	3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3465.00/2,500		
TPS79630KTTT	296-14443-1-ND	3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.93	2.34	—
TPS79630KTTT	296-14443-2-ND	3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	91.00/50		
TPS79633DCQR	296-13766-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	2.48	1.98	1.54
TPS79633DCQR	296-13766-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3465.00/2,500		
TPS79633KTTT	296-14444-1-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.93	2.34	—
TPS79633KTTT	296-14444-2-ND	3.3V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	91.00/50		
TPS79650DCQR	296-19746-1-ND	5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	2.48	1.98	1.54
TPS79650DCQR	296-19746-2-ND	5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-6	3465.00/2,500		
TPS79650DRBR	296-21352-1-ND	5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	8-SON	2.48	1.98	1.54
TPS79650DRBR	296-21352-2-ND	5V, Ultra Low Noise, High PSRR, Fast RF 1A LDO Regulator	8-SON	2806.00/2,000		
TPS79718DCKR	296-11988-1-ND	1.8V, 10mA Micropower LDO Voltage Regulator	SC70-5	1.02	.85	.68
TPS79718DCKR	296-11988-2-ND	1.8V, 10mA Micropower LDO Voltage Regulator	SC70-5	1326.00/3,000		
TPS79718MDCKREP	296-23335-1-ND	1.8V, 10mA LDO Linear Voltage Regulator ***NEW!***	SC70-5	2.70	2.16	1.68
TPS79718MDCKREP	296-23335-2-ND	1.8V, 10mA LDO Linear Voltage Regulator ***NEW!***	SC70-5	4536.00/3,000		
TPS79730DCKR	296-11989-1-ND	3V, 10mA Micropower LDO Voltage Regulator	SC70-5	1.02	.85	.68
TPS79730DCKR	296-11989-2-ND	3V, 10mA Micropower LDO Voltage Regulator	SC70-5	1326.00/3,000		
TPS79730MDCKREP	296-22527-1-ND	3V, 10mA LDO Linear Voltage Regulator ***NEW!***	SC70-5	2.18	1.74	1.31
TPS79730MDCKREP	296-22527-2-ND	3V, 10mA LDO Linear Voltage Regulator ***NEW!***	SC70-5	3342.00/3,000		
TPS79733DCKR	296-11990-1-ND	3.3V, 10mA Micro LDO Voltage Reg.	SC70-5	1.02	.85	.68
TPS79733DCKR	296-11990-2-ND	3.3V, 10mA Micro LDO Voltage Reg.	SC70-5	1326.00/3,000		
TPS79733EVM	296-13595-ND	Evaluation Module for TPS79733	—	50.00	—	—

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS79901DDCR	296-17776-1-ND	Adj., 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79901DDCR	296-17776-2-ND	Adj., 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79901YZUT	296-18343-1-ND	Adj., 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79901YZUT	296-18343-2-ND	Adj., 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79912DDCR	296-21939-1-ND	1.2V, 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79912DDCR	296-21939-2-ND	1.2V, 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79912DRVT	296-22870-1-ND	1.2V, 200mA LDO Linear Reg. ***NEW!***	6-SON	1.20	1.00	.80
TPS79912DRVT	296-22870-2-ND	1.2V, 200mA LDO Linear Reg. ***NEW!***	6-SON	150.00/250		
TPS79912YZUT	296-18736-1-ND	1.2V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79912YZUT	296-18736-2-ND	1.2V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79913DDCR	296-21287-1-ND	1.3V, 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79913DDCR	296-21287-2-ND	1.3V, 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79915DDCR	296-17777-1-ND	1.5V, 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79915DDCR	296-17777-2-ND	1.5V, 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79915YZUR	296-20715-1-ND	1.5V, 200mA LDO Linear Regulator	5-DSBGA	.99	.83	.66
TPS79915YZUR	296-20715-2-ND	1.5V, 200mA LDO Linear Regulator	5-DSBGA	1287.00/3,000		
TPS79918DDCR	296-17778-1-ND	1.8V, 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79918DDCR	296-17778-2-ND	1.8V, 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79919YZUT	296-18344-1-ND	1.9V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79919YZUT	296-18344-2-ND	1.9V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79920YZUT	296-21564-1-ND	2V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79920YZUT	296-21564-2-ND	2V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79921YZUR	296-22988-1-ND	2.1V, 200mA LDO Linear Regulator ***NEW!***	5-DSBGA	1.05	.88	.70
TPS79921YZUR	296-22988-2-ND	2.1V, 200mA LDO Linear Regulator ***NEW!***	5-DSBGA	1365.00/3,000		
TPS79925DDCT	296-17779-1-ND	2.5V, 200mA LDO Linear Regulator	TSOT-23-5	.93	.78	.62
TPS79925DDCT	296-17779-2-ND	2.5V, 200mA LDO Linear Regulator	TSOT-23-5	116.25/250		
TPS79925YZUT	296-18345-1-ND	2.5V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79925YZUT	296-18345-2-ND	2.5V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79927DDCR	296-20730-1-ND	2.7V, 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79927DDCR	296-20730-2-ND	2.7V, 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79927YZUT	296-18346-1-ND	2.7V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79927YZUT	296-18346-2-ND	2.7V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79928DDCR	296-17781-1-ND	2.8V, 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79928DDCR	296-17781-2-ND	2.8V, 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79928YZUT	296-18738-1-ND	2.8V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79928YZUT	296-18738-2-ND	2.8V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79930DDCT	296-17782-1-ND	3V, 200mA LDO Linear Regulator	TSOT-23-5	.93	.78	.62
TPS79930DDCT	296-17782-2-ND	3V, 200mA LDO Linear Regulator	TSOT-23-5	116.25/250		
TPS79930YZUT	296-18739-1-ND	3V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79930YZUT	296-18739-2-ND	3V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79933DDCR	296-17783-1-ND	3.3V, 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79933DDCR	296-17783-2-ND	3.3V, 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79933DRVR	296-19748-1-ND	3.3V, 200mA LDO Linear Regulator	6-SON	1.11	.93	.74
TPS79933DRVR	296-19748-2-ND	3.3V, 200mA LDO Linear Regulator	6-SON	1443.00/3,000		
TPS79933YZUT	296-18740-1-ND	3.3V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79933YZUT	296-18740-2-ND	3.3V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79942DDCR	296-21903-1-ND	4.2V, 200mA LDO Regulator	TSOT-23-5	.87	.73	.58
TPS79942DDCR	296-21903-2-ND	4.2V, 200mA LDO Regulator	TSOT-23-5	1131.00/3,000		
TPS79945YZUR	296-21904-1-ND	4.5V, 200mA LDO Regulator	5-DSBGA	.99	.83	.66
TPS79945YZUR	296-21904-2-ND	4.5V, 200mA LDO Regulator	5-DSBGA	1287.00/3,000		
TPS715345DCKR	296-18732-1-ND	3.45V, 50mA LDO Regulator	SC70-5	1.02	.85	.68
TPS715345DCKR	296-18732-2-ND	3.45V, 50mA LDO Regulator	SC70-5	1326.00/3,000		
TPS717285DCKR	296-19649-1-ND	2.85V, 150mA LDO Regulator	SC70-5	1.35	1.13	.90
TPS717285DCKR	296-19649-2-ND	2.85V, 150mA LDO Regulator	SC70-5	1755.00/3,000		
TPS726126DCQ	296-18257-ND	1.26V, 1A, LDO Regulator	SOT-223-6	2.48	—	—
TPS730285DBVT	296-21899-1-ND	2.85V, 200mA LDO Regulator	SOT-23-5	.76	.57	.43
TPS730285DBVT	296-21899-2-ND	2.85V, 200mA LDO Regulator	SOT-23-5	78.75/250		
TPS730285YZQR	296-18733-1-ND	2.85V, 200mA LDO Regulator	5-DSBGA	.84	.63	.48
TPS730285YZQR	296-18733-2-ND	2.85V, 200mA LDO Regulator	5-DSBGA	819.00/3,000		
TPS731125DBVR	296-21276-1-ND	1.25V, 150mA LDO Regulator	SOT-23-5	1.29	1.08	.86
TPS731125DBVR	296-21276-2-ND	1.25V, 150mA LDO Regulator	SOT-23-5	1677.00/3,000		
TPS736125DRBT	296-18252-1-ND	1.25V, 400mA LDO Regulator	8-SON	2.38	1.90	1.43
TPS736125DRBT	296-18252-2-ND	1.25V, 400mA LDO Regulator	8-SON	332.50/250		
TPS793285DBVR	296-12157-1-ND	2.85V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS793285DBVR	296-12157-2-ND	2.85V, 200mA High PSRR RF LDO Regulator	SOT-23-5	858.00/3,000		
TPS793285YEQEVM	296-19007-ND	Evaluation Module for TPS793285YEQ	—	10.20	—	—
TPS793285YEQT	296-15725-1-ND	2.85V, 200mA High PSRR RF LDO Regulator	5-DSBGA	.87	.73	.58
TPS793285YEQT	296-15725-2-ND	2.85V, 200mA High PSRR RF LDO Regulator	5-DSBGA	108.75/250		
TPS793285YZQR	296-18065-1-ND	2.85V, 200mA High PSRR RF LDO Regulator	5-DSBGA	.81	.68	.54
TPS793285YZQR	296-18065-2-ND	2.85V, 200mA, High PSRR RF LDO Regulator	5-DSBGA	1053.00/3,000		
TPS793475DBVR	296-12160-1-ND	4.75V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS793475DBVR	296-12160-2-ND	4.75V, 200mA High PSRR RF LDO Regulator	SOT-23-5	858.00/3,000		
TPS793475DBVREP	296-18173-1-ND	4.75V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.90	.75	.60
TPS793475DBVREP	296-18173-2-ND	4.75V, 200mA, High PSRR RF LDO Regulator	SOT-23-5	1170.00/3,000		
TPS79901DRVT	296-19299-1-ND	Adj., 200mA LDO Regulator	6-SON	1.20	1.00	.80
TPS79901DRVT	296-19299-2-ND	Adj., 200mA LDO Regulator	6-SON	150.00/250		
TPS79913YZUR	296-19615-1-ND	200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	.99	.83	.66
TPS79913YZUR	296-19615-2-ND	200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	1287.00/3,000		
TPS79918DRVT	296-19367-1-ND	1.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	6-SON	1.20	1.00	.80
TPS79918DRVT	296-19367-2-ND	1.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	6-SON	150.00/250		
TPS79918YZUR	296-19482-1-ND	1.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	.99	.83	.66
TPS79918YZUR	296-19482-2-ND	1.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	1287.00/3,000		
TPS79918YZUT	296-19300-1-ND	1.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79918YZUT	296-19300-2-ND	1.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79926YZUR	296-19562-1-ND	200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	.99	.83	.66
TPS79926YZUR	296-19562-2-ND	200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	1287.00/3,000		
TPS79927DRVT	296-19368-1-ND	2.7V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	6-SON	1.20	1.00	.80
TPS79927DRVT	296-19368-2-ND	2.7V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	6-SON	150.00/250		
TPS79928DRVT	296-19369-1-ND	2.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	6-SON	1.20	1.00	.80
TPS79928DRVT	296-19369-2-ND	2.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	6-SON	150.00/250		
TPS79928YZUR	296-19484-1-ND	2.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	.99	.83	.66
TPS79928YZUR	296-19484-2-ND	2.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	1287.00/3,000		
TPS79932YZUR	296-19563-1-ND	200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	.99	.83	.66
TPS79932YZUR	296-19563-2-ND	200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	1287.00/3,000		
TPS799195DRVR	296-19895-1-ND	1.95V, 200mA LDO Regulator	6-SON	1.11	.93	.74
TPS799195DRVR	296-19895-2-ND	1.95V, 200mA LDO Regulator	6-SON	1443.00/3,000		
TPS799275YZUR	296-21430-1-ND	2.75V, 200mA LDO Regulator	5-DSBGA	.99	.83	.66
TPS799275YZUR	296-21430-2-ND	2.75V, 200mA LDO Regulator	5-DSBGA	1287.00/3,000		
TPS799285DDCR	296-17780-1-ND	2.85V, 200mA LDO Linear Reg.	TSOT-23-5	.87	.73	.58
TPS799285DDCR	296-17780-2-ND	2.85V, 200mA LDO Linear Reg.	TSOT-23-5	1131.00/3,000		
TPS799285DRVR	296-19747-1-ND	2.85V, 200mA LDO Regulator	6-SON	1.11	.93	.74
TPS799285DRVR	296-19747-2-ND	2.85V, 200mA LDO Regulator	6-SON	1443.00/3,000		
TPS799285YZUR	296-19483-1-ND	2.85V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	.99	.83	.66
TPS799285YZUR	296-19483-2-ND	2.85V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	1287.00/3,000		
TPS799285YZUT	296-18737-1-ND	2.85V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS799285YZUT	296-18737-2-ND	2.85V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS728185315DRVT	296-22620-1-ND	0.9V to 3.6V, 200mA LDO Linear Regulator ***NEW!***	6-SON	1.29	1.08	.86
TPS728185315DRVT	296-22620-2-ND	0.9V to 3.6V, 200mA LDO Linear Regulator ***NEW!***	6-SON	161.25/250		
TPS728185315YZUR	296-23106-1-ND	0.9V to 3.6V, 200mA LDO Linear Regulator ***NEW!***	5-DSBGA	1.17	.98	.78
TPS728185315YZUR	296-23106-2-ND	0.9V to 3.6V, 200mA LDO Linear Regulator ***NEW!***	5-DSBGA	1521.00/3,000		
TPS780330220DDCR	296-23332-1-ND	3.3V or 2.2V Dual Level Output, 150mA, LDO Regulator ***NEW!***	5-SOT	1.50	1.20	.90
TPS780330220DDCR	296-23332-2-ND	3.3V or 2.2V Dual Level Output, 150mA LDO Regulator ***NEW!***	5-SOT	2304.00/3,000		
TPS781330220DDCR	296-23334-1-ND	3.3V or 2.2V Dual Level Output, 150mA, LDO Regulator ***NEW!***	5-SOT	1.25	1.00	.75
TPS781330220DDCR	296-23334-2-ND	3.3V or 2.2V Dual Level Output, 150mA LDO Regulator ***NEW!***	5-SOT	1920.00/3,000		
UC282T-1	296-15146-5-ND	1.5V, Fast LDO Regulator	TO-220-5	6.20	4.96	4.19
UC282T-2	296-15147-5-ND	2.1V, Fast LDO Regulator	TO-220-5	6.20	4.96	4.19
UC282T-3	296-15148-5-ND	2.5V, Fast LDO Regulator	TO-220-5	6.20	4.96	4.19
UC282T-ADJ	296-15149-5-ND	Adj, Fast LDO Regulator	TO-220-5	6.20	4.96	4.19
UC282TD-3	296-2795-5-ND	2.5V, Fast LDO Regulator	TO-263-5	5.60	4.48	3.78
UC282TDKTTT-1	296-16011-1-ND	1.5V, Fast LDO Regulator	TO-263-5	6.20	4.96	—
UC282TDKTTT-1	296-16011-2-ND	1.5V, Fast LDO Regulator	TO-263-5	209.25/50		
UC282TDKTTT-2	296-16012-1-ND	2.1V, Fast LDO Regulator	TO-263-5	6.20	4.96	—
UC282TDKTTT-2	296-16012-2-ND	2.1V, Fast LDO Regulator	TO-263-5	209.25/50		
UC282TDKTTT-3	296-16013-5-ND	2.5V, Fast LDO Regulator	TO-263-5	6.20	4.96	4.19
UC282TDKTTT-ADJ	296-16014-1-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	6.20	4.96	—
UC282TDKTTT-ADJ	296-16014-2-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	209.25/50		
UC282TDTR-ADJ	296-18067-1-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	6.20	4.96	4.19
UC282TDTR-ADJ	296-18067-2-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	1968.50/500		
UC282TDTR-1	296-19030-1-ND	1.5V, Fast LDO Regulator	TO-263-5	6.20	4.96	4.19
UC282TDTR-1	296-19030-2-ND	1.5V, Fast LDO Regulator	TO-263-5	1968.50/500		
UC282TDTR-3	296-19031-1-ND	2.5V, Fast LDO Regulator	TO-263-5	6.20	4.96	4.19
UC282TDTR-3	296-19031-2-ND	2.5V, Fast LDO Regulator	TO-263-5	1968.50/500		
UC285T-1	296-15153-5-ND	1.5V, Fast LDO Regulator	TO-220-5	7.30	5.84	4.93
UC285T-2	296-15154-5-ND	2.1V, Fast LDO Regulator	TO-220-5	7.30	5.84	4.93
UC285T-3	296-15155-5-ND	2.5V, Fast LDO Regulator	TO-220-5	7.30	5.84	4.93
UC285T-ADJ	296-15156-5-ND	Adj., Fast LDO Regulator	TO-220-5	7.30	5.84	4.93
UC285TDKTTT-1	296-16015-1-ND	1.5V, Fast LDO Regulator	TO-263-5	7.30	5.84	—
UC285TDKTTT-1	296-16015-2-ND	1.5V, Fast LDO Regulator	TO-263-5	246.40/50		
UC285TDKTTT-2	296-16016-1-ND	2.1V, Fast LDO Regulator	TO-263-5	7.30	5.84	—
UC285TDKTTT-2	296-16016-2-ND	2.1V, Fast LDO Regulator	TO-263-5	246.40/50		
UC285TDKTTT-3	296-16017-1-ND	2.5V, Fast LDO Regulator	TO-263-5	7.30	5.84	—
UC285TDKTTT-3	296-16017-2-ND	2.5V, Fast LDO Regulator	TO-263-5	246.40/50		
UC285TDKTTT-ADJ	296-16018-1-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	7.30	5.84	—
UC285TDKTTT-ADJ	296-16018-2-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	246.40/50		
UC382T-1	296-2801-5-ND	1.5V, Fast Transient Response LDO Regulator	TO-220-5	5.40	4.32	3.65
UC382T-2	296-2802-5-ND	2.1V, Fast Transient Response LDO Regulator	TO-220-5	5.40	4.32	3.65
UC382T-3	296-2803-5-ND	2.5V, Fast Transient Response LDO Regulator	TO-220-5	5.40	4.32	3.65
UC382T-ADJ	296-2804-5-ND	Adjustable Fast Transient Response LDO Regulator	TO-220-5	5.40	4.32	3.65
UC382TDKTTT-1	296-16019-1-ND	1.5V Fast Transient Response LDO Regulator	TO-263-5	5.49	4.40	—
UC382TDKTTT-1	296-16019-2-ND	1.5V Fast Transient Response LDO Regulator	TO-263-5	182.25/50		
UC382TDKTTT-2	296-16020-1-ND	2.1V Fast Transient Response LDO Regulator	TO-263-5	5.40	4.32	—
UC382TDKTTT-2	296-16020-2-ND	2.1V Fast Transient Response LDO Regulator	TO-263-5	182.25/50		
UC382TDKTTT-3	296-16021-1-ND	2.5V Fast Transient Response LDO Regulator	TO-263-5	5.40	4.32	—

(Continued)

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
UC382TDKTTT-3	296-16021-2-ND	2.5V Fast Transient Response LDO Regulator	TO-263-5		182.25/50	
UC382TDKTTT-ADJ	296-16022-1-ND	1.2V/Adj., Fast Transient Response LDO Regulator	TO-263-5	5.40	4.32	—
UC382TDKTTT-ADJ	296-16022-2-ND	1.2V/Adj., Fast Transient Response LDO Regulator	TO-263-5		182.25/50	
UC382TDTR-2	296-19032-1-ND	2.1V Fast Transient Response LDO Regulator	TO-263-5	5.40	4.32	3.65
UC382TDTR-2	296-19032-2-ND	2.1V Fast Transient Response LDO Regulator	TO-263-5		1714.50/500	
UC382TDTR-3	296-19033-1-ND	2.5V Fast Transient Response LDO Regulator	TO-263-5	5.40	4.32	3.65
UC382TDTR-3	296-19033-2-ND	2.5V Fast Transient Response LDO Regulator	TO-263-5		1714.50/500	
UC385EVM-207	296-20626-ND	Evaluation Module for UC385	—	50.00	—	—
UC385T-1	296-2809-5-ND	1.5V, 5A LDO Regulator	TO-220-5	6.30	5.04	4.26
UC385T-2	296-2810-5-ND	2.1V, 5A LDO Regulator	TO-220-5	6.30	5.04	4.26
UC385T-3	296-2811-5-ND	2.5V, 5A LDO Regulator	TO-220-5	6.30	5.04	4.26
UC385T-ADJ	296-2812-5-ND	Adjustable, 5A LDO Regulator	TO-220-5	6.30	5.04	4.26
UC385TD-2	296-2814-5-ND	2.1V, 5A LDO Regulator	TO-263-5	5.70	4.56	3.85
UC385TDKTTT-1	296-16023-1-ND	1.5V, 5A LDO Regulator	TO-263-5	6.30	5.04	—
UC385TDKTTT-1	296-16023-2-ND	1.5V, 5A LDO Regulator	TO-263-5		212.65/50	
UC385TDKTTT-2	296-16024-1-ND	2.1V, 5A LDO Regulator	TO-263-5	6.30	5.04	—
UC385TDKTTT-2	296-16024-2-ND	2.1V, 5A LDO Regulator	TO-263-5		212.65/50	
UC385TDKTTT-3	296-16025-1-ND	2.5V, 5A LDO Regulator	TO-263-5	6.30	5.04	—
UC385TDKTTT-3	296-16025-2-ND	2.5V, 5A LDO Regulator	TO-263-5		212.65/50	
UC385TDKTTT-ADJ	296-16026-1-ND	1.2V/Adj., 5A LDO Regulator	TO-263-5	6.30	5.04	—
UC385TDKTTT-ADJ	296-16026-2-ND	1.2V/Adj., 5A LDO Regulator	TO-263-5		212.65/50	
UC385TDTR-3	296-19034-1-ND	2.5V, 5A LDO Regulator	TO-263-5	6.30	5.04	4.26
UC385TDTR-3	296-19034-2-ND	2.5V, 5A LDO Regulator	TO-263-5		2000.50/500	
UC2573D	296-2793-5-ND	Buck Pulse PWM Voltage Regulator	8-SOIC	2.70	2.16	1.68
UC2577TDKTTT-ADJ	296-16010-1-ND	Step-Up Voltage Regulator	TO-263-5	10.83	9.75	—
UC2577TDKTTT-ADJ	296-16010-2-ND	Step-Up Voltage Regulator	TO-263-5		432.25/50	
UC2578DP	296-19029-5-ND	Buck PWM Step-Down Voltage Regulator	16-SOIC	6.80	5.44	4.59
UC2832TDWEP	296-18185-5-ND	4.5V to 36V, Precision LDO Linear Controller	16-SOIC	8.70	6.96	5.88
UC2832TDWREP	296-22531-1-ND	4.5V to 36V, Precision LDO Linear Controller ***NEW!***	16-SOIC	8.70	6.96	5.88
UC2832TDWREP	296-22531-2-ND	4.5V to 36V, Precision LDO Linear Controller ***NEW!***	16-SOIC		10876.00/2,000	
UC2834DW	296-2797-5-ND	High-Efficiency Linear Regulator	16-SOIC	11.41	10.28	9.12
UC2835D	296-2798-5-ND	High-Efficiency Regulator Controller	8-SOIC	8.60	6.88	5.81
UC2836D	296-2799-5-ND	High-Efficiency Regulator Controller	8-SOIC	9.00	8.10	7.19
UC2854BMDWREP	296-21935-1-ND	Advanced High Power Factor Preregulator ***NEW!***	16-SOIC	5.62	4.50	3.80
UC2854BMDWREP	296-21935-2-ND	Advanced High Power Factor Preregulator ***NEW!***	16-SOIC		7026.00/2,000	
UC3832N	296-11273-5-ND	Adjustable, 100mA LDO Regulator	14-Dip	5.00	4.00	3.38
UC3833N	296-11274-5-ND	Adjustable, 100mA LDO Regulator	8-Dip	5.40	4.32	3.36
UC3834DW	296-2808-5-ND	High-Efficiency Linear Regulator	16-SOIC	9.41	8.48	7.52
UCC281DP-5	296-2817-5-ND	5V, 1A LDO Regulator	8-SOIC	4.95	3.96	3.08
UCC281DP-ADJ	296-2818-5-ND	Adjustable, 1A LDO Regulator	8-SOIC	4.95	3.96	3.08
UCC283T-3	296-11413-5-ND	3.3V, 3A LDO Regulator	TO-220	6.20	4.96	4.19
UCC283T-5	296-11414-5-ND	5V, 3A LDO Regulator	TO-220	6.20	4.96	4.19
UCC283T-ADJ	296-15163-5-ND	Adjustable, 3A LDO Regulator	TO-220	6.20	4.96	4.19
UCC283TDKTTT-ADJ	296-16027-1-ND	Adjustable, 3A LDO Regulator	TO-263-5	6.20	4.96	—
UCC283TDKTTT-ADJ	296-16027-2-ND	Adjustable, 3A LDO Regulator	TO-263-5		209.25/50	
UCC283TDKTTT-3	296-17787-1-ND	3.3V, 3A LDO Regulator	TO-263-5	6.20	4.96	—
UCC283TDKTTT-3	296-17787-2-ND	3.3V, 3A LDO Regulator	TO-263-5		209.25/50	
UCC283TDKTTT-5	296-19039-1-ND	5V, 3A LDO Regulator	TO-263	6.20	4.96	—
UCC283TDKTTT-5	296-19039-2-ND	5V, 3A LDO Regulator	TO-263		209.25/50	
UCC284DP-12	296-11415-5-ND	12V, 500mA Negative LDO Regulator	8-SOIC	5.60	4.48	3.78
UCC284DP-5	296-11416-5-ND	5V, 500mA Negative LDO Regulator	8-SOIC	5.60	4.48	3.78
UCC284DP-ADJ	296-11417-5-ND	Adj., 500mA Negative LDO Regulator	8-SOIC	5.60	4.48	3.78
UCC381DP-3	296-2819-5-ND	3.3V, 1A LDO Regulator	8-SOIC	4.28	3.42	2.66
UCC381DP-5	296-2820-5-ND	5V, 1A LDO Regulator	8-SOIC	4.28	3.42	2.66
UCC381DP-ADJ	296-2821-5-ND	Adjustable, 1A LDO Regulator	8-SOIC	4.28	3.42	2.66
UCC383T-3	296-8156-5-ND	3.3V, 3A LDO Linear Regulator	TO-220	5.40	4.32	3.65
UCC383T-5	296-8157-5-ND	5V, 3A LDO Linear Regulator	TO-220	5.40	4.32	3.65
UCC383T-ADJ	296-8158-5-ND	Adjustable, 3A LDO Linear Regulator	TO-220	5.40	4.32	3.65
UCC383TD-ADJ	296-8161-5-ND	Adjustable, 3A LDO Linear Regulator	TO-263-5	5.49	4.40	3.42
UCC383TDKTTT-3	296-16028-1-ND	3.3V, 3A LDO Linear Regulator	TO-263-5	5.40	4.86	—
UCC383TDKTTT-3	296-16028-2-ND	3.3V, 3A LDO Linear Regulator	TO-263-5		182.25/50	
UCC383TDKTTT-5	296-16029-1-ND	5V, 3A LDO Linear Regulator	TO-263-5	5.40	4.32	—
UCC383TDKTTT-5	296-16029-2-ND	5V, 3A LDO Linear Regulator	TO-263-5		182.25/50	
UCC383TDKTTT-ADJ	296-16030-1-ND	Adj., 3A LDO Linear Regulator	TO-263-5	5.40	4.32	—
UCC383TDKTTT-ADJ	296-16030-2-ND	Adj., 3A LDO Linear Regulator	TO-263-5		182.25/50	
UCC384DP-12	296-8162-5-ND	–12V, 0.5A LDO Linear Regulator	8-SOIC	4.39	3.51	2.73
UCC384DP-5	296-8163-5-ND	–5V, 0.5A LDO Linear Regulator	8-SOIC	4.39	3.51	2.73
UCC384DP-ADJ	296-8164-5-ND	Neg. Adj. 0.5A LDO Linear Regulator	8-SOIC	4.39	3.51	2.73
UC3833DWTR	296-13767-1-ND	Precision LDO Linear Controller	16-SOIC	5.40	4.32	3.36
UC3833DWTR	296-13767-2-ND	Precision LDO Linear Controller	16-SOIC		6120.00/2,000	

Voltage Regulators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
LFC789D25CDR	296-17214-1-ND	Dual Linear FET Controller	8-SOIC	.96	.72	.54
LFC789D25CDR	296-17214-2-ND	Dual Linear FET Controller	8-SOIC		780.00/2,500	
LFC789D25CPWR	296-17215-1-ND	Dual Linear FET Controller	8-TSSOP	.96	.72	.54
LFC789D25CPWR	296-17215-2-ND	Dual Linear FET Controller	8-TSSOP		638.00/2,000	
LM237KCSE3	296-21574-5-ND	Adj., 1.5A 3-Terminal Regulator	TO-220	1.25	1.00	.75
LM317DCY	296-23224-5-ND	3-Terminal Adj. Regulator ***NEW!***	SOT-223	.80	.60	.45
LM317DCYR	296-12602-1-ND	3-Terminal Adjustable Regulator	SOT-223	.62	.47	.35
LM317DCYR	296-12602-2-ND	3-Terminal Adjustable Regulator	SOT-223		500.00/2,500	
LM317KCS	296-13869-5-ND	3-Terminal Adjustable Regulator	TO-220	.84	.63	.48
LM317KCSE3	296-21576-5-ND	3-Terminal Adjustable Regulator	TO-220	.84	.63	.48
LM317KTTR	296-21390-1-ND	3-Terminal Adjustable Regulator	DDPAK	.80	.60	.45
LM317KTTR	296-21390-2-ND	3-Terminal Adjustable Regulator	DDPAK		140.00/500	
LM317LCDR	296-17220-1-ND	3-Terminal Adjustable Regulator	8-SOIC	.49	.40	.27
LM317LCDR	296-17220-2-ND	3-Terminal Adjustable Regulator	8-SOIC		320.00/2,500	
LM317LIDR	296-20678-1-ND	3-Terminal Adjustable Regulator	8-SOIC	.45	.36	.27
LM317LIDR	296-20678-2-ND	3-Terminal Adjustable Regulator	8-SOIC		305.00/2,500	
LM317LILPR	296-20679-1-ND	3-Terminal Adjustable Regulator	TO-92	.45	.36	.27
LM317LILPR	296-20679-2-ND	3-Terminal Adjustable Regulator	TO-92		252.00/2,000	
LM317LIPK	296-21742-1-ND	3-Terminal Adjustable Regulator	SOT-89	.72	.54	.41
LM317LIPK	296-21742-2-ND	3-Terminal Adjustable Regulator	SOT-89		239.00/1,000	
LM317LIPWR	296-20680-1-ND	3-Terminal Adjustable Regulator	8-TSSOP	.45	.36	.27
LM317LIPWR	296-20680-2-ND	3-Terminal Adjustable Regulator	8-TSSOP		252.00/2,000	
LM317MKTPR	296-9537-1-ND	3-Terminal Adjustable Regulator	2-PFM	.80	.60	.45
LM317MKTPR	296-9537-2-ND	3-Terminal Adjustable Regulator	2-PFM		780.00/3,000	
LM317MKTPRG3	296-18689-1-ND	3-Terminal Adjustable Regulator	2-PFM	.88	.66	.50
LM317MKVURG3	296-19495-1-ND	3-Terminal Adjustable Regulator	3-PFM	.88	.66	.50
LM317MKVURG3	296-19495-2-ND	3-Terminal Adjustable Regulator	3-PFM		715.00/2,500	
LM317MQDCYR	296-15185-1-ND	3-Terminal Adjustable Regulator	SOT-223	1.04	.78	.59
LM317MQDCYR	296-15185-2-ND	3-Terminal Adjustable Regulator	SOT-223		845.00/2,500	
LM317MQDCYRG4	296-23127-1-ND	3-Terminal Adj. Regulator ***NEW!***	SOT-223-4	.78	.65	.52
LM317MQDCYRG4	296-23127-2-ND	3-Terminal Adj. Regulator ***NEW!***	SOT-223-4		845.00/2,500	
LM337KC	296-9550-5-ND	Adj., 1.5A Negative Voltage Reg.	TO-220AB	.93	.78	.62
LM337KCSE3	296-21577-5-ND	Adj., 1.5A Negative Voltage Reg.	TO-220	.96	.72	.54
LM337KTPR	296-17847-1-ND	Adj., 1.5A Negative Voltage Regulator	2-PFM	.92	.69	.52
LM337KTTR	296-20746-1-ND	Adj., 1.5A Negative Voltage Reg.	TO-263-3	.78	.65	.52
LM337KTTR	296-20746-2-ND	Adj., 1.5A Negative Voltage Reg.	TO-263-3		346.00/1,000	
LM337KVURG3	296-21578-1-ND	Adjustable, 1.5A Negative Voltage Reg.	3-PFM	.88	.66	.50
LM337KVURG3	296-21578-2-ND	Adjustable, 1.5A Negative Voltage Reg.	3-PFM		715.00/2,500	
LM2575IN	296-20850-5-ND	1A Simple Step-Down Switching Voltage Regulator	16-Dip	1.50	1.20	.90
MC79L05ACDR	296-1016-1-ND	5V Fixed Negative Voltage Regulator	8-SOIC	.36	.29	.20
MC79L05ACDR	296-1016-2-ND	5V Fixed Negative Voltage Regulator	8-SOIC		235.00/2,500	
MC79L05ACLP	296-9603-5-ND	5V Fixed Negative Voltage Reg.	TO-226AA	.40	.32	.24
MC79L12ACD	296-9604-5-ND	12V Fixed Negative Voltage Regulator	8-SOP	.40	.32	.24
MC79L12ACLPR	296-9605-1-ND	12V Fixed Negative Voltage Regulator	TO-226	.40	.32	.24
MC79L12ACLPR	296-9605-2-ND	12V Fixed Negative Voltage Regulator	TO-226		224.00/2,000	
MC79L12CLP	296-9606-5-ND	12V Fixed Negative Voltage Reg.	TO-226AA	.55	.44	.33
MC79L15ACLP	296-9607-5-ND	15V Fixed Negative Voltage Reg.	TO-226AA	.50	.40	.30
TL-SCSI285KCSE3	296-21608-5-ND	2.85V Fixed Volt. Reg. for SCSI	TO-220	1.50	1.20	.90
TL-SCSI285PWR	296-10126-1-ND	2.85V Fixed Volt. Reg. for SCSI	20-TSSOP	1.50	1.20	.90
TL-SCSI285PWR	296-10126-2-ND	2.85V Fixed Volt. Reg. for SCSI	20-TSSOP		1560.00/2,000	
TL317CD	296-11823-5-ND	3-Terminal Adj. Regulator	8-SOIC	.40	.32	.24
TL317CLP	296-10167-5-ND	3-Terminal Adj. Regulator	TO-92	.40	.32	.24
TL317CLPR	296-15008-1-ND	3-Terminal Adj. Regulator	TO-92	.40	.32	.24
TL317CLPR	296-15008-2-ND	3-Terminal Adj. Regulator	TO-92		224.00/2,000	
TL317CPWR	296-13351-1-ND	3-Terminal Adj. Regulator	8-TSSOP	.46	.37	.26
TL317CPWR	296-13351-2-ND	3-Terminal Adj. Regulator	8-TSSOP		252.00/2,000	
TL430CLP	296-10181-5-ND	Adj. Precision Shunt Regulator	TO-92	.96	.80	.64
TL431ACD	296-1286-5-ND	Adj. Precision Shunt Regulator	8-SOIC	.43	.35	.24
TL431ACDBVR	296-15236-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.45	.36	.27
TL431ACDBVR	296-15236-2-ND	Adj. Precision Shunt Regulator	SOT-23-5		366.00/3,000	
TL431ACDBVT	296-15323-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.96	.72	.54
TL431ACDBVT	296-15323-2-ND	Adj. Precision Shunt Regulator	SOT-23-5		99.50/250	
TL431ACDBZR	296-17328-1-ND	Adj. Precision Shunt Regulator	SOT-23	.45	.36	.27
TL431ACDBZR	296-17328-2-ND	Adj. Precision Shunt Regulator	SOT-23		366.00/3,000	
TL431ACDCKR	296-17863-1-ND	Adj. Precision Shunt Regulator	SC70-6	.40	.32	.24
TL431ACDCKR	296-17863-2-ND	Adj. Precision Shunt Regulator	SC70-6		324.00/3,000	
TL431ACDR	296-1286-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.43	.35	.24
TL431ACDR	296-1286-2-ND	Adj. Precision Shunt Regulator	8-SOIC		280.00/2,500	
TL431ACLP	296-1287-ND	Adj. Precision Shunt Regulator	TO-92	.40	.32	.22
TL431ACLPR	296-1287-1-ND	Adj. Precision Shunt Regulator	TO-92	.45	.36	.27
TL431ACLPR	296-1287-2-ND	Adj. Precision Shunt Regulator	TO-92		252.00/2,000	
TL431ACP	296-10182-5-ND	Adj. Precision Shunt Regulator	8-Dip	.36	.29	.20
TL431ACPK	296-17037-1-ND	Adj. Precision Shunt Regulator	SOT-89	.55	.44	.33
TL431ACPK	296-17037-2-ND	Adj. Precision Shunt Regulator	SOT-89		154.00/1,000	
TL431ACPSR	296-13352-1-ND	Adj. Precision Shunt Regulator	8-SOP	.45	.36	.27
TL431ACPSR	296-13352-2-ND	Adj. Precision Shunt Regulator	8-SOP		252.00/2,000	
TL431ACPWR	296-13353-1-ND	Adj. Precision Shunt Regulator	8-TSSOP	.45	.36	.27
TL431ACPWR	296-13353-2-ND	Adj. Precision Shunt Regulator	8-TSSOP		252.00/2,000	
TL431AID	296-1288-5-ND	Adj. Precision Shunt Regulator	8-SOIC	.36	.29	.20
TL431AIDBVT	296-15324-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.75	.63	.50
TL431AIDBVT	296-15324-2-ND	Adj. Precision Shunt Regulator	SOT-23-5		93.75/250	
TL431AIDBZR	296-17329-1-ND	Adj. Precision Shunt Regulator	SOT-23	.50	.40	.30
TL431AIDBZR	296-17329-2-ND	Adj. Precision Shunt Regulator	SOT-23		405.00/3,000	
TL431AIDCKR	296-17864-1-ND	Adj. Precision Shunt Regulator	SC70-6	.40	.32	.24
TL431AIDCKR	296-17864-2-ND	Adj. Precision Shunt Regulator	SC70-6		324.00/3,000	
TL431AIDR	296-1288-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.36	.29	.20
TL431AIDR	296-1288-2-ND	Adj. Precision Shunt Regulator	8-SOIC		235.00/2,500	
TL431AILP	296-10183-5-ND	Adj. Precision Shunt Regulator	TO-226AA	.35	.28	.20
TL431AILPME3	296-23297-1-ND	Adj. Precision Shunt Reg. ***NEW!***	TO-92	.50	.40	.30
TL431AILPME3	296-23297-3-ND	Adj. Precision Shunt Reg. ***NEW!***	TO-92		280.00/2,000	
TL431AILPR	296-10183-1-ND	Adj. Precision Shunt Regulator	TO-226AA	.35	.28	.20
TL431AILPR	296-10183-2-ND	Adj. Precision Shunt Regulator	TO-226AA		168.00/2,000	
TL431AIP	296-10184-5-ND	Adj. Precision Shunt Regulator	8-Dip	.50	.40	.30
TL431AIPK	296-17038-1-ND	Adj. Precision Shunt Regulator	SOT-89	.48	.36	.27
TL431AIPK	296-17038-2-ND	Adj. Precision Shunt Regulator	SOT-89		160.00/1,000	
TL431AQDBVR	296-17330-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.60	.45	.34
TL431AQDBVR	296-17330-2-ND	Adj. Precision Shunt Regulator	SOT-23-5		585.00/3,000	
TL431AQDBZR	296-18864-1-ND	Adj. Precision Shunt Regulator	SOT-23	.60	.45	.34
TL431AQDBZR	296-18864-2-ND	Adj. Precision Shunt Regulator	SOT-23		585.00/3,000	
TL431AQDBZRQ1	296-21853-1-ND	Adj. Precision Shunt Regulator	SOT-23	.72	.54	.41
TL431AQDBZRQ1	296-21853-2-ND	Adj. Precision Shunt Regulator	SOT-23		702.00/3,000	
TL431AQDCKR	296-17865-1-ND	Adj. Precision Shunt Regulator	SC70-6	.68	.51	.39
TL431AQDCKR	296-17865-2-ND	Adj. Precision Shunt Regulator	SC70-6		663.00/3,000	
TL431AQPK	296-18236-1-ND	Adj. Precision Shunt Regulator	SOT-89	.76	.57	.43
TL431AQPK	296-18236-2-ND	Adj. Precision Shunt Regulator	SOT-89		253.00/1,000	
TL431BCDBVR	296-18865-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.52	.39	.30
TL431BCDBVR	296-18865-2-ND	Adj. Precision Shunt Regulator	SOT-23-5		507.00/3,000	
TL431BCDBZR	296-18866-1-ND	Adj. Precision Shunt Regulator	SOT-23	.52	.39	.30
TL431BCDBZR	296-18866-2-ND	Adj. Precision Shunt Regulator	SOT-23		507.00/3,000	
TL431BCDCKR	296-17866-1-ND	Adj. Precision Shunt Regulator	SC70-6	.52	.39	.30
TL431BCDCKR	296-17866-2-ND	Adj. Precision Shunt Regulator	SC70-6		507.00/3,000	
TL431BCDR	296-18867-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.52	.39	.30
TL431BCDR	296-18867-2-ND	Adj. Precision Shunt Regulator	8-SOIC		422.50/2,500	
TL431BCLPR	296-17374-1-ND	Adj. Precision Shunt Regulator	TO-92	.52	.39	.30
TL431BCLPR	296-17374-2-ND	Adj. Precision Shunt Regulator	TO-92		346.00/2,000	
TL431BCP	296-18868-5-ND	Adj. Precision Shunt Regulator	8-Dip	.52	.39	.30
TL431BCPK	296-18058-1-ND	Adj. Precision Shunt Regulator	SOT-89	.60	.45	.34
TL431BCPK	296-18058-2-ND	Adj. Precision Shunt Regulator	SOT-89		200.00/1,000	
TL431BCPSR	296-18869-1-ND	Adj. Precision Shunt Regulator	8-SOP	.52	.39	.30
TL431BCPSR	296-18869-2-ND	Adj. Precision Shunt Regulator	8-SOP		346.00/2,000	
TL431BCPWR	296-18870-1-ND	Adj. Precision Shunt Regulator	8-TSSOP	.52	.39	.30
TL431BCPWR	296-18870-2-ND	Adj. Precision Shunt Regulator	8-TSSOP		346.00/2,000	
TL431BIDBVR	296-18871-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.60	.45	.34
TL431BIDBVR	296-18871-2-ND	Adj. Precision Shunt Regulator	SOT-23-5		585.00/3,000	

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL431BIDBZR	296-18872-1-ND	Adj. Precision Shunt Regulator	SOT-23	.60	.45	.34
TL431BIDBZR	296-18872-2-ND	Adj. Precision Shunt Regulator	SOT-23	585.00/3,000		
TL431BIDR	296-18873-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.60	.45	.34
TL431BIDR	296-18873-2-ND	Adj. Precision Shunt Regulator	8-SOIC	487.50/2,500		
TL431BIP	296-18874-5-ND	Adj. Precision Shunt Regulator	8-Dip	.60	.45	.34
TL431BIPK	296-18060-1-ND	Adj. Precision Shunt Regulator	SOT-89	.68	.51	.39
TL431BIPK	296-18060-2-ND	Adj. Precision Shunt Regulator	SOT-89	226.00/1,000		
TL431BQDR	296-17886-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.84	.63	.48
TL431BQDR	296-17886-2-ND	Adj. Precision Shunt Regulator	8-SOIC	682.50/2,500		
TL431BQLPME3	296-19380-ND	Adj. Precision Shunt Regulator	TO-92	.84	.63	.48
TL431BQPK	296-18237-1-ND	Adj. Precision Shunt Regulator	SOT-89	.92	.69	.52
TL431BQPK	296-18237-2-ND	Adj. Precision Shunt Regulator	SOT-89	306.00/1,000		
TL431BIDCKR	296-17867-1-ND	Adj. Precision Shunt Regulator	SC70-6	.60	.45	.34
TL431BIDCKR	296-17867-2-ND	Adj. Precision Shunt Regulator	SC70-6	585.00/3,000		
TL431BILPR	296-17375-1-ND	Adj. Precision Shunt Regulator	TO-92	.60	.45	.34
TL431BILPR	296-17375-2-ND	Adj. Precision Shunt Regulator	TO-92	400.00/2,000		
TL431BQDBVR	296-17311-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.84	.63	.48
TL431BQDBVR	296-17311-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	819.00/3,000		
TL431BQDBZR	296-17623-1-ND	Adj. Precision Shunt Regulator	SOT-23	.84	.63	.48
TL431BQDBZR	296-17623-2-ND	Adj. Precision Shunt Regulator	SOT-23	819.00/3,000		
TL431BQDBZRQ1	296-20654-1-ND	Adj. Precision Shunt Regulator	SOT-23	.75	.63	.50
TL431BQDBZRQ1	296-20654-2-ND	Adj. Precision Shunt Regulator	SOT-23	975.00/3,000		
TL431BQDCKR	296-17868-1-ND	Adj. Precision Shunt Regulator	SC70-6	.84	.63	.48
TL431BQDCKR	296-17868-2-ND	Adj. Precision Shunt Regulator	SC70-6	819.00/3,000		
TL431BQLPR	296-17376-1-ND	Adj. Precision Shunt Regulator	TO-92	.84	.63	.48
TL431BQLPR	296-17376-2-ND	Adj. Precision Shunt Regulator	TO-92	558.00/2,000		
TL431CD	296-1289-5-ND	Adj. Precision Shunt Regulator	8-SOIC	.42	.34	.24
TL431CDBZR	296-17331-1-ND	Adj. Precision Shunt Regulator	SOT-23	.40	.32	.24
TL431CDBZR	296-17331-2-ND	Adj. Precision Shunt Regulator	SOT-23	324.00/3,000		
TL431CDR	296-1289-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.40	.32	.22
TL431CDR	296-1289-2-ND	Adj. Precision Shunt Regulator	8-SOIC	225.00/2,500		
TL431CDBVR	296-10185-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.36	.29	.20
TL431CDBVR	296-10185-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	282.00/3,000		
TL431CLP	296-1290-ND	Adj. Precision Shunt Regulator	TO-92	.40	.32	.22
TL431CLPR	296-1290-1-ND	Adj. Precision Shunt Regulator	TO-92	.40	.32	.22
TL431CLPR	296-1290-2-ND	Adj. Precision Shunt Regulator	TO-92	190.00/2,000		
TL431CP	296-1798-5-ND	Adj. Precision Shunt Regulator	8-Dip	.50	.40	.30
TL431CPK	296-1991-1-ND	Adj. Precision Shunt Regulator	SOT-89	.50	.41	.28
TL431CPWR	296-12497-1-ND	Adj. Precision Shunt Regulator	8-TSSOP	.40	.32	.24
TL431CPWR	296-12497-2-ND	Adj. Precision Shunt Regulator	8-TSSOP	224.00/2,000		
TL431IDBVR	296-10187-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.42	.34	.24
TL431IDBVR	296-10187-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	285.00/3,000		
TL431IDBZR	296-17332-1-ND	Adj. Precision Shunt Regulator	SOT-23	.45	.36	.27
TL431IDBZR	296-17332-2-ND	Adj. Precision Shunt Regulator	SOT-23	366.00/3,000		
TL431IDR	296-1291-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.36	.29	.20
TL431IDR	296-1291-2-ND	Adj. Precision Shunt Regulator	8-SOIC	235.00/2,500		
TL431ILP	296-1292-ND	Adj. Precision Shunt Regulator	TO-92	.42	.34	.24
TL431ILPR	296-1292-1-ND	Adj. Precision Shunt Regulator	TO-92	.42	.34	.24
TL431ILPR	296-1292-2-ND	Adj. Precision Shunt Regulator	TO-92	202.00/2,000		
TL431IP	296-10188-5-ND	Adj. Precision Shunt Regulator	8-Dip	.45	.36	.27
TL431IPK	296-10189-1-ND	Adj. Precision Shunt Regulator	SOT-89	.42	.34	.25
TL431IPK	296-10189-2-ND	Adj. Precision Shunt Regulator	SOT-89	116.00/1,000		
TL431QDBVR	296-17333-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.52	.39	.30
TL431QDBVR	296-17333-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	507.00/3,000		
TL431QDBZR	296-17334-1-ND	Adj. Precision Shunt Regulator	SOT-23	.52	.39	.30
TL431QDBZR	296-17334-2-ND	Adj. Precision Shunt Regulator	SOT-23	507.00/3,000		
TL431QDCKR	296-17869-1-ND	Adj. Precision Shunt Regulator	SC70-6	.56	.42	.32
TL431QDCKR	296-17869-2-ND	Adj. Precision Shunt Regulator	SC70-6	546.00/3,000		
TL431QDR	296-21096-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.52	.39	.30
TL431QDR	296-21096-2-ND	Adj. Precision Shunt Regulator	8-SOIC	422.50/2,500		
TL431QPK	296-18238-1-ND	Adj. Precision Shunt Regulator	SOT-89	.60	.45	.34
TL431QPK	296-18238-2-ND	Adj. Precision Shunt Regulator	SOT-89	200.00/1,000		
TL432ACDBVR	296-17335-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.40	.32	.24
TL432ACDBVR	296-17335-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	324.00/3,000		
TL432ACDBZR	296-17336-1-ND	Adj. Precision Shunt Regulator	SOT-23	.45	.36	.27
TL432ACDBZR	296-17336-2-ND	Adj. Precision Shunt Regulator	SOT-23	366.00/3,000		
TL432ACPK	296-18239-1-ND	Adj. Precision Shunt Regulator	SOT-89	.55	.44	.33
TL432ACPK	296-18239-2-ND	Adj. Precision Shunt Regulator	SOT-89	154.00/1,000		
TL432AIDBVR	296-17337-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.50	.40	.30
TL432AIDBVR	296-17337-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	405.00/3,000		
TL432AIDBZR	296-17338-1-ND	Adj. Precision Shunt Regulator	SOT-23	.55	.44	.33
TL432AIDBZR	296-17338-2-ND	Adj. Precision Shunt Regulator	SOT-23	447.00/3,000		
TL432AIPK	296-18240-1-ND	Adj. Precision Shunt Regulator	SOT-89	.48	.36	.27
TL432AIPK	296-18240-2-ND	Adj. Precision Shunt Regulator	SOT-89	160.00/1,000		
TL432AQDBVR	296-17339-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.68	.51	.39
TL432AQDBVR	296-17339-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	663.00/3,000		
TL432AQDBZR	296-17340-1-ND	Adj. Precision Shunt Regulator	SOT-23	.72	.54	.41
TL432AQDBZR	296-17340-2-ND	Adj. Precision Shunt Regulator	SOT-23	702.00/3,000		
TL432AQPK	296-18241-1-ND	Adj. Precision Shunt Regulator	SOT-89	.76	.57	.43
TL432AQPK	296-18241-2-ND	Adj. Precision Shunt Regulator	SOT-89	253.00/1,000		
TL432BCDBVR	296-18875-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.68	.51	.39
TL432BCDBVR	296-18875-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	663.00/3,000		
TL432BCDBZR	296-18876-1-ND	Adj. Precision Shunt Regulator	SOT-23	.72	.54	.41
TL432BCDBZR	296-18876-2-ND	Adj. Precision Shunt Regulator	SOT-23	702.00/3,000		
TL432BCPK	296-18242-1-ND	Adj. Precision Shunt Regulator	SOT-89	.60	.45	.34
TL432BCPK	296-18242-2-ND	Adj. Precision Shunt Regulator	SOT-89	200.00/1,000		
TL432BIDBVR	296-18877-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.76	.57	.43
TL432BIDBVR	296-18877-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	741.00/3,000		
TL432BIDBZR	296-18878-1-ND	Adj. Precision Shunt Regulator	SOT-23	.80	.60	.45
TL432BIDBZR	296-18878-2-ND	Adj. Precision Shunt Regulator	SOT-23	780.00/3,000		
TL432BIPK	296-18243-1-ND	Adj. Precision Shunt Regulator	SOT-89	.68	.51	.39
TL432BIPK	296-18243-2-ND	Adj. Precision Shunt Regulator	SOT-89	226.00/1,000		
TL432BQDBVR	296-18879-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.81	.68	.54
TL432BQDBVR	296-18879-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	1053.00/3,000		
TL432BQDBZR	296-18880-1-ND	Adj. Precision Shunt Regulator	SOT-23	.81	.68	.54
TL432BQDBZR	296-18880-2-ND	Adj. Precision Shunt Regulator	SOT-23	1053.00/3,000		
TL432BQPK	296-18244-1-ND	Adj. Precision Shunt Regulator	SOT-89	.92	.69	.52
TL432BQPK	296-18244-2-ND	Adj. Precision Shunt Regulator	SOT-89	306.00/1,000		
TL432CDBVR	296-17341-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.40	.32	.24
TL432CDBVR	296-17341-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	324.00/3,000		
TL432CDBZR	296-17342-1-ND	Adj. Precision Shunt Regulator	SOT-23	.45	.36	.27
TL432CDBZR	296-17342-2-ND	Adj. Precision Shunt Regulator	SOT-23	366.00/3,000		
TL432CPK	296-18245-1-ND	Adj. Precision Shunt Regulator	SOT-89	.50	.40	.30
TL432CPK	296-18245-2-ND	Adj. Precision Shunt Regulator	SOT-89	140.00/1,000		
TL432IDBVR	296-17343-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.45	.36	.27
TL432IDBVR	296-17343-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	366.00/3,000		
TL432IDBZR	296-17344-1-ND	Adj. Precision Shunt Regulator	SOT-23	.50	.40	.30
TL432IDBZR	296-17344-2-ND	Adj. Precision Shunt Regulator	SOT-23	405.00/3,000		
TL432IPK	296-18246-1-ND	Adj. Precision Shunt Regulator	SOT-89	.55	.44	.33
TL432IPK	296-18246-2-ND	Adj. Precision Shunt Regulator	SOT-89	154.00/1,000		
TL432QDBVR	296-17345-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.56	.42	.32
TL432QDBVR	296-17345-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	546.00/3,000		
TL432QDBZR	296-17346-1-ND	Adj. Precision Shunt Regulator	SOT-23	.60	.45	.34
TL432QDBZR	296-17346-2-ND	Adj. Precision Shunt Regulator	SOT-23	585.00/3,000		
TL432QPK	296-18247-1-ND	Adj. Precision Shunt Regulator	SOT-89	.60	.45	.34
TL432QPK	296-18247-2-ND	Adj. Precision Shunt Regulator	SOT-89	200.00/1,000		
TL497ACD	296-10195-5-ND	1.2V Switching Voltage Regulator	14-SOIC	1.44	1.20	.96
TL497ACDR	296-10195-1-ND	1.2V Switching Voltage Regulator	14-SOIC	1.44	1.20	.96
TL497ACDR	296-10195-2-ND	1.2V Switching Voltage Regulator	14-SOIC	1560.00/2,500		
TL497ACN	296-10196-5-ND	1.2V Switching Voltage Regulator	14-Dip	1.44	1.20	.96
TL497ACPWR	296-23298-1-ND	1.2V Switching Volt. Reg. ***NEW!***	14-TSSOP	1.44	1.20	.96
TL497ACPWR	296-23298-2-ND	1.2V Switching Volt. Reg. ***NEW!***	14-TSSOP	1276.00/2,000		
TL497AID	296-10197-5-ND	1.2V Switching Voltage Regulator	14-SOIC	1.33	1.06	.80
TL497AIDR	296-10197-1-ND	1.2V Switching Voltage Regulator	14-SOIC	1.33	1.06	.80
TL497AIDR	296-10197-2-ND	1.2V Switching Voltage Regulator	14-SOIC	1695.00/2,500		
TL497AIN	296-10198-5-ND	1.2V Switching Voltage Regulator	14-Dip	1.33	1.06	.80
TL780-05CKC	296-1803-5-ND	5.0V, 1.5A Fixed Positive Volt. Reg.	TO-220AB	.81	.68	.54
TL780-05CKTER	296-12396-1-ND	5.0V, 1.5A Fixed Positive Voltage Reg.	3-PFM	.90	.75	.60
TL780-05CKTER	296-12396-2-ND	5.0V, 1.5A Fixed Positive Voltage Reg.	3-PFM	798.00/2,000		
TL780-05CKTTR	296-20777-1-ND	5.0V, 1.5A Fixed Positive Voltage Reg.	TO-263	.96	.72	.54
TL780-05KCS	296-14324-5-ND	5.0V, 1.5A Fixed Positive Voltage Reg.	TO-220	.88	.66	.50
TL780-12CKC	296-10227-5-ND	12V, Fixed Positive Volt. Regulator	TO-220AB	.81	.68	.54
TL780-12KCS	296-14325-5-ND	12V, Fixed Positive Volt. Regulator	TO-220	.88	.66	.50
TL780-15CKC	296-10228-5-ND	15V, Fixed Positive Volt. Regulator	TO-220AB	.81	.68	.54
TL780-15KCS	296-14326-5-ND	15V, Fixed Positive Volt. Regulator	TO-220	.88	.66	.50
TL783CKCSE3	296-20687-5-ND	High Voltage Adj. Regulator	TO-220	1.60	1.28	.96
TL783CKTTR	296-20778-1-ND	High Voltage Adj. Regulator	TO-263	1.60	1.28	.96
TL783CKTTR	296-20778-2-ND	High Voltage Adj. Regulator	TO-263	432.00/500		
TL2218-285PWR	296-10163-1-ND	2.85V, SCSI Fixed Regulator	20-TSSOP	3.31	2.65	2.06
TL2218-285PWR	296-10163-2-ND	2.85V, SCSI Fixed Regulator	20-TSSOP	3748.00/2,000		
TL2575-ADJIKTTR	296-21830-1-ND	Adj., 1A Simple Step Down Switching Voltage Regulator	5-DDPAK	1.50	1.20	.90
TL2575-ADJIKTTR	296-21830-2-ND	Adj., 1A Simple Step Down Switching Voltage Regulator	5-DDPAK	405.00/500		
TL2575-ADJIKV	296-21831-5-ND	Adj., 1A Simple Step Down Switching Voltage Regulator	TO-220-5	1.75	1.40	1.05
TL2575-ADJIN	296-21832-5-ND	Adj., 1A Simple Step Down Switching Voltage Regulator	16-Dip	1.50	1.20	.90
TL2575-05IKTTR	296-21824-1-ND	5V, 1A Simple Step Down Switching Voltage Regulator	5-DDPAK	1.83	1.46	1.10
TL2575-05IKTTR	296-21824-2-ND	5V, 1A Simple Step Down Switching Voltage Regulator	5-DDPAK	493.00/500		
TL2575-05IKV	296-21825-5-ND	5V, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	1.75	1.40	1.05
TL2575-05IN	296-21094-5-ND	5V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	1.50	1.20	.90
TL2575-12IKTTR	296-21495-1-ND	12V, 1A Simple Step Down Switching Voltage Regulator	TO-263	1.83	1.46	1.10
TL2575-12IKTTR	296-21495-2-ND	12V, 1A Simple Step Down Switching Voltage Regulator	TO-263	493.00/500		
TL2575-12IKV	296-21496-5-ND	12V, 1A Simple Step Down Switching Voltage Regulator	TO-220	1.75	1.40	1.05
TL2575-12IN	296-21826-5-ND	12V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	1.50	1.20	.90
TL2575-15IKTTR	296-21497-1-ND	15V, 1A Simple Step Down Switching Voltage Regulator	TO-263	1.83	1.46	1.10
TL2575-15IKTTR	296-21497-2-ND	15V, 1A Simple Step Down Switching Voltage Regulator	TO-263	493.00/500		
TL2575-15IKV	296-21498-5-ND	15V, 1A Simple Step Down Switching Voltage Regulator	TO-220	1.75	1.40	1.05
TL2575-15IN	296-21827-5-ND	15V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	1.50	1.20	.90
TL2575-33IKTTR	296-21828-1-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	5-DDPAK	1.83	1.46	1.10
TL2575-33IKTTR	296-21828-2-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	5-DDPAK	493.00/500		
TL2575-33IKV	296-21829-5-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	1.75	1.40	1.05
TL2575-33IN	296-21095-5-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	1.50	1.20	.90
TL2575HV-ADJIKTTR	296-21841-1-ND	Adj., 1A Simple Step Down Switching Voltage Regulator	5-DDPAK	2.48	1.98	1.54
TL2575HV-ADJIKTTR	296-21841-2-ND	Adj., 1A Simple Step Down Switching Voltage Regulator	5-DDPAK	715.00/500		
TL2575HV-ADJIKV	296-21842-5-ND	Adj., 1A Simple Step Down Switching Voltage Regulator	TO-220-5	2.48	1.98	1.54
TL2575HV-ADJIN	296-21843-5-ND	Adj., 1A Simple Step Down Switching Voltage Regulator	16-Dip	2.48	1.98	1.54
TL2575HV-05IKTTR	296-21833-1-ND	5V, 1A Simple Step Down Switching Voltage Regulator	5-DDPAK	2.48	1.98	1.54
TL2575HV-05IKTTR	296-21833-2-ND	5V, 1A Simple Step Down Switching Voltage Regulator	5-DDPAK	715.00/500		
TL2575HV-05IKV	296-21834-5-ND	5V, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	2.48	1.98	1.54
TL2575HV-05IN	296-21835-5-ND	5V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	2.48	1.98	1.54
TL2575HV-12IKTTR	296-21499-1-ND	12V, 1A Simple Step Down Switching Voltage Regulator	TO-263	2.48	1.98	1.54
TL2575HV-12IKTTR	296-21499-2-ND	12V, 1A Simple Step Down Switching Voltage Regulator	TO-263	715.00/500		
TL2575HV-12IKV	296-21500-5-ND	12V, 1A Simple Step Down Switching Voltage Regulator	TO-220	2.48	1.98	1.54
TL2575HV-12IN	296-21836-5-ND	12V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	2.48	1.98	1.54
TL2575HV-15IKTTR	296-21501-1-ND	15V, 1A Simple Step Down Switching Voltage Regulator	TO-263	2.48	1.98	1.54

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL2575HV-15IKTTR	296-21501-2-ND	15V, 1A Simple Step Down Switching Voltage Regulator	TO-263	715.00/500		
TL2575HV-15IKV	296-21502-5-ND	15V, 1A Simple Step Down Switching Voltage Regulator	TO-220	2.48	1.98	1.54
TL2575HV-15IN	296-21837-5-ND	15V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	2.48	1.98	1.54
TL2575HV-33IKTTR	296-21838-1-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	5-DDPAK	2.48	1.98	1.54
TL2575HV-33IKTTR	296-21838-2-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	5-DDPAK	715.00/500		
TL2575HV-33IKV	296-21839-5-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	TO-220-5	2.48	1.98	1.54
TL2575HV-33IN	296-21840-5-ND	3.3V, 1A Simple Step Down Switching Voltage Regulator	16-Dip	2.48	1.98	1.54
TL3577-ADJIKTTR	296-21852-1-ND	100kHz Current Mode Simple Step Up/ Flyback Switching Regulator	5-DDPAK	5.98	4.79	4.04
TL3577-ADJIKTTR	296-21852-2-ND	100kHz Current Mode Simple Step Up/ Flyback Switching Regulator	5-DDPAK	1898.50/500		
TLV431ACDBVR	296-1348-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.47	.38	.29
TLV431ACDBVR	296-1348-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	381.00/3,000		
TLV431ACDBZR	296-18912-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.56	.42	.32
TLV431ACDBZR	296-18912-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	546.00/3,000		
TLV431ACLP	296-10723-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.56	.42	.32
TLV431AID	296-10724-5-ND	Low Voltage Adj. Shunt Regulator	8-SOIC	.64	.48	.36
TLV431AIDBVR	296-1984-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.53	.42	.32
TLV431AIDBVR	296-1984-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	426.00/3,000		
TLV431AIDBZR	296-18913-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.64	.48	.36
TLV431AIDBZR	296-18913-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	624.00/3,000		
TLV431AIDR	296-15032-1-ND	Low Voltage Adj. Shunt Regulator	8-SOIC	.64	.48	.36
TLV431AIDR	296-15032-2-ND	Low Voltage Adj. Shunt Regulator	8-SOIC	520.00/2,500		
TLV431AILP	296-10725-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.64	.48	.36
TLV431AQPK	296-22933-5-ND	Low Voltage Adj. Shunt Reg. ***NEW!***	SOT-89	.75	.63	.50
TLV431AQPKG3	296-19337-1-ND	Low Voltage Adj. Shunt Regulator	SOT-89	.75	.63	.50
TLV431AQPKG3	296-19337-2-ND	Low Voltage Adj. Shunt Regulator	SOT-89	333.00/1,000		
TLV431BCDBVR	296-17568-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.84	.63	.48
TLV431BCDBVR	296-17568-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	819.00/3,000		
TLV431BCDBZR	296-17569-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.84	.63	.48
TLV431BCDBZR	296-17569-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	819.00/3,000		
TLV431BCDCKR	296-17794-1-ND	Low Voltage Adj. Shunt Regulator	SC70-6	.88	.66	.50
TLV431BCDCKR	296-17794-2-ND	Low Voltage Adj. Shunt Regulator	SC70-6	858.00/3,000		
TLV431BCLPR	296-17809-1-ND	Low Voltage Adj. Shunt Regulator	TO-92	.84	.63	.48
TLV431BCLPR	296-17809-2-ND	Low Voltage Adj. Shunt Regulator	TO-92	558.00/2,000		
TLV431BCPK	296-22934-5-ND	Low Voltage Adj. Shunt Reg. ***NEW!***	SOT-89	.92	.69	.52
TLV431BCPKG3	296-19338-1-ND	Low Voltage Adj. Shunt Regulator	SOT-89	.92	.69	.52
TLV431BCPKG3	296-19338-2-ND	Low Voltage Adj. Shunt Regulator	SOT-89	306.00/1,000		
TLV431BIDBVR	296-17570-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.92	.69	.52
TLV431BIDBVR	296-17570-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	897.00/3,000		
TLV431BIDBZR	296-17571-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.92	.69	.52
TLV431BIDBZR	296-17571-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	897.00/3,000		
TLV431BIDCKR	296-17795-1-ND	Low Voltage Adj. Shunt Regulator	SC70-6	.96	.72	.54
TLV431BIDCKR	296-17795-2-ND	Low Voltage Adj. Shunt Regulator	SC70-6	936.00/3,000		
TLV431BILPR	296-17810-1-ND	Low Voltage Adj. Shunt Regulator	TO-92	.92	.69	.52
TLV431BILPR	296-17810-2-ND	Low Voltage Adj. Shunt Regulator	TO-92	612.00/2,000		
TLV431BIPK	296-22935-5-ND	Low Voltage Adj. Shunt Reg. ***NEW!***	SOT-89	.78	.65	.52
TLV431BIPKG3	296-19339-1-ND	Low Voltage Adj. Shunt Regulator	SOT-89	.78	.65	.52
TLV431BIPKG3	296-19339-2-ND	Low Voltage Adj. Shunt Regulator	SOT-89	346.00/1,000		
TLV431BQDBVR	296-17572-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.99	.83	.66
TLV431BQDBVR	296-17572-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	1287.00/3,000		
TLV431BQDBZR	296-17573-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.99	.83	.66
TLV431BQDBZR	296-17573-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	1287.00/3,000		
TLV431BQDCKR	296-17796-1-ND	Low Voltage Adj. Shunt Regulator	SC70-6	1.05	.88	.70
TLV431BQDCKR	296-17796-2-ND	Low Voltage Adj. Shunt Regulator	SC70-6	1365.00/3,000		
TLV431BQLPR	296-17811-1-ND	Low Voltage Adj. Shunt Regulator	TO-92	.99	.83	.66
TLV431BQLPR	296-17811-2-ND	Low Voltage Adj. Shunt Regulator	TO-92	878.00/2,000		
TLV431BQPK	296-22936-5-ND	Low Voltage Adj. Shunt Reg. ***NEW!***	SOT-89	1.05	.88	.70
TLV431BQPKG3	296-19340-1-ND	Low Voltage Adj. Shunt Regulator	SOT-89	1.05	.88	.70
TLV431BQPKG3	296-19340-2-ND	Low Voltage Adj. Shunt Regulator	SOT-89	466.00/1,000		
TLV431CDBVR	296-13616-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.52	.39	.30
TLV431CDBVR	296-13616-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	507.00/3,000		
TLV431CDBZR	296-18914-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.52	.39	.30
TLV431CDBZR	296-18914-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	507.00/3,000		
TLV431CLP	296-10727-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.52	.39	.30
TLV431IDBVR	296-13617-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.53	.40	.30
TLV431IDBVR	296-13617-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	516.00/3,000		
TLV431IDBZR	296-18915-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.60	.45	.34
TLV431IDBZR	296-18915-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	585.00/3,000		
TLV431ILP	296-10729-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.60	.45	.34
TLV431QPK	296-22937-5-ND	Low Voltage Adj. Shunt Reg. ***NEW!***	SOT-89	.92	.69	.52
TLV431QPKG3	296-19341-1-ND	Low Voltage Adj. Shunt Regulator	SOT-89	.92	.69	.52
TLV431QPKG3	296-19341-2-ND	Low Voltage Adj. Shunt Regulator	SOT-89	306.00/1,000		
TLVH431ACDBVR	296-17967-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23-5	.68	.51	.39
TLVH431ACDBVR	296-17967-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23-5	663.00/3,000		
TLVH431ACDBZR	296-17968-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23	.68	.51	.39
TLVH431ACDBZR	296-17968-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23	663.00/3,000		
TLVH431ACDCKR	296-18043-1-ND	Low Volt. Adj. Precision Shunt Reg.	SC70-6	.76	.57	.43
TLVH431ACDCKR	296-18043-2-ND	Low Volt. Adj. Precision Shunt Reg.	SC70-6	741.00/3,000		
TLVH431ACLPR	296-21129-1-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	.68	.51	.39
TLVH431ACLPR	296-21129-3-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	452.00/2,000		
TLVH431ACPK	296-18619-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.76	.57	.43
TLVH431ACPK	296-18619-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	253.00/1,000		
TLVH431ACPKG3	296-19342-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.76	.57	.43
TLVH431ACPKG3	296-19342-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	253.00/1,000		
TLVH431AIDBVR	296-17969-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23-5	.76	.57	.43
TLVH431AIDBVR	296-17969-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23-5	741.00/3,000		
TLVH431AIDBZR	296-17970-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23	.76	.57	.43
TLVH431AIDBZR	296-17970-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23	741.00/3,000		
TLVH431AIDCKR	296-18044-1-ND	Low Volt. Adj. Precision Shunt Reg.	SC70-6	.84	.63	.48
TLVH431AIDCKR	296-18044-2-ND	Low Volt. Adj. Precision Shunt Reg.	SC70-6	819.00/3,000		
TLVH431AILPR	296-21130-1-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	.76	.57	.43
TLVH431AILPR	296-21130-3-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	506.00/2,000		
TLVH431AIPK	296-18620-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.84	.63	.48
TLVH431AIPK	296-18620-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	279.00/1,000		
TLVH431AIPKG3	296-19343-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.84	.63	.48
TLVH431AIPKG3	296-19343-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	279.00/1,000		
TLVH431AQDBVR	296-17971-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23-5	.78	.65	.52
TLVH431AQDBVR	296-17971-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23-5	1014.00/3,000		
TLVH431AQDBZR	296-17972-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23	.78	.65	.52
TLVH431AQDBZR	296-17972-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23	1014.00/3,000		
TLVH431AQDCKR	296-18045-1-ND	Low Volt. Adj. Precision Shunt Reg.	SC70-6	.84	.70	.56
TLVH431AQDCKR	296-18045-2-ND	Low Volt. Adj. Precision Shunt Reg.	SC70-6	1092.00/3,000		
TLVH431AQLPR	296-21131-1-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	.78	.65	.52
TLVH431AQLPR	296-21131-3-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	692.00/2,000		
TLVH431AQPK	296-18621-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.84	.70	.56
TLVH431AQPK	296-18621-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	372.00/1,000		
TLVH431AQPKG3	296-19344-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.84	.70	.56
TLVH431AQPKG3	296-19344-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	372.00/1,000		
TLVH431BCDBVR	296-17684-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23-5	.92	.69	.52
TLVH431BCDBVR	296-17684-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23-5	897.00/3,000		
TLVH431BCDBZR	296-17685-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23	.92	.69	.52
TLVH431BCDBZR	296-17685-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-23	897.00/3,000		
TLVH431BCDCKR	296-17797-1-ND	Low Volt. Adj. Precision Shunt Reg.	SC70-6	.75	.63	.50
TLVH431BCDCKR	296-17797-2-ND	Low Volt. Adj. Precision Shunt Reg.	SC70-6	975.00/3,000		
TLVH431BCLPR	296-17812-1-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	.92	.69	.52
TLVH431BCLPR	296-17812-2-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	612.00/2,000		
TLVH431BCPK	296-18622-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.75	.63	.50
TLVH431BCPK	296-18622-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	333.00/1,000		
TLVH431BCPKG3	296-19345-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.75	.63	.50
TLVH431BCPKG3	296-19345-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	333.00/1,000		
TLVH431BIDBVR	296-17686-1-ND	Low Volt. Adj. Prec. Shunt Reg.*	SOT-23-5	.75	.63	.50
TLVH431BIDBVR	296-17686-2-ND	Low Volt. Adj. Prec. Shunt Reg.*	SOT-23-5	975.00/3,000		
TLVH431BIDBZR	296-17687-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	.75	.63	.50
TLVH431BIDBZR	296-17687-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	975.00/3,000		
TLVH431BIDCKR	296-17798-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SC70-6	.81	.68	.54
TLVH431BIDCKR	296-17798-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SC70-6	1053.00/3,000		
TLVH431BILPR	296-17813-1-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	.75	.63	.50
TLVH431BILPR	296-17813-2-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	666.00/2,000		
TLVH431BIPK	296-18623-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.81	.68	.54
TLVH431BIPK	296-18623-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	359.00/1,000		
TLVH431BIPKG3	296-19346-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.81	.68	.54
TLVH431BIPKG3	296-19346-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	359.00/1,000		
TLVH431BQDBVR	296-17688-1-ND	Low Volt. Adj. Prec. Shunt Reg.*	SOT-23-5	1.05	.88	.70
TLVH431BQDBVR	296-17688-2-ND	Low Volt. Adj. Prec. Shunt Reg.*	SOT-23-5	1365.00/3,000		
TLVH431BQDBZR	296-17689-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	1.05	.88	.70
TLVH431BQDBZR	296-17689-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	1365.00/3,000		
TLVH431BQDCKR	296-17799-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SC70-6	1.11	.93	.74
TLVH431BQDCKR	296-17799-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SC70-6	1443.00/3,000		
TLV431BQLP	296-23300-ND	Low Volt. Adj. Prec. Shunt Reg. ***NEW!***	TO-92	.99	.83	.66
TLVH431BQLPR	296-17814-1-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	1.05	.88	.70
TLVH431BQLPR	296-17814-2-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	932.00/2,000		
TLVH431BQPK	296-18624-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	1.11	.93	.74
TLVH431BQPK	296-18624-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	492.00/1,000		
TLVH431BQPKG3	296-19347-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	1.11	.93	.74
TLVH431BQPKG3	296-19347-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	492.00/1,000		
TLVH431CDBVR	296-18046-1-ND	Low Volt. Adj. Prec. Shunt Reg.*	SOT-23-5	.60	.45	.34
TLVH431CDBVR	296-18046-2-ND	Low Volt. Adj. Prec. Shunt Reg.*	SOT-23-5	585.00/3,000		
TLVH431CDBZR	296-17973-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	.60	.45	.34
TLVH431CDBZR	296-17973-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	585.00/3,000		
TLVH431CDCKR	296-18047-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SC70-6	.68	.51	.39
TLVH431CDCKR	296-18047-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SC70-6	663.00/3,000		
TLVH431CLPR	296-21132-1-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	.60	.45	.34
TLVH431CLPR	296-21132-3-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	400.00/2,000		
TLVH431CPK	296-18625-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.68	.51	.39
TLVH431CPK	296-18625-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	226.00/1,000		
TLVH431CPKG3	296-19348-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.68	.51	.39
TLVH431CPKG3	296-19348-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	226.00/1,000		
TLVH431IDBVR	296-18048-1-ND	Low Volt. Adj. Prec. Shunt Reg.*	SOT-23-5	.68	.51	.39
TLVH431IDBVR	296-18048-2-ND	Low Volt. Adj. Prec. Shunt Reg.*	SOT-23-5	663.00/3,000		
TLVH431IDBZR	296-17974-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	.68	.51	.39
TLVH431IDBZR	296-17974-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	663.00/3,000		
TLVH431IDCKR	296-18049-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SC70-6	.76	.57	.43
TLVH431IDCKR	296-18049-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SC70-6	741.00/3,000		
TLVH431ILPR	296-21133-1-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	.68	.51	.39
TLVH431ILPR	296-21133-3-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	452.00/2,000		
TLVH431IPK	296-18626-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.76	.57	.43
TLVH431IPK	296-18626-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	253.00/1,000		
TLVH431IPKG3	296-19349-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.76	.57	.43
TLVH431IPKG3	296-19349-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	253.00/1,000		
TLVH431QDBVR	296-18050-1-ND	Low Volt. Adj. Prec. Shunt Reg.*	SOT-23-5	.92	.69	.52
TLVH431QDBVR	296-18050-2-ND	Low Volt. Adj. Prec. Shunt Reg.*	SOT-23-5	897.00/3,000		
TLVH431QDBZR	296-17975-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	.92	.69	.52
TLVH431QDBZR	296-17975-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	897.00/3,000		
TLVH431QDCKR	296-18051-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SC70-6	.75	.63	.50
TLVH431QDCKR	296-18051-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SC70-6	975.00/3,000		
TLVH431QLPR	296-21134-1-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	.92	.69	.52
TLVH431QLPR	296-21134-3-ND	Low Volt. Adj. Precision Shunt Reg.	TO-92	612.00/2,000		
TLVH431QPK	296-18627-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.75	.63	.50
TLVH431QPK	296-18627-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	333.00/1,000		
TLVH431QPKG3	296-19350-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.75	.63	.50
TLVH431QPKG3	296-19350-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	333.00/1,000		
TLVH432ACDBZR	296-17976-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	.68	.51	.39
TLVH432ACDBZR	296-17976-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	663.00/3,000		
TLVH432ACPK	296-18628-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.76	.57	.43
TLVH432ACPK	296-18628-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	253.00/1,000		
TLVH432ACPKG3	296-19351-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.76	.57	.43
TLVH432ACPKG3	296-19351-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	253.00/1,000		
TLVH432AIDBZR	296-17977-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	.76	.57	.43
TLVH432AIDBZR	296-17977-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	741.00/3,000		
TLVH432AIPK	296-18629-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.84	.63	.48
TLVH432AIPK	296-18629-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	279.00/1,000		
TLVH432AIPKG3	296-19352-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.84	.63	.48
TLVH432AIPKG3	296-19352-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	279.00/1,000		
TLVH432AQDBZR	296-17978-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	.78	.65	.52
TLVH432AQDBZR	296-17978-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	1014.00/3,000		
TLVH432AQPK	296-18630-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.84	.70	.56
TLVH432AQPK	296-18630-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	372.00/1,000		
TLVH432AQPKG3	296-19353-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.84	.70	.56
TLVH432AQPKG3	296-19353-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	372.00/1,000		
TLVH432BCDBZR	296-17979-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	.92	.69	.52

***RoHS Compliant**

(Continued)

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
TLVH432BCDBZR	296-17979-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	897.00/3,000		
TLVH432BCPK	296-18631-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.75	.63	.50
TLVH432BCPK	296-18631-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	333.00/1,000		
TLVH432BCPKG3	296-19354-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.75	.63	.50
TLVH432BCPKG3	296-19354-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	333.00/1,000		
TLVH432BIDBZR	296-17980-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	.75	.63	.50
TLVH432BIDBZR	296-17980-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	975.00/3,000		
TLVH432BIPK	296-18632-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.81	.68	.54
TLVH432BIPK	296-18632-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	359.00/1,000		
TLVH432BIPKG3	296-19355-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.81	.68	.54
TLVH432BIPKG3	296-19355-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	359.00/1,000		
TLVH432BQDBZR	296-17981-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	1.05	.88	.70
TLVH432BQDBZR	296-17981-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	1365.00/3,000		
TLVH432BQPK	296-18633-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	1.11	.93	.74
TLVH432BQPK	296-18633-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	492.00/1,000		
TLVH432BQPKG3	296-19356-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	1.11	.93	.74
TLVH432BQPKG3	296-19356-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	492.00/1,000		
TLVH432CDBZR	296-17982-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	.60	.45	.34
TLVH432CDBZR	296-17982-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	585.00/3,000		
TLVH432CPK	296-18634-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.68	.51	.39
TLVH432CPK	296-18634-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	226.00/1,000		
TLVH432CPKG3	296-19357-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.68	.51	.39
TLVH432CPKG3	296-19357-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	226.00/1,000		
TLVH432IDBZR	296-17983-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	.68	.51	.39
TLVH432IDBZR	296-17983-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	663.00/3,000		
TLVH432IPK	296-18635-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.76	.57	.43
TLVH432IPK	296-18635-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	253.00/1,000		
TLVH432IPKG3	296-19358-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.76	.57	.43
TLVH432IPKG3	296-19358-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	253.00/1,000		
TLVH432QDBZR	296-17984-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	.92	.69	.52
TLVH432QDBZR	296-17984-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-23	897.00/3,000		
TLVH432QPK	296-18636-1-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	.75	.63	.50
TLVH432QPK	296-18636-2-ND	Low Volt. Adj. Precision Shunt Reg.	SOT-89	333.00/1,000		
TLVH432QPKG3	296-19359-1-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	.75	.63	.50
TLVH432QPKG3	296-19359-2-ND	Low Volt. Adj. Precision Shunt Reg.*	SOT-89	333.00/1,000		
UA78L02ACD	296-11116-5-ND	2.0V, 100mA Regulator*	8-SOP	.40	.32	.24
UA78L02ACLP	296-11117-5-ND	2.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L05ACD	296-1364-5-ND	5.0V, 100mA Regulator*	8-SOIC	.40	.33	.22
UA78L05ACDR	296-1364-1-ND	5.0V, 100mA Regulator*	8-SOIC	.40	.33	.22
UA78L05ACDR	296-1364-2-ND	5.0V, 100mA Regulator*	8-SOIC	260.00/2,500		
UA78L05ACLP	296-1365-ND	5.0V, 100mA Regulator	TO-92	.42	.33	.23
UA78L05ACLPR	296-1365-1-ND	5.0V, 100mA Regulator	TO-92	.42	.33	.23
UA78L05ACLPR	296-1365-2-ND	5.0V, 100mA Regulator	TO-92	198.00/2,000		
UA78L05ACPK	296-11118-1-ND	5.0V, 100mA Regulator	SOT-89	.42	.34	.25
UA78L05ACPK	296-11118-2-ND	5.0V, 100mA Regulator	SOT-89	116.00/1,000		
UA78L05AIDR	296-16903-1-ND	5.0V, 100mA Regulator*	8-SOIC	.52	.39	.30
UA78L05AIDR	296-16903-2-ND	5.0V, 100mA Regulator*	8-SOIC	422.50/2,500		
UA78L05AILP	296-11119-5-ND	5.0V, 100mA Regulator	TO-92	.52	.39	.30
UA78L05AIPK	296-17759-1-ND	5.0V, 100mA Regulator	SOT-89	.52	.39	.30
UA78L05AIPK	296-17759-2-ND	5.0V, 100mA Regulator	SOT-89	173.00/1,000		
UA78L05CD	296-11120-5-ND	5.0V, 100mA Regulator*	8-SOP	.46	.37	.26
UA78L05CLP	296-11121-5-ND	5.0V, 100mA Regulator	TO-226AA	.46	.37	.26
UA78L05CPK	296-13531-1-ND	5.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L05CPK	296-13531-2-ND	5.0V, 100mA Regulator	SOT-89	112.00/1,000		
UA78L06ACLP	296-11122-5-ND	6.0V, 100mA Regulator*	TO-226AA	.39	.32	.22
UA78L06ACPK	296-15739-1-ND	6.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L06ACPK	296-15739-2-ND	6.0V, 100mA Regulator	SOT-89	112.00/1,000		
UA78L08ACD	296-11123-5-ND	8.0V, 100mA Regulator*	8-SOP	.46	.37	.26
UA78L08ACLP	296-11124-5-ND	8.0V, 100mA Regulator	TO-226AA	.38	.30	.21
UA78L08ACLPR	296-15052-1-ND	8.0V, 100mA Regulator	TO-226	.40	.32	.24
UA78L08ACLPR	296-15052-2-ND	8.0V, 100mA Regulator	TO-226	224.00/2,000		
UA78L08ACPK	296-11125-1-ND	8.0V, 100mA Regulator	SOT-89	.52	.39	.30
UA78L08ACPK	296-11125-2-ND	8.0V, 100mA Regulator	SOT-89	173.00/1,000		
UA78L09ACD	296-11126-5-ND	9.0V, 100mA Regulator	8-SOP	.40	.32	.24
UA78L09ACDR	296-15053-1-ND	9.0V, 100mA Regulator	8-SOIC	.40	.32	.24
UA78L09ACDR	296-15053-2-ND	9.0V, 100mA Regulator	8-SOIC	270.00/2,500		
UA78L09ACLP	296-11127-5-ND	9.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L09ACPK	296-14331-1-ND	9.0V, 100mA Regulator	SOT-89	.45	.36	.27
UA78L09ACPK	296-14331-2-ND	9.0V, 100mA Regulator	SOT-89	126.00/1,000		
UA78L10ACD	296-11129-5-ND	10.0V, 100mA Regulator*	8-SOP	.40	.32	.24
UA78L10ACLP	296-1996-ND	10.0V, 100mA Regulator	TO-92	.40	.32	.24
UA78L10ACPK	296-15327-1-ND	10.0V, 100mA Regulator	SOT-89	.45	.36	.27
UA78L10ACPK	296-15327-2-ND	10.0V, 100mA Regulator	SOT-89	126.00/1,000		
UA78L12ACD	296-11130-5-ND	12.0V, 100mA Regulator*	8-SOP	.40	.32	.24
UA78L12ACDR	296-15054-1-ND	12.0V, 100mA Regulator*	8-SOIC	.40	.33	.22
UA78L12ACDR	296-15054-2-ND	12.0V, 100mA Regulator*	8-SOIC	260.00/2,500		
UA78L12ACLP	296-11131-5-ND	12.0V, 100mA Regulator	TO-226AA	.36	.29	.20
UA78L12ACPK	296-11132-1-ND	12.0V, 100mA Regulator	SOT-89	.45	.36	.27
UA78L12ACPK	296-11132-2-ND	12.0V, 100mA Regulator	SOT-89	126.00/1,000		
UA78L15ACLP	296-11133-ND	15.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L15ACPK	296-12002-1-ND	15.0V, 100mA Regulator	SOT-89	.45	.36	.27
UA78L15ACPK	296-12002-2-ND	15.0V, 100mA Regulator	SOT-89	126.00/1,000		
UA78M05CDCYR	296-12290-1-ND	5.0V, 500mA Regulator	SOT-223	.56	.42	.32
UA78M05CDCYR	296-12290-2-ND	5.0V, 500mA Regulator	SOT-223	455.00/2,500		
UA78M05CKC	296-11134-5-ND	5.0V, 500mA Regulator	TO-220	.75	.63	.50
UA78M05CKCS	296-14000-5-ND	5.0V, 500mA Regulator	TO-220	.72	.54	.41
UA78M05CKCSE3	296-21627-5-ND	5.0V, 500mA Regulator*	TO-220	.72	.54	.41
UA78M05CKTPR	296-11135-1-ND	5.0V, 500mA Regulator	2-PFM	.80	.60	.45
UA78M05CKTPR	296-11135-2-ND	5.0V, 500mA Regulator	2-PFM	780.00/3,000		
UA78M05CKVURG3	296-19755-1-ND	5.0V, 500mA Regulator*	3-PFM	.64	.48	.36
UA78M05CKVURG3	296-19755-2-ND	5.0V, 500mA Regulator*	3-PFM	520.00/2,500		
UA78M05IDCYR	296-17616-1-ND	5.0V, 500mA Regulator	SOT-223	.84	.63	.48
UA78M05IDCYR	296-17616-2-ND	5.0V, 500mA Regulator	SOT-223	682.50/2,500		
UA78M05IKCS	296-19025-5-ND	5.0V, 500mA Regulator	TO-220	.84	.63	.48
UA78M05IKCSE3	296-21628-5-ND	5.0V, 500mA Regulator*	TO-220	.84	.63	.48
UA78M05IKVURG3	296-21206-1-ND	5.0V, 500mA Regulator*	3-PFM	.84	.63	.48
UA78M05IKVURG3	296-21206-2-ND	5.0V, 500mA Regulator*	3-PFM	682.50/2,500		
UA78M05QDCYRG4Q1	296-22950-1-ND	5.0V, 500mA Regulator ***NEW!***	SOT-223-4	.78	.65	.52
UA78M05QDCYRG4Q1	296-22950-2-ND	5.0V, 500mA Regulator ***NEW!***	SOT-223-4	845.00/2,500		
UA78M06CKTPR	296-1366-1-ND	6.0V, 500mA Regulator	2-PFM	.80	.60	.45
UA78M06CKTPR	296-1366-2-ND	6.0V, 500mA Regulator	2-PFM	780.00/3,000		
UA78M06CKVURG3	296-19532-1-ND	6.0V, 500mA Regulator*	3-PFM	.64	.48	.36
UA78M06CKVURG3	296-19532-2-ND	6.0V, 500mA Regulator*	3-PFM	520.00/2,500		
UA78M08CDCYR	296-12612-1-ND	8.0V, 500mA Regulator*	SOT-223	.56	.42	.32
UA78M08CDCYR	296-12612-2-ND	8.0V, 500mA Regulator*	SOT-223	455.00/2,500		
UA78M08CKCS	296-21629-5-ND	8.0V, 500mA Regulator	TO-220	.72	.54	.41
UA78M08CKCSE3	296-21630-5-ND	8.0V, 500mA Regulator*	TO-220	.72	.54	.41
UA78M08CKTPR	296-11137-1-ND	8.0V, 500mA Regulator	2-PFM	.80	.60	.45
UA78M08CKTPR	296-11137-2-ND	8.0V, 500mA Regulator	2-PFM	780.00/3,000		
UA78M08CKVURG3	296-21207-1-ND	8.0V, 500mA Regulator*	3-PFM	.64	.48	.36
UA78M08CKVURG3	296-21207-2-ND	8.0V, 500mA Regulator*	3-PFM	520.00/2,500		
UA78M09CKTPR	296-11138-1-ND	9.0V, 500mA Fixed Positive Voltage Regulator	2-PFM	.80	.60	.45
UA78M09CKTPR	296-11138-2-ND	9.0V, 500mA Fixed Positive Voltage Regulator	2-PFM	780.00/3,000		
UA78M09CKVURG3	296-19533-1-ND	9.0V, 500mA Fixed Positive Voltage Regulator*	3-PFM	.64	.48	.36
UA78M09CKVURG3	296-19533-2-ND	9.0V, 500mA Fixed Positive Voltage Regulator*	3-PFM	520.00/2,500		
UA78M10CKTPR	296-11140-1-ND	10.0V, 500mA Fixed Positive Voltage Regulator	2-PFM	.78	.65	.52
UA78M10CKVURG3	296-19534-1-ND	10.0V, 500mA Fixed Positive Voltage Regulator	3-PFM	.64	.48	.36
UA78M10CKVURG3	296-19534-2-ND	10.0V, 500mA Fixed Positive Voltage Regulator	3-PFM	520.00/2,500		
UA78M12CKC	296-11141-5-ND	12.0V, 500mA Fixed Positive Voltage Regulator	TO-220	.75	.63	.50
UA78M12CKCS	296-21631-5-ND	12.0V, 500mA Fixed Positive Voltage Regulator*	TO-220	.72	.54	.41
UA78M12CKCSE3	296-21632-5-ND	12.0V, 500mA Fixed Positive Voltage Regulator*	TO-220	.72	.54	.41
UA78M12CKTPR	296-11142-1-ND	12.0V, 500mA Fixed Positive Voltage Regulator	2-PFM	.80	.60	.45
UA78M12CKTPR	296-11142-2-ND	12.0V, 500mA Fixed Positive Voltage Regulator	2-PFM	780.00/3,000		
UA78M12CKVURG3	296-19664-1-ND	12.0V, 500mA Fixed Positive Voltage Regulator*	3-PFM	.64	.48	.36
UA78M12CKVURG3	296-19664-2-ND	12.0V, 500mA Fixed Positive Voltage Regulator*	3-PFM	520.00/2,500		
UA78M33CDCYR	296-13424-1-ND	3.3V, 500mA Fixed Positive Voltage Regulator	SOT-223-4	.56	.42	.32
UA78M33CDCYR	296-13424-2-ND	3.3V, 500mA Fixed Positive Voltage Regulator	SOT-223-4	455.00/2,500		
UA78M33CKCS	296-21633-5-ND	3.3V, 500mA Fixed Positive Voltage Regulator*	TO-220	.76	.57	.43
UA78M33CKCSE3	296-21634-5-ND	3.3V, 500mA Fixed Positive Voltage Regulator*	TO-220	.76	.57	.43
UA78M33CKVURG3	296-21208-1-ND	3.3V, 500mA Fixed Positive Voltage Regulator*	3-PFM	.64	.48	.36
UA78M33CKVURG3	296-21208-2-ND	3.3V, 500mA Fixed Positive Voltage Regulator*	3-PFM	520.00/2,500		
UA78M33QDCYRG4Q1	296-22949-1-ND	3.3V, 500mA Fixed Positive Voltage Regulator ***NEW!***	SOT-223-4	.72	.54	.41
UA78M33QDCYRG4Q1	296-22949-2-ND	3.3V, 500mA Fixed Positive Voltage Regulator ***NEW!***	SOT-223-4	585.00/2,500		
UA79M05CKCS	296-14001-5-ND	5V, 500mA Negative Volt. Regulator	TO-220	.76	.57	.43
UA79M05CKCSE3	296-21635-5-ND	5V, 500mA Negative Volt. Regulator*	TO-220	.76	.57	.43
UA79M05CKTPR	296-11145-1-ND	5V, 500mA Negative Volt. Regulator	2-PFM	.80	.60	.45
UA79M05CKTPR	296-11145-2-ND	5V, 500mA Negative Volt. Regulator	2-PFM	780.00/3,000		
UA79M05CKVURG3	296-20735-1-ND	5V, 500mA Negative Volt. Regulator*	3-PFM	.64	.48	.36
UA79M05CKVURG3	296-20735-2-ND	5V, 500mA Negative Volt. Regulator*	3-PFM	520.00/2,500		
UA79M08CKTPR	296-11146-1-ND	8V Negative Voltage Regulator	2-PFM	.80	.60	.45
UA79M08CKVURG3	296-19678-1-ND	500mA Negative Voltage Regulator*	3-PFM	.64	.48	.36
UA79M08CKVURG3	296-19678-2-ND	500mA Negative Voltage Regulator*	3-PFM	520.00/2,500		
UA723CD	296-11102-5-ND	Adjustable, Prec. Voltage Regulator*	14-SOIC	.76	.57	.43
UA723CDR	296-11102-1-ND	Adjustable, Prec. Voltage Regulator*	14-SOIC	.76	.57	.43
UA723CDR	296-11102-2-ND	Adjustable, Prec. Voltage Regulator*	14-SOIC	617.50/2,500		
UA723CN	296-11104-5-ND	Adjustable, Prec. Voltage Regulator*	14-Dip	.88	.66	.50
UA7805CKC	296-1974-5-ND	5V, 1.5A Positive Voltage Regulator	TO-220	.81	.68	.54
UA7805CKCS	296-13996-5-ND	5V, 1.5A Positive Voltage Regulator	TO-220	.80	.60	.45
UA7805CKCSE3	296-21619-5-ND	5V, 1.5A Positive Voltage Regulator*	TO-220	.80	.60	.45
UA7805CKTER	296-11108-1-ND	5V, 1.5A Positive Voltage Regulator	3-PFM	.81	.68	.54
UA7805CKTER	296-11108-2-ND	5V, 1.5A Positive Voltage Regulator	3-PFM	718.00/2,000		
UA7805CKTTR	296-20796-1-ND	5V, 1.5A Positive Voltage Regulator*	TO-263	.88	.66	.50
UA7805CKTTR	296-20796-2-ND	5V, 1.5A Positive Voltage Regulator*	TO-263	293.00/1,000		
UA7808CKC	296-11109-5-ND	8V, 1.5A Positive Voltage Regulator	TO-220	.81	.68	.54
UA7808CKCS	296-13997-5-ND	8V, 1.5A Positive Voltage Regulator	TO-220	.80	.60	.45
UA7808CKCSE3	296-21620-5-ND	8V, 1.5A Positive Voltage Regulator	TO-220	.80	.60	.45
UA7808CKTTR	296-21933-1-ND	8V, 1.5A Positive Voltage Regulator	3-DDPAK	.88	.66	.50
UA7808CKTTR	296-21933-2-ND	8V, 1.5A Positive Voltage Regulator	3-DDPAK	154.00/500		
UA7810CKC	296-1975-5-ND	10V, 1.5A Positive Voltage Regulator	TO-220	.81	.68	.54
UA7810CKCS	296-21621-5-ND	10V, 1.5A Positive Voltage Regulator	TO-220	.84	.63	.48
UA7810CKCSE3	296-21622-5-ND	10V, 1.5A Positive Voltage Regulator*	TO-220	.84	.63	.48
UA7810CKTTR	296-20797-1-ND	10V, 1.5A Positive Voltage Regulator*	TO-263	.92	.69	.52
UA7810CKTTR	296-20797-2-ND	10V, 1.5A Positive Voltage Regulator*	TO-263	306.00/1,000		
UA7812CKC	296-11111-5-ND	12V, 1.5A Positive Voltage Regulator	TO-220	.81	.68	.54
UA7812CKCS	296-13998-5-ND	12V, 1.5A Positive Voltage Regulator	TO-220	.88	.66	.50
UA7812CKCSE3	296-21623-5-ND	12V, 1.5A Positive Voltage Regulator*	TO-220	.88	.66	.50
UA7812CKTER	296-11112-1-ND	12V, 1.5A Positive Voltage Regulator	3-PFM	.81	.68	.54
UA7812CKTER	296-11112-2-ND	12V, 1.5A Positive Voltage Regulator	3-PFM	718.00/2,000		
UA7812CKTTR	296-20798-1-ND	12V, 1.5A Positive Voltage Regulator*	TO-263	.88	.66	.50
UA7812CKTTR	296-20798-2-ND	12V, 1.5A Positive Voltage Regulator*	TO-263	293.00/1,000		
UA7815CKC	296-11113-5-ND	15V, 1.5A Positive Voltage Regulator	TO-220	.81	.68	.54
UA7815CKCS	296-13999-5-ND	15V, 1.5A Positive Voltage Regulator	TO-220	.84	.63	.48
UA7815CKCSE3	296-21624-5-ND	15V, 1.5A Positive Voltage Regulator*	TO-220	.84	.63	.48
UA7815CKTER	296-11114-1-ND	15V, 1.5A Positive Voltage Regulator	3-PFM	.81	.68	.54
UA7815CKTER	296-11114-2-ND	15V, 1.5A Positive Voltage Regulator	3-PFM	718.00/2,000		
UA7815CKTTR	296-21687-1-ND	15V, 1.5A Positive Voltage Reg.*	3-DDPAK	.88	.66	.50
UA7815CKTTR	296-21687-2-ND	15V, 1.5A Positive Voltage Reg.*	3-DDPAK	154.00/500		
UA7824CKC	296-11115-5-ND	24V, 1.5A Positive Voltage Regulator	TO-220	.81	.68	.54
UA7824CKCS	296-21625-5-ND	24V, 1.5A Positive Voltage Reg.*	TO-220	.84	.63	.48
UA7824CKCSE3	296-21626-5-ND	24V, 1.5A Positive Voltage Reg.*	TO-220	.84	.63	.48
UA7824CKTTR	296-21934-1-ND	24V, 1.5A Positive Voltage Reg.*	3-DDPAK	.88	.66	.50
UA7824CKTTR	296-21934-2-ND	24V, 1.5A Positive Voltage Reg.*	3-DDPAK	154.00/500		
UA7905CKCS	296-17077-ND	-5V, 1.5A Negative Voltage Regulator	TO-220	.84	.63	.48
UA7905CKTER	296-17834-1-ND	-5V, 1.5A Negative Voltage Regulator	3-PFM	.81	.68	.54

***RoHS Compliant**

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POWER SUPPLY PRODUCTS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UA7905CKTTR	296-20799-1-ND	-5V, 1.5A Negative Voltage Reg.*	TO-263	.92	.69	.52
UA7905CKTTR	296-20799-2-ND	-5V, 1.5A Negative Voltage Reg.*	TO-263	306.00/1,000		
UA7908CKCS	296-19027-5-ND	-8V Negative Voltage Regulator*	TO-220	.84	.63	.48
UC2577T-ADJ	296-11159-5-ND	Adj., Simple Step Up Volt. Reg.*	TO-220-5	10.83	9.75	8.65
UC29431D	296-11209-5-ND	Precision Adjustable Shunt Regulator	8-SOIC	7.60	6.08	5.13
UC39431D	296-11348-5-ND	Precision Adjustable Shunt Regulator	8-SOIC	5.51	4.41	3.43
UC39431N	296-11349-5-ND	Precision Adjustable Shunt Regulator	8-Dip	5.51	4.41	3.43
UCC561DP	296-12196-5-ND	Low Volt. Diff SCSI 27-Line Reg. Set	16-SOIC	2.57	2.06	1.60

PRECISION GROUND REFERENCE

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLE2425CD	296-1344-5-ND	2.5V Precision Ground Reference*	8-SOIC	1.43	1.14	.86
TLE2425CDR	296-1344-1-ND	2.5V Precision Ground Reference*	8-SOIC	1.43	1.14	.86
TLE2425CDR	296-1344-2-ND	2.5V Precision Ground Reference*	8-SOIC	1825.00/2,500		
TLE2425CLP	296-1993-ND	2.5V Precision Ground Reference*	TO-92	1.43	1.14	.86
TLE2425ID	296-6545-5-ND	2.5V Precision Ground Reference*	8-SOIC	1.43	1.14	.86
TLE2425ILP	296-6546-5-ND	2.5V Precision Ground Reference	TO-92	1.43	1.14	.86
TLE2426CD	296-6547-5-ND	1/2 Rail Virtual Ground Reference*	8-SOIC	1.30	1.04	.78
TLE2426CLP	296-1994-ND	1/2 Rail Virtual Ground Reference*	TO-92	1.30	1.04	.78
TLE2426CLPR	296-1994-1-ND	1/2 Rail Virtual Ground Reference*	TO-92	1.30	1.04	.78
TLE2426CLPR	296-1994-2-ND	1/2 Rail Virtual Ground Reference*	TO-92	1352.00/2,000		
TLE2426CP	296-6548-5-ND	1/2 Rail Virtual Ground Reference*	8-Dip	1.30	1.04	.78
TLE2426ID	296-1345-5-ND	1/2 Rail Virtual Ground Reference*	8-SOIC	1.30	1.04	.78
TLE2426IDR	296-1345-1-ND	1/2 Rail Virtual Ground Reference*	8-SOIC	1.30	1.04	.78
TLE2426IDR	296-1345-2-ND	1/2 Rail Virtual Ground Reference*	8-SOIC	1665.00/2,500		
TLE2426ILP	296-6549-5-ND	1/2 Rail Virtual Ground Reference	TO-92	1.30	1.04	.78
TLE2426IP	296-6550-5-ND	1/2 Rail Virtual Ground Reference*	8-Dip	1.30	1.04	.78
TLE2426MDREP	296-22422-1-ND	1/2 Rail Virtual Ground Reference ***NEW!***	8-SOIC	3.15	2.52	1.96
TLE2426MDREP	296-22422-2-ND	1/2 Rail Virtual Ground Reference ***NEW!***	8-SOIC	4410.00/2,500		

PROGRAMMABLE GATE ARRAYS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TIBPAL16L8-10CFN	296-10082-5-ND	HP Impact-X PAL Circuits	20-PLCC	3.94	3.15	2.45
TIBPAL16L8-10CN	296-10083-5-ND	HP Impact-X PAL Circuits	20-Dip	3.94	3.15	2.45
TIBPAL16L8-25CN	296-10087-5-ND	Low Power, HP Impact PAL Circuits	20-Dip	2.40	1.92	1.44
TIBPAL16R4-15CN	296-10090-5-ND	HP Impact PAL Circuits	20-Dip	2.32	1.86	1.45
TIBPAL16R6-15CN	296-10095-5-ND	HP Impact PAL Circuits	20-Dip	2.35	1.88	1.41
TIBPAL16R8-25CN	296-10098-5-ND	Low Power, HP Impact PAL Circuits	20-Dip	2.40	1.92	1.44
TIBPAL20L8-5CFN	296-10101-5-ND	HP Impact-X PAL Circuits	28-PLCC	16.95	15.82	14.69
TIBPAL20L8-5CNT	296-10102-5-ND	HP Impact-X PAL Circuits	24-Dip	16.95	15.82	14.69
TIBPAL20L8-15CFN	296-10100-5-ND	HP Impact PAL Circuits	28-PLCC	3.74	2.99	2.33
TIBPAL20R8-7CFN	296-10114-5-ND	HP Impact-X PAL Circuits	28-PLCC	9.74	7.80	6.58

REALTIME CLOCKS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
BQ48SH-28X6NSH	296-13634-5-ND	SNAPHAT™ w/Integrated Battery/Crystal*	—	7.40	5.92	5.00
BQ3285EP	296-2595-5-ND	RealTime Clock	24-Dip	4.73	3.78	2.94
BQ3285ES	296-2596-5-ND	RealTime Clock*	24-SOIC	4.73	3.78	2.94
BQ3285ESS	296-2597-5-ND	RealTime Clock*	24-SSOP	4.73	3.78	2.94
BQ3285LDSS	296-2599-5-ND	ACPI Compliant RealTime Clock*	24-SSOP	4.73	3.78	2.94
BQ3285LFSS-A1	296-6518-5-ND	ACPI Compliant RTC with (240x8) NVSRAM*	24-SOP	4.73	3.78	2.94
BQ3285P-SB2	296-2601-5-ND	RealTime Clock	24-Dip	4.73	3.78	2.94
BQ3285S-SB2	296-6519-5-ND	RTC with (114x8) NVSRAM*	24-SOP	4.73	3.78	2.94
BQ3287AMT-SB2	296-6520-5-ND	RTC Module with (114x8) NVSRAM	T-MOD	6.38	5.11	4.31
BQ3287EAMT	296-6521-5-ND	RTC Module with (242x8) NVSRAM/Alarm Wake-up	T-MOD	6.38	5.11	4.31
BQ3287EMT	296-6522-5-ND	RTC Module with (242x8) NVSRAM/Alarm Wake-up	T-MOD	6.38	5.11	4.31
BQ3287MT-I	296-6523-5-ND	RTC Module with (114x8) NVSRAM*	T-MOD	6.38	5.11	4.31
BQ3287MT-SB2	296-6524-5-ND	RTC Module with (114x8) NVSRAM	T-MOD	6.38	5.11	4.31
BQ4285EP	296-6525-5-ND	RTC with (114x8) NVSRAM Alarm Wake-up	24-Dip	5.29	4.23	3.29
BQ4285P-SB2	296-6527-5-ND	RTC with (114x8) NVSRAM/NVSRAM Control	24-Dip	5.29	4.23	3.29
BQ4285S-SB2	296-6528-5-ND	RTC with (114x8) NVSRAM/NVSRAM Control	24-SOP	5.29	4.23	3.29
BQ4287MT-SB2	296-6529-5-ND	RTC Module with (114x8) NVSRAM/NVSRAM Control	T-MOD	7.22	5.78	4.88
BQ4802LYDSH	296-15352-5-ND	Parallel 3.3V RTC with CPU Supervisor/ External NVSRAM Control	SNAPHAT▲	6.80	5.44	4.59
BQ4802YDSH	296-15353-5-ND	Parallel 5V RTC with CPU Supervisor/ External NVSRAM Control	SNAPHAT▲	6.80	5.44	4.59
BQ4802LYDW	296-19936-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control*	28-SOIC	5.00	4.00	3.38
BQ4802LYDWR	296-6530-1-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control*	28-SOIC	5.63	4.50	3.50
BQ4802LYDWR	296-6530-2-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control*	28-SOIC	3125.00/1,000		
BQ4802LYPW	296-12757-5-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control	28-TSSOP	5.00	4.00	3.38
BQ4802YDW	296-6531-5-ND	Parallel 5V RTC with CPU Supervisor/ External NVSRAM Control	28-SOIC	5.00	4.00	3.38
BQ4802YPW	296-12758-5-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control*	28-TSSOP	5.00	4.00	3.38
BQ4822YMA-70	296-6532-5-ND	RTC Module with (8Kx8) NVSRAM/Watchdog Timer*	A-MOD	13.29	11.97	10.62
BQ4830YMA-85	296-6533-5-ND	RTC Module with (32Kx8) NVSRAM	A-MOD	14.69	13.23	11.74
BQ4832YMA-85	296-6534-5-ND	RTC Module with (32Kx8) NVSRAM/Watchdog Timer	A-MOD	15.75	14.70	13.65
BQ4842YMA-85	296-6535-5-ND	RTC Module with (128Kx8) NVSRAM/Watchdog Timer	A-MOD	18.27	17.06	15.84
BQ4845P-A4	296-6536-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-Dip	5.00	4.00	3.38
BQ4845S-A4	296-6537-5-ND	RTC with NVSRAM Control/ Watchdog Timer*	28-SOIC	5.00	4.00	3.38
BQ4845S-A4N	296-6538-5-ND	RTC with NVSRAM Control/ Watchdog Timer*	28-SOIC	5.00	4.00	3.38
BQ4845YS-A4	296-6539-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-SOIC	5.00	4.00	3.38
BQ4845YS-A4N	296-6540-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-SOIC	5.00	4.00	3.38
BQ4847MT	296-6541-5-ND	RTC with NVSRAM Control/ Watchdog Timer	T-MOD	8.32	6.66	5.62
BQ4847YMT	296-6542-5-ND	RTC with NVSRAM Control/ Watchdog Timer	T-MOD	8.32	6.66	5.62
BQ4850YMA-85	296-6543-5-ND	RTC Module with (512Kx8) NVSRAM	A-MOD	35.63	33.25	30.88
BQ4852YMC-85	296-6544-5-ND	RTC Module with (512Kx8) NVSRAM/Watchdog Timer	C-MOD	36.54	34.11	31.67

▲SNAPHAT requires the BQ48SH-28x6 to complete the two piece module.

SIGNAL CONTROLLERS

Audio Processors / CODECs

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
AIC111EVM	296-18386-ND	Evaluation Module for AIC111	—	50.00	—	—
AIC111RHB	296-15335-ND	1.3V MicroPower DSP Voice Band Audio CODEC	32-QFN	8.30	6.64	5.61
AICDEVPLATEVM	296-18387-ND	Development Platform for DSP-CODEC	—	50.00	—	—
PCM2900E	296-13034-5-ND	Stereo Audio CODEC w/USB Interface	28-SSOP	8.30	6.64	5.61
PCM2901E	296-12985-5-ND	Stereo Audio CODEC w/USB Interface, Single Ended Analog I/O and S/PDIF	28-SSOP	8.30	6.64	5.61
PCM2902E	296-12986-5-ND	Stereo Audio CODEC w/USB Interface, Single Ended Analog I/O and S/PDIF	28-SSOP	9.00	7.20	6.08
PCM2903E	296-12987-5-ND	Stereo Audio CODEC w/USB Interface, Single Ended Analog I/O and S/PDIF	28-SSOP	9.00	7.20	6.08
PCM2904DB	296-13478-5-ND	Stereo Audio Codec w/USB Interface, Single Ended Analog I/O and S/PDIF	28-SSOP	8.30	6.64	5.61
PCM2906DB	296-13479-5-ND	Stereo Audio Codec w/USB Interface, Single Ended Analog I/O and S/PDIF	28-SSOP	9.00	7.20	6.08
PCM2912PJT	296-23130-ND	USB Stereo Audio CODEC ***NEW!***	32-TQFP	9.90	7.92	6.69
PCM3000E	PCM3000E-ND	Stereo Audio CODEC 18-Bit, 3-Wire Interface	28-SSOP	6.90	5.52	4.66
PCM3001E	PCM3001E-ND	Stereo Audio CODEC 18-Bit, Pin Programmable	28-SSOP	6.90	5.52	4.66
PCM3002E	PCM3002E-ND	20-Bit, Stereo CODEC, Software Control	24-SSOP	6.90	5.52	4.66
PCM3003E	PCM3003E-ND	20-Bit, Stereo CODEC, Hardware Control	24-SSOP	6.90	5.52	4.66
PCM3006T/2K	296-21639-1-ND	16-Bit, Single Ended Analog In/Out Stereo Audio CODEC	24-SSOP	6.90	5.52	4.66
PCM3006T/2K	296-21639-2-ND	16-Bit, Single Ended Analog In/Out Stereo Audio CODEC	24-SSOP	8626.00/2,000		
PCM3008T	PCM3008T-ND	16-Bit, Low Power/Voltage Stereo CODEC	16-TSSOP	6.20	4.96	4.19
PCM3010DB	296-14398-5-ND	24-Bit, Stereo Audio CODEC	24-SSOP	8.00	6.40	5.40
PCM3052ARTF	296-21239-1-ND	24-Bit, 96kHz Stereo Audio CODEC	32-QFN	5.40	4.32	3.36
PCM3052ARTF	296-21239-2-ND	24-Bit, 96kHz Stereo Audio CODEC	32-QFN	798.00/250		
PCM3060PW	296-21668-5-ND	24-Bit, 96/192kHz Async Stereo Audio CODEC	28-TSSOP	4.39	3.51	2.73
PCM3500E	PCM3500E-ND	Voice/Modem CODEC	24-SSOP	5.30	4.24	3.58
PCM3501E	PCM3501E-ND	Voice/Modem CODEC	24-SSOP	5.30	4.24	3.58
PCM3793ARHBR	296-21514-1-ND	16-Bit, Low Pwr Stereo Audio CODEC	32-QFN	9.00	7.20	6.08
PCM3793ARHBR	296-21514-2-ND	16-Bit, Low Pwr Stereo Audio CODEC	32-QFN	16740.00/3,000		
PCM3793RHBR	296-21240-1-ND	16-Bit, Low Pwr Stereo Audio CODEC	32-QFN	9.00	7.20	6.08
PCM3793RHBR	296-21240-2-ND	16-Bit, Low Pwr Stereo Audio CODEC	32-QFN	16740.00/3,000		
PCM3794ARHBR	296-21538-1-ND	16-Bit, Low Pwr Stereo Audio CODEC	32-QFN	8.50	6.80	5.74
PCM3794ARHBR	296-21538-2-ND	16-Bit, Low Pwr Stereo Audio CODEC	32-QFN	15810.00/3,000		
PCM3794ARHBT	296-21786-1-ND	16-Bit, Low Pwr Stereo Audio CODEC	32-QFN	9.40	7.52	6.35
PCM3794ARHBT	296-21786-2-ND	16-Bit, Low Pwr Stereo Audio CODEC	32-QFN	1527.50/250		
PCM3794RHBR	296-21241-1-ND	16-Bit, Low Pwr Stereo Audio CODEC	32-QFN	8.50	6.80	5.74
PCM3794RHBR	296-21241-2-ND	16-Bit, Low Pwr Stereo Audio CODEC	32-QFN	15810.00/3,000		
SRC4184IPAG	296-17309-ND	4-Channel Async. Sample Rate Converter	64-TQFP	12.50	11.25	9.98
SRC4190IDB	296-15337-5-ND	192kHz Stereo Async. Sample Rate Converter	28-SSOP	8.56	6.85	5.78
SRC4192EVM	296-18834-ND	Evaluation Module for SRC4192	—	203.00	—	—
SRC4192IDB	296-15234-5-ND	192kHz Stereo Async. Sample Rate Converter	28-SSOP	11.88	10.70	9.49
SRC4193IDB	296-15235-5-ND	192kHz Stereo Async. Sample Rate Converter	28-SSOP	13.46	12.12	10.75
SRC4194EVM	296-17284-ND	Evaluation Module for SRC4194	—	203.00	—	—
SRC4194IPAG	296-17310-ND	4-Channel Async. Sample Rate Converter	64-TQFP	18.75	17.50	16.25
SRC4382IPFBR	296-19757-1-ND	2-Channel, Async. Sample Rate Converter	48-TQFP	12.50	11.25	9.98
SRC4382IPFBR	296-19757-2-ND	2-Channel, Async. Sample Rate Converter	48-TQFP	9263.00/1,000		
SRC4382IPFBT	296-19783-1-ND	2-Channel, Async. Sample Rate Converter	48-TQFP	12.50	11.25	9.98
SRC4382IPFBT	296-19783-2-ND	2-Channel, Async. Sample Rate Converter	48-TQFP	2390.75/250		
SRC4392IPFBR	296-19740-1-ND	2-Channel, Async. Sample Rate Converter	48-TQFP	16.58	14.93	13.24
SRC4392IPFBR	296-19740-2-ND	2-Channel, Async. Sample Rate Converter	48-TQFP	12288.00/1,000		
TAS1020BPFB	296-13041-5-ND	Stereo USB Audio Interface	48-TQFP	6.08	4.87	4.11
TAS3001CPW	296-2208-5-ND	Stereo Digital Equalizer	28-TSSOP	4.12	3.30	2.57
TAS3002PFB	296-9977-ND	Digital Audio Processor with CODEC	48-TQFP	7.10	5.68	4.80
TAS3004PFB	296-9978-ND	Digital Audio Processor with CODEC	48-TQFP	7.70	6.16	5.20
TAS3103ADBT	296-19553-5-ND	48-Bit Digital Audio Processor	38-TSSOP	8.30	6.64	5.61
TAS3108DCP	296-20652-5-ND	8-Channel Prog. Audio DSP	38-TSSOP	8.50	7.65	6.79
TAS3108IADCP	296-20653-5-ND	8-Channel Prog. Audio DSP	38-TSSOP	9.58	8.63	7.65
TAS3204PAG	296-21712-ND	Audio DSP	64-TQFP	10.25	9.23	8.18
TAS3208PZP	296-21713-ND	Digital Audio Processor	100-HTQFP	10.83	9.75	8.65
TAS5001IPFB	296-12556-ND	Digital Audio PWM Processor	48-TQFP	5.30	4.24	3.58

***RoHS Compliant**

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SIGNAL CONTROLLERS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TAS5001PFB	296-12212-ND	Digital Audio PWM Processor	48-TQFP	5.40	4.32	3.36
TAS5010IPFB	296-12557-ND	Digital Audio PWM Processor	48-TQFP	6.70	5.36	4.53
TAS5010PFB	296-12213-ND	Digital Audio PWM Processor	48-TQFP	6.00	4.80	4.05
TAS5012IPFB	296-12558-ND	Digital Audio PWM Processor	48-TQFP	10.33	9.30	8.25
TAS5012PFB	296-12214-ND	Digital Audio PWM Processor	48-TQFP	9.25	8.33	7.39
TAS5026APAG	296-14401-ND	Digital Audio PWM Processor	64-TQFP	9.63	8.67	7.69
TAS5028PAG	296-17116-ND	8-Ch. Digital Audio PWM Processor	64-TQFP	9.80	7.84	6.62
TAS5036APFC	296-13856-ND	6-Ch. Digital Audio PWM Processor	80-TQFP	19.58	18.27	16.97
TAS5036BPFC	296-14976-ND	6-Ch. Digital Audio PWM Processor	80-TQFP	15.69	14.65	13.60
TAS5066PAG	296-16772-ND	24-Bit, 6-Channel Digital PWM	64-TQFP	9.63	8.67	7.69
TAS5076PFC	296-16643-ND	24-Bit, 6-Channel Digital PWM	80-TQFP	18.56	17.32	16.09
TAS5086DBT	296-17808-5-ND	Audio 6-Channel PWM Processor	38-TSSOP	3.60	2.88	2.24
TAS5504APAG	296-19509-ND	4-Ch. Digital Audio PWM Processor	64-TQFP	7.00	5.60	4.73
TAS5504PAG	296-18034-ND	4-Ch. Digital Audio PWM Processor	64-TQFP	7.00	5.60	4.73
TAS5508APAG	296-17475-ND	8-Ch. Digital Audio PWM Processor	64-TQFP	10.00	7.50	6.65
TAS5508BPAG	296-19417-ND	8-Ch. Digital Audio PWM Processor	64-TQFP	8.33	7.50	6.65
TAS5508PAG	296-17020-ND	8-Ch. Digital Audio PWM Processor	64-TQFP	10.55	9.50	8.42
TAS5518PAG	296-17249-ND	8-Ch. Digital Pulse Width Modulator	64-TQFP	13.24	11.93	10.58
TLC320AC01CFN	296-10267-5-ND	14-Bit AIC Audio CODEC	28-PLCC	8.60	6.88	5.81
TLC320AC01CPMR	296-1982-1-ND	14-Bit AIC Audio CODEC	64-LQFP	7.02	5.62	4.74
TLC320AD77CDB	296-2210-5-ND	24-Bit, Stereo CODEC	28-SSOP	6.30	5.04	4.26
TLC320AD545IPT	296-10276-ND	Single Channel CODEC with Hybrid Op Amps	48-LQFP	6.20	4.96	4.19
TLC320AD545PT	296-10277-ND	Single Channel CODEC with Hybrid Op Amps	48-LQFP	6.20	4.96	4.19
TLV320AIC10CPFB	296-2214-ND	3V to 5.5V, 16-Bit, 22Ksps DSP CODEC	48-TQFP	5.40	4.32	3.36
TLV320AIC10EVM	296-10701-ND	Evaluation Module for TLV320AIC10	—	101.00	—	—
TLV320AIC10IGQER	296-13374-1-ND	3V to 5.5V, 16-Bit, 22Ksps DSP CODEC	80-VFBGA	5.20	4.16	3.51
TLV320AIC10IGQER	296-13374-2-ND	3V to 5.5V, 16-Bit, 22Ksps DSP CODEC	80-VFBGA	8060.00/2,500		
TLV320AIC10IPFB	296-10702-ND	3V to 5.5V, 16-Bit, 22Ksps DSP CODEC	48-TQFP	5.20	4.16	3.51
TLV320AIC11CPFB	296-2215-ND	16-Bit, 22Ksps DSP CODEC	48-TQFP	5.40	4.32	3.36
TLV320AIC11IPFB	296-10703-ND	16-Bit, 22Ksps DSP CODEC	48-QFP	5.20	4.16	3.90
TLV320AIC12EVM	296-13566-ND	Evaluation Module for TLV320AIC12	—	62.78	—	—
TLV320AIC12IDBT	296-12398-5-ND	16-Bit, 26Ksps Mono CODEC	30-SM8	6.70	5.36	4.53
TLV320AIC12KEVM	296-21117-ND	Evaluation Module for TLV320AIC12K	—	50.00	—	—
TLV320AIC12KIDBT	296-19421-5-ND	16-Bit, 26Ksps Mono CODEC	30-SM8	3.83	3.06	2.38
TLV320AIC12KIRHBR	296-21521-1-ND	16-Bit, 26Ksps Mono CODEC	32-QFN	3.83	3.06	2.38
TLV320AIC12KIRHBR	296-21521-2-ND	16-Bit, 26Ksps Mono CODEC	32-QFN	6426.00/3,000		
TLV320AIC13IDBT	296-12504-5-ND	16-Bit, 26Ksps Mono CODEC	30-TSSOP	6.70	5.36	4.53
TLV320AIC14IDBT	296-12399-5-ND	16-Bit, 26Ksps Mono CODEC	30-SM8	6.20	4.96	4.19
TLV320AIC14KEVM	296-21118-ND	Evaluation Module for TLV320AIC14K	—	50.00	—	—
TLV320AIC14KIDBT	296-19635-5-ND	16-Bit, 26Ksps Mono CODEC	30-SM8	3.38	2.70	2.10
TLV320AIC15IDBT	296-12505-5-ND	16-Bit, 26Ksps Mono CODEC	30-TSSOP	6.20	4.96	4.19
TLV320AIC20KEVM	296-21119-ND	Evalutaion Module for TLV320AIC20K	—	50.00	—	—
TLV320AIC20KIPFB	296-17965-ND	16-Bit, 26Ksps, Low Power, Highly Integrated, Prog., Dual-Ch. CODEC	48-TQFP	5.40	4.32	3.65
TLV320AIC22CPT	296-13661-ND	Dual Voice Over Internet Protocol (VoIP) CODEC	48-LQFP	7.04	5.64	4.76
TLV320AIC23BGQE	296-13992-5-ND	24-Bit Stereo CODEC for Portable Audio	80-BGA	6.30	5.04	4.26
TLV320AIC23BIGQE	296-15030-ND	24-Bit Stereo CODEC for Portable Audio	80-BGA	7.00	5.60	4.73
TLV320AIC23BIPWR	296-15031-1-ND	Stereo Audio CODEC	28-TSSOP	6.70	5.36	4.53
TLV320AIC23BIPWR	296-15031-2-ND	Stereo Audio CODEC	28-TSSOP	8376.00/2,000		
TLV320AIC23BIZQE	296-15342-ND	24-Bit Stereo CODEC for Portable Audio	80-VFBGA	6.70	5.36	4.53
TLV320AIC23BPW	296-15635-5-ND	8-96kHz, Stereo Audio CODEC	28-TSSOP	6.00	4.80	4.05
TLV320AIC23BRHDR	296-15121-1-ND	Stereo Audio CODEC with Integrated Headphone Amp	28-QFN	6.00	4.80	4.05
TLV320AIC23BRHDR	296-15121-2-ND	Stereo Audio CODEC with Integrated Headphone Amp	28-QFN	11160.00/3,000		
TLV320AIC23GQE	296-12026-5-ND	24-Bit Stereo CODEC for Portable Audio	80-BGA	6.30	5.04	4.26
TLV320AIC24KEVM	296-21120-ND	Evaluation Module for TLV320AIC24K	—	50.00	—	—
TLV320AIC24IPFB	296-12690-ND	16-Bit, 26Ksps, Low Power, Highly Integrated, Prog., Dual-Ch. CODEC	48-TQFP	8.00	6.40	5.40
TLV320AIC24KIPFB	296-17966-ND	16-Bit, 26Ksps, Low Power, Highly Integrated, Prog., Dual-Ch. CODEC	48-TQFP	5.00	4.00	3.38
TLV320AIC25IPFB	296-12713-ND	16-Bit, 26Ksps Dual-Channel CODEC	48-TQFP	8.00	6.40	5.40
TLV320AIC26EVM	296-16986-ND	Audio CODEC Evaluation Module	—	101.00	—	—
TLV320AIC26IRHB	296-18911-ND	Low Power Stereo Audio CODEC	32-QFN	6.00	4.80	4.05
TLV320AIC28EVM	296-16857-ND	Audio CODEC Evaluation Module	—	101.00	—	—
TLV320AIC28IRGZ	296-16847-5-ND	Stereo Audio CODEC	48-QFN	7.90	6.32	5.34
TLV320AIC29EVM	296-19787-ND	Evaluation Module for TLV320AIC29	—	50.00	—	—
TLV320AIC29EVM-PDK	296-19788-ND	Evaluation Kit for TLV320AIC29	—	101.00	—	—
TLV320AIC29IRGZT	296-19439-1-ND	Stereo Audio CODEC	48-QFN	7.60	6.08	5.13
TLV320AIC29IRGZT	296-19439-2-ND	Stereo Audio CODEC	48-QFN	1235.00/250		
TLV320AIC31EVM	296-19475-ND	Evaluation Module for TLV320AIC31	—	50.00	—	—
TLV320AIC31EVM-PDK	296-19476-ND	Eval Kit/Demo for TLV320AIC31	—	152.00	—	—
TLV320AIC31IRHBT	296-19422-1-ND	Low Power Stereo Audio CODEC	32-QFN	7.60	6.08	5.13
TLV320AIC31IRHBT	296-19422-2-ND	Low Power Stereo Audio CODEC	32-QFN	1235.00/250		
TLV320AIC32EVM	296-21121-ND	Evaluation Module for TLV320AIC32	—	50.00	—	—
TLV320AIC32EVM-PDK	296-21122-ND	Evaluation Kit for TLV320AIC32	—	152.00	—	—
TLV320AIC32IRHBT	296-21123-1-ND	Low Power Stereo Audio CODEC	32-QFN	7.60	6.08	5.13
TLV320AIC32IRHBT	296-21123-2-ND	Low Power Stereo Audio CODEC	32-QFN	1235.00/250		
TLV320AIC33EVM	296-21124-ND	Evaluation Module for TLV320AIC33	—	50.00	—	—
TLV320AIC33EVM-PDK	296-21125-ND	Evaluation Kit for TLV320AIC33	—	152.00	—	—
TLV320AIC33IGQE	296-19440-ND	Low Power Stereo Audio CODEC	80-VFBGA	7.90	6.32	5.34
TLV320AIC33IRGZR	296-19789-1-ND	Low Power Stereo Audio CODEC	48-QFN	7.90	6.32	5.34
TLV320AIC33IRGZR	296-19789-2-ND	Low Power Stereo Audio CODEC	48-QFN	12345.00/2,500		
TLV320AIC33IZQER	296-19598-1-ND	Low Power Stereo Audio CODEC	80-BGA	7.90	6.32	5.34
TLV320AIC33IZQER	296-19598-2-ND	Low Power Stereo Audio CODEC	80-BGA	12245.00/2,500		
TLV320AIC34IZASR	296-22885-1-ND	4-Ch., LP Audio CODEC ***NEW!***	87-BGA	9.91	8.93	7.92
TLV320AIC34IZASR	296-22885-2-ND	4-Ch., LP Audio CODEC ***NEW!***	87-BGA	18072.50/2,500		
TLV320AIC1103GQER	296-12708-1-ND	2.7V PCM CODEC	80-BGA	5.60	4.48	3.78
TLV320AIC1103GQER	296-12708-2-ND	2.7V PCM CODEC	80-BGA	8680.00/2,500		
TLV320AIC1103PBS	296-13001-1-ND	2.7V PCM CODEC	32-TQFP	5.60	4.48	3.78
TLV320AIC1103PBS	296-13001-2-ND	2.7V PCM CODEC	32-TQFP	910.00/250		
TLV320AIC1103PBSR	296-12748-1-ND	2.7V PCM CODEC	32-TQFP	5.60	4.48	3.78
TLV320AIC1103PBSR	296-12748-2-ND	2.7V PCM CODEC	32-TQFP	3500.00/1,000		
TLV320AIC1103ZQER	296-21257-1-ND	2.7V PCM CODEC	80-BGA	5.60	4.48	3.78
TLV320AIC1103ZQER	296-21257-2-ND	2.7V PCM CODEC	80-BGA	8680.00/2,500		
TLV320AIC1106PW	296-15634-5-ND	PCM CODEC	20-TSSOP	5.40	4.32	3.65
TLV320AIC1106EVM	296-13564-ND	Evaluation Module for TLV320AIC1106	—	62.78	—	—
TLV320AIC1107PWR	296-12709-1-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	20-TSSOP	5.40	4.32	3.65
TLV320AIC1107PWR	296-12709-2-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	20-TSSOP	6750.00/2,000		
TLV320AIC1109PBS	296-13002-1-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	32-TQFP	5.60	4.48	3.78
TLV320AIC1109PBS	296-13002-2-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	32-TQFP	910.00/250		
TLV320AIC1110EVM	296-13565-ND	Evaluation Module for TLV320AIC1110	—	62.78	—	—
TLV320AIC1110GQER	296-12710-1-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	80-BGA	5.70	4.56	3.85
TLV320AIC1110GQER	296-12710-2-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	80-BGA	8835.00/2,500		
TLV320AIC1110PBS	296-13508-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	32-TQFP	5.70	4.56	3.85
TLV320AIC1110ZQER	296-21865-1-ND	PCM CODEC	80-BGA	6.60	5.28	4.46
TLV320AIC1110ZQER	296-21865-2-ND	PCM CODEC	80-BGA	10230.00/2,500		
TLV320AIC3101IRHBT	296-21969-1-ND	Low Power Stereo Audio CODEC	32-QFN	7.50	6.00	5.07
TLV320AIC3101IRHBT	296-21969-2-ND	Low Power Stereo Audio CODEC	32-QFN	1218.75/250		
TLV320AIC3104IRHBT	296-22847-1-ND	LP Stereo Audio CODEC ***NEW!***	32-QFN	7.20	5.76	4.86
TLV320AIC3104IRHBT	296-22847-2-ND	LP Stereo Audio CODEC ***NEW!***	32-QFN	1170.00/250		
TLV320AIC3105IRHBT	296-22023-1-ND	Low Power Stereo Audio CODEC	32-QFN	7.20	5.76	4.86
TLV320AIC3105IRHBT	296-22023-2-ND	Low Power Stereo Audio CODEC	32-QFN	1170.00/250		
TLV320AIC3106IRGZR	296-22705-1-ND	LP Stereo Audio CODEC ***NEW!***	48-QFN	7.70	6.16	5.20
TLV320AIC3106IRGZR	296-22705-2-ND	LP Stereo Audio CODEC ***NEW!***	48-QFN	11935.00/2,500		
TLV320AIC3106IZQER	296-21655-1-ND	Low Power Stereo Audio CODEC	80-BGA	7.70	6.16	5.20
TLV320AIC3106IZQER	296-21655-2-ND	Low Power Stereo Audio CODEC	80-BGA	11935.00/2,500		
TLV320DAC23GQE	296-12027-5-ND	8kHz to 96kHz Stereo Audio DAC	80-VFBGA	4.84	3.87	3.01
TLV320DAC23PW	296-11658-5-ND	8kHz to 96kHz Stereo Audio DAC	28-TSSOP	4.50	3.60	2.80
TLV320DAC23RHDR	296-15636-1-ND	8kHz to 96kHz Stereo Audio DAC	28-PQFP	4.50	3.60	2.80
TLV320DAC23RHDR	296-15636-2-ND	8kHz to 96kHz Stereo Audio DAC	28-PQFP	7800.00/3,000		
TLV320DAC26EVM	296-17267-ND	Evaluation Module for TLV320DAC26	—	101.00	—	—
TLV320DAC26IRHB	296-17402-ND	Low Power Stereo Audio DAC	32-QFN	5.90	4.72	3.99
TLV320DAC32IRHBT	296-21317-1-ND	Low Power Stereo Audio DAC	32-QFN	6.10	4.88	4.12
TLV320DAC32IRHBT	296-21317-2-ND	Low Power Stereo Audio DAC	32-QFN	991.25/250		
TSC2111IRGZT	296-20663-1-ND	Audio CODEC	48-QFN	9.08	8.18	7.25
TSC2111IRGZT	296-20663-2-ND	Audio CODEC	48-QFN	1737.25/250		
TWL1103GQER	296-11095-1-ND	Voice Band Audio Processor	80-VFBGA	6.50	5.20	4.39
TWL1103GQER	296-11095-2-ND	Voice Band Audio Processor	80-VFBGA	10075.00/2,500		
TWL1103TPBSQ1	296-12962-1-ND	Voice Band Audio Processor	32-TQFP	6.72	5.38	4.54
TWL1103TPBSQ1	296-12962-2-ND	Voice Band Audio Processor	32-TQFP	1092.00/250		
TWL1103TPBSRQ1	296-16969-1-ND	Voice Band Audio Processor	32-TQFP	6.76	5.41	4.57
TWL1103TPBSRQ1	296-16969-2-ND	Voice Band Audio Processor	32-TQFP	4225.00/1,000		

TEMPERATURE SENSORS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AMC6821SDBQ	296-22738-1-ND	Intelligent Temp. Monitor and PWM Fan Controller ***NEW!***	16-QSOP	4.39	3.51	—
AMC6821SDBQ	296-22738-2-ND	Intelligent Temp. Monitor and PWM Fan Controller ***NEW!***	16-QSOP	204.75/75		
SENSOREMULATOREVM	296-20990-ND	Emulator Sensor	—	203.00	—	—
TMP75AIDGKT	296-18637-1-ND	Digital Temperature Sensor with Two-Wire Interface	8-MSOP	2.00	1.60	1.20
TMP75AIDGKT	296-18637-2-ND	Digital Temperature Sensor with Two-Wire Interface	8-MSOP	280.00/250		
TMP75AIDR	296-17838-1-ND	Digital Temperature Sensor with Two-Wire Interface	8-SOIC	1.75	1.40	1.05
TMP75AIDR	296-17838-2-ND	Digital Temperature Sensor with Two-Wire Interface	8-SOIC	2240.00/2,500		
TMP100EVM	296-21135-ND	Evaluation Module for TMP100	—	50.00	—	—
TMP100MDBVREP	296-19524-1-ND	Digital Temperature Sensor	SOT-23-6	4.88	3.91	3.04
TMP100MDBVREP	296-19524-2-ND	Digital Temperature Sensor	SOT-23-6	8202.00/3,000		
TMP100NA/250	296-12749-1-ND	Digital Temperature Sensor	SOT-23-6	2.13	1.70	1.28
TMP100NA/250	296-12749-2-ND	Digital Temperature Sensor	SOT-23-6	297.50/250		
TMP101NA/250	296-12750-1-ND	Digital Temperature Sensor w/Alert	SOT-23-6	2.25	1.80	1.35
TMP101NA/250	296-12750-2-ND	Digital Temperature Sensor w/Alert	SOT-23-6	315.00/250		
TMP102AIDRLT	296-22055-1-ND	LP Digital Temp. Sensor ***NEW!***	SOT-563	2.25	1.80	1.35
TMP102AIDRLT	296-22055-2-ND	LP Digital Temp. Sensor ***NEW!***	SOT-563	315.00/250		
TMP105YZCT	296-19636-1-ND	Digital Temperature Sensor, 2-Wire Interface	6-DSBGA	2.38	1.90	1.43
TMP105YZCT	296-19636-2-ND	Digital Temperature Sensor, 2-Wire Interface	6-DSBGA	332.50/250		
TMP106YZCT	296-19637-1-ND	Digital Temperature Sensor, 2-Wire Interface	6-DSBGA	2.38	1.90	1.43
TMP106YZCT	296-19637-2-ND	Digital Temperature Sensor, 2-Wire Interface	6-DSBGA	332.50/250		
TMP121AIDBVT	296-15177-1-ND	Digital Temperature Sensor	SOT-23-6	2.48	1.98	1.49
TMP121AIDBVT	296-15177-2-ND	Digital Temperature Sensor	SOT-23-6	346.50/250		
TMP121AQDBVREP	296-22434-1-ND	Digital Temp. Sensor ***NEW!***	SOT-23-6	2.75	2.20	1.71
TMP121AQDBVREP	296-22434-2-ND	Digital Temp. Sensor ***NEW!***	SOT-23-6	4611.00/3,000		
TMP122AIDBVT	296-15178-1-ND	Prog. Digital Temperature Sensor	SOT-23-6	2.48	1.98	1.54
TMP122AIDBVT	296-15178-2-ND	Prog. Digital Temperature Sensor	SOT-23-6	365.75/250		
TMP122EVM	296-21136-ND	Evaluation Module for TMP122	—	50.00	—	—
TMP123AIDBVT	296-15832-1-ND	Digital Temperature Sensor with SPI	SOT-23-6	2.48	1.98	1.49
TMP123AIDBVT	296-15832-2-ND	Digital Temperature Sensor with SPI	SOT-23-6	346.50/250		
TMP124AID	296-16977-ND	Digital Temperature Sensor with SPI	8-SOIC	1.75	1.40	1.05
TMP125AIDBVT	296-17690-1-ND	Digital Temperature Sensor w/SPI	SOT-23-6	2.25	1.80	1.35
TMP125AIDBVT	296-17690-2-ND	Digital Temperature Sensor w/SPI	SOT-23-6	315.00/250		
TMP141AIDBVT	296-17922-1-ND	Digital Out Temperature Sensor	SOT-23-6	1.88	1.50	1.13
TMP141AIDBVT	296-17922-2-ND	Digital Out Temperature Sensor	SOT-23-6	262.50/250		
TMP141AIDGKT	296-17923-1-ND	Digital Out Temperature Sensor	8-MSOP	1.88	1.50	1.13
TMP141AIDGKT	296-17923-2-ND	Digital Out Temperature Sensor	8-MSOP	262.50/250		
TMP175AIDGKT	296-19882-1-ND	Digital Temperature Sensor, 2-Wire Interface	8-MSOP	2.38	1.90	1.43
TMP175AIDGKT	296-19882-2-ND	Digital Temperature Sensor, 2-Wire Interface	8-MSOP	332.50/250		
TMP175AIDR	296-17837-1-ND	Digital Temperature Sensor with Two-Wire Interface	8-SOIC	2.13	1.70	1.28

(Continued)

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TEMPERATURE SENSORS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TMP175AIDR	296-17837-2-ND	Digital Temperature Sensor with Two-Wire Interface	8-SOIC	2720.00/2,500		
TMP275AID	296-21416-5-ND	0.5°C Digital Out Temperature Sensor	8-SOIC	2.81	2.25	1.75
TMP275AIDGKT	296-19883-1-ND	0.5°C Digital Out Temperature Sensor	8-MSOP	3.15	2.52	1.96
TMP275AIDGKT	296-19883-2-ND	0.5°C Digital Out Temperature Sensor	8-MSOP	465.50/250		
TMP300AIDCKT	296-22658-1-ND	1.8V, Resistor Programmable Temp. Switch ***NEW!***	SC70-6	2.25	1.80	1.35
TMP300AIDCKT	296-22658-2-ND	1.8V, Resistor Programmable Temp. Switch ***NEW!***	SC70-6	315.00/250		
TMP400AIDBQT	296-22975-1-ND	±1°C Remote/Local Temp. Sensor ***NEW!***	16-QSOP	3.71	2.97	2.31
TMP400AIDBQT	296-22975-2-ND	±1°C Remote/Local Temp. Sensor ***NEW!***	16-QSOP	548.75/250		
TMP401AIDGKR	296-20710-1-ND	Remote Digital Temperature Sensor	8-MSOP	3.38	2.70	2.10
TMP401AIDGKR	296-20710-2-ND	Remote Digital Temperature Sensor	8-MSOP	4725.00/2,500		
TMP411AD	296-22886-5-ND	±1°C Remote/Local Temp. Sensor ***NEW!***	8-SOIC	3.94	3.15	2.45
TMP411ADGKR	296-21417-1-ND	±1°C Remote/Local Temp. Sensor	8-MSOP	3.94	3.15	2.45
TMP411ADGKR	296-21417-2-ND	±1°C Remote/Local Temp. Sensor	8-MSOP	5512.50/2,500		
TMP411BD	296-22887-5-ND	±1°C Remote/Local Temp. Sensor ***NEW!***	8-SOIC	3.94	3.15	2.45
TMP411BDGKR	296-21418-1-ND	±1°C Remote/Local Temp. Sensor	8-MSOP	3.94	3.15	2.45
TMP411BDGKR	296-21418-2-ND	±1°C Remote/Local Temp. Sensor	8-MSOP	5512.50/2,500		
TMP421AIDCNT	296-21990-1-ND	Remote Temperature Sensor	SOT-23-8	3.15	2.52	1.96
TMP421AIDCNT	296-21990-2-ND	Remote Temperature Sensor	SOT-23-8	465.50/250		
TMP422AIDCNT	296-22675-1-ND	Remote Temperature Sensor Monitor ***NEW!***	SOT-23-8	4.16	3.33	2.59
TMP422AIDCNT	296-22675-2-ND	Remote Temperature Sensor Monitor ***NEW!***	SOT-23-8	615.25/250		
TMP423AIDCNT	296-23323-1-ND	±1°C Remote/Local Temp. Sensor ***NEW!***	SOT-23-8	3.49	2.79	2.17
TMP423AIDCNT	296-23323-2-ND	±1°C Remote/Local Temp. Sensor ***NEW!***	SOT-23-8	515.50/250		
TMP423BIDCNT	296-23324-1-ND	±1°C Remote/Local Temp. Sensor ***NEW!***	SOT-23-8	3.49	2.79	2.17
TMP423BIDCNT	296-23324-2-ND	±1°C Remote/Local Temp. Sensor ***NEW!***	SOT-23-8	515.50/250		

TIMERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NA555DR	296-21752-1-ND	Precision Timer	8-SOIC	.48	.36	.27
NA555DR	296-21752-2-ND	Precision Timer	8-SOIC	390.00/2,500		
NA555P	296-21753-5-ND	Precision Timer	8-Dip	.48	.36	.27
NA556DR	296-21754-1-ND	Dual Precision Timer	14-SOIC	.60	.45	.34
NA556DR	296-21754-2-ND	Dual Precision Timer	14-SOIC	487.50/2,500		
NA556N	296-21755-5-ND	Dual Precision Timer	14-Dip	.60	.45	.34
NE555D	296-16792-ND	Precision Timer	8-SOIC	.42	.34	.24
NE555DR	296-6501-1-ND	Precision Timer	8-SOIC	.42	.34	.24
NE555DR	296-6501-2-ND	Precision Timer	8-SOIC	272.50/2,500		
NE555P	296-1411-5-ND	Precision Timer	8-Dip	.44	.36	.25
NE555PSR	296-6502-1-ND	Precision Timer	8-SOP	.45	.36	.27
NE555PSR	296-6502-2-ND	Precision Timer	8-SOP	324.00/2,000		
NE555PW	296-15086-5-ND	Precision Timer	8-TSSOP	.45	.36	.27
NE556D	296-6503-5-ND	Dual Precision Timer	14-SOIC	.50	.40	.30
NE556N	296-6504-5-ND	Dual Precision Timer	14-Dip	.44	.36	.27
NE556NSR	296-13104-1-ND	Dual Precision Timer	14-SOP	.50	.40	.30
NE556NSR	296-13104-2-ND	Dual Precision Timer	14-SOP	280.00/2,000		
SA555D	296-9681-5-ND	Precision Timer	8-SOIC	.50	.40	.30
SA555DR	296-14635-1-ND	Precision Timer	8-SOIC	.50	.40	.30
SA555DR	296-14635-2-ND	Precision Timer	8-SOIC	335.00/2,500		
SA555P	296-9682-5-ND	Precision Timer	8-Dip	.50	.40	.30
SE555D	296-9683-5-ND	Precision Timer	8-SOIC	.84	.70	.56
SE555DG4	296-22062-5-ND	Precision Timer ***NEW!***	8-SOIC	.84	.70	.56
SE555P	296-9684-5-ND	Precision Timer	8-Dip	.84	.70	.56
TLC551CD	296-11822-5-ND	CMOS Timer	8-SOIC	1.11	.93	.74
TLC551CP	296-10333-5-ND	CMOS Timer	8-Dip	1.11	.93	.74
TLC552CD	296-10334-5-ND	CMOS Timer	14-SOIC	1.48	1.18	.89
TLC552CN	296-10335-5-ND	CMOS Timer	14-Dip	1.48	1.18	.89
TLC555CD	296-1336-5-ND	LinCMOS™ Timer	8-SOIC	.68	.51	.39
TLC555CDR	296-1336-1-ND	LinCMOS™ Timer	8-SOIC	.68	.51	.39
TLC555CDR	296-1336-2-ND	LinCMOS™ Timer	8-SOIC	552.50/2,500		
TLC555CP	296-1857-5-ND	LinCMOS™ Timer	8-Dip	.68	.51	.39
TLC555CPWR	296-10339-1-ND	LinCMOS™ Timer	14-TSSOP	.68	.51	.39
TLC555CPWR	296-10339-2-ND	LinCMOS™ Timer	14-TSSOP	452.00/2,000		
TLC555ID	296-1337-5-ND	LinCMOS™ Timer	8-SOIC	.76	.57	.43
TLC555IDR	296-1337-1-ND	LinCMOS™ Timer	8-SOIC	.76	.57	.43
TLC555IDR	296-1337-2-ND	LinCMOS™ Timer	8-SOIC	617.50/2,500		
TLC555IP	296-1858-5-ND	LinCMOS™ Timer	8-Dip	.76	.57	.43
TLC555QDR	296-10341-1-ND	LinCMOS™ Timer	8-SOIC	.76	.57	.43
TLC555QDR	296-10341-2-ND	LinCMOS™ Timer	8-SOIC	617.50/2,500		
TLC555QDRQ1	296-22999-1-ND	LinCMOS™ Timer ***NEW!***	8-SOIC	.80	.60	.45
TLC555QDRQ1	296-22999-2-ND	LinCMOS™ Timer ***NEW!***	8-SOIC	650.00/2,500		
TLC556CD	296-1338-5-ND	Dual CMOS Timer	14-SOIC	1.02	.85	.68
TLC556CDR	296-1338-1-ND	Dual CMOS Timer	14-SOIC	1.02	.85	.68
TLC556CDR	296-1338-2-ND	Dual CMOS Timer	14-SOIC	1105.00/2,500		
TLC556CN	296-1859-5-ND	Dual CMOS Timer	14-Dip	1.02	.85	.68
TLC556ID	296-10343-5-ND	Dual CMOS Timer	14-SOIC	1.11	.93	.74
TLC556IN	296-10344-5-ND	Dual CMOS Timer	14-Dip	1.11	.93	.74
TLC556MD	296-10345-5-ND	Dual CMOS Timer	14-SOIC	1.38	1.15	.92

EVALUATION BOARDS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DEM-OPA-MSOP-2A	296-22742-ND	Demo Board for 8-MSOP Dual Op Amps ***NEW!***	—	5.10	—	—
DEM-OPA-SO-2A	296-22743-ND	Demo Board for 8-SOIC Dual Op Amps ***NEW!***	—	5.10	—	—
DEM-OPA-SO-2B	296-22744-ND	Demo Board for 8-SOIC Dual Op Amps ***NEW!***	—	5.10	—	—
DEM-OPA-SO-2C	296-22745-ND	Demo Board for 8-SOIC Dual Op Amps ***NEW!***	—	5.10	—	—
DEM-OPA-SO-2D	296-22746-ND	Demo Board for 14-SOIC Dual Op Amps ***NEW!***	—	5.10	—	—
DEM-OPA-SOT-2A	296-22747-ND	Demo Board for SOT-23-8 Dual Op Amps ***NEW!***	—	5.10	—	—
OPAMPEVM-MSOPTSSOP	296-9625-ND	Universal Eval. Module for MSOP/TSSOP	—	5.10	—	—
OPAMPEVM-PDIP	296-9626-ND	Universal Eval. Module for Dip Package	—	5.10	—	—
OPAMPEVM-SOT23	296-9628-ND	Universal Eval. Module for SOT23 Package	—	5.10	—	—
OPAMPEVM-SOT23SHDN	296-9629-ND	Universal Eval. Module for SOT23 Package	—	5.10	—	—

10/100 ETHERNET

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
KSZ8001L	576-1508-5-ND	3.3V, 10/100BASE-T/TX/FX PHY Transceiver*	48-LQFP	4.19	3.35	2.61
KSZ8041NL TR	576-1645-1-ND	3.3V, 10/100BASE-T/TX MII/RMII Physical Layer Transceiver*	32-MLF	2.27	1.82	1.42
KSZ8041NL TR	576-1645-2-ND	3.3V, 10/100BASE-T/TX MII/RMII Physical Layer Transceiver*	32-MLF	1288.00/1,000		
KSZ8041TL	576-1619-ND	3.3V, 10/100BASE-T/TX MII/RMII/SMII Physical Layer Transceiver*	48-TQFP	3.92	3.14	2.44
KSZ8041TLI	576-2971-5-ND	10/100BASE-T/TX Physical Layer Transceiver ***NEW!***	48-TQFP	4.75	3.80	2.96
KS8695P	576-1001-ND	Multi-Port PCI Gateway-on-a-Chip	289-PBGA	16.09	14.49	12.85
KSZ8695P	576-1509-5-ND	Multi-Port PCI Gateway Solution*	289-PBGA	17.31	16.16	15.01
KSZ8695PX	576-1024-ND	Integrated Multi-Port PCI Gateway Solution*	289-PBGA	15.65	14.61	13.56
KSZ8721B	576-1026-5-ND	2.5V Low Power 10/100 PHY Transceiver*	48-SSOP	4.61	3.69	2.87
KSZ8721B TR	576-1026-1-ND	2.5V Low Power 10/100 PHY Transceiver*	48-SSOP	4.32	3.46	2.69
KSZ8721B TR	576-1026-2-ND	2.5V Low Power 10/100 PHY Transceiver*	48-SSOP	2448.00/1,000		
KSZ8721BI	576-1027-ND	2.5V Low Power 10/100 PHY Transceiver*	48-SSOP	4.93	3.95	3.07
KSZ8721BL	576-1028-5-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver*	48-LQFP	4.61	3.69	2.87
KSZ8721BL TR	576-1028-1-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver*	48-LQFP	4.61	3.69	2.87
KSZ8721BL TR	576-1028-2-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver*	48-LQFP	2614.00/1,000		
KSZ8721BLI	576-1029-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver*	48-LQFP	5.32	4.26	3.60
KSZ8721BT	576-1030-ND	2.5V, 10/100BASE-TX/FX MII Physical Layer Transceiver*	48-TQFP	3.62	2.90	2.26
KSZ8721SL	576-1031-5-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver*	48-SSOP	3.85	3.08	2.40
KSZ8721SL TR	576-1031-1-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver*	48-SSOP	3.85	3.08	2.40
KSZ8721SL TR	576-1031-2-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver*	48-SSOP	2180.00/1,000		
KSZ8841-32MVLI	576-2983-ND	Single-Port Ethernet MAC Controller* ***NEW!***	128-LQFP	12.51	11.27	9.99
KSZ8842-PMQL	576-1513-5-ND	2-Port Ethernet Switch*	128-PQFP	10.45	9.41	8.34
KSZ8842-16MQL	576-1478-5-ND	16-Bit, 2-Port Ethernet Switch*	128-PQFP	9.75	8.78	7.79
KSZ8842-32MQL	576-1479-5-ND	32-Bit, 2-Port Ethernet Switch*	128-PQFP	10.21	9.20	8.16
KSZ8862-16MQL	576-1564-ND	2-Port Ethernet Switch*	128-PQFP	25.59	23.89	22.18
KSZ8893FQL	576-1565-ND	3-Port Switch with Fiber Support*	128-PQFP	26.07	24.34	22.60
KSZ8893MQL	576-1477-5-ND	Integrated 3-Port 10/100 Managed Switch with PHYs*	128-PQFP	9.31	8.39	7.44
KSZ8993	576-1032-ND	3-Port 10/100 Integrated Switch*	128-PQFP	9.98	8.99	7.97
KSZ8993F	576-1033-ND	Single Chip Fast Ethernet Media Converter*	128-PQFP	8.43	7.59	6.73
KSZ8993FL	576-1035-ND	Single Chip Fast Ethernet Media Converter*	128-PQFP	9.35	8.42	7.47
KSZ8993I	576-1036-ND	3-Port 10/100 Integrated Switch*	128-PQFP	14.69	13.23	11.74
KSZ8993M	576-1037-ND	Integrated 3-Port 10/100 Managed Switch*	128-PQFP	8.46	6.77	5.72
KSZ8995M	576-1038-ND	Integrated 5-Port 10/100 Managed Switch*	128-PQFP	8.43	7.59	6.73
KSZ8995MA	576-1039-ND	Integrated 5-Port 10/100 Managed Switch*	128-PQFP	9.46	7.57	6.39
KSZ8995MAL	576-1040-ND	Integrated 5-Port 10/100 Managed Switch*	128-PQFP	13.26	11.94	10.59
KSZ8995X	576-1041-ND	Integrated 5-Port 10/100 QoS Switch*	128-PQFP	9.52	7.62	6.43
KSZ8995XA	576-1042-ND	Integrated 5-Port 10/100 QoS Switch*	128-PQFP	8.78	7.03	5.93
KSZ8997	576-1043-ND	Integrated 8-Port 10/100 Switch*	128-PQFP	18.24	17.03	15.81
KSZ8999	576-1044-ND	Integrated 9-Port 10/100 Switch*	208-PQFP	19.28	17.99	16.71
MIC2981/82YN	576-1158-ND	High Voltage High Current Source Driver Array*	18-Dip	2.27	1.82	1.42
MIC2981/82YWM	576-1159-ND	High Voltage High Current Source Driver Array*	18-SOIC	2.27	1.82	1.42

BATTERY CHARGERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC79110-4.2YML TR	576-2902-1-ND	1.2A, Linear Li-Ion Battery Charger ***NEW!***	10-MLF	3.96	3.17	2.47
MIC79110-4.2YML TR	576-2902-2-ND	1.2A, Linear Li-Ion Battery Charger ***NEW!***	10-MLF	11000.00/5,000		
MIC79110YML TR	576-1320-1-ND	1.2A Linear Li-Ion Battery Charger	10-MLF	3.96	3.17	2.47
MIC79110YML TR	576-1320-2-ND	1.2A Linear Li-Ion Battery Charger	10-MLF	11000.00/5,000		

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COMPARATORS
RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC833YM5 TR	576-2921-1-ND	Comparator and Reference with Adj. Hysteresis ***NEW!***	SOT-23-5	1.55	1.24	.93
MIC833YM5 TR	576-2921-2-ND	Comparator and Reference with Adj. Hysteresis ***NEW!***	SOT-23-5	2382.00/3,000		
MIC834YM5 TR	576-2922-1-ND	Comparator with Reference ***NEW!***	SOT-23-5	1.55	1.24	.93
MIC834YM5 TR	576-2922-2-ND	Comparator with Reference ***NEW!***	SOT-23-5	2382.00/3,000		
MIC841HYC5 TR	576-2923-1-ND	Comparator with Reference ***NEW!***	SC-70-5	1.08	.90	.72
MIC841HYC5 TR	576-2923-2-ND	Comparator with Reference ***NEW!***	SC-70-5	1404.00/3,000		
MIC841LYC5 TR	576-2924-1-ND	Comparator with Reference ***NEW!***	SC-70-5	1.08	.90	.72
MIC841LYC5 TR	576-2924-2-ND	Comparator with Reference ***NEW!***	SC-70-5	1404.00/3,000		
MIC841NYC5 TR	576-2925-1-ND	Comparator with Reference ***NEW!***	SC-70-5	1.08	.90	.72
MIC841NYC5 TR	576-2925-2-ND	Comparator with Reference ***NEW!***	SC-70-5	1404.00/3,000		
MIC842HYC5 TR	576-2926-1-ND	Comparator with Reference ***NEW!***	SC-70-5	1.08	.90	.72
MIC842HYC5 TR	576-2926-2-ND	Comparator with Reference ***NEW!***	SC-70-5	1404.00/3,000		
MIC842LYC5 TR	576-2927-1-ND	Comparator with Reference ***NEW!***	SC-70-5	1.08	.90	.72
MIC842LYC5 TR	576-2927-2-ND	Comparator with Reference ***NEW!***	SC-70-5	1404.00/3,000		
MIC842NYC5 TR	576-2928-1-ND	Comparator with Reference ***NEW!***	SC-70-5	1.08	.90	.72
MIC842NYC5 TR	576-2928-2-ND	Comparator with Reference ***NEW!***	SC-70-5	1404.00/3,000		
MIC845HYC5 TR	576-2929-1-ND	µP Comparator/Battery Monitor ***NEW!***	SC-70-5	1.08	.90	.72
MIC845HYC5 TR	576-2929-2-ND	µP Comparator/Battery Monitor ***NEW!***	SC-70-5	1404.00/3,000		
MIC845LYC5 TR	576-2930-1-ND	µP Comparator/Battery Monitor ***NEW!***	SC-70-5	1.08	.90	.72
MIC845LYC5 TR	576-2930-2-ND	µP Comparator/Battery Monitor ***NEW!***	SC-70-5	1404.00/3,000		
MIC6270YM5 TR	576-1315-1-ND	IttyBitty™ Comparator	SOT-23-5	.80	.60	.45
MIC6270YM5 TR	576-1315-2-ND	IttyBitty™ Comparator	SOT-23-5	780.00/3,000		
MIC7211YM5 TR	576-1318-1-ND	IttyBitty™ R/R Input Comparator	SOT-23-5	.75	.63	.50
MIC7211YM5 TR	576-1318-2-ND	IttyBitty™ R/R Input Comparator	SOT-23-5	975.00/3,000		

DISPLAY DRIVERS
RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2287CYD5 TR	576-2656-1-ND	1.2MHz PWM White LED Driver ***NEW!***	SOT-23-5	1.29	1.08	.86
MIC2287CYD5 TR	576-2656-2-ND	1.2MHz PWM White LED Driver ***NEW!***	SOT-23-5	1677.00/3,000		
MIC2291YD5 TR	576-1077-1-ND	1.2A PWM Boost Regulator Photo Flash LED Driver	5-TSOT	1.73	1.38	1.04
MIC2291YD5 TR	576-1077-2-ND	1.2A PWM Boost Regulator Photo Flash LED Driver	5-TSOT	2649.00/3,000		
MIC2292-15YML TR	576-1078-1-ND	High-Frequency PWM White LED Driver	8-MLF	1.85	1.48	1.11
MIC2292-15YML TR	576-1078-2-ND	High-Frequency PWM White LED Driver	8-MLF	4625.00/5,000		
MIC2293-34YML TR	576-2657-1-ND	2MHz PWM White LED Driver with OVP ***NEW!***	8-MLF	2.05	1.64	1.23
MIC2293-34YML TR	576-2657-2-ND	2MHz PWM White LED Driver with OVP ***NEW!***	8-MLF	5125.00/5,000		
MIC2293-15YML TR	576-1079-1-ND	High-Frequency PWM White LED Driver	8-MLF	1.95	1.56	1.17
MIC2293-15YML TR	576-1079-2-ND	High-Frequency PWM White LED Driver	8-MLF	4875.00/5,000		
MIC2297-42YML TR	576-1440-1-ND	40V PWM Boost Reg. White LED Driver	10-MLF	1.98	1.58	1.19
MIC2297-42YML TR	576-1440-2-ND	40V PWM Boost Reg. White LED Driver	10-MLF	4940.00/5,000		
MIC2298-15YML TR	576-1657-1-ND	7W, 1MHz Boost High Brightness White LED Driver	12-MLF	3.26	2.61	2.03
MIC2298-15YML TR	576-1657-2-ND	7W, 1MHz Boost High Brightness White LED Driver	12-MLF	9065.00/5,000		
MIC2299-15YML TR	576-3052-1-ND	2MHz High Brightness White LED Driver ***NEW!***	12-MLF	3.38	2.70	2.10
MIC2299-15YML TR	576-3052-2-ND	2MHz High Brightness White LED Driver ***NEW!***	12-MLF	9375.00/5,000		
MIC3287-24YML TR	576-1464-1-ND	1.2MHz PWM White LED Driver	8-MLF	1.65	1.32	.99
MIC3287-24YML TR	576-1464-2-ND	1.2MHz PWM White LED Driver	8-MLF	4125.00/5,000		
MIC3289-16YD6 TR	576-3001-1-ND	1.2MHz PWM White LED Driver ***NEW!***	TSOT-23-6	1.90	1.52	1.14
MIC3289-16YD6 TR	576-3001-2-ND	1.2MHz PWM White LED Driver ***NEW!***	TSOT-23-6	2919.00/3,000		
MIC3289-16YML TR	576-2712-1-ND	1.2MHz PWM White LED Driver ***NEW!***	8-MLF	2.28	1.82	1.37
MIC3289-16YML TR	576-2712-2-ND	1.2MHz PWM White LED Driver ***NEW!***	8-MLF	5690.00/5,000		
MIC3289-24YD6 TR	576-3041-1-ND	1.2MHz PWM White LED Driver ***NEW!***	TSOT-23-6	1.90	1.52	1.14
MIC3289-24YD6 TR	576-3041-2-ND	1.2MHz PWM White LED Driver ***NEW!***	TSOT-23-6	2919.00/3,000		
MIC3289-24YML TR	576-2713-1-ND	1.2MHz PWM White LED Driver ***NEW!***	8-MLF	2.28	1.82	1.37
MIC3289-24YML TR	576-2713-2-ND	1.2MHz PWM White LED Driver ***NEW!***	8-MLF	5690.00/5,000		
MIC4826YMM TR	576-1226-1-ND	Low Input Voltage, 160Vpp Output Voltage, EL Driver	8-MSOP	1.90	1.52	1.14
MIC4826YMM TR	576-1226-2-ND	Low Input Voltage, 160Vpp Output Voltage, EL Driver	8-MSOP	2432.50/2,500		
MIC4830YML TR	576-3016-1-ND	Low Noise, 180Vpp Output, EL Driver ***NEW!***	8-MLF	2.05	1.64	1.23
MIC4830YML TR	576-3016-2-ND	Low Noise, 180Vpp Output, EL Driver ***NEW!***	8-MLF	5125.00/5,000		
MIC4832YML TR	576-3032-1-ND	Low Noise, 220Vpp Output, EL Driver ***NEW!***	8-MLF	2.05	1.64	1.23
MIC4832YML TR	576-3032-2-ND	Low Noise, 220Vpp Output, EL Driver ***NEW!***	8-MLF	5125.00/5,000		
MIC5400YWM TR	576-1300-1-ND	Dual 8-Output, 14-Bit LED Video Display Driver	28-SOIC	3.38	2.70	2.10
MIC5400YWM TR	576-1300-2-ND	Dual 8-Output, 14-Bit LED Video Display Driver	28-SOIC	1913.00/1,000		
MM5450YN	576-1341-ND	LED Display Driver	40-Dip	3.98	3.19	2.48
MM5450YV TR	576-1342-1-ND	LED Display Driver	44-PLCC	3.98	3.19	2.48
MM5450YV TR	576-1342-2-ND	LED Display Driver	44-PLCC	1150.50/500		
MM5451YN	576-1343-ND	LED Display Driver	40-Dip	3.87	3.10	2.41
MM5451YV TR	576-1344-1-ND	LED Display Driver	44-PLCC	3.87	3.10	2.41
MM5451YV TR	576-1344-2-ND	LED Display Driver	44-PLCC	1118.00/500		

SYSTEM MANAGEMENT ICs
RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC502YM	576-1241-ND	Fan Management IC	8-SOIC	1.95	1.56	1.17
MIC502YN	576-1242-ND	Fan Management IC	8-Dip	2.33	1.86	1.40
MIC280-0YM6 TR	576-2697-1-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	2.52	2.02	1.57
MIC280-0YM6 TR	576-2697-2-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	4233.00/3,000		
MIC280-1YM6 TR	576-2698-1-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	2.52	2.02	1.57
MIC280-1YM6 TR	576-2698-2-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	4233.00/3,000		
MIC280-2YM6 TR	576-2699-1-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	2.52	2.02	1.57
MIC280-2YM6 TR	576-2699-2-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	4233.00/3,000		
MIC280-3YM6 TR	576-2700-1-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	2.52	2.02	1.57
MIC280-3YM6 TR	576-2700-2-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	4233.00/3,000		
MIC280-4YM6 TR	576-2701-1-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	2.52	2.02	1.57
MIC280-4YM6 TR	576-2701-2-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	4233.00/3,000		
MIC280-5YM6 TR	576-2702-1-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	2.52	2.02	1.57
MIC280-5YM6 TR	576-2702-2-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	4233.00/3,000		
MIC280-6YM6 TR	576-2703-1-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	2.52	2.02	1.57
MIC280-6YM6 TR	576-2703-2-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	4233.00/3,000		
MIC281-0YM6 TR	576-2709-1-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	1.78	1.42	1.07
MIC281-0YM6 TR	576-2709-2-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	2727.00/3,000		
MIC281-1YM6 TR	576-2710-1-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	1.78	1.42	1.07
MIC281-1YM6 TR	576-2710-2-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	2727.00/3,000		
MIC281-4YM6 TR	576-2711-1-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	1.78	1.42	1.07
MIC281-4YM6 TR	576-2711-2-ND	Precision IttyBitty™ Thermal Supervisor ***NEW!***	SOT-23-6	2727.00/3,000		

FANOUT ICs
RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SY10EL11VZG	576-1370-ND	3.3V, 5V 1:2 Diff. Fanout Buffer	8-SOIC	2.43	1.95	1.52
SY10EP451LTG	576-1652-5-ND	3.3V ECL 6-Bit Diff. Register	32-TQFP	11.33	10.20	9.05
SY100EL11VZG TR	576-1349-1-ND	3.3V, 5V, 1:2 Diff. Fanout Buffer	8-SOIC	2.43	1.95	1.52
SY100EL11VZG TR	576-1349-2-ND	3.3V, 5V, 1:2 Diff. Fanout Buffer	8-SOIC	1377.00/1,000		
SY100EP11UKG	576-1365-ND	2.5V/3.3V/5V, 1:2 Diff. PECL/LVPECL/ECL Fanout Buffer	8-MSOP	3.33	2.67	2.08
SY100EP11UKG TR	576-1559-1-ND	2.5V/3.3V/5V, 1:2 Diff. PECL/LVPECL/ECL Fanout Buffer	8-MSOP	3.33	2.67	2.08
SY100EP11UKG TR	576-1559-2-ND	2.5V/3.3V/5V, 1:2 Diff. PECL/LVPECL/ECL Fanout Buffer	8-MSOP	1887.00/1,000		
SY100EP451LTG	576-1653-5-ND	3.3V ECL 6-Bit Diff. Register	32-TQFP	11.33	10.20	9.05
SY58012UMG	576-1533-5-ND	5GHz, 1:2 LVPECL Fanout Buffer/Translator	16-MLF	6.88	5.51	4.65
SY58021UMG	576-1535-5-ND	4GHz, 1:4 LVPECL Fanout Buffer/Translator	16-MLF	7.94	6.36	5.36
SY58031UMG	576-1388-ND	Ultra Precision 1:8 CML Fanout Buffer	32-MLF	9.16	8.25	7.32
SY58032UMG	576-1389-ND	Ultra Precision 1:8 Fanout Buffer	32-MLF	9.16	8.25	7.32
SY58034UMG	576-1391-ND	6GHz, 1:6 CML Fanout Buffer	32-MLF	9.35	8.42	7.47
SY58035UMG	576-1392-ND	4.5GHz, 1:6 LVPECL Fanout Buffer	32-MLF	9.35	8.42	7.47
SY58036UMG	576-1393-ND	6GHz, 1:6, 400mV LVPECL Fanout Buffer	32-MLF	9.35	8.42	7.47
SY58606UMG	576-1597-ND	4.25Gbps Precision 1:2, 400mV CML Fanout Buffer with Fail Safe Input	16-MLF	5.28	4.23	3.57
SY58607UMG	576-1598-ND	3.2Gbps Precision 1:2, 800mV LVPECL Fanout Buffer with Fail Safe Input	16-MLF	5.28	4.23	3.57
SY89112UMG	576-1416-ND	2.5/3.3V Low Jitter, Low Skew 1:12 LVPECL Fanout Buffer	44-MLF	7.38	5.91	4.99
SY89200UMG	576-1417-ND	Ultra Precision 1:8 LVDS Fanout	32-MLF	8.68	6.95	5.86
SY89202UMG	576-1537-5-ND	Precision 1:8 LVPECL Fanout Buffer	32-MLF	8.68	6.95	5.86
SY89218UHY	576-1615-ND	2.5V, 1:15 LVDS Fanout Buffer	64-TQFP	11.21	10.10	8.96
SY89221UHY	576-1616-ND	2.5V/3.3V, 1:15 LVPECL Fanout Buffer	64-TQFP	12.05	10.85	9.62
SY89228UMG	576-1650-5-ND	1GHz Precision, 3:5 LVPECL Clock Divider	16-MLF	5.69	4.56	3.55
SY89229UMG	576-1651-5-ND	1GHz Precision, 3:5 LVDS Clock Divider	16-MLF	5.69	4.56	3.55
SY89465UMG TR	576-1476-1-ND	Precision LVDS 1:10 Fanout Buffer	44-MLF	7.38	5.91	4.99
SY89465UMG TR	576-1476-2-ND	Precision LVDS 1:10 Fanout Buffer	44-MLF	4613.00/1,000		
SY89645LK4G	576-1599-ND	1:4 LVCMOS/LVTTL to LVDS Fanout Buffer/Translator	20-TSSOP	4.07	3.26	2.54
SY89823LHG	576-1429-ND	3.3V, 500MHz 1:22 Differential HSTL Fanout Buffer/Translator	64-TQFP	14.11	12.71	11.27
SY89831UMG	576-1431-ND	Ultra Precision 1:4 LVPECL Fanout Buffer/Translator	16-MLF	4.73	3.78	2.94
SY89832UMG	576-1432-ND	2.5V Ultra Precision 1:4 LVDS Fanout Buffer/Translator	16-MLF	4.73	3.78	2.94
SY89833LMG	576-1433-ND	3.3V Ultra Precision 1:4 LVDS Fanout Buffer/Translator	16-MLF	4.73	3.78	2.94
SY89835UMG TR	576-1506-1-ND	2.5V, 2GHz Ultra-Precision, Diff. 1:2 LVDS Fanout Buffer	8-MLF	3.92	3.14	2.44
SY89835UMG TR	576-1506-2-ND	2.5V, 2GHz Ultra-Precision, Diff. 1:2 LVDS Fanout Buffer	8-MLF	2219.00/1,000		
SY89838UMG	576-1538-5-ND	Precision 1:8 LVDS Clock Fanout Buffer	32-MLF	7.40	5.92	5.00

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

FANOUT ICs *(Continued)*

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SY89846UMG	576-1617-ND	2.5V/3.3V, 1.5GHz 1:5 LVPECL Fanout Buffer	32-MLF	5.27	4.22	3.28
SY89847UMG	576-1618-ND	2.5V, 1.5GHz 1:5 LVDS Fanout Buffer	32-MLF	5.27	4.22	3.28
SY89871UMG	576-1435-ND	2.5GHz Any Diff. In-to-LVPECL Prog. Clock Divider/Fanout Buffer	16-MLF	6.06	4.85	4.10
SY89873LMG	576-1436-ND	3.3V, 2.0GHz Any Diff. In-to-LVDS Prog. Clock Divider/Fanout Buffer	16-MLF	6.50	5.20	4.39
SY89874UMG	576-1437-ND	2.5GHz Any Diff. In-to-LVPECL Prog. Clock Divider/Fanout Buffer	16-MLF	5.29	4.23	3.29
SY89876LMI TR	576-2958-1-ND	3.3V, 2GHz Any Diff. In-to-LVDS Prog. Clock Divider/Fanout Buffer	16-MLF	5.06	4.05	3.42
SY89876LMI TR	576-2958-2-ND	3.3V, 2GHz Any Diff. In-to-LVDS Prog. Clock Divider/Fanout Buffer	16-MLF	3163.00/1,000		

HIGH-SIDE LOAD SWITCHES

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2514YM5 TR	576-1085-1-ND	IttyBitty™ Integrated High-Side Switch	SOT-23-5	2.23	1.78	1.34
MIC2514YM5 TR	576-1085-2-ND	IttyBitty™ Integrated High-Side Switch	SOT-23-5	3417.00/3,000		
MIC94030YM4 TR	576-2936-1-ND	16V, 1A TinyFET™ P-Channel MOSFET ***NEW!***	SOT-143	1.17	.98	.78
MIC94030YM4 TR	576-2936-2-ND	16V, 1A TinyFET™ P-Channel MOSFET ***NEW!***	SOT-143	1521.00/3,000		
MIC94031YM4 TR	576-1327-1-ND	TinyFET™ P-Channel MOSFET	SOT-143	1.17	.98	.78
MIC94031YM4 TR	576-1327-2-ND	TinyFET™ P-Channel MOSFET	SOT-143	1521.00/3,000		
MIC94050YM4 TR	576-2937-1-ND	6V, 1.8A 4-Terminal SymFET™ P-Channel MOSFET ***NEW!***	SOT-143	.75	.63	.50
MIC94050YM4 TR	576-2937-2-ND	6V, 1.8A 4-Terminal SymFET™ P-Channel MOSFET ***NEW!***	SOT-143	975.00/3,000		
MIC94052YC6 TR	576-2938-1-ND	6V, 2A P-Channel MOSFET ***NEW!***	SC-70-6	.87	.73	.58
MIC94052YC6 TR	576-2938-2-ND	6V, 2A P-Channel MOSFET ***NEW!***	SC-70-6	1131.00/3,000		
MIC94053YC6 TR	576-2939-1-ND	6V, 2A P-Channel MOSFET ***NEW!***	SC-70-6	.90	.75	.60
MIC94053YC6 TR	576-2939-2-ND	6V, 2A P-Channel MOSFET ***NEW!***	SC-70-6	1170.00/3,000		
MIC94060YC6 TR	576-2940-1-ND	Soft Start High Side Power Switch ***NEW!***	SC-70-6	.99	.83	.66
MIC94060YC6 TR	576-2940-2-ND	Soft Start High Side Power Switch ***NEW!***	SC-70-6	1287.00/3,000		
MIC94060YMT TR	576-2941-1-ND	Soft Start High Side Power Switch ***NEW!***	4-MLF	.84	.70	.56
MIC94060YMT TR	576-2941-2-ND	Soft Start High Side Power Switch ***NEW!***	4-MLF	1785.00/5,000		
MIC94061YC6 TR	576-2942-1-ND	Soft Start High Side Power Switch ***NEW!***	SC-70-6	1.05	.88	.70
MIC94061YC6 TR	576-2942-2-ND	Soft Start High Side Power Switch ***NEW!***	SC-70-6	1365.00/3,000		
MIC94061YMT TR	576-2943-1-ND	Soft Start High Side Power Switch ***NEW!***	4-MLF	.84	.70	.56
MIC94061YMT TR	576-2943-2-ND	Soft Start High Side Power Switch ***NEW!***	4-MLF	1785.00/5,000		
MIC94062YC6 TR	576-1328-1-ND	Soft Start High-Side Power Switch	SC70-6	1.08	.90	.72
MIC94062YC6 TR	576-1328-2-ND	Soft Start High-Side Power Switch	SC70-6	1404.00/3,000		
MIC94062YMT TR	576-2944-1-ND	Soft Start High Side Power Switch ***NEW!***	4-MLF	.84	.70	.56
MIC94062YMT TR	576-2944-2-ND	Soft Start High Side Power Switch ***NEW!***	4-MLF	1785.00/5,000		
MIC94063YC6 TR	576-1329-1-ND	Soft Start High-Side Power Switch	SC70-6	1.14	.95	.76
MIC94063YC6 TR	576-1329-2-ND	Soft Start High-Side Power Switch	SC70-6	1482.00/3,000		
MIC94064YC6 TR	576-3036-1-ND	Soft Start High-Side Power Switch ***NEW!***	SC70-6	1.17	.98	.78
MIC94064YC6 TR	576-3036-2-ND	Soft Start High-Side Power Switch ***NEW!***	SC70-6	1521.00/3,000		
MIC94064YMT TR	576-3071-1-ND	Soft Start High-Side Power Switch ***NEW!***	4-MLF	1.17	.98	.78
MIC94064YMT TR	576-3071-2-ND	Soft Start High-Side Power Switch ***NEW!***	4-MLF	2485.00/5,000		
MIC94065YC6 TR	576-3037-1-ND	Soft Start High-Side Power Switch with Load Discharge ***NEW!***	SC70-6	1.17	.98	.78
MIC94065YC6 TR	576-3037-2-ND	Soft Start High-Side Power Switch with Load Discharge ***NEW!***	SC70-6	1521.00/3,000		
MIC94065YMT TR	576-3035-1-ND	Soft Start High-Side Power Switch with Load Discharge ***NEW!***	4-MLF	1.17	.98	.78
MIC94065YMT TR	576-3035-2-ND	Soft Start High-Side Power Switch with Load Discharge ***NEW!***	4-MLF	2485.00/5,000		
MIC94066YML TR	576-1578-1-ND	Soft Start Dual High-Side Power Switch	8-MLF	1.25	1.00	.75
MIC94066YML TR	576-1578-2-ND	Soft Start Dual High-Side Power Switch	8-MLF	3125.00/5,000		
MIC94067YML TR	576-1579-1-ND	Soft Start Dual High-Side Power Switch	8-MLF	1.25	1.00	.75
MIC94067YML TR	576-1579-2-ND	Soft Start Dual High-Side Power Switch	8-MLF	3125.00/5,000		
MIC94068YML TR	576-1580-1-ND	Soft Start Dual High-Side Power Switch	8-MLF	1.25	1.00	.75
MIC94068YML TR	576-1580-2-ND	Soft Start Dual High-Side Power Switch	8-MLF	3125.00/5,000		
MIC94069YML TR	576-1581-1-ND	Soft Start Dual High-Side Power Switch	8-MLF	1.25	1.00	.75
MIC94069YML TR	576-1581-2-ND	Soft Start Dual High-Side Power Switch	8-MLF	3125.00/5,000		
MIC94070YC6 TR	576-3006-1-ND	Fast Turn On High-Side Power Switch ***NEW!***	SC70-6	.84	.63	.48
MIC94070YC6 TR	576-3006-2-ND	Fast Turn On High-Side Power Switch ***NEW!***	SC70-6	819.00/3,000		
MIC94071YC6 TR	576-3042-1-ND	Fast Turn On High-Side Power Switch ***NEW!***	SC70-6	.84	.63	.48
MIC94071YC6 TR	576-3042-2-ND	Fast Turn On High-Side Power Switch ***NEW!***	SC70-6	819.00/3,000		
MIC94071YMT TR	576-3046-1-ND	Fast Turn On High-Side Power Switch ***NEW!***	4-MLF	.84	.70	.56
MIC94071YMT TR	576-3046-2-ND	Fast Turn On High-Side Power Switch ***NEW!***	4-MLF	1785.00/5,000		
MIC94072YMT TR	576-2982-1-ND	Soft Start On High Side Power Switch ***NEW!***	6-MLF	.93	.78	.62
MIC94072YMT TR	576-2982-2-ND	Soft Start on High Side Power Switch ***NEW!***	6-MLF	1975.00/5,000		
MIC94073YC6 TR	576-3014-1-ND	Soft Start High-Side Power Switch ***NEW!***	SC70-6	.87	.73	.58
MIC94073YC6 TR	576-3014-2-ND	Soft Start High-Side Power Switch ***NEW!***	SC70-6	1131.00/3,000		

HOT-SWAP CONTROLLERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2341-2YTQ	576-2995-ND	Dual-Slot PCI Express Hot-Plug Controller ***NEW!***	48-TQFP	9.48	7.59	6.40
MIC2341R-2YTQ	576-2987-ND	Dual-Slot PCI Express Hot-Plug Controller ***NEW!***	48-TQFP	9.48	7.59	6.40
MIC2342-2YTQ	576-2993-ND	Dual-Slot PCI Express Hot-Plug Controller ***NEW!***	48-TQFP	9.48	7.59	6.40
MIC2342R-2YTQ	576-2996-ND	Dual-Slot PCI Express Hot-Plug Controller ***NEW!***	48-TQFP	9.48	7.59	6.40
MIC2580A-1.0YTS	576-1092-ND	Hot-Swap PCI Power Controller	24-TSSOP	6.52	5.22	4.41
MIC2582-JYM TR	576-1093-1-ND	Single-Channel Hot-Swap Controller	8-SOIC	4.68	3.75	2.92
MIC2584-JYTS TR	576-1494-1-ND	Dual-Channel Hot-Swap Controller/ Sequencer	16-TSSOP	7.96	6.37	5.38
MIC2585-1JBTS TR	576-1496-1-ND	Dual-Channel Hot-Swap Controller/ Sequencer	24-TSSOP	8.32	6.66	5.62
MIC2586-2YM	576-1094-ND	Single-Channel, Positive High Voltage Hot-Swap Controller/Sequencer	14-SOIC	7.32	5.86	4.95
MIC2586R-1YM	576-1095-ND	Single-Channel, Positive High Voltage Hot-Swap Controller/Sequencer	14-SOIC	7.32	5.86	4.95
MIC2587-1YM	576-1096-ND	Single-Channel, Positive High Voltage Hot-Swap Controller	8-SOIC	5.56	4.45	3.76
MIC2587R-1YM	576-1097-ND	Single-Channel, Positive High Voltage Hot-Swap Controller	8-SOIC	5.56	4.45	3.76
MIC2588-1YM TR	576-1481-1-ND	Single-Channel, Negative High Voltage Hot-Swap Controller	8-SOIC	3.44	2.76	2.33
MIC2588-1YM TR	576-1481-2-ND	Single-Channel, Negative High Voltage Hot-Swap Controller	8-SOIC	5332.50/2,500		
MIC2589R-1YM TR	576-1485-1-ND	Single-Channel, Negative High Voltage Hot-Swap Controller	14-SOIC	6.34	5.08	4.28
MIC2591B-2YTQ	576-1098-ND	Dual-Slot PCI Express Hot-Plug Controller	48-TQFP	17.52	16.36	15.19
MIC2592B-2YTQ	576-1099-ND	Dual-Slot PCI Express Hot-Plug Controller	48-TQFP	16.16	15.08	14.01
MIC2593-2YTQ	576-1100-ND	Dual-Slot PCI Hot-Plug Controller	48-TQFP	13.28	11.96	10.61
MIC2595-2YM TR	576-1490-1-ND	Single-Channel, Negative High Voltage Hot-Swap Controller	14-SOIC	6.34	5.08	4.28
MIC2595-2YM TR	576-1490-2-ND	Single-Channel, Negative High Voltage Hot-Swap Controller	14-SOIC	9827.50/2,500		

NEW! POWER MANAGEMENT ICs

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2800-D24MYML TR	576-2695-1-ND	Digital Power Management IC	16-MLF	4.46	3.57	2.78
MIC2800-D24MYML TR	576-2695-2-ND	Digital Power Management IC	16-MLF	12375.00/5,000		
MIC2800-G4SYML TR	576-2696-1-ND	Digital Power Management IC	16-MLF	4.46	3.57	2.78
MIC2800-G4SYML TR	576-2696-2-ND	Digital Power Management IC	16-MLF	12375.00/5,000		
MIC2807-NNYML TR	576-2704-1-ND	RF PA Power Management IC	17-MLF	4.95	3.96	3.08
MIC2807-NNYML TR	576-2704-2-ND	RF PA Power Management IC	17-MLF	13750.00/5,000		
MIC2810-4GKYML TR	576-2705-1-ND	Digital Power Management IC	16-MLF	4.21	3.37	2.62
MIC2810-4GKYML TR	576-2705-2-ND	Digital Power Management IC	16-MLF	11690.00/5,000		
MIC2810-4GMYML TR	576-2706-1-ND	Digital Power Management IC	16-MLF	4.21	3.37	2.62
MIC2810-4GMYML TR	576-2706-2-ND	Digital Power Management IC	16-MLF	11690.00/5,000		
MIC2810-4GSYML TR	576-2707-1-ND	Digital Power Management IC	16-MLF	4.21	3.37	2.62
MIC2810-4GSYML TR	576-2707-2-ND	Digital Power Management IC	16-MLF	11690.00/5,000		
MIC2810-4LSYML TR	576-2708-1-ND	Digital Power Management IC	16-MLF	4.21	3.37	2.62
MIC2810-4LSYML TR	576-2708-2-ND	Digital Power Management IC	16-MLF	11690.00/5,000		

INTEGRATED CIRCUITS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC3002GML	576-2975-5-ND	FOM Management IC ***NEW!***	24-MLF	7.74	6.20	5.23
MIC4830YMM	576-2976-5-ND	Low Noise 180Vp-p EL Driver ***NEW!***	8-MSOP	1.98	1.58	1.19
MIC4832YMM	576-2977-5-ND	Low Noise 220Vp-p EL Driver ***NEW!***	8-MSOP	1.98	1.58	1.19
MICRF610Z TR	576-1467-1-ND	868-870MHz ISM Band Transceiver Module	11.5x14.1mm	16.63	14.97	13.28
MICRF610Z TR	576-1467-2-ND	868-870MHz ISM Band Transceiver Module	11.5x14.1mm	6237.50/500		
MICRF620Z TR	576-1468-1-ND	430-440MHz ISM Band Transceiver Module	11.5x14.1mm	16.63	14.97	13.28
MICRF620Z TR	576-1468-2-ND	430-440MHz ISM Band Transceiver Module	11.5x14.1mm	6237.50/500		
SY10EL15ZG	576-1371-ND	1:4 Clock Distribution	16-SOIC	3.33	2.67	2.08
SY10EL16VZG	576-1372-ND	5V, 3.3V Differential Receiver	8 SOIC	2.45	1.96	1.47
SY10ELT22ZG	576-1373-ND	Dual TTL-to-Diff. PECL Translator	8-SOIC	2.36	1.89	1.47
SY10ELT23ZG	576-1374-ND	Dual Diff. PECL-to-TTL Translator	8-SOIC	2.36	1.89	1.47
SY10E111LJZ	576-2962-5-ND	1:9 Differential Clock Driver ***NEW!***	28-PLCC	5.45	4.36	3.39
SY10E111LEJZ	576-2963-5-ND	1:9 Differential Clock Driver ***NEW!***	28-PLCC	6.84	5.48	4.62
SY100E104JY	576-1345-ND	Quint 2-Input AND/NAND Gate	28-PLCC	5.38	4.31	3.64
SY100EL14VZG TR	576-1555-1-ND	5V, 3.3V, 1:5 Clock Distribution	20-SOIC	3.33	2.67	2.08
SY100EL14VZG TR	576-1555-2-ND	5V, 3.3V, 1:5 Clock Distribution	20-SOIC	1887.00/1,000		
SY100EL15ZG	576-1350-ND	1:4 Clock Distribution	16-SOIC	3.33	2.67	2.08

(Continued)

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SY100EL16VKG TR	576-1556-1-ND	5V, 3.3V Differential Receiver	8-MSOP	2.45	1.96	1.47
SY100EL16VKG TR	576-1556-2-ND	5V, 3.3V Differential Receiver	8-MSOP	1274.00/1,000		
SY100EL16VZG	576-1351-ND	5V, 3.3V Differential Receiver	8-SOIC	2.45	1.96	1.47
SY100EL16VZG TR	576-1557-1-ND	5V, 3.3V Differential Receiver	8-SOIC	2.45	1.96	1.47
SY100EL16VZG TR	576-1557-2-ND	5V, 3.3V Differential Receiver	8-SOIC	1274.00/1,000		
SY100EL17VZG TR	576-1352-1-ND	5V, 3.3V Quad Differential Receiver	20-SOIC	5.60	4.48	3.78
SY100EL17VZG TR	576-1352-2-ND	5V, 3.3V Quad Differential Receiver	20-SOIC	3500.00/1,000		
SY100EL32VZG	576-1353-ND	5V/3.3V, 2-Divider	8-SOIC	3.15	2.52	1.96
SY100EL33LZG	576-1354-ND	5V/3.3V, 4-Divider	8-SOIC	3.15	2.52	1.96
SY100EL57LZG	576-1355-ND	4:1 Differential Multiplexer	16-SOIC	3.78	3.03	2.36
SY100EL57ZG	576-1356-ND	4:1 Differential Multiplexer	16-SOIC	3.78	3.03	2.36
SY100EL92ZG	576-1357-ND	Triple LVPECL-to-PECL or PECL-to-LVPECL Translator	20-SOIC	5.22	4.18	3.53
SY100ELT20VZG	576-1358-ND	5V/3.3V TTL-to-Diff. PECL Translator	8-SOIC	2.36	1.89	1.47
SY100ELT20VZG TR	576-1359-1-ND	5V/3.3V TTL-to-Diff. PECL Translator	8-SOIC	2.36	1.89	1.47
SY100ELT20VZG TR	576-1359-2-ND	5V/3.3V TTL-to-Diff. PECL Translator	8-SOIC	1339.00/1,000		
SY100ELT22LZG TR	576-1360-1-ND	3.3V Dual TTL-to-Diff. PECL Translator	8-SOIC	2.36	1.89	1.47
SY100ELT22LZG TR	576-1360-2-ND	3.3V Dual TTL-to-Diff. PECL Translator	8-SOIC	1339.00/1,000		
SY100ELT22ZG	576-1361-ND	Dual TTL-to-Diff. PECL Translator	8-SOIC	2.36	1.89	1.47
SY100ELT23LZG TR	576-1362-1-ND	3.3V Dual Diff. LVPECL-to LVTTL Translator	8-SOIC	2.36	1.89	1.47
SY100ELT23LZG TR	576-1362-2-ND	3.3V Dual Diff. LVPECL-to LVTTL Translator	8-SOIC	1339.00/1,000		
SY100ELT23ZG	576-1363-ND	Dual Diff. PECL-to-TTL Translator	8-SOIC	2.36	1.89	1.47
SY100ELT23ZG TR	576-1558-1-ND	Dual Diff. PECL-to-TTL Translator	8-SOIC	2.36	1.89	1.47
SY100ELT23ZG TR	576-1558-2-ND	Dual Diff. PECL-to-TTL Translator	8-SOIC	1338.75/1,000		
SY100EP14UK4G	576-1366-ND	2.5V/3.3V/5V, 1:5 LVPECL/PECL/ECL/HSTL 2GHz Clock Driver	20-TSSOP	3.78	3.03	2.36
SY100EP56VK4G	576-1367-ND	3.3V/5V PECL/ECL 3GHz Dual Diff. 2:1 Mux	20-TSSOP	4.84	3.87	3.01
SY100EP111UTG	576-1364-ND	2.5V/3.3V, 1:10 Diff. LVPECL/LVECL/HSTL Clock Driver	32-TQFP	5.66	4.53	3.83
SY100EPT23LZG	576-1369-ND	3.3V Dual Diff. LVPECL-to-LVTTL Translator	8-SOIC	2.57	2.06	1.60
SY54011RMG	576-2994-ND	1.2V/1.8V, CML 1:2 Fanout Buffer ***NEW!***	16-MLF	8.22	6.58	5.55
SY54016ARMG TR	576-3068-1-ND	1.2V/1.8V, CML Differential Line Driver/Receiver ***NEW!***	8-MLF	5.14	4.12	3.47
SY54016ARMG TR	576-3068-2-ND	1.2V/1.8V, CML Differential Line Driver/Receiver ***NEW!***	8-MLF	3213.00/1,000		
SY54016RMG TR	576-3069-1-ND	1.2V/1.8V, CML Differential Line Driver/Receiver ***NEW!***	8-MLF	5.14	4.12	3.47
SY54016RMG TR	576-3069-2-ND	1.2V/1.8V, CML Differential Line Driver/Receiver ***NEW!***	8-MLF	3213.00/1,000		
SY54017ARMG	576-3057-ND	1.2V/1.8V, CML 2:1 MUX ***NEW!***	16-MLF	5.48	4.39	3.70
SY54017RMG	576-3063-ND	1.2V/1.8V, CML 2:1 MUX ***NEW!***	16-MLF	5.48	4.39	3.70
SY54023RMG	576-3061-ND	1.2V/1.8V, CML 2x2 Crosspoint Switch ***NEW!***	16-MLF	11.38	10.25	9.09
SY55851AUKG	576-1375-ND	2.5V/3V, 3.0GHz CML AnyGate™ Any Logic	10-MSOP	7.24	5.80	4.89
SY55855VKG	576-1376-ND	Dual CML/PECL/LVPECL-to-LVDS Translator	10-MSOP	5.38	4.31	3.64
SY55857LKG	576-1377-ND	3.3V, 2.5Gbps Any Input-to-LVPECL Dual Translator	10-MSOP	5.38	4.31	3.64
SY55858UHG	576-1378-ND	2.5V/3.3V, 3.0GHz Dual 2x2 CML Crosspoint Switch	32-TQFP	10.25	9.23	8.18
SY55859LMG	576-1379-ND	3.3V, 2.7Gbps Dual 2x2 Crosspoint Switch	32-MLF	11.21	10.10	8.96
SY58017UMG	576-1534-5-ND	Ultra Precision CML 2:1 Mux	16-MLF	7.82	6.26	5.28
SY58018UMG	576-1562-5-ND	Ultra Precision LVPECL 2:1 Mux	16-MLF	7.32	5.86	4.95
SY58023UMG	576-1380-ND	Ultra-Low Jitter 2x2 Crosspoint Switch	16-MLF	10.25	9.23	8.18
SY58024UMG	576-1381-ND	Ultra-Low Jitter Dual 2x2 Crosspoint Switch	32-MLF	14.46	13.02	11.55
SY58025UMG	576-1382-ND	Ultra Precision Dual 2:1 CML Mux	32-MLF	9.35	8.42	7.47
SY58026UMG	576-1383-ND	Ultra Precision Dual 2:1 LVPECL Mux	32-MLF	9.35	8.42	7.47
SY58027UMG	576-1384-ND	Ultra Precision Dual 2:1 400mV LVPECL Mux	32-MLF	9.35	8.42	7.47
SY58028UMG	576-1385-ND	Ultra Precision Diff. CML 4:1 Mux	32-MLF	9.65	8.69	7.71
SY58029UMG	576-1386-ND	Ultra Precision Diff. LVPECL 4:1 Mux	32-MLF	9.65	8.69	7.71
SY58030UMG	576-1387-ND	Ultra Precision, 400mV Diff. LVPECL 4:1 Mux	32-MLF	9.65	8.69	7.71
SY58037UMG	576-1394-ND	Ultra Precision 8:1 Mux	44-MLF	11.56	10.41	9.24
SY58038UMG	576-1395-ND	Ultra Precision 8:1 Mux	44-MLF	11.56	10.41	9.24
SY58039UMG	576-1396-ND	Ultra Precision 8:1 Mux	44-MLF	11.56	10.41	9.24
SY58051UMG	576-1398-ND	Ultra Precision CML AnyGate™	16-MLF	8.43	7.59	6.73
SY58052UMG	576-1399-ND	Ultra Precision CML Data and Clock Synchronizer	16-MLF	8.43	7.59	6.73
SY58600UMI TR	576-1536-1-ND	Ultra Precision Differential CML Line Driver/Receiver	8-MLF	5.02	4.02	3.13
SY58600UMYG TR	576-1400-1-ND	Ultra Precision Differential CML Line Driver/Receiver	8-MLF	5.02	4.02	3.13
SY58600UMYG TR	576-1400-2-ND	Ultra Precision Differential CML Line Driver/Receiver	8-MLF	2843.00/1,000		
SY58601UMG TR	576-1401-1-ND	Ultra Precision Differential 800mV LVPECL Line Driver/Receiver	8-MLF	5.02	4.02	3.13
SY58601UMG TR	576-1401-2-ND	Ultra Precision Differential 800mV LVPECL Line Driver/Receiver	8-MLF	2843.00/1,000		
SY58602UMG TR	576-1402-1-ND	Ultra Precision Differential 400mV LVPECL Line Driver/Receiver	8-MLF	5.02	4.02	3.13
SY58602UMG TR	576-1402-2-ND	Ultra Precision Differential 400mV LVPECL Line Driver/Receiver	8-MLF	2843.00/1,000		
SY58603UMG TR	576-1594-1-ND	4.25Gbps Precision 400mV CML Buffer with Fail Safe Input	8-MLF	5.14	4.12	3.47
SY58603UMG TR	576-1594-2-ND	4.25Gbps Precision 400mV CML Buffer with Fail Safe Input	8-MLF	3213.00/1,000		
SY58604UMG TR	576-1595-1-ND	3.2Gbps Precision 800mV LVPECL Buffer with Fail Safe Input	8-MLF	5.14	4.12	3.47
SY58604UMG TR	576-1595-2-ND	3.2Gbps Precision 800mV LVPECL Buffer with Fail Safe Input	8-MLF	3213.00/1,000		
SY58605UMG TR	576-1596-1-ND	3.2Gbps Precision 325mV LVDS Buffer with Fail Safe Input	8-MLF	5.14	4.12	3.47
SY58605UMG TR	576-1596-2-ND	3.2Gbps Precision 325mV LVDS Buffer with Fail Safe Input	8-MLF	3213.00/1,000		
SY58627LMG	576-1470-1-ND	DC to 6.4Gbps Backplane Receiver Buffer	32-MLF	15.21	13.70	12.15
SY58627LMG	576-1470-2-ND	DC to 6.4Gbps Backplane Receiver Buffer	32-MLF	11276.00/1,000		
SY69753ALHG	576-1582-ND	3.3V, 125Mbps Clock/Data Recovery	32-TQFP	15.63	14.59	13.55
SY69753LHG	576-1403-ND	3.3V, 155Mbps Clock/Data Recovery	32-TQFP	15.29	13.77	12.21
SY69754ALHG	576-1583-ND	3.3V, 622Mbps Clock/Data Recovery	32-TQFP	15.00	14.00	13.00
SY87700ALHG	576-1584-ND	LP 3.3V, 208Mbps AnyRate® Clock/Data Recovery	32-TQFP	20.76	19.38	18.00
SY87701ALHG	576-1585-ND	3.3V, 1.3Gbps AnyRate® Clock/ Data Recovery	32-TQFP	30.75	28.70	26.65
SY87701VZH	576-2969-5-ND	5V/3.3V, 32-1250Mbps AnyRate® Clock/Data Recovery ***NEW!***	28-SOIC	27.54	25.71	23.87
SY87724LHEY	576-2985-ND	3.3V AnyRate® Mux/Demux ***NEW!***	80-TQFP	38.88	36.29	33.70
SY87813LHG	576-1586-ND	3.3V, 1.3Gbps AnyRate® Clock/ Data Recovery	32-TQFP	30.89	28.83	26.77
SY88212LMG	576-3062-ND	3.3V, 2.5Gbps Laser Driver ***NEW!***	24-MLF	5.64	4.52	3.81
SY88422LMG	576-2984-ND	3.3V, 4.25Gbps Laser Driver ***NEW!***	16-MLF	6.90	5.52	4.66
SY88982LMG	576-1452-ND	3.3V, 2.7Gbps High Current Low Power Laser Driver	16-MLF	7.72	6.18	5.22
SY88992LMG	576-1475-1-ND	3.3V, 4.25Gbps VCSEL Driver	16-MLF	7.20	5.76	4.86
SY88992LMG	576-1475-2-ND	3.3V, 4.25Gbps VCSEL Driver	16-MLF	2286.00/500		
SY88992LMG	576-2970-5-ND	3.3V, 4.25Gbps VCSEL Driver ***NEW!***	16-MLF	7.20	5.76	4.86
SY89206VMG TR	576-2945-1-ND	3.3V/5V, 1GHz Diff. PECL/ECL Receiver/Buffer ***NEW!***	8-MLF	3.04	2.43	1.89
SY89206VMG TR	576-2945-2-ND	3.3V/5V, 1GHz Diff. PECL/ECL Receiver/Buffer ***NEW!***	8-MLF	1721.00/1,000		
SY89208VMG TR	576-2946-1-ND	3.3V/5V, 3GHz PECL/ECL 2:1 Multiplexer ***NEW!***	8-MLF	3.78	3.03	2.36
SY89208VMG TR	576-2946-2-ND	3.3V/5V, 3GHz PECL/ECL 2:1 Multiplexer ***NEW!***	8-MLF	2142.00/1,000		
SY89222LMG TR	576-2947-1-ND	3.3V, Dual TTL-Differential PECL Translator ***NEW!***	8-MLF	3.26	2.61	2.03
SY89222LMG TR	576-2947-2-ND	3.3V, Dual TTL-Differential PECL Translator ***NEW!***	8-MLF	1849.00/1,000		
SY89223LMG TR	576-3008-1-ND	3.3V Dual Differential LVPECL-to-LVTTL Translator ***NEW!***	8-MLF	3.26	2.61	2.03
SY89223LMG TR	576-3008-2-ND	3.3V Dual Differential LVPECL-to-LVTTL Translator ***NEW!***	8-MLF	9065.00/5,000		
SY89230UMG	576-2964-5-ND	3.2GHz Precision LVPECL Clock Divider ***NEW!***	16-MLF	5.06	4.05	3.42
SY89231UMG	576-2965-5-ND	3.2GHz Precision LVDS Clock Divider ***NEW!***	16-MLF	5.06	4.05	3.42
SY89250VMG TR	576-2948-1-ND	PECL/ECL Receiver/Buffer ***NEW!***	8-MLF	3.65	2.92	2.27
SY89250VMG TR	576-2948-2-ND	PECL/ECL Receiver/Buffer ***NEW!***	8-MLF	2066.00/1,000		
SY89297UMH	576-2991-ND	2.5V, 3.2Gbps CML 2-Channel Programmable Delay ***NEW!***	24-MLF	16.09	14.49	12.85
SY89306VMG TR	576-2949-1-ND	3.3V/5V, 2.5GHz PECL/ECL Differential Receiver/Buffer ***NEW!***	8-MLF22D	3.04	2.43	1.89
SY89306VMG TR	576-2949-2-ND	3.3V/5V, 2.5GHz PECL/ECL Differential Receiver/Buffer ***NEW!***	8-MLF22D	1721.00/1,000		
SY89307VMG TR	576-2950-1-ND	5V/3.3V, 2.5Gbps PECL/ECL Differential Receiver ***NEW!***	8-MLF	3.04	2.43	1.89
SY89307VMG TR	576-2950-2-ND	5V/3.3V, 2.5Gbps PECL/ECL Differential Receiver ***NEW!***	8-MLF	1721.00/1,000		
SY89311UMG TR	576-2951-1-ND	2.5V/3.3V/5V 1:2 Differential PECL/LVPECL/ ECL Fanout Buffer ***NEW!***	8-MLF	3.04	2.43	1.89
SY89311UMG TR	576-2951-2-ND	2.5V/3.3V/5V 1:2 Differential PECL/LVPECL/ ECL Fanout Buffer ***NEW!***	8-MLF	1721.00/1,000		
SY89313VMG TR	576-2952-1-ND	3.3V/5V, 4GHz PECL/ECL /4 Clock Generator ***NEW!***	8-MLF	3.04	2.43	1.89
SY89313VMG TR	576-2952-2-ND	3.3V/5V, 4GHz PECL/ECL /4 Clock Generator ***NEW!***	8-MLF	1721.00/1,000		
SY89316VMG TR	576-2953-1-ND	3.3V/5V, 2.5GHz PECL/ECL Differential Receiver/Buffer ***NEW!***	8-MLF	3.04	2.43	1.89
SY89316VMG TR	576-2953-2-ND	3.3V/5V, 2.5GHz PECL/ECL Differential Receiver/Buffer ***NEW!***	8-MLF	1721.00/1,000		
SY89321LMG TR	576-2954-1-ND	3.3V Differential LVPECL-to-LVTTL Translator ***NEW!***	8-MLF	2.68	2.15	1.67
SY89321LMG TR	576-2954-2-ND	3.3V Differential LVPECl-to-LVTTL Translator ***NEW!***	8-MLF	1517.00/1,000		
SY89323LMG TR	576-2955-1-ND	3.3V, Dual Differential LVPECL-to-LVTTL Translator ***NEW!***	8-MLF	2.68	2.15	1.67
SY89323LMG TR	576-2955-2-ND	3.3V, Dual Differential LVPECL-to-LVTTL Translator ***NEW!***	8-MLF	1517.00/1,000		
SY89325VMG TR	576-1418-1-ND	3.3V/5V 1.5Gbps Diff. CML/PECL/LVPECL-to-LVDS Translator	8-MLF	2.97	2.38	1.85
SY89325VMG TR	576-1418-2-ND	3.3V/5V 1.5Gbps Diff. CML/PECL/LVPECL-to-LVDS Translator	8-MLF	1683.00/1,000		
SY89327LMG TR	576-1419-1-ND	3.3V 2.5Gbps Any Input-to-LVPECL Diff. Translator	8-MLF	3.47	2.78	2.16
SY89327LMG TR	576-1419-2-ND	3.3V 2.5Gbps Any Input-to-LVPECL Diff. Translator	8-MLF	1964.00/1,000		
SY89328LMG TR	576-2956-1-ND	3V, LVTTL-to-Differential LVPECL and Diff. LVPECL-to-LVTTL Translator ***NEW!***	8-MLF	2.68	2.15	1.67
SY89328LMG TR	576-2956-2-ND	3V, LVTTL-to-Differential LVPECL and Diff. LVPECL-to-LVTTL Translator ***NEW!***	8-MLF	1517.00/1,000		
SY89329VMG TR	576-1420-1-ND	3.3V/5V 800MHz LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-MLF	2.68	2.15	1.67
SY89329VMG TR	576-1420-2-ND	3.3V/5V 800MHz LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-MLF	1517.00/1,000		
SY89421VZC	576-1421-ND	5V/3.3V High Performance PLL	20-SOIC	10.33	9.30	8.25
SY89421VZH	576-2119-5-ND	5V/3.3V High Performance PLL ***NEW!***	20-SOIC	12.06	10.86	9.63
SY89429VZH	576-1422-ND	5V/3.3V Programmable Frequency Synthesizer	28-SOIC	8.43	7.59	6.73
SY89850UMG TR	576-2957-1-ND	Precision Low-Power LVPECL Line Driver/Receiver ***NEW!***	8-MLF	2.93	2.34	1.82
SY89850UMG TR	576-2957-2-ND	Precision Low-Power LVPECL Line Driver/Receiver ***NEW!***	8-MLF	845.00/500		
SY89473UMG	576-1453-ND	Precision LVPECL 2:1 Mux	24-MLF	5.06	4.05	3.42

(Continued)

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INTEGRATED CIRCUITS *(Continued)*

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SY89538LHY	576-2992-ND	3.3V, LVPECL/LVDS Programmable Synthesizer/Fanout Buffer ***NEW!***	64-TQFP	22.92	21.40	19.87
SY89542UMG	576-1423-5-ND	2.5V, 3.2Gbps Dual, Differential 2:1 LVDS Mux	32-MLF	5.20	4.16	3.24
SY89543LMG	576-1424-ND	3.3V, 3.2Gbps Dual, Differential 2:1 LVDS Mux	32-MLF	5.20	4.16	3.24
SY89544UMG	576-1425-ND	2.5V, 3.2Gbps Diff. 4:1 LVDS Mux	32-MLF	5.20	4.16	3.51
SY89545LMG	576-1426-ND	3.3V, 3.2Gbps Diff. 4:1 LVDS Mux	32-MLF	5.20	4.16	3.51
SY89546UMG	576-1427-ND	2.5V, 3.2Gbps Diff. 4:1 LVDS Mux	32-MLF	5.56	4.45	3.76
SY89547LMG	576-1428-ND	3.3V, 3.2Gbps Diff. 4:1 LVDS Mux	32-MLF	5.56	4.45	3.76
SY89830UK4G	576-1430-ND	2.5V/3.3/5V 2.5GHz 1:4 PECL/ECL Clock Driver	16-TSSOP	5.22	4.18	3.25
SY89840UMG	576-1434-ND	Precision LVPECL Runt Pulse Eliminator 2:1 Mux	16-MLF	4.07	3.26	2.54
SY89844UMG	576-1454-ND	Precision LVDS Runt Pulse Eliminator 2:1 Mux	24-MLF	4.88	3.91	3.04
SY89845UMG	576-1455-ND	Precision CML Runt Pulse Eliminator 2:1 Mux	24-MLF	4.88	3.91	3.04
SY89859UMG	576-1456-ND	Precision Low Power 8:1 Mux	44-MLF	8.41	7.58	6.72

LATCHED DRIVERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC59P50YWM	576-1312-ND	8-Bit Parallel-Input Protected Latched Driver	24-SOIC	5.11	4.09	3.18
MIC59P60YN	576-1313-ND	8-Bit Parallel-Input Protected Latched Driver	20-Dip	5.20	4.16	3.24
MIC5800YM TR	576-1301-1-ND	4-Bit Parallel-Input Latched Driver	14-SOIC	2.00	1.60	1.20
MIC5800YM TR	576-1301-2-ND	4-Bit Parallel-Input Latched Driver	14-SOIC	2560.00/2,500		
MIC5800YN	576-1302-ND	4-Bit Parallel-Input Latched Driver	14-Dip	2.40	1.92	1.44
MIC5801YN	576-1303-ND	8-Bit Parallel-Input Latched Driver	22-Dip	3.51	2.81	2.19
MIC5801YV	576-1304-ND	8-Bit Parallel-Input Latched Driver	28-PLCC	3.65	2.92	2.27
MIC5801YWM	576-1305-ND	8-Bit Parallel-Input Latched Driver	24-SOIC	3.51	2.81	2.19
MIC5821YN	576-1306-ND	8-Bit Serial-Input Latched Driver	16-Dip	2.90	2.33	1.81
MIC5841YN	576-1307-ND	8-Bit Serial-Input Latched Driver	18-Dip	2.97	2.38	1.85
MIC5841YWM TR	576-1308-1-ND	8-Bit Serial-Input Latched Driver	18-SOIC	2.97	2.38	1.85
MIC5841YWM TR	576-1308-2-ND	8-Bit Serial-Input Latched Driver	18-SOIC	1683.00/1,000		
MIC5842YN	576-1309-ND	8-Bit Serial-Input Latched Driver	18-Dip	3.15	2.52	1.96
MIC5891YN	576-1310-ND	8-Bit Serial-Input Latched Source Driver	16-Dip	2.25	1.80	1.40
MIC5891YWM TR	576-1311-1-ND	8-Bit Serial-Input Latched Source Driver	16-SOIC	2.25	1.80	1.40
MIC5891YWM TR	576-1311-2-ND	8-Bit Serial-Input Latched Source Driver	16-SOIC	1275.00/1,000		

REGULATORS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2574-5.0YN	576-1514-5-ND	52kHz Simple .5A Buck Regulator	8-Dip	2.75	2.20	1.71
LM2574YN	576-1515-5-ND	52kHz Simple .5A Buck Regulator	8-Dip	2.75	2.20	1.71
LM2575-5.0WT	576-1516-5-ND	52kHz Simple 1A Buck Regulator	TO-220-5	2.97	2.38	1.85
LM2575-5.0WU	576-1517-5-ND	52kHz Simple 1A Buck Regulator	TO-263-5	3.13	2.51	1.95
LM2576WT	576-1045-ND	52kHz Simple 3A Buck Regulator	TO-220-5	3.06	2.45	1.91
LM2576WU TR	576-1539-1-ND	52kHz Simple 3A Buck Regulator	TO-263-5	3.22	2.58	2.01
LM2576WU TR	576-1539-2-ND	52kHz Simple 3A Buck Regulator	TO-263-5	1394.25/750		
LM2576-5.0WT	576-1518-5-ND	52kHz Simple 3A Buck Regulator	TO-220-5	3.06	2.45	1.91
MIC2141YM5 TR	576-2597-1-ND	Adj., Micropower Boost Converter ***NEW!***	SOT-23-5	1.85	1.48	1.11
MIC2141YM5 TR	576-2597-2-ND	Adj., Micropower Boost Converter ***NEW!***	SOT-23-5	2841.00/3,000		
MIC2142YM5 TR	576-1062-1-ND	Adj., Micropower Boost Converter	SOT-23-5	1.68	1.34	1.01
MIC2142YM5 TR	576-1062-2-ND	Adj., Micropower Boost Converter	SOT-23-5	2574.00/3,000		
MIC2145YML TR	576-2598-1-ND	High-Efficiency 2.5W Boost Converter ***NEW!***	10-MLF	2.93	2.34	1.82
MIC2145YML TR	576-2598-2-ND	High-Efficiency 2.5W Boost Converter ***NEW!***	10-MLF	8125.00/5,000		
MIC2145YMM TR	576-1540-1-ND	High-Efficiency 2.5W Boost Converter	8-MSOP	2.72	2.18	1.70
MIC2145YMM TR	576-1540-2-ND	High-Efficiency 2.5W Boost Converter	8-MSOP	3812.50/2,500		
MIC2159YMME	576-1588-ND	Adj., High Efficiency 400kHz, Sync. Buck Controller	10-MSOP	3.98	3.19	2.48
MIC2171WU	576-1063-ND	100kHz, 2.5A, Switching Regulator	TO-263-5	4.10	3.28	2.55
MIC2171WU TR	576-1541-1-ND	100kHz, 2.5A, Switching Regulator	TO-263-5	4.10	3.28	2.55
MIC2171WU TR	576-1541-2-ND	100kHz, 2.5A, Switching Regulator	TO-263-5	1774.50/750		
MIC2172YM TR	576-1064-1-ND	100kHz, 1.25A, Switching Regulator	8-SOIC	2.99	2.40	1.87
MIC2172YM TR	576-1064-2-ND	100kHz, 1.25A, Switching Regulator	8-SOIC	4190.00/2,500		
MIC2177YWM	576-1065-ND	Adj., 2.5A Sync. Buck Regulator	20-SOIC	7.16	5.73	4.84
MIC2177YWM TR	576-1543-1-ND	Adj., 2.5A Sync. Buck Regulator	20-WSOP	7.16	5.73	4.84
MIC2177YWM TR	576-1543-2-ND	Adj., 2.5A Sync. Buck Regulator	20-WSOP	4475.00/1,000		
MIC2177-3.3YWM TR	576-1542-1-ND	Adj., 2.5A Sync. Buck Regulator	20-WSOP	7.16	5.73	4.84
MIC2177-3.3YWM TR	576-1542-2-ND	Adj., 2.5A Sync. Buck Regulator	20-WSOP	4475.00/1,000		
MIC2178YWM	576-1066-ND	Adj., 2.5A Sync. Buck Regulator	20-WSOIC	7.16	5.73	4.84
MIC2198YML TR	576-2599-1-ND	500kHz Sync. Buck Controller ***NEW!***	12-MLF	4.28	3.42	2.66
MIC2198YML TR	576-2599-2-ND	500kHz Sync. Buck Controller ***NEW!***	12-MLF	11875.00/5,000		
MIC2202YML TR	576-2600-1-ND	2MHz PWM Sync. Buck Reg. ***NEW!***	10-MLF	2.36	1.89	1.47
MIC2202YML TR	576-2600-2-ND	2MHz PWM Sync. Buck Reg. ***NEW!***	10-MLF	6565.00/5,000		
MIC2206-1.2YML TR	576-2601-1-ND	2MHz PWM Sync. Buck Reg. ***NEW!***	10-MLF	3.11	2.49	1.94
MIC2206-1.2YML TR	576-2601-2-ND	2MHz PWM Sync. Buck Reg. ***NEW!***	10-MLF	8625.00/5,000		
MIC2224YML TR	576-2655-1-ND	2MHz PWM Buck Converter ***NEW!***	10-MLF	3.87	3.10	2.41
MIC2224YML TR	576-2655-2-ND	2MHz PWM Buck Converter ***NEW!***	10-MLF	10750.00/5,000		
MIC2245YML TR	576-1499-1-ND	4MHz PWM Sync. Buck Regulator	10-MLF	2.36	1.89	1.47
MIC2245YML TR	576-1499-2-ND	4MHz PWM Sync. Buck Regulator	10-MLF	6565.00/5,000		
MIC2285YML TR	576-1498-1-ND	8MHz PWM Sync. Buck Regulator	10-MLF	3.04	2.43	1.89
MIC2285YML TR	576-1498-2-ND	8MHz PWM Sync. Buck Regulator	10-MLF	8440.00/5,000		
MIC2295YML TR	576-2658-1-ND	1.2A Boost Regulator ***NEW!***	8-MLF	2.30	1.84	1.38
MIC2295YML TR	576-2658-2-ND	1.2A Boost Regulator ***NEW!***	8-MLF	5750.00/5,000		
MIC2296YD5 TR	576-2659-1-ND	1.2A Boost Regulator ***NEW!***	SOT-23-5	2.08	1.66	1.25
MIC2296YD5 TR	576-2659-2-ND	1.2A Boost Regulator ***NEW!***	SOT-23-5	3186.00/3,000		
MIC2296YML TR	576-2660-1-ND	1.2A Boost Regulator ***NEW!***	8-MLF	2.30	1.84	1.38
MIC2296YML TR	576-2660-2-ND	1.2A Boost Regulator ***NEW!***	8-MLF	5750.00/5,000		
MIC2800-G4MYML TR	568-1500-1-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	.53	.42	.32
MIC2800-G4MYML TR	568-1500-2-ND	Digital Power Management IC 2MHz, 600mA DC/DC	16-MLF	682.50/5,000		
MIC38C43YM	576-1168-ND	BiCMOS 1A Current Mode PWM Controller	8-SOIC	2.15	1.72	1.29
MIC38HC43YM TR	576-1169-1-ND	BiCMOS 1A Current Mode PWM Controller	8-SOIC	2.34	1.88	1.46
MIC38HC43YM TR	576-1169-2-ND	BiCMOS 1A Current Mode PWM Controller	8-SOIC	3275.00/2,500		
MIC38HC45YM	576-1519-5-ND	BiCMOS 1A Current Mode PWM Controller	8-SOIC	2.34	1.88	1.46
MIC2179YSM	576-1067-ND	Adj., 1.5A Sync. Buck Regulator	20-SSOP	6.52	5.22	4.41
MIC2179YSM TR	576-1560-1-ND	Adj., 1.5A Sync. Buck Regulator	20-SSOP	6.52	5.22	4.41
MIC2179YSM TR	576-1560-2-ND	Adj., 1.5A Sync. Buck Regulator	20-SSOP	4075.00/1,000		
MIC2182YM	576-1068-ND	Adj., High-Efficiency Sync. Buck Controller	16-SOIC	4.68	3.75	2.92
MIC2182YSM	576-1069-ND	Adj., High-Efficiency Sync. Buck Controller	16-SSOP	4.88	3.91	3.04
MIC2182YSM TR	576-1544-1-ND	Adj., High-Efficiency Sync. Buck Controller	16-SSOP	4.88	3.91	3.04
MIC2182YSM TR	576-1544-2-ND	Adj., High-Efficiency Sync. Buck Controller	16-SSOP	2767.00/1,000		
MIC2193YM TR	576-1545-1-ND	Adj., 400kHz, Sync. Buck Controller	8-SOIC	3.87	3.10	2.41
MIC2193YM TR	576-1545-2-ND	Adj., 400kHz, Sync. Buck Controller	8-SOIC	5417.50/2,500		
MIC2204YML TR	576-1070-1-ND	Adj., High-Efficiency 2MHz Sync. Buck Controller	10-MLF	2.79	2.24	1.74
MIC2204YML TR	576-1070-2-ND	Adj., High-Efficiency 2MHz Sync. Buck Controller	10-MLF	7750.00/5,000		
MIC2204YMM TR	576-1071-1-ND	Adj., High-Efficiency 2MHz Sync. Buck Controller	10-MSOP	2.59	2.07	1.61
MIC2205YML TR	576-1072-1-ND	Adj., 2MHz PWM Sync. Buck Reg.	10-MLF	2.36	1.89	1.47
MIC2205YML TR	576-1072-2-ND	Adj., 2MHz PWM Sync. Buck Reg.	10-MLF	6565.00/5,000		
MIC2207YML TR	576-1441-1-ND	2MHz, 3A PWM Buck Regulator	12-MLF	3.26	2.61	2.03
MIC2207YML TR	576-1441-2-ND	2MHz, 3A PWM Buck Regulator	12-MLF	9065.00/5,000		
MIC2230-AAYML TR	576-3027-1-ND	Adj. Dual Synchronous Step-Down DC/DC Regulator ***NEW!***	12-MLF	3.58	2.87	2.23
MIC2230-AAYML TR	576-3027-2-ND	Adj. Dual Synchronous Step-Down DC/DC Regulator ***NEW!***	12-MLF	9940.00/5,000		
MIC2230-GFHYML TR	576-3030-1-ND	1.8V/1.575V Dual Synchronous Step-Down DC/DC Regulator ***NEW!***	12-MLF	3.58	2.87	2.23
MIC2230-GFHYML TR	576-3030-2-ND	1.8V/1.575V Dual Synchronous Step-Down DC/DC Regulator ***NEW!***	12-MLF	9940.00/5,000		
MIC2238-AAYML TR	576-1646-1-ND	Dual Sync. 800mA Step-Down DC/DC Regulator	12-MLF	3.47	2.78	2.16
MIC2238-AAYML TR	576-1646-2-ND	Dual Sync. 800mA Step-Down DC/DC Regulator	12-MLF	9625.00/5,000		
MIC2285AYMT TR	576-2973-1-ND	8MHz PWM Synchronous Buck Regulator ***NEW!***	10-MLF	1.88	1.50	1.13
MIC2285AYMT TR	576-2973-2-ND	8MHz PWM Synchronous Buck Regulator ***NEW!***	10-MLF	4690.00/5,000		
MIC2288YML TR	576-1075-1-ND	Adj., 1A, 1.2MHz PWM Boost Reg.	8-MLF	1.78	1.42	1.07
MIC2288YML TR	576-1075-2-ND	Adj., 1A, 1.2MHz PWM Boost Reg.	8-MLF	4440.00/5,000		
MIC2290YML TR	576-1076-1-ND	Adj., 2x2mm PWM Boost Regulator	8-MLF	2.10	1.68	1.26
MIC2292-15YML TR	576-1078-1-ND	15V, 1.6MHz High Frequency PWM	8-MLF	1.85	1.48	1.11
MIC2292-15YML TR	576-1078-2-ND	15V, 1.6MHz High Frequency PWM	8-MLF	4625.00/5,000		
MIC2295YD5 TR	576-1080-1-ND	High Power Density 1.2A Boost Reg.	5-TSOT	2.08	1.66	1.25
MIC3172YM	576-1160-ND	100kHz, 1.25A, Switching Regulator	8-SOIC	2.99	2.40	1.87
MIC4043YM4 TR	576-2715-1-ND	Low Voltage Shunt Regulator ***NEW!***	SOT-143	.90	.75	.60
MIC4043YM4 TR	576-2715-2-ND	Low Voltage Shunt Regulator ***NEW!***	SOT-143	1170.00/3,000		
MIC4574-5.0YN	576-1561-5-ND	200kHz Simple .5A Buck Regulator	8-Dip	3.02	2.42	1.88
MIC4575-5.0WT	576-1531-5-ND	5V, 200kHz Simple 1A Buck Reg.	TO-220-5	3.26	2.61	2.03
MIC4575-5.0WU	576-1216-ND	5V, 200kHz Simple 1A Buck Reg.	TO-263-5	3.42	2.74	2.13
MIC4575-5.0WU TR	576-1549-1-ND	5V, 200kHz Simple 1A Buck Reg.	TO-263-5	3.42	2.74	2.13
MIC4575-5.0WU TR	576-1549-2-ND	5V, 200kHz Simple 1A Buck Reg.	TO-263-5	1482.00/750		
MIC4575WU	576-1217-ND	Adj., 200kHz Simple 1A Buck Reg.	TO-263-5	3.42	2.74	2.13
MIC4575WU TR	576-1550-1-ND	Adj., 200kHz Simple 1A Buck Reg.	TO-263-5	3.42	2.74	2.13
MIC4575WU TR	576-1550-2-ND	Adj., 200kHz Simple 1A Buck Reg.	TO-263-5	1482.00/750		
MIC4576WT	576-1218-ND	Adj., 200kHz Simple 3A Buck Reg.	TO-220-5	3.38	2.70	2.10
MIC4576WU TR	576-1219-1-ND	Adj., 200kHz Simple 3A Buck Reg.	TO-263-5	3.53	2.83	2.20
MIC4576WU TR	576-1219-2-ND	Adj., 200kHz Simple 3A Buck Reg.	TO-263-5	1530.75/750		
MIC4576-3.3WU	576-1532-5-ND	Adj., 200kHz Simple 3A Buck Reg.	TO-263-5	3.53	2.83	2.20
MIC4576-3.3WU TR	576-1551-1-ND	Adj., 200kHz Simple 3A Buck Reg.	TO-263-5	3.53	2.83	2.20
MIC4576-3.3WU TR	576-1551-2-ND	Adj., 200kHz Simple 3A Buck Reg.	TO-263-5	1530.75/750		
MIC4680-3.3YM	576-1220-ND	3.3V, 1A, 200kHz SuperSwitcher™ Buck Regulator	8-SOIC	3.17	2.54	1.98
MIC4680-3.3YM TR	576-1552-1-ND	3.3V, 1A, 200kHz SuperSwitcher™ Buck Regulator	8-SOIC	3.58	2.87	2.23
MIC4680-3.3YM TR	576-1552-2-ND	3.3V, 1A, 200kHz SuperSwitcher™ Buck Regulator	8-SOIC	4442.50/2,500		
MIC4680-5.0YM TR	576-1221-1-ND	5V, 1A, 200kHz SuperSwitcher™ Buck Regulator	8-SOIC	3.17	2.54	1.98
MIC4680-5.0YM TR	576-1221-2-ND	5V, 1A, 200kHz SuperSwitcher™ Buck Regulator	8-SOIC	4442.50/2,500		
MIC4680YM TR	576-1222-1-ND	Adj., 1A, 200kHz SuperSwitcher™ Buck Regulator	8-SOIC	3.17	2.54	1.98
MIC4680YM TR	576-1222-2-ND	Adj., 1A, 200kHz SuperSwitcher™ Buck Regulator	8-SOIC	4442.50/2,500		
MIC4684YM	576-1223-ND	Adj., 2A High-Efficiency SuperSwitcher™ Buck Regulator	8-SOIC	3.51	2.81	2.19
MIC4684YM TR	576-1553-1-ND	Adj., 2A High-Efficiency SuperSwitcher™ Buck Regulator	8-SOP	3.96	3.17	2.47
MIC4684YM TR	576-1553-2-ND	Adj., 2A High-Efficiency SuperSwitcher™ Buck Regulator	8-SOP	4915.00/2,500		
MIC4685WR	576-1224-ND	Adj., 3A SPAK SuperSwitcher™ Buck Regulator	7-SPAK	4.07	3.26	2.54
MIC4685WR TR	576-1554-1-ND	Adj., 3A SPAK SuperSwitcher™ Buck Regulator	7-SPAK	4.48	3.59	2.79
MIC4685WR TR	576-1554-2-ND	Adj., 3A SPAK SuperSwitcher™ Buck Regulator	7-SPAK	1764.75/750		
MIC4690YM	576-1225-ND	Adj., 500kHz, 1A SuperSwitcher™ Buck Regulator	8-SOIC	3.44	2.76	2.15
MIC4720YML TR	576-2720-1-ND	2A, 2MHz, Integrated Switch Buck Regulator ***NEW!***	12-MLF	2.84	2.27	1.77

(Continued)

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REGULATORS *(Continued)*
RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC4720YML TR	576-2720-2-ND	2A, 2MHz, Integrated Switch Buck Regulator ***NEW!***	12-MLF	7875.00/5,000		
MIC4720YMME	576-1654-5-ND	2A, 2MHz, Integrated Switch Buck Regulator	10-MSOP	3.02	2.42	1.88
MIC4721YMM	576-1655-5-ND	1.5A, 2MHz, Integrated Switch Buck Regulator	10-MSOP	2.45	1.97	1.53
MIC4722YML TR	576-1591-1-ND	3A, 2.7MHz, PWM Buck Regulator	12-MLF	3.47	2.78	2.16
MIC4722YML TR	576-1591-2-ND	3A, 2.7MHz, PWM Buck Regulator	12-MLF	9625.00/5,000		
MIC4723YML TR	576-1656-1-ND	3A, 2MHz Integrated Switch Buck Regulator	12-MLF	3.11	2.49	1.94
MIC4723YML TR	576-1656-2-ND	3A, 2MHz Integrated Switch Buck Regulator	12-MLF	8625.00/5,000		
MIC5225-1.5YM5 TR	576-3013-1-ND	1.5V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5225-1.5YM5 TR	576-3013-2-ND	1.5V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5225-1.8YM5 TR	576-3017-1-ND	1.8V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5225-1.8YM5 TR	576-3017-2-ND	1.8V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5225-2.5YM5 TR	576-3005-1-ND	2.5V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5225-2.5YM5 TR	576-3005-2-ND	2.5V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5225-2.7YM5 TR	576-2978-1-ND	2.7V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5225-2.7YM5 TR	576-2978-2-ND	2.7V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5225-3.0YM5 TR	576-2979-1-ND	3.0V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5225-3.0YM5 TR	576-2979-2-ND	3.0V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5225-3.3YM5 TR	576-2980-1-ND	3.3V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5225-3.3YM5 TR	576-2980-2-ND	3.3V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5225-5.0YM5 TR	576-2999-1-ND	5.0V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5225-5.0YM5 TR	576-2999-2-ND	5.0V High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5225YM5 TR	576-2998-1-ND	Adj. High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5225YM5 TR	576-2998-2-ND	Adj. High Input Voltage, Low IQ Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC22600YML TR	576-3003-1-ND	1MHz, 6A Integrated Switch Synchronous Buck Regulator ***NEW!***	24-MLF	5.33	4.27	3.32
MIC22600YML TR	576-3003-2-ND	1MHz, 6A Integrated Switch Synchronous Buck Regulator ***NEW!***	24-MLF	14815.00/5,000		
MIC23050-GYML TR	576-2974-1-ND	4MHz, PWM Buck Reg. with HYPER LIGHT LOAD™ ***NEW!***	8-MLF	2.13	1.70	1.28
MIC23050-GYML TR	576-2974-2-ND	4MHz, PWM Buck Reg. with HYPER LIGHT LOAD™ ***NEW!***	8-MLF	5315.00/5,000		
MIC23050-4YML TR	576-1647-1-ND	4MHz, PWM Buck Reg. with HYPER LIGHT LOAD™	8-MLF	2.13	1.70	1.28
MIC23050-4YML TR	576-1647-2-ND	4MHz, PWM Buck Reg. with HYPER LIGHT LOAD™	8-MLF	5315.00/5,000		
MIC23051-16YML TR	576-1648-1-ND	4MHz, PWM Buck Reg. with HYPER LIGHT LOAD™	8-MLF	2.30	1.84	1.38
MIC23051-16YML TR	576-1648-2-ND	4MHz, PWM Buck Reg. with HYPER LIGHT LOAD™	8-MLF	5750.00/5,000		
MIC23051-945YML TR	576-3022-1-ND	4MHz, PWM Buck Reg. with HYPER LIGHT LOAD™ ***NEW!***	8-MLF	2.30	1.84	1.38
MIC23051-945YML TR	576-3022-2-ND	4MHz, PWM Buck Reg. with HYPER LIGHT LOAD™ ***NEW!***	8-MLF	5750.00/5,000		
MIC23051-C4YML TR	576-3011-1-ND	4MHz, PWM Buck Reg. with HYPER LIGHT LOAD™ ***NEW!***	8-MLF	2.30	1.84	1.38
MIC23051-C4YML TR	576-3011-2-ND	4MHz, PWM Buck Reg. with HYPER LIGHT LOAD™ ***NEW!***	8-MLF	5750.00/5,000		
MIC23051-CGYML TR	576-3015-1-ND	4MHz, PWM Buck Reg. with HYPER LIGHT LOAD™ ***NEW!***	8-MLF	2.30	1.84	1.38
MIC23051-CGYML TR	576-3015-2-ND	4MHz, PWM Buck Reg. with HYPER LIGHT LOAD™ ***NEW!***	8-MLF	5750.00/5,000		
MIC23250-G4YMT TR	576-3034-1-ND	4MHz, Dual 400mA Sync. Buck Reg. with HYPER LIGHT LOAD™ ***NEW!***	10-MLF	2.72	2.18	1.70
MIC23250-G4YMT TR	576-3034-2-ND	4MHz, Dual 400mA Sync. Buck Reg. with HYPER LIGHT LOAD™ ***NEW!***	10-MLF	7565.00/5,000		
MIC23250-GFHYMT TR	576-3025-1-ND	4MHz, Dual 400mA Sync. Buck Reg. with HYPER LIGHT LOAD™ ***NEW!***	10-MLF	2.72	2.18	1.70
MIC23250-GFHYMT TR	576-3025-2-ND	4MHz, Dual 400mA Sync. Buck Reg. with HYPER LIGHT LOAD™ ***NEW!***	10-MLF	7565.00/5,000		
MIC33050-4YHL TR	576-3044-1-ND	4MHz, PWM Buck Regulator with HYPER LIGHT LOAD™ ***NEW!***	12-MLF	4.01	3.21	2.50
MIC33050-4YHL TR	576-3044-2-ND	4MHz, PWM Buck Regulator with HYPER LIGHT LOAD™ ***NEW!***	12-MLF	11125.00/5,000		
MIC33050-GYHL TR	576-3040-1-ND	4MHz, PWM Buck Regulator with HYPER LIGHT LOAD™ ***NEW!***	12-MLF	4.01	3.21	2.50
MIC33050-GYHL TR	576-3040-2-ND	4MHz, PWM Buck Regulator with HYPER LIGHT LOAD™ ***NEW!***	12-MLF	11125.00/5,000		

LDO REGULATORS
RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP2950-03YZ TR	576-1050-1-ND	5V, 100mA Low Dropout Volt. Reg.	TO-92	1.20	1.00	.80
LP2950-03YZ TR	576-1050-2-ND	5V, 100mA Low Dropout Volt. Reg.	TO-92	1064.00/2,000		
LP2951-02YM	576-1051-ND	Adj., 100mA Low Dropout Volt. Reg.	8-SOIC	1.11	.93	.74
LP2951-03YM	576-1052-ND	Adj., 100mA Low Dropout Volt. Reg.	8-SOIC	1.02	.85	.68
MIC2211-AAYML TR	576-2602-1-ND	Adj. Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-AAYML TR	576-2602-2-ND	Adj. Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-DLYML TR	576-2603-1-ND	1.85V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-DLYML TR	576-2603-2-ND	1.85V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-FMYML TR	576-2604-1-ND	1.5V/2.8V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-FMYML TR	576-2604-2-ND	1.5V/2.8V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-GJYML TR	576-2605-1-ND	1.8V/2.5V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-GJYML TR	576-2605-2-ND	1.8V/2.5V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-GKYML TR	576-2606-1-ND	1.8V/2.6V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-GKYML TR	576-2606-2-ND	1.8V/2.6V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-GMYML TR	576-2607-1-ND	1.8V/2.8V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-GMYML TR	576-2607-2-ND	1.8V/2.8V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-GOYML TR	576-2608-1-ND	1.8V/2.9V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-GOYML TR	576-2608-2-ND	1.8V/2.9V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-GPYML TR	576-2609-1-ND	1.8V/3.0V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-GPYML TR	576-2609-2-ND	1.8V/3.0V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-GSYML TR	576-2610-1-ND	1.8V/3.3V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-GSYML TR	576-2610-2-ND	1.8V/3.3V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-JGYML TR	576-2611-1-ND	2.5V/1.8V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-JGYML TR	576-2611-2-ND	2.5V/1.8V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-JPYML TR	576-2612-1-ND	2.5V/3.0V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-JPYML TR	576-2612-2-ND	2.5V/3.0V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-JYYML TR	576-2613-1-ND	2.5V/1.9V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-JYYML TR	576-2613-2-ND	2.5V/1.9V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-KNYML TR	576-2614-1-ND	2.6V/1.85V Dual LDO Reg. ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-KNYML TR	576-2614-2-ND	2.6V/1.85V Dual LDO Reg. ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-LGYML TR	576-2615-1-ND	2.7V/1.8V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-LGYML TR	576-2615-2-ND	2.7V/1.8V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-MFYML TR	576-2616-1-ND	2.8V/1.5V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-MFYML TR	576-2616-2-ND	2.8V/1.5V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-MGYML TR	576-2617-1-ND	2.8V/1.8V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-MGYML TR	576-2617-2-ND	2.8V/1.8V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-MMYML TR	576-2618-1-ND	2.8V/2.8V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-MMYML TR	576-2618-2-ND	2.8V/2.8V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-MSYML TR	576-2619-1-ND	2.8V/3.3V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-MSYML TR	576-2619-2-ND	2.8V/3.3V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-NNYML TR	576-2620-1-ND	2.85V/2.85V Dual LDO Reg. ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-NNYML TR	576-2620-2-ND	2.85V/2.85V Dual LDO Reg. ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-NSYML TR	576-2621-1-ND	2.85V/3.3V Dual LDO Reg. ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-NSYML TR	576-2621-2-ND	2.85V/3.3V Dual LDO Reg. ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-OFYML TR	576-2622-1-ND	2.9V/1.5V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-OFYML TR	576-2622-2-ND	2.9V/1.5V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-OOYML TR	576-2623-1-ND	2.9V/2.9V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-OOYML TR	576-2623-2-ND	2.9V/2.9V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-PMYML TR	576-2624-1-ND	3.0V/2.8V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-PMYML TR	576-2624-2-ND	3.0V/2.8V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-PPYML TR	576-2625-1-ND	3.0V/3.0V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-PPYML TR	576-2625-2-ND	3.0V/3.0V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-PSYML TR	576-2626-1-ND	3.0V/3.3V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-PSYML TR	576-2626-2-ND	3.0V/3.3V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-SGYML TR	576-2627-1-ND	3.3V/1.8V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-SGYML TR	576-2627-2-ND	3.3V/1.8V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-SMYML TR	576-2628-1-ND	3.3V/2.8V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-SMYML TR	576-2628-2-ND	3.3V/2.8V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-SSYML TR	576-2629-1-ND	3.3V/3.3V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-SSYML TR	576-2629-2-ND	3.3V/3.3V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2211-WSYML TR	576-2630-1-ND	1.6V/3.3V Dual LDO Regulator ***NEW!***	10-MLF	1.33	1.06	.80
MIC2211-WSYML TR	576-2630-2-ND	1.6V/3.3V Dual LDO Regulator ***NEW!***	10-MLF	3315.00/5,000		
MIC2212-DNYML TR	576-2631-1-ND	1.85V/2.85V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	1.63	1.30	.98
MIC2212-DNYML TR	576-2631-2-ND	1.85V/2.85V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	4065.00/5,000		
MIC2212-DOYML TR	576-2632-1-ND	1.85V/2.9V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	1.63	1.30	.98
MIC2212-DOYML TR	576-2632-2-ND	1.85V/2.9V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	4065.00/5,000		
MIC2212-GKYML TR	576-2633-1-ND	1.8V/2.6V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	1.63	1.30	.98
MIC2212-GKYML TR	576-2633-2-ND	1.8V/2.6V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	4065.00/5,000		
MIC2212-GMYML TR	576-2634-1-ND	1.8V/2.8V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	1.63	1.30	.98
MIC2212-GMYML TR	576-2634-2-ND	1.8V/2.8V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	4065.00/5,000		
MIC2212-GPYML TR	576-2635-1-ND	3.0V Dual µCap LDO Regulator ***NEW!***	10-MLF	1.63	1.30	.98
MIC2212-GPYML TR	576-2635-2-ND	3.0V Dual µCap LDO Regulator ***NEW!***	10-MLF	4065.00/5,000		
MIC2212-JSYML TR	576-2636-1-ND	2.5V/3.3V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	1.63	1.30	.98
MIC2212-JSYML TR	576-2636-2-ND	2.5V/3.3V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	4065.00/5,000		
MIC2212-KMYML TR	576-2637-1-ND	2.6V/2.8V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	1.63	1.30	.98
MIC2212-KMYML TR	576-2637-2-ND	2.6V/2.8V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	4065.00/5,000		
MIC2212-MKYML TR	576-2638-1-ND	2.8V/2.6V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	1.63	1.30	.98
MIC2212-MKYML TR	576-2638-2-ND	2.8V/2.6V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	4065.00/5,000		
MIC2212-MMYML TR	576-2639-1-ND	2.8V/2.8V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	1.63	1.30	.98
MIC2212-MMYML TR	576-2639-2-ND	2.8V/2.8V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	4065.00/5,000		
MIC2212-MPYML TR	576-2640-1-ND	2.8V/3.0V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	1.63	1.30	.98
MIC2212-MPYML TR	576-2640-2-ND	2.8V/3.0V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	4065.00/5,000		
MIC2212-PMYML TR	576-2641-1-ND	3.0V/2.8V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	1.63	1.30	.98
MIC2212-PMYML TR	576-2641-2-ND	3.0V/2.8V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	4065.00/5,000		
MIC2212-SMYML TR	576-2642-1-ND	3.3V/2.8V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	1.63	1.30	.98
MIC2212-SMYML TR	576-2642-2-ND	3.3V/2.8V Dual LDO Regulator with Power-On Reset ***NEW!***	10-MLF	4065.00/5,000		
MIC2214-AAYML TR	576-2643-1-ND	Adj. Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	16-MLF	1.68	1.34	1.01
MIC2214-AAYML TR	576-2643-2-ND	Adj. Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	16-MLF	4190.00/5,000		
MIC2214-DKYML TR	576-2644-1-ND	1.85V/2.6V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	1.68	1.34	1.01

(Continued)

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2214-DKYML TR	576-2644-2-ND	1.85V/2.6V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	4190.00/5,000		
MIC2214-FMYML TR	576-2645-1-ND	1.5V/2.8V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	1.68	1.34	1.01
MIC2214-FMYML TR	576-2645-2-ND	1.5V/2.8V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	4190.00/5,000		
MIC2214-GKYML TR	576-2646-1-ND	1.8V/2.6V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	1.68	1.34	1.01
MIC2214-GKYML TR	576-2646-2-ND	1.8V/2.6V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	4190.00/5,000		
MIC2214-GMYML TR	576-2647-1-ND	1.8V/2.8V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	1.68	1.34	1.01
MIC2214-GMYML TR	576-2647-2-ND	1.8V/2.8V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	4190.00/5,000		
MIC2214-GPYML TR	576-2648-1-ND	1.8V/3.0V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	1.68	1.34	1.01
MIC2214-GPYML TR	576-2648-2-ND	1.8V/3.0V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	4190.00/5,000		
MIC2214-JGYML TR	576-2649-1-ND	2.5V/1.8V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	1.68	1.34	1.01
MIC2214-JGYML TR	576-2649-2-ND	2.5V/1.8V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	4190.00/5,000		
MIC2214-KNYML TR	576-2650-1-ND	2.6V/2.85V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	1.68	1.34	1.01
MIC2214-KNYML TR	576-2650-2-ND	2.6V/2.85V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	4190.00/5,000		
MIC2214-PSYML TR	576-2651-1-ND	3.0V/3.3V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	1.68	1.34	1.01
MIC2214-PSYML TR	576-2651-2-ND	3.0V/3.3V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	4190.00/5,000		
MIC2214-SGYML TR	576-2652-1-ND	3.3V/1.8V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	1.68	1.34	1.01
MIC2214-SGYML TR	576-2652-2-ND	3.3V/1.8V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	4190.00/5,000		
MIC2214-SWYML TR	576-2653-1-ND	3.3V/1.6V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	1.68	1.34	1.01
MIC2214-SWYML TR	576-2653-2-ND	3.3V/1.6V Dual LDO Regulator with Open-Drain and Power-On Reset ***NEW!***	10-MLF	4190.00/5,000		
MIC2215-AAAYML TR	576-2654-1-ND	Adj. Triple High PSRR, Low Noise LDO Regulator ***NEW!***	16-MLF	2.52	2.02	1.57
MIC2215-AAAYML TR	576-2654-2-ND	Adj. Triple High PSRR, Low Noise LDO Regulator ***NEW!***	16-MLF	7000.00/5,000		
MIC2215-PPMYML TR	576-1073-1-ND	Triple High PSRR, Low Noise LDO Regulator	16-MLF	2.52	2.02	1.57
MIC2215-PPMYML TR	576-1073-2-ND	Triple High PSRR, Low Noise LDO Regulator	16-MLF	7000.00/5,000		
MIC2215-PPPYML TR	576-1074-1-ND	Triple High PSRR, Low Noise LDO Regulator	16-MLF	2.52	2.02	1.57
MIC2215-PPPYML TR	576-1074-2-ND	Triple High PSRR, Low Noise LDO Regulator	16-MLF	7000.00/5,000		
MIC2225-4MYMT TR	576-3024-1-ND	2MHz 600mA Sync. Buck Regulator with 300mA LDO ***NEW!***	10-MLF	2.35	1.88	1.41
MIC2225-4MYMT TR	576-3024-2-ND	2MHz 600mA Sync. Buck Regulator with 300mA LDO ***NEW!***	10-MLF	5875.00/5,000		
MIC2225-4SYMT TR	576-3021-1-ND	2MHz 600mA Sync. Buck Regulator with 300mA LDO ***NEW!***	10-MLF	2.35	1.88	1.41
MIC2225-4SYMT TR	576-3021-2-ND	2MHz 600mA Sync. Buck Regulator with 300mA LDO ***NEW!***	10-MLF	5875.00/5,000		
MIC2238-GFHYML TR	576-2972-1-ND	2.5MHz Dual Phase PWM Buck Regulator ***NEW!***	12-MLF	3.47	2.78	2.16
MIC2238-GFHYML TR	576-2972-2-ND	2.5MHz Dual Phase PWM Buck Regulator ***NEW!***	12-MLF	9625.00/5,000		
MIC2920A-3.3WS TR	576-1116-1-ND	3.3V, 400mA LDO Voltage Reg.	SOT-223	2.43	1.94	1.46
MIC2920A-3.3WS TR	576-1116-2-ND	3.3V, 400mA LDO Voltage Reg.	SOT-223	3105.00/2,500		
MIC2920A-5.0WS TR	576-1117-1-ND	5V, 400mA LDO Voltage Reg.	SOT-223	2.43	1.94	1.46
MIC2920A-5.0WS TR	576-1117-2-ND	5V, 400mA LDO Voltage Reg.	SOT-223	3105.00/2,500		
MIC2937A-3.3WU	576-1131-ND	3.3V, 750mA LDO Voltage Reg.	TO-263	2.25	1.80	1.40
MIC2937A-5.0WT	576-1132-ND	5V, 750mA LDO Voltage Reg.	TO-220	2.25	1.80	1.40
MIC2937A-5.0WU	576-1133-ND	5V, 750mA LDO Voltage Reg.	TO-263	2.25	1.80	1.40
MIC2940A-3.3WT	576-1134-ND	3.3V, 1.25A LDO Voltage Reg.	TO-220	2.38	1.90	1.43
MIC2940A-3.3WU	576-1135-ND	3.3V, 1.25A LDO Voltage Reg.	TO-263	2.38	1.90	1.43
MIC2940A-5.0WT	576-1136-ND	5V, 1.25A LDO Voltage Reg.	TO-220	2.38	1.90	1.43
MIC2940A-5.0WU	576-1137-ND	5V, 1.25A LDO Voltage Reg.	TO-263	2.38	1.90	1.43
MIC2941AWT	576-1138-ND	Adj., 1.25A LDO Voltage Reg.	TO-220-5	2.54	2.04	1.59
MIC2941AWU TR	576-1139-1-ND	Adj., 1.25A LDO Voltage Reg.	TO-263-5	2.54	2.04	1.59
MIC2941AWU TR	576-1139-2-ND	Adj., 1.25A LDO Voltage Reg.	TO-263-5	1101.75/750		
MIC2950-05YZ	576-1140-ND	5V, 150mA LDO Voltage Reg.	TO-92	1.35	1.08	.81
MIC2950-06YZ TR	576-1141-1-ND	5V, 150mA LDO Voltage Reg.	TO-92	1.28	1.02	.77
MIC2950-06YZ TR	576-1141-2-ND	5V, 150mA LDO Voltage Reg.	TO-92	1326.00/2,000		
MIC2951-02YM TR	576-1148-1-ND	5V, 250mA Low Dropout Reg.	8-SOIC	1.20	1.00	.80
MIC2951-02YM TR	576-1148-2-ND	5V, 150mA Low Dropout Reg.	8-SOIC	1300.00/2,500		
MIC2951-03YM TR	576-1149-1-ND	5V, 250mA Low Dropout Reg.	8-SOIC	1.14	.95	.76
MIC2951-03YM TR	576-1149-2-ND	5V, 150mA Low Dropout Reg.	8-SOIC	1235.00/2,500		
MIC2951-03YN	576-1150-ND	5V, 150mA Low Dropout Reg.	8-Dip	1.35	1.13	.90
MIC2951-3.3YM	576-1151-ND	3.3V, 150mA Low Dropout Reg.	8-SOIC	.95	.76	.57
MIC2954-02WS	576-1152-ND	5V, 250mA Low Dropout Reg.	SOT-223	1.80	1.44	1.08
MIC2954-03WS TR	576-1154-1-ND	5V, 250mA Low Dropout Reg.	SOT-223	1.60	1.28	.96
MIC2954-03WS TR	576-1154-2-ND	5V, 250mA Low Dropout Reg.	SOT-223	2047.50/2,500		
MIC2954-07YM	576-1155-ND	5V, 250mA Low Dropout Reg.	8-SOIC	1.78	1.42	1.07
MIC2954-08YM TR	576-1156-1-ND	5V, 250mA Low Dropout Reg.	8-SOIC	1.48	1.18	.89
MIC2954-08YM TR	576-1156-2-ND	5V, 250mA Low Dropout Reg.	8-SOIC	1887.50/2,500		
MIC3385YHL TR	576-2714-1-ND	8MHz Inductorless LDO Buck Regulator ***NEW!***	14-MLF	3.44	2.76	2.15
MIC3385YHL TR	576-2714-2-ND	8MHz Inductorless LDO Buck Regulator ***NEW!***	14-MLF	9565.00/5,000		
MIC5158YM	576-1243-ND	5V/Adj., Super LDO™ Reg.	14-SOIC	3.58	2.87	2.23
MIC5159YM6 TR	576-2721-1-ND	Adj., Programmable Current Limit µCap LDO Regulator Controller ***NEW!***	SOT-23-6	1.48	1.18	.89
MIC5159YM6 TR	576-2721-2-ND	Adj., Programmable Current Limit µCap LDO Regulator Controller ***NEW!***	SOT-23-6	2265.00/3,000		
MIC5159-1.8YM6 TR	576-3029-1-ND	1.8V, Programmable Current Limit µCap LDO Regulator Controller ***NEW!***	SOT-23-6	1.48	1.18	.89
MIC5159-1.8YM6 TR	576-3029-2-ND	1.8V, Programmable Current Limit µCap LDO Regulator Controller ***NEW!***	SOT-23-6	2265.00/3,000		
MIC5190YMM	576-1244-ND	Adj., Ultra High-Speed High Current Active Filter/LDO Controller	10-MSOP	4.79	3.84	2.99
MIC5191YML TR	576-2722-1-ND	Adj., Ultra High-Speed High Current Active Filter/LDO Controller ***NEW!***	10-MLF	5.02	4.02	3.13
MIC5191YML TR	576-2722-2-ND	Adj., Ultra High-Speed High Current Active Filter/LDO Controller ***NEW!***	10-MLF	13940.00/5,000		
MIC5191YMM	576-1245-ND	Adj., Ultra High-Speed High Current Active Filter/LDO Controller	10-MSOP	5.02	4.02	3.13
MIC5200-3.3YM	576-1246-ND	3.3V, 100mA Low Dropout Reg.	8-SOIC	1.68	1.34	1.01
MIC5200-3.3YS	576-1247-ND	3.3V, 100mA Low Dropout Reg.	SOT-223	1.90	1.52	1.14
MIC5200-5.0YM	576-1248-ND	5V, 100mA Low Dropout Reg.	8-SOIC	1.68	1.34	1.01
MIC5200-5.0YS TR	576-1249-1-ND	5V, 100mA Low Dropout Reg.	SOT-223	1.90	1.52	1.14
MIC5200-5.0YS TR	576-1249-2-ND	5V, 100mA Low Dropout Reg.	SOT-223	2432.50/2,500		
MIC5201-3.3YM TR	576-1250-1-ND	3.3V, 200mA Low Dropout Reg.	8-SOIC	2.00	1.60	1.20
MIC5201-3.3YM TR	576-1250-2-ND	3.3V, 200mA Low Dropout Reg.	8-SOIC	2560.00/2,500		
MIC5201-3.3YS TR	576-1251-1-ND	3.3V, 200mA Low Dropout Reg.	SOT-223	2.23	1.78	1.34
MIC5201-3.3YS TR	576-1251-2-ND	3.3V, 200mA Low Dropout Reg.	SOT-223	2847.50/2,500		
MIC5201-4.8YS	576-1252-ND	4.85V, 200mA Low Dropout Reg.	SOT-223	2.23	1.78	1.34
MIC5201-5.0YM	576-1253-ND	5V, 200mA Low Dropout Reg.	8-SOIC	2.00	1.60	1.20
MIC5201-5.0YS	576-1254-ND	5V, 200mA Low Dropout Reg.	SOT-223	2.23	1.78	1.34
MIC5203-2.6YM5 TR	576-2723-1-ND	2.6V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	.84	.63	.48
MIC5203-2.6YM5 TR	576-2723-2-ND	2.6V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	819.00/3,000		
MIC5203-2.8YM4 TR	576-2724-1-ND	2.8V, µCap 80mA LDO Reg. ***NEW!***	SOT-143	1.08	.90	.72
MIC5203-2.8YM4 TR	576-2724-2-ND	2.8V, µCap 80mA LDO Reg. ***NEW!***	SOT-143	1404.00/3,000		
MIC5203-2.8YM5 TR	576-2725-1-ND	2.8V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	.84	.63	.48
MIC5203-2.8YM5 TR	576-2725-2-ND	2.8V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	819.00/3,000		
MIC5203-3.0YM4 TR	576-2726-1-ND	3.0V, µCap 80mA LDO Reg. ***NEW!***	SOT-143	1.08	.90	.72
MIC5203-3.0YM4 TR	576-2726-2-ND	3.0V, µCap 80mA LDO Reg. ***NEW!***	SOT-143	1404.00/3,000		
MIC5203-3.0YM5 TR	576-2727-1-ND	3.0V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	.84	.63	.48
MIC5203-3.0YM5 TR	576-2727-2-ND	3.0V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	819.00/3,000		
MIC5203-3.3YM4 TR	576-1255-1-ND	3.3V, µCap 80mA LDO Reg.	SOT-143	1.08	.90	.72
MIC5203-3.3YM4 TR	576-1255-2-ND	3.3V, µCap 80mA LDO Reg.	SOT-143	1404.00/3,000		
MIC5203-3.3YM5 TR	576-2728-1-ND	3.3V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	.84	.63	.48
MIC5203-3.3YM5 TR	576-2728-2-ND	3.3V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	819.00/3,000		
MIC5203-3.6YM4 TR	576-2729-1-ND	3.6V, µCap 80mA LDO Reg. ***NEW!***	SOT-143	1.08	.90	.72
MIC5203-3.6YM4 TR	576-2729-2-ND	3.6V, µCap 80mA LDO Reg. ***NEW!***	SOT-143	1404.00/3,000		
MIC5203-3.6YM5 TR	576-2730-1-ND	3.6V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	.84	.63	.48
MIC5203-3.6YM5 TR	576-2730-2-ND	3.6V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	819.00/3,000		
MIC5203-3.8YM4 TR	576-2731-1-ND	3.8V, µCap 80mA LDO Reg. ***NEW!***	SOT-143	1.08	.90	.72
MIC5203-3.8YM4 TR	576-2731-2-ND	3.8V, µCap 80mA LDO Reg. ***NEW!***	SOT-143	1404.00/3,000		
MIC5203-3.8YM5 TR	576-2732-1-ND	3.8V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	.84	.63	.48
MIC5203-3.8YM5 TR	576-2732-2-ND	3.8V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	819.00/3,000		
MIC5203-4.0YM4 TR	576-2733-1-ND	4.0V, µCap 80mA LDO Reg. ***NEW!***	SOT-143	.84	.63	.48
MIC5203-4.0YM4 TR	576-2733-2-ND	4.0V, µCap 80mA LDO Reg. ***NEW!***	SOT-143	819.00/3,000		
MIC5203-5.0YM4 TR	576-1256-1-ND	5V, µCap 80mA LDO Reg.	SOT-143	1.08	.90	.72
MIC5203-5.0YM4 TR	576-1256-2-ND	5V, µCap 80mA LDO Reg.	SOT-143	1404.00/3,000		
MIC5203-5.0YM5 TR	576-2734-1-ND	5.0V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	.84	.63	.48
MIC5203-5.0YM5 TR	576-2734-2-ND	5.0V, µCap 80mA LDO Reg. ***NEW!***	SOT-23-5	819.00/3,000		
MIC5205-2.5YM5 TR	576-1257-1-ND	2.5V, 150mA Low Noise LDO Reg.	SOT-23-5	.88	.66	.50
MIC5205-2.5YM5 TR	576-1257-2-ND	2.5V, 150mA Low Noise LDO Reg.	SOT-23-5	858.00/3,000		
MIC5205-2.7YM5 TR	576-2735-1-ND	2.7V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5205-2.7YM5 TR	576-2735-2-ND	2.7V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5205-2.8YM5 TR	576-2736-1-ND	2.8V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5205-2.8YM5 TR	576-2736-2-ND	2.8V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5205-2.9YM5 TR	576-2737-1-ND	2.9V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5205-2.9YM5 TR	576-2737-2-ND	2.9V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5205-3.0YM5 TR	576-1258-1-ND	3V, 150mA Low Noise LDO Reg.	SOT-23-5	.88	.66	.50
MIC5205-3.0YM5 TR	576-1258-2-ND	3V, 150mA Low Noise LDO Reg.	SOT-23-5	858.00/3,000		
MIC5205-3.1YM5 TR	576-2738-1-ND	3.1V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5205-3.1YM5 TR	576-2738-2-ND	3.1V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5205-3.2YM5 TR	576-2739-1-ND	3.2V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5205-3.2YM5 TR	576-2739-2-ND	3.2V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5205-3.3YM5 TR	576-1259-1-ND	3.3V, 150mA Low Noise LDO Reg.	SOT-23-5	.88	.66	.50
MIC5205-3.3YM5 TR	576-1259-2-ND	3.3V, 150mA Low Noise LDO Reg.	SOT-23-5	858.00/3,000		
MIC5205-3.6YM5 TR	576-1260-1-ND	3.6V, 150mA Low Noise LDO Reg.	SOT-23-5	.88	.66	.50
MIC5205-3.6YM5 TR	576-1260-2-ND	3.6V, 150mA Low Noise LDO Reg.	SOT-23-5	858.00/3,000		
MIC5205-3.8YM5 TR	576-2740-1-ND	3.8V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5205-3.8YM5 TR	576-2740-2-ND	3.8V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5205-4.0YM5 TR	576-1563-1-ND	4.0V, 150mA Low Noise LDO Reg.	SOT-23-5	.88	.66	.50
MIC5205-4.0YM5 TR	576-1563-2-ND	4.0V, 150mA Low Noise LDO Reg	SOT-23-5	858.00/3,000		
MIC5205-5.0YM5 TR	576-1261-1-ND	5V, 150mA Low Noise LDO Reg.	SOT-23-5	.88	.66	.50
MIC5205-5.0YM5 TR	576-1261-2-ND	5V, 150mA Low Noise LDO Reg.	SOT-23-5	858.00/3,000		
MIC5205YM5 TR	576-1262-1-ND	Adj., 150mA Low Noise LDO Reg.	SOT-23-5	.88	.66	.50
MIC5205YM5 TR	576-1262-2-ND	Adj., 150mA Low Noise LDO Reg.	SOT-23-5	858.00/3,000		
MIC5206-2.5YM5 TR	576-2741-1-ND	2.5V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	1.32	1.10	.88
MIC5206-2.5YM5 TR	576-2741-2-ND	2.5V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	1716.00/3,000		
MIC5206-3.0YM5 TR	576-1263-1-ND	3V, 150mA Low Noise LDO Reg.	SOT-23-5	1.32	1.10	.88
MIC5206-3.0YM5 TR	576-1263-2-ND	3V, 150mA Low Noise LDO Reg.	SOT-23-5	1716.00/3,000		
MIC5206-3.2YM5 TR	576-1264-1-ND	3.2V, 150mA Low Noise LDO Reg.	SOT-23-5	1.32	1.10	.88
MIC5206-3.2YM5 TR	576-1264-2-ND	3.2V, 150mA Low Noise LDO Reg.	SOT-23-5	1716.00/3,000		
MIC5206-3.3YM5 TR	576-2742-1-ND	3.3V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	1.32	1.10	.88
MIC5206-3.3YM5 TR	576-2742-2-ND	3.3V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	1716.00/3,000		

(Continued)

LDO REGULATORS *(Continued)* — *RoHS Compliant*

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC5206-3.6YM5 TR	576-2743-1-ND	3.6V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	1.32	1.10	.88
MIC5206-3.6YM5 TR	576-2743-2-ND	3.6V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	1716.00/3,000		
MIC5206-4.0YM5 TR	576-1265-1-ND	4.0V, 150mA Low Noise LDO Reg.	SOT-23-5	1.32	1.10	.88
MIC5206-4.0YM5 TR	576-1265-2-ND	4.0V, 150mA Low Noise LDO Reg.	SOT-23-5	1716.00/3,000		
MIC5206-5.0YM5 TR	576-2744-1-ND	5.0V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	1.32	1.10	.88
MIC5206-5.0YM5 TR	576-2744-2-ND	5.0V, 150mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	1716.00/3,000		
MIC5207-1.8YM5 TR	576-2745-1-ND	1.8V, 180mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	.81	.68	.54
MIC5207-1.8YM5 TR	576-2745-2-ND	1.8V, 180mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	1053.00/3,000		
MIC5207-2.5YM5 TR	576-1266-1-ND	2.5V, 180mA Low Noise LDO Reg.	SOT-23-5	.81	.68	.54
MIC5207-2.5YM5 TR	576-1266-2-ND	2.5V, 180mA Low Noise LDO Reg.	SOT-23-5	1053.00/3,000		
MIC5207-2.8YM5 TR	576-2746-1-ND	2.8V, 180mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	.81	.68	.54
MIC5207-2.8YM5 TR	576-2746-2-ND	2.8V, 180mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	1053.00/3,000		
MIC5207-3.0YM5 TR	576-2747-1-ND	3.0V, 180mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	.81	.68	.54
MIC5207-3.0YM5 TR	576-2747-2-ND	3.0V, 180mA Low Noise LDO Regulator ***NEW!***	SOT-23-5	1053.00/3,000		
MIC5207-3.3YM5 TR	576-1267-1-ND	3.3V, 180mA Low Noise LDO Reg.	SOT-23-5	.81	.68	.54
MIC5207-3.3YM5 TR	576-1267-2-ND	3.3V, 180mA Low Noise LDO Reg.	SOT-23-5	1053.00/3,000		
MIC5207-5.0YM5 TR	576-1268-1-ND	5V, 180mA Low Noise LDO Reg.	SOT-23-5	.81	.68	.54
MIC5207-5.0YM5 TR	576-1268-2-ND	5V, 180mA Low Noise LDO Reg.	SOT-23-5	1053.00/3,000		
MIC5207YM5 TR	576-1269-1-ND	Adj., 180mA Low Noise LDO Reg.	SOT-23-5	.81	.68	.54
MIC5207YM5 TR	576-1269-2-ND	Adj., 180mA Low Noise LDO Reg.	SOT-23-5	1053.00/3,000		
MIC5209-1.8YM	576-1270-ND	1.8V, 500mA Low Noise LDO Reg.	8-SOIC	1.63	1.30	.98
MIC5209-2.5YM TR	576-1271-1-ND	2.5V, 500mA Low Noise LDO Reg.	8-SOIC	1.63	1.30	.98
MIC5209-2.5YM TR	576-1271-2-ND	2.5V, 500mA Low Noise LDO Reg.	8-SOIC	2080.00/2,500		
MIC5209-2.5YS TR	576-1272-1-ND	2.5V, 500mA Low Noise LDO Reg.	SOT-223	1.63	1.30	.98
MIC5209-2.5YS TR	576-1272-2-ND	2.5V, 500mA Low Noise LDO Reg.	SOT-223	2080.00/2,500		
MIC5209-3.3YM	576-1273-ND	3.3V, 500mA Low Noise LDO Reg.	8-SOIC	1.63	1.30	.98
MIC5209-3.3YS TR	576-1274-1-ND	3.3V, 500mA Low Noise LDO Reg.	SOT-223	1.63	1.30	.98
MIC5209-3.3YS TR	576-1274-2-ND	3.3V, 500mA Low Noise LDO Reg.	SOT-223	2080.00/2,500		
MIC5209-5.0YM TR	576-1275-1-ND	5V, 500mA Low Noise LDO Reg.	8-SOIC	1.63	1.30	.98
MIC5209-5.0YM TR	576-1275-2-ND	5V, 500mA Low Noise LDO Reg.	8-SOIC	2080.00/2,500		
MIC5209-5.0YS	576-1276-ND	5V, 500mA Low Noise LDO Reg.	SOT-223	1.63	1.30	.98
MIC5209-5.0YU	576-1277-ND	5V, 500mA Low Noise LDO Reg.	TO-263-5	2.08	1.66	1.25
MIC5209YM	576-1278-ND	Adj., 500mA Low Noise LDO Reg.	8-SOIC	1.63	1.30	.98
MIC5209YML TR	576-3026-1-ND	Adj., 500mA Low Noise LDO Regulator ***NEW!***	8-MLF	1.90	1.52	1.14
MIC5209YML TR	576-3026-2-ND	Adj., 500mA Low Noise LDO Regulator ***NEW!***	8-MLF	4750.00/5,000		
MIC5209YU	576-1279-ND	Adj., 500mA Low Noise LDO Reg.	TO-263-5	2.08	1.66	1.25
MIC5211-3.3YM6 TR	576-2748-1-ND	3.3V, 80mA µCap Dual VLDO Regulator ***NEW!***	SOT-23-6	1.14	.95	.76
MIC5211-3.3YM6 TR	576-2748-2-ND	3.3V, 80mA µCap Dual VLDO Regulator ***NEW!***	SOT-23-6	1482.00/3,000		
MIC5211-LXYM6 TR	576-2749-1-ND	3.3V/5.0V 80mA µCap Dual VLDO Regulator ***NEW!***	SOT-23-6	1.14	.95	.76
MIC5211-LXYM6 TR	576-2749-2-ND	3.3V/5.0V 80mA µCap Dual VLDO Regulator ***NEW!***	SOT-23-6	1482.00/3,000		
MIC5213-2.5YC5 TR	576-2750-1-ND	2.5V, Teeny™ 80mA µCap LDO Regulator ***NEW!***	SC70-5	.92	.69	.52
MIC5213-2.5YC5 TR	576-2750-2-ND	2.5V, Teeny™ 80mA µCap LDO Regulator ***NEW!***	SC70-5	897.00/3,000		
MIC5213-2.8YC5 TR	576-2751-1-ND	2.8V, Teeny™ 80mA µCap LDO Regulator ***NEW!***	SC70-5	.92	.69	.52
MIC5213-2.8YC5 TR	576-2751-2-ND	2.8V, Teeny™ 80mA µCap LDO Regulator ***NEW!***	SC70-5	897.00/3,000		
MIC5213-3.0YC5 TR	576-2752-1-ND	3.0V, Teeny™ 80mA µCap LDO Regulator ***NEW!***	SC70-5	.92	.69	.52
MIC5213-3.0YC5 TR	576-2752-2-ND	3.0V, Teeny™ 80mA µCap LDO Regulator ***NEW!***	SC70-5	897.00/3,000		
MIC5213-3.3YC5 TR	576-2753-1-ND	3.3V, Teeny™ 80mA µCap LDO Regulator ***NEW!***	SC70-5	.92	.69	.52
MIC5213-3.3YC5 TR	576-2753-2-ND	3.3V, Teeny™ 80mA µCap LDO Regulator ***NEW!***	SC70-5	897.00/3,000		
MIC5213-3.6YC5 TR	576-2754-1-ND	3.6V, Teeny™ 80mA µCap LDO Regulator ***NEW!***	SC70-5	.92	.69	.52
MIC5213-3.6YC5 TR	576-2754-2-ND	3.6V, Teeny™ 80mA µCap LDO Regulator ***NEW!***	SC70-5	897.00/3,000		
MIC5213-5.0YC5 TR	576-2755-1-ND	5.0V, Teeny™ 80mA µCap LDO Regulator ***NEW!***	SC70-5	.92	.69	.52
MIC5213-5.0YC5 TR	576-2755-2-ND	5.0V, Teeny™ 80mA µCap LDO Regulator ***NEW!***	SC70-5	897.00/3,000		
MIC5216-3.3YM5 TR	576-2756-1-ND	3.3V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1.65	1.32	.99
MIC5216-3.3YM5 TR	576-2756-2-ND	3.3V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	2535.00/3,000		
MIC5216-5.0YM5 TR	576-2757-1-ND	5.0V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1.65	1.32	.99
MIC5216-5.0YM5 TR	576-2757-2-ND	5.0V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	2535.00/3,000		
MIC5216-5.0YMM	576-2990-ND	5.0V, 500mA-Peak Output LDO Regulator ***NEW!***	8-MSOP	2.28	1.82	1.37
MIC5219-2.5YM5 TR	576-2758-1-ND	2.5V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1.38	1.15	.92
MIC5219-2.5YM5 TR	576-2758-2-ND	2.5V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1794.00/3,000		
MIC5219-2.6YM5 TR	576-2759-1-ND	2.6V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1.38	1.15	1.38
MIC5219-2.6YM5 TR	576-2759-2-ND	2.6V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1794.00/3,000		
MIC5219-2.7YM5 TR	576-2760-1-ND	2.7V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1.38	1.15	.92
MIC5219-2.7YM5 TR	576-2760-2-ND	2.7V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1794.00/3,000		
MIC5219-2.85YM5 TR	576-2761-1-ND	2.85V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1.38	1.15	.92
MIC5219-2.85YM5 TR	576-2761-2-ND	2.85V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1794.00/3,000		
MIC5219-2.8YM5 TR	576-2762-1-ND	2.8V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1.38	1.15	.92
MIC5219-2.8YM5 TR	576-2762-2-ND	2.8V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1794.00/3,000		
MIC5219-2.8YML TR	576-2763-1-ND	2.8V, 500mA-Peak Output LDO Regulator ***NEW!***	6-MLF	1.73	1.38	1.04
MIC5219-2.8YML TR	576-2763-2-ND	2.8V, 500mA-Peak Output LDO Regulator ***NEW!***	6-MLF	4315.00/5,000		
MIC5219-2.9YM5 TR	576-2764-1-ND	2.9V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1.38	1.15	.92
MIC5219-2.9YM5 TR	576-2764-2-ND	2.9V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1794.00/3,000		
MIC5219-3.0YM5 TR	576-2765-1-ND	3.0V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1.38	1.15	.92
MIC5219-3.0YM5 TR	576-2765-2-ND	3.0V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1794.00/3,000		
MIC5219-3.0YML TR	576-2766-1-ND	3.0V, 500mA-Peak Output LDO Regulator ***NEW!***	6-MLF	1.73	1.38	1.04
MIC5219-3.0YML TR	576-2766-2-ND	3.0V, 500mA-Peak Output LDO Regulator ***NEW!***	6-MLF	4315.00/5,000		
MIC5219-3.0YMM TR	576-1280-1-ND	3.0V, 500mA-Peak Output LDO Reg.	8-MSOP	1.50	1.20	.90
MIC5219-3.0YMM TR	576-1280-2-ND	3.0V, 500mA-Peak Output LDO Reg.	8-MSOP	1920.00/2,500		
MIC5219-3.1YM5 TR	576-2767-1-ND	3.1V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1.38	1.15	.92
MIC5219-3.1YM5 TR	576-2767-2-ND	3.1V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1794.00/3,000		
MIC5219-3.3YML TR	576-2768-1-ND	3.3V, 500mA-Peak Output LDO Regulator ***NEW!***	6-MLF	1.73	1.38	1.04
MIC5219-3.3YML TR	576-2768-2-ND	3.3V, 500mA-Peak Output LDO Regulator ***NEW!***	6-MLF	4315.00/5,000		
MIC5219-3.3YM5 TR	576-1281-1-ND	3.3V, 500mA-Peak Output LDO Reg.	SOT-23-5	1.38	1.15	.92
MIC5219-3.3YM5 TR	576-1281-2-ND	3.3V, 500mA-Peak Output LDO Reg.	SOT-23-5	1794.00/3,000		
MIC5219-3.6YM5 TR	576-2769-1-ND	3.6V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1.38	1.15	.92
MIC5219-3.6YM5 TR	576-2769-2-ND	3.6V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1794.00/3,000		
MIC5219YM5 TR	576-1282-1-ND	Adj., 500mA-Peak Output LDO Reg.	SOT-23-5	1.38	1.15	.92
MIC5219YM5 TR	576-1282-2-ND	Adj., 500mA-Peak Output LDO Reg.	SOT-23-5	1794.00/3,000		
MIC5219-5.0YM5 TR	576-2770-1-ND	5.0V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1.38	1.15	.92
MIC5219-5.0YM5 TR	576-2770-2-ND	5.0V, 500mA-Peak Output LDO Regulator ***NEW!***	SOT-23-5	1794.00/3,000		
MIC5231-2.75YM5 TR	576-2771-1-ND	2.75V, 10mA Micropower µCap LDO Regulator ***NEW!***	SOT-23-5	1.43	1.14	.86
MIC5231-2.75YM5 TR	576-2771-2-ND	2.75V, 10mA Micropower µCap LDO Regulator ***NEW!***	SOT-23-5	2190.00/3,000		
MIC5231-3.0YM5 TR	576-1283-1-ND	3V, 10mA Micropower µCap LDO Regulator	SOT-23-5	1.43	1.14	.86
MIC5231-3.0YM5 TR	576-1283-2-ND	3V, 10mA Micropower µCap LDO Regulator	SOT-23-5	2190.00/3,000		
MIC5231-3.3YM5 TR	576-2772-1-ND	3.3V, 10mA Micropower µCap LDO Regulator ***NEW!***	SOT-23-5	1.43	1.14	.86
MIC5231-3.3YM5 TR	576-2772-2-ND	3.3V, 10mA Micropower µCap LDO Regulator ***NEW!***	SOT-23-5	2190.00/3,000		
MIC5231-5.0YM5 TR	576-2773-1-ND	5.0V, 10mA Micropower µCap LDO Regulator ***NEW!***	SOT-23-5	1.43	1.14	.86
MIC5231-5.0YM5 TR	576-2773-2-ND	5.0V, 10mA Micropower µCap LDO Regulator ***NEW!***	SOT-23-5	2190.00/3,000		
MIC5232-1.2YML TR	576-1592-1-ND	1.2V, 10mA Ultra-Low µCap LDO Reg.	6-MLF	1.02	.85	.68
MIC5232-1.2YML TR	576-1592-2-ND	1.2V, 10mA Ultra-Low µCap LDO Reg.	6-MLF	2170.00/5,000		
MIC5232-3.3YD5 TR	576-2774-1-ND	3.3V, 10mA Ultra-Low µCap LDO Regulator ***NEW!***	SOT-23-5	.75	.63	.50
MIC5232-3.3YD5 TR	576-2774-2-ND	3.3V, 10mA Ultra-Low µCap LDO Regulator ***NEW!***	SOT-23-5	975.00/3,000		
MIC5233-1.8YM5 TR	576-2775-1-ND	1.8V, 100mA Low IQ µCap LDO Regulator ***NEW!***	SOT-23-5	1.55	1.24	.93
MIC5233-1.8YM5 TR	576-2775-2-ND	1.8V, 100mA Low IQ µCap LDO Regulator ***NEW!***	SOT-23-5	2382.00/3,000		
MIC5233-2.5YM5 TR	576-2776-1-ND	2.5V, 100mA Low IQ µCap LDO Regulator ***NEW!***	SOT-23-5	1.55	1.24	.93
MIC5233-2.5YM5 TR	576-2776-2-ND	2.5V, 100mA Low IQ µCap LDO Regulator ***NEW!***	SOT-23-5	2382.00/3,000		
MIC5233-3.0YM5 TR	576-2777-1-ND	3.0V, 100mA Low IQ µCap LDO Regulator ***NEW!***	SOT-23-5	1.55	1.24	.93
MIC5233-3.0YM5 TR	576-2777-2-ND	3.0V, 100mA Low IQ µCap LDO Regulator ***NEW!***	SOT-23-5	2382.00/3,000		
MIC5233-3.3YM5 TR	576-2778-1-ND	3.3V, 100mA Low IQ µCap LDO Regulator ***NEW!***	SOT-23-5	1.55	1.24	.93
MIC5233-3.3YM5 TR	576-2778-2-ND	3.3V, 100mA Low IQ µCap LDO Regulator ***NEW!***	SOT-23-5	2382.00/3,000		
MIC5233-5.0YM5 TR	576-2779-1-ND	5.0V, 100mA Low IQ µCap LDO Regulator ***NEW!***	SOT-23-5	1.55	1.24	.93
MIC5233-5.0YM5 TR	576-2779-2-ND	5.0V, 100mA Low IQ µCap LDO Regulator ***NEW!***	SOT-23-5	2382.00/3,000		
MIC5233YM5 TR	576-1507-1-ND	Adj., 100mA Low IQ µCap LDO Reg.	SOT-23-5	1.55	1.24	.93
MIC5233YM5 TR	576-1507-2-ND	Adj., 100mA Low IQ µCap LDO Reg.	SOT-23-5	2382.00/3,000		
MIC5235-1.5YM5 TR	576-2780-1-ND	1.5V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	.87	.73	.58
MIC5235-1.5YM5 TR	576-2780-2-ND	1.5V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	1131.00/3,000		
MIC5235-1.8YM5 TR	576-2781-1-ND	1.8V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	.87	.73	.58
MIC5235-1.8YM5 TR	576-2781-2-ND	1.8V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	1131.00/3,000		
MIC5235-2.5YM5 TR	576-2782-1-ND	2.5V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	.87	.73	.58
MIC5235-2.5YM5 TR	576-2782-2-ND	2.5V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	1131.00/3,000		
MIC5235-3.0YM5 TR	576-2783-1-ND	3.0V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	.87	.73	.58

(Continued)

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LDO REGULATORS *(Continued)* — RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC5235-3.0YM5 TR	576-2783-2-ND	3.0V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	1131.00/3,000		
MIC5235-3.3YM5 TR	576-2784-1-ND	3.3V,150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	.87	.73	.58
MIC5235-3.3YM5 TR	576-2784-2-ND	3.3V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	1131.00/3,000		
MIC5235-5.0YM5 TR	576-2785-1-ND	5.0V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	.87	.73	.58
MIC5235-5.0YM5 TR	576-2785-2-ND	5.0V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	1131.00/3,000		
MIC5235YM5 TR	576-1284-1-ND	Adj., 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	.87	.73	.58
MIC5235YM5 TR	576-1284-2-ND	Adj., 150mA Ultra Low Quiescent Current, µCap LDO Regulator	SOT-23-5	1131.00/3,000		
MIC5236YM	576-1285-ND	Adj., Low Quiescent Current µCap LDO Regulator	8-SOIC	1.78	1.42	1.07
MIC5237-3.3YU	576-1286-ND	3.3V, 500mA Low Dropout Regulator	TO-263	1.85	1.48	1.11
MIC5238-1.0YM5 TR	576-2786-1-ND	1.0V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	1.41	1.18	.94
MIC5238-1.0YM5 TR	576-2786-2-ND	1.0V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	1833.00/3,000		
MIC5238-1.3YM5 TR	576-2787-1-ND	1.3V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	1.41	1.18	.94
MIC5238-1.3YM5 TR	576-2787-2-ND	1.3V, 150mA Ultra Low Quiescent Current, µCap LDO Regulator ***NEW!***	SOT-23-5	1833.00/3,000		
MIC5239YMM	576-1287-ND	Adj., Low Quiescent Current 500mA µCap LDO Regulator	8-MSOP	2.27	1.82	1.42
MIC5245-2.5YM5 TR	576-2788-1-ND	2.5V, 150mA µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.78	.65	.52
MIC5245-2.5YM5 TR	576-2788-2-ND	2.5V, 150mA µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	1014.00/3,000		
MIC5245-3.0YM5 TR	576-2789-1-ND	3.0V, 150mA µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.78	.65	.52
MIC5245-3.0YM5 TR	576-2789-2-ND	3.0V, 150mA µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	1014.00/3,000		
MIC5245-3.3YM5 TR	576-2790-1-ND	3.3V, 150mA µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.78	.65	.52
MIC5245-3.3YM5 TR	576-2790-2-ND	3.3V, 150mA µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	1014.00/3,000		
MIC5247-1.5YM5 TR	576-2791-1-ND	1.5V, 150mA Low Voltage µCap Regulator ***NEW!***	SOT-23-5	.96	.72	.54
MIC5247-1.5YM5 TR	576-2791-2-ND	1.5V, 150mA Low Voltage µCap Regulator ***NEW!***	SOT-23-5	936.00/3,000		
MIC5247-1.5YML TR	576-2792-1-ND	1.5V, 150mA Low Voltage µCap Regulator ***NEW!***	6-MLF	.99	.83	.66
MIC5247-1.5YML TR	576-2792-2-ND	1.5V, 150mA Low Voltage µCap Regulator ***NEW!***	6-MLF	2105.00/5,000		
MIC5247-1.8YD5 TR	576-3007-1-ND	1.8V, 150mA Low Voltage µCap Regulator ***NEW!***	TSOT-23-5	.78	.65	.52
MIC5247-1.8YD5 TR	576-3007-2-ND	1.8V, 150mA Low Voltage µCap Regulator ***NEW!***	TSOT-23-5	1014.00/3,000		
MIC5247-1.8YM5 TR	576-1288-1-ND	1.8V, 150mA Low Voltage µCap Regulator	SOT-23-5	.96	.72	.54
MIC5247-1.8YM5 TR	576-1288-2-ND	1.8V, 150mA Low Voltage µCap Regulator	SOT-23-5	936.00/3,000		
MIC5247-1.85YM5 TR	576-2793-1-ND	1.85V, 150mA Low Voltage µCap Regulator ***NEW!***	SOT-23-5	.96	.72	.54
MIC5247-1.85YM5 TR	576-2793-2-ND	1.85V, 150mA Low Voltage µCap Regulator ***NEW!***	SOT-23-5	936.00/3,000		
MIC5247-1.85YML TR	576-2794-1-ND	1.85V, 150mA Low Voltage µCap Regulator ***NEW!***	6-MLF	.99	.83	.66
MIC5247-1.85YML TR	576-2794-2-ND	1.85V, 150mA Low Voltage µCap Regulator ***NEW!***	6-MLF	2105.00/5,000		
MIC5247-1.8YML TR	576-2795-1-ND	1.8V, 150mA Low Voltage µCap Regulator ***NEW!***	6-MLF	.99	.83	.66
MIC5247-1.8YML TR	576-2795-2-ND	1.8V, 150mA Low Voltage µCap Regulator ***NEW!***	6-MLF	2105.00/5,000		
MIC5247-2.0YD5 TR	576-2796-1-ND	2.0V, 150mA Low Voltage µCap Regulator ***NEW!***	TSOT-23-5	.78	.65	.52
MIC5247-2.0YD5 TR	576-2796-2-ND	2.0V, 150mA Low Voltage µCap Regulator ***NEW!***	TSOT-23-5	1014.00/3,000		
MIC5247-2.0YM5 TR	576-2797-1-ND	2.0V, 150mA Low Voltage µCap Regulator ***NEW!***	SOT-23-5	.96	.72	.54
MIC5247-2.0YM5 TR	576-2797-2-ND	2.0V, 150mA Low Voltage µCap Regulator ***NEW!***	SOT-23-5	936.00/3,000		
MIC5248-1.2YM5 TR	576-2798-1-ND	1.2V, 150mA µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.88	.66	.50
MIC5248-1.2YM5 TR	576-2798-2-ND	1.2V, 150mA µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	858.00/3,000		
MIC5248-1.2YML TR	576-2799-1-ND	1.2V, 150mA µCap CMOS LDO Regulator ***NEW!***	6-MLF	.81	.68	.54
MIC5248-1.2YML TR	576-2799-2-ND	1.2V, 150mA µCap CMOS LDO Regulator ***NEW!***	6-MLF	1720.00/5,000		
MIC5252-1.8YM5 TR	576-2800-1-ND	1.8V, 150mA Low Noise µCap LDO Regulator ***NEW!***	SOT-23-5	.81	.68	.54
MIC5252-1.8YM5 TR	576-2800-2-ND	1.8V, 150mA Low Noise µCap LDO Regulator ***NEW!***	SOT-23-5	1053.00/3,000		
MIC5252-2.85YM5 TR	576-2801-1-ND	2.85V, 150mA Low Noise µCap LDO Regulator ***NEW!***	SOT-23-5	.81	.68	.54
MIC5252-2.85YM5 TR	576-2801-2-ND	2.85V, 150mA Low Noise µCap LDO Regulator ***NEW!***	SOT-23-5	1053.00/3,000		
MIC5252-2.85YML TR	576-2802-1-ND	2.85V, 150mA Low Noise µCap LDO Regulator ***NEW!***	6-MLF	1.05	.88	.70
MIC5252-2.85YML TR	576-2802-2-ND	2.85V, 150mA Low Noise µCap LDO Regulator ***NEW!***	6-MLF	2230.00/5,000		
MIC5252-2.8YML TR	576-2803-1-ND	2.8V, 150mA Low Noise µCap LDO Regulator ***NEW!***	6-MLF	1.05	.88	.70
MIC5252-2.8YML TR	576-2803-2-ND	2.8V, 150mA Low Noise µCap LDO Regulator ***NEW!***	6-MLF	2230.00/5,000		
MIC5252-3.0YML TR	576-2804-1-ND	3.0V, 150mA Low Noise µCap LDO Regulator ***NEW!***	6-MLF	1.05	.88	.70
MIC5252-3.0YML TR	576-2804-2-ND	3.0V, 150mA Low Noise µCap LDO Regulator ***NEW!***	6-MLF	2230.00/5,000		
MIC5252-4.75YM5 TR	576-2805-1-ND	4.75V, 150mA Low Noise µCap LDO Regulator ***NEW!***	SOT-23-5	.81	.68	.54
MIC5252-4.75YM5 TR	576-2805-2-ND	4.75V, 150mA Low Noise µCap LDO Regulator ***NEW!***	SOT-23-5	1053.00/3,000		
MIC5253-1.85YC5 TR	576-2806-1-ND	1.85V, 100mA Low Noise µCap Teeny™ LDO Regulator ***NEW!***	SC70-5	.87	.73	.58
MIC5253-1.85YC5 TR	576-2806-2-ND	1.85V, 100mA Low Noise µCap Teeny™ LDO Regulator ***NEW!***	SC70-5	1131.00/3,000		
MIC5253-1.8YC5 TR	576-2807-1-ND	1.8V, 100mA Low Noise µCap Teeny™ LDO Regulator ***NEW!***	SC70-5	.87	.73	.58
MIC5253-1.8YC5 TR	576-2807-2-ND	1.8V, 100mA Low Noise µCap Teeny™ LDO Regulator ***NEW!***	SC70-5	1131.00/3,000		
MIC5253-2.6YC5 TR	576-2808-1-ND	2.6V, 100mA Low Noise µCap Teeny™ LDO Regulator ***NEW!***	SC70-5	.87	.73	.58
MIC5253-2.6YC5 TR	576-2808-2-ND	2.6V, 100mA Low Noise µCap Teeny™ LDO Regulator ***NEW!***	SC70-5	1131.00/3,000		
MIC5253-2.8YC5 TR	576-2809-1-ND	2.8V, 100mA Low Noise µCap Teeny™ LDO Regulator ***NEW!***	SC70-5	.87	.73	.58
MIC5253-2.8YC5 TR	576-2809-2-ND	2.8V, 100mA Low Noise µCap Teeny™ LDO Regulator ***NEW!***	SC70-5	1131.00/3,000		
MIC5253-2.9YC5 TR	576-2810-1-ND	2.9V, 100mA Low Noise µCap Teeny™ LDO Regulator ***NEW!***	SC70-5	.87	.73	.58
MIC5253-2.9YC5 TR	576-2810-2-ND	2.9V, 100mA Low Noise µCap Teeny™ LDO Regulator ***NEW!***	SC70-5	1131.00/3,000		
MIC5253-3.3YC5	576-1289-1-ND	3.3V, 100mA Low Noise µCap Teeny™ LDO Regulator	SC70-5	.87	.73	.58
MIC5253-3.3YC5	576-1289-2-ND	3.3V, 100mA Low Noise µCap Teeny™ LDO Regulator	SC70-5	1131.00/3,000		
MIC5255-2.5YD5 TR	576-2811-1-ND	2.5V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	TSOT-23-5	.96	.72	.54
MIC5255-2.5YD5 TR	576-2811-2-ND	2.5V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	TSOT-23-5	936.00/3,000		
MIC5255-2.5YM5 TR	576-2812-1-ND	2.5V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.96	.72	.54
MIC5255-2.5YM5 TR	576-2812-2-ND	2.5V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	936.00/3,000		
MIC5255-2.6YM5 TR	576-2813-1-ND	2.6V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.96	.72	.54
MIC5255-2.6YM5 TR	576-2813-2-ND	2.6V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	936.00/3,000		
MIC5255-2.75YM5 TR	576-2814-1-ND	2.75V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.96	.72	.54
MIC5255-2.75YM5 TR	576-2814-2-ND	2.75V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	936.00/3,000		
MIC5255-2.7YM5 TR	576-2815-1-ND	2.7V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.96	.72	.54
MIC5255-2.7YM5 TR	576-2815-2-ND	2.7V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	936.00/3,000		
MIC5255-2.85YM5 TR	576-2816-1-ND	2.85V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.96	.72	.54
MIC5255-2.85YM5 TR	576-2816-2-ND	2.85V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	936.00/3,000		
MIC5255-2.85YML TR	576-2817-1-ND	2.85V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	6-MLF	.99	.83	.66
MIC5255-2.85YML TR	576-2817-2-ND	2.85V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	6-MLF	2105.00/5,000		
MIC5255-2.8YD5 TR	576-2818-1-ND	2.8V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	TSOT-23-5	.96	.72	.54
MIC5255-2.8YD5 TR	576-2818-2-ND	2.8V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	TSOT-23-5	936.00/3,000		
MIC5255-2.8YM5 TR	576-2819-1-ND	2.8V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.96	.72	.54
MIC5255-2.8YM5 TR	576-2819-2-ND	2.8V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	936.00/3,000		
MIC5255-2.9YM5 TR	576-2820-1-ND	2.9V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.96	.72	.54
MIC5255-2.9YM5 TR	576-2820-2-ND	2.9V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	936.00/3,000		
MIC5255-3.0YD5 TR	576-2821-1-ND	3.0V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	TSOT-23-5	.96	.72	.54
MIC5255-3.0YD5 TR	576-2821-2-ND	3.0V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	TSOT-23-5	936.00/3,000		
MIC5255-3.0YM5 TR	576-2822-1-ND	3.0V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.96	.72	.54
MIC5255-3.0YM5 TR	576-2822-2-ND	3.0V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	936.00/3,000		
MIC5255-3.0YML TR	576-2823-1-ND	3.0V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	6-MLF	.99	.83	.66
MIC5255-3.0YML TR	576-2823-2-ND	3.0V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	6-MLF	2105.00/5,000		
MIC5255-3.1YM5 TR	576-2824-1-ND	3.1V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	.96	.72	.54
MIC5255-3.1YM5 TR	576-2824-2-ND	3.1V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	SOT-23-5	936.00/3,000		
MIC5255-3.3YD5 TR	576-2825-1-ND	3.3V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	TSOT-23-5	.96	.72	.54
MIC5255-3.3YD5 TR	576-2825-2-ND	3.3V, 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	TSOT-23-5	936.00/3,000		
MIC5255-3.3YM5 TR	576-1290-1-ND	3.3V, 150mA Low Noise µCap CMOS LDO Regulator	SOT-23-5	.96	.72	.54
MIC5255-3.3YM5 TR	576-1290-2-ND	3.3V, 150mA Low Noise µCap CMOS LDO Regulator	SOT-23-5	936.00/3,000		
MIC5255-3.3YML TR	576-2826-1-ND	3.3V 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	6-MLF	.99	.83	.66
MIC5255-3.3YML TR	576-2826-2-ND	3.3V 150mA Low Noise µCap CMOS LDO Regulator ***NEW!***	6-MLF	2105.00/5,000		
MIC5256-2.5YM5 TR	576-1291-1-ND	2.5V, 150mA µCap LDO w/Error Flag	SOT-23-5	.78	.65	.52
MIC5256-2.5YM5 TR	576-1291-2-ND	2.5V, 150mA µCap LDO w/Error Flag	SOT-23-5	1014.00/3,000		
MIC5256-2.8YM5 TR	576-2827-1-ND	2.8V, 150mA µCap LDO with Error Flag ***NEW!***	SOT-23-5	.78	.65	.52

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC5256-2.8YM5 TR	576-2827-2-ND	2.8V, 150mA µCap LDO with Error Flag ***NEW!***	SOT-23-5	1014.00/3,000		
MIC5256-3.0YM5 TR	576-1292-1-ND	3V, 150mA µCap LDO w/Error Flag	SOT-23-5	.78	.65	.52
MIC5256-3.0YM5 TR	576-1292-2-ND	3V, 150mA µCap LDO w/Error Flag	SOT-23-5	1014.00/3,000		
MIC5256-3.3YM5 TR	576-1293-1-ND	3.3V, 150mA µCap LDO w/Error Flag	SOT-23-5	.78	.65	.52
MIC5256-3.3YM5 TR	576-1293-2-ND	3.3V, 150mA µCap LDO w/Error Flag	SOT-23-5	1014.00/3,000		
MIC5258-1.2YM5 TR	576-2828-1-ND	1.2V, 150mA µCap CMOS LDO Regulator with Power Good ***NEW!***	SOT-23-5	.96	.72	.54
MIC5258-1.2YM5 TR	576-2828-2-ND	1.2V, 150mA µCap CMOS LDO Regulator with Power Good ***NEW!***	SOT-23-5	936.00/3,000		
MIC5259-1.8YML TR	576-2829-1-ND	1.8V, 300mA High PSRR, Low Noise µCap LDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5259-1.8YML TR	576-2829-2-ND	1.8V, 300mA High PSRR, Low Noise µCap LDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5259-2.5YD5 TR	576-2830-1-ND	2.5V, 300mA High PSRR, Low Noise µCap LDO Regulator ***NEW!***	TSOT-23-5	1.26	1.05	.84
MIC5259-2.5YD5 TR	576-2830-2-ND	2.5V, 300mA High PSRR, Low Noise µCap LDO Regulator ***NEW!***	TSOT-23-5	1638.00/3,000		
MIC5259-2.5YML TR	576-2831-1-ND	2.5V, 300mA High PSRR, Low Noise µCap LDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5259-2.5YML TR	576-2831-2-ND	2.5V, 300mA High PSRR, Low Noise µCap LDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5259-2.85YML TR	576-2832-1-ND	2.85V, 300mA High PSRR, Low Noise µCap LDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5259-2.85YML TR	576-2832-2-ND	2.85V, 300mA High PSRR, Low Noise µCap LDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5259-3.3YD5 TR	576-2833-1-ND	3.3V, 300mA High PSRR, Low Noise µCap LDO Regulator ***NEW!***	TSOT-23-5	1.26	1.05	.84
MIC5259-3.3YD5 TR	576-2833-2-ND	3.3V, 300mA High PSRR, Low Noise µCap LDO Regulator ***NEW!***	TSOT-23-5	1638.00/3,000		
MIC5259-3.3YML TR	576-2834-1-ND	3.3V, 300mA High PSRR, Low Noise µCap LDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5259-3.3YML TR	576-2834-2-ND	3.3V, 300mA High PSRR, Low Noise µCap LDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5264-MFYML TR	576-1438-1-ND	150mA µCap Dual LDO Regulator	10-MLF	1.20	1.00	.80
MIC5264-MFYML TR	576-1438-2-ND	150mA µCap Dual LDO Regulator	10-MLF	2550.00/5,000		
MIC5265-1.8YD5 TR	576-1439-1-ND	1.8V, 150mA µCap LDO Regulator	TSOT-23-5	.68	.51	.39
MIC5265-1.8YD5 TR	576-1439-2-ND	1.8V, 150mA µCap LDO Regulator	TSOT-23-5	663.00/3,000		
MIC5265-3.3YD5 TR	576-2835-1-ND	3.3V, 150mA µCap LDO Regulator ***NEW!***	TSOT-23-5	.68	.51	.39
MIC5265-3.3YD5 TR	576-2835-2-ND	3.3V, 150mA µCap LDO Regulator ***NEW!***	TSOT-23-5	663.00/3,000		
MIC5268-1.2YM5 TR	576-2836-1-ND	1.2V, 150mA µCap CMOS LDO Regulator with Power Good ***NEW!***	SOT-23-5	.88	.66	.50
MIC5268-1.2YM5 TR	576-2836-2-ND	1.2V, 150mA µCap CMOS LDO Regulator with Power Good ***NEW!***	SOT-23-5	858.00/3,000		
MIC5270-3.0YM5 TR	576-2837-1-ND	-3.0V 100mA µCap Negative LDO Regulator ***NEW!***	SOT-23-5	2.00	1.60	1.20
MIC5270-3.0YM5 TR	576-2837-2-ND	-3.0V 100mA µCap Negative LDO Regulator ***NEW!***	SOT-23-5	3072.00/3,000		
MIC5270-4.1YM5 TR	576-2838-1-ND	-4.1V 100mA µCap Negative LDO Regulator ***NEW!***	SOT-23-5	2.00	1.60	1.20
MIC5270-4.1YM5 TR	576-2838-2-ND	-4.1V 100mA µCap Negative LDO Regulator ***NEW!***	SOT-23-5	3072.00/3,000		
MIC5270-5.0YM5 TR	576-1294-1-ND	–5V, µCap Negative LDO Reg.	SOT-23-5	2.00	1.60	1.20
MIC5270-5.0YM5 TR	576-1294-2-ND	–5V, µCap Negative LDO Reg.	SOT-23-5	3072.00/3,000		
MIC5270YM5 TR	576-1295-1-ND	Adj., µCap Negative LDO Reg.	SOT-23-5	2.00	1.60	1.20
MIC5270YM5 TR	576-1295-2-ND	Adj., µCap Negative LDO Reg.	SOT-23-5	3072.00/3,000		
MIC5271YM5 TR	576-2839-1-ND	Adj., 100mA µCap Negative LDO Regulator ***NEW!***	SOT-23-5	2.20	1.76	1.32
MIC5271YM5 TR	576-2839-2-ND	Adj., 100mA µCap Negative LDO Regulator ***NEW!***	SOT-23-5	3378.00/3,000		
MIC5301-2.85YD5 TR	576-1593-1-ND	2.85V, 150mA Single µCap ULDO Regulator	TSOT-23-5	.99	.83	.66
MIC5301-2.85YD5 TR	576-1593-2-ND	2.85V, 150mA Single µCap ULDO Regulator	TSOT-23-5	1287.00/3,000		
MIC5301-3.3YD5 TR	576-2840-1-ND	3.3V, 150mA Single µCap ULDO Regulator ***NEW!***	TSOT-23-5	.99	.83	.66
MIC5301-3.3YD5 TR	576-2840-2-ND	3.3V, 150mA Single µCap ULDO Regulator ***NEW!***	TSOT-23-5	1287.00/3,000		
MIC5302-1.8YMT TR	576-1608-1-ND	1.8V, 150mA CMOS ULDO Reg.	14-MLF	.84	.70	.56
MIC5302-1.8YMT TR	576-1608-2-ND	1.8V, 150mA CMOS ULDO Reg.	14-MLF	1785.00/5,000		
MIC5302-2.1YMT TR	576-2841-1-ND	2.1V, 150mA CMOS ULDO Reg. ***NEW!***	4-MLF	.84	.70	.56
MIC5302-2.1YMT TR	576-2841-2-ND	2.1V, 150mA CMOS ULDO Reg. ***NEW!***	4-MLF	1785.00/5,000		
MIC5302-2.5YMT TR	576-2842-1-ND	2.5V, 150mA CMOS ULDO Reg. ***NEW!***	4-MLF	.84	.70	.56
MIC5302-2.5YMT TR	576-2842-2-ND	2.5V, 150mA CMOS ULDO Reg. ***NEW!***	4-MLF	1785.00/5,000		
MIC5302-2.85YMT TR	576-2843-1-ND	2.85V, 150mA CMOS ULDO Regulator ***NEW!***	4-MLF	.84	.70	.56
MIC5302-2.85YMT TR	576-2843-2-ND	2.85V, 150mA CMOS ULDO Regulator ***NEW!***	4-MLF	1785.00/5,000		
MIC5302-2.8YMT TR	576-2844-1-ND	2.8V, 150mA CMOS ULDO Regulator ***NEW!***	4-MLF	.84	.70	.56
MIC5302-2.8YMT TR	576-2844-2-ND	2.8V, 150mA CMOS ULDO Regulator ***NEW!***	4-MLF	1785.00/5,000		
MIC5302-3.0YMT TR	576-2845-1-ND	3.0V, 150mA CMOS ULDO Regulator ***NEW!***	4-MLF	.84	.70	.56
MIC5302-3.0YMT TR	576-2845-2-ND	3.0V, 150mA CMOS ULDO Regulator ***NEW!***	4-MLF	1785.00/5,000		
MIC5303-1.8YMT TR	576-1609-1-ND	1.8V, 300mA Single CMOS Ultra Small ULDO Regulator	14-MLF	.99	.83	.66
MIC5303-1.8YMT TR	576-1609-2-ND	1.8V, 300mA Single CMOS Ultra Small ULDO Regulator	14-MLF	2105.00/5,000		
MIC5303-3.0YMT TR	576-2846-1-ND	3.0V, 300mA Single CMOS Ultra Small ULDO Regulator ***NEW!***	4-MLF	.99	.83	.66
MIC5303-3.0YMT TR	576-2846-2-ND	3.0V, 300mA Single CMOS Ultra Small ULDO Regulator ***NEW!***	4-MLF	2105.00/5,000		
MIC5303-3.3YMT TR	576-2847-1-ND	3.3V, 300mA Single CMOS Ultra Small ULDO Regulator ***NEW!***	4-MLF	.99	.83	.66
MIC5303-3.3YMT TR	576-2847-2-ND	3.3V, 300mA Single CMOS Ultra Small ULDO Regulator ***NEW!***	4-MLF	2105.00/5,000		
MIC5305-1.5YML TR	576-2848-1-ND	1.5V, 150mA µCap ULDO Reg. ***NEW!***	6-MLF	1.50	1.20	.90
MIC5305-1.5YML TR	576-2848-2-ND	1.5V, 150mA µCap ULDO Reg. ***NEW!***	6-MLF	3750.00/5,000		
MIC5305-1.8YD5	576-1296-1-ND	1.8V, 150mA µCap ULDO Reg.	TSOT-23-5	2.20	1.65	1.24
MIC5305-1.8YD5	576-1296-2-ND	1.8V, 150mA µCap ULDO Reg.	TSOT-23-5	2145.00/3,000		
MIC5305-2.0YML TR	576-2849-1-ND	2.0V, 150mA µCap ULDO Reg. ***NEW!***	6-MLF	1.50	1.20	.90
MIC5305-2.0YML TR	576-2849-2-ND	2.0V, 150mA µCap ULDO Reg. ***NEW!***	6-MLF	3750.00/5,000		
MIC5305-2.85YD5 TR	576-2850-1-ND	2.85V, 150mA µCap ULDO Regulator ***NEW!***	TSOT-23-5	1.38	1.10	.83
MIC5305-2.85YD5 TR	576-2850-2-ND	2.85V, 150mA µCap ULDO Regulator ***NEW!***	TSOT-23-5	2112.00/3,000		
MIC5305-2.8YD5 TR	576-2851-1-ND	2.8V, 150mA µCap ULDO Regulator ***NEW!***	TSOT-23-5	1.38	1.10	.83
MIC5305-2.8YD5 TR	576-2851-2-ND	2.8V, 150mA µCap ULDO Regulator ***NEW!***	TSOT-23-5	2112.00/3,000		
MIC5305-3.0YD5	576-1297-1-ND	3V, 150mA µCap ULDO Reg.	TSOT-23-5	2.20	1.65	1.24
MIC5305-3.0YD5	576-1297-2-ND	3V, 150mA µCap ULDO Reg.	TSOT-23-5	2145.00/3,000		
MIC5305-3.3YD5	576-1298-1-ND	3.3V, 150mA µCap ULDO Reg.	TSOT-23-5	2.20	1.65	1.24
MIC5305-3.3YD5	576-1298-2-ND	3.3V, 150mA µCap ULDO Reg.	TSOT-23-5	2145.00/3,000		
MIC5305-3.3YML TR	576-2852-1-ND	3.3V, 150mA µCap ULDO Reg. ***NEW!***	6-MLF	1.50	1.20	.90
MIC5305-3.3YML TR	576-2852-2-ND	3.3V, 150mA µCap ULDO Reg. ***NEW!***	6-MLF	3750.00/5,000		
MIC5306-1.8YD5 TR	576-2853-1-ND	1.8V, 150mA Micropower µCap Baseband LDO Regulator ***NEW!***	TSOT-23-5	1.14	.95	.76
MIC5306-1.8YD5 TR	576-2853-2-ND	1.8V, 150mA Micropower µCap Baseband LDO Regulator ***NEW!***	TSOT-23-5	1482.00/3,000		
MIC5306-2.5YD5 TR	576-2854-1-ND	2.5V, 150mA Micropower µCap Baseband LDO Regulator ***NEW!***	TSOT-23-5	1.14	.95	.76
MIC5306-2.5YD5 TR	576-2854-2-ND	2.5V, 150mA Micropower µCap Baseband LDO Regulator ***NEW!***	TSOT-23-5	1482.00/3,000		
MIC5306-3.0YD5 TR	576-3012-1-ND	3.0V, 150mA Micropower µCap Baseband LDO Regulator ***NEW!***	TSOT-23-5	1.14	.95	.76
MIC5306-3.0YD5 TR	576-3012-2-ND	3.0V, 150mA Micropower µCap Baseband LDO Regulator ***NEW!***	TSOT-23-5	1482.00/3,000		
MIC5306-3.1YD5 TR	576-3031-1-ND	3.1V, 150mA Micropower µCap Baseband LDO Regulator ***NEW!***	TSOT-23-5	1.14	.95	.76
MIC5306-3.1YD5 TR	576-3031-2-ND	3.1V, 150mA Micropower µCap Baseband LDO Regulator ***NEW!***	TSOT-23-5	1482.00/3,000		
MIC5307-2.8YD5 TR	576-1610-1-ND	2.8V, 300mA Micropower µCap Baseband LDO Regulator	TSOT-23-5	.96	.80	.64
MIC5307-2.8YD5 TR	576-1610-2-ND	2.8V, 300mA Micropower µCap Basebad LDO Regulator	TSOT-23-5	1248.00/3,000		
MIC5307-3.0YD5 TR	576-2855-1-ND	3.0V, 300mA Micropower µCap Baseband LDO Regulator ***NEW!***	TSOT-23-5	.96	.80	.64
MIC5307-3.0YD5 TR	576-2855-2-ND	3.0V, 300mA Micropower µCap Baseband LDO Regulator ***NEW!***	TSOT-23-5	1248.00/3,000		
MIC5308-1.2YD6 TR	576-3043-1-ND	1.2V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	1.28	1.02	.77
MIC5308-1.2YD6 TR	576-3043-2-ND	1.2V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	1959.00/3,000		
MIC5308-1.5YD6 TR	576-3074-1-ND	1.5V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	1.28	1.02	.77
MIC5308-1.5YD6 TR	576-3074-2-ND	1.5V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	1959.00/3,000		
MIC5308-1.8YD6 TR	576-3064-1-ND	1.8V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	1.28	1.02	.77
MIC5308-1.8YD6 TR	576-3064-2-ND	1.8V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	1959.00/3,000		
MIC5308YD6 TR	576-3023-1-ND	Adj., 150mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	1.28	1.02	.77
MIC5308YD6 TR	576-3023-2-ND	Adj., 150mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	1959.00/3,000		
MIC5308-1.2YMT TR	576-3051-1-ND	1.2V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	1.28	1.02	.77
MIC5308-1.2YMT TR	576-3051-2-ND	1.2V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	3190.00/5,000		
MIC5308-1.5YMT TR	576-3065-1-ND	1.5V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	1.28	1.02	.77
MIC5308-1.5YMT TR	576-3065-2-ND	1.5V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	3190.00/5,000		
MIC5308-1.8YMT TR	576-3066-1-ND	1.8V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	1.28	1.02	.77
MIC5308-1.8YMT TR	576-3066-2-ND	1.8V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	3190.00/5,000		
MIC5308YMT TR	576-3009-1-ND	Adj.V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	1.28	1.02	.77
MIC5308YMT TR	576-3009-2-ND	Adj.V, 150mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	3190.00/5,000		
MIC5309-1.2YD6 TR	576-3002-1-ND	1.2V, 300mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	1.53	1.22	.92
MIC5309-1.2YD6 TR	576-3002-2-ND	1.2V, 300mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	2343.00/3,000		
MIC5309-1.5YD6 TR	576-3004-1-ND	1.5V, 300mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	1.53	1.22	.92
MIC5309-1.5YD6 TR	576-3004-2-ND	1.5V, 300mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	2343.00/3,000		
MIC5309-1.8YD6 TR	576-3010-1-ND	1.8V, 300mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	1.53	1.22	.92
MIC5309-1.8YD6 TR	576-3010-2-ND	1.8V, 300mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	2343.00/3,000		
MIC5309YD6 TR	576-3039-1-ND	Adj., 300mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	1.53	1.22	.92
MIC5309YD6 TR	576-3039-2-ND	Adj., 300mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-6	2343.00/3,000		
MIC5309-1.2YMT TR	576-3050-1-ND	1.2V, 300mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	1.53	1.22	.92
MIC5309-1.2YMT TR	576-3050-2-ND	1.2V, 300mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	3815.00/5,000		
MIC5309-1.5YMT TR	576-3047-1-ND	1.5V, 300mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	1.53	1.22	.92
MIC5309-1.5YMT TR	576-3047-2-ND	1.5V, 300mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	3815.00/5,000		
MIC5309-1.8YMT TR	576-3020-1-ND	1.8V, 300mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	1.53	1.22	.92
MIC5309-1.8YMT TR	576-3020-2-ND	1.8V, 300mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	3815.00/5,000		
MIC5309YMT TR	576-3019-1-ND	Adj., 300mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	1.53	1.22	.92

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC5309YMT TR	576-3019-2-ND	Adj., 300mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	3815.00/5,000		
MIC5310-MFYML TR	576-2856-1-ND	2.8V/1.5V, Dual 150mA µCap ULDO Regulator ***NEW!***	8-MLF	1.38	1.15	.92
MIC5310-MFYML TR	576-2856-2-ND	2.8V/1.5V, Dual 150mA µCap ULDO Regulator ***NEW!***	8-MLF	2935.00/5,000		
MIC5310-MGYML TR	576-1566-1-ND	2.8V/1.8V, Dual, 150mA µCap ULDO Regulator	8-MLF	1.38	1.15	.92
MIC5310-MGYML TR	576-1566-2-ND	2.8V/1.8V, Dual, 150mA µCap ULDO Regulator	8-MLF	2935.00/5,000		
MIC5310-PGYML TR	576-1567-1-ND	3.0V/1.8V Dual, 150mA µCap ULDO Regulator	8-MLF	1.38	1.15	.92
MIC5310-PGYML TR	576-1567-2-ND	3.0V/1.8V Dual, 150mA µCap ULDO Regulator	8-MLF	2935.00/5,000		
MIC5310-PNYML TR	576-2857-1-ND	3.0V/2.85V Dual, 150mA µCap ULDO Regulator ***NEW!***	8-MLF	1.38	1.15	.92
MIC5310-PNYML TR	576-2857-2-ND	3.0V/2.85V, Dual, 150mA µCap ULDO Regulator ***NEW!***	8-MLF	2935.00/5,000		
MIC5318-1.3YD5 TR	576-2981-1-ND	1.3V, 300mA High Performance µCap ULDO Regulator ***NEW!***	TSOT-23-5	.96	.80	.64
MIC5318-1.3YD5 TR	576-2981-2-ND	1.3V, 300mA High Performance µCap ULDO Regulator ***NEW!***	TSOT-23-5	1248.00/3,000		
MIC5318-1.5YD5 TR	576-2858-1-ND	1.5V, 300mA High Performance µCap ULDO Regulator ***NEW!***	SOT-23-5	.96	.80	.64
MIC5318-1.5YD5 TR	576-2858-2-ND	1.5V, 300mA High Performance µCap ULDO Regulator ***NEW!***	SOT-23-5	1248.00/3,000		
MIC5318-2.5YD5 TR	576-2859-1-ND	2.5V, 300mA High Performance µCap ULDO Regulator ***NEW!***	SOT-23-5	.96	.80	.64
MIC5318-2.5YD5 TR	576-2859-2-ND	2.5V, 300mA High Performance µCap ULDO Regulator ***NEW!***	SOT-23-5	1248.00/3,000		
MIC5318-3.3YD5 TR	576-2860-1-ND	3.3V, 300mA High Performance µCap ULDO Regulator ***NEW!***	SOT-23-5	.96	.80	.64
MIC5318-3.3YD5 TR	576-2860-2-ND	3.3V, 300mA High Performance µCap ULDO Regulator ***NEW!***	SOT-23-5	1248.00/3,000		
MIC5318-3.3YMT TR	576-2861-1-ND	3.3V, 300mA High Performance µCap ULDO Regulator ***NEW!***	6-MLF	1.05	.88	.70
MIC5318-3.3YMT TR	576-2861-2-ND	3.3V, 300mA High Performance µCap ULDO Regulator ***NEW!***	6-MLF	2230.00/5,000		
MIC5318YMT TR	576-2862-1-ND	Adj., 300mA High Performance µCap ULDO Regulator ***NEW!***	6-MLF	1.05	.88	.70
MIC5318YMT TR	576-2862-2-ND	Adj., 300mA High Performance µCap ULDO Regulator ***NEW!***	6-MLF	2230.00/5,000		
MIC5319-1.3HYD5 TR	576-2863-1-ND	1.375V, 500mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-5	2.13	1.70	1.28
MIC5319-1.3HYD5 TR	576-2863-2-ND	1.375V, 500mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-5	3264.00/3,000		
MIC5319-1.8YD5 TR	576-2864-1-ND	1.8V, 500mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-5	2.13	1.70	1.28
MIC5319-1.8YD5 TR	576-2864-2-ND	1.8V, 500mA High PSRR µCap ULDO Regulator ***NEW!***	TSOT-23-5	3264.00/3,000		
MIC5319-2.6YML TR	576-2865-1-ND	2.6V, 500mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	2.25	1.80	1.35
MIC5319-2.6YML TR	576-2865-2-ND	2.6V, 500mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	5625.00/5,000		
MIC5319-2.8YML TR	576-2866-1-ND	2.8V, 500mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	2.25	1.80	1.35
MIC5319-2.8YML TR	576-2866-2-ND	2.8V, 500mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	5625.00/5,000		
MIC5319-3.3YML TR	576-2867-1-ND	3.3V, 500mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	2.25	1.80	1.35
MIC5319-3.3YML TR	576-2867-2-ND	3.3V, 500mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	5625.00/5,000		
MIC5319-5.0YML TR	576-2868-1-ND	5.0V, 500mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	2.25	1.80	1.35
MIC5319-5.0YML TR	576-2868-2-ND	5.0V, 500mA High PSRR µCap ULDO Regulator ***NEW!***	6-MLF	5625.00/5,000		
MIC5319YML TR	576-1299-1-ND	Adj., 500mA High PSSR µCap ULDO Regulator	6-MLF	2.25	1.80	1.35
MIC5319YML TR	576-1299-2-ND	Adj., 500mA High PSSR µCap ULDO Regulator	6-MLF	5625.00/5,000		
MIC5320-H4FYMT TR	576-2869-1-ND	2.4V/1.5V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5320-H4FYMT TR	576-2869-2-ND	2.4V/1.5V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5320-JGYML TR	576-1568-1-ND	2.5V/1.8V Dual High Performance 150mA µCap ULDO Regulator	6-MLF	1.41	1.18	.94
MIC5320-JGYML TR	576-1568-2-ND	2.5V/1.8V Dual High Performance 150mA µCap ULDO Regulator	6-MLF	2995.00/5,000		
MIC5320-KGYMT TR	576-2870-1-ND	2.6V/1.8V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5320-KGYMT TR	576-2870-2-ND	2.6V/1.8V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5320-MFYMT TR	576-2871-1-ND	2.8V/1.5V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5320-MFYMT TR	576-2871-2-ND	2.8V/1.5V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5320-MGYMT TR	576-2872-1-ND	2.8V/1.8V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5320-MGYMT TR	576-2872-2-ND	2.8V/1.8V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5320-PKYMT TR	576-2873-1-ND	3.0V/2.6V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5320-PKYMT TR	576-2873-2-ND	3.0V/2.6V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5320-PMYMT TR	576-2874-1-ND	3.0V/2.8V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5320-PMYMT TR	576-2874-2-ND	3.0V/2.8V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5320-PPYML TR	576-1569-1-ND	3.0V Dual High Performance 150mA µCap ULDO Regulator	6-MLF	1.41	1.18	.94
MIC5320-PPYML TR	576-1569-2-ND	3.0V Dual High Performance 150mA µCap ULDO Regulator	6-MLF	2995.00/5,000		
MIC5320-SGYD6 TR	576-1658-1-ND	3.3V/1.8V Dual High Performance 150mA µCap ULDO Reg.	TSOT-23-6	1.26	1.05	.84
MIC5320-SGYD6 TR	576-1658-2-ND	3.3V/1.8V Dual High Performance 150mA µCap ULDO Reg.	TSOT-23-6	1638.00/3,000		
MIC5320-SGYMT TR	576-2875-1-ND	3.3V/1.8V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5320-SGYMT TR	576-2875-2-ND	3.3V/1.8V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5320-SPYMT TR	576-2876-1-ND	3.3V/3.0V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5320-SPYMT TR	576-2876-2-ND	3.3V/3.0V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5321-MFYML TR	576-1570-1-ND	2.8V/1.5V Dual High Performance 150mA µCap ULDO Regulator	6-MLF	1.41	1.18	.94
MIC5321-MFYML TR	576-1570-2-ND	2.8V/1.5V Dual High Performance 150mA µCap ULDO Regulator	6-MLF	2995.00/5,000		
MIC5321-MMYML TR	576-1571-1-ND	2.8V Dual High Performance 150mA µCap ULDO Regulator	6-MLF	1.41	1.18	.94
MIC5321-MMYML TR	576-1571-2-ND	2.8V Dual High Performance 150mA µCap ULDO Regulator	6-MLF	2995.00/5,000		
MIC5321-PKYMT TR	576-2877-1-ND	3.0V/2.6V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	1.26	1.05	.84
MIC5321-PKYMT TR	576-2877-2-ND	3.0V/2.6V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	2680.00/5,000		
MIC5321-PPYML TR	576-2878-1-ND	3.0V/3.0V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	1.41	1.18	.94
MIC5321-PPYML TR	576-2878-2-ND	3.0V/3.0V Dual High Performance 150mA µCap ULDO Regulator ***NEW!***	6-MLF	2995.00/5,000		
MIC5322-MFYMT TR	576-3048-1-ND	2.8V/1.5V Dual High Performance 150mA µCap ULDO Reg. ***NEW!***	6-MLF	1.41	1.18	.94
MIC5322-MFYMT TR	576-3048-2-ND	2.8V/1.5V Dual High Performance 150mA µCap ULDO Reg. ***NEW!***	6-MLF	2995.00/5,000		
MIC5322-MGYMT TR	576-3033-1-ND	2.8V/1.8V Dual High Performance 150mA µCap ULDO Reg. ***NEW!***	6-MLF	1.41	1.18	.94
MIC5322-MGYMT TR	576-3033-2-ND	2.8V/1.8V Dual High Performance 150mA µCap ULDO Reg. ***NEW!***	6-MLF	2995.00/5,000		
MIC5322-NNYMT TR	576-3038-1-ND	2.85V Dual High Performance 150mA µCap ULDO Reg. ***NEW!***	6-MLF	1.41	1.18	.94
MIC5322-NNYMT TR	576-3038-2-ND	2.85V Dual High Performance 150mA µCap ULDO Reg. ***NEW!***	6-MLF	2995.00/5,000		
MIC5322-PMYMT TR	576-3028-1-ND	3.0V/2.8V Dual High Performance 150mA µCap ULDO Reg. ***NEW!***	6-MLF	1.41	1.18	.94
MIC5322-PMYMT TR	576-3028-2-ND	3.0V/2.8V Dual High Performance 150mA µCap ULDO Reg. ***NEW!***	6-MLF	2995.00/5,000		
MIC5322-PNYMT TR	576-3049-1-ND	3.0V/2.85V Dual High Performance 150mA µCap ULDO Reg. ***NEW!***	6-MLF	1.41	1.18	.94
MIC5322-PNYMT TR	576-3049-2-ND	3.0V/2.85V Dual High Performance 150mA µCap ULDO Reg. ***NEW!***	6-MLF	2995.00/5,000		
MIC5322-PPYMT TR	576-3018-1-ND	3.0V/3.0V Dual High Performance 150mA µCap ULDO Reg. ***NEW!***	6-MLF	1.41	1.18	.94
MIC5322-PPYMT TR	576-3018-2-ND	3.0V/3.0V Dual High Performance 150mA µCap ULDO Reg. ***NEW!***	6-MLF	2995.00/5,000		
MIC5330-NNYML TR	576-2879-1-ND	2.85V/2.85V, Dual 300mA µCap ULDO Regulator ***NEW!***	8-MLF	1.28	1.02	.77
MIC5330-NNYML TR	576-2879-2-ND	2.85V/2.85V, Dual 300mA µCap ULDO Regulator ***NEW!***	8-MLF	3190.00/5,000		
MIC5330-PKYML TR	576-1572-1-ND	3.0V/2.6V Dual 300mA µCap ULDO Regulator	8-MLF	1.28	1.02	.77
MIC5330-PKYML TR	576-1572-2-ND	3.0V/2.6V Dual 300mA µCap ULDO Regulator	8-MLF	3190.00/5,000		
MIC5330-PMYML TR	576-2880-1-ND	3.0V/2.8V, Dual 300mA µCap ULDO Regulator ***NEW!***	8-MLF	1.28	1.02	.77
MIC5330-PMYML TR	576-2880-2-ND	3.0V/2.8V, Dual 300mA µCap ULDO Regulator ***NEW!***	8-MLF	3190.00/5,000		
MIC5330-SFYML TR	576-2881-1-ND	3.3V/1.5V, Dual 300mA µCap ULDO Regulator ***NEW!***	8-MLF	1.28	1.02	.77
MIC5330-SFYML TR	576-2881-2-ND	3.3V/1.5V, Dual 300mA µCap ULDO Regulator ***NEW!***	8-MLF	3190.00/5,000		
MIC5330-SGYML TR	576-2882-1-ND	3.3V/1.8V, Dual 300mA µCap ULDO Regulator ***NEW!***	8-MLF	1.28	1.02	.77
MIC5330-SGYML TR	576-2882-2-ND	3.3V/1.8V, Dual 300mA µCap ULDO Regulator ***NEW!***	8-MLF	3190.00/5,000		
MIC5330-SKYML TR	576-1573-1-ND	3.3V/2.6V Dual 300mA µCap ULDO Regulator	8-MLF	1.28	1.02	.77
MIC5330-SKYML TR	576-1573-2-ND	3.3V/2.6V Dual 300mA µCap ULDO Regulator	8-MLF	3190.00/5,000		
MIC5330-SNYML TR	576-2883-1-ND	3.3V/2.85V, Dual 300mA µCap ULDO Regulator ***NEW!***	8-MLF	1.28	1.02	.77
MIC5330-SNYML TR	576-2883-2-ND	3.3V/2.85V, Dual 300mA µCap ULDO Regulator ***NEW!***	8-MLF	3190.00/5,000		
MIC5335-2.8/1.5YMT TR	576-1611-1-ND	2.8V/1.5V, Dual 300mA µCap ULDO Regulator	6-MLF	2.08	1.66	1.25
MIC5335-2.8/1.5YMT TR	576-1611-2-ND	2.8V/1.5V, Dual 300mA µCap ULDO Regulator	6-MLF	5190.00/5,000		
MIC5335-SMYMT TR	576-2884-1-ND	3.3V/2.8V Dual 300mA High Performance µCap ULDO Regulator ***NEW!***	6-MLF	1.33	1.06	.80
MIC5335-SMYMT TR	576-2884-2-ND	3.3V/2.8V Dual 300mA High Performance µCap ULDO Regulator ***NEW!***	6-MLF	3315.00/5,000		
MIC29150-3.3WT	576-1104-ND	3.3V, High-Current LDO Reg.	TO-220	3.58	2.87	2.23
MIC29150-3.3WU	576-1105-ND	3.3V, High-Current LDO Reg.	TO-263	3.58	2.87	2.23
MIC29150-5.0WT	576-1106-ND	5V, High-Current LDO Reg.	TO-220	3.58	2.87	2.23
MIC29150-5.0WU	576-1107-ND	5V, High-Current LDO Reg.	TO-263	3.58	2.87	2.23
MIC29151-3.3WU	576-1108-ND	3.3V, High-Current LDO Reg.	TO-263-5	3.78	3.03	2.36
MIC29151-5.0WT	576-1109-ND	5V, High-Current LDO Reg.	TO-220-5	3.78	3.03	2.36
MIC29151-5.0WU	576-1110-ND	5V, High-Current LDO Reg.	TO-263-5	3.78	3.03	2.36
MIC29152WT	576-1111-ND	Adj., High-Current LDO Reg.	TO-220-5	3.78	3.03	2.36
MIC29152WU TR	576-1112-1-ND	Adj., High-Current LDO Reg.	TO-263-5	3.78	3.03	2.36
MIC29152WU TR	576-1112-2-ND	Adj., High-Current LDO Reg.	TO-263-5	1638.00/750		
MIC29201-5.0WU	576-1113-ND	5V, 400mA LDO Voltage Reg.	TO-263-5	3.26	2.61	2.03
MIC29202WU	576-1114-ND	Adj., 400mA LDO Voltage Reg.	TO-263-5	3.71	2.97	2.31
MIC29204YM	576-1115-ND	5V and Adj., 400mA LDO Volt. Reg.	8-SOIC	2.63	2.11	1.64
MIC29300-12WT	576-1118-ND	12V, High-Current LDO Reg.	TO-220	4.39	3.51	2.73
MIC29300-3.3WT	576-1119-ND	3.3V, High-Current LDO Reg.	TO-220	4.39	3.51	2.73
MIC29300-3.3WU	576-1120-ND	3.3V, High-Current LDO Reg.	TO-263	4.39	3.51	2.73

(Continued)

LDO REGULATORS *(Continued)*

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC29300-5.0WT	576-1121-ND	5V, High-Current LDO Reg.	TO-220	4.39	3.51	2.73
MIC29300-5.0WU	576-1122-ND	5V, High-Current LDO Reg.	TO-263	4.39	3.51	2.73
MIC29301-3.3WU	576-1123-ND	3.3V, High-Current LDO Reg.	TO-263-5	4.39	3.51	2.73
MIC29302WT	576-1124-ND	Adj., High-Current LDO Reg.	TO-220-5	4.39	3.51	2.73
MIC29302WU TR	576-1125-1-ND	Adj., High-Current LDO Reg.	TO-263-5	4.39	3.51	2.73
MIC29302WU TR	576-1125-2-ND	Adj., High-Current LDO Reg.	TO-263-5	1901.25/750		
MIC29303WU	576-1126-ND	Adj., High-Current LDO Reg.	TO-263-5	5.58	4.47	3.48
MIC29371-5.0WT	576-1127-ND	5V, 750mA LDO Voltage Reg.	TO-220-5	3.74	2.99	2.33
MIC29371-5.0WU	576-1128-ND	5V, 750mA LDO Voltage Reg.	TO-263-5	3.74	2.99	2.33
MIC29372WT	576-1129-ND	Adj., 750mA LDO Voltage Reg.	TO-220-5	3.74	2.99	2.33
MIC29372WU TR	576-1130-1-ND	Adj., 750mA LDO Voltage Reg.	TO-263-5	3.74	2.99	2.33
MIC29372WU TR	576-1130-2-ND	Adj., 750mA LDO Voltage Reg.	TO-263-5	1618.50/750		
MIC29500-3.3WT	576-1142-ND	3.3V, High-Current LDO Reg.	TO-220	7.08	5.67	4.78
MIC29500-5.0WT	576-1143-ND	5V, High-Current LDO Reg.	TO-220	7.08	5.67	4.78
MIC29501-3.3WU	576-1144-ND	3.3V, High-Current LDO Reg.	TO-263-5	8.14	6.52	5.50
MIC29502WT	576-1145-ND	Adj., High-Current LDO Reg.	TO-220-5	8.14	6.52	5.50
MIC29502WU TR	576-1146-1-ND	Adj., High-Current LDO Reg.	TO-263-5	8.14	6.52	5.50
MIC29502WU TR	576-1146-2-ND	Adj., High-Current LDO Reg.	TO-263-5	3876.75/750		
MIC29503WU	576-1147-ND	Adj., High-Current LDO Reg.	TO-263-5	7.92	6.34	5.35
MIC29752WWT	576-1157-ND	Adj., High-Current LDO Reg.	TO-247-5	13.16	11.85	10.51
MIC37100-1.5WS	576-1161-ND	1.5V, 1A Low Volt. µCap LDO Reg.	SOT-223	1.60	1.28	.96
MIC37100-2.5WS	576-1162-ND	2.5V, 1A Low Volt. µCap LDO Reg.	SOT-223	1.60	1.28	.96
MIC37100-3.3WS	576-1163-ND	3.3V, 1A Low Volt. µCap LDO Reg.	SOT-223	1.60	1.28	.96
MIC37151-1.5WR	576-1164-ND	1.5V, 1.5A Low Volt. µCap LDO Reg.	5-SPAK	3.29	2.63	2.05
MIC37152WR	576-1165-ND	Adj., 1.5A Low Volt. µCap LDO Reg.	5-SPAK	2.97	2.38	1.85
MIC37301-1.5WR	576-1166-ND	1.5V, 3.0A Low Volt. µCap LDO Reg.	5-SPAK	4.01	3.21	2.50
MIC37302WR TR	576-1167-1-ND	Adj., 3.0A Low Volt. µCap LDO Reg.	5-SPAK	4.23	3.39	2.64
MIC37302WR TR	576-1167-2-ND	Adj., 3.0A Low Volt. µCap LDO Reg.	5-SPAK	1833.00/750		
MIC38300HYHL TR	576-2960-1-ND	Adj., 3.0A Low Noise High Efficiency Regulator ***NEW!***	28-MLF	5.56	4.45	3.76
MIC38300HYHL TR	576-2960-2-ND	Adj., 3.0A Low Noise High Efficiency Regulator ***NEW!***	28-MLF	3475.00/1,000		
MIC39100-1.8WS	576-1170-ND	1.8V, 1A Low Voltage LDO Reg.	SOT-223	1.78	1.42	1.07
MIC39100-2.5WS TR	576-1171-1-ND	2.5V, 1A Low Voltage LDO Reg.	SOT-223	1.78	1.42	1.07
MIC39100-2.5WS TR	576-1171-2-ND	2.5V, 1A Low Voltage LDO Reg.	SOT-223	2272.50/2,500		
MIC39100-3.3WS	576-1172-ND	3.3V, 1A Low Voltage LDO Reg.	SOT-223	1.78	1.42	1.07
MIC39100-5.0WS	576-1173-ND	5V, 1A Low Voltage LDO Reg.	SOT-223	1.78	1.42	1.07
MIC39101-5.0YM	576-1174-ND	5V, 1A Low Voltage LDO Reg.	8-SOIC	2.03	1.62	1.22
MIC39102YM	576-1175-ND	Adj., 1A Low Voltage LDO Reg.	8-SOIC	2.03	1.62	1.22
MIC39150-1.8WU	576-1176-ND	1.8V, 1.5A Low Voltage LDO Reg.	TO-263	2.97	2.38	1.85
MIC39150-2.5WU	576-1177-ND	2.5V, 1.5A Low Voltage LDO Reg.	TO-263	2.97	2.38	1.85
MIC39300-1.8WU	576-1178-ND	1.8V, 3A Low Voltage LDO Reg.	TO-263	3.71	2.97	2.31
MIC39300-2.5WU TR	576-1179-1-ND	2.5V, 3A Low Voltage LDO Reg.	TO-263	3.71	2.97	2.31
MIC39300-2.5WU TR	576-1179-2-ND	2.5V, 3A Low Voltage LDO Reg.	TO-263	1608.75/750		
MIC39301-1.8WU	576-1180-ND	1.8V, 3A Low Voltage LDO Reg.	TO-263-5	4.07	3.26	2.54
MIC39301-2.5WU	576-1181-ND	2.5V, 3A Low Voltage LDO Reg.	TO-263-5	4.07	3.26	2.54
MIC39500-2.5WU	576-1182-ND	2.5V, 5A Low Voltage LDO Reg.	TO-263	5.58	4.47	3.77
MIC49150WR	576-1227-ND	Adj., 1.5A Low Voltage LDO Reg.	5-SPAK	4.39	3.51	2.73
MIC49150YMM	576-1228-ND	Adj., 1.5A Low Voltage LDO Reg.	8-MSOP	3.67	2.94	2.29
MIC49200-1.2WR	576-1465-1-ND	2A Low Voltage LDO	5-SPAK	3.20	2.56	1.99
MIC49200-1.2WR	576-1465-2-ND	2A Low Voltage LDO	5-SPAK	1384.50/750		
MIC49300WR	576-1229-ND	Adj., 3.0A Low Voltage LDO Reg.	5-SPAK	5.28	4.23	3.57
MIC49500WR	576-1466-1-ND	5A Dual Supply Low Voltage High Bandwidth LDO	7-SPAK	9.70	7.76	6.55
MIC49500WR	576-1466-2-ND	5A Dual Supply Low Voltage High Bandwidth LDO	7-SPAK	4620.00/750		
MIC68200-1.8YML TR	576-1469-1-ND	1.8V, 2A Sequencing LDO Regulator	10-MLF	3.22	2.58	2.01
MIC68200-1.8YML TR	576-1469-2-ND	1.8V, 2A Sequencing LDO Regulator	10-MLF	8940.00/5,000		
MIC68200-3.3YML TR	576-2896-1-ND	3.3V, 2A Sequencing LDO Regulator ***NEW!***	10-MLF	3.22	2.58	2.01
MIC68200-3.3YML TR	576-2896-2-ND	3.3V, 2A Sequencing LDO Regulator ***NEW!***	10-MLF	8940.00/5,000		
MIC68200YML TR	576-2897-1-ND	Adj., 2A Sequencing LDO Regulator ***NEW!***	10-MLF	3.22	2.58	2.01
MIC68200YML TR	576-2897-2-ND	Adj., 2A Sequencing LDO Regulator ***NEW!***	10-MLF	8940.00/5,000		
MIC68220YML TR	576-1612-1-ND	Adj., 2A Dual LDO Regulator	20-MLF	5.82	4.66	3.93
MIC68220YML TR	576-1612-2-ND	Adj., 2A Dual LDO Regulator	10-MLF	17750.00/5,000		
MIC68400-1.8YML TR	576-2898-1-ND	1.8V, 4A Sequencing LDO Regulator ***NEW!***	16-MLF	4.97	3.98	3.10
MIC68400-1.8YML TR	576-2898-2-ND	1.8V, 4A Sequencing LDO Regulator ***NEW!***	16-MLF	13815.00/5,000		
MIC68400YML TR	576-2899-1-ND	Adj. , 4A Sequencing LDO Regulator ***NEW!***	16-MLF	4.97	3.98	3.10
MIC68400YML TR	576-2899-2-ND	Adj. , 4A Sequencing LDO Regulator ***NEW!***	16-MLF	13815.00/5,000		
MIC69101-1.8YML TR	576-3070-1-ND	1.8V, 1A, Single Low Voltage, ULDO Regulator ***NEW!***	10-MLF	2.66	2.13	1.66
MIC69101-1.8YML TR	576-3070-2-ND	1.8V, 1A, Single Low Voltage, ULDO Regulator ***NEW!***	10-MLF	7375.00/5,000		
MIC69103YML TR	576-3067-1-ND	Adj., 1A, Single Low Voltage, ULDO Regulator ***NEW!***	10-MLF	2.66	2.13	1.66
MIC69103YML TR	576-3067-2-ND	Adj., 1A, Single Low Voltage, ULDO Regulator ***NEW!***	10-MLF	7375.00/5,000		
MIC69151-1.8YML TR	576-3072-1-ND	1.8V, 1.5A, Single Low Voltage, ULDO Regulator ***NEW!***	10-MLF	2.99	2.40	1.87
MIC69151-1.8YML TR	576-3072-2-ND	1.8V, 1.5A, Single Low Voltage, ULDO Regulator ***NEW!***	10-MLF	8315.00/5,000		
MIC69153YML TR	576-3073-1-ND	Adj., 1.5A, Single Low Voltage, ULDO Regulator ***NEW!***	10-MLF	2.99	2.40	1.87
MIC69153YML TR	576-3073-2-ND	Adj., 1.5A, Single Low Voltage, ULDO Regulator ***NEW!***	10-MLF	8315.00/5,000		
MIC69301-1.2WR	576-3053-ND	1.2V, 3A, Single Low Voltage, ULDO Regulator ***NEW!***	5-SPAK	4.55	3.64	2.83
MIC69302WR	576-2986-ND	Adj., 3A, Single Low Voltage, ULDO Regulator ***NEW!***	5-SPAK	4.55	3.64	2.83
MIC69502WR	576-1613-ND	Adj., 5A µCap LDO Regulator	7-SPAK	6.26	5.01	4.23

MOSFET DRIVERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC44F18YML TR	576-2718-1-ND	6A Non-Inverting High Speed MOSFET Driver ***NEW!***	8-MLF	2.00	1.60	1.20
MIC44F18YML TR	576-2718-2-ND	6A Inverting High Speed MOSFET Driver ***NEW!***	8-MLF	5000.00/5,000		
MIC44F18YMME	576-1501-ND	6A Inverting HS MOSFET Driver	8-MSOP	2.25	1.80	1.35
MIC44F19YML TR	576-2719-1-ND	6A Inverting High Speed MOSFET Driver ***NEW!***	8-MLF	2.00	1.60	1.20
MIC44F19YML TR	576-2719-2-ND	6A Inverting High Speed MOSFET Driver ***NEW!***	8-MLF	5000.00/5,000		
MIC44F19YMME	576-1502-ND	6A Inverting HS MOSFET Driver	8-MSOP	2.25	1.80	1.35
MIC44F20YMME	576-1503-ND	6A Inverting HS MOSFET Driver	8-MSOP	2.25	1.80	1.35
MIC4100YM	576-1183-ND	100V Half-Bridge MOSFET Driver	8-SOIC	3.42	2.74	2.13
MIC4102YM	576-1184-ND	100V Half-Bridge MOSFET Driver	8-SOIC	3.42	2.74	2.13
MIC4103YM	576-1589-ND	100V Half-Bridge MOSFET Driver	8-SOIC	3.83	3.06	2.38
MIC4104YM	576-1590-ND	100V Half-Bridge MOSFET Driver TTL	8-SOIC	3.83	3.06	2.38
MIC4120YME	576-1445-ND	6A Peak Low-Side MOSFET Driver	8-SOIC	2.08	1.66	1.25
MIC4120YML TR	576-1480-1-ND	6A Peak Low-Side MOSFET Driver	8-MLF	2.36	1.89	1.47
MIC4120YML TR	576-1480-2-ND	6A Peak Low-Side MOSFET Driver	8-MLF	1339.00/1,000		
MIC4123YME	576-1447-ND	Dual 3A Peak Low-Side MOSFET Driver	8-SOIC	2.25	1.80	1.35
MIC4124YME	576-1448-ND	Dual 3A Peak Low-Side MOSFET Driver	8-SOIC	2.25	1.80	1.35
MIC4125YME	576-1449-ND	Dual 3A Peak Low-Side MOSFET Driver	8-SOIC	2.25	1.80	1.35
MIC4126YME	576-1185-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	2.25	1.80	1.35
MIC4127YME	576-1186-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	2.25	1.80	1.35
MIC4127YML TR	576-2716-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver ***NEW!***	8-MLF	2.25	1.80	1.40
MIC4127YML TR	576-2716-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver ***NEW!***	8-MLF	6250.00/5,000		
MIC4128YME	576-1450-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	2.25	1.80	1.35
MIC4128YML TR	576-2717-1-ND	Dual 1.5A MOSFET Driver ***NEW!***	8-MLF	2.25	1.80	1.40
MIC4128YML TR	576-2717-2-ND	Dual 1.5A MOSFET Driver ***NEW!***	8-MLF	6250.00/5,000		
MIC4129YME	576-1446-ND	6A Peak Low-Side MOSFET Driver	8-SOIC	2.08	1.66	1.25
MIC4416YM4 TR	576-1187-1-ND	IttyBitty™ Low-Side MOSFET Driver	SOT-143	1.29	1.08	.86
MIC4416YM4 TR	576-1187-2-ND	IttyBitty™ Low-Side MOSFET Driver	SOT-143	1677.00/3,000		
MIC4417YM4 TR	576-1188-1-ND	IttyBitty™ Low-Side MOSFET Driver	SOT-143	1.29	1.08	.86
MIC4417YM4 TR	576-1188-2-ND	IttyBitty™ Low-Side MOSFET Driver	SOT-143	1677.00/3,000		
MIC4420YM TR	576-1189-1-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1.43	1.14	.86
MIC4420YM TR	576-1189-2-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1825.00/2,500		
MIC4420YN	576-1190-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	1.70	1.36	1.02
MIC4420ZM	576-1191-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1.35	1.08	.81
MIC4420ZN	576-1192-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	1.63	1.30	.98
MIC4421YM	576-1193-ND	9A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1.55	1.24	.93
MIC4421ZN	576-1520-5-ND	9A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	1.78	1.42	1.07
MIC4421ZT	576-1521-5-ND	9A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	TO-220-5	3.13	2.51	1.95
MIC4422YM TR	576-1194-1-ND	9A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1.55	1.24	.93
MIC4422YM TR	576-1194-2-ND	9A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1985.00/2,500		
MIC4422YN	576-1195-ND	9A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	1.85	1.48	1.11
MIC4423YN	576-1196-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.48	1.98	1.49
MIC4423ZN	576-1197-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.35	1.88	1.41
MIC4424YM	576-1198-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1.58	1.26	.95
MIC4424YM TR	576-1546-1-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1.58	1.26	.95
MIC4424YM TR	576-1546-2-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	2016.00/2,500		
MIC4424YN	576-1199-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.48	1.98	1.49
MIC4424ZN	576-1200-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.35	1.88	1.41
MIC4425YN	576-1201-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.48	1.98	1.49
MIC4426YM	576-1523-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.43	1.14	.86
MIC4426YM TR	576-1202-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.43	1.14	.86
MIC4426YM TR	576-1202-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1825.00/2,500		
MIC4426YMM	576-1524-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MSOP	1.63	1.30	.98
MIC4426YN	576-1203-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-Dip	1.70	1.36	1.02
MIC4427YM	576-1525-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.43	1.14	.86
MIC4427YM TR	576-1204-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.43	1.14	.86
MIC4427YM TR	576-1204-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1825.00/2,500		
MIC4427YMM TR	576-1547-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MSOP	1.63	1.30	.98
MIC4427YMM TR	576-1547-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MSOP	2080.00/2,500		
MIC4427YN	576-1205-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-Dip	1.70	1.36	1.02
MIC4427ZM TR	576-1548-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.35	1.08	.81
MIC4427ZM TR	576-1548-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1728.00/2,500		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

MOSFET DRIVERS *(Continued)*
RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC4427ZN	576-1526-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-Dip	1.63	1.30	.98
MIC4428YM TR	576-1206-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.43	1.14	.86
MIC4428YM TR	576-1206-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1825.00/2,500		
MIC4428YMM	576-1527-5-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-MSOP	1.63	1.30	.98
MIC4429YM	576-1528-5-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1.43	1.14	.86
MIC4429ZN	576-1207-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	1.63	1.30	.98
MIC4451YM	576-1208-ND	12A Peak Low-Side MOSFET Driver	8-SOIC	2.03	1.62	1.22
MIC4451YN	576-1209-ND	12A Peak Low-Side MOSFET Driver	8-Dip	2.43	1.94	1.46
MIC4451ZT	576-1529-5-ND	12A Peak Low-Side MOSFET Driver	TO-220-5	3.96	3.17	2.47
MIC4452YM	576-1530-5-ND	12A Peak Low-Side MOSFET Driver	8-SOIC	2.03	1.62	1.22
MIC4452YM TR	576-1210-1-ND	12A Peak Low-Side MOSFET Driver	8-SOIC	2.03	1.62	1.22
MIC4452YM TR	576-1210-2-ND	12A Peak Low-Side MOSFET Driver	8-SOIC	2592.50/2,500		
MIC4452YN	576-1211-ND	12A Peak Low-Side MOSFET Driver	8-Dip	2.43	1.94	1.46
MIC4452ZT	576-1212-ND	12A Peak Low-Side MOSFET Driver	TO-220-5	3.96	3.17	2.47
MIC4468ZWM	576-1213-ND	Quad 1.2A Peak Low-Side MOSFET Driver	16-SOIC	4.01	3.21	2.50
MIC4469YN	576-1214-ND	Quad 1.2A Peak Low-Side MOSFET Driver	14-Dip	4.21	3.37	2.62
MIC4469YWM	576-1215-ND	Quad 1.2A Peak Low-Side MOSFET Driver	16-SOIC	4.21	3.37	2.62
MIC5011YM	576-1230-ND	Minimum Parts High/Low-Side MOSFET Driver	8-SOIC	3.51	2.81	2.19
MIC5013YM	576-1231-ND	Protected High/Low-Side MOSFET Driver	8-SOIC	3.51	2.81	2.19
MIC5013YN	576-1232-ND	Protected High/Low-Side MOSFET Driver	8-Dip	4.21	3.37	2.62
MIC5014YM TR	576-1233-1-ND	High/Low-Side MOSFET Driver	8-SOIC	2.05	1.64	1.23
MIC5014YM TR	576-1233-2-ND	High/Low-Side MOSFET Driver	8-SOIC	2625.00/2,500		
MIC5014YN	576-1234-ND	High/Low-Side MOSFET Driver	8-Dip	2.48	1.98	1.49
MIC5015YM	576-1235-ND	High/Low-Side MOSFET Driver	8-SOIC	2.05	1.64	1.23
MIC5018YM4 TR	576-1238-1-ND	IttyBitty™ High-Side MOSFET Driver	SOT-143	1.55	1.24	.93
MIC5018YM4 TR	576-1238-2-ND	IttyBitty™ High-Side MOSFET Driver	SOT-143	2382.00/3,000		
MIC5021YM TR	576-1239-1-ND	High Speed, High-Side MOSFET Driver	8-SOIC	2.30	1.84	1.38
MIC5021YM TR	576-1239-2-ND	High Speed, High-Side MOSFET Driver	8-SOIC	2945.00/2,500		
MIC5021YN	576-1240-ND	High Speed, High-Side MOSFET Driver	8-Dip	2.50	2.00	1.56

OPERATIONAL AMPS
RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMC7101AYM5 TR	576-2574-1-ND	Low Power Op Amp ***NEW!***	SOT-23-5	.88	.66	.50
LMC7101AYM5 TR	576-2574-2-ND	Low Power Op Amp ***NEW!***	SOT-23-5	858.00/3,000		
LMC7101BYM5 TR	576-2575-1-ND	Low Power Op Amp ***NEW!***	SOT-23-5	.68	.51	.39
LMC7101BYM5 TR	576-2575-2-ND	Low Power Op Amp ***NEW!***	SOT-23-5	663.00/3,000		
MIC860YC5 TR	576-2931-1-ND	Teeny™ Ultra Low Power Op Amp ***NEW!***	SC70-5	1.35	1.13	.90
MIC860YC5 TR	576-2931-2-ND	Teeny™ Ultra Low Power Op Amp ***NEW!***	SC70-5	1755.00/3,000		
MIC861YC5 TR	576-2932-1-ND	Teeny™ Ultra Low Power Op Amp ***NEW!***	SC70-5	1.35	1.13	.90
MIC861YC5 TR	576-2932-2-ND	Teeny™ Ultra Low Power Op Amp ***NEW!***	SC70-5	1755.00/3,000		
MIC862YM8 TR	576-2933-1-ND	Dual Ultra Low Power Op Amp ***NEW!***	SOT-23-8	1.73	1.38	1.04
MIC862YM8 TR	576-2933-2-ND	Dual Ultra Low Power Op Amp ***NEW!***	SOT-23-8	2649.00/3,000		
MIC863YM8 TR	576-2934-1-ND	Dual Ultra Low Power Op Amp ***NEW!***	SOT-23-8	1.58	1.26	.95
MIC863YM8 TR	576-2934-2-ND	Dual Ultra Low Power Op Amp ***NEW!***	SOT-23-8	2418.00/3,000		
MIC910YM5 TR	576-2935-1-ND	135MHz, 2.4mA Low Power Op Amp ***NEW!***	SOT-23-5	1.58	1.26	.95
MIC910YM5 TR	576-2935-2-ND	135MHz, 2.4mA Low Power Op Amp ***NEW!***	SOT-23-5	2418.00/3,000		
MIC911YM5 TR	576-3000-1-ND	105MHz, 1.25mA LP Op Amp ***NEW!***	SOT-23-5	1.58	1.26	.95
MIC911YM5 TR	576-3000-2-ND	105MHz, 1.25mA LP Op Amp ***NEW!***	SOT-23-5	2418.00/3,000		
MIC6211YM5 TR	576-1314-1-ND	IttyBitty™ Operational Amp	SOT-23-5	.80	.60	.45
MIC6211YM5 TR	576-1314-2-ND	IttyBitty™ Operational Amp	SOT-23-5	780.00/3,000		
MIC7111YM5 TR	576-2900-1-ND	1.8V, IttyBitty™ R-R Input/Output Op Amp ***NEW!***	SOT-23-5	.75	.63	.50
MIC7111YM5 TR	576-2900-2-ND	1.8V, IttyBitty™ R-R Input/Output Op Amp ***NEW!***	SOT-23-5	975.00/3,000		
MIC7122YMM TR	576-1317-1-ND	Rail-to-Rail Dual Op Amp	8-MSOP	1.33	1.06	.80
MIC7122YMM TR	576-1317-2-ND	Rail-to-Rail Dual Op Amp	8-MSOP	1695.00/2,500		
MIC7221YM5 TR	576-2901-1-ND	IttyBitty™ R-R Input Comparator ***NEW!***	SOT-23-5	.68	.51	.39
MIC7221YM5 TR	576-2901-2-ND	IttyBitty™ R-R Input Comparator ***NEW!***	SOT-23-5	663.00/3,000		
MIC7300YM5 TR	576-1319-1-ND	High Output Driver R/R Op Amp	SOT-23-5	.72	.54	.41
MIC7300YM5 TR	576-1319-2-ND	High Output Driver R/R Op Amp	SOT-23-5	702.00/3,000		
SY88147DLKG	576-1614-ND	3.3V, 1.25Gbps PECL Limiting Post Amp	10-MSOP	5.58	4.47	3.48
SY88149CLKG	576-1471-1-ND	3.3V, 1.25Gbps PECL Limiting Post Amp	10-MSOP	5.22	4.18	3.53
SY88149CLKG	576-1471-2-ND	3.3V, 1.25Gbps PECL Limiting Post Amp	10-MSOP	3263.00/1,000		
SY88289ALMG	576-1600-ND	3.3V, 3.2Gbps CML Low Power Limiting Post Amp	16-MLF	5.76	4.61	3.89
SY88289CLMG	576-1601-ND	3.3V, 3.2Gbps CML Limiting Post Amp	16-MLF	5.76	4.61	3.89
SY88289HLMG	576-2966-5-ND	3.3V, 3.2Gbps CML Limiting Post Amp ***NEW!***	16-MLF	5.04	4.04	3.14
SY88303BLEY	576-2988-ND	3.3V, 3.2Gbps CML Limiting Post Amp ***NEW!***	10-MSOP	5.04	4.04	3.14
SY88303BLMG	576-3060-ND	3.3V, 3.2Gbps CML Limiting Post Amp ***NEW!***	16-MLF	5.04	4.04	3.14
SY88305BLEY	576-3059-ND	3.3V, 3.2Gbps CML Limiting Post Amp ***NEW!***	10-MSOP	5.04	4.04	3.14
SY88305BLMG	576-3056-ND	3.3V, 3.2Gbps CML Limiting Post Amp ***NEW!***	16-MLF	5.04	4.04	3.14
SY88307BLEY	576-2967-5-ND	3.3V, 3.2Gbps PECL Limiting Post Amp ***NEW!***	10-MSOP	5.04	4.04	3.14
SY88307BLMG	576-3054-ND	3.3V, 3.2Gbps PECL Limiting Post Amp ***NEW!***	16-MLF	5.04	4.04	3.14
SY88309BLEY	576-2968-5-ND	3.3V, 3.2Gbps PECL Limiting Post Amp ***NEW!***	10-MSOP	5.04	4.04	3.14
SY88309BLMG	576-3055-ND	3.3V, 3.2Gbps PECL Limiting Post Amp ***NEW!***	16-MLF	5.04	4.04	3.14
SY88315BLMG	576-1472-1-ND	3.3V, 3.2Gbps CML Low Power Limiting Post Amp	16-MLF	5.76	4.61	3.89
SY88315BLMG	576-1472-2-ND	3.3V, 3.2Gbps CML Low Power Limiting Post Amp	16-MLF	3600.00/1,000		
SY88343BLMG	576-1473-1-ND	3.3V, 3.2Gbps CML Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88343BLMG	576-1473-2-ND	3.3V, 3.2Gbps CML Limiting Post Amp	16-MLF	1854.00/500		
SY88343HLMG	576-3058-ND	3.3V, 3.2Gbps CML Limiting Post Amp ***NEW!***	16-MLF	5.04	4.04	3.14
SY88343DLMG	576-1587-ND	3.3V, 3.2Gbps CML Limiting Post Amp	16-MLF	5.84	4.68	3.95
SY88345BLEY	576-1602-ND	3.3V, 3.2Gbps CML Low Power Limiting Post Amp	10-MSOP	5.76	4.61	3.89
SY88347DLEY	576-1504-ND	3.3V, 3.2Gbps PECL Limiting Post Amp	10-MSOP	5.76	4.61	3.89
SY88353BLMG	576-1505-ND	3.3V, 3.2Gbps Limiting Post Amp	16-MLF	7.46	5.97	5.04
SY88403BLMG	576-1474-1-ND	3.3V, 4.25Gbps CML Low Power Limiting Post Amp	16-MLF	9.92	7.94	6.70
SY88403BLMG	576-1474-2-ND	3.3V, 4.25Gbps CML Low Power Limiting Post Amp	16-MLF	6200.00/1,000		
SY88773VMG	576-1409-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	16-MLF	5.76	4.61	3.89
SY88843VMG	576-1411-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	16-MLF	6.22	4.98	4.20
SY88933ALKG	576-1451-ND	3.3V, 1.25Gbps PECL High Sensitivity Limiting Post Amp	10-MSOP	5.22	4.18	3.53
SY88933VKG TR	576-1412-1-ND	3.3V/5V 1.25Gbps PECL Low Power Limiting Post Amp	10-MSOP	5.98	4.79	4.04
SY88973VMG	576-1414-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	10-MSOP	5.48	4.39	3.70
SY88993AVKG TR	576-1415-1-ND	5V/3.3V 3.2 Gbps High Speed Limiting Post Amp	10-MSOP	5.22	4.18	3.53
SY88993AVKG TR	576-1415-2-ND	5V/3.3V 3.2 Gbps High Speed Limiting Post Amp	10-MSOP	3263.00/1,000		

POWER SWITCHES
RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2562A-0YM TR	576-1089-1-ND	PCMCIA/CardBus Socket Power Controller	14-SOIC	2.30	1.84	1.38
MIC2562A-0YM TR	576-1089-2-ND	PCMCIA/CardBus Socket Power Controller	14-SOIC	2945.00/2,500		
MIC2562A-1YM	576-1090-ND	PCMCIA/CardBus Socket Power Controller	14-SOIC	2.30	1.84	1.38
MIC2563A-1YSM	576-1091-ND	Dual-Slot PCMCIA/CardBus Power Controller	28-SSOP	3.42	2.74	2.13
MIC2569YQS	576-2989-ND	CableCARD™ Power Switch ***NEW!***	16-QSOP	4.12	3.30	2.57

REFERENCES
RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM4040CYM3-2.5 TR	576-1046-1-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	.72	.54	.41
LM4040CYM3-2.5 TR	576-1046-2-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	702.00/3,000		
LM4040CYM3-4.1 TR	576-2568-1-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	.72	.54	.41
LM4040CYM3-4.1 TR	576-2568-2-ND	4.096V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	702.00/3,000		
LM4040CYM3-5.0 TR	576-2569-1-ND	5.0V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	.72	.54	.41
LM4040CYM3-5.0 TR	576-2569-2-ND	5.0V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	702.00/3,000		
LM4040DYM3-2.5 TR	576-1047-1-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	.60	.45	.34
LM4040DYM3-2.5 TR	576-1047-2-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	585.00/3,000		
LM4040DYM3-4.1 TR	576-1048-1-ND	4.096V, Precision Micropower Shunt Voltage Reference	SOT-23	.60	.45	.34
LM4040DYM3-4.1 TR	576-1048-2-ND	4.096V, Precision Micropower Shunt Voltage Reference	SOT-23	585.00/3,000		
LM4040DYM3-5.0 TR	576-2570-1-ND	5.0V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	.60	.45	.34
LM4040DYM3-5.0 TR	576-2570-2-ND	5.0V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	585.00/3,000		
LM4041CYM3-ADJ TR	576-1049-1-ND	Adj., Prec. MPU Shunt Volt. Ref.	SOT-23	.72	.54	.41
LM4041CYM3-ADJ TR	576-1049-2-ND	Adj., Prec. MPU Shunt Volt. Ref.	SOT-23	702.00/3,000		
LM4041CYM3-1.2 TR	576-2571-1-ND	1.225V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	.72	.54	.41
LM4041CYM3-1.2 TR	576-2571-2-ND	1.225V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	702.00/3,000		
LM4041DYM3-1.2 TR	576-2572-1-ND	1.225V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	.60	.45	.34
LM4041DYM3-1.2 TR	576-2572-2-ND	1.225V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	585.00/3,000		
LM4041DYM3-ADJ TR	576-2573-1-ND	Adj. Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	.60	.45	.34
LM4041DYM3-ADJ TR	576-2573-2-ND	Adj. Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	585.00/3,000		

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC809-5SUY TR	576-2903-1-ND	2.93V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	.80	.60	.45
MIC809-5SUY TR	576-2903-2-ND	2.93V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	780.00/3,000		
MIC809-5SYC3 TR	576-2904-1-ND	2.93V, Microprocessor Supervisory Circuit ***NEW!***	SC-70	.96	.72	.54
MIC809-5SYC3 TR	576-2904-2-ND	2.93V, Microprocessor Supervisory Circuit ***NEW!***	SC-70	936.00/3,000		
MIC809JUY TR	576-2905-1-ND	4.0V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	.80	.60	.45
MIC809JUY TR	576-2905-2-ND	4.0V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	780.00/3,000		
MIC809LUY TR	576-2906-1-ND	4.63V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	.80	.60	.45
MIC809LUY TR	576-2906-2-ND	4.63V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	780.00/3,000		
MIC809MUY TR	576-2907-1-ND	4.38V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	.80	.60	.45
MIC809MUY TR	576-2907-2-ND	4.38V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	780.00/3,000		
MIC809RUY TR	576-1321-1-ND	2.63V Microprocessor Reset Circuit	SOT-23	.80	.60	.45
MIC809RUY TR	576-1321-2-ND	2.63V Microprocessor Reset Circuit	SOT-23	780.00/3,000		
MIC809RYC3 TR	576-1442-1-ND	2.63V Microprocessor Reset Circuit	SC70	.96	.72	.54
MIC809RYC3 TR	576-1442-2-ND	2.63V Microprocessor Reset Circuit	SC70	936.00/3,000		
MIC809SUY TR	576-2908-1-ND	2.93V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	.80	.60	.45
MIC809SUY TR	576-2908-2-ND	2.93V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	780.00/3,000		
MIC809TUY TR	576-2909-1-ND	3.08V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	.80	.60	.45
MIC809TUY TR	576-2909-2-ND	3.08V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	780.00/3,000		
MIC810LUY TR	576-2910-1-ND	4.63V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	.80	.60	.45
MIC810LUY TR	576-2910-2-ND	4.63V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	780.00/3,000		
MIC810MUY TR	576-2911-1-ND	4.38V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	.80	.60	.45
MIC810MUY TR	576-2911-2-ND	4.38V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	780.00/3,000		
MIC810RUY TR	576-2912-1-ND	2.63V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	.80	.60	.45
MIC810RUY TR	576-2912-2-ND	2.63V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	780.00/3,000		
MIC810RYC3 TR	576-1443-1-ND	2.63V Microprocessor Reset Circuit	SC70	.96	.72	.54
MIC810RYC3 TR	576-1443-2-ND	2.63V Microprocessor Reset Circuit	SC70	936.00/3,000		
MIC810TUY TR	576-2913-1-ND	3.08V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	.80	.60	.45
MIC810TUY TR	576-2913-2-ND	3.08V, Microprocessor Supervisory Circuit ***NEW!***	SOT-23	780.00/3,000		
MIC811JUY TR	576-2914-1-ND	4.0V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	.96	.72	.54
MIC811JUY TR	576-2914-2-ND	4.0V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	936.00/3,000		
MIC811LUY TR	576-1324-1-ND	4.63V Microprocessor Reset Circuit	SOT-143	.96	.72	.54
MIC811LUY TR	576-1324-2-ND	4.63V Microprocessor Reset Circuit	SOT-143	936.00/3,000		
MIC811MUY TR	576-2915-1-ND	4.38V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	.96	.72	.54
MIC811MUY TR	576-2915-2-ND	4.38V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	936.00/3,000		
MIC811RUY TR	576-2916-1-ND	2.63V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	.96	.72	.54
MIC811RUY TR	576-2916-2-ND	2.63V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	936.00/3,000		
MIC811SUY TR	576-1325-1-ND	2.93V Microprocessor Reset Circuit	SOT-143	.96	.72	.54
MIC811SUY TR	576-1325-2-ND	2.93V Microprocessor Reset Circuit	SOT-143	936.00/3,000		
MIC811TUY TR	576-1326-1-ND	3.08V Microprocessor Reset Circuit	SOT-143	.96	.72	.54
MIC811TUY TR	576-1326-2-ND	3.08V Microprocessor Reset Circuit	SOT-143	936.00/3,000		
MIC812LUY TR	576-2917-1-ND	4.63V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	.96	.72	.54
MIC812LUY TR	576-2917-2-ND	4.63V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	936.00/3,000		
MIC812MUY TR	576-2918-1-ND	4.38V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	.96	.72	.54
MIC812MUY TR	576-2918-2-ND	4.38V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	936.00/3,000		
MIC812SUY TR	576-2919-1-ND	2.93V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	.96	.72	.54
MIC812SUY TR	576-2919-2-ND	2.93V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	936.00/3,000		
MIC812TUY TR	576-2920-1-ND	3.08V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	.96	.72	.54
MIC812TUY TR	576-2920-2-ND	3.08V, Microprocessor Supervisory Circuit ***NEW!***	SOT-143-4	936.00/3,000		
MIC1232MY TR	576-1053-1-ND	µP Supervisory Circuit	8-SOIC	1.45	1.16	.87
MIC1232MY TR	576-1053-2-ND	µP Supervisory Circuit	8-SOIC	1855.00/2,500		
MIC1810-5UY TR	576-2578-1-ND	Microprocessor Reset Circuit ***NEW!***	SOT-23	.93	.78	.62
MIC1810-5UY TR	576-2578-2-ND	Microprocessor Reset Circuit ***NEW!***	SOT-23	1209.00/3,000		
MIC1810-10UY TR	576-2577-1-ND	Microprocessor Reset Circuit ***NEW!***	SOT-23	.93	.78	.62
MIC1810-10UY TR	576-2577-2-ND	Microprocessor Reset Circuit ***NEW!***	SOT-23	1209.00/3,000		
MIC1815-10UY TR	576-1056-1-ND	Microprocessor Reset Circuit	SOT-23	.93	.78	.62
MIC1815-10UY TR	576-1056-2-ND	Microprocessor Reset Circuit	SOT-23	1209.00/3,000		
MIC1815-20UY TR	576-2579-1-ND	Microprocessor Reset Circuit ***NEW!***	SOT-23	.93	.78	.62
MIC1815-20UY TR	576-2579-2-ND	Microprocessor Reset Circuit ***NEW!***	SOT-23	1209.00/3,000		
MIC2772-L3L3YML TR	576-2665-1-ND	4.63V, Dual Voltage Supervisor ***NEW!***	8-MLF	1.25	1.00	.75
MIC2772-L3L3YML TR	576-2665-2-ND	4.63V, Dual Voltage Supervisor ***NEW!***	8-MLF	3125.00/5,000		
MIC2774H-29YM5 TR	576-2666-1-ND	2.93V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774H-29YM5 TR	576-2666-2-ND	2.93V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774L-17YM5 TR	576-2667-1-ND	1.69V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774L-17YM5 TR	576-2667-2-ND	1.69V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774L-22YM5 TR	576-2668-1-ND	2.25V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774L-22YM5 TR	576-2668-2-ND	2.25V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774L-25YM5 TR	576-2669-1-ND	2.53V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774L-25YM5 TR	576-2669-2-ND	2.53V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774L-29YM5 TR	576-2670-1-ND	2.93V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774L-29YM5 TR	576-2670-2-ND	2.93V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774L-31YM5 TR	576-2671-1-ND	3.09V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774L-31YM5 TR	576-2671-2-ND	3.09V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774L-44YM5 TR	576-2672-1-ND	4.43V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774L-44YM5 TR	576-2672-2-ND	4.43V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774L-46YM5 TR	576-2673-1-ND	4.68V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774L-46YM5 TR	576-2673-2-ND	4.68V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774N-17YM5 TR	576-2674-1-ND	1.69V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774N-17YM5 TR	576-2674-2-ND	1.69V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774N-22YM5 TR	576-2675-1-ND	2.25V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774N-22YM5 TR	576-2675-2-ND	2.25V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774N-23YM5 TR	576-2676-1-ND	2.34V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774N-23YM5 TR	576-2676-2-ND	2.34V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774N-28YM5 TR	576-2677-1-ND	2.81V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774N-28YM5 TR	576-2677-2-ND	2.81V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774N-29YM5 TR	576-1101-1-ND	2.93V, Dual µP Low Volt. Supervisor	SOT-23-5	1.35	1.13	.90
MIC2774N-29YM5 TR	576-1101-2-ND	2.93V, Dual µP Low Volt. Supervisor	SOT-23-5	1755.00/3,000		
MIC2774N-31YM5 TR	576-1102-1-ND	3.09V, Dual µP Low Volt. Supervisor	SOT-23-5	1.35	1.13	.90
MIC2774N-31YM5 TR	576-1102-2-ND	3.09V, Dual µP Low Volt. Supervisor	SOT-23-5	1755.00/3,000		
MIC2774N-44YM5 TR	576-2678-1-ND	4.43V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774N-44YM5 TR	576-2678-2-ND	4.43V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2774N-46YM5 TR	576-2679-1-ND	4.68V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.35	1.13	.90
MIC2774N-46YM5 TR	576-2679-2-ND	4.68V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1755.00/3,000		
MIC2775-28YM5 TR	576-2680-1-ND	2.81V, µP Voltage Supervisor ***NEW!***	SOT-23-5	1.17	.98	.78
MIC2775-28YM5 TR	576-2680-2-ND	2.81V, µP Voltage Supervisor ***NEW!***	SOT-23-5	1521.00/3,000		
MIC2775-29YM5 TR	576-2681-1-ND	2.93V, µP Voltage Supervisor ***NEW!***	SOT-23-5	1.17	.98	.78
MIC2775-29YM5 TR	576-2681-2-ND	2.93V, µP Voltage Supervisor ***NEW!***	SOT-23-5	1521.00/3,000		
MIC2775-31YM5 TR	576-2682-1-ND	3.09V, µP Voltage Supervisor ***NEW!***	SOT-23-5	1.17	.98	.78
MIC2775-31YM5 TR	576-2682-2-ND	3.09V, µP Voltage Supervisor ***NEW!***	SOT-23-5	1521.00/3,000		
MIC2775-44YM5 TR	576-2683-1-ND	4.43V, µP Voltage Supervisor ***NEW!***	SOT-23-5	1.17	.98	.78
MIC2775-44YM5 TR	576-2683-2-ND	4.43V, µP Voltage Supervisor ***NEW!***	SOT-23-5	1521.00/3,000		
MIC2775-46YM5 TR	576-2684-1-ND	4.68V, µP Voltage Supervisor ***NEW!***	SOT-23-5	1.17	.98	.78
MIC2775-46YM5 TR	576-2684-2-ND	4.68V, µP Voltage Supervisor ***NEW!***	SOT-23-5	1521.00/3,000		
MIC2776H-YM5 TR	576-2685-1-ND	µP Low Voltage Supervisor ***NEW!***	SOT-23-5	1.26	1.05	.84
MIC2776H-YM5 TR	576-2685-2-ND	µP Low Voltage Supervisor ***NEW!***	SOT-23-5	1638.00/3,000		
MIC2776L-YM5 TR	576-2686-1-ND	µP Low Voltage Supervisor ***NEW!***	SOT-23-5	1.26	1.05	.84
MIC2776L-YM5 TR	576-2686-2-ND	µP Low Voltage Supervisor ***NEW!***	SOT-23-5	1638.00/3,000		
MIC2776N-YM5 TR	576-1103-1-ND	µP Low Voltage Supervisor	SOT-23-5	1.26	1.05	.84
MIC2776N-YM5 TR	576-1103-2-ND	µP Low Voltage Supervisor	SOT-23-5	1638.00/3,000		
MIC2777-29YM5 TR	576-2687-1-ND	2.93V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.47	1.23	.98
MIC2777-29YM5 TR	576-2687-2-ND	2.93V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1911.00/3,000		
MIC2777-31YM5 TR	576-2688-1-ND	3.09V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.47	1.23	.98
MIC2777-31YM5 TR	576-2688-2-ND	3.09V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1911.00/3,000		
MIC2777-46YM5 TR	576-2689-1-ND	4.68V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1.47	1.23	.98
MIC2777-46YM5 TR	576-2689-2-ND	4.68V, Dual Micro-Power Low Voltage Supervisor ***NEW!***	SOT-23-5	1911.00/3,000		
MIC2778-1YM5 TR	576-2690-1-ND	Voltage Monitor with Adjustable Hysteresis ***NEW!***	SOT-23-5	1.45	1.16	.87
MIC2778-1YM5 TR	576-2690-2-ND	Voltage Monitor with Adjustable Hysteresis ***NEW!***	SOT-23-5	2226.00/3,000		
MIC2778-2YM5 TR	576-2691-1-ND	Voltage Monitor with Adjustable Hysteresis ***NEW!***	SOT-23-5	1.45	1.16	.87
MIC2778-2YM5 TR	576-2691-2-ND	Voltage Monitor with Adjustable Hysteresis ***NEW!***	SOT-23-5	2226.00/3,000		
MIC2779H-1YM5 TR	576-2692-1-ND	Voltage Monitor with Adjustable Hysteresis ***NEW!***	SOT-23-5	1.53	1.22	.92
MIC2779H-1YM5 TR	576-2692-2-ND	Voltage Monitor with Adjustable Hysteresis ***NEW!***	SOT-23-5	2343.00/3,000		
MIC2779L-1YM5 TR	576-2693-1-ND	Voltage Monitor with Adjustable Hysteresis ***NEW!***	SOT-23-5	1.53	1.22	.92
MIC2779L-1YM5 TR	576-2693-2-ND	Voltage Monitor with Adjustable Hysteresis ***NEW!***	SOT-23-5	2343.00/3,000		
MIC2779L-2YM5 TR	576-2694-1-ND	Voltage Monitor with Adjustable Hysteresis ***NEW!***	SOT-23-5	1.53	1.22	.92
MIC2779L-2YM5 TR	576-2694-2-ND	Voltage Monitor with Adjustable Hysteresis ***NEW!***	SOT-23-5	2343.00/3,000		
MIC6315-26D2UY TR	576-2885-1-ND	2.63V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	.78	.65	.52

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SUPERVISORS *(Continued)*

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC6315-26D2UY TR	576-2885-2-ND	2.63V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	1014.00/3,000		
MIC6315-26D3UY TR	576-2886-1-ND	2.63V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	.78	.65	.52
MIC6315-26D3UY TR	576-2886-2-ND	2.63V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	1014.00/3,000		
MIC6315-29D3UY TR	576-2887-1-ND	2.93V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	.78	.65	.52
MIC6315-29D3UY TR	576-2887-2-ND	2.93V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	1014.00/3,000		
MIC6315-29D4UY TR	576-2888-1-ND	2.93V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	.78	.65	.52
MIC6315-29D4UY TR	576-2888-2-ND	2.93V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	1014.00/3,000		
MIC6315-30D2UY TR	576-2889-1-ND	3.0V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	.78	.65	.52
MIC6315-30D2UY TR	576-2889-2-ND	3.0V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	1014.00/3,000		
MIC6315-30D3UY TR	576-2890-1-ND	3.0V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	.78	.65	.52
MIC6315-30D3UY TR	576-2890-2-ND	3.0V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	1014.00/3,000		
MIC6315-31D2UY TR	576-2891-1-ND	3.08V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	.78	.65	.52
MIC6315-31D2UY TR	576-2891-2-ND	3.08V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	1014.00/3,000		
MIC6315-31D3UY TR	576-2892-1-ND	3.08V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	.78	.65	.52
MIC6315-31D3UY TR	576-2892-2-ND	3.08V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	1014.00/3,000		
MIC6315-31D4UY TR	576-2893-1-ND	3.08V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	.78	.65	.52
MIC6315-31D4UY TR	576-2893-2-ND	3.08V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	1014.00/3,000		
MIC6315-46D3UY TR	576-2894-1-ND	4.63V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	.78	.65	.52
MIC6315-46D3UY TR	576-2894-2-ND	4.63V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	1014.00/3,000		
MIC6315-46D4UY TR	576-2895-1-ND	4.63V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	.78	.65	.52
MIC6315-46D4UY TR	576-2895-2-ND	4.63V Open-Drain µP Reset Generator ***NEW!***	SOT-143-4	1014.00/3,000		
MIC8114TUY TR	576-1322-1-ND	3.08V Microprocessor Reset Circuit	SOT-143	.80	.60	.45
MIC8114TUY TR	576-1322-2-ND	3.08V Microprocessor Reset Circuit	SOT-143	780.00/3,000		
MIC8115TUY TR	576-1323-1-ND	3.08V Microprocessor Reset Circuit	SOT-143	.80	.60	.45
MIC8115TUY TR	576-1323-2-ND	3.08V Microprocessor Reset Circuit	SOT-143	780.00/3,000		

TIMERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC1555YM5 TR	576-2576-1-ND	IttyBitty™ RC Timer/ Oscillator ***NEW!***	SOT-23-5	.90	.75	.60
MIC1555YM5 TR	576-2576-2-ND	IttyBitty™ RC Timer/ Oscillator ***NEW!***	SOT-23-5	1170.00/3,000		
MIC1557YM5 TR	576-1055-1-ND	IttyBitty™ RC Timer/Oscillator	SOT-23-5	.90	.75	.60
MIC1557YM5 TR	576-1055-2-ND	IttyBitty™ RC Timer/Oscillator	SOT-23-5	1170.00/3,000		

USB TRANSCEIVERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2550AYML TR	576-2661-1-ND	USB Transceiver ***NEW!***	16-MLF	1.40	1.12	.84
MIC2550AYML TR	576-2661-2-ND	USB Transceiver ***NEW!***	16-MLF	3500.00/5,000		
MIC2550YML TR	576-2662-1-ND	USB Transceiver ***NEW!***	16-MLF	1.50	1.20	.90
MIC2550YML TR	576-2662-2-ND	USB Transceiver ***NEW!***	16-MLF	3750.00/5,000		
MIC2551AYML TR	576-2663-1-ND	USB Transceiver ***NEW!***	16-MLF	1.40	1.12	.84
MIC2551AYML TR	576-2663-2-ND	USB Transceiver ***NEW!***	16-MLF	3500.00/5,000		
MIC2551AYML25 TR	576-2664-1-ND	USB Transceiver ***NEW!***	16-MLF	1.40	1.12	.84
MIC2551AYML25 TR	576-2664-2-ND	USB Transceiver ***NEW!***	16-MLF	3500.00/5,000		
MIC2555-0YML TR	576-1087-1-ND	USB - OTG Transceiver	24-MLF	3.04	2.43	1.89
MIC2555-0YML TR	576-1087-2-ND	USB - OTG Transceiver	24-MLF	1721.00/1,000		
MIC2555-1YML TR	576-1088-1-ND	USB - OTG Transceiver	24-MLF	3.53	2.83	2.20
MIC2555-1YML TR	576-1088-2-ND	USB - OTG Transceiver	24-MLF	2002.00/1,000		

USB/GENERAL PURPOSE SWITCHES

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2003-0.5YM5 TR	576-2580-1-ND	Current Limiting Circuit Protector ***NEW!***	SOT-23-5	1.44	1.20	.96
MIC2003-0.5YM5 TR	576-2580-2-ND	Current Limiting Circuit Protector ***NEW!***	SOT-23-5	1872.00/3,000		
MIC2003-1.2YML TR	576-2581-1-ND	Current Limiting Circuit Protector ***NEW!***	6-MLF	1.45	1.16	.87
MIC2003-1.2YML TR	576-2581-2-ND	Current Limiting Circuit Protector ***NEW!***	6-MLF	3625.00/5,000		
MIC2004-0.5YM5 TR	576-2582-1-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-5	1.44	1.20	.96
MIC2004-0.5YM5 TR	576-2582-2-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-5	1872.00/3,000		
MIC2004-0.8YM5 TR	576-2583-1-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-5	1.44	1.20	.96
MIC2004-0.8YM5 TR	576-2583-2-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-5	1872.00/3,000		
MIC2004-1.2YM5 TR	576-2584-1-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-5	1.44	1.20	.96
MIC2004-1.2YM5 TR	576-2584-2-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-5	1872.00/3,000		
MIC2004-1.2YML TR	576-2585-1-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	6-MLF	1.45	1.16	.87
MIC2004-1.2YML TR	576-2585-2-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	6-MLF	3625.00/5,000		
MIC2005-0.5YM6 TR	576-2586-1-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1.30	1.04	.78
MIC2005-0.5YM6 TR	576-2586-2-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1998.00/3,000		
MIC2005-0.8YM6 TR	576-2587-1-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1.30	1.04	.78
MIC2005-0.8YM6 TR	576-2587-2-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1998.00/3,000		
MIC2005-0.8YML TR	576-2588-1-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	6-MLF	1.55	1.24	.93
MIC2005-0.8YML TR	576-2588-2-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	6-MLF	3875.00/5,000		
MIC2005-1.2YM6 TR	576-2589-1-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1.30	1.04	.78
MIC2005-1.2YM6 TR	576-2589-2-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1998.00/3,000		
MIC2005-1.2YML TR	576-2590-1-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	6-MLF	1.55	1.24	.93
MIC2005-1.2YML TR	576-2590-2-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	6-MLF	3875.00/5,000		
MIC2007YM6 TR	576-1460-1-ND	Adj. Current Limit Power Distribution Switch	SOT-23-6	1.65	1.32	.99
MIC2007YM6 TR	576-1460-2-ND	Adj. Current Limit Power Distribution Switch	SOT-23-6	2535.00/3,000		
MIC2008YML TR	576-2591-1-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	6-MLF	1.88	1.50	1.13
MIC2008YML TR	576-2591-2-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	6-MLF	4690.00/5,000		
MIC2008YM6 TR	576-1461-1-ND	Adj. Current Limit Power Distribution Switch	SOT-23-6	1.65	1.32	.99
MIC2008YM6 TR	576-1461-2-ND	Adj. Current Limit Power Distribution Switch	SOT-23-6	2535.00/3,000		
MIC2015-1.2YM6 TR	576-2592-1-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1.68	1.34	1.01
MIC2015-1.2YM6 TR	576-2592-2-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	2574.00/3,000		
MIC2016-0.5YML TR	576-2593-1-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	6-MLF	2.15	1.72	1.29
MIC2016-0.5YML TR	576-2593-2-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	6-MLF	5375.00/5,000		
MIC2016-1.2YM6 TR	576-2594-1-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1.90	1.52	1.14
MIC2016-1.2YM6 TR	576-2594-2-ND	Fixed Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	2919.00/3,000		
MIC2017YM6 TR	576-1462-1-ND	Adj. Current Limit Power Distribution Switch	SOT-23-6	1.93	1.54	1.16
MIC2017YM6 TR	576-1462-2-ND	Adj. Current Limit Power Distribution Switch	SOT-23-6	2958.00/3,000		
MIC2018YM6 TR	576-1463-1-ND	Adj. Current Limit Power Distribution Switch	SOT-23-6	1.93	1.54	1.16
MIC2018YM6TR	576-1463-2-ND	Adj. Current Limit Power Distribution Switch	SOT-23-6	2958.00/3,000		
MIC2019YM6 TR	576-2595-1-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1.78	1.42	1.07
MIC2019YM6 TR	576-2595-2-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	2727.00/3,000		
MIC2019YML TR	576-2596-1-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	6-MLF	2.03	1.62	1.22
MIC2019YML TR	576-2596-2-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	6-MLF	5065.00/5,000		
MIC2025-1YM	576-1057-ND	Single-Channel Power Distribution Switch MM8®	8-SOIC	1.08	.86	.65
MIC2025-2YM	576-1058-ND	Single-Channel Power Distribution Switch MM8®	8-SOIC	1.08	.86	.65
MIC2026-1YM TR	576-1059-1-ND	Dual-Ch. Power Distribution Switch	8-SOIC	.95	.76	.57
MIC2026-1YM TR	576-1059-2-ND	Dual-Ch. Power Distribution Switch	8-SOIC	1215.00/2,500		
MIC2026-2YM TR	576-1060-1-ND	Dual-Ch. Power Distribution Switch	8-SOIC	.95	.76	.57
MIC2026-2YM TR	576-1060-2-ND	Dual-Ch. Power Distribution Switch	8-SOIC	1215.00/2,500		
MIC2076-2YM	576-1061-ND	Dual-Ch. Power Distribution Switch	8-SOIC	1.33	1.06	.80
MIC2505-1YM	576-1081-ND	Single 2A High-Side Switch	8-SOIC	2.70	2.16	1.68
MIC2505-2YM	576-1082-ND	Single 2A High-Side Switch	8-SOIC	2.70	2.16	1.68
MIC2505YM	576-1083-ND	Single 2A High-Side Switch	8-SOIC	2.70	2.16	1.68
MIC2506YM	576-1084-ND	Single 1A High-Side Switch	8-SOIC	3.11	2.49	1.94
MIC2545A-1YM	576-1086-ND	Programmable Current Limit High-Side Switch	8-SOP	2.75	2.20	1.71

EVALUATION BOARDS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
KSZ8001L-EVAL	576-1620-ND	Board Eval for KSZ8001L	—	298.50	—	—
KSZ8041NL-EVAL	576-1621-ND	Board Eval for KSZ8041NL	—	142.50	—	—
KSZ8695P-MDP-EVAL	576-1622-ND	Board Eval for KSZ8695P-MDP	—	4950.00	—	—
KSZ8695P-MMB-EVAL	576-1623-ND	Board Eval for KSZ8695P-MMB	—	3300.00	—	—
KSZ8695X-EVAL	576-1624-ND	Board Eval for KSZ8695X	—	525.00	—	—
KSZ8721B-EVAL	576-1625-ND	Board Eval for KSZ8721B	—	142.50	—	—
KSZ8721BL-EVAL	576-1626-ND	Board Eval for KSZ8721BL	—	148.50	—	—
KSZ8721BMC-EVAL	576-1627-ND	Board Eval for KSZ8721BMC	—	298.50	—	—
KSZ8721BT-EVAL	576-1628-ND	Board Eval for KSZ8721BT	—	148.50	—	—
KSZ8721CL-EVAL	576-1629-ND	Board Eval for KSZ8721CL	—	148.50	—	—
KSZ8721SL-EVAL	576-1630-ND	Board Eval for KSZ8721SL	—	148.50	—	—
KSZ8841-16MQL-EVAL	576-1631-ND	Board Eval for KSZ8841-16MQL	—	363.00	—	—
KSZ8841-16MVL-EVAL	576-1632-ND	Board Eval for KSZ8841-16MVL	—	363.00	—	—
KSZ8841-PMQL-EVAL	576-1633-ND	Board Eval for KSZ8841-PMQL	—	330.00	—	—
KSZ8842-16MQL-EVAL	576-1634-ND	Board Eval for KSZ8842-16MQL	—	363.00	—	—
KSZ8842-16MVL-EVAL	576-1635-ND	Board Eval for KSZ8842-16MVL	—	363.00	—	—
KSZ8842-PMQL-EVAL	576-1636-ND	Board Eval for KSZ8842-PMQL	—	346.50	—	—
KSZ8862-100FX-EVAL	576-1637-ND	Board Eval for KSZ8862-100FX	—	495.00	—	—
KSZ8862-10FL-EVAL	576-1638-ND	Board Eval for KSZ8862-10FL	—	495.00	—	—
KSZ8893MQL-EVAL	576-1603-ND	Board Eval Experiment KSZ8893MQL	—	525.00	—	—
KSZ8993-EVAL	576-1639-ND	Board Eval for KSZ8993	—	205.50	—	—
KSZ8993F-EVAL	576-1640-ND	Board Eval for KSZ8993F	—	525.00	—	—
KSZ8993FL-EVAL	576-1641-ND	Board Eval for KSZ8993FL	—	525.00	—	—
KSZ8995MA-EVAL	576-1607-ND	Board Eval Experiment KSZ8995MA	—	397.50	—	—
KSZ8995XA-EVAL	576-1642-ND	Board Eval for KSZ8995XA	—	397.50	—	—

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MICREL® EVALUATION BOARDS *(Continued)*

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
KSZ8995X-EVAL	576-1643-ND	Board Eval for KSZ8995X	—	282.00	—	—
KSZ8999-EVAL	576-1644-ND	Board Eval for KSZ8999	—	397.50	—	—
MIC38300HYHL EV	576-2961-ND	Evaluation Board for MIC38300HYHL ***NEW!***	—	30.00	—	—
SY87729LHI-EVAL	576-1404-ND	Board Eval N SY87729 Experiment	—	232.50	—	—
SY87739LHI-EVAL	576-1406-ND	Board Eval N SY87739 Experiment	—	232.50	—	—

ON Semiconductor™ ANALOG SWITCHES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
M74VHC1GT66DTT1GOSCT-ND	Single Supply Analog Switch*	SOT-23-5	.39	.29	.21
M74VHC1GT66DTT1GOSTR-ND	Single Supply Analog Switch*	SOT-23-5	246.00/3,000		
MC74LVX4053DGOS-ND	Analog Mux/Demux*	16-SOIC	.80	.65	.49
MC74VHC1G66DTT1GOSCT-ND	Single Supply Analog Switch*	SOT-23-5	.44	.30	.21
MC74VHC1G66DTT1GOSTR-ND	Single Supply Analog Switch*	SOT-23-5	240.00/3,000		
NLAS4051DTR2GOSCT-ND	Analog Mux/Demux*	16-TSSOP	.91	.73	.55
NLAS4501DTT1GOSCT-ND	Single SPST Analog Switch*	SOT-23-5	.50	.40	.30
NLAS4501DTT1GOSTR-ND	Single SPST Analog Switch*	SOT-23-5	450.00/3,000		
NLAS4599DFT2GOSCT-ND	Low Volt. Single Supply SPDT Analog Switch*	SOT-363	.50	.40	.30
NLAS4599DFT2GOSTR-ND	Low Volt. Single Supply SPDT Analog Switch*	SOT-363	450.00/3,000		
NLAS4684MNR2GOSCT-ND	Ultra-Low Resistance Dual SPDT Analog Switch*	10-QFN	1.00	.87	.67
NLAS4684MNR2GOSTR-ND	Ultra-Low Resistance Dual SPDT Analog Switch*	10-QFN	1059.00/3,000		
NLAS4684MR2OSCT-ND	Ultra-Low Resistance Dual SPDT Analog Switch*	Micro-10	2.10	1.75	1.47
NLAS4684MR2OSTR-ND	Ultra-Low Resistance Dual SPDT Analog Switch*	Micro-10	3640.00/4,000		
NLAS44599DTR2GOSCT-ND	Dual DPDT Analog Switch*	16-TSSOP	1.25	1.00	.75
NLAS44599DTR2GOSTR-ND	Dual DPDT Analog Switch*	16-TSSOP	1600.00/2,500		
NLASB3157DFT2OSCT-ND	2:1 Multiplexer	SOT-363	.54	.42	.30
NLASB3157DFT2GOSCT-ND	2:1 Multiplexer*	SOT-363	.46	.36	.26
NLASB3157DFT2GOSTR-ND	2:1 Multiplexer*	SOT-363	363.00/3,000		
NLAST4051DTR2OSCT-ND	Analog Mux/Demux	16-TSSOP	.81	.68	.54
NLAST4599DFT2GOSCT-ND	Low Volt. Single Supply SPDT Analog Switch*	SOT-363	.58	.45	.33
NLAST4599DFT2GOSTR-ND	Low Volt. Single Supply SPDT Analog Switch*	SOT-363	456.00/3,000		

ON Semiconductor™ DC-DC POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CS5124XDR8GOSCT-ND	HP, IC Mode PWM Controller*	8-SOIC	3.16	2.75	2.05
CS5124XDR8GOSTR-ND	HP, IC Mode PWM Controller*	8-SOIC	3745.00/2,500		
CS5171EDR8GOSCT-ND	1.5A, 280kHz Positive Boost Regulator*	8-SOIC	2.16	1.80	1.52
CS5171EDR8GOSTR-ND	1.5A, 280kHz Positive Boost Regulator*	8-SOIC	2340.00/2,500		
CS5171GDR8GOSCT-ND	1.5A, 280kHz Positive Boost Regulator*	8-SOIC	2.10	1.75	1.47
CS5171GDR8GOSTR-ND	1.5A, 280kHz Positive Boost Regulator*	8-SOIC	2275.00/2,500		
CS5172EDR8GOSCT-ND	1.5A, 280kHz Negative Boost Regulator*	8-SOIC	2.16	1.80	1.52
CS5172EDR8GOSTR-ND	1.5A, 280kHz Negative Boost Regulator*	8-SOIC	2340.00/2,500		
CS5172GDR8GOSCT-ND	1.5A, 280kHz Negative Boost Regulator*	8-SOIC	2.10	1.75	1.47
CS5172GDR8GOSTR-ND	1.5A, 280kHz Negative Boost Regulator*	8-SOIC	2275.00/2,500		
CS5173EDR8GOSCT-ND	1.5A, 560kHz Positive Boost Regulator*	8-SOIC	2.16	1.80	1.52
CS5173EDR8GOSTR-ND	1.5A, 560kHz Positive Boost Regulator*	8-SOIC	2340.00/2,500		
CS5173GDR8GOSCT-ND	1.5A, 560kHz Positive Boost Regulator*	8-SOIC	2.10	1.75	1.47
CS5173GDR8GOSTR-ND	1.5A, 560kHz Positive Boost Regulator*	8-SOIC	2275.00/2,500		
CS5174EDR8GOSCT-ND	1.5A, 560kHz Negative Boost Regulator*	8-SOIC	2.16	1.80	1.52
CS5174EDR8GOSTR-ND	1.5A, 560kHz Negative Boost Regulator*	8-SOIC	2340.00/2,500		
CS5174GDR8GOSCT-ND	1.5A, 560kHz Negative Boost Regulator*	8-SOIC	2.10	1.75	1.47
CS5174GDR8GOSTR-ND	1.5A, 560kHz Negative Boost Regulator*	8-SOIC	2275.00/2,500		
CS51414EDR8GOSCT-ND	1.5A, 520kHz Low Voltage Buck Regulator*	8-SOIC	2.82	2.35	1.98
CS51414EDR8GOSTR-ND	1.5A, 520kHz Low Voltage Buck Regulator*	8-SOIC	3055.00/2,500		
LM2574N-5GOS-ND	0.5A, 5V, Step-Down Switching Regulator*	8-Dip	1.55	1.30	1.09
LM2575T-5GOS-ND	1.0A, 5V, Step-Down Switching Regulator*	TO-220-5	2.25	1.88	1.58
LM2575T-ADJGOS-ND	1.0A, Adj. Output Voltage, Step-Down Switching Regulator*	TO-220-5	2.34	1.95	1.64
LM2576T-ADJGOS-ND	3.0A, Adj. Output Voltage, Step-Down Switching Regulator*	TO-220-5	2.20	1.84	1.55
MC33063ADR2GOSCT-ND	1.5A, DC-DC Inverting Switching Reg.*	8-SOIC	1.00	.81	.61
MC33063ADR2GOSTR-ND	1.5A, DC-DC Inverting Switching Regulator*	8-SOIC	795.00/2,500		
MC33063AP1GOS-ND	1.5A, DC-DC Inverting Switching Regulator*	8-Dip	1.08	.87	.65
MC34063ADGOS-ND	1.5A, Step-Up/Down/Inverting Switching Reg.*	8-SOIC	.86	.69	.52
MC34063ADR2GOSCT-ND	1.5A, Step-Up/Down/Inverting Switching Reg.*	8-SOIC	.78	.63	.47
MC34063ADR2GOSTR-ND	1.5A, Step-Up/Down/Inverting Switching Reg.*	8-SOIC	615.00/2,500		
MC34063AP1GOS-ND	1.5A, Step-Up/Down/Inverting Switching Reg.*	8-Dip	.90	.72	.54
MC34163POS-ND	3.4A Step-Up/Down/Inverting Switching Reg.	16-Dip	2.70	2.16	1.68
NCP3063BDR2GOSCT-ND	1.5A DC/DC Switching Regulator*	8-SOIC	1.20	1.04	.80
NCP3063BDR2GOSTR-ND	1.5A DC/DC Switching Regulator*	8-SOIC	1065.00/2,500		
NCP3063DR2GOSCT-ND	1.5A DC/DC Switching Regulator*	8-SOIC	1.01	.88	.68
NCP3063DR2GOSTR-ND	1.5A DC/DC Switching Regulator*	8-SOIC	897.50/2,500		
NCP3063PGOS-ND	1.5A DC/DC Switching Regulator*	8-Dip	1.20	1.04	.80
NCP3065DR2GOSCT-ND	1.5A Constant Current Switching Regulator*	8-SOIC	1.35	1.13	.95
NCP3065DR2GOSTR-ND	1.5A Constant Current Switching Regulator*	8-SOIC	1462.50/2,500		
NCP3065MNTXGOSCT-ND	1.5A Constant Current Switching Regulator*	8-DFN	1.41	1.18	.99
NCP3065MNTXGOSTR-ND	1.5A Constant Current Switching Regulator*	8-DFN	2444.00/4,000		
NCP3065PGOS-ND	1.5A Constant Current Switching Regulator*	8-Dip	1.35	1.13	.95
NCP3102BMNTXGOSCT-ND	Wide Input Voltage Sync. Buck Converter*	40-QFN	5.40	4.70	3.50
NCP3102BMNTXGOSTR-ND	Wide Input Voltage Sync. Buck Converter*	40-QFN	6400.00/2,500		
NCP3102MNTXGOSCT-ND	Wide Input Voltage Sync. Buck Converter*	40-QFN	5.13	4.47	3.33
NCP3102MNTXGOSTR-ND	Wide Input Voltage Sync. Buck Converter*	40-QFN	6080.00/2,500		
NCP3163BPWGOS-ND	3.4A DC/DC Switching Regulator*	16-SOIC	3.32	2.90	2.16
NCV3065DR2GOSCT-ND	1.5A Constant Current Switching Regulator*	8-SOIC	1.80	1.56	1.20
NCV3065DR2GOSTR-ND	1.5A Constant Current Switching Regulator*	8-SOIC	1595.00/2,500		
NCV3065MNTXGOSCT-ND	1.5A Constant Current Switching Regulator*	8-DFN	1.50	1.25	1.05
NCV3065MNTXGOSTR-ND	1.5A Constant Current Switching Regulator*	8-DFN	2600.00/4,000		
NCV3065PGOS-ND	1.5A Constant Current Switching Regulator*	8-Dip	1.44	1.20	1.01
SG3525ANGOS-ND	PWM Control Circuit*	16-Dip	1.69	1.47	1.13

ON Semiconductor™ DISCRETE ARRAYS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MDC3105LT1GOSCT-ND	Integrated Relay, Inductive Load Driver	SOT-23	.60	.48	.36
MDC3105LT1GOSTR-ND	Integrated Relay, Inductive Load Driver	SOT-23	540.00/3,000		
NUD3105DMT1GOSCT-ND	Integrated Relay, Inductive Load Driver	SC-74	.70	.56	.42
NUD3105DMT1GOSTR-ND	Integrated Relay, Inductive Load Driver	SC-74	630.00/3,000		
NUD3105LT1GOSCT-ND	Integrated Relay, Inductive Load Driver	SOT-23	.60	.48	.36
NUD3105LT1GOSTR-ND	Integrated Relay, Inductive Load Driver	SOT-23	540.00/3,000		
NUD3112DMT1GOSCT-ND	Integrated Relay, Inductive Load Driver	SC-74	.70	.56	.42
NUD3112DMT1GOSTR-ND	Integrated Relay, Inductive Load Driver	SC-74	630.00/3,000		
NUD3112LT1GOSCT-ND	Integrated Relay, Inductive Load Driver	SOT-23	.60	.48	.36
NUD3112LT1GOSTR-ND	Integrated Relay, Inductive Load Driver	SOT-23	540.00/3,000		
NUD3124DMT1GOSCT-ND	Automotive Inductive Load Driver	SC-74	.70	.56	.42
NUD3124DMT1GOSTR-ND	Automotive Inductive Load Driver	SC-74	630.00/3,000		
NUD3124LT1GOSCT-ND	Automotive Inductive Load Driver	SOT-23	.60	.48	.36
NUD3124LT1GOSTR-ND	Automotive Inductive Load Driver	SOT-23	540.00/3,000		
NUD4001DR2GOSCT-ND	High Current LED Driver	8-SOIC	1.13	.98	.75
NUD4001DR2GOSTR-ND	High Current LED Driver	8-SOIC	997.50/2,500		

ON Semiconductor™ HARDWARE MONITORS/ THERMAL MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADM1034ARQ-ND	Thermal Monitor/Fan Speed Controller	16-QSOP	7.52	6.02	5.08
ADM1034ARQZ-ND	Thermal Monitor/Fan Speed Controller*	16-QSOP	7.94	6.36	5.36
ADM1021AARQZ-ND	Digital Thermometer 2-Channel*	16-QSOP	9.09	8.30	6.56
ADM1023ARQZ-ND	2-Ch. Digital Thermometer/Under and Overtemperature Alarm*	16-QSOP	10.00	9.25	7.00
ADM1024ARUZ-ND	Monitor System Temperature/Voltage*	24-TSSOP	8.63	7.88	6.23
ADM1027ARQZ-ND	Thermal Controller Voltage/Monitor*	24-QSOP	10.35	9.45	7.47
ADM1031ARQZ-ND	Sensor 2-Temp/Fan Control*	16-QSOP	10.12	9.24	7.31
ADM1032ARZ-ND	Temp. Monitor Default Set at 85°C*	8-SOIC	5.08	4.07	3.43
ADM1032ARMZ-ND	Temp. Monitor Default Set at 85°C*	8-MSOP	5.37	4.68	3.49
ADM1033ARQZ-ND	Thermal Monitor/Fan Speed Controller*	16-QSOP	8.79	8.03	6.35
ADT7460ARQZ-ND	Remote Thermal/Fan Controller*	16-QSOP	6.79	6.20	4.90
ADT7466ARQZ-ND	*dB*Cool™ Remote Thermal Controller and Voltage Monitor*	16-QSOP	6.33	5.78	4.57
ADT7467ARQZ-ND	*dB*Cool™ Remote Thermal Monitor and Fan Controller*	16-QSOP	6.79	6.20	4.90
EVAL-ADT7467EB-ND	Evaluation Board for ADT7467	—	187.50	—	—
ADT7468ARQZ-ND	*dB*Cool™ Remote Thermal Controller and Voltage Monitor*	24-QSOP	8.05	7.35	5.81
ADT7475ARQZ-ND	*dB*Cool™ Remote Thermal Monitor and Fan Controller*	24-QSOP	5.75	5.25	4.15
ADT7476AARQZ-ND	*dB*Cool™ Remote Thermal Controller and Voltage Monitor*	24-QSOP	5.75	5.25	4.15

ON Semiconductor™ HIGH FREQUENCY

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC10EL16DR2GOSCT-ND	5V ECL Differential Receiver*	8-SOIC	5.75	5.25	4.15
MC10EL16DR2GOSTR-ND	5V ECL Differential Receiver*	8-SOIC	7875.00/2,500		
MC10ELT22DOS-ND	5V Dual TTL to Differential PECL Translator	8-SOIC	4.28	3.42	2.66
MC10ELT25DGOS-ND	5V Differential ECL to TTL Translator*	8-SOIC	5.27	4.59	3.42
MC10EP57DTGOS-ND	3.3V/5V ECL 4:1 Differential Mux*	20-TSSOP	11.90	11.01	8.33
MC10EP105FAR2OSCT-ND	3.3V/5V ECL Quad 2-Input Diff. AND/NAND Gate.	32-LQFP	16.03	14.43	12.80
MC100E142FNOS-ND	5V ECL 9-Bit Shift Register	28-PLCC	9.16	8.25	7.32
MC100EL16DGOS-ND	5V ECL Differential Receiver*	8-SOIC	5.75	5.25	4.15
MC100ELT23DGOS-ND	5V Dual Diff. PECL to TTL Translator*	8-SOIC	5.27	4.59	3.42
MC100ELT24DGOS-ND	5V TTL to Differential ECL Translator*	8-SOIC	5.27	4.59	3.42
MC100EP08DTGOS-ND	3.3V/5V ECL 2-In. Diff. XOR/XNOR Gate*	8-TSSOP	9.09	8.30	6.56
MC100EP11DGOS-ND	3.3V/5V ECL 1:2 Diff. Fanout Buffer*	8-SOIC	10.00	9.25	7.00
MC100EP14DTGOS-ND	3.3V/5V, 1:5 Diff. ECL/PECL/HSTL Clock Driver*	20-TSSOP	11.39	10.40	8.22
MC100EP57DTGOS-ND	3.3V/5V ECL 4:1 Differential Mux*	20-TSSOP	10.70	9.90	7.49
MC100EP195BMNGOS-ND	3.3V ECL Programmable Delay Chip*	32-QFN	16.00	14.80	11.20
MC100EP196BMNGOS-ND	3.3V ECL Programmable Delay Chip w/FTUNE*	32-QFN	16.00	14.80	11.20
MC100EP445MNGOS-ND	3.3V/5V ECL 8-Bit Serial/Parallel Converter*	32-QFN	22.14	18.98	16.83
MC100EPT20DGOS-ND	3.3V TTL/CMOS to Diff. PECL Translator*	8-SOIC	8.51	7.77	6.15
MC100EPT21DGOS-ND	3.3V Diff. LVPECL to LVTTL Translator*	8-SOIC	8.51	7.77	6.15
MC100EPT21DTGOS-ND	3.3V Diff. LVPECL to LVTTL Translator*	8-TSSOP	8.51	7.77	6.15
MC100EPT22DGOS-ND	3.3V Dual LVTTL/LVCMOS to Diff. LVPECL Translator*	8-SOIC	8.51	7.77	6.15
MC100EPT23DGOS-ND	3.3V Dual Diff. LVPECL to LVTTL Translator*	8-SOIC	8.51	7.77	6.15
MC100LVE222FAOS-ND	3.3V ECL 1:15 Differential Half Clock Driver	52-LQFP	10.00	9.00	7.98
MC100LVEL14DWOSCT-ND	3.3V ECL 1:5 Clock Distribution Chip	20-SOIC	9.00	7.20	6.08
MC100LVEL16DGOS-ND	3.3V ECL Differential Receiver*	8-SOIC	5.75	5.25	4.15
MC100LVELT22DGOS-ND	3.3V Dual LVTTL/LVCMOS to Differential LVPECL Translator*	8-SOIC	5.13	4.47	3.33
MC100LVEP11DTGOS-ND	2.5V/3.3V ECL 1:2 Diff. Fanout Buffer*	8-TSSOP	10.00	9.25	7.00
MC100LVEP14DTGOS-ND	2.5V/3.3V 1:5 Differential ECL/Clock Driver*	20-TSSOP	11.39	10.40	8.22
MC100LVEP111FAGOS-ND	2.5V/3.3V 1:10 Differential Clock Driver*	32-LQFP	12.00	11.10	8.40
MC12080DGOS-ND	1.1GHz Prescaler*	8-SOIC	5.13	4.47	3.33
NB3N5573DTGOS-ND	3.3V Crystal to HCSL Clock Generator*	16-TSSOP	4.86	4.23	3.15
NBC12429FAR2OSCT-ND	3.3V/5V Prog. PLL Sync. Clock Generator	32-LQFP	10.30	9.53	7.21
NBC12429FAR2OSTR-ND	3.3V/5V Prog. PLL Sync. Clock Generator	32-LQFP	12876.00/2,000		
NBC12429FNR2OSCT-ND	3.3V/5V Prog. PLL Sync. Clock Generator	28-PLCC	10.30	9.53	7.21
NBC12429FNR2OSTR-ND	3.3V/5V Prog. PLL Sync. Clock Generator	28-PLCC	3270.50/500		
NBSG16VSBAR2OSCT-ND	2.5V/3.3V SiGe Diff. Receiver/Driver with Variable Output Swing	16-FCBGA	37.46	34.96	—
NBSG16VSBAR2OSTR-ND	2.5V/3.3V SiGe Diff. Receiver/Driver with Variable Output Swing	16-FCBGA	3321.00/100		

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM317BD2TR4GOSCT-ND	1.5A, Adj. Out, Positive Voltage Regulator*	D2-PAK	1.11	.97	.75
LM317BD2TR4GOSTR-ND	1.5A, Adj. Out, Positive Voltage Regulator*	D2-PAK	393.60/800		
LM317BTGOS-ND	1.5A, Adj. Out, Positive Voltage Regulator*	TO-220	.74	.59	.45
LM317D2TR4GOSCT-ND	1.5A, Adj. Out, Positive Voltage Regulator*	D2-PAK	1.01	.82	.61
LM317D2TR4GOSTR-ND	1.5A, Adj. Out, Positive Voltage Regulator*	D2-PAK	333.60/800		
LM317LBDGOS-ND	100mA, Adj. Out, Positive Voltage Regulator*	8-SOIC	.65	.53	.40
LM317LBZGOS-ND	100mA, Adj. Out, Positive Voltage Regulator*	TO-92	.65	.53	.40
LM317LDGOS-ND	100mA, Adj. Out, Positive Voltage Regulator*	8-SOIC	.54	.42	.30
LM317LDR2GOSCT-ND	100mA, Adj. Out, Positive Voltage Regulator*	8-SOIC	.54	.42	.30
LM317LDR2GOSTR-ND	100mA, Adj. Out, Positive Voltage Regulator*	8-SOIC	352.50/2,500		
LM317LZGOS-ND	100mA, Adj. Out, Positive Voltage Regulator*	TO-92	.41	.32	.23
LM317MBDTGOS-ND	500mA, Adj. Out, Positive Voltage Regulator*	DPAK	1.09	.88	.66
LM317MDTRKGOSCT-ND	500mA, Adj. Out, Positive Voltage Regulator*	DPAK	.69	.56	.42
LM317MDTRKGOSTR-ND	500mA, Adj. Out, Positive Voltage Regulator*	DPAK	550.00/2,500		
LM317MTGOS-ND	500mA, Adj. Out, Positive Voltage Regulator*	TO-220	.75	.60	.45
LM317TGOS-ND	1.5A, Adj. Output, Positive Voltage Regulator*	TO-220	.68	.55	.41
LM337BD2TR4GOSCT-ND	1.5A, Adj. Output, Neg. Voltage Regulator*	D2PAK	1.56	1.35	1.04
LM337BD2TR4GOSTR-ND	1.5A, Adj. Output, Neg. Voltage Regulator*	D2PAK	551.20/800		
LM337BTGOS-ND	1.5A, Adj. Output, Neg. Voltage Regulator*	TO-220	1.02	.89	.69
LM337TGOS-ND	1.5A, Adj. Output, Neg. Voltage Regulator*	TO-220	.95	.76	.57
LM350TGOS-ND	3.0A, Adj. Out, Positive Voltage Regulator*	TO-220	1.78	1.55	1.19
LM2931AD-5.0R2GOSCT-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	8-SOIC	.77	.62	.47
LM2931AD-5.0R2GOSTR-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	8-SOIC	612.50/2,500		
LM2931AT-5.0GOS-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	TO-220	1.43	1.25	.96
LM2931AZ-5.0RAGOSCT-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	TO-92	.72	.58	.44
LM2931AZ-5.0RAGOSTR-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	TO-92	496.00/2,000		
LM2931CDR2GOSCT-ND	0.1A, Adj. Output, LDO Voltage Reg. with 60V Load Dump Protection*	8-SOIC	.72	.58	.44
LM2931CDR2GOSTR-ND	0.1A, Adj. Output, LDO Voltage Reg. with 60V Load Dump Protection*	8-SOIC	570.00/2,500		
LM2931CTGOS-ND	0.1A, Adj. Output, LDO Voltage Reg. with 60V Load Dump Protection*	TO-220-5	1.09	.95	.73
LM2931D-5.0R2GOSCT-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	8-SOIC	.69	.56	.42
LM2931D-5.0R2GOSTR-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	8-SOIC	550.00/2,500		
LM2931T-5.0GOS-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	TO-220	1.18	1.03	.79
LM2931Z-5.0GOS-ND	100mA, 5V, LDO Voltage Regulator with 60V Load Dump Protection*	TO-92	.76	.61	.46
LP2950ACDT-5.0OS-ND	100mA, 5V, Low Power LDO Voltage Regulator	DPAK	1.59	1.33	1.12
LP2950ACDT-5.0GOS-ND	100mA, 5V, LP LDO Voltage Regulator*	DPAK	1.01	.81	.61
LP2950ACZ-5.0GOS-ND	100mA, 5V, LP LDO Voltage Regulator*	TO-92	.99	.80	.60
LP2950CDT-5.0GOS-ND	100mA, 5V, LP LDO Voltage Regulator*	DPAK	.97	.78	.59
LP2950CZ-5.0GOS-ND	100mA, 5V, LP LDO Voltate Regulator*	TO-92	.93	.75	.57
LP2951ACDR2GOSCT-ND	100mA, Adj., LP LDO Voltage Regulator*	8-SOIC	.80	.64	.48
LP2951ACDR2GOSTR-ND	100mA, Adj., LP LDO Voltage Regulator*	8-SOIC	630.00/2,500		
MC78L05ABDR2GOSCT-ND	100mA, 5V, Positive Voltage Regulator*	8-SOIC	.52	.41	.30
MC78L05ABDR2GOSTR-ND	100mA, 5V, Positive Voltage Regulator*	8-SOIC	342.50/2,500		
MC78L05ABDGOS-ND	100mA, 5V, Positive Voltage Regulator*	8-SOIC	.58	.45	.33
MC78L05ABPGOS-ND	100mA, 5V, Positive Voltage Regulator*	TO-92	.58	.45	.33
MC78L05ABPRAGOSCT-ND	100mA, 5V, Positive Voltage Regulator*	TO-92	.58	.45	.33
MC78L05ABPRAGOSTR-ND	100mA, 5V, Positive Voltage Regulator*	TO-92	320.00/2,000		
MC78L05ACDGOS-ND	100mA, 5V, Positive Voltage Regulator*	8-SOIC	.41	.32	.23
MC78L05ACDR2GOSCT-ND	100mA, 5V, Positive Voltage Regulator*	8-SOIC	.41	.32	.23
MC78L05ACDR2GOSTR-ND	100mA, 5V, Positive Voltage Regulator*	8-SOIC	267.50/2,500		
MC78L05ACPGOS-ND	100mA, 5V, Positive Voltage Regulator*	TO-92	.44	.33	.23
MC78L05ACPRAGOSCT-ND	100mA, 5V, Positive Voltage Regulator*	TO-92	.44	.33	.23
MC78L05ACPRAGOSTR-ND	100mA, 5V, Positive Voltage Regulator*	TO-92	208.00/2,000		
MC78L08ACPGOS-ND	100mA, 8V, Positive Voltage Regulator*	TO-92	.40	.31	.23
MC78L12ABDR2GOSCT-ND	100mA, 12V, Positive Voltage Regulator*	8-SOIC	.58	.45	.33
MC78L12ABDR2GOSTR-ND	100mA, 12V, Positive Voltage Regulator*	8-SOIC	377.50/2,500		
MC78L12ABPGOS-ND	100mA, 12V, Positive Voltage Regulator*	TO-92	.58	.45	.33
MC78L12ACDR2GOSCT-ND	100mA, 12V, Positive Voltage Regulator*	8-SOIC	.45	.35	.25
MC78L12ACDR2GOSTR-ND	100mA, 12V, Positive Voltage Regulator*	8-SOIC	292.50/2,500		
MC78L12ACPGOS-ND	100mA, 12V, Positive Voltage Regulator*	TO-92	.40	.31	.23
MC78L15ACPGOS-ND	100mA, 15V, Positive Voltage Regulator*	TO-92	.40	.31	.23
MC78LC33HT1GOSCT-ND	80mA, 3.3V, Micropower Voltage Regulator*	SOT-89	.85	.69	.52
MC78LC33HT1GOSTR-ND	80mA, 3.3V, Micropower Voltage Regulator*	SOT-89	294.00/1,000		
MC78LC33NTRGOSCT-ND	80mA, 3.3V, Micropower Voltage Regulator*	SOT-23-5	.96	.77	.58
MC78LC33NTRGOSTR-ND	80mA, 3.3V, Micropower Voltage Regulator*	SOT-23-5	912.00/3,000		
MC78LC50HT1GOSCT-ND	80mA, 5V, Micropower Voltage Regulator*	SOT-89	.85	.69	.52
MC78LC50HT1GOSTR-ND	80mA, 5V, Micropower Voltage Regulator*	SOT-89	294.00/1,000		
MC78LC50NTROSCT-ND	80mA, 5V, Micropower Voltage Regulator	SOT-23-5	1.03	.90	.69
MC78LC50NTRGOSCT-ND	80mA, 5V, Micropower Voltage Regulator*	SOT-23-5	.96	.77	.58
MC78LC50NTRGOSTR-ND	80mA, 5V, Micropower Voltage Regulator*	SOT-23-5	912.00/3,000		
MC78M05ACDTRKGOSCT-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	.77	.62	.46
MC78M05ACDTRKGOSTR-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	605.00/2,500		
MC78M05BDTRKGOSCT-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	.57	.46	.35
MC78M05BDTRKGOSTR-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	427.50/2,500		
MC78M05CDTGOS-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	.54	.43	.33
MC78M05CDTRKGOSCT-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	.54	.43	.33
MC78M05CDTRKGOSTR-ND	500mA, 5V, Positive Voltage Regulator*	DPAK	402.50/2,500		
MC78M05CTGOS-ND	500mA, 5V, Positive Voltage Regulator*	TO-220	.55	.45	.34
MC78M12CDTRKGOSCT-ND	500mA, 12V, Positive Voltage Regulator*	DPAK	.57	.46	.34
MC78M12CDTRKGOSTR-ND	500mA, 12V, Positive Voltage Regulator*	DPAK	425.00/2,500		
MC78M12CTGOS-ND	500mA, 12V, Positive Voltage Regulator*	TO-220	.56	.45	.34
MC78M15BTOS-ND	500mA, 15V, Positive Voltage Regulator	TO-220	.80	.65	.49
MC78M15CDTRKGOSCT-ND	500mA, 15V, Positive Voltage Regulator*	DPAK	.69	.56	.42
MC78M15CDTRKGOSTR-ND	500mA, 15V, Positive Voltage Regulator*	DPAK	517.50/2,500		
MC78M15CTGOS-ND	500mA, 15V, Positive Voltage Regulator*	TO-220	.64	.52	.39
MC78PC33NTRGOSCT-ND	150mA, 3.3V, LDO Linear Voltage Regulator*	SOT-23-5	.68	.54	.41
MC78PC33NTRGOSTR-ND	150mA, 3.3V, LDO Linear Voltage Regulator*	SOT-23-5	642.00/3,000		
MC79L05ABPGOS-ND	100mA, 5V, Negative Voltage Regulator*	TO-92	.49	.40	.30
MC79L05ACDGOS-ND	100mA, 5V, Negative Voltage Regulator*	8-SOIC	.45	.35	.25
MC79L05ACDR2OSCT-ND	100mA, 5V, Negative Voltage Regulator*	8-SOIC	.52	.40	.29
MC79L05ACDR2GOSCT-ND	100mA, 5V, Negative Voltage Regulator*	8-SOIC	.45	.35	.25
MC79L05ACDR2GOSTR-ND	100mA, 5V, Negative Voltage Regulator*	8-SOIC	292.50/2,500		

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MC79L05ACPGOS-ND	100mA, 5V, Negative Voltage Regulator*	TO-92	.40	.31	.23
MC79L12ACDR2OSCT-ND	100mA, 12V, Negative Voltage Regulator*	8-SOIC	.52	.40	.29
MC79L12ACPGOS-ND	100mA, 12V, Negative Voltage Regulator*	TO-92	.40	.31	.23
MC79L15ACPGOS-ND	100mA, 15V, Negative Voltage Regulator*	TO-92	.40	.31	.23
MC79M05BDTGOS-ND	500mA, 5V, Negative Voltage Regulator*	DPAK	.77	.62	.46
MC79M05CDTRKGOSCT-ND	500mA, 5V, Negative Voltage Regulator*	DPAK	.63	.50	.38
MC79M05CDTRKGOSTR-ND	500mA, 5V, Negative Voltage Regulator*	DPAK	470.00/2,500		
MC79M12CDTRKGOSCT-ND	500mA, 12V, Negative Voltage Regulator*	DPAK	.69	.56	.42
MC79M12CDTRKGOSTR-ND	500mA, 12V, Negative Voltage Regulator*	DPAK	517.50/2,500		
MC79M15CDTRKGOSCT-ND	500mA, 15V, Negative Voltage Regulator*	DPAK	.69	.56	.42
MC79M15CDTRKGOSTR-ND	500mA, 15V, Negative Voltage Regulator*	DPAK	517.50/2,500		
MC7805ACD2TR4GOSCT-ND	1A, 5V, Positive Voltage Regulator*	D2PAK	1.01	.82	.61
MC7805ACD2TR4GOSTR-ND	1A, 5V, Positive Voltage Regulator*	D2PAK	333.60/800		
MC7805ACTGOS-ND	1A, 5V, Positive Voltage Regulator*	TO-220	.63	.51	.38
MC7805BDTRKGOSCT-ND	1A, 5V, Positive Voltage Regulator*	DPAK	.74	.60	.45
MC7805BDTRKGOSTR-ND	1A, 5V, Positive Voltage Regulator*	DPAK	555.00/2,500		
MC7805BD2TR4GOSCT-ND	1A, 5V, Positive Voltage Regulator*	DPAK	1.07	.86	.65
MC7805BD2TR4GOSTR-ND	1A, 5V, Positive Voltage Regulator*	DPAK	351.20/800		
MC7805BTGOS-ND	1A, 5V, Positive Voltage Regulator*	TO-220	.60	.48	.36
MC7805CD2TGOS-ND	1A, 5V, Positive Voltage Regulator*	D2PAK	.83	.67	.50
MC7805CD2TR4GOSCT-ND	1A, 5V, Positive Voltage Regulator*	D2PAK	.83	.67	.50
MC7805CD2TR4GOSTR-ND	1A, 5V, Positive Voltage Regulator*	D2PAK	272.00/800		
MC7805CTGOS-ND	1A, 5V, Positive Voltage Regulator*	TO-220	.56	.45	.34
MC7806CTOS-ND	1A, 6V, Positive Voltage Regulator	TO-220	.69	.56	.42
MC7808CTGOS-ND	1A, 8V, Positive Voltage Regulator*	TO-220	.56	.45	.34
MC7809CTOS-ND	1A, 9V, Positive Voltage Regulator	TO-220	.69	.56	.42
MC7809CTGOS-ND	1A, 9V, Positive Voltage Regulator*	TO-220	.59	.48	.36
MC7812BTGOS-ND	1A, 12V, Positive Voltage Regulator*	TO-220	.60	.48	.36
MC7812CD2TR4GOSCT-ND	1A, 12V, Positive Voltage Regulator*	D2PAK	.91	.73	.55
MC7812CD2TR4GOSTR-ND	1A, 12V, Positive Voltage Regulator*	D2PAK	298.40/800		
MC7812CTGOS-ND	1A, 12V, Positive Voltage Regulator*	TO-220	.56	.45	.34
MC7815ACTOS-ND	1A, 15V, Positive Voltage Regulator	TO-220	.71	.57	.43
MC7815CD2TR4GOSCT-ND	1A, 15V, Positive Voltage Regulator*	D2PAK	.91	.73	.55
MC7815CD2TR4GOSTR-ND	1A, 15V, Positive Voltage Regulator*	D2PAK	298.40/800		
MC7815BTGOS-ND	1A, 15V, Positive Voltage Regulator*	TO-220	.68	.54	.41
MC7815CTGOS-ND	1A, 15V, Positive Voltage Regulator*	TO-220	.56	.45	.34
MC7818CTOS-ND	1A, 18V, Positive Voltage Regulator	TO-220	.69	.56	.42
MC7824CTGOS-ND	1A, 24V, Positive Voltage Regulator*	TO-220	.57	.46	.35
MC7905ACTGOS-ND	1A, 5V, Negative Voltage Regulator*	TO-220	.68	.54	.41
MC7905.2CTOS-ND	1A, 5V, Negative Voltage Regulator	TO-220	.56	.42	.32
MC7905CTGOS-ND	1A, 5V, Negative Voltage Regulator*	TO-220	.64	.52	.39
MC7908CTOS-ND	1A, 8V, Negative Voltage Regulator	TO-220	.45	.34	.26
MC7912CTOS-ND	1A, 12V, Negative Voltage Regulator	TO-220	.67	.54	.41
MC7912CTGOS-ND	1A, 12V, Negative Voltage Regulator*	TO-220	.64	.52	.39
MC7915CTGOS-ND	1A, 15V, Negative Voltage Regulator*	TO-220	.64	.52	.39
MC33269DTRK-3.3GOSCT-ND	3.3V, 800mA, Adj. Output, LDO Voltage Reg.*	D-PAK	1.04	.84	.63
MC33269DTRK-3.3GOSTR-ND	3.3V, 800mA, Adj. Output, LDO Voltage Reg.*	D-PAK	825.00/2,500		
NCP500SN33T1GOSCT-ND	3.3V, 150mA CMOS LDO Voltage Reg.*	5-TSOP	.59	.48	.36
NCP500SN33T1GOSTR-ND	3.3V, 150mA CMOS LDO Voltage Reg.*	5-TSOP	534.00/3,000		
NCP502SQ25T1OSCT-ND	2.5V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP502SQ25T1OSTR-ND	2.5V, 80mA CMOS Voltage Regulator	SC70-5	834.00/3,000		
NCP511SN15T1GOSCT-ND	1.5V, 150mA CMOS Low IQ, LDO Volt. Reg.*	5-TSOP	.62	.50	.38
NCP511SN15T1GOSTR-ND	1.5V, 150mA CMOS Low IQ, LDO Volt. Reg.*	5-TSOP	561.00/3,000		
NCP511SN25T1GOSCT-ND	2.5V, 150mA CMOS Low IQ, LDO Volt. Reg.*	5-TSOP	.62	.50	.38
NCP511SN25T1GOSTR-ND	2.5V, 150mA CMOS Low IQ, LDO Volt. Reg.*	5-TSOP	561.00/3,000		
NCP511SN33T1GOSCT-ND	3.3V, 150mA CMOS Low IQ, LDO Volt. Reg.*	5-TSOP	.62	.50	.38
NCP511SN33T1GOSTR-ND	3.3V, 150mA CMOS Low IQ, LDO Volt. Reg.*	5-TSOP	561.00/3,000		
NCP553SQ28T1OSCT-ND	2.8V, 80mA CMOS Voltage Regulator	SC70-4	.80	.65	.49
NCP553SQ30T1OSCT-ND	3V, 80mA CMOS Voltage Regulator	SC70-4	.80	.65	.49
NCP562SQ25T1OSCT-ND	2.5V, 80mA CMOS LDO Voltage Regulator	SC70-4	.80	.65	.49
NCP580SQ15T1GOSCT-ND	1.5V, 120mA CMOS LDO Regulator*	SC-82AB	.70	.56	.42
NCP580SQ15T1GOSTR-ND	1.5V, 120mA CMOS LDO Regulator*	SC-82AB	630.00/3,000		
NCP580SQ18T1GOSCT-ND	1.8V, 120mA CMOS LDO Regulator*	SC-82AB	.70	.56	.42
NCP580SQ18T1GOSTR-ND	1.8V, 120mA CMOS LDO Regulator*	SC-82AB	630.00/3,000		
NCP580SQ25T1GOSCT-ND	2.5V, 120mA CMOS LDO Regulator*	SC-82AB	.70	.56	.42
NCP580SQ25T1GOSTR-ND	2.5V, 120mA CMOS LDO Regulator*	SC-82AB	630.00/3,000		
NCP580SQ28T1GOSCT-ND	2.8V, 120mA CMOS LDO Regulator*	SC-82AB	.70	.56	.42
NCP580SQ28T1GOSTR-ND	2.8V, 120mA CMOS LDO Regulator*	SC-82AB	630.00/3,000		
NCP580SQ30T1GOSCT-ND	3V, 120mA CMOS LDO Regulator*	SC-82AB	.70	.56	.42
NCP580SQ30T1GOSTR-ND	3V, 120mA CMOS LDO Regulator*	SC-82AB	630.00/3,000		
NCP580SQ33T1GOSCT-ND	3.3V, 120mA CMOS LDO Regulator*	SC-82AB	.70	.56	.42
NCP580SQ33T1GOSTR-ND	3.3V, 120mA CMOS LDO Regulator*	SC-82AB	630.00/3,000		
NCP582DSQ15T1OSCT-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582DSQ15T1OSTR-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582DSQ18T1OSCT-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582DSQ18T1OSTR-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582DSQ25T1OSCT-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582DSQ25T1OSTR-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582DSQ28T1OSCT-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582DSQ28T1OSTR-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582DSQ30T1OSCT-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582DSQ30T1OSTR-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582DSQ33T1OSCT-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582DSQ33T1OSTR-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582LSQ15T1OSCT-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582LSQ15T1OSTR-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582LSQ18T1OSCT-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582LSQ18T1OSTR-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582LSQ25T1OSCT-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582LSQ25T1OSTR-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582LSQ28T1OSCT-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582LSQ28T1OSTR-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582LSQ30T1OSCT-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582LSQ30T1OSTR-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582LSQ33T1OSCT-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582LSQ33T1OSTR-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP583SQ15T1GOSCT-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP583SQ15T1GOSTR-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP583SQ18T1GOSCT-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP583SQ18T1GOSTR-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP583SQ25T1GOSCT-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP583SQ25T1GOSTR-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP583SQ28T1GOSCT-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP583SQ28T1GOSTR-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP583SQ30T1GOSCT-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42

***** RoHS Compliant*

(Continued)

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ON Semiconductor™ DigiReel® LDO REGULATORS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NCP583SQ30T1GOSTR-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP583SQ33T1GOSCT-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP583SQ33T1GOSTR-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP584HSN09T1GOSCT-ND	0.9V, 200mA CMOS LDO Regulator*	SOT-23-5	.75	.60	.45
NCP584HSN09T1GOSTR-ND	0.9V, 200mA CMOS LDO Regulator*	SOT-23-5	711.00/3,000		
NCP584HSN12T1GOSCT-ND	1.2V, 200mA CMOS LDO Regulator*	SOT-23-5	.75	.60	.45
NCP584HSN12T1GOSTR-ND	1.2V, 200mA CMOS LDO Regulator*	SOT-23-5	711.00/3,000		
NCP584HSN18T1GOSCT-ND	1.8V, 200mA CMOS LDO Regulator*	SOT-23-5	.75	.60	.45
NCP584HSN18T1GOSTR-ND	1.8V, 200mA CMOS LDO Regulator*	SOT-23-5	711.00/3,000		
NCP584LSN09T1GOSCT-ND	0.9V, 200mA CMOS LDO Regulator*	SOT-23-5	.75	.60	.45
NCP584LSN09T1GOSTR-ND	0.9V, 200mA CMOS LDO Regulator*	SOT-23-5	711.00/3,000		
NCP584LSN12T1GOSCT-ND	1.2V, 200mA CMOS LDO Regulator*	SOT-23-5	.75	.60	.45
NCP584LSN12T1GOSTR-ND	1.2V, 200mA CMOS LDO Regulator*	SOT-23-5	711.00/3,000		
NCP584LSN18T1GOSCT-ND	1.8V, 200mA CMOS LDO Regulator*	SOT-23-5	.75	.60	.45
NCP584LSN18T1GOSTR-ND	1.8V, 200mA CMOS LDO Regulator*	SOT-23-5	711.00/3,000		
NCP585DSN09T1GOSCT-ND	0.9V, 300mA CMOS LDO Regulator*	SOT-23-5	.85	.69	.52
NCP585DSN09T1GOSTR-ND	0.9V, 300mA CMOS LDO Regulator*	SOT-23-5	810.00/3,000		
NCP585DSN12T1GOSCT-ND	1.2V, 300mA CMOS LDO Regulator*	SOT-23-5	.85	.69	.52
NCP585DSN12T1GOSTR-ND	1.2V, 300mA CMOS LDO Regulator*	SOT-23-5	810.00/3,000		
NCP585DSN18T1GOSCT-ND	1.8V, 300mA CMOS LDO Regulator*	SOT-23-5	.85	.69	.52
NCP585DSN18T1GOSTR-ND	1.8V, 300mA CMOS LDO Regulator*	SOT-23-5	810.00/3,000		
NCP585HSN09T1GOSCT-ND	0.9V, 300mA CMOS LDO Regulator*	SOT-23-5	.91	.73	.55
NCP585HSN09T1GOSTR-ND	0.9V, 300mA CMOS LDO Regulator*	SOT-23-5	861.00/3,000		
NCP585HSN12T1GOSCT-ND	1.2V, 300mA CMOS LDO Regulator*	SOT-23-5	.91	.73	.55
NCP585HSN12T1GOSTR-ND	1.2V, 300mA CMOS LDO Regulator*	SOT-23-5	861.00/3,000		
NCP585HSN18T1GOSCT-ND	1.8V, 300mA CMOS LDO Regulator*	SOT-23-5	.91	.73	.55
NCP585HSN18T1GOSTR-ND	1.8V, 300mA CMOS LDO Regulator*	SOT-23-5	861.00/3,000		
NCP585LSN09T1GOSCT-ND	0.9V, 300mA CMOS LDO Regulator*	SOT-23-5	.91	.73	.55
NCP585LSN09T1GOSTR-ND	0.9V, 300mA CMOS LDO Regulator*	SOT-23-5	861.00/3,000		
NCP585LSN12T1GOSCT-ND	1.2V, 300mA CMOS LDO Regulator*	SOT-23-5	.91	.73	.55
NCP585LSN12T1GOSTR-ND	1.2V, 300mA CMOS LDO Regulator*	SOT-23-5	861.00/3,000		
NCP585LSN18T1GOSCT-ND	1.8V, 300mA CMOS LDO Regulator*	SOT-23-5	.91	.73	.55
NCP585LSN18T1GOSTR-ND	1.8V, 300mA CMOS LDO Regulator*	SOT-23-5	861.00/3,000		
NCP699SN15T1GOSCT-ND	1.5V, 150mA CMOS LDO with Enable*	5-TSOP	.46	.36	.26
NCP699SN15T1GOSTR-ND	1.5V, 150mA CMOS LDO with Enable*	5-TSOP	360.00/3,000		
NCP699SN18T1GOSCT-ND	1.8V, 150mA CMOS LDO with Enable*	5-TSOP	.46	.36	.26
NCP699SN18T1GOSTR-ND	1.8V, 150mA CMOS LDO with Enable*	5-TSOP	360.00/3,000		
NCP699SN25T1GOSCT-ND	2.5V, 150mA CMOS LDO with Enable*	5-TSOP	.49	.38	.28
NCP699SN25T1GOSTR-ND	2.5V, 150mA CMOS LDO with Enable*	5-TSOP	387.00/3,000		
NCP699SN28T1GOSCT-ND	2.8V, 150mA CMOS LDO with Enable*	5-TSOP	.46	.36	.26
NCP699SN28T1GOSTR-ND	2.8V, 150mA CMOS LDO with Enable*	5-TSOP	360.00/3,000		
NCP699SN30T1GOSCT-ND	3.0V, 150mA CMOS LDO with Enable*	5-TSOP	.46	.36	.26
NCP699SN30T1GOSTR-ND	3.0V, 150mA CMOS LDO with Enable*	5-TSOP	360.00/3,000		
NCP699SN33T1GOSCT-ND	3.3V, 150mA CMOS LDO with Enable*	5-TSOP	.46	.36	.26
NCP699SN33T1GOSTR-ND	3.3V, 150mA CMOS LDO with Enable*	5-TSOP	360.00/3,000		
NCP699SN50T1GOSCT-ND	5.0V, 150mA CMOS LDO with Enable*	5-TSOP	.46	.36	.26
NCP699SN50T1GOSTR-ND	5.0V, 150mA CMOS LDO with Enable*	5-TSOP	360.00/3,000		
NCP700MN180R2GOSCT-ND	1.8V, 200mA LDO Regulator*	6-DFN	1.09	.95	.73
NCP700MN180R2GOSTR-ND	1.8V, 200mA LDO Regulator*	6-DFN	1158.00/3,000		
NCP700MN280R2GOSCT-ND	2.8V, 200mA LDO Regulator*	6-DFN	1.09	.95	.73
NCP700MN280R2GOSTR-ND	2.8V, 200mA LDO Regulator*	6-DFN	1158.00/3,000		
NCP1117ST33T3GOSCT-ND	3.3V, 1A, LDO Positive Voltage Regulator*	SOT-223	.53	.43	.33
NCP1117ST33T3GOSTR-ND	3.3V, 1A, LDO Positive Voltage Regulator*	SOT-223	640.00/4,000		
NCP3520DMR2GOSCT-ND	1.2V LDO Regulator Controller*	8-Micro	1.69	1.47	1.13
NCP3520DMR2GOSTR-ND	1.2V LDO Regulator Controller*	8-Micro	2396.00/4,000		
NCP3521DMR2GOSCT-ND	1.5V LDO Regulator Controller*	8-Micro	1.69	1.47	1.13
NCP3521DMR2GOSTR-ND	1.5V LDO Regulator Controller*	8-Micro	2396.00/4,000		
TDA1085CGOS-ND	Universal Motor Speed Controller*	16-Dip	2.01	1.68	1.41

ON Semiconductor™ DigiReel® MICRO-INTEGRATION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NUF2101MT1GOSCT-ND	USB Filter with ESD Protection*	6-TSOP	.90	.72	.54
NUF2101MT1GOSTR-ND	USB Filter with ESD Protection*	6-TSOP	855.00/3,000		
NUP4201DR2OSCT-ND	Low Capacitance Surface Mount TVS	8-SOIC	1.78	1.49	1.25
NUP4201DR2OSTR-ND	Low Capacitance Surface Mount TVS	8-SOIC	4800.00/2,500		
NUP4201MR6T1GOSCT-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection*	6-TSOP	1.12	.90	.68
NUP4201MR6T1GOSTR-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection*	6-TSOP	1065.00/3,000		

ON Semiconductor™ DigiReel® MOS LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74HC00DR2GOSCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.42	.31	.22
74HC00DR2GOSTR-ND	Quad 2-Input NAND Gate*	14-SOIC	222.50/2,500		
74HC00DTR2GOSCT-ND	Quad 2-Input NAND Gate*	14-TSSOP	.42	.31	.22
74HC00DTR2GOSTR-ND	Quad 2-Input NAND Gate*	14-TSSOP	222.50/2,500		
74HC02DR2GOSCT-ND	Quad 2-Input NOR Gate*	14-SOIC	.42	.31	.22
74HC02DR2GOSTR-ND	Quad 2-Input NOR Gate*	14-SOIC	222.50/2,500		
74HC02DTR2GOSCT-ND	Quad 2-Input NOR Gate*	14-TSSOP	.42	.31	.22
74HC02DTR2GOSTR-ND	Quad 2-Input NOR Gate*	14-TSSOP	222.50/2,500		
74HC04DR2GOSCT-ND	Hex Inverter*	14-SOIC	.42	.31	.22
74HC04DR2GOSTR-ND	Hex Inverter*	14-SOIC	222.50/2,500		
74HC04DTR2GOSCT-ND	Hex Inverter*	14-TSSOP	.42	.31	.22
74HC04DTR2GOSTR-ND	Hex Inverter*	14-TSSOP	222.50/2,500		
74HC08DR2GOSCT-ND	Quad 2-Input AND Gate*	14-SOIC	.42	.31	.22
74HC08DR2GOSTR-ND	Quad 2-Input AND Gate*	14-SOIC	222.50/2,500		
74HC08DTR2GOSCT-ND	Quad 2-Input AND Gate*	14-TSSOP	.42	.31	.22
74HC08DTR2GOSTR-ND	Quad 2-Input AND Gate*	14-TSSOP	222.50/2,500		
74HC14DR2GOSCT-ND	Hex Inverter, Schmitt Trigger*	14-SOIC	.42	.31	.22
74HC14DR2GOSTR-ND	Hex Inverter, Schmitt Trigger*	14-SOIC	222.50/2,500		
74HC14DTR2GOSCT-ND	Hex Inverter, Schmitt Trigger*	14-TSSOP	.47	.35	.25
74HC14DTR2GOSTR-ND	Hex Inverter, Schmitt Trigger*	14-TSSOP	247.50/2,500		
74HC32DR2GOSCT-ND	Quad 2-Input OR Gate*	14-SOIC	.42	.31	.22
74HC32DR2GOSTR-ND	Quad 2-Input OR Gate*	14-SOIC	222.50/2,500		
74HC32DTR2GOSCT-ND	Quad 2-Input OR Gate*	14-TSSOP	.47	.35	.25
74HC32DTR2GOSTR-ND	Quad 2-Input OR Gate*	14-TSSOP	247.50/2,500		
74HC74DR2GOSCT-ND	Dual D-Type Flip-Flop with Set/Reset*	14-SOIC	.47	.35	.25
74HC74DR2GOSTR-ND	Dual D-Type F/F with Set/Reset*	14-SOIC	247.50/2,500		
74HC74DTR2GOSCT-ND	Dual D-Type F/F with Set/Reset*	14-TSSOP	.39	.31	.22
74HC74DTR2GOSTR-ND	Dual D-Type F/F with Set/Reset*	14-TSSOP	257.50/2,500		
74HC86DR2GOSCT-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	.47	.35	.25
74HC86DR2GOSTR-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	247.50/2,500		
74HC86DTR2GOSCT-ND	Quad 2-Input Exclusive OR Gate*	14-TSSOP	.47	.35	.25
74HC86DTR2GOSTR-ND	Quad 2-Input Exclusive OR Gate*	14-TSSOP	247.50/2,500		
74HC125DR2GOSCT-ND	Quad Tri-State Non-Inverting Buffer*	14-SOIC	.39	.31	.22
74HC125DR2GOSTR-ND	Quad Tri-State Non-Inverting Buffer*	14-SOIC	257.50/2,500		
74HC125DTR2GOSCT-ND	Quad Tri-State Non-Inverting Buffer*	14-TSSOP	.39	.31	.22
74HC125DTR2GOSTR-ND	Quad Tri-State Non-Inverting Buffer*	14-TSSOP	257.50/2,500		
74HC132DR2GOSCT-ND	Quad 2-Input NAND Gate, Schmitt Trigger*	14-SOIC	.47	.35	.25
74HC132DR2GOSTR-ND	Quad 2-Input NAND Gate, Schmitt Trigger*	14-SOIC	247.50/2,500		
74HC132DTR2GOSCT-ND	Quad 2-Input NAND Gate, Schmitt Trigger*	14-TSSOP	.43	.33	.24
74HC132DTR2GOSTR-ND	Quad 2-Input NAND Gate, Schmitt Trigger*	14-TSSOP	280.00/2,500		
74HC138DR2GOSCT-ND	1-of-8 Decoder/Demux*	16-SOIC	.43	.33	.24
74HC138DR2GOSTR-ND	1-of-8 Decoder/Demux*	16-SOIC	280.00/2,500		
74HC138DTR2GOSCT-ND	1-of-8 Decoder/Demux*	16-TSSOP	.43	.33	.24
74HC138DTR2GOSTR-ND	1-of-8 Decoder/Demux*	16-TSSOP	280.00/2,500		
74HC244DTR2GOSCT-ND	Tri-State Non-Inverting Buffer/Line Driver/Receiver*	20-TSSOP	.54	.42	.30
74HC244DTR2GOSTR-ND	Tri-State Non-Inverting Buffer/Line Driver/Receiver*	20-TSSOP	350.00/2,500		
74HC245DTR2GOSCT-ND	Tri-St. Octal Non-Inverting Bus Transceiver*	20-TSSOP	.57	.44	.32
74HC245DTR2GOSTR-ND	Tri-St. Octal Non-Inverting Bus Transceiver*	20-TSSOP	375.00/2,500		
74HC373DTR2GOSCT-ND	Tri-State Octal Non-Inverting Transparent Latch*	20-TSSOP	.54	.42	.30
74HC373DTR2GOSTR-ND	Tri-State Octal Non-Inverting Transparent Latch*	20-TSSOP	350.00/2,500		
74HC374DTR2GOSCT-ND	Tri-State Octal Non-Inverting D-Type F/F*	20-TSSOP	.54	.42	.30
74HC374DTR2GOSTR-ND	Tri-State Octal Non-Inverting D-Type F/F*	20-TSSOP	350.00/2,500		
74HC574DTR2GOSCT-ND	Tri-State Octal Non-Inverting D-Type F/F*	20-TSSOP	.55	.44	.33
74HC574DTR2GOSTR-ND	Tri-State Octal Non-Inverting D-Type F/F*	20-TSSOP	412.50/2,500		
74HC595DR2GOSCT-ND	Tri-State 8-Bit Serial-In/Serial or Parallel-Out Shift Register*	16-SOIC	.51	.40	.29
74HC595DR2GOSTR-ND	Tri-State 8-Bit Serial-In/Serial or Parallel-Out Shift Register*	16-SOIC	337.50/2,500		
74HC595DTR2GOSCT-ND	Tri-State 8-Bit Serial-In/Serial or Parallel-Out Shift Register*	16-TSSOP	.51	.40	.29
74HC595DTR2GOSTR-ND	Tri-State 8-Bit Serial-In/Serial or Parallel-Out Shift Register*	16-TSSOP	337.50/2,500		
74HCT04DR2GOSCT-ND	Hex Inverter*	14-SOIC	.47	.35	.25
74HCT04DR2GOSTR-ND	Hex Inverter*	14-SOIC	247.50/2,500		
74HCT04DTR2GOSCT-ND	Hex Inverter*	14-TSSOP	.39	.31	.22
74HCT04DTR2GOSTR-ND	Hex Inverter*	14-TSSOP	257.50/2,500		
74HCT08DR2GOSCT-ND	Quad 2-Input AND Gate*	14-SOIC	.47	.35	.25
74HCT08DR2GOSTR-ND	Quad 2-Input AND Gate*	14-SOIC	247.50/2,500		
74HCT08DTR2GOSCT-ND	Quad 2-Input AND Gate*	14-TSSOP	.47	.35	.25
74HCT08DTR2GOSTR-ND	Quad 2-Input AND Gate*	14-TSSOP	247.50/2,500		
74HCT14DR2GOSCT-ND	Hex Inverter, Schmitt Trigger*	14-SOIC	.44	.33	.23
74HCT14DR2GOSTR-ND	Hex Inverter, Schmitt Trigger*	14-SOIC	232.50/2,500		
74HCT14DTR2GOSCT-ND	Hex Inverter, Schmitt Trigger*	14-TSSOP	.47	.35	.25
74HCT14DTR2GOSTR-ND	Hex Inverter, Schmitt Trigger*	14-TSSOP	247.50/2,500		
74HCT32DR2GOSCT-ND	Quad 2-Input OR Gate with LSTTL Compatible Inputs*	14-SOIC	.47	.35	.25
74HCT32DR2GOSTR-ND	Quad 2-Input OR Gate with LSTTL Compatible Inputs*	14-SOIC	247.50/2,500		
74HCT32DTR2GOSCT-ND	Quad 2-Input OR Gate with LSTTL Compatible Inputs*	14-TSSOP	.47	.35	.25
74HCT32DTR2GOSTR-ND	Quad 2-Input OR Gate with LSTTL Compatible Inputs*	14-TSSOP	247.50/2,500		
74HCT157DR2GOSCT-ND	Quad 2-Input Data Selector/Multiplexer*	16-SOIC	.47	.38	.29
74HCT157DR2GOSTR-ND	Quad 2-Input Data Selector/Multiplexer*	16-SOIC	350.00/2,500		
74HCT157DTR2GOSCT-ND	Quad 2-Input Data Selector/Multiplexer*	16-TSSOP	.50	.40	.30
74HCT157DTR2GOSTR-ND	Quad 2-Input Data Selector/Multiplexer*	16-TSSOP	372.50/2,500		
74HCU04DR2GOSCT-ND	Hex Inverter, Unbuffered*	14-SOIC	.47	.35	.25
74HCU04DR2GOSTR-ND	Hex Inverter, Unbuffered*	14-SOIC	247.50/2,500		
74HCU04DTR2GOSCT-ND	Hex Inverter, Unbuffered*	14-TSSOP	.47	.35	.25
74HCU04DTR2GOSTR-ND	Hex Inverter, Unbuffered*	14-TSSOP	247.50/2,500		
M74VHC1G125DFT2GOSCT-ND	Tri-State Non-Inverting Buffer*	SOT-353	.34	.24	.17
M74VHC1G125DFT2GOSTR-ND	Tri-State Non-Inverting Buffer*	SOT-353	186.00/3,000		
M74VHC1GT125DT1GOSCT-ND	Noninverting Buffer/CMOS Logic Level Shifter*	SOT-23-5	.40	.28	.20
M74VHC1GT125DT1GOSTR-ND	Noninverting Buffer/CMOS Logic Level Shifter*	SOT-23-5	219.00/3,000		
MC74AC08DR2OSCT-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.28
MC74AC10DR2OSCT-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.28
MC74AC32NOS-ND	Quad 2-Input OR Gate	14-Dip	.51	.39	.29
MC74AC74DR2OSCT-ND	Dual D-Type Positive-Edge-Triggered F/F	14-SOIC	.48	.39	.29
MC74AC74NOS-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-Dip	.54	.41	.31
MC74AC541DWR2OSCT-ND	Tri-State Octal Line Driver	20-SOIC	.88	.71	.53
MC74AC541DWR2OSTR-ND	Tri-State Octal Line Driver	20-SOIC	310.00/1,000		
MC74ACT14DR2GOSCT-ND	Hex Inverter Schmitt Trigger*	14-SOIC	.64	.52	.39
MC74ACT14DR2GOSTR-ND	Hex Inverter Schmitt Trigger*	14-SOIC	480.00/2,500		
MC74ACT125DR2GOSCT-ND	Tri-State Quad Buffer*	14-SOIC	.50	.41	.31
MC74ACT125DR2GOSTR-ND	Tri-State Quad Buffer*	14-SOIC	377.50/2,500		
MC74ACT157DR2OSCT-ND	Quad 2-Input Multiplexer	16-SOIC	.60	.48	.36
MC74ACT245DWROSCT-ND	Tri-State Octal Bi-Directional Transceiver	20-SOIC	.77	.62	.46
MC74ACT245NOS-ND	Tri-State Octal Bi-Directional Transceiver	20-Dip	.99	.80	.60
MC74ACT541DTGOS-ND	Octal Line Driver*	20-TSSOP	.80	.65	.49
MC74HC00ADGOS-ND	Quad 2-Input NAND Gate*	14-SOIC	.55	.43	.31
MC74HC00ADR2GOSCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.55	.43	.31
MC74HC00ADR2GOSTR-ND	Quad 2-Input NAND Gate*	14-SOIC	360.00/2,500		
MC74HC00ANGOS-ND	Quad 2-Input NAND Gate*	14-Dip	.62	.50	.38
MC74HC02ADR2OSCT-ND	Quad 2-Input NOR Gate	14-SOIC	.55	.43	.31
MC74HC02ADR2GOSCT-ND	Quad 2-Input NOR Gate*	14-SOIC	.55	.43	.31
MC74HC02ADR2GOSTR-ND	Quad 2-Input NOR Gate*	14-SOIC	360.00/2,500		
MC74HC02ANOS-ND	Quad 2-Input NOR Gate	14-Dip	.61	.49	.37
MC74HC04ADR2GOSCT-ND	Hex Inverter*	14-SOIC	.55	.43	.31
MC74HC04ADR2GOSTR-ND	Hex Inverter*	14-SOIC	360.00/2,500		
MC74HC04ANGOS-ND	Hex Inverter*	14-Dip	.62	.50	.38
MC74HC08ADR2GOSCT-ND	Quad 2-Input AND Gate*	14-SOIC	.55	.43	.31
MC74HC08ADR2GOSTR-ND	Quad 2-Input AND Gate*	14-SOIC	360.00/2,500		
MC74HC08ADTR2GOSCT-ND	Quad 2-Input AND Gate*	14-TSSOP	.50	.39	.28
MC74HC08ADTR2GOSTR-ND	Quad 2-Input AND Gate*	14-TSSOP	327.50/2,500		
MC74HC08ANGOS-ND	Quad 2-Input AND Gate*	14-Dip	.62	.50	.38
MC74HC14ADGOS-ND	Hex Schmitt-Trigger Inverter*	14-SOIC	.50	.40	.30

* *RoHS Compliant*

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MC74HC14ADR2GOSCT-ND	Hex Schmitt-Trigger Inverter*	14-SOIC	.50	.40	.30
MC74HC14ADR2GOSTR-ND	Hex Schmitt-Trigger Inverter*	14-SOIC	375.00/2,500		
MC74HC14ADTR2GOSCT-ND	Hex Schmitt-Trigger Inverter*	14-TSSOP	.47	.38	.29
MC74HC14ADTR2GOSTR-ND	Hex Schmitt-Trigger Inverter*	14-TSSOP	355.00/2,500		
MC74HC14ANGOS-ND	Hex Schmitt-Trigger Inverter*	14-Dip	.68	.55	.41
MC74HC32ADR2GOSCT-ND	Quad 2-Input OR Gate*	14-SOIC	.55	.43	.31
MC74HC32ADR2GOSTR-ND	Quad 2-Input OR Gate*	14-SOIC	360.00/2,500		
MC74HC74ADR2GOSCT-ND	Dual D-Type Flip-Flop*	14-SOIC	.50	.40	.30
MC74HC74ADR2GOSTR-ND	Dual D-Type Flip-Flop*	14-SOIC	375.00/2,500		
MC74HC74ADTR2GOSCT-ND	Dual D-Type Flip-Flop*	14-TSSOP	.47	.38	.29
MC74HC74ADTR2GOSTR-ND	Dual D-Type Flip-Flop*	14-TSSOP	355.00/2,500		
MC74HC74ANGOS-ND	Dual D-Type Flip-Flop*	14-Dip	.68	.55	.41
MC74HC86ADR2OSCT-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.46	.37	.28
MC74HC86ADR2OSTR-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	345.00/2,500		
MC74HC86ADR2GOSCT-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	.45	.36	.27
MC74HC86ADR2GOSTR-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	337.50/2,500		
MC74HC125ADR2OSCT-ND	Tri-State Quad Non-Inverting Buffer	14-SOIC	.56	.45	.34
MC74HC125ADR2GOSCT-ND	Tri-State Quad Non-Inverting Buffer*	14-SOIC	.50	.40	.30
MC74HC125ADR2GOSTR-ND	Tri-State Quad Non-Inverting Buffer*	14-SOIC	375.00/2,500		
MC74HC132ADR2GOSCT-ND	Quad 2-Input NAND Gate with Schmitt Trigger Input*	14-SOIC	.50	.40	.30
MC74HC132ADR2GOSTR-ND	Quad 2-Input NAND Gate with Schmitt Trigger Input*	14-SOIC	375.00/2,500		
MC74HC138ADR2GOSCT-ND	1-of-8 Decoder/Demux*	16-SOIC	.50	.40	.30
MC74HC138ADR2GOSTR-ND	1-of-8 Decoder/Demux*	16-SOIC	375.00/2,500		
MC74HC157ADR2OSCT-ND	Quad 2-Input Data Selector/Mux	16-SOIC	.52	.42	.32
MC74HC157ADR2OSTR-ND	Quad 2-Input Data Selector/Mux	16-SOIC	315.00/2,500		
MC74HC157ANOS-ND	Quad 2-Input Data Selector/Mux	16-Dip	.57	.43	.33
MC74HC165ADR2GOSCT-ND	8-Bit Serial or Parallel-In/Serial Out Shift Register*	16-SOIC	.65	.52	.39
MC74HC165ADR2GOSTR-ND	8-Bit Serial or Parallel-In/Serial Out Shift Register*	16-SOIC	487.50/2,500		
MC74HC244ADWR2GOSCT-ND	Tri-State Octal Inverting Buffer/Line Driver/Line Receiver*	20-SOIC	.95	.76	.57
MC74HC244ADWR2GOSTR-ND	Tri-State Octal Inverting Buffer/Line Driver/Line Receiver*	20-SOIC	326.00/1,000		
MC74HC244ANGOS-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Line Receiver*	20-Dip	.96	.83	.64
MC74HC245ADWR2GOSCT-ND	Tri-State Octal Non-Inverting Bus Transceiver*	20-SOIC	.95	.76	.57
MC74HC245ADWR2GOSTR-ND	Tri-State Octal Non-Inverting Bus Transceiver*	20-SOIC	326.00/1,000		
MC74HC374ADWROSCT-ND	Tri-State Octal Non-Inverting D-Type F/F	20-SOIC	.82	.62	.46
MC74HC390ADR2OSCT-ND	Dual 4-Stage Binary Ripple Counter	16-SOIC	.72	.58	.44
MC74HC573ADWR2GOSCT-ND	Tri-St. Octal Non-Inverting Transparent Latch*	20-SOIC	.95	.76	.57
MC74HC573ADWR2GOSTR-ND	Tri-St. Octal Non-Inverting Transparent Latch*	20-SOIC	326.00/1,000		
MC74HC573ANOS-ND	Tri-St. Octal Non-Inverting Transparent Latch	20-Dip	1.12	.90	.68
MC74HC574ANOS-ND	Tri-State Octal Non-Inverting D-Type F/F	20-Dip	1.15	.92	.69
MC74HC574ANGOS-ND	Tri-State Octal Non-Inverting D-Type F/F*	20-Dip	.96	.83	.64
MC74HC589ADR2GOSCT-ND	8-Bit Shift Register*	16-SOIC	.59	.47	.36
MC74HC589ADR2GOSTR-ND	8-Bit Shift Register*	16-SOIC	440.00/2,500		
MC74HC595ADGOS-ND	Tri-State Shift Register*	16-SOIC	.72	.58	.44
MC74HC595ADR2GOSCT-ND	Tri-State Shift Register*	16-SOIC	.72	.58	.44
MC74HC595ADR2GOSTR-ND	Tri-State Shift Register*	16-SOIC	537.50/2,500		
MC74HC595ADTR2GOSCT-ND	Tri-State Shift Register*	16-TSSOP	.65	.53	.40
MC74HC595ADTR2GOSTR-ND	Tri-State Shift Register*	16-TSSOP	490.00/2,500		
MC74HC595ANGOS-ND	Tri-State Shift Register*	16-Dip	.80	.65	.49
MC74HC4040ANGOS-ND	12-Stage Binary Ripple Counter*	16-Dip	.72	.58	.43
MC74HC4051ADTR2GOSCT-ND	Analog Mux/Demux*	16-TSSOP	.68	.55	.41
MC74HC4051ADTR2GOSTR-ND	Analog Mux/Demux*	16-TSSOP	512.50/2,500		
MC74HC4051ADWR2GOSCT-ND	Analog Mux/Demux*	16-SOIC	.90	.72	.54
MC74HC4051ADWR2GOSTR-ND	Analog Mux/Demux*	16-SOIC	310.00/1,000		
MC74HC4052ANOS-ND	Dual Analog Mux/Demux	16-Dip	.75	.61	.46
MC74HC4060ADROSCT-ND	14-Stage Binary Ripple Counter with Oscillator	16-SOIC	.72	.58	.44
MC74HC4060ADROSTR-ND	14-Stage Binary Ripple Counter with Oscillator	16-SOIC	477.50/2,500		
MC74HC4066ADR2GOSCT-ND	Quad Analog Switch/Mux/Demux*	14-SOIC	.48	.38	.29
MC74HC4066ADR2GOSTR-ND	Quad Analog Switch/Mux/Demux*	14-SOIC	357.50/2,500		
MC74HC4066ANGOS-ND	Quad Analog Switch/Mux/Demux*	14-Dip	.71	.57	.43
MC74HC4538ADR2GOSCT-ND	Dual Precision Monostable Multivibrator*	16-SOIC	.72	.58	.44
MC74HC4538ADR2GOSTR-ND	Dual Precision Monostable Multivibrator*	16-SOIC	537.50/2,500		
MC74HC4852ADR2GOSCT-ND	Analog Mux/Demux*	16-SOIC	.98	.85	.66
MC74HC4852ADR2GOSTR-ND	Analog Mux/Demux*	16-SOIC	867.50/2,500		
MC74HC1G04DFT1GOSCT-ND	Single Inverter*	SOT-353	.34	.24	.17
MC74HC1G04DFT1GOSTR-ND	Single Inverter*	SOT-353	186.00/3,000		
MC74HC1G08DTT1GOSCT-ND	Single 2-Input AND Gate*	SOT-23-5	.40	.28	.20
MC74HC1G08DTT1GOSTR-ND	Single 2-Input AND Gate*	SOT-23-5	219.00/3,000		
MC74HCT14ADR2GOSCT-ND	Hex Schmitt-Trigger Inverter*	14-SOIC	.50	.40	.30
MC74HCT14ADR2GOSTR-ND	Hex Schmitt-Trigger Inverter*	14-SOIC	375.00/2,500		
MC74HCT244ADTGOSCT-ND	Tri-State Octal Non-Inverting Buffer/ Line Driver/Receiver*	20-TSSOP	.71	.57	.43
MC74HCT244ADTGOSTR-ND	Tri-State Octal Non-Inverting Buffer/ Line Driver/Receiver*	20-TSSOP	535.00/2,500		
MC74HCT245ANOS-ND	Tri-State Octal Non-Inverting Bus Transceiver	20-Dip	1.12	.90	.68
MC74HCT374ADWOSCT-ND	Tri-State Octal Non-Inverting D-Type Flip-Flop	20-SOIC	.82	.62	.46
MC74HCT573ANOS-ND	Tri-State Octal Non-Inverting Transparent Latch	20-Dip	.96	.83	.64
MC74HCT574ADWOSCT-ND	Tri-State Octal Non-Inverting D-Type Flip-Flop	20-SOIC	.82	.62	.46
MC74LCX04DTR2GOSCT-ND	Low Voltage CMOS Hex Inverter*	14-TSSOP	.50	.41	.31
MC74LCX04DTR2GOSTR-ND	Low Voltage CMOS Hex Inverter*	14-TSSOP	327.50/2,500		
MC74LCX125DTR2GOSCT-ND	Quad Low Voltage Non-Inverting Buffer*	14-TSSOP	.53	.43	.33
MC74LCX125DTR2GOSTR-ND	Quad Low Voltage Non-Inverting Buffer*	14-TSSOP	327.50/2,500		
MC74LCX244DTR2GOSCT-ND	Low Voltage CMOS Octal Buffer*	20-TSSOP	.48	.38	.29
MC74LCX244DTR2GOSTR-ND	Low Voltage CMOS Octal Buffer*	20-TSSOP	395.00/2,500		
MC74LCX244DWR2GOSCT-ND	Low Voltage CMOS Octal Buffer*	20-SOIC	.91	.73	.55
MC74LCX244DWR2GOSTR-ND	Low Voltage CMOS Octal Buffer*	20-SOIC	313.00/1,000		
MC74LCX245DTR2GOSCT-ND	Low Voltage CMOS Octal Transceiver*	20-TSSOP	.53	.43	.32
MC74LCX245DTR2GOSTR-ND	Low Voltage CMOS Octal Transceiver*	20-TSSOP	395.00/2,500		
MC74LCX245DWOS-ND	Low Voltage CMOS Octal Transceiver	20-SOIC	.86	.69	.52
MC74LCX16244DOSCT-ND	Low Voltage CMOS 16-Bit Buffer	48-TSSOP	1.04	.83	.63
MC74VHC1GT04DOSCT-ND	Inverting Buffer/CMOS Logic Level Shifter	SOT-353	.33	.26	.18
MC74VHC1GT04DOSTR-ND	Inverting Buffer/CMOS Logic Level Shifter	SOT-353	222.00/3,000		
MC74VHC1G00DFT2GOSCT-ND	Single 2-Input NAND Gate*	SOT-353	.34	.24	.17
MC74VHC1G00DFT2GOSTR-ND	Single 2-Input NAND Gate*	SOT-353	186.00/3,000		
MC74VHC1G04DFT2GOSCT-ND	Single Inverter*	SOT-353	.34	.24	.17
MC74VHC1G04DFT2GOSTR-ND	Single Inverter*	SOT-353	186.00/3,000		
MC74VHC1G04DTT1GOSCT-ND	Single Inverter*	SOT-23-5	.40	.28	.20
MC74VHC1G04DTT1GOSTR-ND	Single Inverter*	SOT-23-5	219.00/3,000		
MC74VHC1G07DFOSCT-ND	Single Non-Inverting Buffer with Open Drain	SOT-353	.20	.17	.13
MC74VHC1G08DFT2GOSCT-ND	Single 2-Input AND Gate*	SOT-353	.34	.24	.17
MC74VHC1G08DFT2GOSTR-ND	Single 2-Input AND Gate*	SOT-353	186.00/3,000		
MC74VHC1G08DTT1GOSCT-ND	Single 2-Input AND Gate*	SOT-23-5	.40	.28	.20
MC74VHC1G08DTT1GOSTR-ND	Single 2-Input AND Gate*	SOT-23-5	219.00/3,000		
MC74VHC1G14DFT1GOSCT-ND	Single Schmitt-Trigger Inverter*	SOT-353	.34	.24	.17
MC74VHC1G14DFT1GOSTR-ND	Single Schmitt-Trigger Inverter*	SOT-353	186.00/3,000		
MC74VHC1G14DTOSCT-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.39	.29	.21
MC74VHC1G14DTOSTR-ND	Single Schmitt-Trigger Inverter	SOT-23-5	222.00/3,000		
MC74VHC1G14DTT1GOSCT-ND	Single Schmitt-Trigger Inverter*	SOT-23-5	.40	.28	.20
MC74VHC1G14DTT1GOSTR-ND	Single Schmitt-Trigger Inverter*	SOT-23-5	219.00/3,000		
MC74VHC1G32DFOSCT-ND	Single 2-Input OR Gate	SOT-353	.46	.32	.22
MC74VHC1G32DFT2GOSCT-ND	Single 2-Input OR Gate*	SOT-353	.34	.24	.17
MC74VHC1G32DFT2GOSTR-ND	Single 2-Input OR Gate*	SOT-353	186.00/3,000		
MC74VHC1G50DFOSCT-ND	High Speed CMOS Buffer	SOT-353	.34	.24	.17
MC74VHC1G50DFT2GOSCT-ND	High Speed CMOS Buffer*	SOT-353	.34	.24	.17
MC74VHC1G50DFT2GOSTR-ND	High Speed CMOS Buffer*	SOT-353	186.00/3,000		
MC74VHC1GT66DOSCT-ND	Single Supply Analog Switch	SOT-23-5	.39	.29	.21
MC74VHC4052DR2GOSCT-ND	Analog Mux/Demux*	16-SOIC	.71	.57	.43
MC74VHC4052DR2GOSTR-ND	Analog Mux/Demux*	16-SOIC	535.00/2,500		
MC74VHC4053DTR2GOSCT-ND	Analog Mux/Demux*	16-TSSOP	.71	.57	.43
MC74VHC4053DTR2GOSTR-ND	Analog Mux/Demux*	16-TSSOP	535.00/2,500		
MC14001BCPGOS-ND	Quad 2-Input NOR Gate*	14-Dip	.59	.48	.36
MC14001BDR2GOSCT-ND	Quad 2-Input NOR Gate*	14-SOIC	.55	.43	.31
MC14001BDR2GOSTR-ND	Quad 2-Input NOR Gate*	14-SOIC	360.00/2,500		
MC14001UBCPOS-ND	Quad 2-Input NOR Gate	14-Dip	.55	.45	.34
MC14011BCPGOS-ND	Quad 2-Input NAND Gate*	14-Dip	.59	.48	.36
MC14011BDGOS-ND	Quad 2-Input NAND Gate*	14-SOIC	.55	.43	.31
MC14011BDR2GOSCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.55	.43	.31
MC14011BDR2GOSTR-ND	Quad 2-Input NAND Gate*	14-SOIC	360.00/2,500		
MC14013BCPGOS-ND	Dual D-Type Flip-Flop*	14-Dip	.74	.59	.45
MC14013BDR2GOSCT-ND	Dual D-Type Flip-Flop*	14-SOIC	.45	.36	.27
MC14013BDR2GOSTR-ND	Dual D-Type Flip-Flop*	14-SOIC	337.50/2,500		
MC14016BCPGOS-ND	Quad Analog Switch/Mux*	14-Dip	.65	.53	.40
MC14017BCPGOS-ND	Decade Counter/Divider*	16-Dip	.68	.54	.41
MC14020BCPGOS-ND	14-Bit Binary Counter*	16-Dip	.85	.69	.52
MC14023BCPGOS-ND	Triple 3-Input NAND Gate*	14-Dip	.65	.53	.40
MC14025BCPGOS-ND	Triple 3-Input NOR Gate*	14-Dip	.65	.53	.40
MC14027BCPGOS-ND	Dual J-K Flip-Flop*	16-Dip	.69	.56	.42
MC14028BCPGOS-ND	BCD to Decimal Decoder*	16-Dip	.68	.55	.41
MC14029BCPOS-ND	Binary/Decade Up/Down Counter	16-Dip	1.08	.87	.65
MC14040BCPGOS-ND	12-Bit Binary Counter*	16-Dip	.77	.62	.46
MC14040BDR2GOSCT-ND	12-Bit Binary Counter*	16-SOIC	.60	.48	.36
MC14040BDR2GOSTR-ND	12-Bit Binary Counter*	16-SOIC	450.00/2,500		
MC14043BCPGOS-ND	Quad R-S Latch*	16-Dip	.75	.60	.45
MC14046BCPGOS-ND	Phase Locked Loop*	16-Dip	.80	.65	.49
MC14049BCPGOS-ND	Hex Inverter/Buffer*	16-Dip	.71	.57	.43
MC14049BDR2GOSCT-ND	Hex Inverter/Buffer*	16-SOIC	.50	.41	.31
MC14049BDR2GOSTR-ND	Hex Inverter/Buffer*	16-SOIC	377.50/2,500		
MC14049UBCPGOS-ND	Hex Inverter/Buffer*	16-Dip	.69	.56	.42
MC14049UBDR2GOSCT-ND	Hex Inverter/Buffer*	16-SOIC	.50	.41	.31
MC14049UBDR2GOSTR-ND	Hex Inverter/Buffer*	16-SOIC	400.00/2,500		
MC14050BCPGOS-ND	Hex Noninverting Buffer*	16-Dip	.71	.57	.43
MC14050BDR2GOSCT-ND	Hex Noninverting Buffer*	16-SOIC	.47	.38	.29
MC14050BDR2GOSTR-ND	Hex Noninverting Buffer*	16-SOIC	355.00/2,500		
MC14051BCPGOS-ND	8-Channel, Analog Mux/Demux*	16-Dip	.85	.69	.52
MC14051BDR2GOSCT-ND	8-Channel, Analog Mux/Demux*	16-SOIC	.60	.48	.36
MC14051BDR2GOSTR-ND	8-Channel, Analog Mux/Demux*	16-SOIC	450.00/2,500		
MC14052BDR2GOSCT-ND	Analog Mux/Demux*	16-SOIC	.68	.54	.41
MC14052BDR2GOSTR-ND	Analog Mux/Demux*	16-SOIC	535.00/2,500		
MC14053BCPGOS-ND	Triple Analog Mux/Demux*	16-Dip	.82	.66	.50
MC14053BDR2GOSCT-ND	Triple Analog Mux/Demux*	16-SOIC	.60	.48	.36
MC14053BDR2GOSTR-ND	Triple Analog Mux/Demux*	16-SOIC	450.00/2,500		
MC14060BCPGOS-ND	14-Bit Binary Counter/ Oscillator*	16-Dip	.70	.56	.42
MC14066BCPGOS-ND	Quad Analog Switch/Quad Mux*	14-Dip	.74	.59	.45
MC14066BDGOS-ND	Quad Analog Switch/Quad Mux*	14-SOIC	.48	.38	.29
MC14066BDR2OSCT-ND	Quad Analog Switch/Quad Mux	14-SOIC	.49	.40	.30
MC14066BDR2GOSCT-ND	Quad Analog Switch/Quad Mux*	14-SOIC	.48	.38	.29
MC14066BDR2GOSTR-ND	Quad Analog Switch/Quad Mux*	14-SOIC	357.50/2,500		
MC14069UBCPGOS-ND	Hex Inverter*	14-Dip	.59	.48	.36
MC14069UBDR2GOSCT-ND	Hex Inverter*	14-SOIC	.55	.43	.31
MC14069UBDR2GOSTR-ND	Hex Inverter*	14-SOIC	360.00/2,500		
MC14070BCPGOS-ND	Quad Exclusive OR Gate*	14-Dip	.68	.55	.41
MC14070BDR2GOSCT-ND	Quad Exclusive OR Gate*	14-SOIC	.45	.36	.27
MC14070BDR2GOSTR-ND	Quad Exclusive OR Gate*	14-SOIC	337.50/2,500		
MC14071BCPGOS-ND	Quad 2-Input OR Gate*	14-Dip	.60	.48	.36
MC14071BDR2GOSCT-ND	Quad 2-Input OR Gate*	14-SOIC	.45	.36	.27
MC14071BDR2GOSTR-ND	Quad 2-Input OR Gate*	14-SOIC	337.50/2,500		
MC14081BCPGOS-ND	Quad 2-Input AND Gate*	14-Dip	.59	.48	.36
MC14081BDR2GOSCT-ND	Quad 2-Input AND Gate*	14-SOIC	.45	.36	.27
MC14081BDR2GOSTR-ND	Quad 2-Input AND Gate*	14-SOIC	337.50/2,500		
MC14082BCPOS-ND	Dual 4-Input AND Gate	14-Dip	.55	.45	.34
MC14093BCPGOS-ND	Quad 2-Input NAND Schmitt Trigger*	14-Dip	.62	.50	.38
MC14093BDR2GOSCT-ND	Quad 2-Input NAND Schmitt Trigger*	14-SOIC	.48	.38	.29
MC14093BDR2GOSTR-ND	Quad 2-Input NAND Schmitt Trigger*	14-SOIC	357.50/2,500		
MC14094BCPOS-ND	Tri-State 8-Stage Shift/Store Regulator	16-Dip	.99	.80	.60
MC14094BDR2GOSCT-ND	Tri-State 8-Stage Shift/Store Regulator*	16-SOIC	.53	.43	.33
MC14094BDR2GOSTR-ND	Tri-State 8-Stage Shift/Store Regulator*	16-SOIC	400.00/2,500		
MC14106BCPGOS-ND	Hex Schmitt Trigger*	14-Dip	.68	.55	.41
MC14106BDR2GOSCT-ND	Hex Schmitt Trigger*	14-SOIC	.47	.38	.29
MC14106BDR2GOSTR-ND	Hex Schmitt Trigger*	14-SOIC	355.00/2,500		
MC14490DWGOS-ND	Hex Bounce Eliminator*	16-SOIC	6.25	5.44	4.05
MC14490PGOS-ND	Hex Bounce Eliminator*	16-Dip	6.25	5.44	4.05
MC14504BCPGOS-ND	Hex Level Shifter for TTL*	16-Dip	1.07	.86	.65
MC14504BDR2GOSCT-ND	Hex Level Shifter for TTL*	16-SOIC	1.34	1.16	.89
MC14504BDR2GOSTR-ND	Hex Level Shifter for TTL*	16-SOIC	1182.50/2,500		
MC14511BCPGOS-ND	BCD-to-Seven Segment Latch/Decoder/Driver*	16-Dip	.85	.69	.52
MC14511BDGOS-ND	BCD-to-Seven Segment Latch/Decoder/Driver*	16-SOIC	.65	.53	.40
MC14518BCPGOS-ND	Dual BCD Up Counter*	16-Dip	1.08	.87	.65
MC14521BCPGOS-ND	24-Stage Frequency Divider*	16-Dip	1.07	.86	.65
MC14528BCPGOS-ND	Dual Monostable Multivibrator*	16-Dip	.96	.77	.58
MC14536BCPGOS-ND	Programmable Timer*	16-Dip	.98	.85	.66

*** RoHS Compliant**

(Continued)

ON Semiconductor™ Digi-Reel® MOS LOGIC *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MC14536BDWR2OSCT-ND	Programmable Timer	16-SOIC	.76	.64	.51
MC14536BDWR2GOSCT-ND	Programmable Timer*	16-SOIC	.98	.85	.66
MC14536BDWR2GOSTR-ND	Programmable Timer*	16-SOIC	378.00/1,000		
MC14538BCPGOS-ND	Dual, Retriggerable, Resettable, Monostable Multivibrator*	16-Dip	.85	.69	.52
MC14538BDR2GOSCT-ND	Dual, Retriggerable, Resettable, Monostable Multivibrator*	16-SOIC	.69	.56	.42
MC14538BDR2GOSTR-ND	Dual, Retriggerable, Resettable, Monostable Multivibrator*	16-SOIC	550.00/2,500		
MC14538BDWR2GOSCT-ND	Dual, Retriggerable, Resettable, Monostable Multivibrator*	16-SOIC	.90	.72	.54
MC14538BDWR2GOSTR-ND	Dual, Retriggerable, Resettable, Monostable Multivibrator*	16-SOIC	310.00/1,000		
MC14541BCPGOS-ND	Programmable Timer*	14-Dip	.74	.60	.45
MC14541BDR2GOSCT-ND	Programmable Timer*	14-SOIC	.50	.41	.31
MC14541BDR2GOSTR-ND	Programmable Timer*	14-SOIC	377.50/2,500		
MC14543BCPGOS-ND	BCD-to-Seven Segment Latch/Decoder/Driver for Liquid Crystals*	16-Dip	.80	.65	.49
MC14584BCPGOS-ND	Hex Schmitt Trigger*	14-Dip	.71	.57	.43
MC14584BDR2GOSCT-ND	Hex Schmitt Trigger*	14-SOIC	.56	.46	.34
MC14584BDR2GOSTR-ND	Hex Schmitt Trigger*	14-SOIC	422.50/2,500		
NL7SZ57DFT2GOSCT-ND	Configurable Multifunction Gate* ***NEW!***	SC-88	.47	.33	.23
NL7SZ57DFT2GOSTR-ND	Configurable Multifunction Gate* ***NEW!***	SC-88	258.00/3,000		
NL7SZ58DFT2GOSCT-ND	Configurable Multifunction Gate* ***NEW!***	SC-88	.47	.33	.23
NL7SZ58DFT2GOSTR-ND	Configurable Multifunction Gate* ***NEW!***	SC-88	258.00/3,000		
NL7SZ97DFT2GOSCT-ND	Configurable Multifunction Gate* ***NEW!***	SC-88	.40	.30	.21
NL7SZ97DFT2GOSTR-ND	Configurable Multifunction Gate* ***NEW!***	SC-88	255.00/3,000		
NL7SZ98DFT2GOSCT-ND	Configurable Multifunction Gate* ***NEW!***	SC-88	.40	.30	.21
NL7SZ98DFT2GOSTR-ND	Configurable Multifunction Gate* ***NEW!***	SC-88	255.00/3,000		
NL17SZ00DFT2OSCT-ND	Single 2-Input NAND Gate	SOT-353	.29	.24	.16
NL17SZ00DFT2OSTR-ND	Single 2-Input NAND Gate	SOT-353	240.00/3,000		
NL17SZ00DFT2GOSCT-ND	Single 2-Input NAND Gate*	SOT-353	.39	.27	.19
NL17SZ00DFT2GOSTR-ND	Single 2-Input NAND Gate*	SOT-353	213.00/3,000		
NL17SZ04DFT2OSCT-ND	Single Inverter	SOT-353	.38	.29	.20
NL17SZ04DFT2OSTR-ND	Single Inverter	SOT-353	243.00/3,000		
NL17SZ04DFT2GOSCT-ND	Single Inverter*	SOT-353	.39	.27	.19
NL17SZ04DFT2GOSTR-ND	Single Inverter*	SOT-353	213.00/3,000		
NL17SZ07DFT2GOSCT-ND	Single Non-Inverting Buffer with OD Output*	SOT-353	.39	.27	.19
NL17SZ07DFT2GOSTR-ND	Single Non-Inverting Buffer with OD Output*	SOT-353	213.00/3,000		
NL17SZ08DFT2OSCT-ND	Single 2-Input AND Gate	SOT-353	.38	.29	.20
NL17SZ08DFT2GOSCT-ND	Single 2-Input AND Gate*	SOT-353	.39	.27	.19
NL17SZ08DFT2GOSTR-ND	Single 2-Input AND Gate*	SOT-353	213.00/3,000		
NL17SZ14DFT2OSCT-ND	Single Inverter with Schmitt Trigger	SOT-353	.38	.29	.20
NL17SZ14DFT2GOSCT-ND	Single Inverter with Schmitt Trigger*	SOT-353	.39	.27	.19
NL17SZ14DFT2GOSTR-ND	Single Inverter with Schmitt Trigger*	SOT-353	213.00/3,000		
NL17SZ16DFT2OSCT-ND	Single Input Buffer	SOT-353	.45	.36	.27
NL17SZ16DFT2GOSCT-ND	Single Input Buffer*	SOT-353	.39	.27	.19
NL17SZ16DFT2GOSTR-ND	Single Input Buffer*	SOT-353	213.00/3,000		
NL17SZ17DFT2GOSCT-ND	Single Schmitt Buffer*	SOT-353	.39	.27	.19
NL17SZ17DFT2GOSTR-ND	Single Schmitt Buffer*	SOT-353	213.00/3,000		
NL17SZ32DFT2GOSCT-ND	Single 2-Input OR Gate*	SOT-353	.39	.27	.19
NL17SZ32DFT2GOSTR-ND	Single 2-Input OR Gate*	SOT-353	213.00/3,000		
NL17SZ74USOSCT-ND	Single D-Type Flip-Flop	US8-8	.46	.36	.26
NL17SZ74USOSTR-ND	Single D-Type Flip-Flop	US8-8	642.00/3,000		
NL17SZ74USGOSCT-ND	Single D-Type Flip-Flop*	US8-8	.50	.38	.27
NL17SZ74USGOSTR-ND	Single D-Type Flip-Flop*	US8-8	321.00/3,000		
NL17SZ86DFT2OSCT-ND	Single 2-Input Exclusive OR Gate	SOT-353	.22	.18	.14
NL17SZ125DFT2GOSCT-ND	Tri-State Non-Inverting Buffer*	SOT-353	.39	.27	.19
NL17SZ125DFT2GOSTR-ND	Tri-State Non-Inverting Buffer*	SOT-353	213.00/3,000		
NL17SZ126DFT2OSCT-ND	Tri-State Non-Inverting Buffer	SOT-353	.46	.32	.22
NL17SZU04DFT2OSCT-ND	Single Unbuffered Inverter	SOT-353	.29	.24	.16
NL17SZU04DFT2OSTR-ND	Single Unbuffered Inverter	SOT-353	240.00/3,000		
NL27WZ00USOSCT-ND	Dual 2-Input NAND Gate	US8-8	1.00	.87	.67
NL27WZ00USGOSCT-ND	Dual 2-Input NAND Gate*	US8-8	.54	.42	.30
NL27WZ00USGOSTR-ND	Dual 2-Input NAND Gate*	US8-8	423.00/3,000		
NL27WZ04DFT2GOSCT-ND	Dual Inverter*	SOT-363	.39	.30	.22
NL27WZ04DFT2GOSTR-ND	Dual Inverter*	SOT-363	306.00/3,000		
NL27WZ07DFT2GOSCT-ND	Dual Buffer with OD Output*	SOT-363	.39	.30	.22
NL27WZ07DFT2GOSTR-ND	Dual Buffer with OD Output*	SOT-363	306.00/3,000		
NL27WZ08USGOSCT-ND	Dual 2-Input AND Gate*	US8-8	.54	.42	.30
NL27WZ08USGOSTR-ND	Dual 2-Input AND Gate*	US8-8	423.00/3,000		
NL27WZ14DFT2GOSCT-ND	Dual Schmitt-Trigger Inverter*	SOT-363	.39	.30	.22
NL27WZ14DFT2GOSTR-ND	Dual Schmitt-Trigger Inverter*	SOT-363	306.00/3,000		
NL27WZ17DFT2GOSCT-ND	Dual Non-Inverting Schmitt-Trigger Buffer*	SOT-363	.39	.30	.22
NL27WZ17DFT2GOSTR-ND	Dual Non-Inverting Schmitt-Trigger Buffer*	SOT-363	306.00/3,000		
NL27WZ32USGOSCT-ND	Dual 2-Input OR Gate*	US8-8	.54	.42	.30
NL27WZ32USGOSTR-ND	Dual 2-Input OR Gate*	US8-8	423.00/3,000		
NL37WZ04USOSCT-ND	Triple Inverter	US8-8	.56	.46	.34
NL37WZ04USOSTR-ND	Triple Inverter	US8-8	507.00/3,000		
NL37WZ07USOSCT-ND	Triple Buffer with OD Output	US8-8	.72	.54	.41
NL37WZ07USOSTR-ND	Triple Buffer with OD Output	US8-8	702.00/3,000		
NL37WZ14USOSCT-ND	Triple Schmitt-Trigger Inverter	US8-8	.56	.46	.34
NL37WZ14USOSTR-ND	Triple Schmitt-Trigger Inverter	US8-8	507.00/3,000		
NL37WZ16USOSCT-ND	Triple Buffer	US8-8	.56	.46	.34
NL37WZ16USOSTR-ND	Triple Buffer	US8-8	726.00/3,000		
NL37WZ17USOSCT-ND	Triple Non-Inverting Schmitt-Trigger Buffer	US8-8	.56	.46	.34
NL37WZ17USOSTR-ND	Triple Non-Inverting Schmitt-Trigger Buffer	US8-8	507.00/3,000		
NL37WZ17USGOSCT-ND	Triple Non-Inverting Schmitt-Trigger Buffer*	US8-8	.56	.46	.34
NL37WZ17USGOSTR-ND	Triple Non-Inverting Schmitt-Trigger Buffer*	US8-8	507.00/3,000		
NLU1G14MUTCGOSCT-ND	Single Inverter, Schmitt-Trigger*	6-UDFN	.66	.53	.40
NLU1G14MUTCGOSTR-ND	Single Inverter, Schmitt-Trigger*	6-UDFN	591.00/3,000		
NLU1G32MUTCGOSCT-ND	Single 2-Input OR Gate*	6-UDFN	.66	.53	.40
NLU1G32MUTCGOSTR-ND	Single 2-Input OR Gate*	6-UDFN	591.00/3,000		
NLU1G86MUTCGOSCT-ND	Single 2-Input Exclusive OR Gate*	6-UDFN	.66	.53	.40
NLU1G86MUTCGOSTR-ND	Single 2-Input Exclusive OR Gate*	6-UDFN	591.00/3,000		
NLU1GT04MUTCGOSCT-ND	Inverting Buffer, CMOS Logic Level Shifter*	6-UDFN	.66	.53	.40
NLU1GT04MUTCGOSTR-ND	Inverting Buffer, CMOS Logic Level Shifter*	6-UDFN	591.00/3,000		
NLU1GT14MUTCGOSCT-ND	Inverter, Schmitt-Trigger, CMOS Logic Level Shifter*	6-UDFN	.66	.53	.40
NLU1GT14MUTCGOSTR-ND	Inverter, Schmitt-Trigger, CMOS Logic Level Shifter*	6-UDFN	591.00/3,000		
NLU1GT32MUTCGOSCT-ND	2-Input OR Gate, CMOS Logic Level Shifter*	6-UDFN	.66	.53	.40
NLU1GT32MUTCGOSTR-ND	2-Input OR Gate, CMOS Logic Level Shifter*	6-UDFN	591.00/3,000		
NLU1GT50MUTCGOSCT-ND	Non-Inverting Buffer, CMOS Logic Level Shifter*	6-UDFN	.66	.53	.40
NLU1GT50MUTCGOSTR-ND	Non-Inverting Buffer, CMOS Logic Level Shifter*	6-UDFN	591.00/3,000		
NLU1GT86MUTCGOSCT-ND	2-Input Exclusive OR Gate, CMOS Logic Level Shifter*	6-UDFN	.66	.53	.40
NLU1GT86MUTCGOSTR-ND	2-Input Exclusive OR Gate, CMOS Logic Level Shifter*	6-UDFN	591.00/3,000		
NLU1GT125MUTCGOSCT-ND	Non-Inverting Buffer, CMOS Logic Level Shifter*	6-UDFN	.66	.53	.40
NLU1GT125MUTCGOSTR-ND	Non-Inverting Buffer, CMOS Logic Level Shifter*	6-UDFN	591.00/3,000		
NLU1GU04MUTCGPSCT-ND	Single Inverter, Unbuffered*	6-UDFN	.66	.53	.40
NLU1GU04MUTCGPSTR-ND	Single Inverter, Unbuffered*	6-UDFN	591.00/3,000		
NLU2G04MUTCGOSCT-ND	Dual Inverter*	6-UDFN	.68	.54	.41
NLU2G04MUTCGOSTR-ND	Dual Inverter*	6-UDFN	642.00/3,000		
NLU2G06MUTCGOSCT-ND	Dual Inverter, Open Drain*	6-UDFN	.68	.54	.41
NLU2G06MUTCGOSTR-ND	Dual Inverter, Open Drain*	6-UDFN	642.00/3,000		
NLU2G07MUTCGOSCT-ND	Dual Non-Inverting Buffer, OD*	6-UDFN	.75	.60	.45
NLU2G07MUTCGOSTR-ND	Dual Non-Inverting Buffer, OD*	6-UDFN	675.00/3,000		
NLU2G14MUTCGOSCT-ND	Dual Inverter, Schmitt-Trigger*	6-UDFN	.68	.54	.41
NLU2G14MUTCGOSTR-ND	Dual Inverter, Schmitt-Trigger*	6-UDFN	642.00/3,000		
NLU2G16MUTCGOSCT-ND	Dual Non-Inverting Buffer*	6-UDFN	.68	.54	.41
NLU2G16MUTCGOSTR-ND	Dual Non-Inverting Buffer*	6-UDFN	642.00/3,000		
NLU2G17MUTCGOSCT-ND	Dual Non-Inverting Buffer, Schmitt-Trigger*	6-UDFN	.75	.60	.45
NLU2G17MUTCGOSTR-ND	Dual Non-Inverting Buffer, Schmitt-Trigger*	6-UDFN	675.00/3,000		
NLU2GU04MUTCGOSCT-ND	Dual Inverter, Unbuffered*	6-UDFN	.75	.60	.45
NLU2GU04MUTCGOSTR-ND	Dual Inverter, Unbuffered*	6-UDFN	675.00/3,000		

ON Semiconductor™ Digi-Reel® POWER CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CS5211EDR14GOSCT-ND	Low Voltage Synchronous Buck Controller*	14-SOIC	2.55	2.13	1.79
CS5211EDR14GOSTR-ND	Low Voltage Synchronous Buck Controller*	14-SOIC	2762.50/2,500		
CS5211GDR14GOSCT-ND	Low Voltage Synchronous Buck Controller*	14-SOIC	2.49	2.08	1.75
CS5211GDR14GOSTR-ND	Low Voltage Synchronous Buck Controller*	14-SOIC	2697.50/2,500		
MC33152PGOS-ND	High Speed Dual MOSFET Driver*	8-Dip	1.65	1.43	1.10
MC33039DGOS-ND	Closed Loop Brushless Motor Adapter*	8-SOIC	1.76	1.53	1.18
MC33039PGOS-ND	Closed Loop Brushless Motor Adapter*	8-Dip	1.76	1.53	1.18
MC33260DR2OSCT-ND	GreenLine™ Compact Power Factor Controller	8-SOIC	1.88	1.50	1.13
MC33262PGOS-ND	Power Factor Controller*	8-Dip	1.11	.97	.75
MC34151DGOS-ND	1.5A High Speed Dual Inverting MOSFET Driver*	8-SOIC	1.62	1.41	1.09
MC34151PGOS-ND	1.5A High Speed Dual Inverting MOSFET Driver*	8-Dip	1.62	1.41	1.09
MC34152DGOS-ND	1.5A HS Dual Non-Inverting MOSFET Driver*	8-SOIC	1.58	1.37	1.05
NCP360SNAET1GOSCT-ND	USB Positive Overvoltage Protection Controller* ***NEW!***	5-TSOP	.90	.72	.54
NCP360SNAET1GOSTR-ND	USB Positive Overvoltage Protection Controller* ***NEW!***	5-TSOP	855.00/3,000		
NCP360SNT1GOSCT-ND	USB Positive Overvoltage Protection Controller* ***NEW!***	5-TSOP	.90	.72	.54
NCP360SNT1GOSTR-ND	USB Positive Overvoltage Protection Controller* ***NEW!***	5-TSOP	855.00/3,000		
NCP1015AP065GOS-ND	Self-Supplied Mono Switcher*	7-Dip	1.61	1.40	1.07
NCP1015AP100GOS-ND	Self-Supplied Mono Switcher*	7-Dip	1.61	1.40	1.07
NCP1027P065GOS-ND	800mA High Voltage Switcher*	8-Dip	2.90	2.42	2.03
NCP1027P100GOS-ND	800mA High Voltage Switcher*	8-Dip	2.90	2.42	2.03
NCP1051P100OS-ND	200mA Mono High Voltage Gated Oscillator Power Switching Regulator	8-Dip	1.35	1.13	.90
NCP1053P100OS-ND	400mA Mono High Voltage Gated Oscillator Power Switching Regulator	8-Dip	1.44	1.20	.96
NCP1396ADR2GOSCT-ND	Resonant Mode Controller*	16-SOIC	4.78	4.16	3.10
NCP1396ADR2GOSTR-ND	Resonant Mode Controller*	16-SOIC	5665.00/2,500		
NCP1606ADR2GOSCT-ND	Power Factor Controller*	8-SOIC	1.26	1.09	.84
NCP1606ADR2GOSTR-ND	Power Factor Controller*	8-SOIC	1115.00/2,500		
NCP1606BDR2GOSCT-ND	Power Factor Controller*	8-SOIC	1.26	1.09	.84
NCP1606BDR2GOSTR-ND	Power Factor Controller*	8-SOIC	1115.00/2,500		
NCP1653POS-ND	Compact Fixed Freq. Current Mode PFC Controller	8-Dip	2.37	1.98	1.66
NCP4302ADR2GOSCT-ND	Synchronous Flyback Controller*	8-SOIC	2.52	2.10	1.77
NCP4302ADR2GOSTR-ND	Synchronous Flyback Controller*	8-SOIC	2730.00/2,500		
NCP5104DR2GOSCT-ND	High Voltage, Half Bridge Driver* ***NEW!***	8-SOIC	2.40	2.00	1.68
NCP5104DR2GOSTR-ND	High Voltage, Half Bridge Driver* ***NEW!***	8-SOIC	2600.00/2,500		
NCP5104PGOS-ND	High Voltage, Half Bridge Driver* ***NEW!***	8-DIP	2.88	2.40	2.02
NCP5106ADR2GOSCT-ND	High Voltage, High and Low Side Driver*	8-SOIC	2.40	2.00	1.68
NCP5106ADR2GOSTR-ND	High Voltage, High and Low Side Driver*	8-SOIC	2600.00/2,500		
NCP5106APGOS-ND	High Voltage, High and Low Side Driver*	8-Dip	2.88	2.40	2.02
NCP5106BDR2GOSCT-ND	High Voltage, High and Low Side Driver*	8-SOIC	2.40	2.00	1.68
NCP5106BDR2GOSTR-ND	High Voltage, High and Low Side Driver*	8-SOIC	2600.00/2,500		
NCP5106BPGOS-ND	High Voltage, High and Low Side Driver*	8-Dip	2.88	2.40	2.02
TL431ACDR2OSCT-ND	2.5V, Programmable Precision Reference	8-SOIC	.58	.45	.33
TL431ACDR2GOSCT-ND	2.5V, Programmable Precision Reference*	8-SOIC	.51	.40	.29
TL431ACDR2GOSTR-ND	2.5V, Programmable Precision Reference*	8-SOIC	335.00/2,500		
TL431ACLPRAGOSCT-ND	2.5V, Programmable Precision Reference*	TO-92	.45	.35	.25
TL431ACLPRAGOSTR-ND	2.5V, Programmable Precision Reference*	TO-92	248.00/2,000		
TL431AIDR2OSCT-ND	2.5V, Programmable Precision Reference	8-SOIC	.51	.41	.31
TL431AIDR2GOSCT-ND	2.5V, Programmable Precision Reference*	8-SOIC	.55	.43	.31
TL431AIDR2GOSTR-ND	2.5V, Programmable Precision Reference*	8-SOIC	362.50/2,500		
TL431BIDR2OSCT-ND	2.5V, Programmable Precision Reference	8-SOIC	.71	.57	.43
TL431CDR2OSCT-ND	2.5V, Programmable Precision Reference	8-SOIC	.47	.36	.26
TL431CDR2OSTR-ND	2.5V, Programmable Precision Reference	8-SOIC	247.50/2,500		
TL431CDR2GOSCT-ND	2.5V, Programmable Precision Reference*	8-SOIC	.44	.34	.25
TL431CDR2GOSTR-ND	2.5V, Programmable Precision Reference*	8-SOIC	290.00/2,500		
TL431CLPGOS-ND	2.5V, Programmable Precision Reference*	TO-92	.40	.31	.23
TL431IDR2OSCT-ND	2.5V, Programmable Precision Reference	8-SOIC	.32	.24	.18
TL431IDR2OSTR-ND	2.5V, Programmable Precision Reference	8-SOIC	337.50/2,500		
UC3843BVDR2OSCT-ND	High Performance Current Mode Controller	14-SOIC	1.29	1.08	.86

*** *RoHS Compliant***

ON Semiconductor™ POWER LINEAR

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CS8101YDR8GOSCT-ND	Micropower 5V, 100mA LDO Regulator*	8-SOIC	1.93	1.61	1.35
CS8101YDR8GOSTR-ND	Micropower 5V, 100mA LDO Regulator*	8-SOIC	2087.50/2,500		
CS8101YDWFR20GOSCT-ND	Micropower 5V, 100mA LDO Regulator*	20-SOIC	2.16	1.80	1.52
CS8101YDWFR20GOSTR-ND	Micropower 5V, 100mA LDO Regulator*	20-SOIC	972.00/1,000		
CS8101YT5GOS-ND	Micropower 5V, 100mA LDO Regulator*	TO-220-5	5.64	4.92	3.66
CS8101YTHA5GOS-ND	Micropower 5V, 100mA LDO Regulator*	TO-220-5	5.43	4.73	3.52
CS8101YTVA5GOS-ND	Micropower 5V, 100mA LDO Regulator*	TO-220-5	5.43	4.73	3.52
CS8151CGN8GOS-ND	5V, 100mA LDO Linear Regulator*	8-Dip	3.24	2.82	2.10
CS8151YDWFR16GOSCT-ND	5V, 100mA LDO Linear Regulator*	16-SOIC	3.24	2.82	2.10
CS8151YDWFR16GOSTR-ND	5V, 100mA LDO Linear Regulator*	16-SOIC	1596.00/1,000		
CS8151YNF16GOS-ND	5V, 100mA LDO Linear Regulator*	16-Dip	3.61	3.15	2.35
CS8151YT7GOS-ND	5V, 100mA LDO Linear Regulator*	TO-220-7	5.35	4.66	3.47
CS8151YTHA7GOS-ND	5V, 100mA LDO Linear Regulator*	TO-220-7	5.89	5.13	3.82
CS8151YTVA7GOS-ND	5V, 100mA LDO Linear Regulator*	TO-220-7	5.89	5.13	3.82
CS8190ENF16GOS-ND	Air-Core Tach/Speedo Driver*	16-Dip	4.24	3.69	2.75
CS8361YDWFR16GOSCT-ND	5V Dual Micropower LDO Regulator*	16-SOIC	3.02	2.64	1.96
CS8361YDWFR16GOSTR-ND	5V Dual Micropower LDO Regulator*	16-SOIC	1490.00/1,000		
CS9201YDFR8OSCT-ND	MPU 5V, 100mA LDO Linear Regulator	8-SOIC	1.60	1.34	1.13
CS9201YDFR8GOSCT-ND	MPU 5V, 100mA LDO Linear Regulator*	8-SOIC	1.60	1.34	1.13
CS9201YDFR8GOSTR-ND	MPU 5V, 100mA LDO Linear Regulator*	8-SOIC	1735.00/2,500		
NCP606MN15T2GOSCT-ND	1.5V, 500mA LDO Regulator* ***NEW!***	6-DFN	1.35	1.17	.90
NCP606MN15T2GOSTR-ND	1.5V, 500mA LDO Regulator* ***NEW!***	6-DFN	1437.00/3,000		
NCP606MN33T2GOSCT-ND	3.3V, 500mA LDO Regulator* ***NEW!***	6-DFN	1.35	1.17	.90
NCP606MN33T2GOSTR-ND	3.3V, 500mA LDO Regulator* ***NEW!***	6-DFN	1437.00/3,000		
NCP606MN50T2GOSCT-ND	5V, 500mA LDO Regulator* ***NEW!***	6-DFN	1.35	1.17	.90
NCP606MN50T2GOSTR-ND	5V, 500mA LDO Regulator* ***NEW!***	6-DFN	1437.00/3,000		
NCP606MNADJT2GOSCT-ND	ADJ, 500mA LDO Regulator* ***NEW!***	6-DFN	1.35	1.17	.90
NCP606MNADJT2GOSTR-ND	ADJ, 500mA LDO Regulator* ***NEW!***	6-DFN	1437.00/3,000		
NCP698SQ15T1GOSCT-ND	1.5V, 150mA Ultra LDO Regulator* ***NEW!***	SC-82AB	.49	.38	.28
NCP698SQ15T1GOSTR-ND	1.5V, 150mA Ultra LDO Regulator* ***NEW!***	SC-82AB	387.00/3,000		
NCP698SQ25T1GOSCT-ND	2.5V, 150mA Ultra LDO Regulator* ***NEW!***	SC-82AB	.49	.38	.28
NCP698SQ25T1GOSTR-ND	2.5V, 150mA Ultra LDO Regulator* ***NEW!***	SC-82AB	387.00/3,000		
NCP698SQ33T1GOSCT-ND	3.3V, 150mA Ultra LDO Regulator* ***NEW!***	SC-82AB	.49	.38	.28
NCP698SQ33T1GOSTR-ND	3.3V, 150mA Ultra LDO Regulator* ***NEW!***	SC-82AB	387.00/3,000		
NCP698SQ50T1GOSCT-ND	5V, 150mA Ultra LDO Regulator* ***NEW!***	SC-82AB	.49	.38	.28
NCP698SQ50T1GOSTR-ND	5V, 150mA Ultra LDO Regulator* ***NEW!***	SC-82AB	387.00/3,000		
NCP3985SN18T1GOSCT-ND	1.8V, 150mA Ultra LDO Regulator* ***NEW!***	5-TSOP	1.04	.83	.63
NCP3985SN18T1GOSTR-ND	1.8V, 150mA Ultra LDO Regulator* ***NEW!***	5-TSOP	984.00/3,000		
NCP3985SN28T1GOSCT-ND	2.8V, 150mA Ultra LDO Regulator* ***NEW!***	5-TSOP	1.04	.83	.63
NCP3985SN28T1GOSTR-ND	2.8V, 150mA Ultra LDO Regulator* ***NEW!***	5-TSOP	984.00/3,000		
NCP3985SN30T1GOSCT-ND	3.0V, 150mA Ultra LDO Regulator* ***NEW!***	5-TSOP	1.04	.83	.63
NCP3985SN30T1GOSTR-ND	3.0V, 150mA Ultra LDO Regulator* ***NEW!***	5-TSOP	984.00/3,000		

ON Semiconductor™ POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADP3120AJCPZ-RLCT-ND	Dual Bootstrapped 12V MOSFET Driver*	8-SOIC	1.50	1.25	1.05
ADP3120AJCPZ-RLTR-ND	Dual Bootstrapped 12V MOSFET Driver*	8-SOIC	3190.00/5,000		
ADP3120AJRZ-ND	Dual Bootstrapped 12V MOSFET Driver*	8-SOIC	1.50	1.25	1.05
ADP3190AJRUZ-RLCT-ND	6-Bit Programmable Multiphase, Sync. Buck Controller*	28-TSSOP	2.88	2.40	2.02
ADP3190AJRUZ-RLTR-ND	6-Bit Programmable Multiphase, Sync. Buck Controller*	28-TSSOP	3120.00/2,500		
ADP3419JRMZ-REELCT-ND	Dual Bootstrapped, High Voltage MOSFET Driver*	10-MSOP	2.16	1.80	1.52
ADP3419JRMZ-REELTR-ND	Dual Bootstrapped, High Voltage MOSFET Driver*	10-MSOP	2808.00/3,000		
LM285D-1.2R2GOSCT-ND	1.235V, Micropower Voltage Regulator Diode*	8-SOIC	.85	.69	.52
LM285D-1.2R2GOSTR-ND	1.235V, Micropower Voltage Regulator Diode*	8-SOIC	675.00/2,500		
LM285D-2.5R2OSCT-ND	2.5V, Micropower Voltage Regulator Diode	8-SOIC	.75	.56	.43
LM285D-2.5R2GOSCT-ND	2.5V, Micropower Voltage Regulator Diode*	8-SOIC	.85	.69	.52
LM285D-2.5R2GOSTR-ND	2.5V, Micropower Voltage Regulator Diode*	8-SOIC	675.00/2,500		
LM285Z-1.2GOS-ND	1.235V, Micropower Voltage Regulator Diode*	TO-92	.85	.69	.52
LM285Z-2.5GOS-ND	2.5V, Micropower Voltage Regulator Diode*	TO-92	.85	.69	.52
LM285Z-2.5RAGOSCT-ND	2.5V, Micropower Voltage Regulator Diode*	TO-92	.85	.69	.52
LM285Z-2.5RAGOSTR-ND	2.5V, Micropower Voltage Regulator Diode*	TO-92	588.00/2,000		
LM385BD-1.2OS-ND	1.235V, Micropower Voltage Regulator Diode	8-SOIC	.70	.53	.40
LM385BD-1.2GOS-ND	1.235V, Micropower Voltage Regulator Diode*	8-SOIC	.80	.65	.49
LM385BD-2.5R2GOSCT-ND	2.5V, Micropower Voltage Regulator Diode*	8-SOIC	.80	.65	.49
LM385BD-2.5R2GOSTR-ND	2.5V, Micropower Voltage Regulator Diode*	8-SOIC	635.00/2,500		
LM385BZ-1.2GOS-ND	1.235V, Micropower Voltage Regulator Diode*	TO-92	.80	.65	.49
LM385BZ-2.5GOS-ND	2.5V, Micropower Voltage Regulator Diode*	TO-92	.80	.65	.49
LM385D-1.2R2GOSCT-ND	1.235V, Micropower Voltage Regulator Diode*	8-SOIC	.80	.65	.49
LM385D-1.2R2GOSTR-ND	1.235V, Micropower Voltage Regulator Diode*	8-SOIC	635.00/2,500		
LM385Z-1.2OS-ND	1.235V, Micropower Voltage Regulator Diode	TO-92	.98	.85	.65
LM385Z-1.2GOS-ND	1.235V, Micropower Voltage Regulator Diode*	TO-92	.75	.60	.45
LM385Z-2.5GOS-ND	2.5V, Micropower Voltage Regulator Diode*	TO-92	.75	.60	.45
MAX809JTRGOSCT-ND	4V Microprocessor Reset Monitor*	SOT-23	.55	.45	.34
MAX809JTRGOSTR-ND	4V Microprocessor Reset Monitor*	SOT-23	495.00/3,000		
MAX809LTRGOSCT-ND	4.63V Microprocessor Reset Monitor*	SOT-23	.55	.45	.34
MAX809LTRGOSTR-ND	4.63V Microprocessor Reset Monitor*	SOT-23	495.00/3,000		
MAX809MTRGOSCT-ND	4.38V Microprocessor Reset Monitor*	SOT-23	.55	.45	.34
MAX809MTRGOSTR-ND	4.38V Microprocessor Reset Monitor*	SOT-23	495.00/3,000		
MAX809RTRGOSCT-ND	2.63V Microprocessor Reset Monitor*	SOT-23	.55	.45	.34
MAX809RTRGOSTR-ND	2.63V Microprocessor Reset Monitor*	SOT-23	495.00/3,000		
MAX809STRGOSCT-ND	2.93V Microprocessor Reset Monitor*	SOT-23	.54	.44	.33
MAX809STRGOSTR-ND	2.93V Microprocessor Reset Monitor*	SOT-23	486.00/3,000		
MAX809TTRGOSCT-ND	3.08V Microprocessor Reset Monitor*	SOT-23	.55	.45	.34
MAX809TTRGOSTR-ND	3.08V Microprocessor Reset Monitor*	SOT-23	495.00/3,000		
MAX810MTRGOSCT-ND	4.38V Microprocessor Reset Monitor*	SOT-23	.55	.45	.34
MAX810MTRGOSTR-ND	4.38V Microprocessor Reset Monitor*	SOT-23	498.00/3,000		
MAX810TTRGOSCT-ND	3.08V Microprocessor Reset Monitor*	SOT-23	.55	.45	.34
MAX810TTRGOSTR-ND	3.08V Microprocessor Reset Monitor*	SOT-23	498.00/3,000		
MC1403DR2GOSCT-ND	Low Voltage Reference*	8-SOIC	1.11	.97	.75
MC1403DR2GOSTR-ND	Low Voltage Reference*	8-SOIC	985.00/2,500		
MC1403P1GOS-ND	Low Voltage Reference*	8-Dip	1.16	1.01	.78
MC3423DGOS-ND	Overvoltage Crowbar Sensing Circuit*	8-SOIC	1.07	.93	.72
MC3423P1GOS-ND	Overvoltage Crowbar Sensing Circuit*	8-Dip	1.11	.97	.75
MC33064D-5R2GOSCT-ND	Undervoltage Sensing Circuit*	8-SOIC	.80	.65	.49
MC33064D-5R2GOSTR-ND	Undervoltage Sensing Circuit*	8-SOIC	635.00/2,500		
MC33064P-5GOS-ND	Undervoltage Sensing Circuit*	TO-92	.80	.65	.49
MC33064P-5RAGOSCT-ND	Undervoltage Sensing Circuit*	TO-92	.80	.65	.49
MC33064P-5RAGOSTR-ND	Undervoltage Sensing Circuit*	TO-92	552.00/2,000		
MC33161DR2GOSCT-ND	Universal Voltage Monitor*	8-SOIC	1.50	1.30	1.00
MC33161DR2GOSTR-ND	Universal Voltage Monitor*	8-SOIC	1330.00/2,500		
MC33164D-5R2OSCT-ND	5V MPU Undervoltage Sensing Circuit	8-SOIC	.83	.67	.50
MC33164D-5R2GOSCT-ND	5V MPU Undervoltage Sensing Circuit*	8-SOIC	.85	.69	.52
MC33164D-5R2GOSTR-ND	5V MPU Undervoltage Sensing Circuit*	8-SOIC	675.00/2,500		
MC34064D-005GOS-ND	Undervoltage Sensing Circuit*	8-SOIC	.80	.65	.49
MC34064D-5R2GOSCT-ND	Undervoltage Sensing Circuit*	8-SOIC	.80	.65	.49
MC34064D-5R2GOSTR-ND	Undervoltage Sensing Circuit*	8-SOIC	635.00/2,500		
MC34064P-5RAGOSCT-ND	Undervoltage Sensing Circuit*	TO-92	.80	.65	.49
MC34064P-5GOS-ND	Undervoltage Sensing Circuit*	TO-92	.80	.65	.49
MC34064P-5RAGOSTR-ND	Undervoltage Sensing Circuit*	TO-92	552.00/2,000		
MC34161DR2GOSCT-ND	Universal Voltage Monitor*	8-SOIC	1.50	1.30	1.00
MC34161DR2GOSTR-ND	Universal Voltage Monitor*	8-SOIC	1330.00/2,500		
MC34164D-5R2GOSCT-ND	5V MPU Undervoltage Sensing Circuit*	8-SOIC	.85	.69	.52
MC34164D-5R2GOSTR-ND	5V MPU Undervoltage Sensing Circuit*	8-SOIC	675.00/2,500		
MC34164P-005OSCT-ND	5V MPU Undervoltage Sensing Circuit	TO-226AA	.90	.72	.54
MC34164P-005OSTR-ND	5V MPU Undervoltage Sensing Circuit	TO-226AA	1044.00/2,000		
NCP303LSN30T1GOSCT-ND	3.0V, Voltage Detector*	SOT-23-5	.55	.45	.34
NCP303LSN30T1GOSTR-ND	3.0V, Voltage Detector*	SOT-23-5	495.00/3,000		
NCP303LSN45T1GOSCT-ND	4.5V, Voltage Detector*	SOT-23-5	.55	.45	.34
NCP303LSN45T1GOSTR-ND	4.5V, Voltage Detector*	SOT-23-5	495.00/3,000		
NCP1400ASN25TOSCT-ND	2.5V, 100mA Fixed Freq. PWM Step-Up MPU Switching Regulator	TSOT-23-5	.93	.78	.62
NCP1400ASN25TOSTR-ND	2.5V, 100mA Fixed Freq. PWM Step-Up MPU Switching Regulator	TSOT-23-5	1236.00/3,000		
NCP1403SNT1OSCT-ND	15V, 50mA PFM Step-Up DC/DC Converter	5-TSOP	1.08	.97	.86
NCP1403SNT1OSTR-ND	15V, 50mA PFM Step-Up DC/DC Converter	5-TSOP	1716.00/3,000		
NCP1421DMR2GOSCT-ND	600mA Sync-Rect PFM Step-Up DC/DC Converter*	8-Micro	1.80	1.50	1.26
NCP1421DMR2GOSTR-ND	600mA Sync-Rect PFM Step-Up DC/DC Converter*	8-Micro	3120.00/4,000		
NCP1521BSNT1GOSCT-ND	1.5MHz, 600mA Step-Down DC/DC Converter*	5-TSOP	1.50	1.30	1.00
NCP1521BSNT1GOSTR-ND	1.5MHz, 600mA Step-Down DC/DC Converter*	5-TSOP	1596.00/3,000		
NCP1521BMUTBGOSCT-ND	1.5MHz, 600mA Step-Down DC/DC Converter*	6-UDFN	1.50	1.30	1.00
NCP1521BMUTBGOSTR-ND	1.5MHz, 600mA Step-Down DC/DC Converter*	6-UDFN	1596.00/3,000		
NCP5008DMR2OSCT-ND	Backlight LED Boost Driver	10-Micro	1.63	1.30	.98
NCP5050MTTXGOSCT-ND	4.5W White LED Boost Driver* ***NEW!***	10-WDFN	1.80	1.50	1.26
NCP5050MTTXGOSTR-ND	4.5W White LED Boost Driver* ***NEW!***	10-WDFN	2340.00/3,000		

ON Semiconductor™ SENSOR/SIGNAL CONDITIONING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
	Temperature				
ADM1022ARQ-ND	Sensor Temp./Detector 3/5.5V	16-QSOP	7.10	5.68	4.80
ADT7461AARMZ-ND	Temp. Monitor with Series Resistance Cancellation*	8-MSOP	5.75	5.25	4.15
ADT7461ARZ-ND	Temperature Monitor +/-1C Dual*	8-SOIC	5.75	5.25	4.15
ADT7461ARMZ-ND	Temperature Monitor +/-1C Dual*	8-MSOP	5.75	5.25	4.15
ADT7461AEBZEVB-ND	Evaluation Board for ADT7461AE*	—	100.00	—	—
EVAL-ADT7461EB-ND	Evaluation Board for ADT7461E	—	112.50	—	—
ADT7462ACPZ-5RL7CT-ND	Flexible Temp./Voltage Monitor/System Fan Controller*	32-LFCSP	8.50	6.80	5.74
ADT7462ACPZ-5RL7TR-ND	Flexible Temp./Voltage Monitor/System Fan Controller*	32-LFCSP	2699.00/500		
ADT7481ARMZ-1-ND	2-Ch., Temp. Sensor and Over Temp. Alarm*	10-MSOP	5.63	4.50	3.50
ADT7483AARQZ-ND	2-Ch., Temp. Sensor and Over Temp. Alarm*	16-QSOP	6.33	5.78	4.57

ON Semiconductor™ SIGNAL/INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM201ANGOS-ND	Non-Compensated Single Op Amp*	8-Dip	.75	.60	.45
LM211DR2GOSCT-ND	Single Comparator*	8-SOIC	.65	.53	.40
LM211DR2GOSTR-ND	Single Comparator*	8-SOIC	490.00/2,500		
LM224DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.50	.39	.28
LM224DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	325.00/2,500		
LM224NGOS-ND	Single Supply Quad Op Amp*	14-Dip	.59	.48	.36
LM239DR2OSCT-ND	Single Supply Quad Comparator	14-SOIC	.55	.43	.31
LM239DR2GOSCT-ND	Single Supply Quad Comparator*	14-SOIC	.50	.39	.28
LM239DR2GOSTR-ND	Single Supply Quad Comparator*	14-SOIC	325.00/2,500		
LM239NOS-ND	Single Supply Quad Comparator	14-Dip	.63	.50	.38
LM239NGOS-ND	Single Supply Quad Comparator*	14-Dip	.59	.48	.36
LM258DR2OSCT-ND	Single Supply Dual Op Amp	8-SOIC	.55	.43	.31
LM258DR2GOSCT-ND	Single Supply Dual Op Amp*	8-SOIC	.46	.36	.26
LM258DR2GOSTR-ND	Single Supply Dual Op Amp*	8-SOIC	302.50/2,500		
LM258NOS-ND	Single Supply Dual Op Amp	8-Dip	.50	.40	.30
LM258NGOS-ND	Single Supply Dual Op Amp*	8-Dip	.50	.41	.31
LM293DR2GOSCT-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.46	.36	.26
LM293DR2GOSTR-ND	Low Offset Voltage Dual Comparator*	8-SOIC	302.50/2,500		
LM301ANGOS-ND	Non-Compensated Single Op Amp*	8-Dip	.75	.60	.45
LM311DR2GOSCT-ND	Single Comparator*	8-SOIC	.53	.43	.33
LM311DR2GOSTR-ND	Single Comparator*	8-SOIC	400.00/2,500		
LM311NGOS-ND	Single Comparator*	8-Dip	.56	.46	.34
LM324ADGOS-ND	Single Supply Quad Op Amp*	14-SOIC	.45	.36	.27
LM324ADR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.45	.36	.27
LM324ADR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	337.50/2,500		
LM324ANGOS-ND	Single Supply Quad Op Amp*	14-Dip	.62	.50	.38
LM324DGOS-ND	Single Supply Quad Op Amp*	14-SOIC	.47	.37	.26
LM324DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.47	.37	.26
LM324DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	307.50/2,500		
LM324NGOS-ND	Single Supply Quad Op Amp*	14-Dip	.56	.46	.34
LM339DGOS-ND	Single Supply Quad Comparator*	14-SOIC	.47	.37	.26
LM339DR2OSCT-ND	Single Supply Quad Comparator	14-SOIC	.52	.40	.29
LM339DR2OSTR-ND	Single Supply Quad Comparator	14-SOIC	340.00/2,500		
LM339DR2GOSCT-ND	Single Supply Quad Comparator*	14-SOIC	.47	.37	.26
LM339DR2GOSTR-ND	Single Supply Quad Comparator*	14-SOIC	307.50/2,500		
LM339NGOS-ND	Single Supply Quad Comparator*	14-Dip	.56	.46	.34
LM358DGOS-ND	Single Supply Dual Op Amp*	8-SOIC	.43	.33	.24
LM358DR2GOSCT-ND	Single Supply Dual Op Amp*	8-SOIC	.43	.33	.24
LM358DR2GOSTR-ND	Single Supply Dual Op Amp*	8-SOIC	280.00/2,500		
LM358NGOS-ND	Single Supply Dual Op Amp*	8-Dip	.58	.45	.33

*** RoHS Compliant**

(Continued)

ON Semiconductor™ DigiReel® SIGNAL/INTERFACE *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM393DGOS-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.43	.33	.24
LM393DR2GOSCT-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.43	.33	.24
LM393DR2GOSTR-ND	Low Offset Voltage Dual Comparator*	8-SOIC	280.00/2,500		
LM393NGOS-ND	Low Offset Voltage Dual Comparator*	8-Dip	.58	.45	.33
LM833DR2GOSCT-ND	Low Noise, Audio Dual Op Amp*	8-SOIC	.68	.55	.41
LM833DR2GOSTR-ND	Low Noise, Audio Dual Op Amp*	8-SOIC	512.50/2,500		
LM2901DR2GOSCT-ND	Single Supply Quad Comparator*	14-SOIC	.48	.37	.27
LM2901DR2GOSTR-ND	Single Supply Quad Comparator*	14-SOIC	315.00/2,500		
LM2901NGOS-ND	Single Supply Quad Comparator*	14-Dip	.56	.46	.34
LM2902DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.48	.37	.27
LM2902DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	315.00/2,500		
LM2902NOS-ND	Single Supply Quad Op Amp	14-Dip	.55	.44	.33
LM2902NGOS-ND	Single Supply Quad Op Amp*	14-Dip	.65	.53	.40
LM2903DGOS-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.47	.37	.27
LM2903DR2GOSCT-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.47	.37	.27
LM2903DR2GOSTR-ND	Low Offset Voltage Dual Comparator*	8-SOIC	307.50/2,500		
LM2903NGOS-ND	Low Offset Voltage Dual Comparator*	8-Dip	.58	.45	.33
LM2904DGOS-ND	Single Supply Dual Op Amp*	8-SOIC	.47	.37	.27
LM2904DR2OSCT-ND	Single Supply Dual Op Amp	8-SOIC	.55	.43	.31
LM2904DR2GOSCT-ND	Single Supply Dual Op Amp*	8-SOIC	.47	.37	.27
LM2904DR2GOSTR-ND	Single Supply Dual Op Amp*	8-SOIC	307.50/2,500		
LM2904NGOS-ND	Single Supply Dual Op Amp*	8-Dip	.58	.45	.33
MC1413BDR2GOSCT-ND	High Voltage, High Current Darlington Transistor Array*	16-SOIC	.71	.57	.43
MC1413BDR2GOSTR-ND	High Voltage, High Current Darlington Transistor Array*	16-SOIC	532.50/2,500		
MC1413BPGOS-ND	High Voltage, High Current Darlington Transistor Array*	16-Dip	.75	.60	.45
MC1413DGOS-ND	High Voltage, High Current Darlington Transistor Array*	16-SOIC	.65	.53	.40
MC1413DR2GOSCT-ND	High Voltage, High Current Darlington Transistor Array*	16-SOIC	.65	.53	.40
MC1413DR2GOSTR-ND	High Voltage, High Current Darlington Transistor Array*	16-SOIC	490.00/2,500		
MC1455BP1GOS-ND	Monolithic Timing Circuit*	8-Dip	.69	.56	.42
MC1455P1GOS-ND	Monolithic Timing Circuit*	8-Dip	.71	.57	.43
MC1488DR2OSCT-ND	Quad Line EIA-232D Driver	14-SOIC	.67	.54	.41
MC1488DR2OSTR-ND	Quad Line EIA-232D Driver	14-SOIC	855.00/2,500		
MC1488PGOS-ND	Quad Line EIA-232D Driver*	14-Dip	.75	.60	.45
MC1489APGOS-ND	Quad Line EIA-232D Receiver*	14-Dip	.77	.62	.47
MC1489PGOS-ND	Quad Line EIA-232D Receiver*	14-Dip	.75	.60	.45
MC1496DR2GOSCT-ND	Balanced Modulator/Demodulator*	14-SOIC	1.07	.86	.65
MC1496DR2GOSTR-ND	Balanced Modulator/Demodulator*	14-SOIC	845.00/2,500		
MC1496PGOS-ND	Balanced Modulator/Demodulator*	14-Dip	1.07	.86	.65
MC3403DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.71	.57	.43
MC3403DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	532.50/2,500		
MC3479PGOS-ND	Stepper Motor Driver*	16-Dip	4.16	3.62	2.70
MC3488AP1OS-ND	Dual Line Driver	8-Dip	1.00	.84	.67
MC14513BCPOS-ND	BCD-to-Seven Segment Latch/Decoder/Driver	18-Dip	2.70	2.35	1.75
MC14553BCPGOS-ND	3-Digit BCD Counter*	16-Dip	2.31	1.93	1.62
MC33035DWR2GOSCT-ND	Brushless DC Motor Controller*	24-SOIC	4.24	3.69	2.75
MC33035DWR2GOSTR-ND	Brushless DC Motor Controller*	24-SOIC	2088.00/1,000		
MC33035PGOS-ND	Brushless DC Motor Controller*	24-Dip	4.24	3.69	2.75
MC33072ADR2GOSCT-ND	Dual Op Amp*	8-SOIC	1.12	.90	.68
MC33072ADR2GOSTR-ND	Dual Op Amp*	8-SOIC	887.50/2,500		
MC33072DR2GOSCT-ND	Dual Op Amp*	8-SOIC	1.07	.86	.65
MC33072DR2GOSTR-ND	Dual Op Amp*	8-SOIC	845.00/2,500		
MC33074APGOS-ND	Quad Op Amp*	14-Dip	1.36	1.18	.91
MC33078DGOS-ND	Low Noise Dual Op Amp*	8-SOIC	.77	.62	.47
MC33078PGOS-ND	Low Noise Dual Op Amp*	8-Dip	.83	.67	.50
MC33078DR2GOSCT-ND	Low Noise Dual Op Amp*	8-SOIC	.80	.65	.49
MC33078DR2GOSTR-ND	Low Noise Dual Op Amp*	8-SOIC	612.50/2,500		
MC33079DR2OSCT-ND	Low Noise Quad Op Amp	14-SOIC	1.15	1.00	.77
MC33079PGOS-ND	Low Noise Quad Op Amp*	14-Dip	1.07	.86	.65
MC33172DR2GOSCT-ND	Dual Supply, Low Power, Op Amp*	8-SOIC	1.07	.86	.65
MC33172DR2GOSTR-ND	Dual Supply, Low Power, Op Amp*	8-SOIC	825.00/2,500		
MC33178DR2GOSCT-ND	Dual Low Power, Low Noise Op Amp*	8-SOIC	.98	.85	.66
MC33178DR2GOSTR-ND	Dual Low Power, Low Noise Op Amp*	8-SOIC	847.50/2,500		
MC33179DR2GOSCT-ND	Quad Low Power, Low Noise, Op Amp*	14-SOIC	1.11	.97	.75
MC33179DR2GOSTR-ND	Quad Low Power, Low Noise, Op Amp*	14-SOIC	987.50/2,500		
MC33202DR2GOSCT-ND	Dual Low Voltage Rail-to-Rail Op Amp*	8-SOIC	.98	.85	.66
MC33202DR2GOSTR-ND	Dual Low Voltage Rail-to-Rail Op Amp*	8-SOIC	867.50/2,500		
MC33204DGOS-ND	Quad Low Voltage Rail-to-Rail Op Amp*	14-SOIC	1.56	1.35	1.04
MC33204DR2GOSCT-ND	Quad Low Voltage Rail-to-Rail Op Amp*	14-SOIC	1.56	1.35	1.04
MC33204DR2GOSTR-ND	Quad Low Voltage Rail-to-Rail Op Amp*	14-SOIC	1380.00/2,500		
MC33204PGOS-ND	Quad Low Voltage Rail-to-Rail Op Amp*	14-Dip	1.56	1.35	1.04
MC33272ADR2GOSCT-ND	Dual Single Supply, High Slew Rate, Op Amp*	8-SOIC	1.56	1.35	1.04
MC33272ADR2GOSTR-ND	Dual Single Supply, High Slew Rate, Op Amp*	8-SOIC	1380.00/2,500		
MC33502DR2OSCT-ND	1V, Rail-to-Rail, Dual Op Amp	8-SOIC	1.46	1.17	.91
MC33560DTBR2OSCT-ND	Interface IC for Smartcard Reader/Writer	24-TSSOP	4.20	3.36	2.84
MC34071APOS-ND	Single Supply Op Amp	8-Dip	1.20	1.04	.80
MC34071APGOS-ND	Single Supply Op Amp*	8-Dip	1.04	.84	.63
MC34072APGOS-ND	Dual Supply Op Amp*	8-Dip	1.07	.86	.65
MC34072DR2GOSCT-ND	Dual Supply Op Amp*	8-SOIC	1.01	.82	.61
MC34072DR2GOSTR-ND	Dual Supply Op Amp*	8-SOIC	802.50/2,500		
MC34072PGOS-ND	Dual Supply Op Amp*	8-Dip	1.01	.82	.61
MC34074ADR2GOSCT-ND	Quad Supply Op Amp*	14-SOIC	1.25	1.08	.84
MC34074ADR2GOSTR-ND	Quad Supply Op Amp*	14-SOIC	1105.00/2,500		
MC34074DR2GOSCT-ND	Quad Supply Op Amp*	14-SOIC	1.07	.93	.72
MC34074DR2GOSTR-ND	Quad Supply Op Amp*	14-SOIC	947.50/2,500		
NCN6000DTBR2OSCT-ND	Compact Smart Card Interface IC	20-TSSOP	2.86	2.29	1.94
NCN6000DTBR2OSTR-ND	Compact Smart Card Interface IC	20-TSSOP	4575.00/2,500		
NCP100SNT1GOSCT-ND	Sub 1V Precision Adj. Shunt Regulator*	5-TSOP	1.01	.88	.68
NCP100SNT1GOSTR-ND	Sub 1V Precision Adj. Shunt Regulator*	5-TSOP	1077.00/3,000		
NCP1002POS-ND	1.5A Integrated Off-Line Switching Regulator	8-Dip	2.25	1.80	1.35
NCP1200D40R2OSCT-ND	40kHz PWM Current Mode Controller	8-SOIC	1.36	1.14	.91
NCP1200D60R2GOSCT-ND	60kHz PWM Current Mode Controller*	8-SOIC	1.15	1.00	.77
NCP1200D60R2GOSTR-ND	60kHz PWM Current Mode Controller*	8-SOIC	1020.00/2,500		
NCP1200D100R2OSCT-ND	100kHz PWM Current Mode Controller	8-SOIC	1.36	1.14	.91
NCP1200P40OS-ND	40kHz PWM Current Mode Controller	8-Dip	1.44	1.20	.96
NCP1200P60OS-ND	60kHz PWM Current Mode Controller	8-Dip	1.26	1.09	.84
NCP1200P100OS-ND	100kHz PWM Current Mode Controller	8-Dip	1.44	1.20	.96
NCP1410DMR2OSCT-ND	250mA Sync-Rect PFM Step-Up DC/DC Converter	8-Micro	1.58	1.26	.95
NCS2202SN1T1OSCT-ND	Low Voltage Comparator with OD	SOT-23-5	.90	.72	.54
NCS2202SN2T1OSCT-ND	Low Voltage Comparator with OD	SOT-23-5	.90	.72	.54
TCA0372DP1GOS-ND	Dual 1A Output Current Op Amp*	8-Dip	1.25	1.08	.84
TCA0372DWR2GOSCT-ND	Dual 1A Output Current Op Amp*	16-SOIC	1.18	1.02	.79
TCA0372DWR2GOSTR-ND	Dual 1A Output Current Op Amp*	16-SOIC	455.00/1,000		

ON Semiconductor™ DigiReel® SMALL SIGNAL

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MMBV109LT1GOSCT-ND	30V, Silicon Epicap Diode*	SOT-23	.44	.33	.24
MMBV109LT1GOSTR-ND	30V, Silicon Epicap Diode*	SOT-23	282.00/3,000		
MMBV432LT1GOSCT-ND	14V, Silicon Tuning Diode*	SOT-23	.45	.34	.24
MMBV432LT1GOSTR-ND	14V, Silicon Tuning Diode*	SOT-23	288.00/3,000		
MMBV609LT1GOSCT-ND	20V, Silicon Tuning Diode*	SOT-23	.45	.34	.24
MMBV609LT1GOSTR-ND	20V, Silicon Tuning Diode*	SOT-23	288.00/3,000		
MMBV2101LT1OSCT-ND	30V, Silicon Tuning Diode	SOT-23	.44	.33	.24
MMBV2109LT1OSCT-ND	30V, Silicon Tuning Diode	SOT-23	.45	.34	.24
MMBV2109LT1OSTR-ND	30V, Silicon Tuning Diode	SOT-23	285.00/3,000		
MMBV3401LT1GOSCT-ND	35V, Silicon Pin Diode*	SOT-23	.45	.34	.24
MMBV3401LT1GOSTR-ND	35V, Silicon Pin Diode*	SOT-23	288.00/3,000		
MV209OS-ND	Silicon Epicap Diode	TO-92	.40	.31	.23
MV209GOS-ND	Silicon Epicap Diode*	TO-92	.50	.38	.27

ON Semiconductor™ DigiReel® SUPERVISORY CIRCUITS/ RESET GENERATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ADM1026JSTZ-ND	Control System Reference/EEPROM*	48-LQFP	11.90	11.01	8.33
ADM1026JSTZ-R7CT-ND	Control System Reference/EEPROM*	48-LQFP	9.91	8.93	7.92
ADM1026JSTZ-R7TR-ND	Control System Reference/EEPROM*	48-LQFP	3719.00/500		

ON Semiconductor™ DigiReel® SWITCHING

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NL7WB66USGOSCT-ND	Ultra-Small SPST Analog Switch*	US8-8	.59	.48	.36
NL7WB66USGOSTR-ND	Ultra-Small SPST Analog Switch*	US8-8	534.00/3,000		
NLAS323USGOSCT-ND	Dual SPST Analog Switch*	US8-8	.94	.82	.63
NLAS323USGOSTR-ND	Dual SPST Analog Switch*	US8-8	999.00/3,000		
NLAS324USGOSCT-ND	Dual SPST Analog Switch*	US8-8	.94	.82	.63
NLAS324USGOSTR-ND	Dual SPST Analog Switch*	US8-8	999.00/3,000		
NLAS1053USOSCT-ND	2:1 Mux/Demux Analog Switch	US8-8	.90	.75	.60
NLAS1053USGOSCT-ND	2:1 Mux/Demux Analog Switch*	US8-8	.94	.82	.63
NLAS1053USGOSTR-ND	2:1 Mux/Demux Analog Switch*	US8-8	999.00/3,000		
NLAS2066USGOSCT-ND	Dual SPST Analog Switch*	US8-8	.99	.80	.60
NLAS2066USGOSTR-ND	Dual SPST Analog Switch*	US8-8	942.00/3,000		

ON Semiconductor™ DigiReel® TVS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NUF2221W1T2OSCT-ND	USB Upstream Terminator with ESD Protection	SOT-363	.94	.82	.63
NUF2221W1T2OSTR-ND	USB Upstream Terminator with ESD Protection	SOT-363	999.00/3,000		
NUF2221W1T2GOSCT-ND	USB Upstream Terminator w/ESD Protection*	SOT-363	.85	.69	.52
NUF2221W1T2GOSTR-ND	USB Upstream Terminator w/ESD Protection*	SOT-363	810.00/3,000		
NUF2441FCT1GOSCT-ND	Integrated Passive Filter with ESD Protection*	6-Flip Chip	1.06	.85	.64
NUF2441FCT1GOSTR-ND	Integrated Passive Filter with ESD Protection*	6-Flip Chip	1005.00/3,000		
NUF3101FCT1GOSCT-ND	3-Line EMI Filter*	8-Flip Chip	1.08	.87	.65
NUF3101FCT1GOSTR-ND	3-Line EMI Filter*	8-Flip Chip	1026.00/3,000		
NUF4000MUT2GOSCT-ND	4-Line EMI Filter with ESD Protection* ***NEW!***	8-UDFN	.99	.80	.60
NUF4000MUT2GOSTR-ND	4-Line EMI Filter with ESD Protection* ***NEW!***	8-UDFN	942.00/3,000		
NUF4010MUT2GOSCT-ND	4-Line EMI Filter with ESD Protection* ***NEW!***	8-UDFN	1.08	.87	.65
NUF4010MUT2GOSTR-ND	4-Line EMI Filter with ESD Protection* ***NEW!***	8-UDFN	1026.00/3,000		
NUF4107FCT1GOSCT-ND	4-Ch., EMI Pi-Filter Array with Full USB Filter*	Flip Chip	.90	.75	.60
NUF4107FCT1GOSTR-ND	4-Ch., EMI Pi-Filter Array with Full USB Filter*	Flip Chip	1170.00/3,000		
NUF6005MUT2GOSCT-ND	6-Line EMI Filter with ESD Protection* ***NEW!***	12-UDFN	.96	.83	.64
NUF6005MUT2GOSTR-ND	6-Line EMI Filter with ESD Protection* ***NEW!***	12-UDFN	1017.00/3,000		
NUF6010MUT2GOSCT-ND	6-Line EMI Filter with ESD Protection* ***NEW!***	12-UDFN	.83	.67	.50
NUF6010MUT2GOSTR-ND	6-Line EMI Filter with ESD Protection* ***NEW!***	12-UDFN	792.00/3,000		
NUF6410MNT1GOSCT-ND	6-Line EMI Filter with ESD Protection* ***NEW!***	12-DFN	.81	.65	.49
NUF6410MNT1GOSTR-ND	6-Line EMI Filter with ESD Protection* ***NEW!***	12-DFN	771.00/3,000		
NUF8000MUT2GOSCT-ND	8-Line EMI Filter with ESD Protection* ***NEW!***	16-UDFN	.98	.85	.65
NUF8000MUT2GOSTR-ND	8-Line EMI Filter with ESD Protection* ***NEW!***	16-UDFN	1038.00/3,000		
NUF8010MUT2GOSCT-ND	8-Line EMI Filter with ESD Protection* ***NEW!***	16-UDFN	1.05	.91	.70
NUF8010MUT2GOSTR-ND	8-Line EMI Filter with ESD Protection* ***NEW!***	16-UDFN	1116.00/3,000		
NUP8011MUTAGOSCT-ND	Low Capacitance TVS Array* ***NEW!***	8-UDFN	.90	.72	.54
NUP8011MUTAGOSTR-ND	Low Capacitance TVS Array* ***NEW!***	8-UDFN	855.00/3,000		
NUF9001FCT1GOSCT-ND	10-Line EMI Filter*	Flip Chip	1.25	1.00	.75
NUF9001FCT1GOSTR-ND	10-Line EMI Filter*	Flip Chip	1920.00/3,000		
NUP2105LT1GOSCT-ND	Dual Line CAN Bus Protector*	SOT-23	.45	.36	.27
NUP2105LT1GOSTR-ND	Dual Line CAN Bus Protector*	SOT-23	405.00/3,000		
NUP2201MR6T1GOSCT-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection*	6-TSOP	.85	.69	.52
NUP2201MR6T1GOSTR-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection*	6-TSOP	807.00/3,000		
NUP2301MW6T1GOSCT-ND	Low Capacitance Diode Array for ESD Protection in 2 Data Lines*	SC-88	.45	.36	.27
NUP2301MW6T1GOSTR-ND	Low Capacitance Diode Array for ESD Protection in 2 Data Lines*	SC-88	405.00/3,000		
STF202-22T1OSCT-ND	USB Filter with ESD Protection	6-TSOP	1.13	.98	.75
STF202-22T1GOSCT-ND	USB Filter with ESD Protection*	6-TSOP	.71	.57	.43
STF202-22T1GOSTR-ND	USB Filter with ESD Protection*	6-TSOP	642.00/3,000		

** RoHS Compliant*

HALL-EFFECT — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AH173-PL-A-ADICT-ND	Internal Pull-Up Latch for High Temp.	SIP-3	1.61	1.40	1.08
AH173-PL-A-ADITB-ND	Internal Pull-Up Latch for High Temp.	SIP-3	2288.00/4,000		
AH173-PL-A-BDICT-ND	Internal Pull-Up Latch for High Temp.	SIP-3	1.35	1.17	.90
AH173-PL-A-BDITB-ND	Internal Pull-Up Latch for High Temp.	SIP-3	1916.00/4,000		
AH173-WL-ADICT-ND	Internal Pull-Up Latch for High Temp.	SC-59	1.61	1.40	1.08
AH173-WL-ADITR-ND	Internal Pull-Up Latch for High Temp.	SC-59	1716.00/3,000		
AH173-WL-BDICT-ND	Internal Pull-Up Latch for High Temp.	SC-59	1.50	1.30	1.00
AH173-WL-BDITR-ND	Internal Pull-Up Latch for High Temp.	SC-59	1596.00/3,000		
AH175-PL-A-ADICT-ND	Latch for High Temperature	SIP-3	1.61	1.40	1.08
AH175-PL-A-ADITB-ND	Latch for High Temperature	SIP-3	2288.00/4,000		
AH175-PL-A-BDICT-ND	Latch for High Temperature	SIP-3	1.50	1.30	1.00
AH175-PL-A-BDITB-ND	Latch for High Temperature	SIP-3	2128.00/4,000		
AH175-WL-ADICT-ND	Latch for High Temperature	SC-59	1.61	1.40	1.08
AH175-WL-ADITR-ND	Latch for High Temperature	SC-59	1716.00/3,000		
AH175-WL-BDICT-ND	Latch for High Temperature	SC-59	1.50	1.30	1.00
AH175-WL-BDITR-ND	Latch for High Temperature	SC-59	1596.00/3,000		
AH180-PL-ADICT-ND	Micropower Omnipolar Sensor Switch	SIP-3	1.58	1.37	1.05
AH180-PL-ADITB-ND	Micropower Omnipolar Sensor Switch	SIP-3	2236.00/4,000		
AH180-SNGDICT-ND	Micropower Omnipolar Sensor Switch	DFN2020-6	1.46	1.27	.98
AH180-SNGDITR-ND	Micropower Omnipolar Sensor Switch	DFN2020-6	1557.00/3,000		
AH180-WGDICT-ND	Micropower Omnipolar Sensor Switch	SC-59	1.46	1.27	.98
AH180-WGDITR-ND	Micropower Omnipolar Sensor Switch	SC-59	1557.00/3,000		
AH182-WLDICT-ND	Low Power Switch	SOT-23	1.61	1.40	1.08
AH182-WLDITR-ND	Low Power Switch	SOT-23	1716.00/3,000		
AH183-WLDICT-ND	Low Power Switch	SOT-23	1.48	1.29	.99
AH183-WLDITR-ND	Low Power Switch	SOT-23	1575.00/3,000		
AH284-PL-BDI-ND	Smart Fan Motor Controller	SIP-4	1.69	1.47	1.13
AH284-YLDICT-ND	Smart Fan Motor Controller	SOT-89-5	1.91	1.66	1.28
AH284-YLDITR-ND	Smart Fan Motor Controller	SOT-89-5	1695.00/2,500		
AH285-PL-BDI-ND	Smart Fan Motor Controller	SIP-5	1.91	1.66	1.28
AH285-YLDICT-ND	Smart Fan Motor Controller	SOT-89-5	1.91	1.66	1.28
AH285-YLDITR-ND	Smart Fan Motor Controller	SOT-89-5	1695.00/2,500		
AH286-PL-BDI-ND	Smart Fan Motor Controller	SIP-5	1.91	1.66	1.28
AH286-YLDICT-ND	Smart Fan Motor Controller	SOT-89-5	1.91	1.66	1.28
AH286-YLDITR-ND	Smart Fan Motor Controller	SOT-89-5	1695.00/2,500		
AH287-PL-BDI-ND	High Voltage Smart Fan Motor Controller	SIP-4	2.01	1.68	1.41
AH287-YLDICT-ND	High Voltage Smart Fan Motor Controller	SOT-89-5	2.01	1.68	1.41
AH287-YLDITR-ND	High Voltage Smart Fan Motor Controller	SOT-89-5	2177.50/2,500		
AH288-PL-BDI-ND	High Voltage Smart Fan Motor Controller	SIP-5	2.19	1.83	1.54
AH288-YLDICT-ND	High Voltage Smart Fan Motor Controller	SOT-89-5	2.19	1.83	1.54
AH288-YLDITR-ND	High Voltage Smart Fan Motor Controller	SOT-89-5	2372.50/2,500		
AH289-PL-BDI-ND	High Voltage Smart Fan Motor Controller	SIP-5	2.19	1.83	1.54
AH289-YLDICT-ND	High Voltage Smart Fan Motor Controller	SOT-89-5	2.19	1.83	1.54
AH289-YLDITR-ND	High Voltage Smart Fan Motor Controller	SOT-89-5	2372.50/2,500		
AH291-PL-BDI-ND	Low Voltage Smart Fan Motor Controller	SIP-4	1.61	1.40	1.08
AH291-YLDICT-ND	Low Voltage Smart Fan Motor Controller	SOT-89-5	1.61	1.40	1.08
AH291-YLDITR-ND	Low Voltage Smart Fan Motor Controller	SOT-89-5	1430.00/2,500		
AH292-YLDICT-ND	Low Voltage Smart Fan Motor Controller	SOT-89-5	1.84	1.60	1.23
AH292-YLDITR-ND	Low Voltage Smart Fan Motor Controller	SOT-89-5	1630.00/2,500		
AH293-PL-BDI-ND	Low Voltage Smart Fan Motor Controller	SIP-5	1.84	1.60	1.23
AH293-YLDICT-ND	Low Voltage Smart Fan Motor Controller	SOT-89-5	1.84	1.60	1.23
AH293-YLDITR-ND	Low Voltage Smart Fan Motor Controller	SOT-89-5	1630.00/2,500		
AH337-PL-ADICT-ND	Single Phase Switch	SIP-3	1.76	1.53	1.18
AH337-PL-ADITB-ND	Single Phase Switch	SIP-3	2500.00/4,000		
AH337-PL-BDI-ND	Single Phase Switch	SIP-3	1.76	1.53	1.18
AH337-WLDICT-ND	Single Phase Switch	SC-59	1.61	1.40	1.08
AH337-WLDITR-ND	Single Phase Switch	SC-59	1716.00/3,000		
AH342-PL-BDI-ND	Active High/Low Complementary Output Latch	SIP-4	1.91	1.66	1.28
AH373-PL-ADICT-ND	Internal Pull-Up Latch	SIP-3	1.61	1.40	1.08
AH373-PL-ADITB-ND	Internal Pull-Up Latch	SIP-3	2288.00/4,000		
AH373-PL-BDI-ND	Internal Pull-Up Latch	SIP-3	1.61	1.40	1.08
AH373-WLDICT-ND	Internal Pull-Up Latch	SC-59	1.61	1.40	1.08
AH373-WLDITR-ND	Internal Pull-Up Latch	SC-59	1716.00/3,000		
AH375-PL-ADICT-ND	Single Phase Latch	SIP-3	1.76	1.53	1.18
AH375-PL-ADITB-ND	Single Phase Latch	SIP-3	2500.00/4,000		
AH375-WLDICT-ND	Single Phase Latch	SC-59	1.61	1.40	1.08
AH375-WLDITR-ND	Single Phase Latch	SC-59	1716.00/3,000		
ATS137-PL-A-ADICT-ND	Single 3.5V to 20V Switch	SIP-3	1.99	1.73	1.33
ATS137-PL-A-ADITB-ND	Single 3.5V to 20V Switch	SIP-3	2820.00/4,000		
ATS137-PL-A-BDICT-ND	Single 3.5V to 20V Switch	SIP-3	1.65	1.43	1.10
ATS137-PL-A-BDITB-ND	Single 3.5V to 20V Switch	SIP-3	2819.60/4,000		
ATS137-PL-B-ADI-ND	Single 3.5V to 20V Switch	SIP-3	1.46	1.27	.98
ATS137-PL-B-BDI-ND	Single 3.5V to 20V Switch	SIP-3	1.46	1.27	.98
ATS137-WL-ADICT-ND	Single 3.5V to 20V Switch	SC-59	2.06	1.79	1.38
ATS137-WL-ADITR-ND	Single 3.5V to 20V Switch	SC-59	2196.00/3,000		
ATS177-PL-A-ADICT-ND	Single Output 3.5V to 20V Latch	SIP-3	1.24	1.08	.83
ATS177-PL-A-ADITB-ND	Single Output 3.5V to 20V Latch	SIP-3	1756.00/4,000		
ATS177-PL-A-BDICT-ND	Single Output 3.5V to 20V Latch	SIP-3	.95	.76	.57
ATS177-PL-A-BDITB-ND	Single Output 3.5V to 20V Latch	SIP-3	1196.00/4,000		
ATS177-PL-B-ADI-ND	Single Output 3.5V to 20V Latch	SIP-3	1.24	1.08	.83
ATS177-PL-B-BDI-ND	Single Output 3.5V to 20V Latch	SIP-3	.95	.76	.57

LDO REGULATORS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AP78L05SGDICT-ND	5V, 3-Terminal Positive Regulator ***NEW!***	SOP-8L	.72	.58	.44
AP78L05SGDITR-ND	5V, 3-Terminal Positive Regulator ***NEW!***	SOP-8L	570.00/2,500		
AP78L08SGDICT-ND	8V, 3-Terminal Positive Regulator ***NEW!***	SOP-8L	.72	.58	.44
AP78L08SGDITR-ND	8V, 3-Terminal Positive Regulator ***NEW!***	SOP-8L	570.00/2,500		
AP78L12SGDICT-ND	12V, 3-Terminal Positive Regulator ***NEW!***	SOP-8L	.72	.58	.44
AP78L12SGDITR-ND	12V, 3-Terminal Positive Regulator ***NEW!***	SOP-8L	570.00/2,500		
AP130-15RGDICT-ND	1.5V, 300mA LDO Linear Regulator	SC-59R	.57	.48	.40
AP130-15RGDITR-ND	1.5V, 300mA LDO Linear Regulator	SC-59R	741.00/3,000		
AP130-15YLDICT-ND	1.5V, 300mA LDO Linear Regulator	SOT-89	1.98	1.65	1.39
AP130-15YLDITR-ND	1.5V, 300mA LDO Linear Regulator	SOT-89	2145.00/2,500		
AP130-15YRLDICT-ND	1.5V, 300mA LDO Linear Regulator	SOT-89R	.99	.80	.60
AP130-15YRLDITR-ND	1.5V, 300mA LDO Linear Regulator	SOT-89R	785.00/2,500		
AP130-18RGDICT-ND	1.8V, 300mA LDO Linear Regulator	SC-59R	.99	.80	.60
AP130-18RGDITR-ND	1.8V, 300mA LDO Linear Regulator	SC-59R	942.00/3,000		
AP130-18WLDICT-ND	1.8V, 300mA LDO Linear Regulator	SC-59	.71	.62	.48
AP130-18WLDITR-ND	1.8V, 300mA LDO Linear Regulator	SC-59	759.00/3,000		
AP130-18YLDICT-ND	1.8V, 300mA LDO Linear Regulator	SOT-89	1.16	1.01	.78
AP130-18YLDITR-ND	1.8V, 300mA LDO Linear Regulator	SOT-89	1030.00/2,500		
AP130-18YRLDICT-ND	1.8V, 300mA LDO Linear Regulator	SOT-89R	.99	.80	.60
AP130-18YRLDITR-ND	1.8V, 300mA LDO Linear Regulator	SOT-89R	785.00/2,500		
AP130-20RGDICT-ND	2V, 300mA LDO Linear Regulator	SC-59R	.99	.80	.60
AP130-20RGDITR-ND	2V, 300mA LDO Linear Regulator	SC-59R	942.00/3,000		
AP130-20WLDICT-ND	2V, 300mA LDO Linear Regulator	SC-59	.86	.69	.52
AP130-20WLDITR-ND	2V, 300mA LDO Linear Regulator	SC-59	813.00/3,000		
AP130-20YLDICT-ND	2V, 300mA LDO Linear Regulator	SOT-89	1.16	1.01	.78
AP130-20YLDITR-ND	2V, 300mA LDO Linear Regulator	SOT-89	1030.00/2,500		
AP130-20YRLDICT-ND	2V, 300mA LDO Linear Regulator	SOT-89R	.99	.80	.60
AP130-20YRLDITR-ND	2V, 300mA LDO Linear Regulator	SOT-89R	785.00/2,500		
AP130-25RGDICT-ND	2.5V, 300mA LDO Linear Regulator	SC-59R	.99	.80	.60
AP130-25RGDITR-ND	2.5V, 300mA LDO Linear Regulator	SC-59R	942.00/3,000		
AP130-25WLDICT-ND	2.5V, 300mA LDO Linear Regulator	SC-59	.86	.69	.52
AP130-25WLDITR-ND	2.5V, 300mA LDO Linear Regulator	SC-59	813.00/3,000		
AP130-25YLDICT-ND	2.5V, 300mA LDO Linear Regulator	SOT-89	1.16	1.01	.78
AP130-25YLDITR-ND	2.5V, 300mA LDO Linear Regulator	SOT-89	1030.00/2,500		
AP130-25YRLDICT-ND	2.5V, 300mA LDO Linear Regulator	SOT-89R	.99	.80	.60
AP130-25YRLDITR-ND	2.5V, 300mA LDO Linear Regulator	SOT-89R	785.00/2,500		
AP130-28RGDICT-ND	2.8V, 300mA LDO Linear Regulator	SC-59R	.99	.80	.60
AP130-28RGDITR-ND	2.8V, 300mA LDO Linear Regulator	SC-59R	942.00/3,000		
AP130-28WLDICT-ND	2.8V, 300mA LDO Linear Regulator	SC-59	.86	.69	.52
AP130-28WLDITR-ND	2.8V, 300mA LDO Linear Regulator	SC-59	813.00/3,000		
AP130-28YLDICT-ND	2.8V, 300mA LDO Linear Regulator	SOT-89	1.16	1.01	.78
AP130-28YLDITR-ND	2.8V, 300mA LDO Linear Regulator	SOT-89	1030.00/2,500		
AP130-28YRLDICT-ND	2.8V, 300mA LDO Linear Regulator	SOT-89R	.99	.80	.60
AP130-28YRLDITR-ND	2.8V, 300mA LDO Linear Regulator	SOT-89R	785.00/2,500		
AP130-30RGDICT-ND	3V, 300mA LDO Linear Regulator	SC-59R	.99	.80	.60
AP130-30RGDITR-ND	3V, 300mA LDO Linear Regulator	SC-59R	942.00/3,000		
AP130-30WLDICT-ND	3V, 300mA LDO Linear Regulator	SC-59	.86	.69	.52
AP130-30WLDITR-ND	3V, 300mA LDO Linear Regulator	SC-59	813.00/3,000		
AP130-30YLDICT-ND	3V, 300mA LDO Linear Regulator	SOT-89	1.16	1.01	.78
AP130-30YLDITR-ND	3V, 300mA LDO Linear Regulator	SOT-89	1030.00/2,500		
AP130-30YRLDICT-ND	3V, 300mA LDO Linear Regulator	SOT-89R	.99	.80	.60
AP130-30YRLDITR-ND	3V, 300mA LDO Linear Regulator	SOT-89R	785.00/2,500		
AP130-33RGDICT-ND	3.3V, 300mA LDO Linear Regulator	SC-59R	.99	.80	.60
AP130-33RGDITR-ND	3.3V, 300mA LDO Linear Regulator	SC-59R	942.00/3,000		
AP130-33WLDICT-ND	3.3V, 300mA LDO Linear Regulator	SC-59	.86	.69	.52
AP130-33WLDITR-ND	3.3V, 300mA LDO Linear Regulator	SC-59	813.00/3,000		
AP130-33YLDICT-ND	3.3V, 300mA LDO Linear Regulator	SOT-89	.99	.80	.60
AP130-33YLDITR-ND	3.3V, 300mA LDO Linear Regulator	SOT-89	785.00/2,500		
AP130-33YRLDICT-ND	3.3V, 300mA LDO Linear Regulator	SOT-89R	.99	.80	.60
AP130-33YRLDITR-ND	3.3V, 300mA LDO Linear Regulator	SOT-89R	785.00/2,500		
AP130-35RGDICT-ND	3.5V, 300mA LDO Linear Regulator	SC-59R	.86	.69	.52
AP130-35RGDITR-ND	3.5V, 300mA LDO Linear Regulator	SC-59R	813.00/3,000		
AP130-35WLDICT-ND	3.5V, 300mA LDO Linear Regulator	SC-59	.99	.80	.60
AP130-35WLDITR-ND	3.5V, 300mA LDO Linear Regulator	SC-59	942.00/3,000		
AP130-35YLDICT-ND	3.5V, 300mA LDO Linear Regulator	SOT-89	1.16	1.01	.78
AP130-35YLDITR-ND	3.5V, 300mA LDO Linear Regulator	SOT-89	1030.00/2,500		
AP130-35YRLDICT-ND	3.5V, 300mA LDO Linear Regulator	SOT-89R	1.16	1.01	.78
AP130-35YRLDITR-ND	3.5V, 300mA LDO Linear Regulator	SOT-89R	1030.00/2,500		
AP131-15WLDICT-ND	1.5V, 300mA LDO Linear Regulator	SOT-25	1.04	.83	.63
AP131-15WLDITR-ND	1.5V, 300mA LDO Linear Regulator	SOT-25	984.00/3,000		
AP131-18WLDICT-ND	1.8V, 300mA LDO Linear Regulator	SOT-25	1.04	.83	.63
AP131-18WLDITR-ND	1.8V, 300mA LDO Linear Regulator	SOT-25	984.00/3,000		
AP131-20WLDICT-ND	2V, 300mA LDO Linear Regulator	SOT-25	1.04	.83	.63
AP131-20WLDITR-ND	2V, 300mA LDO Linear Regulator	SOT-25	984.00/3,000		
AP131-25WLDICT-ND	2.5V, 300mA LDO Linear Regulator	SOT-25	.86	.75	.58
AP131-25WLDITR-ND	2.5V, 300mA LDO Linear Regulator	SOT-25	918.00/3,000		
AP131-28WLDICT-ND	2.8V, 300mA LDO Linear Regulator	SOT-25	1.22	.98	.73
AP131-28WLDITR-ND	2.8V, 300mA LDO Linear Regulator	SOT-25	1155.00/3,000		
AP131-30WLDICT-ND	3V, 300mA LDO Linear Regulator	SOT-25	1.22	.98	.73
AP131-30WLDITR-ND	3V, 300mA LDO Linear Regulator	SOT-25	1155.00/3,000		
AP131-33WLDICT-ND	3.3V, 300mA LDO Linear Regulator	SOT-25	1.22	.98	.73
AP131-33WLDITR-ND	3.3V, 300mA LDO Linear Regulator	SOT-25	1155.00/3,000		
AP131-35WLDICT-ND	3.5V, 300mA LDO Linear Regulator	SOT-25	1.04	.83	.63
AP131-35WLDITR-ND	3.5V, 300mA LDO Linear Regulator	SOT-25	984.00/3,000		
AP139-15WLDICT-ND	1.5V, 300mA Low Noise CMOS LDO	SOT-23-5	.94	.82	.63
AP139-15WLDITR-ND	1.5V, 300mA Low Noise CMOS LDO	SOT-23-5	999.00/3,000		
AP139-18WLDICT-ND	1.8V, 300mA Low Noise CMOS LDO	SOT-23-5	.94	.82	.63
AP139-18WLDITR-ND	1.8V, 300mA Low Noise CMOS LDO	SOT-23-5	999.00/3,000		
AP139-20WLDICT-ND	2V, 300mA Low Noise CMOS LDO	SOT-23-5	1.13	.98	.75
AP139-20WLDITR-ND	2V, 300mA Low Noise CMOS LDO	SOT-23-5	1197.00/3,000		
AP139-25WLDICT-ND	2.5V, 300mA Low Noise CMOS LDO	SOT-23-5	1.13	.98	.75
AP139-25WLDITR-ND	2.5V, 300mA Low Noise CMOS LDO	SOT-23-5	1197.00/3,000		
AP139-28WLDICT-ND	2.8V, 300mA Low Noise CMOS LDO	SOT-23-5	1.13	.98	.75
AP139-28WLDITR-ND	2.8V, 300mA Low Noise CMOS LDO	SOT-23-5	1197.00/3,000		
AP139-30WLDICT-ND	3V, 300mA Low Noise CMOS LDO	SOT-23-5	1.13	.98	.75
AP139-30WLDITR-ND	3V, 300mA Low Noise CMOS LDO	SOT-23-5	1197.00/3,000		
AP139-33WLDICT-ND	3.3V, 300mA Low Noise CMOS LDO	SOT-23-5	1.13	.98	.75
AP139-33WLDITR-ND	3.3V, 300mA Low Noise CMOS LDO	SOT-23-5	1197.00/3,000		
AP139-35WLDICT-ND	3.5V, 300mA Low Noise CMOS LDO	SOT-23-5	1.13	.98	.75
AP139-35WLDITR-ND	3.5V, 300mA Low Noise CMOS LDO	SOT-23-5	1197.00/3,000		
AP1084D15LDICT-ND	1.5V, 5A LDO Positive Regulator	TO-252	1.80	1.56	1.20
AP1084D15LDITR-ND	1.5V, 5A LDO Positive Regulator	TO-252	1595.00/2,500		
AP1084D18LDICT-ND	1.8V, 5A LDO Positive Regulator	TO-252	1.80	1.56	1.20
AP1084D18LDITR-ND	1.8V, 5A LDO Positive Regulator	TO-252	1595.00/2,500		
AP1084D25LDICT-ND	2.5V, 5A LDO Positive Regulator	TO-252	1.80	1.56	1.20
AP1084D25LDITR-ND	2.5V, 5A LDO Positive Regulator	TO-252	1595.00/2,500		
AP1084D33LDICT-ND	3.3V, 5A LDO Positive Regulator	TO-252	1.80	1.56	1.20
AP1084D33LDITR-ND	3.3V, 5A LDO Positive Regulator	TO-252	1595.00/2,500		
AP1084D50LDICT-ND	5V, 5A LDO Positive Regulator	TO-252	1.80	1.56	1.20
AP1084D50LDITR-ND	5V, 5A LDO Positive Regulator	TO-252	1595.00/2,500		
AP1084DLDICT-ND	Adj., 5A LDO Positive Regulator	TO-252	1.80	1.56	1.20
AP1084DLDITR-ND	Adj., 5A LDO Positive Regulator	TO-252	1595.00/2,500		
AP1084K15LDICT-ND	1.5V, 5A LDO Positive Regulator	TO-263	1.91	1.66	1.28
AP1084K15LDITR-ND	1.5V, 5A LDO Positive Regulator	TO-263	677.60/800		
AP1084K18LDICT-ND	1.8V, 5A LDO Positive Regulator	TO-263	1.91	1.66	1.28
AP1084K18LDITR-ND	1.8V, 5A LDO Positive Regulator	TO-263	677.60/800		
AP1084K25LDICT-ND	2.5V, 5A LDO Positive Regulator	TO-263	1.91	1.66	1.28
AP1084K25LDITR-ND	2.5V, 5A LDO Positive Regulator	TO-263	677.60/800		
AP1084K33LDICT-ND	3.3V, 5A LDO Positive Regulator	TO-263	1.91	1.66	1.28
AP1084K33LDITR-ND	3.3V, 5A LDO Positive Regulator	TO-263	677.60/800		

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LDO REGULATORS *(Continued)* — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AP1084K50LDICT-ND	5V, 5A LDO Positive Regulator	TO-263	1.91	1.66	1.28
AP1084K50LDITR-ND	5V, 5A LDO Positive Regulator	TO-263	677.60/800		
AP1084KLDICT-ND	Adj., 5A LDO Positive Regulator	TO-263	1.91	1.66	1.28
AP1084KLDITR-ND	Adj., 5A LDO Positive Regulator	TO-263	677.60/800		
AP1084T15L-UDI-ND	1.5V, 5A LDO Positive Regulator	TO-220	1.91	1.66	1.28
AP1084T18L-UDI-ND	1.8V, 5A LDO Positive Regulator	TO-220	1.91	1.66	1.28
AP1084T25L-UDI-ND	2.5V, 5A LDO Positive Regulator	TO-220	1.91	1.66	1.28
AP1084T33L-UDI-ND	3.3V, 5A LDO Positive Regulator	TO-220	1.91	1.66	1.28
AP1084T50L-UDI-ND	5V, 5A LDO Positive Regulator	TO-220	1.91	1.66	1.28
AP1084TL-UDI-ND	Adj., 5A LDO Positive Regulator	TO-220	1.91	1.66	1.28
AP1086D15LDICT-ND	1.5V, 1.5A LDO Positive Regulator	TO-252	1.91	1.66	1.28
AP1086D15LDITR-ND	1.5V, 1.5A LDO Positive Regulator	TO-252	1695.00/2,500		
AP1086D18LDICT-ND	1.8V, 1.5A LDO Positive Regulator	TO-252	1.91	1.66	1.28
AP1086D18LDITR-ND	1.8V, 1.5A LDO Positive Regulator	TO-252	1695.00/2,500		
AP1086D25LDICT-ND	2.5V, 1.5A LDO Positive Regulator	TO-252	1.91	1.66	1.28
AP1086D25LDITR-ND	2.5V, 1.5A LDO Positive Regulator	TO-252	1695.00/2,500		
AP1086D33LDICT-ND	3.3V, 1.5A LDO Positive Regulator	TO-252	1.91	1.66	1.28
AP1086D33LDITR-ND	3.3V, 1.5A LDO Positive Regulator	TO-252	1695.00/2,500		
AP1086D50LDICT-ND	5V, 1.5A LDO Positive Regulator	TO-252	1.91	1.66	1.28
AP1086D50LDITR-ND	5V, 1.5A LDO Positive Regulator	TO-252	1695.00/2,500		
AP1086DLDICT-ND	Adj., 1.5A LDO Positive Regulator	TO-252	1.61	1.40	1.08
AP1086DLDITR-ND	Adj., 1.5A LDO Positive Regulator	TO-252	1430.00/2,500		
AP1086K15LDICT-ND	1.5V, 1.5A LDO Positive Regulator	TO-263	1.91	1.66	1.28
AP1086K15LDITR-ND	1.5V, 1.5A LDO Positive Regulator	TO-263	677.60/800		
AP1086K18LDICT-ND	1.8V, 1.5A LDO Positive Regulator	TO-263	1.91	1.66	1.28
AP1086K18LDITR-ND	1.8V, 1.5A LDO Positive Regulator	TO-263	677.60/800		
AP1086K25LDICT-ND	2.5V, 1.5A LDO Positive Regulator	TO-263	1.91	1.66	1.28
AP1086K25LDITR-ND	2.5V, 1.5A LDO Positive Regulator	TO-263	677.60/800		
AP1086K33LDICT-ND	3.3V, 1.5A LDO Positive Regulator	TO-263	1.91	1.66	1.28
AP1086K33LDITR-ND	3.3V, 1.5A LDO Positive Regulator	TO-263	677.60/800		
AP1086K50LDICT-ND	5V, 1.5A LDO Positive Regulator	TO-263	1.91	1.66	1.28
AP1086K50LDITR-ND	5V, 1.5A LDO Positive Regulator	TO-263	677.60/800		
AP1086KLDICT-ND	Adj., 1.5A LDO Positive Regulator	TO-263	1.91	1.66	1.28
AP1086KLDITR-ND	Adj., 1.5A LDO Positive Regulator	TO-263	677.60/800		
AP1086T15L-UDI-ND	1.5V, 1.5A LDO Positive Regulator	TO-220	1.91	1.66	1.28
AP1086T18L-UDI-ND	1.8V, 1.5A LDO Positive Regulator	TO-220	1.91	1.66	1.28
AP1086T25L-UDI-ND	2.5V, 1.5A LDO Positive Regulator	TO-220	1.91	1.66	1.28
AP1086T33L-UDI-ND	3.3V, 1.5A LDO Positive Regulator	TO-220	1.91	1.66	1.28
AP1086T50L-UDI-ND	5V, 1.5A LDO Positive Regulator	TO-220	1.91	1.66	1.28
AP1086TL-UDI-ND	Adj., 1.5A LDO Positive Regulator	TO-220	1.91	1.66	1.28
AP1115AY15LDICT-ND	1.5V, 0.6A LDO Positive Regulator	SOT-89	.85	.68	.51
AP1115AY15LDITR-ND	1.5V, 0.6A LDO Positive Regulator	SOT-89	637.50/2,500		
AP1115AY18LDICT-ND	1.8V, 0.6A LDO Positive Regulator	SOT-89	.70	.56	.42
AP1115AY18LDITR-ND	1.8V, 0.6A LDO Positive Regulator	SOT-89	525.00/2,500		
AP1115AY25LDICT-ND	2.5V, 0.6A LDO Positive Regulator	SOT-89	.85	.68	.51
AP1115AY25LDITR-ND	2.5V, 0.6A LDO Positive Regulator	SOT-89	637.50/2,500		
AP1115AY28LDICT-ND	2.8V, 0.6A LDO Positive Regulator	SOT-89	.85	.68	.51
AP1115AY28LDITR-ND	2.8V, 0.6A LDO Positive Regulator	SOT-89	637.50/2,500		
AP1115AY30LDICT-ND	3V, 0.6A LDO Positive Regulator	SOT-89	.85	.68	.51
AP1115AY30LDITR-ND	3V, 0.6A LDO Positive Regulator	SOT-89	637.50/2,500		
AP1115AY33LDICT-ND	3.3V, 0.6A LDO Positive Regulator	SOT-89	.70	.56	.42
AP1115AY33LDITR-ND	3.3V, 0.6A LDO Positive Regulator	SOT-89	525.00/2,500		
AP1115AY35LDICT-ND	3.5V, 0.6A LDO Positive Regulator	SOT-89	.85	.68	.51
AP1115AY35LDITR-ND	3.5V, 0.6A LDO Positive Regulator	SOT-89	637.50/2,500		
AP1115AY50LDICT-ND	5V, 0.6A LDO Positive Regulator	SOT-89	.85	.68	.51
AP1115AY50LDITR-ND	5V, 0.6A LDO Positive Regulator	SOT-89	637.50/2,500		
AP1115AYLDICT-ND	Adj., 0.6A LDO Positive Regulator	SOT-89	.63	.51	.38
AP1115AYLDITR-ND	Adj., 0.6A LDO Positive Regulator	SOT-89	500.00/2,500		
AP1115BY15LDICT-ND	1.5V, 0.6A LDO Positive Regulator	SOT-89	.85	.68	.51
AP1115BY15LDITR-ND	1.5V, 0.6A LDO Positive Regulator	SOT-89	637.50/2,500		
AP1115BY18LDICT-ND	1.8V, 0.6A LDO Positive Regulator	SOT-89	.70	.56	.42
AP1115BY18LDITR-ND	1.8V, 0.6A LDO Positive Regulator	SOT-89	525.00/2,500		
AP1115BY25LDICT-ND	2.5V, 0.6A LDO Positive Regulator	SOT-89	.85	.68	.51
AP1115BY25LDITR-ND	2.5V, 0.6A LDO Positive Regulator	SOT-89	637.50/2,500		
AP1115BY28LDICT-ND	2.8V, 0.6A LDO Positive Regulator	SOT-89	.85	.68	.51
AP1115BY28LDITR-ND	2.8V, 0.6A LDO Positive Regulator	SOT-89	637.50/2,500		
AP1115BY30LDICT-ND	3V, 0.6A LDO Positive Regulator	SOT-89	.85	.68	.51
AP1115BY30LDITR-ND	3V, 0.6A LDO Positive Regulator	SOT-89	637.50/2,500		
AP1115BY33LDICT-ND	3.3V, 0.6A LDO Positive Regulator	SOT-89	.70	.56	.42
AP1115BY33LDITR-ND	3.3V, 0.6A LDO Positive Regulator	SOT-89	525.00/2,500		
AP1115BY35LDICT-ND	3.5V, 0.6A LDO Positive Regulator	SOT-89	.85	.68	.51
AP1115BY35LDITR-ND	3.5V, 0.6A LDO Positive Regulator	SOT-89	637.50/2,500		
AP1115BY50LDICT-ND	5V, 0.6A LDO Positive Regulator	SOT-89	.85	.68	.51
AP1115BY50LDITR-ND	5V, 0.6A LDO Positive Regulator	SOT-89	637.50/2,500		
AP1115BYLDICT-ND	Adj., 0.6A LDO Positive Regulator	SOT-89	.70	.56	.42
AP1115BYLDITR-ND	Adj., 0.6A LDO Positive Regulator	SOT-89	525.00/2,500		
AP1117D15LDICT-ND	1.5V, 1A LDO Positive Regulator	TO-252	.98	.85	.65
AP1117D15LDITR-ND	1.5V, 1A LDO Positive Regulator	TO-252	865.00/2,500		
AP1117D18LDICT-ND	1.8V, 1A LDO Positive Regulator	TO-252	.98	.85	.65
AP1117D18LDITR-ND	1.8V, 1A LDO Positive Regulator	TO-252	865.00/2,500		
AP1117D25LDICT-ND	2.5V, 1A LDO Positive Regulator	TO-252	.98	.85	.65
AP1117D25LDITR-ND	2.5V, 1A LDO Positive Regulator	TO-252	865.00/2,500		
AP1117D33LDICT-ND	3.3V, 1A LDO Positive Regulator	TO-252	.98	.85	.65
AP1117D33LDITR-ND	3.3V, 1A LDO Positive Regulator	TO-252	865.00/2,500		
AP1117D50LDICT-ND	5V, 1A LDO Positive Regulator	TO-252	1.16	1.01	.78
AP1117D50LDITR-ND	5V, 1A LDO Positive Regulator	TO-252	1030.00/2,500		
AP1117DLDICT-ND	Adj., 1A LDO Positive Regulator	TO-252	.98	.85	.65
AP1117DLDITR-ND	Adj., 1A LDO Positive Regulator	TO-252	865.00/2,500		
AP1117E15GDICT-ND	1.5V, 1A LDO Positive Regulator	SOT-223	.77	.62	.46
AP1117E15GDITR-ND	1.5V, 1A LDO Positive Regulator	SOT-223	605.00/2,500		
AP1117E18GDICT-ND	1.8V, 1A LDO Positive Regulator	SOT-223	.77	.62	.46
AP1117E18GDITR-ND	1.8V, 1A LDO Positive Regulator	SOT-223	605.00/2,500		
AP1117E25GDICT-ND	2.5V, 1A LDO Positive Regulator	SOT-223	.77	.62	.46
AP1117E25GDITR-ND	2.5V, 1A LDO Positive Regulator	SOT-223	605.00/2,500		
AP1117E33GDICT-ND	3.3V, 1A LDO Positive Regulator	SOT-223	.77	.62	.46
AP1117E33GDITR-ND	3.3V, 1A LDO Positive Regulator	SOT-223	605.00/2,500		
AP1117E50GDICT-ND	5V, 1A LDO Positive Regulator	SOT-223	.77	.62	.46
AP1117E50GDITR-ND	5V, 1A LDO Positive Regulator	SOT-223	605.00/2,500		
AP1117EGDICT-ND	Adj., 1A LDO Positive Regulator	SOT-223	.77	.62	.46
AP1117EGDITR-ND	Adj., 1A LDO Positive Regulator	SOT-223	605.00/2,500		
AP1117K15LDICT-ND	1.5V, 1A LDO Positive Regulator	TO-263	1.05	.91	.70
AP1117K15LDITR-ND	1.5V, 1A LDO Positive Regulator	TO-263	372.00/800		
AP1117K18LDICT-ND	1.8V, 1A LDO Positive Regulator	TO-263	1.05	.91	.70
AP1117K18LDITR-ND	1.8V, 1A LDO Positive Regulator	TO-263	372.00/800		
AP1117K25LDICT-ND	2.5V, 1A LDO Positive Regulator	TO-263	1.05	.91	.70
AP1117K25LDITR-ND	2.5V, 1A LDO Positive Regulator	TO-263	372.00/800		
AP1117K33LDICT-ND	3.3V, 1A LDO Positive Regulator	TO-263	1.05	.91	.70
AP1117K33LDITR-ND	3.3V, 1A LDO Positive Regulator	TO-263	372.00/800		
AP1117K50LDICT-ND	5V, 1A LDO Positive Regulator	TO-263	1.05	.91	.70
AP1117K50LDITR-ND	5V, 1A LDO Positive Regulator	TO-263	372.00/800		
AP1117KLDICT-ND	Adj., 1A LDO Positive Regulator	TO-263	1.05	.91	.70
AP1117KLDITR-ND	Adj., 1A LDO Positive Regulator	TO-263	372.00/800		
AP1117T15L-UDI-ND	1.5V, 1A LDO Positive Regulator	TO-220	1.05	.91	.70
AP1117T18L-UDI-ND	1.8V, 1A LDO Positive Regulator	TO-220	1.05	.91	.70
AP1117T25L-UDI-ND	2.5V, 1A LDO Positive Regulator	TO-220	1.05	.91	.70
AP1117T33L-UDI-ND	3.3V, 1A LDO Positive Regulator	TO-220	1.05	.91	.70
AP1117T50L-UDI-ND	5V, 1A LDO Positive Regulator	TO-220	1.05	.91	.70
AP1117TL-UDI-ND	Adj., 1A LDO Positive Regulator	TO-220	1.05	.91	.70
AP1117Y15LDICT-ND	1.5V, 1A LDO Positive Regulator	SOT-89	1.13	.90	.68
AP1117Y15LDITR-ND	1.5V, 1A LDO Positive Regulator	SOT-89	890.00/2,500		
AP1117Y18LDICT-ND	1.8V, 1A LDO Positive Regulator	SOT-89	1.13	.90	.68
AP1117Y18LDITR-ND	1.8V, 1A LDO Positive Regulator	SOT-89	890.00/2,500		
AP1117Y25LDICT-ND	2.5V, 1A LDO Positive Regulator	SOT-89	1.13	.90	.68
AP1117Y25LDITR-ND	2.5V, 1A LDO Positive Regulator	SOT-89	890.00/2,500		
AP1117Y33LDICT-ND	3.3V, 1A LDO Positive Regulator	SOT-89	1.13	.90	.68
AP1117Y33LDITR-ND	3.3V, 1A LDO Positive Regulator	SOT-89	890.00/2,500		
AP1117Y50LDICT-ND	5V, 1A LDO Positive Regulator	SOT-89	1.13	.90	.68
AP1117Y50LDITR-ND	5V, 1A LDO Positive Regulator	SOT-89	890.00/2,500		
AP1117YLDICT-ND	Adj., 1A LDO Positive Regulator	SOT-89	1.13	.90	.68
AP1117YLDITR-ND	Adj., 1A LDO Positive Regulator	SOT-89	890.00/2,500		
AP1120SBLDICT-ND	3.3V/1.8V, 1A LDO Positive Regulator	SOP-8	1.43	1.24	.95
AP1120SBLDITR-ND	3.3V/1.8V, 1A LDO Positive Regulator	SOP-8	1262.50/2,500		
AP1120SLDICT-ND	3.3V/2.5V, 1A LDO Positive Regulator	SOP-8	1.43	1.24	.95
AP1120SLDITR-ND	3.3V/2.5V, 1A LDO Positive Regulator	SOP-8	1262.50/2,500		
AP1121ASLDICT-ND	3.3V/2.5V, 1A LDO Positive Regulator	SOP-8	1.43	1.24	.95
AP1121ASLDITR-ND	3.3V/2.5V, 1A LDO Positive Regulator	SOP-8	1262.50/2,500		
AP1121BSLDICT-ND	3.3V/1.8V, 1A LDO Positive Regulator	SOP-8	1.58	1.37	1.05
AP1121BSLDITR-ND	3.3V/1.8V, 1A LDO Positive Regulator	SOP-8	1397.50/2,500		
AP1122DLDICT-ND	1A LDO Positive Regulator	TO-252	1.20	1.04	.80
AP1122DLDITR-ND	1A LDO Positive Regulator	TO-252	1065.00/2,500		
AP1122EGDICT-ND	1A LDO Positive Regulator	SOT-223	1.05	.91	.70
AP1122EGDITR-ND	1A LDO Positive Regulator	SOT-223	930.00/2,500		
AP1184K515LDICT-ND	1.5V, 4A LDO Positive Regulator	TO-263-5	1.24	1.08	.83
AP1184K515LDITR-ND	1.5V, 4A LDO Positive Regulator	TO-263-5	438.40/800		
AP1184K518LDICT-ND	1.8V, 4A LDO Positive Regulator	TO-263-5	2.48	2.15	1.65
AP1184K518LDITR-ND	1.8V, 4A LDO Positive Regulator	TO-263-5	876.80/800		
AP1184K525LDICT-ND	2.5V, 4A LDO Positive Regulator	TO-263-5	2.37	1.98	1.66
AP1184K525LDITR-ND	2.5V, 4A LDO Positive Regulator	TO-263-5	948.00/800		
AP1184K533LDICT-ND	3.3V, 4A LDO Positive Regulator	TO-263-5	2.37	1.98	1.66
AP1184K533LDITR-ND	3.3V, 4A LDO Positive Regulator	TO-263-5	948.00/800		
AP1184K550LDICT-ND	5V, 4A LDO Positive Regulator	TO-263-5	2.37	1.98	1.66
AP1184K550LDITR-ND	5V, 4A LDO Positive Regulator	TO-263-5	948.00/800		
AP1184K5LDICT-ND	Adj., 4A LDO Positive Regulator	TO-263-5	2.37	1.98	1.66
AP1184K5LDITR-ND	Adj., 4A LDO Positive Regulator	TO-263-5	948.00/800		
AP1184T5-15L-UDI-ND	1.5V, 4A LDO Positive Regulator	TO-220-5	2.22	1.85	1.56
AP1184T518L-UDI-ND	1.8V, 4A LDO Positive Regulator	TO-220-5	2.22	1.85	1.56
AP1184T525L-UDI-ND	2.5V, 4A LDO Positive Regulator	TO-220-5	2.22	1.85	1.56
AP1184T533L-UDI-ND	3.3V, 4A LDO Positive Regulator	TO-220-5	2.78	2.41	1.85
AP1184T550L-UDI-ND	5V, 4A LDO Positive Regulator	TO-220-5	2.67	2.23	1.87
AP1184T5L-UDI-ND	Adj., 4A LDO Positive Regulator	TO-220-5	2.67	2.23	1.87
AP1186K515LDICT-ND	1.5V, 1.5A Ultra LDO Positive Regulator	TO-263-5	1.53	1.28	1.08
AP1186K515LDITR-ND	1.5V, 1.5A Ultra LDO Positive Regulator	TO-263-5	612.00/800		
AP1186K518LDICT-ND	1.8V, 1.5A Ultra LDO Positive Regulator	TO-263-5	2.67	2.23	1.87
AP1186K518LDITR-ND	1.8V, 1.5A Ultra LDO Positive Regulator	TO-263-5	1068.00/800		
AP1186K525LDICT-ND	2.5V, 1.5A Ultra LDO Positive Regulator	TO-263-5	1.83	1.53	1.29
AP1186K525LDITR-ND	2.5V, 1.5A Ultra LDO Positive Regulator	TO-263-5	732.00/800		
AP1186K533LDICT-ND	3.3V, 1.5A Ultra LDO Positive Regulator	TO-263-5	1.83	1.53	1.29
AP1186K533LDITR-ND	3.3V, 1.5A Ultra LDO Positive Regulator	TO-263-5	732.00/800		
AP1186K550LDICT-ND	5V, 1.5A Ultra LDO Positive Regulator	TO-263-5	1.83	1.53	1.29
AP1186K550LDITR-ND	5V, 1.5A Ultra LDO Positive Regulator	TO-263-5	732.00/800		
AP1186K5LDICT-ND	Adj., 1.5A Ultra LDO Positive Regulator	TO-263-5	1.83	1.53	1.29
AP1186K5LDITR-ND	Adj., 1.5A Ultra LDO Positive Regulator	TO-263-5	732.00/800		
AP1186T515L-UDI-ND	1.5V, 1.5A Ultra LDO Positive Regulator	TO-220-5	1.83	1.53	1.29
AP1186T518L-UDI-ND	1.8V, 1.5A Ultra LDO Positive Regulator	TO-220-5	1.83	1.53	1.29
AP1186T525L-UDI-ND	2.5V, 1.5A Ultra LDO Positive Regulator	TO-220-5	1.83	1.53	1.29
AP1186T533L-UDI-ND	3.3V, 1.5A Ultra LDO Positive Regulator	TO-220-5	1.83	1.53	1.29
AP1186T550L-UDI-ND	5V, 1.5A Ultra LDO Positive Regulator	TO-220-5	1.83	1.53	1.29
AP1186T5L-UDI-ND	Adj., 1.5A Ultra LDO Positive Regulator	TO-220-5	1.83	1.53	1.29
AP7165-FNGDICT-ND	600mA LDO Regulator with POK ***NEW!***	DFN-3030-10	1.01	.81	.61
AP7165-FNGDITR-ND	600mA LDO Regulator with POK ***NEW!***	DFN-3030-10	963.00/3,000		
AP7167-FNGDICT-ND	1.2A, LDO Regulator with POK ***NEW!***	DFN-3030-10	1.05	.91	.70
AP7167-FNGDITR-ND	1.2A, LDO Regulator with POK ***NEW!***	DFN-3030-10	1116.00/3,000		

POWER MANAGEMENT — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AP358NL-UDI-ND	Low Power Dual Op Amp	Dip-8	.85	.68	.51
AP358SGDICT-ND	Low Power Dual Op Amp	SOP-8	.65	.52	.39
AP358SGDITR-ND	Low Power Dual Op Amp	SOP-8	487.50/2,500		
AP393NL-UDI-ND	Low Power, Low Offset, Voltage Dual Comparator	Dip-8	.85	.68	.51
AP393SLDICT-ND	Low Power, Low Offset, Voltage Dual Comparator	SOP-8	.80	.64	.48
AP393SLDITR-ND	Low Power, Low Offset, Voltage Dual Comparator	SOP-8	600.00/2,500		
AP431ALDICT-ND	Adj. Precision Shunt Regulator 0.5%	SOP-8	1.61	1.40	1.08
AP431ALDITR-ND	Adj. Precision Shunt Regulator 0.5%	SOP-8	1430.00/2,500		
AP431AQLDICT-ND	Adj. Precision Shunt Regulator 0.5%	SOT-25	1.08	.87	.65
AP431AQLDITR-ND	Adj. Precision Shunt Regulator 0.5%	SOT-25	1026.00/3,000		
AP431ARGDICT-ND	Adj. Precision Shunt Regulator 0.5%	SC-59	.70	.56	.42
AP431ARGDITR-ND	Adj. Precision Shunt Regulator 0.5%	SC-59	630.00/3,000		
AP431ASAGDICT-ND	Adj. Precision Shunt Regulator 0.5%	SOT-23	.70	.56	.42
AP431ASAGDITR-ND	Adj. Precision Shunt Regulator 0.5%	SOT-23	630.00/3,000		
AP431AVL-ADICT-ND	Adj. Precision Shunt Regulator 0.5%	TO-92	.75	.60	.45
AP431AVL-ADITB-ND	Adj. Precision Shunt Regulator 0.5%	TO-92	450.00/2,000		
AP431AWGDICT-ND	Adj. Precision Shunt Regulator 0.5%	SC-59	.70	.56	.42
AP431AWGDITR-ND	Adj. Precision Shunt Regulator 0.5%	SC-59	630.00/3,000		
AP431AYLDICT-ND	Adj. Precision Shunt Regulator 0.5%	SOT-89	.68	.54	.41
AP431AYLDITR-ND	Adj. Precision Shunt Regulator 0.5%	SOT-89	535.00/2,500		
AP431LDICT-ND	Adj. Precision Shunt Regulator 1.0%	SOP-8	1.39	1.21	.93
AP431LDITR-ND	Adj. Precision Shunt Regulator 1.0%	SOP-8	1230.00/2,500		
AP431QLDICT-ND	Adj. Precision Shunt Regulator 1.0%	SOT-25	1.08	.87	.65
AP431QLDITR-ND	Adj. Precision Shunt Regulator 1.0%	SOT-25	1026.00/3,000		
AP431RGDICT-ND	Adj. Precision Shunt Regulator 1.0%	SC-59	.75	.60	.45

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AP431RGDITR-ND	Adj. Precision Shunt Regulator 1.0%	SC-59	675.00/3,000		
AP431SAGDICT-ND	Adj. Precision Shunt Regulator 1.0%	SOT-23	.70	.56	.42
AP431SAGDITR-ND	Adj. Precision Shunt Regulator 1.0%	SOT-23	630.00/3,000		
AP431VL-ADICT-ND	Adj. Precision Shunt Regulator 1.0%	TO-92	.60	.48	.36
AP431VL-ADITB-ND	Adj. Precision Shunt Regulator 1.0%	TO-92	384.00/2,000		
AP431WGDICT-ND	Adj. Precision Shunt Regulator 1.0%	SC-59	.70	.56	.42
AP431WGDITR-ND	Adj. Precision Shunt Regulator 1.0%	SC-59	630.00/3,000		
AP431YLDICT-ND	Adj. Precision Shunt Regulator 1.0%	SOT-89	.68	.54	.41
AP431YLDITR-ND	Adj. Precision Shunt Regulator 1.0%	SOT-89	507.50/2,500		
AP432ALDICT-ND	Adj. Precision Shunt Regulator 0.5%	SOP-8	1.28	1.11	.85
AP432ALDITR-ND	Adj. Precision Shunt Regulator 0.5%	SOP-8	1130.00/2,500		
AP432AQLDICT-ND	Adj. Precision Shunt Regulator 0.5%	SOT-25	.98	.85	.65
AP432AQLDITR-ND	Adj. Precision Shunt Regulator 0.5%	SOT-25	1038.00/3,000		
AP432ARGDICT-ND	Adj. Precision Shunt Regulator 0.5%	SC-59	1.08	.87	.65
AP432ARGDITR-ND	Adj. Precision Shunt Regulator 0.5%	SC-59	1026.00/3,000		
AP432ASAGDICT-ND	Adj. Precision Shunt Regulator 0.5%	SOT-23	.95	.76	.57
AP432ASAGDITR-ND	Adj. Precision Shunt Regulator 0.5%	SOT-23	897.00/3,000		
AP432AVL-ADICT-ND	Adj. Precision Shunt Regulator 0.5%	TO-92	.86	.69	.52
AP432AVL-ADITB-ND	Adj. Precision Shunt Regulator 0.5%	TO-92	590.00/2,000		
AP432AWGDICT-ND	Adj. Precision Shunt Regulator 0.5%	SC-59	1.08	.87	.65
AP432AWGDITR-ND	Adj. Precision Shunt Regulator 0.5%	SC-59	1026.00/3,000		
AP432AYLDICT-ND	Adj. Precision Shunt Regulator 0.5%	SOT-89	1.08	.87	.65
AP432AYLDITR-ND	Adj. Precision Shunt Regulator 0.5%	SOT-89	855.00/2,500		
AP432LDICT-ND	Adj. Precision Shunt Regulator 1.0%	SOP-8	1.28	1.11	.85
AP432LDITR-ND	Adj. Precision Shunt Regulator 1.0%	SOP-8	1130.00/2,500		
AP432QLDICT-ND	Adj. Precision Shunt Regulator 1.0%	SOT-25	1.13	.98	.75
AP432QLDITR-ND	Adj. Precision Shunt Regulator 1.0%	SOT-25	1197.00/3,000		
AP432RGDICT-ND	Adj. Precision Shunt Regulator 1.0%	SC-59	.85	.68	.51
AP432RGDITR-ND	Adj. Precision Shunt Regulator 1.0%	SC-59	765.00/3,000		
AP432SAGDICT-ND	Adj. Precision Shunt Regulator 1.0%	SOT-23	.95	.76	.57
AP432SAGDITR-ND	Adj. Precision Shunt Regulator 1.0%	SOT-23	897.00/3,000		
AP432VL-ADICT-ND	Adj. Precision Shunt Regulator 1.0%	TO-92	.99	.80	.60
AP432VL-ADITB-ND	Adj. Precision Shunt Regulator 1.0%	TO-92	682.00/2,000		
AP432WGDICT-ND	Adj. Precision Shunt Regulator 1.0%	SC-59	.85	.68	.51
AP432WGDITR-ND	Adj. Precision Shunt Regulator 1.0%	SC-59	765.00/3,000		
AP432YLDICT-ND	Adj. Precision Shunt Regulator 1.0%	SOT-89	1.08	.87	.65
AP432YLDITR-ND	Adj. Precision Shunt Regulator 1.0%	SOT-89	855.00/2,500		
AP1212HSLDICT-ND	Dual USB High-Side Power Switch	SOP-8	1.68	1.40	1.18
AP1212HSLDITR-ND	Dual USB High-Side Power Switch	SOP-8	1820.00/2,500		
AP1212LSLDICT-ND	Dual USB High-Side Power Switch	SOP-8	1.68	1.40	1.18
AP1212LSLDITR-ND	Dual USB High-Side Power Switch	SOP-8	1820.00/2,500		
AP1501-12K5LDICT-ND	12V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	4.13	3.58	2.75
AP1501-12K5LDITR-ND	12V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	1460.80/800		
AP1501-12T5L-UDI-ND	12V, 150kHz, 3A PWM Buck DC/DC Converter	TO-220-5	3.54	3.08	2.30
AP1501-33K5LDICT-ND	3.3V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	3.54	3.08	2.30
AP1501-33K5LDITR-ND	3.3V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	1467.20/800		
AP1501-33T5L-UDI-ND	3.3V, 150kHz, 3A PWM Buck DC/DC Converter	TO-220-5	3.54	3.08	2.30
AP1501-50K5LDICT-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	3.54	3.08	2.30
AP1501-50K5LDITR-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	1467.20/800		
AP1501-50T5L-UDI-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-220-5	3.54	3.08	2.30
AP1501A-12K5LDICT-ND	12V, 150kHz, 5A PWM Buck DC/DC Converter	TO-263-5	5.35	4.66	3.47
AP1501A-12K5LDITR-ND	12V, 150kHz, 5A PWM Buck DC/DC Converter	TO-263-5	2217.60/800		
AP1501A-12T5L-UDI-ND	12V, 150kHz, 5A PWM Buck DC/DC Converter	TO-220-5	6.37	5.55	4.13
AP1501A-33K5LDICT-ND	3.3V, 150kHz, 5A PWM Buck DC/DC Converter	TO-263-5	6.37	5.55	4.13
AP1501A-33K5LDITR-ND	3.3V, 150kHz, 5A PWM Buck DC/DC Converter	TO-263-5	2643.20/800		
AP1501A-33T5L-UDI-ND	3.3V, 150kHz, 5A PWM Buck DC/DC Converter	TO-220-5	6.37	5.55	4.13
AP1501A-50K5LDICT-ND	5V, 150kHz, 5A PWM Buck DC/DC Converter	TO-263-5	5.35	4.66	3.47
AP1501A-50K5LDITR-ND	5V, 150kHz, 5A PWM Buck DC/DC Converter	TO-263-5	2217.60/800		
AP1501A-50T5L-UDI-ND	5V, 150kHz, 5A PWM Buck DC/DC Converter	TO-220-5	6.37	5.55	4.13
AP1501A-K5LDICT-ND	Adj., 150kHz, 5A PWM Buck DC/DC Converter	TO-263-5	6.37	5.55	4.13
AP1501A-K5LDITR-ND	Adj., 150kHz, 5A PWM Buck DC/DC Converter	TO-263-5	2643.20/800		
AP1501A-T5L-UDI-ND	Adj., 150kHz, 5A PWM Buck DC/DC Converter	TO-220-5	6.37	5.55	4.13
AP1501K5LDICT-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	6.37	5.55	4.13
AP1501K5LDITR-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2643.20/800		
AP1501T5L-UDI-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-220-5	3.54	3.08	2.30
AP1506-12K5LDICT-ND	12V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2.64	2.20	1.85
AP1506-12K5LDITR-ND	12V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	1056.00/800		
AP1506-12T5L-UDI-ND	12V, 150kHz, 3A PWM Buck DC/DC Converter	TO-220-5	3.15	2.63	2.21
AP1506-33K5LDICT-ND	3.3V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2.64	2.20	1.85
AP1506-33K5LDITR-ND	3.3V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	1056.00/800		
AP1506-33T5L-UDI-ND	3.3V, 150kHz, 3A PWM Buck DC/DC Converter	TO-220-5	3.29	2.87	2.14
AP1506-50K5LDICT-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2.64	2.20	1.85
AP1506-50K5LDITR-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	1056.00/800		
AP1506-50K5L-UDI-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2.64	2.20	1.85
AP1506-50T5L-UDI-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-220-5	3.29	2.87	2.14
AP1506-K5LDICT-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2.38	2.07	1.54
AP1506-K5LDITR-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-263-5	985.60/800		
AP1506-T5L-UDI-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-220-5	2.67	2.23	1.87
AP1507-12D5LDICT-ND	12V, 150kHz, 3A PWM Buck DC/DC Converter	TO-252-5	2.67	2.23	1.87
AP1507-12D5LDITR-ND	12V, 150kHz, 3A PWM Buck DC/DC Converter	TO-252-5	2892.50/2,500		
AP1507-33D5LDICT-ND	3.3V, 150kHz, 3A PWM Buck DC/DC Converter	TO-252-5	2.67	2.23	1.87
AP1507-33D5LDITR-ND	3.3V, 150kHz, 3A PWM Buck DC/DC Converter	TO-252-5	2892.50/2,500		
AP1507-50D5LDICT-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-252-5	2.67	2.23	1.87
AP1507-50D5LDITR-ND	5V, 150kHz, 3A PWM Buck DC/DC Converter	TO-252-5	2892.50/2,500		
AP1507-D5LDICT-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-252-5	2.22	1.85	1.56
AP1507-D5LDITR-ND	Adj., 150kHz, 3A PWM Buck DC/DC Converter	TO-252-5	2405.00/2,500		
AP1509-12SGDICT-ND	12V, 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2.22	1.85	1.56
AP1509-12SGDITR-ND	12V, 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2405.00/2,500		
AP1509-33SGDICT-ND	3.3V, 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2.22	1.85	1.56
AP1509-33SGDITR-ND	3.3V, 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2405.00/2,500		
AP1509-50SGDICT-ND	5V, 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2.22	1.85	1.56
AP1509-50SGDITR-ND	5V, 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2405.00/2,500		
AP1509-SGDICT-ND	Adj., 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2.22	1.85	1.56
AP1509-SGDITR-ND	Adj., 150kHz, 2A PWM Buck DC/DC Converter	SOP-8	2405.00/2,500		
AP1510SLDICT-ND	Adj., PWM Control 3A Buck Converter	SOP-8	4.00	3.48	2.59
AP1510SLDITR-ND	Adj., PWM Control 3A Buck Converter	SOP-8	4735.00/2,500		
AP1511SLDICT-ND	Adj., PWM Control 5A Buck Converter	SOP-16	4.97	4.33	3.22
AP1511SLDITR-ND	Adj., PWM Control 5A Buck Converter	SOP-16	5887.50/2,500		
AP1512-12K5LDICT-ND	12V, 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	5.45	4.75	3.54
AP1512-12K5LDITR-ND	12V, 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	2262.40/800		
AP1512-12T5L-UDI-ND	12V, 50kHz, 2A PWM Buck DC/DC Converter	TO-220-5	7.66	7.00	5.53
AP1512-33K5LDICT-ND	3.3V, 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	5.45	4.75	3.54
AP1512-33K5LDITR-ND	3.3V, 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	2262.40/800		
AP1512-33T5L-UDI-ND	3.3V, 50kHz, 2A PWM Buck DC/DC Converter	TO-220-5	7.66	7.00	5.53
AP1512-50K5LDICT-ND	5V, 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	5.45	4.75	3.54
AP1512-50K5LDITR-ND	5V, 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	2262.40/800		
AP1512-50T5L-UDI-ND	5V, 50kHz, 2A PWM Buck DC/DC Converter	TO-220-5	7.66	7.00	5.53
AP1512-K5LDICT-ND	Adj., 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	4.65	4.25	3.36
AP1512-K5LDITR-ND	Adj., 50kHz, 2A PWM Buck DC/DC Converter	TO-263-5	2100.80/800		
AP1512-T5L-UDI-ND	Adj., 50kHz, 2A PWM Buck DC/DC Converter	TO-220-5	7.57	6.91	5.47
AP1512A-12K5LDICT-ND	12V, 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	5.45	4.75	3.54
AP1512A-12K5LDITR-ND	12V, 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2262.40/800		
AP1512A-33K5LDICT-ND	3.3V, 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	5.45	4.75	3.54
AP1512A-33K5LDITR-ND	3.3V, 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2262.40800		
AP1512A-33T5L-UDI-ND	3.3V, 50kHz, 3A PWM Buck DC/DC Converter	TO-220-5	7.66	7.00	5.53
AP1512A-50K5LDICT-ND	5V, 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	4.65	4.25	3.36
AP1512A-50K5LDITR-ND	5V, 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2100.80/800		
AP1512A-50T5L-UDI-ND	5V, 50kHz, 3A PWM Buck DC/DC Converter	TO-220-5	7.66	7.00	5.53
AP1512A-K5LDICT-ND	Adj., 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	5.45	4.75	3.54
AP1512A-K5LDITR-ND	Adj., 50kHz, 3A PWM Buck DC/DC Converter	TO-263-5	2262.40/800		
AP1512A-T5L-UDI-ND	Adj., 50kHz, 3A PWM Buck DC/DC Converter	TO-220-5	7.66	7.00	5.53
AP1513SLDICT-ND	Adj., PWM Control 2A Buck Converter	SOP-8	2.46	2.05	1.73
AP1513SLDITR-ND	Adj., PWM Control 2A Buck Converter	SOP-8	2665.00/2,500		
AP1520SLDICT-ND	Adj., PWM Control 2A Buck Converter	SOP-8	3.36	2.80	2.36
AP1520SLDITR-ND	Adj., PWM Control 2A Buck Converter	SOP-8	3640.00/2,500		
AP1603WLDICT-ND	Step-Up DC/DC Converter	SOT-26	2.97	2.48	2.08
AP1603WLDITR-ND	Step-Up DC/DC Converter	SOT-26	3861.00/3,000		
AP1604AWGDICT-ND	PWM/PFM Dual Mode Buck DC/DC Converter	SOT-25-5	2.58	2.15	1.81
AP1604AWGDITR-ND	PWM/PFM Dual Mode Buck DC/DC Converter	SOT-25-5	3354.00/3,000		
AP1605SLDICT-ND	PWM/PFM Dual Mode Buck Switching Regulator	SOP-8	2.97	2.48	2.08
AP1605SLDITR-ND	PWM/PFM Dual Mode Buck Switching Regulator	SOP-8	3217.50/2,500		
AP1609SGDICT-ND	PWM/PFM Dual Mode Step-Up DC/DC Converter	SOP-8	2.97	2.48	2.08
AP1609SGDITR-ND	PWM/PFM Dual Mode Step-Up DC/DC Converter	SOP-8	3217.50/2,500		
AP1701AWGDICT-ND	4.63V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1701AWGDITR-ND	4.63V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1701BWGDICT-ND	4.38V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1701BWGDITR-ND	4.38V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1701CWGDICT-ND	4V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1701CWGDITR-ND	4V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1701DWGDICT-ND	3.08V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1701DWGDITR-ND	3.08V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1701EWGDICT-ND	2.93V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1701EWGDITR-ND	2.93V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1701FWGDICT-ND	2.63V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1701FWGDITR-ND	2.63V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1701GWGDICT-ND	2.25V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1701GWGDITR-ND	2.25V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1702AWGDICT-ND	4.63V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1702AWGDITR-ND	4.63V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1702BWGDICT-ND	4.38V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1702BWGDITR-ND	4.38V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1702CWGDICT-ND	4V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1702CWGDITR-ND	4V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1702DWGDICT-ND	3.08V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1702DWGDITR-ND	3.08V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1702EWGDICT-ND	2.93V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1702EWGDITR-ND	2.93V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1702FWGDICT-ND	2.63V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1702FWGDITR-ND	2.63V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1702GWGDICT-ND	2.25V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1702GWGDITR-ND	2.25V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1703AWGDICT-ND	4.63V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1703AWGDITR-ND	4.63V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1703BWGDICT-ND	4.38V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1703BWGDITR-ND	4.38V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1703CWGDICT-ND	4V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1703CWGDITR-ND	4V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1703DWGDICT-ND	3.08V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1703DWGDITR-ND	3.08V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1703EWGDICT-ND	2.93V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1703EWGDITR-ND	2.93V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1703FWGDICT-ND	2.63V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1703FWGDITR-ND	2.63V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1703GWGDICT-ND	2.25V, Active-Low, MPU Reset Circuit	SC-59	.99	.80	.60
AP1703GWGDITR-ND	2.25V, Active-Low, MPU Reset Circuit	SC-59	942.00/3,000		
AP1704AWGDICT-ND	4.63V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1704AWGDITR-ND	4.63V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1704BWGDICT-ND	4.38V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1704BWGDITR-ND	4.38V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1704CWGDICT-ND	4V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1704CWGDITR-ND	4V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1704DWGDICT-ND	3.08V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1704DWGDITR-ND	3.08V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1704EWGDICT-ND	2.93V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1704EWGDITR-ND	2.93V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1704FWGDICT-ND	2.63V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1704FWGDITR-ND	2.63V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP1704GWGDICT-ND	2.25V, Active-High, MPU Reset Circuit	SC-59	.99	.80	.60
AP1704GWGDITR-ND	2.25V, Active-High, MPU Reset Circuit	SC-59	942.00/3,000		
AP2001SLDICT-ND	Mono 2-Channel PWM Controller	SOP-16	1.65	1.38	1.16
AP2001SLDITR-ND	Mono 2-Channel PWM Controller	SOP-16	1787.50/2,500		
AP2004SGDICT-ND	PWM Buck Controller	SOP-8	2.14	1.86	1.43
AP2004SGDITR-ND	PWM Buck Controller	SOP-8	1895.00/2,500		
AP2008SGDICT-ND	PWM Buck Controller	SOP-8	2.22	1.85	1.56
AP2008SGDITR-ND	PWM Buck Controller	SOP-8	2405.00/2,500		
AP2014ASLDICT-ND	Sync. PWM Controller	SOP-8	1.62	1.35	1.14
AP2014ASLDITR-ND	Sync. PWM Controller	SOP-8	1755.00/2,500		
AP2014SLDICT-ND	Sync. PWM Controller	SOP-8	1.62	1.35	1.14
AP2014SLDITR-ND	Sync. PWM Controller	SOP-8	1755.00/2,500		
AP2280-1FMGDICT-ND	Single Channel Controlled Load Switch ***NEW!***	DFN2018-6	.77	.62	.46
AP2280-1FMGDITR-ND	Single Channel Controlled Load Switch ***NEW!***	DFN2018-6	726.00/3,000		
AP2280-1WGDICT-ND	Single Channel Controlled Load Switch ***NEW!***	SOT-25	.72	.58	.44
AP2280-1WGDITR-ND	Single Channel Controlled Load Switch ***NEW!***	SOT-25	684.00/3,000		
AP2280-2FMGDICT-ND	Single Channel Controlled Load Switch ***NEW!***	DFN2018-6	.77	.62	.46
AP2280-2FMGDITR-ND	Single Channel Controlled Load Switch ***NEW!***	DFN2018-6	726.00/3,000		
AP2280-2WGDICT-ND	Single Channel Controlled Load Switch ***NEW!***	SOT-25	.72	.58	.44
AP2280-2WGDITR-ND	Single Channel Controlled Load Switch ***NEW!***	SOT-25	684.00/3,000		
AP34063N8L-UDI-ND	Universal DC/DC Converter	Dip-8	.99	.80	.60
AP34063S8LDICT-ND	Universal DC/DC Converter	SOP-8	.99	.80	.60
AP34063S8LDITR-ND	Universal DC/DC Converter	SOP-8	785.00/2,500		
APX321WGDICT-ND	Single R-R Low Voltage Op Amp ***NEW!***	SOT-25	.53	.42	.32
APX321WGDITR-ND	Single R-R Low Voltage Op Amp ***NEW!***	SOT-25	474.00/3,000		

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HALL-EFFECT SENSORS — *RoHS Compliant*

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
A1101LLHLT-T	620-1000-1-ND	Continuous-Time Switch	SOT-23W	1.40	1.12	.84
A1101LLHLT-T	620-1000-2-ND	Continuous-Time Switch	SOT-23W	2151.00/3,000		
A1101LUA-T	620-1001-ND	Continuous-Time Switch	3-SIP	1.40	1.12	.84
A1102LLHLT-T	620-1002-1-ND	Continuous-Time Switch	SOT-23W	1.40	1.12	.84
A1102LLHLT-T	620-1002-2-ND	Continuous-Time Switch	SOT-23W	2151.00/3,000		
A1103LLHLT-T	620-1004-1-ND	Continuous-Time Switch	SOT-23W	1.40	1.12	.84
A1103LLHLT-T	620-1004-2-ND	Continuous-Time Switch	SOT-23W	2151.00/3,000		
A1103LUA-T	620-1005-ND	Continuous-Time Switch	3-SIP	1.40	1.12	.84
A1171EEWLT-P	620-1232-1-ND	Ultra-Sensitive Hall Effect Switch ***NEW!***	6-DFN/MLP	.81	.68	.54
A1171EEWLT-P	620-1232-2-ND	Ultra-Sensitive Hall Effect Switch ***NEW!***	6-DFN/MLP	1053.00/3,000		
A1172ECGTR	620-1244-1-ND	Ultra-Sensitive Hall Effect Switch ***NEW!***	4-WLCSP	.87	.73	.58
A1172ECGTR	620-1244-2-ND	Ultra-Sensitive Hall Effect Switch ***NEW!***	4-WLCSP	1508.00/4,000		
A1202LLHLT-T	620-1009-1-ND	Continuous-Time Bipolar Switch	SOT-23	1.40	1.12	.84
A1202LLHLT-T	620-1009-2-ND	Continuous-Time Bipolar Switch	SOT-23	2151.00/3,000		
A1203LLHLT-T	620-1011-1-ND	Continuous-Time Bipolar Switch	SOT-23	1.44	1.20	.96
A1203LLHLT-T	620-1011-2-ND	Continuous-Time Bipolar Switch	SOT-23	2151.00/3,000		
A1203LUA-T	620-1012-ND	Continuous-Time Bipolar Switch	3-SIP	1.44	1.20	.96
A1205ELHLT-T	620-1181-1-ND	Continuous-Time Bipolar Switch	SOT-23W	1.47	1.23	.98
A1205ELHLT-T	620-1181-2-ND	Continuous-Time Bipolar Switch	SOT-23W	1911.00/3,000		
A1210LLHLT-T	620-1013-1-ND	Continuous-Time Latch	SOT-23W	1.40	1.12	.84
A1210LLHLT-T	620-1013-2-ND	Continuous-Time Latch	SOT-23W	2151.00/3,000		
A1210LUA-T	620-1014-ND	Continuous-Time Latch	3-SIP	1.40	1.12	.84
A1211LLHLT-T	620-1015-1-ND	Continuous-Time Latch	SOT-23W	1.35	1.13	.90
A1211LLHLT-T	620-1015-2-ND	Continuous-Time Latch	SOT-23W	1755.00/3,000		
A1211LUA-T	620-1016-ND	Continuous-Time Latch	3-SIP	1.35	1.13	.90
A1212LLHLT-T	620-1017-1-ND	Continuous-Time Latch	SOT-23W	1.48	1.18	.89
A1212LLHLT-T	620-1017-2-ND	Continuous-Time Latch	SOT-23W	2265.00/3,000		
A1212LUA-T	620-1018-ND	Continuous-Time Latch	3-SIP	1.48	1.18	.89
A1301KLHLT-T	620-1019-1-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	SOT-23W	1.26	1.05	.84
A1301KLHLT-T	620-1019-2-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	SOT-23W	1638.00/3,000		
A1301KUA-T	620-1020-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	3-SIP	1.26	1.05	.84
A1302KLHLT-T	620-1021-1-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	SOT-23W	1.26	1.05	.84
A1302KLHLT-T	620-1021-2-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	SOT-23W	1638.00/3,000		
A1302KUA-T	620-1022-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	3-SIP	1.26	1.05	.84
A1321LLHLT-T	620-1023-1-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT-23W	1.45	1.16	.87
A1321LLHLT-T	620-1023-2-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT-23W	2226.00/3,000		
A1321LUA-T	620-1024-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	3-SIP	1.45	1.16	.87
A1322LLHLT-T	620-1025-1-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT-23W	1.45	1.16	.87
A1322LLHLT-T	620-1025-2-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT-23W	2226.00/3,000		
A1322LUA-T	620-1026-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	3-SIP	1.45	1.16	.87
A1323LLHLT-T	620-1027-1-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT-23W	1.45	1.16	.87
A1323LLHLT-T	620-1027-2-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT-23W	2226.00/3,000		
A1323LUA-T	620-1028-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	3-SIP	1.45	1.16	.87
A1351LKTTN-T	620-1228-1-ND	High Precision Linear Hall Effect Sensor ***NEW!***	4-SIP	2.77	2.22	1.73
A1351LKTTN-T	620-1228-2-ND	High Precision Linear Hall Effect Sensor ***NEW!***	4-SIP	6199.20/4,000		
A1360LKTTN-T	620-1233-1-ND	Low Noise Hall Effect Sensor ***NEW!***	4-SIP	2.57	2.06	1.60
A1360LKTTN-T	620-1233-2-ND	Low Noise Hall Effect Sensor ***NEW!***	4-SIP	5745.60/4,000		
A1361LKTTN-T	620-1234-1-ND	Low Noise Hall Effect Sensor ***NEW!***	4-SIP	2.57	2.06	1.60
A1361LKTTN-T	620-1234-2-ND	Low Noise Hall Effect Sensor ***NEW!***	4-SIP	5745.60/4,000		
A1362LKTTN-T	620-1235-1-ND	Low Noise Hall Effect Sensor ***NEW!***	4-SIP	2.57	2.06	1.60
A1362LKTTN-T	620-1235-2-ND	Low Noise Hall Effect Sensor ***NEW!***	4-SIP	5745.60/4,000		
A1374LKB-T	620-1030-ND	High Precision, Output Pin Programmable Linear Hall Effect Sensors	3-SIP	2.15	1.72	1.29
A1381LLHLT-T	620-1196-1-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	2.48	1.98	1.49
A1381LLHLT-T	620-1196-2-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	3801.00/3,000		
A1382LLHLT-T	620-1197-1-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	2.48	1.98	1.49
A1382LLHLT-T	620-1197-2-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	3801.00/3,000		
A1383LLHLT-T	620-1198-1-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	2.48	1.98	1.49
A1383LLHLT-T	620-1198-2-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	3801.00/3,000		
A1384LLHLT-T	620-1199-1-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	2.48	1.98	1.49
A1384LLHLT-T	620-1199-2-ND	Programmable Linear Hall Effect Sensor with Analog Output	SOT-23W	3801.00/3,000		
A1391SEHLT-T	620-1031-1-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1.30	1.04	.78
A1391SEHLT-T	620-1031-2-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1998.00/3,000		
A1392SEHLT-T	620-1032-1-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1.30	1.04	.78
A1392SEHLT-T	620-1032-2-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1998.00/3,000		
A1393SEHLT-T	620-1172-1-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1.30	1.04	.78
A1393SEHLT-T	620-1172-2-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1998.00/3,000		
A1395SEHLT-T	620-1173-1-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1.30	1.04	.78
A1395SEHLT-T	620-1173-2-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1998.00/3,000		
A3211EEHLT-T	620-1034-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	.93	.78	.62
A3211EEHLT-T	620-1034-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	1209.00/3,000		
A3211EELLT-T	620-1035-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	.87	.73	.58
A3211EELLT-T	620-1035-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	1131.00/3,000		
A3211ELHLT-T	620-1036-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	.96	.80	.64
A3211ELHLT-T	620-1036-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1248.00/3,000		
A3212EEHLT-T	620-1037-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	.78	.65	.52
A3212EEHLT-T	620-1037-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	1014.00/3,000		
A3212EELLT-T	620-1038-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	.96	.72	.54
A3212EELLT-T	620-1038-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	2x2-MLPD	936.00/3,000		
A3212ELHLT-T	620-1039-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	.78	.65	.52
A3212ELHLT-T	620-1039-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1014.00/3,000		
A3212EUA-T	620-1040-ND	Micropower, Ultra-Sensitive Hall Effect Switch	3-SIP	.93	.78	.62
A3213ELHLT-T	620-1041-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1.05	.88	.70
A3213ELHLT-T	620-1041-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1365.00/3,000		
A3213LLHLT-T	620-1042-1-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1.25	1.00	.75
A3213LLHLT-T	620-1042-2-ND	Micropower, Ultra-Sensitive Hall Effect Switch	SOT-23W	1920.00/3,000		
A3213LUA-T	620-1043-ND	Micropower, Ultra-Sensitive Hall Effect Switch	3-SIP	1.25	1.00	.75
A3230LLHLT-T	620-1044-1-ND	Chopper Stabilized Hall Effect Biploar Switch	SOT-23W	1.23	1.03	.82
A3230LLHLT-T	620-1044-2-ND	Chopper Stabilized Hall Effect Biploar Switch	SOT-23W	1599.00/3,000		
A3230LUA-T	620-1045-ND	Chopper Stabilized Hall Effect Biploar Switch	3-SIP	1.23	1.03	.82
A3240LLHLT-T	620-1046-1-ND	Chopper Stabilized, Precision Hall Effect Switch	SOT-23W	1.26	1.05	.84
A3240LLHLT-T	620-1046-2-ND	Chopper Stabilized, Precision Hall Effect Switch	SOT-23W	1638.00/3,000		
A3240LUA-T	620-1047-ND	Chopper Stabilized, Precision Hall Effect Switch	3-SIP	1.26	1.05	.84
A3241LLHLT-T	620-1048-1-ND	Chopper Stabilized Unipolar Hall Effect Switch	SOT-23W	1.20	1.00	.80
A3241LLHLT-T	620-1048-2-ND	Chopper Stabilized Unipolar Hall Effect Switch	SOT-23W	1560.00/3,000		
A3242LLHLT-T	620-1049-1-ND	Chopper Stabilized Unipolar Hall Effect Switch	SOT-23W	1.20	1.00	.80
A3242LLHLT-T	620-1049-2-ND	Chopper Stabilized Unipolar Hall Effect Switch	SOT-23W	1560.00/3,000		
A3242LUA-T	620-1050-ND	Chopper Stabilized Unipolar Hall Effect Switch	3-SIP	1.20	1.00	.80
A3245LUA-T	620-1213-ND	Chopper Stabilized, Omnipolar Hall Effect Switch	3-SIP	1.26	1.05	.84
A3280LLHLT-T	620-1051-1-ND	Chopper Stabilized, Precision Hall Effect Latch	SOT-23W	1.26	1.05	.84
A3280LLHLT-T	620-1051-2-ND	Chopper Stabilized, Precision Hall Effect Latch	SOT-23W	1638.00/3,000		
A3281LLHLT-T	620-1053-1-ND	Chopper Stabilized, Precision Hall Effect Latch	SOT-23W	1.26	1.05	.84
A3281LLHLT-T	620-1053-2-ND	Chopper Stabilized, Precision Hall Effect Latch	SOT-23W	1638.00/3,000		
A3281LUA-T	620-1054-ND	Chopper Stabilized, Precision Hall Effect Latch	4-SIP	1.26	1.05	.84
A3282LLHLT-T	620-1055-1-ND	Chopper Stabilized Hall Effect Latch	SOT-23W	1.20	1.00	.80
A3282LLHLT-T	620-1055-2-ND	Chopper Stabilized Hall Effect Latch	SOT-23W	1560.00/3,000		
A3282LUA-T	620-1056-ND	Chopper Stabilized Hall Effect Latch	3-SIP	1.20	1.00	.80
A3290KLHLT-T	620-1240-1-ND	Chopper Stabilized Hall Effect Latch ***NEW!***	SOT-23	.96	.80	.64
A3290KLHLT-T	620-1240-2-ND	Chopper Stabilized Hall Effect Latch ***NEW!***	SOT-23	1248.00/3,000		
A3291KLHLT-T	620-1241-1-ND	Chopper Stabilized Hall Effect Latch ***NEW!***	SOT-23	.96	.80	.64
A3291KLHLT-T	620-1241-2-ND	Chopper Stabilized Hall Effect Latch ***NEW!***	SOT-23	1248.00/3,000		
A3340LLHLT-T	620-1211-1-ND	Chopper Stabilized, Precision Hall Effect Switch	SOT-23W	1.26	1.05	.84
A3340LLHLT-T	620-1211-2-ND	Chopper Stabilized, Precision Hall Effect Switch	SOT-23W	1638.00/3,000		
A3340LUA-T	620-1212-ND	Chopper Stabilized, Precision Hall Effect Switch	3-SIP	1.26	1.05	.84
A3423EK-T	620-1206-ND	Dual Channel Hall Effect Direction Detection Sensor	4-SIP	2.35	1.88	1.41
A3423LK-T	620-1207-ND	Dual Channel Hall Effect Direction Detection Sensor	4-SIP	2.25	1.80	1.40
ACS712ELCTR-05B-T	620-1189-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	2.90	2.33	1.81
ACS712ELCTR-05B-T	620-1189-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4875.00/3,000		
ACS712ELCTR-20A-T	620-1190-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	2.90	2.33	1.81
ACS712ELCTR-20A-T	620-1190-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4875.00/3,000		
ACS712ELCTR-30A-T	620-1191-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	2.90	2.33	1.81

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HALL-EFFECT SENSORS *(Continued)* — *RoHS Compliant*

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ACS712ELCTR-30A-T	620-1191-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4875.00/3,000		
ACS713ELCTR-20A-T	620-1192-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	2.90	2.33	1.81
ACS713ELCTR-20A-T	620-1192-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4875.00/3,000		
ACS713ELCTR-30A-T	620-1193-1-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	2.90	2.33	1.81
ACS713ELCTR-30A-T	620-1193-2-ND	Hall Effect-Based Linear Current Sensor	8-SOIC	4875.00/3,000		
ACS714LLCTR-05B-T	620-1225-1-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	8-SOIC	3.38	2.70	2.03
ACS714LLCTR-05B-T	620-1225-2-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	8-SOIC	5184.00/3,000		
ACS714LLCTR-20A-T	620-1226-1-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	8-SOIC	3.38	2.70	2.03
ACS714LLCTR-20A-T	620-1226-2-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	8-SOIC	5184.00/3,000		
ACS714LLCTR-30A-T	620-1229-1-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	8-SOIC	3.04	2.43	1.89
ACS714LLCTR-30A-T	620-1229-2-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	8-SOIC	5103.00/3,000		
ACS715LLCTR-20A-T	620-1230-1-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	8-SOIC	3.04	2.43	1.89
ACS715LLCTR-20A-T	620-1230-2-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	8-SOIC	5103.00/3,000		
ACS715LLCTR-30A-T	620-1231-1-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	8-SOIC	3.04	2.43	1.89
ACS715LLCTR-30A-T	620-1231-2-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	8-SOIC	5103.00/3,000		
ACS756SCA-050B-PFF-T	620-1237-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	5-PIN	5.18	4.14	3.22
ACS756SCA-100B-PFF-T	620-1238-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	5-PIN	5.18	4.14	3.22
ACS756KCA-050B-PFF-T	620-1239-ND	Hall Effect-Based Linear Current Sensor ***NEW!***	5-PIN	5.08	4.07	3.43
ACS760ELFTR-20B-T	620-1209-1-ND	12V High-Side Hot-Swap Hall Effect Current Monitor	24-QSOP	6.42	5.14	4.34
ACS760ELFTR-20B-T	620-1209-2-ND	12V High-Side Hot-Swap Hall Effect Current Monitor	24-QSOP	9950.00/2,500		

MOTOR DRIVERS — *RoHS Compliant*

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
A1441EELLT-T	620-1167-1-ND	Low Voltage Full-Bridge Brushless DC Motor Driver	6-MLP	1.41	1.18	.94
A1441EELLT-T	620-1167-2-ND	Low Voltage Full-Bridge Brushless DC Motor Driver	6-MLP	1833.00/3,000		
A1442EEWLT-P	620-1210-1-ND	Low Voltage Full-Bridge Brushless DC Motor Driver	6-MLP	1.23	1.03	.82
A1442EEWLT-P	620-1210-2-ND	Low Voltage Full-Bridge Brushless DC Motor Driver	6-MLP	1599.00/3,000		
A1444EEWLT-P	620-1242-1-ND	Low Voltage Full-Bridge Brushless DC Motor Driver ***NEW!***	6-MLP	1.32	1.10	.88
A1444EEWLT-P	620-1242-2-ND	Low Voltage Full-Bridge Brushless DC Motor Driver ***NEW!***	6-MLP	1716.00/3,000		
A1445EEWLT-P	620-1243-1-ND	Low Voltage Full-Bridge Brushless DC Motor Driver ***NEW!***	6-MLP	1.32	1.10	.88
A1445EEWLT-P	620-1243-2-ND	Low Voltage Full-Bridge Brushless DC Motor Driver ***NEW!***	6-MLP	1716.00/3,000		
A2919SLBTR-T	620-1125-1-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	4.46	3.57	2.78
A2919SLBTR-T	620-1125-2-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	2525.00/1,000		
A2982ELWTR-T	620-1126-1-ND	8-Channel Source Driver	20-SOIC	2.03	1.62	1.22
A2982ELWTR-T	620-1126-2-ND	8-Channel Source Driver	20-SOIC	1053.00/1,000		
A2982SLWTR-T	620-1127-1-ND	8-Channel Source Driver	20-SOIC	1.98	1.58	1.19
A2982SLWTR-T	620-1127-2-ND	8-Channel Source Driver	20-SOIC	1027.00/1,000		
A3903EEETR-T	620-1205-1-ND	Low Voltage DC Motor Driver	8-DFN	1.02	.85	.68
A3903EEETR-T	620-1205-2-ND	Low Voltage DC Motor Driver	8-DFN	1326.00/3,000		
A3904EEWTR-P	620-1216-1-ND	Low Voltage Voice Coil Motor Driver	6-DFN	.96	.80	.64
A3904EEWTR-P	620-1216-2-ND	Low Voltage Voice Coil Motor Driver	6-DFN	1248.00/3,000		
A3932SLD-T	620-1220-5-ND	3-Phase Power MOSFET Controller	38-TSSOP	3.38	2.70	2.10
A3936SED-T	620-1057-ND	DMOS 3-Phase PWM Motor Driver	44-PLCC	6.18	4.95	4.18
A3936SEDTR-T	620-1129-1-ND	DMOS 3-Phase PWM Motor Driver	44-PLCC	6.18	4.95	4.18
A3936SEDTR-T	620-1129-2-ND	DMOS 3-Phase PWM Motor Driver	44-PLCC	1807.65/450		
A3938SLDTR-T	620-1130-1-ND	3-Phase Power MOSFET Controller	38-TSSOP	5.94	4.76	4.01
A3938SLDTR-T	620-1130-2-ND	3-Phase Power MOSFET Controller	38-TSSOP	14732.00/4,000		
A3941KLPTR-T	620-1236-1-ND	Automotive Full-Bridge MOSFET Driver ***NEW!***	28-TSSOP	3.31	2.65	2.06
A3941KLPTR-T	620-1236-2-ND	Automotive Full-Bridge MOSFET Driver ***NEW!***	28-TSSOP	7408.80/4,000		
A3949SLB-T	620-1062-ND	DMOS Full-Bridge Motor Driver	16-SOIC	3.29	2.63	2.05
A3949SLBTR-T	620-1131-1-ND	DMOS Full-Bridge Motor Driver	16-SOIC	3.29	2.63	2.05
A3949SLBTR-T	620-1131-2-ND	DMOS Full-Bridge Motor Driver	16-SOIC	1862.00/1,000		
A3949SLP-T	620-1063-ND	DMOS Full-Bridge Motor Driver	16-TSSOP	3.49	2.79	2.17
A3949SLPTR-T	620-1132-1-ND	DMOS Full-Bridge Motor Driver	16-TSSOP	3.49	2.79	2.17
A3949SLPTR-T	620-1132-2-ND	DMOS Full-Bridge Motor Driver	16-TSSOP	7812.00/4,000		
A3950SLP-T	620-1064-ND	DMOS Full-Bridge Motor Driver	16-TSSOP	2.90	2.33	1.81
A3953SB-T	620-1065-ND	Full-Bridge PWM Motor Driver	16-Dip	3.02	2.42	1.88
A3953SLB-T	620-1066-ND	Full-Bridge PWM Motor Driver	16-SOIC	3.02	2.42	1.88
A3953SLBTR-T	620-1133-1-ND	Full-Bridge PWM Motor Driver	16-SOIC	3.02	2.42	1.88
A3953SLBTR-T	620-1133-2-ND	Full-Bridge PWM Motor Driver	16-SOIC	1709.00/1,000		
A3955SB-T	620-1067-ND	Full-Bridge PWM Microstepping Motor Driver	16-Dip	2.88	2.31	1.80
A3955SLB-T	620-1068-ND	Full-Bridge PWM Microstepping Motor Driver	16-SOIC	2.88	2.31	1.80
A3955SLBTR-T	620-1134-1-ND	Full-Bridge PWM Motor Driver	16-SOIC	2.88	2.31	1.80
A3955SLBTR-T	620-1134-2-ND	Full-Bridge PWM Motor Driver	16-SOIC	1632.00/1,000		
A3958SLBTR-T	620-1135-1-ND	DMOS Full-Bridge PWM Motor Driver	24-SOIC	4.75	3.80	2.96
A3958SLBTR-T	620-1135-2-ND	DMOS Full-Bridge PWM Motor Driver	24-SOIC	2690.00/1,000		
A3959SB-T	620-1069-ND	DMOS Full-Bridge PWM Motor Driver	24-Dip	4.75	3.80	2.96
A3959SLB-T	620-1070-ND	DMOS Full-Bridge PWM Motor Driver	24-SOIC	4.75	3.80	2.96
A3959SLBTR-T	620-1136-1-ND	DMOS Full-Bridge PWM Motor Driver	24-SOIC	4.75	3.80	2.96
A3959SLBTR-T	620-1136-2-ND	DMOS Full-Bridge PWM Motor Driver	24-SOIC	2690.00/1,000		
A3959SLP-T	620-1071-ND	DMOS Full-Bridge PWM Motor Driver	28-TSSOP	4.86	3.89	3.03
A3959SLPTR-T	620-1137-1-ND	DMOS Full-Bridge PWM Motor Driver	28-TSSOP	4.86	3.89	3.03
A3959SLPTR-T	620-1137-2-ND	DMOS Full-Bridge PWM Motor Driver	28-TSSOP	10888.00/4,000		
A3964SLBTR-T	620-1138-1-ND	Dual Full-Bridge PWM Motor Driver	20-SOIC	4.46	3.57	2.78
A3964SLBTR-T	620-1138-2-ND	Dual Full-Bridge PWM Motor Driver	20-SOIC	2525.00/1,000		
A3966SLB-T	620-1072-ND	Dual Full-Bridge PWM Motor Driver	16-SOIC	2.36	1.89	1.47
A3966SLBTR-T	620-1139-1-ND	Dual Full-Bridge PWM Motor Driver	16-SOIC	2.36	1.89	1.47
A3966SLBTR-T	620-1139-2-ND	Dual Full-Bridge PWM Motor Driver	16-SOIC	1339.00/1,000		
A3967SLB-T	620-1073-ND	Microstepping Driver with Translator	24-SOIC	2.75	2.20	1.71
A3967SLBTR-T	620-1140-1-ND	Microstepping Driver with Translator	24-SOIC	2.75	2.20	1.71
A3967SLBTR-T	620-1140-2-ND	Microstepping Driver with Translator	24-SOIC	1556.00/1,000		
A3968SLBTR-T	620-1141-1-ND	Dual Full-Bridge PWM Motor Driver	16-SOIC	3.13	2.51	1.95
A3968SLBTR-T	620-1141-2-ND	Dual Full-Bridge PWM Motor Driver	16-SOIC	1772.00/1,000		
A3969SETTR-T	620-1175-1-ND	Dual Full-Bridge PWM Motor Driver	28-QFN	2.33	1.86	1.40
A3969SETTR-T	620-1175-2-ND	Dual Full-Bridge PWM Motor Driver	28-QFN	1813.50/1,500		
A3973SB-T	620-1074-ND	Dual DMOS Full-Bridge Microstepping PWM Motor Driver	24-Dip	5.56	4.45	3.46
A3973SLB-T	620-1075-ND	Dual DMOS Full-Bridge Microstepping PWM Motor Driver	24-SOIC	5.56	4.45	3.46
A3973SLBTR-T	620-1142-1-ND	Dual DMOS Full-Bridge PWM Motor Driver	24-SOIC	5.56	4.45	3.46
A3973SLBTR-T	620-1142-2-ND	Dual DMOS Full-Bridge PWM Motor Driver	24-SOIC	3149.00/1,000		
A3974SEDTR-T	620-1143-1-ND	Dual DMOS Full-Bridge PWM Motor Driver	44-PLCC	6.76	5.41	4.57
A3974SEDTR-T	620-1143-2-ND	Dual DMOS Full-Bridge PWM Motor Driver	44-PLCC	1977.30/450		
A3977KED-T	620-1076-ND	Microstepping DMOS Driver with Translator	44-PLCC	6.14	4.92	4.15
A3977KEDTR-T	620-1144-1-ND	Microstepping DMOS Driver with Translator	44-PLCC	6.14	4.92	4.15
A3977KEDTR-T	620-1144-2-ND	Microstepping DMOS Driver with Translator	44-PLCC	1795.95/450		
A3977KLP-T	620-1077-ND	Microstepping DMOS Driver with Translator	28-TSSOP	6.14	4.92	4.15
A3977KLPTR-T	620-1145-1-ND	Microstepping DMOS Driver with Translator	28-TSSOP	6.14	4.92	4.15
A3977KLPTR-T	620-1145-2-ND	Microstepping DMOS Driver with Translator	28-TSSOP	15228.00/4,000		
A3977SED-T	620-1078-ND	Microstepping DMOS Driver with Translator	44-PLCC	5.54	4.44	3.74
A3977SEDTR-T	620-1146-1-ND	Microstepping DMOS Driver with Translator	44-PLCC	5.54	4.44	3.74
A3977SEDTR-T	620-1146-2-ND	Microstepping DMOS Driver with Translator	44-PLCC	1620.45/450		
A3977SLP-T	620-1079-ND	Microstepping DMOS Driver with Translator	28-TSSOP	5.54	4.44	3.74
A3977SLPTR-T	620-1147-1-ND	Microstepping DMOS Driver with Translator	28-TSSOP	5.54	4.44	3.74
A3977SLPTR-T	620-1147-2-ND	Microstepping DMOS Driver with Translator	28-TSSOP	13740.00/4,000		
A3979SLP-T	620-1080-ND	Microstepping DMOS Driver with Translator	28-TSSOP	5.54	4.44	3.74
A3979SLPTR-T	620-1148-1-ND	Microstepping DMOS Driver with Translator	28-TSSOP	5.54	4.44	3.74
A3979SLPTR-T	620-1148-2-ND	Microstepping DMOS Driver with Translator	28-TSSOP	13740.00/4,000		
A3980KLP-T	620-1081-ND	Automotive DMOS Microstepping Driver with Translator	28-TSSOP	4.84	3.87	3.01
A3982SLB-T	620-1082-ND	DMOS Stepper Motor Driver with Translator	24-SOIC	3.74	2.99	2.33
A3983SLP-T	620-1083-ND	DMOS Microstepping Driver with Translator	24-TSSOP	4.03	3.23	2.51
A3983SLPTR-T	620-1149-1-ND	DMOS Microstepping Driver with Translator	24-TSSOP	4.03	3.23	2.51
A3983SLPTR-T	620-1149-2-ND	DMOS Microstepping Driver with Translator	24-TSSOP	9020.00/4,000		
A3984SLP-T	620-1084-ND	DMOS Microstepping Driver with Translator	24-TSSOP	4.03	3.23	2.51
A3984SLPTR-T	620-1150-1-ND	DMOS Microstepping Driver with Translator	24-TSSOP	4.03	3.23	2.51
A3984SLPTR-T	620-1150-2-ND	DMOS Microstepping Driver with Translator	24-TSSOP	9020.00/4,000		
A3985SLDTR-T	620-1180-1-ND	Digitally Programmable Dual Full-Bridge MOSFET Driver	38-TSSOP	5.86	4.69	3.96
A3985SLDTR-T	620-1180-2-ND	Digitally Programmable Dual Full-Bridge MOSFET Driver	38-TSSOP	14532.00/4,000		
A3987SLPTR-T	620-1171-1-ND	DMOS Microstepping Driver with Translator	24-TSSOP	4.48	3.59	2.79
A3987SLPTR-T	620-1171-2-ND	DMOS Microstepping Driver with Translator	24-TSSOP	10028.00/4,000		
A3988SEVTR-T	620-1176-1-ND	Quad DMOS Full-Bridge PWM Motor Driver	36-QFN	3.80	3.05	2.37
A3988SEVTR-T	620-1176-2-ND	Quad DMOS Full-Bridge PWM Motor Driver	36-QFN	3232.50/1,500		
A3989SEVTR-T	620-1183-1-ND	Bipolar Stepper and High Current DC Motor Driver	36-QFN	3.80	3.05	2.37
A3989SEVTR-T	620-1183-2-ND	Bipolar Stepper and High Current DC Motor Driver	36-QFN	3232.50/1,500		
A3992SLPTR-T	620-1170-1-ND	Dual DMOS Full-Bridge Microstepping PWM Motor Driver	24-TSSOP	4.48	3.59	2.79
A3992SLPTR-T	620-1170-2-ND	Dual DMOS Full-Bridge Microstepping PWM Motor Driver	24-TSSOP	10028.00/4,000		
A3995SEVTR-T	620-1184-1-ND	Dual DMOS Full-Bridge PWM Motor Driver	36-QFN	3.80	3.05	2.37
A3995SEVTR-T	620-1184-2-ND	Dual DMOS Full-Bridge PWM Motor Driver	36-QFN	3232.50/1,500		
A4930METTR-T	620-1227-1-ND	Single Phase Fan Predriver ***NEW!***	28-QFN	1.47	1.18	.89

(Continued)

MOTOR DRIVERS *(Continued)*
RoHS Compliant

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
A4930METTR-T	620-1227-2-ND	Single Phase Fan Predriver ***NEW!***	28-QFN	1150.50/1,500		
A4931METTR-T	620-1214-1-ND	3 Phase DC Motor Predriver	28-QFN	1.90	1.52	1.14
A4931METTR-T	620-1214-2-ND	3 Phase DC Motor Predriver	28-QFN	1482.00/1,500		
A4983SETTR-T	620-1194-1-ND	DMOS Microstepping Driver	28-QFN	3.20	2.56	1.99
A4983SETTR-T	620-1194-2-ND	DMOS Microstepping Driver	28-QFN	2716.50/1,500		
A8504EECTR-T	620-1215-1-ND	WLED/RGB Backlight Driver	26-QFN	2.48	1.98	1.54
A8504EECTR-T	620-1215-2-ND	WLED/RGB Backlight Driver	26-QFN	2104.50/1,500		
A8904SLB-T	620-1103-ND	3-Phase Brushless DC Motor Controller/Driver with Back-EMF Sensing	24-SOIC	8.46	7.62	6.76
A8904SLPTR-T	620-1154-1-ND	3-Phase Brushless DC Motor Controller/Driver with Back-EMF Sensing	28-TSSOP	8.65	7.79	6.91
A8904SLPTR-T	620-1154-2-ND	3-Phase Brushless DC Motor Controller/Driver with Back-EMF Sensing	28-TSSOP	25224.00/4,000		
L6219DSTR-T	620-1117-1-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	3.53	2.83	2.20
L6219DSTR-T	620-1117-2-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	2002.00/1,000		
UDN2916EBTR-T	620-1155-1-ND	Dual Full-Bridge PWM Motor Driver	44-PLCC	5.47	4.38	3.41
UDN2916EBTR-T	620-1155-2-ND	Dual Full-Bridge PWM Motor Driver	44-PLCC	1454.40/450		
UDN2916LBTR-T	620-1156-1-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	3.53	2.83	2.20
UDN2916LBTR-T	620-1156-2-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	2002.00/1,000		
UDN2916B-T	620-1118-ND	Dual Full-Bridge PWM Motor Driver	24-Dip	3.53	2.83	2.20
UDN2916LB-T	620-1119-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	3.53	2.83	2.20
UDQ2916LBTR-T	620-1158-1-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	3.89	3.12	2.43
UDQ2916LBTR-T	620-1158-2-ND	Dual Full-Bridge PWM Motor Driver	24-SOIC	2206.00/1,000		

POWER MANAGEMENT — *RoHS Compliant*

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
A2550KLPTR-T	620-1182-1-ND	Automotive Relay Driver with 5V Regulator	16-TSSOP	1.90	1.52	1.14
A2550KLPTR-T	620-1182-2-ND	Automotive Relay Driver with 5V Regulator	16-TSSOP	3892.00/4,000		
A3940KLP-T	620-1058-ND	Full-Bridge Power MOSFET Controller	28-TSSOP	4.19	3.35	2.61
A3946KLB-T	620-1060-ND	Half Bridge Power MOSFET Controller	16-SOIC	2.75	2.20	1.71
A3946KLP-T	620-1061-ND	Half Bridge Power MOSFET Controller	16-TSSOP	2.86	2.29	1.78
A3986SLDTR-T	620-1166-1-ND	Dual Full-Bridge MOSFET Driver with Microstepping Translator	38-TSSOP	3.20	2.56	1.99
A3986SLDTR-T	620-1166-2-ND	Dual Full-Bridge MOSFET Driver with Microstepping Translator	38-TSSOP	7156.00/4,000		
A4401KLTR-T	620-1217-1-ND	Automotive Vacuum Flourescent Display Power Supply	8-SOIC	1.98	1.58	1.19
A4401KLTR-T	620-1217-2-ND	Automotive Vacuum Flourescent Display Power Supply	8-SOIC	3033.00/3,000		
A4490SESTR-T	620-1245-1-ND	Triple Output Step-Down Switching Regulator ***NEW!***	20-QFN	2.25	1.80	1.35
A4490SESTR-T	620-1245-2-ND	Triple Output Step-Down Switching Regulator ***NEW!***	20-QFN	1755.00/1,500		
A6B595KLWTR-T	620-1153-1-ND	8-Bit Serial Input, DMOS Power Driver	20-SOIC	1.65	1.32	.99
A6275SLW-T	620-1085-ND	8-Bit Serial Input, Constant Current Latched LED Driver	16-SOIC	1.55	1.24	.93
A6276ELW-T	620-1086-ND	16-Bit Serial Input, Constant Current Latched LED Driver	24-SOIC	2.45	1.96	1.47
A6276ELWTR-T	620-1151-1-ND	16-Bit Serial Input, Constant Current Latched LED Drive	24-SOIC	2.45	1.96	1.47
A6276ELWTR-T	620-1151-2-ND	16-Bit Serial Input, Constant Current Latched LED Driver	24-SOIC	1274.00/1,000		
A6277ELW-T	620-1087-ND	8-Bit Serial Input, Constant Current Latched LED Driver	16-SOIC	2.45	1.96	1.47
A6277ELWTR-T	620-1152-1-ND	8-Bit Serial Input, Constant Current Latched LED Driver	20-SOIC	2.45	1.96	1.47
A6277ELWTR-T	620-1152-2-ND	8-Bit Serial Input, Constant Current Latched LED Driver	20-SOIC	1274.00/1,000		
A6278EA-T	620-1165-5-ND	8-Channel Serial-Input Constant Current Latached LED Driver	16-Dip	1.55	1.24	.93
A6279ELW-T	620-1219-5-ND	16-Channel Serial-Input Constant Current Latched LED Driver	24-SOIC	1.88	1.50	1.13
A6280EESTR-T	620-1179-1-ND	3-Channel Constant Current LED Driver with PWM Control	16-QFN	1.53	1.22	.92
A6280EESTR-T	620-1179-2-ND	3-Channel Constant Current LED Driver with PWM Control	16-QFN	1189.50/1,500		
A6281EESTR-T	620-1218-1-ND	3-Channel Constant Current LED Driver with PWM Control	16-QFN	1.53	1.22	.92
A6281EESTR-T	620-1218-2-ND	3-Channel Constant Current LED Driver with PWM Control	16-QFN	1189.50/1,500		
A6282EESTR-T	620-1221-1-ND	16-Channel Constant Current LED Driver ***NEW!***	24-QFN	1.23	1.03	.82
A6282EESTR-T	620-1221-2-ND	16-Channel Constant Current LED Driver ***NEW!***	24-QFN	817.50/1,500		
A6282ELP-T	620-1222-5-ND	16-Channel Constant Current LED Driver ***NEW!***	24-TSSOP	1.35	1.13	.90
A6282ELW-T	620-1223-5-ND	16-Channel Constant Current LED Driver ***NEW!***	24-SOIC	1.35	1.13	.90
A6285EET-T	620-1224-5-ND	16-Channel Constant Current LED Driver with Open LED Detection ***NEW!***	32-QFN	2.25	1.80	1.35
A6800SL-T	620-1089-ND	DABiC-5 Latched Sink Drivers	14-SOIC	1.58	1.26	.95
A6801SLW-T	620-1091-ND	DABiC-5 Latched Sink Drivers	24-SOIC	2.10	1.68	1.26
A6810SA-T	620-1092-ND	DABiC-IV, 10-Bit Serial Input, Latched Source Driver	18-Dip	1.83	1.46	1.10
A6812ELW-T	620-1093-ND	DABiC-IV, 20-Bit Serial Input, Latched Source Driver	28-SOIC	4.16	3.33	2.59
A6818SEP-T	620-1094-ND	DABiC-IV, 32-Bit Serial Input, Latched Source Driver	44-PLCC	5.06	4.05	3.42
A6821SA-T	620-1095-ND	DABiC-5 8-Bit Serial Input Latched Sink Drivers	16-Dip	2.25	1.80	1.35
A6821SLW-T	620-1096-ND	DABiC-5 8-Bit Serial Input Latched Sink Drivers	16-SOIC	2.38	1.90	1.43
A6850KLTR-T	620-1185-1-ND	Dual Channel Switch Interface	8-SOIC	1.53	1.22	.92
A6850KLTR-T	620-1185-2-ND	Dual Channel Switch Interface	8-SOIC	2343.00/3,000		
A8285SLBTR-T	620-1202-1-ND	LNB Supply/Control Voltage Reg.	16-SOIC	2.88	2.31	1.80
A8285SLBTR-T	620-1202-2-ND	LNB Supply/Control Voltage Reg.	16-SOIC	1632.00/1,000		
A8287SLBTR-T	620-1200-1-ND	LNB Supply/Control Voltage Reg.	24-SOIC	2.95	2.36	1.84
A8287SLBTR-T	620-1200-2-ND	LNB Supply/Control Voltage Reg.	24-SOIC	1670.00/1,000		
A8292SETTR-T	620-1187-1-ND	Dual LNB Supply/Control Voltage Regulator	28-MLP	3.15	2.52	1.96
A8292SETTR-T	620-1187-2-ND	Dual LNB Supply/Control Voltage Regulator	28-MLP	2677.50/1,500		
A8430EEKTR-T	620-1097-1-ND	White LED Driver Constant Current Step-Up Converter	5-MLPD	.68	.51	.39
A8430EEKTR-T	620-1097-2-ND	White LED Driver Constant Current Step-Up Converter	5-MLPD	339.00/1,500		
A8431EEHTR-T	620-1195-1-ND	White LED Driver Constant Current Step-Up Converter	6-MLP	.80	.60	.45
A8434EESTR-T	620-1188-1-ND	6 Channel, High Efficiency Charge Pump White LED Driver	16-MLP	1.20	1.00	.80
A8434EESTR-T	620-1188-2-ND	6 Channel, High Efficiency Charge Pump White LED Driver	16-MLP	798.00/1,500		
A8436EEJTR-T	620-1098-1-ND	Photoflash Capacitor Charger	10-MLP	1.20	1.00	.80
A8436EEJTR-T	620-1098-2-ND	Photoflash Capacitor Charger	10-MLP	798.00/1,500		
A8438EEJTR-T	620-1099-1-ND	Photoflash Capacitor Charger	10-MLP	1.29	1.08	.86
A8438EEJTR-T	620-1099-2-ND	Photoflash Capacitor Charger	10-MLP	858.00/1,500		
A8439EEJTR-T	620-1203-1-ND	Photoflash Capacitor Charger with IGBT Driver/Refresh	10-MLP	1.23	1.03	.82
A8439EEJTR-T	620-1203-2-ND	Photoflash Capacitor Charger with IGBT Driver/Refresh	10-MLP	817.50/1,500		
A8450KLB-T	620-1100-ND	Automotive Multioutput Voltage Reg.	24-SOIC	4.14	3.32	2.58
A8447SLJTR-T	620-1174-1-ND	High Voltage Step Down Regulator	8-SOIC	1.23	.98	.74
A8447SLJTR-T	620-1174-2-ND	High Voltage Step Down Regulator	8-SOIC	1881.00/3,000		
A8480EEJTR-T	620-1208-1-ND	Boost Regulator for Display Bias or LED Driver	10-MLP	1.08	.86	.65
A8480EEJTR-T	620-1208-2-ND	Boost Regulator for Display Bias or LED Driver	10-MLP	838.50/1,500		
A8483EEKTR-T	620-1101-1-ND	1.2MHz Step-Up Converter for Display Bias Supply	5-MLP	.80	.60	.45
A8498SLJTR-T	620-1160-1-ND	High Voltage Step Down Regulator	8-SOIC	1.30	1.04	.78
A8498SLJTR-T	620-1160-2-ND	High Voltage Step Down Regulator	8-SOIC	1998.00/3,000		
A8499SLJTR-T	620-1102-1-ND	High Voltage Step Down Regulator	8-SOIC	1.47	1.23	.98
A8499SLJTR-T	620-1102-2-ND	High Voltage Step Down Regulator	8-SOIC	1911.00/3,000		
A8500EECTR-T	620-1204-1-ND	Flexible WLED/RGB Backlight Driver	26-QFN	2.48	1.98	1.54
A8500EECTR-T	620-1204-2-ND	Flexible WLED/RGB Backlight Driver	26-QFN	4158.00/3,000		
A8503EECTR-T	620-1246-1-ND	Ultra-Small WLED/RGB Driver ***NEW!***	26-MLP	2.48	1.98	1.54
A8503EECTR-T	620-1246-2-ND	Ultra-Small WLED/RGB Driver ***NEW!***	26-MLP	2104.50/1,500		
A8530EESTR-T	620-1201-1-ND	Ultracompact 6-Channel Backlight and Flash/Torch White LED Driver	16-QFN	1.28	1.02	.77
A8530EESTR-T	620-1201-2-ND	Ultracompact 6-Channel Backlight and Flash/Torch White LED Driver	16-QFN	994.50/1,500		
A8697ELJTR-T	620-1178-1-ND	Wide Input Voltage 4.0A Step Down Regulator	8-SOIC	1.28	1.02	.77
A8697ELJTR-T	620-1178-2-ND	Wide Input Voltage 4.0A Step Down Regulator	8-SOIC	1959.00/3,000		
A8698ELJTR-T	620-1177-1-ND	Wide Input Voltage 3.0A Step Down Regulator	8-SOIC	1.38	1.15	.92
A8698ELJTR-T	620-1177-2-ND	Wide Input Voltage 3.0A Step Down Regulator	8-SOIC	1794.00/3,000		
A8837EEJTR-T	620-1248-1-ND	Photoflash Capacitor Charger with IGBT Driver ***NEW!***	10-MLP	1.32	1.10	.88
A8837EEJTR-T	620-1248-2 -ND	Photoflash Capacitor Charger with IGBT Driver ***NEW!***	10-MLP	877.50/1,500		
ACS754KCB-150-PFF	620-1105-ND	Current Sensor	CB-5	5.08	4.07	3.43
ACS754LCB-050-PFF	620-1106-ND	Current Sensor	CB-5	5.54	4.43	3.45
ACS754LCB-100-PFF	620-1107-ND	Current Sensor	CB-5	5.54	4.43	3.45
ACS754LCB-130-PFF	620-1109-ND	Current Sensor	CB-5	5.26	4.21	3.56
ACS755LCB-050-PFF	620-1110-ND	Current Sensor	CB-5	5.54	4.43	3.45
ACS755LCB-100-PFF	620-1111-ND	Current Sensor	CB-5	5.54	4.43	3.45
ACS755SCB-050-PFF	620-1112-ND	Current Sensor	CB-5	5.18	4.14	3.22
ACS755SCB-100-PFF	620-1113-ND	Current Sensor	CB-5	5.18	4.14	3.22
ACS755SCB-200-PSF	620-1115-ND	Current Sensor	CB-5	5.18	4.14	3.22
ACS760ELF-20B-T	620-1168-1-ND	12V High Side Hot-Swap Hall Effect Based Current Monitor	24-QSOP	5.29	4.23	3.29
ACS760ELF-20B-T	620-1168-2-ND	12V High Side Hot-Swap Hall Effect Based Current Monitor	24-QSOP	7402.50/2,500		
ATS616LSGTN-T	620-1116-1-ND	Dynamic Self-Calibrating Peak Detecting Diff. Hall Effect Gear Tooth Sensor	4-SIP	4.32	3.46	2.69
ATS616LSGTN-T	620-1116-2-ND	Dynamic Self-Calibrating Peak Detecting Diff. Hall Effect Gear Tooth Sensor	4-SIP	1996.80/800		
ATS665LSGTN-T	620-1161-1-ND	True Zero Speed, High Accuracy, Gear Tooth Sensor	4-SIP	4.91	3.93	3.06
ATS665LSGTN-T	620-1161-2-ND	True Zero Speed, High Accuracy, Gear Tooth Sensor	4-SIP	2267.20/800		
ATS673LSETN-LT-T	620-1162-1-ND	Self-Calibrating TPOS Gear Tooth Sensor Optimized	4-SIP	5.60	4.48	3.78
ATS673LSETN-LT-T	620-1162-2-ND	Self-Calibrating TPOS Gear Tooth Sensor Optimized	4-SIP	1638.00/450		
UDN2981A-T	620-1120-ND	8-Channel Source Drivers	18-Dip	1.78	1.42	1.07
UDN2982A-T	620-1121-ND	8-Channel Source Drivers	18-Dip	1.78	1.42	1.07

8 BIT MICROCONTROLLERS
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
DSM2150F5V-12T6	497-1320-ND	3.3V, Digital Signal Processor System Memory	80-TQFP	15.39	14.24	10.78
DSM2180F3-90K6	497-1335-5-ND	5V, Digital Signal Processor System Memory	52-PLCC	10.77	9.83	7.78
DSM2180F3-90T6	497-1321-ND	5V, Digital Signal Processor System Memory	52-PQFP	10.77	9.83	7.78
DSM2180F3V-15K6	497-1336-5-ND	3.3V, Digital Signal Processor System Memory	52-PLCC	10.77	9.83	7.78
DSM2180F3V-15T6	497-1322-ND	3.3V, Digital Signal Processor System Memory	52-PQFP	10.77	9.83	7.78
DSM2190F4V-15K6	497-1337-5-ND	3.3V, Digital Signal Processor System Memory	52-PLCC	11.66	10.79	8.17
FL-101	497-2381-ND	Flash Link Cable Programmer	—	61.36	—	—

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
74AC02B	497-1324-5-ND	Quad 2-Input NOR Gate	14-Dip	.51	.39	.29
74AC04MTR	497-1015-1-ND	Hex Inverter	14-SOIC	.55	.44	.33
74AC08B	497-1325-5-ND	Quad 2-Input AND Gate	14-Dip	.51	.39	.29
74AC08MTR	497-1016-1-ND	Quad 2-Input AND Gate	14-SOIC	.55	.44	.33
74AC08MTR	497-1016-2-ND	Quad 2-Input AND Gate	14-SOIC	412.50/2,500		
74AC14MTR	497-1019-1-ND	Hex Schmitt Inverter	14-SOIC	.55	.44	.33
74AC14MTR	497-1019-2-ND	Hex Schmitt Inverter	14-SOIC	412.50/2,500		
74AC32MTR	497-1026-1-ND	Quad 2-Input OR Gate	14-SOIC	.48	.38	.29
74AC32MTR	497-1026-2-ND	Quad 2-Input OR Gate	14-SOIC	357.50/2,500		
74AC74B	497-1329-5-ND	Dual D-Type F/F with Preset and Clear	14-Dip	.51	.39	.29
74AC74MTR	497-1030-1-ND	Dual D-Type F/F with Preset and Clear	14-SOIC	.53	.42	.32
74AC125MTR	497-1017-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.55	.44	.33
74AC125MTR	497-1017-2-ND	Tri-State Quad Bus Buffer	14-SOIC	412.50/2,500		
74AC240MTR	497-2911-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.68	.54	.41
74AC240TTR	497-2912-1-ND	Tri-State Octal Bus Buffer	20-TSSOP	.65	.52	.36
74AC240TTR	497-2912-2-ND	Tri-State Octal Bus Buffer	20-TSSOP	487.50/2,500		
74AC244MTR	497-1023-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.52	.36
74AC244MTR	497-1023-2-ND	Tri-State Octal Bus Buffer	20-SOIC	208.00/1,000		
74AC244TTR	497-2913-1-ND	Tri-State Octal Bus Buffer*	20-TSSOP	.65	.52	.36
74AC244TTR	497-2913-2-ND	Tri-State Octal Bus Buffer*	20-TSSOP	487.50/2,500		
74AC245B	497-1327-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.72	.58	.44
74AC245MTR	497-1024-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.70	.56	.38
74AC245MTR	497-1024-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	210.00/1,000		
74AC245TTR	497-2914-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.85	.68	.46
74AC257MTR	497-1025-1-ND	Tri-State Quad 2-Channel Mux	16-SOIC	.65	.52	.36
74AC257MTR	497-1025-2-ND	Tri-State Quad 2-Channel Mux	16-SOIC	487.50/2,500		
74AC374B	497-1328-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.72	.58	.44
74AC374MTR	497-1027-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.81	.65	.49
74AC374MTR	497-1027-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	279.00/1,000		
74AC541MTR	497-2915-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.85	.68	.46
74AC541MTR	497-2915-2-ND	Tri-State Octal Bus Buffer	20-SOIC	272.00/1,000		
74AC573MTR	497-1028-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.65	.52	.36
74AC573MTR	497-1028-2-ND	Tri-State Octal D-Type Latch	20-SOIC	208.00/1,000		
74AC574MTR	497-1029-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.65	.52	.36
74AC16244TTR	497-1020-1-ND	Tri-State 16-Bit Bus Buffer*	48-TSSOP	1.35	1.17	.90
74AC16244TTR	497-1020-2-ND	Tri-State 16-Bit Bus Buffer*	48-TSSOP	1044.00/2,000		
74ACT02B	497-1330-5-ND	Quad 2-Input NOR Gate	14-Dip	.51	.39	.29
74ACT02MTR	497-1031-1-ND	Quad 2-Input NOR Gate	14-SOIC	.49	.30	.23
74ACT02MTR	497-1031-2-ND	Quad 2-Input NOR Gate	14-SOIC	320.00/2,500		
74ACT14MTR	497-1034-1-ND	Hex Schmitt Inverter	14-SOIC	.49	.38	.27
74ACT14MTR	497-1034-2-ND	Hex Schmitt Inverter	14-SOIC	320.00/2,500		
74ACT138MTR	497-1033-1-ND	3-8 Inverting Line Decoder	16-SOIC	.70	.56	.42
74ACT240MTR	497-1040-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.75	.60	.41
74ACT240MTR	497-1040-2-ND	Tri-State Octal Bus Buffer	20-SOIC	240.00/1,000		
74ACT244B	497-1331-5-ND	Tri-State Octal Bus Buffer	20-Dip	1.16	1.01	.78
74ACT244MTR	497-1041-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.52	.36
74ACT244MTR	497-1041-2-ND	Tri-State Octal Bus Buffer	20-SOIC	208.00/1,000		
74ACT257MTR	497-1042-1-ND	Tri-State Quad 2-Channel Mux	16-SOIC	.60	.48	.36
74ACT257MTR	497-1042-2-ND	Tri-State Quad 2-Channel Mux	16-SOIC	450.00/2,500		
74ACT273MTR	497-1043-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.80	.58	.44
74ACT273MTR	497-1043-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	256.00/1,000		
74ACT299TTR	497-4140-1-ND	8-Bit PIPO Shift Register*	20-TSSOP	.68	.54	.41
74ACT299TTR	497-4140-2-ND	8-Bit PIPO Shift Register*	20-TSSOP	535.00/2,500		
74ACT374TTR	497-4141-1-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	.68	.54	.41
74ACT374TTR	497-4141-2-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	535.00/2,500		
74ACT541MTR	497-1044-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.90	.72	.49
74ACT541MTR	497-1044-2-ND	Tri-State Octal Bus Buffer	20-SOIC	288.00/1,000		
74ACT573B	497-1334-5-ND	Tri-State Octal D-Type Latch	20-Dip	.72	.58	.44
74ACT573MTR	497-1045-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.65	.52	.36
74ACT573MTR	497-1045-2-ND	Tri-State Octal D-Type Latch	20-SOIC	208.00/1,000		
74ACT16244TTR	497-1035-1-ND	Tri-State 16-Bit Bus Buffer*	48-TSSOP	1.35	1.17	.90
74ACT16244TTR	497-1035-2-ND	Tri-State 16-Bit Bus Buffer*	48-TSSOP	1044.00/2,000		
74ACT16245TTR	497-1036-1-ND	Tri-State 16-Bit Bus Transceiver*	48-TSSOP	1.35	1.17	.90
74ACT16245TTR	497-1036-2-ND	Tri-State 16-Bit Bus Transceiver*	48-TSSOP	1044.00/2,000		
74ACT16374TTR	497-1038-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.35	1.17	.90
74ACT16374TTR	497-1038-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1044.00/2,000		
74ALVCH16244TTR	497-1046-1-ND	LV CMOS 16-Bit Bus Buffer*	48-TSSOP	2.07	1.73	1.45
74ALVCH16244TTR	497-1046-2-ND	LV CMOS 16-Bit Bus Buffer*	48-TSSOP	1864.00/2,000		
74ALVCH16374TTR	497-1047-1-ND	LV CMOS 16-Bit D-Type Flip-Flop*	48-TSSOP	2.07	1.73	1.45
74ALVCH16374TTR	497-1047-2-ND	LV CMOS 16-Bit D-Type Flip-Flop*	48-TSSOP	1864.00/2,000		
74ALVCH32245LBR	497-3705-1-ND	Tri-State Low Voltage, CMOS 32-Bit Bus Transceiver	96-LFBGA	6.33	5.78	4.57
74ALVCH32245LBR	497-3705-2-ND	Tri-State Low Voltage, CMOS 32-Bit Bus Transceiver	96-LFBGA	7012.00/2,000		
74ALVCR162245TTR	497-2382-1-ND	3.6V, 16-Bit Transceiver	48-TSSOP	2.07	1.73	1.45
74H1G66STR	497-1245-1-ND	Single Bilateral Switch	SOT-23-5L	.60	.48	.36
74LCX00MTR	497-1048-1-ND	LV CMOS Quad 2-Input NAND Gate	14-SOIC	.48	.38	.29
74LCX00MTR	497-1048-2-ND	LV CMOS Quad 2-Input NAND Gate	14-SOIC	356.25/2,500		
74LCX125MTR	497-1051-1-ND	Low Volt. CMOS Quad Bus Buffer*	14-SOIC	.48	.38	.29
74LCX125MTR	497-1051-2-ND	Low Volt. CMOS Quad Bus Buffer*	14-SOIC	357.50/2,500		
74LCX157MTR	497-1052-1-ND	LV CMOS Quad 2-Channel Mux	16-SOIC	.55	.40	.30
74LCX157MTR	497-1052-2-ND	LV CMOS Quad 2-Channel Mux	16-SOIC	412.50/2,500		
74LCX244TTR	497-2917-1-ND	Low Volt. CMOS Octal Bus Buffer*	20-TSSOP	.70	.56	.38
74LCX244TTR	497-2917-2-ND	Low Volt. CMOS Octal Bus Buffer*	20-TSSOP	525.00/2,500		
74LCX245MTR	497-1062-1-ND	LV CMOS Octal Bus Transceiver*	20-SOIC	.75	.60	.41
74LCX245MTR	497-1062-2-ND	LV CMOS Octal Bus Transceiver*	20-SOIC	240.00/1,000		
74LCX373MTR	497-1064-1-ND	Octal D-Type Latch	20-SOIC	.75	.60	.41
74LCX373MTR	497-1064-2-ND	Octal D-Type Latch	20-SOIC	240.00/1,000		
74LCX374MTR	497-1065-1-ND	Octal D-Type Flip-Flop	20-SOIC	.70	.56	.38
74LCX541MTR	497-1066-1-ND	Low Volt. CMOS Octal Bus Buffer	20-SOIC	.70	.56	.42
74LCX541MTR	497-1066-2-ND	Low Volt. CMOS Octal Bus Buffer	20-SOIC	224.00/1,000		
74LCX541TTR	497-2918-1-ND	Low Volt. CMOS Octal Bus Buffer*	20-TSSOP	.70	.56	.38
74LCX541TTR	497-2918-2-ND	Low Volt. CMOS Octal Bus Buffer*	20-TSSOP	525.00/2,500		
74LCX16240TTR	497-1054-1-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1.39	1.21	.93
74LCX16240TTR	497-1054-2-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1073.00/2,000		
74LCX16244TTR	497-1055-1-ND	Low Volt. CMOS 16-Bit Bus Buffer*	48-TSSOP	1.35	1.17	.90
74LCX16244TTR	497-1055-2-ND	Low Volt. CMOS 16-Bit Bus Buffer*	48-TSSOP	1044.00/2,000		
74LCX16245TTR	497-1056-1-ND	LV CMOS 16-Bit Bus Transceiver*	48-TSSOP	1.35	1.17	.90
74LCX16245TTR	497-1056-2-ND	LV CMOS 16-Bit Bus Transceiver*	48-TSSOP	1044.00/2,000		
74LCX16373TTR	497-1058-1-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	1.35	1.17	.90
74LCX16373TTR	497-1058-2-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	1044.00/2,000		
74LCX16374TTR	497-1059-1-ND	Low Volt. CMOS 16-Bit D-Type F/F	48-TSSOP	1.35	1.17	.90
74LCX16374TTR	497-1059-2-ND	Low Volt. CMOS 16-Bit D-Type F/F	48-TSSOP	1044.00/2,000		
74LCX16541TTR	497-1060-1-ND	Low Volt. CMOS 16-Bit Bus Buffer*	48-TSSOP	2.94	2.45	2.06
74LCX16541TTR	497-1060-2-ND	Low Volt. CMOS 16-Bit Bus Buffer*	48-TSSOP	2646.00/2,000		

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
74LCX162244TTR	497-1053-1-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	.90
74LCX162244TTR	497-1053-2-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1044.00/2,000		
74LCXH16245TTR	497-1070-1-ND	Low Voltage CMOS 16-Bit Bus Transceiver*	48-TSSOP	1.46	1.27	.98
74LCXH16245TTR	497-1070-2-ND	Low Voltage CMOS 16-Bit Bus Transceiver*	48-TSSOP	1132.00/2,000		
74LCXHR162245TTR	497-1071-1-ND	Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1.46	1.27	.98
74LCXHR162245TTR	497-1071-2-ND	Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1131.00/2,000		
74LVC04AMTR	497-5777-1-ND	Low Voltage CMOS Hex Inverter High Performance*	14-SOP	.65	.52	.39
74LVC04AMTR	497-5777-2-ND	Low Voltage CMOS Hex Inverter High Performance*	14-SOP	487.50/2,500		
74LVC04ATTR	497-5778-1-ND	Low Voltage CMOS Hex Inverter High Performance*	14-TSSOP	.65	.52	.39
74LVC04ATTR	497-5778-2-ND	Low Voltage CMOS Hex Inverter High Performance*	14-TSSOP	487.50/2,500		
74LVC08AMTR	497-1073-1-ND	Low Voltage CMOS Quad 2-Input AND Gate	14-SOIC	.50	.40	.30
74LVC08AMTR	497-1073-2-ND	Low Voltage CMOS Quad 2-Input AND Gate	14-SOIC	320.00/2,500		
74LVC14AMTR	497-1074-1-ND	Low Voltage CMOS Hex Inverter	14-SOIC	.49	.30	.23
74LVC86AMTR	497-1078-1-ND	Low Voltage CMOS Quad Exclusive OR Gate	14-SOIC	.48	.38	.29
74LVC86AMTR	497-1078-2-ND	Low Voltage CMOS Quad Exclusive OR Gate	14-SOIC	320.00/2,500		
74LVC244ATTR	497-2919-1-ND	Tri-State Low Voltage CMOS Quad Bus Buffer*	20-TSSOP	.75	.54	.41
74LVC244ATTR	497-2919-2-ND	Tri-State Low Voltage CMOS Quad Bus Buffer*	20-TSSOP	562.50/2,500		
74LVC373AMTR	497-1076-1-ND	Octal D-Type Latch	20-SOIC	.65	.52	.39
74LVC373AMTR	497-1076-2-ND	Octal D-Type Latch	20-SOIC	208.00/1,000		
74LVC161284TTR	497-1075-1-ND	Low Voltage High Speed IEEE 1284 Transceiver	48-TSSOP	2.97	2.48	2.08
74LVC161284TTR	497-1075-2-ND	Low Voltage High Speed IEEE 1284 Transceiver	48-TSSOP	2674.00/2,000		
74LVCZ161284ATTR	497-1079-1-ND	Low Voltage High Speed IEEE 1284 Transceiver	48-TSSOP	3.48	3.04	2.26
74LVCZ161284ATTR	497-1079-2-ND	Low Voltage High Speed IEEE 1284 Transceiver	48-TSSOP	3431.40/2,000		
74LVX00MTR	497-1080-1-ND	Low Voltage CMOS Quad 2-Input NAND Gate	14-SOIC	.52	.40	.29
74LVX00MTR	497-1080-2-ND	Low Voltage CMOS Quad 2-Input NAND Gate	14-SOIC	320.00/2,500		
74LVX08MTR	497-1081-1-ND	Low Voltage CMOS Quad 2-Input AND Gate	14-SOIC	.52	.40	.29
74LVX08MTR	497-1081-2-ND	Low Voltage CMOS Quad 2-Input AND Gate	14-SOIC	320.00/2,500		
74LVX14MTR	497-1085-1-ND	Low Voltage CMOS Hex Schmitt Inverter	14-SOIC	.65	.40	.30
74LVX14MTR	497-1085-2-ND	Low Voltage CMOS Hex Schmitt Inverter	14-SOIC	425.00/2,500		
74LVX157MTR	497-4143-1-ND	Low Voltage Quad 2-Channel Mux	16-SOP	.68	.54	.41
74LVX157MTR	497-4143-2-ND	Low Voltage Quad 2-Channel Mux	16-SOP	535.00/2,500		
74LVX244MTR	497-1087-1-ND	Low Voltage CMOS Octal Bus Buffer	20-SOIC	.65	.47	.36
74LVX244MTR	497-1087-2-ND	Low Voltage CMOS Octal Bus Buffer	20-SOIC	208.00/1,000		
74LVX244TTR	497-2920-1-ND	Low Volt. CMOS Octal Bus Buffer*	20-TSSOP	.65	.47	.36
74LVX244TTR	497-2920-2-ND	Low Volt. CMOS Octal Bus Buffer*	20-TSSOP	487.50/2,500		
74LVX245MTR	497-1088-1-ND	Low Voltage CMOS Octal Bus Transceiver	20-SOIC	.75	.54	.41
74LVX245MTR	497-1088-2-ND	Low Voltage CMOS Octal Bus Transceiver	20-SOIC	240.00/1,000		
74LVX374MTR	497-1090-1-ND	Low Voltage CMOS Octal D-Type F/F	20-SOIC	.70	.51	.38
74LVX374MTR	497-1090-2-ND	Low Voltage CMOS Octal D-Type F/F	20-SOIC	224.00/1,000		
74LVX3245MTR	497-1089-1-ND	Octal Dual Supply Bus Transceiver*	24-SOIC	1.73	1.50	1.15
74LVX3245MTR	497-1089-2-ND	Octal Dual Supply Bus Transceiver*	24-SOIC	667.00/1,000		
74LVX4245MTR	497-1091-1-ND	Octal Dual Supply Bus Transceiver*	24-SOIC	1.54	1.34	1.03
74LVX4245MTR	497-1091-2-ND	Octal Dual Supply Bus Transceiver*	24-SOIC	595.00/1,000		
74LVX16373TTR	497-1086-1-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	1.31	1.14	.88
74LVX16373TTR	497-1086-2-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	1016.00/2,000		
74LVXC3245MTR	497-1092-1-ND	Octal Dual Supply Bus Transceiver	24-SOIC	1.50	1.30	1.00
74LVXC3245MTR	497-1092-2-ND	Octal Dual Supply Bus Transceiver	24-SOIC	580.00/1,000		
74LVXU04MTR	497-1093-1-ND	Low Voltage CMOS Hex Inverter	14-SOIC	.39	.29	.21
74LVXU04TTR	497-5880-1-ND	Low Volt. CMOS Hex Inverter, Single Stage*	14-TSSOP	.65	.52	.39
74LVXU04TTR	497-5880-2-ND	Low Volt. CMOS Hex Inverter Single Stage*	14-TSSOP	487.50/2,500		
74LX1G04CTR	497-4027-1-ND	Low Voltage CMOS Single Inverter*	SOT-323-5L	.43	.32	.22
74LX1G04CTR	497-4027-2-ND	Low Voltage CMOS Single Inverter*	SOT-323-5L	270.00/3,000		
74LX1G08CTR	497-4028-1-ND	Low Voltage CMOS Single 2-Input AND Gate*	SOT-323-5L	.43	.32	.22
74LX1G08CTR	497-4028-2-ND	Low Voltage CMOS Single 2-Input AND Gate*	SOT-323-5L	270.00/3,000		
74LX1G08STR	497-1252-1-ND	Low Voltage CMOS Single 2-Input AND Gate*	SOT-23-5L	.43	.32	.22
74LX1G08STR	497-1252-2-ND	Low Voltage CMOS Single 2-Input AND Gate*	SOT-23-5L	270.00/3,000		
74LX1G14CTR	497-4030-1-ND	Low Voltage CMOS Single Schmitt Inverter*	SOT-323-5L	.43	.32	.22
74LX1G14CTR	497-4030-2-ND	Low Voltage CMOS Single Schmitt Inverter*	SOT-323-5L	270.00/3,000		
74LX1G32CTR	497-4545-1-ND	Low Voltage CMOS Single 2-Input OR Gate*	SOT-323-5L	.43	.32	.22
74LX1G32CTR	497-4545-2-ND	Low Voltage CMOS Single 2-Input OR Gate*	SOT-323-5L	270.00/3,000		
74LX1G70CTR	497-4519-1-ND	Single Buffer*	SOT-323-5L	.43	.32	.22
74LX1G70CTR	497-4519-2-ND	Single Buffer*	SOT-323-5L	270.00/3,000		
74LX1G126CTR	497-4029-1-ND	Tri-State Single Bus Buffer*	SOT-323-5L	.77	.62	.46
74LX1G126CTR	497-4029-2-ND	Tri-State Single Bus Buffer*	SOT-323-5L	726.00/3,000		
74LX1GU04CTR	497-4638-1-ND	Low Voltage CMOS Single Inverter*	SOT-323-5L	.43	.32	.22
74LX1GU04CTR	497-4638-2-ND	Low Voltage CMOS Single Inverter*	SOT-323-5L	270.00/3,000		

***** ***RoHS Compliant***

(Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
74V1G00CTR	497-4031-1-ND	Single 2-Input NAND Gate*	SOT-323-5L	.43	.32	.22
74V1G00CTR	497-4031-2-ND	Single 2-Input NAND Gate*	SOT-323-5L	270.00/3,000		
74V1G04CTR	497-4032-1-ND	Single Inverter*	SOT-323-5L	.43	.32	.22
74V1G04CTR	497-4032-2-ND	Single Inverter*	SOT-323-5L	270.00/3,000		
74V1G04STR	497-1264-1-ND	Single Inverter*	SOT-23-5L	.43	.32	.22
74V1G04STR	497-1264-2-ND	Single Inverter*	SOT-23-5L	270.00/3,000		
74V1G08CTR	497-4520-1-ND	Single 2-Input AND Gate*	SOT-323-5L	.70	.56	.42
74V1G08CTR	497-4520-2-ND	Single 2-Input AND Gate*	SOT-323-5L	630.00/3,000		
74V1G08STR	497-1267-1-ND	Single 2-Input AND Gate*	SOT-23-5L	.43	.32	.22
74V1G08STR	497-1267-2-ND	Single 2-Input AND Gate*	SOT-23-5L	270.00/3,000		
74V1G14CTR	497-4521-1-ND	Single Schmitt Inverter*	SOT-323-5L	.43	.32	.22
74V1G14CTR	497-4521-2-ND	Single Schmitt Inverter*	SOT-323-5L	270.00/3,000		
74V1G14STR	497-1270-1-ND	Single Schmitt Inverter*	SOT-23-5L	.43	.32	.22
74V1G14STR	497-1270-2-ND	Single Schmitt Inverter	SOT-23-5L	270.00/3,000		
74V1G32CTR	497-4522-1-ND	Single 2-Input OR Gate*	SOT-323-5L	.43	.32	.22
74V1G32CTR	497-4522-2-ND	Single 2-Input OR Gate*	SOT-323-5L	270.00/3,000		
74V1G32STR	497-1271-1-ND	Single 2-Input OR Gate	SOT-23-5L	.43	.32	.22
74V1G32STR	497-1271-2-ND	Single 2-Input OR Gate	SOT-23-5L	270.00/3,000		
74V1G66CTR	497-4035-1-ND	Single Bilateral Switch*	SOT-323-5L	.43	.32	.22
74V1G66CTR	497-4035-2-ND	Single Bilateral Switch*	SOT-323-5L	270.00/3,000		
74V1G66STR	497-1273-1-ND	Single Bilateral Switch	SOT-23-5L	.43	.32	.22
74V1G66STR	497-1273-2-ND	Single Bilateral Switch	SOT-23-5L	270.00/3,000		
74V1G70STR	497-1274-1-ND	Single Buffer*	SOT-23-5L	.43	.32	.22
74V1G70STR	497-1274-2-ND	Single Buffer*	SOT-23-5L	270.00/3,000		
74V1G125CTR	497-4033-1-ND	Tri-State Single Bus Buffer*	SOT-323-5L	.43	.32	.22
74V1G125CTR	497-4033-2-ND	Tri-State Single Bus Buffer*	SOT-323-5L	270.00/3,000		
74V1G125STR	497-1268-1-ND	Tri-State Single Bus Buffer*	SOT-23-5L	.43	.32	.22
74V1G125STR	497-1268-2-ND	Tri-State Single Bus Buffer*	SOT-23-5L	270.00/3,000		
74V1G384CTR	497-4034-1-ND	Single High Speed Bus Switch*	SOT-323-5L	.43	.32	.22
74V1G384CTR	497-4034-2-ND	Single High Speed Bus Switch*	SOT-323-5L	270.00/3,000		
74V1G384STR	497-1272-1-ND	Single High Speed Bus Switch	SOT-23-5L	.43	.32	.22
74V1T04CTR	497-4144-1-ND	Single Inverter*	SOT-323-5L	.43	.32	.22
74V1T04CTR	497-4144-2-ND	Single Inverter*	SOT-323-5L	270.00/3,000		
74V1T04STR	497-1283-1-ND	Single Inverter	SOT-23-5L	.70	.56	.42
74V1T08CTR	497-4036-1-ND	Single 2-Input AND Gate*	SOT-323-5L	.43	.32	.22
74V1T08CTR	497-4036-2-ND	Single 2-Input AND Gate*	SOT-323-5L	270.00/3,000		
74V1T14CTR	497-4038-1-ND	Single Schmitt Inverter*	SOT-323-5L	.43	.32	.22
74V1T14CTR	497-4038-2-ND	Single Schmitt Inverter*	SOT-323-5L	270.00/3,000		
74V1T14STR	497-1289-1-ND	Single Schmitt Inverter*	SOT-23-5L	.43	.32	.22
74V1T14STR	497-1289-2-ND	Single Schmitt Inverter*	SOT-23-5L	270.00/3,000		
74V1T66CTR	497-4039-1-ND	Single Bilateral Switch*	SOT-323-5L	.43	.32	.22
74V1T66CTR	497-4039-2-ND	Single Bilateral Switch*	SOT-323-5L	270.00/3,000		
74V1T66STR	497-1292-1-ND	Single Bilateral Switch	SOT-23-5L	.43	.32	.22
74V1T125CTR	497-4037-1-ND	Tri-State Single Bus Buffer*	SOT-323-5L	.43	.32	.22
74V1T125CTR	497-4037-2-ND	Tri-State Single Bus Buffer*	SOT-323-5L	270.00/3,000		
74V2G00STR	497-1298-1-ND	Dual 2-Input NAND Gate	SOT-23-8L	.81	.65	.49
74V2G00STR	497-1298-2-ND	Dual 2-Input NAND Gate	SOT-23-8L	769.50/3,000		
74V2G04STR	497-1300-1-ND	Triple Inverter	SOT-23-8L	.53	.42	.32
74V2G04STR	497-1300-2-ND	Triple Inverter	SOT-23-8L	474.00/3,000		
74V2G08STR	497-1303-1-ND	Dual 2-Input AND Gate	SOT-23-8L	.53	.42	.32
74V2G08STR	497-1303-2-ND	Dual 2-Input AND Gate	SOT-23-8L	474.00/3,000		
74V2G14STR	497-1306-1-ND	Triple Schmitt Inverter	SOT-23-8L	.53	.42	.32
74V2G14STR	497-1306-2-ND	Triple Schmitt Inverter	SOT-23-8L	474.00/3,000		
74V2G32STR	497-4523-1-ND	Dual 2-Input OR Gate*	SOT-23-8L	.81	.65	.49
74V2G32STR	497-4523-2-ND	Dual 2-Input OR Gate*	SOT-23-8L	771.00/3,000		
74V2G66STR	497-1308-1-ND	Dual Bilateral Switch*	SOT-23-8L	.53	.42	.32
74V2G66STR	497-1308-2-ND	Dual Bilateral Switch*	SOT-23-8L	474.00/3,000		
74V2G70STR	497-1309-1-ND	Triple Buffer*	SOT-23-8L	.53	.42	.32
74V2G70STR	497-1309-2-ND	Triple Buffer*	SOT-23-8L	474.00/3,000		
74V2G126STR	497-1305-1-ND	Tri-State Dual Bus Buffer	SOT-23-8L	.53	.42	.32
74V2G126STR	497-1305-2-ND	Tri-State Dual Bus Buffer	SOT-23-8L	474.00/3,000		
74V2T04STR	497-1311-1-ND	Triple Inverter	SOT-23-8L	.53	.42	.32
74V2T04STR	497-1311-2-ND	Triple Inverter	SOT-23-8L	474.00/3,000		
74V2T08STR	497-1314-1-ND	Dual 2-Input AND Gate*	SOT-23-8L	.53	.42	.32
74V2T08STR	497-1314-2-ND	Dual 2-Input AND Gate*	SOT-23-8L	474.00/3,000		
74V2T125STR	497-1315-1-ND	Tri-State Dual Bus Buffer	SOT-23-8L	.53	.42	.32
74V2T125STR	497-1315-2-ND	Tri-State Dual Bus Buffer	SOT-23-8L	474.00/3,000		
74V2T126STR	497-1316-1-ND	Tri-State Dual Bus Buffer	SOT-23-8L	.53	.42	.32
74V2T126STR	497-1316-2-ND	Tri-State Dual Bus Buffer	SOT-23-8L	474.00/3,000		
74VCX16244TTR	497-1095-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Buffer*	48-TSSOP	1.80	1.50	1.26
74VCX16244TTR	497-1095-2-ND	Tri-State Low Voltage CMOS 16-Bit Bus Buffer*	48-TSSOP	1620.00/2,000		
74VCX16245LBR	497-2921-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver	54-TFBGA	2.55	2.13	1.79
74VCX16245LBR	497-2921-2-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver	54-TFBGA	3315.00/3,000		
74VCX16245TTR	497-3706-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver*	48-TSSOP	1.80	1.50	1.26
74VCX16245TTR	497-3706-2-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver*	48-TSSOP	1620.00/2,000		
74VCX16374TTR	497-1097-1-ND	Tri-State Low Voltage CMOS 16-Bit D-Type Flip-Flop*	48-TSSOP	1.80	1.50	1.26
74VCX16374TTR	497-1097-2-ND	Tri-State Low Voltage CMOS 16-Bit D-Type Flip-Flop*	48-TSSOP	1620.00/2,000		
74VCX1632245LBR	497-2922-1-ND	16-Bit Dual Supply Bus Transcvr*	54-TFBGA	3.51	3.06	2.28
74VCX1632245LBR	497-2922-2-ND	16-Bit Dual Supply Bus Transcvr*	54-TFBGA	4992.00/3,000		
74VCX1632245TBR	497-4145-1-ND	16-Bit Dual Supply Bus Transceiver	42-TFBGA	2.55	2.13	1.79
74VCX1632245TBR	497-4145-2-ND	16-Bit Dual Supply Bus Transceiver	42-TFBGA	3315.00/3,000		
74VCX1632245TTR	497-2923-1-ND	16-Bit Dual Supply Bus Transcvr*	48-TSSOP	2.82	2.35	1.98
74VCX1632245TTR	497-2923-2-ND	16-Bit Dual Supply Bus Transcvr*	48-TSSOP	2538.00/2,000		
74VCXH16244TTR	497-1098-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Buffer	48-TSSOP	1.80	1.50	1.26
74VCXH16244TTR	497-1098-2-ND	Tri-State Low Voltage CMOS 16-Bit Bus Buffer	48-TSSOP	1620.00/2,000		
74VCXH16245TTR	497-1099-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1.80	1.50	1.26
74VCXH16245TTR	497-1099-2-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1620.00/2,000		
74VCXH16374TTR	497-1101-1-ND	Tri-State Low Voltage CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	1.80	1.50	1.26
74VCXH16374TTR	497-1101-2-ND	Tri-State Low Voltage CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	1620.00/2,000		
74VCXH1632245TBR	497-4146-1-ND	16-Bit Dual Supply Bus Transceiver Level Translator	42-TFBGA	2.55	2.13	1.79
74VCXH1632245TBR	497-4146-2-ND	16-Bit Dual Supply Bus Transceiver Level Translator	42-TFBGA	3315.00/3,000		
74VCXH1632245TTR	497-4147-1-ND	16-Bit Dual Supply Bus Transceiver Level Translator	48-TSSOP	2.55	2.13	1.79
74VCXH1632245TTR	497-4147-2-ND	16-Bit Dual Supply Bus Transceiver Level Translator	48-TSSOP	2296.00/2,000		
74VHC05TTR	497-4148-1-ND	Hex Inverter, Open Drain*	14-TSSOP	.65	.52	.39
74VHC05TTR	497-4148-2-ND	Hex Inverter, Open Drain*	14-TSSOP	487.50/2,500		
74VHC14MTR	497-1104-1-ND	Hex Schmitt Inverter	14-SOIC	.49	.30	.23
74VHC14MTR	497-1104-2-ND	Hex Schmitt Inverter	14-SOIC	320.00/2,500		
74VHC138MTR	497-1103-1-ND	3-8 Line Decoder	16-SOIC	.55	.44	.30
74VHC240MTR	497-2925-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.47	.36
74VHC244MTR	497-2926-1-ND	Tri-State Octal Bus Buffer*	20-SOIC	.65	.47	.36
74VHC244MTR	497-2926-2-ND	Tri-State Octal Bus Buffer*	20-SOIC	208.00/1,000		
74VHC245MTR	497-1105-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.75	.54	.41
74VHC245MTR	497-1105-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	240.00/1,000		
74VHC273MTR	497-1106-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.65	.47	.36
74VHC273MTR	497-1106-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	195.00/1,000		
74VHC16240TTR	497-2924-1-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	.90
74VHC16240TTR	497-2924-2-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1044.00/2,000		
74VHCT244AMTR	497-2928-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.47	.36
74VHCT244AMTR	497-2928-2-ND	Tri-State Octal Bus Buffer	20-SOIC	208.00/1,000		
74VHCT541AMTR	497-2929-1-ND	Tri-State Octal Bus Buffer*	20-SOIC	.70	.51	.38
74VHCT541AMTR	497-2929-2-ND	Tri-State Octal Bus Buffer*	20-SOIC	224.00/1,000		
74VHCT16373ATTR	497-1107-1-ND	16-Bit D-Type Latch*	48-TSSOP	1.35	1.17	.90
74VHCT16373ATTR	497-1107-2-ND	16-Bit D-Type Latch*	48-TSSOP	1044.00/2,000		
74VHCU04TTR	497-5881-1-ND	Single Stage Hex Inverter*	14-TSSOP	.65	.52	.39
74VHCU04TTR	497-5881-2-ND	Single Stage Hex Inverter*	14-TSSOP	487.50/2,500		
HCF4001BEY	497-1340-5-ND	Quad 2-Input NOR Gate*	14-Dip	.55	.43	.31
HCF4001M013TR	497-1110-1-ND	Quad 2-Input NOR Gate	14-SOIC	.55	.43	.26
HCF4001M013TR	497-1110-2-ND	Quad 2-Input NOR Gate	14-SOIC	362.50/2,500		
HCF4011BEY	497-1345-5-ND	Quad 2-Input NAND Gate	14-Dip	.48	.35	.26
HCF4011M013TR	497-1114-1-ND	Quad 2-Input NAND Gate	14-SOIC	.49	.30	.23
HCF4011M013TR	497-1114-2-ND	Quad 2-Input NAND Gate	14-SOIC	320.00/2,500		
HCF4013BEY	497-1346-5-ND	Dual D-Type Flip-Flop*	14-Dip	.48	.35	.26
HCF4013M013TR	497-1115-1-ND	Dual D-Type Flip-Flop	14-SOIC	.45	.36	.27
HCF4014BEY	497-1347-5-ND	Sync. Parallel or Serial In/Serial Out 8-Stage Static Shift Register*	16-Dip	.63	.51	.38
HCF4014M013TR	497-1116-1-ND	Sync. Parallel or Serial In/Serial Out 8-Stage Static Shift Register*	16-SOIC	.45	.36	.27
HCF4014M013TR	497-1116-2-ND	Sync. Parallel or Serial In/Serial Out 8-Stage Static Shift Register*	16-SOIC	337.50/2,500		
HCF4015BEY	497-1348-5-ND	Dual 4-Stage Static Shift Register*	16-Dip	.48	.35	.26
HCF4015M013TR	497-1117-1-ND	Dual 4-Stage Static Shift Register	16-SOIC	.72	.58	.44
HCF4015M013TR	497-1117-2-ND	Dual 4-Stage Static Shift Register	16-SOIC	570.00/2,500		
HCF4016BEY	497-1349-5-ND	Quad Bilateral Switch*	14-Dip	.65	.47	.36
HCF4016M013TR	497-1118-1-ND	Quad Bilateral Switch	14-SOIC	.49	.30	.23
HCF4016M013TR	497-1118-2-ND	Quad Bilateral Switch	14-SOIC	320.00/2,500		
HCF4017BEY	497-1350-5-ND	Decade Counter w/10 Decoded Output	16-Dip	.77	.62	.46
HCF4017M013TR	497-1119-1-ND	Decade Counter with 10 Decoded Output*	16-SOIC	.50	.40	.30
HCF4017M013TR	497-1119-2-ND	Decade Counter with 10 Decoded Output*	16-SOIC	375.00/2,500		
HCF4020BEY	497-1351-5-ND	14-Stage Ripple-Carry Binary Counter/Divider*	16-Dip	.60	.44	.33
HCF4021BEY	497-1352-5-ND	Async. Parallel In or Sync. Serial In/Serial Out 8-Stage Static Shift Register	16-Dip	.49	.43	.33
HCF4021M013TR	497-1120-1-ND	Async. Parallel In or Sync. Serial In/Serial Out 8-Stage Static Shift Register*	16-SOIC	.55	.40	.30
HCF4021M013TR	497-1120-2-ND	Async. Parallel In or Sync. Serial In/Serial Out 8-Stage Static Shift Register*	16-SOIC	412.50/2,500		
HCF4024BEY	497-1353-5-ND	7-Stage Ripple-Carry Binary Counter/Divider	14-Dip	.50	.40	.30
HCF4024M013TR	497-1121-1-ND	7-Stage Ripple-Carry Binary Counter/Divider*	14-SOIC	.52	.40	.29
HCF4024M013TR	497-1121-2-ND	7-Stage Ripple-Carry Binary Counter/Divider*	14-SOIC	340.00/2,500		
HCF4028BEY	497-1354-5-ND	BCD to Decimal Decoder	16-Dip	.65	.47	.36
HCF4028M013TR	497-1122-1-ND	BCD to Decimal Decoder*	16-SOIC	.50	.40	.30
HCF4030BEY	497-1355-5-ND	Quad Exclusive OR Gate	14-Dip	.60	.48	.36
HCF4030M013TR	497-1123-1-ND	Quad Exclusive OR Gate*	14-SOIC	.52	.40	.29
HCF4030M013TR	497-1123-2-ND	Quad Exclusive OR Gate*	14-SOIC	340.00/2,500		
HCF4040BEY	497-1356-5-ND	12-Stage Ripple-Carry Binary Counter/Divider*	16-Dip	.63	.51	.38
HCF4040M013TR	497-1124-1-ND	12-Stage Ripple-Carry Binary Counter/Divider*	16-SOIC	.50	.40	.30
HCF4040M013TR	497-1124-2-ND	12-Stage Ripple-Carry Binary Counter/Divider*	16-SOIC	375.00/2,500		
HCF4042BEY	497-1357-5-ND	Quad Clocked D-Latch	16-Dip	.79	.63	.48
HCF4042M013TR	497-1125-1-ND	Quad Clocked D-Latch	16-SOIC	.52	.32	.24
HCF4042M013TR	497-1125-2-ND	Quad Clocked D-Latch	16-SOIC	340.00/2,500		
HCF4047BEY	497-1358-5-ND	Low Power Monostable/Astable Multivibrator	14-Dip	.60	.44	.33
HCF4047M013TR	497-1126-1-ND	Low Power Monostable/Astable Multivibrator*	14-SOIC	.65	.47	.36
HCF4047M013TR	497-1126-2-ND	Low Power Monostable/Astable Multivibrator*	14-SOIC	487.50/2,500		
HCF4049UBEY	497-1359-5-ND	Hex Buffer/Converter*	16-Dip	.55	.40	.30
HCF4049UM013TR	497-1127-1-ND	Hex Buffer/Converter*	16-SOIC	.55	.34	.26
HCF4049UM013TR	497-1127-2-ND	Hex Buffer/Converter*	16-SOIC	362.50/2,500		
HCF4050BEY	497-1360-5-ND	Hex Buffer/Converter	16-Dip	.48	.35	.26
HCF4050M013TR	497-1128-1-ND	Hex Buffer/Converter	16-SOIC	.55	.34	.26
HCF4051BEY	497-1361-5-ND	8-Channel Analog Mux/Demux*	16-Dip	.55	.44	.33
HCF4051M013TR	497-1129-1-ND	8-Channel Analog Mux/Demux*	16-SOIC	.48	.35	.26
HCF4051M013TR	497-1129-2-ND	8-Channel Analog Mux/Demux*	16-SOIC	357.50/2,500		
HCF4052BEY	497-1362-5-ND	Diff. 4-Channel Analog Mux/Demux	16-Dip	.65	.47	.36
HCF4052M013TR	497-1130-1-ND	Diff. 4-Channel Analog Mux/Demux*	16-SOIC	.48	.38	.29
HCF4052M013TR	497-1130-2-ND	Differential 4-Channel Analog Mux/Demux*	16-SOIC	357.50/2,500		
HCF4053BEY	497-1363-5-ND	Triple 2-Channel Analog Mux/Demux*	16-Dip	.48	.35	.26
HCF4053BTTR	497-2383-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.72	.58	.44

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HCF4056BEY	497-1364-5-ND	BCD-to-7 Segment Decoder/Driver	16-Dip	.95	.76	.57
HCF4056M013TR	497-1132-1-ND	BCD-to-7 Segment Decoder/Driver*	16-SOIC	.77	.62	.46
HCF4056M013TR	497-1132-2-ND	BCD-to-7 Segment Decoder/Driver*	16-SOIC	605.00/2,500		
HCF4060BEY	497-1365-5-ND	14-Stage Ripple Carry Binary Counter/Divider and Oscillator	16-Dip	.65	.47	.36
HCF4060M013TR	497-1133-1-ND	14-Stage Ripple Carry Binary Counter/Divider and Oscillator	16-SOIC	.60	.44	.33
HCF4060M013TR	497-1133-2-ND	14-Stage Ripple Carry Binary Counter/Divider and Oscillator	16-SOIC	450.00/2,500		
HCF4066BEY	497-1366-5-ND	Quad Bilateral Switch for Transmission or Multiplexing of Analog or Digital Signals	14-Dip	.55	.34	.26
HCF4066M013TR	497-1134-1-ND	Quad Bilateral Switch for Transmission or Multiplexing of Analog or Digital Signals	14-SOIC	.49	.38	.23
HCF4067M013TR	497-1135-1-ND	Analog Single 16-Ch. Mux/Demux	24-SOIC	1.71	1.43	1.20
HCF4067M013TR	497-1135-2-ND	Analog Single 16-Ch. Mux/Demux	24-SOIC	770.00/1,000		
HCF4069UBEY	497-1367-5-ND	Hex Inverter	14-Dip	.48	.38	.29
HCF4069UM013TR	497-1136-1-ND	Hex Inverter	14-SOIC	.49	.38	.23
HCF4069UM013TR	497-1136-2-ND	Hex Inverter	14-SOIC	320.00/2,500		
HCF4070BEY	497-1368-5-ND	Quad Exclusive OR Gate	14-Dip	.48	.35	.26
HCF4070M013TR	497-1137-1-ND	Quad Exclusive OR Gate	14-SOIC	.55	.34	.26
HCF4070M013TR	497-1137-2-ND	Quad Exclusive OR Gate	14-SOIC	362.50/2,500		
HCF4071BEY	497-1369-5-ND	Quad 2-Input OR Gate	14-Dip	.48	.38	.29
HCF4071M013TR	497-1138-1-ND	Quad 2-Input OR Gate	14-SOIC	.52	.40	.29
HCF4071M013TR	497-1138-2-ND	Quad 2-Input OR Gate	14-SOIC	340.00/2,500		
HCF4073BEY	497-1370-5-ND	Triple 3-Input AND Gate	14-Dip	.65	.52	.39
HCF4073M013TR	497-1139-1-ND	Triple 3-Input AND Gate	14-SOIC	.46	.35	.26
HCF4073M013TR	497-1139-2-ND	Triple 3-Input AND Gate	14-SOIC	297.50/2,500		
HCF4081BEY	497-1371-5-ND	Quad 2-Input AND Gate	14-Dip	.48	.38	.29
HCF4081M013TR	497-1140-1-ND	Quad 2-Input AND Gate*	14-SOIC	.52	.40	.29
HCF4081M013TR	497-1140-2-ND	Quad 2-Input AND Gate*	14-SOIC	340.00/2,500		
HCF4093BEY	497-1372-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.48	.38	.29
HCF4094BEY	497-1373-5-ND	8-Stage Shift and Store Bus Register	16-Dip	.48	.38	.29
HCF4094M013TR	497-1142-1-ND	8-Stage Shift and Store Bus Register*	16-SOIC	.55	.34	.26
HCF4094M013TR	497-1142-2-ND	8-Stage Shift and Store Bus Register*	16-SOIC	362.50/2,500		
HCF4099BEY	497-1374-5-ND	8-Bit Addressable Latch	16-Dip	.72	.58	.44
HCF4099M013TR	497-1143-1-ND	8-Bit Addressable Latch*	16-SOIC	.65	.52	.36
HCF4099M013TR	497-1143-2-ND	8-Bit Addressable Latch*	16-SOIC	487.50/2,500		
HCF4511BEY	497-1375-5-ND	BCD-to-7 Seg. Latch/Decoder/Driver*	16-Dip	.72	.58	.44
HCF4511M013TR	497-1144-1-ND	BCD-to-7 Seg. Latch/Decoder/Driver	16-SOIC	.60	.48	.36
HCF4511M013TR	497-1144-2-ND	BCD-to-7 Seg. Latch/Decoder/Driver	16-SOIC	450.00/2,500		
HCF4520BEY	497-1376-5-ND	Dual Binary Up Counter	16-Dip	.68	.54	.41
HCF4520M013TR	497-1145-1-ND	Dual Binary Up Counter*	16-SOIC	1.09	.95	.73
HCF4520M013TR	497-1145-2-ND	Dual Binary Up Counter*	16-SOIC	965.00/2,500		
HCF4536BEY	497-1377-5-ND	Programmable Timer	16-Dip	.72	.58	.44
HCF4538BEY	497-1378-5-ND	Dual Monostable Multivibrator	16-Dip	.65	.52	.36
HCF4538M013TR	497-1146-1-ND	Dual Monostable Multivibrator*	16-SOIC	.48	.35	.26
HCF4538M013TR	497-1146-2-ND	Dual Monostable Multivibrator*	16-SOIC	357.50/2,500		
HCF4541BEY	497-1379-5-ND	Programmable Timer	14-Dip	.55	.44	.33
HCF4541M013TR	497-1147-1-ND	Programmable Timer	14-SOIC	.55	.44	.33
HCF4541M013TR	497-1147-2-ND	Programmable Timer	14-SOIC	412.50/2,500		
HCF4555BEY	497-1380-5-ND	Dual Binary to 1-of-4 Decoder/Demux	16-Dip	.77	.62	.46
HCF4556M013TR	497-4040-1-ND	Dual Binary to 1-of-4 Decoder/Demux*	16-SOIC	.50	.40	.30
HCF4556M013TR	497-4040-2-ND	Dual Binary to 1-of-4 Decoder/Demux*	16-SOIC	375.00/2,500		
HCF40103BEY	497-1341-5-ND	8-Stage Presettable Sync. 8-Bit Binary Down Counter	16-Dip	.98	.85	.65
HCF40106BEY	497-1342-5-ND	Hex Schmitt Trigger*	14-Dip	.45	.36	.27
HCF40106M013TR	497-1111-1-ND	Hex Schmitt Trigger*	14-SOIC	.48	.35	.26
HCF40106M013TR	497-1111-2-ND	Hex Schmitt Trigger*	14-SOIC	357.50/2,500		
HCF40107BEY	497-1343-5-ND	Dual 2-Input NAND Buffer/Driver*	8-Dip	.50	.40	.30
HCF40107M013TR	497-1112-1-ND	Dual 2-Input NAND Buffer/Driver	8-SOIC	.72	.58	.44
HCF40107M013TR	497-1112-2-ND	Dual 2-Input NAND Buffer/Driver	8-SOIC	570.00/2,500		
HCF40109BEY	497-1344-5-ND	Quad Low-to-High Volt. Level Shifter	16-Dip	.77	.62	.46
HCF40109M013TR	497-1113-1-ND	Quad Low-to-High Volt. Level Shifter*	16-SOIC	.62	.38	.29
HCF40109M013TR	497-1113-2-ND	Quad Low-to-High Volt. Level Shifter*	16-SOIC	405.00/2,500		
M74HC00B1R	497-1745-5-ND	Quad 2-Input NAND Gate*	14-Dip	.48	.38	.29
M74HC00RM13TR	497-1746-1-ND	Quad 2-Input NAND Gate	14-SOIC	.49	.30	.23
M74HC00RM13TR	497-1746-2-ND	Quad 2-Input NAND Gate	14-SOIC	320.00/2,500		
M74HC02B1R	497-1747-5-ND	Quad 2-Input NOR Gate	14-Dip	.48	.38	.29
M74HC02RM13TR	497-1748-1-ND	Quad 2-Input NOR Gate	14-SOIC	.49	.30	.23
M74HC02RM13TR	497-1748-2-ND	Quad 2-Input NOR Gate	14-SOIC	320.00/2,500		
M74HC03B1R	497-1749-5-ND	Quad 2-Input Open Drain NAND Gate*	14-Dip	.48	.38	.29
M74HC03RM13TR	497-1750-1-ND	Quad 2-Input Open Drain NAND Gate	14-SOIC	.52	.40	.29
M74HC04B1R	497-1751-5-ND	Hex Inverter*	14-Dip	.48	.38	.29
M74HC04RM13TR	497-1752-1-ND	Hex Inverter*	14-SOIC	.49	.30	.23
M74HC04RM13TR	497-1752-2-ND	Hex Inverter*	14-SOIC	320.00/2,500		
M74HC05B1R	497-1753-5-ND	Hex Inverter, Open Drain*	14-Dip	.55	.44	.33
M74HC05RM13TR	497-1754-1-ND	Hex Inverter, Open Drain	14-SOIC	.52	.40	.29
M74HC05RM13TR	497-1754-2-ND	Hex Inverter, Open Drain	14-SOIC	340.00/2,500		
M74HC08B1R	497-1755-5-ND	Quad 2-Input AND Gate*	14-Dip	.48	.38	.29
M74HC08RM13TR	497-1756-1-ND	Quad 2-Input AND Gate	14-SOIC	.49	.30	.23
M74HC10B1R	497-1759-5-ND	Triple 3-Input NAND Gate	14-Dip	.48	.35	.26
M74HC10RM13TR	497-1760-1-ND	Triple 3-Input NAND Gate	14-SOIC	.52	.40	.29
M74HC10RM13TR	497-1760-2-ND	Triple 3-Input NAND Gate	14-SOIC	340.00/2,500		
M74HC11B1R	497-1761-5-ND	Triple 3-Input AND Gate*	14-Dip	.54	.44	.33
M74HC11RM13TR	497-1762-1-ND	Triple 3-Input AND Gate	14-SOIC	.52	.40	.29
M74HC14B1R	497-1777-5-ND	Hex Schmitt Inverter*	14-Dip	.48	.38	.29
M74HC14RM13TR	497-1778-1-ND	Hex Schmitt Inverter*	14-SOIC	.49	.30	.23
M74HC14RM13TR	497-1778-2-ND	Hex Schmitt Inverter*	14-SOIC	320.00/2,500		
M74HC20B1R	497-1795-5-ND	Dual 4-Input NAND Gate*	14-Dip	.55	.44	.33
M74HC20RM13TR	497-1796-1-ND	Dual 4-Input NAND Gate	14-SOIC	.49	.30	.23
M74HC20RM13TR	497-1796-2-ND	Dual 4-Input NAND Gate	14-SOIC	320.00/2,500		
M74HC32B1R	497-1819-5-ND	Quad 2-Input OR Gate*	14-Dip	.48	.38	.29
M74HC32RM13TR	497-1820-1-ND	Quad 2-Input OR Gate*	14-SOIC	.49	.30	.23
M74HC32RM13TR	497-1820-2-ND	Quad 2-Input OR Gate*	14-SOIC	320.00/2,500		
M74HC42B1R	497-1858-5-ND	BCD-to-Decimal Decoder*	16-Dip	.86	.69	.52
M74HC42RM13TR	497-1859-1-ND	BCD-to-Decimal Decoder*	16-SOIC	.98	.85	.65
M74HC42RM13TR	497-1859-2-ND	BCD-to-Decimal Decoder*	16-SOIC	865.00/2,500		
M74HC51B1R	497-1870-5-ND	Dual 2 Wide 2-In. AND/OR Invert Gate	14-Dip	.63	.51	.38

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
M74HC51RM13TR	497-1871-1-ND	Dual 2 Wide 2-In. AND/OR Invert Gate	14-SOIC	.55	.34	.26
M74HC73RM13TR	497-1884-1-ND	Dual J-K F/F with Preset and Clear	14-SOIC	.50	.40	.30
M74HC73RM13TR	497-1884-2-ND	Dual J-K F/F with Preset and Clear	14-SOIC	375.00/2,500		
M74HC74B1R	497-1885-5-ND	Dual D-Type F/F with Preset and Clear*	14-Dip	.48	.38	.29
M74HC74RM13TR	497-1886-1-ND	Dual D-Type F/F with Preset and Clear	14-SOIC	.55	.34	.26
M74HC85B1R	497-1887-5-ND	4-Bit Magnitude Comparator*	16-Dip	.60	.44	.33
M74HC85RM13TR	497-1888-1-ND	4-Bit Magnitude Comparator	16-SOIC	.55	.44	.33
M74HC86B1R	497-1889-5-ND	Quad Exclusive OR Gate*	14-Dip	.65	.47	.36
M74HC86M1R	497-1890-5-ND	Quad Exclusive OR Gate	14-SOIC	.90	.72	.54
M74HC123B1R	497-1763-5-ND	Dual Retriggerable Mono Multivibrator	16-Dip	.65	.47	.36
M74HC123RM13TR	497-1764-1-ND	Dual Retriggerable Mono Multivibrator*	16-SOIC	.60	.44	.33
M74HC123RM13TR	497-1764-2-ND	Dual Retriggerable Mono Multivibrator*	16-SOIC	450.00/2,500		
M74HC125B1R	497-1765-5-ND	Tri-State Quad Bus Buffer	14-Dip	.50	.40	.30
M74HC125RM13TR	497-1766-1-ND	Tri-State Quad Bus Buffer*	14-SOIC	.49	.30	.23
M74HC125RM13TR	497-1766-2-ND	Tri-State Quad Bus Buffer*	14-SOIC	320.00/2,500		
M74HC132B1R	497-1767-5-ND	Quad 2-Input Schmitt NAND Gate*	14-Dip	.55	.40	.30
M74HC132RM13TR	497-1768-1-ND	Quad 2-Input Schmitt NAND Gate	14-SOIC	.58	.46	.35
M74HC132RM13TR	497-1768-2-ND	Quad 2-Input Schmitt NAND Gate	14-SOIC	432.50/2,500		
M74HC133B1R	497-1769-5-ND	13-Input NAND Gate*	16-Dip	.54	.44	.33
M74HC133RM13TR	497-1770-1-ND	13-Input NAND Gate*	16-SOIC	.59	.47	.36
M74HC133RM13TR	497-1770-2-ND	13-Input NAND Gate*	16-SOIC	462.50/2,500		
M74HC138B1R	497-1771-5-ND	3-to-8 Line Decoder, Inverting*	16-Dip	.60	.44	.33
M74HC138RM13TR	497-1772-1-ND	3-to-8 Line Decoder, Inverting	16-SOIC	.58	.46	.35
M74HC138RM13TR	497-1772-2-ND	3-to-8 Line Decoder, Inverting	16-SOIC	432.50/2,500		
M74HC139B1R	497-1773-5-ND	Dual 2-to-4 Decoder/Demux*	16-Dip	.59	.47	.36
M74HC139RM13TR	497-1774-1-ND	Dual 2-to-4 Decoder/Demux	16-SOIC	.50	.40	.30
M74HC139RM13TR	497-1774-2-ND	Dual 2-to-4 Decoder/Demux	16-SOIC	375.00/2,500		
M74HC148RM13TR	497-1776-1-ND	8-to-3 Line Priority Encoder	16-SOIC	.50	.40	.30
M74HC148RM13TR	497-1776-2-ND	8-to-3 Line Priority Encoder	16-SOIC	375.00/2,500		
M74HC151B1R	497-1779-5-ND	8-Channel Multiplexer*	16-Dip	.54	.44	.33
M74HC151RM13TR	497-1780-1-ND	8-Channel Multiplexer*	16-SOIC	.55	.40	.30
M74HC151RM13TR	497-1780-2-ND	8-Channel Multiplexer*	16-SOIC	412.50/2,500		
M74HC153B1R	497-1781-5-ND	Dual 4-Channel Multiplexer	16-Dip	.60	.48	.36
M74HC153RM13TR	497-1782-1-ND	Dual 4-Channel Multiplexer	16-SOIC	.55	.44	.30
M74HC153RM13TR	497-1782-2-ND	Dual 4-Channel Multiplexer	16-SOIC	412.50/2,500		
M74HC155RM13TR	497-1784-1-ND	Dual 2-to-4 and 3-to-8 Line Decoder*	16-SOIC	.60	.48	.36
M74HC155RM13TR	497-1784-2-ND	Dual 2-to-4 and 3-to-8 Line Decoder*	16-SOIC	450.00/2,500		
M74HC157RM13TR	497-1786-1-ND	Quad 2-Channel Multiplexer	16-SOIC	.50	.40	.30
M74HC157RM13TR	497-1786-2-ND	Quad 2-Channel Multiplexer	16-SOIC	375.00/2,500		
M74HC161B1R	497-1787-5-ND	Sync. Presettable 4-Bit Counter	16-Dip	.65	.47	.36
M74HC161RM13TR	497-1788-1-ND	Sync. Presettable 4-Bit Counter*	16-SOIC	.50	.40	.30
M74HC161RM13TR	497-1788-2-ND	Sync. Presettable 4-Bit Counter*	16-SOIC	375.00/2,500		
M74HC164B1R	497-1789-5-ND	8-Bit SIPO Shift Register*	14-Dip	.60	.44	.33
M74HC165B1R	497-1790-5-ND	8-Bit PISO Shift Register	16-Dip	.60	.44	.33
M74HC166RM13TR	497-1791-1-ND	8-Bit PISO Shift Register	16-SOIC	.50	.40	.30
M74HC166RM13TR	497-1791-2-ND	8-Bit PISO Shift Register	16-SOIC	375.00/2,500		
M74HC174B1R	497-1792-5-ND	Hex D-Type Flip-Flop with Clear*	16-Dip	.55	.40	.30
M74HC174TTR	497-4274-1-ND	Hex D-Type Flip-Flop with Clear*	16-TSSOP	.60	.48	.36
M74HC174TTR	497-4274-2-ND	Hex D-Type Flip-Flop with Clear*	16-TSSOP	450.00/2,500		
M74HC175B1R	497-1793-5-ND	Quad D-Type Flip-Flop with Clear*	16-Dip	.68	.54	.41
M74HC175RM13TR	497-1794-1-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.50	.40	.30
M74HC221B1R	497-1797-5-ND	Dual Mono Multivibrator*	16-Dip	.72	.58	.44
M74HC221RM13TR	497-1798-1-ND	Dual Mono Multivibrator	16-SOIC	.68	.54	.41
M74HC221RM13TR	497-1798-2-ND	Dual Mono Multivibrator	16-SOIC	535.00/2,500		
M74HC238B1R	497-1799-5-ND	3-to-8 Line Decoder*	16-Dip	.77	.62	.46
M74HC238RM13TR	497-1800-1-ND	3-to-8 Line Decoder*	16-SOIC	.48	.35	.26
M74HC238RM13TR	497-1800-2-ND	3-to-8 Line Decoder*	16-SOIC	357.50/2,500		
M74HC240B1R	497-1801-5-ND	Tri-State Octal Bus Buffer, Inverted*	20-Dip	.60	.44	.33
M74HC240RM13TR	497-1802-1-ND	Tri-State Octal Bus Buffer, Inverted	20-SOIC	.55	.44	.30
M74HC240RM13TR	497-1802-2-ND	Tri-State Octal Bus Buffer, Inverted	20-SOIC	176.00/1,000		
M74HC240TTR	497-6041-1-ND	Tri-State Octal Bus Buffer, Inverted*	20-TSSOP	.68	.54	.41
M74HC240TTR	497-6041-2-ND	Tri-State Octal Bus Buffer, Inverted*	20-TSSOP	535.00/2,500		
M74HC244B1R	497-1803-5-ND	Tri-State Octal Bus Buffer, Non-Inverted*	20-Dip	.60	.44	.33
M74HC244RM13TR	497-1804-1-ND	Tri-State Octal Bus Buffer, Non-Inverted	20-SOIC	.68	.54	.38
M74HC244RM13TR	497-1804-2-ND	Tri-State Octal Bus Buffer, Non-Inverted	20-SOIC	233.00/1,000		
M74HC245B1R	497-1805-5-ND	Tri-State Octal Bus Transceiver, Non-Inverted*	20-Dip	.70	.51	.38
M74HC245RM13TR	497-1806-1-ND	Tri-State Octal Bus Transceiver, Non-Inverted	20-SOIC	.55	.44	.30
M74HC251B1R	497-1807-5-ND	Tri-State 8-Channel Mux*	16-Dip	.55	.44	.30
M74HC251RM13TR	497-1808-1-ND	Tri-State 8-Channel Mux	16-SOIC	.55	.44	.30
M74HC253RM13TR	497-1809-1-ND	Tri-State Dual 4-Channel Mux	16-SOIC	.50	.40	.30
M74HC257B1R	497-1810-5-ND	Tri-State Quad 2-Channel Mux*	16-Dip	.68	.54	.41
M74HC257RM13TR	497-1811-1-ND	Tri-State Quad 2-Channel Mux	16-SOIC	.48	.35	.26
M74HC259B1R	497-1812-5-ND	8-Bit Addressable Latch	16-Dip	1.05	.91	.70
M74HC273B1R	497-1813-5-ND	Octal D-Type Flip-Flop with Clear*	20-Dip	.72	.58	.44
M74HC273RM13TR	497-1814-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.55	.44	.33
M74HC280B1R	497-1815-5-ND	9-Bit Parity Generator	14-Dip	1.05	.91	.84
M74HC280RM13TR	497-1816-1-ND	9-Bit Parity Generator*	14-SOIC	.50	.40	.30
M74HC280RM13TR	497-1816-2-ND	9-Bit Parity Generator*	14-SOIC	375.00/2,500		
M74HC299B1R	497-1817-5-ND	8-Bit PIPO Shift Register with Async. Clear	20-Dip	.68	.54	.41
M74HC299RM13TR	497-1818-1-ND	8-Bit PIPO Shift Register with Async. Clear	20-SOIC	.90	.72	.54
M74HC365B1R	497-1821-5-ND	Tri-State Hex Bus Buffer*	16-Dip	.63	.51	.38
M74HC365RM13TR	497-1822-1-ND	Tri-State Hex Bus Buffer*	16-SOIC	.52	.40	.29
M74HC365RM13TR	497-1822-2-ND	Tri-State Hex Bus Buffer*	16-SOIC	340.00/2,500		
M74HC367M1R	497-1823-5-ND	Tri-State Hex Bus Buffer	16-SOIC	.99	.80	.60
M74HC367TTR	497-1824-1-ND	Tri-State Hex Bus Buffer	16-TSSOP	.75	.46	.35
M74HC368RM13TR	497-1826-1-ND	Tri-State Hex Bus Buffer*	16-SOIC	.52	.40	.29
M74HC368RM13TR	497-1826-2-ND	Tri-State Hex Bus Buffer*	16-SOIC	340.00/2,500		
M74HC373B1R	497-1827-5-ND	Tri-State Octal D-Type Latch	20-Dip	.68	.54	.41
M74HC373RM13TR	497-1828-1-ND	Tri-State Octal D-Type Latch*	20-SOIC	.55	.40	.30
M74HC373RM13TR	497-1828-2-ND	Tri-State Octal D-Type Latch*	20-SOIC	176.00/1,000		
M74HC374B1R	497-1829-5-ND	Tri-State Octal D-Type Flip-Flop*	20-Dip	.60	.44	.33

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
M74HC374RM13TR	497-1830-1-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	.68	.54	.41
M74HC374RM13TR	497-1830-2-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	233.00/1,000		
M74HC377RM13TR	497-1832-1-ND	Octal D-Type Flip-Flop	20-SOIC	.60	.48	.33
M74HC393B1R	497-1833-5-ND	Dual Binary Counter*	14-Dip	.72	.58	.44
M74HC393RM13TR	497-1834-1-ND	Dual Binary Counter	14-SOIC	.50	.40	.30
M74HC393RM13TR	497-1834-2-ND	Dual Binary Counter	14-SOIC	375.00/2,500		
M74HC541B1R	497-1873-5-ND	Tri-State Octal Bus Buffer	20-Dip	.72	.58	.44
M74HC541RM13TR	497-1874-1-ND	Tri-State Octal Bus Buffer	20-SOIC	1.31	1.14	.88
M74HC541RM13TR	497-1874-2-ND	Tri-State Octal Bus Buffer	20-SOIC	508.00/1,000		
M74HC573B1R	497-1875-5-ND	Tri-State Octal D-Type Latch	20-Dip	.68	.54	.41
M74HC573RM13TR	497-1876-1-ND	Tri-State Octal D-Type Latch*	20-SOIC	.55	.40	.30
M74HC573RM13TR	497-1876-2-ND	Tri-State Octal D-Type Latch*	20-SOIC	176.00/1,000		
M74HC574B1R	497-1877-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.60	.44	.33
M74HC574RM13TR	497-1878-1-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	.60	.44	.33
M74HC574RM13TR	497-1878-2-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	192.00/1,000		
M74HC590B1R	497-1879-5-ND	Tri-State 8-Binary Counter Register*	16-Dip	.63	.51	.38
M74HC595B1R	497-2986-5-ND	Tri-State 8-Bit Shift Register*	16-Dip	.68	.54	.41
M74HC595RM13TR	497-1880-1-ND	Tri-State 8-Bit Shift Register*	16-SOIC	.55	.44	.30
M74HC595RM13TR	497-1880-2-ND	Tri-State 8-Bit Shift Register*	16-SOIC	412.50/2,500		
M74HC597RM13TR	497-1881-1-ND	8-Bit Latch/Shift Register*	16-SOIC	.55	.40	.30
M74HC597RM13TR	497-1881-2-ND	8-Bit Latch/Shift Register*	16-SOIC	412.50/2,500		
M74HC688RM13TR	497-1882-1-ND	8-Bit Equality Comparator*	20-SOIC	.75	.54	.41
M74HC688RM13TR	497-1882-2-ND	8-Bit Equality Comparator*	20-SOIC	240.00/1,000		
M74HC688TTR	497-4275-1-ND	8-Bit Equality Comparator*	20-TSSOP	.72	.58	.43
M74HC688TTR	497-4275-2-ND	8-Bit Equality Comparator*	20-TSSOP	570.00/2,500		
M74HC4017B1R	497-1835-5-ND	Decade Counter/Divider*	16-Dip	.72	.58	.44
M74HC4017RM13TR	497-1836-1-ND	Decade Counter/Divider	16-SOIC	.65	.47	.36
M74HC4017RM13TR	497-1836-2-ND	Decade Counter/Divider	16-SOIC	487.50/2,500		
M74HC4020RM13TR	497-1837-1-ND	14-Stage Binary Counter*	16-SOIC	.50	.40	.30
M74HC4020RM13TR	497-1837-2-ND	14-Stage Binary Counter*	16-SOIC	375.00/2,500		
M74HC4024B1R	497-1838-5-ND	7-Stage Binary Counter	14-Dip	.68	.54	.41
M74HC4024RM13TR	497-1839-1-ND	7-Stage Binary Counter	14-SOIC	.68	.54	.41
M74HC4040B1R	497-1840-5-ND	12-Stage Binary Counter*	16-Dip	.68	.54	.41
M74HC4049B1R	497-1841-5-ND	Hex Buffer/Converter*	16-Dip	.86	.69	.52
M74HC4049RM13TR	497-1842-1-ND	Hex Buffer/Converter	16-SOIC	.52	.40	.29
M74HC4050B1R	497-1843-5-ND	Hex Buffer/Converter*	16-Dip	1.58	1.37	1.05
M74HC4050RM13TR	497-1844-1-ND	Hex Buffer/Converter*	16-SOIC	.60	.44	.33
M74HC4050RM13TR	497-1844-2-ND	Hex Buffer/Converter*	16-SOIC	450.00/2,500		
M74HC4051B1R	497-1845-5-ND	Single 8-Channel Analog Mux/Demux	16-Dip	.77	.62	.46
M74HC4051RM13TR	497-1846-1-ND	Single 8-Ch. Analog Mux/Demux*	16-SOIC	.68	.54	.41
M74HC4051RM13TR	497-1846-2-ND	Single 8-Ch. Analog Mux/Demux*	16-SOIC	535.00/2,500		
M74HC4052B1R	497-1847-5-ND	Dual 4-Channel Analog Mux/Demux*	16-Dip	.63	.51	.38
M74HC4052RM13TR	497-1848-1-ND	Dual 4-Channel Analog Mux/Demux*	16-SOIC	.48	.35	.26
M74HC4052RM13TR	497-1848-2-ND	Dual 4-Channel Analog Mux/Demux*	16-SOIC	357.50/2,500		
M74HC4053B1R	497-1849-5-ND	Triple 2-Channel Analog Mux/Demux*	16-Dip	.55	.40	.30
M74HC4053RM13TR	497-1850-1-ND	Triple 2-Ch. Analog Mux/Demux*	16-SOIC	.60	.44	.33
M74HC4053RM13TR	497-1850-2-ND	Triple 2-Ch. Analog Mux/Demux*	16-SOIC	450.00/2,500		
M74HC4060RM13TR	497-1852-1-ND	14-Stage Binary Counter/Oscillator	16-SOIC	.55	.40	.30
M74HC4066B1R	497-1853-5-ND	Quad Bilateral Switch*	14-Dip	.48	.38	.29
M74HC4066RM13TR	497-1854-1-ND	Quad Bilateral Switch	14-SOIC	.48	.38	.29
M74HC4075B1R	497-1855-5-ND	Triple 3-Input OR Gate*	14-Dip	1.14	1.00	.77
M74HC4075RM13TR	497-1856-1-ND	Triple 3-Input OR Gate	14-SOIC	.68	.54	.41
M74HC4094B1R	497-2985-5-ND	Tri-St. 8-Bit SIPO Shift Latch Register*	16-Dip	.68	.54	.41
M74HC4094RM13TR	497-1857-1-ND	Tri-St. 8-Bit SIPO Shift Latch Register*	16-SOIC	.50	.40	.30
M74HC4094RM13TR	497-1857-2-ND	Tri-St. 8-Bit SIPO Shift Latch Register*	16-SOIC	375.00/2,500		
M74HC4316B1R	497-1860-5-ND	Quad Bilateral Switch	16-Dip	.70	.56	.42
M74HC4316RM13TR	497-1861-1-ND	Quad Bilateral Switch*	16-SOIC	.68	.54	.41
M74HC4316RM13TR	497-1861-2-ND	Quad Bilateral Switch*	16-SOIC	535.00/2,500		
M74HC4520B1R	497-1862-5-ND	Dual 4-Bit Binary Counter	16-Dip	.72	.58	.44
M74HC4520RM13TR	497-1863-1-ND	Dual 4-Bit Binary Counter*	16-SOP	.68	.54	.41
M74HC4520RM13TR	497-1863-2-ND	Dual 4-Bit Binary Counter*	16-SOP	535.00/2,500		
M74HC4538B1R	497-1864-5-ND	Dual Retriggerable Mono Multivibrator*	16-Dip	.72	.58	.44
M74HC4538RM13TR	497-1865-1-ND	Dual Retriggerable Mono Multivibrator*	16-SOIC	.65	.47	.36
M74HC4538RM13TR	497-1865-2-ND	Dual Retriggerable Mono Multivibrator*	16-SOIC	487.50/2,500		
M74HC4543B1R	497-1866-5-ND	BCD-to-7 Segment Latch/Decoder/ LCD Driver*	16-Dip	.65	.47	.36
M74HC4543RM13TR	497-1867-1-ND	BCD-to-7 Segment Latch/Decoder/ LCD Driver	16-SOIC	1.31	1.14	.88
M74HC4543RM13TR	497-1867-2-ND	BCD-to-7 Segment Latch/Decoder/ LCD Driver	16-SOIC	1163.75/2,500		
M74HCT00B1R	497-1891-5-ND	Quad 2-Input NAND Gate	14-Dip	.48	.35	.26
M74HCT02RM13TR	497-1892-1-ND	Quad 2-Input NOR Gate	14-SOIC	.52	.40	.29
M74HCT04B1R	497-1893-5-ND	Hex Inverter*	14-Dip	.60	.48	.36
M74HCT04RM13TR	497-1894-1-ND	Hex Inverter	14-SOIC	.52	.40	.29
M74HCT04RM13TR	497-1894-2-ND	Hex Inverter	14-SOIC	340.00/2,500		
M74HCT08B1R	497-1895-5-ND	Quad 2-Input AND Gate*	14-Dip	.50	.40	.30
M74HCT08RM13TR	497-1896-1-ND	Quad 2-Input AND Gate	14-SOIC	.49	.30	.23
M74HCT08RM13TR	497-1896-2-ND	Quad 2-Input AND Gate	14-SOIC	300.00/2,500		
M74HCT14B1R	497-1901-5-ND	Hex Schmitt Inverter	14-Dip	.50	.40	.30
M74HCT14RM13TR	497-1902-1-ND	Hex Schmitt Inverter	14-SOIC	.50	.40	.30
M74HCT14RM13TR	497-1902-2-ND	Hex Schmitt Inverter	14-SOIC	375.00/2,500		
M74HCT14TTR	497-4276-1-ND	Hex Schmitt Inverter	14-TSSOP	.65	.52	.39
M74HCT14TTR	497-4276-2-ND	Hex Schmitt Inverter	14-TSSOP	487.50/2,500		
M74HCT32B1R	497-1909-5-ND	Quad 2-Input OR Gate*	14-Dip	.65	.52	.39
M74HCT32RM13TR	497-1910-1-ND	Quad 2-Input OR Gate	14-SOIC	.52	.40	.29
M74HCT74B1R	497-1922-5-ND	Dual D-Type F/F with Preset and Clear*	14-Dip	.50	.40	.30
M74HCT74RM13TR	497-1923-1-ND	Dual D-Type F/F with Preset and Clear	14-SOIC	.49	.30	.23
M74HCT125B1R	497-1897-5-ND	Tri-State Quad Bus Buffer	14-Dip	.55	.44	.33
M74HCT125RM13TR	497-1898-1-ND	Tri-State Quad Bus Buffer*	14-SOIC	.50	.40	.30
M74HCT125RM13TR	497-1898-2-ND	Tri-State Quad Bus Buffer*	14-SOIC	375.00/2,500		
M74HCT138RM13TR	497-1900-1-ND	3-to-8 Line Decoder	16-SOIC	.50	.40	.30
M74HCT174TTR	497-4277-1-ND	Hex D-Type Flip-Flop*	16-TSSOP	.70	.56	.42
M74HCT174TTR	497-4277-2-ND	Hex D-Type Flip-Flop*	16-TSSOP	525.00/2,500		
M74HCT244RM13TR	497-1904-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.52	.39
M74HCT244RM13TR	497-1904-2-ND	Tri-State Octal Bus Buffer	20-SOIC	208.00/1,000		
M74HCT245B1R	497-1905-5-ND	Tri-State Octal Bus Transceiver*	20-Dip	.77	.62	.46
M74HCT245RM13TR	497-1906-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.75	.54	.41
M74HCT245RM13TR	497-1906-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	240.00/1,000		
M74HCT273B1R	497-1907-5-ND	Octal D-Type Flip-Flop with Clear*	20-Dip	.60	.44	.33
M74HCT273RM13TR	497-1908-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.55	.44	.30
M74HCT273RM13TR	497-1908-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	176.00/1,000		
M74HCT367RM13TR	497-4278-1-ND	Tri-State Hex Bus Buffer	16-SOP	.50	.40	.30
M74HCT373TTR	497-4279-1-ND	Tri-State Octal D-Type Latch*	20-TSSOP	.70	.56	.42
M74HCT373TTR	497-4279-2-ND	Tri-State Octal D-Type Latch*	20-TSSOP	525.00/2,500		
M74HCT374B1R	497-1911-5-ND	Tri-State Octal D-Type Flip-Flop*	20-Dip	.63	.51	.38
M74HCT374RM13TR	497-1912-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.44	.33
M74HCT540RM13TR	497-1915-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.58	.46	.35
M74HCT540RM13TR	497-1915-2-ND	Tri-State Octal Bus Buffer	20-SOIC	184.00/1,000		
M74HCT541B1R	497-1916-5-ND	Tri-State Octal Bus Buffer*	20-Dip	.60	.44	.33
M74HCT573RM13TR	497-1918-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.65	.47	.36
M74HCT573RM13TR	497-1918-2-ND	Tri-State Octal D-Type Latch	20-SOIC	195.00/1,000		
M74HCT574B1R	497-1919-5-ND	Tri-State Octal D-Type Flip-Flop*	20-Dip	.72	.58	.44
M74HCT574RM13TR	497-1920-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.65	.52	.36
M74HCT574RM13TR	497-1920-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	208.00/1,000		
M74HCT640RM13TR	497-1921-1-ND	Tri-State Octal Bus Transceiver*	20-SOIC	.75	.54	.41
M74HCT640RM13TR	497-1921-2-ND	Tri-State Octal Bus Transceiver*	20-SOIC	240.00/1,000		
M74HCU04B1R	497-1924-5-ND	Hex Inverter*	14-Dip	.55	.44	.33
M74HCU04RM13TR	497-1925-1-ND	Hex Inverter	14-SOIC	.49	.30	.23
ST2G3236QTR	497-5950-1-ND	2-Bit Dual Supply Bus Transceiver Level Translator*	10-QFN	2.07	1.73	1.45
ST2G3236QTR	497-5950-2-ND	2-Bit Dual Supply Bus Transceiver Level Translator*	10-QFN	2691.00/3,000		
ST2L01K5	497-2069-5-ND	Dual Voltage Regulator	SPAK-5	2.31	1.93	1.62
ST3L01K7R	497-4313-1-ND	2.6V, 3.3V, 8V, Triple Voltage Reg.	7-SPAK	3.24	2.82	2.10
ST3L01K7R	497-4313-2-ND	2.6V, 3.3V, 8V, Triple Voltage Reg.	7-SPAK	3192.00/2,000		
ST4G3234BJR	497-4622-1-ND	4-Bit Dual Supply Bus Buffer Level Translator	Flip Chip	1.31	1.14	.88
ST4G3234BJR	497-4622-2-ND	4-Bit Dual Supply Bus Buffer Level Translator	Flip Chip	1864.00/4,000		
ST4G3235BJR	497-4623-1-ND	4-Bit Dual Supply Bus Buffer Level Translator	Flip Chip	1.31	1.14	.88
ST4G3235BJR	497-4623-2-ND	4-Bit Dual Supply Bus Buffer Level Translator	Flip Chip	1864.00/4,000		
ST2042BDR	497-4306-1-ND	Current Limited Power Distribution Switch	8-SOIC	1.54	1.34	1.03
ST2042BDR	497-4306-2-ND	Current Limited Power Distribution Switch	8-SOIC	1362.50/2,500		
ST2044BD	497-4308-5-ND	Current Limited Power Distribution Switch	16-SOIC	3.38	2.94	2.19
ST2044BDR	497-4308-1-ND	Current Limited Power Distribution Switch	16-SOIC	1.54	1.34	1.03
ST2044BDR	497-4308-2-ND	Current Limited Power Distribution Switch	16-SOIC	1362.50/2,500		
ST2052BDR	497-4309-1-ND	Current Limited Power Distribution Switch	8-SOIC	1.54	1.34	1.03
ST2052BDR	497-4309-2-ND	Current Limited Power Distribution Switch	8-SOIC	1362.50/2,500		
ST2054BDR	497-4311-1-ND	Current Limited Power Distribution Switch	16-SOIC	1.54	1.34	1.03
ST2054BDR	497-4311-2-ND	Current Limited Power Distribution Switch	16-SOIC	1362.50/2,500		
ST2378ETTR	497-3730-1-ND	8-Bit Dual Supply 1.71V-5.5V Level Translator, ESD Protection	20-TSSOP	2.88	2.40	2.02
ST2378ETTR	497-3730-2-ND	8-Bit Dual Supply 1.71V-5.5V Level Translator, ESD Protection	20-TSSOP	3120.00/2,500		
STG719STR	497-3738-1-ND	Low Voltage 4-Ohm SPDT Switch	SOT-23-6	1.01	.88	.68
STG719STR	497-3738-2-ND	Low Voltage 4-Ohm SPDT Switch	SOT-23-6	1077.00/3,000		
STG3155DTR	497-6175-1-ND	Low Volt. Single SPDT Switch*	6-DFN	.94	.82	.63
STG3155DTR	497-6175-2-ND	Low Volt. Single SPDT Switch*	6-DFN	1595.00/5,000		
STG3157CTR	497-2144-1-ND	LV, SPDT, Low On Resistance	SOT-323-6	1.01	.88	.68
STG3157CTR	497-2144-2-ND	LV, SPDT, Low On Resistance	SOT-323-6	1077.00/3,000		
STG3482QTR	497-5966-1-ND	Low Voltage, Dual SP4T Switch*	16-QFN	2.01	1.68	1.41
STG3482QTR	497-5966-2-ND	Low Voltage, Dual SP4T Switch*	16-QFN	2613.00/3,000		
STG3680QTR	497-4347-1-ND	LV 0.5/0.8-Ohm Dual SPDT Switch	16-QFN	1.31	1.14	.88
STG3680QTR	497-4347-2-ND	LV 0.5/0.8-Ohm Dual SPDT Switch	16-QFN	1396.50/3,000		
STG3682QTR	497-5967-1-ND	Low Voltage, High Bandwidth Dual SPDT Switch*	10-QFN	2.94	2.57	1.91
STG3684QTR	497-3021-1-ND	Low Voltage, Dual SPDT Switch	16-QFN	1.77	1.48	1.24
STG3684QTR	497-3021-2-ND	Low Voltage, Dual SPDT Switch	16-QFN	2301.00/3,000		
STG3690QTR	497-4348-1-ND	Low Volt. 5-Ohm Quad SPDT Switch	16-QFN	1.74	1.45	1.22
STG3690QTR	497-4348-2-ND	Low Volt. 5-Ohm Quad SPDT Switch	16-QFN	2262.00/3,000		
STG3693QTR	497-5968-1-ND	Low Voltage, High Bandwidth Dual SPDT Switch*	16-QFN	2.01	1.68	1.41
STG3693QTR	497-5968-2-ND	Low Voltage, High Bandwidth Dual SPDT Switch*	16-QFN	2613.00/3,000		
STG3699AQTR	497-4524-1-ND	Low Volt. 0.5-Ohm Quad SPDT Switch	16-QFN	2.97	2.59	1.93
STG3699AQTR	497-4524-2-ND	Low Volt. 0.5-Ohm Quad SPDT Switch	16-QFN	4224.00/3,000		
STG3699AUTR	497-4792-1-ND	Low Voltage 0.5-Ohm Quad SPDT Switch	16-QFN	3.30	2.75	2.31
STG3699AUTR	497-4792-2-ND	Low Voltage 0.5-Ohm Quad SPDT Switch	16-QFN	4290.00/3,000		
STG3699QTR	497-3022-1-ND	Low Voltage Quad SPDT Switch	16-QFN	2.97	2.59	1.93
STG3699QTR	497-3022-2-ND	Low Voltage Quad SPDT Switch	16-QFN	4224.00/3,000		
STG3856QTR	497-6174-1-ND	Low Volt. Dual SP3T Switch*	12-QFN	1.80	1.56	1.20
STG3856QTR	497-6174-2-ND	Low Volt. Dual SP3T Switch*	12-QFN	1914.00/3,000		
STG5682QTR	497-6025-1-ND	Low Voltage Dual SPDT Switch*	16-QFN	1.80	1.50	1.26
STG5682QTR	497-6025-2-ND	Low Voltage Dual SPDT Switch*	16-QFN	2340.00/3,000		
STHDMI001ATTR	497-4948-1-ND	3.3V, High Bandwidth, 2-to-1 HDMI Switch	48-TSSOP	3.38	2.94	2.19
STHDMI001ATTR	497-4948-2-ND	3.3V, High Bandwidth, 2-to-1 HDMI Switch	48-TSSOP	3326.00/2,000		
STM86312	497-4363-ND	VFD Controller/Driver	44-PQFP	3.40	2.97	2.21
STMAV335TTR	497-6180-1-ND	SP3T Video Switch*	16-TSSOP	1.50	1.25	1.05
STMAV335TTR	497-6180-2-ND	SP3T Video Switch*	16-TSSOP	1625.00/2,500		
STMPE801QTR	497-6132-1-ND	8-Bit Port Expander*	16-QFN	1.50	1.25	1.05
STMPE801QTR	497-6132-2-ND	8-Bit Port Expander*	16-QFN	1950.00/3,000		
STMPE801MTR	497-6134-1-ND	8-Bit Port Expander*	16-SOIC	1.50	1.25	1.05
STMPE801MTR	497-6134-2-ND	8-Bit Port Expander*	16-SOIC	1625.00/2,500		
STMPE2401TBR	497-6133-1-ND	24-Bit Port Expander*	36-TFBGA	2.97	2.59	1.93

*** RoHS Compliant**

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ADVANCED LOGIC *(Continued)*
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STMPE2401TBR	497-6133-2-ND	24-Bit Port Expander*	36-TFBGA	4224.00/3,000		
STMUX1000LQTR	497-4667-1-ND	Gigabit LAN Analog Switch, 16-Bit to 8-Bit Mux	56-QFN	4.05	3.53	2.63
STMUX1000LQTR	497-4667-2-ND	Gigabit LAN Analog Switch, 16-Bit to 8-Bit Mux	56-QFN	4800.00/2,500		
STP08C596B1	497-3744-5-ND	8-Bit Constant Current LED Sink Driver*	16-Dip	1.68	1.40	1.18
STP08C596TTR	497-3870-1-ND	8-Bit Constant Current LED Sink Driver	16-TSSOP	1.68	1.40	1.18
STP08C596TTR	497-3870-2-ND	8-Bit Constant Current LED Sink Driver	16-TSSOP	1820.00/2,500		
STP08CDC596TTR	497-4756-1-ND	8-Bit Constant Current LED Sink Driver	16-TSSOP	1.95	1.63	1.37
STP08CDC596TTR	497-4756-2-ND	8-Bit Constant Current LED Sink Driver	16-TSSOP	2112.50/2,500		
STP08CL596B1	497-3871-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-Dip	1.68	1.40	1.18
STP08CL596MTR	497-3872-1-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-SOIC	1.68	1.40	1.18
STP08CL596MTR	497-3872-2-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-SOIC	1820.00/2,500		
STP08CL596TTR	497-3873-1-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-TSSOP	1.68	1.40	1.18
STP08CL596TTR	497-3873-2-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-TSSOP	1820.00/2,500		
STP08CP05B1	497-6267-5-ND	Low Voltage 8-Bit Shift Register*	16-Dip	2.22	1.85	1.56
STP08CP05TTR	497-6269-1-ND	Low Voltage 8-Bit Shift Register*	16-TSSOP	2.22	1.85	1.56
STP08CP05TTR	497-6269-2-ND	Low Voltage 8-Bit Shift Register*	16-TSSOP	4720.00/5,000		
STP08CP05XTTR	497-6270-1-ND	Low Voltage 8-Bit Shift Register*	16-TSSOP	2.28	1.90	1.60
STP08DP05B1	497-6271-5-ND	Low Voltage 8-Bit Constant Current LED Sink Driver*	16-Dip	1.68	1.40	1.18
STP08DP05MTR	497-6118-1-ND	Low Voltage 8-Bit Constant Current LED Sink Driver*	16-SOIC	1.68	1.40	1.18
STP08DP05MTR	497-6118-2-ND	Low Voltage 8-Bit Constant Current LED Sink Driver*	16-SOIC	1820.00/2,500		
STP08DP05TTR	497-6029-1-ND	Low Voltage 8-Bit Constant Current LED Sink Driver*	16-TSSOP	1.68	1.40	1.18
STP08DP05TTR	497-6029-2-ND	Low Voltage 8-Bit Constant Current LED Sink Driver*	16-TSSOP	1820.00/2,500		
STP08DP05XTTR	497-6119-1-ND	Low Voltage 8-Bit Constant Current LED Sink Driver*	16-TSSOP	1.74	1.45	1.22
STP08DP05XTTR	497-6119-2-ND	Low Voltage 8-Bit Constant Current LED Sink Driver*	16-TSSOP	1885.00/2,500		
STP16C596B1R	497-3874-ND	16-Bit Constant Current LED Sink Driver	24-Dip	2.52	2.10	1.77
STP16C596XTTR	497-4371-1-ND	16-Bit Constant Current LED Sink Driver	24-TSSOP	2.52	2.10	1.77
STP16CL596M	497-3878-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-SOIC	2.52	2.10	1.77
STP16CL596MTR	497-3878-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-SOIC	2.52	2.10	1.77
STP16CL596MTR	497-3878-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-SOIC	1134.00/1,000		
STP16CL596TTR	497-3879-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-TSSOP	2.52	2.10	1.77
STP16CL596XTTR	497-4529-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-TSSOP	2.52	2.10	1.77
STP16CP05MTR	497-5743-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-SOIC	2.28	1.90	1.60
STP16CP05MTR	497-5743-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-SOIC	1026.00/1,000		
STP16CP05TTR	497-5744-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-TSSOP	2.28	1.90	1.60
STP16CP05TTR	497-5744-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-TSSOP	2470.00/2,500		
STP16CP05XTTR	497-5745-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-TSSOP	2.40	2.00	1.68
STP16CP05XTTR	497-5745-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-TSSOP	2600.00/2,500		
STP16CPS05MTR	497-5746-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-SOIC	2.64	2.20	1.85
STP16CPS05MTR	497-5746-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-SOIC	1188.00/1,000		
STP16CPS05TTR	497-6120-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-TSSOP	2.64	2.20	1.85
STP16CPS05TTR	497-6120-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-TSSOP	2860.00/2,500		
STP16CPS05XTTR	497-5747-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-TSSOP	2.70	2.25	1.89
STP16CPS05XTTR	497-5747-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-TSSOP	2925.00/2,500		
STP16DP05B1R	497-5974-5-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-Dip	2.94	2.45	2.06
STP16DP05MTR	497-5975-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-SOIC	2.76	2.30	1.94
STP16DP05MTR	497-5975-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-SOIC	1242.00/1,000		
STP16DP05TTR	497-5976-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-TSSOP	2.76	2.30	1.94
STP16DP05TTR	497-5976-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-TSSOP	2990.00/2,500		
STP16DP05XTTR	497-5977-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-HTSSOP	2.82	2.35	1.98
STP16DP05XTTR	497-5977-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver*	24-HTSSOP	3055.00/2,500		
STPAC01F2	497-4388-1-ND	RF Detector for Power Amp Control*	Flip Chip	1.50	1.30	1.00
STPAC01F2	497-4388-2-ND	RF Detector for Power Amp Control*	Flip Chip	2550.00/5,000		
STPAC02F1	497-4389-1-ND	RF Detector for Power Amp Control	Flip Chip	1.69	1.47	1.13
STPAC02F1	497-4389-2-ND	RF Detector for Power Amp Control	Flip Chip	2870.00/5,000		
STPIC6A259MTR	497-2152-1-ND	Power Logic 8-Bit Addressable Latch	24-SOIC	1.98	1.65	1.39
STPIC6C595MTR	497-3023-1-ND	Power Logic 8-Bit Shift Register	16-SOIC	1.43	1.24	.95
STPIC6C595MTR	497-3023-2-ND	Power Logic 8-Bit Shift Register	16-SOIC	1262.50/2,500		
STPIC6C595TTR	497-3024-1-ND	Power Logic 8-Bit Shift Register	16-TSSOP	1.61	1.40	1.08
STPIC6C595TTR	497-3024-2-ND	Power Logic 8-Bit Shift Register	16-TSSOP	1430.00/2,500		
STPIC6D595B1R	497-6328-5-ND	Power Logic 8-Bit Shift Register*	16-Dip	2.04	1.70	1.43
STPIC6D595MTR	497-6329-1-ND	Power Logic 8-Bit Shift Register*	16-SOIC	2.04	1.70	1.43
STPIC6D595MTR	497-6329-2-ND	Power Logic 8-Bit Shift Register*	16-SOIC	2210.00/2,500		
STPIC6D595TTR	497-6330-1-ND	Power Logic 8-Bit Shift Register*	16-TSSOP	2.04	1.70	1.43
STPIC6D595TTR	497-6330-2-ND	Power Logic 8-Bit Shift Register*	16-TSSOP	2210.00/2,500		

ANALOG and MIXED SIGNALS
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
PM6670ASTR	497-6305-1-ND	Complete DDR2/3 Memory Power Supply Controller*	VFQFPN-24	4.64	4.05	3.01
PM6670ASTR	497-6305-2-ND	Complete DDR2/3 Memory Power Supply Controller*	VFQFPN-24	8808.00/4,000		
PM6670STR	497-6306-1-ND	Complete DDR2/3 Memory Power Supply Controller*	VFQFPN-24	4.32	3.76	2.80
PM6670STR	497-6306-2-ND	Complete DDR2/3 Memory Power Supply Controller*	VFQFPN-24	8192.00/4,000		
ST8R00WPUR	497-6105-1-ND	MPU 1A Adj. Volt. Sync. Step-Up DC/DC Converter, Continuous Mode*	8-DFN	1.89	1.58	1.33
ST8R00WPUR	497-6105-2-ND	MPU 1A Adj. Volt. Sync. Step-Up DC/DC Converter, Continuous Mode*	8-DFN	3685.50/4,500		
ST890BDR	497-6333-1-ND	1.2A Current Limited High-Side Power Switch with Thermal Shutdown*	8-SOIC	2.70	2.25	1.89
ST890BDR	497-6333-2-ND	1.2A Current Limited High-Side Power Switch with Thermal Shutdown*	8-SOIC	2925.00/2,500		
STFPC311BTR	497-6107-1-ND	Front Panel Controller/Driver*	52-PQFP	2.55	2.13	1.79
STFPC311BTR	497-6107-2-ND	Front Panel Controller/Driver*	52-PQFP	1262.80/1,100		
STW5093CYLT	497-3375-1-ND	2.7V, 14-Bit Linear Codec with High Performance Audio Front-End	30-TSSOP	4.86	4.23	3.15
STW5093CYLT	497-3375-2-ND	2.7V, 14-Bit Linear Codec with High Performance Audio Front-End	30-TSSOP	5760.00/2,500		

ASICS
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
EMIF03-SIM01F2	497-3401-1-ND	3-Line EMI Filter and ESD Protection	FlipChip	1.09	.95	.73
EMIF10-LCD01F2	497-3402-1-ND	10-Line EMI Filter and ESD Protection	FlipChip	3.00	2.40	1.80
ETC5054N/H	497-1339-5-ND	Serial Interface Codec/Filter	16-Dip	2.92	2.54	1.89
ETC5054N-X/H	497-1338-5-ND	Serial Interface Codec/Filter	16-Dip	2.92	2.54	1.89
STE100P	497-2143-ND	3.3V, 10/100 Fast Ethernet Transcvr	64-TQFP	8.05	7.35	5.81
STLC3055	497-2145-ND	WLL and ISDN-TA Subscriber Line Interface Circuit	44-TQFP	10.97	10.02	7.92
STLC3055QTR	497-3664-1-ND	WLL and ISDN-TA Subscriber Line Interface Circuit	44-TQFP	10.97	10.02	7.92
STLC3055QTR	497-3664-2-ND	WLL and ISDN-TA Subscriber Line Interface Circuit	44-TQFP	6081.75/1,000		

AUDIO SYSTEMS
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
L165H	497-2932-5-ND	3A Power Op Amp	5-Pentawatt	3.83	3.34	2.49
L165V	497-2933-5-ND	3A Power Op Amp	5-Pentawatt	3.67	3.20	2.38
L272	497-2935-5-ND	Dual Power Op Amp	16-Dip	2.88	2.40	2.02
L272D	497-1386-5-ND	Dual Power Op Amp	16-SOIC Narrow	2.40	2.00	1.68
L272M	497-1387-5-ND	Dual Power Op Amp	8-Mini Dip	2.34	1.95	1.64
L2720	497-3909-5-ND	LDO Dual Power Op Amp	16-Power Dip	2.22	1.85	1.56
L2720D13TR	497-3909-1-ND	LDO Dual Power Op Amp	16-SOIC	2.67	2.23	1.87
L2720D13TR	497-3909-2-ND	LDO Dual Power Op Amp	16-SOIC	2892.50/2,500		
L2722	497-1384-5-ND	LDO Dual Power Op Amp	8-Mini Dip	2.64	2.20	1.85
L2724	497-1385-5-ND	Low Drop Dual Power Op Amp	9-Sip	2.85	2.38	2.00
L2726013TR	497-3621-1-ND	Low Drop Dual Power Op Amp	14-SOIC	2.70	2.25	1.89
L2726013TR	497-3621-2-ND	Low Drop Dual Power Op Amp	14-SOIC	1215.00/1,000		
STA013$013TR	497-3939-1-ND	MPEG 2.5 Layer III Audio Decoder	28-SOIC	17.14	15.86	12.00
STA015T$	497-2141-ND	MPEG 2.5 Layer III Audio Decoder	44-TQFP	19.30	17.86	13.51
STA020D	497-3941-5-ND	96kHz Digital Audio Interface Transmitter	24-SOIC	5.00	4.35	3.24
STA120D	497-3943-5-ND	Digital Audio Interface Receiver	28-SOIC	5.00	4.35	3.24
STA120D13TR	497-3943-1-ND	Digital Audio Interface Receiver	28-SOIC	5.00	4.35	3.24
STA120D13TR	497-3943-2-ND	Digital Audio InterfaceReceiver	28-SOIC	2461.00/1,000		
STA500	497-3947-5-ND	30V, 3.5A Quad Power Half Bridge	36-PSOIC	8.63	7.88	6.23
STA502A	497-3950-5-ND	40V, 4A Double Power Half Bridge	36-PSOIC	8.63	7.88	6.23
STA505	497-2142-ND	40V, 3.5A Quad Power Half Bridge	36-PSOIC	9.43	8.61	6.81
STA30613TR	497-3945-1-ND	Multichannel Digital Audio Processor with DDX™	64-TQFP	9.20	8.40	6.64
STA30813TR	497-3946-1-ND	Multichannel Digital Audio Processor with DDX™	64-TQFP	10.58	9.66	7.64
STA30813TR	497-3946-2-ND	Multichannel Digital Audio Processor with DDX™	64-TQFP	5865.00/1,000		
STA501013TR	497-3949-1-ND	40V, 3.5A Double Power Half Bridge	36-PSOIC	8.63	7.88	6.23
STA501013TR	497-3949-2-ND	40V, 3.5A Double Power Half Bridge	36-PSOIC	2925.00/600		
STABP01	497-3951-5-ND	BASH® Digital Processor	20-Dip	7.13	6.51	5.15
STABP01D	497-3952-5-ND	BASH® Digital Processor	20-SOIC	7.13	6.51	5.15
TBA820M	497-3025-5-ND	1.2W Audio Amp	8-Dip	1.35	1.17	.90
TDA1905	497-2160-5-ND	5W, Audio Amplifier	16-Power Dip	2.10	1.75	1.47
TDA2007A	497-3953-5-ND	Dual Stereo Amp	9-SIP	2.73	2.28	1.92
TDA2009A	497-2164-5-ND	10 + 10W, Stereo Amp	11-Multiwatt	3.65	3.18	2.37
TDA2030AH	497-3667-ND	18W, Hi-Fi Audio Amp	Pentawatt	3.11	2.71	2.02
TDA2030AV	497-2165-5-ND	18W, Hi-Fi Amp/35W Driver	Pentawatt	2.97	2.59	1.93
TDA2030H	497-3026-5-ND	14W, Hi-Fi Audio Amp	5-Pentawatt	2.97	2.59	1.93
TDA2030V	497-3954-5-ND	14W, Hi-Fi Audio Amp	Pentawatt	2.86	2.50	1.86
TDA2040V	497-3027-5-ND	20W, Hi-Fi Audio Amp	5-Pentawatt	3.65	3.18	2.37
TDA2050V	497-3028-5-ND	32W, Hi-Fi Audio Amp	5-Pentawatt	3.78	3.29	2.45
TDA2052V	497-3955-5-ND	60W Hi-Fi Audio Power Amp	V-Heptawatt	7.82	7.14	5.65
TDA2822	497-3956-5-ND	Dual Low Voltage Power Amp	16-Power Dip	1.56	1.30	1.10
TDA2822D	497-2166-5-ND	Dual Low Voltage Power Amp	8-SOIC	1.58	1.37	1.05
TDA2822D013TR	497-3376-1-ND	Dual Low Voltage Power Amp	8-SOIC	1.69	1.47	1.13
TDA2822D013TR	497-3376-2-ND	Dual Low Voltage Power Amp	8-SOIC	1496.25/2,500		
TDA7233D013TR	497-3668-1-ND	1W, Audio Amp with Mute	8-SOIC	1.92	1.60	1.35
TDA7233D013TR	497-3668-2-ND	1W, Audio Amp with Mute	8-SOIC	2080.00/2,500		
TDA7263	497-3958-5-ND	AB Dual Audio Power Amp	11-Clipwatt	3.78	3.29	2.45
TDA7264	497-3959-5-ND	AB Dual Audio Power Amp	8-Multiwatt	5.00	4.35	3.24

***** RoHS Compliant*

(Continued)

STMicroelectronics AUDIO SYSTEMS *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TDA7265	497-3960-5-ND	AB Dual Audio Power Amp	11-Multiwatt	6.48	5.64	4.20
TDA7266	497-3669-ND	14W, Dual Bridge Amp	15-Multiwatt	6.90	6.30	4.98
TDA7266D	497-4024-5-ND	14W, Dual Bridge Amp	20-Power SOIC	4.00	3.48	2.59
TDA7266S	497-3670-ND	10W, Dual Bridge Amp	15-Multiwatt	6.79	6.20	4.90
TDA7267	497-3671-ND	2W, Mono Amp	8-MiniDip	2.40	2.00	1.68
TDA7267A	497-3962-5-ND	3W, Mono Amp	16-Power Dip	2.85	2.38	2.00
TDA7268	497-3963-5-ND	2x2W Stereo Audio Amp	16-Power Dip	4.05	3.53	2.63
TDA7269A	497-3964-5-ND	AB Dual Audio Power Amp	11-Multiwatt	5.54	4.82	3.59
TDA7293V	497-2170-5-ND	120V, 100W DMOS Audio Amp	15V-Multiwatt	6.65	6.07	4.80
TDA7294V	497-2171-5-ND	100V, 100W DMOS Audio Amp	15V-Multiwatt	10.12	9.24	7.31
TDA7295	497-3965-5-ND	80V, 80W DMOS Audio Amp	15-Multiwatt	8.97	8.19	6.48
TDA7296	497-3966-5-ND	70V, 60W DMOS Audio Amp	15-Multiwatt	8.63	7.88	6.23
TDA7297	497-3967-5-ND	Dual Bridge Amp	15-Multiwatt	6.90	6.30	4.98
TDA7297D	497-3968-5-ND	Dual Bridge Amp	20-Power SOIC	7.52	6.87	5.43
TDA7309D013TR	497-3969-1-ND	Digital Controlled Stereo Audio Processor	20-SOIC	6.10	5.57	4.40
TDA7309D013TR	497-3969-2-ND	Digital Controlled Stereo Audio Processor	20-SOIC	3378.75/1,000		
TDA7438D	497-3982-5-ND	Three Bands Digitally Controlled Audio Processor	28-SOIC	6.90	6.30	4.98
TDA7439DS13TR	497-3983-1-ND	Three Bands Digitally Controlled Audio Processor	30-SDip	8.97	8.19	6.48
TDA7439DS13TR	497-3983-2-ND	Three Bands Digitally Controlled Audio Processor	30-SDip	4972.50/1,000		
TDA7449	497-3672-ND	Tone Control, Digitally Controlled Audio Processor	20-Dip	3.38	2.94	2.19
TDA7482	497-3984-5-ND	25W Mono Class-D Amp	15-Multiwatt	8.28	7.56	5.98
TDA7490	497-3985-5-ND	Dual Stereo Class-D Amp	25-Flexiwatt	7.48	6.83	5.40
TDA7490L	497-3986-5-ND	Dual Stereo Class-D Amp	25-Flexiwatt	6.81	6.22	4.92
TDA7494S	497-2180-5-ND	10W, Amp	15-Multiwatt	2.07	1.73	1.45
TDA7511	497-3988-ND	AM/FM Tuner for Car Radio and Hi-Fi Applications	64-TQFP	11.80	10.92	8.26
TEA2025B	497-3991-5-ND	Stereo Audio Amp	16-Dip	1.77	1.48	1.24
TEA2025D013TR	497-3675-1-ND	Stereo Audio Amp	20-SOIC	2.04	1.70	1.43
TEA2025D013TR	497-3675-2-ND	Stereo Audio Amp	20-SOIC	918.00/1,000		

STMicroelectronics DEMONSTRATION EVALUATION BOARDS

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
DEMOTD350	497-6359-ND	Demo Board for TD350* ***NEW!***	—	70.00	—	—
DEMOTS472Q	497-6361-ND	Demo Board for TS472* ***NEW!***	—	70.00	—	—
DEMOTS488S	497-6362-ND	Demo Board for TS488* ***NEW!***	—	35.00	—	—
DEMOTS489S	497-6363-ND	Demo Board for TS489* ***NEW!***	—	35.00	—	—
DEMOTS2007Q	497-6360-ND	Demo Board for TS2007* ***NEW!***	—	210.00	—	—
DEMOTS4909Q	497-6380-ND	Demo Board for TS4909Q* ***NEW!***	—	70.00	—	—
DEMOTS4956J	497-6381-ND	Demo Board for TS4956* ***NEW!***	—	210.00	—	—
DEMOTS4974Q	497-6382-ND	Demo Board for TS4974* ***NEW!***	—	52.50	—	—
DEMOTS4990Q	497-6383-ND	Demo Board for TS4990* ***NEW!***	—	70.00	—	—
DEMOTS4995J	497-6364-ND	Demo Board for TS4995* ***NEW!***	—	52.50	—	—
DEMOTS4997Q	497-6045-ND	Evaluation Demo Board for TS4997*	—	39.90	—	—
EVALCOMMBOARD	497-5483-ND	Evaluation GP Board for 12Mbps PC*	—	104.00	—	—
EVAL4971	497-4744-ND	Board for L4971 Step-Down Switching Reg.	—	10.40	—	—
EVAL4973	497-4743-ND	Board for L4973X Step-Down Switching Regulator	—	13.00	—	—
EVAL4981A	497-5523-ND	Evaluation Board for L4981A*	—	70.00	—	—
EVAL5970D	497-4132-ND	Evaluation Board for L5970	—	13.00	—	—
EVAL5972D	497-4741-ND	Board for L5972D DC/DC Converter	—	13.00	—	—
EVAL5973AD	497-4133-ND	Evaluation Board for L5973	—	13.00	—	—
EVAL5973D	497-4134-ND	Evaluation Board for L5973	—	13.00	—	—
EVAL5980	497-6384-ND	Evaluation Board for L5980* ***NEW!***	—	105.00	—	—
EVAL5981	497-6385-ND	Evaluation Board for L5981* ***NEW!***	—	105.00	—	—
EVAL5983	497-6386-ND	Evaluation Board for L5983* ***NEW!***	—	105.00	—	—
EVAL5985	497-6387-ND	Evaluation Board for L5985* ***NEW!***	—	105.00	—	—
EVAL6205N	497-5486-ND	Evaluation Board for L6205N*	—	26.00	—	—
EVAL6206N	497-5487-ND	Evaluation Board for L6206N*	—	26.00	—	—
EVAL6206PD	497-4135-ND	Evaluation Board for L6206	—	32.50	—	—
EVAL6207N	497-4934-ND	Board for DC Motors or Stepper Motors	—	26.00	—	—
EVAL6208N	497-5488-ND	Evaluation Board for L6208N*	—	39.00	—	—
EVAL6225PD	497-5489-ND	Evaluation Board for L6225PD*	—	39.00	—	—
EVAL6227PD	497-5490-ND	Evaluation Board for L6227PD*	—	45.50	—	—
EVAL6229PD	497-5491-ND	Evaluation Board for L6229PD*	—	52.00	—	—
EVAL6235N	497-4935-ND	Board for Brushless DC Motor	—	26.00	—	—
EVAL6563-80W	497-5493-ND	Evaluation Board for L6563*	—	32.50	—	—
EVAL6563-400W	497-5854-ND	Evaluation Board for L6563*	—	226.10	—	—
EVAL6565-25W	497-6388-ND	Evaluation Board for L6565* ***NEW!***	—	157.50	—	—
EVAL6569	497-4738-ND	Board for L6569 Lighting Application	—	13.00	—	—
EVAL6574B	497-3823-ND	Evaluation Board for HF TL Ballast	—	26.00	—	—
EVAL6585D-230V	497-5855-ND	Evaluation Board for L6585D*	—	26.60	—	—
EVAL6598-100W	497-5495-ND	Evaluation Board for L6598*	—	104.00	—	—
EVAL6599-90W	497-5497-ND	Evaluation Board for L6599*	—	130.00	—	—
EVAL6599-200W	497-5496-ND	Evaluation Board for L6599*	—	195.00	—	—
EVAL6599-400W-S	497-5856-ND	Evaluation Board for L6599*	—	266.00	—	—
EVAL6599-400W-T	497-5857-ND	Evaluation Board for L6599*	—	266.00	—	—
EVAL6615	497-5498-ND	Evaluation Board for L6615*	—	104.00	—	—
EVAL6668-75W	497-6365-ND	Evaluation Board for L6668-75W* ***NEW!***	—	525.00	—	—
EVAL6668-STB	497-5499-ND	Evaluation Board for L6668*	—	45.50	—	—
EVAL6725	497-5500-ND	Evaluation Board for L6725*	—	19.50	—	—
EVAL6730	497-5501-ND	Evaluation Board for L6730XX*	—	26.00	—	—
EVAL6732	497-5502-ND	Evaluation Board for L6732*	—	19.50	—	—
EVAL6902D	497-4746-ND	Board for L6902D Battery Charger	—	13.00	—	—
EVAL6920D	497-4742-ND	Board for L6920D Sync. Step-Up Converter	—	13.00	—	—
EVAL6920DB1	497-5503-ND	Evaluation Board for L6920DB*	—	13.00	—	—
EVAL6924D	497-5504-ND	Evaluation Board for L6924D*	—	13.00	—	—
EVAL6926D	497-4737-ND	Board for L6926 Step-Down Regulator	—	13.00	—	—
EVAL6928D	497-4745-ND	Board for L6928 Step-Down Regulator	—	13.00	—	—
EVAL6928Q1	497-5505-ND	Evaluation Board for L6928Q1*	—	13.00	—	—
EVAL6932D1.2	497-5506-ND	Evaluation Board for L6932DXXX*	—	13.00	—	—
EVAL6932D1.8	497-5507-ND	Evaluation Board for L6932D1.8*	—	13.00	—	—
EVAL6932D2.5	497-5508-ND	Evaluation Board for L6932D2.5*	—	13.00	—	—
EVALPM6680	497-6241-ND	Evaluation Board for PM6680*	—	130.00	—	—
EVALPM6680A	497-6263-ND	Evaluation Board for PM6680A*	—	130.00	—	—
EVALPM8800A-HP	497-6366-ND	Evaluation Board for PM8800A* ***NEW!***	—	700.00	—	—
EVALPRACTISPIN	497-4138-ND	Evaluation Board PractiSpin	—	39.00	—	—
EVALST7538-2	497-5482-ND	Evaluation Board for ST7538*	—	260.00	—	—
EVALST7538DUAL	497-5484-ND	Eval. Board for Power Line Transceiver*	—	156.00	—	—
EVALST7540-1	497-5485-ND	Eval. Board for Power Line Transceiver*	—	156.00	—	—
EVALSTSR30-60W	497-6389-ND	Eval. Board using L6668/STSR30* ***NEW!***	—	175.00	—	—
EVALTSM1052	497-6242-ND	Evaluation Board for TSM1052*	—	70.00	—	—
ST1S06DEMOBO12	497-5849-ND	Demo Board for ST1S06PM12R*	—	21.28	—	—
ST1S06DEMOBO33	497-5850-ND	Demo Board for ST1S06PM33R*	—	21.28	—	—
ST1S09DEMOBO12	497-6244-ND	Demo Board for ST1S09*	—	26.00	—	—
ST1S09DEMOBO33	497-6243-ND	Demo Board for ST1S09*	—	26.00	—	—
ST1S09IDEMOBO12	497-6251-ND	Demo Board for ST1S09*	—	26.00	—	—
ST1S09IDEMOBO33	497-6254-ND	Demo Board for ST1S09IPUR*	—	26.00	—	—
ST5R33DEMOBOARD	497-5852-ND	Demo Board for ST5R33MTR*	—	33.25	—	—
ST8R00WDEMOBO9	497-6253-ND	Demo Board for ST8R00WPUR*	—	26.00	—	—
STCS1DEMO1	497-5960-ND	Demo Board for STCS1P*	—	29.26	—	—
STEVAL-CBP002V1	497-6393-ND	Evaluation Board for STFPC320* ***NEW!***	—	96.25	—	—
STEVAL-CCA001V1	497-6265-ND	Demo Board based on TS4962MEIJT*	—	68.25	—	—
STEVAL-CCA002V1	497-6395-ND	Evaluation Board for TS4994* ***NEW!***	—	50.75	—	—
STEVAL-CCA003V1	497-6396-ND	Evaluation Board for TS4984* ***NEW!***	—	52.50	—	—
STEVAL-CLP001V1	497-6397-ND	Evaluation Board for STOD2540* ***NEW!***	—	68.25	—	—
STEVAL-IAC001V1	497-6261-ND	Evaluation Board Alarm Platform*	—	299.00	—	—
STEVAL-IAS001V1	497-6398-ND	Evaluation Board for ST7Flite39/ STM1403* ***NEW!***	—	43.75	—	—
STEVAL-ICV001V1	497-5858-ND	Evaluation Board Playback ST7Flite*	—	166.25	—	—
STEVAL-IFN001V1	497-5068-ND	Board for Motor Control	—	208.00	—	—
STEVAL-IFN001V2	497-6399-ND	Dev. Kit Starter for ST10F276Z5* ***NEW!***	—	280.00	—	—
STEVAL-IFN002V1	497-5509-ND	Evaluation Board for ARMIC30*	—	91.00	—	—
STEVAL-IFP001V1	497-5510-ND	Board for High Side Driver, 8-Channel Based on VN808*	—	52.00	—	—
STEVAL-IFP002V1	497-4929-ND	Board for High Side Driver, 8-Channel Based on VN808	—	58.50	—	—
STEVAL-IFP003V1	497-5511-ND	Board for High Side Driver, 4-Channel Based on VN808*	—	45.50	—	—
STEVAL-IFP004V1	497-6231-ND	Evaluation Board based on Digital Input Termination PCLT2*	—	80.60	—	—
STEVAL-IFP005V1	497-6400-ND	Evaluation Board for VN751PT* ***NEW!***	—	57.75	—	—
STEVAL-IFP008V1	497-6401-ND	Evaluation Board for CLT3-4* ***NEW!***	—	47.25	—	—
STEVAL-IFS001V1	497-5069-ND	3 Axis MEMS Accelerometer Demo	—	33.80	—	—
STEVAL-IFS003V1	497-6238-ND	Demo Board based on Temp. Sensor STLM75/ STDS75 and ST72F651AR6*	—	91.00	—	—
STEVAL-IFS006V1	497-6403-ND	Evaluation Board for TDE1708* ***NEW!***	—	61.25	—	—
STEVAL-IFS010V1	497-6404-ND	Evaluation Board for STR9* ***NEW!***	—	64.75	—	—
STEVAL-IFS011V1	497-6405-ND	Evaluation Board for STR9* ***NEW!***	—	47.25	—	—
STEVAL-IHM001V1	497-4731-ND	Control Board for BLDC/AC Motor Control	—	45.50	—	—
STEVAL-IHM002V1	497-4928-ND	Control Board for BLDC/AC Motor Control	—	91.00	—	—
STEVAL-IHM003V1	497-4732-ND	Control Board for BLDC/AC Motor Control, 300W Power Driver	—	91.00	—	—
STEVAL-IHM004V1	497-4733-ND	Control Board for BLDC/AC Motor Control, 1KW Power Driver	—	54.60	—	—
STEVAL-IHM005V1	497-4734-ND	Control Board for BLDC/AC Motor Control, 3KW Power Driver	—	96.25	—	—
STEVAL-IHM006V1	497-5080-ND	Eval. Board for AC/AC Chopper Drives	—	54.60	—	—
STEVAL-IHM007V1	497-5085-ND	Universal Motor Control Starter Kit	—	111.80	—	—
STEVAL-IHM008V1	497-5512-ND	Evaluation Board for Semitop®2*	—	159.25	—	—
STEVAL-IHM009V1	497-5513-ND	Evaluation Board for Semitop®3*	—	136.50	—	—
STEVAL-IHM012V1	497-5861-ND	Evaluation Board for Power Mosfet/8-pin Microcontroller*	—	53.20	—	—
STEVAL-IHM013V1	497-6407-ND	Eval. Board for Vacuum Cleaner* ***NEW!***	—	103.25	—	—
STEVAL-IHM017V1	497-6408-ND	Eval. Board BLDC Sensorless Motor* ***NEW!***	—	201.25	—	—
STEVAL-IHT001V1	497-5514-ND	Evaluation Board for Thermo Control*	—	117.00	—	—
STEVAL-IHT002V1	497-5862-ND	Evaluation Board for Thermo Control ST7Ultralite MCU*	—	33.25	—	—
STEVAL-IKA001V1	497-6367-ND	Evaluation Board for STM32* ***NEW!***	—	66.50	—	—
STEVAL-ILB001V2	497-6409-ND	Eval. Board Bipolar Solution for PFC* ***NEW!***	—	70.00	—	—
STEVAL-ILB004V1	497-6232-ND	Evaluation Board for ST7LITE1B, STP5NK60Z*	—	93.60	—	—
STEVAL-ILC001V1	497-5576-ND	Evaluation Board for HF TL Ballast*	—	46.80	—	—
STEVAL-ILL001V1	497-5071-ND	Evaluation Board for Dimmable Driver	—	45.50	—	—
STEVAL-ILL002V3	497-6337-ND	Eval. Board for 40 LED STP08DP05* ***NEW!***	—	63.70	—	—
STEVAL-ILL002V4	497-6338-ND	Eval. Board for 40 LED STP08DP05* ***NEW!***	—	63.70	—	—
STEVAL-ILL003V1	497-5070-ND	Evaluation Board 32 LED Array	—	33.80	—	—
STEVAL-ILL003V2	497-6410-ND	Eval. Board based on STP16CP05* ***NEW!***	—	61.25	—	—
STEVAL-ILL004V1	497-5081-ND	Phase Control Dimmer Board	—	33.80	—	—
STEVAL-ILL004V2	497-5515-ND	Phase Control Dimmer Board*	—	33.80	—	—
STEVAL-ILL005V1	497-5072-ND	Evaluation Board for VIPer12A Off-Line	—	53.30	—	—
STEVAL-ILL006V1	497-5073-ND	Evaluation Board for VIPer22A Off-Line	—	53.30	—	—
STEVAL-ILL007V1	497-5074-ND	Eval. Board for High Intensity LED Driver	—	40.30	—	—
STEVAL-ILL008V1	497-5516-ND	Evaluation Board for Cree LED Flashlight*	—	31.20	—	—
STEVAL-ILL009V1	497-6250-ND	RGB Control Board based on STP04CM596 No LEDs*	—	48.10	—	—
STEVAL-ILL009V3	497-6256-ND	RGB Control Load Board with OSTAR Projection Module*	—	46.80	—	—
STEVAL-ILL009V4	497-6257-ND	RGB Control Load Board with OSRAM Golden Eagle LEDs*	—	42.90	—	—
STEVAL-ILL010V1	497-6411-ND	Eval. Board based on L6902* ***NEW!***	—	45.50	—	—
STEVAL-ILL011V1	497-6225-ND	RGB Control Board for LCD Backlighting Based on ST72264G2 and STP08C596A*	—	131.25	—	—
STEVAL-IPA001V1	497-5677-ND	Anti-Tamper/Security Kit*	—	44.20	—	—
STEVAL-IPB001V1	497-5863-ND	Evaluation Board, 2W SMPS/3-Phase ESBT Breaker*	—	31.92	—	—
STEVAL-IPE002V1	497-5076-ND	Evaluation Board Energy Meter	—	45.50	—	—
STEVAL-IPE003V1	497-5077-ND	Evaluation Board Energy Meter	—	45.50	—	—
STEVAL-IPE006V2	497-5079-ND	Evaluation Board High End Energy Meter	—	169.00	—	—
STEVAL-IPE007V1	497-5517-ND	Evaluation Board 1-Phase Energy Meter*	—	58.50	—	—
STEVAL-IPE008V1	497-6412-ND	Evaluation Board for STPM01/ STR715FR0* ***NEW!***	—	469.00	—	—
STEVAL-IPR001V1	497-5518-ND	Evaluation RFid Reader*	—	120.90	—	—
STEVAL-ISA001V1	497-4931-ND	Board for 6W Dual Output Supply using VIPer12A	—	26.25	—	—
STEVAL-ISA004V1	497-5864-ND	Eval. Board, Dual Output, using VIPer22A*	—	62.51	—	—
STEVAL-ISA005V1	497-4932-ND	Board for 1.8W Buck Topology Power Supply with VIPer12AS	—	42.00	—	—
STEVAL-ISA006V1	497-5082-ND	Eval. Board for 6W Non-Isolated Fly-Back Topology Power Supply	—	26.25	—	—
STEVAL-ISA007V1	497-5083-ND	Evaluation Board for 3-Phase Power Supply with ESBT	—	71.50	—	—
STEVAL-ISA009V1	497-6262-ND	Design Board using VIPer53-E*	—	91.00	—	—

***RoHS Compliant**

(Continued)

STMicroelectronics — DEMONSTRATION EVALUATION BOARDS *(Continued)*

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
STEVAL-ISA011V1	497-6413-ND	Evaluation Board for VIPer12A* ***NEW!***	—	70.00	—	—
STEVAL-ISA012V1	497-5678-ND	Evaluation Board for 3-Phase Power Supply with VIPer/MOSFETs *	—	88.40	—	—
STEVAL-ISA013V1	497-4933-ND	Board for VIPer53 Dual Output Off-Line Wide Range Power Supply	—	40.30	—	—
STEVAL-ISA014V1	497-5084-ND	Board for VIPer12A Travel Adaptor 3.6W Output	—	16.90	—	—
STEVAL-ISA015V2	497-5679-ND	Evaluation Board for 3-Phase Power Supply with ESBT (100W)*	—	97.50	—	—
STEVAL-ISA016V1	497-6414-ND	Evaluation Board for L6565* ***NEW!***	—	61.25	—	—
STEVAL-ISA017V1	497-5680-ND	Evaluation Board Power Supply for STB based on L6565 (US-110V)*	—	45.50	—	—
STEVAL-ISA019V2	497-6339-ND	Evaluation Board 80W ESBT Quasi-Resonant Wide-Range SMPS* ***NEW!***	—	84.50	—	—
STEVAL-ISA020V1	497-5519-ND	Evaluation Board for 3.5W Battery Charger*	—	16.90	—	—
STEVAL-ISA021V1	497-5219-ND	VIPer22A Single Output Evaluation Board, 90 to 264 VAC Input, 10W Output	—	20.80	—	—
STEVAL-ISA022V1	497-5520-ND	Evaluation Board for 6W Power Supply*	—	20.80	—	—
STEVAL-ISA023V1	497-5865-ND	Evaluation Board, 24W Positive Output, using VIPer53E*	—	49.21	—	—
STEVAL-ISA023V2	497-5866-ND	Evaluation Board, 24W Negative Output, using VIPer53E*	—	55.86	—	—
STEVAL-ISA024V1	497-5867-ND	Eval. Board, 20A, 250kHz using L6725*	—	61.18	—	—
STEVAL-ISA025V1	497-5868-ND	Eval. Board, 30A, 400kHz using L6730*	—	87.78	—	—
STEVAL-ISA026V1	497-5869-ND	Eval. Board, 20A, 250kHz using L6732*	—	63.84	—	—
STEVAL-ISA027V1	497-6259-ND	Eval. Board, Single Phase, 20A, Step-Down, 300kHz using L6726A*	—	71.50	—	—
STEVAL-ISA028V1	497-6258-ND	Eval. Board, Single Phase, 20A, Step-Down, 300kHz using L6727*	—	65.00	—	—
STEVAL-ISA031V1	497-6415-ND	Evaluation Board based on L6565/ STW4N150* ***NEW!***	—	201.25	—	—
STEVAL-ISA032V1	497-6416-ND	Evaluation Board based on L5991/ STP10NK60Z* ***NEW!***	—	166.25	—	—
STEVAL-ISA036V1	497-6417-ND	Eval. Board based on STC04IE170* ***NEW!***	—	138.25	—	—
STEVAL-ISA037V1	497-6418-ND	Eval. Board based on L6728* ***NEW!***	—	105.00	—	—
STEVAL-ISA042V1	497-6368-ND	Eval. Board based on ST1S03* ***NEW!***	—	63.00	—	—
STEVAL-ISA042V2	497-6369-ND	Eval. Board based on ST1S03* ***NEW!***	—	63.00	—	—
STEVAL-ISA043V1	497-6419-ND	Eval. Board based on ST1S06* ***NEW!***	—	63.00	—	—
STEVAL-ISA043V2	497-6420-ND	Eval. Board based on ST1S06* ***NEW!***	—	63.00	—	—
STEVAL-ISA045V1	497-6370-ND	Eval. Board based on ST1S09* ***NEW!***	—	61.25	—	—
STEVAL-ISA045V2	497-6371-ND	Eval. Board based on ST1S09* ***NEW!***	—	61.25	—	—
STEVAL-ISA046V1	497-6372-ND	Eval. Board based on ST1S09* ***NEW!***	—	61.25	—	—
STEVAL-ISA046V2	497-6373-ND	Eval. Board based on ST1S09* ***NEW!***	—	61.25	—	—
STEVAL-ISA047V1	497-6374-ND	Eval. Board based on ST1S03A* ***NEW!***	—	61.25	—	—
STEVAL-ISA047V2	497-6375-ND	Eval. Board based on ST1S03A* ***NEW!***	—	61.25	—	—
STEVAL-ISA048V1	497-6376-ND	Eval. Board based on ST8R00* ***NEW!***	—	61.25	—	—
STEVAL-ISA048V2	497-6377-ND	Eval. Board based on ST8R00W* ***NEW!***	—	61.25	—	—
STEVAL-ISA053V1	497-6378-ND	Evaluation Board for PM6680* ***NEW!***	—	122.50	—	—
STEVAL-ISA053V2	497-6379-ND	Evaluation Board for PM6680A* ***NEW!***	—	122.50	—	—
STEVAL-ISB001V1	497-5682-ND	Eval. Board for Cell Phone Battery Charger*	—	46.80	—	—
STEVAL-ISB002V1	497-6421-ND	Evaluation Board Digital Battery Charger Design* ***NEW!***	—	82.25	—	—
STEVAL-ISC001V1	497-6422-ND	Evaluation Board based on L6565* ***NEW!***	—	103.25	—	—
STEVAL-ISQ002V1	497-6423-ND	Eval. Board based on ST72264G1* ***NEW!***	—	78.75	—	—
STEVAL-PCC001V1	497-5683-ND	Evaluation Board for Full Speed USB-Serial Bridge*	—	35.00	—	—
STEVAL-PCC002V1	497-5521-ND	Evaluation Board for Low Speed USB*	—	26.00	—	—
STEVAL-PCN001V1	497-5577-ND	Evaluation Board for USB Power Switch*	—	62.40	—	—
STEVAL-PSQ001V1	497-6425-ND	Eval. Board based on PM6680A* ***NEW!***	—	136.50	—	—
STEVAL-SCM001V1	497-5684-ND	Demo Board for RTC M41T62 with ST7 USB*	—	29.90	—	—
STEVAL-TCS001V1	497-6426-ND	Eval. Board based on STMPE2401* ***NEW!***	—	201.25	—	—
STEVAL-TDE001V1	497-5522-ND	Evaluation Board for 100 Bast T*	—	71.50	—	—
STEVAL-TLL001V1	497-6260-ND	Evaluation Board LED Controller based on STLD40D*	—	37.70	—	—
STEVAL-TLL002V1	497-6239-ND	Evaluation Board Flash Driver based on STCF01*	—	35.10	—	—
STEVAL-TLL003V1	497-6235-ND	Evaluation Board Power Flash Driver based on STCF02*	—	63.70	—	—
STEVAL-TSP001V1	497-6427-ND	Evaluation Board for STHS4257A/ L6565D* ***NEW!***	—	131.25	—	—
STUSB03EDEMOBO	497-5853-ND	Demo Board for STUSB03EQR* ***NEW!***	—	122.50	—	—

STMicroelectronics Digi-Reel® INDUSTRIAL

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
E-AVS1ACP08	497-4551-ND	Auto Voltage Switch*	8-Dip	3.38	2.94	2.19
L292	497-1388-5-ND	Switch-Mode Driver for DC Motors	15V-Multiwatt	5.95	5.44	4.30
L293B	497-1389-5-ND	Push-Pull 4-Channel Driver	16-Dip	3.24	2.82	2.10
L293D	497-2936-5-ND	Push-Pull 4-Channel Driver	16-Dip	4.32	3.76	2.80
L293DD	497-1390-5-ND	Push-Pull 4-Ch. Driver with Diodes*	20-SOIC	5.37	4.68	3.49
E-L293DD013TR	497-4553-1-ND	Push-Pull 4-Ch. Driver with Diodes*	20-SOIC	5.37	4.68	3.49
E-L293DD013TR	497-4553-2-ND	Push-Pull 4-Ch. Driver with Diodes*	20-SOIC	2647.00/1,000		
L293E	497-3622-ND	Push-Pull 4 Channel Driver	20-PowerDip	5.81	5.06	3.77
L294	497-2938-5-ND	Switch-Mode Solenoid Driver	11-Multiwatt	4.97	4.33	3.22
L295	497-1391-5-ND	Dual Switch-Mode Solenoid Driver	15-Multiwatt	7.48	6.83	5.40
L297D	497-3623-5-ND	Stepper Motor Controller	20-SOIC	9.43	8.61	6.81
L297D013TR	497-3623-1-ND	Stepper Motor Controller	20-SOIC	9.43	8.61	6.81
L297D013TR	497-3623-2-ND	Stepper Motor Controller	20-SOIC	5228.00/1,000		
L297/1	497-1394-5-ND	Stepper Motor Controller	20-Dip	9.89	9.03	7.14
L298HN	497-2940-5-ND	Dual Full-Bridge Driver	15-Multiwatt	4.59	4.00	2.98
L298N	497-1395-5-ND	Dual Full-Bridge Driver*	15-Multiwatt	3.57	3.26	2.58
L298P013TR	497-3624-1-ND	Dual Full-Bridge Driver	20-Power SOIC	6.26	5.72	4.52
L298P013TR	497-3624-2-ND	Dual Full-Bridge Driver	20-Power SOIC	2121.60/600		
L6201	497-1418-5-ND	DMOS Full Bridge Driver	20-SOIC	8.97	8.19	6.48
E-L6201PS	497-4567-5-ND	DMOS Full Bridge Driver*	20-Power SOIC	8.79	8.03	6.35
E-L6201PSTR	497-4568-1-ND	DMOS Full Bridge Driver*	20-Power SOIC	8.79	8.03	6.35
E-L6201PSTR	497-4568-2-ND	DMOS Full Bridge Driver*	20-Power SOIC	2979.60/600		
L6202	497-1420-5-ND	DMOS Full Bridge Driver*	18-Power Dip	8.63	7.88	6.23
L6203	497-1421-5-ND	DMOS Full Bridge Driver*	Multiwatt	11.27	10.29	8.14
L6205D013TR	497-3998-1-ND	DMOS Dual Full Bridge Driver	20-SOIC	10.88	9.94	7.86
L6205D013TR	497-3998-2-ND	DMOS Dual Full Bridge Driver	20-SOIC	6031.00/1,000		
L6205N	497-4209-5-ND	DMOS Dual Full Bridge Driver	20-Power Dip	10.88	9.94	7.86
L6206D	497-3999-5-ND	DMOS Dual Full Bridge Driver	24-SOIC	9.66	8.82	6.98
L6206D013TR	497-3999-1-ND	DMOS Dual Full Bridge Driver	24-SOIC	11.04	10.08	7.97
L6206D013TR	497-3999-2-ND	DMOS Dual Full Bridge Driver	24-SOIC	6120.00/1,000		
L6206PD	497-5341-5-ND	DMOS Dual Full Bridge Driver*	36-Power SOIC	11.30	10.46	7.91
L6206PD013TR	497-3643-1-ND	DMOS Dual Full Bridge Driver	36-Power SOIC	10.94	10.12	7.66
L6206PD013TR	497-3643-2-ND	DMOS Dual Full Bridge Driver*	36-Power SOIC	4168.20/600		
L6207D013TR	497-3644-1-ND	DMOS Dual Full Bridge Driver	24-SOIC	10.60	9.81	7.42
L6207D013TR	497-3644-2-ND	DMOS Dual Full Bridge Driver	24-SOIC	6625.00/1,000		
E-L6207D013TR	497-4572-1-ND	DMOS Dual Full Bridge Driver*	24-SOIC	10.60	9.81	7.42
E-L6207N	497-4573-ND	DMOS Dual Full Bridge Driver*	24-Power Dip	10.90	10.09	7.63
L6207PD	497-4000-5-ND	DMOS Dual Full Bridge Driver*	36-SOIC	11.40	10.55	7.98
L6207PD013TR	497-4000-1-ND	DMOS Dual Full Bridge Driver*	36-Power SOIC	11.40	10.55	7.98
L6207PD013TR	497-4000-2-ND	DMOS Dual Full Bridge Driver*	36-Power SOIC	4343.40/600		
E-L6208D	497-4576-5-ND	DMOS Driver for Bipolar Stepper Motor*	24-SOIC	13.30	12.31	9.31
L6208D013TR	497-4001-1-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	13.30	12.31	9.31
L6208D013TR	497-4001-2-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	8313.00/1,000		
L6208N	497-5342-5-ND	DMOS Driver for Bipolar Stepper Motor*	24-Power SOIC	14.00	12.95	9.80
L6208PD	497-4214-5-ND	DMOS Driver for Bipolar Stepper Motor	36-Power SOIC	14.22	13.16	9.96
L6208PD013TR	497-4214-1-ND	DMOS Driver for Bipolar Stepper Motor	36-Power SOIC	14.22	13.16	9.96
L6208PD013TR	497-4214-2-ND	DMOS Driver for Bipolar Stepper Motor	36-Power SOIC	5418.00/600		
L6219	497-1426-5-ND	Stepper Motor Driver	24-Power Dip	3.11	2.71	2.02
L6219DS	497-3647-5-ND	Stepper Motor Driver	24-SOIC	3.38	2.94	2.19
L6219DSA13TR	497-4002-1-ND	Stepper Motor Driver	24-SOIC	3.65	3.18	2.37
L6219DSA13TR	497-4002-2-ND	Stepper Motor Driver	24-SOIC	1796.00/1,000		
L6219R013TR	497-4003-1-ND	Stepper Motor Driver	24-SOIC	4.32	3.76	2.80
L6219R013TR	497-4003-2-ND	Stepper Motor Driver	24-SOIC	2128.00/1,000		
L6220	497-1428-5-ND	Quad Darlington Switch	16-Power Dip	2.76	2.30	1.94
L6221AD013TR	497-4004-1-ND	Quad Darlington Switch	20-SOIC	4.73	4.12	3.07
L6221AD013TR	497-4004-2-ND	Quad Darlington Switch	20-SOIC	2328.00/1,000		
L6221AS	497-1429-5-ND	Quad Darlington Switch	16-Power Dip	2.55	2.13	1.79
L6225D	497-1430-5-ND	DMOS Dual Full Bridge Driver	20-SOIC	6.67	6.09	4.82
L6225DTR	497-5343-1-ND	DMOS Dual Full Bridge Driver*	20-SOIC	6.67	6.09	4.82
L6225DTR	497-5343-2-ND	DMOS Dual Full Bridge Driver*	20-SOIC	3698.00/1,000		
L6225N	497-5344-5-ND	DMOS Dual Full Bridge Driver*	20-Power Dip	6.79	6.20	4.90
L6225PD	497-1431-5-ND	DMOS Dual Full Bridge Driver*	20-Power SOIC	7.94	7.25	5.73
L6225PDTR	497-5345-1-ND	DMOS Dual Full Bridge Driver*	20-Power SOIC	7.94	7.25	5.73
L6225PDTR	497-5345-2-ND	DMOS Dual Full Bridge Driver*	20-Power SOIC	2691.00/600		
L6226DTR	497-3362-1-ND	DMOS Dual Full Bridge Driver	24-SOIC	7.36	6.72	5.32
L6226DTR	497-3362-2-ND	DMOS Dual Full Bridge Driver	24-SOIC	4080.00/1,000		
L6226N	497-5346-5-ND	DMOS Dual Full Bridge Driver*	24-Power Dip	7.48	6.83	5.40
L6226PDTR	497-5347-1-ND	DMOS Dual Full Bridge Driver*	36-Power SOIC	8.63	7.88	6.23
L6226PDTR	497-5347-2-ND	DMOS Dual Full Bridge Driver*	36-Power SOIC	2925.00/600		
L6227DTR	497-3363-1-ND	DMOS Dual Full Bridge Driver with PWM Controller	24-SOIC	8.05	7.35	5.81
L6227DTR	497-3363-2-ND	DMOS Dual Full Bridge Driver with PWM Controller	24-SOIC	4463.00/1,000		
L6227N	497-3648-ND	DMOS Dual Full Bridge Driver with PWM Current Controller	24-Dip	8.05	7.35	5.81
L6227PD	497-5348-5-ND	DMOS Dual Full Bridge Driver with PWM Current Controller*	36-Power SOIC	8.97	8.19	6.48
L6227PDTR	497-4006-1-ND	DMOS Dual Full Bridge Driver with PWM Current Controller	36-Power SOIC	8.97	8.19	6.48
L6227PDTR	497-4006-2-ND	DMOS Dual Full Bridge Driver with PWM Current Controller	36-Power SOIC	3042.00/600		
L6228D	497-5349-5-ND	DMOS Driver for Bipolar Stepper Motor*	24-SOIC	9.32	8.51	6.73
L6228DTR	497-3364-1-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	9.32	8.51	6.73
L6228DTR	497-3364-2-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	5164.00/1,000		
L6228N	497-5350-5-ND	DMOS Driver for Bipolar Stepper Motor*	24-Power Dip	9.43	8.61	6.81
L6228PD	497-5351-5-ND	DMOS Driver for Bipolar Stepper Motor*	36-Power SOIC	10.86	9.92	7.84
L6228PDTR	497-4007-1-ND	DMOS Driver for Bipolar Stepper Motor	36-Power SOIC	10.86	9.92	7.84
L6228PDTR	497-4007-2-ND	DMOS Driver for Bipolar Stepper Motor	36-Power SOIC	3681.60/600		
L6229D	497-5839-5-ND	DMOS Driver for 3-Phase Brushless DC Motor*	24-SOIC	10.35	9.45	7.47
L6229DTR	497-4008-1-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	10.35	9.45	7.47
L6229DTR	497-4008-2-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	5738.00/1,000		
L6229N	497-5840-5-ND	DMOS Driver for 3-Phase Brushless DC Motor*	24-Power Dip	10.47	9.56	7.56
L6229PD	497-5841-5-ND	DMOS Driver for 3-Phase Brushless DC Motor*	36-Power SOIC	11.22	10.25	8.11
L6229PDTR	497-4215-1-ND	DMOS Driver for 3-Phase Brushless DC Motor	36-Power SOIC	11.22	10.25	8.11
L6229PDTR	497-4215-2-ND	DMOS Driver for 3-Phase Brushless DC Motor	36-Power SOIC	3806.40/600		
L6234PD	497-2944-5-ND	3-Phase Motor Driver	20-SOIC	11.04	10.08	7.97
L6234PD013TR	497-5352-1-ND	3-Phase Motor Driver*	20-Power SOIC	11.04	10.08	7.97
L6234PD013TR	497-5352-2-ND	3-Phase Motor Driver*	20-Power SOIC	3744.00/600		
L6235D	497-4009-5-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	13.34	12.34	9.34

***RoHS Compliant**

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

STMicroelectronics Digi-Reel® INDUSTRIAL *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
L6235D013TR	497-4009-1-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	13.34	12.34	9.34
L6235D013TR	497-4009-2-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	8337.50/1,000		
L6235N	497-5353-5-ND	DMOS Driver for 3-Phase Brushless DC Motor*	24-Power Dip	13.34	12.34	9.34
L6235PD	497-5354-5-ND	DMOS Driver for 3-Phase Brushless DC Motor*	36-Power SOIC	15.10	13.97	10.57
L6235PD013TR	497-4010-1-ND	DMOS Driver for 3-Phase Brushless DC Motor	36-Power SOIC	15.10	13.97	10.57
L6235PD013TR	497-4010-2-ND	DMOS Driver for 3-Phase Brushless DC Motor	36-Power SOIC	5753.10/600		
L6258E	497-1433-5-ND	PWM Controlled, High Current DMOS Universial Motor Driver	36-Power SOIC	10.35	9.45	7.47
L6258EX	497-3702-5-ND	PWM Controlled, High Current DMOS Universial Motor Driver	36-Power SOIC	10.35	9.45	7.47
L6370D013TR	497-4011-1-ND	2.5A High Side Driver Industrial Intelligent Power Switch	20-Power SOIC	10.35	9.45	7.47
L6370D013TR	497-4011-2-ND	2.5A High Side Driver Industrial Intelligent Power Switch	20-Power SOIC	3510.00/600		
L6374FP013TR	497-4012-1-ND	Industrial Quad Line Driver	20-SOIC	9.89	9.03	7.14
L6374FP013TR	497-4012-2-ND	Industrial Quad Line Driver	20-SOIC	5483.00/1,000		
L6375D013TR	497-4013-1-ND	0.5A Industrial Intelligent Power Switch	20-SOIC	4.05	3.53	2.63
L6375D013TR	497-4013-2-ND	0.5A Industrial Intelligent Power Switch	20-SOIC	1995.00/1,000		
L6376D013TR	497-3365-1-ND	0.5A High-Side Driver, Quad Intelligent Power Switch	20-Power SOIC	10.30	9.53	7.21
L6376D013TR	497-3365-2-ND	0.5A High-Side Driver, Quad Intelligent Power Switch	20-Power SOIC	3924.30/600		
L6377D	497-1434-5-ND	0.5A High-Side Driver Intelligent Power Switch	14-SOIC	4.64	4.05	3.01
L6377D013TR	497-5355-1-ND	0.5A High-Side Driver Intelligent Power Switch*	14-SOIC	4.64	4.05	3.01
L6377D013TR	497-5355-2-ND	0.5A High-Side Driver Intelligent Power Switch*	14-SOIC	5505.00/2,500		
L6384D013TR	497-4014-1-ND	High Voltage Half Bridge Driver	8-SOIC	4.05	3.53	2.63
L6384D013TR	497-4014-2-ND	High Voltage Half Bridge Driver	8-SOIC	4800.00/2,500		
L6384E	497-6211-5-ND	High Voltage Half Bridge Driver*	8-Dip	4.05	3.53	2.63
L6384ED013TR	497-6212-1-ND	High Voltage Half Bridge Driver*	8-SOIC	4.05	3.53	2.63
L6384ED013TR	497-6212-2-ND	High Voltage Half Bridge Driver*	8-SOIC	4800.00/2,500		
L6385	497-3649-ND	High Voltage High/Low Side Driver	8-MiniDip	4.05	3.53	2.63
L6385D013TR	497-3650-1-ND	High Voltage High/Low Side Driver	8-SOIC	2.91	2.43	2.04
E-L6385D013TR	497-4577-1-ND	High Voltage High/Low Side Driver*	8-SOIC	2.91	2.43	2.04
L6385E	497-6213-5-ND	High Voltage High/Low Side Driver*	8-Dip	4.05	3.53	2.63
L6385ED013TR	497-6214-1-ND	High Voltage High/Low Side Driver*	8-SOIC	4.05	3.53	2.63
L6385ED013TR	497-6214-2-ND	High Voltage High/Low Side Driver*	8-SOIC	4800.00/2,500		
L6386D013TR	497-3651-1-ND	High Voltage High/Low Side Driver	14-SOIC	4.32	3.76	2.80
E-L6386D013TR	497-4579-1-ND	High Voltage High/Low Side Driver*	14-SOIC	2.58	2.15	1.81
E-L6386D013TR	497-4579-2-ND	High Voltage High/Low Side Driver*	14-SOIC	2795.00/2,500		
L6387	497-5782-ND	High Voltage High/Low Side Driver*	8-MiniDip	4.05	3.53	2.63
L6387D	497-5357-5-ND	High Voltage High/Low Side Driver*	8-SOIC	4.05	3.53	2.63
L6387DTR	497-4015-1-ND	High Voltage High/Low Side Driver	8-SOIC	4.05	3.53	2.63
L6387DTR	497-4015-2-ND	High Voltage High/Low Side Driver	8-SOIC	4800.00/2,500		
L6387E	497-6217-5-ND	High Voltage High/Low Side Driver*	8-Dip	4.05	3.53	2.63
L6387ED013TR	497-6218-1-ND	High Voltage High/Low Side Driver*	8-SOIC	4.05	3.53	2.63
L6387ED013TR	497-6218-2-ND	High Voltage High/Low Side Driver*	8-SOIC	4800.00/2,500		
L6388	497-5358-5-ND	High Voltage High/Low Side Driver*	8-MiniDip	3.11	2.71	2.02
L6506	497-2945-5-ND	Current Controller for Stepping Motor	18-Dip	4.86	4.23	3.15
L6506D	497-3652-5-ND	Current Controller for Stepping Motor	20-SOIC	5.18	4.52	3.36
L6506D013TR	497-3652-1-ND	Current Controller for Stepping Motor	20-SOIC	5.18	4.52	3.36
L6506D013TR	497-3652-2-ND	Current Controller for Stepping Motor	20-SOIC	2554.00/1,000		
L6560AD	497-1438-5-ND	Power Factor Corrector	8-SOIC	1.56	1.30	1.10
L6201013TR	497-3640-1-ND	DMOS Full Bridge Driver	20-SOIC	8.56	7.82	6.18
L6201013TR	497-3640-2-ND	DMOS Full Bridge Driver	20-SOIC	4743.00/1,000		
L6451013TR	497-4016-1-ND	28-Channel Ink Jet Driver	44-PLCC	8.72	7.96	6.30
L6451013TR	497-4016-2-ND	28-Channel Ink Jet Driver	44-PLCC	2463.50/500		
SERC816	497-3662-ND	Sercos Interface Controller	100-PQFP	32.38	27.75	24.61
SERC816/TR	497-3374-1-ND	Sercos Interface Controller	100-PQFP	32.38	27.75	24.61
SERC816/TR	497-3374-2-ND	Sercos Interface Controller	100-PQFP	11562.50/500		
TD220ID	497-2156-5-ND	Gate Driver	8-SOIC	1.69	1.47	1.13
TD220IDT	497-5416-1-ND	Gate Driver*	8-SOIC	1.69	1.47	1.13
TD220IDT	497-5416-2-ND	Gate Driver*	8-SOIC	1497.50/2,500		
TD221ID	497-2157-5-ND	Gate Driver	8-SOIC	1.69	1.47	1.13
TD310IDT	497-4052-1-ND	Triple IGBT/MOS Driver	16-SOIC	2.34	1.95	1.64
TD310IDT	497-4052-2-ND	Triple IGBT/MOS Driver	16-SOIC	2535.00/2,500		
TD350ID	497-5848-5-ND	Advanced IGBT/MOSFET Driver*	14-SOIC	2.97	2.59	1.93
TD350IDT	497-4053-1-ND	Advanced IGBT/MOSFET Driver	14-SOIC	2.97	2.59	1.93
TD350IDT	497-4053-2-ND	Advanced IGBT/MOSFET Driver	14-SOIC	3520.00/2,500		
TD351IDT	497-4439-1-ND	Advanced IGBT/MOSFET Driver	8-SOIC	1.80	1.50	1.26
TD351IN	497-4440-5-ND	Advanced IGBT/MOSFET Driver	8-Dip	1.80	1.50	1.26
TD352IDT	497-4676-1-ND	Advanced IGBT/MOSFET Driver	8-SOIC	1.54	1.34	1.03
TD352IDT	497-4676-2-ND	Advanced IGBT/MOSFET Driver	8-SOIC	1362.50/2,500		
TDA0161DP	497-2158-5-ND	Proximity Detector	8-Mini Dip	3.51	3.06	2.28
TDA0161FP	497-2159-5-ND	Proximity Detector	8-SOIC	3.51	3.06	2.28
TDE0160FPT	497-5417-1-ND	Proximity Detectors*	14-SOIC	4.40	3.84	2.86
TDE0160FPT	497-5417-2-ND	Proximity Detectors*	14-SOIC	5215.00/2,500		
TDE1707BFPT	497-3674-1-ND	Intelligent Power Switch	8-SOIC	5.81	5.06	3.77
TDE1707BFPT	497-3674-2-ND	Intelligent Power Switch	8-SOIC	6880.00/2,500		
TDE1707DFT	497-5169-1-ND	Intelligent Power Switch*	8-DFN	4.32	3.76	2.80
TDE1707DFT	497-5169-2-ND	Intelligent Power Switch*	8-DFN	9216.00/4,500		
TDE1708DFT	497-5769-1-ND	Intelligent Power Switch*	4x4-DFN	3.11	2.71	2.02
TDE1708DFT	497-5769-2-ND	Intelligent Power Switch*	4x4-DFN	6624.00/4,500		
TDE1737DP	497-5322-5-ND	Relay and Lamp Driver*	8-Dip	5.45	4.75	3.54
TDE1737FP	497-5418-5-ND	Relay and Lamp Driver*	14-SOIC	5.45	4.75	3.54
TDE1737FPT	497-5419-1-ND	Relay and Lamp Driver*	14-SOIC	5.45	4.75	3.54
TDE1737FPT	497-5419-2-ND	Relay and Lamp Driver*	14-SOIC	6465.00/2,500		
TDE1747DP	497-5420-5-ND	Relay and Lamp Driver*	8-Dip	5.45	4.75	3.54
TDE1747FP	497-5421-5-ND	Relay and Lamp Driver*	14-SOIC	5.45	4.75	3.54
TDE1787ADP	497-5422-5-ND	Relay and Lamp Driver*	8-Dip	8.86	8.09	6.40
TDE1787DP	497-5423-5-ND	Relay and Lamp Driver*	8-Dip	6.44	5.88	4.65
TDE1798DP	497-2184-5-ND	0.5A, Intelligent Power Switch	8-Mini Dip	6.39	5.84	4.62
TDE1897CDP	497-5424-5-ND	0.5A, High-Side IPS Driver*	8-Dip	6.44	5.88	4.65
TDE1897RDP	497-2185-5-ND	0.5A, High-Side IPS Driver	8-Mini Dip	5.13	4.47	3.33
TDE1897RFPT	497-5194-1-ND	0.5A, High-Side IPS Driver*	20-SOIC	5.75	5.25	4.15
TDE1897RFPT	497-5194-2-ND	0.5A, High-Side IPS Driver*	20-SOIC	3187.50/1,000		
TDE1898CDP	497-5425-5-ND	0.5A, High-Side IPS Driver*	8-Dip	7.13	6.51	5.15
TDE1898CFPT	497-4984-1-ND	0.5A, High-Side IPS Driver	20-SOIC	7.48	6.83	5.40
TDE1898CFPT	497-4984-2-ND	0.5A, High-Side IPS Driver	20-SOIC	4144.00/1,000		
TDE1898RDP	497-5426-5-ND	0.5A, High-Side IPS Driver*	8-Mini Dip	6.21	5.41	4.03
TDE1898RFPT	497-5233-1-ND	0.5A, High-Side IPS Driver*	20-SOIC	6.21	5.41	4.03
TDE1898RFPT	497-5233-2-ND	0.5A, High-Side IPS Driver*	20-SOIC	3059.00/1,000		
TDE3247FPT	497-5323-1-ND	Relay and Lamp Driver*	14-SOIC	4.54	3.95	2.94
TDE3247FPT	497-5323-2-ND	Relay and Lamp Driver*	14-SOIC	5375.00/2,500		
E-TEA3717DP	497-5056-5-ND	Stepper Motor Driver*	16-Power Dip	2.55	2.13	1.79
TEA3718DP	497-2188-5-ND	Stepper Motor Driver	16-Power Dip	3.19	2.78	2.07

STMicroelectronics INERTIAL HIGH PERFORMANCES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
LIS2L02AQ	497-4025-ND	Dual Axis Linear Accelerometer	44-QFN	9.20	8.40	6.64
LIS3LV02DL	497-5531-ND	LP Three Axis Linear Accelerometer*	16-LGA	12.30	11.38	8.61

STMicroelectronics Digi-Reel® INTERFACE

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
L603C	497-3639-ND	5V, Darlington Array	18-Dip	2.34	1.95	1.64
ST26C31BDR	497-2063-1-ND	Tri-State CMOS Quad Diff. Line Driver	16-SOIC	1.08	.87	.65
ST26C31BDR	497-2063-2-ND	Tri-State CMOS Quad Diff. Line Driver	16-SOIC	855.00/2,500		
ST26C31BN	497-2064-5-ND	Tri-State CMOS Quad Diff. Line Driver	16-Dip	1.08	.87	.65
ST26C31BTR	497-2065-1-ND	Tri-St. CMOS Quad Diff. Line Driver	16-TSSOP	1.01	.88	.68
ST26C31BTR	497-2065-2-ND	Tri-St. CMOS Quad Diff. Line Driver	16-TSSOP	897.50/2,500		
ST26C32ABDR	497-2066-1-ND	Tri-St. CMOS Quad Diff. Line Receiver	16-SOIC	1.08	.87	.65
ST26C32ABDR	497-2066-2-ND	Tri-St. CMOS Quad Diff. Line Receiver	16-SOIC	855.00/2,500		
ST26C32ABTR	497-2068-1-ND	Tri-St. CMOS Quad Diff. Line Recvr	16-TSSOP	1.13	.98	.75
ST26C32ABTR	497-2068-2-ND	Tri-St. CMOS Quad Diff. Line Recvr	16-TSSOP	997.50/2,500		
ST75C176BDR	497-2125-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	2.84	2.47	1.84
ST75C176BDR	497-2125-2-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	3360.00/2,500		
ST202BTR	497-2049-1-ND	5V, RS-232 Multi-Channel Driver and Receiver	16-TSSOP	1.24	1.08	.83
ST202BTR	497-2049-2-ND	5V, RS-232 Multi-Channel Driver and Receiver	16-TSSOP	1097.50/2,500		
ST202EBN	497-2051-5-ND	5V, RS-232 Transceiver	16-Dip	1.95	1.63	1.37
ST202EBWR	497-5844-1-ND	5V, RS-232 Transceiver*	16-SOIC	1.65	1.43	1.10
ST202EBWR	497-5844-2-ND	5V, RS-232 Transceiver*	16-SOIC	638.00/1,000		
ST202ECN	497-3009-5-ND	5V, RS-232 Transceiver	16-Dip	1.95	1.63	1.37
ST202ECWR	497-2052-1-ND	5V, RS-232 Transceiver	16-SOIC	1.61	1.40	1.08
ST207EBPR	497-6179-1-ND	5V, RS-232 Transceiver*	24-SSOP	2.34	1.95	1.64
ST207EBPR	497-6179-2-ND	5V, RS-232 Transceiver*	24-SSOP	1421.55/1,350		
ST232ABDR	497-2054-1-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.35	1.17	.90
ST232ABDR	497-2054-2-ND	5V, RS-232 Driver/Receiver	16-SOIC	1197.50/2,500		
ST232ACDR	497-3728-1-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.73	1.50	1.15
ST232ACDR	497-3728-2-ND	5V, RS-232 Driver/Receiver	16-SOIC	1530.00/2,500		
ST232ACN	497-3011-5-ND	5V, RS-232 Driver/Receiver	16-Dip	1.65	1.38	1.16
ST232ACW	497-3012-5-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.65	1.38	1.16
ST232BN	497-3014-5-ND	5V, RS-232 Multi-Ch. Driver/Receiver	16-Dip	1.95	1.63	1.37
ST232BTR	497-2057-1-ND	5V, RS-232 Multi-Ch. Driver/Recvr	16-TSSOP	2.10	1.75	1.47
ST232BTR	497-2057-2-ND	5V, RS-232 Multi-Ch. Driver/Recvr	16-TSSOP	2275.00/2,500		
ST232BW	497-3729-5-ND	5V, RS-232 Multi-Ch. Driver/Receiver	16-SOIC	2.10	1.75	1.47
ST232BWR	497-3729-1-ND	5V, RS-232 Multi-Ch. Driver/Receiver	16-SOIC	2.10	1.75	1.47
ST232BWR	497-3729-2-ND	5V, RS-232 Multi-Ch. Driver/Receiver	16-SOIC	945.00/1,000		
ST232CN	497-3017-5-ND	5V, RS-232 Multi-Ch. Driver/Receiver	16-Dip	1.95	1.63	1.37
ST232EBDR	497-2058-1-ND	5V, RS-232 Transceiver	16-SOIC	1.59	1.33	1.12
ST232EBDR	497-2058-2-ND	5V, RS-232 Transceiver	16-SOIC	1722.50/2,500		
ST232EBTR	497-2060-1-ND	5V, RS-232 Transceiver	16-TSSOP	1.59	1.33	1.12
ST232EBTR	497-2060-2-ND	5V, RS-232 Transceiver	16-TSSOP	1722.50/2,500		
ST232ECN	497-3019-5-ND	5V, RS-232 Transceiver	16-Dip	1.95	1.63	1.37
ST232ECWR	497-2062-1-ND	5V, RS-232 Transceiver	16-SOIC	1.95	1.63	1.37
ST232ECWR	497-2062-2-ND	5V, RS-232 Transceiver	16-SOIC	878.00/1,000		
ST485ABDR	497-2082-1-ND	HS, LP, RS-485/RS-422 Transceiver	8-SOIC	3.38	2.94	2.19
ST485ABDR	497-2082-2-ND	HS, LP, RS-485/RS-422 Transceiver	8-SOIC	4000.00/2,500		
ST485BDR	497-3733-1-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	1.54	1.34	1.03
ST485BDR	497-3733-2-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	1362.50/2,500		
ST485CDR	497-3734-1-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	1.35	1.17	.90
ST485CDR	497-3734-2-ND	5V, LP, RS-485/RS-422 Transceiver	8-SOIC	1197.50/2,500		
ST485EBDR	497-2083-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	1.58	1.37	1.05
ST485EBDR	497-2083-2-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	1397.50/2,500		
ST485ECDR	497-3735-1-ND	5V, Low Power, RS-485/RS-422 Transceiver, ESD Protection	8-SOIC	3.51	3.06	2.28
ST485ECDR	497-3735-2-ND	5V, Low Power, RS-485/RS-422 Transceiver, ESD Protection	8-SOIC	4160.00/2,500		
ST485ERBDR	497-2085-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	4.73	4.12	3.07
ST485ERBDR	497-2085-2-ND	Low Power, RS-485/RS-422 Transceiver	8-SOIC	5600.00/2,500		
ST485ERXDR	497-2087-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	4.32	3.76	2.80
ST485ERXN	497-2088-5-ND	LP, RS-485/RS-422 Transceiver	8-Dip	4.32	3.76	2.80
ST485EXDR	497-2089-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	4.32	3.76	2.80
ST485EXDR	497-2089-2-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	5120.00/2,500		
ST490ABDR	497-2091-1-ND	LP, HS, RS-485/RS-422 Transceiver	8-SOIC	2.10	1.75	1.47
ST490ABDR	497-2091-2-ND	LP, HS, RS-485/RS-422 Transceiver	8-SOIC	2275.00/2,500		
ST491ACN	497-4652-5-ND	LP, HS, RS-485/RS-422 Transceiver	14-Dip	2.79	2.33	1.96
ST1480ABDR	497-2046-1-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	3.24	2.82	2.10
ST1480ABDR	497-2046-2-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	3840.00/2,500		
ST1480ABN	497-2047-5-ND	3.3V, RS-485/RS-422 Transceiver	8-Dip	3.24	2.82	2.10
ST1480ACDR	497-3726-1-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	2.97	2.59	1.93
ST1480ACDR	497-3726-2-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	3520.00/2,500		
ST3222BTR	497-5845-1-ND	3V to 3.6V, Low Power, RS-232 Driver/Receiver*	20-TSSOP	1.89	1.58	1.33
ST3222BTR	497-5845-2-ND	3V to 3.6V, Low Power, RS-232 Driver/Receiver*	20-TSSOP	2047.50/2,500		
ST3232BWR	497-5242-1-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver*	16-SOIC	2.70	2.35	1.75
ST3232BWR	497-5242-2-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver*	16-SOIC	1330.00/1,000		

***** RoHS Compliant*

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STMicroelectronics Digi-Reel® INTERFACE *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
ST3232CDR	497-3731-1-ND	3V-5.5V, LP, RS-232 Driver/Receiver	16-SOIC	2.07	1.73	1.45
ST3232CDR	497-3731-2-ND	3V-5.5V, LP, RS-232 Driver/Receiver	16-SOIC	2242.50/2,500		
ST3232CWR	497-5243-1-ND	3V-5.5V, Low Power, RS-232 Driver/Receiver*	16-SOIC	2.55	2.13	1.79
ST3232CWR	497-5243-2-ND	3V-5.5V, Low Power, RS-232 Driver/Receiver*	16-SOIC	1148.00/1,000		
ST3232EBPR	497-4312-1-ND	3V-5.5V, LP, RS-232 Driver/Receiver	16-SSOP	3.51	3.06	2.28
ST3232EBPR	497-4312-2-ND	3V-5.5V, LP, RS-232 Driver/Receiver	16-SSOP	2334.15/1,350		
ST3232EBWR	497-2072-1-ND	3V-5.5V, LP, RS-232 Driver/Receiver	16-SOIC	3.51	3.06	2.28
ST3232ECWR	497-2073-1-ND	3V-5.5V, LP, RS-232 Driver/Receiver	16-SOIC	3.24	2.82	2.10
ST3232ECWR	497-2073-2-ND	3V-5.5V, LP, RS-232 Driver/Receiver	16-SOIC	1596.00/1,000		
ST3237EBDR	497-2074-1-ND	3V to 5.5V, 250Kbps, RS-232 Transceiver	28-SOIC	4.32	3.76	2.80
ST3237EBDR	497-2074-2-ND	3V to 5.5V, 250Kbps, RS-232 Transceiver	28-SOIC	2128.00/1,000		
ST3241ECDR	497-4779-1-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver, ESD Protected	28-SOIC	2.97	2.59	1.93
ST3241ECPR	497-4947-1-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver, ESD Protected	28-SSOP	2.97	2.48	2.08
ST3241ECPR	497-4947-2-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver, ESD Protected	28-SSOP	1804.95/1,350		
ST3243BTR	497-4768-1-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver	28-TSSOP	3.24	2.82	2.10
ST3243CPR	497-3732-1-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver	28-SSOP	2.70	2.35	1.75
ST3243CPR	497-3732-2-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver	28-SSOP	1795.50/1,350		
ST3243EBDR	497-2076-1-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver	28-SOIC	3.13	2.73	2.03
ST3243EBDR	497-2076-2-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver	28-SOIC	1543.00/1,000		
ST3243EBJR	497-2077-1-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver	28-Flip-Chip	3.24	2.82	2.10
ST3243EBJR	497-2077-2-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver	28-Flip-Chip	3840.00/2,500		
ST3243EBTR	497-2078-1-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver	28-TSSOP	2.40	2.00	1.68
ST3243EBTR	497-2078-2-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver	28-TSSOP	2600.00/2,500		
ST3243ECDR	497-4767-1-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver	28-SOIC	2.70	2.25	1.89
ST3243ECDR	497-4767-2-ND	3V to 5.5V, 400Kbps, RS-232 Transceiver	28-SOIC	1215.00/1,000		
ST3384EBDR	497-2079-1-ND	3V to 5.5V, Low Power, Up to 250Kbps, RS-232 Transceiver	18-SOIC	2.70	2.25	1.89
ST3485EBDR	497-2080-1-ND	3.3V, Up to 12Mbps, RS-485/RS-422, Transceiver	8-SOIC	3.11	2.71	2.02
ST7538P013TR	497-4316-1-ND	Power Line FSK Transceiver	44-TQFP	10.80	9.99	7.56
ST7538P013TR	497-4316-2-ND	Power Line FSK Transceiver	44-TQFP	6750.00/1,000		
ST7538Q	497-5525-ND	Power Line FSK Transceiver*	44-TQFP	10.80	9.99	7.56
ST7538QTR	497-5526-1-ND	Power Line FSK Transceiver*	44-TQFP	10.80	9.99	7.56
ST7538QTR	497-5526-2-ND	Power Line FSK Transceiver*	44-TQFP	6750.00/1,000		
ST7540TR	497-5528-1-ND	Power Line FSK Transceiver*	28-HTTSOP	10.30	9.53	7.21
ST7540TR	497-5528-2-ND	Power Line FSK Transceiver*	28-HTTSOP	15965.00/2,500		
ST8004CDR	497-4318-1-ND	SmartCard Interface	28-SOIC	3.24	2.82	2.10
ST8004CDR	497-4318-2-ND	SmartCard Interface	28-SOIC	1596.00/1,000		
ST8024CDR	497-4763-1-ND	SmartCard Interface	28-SOIC	2.43	2.03	1.71
ST8024CDR	497-4763-2-ND	SmartCard Interface	28-SOIC	1094.00/1,000		
ST75185CDR	497-2121-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.77	.62	.43
ST75185CDR	497-2121-2-ND	Multiple RS-232 Driver/Receiver	20-SOIC	264.00/1,000		
ST75185CPR	497-2122-1-ND	Multiple RS-232 Driver/Receiver	20-SSOP	1.73	1.50	1.15
ST75185CTR	497-5846-1-ND	Multiple RS-232 Driver/Receiver*	20-TSSOP	.81	.65	.49
ST75185CTR	497-5846-2-ND	Multiple RS-232 Driver/Receiver*	20-TSSOP	642.50/2,500		
ST75285CTR	497-2123-1-ND	Multiple RS-232 Driver/Receiver	38-TSSOP	2.10	1.75	1.47
STOTG04EQTR	497-5128-1-ND	USB-OTG Full-Speed Transceiver*	24-QFN	3.24	2.82	2.10
STOTG04EQTR	497-5128-2-ND	USB-OTG Full-Speed Transceiver*	24-QFN	6144.00/4,000		
STLVD111BFR	497-2146-1-ND	Programmable Low Voltage 1:10 Diff. LVDS Clock Driver	32-TQFP	22.31	19.13	16.96
STLVDS050BDR	497-2147-1-ND	HS Differential Line Driver/Receiver	16-SOIC	2.70	2.25	1.89
STLVDS32BDR	497-2148-1-ND	HS Differential Line Receiver	16-SOIC	2.55	2.13	1.79
STLVDS32BTR	497-4748-1-ND	HS Differential Line Receiver	16-TSSOP	3.38	2.94	2.19
STLVDS32BTR	497-4748-2-ND	HS Differential Line Receiver	16-TSSOP	4000.00/2,500		
STLVDS385BTR	497-2150-1-ND	+3.3V, Prog. LVDS TX 24-Bit FPD Link-85MHz	56-TSSOP	7.36	6.72	5.32
STLVDS385BTR	497-2150-2-ND	+3.3V, Prog. LVDS TX 24-Bit FPD Link-85MHz	56-TSSOP	8160.00/2,000		
STLVDS3486BDR	497-2149-1-ND	High Speed, Differential Line Receiver	16-SOIC	3.38	2.94	2.19
STPM01FTR	497-4762-1-ND	Prog. Single Phase Energy Metering IC	20-TSSOP	10.00	9.25	7.00
STPM01FTR	497-4762-2-ND	Prog. Single Phase Energy Metering IC	20-TSSOP	15500.00/2,500		
STPM11ATR	497-5984-1-ND	Single Phase Energy Metering IC*	20-TSSOP	4.32	3.76	2.80
STPM11ATR	497-5984-2-ND	Single Phase Energy Metering IC*	20-TSSOP	5120.00/2,500		
STPM12ATR	497-5985-1-ND	Single Phase Energy Metering IC*	20-TSSOP	4.32	3.76	2.80
STPM12ATR	497-5985-2-ND	Single Phase Energy Metering IC*	20-TSSOP	5120.00/2,500		
STPM13ATR	497-5986-1-ND	Single Phase Energy Metering IC*	20-TSSOP	4.32	3.76	2.80
STPM13ATR	497-5986-2-ND	Single Phase Energy Metering IC*	20-TSSOP	5120.00/2,500		
STPM14ATR	497-5987-1-ND	Single Phase Energy Metering IC*	20-TSSOP	4.32	3.76	2.80
STPM14ATR	497-5987-2-ND	Single Phase Energy Metering IC*	20-TSSOP	5120.00/2,500		
STSMIA832TBR	497-5147-1-ND	1.8V/2.8V HS Dual Diff. Line Receiver*	25-TFBGA	3.78	3.29	2.45
STSMIA832TBR	497-5147-2-ND	1.8V/2.8V HS Dual Diff. Line Receiver*	25-TFBGA	6272.00/3,500		
STUSB02EQR	497-4983-1-ND	USB Transceiver	16-QFN	.94	.82	.63
STUSB02EQR	497-4983-2-ND	USB Transceiver	16-QFN	999.00/3,000		
E-ULN2001A	497-4606-5-ND	Seven Darlington Array*	16-Dip	.95	.76	.57
ULN2001D1013TR	497-2341-1-ND	Seven Darlington Array	16-SOIC	.95	.76	.57
ULN2001D1013TR	497-2341-2-ND	Seven Darlington Array	16-SOIC	747.50/2,500		
ULN2002A	497-4549-ND	Seven Darlington Array*	16-Dip	.95	.76	.57
ULN2002D1013TR	497-2343-1-ND	Seven Darlington Array	16-SOIC	.95	.76	.57
ULN2002D1013TR	497-2343-2-ND	Seven Darlington Array	16-SOIC	747.50/2,500		
ULN2003A	497-2344-5-ND	Seven Darlington Array	16-Dip	.68	.54	.41
ULN2003D1013TR	497-2345-1-ND	Seven Darlington Array	16-SOIC	.60	.48	.36
ULN2003D1013TR	497-2345-2-ND	Seven Darlington Array	16-SOIC	450.00/2,500		
ULN2004D1013TR	497-2347-1-ND	Seven Darlington Array	16-SOIC	.95	.76	.57
ULN2004D1013TR	497-2347-2-ND	Seven Darlington Array	16-SOIC	747.50/2,500		
ULN2064B	497-2348-5-ND	50V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2065B	497-2349-5-ND	80V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2067B	497-2350-5-ND	80V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2068B	497-2351-5-ND	50V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2069B	497-2352-5-ND	80V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2074B	497-2353-5-ND	50V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2075B	497-3084-5-ND	80V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2801A	497-2354-5-ND	Eight Darlington Array	18-Dip	1.05	.91	.70
ULN2802A	497-2355-5-ND	Eight Darlington Array	18-Dip	1.05	.91	.70
ULN2803A	497-2356-5-ND	Eight Darlington Array	18-Dip	1.05	.91	.70
ULN2804A	497-2357-5-ND	Eight Darlington Array	18-Dip	1.05	.91	.70
E-ULQ2003A	497-4609-5-ND	Seven Darlington Array*	16-Dip	1.01	.88	.68
ULQ2003D1013TR	497-2359-1-ND	Seven Darlington Array	16-SOIC	1.01	.88	.68
ULQ2003D1013TR	497-2359-2-ND	Seven Darlington Array	16-SOIC	897.50/2,500		
E-ULQ2003D1	497-4610-5-ND	Seven Darlington Array*	16-SOIC	1.01	.88	.68
ULQ2004A	497-2360-5-ND	Seven Darlington Array	16-Dip	1.01	.88	.68
ULQ2004D1013TR	497-2361-1-ND	Seven Darlington Array	16-SOIC	1.01	.88	.68
ULQ2004D1013TR	497-2361-2-ND	Seven Darlington Array	16-SOIC	897.50/2,500		

STMicroelectronics Digi-Reel® IPAD

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
EMIF01-10005W5	497-3708-1-ND	1 Line EMI Filter*	SOT-323-5	1.09	.95	.73
EMIF01-10005W5	497-3708-2-ND	1 Line EMI Filter*	SOT-323-5	1158.00/3,000		
EMIF02-MIC02F2	497-3782-1-ND	2 Lines EMI Filter, ESD Protection	Flip Chip	1.13	.98	.75
EMIF02-MIC02F2	497-3782-2-ND	2 Lines EMI Filter, ESD Protection	Flip Chip	1915.00/5,000		
EMIF02-MIC03C2	497-5902-1-ND	2 Lines EMI Filter, ESD Protection*	5-Flip Chip	1.13	.98	.75
EMIF02-MIC03C2	497-5902-2-ND	2 Lines EMI Filter, ESD Protection*	5-Flip Chip	1915.00/5,000		
EMIF02-USB01F2	497-5333-1-ND	2 Lines EMI Filter, ESD Protection*	8-Flip Chip	1.13	.98	.75
EMIF02-USB01F2	497-5333-2-ND	2 Lines EMI Filter, ESD Protection*	8-Flip Chip	1915.00/5,000		
EMIF02-USB05C2	497-4613-1-ND	2 Lines EMI Filter, ESD Protection*	Flip Chip	1.13	.98	.75
EMIF02-USB05C2	497-4613-2-ND	2 Lines EMI Filter, ESD Protection*	Flip Chip	1915.00/5,000		
EMIF03-SIM01	497-3709-1-ND	3 Lines EMI Filter	Flip Chip	1.09	.95	.73
EMIF03-SIM01	497-3709-2-ND	3 Lines EMI Filter	Flip Chip	1850.00/5,000		
EMIF04-VID01F2	497-4614-1-ND	4 Lines Low Capacitance EMI Filter, ESD Protection*	Flip Chip	.94	.82	.63
EMIF04-VID01F2	497-4614-2-ND	4 Lines Low Capacitance EMI Filter, ESD Protection*	Flip Chip	1595.00/5,000		
EMIF06-MSD01F2	497-5903-1-ND	6 Lines EMI Filter, ESD Protection*	16-Flip Chip	1.50	1.30	1.00
EMIF06-MSD01F2	497-5903-2-ND	6 Lines EMI Filter, ESD Protection*	16-Flip Chip	2550.00/5,000		
EMIF06-VID01F2	497-4543-1-ND	6 Lines Low Capacitance EMI Filter*	Flip Chip	1.31	1.14	.88
EMIF06-VID01F2	497-4543-2-ND	6 Lines Low Capacitance EMI Filter*	Flip Chip	2230.00/5,000		
ST1284-01A8	497-2565-5-ND	Single Termination Network*	28-QSOP	2.85	2.38	2.00
ST1394-01SC6	497-3725-1-ND	IEEE1394 One Port Cable Termination Network with ESD Protection*	SOT-23-6	1.13	.98	.75
ST1394-01SC6	497-3725-2-ND	IEEE1394 One Port Cable Termination Network with ESD Protection*	SOT-23-6	1197.00/3,000		
STOD2540PMR	497-6131-1-ND	Passive Matrix OLED Power Supply*	8-QFN	2.73	2.38	1.77
STOD2540PMR	497-6131-2-ND	Passive Matrix OLED Power Supply*	8-QFN	3879.00/3,000		
USBDF01W5	497-3086-1-ND	EMI Filter and Line Termination	SOT-323-5L	.79	.64	.48
USBDF01W5	497-3086-2-ND	EMI Filter and Line Termination	SOT-323-5L	753.00/3,000		
USBDF02W5	497-3742-1-ND	EMI Filter and Line Termination for USB Downstream Ports	SOT-323-5	1.35	1.17	.90
USBDF02W5	497-3742-2-ND	EMI Filter and Line Termination for USB Downstream Ports	SOT-323-5	1436.40/3,000		
USBUF01P6	497-3282-1-ND	EMI Filter/Line Termination	SOT-666	.90	.72	.54
USBUF01P6	497-3282-2-ND	EMI Filter/Line Termination*	SOT-666	855.00/3,000		
USBUF01W6	497-3087-1-ND	EMI Filter and Line Termination	SOT-323-6L	1.35	1.17	.90
USBUF01W6	497-3087-2-ND	EMI Filter and Line Termination	SOT-323-6L	1436.40/3,000		
USBUF02W6	497-3743-1-ND	EMI Filter and Line Termination for USB Upstream Ports*	SOT-323-6	1.08	.87	.65
USBUF02W6	497-3743-2-ND	EMI Filter and Line Termination for USB Upstream Ports*	SOT-323-6	1026.00/3,000		

STMicroelectronics Digi-Reel® MEMORY

RoHS Compliant Parts Available

EPROM

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M27C64A-10F1	497-1684-5-ND	64K-Bit (8Kb x 8), 100nS, UV EPROM	28-FDip	6.90	6.30	4.98
M27C64A-15F1	497-1685-5-ND	64K-Bit (8Kb x 8), 150nS, UV EPROM	28-FDip	5.75	5.25	4.15
M27C64A-20F1	497-1686-5-ND	64K-Bit (8Kb x 8), 200nS, UV EPROM	28-FDip	6.90	6.30	4.98
M27C256B-10F1	497-1642-5-ND	256K-Bit (32Kb x 8), 100nS, UV EPROM	28-FDip	4.05	3.53	2.63
M27C256B-12F1	497-1646-5-ND	256K-Bit (32Kb x 8), 120nS, UV EPROM	28-FDip	4.05	3.53	2.63
M27C256B-12F6	497-1647-5-ND	256K-Bit (32Kb x 8), 120nS, UV EPROM	28-FDip	4.05	3.53	2.63
M27C256B-15F1	497-1650-5-ND	256K-Bit (32Kb x 8), 150nS, UV EPROM	28-FDip	4.05	3.53	2.63
M27C256B-90F6	497-1656-5-ND	256K-Bit (32Kb x 8), 90nS, OTP EPROM	28-FDip	4.05	3.53	2.63
M27C512-10F1	497-1667-5-ND	512K-Bit (64Kb x 8), 100nS, UV EPROM	28-FDip	4.19	3.65	2.72
M27C512-12F1	497-1671-5-ND	512K-Bit (64Kb x 8), 120nS, UV EPROM	28-FDip	4.19	3.65	2.72

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M27C512-15F6	497-1676-5-ND	512K-Bit (64Kb x 8), 150nS, UV EPROM	28-FDip	4.19	3.65	2.72
M27C512-70C6	497-1678-5-ND	512K-Bit (64Kb x 8), 70nS, OTP EPROM	32-PLCC	2.07	1.73	1.45
M27C512-70XF1	497-1679-5-ND	512K-Bit (64Kb x 8), 70nS, UV EPROM	28-FDip	4.19	3.65	2.72
M27C512-90B6	497-1682-5-ND	512K-Bit (64Kb x 8), 90nS, OTP EPROM	28-PDip	2.28	1.90	1.60
M27C801-100B1	497-1687-5-ND	8M-Bit (1Mb x 8), 100nS, OTP EPROM	32-PDip	5.75	5.25	4.15
M27C801-100F1	497-1688-5-ND	8M-Bit (1Mb x 8), 100nS, UV EPROM	32-FDip	7.80	7.12	5.63
M27C801-100N1	497-1689-5-ND	8M-Bit (1Mb x 8), 100nS, OTP EPROM	32-TSOP	8.05	7.35	5.81
M27C801-120B1	497-1690-5-ND	8M-Bit (1Mb x 8), 120nS, OTP EPROM	32-PDip	5.75	5.25	4.15
M27C1001-10B1	497-1625-5-ND	1M-Bit (128Kb x 8), 100nS, OTP EPROM	32-PDip	2.94	2.45	2.06
M27C1001-10F1	497-1627-5-ND	1M-Bit (128Kb x 8), 100nS, UV EPROM	32-FDip	4.97	4.33	3.22
M27C1001-12C6	497-1630-5-ND	1M-Bit (128Kb x 8), 120nS, OTP EPROM	32-PLCC	2.76	2.30	1.94
M27C1001-12F1	497-1631-5-ND	1M-Bit (128Kb x 8), 120nS, UV EPROM	32-FDip	4.97	4.33	3.22
M27C1001-12F6	497-1632-5-ND	1M-Bit (128Kb x 8), 120nS, UV EPROM	32-FDip	4.97	4.33	3.22
M27C1001-15F1	497-1635-5-ND	1M-Bit (128Kb x 8), 150nS, UV EPROM	32-FDip	4.97	4.33	3.22
M27C1001-70F1	497-1637-5-ND	1M-Bit (128Kb x 8), 70nS, UV EPROM	32-FDip	4.97	4.33	3.22
M27C2001-10B1	497-1638-5-ND	2M-Bit (256Kb x 8), 100nS, OTP EPROM	32-PDip	2.81	2.45	1.82
M27C2001-10F1	497-1639-5-ND	2M-Bit (256Kb x 8), 100nS, UV EPROM	32-FDip	6.53	5.69	4.24
M27C4001-10B1	497-1657-5-ND	4M-Bit (512Kb x 8), 100nS, OTP EPROM	32-PDip	3.27	2.85	2.12
M27C4001-10F1	497-1658-5-ND	4M-Bit (512Kb x 8), 100nS, UV EPROM	32-FDip	6.74	6.16	4.87
M27C4001-12F1	497-1661-5-ND	4M-Bit (512Kb x 8), 120nS, UV EPROM	32-FDip	6.74	6.16	4.87
M27C4001-15F1	497-1663-5-ND	4M-Bit (512Kb x 8), 150nS, UV EPROM	32-FDip	7.80	7.12	5.63
M27C4001-80XF1	497-1664-5-ND	4M-Bit (512Kb x 8), 80nS, UV EPROM	32-FDip	6.74	6.16	4.87
M27C4002-10B1	497-1665-5-ND	4M-Bit (256Kb x 16), 100nS, OTP EPROM	40-PDip	6.37	5.55	4.13
M27C4002-10C1	497-5674-5-ND	4M-Bit (256Kb x 16), 120nS, OTP EPROM*	44-PLCC	6.05	5.27	3.92
M27W101-80K6	497-1691-5-ND	1M-Bit (128Kb x 8), Low Voltage, 80nS, OTP EPROM	32-PLCC	2.85	2.38	2.00
M27W201-80K6	497-1692-5-ND	2M-Bit (256Kb x 8), Low Voltage, 80nS, OTP EPROM	32-PLCC	2.94	2.45	2.06
M27W401-80K6	497-1693-5-ND	4M-Bit (512Kb x 8), Low Voltage, 80nS, OTP EPROM	32-PLCC	3.27	2.85	2.12

EEPROM

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M24C01-WMN6T	497-1602-1-ND	2.5V, 1K-Bit Serial EEPROM	8-SOIC	1.31	1.14	.88
M24C01-WMN6T	497-1602-2-ND	2.5V, 1K-Bit Serial EEPROM	8-SOIC	1165.00/2,500		
M24C02-RDW6T	497-1605-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	1.43	1.24	.95
M24C02-RDW6T	497-1605-2-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	2020.00/4,000		
M24C02-WDW6TP	497-4926-1-ND	2.5V, 2K-Bit Serial EEPROM	8-TSSOP	.59	.48	.36
M24C02-WDW6TP	497-4926-2-ND	2.5V, 2K-Bit Serial EEPROM	8-TSSOP	708.00/4,000		
M24C04-MN6T	497-1610-1-ND	5.5V, 4K-Bit Serial EEPROM	8-SOIC	1.50	1.30	1.00
M24C04-WDW6TP	497-5088-1-ND	2.5V, 4K-Bit Serial EEPROM	8-TSSOP	.65	.52	.39
M24C04-WDW6TP	497-5088-2-ND	2.5V, 4K-Bit Serial EEPROM	8-TSSOP	780.00/4,000		
M24C08-BN6	497-1613-5-ND	5.5V, 8K-Bit Serial EEPROM	8-PDip	1.56	1.30	1.10
M24C32-WMN6TP	497-5027-1-ND	2.5V, 32K-Bit Serial EEPROM	8-SOIC	.90	.72	.54
M24C32-WMN6TP	497-5027-2-ND	2.5V, 32K-Bit Serial EEPROM	8-SOIC	712.50/2,500		
M24M01-RMN6TP	497-6351-1-ND	5.5V, 1M-Bit Serial EEPROM ***NEW!***	8-SOIC	2.97	2.59	1.93
M24M01-RMN6TP	497-6351-2-ND	5.5V, 1M-Bit Serial EEPROM ***NEW!***	8-SOIC	3520.00/2,500		
M34C02-LDW6T	497-1722-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	1.80	1.44	1.08
M34C02-LDW6TP	497-5087-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	1.50	1.30	1.00
M34C02-LDW6TP	497-5087-2-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	2128.00/4,000		
M34C02-WDW6T	497-1723-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	1.13	.98	.75
M41T56C64MY6F	497-5294-1-ND	512-Bit, Serial EEPROM*	18-SOIC	3.89	3.39	2.52
M41T56C64MY6F	497-5294-2-ND	512-Bit, Serial EEPROM*	18-SOIC	1915.00/1,000		
M93C46-WMN6T	497-1929-1-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	1.13	.98	.75
M93C46-WMN6TP	497-5090-1-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM*	8-SOIC	.58	.47	.35
M93C46-WMN6TP	497-5090-2-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM*	8-SOIC	435.00/2,500		
M93C56-WMN6T	497-1931-1-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	1.31	1.14	.88
M93C56-WMN6T	497-1931-2-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	1165.00/2,500		
M93C66-MN6T	497-1933-1-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	1.58	1.37	1.05
M93C66-WMN6T	497-1935-1-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	1.58	1.37	1.05
M93C66-WMN6T	497-1935-2-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	1397.50/2,500		
M93C86-MN6T	497-1936-1-ND	5.5V, 16K-Bit Microwire Serial Access EEPROM	8-SOIC	1.03	.83	.62
M93C86-MN6T	497-1936-2-ND	5.5V, 16K-Bit Microwire Serial Access EEPROM	8-SOIC	812.25/2,500		
M93C86-WMN6P	497-4927-5-ND	5.5V, 16K-Bit Microwire Serial Access EEPROM	8-SOIC	1.03	.83	.62
M93S46-WMN6T	497-1940-1-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	1.31	1.14	.88
M93S56-WMN6	497-1942-5-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	1.76	1.53	1.18
M93S56-WMN6T	497-1943-1-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	1.84	1.60	1.23
M93S56-WMN6T	497-1943-2-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	1630.00/2,500		
M24256-BRDW6TP	497-6347-1-ND	5.5V, 256K-Bit Serial EEPROM* ***NEW!***	8-TSSOP	1.95	1.63	1.37
M24256-BRDW6TP	497-6347-2-ND	5.5V, 256K-Bit Serial EEPROM* ***NEW!***	8-TSSOP	3380.00/4,000		
M24256-BRMN6TP	497-6348-1-ND	5.5V, 256K-Bit Serial EEPROM* ***NEW!***	8-SOIC	1.95	1.63	1.37
M24256-BRMN6TP	497-6348-2-ND	5.5V, 256K-Bit Serial EEPROM* ***NEW!***	8-SOIC	2112.50/2,500		
M24256-BWMN6T	497-1601-1-ND	5.5V, 256K-Bit Serial EEPROM	8-SOIC	3.92	3.41	2.54
M24256-BWMN6T	497-1601-2-ND	5.5V, 256K-Bit Serial EEPROM	8-SOIC	4640.00/2,500		
M24512-RDW6TP	497-6349-1-ND	5.5V, 512K-Bit Serial EEPROM* ***NEW!***	8-TSSOP	2.55	2.13	1.79
M24512-RDW6TP	497-6349-2-ND	5.5V, 512K-Bit Serial EEPROM* ***NEW!***	8-TSSOP	4420.00/4,000		
M24512-RMN6TP	497-6350-1-ND	5.5V, 512K-Bit Serial EEPROM* ***NEW!***	8-SOIC	2.55	2.13	1.79
M24512-RMN6TP	497-6350-2-ND	5.5V, 512K-Bit Serial EEPROM* ***NEW!***	8-SOIC	2762.50/2,500		
M95040-WMN6T	497-1945-1-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM	8-SOIC	1.50	1.30	1.00
M95040-WMN6TP	497-5286-1-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM*	8-SOIC	.88	.71	.53
M95040-WMN6TP	497-5286-2-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM*	8-SOIC	695.00/2,500		
M95080-WMN6T	497-1946-1-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM	8-SOIC	1.69	1.47	1.13
M95080-WMN6T	497-1946-2-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM	8-SOIC	1497.50/2,500		
M95256-RDW6TP	497-6352-1-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM* ***NEW!***	8-TSSOP	2.55	2.13	1.79
M95256-RDW6TP	497-6352-2-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM* ***NEW!***	8-TSSOP	4420.00/4,000		
M95256-RMN6TP	497-6354-1-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM* ***NEW!***	8-SOIC	2.55	2.13	1.79
M95256-RMN6TP	497-6354-2-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM* ***NEW!***	8-SOIC	2762.50/2,500		
M95256-RMN6P	497-6353-5-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM* ***NEW!***	8-SOIC	2.55	2.13	1.79
M95256-WDW6TP	497-6355-1-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM* ***NEW!***	8-TSSOP	2.55	2.13	1.79
M95256-WDW6TP	497-6355-2-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM* ***NEW!***	8-TSSOP	4420.00/4,000		
M95256-WMN6P	497-6357-5-ND	5.5V, 256K-Bit Serial SPI Bus EEPROM* ***NEW!***	8-SOIC	2.18	1.82	1.53
M95512-RDW6TP	497-6358-1-ND	5.5V, 512K-Bit Serial SPI Bus EEPROM* ***NEW!***	8-TSSOP	2.70	2.25	1.89
M95512-RDW6TP	497-6358-2-ND	5.5V, 512K-Bit Serial SPI Bus EEPROM* ***NEW!***	8-TSSOP	4680.00/4,000		
M95512-RMN6TP	497-6356-1-ND	5.5V, 512K-Bit Serial SPI Bus EEPROM* ***NEW!***	8-SOIC	2.70	2.25	1.89
M95512-RMN6TP	497-6356-2-ND	5.5V, 512K-Bit Serial SPI Bus EEPROM* ***NEW!***	8-SOIC	2925.00/2,500		
M95640-WMN6T	497-1947-1-ND	5.5V, 64K-Bit Serial SPI Bus EEPROM	8-SOIC	2.97	2.59	1.93
M95640-WMN6T	497-1947-2-ND	5.5V, 64K-Bit Serial SPI Bus EEPROM	8-SOIC	3520.00/2,500		

Flash

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M25P05-AVMN6T	497-1621-1-ND	3.6V, 512K-Bit Serial Flash	8-SOIC	2.84	2.47	1.84
M25P05-AVMN6T	497-1621-2-ND	3.6V, 512K-Bit Serial Flash	8-SOIC	3360.00/2,500		
M25P10-AVMP6T	497-3592-1-ND	3.6V, 1M-Bit Serial Flash	8-VDFPN	3.38	2.94	2.19
M25P10-AVMP6T	497-3592-2-ND	3.6V, 1M-Bit Serial Flash	8-VDFPN	6400.00/4,000		
M25P20-VMP6	497-3595-ND	3.6V, 2M-Bit Serial Flash	8-VDFPN	4.05	3.53	2.63
M25P40-VMN6P	497-3598-ND	3.6V, 4M-Bit Serial Flash	8-SOIC	2.84	2.37	2.00
M28W320CB90N6	497-1694-ND	32M-Bit (2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	17.50	15.00	13.30
M28W320ECB70ZB6T	497-1696-1-ND	32M-Bit (2Mb x 16), Bottom Boot, 3V Flash Memory	47-TFBGA	14.00	12.95	9.80
M28W320ECB70ZB6T	497-1696-2-ND	32M-Bit (2Mb x 16), Bottom Boot, 3V Flash Memory	47-TFBGA	21700.00/2,500		
M28W320ECT70ZB6T	497-1697-1-ND	32M-Bit (2Mb x 16), Top Boot, 3V Flash Memory	47-TFBGA	14.00	12.95	9.80
M28W320ECT70ZB6T	497-1697-2-ND	32M-Bit (2Mb x 16), Top Boot, 3V Flash Memory	47-TFBGA	21700.00/2,500		
M29DW323DB70N6	497-1699-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	9.09	8.30	6.56
M29F200BB70N6T	497-1707-1-ND	2M-Bit (256Kb x 8 or 128Kb x 16), 70nS, Single Flash Memory	48-TSOP	3.11	2.71	2.02
M29F200BB70N6T	497-1707-2-ND	2M-Bit (256Kb x 8 or 128Kb x 16), 70nS, Single Flash Memory	48-TSOP	2295.00/1,500		
M29F400BB70N6T	497-1708-1-ND	4M-Bit (512Kb x 8 or 256Kb x 16), 70nS, Single Flash Memory	48-TSOP	9.20	8.40	6.64
M29F400BT70N6	497-1709-ND	4M-Bit (512Kb x 8 or 256Kb x 16), 70nS, Single Flash Memory	48-TSOP	9.20	8.40	6.64
M29W160EB90N6	497-1712-ND	16M-Bit (2Mb x 8 or 1Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	5.40	4.70	3.50
M29W400BB90N6	497-1715-ND	4M-Bit (512Kb x 8 or 256Kb x 16), Bottom Boot Low Voltage Single Flash Memory	48-TSOP	3.38	2.94	2.19
PSD813F1A-12JI	497-1973-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLDCC	15.62	14.45	10.94
PSD813F1VA-15J	497-1981-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	15.18	14.05	10.63
PSD813F1VA-15M	497-1982-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	15.18	14.05	10.63
PSD813F1VA-15U	497-1983-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	16.38	15.15	11.47
PSD813F1VA-20JI	497-1984-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	16.54	15.30	11.58
PSD813F2VA-15U	497-1996-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	15.11	13.98	10.58
PSD813F2VA-20JI	497-1997-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	15.16	14.03	10.62
PSD813F2VA-20UI	497-1999-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	16.35	15.13	11.45
PSD833F2-90M	497-2002-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	14.67	13.58	10.28
PSD833F2-90MI	497-2003-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	13.90	12.86	9.73
PSD834F2-90J	497-2006-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	17.27	15.98	12.10
PSD834F2-90JI	497-2007-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	18.81	17.41	13.17
PSD834F2V-15J	497-2010-5-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	18.31	16.94	12.82
PSD834F2V-15M	497-2011-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	18.31	16.94	12.82

***** ***RoHS Compliant***

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STMicroelectronics Digi-Reel® MEMORY *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
PSD834F2V-20JI	497-2012-5-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	19.94	18.45	13.96
PSD835G2-90UI	497-2016-ND	5V, 4M-Bit Config. Memory System on a Chip for 8-Bit MCU's	80-TQFP	20.00	17.15	15.21
PSD835G2V-12UI	497-2017-ND	3V, 4M-Bit Config. Memory System on a Chip for 8-Bit MCU's	80-TQFP	21.86	18.74	16.62
PSD853F2-70M	497-2020-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	19.69	18.22	13.79
PSD854F2-90MI	497-2030-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	19.58	16.79	14.89
PSD854F2V-12JI	497-2031-5-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	20.75	17.79	15.77
PSD854F2V-90M	497-2034-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	19.04	16.32	14.47

Memory Cards

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	1	10	100
SMC064AFF6E	497-5042-ND	64Mb Compact Flash Card	—	26.25	22.50	19.95
SMC512AFB6E	497-5045-ND	512Mb Compact Flash Card	—	78.75	67.50	59.85

STMicroelectronics Digi-Reel® NVRAM

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
M40SZ100WMQ6F	497-4688-1-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	6.21	5.41	4.03
M40SZ100WMQ6F	497-4688-2-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	7360.00/2,500		
M40Z111MH6	497-2799-5-ND	5V, NVRAM Supervisor for LPSRAM	28-SOIC	8.93	8.16	6.45
M40Z111MH6F	497-4689-1-ND	5V, NVRAM Supervisor for LPSRAM	28-SOIC	8.93	8.16	6.45
M40Z111MH6F	497-4689-2-ND	5V, NVRAM Supervisor for LPSRAM	28-SOIC	4724.93/936		
M40Z300WMH6	497-2800-5-ND	3V, NVRAM Supervisor for LPSRAM	28-SOIC	9.71	8.98	6.80
M40Z300WMH6F	497-4691-1-ND	3V, NVRAM Supervisor for LPSRAM	28-SOIC	11.16	10.20	8.06
M40Z300WMH6F	497-4691-2-ND	3V, NVRAM Supervisor for LPSRAM	28-SOIC	5905.22/936		
M40Z300WMQ6F	497-4692-1-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	7.73	7.06	5.58
M40Z300WMQ6F	497-4692-2-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	10584.00/2,500		
M48T02-70PC1	497-2827-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	15.86	14.67	11.11
M48T02-150PC1	497-2825-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	16.00	14.80	11.20
M48T02-200PC1	497-2826-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	16.00	14.80	11.20
M48T08-100PC1	497-2828-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T08-150PC1	497-2829-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T08Y-10MH1	497-2830-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	13.86	12.83	9.71
M48T08Y-10MH1F	497-4710-1-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	13.86	12.83	9.71
M48T08Y-10MH1F	497-4710-2-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	8237.74/936		
M48T12-70PC1	497-2833-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	16.00	14.80	11.20
M48T12-150PC1	497-2831-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	16.00	14.80	11.20
M48T18-100PC1	497-2837-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T18-150PC1	497-2838-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T35-70PC1	497-2845-5-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T35AV-10MH1F	497-4714-1-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	14.46	13.38	10.13
M48T35AV-10MH1F	497-4714-2-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	8595.29/936		
M48T35AV-10MH6F	497-4715-1-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	17.36	16.06	12.15
M48T35AV-10MH6F	497-4715-2-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	10315.66/936		
M48T35AV-10PC1	497-2848-5-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-Dip	17.30	16.01	12.11
M48T35Y-70MH1F	497-4716-1-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	14.46	13.38	10.13
M48T35Y-70MH1F	497-4716-2-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	8595.29/936		
M48T35Y-70MH6F	497-4717-1-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	17.36	16.06	12.15
M48T35Y-70MH6F	497-4717-2-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	10315.66/936		
M48T35Y-70PC1	497-2851-5-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T37V-10MH1	497-2852-5-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	16.10	14.90	11.27
M48T37V-10MH1F	497-4718-1-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	16.10	14.90	11.27
M48T37V-10MH1F	497-4718-2-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	9569.66/936		
M48T37V-10MH6	497-2853-5-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	18.35	16.98	12.85
M48T37V-10MH6F	497-4719-1-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	18.35	16.98	12.85
M48T37V-10MH6F	497-4719-2-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	10905.34/936		
M48T37Y-70MH1	497-2854-5-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	15.44	14.28	10.81
M48T37Y-70MH1F	497-4720-1-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	15.44	14.28	10.81
M48T37Y-70MH1F	497-4720-2-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	9174.67/936		
M48T37Y-70MH6F	497-4721-1-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	18.35	16.98	12.85
M48T37Y-70MH6F	497-4721-2-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	10905.34/936		
M48T58-70PC1	497-2857-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	18.00	16.65	12.60
M48T58Y-70MH1E	497-2858-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	9.90	9.16	6.93
M48T58Y-70MH1F	497-4722-1-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	11.39	10.40	8.22
M48T58Y-70MH1F	497-4722-2-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	6024.10/936		
M48T58Y-70PC1	497-2859-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	18.00	16.65	12.60
M48T59Y-70MH1	497-2860-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	11.55	10.69	8.09
M48T59Y-70MH1F	497-4723-1-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	11.55	10.69	8.09
M48T86MH1F	497-4725-1-ND	5V PC Real-Time Clock	28-SOIC	5.40	4.70	3.50
M48T86MH1F	497-4725-2-ND	5V PC Real-Time Clock	28-SOIC	2620.80/936		
M48T86PC1	497-2864-5-ND	5V PC Real-Time Clock	24-Dip	7.57	6.91	5.47
M48T128Y-70PM1	497-2834-5-ND	5V, 1M-Bit TIMEKEEPER® NVRAM	32-Dip	31.50	27.00	23.94
M48T129V-85PM1	497-2835-5-ND	3.3V, 1M-Bit TIMEKEEPER® NVRAM	32-Dip	35.00	30.00	26.60
M48T129Y-70PM1	497-2836-5-ND	5V, 1M-Bit TIMEKEEPER® NVRAM	32-Dip	31.50	27.00	23.94
M48T201V-85MH1	497-2839-5-ND	3.3V, NVRAM Supervisor	44-SOIC	11.65	10.78	8.16
M48T201V-85MH1F	497-4711-1-ND	3.3V, NVRAM Supervisor	44-SOIC	11.65	10.78	8.16
M48T201V-85MH1F	497-4711-2-ND	3.3V, NVRAM Supervisor	44-SOIC	6924.53/936		
M48T201Y-70MH1	497-2840-5-ND	5V, NVRAM Supervisor	44-SOIC	11.65	10.78	8.16
M48T201Y-70MH1F	497-4712-1-ND	5V, NVRAM Supervisor	44-SOIC	11.65	10.78	8.16
M48T201Y-70MH1F	497-4712-2-ND	5V, NVRAM Supervisor	44-SOIC	6924.53/936		
M48T212V-85MH1	497-2841-5-ND	3.3V, NVRAM Supervisor	44-SOIC	9.94	9.08	7.18
M48T512Y-70PM1	497-2856-5-ND	5V, 4M-Bit TIMEKEEPER® NVRAM	32-Dip	70.00	60.00	53.20
M48Z02-70PC1	497-2868-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	10.35	9.45	7.47
M48Z02-150PC1	497-2865-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	10.35	9.45	7.47
M48Z02-200PC1	497-2867-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	10.35	9.45	7.47
M48Z08-100PC1	497-2869-5-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-Dip	14.08	13.03	9.86
M48Z12-70PC1	497-2872-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	10.00	9.25	7.00
M48Z12-150PC1	497-2870-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	11.06	10.11	7.99
M48Z12-200PC1	497-2871-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	10.49	9.58	7.57
M48Z18-100PC1	497-2877-5-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-Dip	14.08	13.03	9.86
M48Z32V-35MT1	497-2878-5-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	44-SOIC	10.05	9.18	7.26
M48Z32V-35MT1F	497-4726-1-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	44-SOIC	10.05	9.18	7.26
M48Z32V-35MT1F	497-4726-2-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	44-SOIC	5314.61/936		
M48Z35-70PC1	497-2879-5-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-Dip	17.38	16.08	12.17
M48Z35AV-10MH1	497-2880-5-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	11.55	10.69	8.09
M48Z35AV-10MH6F	497-4727-1-ND	3V-3.6V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	14.28	13.21	10.00
M48Z35AV-10MH6F	497-4727-2-ND	3V-3.6V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	8487.65/936		
M48Z35AV-10PC1	497-2882-5-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	28-Dip	12.80	11.84	8.96
M48Z35Y-70MH1F	497-4728-1-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	11.75	10.87	8.23
M48Z35Y-70MH1F	497-4728-2-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	6981.62/936		
M48Z35Y-70PC1	497-2885-5-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-Dip	17.38	16.08	12.17
M48Z58-70PC1	497-2888-5-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-Dip	11.56	10.70	8.10
M48Z58Y-70MH1E	497-5374-5-ND	5V, 64K-Bit ZEROPOWER® NVRAM*	28-SOIC	9.09	8.30	6.56
M48Z58Y-70MH1F	497-4730-1-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-SOIC	9.09	8.30	6.56
M48Z58Y-70MH1F	497-4730-2-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-SOIC	4806.36/936		
M48Z58Y-70PC1	497-3685-5-ND	5.5V, 64K-Bit ZEROPOWER® NVRAM	28-Dip	11.56	10.70	8.10
M48Z128-70PM1	497-2873-5-ND	5V, 1M-Bit ZEROPOWER® NVRAM	32-Dip	22.75	19.50	17.29
M48Z128Y-85PM1	497-2875-5-ND	5V, 1M-Bit ZEROPOWER® NVRAM	32-Dip	26.25	22.50	19.95
M48Z129V-85PM1	497-2876-5-ND	3.3V, 1M-Bit ZEROPOWER® NVRAM	32-Dip	25.03	21.45	19.02
M48Z512A-70PM1	497-2886-5-ND	5V, 4M-Bit ZEROPOWER® NVRAM	32-Dip	61.25	52.50	46.55
M48Z512AY-70PM1	497-2887-5-ND	5V, 4M-Bit ZEROPOWER® NVRAM	32-Dip	61.25	52.50	46.55

STMicroelectronics Digi-Reel® POWER

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TDA2003H	497-2161-5-ND	10W, Car Radio Audio Amp	Pentawatt	2.10	1.75	1.47
TDA2003V	497-2162-5-ND	10W, Car Radio Audio Amp	Pentawatt	2.10	1.75	1.47
TDA7240AH	497-2167-5-ND	20W, Bridge Amp	H-Heptawatt	3.11	2.71	2.02
TDA7240AV	497-2168-5-ND	20W, Bridge Amp	V-Heptawatt	2.84	2.47	1.84
TDA7256	497-2169-5-ND	30W, Bridge Car Radio Amp	11-Multiwatt	5.67	4.94	3.68
TDA7350A	497-3972-5-ND	22W Bridge Stereo Amp	11-Multiwatt	5.40	4.70	3.50
TDA7360	497-3973-5-ND	22W Bridge/Stereo Audio Amp	11V-Multiwatt	5.87	5.36	4.24
TDA7375AV	497-3974-5-ND	Dual/Quad Power Amp	15V-Multiwatt	7.13	6.51	5.15
TDA7375V	497-2172-5-ND	2x35W Dual/Quad Power Amp	15V-Multiwatt	7.13	6.51	5.15
TDA7384A	497-2173-5-ND	4x35W Quad Bridge Car Radio Amp	25-Flexiwatt	12.30	11.38	8.61
TDA7385	497-2174-5-ND	4x30W Quad Bridge Car Radio Amp	25-Flexiwatt	11.00	10.18	7.70
TDA7386	497-2175-5-ND	4x40W Quad Bridge Car Radio Amp	25-Flexiwatt	15.40	14.25	10.78
TDA7391	497-2176-5-ND	35W, Bridge Car Radio Amp	11-Multiwatt	6.21	5.67	4.49
TDA7391PD	497-3975-5-ND	35W, Bridge Car Radio Amp	20-Power SOIC	9.66	8.82	6.98
TDA7393	497-3976-5-ND	Dual Bridge Car Radio Amp	15-Multiwatt	6.33	5.78	4.57
TDA7396	497-2177-5-ND	45W, Bridge Car Radio Amp	11-Multiwatt	6.62	5.76	4.29
TDA7454	497-2179-5-ND	4x35W High Eff. Quad Bridge Car Radio Amp	25-Flexiwatt	15.50	14.34	10.85
TDA7462D013TR	497-3673-1-ND	Dual Audio Processor with Compander	28-SOIC	7.48	6.83	5.40
TDA7560	497-2181-5-ND	4x45W Quad Bridge Car Radio Amp	25-Flexiwatt	21.44	18.38	16.30
TDA7561	497-2182-5-ND	Multifunction Quad Power Amp	25-Flexiwatt	10.80	9.99	7.56
TDA7563	497-2183-5-ND	Multifunction Quad Power Amp	27-Flexiwatt	13.30	12.31	9.31
TDA7401013TR	497-3978-1-ND	Digitally Controlled Audio Processor	28-SOIC	5.40	4.70	3.50
TDA7401013TR	497-3978-2-ND	Digitally Controlled Audio Processor	28-SOIC	2660.00/1,000		
E-TDA7401013TR	497-5051-1-ND	Digitally Controlled Audio Processor*	28-SOIC	5.40	4.70	3.50
E-TDA7401013TR	497-5051-2-ND	Digitally Controlled Audio Processor*	28-SOIC	2660.00/1,000		
TDA7535013TR	497-3989-1-ND	Delta/Sigma Cascade 20-Bit Stereo DAC	14-SOIC	5.40	4.70	3.50
TDA7535013TR	497-3989-2-ND	Delta/Sigma Cascade 20-Bit Stereo DAC	14-SOIC	6400.00/2,500		

STMicroelectronics Digi-Reel® POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
CLT3-4BT6-TR	497-2455-1-ND	Quad Digital Termination	20-TSSOP	3.21	2.80	2.09
CLT3-4BT6-TR	497-2455-2-ND	Quad Digital Termination	20-TSSOP	3808.00/2,500		
SMLVT3V3	497-2496-1-ND	Low Voltage TRANSIL™	SMB	.72	.58	.44
SMLVT3V3	497-2496-2-ND	Low Voltage TRANSIL™	SMB	570.00/2,500		
STBC08PMR	497-5808-1-ND	800mA Standalone Li-Ion Battery Charger with Thermal Regulation*	DFN6	1.69	1.47	1.13
STBC08PMR	497-5808-2-ND	800mA Standalone Li-Ion Battery Charger with Thermal Regulation*	DFN6	1797.00/3,000		
STC4054GR	497-5809-1-ND	800mA Standalone Li-Ion Battery Charger with Thermal Regulation*	TSOT-23-5	1.71	1.43	1.20
STC4054GR	497-5809-2-ND	800mA Standalone Li-Ion Battery Charger with Thermal Regulation*	TSOT-23-5	2223.00/3,000		
STM7E1AR	497-5971-1-ND	7 E 1 Channels Switch Array*	64-TQFP	9.20	8.40	6.64
STM7E1AR	497-5971-2-ND	7 E 1 Channels Switch Array*	64-TQFP	5100.00/1,000		
VB025MSP13TR	497-3563-1-ND	High Voltage Ignition Coil Driver	10-SOIC	5.94	5.17	3.85
VB025MSP13TR	497-3563-2-ND	High Voltage Ignition Coil Driver	10-SOIC	1848.00/600		
VIPER12ADIP	497-3377-5-ND	LP Off Line SMPS Primary Switcher	8-Dip	2.22	1.85	1.56
VIPER12ADIP-E	497-5575-5-ND	LP Off Line SMPS Primary Switcher*	8-Dip	2.22	1.85	1.56
VIPER12-LED-EV	VIPER12-LED-EV-ND	VIPER 12 Evaluation Board	—	39.19	—	—
VIPER20ASPTR-E	497-6164-1-ND	SMPS Primary IC*	PowerSO-10	2.82	2.35	1.98
VIPER50A-E	497-6162-5-ND	SMPS Primary IC*	Pentawatt	3.51	3.06	2.28
VIPER50ASPTR-E	497-6165-1-ND	SMPS Primary IC*	PowerSO-10	3.78	3.29	2.45
VIPER50ASPTR-E	497-6165-2-ND	SMPS Primary IC*	PowerSO-10	1176.00/600		
VIPER53DIP-E	497-6171-5-ND	Off Line Primary Switch*	8-Dip	2.97	2.59	1.93
VIPER53EDIP-E	497-6172-5-ND	Off Line Primary Switch*	8-Dip	2.97	2.59	1.93
VIPER53SPTR-E	497-6173-1-ND	Off Line Primary Switch*	PowerSO-10	3.43	2.99	2.23
VIPER53SPTR-E	497-6173-2-ND	Off Line Primary Switch*	PowerSO-10	1066.80/600		

* ***RoHS Compliant***

(Continued)

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
VIPER22-LED-EV	VIPER22-LED-EV-ND	VIPER 22 Evaluation Board	—	41.22	—	—
VIPER50A(022Y)	497-2677-5-ND	700V, 1.5A, Driver	Pentawatt HV	3.65	3.18	2.37
VIPER53ESPTR-E	497-5772-1-ND	Off Line Primary Switch*	PowerSO-10	3.43	2.99	2.23
VIPER53ESPTR-E	497-5772-2-ND	Off Line Primary Switch*	PowerSO-10	1066.80/600		
VIPER100	497-2714-5-ND	620V, 3A, Driver	Pentawatt HV	4.32	3.76	2.80
VIPER100-E	497-6161-5-ND	SMPS Primary IC*	Pentawatt	4.32	3.76	2.80
VIPER100(022Y)	497-3285-5-ND	620V, 3A, Driver	Pentawatt HV	4.46	3.88	2.89
VIPER100A-E	497-4687-5-ND	700V, 3A, Driver	Pentawatt HV	4.46	3.88	2.89
VIPER100A-22-E	497-4686-5-ND	700V, 3A, Driver	Pentawatt HV	4.46	3.88	2.89
VIPER100ASPTR-E	497-6163-1-ND	SMPS Primary IC*	PowerSO-10	4.59	4.00	2.98
VIPER100ASPTR-E	497-6163-2-ND	SMPS Primary IC*	PowerSO-10	1428.00/600		
VN05N	497-3088-5-ND	High Side, Smart Power SSR	5-Pentawatt	2.82	2.46	1.83
VN21(012Y)	497-3290-5-ND	7A, ISO High Side Smart Power SSR	Pentawatt	4.86	4.23	3.15
VN330SP	497-2705-5-ND	0.7A, Quad High Side Smart Power SSR	PowerSO-10	6.62	6.05	4.79
VN330SP-E	497-5052-5-ND	0.7A, Quad High Side Smart Power SSR	PowerSO-10	7.48	6.83	5.40
VN340SP-E	497-5053-5-ND	0.7A, Quad High Side Smart Power SSR	PowerSO-10	7.48	6.83	5.40
VN340SPTR-33-E	497-6166-1-ND	Quad High Side SSR*	PowerSO-10	6.90	6.30	4.98
VN340SPTR-33-E	497-6166-2-ND	Quad High Side SSR*	PowerSO-10	2340.00/600		
VN450P13TR	497-4493-1-ND	3-Channel High Side SSR	20-Power SOIC	6.44	5.88	4.65
VN450P13TR	497-4493-2-ND	3-Channel High Side SSR	20-Power SOIC	2184.00/600		
VN540-E	497-6168-5-ND	Single High Side SSR Vertical Lead*	Pentawatt	6.90	6.30	4.98
VN540-12-E	497-6167-5-ND	Single High Side SSR Straight Lead*	Pentawatt	4.46	3.88	2.89
VN540SPTR-E	497-5773-1-ND	Single High Side SSR*	PowerSO-10	4.51	3.93	2.93
VN540SPTR-E	497-5773-2-ND	Single High Side SSR*	PowerSO-10	1402.80/600		
VN610SP	497-2660-5-ND	45A, Single Ch. High Side SSR	PowerSO-10	5.47	4.77	3.55
VN610SP13TR	497-3291-1-ND	45A, Single Ch. High Side SSR	PowerSO-10	5.47	4.77	3.55
VN610SP13TR	497-3291-2-ND	45A, Single Ch. High Side SSR	PowerSO-10	1702.80/600		
VN750	497-2707-5-ND	6A, High Side Driver	Pentawatt	2.56	2.13	1.79
VN750-B5	497-2701-5-ND	6A, High Side Driver	P2-PAK	2.50	2.09	1.76
VN750PT	497-3292-5-ND	6A, High Side Driver	P-PAK	2.18	1.82	1.53
VN750S	497-3293-5-ND	6A, High Side Driver	8-SOIC	1.74	1.45	1.22
VN751PT13TR	497-6114-1-ND	2.5A, High Side Driver*	PPAK-5	2.97	2.59	1.93
VN751PT13TR	497-6114-2-ND	2.5A, High Side Driver*	PPAK-5	3520.00/2,500		
VN800PT	497-3294-5-ND	0.7A, High Side Driver	P-PAK	1.79	1.49	1.26
VN800S13TR	497-3295-1-ND	0.7A, High Side Driver	8-SOIC	1.86	1.62	1.25
VN800S13TR	497-3295-2-ND	0.7A, High Side Driver	8-SOIC	1652.50/2,500		
VN808CM-E	497-4925-5-ND	Octal Ch. High Side Driver	36-Power SOIC	9.09	8.30	6.56
VN808SR13TR	497-4747-1-ND	Octal Ch. High Side Driver	36-Power SOIC	8.74	7.98	6.31
VN808SR13TR	497-4747-2-ND	Octal Ch. High Side Driver	36-Power SOIC	2964.00/600		
VN820	497-3296-5-ND	9A, High Side Driver	Pentawatt	2.97	2.48	2.09
VN820-B513TR	497-3297-1-ND	9A, High Side Driver	P2-PAK	2.87	2.39	2.01
VN820-B513TR	497-3297-2-ND	9A, High Side Driver	P2-PAK	1291.00/1,000		
VN820SP13TR	497-3298-1-ND	9A, High Side Driver	PowerSO-10	2.96	2.58	1.92
VN820SP13TR	497-3298-2-ND	9A, High Side Driver	PowerSO-10	919.80/600		
VN920	497-2679-5-ND	30A, Single Channel High Side SSR	Pentawatt	3.38	2.94	2.19
VN920-B5	497-2678-5-ND	30A, Single Channel High Side SSR	P2-PAK	3.38	2.94	2.19
VN920SP13TR	497-2506-1-ND	30A, Single Channel High Side SSR	PowerSO-10	3.76	3.27	2.44
VN920SP13TR	497-2506-2-ND	30A, Single Channel High Side SSR	PowerSO-10	1168.20/600		
VNB20N07	497-2794-5-ND	70V, 20A, Fully Auto Protected Power Mosfet	D2-PAK	2.91	2.54	1.89
VNB20N0713TR	497-2794-1-ND	70V, 20A, Fully Auto Protected Power Mosfet	D2-PAK	2.91	2.54	1.89
VNB20N0713TR	497-2794-2-ND	70V, 20A, Fully Auto Protected Power Mosfet	D2-PAK	1433.74/1,000		
VNB35NV04	497-2671-5-ND	40V, 30A, Fully Protected Pwr Mosfet	D2-PAK	6.37	5.55	4.13
VND05B(012Y)	497-3300-5-ND	2-Ch., High Side Smart Power SSR	Heptawatt	2.96	2.58	1.92
VND05BSP	497-3089-5-ND	ISO High Side Smart Power SSR	PowerSO-10	3.19	2.78	2.07
VND05BSP13TR	497-3299-1-ND	ISO High Side Smart Power SSR	PowerSO-10	3.19	2.78	2.07
VND05BSP13TR	497-3299-2-ND	ISO High Side Smart Power SSR	PowerSO-10	993.00/600		
VND3NV0413TR	497-3301-1-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	D-PAK	1.74	1.51	1.16
VND3NV0413TR	497-3301-2-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	D-PAK	1542.50/2,500		
VND5N07	497-2481-5-ND	70V, 5A, Fully Auto Protected Power Mosfet	D-PAK	1.59	1.33	1.12
VND7N0413TR	497-3304-1-ND	42V, 7A, Fully Auto Protected Power Mosfet	D-PAK	1.59	1.33	1.12
VND7N0413TR	497-3304-2-ND	42V, 7A, Fully Auto Protected Power Mosfet	D-PAK	1722.50/2,500		
VND7NV04	497-2669-5-ND	40V, 6A, Fully Auto Protected Power Mosfet	D-PAK	1.59	1.33	1.12
VND10N06	497-2767-5-ND	60V, 10A, Fully Auto Protected Power Mosfet	D-PAK	1.86	1.62	1.25
VND14NV04	497-2674-5-ND	40V, 12A, Fully Auto Protected Power Mosfet	D-PAK	2.24	1.87	1.57
VND600	497-4497-5-ND	2-Channel High Side SSR	16-SOIC	4.22	3.68	2.74
VND60013TR	497-4498-1-ND	2-Channel High Side SSR	16-SOIC	5.94	5.17	3.85
VND60013TR	497-4498-2-ND	2-Channel High Side SSR	16-SOIC	2926.00/1,000		
VND600SP	497-2711-5-ND	36V, 25A, Double Channel High Side SSR	PowerSO-10	4.69	4.09	3.05
VND600SP13TR	497-3303-1-ND	36V, 25A, Double Channel High Side SSR	PowerSO-10	4.69	4.09	3.05
VND600SP13TR	497-3303-2-ND	36V, 25A, Double Channel High Side SSR	PowerSO-10	1459.80/600		
VND810SP	497-3305-5-ND	36V, 3.5A, Double Channel High Side Driver	PowerSO-10	3.19	2.78	2.07
VND830ASP13TR	497-4499-1-ND	2-Channel High Side SSR	PowerSO-10	4.46	3.88	2.89
VND830ASP13TR	497-4499-2-ND	2-Channel High Side SSR	PowerSO-10	1386.60/600		
VND830SP	497-2709-5-ND	36V, 6A, Double Channel High Side Driver	PowerSO-10	4.51	3.93	2.93
VND830SP13TR	497-3306-1-ND	36V, 6A, Double Channel High Side Driver	PowerSO-10	4.51	3.93	2.93
VND830SP13TR	497-3306-2-ND	36V, 6A, Double Channel High Side Driver	PowerSO-10	1402.20/600		
VND920	497-2708-5-ND	36V, 35A, Double Channel, High Side SSR	28-SOIC	6.71	5.85	4.36
VND92013TR	497-3307-1-ND	36V, 35A, Double Channel, High Side SSR	28-SOIC	6.71	5.85	4.36
VND92013TR	497-3307-2-ND	36V, 35A, Double Ch. High Side SSR	28-SOIC	3308.00/1,000		
VND5N0713TR	497-2481-1-ND	70V, 5A, Fully Auto Protected Power Mosfet	D-PAK	1.59	1.33	1.12
VND5N0713TR	497-2481-2-ND	70V, 5A, Fully Auto Protected Power Mosfet	D-PAK	1722.50/2,500		
VNH2SP30	497-4500-5-ND	H-Bridge Motor Driver	—	10.51	9.60	7.59
VNH2SP30TR-E	497-4501-1-ND	H-Bridge Motor Driver	—	10.51	9.60	7.59
VNH2SP30TR-E	497-4501-2-ND	H-Bridge Motor Driver	—	5825.00/1,000		
VNN1NV0413TR	497-2517-1-ND	40V, 1.7A, Fully Auto Protected Power Mosfet	SOT-223	1.18	1.03	.79
VNN1NV0413TR	497-2517-2-ND	40V, 1.7A, Fully Auto Protected Power Mosfet	SOT-223	457.00/1,000		
VNN3NV0413TR	497-3309-1-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	SOT-223	1.43	1.24	.96
VNN3NV0413TR	497-3309-2-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	SOT-223	552.00/1,000		
VNN7NV0413TR	497-2519-1-ND	40V, 6A, Fully Auto Protected Power Mosfet	SOT-223	1.74	1.51	1.16
VNN7NV0413TR	497-2519-2-ND	40V, 6A, Fully Auto Protected Power Mosfet	SOT-223	673.00/1,000		
VNP5N07	497-2791-5-ND	70V, 5A, Fully Auto Protected Power Mosfet	TO-220	1.59	1.33	1.12
VNP10N06	497-3310-5-ND	60V, 10A, Fully Auto Protected Power Mosfet	TO-220	1.86	1.62	1.25
VNP10N07	497-2795-5-ND	70V, 10A, Fully Auto Protected Power Mosfet	TO-220	2.09	1.74	1.46
VNP35N07	497-2792-5-ND	70V, 35A, Fully Auto Protected Power Mosfet	TO-220	4.51	3.93	2.93
VNP35NV04	497-3311-5-ND	40V, 30A, Fully Auto Protected Power Mosfet	TO-220	6.47	5.63	4.20
VNQ600	497-3314-5-ND	36V, 25A, Quad Ch. High Side SSR	28-SOIC	7.20	6.58	5.20
VNQ660SP	497-2700-5-ND	36V, 6A, Quad Ch. High Side SSR	PowerSO-10	6.36	5.81	4.59
VNQ660SP13TR	497-3315-1-ND	36V, 6A, Quad Ch. High Side SSR	PowerSO-10	6.36	5.81	4.59
VNQ660SP13TR	497-3315-2-ND	36V, 6A, Quad Ch. High Side SSR	PowerSO-10	2155.80/600		
VNQ810	497-2703-5-ND	36V, 3.5A, Quad Ch. High Side Driver	28-SOIC	4.46	3.88	2.89
VNQ81013TR	497-3316-1-ND	36V, 3.5A, Quad Ch. High Side Driver	28-SOIC	4.46	3.88	2.89
VNQ81013TR	497-3316-2-ND	36V, 3.5A, Quad Ch. High Side Driver	28-SOIC	2196.00/1,000		
VNQ830	497-2702-5-ND	36V, 6A, Quad Ch. High Side Driver	28-SOIC	6.22	5.42	4.04
VNQ860	497-2704-5-ND	36V, .25A, Quad Ch. High Side Driver	20-SOIC	5.56	4.85	3.61
VNQ860SP	497-4502-5-ND	36V, .25A, Quad Ch. High Side Driver	PowerSO-10	6.10	5.32	3.96
VNQ860SPTR-E	497-5774-1-ND	Quad Ch. High Side Driver*	PowerSO-10	6.10	5.32	3.96
VNQ860SPTR-E	497-5774-2-ND	Quad Ch. High Side Driver*	PowerSO-10	1898.40/600		
VNQ860TR-E	497-6113-1-ND	Quad Ch. High Side Driver*	20-SOIC	5.56	4.85	3.61
VNQ860TR-E	497-6113-2-ND	Quad Ch. High Side Driver*	20-SOIC	2740.00/1,000		
VNS1NV04	497-2672-5-ND	40V, 1.7A, Fully Auto Protected Power Mosfet, Dual N-Channel	8-SOIC	1.18	1.03	.79
VNS1NV04D-E	497-5787-5-ND	40V, 1.7A, Fully Auto Protected Power Mosfet, Dual N-Channel*	8-SOIC	1.86	1.62	1.25
VNS3NV04D	497-3318-5-ND	40V, 3.5A, Fully Auto Protected Power Mosfet, Dual N-Channel	8-SOIC	1.79	1.49	1.26
VNS3NV04D13TR	497-3318-1-ND	40V, 3.5A, Fully Auto Protected Power Mosfet, Dual N-Channel	8-SOIC	1.79	1.49	1.26
VNS3NV04D13TR	497-3318-2-ND	40V, 3.5A, Fully Auto Protected Power Mosfet, Dual N-Channel	8-SOIC	1937.50/2,500		
VNS14NV04	497-3317-5-ND	40V, 12A, Fully Auto Protected Power Mosfet	8-SOIC	1.89	1.58	1.33
VNS14NV0413TR	497-3317-1-ND	40V, 12A, Fully Auto Protected Power Mosfet	8-SOIC	1.89	1.58	1.33
VNS14NV0413TR	497-3317-2-ND	40V, 12A, Fully Auto Protected Power Mosfet	8-SOIC	2044.25/2,500		
VNV35N07	497-3319-5-ND	70V, 35A, Fully Auto Protected Power Mosfet	PowerSO-10	4.74	4.13	3.08
VNW50N04	497-3320-5-ND	42V, 50A, Fully Auto Protected Power Mosfet	TO-247	8.18	7.47	5.91

Microprocessor Supervisors

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STM690AM6F	497-3824-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM690AM6F	497-3824-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2275.00/2,500		
STM690RM6F	497-3825-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM690RM6F	497-3825-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2275.00/2,500		
STM690SDS6F	497-4980-1-ND	3V Supervisor w/Battery Switchover	8-TSSOP	3.24	2.82	2.10
STM690SDS6F	497-4980-2-ND	3V Supervisor w/Battery Switchover	8-TSSOP	6144.00/4,000		
STM690SM6F	497-3826-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM690SM6F	497-3826-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2275.00/2,500		
STM690TM6F	497-3827-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM690TM6F	497-3827-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2275.00/2,500		
STM692AM6F	497-3828-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.07	1.73	1.45
STM692AM6F	497-3828-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2242.50/2,500		
STM703M6F	497-3829-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
STM703M6F	497-3829-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2210.00/2,500		
STM704M6F	497-3830-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
STM704M6F	497-3830-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2210.00/2,500		
STM704RDS6E	497-5390-5-ND	3V Supervisor with Battery Switchover*	8-TSSOP	2.97	2.59	1.93
STM704RM6F	497-3831-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
STM704RM6F	497-3831-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2210.00/2,500		
STM704SD6F	497-5317-1-ND	3V Supervisor with Battery Switchover*	8-TSSOP	2.97	2.59	1.93
STM704SD6F	497-5317-2-ND	3V Supervisor with Battery Switchover*	8-TSSOP	5632.00/4,000		
STM704SM6F	497-3832-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
STM704SM6F	497-3832-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2210.00/2,500		
STM704TDS6F	497-5318-1-ND	3V Supervisor with Battery Switchover*	8-TSSOP	2.97	2.59	1.93
STM704TDS6F	497-5318-2-ND	3V Supervisor with Battery Switchover*	8-TSSOP	5632.00/4,000		
STM704TM6F	497-3833-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
STM704TM6F	497-3833-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2210.00/2,500		
STM705M6F	497-3834-1-ND	5V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM705M6F	497-3834-2-ND	5V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM706M6F	497-3835-1-ND	5V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17

*** RoHS Compliant**

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STM706M6F	497-3835-2-ND	5V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM706PM6F	497-3836-1-ND	3V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM706PM6F	497-3836-2-ND	3V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM706RM6F	497-3837-1-ND	3V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM706RM6F	497-3837-2-ND	3V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM706SDS6F	497-4981-1-ND	3V Supervisor with Watchdog	8-TSSOP	2.25	1.88	1.58
STM706SDS6F	497-4981-2-ND	3V Supervisor with Watchdog	8-TSSOP	3900.00/4,000		
STM706SM6F	497-3838-1-ND	3V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM706SM6F	497-3838-2-ND	3V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM706TM6F	497-3839-1-ND	3V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM706TM6F	497-3839-2-ND	3V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM707M6F	497-3840-1-ND	5V Supervisor	8-SOIC	1.74	1.52	1.17
STM707M6F	497-3840-2-ND	5V Supervisor	8-SOIC	1545.00/2,500		
STM708M6F	497-3841-1-ND	5V Supervisor	8-SOIC	1.74	1.52	1.17
STM708M6F	497-3841-2-ND	5V Supervisor	8-SOIC	1545.00/2,500		
STM708RM6F	497-3842-1-ND	3V Supervisor	8-SOIC	1.74	1.52	1.17
STM708RM6F	497-3842-2-ND	3V Supervisor	8-SOIC	1545.00/2,500		
STM708SDS6F	497-4982-1-ND	3V Supervisor	8-TSSOP	2.25	1.88	1.58
STM708SDS6F	497-4982-2-ND	3V Supervisor	8-TSSOP	3900.00/4,000		
STM708SM6F	497-3843-1-ND	3V Supervisor	8-SOIC	1.74	1.52	1.17
STM708SM6F	497-3843-2-ND	3V Supervisor	8-SOIC	1545.00/2,500		
STM708TM6F	497-3844-1-ND	3V Supervisor	8-SOIC	1.74	1.52	1.17
STM708TM6F	497-3844-2-ND	3V Supervisor	8-SOIC	1545.00/2,500		
STM795RM6F	497-3845-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.67	2.23	1.87
STM795RM6F	497-3845-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2892.50/2,500		
STM795SM6F	497-3846-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.67	2.23	1.87
STM795SM6F	497-3846-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2892.50/2,500		
STM795TM6F	497-3847-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.67	2.23	1.87
STM795TM6F	497-3847-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2892.50/2,500		
STM802LM6F	497-3848-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM802LM6F	497-3848-2-ND	5V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM802MM6F	497-3849-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM802MM6F	497-3849-2-ND	5V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM802RM6F	497-3850-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM802RM6F	497-3850-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM802SM6F	497-3851-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM802SM6F	497-3851-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM802TM6F	497-3852-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM802TM6F	497-3852-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM804RM6F	497-3853-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM804RM6F	497-3853-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3412.50/2,500		
STM804SM6F	497-3854-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM804SM6F	497-3854-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM804TM6F	497-3855-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM804TM6F	497-3855-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM805LM6F	497-3856-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
STM805LM6F	497-3856-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2632.50/2,500		
STM805RM6F	497-3857-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
STM805RM6F	497-3857-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2632.50/2,500		
STM805SM6F	497-3858-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.19	1.83	1.54
STM805SM6F	497-3858-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2372.50/2,500		
STM805TM6F	497-3859-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
STM805TM6F	497-3859-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2632.50/2,500		
STM806RM6F	497-3860-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.54	2.21	1.65
STM806RM6F	497-3860-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3055.00/2,500		
STM806SM6F	497-3861-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.54	2.21	1.65
STM806SM6F	497-3861-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3055.00/2,500		
STM806TM6F	497-3862-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.82	2.35	1.98
STM806TM6F	497-3862-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3007.50/2,500		
STM813LM6F	497-3863-1-ND	5V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM813LM6F	497-3863-2-ND	5V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM817LM6F	497-3864-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
STM817LM6F	497-3864-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2632.50/2,500		
STM817MM6F	497-3865-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
STM817MM6F	497-3865-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2632.50/2,500		
STM818LM6F	497-3866-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.52	2.10	1.77
STM818LM6F	497-3866-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2730.00/2,500		
STM818MM6F	497-3867-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.52	2.10	1.77
STM818MM6F	497-3867-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2730.00/2,500		
STM819LM6F	497-3868-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM819LM6F	497-3868-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2275.00/2,500		
STM819MM6F	497-3869-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM819MM6F	497-3869-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2275.00/2,500		
STM6321LWY6F	497-4659-1-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.77	1.48	1.24
STM6321LWY6F	497-4659-2-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2301.00/3,000		
STM6321MAWY6F	497-6170-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	1.77	1.48	1.24
STM6321MAWY6F	497-6170-2-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset*	SOT-23-5	2301.00/3,000		
STM6321MWY6F	497-4788-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.77	1.48	1.24
STM6321MWY6F	497-4788-2-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2301.00/3,000		
STM6321RWY6F	497-4660-1-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.77	1.48	1.24
STM6321RWY6F	497-4660-2-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2301.00/3,000		
STM6321TWY6F	497-4661-1-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.77	1.48	1.24
STM6321TWY6F	497-4661-2-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2301.00/3,000		
STM6322MWY6F	497-4662-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.77	1.48	1.24
STM6322MWY6F	497-4662-2-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2301.00/3,000		
STM6322SWY6F	497-4663-1-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.77	1.48	1.24
STM6322SWY6F	497-4663-2-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2301.00/3,000		
STM6322TWY6F	497-4798-1-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.77	1.48	1.24
STM6322TWY6F	497-4798-2-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2301.00/3,000		
STM6821MWY6F	497-4801-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6821MWY6F	497-4801-2-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2340.00/3,000		
STM6821SWY6F	497-4800-1-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6821SWY6F	497-4800-2-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2340.00/3,000		
STM6822LWY6F	497-4664-1-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.77	1.48	1.24
STM6822LWY6F	497-4664-2-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2301.00/3,000		
STM6822RWY6F	497-4665-1-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.77	1.48	1.24
STM6822RWY6F	497-4665-2-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2301.00/3,000		
STM6822SWY6F	497-4799-1-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.77	1.48	1.24
STM6822SWY6F	497-4799-2-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2301.00/3,000		
STM6822TWY6F	497-4666-1-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.77	1.48	1.24
STM6823MWY6F	497-4794-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6823MWY6F	497-4794-2-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2340.00/3,000		
STM6823SWY6F	497-4790-1-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6823SWY6F	497-4790-2-ND	2.93V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2340.00/3,000		
STM6824LWY6F	497-4789-1-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6824LWY6F	497-4789-2-ND	4.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2340.00/3,000		
STM6824RWY6F	497-4784-1-ND	2.63V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6824TWY6F	497-4787-1-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6824TWY6F	497-4787-2-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2340.00/3,000		
STM6825MWY6F	497-4786-1-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6825MWY6F	497-4786-2-ND	4.39V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2340.00/3,000		
STM6825TWY6F	497-4785-1-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6825TWY6F	497-4785-2-ND	3.08V Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2340.00/3,000		
STM6821TWY6F	497-4976-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6821TWY6F	497-4976-2-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2340.00/3,000		
STM6823LWY6F	497-5192-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset*	SOT23-5	1.80	1.50	1.26
STM6823LWY6F	497-5192-2-ND	Supervisor with Watchdog Timer and Pushbutton Reset*	SOT23-5	2340.00/3,000		
STM6823TWY6F	497-4977-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6823TWY6F	497-4977-2-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2340.00/3,000		
STM6824SWY6F	497-4978-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6824SWY6F	497-4978-2-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2340.00/3,000		
STM6825LWY6F	497-5193-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset*	SOT23-5	1.80	1.50	1.26
STM6825SWY6F	497-4979-1-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	1.80	1.50	1.26
STM6825SWY6F	497-4979-2-ND	Supervisor with Watchdog Timer and Pushbutton Reset	SOT-23-5	2340.00/3,000		

Multi-Voltage Resets

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STM6717SFWY6F	497-5010-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	1.69	1.47	1.13
STM6717SFWY6F	497-5010-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	1797.00/3,000		
STM6717SVWY6F	497-5181-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-5	1.95	1.63	1.37
STM6717SVWY6F	497-5181-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-5	2535.00/3,000		
STM6717SYWY6F	497-5182-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-5	1.95	1.63	1.37
STM6717SYWY6F	497-5182-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-5	2535.00/3,000		
STM6717TGWY6F	497-5183-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-5	1.95	1.63	1.37
STM6717TGWY6F	497-5183-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-5	2535.00/3,000		
STM6717TWWY6F	497-5011-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	1.69	1.47	1.13
STM6717TWWY6F	497-5011-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	1797.00/3,000		
STM6717TZWY6F	497-5184-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-5	1.95	1.63	1.37
STM6717TZWY6F	497-5184-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-5	2535.00/3,000		
STM6718SFWY6F	497-5012-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	1.69	1.47	1.13
STM6718SFWY6F	497-5012-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	1797.00/3,000		
STM6718SVWY6F	497-5185-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-5	1.95	1.63	1.37

** RoHS Compliant*

(Continued)

STMicroelectronics Digi-Reel®

POWER MANAGEMENT *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STM6718SVWY6F	497-5185-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-5	2535.00/3,000		
STM6718TGWY6F	497-5186-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-5	1.95	1.63	1.37
STM6718TGWY6F	497-5186-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-5	2535.00/3,000		
STM6718TWWY6F	497-5013-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	1.69	1.47	1.13
STM6718TWWY6F	497-5013-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-5	1797.00/3,000		
STM6719SFWB6F	497-5014-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	1.69	1.47	1.13
STM6719SFWB6F	497-5014-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	1797.00/3,000		
STM6719SHWB6F	497-5015-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	1.69	1.47	1.13
STM6719SHWB6F	497-5015-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	1797.00/3,000		
STM6719SVWB6F	497-5187-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-6	2.10	1.75	1.47
STM6719SVWB6F	497-5187-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-6	2730.00/3,000		
STM6719TGWB6F	497-5188-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-6	2.10	1.75	1.47
STM6719TGWB6F	497-5188-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-6	2730.00/3,000		
STM6719TWWB6F	497-5016-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	1.69	1.47	1.13
STM6719TWWB6F	497-5016-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	1797.00/3,000		
STM6719TZWB6F	497-5389-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-6	1.56	1.30	1.10
STM6719TZWB6F	497-5389-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-6	2076.00/3,000		
STM6720SFWB6F	497-5017-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	1.69	1.47	1.13
STM6720SFWB6F	497-5017-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	1797.00/3,000		
STM6720SVWB6F	497-5189-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-6	2.10	1.75	1.47
STM6720SVWB6F	497-5189-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-6	2730.00/3,000		
STM6720TGWB6F	497-5190-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-6	2.10	1.75	1.47
STM6720TGWB6F	497-5190-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-6	2730.00/3,000		
STM6720TWWB6F	497-5018-1-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	1.69	1.47	1.13
STM6720TWWB6F	497-5018-2-ND	Dual/Triple Ultra Low Voltage Supervisor	SOT-23-6	1797.00/3,000		
STM6720TZWB6F	497-5191-1-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-6	2.10	1.75	1.47
STM6720TZWB6F	497-5191-2-ND	Dual/Triple Supervisor with Push-Button Reset*	SOT23-6	2730.00/3,000		
STM6777SVWB6F	497-5247-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-6	1.95	1.63	1.37
STM6777SVWB6F	497-5247-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-6	2535.00/3,000		
STM6778SYWB6F	497-5248-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-6	1.95	1.63	1.37
STM6778SYWB6F	497-5248-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-6	2535.00/3,000		
STM6779SWB6F	497-5249-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-6	1.95	1.63	1.37
STM6779SWB6F	497-5249-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-6	2535.00/3,000		
STM6780SWB6F	497-5250-1-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-6	1.95	1.63	1.37
STM6780SWB6F	497-5250-2-ND	Dual/Triple Ultra Low Voltage Supervisor*	SOT-23-6	2535.00/3,000		

Reset IC's

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STM809MWX6F	497-3326-1-ND	4.38V Reset Circuit	SOT-23	.52	.42	.31
STM809MWX6F	497-3326-2-ND	4.38V Reset Circuit	SOT-23	465.00/3,000		
STM809RWX6F	497-3327-1-ND	2.63V Reset Circuit	SOT-23	.52	.42	.31
STM809RWX6F	497-3327-2-ND	2.63V Reset Circuit	SOT-23	465.00/3,000		
STM809SWX6F	497-3338-1-ND	2.93V Reset Circuit	SOT-23	.52	.42	.31
STM809SWX6F	497-3338-2-ND	2.93V Reset Circuit	SOT-23	465.00/3,000		
STM809TWX6F	497-3339-1-ND	3.08V Reset Circuit	SOT-23	.52	.42	.31
STM809TWX6F	497-3339-2-ND	3.08V Reset Circuit	SOT-23	465.00/3,000		
STM810LWX6F	497-3340-1-ND	4.63V Reset Circuit	SOT-23	.52	.42	.31
STM810LWX6F	497-3340-2-ND	4.63V Reset Circuit	SOT-23	465.00/3,000		
STM810MWX6F	497-3341-1-ND	4.38V Reset Circuit	SOT-23	.52	.42	.31
STM810MWX6F	497-3341-2-ND	4.38V Reset Circuit	SOT-23	465.00/3,000		
STM810RWX6F	497-3342-1-ND	2.63V Reset Circuit	SOT-23	.52	.42	.31
STM810SWX6F	497-3343-1-ND	2.93V Reset Circuit	SOT-23	.52	.42	.31
STM810SWX6F	497-3343-2-ND	2.93V Reset Circuit	SOT-23	465.00/3,000		
STM810TWX6F	497-3344-1-ND	3.08V Reset Circuit	SOT-23	.52	.42	.31
STM810TWX6F	497-3344-2-ND	3.08V Reset Circuit	SOT-23	465.00/3,000		
STM811LW16F	497-3345-1-ND	4.63V Reset Circuit	SOT-143-4	.78	.63	.47
STM811LW16F	497-3345-2-ND	4.63V Reset Circuit	SOT-143-4	744.00/3,000		
STM811MW16F	497-3346-1-ND	4.38V Reset Circuit	SOT-143-4	.78	.63	.47
STM811MW16F	497-3346-2-ND	4.38V Reset Circuit	SOT-143-4	744.00/3,000		
STM811RW16F	497-3347-1-ND	2.63V Reset Circuit	SOT-143-4	.78	.63	.47
STM811RW16F	497-3347-2-ND	2.63V Reset Circuit	SOT-143-4	744.00/3,000		
STM811SW16F	497-3348-1-ND	2.93V Reset Circuit	SOT-143-4	.78	.63	.47
STM811SW16F	497-3348-2-ND	2.93V Reset Circuit	SOT-143-4	744.00/3,000		
STM811TW16F	497-3349-1-ND	3.08V Reset Circuit	SOT-143-4	.78	.63	.47
STM811TW16F	497-3349-2-ND	3.08V Reset Circuit	SOT-143-4	744.00/3,000		
STM812LW16F	497-3350-1-ND	4.63V Reset Circuit	SOT-143-4	.78	.63	.47
STM812LW16F	497-3350-2-ND	4.63V Reset Circuit	SOT-143-4	744.00/3,000		
STM812MW16F	497-3351-1-ND	4.38V Reset Circuit	SOT-143-4	.78	.63	.47
STM812MW16F	497-3351-2-ND	4.38V Reset Circuit	SOT-143-4	743.85/3,000		
STM812 RW16F	497-3352-1-ND	2.63V Reset Circuit	SOT-143-4	.78	.63	.47
STM812RW16F	497-3352-2-ND	2.63V Reset Circuit	SOT-143-4	744.00/3,000		
STM812SW16F	497-3353-1-ND	2.93V Reset Circuit	SOT-143-4	.78	.63	.47
STM812SW16F	497-3353-2-ND	2.93V Reset Circuit	SOT-143-4	743.85/3,000		
STM812TW16F	497-3354-1-ND	3.08V Reset Circuit	SOT-143-4	.78	.63	.47
STM812TW16F	497-3354-2-ND	3.08V Reset Circuit	SOT-143-4	744.00/3,000		
STM1001LWX6F	497-4797-1-ND	4.63V Reset Circuit	SOT-23	.52	.42	.31
STM1001LWX6F	497-4797-2-ND	4.63V Reset Circuit	SOT-23	465.00/3,000		
STM1001MWX6F	497-4658-1-ND	4.63V Reset Circuit	SOT-23	.77	.62	.46
STM1001MWX6F	497-4658-2-ND	4.63V Reset Circuit	SOT-23	726.00/3,000		
STM1810LWX7F	497-4959-1-ND	4.62V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1810LWX7F	497-4959-2-ND	4.62V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1810MWX7F	497-4960-1-ND	4.37V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1810MWX7F	497-4960-2-ND	4.37V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1811LWX7F	497-4961-1-ND	4.62V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1811LWX7F	497-4961-2-ND	4.62V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1811MWX7F	497-4962-1-ND	4.37V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1811MWX7F	497-4962-2-ND	4.37V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1812LWX7F	497-4963-1-ND	4.62V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1812LWX7F	497-4963-2-ND	4.62V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1812MWX7F	497-4964-1-ND	4.37V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1812MWX7F	497-4964-2-ND	4.37V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1813LWX7F	497-4965-1-ND	4.62V Low Power Reset Circuit	SOT-23	.88	.71	.53
STM1813LWX7F	497-4965-2-ND	4.62V Low Power Reset Circuit	SOT-23	834.00/3,000		
STM1813MWX7F	497-4966-1-ND	4.37V Low Power Reset Circuit	SOT-23	.88	.71	.53
STM1813MWX7F	497-4966-2-ND	4.37V Low Power Reset Circuit	SOT-23	834.00/3,000		
STM1815RWX7F	497-4967-1-ND	2.55V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1815RWX7F	497-4967-2-ND	2.55V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1815SWX7F	497-4968-1-ND	2.88V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1815SWX7F	497-4968-2-ND	2.88V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1815TWX7F	497-4969-1-ND	3.06V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1815TWX7F	497-4969-2-ND	3.06V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1816RWX7F	497-4970-1-ND	2.55V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1816RWX7F	497-4970-2-ND	2.55V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1816SWX7F	497-4791-1-ND	2.88V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1816SWX7F	497-4791-2-ND	2.88V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1816TWX7F	497-4793-1-ND	3.06V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1816TWX7F	497-4793-2-ND	3.06V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1817RWX7F	497-4971-1-ND	2.55V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1817RWX7F	497-4971-2-ND	2.55V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1817SWX7F	497-4972-1-ND	2.88V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1817SWX7F	497-4972-2-ND	2.88V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1817TWX7F	497-4973-1-ND	3.06V Low Power Reset Circuit	SOT-23	.74	.60	.45
STM1817TWX7F	497-4973-2-ND	3.06V Low Power Reset Circuit	SOT-23	705.00/3,000		
STM1818RWX7F	497-4974-1-ND	2.55V Low Power Reset Circuit	SOT-23	.88	.71	.53
STM1818RWX7F	497-4974-2-ND	2.55V Low Power Reset Circuit	SOT-23	834.00/3,000		
STM1818SWX7F	497-4795-1-ND	2.88V Low Power Reset Circuit	SOT-23	.88	.71	.53
STM1818SWX7F	497-4795-2-ND	2.88V Low Power Reset Circuit	SOT-23	834.00/3,000		
STM1818TWX7F	497-4796-1-ND	3.06V Low Power Reset Circuit	SOT-23	.88	.71	.53
STM1818TWX7F	497-4796-2-ND	3.06V Low Power Reset Circuit	SOT-23	834.00/3,000		
STM6315LBW13F	497-5316-1-ND	2.93V Open Drain MPU Reset*	SOT-143-4	1.13	.98	.75
STM6315LBW13F	497-5316-2-ND	2.93V Open Drain MPU Reset*	SOT-143-4	1197.00/3,000		
STM6315MDW13F	497-6028-1-ND	4.38V Open Drain MPU Reset*	SOT-143-4	1.13	.98	.75
STM6315MDW13F	497-6028-2-ND	4.38V Open Drain MPU Reset*	SOT-143-4	1197.00/3,000		
STM6315RAW13F	497-6122-1-ND	2.63V Open Drain MPU Reset*	SOT-143-4	.98	.85	.65
STM6315RAW13F	497-6122-2-ND	2.63V Open Drain MPU Reset*	SOT-143-4	1038.00/3,000		
STM6315RBW13F	497-5126-1-ND	2.63V Microprocessor Reset Circuit*	SOT-143	.98	.85	.65
STM6315RBW13F	497-5126-2-ND	2.63V Microprocessor Reset Circuit*	SOT-143	1038.00/3,000		
STM6315RDW13F	497-5127-1-ND	2.63V Microprocessor Reset Circuit*	SOT-143	.98	.85	.65
STM6315RDW13F	497-5127-2-ND	2.63V Microprocessor Reset Circuit*	SOT-143	1038.00/3,000		
STM6315RGW13F	497-6123-1-ND	2.63V Open Drain MPU Reset*	SOT-143-4	.98	.85	.65
STM6315RGW13F	497-6123-2-ND	2.63V Open Drain MPU Reset*	SOT-143-4	1038.00/3,000		
STM6315SDW13F	497-4975-1-ND	2.93V Open Drain MPU Reset	SOT-143-4	.99	.80	.60
STM6315SDW13F	497-4975-2-ND	2.93V Open Drain MPU Reset	SOT-143-4	942.00/3,000		

Voltage Detectors

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STM1061N16WX6F	497-4949-1-ND	1.6V Low Power Voltage Detector	SOT-23	.65	.52	.39
STM1061N16WX6F	497-4949-2-ND	1.6V Low Power Voltage Detector	SOT-23	585.00/3,000		
STM1061N17WX6F	497-4950-1-ND	1.7V Low Power Voltage Detector	SOT-23	.65	.52	.39
STM1061N17WX6F	497-4950-2-ND	1.7V Low Power Voltage Detector	SOT-23	585.00/3,000		
STM1061N22WX6F	497-4951-1-ND	2.2V Low Power Voltage Detector	SOT-23	.65	.52	.39
STM1061N22WX6F	497-4951-2-ND	2.2V Low Power Voltage Detector	SOT-23	585.00/3,000		
STM1061N23WX6F	497-4952-1-ND	2.3V Low Power Voltage Detector	SOT-23	.65	.52	.39
STM1061N23WX6F	497-4952-2-ND	2.3V Low Power Voltage Detector	SOT-23	585.00/3,000		
STM1061N25WX6F	497-6181-1-ND	2.5V Low Power Voltage Detector*	SOT-23	.65	.52	.39
STM1061N25WX6F	497-6181-2-ND	2.5V Low Power Voltage Detector*	SOT-23	585.00/3,000		
STM1061N26WX6F	497-4953-1-ND	2.6V Low Power Voltage Detector	SOT-23	.65	.52	.39
STM1061N26WX6F	497-4953-2-ND	2.6V Low Power Voltage Detector	SOT-23	585.00/3,000		
STM1061N27WX6F	497-4954-1-ND	2.7V Low Power Voltage Detector	SOT-23	.65	.52	.39
STM1061N27WX6F	497-4954-2-ND	2.7V Low Power Voltage Detector	SOT-23	585.00/3,000		
STM1061N28WX6F	497-4955-1-ND	2.8V Low Power Voltage Detector	SOT-23	.65	.52	.39
STM1061N28WX6F	497-4955-2-ND	2.8V Low Power Voltage Detector	SOT-23	585.00/3,000		
STM1061N29WX6F	497-4956-1-ND	2.9V Low Power Voltage Detector	SOT-23	.65	.52	.39
STM1061N29WX6F	497-4956-2-ND	2.9V Low Power Voltage Detector	SOT-23	585.00/3,000		
STM1061N31WX6F	497-4957-1-ND	3.1V Low Power Voltage Detector	SOT-23	.65	.52	.39
STM1061N31WX6F	497-4957-2-ND	3.1V Low Power Voltage Detector	SOT-23	585.00/3,000		
STM1061N34WX6F	497-4958-1-ND	3.4V Low Power Voltage Detector	SOT-23	.65	.52	.39
STM1061N34WX6F	497-4958-2-ND	3.4V Low Power Voltage Detector	SOT-23	585.00/3,000		
STM1061N38WX6F	497-5315-1-ND	1.6V Low Power Voltage Detector*	SOT-23	.68	.54	.41
STM1061N38WX6F	497-5315-2-ND	1.6V Low Power Voltage Detector*	SOT-23	642.00/3,000		

STMicroelectronics Digi-Reel®

POWER SUPPLY

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
L200CV	497-1382-5-ND	Adj. Voltage/Current Regulator	5-Pentawatt	1.92	1.60	1.35
L296	497-2939-5-ND	High Current Switching Regulator	15-Multiwatt	7.02	6.41	5.07
L296HT	497-3994-5-ND	High Current Switching Regulator	15-Multiwatt	8.51	7.77	6.15
L296P	497-1392-5-ND	High Current Switching Regulator	15-Multiwatt	8.63	7.88	6.23
L296PHT	497-3995-5-ND	High Current Switching Regulator	15-Multiwatt	8.86	8.09	6.40
E-L4957AD1.5	497-5327-5-ND	5A ULDO Linear Regulator*	D2-PAK	2.52	2.10	1.77
L4957AD1.8	497-5290-5-ND	1.8V, 5A ULDO LInear Regulator*	D^2-PAK	2.52	2.10	1.77
L4960	497-1406-5-ND	2.5A Power Switching Regulator*	Heptawatt	4.37	3.81	2.84
E-L4960	497-4555-5-ND	2.5A Power Switching Regulator*	Heptawatt	4.37	3.81	2.84
L4960H	497-2942-5-ND	2.5A Power Switching Regulator	7-Heptawatt	4.86	4.23	3.15
L4962/A	497-1407-5-ND	1.5A Power Switching Regulator	16-Power Dip	2.91	2.43	2.04
L4962E/A	497-2943-5-ND	1.5A Power Switching Regulator	7-Heptawatt	5.13	4.47	3.33
L4963D	497-1408-5-ND	1.5A Switching Regulator	20-SOIC	4.59	4.00	2.98
L4964	497-1409-5-ND	High Current Switching Regulator	15-Multiwatt	8.05	7.35	5.81
L4970A	497-1410-5-ND	10A Switching Regulator	15-Multiwatt	13.40	12.40	9.38

** RoHS Compliant*

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
E-L4971D	497-4556-5-ND	1.5A Step-Down Switching Reg.*	16-SOIC	4.70	4.09	3.05
L4971D013TR	497-3357-1-ND	1.5A Step-Down Switching Regulator	16-SOIC	4.05	3.53	2.63
L4971D013TR	497-3357-2-ND	1.5A Step-Down Switching Regulator	16-SOIC	1995.00/1,000		
L4972AD	497-4207-5-ND	2A Step-Down Switching Regulator	20-SOIC	5.93	5.42	4.29
L4972AD013TR	497-4207-1-ND	2A Step-Down Switching Regulator	20-SOIC	6.79	6.20	4.90
L4972AD013TR	497-4207-2-ND	2A Step-Down Switching Regulator	20-SOIC	3761.25/1,000		
L4973D3.3-013TR	497-3358-1-ND	3.5A Step-Down Switching Regulator	20-SOIC	6.44	5.88	4.65
L4973D3.3-013TR	497-3358-2-ND	3.5A Step-Down Switching Regulator	20-SOIC	3570.00/1,000		
L4973D5.1	497-1412-5-ND	3.5A Step-Down Switching Regulator	20-SOIC	6.62	6.05	4.79
L4973D5.1-013TR	497-3359-1-ND	3.5A Step-Down Switching Regulator	20-SOIC	6.21	5.67	4.49
L4973D5.1-013TR	497-3359-2-ND	3.5A Step-Down Switching Regulator	20-SOIC	3443.00/1,000		
E-L4973V3.3	497-4558-5-ND	3.5A Step-Down Switching Regulator*	18-Power Dip	6.44	5.88	4.65
L4975A	497-5335-5-ND	5A Switching Regulator*	15-Multiwatt	10.80	9.99	7.56
L4976D013TR	497-3360-1-ND	1A Step-Down Switching Regulator	16-SOIC	4.13	3.60	2.68
L4976D013TR	497-3360-2-ND	1A Step-Down Switching Regulator	16-SOIC	2034.90/1,000		
L4977A	497-5336-5-ND	7A Switching Regulator*	15-Multiwatt	11.40	10.55	7.98
L4978D	497-5794-5-ND	2A Step-Down Switching Regulator*	16-SOIC	4.89	4.26	3.17
L4978D013TR	497-4559-1-ND	2A Step-Down Switching Regulator*	16-SOIC	4.89	4.26	3.17
L4978D013TR	497-4559-2-ND	2A Step-Down Switching Regulator*	16-SOIC	2407.30/1,000		
L4981A	497-3634-ND	Power Factor Corrector	20-Dip	5.40	4.70	3.50
E-L4981A	497-4560-ND	Power Factor Corrector*	20-Dip	5.40	4.70	3.50
E-L4981AD013TR	497-4562-1-ND	Power Factor Corrector*	20-SOIC	5.40	4.70	3.50
E-L4981AD013TR	497-4562-2-ND	Power Factor Corrector*	20-SOIC	2660.00/1,000		
L4981B	497-5337-5-ND	Power Factor Corrector*	20-Dip	6.08	5.29	3.94
L4981BD	497-5338-5-ND	Power Factor Corrector*	20-SOIC	6.08	5.29	3.94
L4981BD013TR	497-5339-1-ND	Power Factor Corrector*	20-SOIC	6.08	5.29	3.94
L4981BD013TR	497-5339-2-ND	Power Factor Corrector*	20-SOIC	2993.00/1,000		
L5970ADTR	497-6140-1-ND	1.5A Step-Down Switching Reg.*	8-SOIC	3.51	3.06	2.28
L5970ADTR	497-6140-2-ND	1.5A Step-Down Switching Reg.*	8-SOIC	4160.00/2,500		
L5970D013TR	497-3636-1-ND	Up to 1A Step-Down Switching Regulator*	8-SOIC	3.36	2.80	2.36
L5970D013TR	497-3636-2-ND	Up to 1A Step-Down Switching Regulator*	8-SOIC	3584.00/2,500		
L5971D	497-1416-5-ND	1.5A Step-Down Switching Regulator	16-SOIC	4.70	4.09	3.05
E-L5972D013TR	497-4564-1-ND	2A Step-Down Switching Regulator*	8-SOIC	3.51	3.06	2.28
L5973AD	497-4565-5-ND	2.5A Step-Down Switching Reg.*	8-HSOP	3.65	3.18	2.37
L5973ADTR	497-5328-1-ND	2.5A Step-Down Switching Reg.*	8-HSOP	3.65	3.18	2.37
L5973ADTR	497-5328-2-ND	2.5A Step-Down Switching Reg.*	8-HSOP	4320.00/2,500		
L5973D013TR	497-4566-1-ND	2.5A Step-Down Switching Reg.*	8-HSOP	3.38	2.94	2.19
L5973D013TR	497-4566-2-ND	2.5A Step-Down Switching Reg.*	8-HSOP	4000.00/2,500		
E-L5991A	497-5287-5-ND	Primary Controller with Standby*	16-Dip	2.16	1.80	1.52
E-L5991AD	497-5288-5-ND	Primary Controller with Standby*	16-SOIC	2.16	1.80	1.52
L5991A	497-5722-ND	Primary Controller with Standby*	16-Dip	2.25	1.88	1.58
L5991AD13TR	497-3996-1-ND	Primary Controller with Standby	16-SOIC	2.16	1.80	1.52
L5991AD13TR	497-3996-2-ND	Primary Controller with Standby	16-SOIC	2340.00/2,500		
L5991D013TR	497-3997-1-ND	Primary Controller with Standby	16-SOIC	3.78	3.29	2.45
L5991D013TR	497-3997-2-ND	Primary Controller with Standby	16-SOIC	4480.00/2,500		
L5993D	497-2387-5-ND	Constant Power Controller	16-SOIC	3.78	3.29	2.45
L6382D	497-4802-5-ND	High Voltage Half Bridge Driver	20-SOIC	2.88	2.40	2.02
L6382D5	497-5356-5-ND	High Voltage Half Bridge Driver*	20-SOIC	3.21	2.80	2.09
L6382D5TR	497-4615-1-ND	High Voltage Half Bridge Driver	20-SOIC	3.21	2.80	2.09
L6382D5TR	497-4615-2-ND	High Voltage Half Bridge Driver	20-SOIC	1583.00/1,000		
E-L6561	497-4580-ND	Power Factor Corrector*	8-MiniDip	1.56	1.30	1.10
E-L6561D	497-4581-5-ND	Power Factor Corrector*	8-SOIC	1.56	1.30	1.10
L6561D013TR	497-4582-1-ND	Power Factor Corrector*	8-SOIC	1.56	1.30	1.10
L6561D013TR	497-4582-2-ND	Power Factor Corrector*	8-SOIC	1690.00/2,500		
L6562ADTR	497-6294-1-ND	Transition-Mode PFC Controller*	8-SOIC	1.69	1.47	1.13
L6562ADTR	497-6294-2-ND	Transition-Mode PFC Controller*	8-SOIC	1497.50/2,500		
L6562AN	497-6295-5-ND	Transition-Mode PFC Controller*	8-Dip	1.50	1.25	1.05
E-L6562DTR	497-4583-1-ND	Transition-Mode PFC Controller*	8-SOIC	1.69	1.47	1.13
E-L6562DTR	497-4583-2-ND	Transition-Mode PFC Controller*	8-SOIC	1497.50/2,500		
L6562N	497-5329-5-ND	Transition-Mode PFC Controller*	8-Dip	1.69	1.47	1.13
L6563ATR	497-6129-1-ND	Transition-Mode PFC Controller*	14-SOIC	1.31	1.14	.88
L6563ATR	497-6129-2-ND	Transition-Mode PFC Controller*	14-SOIC	1165.00/2,500		
L6563TR	497-6130-1-ND	Transition-Mode PFC Controller*	14-SOIC	1.73	1.50	1.15
L6563TR	497-6130-2-ND	Transition-Mode PFC Controller*	14-SOIC	1530.00/2,500		
L6565DTR	497-4584-1-ND	Quasi-Resonant SMPS Controller*	8-SOIC	1.65	1.38	1.16
L6565DTR	497-4584-2-ND	Quasi-Resonant SMPS Controller*	8-SOIC	1787.50/2,500		
L6565N	497-5795-5-ND	Quasi-Resonant SMPS Controller*	8-Dip	1.56	1.30	1.10
L6566ATR	497-6296-1-ND	Multi-Mode SMPS Controller*	16-SOIC	1.80	1.50	1.26
L6566ATR	497-6296-2-ND	Multi-Mode SMPS Controller*	16-SOIC	1950.00/2,500		
L6566BTR	497-6297-1-ND	Multi-Mode SMPS Controller*	16-SOIC	1.80	1.50	1.26
L6566BTR	497-6297-2-ND	Multi-Mode SMPS Controller*	16-SOIC	1950.00/2,500		
E-L6569	497-4585-5-ND	HV Half Bridge Driver with Oscillator*	8-Dip	2.85	2.38	2.00
L6569A	497-3654-ND	HV Half Bridge Driver with Oscillator	8-MiniDip	2.55	2.13	1.79
L6569AD	497-1439-5-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2.85	2.38	2.00
L6569AD013TR	497-5359-1-ND	HV Half Bridge Driver with Oscillator*	8-SOIC	2.85	2.38	2.00
L6569AD013TR	497-5359-2-ND	HV Half Bridge Driver with Oscillator*	8-SOIC	3087.50/2,500		
L6569D	497-5796-5-ND	HV Half Bridge Driver with Oscillator*	8-SOIC	2.85	2.38	2.00
L6571A	497-5360-5-ND	HV Half Bridge Driver w/Oscillator*	8-MiniDip	2.25	1.88	1.58
L6571AD	497-5361-5-ND	HV Half Bridge Driver with Oscillator*	8-SOIC	1.80	1.50	1.26
L6571AD013TR	497-3367-1-ND	HV Half Bridge Driver with Oscillator	8-SOIC	1.65	1.38	1.16
L6571AD013TR	497-3367-2-ND	HV Half Bridge Driver with Oscillator	8-SOIC	1787.50/2,500		
L6571BD013TR	497-3655-1-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2.55	2.13	1.79
E-L6571BD013TR	497-4586-1-ND	HV Half Bridge Driver with Oscillator*	8-SOIC	2.70	2.25	1.89
E-L6571BD013TR	497-4586-2-ND	HV Half Bridge Driver with Oscillator*	8-SOIC	2925.00/2,500		
L6574D013TR	497-4018-1-ND	CFL/TL Ballast Driver Preheat and Dimming	16-SOIC	2.81	2.45	1.82
L6574D013TR	497-4018-2-ND	CFL/TL Ballast Driver Preheat and Dimming	16-SOIC	3327.50/2,500		
E-L6574D013TR	497-4587-1-ND	CFL/TL Ballast Driver Preheat and Dimming*	16-SOIC	2.81	2.45	1.82
E-L6574D013TR	497-4587-2-ND	CFL/TL Ballast Driver Preheat and Dimming*	16-SOIC	3328.00/2,500		
L6585DTR	497-6102-1-ND	Combo IC for PFC/Ballast Control*	20-SOIC	4.32	3.76	2.80
L6585DTR	497-6102-2-ND	Combo IC for PFC/Ballast Control*	20-SOIC	2128.00/1,000		
L6590D013TR	497-4019-1-ND	Fully Integrated Power Supply	16-SOIC	4.19	3.65	2.72
L6590D013TR	497-4019-2-ND	Fully Integrated Power Supply	16-SOIC	2062.00/1,000		
L6590N	497-5362-5-ND	Fully Integrated Power Supply*	8-MiniDip	4.19	3.65	2.72
L6598D013TR	497-4020-1-ND	High Voltage Resonant Controller	16-SOIC	4.32	3.76	2.80
L6598D013TR	497-4020-2-ND	High Voltage Resonant Controller	16-SOIC	3167.50/2,500		
E-L6598D013TR	497-4588-1-ND	High Voltage Resonant Controller*	16-SOIC	2.97	2.48	2.08
E-L6598D013TR	497-4588-2-ND	High Voltage Resonant Controller*	16-SOIC	3217.50/2,500		
L6599DTR	497-6156-1-ND	High Voltage Resonant Controller*	16-SOIC	4.05	3.53	2.63
L6599DTR	497-6156-2-ND	High Voltage Resonant Controller*	16-SOIC	4800.00/2,500		
L6599N	497-5723-ND	High Voltage Resonant Controller*	16-Dip	4.05	3.53	2.63
L6615D013TR	497-4023-1-ND	High/Low Side Load Share Controller	8-SOIC	2.43	2.03	1.71
L6615D013TR	497-4023-2-ND	High/Low Side Load Share Controller	8-SOIC	2632.50/2,500		
L6668TR	497-5094-1-ND	Smart Primary Controller*	16-SOIC	2.10	1.75	1.47
L6711TR	497-5363-1-ND	3-Phase Controller*	48-TQFP	4.70	4.09	3.05
L6711TR	497-5363-2-ND	3-Phase Controller*	48-TQFP	5553.60/2,400		
L6712ADTR	497-4218-1-ND	2-Phase Interleaved DC/DC Controller	28-SOIC	5.80	5.30	4.19
L6712ADTR	497-4218-2-ND	2-Phase Interleaved DC/DC Controller	28-SOIC	3213.00/1,000		
L6712AQTR	497-5179-1-ND	2-Phase Interleaved DC/DC Controller*	36-VFQFPN	6.48	5.64	4.20
L6712AQTR	497-5179-2-ND	2-Phase Interleaved DC/DC Controller*	36-VFQFPN	7680.00/2,500		
L6712D	497-5364-5-ND	2-Phase Interleaved DC/DC Controller*	28-SOIC	6.48	5.64	4.20
L6712DTR	497-4936-1-ND	2-Phase Interleaved DC/DC Controller	28-SOIC	6.48	5.64	4.20
L6712DTR	497-4936-2-ND	2-Phase Interleaved DC/DC Controller	28-SOIC	3192.00/1,000		
L6712Q	497-5365-5-ND	2-Phase Interleaved DC/DC Controller*	36-VFQFPN	6.48	5.64	4.20
L6712QTR	497-4219-1-ND	2-Phase Interleaved DC/DC Controller	36-VFQFPN	6.48	5.64	4.20
L6714TR	497-5095-1-ND	4-Phase Controller with Embedded Drivers*	64-TQFP	3.65	3.18	2.37
L6714TR	497-5095-2-ND	4-Phase Controller with Embedded Drivers*	64-TQFP	1796.00/1,000		
L6722TR	497-5904-1-ND	3-Phase Controller for DC/DC Converters*	36-VFQFPN	3.51	3.06	2.28
L6722TR	497-5904-2-ND	3-Phase Controller for DC/DC Converters*	36-VFQFPN	4160.00/2,500		
L6725ATR	497-5905-1-ND	Voltage Mode PWM Controller with Bootstrap Anti-discharging System*	16-SOIC	1.80	1.50	1.26
L6725ATR	497-5905-2-ND	Voltage Mode PWM Controller with Bootstrap Anti-discharging System*	16-SOIC	1950.00/2,500		
L6725TR	497-5096-1-ND	Voltage Mode PWM Controller with Bootstrap Anti-discharging System*	16-SOIC	1.56	1.30	1.10
L6725TR	497-5096-2-ND	Voltage Mode PWM Controller with Bootstrap Anti-discharging System*	16-SOIC	1690.00/2,500		
L6726ATR	497-5906-1-ND	Single Phase PWM Controller*	8-SOIC	1.50	1.30	1.00
L6726ATR	497-5906-2-ND	Single Phase PWM Controller*	8-SOIC	1330.00/2,500		
L6727TR	497-5907-1-ND	Single Phase PWM Controller*	8-SOIC	1.68	1.40	1.18
L6727TR	497-5907-2-ND	Single Phase PWM Controller*	8-SOIC	1820.00/2,500		
L6730	497-5291-5-ND	Adjustable Step-Down Controller*	20-HTSSOP	2.40	2.00	1.68
L6730BTR	497-5097-1-ND	Adjustable Step-Down Controller*	20-HTSSOP	2.40	2.00	1.68
L6730BTR	497-5097-2-ND	Adjustable Step-Down Controller*	20-HTSSOP	2600.00/2,500		
L6730TR	497-5098-1-ND	Adjustable Step-Down Controller*	20-HTSSOP	2.40	2.00	1.68
L6730TR	497-5098-2-ND	Adjustable Step-Down Controller*	20-HTSSOP	2600.00/2,500		
L6731BTR	497-5099-1-ND	Adjustable Step-Down Controller*	16-HTSSOP	1.68	1.40	1.18
L6731BTR	497-5099-2-ND	Adjustable Step-Down Controller*	16-HTSSOP	2437.50/2,500		
L6731DTR	497-6112-1-ND	Adjustable Step-Down Controller with Sync. Rectification*	16-HTSSOP	2.25	1.88	1.58
L6731DTR	497-6112-2-ND	Adjustable Step-Down Controller with Sync. Rectification*	16-HTSSOP	2437.50/2,500		
L6732TR	497-5240-1-ND	Adjustable Step-Down Controller*	16-HTSSOP	2.25	1.88	1.58
L6732TR	497-5240-2-ND	Adjustable Step-Down Controller*	16-HTSSOP	2437.50/2,500		
L6740LTR	497-6298-1-ND	Hybrid Controller for AMD*	48-HTQFP	4.86	4.23	3.15
L6740LTR	497-6298-2-ND	Hybrid Controller for AMD*	48-HTQFP	5745.60/2,400		
L6741TR	497-6299-1-ND	High Current MOSFET Driver*	8-SOIC	1.04	.83	.63
L6741TR	497-6299-2-ND	High Current MOSFET Driver*	8-SOIC	820.00/2,500		
L6743QTR	497-6300-1-ND	High Current MOSFET Driver*	10-DFN	1.31	1.14	.88
L6743QTR	497-6300-2-ND	High Current MOSFET Driver*	10-DFN	1864.00/4,000		
L6743TR	497-6301-1-ND	High Current MOSFET Driver*	8-SOIC	.94	.82	.63
L6743TR	497-6301-2-ND	High Current MOSFET Driver*	8-SOIC	832.50/2,500		
E-L6902D	497-4589-ND	Switching Regulator with Adjustable Current Limit*	8-SOIC	3.78	3.29	2.45
E-L6902D013TR	497-5330-1-ND	Switching Regulator with Adjustable Current Limit*	8-SOIC	3.78	3.29	2.45
E-L6902D013TR	497-5330-2-ND	Switching Regulator with Adjustable Current Limit*	8-SOIC	4480.00/2,500		
E-L6910	497-4590-5-ND	Adjustable Step-Down Controller with Sync. Rectification*	16-SOIC	2.97	2.59	1.93
L6910ATR	497-5293-1-ND	Adjustable Step-Down Controller with Sync. Rectification*	16-HTSSOP	2.94	2.45	2.06
L6910ATR	497-5293-2-ND	Adjustable Step-Down Controller with Sync. Rectification*	16-HTSSOP	3185.00/2,500		
E-L6910ATR	497-5331-1-ND	Adjustable Step-Down Controller with Sync. Rectification*	16-HTSSOP	2.97	2.59	1.93
E-L6910ATR	497-5331-2-ND	Adjustable Step-Down Controller with Sync. Rectification*	16-HTSSOP	3520.00/2,500		
E-L6910TR	497-4591-1-ND	Adjustable Step-Down Controller with Sync. Rectification*	16-SOIC	2.97	2.59	1.93
E-L6910TR	497-4591-2-ND	Adjustable Step-Down Controller with Sync. Rectification*	16-SOIC	3520.00/2,500		
L6910GTR	497-6111-1-ND	Adjustable Step-Down Controller with Sync. Rectification*	16-SOIC	2.94	2.45	2.06
L6910GTR	497-6111-2-ND	Adjustable Step-Down Controller with Sync. Rectification*	16-SOIC	3185.00/2,500		
L6911CTR	497-6109-1-ND	5-Bit Prog. Step-Down Controller with Sync. Rectification*	20-SOIC	2.84	2.47	1.84
L6911CTR	497-6109-2-ND	5-Bit Prog. Step-Down Controller with Sync. Rectification*	20-SOIC	1397.00/1,000		
L6911DTR	497-6110-1-ND	5-Bit Prog. Step-Down Controller with Sync. Rectification*	20-SOIC	2.84	2.47	1.84
L6911DTR	497-6110-2-ND	5-Bit Prog. Step-Down Controller with Sync. Rectification*	20-SOIC	1397.00/1,000		
L6917BDTR	497-5883-1-ND	5-Bit Prog. Dual-Phase Controller*	28-SOIC	5.59	4.87	3.63
L6917BDTR	497-5883-2-ND	5-Bit Prog. Dual-Phase Controller*	28-SOIC	2753.00/1,000		
E-L6919ETR	497-4592-1-ND	5-Bit Prog. Dual-Phase Controller*	28-SOIC	3.68	3.36	2.66
E-L6919ETR	497-4592-2-ND	5-Bit Prog. Dual-Phase Controller*	28-SOIC	2128.00/1,000		
L6920DB	497-4812-5-ND	1V High Eff. Sync. Step-Up Converter	8-MSOP	2.25	1.88	1.58
L6920DBTR	497-5241-1-ND	1V High Eff. Sync. Step-Up Converter*	8-MSOP	2.25	1.88	1.58
L6920DBTR	497-5241-2-ND	1V High Eff. Sync. Step-Up Converter*	8-MSOP	3900.00/4,000		
L6920DCTR	497-6106-1-ND	1V High Eff. Sync. Step-Up Converter*	8-MSOP	2.25	1.88	1.58

***** *RoHS Compliant*

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POWER SUPPLY *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
L6920DCTR	497-6106-2-ND	1V High Eff. Sync. Step-Up Converter*	8-MSOP	3900.00/4,000		
L6920DTR	497-3368-1-ND	1V High Eff. Sync. Step-Up Converter	8-TSSOP	2.97	2.59	1.93
L6920DTR	497-3368-2-ND	1V High Eff. Sync. Step-Up Converter	8-TSSOP	5632.00/4,000		
L6924D013TR	497-5100-1-ND	Battery Charger System*	16-VFQFPN	2.97	2.59	1.93
L6924D013TR	497-5100-2-ND	Battery Charger System*	16-VFQFPN	5632.00/4,000		
L6925D013TR	497-3369-1-ND	High Eff. Mono Sync. Step-Down Regulator	8-MSOP	2.55	2.13	1.79
E-L6925D013TR	497-4594-1-ND	High Eff. Mono Sync. Step-Down Regulator*	8-MSOP	2.55	2.13	1.79
E-L6925D013TR	497-4594-2-ND	High Eff. Mono Sync. Step-Down Regulator*	8-MSOP	4420.00/4,000		
L6926Q1TR	497-5101-1-ND	High Efficiency Mono Sync. Step-Down Regulator*	8-VFQFPN	2.76	2.30	1.94
L6926Q1TR	497-5101-2-ND	High Efficiency Mono Sync. Step-Down Regulator*	8-VFQFPN	4784.00/4,000		
L6928D013TR	497-4222-1-ND	High Efficiency Mono Sync. Step-Down Regulator	8-MSOP	2.73	2.28	1.92
L6928D013TR	497-4222-2-ND	High Efficiency Mono Sync. Step-Down Regulator	8-MSOP	4732.00/4,000		
L6928Q1TR	497-5180-1-ND	High Efficiency Mono Sync. Step-Down Regulator*	8-VFQFPN	2.22	1.85	1.56
L6928Q1TR	497-5180-2-ND	High Efficiency Mono Sync. Step-Down Regulator*	8-VFQFPN	3848.00/4,000		
E-L6932D1.2	497-5057-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	2.85	2.38	2.00
E-L6932D1.2TR	497-4596-1-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	2.85	2.38	2.00
L6932D1.2TR	497-5724-1-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	2.52	2.10	1.77
L6932D1.2TR	497-5724-2-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	2730.00/2,500		
L6932D1.5TR	497-5102-1-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	1.89	1.58	1.33
L6932D1.5TR	497-5102-2-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	2730.00/2,500		
L6932D1.8TR	497-5882-1-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	2.52	2.10	1.77
L6932D1.8TR	497-5882-2-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	2730.00/2,500		
L6932D2.5TR	497-5909-1-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	2.52	2.10	1.77
L6932D2.5TR	497-5909-2-ND	High Perf. 2A ULDO Linear Regulator*	8-SOIC	2730.00/2,500		
L6933H1.2TR	497-6145-1-ND	High Perf. 2A ULDO Linear Regulator*	8-HSOP	2.52	2.10	1.77
L6933H1.2TR	497-6145-2-ND	High Perf. 2A ULDO Linear Regulator*	8-HSOP	2730.00/2,500		
L6997STR	497-4225-1-ND	Step-Down Controller	20-TSSOP	3.78	3.29	2.45
L6997STR	497-4225-2-ND	Step-Down Controller	20-TSSOP	4480.00/2,500		
L6926013TR	497-4595-1-ND	Regulator Sync. Step-Down*	8-MSOP	2.64	2.20	1.85
L6926013TR	497-4595-2-ND	Regulator Sync. Step-Down*	8-MSOP	4576.00/4,000		
E-SG2525AN	497-4644-5-ND	Regulator Pulse Width Modulator*	16-Dip	1.77	1.48	1.24
SG2525AP013TR	497-2039-1-ND	Regulator Pulse Width Modulator	16-SOIC	1.77	1.48	1.24
SG2525AP013TR	497-2039-2-ND	Regulator Pulse Width Modulator	16-SOIC	1625.00/2,500		
E-SG2525AP013TR	497-4683-1-ND	Regulator Pulse Width Modulator*	16-SOIC	1.77	1.48	1.24
E-SG2525AP013TR	497-4683-2-ND	Regulator Pulse Width Modulator*	16-SOIC	1917.50/2,500		
SG3524N	497-2992-5-ND	Regulator Pulse Width Modulator	16-Dip	1.65	1.43	1.10
SG3524P	497-5377-5-ND	Regulator Pulse Width Modulator*	16-SOIC	1.77	1.48	1.24
SG3524P013TR	497-2040-1-ND	Regulator Pulse Width Modulator	16-SOIC	1.58	1.37	1.05
SG3524P013TR	497-2040-2-ND	Regulator Pulse Width Modulator	16-SOIC	1396.50/2,500		
SG3525AN	497-2041-5-ND	Regulator Pulse Width Modulator	16-Dip	1.58	1.37	1.05
STSR2PCD	497-5404-5-ND	Forward Sync. Rectifier Smart Driver*	8-SOIC	3.78	3.29	2.45
STSR2PCD-TR	497-2154-1-ND	Forward Sync. Rectifier Smart Driver	8-SOIC	3.78	3.29	2.45
STSR2PCD-TR	497-2154-2-ND	Forward Sync. Rectifier Smart Driver	8-SOIC	4480.00/2,500		
STSR2PMCD-TR	497-5405-1-ND	Forward Sync. Rectifier Smart Driver*	8-SOIC	3.78	3.29	2.45
STSR2PMCD-TR	497-5405-2-ND	Forward Sync. Rectifier Smart Driver*	8-SOIC	4480.00/2,500		
STSR3CD	497-4400-5-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	3.73	3.25	2.42
STSR3CD-TR	497-4401-1-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	3.73	3.25	2.42
STSR3CD-TR	497-4401-2-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	4415.00/2,500		
STSR30D-TR	497-2155-1-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	3.73	3.25	2.42
STSR30D-TR	497-2155-2-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	4416.00/2,500		
TL7702ACD1013TRA	497-5427-1-ND	Supply Voltage Supervisor*	8-SOIC	1.13	.98	.75
TL7702ACD1013TRA	497-5427-2-ND	Supply Voltage Supervisor*	8-SOIC	997.50/2,500		
TL7702ACP/A	497-5208-5-ND	Supply Voltage Supervisor*	8-Mini Dip	1.13	.98	.75
TL7702AID1/A	497-2229-5-ND	Supply Voltage Supervisor	8-SOIC	1.13	.98	.75
TL7702AID1013TRA	497-5428-1-ND	Supply Voltage Supervisor*	8-SOIC	1.13	.98	.75
TL7702AID1013TRA	497-5428-2-ND	Supply Voltage Supervisor*	8-SOIC	997.50/2,500		
TL7702AIP/A	497-5209-5-ND	Supply Voltage Supervisor*	8-Mini Dip	1.13	.98	.75
TL7705ACD1013TRA	497-2230-1-ND	5V, Supply Voltage Supervisor	8-SOIC	1.13	.98	.75
TL7705ACD1013TRA	497-2230-2-ND	5V, Supply Voltage Supervisor	8-SOIC	997.50/2,500		
TL7705ACP/A	497-3676-ND	5V, Supply Voltage Supervisor	8-Mini Dip	1.13	.98	.75
TL7705AID1013TRA	497-3677-1-ND	5V, Supply Voltage Supervisor	8-SOIC	1.13	.98	.75
TL7705AID1013TRA	497-3677-2-ND	5V, Supply Voltage Supervisor	8-SOIC	997.50/2,500		
TL7705AIP/A	497-5210-5-ND	5V, Supply Voltage Supervisor*	8-Mini Dip	1.13	.98	.75
TSM101ACD	497-5442-5-ND	Voltage/Current Controller*	8-SOIC	1.16	1.01	.78
TSM101AIDT	497-2331-1-ND	Voltage/Current Controller	8-SOIC	1.16	1.01	.78
TSM101AIDT	497-2331-2-ND	Voltage/Current Controller	8-SOIC	1030.75/2,500		
TSM101CN	497-5443-5-ND	Voltage/Current Controller*	8-Dip	1.16	1.01	.78
TSM102AIDT	497-4081-1-ND	Voltage/Current Controller	16-SOIC	1.31	1.14	.88
TSM102AIDT	497-4081-2-ND	Voltage/Current Controller	16-SOIC	1165.00/2,500		
TSM102ID	497-2332-5-ND	Voltage/Current Controller	16-SOIC	1.28	1.11	.85
TSM102IDT	497-5444-1-ND	Voltage/Current Controller*	16-SOIC	1.28	1.11	.85
TSM102IDT	497-5444-2-ND	Voltage/Current Controller*	16-SOIC	1130.00/2,500		
TSM103AID	497-3104-ND	Dual Op Amp/Voltage Reference	8-SOIC	1.16	1.01	.78
TSM103ID	497-5445-5-ND	Dual Op Amp/Voltage Reference*	8-SOIC	1.05	.91	.70
TSM103IDT	497-5786-1-ND	Dual Op Amp/Voltage Reference*	8-SOIC	1.05	.91	.70
TSM103IDT	497-5786-2-ND	Dual Op Amp/Voltage Reference*	8-SOIC	930.00/2,500		
TSM104AIDT	497-5446-1-ND	Quad Op Amp/Voltage Reference*	16-SOIC	1.28	1.11	.85
TSM104AIDT	497-5446-2-ND	Quad Op Amp/Voltage Reference*	16-SOIC	1130.00/2,500		
TSM104IDT	497-5447-1-ND	Quad Op Amp/Voltage Reference*	16-SOIC	1.24	1.08	.83
TSM104IDT	497-5447-2-ND	Quad Op Amp/Voltage Reference*	16-SOIC	1097.50/2,500		
TSM104WAIDT	497-5448-1-ND	Quad Op Amp/Voltage Reference*	16-SOIC	1.24	1.08	.83
TSM104WAIDT	497-5448-2-ND	Quad Op Amp/Voltage Reference*	16-SOIC	1097.50/2,500		
TSM104WIDT	497-5449-1-ND	Quad Op Amp/Voltage Reference*	16-SOIC	1.24	1.08	.83
TSM104WIDT	497-5449-2-ND	Quad Op Amp/Voltage Reference*	16-SOIC	1097.50/2,500		
TSM108ID	497-3073-5-ND	Automotive Switch Mode Voltage and Current Controller	14-SOIC	1.50	1.30	1.00
TSM108IDT	497-2333-1-ND	Automotive Switch Mode Voltage and Current Controller	14-SOIC	1.50	1.30	1.00
TSM108IDT	497-2333-2-ND	Automotive Switch Mode Voltage and Current Controller	14-SOIC	1330.00/2,500		
TSM109AIDT	497-4082-1-ND	Dual Comparator/Voltage Reference	8-SOIC	1.58	1.37	1.05
TSM109AIDT	497-4082-2-ND	Dual Comparator/Voltage Reference	8-SOIC	1396.50/2,500		
TSM109ID	497-3074-5-ND	Dual Comparator/Voltage Reference	8-SOIC	1.50	1.30	1.00
TSM111CDT	497-5451-1-ND	Triple Volt./Current Supervisor*	20-SOIC	1.65	1.38	1.16
TSM111CDT	497-5451-2-ND	Triple Volt./Current Supervisor*	20-SOIC	743.00/1,000		
TSM111CN	497-2334-5-ND	Triple Voltage and Current Supervisor	20-Dip	2.16	1.80	1.52
TSM112CN	497-5452-5-ND	3.3V/5V/12V Housekeeping IC*	14-Dip	1.80	1.56	1.20
TSM1011AID	497-5436-5-ND	Constant Voltage/Constant Current Controller*	8-Mini SOIC	1.35	1.17	.90
TSM1011AIDT	497-4470-1-ND	Constant Voltage/Constant Current Controller	8-SOIC	1.35	1.17	.90
TSM1011AIDT	497-4470-2-ND	Constant Voltage/Constant Current Controller	8-SOIC	1197.50/2,500		
TSM1011AIST	497-4471-1-ND	Constant Voltage/Constant Current Controller	8-Mini SOIC	1.35	1.17	.90
TSM1011AIST	497-4471-2-ND	Constant Voltage/Constant Current Controller	8-Mini SOIC	1916.00/4,000		
TSM1011ID	497-5437-5-ND	Constant Voltage/Constant Current Controller*	8-SOIC	1.13	.98	.75
TSM1011IDT	497-5438-1-ND	Constant Voltage/Constant Current Controller*	8-SOIC	1.13	.98	.75
TSM1011IDT	497-5438-2-ND	Constant Voltage/Constant Current Controller*	8-SOIC	997.50/2,500		
TSM1011IST	497-5439-1-ND	Constant Voltage/Constant Current Controller*	8-SOIC	1.13	.98	.75
TSM1011IST	497-5439-2-ND	Constant Voltage/Constant Current Controller*	8-SOIC	1596.00/4,000		
TSM1012AIDT	497-4472-1-ND	Low Consumption Voltage/Current Controller	8-SOIC	1.95	1.63	1.37
TSM1012AIDT	497-4472-2-ND	Low Consumption Voltage/Current Controller	8-SOIC	2112.50/2,500		
TSM1012AIST	497-4473-1-ND	Low Consumption Voltage/Current Controller	8-Mini SOIC	1.95	1.63	1.37
TSM1012AIST	497-4473-2-ND	Low Consumption Voltage/Current Controller	8-Mini SOIC	3380.00/4,000		
TSM1013AIDT	497-4474-1-ND	Constant Voltage/Constant Current Controller	8-SOIC	1.95	1.63	1.37
TSM1013AIDT	497-4474-2-ND	Constant Voltage/Constant Current Controller	8-SOIC	2112.50/2,500		
TSM1013AIST	497-4475-1-ND	Constant Voltage/Constant Current Controller	8-Mini SOIC	1.95	1.63	1.37
TSM1013IDT	497-5440-1-ND	Constant Voltage/Constant Current Controller*	8-SOIC	1.80	1.50	1.26
TSM1013IDT	497-5440-2-ND	Constant Voltage/Constant Current Controller*	8-SOIC	1950.00/2,500		
TSM1013IST	497-5441-1-ND	Constant Voltage/Constant Current Controller*	8-Mini SOIC	1.80	1.50	1.26
TSM1013IST	497-5441-2-ND	Constant Voltage/Constant Current Controller*	8-Mini SOIC	3120.00/4,000		
TSM1014AIDT	497-4476-1-ND	Low Consumption Voltage/Current Controller	8-SOIC	1.95	1.63	1.37
TSM1014AIDT	497-4476-2-ND	Low Consumption Voltage/Current Controller	8-SOIC	2112.50/2,500		
TSM1014AIST	497-4477-1-ND	Low Consumption Voltage/Current Controller	8-Mini SOIC	1.95	1.63	1.37
TSM1014AIST	497-4477-2-ND	Low Consumption Voltage/Current Controller	8-Mini SOIC	3380.00/4,000		
TSM1051CD	497-4478-5-ND	Constant Voltage/Constant Current Controller	8-SOIC	1.01	.88	.68
TSM1051CLT	497-5450-1-ND	Constant Voltage/Constant Current Controller*	SOT-23-6	1.01	.88	.68
TSM1051CLT	497-5450-2-ND	Constant Voltage/Constant Current Controller*	SOT-23-6	1077.00/3,000		
TSM1052	497-6034-1-ND	Constant Voltage/Constant Current Controller*	SOT-23-6	1.08	.87	.65
TSM1052	497-6034-2-ND	Constant Voltage/Constant Current Controller*	SOT-23-6	1026.00/3,000		
E-UC2845BN	497-4601-5-ND	Current Mode PWM Controller*	8-Dip	1.20	1.04	.80
UC2843BN	497-3678-ND	Current Mode PWM Controller	8-Mini Dip	1.20	1.04	.80
E-UC2843BN	497-4599-5-ND	Current Mode PWM Controller*	8-Dip	1.20	1.04	.80
UC2844AN	497-3077-5-ND	Current Mode PWM Controller	8-Dip	1.13	.98	.75
UC2844BD1013TR	497-6138-1-ND	Current Mode PWM Controller*	8-SOIC	1.09	.95	.73
UC2844BD1013TR	497-6138-2-ND	Current Mode PWM Controller*	8-SOIC	964.25/2,500		
UC2844BN	497-6135-5-ND	Current Mode PWM Controller*	8-Dip	1.09	.95	.73
UC2845BD1013TR	497-3679-1-ND	Current Mode PWM Controller	8-SOIC	1.09	.95	.73
UC2845BD1013TR	497-3679-2-ND	Current Mode PWM Controller	8-SOIC	965.00/2,500		
E-UC2845BD1013TR	497-4600-1-ND	Current Mode PWM Controller*	8-SOIC	1.09	.95	.73
E-UC2845BD1013TR	497-4600-2-ND	Current Mode PWM Controller*	8-SOIC	964.25/2,500		
UC2845BN	497-3680-5-ND	Current Mode PWM Controller	8-Mini Dip	1.09	.95	.73
E-UC3842BN	497-4602-5-ND	Current Mode PWM Controller*	8-Dip	1.16	1.01	.78
UC3842BD1013TR	497-6139-1-ND	Current Mode PWM Controller*	8-SOIC	.98	.85	.65
UC3842BD1013TR	497-6139-2-ND	Current Mode PWM Controller*	8-SOIC	865.00/2,500		
UC3843BD1013TR	497-3681-1-ND	Current Mode PWM Controller	8-SOIC	.98	.85	.65
UC3843BD1013TR	497-3681-2-ND	Current Mode PWM Controller	8-SOIC	864.50/2,500		
UC3844BD1013TR	497-3682-1-ND	Current Mode PWM Controller*	8-SOIC	1.16	1.01	.78
UC3844BD1013TR	497-3682-2-ND	Current Mode PWM Controller*	8-SOIC	1030.00/2,500		
UC3844BN	497-6136-5-ND	Current Mode PWM Controller*	8-Dip	.98	.85	.65
E-UC3845BD1013TR	497-4605-1-ND	Current Mode PWM Controller*	8-SOIC	1.16	1.01	.78
E-UC3845BD1013TR	497-4605-2-ND	Current Mode PWM Controller*	8-SOIC	1030.75/2,500		
UC3845BNST	497-6137-5-ND	Current Mode PWM Controller*	8-Dip	.98	.85	.65

PROTECTION

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
DA108S1	497-2696-5-ND	Diode Array*	8-SOIC	1.43	1.24	.95
DA108S1RL	497-3399-1-ND	8 Diode Array*	8-SOIC	1.43	1.24	.95
DA108S1RL	497-3399-2-ND	8 Diode Array*	8-SOIC	1262.50/2,500		
DALC112S1	497-2695-5-ND	12 Diode Low Capacitance Array for ESD Protection*	8-SOIC	1.24	1.08	.83
DALC112S1RL	497-3400-1-ND	12 Diode Low Capacitance Array for ESD Protection*	8-SOIC	1.24	1.08	.83
DALC112S1RL	497-3400-2-ND	12 Diode Low Capacitance Array for ESD Protection*	8-SOIC	1097.50/2,500		
DALC208SC6	497-2525-1-ND	Low Capacitance Diode Array*	SOT-23-6	1.24	1.08	.83

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STMicroelectronics Digi-Reel® PROTECTION *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
DALC208SC6	497-2525-2-ND	Low Capacitance Diode Array*	SOT-23-6	1317.00/3,000		
SSRP105B1	497-4303-5-ND	Dual Asymmetrical Overvoltage Protection for Telecom Line*	8-SOIC	1.50	1.25	1.05
TPN3021RL	497-3741-1-ND	Tripolar Overvoltage Protection for Network Interfaces*	8-SOIC	1.65	1.38	1.16
TPN3021RL	497-3741-2-ND	Tripolar Overvoltage Protection for Network Interfaces*	8-SOIC	1787.50/2,500		
USB6B1	497-2727-5-ND	Data Line Protection*	8-SOIC	1.69	1.47	1.13
USB6B1RL	497-3281-1-ND	Data Line Protection*	8-SOIC	1.28	1.11	.85
USB6B1RL	497-3281-2-ND	Data Line Protection*	8-SOIC	1130.00/2,500		
USBLC6-2P6	497-5026-1-ND	Very Low Capacitance, ESD Prot.	SOT-666	.94	.82	.63
USBLC6-2P6	497-5026-2-ND	Very Low Capacitance, ESD Prot.	SOT-666	999.00/3,000		
USBLC6-4SC6	497-4492-1-ND	Very Low Cap. ESD Protection*	SOT-23-6L	1.28	1.11	.85
USBLC6-4SC6	497-4492-2-ND	Very Low Cap. ESD Protection*	SOT-23-6L	1356.00/3,000		

STMicroelectronics Digi-Reel® RFid — *RoHS Compliant*

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
LRI64-A1S/1GE	497-5532-1-ND	64-Bit Unique ID Memory Tag	—	1.70	1.48	1.14
LRI64-A1S/1GE	497-5532-2-ND	64-Bit Unique ID Memory Tag	—	1812.00/3,000		
LRI2K-A1S/1GE	497-5533-1-ND	64-Bit Unique ID Memory Tag	—	1.50	1.30	1.00
LRI2K-A1S/1GE	497-5533-2-ND	64-Bit Unique ID Memory Tag	—	1596.00/3,000		
LRIS2K-A1S/1GE	497-5534-1-ND	64-Bit Unique ID Memory Tag	—	1.80	1.56	1.20
LRIS2K-A1S/1GE	497-5534-2-ND	64-Bit Unique ID Memory Tag	—	1914.00/3,000		
SRIX4K-A3S/1GE	497-5536-1-ND	13.56MHz Short Range Contactless Memory Chip	—	2.17	1.81	1.53
SRIX4K-A3S/1GE	497-5536-2-ND	13.56MHz Short Range Contactless Memory Chip	—	2823.00/3,000		
SRIX4K-A4S/1GE	497-5537-1-ND	13.56MHz Short Range Contactless Memory Chip	—	2.17	1.81	1.53
SRIX4K-A4S/1GE	497-5537-2-ND	13.56MHz Short Range Contactless Memory Chip	—	2823.00/3,000		

STMicroelectronics Digi-Reel® SERIAL REAL-TIME CLOCKS

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M41T11M6E	497-2813-5-ND	2V-5.5V, 512-Bit Serial RTC	8-SOIC	3.56	3.11	2.31
M41T11M6F	497-4699-1-ND	2V-5.5V, 512-Bit Serial RTC	8-SOIC	3.56	3.11	2.31
M41T11M6F	497-4699-2-ND	2V-5.5V, 512-Bit Serial RTC	8-SOIC	4225.00/2,500		
M41T11MH6	497-2814-5-ND	2V-5.5V, 512-Bit Serial RTC	28-SOIC	6.08	5.29	3.94
M41T11MH6F	497-4700-1-ND	2V-5.5V, 512-Bit Serial RTC	28-SOIC	6.08	5.29	3.94
M41T11MH6F	497-4700-2-ND	2V-5.5V, 512-Bit Serial RTC	28-SOIC	2948.40/936		
M41T56M6F	497-4706-1-ND	5V, 512-Bit Serial RTC	8-SOIC	2.70	2.35	1.75
M41T56M6F	497-4706-2-ND	5V, 512-Bit Serial RTC	8-SOIC	3200.00/2,500		
M41T81SM6F	497-4684-1-ND	2.7V-5.5V, Serial RTC with Alarm	8-SOIC	2.91	2.43	2.04
M41T81SM6F	497-4684-2-ND	2.7V-5.5V, Serial RTC with Alarm	8-SOIC	3152.50/2,500		
M41T81SMY6F	497-6157-1-ND	2.7V-5.5V, Serial RTC with Alarm*	18-SOIC	4.59	4.00	2.98
M41T81SMY6F	497-6157-2-ND	2.7V-5.5V, Serial RTC with Alarm*	18-SOIC	2261.00/1,000		
M41T82RM6E	497-5799-5-ND	2.7V-5.5V, Serial RTC with Battery Switchover*	8-SOIC	2.89	2.52	1.88
M41T93RMY6F	497-6020-1-ND	2.7V-5.5V Serial SPI Bus RTC with Battery Switchover*	18-SOX	5.00	4.35	3.24
M41T93RMY6F	497-6020-2-ND	2.7V-5.5V Serial SPI Bus RTC with Battery Switchover*	18-SOX	2461.00/1,000		
M41T93RQA6F	497-6302-1-ND	2.7V-5.5V Serial SPI Bus RTC with Battery Switchover*	16-QFN	5.00	4.35	3.24
M41T93RQA6F	497-6302-2-ND	2.7V-5.5V Serial SPI Bus RTC with Battery Switchover*	16-QFN	2461.00/1,000		
M41T93SQA6F	497-6303-1-ND	3.0V-5.5V Serial SPI Bus RTC with Battery Switchover*	16-QFN	5.00	4.35	3.24
M41T93SQA6F	497-6303-2-ND	3.0V-5.5V Serial SPI Bus RTC with Battery Switchover*	16-QFN	2460.50/1,000		
M41T93ZQA6F	497-6304-1-ND	2.38V-5.5V Serial SPI Bus RTC with Battery Switchover*	16-QFN	5.00	4.35	3.24
M41T93ZQA6F	497-6304-2-ND	2.38V-5.5V Serial SPI Bus RTC with Battery Switchover*	16-QFN	2460.50/1,000		
M41T94MH6	497-2823-5-ND	2.7V-5.5V 512-Bit Serial RTC SRAM	28-SOIC	5.80	5.30	4.19
M41T94MQ6E	497-3684-ND	2.7V-5.5V 512-Bit Serial RTC SRAM	16-SOIC	4.13	3.60	2.68
M41ST84WMQ6E	497-2802-5-ND	3V, NVRAM 512-Bit Serial RTC	16-SOIC	4.59	4.00	2.98
M41ST84WMQ6F	497-4693-1-ND	3V, NVRAM 512-Bit Serial RTC	16-SOIC	4.59	4.00	2.98
M41ST84WMQ6F	497-4693-2-ND	3V, NVRAM 512-Bit Serial RTC	16-SOIC	5440.00/2,500		
M41ST85WMH6	497-2804-5-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	7.82	7.14	5.65
M41ST85WMH6F	497-4695-1-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	7.82	7.14	5.65
M41ST85WMH6F	497-4695-2-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	4137.12/936		
M41ST85WMX6	497-2805-5-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	6.44	5.88	4.65
M41ST87YMX6	497-2808-5-ND	5V, NVRAM 1280-Bit Serial RTC	28-SOIC	7.82	7.14	5.65
M41ST95WMX6	497-2809-5-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	6.90	6.30	4.98
M41T00M6F	497-4697-1-ND	Serial Access RTC	8-SOIC	2.70	2.25	1.89
M41T00M6F	497-4697-2-ND	Serial Access RTC	8-SOIC	2925.00/2,500		
M41T00M606E	497-2810-5-ND	Serial Access RTC	8-SOIC	2.70	2.25	1.89
M41T00SC64MY6F	497-5913-1-ND	2.7V-5.5V RTC + 64K-Bit EEPROM*	18-SOIC	6.08	5.29	3.94
M41T00SC64MY6F	497-5913-2-ND	2.7V-5.5V RTC + 64K-Bit EEPROM*	18-SOIC	2993.00/1,000		
M41T00SM6E	497-5371-5-ND	Serial Access RTC*	8-SOIC	2.70	2.25	1.89
M41T0M6E	497-2812-5-ND	2V-5.5V, Serial RTC	8-SOIC	2.22	1.85	1.56
M41T0M6F	497-4698-1-ND	2V-5.5V, Serial RTC	8-SOIC	2.22	1.85	1.56
M41T60Q6F	497-3906-1-ND	1.3V-3.6V, Serial RTC	16-QFN	1.77	1.48	1.24
M41T60Q6F	497-3906-2-ND	1.3V-3.6V, Serial RTC	16-QFN	2301.00/3,000		
M41T62Q6F	497-3907-1-ND	1.3V-3.6V, Serial RTC with Alarm	16-QFN	2.05	1.71	1.44
M41T62Q6F	497-3907-2-ND	1.3V-3.6V, Serial RTC with Alarm	16-QFN	2661.00/3,000		
M41T65Q6F	497-3908-1-ND	1.3V-3.6V, Serial RTC with Alarm	16-QFN	2.05	1.71	1.44
M41T65Q6F	497-3908-2-ND	1.3V-3.6V, Serial RTC with Alarm	16-QFN	2661.00/3,000		
M41T80M6E	497-2820-5-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	2.25	1.88	1.58
M41T80M6F	497-4708-1-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	2.25	1.88	1.58
M41T81M6E	497-2821-5-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	2.97	2.48	2.08
M41T81M6F	497-4709-1-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	2.97	2.48	2.08
M41T81M6F	497-4709-2-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	3217.50/2,500		
M41T83RQA6F	497-5914-1-ND	2V-5.5V, Serial RTC with Battery Switchover*	16-VFQFPN	4.21	3.67	2.73
M41T83RQA6F	497-5914-2-ND	2V-5.5V, Serial RTC with Battery Switchover*	16-VFQFPN	2075.00/1,000		
M41T94MH6F	497-5372-1-ND	2V-5.5V, 512K-Bit Serial RTC*	28-SOIC	5.80	5.30	4.19
M41T94MH6F	497-5372-2-ND	2V-5.5V, 512K-Bit Serial RTC*	28-SOIC	3070.08/936		
M41T94MQ6F	497-5373-1-ND	2V-5.5V, 512K-Bit Serial RTC*	16-SOIC	4.13	3.60	2.68
M41T94MQ6F	497-5373-2-ND	2V-5.5V, 512K-Bit Serial RTC*	16-SOIC	4895.00/2,500		
M41T256YMH7F	497-4701-1-ND	5V, 256K-Bit Serial RTC	44-SOIC	11.04	10.08	7.97
M41T256YMH7F	497-4701-2-ND	5V, 256K-Bit Serial RTC	44-SOIC	5840.64/936		
M41T256YMT7F	497-4702-1-ND	5V, 256K-Bit Serial RTC	44-SOIC	10.35	9.45	7.47
M41T315V-85MH6F	497-4703-1-ND	3.3V, 85nS Phantom RTC Supervisor	28-SOIC	10.68	9.88	7.48
M41T315V-85MH6F	497-4703-2-ND	3.3V, 85nS Phantom RTC Supervisor	28-SOIC	6345.14/936		

Battery and Crystal Options

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M4T28-BR12SH1	497-3686-5-ND	SNAPHAT for 28 and 44-Pin SOIC	—	5.81	5.06	3.77
M4T32-BR12SH1	497-3687-5-ND	SNAPHAT for 28 and 44-Pin SOIC	—	7.25	6.62	5.23
M4T32-BR12SH6	497-3688-5-ND	SNAPHAT for 28 and 44-Pin SOIC	—	8.40	7.67	6.06

STMicroelectronics Digi-Reel® SIGNAL

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TDA7338D013TR	497-3971-1-ND	Stereo Decoder	20-SOIC	5.75	5.25	4.15
TDA7338D013TR	497-3971-2-ND	Stereo Decoder	20-SOIC	3187.50/1,000		
TDA7400DTR	497-3977-1-ND	Advance Car Signal Processor	28-SOIC	10.07	9.20	7.28
E-TDA7400DTR	497-5050-1-ND	Advance Car Signal Processor*	28-SOIC	10.07	9.20	7.28
E-TDA7400DTR	497-5050-2-ND	Advance Car Signal Processor*	28-SOIC	5585.00/1,000		
TDA7407	497-3979-ND	Advance Car Signal Processor	44-TQFP	9.32	8.51	6.73
TDA7411TR	497-3981-1-ND	Advance Car Signal Processor	44-TQFP	10.80	9.99	7.56

STMicroelectronics Digi-Reel® STANDARD LINEAR

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
LF347DT	497-2963-1-ND	Wide Bandwidth Quad J-FET Op Amp	14-SOIC	1.09	.95	.73
LF347DT	497-2963-2-ND	Wide Bandwidth Quad J-FET Op Amp	14-SOIC	855.00/2,500		
LF347N	497-2964-5-ND	Wide Bandwidth Quad J-FET Op Amp	14-Dip	1.08	.87	.65
LF351D	497-4041-5-ND	Wide Bandwidth Single J-FET Op Amp	8-SOIC	1.04	.83	.63
LF351DT	497-4041-1-ND	Wide Bandwidth Single J-FET Op Amp	8-SOIC	.77	.62	.46
LF351DT	497-4041-2-ND	Wide Bandwidth Single J-FET Op Amp	8-SOIC	605.00/2,500		
LF351N	497-2966-5-ND	Wide Bandwidth Single J-FET Op Amp	8-Dip	.99	.80	.60
LF353DT	497-2967-1-ND	Wide Bandwidth Dual J-FET Op Amp	8-SOIC	1.08	.87	.65
LF353DT	497-2967-2-ND	Wide Bandwidth Dual J-FET Op Amp	8-SOIC	605.63/2,500		
LF353N	497-2968-5-ND	Wide Bandwidth Dual J-FET Op Amp	8-Dip	.77	.62	.46
LM124D	497-2969-5-ND	Low Power Quad Op Amp	14-SOIC	2.19	1.83	1.54
LM201AD	497-4042-5-ND	Single Op Amp	8-SOIC	1.58	1.37	1.05
LM201AN	497-2970-5-ND	Single Op Amp	8-Dip	1.54	1.34	1.03
LM211DT	497-1542-1-ND	Voltage Comparator	8-SOIC	.65	.52	.39
LM211DT	497-1542-2-ND	Voltage Comparator	8-SOIC	487.50/2,500		
LM219D	497-2971-5-ND	High Speed Dual Comparator	14-SOIC	2.44	2.12	1.63
LM219DT	497-1544-1-ND	High Speed Dual Comparator	14-SOIC	1.20	1.04	.80
LM219DT	497-1544-2-ND	High Speed Dual Comparator	14-SOIC	1065.00/2,500		
LM224ADT	497-1545-1-ND	Low Power Quad Op Amp	14-SOIC	.95	.76	.57
LM224ADT	497-1545-2-ND	Low Power Quad Op Amp	14-SOIC	534.38/2,500		
LM224AN	497-1546-5-ND	Low Power Quad Op Amp	14-Dip	.81	.65	.49
LM224APT	497-4043-1-ND	Low Power Quad Op Amp	14-TSSOP	.86	.69	.52
LM224APT	497-4043-2-ND	Low Power Quad Op Amp	14-TSSOP	677.50/2,500		
LM224DT	497-2972-1-ND	Low Power Quad Op Amp	14-SOIC	.55	.44	.33
LM224DT	497-2972-2-ND	Low Power Quad Op Amp	14-SOIC	412.50/2,500		
LM224N	497-1547-5-ND	Low Power Quad Op Amp	14-Dip	.55	.44	.33
LM224PT	497-1548-1-ND	Low Power Quad Op Amp	14-TSSOP	.80	.64	.48
LM234DT	497-1549-1-ND	3-Terminal Adj. Current Source	8-SOIC	1.61	1.40	1.08
LM234DT	497-1549-2-ND	3-Terminal Adj. Current Source	8-SOIC	1430.00/2,500		
LM239ADT	497-1550-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.77	.62	.46
LM239ADT	497-1550-2-ND	Low Power Quad Voltage Comparator	14-SOIC	605.00/2,500		
LM239AN	497-1551-5-ND	Low Power Quad Voltage Comparator	14-Dip	.90	.72	.54
LM239DT	497-2973-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.95	.76	.57
LM239DT	497-2973-2-ND	Low Power Quad Voltage Comparator	14-SOIC	375.00/2,500		
LM239N	497-1552-5-ND	Low Power Quad Voltage Comparator	14-Dip	.55	.44	.33
LM239PT	497-4044-1-ND	Low Power Quad Volt. Comparator	14-TSSOP	.65	.52	.39
LM239PT	497-4044-2-ND	Low Power Quad Volt. Comparator	14-TSSOP	412.50/2,500		
LM258AST	497-4778-1-ND	Low Power Dual Op Amp	8-Mini SOIC	.60	.48	.36
LM258AST	497-4778-2-ND	Low Power Dual Op Amp	8-Mini SOIC	720.00/4,000		
LM258DT	497-1553-1-ND	Low Power Dual Op Amp	8-SOIC	.55	.43	.26
LM258DT	497-1553-2-ND	Low Power Dual Op Amp	8-SOIC	362.50/2,500		
LM258N	497-1554-5-ND	Low Power Dual Op Amp	8-Dip	.50	.40	.30
LM293ADT	497-4264-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.99	.80	.60
LM293ADT	497-4264-2-ND	Low Power Dual Voltage Comparator	8-SOIC	785.00/2,500		
LM293DT	497-1566-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.55	.44	.33
LM293DT	497-1566-2-ND	Low Power Dual Voltage Comparator	8-SOIC	412.50/2,500		
LM293N	497-1567-5-ND	Low Power Dual Voltage Comparator	8-Dip	.45	.36	.27
LM293ST	497-4265-1-ND	Low Power Dual Volt. Comparator	8-Mini SOIC	.72	.58	.44
LM293ST	497-4265-2-ND	Low Power Dual Volt. Comparator	8-Mini SOIC	912.00/4,000		
LM301AN	497-1568-5-ND	Single Op Amp	8-Dip	.94	.82	.63
LM311DT	497-1569-1-ND	Voltage Comparator	8-SOIC	.55	.43	.31
LM311DT	497-1569-2-ND	Voltage Comparator	8-SOIC	362.50/2,500		
LM311N	497-1570-5-ND	Voltage Comparator	8-Dip	.55	.43	.26
LM319DT	497-1576-1-ND	High Speed Dual Comparator	14-SOIC	.90	.72	.54
LM319DT	497-1576-2-ND	High Speed Dual Comparator	14-SOIC	712.50/2,500		
LM319N	497-1577-5-ND	High Speed Dual Comparator	14-Dip	1.04	.83	.63
LM324ADT	497-1578-1-ND	Low Power Quad Op Amp	14-SOIC	.55	.43	.26
LM324ADT	497-1578-2-ND	Low Power Quad Op Amp	14-SOIC	362.50/2,500		
LM324AN	497-1579-5-ND	Low Power Quad Op Amp	14-Dip	.55	.34	.26
LM324DT	497-1580-1-ND	Low Power Quad Op Amp	14-SOIC	.47	.36	.26
LM324DT	497-1580-2-ND	Low Power Quad Op Amp	14-SOIC	305.00/2,500		
LM324N	497-1581-5-ND	Low Power Quad Op Amp	14-Dip	.55	.43	.26
LM334Z	497-1582-ND	3-Terminal Adjustable Current Source	TO-92	1.24	1.08	.83
LM339ADT	497-1586-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.50	.40	.30
LM339ADT	497-1586-2-ND	Low Power Quad Voltage Comparator	14-SOIC	375.00/2,500		
LM339AN	497-1587-5-ND	Low Power Quad Voltage Comparator	14-Dip	.55	.44	.33
LM339DT	497-1588-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.41	.32	.23
LM339DT	497-1588-2-ND	Low Power Quad Voltage Comparator	14-SOIC	267.50/2,500		
LM339N	497-1589-5-ND	Low Power Quad Voltage Comparator	14-Dip	.55	.43	.26
LM339PT	497-4048-1-ND	Low Power Quad Volt. Comparator	14-TSSOP	.50	.40	.30
LM339PT	497-4048-2-ND	Low Power Quad Volt. Comparator	14-TSSOP	375.00/2,500		
LM346N	497-2980-5-ND	Programmable Quad Bipolar Op Amp	16-Dip	1.58	1.37	1.05
LM348DT	497-4049-1-ND	Four UA741 Quad Bipolar Op Amp	14-SOIC	.90	.72	.54
LM348DT	497-4049-2-ND	Four UA741 Quad Bipolar Op Amp	14-SOIC	712.50/2,500		
LM348N	497-2981-5-ND	Four UA741 Quad Bipolar Op Amp	14-Dip	1.08	.87	.65

** RoHS Compliant*

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
LM358ADT	497-1590-1-ND	Low Power Dual Op Amp	8-SOIC	.48	.38	.29
LM358ADT	497-1590-2-ND	Low Power Dual Op Amp	8-SOIC	357.50/2,500		
LM358APT	497-5367-1-ND	Low Power Dual Op Amp*	8-TSSOP	.45	.36	.27
LM358APT	497-5367-2-ND	Low Power Dual Op Amp*	8-TSSOP	540.00/4,000		
LM358AN	497-2983-5-ND	Low Power Dual Op Amp	8-Dip	.48	.38	.29
LM358DT	497-1591-1-ND	Low Power Dual Op Amp	8-SOIC	.44	.34	.25
LM358DT	497-1591-2-ND	Low Power Dual Op Amp	8-SOIC	290.00/2,500		
LM358N	497-1592-5-ND	Low Power Dual Op Amp	8-Dip	.55	.43	.26
LM393ADT	497-4267-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.48	.38	.29
LM393ADT	497-4267-2-ND	Low Power Dual Voltage Comparator	8-SOIC	357.50/2,500		
LM393DT	497-1593-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.44	.34	.25
LM393DT	497-1593-2-ND	Low Power Dual Voltage Comparator	8-SOIC	290.00/2,500		
LM393N	497-1594-5-ND	Low Power Dual Voltage Comparator	8-Dip	.55	.43	.26
LM833DT	497-1597-1-ND	Low Noise Dual Op Amp	8-SOIC	.68	.54	.41
LM833DT	497-1597-2-ND	Low Noise Dual Op Amp	8-SOIC	535.00/2,500		
LM833N	497-1598-5-ND	Low Noise Dual Op Amp	8-Dip	.83	.67	.50
LM2901DT	497-1555-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.55	.43	.31
LM2901DT	497-1555-2-ND	Low Power Quad Voltage Comparator	14-SOIC	362.50/2,500		
LM2901N	497-1556-5-ND	Low Power Quad Voltage Comparator	14-Dip	.55	.43	.26
LM2902DT	497-1557-1-ND	Low Power Quad Op Amp	14-SOIC	.55	.43	.31
LM2902DT	497-1557-2-ND	Low Power Quad Op Amp	14-SOIC	362.50/2,500		
LM2902N	497-1558-5-ND	Low Power Quad Op Amp	14-Dip	.55	.43	.26
LM2902PT	497-4045-1-ND	Low Power Quad Op Amp	14-TSSOP	.60	.48	.36
LM2902PT	497-4045-2-ND	Low Power Quad Op Amp	14-TSSOP	450.00/2,500		
LM2903DT	497-1559-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.44	.34	.25
LM2903DT	497-1559-2-ND	Low Power Dual Voltage Comparator	8-SOIC	285.00/2,500		
LM2903HDT	497-4260-1-ND	Low Power Dual Voltage Comparator	8-SOIC	1.13	.98	.75
LM2903HDT	497-4260-2-ND	Low Power Dual Voltage Comparator	8-SOIC	997.50/2,500		
LM2903N	497-1560-5-ND	Low Power Dual Voltage Comparator	8-Dip	.55	.43	.26
LM2904DT	497-1561-1-ND	Low Power Dual Op Amp	8-SOIC	.55	.43	.31
LM2904DT	497-1561-2-ND	Low Power Dual Op Amp	8-SOIC	362.50/2,500		
LM2904N	497-1562-5-ND	Low Power Dual Op Amp	8-Dip	.55	.43	.26
LM2904PT	497-4046-1-ND	Low Power Dual Op Amp	8-TSSOP	.43	.34	.26
LM2904PT	497-4046-2-ND	Low Power Dual Op Amp	8-TSSOP	580.00/4,000		
LM2904WHDT	497-4261-1-ND	Low Power Dual Op Amp	8-SOIC	1.35	1.17	.90
LM2904WHDT	497-4261-2-ND	Low Power Dual Op Amp	8-SOIC	1197.50/2,500		
LMV321ILT	497-4941-1-ND	Low Power In/Out R/R Op Amp	SOT-23-5	.81	.65	.49
LMV321ILT	497-4941-2-ND	Low Power In/Out R/R Op Amp	SOT-23-5	771.00/3,000		
LMV321RILT	497-4942-1-ND	Low Power In/Out R/R Op Amp	SOT-23-5	.81	.65	.49
LMV321RILT	497-4942-2-ND	Low Power In/Out R/R Op Amp	SOT-23-5	771.00/3,000		
LMV324IDT	497-4943-1-ND	LP Quad In/Out R/R Op Amp	14-SOIC	.99	.80	.60
LMV324IDT	497-4943-2-ND	LP Quad In/Out R/R Op Amp	14-SOIC	785.00/2,500		
LMV324IPT	497-4944-1-ND	LP Quad In/Out R/R Op Amp	14-TSSOP	.99	.80	.60
LMV324IPT	497-4944-2-ND	LP Quad In/Out R/R Op Amp	14-TSSOP	785.00/2,500		
LMV358IDT	497-4945-1-ND	LP Dual In/Out R/R Op Amp	8-SOIC	.95	.76	.57
LMV358IDT	497-4945-2-ND	LP Dual In/Out R/R Op Amp	8-SOIC	712.50/2,500		
LMV358IPT	497-4946-1-ND	LP Dual In/Out R/R Op Amp	8-TSSOP	.98	.85	.65
LMV358IPT	497-4946-2-ND	LP Dual In/Out R/R Op Amp	8-TSSOP	1140.00/4,000		
MC1458DT	497-1948-1-ND	High Performance Dual Op Amp	8-SOIC	.70	.56	.42
MC1458DT	497-1948-2-ND	High Performance Dual Op Amp	8-SOIC	525.00/2,500		
MC1458IN	497-1949-5-ND	High Performance Dual Op Amp	8-Dip	.72	.58	.44
MC1488D1013TR	497-1950-1-ND	RS-232C Quad Line Driver	14-SOIC	.70	.56	.42
MC1489D1013TR	497-1951-1-ND	Quad Line Receiver	14-SOIC	.70	.56	.42
MC1489D1013TR	497-1951-2-ND	Quad Line Receiver	14-SOIC	525.00/2,500		
MC3303DT	497-4050-1-ND	Low Power Quad Bipolar Op Amp	14-SOIC	1.01	.88	.68
MC3303DT	497-4050-2-ND	Low Power Quad Bipolar Op Amp	14-SOIC	897.50/2,500		
MC3403D	497-1959-5-ND	Low Power Quad Bipolar Op Amp	14-SOIC	.98	.85	.65
MC3403DT	497-1959-1-ND	Low Power Quad Bipolar Op Amp	14-SOIC	.86	.69	.52
MC3403DT	497-1959-2-ND	Low Power Quad Bipolar Op Amp	14-SOIC	677.50/2,500		
MC4558CDT	497-4051-1-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	.60	.48	.36
MC4558CDT	497-4051-2-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	450.00/2,500		
MC4558CN	497-1960-5-ND	Wide Bandwidth Dual Bipolar Op Amp	8-Dip	.65	.52	.39
MC4558IDT	497-1961-1-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	.99	.80	.60
MC4558IDT	497-1961-2-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	783.75/2,500		
MC33078DT	497-1952-1-ND	Low Noise Dual Op Amp	8-SOIC	.99	.80	.60
MC33078DT	497-1952-2-ND	Low Noise Dual Op Amp	8-SOIC	783.75/2,500		
MC33078N	497-1953-5-ND	Low Noise Dual Op Amp	8-Dip	1.04	.83	.58
MC33079DT	497-1954-1-ND	Low Noise Quad Op Amp	14-SOIC	1.01	.88	.68
MC33079DT	497-1954-2-ND	Low Noise Quad Op Amp	14-SOIC	897.50/2,500		
MC33171D	497-1956-5-ND	Low Power Single Bipolar Op Amp	8-SOIC	1.09	.95	.73
MC33171DT	497-1956-1-ND	Low Power Single Bipolar Op Amp	8-SOIC	1.09	.95	.73
MC33171DT	497-1956-2-ND	Low Power Single Bipolar Op Amp	8-SOIC	964.25/2,500		
MC33172DT	497-1957-1-ND	Low Power Dual Bipolar Op Amp	8-SOIC	.98	.85	.65
MC33172DT	497-1957-2-ND	Low Power Dual Bipolar Op Amp	8-SOIC	865.00/2,500		
MC33174DT	497-1958-1-ND	Low Power Quad Bipolar Op Amp	14-SOIC	.98	.85	.65
NE555D	497-1962-5-ND	General Purpose Single Bipolar Timer	8-SOIC	.51	.39	.29
NE555DT	497-1962-1-ND	General Purpose Single Bipolar Timer	8-SOIC	.49	.38	.23
NE555DT	497-1962-2-ND	General Purpose Single Bipolar Timer	8-SOIC	320.00/2,500		
NE555N	497-1963-5-ND	General Purpose Single Bipolar Timer	8-Dip	.55	.43	.26
NE556DT	497-1964-1-ND	General Purpose Dual Bipolar Timer	14-SOIC	.55	.44	.33
NE556DT	497-1964-2-ND	General Purpose Dual Bipolar Timer	14-SOIC	412.50/2,500		
NE556N	497-1965-5-ND	General Purpose Dual Bipolar Timer	14-Dip	.55	.44	.33
OP07CN	497-2991-5-ND	Bipolar Op Amp	8-Dip	1.43	1.24	.95
SA555DT	497-2035-1-ND	General Purpose Single Bipolar Timer	8-SOIC	.86	.69	.52
SA555DT	497-2035-2-ND	General Purpose Single Bipolar Timer	8-SOIC	677.50/2,500		
SA555N	497-2036-5-ND	General Purpose Single Bipolar Timer	8-Dip	.77	.62	.46
SA556DT	497-2037-1-ND	General Purpose Dual Bipolar Timer	14-SOIC	.86	.69	.52
SA556DT	497-2037-2-ND	General Purpose Dual Bipolar Timer	14-SOIC	677.50/2,500		
SE555DT	497-6022-1-ND	General Purpose Single Bipolar Timer*	8-SOIC	1.09	.95	.73
SE555DT	497-6022-2-ND	General Purpose Single Bipolar Timer*	8-SOIC	965.00/2,500		
TL061ACDT	497-2191-1-ND	Low Power, J-Fet Single Op Amp	8-SOIC	1.31	1.14	.88
TL061ACDT	497-2191-2-ND	Low Power, J-Fet Single Op Amp	8-SOIC	1163.75/2,500		
TL061CDT	497-2192-1-ND	Low Power, J-Fet Single Op Amp	8-SOIC	.68	.54	.41
TL061CDT	497-2192-2-ND	Low Power, J-Fet Single Op Amp	8-SOIC	535.00/2,500		
TL061IDT	497-4054-1-ND	Low Power, J-Fet Single Op Amp	8-SOIC	.72	.58	.44
TL061IDT	497-4054-2-ND	Low Power, J-Fet Single Op Amp	8-SOIC	570.00/2,500		
TL062ACDT	497-2193-1-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	.99	.80	.60
TL062ACDT	497-2193-2-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	785.00/2,500		
TL062CDT	497-2194-1-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	.65	.52	.39
TL062CDT	497-2194-2-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	455.00/2,500		
TL062CN	497-2195-5-ND	Low Power, J-Fet Dual Op Amp	8-Dip	.70	.56	.42
TL062ID	497-3029-5-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	.70	.57	.43
TL064CDT	497-2196-1-ND	Low Power, J-Fet Quad Op Amp	14-SOIC	.77	.62	.43
TL064CDT	497-2196-2-ND	Low Power, J-Fet Quad Op Amp	14-SOIC	605.00/2,500		
TL064CN	497-2197-5-ND	Low Power, J-Fet Quad Op Amp	14-Dip	.77	.62	.46
TL064IDT	497-3030-1-ND	Low Power, J-Fet Quad Op Amp	14-SOIC	1.35	1.17	.90
TL064IDT	497-3030-2-ND	Low Power, J-Fet Quad Op Amp	14-SOIC	1197.00/2,500		
TL064IN	497-2198-5-ND	Low Power, J-Fet Quad Op Amp	14-Dip	1.00	.80	.60
TL071CDT	497-4055-1-ND	Low Noise, J-Fet Single Op Amp	8-SOIC	.65	.52	.39
TL071CDT	497-4055-2-ND	Low Noise, J-Fet Single Op Amp	8-SOIC	487.50/2,500		
TL071CN	497-3031-5-ND	Low Noise, J-Fet Single Op Amp	8-Dip	.90	.72	.54
TL071IDT	497-2199-1-ND	Low Noise, J-Fet Single Op Amp	8-SOIC	1.09	.88	.66
TL071IDT	497-2199-2-ND	Low Noise, J-Fet Single Op Amp	8-SOIC	862.13/2,500		
TL072CDT	497-2200-1-ND	Low Noise, J-Fet Dual Op Amp	8-SOIC	.65	.52	.39
TL072CDT	497-2200-2-ND	Low Noise, J-Fet Dual Op Amp	8-SOIC	487.50/2,500		
TL072CN	497-2201-5-ND	Low Noise, J-Fet Dual Op Amp	8-Dip	.65	.52	.39
TL072IDT	497-2202-1-ND	Low Noise, J-Fet Dual Op Amp	8-SOIC	.70	.56	.42
TL072IDT	497-2202-2-ND	Low Noise, J-Fet Dual Op Amp	8-SOIC	525.00/2,500		
TL074ACDT	497-2203-1-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	1.20	1.04	.80
TL074ACDT	497-2203-2-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	1065.00/2,500		
TL074CDT	497-2204-1-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	.77	.62	.43
TL074CDT	497-2204-2-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	605.00/2,500		
TL074CN	497-2205-5-ND	Low Noise, J-Fet Quad Op Amp	14-Dip	.77	.62	.51
TL074IDT	497-4056-1-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	.90	.72	.54
TL074IDT	497-4056-2-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	712.50/2,500		
TL074IN	497-2206-5-ND	Low Noise, J-Fet Quad Op Amp	14-Dip	.99	.80	.55
TL081ACDT	497-2207-1-ND	J-Fet Single Op Amp	8-SOIC	1.13	.82	.63
TL081ACDT	497-2207-2-ND	J-Fet Single Op Amp	8-SOIC	890.00/2,500		
TL081CDT	497-2208-1-ND	J-Fet Single Op Amp	8-SOIC	.90	.72	.54
TL081CDT	497-2208-2-ND	J-Fet Single Op Amp	8-SOIC	712.50/2,500		
TL081CN	497-2209-5-ND	J-Fet Single Op Amp	8-Dip	.70	.56	.42
TL081IDT	497-2210-1-ND	J-Fet Single Op Amp	8-SOIC	.77	.62	.51
TL081IDT	497-2210-2-ND	J-Fet Single Op Amp	8-SOIC	605.00/2,500		
TL082ACDT	497-2211-1-ND	J-Fet Dual Op Amp	8-SOIC	.86	.69	.52
TL082ACDT	497-2211-2-ND	J-Fet Dual Op Amp	8-SOIC	677.50/2,500		
TL082AIPT	497-5195-1-ND	J-Fet Dual Op Amp*	8-TSSOP	1.50	1.30	1.00
TL082AIPT	497-5195-2-ND	J-Fet Dual Op Amp*	8-TSSOP	2128.00/4,000		
TL082CDT	497-2212-1-ND	J-Fet Dual Op Amp	8-SOIC	.65	.52	.39
TL082CDT	497-2212-2-ND	J-Fet Dual Op Amp	8-SOIC	487.50/2,500		
TL082CN	497-2213-5-ND	J-Fet Dual Op Amp	8-Dip	.65	.52	.39
TL082CPT	497-4057-1-ND	J-Fet Dual Op Amp	8-TSSOP	.81	.65	.49
TL082CPT	497-4057-2-ND	J-Fet Dual Op Amp	8-TSSOP	1028.00/4,000		
TL082IN	497-3032-5-ND	J-Fet Dual Op Amp	8-Dip	.86	.70	.52
TL082IDT	497-2214-1-ND	J-Fet Dual Op Amp	8-SOIC	.95	.62	.48
TL082IDT	497-2214-2-ND	J-Fet Dual Op Amp	8-SOIC	712.50/2,500		
TL084ACDT	497-2215-1-ND	J-Fet Quad Op Amp	14-SOIC	1.01	.88	.68
TL084ACDT	497-2215-2-ND	J-Fet Quad Op Amp	14-SOIC	897.50/2,500		
TL084ACN	497-2216-5-ND	J-Fet Quad Op Amp	14-Dip	1.01	.88	.68
TL084AIDT	497-4752-1-ND	J-Fet Quad Op Amp	14-SOIC	1.16	1.01	.78
TL084AIDT	497-4752-2-ND	J-Fet Quad Op Amp	14-SOIC	1030.00/2,500		
TL084CD	497-3033-5-ND	J-Fet Quad Op Amp	14-SOIC	.81	.65	.49
TL084CDT	497-2217-1-ND	J-Fet Quad Op Amp	14-SOIC	.77	.62	.43
TL084CDT	497-2217-2-ND	J-Fet Quad Op Amp	14-SOIC	573.75/2,500		
TL084CN	497-2218-5-ND	J-Fet Quad Op Amp	14-Dip	.77	.62	.51
TL084CPT	497-2219-1-ND	J-Fet Quad Op Amp	14-TSSOP	.99	.80	.60
TL084CPT	497-2219-2-ND	J-Fet Quad Op Amp	14-TSSOP	785.00/2,500		
TL084IDT	497-2220-1-ND	J-Fet Quad Op Amp	14-SOIC	1.05	.69	.53
TL084IDT	497-2220-2-ND	J-Fet Quad Op Amp	14-SOIC	787.50/2,500		
TL084IN	497-2221-5-ND	J-Fet Quad Op Amp	14-Dip	.99	.80	.60
TL431ACDT	497-3034-1-ND	Programmable Voltage Reference	8-SOIC	.68	.54	.41
TL431ACZ	497-3035-5-ND	Programmable Voltage Reference	TO-92	.70	.56	.42
TL431AIDT	497-2225-1-ND	Programmable Voltage Reference	8-SOIC	.48	.38	.29
TL431AIDT	497-2225-2-ND	Programmable Voltage Reference	8-SOIC	357.50/2,500		
TL431AIZT	497-2226-1-ND	Programmable Voltage Reference	TO-92	.48	.38	.29
TL431AIZT	497-2226-2-ND	Programmable Voltage Reference	TO-92	304.00/2,000		
TL431CDT	497-3036-1-ND	Programmable Voltage Reference	8-SOIC	.70	.56	.42
TL431IDT	497-2227-1-ND	Programmable Voltage Reference	8-SOIC	.55	.34	.26
TL431IDT	497-2227-2-ND	Programmable Voltage Reference	8-SOIC	362.50/2,500		
TL431IZT	497-2228-1-ND	Programmable Voltage Reference	TO-92	.60	.48	.36
TL431IZT	497-2228-2-ND	Programmable Voltage Reference	TO-92	384.00/2,000		
TL1431ACDT	497-2222-1-ND	Programmable Voltage Reference	8-SOIC	.86	.69	.52
TL1431ACDT	497-2222-2-ND	Programmable Voltage Reference	8-SOIC	677.50/2,500		
TL1431ACZT	497-2223-1-ND	Programmable Voltage Reference	TO-92	.86	.69	.52
TL1431ACZT	497-2223-2-ND	Programmable Voltage Reference	TO-92	542.00/2,000		
TL1431AIDT	497-2224-1-ND	Programmable Voltage Reference	8-SOIC	.90	.72	.54
TL1431AIDT	497-2224-2-ND	Programmable Voltage Reference	8-SOIC	712.50/2,500		
TL1431IDT	497-4058-1-ND	Programmable Voltage Reference	8-SOIC	.86	.69	.52
TL1431IDT	497-4058-2-ND	Programmable Voltage Reference	8-SOIC	677.50/2,500		
TS27L2AID	497-2250-5-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1.89	1.58	1.33
TS27L2IDT	497-2251-1-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1.20	1.04	.80
TS27L2IDT	497-2251-2-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1064.00/2,500		
TS27L4AID	497-2252-5-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1.95	1.63	1.37
TS27L4AIN	497-2253-5-ND	Low Power, CMOS Quad Op Amp	14-Dip	1.95	1.63	1.37
TS27L4CN	497-2254-5-ND	Low Power, CMOS Quad Op Amp	14-Dip	1.01	.88	.68
TS27L4IDT	497-2255-1-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1.31	1.14	.88
TS27L4IDT	497-2255-2-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1165.00/2,500		
TS27L4IN	497-2256-5-ND	Low Power, CMOS Quad Op Amp	14-Dip	1.43	1.24	.95
TS27M2AIDT	497-2257-1-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1.35	1.17	.90
TS27M2AIDT	497-2257-2-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1197.00/2,500		
TS27M2AIN	497-2258-5-ND	Low Power, CMOS Dual Op Amp	8-Dip	1.69	1.47	1.13
TS27M2BIDT	497-4445-1-ND	Low Power, CMOS Dual Op Amp	8-SOIC	2.55	2.13	1.79
TS27M2BIDT	497-4445-2-ND	Low Power, CMOS Dual Op Amp	8-SOIC	2762.50/2,500		
TS27M2IDT	497-2259-1-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1.31	1.14	.88
TS27M2IDT	497-2259-2-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1163.75/2,500		
TS27M2IN	497-2260-5-ND	Low Power, CMOS Dual Op Amp	8-Dip	1.35	1.17	.90
TS27M4AID	497-2261-5-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1.56	1.30	1.10
TS27M4IDT	497-2262-1-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1.50	1.25	1.05
TS27M4IDT	497-2262-2-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1625.00/2,500		
TS27M4IN	497-2263-5-ND	Low Power, CMOS Quad Op Amp	14-Dip	1.73	1.50	1.15
TS271ACDT	497-2242-1-ND	CMOS Prog. LP Single Op Amp	8-SOIC	1.24	1.08	.83
TS271ACDT	497-2242-2-ND	CMOS Prog. LP Single Op Amp	8-SOIC	1097.25/2,500		
TS271ACN	497-2243-5-ND	CMOS Prog. LP Single Op Amp	8-Dip	1.24	1.08	.83
TS271IDT	497-2244-1-ND	CMOS Prog. LP Single Op Amp	8-SOIC	.94	.82	.63
TS271IDT	497-2244-2-ND	CMOS Prog. LP Single Op Amp	8-SOIC	831.25/2,500		
TS274IN	497-5196-ND	CMOS Quad Op Amp*	14-Dip	1.65	1.38	1.16
TS272AID	497-2245-5-ND	CMOS Dual Op Amp	8-SOIC	1.35	1.17	.90
TS272AIN	497-2246-5-ND	CMOS Dual Op Amp	8-Dip	1.50	1.30	1.00
TS272CD	497-3037-5-ND	CMOS Dual Op Amp	8-SOIC	1.35	1.17	.90
TS272IDT	497-2247-1-ND	CMOS Dual Op Amp	8-SOIC	1.73	1.50	1.15

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TS274CDT	497-4060-1-ND	CMOS Quad Op Amp	14-SOIC	1.05	.91	.70
TS274CDT	497-4060-2-ND	CMOS Quad Op Amp	14-SOIC	930.00/2,500		
TS274IDT	497-2249-1-ND	CMOS Quad Op Amp	14-SOIC	1.73	1.50	1.15
TS274IDT	497-2249-2-ND	CMOS Quad Op Amp	14-SOIC	1530.00/2,500		
TS321ILT	497-4061-1-ND	Low Power Single Op Amp	SOT-23-5	.70	.56	.42
TS321ILT	497-4061-2-ND	Low Power Single Op Amp	SOT-23-5	630.00/3,000		
TS339CPT	497-4062-1-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	.72	.58	.44
TS339CPT	497-4062-2-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	570.00/2,500		
TS339IDT	497-2264-1-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	.98	.85	.65
TS339IDT	497-2264-2-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	865.00/2,500		
TS339IN	497-2265-5-ND	Micropower Quad CMOS Voltage Comparator	14-Dip	1.09	.95	.73
TS339IPT	497-2266-1-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	1.35	1.17	.90
TS339IPT	497-2266-2-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	1197.50/2,500		
TS372IDT	497-2271-1-ND	LP, Dual CMOS Voltage Comparator	8-SOIC	1.31	1.14	.88
TS372IDT	497-2271-2-ND	LP, Dual CMOS Voltage Comparator	8-SOIC	1163.75/2,500		
TS372IN	497-2272-5-ND	LP, Dual CMOS Voltage Comparator	8-Dip	1.21	1.05	.81
TS374IDT	497-2273-1-ND	LP, Quad CMOS Voltage Comparator	14-SOIC	.98	.85	.65
TS374IDT	497-2273-2-ND	LP, Quad CMOS Voltage Comparator	14-SOIC	865.00/2,500		
TS374IN	497-2274-5-ND	LP, Quad CMOS Voltage Comparator	14-Dip	1.91	1.66	1.28
TS391ILT	497-2275-1-ND	LP, Single Voltage Comparator	SOT-23-5L	.86	.69	.52
TS391ILT	497-2275-2-ND	LP, Single Voltage Comparator	SOT-23-5L	813.00/3,000		
TS393IDT	497-2276-1-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	.99	.80	.60
TS393IDT	497-2276-2-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	785.00/2,500		
TS393IN	497-2277-5-ND	Micropower Dual CMOS Voltage Comparator	8-Dip	1.39	1.21	.93
TS419IDT	497-4065-1-ND	360mW Mono Amp	8-SOIC	1.46	1.27	.98
TS419IDT	497-4065-2-ND	360mW Mono Amp	8-SOIC	1296.75/2,500		
TS419IST	497-4448-1-ND	360mW Mono Amp	8-Mini SOIC	1.46	1.27	.98
TS419IST	497-4448-2-ND	360mW Mono Amp	8-Mini SOIC	2076.00/4,000		
TS421IDT	497-4066-1-ND	360mW Mono Amp	8-SOIC	1.46	1.27	.98
TS421IDT	497-4066-2-ND	360mW Mono Amp	8-SOIC	1297.50/2,500		
TS421IST	497-4449-1-ND	360mW Mono Amp	8-Mini SOIC	1.46	1.27	.98
TS421IST	497-4449-2-ND	360mW Mono Amp	8-Mini SOIC	2076.00/4,000		
TS431AILT	497-2279-1-ND	Low Voltage, Adj. Shunt Reference	SOT-23-5	.70	.56	.42
TS431AILT	497-2279-2-ND	Low Voltage, Adj. Shunt Reference	SOT-23-5	630.00/3,000		
TS432AILT	497-2280-1-ND	1.24V, Adj. Shunt Voltage Reference	SOT-23	1.05	.91	.70
TS432AILT	497-2280-2-ND	1.24V, Adj. Shunt Voltage Reference	SOT-23	1116.00/3,000		
TS461CD	497-3039-5-ND	Output Rail-to-Rail Op Amp	8-SOIC	.72	.58	.44
TS461CDT	497-2281-1-ND	Output Rail-to-Rail Op Amp	8-SOIC	.72	.58	.44
TS461CDT	497-2281-2-ND	Output Rail-to-Rail Op Amp	8-SOIC	570.00/2,500		
TS461CLT	497-2282-1-ND	Output Rail-to-Rail Op Amp	SOT-23-5	1.08	.87	.65
TS461CLT	497-2282-2-ND	Output Rail-to-Rail Op Amp	SOT-23-5	1026.00/3,000		
TS462CD	497-5431-5-ND	Output Rail-to-Rail Op Amp*	8-SOIC	.95	.76	.57
TS462CDT	497-2283-1-ND	Output Rail-to-Rail Op Amp	8-SOIC	.95	.76	.57
TS462CDT	497-2283-2-ND	Output Rail-to-Rail Op Amp	8-SOIC	748.13/2,500		
TS462CPT	497-4067-1-ND	Output Rail-to-Rail Op Amp	8-TSSOP	.94	.82	.63
TS462CPT	497-4067-2-ND	Output Rail-to-Rail Op Amp	8-TSSOP	1332.00/4,000		
TS464CD	497-3040-5-ND	Output Rail-to-Rail Op Amp	14-SOIC	1.05	.91	.70
TS464CDT	497-2285-1-ND	Output Rail-to-Rail Op Amp	14-SOIC	1.05	.91	.70
TS464CDT	497-2285-2-ND	Output Rail-to-Rail Op Amp	14-SOIC	931.00/2,500		
TS464CPT	497-5432-1-ND	Output Rail-to-Rail Op Amp*	14-TSSOP	1.05	.91	.70
TS472EIJT	497-4985-1-ND	LN Microphone Preamp	FlipChip	1.54	1.34	1.03
TS472EIJT	497-4985-2-ND	LN Microphone Preamp	FlipChip	2615.00/5,000		
TS472IQT	497-5826-1-ND	Very Low Noise Microphone Preamplifier with 2.0V Bias Output*	24-QFN	1.74	1.45	1.22
TS472IQT	497-5826-2-ND	Very Low Noise Microphone Preamplifier with 2.0V Bias Output*	24-QFN	3016.00/4,000		
TS482IDT	497-2287-1-ND	100mW, Stereo Headphone Amp	8-SOIC	1.08	.87	.65
TS482IDT	497-2287-2-ND	100mW, Stereo Headphone Amp	8-SOIC	855.00/2,500		
TS482IQT	497-2288-1-ND	100mW, Stereo Headphone Amp	8-DFN	1.05	.91	.70
TS482IQT	497-2288-2-ND	100mW, Stereo Headphone Amp	8-DFN	1117.20/3,000		
TS486-1IST	497-4450-1-ND	100mW, Stereo Headphone Amp	8-Mini SOIC	1.43	1.24	.95
TS486-1IST	497-4450-2-ND	100mW, Stereo Headphone Amp	8-Mini SOIC	2020.00/4,000		
TS486ID	497-3041-5-ND	100mW, Stereo Headphone Amp	8-SOIC	1.43	1.24	.95
TS486IDT	497-2289-1-ND	100mW, Stereo Headphone Amp	8-SOIC	1.43	1.24	.95
TS486IDT	497-2289-2-ND	100mW, Stereo Headphone Amp	8-SOIC	1262.50/2,500		
TS487ID	497-2291-5-ND	100mW, Stereo Headphone Amp	8-SOIC	1.69	1.47	1.13
TS489IQT	497-5991-1-ND	120mW, Stereo Headphone Amp*	8-DFN	1.09	.95	.73
TS489IQT	497-5991-2-ND	120mW, Stereo Headphone Amp*	8-DFN	1158.00/3,000		
TS489IST	497-6032-1-ND	120mW, Stereo Headphone Amp*	8-MSOP	1.09	.95	.73
TS489IST	497-6032-2-ND	120mW, Stereo Headphone Amp*	8-MSOP	1544.00/4,000		
TS507IDT	497-5997-1-ND	High Precision R/R Op Amp*	8-SOIC	1.98	1.65	1.39
TS507IDT	497-5997-2-ND	High Precision R/R Op Amp*	8-SOIC	2145.00/2,500		
TS507CDT	497-5996-1-ND	High Precision R/R Op Amp*	8-SOIC	1.80	1.50	1.26
TS507CDT	497-5996-2-ND	High Precision R/R Op Amp*	8-SOIC	1950.00/2,500		
TS512AIDT	497-2295-1-ND	Dual Op Amp	8-SOIC	1.50	1.30	1.00
TS512AIDT	497-2295-2-ND	Dual Op Amp	8-SOIC	1330.00/2,500		
TS512IDT	497-2296-1-ND	Dual Op Amp	8-SOIC	1.16	1.01	.78
TS512IDT	497-2296-2-ND	Dual Op Amp	8-SOIC	1030.00/2,500		
TS514AIDT	497-4453-1-ND	Precision Quad Op Amp	14-SOIC	1.77	1.48	1.24
TS514AIDT	497-4453-2-ND	Precision Quad Op Amp	14-SOIC	1917.50/2,500		
TS522ID	497-3042-5-ND	Low Noise, Dual Op Amp	8-SOIC	1.28	1.11	.85
TS522IDT	497-2297-1-ND	Low Noise, Dual Op Amp	8-SOIC	1.28	1.11	.85
TS522IDT	497-2297-2-ND	Low Noise, Dual Op Amp	8-SOIC	1130.00/2,500		
TS555CDT	497-3043-1-ND	Low Power, Single CMOS Timer	8-SOIC	.90	.72	.54
TS555CDT	497-3043-2-ND	Low Power, Single CMOS Timer	8-SOIC	712.50/2,500		
TS555CN	497-3044-5-ND	Low Power, Single CMOS Timer	8-Dip	.76	.61	.46
TS555ID	497-3045-5-ND	Low Power, Single CMOS Timer	8-SOIC	.70	.57	.43
TS555IDT	497-2298-1-ND	Low Power, Single CMOS Timer	8-SOIC	.65	.52	.39
TS555IDT	497-2298-2-ND	Low Power, Single CMOS Timer	8-SOIC	487.50/2,500		
TS555IN	497-2299-5-ND	Low Power, Single CMOS Timer	8-Dip	.72	.58	.44
TS555IPT	497-4069-1-ND	Low Power, Single CMOS Timer	8-TSSOP	.90	.72	.54

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TS555IPT	497-4069-2-ND	Low Power, Single CMOS Timer	8-TSSOP	1140.00/4,000		
TS556IDT	497-2300-1-ND	Low Power, Dual CMOS Timer	14-SOIC	1.24	1.08	.83
TS556IDT	497-2300-2-ND	Low Power, Dual CMOS Timer	14-SOIC	1097.50/2,500		
TS556IN	497-2301-5-ND	Low Power, Dual CMOS Timer	14-Dip	1.08	.87	.65
TS613ID	497-5434-5-ND	Dual Wide Band Op Amp*	8-SOIC	4.86	4.23	3.15
TS613IDT	497-2302-1-ND	Dual Wide Band Op Amp	8-SOIC	5.13	4.47	3.33
TS613IDT	497-2302-2-ND	Dual Wide Band Op Amp	8-SOIC	6080.00/2,500		
TS616IDW	497-4454-5-ND	Dual Wide Band Op Amp	8-TSSOP	5.10	4.45	3.31
TS616IDWT	497-4455-1-ND	Dual Wide Band Op Amp	8-TSSOP	5.10	4.45	3.31
TS616IDWT	497-4455-2-ND	Dual Wide Band Op Amp	8-TSSOP	6047.50/2,500		
TS822ILT	497-2303-1-ND	2.5V, Micropower Shunt Voltage Ref.	SOT-23	1.04	.83	.63
TS822ILT	497-2303-2-ND	2.5V, Micropower Shunt Voltage Ref.	SOT-23	984.00/3,000		
TS824ILT-1.2	497-2305-1-ND	Micropower Shunt Voltage Reference	SOT-23	1.56	1.30	1.10
TS824ILT-1.2	497-2305-2-ND	Micropower Shunt Voltage Reference	SOT-23	2028.00/3,000		
TS831-3IZT	497-2306-1-ND	Micropower Voltage Supervisor	TO-92	.86	.69	.52
TS831-5IDT	497-4070-1-ND	Micropower Voltage Supervisor Reset Active Low	8-SOIC	.95	.76	.57
TS831-5IDT	497-4070-2-ND	Micropower Voltage Supervisor Reset Active Low	8-SOIC	747.50/2,500		
TS831-5IZT	497-2307-1-ND	Micropower Voltage Supervisor	TO-92	.95	.69	.53
TS831-5IZT	497-2307-2-ND	Micropower Voltage Supervisor	TO-92	651.00/2,000		
TS834-5IDT	497-4071-1-ND	Micropower Volt. Supervisor Reset Active Low or High Integrated Timer	8-SOIC	1.05	.91	.70
TS834-5IDT	497-4071-2-ND	Micropower Volt. Supervisor Reset Active Low or High Integrated Timer	8-SOIC	930.00/2,500		
TS861AILT	497-2308-1-ND	R/R, Micropower BiCMOS Comp.	SOT-23-5	1.31	1.14	.88
TS861AILT	497-2308-2-ND	R/R, Micropower BiCMOS Comp.	SOT-23-5	1398.00/3,000		
TS861AIN	497-2309-5-ND	R/R, Micropower BiCMOS Comp.	8-Dip	1.31	1.14	.88
TS861IDT	497-4072-1-ND	R/R, Micropower BiCMOS Comparator	8-SOIC	1.31	1.14	.88
TS861IDT	497-4072-2-ND	R/R, Micropower BiCMOS Comparator	8-SOIC	1163.75/2,500		
TS864AIDT	497-4073-1-ND	R/R, Micropower BiCMOS Comparator	14-SOIC	2.16	1.80	1.52
TS864AIDT	497-4073-2-ND	R/R, Micropower BiCMOS Comparator	14-SOIC	2340.00/2,500		
TS912AIDT	497-2310-1-ND	R/R, CMOS Dual Op Amp	8-SOIC	1.73	1.50	1.15
TS912AIDT	497-2310-2-ND	R/R, CMOS Dual Op Amp	8-SOIC	1530.00/2,500		
TS914AIDT	497-2311-1-ND	R/R, CMOS Quad Op Amp	14-SOIC	2.33	2.02	1.55
TS914AIDT	497-2311-2-ND	R/R, CMOS Quad Op Amp	14-SOIC	2015.00/2,500		
TS914ID	497-2312-5-ND	R/R, CMOS Quad Op Amp	14-SOIC	1.93	1.61	1.36
TS914IDT	497-6042-1-ND	R/R, CMOS Quad Op Amp*	14-SOIC	2.04	1.70	1.43
TS914IDT	497-6042-2-ND	R/R, CMOS Quad Op Amp*	14-SOIC	2210.00/2,500		
TS921IDT	497-4074-1-ND	R/R, High Output Current Single Op Amp	8-SOIC	1.54	1.34	1.03
TS921IDT	497-4074-2-ND	R/R, High Output Current Single Op Amp	8-SOIC	1362.50/2,500		
TS921IN	497-4075-5-ND	R/R, High Output Current Single Op Amp	8-Dip	1.54	1.34	1.03
TS922AIDT	497-6221-1-ND	R/R, High Output Current Dual Op Amp*	8-SOIC	1.77	1.48	1.24
TS922AIDT	497-6221-2-ND	R/R, High Output Current Dual Op Amp*	8-SOIC	1917.50/2,500		
TS922ID	497-3048-5-ND	R/R, High Output Current Dual Op Amp	8-SOIC	1.77	1.48	1.24
TS922IDT	497-6035-1-ND	R/R, High Output Current Dual Op Amp*	8-SOIC	1.77	1.48	1.24
TS922IDT	497-6035-2-ND	R/R, High Output Current Dual Op Amp*	8-SOIC	1917.50/2,500		
TS922IN	497-3049-5-ND	R/R, High Output Current Dual Op Amp	8-Dip	1.77	1.48	1.24
TS924AID	497-2314-5-ND	R/R, High Output Current Quad Op Amp	14-SOIC	2.79	2.33	1.96
TS925AIPT	497-4076-1-ND	R/R, High Output Current Quad Op Amp	16-TSSOP	2.97	2.48	2.08
TS925AIPT	497-4076-2-ND	R/R, High Output Current Quad Op Amp	16-TSSOP	3217.50/2,500		
TS925ID	497-3050-5-ND	R/R, High Output Current Quad Op Amp	16-SOIC	2.40	2.00	1.68
TS931ID	497-3051-5-ND	Output R/R Micropower Op Amp	8-SOIC	.95	.76	.57
TS931ILT	497-4077-1-ND	Output R/R Micropower Op Amp	SOT-23-5L	.95	.76	.57
TS931ILT	497-4077-2-ND	Output R/R Micropower Op Amp	SOT-23-5L	897.00/3,000		
TS932ID	497-3052-5-ND	Dual Out R/R Micropower Op Amp	8-SOIC	1.43	1.24	.95
TS934ID	497-3053-5-ND	Quad Out R/R Micropower Op Amp	14-SOIC	1.95	1.63	1.37
TS941ID	497-3054-5-ND	Output R/R Micropower Op Amp	8-SOIC	1.61	1.40	1.08
TS941ILT	497-4078-1-ND	Output R/R Micropower Op Amp	SOT-23-5L	1.61	1.40	1.08
TS941ILT	497-4078-2-ND	Output R/R Micropower Op Amp	SOT-23-5L	1716.00/3,000		
TS942AID	497-4456-5-ND	Output R/R Micropower Op Amp	8-SOIC	1.77	1.48	1.24
TS942AIDT	497-4457-1-ND	Output R/R Micropower Op Amp	8-SOIC	1.71	1.43	1.20
TS942AIDT	497-4457-2-ND	Output R/R Micropower Op Amp	8-SOIC	1852.50/2,500		
TS951ID	497-3055-5-ND	In/Out, R/R, Low Power Op Amp	8-SOIC	1.35	1.17	.90
TS951ILT	497-4079-1-ND	In/Out, R/R Low Power Op Amp	SOT-23-5L	1.09	.95	.73
TS951ILT	497-4079-2-ND	In/Out, R/R Low Power Op Amp	SOT-23-5L	1158.00/3,000		
TS952ID	497-3056-5-ND	In/Out, R/R, Low Power Op Amp	8-SOIC	1.16	1.01	.78
TS952IDT	497-2315-1-ND	In/Out, R/R, Low Power Op Amp	8-SOIC	1.16	1.01	.78
TS952IDT	497-2315-2-ND	In/Out, R/R, Low Power Op Amp	8-SOIC	1030.00/2,500		
TS952IYDT	497-4777-1-ND	In/Out, R/R, LP Op Amp	8-SOIC	1.43	1.24	.95
TS952IYDT	497-4777-2-ND	In/Out, R/R, LP Op Amp	8-SOIC	1262.50/2,500		
TS954ID	497-2316-5-ND	In/Out, R/R, Low Power Op Amp	14-SOIC	2.10	1.75	1.47
TS971ID	497-3057-5-ND	Output R/R Low Noise Op Amp	8-SOIC	.90	.72	.54
TS972ID	497-3058-5-ND	Output R/R Low Noise Op Amp	8-SOIC	1.24	1.08	.83
TS972IDT	497-2317-1-ND	Output R/R Low Noise Op Amp	8-SOIC	1.24	1.08	.83
TS972IDT	497-2317-2-ND	Output R/R Low Noise Op Amp	8-SOIC	1097.25/2,500		
TS974ID	497-3059-5-ND	Output R/R Low Noise Op Amp	14-SOIC	1.43	1.24	.95
TS974IDT	497-2318-1-ND	Output R/R Low Noise Op Amp	14-SOIC	1.43	1.24	.95
TS974IDT	497-2318-2-ND	Output R/R Low Noise Op Amp	14-SOIC	1262.50/2,500		
TS974IPT	497-2319-1-ND	Output R/R Low Noise Op Amp	14-TSSOP	1.13	.98	.75
TS974IPT	497-2319-2-ND	Output R/R Low Noise Op Amp	14-TSSOP	997.50/2,500		
TS1851AIDT	497-4530-1-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	1.68	1.40	1.18
TS1851AIDT	497-4530-2-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	1820.00/2,500		
TS1851AILT	497-4531-1-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	1.68	1.40	1.18
TS1851AILT	497-4531-2-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	2184.00/3,000		
TS1851ID	497-2231-5-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	1.65	1.38	1.16
TS1851IDT	497-2231-1-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	1.65	1.38	1.16
TS1851IDT	497-2231-2-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	1787.50/2,500		
TS1851ILT	497-5429-1-ND	1.8V, In/Out, R/R, LP Op Amp*	SOT-23-5	1.65	1.38	1.16
TS1851ILT	497-5429-2-ND	1.8V, In/Out, R/R, LP Op Amp*	SOT-23-5	2145.00/3,000		
TS1852AIDT	497-4533-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.28	1.90	1.60
TS1852AIDT	497-4533-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2470.00/2,500		

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TS1852AIST	497-4443-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.28	1.90	1.60
TS1852AIST	497-4443-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	3952.00/4,000		
TS1852ID	497-2232-5-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	1.92	1.60	1.35
TS1852IDT	497-2232-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	1.92	1.60	1.35
TS1852IDT	497-2232-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2080.00/2,500		
TS1854AIDT	497-4535-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2.70	2.25	1.89
TS1854AIDT	497-4535-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2925.00/2,500		
TS1854ID	497-2234-5-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2.70	2.25	1.89
TS1854IDT	497-2234-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2.70	2.25	1.89
TS1854IDT	497-2234-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2925.00/2,500		
TS1854IPT	497-5430-1-ND	1.8V, Quad, In/Out, Rail-to-Rail, Low Power Op Amp*	14-TSSOP	2.70	2.25	1.89
TS1854IPT	497-5430-2-ND	1.8V, Quad, In/Out, Rail-to-Rail, Low Power Op Amp*	14-TSSOP	2925.00/2,500		
TS1871AIDT	497-4537-1-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2.70	2.25	1.89
TS1871AIDT	497-4537-2-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2925.00/2,500		
TS1871AILT	497-4538-1-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	2.70	2.25	1.89
TS1871AILT	497-4538-2-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	3510.00/3,000		
TS1871ID	497-2236-5-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2.22	1.85	1.56
TS1871IDT	497-4539-1-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2.22	1.85	1.56
TS1871IDT	497-4539-2-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2405.00/2,500		
TS1871ILT	497-2237-1-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	2.22	1.85	1.56
TS1871ILT	497-2237-2-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	2886.00/3,000		
TS1872AIDT	497-4540-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.40	2.00	1.68
TS1872AIDT	497-4540-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2600.00/2,500		
TS1872AIST	497-4444-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.40	2.00	1.68
TS1872AIST	497-4444-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	4160.00/4,000		
TS1872ID	497-2238-5-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.22	1.85	1.56
TS1872IDT	497-2238-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2.37	1.98	1.66
TS1872IDT	497-2238-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-MSOP	2567.50/2,500		
TS1872IN	497-2239-5-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-Dip	2.37	1.98	1.66
TS1874AIDT	497-4542-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	3.51	3.06	2.28
TS1874AIDT	497-4542-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	4160.00/2,500		
TS1874ID	497-2240-5-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2.94	2.45	2.06
TS1874IDT	497-2240-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2.94	2.45	2.06
TS1874IDT	497-2240-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	3185.00/2,500		
TS2007IQT	497-6031-1-ND	3W Filter-Free Class-D Audio Power Amp*	8-DFN	1.50	1.25	1.05
TS2007IQT	497-6031-2-ND	3W Filter-Free Class-D Audio Power Amp*	8-DFN	1950.00/3,000		
TS2431BILT	497-4059-1-ND	Prog. Shunt Voltage Reference	SOT-23	.90	.72	.54
TS2431BILT	497-4059-2-ND	Prog. Shunt Voltage Reference	SOT-23	855.00/3,000		
TS3021ICT	497-5324-1-ND	1.8V, R/R HS Comparator*	SC70-5	1.95	1.63	1.37
TS3021ICT	497-5324-2-ND	1.8V, R/R HS Comparator*	SC70-5	2535.00/3,000		
TS3022IDT	497-5770-1-ND	1.8V, R/R HS Comparator*	8-SOIC	2.70	2.25	1.89
TS3022IDT	497-5770-2-ND	1.8V, R/R HS Comparator*	8-SOIC	2925.00/2,500		
TS3022IST	497-6103-1-ND	1.8V, R/R HS Comparator*	8-MSOP	2.70	2.35	1.75
TS3022IST	497-6103-2-ND	1.8V, R/R HS Comparator*	8-MSOP	5120.00/4,000		
TS3431BILT	497-4446-1-ND	1.24V Prog. Shunt Voltage Reference	SOT-23	.60	.48	.36
TS3431BILT	497-4446-2-ND	1.24V Prog. Shunt Voltage Reference	SOT-23	540.00/3,000		
TS3431BIZT	497-4447-1-ND	1.24V Prog. Shunt Voltage Reference	TO-92	1.31	1.14	.88
TS3431BIZT	497-4447-2-ND	1.24V Prog. Shunt Voltage Reference	TO-92	1015.00/2,000		
TS3431CILT	497-4637-1-ND	1.24V Prog. Shunt Voltage Reference	SOT-23	.70	.56	.42
TS3431CILT	497-4637-2-ND	1.24V Prog. Shunt Voltage Reference	SOT-23	630.00/3,000		
TS3702ID	497-3038-5-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	1.39	1.21	.93
TS3702IDT	497-2267-1-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	1.05	.91	.76
TS3702IDT	497-2267-2-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	930.00/2,500		
TS3702IN	497-2268-5-ND	Micropower Dual CMOS Voltage Comparator	8-Dip	1.05	.91	.70
TS3704CDT	497-4063-1-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	.90	.72	.54
TS3704CDT	497-4063-2-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	712.50/2,500		
TS3704IDT	497-2269-1-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	.98	.85	.65
TS3704IDT	497-2269-2-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	865.00/2,500		
TS3704IN	497-2270-5-ND	Micropower Quad CMOS Voltage Comparator	14-Dip	1.13	.98	.75
TS3704IPT	497-4064-1-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	1.09	.95	.73
TS3704IPT	497-4064-2-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	965.00/2,500		
TS4431AILT	497-5197-1-ND	Open Collector Shunt Voltage Reference*	SOT23-5	.81	.65	.49
TS4431AILT	497-5197-2-ND	Open Collector Shunt Voltage Reference*	SOT23-5	771.00/3,000		
TS4431ILT	497-5198-1-ND	Open Collector Shunt Voltage Reference*	SOT23-5	.77	.62	.46
TS4431ILT	497-5198-2-ND	Open Collector Shunt Voltage Reference*	SOT23-5	726.00/3,000		
TS4436AICT	497-5172-1-ND	0.6V, Adjustable Shunt Voltage Reference*	SC70-5	1.16	1.01	.78
TS4436AICT	497-5172-2-ND	0.6V, Adjustable Shunt Voltage Reference*	SC70-5	1236.00/3,000		
TS4436ICT	497-5173-1-ND	0.6V, Adjustable Shunt Voltage Reference*	SC70-5	.98	.85	.65
TS4436ICT	497-5173-2-ND	0.6V, Adjustable Shunt Voltage Reference*	SC70-5	1038.00/3,000		
TS4871ID	497-2290-5-ND	1W, R/R Output Audio Power Amp	8-SOIC	1.84	1.60	1.23
TS4871IDT	497-5433-1-ND	1W, R/R Output Audio Power Amp*	8-SOIC	1.84	1.60	1.23
TS4871IDT	497-5433-2-ND	1W, R/R Output Audio Power Amp*	8-SOIC	1630.00/2,500		
TS4871IST	497-4068-1-ND	1W, R/R Output Audio Power Amp	8-TSSOP	1.84	1.60	1.23
TS4871IST	497-4068-2-ND	1W, R/R Output Audio Power Amp	8-TSSOP	2608.00/4,000		
TS4890ID	497-2292-5-ND	1W, R/R Output Audio Power Amp	8-SOIC	1.95	1.63	1.37
TS4902ID	497-2294-5-ND	300mW, 3.3V Supply Audio Power Amp	8-SOIC	1.05	.91	.70
TS4909IQT	497-5992-1-ND	150mW, Dual Stereo Headphone Amp*	10-DFN	1.13	.98	.75
TS4909IQT	497-5992-2-ND	150mW, Dual Stereo Headphone Amp*	10-DFN	1197.00/3,000		
TS4956EIJT	497-5268-1-ND	Stereo Audio Amp System*	18-FlipChip	2.46	2.05	1.73
TS4956EIJT	497-5268-2-ND	Stereo Audio Amp System*	18-FlipChip	5230.00/5,000		
TS4962IQT	497-5993-1-ND	2.8W Filter Free Mono Class D Audio Power Amp*	8-DFN	1.71	1.43	1.20
TS4962IQT	497-5993-2-ND	2.8W Filter Free Mono Class D Audio Power Amp*	8-DFN	2223.00/3,000		
TS4962MEIJT	497-4986-1-ND	3W Filter Free Class D Audio Power Amp	FlipChip	1.43	1.24	.95
TS4962MEIJT	497-4986-2-ND	3W Filter Free Class D Audio Power Amp	FlipChip	2425.00/5,000		
TS4974IQT	497-5994-1-ND	1W Diff. Audio Power Amp*	10-DFN	1.95	1.63	1.37
TS4974IQT	497-5994-2-ND	1W Diff. Audio Power Amp*	10-DFN	2535.00/3,000		
TS4975EIJT	497-5199-1-ND	Stereo Headphone Drive Amp*	12-FlipChip	2.34	1.95	1.64
TS4975EIJT	497-5199-2-ND	Stereo Headphone Drive Amp*	12-FlipChip	4975.00/5,000		
TS4984EIJT	497-4677-1-ND	2x1W Stereo Audio Power Amp	15-FlipChip	3.78	3.29	2.45
TS4984EIJT	497-4677-2-ND	2x1W Stereo Audio Power Amp	15-FlipChip	8750.00/5,000		
TS4984IQT	497-6036-1-ND	2x1W Stereo Audio Power Amp*	16-TQFN	1.74	1.45	1.22
TS4984IQT	497-6036-2-ND	2x1W Stereo Audio Power Amp*	16-TQFN	2262.00/3,000		
TS4985EIJT	497-4678-1-ND	2x1.2W Stereo Audio Power Amp	15-FlipChip	2.94	2.45	2.06
TS4985EIJT	497-4678-2-ND	2x1.2W Stereo Audio Power Amp	15-FlipChip	6250.00/5,000		
TS4990IQT	497-5200-1-ND	1.2W Audio Power Amp*	8-DFN	1.62	1.35	1.14
TS4990IQT	497-5200-2-ND	1.2W Audio Power Amp*	8-DFN	2106.00/3,000		
TS4990IST	497-4451-1-ND	1.2W Audio Power Amp	8-Mini SOIC	1.62	1.35	1.14
TS4990IST	497-4451-2-ND	1.2W Audio Power Amp	8-Mini SOIC	2808.00/4,000		
TS4994IST	497-4452-1-ND	1.2W Diff. Input Audio Power Amp	8-Mini SOIC	2.46	2.05	1.73
TS4994IST	497-4452-2-ND	1.2W Diff. Input Audio Power Amp	8-Mini SOIC	4264.00/4,000		
TS4995EIJT	497-6101-1-ND	1.2W Diff. Input Audio Power Amp*	9-FlipChip	1.20	1.04	.80
TS4995EIJT	497-6101-2-ND	1.2W Diff. Input Audio Power Amp*	9-FlipChip	2040.00/5,000		
TS4997IQT	497-5995-1-ND	2x1W Diff. Audio Power Amp*	16-QFN	2.82	2.35	1.98
TS4997IQT	497-5995-2-ND	2x1W Diff. Audio Power Amp*	16-QFN	5499.00/4,500		
TS7211AILT	497-3046-1-ND	BiCMOS Rail-to-Rail Micropower Comparator	SOT-23-5	1.35	1.17	.90
TS7211AILT	497-3046-2-ND	BiCMOS Rail-to-Rail Micropower Comparator	SOT-23-5	1436.40/3,000		
TS7221AILT	497-3047-1-ND	BiCMOS Rail-to-Rail Micropower Comparator	SOT-23-5	1.35	1.17	.90
TS7221AILT	497-3047-2-ND	BiCMOS Rail-to-Rail Micropower Comparator	SOT-23-5	1436.40/3,000		
TSA1203IF	497-4125-ND	Dual-Ch., 12-Bit, 40MSPS ADC	48-TQFP	33.08	28.35	25.14
TSA1204IFT	497-5435-1-ND	Dual-Ch., 12-Bit, 20MSPS ADC*	48-TQFP	17.00	15.73	11.90
TSA1204IFT	497-5435-2-ND	Dual-Ch., 12-Bit, 20MSPS ADC*	48-TQFP	25500.00/2,400		
TSH10ID	497-3060-5-ND	140MHz Bandwidth, LN, Op Amp	8-SOIC	1.69	1.47	1.13
TSH22IDT	497-2320-1-ND	Dual Bipolar Op Amp	8-SOIC	1.24	1.08	.83
TSH22IDT	497-2320-2-ND	Dual Bipolar Op Amp	8-SOIC	1097.50/2,500		
TSH24IDT	497-2321-1-ND	Quad Bipolar Op Amp	14-SOIC	1.35	1.17	.90
TSH24IDT	497-2321-2-ND	Quad Bipolar Op Amp	14-SOIC	1197.50/2,500		
TSH60CDT	497-5174-1-ND	Wideband, Low Power Op Amp*	8-SOIC	1.31	1.14	.88
TSH60CDT	497-5174-2-ND	Wideband, Low Power Op Amp*	8-SOIC	1165.00/2,500		
TSH61CDT	497-5175-1-ND	Wideband, Low Power Op Amp*	8-SOIC	1.31	1.14	.88
TSH61CDT	497-5175-2-ND	Wideband, Low Power Op Amp*	8-SOIC	1165.00/2,500		
TSH62CDT	497-6124-1-ND	Wideband, LP Dual Op Amp*	8-SOIC	1.58	1.37	1.05
TSH62CDT	497-6124-2-ND	Wideband, LP Dual Op Amp*	8-SOIC	1397.50/2,500		
TSH63CDT	497-5176-1-ND	Wideband, Low Power Op Amp*	14-SOIC	2.85	2.38	2.00
TSH63CDT	497-5176-2-ND	Wideband, Low Power Op Amp*	14-SOIC	3087.50/2,500		
TSH64CDT	497-5177-1-ND	Wideband, Low Power Op Amp*	14-SOIC	2.85	2.38	2.00
TSH64CDT	497-5177-2-ND	Wideband, Low Power Op Amp*	14-SOIC	3087.50/2,500		
TSH70CD	497-3070-5-ND	Wideband, Low Power Op Amp	8-SOIC	1.50	1.25	1.05
TSH72CD	497-2324-5-ND	Wideband, Low Power Dual Op Amp	8-SOIC	1.74	1.45	1.22
TSH72CPT	497-4080-1-ND	Wideband, Low Power Dual Op Amp	8-TSSOP	1.74	1.45	1.22
TSH72CPT	497-4080-2-ND	Wideband, Low Power Dual Op Amp	8-TSSOP	3016.00/4,000		
TSH74CD	497-2325-5-ND	Wideband, Low Power Op Amp	14-SOIC	3.51	3.06	2.28
TSH75CDT	497-5178-1-ND	Wideband, Rail-to-Rail Op Amp*	16-SOIC	3.65	3.18	2.37
TSH75CDT	497-5178-2-ND	Wideband, Rail-to-Rail Op Amp*	16-SOIC	4320.00/2,500		
TSH80ID	497-2326-5-ND	Wideband, Rail-to-Rail Op Amp	8-SOIC	1.50	1.30	1.00
TSH80IDT	497-6043-1-ND	Wideband, Rail-to-Rail Op Amp*	8-SOIC	1.50	1.30	1.00
TSH80IDT	497-6043-2-ND	Wideband, Rail-to-Rail Op Amp*	8-SOIC	1330.00/2,500		
TSH81ID	497-2327-5-ND	Wideband, Rail-to-Rail Op Amp	8-SOIC	1.50	1.30	1.00
TSH82ID	497-2328-5-ND	Wideband, Rail-to-Rail Op Amp	8-SOIC	1.62	1.35	1.14
TSH94ID	497-3072-5-ND	High Speed, LP Quad Op Amp	16-SOIC	3.43	2.99	2.23
TSH95ID	497-2329-5-ND	High Speed, LP Quad Op Amp	16-SOIC	2.92	2.54	1.89
TSH110ILT	497-4459-1-ND	Wideband, Low Noise Op Amp	SOT-23-5	1.62	1.35	1.14
TSH110ILT	497-4459-2-ND	Wideband, Low Noise Op Amp	SOT-23-5	2106.00/3,000		
TSH111ID	497-3061-5-ND	Current Feedback Op Amp	8-SOIC	1.62	1.35	1.14
TSH111IPT	497-4460-1-ND	Current Feedback Op Amp	8-TSSOP	1.62	1.35	1.14
TSH111IPT	497-4460-2-ND	Current Feedback Op Amp	8-TSSOP	2808.00/4,000		
TSH112ID	497-3062-5-ND	Dual, Current Feedback Op Amp	8-SOIC	1.89	1.58	1.33
TSH112IPT	497-4461-1-ND	Dual, Current Feedback Op Amp	8-TSSOP	1.89	1.58	1.33
TSH112IPT	497-4461-2-ND	Dual, Current Feedback Op Amp	8-TSSOP	3276.00/4,000		
TSH113ID	497-3063-5-ND	Triple, Current Feedback Op Amp	14-SOIC	3.11	2.71	2.02
TSH114ID	497-3064-5-ND	Quad, Current Feedback Op Amp	14-SOIC	3.19	2.78	2.07
TSH173IDT	497-6033-1-ND	Triple Video Buffer*	8-SOIC	1.73	1.50	1.15
TSH173IDT	497-6033-2-ND	Triple Video Buffer*	8-SOIC	1530.00/2,500		
TSH300IDT	497-4776-1-ND	Ultra Low Noise HS Op Amp	8-SOIC	4.32	3.76	2.80
TSH300IDT	497-4776-2-ND	Ultra Low Noise HS Op Amp	8-SOIC	5120.00/2,500		
TSH310IDT	497-4462-1-ND	400µA High Speed Op Amp	8-SOIC	1.74	1.45	1.22
TSH310IDT	497-4462-2-ND	400µA High Speed Op Amp	8-SOIC	1885.00/2,500		
TSH310ILT	497-4463-1-ND	400µA High Speed Op Amp	SOT-23-5	1.83	1.53	1.29
TSH310ILT	497-4463-2-ND	400µA High Speed Op Amp	SOT-23-5	2379.00/3,000		
TSH330IDT	497-4464-1-ND	1.1GHz Low Noise Op Amp	8-SOIC	2.84	2.47	1.84
TSH330IDT	497-4464-2-ND	1.1GHz Low Noise Op Amp	8-SOIC	3360.00/2,500		
TSH340IDT	497-4679-1-ND	320MHz Single Supply Video Buffer	8-SOIC	6.90	6.30	4.98
TSH340IDT	497-4679-2-ND	320MHz Single Supply Video Buffer	8-SOIC	9450.00/2,500		
TSH341IDT	497-4680-1-ND	300MHz Single Supply Video Amp	8-SOIC	6.90	6.30	4.98
TSH341IDT	497-4680-2-ND	300MHz Single Supply Video Amp	8-SOIC	9450.00/2,500		
TSH343IDT	497-4987-1-ND	280MHz Single Supply Triple Video Buffer	8-SOIC	2.31	1.93	1.62
TSH343IDT	497-4987-2-ND	280MHz Single Supply Triple Video Buffer	8-SOIC	2502.50/2,500		
TSH344IDT	497-4988-1-ND	340MHz Single Supply Triple Video Buffer	8-SOIC	2.31	1.93	1.62
TSH344IDT	497-4988-2-ND	340MHz Single Supply Triple Video Buffer	8-SOIC	2502.50/2,500		

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STANDARD LINEAR *(Continued)*
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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TSH350IDT	497-4465-1-ND	550MHz Low Noise Current Feedback Amp	8-SOIC	1.83	1.53	1.29
TSH350IDT	497-4465-2-ND	550MHz Low Noise Current Feedback Amp	8-SOIC	1982.50/2,500		
TSH350ILT	497-4466-1-ND	550MHz Low Noise Current Feedback Amp	SOT-23-5	1.83	1.53	1.29
TSH350ILT	497-4466-2-ND	550MHz Low Noise Current Feedback Amp	SOT-23-5	2379.00/3,000		
TSH511CF	497-2322-ND	Hi-Fi Stereo/Mono Infrared Receiver Stereo Sub-Carrier Demodulator	44-TQFP	4.59	4.00	2.98
TSH512CF	497-2323-ND	Hi-Fi Stereo/Mono Infrared Transmitter Stereo Sub-Carrier Generator	44-TQFP	4.59	4.00	2.98
TSL1014IFT	497-4774-1-ND	14+1 Channel Buffer for TFT-LCD Panels	48-TQFP	3.78	3.29	2.45
TSL1014IFT	497-4774-2-ND	14+1 Channel Buffer for TFT-LCD Panels	48-TQFP	4468.80/2,400		
TSM007IDT	497-4468-1-ND	Primary PWM Controller	8-SOIC	3.19	2.78	2.07
TSM007IDT	497-4468-2-ND	Primary PWM Controller	8-SOIC	3775.00/2,500		
TSM100IDT	497-2330-1-ND	Single Op Amp and Single Comparator	8-SOIC	.94	.82	.63
TSV321IDT	497-4773-1-ND	GP, In/Out, R/R, LP Op Amp	8-SOIC	1.35	1.17	.90
TSV321IDT	497-4773-2-ND	GP, In/Out, R/R, LP Op Amp	8-SOIC	1197.50/2,500		
TSV324IPT	497-5201-1-ND	GP, In/Out, R/R, LP Op Amp*	14-TSSOP	1.50	1.30	1.00
TSV324IPT	497-5201-2-ND	GP, In/Out, R/R, LP Op Amp*	14-TSSOP	1330.00/2,500		
TSV358AIDT	497-5827-1-ND	GP, In/Out, R/R, LP Op Amp*	8-SOIC	1.54	1.34	1.03
TSV358AIDT	497-5827-2-ND	GP, In/Out, R/R, LP Op Amp*	8-SOIC	1362.50/2,500		
TSV358IDT	497-4772-1-ND	GP, In/Out, R/R, LP Op Amp	8-SOIC	.99	.80	.60
TSV358IDT	497-4772-2-ND	GP, In/Out, R/R, LP Op Amp	8-SOIC	785.00/2,500		
TSV358IPT	497-4771-1-ND	GP, In/Out, R/R, LP Op Amp	8-TSSOP	.99	.80	.60
TSV358IPT	497-4771-2-ND	GP, In/Out, R/R, LP Op Amp	8-TSSOP	1256.00/4,000		
TSV358IST	497-4769-1-ND	GP, In/Out, R/R, LP Op Amp	8-SOIC	.99	.80	.60
TSV358IST	497-4769-2-ND	GP, In/Out, R/R, LP Op Amp	8-SOIC	1256.00/4,000		
TSV911AIDT	497-5828-1-ND	Single, I/O, R/R, 8MHz Op Amp*	8-SOIC	1.65	1.38	1.16
TSV911AIDT	497-5828-2-ND	Single, I/O, R/R, 8MHz Op Amp*	8-SOIC	1787.50/2,500		
TSV911AILT	497-5998-1-ND	Single, I/O, R/R, 8MHz Op Amp*	SOT-23-5	1.76	1.53	1.18
TSV911IDT	497-5999-1-ND	Single, I/O, R/R, 8MHz Op Amp*	8-SOIC	1.50	1.30	1.00
TSV911IDT	497-5999-2-ND	Single, I/O, R/R, 8MHz Op Amp*	8-SOIC	1330.00/2,500		
TSV911ILT	497-6000-1-ND	Single, I/O, R/R, 20MHz Op Amp*	SOT-23-5	1.50	1.30	1.00
TSV911ILT	497-6000-2-ND	Single, I/O, R/R, 20MHz Op Amp*	SOT-23-5	1596.00/3,000		
TSV912AIDT	497-5829-1-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-SOIC	1.89	1.58	1.33
TSV912AIDT	497-5829-2-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-SOIC	2047.50/2,500		
TSV912AIST	497-5830-1-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-MSOP	1.89	1.58	1.33
TSV912AIST	497-5830-2-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-MSOP	3276.00/4,000		
TSV912IST	497-5771-1-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-MSOP	2.10	1.75	1.47
TSV912IST	497-5771-2-ND	Dual, I/O, R/R, 8MHz Op Amp*	8-MSOP	3640.00/4,000		
TSV914AIDT	497-6127-1-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-SOIC	1.74	1.45	1.22
TSV914AIDT	497-6127-2-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-SOIC	1885.00/2,500		
TSV914AIPT	497-5831-1-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-TSSOP	2.25	1.88	1.58
TSV914AIPT	497-5831-2-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-TSSOP	2437.50/2,500		
TSV914IDT	497-6128-1-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-SOIC	1.74	1.45	1.22
TSV914IDT	497-6128-2-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-SOIC	1885.00/2,500		
TSV914IPT	497-5832-1-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-TSSOP	2.07	1.73	1.45
TSV914IPT	497-5832-2-ND	Quad, I/O, R/R, 8MHz Op Amp*	14-TSSOP	2242.50/2,500		
TSV991AILT	497-5833-1-ND	Single, I/O, R/R, 20MHz Op Amp*	SOT-23-5	1.65	1.38	1.16
TSV991ILT	497-6001-1-ND	Single, I/O, R/R, 8MHz Op Amp*	SOT-23-5	1.50	1.30	1.00
TSV991ILT	497-6001-2-ND	Single, I/O, R/R, 8MHz Op Amp*	SOT-23-5	1596.00/3,000		
TSV992IDT	497-6002-1-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-SOIC	1.86	1.55	1.31
TSV992IDT	497-6002-2-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-SOIC	2015.00/2,500		
TSV994IPT	497-6003-1-ND	Quad, I/O, R/R, 20MHz Op Amp*	SOT-23-5	2.25	1.88	1.58
TSV994IPT	497-6003-2-ND	Quad, I/O, R/R, 20MHz Op Amp*	SOT-23-5	2437.50/2,500		
TSV991AILT	497-5833-2-ND	Single, I/O, R/R, 20MHz Op Amp*	SOT-23-5	2145.00/3,000		
TSV992AIDT	497-5834-1-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-SOIC	1.89	1.58	1.33
TSV992AIDT	497-5834-2-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-SOIC	2047.50/2,500		
TSV992AIST	497-5835-1-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-MSOP	1.89	1.58	1.33
TSV992AIST	497-5835-2-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-MSOP	3276.00/4,000		
TSV992IST	497-5836-1-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-MSOP	1.74	1.45	1.22
TSV992IST	497-5836-2-ND	Dual, I/O, R/R, 20MHz Op Amp*	8-MSOP	3016.00/4,000		
TSV994AIDT	497-6125-1-ND	Quad, I/O, R/R, 20MHz Op Amp*	14-SOIC	2.04	1.70	1.43
TSV994AIDT	497-6125-2-ND	Quad, I/O, R/R, 20MHz Op Amp*	14-SOIC	2210.00/2,500		
TSV994AIPT	497-5837-1-ND	Quad, I/O, R/R, 20MHz Op Amp*	14-TSSOP	2.49	2.08	1.75
TSV994AIPT	497-5837-2-ND	Quad, I/O, R/R, 20MHz Op Amp*	14-TSSOP	2697.50/2,500		
TSV994IDT	497-6126-1-ND	Quad, I/O, R/R, 20MHz Op Amp*	14-SOIC	1.89	1.58	1.33
TSV994IDT	497-6126-2-ND	Quad, I/O, R/R, 20MHz Op Amp*	14-SOIC	2047.50/2,500		
UA741CDT	497-3075-1-ND	Single Op Amp	8-SOIC	.68	.54	.41
UA741IDT	497-2337-1-ND	Single Op Amp	8-SOIC	.81	.65	.49
UA741IDT	497-2337-2-ND	Single Op Amp	8-SOIC	642.50/2,500		
UA748CN	497-4083-5-ND	Precision Single Op Amp	8-Dip	.99	.80	.60
UA748ID	497-4084-5-ND	Precision Single Op Amp	8-SOIC	1.09	.95	.73

SMART POWER
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
L482D1013TR	497-3627-1-ND	Hall-Effect Pickup Ignition Controller	16-SOIC	4.20	3.66	2.73
L482D1013TR	497-3627-2-ND	Hall-Effect Pickup Ignition Controller	16-SOIC	4982.50/2,500		
L484D1013TR	497-3628-1-ND	Magnetic Pickup Ignition Controller	16-SOIC	4.22	3.68	2.74
L484D1013TR	497-3628-2-ND	Magnetic Pickup Ignition Controller	16-SOIC	5005.00/2,500		
L4936E	497-3913-5-ND	Dual Adv. Voltage Regulator	11-Multiwatt	6.13	5.34	3.98
L4938E	497-3355-5-ND	Advanced Voltage Regulator	16-Dip	4.86	4.23	3.15
L4938ED013TR	497-3355-1-ND	Advanced Voltage Regulator	20-SOIC	3.56	3.11	2.31
L4938ED013TR	497-3355-2-ND	Advanced Voltage Regulator	20-SOIC	1756.00/1,000		
L4938EPD13TR	497-3915-1-ND	Advanced Voltage Regulator	20-Power SOIC	4.58	3.99	2.97
L4938EPD13TR	497-3915-2-ND	Advanced Voltage Regulator	20-Power SOIC	1423.80/600		
L4938ND013TR	497-3916-1-ND	Dual Multifunction Volt. Regulator	20-SOIC	3.06	2.67	1.99
L4938ND013TR	497-3916-2-ND	Dual Multifunction Volt. Regulator	20-SOIC	1509.55/1,000		
L4938NPD013TR	497-3917-1-ND	Dual Multifunction Voltage Reg.	20-Power SOIC	4.63	4.04	3.01
L4938NPD013TR	497-3917-2-ND	Dual Multifunction Voltage Reg.	20-Power SOIC	1441.20/600		
L4947PD	497-1405-5-ND	5V, 0.5A LDO Reg. w/Reset	20-Power SOIC	4.13	3.60	2.68
L4949E	497-3631-ND	Multifunction Very Low Drop Voltage Regulator	8-MiniDip	1.74	1.51	1.16
L4949ED013TR	497-3632-1-ND	Multifunction Very Low Drop Voltage Regulator	8-SOIC	1.17	1.02	.78
L4949ED013TR	497-3632-2-ND	Multifunction Very Low Drop Voltage Regulator	8-SOIC	1037.50/2,500		
L4949EDMITTR	497-3919-1-ND	Multifunction Very Low Drop Voltage Regulator	8-SOIC	1.70	1.48	1.14
L4949EDMITTR	497-3919-2-ND	Multifunction Very Low Drop Voltage Regulator	8-SOIC	1509.55/2,500		
L4949EP013TR	497-3633-1-ND	Multifunction Very Low Drop Voltage Regulator	20-SOIC	1.61	1.40	1.08
L4949EP013TR	497-3633-2-ND	Multifunction Very Low Drop Voltage Regulator	20-SOIC	624.00/1,000		
L9333MD-TR	497-3923-1-ND	Quad Low Side Driver	20-SOIC	3.13	2.73	2.03
L9333MD-TR	497-3923-2-ND	Quad Low Side Driver	20-SOIC	1543.00/1,000		
L9337MD/TR	497-3924-1-ND	Triple Low Side Driver	20-SOIC	3.13	2.73	2.03
L9337MD/TR	497-3924-2-ND	Triple Low Side Driver	20-SOIC	1543.00/1,000		
L9338MD	497-3657-5-ND	Quad Low Side Driver	20-SOIC	3.13	2.73	2.03
L9338MD/TR	497-3657-1-ND	Quad Low Side Driver	20-SOIC	3.13	2.73	2.03
L9338MD/TR	497-3657-2-ND	Quad Low Side Driver	20-SOIC	1543.00/1,000		
L9339-TR	497-3925-1-ND	Quad Low Side Driver	20-SOIC	3.13	2.73	2.03
L9339-TR	497-3925-2-ND	Quad Low Side Driver	20-SOIC	1542.80/1,000		
L9339MD-TR	497-3926-1-ND	Quad Low Side Driver	20-SOIC	3.13	2.73	2.03
L9339MD-TR	497-3926-2-ND	Quad Low Side Driver	20-SOIC	1543.00/1,000		
L9386MD	497-3928-5-ND	Dual Intelligent Power Low Side Switch	20-SOIC	5.27	4.59	3.42
L9613B013TR	497-3929-1-ND	Data Interface	8-SOIC	2.79	2.33	1.96
L9613B013TR	497-3929-2-ND	Data Interface	8-SOIC	3022.50/2,500		
L9615D013TR	497-3658-1-ND	CAN Bus Transceiver	8-SOIC	2.85	2.38	2.00
L9615D013TR	497-3658-2-ND	CAN Bus Transceiver	8-SOIC	3087.50/2,500		
L9616-TR	497-3930-1-ND	High Speed CAN Bus Transceiver	8-SOIC	3.24	2.82	2.10
L9616-TR	497-3930-2-ND	High Speed CAN Bus Transceiver	8-SOIC	3840.00/2,500		
L9637D013TR	497-3659-1-ND	ISO 9141 Interface	8-SOIC	2.55	2.13	1.79
L9637D013TR	497-3659-2-ND	ISO 9141 Interface	8-SOIC	2762.50/2,500		
L9638D013TR	497-3931-1-ND	LIN Bus Transceiver	8-SOIC	1.70	1.47	1.13
L9638D013TR	497-3931-2-ND	LIN Bus Transceiver	8-SOIC	1502.50/2,500		
L9651	497-3932-5-ND	Smart Quad Switch	20-Power SOIC	6.35	5.80	4.59
L9700D013TR	497-3372-1-ND	Hex Precision Limiter	8-SOIC	2.93	2.56	1.91
L9700D013TR	497-3372-2-ND	Hex Precision Limiter	8-SOIC	3475.20/2,500		
L9820D013TR	497-3934-1-ND	High Side Driver	8-SOIC	1.81	1.51	1.27
L9820D013TR	497-3934-2-ND	High Side Driver	8-SOIC	1962.50/2,500		
L9822EPD013TR	497-3660-1-ND	Octal Serial Solenoid Driver	20-Power SOIC	6.44	5.88	4.65
L9822EPD013TR	497-3660-2-ND	Octal Serial Solenoid Driver	20-Power SOIC	2352.00/600		
L9825TR	497-3936-1-ND	Octal Low Side Driver Circuit for Automotive Applications	20-Power SOIC	3.38	2.94	2.19
L9825TR	497-3936-2-ND	Octal Low Side Driver Circuit for Automotive Applications	20-Power SOIC	1050.00/600		
L9903TR	497-3937-1-ND	Motor Bridge Controller	20-SOIC	6.67	6.09	4.82
L9903TR	497-3937-2-ND	Motor Bridge Controller	20-SOIC	3698.00/1,000		
L9925	497-3938-5-ND	DMOS Dual Full Bridge Driver	28-SOIC	7.59	6.93	5.48
L9997ND013TR	497-3661-1-ND	Dual Half Bridge Driver	20-SOIC	2.54	2.12	1.78
L9997ND013TR	497-3661-2-ND	Dual Half Bridge Driver	20-SOIC	1140.75/1,000		
L9669013TR	497-3933-1-ND	Fault Tolerant CAN Transceiver	14-SOIC	3.94	3.44	2.56
L9669013TR	497-3933-2-ND	Fault Tolerant CAN Transceiver	14-SOIC	4672.50/2,500		

TEMPERATURE SENSORS
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M4Z28-BR00SH1	497-3689-5-ND	ZEROPOWER® SNAPHAT Battery for 28-Pin SOIC	—	6.21	5.41	4.03
M4Z32-BR00SH1	497-3690-5-ND	ZEROPOWER® SNAPHAT Battery for 28-Pin SOIC	—	8.17	7.46	5.90
STCN75DS2F	497-6317-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	1.65	1.38	1.16
STCN75DS2F	497-6317-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	743.00/1,000		
STCN75M2F	497-6176-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	1.62	1.35	1.14
STCN75M2F	497-6176-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	1755.00/2,500		
STDS75DS2F	497-6318-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	1.77	1.48	1.24
STDS75DS2F	497-6318-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	797.00/1,000		
STDS75M2F	497-6177-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	1.71	1.43	1.20
STDS75M2F	497-6177-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	1852.50/2,500		
STLM20DD9F	497-5814-1-ND	Ultra Low Current 2.4V Precision Analog Temperature Sensor*	4-UDFN	1.09	.95	.73
STLM20DD9F	497-5814-2-ND	Ultra Low Current 2.4V Precision Analog Temperature Sensor*	4-UDFN	1158.00/3,000		
STLM20W87F	497-5970-1-ND	Ultra Low Current 2.4V Precision Analog Temperature Sensor*	SOT-23-5	1.16	1.01	.78
STLM20W87F	497-5970-2-ND	Ultra Low Current 2.4V Precision Analog Temperature Sensor*	SOT-23-5	1236.00/3,000		
STLM75DS2F	497-6326-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	1.73	1.50	1.15
STLM75DS2F	497-6326-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	667.00/1,000		
STTS75DS2F	497-6331-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	1.89	1.58	1.33
STTS75DS2F	497-6331-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-MSOP	851.00/1,000		
STTS75M2F	497-6178-1-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	2.04	1.70	1.43
STTS75M2F	497-6178-2-ND	Digital Temperature Sensor and Thermal Watchdog*	8-SOIC	2210.00/2,500		
LM335ADT	497-4047-1-ND	Precision Temperature Sensor	8-SOIC	1.61	1.40	1.08
LM335AZ	497-2977-5-ND	Precision Temperature Sensor	TO-92	1.43	1.24	.95
LM335D	497-1583-5-ND	Precision Temperature Sensor	8-SOIC	1.46	1.27	.98
LM335DT	497-1583-1-ND	Precision Temperature Sensor	8-SOIC	1.34	1.16	.90
LM335DT	497-1583-2-ND	Precision Temperature Sensor	8-SOIC	1187.50/2,500		
LM335Z	497-1584-ND	Precision Temperature Sensor	TO-92	1.20	1.04	.80

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

STMicroelectronics Digi-Reel®

THYRISTOR TRIAC

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
ACS102-6TA-TR	497-5566-1-ND	AC Line Switch*	TO-92	1.09	.95	.73
ACS102-6TA-TR	497-5566-2-ND	AC Line Switch*	TO-92	842.00/2,000		
ACS102-6T1-TR	497-5565-1-ND	AC Line Switch*	8-SOIC	1.09	.95	.73
ACS102-6T1-TR	497-5565-2-ND	AC Line Switch*	8-SOIC	965.00/2,500		
ACS108-5SA	497-2401-ND	AC Line Switch*	TO-92	1.68	1.40	1.18
ACS108-6SA-TR	497-5567-1-ND	AC Line Switch*	TO-92	1.16	1.01	.78
ACS108-6SA-TR	497-5567-2-ND	AC Line Switch*	TO-92	900.00/2,000		
ACS108-6SN-TR	497-5568-1-ND	AC Line Switch*	SOT-223	1.54	1.34	1.03
ACS108-6SN-TR	497-5568-2-ND	AC Line Switch*	SOT-223	2180.00/4,000		
ACS110-7SB2	497-4149-5-ND	AC Line Switch*	8-DIL	1.35	1.17	.90
ACS120-7SB-TR	497-6099-1-ND	AC Line Switch*	D-PAK	1.61	1.40	1.08
ACS120-7SB-TR	497-6099-2-ND	AC Line Switch*	D-PAK	1430.00/2,500		
ACS120-7SFP	497-3815-5-ND	AC Line Switch*	TO-220-FPAB	1.69	1.47	1.13
ACS302-5T3	497-3114-5-ND	AC Switch Array, 3 Lines*	20-SOIC	2.13	1.78	1.50
ACS302-5T3-TR	497-5326-1-ND	AC Switch Array, 3 Lines*	20-SOIC	2.13	1.78	1.50
ACS302-5T3-TR	497-5326-2-ND	AC Switch Array, 3 Lines*	20-SOIC	959.00/1,000		
ACST2-8SB-TR	497-6006-1-ND	AC Switch, 800V, 2A, 10mA*	D-PAK	1.20	1.04	.80
ACST2-8SB-TR	497-6006-2-ND	AC Switch, 800V, 2A, 10mA*	D-PAK	1065.00/2,500		
ACST4-7CB	497-4639-5-ND	AC Power Switch*	D-PAK	1.68	1.40	1.18
ACST4-7CFP	497-3820-5-ND	AC Power Switch	TO-220-FPAB	1.69	1.47	1.13
ACST4-7CH	497-4640-5-ND	AC Power Switch*	I-PAK	1.65	1.43	1.10
ACST4-7SB	497-2555-5-ND	AC Power Switch	D-PAK	1.62	1.35	1.14
ACST4-7SB-TR	497-2555-1-ND	AC Power Switch*	D-PAK	1.50	1.25	1.05
ACST4-7SB-TR	497-2555-2-ND	AC Power Switch*	D-PAK	1820.00/2,500		
ACST4-7SFP	497-2568-5-ND	AC Power Switch*	TO-220-FPAB	1.80	1.50	1.26
ACST6-7SFP	497-3789-5-ND	Over Voltage Protected AC Power Switch*	TO-220-FPAB	2.13	1.78	1.50
ACST6-7SG	497-3115-5-ND	Over Volt. Protected AC Pwr Switch*	D2-PAK	2.13	1.78	1.50
ACST6-7SG-TR	497-6100-1-ND	Over Voltage Protected AC Power Switch*	D2-PAK	1.86	1.55	1.31
ACST6-7SG-TR	497-6100-2-ND	Over Voltage Protected AC Power Switch*	D2-PAK	837.00/1,000		
ACST6-7ST	497-2547-5-ND	Over Volt. Protected AC Power Switch*	TO-220AB	1.98	1.65	1.39
ACST8-8CFP	497-2566-5-ND	Over Voltage Protected AC Power Switch*	TO-220-FPAB	2.67	2.23	1.87
ACST8-8CG-TR	497-4151-1-ND	Over Volt. Protected AC Power Switch	D2-PAK	2.67	2.23	1.87
ACST8-8CG-TR	497-4151-2-ND	Over Volt. Protected AC Power Switch	D2-PAK	1201.50/1,000		
ACST8-8CT	497-3380-ND	Over Voltage Protected AC Power Switch	TO-220AB	2.40	2.00	1.68
AVS08CB	497-2567-5-ND	Auto Voltage Switch*	TO-220AB	2.22	1.85	1.56
AVS12CB	497-2564-5-ND	Auto Voltage Switch*	TO-220AB	2.73	2.38	1.77
STCC05-BD4	497-4328-5-ND	Home Appliance Control Circuit	20-Dip	2.55	2.13	1.79
STIL02-P5	497-3174-5-ND	AC Inrush Current Limiter	Pentawatt HV2	1.77	1.48	1.24
STIL04-P5	497-3175-5-ND	AC Inrush Current Limiter*	Pentawatt HV2	1.77	1.48	1.24
STIL06-T5	497-5388-5-ND	AC Inrush Current Limiter*	Pentawatt HV2	2.55	2.13	1.79
STIL08-T5	497-4360-5-ND	AC Inrush Current Limiter*	Pentawatt	3.92	3.41	2.54
TN22-1500B-TR	497-3772-1-ND	400V, 2A Startlight	D-PAK	1.58	1.37	1.05
TN22-1500B-TR	497-3772-2-ND	400V, 2A Startlight	D-PAK	1396.50/2,500		
TN22-1500T	497-6169-ND	400V, 2A Startlight*	TO-220-AB	1.65	1.43	1.10

STMicroelectronics Digi-Reel®

VIPOWER

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
VNH3SP30TR-E	497-3565-1-ND	Fully Integrated H-Bridge Motor Driver	30-SOIC	8.26	7.55	5.97
VNH3SP30TR-E	497-3565-2-ND	Fully Integrated H-Bridge Motor Driver	30-SOIC	4581.00/1,000		

STMicroelectronics Digi-Reel®

VOLTAGE REGULATORS

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
KF25BDT-TR	497-4202-1-ND	2.5V, Very LDO Voltage Regulator	D-PAK	1.16	1.01	.78
KF25BDT-TR	497-4202-2-ND	2.5V, Very LDO Voltage Regulator	D-PAK	1030.00/2,500		
KF33BDT-TR	497-1148-1-ND	3.3V, Very LDO Voltage Regulator	D-PAK	1.50	1.30	1.00
KF33BDT-TR	497-1148-2-ND	3.3V, Very LDO Voltage Regulator	D-PAK	1330.00/2,500		
KF50BDT-TR	497-1149-1-ND	5V, Very LDO Voltage Regulator	D-PAK	1.80	1.44	1.08
KF50BDT-TR	497-1149-2-ND	5V, Very LDO Voltage Regulator	D-PAK	1330.00/2,500		
KF80BD-TR	497-1150-1-ND	8V, Very LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00
KF80BD-TR	497-1150-2-ND	8V, Very LDO Voltage Regulator	8-SOIC	1330.00/2,500		
KF80BDT-TR	497-1151-1-ND	8V, Very LDO Voltage Regulator	D-PAK	1.50	1.30	1.00
KF80BDT-TR	497-1151-2-ND	8V, Very LDO Voltage Regulator	D-PAK	1330.00/2,500		
L78L05ABD13TRI	497-1180-1-ND	5V, Positive Voltage Regulator*	8-SOIC	.48	.38	.29
L78L05ABD13TRI	497-1180-2-ND	5V, Positive Voltage Regulator*	8-SOIC	357.50/2,500		
L78L05ABUTR	497-1181-1-ND	5V, Positive Voltage Regulator*	SOT-89	.70	.56	.42
L78L05ABUTR	497-1181-2-ND	5V, Positive Voltage Regulator*	SOT-89	525.00/2,500		
L78L05ABZ	497-1009-ND	5V, Positive Voltage Regulator*	TO-92	.50	.40	.30
L78L05ACD	497-2951-5-ND	5V, Positive Voltage Regulator*	8-SOIC	.77	.62	.46
L78L05ACD13TR	497-1182-1-ND	5V, Positive Voltage Regulator*	8-SOIC	.47	.36	.26
L78L05ACD13TR	497-1182-2-ND	5V, Positive Voltage Regulator*	8-SOIC	305.00/2,500		
L78L05ACUTR	497-1183-1-ND	5V, Positive Voltage Regulator*	SOT-89	.58	.46	.35
L78L05ACUTR	497-1183-2-ND	5V, Positive Voltage Regulator*	SOT-89	432.50/2,500		
L78L05ACZ	497-2952-5-ND	5V, Positive Voltage Regulator	TO-92	.50	.40	.30
L78L05ACZTR	497-1184-1-ND	5V, Positive Voltage Regulator*	TO-92	.80	.64	.48
L78L06ABZ	497-1010-ND	6V, Positive Voltage Regulator	TO-92	.50	.40	.30
L78L06ACD13TR	497-1185-1-ND	6V, Positive Voltage Regulator*	8-SOIC	.81	.65	.49
L78L06ACD13TR	497-1185-2-ND	6V, Positive Voltage Regulator*	8-SOIC	432.50/2,500		
L78L06ACZ	497-2953-5-ND	6V, Positive Voltage Regulator*	TO-92	.50	.40	.30
L78L06ACZ-TR	497-1186-1-ND	6V, Positive Voltage Regulator	TO-92	.72	.58	.44
L78L08ABD13TR	497-1187-1-ND	8V, Positive Voltage Regulator	8-SOIC	.50	.40	.30
L78L08ABD13TR	497-1187-2-ND	8V, Positive Voltage Regulator	8-SOIC	375.00/2,500		
L78L08ABUTR	497-1188-1-ND	8V, Positive Voltage Regulator*	SOT-89	.70	.56	.42
L78L08ABUTR	497-1188-2-ND	8V, Positive Voltage Regulator*	SOT-89	525.00/2,500		
L78L08ABZ	497-1011-ND	8V, Positive Voltage Regulator	TO-92	.68	.54	.41
L78L08ACD13TR	497-1189-1-ND	8V, Positive Voltage Regulator	8-SOIC	.55	.44	.33
L78L08ACD13TR	497-1189-2-ND	8V, Positive Voltage Regulator	8-SOIC	412.50/2,500		
L78L08ACZ	497-2954-5-ND	8V, Positive Voltage Regulator	TO-92	.70	.56	.42
L78L08ACZTR	497-1190-1-ND	8V, Positive Voltage Regulator	TO-92	.55	.44	.33
L78L08ACZTR	497-1190-2-ND	8V, Positive Voltage Regulator	TO-92	320.00/2,000		
L78L09ACD13TR	497-1191-1-ND	9V, Positive Voltage Regulator	8-SOIC	.60	.48	.36
L78L09ACUTR	497-1192-1-ND	9V, Positive Voltage Regulator	SOT-89	.53	.42	.32
L78L09ACUTR	497-1192-2-ND	9V, Positive Voltage Regulator	SOT-89	395.00/2,500		
L78L09ACZ	497-1012-ND	9V, Positive Voltage Regulator*	TO-92	.55	.43	.31
L78L09CD13TR	497-1193-1-ND	9V, Positive Voltage Regulator	8-SOIC	.60	.48	.36
L78L09CD13TR	497-1193-2-ND	9V, Positive Voltage Regulator	8-SOIC	450.00/2,500		
L78L12ACD13TR	497-1194-1-ND	12V, Positive Voltage Regulator*	8-SOIC	.50	.40	.30
L78L12ACD13TR	497-1194-2-ND	12V, Positive Voltage Regulator*	8-SOIC	375.00/2,500		
L78L12ACUTR	497-1195-1-ND	12V, Positive Voltage Regulator*	SOT-89	.53	.42	.32
L78L12ACUTR	497-1195-2-ND	12V, Positive Voltage Regulator*	SOT-89	395.00/2,500		
L78L12ACZ	497-2955-5-ND	12V, Positive Voltage Regulator	TO-92	.52	.40	.29
L78L12ACZ-TR	497-1196-1-ND	12V, Positive Voltage Regulator*	TO-92	.80	.64	.48
L78L15ACZ-TR	497-1197-1-ND	15V, Positive Voltage Regulator	TO-92	.50	.40	.30
L78L15ACZ-TR	497-1197-2-ND	15V, Positive Voltage Regulator	TO-92	320.00/2,000		
L78L15CD-TR	497-1198-1-ND	15V, Positive Voltage Regulator	8-SOIC	.50	.40	.30
L78L15CD-TR	497-1198-2-ND	15V, Positive Voltage Regulator	8-SOIC	375.00/2,500		
L78L33ACD13TR	497-1199-1-ND	3.3V, Positive Voltage Regulator*	8-SOIC	.70	.56	.42
L78L33ACD13TR	497-1199-2-ND	3.3V, Positive Voltage Regulator*	8-SOIC	525.00/2,500		
L78L33ACUTR	497-1200-1-ND	3.3V, Positive Voltage Regulator*	SOT-89	.60	.48	.36
L78L33ACUTR	497-1200-2-ND	3.3V, Positive Voltage Regulator	SOT-89	450.00/2,500		
L78M05ABDT-TR	497-1201-1-ND	5V, Precision 500mA Regulator*	D-PAK	.99	.80	.60
L78M05ABDT-TR	497-1201-2-ND	5V, Precision 500mA Regulator*	D-PAK	785.00/2,500		
L78M05ABV	497-1461-5-ND	5V, Precision 500mA Regulator	TO-220	.86	.69	.52
L78M05ACDT-TR	497-1202-1-ND	5V, Precision 500mA Regulator*	D-PAK	.90	.72	.54
L78M05ACDT-TR	497-1202-2-ND	5V, Precision 500mA Regulator*	D-PAK	712.50/2,500		
L78M05CDT-TR	497-1203-1-ND	5V, Positive Voltage Regulator*	D-PAK	.70	.56	.42
L78M05CDT-TR	497-1203-2-ND	5V, Positive Voltage Regulator*	D-PAK	525.00/2,500		
L78M05CV	497-2957-5-ND	5V, Positive Voltage Regulator	TO-220	.77	.62	.46
L78M06CV	497-1462-5-ND	6V, Positive Voltage Regulator	TO-220	.72	.58	.44
L78M08ABDT-TR	497-1205-1-ND	8V, Precision 500mA Regulator*	D-PAK	.99	.80	.60
L78M08ABDT-TR	497-1205-2-ND	8V, Precision 500mA Regulator*	D-PAK	785.00/2,500		
L78M08CDT-TR	497-1206-1-ND	8V, Positive Voltage Regulator*	D-PAK	.90	.72	.54
L78M08CDT-TR	497-1206-2-ND	8V, Positive Voltage Regulator*	D-PAK	712.50/2,500		
L78M08CV	497-1463-5-ND	8V, Positive Voltage Regulator	TO-220	.60	.48	.36
L78M09ABV	497-4616-5-ND	9V, Precision 500mA Regulator*	TO-220	1.05	.91	.70
L78M09ACDT-TR	497-1207-1-ND	9V, Precision 500mA Regulator	D-PAK	1.16	1.01	.78
L78M09CDT-TR	497-1208-1-ND	9V, Positive Voltage Regulator*	D-PAK	.81	.65	.49
L78M09CDT-TR	497-1208-2-ND	9V, Positive Voltage Regulator*	D-PAK	642.50/2,500		
L78M12ABDT-TR	497-1209-1-ND	12V, Precision 500mA Regulator*	D-PAK	.81	.65	.49
L78M12ABDT-TR	497-1209-2-ND	12V, Precision 500mA Regulator*	D-PAK	642.50/2,500		
L78M12ACDT-TR	497-1210-1-ND	12V, Precision 500mA Regulator*	D-PAK	.79	.63	.48
L78M12ACDT-TR	497-1210-2-ND	12V, Precision 500mA Regulator*	D-PAK	622.50/2,500		
L78M12CDT-1	497-4228-5-ND	12V, Precision 500mA Regulator*	I-PAK	1.08	.87	.65
L78M12CDT-TR	497-1211-1-ND	12V, Positive 500mA Regulator*	D-PAK	.79	.63	.48
L78M12CDT-TR	497-1211-2-ND	12V, Positive 500mA Regulator*	D-PAK	622.50/2,500		
L78M12CV	497-1464-5-ND	12V, Positive 500mA Regulator	TO-220	.54	.44	.33
L78M15ABV	497-1465-5-ND	15V, Precision 500mA Regulator	TO-220	.86	.69	.52
L78M15CDT-TR	497-1212-1-ND	15V, Precision 500mA Regulator*	D-PAK	.68	.54	.41
L78M15CDT-TR	497-1212-2-ND	15V, Precision 500mA Regulator*	D-PAK	535.00/2,500		
L78M15CV	497-2958-5-ND	15V, Precision 500mA Regulator	TO-220	.68	.54	.41
L78M24CDT-TR	497-1213-1-ND	24V, Precision 500mA Regulator*	D-PAK	.90	.72	.54
L78M24CDT-TR	497-1213-2-ND	24V, Precision 500mA Regulator*	D-PAK	712.50/2,500		
L78M24CV	497-1467-5-ND	24V, Precision 500mA Regulator*	TO-220	.72	.58	.44
L78S05CV	497-1468-5-ND	5V, Positive 2A Regulator*	TO-220	.81	.65	.49
L78S09CV	497-6038-5-ND	9V, Positive 2A Regulator*	TO-220	1.04	.83	.63
L78S10CV	497-6039-5-ND	10V, Positive 2A Regulator*	TO-220	.68	.54	.41
L78S12CV	497-1469-5-ND	12V, Positive 2A Regulator*	TO-220	.68	.54	.41
L78S15CV	497-6040-5-ND	15V, Positive 2A Regulator*	TO-220	.68	.54	.41
L78S18CV	497-6009-5-ND	18V, Positive 2A Regulator*	TO-220	1.04	.83	.63
L78S24CV	497-1470-5-ND	24V, Positive 2A Regulator*	TO-220	.68	.54	.41
L79L05ABUTR	497-1217-1-ND	-5V, Negative Voltage Regulator*	SOT-89	.63	.50	.38
L79L05ABUTR	497-1217-2-ND	-5V, Negative Voltage Regulator*	SOT-89	470.00/2,500		
L79L05ACD13TR	497-1218-1-ND	-5V, Negative Voltage Regulator	8-SOIC	.55	.44	.33
L79L05ACD13TR	497-1218-2-ND	-5V, Negative Voltage Regulator	8-SOIC	412.50/2,500		
L79L05ACUTR	497-1219-1-ND	-5V, Negative Voltage Regulator*	SOT-89	.77	.62	.46
L79L05ACUTR	497-1219-2-ND	-5V, Negative Voltage Regulator*	SOT-89	605.00/2,500		
L79L05ACZ	497-2960-5-ND	-5V, Negative Voltage Regulator*	TO-92	.45	.36	.27
L79L05ACZ-TR	497-1220-1-ND	-5V, Negative Voltage Regulator*	TO-92	.48	.38	.29
L79L12ACZ	497-1013-ND	-12V, Negative Voltage Regulator*	TO-92	.53	.42	.32
L4892CV	497-3910-ND	9.2V, LDO Voltage Regulator	TO-220	1.92	1.60	1.35
L4925	497-3911-ND	5V, Very LDO Voltage Regulator	Pentawatt	2.82	2.35	1.98
L4925PD	497-3912-5-ND	5V, Very LDO Voltage Reg.	20-Power SOIC	3.33	2.90	2.16
L4925PD013TR	497-1152-1-ND	5V, Very LDO Voltage Regulator	20-Power SOIC	3.33	2.90	2.16
L4925PD013TR	497-1152-2-ND	5V, Very LDO Voltage Regulator	20-Power SOIC	1036.80/600		
L4931ABD15-TR	497-4203-1-ND	1.5V,Very LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00
L4931ABD15-TR	497-4203-2-ND	1.5V, Very LDO Voltage Regulator	8-SOIC	1330.00/2,500		
L4931ABD25-TR	497-1154-1-ND	2.5V, Very LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00
L4931ABD33-TR	497-1155-1-ND	3.3V, Very LDO Voltage Regulator	8-SOIC	1.13	.98	.75
L4931ABD33-TR	497-1155-2-ND	3.3V, Very LDO Voltage Regulator	8-SOIC	997.50/2,500		
L4931ABD50-TR	497-1156-1-ND	5V, Very LDO Voltage Regulator	8-SOIC	1.20	1.04	.80
L4931ABD50-TR	497-1156-2-ND	5V, Very LDO Voltage Regulator	8-SOIC	1065.00/2,500		
L4931ABD120TR	497-1153-1-ND	12V, Very LDO Voltage Regulator	8-SOIC	1.05	.91	.70
L4931ABD120TR	497-1153-2-ND	12V, Very LDO Voltage Regulator	8-SOIC	930.00/2,500		
L4931ABDT25TR	497-1158-1-ND	2.5V, Very LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT33-TR	497-1159-1-ND	3.3V, Very LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT33-TR	497-1159-2-ND	3.3V, Very LDO Voltage Regulator	D-PAK	1097.50/2,500		
L4931ABDT50-TR	497-1160-1-ND	5V, Very LDO Voltage Regulator	D-PAK	1.39	1.21	.93
L4931ABDT50-TR	497-1160-2-ND	5V, Very LDO Voltage Regulator	D-PAK	1230.00/2,500		
L4931ABDT80-TR	497-1161-1-ND	8V, Very LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT80-TR	497-1161-2-ND	8V, Very LDO Voltage Regulator	D-PAK	1429.75/2,500		
L4931ABPT25TR	497-1163-1-ND	2.5V, Very LDO Voltage Regulator	P-PAK	1.84	1.60	1.23
L4931ABPT25TR	497-1163-2-ND	2.5V, Very LDO Voltage Regulator	P-PAK	1630.00/2,500		
L4931ABPT120R	497-1162-1-ND	12V, Very LDO Voltage Regulator	P-PAK	1.61	1.40	1.08
L4931ABPT120R	497-1162-2-ND	12V, Very LDO Voltage Regulator	P-PAK	1430.00/2,500		
L4931ABV33	497-1399-5-ND	3.3V, Very LDO Voltage Regulator	TO-220	1.31	1.14	.88
L4931ABZ25	497-1001-ND	2.5V, Very LDO Voltage Regulator	TO-92	1.24	1.08	.83
L4931CD80-TR	497-4770-1-ND	8V, Very LDO Voltage Regulator	8-SOIC	1.16	1.01	.78
L4931CD80-TR	497-4770-2-ND	8V, Very LDO Voltage Regulator	8-SOIC	1030.00/2,500		
L4931CDT50-TR	497-4204-1-ND	5V, Very LDO Voltage Regulator	D-PAK	1.28	1.11	.85
L4931CDT50-TR	497-4204-2-ND	5V, Very LDO Voltage Regulator	D-PAK	1130.00/2,500		
L4931CV33	497-1401-5-ND	3.3V, Very LDO Voltage Regulator	TO-220	1.20	1.04	.80
L4931CZ50-AP	497-5838-1-ND	5V, Very LDO Voltage Regulator*	TO-92	1.16	1.01	.78
L4931CZ50-AP	497-5838-3-ND	5V, Very LDO Voltage Regulator*	TO-92	841.00/2,000		
L4940D2T5-TR	497-1166-1-ND	5V, Very LDO 1.5A Regulator	D2-PAK	2.07	1.73	1.45
L4940D2T5-TR	497-1166-2-ND	5V, Very LDO 1.5A Regulator	D2-PAK	932.00/1,000		
L4940D2T85-TR	497-1167-1-ND	8.5V, Very LDO 1.5A Regulator	D2-PAK	2.10	1.75	1.47

* ***RoHS Compliant***

(Continued)

STMicroelectronics VOLTAGE REGULATORS *(Continued)* ***RoHS Compliant Parts Available***

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
L4940D2T85-TR	497-1167-2-ND	8.5V, Very LDO 1.5A Regulator	D2-PAK	945.00/1,000		
L4940V5	497-1404-5-ND	5V, Very LDO 1.5A Regulator	TO-220	1.86	1.55	1.31
L4941BDT-TR	497-1168-1-ND	1A Very LDO Regulator	D-PAK	2.10	1.75	1.47
L7805ABD2T-TR	497-1170-1-ND	5V, Precision 1A Regulator*	D2-PAK	.90	.72	.54
L7805ABD2T-TR	497-1170-2-ND	5V, Precision 1A Regulator*	D2-PAK	310.00/1,000		
L7805ABP	497-4226-5-ND	5V, Precision 1A Regulator*	TO-220FP	.99	.80	.60
L7805ABV	497-2947-5-ND	5V, Precision 1A Regulator*	TO-220	.81	.65	.49
L7805ACV	497-1441-5-ND	5V, Precision 1A Regulator*	TO-220	.72	.58	.44
L7805CD2T-TR	497-1171-1-ND	5V, Positive Voltage Regulator*	D2-PAK	.90	.72	.54
L7805CD2T-TR	497-1171-2-ND	5V, Positive Voltage Regulator*	D2-PAK	310.00/1,000		
L7805CP	497-1442-5-ND	5V, Positive Voltage Regulator*	TO-220FP	.81	.65	.49
L7805CT	497-1005-ND	5V, Positive Voltage Regulator*	TO-3	3.11	2.71	2.02
L7805CV	497-1443-5-ND	5V, Positive Voltage Regulator*	TO-220	.60	.48	.36
L7806ABD2T-TR	497-1172-1-ND	6V, Precision 1A Regulator*	D2-PAK	1.13	.90	.63
L7806ABD2T-TR	497-1172-2-ND	6V, Precision 1A Regulator*	D2-PAK	388.00/1,000		
L7806ABV	497-1444-5-ND	6V, Precision 1A Regulator	TO-220	.74	.60	.45
L7806CV	497-1445-5-ND	6V, Positive Voltage Regulator	TO-220	.65	.52	.39
L7808ABD2T-TR	497-1173-1-ND	8V, Precision 1A Regulator	D2-PAK	1.13	.90	.68
L7808ABD2T-TR	497-1173-2-ND	8V, Precision 1A Regulator	D2-PAK	388.00/1,000		
L7808ABV	497-1446-5-ND	8V, Precision 1A Regulator*	TO-220	.77	.62	.46
L7808ACV	497-5884-5-ND	8V, Precision 1A Regulator*	TO-220	.68	.54	.41
L7808CD2T-TR	497-1174-1-ND	8V, Positive Voltage Regulator*	D2-PAK	.90	.72	.54
L7808CD2T-TR	497-1174-2-ND	8V, Positive Voltage Regulator*	D2-PAK	310.00/1,000		
L7808CV	497-2949-5-ND	8V, Positive Voltage Regulator*	TO-220	.70	.56	.42
L7809ABV	497-1447-5-ND	9V, Precision 1A Regulator*	TO-220	.94	.82	.63
L7809CD2T-TR	497-1176-1-ND	9V, Positive Voltage Regulator*	D2-PAK	1.01	.88	.68
L7809CD2T-TR	497-1176-2-ND	9V, Positive Voltage Regulator*	D2-PAK	392.00/1,000		
L7809CV	497-1448-5-ND	9V, Positive Voltage Regulator*	TO-220	.65	.52	.39
L7812ABD2T-TR	497-6037-1-ND	12V, Precision 1A Regulator*	D2-PAK	.98	.85	.65
L7812ABD2T-TR	497-6037-2-ND	12V, Precision 1A Regulator*	D2-PAK	377.00/1,000		
L7812ABV	497-1449-5-ND	12V, Precision 1A Regulator*	TO-220	.81	.65	.49
L7812ACD2T-TR	497-1177-1-ND	12V, Precision 1A Regulator*	D2-PAK	1.04	.83	.63
L7812ACD2T-TR	497-1177-2-ND	12V, Precision 1A Regulator*	D2-PAK	357.00/1,000		
L7812ACV	497-1450-5-ND	12V, Precision 1A Regulator*	TO-220	.77	.62	.46
L7812CD2T-TR	497-1178-1-ND	12V, Positive Voltage Regulator*	D2-PAK	1.08	.87	.65
L7812CD2T-TR	497-1178-2-ND	12V, Positive Voltage Regulator*	D2-PAK	372.00/1,000		
L7812CP	497-1451-5-ND	12V, Positive Voltage Regulator*	TO-220FP	.98	.85	.65
L7812CT	497-1006-ND	12V, Positive Voltage Regulator*	TO-3	3.11	2.71	2.02
L7812CV	497-1452-5-ND	12V, Positive Voltage Regulator*	TO-220	.60	.48	.36
L7815ACV	497-1453-5-ND	15V, Precision 1A Regulator*	TO-220	.77	.62	.46
L7815CD2T-TR	497-1179-1-ND	15V, Positive Voltage Regulator*	D2-PAK	.99	.80	.60
L7815CD2T-TR	497-1179-2-ND	15V, Positive Voltage Regulator*	D2-PAK	341.00/1,000		
L7815CT	497-1007-ND	15V, Positive Voltage Regulator*	TO-3	3.11	2.71	2.02
L7815CV	497-1454-5-ND	15V, Positive Voltage Regulator*	TO-220	.65	.52	.39
L7818CV	497-1456-5-ND	18V, Positive Voltage Regulator*	TO-220	.65	.52	.39
L7824ACV	497-1458-5-ND	24V, Precision 1A Regulator	TO-220	.77	.62	.46
L7824CD2T	497-1459-5-ND	24V, Positive Voltage Regulator*	D2-PAK	1.05	.91	.70
L7824CD2T-TR	497-4775-1-ND	24V, Positive Voltage Regulator*	D2-PAK	1.04	.83	.63
L7824CD2T-TR	497-4775-2-ND	24V, Positive Voltage Regulator*	D2-PAK	357.00/1,000		
L7824CT	497-1008-ND	24V, Positive Voltage Regulator*	TO-3	3.11	2.71	2.02
L7824CV	497-1460-5-ND	24V, Positive Voltage Regulator*	TO-220	.65	.52	.39
L7905ACV	497-1471-5-ND	-5V, Negative 2% Regulator*	TO-220	.68	.54	.41
L7905CD2T-TR	497-1214-1-ND	-5V, Negative Voltage Regulator*	D2-PAK	.99	.80	.60
L7905CD2T-TR	497-1214-2-ND	-5V, Negative Voltage Regulator*	D2-PAK	341.00/1,000		
L7905CV	497-1472-5-ND	-5V, Negative Voltage Regulator*	TO-220	.65	.52	.39
L7906CD2T-TR	497-4230-1-ND	-6V, Negative Voltage Regulator	D2-PAK	1.16	1.01	.78
L7906CV	497-1473-5-ND	-6V, Negative Voltage Regulator	TO-220	.72	.58	.44
L7908ACV	497-4231-5-ND	-8V, Negative Voltage Regulator*	TO-220	1.04	.83	.63
L7908CV	497-1474-5-ND	-8V, Negative Voltage Regulator	TO-220	.68	.54	.41
L7912ACV	497-1475-5-ND	-12V, Negative 2% Regulator*	TO-220	.72	.58	.44
L7912CD2T-TR	497-1215-1-ND	-12V, Negative Voltage Regulator*	D2-PAK	.99	.80	.60
L7912CD2T-TR	497-1215-2-ND	-12V, Negative Voltage Regulator*	D2-PAK	341.00/1,000		
L7912CV	497-1476-5-ND	-12V, Negative Voltage Regulator*	TO-220	.65	.52	.39
L7915CD2T-TR	497-1216-1-ND	-15V, Negative Voltage Regulator	D2-PAK	1.16	1.01	.78
L7915CV	497-1478-5-ND	-15V, Negative Voltage Regulator*	TO-220	.65	.52	.39
L7918CV	497-1479-5-ND	-18V, Negative Voltage Regulator	TO-220	.90	.72	.54
L7924CV	497-1480-5-ND	-24V, Negative Voltage Regulator	TO-220	.68	.54	.45
LD1084D2M33	497-4235-5-ND	3.3V, 5A LDO Positive Voltage Reg.	D2-PAK/A	1.73	1.50	1.15
LD1084D2T-R	497-3411-1-ND	Adj., 5A LDO Positive Voltage Reg.	D2-PAK	2.64	2.20	1.85
LD1084D2T-R	497-3411-2-ND	Adj., 5A LDO Positive Voltage Reg.	D2-PAK	1188.00/1,000		
LD1084V	497-3413-5-ND	Adj., 5A LDO Positive Voltage Reg.	TO-220	2.64	2.20	1.85
LD1084V18	497-3414-5-ND	1.8V, 5A LDO Positive Voltage Reg.	TO-220	2.64	2.20	1.85
LD1084V25	497-3415-5-ND	2.5V, 5A LDO Positive Voltage Reg.	TO-220	2.64	2.20	1.85
LD1084V33	497-3416-5-ND	3.3V, 5A LDO Positive Voltage Reg.	TO-220	2.64	2.20	1.85
LD1084V50	497-3417-5-ND	5V, 5A LDO Positive Voltage Reg.	TO-220	2.64	2.20	1.85
LD1085CDT-R	497-3418-1-ND	Adj., 3A LDO Positive Voltage Reg.	D-PAK	1.95	1.63	1.37
LD1085CDT-R	497-3418-2-ND	Adj., 3A LDO Positive Voltage Reg.	D-PAK	2112.50/2,500		
LD1085D2M-R	497-3419-1-ND	Adj., 3A LDO Positive Voltage Reg.	D2-PAK/A	1.95	1.63	1.37
LD1085D2M-R	497-3419-2-ND	Adj., 3A LDO Positive Voltage Reg.	D2-PAK/A	696.00/1,000		
LD1085D2M18R	497-3421-1-ND	1.8V, 3A LDO Positive Voltage Reg.	D2-PAK/A	1.95	1.63	1.37
LD1085D2M18R	497-3421-2-ND	1.8V, 3A LDO Positive Voltage Reg.	D2-PAK/A	696.00/1,000		
LD1085D2M25R	497-3422-1-ND	2.5V, 3A LDO Positive Voltage Reg.	D2-PAK/A	1.95	1.63	1.37
LD1085D2M33R	497-3423-1-ND	3.3V, 3A LDO Positive Voltage Reg.	D2-PAK/A	1.80	1.56	1.20
LD1085D2M33R	497-3423-2-ND	3.3V, 3A LDO Positive Voltage Reg.	D2-PAK/A	696.00/1,000		
LD1085D2T-R	497-3424-1-ND	Adj., 3A LDO Positive Voltage Reg.	D2-PAK	1.69	1.47	1.13
LD1085D2T-R	497-3424-2-ND	Adj., 3A LDO Positive Voltage Reg.	D2-PAK	653.00/1,000		
LD1085D2T18R	497-3427-1-ND	1.8V, 3A LDO Positive Voltage Reg.	D2-PAK	1.95	1.63	1.37
LD1085D2T18R	497-3427-2-ND	1.8V, 3A LDO Positive Voltage Reg.	D2-PAK	878.00/1,000		
LD1085D2T25R	497-1221-1-ND	2.5V, 3A LDO Positive Voltage Reg.	D2-PAK	1.95	1.63	1.37
LD1085D2T33R	497-1222-1-ND	3.3V, 3A LDO Positive Voltage Reg.	D2-PAK	1.35	1.13	.95
LD1085D2T33R	497-1222-2-ND	3.3V, 3A LDO Positive Voltage Reg.	D2-PAK	653.00/1,000		
LD1085DT-R	497-3428-1-ND	Adj., 3A LDO Positive Voltage Reg.	D-PAK	1.95	1.63	1.37
LD1085DT-R	497-3428-2-ND	Adj., 3A LDO Positive Voltage Reg.	D-PAK	2112.50/2,500		
LD1085DT15R	497-3429-1-ND	1.5V, 3A LDO Positive Voltage Reg.	D-PAK	1.95	1.63	1.37
LD1085DT15R	497-3429-2-ND	1.5V, 3A LDO Positive Voltage Reg.	D-PAK	2112.50/2,500		
LD1085DT18R	497-3430-1-ND	1.8V, 3A LDO Positive Voltage Reg.	D-PAK	1.77	1.48	1.24
LD1085DT18R	497-3430-2-ND	1.8V, 3A LDO Positive Voltage Reg.	D-PAK	1917.50/2,500		
LD1085DT25R	497-3431-1-ND	2.5V, 3A LDO Positive Voltage Reg.	D-PAK	1.77	1.48	1.24
LD1085DT25R	497-3431-2-ND	2.5V, 3A LDO Positive Voltage Reg.	D-PAK	1917.50/2,500		
LD1085V	497-1482-5-ND	Adj., 3A LDO Positive Voltage Reg.	TO-220	1.50	1.25	1.05
LD1085V18	497-3433-5-ND	1.8V, 3A LDO Positive Voltage Reg.	TO-220	1.95	1.63	1.37
LD1085V25	497-3434-5-ND	2.5V, 3A LDO Positive Voltage Reg.	TO-220	1.95	1.63	1.37
LD1085V50	497-3436-5-ND	5V, 3A LDO Positive Voltage Reg.	TO-220	1.50	1.25	1.05
LD1086D2M18TR	497-3437-1-ND	1.8V, 1.5A LDO Positive Voltage Regulator	D2-PAK/A	1.80	1.56	1.20

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
LD1086D2M18TR	497-3437-2-ND	1.8V, 1.5A LDO Positive Volt. Reg.	D2-PAK/A	696.00/1,000		
LD1086D2M33TR	497-1223-1-ND	3.3V, 1.5A LDO Positive Volt. Reg.	D2-PAK/A	1.80	1.56	1.20
LD1086D2MTR	497-3439-1-ND	Adj., 1.5A LDO Positive Volt. Reg.	D2-PAK/A	1.80	1.56	1.20
LD1086D2MTR	497-3439-2-ND	Adj., 1.5A LDO Positive Volt. Reg.	D2-PAK/A	508.00/1,000		
LD1086D2T12TR	497-3440-1-ND	12V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.65	1.43	1.10
LD1086D2T12TR	497-3440-2-ND	12V, 1.5A LDO Positive Voltage Reg.	D2-PAK	638.00/1,000		
LD1086D2T15R	497-3441-1-ND	1.5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.80	1.56	1.20
LD1086D2T15R	497-3441-2-ND	1.5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	638.00/1,000		
LD1086D2T18TR	497-3442-1-ND	1.8V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.80	1.56	1.20
LD1086D2T18TR	497-3442-2-ND	1.8V, 1.5A LDO Positive Voltage Reg.	D2-PAK	638.00/1,000		
LD1086D2T25TR	497-3443-1-ND	2.5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.80	1.56	1.20
LD1086D2T25TR	497-3443-2-ND	2.5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	638.00/1,000		
LD1086D2T33TR	497-1224-1-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.46	1.27	.98
LD1086D2T33TR	497-1224-2-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D2-PAK	566.00/1,000		
LD1086D2TTR	497-3566-1-ND	Adj., 1.5A LDO Positive Voltage Reg.	D2-PAK	1.80	1.56	1.20
LD1086D2TTR	497-3566-2-ND	Adj., 1.5A LDO Positive Voltage Reg.	D2-PAK	638.00/1,000		
LD1086DT18TR	497-3444-1-ND	1.8V, 1.5A LDO Positive Voltage Reg.	D-PAK	1.58	1.37	1.05
LD1086DT25TR	497-3445-1-ND	2.5V, 1.5A LDO Positive Voltage Reg.	D-PAK	1.58	1.37	1.05
LD1086DT25TR	497-3445-2-ND	2.5V, 1.5A LDO Positive Voltage Reg.	D-PAK	1397.50/2,500		
LD1086DT33TR	497-3446-1-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D-PAK	1.58	1.37	1.05
LD1086DT33TR	497-3446-2-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D-PAK	1397.50/2,500		
LD1086DT50TR	497-4239-1-ND	5V, 1.5A LDO Positive Voltage Reg.	D-PAK	1.58	1.37	1.05
LD1086DT50TR	497-4239-2-ND	5V, 1.5A LDO Positive Voltage Reg.	D-PAK	1397.50/2,500		
LD1086DTTR	497-6222-1-ND	Adj., 1.5A LDO Positive Voltage Reg.*	D-PAK	1.77	1.48	1.24
LD1086DTTR	497-6222-2-ND	Adj., 1.5A LDO Positive Voltage Reg.*	D-PAK	1529.50/2,500		
LD1086V	497-3447-5-ND	Adj., 1.5A LDO Positive Voltage Reg.	TO-220	1.43	1.24	.95
LD1086V12	497-3448-5-ND	12V, 1.5A LDO Positive Voltage Reg.	TO-220	1.80	1.56	1.20
LD1086V18	497-3449-5-ND	1.8V, 1.5A LDO Positive Voltage Reg.	TO-220	1.43	1.24	.95
LD1086V33	497-3450-5-ND	3.3V, 1.5A LDO Positive Voltage Reg.	TO-220	1.43	1.24	.95
LD1086V50	497-3451-5-ND	5V, 1.5A LDO Positive Voltage Reg.	TO-220	1.80	1.56	1.20
LD1117AD2MTR	497-5797-1-ND	Adj., 1A LDO Positive Voltage Reg.	D^{2}-PAK	1.50	1.30	1.00
LD1117AD2MTR	497-5797-2-ND	Adj., 1A LDO Positive Voltage Reg	D^{2}-PAK	580.00/1,000		
LD1117ADT-TR	497-3452-1-ND	Adj., 1A LDO Positive Voltage Reg.	D-PAK	1.95	1.69	1.30
LD1117ADT-TR	497-3452-2-ND	Adj., 1A LDO Positive Voltage Reg.	D-PAK	820.00/2,500		
LD1117ADT12TR	497-6011-1-ND	1.2V, 1A LDO Positive Voltage Reg.*	D-PAK	1.04	.83	.63
LD1117ADT12TR	497-6011-2-ND	1.2V, 1A LDO Positive Voltage Reg.*	D-PAK	820.00/2,500		
LD1117ADT18TR	497-3453-1-ND	1.8V, 1A LDO Positive Voltage Reg.	D-PAK	1.04	.83	.63
LD1117ADT18TR	497-3453-2-ND	1.8V, 1A LDO Positive Voltage Reg.	D-PAK	820.00/2,500		
LD1117ADT25TR	497-3454-1-ND	2.5V, 1A LDO Positive Voltage Reg.	D-PAK	1.04	.83	.63
LD1117ADT25TR	497-3454-2-ND	2.5V, 1A LDO Positive Voltage Reg.	D-PAK	820.00/2,500		
LD1117ADT33TR	497-3455-1-ND	3.3V, 1A LDO Positive Voltage Reg.	D-PAK	1.04	.83	.63
LD1117ADT33TR	497-3455-2-ND	3.3V, 1A LDO Positive Voltage Reg.	D-PAK	820.00/2,500		
LD1117AS18TR	497-1226-1-ND	1.8V, LDO Positive Voltage Regulator	SOT-223	.95	.76	.57
LD1117AS18TR	497-1226-2-ND	1.8V, LDO Positive Voltage Regulator	SOT-223	747.50/2,500		
LD1117AS25TR	497-1227-1-ND	2.5V, LDO Positive Voltage Regulator	SOT-223	1.65	1.38	1.16
LD1117AS25TR	497-1227-2-ND	2.5V, LDO Positive Voltage Regulator	SOT-223	1787.50/2,500		
LD1117AS33TR	497-1228-1-ND	3.3V, LDO Positive Voltage Regulator.	SOT-223	.95	.76	.57
LD1117AS33TR	497-1228-2-ND	3.3V, LDO Positive Voltage Regulator	SOT-223	747.50/2,500		
LD1117ASTR	497-1229-1-ND	1.25V to 15V LDO Positive Volt. Reg.	SOT-223	1.65	1.38	1.16
LD1117ASTR	497-1229-2-ND	1.25V to 15V LDO Positive Volt. Reg.	SOT-223	605.63/2,500		
LD1117AV	497-3456-5-ND	Adj., 1A LDO Positive Voltage Reg.	TO-220	1.05	.91	.70
LD1117AV18	497-1483-5-ND	1.8V, LDO Positive Voltage Reg.	TO-220	1.65	1.38	1.16
LD1117AV25	497-1484-5-ND	2.5V, LDO Positive Voltage Reg.	TO-220	1.65	1.38	1.16
LD1117AV33	497-1485-5-ND	3.3V, LDO Positive Voltage Reg.	TO-220	.90	.72	.54
LD1117D33CTR	497-1230-1-ND	3.3V, LDO Positive Voltage Reg.	8-SOIC	.77	.56	.43
LD1117D33CTR	497-1230-2-ND	3.3V, LDO Positive Voltage Reg.	8-SOIC	525.00/2,500		
LD1117DT12TR	497-1231-1-ND	1.2V, LDO Positive Voltage Reg.	D-PAK	.77	.62	.46
LD1117DT12TR	497-1231-2-ND	1.2V, LDO Positive Voltage Reg.	D-PAK	605.00/2,500		
LD1117DT18TR	497-1232-1-ND	1.8V, LDO Positive Voltage Reg.	D-PAK	.77	.56	.43
LD1117DT18TR	497-1232-2-ND	1.8V, LDO Positive Voltage Reg.	D-PAK	605.00/2,500		
LD1117DT25CTR	497-1233-1-ND	2.5V, LDO Positive Voltage Reg.	D-PAK	.70	.56	.42
LD1117DT25CTR	497-1233-2-ND	2.5V, LDO Positive Voltage Reg.	D-PAK	525.00/2,500		
LD1117DT28TR	497-1234-1-ND	2.85V, LDO Positive Voltage Reg.	D-PAK	2.34	1.69	1.30
LD1117DT28TR	497-1234-2-ND	2.85V, LDO Positive Voltage Reg.	D-PAK	1820.00/2,500		
LD1117DT30	497-1490-5-ND	3V, LDO Positive Voltage Reg.	D-PAK	.77	.56	.43
LD1117DT33TR	497-1236-1-ND	3.3V, LDO Positive Voltage Reg.	D-PAK	.70	.56	.42
LD1117DT33TR	497-1236-2-ND	3.3V, LDO Positive Voltage Reg.	D-PAK	525.00/2,500		
LD1117DT50CTR	497-1237-1-ND	5V, LDO Positive Voltage Reg.	D-PAK	.70	.56	.42
LD1117DT50CTR	497-1237-2-ND	5V, LDO Positive Voltage Reg.	D-PAK	525.00/2,500		
LD1117DT50TR	497-1238-1-ND	5V, LDO Positive Voltage Reg.	D-PAK	.70	.56	.42
LD1117DT50TR	497-1238-2-ND	5V, LDO Positive Voltage Reg.	D-PAK	525.00/2,500		
LD1117DTTR	497-1239-1-ND	1.25V to 15V, LDO Positive Volt. Reg.	D-PAK	.68	.54	.41
LD1117DTTR	497-1239-2-ND	1.25V to 15V, LDO Positive Volt. Reg.	D-PAK	535.00/2,500		
LD1117S12TR	497-4240-1-ND	1.2V, LDO Positive Voltage Reg.	SOT-223	.77	.62	.46
LD1117S12TR	497-4240-2-ND	1.2V, LDO Positive Voltage Reg.	SOT-223	605.00/2,500		
LD1117S25CTR	497-1240-1-ND	2.5V, LDO Positive Voltage Reg.	SOT-223	.63	.51	.38
LD1117S25CTR	497-1240-2-ND	2.5V, LDO Positive Voltage Reg.	SOT-223	500.00/2,500		
LD1117S33CTR	497-1241-1-ND	3.3V, LDO Positive Voltage Reg.	SOT-223	.60	.48	.36
LD1117S33CTR	497-1241-2-ND	3.3V, LDO Positive Voltage Reg.	SOT-223	450.00/2,500		
LD1117S33TR	497-1242-1-ND	3.3V, LDO Positive Voltage Reg.	SOT-223	.70	.56	.42
LD1117S33TR	497-1242-2-ND	3.3V, LDO Positive Voltage Reg.	SOT-223	525.00/2,500		
LD1117S50CTR	497-1243-1-ND	5V, LDO Positive Voltage Reg.	SOT-223	.70	.56	.42
LD1117S50CTR	497-1243-2-ND	5V, LDO Positive Voltage Reg.	SOT-223	525.00/2,500		
LD1117SC-R	497-4241-1-ND	Adj., LDO Positive Voltage Reg.	SOT-223	.99	.80	.60
LD1117STR	497-1244-1-ND	1.25V to 15V, LDO Pos. Volt. Reg.	SOT-223	.70	.56	.42
LD1117STR	497-1244-2-ND	1.25V to 15V, LDO Positive Voltage Regulator	SOT-223	525.00/2,500		
LD1117V18	497-3457-5-ND	1.8V, LDO Positive Voltage Reg.	TO-220	.70	.56	.42
LD1117V25	497-3458-5-ND	2.5V, LDO Positive Voltage Reg.	TO-220	1.65	1.43	1.10
LD1117V25C	497-3459-5-ND	2.5V, LDO Positive Voltage Reg.	TO-220	1.50	1.30	1.00
LD1117V33	497-1491-5-ND	3.3V, LDO Positive Voltage Reg.	TO-220	.70	.56	.42
LD1117V33C	497-1492-5-ND	3.3V, LDO Positive Voltage Reg.	TO-220	.77	.56	.43
LD1580P2T-R	497-5842-1-ND	Adj., Very LDO Positive Volt. Reg.*	P2-PAK	1.95	1.63	1.37
LD1580P2T-R	497-5842-2-ND	Adj., Very LDO Positive Volt. Reg.*	P2-PAK	878.00/1,000		
LD1585CD2M-R	497-3460-1-ND	Adj., 5A LDO Positive Voltage Reg.	D2-PAK/A	1.95	1.63	1.37
LD1585CD2T18R	497-3465-1-ND	1.8V, 5A LDO Positive Voltage Reg.	D2-PAK	1.95	1.63	1.37
LD1585CV	497-3466-5-ND	Adj., 5A LDO Positive Voltage Reg.	TO-220	1.80	1.50	1.26
LD1585CV33	497-3467-5-ND	3.3V, 5A LDO Positive Voltage Reg.	TO-220	1.80	1.50	1.26
LD1585CV50	497-4809-5-ND	5V, 5A LDO Positive Voltage Regulator	TO-220	1.65	1.38	1.16
LD2979M33TR	497-1512-1-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	1.08	.87	.65
LD2979M33TR	497-1512-2-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	897.75/3,000		
LD2979M50TR	497-1513-1-ND	5V, LDO Voltage Regulator	SOT-23-5L	.95	.76	.57
LD2979M50TR	497-1513-2-ND	5V, LDO Voltage Regulator	SOT-23-5L	897.00/3,000		
LD2980ABM25TR	497-1515-1-ND	2.5V, LDO Voltage Regulator	SOT-23-5L	1.50	1.25	1.05
LD2980ABM25TR	497-1515-2-ND	2.5V, LDO Voltage Regulator	SOT-23-5L	1950.00/3,000		

***** RoHS Compliant**

(Continued)

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
LD2980ABM30TR	497-1516-1-ND	3V, LDO Voltage Regulator	SOT-23-5L	1.43	1.24	.95
LD2980ABM30TR	497-1516-2-ND	3V, LDO Voltage Regulator	SOT-23-5L	1516.20/3,000		
LD2980ABM33TR	497-1517-1-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	1.43	1.24	.95
LD2980ABM33TR	497-1517-2-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	942.00/3,000		
LD2980ABM50TR	497-1518-1-ND	5V, LDO Voltage Regulator	SOT-23-5L	1.56	1.30	1.10
LD2980ABM50TR	497-1518-2-ND	5V, LDO Voltage Regulator	SOT-23-5L	942.00/3,000		
LD2980CM18TR	497-3477-1-ND	1.8V, 50mA LDO Volt. Regulator	SOT-23-5L	1.46	1.27	.98
LD2980CM18TR	497-3477-2-ND	1.8V, 50mA LDO Volt. Regulator	SOT-23-5L	1557.00/3,000		
LD2980CM25TR	497-3478-1-ND	2.5V, 50mA LDO Voltage Regulator	SOT-23-5L	1.31	1.14	.88
LD2980CM25TR	497-3478-2-ND	2.5V, 50mA LDO Voltage Regulator	SOT-23-5L	1398.00/3,000		
LD2980CM33TR	497-3479-1-ND	3.3V, 50mA LDO Volt. Regulator	SOT-23-5L	1.28	1.11	.85
LD2980CM33TR	497-3479-2-ND	3.3V, 50mA LDO Volt. Regulator	SOT-23-5L	726.00/3,000		
LD2980CU18TR	497-3480-1-ND	1.8V, 50mA LDO Voltage Regulator	SOT-89	1.28	1.11	.85
LD2980CU18TR	497-3480-2-ND	1.8V, 50mA LDO Voltage Regulator	SOT-89	1130.50/2,500		
LD2980CU50TR	497-3481-1-ND	5V, 50mA LDO Voltage Regulator	SOT-89	1.73	1.50	1.15
LD2980CU50TR	497-3481-2-ND	5V, 50mA LDO Voltage Regulator	SOT-89	1530.00/2,500		
LD2981ABM25TR	497-1520-1-ND	2.5V, LDO Voltage Regulator	SOT-23-5L	1.50	1.25	1.05
LD2981ABM25TR	497-1520-2-ND	2.5V, LDO Voltage Regulator	SOT-23-5L	1950.00/3,000		
LD2981ABM33TR	497-1521-1-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	1.58	1.37	1.05
LD2981ABM33TR	497-1521-2-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	997.50/3,000		
LD2981ABM50TR	497-1522-1-ND	5V, LDO Voltage Regulator	SOT-23-5L	1.68	1.40	1.18
LD2981ABM50TR	497-1522-2-ND	5V, LDO Voltage Regulator	SOT-23-5L	999.00/3,000		
LD2981ABU33TR	497-1524-1-ND	3.3V, LDO Voltage Regulator	SOT-89	1.50	1.25	1.05
LD2981ABU33TR	497-1524-2-ND	3.3V, LDO Voltage Regulator	SOT-89	897.75/2,500		
LD2981ABU50TR	497-1525-1-ND	5V, LDO Voltage Regulator	SOT-89	1.01	.88	.68
LD2981ABU50TR	497-1525-2-ND	5V, LDO Voltage Regulator	SOT-89	897.50/2,500		
LD2981CM18TR	497-3482-1-ND	1.8V, 100mA LDO Volt. Regulator	SOT-23-5L	1.43	1.24	.95
LD2981CM18TR	497-3482-2-ND	1.8V, 100mA LDO Volt. Regulator	SOT-23-5L	1515.00/3,000		
LD2981CU33TR	497-3483-1-ND	3.3V, 100mA LDO Voltage Regulator	SOT-89	1.01	.88	.68
LD2981CU33TR	497-3483-2-ND	3.3V, 100mA LDO Voltage Regulator	SOT-89	897.50/2,500		
LD2981CU50TR	497-3484-1-ND	5V, 100mA LDO Voltage Regulator	SOT-89	1.01	.88	.68
LD2981CU50TR	497-3484-2-ND	5V, 100mA LDO Voltage Regulator	SOT-89	897.50/2,500		
LD2982AM15R	497-3485-1-ND	1.5V, 50mA LDO Voltage Reg.	SOT-23-5L	1.61	1.40	1.08
LD2982AM15R	497-3485-2-ND	1.5V, 50mA LDO Voltage Reg.	SOT-23-5L	1715.70/3,000		
LD2982AM18R	497-4253-1-ND	1.8V, LDO Voltage Regulator	SOT-23-5L	.98	.85	.65
LD2982AM18R	497-4253-2-ND	1.8V, LDO Voltage Regulator	SOT-23-5L	1038.00/3,000		
LD2982AM25R	497-3486-1-ND	2.5V, 50mA LDO Voltage Reg.	SOT-23-5L	1.61	1.40	1.08
LD2982AM25R	497-3486-2-ND	2.5V, 50mA LDO Voltage Reg.	SOT-23-5L	1715.70/3,000		
LD2982AM50R	497-3488-1-ND	5V, 50mA LDO Voltage Regulator	SOT-23-5L	1.58	1.37	1.05
LD2982AM50R	497-3488-2-ND	5V, 50mA LDO Voltage Regulator	SOT-23-5L	1675.80/3,000		
LD2982BM50R	497-3490-1-ND	5V, 50mA LDO Voltage Regulator	SOT-23-5L	1.58	1.37	1.05
LD2982BM50R	497-3490-2-ND	5V, 50mA LDO Voltage Regulator	SOT-23-5L	1677.00/3,000		
LD2985AM15R	497-3491-1-ND	1.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM15R	497-3491-2-ND	1.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1797.00/3,000		
LD2985AM18R	497-3492-1-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM18R	497-3492-2-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1795.50/3,000		
LD2985AM25R	497-3493-1-ND	2.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM25R	497-3493-2-ND	2.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1797.00/3,000		
LD2985AM33R	497-3494-1-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM33R	497-3494-2-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	1797.00/3,000		
LD2985AM50R	497-3495-1-ND	5V, 150mA LDO Voltage Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM50R	497-3495-2-ND	5V, 150mA LDO Voltage Regulator	SOT-23-5L	1797.00/3,000		
LD2985BM15R	497-3496-1-ND	1.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM15R	497-3496-2-ND	1.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1795.50/3,000		
LD2985BM18R	497-3497-1-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM18R	497-3497-2-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1797.00/3,000		
LD2985BM25R	497-3498-1-ND	2.5V, 150mA LDO Volt. Regulator	SOT-23-5L	.94	.82	.63
LD2985BM25R	497-3498-2-ND	2.5V, 150mA LDO Volt. Regulator	SOT-23-5L	999.00/3,000		
LD2985BM27R	497-4940-1-ND	2.7V, 150mA LDO Voltage Reg.	SOT-23-5L	1.01	.88	.68
LD2985BM27R	497-4940-2-ND	2.7V, 150mA LDO Voltage Reg.	SOT-23-5L	1077.00/3,000		
LD2985BM33R	497-3499-1-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM33R	497-3499-2-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	999.00/3,000		
LD2985BM50R	497-3500-1-ND	5V, 150mA LDO Voltage Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM50R	497-3500-2-ND	5V, 150mA LDO Voltage Regulator	SOT-23-5L	1795.50/3,000		
LD3985G18R	497-3501-1-ND	1.8V, 150mA LDO Volt. Regulator	TSOT-23-5L	1.46	1.27	.98
LD3985G18R	497-3501-2-ND	1.8V, 150mA LDO Volt. Regulator	TSOT-23-5L	1557.00/3,000		
LD3985G25R	497-3502-1-ND	2.5V, 150mA LDO Volt. Regulator	TSOT-23-5L	1.46	1.27	.98
LD3985G25R	497-3502-2-ND	2.5V, 150mA LDO Volt. Regulator	TSOT-23-5L	1557.00/3,000		
LD3985J18R	497-1526-1-ND	1.8V, LDO BiCMOS Voltage Reg.	Flip-Chip	1.46	1.27	.98
LD3985J33R	497-1527-1-ND	3.3V, LDO BiCMOS Voltage Reg.	Flip-Chip	1.46	1.27	.98
LD3985M18R	497-3503-1-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1.46	1.27	.98
LD3985M18R	497-3503-2-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1556.10/3,000		
LD3985M25R	497-4254-1-ND	2.5V, LDO BiCMOS Voltage Reg.	SOT-23-5L	.95	.76	.57
LD3985M25R	497-4254-2-ND	2.5V, LDO BiCMOS Voltage Reg.	SOT-23-5L	771.00/3,000		
LD3985M30R	497-6154-1-ND	3.0V, 150mA LDO Voltage Reg.*	SOT-23-5L	.68	.59	.45
LD3985M30R	497-6154-2-ND	3.0V, 150mA LDO Voltage Reg.*	SOT-23-5L	771.00/3,000		
LD3985M33R	497-3504-1-ND	3.3V, 150mA LDO Voltage Reg.	SOT-23-5L	.81	.65	.49
LD3985M33R	497-3504-2-ND	3.3V, 150mA LDO Voltage Reg.	SOT-23-5L	771.00/3,000		
LD29080DT25R	497-4242-1-ND	2.5V, 800mA LDO Regulator	D-PAK	1.28	1.11	.85
LD29080DT25R	497-4242-2-ND	2.5V, 800mA LDO Regulator	D-PAK	1130.00/2,500		
LD29080DT33R	497-4243-1-ND	3.3V, 800mA LDO Regulator	D-PAK	1.28	1.11	.85
LD29080DT33R	497-4243-2-ND	3.3V, 800mA LDO Regulator	D-PAK	1130.00/2,500		
LD29080DT90R	497-4244-1-ND	9V, 800mA LDO Regulator	D-PAK	1.84	1.60	1.23
LD29080DT90R	497-4244-2-ND	9V, 800mA LDO Regulator	D-PAK	1629.25/2,500		
LD29080PT15R	497-4245-1-ND	1.5V, 800mA LDO Regulator	P-PAK	1.84	1.60	1.23
LD29080PT15R	497-4245-2-ND	1.5V, 800mA LDO Regulator	P-PAK	1130.00/2,500		
LD29080PT25R	497-4648-1-ND	2.5V, 800mA LDO Volt. Regulator	P-PAK	1.43	1.24	.95
LD29080PT25R	497-4648-2-ND	2.5V, 800mA LDO Volt. Regulator	P-PAK	1130.00/2,500		
LD29080PT33R	497-4246-1-ND	3.3V, 800mA LDO Regulator	P-PAK	1.43	1.24	.95
LD29080PT33R	497-4246-2-ND	3.3V, 800mA LDO Regulator	P-PAK	1130.00/2,500		
LD29080PTR	497-4247-1-ND	Adj., 800mA LDO Regulator	P-PAK	1.69	1.47	1.13
LD29080PTR	497-4247-2-ND	Adj., 800mA LDO Regulator	P-PAK	1362.50/2,500		
LD29150DT15R	497-1493-1-ND	1.5V, 1.5A LDO Voltage Regulator	D-PAK	2.10	1.75	1.47
LD29150DT15R	497-1493-2-ND	1.5V, 1.5A LDO Voltage Regulator	D-PAK	2275.00/2,500		
LD29150DT18R	497-1494-1-ND	1.8V, 1.5A LDO Voltage Regulator	D-PAK	1.08	.87	.65
LD29150DT18R	497-1494-2-ND	1.8V, 1.5A LDO Voltage Regulator	D-PAK	855.00/2,500		
LD29150DT25R	497-1495-1-ND	2.5V, 1.5A LDO Voltage Regulator	D-PAK	1.50	1.30	1.00
LD29150DT25R	497-1495-2-ND	2.5V, 1.5A LDO Voltage Regulator	D-PAK	1330.00/2,500		
LD29150DT33R	497-1496-1-ND	3.3V, 1.5A LDO Voltage Regulator	D-PAK	2.10	1.75	1.47
LD29150DT33R	497-1496-2-ND	3.3V, 1.5A LDO Voltage Regulator	D-PAK	855.00/2,500		
LD29150DT50R	497-3468-1-ND	5V, 1.5A LDO Voltage Regulator	D-PAK	1.08	.87	.65
LD29150DT50R	497-3468-2-ND	5V, 1.5A LDO Voltage Regulator	D-PAK	855.00/2,500		
LD29150PT25R	497-1497-1-ND	2.5V, 1.5A LDO Voltage Regulator	P-PAK	2.31	1.93	1.62
LD29150PT25R	497-1497-2-ND	2.5V, 1.5A LDO Voltage Regulator	P-PAK	2502.50/2,500		
LD29150PT33R	497-3469-1-ND	3.3V, 1.5A LDO Voltage Regulator	P-PAK	1.31	1.14	.88
LD29150PT33R	497-3469-2-ND	3.3V, 1.5A LDO Voltage Regulator	P-PAK	1163.75/2,500		
LD29150PT50R	497-4249-1-ND	5V, 1.5A LDO Voltage Regulator	P-PAK	1.50	1.30	1.00
LD29150PT50R	497-4249-2-ND	5V, 1.5A LDO Voltage Regulator	P-PAK	1330.00/2,500		
LD29150PTR	497-4250-1-ND	Adj., 1.5A LDO Voltage Regulator	P-PAK	1.58	1.37	1.05
LD29150PTR	497-4250-2-ND	Adj., 1.5A LDO Voltage Regulator	P-PAK	1397.50/2,500		
LD29150V25	497-3470-5-ND	2.5V, 1.5A LDO Voltage Regulator	TO-220	1.65	1.38	1.16
LD29300D2M15R	497-1499-1-ND	1.5V, 3A LDO Voltage Regulator	D2-PAK/A	2.79	2.33	1.96
LD29300D2M18R	497-1500-1-ND	1.8V, 3A LDO Voltage Regulator	D2-PAK/A	2.79	2.33	1.96
LD29300D2M25R	497-1501-1-ND	2.5V, 3A LDO Voltage Regulator	D2-PAK/A	2.55	2.13	1.79
LD29300D2T15R	497-1503-1-ND	1.5V, 3A LDO Voltage Regulator	D2-PAK	2.79	2.33	1.96
LD29300D2T18R	497-1504-1-ND	1.8V, 3A LDO Voltage Regulator	D2-PAK	1.53	1.28	1.08
LD29300D2T18R	497-1504-2-ND	1.8V, 3A LDO Voltage Regulator	D2-PAK	688.50/1,000		
LD29300D2T25R	497-1505-1-ND	2.5V, 3A LDO Voltage Regulator	D^{2}-PAK	2.55	2.13	1.79
LD29300D2T80	497-4251-5-ND	8V, 3A LDO Voltage Regulator	D2-PAK	2.28	1.90	1.60
LD29300P2M50R	497-3476-1-ND	5V, 3A LDO Voltage Regulator	P2-PAK/A	2.28	1.90	1.60
LD29300P2M50R	497-3476-2-ND	5V, 3A LDO Voltage Regulator	P2-PAK/A	1026.00/1,000		
LD29300V15	497-1507-5-ND	1.5V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD29300V50	497-4252-5-ND	5V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD39080DT12-R	497-6012-1-ND	1.22V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.73	1.50	1.15
LD39080DT12-R	497-6012-2-ND	1.22V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1330.00/2,500		
LD39080DT18-R	497-6013-1-ND	1.8V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.73	1.50	1.15
LD39080DT18-R	497-6013-2-ND	1.8V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1330.00/2,500		
LD39080DT25-R	497-6014-1-ND	2.5V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.73	1.50	1.15
LD39080DT25-R	497-6014-2-ND	2.5V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1330.00/2,500		
LD39080DT33-R	497-6015-1-ND	3.3V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.73	1.50	1.15
LD39080DT33-R	497-6015-2-ND	3.3V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1330.00/2,500		
LD39080PT18-R	497-6016-1-ND	1.8V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1.73	1.50	1.15
LD39080PT18-R	497-6016-2-ND	1.8V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1330.00/2,500		
LD39080PT25-R	497-6017-1-ND	2.5V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1.73	1.50	1.15
LD39080PT25-R	497-6017-2-ND	2.5V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1330.00/2,500		
LD39080PT33-R	497-6018-1-ND	3.3V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1.73	1.50	1.15
LD39080PT33-R	497-6018-2-ND	3.3V, 0.8A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1330.00/2,500		
LD39150DT12-R	497-6141-1-ND	1.22V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.69	1.47	1.13
LD39150DT12-R	497-6141-2-ND	1.22V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1497.50/2,500		
LD39150DT25-R	497-6143-1-ND	2.5V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.69	1.47	1.13
LD39150DT25-R	497-6143-2-ND	2.5V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1497.50/2,500		
LD39150PT12-R	497-6142-1-ND	1.8V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	P-PAK-5	1.69	1.47	1.13
LD39150PT12-R	497-6142-2-ND	1.8V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	P-PAK-5	1497.50/2,500		
LD39150PT33-R	497-6144-1-ND	3.3V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	P-PAK-5	1.69	1.47	1.13
LD39150PT33-R	497-6144-2-ND	3.3V, 1.5A Ultra LDO BiCMOS Voltage Regulator*	P-PAK-5	1497.50/2,500		
LD39300DT12-R	497-6148-1-ND	1.22V, 3A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.73	1.50	1.15
LD39300DT12-R	497-6148-2-ND	1.22V, 3A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1330.00/2,500		
LD39300DT25-R	497-6150-1-ND	2.5V, 3A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1.73	1.50	1.15
LD39300DT25-R	497-6150-2-ND	2.5V, 3A Ultra LDO BiCMOS Voltage Regulator*	D-PAK	1330.00/2,500		
LD39300PT-R	497-5798-1-ND	Adjustable, 3A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1.89	1.58	1.33
LD39300PT-R	497-5798-2-ND	Adjustable, 3A Ultra LDO BiCMOS Voltage Regulator*	P-PAK	1722.50/2,500		
LD39300PT18-R	497-6149-1-ND	1.8V, 3A Ultra LDO BiCMOS Voltage Regulator*	P-PAK-5	1.89	1.58	1.33
LD39300PT18-R	497-6149-2-ND	1.8V, 3A Ultra LDO BiCMOS Voltage Regulator*	P-PAK-5	1722.50/2,500		
LD39300PT33-R	497-6151-1-ND	3.3V, 3A Ultra LDO BiCMOS Voltage Regulator*	P-PAK-5	1.89	1.58	1.33
LD39300PT33-R	497-6151-2-ND	3.3V, 3A Ultra LDO BiCMOS Voltage Regulator*	P-PAK-5	1722.50/2,500		
LD49300PT08-R	497-6155-1-ND	Adjustable, 3A Very LDO Voltage Regulator*	P-PAK-5	2.07	1.73	1.45
LD49300PT08-R	497-6155-2-ND	Adjustable, 3A Very LDO Voltage Regulator*	P-PAK-5	1787.50/2,500		
LDR2533BPT-R	497-3505-1-ND	2.5V to 3.3V LDO Dual Voltage Regulator	P-PAK	1.62	1.35	1.14
LDS3985M18R	497-6146-1-ND	1.8V, 300mA LDO Voltage Reg.*	SOT-23-5	.90	.72	.54
LDS3985M18R	497-6146-2-ND	1.8V, 300mA LDO Voltage Reg.*	SOT-23-5	855.00/3,000		
LDS3985M25R	497-6147-1-ND	2.5V, 300mA LDO Voltage Reg.*	SOT-23-5	.90	.72	.54
LDS3985M25R	497-6147-2-ND	2.5V, 300mA LDO Voltage Reg.*	SOT-23-5	855.00/3,000		
LDS3985M33R	497-4257-1-ND	3.3V, 300mA LDO Volt. Regulator	SOT-23-5	.90	.72	.54
LDS3985M33R	497-4257-2-ND	3.3V, 300mA LDO Volt. Regulator	SOT-23-5	855.00/3,000		
LE30CZ	497-1528-ND	3V, LDO Voltage Regulator	TO-92	1.05	.91	.70
LE30CZ-TR	497-5366-1-ND	3V, LDO Voltage Regulator*	TO-92	.99	.80	.60
LE30CZ-TR	497-5366-2-ND	3V, LDO Voltage Regulator*	TO-92	682.00/2,000		
LE33CZ-TR	497-4258-1-ND	3.3V, LDO Voltage Regulator	TO-92	.86	.69	.52
LE40CZ	497-1529-ND	4V, LDO Voltage Regulator	TO-92	1.05	.91	.70
LE45ABD-TR	497-1530-1-ND	4.5V, LDO Voltage Regulator	8-SOIC	1.31	1.14	.88
LE50ABZ-AP	497-1531-1-ND	5V, LDO Voltage Regulator	TO-92	1.35	1.17	.90
LE50ABZ-AP	497-1531-3-ND	5V, LDO Voltage Regulator	TO-92	1044.00/2,000		
LE80CD-TR	497-5220-1-ND	8V, LDO Voltage Regulator*	8-SOIC	.90	.72	.54
LE80CD-TR	497-5220-2-ND	8V, LDO Voltage Regulator*	8-SOIC	712.50/2,500		
LF15ABDT-TR	497-5221-1-ND	1.5V, LDO Voltage Regulator*	D-PAK	1.62	1.35	1.14
LF18ABDT-TR	497-5843-1-ND	1.8V, Very LDO Voltage Regulator*	D-PAK	1.58	1.37	1.05

** RoHS Compliant*

(Continued)

STMicroelectronics Digi-Reel® VOLTAGE REGULATORS *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
LF18ABDT-TR	497-5843-2-ND	1.8V, Very LDO Voltage Regulator*	D-PAK	1197.50/2,500		
LF18CDT-TR	497-5222-1-ND	1.8V, LDO Voltage Regulator*	D-PAK	1.46	1.27	.98
LF18CDT-TR	497-5222-2-ND	1.8V, LDO Voltage Regulator*	D-PAK	1297.50/2,500		
LF25ABDT-TR	497-5223-1-ND	2.5V, LDO Voltage Regulator*	D-PAK	1.50	1.25	1.05
LF25CPT-TR	497-5224-1-ND	2.5V, LDO Voltage Regulator*	P-PAK	1.65	1.38	1.16
LF25CPT-TR	497-5224-2-ND	2.5V, LDO Voltage Regulator*	P-PAK	1230.00/2,500		
LF33ABDT-TR	497-5225-1-ND	3.3V, LDO Voltage Regulator*	D-PAK	1.39	1.21	.93
LF33ABDT-TR	497-5225-2-ND	3.3V, LDO Voltage Regulator*	D-PAK	1230.00/2,500		
LF33CDT-TR	497-1532-1-ND	3.3V, LDO Voltage Regulator	D-PAK	1.35	1.17	.90
LF33CDT-TR	497-1532-2-ND	3.3V, LDO Voltage Regulator	D-PAK	1197.50/2,500		
LF33CPT-TR	497-5226-1-ND	3.3V, LDO Voltage Regulator*	P-PAK	1.50	1.30	1.00
LF33CPT-TR	497-5226-2-ND	3.3V, LDO Voltage Regulator*	P-PAK	1330.00/2,500		
LF50ABPT-TR	497-5227-1-ND	5V, LDO Voltage Regulator*	P-PAK	1.83	1.53	1.29
LF50ABPT-TR	497-5227-2-ND	5V, LDO Voltage Regulator*	P-PAK	1625.00/2,500		
LF50CDT-TR	497-1534-1-ND	5V, LDO Voltage Regulator	D-PAK	1.80	1.56	1.20
LF50CDT-TR	497-1534-2-ND	5V, LDO Voltage Regulator	D-PAK	1595.00/2,500		
LF50CPT-TR	497-5228-1-ND	5V, LDO Voltage Regulator*	P-PAK	1.65	1.38	1.16
LF60ABDT-TR	497-1535-1-ND	6V, LDO Voltage Regulator	D-PAK	1.58	1.37	1.05
LF60ABDT-TR	497-1535-2-ND	6V, LDO Voltage Regulator	D-PAK	855.00/2,500		
LF80ABDT	497-1536-5-ND	8V, LDO Voltage Regulator	D-PAK	1.50	1.25	1.05
LF80ABDT-TR	497-5229-1-ND	8V, LDO Voltage Regulator*	D-PAK	1.31	1.14	.88
LF80CDT-TR	497-1537-1-ND	8V, LDO Voltage Regulator	D-PAK	1.80	1.56	1.20
LF80CDT-TR	497-1537-2-ND	8V, LDO Voltage Regulator	D-PAK	1595.00/2,500		
LF85CDT-TR	497-5673-1-ND	8.5V, LDO Voltage Regulator*	D-PAK	1.80	1.56	1.20
LF85CDT-TR	497-5673-2-ND	8.5V, LDO Voltage Regulator*	D-PAK	1595.00/2,500		
LF90ABDT-TR	497-1539-1-ND	9V, LDO Voltage Regulator	D-PAK	1.62	1.35	1.14
LF90ABDT-TR	497-1539-2-ND	9V, LDO Voltage Regulator	D-PAK	1755.00/2,500		
LK112SM50TR	497-4259-1-ND	5V, LDO Voltage Regulator	SOT-23-5L	.86	.69	.52
LK112SM50TR	497-4259-2-ND	5V, LDO Voltage Regulator	SOT-23-5L	813.00/3,000		
LK115D33-TR	497-1540-1-ND	3.3V, LDO Voltage Regulator	8-SOIC	1.22	.98	.73
LK115D33-TR	497-1540-2-ND	3.3V, LDO Voltage Regulator	8-SOIC	962.50/2,500		
LK115D50-TR	497-1541-1-ND	5V, LDO Voltage Regulator	8-SOIC	1.09	.95	.73
LK115D50-TR	497-1541-2-ND	5V, LDO Voltage Regulator	8-SOIC	897.75/2,500		
LM217T	497-1543-5-ND	1.2V to 37V Regulator	TO-220	1.39	1.21	.93
LM317D2T	497-1571-5-ND	1.2V to 37V Adjustable Regulator	D2-PAK	1.35	1.17	.90
LM317D2T-TR	497-1571-1-ND	1.2V to 37V Adjustable Regulator	D2-PAK	.99	.80	.60
LM317D2T-TR	497-1571-2-ND	1.2V to 37V Adjustable Regulator	D2-PAK	341.00/1,000		
LM317LD13TR	497-1572-1-ND	1.2V to 37V Adjustable Regulator	8-SOIC	.45	.36	.27
LM317LD13TR	497-1572-2-ND	1.2V to 37V Adjustable Regulator	8-SOIC	337.50/2,500		
LM317LZ	497-1573-5-ND	1.2V to 37V Adjustable Regulator	TO-92	.70	.56	.42
LM317LZ-AP	497-4266-1-ND	1.2V to 37V Adjustable Regulator	TO-92	.72	.58	.44
LM317LZ-AP	497-4266-2-ND	1.2V to 37V Adjustable Regulator	TO-92	456.00/2,000		
LM317LZ-TR	497-1573-1-ND	1.2V to 37V Adjustable Regulator	TO-92	.65	.52	.39
LM317MDT-TR	497-1574-1-ND	1.2V to 37V Adjustable Regulator	D-PAK	.77	.62	.46
LM317MDT-TR	497-1574-2-ND	1.2V to 37V Adjustable Regulator	D-PAK	605.00/2,500		
LM317T	497-1575-5-ND	1.2V to 37V Adjustable Regulator	TO-220	.77	.62	.46
LM323K	497-2976-5-ND	5V, 3A Positive Voltage Regulator	TO-3	4.70	4.09	3.05
LM337SP	497-1585-5-ND	3-Terminal Adjustable Neg. Volt. Reg.	TO-220	1.13	.98	.75
LM338K	497-2979-5-ND	3-Terminal 5A Adj. Voltage Regulator	TO-3	8.37	7.65	6.05
LM723CD013TR	497-1595-1-ND	High Precision Voltage Regulator	14-SOIC	.86	.69	.52
LM723CN	497-1596-5-ND	High Precision Voltage Regulator	14-Dip	.72	.58	.44
LM723N	497-4268-5-ND	High Precision Voltage Regulator	14-Dip	.99	.80	.60
LM2931AD50R	497-1563-1-ND	5V, LDO Voltage Regulator	8-SOIC	.95	.76	.57
LM2931ADT50R	497-1564-1-ND	5V, LDO Voltage Regulator	D-PAK	.94	.82	.63
LM2931ADT50R	497-1564-2-ND	5V, LDO Voltage Regulator	D-PAK	832.50/2,500		
LM2931AZ50R	497-4262-1-ND	5V, LDO Voltage Regulator	TO-92	.77	.62	.46
LM2931AZ50R	497-4262-2-ND	5V, LDO Voltage Regulator	TO-92	528.00/2,000		
LM2931D	497-4263-5-ND	2.5V to 26V, LDO Voltage Regulator	8-SOIC	1.05	.91	.70
LNBH21PD-TR	497-4270-1-ND	LNB Supply/Control IC	20-Power SOIC	5.13	4.47	3.33
LNBH21PD-TR	497-4270-2-ND	LNB Supply/Control IC	20-Power SOIC	1596.00/600		
LNBH221PD-TR	497-4271-1-ND	Dual LNB Supply/Control IC	36-Power SOIC	6.12	5.59	4.42
LNBH221PD-TR	497-4271-2-ND	Dual LNB Supply/Control IC	36-Power SOIC	2074.80/600		
LNBP21D2-TR	497-4272-1-ND	LNBP Supply/Control IC	20-SOIC	3.92	3.41	2.54
LNBP21D2-TR	497-4272-2-ND	LNBP Supply/Control IC	20-SOIC	1929.00/1,000		
LNBP21PD-TR	497-4273-1-ND	LNBP Supply/Control IC	20-Power SOIC	4.19	3.65	2.72
LNBP21PD-TR	497-4273-2-ND	LNBP Supply/Control IC	20-Power SOIC	1302.00/600		
LNBS21PD-TR	497-5369-1-ND	LNB Supply/Control IC*	20-Power SOIC	4.64	4.05	3.01
LNBS21PD-TR	497-5369-2-ND	LNB Supply/Control IC*	20-Power SOIC	1444.80/600		
MC34063ECN	497-4280-5-ND	DC/DC Converter Control Circuit	8-Dip	.77	.62	.46
PB137ACV	497-5376-5-ND	Positive Voltage Regulator for Battery Charger*	TO-220	1.35	1.17	.90
ST1S03PUR	497-6046-1-ND	1.5A, 1.5MHz Adjustable, Step-Down Switching Regulator*	6D-DFN	2.40	2.08	1.60
ST1S03PUR	497-6046-2-ND	1.5A, 1.5MHz Adjustable, Step-Down Switching Regulator*	6D-DFN	2736.00/3,000		
ST1S06APUR	497-6309-1-ND	1.5A, 1.5MHz Adjustable, Step-Down Switching Regulator*	6D-DFN	2.01	1.68	1.41
ST1S06APUR	497-6309-2-ND	1.5A, 1.5MHz Adjustable, Step-Down Switching Regulator*	6D-DFN	2613.00/3,000		
ST1S06PU12R	497-6310-1-ND	1.5A, 1.5MHz, 1.2V, Step-Down Switching Regulator*	6D-DFN	2.01	1.68	1.41
ST1S06PU12R	497-6310-2-ND	1.5A, 1.5MHz, 1.2V, Step-Down Switching Regulator*	6D-DFN	2613.00/3,000		
ST1S06PU33R	497-6311-1-ND	1.5A, 1.5MHz, 3.3V, Step-Down Switching Regulator*	6D-DFN	2.01	1.68	1.41
ST1S06PU33R	497-6311-2-ND	1.5A, 1.5MHz, 3.3V, Step-Down Switching Regulator*	6D-DFN	2613.00/3,000		
ST1S06PUR	497-5802-1-ND	1.5A, 1.5MHz, Adjustable, Step-Down Switching Regulator*	6-DFN	2.01	1.68	1.41
ST1S06PUR	497-5802-2-ND	1.5A, 1.5MHz, Adjustable, Step-Down Switching Regulator*	6-DFN	2613.00/3,000		
ST1S09PUR	497-6312-1-ND	2A, 1.5MHz, PWM Step-Down Switching Regulator*	6D-DFN	2.16	1.80	1.52
ST1S09PUR	497-6312-2-ND	2A, 1.5MHz, PWM, Step-Down Switching Regulator*	6D-DFN	2808.00/3,000		
ST1S10PUR	497-6313-1-ND	3A, 900kHz, Step-Down Regulator*	8-DFN	2.40	2.00	1.68
ST5R25MTR	497-4314-1-ND	2.5V, Micropower VFM Step Up DC/DC Converter	SOT-23-5L	1.01	.88	.68
ST5R25MTR	497-4314-2-ND	2.5V, Micropower VFM Step Up DC/DC Converter	SOT-23-5L	1077.00/3,000		

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
ST5R50MTR	497-5378-1-ND	VFM Step-Up DC/DC Converter*	SOT-23-5L	1.65	1.38	1.16
ST5R50MTR	497-5378-2-ND	VFM Step-Up DC/DC Converter*	SOT-23-5L	2145.00/3,000		
ST619LBDR	497-3881-1-ND	5V, DC-DC Converter Regulated Charge Pump	8-SOIC	2.25	1.88	1.58
ST619LBDR	497-3881-2-ND	5V, DC-DC Converter Regulated Charge Pump	8-SOIC	2437.50/2,500		
ST619LBN	497-3882-ND	5V, DC-DC Converter Regulated Charge Pump	8-Dip	2.25	1.88	1.58
ST730ACDTR	497-4315-1-ND	5V Step Down Current Mode PWM DC/DC Converter	8-SOIC	1.50	1.30	1.00
ST730ACDTR	497-4315-2-ND	5V Step Down Current Mode PWM DC/DC Converter	8-SOIC	1330.00/2,500		
ST750ACD	497-2120-5-ND	Adj. Step-Down, Current Mode PWM DC/DC Converter	8-SOIC	1.50	1.30	1.00
ST750ACDTR	497-5803-1-ND	Adj. Step-Down, Current Mode PWM DC/DC Converter*	8-SOIC	1.50	1.30	1.00
ST750ACDTR	497-5803-2-ND	Adj. Step-Down, Current Mode PWM DC/DC Converter*	8-SOIC	1330.00/2,500		
ST755CD-TR	497-5847-1-ND	Adj. Inverting Negative Output Current Mode PWM Regulator*	8-SOIC	1.74	1.45	1.22
ST755CD-TR	497-5847-2-ND	Adj. Inverting Negative Output Current Mode PWM Regulator*	8-SOIC	1885.00/2,500		
STCF02PNR	497-5245-1-ND	High Power White LED Driver*	20-QFN	3.24	2.82	2.10
STCF02PNR	497-5245-2-ND	High Power White LED Driver*	20-QFN	6912.00/4,500		
STCF03TBR	497-6316-1-ND	High Power White LED Driver*	25-TFBGA	2.97	2.59	1.93
STCF03TBR	497-6316-2-ND	High Power White LED Driver*	25-TFBGA	4928.00/3,500		
STCS1PHR	497-5961-1-ND	1.5A Constant Current LED Driver*	8-Power SOIC	3.78	3.29	2.45
STCS1PUR	497-5962-1-ND	1.5A Constant Current LED Driver*	8-DFN	3.78	3.29	2.45
STCS1PUR	497-5962-2-ND	1.5A Constant Current LED Driver*	8-DFN	5376.00/3,000		
STLD20D-C8	497-4361-1-ND	White LED Power Supply*	SOT-23-8L	2.25	1.88	1.58
STLD20D-C8	497-4361-2-ND	White LED Power Supply*	SOT-23-8L	2925.00/3,000		
STLD20D-DEF	497-4362-1-ND	White LED Power Supply*	8-QFN	2.40	2.00	1.68
STLD20D-DEF	497-4362-2-ND	White LED Power Supply*	8-QFN	3120.00/3,000		
STLD40DPMR	497-5125-1-ND	White LED Power Supply*	8-QFN	3.65	3.18	2.37
STLD40DPMR	497-5125-2-ND	White LED Power Supply*	8-QFN	5184.00/3,000		
STLQ50C18R	497-5815-1-ND	1.8V, LDO Voltage Regulator*	SOT-323-5	.90	.72	.54
STLQ50C18R	497-5815-2-ND	1.8V, LDO Voltage Regulator*	SOT-323-5	855.00/3,000		
STLQ50C-R	497-5819-1-ND	Adj., LDO Voltage Regulator*	SOT-323-5	.75	.65	.50
STLQ50C-R	497-5819-2-ND	Adj., LDO Voltage Regulator*	SOT-323-5	798.00/3,000		

SII Seiko Instruments Inc. POWER MANAGEMENT

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Seiko Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
S-80821CNMC-B8GT2G	728-1008-1-ND	2.1V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-23-5	.75	.63	.50
S-80821CNMC-B8GT2G	728-1008-2-ND	2.1V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-23-5	975.00/3,000		
S-80825CLUA-B6KT2G	728-1009-1-ND	2.5V, High-Precision Voltage Detector N-Ch. CMOS Output	SOT-89-3	.75	.63	.50
S-80825CLUA-B6KT2G	728-1009-2-ND	2.5V, High-Precision Voltage Detector N-Ch. CMOS Output	SOT-89-3	333.00/1,000		
S-80825CNUA-B8KT2G	728-1010-1-ND	2.5V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-89-3	.75	.63	.50
S-80825CNUA-B8KT2G	728-1010-2-ND	2.5V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-89-3	333.00/1,000		
S-80830CNMC-B8PT2G	728-1011-1-ND	3.0V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-23-5	.75	.63	.50
S-80830CNMC-B8PT2G	728-1011-2-ND	3.0V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-23-5	975.00/3,000		
S-80840CNUA-B8ZT2G	728-1012-1-ND	4.0V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-89-3	.75	.63	.50
S-80840CNUA-B8ZT2G	728-1012-2-ND	4.0V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-89-3	333.00/1,000		
S-80840CNY-B-G	728-1013-ND	4.0V, High-Precision Voltage Detector N-Ch. Open-Drain Output	TO-92	1.00	.75	.57
S-80845CNMC-B86T2G	728-1014-1-ND	4.5V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-23-5	.75	.63	.50
S-80845CNMC-B86T2G	728-1014-2-ND	4.5V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-23-5	975.00/3,000		
S-80845CNY-B-G	728-1015-ND	4.5V, High-Precision Voltage Detector N-Ch. Open-Drain Output	TO-92	1.00	.75	.57
S-80846CNUA-B87T2G	728-1016-1-ND	4.6V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-89-3	1.00	.75	.57
S-80846CNUA-B87T2G	728-1016-2-ND	4.6V, High-Precision Voltage Detector N-Ch. Open-Drain Output	SOT-89-3	333.00/1,000		
S-812C25AUA-C2FT2G	728-1017-1-ND	2.5V, High-Voltage CMOS LDO Reg.	SOT-89-3	.92	.69	.52
S-812C25AUA-C2FT2G	728-1017-2-ND	2.5V, High-Voltage CMOS LDO Reg.	SOT-89-3	306.00/1,000		
S-812C30AMC-C2KT2G	728-1018-1-ND	3.0V, High-Voltage CMOS LDO Reg.	SOT-23-5	.92	.69	.52
S-812C30AMC-C2KT2G	728-1018-2-ND	3.0V, High-Voltage CMOS LDO Reg.	SOT-23-5	897.00/3,000		
S-812C30AUA-C2KT2G	728-1019-1-ND	3.0V, High-Voltage CMOS LDO Reg.	SOT-89-3	.92	.69	.52
S-812C30AUA-C2KT2G	728-1019-2-ND	3.0V, High-Voltage CMOS LDO Reg.	SOT-89-3	306.00/1,000		
S-812C30AY-B-G	728-1020-ND	3.0V, High-Voltage CMOS LDO Reg.	TO-92	.92	.69	.52
S-812C33AMC-C2NT2G	728-1021-1-ND	3.3V, High-Voltage CMOS LDO Reg.	SOT-23-5	.92	.69	.52
S-812C33AMC-C2NT2G	728-1021-2-ND	3.3V, High-Voltage CMOS LDO Reg.	SOT-23-5	897.00/3,000		
S-812C33AUA-C2NT2G	728-1022-1-ND	3.3V, High-Voltage CMOS LDO Reg.	SOT-89-3	.92	.69	.52
S-812C33AUA-C2NT2G	728-1022-2-ND	3.3V, High-Voltage CMOS LDO Reg.	SOT-89-3	306.00/1,000		
S-812C40AMC-C2UT2G	728-1023-1-ND	4.0V, High-Voltage CMOS LDO Reg.	SOT-23-5	.92	.69	.52
S-812C40AMC-C2UT2G	728-1023-2-ND	4.0V, High-Voltage CMOS LDO Reg.	SOT-23-5	897.00/3,000		
S-812C50AUA-C3ET2G	728-1024-1-ND	5.0V, High-Voltage CMOS LDO Reg.	SOT-89-3	.92	.69	.52
S-812C50AUA-C3ET2G	728-1024-2-ND	5.0V, High-Voltage CMOS LDO Reg.	SOT-89-3	306.00/1,000		
S-812C50AMC-C3ET2G	728-1025-1-ND	5.0V, High-Voltage CMOS LDO Reg.	SOT-23-5	.92	.69	.52
S-812C50AMC-C3ET2G	728-1025-2-ND	5.0V, High-Voltage CMOS LDO Reg.	SOT-23-5	897.00/3,000		
S-812C50AY-B-G	728-1026-ND	5.0V, High-Voltage CMOS LDO Reg.	TO-92	.92	.69	.52
S-817A30ANB-CUTT2G	728-1027-1-ND	3.0V, Super-Small CMOS LDO Reg.	SC-82AB	.92	.69	.52
S-817A30ANB-CUTT2G	728-1027-2-ND	3.0V, Super-Small CMOS LDO Reg.	SC-82AB	897.00/3,000		
S-817A33ANB-CUWT2G	728-1028-1-ND	3.3V, Super-Small CMOS LDO Reg.	SC-82AB	.92	.69	.52
S-817A33ANB-CUWT2G	728-1028-2-ND	3.3V, Super-Small CMOS LDO Reg.	SC-82AB	897.00/3,000		
S-817B15AMC-CWET2G	728-1029-1-ND	1.5V, Super-Small CMOS LDO Reg.	SOT-23-5	.92	.69	.52
S-817B15AMC-CWET2G	728-1029-2-ND	1.5V, Super-Small CMOS LDO Reg.	SOT-23-5	897.00/3,000		
S-817B33AMC-CWWT2G	728-1030-1-ND	3.3V, Super-Small CMOS LDO Reg.	SOT-23-5	.92	.69	.52
S-817B33AMC-CWWT2G	728-1030-2-ND	3.3V, Super-Small CMOS LDO Reg.	SOT-23-5	897.00/3,000		
S-8232ABFT-T2-G	728-1031-1-ND	Battery Protection for 2-Serial-Cell Pack	8-TSSOP	1.30	1.04	.78
S-8232ABFT-T2-G	728-1031-2-ND	Battery Protection for 2-Serial-Cell Pack	8-TSSOP	2028.00/3,000		

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SII Seiko Instruments Inc.

POWER MANAGEMENT *(Continued)*
RoHS Compliant

Seiko Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
S-8241ABKMC-GBKT2G	728-1032-1-ND	Battery Protection for Single-Cell Pack	SOT-23-5	1.48	1.11	.84
S-8241ABKMC-GBKT2G	728-1032-2-ND	Battery Protection for Single-Cell Pack	SOT-23-5	1443.00/3,000		
S-8241ABPMC-GBPT2G	728-1033-1-ND	Battery Protection for Single-Cell Pack	SOT-23-5	.88	.66	.50
S-8241ABPMC-GBPT2G	728-1033-2-ND	Battery Protection for Single-Cell Pack	SOT-23-5	858.00/3,000		
S-8261AAJMD-G2JT2G	728-1034-1-ND	Battery Protection for Single-Cell Pack	SOT-23-6	.75	.63	.50
S-8261AAJMD-G2JT2G	728-1034-2-ND	Battery Protection for Single-Cell Pack	SOT-23-6	975.00/3,000		
S-8354A33MC-JQST2G	728-1035-1-ND	3.3V, PWM/PFM Switching Regulator	SOT-23-5	.90	.75	.60
S-8354A33MC-JQST2G	728-1035-2-ND	3.3V, PWM/PFM Switching Regulator	SOT-23-5	1170.00/3,000		
S-8354A50MC-JRJT2G	728-1036-1-ND	5.0V, PWM/PFM Switching Regulator	SOT-23-5	.90	.75	.60
S-8354A50MC-JRJT2G	728-1036-2-ND	5.0V, PWM/PFM Switching Regulator	SOT-23-5	1170.00/3,000		

Real-Time Clocks

Seiko Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
S-35390A-J8T1G	728-1006-1-ND	2 Wire Real-Time Clock	8-SOP	1.32	1.10	.88
S-35390A-J8T1G	728-1006-2-ND	2 Wire Real-Time Clock	8-SOP	1170.00/2,000		
S-35390A-T8T1G	728-1007-1-ND	2 Wire Real-Time Clock	8-TSSOP	1.41	1.18	.94
S-35390A-T8T1G	728-1007-2-ND	2 Wire Real-Time Clock	8-TSSOP	1833.00/3,000		

POWER INTEGRATIONS® Digi-Reel®

INTEGRATED POWER SWITCHING CONTROLLERS

Design Kits

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAK-16A	596-1001-ND	AC/DC Power Supply Design Kit	—	19.43	—	—
DAK-18	596-1002-ND	Multi Output AC/DC Power Supply Design Kit	—	29.93	—	—
DAK-32	596-1003-ND	Universal Input, DVD Supply, No Heatsink Design Kit	—	49.97	—	—
DAK-34	596-1004-ND	AC/DC Power Supply Design Kit	—	37.43	—	—
DAK-54	596-1006-ND	AC/DC Adapter Design Kit	—	19.43	—	—
DAK-68A	596-1007-ND	DC/DC Flyback Converter with PoE Powered Device Interface Design Kit	—	29.95	—	—
DAK-71A	596-1009-ND	DC/DC Flyback Converter Design Kit	—	34.43	—	—
DAK-85	596-1104-ND	LinkSwitch®-LP Design Accelerator Kit*	—	19.43	—	—
DAK-86	596-1195-ND	DPA-Switch® 6.6W DC/DC Converter Design Kit	—	87.50	—	—
DAK-89	596-1105-ND	LinkSwitch®-XT Design Accelerator Kit*	—	19.43	—	—
DAK-93	596-1126-ND	PeakSwitch® Design Accelerator Kit*	—	99.91	—	—
RDK-83	596-1128-ND	LinkSwitch®-LP Reference Design Kit	—	99.75	—	—
RDK-91	596-1194-ND	TinySwitch®-III Design Accelerator Kit*	—	112.50	—	—
RDK-115	596-1145-ND	TinySwitch®-PK Reference Design Kit	—	99.75	—	—
RDK-128	596-1198-ND	PeakSwitch® Motor Drive Design Kit	—	93.75	—	—
RDK-131	596-1127-ND	LinkSwitch®-TN LED Reference Design Kit	—	97.50	—	—
RDK-138	596-1197-ND	LinkSwitch®-TN 1.2W Non-Isolated Design Kit	—	93.75	—	—
RDK-142	596-1193-ND	TOPSwitch®-HX Reference Design Kit*	—	99.75	—	—

DPA-Switch® — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DPA422GN-TL	596-1139-1-ND	Highly Integrated DC/DC Converter	8-SMD	2.33	1.86	1.40
DPA422GN-TL	596-1139-2-ND	Highly Integrated DC/DC Converter	8-SMD	1209.00/1,000		
DPA422PN	596-1138-5-ND	Highly Integrated DC/DC Converter	8-Dip	2.25	1.80	1.35
DPA423GN-TL	596-1010-1-ND	Highly Integrated DC/DC Converter	8-SMD	2.40	1.92	1.44
DPA423GN-TL	596-1010-2-ND	Highly Integrated DC/DC Converter	8-SMD	1248.00/1,000		
DPA423PN	596-1011-5-ND	Highly Integrated DC/DC Converter	8-Dip	2.33	1.86	1.40
DPA424GN-TL	596-1013-1-ND	Highly Integrated DC/DC Converter	8-SMD	2.66	2.13	1.66
DPA424GN-TL	596-1013-2-ND	Highly Integrated DC/DC Converter	8-SMD	1505.00/1,000		
DPA424PN	596-1014-5-ND	Highly Integrated DC/DC Converter	8-Dip	2.59	2.07	1.61
DPA425GN-TL	596-1016-1-ND	Highly Integrated DC/DC Converter	8-SMD	3.67	2.94	2.29
DPA425GN-TL	596-1016-2-ND	Highly Integrated DC/DC Converter	8-SMD	2078.00/1,000		
DPA425PN	596-1017-5-ND	Highly Integrated DC/DC Converter	8-Dip	3.60	2.88	2.24
DPA425SN-TL	596-1018-1-ND	Highly Integrated DC/DC Converter	S-PAK	4.41	3.53	2.75

LinkSwitch® — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LNK500GN-TL	596-1028-1-ND	Energy Efficient, CV or CV/CC Switcher	8-SMD	1.23	1.03	.82
LNK500GN-TL	596-1028-2-ND	Energy Efficient, CV or CV/CC Switcher	8-SMD	545.00/1,000		
LNK500PN	596-1029-5-ND	Energy Efficient, CV or CV/CC Switcher	8-Dip	1.14	.95	.76
LNK501GN-TL	596-1030-1-ND	Energy Efficient, CV/CC Switcher	8-SMD	1.44	1.20	.96
LNK501GN-TL	596-1030-2-ND	Energy Efficient, CV/CC Switcher	8-SMD	638.00/1,000		
LNK501PN	596-1031-5-ND	Energy Efficient, CV/CC Switcher	8-Dip	1.35	1.13	.90
LNK520GN-TL	596-1032-1-ND	Energy Efficient, CV or CV/CC Switcher	8-SMD	1.02	.85	.68
LNK520GN-TL	596-1032-2-ND	Energy Efficient, CV or CV/CC Switcher	8-SMD	452.00/1,000		
LNK520PN	596-1033-5-ND	Energy Efficient, CV or CV/CC Switcher	8-Dip	.93	.78	.62

LinkSwitch®-HF — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LNK353GN	596-1172-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher IC	8-SMD	1.05	.88	.70

LinkSwitch®-LP — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LNK562DN-TL	596-1135-1-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-SOIC	1.11	.93	.74
LNK562DN-TL	596-1135-2-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-SOIC	1202.50/2,500		
LNK563DN-TL	596-1136-1-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-SOIC	1.14	.95	.76
LNK563DN-TL	596-1136-2-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-SOIC	1235.00/2,500		
LNK564DN-TL	596-1137-1-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-SOIC	1.17	.98	.78
LNK564DN-TL	596-1137-2-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-SOIC	1267.50/2,500		
LNK562PN	596-1035-5-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-Dip	.99	.83	.66
LNK563PN	596-1037-5-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-Dip	1.02	.85	.68
LNK564GN-TL	596-1038-1-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-SMD	1.14	.95	.76
LNK564GN-TL	596-1038-2-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-SMD	505.00/1,000		
LNK564PN	596-1039-5-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8-Dip	1.05	.88	.70

LinkSwitch®-TN — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LNK302DN-TL	596-1128-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SOIC	1.14	.95	.76
LNK302DN-TL	596-1128-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SOIC	1235.00/2,500		
LNK304DN-TL	596-1129-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SOIC	1.26	1.05	.84
LNK304DN-TL	596-1129-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SOIC	1365.00/2,500		
LNK305DN-TL	596-1130-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SOIC	1.47	1.23	.98
LNK305DN-TL	596-1130-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SOIC	1592.50/2,500		
LNK306DN-TL	596-1131-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SOIC	1.43	1.14	.86
LNK306DN-TL	596-1131-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SOIC	1825.00/2,500		
LNK302GN-TL	596-1020-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	1.11	.93	.74
LNK302GN-TL	596-1020-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	492.00/1,000		
LNK302PN	596-1021-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-Dip	1.02	.85	.68
LNK304GN-TL	596-1022-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	1.23	1.03	.82
LNK304GN-TL	596-1022-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	545.00/1,000		
LNK304PN	596-1023-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-Dip	1.14	.95	.76
LNK305GN-TL	596-1024-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	1.44	1.20	.96
LNK305GN-TL	596-1024-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	638.00/1,000		
LNK305PN	596-1025-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-Dip	1.35	1.13	.90
LNK306GN-TL	596-1026-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	1.40	1.12	.84
LNK306GN-TL	596-1026-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-SMD	728.00/1,000		
LNK306PN	596-1027-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher	8-Dip	1.33	1.06	.80

LinkSwitch®-XT — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LNK362DN-TL	596-1132-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SOIC	1.20	1.00	.80
LNK362DN-TL	596-1132-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SOIC	1300.00/2,500		
LNK363DN-TL	596-1133-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SOIC	1.29	1.08	.86
LNK363DN-TL	596-1133-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SOIC	1397.50/2,500		
LNK364DN-TL	596-1134-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SOIC	1.35	1.13	.90
LNK364DN-TL	596-1134-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SOIC	1462.50/2,500		
LNK362GN-TL	596-1085-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.17	.98	.78
LNK362GN-TL	596-1085-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	519.00/1,000		
LNK362PN	596-1084-5-ND	Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.08	.90	.72
LNK363GN-TL	596-1087-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.26	1.05	.84
LNK363GN-TL	596-1087-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	559.00/1,000		
LNK363PN	596-1086-5-ND	Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.17	.98	.78
LNK364GN-TL	596-1089-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.32	1.10	.88
LNK364GN-TL	596-1089-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	585.00/1,000		
LNK364PN	596-1088-5-ND	Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.23	1.03	.82

PeakSwitch® — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PKS603PN	596-1116-5-ND	Enhanced, Energy Efficient, Off-Line Switcher with Super Peak Power Performance	8-Dip	1.40	1.12	.84
PKS604FN	596-1123-5-ND	Enhanced, Energy Efficient, Off-Line Switcher with Super Peak Power Performance	TO-262-7	2.00	1.60	1.20
PKS604PN	596-1117-5-ND	Enhanced, Energy Efficient, Off-Line Switcher with Super Peak Power Performance	8-Dip	1.60	1.28	.96
PKS604YN	596-1120-5-ND	Enhanced, Energy Efficient, Off-Line Switcher with Super Peak Power Performance	TO-220-7	2.00	1.60	1.20
PKS605FN	596-1124-5-ND	Enhanced, Energy Efficient, Off-Line Switcher with Super Peak Power Performance	TO-262-7	2.13	1.70	1.28
PKS605PN	596-1118-5-ND	Enhanced, Energy Efficient, Off-Line Switcher with Super Peak Power Performance	8-Dip	1.75	1.40	1.05
PKS605YN	596-1121-5-ND	Enhanced, Energy Efficient, Off-Line Switcher with Super Peak Power Performance	TO-220-7	2.13	1.70	1.28
PKS606FN	596-1125-5-ND	Enhanced, Energy Efficient, Off-Line Switcher with Super Peak Power Performance	TO-262-7	2.40	1.92	1.44
PKS606PN	596-1119-5-ND	Enhanced, Energy Efficient, Off-Line Switcher with Super Peak Power Performance	8-Dip	2.08	1.66	1.25
PKS606YN	596-1122-5-ND	Enhanced, Energy Efficient, Off-Line Switcher with Super Peak Power Performance	TO-220-7	2.40	1.92	1.44
PKS607FN	596-1140-5-ND	Enhanced, Energy Efficient, Off-Line Switcher with Super Peak Power Performance	TO-262-7	2.41	1.93	1.50
PKS607YN	596-1141-5-ND	Enhanced, Energy Efficient, Off-Line Switcher with Super Peak Power Performance	TO-220-7	2.41	1.93	1.50

TinySwitch® — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TNY253GN-TL	596-1040-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.63	1.30	.98
TNY253GN-TL	596-1040-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	845.00/1,000		
TNY254GN-TL	596-1041-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.63	1.30	.98
TNY254GN-TL	596-1041-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	845.00/1,000		
TNY255GN-TL	596-1042-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.70	1.36	1.02
TNY255GN-TL	596-1042-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	884.00/1,000		
TNY255PN	596-1170-5-ND	Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.58	1.26	.95

TinySwitch® Plus — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TNY256GN-TL	596-1043-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	2.03	1.62	1.22
TNY256GN-TL	596-1043-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	1053.00/1,000		
TNY256PN	596-1171-5-ND	Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.90	1.52	1.14
TNY256YN	596-1218-5-ND	Energy Efficient, LP Off-Line Switcher ***NEW!***	TO-220-7	2.33	1.86	1.40

***RoHS Compliant**

(Continued)

TinySwitch®-II — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TNY263GN-TL	596-1044-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.25	1.00	.75
TNY263PN	596-1045-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.35	1.13	.90
TNY264GN-TL	596-1046-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.35	1.08	.81
TNY264GN-TL	596-1046-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	702.00/1,000		
TNY264PN	596-1047-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.47	1.23	.98
TNY265GN-TL	596-1048-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.40	1.12	.84
TNY265GN-TL	596-1048-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	728.00/1,000		
TNY265PN	596-1049-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.28	1.02	.77
TNY266GN-TL	596-1050-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.50	1.20	.90
TNY266GN-TL	596-1050-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	780.00/1,000		
TNY266PN	596-1051-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.38	1.10	.83
TNY267GN-TL	596-1052-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.70	1.36	1.02
TNY267GN-TL	596-1052-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	1768.00/2,000		
TNY267PN	596-1053-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.58	1.26	.95
TNY268GN-TL	596-1054-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.85	1.48	1.11
TNY268GN-TL	596-1054-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-SMD	962.00/1,000		
TNY268PN	596-1055-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8-Dip	1.73	1.38	1.04

TinySwitch®-III — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TNY274GN-TL	596-1109-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	1.44	1.20	.96
TNY274GN-TL	596-1109-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	612.00/1,000		
TNY274PN	596-1090-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-Dip	1.35	1.13	.90
TNY275GN-TL	596-1110-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	1.25	1.00	.75
TNY275GN-TL	596-1110-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	665.00/1,000		
TNY275PN	596-1091-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-Dip	1.41	1.18	.94
TNY276GN-TL	596-1111-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	1.33	1.06	.80
TNY276GN-TL	596-1111-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	689.00/1,000		
TNY276PN	596-1092-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-Dip	1.25	1.00	.75
TNY277GN-TL	596-1112-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	1.45	1.16	.87
TNY277GN-TL	596-1112-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	754.00/1,000		
TNY277PN	596-1093-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-Dip	1.38	1.10	.83
TNY278GN-TL	596-1113-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	1.65	1.32	.99
TNY278GN-TL	596-1113-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	858.00/1,000		
TNY278PN	596-1094-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-Dip	1.58	1.26	.95
TNY279GN-TL	596-1114-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	1.88	1.50	1.13
TNY279GN-TL	596-1114-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	975.00/1,000		
TNY279PN	596-1095-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-Dip	1.80	1.44	1.08
TNY280GN-TL	596-1115-1-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	2.15	1.72	1.29
TNY280GN-TL	596-1115-2-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-SMD	1118.00/1,000		
TNY280PN	596-1096-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8-Dip	2.08	1.66	1.25

TinySwitch®-PK — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TNY375PN	596-1142-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Peak Power Performance	8-Dip	1.20	.96	.72
TNY376PN	596-1143-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Peak Power Performance	8-Dip	1.15	.92	.72
TNY377PN	596-1144-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Peak Power Performance	8-Dip	1.26	1.01	.79

TOPSwitch® — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TOP101YN	596-1146-5-ND	3-Terminal Off-Line PWM Switch	TO-220	3.26	2.61	2.03
TOP103YN	596-1147-5-ND	3-Terminal Off-Line PWM Switch	TO-220	4.14	3.32	2.58
TOP104YN	596-1148-5-ND	3-Terminal Off-Line PWM Switch	TO-220	4.34	3.48	2.71
TOP200YN	596-1149-5-ND	3-Terminal Off-Line PWM Switch	TO-220	2.95	2.36	1.84
TOP201YN	596-1150-5-ND	3-Terminal Off-Line PWM Switch	TO-220	3.60	2.88	2.24
TOP202YN	596-1151-5-ND	3-Terminal Off-Line PWM Switch	TO-220	4.41	3.53	2.75
TOP203YN	596-1152-5-ND	3-Terminal Off-Line PWM Switch	TO-220	4.75	3.80	2.96
TOP204YN	596-1153-5-ND	3-Terminal Off-Line PWM Switch	TO-220	5.38	4.31	3.64
TOP209GN-TL	596-1056-1-ND	3-Terminal Off-Line PWM Switch	8-SMD	2.18	1.74	1.31
TOP210GN-TL	596-1057-1-ND	3-Terminal Off-Line PWM Switch	8-SMD	2.32	1.86	1.45
TOP210GN-TL	596-1057-2-ND	3-Terminal Off-Line PWM Switch	8-SMD	1313.00/1,000		
TOP210PN	596-1154-5-ND	3-Terminal Off-Line PWM Switch	8-Dip	2.27	1.82	1.42
TOP412GN-TL	596-1082-1-ND	3-Terminal DC/DC PWM Switch	8-SMD	2.90	2.33	1.81
TOP412GN-TL	596-1082-2-ND	3-Terminal DC/DC PWM Switch	8-SMD	1645.00/1,000		
TOP414GN-TL	596-1083-1-ND	3-Terminal DC/DC PWM Switch	8-SMD	3.26	2.61	2.03
TOP414GN-TL	596-1083-2-ND	3-Terminal DC/DC PWM Switch	8-SMD	1849.00/1,000		

TOPSwitch®-GX — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TOP242GN-TL	596-1065-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.38	1.90	1.43
TOP242GN-TL	596-1065-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	1235.00/1,000		
TOP242PN	596-1066-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.25	1.80	1.35
TOP242YN	596-1067-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	2.34	1.88	1.46
TOP243GN-TL	596-1068-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.45	1.97	1.53
TOP243GN-TL	596-1068-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	1390.00/1,000		
TOP243PN	596-1069-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.34	1.88	1.46
TOP243YN	596-1070-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	2.66	2.13	1.66
TOP244FN	596-1166-ND	Extended Power Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-262-7	2.95	2.36	1.84
TOP244GN-TL	596-1071-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.77	2.22	1.73
TOP244GN-TL	596-1071-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	1568.00/1,000		
TOP244PN	596-1072-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.66	2.13	1.66
TOP244YN	596-1073-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	2.95	2.36	1.84
TOP245GN	596-1167-5-ND	Extended Power Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.99	2.40	1.87
TOP245PN	596-1074-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.93	2.34	1.82
TOP245YN	596-1075-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	3.24	2.60	2.02
TOP246FN	596-1168-ND	Extended Power Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-262-7	3.51	2.81	2.19
TOP246GN-TL	596-1196-1-ND	Extended Power Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	8-SMD	3.33	2.67	2.08
TOP246GN-TL	596-1196-2-ND	Extended Power Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	8-SMD	1887.00/1,000		
TOP246PN	596-1076-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-Dip	3.22	2.58	2.01
TOP246R-TL	596-1099-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-263	3.58	2.87	2.23
TOP246YN	596-1077-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	3.51	2.81	2.19
TOP247YN	596-1078-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	3.80	3.05	2.37
TOP248YN	596-1079-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	4.07	3.26	2.54
TOP249YN	596-1080-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	4.37	3.50	2.72
TOP250FN	596-1169-ND	Extended Power Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-262-7	4.93	3.95	3.07
TOP250YN	596-1081-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	4.93	3.95	3.07

TOPSwitch®-FX — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TOP232GN-TL	596-1062-1-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.45	1.96	1.47
TOP232GN-TL	596-1062-2-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	1274.00/1,000		
TOP233GN-TL	596-1063-1-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.54	2.04	1.59
TOP233GN-TL	596-1063-2-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	1441.00/1,000		
TOP233PN	596-1164-5-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.43	1.95	1.52
TOP233YN	596-1165-5-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	2.79	2.24	1.74
TOP234GN-TL	596-1064-1-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.90	2.33	1.81
TOP234GN-TL	596-1064-2-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-SMD	1645.00/1,000		
TOP234PN	596-1107-5-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.79	2.24	1.74
TOP234YN	596-1108-5-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7	3.13	2.51	1.95

TOPSwitch®-II — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TOP221GN-TL	596-1058-1-ND	3-Terminal Off-Line PWM Switch	8-SMD	2.40	1.92	1.44
TOP221GN-TL	596-1058-2-ND	3-Terminal Off-Line PWM Switch	8-SMD	1248.00/1,000		
TOP221PN	596-1155-5-ND	3-Terminal Off-Line PWM Switch	8-Dip	2.35	1.88	1.41
TOP222GN-TL	596-1059-1-ND	3-Terminal Off-Line PWM Switch	8-SMD	2.54	2.04	1.59
TOP222GN-TL	596-1059-2-ND	3-Terminal Off-Line PWM Switch	8-SMD	1441.00/1,000		
TOP222YN	596-1156-5-ND	3-Terminal Off-Line PWM Switch	TO-220	2.90	2.33	1.81
TOP223GN-TL	596-1060-1-ND	3-Terminal Off-Line PWM Switch	8-SMD	2.95	2.36	1.84
TOP223GN-TL	596-1060-2-ND	3-Terminal Off-Line PWM Switch	8-SMD	1670.00/1,000		
TOP223PN	596-1157-5-ND	3-Terminal Off-Line PWM Switch	8-Dip	2.90	2.33	1.81
TOP223YN	596-1158-5-ND	3-Terminal Off-Line PWM Switch	TO-220	3.29	2.63	2.05
TOP224GN-TL	596-1061-1-ND	3-Terminal Off-Line PWM Switch	8-SMD	3.33	2.67	2.08
TOP224GN-TL	596-1061-2-ND	3-Terminal Off-Line PWM Switch	8-SMD	1887.00/1,000		
TOP224PN	596-1159-5-ND	3-Terminal Off-Line PWM Switch	8-Dip	3.29	2.63	2.05
TOP224YN	596-1160-5-ND	3-Terminal Off-Line PWM Switch	TO-220	3.69	2.96	2.30
TOP225YN	596-1161-5-ND	3-Terminal Off-Line PWM Switch	TO-220	4.05	3.24	2.52
TOP226YN	596-1162-5-ND	3-Terminal Off-Line PWM Switch	TO-220	4.46	3.57	2.78
TOP227YN	596-1163-5-ND	3-Terminal Off-Line PWM Switch	TO-220	4.84	3.87	3.01

TOPSwitch®-HX — RoHS Compliant

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TOP252EN	596-1202-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	7-eSip	1.48	1.18	.89
TOP252GN-TL	596-1200-1-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	8-SMD	1.40	1.12	.84
TOP252GN-TL	596-1200-2-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	8-SMD	728.00/1,000		

(Continued)

POWER INTEGRATIONS — Digi-Reel® — INTEGRATED POWER SWITCHING CONTROLLERS *(Continued)*

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TOP252PN	596-1199-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	8-Dip	1.33	1.06	.80
TOP252MN	596-1201-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	10-SDip	1.38	1.10	.83
TOP253GN-TL	596-1204-1-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	8-SMD	1.53	1.22	.92
TOP253GN-TL	596-1204-2-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	8-SMD	793.00/1,000		
TOP253PN	596-1203-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	8-Dip	1.45	1.16	.87
TOP253MN	596-1205-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	10-SDip	1.50	1.20	.90
TOP253EN	596-1206-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	7-eSip	1.63	1.30	.98
TOP254EN	596-1207-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	7-eSip	1.78	1.42	1.07
TOP254GN-TL	596-1174-1-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-SMD	1.83	1.46	1.10
TOP254GN-TL	596-1174-2-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-SMD	949.00/1,000		
TOP254MN	596-1175-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	10-SDip	1.80	1.44	1.08
TOP254PN	596-1173-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-Dip	1.75	1.40	1.05
TOP254YN	596-1176-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	TO-220	2.30	1.84	1.43
TOP255EN	596-1208-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	7-eSip	1.93	1.54	1.16
TOP255GN-TL	596-1178-1-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-SMD	1.98	1.58	1.19
TOP255GN-TL	596-1178-2-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-SMD	1027.00/1,000		
TOP255MN	596-1179-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	10-SDip	1.95	1.56	1.17
TOP255PN	596-1177-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-Dip	1.90	1.52	1.14
TOP255YN	596-1180-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	TO-220	2.43	1.95	1.52
TOP256EN	596-1209-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	7-eSip	2.23	1.78	1.34
TOP256GN-TL	596-1182-1-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.28	1.82	1.37
TOP256GN-TL	596-1182-2-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-SMD	1183.00/1,000		
TOP256MN	596-1183-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	10-SDip	2.25	1.80	1.35
TOP256PN	596-1181-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.20	1.76	1.32
TOP256YN	596-1184-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	TO-220	2.70	2.16	1.68
TOP257EN	596-1210-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	7-eSip	2.27	1.82	1.42
TOP257GN-TL	596-1186-1-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.32	1.86	1.45
TOP257GN-TL	596-1186-2-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-SMD	1313.00/1,000		
TOP257MN	596-1187-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	10-SDip	2.30	1.84	1.43
TOP257PN	596-1185-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.25	1.80	1.40
TOP257YN	596-1188-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	TO-220	2.97	2.38	1.85
TOP258EN	596-1211-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	7-eSip	2.54	2.04	1.59
TOP258GN-TL	596-1190-1-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-SMD	2.59	2.07	1.61
TOP258GN-TL	596-1190-2-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-SMD	1466.00/1,000		
TOP258MN	596-1191-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	10-SDip	2.57	2.06	1.60
TOP258PN	596-1189-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	8-Dip	2.52	2.02	1.57
TOP258YN	596-1192-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher	TO-220	3.24	2.60	2.02
TOP259EN	596-1213-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	7-eSip	2.77	2.22	1.73
TOP259YN	596-1212-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-220-7	2.97	2.38	1.85
TOP260EN	596-1215-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	7-eSip	3.11	2.49	1.94
TOP260YN	596-1214-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-220-7	2.97	2.38	1.85
TOP261EN	596-1217-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	7-eSip	3.47	2.78	2.16
TOP261YN	596-1216-5-ND	Enhanced EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-220-7	2.97	2.38	1.85

·M·C·C· Micro Commercial Components — 78/79 SERIES VOLTAGE REGULATORS – *RoHS Compliant*

MCC Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
MC78L05BP-AP	MC78L05BP-APMSCT-ND	5V, 100mA Positive Voltage Reg.	TO-92	.20	.18	.15
MC78L05BP-AP	MC78L05BP-APMSTB-ND	5V, 100mA Positive Voltage Reg.	TO-92	325.00/2,000		
MC78L05F-TP	MC78L05F-TPMSCT-ND	5V, 100mA Positive Voltage Reg.	SOT-89	.48	.42	.36
MC78L05F-TP	MC78L05F-TPMSTR-ND	5V, 100mA Positive Voltage Reg.	SOT-89	390.00/1,000		
MC78L06BP-AP	MC78L06BP-APMSCT-ND	6V, 100mA Positive Voltage Reg.	TO-92	.20	.18	.15
MC78L06BP-AP	MC78L06BP-APMSTB-ND	6V, 100mA Positive Voltage Reg.	TO-92	325.00/2,000		
MC78L06F-TP	MC78L06F-TPMSCT-ND	6V, 100mA Positive Voltage Reg.	SOT-89	.48	.42	.36
MC78L06F-TP	MC78L06F-TPMSTR-ND	6V, 100mA Positive Voltage Reg.	SOT-89	390.00/1,000		
MC78L08BP-AP	MC78L08BP-APMSCT-ND	8V, 100mA Positive Voltage Reg.	TO-92	.20	.18	.15
MC78L08F-TP	MC78L08F-TPMSCT-ND	8V, 100mA Positive Voltage Reg.	SOT-89	.48	.42	.36
MC78L09BP-AP	MC78L09BP-APMSCT-ND	9V, 100mA Positive Voltage Reg.	TO-92	.20	.18	.15
MC78L09BP-AP	MC78L09BP-APMSTB-ND	9V, 100mA Positive Voltage Reg.	TO-92	325.00/2,000		
MC78L09F-TP	MC78L09F-TPMSCT-ND	9V, 100mA Positive Voltage Reg.	SOT-89	.48	.42	.36
MC78L09F-TP	MC78L09F-TPMSTR-ND	9V, 100mA Positive Voltage Reg.	SOT-89	390.00/1,000		
MC78L12BP-AP	MC78L12BP-APMSCT-ND	12V, 100mA Positive Voltage Reg.	TO-92	.20	.18	.15
MC78L12BP-AP	MC78L12BP-APMSTB-ND	12V, 100mA Positive Voltage Reg.	TO-92	325.00/2,000		
MC78L12F-TP	MC78L12F-TPMSCT-ND	12V, 100mA Positive Voltage Reg.	SOT-89	.48	.42	.36
MC78L12F-TP	MC78L12F-TPMSTR-ND	12V, 100mA Positive Voltage Reg.	SOT-89	390.00/1,000		
MC79L05BP-AP	MC79L05BP-APMSCT-ND	5V, 100mA Negative Voltage Reg.	TO-92	.20	.18	.15
MC79L05BP-AP	MC79L05BP-APMSTB-ND	5V, 100mA Negative Voltage Reg.	TO-92	325.00/2,000		
MC79L05F-TP	MC79L05F-TPMSCT-ND	5V, 100mA Negative Voltage Reg.	SOT-89	.48	.42	.36
MC79L05F-TP	MC79L05F-TPMSTR-ND	5V, 100mA Negative Voltage Reg.	SOT-89	390.00/1,000		
MC79L06BP-AP	MC79L06BP-APMSCT-ND	6V, 100mA Negative Voltage Reg.	TO-92	.20	.18	.15
MC79L06BP-AP	MC79L06BP-APMSTB-ND	6V, 100mA Negative Voltage Reg.	TO-92	325.00/2,000		
MC79L06F-TP	MC79L06F-TPMSCT-ND	6V, 100mA Negative Voltage Reg.	SOT-89	.48	.42	.36
MC79L06F-TP	MC79L06F-TPMSTR-ND	6V, 100mA Negative Voltage Reg.	SOT-89	300.00/1,000		
MC79L08BP-AP	MC79L08BP-APMSCT-ND	8V, 100mA Negative Voltage Reg.	TO-92	.20	.18	.15
MC79L08BP-AP	MC79L08BP-APMSTB-ND	8V, 100mA Negative Voltage Reg.	TO-92	325.00/2,000		
MC79L08F-TP	MC79L08F-TPMSCT-ND	8V, 100mA Negative Voltage Reg.	SOT-89	.48	.42	.36
MC79L08F-TP	MC79L08F-TPMSTR-ND	8V, 100mA Negative Voltage Reg.	SOT-89	390.00/1,000		
MC79L09F-TP	MC79L09F-TPMSCT-ND	9V, 100mA Negative Voltage Reg.	SOT-89	.48	.42	.36
MC79L09F-TP	MC79L09F-TPMSTR-ND	9V, 100mA Negative Voltage Reg.	SOT-89	390.00/1,000		
MC79L12BP-AP	MC79L12BP-APMSCT-ND	12V, 100mA Negative Voltage Reg.	TO-92	.20	.18	.15
MC79L12BP-AP	MC79L12BP-APMSTB-ND	12V, 100mA Negative Voltage Reg.	TO-92	325.00/2,000		
MC79L12F-TP	MC79L12F-TPMSCT-ND	12V, 100mA Negative Voltage Reg.	SOT-89	.48	.42	.36
MC79L12F-TP	MC79L12F-TPMSTR-ND	12V, 100mA Negative Voltage Reg.	SOT-89	390.00/1,000		
MC7805CT-BP	MC7805CT-BPMS-ND	5V, 1500mA Positive Voltage Reg.	TO-220	.40	.35	.30
MC7806CT-BP	MC7806CT-BPMS-ND	6V, 1500mA Positive Voltage Reg.	TO-220	.40	.35	.30
MC7808CT-BP	MC7808CT-BPMS-ND	8V, 1500mA Positive Voltage Reg.	TO-220	.40	.35	.30
MC7809CT-BP	MC7809CT-BPMS-ND	9V, 1500mA Positive Voltage Reg.	TO-220	.40	.35	.30
MC7810CT-BP	MC7810CT-BPMS-ND	10V, 1500mA Positive Voltage Reg.	TO-220	.40	.35	.30
MC7812CT-BP	MC7812CT-BPMS-ND	12V, 1500mA Positive Voltage Reg.	TO-220	.40	.35	.30
MC7905CT-BP	MC7905CT-BPMS-ND	5V, 1500mA Negative Voltage Reg.	TO-220	.40	.35	.30
MC7906CT-BP	MC7906CT-BPMS-ND	6V, 1500mA Negative Voltage Reg.	TO-220	.40	.35	.30
MC7908CT-BP	MC7908CT-BPMS-ND	8V, 1500mA Negative Voltage Reg.	TO-220	.40	.35	.30
MC7909CT-BP	MC7909CT-BPMS-ND	9V, 1500mA Negative Voltage Reg.	TO-220	.40	.35	.30
MC7910CT-BP	MC7910CT-BPMS-ND	10V, 1500mA Negative Voltage Reg.	TO-220	.40	.35	.30
MC7912CT-BP	MC7912CT-BPMS-ND	12V, 1500mA Negative Voltage Reg.	TO-220	.40	.35	.30

FAIRCHILD SEMICONDUCTOR® — 7400 SERIES TTL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74125N-ND	Tri-State Quad Buffer	14-Dip	3.05	2.40	1.94

FAIRCHILD SEMICONDUCTOR® — 74ABT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ABT125CSC-ND	Tri-State Quad Buffer	14-SOIC	.50	.40	.30
74ABT244CMSA-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.75	.63	.50
74ABT244CSC-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.72	.54	.41
74ABT245CSC-ND	Tri-State Octal Bus Transceiver*	20-SOIC	.72	.54	.41
74ABT541CSC-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.75	.63	.50
74ABT16244CSSC-ND	16-Bit, Tri-State Buffer/Line Driver*	48-SSOP	1.05	.88	.70
74ABT16245CSSC-ND	16-Bit, Tri-State Bidirectional Transceiver*	48-SSOP	1.05	.88	.70
74ABT16373CSSC-ND	16-Bit, D-Type Latch with Tri-State Outputs	48-SSOP	4.05	3.24	2.52

FAIRCHILD SEMICONDUCTOR® — Digi-Reel® — FAST™ ADVANCED CMOS TECHNOLOGY 74AC

These are high speed CMOS devices with CMOS input switching levels and buffered CMOS outputs.

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AC00PC-ND	Quad 2-Input NAND Gate	14-Dip	.55	.42	.31
74AC00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.38	.31	.22
74AC00SCXCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.37	.30	.21
74AC00SCXTR-ND	Quad 2-Input NAND Gate*	14-SOIC	242.50/2,500		
74AC02MTCXCT-ND	Quad 2-Input NOR Gate*	14-TSSOP	.42	.35	.24
74AC02MTCXTR-ND	Quad 2-Input NOR Gate*	14-TSSOP	277.50/2,500		
74AC02PC-ND	Quad 2-Input NOR Gate	14-Dip	.44	.36	.27
74AC02SC-ND	Quad 2-Input NOR Gate	14-SOIC	.42	.35	.24
74AC04PC-ND	Hex Inverter	14-Dip	.42	.35	.24
74AC04SC-ND	Hex Inverter	14-SOIC	.37	.30	.21
74AC04SCXCT-ND	Hex Inverter*	14-SOIC	.37	.30	.21
74AC04SCXTR-ND	Hex Inverter*	14-SOIC	242.50/2,500		
74AC08PC-ND	Quad 2-Input AND Gate	14-Dip	.40	.33	.22
74AC08SC-ND	Quad 2-Input AND Gate	14-SOIC	.37	.30	.21
74AC11SC-ND	Triple 3-Input AND Gate	14-SOIC	.42	.35	.24
74AC14PC-ND	Hex Inverter with Schmitt Trigger Input	14-Dip	.55	.44	.33
74AC14SC-ND	Hex Inverter with Schmitt Trigger Input	14-SOIC	.39	.32	.22
74AC14SCXCT-ND	Hex Inverter with Schmitt Trigger Input*	14-SOIC	.39	.32	.22
74AC14SCXTR-ND	Hex Inverter with Schmitt Trigger Input*	14-SOIC	255.00/2,500		
74AC20PC-ND	Dual 4-Input NAND Gate	14-Dip	.45	.36	.27
74AC20SCXCT-ND	Dual 4-Input NAND Gate*	14-SOIC	.42	.35	.24
74AC20SCXTR-ND	Dual 4-Input NAND Gate*	14-SOIC	276.25/2,500		
74AC32PC-ND	Quad 2-Input OR Gate	14-Dip	.55	.42	.31
74AC32SC-ND	Quad 2-Input OR Gate	14-SOIC	.37	.30	.21
74AC32SCXCT-ND	Quad 2-Input OR Gate*	14-SOIC	.37	.30	.21
74AC32SCXTR-ND	Quad 2-Input OR Gate*	14-SOIC	242.50/2,500		
74AC74PC-ND	Dual D-Type Flip-Flop with Set and Reset	14-Dip	.55	.44	.33
74AC74SC-ND	Dual D-Type Flip-Flop with Set and Reset	14-SOIC	.43	.35	.24
74AC86SC-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.43	.35	.24
74AC109SC-ND	Dual JK Positive-Edge-Triggered Flip-Flop	16-SOIC	.48	.38	.29
74AC125SC-ND	Tri-State Quad Buffer	14-SOIC	.47	.38	.26
74AC138PC-ND	1-of-8 Decoder/Demultiplexer	16-Dip	.52	.39	.30
74AC138SC-ND	1-of-8 Decoder/Demultiplexer	16-SOIC	.45	.36	.27
74AC138SCXCT-ND	1-of-8 Decoder/Demultiplexer*	16-SOIC	.45	.36	.27
74AC138SCXTR-ND	1-of-8 Decoder/Demultiplexer*	16-SOIC	305.00/2,500		
74AC139PC-ND	Dual 1-of-4 Decoder/Demultiplexer*	16-Dip	.52	.39	.30
74AC139SCXCT-ND	Dual 1-of-4 Decoder/Demultiplexer*	16-SOIC	.45	.36	.27
74AC139SCXTR-ND	Dual 1-of-4 Decoder/Demultiplexer*	16-SOIC	303.75/2,500		
74AC151PC-ND	8-Input Fact Multiplexer	16-Dip	.52	.39	.30
74AC151SC-ND	8-Input Fact Multiplexer	16-SOIC	.45	.36	.27
74AC157SC-ND	Quad 2-Input Multiplexer*	16-SOIC	.45	.36	.27
74AC161PC-ND	Synchronous Presettable 4-Bit Binary Counter	16-Dip	.56	.42	.32
74AC161SC-ND	Synchronous Presettable 4-Bit Binary Counter	16-SOIC	.40	.30	.23
74AC163SC-ND	Synchronous Presettable Binary Counter*	16-SOIC	.50	.40	.30
74AC174SC-ND	Hex D-Type Flip-Flop	16-SOIC	.50	.40	.30

***RoHS Compliant**

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FAST™ ADVANCED CMOS TECHNOLOGY 74AC *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74AC175SC-ND	Quad D-Type Flip-Flop	16-SOIC	.50	.40	.30
74AC191SCXCT-ND	Up/Down Counter with Preset and Ripple Clock*	16-SOIC	.75	.63	.50
74AC191SCXTR-ND	Up/Down Counter with Preset and Ripple Clock*	16-SOIC	812.50/2,500		
74AC244PC-ND	Tri-State Octal Buffer/Line Driver*	20-Dip	.58	.44	.33
74AC244SC-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.40	.30
74AC244SCXCT-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.50	.40	.30
74AC244SCXTR-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	140.00/1,000		
74AC245PC-ND	Tri-State Octal Bidirectional Transceiver*	20-Dip	.61	.46	.35
74AC245SCXCT-ND	Tri-State Octal Bidirectional Transceiver*	20-SOIC	.56	.45	.34
74AC245SCXTR-ND	Tri-State Octal Bidirectional Transceiver*	20-SOIC	156.80/1,000		
74AC251SCXCT-ND	Tri-State Output 8-Input Multiplexer*	16-SOIC	.46	.37	.28
74AC251SCXTR-ND	Tri-State Output 8-Input Multiplexer*	16-SOIC	310.50/2,500		
74AC257SC-ND	Quad 2-Input Multiplexer	16-SOIC	.46	.37	.28
74AC273PC-ND	Octal D-Type Flip-Flop*	20-Dip	.64	.48	.36
74AC273SC-ND	Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
74AC273SCXCT-ND	Octal D-Type Flip-Flop*	20-SOIC	.48	.36	.27
74AC273SCXTR-ND	Octal D-Type Flip-Flop*	20-SOIC	159.60/1,000		
74AC299SC-ND	Octal Shift/Storage	20-SOIC	.72	.54	.41
74AC373PC-ND	Tri-State Octal Transparent Latch*	20-Dip	.58	.44	.33
74AC373SC-ND	Tri-State Octal Transparent Latch	20-SOIC	.53	.42	.32
74AC521SC-ND	8-Bit Comparator	20-SOIC	.52	.39	.30
74AC540SC-ND	Octal Buffer/Line Driver with Tri-State Output	20-SOIC	.52	.39	.30
74AC541PC-ND	Octal Buffer/Line Driver with Tri-State Output	20-Dip	.64	.48	.36
74AC541SC-ND	Octal Buffer/Line Driver with Tri-State Output	20-SOIC	.52	.39	.30
74AC541SCXCT-ND	Octal Buffer/Line Driver with Tri-State Output*	20-SOIC	.52	.39	.30
74AC541SCXTR-ND	Octal Buffer/Line Driver with Tri-State Output*	20-SOIC	173.00/1,000		
74AC574SC-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	.52	.39	.30

74ACQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ACQ544SC-ND	Tri-State Octal Inverting Registered Transceiver	20-SOIC	5.49	4.44	3.59

74ACT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ACT00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.37	.30	.21
74ACT00SCXCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.37	.30	.21
74ACT00SCXTR-ND	Quad 2-Input NAND Gate*	14-SOIC	242.50/2,500		
74ACT02SC-ND	Quad 2-Input NOR Gate	14-SOIC	.49	.40	.27
74ACT04PC-ND	Hex Inverter	14-Dip	.55	.42	.31
74ACT04SC-ND	Hex Inverter	14-SOIC	.37	.30	.21
74ACT08PC-ND	Quad 2-Input AND Gate*	14-Dip	.45	.37	.25
74ACT08SC-ND	Quad 2-Input AND Gate	14-SOIC	.37	.30	.21
74ACT08SCXCT-ND	Quad 2-Input AND Gate*	14-SOIC	.37	.30	.21
74ACT08SCXTR-ND	Quad 2-Input AND Gate*	14-SOIC	242.50/2,500		
74ACT14SC-ND	Hex Inverter with Schmitt Trigger Input*	14-SOIC	.39	.32	.22
74ACT32SC-ND	Quad 2-Input OR Gate	14-SOIC	.37	.30	.21
74ACT32SCXCT-ND	Quad 2-Input OR Gate*	14-SOIC	.37	.30	.21
74ACT32SCXTR-ND	Quad 2-Input OR Gate*	14-SOIC	242.50/2,500		
74ACT74MTCXCT-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop*	14-TSSOP	.43	.35	.24
74ACT74MTCXTR-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop*	14-TSSOP	280.00/2,500		
74ACT74PC-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-Dip	.55	.44	.33
74ACT74SC-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	.43	.35	.24
74ACT74SCXCT-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop*	14-SOIC	.43	.35	.24
74ACT74SCXTR-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop*	14-SOIC	280.00/2,500		
74ACT109SC-ND	Dual JK Flip-Flop	16-SOIC	.50	.40	.30
74ACT125MTCXCT-ND	Tri-State Output Quad Buffer*	14-TSSOP	.47	.38	.26
74ACT125MTCXTR-ND	Tri-State Output Quad Buffer*	14-TSSOP	306.00/2,500		
74ACT125SC-ND	Tri-State Quad Buffer	14-SOIC	.47	.38	.26
74ACT138PC-ND	1-of-8 Decoder/Demultiplexer*	16-Dip	.52	.39	.30
74ACT138SC-ND	1-of-8 Decoder/Demultiplexer	16-SOIC	.45	.36	.27
74ACT138SCXCT-ND	1-of-8 Decoder/Demultiplexer*	16-SOIC	.45	.36	.27
74ACT138SCXTR-ND	1-of-8 Decoder/Demultiplexer*	16-SOIC	305.00/2,500		
74ACT139SC-ND	Dual 1-of-4 Decoder/Demultiplexer*	16-SOIC	.45	.36	.27
74ACT151PC-ND	8-Input Multiplexer	16-Dip	.52	.39	.30
74ACT157PC-ND	Quad 2-Input Multiplexer	16-Dip	.52	.39	.30
74ACT157SC-ND	Quad 2-Input Multiplexer	16-SOIC	.45	.36	.27
74ACT161SC-ND	Synchronous Presettable Binary Counter	16-SOIC	.50	.40	.30
74ACT163PC-ND	4-Bit Binary Counter Synchronous Receiver	16-Dip	.56	.42	.32
74ACT174SC-ND	Hex D-Type Flip-Flop with Master Reset	16-SOIC	.48	.38	.29
74ACT175SC-ND	Quad D-Type Flip-Flop	16-SOIC	.50	.40	.30
74ACT240PC-ND	Tri-State Octal Buffer/Line Driver*	20-Dip	.58	.44	.33
74ACT240SC-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.51	.41	.31
74ACT244MTCXCT-ND	Tri-State Octal Buffer/Line Driver*	20-TSSOP	.48	.39	.29
74ACT244MTCXTR-ND	Tri-State Octal Buffer/Line Driver*	20-TSSOP	324.00/2,500		
74ACT244PC-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.58	.44	.33
74ACT244SC-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.51	.41	.31
74ACT244SCXCT-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.51	.41	.31
74ACT244SCXTR-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	143.00/1,000		
74ACT245MTCXCT-ND	Tri-State Octal Bidirectional Transceiver*	20-TSSOP	.53	.42	.32
74ACT245MTCXTR-ND	Tri-State Octal Bidirectional Transceiver*	20-TSSOP	354.38/2,500		
74ACT245PC-ND	Tri-State Octal Bidirectional Transceiver*	20-Dip	.60	.46	.34
74ACT245SC-ND	Tri-State Octal Bidirectional Transceiver	20-SOIC	.58	.46	.35
74ACT245SCXCT-ND	Tri-State Octal Bidirectional Transceiver*	20-SOIC	.58	.46	.35
74ACT245SCXTR-ND	Tri-State Octal Bidirectional Transceiver*	20-SOIC	161.00/1,000		
74ACT251PC-ND	8-Bit Multiplexer	16-Dip	.52	.39	.30
74ACT251SC-ND	8-Bit Multiplexer	16-SOIC	.45	.36	.27
74ACT257SC-ND	Tri-State Quad 2-Input Multiplexer*	16-SOIC	.45	.36	.27
74ACT257SCXCT-ND	Tri-State Quad 2-Input Multiplexer*	16-SOIC	.45	.36	.27
74ACT257SCXTR-ND	Tri-State Quad 2-Input Multiplexer*	16-SOIC	305.00/2,500		
74ACT273MTC-ND	Octal D-Type Flip-Flop*	20-TSSOP	.50	.38	.29
74ACT373SC-ND	Tri-State Octal Transparent Latch	20-SOIC	.51	.41	.31
74ACT373SCXCT-ND	Tri-State Octal Transparent Latch*	20-SOIC	.51	.41	.31
74ACT373SCXTR-ND	Tri-State Octal Transparent Latch*	20-SOIC	143.00/1,000		
74ACT374SC-ND	Octal D-Type Flip-Flop	20-SOIC	.53	.42	.32
74ACT521SC-ND	8-Bit Identity Comparator*	20-SOIC	.52	.39	.30
74ACT541MTCXCT-ND	Tri-State Octal Buffer/Line Driver*	20-TSSOP	.52	.39	.30
74ACT541MTCXTR-ND	Tri-State Octal Buffer/Line Driver*	20-TSSOP	422.50/2,500		
74ACT541SC-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.56	.42	.32
74ACT573PC-ND	Tri-State Octal D-Type Latch	20-Dip	.64	.48	.36
74ACT573SCXCT-ND	Tri-State Octal D-Type Latch*	20-SOIC	.56	.42	.32
74ACT573SCXTR-ND	Tri-State Octal D-Type Latch*	20-SOIC	186.00/1,000		
74ACT574SC-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.56	.42	.32
74ACT899QC-ND	9-Bit Bidirectional Latch	28-PLCC	6.32	5.06	4.27
74ACT1284MSA-ND	IEEE 1284 Transceiver	20-SSOP	1.20	1.00	.80

74ACTQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ACTQ00SC-ND	Quad 2-Input NAND Gate, Quiet Series™*	14-SOIC	.84	.70	.56
74ACTQ10PC-ND	Triple 3-Input NAND Gate, Quiet Series™	14-Dip	1.14	.95	.76
74ACTQ14SC-ND	Hex Schmitt Trigger Inverting, Quiet Series™*	14-SOIC	.84	.70	.56
74ACTQ244SC-ND	Tri-State Octal Buffer/Line Driver, Quiet Series™*	20-SOIC	1.58	1.26	.95
74ACTQ245MTC-ND	Tri-St. Octal Bidirectional Transceiver, Quiet Series™*	20-TSSOP	1.58	1.26	.95
74ACTQ245MTCXCT-ND	Tri-St. Octal Bidirectional Transceiver, Quiet Series™*	20-TSSOP	1.58	1.26	.95
74ACTQ245MTCXTR-ND	Tri-St. Octal Bidirectional Transceiver, Quiet Series™*	20-TSSOP	2016.00/2,500		
74ACTQ245SC-ND	Tri-St. Octal Bidirectional Transceiver, Quiet Series™*	20-SOIC	1.58	1.26	.95
74ACTQ245SCXCT-ND	Tri-St. Octal Bidirectional Transceiver, Quiet Series™*	20-SOIC	1.58	1.26	.95
74ACTQ245SCXTR-ND	Tri-St. Octal Bidirectional Transceiver, Quiet Series™*	20-SOIC	819.00/1,000		
74ACTQ273SC-ND	Octal D-Type Flip-Flop*	20-SOIC	1.58	1.26	.95
74ACTQ541MTCXCT-ND	Tri-St. Output Quiet Series™ Octal Buffer/Line Driver*	20-TSSOP	1.58	1.26	.95
74ACTQ541MTCXTR-ND	Tri-St. Output Quiet Series™ Octal Buffer/Line Driver*	20-TSSOP	2016.00/2,500		
74ACTQ541SCXCT-ND	Tri-St. Output Quiet Series™ Octal Buffer/Line Driver*	20-SOIC	1.58	1.26	.95
74ACTQ541SCXTR-ND	Tri-St. Output Quiet Series™ Octal Buffer/Line Driver*	20-SOIC	819.00/1,000		
74ACTQ573SCXCT-ND	Tri-State Output Quiet Series™ Octal Latch*	20-SOIC	1.58	1.26	.95
74ACTQ573SCXTR-ND	Tri-State Output Quiet Series™ Octal Latch*	20-SOIC	819.00/1,000		
74ACTQ574SC-ND	Tri-State Output Quiet Series™ Octal D-Type Flip-Flop*	20-SOIC	1.58	1.26	.95
74ACTQ574SCXCT-ND	Tri-State Output Quiet Series™ Octal D-Type Flip-Flop*	20-SOIC	1.58	1.26	.95
74ACTQ574SCXTR-ND	Tri-State Output Quiet Series™ Octal D-Type Flip-Flop*	20-SOIC	837.90/1,000		
74ACTQ16244SSC-ND	Tri-State Output 16-Bit Buffer/Line Driver*	48-SSOP	3.38	2.70	2.10
74ACTQ16244SSCXCT-ND	Tri-State Output 16-Bit Buffer/Line Driver*	48-SSOP	3.38	2.70	2.10
74ACTQ16244SSCXTR-ND	Tri-State Output 16-Bit Buffer/Line Driver*	48-SSOP	1913.00/1,000		
74ACTQ16245SSC-ND	Tri-State Output 16-Bit Transceiver*	48-SSOP	3.38	2.70	2.10
74ACTQ16245SSCXCT-ND	Tri-State Output 16-Bit Transceiver*	48-SSOP	3.38	2.70	2.10
74ACTQ16245SSCXTR-ND	Tri-State Output 16-Bit Transceiver*	48-SSOP	1913.00/1,000		
74ACTQ16373SSCXCT-ND	Tri-State Output 16-Bit Transparent Latch*	48-SSOP	3.38	2.70	2.10
74ACTQ16373SSCXTR-ND	Tri-State Output 16-Bit Transparent Latch*	48-SSOP	1913.00/1,000		
74ACTQ16374SSC-ND	16-Bit D-Type Flip-Flop*	48-SSOP	3.38	2.70	2.10
74ACTQ16541SSCXCT-ND	Tri-State 16-Bit Buffer/Line Driver*	48-SSOP	3.38	2.70	2.10
74ACTQ16541SSCXTR-ND	Tri-State 16-Bit Buffer/Line Driver*	48-SSOP	1912.50/1,000		

74ALS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DM74ALS00AN-ND	Quad 2-Input NAND Gate*	14-Dip	.55	.44	.33
DM74ALS04BM-ND	Hex Inverter	14-SOIC	.45	.36	.27
DM74ALS04BN-ND	Hex Inverter*	14-Dip	.55	.44	.33
DM74ALS32N-ND	Quad 2-Input OR Gate*	14-Dip	.55	.44	.33
DM74ALS74AN-ND	DL D-Type Pos.-Edge-Triggered F/F with Preset and Clear*	14-Dip	.56	.42	.32
DM74ALS138M-ND	Expandable 3/8 Decoder*	16-SOIC	.56	.42	.32
DM74ALS244AN-ND	Tri-State Octal Line Driver	20-Dip	.84	.63	.48
DM74ALS244AWM-ND	Tri-State Octal Line Driver*	20-SOIC	.72	.54	.41
DM74ALS245AN-ND	Tri-State Octal Bus Transceiver*	20-Dip	.84	.63	.48
DM74ALS245AWM-ND	Tri-State Octal Bus Transceiver*	20-SOIC	.72	.54	.41
DM74ALS373N-ND	Octal D-Type Latch*	20-Dip	.84	.63	.48
DM74ALS540AN-ND	Octal Inverting Buffer and Line Driver	20-Dip	.81	.68	.54
DM74ALS541N-ND	Octal Buffer/Line Driver with Tri-State Output*	20-Dip	.81	.68	.54
DM74ALS541WM-ND	Octal Buffer/Line Driver with Tri-State Output*	20-SOIC	.96	.72	.54
DM74ALS574AN-ND	Octal D-Type Flip-Flop*	20-Dip	.81	.68	.54
DM74ALS574AWM-ND	Octal D-Type Flip-Flop	20-SOIC	.96	.72	.54

74ALVC SERIES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74ALVC16244GXCT-ND	Low Voltage 16-Bit Buffer/Line Driver	54-FBGA	2.25	1.80	1.40
74ALVC16244GXTR-ND	Low Voltage 16-Bit Buffer/Line Driver	54-FBGA	3150.00/2,500		

74AS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DM74AS02N-ND	Quad 2-Input NOR Gate	14-Dip	.92	.76	.64
DM74AS10N-ND	Triple 3-Input NAND Gate	14-Dip	.80	.60	.45
DM74AS20N-ND	Dual 4-Input NAND Gate	14-Dip	.92	.76	.64
DM74AS258N-ND	Tri-State Quad 2/1 Multiplexer	16-Dip	1.30	1.04	.78
DM74AS286N-ND	9-Bit Parity Generator/Checker	14-Dip	1.40	1.17	.94
DM74AS648NT-ND	Octal Bus Transceiver	24-Dip .3"	5.40	4.32	3.36
DM74AS1034AM-ND	Hex Non-Inverting Driver*	14-SOIC	1.20	1.00	.80

74C00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MM74C00N-ND	Quad 2-Input NAND Gate	14-Dip	1.35	1.08	.81
MM74C04N-ND	Hex Inverter (4069)	14-Dip	1.35	1.08	.81
MM74C14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.75	.63	.50
MM74C14N-ND	Hex Schmitt Trigger Inverter (40106B)	14-Dip	.75	.63	.50
MM74C74M-ND	Dual D-Type Flip Flop	14-SOIC	1.90	1.52	1.14
MM74C74N-ND	Dual D-Type Flip Flop	14-Dip	1.90	1.52	1.14
MM74C221N-ND	Dual Monostable with Schmitt Trigger	16-Dip	4.34	3.48	2.71
MM74C240N-ND	Tri-State Inverting Octal Buffer/Line Driver*	20-Dip	3.98	3.19	2.48
MM74C244N-ND	Tri-State Octal Buffer	20-Dip	3.98	3.19	2.48
MM74C373N-ND	Tri-State Octal D-Type Latch*	20-Dip	3.89	3.12	2.43
MM74C906M-ND	Hex Open Drain N-Channel Buffer	14-SOIC	2.15	1.72	1.29
MM74C906MXCT-ND	Hex Open Drain N-Channel Buffer*	14-SOIC	2.15	1.72	1.29
MM74C906MXTR-ND	Hex Open Drain N-Channel Buffer*	14-SOIC	2752.50/2,500		
MM74C906N-ND	Open Drain Buffer (Active Pull Down)	14-Dip	2.15	1.72	1.29
MM74C914M-ND	Hex Schmitt Trigger with Extended Input Voltage*	14-SOIC	3.15	2.52	1.96

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

74C00 SERIES CMOS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MM74C914N-ND	Hex Schmitt Trigger with Extended Input Voltage	14-Dip	3.15	2.52	1.96
MM74C922N-ND	16-Key Encoder	18-Dip	6.20	4.96	4.19
MM74C922WM-ND	16-Key Encoder*	20-SOIC	6.20	4.96	4.19
MM74C923N-ND	3V to 15V, 20-Key Encoder	20-Dip	6.20	4.96	4.19
MM74C923WM-ND	3V to 15V, 20-Key Encoder	20-SOIC	6.20	4.96	4.19
MM74C926N-ND	4-Digit Counter with 7-Segment Output Driver	18-Dip	8.83	7.95	7.05
MM74C928N-ND	4-Digit Counter with 7-Segment Output Driver	18-Dip	9.02	7.22	6.09
MM88C30N-ND	CMOS Dual Line Driver	14-Dip	5.00	4.00	3.38

74F – FAST™ ADVANCED SCHOTTKY TTL LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74F00PC-ND	Quad 2-Input NAND Gate	14-Dip	.55	.44	.33
74F00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.43	.34	.26
74F02PC-ND	Quad 2-Input NOR Gate*	14-Dip	.50	.40	.30
74F02SC-ND	Quad 2-Input NOR Gate*	14-SOIC	.50	.40	.30
74F04PC-ND	Hex Inverter	14-Dip	.55	.44	.33
74F04SC-ND	Hex Inverter	14-SOIC	.43	.34	.26
74F08PC-ND	Quad 2-Input AND Gate	14-Dip	.55	.44	.33
74F08SC-ND	Quad 2-Input AND Gate	14-SOIC	.43	.34	.26
74F14SC-ND	Hex Inverter Schmitt Trigger	14-SOIC	.48	.38	.29
74F32SC-ND	Quad 2-Input OR Gate	14-SOIC	.43	.34	.26
74F38PC-ND	Quad 2-Input NAND Buffer*	14-Dip	.48	.36	.27
74F38SC-ND	Quad 2-Input NAND Buffer	14-SOIC	.48	.38	.29
74F74PC-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-Dip	.48	.36	.27
74F74SC-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	.48	.38	.29
74F86SC-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.55	.44	.33
74F109PC-ND	Dual JK Positive-Edge-Triggered Flip-Flop	16-Dip	.56	.42	.32
74F112PC-ND	Dual JK Negative-Edge-Triggered Flip-Flop	16-Dip	.56	.42	.32
74F125PC-ND	Tri-State Quad Buffer	14-Dip	.58	.44	.33
74F125SC-ND	Tri-State Quad Buffer	14-SOIC	.50	.38	.29
74F138PC-ND	1-of-8 Decoder/Demultiplexer	16-Dip	.58	.44	.33
74F138SC-ND	1-of-8 Decoder/Demultiplexer*	16-SOIC	.52	.39	.30
74F139SC-ND	Dual 1-of-4 Decoder/Demultiplexer*	16-SOIC	.52	.39	.30
74F157ASC-ND	Quad 2-Input Multiplexer	16-SOIC	.52	.39	.30
74F161APC-ND	Synchronous Presettable 4-Bit Binary Counter	16-Dip	.76	.57	.43
74F175SC-ND	Quad D-Type Flip-Flop	16-SOIC	.68	.51	.39
74F189SC-ND	64-Bit Random Access Memory	16-SOIC	4.00	3.24	2.62
74F244PC-ND	Tri-State Octal Line Driver	20-Dip	.80	.60	.45
74F244SC-ND	Tri-State Octal Line Driver	20-SOIC	.68	.51	.39
74F245PC-ND	Tri-State Octal Bus Transceiver	20-Dip	.76	.57	.43
74F245SC-ND	Tri-State Octal Bus Transceiver	20-SOIC	.68	.51	.39
74F258APC-ND	Tri-State Quad 2/1 Multiplexer	16-Dip	.57	.43	.33
74F269SPC-ND	8-Bit Up/Down Counter	24-Dip	1.17	.98	.78
74F273PC-ND	Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
74F373PC-ND	Octal Transparent Latch	20-Dip	.76	.57	.43
74F373SC-ND	Octal Transparent Latch	20-SOIC	.64	.48	.36
74F374SC-ND	Octal D-Type Flip-Flop	20-SOIC	.68	.51	.39
74F521SC-ND	8-Bit Identity Comparator*	20-SOIC	.92	.69	.52
74F541SC-ND	Octal Buffer/Line Driver	20-SOIC	.82	.69	.55
74F552QC-ND	Octal Bidirectional Transceiver	28-PLCC	9.45	7.57	6.31
74F573SC-ND	Octal D-Type Latch	20-SOIC	.92	.69	.52
74F574SC-ND	Octal D-Type Flip-Flop	20-SOIC	.87	.73	.58
74F579PC-ND	8-Bit Bidirectional Counter	20-Dip	1.95	1.56	1.17
74F675APC-ND	16-Bit Serial-In, Serial/Parallel-Out Shift Register	24-Dip	9.80	7.84	6.62

74HC00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MM74HC00M-ND	Quad 2-Input NAND Gate	14-SOIC	.40	.32	.22
MM74HC00MXCT-ND	Quad 2-Input NAND Gate*	14-SOIC	.40	.32	.22
MM74HC00MXTR-ND	Quad 2-Input NAND Gate*	14-SOIC	225.00/2,500		
MM74HC00N-ND	Quad 2-Input NAND Gate	14-Dip	.45	.36	.27
MM74HC02M-ND	Quad 2-Input NOR Gate	14-SOIC	.40	.32	.22
MM74HC02MXCT-ND	Quad 2-Input NOR Gate*	14-SOIC	.40	.32	.22
MM74HC02MXTR-ND	Quad 2-Input NOR Gate*	14-SOIC	225.00/2,500		
MM74HC02N-ND	Quad 2-Input NOR Gate	14-Dip	.45	.36	.27
MM74HC04M-ND	Hex Inverter	14-SOIC	.40	.32	.22
MM74HC04MXCT-ND	Hex Inverter*	14-SOIC	.38	.30	.22
MM74HC04MXTR-ND	Hex Inverter*	14-SOIC	215.00/2,500		
MM74HC04N-ND	Hex Inverter	14-Dip	.45	.36	.27
MM74HC08M-ND	Quad 2-Input AND Gate	14-SOIC	.40	.32	.22
MM74HC08MXCT-ND	Quad 2-Input AND Gate*	14-SOIC	.38	.30	.22
MM74HC08MXTR-ND	Quad 2-Input AND Gate*	14-SOIC	215.00/2,500		
MM74HC08N-ND	Quad 2-Input AND Gate	14-Dip	.45	.36	.27
MM74HC14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.42	.33	.23
MM74HC14MXCT-ND	Hex Inverting Schmitt Trigger*	14-SOIC	.42	.33	.23
MM74HC14MXTR-ND	Hex Inverting Schmitt Trigger*	14-SOIC	235.00/2,500		
MM74HC14N-ND	Hex Schmitt Trigger Inverter	14-Dip	.45	.36	.27
MM74HC32M-ND	Quad 2-Input OR Gate	14-SOIC	.40	.32	.22
MM74HC32MXCT-ND	Quad 2-Input OR Gate*	14-SOIC	.40	.32	.22
MM74HC32MXTR-ND	Quad 2-Input OR Gate*	14-SOIC	225.00/2,500		
MM74HC32N-ND	Quad 2-Input OR Gate	14-Dip	.45	.36	.27
MM74HC74AM-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOIC	.42	.33	.23
MM74HC74AMXCT-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-SOIC	.42	.33	.23
MM74HC74AMXTR-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-SOIC	235.00/2,500		
MM74HC74AN-ND	Dual D-Type Flip Flop with Preset and Clear	14-Dip	.45	.36	.27
MM74HC86MFS-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	.42	.33	.23
MM74HC86MXCT-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	.38	.30	.22
MM74HC86MXTR-ND	Quad 2-Input Exclusive OR Gate*	14-SOIC	216.00/2,500		
MM74HC86N-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.45	.36	.27
MM74HC123AM-ND	Dual Monostable Multivibrator	16-SOIC	.58	.46	.35
MM74HC123AN-ND	Dual Monostable Multivibrator	16-Dip	.56	.42	.32
MM74HC125M-ND	Tri-State Quad Buffer	14-SOIC	.42	.33	.23
MM74HC125MTCXCT-ND	Tri-State Quad Buffer*	14-TSSOP	.36	.29	.20
MM74HC125MTCXTR-ND	Tri-State Quad Buffer*	14-TSSOP	233.75/2,500		
MM74HC125N-ND	Tri-State Quad Buffer	14-Dip	.50	.40	.30
MM74HC126M-ND	Tri-State Quad Buffer	14-SOIC	.42	.33	.23
MM74HC126N-ND	Tri-State Quad Buffer	14-Dip	.48	.38	.29
MM74HC132M-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.42	.33	.23
MM74HC132N-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.48	.38	.29
MM74HC138M-ND	3-to-8 Line Decoder	16-SOIC	.40	.32	.24
MM74HC138MXCT-ND	3-to-8 Line Decoder*	16-SOIC	.50	.41	.28
MM74HC138MXTR-ND	3-to-8 Line Decoder*	16-SOIC	327.50/2,500		
MM74HC138N-ND	3-to-8 Line Decoder	16-Dip	.57	.46	.34
MM74HC151N-ND	8-Channel Multiplexer	16-Dip	.50	.38	.29
MM74HC154N-ND	4-to-16 Line Decoder (.3” Lead Spacing)	24-Dip	.96	.80	.64
MM74HC154WM-ND	4-to-16 Line Decoder	24-SOIC	.72	.54	.41
MM74HC157MXCT-ND	Quad 2-Input Multiplexer*	16-SOIC	.53	.42	.32
MM74HC157MXTR-ND	Quad 2-Input Multiplexer*	16-SOIC	354.38/2,500		
MM74HC157N-ND	Quad 2-Input Multiplexer	16-Dip	.50	.38	.29
MM74HC164MXCT-ND	8-Bit Serial-In/Parallel-Out Shift Register*	14-SOIC	.46	.37	.26
MM74HC164MXTR-ND	8-Bit Serial-In/Parallel-Out Shift Register*	14-SOIC	297.50/2,500		
MM74HC164N-ND	8-Bit Serial-In Parallel-Out Shift Register	14-Dip	.54	.41	.31
MM74HC165M-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC	.55	.44	.33
MM74HC165N-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.54	.41	.31
MM74HC174N-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.52	.39	.30
MM74HC175N-ND	Quad D-Type Flip-Flop with Clear	16-Dip	.52	.39	.30
MM74HC240MTCXCT-ND	Tri-State Octal Inverter Bus/Line Driver*	20-TSSOP	.43	.34	.26
MM74HC240MTCXTR-ND	Tri-State Octal Inverter Bus/Line Driver*	20-TSSOP	287.50/2,500		
MM74HC240N-ND	Tri-State Octal Inverter Bus/Line Driver	20-Dip	.58	.46	.35
MM74HC240WMXCT-ND	Tri-State Octal Inverter Bus/Line Driver*	20-SOIC	.41	.33	.25
MM74HC240WMXTR-ND	Tri-State Octal Inverter Bus/Line Driver*	20-SOIC	114.80/1,000		
MM74HC244N-ND	Tri-State Octal Buffer	20-Dip	.58	.46	.35
MM74HC244WM-ND	Tri-State Octal Buffer	20-SOIC	.41	.33	.25
MM74HC244WMXCT-ND	Tri-State Octal Buffer*	20-SOIC	.41	.33	.25
MM74HC244WMXTR-ND	Tri-State Octal Buffer*	20-SOIC	115.00/1,000		
MM74HC245AMTCXCT-ND	Tri-State Octal Bus Transceiver*	20-TSSOP	.41	.33	.25
MM74HC245AMTCXTR-ND	Tri-State Octal Bus Transceiver*	20-TSSOP	277.50/2,500		
MM74HC245AN-ND	Tri-State Octal Bus Transceiver	20-Dip	.58	.47	.35
MM74HC245AWM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.44	.35	.27
MM74HC251MXCT-ND	8-Channel Tri-State Multiplexer*	16-SOIC	.43	.34	.26
MM74HC251MXTR-ND	8-Channel Tri-State Multiplexer*	16-SOIC	286.88/2,500		
MM74HC251N-ND	8-Channel Tri-State Multiplexer	16-Dip	.50	.38	.29
MM74HC259M-ND	8-Bit Addressable Latch/3-to-8 Line Decoder	16-SOIC	.50	.40	.30
MM74HC259MXCT-ND	8-Bit Addressable Latch/3-to-8 Line Decoder*	16-SOIC	.50	.40	.30
MM74HC259MXTR-ND	8-Bit Addressable Latch/3-to-8 Line Decoder*	16-SOIC	337.50/2,500		
MM74HC259N-ND	8-Bit Addressable Latch/3-to-8 Line Decoder	16-Dip	.50	.38	.29
MM74HC273N-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.57	.46	.34
MM74HC273WM-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.41	.33	.25
MM74HC273WMXCT-ND	Octal D-Type Flip-Flop with Clear*	20-SOIC	.43	.35	.26
MM74HC273WMXTR-ND	Octal D-Type Flip-Flop with Clear*	20-SOIC	120.00/1,000		
MM74HC373N-ND	Tri-State Octal D-Type Latch	20-Dip	.58	.46	.35
MM74HC373WM-ND	Tri-State Octal D-Type Latch	20-SOIC	.43	.35	.26
MM74HC373WMXCT-ND	Tri-State Octal D-Type Latch*	20-SOIC	.43	.35	.26
MM74HC373WMXTR-ND	Tri-State Octal D-Type Latch*	20-SOIC	120.00/1,000		
MM74HC374N-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.58	.46	.35
MM74HC374WM-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.43	.35	.26
MM74HC374WMXCT-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	.43	.35	.26
MM74HC374WMXTR-ND	Tri-State Octal D-Type Flip-Flop*	20-SOIC	120.00/1,000		
MM74HC393M-ND	Dual 4-Bit Binary Counter	14-SOIC	.53	.42	.32
MM74HC393N-ND	Dual 4-Bit Binary Counter	14-Dip	.56	.42	.32
MM74HC540N-ND	Octal Inverting Buffer and Line Driver	20-Dip	.50	.38	.29
MM74HC541N-ND	Tri-State Octal Buffer	20-Dip	.50	.38	.29
MM74HC541WM-ND	Tri-State Octal Buffer	20-SOIC	.45	.36	.27
MM74HC573N-ND	Tri-State Octal D-Type Latch	20-Dip	.50	.38	.29
MM74HC573WM-ND	Tri-State Octal D-Type Latch	20-SOIC	.45	.36	.27
MM74HC573WMXCT-ND	Tri-State Octal D-Type Latch*	20-SOIC	.43	.35	.26
MM74HC573WMXTR-ND	Tri-State Octal D-Type Latch*	20-SOIC	120.00/1,000		
MM74HC574N-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.50	.38	.29
MM74HC574WM-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.45	.36	.27
MM74HC594MXCT-ND	8-Bit Shift Register with Output Registers*	16-SOIC	.74	.56	.42
MM74HC594MXTR-ND	8-Bit Shift Register with Output Registers*	16-SOIC	602.50/2,500		
MM74HC595M-ND	8-Bit Shift Register with Output Latches	16-SOIC	.51	.41	.29
MM74HC595MTCXCT-ND	8-Bit Shift Register with Output Latches*	16-TSSOP	.51	.41	.29
MM74HC595MTCXTR-ND	8-Bit Shift Register with Output Latches*	16-TSSOP	332.50/2,500		
MM74HC595MXCT-ND	8-Bit Shift Register with Output Latches*	16-SOIC	.46	.37	.26
MM74HC595MXTR-ND	8-Bit Shift Register with Output Latches*	16-SOIC	297.50/2,500		
MM74HC595N-ND	8-Bit Shift Register with Output Latches	16-Dip	.48	.36	.27
MM74HC688N-ND	8-Bit Magnitude Comparator (Equality Detector)	20-Dip	.60	.45	.34
MM74HC4040M-ND	12-Stage Binary Counter	16-SOIC	.58	.46	.35
MM74HC4040N-ND	12-Stage Binary Counter	16-Dip	.60	.45	.34
MM74HC4046M-ND	CMOS Phase-Lock-Loop	16-SOIC	.58	.46	.35
MM74HC4046N-ND	CMOS Phase-Lock-Loop	16-Dip	.60	.45	.34
MM74HC4049N-ND	Hex Inverting Logic Level Down Converter	16-Dip	.60	.45	.34
MM74HC4051M-ND	8-Channel Analog Multiplexer	16-SOIC	.52	.39	.30
MM74HC4051MXCT-ND	8-Channel Analog Multiplexer*	16-SOIC	.52	.39	.30
MM74HC4051MXTR-ND	8-Channel Analog Multiplexer*	16-SOIC	422.50/2,500		
MM74HC4051N-ND	8-Channel Analog Multiplexer	16-Dip	.68	.51	.39
MM74HC4051WM-ND	8-Channel Analog Multiplexer	16-SOIC	.78	.65	.52
MM74HC4052M-ND	Dual 4-Channel Analog Multiplexer*	16-SOIC	.52	.39	.30
MM74HC4052MXCT-ND	Dual 4-Channel Analog Multiplexer*	16-SOIC	.52	.39	.30
MM74HC4052MXTR-ND	Dual 4-Channel Analog Multiplexer*	16-SOIC	422.50/2,500		
MM74HC4052N-ND	Dual 4-Channel Analog Multiplexer	16-Dip	.68	.51	.39
MM74HC4053M-ND	Triple 2-Channel Analog Multiplexer	16-SOIC	.52	.39	.30
MM74HC4053N-ND	Triple 2-Channel Analog Multiplexer	16-Dip	.68	.51	.39
MM74HC4053WM-ND	Triple 2-Channel Analog Multiplexer	16-SOIC	.78	.65	.52
MM74HC4060M-ND	14-Stage Binary Counter*	16-SOIC	.52	.39	.30
MM74HC4060N-ND	14-Stage Binary Counter	16-Dip	.68	.51	.39
MM74HC4066N-ND	Quad Analog Switch	14-Dip	.68	.51	.39
MM74HC4316N-ND	Quad Analog Switch	16-Dip	.60	.45	.34
MM74HC4316WM-ND	Quad Analog Switch	16-SOIC	.87	.73	.58
MM74HC4514N-ND	4-to-16 Line Decoder with Latch (.3” Lead Spacing)	24-Dip	1.14	.95	.76
MM74HC4538MXCT-ND	Dual Retriggerable Monostable Multivibrator*	16-SOIC	.48	.36	.27
MM74HC4538MXTR-ND	Dual Retriggerable Monostable Multivibrator*	16-SOIC	390.00/2,500		
MM74HC4538N-ND	Dual Retriggerable Monostable Multivibrator	16-Dip	.60	.45	.34

74HCT00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MM74HCT04M-ND	Hex Inverter*	14-SOIC	.42	.34	.24
MM74HCT04MXCT-ND	Hex Inverter*	14-SOIC	.38	.30	.22
MM74HCT04MXTR-ND	Hex Inverter*	14-SOIC	216.00/2,500		
MM74HCT04N-ND	Hex Inverter	14-Dip	.45	.36	.27
MM74HCT08M-ND	Quad 2-Input AND Gate*	14-SOIC	.40	.32	.22

***RoHS Compliant**

(Continued)

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74HCT00 SERIES CMOS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MM74HCT14M-ND	Hex Inverting Schmitt Trigger*	14-SOIC	.42	.33	.23
MM74HCT138N-ND	3-to-8 Line Decoder*	16-Dip	.50	.38	.29
MM74HCT244WMXCT-ND	Tri-State Octal Buffer*	20-SOIC	.41	.33	.25
MM74HCT244WMXTR-ND	Tri-State Octal Buffer*	20-SOIC	115.00/1,000		
MM74HCT244N-ND	Tri-State Octal Buffer	20-Dip	.58	.46	.35
MM74HCT244WM-ND	Tri-State Octal Buffer	20-SOIC	.41	.33	.25
MM74HCT245N-ND	Tri-State Octal Bus Transceiver	20-Dip	.58	.47	.35
MM74HCT245WM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.43	.35	.26
MM74HCT273N-ND	Octal D-Type Flip-Flop with Clear*	20-Dip	.58	.46	.35
MM74HCT373N-ND	Tri-State Octal D-Type Latch	20-Dip	.58	.46	.35
MM74HCT373WMXCT-ND	Tri-State Octal D-Type Latch*	20-SOIC	.43	.35	.26
MM74HCT373WMXTR-ND	Tri-State Octal D-Type Latch*	20-SOIC	120.00/1,000		
MM74HCT374N-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.58	.46	.35
MM74HCT541N-ND	Tri-State Octal Buffer	20-Dip	.50	.38	.29

74LCX SERIES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LCX00M-ND	Low Voltage Quad 2-Input NAND Gate	14-SOIC	.42	.33	.23
74LCX00MTCXCT-ND	Low Voltage Quad 2-Input NAND Gate	14-TSSOP	.39	.32	.22
74LCX00MTCXTR-ND	Low Voltage Quad 2-Input NAND Gate	14-TSSOP	255.00/2,500		
74LCX00MXCT-ND	Low Voltage Quad 2-Input NAND Gate	14-SOIC	.42	.33	.23
74LCX00MXTR-ND	Low Voltage Quad 2-Input NAND Gate	14-SOIC	234.00/2,500		
74LCX02MTCXCT-ND	Low Voltage Quad 2-Input NOR Gate	14-TSSOP	.55	.44	.33
74LCX02MTCXTR-ND	Low Voltage Quad 2-Input NOR Gate	14-TSSOP	371.25/2,500		
74LCX04M-ND	Low Voltage Hex Inverter	14-SOIC	.42	.33	.23
74LCX04MTC-ND	Low Voltage Hex Inverter	14-TSSOP	.36	.29	.20
74LCX04MTCXCT-ND	Low Voltage Hex Inverter	14-TSSOP	.36	.29	.20
74LCX04MTCXTR-ND	Low Voltage Hex Inverter	14-TSSOP	233.75/2,500		
74LCX04MXCT-ND	Low Voltage Hex Inverter	14-SOIC	.42	.33	.23
74LCX04MXTR-ND	Low Voltage Hex Inverter	14-SOIC	234.00/2,500		
74LCX07M-ND	Low Voltage Hex Buffer, Open Drain Output	14-SOIC	.42	.33	.23
74LCX07MTC-ND	Low Voltage Hex Buffer, Open Drain Output	14-TSSOP	.36	.29	.20
74LCX07MTCXCT-ND	Low Voltage Hex Buffer, Open Drain Output	14-TSSOP	.36	.29	.20
74LCX07MTCXTR-ND	Low Voltage Hex Buffer, Open Drain Output	14-TSSOP	233.75/2,500		
74LCX08M-ND	Low Voltage Quad 2-Input AND Gate	14-SOIC	.42	.33	.23
74LCX08MTC-ND	Low Voltage Quad 2-Input AND Gate	14-TSSOP	.36	.29	.20
74LCX08MTCXCT-ND	Low Voltage Quad 2-Input AND Gate	14-TSSOP	.36	.29	.20
74LCX08MTCXTR-ND	Low Voltage Quad 2-Input AND Gate	14-TSSOP	235.00/2,500		
74LCX08MXCT-ND	Low Voltage Quad 2-Input AND Gate	14-SOIC	.42	.33	.23
74LCX08MXTR-ND	Low Voltage Quad 2-Input AND Gate	14-SOIC	234.00/2,500		
74LCX11MTCXCT-ND	Low Voltage Triple 3-Input AND Gate	14-TSSOP	.39	.32	.22
74LCX11MTCXTR-ND	Low Voltage Triple 3-Input AND Gate	14-TSSOP	255.00/2,500		
74LCX14M-ND	Low Voltage Hex Inverter	14-SOIC	.36	.30	.21
74LCX14MTC-ND	Low Voltage Hex Inverter	14-TSSOP	.36	.30	.21
74LCX14MTCXCT-ND	Low Voltage Hex Inverter	14-TSSOP	.36	.30	.21
74LCX14MTCXTR-ND	Low Voltage Hex Inverter	14-TSSOP	238.00/2,500		
74LCX14MXCT-ND	Low Voltage Hex Inverter	14-SOIC	.36	.30	.21
74LCX14MXTR-ND	Low Voltage Hex Inverter	14-SOIC	238.00/2,500		
74LCX32BQXCT-ND	Low Voltage Quad 2-Input OR Gate	14-DQFN	.72	.54	.41
74LCX32BQXTR-ND	Low Voltage Quad 2-Input OR Gate	14-DQFN	702.00/3,000		
74LCX32M-ND	Low Voltage Quad 2-Input OR Gate	14-SOIC	.42	.33	.23
74LCX32MTC-ND	Low Voltage Quad 2-Input OR Gate	14-TSSOP	.39	.32	.22
74LCX32MTCXCT-ND	Low Voltage Quad 2-Input OR Gate	14-TSSOP	.39	.32	.22
74LCX32MTCXTR-ND	Low Voltage Quad 2-Input OR Gate	14-TSSOP	255.00/2,500		
74LCX32MXCT-ND	Low Voltage Quad 2-Input OR Gate	14-SOIC	.42	.33	.23
74LCX32MXTR-ND	Low Voltage Quad 2-Input OR Gate	14-SOIC	234.00/2,500		
74LCX38MTCXCT-ND	Low Voltage Quad 2-Input NAND Gate	14-TSSOP	.55	.44	.33
74LCX38MTCXTR-ND	Low Voltage Quad 2-Input NAND Gate	14-TSSOP	371.25/2,500		
74LCX74M-ND	Low Voltage Dual D-Type Positive Edge-Triggered F/F	14-SOIC	.38	.31	.21
74LCX74MTC-ND	Low Voltage Dual D-Type Positive Edge-Triggered F/F	14-TSSOP	.39	.32	.22
74LCX74MXCT-ND	Low Voltage Dual D-Type Positive Edge-Triggered F/F	14-SOIC	.36	.30	.21
74LCX74MXTR-ND	Low Voltage Dual D-Type Positive Edge-Triggered F/F	14-SOIC	238.00/2,500		
74LCX86MTCXCT-ND	Low Voltage Quad 2-Input Exclusive OR Gate	14-TSSOP	.37	.30	.21
74LCX86MTCXTR-ND	Low Voltage Quad 2-Input Exclusive OR Gate	14-TSSOP	242.25/2,500		
74LCX112MXCT-ND	Low Voltage Dual J-K Negative Edge-Triggered F/F	16-SOIC	.46	.37	.26
74LCX112MXTR-ND	Low Voltage Dual J-K Negative Edge-Triggered F/F	16-SOIC	297.50/2,500		
74LCX125M-ND	Low Voltage Quad Buffer	14-SOIC	.39	.32	.22
74LCX125MTC-ND	Low Voltage Quad Buffer	14-TSSOP	.39	.32	.22
74LCX125MTCXCT-ND	Low Voltage Quad Buffer	14-TSSOP	.36	.29	.20
74LCX125MTCXTR-ND	Low Voltage Quad Buffer	14-TSSOP	235.00/2,500		
74LCX125MXCT-ND	Low Voltage Quad Buffer	14-SOIC	.42	.34	.24
74LCX125MXTR-ND	Low Voltage Quad Buffer	14-SOIC	238.50/2,500		
74LCX126BQXCT-ND	Low Voltage Quad Buffer	14-DQFN	.60	.45	.34
74LCX126BQXTR-ND	Low Voltage Quad Buffer	14-DQFN	585.00/3,000		
74LCX138M-ND	Low Voltage 1-of-8 Decoder/Demultiplexer	16-SOIC	.49	.40	.27
74LCX138MTC-ND	Low Voltage 1-of-8 Decoder/Demultiplexer	16-TSSOP	.49	.40	.27
74LCX138MTCXCT-ND	Low Voltage 1-of-8 Decoder/Demultiplexer	16-TSSOP	.49	.40	.27
74LCX138MTCXTR-ND	Low Voltage 1-of-8 Decoder/Demultiplexer	16-TSSOP	318.75/2,500		
74LCX157MTC-ND	Low Voltage Quad 2-Input Multiplexer	16-TSSOP	.49	.40	.27
74LCX157MTCXCT-ND	Low Voltage Quad 2-Input Multiplexer	16-TSSOP	.49	.40	.27
74LCX157MTCXTR-ND	Low Voltage Quad 2-Input Multiplexer	16-TSSOP	318.75/2,500		
74LCX240MTCXCT-ND	Low Voltage Octal Buffer/Line Driver	20-TSSOP	.40	.32	.24
74LCX240MTCXTR-ND	Low Voltage Octal Buffer/Line Driver	20-TSSOP	270.00/2,500		
74LCX244MSAXCT-ND	Low Voltage Buffer/Line Driver	20-SSOP	.82	.62	.46
74LCX244MSAXTR-ND	Low Voltage Buffer/Line Driver	20-SSOP	542.64/2,000		
74LCX244MTC-ND	Low Voltage Buffer/Line Driver	20-TSSOP	.40	.32	.24
74LCX244MTCXCT-ND	Low Voltage Buffer/Line Driver	20-TSSOP	.49	.40	.27
74LCX244MTCXTR-ND	Low Voltage Buffer/Line Driver	20-TSSOP	320.00/2,500		
74LCX244WM-ND	Low Voltage Buffer/Line Driver	20-SOIC	.50	.40	.30
74LCX244WMXCT-ND	Low Voltage Buffer/Line Driver	20-SOIC	.50	.40	.30
74LCX244WMXTR-ND	Low Voltage Buffer/Line Driver	20-SOIC	140.00/1,000		
74LCX245MTC-ND	Low Voltage Bidirectional Transceiver	20-TSSOP	.44	.36	.27
74LCX245MTCXCT-ND	Low Voltage Bidirectional Transceiver	20-TSSOP	.40	.32	.24
74LCX245MTCXTR-ND	Low Voltage Bidirectional Transceiver	20-TSSOP	270.00/2,500		
74LCX245WM-ND	Low Voltage Bidirectional Transceiver	20-SOIC	.53	.42	.32
74LCX245WMXCT-ND	Low Voltage Bidirectional Transceiver	20-SOIC	.53	.42	.32
74LCX245WMXTR-ND	Low Voltage Bidirectional Transceiver	20-SOIC	294.00/2,000		
74LCX257MTCXCT-ND	Low Voltage Quad 2-Input Multiplexer	16-TSSOP	.49	.40	.27
74LCX257MTCXTR-ND	Low Voltage Quad 2-Input Multiplexer	16-TSSOP	318.75/2,500		
74LCX373MTC-ND	Low Voltage Octal Transparent Latch	20-TSSOP	.43	.34	.26
74LCX373MTCXCT-ND	Low Voltage Octal Transparent Latch	20-TSSOP	.43	.34	.26
74LCX373MTCXTR-ND	Low Voltage Octal Transparent Latch	20-TSSOP	286.88/2,500		
74LCX540BQXCT-ND	Low Voltage Octal Buffer/Line Driver	20-QFN	.76	.57	.43
74LCX540BQXTR-ND	Low Voltage Octal Buffer/Line Driver	20-QFN	741.00/3,000		
74LCX541MTC-ND	Low Voltage Octal Buffer/Line Driver	20-TSSOP	.50	.38	.29
74LCX541MTCXCT-ND	Low Voltage Octal Buffer/Line Driver	20-TSSOP	.50	.38	.29
74LCX541MTCXTR-ND	Low Voltage Octal Buffer/Line Driver	20-TSSOP	406.25/2,500		
74LCX541WM-ND	Low Voltage Octal Buffer/Line Driver	20-SOIC	.48	.36	.27
74LCX573MTC-ND	Octal D-Type Latch	20-TSSOP	.55	.44	.33
74LCX574MTCXCT-ND	Low Voltage Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
74LCX574MTCXTR-ND	Low Voltage Octal D-Type Flip-Flop	20-TSSOP	390.00/2,500		
74LCX16244GXCT-ND	Low Voltage 16-Bit Buffer/Line Driver	54-FBGA	1.75	1.40	1.05
74LCX16244GXTR-ND	Low Voltage 16-Bit Buffer/Line Driver	54-FBGA	2240.00/2,500		
74LCX16244MEA-ND	Low Voltage 16-Bit Buffer/Line Driver	48-SSOP	1.08	.90	.72
74LCX16244MTD-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	.90	.68	.51
74LCX16244MTDXCT-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	.82	.62	.47
74LCX16244MTDXTR-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	273.00/1,000		
74LCX16245MEA-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-SSOP	1.08	.90	.72
74LCX16245MTD-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	.90	.68	.51
74LCX16245MTDXCT-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	.90	.68	.51
74LCX16245MTDXTR-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	299.00/1,000		
74LCX16373MEA-ND	Low Voltage 16-Bit Transparent Latch	48-SSOP	1.05	.88	.70
74LCX16373MTD-ND	Low Voltage 16-Bit Transparent Latch	48-TSSOP	.90	.68	.51
74LCX16373MTDXCT-ND	Low Voltage 16-Bit Transparent Latch	48-TSSOP	.90	.68	.51
74LCX16373MTDXTR-ND	Low Voltage 16-Bit Transparent Latch	48-TSSOP	299.00/1,000		
74LCX16374MTD-ND	Low Voltage 16-Bit D-Type Flip-Flop	48-TSSOP	.90	.68	.51
74LCX16374MTDXCT-ND	Low Voltage 16-Bit D-Type Flip-Flop	48-TSSOP	.84	.63	.48
74LCX16374MTDXTR-ND	Low Voltage 16-Bit D-Type Flip-Flop	48-TSSOP	279.00/1,000		
74LCX16543MTDXCT-ND	Low Voltage 16-Bit Registered Transceiver	56-TSSOP	1.35	1.08	.81
74LCX16543MTDXTR-ND	Low Voltage 16-Bit Registered Transceiver	56-TSSOP	702.00/1,000		
74LCX16646MTDXCT-ND	Low Voltage 16-Bit Registered Transceiver	56-TSSOP	1.35	1.08	.81
74LCX16646MTDXTR-ND	Low Voltage 16-Bit Registered Transceiver	56-TSSOP	702.00/1,000		
74LCX32245GXCT-ND	Low Voltage 32-Bit Bidirectional Transceiver	96-FBGA	2.93	2.34	1.82
74LCX32245GXTR-ND	Low Voltage 32-Bit Bidirectional Transceiver	96-FBGA	4095.00/2,500		
74LCXR2245WMXCT-ND	Low Voltage Bidirectional Transceiver 5V In/Out	20-SOIC	.55	.44	.33
74LCXR2245WMXTR-ND	Low Voltage Bidirectional Transceiver 5V In/Out	20-SOIC	146.00/1,000		
74LCXR162245MEA-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	1.05	.88	.70
74LCXR162245MTXCT-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	.84	.63	.48
74LCXR162245MTXTR-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	279.30/1,000		

74LVQ SERIES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LVQ14SC-ND	Low Voltage Hex Schmitt Trigger	14-SOIC	.88	.66	.50

74LVT SERIES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LVT244MTCXCT-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-TSSOP	.59	.47	.36
74LVT244MTCXTR-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-TSSOP	394.88/2,500		
74LVT244WMXCT-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-SOIC	.50	.38	.29
74LVT244WMXTR-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-SOIC	166.25/1,000		
74LVT245MTC-ND	Tri-St. In/Out Low Volt. Octal Bidirectional Transceiver	20-TSSOP	.50	.38	.29
74LVT245MTCXCT-ND	Tri-St. In/Out Low Volt. Octal Bidirectional Transceiver	20-TSSOP	.50	.38	.29
74LVT245MTCXTR-ND	Tri-St. In/Out Low Volt. Octal Bidirectional Transceiver	20-TSSOP	407.50/2,500		
74LVT574MTCXCT-ND	Tri-State Low Voltage Octal D-Type Flip-Flop	20-TSSOP	.56	.42	.32
74LVT574MTCXTR-ND	Tri-State Low Voltage Octal D-Type Flip-Flop	20-TSSOP	455.00/2,500		
74LVT16244MTDXCT-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	.75	.63	.50
74LVT16244MTDXTR-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	332.50/1,000		
74LVT16245MTD-ND	Tri-State Low Voltage 16-Bit Transceiver	48-TSSOP	.75	.63	.50
74LVT16245MTDXCT-ND	Tri-State Low Voltage 16-Bit Transceiver	48-SSOP	.75	.63	.50
74LVT16245MTDXTR-ND	Tri-State Low Voltage 16-Bit Transceiver	48-SSOP	332.50/1,000		

74LVTH SERIES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LVTH125MTCXCT-ND	Tri-State Low Voltage Quad Buffer	14-TSSOP	.41	.33	.25
74LVTH125MTCXTR-ND	Tri-State Low Voltage Quad Buffer	14-TSSOP	276.75/2,500		
74LVTH125MXCT-ND	Tri-State Low Voltage Quad Buffer	14-SOIC	.43	.34	.26
74LVTH125MXTR-ND	Tri-State Low Voltage Quad Buffer	14-SOIC	286.88/2,500		
74LVTH244MTC-ND	Tri-State Low Voltage Octal Buffer/Line Driver	20-TSSOP	.48	.36	.27
74LVTH16244MTDXCT-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	.75	.63	.50
74LVTH16244MTDXTR-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	332.50/1,000		
74LVTH162244MTXCT-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	.96	.72	.54
74LVTH162244MTXTR-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	319.20/1,000		
74LVTH162245MTXCT-ND	Tri-State Low Voltage 16-Bit Transceiver	48-TSSOP	.75	.63	.50
74LVTH162245MTXTR-ND	Tri-State Low Voltage 16-Bit Transceiver	48-TSSOP	332.50/1,000		
74LVTH16373MTDXCT-ND	Tri-State Low Voltage 16-Bit Transparent Latch	48-TSSOP	.75	.63	.50
74LVTH16373MTDXTR-ND	Tri-State Low Voltage 16-Bit Transparent Latch	48-TSSOP	332.50/1,000		
74LVTH16244MTD-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	.75	.63	.50
74LVTH16245MEA-ND	Tri-State Low Voltage 16-Bit Transceiver	48-SSOP	1.02	.85	.68
74LVTH16245MTD-ND	Tri-State Low Voltage 16-Bit Transceiver	48-TSSOP	.75	.63	.50
74LVTH32245GXCT-ND	Tri-State Low Voltage 32-Bit Transceiver	96-FBGA	3.38	2.70	2.10
74LVTH32245GXTR-ND	Tri-State Low Voltage 32-Bit Transceiver	96-FBGA	4725.00/2,500		

74LVX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74LVX04M-ND	Low Voltage Hex Inverter*	14-SOIC	.39	.32	.22
74LVX14M-ND	Low Voltage Hex Inverter*	14-SOIC	.46	.37	.26
74LVX14MTC-ND	Low Voltage Hex Inverter*	14-TSSOP	.46	.37	.26
74LVX14MTCXCT-ND	Low Voltage Hex Inverter*	14-TSSOP	.46	.37	.26
74LVX14MTCXTR-ND	Low Voltage Hex Inverter*	14-TSSOP	297.50/2,500		
74LVX74M-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	.49	.40	.27
74LVX74MTCXCT-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop*	14-TSSOP	.49	.40	.27
74LVX74MTCXTR-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop*	14-TSSOP	318.75/2,500		
74LVX125M-ND	Tri-State Low Voltage Quad Buffer*	14-SOIC	.46	.37	.26
74LVX125MTCXCT-ND	Tri-State Low Voltage Quad Buffer*	14-TSSOP	.46	.37	.26

RoHS Compliant

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74LVX SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVX125MTCXTR-ND	Tri-State Low Voltage Quad Buffer*	14-TSSOP	297.50/2,500		
74LVX125SJXCT-ND	Tri-State Low Voltage Quad Buffer*	14-SOP	.40	.32	.24
74LVX125SJXTR-ND	Tri-State Low Voltage Quad Buffer*	14-SOP	224.00/2,000		
74LVX244M-ND	Tri-State Low Voltage Octal Buffer/Line Driver*	20-SOIC	.55	.44	.33
74LVX244MTC-ND	Tri-State Low Voltage Octal Buffer/Line Driver*	20-TSSOP	.55	.44	.33
74LVX244MTCXCT-ND	Tri-State Low Voltage Octal Buffer/Line Driver*	20-TSSOP	.55	.44	.33
74LVX244MTCXTR-ND	Tri-State Low Voltage Octal Buffer/Line Driver*	20-TSSOP	371.25/2,500		
74LVX245M-ND	Low Voltage Octal Bidirectional Transceiver	20-SOIC	.55	.44	.33
74LVX245MTCXCT-ND	Low Voltage Octal Bidirectional Transceiver*	20-TSSOP	.55	.44	.33
74LVX245MTCXTR-ND	Low Voltage Octal Bidirectional Transceiver*	20-TSSOP	371.25/2,500		
74LVX374MTCXCT-ND	Tri-State Low Voltage Octal D-Type Flip-Flop*	20-TSSOP	.55	.44	.33
74LVX374MTCXTR-ND	Tri-State Low Voltage Octal D-Type Flip-Flop*	20-TSSOP	715.00/5,000		
74LVX541MTC-ND	Tri-State Low Voltage Octal Buffer/Line Driver*	20-TSSOP	.48	.36	.27
74LVX3245MTC-ND	Tri-State 8-Bit Dual Supply Translating Transceiver*	24-TSSOP	1.14	.95	.76
74LVX3245MTCXCT-ND	Tri-State 8-Bit Dual Supply Translating Transceiver*	24-TSSOP	.96	.80	.64
74LVX3245MTCXTR-ND	Tri-State 8-Bit Dual Supply Translating Transceiver*	24-TSSOP	1040.00/2,500		
74LVX3245QSCXCT-ND	Tri-State 8-Bit Dual Supply Translating Transceiver*	24-QSOP	1.14	.95	.76
74LVX3245QSCXTR-ND	Tri-State 8-Bit Dual Supply Translating Transceiver*	24-QSOP	1235.00/2,500		
74LVX3245WM-ND	Tri-State 8-Bit Dual Supply Translating Transceiver*	24-SOIC	1.14	.95	.76
74LVX4245MTC-ND	Tri-State 8-Bit Dual Supply Translating Transceiver*	24-TSSOP	1.14	.95	.76
74LVX4245MTCXCT-ND	Tri-State 8-Bit Dual Supply Translating Transceiver*	24-TSSOP	1.14	.95	.76
74LVX4245MTCXTR-ND	Tri-State 8-Bit Dual Supply Translating Transceiver*	24-TSSOP	1235.00/2,500		
74LVX4245WM-ND	Tri-State 8-Bit Dual Supply Translating Transceiver*	24-SOIC	1.14	.95	.76
74LVX4245WMXCT-ND	Tri-State 8-Bit Dual Supply Translating Transceiver*	24-SOIC	1.14	.95	.76
74LVX4245WMXTR-ND	Tri-State 8-Bit Dual Supply Translating Transceiver*	24-SOIC	505.00/1,000		
74LVX161284MEA-ND	Low Voltage IEEE 161284 Translating Transceiver*	48-SSOP	1.35	1.13	.90
74LVXC3245MTC-ND	Tri-State 8-Bit Dual Supply Configurable Voltage Interface Transceiver*	24-TSSOP	.94	.71	.53
74LVXC3245MTCXCT-ND	Tri-State 8-Bit Dual Supply Configurable Voltage Interface Transceiver*	24-TSSOP	.94	.71	.53
74LVXC3245MTCXTR-ND	Tri-State 8-Bit Dual Supply Configurable Voltage Interface Transceiver*	24-TSSOP	765.00/2,500		
74LVXC3245QSC-ND	Tri-State 8-Bit Dual Supply Configurable Voltage Interface Transceiver*	24-QSOP	.94	.71	.53
74LVXC4245MTCXCT-ND	Tri-State 8-Bit Dual Supply Configurable Voltage Interface Transceiver*	24-TSSOP	.94	.71	.53
74LVXC4245MTCXTR-ND	Tri-State 8-Bit Dual Supply Configurable Voltage Interface Transceiver*	24-TSSOP	765.00/2,500		

74S00 SERIES SCHOTTKY TTL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74S51N-ND	Dual 2-Input AND-OR-INV Gate*	14-Dip	.82	.62	.46
DM74S64N-ND	AND-OR-INV Gate	14-Dip	1.17	.96	.81
DM74S941N-ND	Tri-State Octal Buffer	20-Dip	3.64	2.94	2.38

74VCX SERIES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74VCX16244MTD-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.17	.98	.78
74VCX16244MTDXCT-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.17	.98	.78
74VCX16244MTDXTR-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	518.70/1,000		
74VCX16245MTDXCT-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	1.17	.98	.78
74VCX16245MTDXTR-ND	Low Voltage 16-Bit Bidirectional Transceiver	48-TSSOP	519.00/1,000		
74VCX162244MTD-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.20	1.00	.80
74VCX162244MTDXCT-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.20	1.00	.80
74VCX162244MTDXTR-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	532.00/1,000		
74VCX163245MTDXCT-ND	Tri-State Low Voltage 16-Bit Dual Supply Translating Transceiver	48-TSSOP	2.40	1.92	1.44
74VCX163245MTDXTR-ND	Tri-State Low Voltage 16-Bit Dual Supply Translating Transceiver	48-TSSOP	1248.00/1,000		

74VHC SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74VHC00M-ND	Quad 2-Input NAND Gate	14-SOIC	.40	.32	.22
74VHC00MTC-ND	Quad 2-Input NAND Gate*	14-TSSOP	.36	.29	.20
74VHC00MTCXCT-ND	Quad 2-Input NAND Gate*	14-TSSOP	.36	.29	.20
74VHC00MTCXTR-ND	Quad 2-Input NAND Gate*	14-TSSOP	233.75/2,500		
74VHC04M-ND	Hex Inverter	14-SOIC	.40	.32	.22
74VHC04MTC-ND	Hex Inverter*	14-TSSOP	.36	.29	.20
74VHC04MTCXCT-ND	Hex Inverter*	14-TSSOP	.36	.29	.20
74VHC04MTCXTR-ND	Hex Inverter*	14-TSSOP	233.75/2,500		
74VHC08M-ND	Quad 2-Input AND Gate	14-SOIC	.40	.32	.22
74VHC08MTC-ND	Quad 2-Input AND Gate*	14-TSSOP	.36	.29	.20
74VHC08MTCXCT-ND	Quad 2-Input AND Gate*	14-TSSOP	.36	.29	.20
74VHC08MTCXTR-ND	Quad 2-Input AND Gate*	14-TSSOP	233.75/2,500		
74VHC14M-ND	Hex Schmitt Inverter	14-SOIC	.42	.33	.23
74VHC14MTC-ND	Hex Schmitt Inverter*	14-TSSOP	.36	.29	.20
74VHC14MTCXCT-ND	Hex Schmitt Inverter*	14-TSSOP	.36	.29	.20
74VHC14MTCXTR-ND	Hex Schmitt Inverter*	14-TSSOP	233.75/2,500		
74VHC14MXCT-ND	Hex Schmitt Inverter*	14-SOIC	.42	.33	.23
74VHC14MXTR-ND	Hex Schmitt Inverter*	14-SOIC	235.00/2,500		
74VHC32M-ND	Quad 2-Input OR Gate	14-SOIC	.40	.32	.22
74VHC32MTCXCT-ND	Quad 2-Input OR Gate*	14-TSSOP	.36	.29	.20
74VHC32MTCXTR-ND	Quad 2-Input OR Gate*	14-TSSOP	233.75/2,500		
74VHC74M-ND	Dual D-Type Flip-Flop with Preset and Clear	14-SOIC	.45	.37	.25
74VHC74MTC-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	.36	.29	.20
74VHC74MTCXCT-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	.36	.29	.20
74VHC74MTCXTR-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	233.75/2,500		
74VHC86M-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.42	.33	.23
74VHC86MTCXCT-ND	Quad 2-Input Exclusive OR Gate*	14-TSSOP	.36	.29	.20
74VHC86MTCXTR-ND	Quad 2-Input Exclusive OR Gate*	14-TSSOP	233.75/2,500		
74VHC123AM-ND	Dual Retriggerable Monostable Multivibrator	16-SOIC	.44	.36	.25
74VHC123AMTC-ND	Dual Retriggerable Monostable Multivibrator*	16-TSSOP	.47	.38	.26
74VHC123AMTCXCT-ND	Dual Retriggerable Monostable Multivibrator*	16-TSSOP	.44	.36	.25
74VHC123AMTCXTR-ND	Dual Retriggerable Monostable Multivibrator*	16-TSSOP	289.00/2,500		
74VHC125M-ND	Tri-State Quad Buffer*	14-SOIC	.46	.37	.26
74VHC125MTC-ND	Tri-State Quad Buffer*	14-TSSOP	.46	.37	.26
74VHC125MTCXCT-ND	Tri-State Quad Buffer*	14-TSSOP	.44	.36	.25
74VHC125MTCXTR-ND	Tri-State Quad Buffer*	14-TSSOP	289.00/2,500		
74VHC138M-ND	3-to-8 Decoder/Demultiplexer*	16-SOIC	.50	.40	.30
74VHC138MTC-ND	3-to-8 Decoder/Demultiplexer*	16-TSSOP	.50	.40	.30
74VHC139M-ND	Dual 2-to-4 Decoder/Demultiplexer	16-SOIC	.48	.36	.27
74VHC139MTC-ND	Dual 2-to-4 Decoder/Demultiplexer*	16-TSSOP	.48	.36	.27
74VHC157MTC-ND	Quad 2-Input Multiplexer	16-TSSOP	.55	.44	.33
74VHC244M-ND	Tri-State Octal Non-Inverting Buffer/Line Driver	20-SOIC	.43	.34	.26
74VHC244MTC-ND	Tri-State Octal Non-Inverting Buffer/Line Driver*	20-TSSOP	.49	.40	.27
74VHC244MTCXCT-ND	Tri-State Octal Non-Inverting Buffer/Line Driver*	20-TSSOP	.49	.40	.27
74VHC244MTCXTR-ND	Tri-State Octal Non-Inverting Buffer/Line Driver*	20-TSSOP	318.75/2,500		
74VHC245M-ND	Tri-State Octal Bidirectional Transceiver*	20-SOIC	.45	.36	.27
74VHC245MTC-ND	Tri-State Octal Bidirectional Transceiver*	20-TSSOP	.43	.34	.26
74VHC245MTCXCT-ND	Tri-State Octal Bidirectional Transceiver*	20-TSSOP	.47	.38	.26
74VHC245MTCXTR-ND	Tri-State Octal Bidirectional Transceiver*	20-TSSOP	306.00/2,500		
74VHC273MTCXCT-ND	Octal D-Type Flip-Flop*	20-TSSOP	.47	.38	.26
74VHC273MTCXTR-ND	Octal D-Type Flip-Flop*	20-TSSOP	306.00/2,500		
74VHC373M-ND	Tri-State Octal D-Type Latch	20-SOIC	.43	.35	.26
74VHC374MTC-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.43	.34	.26
74VHC393M-ND	Dual 4-Bit Binary Counter	14-SOIC	.76	.57	.43
74VHC393MTC-ND	Dual 4-Bit Binary Counter	14-SSOP	.76	.57	.43
74VHC541M-ND	Tri-State Octal Buffer/Line Driver*	20-SOIC	.50	.40	.30
74VHC541MTC-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.40	.32	.24
74VHC573M-ND	Tri-State Octal D-Type Latch	20-SOIC	.48	.38	.29
74VHC573MTC-ND	Tri-State Octal D-Type Latch*	20-TSSOP	.40	.32	.24
74VHC573MTCXCT-ND	Tri-State Octal D-Type Latch*	20-TSSOP	.40	.32	.24
74VHC573MTCXTR-ND	Tri-State Octal D-Type Latch*	20-TSSOP	270.00/2,500		
74VHC574MTC-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	.40	.32	.24
74VHC574MTCXCT-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	.40	.32	.24
74VHC574MTCXTR-ND	Tri-State Octal D-Type Flip-Flop*	20-TSSOP	270.00/2,500		
74VHC595M-ND	8-Bit Shift Register with Output Latches	16-SOIC	.45	.36	.27
74VHC595MTCXCT-ND	8-Bit Shift Register with Output Latches*	16-TSSOP	.45	.36	.27
74VHC595MTCXTR-ND	8-Bit Shift Register with Output Latches*	16-TSSOP	303.75/2,500		
74VHC595MXCT-ND	8-Bit Shift Register with Output Latches*	16-SOIC	.45	.36	.27
74VHC595MXTR-ND	8-Bit Shift Register with Output Latches*	16-SOIC	305.00/2,500		
74VHC4040M-ND	12-Stage Binary Counter*	16-SOIC	.64	.48	.36
74VHC4040MTC-ND	12-Stage Binary Counter*	16-TSSOP	.64	.48	.36
74VHC4316M-ND	Quad Analog Switch with Level Translator*	16-SOIC	.52	.39	.30
74VHC4316MXCT-ND	Quad Analog Switch with Level Translator*	16-SOIC	.52	.39	.30
74VHC4316MXTR-ND	Quad Analog Switch with Level Translator*	16-SOIC	422.50/2,500		

74VHCT SERIES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74VHCT08AM-ND	Quad 2-Input AND Gate	14-SOIC	.42	.33	.23
74VHCT08AMTCXCT-ND	Quad 2-Input AND Gate	14-TSSOP	.36	.29	.20
74VHCT08AMTCXTR-ND	Quad 2-Input AND Gate	14-TSSOP	233.75/2,500		
74VHCT14AMXCT-ND	Hex Schmitt Inverter	14-SOIC	.45	.37	.25
74VHCT14AMXTR-ND	Hex Schmitt Inverter	14-SOIC	292.50/2,500		
74VHCT244AMTC-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.49	.40	.27
74VHCT244AMTCXCT-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.49	.40	.27
74VHCT244AMTCXTR-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	318.75/2,500		
74VHCT245AMTCXCT-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.49	.40	.27
74VHCT245AMTCXTR-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	318.75/2,500		

4000 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD4001BCM-ND	Quad 2-Input NOR Gate	14-SOIC	.38	.31	.21
CD4001BCMXCT-ND	Quad 2-Input NOR Gate*	14-SOIC	.38	.31	.21
CD4001BCMXTR-ND	Quad 2-Input NOR Gate*	14-SOIC	247.50/2,500		
CD4001BCN-ND	Quad 2-Input NOR Gate	14-Dip	.45	.36	.27
CD4011BCM-ND	Quad 2-Input NAND Gate	14-SOIC	.38	.31	.21
CD4011BCN-ND	Quad 2-Input NAND Gate	14-Dip	.50	.40	.30
CD4013BCM-ND	Dual D-Type Flip-Flop	14-SOIC	.42	.35	.24
CD4013BCMXCT-ND	Dual D-Type Flip-Flop*	14-SOIC	.42	.35	.24
CD4013BCMXTR-ND	Dual D-Type Flip-Flop*	14-SOIC	277.50/2,500		
CD4013BCN-ND	Dual D-Type Flip-Flop	14-Dip	.50	.40	.30
CD4016BCM-ND	Quad Bilateral Switch	14-SOIC	.36	.30	.21
CD4016BCN-ND	Quad Bilateral Switch	14-Dip	.50	.40	.30
CD4021BCM-ND	8-Stage Static Shift Register*	16-SOIC	.43	.35	.26
CD4021BCN-ND	8-Stage Static Shift Register*	16-Dip	.58	.44	.33
CD4047BCM-ND	Low Power Monostable/Astable Multivibrator*	14-SOIC	.51	.41	.29
CD4047BCN-ND	Low Power Monostable/Astable Multivibrator	14-Dip	.55	.44	.33
CD4049UBCM-ND	Hex Inverting Buffer	16-SOIC	.51	.41	.29
CD4049UBCN-ND	Hex Inverting Buffer*	16-PDip	.48	.36	.27
CD4050BCM-ND	Hex Non-Inverting Buffer*	16-SOIC	.40	.32	.24
CD4050BCN-ND	Hex Non-Inverting Buffer	16-Dip	.48	.36	.27
CD4051BCM-ND	8-Channel Analog Mux/Demux	16-SOIC	.48	.38	.29
CD4051BCMXCT-ND	8-Channel Analog Mux/Demux*	16-SOIC	.48	.38	.29
CD4051BCMXTR-ND	8-Channel Analog Mux/Demux*	16-SOIC	320.00/2,500		
CD4051BCN-ND	8-Channel Analog Mux/Demux	16-Dip	.54	.41	.31
CD4052BCM-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.48	.38	.29
CD4052BCMXCT-ND	Dual 4-Channel Analog Mux/Demux*	16-SOIC	.48	.38	.29
CD4052BCMXTR-ND	Dual 4-Channel Analog Mux/Demux*	16-SOIC	320.00/2,500		
CD4052BCN-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.54	.41	.31
CD4053BCM-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.48	.38	.29
CD4053BCMXCT-ND	Triple 2-Channel Analog Mux/Demux*	16-SOIC	.48	.38	.29
CD4053BCMXTR-ND	Triple 2-Channel Analog Mux/Demux*	16-SOIC	320.00/2,500		
CD4053BCN-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.54	.41	.31
CD4060BCM-ND	14-Bit Binary Counter/Oscillator	16-SOIC	.48	.38	.29
CD4060BCN-ND	14-Bit Binary Counter/Oscillator	16-Dip	.54	.41	.31
CD4066BCM-ND	Quad Bilateral Switch	14-SOIC	.39	.32	.22
CD4066BCMXCT-ND	Quad Bilateral Switch*	14-SOIC	.39	.32	.22
CD4066BCMXTR-ND	Quad Bilateral Switch*	14-SOIC	255.00/2,500		
CD4066BCN-ND	Quad Bilateral Switch	14-Dip	.45	.36	.27
CD4069UBCM-ND	Inverter Circuit	14-SOIC	.38	.31	.21
CD4069UBCMXCT-ND	Inverter Circuit*	14-SOIC	.38	.31	.21

***RoHS Compliant**

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4000 SERIES CMOS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CD4069UBCMXTR-ND	Inverter Circuit*	14-SOIC	247.50/2,500		
CD4069UBCN-ND	Inverter Circuit*	14-Dip	.45	.36	.27
CD4093BCM-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.39	.32	.22
CD4093BCMXCT-ND	Quad 2-Input NAND Schmitt Trigger*	14-SOIC	.39	.32	.22
CD4093BCMXTR-ND	Quad 2-Input NAND Schmitt Trigger*	14-SOIC	255.00/2,500		
CD4093BCN-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.47	.38	.29
CD4538BCM-ND	Dual Precision Monostable Multivibrator*	16-SOIC	.58	.46	.35
CD4538BCN-ND	Dual Precision Monostable Multivibrator	16-Dip	.60	.45	.34
CD4541BCM-ND	Programmable Timer*	14-SOIC	.50	.40	.30
CD4541BCN-ND	Programmable Timer	14-Dip	.58	.47	.35
CD4724BCN-ND	8-Bit Addressable Latch	16-Dip	.60	.45	.34
CD40106BCM-ND	Hex Schmitt Trigger*	14-SOIC	.40	.33	.23
CD40106BCMXCT-ND	Hex Schmitt Trigger*	14-SOIC	.40	.33	.23
CD40106BCMXTR-ND	Hex Schmitt Trigger*	14-SOIC	263.50/2,500		
CD40106BCN-ND	Hex Schmitt Trigger	14-Dip	.50	.40	.30

FMS SERIES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FMS3818KRC-ND	3x8-Bit, 180Ms/s, Triple Video DAC	48-LQFP	11.25	10.13	8.98
FMS6141CSXCT-ND	Single Channel, 4th Order Standard Definition Video Filter Driver	8-SOIC	.54	.41	.31
FMS6141CSXTR-ND	Single Channel, 4th Order Standard Definition Video Filter Driver	8-SOIC	438.75/2,500		
FMS6141S5XCT-ND	Single Channel, 4th Order Standard Definition Video Filter Driver	SC70-5	.54	.41	.31
FMS6141S5XTR-ND	Single Channel, 4th Order Standard Definition Video Filter Driver	SC70-5	526.50/3,000		
FMS6143CSXCT-ND	3-Channel, 4th Order Standard Definition Video Filter Driver	8-SOIC	.88	.66	.50
FMS6143CSXTR-ND	3-Channel, 4th Order Standard Definition Video Filter Driver	8-SOIC	715.00/2,500		
FMS6145MTC14XCT-ND	5-Channel, 4th Order Standard Definition Video Filter Driver	14-TSSOP	1.35	1.13	.90
FMS6145MTC14XTR-ND	5-Channel, 4th Order Standard Definition Video Filter Driver	14-TSSOP	1462.50/2,500		
FMS6146MTC14XCT-ND	6-Channel, 4th Order Standard Definition Video Filter Driver	14-TSSOP	1.35	1.13	.90
FMS6146MTC14XTR-ND	6-Channel, 4th Order Standard Definition Video Filter Driver	14-TSSOP	1462.50/2,500		
FMS6203MTC1400-ND	3-Channel, Video Filter Drivers for SD/PS/HD	14-TSSOP	1.50	1.20	.90
FMS6203MTC1400XCT-ND	3-Channel, Video Filter Driver	14-TSSOP	1.50	1.20	.90
FMS6203MTC1400XTR-ND	3-Channel, Video Filter Driver	14-TSSOP	1920.00/2,500		
FMS6203MTC1406XCT-ND	3-Channel, Video Filter Driver	14-TSSOP	1.50	1.20	.90
FMS6203MTC1406XTR-ND	3-Channel, Video Filter Driver	14-TSSOP	1920.00/2,500		
FMS6243MTC14XCT-ND	3-Channel, SD Video Filter Driver	14-TSSOP	1.29	1.08	.86
FMS6243MTC14XTR-ND	3-Channel, SD Video Filter Driver	14-TSSOP	1397.50/2,500		
FMS6246MTC20XCT-ND	6-Channel, 6th Order SD/PS Video Filter Driver	20-TSSOP	1.80	1.44	1.08
FMS6246MTC20XTR-ND	6-Channel, 6th Order SD/PS Video Filter Driver	20-TSSOP	2304.00/2,500		
FMS6346MTC20XCT-ND	6-Channel, 6th Order SD/HD Video Filter Driver	20-TSSOP	1.80	1.44	1.08
FMS6346MTC20XTR-ND	6-Channel, 6th Order SD/HD Video Filter Driver	20-TSSOP	2304.00/2,500		
FMS6363CSXCT-ND	3-Channel, 6th Order High Definition Video Filter Driver	8-SOIC	1.14	.95	.76
FMS6363CSXTR-ND	3-Channel, 6th Order High Definition Video Filter Driver	8-SOIC	1235.00/2,500		
FMS6366MSA28XCT-ND	Selectable YPbPR HD/SD 4:2:2 Video Filter Driver with Y, C and Composite Outputs	28-SSOP	3.60	2.88	2.24
FMS6366MSA28XTR-ND	Selectable YPbPr HD/SD 4:2:2 Video Filter Driver with Y, C and Composite Outputs	28-SSOP	4032.00/2,500		
FMS6400CS1XCT-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	1.45	1.16	.87
FMS6400CS1XTR-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	1856.00/2,500		
FMS6400CSXCT-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	1.45	1.16	.87
FMS6400CSXTR-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	1885.00/2,500		
FMS6403MTC20XCT-ND	Triple Video Driver with Selectable HD/PS/SD/Bypass Filters for RGB and YPbPr Signals	20-TSSOP	2.70	2.16	1.68
FMS6403MTC20XTR-ND	Triple Video Driver with Selectable HD/PS/SD/Bypass Filters for RGB and YPbPr Signals	20-TSSOP	3780.00/2,500		
FMS6406CSXCT-ND	Precision S-Video Filter with Summed Composite Output, Sound Trap, and Group Delay Compensation	8-SOIC	2.66	2.13	1.66
FMS6406CSXTR-ND	Precision S-Video Filter with Summed Composite Output, Sound Trap, and Group Delay Compensation	8-SOIC	3717.00/2,500		
FMS6407MTC20XCT-ND	Triple Video Driver with Selectable HD/Progressive/ SD/Bypass Filter	20-TSSOP	2.66	2.13	1.66
FMS6407MTC20XTR-ND	Triple Video Driver with Selectable HD/Progressive/ SD/Bypass Filter	20-TSSOP	3717.00/2,500		
FMS6408MTC141XCT-ND	Triple Video Filter Driver for RGB/YUV Signals	14-TSSOP	2.08	1.66	1.25
FMS6408MTC141XTR-ND	Triple Video Filter Driver for RGB/YUV Signals	14-TSSOP	2656.00/2,500		
FMS6408MTC143XCT-ND	Triple Video Filter Driver for RGB/YUV Signals	14-TSSOP	2.08	1.66	1.25
FMS6408MTC143XTR-ND	Triple Video Filter Driver for RGB/YUV Signals	14-TSSOP	2656.00/2,500		
FMS6414CSXCT-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	1.93	1.54	1.16
FMS6414CSXTR-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	2464.00/2,500		
FMS6418AM16XCT-ND	Triple Video Driver with Selectable HD/SD Video Filters for RGB or YUV Signals	16-SOIC	1.70	1.36	1.02
FMS6418AM16XTR-ND	Triple Video Driver with Selectable HD/SD Video Filters for RGB or YUV Signals	16-SOIC	884.00/1,000		
FMS6418AMTC14XCT-ND	Triple Video Driver with Selectable HD/SD Video Filters for RGB or YUV Signals	14-TSSOP	2.30	1.84	1.38
FMS6418AMTC14XTR-ND	Triple Video Driver with Selectable HD/SD Video Filters for RGB or YUV Signals	14-TSSOP	2944.00/2,500		
FMS6419MSA28XCT-ND	Selectable RGB (YUV) HD/SD Video Filter Driver with Y, C, Composite Outputs	28-SSOP	2.97	2.38	1.85
FMS6419MSA28XTR-ND	Selectable RGB (YUV) HD/SD Video Filter Driver with Y, C, Composite Outputs	28-SSOP	3366.00/2,000		
FMS6501MSA28XCT-ND	12-Input, 9-Output Video Switch Matrix	28-SSOP	4.16	3.33	2.59
FMS6501MSA28XTR-ND	12-Input, 9-Output Video Switch Matrix	28-SSOP	4717.50/2,000		
FMS6502MTC24-ND	8-Input, 6-Output Video Switch Matrix	24-TSSOP	2.25	1.80	1.40
FMS6502MTC24XCT-ND	8-Input, 6-Output Video Switch Matrix	24-TSSOP	2.25	1.80	1.40
FMS6502MTC24XTR-ND	8-Input, 6-Output Video Switch Matrix	24-TSSOP	3150.00/2,500		
FMS6690MTC20XCT-ND	6-Channel, 6th Order SD/PS/HD Video Filter Driver	20-TSSOP	1.90	1.52	1.14
FMS6690MTC20XTR-ND	6-Channel, 6th Order SD/PS/HD Video Filter Driver	20-TSSOP	2432.00/2,500		
FMS7401LEN14-ND	Digital Power Controller	14-Dip	4.16	3.33	2.59
FMS7401LEN-ND	Digital Power Controller	8-Dip	4.88	3.90	2.93
FMS7401LVN14-ND	Digital Power Controller	14-Dip	4.16	3.33	2.59
FMS7401LVN-ND	Digital Power Controller	8-Dip	3.53	2.83	2.20

LINEAR ICs — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FAN50FC3MPXCT-ND	8-Bit Programmable, 2-to-3 Phase FastvCore™ Buck Controller	32-MLP	2.36	1.89	1.47
FAN50FC3MPXTR-ND	8-Bit Programmable, 2-to-3 Phase FastvCore™ Buck Controller	32-MLP	3969.00/3,000		
FAN2001MPXCT-ND	Adj., 1A High-Eff. Step-Down DC/DC Converter	6-MLP	1.33	1.06	.80
FAN2001MPXTR-ND	Adj., 1A High-Eff. Step-Down DC/DC Converter	6-MLP	2035.20/3,000		
FAN2002MPXCT-ND	Adj., 1A High-Eff. Step-Down DC/DC Converter	6-MLP	1.33	1.06	.80
FAN2002MPXTR-ND	Adj., 1A High-Eff. Step-Down DC/DC Converter	6-MLP	2035.20/3,000		
FAN2103EMPXCT-ND	3A, 24V Input Integrated Sync. TinyBuck™ Reg. ***NEW!***	25-MLP	2.38	1.90	1.43
FAN2103EMPXTR-ND	3A, 24V Input Integrated Sync. TinyBuck™ Reg. ***NEW!***	25-MLP	3648.00/3,000		
FAN2103MPXCT-ND	3A, 24V Input Integrated Sync. TinyBuck™ Reg. ***NEW!***	25-MLP	2.00	1.60	1.20
FAN2103MPXTR-ND	3A, 24V Input Integrated Sync. TinyBuck™ Reg. ***NEW!***	25-MLP	3072.00/3,000		
FAN2106MPXCT-ND	6A, 24V Input Integrated Sync. TinyBuck™ Regulator	25-MLP	2.36	1.89	1.47
FAN2106MPXTR-ND	6A, 24V Input Integrated Sync. TinyBuck™ Regulator	25-MLP	3969.00/3,000		
FAN3100CMPXCT-ND	Single 2A High Speed, Low Side Gate Driver	6-MLP	1.02	.85	.68
FAN3100CMPXTR-ND	Single 2A High Speed, Low Side Gate Driver	6-MLP	1326.00/3,000		
FAN3100CSXCT-ND	Single 2A High Speed, Low Side Gate Driver	SOT-23-5	.87	.73	.58
FAN3100CSXTR-ND	Single 2A High Speed, Low Side Gate Driver	SOT-23-5	1131.00/3,000		
FAN3100TMPXCT-ND	Single 2A High Speed, Low Side Gate Driver	6-MLP	1.02	.85	.68
FAN3100TMPXTR-ND	Single 2A High Speed, Low Side Gate Driver	6-MLP	1326.00/3,000		
FAN3100TSXCT-ND	Single 2A High Speed, Low Side Gate Driver	SOT-23-5	.87	.73	.58
FAN3100TSXTR-ND	Single 2A High Speed, Low Side Gate Driver	SOT-23-5	1131.00/3,000		
FAN3223CMPXCT-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1.38	1.10	.83
FAN3223CMPXTR-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	2112.00/3,000		
FAN3223CMXCT-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1.47	1.23	.98
FAN3223CMXTR-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1568.00/2,500		
FAN3223TMPXCT-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1.38	1.10	.83
FAN3223TMPXTR-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	2112.00/3,000		
FAN3223TMXCT-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1.47	1.23	.98
FAN3223TMXTR-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1592.50/2,500		
FAN3224CMPXCT-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1.65	1.38	1.10
FAN3224CMPXTR-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	2145.00/3,000		
FAN3224CMXCT-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1.47	1.23	.98
FAN3224CMXTR-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1592.50/2,500		
FAN3224TMPXCT-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1.38	1.10	.83
FAN3224TMPXTR-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	2112.00/3,000		
FAN3225CMXCT-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1.47	1.23	.98
FAN3225CMXTR-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1592.50/2,500		
FAN3225TMPXCT-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1.38	1.10	.83
FAN3225TMPXTR-ND	Dual 4A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	2112.00/3,000		
FAN3226CMPXCT-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1.35	1.13	.90
FAN3226CMPXTR-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1755.00/3,000		
FAN3226CMXCT-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1.17	.98	.78
FAN3226CMXTR-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1267.50/2,500		
FAN3226TMXCT-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1.17	.98	.78
FAN3226TMXTR-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1267.50/2,500		
FAN3227CMPXCT-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1.35	1.13	.90
FAN3227CMXCT-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1.17	.98	.78
FAN3227CMXTR-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1267.50/2,500		
FAN3227TMXCT-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1.17	.98	.78
FAN3227TMXTR-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1267.50/2,500		
FAN3228CMPXCT-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1.35	1.13	.90
FAN3228CMPXTR-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1755.00/3,000		
FAN3228CMXCT-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1.17	.98	.78
FAN3228CMXTR-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1267.50/2,500		
FAN3229CMPXCT-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1.35	1.13	.90
FAN3229CMPXTR-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1755.00/3,000		
FAN3229CMXCT-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1.17	.98	.78
FAN3229CMXTR-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1267.50/2,500		
FAN3229TMPXCT-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1.35	1.13	.90
FAN3229TMPXTR-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-MLP	1755.00/3,000		
FAN3229TMXCT-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1.17	.98	.78
FAN3229TMXTR-ND	Dual 2A High Speed, Low Side Gate Driver ***NEW!***	8-SOIC	1267.50/2,500		
FAN3800MLP24XCT-ND	Mono/Stereo Audio Amp	24-MLP	1.65	1.32	.99
FAN3800MLP24XTR-ND	Mono/Stereo Audio Amp	24-MLP	2534.40/3,000		
FAN4010IL6X_F113CT-ND	High Side Current Sensor ***NEW!***	6-MLP	.80	.60	.45
FAN4010IL6X_F113TR-ND	High Side Current Sensor ***NEW!***	6-MLP	1275.00/5,000		
FAN5031MPXCT-ND	8-Bit Prog. 2 to 4 Phase Sync. Buck Controller	40-MLP	2.70	2.16	1.68
FAN5031MPXTR-ND	8-Bit Prog. 2 to 4 Phase Sync. Buck Controller	40-MLP	4536.00/3,000		
FAN5032MPXCT-ND	8-Bit Prog. 2 to 4 Phase Sync. Buck Controller	40-MLP	2.70	2.16	1.68
FAN5032MPXTR-ND	8-Bit Prog. 2 to 4 Phase Sync. Buck Controller	40-MLP	4536.00/3,000		
FAN5032MXCT-ND	8-Bit Prog. 2 to 4 Phase Sync. Buck Controller	40-MLP	2.70	2.16	1.68
FAN5032MXTR-ND	8-Bit Prog. 2 to 4 Phase Sync. Buck Controller	40-MLP	4536.00/3,000		
FAN5033MPXCT-ND	8-Bit Prog. 2 to 3 Phase Sync. Buck Controller	32-MLP	1.30	1.04	.78
FAN5033MPXTR-ND	8-Bit Prog. 2 to 3 Phase Sync. Buck Controller	32-MLP	1996.80/3,000		
FAN5059MXCT-ND	High Perf. Programmable Sync. DC/DC Controller for Multi-Voltage Platforms	24-SOIC	2.32	1.86	1.45
FAN5059MXTR-ND	High Perf. Programmable Sync. DC/DC Controller for Multi-Voltage Platforms	24-SOIC	1311.98/1,000		
FAN5066MXCT-ND	Ultra Low Voltage Sync. DC/DC Controller	20-SOIC	2.23	1.79	1.34
FAN5066MXTR-ND	Ultra Low Voltage Sync. DC/DC Controller	20-SOIC	1160.90/1,000		
FAN5068MPXCT-ND	DDR-1/DDR-2 Plus ACPI Regulator	24-MLP	1.55	1.24	.93
FAN5068MPXTR-ND	DDR-1/DDR-2 Plus ACPI Regulator	24-MLP	2380.80/3,000		
FAN5078D3MPXCT-ND	Complete ACPI Compliant Power Solution for DDR3 Memory System ***NEW!***	24-MLP	1.68	1.34	1.01
FAN5078D3MPXTR-ND	Complete ACPI Compliant Power Solution for DDR3 Memory System ***NEW!***	24-MLP	2572.80/3,000		
FAN5078MPXCT-ND	DDR/ACPI Regulator Combo	24-MLP	1.68	1.34	1.01
FAN5078MPXTR-ND	DDR/ACPI Regulator Combo	24-MLP	2572.80/3,000		
FAN5094MTCXCT-ND	Multi-Phase Interleaved Buck Converter	28-TSSOP	4.50	3.60	2.80
FAN5094MTCXTR-ND	Multi-Phase Interleaved Buck Converter	28-TSSOP	6300.00/2,500		
FAN5109BMXCT-ND	Dual Bootstrapped 12V MOSFET Driver	8-SOIC	.64	.48	.36
FAN5109BMXTR-ND	Dual Bootstrapped 12V MOSFET Driver	8-SOIC	520.00/2,500		
FAN5110MXCT-ND	2-Phase, Bootstrapped, 12V MOSFET Half Bridge Driver ***NEW!***	16-SOIC	1.05	.88	.70
FAN5110MXTR-ND	2-Phase, Bootstrapped, 12V MOSFET Half Bridge Driver ***NEW!***	16-SOIC	1137.50/2,500		
FAN5240MTCXCT-ND	Single Output 2-Phase Sync. Buck Controller	28-TSSOP	3.04	2.43	1.89
FAN5240MTCXTR-ND	Single Output 2-Phase Sync. Buck Controller	28-TSSOP	4252.50/2,500		
FAN5240QSCXCT-ND	Single Output 2-Phase Sync. Buck Controller	28-QSOP	3.51	2.81	2.19
FAN5307S18XCT-ND	High Efficiency Step-Down DC/DC Converter	SOT-23-5	.99	.83	.66
FAN5307S18XTR-ND	High Efficiency Step-Down DC/DC Converter	SOT-23-5	1287.00/3,000		
FAN5331SXCT-ND	High Efficiency Serial LED Driver and OLED Supply with 20V Integrated Switch	SOT-23-5	.81	.68	.54
FAN5331SXTR-ND	High Efficiency Serial LED Driver and OLED Supply with 20V Integrated Switch	SOT-23-5	1053.00/3,000		

***** ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FAN5336MPXCT-ND	1.5MHz Boost Reg. with 33V Integrated FET Switch	6-MLP	1.50	1.20	.90
FAN5336MPXTR-ND	1.5MHz Boost Reg. with 33V Integrated FET Switch	6-MLP	2304.00/3,000		
FAN5601MP13XCT-ND	1.3V, Regulated Step-Down Charge Pump DC/DC Converter	6-MLP	2.00	1.60	1.20
FAN5601MP13XTR-ND	1.3V, Regulated Step-Down Charge Pump DC/DC Converter	6-MLP	3072.00/3,000		
FAN5601MP18XCT-ND	1.8V, Regulated Step-Down Charge Pump DC/DC Converter	6-MLP	2.00	1.60	1.20
FAN5601MP18XTR-ND	1.8V, Regulated Step-Down Charge Pump DC/DC Converter	6-MLP	3072.00/3,000		
FAN5602MP45XCT-ND	4.5V, Universal Charge Pump Regulated DC/DC Converter	8-MLP	1.30	1.04	.78
FAN5602MP45XTR-ND	4.5V, Universal Charge Pump Regulated DC/DC Converter	8-MLP	1996.80/3,000		
FAN5602MP5XCT-ND	5V, Universal Charge Pump Regulated DC/DC Converter	8-MLP	1.30	1.04	.78
FAN5602MP5XTR-ND	5V, Universal Charge Pump Regulated DC/DC Converter	8-MLP	1996.80/3,000		
FAN5607HMPXCT-ND	LED Driver with Adaptive Charge Pump DC/DC Converter	16-MLP	1.25	1.00	.75
FAN5607HMPXTR-ND	LED Driver with Adaptive Charge Pump DC/DC Converter	16-MLP	1920.00/3,000		
FAN5609MPXCT-ND	LED Driver with Adaptive Charge Pump DC/DC Converter	16-MLP	2.33	1.86	1.40
FAN5609MPXTR-ND	LED Driver with Adaptive Charge Pump DC/DC Converter	16-MLP	3571.20/3,000		
FAN5610MPXCT-ND	LED Driver for 4-Parallel Connected LEDs	8-MLP	1.35	1.13	.90
FAN5610MPXTR-ND	LED Driver for 4-Parallel Connected LEDs	8-MLP	1755.00/3,000		
FAN5611MPXCT-ND	LDO LED Driver for White, Blue, or any Color LED	6-MLP	1.35	1.13	.90
FAN5611MPXTR-ND	LDO LED Driver for White, Blue, or any Color LED	6-MLP	1755.00/3,000		
FAN5611S7XCT-ND	LDO LED Driver for Parallel Connected LEDs	SC70-6	.84	.70	.56
FAN5611S7XTR-ND	LDO LED Driver for Parallel Connected LEDs	SC70-6	1092.00/3,000		
FAN5612S7XCT-ND	LDO LED Driver for Parallel Connected LEDs	SC70-6	.84	.70	.56
FAN5612S7XTR-ND	LDO LED Driver for Parallel Connected LEDs	SC70-6	1092.00/3,000		
FAN5613MPXCT-ND	LDO LED Driver for Parallel Connected LEDs	8-MLP	.84	.70	.56
FAN5613MPXTR-ND	LDO LED Driver for Parallel Connected LEDs	8-MLP	1092.00/3,000		
FAN5614S7XCT-ND	LDO LED Driver for Parallel Connected LEDs	SC70-6	.84	.70	.56
FAN5614S7XTR-ND	LDO LED Driver for Parallel Connected LEDs	SC70-6	1092.00/3,000		
FAN5617MPXCT-ND	High Efficiency, Constant Current LED Driver	16-MLP	1.17	.98	.78
FAN5617MPXTR-ND	High Efficiency, Constant Current LED Driver	16-MLP	1521.00/3,000		
FAN5631MPXCT-ND	Regulated Step Down Charge Pump DC/DC Converter	10-MLP	1.25	1.00	.75
FAN5631MPXTR-ND	Regulated Step Down Charge Pump DC/DC Converter	10-MLP	1920.00/3,000		
FAN5665UCXCT-ND	High Efficiency, Adaptive Charge Pump 5V Boost	8-WLCSP	1.28	1.02	.77
FAN5665UCXTR-ND	High Efficiency, Adaptive Charge Pump 5V Boost	8-WLCSP	1958.40/3,000		
FAN7040MXCT-ND	3W Mono BTL Amp with DC Volume Control	20-SOP	1.29	1.08	.86
FAN7040MXTR-ND	3W Mono BTL Amp with DC Volume Control	20-SOP	571.90/1,000		
FAN7311BMXCT-ND	LCD Backlight Inverter Drive	20-SOIC	1.75	1.40	1.05
FAN7311BMXTR-ND	LCD Backlight Inverter Drive	20-SOIC	910.00/1,000		
FAN7311N-ND	LCD Backlight Inverter Drive	20-Dip	2.46	1.97	1.53
FAN7313M-ND	LCD Backlight Inverter Drive	20-SOIC	1.26	1.05	.84
FAN7314M-ND	LCD Backlight Inverter Drive	20-SOIC	2.45	1.97	1.53
FAN7316MXCT-ND	LCD Backlight Inverter Drive ***NEW!***	20-SOIC	1.25	1.00	.75
FAN7316MXTR-ND	LCD Backlight Inverter Drive ***NEW!***	20-SOIC	650.00/1,000		
FAN7317M-ND	LCD Backlight Inverter Drive ***NEW!***	20-SOIC	1.63	1.30	.98
FAN7361MXCT-ND	High Side Gate Driver	8-SOIC	1.26	1.05	.84
FAN7361MXTR-ND	High Side Gate Driver	8-SOIC	1638.00/3,000		
FAN7371MXCT-ND	High Current High Side Gate Driver	8-SOP	1.08	.90	.72
FAN7371MXTR-ND	High Current High Side Gate Driver	8-SOP	1404.00/3,000		
FAN7380MXCT-ND	Half Bridge Gate Driver	8-SOIC	1.14	.95	.76
FAN7380MXTR-ND	Half Bridge Gate Driver	8-SOIC	1482.00/3,000		
FAN7382M1XCT-ND	High and Low Side Gate Driver	14-SOP	1.35	1.08	.81
FAN7382M1XTR-ND	High and Low Side Gate Driver	14-SOP	2073.60/3,000		
FAN7382MXCT-ND	High and Low Side Gate Driver	8-SOP	1.35	1.13	.90
FAN7382MXTR-ND	High and Low Side Gate Driver	8-SOP	1755.00/3,000		
FAN7383M-ND	Half Bridge Gate Driver	14-SOP	1.26	1.05	.84
FAN7383MXCT-ND	Half Bridge Gate Driver	14-SOP	1.26	1.05	.84
FAN7383MXTR-ND	Half Bridge Gate Driver	14-SOP	1638.00/3,000		
FAN7384MXCT-ND	Half Bridge Gate Driver	14-SOP	1.26	1.05	.84
FAN7384MXTR-ND	Half Bridge Gate Driver	14-SOP	1638.00/3,000		
FAN7385M-ND	Dual Channel High Side Gate Driver	14-SOP	1.26	1.05	.84
FAN7385MXCT-ND	Dual Channel High Side Gate Driver	14-SOP	1.26	1.05	.84
FAN7385MXTR-ND	Dual Channel High Side Gate Driver	14-SOP	1638.00/3,000		
FAN7532MXCT-ND	Ballast Control IC	16-SOP	1.90	1.52	1.14
FAN7532MXTR-ND	Ballast Control IC	16-SOP	2918.40/3,000		
FAN7544MXCT-ND	Simple Ballast Controller	8-SOP	1.29	1.08	.86
FAN7544MXTR-ND	Simple Ballast Controller	8-SOP	1677.00/3,000		
FAN7544N-ND	Simple Ballast Controller	8-Dip	1.29	1.08	.86
FAN7687AMXCT-ND	PC Power Supply Output Monitoring IC	14-SOP	1.44	1.20	.96
FAN7687AMXTR-ND	PC Power Supply Output Monitoring IC	14-SOP	1872.00/3,000		
FAN7710N-ND	Ballast Control IC for Compact Fluorescent Lamp	8-Dip	2.38	1.90	1.43
FAN7711MXCT-ND	Ballast Control for a Fluorescent Lamp	8-SOP	1.58	1.26	.95
FAN7711MXTR-ND	Ballast Control for a Fluorescent Lamp	8-SOP	2419.20/3,000		
FAN7711N-ND	Ballast Control for a Fluorescent Lamp	8-Dip	1.58	1.26	.95
FAN7842MXCT-ND	High and Low Side Gate Driver	8-SOP	.84	.70	.56
FAN7842MXTR-ND	High and Low Side Gate Driver	8-SOP	1092.00/3,000		
FAN8082DTFCT-ND	Bidirectional DC Motor Driver	8-SOP	.84	.63	.48
FAN8741GXCT-ND	Spindle Motor and 6-Channel Driver	56-SSOP-HS	2.00	1.60	1.20
FAN8741GXTR-ND	Spindle Motor and 6-Channel Driver	56-SSOP-HS	1040.00/1,000		
FAN8741MTFXCT-ND	Spindle Motor and 6-Channel Driver	56-TSSOP-EP	1.88	1.50	1.13
FAN8741MTFXTR-ND	Spindle Motor and 6-Channel Driver	56-TSSOP-EP	975.00/1,000		
FAN73832M-ND	Half Bridge Gate Driver	8-SOP	1.08	.90	.72
FAN73832N-ND	Half Bridge Gate Driver	8-Dip	1.28	1.02	.77
FDC6301NCT-ND	Dual N-Channel, Digital FET	SSOT-6	.42	.34	.25
FDC6301NTR-ND	Dual N-Channel, Digital FET	SSOT-6	336.15/3,000		
FDC6303NCT-ND	Digital FET, Dual N-Channel	SSOT-6	.45	.36	.27
FDC6303NTR-ND	Digital FET, Dual N-Channel	SSOT-6	360.45/3,000		
FDC6330LCT-ND	Integrated Load Switch	SSOT-6	.67	.51	.38
FDC6330LTR-ND	Integrated Load Switch	SSOT-6	651.00/3,000		
FDC6331LCT-ND	Integrated Load Switch	SSOT-6	.78	.59	.44
FDC6331LTR-ND	Integrated Load Switch	SSOT-6	756.00/3,000		
FDG901DCT-ND	Slew Rate Control Driver IC for P-Channel MOSFET	SC70-5	.97	.81	.65
FDG901DTR-ND	Slew Rate Control Driver IC for P-Channel MOSFET	SC70-5	1257.00/3,000		
FDG6303NCT-ND	Dual N-Channel, Digital FET	SC70-6	.38	.30	.22
FDG6303NTR-ND	Dual N-Channel, Digital FET	SC70-6	259.20/3,000		
FDG6304PCT-ND	Dual P-Channel, Digital FET	SC70-6	.45	.36	.27
FDG6304PTR-ND	Dual P-Channel, Digital FET	SC70-6	364.50/3,000		
FDG6322CCT-ND	Dual N and P-Channel, Digital FET	SC70-6	.43	.35	.26
FDG6322CTR-ND	Dual N and P-Channel, Digital FET	SC70-6	348.30/3,000		
FDG6323LCT-ND	Integrated Load Switch	SC70-6	.45	.36	.27
FDG6323LTR-ND	Integrated Load Switch	SC70-6	364.50/3,000		
FDG6342LCT-ND	Integrated Load Switch	SC70-6	.48	.39	.29
FDG6342LTR-ND	Integrated Load Switch	SC70-6	388.80/3,000		
FDMF6700CT-ND	Driver plus FET Multi-Chip Module	Power66-40	4.33	3.47	2.70
FDMF6700TR-ND	Driver plus FET Multi-Chip Module	Power66-40	7276.50/3,000		
FDMF8700CT-ND	Driver plus FET Multi-Chip Module	Power88-56	4.49	3.59	2.80
FDMF8700TR-ND	Driver plus FET Multi-Chip Module	Power88-56	7537.32/3,000		
FDMF8704CT-ND	Driver plus FET Multi-Chip Module ***NEW!***	Power88-56	4.28	3.42	2.66

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FDMF8704TR-ND	Driver plus FET Multi-Chip Module ***NEW!***	Power88-56	7182.00/3,000		
FDMF8704VCT-ND	Driver plus FET Multi-Chip Module ***NEW!***	Power88-56	4.28	3.42	2.66
FDMF8704VTR-ND	Driver plus FET Multi-Chip Module ***NEW!***	Power88-56	7182.00/3,000		
FDMF8705CT-ND	Driver plus FET Multi-Chip Module	Power88-56	3.40	2.73	2.12
FDMF8705TR-ND	Driver plus FET Multi-Chip Module	Power88-56	5719.14/3,000		
FDMS2380CT-ND	Dual Integrated Solenoid Driver	18-QFN	11.45	10.32	9.15
FDMS2380TR-ND	Dual Integrated Solenoid Driver	18-QFN	16981.25/2,000		
FHP3130IM8XCT-ND	Single, High Speed Rail-to-Rail Amp	8-SOIC	1.02	.85	.68
FHP3130IM8XTR-ND	Single, High Speed Rail-to-Rail Amp	8-SOIC	1105.00/2,500		
FHP3130IS5XCT-ND	Single, High Speed Rail-to-Rail Amp	SOT-23-5	1.02	.85	.68
FHP3130IS5XTR-ND	Single, High Speed Rail-to-Rail Amp	SOT-23-5	1326.00/3,000		
FHP3131IL6XCT-ND	0.4mA, 2.5V to 12V, 70MHz Rail-to-Rail Amp	6-MicroPak	.87	.73	.58
FHP3131IL6XTR-ND	0.4mA, 2.5V to 12V, 70MHz Rail-to-Rail Amp	6-MicroPak	1848.75/5,000		
FHP3131IS6XCT-ND	0.4mA, 2.5V to 12V, 70MHz Rail-to-Rail Amp	SOT-23-6	.81	.68	.54
FHP3131IS6XTR-ND	0.4mA, 2.5V to 12V, 70MHz Rail-to-Rail Amp	SOT-23-6	1053.00/3,000		
FHP3132IS5XCT-ND	Single, High Speed Rail-to-Rail Amp	SOT-23-5	1.14	.95	.76
FHP3132IS5XTR-ND	Single, High Speed Rail-to-Rail Amp	SOT-23-5	1482.00/3,000		
FHP3194IM14XCT-ND	4:1 High Speed Mux	14-SOIC	2.05	1.64	1.23
FHP3194IM14XTR-ND	4:1 High Speed Mux	14-SOIC	2624.00/2,500		
FHP3194IMTC14XCT-ND	4:1 High Speed Mux	14-TSSOP	2.81	2.25	1.75
FHP3194IMTC14XTR-ND	4:1 High Speed Mux	14-TSSOP	3937.50/2,500		
FHP3232IM8XCT-ND	Dual, High Speed Rail-to-Rail Amp	8-SOIC	1.30	1.04	.78
FHP3232IM8XTR-ND	Dual, High Speed Rail-to-Rail Amp	8-SOIC	1664.00/2,500		
FHP3350IM14XCT-ND	Triple, Voltage Feedback Amp	14-SOIC	1.25	1.00	.75
FHP3350IM14XTR-ND	Triple, Voltage Feedback Amp	14-SOIC	1600.00/2,500		
FHP3392IMTC24XCT-ND	Fixed Gain, Triple 2:1, High Speed Video Mux	24-TSSOP	3.15	2.52	1.96
FHP3392IMTC24XTR-ND	Fixed Gain, Triple 2:1, High Speed Video Mux	24-TSSOP	4410.00/2,500		
FHP3430IM14XCT-ND	Quad, High Speed Rail-to-Rail Amp	14-SOIC	1.60	1.28	.96
FHP3430IM14XTR-ND	Quad, High Speed Rail-to-Rail Amp	14-SOIC	2048.00/2,500		
FHP3430IMTC14XCT-ND	Quad, High Speed Rail-to-Rail Amp	14-TSSOP	1.60	1.28	.96
FHP3430IMTC14XTR-ND	Quad, High Speed Rail-to-Rail Amp	14-TSSOP	2048.00/2,500		
FHP3450IM14XCT-ND	Quad, Voltage Feedback Amp	14-SOIC	1.45	1.16	.87
FHP3450IM14XTR-ND	Quad, Voltage Feedback Amp	14-SOIC	1856.00/2,500		
FIN12ACGFXCT-ND	Low Voltage 12-Bit Bidirectional Serializer/Deserializer	42-BGA	2.34	1.88	1.46
FIN12ACGFXTR-ND	Low Voltage 12-Bit Bidirectional Serializer/Deserializer	42-BGA	3931.20/3,000		
FIN12ACMLXCT-ND	Low Voltage 12-Bit Bidirectional Serializer/Deserializer	32-MLP	2.28	1.82	1.37
FIN12ACMLXTR-ND	Low Voltage 12-Bit Bidirectional Serializer/Deserializer	32-MLP	3494.40/3,000		
FIN24CGFXCT-ND	Low Voltage 24-Bit Bidirectional Serializer/Deserializer	42-BGA	2.79	2.24	1.74
FIN212ACMLXCT-ND	12-Bit, Serializer/Deserializer	32-MLP	2.48	1.98	1.54
FIN212ACMLXTR-ND	12-Bit, Serializer/Deserializer	32-MLP	4158.00/3,000		
FIN224ACGFXCT-ND	22-Bit, Bidirectional Serializer/Deserializer	42-BGA	2.75	2.20	1.71
FIN224ACGFXTR-ND	22-Bit, Bidirectional Serializer/Deserializer	42-BGA	4611.60/3,000		
FIN224ACMLXCT-ND	22-Bit, Bidirectional Serializer/Deserializer	40-MLP	2.61	2.09	1.63
FIN224ACMLXTR-ND	22-Bit, Bidirectional Serializer/Deserializer	40-MLP	4384.80/3,000		
FIN1001M5XCT-ND	3.3V LVDS 1-Bit High Speed Differential Driver	SOT-23-5	.92	.69	.52
FIN1001M5XTR-ND	3.3V LVDS 1-Bit High Speed Differential Driver	SOT-23-5	897.00/3,000		
FIN1002M5XCT-ND	3.3V LVDS 1-Bit High Speed Differential Driver	SOT-23-5	.92	.69	.52
FIN1002M5XTR-ND	3.3V LVDS 1-Bit High Speed Differential Driver	SOT-23-5	897.00/3,000		
FIN1017K8XCT-ND	3.3V LVDS 1-Bit High Speed Differential Driver	US8	1.11	.93	.74
FIN1017K8XTR-ND	3.3V LVDS 1-Bit High Speed Differential Driver	US8	1443.00/3,000		
FIN1018K8XCT-ND	3.3V LVDS 1-Bit High Speed Differential Receiver	US8	1.11	.93	.74
FIN1018K8XTR-ND	3.3V LVDS 1-Bit High Speed Differential Receiver	US8	1443.00/3,000		
FIN1019MXCT-ND	3.3V LVDS High Speed Differential Driver/Receiver	14-SOIC	1.30	1.04	.78
FIN1019MXTR-ND	3.3V LVDS High Speed Differential Driver/Receiver	14-SOIC	1664.00/2,500		
FIN1022MXCT-ND	2x2 LVDS High Speed Crosspoint Switch	16-SOIC	5.00	4.00	3.38
FIN1022MXTR-ND	2x2 LVDS High Speed Crosspoint Switch	16-SOIC	7875.00/2,500		
FIN1027AMXCT-ND	3.3V LVDS 2-Bit High Speed Differential Driver	8-SOIC	1.33	1.06	.80
FIN1027AMXTR-ND	3.3V LVDS 2-Bit High Speed Differential Driver	8-SOIC	1696.00/2,500		
FIN1027K8XCT-ND	3.3V LVDS 2-Bit High Speed Differential Driver	US8	1.35	1.13	.90
FIN1027K8XTR-ND	3.3V LVDS 2-Bit High Speed Differential Driver	US8	1755.00/3,000		
FIN1028MXCT-ND	3.3V LVDS 2-Bit High Speed Differential Receiver	8-SOIC	1.35	1.13	.90
FIN1028MXTR-ND	3.3V LVDS 2-Bit High Speed Differential Receiver	8-SOIC	1462.50/2,500		
FIN1031MXCT-ND	3.3V LVDS 4-Bit High Speed Differential Driver	16-SOIC	1.70	1.36	1.02
FIN1031MXTR-ND	3.3V LVDS 4-Bit High Speed Differential Driver	16-SOIC	2176.00/2,500		
FIN1032MXCT-ND	3.3V LVDS 4-Bit High Speed Differential Receiver	16-SOIC	1.70	1.36	1.02
FIN1032MXTR-ND	3.3V LVDS 4-Bit High Speed Differential Receiver	16-SOIC	2176.00/2,500		
FIN1047MTC-ND	3.3V LVDS 4-Bit Flow-Through High Speed Diff. Driver	16-TSSOP	1.70	1.36	1.02
FIN1047MXCT-ND	3.3V LVDS 4-Bit Flow-Through High Speed Diff. Driver	16-SOIC	1.70	1.36	1.02
FIN1047MXTR-ND	3.3V LVDS 4-Bit Flow-Through High Speed Diff. Driver	16-SOIC	2176.00/2,500		
FIN1048MXCT-ND	3.3V LVDS 4-Bit Flow-Through High Speed Diff. Receiver	16-SOIC	1.98	1.58	1.19
FIN1048MXTR-ND	3.3V LVDS 4-Bit Flow-Through High Speed Diff. Receiver	16-SOIC	2528.00/2,500		
FIN1049MTCXCT-ND	LVDS Dual Line Driver with Dual Line Receiver	16-TSSOP	1.98	1.58	1.19
FIN1049MTCXTR-ND	LVDS Dual Line Driver with Dual Line Receiver	16-TSSOP	2528.00/2,500		
FIN1101K8XCT-ND	LVDS Single Port High Speed Repeater	US8	1.43	1.14	.86
FIN1101K8XTR-ND	LVDS Single Port High Speed Repeater	US8	2188.80/3,000		
FIN1102MTCXCT-ND	LVDS Dual Port High Speed Repeater	14-TSSOP	2.30	1.84	1.43
FIN1104MTC-ND	LVDS 4 Port High Speed Repeater	24-TSSOP	4.21	3.37	2.62
FIN1104MTCXCT-ND	LVDS 4 Port High Speed Repeater	24-TSSOP	4.21	3.37	2.62
FIN1104MTCXTR-ND	LVDS 4 Port High Speed Repeater	24-TSSOP	5890.50/2,500		
FIN1108MTD-ND	LVDS 8 Port High Speed Repeater	48-TSSOP	4.39	3.51	2.73
FIN1108MTDXCT-ND	LVDS 8 Port High Speed Repeater	48-TSSOP	3.38	2.70	2.10
FIN1108MTDXTR-ND	LVDS 8 Port High Speed Repeater	48-TSSOP	1912.50/1,000		
FIN1215MTDXCT-ND	LVDS 21-Bit Serializer/Deserializer	48-TSSOP	4.21	3.37	2.62
FIN1216MTDXCT-ND	LVDS 21-Bit Serializer/Deserializer	48-TSSOP	4.21	3.37	2.62
FIN1531MXCT-ND	5V LVDS 4-Bit High Speed Differential Driver	16-SOIC	1.88	1.50	1.13
FIN1531MXTR-ND	5V LVDS 4-Bit High Speed Differential Driver	16-SOIC	2400.00/2,500		
FIN1532MXCT-ND	5V LVDS 4-Bit High Speed Differential Receiver	16-SOIC	2.06	1.65	1.24
FIN1532MXTR-ND	5V LVDS 4-Bit High Speed Differential Receiver	16-SOIC	2640.00/2,500		
FIN3383MTDXCT-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	2.70	2.16	1.68
FIN3383MTDXTR-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	1530.00/1,000		
FIN3384MTDXCT-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	2.70	2.16	1.68
FIN3384MTDXTR-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	1530.00/1,000		
FIN3385MTDXCT-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	2.48	1.98	1.54
FIN3385MTDXTR-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	1402.50/1,000		
FIN3386MTDXCT-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	3.65	2.92	2.27

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
FIN3386MTDXTR-ND	Low Voltage 28-Bit Flat Panel Display Link Serializer/ Deserializer	56-TSSOP	2065.50/1,000		
FPF1003CT-ND	IntelliMAX™ Advanced Load Management Products	6-WLCSP	1.10	.92	.74
FPF1003TR-ND	IntelliMAX™ Advanced Load Management Products	6-WLCSP	2379.00/5,000		
FPF1004CT-ND	IntelliMAX™ Advanced Load Management Products	8-WLCSP	1.16	.97	.77
FPF1004TR-ND	IntelliMAX™ Advanced Load Management Products	8-WLCSP	2454.38/5,000		
FPF1005CT-ND	IntelliMAX™ P-Channel MOSFET Load Switch	6-MLP	.88	.66	.50
FPF1005TR-ND	IntelliMAX™ P-Channel MOSFET Load Switch	6-MLP	858.00/3,000		
FPF1007CT-ND	IntelliMAX™ P-Channel MOSFET Load Switch ***NEW!***	MicroFET	.88	.66	.50
FPF1007TR-ND	IntelliMAX™ P-Channel MOSFET Load Switch ***NEW!***	MicroFET	858.00/3,000		
FPF1008CT-ND	IntelliMAX™ P-Channel MOSFET Load Switch ***NEW!***	MicroFET	.88	.66	.50
FPF1008TR-ND	IntelliMAX™ P-Channel MOSFET Load Switch ***NEW!***	MicroFET	858.00/3,000		
FPF1009CT-ND	IntelliMAX™ P-Channel MOSFET Load Switch ***NEW!***	MicroFET	.88	.66	.50
FPF1009TR-ND	IntelliMAX™ P-Channel MOSFET Load Switch ***NEW!***	MicroFET	858.00/3,000		
FPF2000CT-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	.83	.69	.55
FPF2000TR-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1072.50/3,000		
FPF2001CT-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	.83	.69	.55
FPF2001TR-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1072.50/3,000		
FPF2002CT-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	.83	.69	.55
FPF2002TR-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1072.50/3,000		
FPF2003CT-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	.83	.69	.55
FPF2003TR-ND	50mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1072.50/3,000		
FPF2004CT-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	.83	.69	.55
FPF2004TR-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1072.50/3,000		
FPF2005CT-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	.83	.69	.55
FPF2005TR-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1072.50/3,000		
FPF2006CT-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	.83	.69	.55
FPF2006TR-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1072.50/3,000		
FPF2007CT-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	.83	.69	.55
FPF2007TR-ND	100mA IntelliMAX™ Load Switch, Full Protection	SC70-5	1072.50/3,000		
FPF2100CT-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	.91	.76	.61
FPF2100TR-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1181.70/3,000		
FPF2101CT-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	.91	.76	.61
FPF2101TR-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1181.70/3,000		
FPF2102CT-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	.91	.76	.61
FPF2102TR-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1181.70/3,000		
FPF2103CT-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	.91	.76	.61
FPF2103TR-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1181.70/3,000		
FPF2104CT-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	.99	.83	.66
FPF2104TR-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1287.00/3,000		
FPF2105CT-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	.99	.83	.66
FPF2105TR-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1287.00/3,000		
FPF2106CT-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	.99	.83	.66
FPF2106TR-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1287.00/3,000		
FPF2107CT-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	.99	.83	.66
FPF2107TR-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1287.00/3,000		
FPF2109CT-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	.99	.83	.66
FPF2109TR-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1287.00/3,000		
FPF2110CT-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	.99	.83	.66
FPF2110TR-ND	400mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1287.00/3,000		
FPF2116CT-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	.99	.83	.66
FPF2116TR-ND	200mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1287.00/3,000		
FPF2123CT-ND	150mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.05	.88	.70
FPF2123TR-ND	150mA IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1365.00/3,000		
FPF2124CT-ND	IntelliMAX™ Advanced Load Management Products	SOT-23-5	1.05	.88	.70
FPF2124TR-ND	IntelliMAX™ Advanced Load Management Products	SOT-23-5	1365.00/3,000		
FPF2140CT-ND	200mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	.99	.83	.66
FPF2140TR-ND	200mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	1287.00/3,000		
FPF2142CT-ND	200mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	.99	.83	.66
FPF2142TR-ND	200mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	1287.00/3,000		
FPF2143CT-ND	200mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	.99	.83	.66
FPF2143TR-ND	200mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	1287.00/3,000		
FPF2144CT-ND	400mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	.99	.83	.66
FPF2144TR-ND	400mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	1287.00/3,000		
FPF2146CT-ND	400mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	.99	.83	.66
FPF2146TR-ND	400mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	1287.00/3,000		
FPF2147CT-ND	400mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	.99	.83	.66
FPF2147TR-ND	400mA IntelliMAX™ Load Switch, Full Protection Reverse Current Blocking	6-MLP	1287.00/3,000		
FPF2148CT-ND	Full Function Load Switch	MicroFET-6	.99	.83	.66
FPF2148TR-ND	Full Function Load Switch	MicroFET-6	1287.00/3,000		
FPF2163CT-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	6-MLP	1.07	.90	.72
FPF2163TR-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	6-MLP	1396.20/3,000		
FPF2164CT-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	6-MLP	1.07	.90	.72
FPF2164TR-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	6-MLP	1396.20/3,000		
FPF2165CT-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	6-MLP	1.07	.90	.72
FPF2165TR-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	6-MLP	1396.20/3,000		
FPF2172CT-ND	IntelliMAX™ Advanced Load Management Products	Power33-6	1.20	1.00	.80
FPF2172TR-ND	IntelliMAX™ Advanced Load Management Products	Power33-6	1556.10/3,000		
FPF2174CT-ND	IntelliMAX™ Advanced Load Management Products	6-MLP	1.32	1.10	.88
FPF2174TR-ND	IntelliMAX™ Advanced Load Management Products	6-MLP	1716.00/3,000		
FPF2180CT-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	1.07	.90	.72
FPF2180TR-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	2282.25/5,000		
FPF2182CT-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	1.07	.90	.72
FPF2182TR-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	2282.25/5,000		
FPF2183CT-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	1.07	.90	.72
FPF2183TR-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	2282.25/5,000		
FPF2184CT-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	1.07	.90	.72
FPF2184TR-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	2282.25/5,000		
FPF2186CT-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	1.07	.90	.72
FPF2186TR-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	2282.25/5,000		
FPF2187CT-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	1.07	.90	.72
FPF2187TR-ND	Full Function Load Switch with Reverse Current Blocking	6-WLCSP	2282.25/5,000		
FPF2193CT-ND	Full Function Load Switch with Adjustable Current Limit	6-WLCSP	1.16	.97	.77
FPF2193TR-ND	Full Function Load Switch with Adjustable Current Limit	6-WLCSP	2454.38/5,000		
FPF2194CT-ND	Full Function Load Switch with Adjustable Current Limit	6-WLCSP	1.16	.97	.77
FPF2194TR-ND	Full Function Load Switch with Adjustable Current Limit	6-WLCSP	2454.38/5,000		
FPF2195CT-ND	Full Function Load Switch with Adjustable Current Limit	6-WLCSP	1.16	.97	.77
FPF2195TR-ND	Full Function Load Switch with Adjustable Current Limit	6-WLCSP	2454.38/5,000		
FPF2500CT-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.02	.85	.68
FPF2500TR-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1326.00/3,000		
FPF2501CT-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.02	.85	.68
FPF2501TR-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1326.00/3,000		
FPF2502CT-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.05	.88	.70
FPF2502TR-ND	Adjustable, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1326.00/3,000		
FPF2503CT-ND	Fixed, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.02	.85	.68
FPF2503TR-ND	Fixed, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1326.00/3,000		
FPF2504CT-ND	Fixed, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.02	.85	.68
FPF2504TR-ND	Fixed, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1326.00/3,000		
FPF2505CT-ND	Fixed, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.02	.85	.68
FPF2505TR-ND	Fixed, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1326.00/3,000		
FPF2506CT-ND	Fixed, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1.11	.93	.75
FPF2506TR-ND	Fixed, IntelliMAX™ Load Switch, Full Protection	SOT-23-5	1448.85/3,000		
FPP06R001-ND	75V, 60A Synchronous Rectifier Module ***NEW!***	EPM-15	7.00	5.60	4.73
FS6X0420RJXCT-ND	FPS™ for Off-Line DC/DC Converters	D2-PAK-6	1.25	1.00	.75
FS6X0420RJXTR-ND	FPS™ for Off-Line DC/DC Converters	D2-PAK-6	540.00/800		
FS6X0720RJXCT-ND	FPS™ for Off-Line DC/DC Converters	D2-PAK-6	1.38	1.10	.83
FS6X0720RJXTR-ND	FPS™ for Off-Line DC/DC Converters	D2-PAK-6	594.00/800		
FS6X1220RJXCT-ND	FPS™ for Off-Line DC/DC Converters	D2-PAK-6	2.36	1.89	1.47
FS6X1220RJXTR-ND	FPS™ for Off-Line DC/DC Converters	D2-PAK-6	1092.00/800		
FS6X1220RTYDTU-ND	FPS™ for Off-Line DC/DC Converters	TO-220F-5L	2.25	1.80	1.40
FS7M0880TU-ND	800V, 8A Power Switch	TO-3P-5L	2.93	2.34	1.82
FS7M0880YDTU-ND	800V, 8A Power Switch	TO-3P-5L	2.93	2.34	1.82
FS8S0765RCBYDTU-ND	650V, 7A Power Switch	TO-220-5L	2.88	2.30	1.73
FS8S0965RCBYDTU-ND	650V, 9A Power Switch	TO-220-5L	2.81	2.25	1.75
FSA110K8XCT-ND	USB2.0 Audio and Wired-OR Hi Speed Switch with Negative Signal Capability and Built-in Termination ***NEW!***	8-VSOP	1.11	.93	.74
FSA110K8XTR-ND	USB2.0 Audio and Wired-OR Hi Speed Switch with Negative Signal Capability and Built-in Termination ***NEW!***	8-VSOP	1443.00/3,000		
FSA110UMXCT-ND	USB2.0 Audio and Wired-OR Hi Speed Switch with Negative Signal Capability and Built-in Termination ***NEW!***	10-UMLP	1.11	.93	.74
FSA110UMXTR-ND	USB2.0 Audio and Wired-OR Hi Speed Switch with Negative Signal Capability and Built-in Termination ***NEW!***	10-UMLP	2358.75/5,000		
FSA201L10XCT-ND	USB2.0 Full Speed and Audio Switch with Negative Signal Capability	10-MicroPak	1.41	1.18	.94
FSA201L10XTR-ND	USB2.0 Full Speed and Audio Switch with Negative Signal Capability	10-MicroPak	2996.25/5,000		
FSA201MUXCT-ND	USB2.0 Full Speed and Audio Switch with Negative Signal Capability	10-MSOP	1.75	1.40	1.05
FSA201MUXTR-ND	USB2.0 Full Speed and Audio Switch with Negative Signal Capability	10-MSOP	3584.00/4,000		
FSA203BQXCT-ND	Multimedia High Speed USB, Video, and Negative Swing Audio Switch with Video Amp/Filter	20-DQFN	2.00	1.60	1.20
FSA203BQXTR-ND	Multimedia High Speed USB, Video, and Negative Swing Audio Switch with Video Amp/Filter	20-DQFN	3072.00/3,000		
FSA203MTCXCT-ND	Multimedia High Speed USB, Video, and Negative Swing Audio Switch with Video Amp/Filter	20-TSSOP	2.00	1.60	1.20
FSA203MTCXTR-ND	Multimedia High Speed USB, Video, and Negative Swing Audio Switch with Video Amp/Filter	20-TSSOP	2560.00/2,500		
FSA221L10XCT-ND	USB2.0 High Speed (480Mbps) and Audio Switches with Negative Signal Capability	10-MicroPak	1.14	.95	.76
FSA221L10XTR-ND	USB2.0 High Speed (480Mbps) and Audio Switches with Negative Signal Capability	10-MicroPak	2422.50/5,000		
FSA221MUXCT-ND	USB2.0 High Speed (480Mbps) and Audio Switches with Negative Signal Capability	10-MSOP	1.14	.95	.76
FSA221MUXTR-ND	USB2.0 High Speed (480Mbps) and Audio Switches with Negative Signal Capability	10-MSOP	1976.00/4,000		
FSA221UMXCT-ND	USB2.0 High Speed (480Mbps) and Audio Switches with Negative Signal Capability	10-MLP	1.93	1.54	1.16
FSA221UMXTR-ND	USB2.0 High Speed (480Mbps) and Audio Switches with Negative Signal Capability	10-MLP	4812.50/5,000		
FSA1156L6XCT-ND	Low R_{ON} Low Voltage SPST Analog Switch	6-MicroPak	.68	.51	.39
FSA1156L6XTR-ND	Low R_{ON} Low Voltage SPST Analog Switch	6-MicroPak	1083.75/5,000		
FSA1156P6XCT-ND	Low R_{ON} Low Voltage SPST Analog Switch	SC70-6	.68	.51	.39
FSA1156P6XTR-ND	Low R_{ON} Low Voltage SPST Analog Switch	SC70-6	663.00/3,000		
FSA1157L6XCT-ND	Low R_{ON} Low Voltage SPST Analog Switch	6-MicroPak	.68	.51	.39
FSA1157L6XTR-ND	Low R_{ON} Low Voltage SPST Analog Switch	6-MicroPak	1083.75/5,000		
FSA1157P6XCT-ND	Low R_{ON} Low Voltage SPST Analog Switch	SC70-6	.68	.51	.39
FSA1157P6XTR-ND	Low R_{ON} Low Voltage SPST Analog Switch	SC70-6	663.00/3,000		
FSA1256L8XCT-ND	Low R_{ON} Low Voltage Dual SPST Analog Switch with Low I_{CCT} “A” Option	8-MicroPak	.90	.75	.60
FSA1256L8XTR-ND	Low R_{ON} Low Voltage Dual SPST Analog Switch with Low I_{CCT} “A” Option	8-MicroPak	1593.75/5,000		
FSA1257L8XCT-ND	Low R_{ON} Low Voltage Dual SPST Analog Switch with Low I_{CCT} “A” Option	8-MicroPak	.96	.72	.54
FSA1257L8XTR-ND	Low R_{ON} Low Voltage Dual SPST Analog Switch with Low I_{CCT} “A” Option	8-MicroPak	1530.00/5,000		
FSA1258L8XCT-ND	Low R_{ON} Low Voltage Dual SPST Analog Switch with Low I_{CCT} “A” Option	8-MicroPak	.96	.72	.54
FSA1258L8XTR-ND	Low R_{ON} Low Voltage Dual SPST Analog Switch with Low I_{CCT} “A” Option	8-MicroPak	1530.00/5,000		
FSA1259K8XCT-ND	Low Voltage, 1-Ohm Dual SPST Analog Switch with Power Off Isolation	US-8	.88	.66	.50
FSA1259K8XTR-ND	Low Voltage, 1-Ohm Dual SPST Analog Switch with Power Off Isolation	US-8	858.00/3,000		
FSA2156L6XCT-ND	Low Voltage SPST Analog Switch	6-MicroPak	.92	.69	.52
FSA2156L6XTR-ND	Low Voltage SPST Analog Switch	6-MicroPak	1466.25/5,000		
FSA2156P6XCT-ND	Low Voltage SPST Analog Switch	SC70-6	.90	.75	.60
FSA2156P6XTR-ND	Low Voltage SPST Analog Switch	SC70-6	1170.00/3,000		
FSA2257L10XCT-ND	Low R_{ON} Low Voltage Dual SPDT Bi-Directional Analog Switch	10-MicroPak	.81	.68	.54
FSA2257L10XTR-ND	Low R_{ON} Low Voltage Dual SPDT Bi-Directional Analog Switch	10-MicroPak	1721.25/5,000		
FSA2257MUXCT-ND	Low R_{ON} Low Voltage Dual SPDT Bi-Directional Analog Switch	10-MSOP	.86	.72	.57
FSA2257MUXTR-ND	Low R_{ON} Low Voltage Dual SPDT Bi-Directional Analog Switch	10-MSOP	1482.00/4,000		

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FAIRCHILD SEMICONDUCTOR — Digi-Reel® — LINEAR ICs *(Continued)* — RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
FSA2267AMUXCT-ND	0.35-Ohm Low Voltage Dual SPDT Analog Switch	10-MSOP	1.14	.95	.76
FSA2267AMUXTR-ND	0.35-Ohm Low Voltage Dual SPDT Analog Switch	10-MSOP	1976.00/4,000		
FSA2267L10XCT-ND	0.35-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	.78	.65	.52
FSA2267L10XTR-ND	0.35-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	1657.50/5,000		
FSA2268TUMXCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	.84	.63	.48
FSA2268TUMXTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	1338.75/5,000		
FSA2268UMXCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	.84	.63	.48
FSA2268UMXTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	1338.75/5,000		
FSA2269L10XCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	.84	.70	.56
FSA2269L10XTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	1785.00/5,000		
FSA2269TSL10XCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	.81	.68	.54
FSA2269TSL10XTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-MicroPak	1721.25/5,000		
FSA2269TSUMXCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	.81	.68	.54
FSA2269TSUMXTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	1721.25/5,000		
FSA2269UMXCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	.84	.70	.56
FSA2269UMXTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	1785.00/5,000		
FSA2270TUMXCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	.90	.75	.60
FSA2270TUMXTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	1950.00/5,000		
FSA2271TUMXCT-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	1.25	1.00	.75
FSA2271TUMXTR-ND	0.4-Ohm Low Voltage Dual SPDT Analog Switch	10-UMLP	3125.00/5,000		
FSA2357BQXCT-ND	Low R_{ON} 3:1 Analog Switch ***NEW!***	14-DQFN	1.35	1.13	.90
FSA2357BQXTR-ND	Low R_{ON} 3:1 Analog Switch ***NEW!***	14-DQFN	1755.00/3,000		
FSA2357MTCXCT-ND	Low R_{ON} 3:1 Analog Switch ***NEW!***	14-TSSOP	1.35	1.13	.90
FSA2357MTCXTR-ND	Low R_{ON} 3:1 Analog Switch ***NEW!***	14-TSSOP	1440.00/2,500		
FSA2367BQXCT-ND	0.75-Ohm Low R_{ON} Triple SPDT, Negative Swing Audio Source Switch	14-DQFN	1.11	.93	.74
FSA2367BQXTR-ND	0.75-Ohm Low R_{ON} Triple SPDT, Negative Swing Audio Source Switch	14-DQFN	1443.00/3,000		
FSA2367MTCXCT-ND	0.75-Ohm Low R_{ON} Triple SPDT, Negative Swing Audio Source Switch	14-TSSOP	1.50	1.20	.90
FSA2367MTCXTR-ND	0.75-Ohm Low R_{ON} Triple SPDT, Negative Swing Audio Source Switch	14-TSSOP	1920.00/2,500		
FSA2380BQXCT-ND	Low R_{ON} 3:1 Negative Swing Audio Source Switch	14-DQFN	1.50	1.20	.90
FSA2380BQXTR-ND	Low R_{ON} 3:1 Negative Swing Audio Source Switch	14-DQFN	2304.00/3,000		
FSA2380MTCXCT-ND	Low R_{ON} 3:1 Negative Swing Audio Source Switch	14-TSSOP	1.50	1.20	.90
FSA2380MTCXTR-ND	Low R_{ON} 3:1 Negative Swing Audio Source Switch	14-TSSOP	1920.00/2,500		
FSA2567MPXCT-ND	Low Power, Dual SIM Card Analog Switch	16-MLP	1.25	1.00	.75
FSA2567MPXTR-ND	Low Power, Dual SIM Card Analog Switch	16-MLP	1920.00/3,000		
FSA3157P6XCT-ND	Low Voltage SPDT Analog Switch	SC70-6	.39	.32	.22
FSA3157P6XTR-ND	Low Voltage SPDT Analog Switch	SC70-6	306.00/3,000		
FSA3357K8XCT-ND	Low Voltage SP3T Analog Switch	US8	.75	.63	.50
FSA3357K8XTR-ND	Low Voltage SP3T Analog Switch	US8	975.00/3,000		
FSA4157AL6XCT-ND	1-Ohm Low Voltage SPDT Analog Switch	6-MicroPak	.68	.51	.39
FSA4157AL6XTR-ND	1-Ohm Low Voltage SPDT Analog Switch	6-MicroPak	1083.75/5,000		
FSA4157AP6XCT-ND	1-Ohm Low Voltage SPDT Analog Switch	SC70-6	.50	.38	.29
FSA4157AP6XTR-ND	1-Ohm Low Voltage SPDT Analog Switch	SC70-6	487.50/3,000		
FSA4157L6XCT-ND	1-Ohm Low Voltage SPDT Analog Switch	6-MicroPak	.68	.51	.39
FSA4157L6XTR-ND	1-Ohm Low Voltage SPDT Analog Switch	6-MicroPak	1083.75/5,000		
FSA4157P6XCT-ND	1-Ohm Low Voltage SPDT Analog Switch	SC70-6	.50	.38	.29
FSA4157P6XTR-ND	1-Ohm Low Voltage SPDT Analog Switch	SC70-6	487.50/3,000		
FSA4159P6XCT-ND	1-Ohm Low Voltage SPDT Analog Switch	SC70-6	.76	.57	.43
FSA4159P6XTR-ND	1-Ohm Low Voltage SPDT Analog Switch	SC70-6	741.00/3,000		
FSA5157L6XCT-ND	0.4-Ohm Low Voltage SPDT Analog Switch	6-MicroPak	.78	.59	.44
FSA5157L6XTR-ND	0.4-Ohm Low Voltage SPDT Analog Switch	6-MicroPak	1243.13/5,000		
FSAL200QSCXCT-ND	WB Quad 2:1 Analog Mux/Demux Switch	16-QSOP	1.20	1.00	.80
FSAL200QSCXTR-ND	WB Quad 2:1 Analog Mux/Demux Switch	16-QSOP	1300.00/2,500		
FSAV331QSCXCT-ND	Dual Channel 4:1 Video Switch	16-QSOP	.93	.78	.62
FSAV331QSCXTR-ND	Dual Channel 4:1 Video Switch	16-QSOP	1007.50/2,500		
FSAV332QSCXCT-ND	Quad Video Switch with Individual Enables	16-QSOP	.93	.78	.62
FSAV332QSCXTR-ND	Quad Video Switch with Individual Enables	16-QSOP	1007.50/2,500		
FSAV430BQXCT-ND	Low Voltage 1.1GHz, 4-Channel, 2:1 Video Switch	16-DQFN	1.26	1.05	.84
FSAV430BQXTR-ND	Low Voltage 1.1GHz, 4-Channel, 2:1 Video Switch	16-DQFN	1638.00/3,000		
FSAV430QSCXCT-ND	Low Voltage 1.1GHz, 4-Channel, 2:1 Video Switch	16-QSOP	1.26	1.05	.84
FSAV430QSCXTR-ND	Low Voltage 1.1GHz, 4-Channel, 2:1 Video Switch	16-QSOP	1365.00/2,500		
FSAV450QSCXCT-ND	800MHz, 4-Channel, 2:1 Video Switch	16-QSOP	1.44	1.20	.96
FSAV450QSCXTR-ND	800MHz, 4-Channel, 2:1 Video Switch	16-QSOP	1560.00/2,500		
FSCQ0765RTYDTU-ND	Green Mode Power Switch for Quasi-Resonant Switching Converter	TO-220F-5	1.88	1.50	1.13
FSCQ1265RTYDTU-ND	Green Mode Power Switch for Quasi-Resonant Switching Converter	TO-220F-5	2.40	1.92	1.44
FSCQ1565RTYDTU-ND	Green Mode Power Switch for Quasi-Resonant Switching Converter	TO-220F-5	2.88	2.30	1.73
FSFR2100-ND	FPS™ for Half Bridge Resonant Converter	9-SIP	5.60	4.48	3.78
FSQ0165RL-ND	Green Mode Power Switch for Valley Switching Converter	8-LSOP	1.20	1.00	.80
FSQ0165RN-ND	Green Mode Power Switch for Valley Switching Converter	8-Dip	.90	.75	.60
FSQ0265RL-ND	Green Mode Power Switch for Valley Switching Converter	8-LSOP	1.25	1.00	.75
FSQ0265RN-ND	Green Mode Power Switch for Valley Switching Converter	8-Dip	1.02	.85	.68
FSQ0365RL-ND	Green Mode Power Switch for Valley Switching Converter	8-LSOP	1.30	1.04	.78
FSQ0565RWDTU-ND	Green Mode Power Switch for Quasi-Resonant Operation	TO-220F-6	2.13	1.70	1.28
FSQ110-ND	Green Mode Power Switch ***NEW!***	8-Dip	1.14	.95	.76
FSQ211-ND	Green Mode Power Switch	8-Dip	.75	.63	.50
FSQ311L-ND	Green Mode Power Switch for Valley Switching Converter	8-LSOP	.96	.80	.64
FSQ321-ND	Green Mode Power Switch for Valley Switching Converter	8-Dip	.96	.80	.64
FSQ321L-ND	Green Mode Power Switch for Valley Switching Converter	8-LSOP	.96	.80	.64
FSQ510-ND	Green Mode Power Switch for Valley Switching Converter	7-Dip	.96	.80	.64
FSQ510H-ND	Green Mode Power Switch for Valley Switching Converter	8-Dip	.96	.80	.64
FSSD06BQXCT-ND	SD/SDIO and MMC Two-Port Mux	24-MLP	2.38	1.90	1.43
FSSD06BQXTR-ND	SD/SDIO and MMC Two-Port Mux	24-MLP	3648.00/3,000		
FST16233MTD-ND	16-to-32-Bit Mux/Demux Bus Switch	56-TSSOP	1.33	1.06	.80
FSUSB11L10XCT-ND	Low Power Full Speed USB (12Mbps) Switch	10-MicroPak	1.23	1.03	.82
FSUSB11L10XTR-ND	Low Power Full Speed USB (12Mbps) Switch	10-MicroPak	2613.75/5,000		
FSUSB20MUXCT-ND	LP 1-Port High Speed USB 2.0 (480Mbps) Switch	10-MSOP	1.43	1.14	.86
FSUSB20MUXTR-ND	LP 1-Port High Speed USB 2.0 (480Mbps) Switch	10-MSOP	2918.40/4,000		
FSUSB22BQXCT-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	16-DQFN	1.25	1.00	.75
FSUSB22BQXTR-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	16-DQFN	1920.00/3,000		
FSUSB22QSCXCT-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	16-QSOP	1.25	1.00	.75
FSUSB22QSCXTR-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	16-QSOP	1600.00/2,500		
FSUSB30L10XCT-ND	Low Power 2-Port HS USB 2.0 (480Mbps) Switch	10-MicroPak	1.41	1.18	.94
FSUSB30L10XTR-ND	Low Power 2-Port HS USB 2.0 (480Mbps) Switch	10-MicroPak	2996.25/5,000		
FSUSB30MUXCT-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	10-MSOP	1.41	1.18	.94
FSUSB30MUXTR-ND	LP 2-Port High Speed USB 2.0 (480Mbps) Switch	10-MSOP	2444.00/4,000		
FSUSB30UMXCT-ND	Low Power 2-Port HS USB 2.0 (480Mbps) Switch	10-MLP	1.41	1.18	.94
FSUSB30UMXTR-ND	Low Power 2-Port HS USB 2.0 (480Mbps) Switch	10-MLP	2996.25/5,000		
FSUSB31K8XCT-ND	LP 1-Port High Speed USB 2.0 (480Mbps) Switch	8-US	1.41	1.18	.94
FSUSB31K8XTR-ND	LP 1-Port High Speed USB 2.0 (480Mbps) Switch	8-US	1833.00/3,000		
FSUSB31L8XCT-ND	LP Dual SPST HS USB 2.0 (480Mbps) Switch	8-MicroPak	1.41	1.18	.94
FSUSB31L8XTR-ND	LP Dual SPST HS USB 2.0 (480Mbps) Switch	8-MicroPak	2996.25/5,000		
FSUSB40L10XCT-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-MicroPak	1.41	1.18	.94
FSUSB40L10XTR-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-MicroPak	2996.25/5,000		
FSUSB40UMXCT-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-UMLP	1.93	1.54	1.16
FSUSB40UMXTR-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-UMLP	4812.50/5,000		
FSUSB42UMXCT-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-UMLP	1.41	1.18	.94
FSUSB42UMXTR-ND	LP 2-Port HS USB 2.0 (480Mbps) Switch	10-UMLP	2996.25/5,000		
FXL2TD245L10XCT-ND	Low Voltage Dual Supply 2-Bit Signal Translator	10-MicroPak	1.23	1.03	.82
FXL2TD245L10XTR-ND	Low Voltage Dual Supply 2-Bit Signal Translator	10-MicroPak	2613.75/5,000		
FXL4TD245BQXCT-ND	Low Voltage Dual Supply 4-Bit Signal Translator	16-DQFN	1.32	1.10	.88
FXL4TD245BQXTR-ND	Low Voltage Dual Supply 4-Bit Signal Translator	16-DQFN	1716.00/3,000		
FXL4245MPXCT-ND	Low Voltage Dual Supply 8-Bit Signal Translator	24-MLP	1.38	1.15	.92
FXL4245MPXTR-ND	Low Voltage Dual Supply 8-Bit Signal Translator	24-MLP	1794.00/3,000		
FXLH1T45L6XCT-ND	Low Volt. 1-Bit Bi-Directional Level Translator	6-MicroPak	.96	.72	.54
FXLH1T45L6XTR-ND	Low Volt. 1-Bit Bi-Directional Level Translator	6-MicroPak	1530.00/5,000		
FXLH42245MPXCT-ND	Low Voltage Dual Supply 8-Bit Signal Translator	24-MLP	1.38	1.15	.92
FXLH42245MPXTR-ND	Low Voltage Dual Supply 8-Bit Signal Translator	24-MLP	1794.00/3,000		
FXLP34P5XCT-ND	Single Bit Uni-Directional Translator	SC70-5	.84	.63	.48
FXLP34P5XTR-ND	Single Bit Uni-Directional Translator	SC70-5	819.00/3,000		
GTLP16617MTDXCT-ND	17-Bit TTL/GTLP Sync. Bus Transceiver	56-TSSOP	4.95	3.96	3.08
GTLP16617MTDXTR-ND	17-Bit TTL/GTLP Sync. Bus Transceiver	56-TSSOP	2805.00/1,000		
KA723-ND	Precision Voltage Regulator	14-Dip	.52	.39	.30
KA7805ETU-ND	3-Terminal 1A Positive Voltage Regulator	TO-220	.47	.38	.28
KSC5305DTU-ND	High Voltage High Speed Power Switch	TO-220	.68	.52	.39
LM78L05ACZFS-ND	5V, 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.32	.26	.18
LM78L12ACZFS-ND	12V, 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.40	.32	.22
LM78M05CTFS-ND	5V, 3-Terminal 0.5A Positive Voltage Regulator	TO-220	.50	.40	.30
LM79L05ACZFS-ND	5V, 3-Terminal 0.1A Negative Voltage Regulator	TO-92	.40	.32	.22
LM311MFS-ND	0°C-70°C Single Comparator	8-SOP	.45	.36	.27
LM311NFS-ND	0°C-70°C Single Comparator	8-Dip	.45	.36	.27
LM317LMFS-ND	0.1A, 3-Terminal Positive Adjustable Regulator	8-SOP	.40	.32	.24
LM317LZ-ND	0.1A, 3-Terminal Positive Adjustable Regulator	TO-92	.43	.34	.24
LM317MDTXFSCT-ND	0.5A, 3-Terminal Positive Adjustable Regulator	D-PAK	.48	.36	.27
LM317MDTXFSTR-ND	0.5A, 3-Terminal Positive Adjustable Regulator	D-PAK	320.00/2,000		
LM317TFS-ND	1.5A, 3-Terminal Positive Adjustable Regulator	TO-220	.48	.36	.27
LM319MXFSCT-ND	5V, Dual Comparator	14-SOP	.55	.44	.33
LM319MXFSTR-ND	5V, Dual Comparator	14-SOP	447.00/3,000		
LM336Z25-ND	2.5V, Programmable Shunt Regulator	TO-92	.36	.30	.21
LM336Z5-ND	5V, Programmable Shunt Regulator	TO-92	.36	.30	.21
LM337TFS-ND	1.5A, 3-Terminal Negative Adjustable Regulator	TO-220	.60	.45	.34
LM339ANFS-ND	0°C-70°C Quad Comparator	14-Dip	.45	.36	.27
LM339MFS-ND	0°C-70°C Quad Comparator	14-SOP	.44	.36	.25
LM339MXFSCT-ND	0°C-70°C Quad Comparator	14-SOP	.44	.36	.25
LM339MXFSTR-ND	0°C-70°C Quad Comparator	14-SOP	348.00/3,000		
LM339NFS-ND	0°C-70°C Quad Comparator	14-Dip	.47	.39	.27
LM350TFS-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator	TO-220	.86	.65	.49
LM393AN-ND	0°C-70°C Dual Differential Comparator	8-Dip	.39	.32	.22
LM393MFS-ND	0°C-70°C Dual Differential Comparator	8-SOP	.43	.34	.24
LM393MXFSCT-ND	0°C-70°C Dual Differential Comparator	8-SOP	.43	.34	.24
LM393MXFSTR-ND	0°C-70°C Dual Differential Comparator	8-SOP	291.00/3,000		
LM393NFS-ND	0°C-70°C Dual Differential Comparator	8-Dip	.43	.34	.24
LM431ACZFS-ND	Programmable Shunt Regulator	TO-92	.27	.21	.15
LM555CMFS-ND	Single Timer	8-SOP	.44	.36	.25
LM555CNFS-ND	Single Timer	8-Dip	.44	.36	.25
LM556CNFS-ND	Dual Timer	14-Dip	.55	.44	.33
LM2901NFS-ND	Quad Comparator	14-Dip	.45	.36	.27
LM2903MFS-ND	Dual Differential Comparator	8-SOP	.40	.33	.22
LM2903NFS-ND	Dual Differential Comparator	8-Dip	.41	.34	.23
LM7805ACT-ND	0°C-125°C, 3-Terminal 1A Positive Voltage Regulator	TO-220	.47	.38	.28
LM7805CT-ND	-40°C-125°C, 3-Terminal 1A Positive Voltage Regulator	TO-220	.47	.38	.28
LM7905CTFS-ND	-5V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	.27
MB2SCT-ND	Bridge Rectifier	4-SOIC	.44	.36	.25
MB2STR-ND	Bridge Rectifier	4-SOIC	341.70/3,000		
MB4SCT-ND	Bridge Rectifier	4-SOIC	.47	.39	.27
MB4STR-ND	Bridge Rectifier	4-SOIC	372.30/3,000		
MB6SCT-ND	Bridge Rectifier	4-SOIC	.47	.39	.27
MB6STR-ND	Bridge Rectifier	4-SOIC	372.30/3,000		
MC78L05ACD-ND	5V, 5% 3-Terminal 0.1A Positive Voltage Regulator	8-SOP	.40	.33	.23
MC78L05ACPFS-ND	5V, 5% 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.32	.26	.18
MC78L08ACP-ND	8V, 4% 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.40	.32	.22
MC78L15ACPFS-ND	15V, 5% 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.40	.32	.22
MC78M05CDTXCT-ND	5V, 0.5A 3-Terminal Positive Voltage Regulator	D-PAK	.50	.40	.30
MC78M05CDTXTR-ND	5V, 0.5A 3-Terminal Positive Voltage Regulator	D-PAK	280.00/2,000		
MC78M05CTFS-ND	5V, 0.5A 3-Terminal Positive Voltage Regulator	TO-220	.48	.36	.27
MC78T05CTFS-ND	5V, 3A 3-Terminal Positive Voltage Regulator	TO-220	.90	.75	.60
MC78T12CTFS-ND	12V, 3A 3-Terminal Positive Voltage Regulator	TO-220	.90	.75	.60
MC78T15CTFS-ND	15V, 3A 3-Terminal Positive Voltage Regulator	TO-220	.90	.75	.60
MC7812ECT-ND	12V, 1A 3-Terminal Positive Voltage Regulator	TO-220	.47	.38	.28
MC7905CTFS-ND	-5V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	.27
MC7912CTFS-ND	-12V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.52	.39	.30
MC7915CTFS-ND	-15V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.52	.39	.30
MM74HCU04MXCT-ND	Hex Inverter	14-SOIC	.42	.34	.24
MM74HCU04MXTR-ND	Hex Inverter	14-SOIC	238.50/2,500		
MMBFJ112CT-ND	N-Channel Switch	SOT-23	.39	.31	.22
MMBFJ112TR-ND	N-Channel Switch	SOT-23	260.82/3,000		
QRE1113GRCT-ND	Reflective Object Sensor	SMD	.69	.52	.39
QRE1113GRTR-ND	Reflective Object Sensor	SMD	230.09/1,000		
SCAN18245TSSC-ND	Tri-State Non-Inverting Transceiver	56-SSOP	8.10	6.48	5.47
SG6518DZ-ND	LCD Power Supply Supervisor ***NEW!***	16-Dip	.84	.63	.48

FAIRCHILD SEMICONDUCTOR — Digi-Reel® — LOW DROPOUT REGULATORS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
FAN1086M-ND	Adjustable, 1.5A LDO Linear Regulator	TO-263	1.02	.85	.68
FAN1086M33-ND	3.3V, 1.5A Fixed LDO Linear Regulator	TO-263	1.02	.85	.68
FAN1086M285-ND	2.85V, 1.5A Fixed LDO Linear Regulator	TO-263	1.02	.85	.68
FAN1540BMPXCT-ND	3.3V, 1.3A, LDO with Low Quiescent Current	6-MLP	1.02	.85	.68
FAN1540BMPXTR-ND	3.3V, 1.3A, LDO with Low Quiescent Current	6-MLP	1326.00/3,000		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

LOW DROPOUT REGULATORS *(Continued)*

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FAN2500SXCT-ND	Adjustable, 100mA, CMOS LDO Regulator	SOT-23-5	.84	.63	.48
FAN2500SXTR-ND	Adjustable, 100mA, CMOS LDO Regulator	SOT-23-5	819.00/3,000		
FAN2500S25XCT-ND	2.5V, 100mA, CMOS LDO Regulator	SOT-23-5	.74	.56	.42
FAN2500S25XTR-ND	2.5V, 100mA, CMOS LDO Regulator	SOT-23-5	721.50/3,000		
FAN2500S28XCT-ND	2.8V, 100mA, CMOS LDO Regulator	SOT-23-5	.84	.63	.48
FAN2500S28XTR-ND	2.8V, 100mA, CMOS LDO Regulator	SOT-23-5	819.00/3,000		
FAN2500S30XCT-ND	3.0V, 100mA, CMOS LDO Regulator	SOT-23-5	.84	.63	.48
FAN2500S30XTR-ND	3.0V, 100mA, CMOS LDO Regulator	SOT-23-5	819.00/3,000		
FAN2500S33XCT-ND	3.3V, 100mA, CMOS LDO Regulator	SOT-23-5	.84	.63	.48
FAN2500S33XTR-ND	3.3V, 100mA, CMOS LDO Regulator	SOT-23-5	819.00/3,000		
FAN2560UC13XCT-ND	1.3V, 350mA, Fast Transient Response LDO Regulator ***NEW!***	5-WLCSP	1.11	.93	.74
FAN2560UC13XTR-ND	1.3V, 350mA, Fast Transient Response LDO Regulator ***NEW!***	5-WLCSP	1443.00/3,000		
FAN2560UC15XCT-ND	1.5V, 350mA Fast Transient Response LDO Regulator ***NEW!***	5-WLCSP	1.11	.93	.74
FAN2560UC15XTR-ND	1.5V, 350mA Fast Transient Response LDO Regulator ***NEW!***	5-WLCSP	1443.00/3,000		
KA278R51CTU-ND	2A, Output LDO Voltage Regulator	TO-220F-4	.75	.63	.50
LP2951CMXFSCT-ND	Adj., Micro Power Voltage Regulator	8-SOP	.48	.36	.27
LP2951CMXFSTR-ND	Adj., Micro Power Voltage Regulator	8-SOP	468.00/3,000		
RC1117DXCT-ND	1A, Adjustable LDO Linear Regulator	TO-252	1.17	.98	.78
RC1117DXTR-ND	1A, Adjustable LDO Linear Regulator	TO-252	1267.50/2,500		
RC1117M-ND	1A, Adjustable LDO Linear Regulator	TO-263	.80	.67	.54
RC1117M285-ND	2.85V, 1A, Fixed LDO Linear Regulator	TO-263	.96	.80	.64
RC1117S285TCT-ND	2.85V, 1A, Fixed LDO Linear Regulator	SOT-223	.62	.47	.36
RC1117S285TTR-ND	2.85V, 1A, Fixed LDO Linear Regulator	SOT-223	507.00/2,500		
RC1585M15-ND	1.5V, 5A, Fixed LDO Linear Regulator	TO-263	1.08	.90	.72
SCANPSC110FSC-ND	SCAN Bridge Hierarchical and Multidrop Addressable JT AG Port	28-SOIC	24.75	23.10	21.45

NM95HS HIGH SECURITY SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NM95HS01EM-ND	Rolling Code Generator High Temp (RC OSC)	14-SOIC	3.12	2.52	2.04
NM95HS01EM8-ND	Rolling Code Generator High Temp (RC OSC)	8-SOIC	4.29	3.47	2.81
NM95HS01N-ND	Rolling Code Generator (RC OSC)	8-Dip	3.90	3.15	2.55
NM95HS01N14-ND	Rolling Code Generator (RC OSC)	14-Dip	3.90	3.15	2.55
NM95HS02EN-ND	Rolling Code Generator High Temp (XTAL OSC)	8-Dip	4.29	3.47	2.81
NM95HS02N-ND	Rolling Code Generator (XTAL OSC)	8-Dip	3.90	3.15	2.55
NM95HS02N14-ND	Rolling Code Generator (XTAL OSC)	14-Dip	3.90	3.15	2.55

OP AMPS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LF347NFS-ND	4MHz, High Speed Quad JFet Op Amp	14-Dip	.68	.51	.39
LF351NFS-ND	Single JFet Op Amp*	8-Dip	.45	.36	.27
LF353NFS-ND	4MHz Dual JFet Op Amp	8-Dip	.55	.44	.33
LM324AMFS-ND	0°C-70°C Quad Op Amp	14-SOP	.44	.36	.25
LM324ANFS-ND	0°C-70°C Quad Op Amp	14-Dip	.46	.37	.26
LM324MFS-ND	0°C-70°C Quad Op Amp	14-SOP	.41	.34	.23
LM324NFS-ND	0°C-70°C Quad Op Amp	14-Dip	.42	.35	.24
LM358AMFS-ND	0°C-70°C Dual Op Amp	8-SOIC	.38	.31	.21
LM358ANFS-ND	0°C-70°C Dual Op Amp	8-Dip	.39	.32	.22
LM358MFS-ND	0°C-70°C Dual Op Amp	8-SOIC	.43	.34	.24
LM358MXFSCT-ND	0°C-70°C Dual Op Amp*	8-SOP	.43	.34	.24
LM358MXFSTR-ND	0°C-70°C Dual Op Amp*	8-SOP	291.00/3,000		
LM358NFS-ND	0°C-70°C Dual Op Amp	8-Dip	.43	.34	.24
LM741CNFS-ND	0°C-70°C Single Op Amp	8-Dip	.49	.40	.27
LM1458NFS-ND	Dual Op Amp	8-Dip	.55	.44	.33
LM2902NFS-ND	-40°C-85°C Quad Op Amp	14-Dip	.48	.39	.27
LM2904MFS-ND	Dual Op Amp	8-SOP	.40	.33	.22
LM2904NFS-ND	Dual Op Amp	8-Dip	.41	.34	.23

PFC/PWM CONTROLLERS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FAN2011MPXCT-ND	Adj., 1.5A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	1.25	1.00	.75
FAN2011MPXTR-ND	Adj., 1.5A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	1920.00/3,000		
FAN2012MPXCT-ND	Adj., 1.5A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	1.32	1.10	.88
FAN2012MPXTR-ND	Adj., 1.5A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	1716.00/3,000		
FAN2013MPXCT-ND	2A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	1.25	1.00	.75
FAN2013MPXTR-ND	2A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	1920.00/3,000		
FAN4800IMXCT-ND	Low Start Up Current PFC/PWM Controller	16-SOIC	3.78	3.03	2.36
FAN4800IMXTR-ND	Low Start Up Current PFC/PWM Controller	16-SOIC	2142.00/1,000		
FAN4803CP1-ND	PFC/PWM Controller, 67kHz Frequency	8-Dip	2.81	2.25	1.75
FAN4803CP2-ND	PFC/PWM Controller, 67/134kHz Frequency	8-Dip	2.81	2.25	1.75
FAN4803CS1XCT-ND	PFC/PWM Controller, 67kHz Frequency	8-SOIC	3.94	3.15	2.45
FAN4803CS1XTR-ND	PFC/PWM Controller, 67kHz Frequency	8-SOIC	5512.50/2,500		
FAN4803CS2XCT-ND	PFC/PWM Controller, 67/134kHz Frequency	8-SOIC	3.71	2.97	2.31
FAN4803CS2XTR-ND	PFC/PWM Controller, 67/134kHz Frequency	8-SOIC	5197.50/2,500		
FAN4810MXCT-ND	PFC Controller	16-SOIC	2.25	1.80	1.35
FAN4810MXTR-ND	PFC Controller	16-SOIC	2880.00/2,500		
FAN4810N-ND	PFC Controller	16-Dip	2.25	1.80	1.35
FAN4822IN-ND	ZVS Average Current PFC Controller	14-Dip	5.60	4.48	3.78
FAN5026MTCXCT-ND	Dual DDR/Dual Output PWM Controller	28-TSSOP	1.95	1.56	1.17
FAN5026MTCXTR-ND	Dual DDR/Dual Output PWM Controller	28-TSSOP	2496.00/2,500		
FAN5099MTCXCT-ND	Wide Frequency Sync. Buck PWM and LDO Controller	16-TSSOP	2.13	1.70	1.28
FAN5099MTCXTR-ND	Wide Frequency Sync. Buck PWM and LDO Controller	16-TSSOP	2720.00/2,500		
FAN5234QSCXCT-ND	Mobile Friendly PWM/PFM Controller	16-QSOP	1.40	1.12	.84
FAN5234QSCXTR-ND	Mobile Friendly PWM/PFM Controller	16-QSOP	1792.00/2,500		
FAN5236MTC-ND	Dual Mobile Friendly DDR/Dual Output PWM Controller	28-TSSOP	2.59	2.07	1.61
FAN5236MTCXCT-ND	Dual Mobile Friendly DDR/Dual Output PWM Controller	28-TSSOP	2.59	2.07	1.61
FAN5236MTCXTR-ND	Dual Mobile Friendly DDR/Dual Output PWM Controller	28-TSSOP	3622.50/2,500		
FAN5236QSCXCT-ND	Dual Mobile Friendly DDR/Dual Output PWM Controller	28-QSOP	2.28	1.82	1.37
FAN5236QSCXTR-ND	Dual Mobile Friendly DDR/Dual Output PWM Controller	28-QSOP	2912.00/2,500		
FAN6520AMXCT-ND	Single Sync. Buck PWM Controller	8-SOIC	.83	.69	.55
FAN6520AMXTR-ND	Single Sync. Buck PWM Controller	8-SOIC	893.75/2,500		
FAN7527BMXCT-ND	PFC Controller	8-SOP	.78	.65	.52
FAN7527BMXTR-ND	PFC Controller	8-SOP	845.00/2,500		
FAN7527BN-ND	PFC Controller	8-Dip	.78	.65	.52
FAN7528M-ND	Dual Out, Critical Conduction Mode PFC Controller	8-SOP	1.33	1.06	.80
FAN7528MXCT-ND	Dual Out, Critical Conduction Mode PFC Controller	8-SOP	.78	.65	.52
FAN7528MXTR-ND	Dual Out, Critical Conduction Mode PFC Controller	8-SOP	845.00/2,500		
FAN7529N-ND	Critical Conduction Mode PFC Controller	8-Dip	1.45	1.16	.87
FAN7530MXCT-ND	Critical Conduction Mode PFC Controller	8-SOP	1.33	1.06	.80
FAN7530MXTR-ND	Critical Conduction Mode PFC Controller	8-SOP	2035.20/3,000		
FAN7530N-ND	Critical Conduction Mode PFC Controller	8-Dip	1.33	1.06	.80
FAN7554-ND	Versatile PWM Controller	8-Dip	.96	.80	.64
FAN7554D-ND	Versatile PWM Controller	8-SOP	.78	.65	.52
FAN7554DTFCT-ND	Versatile PWM Controller	8-SOP	.78	.65	.52
FAN7554DTFTR-ND	Versatile PWM Controller	8-SOP	845.00/2,500		
FAN7601GXCT-ND	Green Current Mode PWM Controller	10-SSOP	1.44	1.08	.81
FAN7601GXTR-ND	Green Current Mode PWM Controller	10-SSOP	1404.00/3,000		
FAN7601MXCT-ND	Green Current Mode PWM Controller	8-SOP	1.44	1.08	.81
FAN7601MXTR-ND	Green Current Mode PWM Controller	8-SOP	1404.00/3,000		
FAN7601N-ND	Green Current Mode PWM Controller	8-Dip	1.44	1.08	.81
FAN7602BMXCT-ND	Green Current Mode PWM Controller	8-SOP	1.26	1.05	.84
FAN7602BMXTR-ND	Green Current Mode PWM Controller	8-SOP	1365.00/2,500		
FAN7602BN-ND	Green Current Mode PWM Controller	8-Dip	1.26	1.05	.84
FAN7602MXCT-ND	Green Current Mode PWM Controller	8-SOP	1.26	1.05	.84
FAN7602MXTR-ND	Green Current Mode PWM Controller	8-SOP	1365.00/2,500		
FAN7602N-ND	Green Current Mode PWM Controller	8-Dip	1.26	1.05	.84
FSDM0465REWDTU-ND	Green Mode Power Switch, Integrated PWM and SenseFET	TO-220F-6	2.00	1.60	1.20
FSDM0565RBWDTU-ND	Green Mode Power Switch, Integrated PWM and SenseFET	TO-220F-6	1.88	1.50	1.13
FSQ0170RNA-ND	Green Mode Power Switch, Integrated PWM and SenseFET	8-Dip	1.02	.85	.68
FSQ0270RNA-ND	Green Mode Power Switch, Integrated PWM and SenseFET	8-Dip	1.02	.85	.68
FSQ311-ND	Green Mode Power Switch, for Quasi-Resonant Operation	8-Dip	.96	.72	.54
FSQ0365RN-ND	Green Mode Power Switch, for Quasi-Resonant Operation	8-Dip	1.20	1.00	.80
FSQ0370RNA-ND	Green Mode Power Switch, Integrated PWM and SenseFET	8-Dip	1.26	1.05	.84
ML4800CP-ND	PFC/PWM Controller Combo	16-Dip	3.38	2.70	2.10
ML4800IP-ND	PFC/PWM Controller Combo	16-Dip	3.38	2.70	2.10
ML4821CP-ND	Power Factor Controller	18-Dip	5.63	4.50	3.50
ML4824CP1-ND	PFC/PWM Controller Combo	16-Dip	4.28	3.42	2.66
ML4824CP2-ND	PFC/PWM Controller Combo	16-Dip	7.31	5.85	4.55
ML4824IP1-ND	PFC/PWM Controller Combo	16-Dip	3.94	3.15	2.45
ML4826CP2-ND	PFC and Dual Output PWM Controller Combo	20-Dip	6.75	5.40	4.20
ML4841CP-ND	Variable Feedforward PFC/PWM Controller Combo	16-Dip	6.64	5.31	4.13

RF POWER AMP MODULES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
RMPA1959CT-ND	PCS 3.4V CDMA and CDMA2000-1X PowerEdge™ Power Amp Module	4.0x4.0x1.5mm LCC	2.45	1.96	1.47
RMPA1959TR-ND	PCS 3.4V CDMA and CDMA2000-1X PowerEdge™ Power Amp Module	4.0x4.0x1.5mm LCC	3136.00/2,500		

SMART POWER MODULES

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FCAS20DN60BB-ND	SPM™ for SRM, 600V-20A, 2-Phase Asymmetric Bridge ***NEW!***	SPM20-BC	14.69	13.23	11.74
FCAS30DN60BB-ND	SPM™ for SRM, 600V-30A, 2-Phase Asymmetric Bridge ***NEW!***	SPM20-BC	16.09	14.49	12.85
FCAS50SN60-ND	SPM™ for SRM, 600V-50A, 1-Phase Asymmetric Bridge	SPM27-DA	15.39	13.86	12.29
FPAB30BH60-ND	SPM™, 600V-30A, 1-Phase IGBT Inverter Bridge	SPM27-IA	15.47	14.44	13.41
FPAB30PH60-ND	SPM™, 600V-30A, 2-Phase IGBT Inverter Bridge	SPM27-GA	15.18	14.17	13.16
FPAB50PH60-ND	SPM™, 600V-50A, 2-Phase IGBT Inverter Bridge	SPM27-HA	19.19	17.91	16.63
FPDB20PH60-ND	SPM™, 600V-20A, 2-Phase IGBT Inverter Bridge	SPM27-GA	15.96	14.37	12.75
FPDB30PH60-ND	SPM™, 600V-30A, 2-Phase IGBT Inverter Bridge	SPM27-GA	16.50	15.40	14.30
FPDB50PH60-ND	SPM™, 600V-50A, 2-Phase IGBT Inverter Bridge	SPM27-HA	21.23	19.81	18.40
FSAB20PH60-ND	SPM™, 600V-20A, 1-Phase Rectifier Bridge Diode	SPM27-FA	10.29	9.27	8.22
FSAM10SH60A-ND	SPM™, 600V-10A, 3-Phase IGBT Inverter Bridge	SPM32-AA	18.20	16.99	15.78
FSAM15SH60A-ND	SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM32-AA	19.26	17.98	16.70
FSAM30SH60A-ND	SPM™ (Smart Power Module)	SPM32-AA	24.62	22.98	21.34
FSAM15SM60A-ND	SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM32-AA	17.76	16.58	15.40
FSAM20SH60A-ND	SPM™, 600V-20A, 3-Phase IGBT Inverter Bridge	SPM32-AA	21.40	19.98	18.55
FSAM20SL60-ND	SPM™, 600V-20A, 3-Phase IGBT Inverter Bridge	SPM32-AA	23.54	21.98	20.41
FSAM20SM60A-ND	SPM™, 600V-20A, 3-Phase IGBT Inverter Bridge	SPM32-AA	19.90	18.58	17.25
FSAM30SH60A-ND	SPM™, 600V-30A, 3-Phase IGBT Inverter Bridge	SPM32-AA	24.62	22.98	21.34
FSAM30SM60A-ND	SPM™, 600V-30A, 3-Phase IGBT Inverter Bridge	SPM32-AA	23.12	21.58	20.04
FSAM50SM60A-ND	SPM™, 600V-50A, 3-Phase IGBT Inverter Bridge	SPM32-CA	46.20	43.12	40.04
FSAM75SM60A-ND	SPM™, 600V-75A, 3-Phase IGBT Inverter Bridge	SPM32-CA	64.50	60.20	55.90
FSB50250SCT-ND	SPM™, 500V-2.0A, 3-Phase IGBT Inverter Bridge	SPM23-BA	6.60	5.28	4.46
FSB50250STR-ND	SPM™, 500V-2.0A, 3-Phase IGBT Inverter Bridge	SPM23-BA	1930.50/450		
FSB50325SCT-ND	SPM™, 250V-1.5A, 3-Phase IGBT Inverter Bridge	SPM23-BA	6.05	4.84	4.09
FSB50325STR-ND	SPM™, 250V-1.5A, 3-Phase IGBT Inverter Bridge	SPM23-BA	1769.85/450		
FSB50450SCT-ND	SPM™, 500V-3.0A, 3-Phase IGBT Inverter Bridge	SPM23-BA	7.15	5.72	4.83
FSB50450STR-ND	SPM™, 500V-3.0A, 3-Phase IGBT Inverter Bridge	SPM23-BA	2091.38/450		
FSB50450T-ND	SPM™, 500V-3.0A, 3-Phase FRFET Inverter	SPM23-AC	8.25	6.60	5.57
FSB50550T-ND	SPM™, 500V-3.5A, 3-Phase IGBT Inverter Bridge	SPM23-AC	7.70	6.16	5.20
FSBB15CH60-ND	SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM27-CA	15.39	13.86	12.29
FSBB15CH60BT-ND	Motion-SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM27-EC	17.53	16.37	15.20
FSBB20CH60-ND	SPM™, 600V-20A, 3-Phase IGBT Inverter Bridge	SPM27-CA	16.17	15.10	14.02
FSBB20CH60C-ND	SPM™, 600V-20A, 3-Phase IGBT Inverter Bridge ***NEW!***	SPM27-CC	17.43	16.27	15.11
FSBB20CH60F-ND	SPM™, 600V-20A, 3-Phase IGBT Inverter Bridge	SPM27-CA	17.12	15.98	14.84
FSBB30CH60-ND	SPM™, 600V-30A, 3-Phase IGBT Inverter Bridge	SPM27-EA	21.95	20.49	19.02
FSBB30CH60C-ND	SPM™, 600V-30A, 3-Phase IGBT Inverter Bridge ***NEW!***	SPM27-EC	22.05	20.58	19.11
FSBB30CH60F-ND	SPM™, 600V-30A, 3-Phase IGBT Inverter Bridge	SPM27-EA	22.70	21.19	19.67
FSBF10CH60B-ND	Motion-SPM™, 600V-10A, 3-Phase IGBT Inverter Bridge	SPM27-JA	13.59	12.24	10.86
FSBF10CH60BT-ND	Motion-SPM™, 600V-10A, 3-Phase IGBT Inverter Bridge	SPM27-JA	12.83	11.55	10.25

***** RoHS Compliant**

(Continued)

SMART POWER MODULES *(Continued)* *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
FSBF15CH60BT-ND	Motion-SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM27-JA	15.26	14.25	13.23
FSBF3CH60B-ND	Motion-SPM™, 600V-3A, 3-Phase IGBT Inverter Bridge	SPM27-JA	11.03	9.93	8.81
FSBF5CH60B-ND	Motion-SPM™, 600V-5A, 3-Phase IGBT Inverter Bridge	SPM27-JA	11.80	10.62	9.42
FSBS3CH60-ND	SPM™, 600V-3A, 3-Phase IGBT Inverter Bridge	SPM27-BA	10.26	9.24	8.20
FSBS5CH60-ND	SPM™, 600V-5A, 3-Phase IGBT Inverter Bridge	SPM27-BA	11.03	9.93	8.81
FSBS10CH60-ND	SPM™, 600V-10A, 3-Phase IGBT Inverter Bridge	SPM27-BA	12.77	11.51	10.20
FSBS15CH60-ND	SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM27-BA	15.33	13.80	12.24

SPECIALIZED ICs — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
100324QC-ND	Low Power Hex TTL-to-ECL Translator	28-PLCC	5.70	4.56	3.85
100325QC-ND	Low Power Hex ECL-to-TTL Translator	28-PLCC	5.70	4.56	3.85
FSHDMI04MTDX-ND	Wide Bandwidth Differential Signaling HDMI Switch	48-TSSOP	2.23	1.78	1.34
FSHDMI08MTDXCT-ND	Wide Bandwidth HDMI Switch DDC/CEC	56-TSSOP	2.52	2.02	1.57
FSHDMI08MTDXTR-ND	Wide Bandwidth HDMI Switch DDC/CEC	56-TSSOP	1568.00/1,000		
FSTD3306L8XCT-ND	2-Bit Low Power Bus Switch	8-MicroPak	1.20	1.00	.80
FSTD3306L8XTR-ND	2-Bit Low Power Bus Switch	8-MicroPak	2550.00/5,000		
FXL2T245L10XCT-ND	Low Voltage Dual Supply 2-Bit Signal Translator	10-MicroPak	1.14	.95	.76
FXL2T245L10XTR-ND	Low Voltage Dual Supply 2-Bit Signal Translator	10-MicroPak	2422.50/5,000		
FXL4T245BQXCT-ND	Low Voltage Dual Supply 4-Bit Signal Translator	14-DQFN	1.23	1.03	.82
FXL4T245BQXTR-ND	Low Voltage Dual Supply 4-Bit Signal Translator	14-DQFN	1599.00/3,000		
FXL5T244BQXCT-ND	Low Voltage Dual Supply 5-Bit Signal Translator	14-DQFN	1.23	1.03	.82
FXL5T244BQXTR-ND	Low Voltage Dual Supply 5-Bit Signal Translator	14-DQFN	1599.00/3,000		
FXLP34L6XCT-ND	Single Bit Unidirectional Translator	6-MicroPak	.84	.63	.48
FXLP34L6XTR-ND	Single Bit Unidirectional Translator	6-MicroPak	1338.75/5,000		
FXLP34P5XCT-ND	Single Bit Unidirectional Translator	SC70-5	.84	.63	.48
FXLP34P5XTR-ND	Single Bit Unidirectional Translator	SC70-5	819.00/3,000		
ML4425CSXCT-ND	Sensorless BLDC Motor Controller	28-SOIC	8.75	7.88	6.99
ML4425CSXTR-ND	Sensorless BLDC Motor Controller	28-SOIC	6483.75/1,000		
ML6428CS2XCT-ND	S-Video Filter and 75-Ohm Line Drivers with Summed Composite Output	8-SOIC	4.01	3.21	2.50
ML6428CS2XTR-ND	S-Video Filter and 75-Ohm Line Drivers with Summed Composite Output	8-SOIC	5607.00/2,500		
USB1T11AMTCXCT-ND	Universal Serial Bus Transceiver	14-TSSOP	.75	.63	.50
USB1T11AMTCXTR-ND	Universal Serial Bus Transceiver	14-TSSOP	812.50/2,500		
USB1T11AMXCT-ND	Universal Serial Bus Transceiver	14-SOIC	.75	.63	.50
USB1T11AMXTR-ND	Universal Serial Bus Transceiver	14-SOIC	812.50/2,500		
USB1T1103MHXCT-ND	USB Peripheral Transceiver with Voltage Regulator	16-MLP	1.08	.90	.72
USB1T1103MHXTR-ND	USB Peripheral Transceiver with Voltage Regulator	16-MLP	1404.00/3,000		

TinyLogic®

HS Series

Surface Mount Product

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NC7S00M5XCT-ND	Single 2-Input NAND Gate	SOT-23-5	.28	.21	.15
NC7S00M5XTR-ND	Single 2-Input NAND Gate	SOT-23-5	168.00/3,000		
NC7S00P5XCT-ND	2-Input NAND Gate	SC70-5	.26	.20	.14
NC7S00P5XTR-ND	2-Input NAND Gate	SC70-5	156.00/3,000		
NC7S02M5XCT-ND	Single 2-Input NOR Gate	SOT-23-5	.28	.21	.15
NC7S02M5XTR-ND	Single 2-Input NOR Gate	SOT-23-5	168.00/3,000		
NC7S04M5XCT-ND	Single Inverter	SOT-23-5	.27	.20	.14
NC7S04M5XTR-ND	Single Inverter	SOT-23-5	159.00/3,000		
NC7S04P5XCT-ND	TinyLogic® HS Inverter*	SC70-5	.26	.20	.14
NC7S04P5XTR-ND	TinyLogic® HS Inverter*	SC70-5	156.00/3,000		
NC7S08P5XCT-ND	TinyLogic® HS 2-Input AND Gate*	SC70-5	.26	.20	.14
NC7S08P5XTR-ND	TinyLogic® HS 2-Input AND Gate*	SC70-5	156.00/3,000		
NC7S08M5XCT-ND	Single 2-Input AND Gate	SOT-23-5	.28	.21	.15
NC7S08M5XTR-ND	Single 2-Input AND Gate	SOT-23-5	168.00/3,000		
NC7S14M5XCT-ND	Schmitt Trigger Input Inverter	SOT-23-5	.28	.21	.15
NC7S14M5XTR-ND	Schmitt Trigger Input Inverter	SOT-23-5	168.00/3,000		
NC7S14P5XCT-ND	TinyLogic® HS Inverter*	SC70-5	.26	.20	.14
NC7S14P5XTR-ND	TinyLogic® HS Inverter*	SC70-5	156.00/3,000		
NC7S32M5XCT-ND	Single 2-Input OR Gate	SOT-23-5	.28	.21	.15
NC7S32M5XTR-ND	Single 2-Input OR Gate	SOT-23-5	168.00/3,000		
NC7S86M5XCT-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.28	.21	.15
NC7S86M5XTR-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	168.00/3,000		
NC7SB3157P6XCT-ND	SPDT Analog Switch or 2:1 Mux/Demux Bus Switch*	SC70-6	.37	.30	.21
NC7SB3157P6XTR-ND	SPDT Analog Switch or 2:1 Mux/Demux Bus Switch*	SC70-6	290.70/3,000		
NC7ST08M5XCT-ND	TinyLogic® HST 2-Input AND Gate*	SOT-23-5	.28	.21	.15
NC7ST08M5XTR-ND	TinyLogic® HST 2-Input AND Gate*	SOT-23-5	168.00/3,000		
NC7ST08P5XCT-ND	TinyLogic® HST 2-Input AND Gate*	SC70-5	.26	.20	.14
NC7ST08P5XTR-ND	TinyLogic® HST 2-Input AND Gate*	SC70-5	156.00/3,000		
NC7SU04M5XCT-ND	TinyLogic® HS Unbuffered Inverter*	SOT-23-5	.28	.21	.15
NC7SU04M5XTR-ND	TinyLogic® HS Unbuffered Inverter*	SOT-23-5	168.00/3,000		

UHS Series

Surface Mount Product

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NC7NZ14K8XCT-ND	TinyLogic® UHS Inverter*	US8	.49	.40	.27
NC7NZ14K8XTR-ND	TinyLogic® UHS Inverter*	US8	382.50/3,000		
NC7NZ17K8XCT-ND	TinyLogic® UHS Triple Buffer*	US8	.49	.40	.27
NC7NZ17K8XTR-ND	TinyLogic® UHS Triple Buffer*	US8	382.50/3,000		
NC7NZ34K8XCT-ND	TinyLogic® UHS Triple Buffer*	US8	.49	.40	.27
NC7NZ34K8XTR-ND	TinyLogic® UHS Triple Buffer*	US8	382.50/3,000		
NC7SB3257P6XCT-ND	2:1 Multiplexer/Demultiplexer Bus Switch*	SC70-6	.43	.34	.26
NC7SB3257P6XTR-ND	2:1 Multiplexer/Demultiplexer Bus Switch*	SC70-6	344.25/3,000		
NC7SP17P5XCT-ND	TinyLogic® ULP Single Buffer*	SC70-5	.40	.32	.22
NC7SP17P5XTR-ND	TinyLogic® ULP Single Buffer*	SC70-5	270.00/3,000		
NC7SV04P5XCT-ND	TinyLogic® ULP-A Inverter*	SC70-5	.32	.24	.17
NC7SV04P5XTR-ND	TinyLogic® ULP-A Inverter*	SC70-5	192.00/3,000		
NC7SZ00M5XCT-ND	Single 2-Input NAND Gate	SOT-23-5	.28	.21	.15
NC7SZ00M5XTR-ND	Single 2-Input NAND Gate	SOT-23-5	168.00/3,000		
NC7SZ00P5XCT-ND	2-Input NAND Gate	SC70-5	.26	.20	.14

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NC7SZ00P5XTR-ND	2-Input NAND Gate	SC70-5	156.00/3,000		
NC7SZ02M5XCT-ND	Single 2-Input NOR Gate	SOT-23-5	.28	.21	.15
NC7SZ02M5XTR-ND	Single 2-Input NOR Gate	SOT-23-5	168.00/3,000		
NC7SZ02P5XCT-ND	TinyLogic® UHS 2-Input NOR Gate*	SC70-5	.26	.20	.14
NC7SZ02P5XTR-ND	TinyLogic® UHS 2-Input NOR Gate*	SC70-5	156.00/3,000		
NC7SZ04M5XCT-ND	Single Inverter	SOT-23-5	.27	.20	.14
NC7SZ04M5XTR-ND	Single Inverter	SOT-23-5	159.00/3,000		
NC7SZ04P5XCT-ND	TinyLogic® UHS Inverter*	SC70-5	.26	.20	.14
NC7SZ04P5XTR-ND	TinyLogic® UHS Inverter*	SC70-5	156.00/3,000		
NC7SZ05M5XCT-ND	Single Inverter Open Drain	SOT-23-5	.28	.21	.15
NC7SZ05M5XTR-ND	Single Inverter Open Drain	SOT-23-5	168.00/3,000		
NC7SZ08M5XCT-ND	Single 2-Input AND Gate	SOT-23-5	.28	.21	.15
NC7SZ08M5XTR-ND	Single 2-Input AND Gate	SOT-23-5	168.00/3,000		
NC7SZ08P5XCT-ND	2-Input AND Gate	SC70-5	.25	.19	.13
NC7SZ08P5XTR-ND	2-Input AND Gate	SC70-5	150.00/3,000		
NC7SZ11P6XCT-ND	TinyLogic® UHS 3-Input AND Gate*	SC70-6	.38	.29	.20
NC7SZ11P6XTR-ND	TinyLogic® UHS 3-Input AND Gate*	SC70-6	228.00/3,000		
NC7SZ14M5XCT-ND	Schmitt Trigger Input Inverter	SOT-23-5	.28	.21	.15
NC7SZ14M5XTR-ND	Schmitt Trigger Input Inverter	SOT-23-5	168.00/3,000		
NC7SZ14P5XCT-ND	TinyLogic® UHS Inverter*	SC70-5	.26	.20	.14
NC7SZ14P5XTR-ND	TinyLogic® UHS Inverter*	SC70-5	156.00/3,000		
NC7SZ32M5XCT-ND	Single 2-Input OR Gate	SOT-23-5	.28	.21	.15
NC7SZ32M5XTR-ND	Single 2-Input OR Gate	SOT-23-5	168.00/3,000		
NC7SZ32P5XCT-ND	TinyLogic® UHS 2-Input OR Gate*	SC70-5	.26	.20	.14
NC7SZ32P5XTR-ND	TinyLogic® UHS 2-Input OR Gate*	SC70-5	156.00/3,000		
NC7SZ38M5XCT-ND	Single 2-Input NAND Gate (Open Drain Output)	SOT-23-5	.31	.24	.17
NC7SZ57P6XCT-ND	TinyLogic® UHS Univ. Config. 2-Input Logic Gates*	SC70-6	.38	.29	.20
NC7SZ57P6XTR-ND	TinyLogic® UHS Univ. Config. 2-Input Logic Gates*	SC70-6	228.00/3,000		
NC7SZ66M5XCT-ND	Low Voltage Single SPST Bus Switch	SOT-23-5	.40	.32	.22
NC7SZ66M5XTR-ND	Low Voltage Single SPST Bus Switch	SOT-23-5	270.00/3,000		
NC7SZ66P5XCT-ND	Low Voltage Single SPST Normally Open Bus Switch*	SC70-5	.40	.32	.22
NC7SZ66P5XTR-ND	Low Voltage Single SPST Normally Open Bus Switch*	SC70-5	270.00/3,000		
NC7SZ74K8XCT-ND	TinyLogic® UHS D-Type Flip-Flop with Preset Clear*	US8	.46	.37	.26
NC7SZ74K8XTR-ND	TinyLogic® UHS D-Type Flip-Flop with Preset Clear*	US8	357.00/3,000		
NC7SZ86M5XCT-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.28	.21	.15
NC7SZ86M5XTR-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	168.00/3,000		
NC7SZ86P5XCT-ND	TinyLogic® UHS 2-Input Exclusive OR Gate*	SC70-5	.26	.20	.14
NC7SZ86P5XTR-ND	TinyLogic® UHS 2-Input Exclusive OR Gate*	SC70-5	156.00/3,000		
NC7SZ125M5XCT-ND	Single Tri-State Buffer OE=Low	SOT-23-5	.28	.21	.15
NC7SZ125M5XTR-ND	Single Tri-State Buffer OE=Low	SOT-23-5	168.00/3,000		
NC7SZ125P5XCT-ND	Tri-State Buffer	SC70-5	.26	.20	.14
NC7SZ125P5XTR-ND	Tri-State Buffer	SC70-5	156.00/3,000		
NC7SZ126M5XCT-ND	Single Tri-State Buffer OE=High	SOT-23-5	.28	.21	.15
NC7SZ126M5XTR-ND	Single Tri-State Buffer OE=High	SOT-23-5	168.00/3,000		
NC7SZ126P5XCT-ND	Tri-State Buffer	SC70-5	.26	.20	.14
NC7SZ126P5XTR-ND	Tri-State Buffer	SC70-5	156.00/3,000		
NC7SZ157P6XCT-ND	TinyLogic® UHS 2-Input Non-Inverting Mux*	SC70-6	.38	.29	.20
NC7SZ157P6XTR-ND	TinyLogic® UHS 2-Input Non-Inverting Mux*	SC70-6	228.00/3,000		
NC7SZ175P6XCT-ND	D-Type Flip-Flop with Async. Clear	SC70-6	.38	.29	.20
NC7SZ175P6XTR-ND	D-Type Flip-Flop with Async. Clear	SC70-6	228.00/3,000		
NC7SZ374P6XCT-ND	Tri-State TinyLogic® UHS D-Type Flip-Flop*	SC70-6	.38	.29	.20
NC7SZ374P6XTR-ND	Tri-State TinyLogic® UHS D-Type Flip-Flop*	SC70-6	228.00/3,000		
NC7SZ384M5XCT-ND	1-Bit Low Power Bus Switch	SOT-23-5	.40	.32	.24
NC7SZ384M5XTR-ND	1-Bit Low Power Bus Switch	SOT-23-5	324.00/3,000		
NC7SZU04M5XCT-ND	TinyLogic® UHS Unbuffered Inverter*	SOT-23-5	.28	.21	.15
NC7SZU04M5XTR-ND	TinyLogic® UHS Unbuffered Inverter*	SOT-23-5	168.00/3,000		
NC7WB66K8XCT-ND	Low Voltage Dual SPST Normally Open Analog Switch*	US8	.60	.48	.36
NC7WB66K8XTR-ND	Low Voltage Dual SPST Normally Open Analog Switch*	US8	468.00/3,000		
NC7WZ02K8XCT-ND	TinyLogic® UHS Dual 2-Input NOR Gate*	US8	.49	.40	.27
NC7WZ02K8XTR-ND	TinyLogic® UHS Dual 2-Input NOR Gate*	US8	382.50/3,000		
NC7WZ04P6XCT-ND	TinyLogic® UHS Dual Inverter*	SC70-6	.38	.29	.20
NC7WZ04P6XTR-ND	TinyLogic® UHS Dual Inverter*	SC70-6	228.00/3,000		
NC7WZ07P6XCT-ND	TinyLogic® UHS Dual Buffer, OD Outputs*	SC70-6	.38	.29	.20
NC7WZ07P6XTR-ND	TinyLogic® UHS Dual Buffer, OD Outputs*	SC70-6	228.00/3,000		
NC7WZ08K8XCT-ND	TinyLogic® UHS Dual 2-Input AND Gate*	US8	.47	.39	.27
NC7WZ08K8XTR-ND	TinyLogic® UHS Dual 2-Input AND Gate*	US8	372.30/3,000		
NC7WZ14P6XCT-ND	TinyLogic® UHS Dual Inverter*	SC70-6	.38	.29	.20
NC7WZ14P6XTR-ND	TinyLogic® UHS Dual Inverter*	SC70-6	228.00/3,000		
NC7WZ16P6XCT-ND	Dual Buffer	SC70-6	.38	.29	.20
NC7WZ16P6XTR-ND	Dual Buffer	SC70-6	228.00/3,000		
NC7WZ17P6XCT-ND	TinyLogic® UHS Dual Buffer*	SC70-6	.38	.29	.20
NC7WZ17P6XTR-ND	TinyLogic® UHS Dual Buffer*	SC70-6	228.00/3,000		
NC7WZ32K8XCT-ND	TinyLogic® UHS Dual 2-Input OR Gate*	US8	.49	.40	.27
NC7WZ32K8XTR-ND	TinyLogic® UHS Dual 2-Input OR Gate*	US8	382.50/3,000		
NC7WZ125K8XCT-ND	Tri-State TinyLogic® UHS Dual Buffer*	US8	.49	.40	.27
NC7WZ125K8XTR-ND	Tri-State TinyLogic® UHS Dual Buffer*	US8	382.50/3,000		
NC7WZ132K8XCT-ND	TinyLogic® UHS Dual 2-Input NAND Gate*	US8	.49	.40	.27
NC7WZ132K8XTR-ND	TinyLogic® UHS Dual 2-Input NAND Gate*	US8	382.50/3,000		
NC7WZ241K8XCT-ND	Tri-State TinyLogic® UHS Dual Buffer*	US8	.49	.40	.27
NC7WZ241K8XTR-ND	Tri-State TinyLogic® UHS Dual Buffer*	US8	382.50/3,000		
NC7WZU04P6XCT-ND	TinyLogic® UHS Dual Unbuffered Inverter*	SC70-6	.36	.27	.19
NC7WZU04P6XTR-ND	TinyLogic® UHS Dual Unbuffered Inverter*	SC70-6	216.00/3,000		

ULP Series — RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NC7NP14L8XCT-ND	TinyLogic® ULP Triple Inverter	8-MicroPak	.50	.40	.30
NC7NP14L8XTR-ND	TinyLogic® ULP Triple Inverter	8-MicroPak	650.00/5,000		
NC7SPU04P5XCT-ND	TinyLogic® ULP Unbuffered Inverter	SC70-5	.34	.27	.19
NC7SPU04P5XTR-ND	TinyLogic® ULP Unbuffered Inverter	SC70-5	228.00/3,000		

SOTiny™

Surface Mount Product

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI3A3160CZGEXCT-ND	3V, SOTiny™ 0.8-Ohm Dual SPDT Analog Switch*	12-TDFN	1.06	.94	.85
PI3A3160CZGEXTR-ND	3V, SOTiny™ 0.8-Ohm Dual SPDT Analog Switch*	12-TDFN	2513.00/3,500		
PI5A3157CEXCT-ND	SOTiny™ Low Voltage Dual SPDT Analog Switch*	SC70-6	.67	.59	.54
PI5A3157CEXTR-ND	SOTiny™ Low Voltage Dual SPDT Analog Switch*	SC70-6	1356.00/3,000		
PI5A3157ZAEXCT-ND	SOTiny™ Low Voltage SPDT Analog Switch*	6-TDFN	.41	.37	.33
PI5A3157ZAEXTR-ND	SOTiny™ Low Voltage SPDT Analog Switch*	6-TDFN	976.50/3,500		
PI5A3158ZAEXCT-ND	SOTiny™ Low Voltage Dual SPDT Analog Switch*	12-TDFN	.74	.66	.60
PI5A3158ZAEXTR-ND	SOTiny™ Low Voltage Dual SPDT Analog Switch*	12-TDFN	1767.50/3,500		
PI5C3301TEXCT-ND	SOTiny™ Single Bit Bus Switch*	SOT-23-5	.78	.70	.63
PI5C3301TEXTR-ND	SOTiny™ Single Bit Bus Switch*	SOT-23-5	1596.00/3,000		

*** RoHS Compliant**

(Continued)

PERICOM Semiconductor Corporation — SOTiny™ *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI5C3303TEXCT-ND	SOTiny™ 2:1 Mux/Demux Bus Switch*	SOT-23-6	.98	.87	.79
PI5C3303TEXTR-ND	SOTiny™ 2:1 Mux/Demux Bus Switch*	SOT-23-6	1995.00/3,000		
PI74STX1G08CXCT-ND	Single 2-Input AND Gate	SC70-5	.57	.43	.34
PI74STX1G08CEXCT-ND	Single 2-Input AND Gate*	SC70-5	.57	.43	.34
PI74STX1G08CEXTR-ND	Single 2-Input AND Gate*	SC70-5	759.00/3,000		
PI74STX1G79CXCT-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	.38	.29	.23
PI74STX1G86CXCT-ND	Single 2-Input XOR Gate	SC70-5	.38	.29	.23
PI74STX1G125CXCT-ND	Buffer with Tri-State Output	SC70-5	.54	.41	.32
PI74STX1G126CXCT-ND	Buffer with Tri-State Output	SC70-5	.54	.41	.32
PI74STX1G126CEXCT-ND	Buffer with Tri-State Output*	SC70-5	.54	.41	.32
PI90LV01TEXCT-ND	SOTiny™ LVDS High Speed Differential Line Driver*	SOT-23-5	1.27	1.13	1.02
PI90LV01TEXTR-ND	SOTiny™ LVDS High Speed Differential Line Driver*	SOT-23-5	2595.00/3,000		

PERICOM Semiconductor Corporation — DOUBLE DENSITY 2.5 VOLT ALVTC LOGIC WITH TOLERANT I/O AND BUS HOLD

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74ALVTC16241A-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.90	2.28	1.82

PERICOM Semiconductor Corporation — DOUBLE DENSITY VCX LOGIC WITH TOLERANT I/O AND BUS HOLD

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74VCX16245A-ND	16-Bit Bidirectional Transceiver	48-TSSOP	3.34	2.63	2.09

PERICOM Semiconductor Corporation — LAN / ANALOG SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI2LVD412ZHE-ND	1.8V, LVDS, 4-Channel Diff., 2:1 Mux/Demux Switch*	42-TQFN	4.89	4.32	3.92
PI2PCIE412-CZHE-ND	4-Channel Diff. 2:1 Mux/Demux PCI-Express Switch*	42-TQFN	4.31	3.81	3.45
PI2PCIE412-CZHEXCT-ND	4-Channel Diff. 2:1 Mux/Demux PCI-Express Switch*	42-TQFN	4.39	3.87	3.51
PI2PCIE412-CZHEXTR-ND	4-Channel Diff. 2:1 Mux/Demux PCI-Express Switch*	42-TQFN	10426.50/3,500		
PI3A212SZLEXCT-ND	Dual SPDT Audio Clickless Analog Switch*	10-TQFN	.94	.84	.76
PI3A212SZLEXTR-ND	Dual SPDT Audio Clickless Analog Switch*	10-TQFN	2233.00/3,500		
PI3A212ZLEXCT-ND	Dual SPDT Analog Switch*	10-TQFN	.78	.70	.63
PI3A212ZLEXTR-ND	Dual SPDT Analog Switch*	10-TQFN	1862.00/3,500		
PI3HDMI412-BAE-ND	4-Channel Diff., 2:1 Mux/Demux, DVI/HDMI Switch*	48-TSSOP	3.92	3.46	3.14
PI3HDMI412FTBE-ND	4-Channel Diff., 2:1 Mux/Demux, DVI/HDMI Switch*	48-BQSOP	3.92	3.46	3.14
PI3L110QE-ND	3.3V Quad, 2:1 Mux/Demux Fast Ethernet LAN Switch with Single Enable*	16-QSOP	2.87	2.54	2.30
PI3L301DAE-ND	3.3V, 16-Bit to 8-Bit Mux/Demux*	48-TSSOP	3.19	2.82	2.56
PI3L500ZFE-ND	3.3V, 8-Channel, 2:1 Mux/Demux Gigabit Ethernet LAN Switch with Single Enable*	56-TQFN	3.28	2.90	2.63
PI3USB10MZKEXCT-ND	3.3V, Wide Bandwidth, 2-Channel, 2:1 Mux/Demux USB 2.0 Switch with Single Enable*	12-TQFN	.88	.78	.71
PI3USB10MZKEXTR-ND	3.3V, Wide Bandwidth, 2-Channel, 2:1 Mux/Demux USB 2.0 Switch with Single Enable*	12-TQFN	2096.50/3,500		
PI5A100WE-ND	Quad SPDT Analog Switch*	16-SOIC	2.75	2.43	2.20
PI5A4213GAEXCT-ND	Low Voltage Dual SP3T Analog Switch*	12-CSP	1.18	1.04	.95
PI5A4213GAEXTR-ND	Low Voltage Dual SP3T Analog Switch*	12-CSP	2394.00/3,000		
PI5A4684GAEXCT-ND	Dual SPDT Analog Switch*	10-CSP	1.06	.94	.85
PI5A4684GAEXTR-ND	Dual SPDT Analog Switch*	10-CSP	2154.00/3,000		
PI5A4764GAEXCT-ND	Dual SPDT Audio Clickless Analog Switch*	10-CSP	1.16	1.03	.93
PI5A4764GAEXTR-ND	Dual SPDT Audio Clickless Analog Switch*	10-CSP	2355.00/3,000		
PI5L200QE-ND	Quad SPDT LAN Switch*	16-QSOP	2.75	2.43	1.98
PI5V330W-ND	Quad 2:1 Multiplexer/Demultiplexer	16-SOIC	2.24	1.92	1.76
PI5V330WE-ND	Quad 2:1 Multiplexer/Demultiplexer*	16-SOIC	2.50	2.21	2.00
PS301CSA-ND	SPST, 17V Analog Switch	8-SOIC	1.19	1.02	.92
PS302CSA-ND	SPST, 17V Analog Switch	8-SOIC	1.01	.87	.79
PS323ESAE-ND	Dual SPST, 17V N.O. Analog Switch*	8-SOIC	1.17	1.03	.94
PS391ESE-ND	Quad SPST, 17V N.C. Analog Switch	16-SOIC	2.43	2.15	1.95
PS391ESEE-ND	Quad SPST, 17V N.C. Analog Switch*	16-SOIC	2.43	2.15	1.95
PS392ESEE-ND	Quad SPST, 17V N.O. Analog Switch*	16-SOIC	2.48	2.13	1.91
PS393ESEE-ND	Quad SPST, 17V (2)N.O., (2)N.C. Analog Switch*	16-SOIC	2.48	2.13	1.91

PERICOM Semiconductor Corporation — LVDS DATA TRANSMISSION

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI90LV027AWE-ND	Dual LVDS Line Driver*	8-SOIC	2.63	2.25	2.01
PI90LV028AWE-ND	Dual LVDS Line Receiver*	8-SOIC	2.50	2.21	2.00
PI90LV031AW-ND	Quad LVDS Line Driver	16-SOIC	3.73	3.20	2.86
PI90LV031AWE-ND	Quad LVDS Line Driver*	16-SOIC	4.17	3.68	3.34
PI90LV032AWE-ND	Quad LVDS Line Receiver*	16-SOIC	4.17	3.68	3.34
PI90LV047AL-ND	3V, Quad LVDS Differential Line Driver	16-TSSOP	2.74	2.50	2.28
PI90LV047ALE-ND	3V, Quad LVDS Differential Line Driver*	16-TSSOP	3.33	2.95	2.67
PI90LV048AL-ND	3V, Quad LVDS Differential Line Receiver	16-TSSOP	2.74	2.50	2.28
PI90LV048ALE-ND	3V, Quad LVDS Differential Line Receiver*	16-TSSOP	3.33	2.95	2.67
PI90LV179WE-ND	Single LVDS Transceiver*	8-SOIC	2.92	2.58	2.34

PERICOM Semiconductor Corporation — 74AVC 2.5VOLT BUS DRIVERS AND FLIP-FLOPS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74AVC+16244AE-ND	Tri-State, 16-Bit Buffer/Driver*	48-TSSOP	3.33	2.95	2.67
PI74AVC+16836A-ND	Tri-State, 20-Bit Universal Bus Driver	56-TSSOP	2.38	2.18	1.99
PI74AVC+16836AE-ND	Tri-State, 20-Bit Universal Bus Driver*	56-TSSOP	2.80	2.56	2.33
PI74AVC164245AE-ND	Tri-State, 3.3V to 1.8V, 16-Bit Level Shifter*	48-TSSOP	4.00	3.53	3.20
PI74AVC164245LAAE-ND	Tri-State, 3.3V to 1.5V, 16-Bit Level Shifter*	48-TSSOP	4.75	4.20	3.80
PI74AVC16834A-ND	Tri-State, 18-Bit Universal Bus Driver	56-TSSOP	2.98	2.39	1.99
PI74AVC16835A-ND	Tri-State, 18-Bit Universal Bus Driver	56-TSSOP	2.98	2.39	1.99

PERICOM Semiconductor Corporation — 74FCT – STANDARD 5 VOLT FCT WITH 25 OHM SERIES OUTPUT RESISTOR

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74FCT2241ATQ-ND	Inverting Octal Buffer/Line Driver	20-QSOP	.74	.68	.62
PI74FCT2374ATQ-ND	Octal D-Type Register	20-QSOP	.74	.68	.62

PERICOM Semiconductor Corporation — 74LPT – STANDARD 3.3 VOLT LOGIC WITH 5 VOLT TOLERANT I/O

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74LPT244AQE-ND	Octal Buffer/Line Driver*	20-QSOP	.92	.85	.83

PERICOM Semiconductor Corporation — 74LPT – DOUBLE DENSITY 3.3 VOLT LOGIC WITH 5 VOLT TOLERANT I/O — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI74LPT16244AAE-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.75	1.55	1.40
PI74LPT16245AAE-ND	16-Bit Bidirectional Transceiver	48-TSSOP	1.75	1.55	1.40
PI74LPT16374AAE-ND	16-Bit Octal Register	48-TSSOP	1.75	1.55	1.40

PERICOM Semiconductor Corporation — 3.3 VOLT BUS SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI3B32X245BE-ND	Hot Insertion 16-Bit, 2-Port Bus Switch*	40-BQSOP	2.99	2.64	2.39
PI3B32X384BE-ND	20-Bit, 2-Port *NanoSwitch*™*	48-BQSOP	2.78	2.46	2.23
PI3B33X257BE-ND	12-24 Multiplexer/Demultiplexer Bus Switch*	48-BQSOP	3.45	3.05	2.76
PI3B3245QE-ND	Hot Insertion 8-Bit, 2-Port, *NanoSwitch*™*	20-QSOP	1.55	1.37	1.24
PI3B3251QE-ND	8-1 Mux/Demux Hot Insertion Bus Switch*	16-QSOP	1.39	1.22	1.12
PI3B3253QE-ND	Dual 4:1 Mux/Demux *NanoSwitch*™*	16-QSOP	1.65	1.46	1.32
PI3B3257Q-ND	Quad 2:1 Mux/Demux Hot Insertion Bus Switch	16-QSOP	1.40	1.24	1.12
PI3B3257QE-ND	Quad 2:1 Mux/Demux Hot Insertion Bus Switch*	16-QSOP	1.40	1.24	1.12
PI3B16211A-ND	24-Bit Bus Switch	56-TSSOP	2.40	2.19	2.01
PI3B16233A-ND	16-Bit to 32-Bit FET Mux/Demux Bus Switch	56-TSSOP	2.92	2.58	2.34
PI3B16245AE-ND	Hot Insertion, 16-Bit, 2-Port Bus Switch*	48-BQSOP	2.92	2.58	2.34
PI3C3125LE-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch with Individual Enables*	14-TSSOP	1.29	1.14	1.04
PI3C3125QE-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch with Individual Enables*	16-QSOP	1.22	1.08	.98
PI3C3125WE-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch with Individual Enables*	14-SOIC	1.22	1.08	.98
PI3C3126LE-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch with Individual Enables*	14-TSSOP	1.29	1.14	1.04
PI3C3126QE-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch with Individual Enables*	16-QSOP	1.03	.92	.83
PI3C3126WE-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch with Individual Enables*	14-SOIC	1.22	1.08	.98
PI3C3245QE-ND	Hot Insertion, 8-Bit, 2-Port Bus Switch*	20-QSOP	1.10	.98	.88
PI3C3384QE-ND	3.3V High Bandwidth, Hot Insertion, 10-Bit, 2-Port Bus Switch*	24-QSOP	1.10	.98	.88
PI3C3861Q-ND	3.3V High Bandwidth, Hot Insertion, 10-Bit, 2-Port Bus Switch	24-QSOP	1.16	.91	.74
PI3CH281QE-ND	Low Voltage, High Bandwidth, 2-Channel, 4:1 Mux/Demux *NanoSwitch*™, with Single Enable*	16-QSOP	1.22	1.08	.98
PI3CH400QE-ND	Low Voltage, 5-Ohm, 4-Channel, 2-Port *NanoSwitch*™*	16-QSOP	1.33	1.18	1.07
PI3CH800QE-ND	Low Voltage, 5-Ohm, 8-Channel, 2-Port *NanoSwitch*™*	20-QSOP	1.22	1.08	.98
PI3CH1000QE-ND	Low Voltage, 5-Ohm, 10-Channel, 2-Port *NanoSwitch*™*	24-QSOP	1.49	1.32	1.20

PERICOM Semiconductor Corporation — LOW VOLTAGE TRANSLATOR BUS SWITCH

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI3VT34X245B-ND	32-Bit, Low Voltage Level Shifting Switch	80-BQSOP	3.43	3.14	2.86
PI3VT34X245BE-ND	32-Bit, Low Voltage Level Shifting Switch*	80-BQSOP	4.17	3.68	3.34
PI3VT3245L-ND	8-Bit, Low Voltage Level Shifting Switch	20-TSSOP	1.07	.98	.90
PI3VT3245LE-ND	8-Bit, Low Voltage Level Shifting Switch*	20-TSSOP	1.30	1.15	1.04
PI3VT3306LE-ND	2-Bit, 2-Port, Low Voltage Translator Bus Switch*	8-TSSOP	1.10	.98	.88
PI3VT3861L-ND	10-Bit, 2-Port, Low Voltage Translator Bus Switch	24-TSSOP	1.51	1.29	1.15

PERICOM Semiconductor Corporation — 5 VOLT BUS SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI5C32X245B-ND	16-Bit Bus Switch	40-BQSOP	2.02	1.58	1.30
PI5C32X245BE-ND	16-Bit Bus Switch*	40-BQSOP	1.92	1.70	1.54
PI5C34X245BE-ND	32-Bit Bus Switch*	80-BQSOP	3.08	2.73	2.47
PI5C34X2245BE-ND	32-Bit, 2-Port Bus Switch*	80-BQSOP	3.63	3.21	2.91
PI5C3125QE-ND	Quad Bus Switch with Individual Enable*	16-QSOP	1.02	.90	.82
PI5C3126QE-ND	Quad Bus Switch with Individual Enable*	16-QSOP	1.02	.90	.82
PI5C3244SE-ND	8-Bit, 2-Port Bus Switch (FCT244 Pinout)*	20-SOIC	.84	.74	.68
PI5C3245QE-ND	8-Bit, 2-Port Bus Switch (FCT245 Pinout)*	20-QSOP	.84	.74	.68
PI5C3251QE-ND	8:1 Mux/Demux Bus Switch*	16-QSOP	.84	.74	.68
PI5C3253Q-ND	Dual 4:1 Mux/Demux Bus Switch	16-QSOP	.85	.77	.70
PI5C3253QE-ND	Dual 4:1 Mux/Demux Bus Switch*	16-QSOP	.84	.74	.68
PI5C3257QE-ND	Quad 2:1 Mux/Demux Bus Switch*	16-QSOP	.84	.74	.68
PI5C3305LE-ND	2-Bit Bus Switch with Individual Enables*	8-TSSOP	.98	.87	.79
PI5C3306LE-ND	2-Bit Bus Switch with Active Low Enables*	8-TSSOP	.98	.87	.79
PI5C3383QE-ND	5-Bit, 4-Port Bus Exchange Switch*	24-QSOP	1.02	.90	.82
PI5C3384QE-ND	10-Bit, 2-Port Bus Switch*	24-QSOP	.84	.74	.68
PI5C3861QE-ND	10-Bit, 2-Port Bus Switch*	24-QSOP	.84	.74	.68
PI5C16211A-ND	24-Bit, Bus Switch	56-TSSOP	1.98	1.79	1.62
PI5C16211AE-ND	24-Bit, Bus Switch*	56-TSSOP	2.00	1.77	1.60
PI5C16862CA-ND	5V, 20-Bit Bus Switch	48-TSSOP	2.15	1.85	1.65
PI5C162861BE-ND	20-Bit, 2-Port Bus Switch*	48-BQSOP	2.26	1.99	1.81

** RoHS Compliant*

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PERICOM® Semiconductor Corporation

VIDEO SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI3V312QE-ND	3.3V High Bandwidth, 4-Port, 2:1 Mux/Demux Video Switch*	16-QSOP	.71	.63	.57
PI3V512QE-ND	3.3V Wideband/Video Switch, 5-Port, 2:1 Mux/Demux*	24-QSOP	1.06	.94	.85
PI5V330QE-ND	Quad 2-1 Multiplexer Video Switch*	16-QSOP	2.50	2.21	2.00
PI5V330SWE-ND	Wideband/Video Quad 2-Channel Mux/Demux*	16-SOIC	1.08	.96	.87
PI5V331QE-ND	Dual 4-Channel Video Multiplexer/Demux*	16-QSOP	2.50	2.21	2.00
PI5V332QE-ND	Quad Video Switch*	16-QSOP	2.50	2.21	2.00

PERICOM® Semiconductor Corporation

CLOCK DISTRIBUTION PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI6C557-03LE-ND	PCI-Express Clock*	16-TSSOP	1.08	.96	.87
PI6C2405A-1HWE-ND	Zero-Delay Clock Buffer*	8-SOIC	2.47	2.19	1.98
PI6C3421ATEXCT-ND	27MHz Spread Spectrum Clock Synthesizer*	SOT-23-6	1.18	1.04	.95
PI6C3421ATEXTR-ND	27MHz Spread Spectrum Clock Synthesizer*	SOT-23-6	2394.00/3,000		
PI6C4511WE-ND	PLL Clock Multiplier*	8-SOIC	1.37	1.22	1.10
PI6C4512WE-ND	PLL Clock Multiplier*	8-SOIC	1.47	1.30	1.18
PI6C10804WE-ND	1.8V/2.5V, 250MHz, 1:4 Networking Clock Buffer*	8-SOIC	1.57	1.39	1.26
PI6C10806LE-ND	1.8V/2.5V, 250MHz, Low Skew 1:6 Crystal to LVCMOS Clock Buffer*	16-TSSOP	1.76	1.56	1.42
PI6C10807LE-ND	1.8V/2.5V, 250MHz, 1:10 Networking Clock Buffer*	20-TSSOP	1.96	1.74	1.57
PI6C20400HE-ND	1:4 Clock Driver for Intel PCI-Express Chipsets*	28-SSOP	2.45	2.16	1.96
PI6C20400LE-ND	1:4 Clock Driver for Intel PCI-Express Chipsets*	28-TSSOP	2.64	2.33	2.12
PI6C18551WE-ND	3.3V/5V, 160MHz, 4-Output CMOS Clock Buffer*	8-SOIC	1.96	1.74	1.57
PI6C48533-01LE-ND	3.3V Low Skew 1-to-4 Diff./LVCMOS to LVPECL Fanout Buffer*	20-TSSOP	3.72	3.29	2.98
PI6C48535-01LE-ND	3.3V Low Skew 1-to-4 LVTTL/LVCMOS to LVPECL Fanout Buffer*	20-TSSOP	3.72	3.29	2.98
PI6CV304LE-ND	160MHz Clock Buffer*	8-TSSOP	2.06	1.82	1.65
PI6CV304WE-ND	160MHz Clock Buffer*	8-SOIC	2.06	1.82	1.65
PI6CV2304LE-ND	160MHz Clock Buffer*	8-TSSOP	1.96	1.74	1.57
PI6CV2304WE-ND	160MHz Clock Buffer*	8-SOIC	1.96	1.74	1.57
PI6CX100-27WE-ND	27MHz, 3.3V VCXO for Set-Top Applications*	8-SOIC	.76	.68	.62
PI49FCT805ATQE-ND	Non-Inverting Clock Driver*	20-QSOP	3.51	3.20	2.80
PI49FCT805ATS-ND	Non-Inverting Clock Driver	20-SOIC	2.99	2.73	2.39
PI49FCT805ATSE-ND	Non-Inverting Clock Driver*	20-SOIC	3.50	3.09	2.80
PI49FCT3803LE-ND	156MHz, 7-Output Non-Inverting Clock Driver*	16-TSSOP	1.82	1.61	1.46
PI49FCT3803Q-ND	156MHz, 7-Output Non-Inverting Clock Driver	16-QSOP	1.49	1.36	1.25
PI49FCT3803QE-ND	156MHz, 7-Output Non-Inverting Clock Driver*	16-QSOP	1.82	1.61	1.46
PI49FCT3805DQE-ND	3.3V, 2 x 1:5 CMOS Clock Driver*	20-QSOP	7.45	6.58	5.97
PI49FCT3807AQE-ND	3.3V Fast CMOS Clock Driver*	20-QSOP	3.51	3.20	2.80
PI49FCT3807ASE-ND	3.3V Fast CMOS Clock Driver*	20-SOIC	3.50	3.09	2.80
PI49FCT3807CQE-ND	3.3V Fast CMOS Clock Driver*	20-QSOP	5.28	4.67	4.23
PI49FCT3807DSE-ND	3.3V Fast CMOS Clock Driver*	20-SOIC	6.36	5.81	5.30
PI49FCT3807QE-ND	3.3V Fast CMOS Clock Driver*	20-QSOP	3.82	3.37	3.06
PI49FCT32805QE-ND	3.3V, 2 x 1:5 CMOS Clock Driver*	20-QSOP	7.45	6.58	5.97
PI49FCT32807HE-ND	3.3V, 1:10 CMOS Clock Driver*	20-SSOP	7.74	6.83	6.20

PERICOM® Semiconductor Corporation

PCI BRIDGE — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI7C9X110BNBE-ND	PCI Express-to-PCI Reversible Bridge	160-LFBGA	19.50	18.16	16.57
PI7C8150BMAE-ND	Async. 2-Port PCI-to-PCI Bridge	208-FQFP	13.90	12.95	11.81
PI7C8150BNDE-ND	Async. 2-Port PCI-to-PCI Bridge	256-PBGA	13.90	12.95	11.81
PI7C8150BMAE-ND	2-Port PCI-to-PCI Bridge	160-MQFP	13.90	12.95	11.81

PERICOM® Semiconductor Corporation

SPECIALTY INTERFACE — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI4ULS3V08MZLE-ND	8-Bit, Non-Inverting Bus Transceiver	32-TQFN	2.84	2.51	2.27
PI4ULS3V16AE-ND	16-Bit, Non-Inverting Bus Transceiver	56-TSSOP	3.08	2.73	2.22
PI74HSTL1212AE-ND	24-Bit, 1.8V to 3.3V Bi-Directional Level Shifting Transceiver	64-TSSOP	6.85	6.05	5.48
PI74STX2G4245ZEEXCT-ND	2-Bit, Level Shifting Buffer/Transceiver	12-TDFN	.82	.73	.66
PI74STX2G4245ZEEXTR-ND	2-Bit, Level Shifting Buffer/Transceiver	12-TDFN	1956.50/3,500		
PI74STX4G4245ZJEXCT-ND	2-Bit, Level Shifting Buffer/Transceiver	16-TDFN	1.47	1.30	1.18
PI74STX4G4245ZJEXTR-ND	2-Bit, Level Shifting Buffer/Transceiver	16-TDFN	3493.00/3,500		

TOSHIBA

74AC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74AC00FN-ND	Quad 2-Input NAND Gate	14-SOL	.46	.37	.28
TC74AC00FNFCT-ND	Quad 2-Input NAND Gate*	14-SOL	.60	.45	.34
TC74AC00FNFTR-ND	Quad 2-Input NAND Gate*	14-SOL	487.50/2,500		
TC74AC00FNTR-ND	Quad 2-Input NAND Gate	14-SOL	307.13/2,500		
TC74AC00P-ND	Quad 2-Input NAND Gate	14-Dip	.46	.37	.28
TC74AC00PF-ND	Quad 2-Input NAND Gate*	14-Dip	.46	.37	.28
TC74AC02FNTR-ND	Quad 2-Input NOR Gate	14-SOL	320.63/2,500		
TC74AC02FNFCT-ND	Quad 2-Input NOR Gate*	14-SOL	.48	.38	.29
TC74AC02FNFTR-ND	Quad 2-Input NOR Gate*	14-SOL	320.63/2,500		
TC74AC02P-ND	Quad 2-Input NOR Gate	14-Dip	.48	.38	.29
TC74AC02PF-ND	Quad 2-Input NOR Gate*	14-Dip	.48	.38	.29
TC74AC04FNF-ND	Hex Inverter*	14-SOL	.46	.37	.28
TC74AC08FN-ND	Quad 2-Input AND Gate	14-SOL	.46	.37	.28
TC74AC08FNTR-ND	Quad 2-Input AND Gate	14-SOL	307.13/2,500		
TC74AC14FN-ND	Hex Schmitt Trigger Inverter	14-SOL	.55	.44	.33
TC74AC14FNF-ND	Hex Schmitt Trigger Inverter*	14-SOL	.55	.44	.33
TC74AC32FNF-ND	Quad 2-Input OR Gate*	14-SOL	.50	.40	.30
TC74AC32FNFCT-ND	Quad 2-Input OR Gate*	14-SOL	.48	.38	.29
TC74AC32FNFTR-ND	Quad 2-Input OR Gate*	14-SOL	320.63/2,500		
TC74AC74FN-ND	Dual D-Type Flip-Flop with Preset and Clear	14-SOL	.48	.39	.29
TC74AC74P-ND	Dual D-Type Flip-Flop with Preset and Clear	14-Dip	.48	.39	.29
TC74AC86FNF-ND	Quad Exclusive OR Gate*	14-SOL	.50	.40	.30
TC74AC125FN-ND	Quad Bus Buffer, Tri-State	14-SOL	.60	.45	.34
TC74AC125FNTR-ND	Quad Bus Buffer, Tri-State	14-SOL	484.25/2,500		
TC74AC138FN-ND	3-to-8 Line Decoder	16-SOL	.55	.42	.31
TC74AC138FNTR-ND	3-to-8 Line Decoder	16-SOL	461.50/2,500		
TC74AC138P-ND	3-to-8 Line Decoder	16-Dip	.57	.43	.32
TC74AC157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.84	.63	.48
TC74AC244P-ND	Octal Bus Buffer, Tri-State	20-Dip	.73	.55	.41
TC74AC244PF-ND	Octal Bus Buffer, Tri-State*	20-Dip	.73	.55	.41
TC74AC245FWTR-ND	Octal Bus Transceiver, Tri-State	20-SOL	227.43/1,000		
TC74AC245PF-ND	Octal Bus Transceiver, Tri-State*	20-Dip	.73	.55	.41
TC74AC573FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.77	.58	.44

TOSHIBA

74ACT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74ACT00FN-ND	Quad 2-Input NAND Gate	14-SOL	.51	.41	.31
TC74ACT00FNF-ND	Quad 2-Input NAND Gate*	14-SOL	.51	.41	.31
TC74ACT00FNTR-ND	Quad 2-Input NAND Gate	14-SOL	357.50/2,500		
TC74ACT00FNFCT-ND	Quad 2-Input NAND Gate*	14-SOL	.55	.44	.33
TC74ACT00FNFTR-ND	Quad 2-Input NAND Gate*	14-SOL	371.25/2,500		
TC74ACT04FNTR-ND	Hex Inverter	14-SOL	347.63/2,500		
TC74ACT14FNF-ND	Hex Schmitt Trigger Inverter*	14-SOL	.53	.43	.32
TC74ACT32FN-ND	Quad 2-Input OR Gate	14-SOL	.52	.42	.31
TC74ACT32FNTR-ND	Quad 2-Input OR Gate	14-SOL	347.63/2,500		
TC74ACT138FNTR-ND	3-to-8 Line Decoder	16-SOL	461.50/2,500		
TC74ACT139FN-ND	Dual 2-to-4 Line Decoder	16-SOL	.64	.49	.37
TC74ACT157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.84	.63	.48
TC74ACT244FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.73	.55	.41
TC74ACT244FWTR-ND	Octal Bus Buffer, Tri-State	20-SOL	242.06/1,000		
TC74ACT244P-ND	Octal Bus Buffer, Tri-State	20-Dip	.73	.55	.41
TC74ACT244PF-ND	Octal Bus Buffer, Tri-State*	20-Dip	.73	.55	.41
TC74ACT257FN-ND	Quad 2-Channel Multiplexer	16-SOL	.88	.66	.50
TC74ACT257FNF-ND	Quad 2-Channel Multiplexer*	16-SOL	.88	.66	.50
TC74ACT257FNTR-ND	Quad 2-Channel Multiplexer	16-SOL	715.00/2,500		
TC74ACT273FW-ND	Octal D-Type Flip-Flop with Clear	20-SOL	.83	.69	.56
TC74ACT373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.73	.55	.41
TC74ACT374FW-ND	Octal D-Type Flip-Flop	20-SOL	.73	.55	.41
TC74ACT541FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.77	.58	.44
TC74ACT541PF-ND	Octal Bus Buffer, Tri-State*	20-Dip	.77	.58	.44

TOSHIBA

74HC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74HC00AFN-ND	Quad 2-Input NAND Gate	14-SOL	.47	.38	.26
TC74HC00AFNF-ND	Quad 2-Input NAND Gate*	14-SOL	.49	.40	.27
TC74HC00AFNTR-ND	Quad 2-Input NAND Gate	14-SOL	243.00/2,500		
TC74HC00AFNFCT-ND	Quad 2-Input NAND Gate*	14-SOL	.47	.38	.26
TC74HC00AFNFTR-ND	Quad 2-Input NAND Gate*	14-SOL	306.00/2,500		
TC74HC00APF-ND	Quad 2-Input NAND Gate*	14-Dip	.47	.38	.26
TC74HC02AFN-ND	Quad 2-Input NOR Gate	14-SOL	.49	.40	.27
TC74HC02AFNF-ND	Quad 2-Input NOR Gate*	14-SOL	.52	.42	.29
TC74HC02AP-ND	Quad 2-Input NOR Gate	14-Dip	.49	.40	.27
TC74HC02APF-ND	Quad 2-Input NOR Gate*	14-Dip	.49	.40	.27
TC74HC03AP-ND	Quad 2-Input NAND Gate with Open Drain	14-Dip	.56	.45	.34
TC74HC04AFNF-ND	Hex Inverter*	14-SOL	.49	.40	.27
TC74HC04AFNTR-ND	Hex Inverter	14-SOL	318.75/2,500		
TC74HC04AFNFCT-ND	Hex Inverter*	14-SOL	.49	.40	.27
TC74HC04AFNFTR-ND	Hex Inverter*	14-SOL	318.75/2,500		
TC74HC04APF-ND	Hex Inverter*	14-Dip	.47	.38	.26
TC74HC08AFNF-ND	Quad 2-Input AND Gate*	14-SOL	.49	.40	.27
TC74HC08AFNFCT-ND	Quad 2-Input AND Gate*	14-SOL	.52	.42	.29
TC74HC08AFNFTR-ND	Quad 2-Input AND Gate*	14-SOL	340.00/2,500		
TC74HC08APF-ND	Quad 2-Input AND Gate*	14-Dip	.49	.40	.28
TC74HC10AP-ND	Triple 3-Input NAND Gate	14-Dip	.56	.45	.34
TC74HC10APF-ND	Triple 3-Input NAND Gate*	14-Dip	.56	.45	.34
TC74HC14AFNF-ND	Hex Schmitt Trigger Inverter*	14-SOL	.48	.39	.27
TC74HC14AFNFCT-ND	Hex Schmitt Trigger Inverter*	14-SOL	.48	.39	.27
TC74HC14AFNFTR-ND	Hex Schmitt Trigger Inverter*	14-SOL	314.50/2,500		
TC74HC14APF-ND	Hex Schmitt Trigger Inverter*	14-Dip	.51	.41	.29
TC74HC32AFN-ND	Quad 2-Input OR Gate	14-SOL	.49	.40	.27
TC74HC32AFNF-ND	Quad 2-Input OR Gate*	14-SOL	.49	.40	.27
TC74HC32AFNTR-ND	Quad 2-Input OR Gate	14-SOL	318.75/2,500		
TC74HC32AFNFCT-ND	Quad 2-Input OR Gate*	14-SOL	.49	.40	.27
TC74HC32AP-ND	Quad 2-Input OR Gate	14-Dip	.49	.40	.27
TC74HC32APF-ND	Quad 2-Input OR Gate*	14-Dip	.49	.40	.28
TC74HC74APF-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-Dip	.51	.41	.29
TC74HC86APF-ND	Quad Exclusive OR Gate*	14-Dip	.59	.47	.36
TC74HC123APF-ND	Dual Monostable Multivibrator*	16-Dip	.52	.39	.30
TC74HC125AFNF-ND	Quad Bus Buffer, Tri-State*	14-SOL	.52	.42	.32
TC74HC125AFNTR-ND	Quad Bus Buffer, Tri-State	14-SOL	347.63/2,500		
TC74HC125AFNFCT-ND	Quad Bus Buffer, Tri-State*	14-SOL	.50	.40	.30
TC74HC125AFNFTR-ND	Quad Bus Buffer, Tri-State*	14-SOL	334.13/2,500		
TC74HC125APF-ND	Quad Bus Buffer, Tri-State*	14-Dip	.53	.43	.32
TC74HC132AFN-ND	Quad 2-Input Schmitt NAND Gate	14-SOL	.53	.40	.30
TC74HC132AFNF-ND	Quad 2-Input Schmitt NAND Gate*	14-SOL	.53	.40	.30
TC74HC132AP-ND	Quad 2-Input Schmitt NAND Gate	14-Dip	.57	.43	.32
TC74HC132APF-ND	Quad 2-Input Schmitt NAND Gate*	14-Dip	.57	.43	.32
TC74HC138AFNF-ND	3-to-8 Line Decoder*	16-SOL	.47	.38	.28
TC74HC138AFNFCT-ND	3-to-8 Line Decoder*	16-SOL	.47	.38	.28
TC74HC138AFNFTR-ND	3-to-8 Line Decoder*	16-SOL	313.88/2,500		
TC74HC138APF-ND	3-to-8 Line Decoder*	16-Dip	.52	.42	.31
TC74HC139AFN-ND	Dual 2-to-4 Line Decoder	16-SOL	.52	.42	.31
TC74HC139AFNF-ND	Dual 2-to-4 Line Decoder*	16-SOL	.52	.42	.31
TC74HC139AFNTR-ND	Dual 2-to-4 Line Decoder	16-SOL	347.63/2,500		
TC74HC139AP-ND	Dual 2-to-4 Line Decoder	16-Dip	.52	.42	.31
TC74HC139APF-ND	Dual 2-to-4 Line Decoder*	16-Dip	.52	.42	.31
TC74HC157AP-ND	Quad 2-Channel Multiplexer	16-Dip	.55	.42	.32
TC74HC173AP-ND	Quad D-Type Register, Tri-State	16-Dip	.60	.46	.34
TC74HC173APF-ND	Quad D-Type Register, Tri-State*	16-Dip	.60	.46	.34
TC74HC175AFNF-ND	Quad D-Type Flip Flop with Clear*	16-SOL	.60	.48	.36
TC74HC244APF-ND	Octal Bus Buffer, Tri-State*	20-Dip	.60	.45	.34
TC74HC245AFWTR-ND	Octal Bus Transceiver, Tri-State	20-SOL	161.00/1,000		
TC74HC245APF-ND	Octal Bus Transceiver, Tri-State*	20-Dip	.60	.45	.34

***RoHS Compliant**

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

TOSHIBA 74HC SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC74HC259AP-ND	8-Bit Addressable Latch	16-Dip	.74	.56	.42
TC74HC273AFW-ND	Octal D-Type Flip-Flop with Clear	20-SOL	.63	.48	.36
TC74HC273APF-ND	Octal D-Type Flip Flop with Clear*	20-Dip	.65	.49	.37
TC74HC367APF-ND	Hex Bus Buffer, Tri-State*	16-Dip	.72	.54	.41
TC74HC373AFW-ND	Octal D-Type Latch, Tri-State	20-SOL	.58	.44	.33
TC74HC373AFWTR-ND	Octal D-Type Latch, Tri-State	20-SOL	199.50/1,000		
TC74HC373APF-ND	Octal D-Type Latch, Tri-State*	20-Dip	.60	.45	.34
TC74HC374AFW-ND	Octal D-Type Flip-Flop	20-SOL	.58	.44	.33
TC74HC374AFWTR-ND	Octal D-Type Flip-Flop	20-SOL	156.80/1,000		
TC74HC374AP-ND	Octal D-Type Flip-Flop	20-Dip	.60	.45	.34
TC74HC374APF-ND	Octal D-Type Flip-Flop*	20-Dip	.60	.45	.34
TC74HC541APF-ND	Octal Bus Buffer, Tri-State*	20-Dip	.60	.45	.34
TC74HC573AFW-ND	Octal D-Type Latch, Tri-State	20-SOL	.58	.44	.33
TC74HC573AFWTR-ND	Octal D-Type Latch, Tri-State	20-SOL	199.50/1,000		
TC74HC573APF-ND	Octal D-Type Latch, Tri-State*	20-Dip	.60	.45	.34
TC74HC574AP-ND	Octal D-Type Flip-Flop, Tri-State	20-Dip	.60	.45	.34
TC74HC574APF-ND	Octal D-Type Flip-Flop, Tri-State*	20-Dip	.60	.45	.34
TC74HC592APF-ND	8-Bit Register/Binary Counter*	16-Dip	.91	.76	.61
TC74HC595AFNF-ND	8-Bit Shift Register/Latch, Tri-State*	16-SOL	.56	.42	.32
TC74HC595APF-ND	8-Bit Shift Register/Latch, Tri-State*	16-Dip	.57	.43	.32
TC74HC4040AFN-ND	12-Stage Binary Counter	16-SOL	.53	.40	.30
TC74HC4040AFNF-ND	12-Stage Binary Counter*	16-SOL	.55	.42	.32
TC74HC4040APF-ND	12-Stage Binary Counter*	16-Dip	.57	.43	.32
TC74HC4051APF-ND	8-Channel Analog Multiplexer*	16-Dip	.74	.56	.42
TC74HC4052APF-ND	Dual 4-Channel Analog Multiplexer*	16-Dip	.74	.56	.42
TC74HC4053AFNF-ND	Triple 2-Channel Analog Multiplexer*	16-SOL	.54	.41	.31
TC74HC4053AFNFCT-ND	Triple 2-Channel Analog Multiplexer*	16-SOL	.54	.41	.31
TC74HC4053AFNFTR-ND	Triple 2-Channel Analog Multiplexer*	16-SOL	435.50/2,500		
TC74HC4053AP-ND	Triple 2-Channel Analog Multiplexer	16-Dip	.60	.45	.34
TC74HC4053APF-ND	Triple 2-Channel Analog Mulitplexer*	16-Dip	.60	.45	.34
TC74HC4066AFNF-ND	Quad Bilateral Switch*	14-SOL	.60	.48	.36
TC74HC4066APF-ND	Quad Bilateral Switch*	14-Dip	.56	.43	.32

TOSHIBA 74LCX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC74LCX00FNF-ND	Quad 2-Input NAND Gate*	14-SOL	.51	.39	.29
TC74LCX00FTFCT-ND	Quad 2-Input NAND Gate*	14-TSSOP	.51	.41	.31
TC74LCX00FTFTR-ND	Quad 2-Input NAND Gate*	14-TSSOP	285.60/2,000		
TC74LCX02FN-ND	Quad 2-Input NOR Gate	14-SOL	.48	.36	.27
TC74LCX02FNF-ND	Quad 2-Input NOR Gate*	14-SOL	.48	.36	.27
TC74LCX02FTCT-ND	Quad 2-Input NOR Gate	14-TSSOP	.51	.41	.31
TC74LCX02FTFCT-ND	Quad 2-Input NOR Gate*	14-TSSOP	.51	.41	.31
TC74LCX02FTFTR-ND	Quad 2-Input NOR Gate*	14-TSSOP	285.60/2,000		
TC74LCX04FNF-ND	Hex Inverter*	14-SOL	.51	.39	.29
TC74LCX04FTCT-ND	Hex Inverter	14-TSSOP	.51	.41	.31
TC74LCX04FTFCT-ND	Hex Inverter*	14-TSSOP	.51	.41	.31
TC74LCX04FTFTR-ND	Hex Inverter*	14-TSSOP	285.60/2,000		
TC74LCX08FNF-ND	Quad 2-Input AND Gate*	14-SOL	.51	.39	.29
TC74LCX08FTFTR-ND	Quad 2-Input AND Gate*	14-TSSOP	285.60/2,000		
TC74LCX14FN-ND	Hex Schmitt Trigger Inverter	14-SOL	.51	.39	.29
TC74LCX14FNF-ND	Hex Schmitt Trigger Inverter*	14-SOL	.51	.39	.29
TC74LCX14FTFCT-ND	Hex Schmitt Trigger Inverter*	14-TSSOP	.51	.41	.31
TC74LCX14FTFTR-ND	Hex Schmitt Trigger Inverter*	14-TSSOP	285.60/2,000		
TC74LCX32FNF-ND	Quad 2-Input OR Gate*	14-SOL	.51	.39	.29
TC74LCX32FTFCT-ND	Quad 2-Input OR Gate*	14-TSSOP	.51	.41	.31
TC74LCX32FTFTR-ND	Quad 2-Input OR Gate*	14-TSSOP	285.60/2,000		
TC74LCX74FTCT-ND	Dual D-Type Flip-Flop with Preset and Clear	14-TSSOP	.53	.43	.32
TC74LCX74FTFCT-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	.53	.42	.32
TC74LCX74FTFTR-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	294.00/2,000		
TC74LCX86FN-ND	Quad 2-Input Exclusive OR Gate	14-SOL	.51	.39	.29
TC74LCX86FNF-ND	Quad 2-Input Exclusive OR Gate*	14-SOL	.51	.39	.29
TC74LCX86FTCT-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.54	.44	.33
TC74LCX125FNF-ND	Quad Bus Buffer, Tri-State*	14-SOL	.56	.42	.32
TC74LCX125FTFCT-ND	Quad Bus Buffer, Tri-State*	14-TSSOP	.51	.41	.31
TC74LCX125FTFTR-ND	Quad Bus Buffer, Tri-State*	14-TSSOP	285.60/2,000		
TC74LCX138FNF-ND	3-to-8 Line Decoder*	16-SOL	.61	.46	.35
TC74LCX138FTFCT-ND	3-to-8 Line Decoder*	16-TSSOP	.49	.37	.28
TC74LCX138FTFTR-ND	3-to-8 Line Decoder*	16-TSSOP	324.52/2,000		
TC74LCX157FTFCT-ND	Quad 2-Channel Multiplexer*	16-TSSOP	.59	.47	.36
TC74LCX157FTFTR-ND	Quad 2-Channel Multiplexer*	16-TSSOP	327.60/2,000		
TC74LCX240FTFCT-ND	Octal Inverting Bus Buffer, Tri-State*	20-TSSOP	.52	.40	.30
TC74LCX240FTFTR-ND	Octal Inverting Bus Buffer, Tri-State*	20-TSSOP	348.46/2,000		
TC74LCX240FW-ND	Octal Inverting Bus Buffer, Tri-State	20-SOL	.84	.70	.56
TC74LCX244FTFCT-ND	Octal Bus Buffer, Tri-State*	20-TSSOP	.52	.40	.30
TC74LCX244FTFTR-ND	Octal Bus Buffer, Tri-State*	20-TSSOP	348.46/2,000		
TC74LCX244FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.96	.73	.55
TC74LCX245FTFCT-ND	Octal Bus Transceiver, Tri-State*	20-TSSOP	.58	.44	.33
TC74LCX245FTFTR-ND	Octal Bus Transceiver, Tri-State*	20-TSSOP	385.70/2,000		
TC74LCX245FW-ND	Octal Bus Transceiver, Tri-State	20-SOL	.96	.73	.55
TC74LCX373FTCT-ND	Octal D-Type Latch, Tri-State	20-TSSOP	.53	.40	.30
TC74LCX373FTFCT-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	.52	.39	.30
TC74LCX373FTFTR-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	345.80/2,000		
TC74LCX373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.60	.49	.37
TC74LCX374FTFCT-ND	Octal D-Type Flip-Flop*	20-TSSOP	.54	.41	.31
TC74LCX374FTFTR-ND	Octal D-Type Flip-Flop*	20-TSSOP	359.10/2,000		
TC74LCX374FW-ND	Octal D-Type Flip-Flop	20-SOL	.96	.73	.55
TC74LCX540FTFCT-ND	Octal Inverting Bus Buffer*	20-TSSOP	.54	.41	.31
TC74LCX540FTFTR-ND	Octal Inverting Bus Buffer*	20-TSSOP	359.10/2,000		
TC74LCX541FTFCT-ND	Octal Bus Buffer*	20-TSSOP	.54	.41	.31
TC74LCX541FTFTR-ND	Octal Bus Buffer*	20-TSSOP	359.10/2,000		
TC74LCX541FW-ND	Octal Bus Buffer	20-SOL	.76	.63	.51
TC74LCX573FTFCT-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	.54	.41	.31
TC74LCX573FTFTR-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	359.10/2,000		
TC74LCX574FTFCT-ND	Octal D-Type Flip-Flop, Tri-State*	20-TSSOP	.54	.41	.31
TC74LCX574FTFTR-ND	Octal D-Type Flip-Flop, Tri-State*	20-TSSOP	359.10/2,000		
TC74LCX574FW-ND	Octal D-Type Flip-Flop, Tri-State	20-SOL	.76	.63	.51
TC74LCX16240AFTTR-ND	Inverting 16-Bit Bus Buffer, Tri-State	48-TSSOP	650.00/1,000		
TC74LCX16244AFTFCT-ND	16-Bit Bus Buffer, Tri-State*	48-TSSOP	1.40	1.17	.94
TC74LCX16244ELFCT-ND	16-Bit Bus Buffer, Tri-State*	48-TSSOP	1.40	1.17	.94
TC74LCX16244ELFTR-ND	16-Bit Bus Buffer, Tri-State*	48-TSSOP	619.78/1,000		
TC74LCX16245AFTTR-ND	16-Bit Bus Transceiver, Tri-State	48-TSSOP	619.78/1,000		
TC74LCX16245AFTFCT-ND	16-Bit Bus Transceiver, Tri-State*	48-TSSOP	1.40	1.17	.94
TC74LCX16245AFTFTR-ND	16-Bit Bus Transceiver, Tri-State*	48-TSSOP	619.78/1,000		
TC74LCX16373AFTTR-ND	16-Bit D-Type Latch, Tri-State	48-TSSOP	619.78/1,000		
TC74LCX16373AFTFCT-ND	16-Bit D-Type Latch, Tri-State*	48-TSSOP	1.40	1.17	.94
TC74LCX16373AFTFTR-ND	16-Bit D-Type Latch, Tri-State*	48-TSSOP	619.78/1,000		
TC74LCX16374AFTTR-ND	16-Bit D-Type Flip-Flop, Tri-State	48-TSSOP	619.78/1,000		
TC74LCX16374AFTFCT-ND	16-Bit D-Type Flip-Flop, Tri-State*	48-TSSOP	1.40	1.17	.94
TC74LCX16374AFTFTR-ND	16-Bit D-Type Flip-Flop, Tri-State*	48-TSSOP	619.78/1,000		

TOSHIBA 74LVX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC74LVX00FN-ND	Quad 2-Input NAND Gate	14-SOL	.43	.35	.26
TC74LVX02FN-ND	Quad 2-Input NOR Gate	14-SOL	.46	.37	.28
TC74LVX02FTTR-ND	Quad 2-Input NOR Gate	14-TSSOP	240.80/2,000		
TC74LVX02FTFCT-ND	Quad 2-Input NOR Gate*	14-TSSOP	.43	.35	.26
TC74LVX02FTFTR-ND	Quad 2-Input NOR Gate*	14-TSSOP	240.80/2,000		
TC74LVX04FN-ND	Hex Inverter	14-SOL	.43	.35	.26
TC74LVX04FNF-ND	Hex Inverter*	14-SOL	.43	.35	.26
TC74LVX04FTFCT-ND	Hex Inverter*	14-TSSOP	.43	.35	.26
TC74LVX04FTFTR-ND	Hex Inverter*	14-TSSOP	240.80/2,000		
TC74LVX08FNF-ND	Quad 2-Input AND Gate*	14-SOL	.43	.35	.26
TC74LVX08FTFCT-ND	Quad 2-Input AND Gate*	14-TSSOP	.43	.35	.26
TC74LVX08FTFTR-ND	Quad 2-Input AND Gate*	14-TSSOP	240.80/2,000		
TC74LVX14FNF-ND	Hex Schmitt Trigger Inverter*	14-SOL	.46	.37	.28
TC74LVX14FTFCT-ND	Hex Schmitt Trigger Inverter*	14-TSSOP	.53	.42	.32
TC74LVX14FTFTR-ND	Hex Schmitt Trigger Inverter*	14-TSSOP	294.00/2,000		
TC74LVX32FN-ND	Quad 2-Input OR Gate	14-SOL	.43	.35	.26
TC74LVX32FNF-ND	Quad 2-Input OR Gate*	14-SOL	.43	.35	.26
TC74LVX32FTFCT-ND	Quad 2-Input OR Gate*	14-TSSOP	.43	.35	.26
TC74LVX32FTFTR-ND	Quad 2-Input OR Gate*	14-TSSOP	240.80/2,000		
TC74LVX74FN-ND	Dual D-Type Flip-Flop with Preset and Clear	14- SOL	.53	.42	.32
TC74LVX74FNF-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-SOL	.53	.42	.32
TC74LVX74FTMCT-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	.53	.42	.32
TC74LVX74FTMTR-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	294.00/2,000		
TC74LVX86FNF-ND	Quad Exclusive OR Gate*	14-SOL	.53	.43	.32
TC74LVX86FTTR-ND	Quad Exclusive OR Gate	14-TSSOP	294.00/2,000		
TC74LVX86FTMCT-ND	Quad Exclusive OR Gate*	14-TSSOP	.53	.42	.32
TC74LVX86FTMTR-ND	Quad Exclusive OR Gate*	14-TSSOP	294.00/2,000		
TC74LVX125FN-ND	Quad Bus Buffer, Tri-State	14-SOL	.68	.51	.39
TC74LVX125FNF-ND	Quad Bus Buffer, Tri-State*	14-SOL	.68	.51	.39
TC74LVX125FTFCT-ND	Quad Bus Buffer, Tri-State*	14-TSSOP	.55	.42	.31
TC74LVX125FTFTR-ND	Quad Bus Buffer, Tri-State*	14-TSSOP	364.42/2,000		
TC74LVX138FN-ND	3-to-8 Line Decoder	16-SOL	.52	.39	.30
TC74LVX138FNF-ND	3-to-8 Line Decoder*	16-SOL	.52	.39	.30
TC74LVX138FTFCT-ND	3-to-8 Line Decoder*	16-TSSOP	.52	.39	.30
TC74LVX138FTFTR-ND	3-to-8 Line Decoder*	16-TSSOP	345.80/2,000		
TC74LVX157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.56	.42	.32
TC74LVX157FTTR-ND	Quad 2-Channel Multiplexer	16-TSSOP	330.40/2,000		
TC74LVX174FNF-ND	Hex D-Type Flip-Flop with Clear*	16-SOL	.84	.63	.48
TC74LVX240FW-ND	Octal Inverting Bus Buffer, Tri-State	20-SOL	.68	.52	.39
TC74LVX244FTFCT-ND	Octal Bus Buffer, Tri-State*	20-TSSOP	.68	.52	.39
TC74LVX244FTFTR-ND	Octal Bus Buffer, Tri-State*	20-TSSOP	454.86/2,000		
TC74LVX245FTFCT-ND	Octal Bus Transceiver, Tri-State*	20-TSSOP	.68	.52	.39
TC74LVX245FTFTR-ND	Octal Bus Transceiver, Tri-State*	20-TSSOP	454.86/2,000		
TC74LVX245FW-ND	Octal Bus Transceiver, Tri-State	20-SOL	.68	.52	.39
TC74LVX373FTMCT-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	.68	.52	.39
TC74LVX373FTMTR-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	454.86/2,000		
TC74LVX373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.68	.52	.39
TC74LVX374FW-ND	Octal D-Type Flip-Flop	20-SOL	.68	.52	.39
TC74LVX573FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.71	.54	.41
TC74LVX4245FSFCT-ND	Dual Supply Octal Bus Transceiver*	24-TSSOP	1.43	1.15	.86
TC74LVX4245FSFTR-ND	Dual Supply Octal Bus Transceiver*	24-TSSOP	1487.20/2,000		

TOSHIBA 74VHC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC74VHC00FN-ND	Quad 2-Input NAND Gate	14-SOL	.43	.35	.26
TC74VHC00FNM-ND	Quad 2-Input NAND Gate*	14-SOL	.43	.35	.26
TC74VHC00FTMCT-ND	Quad 2-Input NAND Gate*	14-TSSOP	.49	.40	.28
TC74VHC00FTMTR-ND	Quad 2-Input NAND Gate*	14-TSSOP	273.60/2,000		
TC74VHC02FN-ND	Quad 2-Input NOR Gate	14-SOL	.43	.35	.26
TC74VHC02FNF-ND	Quad 2-Input NOR Gate*	14-SOL	.43	.35	.26
TC74VHC02FNMCT-ND	Quad 2-Input NOR Gate*	14-SOL	.43	.35	.26
TC74VHC02FNMTR-ND	Quad 2-Input NOR Gate*	14-SOL	290.25/2,500		
TC74VHC02FTMCT-ND	Quad 2-Input NOR Gate*	14-TSSOP	.51	.41	.29
TC74VHC02FTMTR-ND	Quad 2-Input NOR Gate*	14-TSSOP	280.80/2,000		
TC74VHC04FN-ND	Hex Inverter	14-SOL	.43	.35	.26
TC74VHC04FNF-ND	Hex Inverter*	14-SOL	.43	.35	.26
TC74VHC04FNTR-ND	Hex Inverter	14-SOL	290.25/2,500		
TC74VHC04FTELMTR-ND	Hex Inverter	14-TSSOP	218.40/2,000		
TC74VHC08FTMCT-ND	Quad 2-Input AND Gate*	14-TSSOP	.49	.40	.28
TC74VHC08FTMTR-ND	Quad 2-Input AND Gate*	14-TSSOP	273.60/2,000		
TC74VHC10FNF-ND	Triple 3-Input NAND Gate*	14-SOL	.50	.40	.30
TC74VHC11FTMCT-ND	Triple 3-Input AND Gate*	14-TSSOP	.51	.41	.31
TC74VHC11FTMTR-ND	Triple 3-Input AND Gate*	14-TSSOP	282.80/2,000		
TC74VHC14FTMCT-ND	Hex Schmitt Trigger Inverter*	14-TSSOP	.47	.39	.27
TC74VHC14FTMTR-ND	Hex Schmitt Trigger Inverter*	14-TSSOP	262.80/2,000		
TC74VHC20FN-ND	Dual 4-Input NAND Gate	14-SOL	.47	.38	.29
TC74VHC20FNF-ND	Dual 4-Input NAND Gate*	14-SOL	.47	.38	.29
TC74VHC21FN-ND	Dual 4-Input AND Gate	14-SOL	.47	.38	.29
TC74VHC21FNMF-ND	Dual 4-Input AND Gate*	14-SOL	.38	.29	.22
TC74VHC21FTMCT-ND	Dual 4-Input AND Gate*	14-TSSOP	.51	.41	.31
TC74VHC21FTMTR-ND	Dual 4-Input AND Gate*	14-TSSOP	282.80/2,000		
TC74VHC32FNF-ND	Quad 2-Input OR Gate*	14-SOL	.43	.35	.26
TC74VHC32FTMCT-ND	Quad 2-Input OR Gate*	14-TSSOP	.49	.40	.28
TC74VHC32FTMTR-ND	Quad 2-Input OR Gate*	14-TSSOP	273.60/2,000		
TC74VHC74FNF-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-SOL	.53	.42	.32
TC74VHC74FTMCT-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	.49	.40	.28
TC74VHC74FTMTR-ND	Dual D-Type Flip-Flop with Preset and Clear*	14-TSSOP	273.60/2,000		
TC74VHC86FN-ND	Quad Exclusive OR Gate	14-SOL	.53	.42	.32
TC74VHC86FNF-ND	Quad Exclusive OR Gate*	14-SOL	.53	.42	.32

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(Continued)

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TOSHIBA 74VHC SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74VHC86FTMCT-ND	Quad Exclusive OR Gate*	14-TSSOP	.47	.38	.28
TC74VHC86FTMTR-ND	Quad Exclusive OR Gate*	14-TSSOP		260.40/2,000	
TC74VHC125FNF-ND	Quad Bus Buffer, Tri-State*	14-SOL	.56	.45	.34
TC74VHC125FNTR-ND	Quad Bus Buffer, Tri-State	14-SOL		422.50/2,500	
TC74VHC125FNMCT-ND	Quad Bus Buffer, Tri-State*	14-SOL	.52	.39	.30
TC74VHC125FNMTR-ND	Quad Bus Buffer, Tri-State*	14-SOL		422.50/2,500	
TC74VHC125FTMCT-ND	Quad Bus Buffer, Tri-State*	14-TSSOP	.55	.44	.33
TC74VHC125FTMTR-ND	Quad Bus Buffer, Tri-State*	14-TSSOP		305.20/2,000	
TC74VHC138FN-ND	3-to-8 Line Decoder	16-SOL	.52	.39	.30
TC74VHC138FNF-ND	3-to-8 Line Decoder*	16-SOL	.52	.39	.30
TC74VHC138FNTR-ND	3-to-8 Line Decoder	16-SOL		422.50/2,500	
TC74VHC138FTMCT-ND	3-to-8 Line Decoder*	16-TSSOP	.55	.44	.33
TC74VHC138FTMTR-ND	3-to-8 Line Decoder*	16-TSSOP		308.00/2,000	
TC74VHC139FTMCT-ND	Dual 2-to-4 Line Decoder*	16-TSSOP	.54	.43	.33
TC74VHC139FTMTR-ND	Dual 2-to-4 Line Decoder*	16-TSSOP		299.60/2,000	
TC74VHC153FTMCT-ND	Dual 4-Channel Multiplexer*	16-TSSOP	.48	.36	.27
TC74VHC153FTMTR-ND	Dual 4-Channel Multiplexer*	16-TSSOP		319.20/2,000	
TC74VHC157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.55	.42	.31
TC74VHC157FNF-ND	Quad 2-Channel Multiplexer*	16-SOL	.55	.42	.31
TC74VHC157FTTR-ND	Quad 2-Channel Multiplexer	16-TSSOP		351.00/2,000	
TC74VHC164FTMCT-ND	8-Bit SIPO Shift Register*	14-TSSOP	.54	.41	.31
TC74VHC164FTMTR-ND	8-Bit SIPO Shift Register*	14-TSSOP		359.10/2,000	
TC74VHC165FNF-ND	8-Bit PISO Shift Register*	16-SOL	.58	.44	.33
TC74VHC165FTMCT-ND	8-Bit PISO Shift Register*	16-TSSOP	.54	.41	.31
TC74VHC165FTMTR-ND	8-Bit PISO Shift Register*	16-TSSOP		356.44/2,000	
TC74VHC174FN-ND	Hex D-Type Flip-Flop with Clear	16-SOL	.55	.42	.31
TC74VHC174FTMCT-ND	Hex D-Type Flip-Flop with Clear*	16-TSSOP	.52	.39	.30
TC74VHC174FTMTR-ND	Hex D-Type Flip-Flop with Clear*	16-TSSOP		343.14/2,000	
TC74VHC175FN-ND	Quad D-Type Flip-Flop with Clear	16-SOL	.55	.42	.31
TC74VHC175FNF-ND	Quad D-Type Flip-Flop with Clear*	16-SOL	.55	.42	.31
TC74VHC238FNF-ND	3-to-8 Line Decoder*	16-SOL	.58	.44	.33
TC74VHC238FTMCT-ND	3-to-8 Line Decoder*	16-TSSOP	.88	.67	.50
TC74VHC238FTMTR-ND	3-to-8 Line Decoder*	16-TSSOP		587.86/2,000	
TC74VHC240FTMCT-ND	Octal Inverting Bus Buffer, Tri-State*	20-TSSOP	.49	.37	.28
TC74VHC240FTMTR-ND	Octal Inverting Bus Buffer, Tri-State*	20-TSSOP		324.52/2,000	
TC74VHC240FW-ND	Octal Inverting Bus Buffer, Tri-State	20-SOL	.60	.45	.34
TC74VHC244FTMCT-ND	Octal Bus Buffer, Tri-State*	20-TSSOP	.49	.37	.28
TC74VHC244FTMTR-ND	Octal Bus Buffer, Tri-State*	20-TSSOP		324.52/2,000	
TC74VHC244FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.60	.45	.34
TC74VHC245FTMCT-ND	Octal Bus Transceiver, Tri-State*	20-TSSOP	.54	.41	.31
TC74VHC245FTMTR-ND	Octal Bus Transceiver, Tri-State*	20-TSSOP		356.44/2,000	
TC74VHC245FW-ND	Octal Bus Transceiver, Tri-State	20-SOL	.68	.52	.39
TC74VHC245FWTR-ND	Octal Bus Transceiver, Tri-State	20-SOL		226.10/1,000	
TC74VHC273FTMCT-ND	Octal D-Type Flip-Flop with Clear*	20-TSSOP	.49	.37	.28
TC74VHC273FTMTR-ND	Octal D-Type Flip-Flop with Clear*	20-TSSOP		324.52/2,000	
TC74VHC273FW-ND	Octal D-Type Flip-Flop with Clear*	20-SOL	.68	.52	.39
TC74VHC299FW-ND	8-Bit PIPO Shift Register	20-SOL	1.28	1.03	.77
TC74VHC367FN-ND	Hex Bus Buffer, Tri-State	16-SOL	.56	.42	.32
TC74VHC367FNMCT-ND	Hex Bus Buffer, Tri-State*	16-SOL	.76	.57	.43
TC74VHC367FNMTR-ND	Hex Bus Buffer, Tri-State*	16-SOL		617.50/2,500	
TC74VHC373FTMCT-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	.51	.41	.31
TC74VHC373FTMTR-ND	Octal D-Type Latch, Tri-State*	20-TSSOP		285.60/2,000	
TC74VHC373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.60	.45	.34
TC74VHC374FTMCT-ND	Octal D-Type Flip-Flop, Tri-State*	20-TSSOP	.49	.37	.28
TC74VHC374FTMTR-ND	Octal D-Type Flip-Flop, Tri-State*	20-TSSOP		324.52/2,000	
TC74VHC374FW-ND	Octal D-Type Flip-Flop	20-SOL	.60	.45	.34
TC74VHC374FWTR-ND	Octal D-Type Flip-Flop	20-SOL		198.17/1,000	
TC74VHC393FTMCT-ND	Dual Binary Counter*	14-TSSOP	.86	.65	.49
TC74VHC393FTMTR-ND	Dual Binary Counter*	14-TSSOP		569.24/2,000	
TC74VHC540FTMCT-ND	Inverting Octal Bus Buffer, Tri-State*	20-TSSOP	.54	.41	.31
TC74VHC540FTMTR-ND	Inverting Octal Bus Buffer, Tri-State*	20-TSSOP		359.10/2,000	
TC74VHC540FW-ND	Inverting Octal Bus Buffer, Tri-State	20-SOL	.60	.45	.34
TC74VHC541FTMCT-ND	Octal Bus Buffer, Tri-State*	20-TSSOP	.54	.41	.31
TC74VHC541FTMTR-ND	Octal Bus Buffer, Tri-State*	20-TSSOP		359.10/2,000	
TC74VHC541FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.60	.45	.34
TC74VHC541FWTR-ND	Octal Bus Buffer, Tri-State	20-SOL		198.17/1,000	
TC74VHC573FTMCT-ND	Octal D-Type Latch, Tri-State*	20-TSSOP	.54	.41	.31
TC74VHC573FTMTR-ND	Octal D-Type Latch, Tri-State*	20-TSSOP		359.10/2,000	
TC74VHC573FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.60	.45	.34
TC74VHC573FWTR-ND	Octal D-Type Latch, Tri-State	20-SOL		191.52/1,000	
TC74VHC574FTMCT-ND	Octal D-Type Flip-Flop, Tri-State*	20-TSSOP	.54	.41	.31
TC74VHC574FTMTR-ND	Octal D-Type Flip-Flop, Tri-State*	20-TSSOP		359.10/2,000	
TC74VHC574FW-ND	Octal D-Type Flip-Flop, Tri-State	20-SOL	.60	.45	.34
TC74VHC574FWTR-ND	Octal D-Type Flip-Flop, Tri-State	20-SOL		198.17/1,000	
TC74VHC595FNF-ND	8-Bit Shift Register/Latch, Tri-State*	16-SOL	.63	.48	.36
TC74VHC595FTMCT-ND	8-Bit Shift Register/Latch, Tri-State*	16-TSSOP	1.00	.75	.57
TC74VHC595FTMTR-ND	8-Bit Shift Register/Latch, Tri-State*	16-TSSOP		662.34/2,000	
TC74VHC4040FNF-ND	12-Stage Binary Counter*	16-SOL	.64	.48	.36
TC74VHC4040FTMCT-ND	12-Stage Binary Counter*	16-TSSOP	.57	.43	.33
TC74VHC4040FTMTR-ND	12-Stage Binary Counter*	16-TSSOP		380.38/2,000	

TOSHIBA LMOS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC4S01FFCT-ND	2-Input NOR Gate*	5-SSOP	.46	.37	.26
TC4S01FFTR-ND	2-Input NOR Gate*	5-SSOP		357.00/3,000	
TC4S66FFCT-ND	Single Analog Switch (4066B)*	SMV-5	.46	.37	.26
TC4S66FFTR-ND	Single Analog Switch (4066B)*	SMV-5		357.00/3,000	
TC4S584FFCT-ND	Single Schmitt Trigger (4584B)*	5-SSOP	.50	.40	.30
TC4S584FFTR-ND	Single Schmitt Trigger (4584B)*	5-SSOP		405.00/3,000	
TC7S00FFCT-ND	Single NAND Gate (74HC00)*	5-SSOP	.36	.29	.20
TC7S00FFTR-ND	Single NAND Gate (74HC00)*	5-SSOP		243.00/3,000	
TC7S02FFCT-ND	Single NOR Gate (74HC02)*	5-SSOP	.36	.29	.20
TC7S02FFTR-ND	Single NOR Gate (74HC02)*	5-SSOP		243.00/3,000	
TC7S04FTFCT-ND	Single Inverter (74HC04)*	5-SSOP	.36	.29	.20
TC7S04FTFTR-ND	Single Inverter (74HC04)*	5-SSOP		243.00/3,000	
TC7S08FFCT-ND	2-Input AND Gate (74HC08)*	5-SSOP	.36	.29	.20
TC7S08FFTR-ND	2-Input AND Gate (74HC08)*	5-SSOP		243.00/3,000	
TC7S14FT5FCT-ND	Schmitt Inverter*	5-SSOP	.36	.29	.20
TC7S14FT5FTR-ND	Schmitt Inverter*	5-SSOP		243.00/3,000	
TC7S32FCT-ND	Single OR Gate (74HC32)	5-SSOP	.36	.29	.20
TC7S32FFCT-ND	2-Input OR Gate (74HC32)*	5-SSOP	.36	.29	.20
TC7S32FFTR-ND	2-Input OR Gate (74HC32)*	5-SSOP		243.00/3,000	
TC7SET00FCT-ND	Single TTL NAND Gate	5-SSOP	.36	.29	.20
TC7SET00FTR-ND	Single TTL NAND Gate	5-SSOP		243.00/3,000	
TC7SET00FUTCT-ND	Single TTL NAND Gate	5-SSOP	.36	.29	.20
TC7SET00FUTFCT-ND	2-Input NAND Gate*	5-SSOP	.36	.29	.20
TC7SET00FUTFTR-ND	2-Input NAND Gate*	5-SSOP		243.00/3,000	
TC7SET02FCT-ND	Single TTL NOR Gate	5-SSOP	.36	.29	.20
TC7SET02FTR-ND	Single TTL NOR Gate	5-SSOP		243.00/3,000	
TC7SET04FFCT-ND	Single TTL Inverter Gate*	5-SSOP	.36	.29	.20
TC7SET04FFTR-ND	Single TTL Inverter Gate*	5-SSOP		243.00/3,000	
TC7SET04FUTFCT-ND	Single TTL Inverter Gate*	5-SSOP	.36	.29	.20
TC7SET04FUTFTR-ND	Single TTL Inverter Gate*	5-SSOP		243.00/3,000	
TC7SET08FCT-ND	Single TTL AND Gate	5-SSOP	.36	.29	.20
TC7SET08FTR-ND	Single TTL AND Gate	5-SSOP		243.00/3,000	
TC7SET08FFCT-ND	2-Input AND Gate*	5-SSOP	.36	.29	.20
TC7SET08FFTR-ND	2-Input AND Gate*	5-SSOP		243.00/3,000	
TC7SET08FUTCT-ND	Single TTL AND Gate	5-SSOP	.36	.29	.20
TC7SET08FUTFCT-ND	2-Input AND Gate*	5-SSOP	.36	.29	.20
TC7SET08FUTFTR-ND	2-Input AND Gate*	5-SSOP		243.00/3,000	
TC7SET32FCT-ND	Single TTL OR Gate	5-SSOP	.36	.29	.20
TC7SET32FTR-ND	Single TTL OR Gate	5-SSOP		243.00/3,000	
TC7SET32FFCT-ND	2-Input OR Gate*	5-SSOP	.36	.29	.20
TC7SET32FFTR-ND	2-Input OR Gate*	5-SSOP		243.00/3,000	
TC7SET32FUTFCT-ND	2-Input OR Gate*	5-SSOP	.36	.29	.20
TC7SET32FUTFTR-ND	2-Input OR Gate*	5-SSOP		243.00/3,000	
TC7SH00FFCT-ND	2-Input NAND Gate*	5-SSOP	.36	.29	.20
TC7SH00FFTR-ND	2-Input NAND Gate*	5-SSOP		243.00/3,000	
TC7SH02FFCT-ND	2-Input NOR Gate*	5-SSOP	.36	.29	.20
TC7SH02FFTR-ND	2-Input NOR Gate*	5-SSOP		243.00/3,000	
TC7SH04FFCT-ND	Single Inverter*	5-SSOP	.36	.29	.20
TC7SH04FFTR-ND	Single Inverter*	5-SSOP		243.00/3,000	
TC7SH32FFCT-ND	2-Input OR Gate*	5-SSOP	.36	.29	.20
TC7SH32FFTR-ND	2-Input OR Gate*	5-SSOP		243.00/3,000	
TC7SH86FCT-ND	Single VHS Exclusive OR Gate	5-SSOP	.36	.29	.20
TC7SH86FFCT-ND	Exclusive OR Gate*	5-SSOP	.36	.29	.20
TC7SH86FFTR-ND	Exclusive OR Gate*	5-SSOP		243.00/3,000	
TC7SH86FUTCT-ND	Single VHS Exclusive OR Gate	5-SSOP	.36	.29	.20
TC7SH86FUTFCT-ND	Exclusive OR Gate*	5-SSOP	.36	.29	.20
TC7SH86FUTFTR-ND	Exclusive OR Gate*	5-SSOP		243.00/3,000	
TC7SL00FUTCT-ND	Single 1 Volt NAND Gate	5-SSOP	.29	.24	.17
TC7SL00FUTFCT-ND	2-Input NAND Gate*	5-SSOP	.36	.29	.20
TC7SL00FUTFTR-ND	2-Input NAND Gate*	5-SSOP		243.00/3,000	
TC7SL04FUTFCT-ND	Single 1 Volt Inverter*	5-SSOP	.36	.29	.20
TC7SL04FUTFTR-ND	Single 1 Volt Inverter*	5-SSOP		243.00/3,000	
TC7SL08FUTFCT-ND	Single 1 Volt AND Gate*	5-SSOP	.36	.29	.20
TC7SL08FUTFTR-ND	Single 1 Volt AND Gate*	5-SSOP		243.00/3,000	
TC7SL32FUTCT-ND	Single 1 Volt OR Gate	5-SSOP	.36	.29	.20
TC7SLU04FUTCT-ND	Single 1 Volt Unbuffered Inverter	5-SSOP	.29	.24	.17
TC7SLU04FUTTR-ND	Single 1 Volt Unbuffered Inverter	5-SSOP		229.50/3,000	
TC7SLU04FUTFCT-ND	Single 1 Volt Unbuffered Inverter*	5-SSOP	.36	.29	.20
TC7SLU04FUTFTR-ND	Single 1 Volt Unbuffered Inverter*	5-SSOP		243.00/3,000	
TC7SU04FFCT-ND	Single Inverter (74HCU04)*	5-SSOP	.36	.29	.20
TC7SU04FFTR-ND	Single Inverter (74HCU04)*	5-SSOP		243.00/3,000	
TC7SZ00FCT-ND	2-Input NAND Gate	5-SSOP	.36	.29	.20
TC7SZ00FFCT-ND	2-Input NAND Gate*	5-SSOP	.36	.29	.20
TC7SZ00FFTR-ND	2-Input NAND Gate*	5-SSOP		243.00/3,000	
TC7SZ00FUTCT-ND	2-Input NAND Gate	5-SSOP	.31	.25	.17
TC7SZ00FUTFCT-ND	2-Input NAND Gate*	5-SSOP	.38	.30	.21
TC7SZ00FUTFTR-ND	2-Input NAND Gate*	5-SSOP		253.80/3,000	
TC7SZ02FCT-ND	2-Input NOR Gate	5-SSOP	.38	.30	.21
TC7SZ02FTR-ND	2-Input NOR Gate	5-SSOP		253.80/3,000	
TC7SZ04FFCT-ND	Single Inverter Gate*	5-SSOP	.36	.29	.20
TC7SZ04FFTR-ND	Single Inverter Gate*	5-SSOP		243.00/3,000	
TC7SZ04FUTFCT-ND	Single Inverter Gate*	5-SSOP	.38	.30	.21
TC7SZ04FUTFTR-ND	Single Inverter Gate*	5-SSOP		253.80/3,000	
TC7SZ05FCT-ND	Inverter (Open Drain)	5-SSOP	.38	.30	.21
TC7SZ05FUTCT-ND	Inverter (Open Drain)	5-SSOP	.38	.30	.21
TC7SZ05FUTFCT-ND	Inverter (Open Drain)*	5-SSOP	.38	.30	.21
TC7SZ05FUTFTR-ND	Inverter (Open Drain)*	5-SSOP		253.80/3,000	
TC7SZ08FCT-ND	2-Input AND Gate	5-SSOP	.36	.29	.20
TC7SZ08FFCT-ND	2-Input AND Gate*	5-SSOP	.36	.29	.20
TC7SZ08FFTR-ND	2-Input AND Gate*	5-SSOP		243.00/3,000	
TC7SZ08FUTFCT-ND	2-Input AND Gate*	5-SSOP	.32	.25	.18
TC7SZ08FUTFTR-ND	2-Input AND Gate*	5-SSOP		216.00/3,000	
TC7SZ32FCT-ND	2-Input OR Gate	5-SSOP	.32	.25	.18
TC7SZ32FFCT-ND	2-Input OR Gate*	5-SSOP	.32	.25	.18
TC7SZ32FFTR-ND	2-Input OR Gate*	5-SSOP		216.00/3,000	
TC7SZ32FUTCT-ND	2-Input OR Gate	5-SSOP	.36	.29	.20
TC7SZ32FUTFCT-ND	2-Input OR Gate*	5-SSOP	.32	.25	.18
TC7SZ32FUTFTR-ND	2-Input OR Gate*	5-SSOP		216.00/3,000	
TC7SZ125FCT-ND	Bus Buffer Tri-State Output	5-SSOP	.38	.30	.21
TC7SZ125FFCT-ND	Bus Buffer Tri-State Output*	5-SSOP	.36	.29	.20
TC7SZ125FFTR-ND	Bus Buffer Tri-State Output*	5-SSOP		259.20/3,000	
TC7SZ125FUTFCT-ND	Bus Buffer Tri-State Output*	5-SSOP	.32	.25	.18
TC7SZ125FUTFTR-ND	Bus Buffer Tri-State Output*	5-SSOP		216.00/3,000	
TC7SZ126FUTCT-ND	Bus Buffer Tri-State Output	5-SSOP	.36	.29	.20
TC7SZ126FUTFCT-ND	Bus Buffer Tri-State Output*	5-SSOP	.36	.29	.20
TC7SZ126FUTFTR-ND	Bus Buffer Tri-State Output*	5-SSOP		243.00/3,000	
TC7SZU04FCT-ND	Inverter (Unbuffered)	5-SSOP	.36	.29	.20
TC7SZU04FFCT-ND	Inverter (Unbuffered)*	5-SSOP	.36	.29	.20
TC7SZU04FFTR-ND	Inverter (Unbuffered)*	5-SSOP		243.00/3,000	
TC7SZU04FUTFCT-ND	Inverter (Unbuffered)*	5-SSOP	.32	.25	.18
TC7SZU04FUTFTR-ND	Inverter (Unbuffered)*	5-SSOP		216.00/3,000	
TC7W00FFCT-ND	Dual 2-Input NAND Gate (74HC00)	8-SOP	.36	.27	.21
TC7W00FFTR-ND	Dual 2-Input NAND Gate (74HC00)	8-SOP		119.70/1,000	
TC7W00FFCT-ND	Dual 2-Input NAND Gate (74HC00)*	8-SOP	.36	.27	.21
TC7W00FFTR-ND	Dual 2-Input NAND Gate (74HC00)*	8-SOP		119.70/1,000	
TC7W00FKFCT-ND	Dual 2-Input NAND Gate*	8-SSOP	.47	.38	.29
TC7W00FKFTR-ND	Dual 2-Input NAND Gate*	8-SSOP		380.70/3,000	
TC7W00FUTCT-ND	Dual 2-Input NAND Gate	8-SSOP	.45	.36	.27
TC7W00FUTTR-ND	Dual 2-Input NAND Gate	8-SSOP		364.50/3,000	
TC7W00FUTFCT-ND	Dual 2-Input NAND Gate*	8-SSOP	.45	.36	.27
TC7W00FUTFTR-ND	Dual 2-Input NAND Gate*	8-SSOP		364.50/3,000	
TC7W02FUTFCT-ND	Dual 2-Input NOR Gate*	8-SSOP	.45	.36	.27
TC7W02FUTFTR-ND	Dual 2-Input NOR Gate*	8-SSOP		364.50/3,000	

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TOSHIBA

TC7W SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC7W04FFCT-ND	Triple Inverter (74HC04)*	8-SOP	.45	.36	.27
TC7W04FFTR-ND	Triple Inverter (74HC04)*	8-SOP	126.00/1,000		
TC7W04FKCT-ND	Triple Inverter (74HC04)	8-SSOP	.38	.29	.22
TC7W04FKFCT-ND	Triple Inverter (74HC04)*	8-SSOP	.47	.38	.29
TC7W04FKFTR-ND	Triple Inverter (74HC04)*	8-SSOP	380.70/3,000		
TC7W04FUTFTR-ND	Triple Inverter (74HC04)*	8-SSOP	364.50/3,000		
TC7W08FFCT-ND	Dual 2-Input AND Gate (74HC08)*	8-SOP	.45	.36	.27
TC7W08FFTR-ND	Dual 2-Input AND Gate (74HC08)*	8-SOP	126.00/1,000		
TC7W08FKCT-ND	Dual 2-Input AND Gate (74HC08)	8-SSOP	.38	.29	.22
TC7W08FKFCT-ND	Dual 2-Input AND Gate (74HC08)*	8-SSOP	.47	.38	.29
TC7W08FKFTR-ND	Dual 2-Input AND Gate (74HC08)*	8-SSOP	380.70/3,000		
TC7W08FUTFCT-ND	Dual 2-Input AND Gate (74HC08)*	8-SSOP	.45	.36	.27
TC7W08FUTFTR-ND	Dual 2-Input AND Gate (74HC08)*	8-SSOP	364.50/3,000		
TC7W14FKFCT-ND	Schmitt Inverter*	8-SSOP	.47	.38	.29
TC7W14FKFTR-ND	Schmitt Inverter*	8-SSOP	380.70/3,000		
TC7W32FCT-ND	Dual 2-Input OR Gate (74HC32)	8-SOP	.45	.36	.27
TC7W32FTR-ND	Dual 2-Input OR Gate (74HC32)	8-SOP	126.00/1,000		
TC7W32FFCT-ND	Dual 2-Input OR Gate (74HC32)*	8-SOP	.45	.36	.27
TC7W32FFTR-ND	Dual 2-Input OR Gate (74HC32)*	8-SOP	126.00/1,000		
TC7W32FKCT-ND	Dual 2-Input OR Gate (74HC32AP/F)	8-SSOP	.47	.38	.29
TC7W32FKFCT-ND	Dual 2-Input OR Gate (74HC32AP/F)*	8-SSOP	.47	.38	.29
TC7W32FKFTR-ND	Dual 2-Input OR Gate (74HC32AP/F)*	8-SSOP	380.70/3,000		
TC7W32FUTFCT-ND	Dual 2-Input OR Gate (74HC32AP/F)*	8-SSOP	.45	.36	.27
TC7W32FUTFTR-ND	Dual 2-Input OR Gate (74HC32AP/F)*	8-SSOP	364.50/3,000		
TC7W34FKCT-ND	Triple Non-Inverting Buffer (TC7W34FU)	8-SSOP	.47	.38	.29
TC7W34FKFCT-ND	Triple Non-Inverting Buffer (TC7W34FU)*	8-SSOP	.47	.38	.29
TC7W34FKFTR-ND	Triple Non-Inverting Buffer (TC7W34FU)*	8-SSOP	380.70/3,000		
TC7W53FKCT-ND	2-Channel Multiplexer/Demultiplexer	8-SSOP	.47	.38	.29
TC7W53FKFCT-ND	2-Channel Multiplexer/Demultiplexer*	8-SSOP	.47	.38	.29
TC7W53FKFTR-ND	2-Channel Multiplexer/Demultiplexer*	8-SSOP	380.70/3,000		
TC7W66FUTFCT-ND	Dual Bilateral Switch*	8-SSOP	.45	.36	.27
TC7W74FKCT-ND	D-Type Flip-Flop with Preset and Clear	8-SSOP	.47	.38	.29
TC7W74FKFCT-ND	D-Type Flip-Flop with Preset and Clear*	8-SSOP	.47	.38	.29
TC7W74FKFTR-ND	D-Type Flip-Flop with Preset and Clear*	8-SSOP	380.70/3,000		
TC7W74FUTFCT-ND	D-Type Flip-Flop*	8-SSOP	.45	.36	.27
TC7W74FUTFTR-ND	D-Type Flip-Flop*	8-SSOP	364.50/3,000		
TC7W125FUTFCT-ND	Dual Bus Buffer	8-SSOP	.45	.36	.27
TC7W125FUTFTR-ND	Dual Bus Buffer	8-SSOP	364.50/3,000		
TC7W125FUTFCT-ND	Dual Bus Buffer*	8-SSOP	.45	.36	.27
TC7W125FUTFTR-ND	Dual Bus Buffer*	8-SSOP	364.50/3,000		
TC7W126FUTCT-ND	Dual Bus Buffer	8-SSOP	.45	.36	.27
TC7W126FUTFCT-ND	Dual Bus Buffer*	8-SSOP	.45	.36	.27
TC7W126FUTFTR-ND	Dual Bus Buffer*	8-SSOP	364.50/3,000		
TC7WH00FUTCT-ND	Dual 2-Input NAND Gate	8-SSOP	.45	.36	.27
TC7WH00FUTFCT-ND	Dual 2-Input NAND Gate*	8-SSOP	.45	.36	.27
TC7WH00FUTFTR-ND	Dual 2-Input NAND Gate*	8-SSOP	364.50/3,000		
TC7WH04FKCT-ND	Triple Inverter	8-SSOP	.47	.38	.29
TC7WH04FKFCT-ND	Triple Inverter*	8-SSOP	.47	.38	.29
TC7WH04FKFTR-ND	Triple Inverter*	8-SSOP	380.70/3,000		
TC7WH04FUTCT-ND	Triple Inverter	8-SSOP	.36	.27	.21
TC7WH04FUTFCT-ND	Triple Inverter*	8-SSOP	.45	.36	.27
TC7WH04FUTFTR-ND	Triple Inverter*	8-SSOP	364.50/3,000		
TC7WH14FUTCT-ND	Triple Schmitt Inverter	8-SSOP	.45	.36	.27
TC7WH14FUTFCT-ND	Triple Schmitt Inverter*	8-SSOP	.45	.36	.27
TC7WH14FUTFTR-ND	Triple Schmitt Inverter*	8-SSOP	364.50/3,000		
TC7WH32FKFCT-ND	Dual 2-Input OR Gate*	8-SSOP	.47	.38	.29
TC7WH32FKFTR-ND	Dual 2-Input OR Gate*	8-SSOP	380.70/3,000		
TC7WH32FUTCT-ND	Dual 2-Input OR Gate	8-SSOP	.45	.36	.27
TC7WH74FKCT-ND	D-Type Flip-Flop with Preset and Clear	US8-8	.47	.38	.29
TC7WH74FKFCT-ND	D-Type Flip-Flop with Preset and Clear*	US8-8	.47	.38	.29
TC7WH74FKFTR-ND	D-Type Flip-Flop with Preset and Clear*	US8-8	380.70/3,000		
TC7WH74FUTFCT-ND	D-Type Flip-Flop with Preset and Clear*	SM8-8	.45	.36	.27
TC7WH74FUTFTR-ND	D-Type Flip-Flop with Preset and Clear*	SM8-8	364.50/3,000		
TC7WH123FKFCT-ND	Monostable Multivibrator*	US8-8	.47	.38	.29
TC7WH123FKFTR-ND	Monostable Multivibrator*	US8-8	380.70/3,000		
TC7WH123FUTFCT-ND	Monostable Multivibrator*	SM8-8	.45	.36	.27
TC7WH123FUTFTR-ND	Monostable Multivibrator*	SM8-8	364.50/3,000		
TC7WH125FKCT-ND	Dual Bus Buffer	US8-8	.47	.38	.29
TC7WH125FKFCT-ND	Dual Bus Buffer*	US8-8	.47	.38	.29
TC7WH125FKFTR-ND	Dual Bus Buffer*	US8-8	380.70/3,000		
TC7WH126FKCT-ND	Dual Bus Buffer	US8-8	.47	.38	.29
TC7WH157FKCT-ND	2-Channel Multiplexer	US8-8	.47	.38	.29
TC7WH157FKTR-ND	2-Channel Multiplexer	US8-8	380.70/3,000		
TC7WH157FKFCT-ND	2-Channel Multiplexer*	US8-8	.47	.38	.29
TC7WH157FKFTR-ND	2-Channel Multiplexer*	US8-8	380.70/3,000		
TC7WH157FUTCT-ND	2-Channel Multiplexer	SM8-8	.45	.36	.27
TC7WH157FUTFCT-ND	2-Channel Multiplexer*	SM8-8	.45	.36	.27
TC7WH157FUTFTR-ND	2-Channel Multiplexer*	SM8-8	364.50/3,000		
TC7WH240FKCT-ND	Dual Bus Buffer Inverted, Tri-State Output	US8-8	.47	.38	.29
TC7WH241FKCT-ND	Dual Bus Buffer Non-Inverted, Tri-State Output	US8-8	.47	.38	.29
TC7WH241FKTR-ND	Dual Bus Buffer Non-Inverted, Tri-State Output	US8-8	380.70/3,000		
TC7WH241FKFCT-ND	Dual Bus Buffer Non-Inverted, Tri-State Output*	US8-8	.47	.38	.29
TC7WH241FKFTR-ND	Dual Bus Buffer Non-Inverted, Tri-State Output*	US8-8	380.70/3,000		
TC7WH241FUTCT-ND	Dual Bus Buffer Non-Inverted, Tri-State Output	SM8-8	.45	.36	.27
TC7WH241FUTFCT-ND	Dual Bus Buffer Non-Inverted, Tri-State Output*	SM8-8	.45	.36	.27
TC7WH241FUTFTR-ND	Dual Bus Buffer Non-Inverted, Tri-State Output*	SM8-8	364.50/3,000		
TC7WHU04FKCT-ND	Triple Inverter	8-SSOP	.47	.38	.29
TC7WHU04FUTCT-ND	Triple Inverter	8-SSOP	.45	.36	.27
TC7WHU04FUTFCT-ND	Triple Inverter*	8-SSOP	.45	.36	.27
TC7WHU04FUTFTR-ND	Triple Inverter*	8-SSOP	364.50/3,000		
TC7WT125FUTCT-ND	Dual Bus Buffer	SM8-8	.55	.44	.33
TC7WT125FUTFCT-ND	Dual Bus Buffer*	SM8-8	.55	.44	.33
TC7WT125FUTFTR-ND	Dual Bus Buffer*	SM8-8	445.50/3,000		
TC7WU04FCT-ND	Triple Inverter (74HCU04)	8-SOP	.45	.36	.27
TC7WU04FFCT-ND	Triple Inverter (74HCU04)*	8-SOP	.45	.36	.27
TC7WU04FFTR-ND	Triple Inverter (74HCU04)*	8-SOP	126.00/1,000		
TC7WU04FKCT-ND	Triple Inverter	8-SSOP	.47	.38	.29
TC7WU04FKFCT-ND	Triple Inverter*	8-SSOP	.47	.38	.29
TC7WU04FKFTR-ND	Triple Inverter*	8-SSOP	380.70/3,000		
TC7WU04FUTCT-ND	Triple Inverter	8-SSOP	.45	.36	.27
TC7WU04FUTFCT-ND	Triple Inverter*	8-SSOP	.45	.36	.27
TC7WU04FUTFTR-ND	Triple Inverter*	8-SSOP	364.50/3,000		

TOSHIBA

4-CHANNEL DARLINGTON SINK DRIVERS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62064AFG-ND	TTL, 5V, CMOS Input - 1.5A @ 50V, Vce Output	16-SOP	1.55	1.24	.93
TD62064APG-ND	TTL, 5V, CMOS Input - 1.5A @ 50V, Vce Output	16-Dip	1.38	1.15	.92
TD62064BPG-1-ND	TTL, 5V, CMOS Input - 1.5A @ 80V, Vce Output	16-Dip	1.20	1.00	.80

TOSHIBA

7-CHANNEL DARLINGTON SINK DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62001AFELCT-ND	General Purpose Input - 0.5A @ 50V, Vce Output	16-SOP	.84	.63	.48
TD62001AFELTR-ND	General Purpose Input - 0.5A @ 50V, Vce Output	16-SOP	546.00/2,000		
TD62001AFGELCT-ND	General Purpose Input - 0.5A @ 50V, Vce Output*	16-SOP	.92	.69	.52
TD62001AFGELTR-ND	General Purpose Input - 0.5A @ 50V, Vce Output*	16-SOP	611.80/2,000		
TD62001APG-ND	General Purpose Input - 0.5A @ 50V, Vce Output*	16-Dip	.68	.51	.39
TD62002AFGELCT-ND	14V to 25V, PMOS Input - 0.5A @ 50V, Vce Output*	16-SOP	.84	.63	.48
TD62002AFGELTR-ND	14V to 25V, PMOS Input - 0.5A @ 50V, Vce Output*	16-SOP	558.60/2,000		
TD62002APG-ND	14V to 25V, PMOS Input - 0.5A @ 50V, Vce Output*	16-Dip	.72	.54	.41
TD62003AFGCT-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output*	16-SOP	.88	.66	.50
TD62003AFGTR-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output*	16-SOP	585.20/2,000		
TD62003APG-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output*	16-Dip	.64	.48	.36
TD62004AFG5S-ND	6V to 15V, PMOS Input - 0.5A @ 50V, Vce Output*	16-SOP	.88	.66	.50
TD62004APG-ND	6V to 15V, PMOS Input - 0.5A @ 50V, Vce Output*	16-Dip	.64	.48	.36
ULN2003AFWG-ND	TTL, 5V CMOS 0.5A @ 50V, Vce Output*	16-SOL	.64	.48	.36
ULN2003APG-ND	TTL, 5V CMOS 0.5A @ 50V, Vce Output*	16-Dip	.55	.44	.33
ULN2004AFWG-ND	6V to 15V PMOS, CMOS 0.5A @ 50V, Vce Output*	16-SOL	.55	.44	.33
ULN2004APG-ND	6V to 15V PMOS, CMOS 0.5A @ 50V, Vce Output*	16-Dip	.55	.44	.33

TOSHIBA

8-CHANNEL DARLINGTON SINK DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62081AF-ND	General Purpose Input, 0.5A @ 50V, Vce Output	18-SOP	.88	.66	.50
TD62081AFGCT-ND	General Purpose Input, 0.5A @ 50V, Vce Output*	18-SOP	.78	.65	.52
TD62081AFGTR-ND	General Purpose Input, 0.5A @ 50V, Vce Output*	18-SOP	691.60/2,000		
TD62082AFGCT-ND	14V to 25V, PMOS Input, 0.5A @ 50V, Vce Output*	18-SOP	.75	.63	.50
TD62082AFGTR-ND	14V to 25V, PMOS Input, 0.5A @ 50V, Vce Output*	18-SOP	332.50/1,000		
TD62082APG-ND	14V to 25V, PMOS Input, 0.5A @ 50V, Vce Output*	18-Dip	.84	.63	.48
TD62083AFG5S-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	.75	.63	.50
TD62083AFNGCT-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output*	18-SSOP	.96	.80	.64
TD62083AFNGTR-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output*	18-SSOP	851.20/2,000		
TD62083AP-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	.72	.54	.41
TD62083APG-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output*	18-Dip	.80	.60	.45
TD62084AFG-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	.96	.72	.54
TD62084AFGCT-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-SOP	.96	.72	.54
TD62084AFGTR-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-SOP	319.20/1,000		
TD62084AFNGCT-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-SSOP	1.11	.93	.74
TD62084AFNGTR-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-SSOP	984.20/2,000		
TD62084APG-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-Dip	.88	.66	.50
ULN2803AFWG-ND	TTL, 5V CMOS Input, 0.5A @ 50V, Vce Output*	18-SOL	.84	.63	.48
ULN2803APG-ND	TTL, 5V CMOS Input, 0.5A @ 50V, Vce Output*	18-Dip	.72	.54	.41
ULN2804AFWG-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-SOL	.84	.63	.48
ULN2804APG-ND	6V to 15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output*	18-Dip	.76	.57	.43

TOSHIBA

8-CHANNEL DARLINGTON SOURCE DRIVERS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62783AFG-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	1.63	1.30	.98
TD62783AFNG-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-SSOP	1.43	1.14	.86
TD62783APG-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	1.38	1.10	.83
TD62784APG-ND	6V to 15V, PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	1.40	1.12	.84

TOSHIBA

LED DRIVERS/DC-to-DC

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TB62736FUGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	.70	.53	.40
TB62736FUGTR-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	682.50/3,000		
TB62737FPGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-LLP	.70	.53	.40
TB62737FPGTR-ND	Step-Up Type DC/DC Converter for White LEDs	6-LLP	1115.63/5,000		
TB62737FUGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	.60	.45	.34
TB62737FUGTR-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	585.00/3,000		
TB62752AFUGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	.76	.57	.43
TB62752AFUGTR-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	741.00/3,000		
TB62752BFUGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	.76	.57	.43
TB62752BFUGTR-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	741.00/3,000		
TB62754AFNGCT-ND	Step-Up Type DC/DC Controller, Built-In 6-Channel Sink Driver for White LEDs	20-SSOP	1.48	1.18	.89
TB62754AFNGTR-ND	Step-Up Type DC/DC Controller, Built-In 6-Channel Sink Driver for White LEDs	20-SSOP	1534.00/2,000		
TB62755FPGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-PLP	.76	.57	.43
TB62755FPGTR-ND	Step-Up Type DC/DC Converter for White LEDs	6-PLP	1211.25/5,000		
TB62756FUGCT-ND	Constant-Current Step-Up DC/DC Converter	SOT-23-6	.72	.54	.41
TB62756FUGTR-ND	Constant-Current Step-Up DC/DC Converter	SOT-23-6	702.00/3,000		
TB62757FUGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	.72	.54	.41
TB62757FUGTR-ND	Step-Up Type DC/DC Converter for White LEDs	6-SSOP	702.00/3,000		
TB62757FPGCT-ND	Step-Up Type DC/DC Converter for White LEDs	6-PLP	.76	.57	.43
TB62757FPGTR-ND	Step-Up Type DC/DC Converter for White LEDs	6-PLP	1211.25/5,000		
TCA62723FMGCT-ND	3-Channel Constant-Current LED Driver	10-SON	.96	.80	.64
TCA62723FMGTR-ND	3-Channel Constant-Current LED Driver	10-SON	1248.00/3,000		
TCA62724FMGCT-ND	3-Channel Constant-Current LED Driver	10-SON	.96	.80	.64
TCA62724FMGTR-ND	3-Channel Constant-Current LED Driver	10-SON	1248.00/3,000		
TCA62753FUGCT-ND	Charge Pump Type DC/DC Converter for White LED Driver	6-SSOP	.72	.54	.41
TCA62753FUGTR-ND	Charge Pump Type DC/DC Converter for White LED Driver	6-SSOP	702.00/3,000		

* *RoHS Compliant*

TOSHIBA

MOTOR DRIVERS/CONTROLLERS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TA7267BP5-ND	Full-Bridge Driver, H-Switch, for DC Motor	7-HSIP	1.80	1.44	1.08
TA7288P5-ND	Sequential Dual-Bridge Driver for DC Motor	10-HSIP	1.53	1.22	.92
TA7291FGCT-ND	4-Mode Bridge Driver with Output Voltage Control	16-HSOP	1.47	1.23	.98
TA7291FGTR-ND	4-Mode Bridge Driver with Output Voltage Control	16-HSOP	977.55/1,500		
TA7291P5-ND	4-Mode Bridge Driver with Output Voltage Control	10-HSIP	1.47	1.23	.98
TA7291SG5J-ND	4-Mode Bridge Driver with Output Voltage Control	9-SIP	.90	.75	.60
TA7774FGCT-ND	2-Phase Bipolar Stepping Motor Driver	16-HSOP	1.43	1.14	.86
TA7774FGTR-ND	2-Phase Bipolar Stepping Motor Driver	16-HSOP	1111.50/1,500		
TA7774PG5J-ND	2-Phase Bipolar Stepping Motor Driver	16-Dip	1.41	1.18	.94
TA8409FGCT-ND	4-Mode Bridge Driver with Output Voltage Control	10-SSOP	1.05	.88	.70
TA8409FGTR-ND	4-Mode Bridge Driver with Output Voltage Control	10-SSOP	931.00/2,000		
TA8409SG5J-ND	4-Mode Bridge Driver with Output Voltage Control	9-SIP	.81	.68	.54
TA8428FGCT-ND	Full-Bridge Driver for Brush Motor Rotation Control	20-HSOP	2.36	1.89	1.47
TA8428FGTR-ND	Full-Bridge Driver for Brush Motor Rotation Control	20-HSOP	1338.75/1,000		
TA8428K5S-ND	Full-Bridge Driver for Brush Motor Rotation Control	7-HSIP	2.33	1.86	1.40
TA8429HQ5-ND	Full-Bridge Driver, H-Switch, for DC Motor	12-HZIP	3.80	3.05	2.37
TA8435HQ5-ND	PWM Chopper Type Bipolar Stepping Motor Driver	25-HZIP	5.50	4.40	3.72
TA8440HQ5-ND	Full-Bridge Driver, H-Switch, for DC Motor	12-HZIP	4.05	3.24	2.52
TA84002FGCT-ND	PWM Chopper Type 2-Phase Bipolar Stepping Motor Driver	20-HSOP	2.48	1.98	1.49
TA84002FGTR-ND	PWM Chopper Type 2-Phase Bipolar Stepping Motor Driver	20-HSOP	1287.00/1,000		
TA84006FGCT-ND	3-Phase Wave Motor Driver	30-SSOP	1.80	1.44	1.08
TA84006FGTR-ND	3-Phase Wave Motor Driver	30-SSOP	936.00/1,000		
TA84007PQ-ND	DC Motor Full Bridge Driver	10-HSIP	1.38	1.10	.83
TA84007FGCT-ND	DC Motor Full Bridge Driver	16-HSOP	1.40	1.12	.84
TA84007FGTR-ND	DC Motor Full Bridge Driver	16-HSOP	1092.00/1,500		
TA84007SG-ND	DC Motor Full Bridge Driver	9-SIP	1.08	.90	.72
TB6537FGCT-ND	3-Phase Full-Wave Sensorless Controller	24-SSOP	1.75	1.40	1.05
TB6537FGTR-ND	3-Phase Full-Wave Sensorless Controller	24-SSOP	1820.00/2,000		
TB6537PGJ-ND	3-Phase Full-Wave Sensorless Controller	18-Dip	1.68	1.34	1.01
TB6539FGCT-ND	3-Phase Full-Wave, Sine-Wave PWM Brushless Motor Controller	30-SSOP	3.94	3.15	2.45
TB6539FGTR-ND	3-Phase Full-Wave, Sine-Wave PWM Brushless Motor Controller	30-SSOP	4462.50/2,000		
TB6539NG-ND	3-Phase Full-Wave, Sine-Wave PWM Brushless Motor Controller	24-SDip	5.14	4.12	3.47
TB6548FG-ND	3-Phase Full-Wave PWM Sensorless Controller	24-SSOP	2.33	1.86	1.40
TB6549FGCT-ND	Full-Bridge Driver IC for DC Motors	20-HSOP	3.04	2.43	1.89
TB6549FGTR-ND	Full-Bridge Driver IC for DC Motors	20-HSOP	1721.25/1,000		
TB6549HQ-ND	Full-Bridge Driver IC for DC Motors	25-HZIP	3.87	3.10	2.41
TB6549PG-ND	Full-Bridge Driver IC for DC Motors	16-Dip	4.16	3.33	2.59
TB6551FGCT-ND	3-Phase Full-Wave, Sine-Wave PWM Brushless Motor Controller	24-SSOP	2.43	1.94	1.46
TB6551FGTR-ND	3-Phase Full-Wave, Sine-Wave PWM Brushless Motor Controller	24-SSOP	2522.00/2,000		
TB6552FLGCT-ND	Dual Bridge Driver IC for DC Motors	24-QON	1.63	1.30	.98
TB6552FLGTR-ND	Dual Bridge Driver IC for DC Motors	24-QON	1690.00/2,000		
TB6552FNGCT-ND	Dual Bridge Driver IC for DC Motors	16-SSOP	1.25	1.00	.75
TB6552FNGTR-ND	Dual Bridge Driver IC for DC Motors	16-SSOP	1300.00/2,000		
TB6555FLGCT-ND	Dual Bridge Driver IC for DC Motors	36-QON	2.36	1.89	1.47
TB6555FLGTR-ND	Dual Bridge Driver IC for DC Motors	36-QON	2677.50/2,000		
TB6556FGCT-ND	3-Phase Full-Wave, Sine-Wave PWM Brushless Motor Controller	30-SSOP	2.32	1.86	1.45
TB6556FGTR-ND	3-Phase Full-Wave, Sine-Wave PWM Brushless Motor Controller	30-SSOP	1313.25/1,000		
TB6557FLGCT-ND	DC Motor Driver	36-QON	2.32	1.86	1.45
TB6557FLGTR-ND	DC Motor Driver	36-QON	2626.50/2,000		
TB6558FLGCT-ND	Constant Current Driver, PWM Chopper Control	24-QON	2.00	1.60	1.20
TB6558FLGTR-ND	Constant Current Driver, PWM Chopper Control	24-QON	2080.00/2,000		
TB6559FGCT-ND	Full-Bridge DC Motor Driver	16-HSOP	1.53	1.22	.92
TB6559FGTR-ND	Full-Bridge DC Motor Driver	16-HSOP	1189.50/1,500		
TB6560FG-ND	Stepping Motor Driver	64-HQFP	4.30	3.44	2.68
TB6560HQ-ND	Stepping Motor Driver	25-HZIP	3.84	3.08	2.60
TB6561FGCT-ND	Dual Full-Bridge Driver	30-SSOP	2.36	1.89	1.47
TB6561FGTR-ND	Dual Full-Bridge Driver	30-SSOP	2677.50/2,000		
TB6561NG-ND	Dual Full-Bridge Driver	24-SDip	3.15	2.52	1.96
TB6562AFGCT-ND	Dual Full-Bridge Driver IC for Stepping Motors	30-SSOP	2.30	1.84	1.43
TB6562AFGTR-ND	Dual Full-Bridge Driver IC for Stepping Motors	30-SSOP	1300.50/1,000		
TB6562ANG-ND	Dual Full-Bridge Driver IC for Stepping Motors	24-SDip	3.17	2.54	1.98
TB6571FGCT-ND	30V Brushless DC Motor Controller/Driver	52-QFP	2.15	1.72	1.29
TB6571FGTR-ND	30V Brushless DC Motor Controller/Driver	52-QFP	928.80/800		
TB6575FNGCT-ND	PWM Sensorless Controller for 3-Phase Full-Wave BLDC Motor	24-SSOP	1.90	1.52	1.14
TB6575FNGTR-ND	PWM Sensorless Controller for 3-Phase Full-Wave BLDC Motor	24-SSOP	1976.00/2,000		
TB6581HG-ND	3-Phase Full-Wave, Sine-Wave PWM Brushless Motor Controller	25-HZIP	7.00	5.60	4.73
TB6582FG-ND	PWM Type, Sine-Wave Current, and Sensorless 3-Phase Full-Wave Brushless Motor Controller	52-QFP	2.63	2.11	1.64
TB6586AFGCT-ND	3-Phase Full-Wave Brushless Motor Controller	24-SSOP	1.33	1.06	.80
TB6586AFGTR-ND	3-Phase Full-Wave Brushless Motor Controller	24-SSOP	1378.00/2,000		
TB6586FGCT-ND	3-Phase Full-Wave Brushless Motor Controller	24-SSOP	1.38	1.10	.83
TB6586FGTR-ND	3-Phase Full-Wave Brushless Motor Controller	24-SSOP	1430.00/2,000		
TB6588FGOELJUCT-ND	3-Phase Full-Wave PWM Driver for Sensorless DC Motors ***NEW!***	36-HSOP	3.56	2.85	2.22
TB6588FGOELJUTR-ND	3-Phase Full-Wave PWM Driver for Sensorless DC Motors ***NEW!***	36-HSOP	2014.50/1,000		
TB6590FTGCT-ND	Direct PWM Brushed DC Motor Driver	16-VQON	.96	.80	.64
TB6590FTGTR-ND	Direct PWM Brushed DC Motor Driver	16-VQON	851.20/2,000		
TB6591FLGCT-ND	Direct PWM/Constant Current PWM Brushed DC Motor Driver	48-QON	2.57	2.06	1.60
TB6591FLGTR-ND	Direct PWM/Constant Current PWM Brushed DC Motor Driver	48-QON	2907.00/2,000		
TB6592FLGCT-ND	Dual-Bridge Driver IC for DC Motors	24-QON	1.75	1.40	1.05
TB6592FLGTR-ND	Dual-Bridge Driver IC for DC Motors	24-QON	1820.00/2,000		
TB6593FNGCT-ND	Driver IC for DC Motor	20-SSOP	1.63	1.30	.98
TB6593FNGTR-ND	Driver IC for DC Motor	20-SSOP	1690.00/2,000		
TB6594FLGCT-ND	Dual DC Motor Driver with Built-In DC/DC Converter	24-QON	2.08	1.66	1.25
TB6594FLGTR-ND	Dual DC Motor Driver with Built-In DC/DC Converter	24-QON	2158.00/2,000		
TB6595FLGCT-ND	Dual-Bridge Driver IC for DC Motors	36-QON	2.40	1.92	1.44
TB6595FLGTR-ND	Dual-Bridge Driver IC for DC Motors	36-QON	2496.00/2,000		
TB6596FLGCT-ND	DC Motor Driver, Stepping Motor Driver	36-QON	2.03	1.62	1.22
TB6596FLGTR-ND	DC Motor Driver, Stepping Motor Driver	36-QON	2106.00/2,000		
TB6598FNGCT-ND	Dual Full-Bridge Driver for Stepping Motors	16-SSOP	1.38	1.10	.83
TB6598FNGTR-ND	Dual Full-Bridge Driver for Stepping Motors	16-SSOP	1430.00/2,000		
TB6607FLGCT-ND	DC Motor Driver	36-QON	1.98	1.58	1.19
TB6607FLGTR-ND	DC Motor Driver	36-QON	2054.00/2,000		
TB6608FNGCT-ND	Stepping Motor Driver	20-SSOP	1.93	1.54	1.16
TB6608FNGTR-ND	Stepping Motor Driver	20-SSOP	2002.00/2,000		
TB6612FNGCT-ND	Driver IC for Dual DC Motor	24-SSOP	1.48	1.18	.89
TB6612FNGTR-ND	Driver IC for Dual DC Motor	24-SSOP	1534.00/2,000		
TB6613FTGCT-ND	DC Motor Driver, Stepping Motor Driver	44-VQON	2.70	2.16	1.68
TB6613FTGTR-ND	DC Motor Driver, Stepping Motor Driver	44-VQON	3060.00/2,000		
TB62206FGCT-ND	BiCD PWM 2-Phase Bipolar Stepping Motor Driver	20-HSOP	2.48	1.98	1.49
TB62206FGTR-ND	BiCD PWM 2-Phase Bipolar Stepping Motor Driver	20-HSOP	1287.00/1,000		
TB62209FGCT-ND	Stepping Motor Driver IC using PWM Chopper Type	36-HSOP	3.42	2.74	2.13
TB62209FGTR-ND	Stepping Motor Driver IC using PWM Chopper Type	36-HSOP	1938.00/1,000		

TOSHIBA

LINEAR SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
	Amplifiers				
TC75S54FCT-ND	Single Op Amp	SMV-5	.72	.55	.41
TC75S54FTR-ND	Single Op Amp	SMV-5	705.90/3,000		
TC75W51FUTCT-ND	Dual Op Amp	SM8-8	2.67	2.23	1.78
TC75W51FUTTR-ND	Dual Op Amp	SM8-8	1173.90/3,000		
TC75W54FUTCT-ND	Dual Op Amp	SM8-8	.36	.30	.21
TC75W54FUTFCT-ND	Dual Op Amp*	SM8-8	2.34	1.89	1.30
TC75W54FUTFTR-ND	Dual Op Amp*	SM8-8	1836.00/3,000		
TC75W55FUTCT-ND	Dual Op Amp	SM8-8	.90	.76	.61
TC75W55FUTTR-ND	Dual Op Amp	SM8-8	1173.90/3,000		
	Audio Power Amps — RoHS Compliant				
TA8216HQ5-ND	13W, 2-Channel Audio Power Amp	12-Zip	2.48	1.98	1.54
TA8246AHQ5-ND	6W, 2-Channel Audio Power Amp	12-Zip	2.25	1.80	1.35
TA8256BHQ5-ND	6W, 3-Channel Audio Power Amp	12-Zip	2.48	1.98	1.54
TA8258HQ5-ND	20W, 2-Channel Audio Power Amp	12-Zip	2.93	2.34	1.82
	Shock Sensor — RoHS Compliant				
TA6009FNGCT-ND	1-Channel Version Shock Sensor	10-SSOP	1.11	.93	.74
TA6009FNGTR-ND	1-Channel Version Shock Sensor	10-SSOP	984.20/2,000		
TA6038FMGCT-ND	1-Channel Version Shock Sensor	10-SON	1.41	1.18	.94
TA6038FMGTR-ND	1-Channel Version Shock Sensor	10-SON	1833.00/3,000		
TA6038FNGCT-ND	1-Channel Version Shock Sensor	10-SSOP	1.23	1.03	.82
TA6038FNGTR-ND	1-Channel Version Shock Sensor	10-SSOP	1090.60/2,000		
TA6039FNGCT-ND	1-Channel Version Shock Sensor	10-SSOP	1.23	1.03	.82
TA6039FNGTR-ND	1-Channel Version Shock Sensor	10-SSOP	1090.60/2,000		
TA6042FNGCT-ND	Shock Sensor	10-SSOP	1.23	1.03	.82
TA6042FNGTR-ND	Shock Sensor	10-SSOP	1090.60/2,000		
TB6066FNGCT-ND	Shock Sensor	16-SSOP	.88	.66	.50
TB6066FNGTR-ND	Shock Sensor	16-SSOP	585.20/2,000		
TB6073AFNGCT-ND	2-Channel, Low Noise, Shock Sensor	16-VSOP	1.35	1.13	.90
TB6073AFNGTR-ND	2-Channel, Low Noise, Shock Sensor	16-VSOP	1197.00/2,000		
TB6078FUGCT-ND	Shock Sensor	SOT-23-6	.76	.57	.43
TB6078FUGTR-ND	Shock Sensor	SOT-23-6	741.00/3,000		

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AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CA3140AEZ-ND	4.5MHz BiMOS Op Amp*	8-Dip	1.21	.69	.42
CA3140AMZ-ND	4.5MHz BiMOS Op Amp*	8-SOIC	1.25	.68	.44
CA3140MZ-ND	4.5MHz BiMOS Op Amp*	8-SOIC	1.52	.82	.55
CA3240EZ-ND	4.5MHz Dual BiMOS Op Amp*	8-Dip	1.55	.84	.56
EL2045CSZ-ND	Low Power 100MHz Gain-of-2 Stable Op Amp*	8-SOIC	4.12	2.56	1.89
EL2125CSZ-ND	Low Noise, Low Power, Wideband Amp*	8-SOIC	4.87	3.05	2.32
EL2126CSZ-ND	Low Noise, Low Power, Wideband Amp*	8-SOIC	3.36	2.08	1.49
EL2227CSZ-ND	Dual Low Noise Amp*	8-SOIC	4.62	2.89	2.20
EL2227CYZ-ND	Dual Low Noise Amp*	8-MSOP	4.68	2.93	2.23
EL2228CSZ-ND	Dual Low Noise Amp*	8-SOIC	4.62	2.89	2.20
EL2228CYZ-ND	Dual Low Noise Amp*	8-MSOP	4.68	2.93	2.23
EL2250CS-ND	125MHz Single Supply Dual Op Amp	8-SOIC	4.31	2.78	2.05
EL2276CSZ-ND	70MHz/1mA Current Mode Feedback Amp*	14-SOIC	4.29	2.67	1.97
EL2480CS-ND	250MHz Quad Current Feedback Amp	14-SOIC	4.51	2.82	2.15
EL2480CSZ-ND	250MHz Quad Current Feedback Amp*	14-SOIC	4.51	2.82	2.15
EL4332CSZ-ND	Triple 2:1, 300MHz Multiplexer Amp*	16-SOIC	8.18	5.80	4.55
EL4332CSZ-T7CT-ND	Triple 2:1, 300MHz Multiplexer Amp*	16-SOIC	8.42	5.97	5.33
EL4332CSZ-T7TR-ND	Triple 2:1, 300MHz Multiplexer Amp*	16-SOIC	4679.00/1,000		
EL4340IUZ-ND	500MHz Triple Multiplexer Amp*	24-QSOP	6.78	4.69	3.26
EL4342ILZA-ND	500MHz Triple Multiplexer Amp*	32-QFN	9.84	6.98	5.14
EL4501IU-ND	100MHz Video Front End	24-QSOP	8.57	6.07	4.29
EL4501IUZ-ND	100MHz Video Front End*	24-QSOP	8.57	6.07	4.29
EL4543ILZ-ND	Triple Differential Twisted-Pair Driver*	20-QFN	6.03	4.02	2.79
EL4583AISZ-T7CT-ND	Synchronous Separator*	16-SOIC	9.89	7.01	6.09
EL4583AISZ-T7TR-ND	Synchronous Separator*	16-SOIC	5160.00/1,000		
EL5100IS-ND	200MHz Slew Enhanced VFA	8-SOIC	2.62	1.56	1.09
EL5100ISZ-ND	200MHz Slew Enhanced VFA*	8-SOIC	2.62	1.56	1.09
EL5100IW-T7CT-ND	200MHz Slew Enhanced VFA	SOT-23-6	2.42	1.80	1.33
EL5101IW-T7CT-ND	200MHz Slew Enhanced VFA	SOT-23-5	2.73	1.68	1.43
EL5101IW-T7TR-ND	200MHz Slew Enhanced VFA	SOT-23-5	3510.00/3,000		
EL5102IS-ND	400MHz Slew Enhanced VFA	8-SOIC	2.85	1.75	1.23
EL5102ISZ-ND	400MHz Slew Enhanced VFA*	8-SOIC	2.85	1.75	1.23
EL5102IWZ-T7CT-ND	400MHz Slew Enhanced VFA*	SOT-23-6	3.04	1.87	1.59
EL5102IWZ-T7TR-ND	400MHz Slew Enhanced VFA*	SOT-23-6	3930.00/3,000		
EL5104IS-ND	700MHz Slew Enhanced VFA	8-SOIC	3.00	1.85	1.33
EL5104ISZ-ND	700MHz Slew Enhanced VFA*	8-SOIC	3.00	1.85	1.33
EL5104IW-T7CT-ND	700MHz Slew Enhanced VFA	SOT-23-6	3.24	2.00	1.72
EL5104IW-T7TR-ND	700MHz Slew Enhanced VFA	SOT-23-6	4320.00/3,000		
EL5104IWZ-T7CT-ND	700MHz Slew Enhanced VFA*	SOT-23-6	3.24	2.00	1.72
EL5104IWZ-T7TR-ND	700MHz Slew Enhanced VFA*	SOT-23-6	4320.00/3,000		
EL5105IW-T7CT-ND	700MHz Slew Enhanced VFA	SOT-23-5	3.24	2.00	1.72
EL5105IW-T7TR-ND	700MHz Slew Enhanced VFA	SOT-23-5	4320.00/3,000		
EL5105IWZ-T7ACT-ND	700MHz Slew Enhanced VFA*	SOT-23-5	3.24	2.00	1.72
EL5105IWZ-T7ATR-ND	700MHz Slew Enhanced VFA*	SOT-23-5	360.00/250		
EL5106IS-ND	350MHz Fixed Gain Amp with Enable	8-SOIC	2.50	1.51	1.04

**** RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
EL5106IW-T7CT-ND	350MHz Fixed Gain Amp with Enable	SOT-23-6	2.64	1.62	1.38
EL5106IW-T7TR-ND	350MHz Fixed Gain Amp with Enable	SOT-23-6	3390.00/3,000		
EL5108IS-ND	450MHz Fixed Gain Amp with Enable	8-SOIC	2.64	1.62	1.13
EL5108ISZ-ND	450MHz Fixed Gain Amp with Enable*	8-SOIC	2.64	1.62	1.13
EL5111IWTZ-T7ACT-ND	60MHz Rail-to-Rail In/Out Op Amp*	5-TSOT	3.74	2.33	2.03
EL5111IWTZ-T7ATR-ND	60MHz Rail-to-Rail In/Out Op Amp*	5-TSOT	430.00/250		
EL5111IYEZ-ND	60MHz Rail-to-Rail In/Out Op Amp*	8-HMSOP	4.09	2.54	1.88
EL5120IWTZ-T7ACT-ND	12MHz Rail-to-Rail In/Out Op Amp*	5-TSOT	3.57	2.22	1.93
EL5120IWTZ-T7ATR-ND	12MHz Rail-to-Rail In/Out Op Amp*	5-TSOT	410.00/250		
EL5123CYZ-ND	12MHz Input/Output Buffer*	10-MSOP	2.68	1.72	1.43
EL5127CYZ-ND	2.5MHz 4-Channel Rail-to-Rail Buffer*	10-MSOP	3.30	2.04	1.47
EL5128CYZ-ND	Dual Amp Reference Buffer*	10-MSOP	4.03	2.51	1.86
EL5129IREZ-ND	Multi-Channel Buffer*	20-HTSSOP	3.71	2.31	1.72
EL5132ISZ-T7CT-ND	670MHz Low Noise Amp*	8-SOIC	2.79	1.71	1.46
EL5132ISZ-T7TR-ND	670MHz Low Noise Amp*	8-SOIC	1200.00/1,000		
EL5144CW-T7CT-ND	100MHz Single Supply Rail-to-Rail Amp	SOT-23-5	2.47	1.49	1.25
EL5144CW-T7TR-ND	100MHz Single Supply Rail-to-Rail Amp	SOT-23-5	3030.00/3,000		
EL5146CN-ND	100MHz Single Supply Rail-to-Rail Amp	8-Dip	2.67	1.64	1.15
EL5146CS-ND	100MHz Single Supply Rail-to-Rail Amp	8-SOIC	2.67	1.64	1.15
EL5146CSZ-T7CT-ND	100MHz Single Supply Rail-to-Rail Amp*	8-SOIC	2.82	1.73	1.47
EL5146CSZ-T7TR-ND	100MHz Single Supply Rail-to-Rail Amp*	8-SOIC	1210.00/1,000		
EL5150IS-ND	200MHz Amplifier	8-SOIC	3.45	2.13	1.53
EL5150ISZ-T7CT-ND	200MHz Amplifier*	8-SOIC	3.54	2.20	1.92
EL5150ISZ-T7TR-ND	200MHz Amplifier*	8-SOIC	1630.00/1,000		
EL5150IW-T7CT-ND	200MHz Amplifier	SOT-23-6	3.05	2.32	1.77
EL5150IWZ-T7CT-ND	200MHz Amplifier*	SOT-23-6	3.54	2.20	1.92
EL5150IWZ-T7TR-ND	200MHz Amplifier*	SOT-23-6	4889.76/3,000		
EL5151IW-T7CT-ND	200MHz Amplifier	SOT-23-5	3.05	2.32	1.77
EL5151IWZ-T7CT-ND	200MHz Amplifier*	SOT-23-5	3.54	2.20	1.92
EL5151IWZ-T7TR-ND	200MHz Amplifier*	SOT-23-5	4890.00/3,000		
EL5152IS-ND	300MHz Voltage Mode Feedback Amp	8-SOIC	3.57	2.22	1.64
EL5152ISZ-ND	270MHz Voltage Mode Feedback Amp*	8-SOIC	3.57	2.22	1.64
EL5153IW-T7CT-ND	300MHz Voltage Mode Feedback Amp	SOT-23-5	3.25	2.47	1.89
EL5153IWZ-T7CT-ND	270MHz Voltage Mode Feedback Amp*	SOT-23-5	3.77	2.34	2.04
EL5153IWZ-T7TR-ND	270MHz Voltage Mode Feedback Amp*	SOT-23-5	5190.00/3,000		
EL5156IS-ND	600MHz Voltage Mode Feedback Amp	8-SOIC	3.77	2.34	1.74
EL5156ISZ-T7CT-ND	600MHz Voltage Mode Feedback Amp*	8-SOIC	3.97	2.47	2.15
EL5156ISZ-T7TR-ND	600MHz Voltage Mode Feedback Amp*	8-SOIC	1830.00/1,000		
EL5157IW-T7CT-ND	600MHz Voltage Mode Feedback Amp	SOT-23-5	3.43	2.61	1.99
EL5157IWZ-T7CT-ND	600MHz Voltage Mode Feedback Amp*	SOT-23-5	3.97	2.47	2.15
EL5157IWZ-T7TR-ND	600MHz Voltage Mode Feedback Amp*	SOT-23-5	5490.00/3,000		
EL5160IS-ND	200MHz Low Power Current Feedback Amp	8-SOIC	1.90	1.12	.75
EL5160ISZ-ND	200MHz Low Power Current Feedback Amp*	8-SOIC	1.90	1.12	.75
EL5160IW-T7CT-ND	200MHz Low Power Current Feedback Amp	SOT-23-6	1.73	1.27	.92
EL5160IWZ-T7CT-ND	200MHz LP Current Feedback Amp*	SOT-23-6	1.66	.92	.77
EL5160IWZ-T7TR-ND	200MHz LP Current Feedback Amp*	SOT-23-6	1830.00/3,000		
EL5161IC-T7CT-ND	200MHz Low Power Current Feedback Amp	SC70-5	1.73	1.27	.92
EL5161IW-T7CT-ND	200MHz Low Power Current Feedback Amp	SOT-23-5	1.73	1.27	.92
EL5161IWZ-T7ACT-ND	200MHz Low Power Current Feedback Amp*	SOT-23-5	1.66	.92	.77
EL5161IWZ-T7ATR-ND	200MHz Low Power Current Feedback Amp*	SOT-23-5	152.50/250		
EL5162IS-ND	500MHz Low Power Current Feedback Amp	8-SOIC	2.85	1.75	1.23
EL5162ISZ-ND	500MHz Low Power Current Feedback Amp*	8-SOIC	2.85	1.75	1.23
EL5162IWZ-T7ACT-ND	500MHz Low Power Current Feedback Amp*	SOT-23-6	2.85	1.75	1.49
EL5162IWZ-T7ATR-ND	500MHz Low Power Current Feedback Amp*	SOT-23-6	307.50/250		
EL5163IC-T7CT-ND	500MHz Low Power Current Feedback Amp	SC70-5	2.85	2.12	1.57
EL5163ICZ-T7CT-ND	500MHz Low Power Current Feedback Amp*	SC70-5	2.85	1.75	1.49
EL5163ICZ-T7TR-ND	500MHz Low Power Current Feedback Amp*	SC70-5	3690.12/3,000		
EL5163IW-T7CT-ND	500MHz Low Power Current Feedback Amp	SOT-23-5	2.85	1.75	1.49
EL5163IW-T7TR-ND	500MHz Low Power Current Feedback Amp	SOT-23-5	3690.00/3,000		
EL5163IWZ-T7ACT-ND	500MHz Low Power Current Feedback Amp*	SOT-23-5	2.85	1.75	1.49
EL5163IWZ-T7ATR-ND	500MHz Low Power Current Feedback Amp*	SOT-23-5	307.50/250		
EL5164IS-ND	600MHz Current Feedback Amp	8-SOIC	3.00	1.85	1.33
EL5164ISZ-ND	600MHz Current Feedback Amp*	8-SOIC	3.00	1.85	1.33
EL5164IW-T7CT-ND	600MHz Current Feedback Amp	SOT-23-6	2.50	1.90	1.45
EL5164IWZ-T7CT-ND	600MHz Current Feedback Amp*	SOT-23-6	3.00	1.85	1.59
EL5164IWZ-T7TR-ND	600MHz Current Feedback Amp*	SOT-23-6	3990.00/3,000		
EL5165IW-T7CT-ND	600MHz Current Feedback Amp	SOT-23-5	2.50	1.90	1.45
EL5165IWZ-T7ACT-ND	600MHz Current Feedback Amp*	SOT-23-5	3.00	1.85	1.59
EL5165IWZ-T7ATR-ND	600MHz Current Feedback Amp*	SOT-23-5	332.50/250		
EL5166IS-ND	1.4GHz Current Feedback Amp	8-SOIC	3.24	2.00	1.44
EL5166ISZ-ND	1.4GHz Current Feedback Amp*	8-SOIC	3.24	2.00	1.44
EL5166IWZ-T7ACT-ND	1.4GHz Current Feedback Amp*	SOT-23-6	4.23	2.63	2.29
EL5166IWZ-T7ATR-ND	1.4GHz Current Feedback Amp*	SOT-23-6	487.75/250		
EL5167IC-T7CT-ND	1.4GHz Current Feedback Amp	SC70-5	2.70	2.06	1.57
EL5167ICZ-T7ACT-ND	1.4GHz Current Feedback Amp*	SC70-5	3.24	2.00	1.72
EL5167ICZ-T7ATR-ND	1.4GHz Current Feedback Amp*	SC70-5	360.00/250		
EL5167IW-T7CT-ND	1.4GHz Current Feedback Amp	SOT-23-5	2.70	2.06	1.57
EL5167IWZ-T7ACT-ND	1.4GHz Current Feedback Amp*	SOT-23-5	3.24	2.00	1.72
EL5167IWZ-T7ATR-ND	1.4GHz Current Feedback Amp*	SOT-23-5	360.00/250		
EL5193ACSZ-T7CT-ND	Quad 600MHz Current Feedback Amp*	8-SOIC	2.67	1.64	1.40
EL5193ACSZ-T7TR-ND	Quad 600MHz Current Feedback Amp*	8-SOIC	1150.00/1,000		
EL5193ACWZ-T7CT-ND	Quad 600MHz Current Feedback Amp*	SOT-23-6	2.54	1.53	1.29
EL5193ACWZ-T7TR-ND	Quad 600MHz Current Feedback Amp*	SOT-23-6	3120.00/3,000		
EL5202IY-ND	400MHz Slew Enhanced VFA	10-MSOP	3.15	1.95	1.40
EL5202IYZ-T7CT-ND	400MHz Slew Enhanced VFA*	10-MSOP	3.39	2.10	1.81
EL5202IYZ-T7TR-ND	400MHz Slew Enhanced VFA*	10-MSOP	2264.52/1,500		
EL5203IS-ND	400MHz Slew Enhanced VFA	8-SOIC	3.15	1.95	1.40
EL5203ISZ-T7CT-ND	400MHz Slew Enhanced VFA*	8-SOIC	3.39	2.10	1.81
EL5203ISZ-T7TR-ND	400MHz Slew Enhanced VFA*	8-SOIC	1509.68/1,000		
EL5203IY-ND	400MHz Slew Enhanced VFA	8-MSOP	3.15	1.95	1.40
EL5203IYZ-T7CT-ND	400MHz Slew Enhanced VFA*	8-MSOP	3.39	2.10	1.81
EL5203IYZ-T7TR-ND	400MHz Slew Enhanced VFA*	8-MSOP	2265.00/1,500		
EL5204IY-ND	700MHz Slew Enhanced VFA	10-MSOP	4.40	2.83	2.09
EL5204IYZ-T7CT-ND	700MHz Slew Enhanced VFA*	10-MSOP	4.59	2.87	2.54
EL5204IYZ-T7TR-ND	700MHz Slew Enhanced VFA*	10-MSOP	3284.10/1,500		
EL5205IS-ND	700MHz Slew Enhanced VFA	8-SOIC	4.40	2.83	2.09
EL5205ISZ-T7CT-ND	700MHz Slew Enhanced VFA*	8-SOIC	4.59	2.87	2.54
EL5205ISZ-T7TR-ND	700MHz Slew Enhanced VFA*	8-SOIC	2189.40/1,000		
EL5205IY-ND	700MHz Slew Enhanced VFA	8-MSOP	4.40	2.83	2.09
EL5205IYZ-T7CT-ND	700MHz Slew Enhanced VFA*	8-MSOP	4.59	2.87	2.54
EL5205IYZ-T7TR-ND	700MHz Slew Enhanced VFA *	8-MSOP	3284.10/1,500		
EL5210CS-ND	30MHz R/R Input/Output Op Amp	8-SOIC	4.06	2.52	1.88
EL5210CSZ-ND	30MHz R/R Input/Output Op Amp*	8-SOIC	4.06	2.52	1.88
EL5210CY-ND	30MHz R/R Input/Output Op Amp	8-MSOP	4.06	2.52	1.88
EL5210CYZ-ND	30MHz R/R Input/Output Op Amp*	8-MSOP	4.06	2.52	1.88

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
EL5211AIYEZ-ND	60MHz R/R Input/Output Op Amp*	8-HMSOP	4.81	3.07	2.33
EL5211IYE-ND	60MHz R/R Input/Output Op Amp	8-HMSOP	4.81	3.07	2.33
EL5211IYEZ-ND	60MHz R/R Input/Output Op Amp*	8-HMSOP	4.81	3.07	2.33
EL5220CYZ-ND	12MHz R/R Input/Output Op Amp*	8-MSOP	3.36	2.08	1.49
EL5221CYZ-ND	Dual 12MHz Rail-to-Rail I/O Buffer*	8-MSOP	3.18	1.97	1.41
EL5223CRZ-ND	12MHz Rail-to-Rail I/O Buffer*	20-TSSOP	4.82	3.01	2.29
EL5224ILZ-ND	12MHz Rail-to-Rail Buffer*	24-QFN	5.20	3.46	2.67
EL5224IREZ-ND	12MHz Rail-to-Rail Buffer*	24-HTSSOP	5.20	3.46	2.67
EL5227CLZ-ND	2.5MHz Rail-to-Rail Buffer*	24-QFN	4.06	2.52	1.88
EL5227CRZ-ND	2.5MHz Rail-to-Rail Buffer*	20-TSSOP	4.06	2.52	1.88
EL5228IL-T7CT-ND	VCOM with Dual Gamma Buffer	10-DFN	2.60	1.94	1.43
EL5244CN-ND	100MHz Single Supply, Rail-to-Rail Amp	8-Dip	3.04	1.87	1.31
EL5244CS-ND	100MHz Single Supply, Rail-to-Rail Amp	8-SOIC	3.04	1.87	1.31
EL5250IY-ND	200MHz Voltage Mode Feedback Amp	10-MSOP	4.54	2.84	2.16
EL5251IS-ND	200MHz Voltage Mode Feedback Amp	8-SOIC	4.54	2.84	2.16
EL5251IY-ND	200MHz Voltage Mode Feedback Amp	8-MSOP	4.54	2.84	2.16
EL5252IY-ND	300MHz Voltage Mode Feedback Amp	10-MSOP	5.03	3.21	2.44
EL5257IS-ND	600MHz Voltage Mode Feedback Amp	8-SOIC	5.38	3.59	2.76
EL5257IY-ND	600MHz Voltage Mode Feedback Amp	8-MSOP	5.38	3.59	2.76
EL5260IYZ-ND	200MHz Low Power Current Feedback Amp*	10-MSOP	3.71	2.31	1.72
EL5261ISZ-ND	200MHz Low Power Current Feedback Amp*	8-SOIC	3.71	2.31	1.72
EL5262IYZ-ND	500MHz Low Power Current Feedback Amp*	10-MSOP	4.48	2.80	2.13
EL5263ISZ-ND	500MHz Low Power Current Feedback Amp*	8-SOIC	4.48	2.80	2.13
EL5300IU-ND	200MHz Slew Enhanced VFA	16-QSOP	5.09	3.24	2.47
EL5300IUZ-T7CT-ND	200MHz Slew Enhanced VFA*	16-QSOP	5.21	3.38	2.98
EL5300IUZ-T7TR-ND	200MHz Slew Enhanced VFA*	16-QSOP	2571.00/1,000		
EL5304IU-ND	700MHz Slew Enhanced VFA	16-QSOP	6.95	4.81	3.71
EL5304IUZ-T7CT-ND	700MHz Slew Enhanced VFA*	16-QSOP	7.15	4.87	4.34
EL5304IUZ-T7TR-ND	700MHz Slew Enhanced VFA*	16-QSOP	3810.00/1,000		
EL5306IUZ-ND	350MHz Fixed Gain Amp*	16-QSOP	5.21	3.38	2.58
EL5306ISZ-T7CT-ND	350MHz Fixed Gain Amp*	16-SOIC	5.20	3.46	3.07
EL5306ISZ-T7TR-ND	350MHz Fixed Gain Amp*	16-SOIC	2670.00/1,000		
EL5308IUZ-T7CT-ND	450MHz Fixed Gain Amp*	16-QSOP	5.20	3.46	3.07
EL5308IUZ-T7TR-ND	450MHz Fixed Gain Amp*	16-QSOP	2670.00/1,000		
EL5323CLZ-ND	12MHz 10-Channel R/R I/O Buffer*	24-QFN	5.20	3.46	2.67
EL5323CRZ-ND	12MHz 10-Channel R/R I/O Buffer*	24-TSSOP	5.20	3.46	2.67
EL5324ILZ-ND	12MHz Rail-to-Rail Buffer*	32-QFN	5.67	3.78	2.92
EL5324IREZ-ND	12MHz Rail-to-Rail Buffer*	28-HTSSOP	5.98	3.98	3.08
EL5327CLZ-ND	2.5MHz, 10-Channel Rail-to-Rail Buffer*	24-QFN	4.31	2.78	2.05
EL5327CRZ-ND	2.5MHz, 10-Channel Rail-to-Rail Buffer*	24-TSSOP	4.31	2.78	2.05
EL5329IREZ-ND	Muti-Channel Buffer*	28-HTSSOP	4.95	3.15	2.40
EL5329IRZ-ND	Muti-Channel Buffer*	28-TSSOP	4.76	2.98	2.27
EL5360IS-ND	200MHz Low Power Current Feedback Amp	16-SOIC	4.20	2.70	2.00
EL5360ISZ-ND	200MHz Low Power Current Feedback Amp*	16-SOIC	4.20	2.70	2.00
EL5360IU-ND	200MHz Low Power Current Feedback Amp	16-QSOP	4.20	2.70	2.00
EL5360IUZ-T7CT-ND	200MHz Low Power Current Feedback Amp*	16-QSOP	4.42	2.85	2.48
EL5360IUZ-T7TR-ND	200MHz Low Power Current Feedback Amp*	16-QSOP	2109.30/1,000		
EL5362ISZ-T7CT-ND	500MHz Low Power Current Feedback Amp*	16-SOIC	5.06	3.22	2.84
EL5362ISZ-T7TR-ND	500MHz Low Power Current Feedback Amp*	16-SOIC	2451.00/1,000		
EL5362IU-ND	500MHz Low Power Current Feedback Amp	16-QSOP	4.87	3.10	2.36
EL5362IUZ-T7CT-ND	500MHz Low Power Current Feedback Amp*	16-QSOP	5.06	3.22	2.84
EL5362IUZ-T7TR-ND	500MHz Low Power Current Feedback Amp*	16-QSOP	2451.00/1,000		
EL5364IS-ND	600MHz Current Feedback Amp	16-SOIC	5.33	3.55	2.74
EL5364ISZ-ND	600MHz Current Feedback Amp*	16-SOIC	5.33	3.55	2.74
EL5364IU-ND	600MHz Current Feedback Amp	16-QSOP	5.33	3.55	2.74
EL5364IUZ-ND	600MHz Current Feedback Amp*	16-QSOP	5.33	3.55	2.74
EL5364IUZA-T7CT-ND	600MHz Current Feedback Amp*	16-QSOP	5.54	3.69	3.27
EL5364IUZA-T7TR-ND	600MHz Current Feedback Amp*	16-QSOP	2839.29/1,000		
EL5370IU-ND	100MHz Differential Twisted-Pair Driver	24-QSOP	5.17	3.29	2.51
EL5371IU-ND	250MHz Differential Twisted-Pair Driver	28-QSOP	5.17	3.29	2.51
EL5372IU-ND	250MHz Differential Line Receiver	24-QSOP	5.17	3.29	2.51
EL5373IU-ND	450MHz Differential Twisted-Pair Driver	24-QSOP	6.01	4.00	3.08
EL5374IU-ND	550MHz Differential Twisted-Pair Driver	28-QSOP	6.01	4.00	3.08
EL5375IU-ND	550MHz Triple Differential Line Receiver	24-QSOP	6.01	4.00	3.08
EL5410CR-ND	30MHz R/R Input/Output Op Amp	14-TSSOP	4.68	2.93	2.23
EL5410CRZ-ND	30MHz R/R Input/Output Op Amp*	14-TSSOP	4.68	2.93	2.23
EL5410CS-ND	30MHz R/R Input/Output Op Amp	14-SOIC	4.68	2.93	2.23
EL5411IRE-ND	60MHz R/R Input/Output Op Amp	14-HTSSOP	4.12	2.56	1.89
EL5411IREZ-ND	60MHz R/R Input/Output Op Amp*	14-HTSSOP	4.12	2.56	1.89
EL5411IRZ-ND	60MHz R/R Input/Output Op Amp*	14-TSSOP	3.83	2.38	1.76
EL5420CLZ-ND	12MHz R/R Input/Output Op Amp*	16-QFN	4.40	2.83	2.09
EL5420CRZ-ND	12MHz R/R Input/Output Op Amp*	14-TSSOP	4.32	2.69	2.00
EL5420CSZ-ND	12MHz R/R Input/Output Op Amp*	14-SOIC	4.32	2.69	2.00
EL5421CYZ-ND	Quad 12MHz R/R Input/Output Buffer*	10-MSOP	4.18	2.60	1.92
EL5423CLZ-ND	12MHz, 12-Channel R/R I/O Buffer*	32-QFN	5.67	3.78	2.92
EL5423CRZ-ND	12MHz, 12-Channel R/R I/O Buffer*	28-TSSOP	5.67	3.78	2.92
EL5424ILZ-ND	12MHz Rail-to-Rail Buffer*	32-QFN	6.11	4.07	3.14
EL5427CLZ-ND	2.5MHz, 12-Channel Rail-to-Rail Buffer*	32-QFN	4.37	2.81	2.08
EL5427CRZ-ND	2.5MHz, 12-Channel Rail-to-Rail Buffer*	28-TSSOP	4.37	2.81	2.08
EL5444CS-ND	100MHz Single Supply, Rail-to-Rail Amp	14-SOIC	4.87	3.05	2.32
EL5444CU-ND	100MHz Single Supply, Rail-to-Rail Amp	16-QSOP	4.87	3.05	2.32
EL5451IS-ND	200MHz Amp	14-SOIC	6.60	4.57	3.52
EL5455IS-ND	270MHz Voltage Mode Feedback Amp	14-SOIC	7.33	4.99	3.91
EL5455ISZ-T7CT-ND	270MHz Voltage Mode Feedback Amp*	14-SOIC	7.53	5.12	4.57
EL5455ISZ-T7TR-ND	270MHz Voltage Mode Feedback Amp*	14-SOIC	4009.00/1,000		
EL5462ISZ-ND	500MHz Low Power Current Feedback Amp*	14-SOIC	3.57	2.21	1.59
EL5524IREZ-ND	Integrated Buffer*	14-HTSSOP	4.26	2.74	2.04
EL5611IREZ-ND	60MHz Rail-to-Rail Input/Output Amp*	24-HTSSOP	4.48	2.80	2.13
EL5623IRZ-ND	Muti-Channel Buffer*	16-TSSOP	4.62	2.89	2.20
EL5624AIREZ-ND	6-Channel Buffer*	20-HTSSOP	5.33	3.55	2.74
EL5624IREZ-ND	Integrated Buffer*	20-HTSSOP	4.65	2.91	2.21
EL5724IREZ-ND	Integrated Buffer with VCOM*	24-HTSSOP	5.62	3.74	2.88
EL5811IREZ-ND	60MHz Rail-to-Rail Input/Output Amp*	28-HTSSOP	4.48	2.80	2.13
EL5824IREZ-ND	Integrated Buffer*	28-HTSSOP	5.62	3.74	2.88
EL7640ILTZ-T7CT-ND	TFT-LCD DC/DC with Integrated Amp*	32-QFN	3.36	2.08	1.79
EL7640ILTZ-T7TR-ND	TFT-LCD DC/DC with Integrated Amp*	32-QFN	1500.00/1,000		
EL8100IS-ND	200MHz Rail-to-Rail Amp	8-SOIC	2.62	1.56	1.09
EL8100ISZ-ND	200MHz Rail-to-Rail Amp*	8-SOIC	2.62	1.56	1.09
EL8100ISZ-T7CT-ND	200MHz Rail-to-Rail Amp*	8-SOIC	2.79	1.71	1.46
EL8100ISZ-T7TR-ND	200MHz Rail-to-Rail Amp*	8-SOIC	1200.00/1,000		
EL8100IW-T7CT-ND	200MHz Rail-to-Rail Amp	SOT-23-6	2.79	2.07	1.53
EL8100IWZ-T7ACT-ND	200MHz Rail-to-Rail Amp*	SOT-23-6	2.79	1.71	1.46
EL8100IWZ-T7ATR-ND	200MHz Rail-to-Rail Amp*	SOT-23-6	300.00/250		
EL8101IWZ-T7ACT-ND	200MHz Rail-to-Rail Amp*	SOT-23-5	2.79	1.71	1.46
EL8101IWZ-T7ATR-ND	200MHz Rail-to-Rail Amp*	SOT-23-5	300.00/250		

***** *RoHS Compliant*

(Continued)

intersil Digi-Reel® AMPLIFIERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
EL8102IS-ND	500MHz Rail-to-Rail Amp	8-SOIC	3.63	2.25	1.66
EL8102ISZ-ND	500MHz Rail-to-Rail Amp*	8-SOIC	3.63	2.25	1.67
EL8102IWZ-T7CT-ND	500MHz Rail-to-Rail Amp*	SOT-23-6	3.86	2.40	2.09
EL8102IWZ-T7TR-ND	500MHz Rail-to-Rail Amp*	SOT-23-6	5310.00/3,000		
EL8103IW-T7CT-ND	500MHz Rail-to-Rail Amp	SOT-23-5	3.86	2.40	2.09
EL8103IWZ-T7ACT-ND	500MHz Rail-to-Rail Amp*	SOT-23-5	3.86	2.40	2.09
EL8103IWZ-T7ATR-ND	500MHz Rail-to-Rail Amp*	SOT-23-5	442.50/250		
EL8170FSZ-ND	Micropower, Single Supply, R/R I/O Instrumentation Amp* ***NEW!***	8-SOIC	3.24	2.00	1.30
EL8170ISZ-T7CT-ND	Micropower, Single Supply, R/R I/O Instr. Amp*	8-SOIC	3.24	2.00	1.77
EL8171FSZ-ND	Micropower, Single Supply, R/R I/O Instrumentation Amp* ***NEW!***	8-SOIC	2.56	1.52	.96
EL8172FSZ-ND	Micropower, Single Supply, R/R I/O Instrumentation Amp* ***NEW!***	8-SOIC	3.24	2.00	1.30
EL8172ISZ-T7CT-ND	Micropower, Single Supply, R/R I/O Instr. Amp*	8-SOIC	3.24	2.00	1.77
EL8173FSZ-ND	Micropower, Single Supply, R/R I/O Instrumentation Amp* ***NEW!***	8-SOIC	2.56	1.52	.96
EL8176AIWZ-T7ACT-ND	Micropower Single Supply Rail-to-Rail In/Out Precision Op Amp*	SOT-23-6	3.71	2.31	2.09
EL8176AIWZ-T7ATR-ND	Micropower Single Supply Rail-to-Rail In/Out Precision Op Amp*	SOT-23-6	435.00/250		
EL8176BIWZ-T7CT-ND	Micropower, Single Supply, Rail-to-Rail I/O Precision Op Amp*	SOT-23-6	2.73	1.68	1.50
EL8176FWZ-T7ACT-ND	Micropower, Single Supply, Rail-to-Rail I/O Precision Op Amp* ***NEW!***	SOT-23-6	2.24	1.33	1.08
EL8176FWZ-T7ATR-ND	Micropower, Single Supply, Rail-to-Rail I/O Precision Op Amp* ***NEW!***	SOT-23-6	204.00/250		
EL8178AIWZ-T7ACT-ND	Micropower Single Supply Rail-to-Rail In/Out Precision Op Amp*	SOT-23-6	4.00	2.49	2.25
EL8178AIWZ-T7ATR-ND	Micropower Single Supply Rail-to-Rail In/Out Precision Op Amp*	SOT-23-6	414.00/250		
EL8178BIWZ-T7CT-ND	Micropower, Single Supply, Rail-to-Rail I/O Precision Op Amp*	SOT-23-6	2.79	1.71	1.49
EL8178BIWZ-T7TR-ND	Micropower, Single Supply, Rail-to-Rail I/O Precision Op Amp*	SOT-23-6	3240.00/3,000		
EL8186IWZ-T7ACT-ND	Micropower Single Supply R/R In/Out Op Amp*	SOT-23-6	2.01	1.18	1.03
EL8186IWZ-T7ATR-ND	Micropower Single Supply R/R In/Out Op Amp*	SOT-23-6	199.13/250		
EL8200IY-ND	200MHz Rail-to-Rail Amp	10-MSOP	3.54	2.19	1.58
EL8200IYZ-T7CT-ND	200MHz Rail-to-Rail Amp*	10-MSOP	3.63	2.25	1.96
EL8200IYZ-T7TR-ND	200MHz Rail-to-Rail Amp*	10-MSOP	2505.00/1,500		
EL8201IS-ND	200MHz Rail-to-Rail Amp	8-SOIC	3.54	2.19	1.58
EL8201ISZ-ND	200MHz Rail-to-Rail Amp*	8-SOIC	3.54	2.19	1.58
EL8202IY-ND	500MHz Rail-to-Rail Amp	10-MSOP	6.11	4.07	3.14
EL8202IYZ-T7CT-ND	500MHz Rail-to-Rail Amp*	10-MSOP	6.32	4.21	3.73
EL8202IYZ-T7TR-ND	500MHz Rail-to-Rail Amp*	10-MSOP	4858.79/1,500		
EL8203IS-ND	500MHz Rail-to-Rail Amp	8-SOIC	6.11	4.07	3.14
EL8203ISZ-T7CT-ND	500MHz Rail-to-Rail Amp*	8-SOIC	6.32	4.21	3.73
EL8203ISZ-T7TR-ND	500MHz Rail-to-Rail Amp*	8-SOIC	3239.19/1,000		
EL8300IS-ND	200MHz Rail-to-Rail Amp	16-SOIC	4.37	2.81	2.08
EL8300ISZ-T7CT-ND	200MHz Rail-to-Rail Amp*	16-SOIC	4.59	2.87	2.54
EL8300ISZ-T7TR-ND	200MHz Rail-to-Rail Amp*	16-SOIC	2189.00/1,000		
EL8300IU-ND	200MHz Rail-to-Rail Amp	16-QSOP	4.37	2.81	2.08
EL8300IUZ-T7CT-ND	200MHz Rail-to-Rail Amp*	16-QSOP	4.59	2.87	2.54
EL8300IUZ-T7TR-ND	200MHz Rail-to-Rail Amp*	16-QSOP	2189.40/1,000		
EL8302IS-ND	500MHz Rail-to-Rail Amp	16-SOIC	7.85	5.34	4.18
EL8302ISZ-T7CT-ND	500MHz Rail-to-Rail Amp*	16-SOIC	8.03	5.46	4.87
EL8302ISZ-T7TR-ND	500MHz Rail-to-Rail Amp*	16-SOIC	4279.00/1,000		
EL8302IU-ND	500MHz Rail-to-Rail Amp	16-QSOP	7.85	5.34	4.18
EL8401IS-ND	200MHz Rail-to-Rail Amp	14-SOIC	8.40	5.95	4.67
EL8401IU-ND	200MHz Rail-to-Rail Amp	16-QSOP	8.40	5.95	4.67
EL8401IUZ-T7CT-ND	200MHz Rail-to-Rail Amp*	16-QSOP	8.59	6.09	5.43
EL8401IUZ-T7TR-ND	200MHz Rail-to-Rail Amp*	16-QSOP	4769.00/1,000		
EL8403IS-ND	500MHz Rail-to-Rail Amp	14-SOIC	9.41	6.47	5.23
EL8403IU-ND	500MHz Rail-to-Rail Amp	16-QSOP	9.41	6.47	5.23
EL9211IYEZ-ND	100MHz, 100mA Amp*	8-HMSOP	4.20	2.70	1.80
EL9212IYEZ-ND	100MHz, 100mA Amp*	8-HMSOP	4.95	3.15	2.16
EL9214IREZ-T7CT-ND	100MHz, 100mA Amp*	14-HTSSOP	5.72	3.81	3.23
EL9214IREZ-T7TR-ND	100MHz, 100mA Amp*	14-HTSSOP	2640.00/1,000		
HA4600CBZ-ND	480MHz, Video Buffer*	8-SOIC	2.11	1.21	.84
HA9P5020-5Z-ND	100MHz Current Feedback Video Amp*	8-SOIC	3.00	1.85	1.33
HFA1100IBZ-ND	850MHz Low Distortion Current Feedback Op Amp*	8-SOIC	4.06	2.52	1.88
HFA1130IBZ-ND	850MHz Output Limiting, Low Distortion Current Feedback Op Amp*	8-SOIC	4.81	3.07	2.33
ICL7611DCPAZ-ND	1.4MHz Low Power CMOS Op Amp*	8-Dip	1.37	.76	.48
ISL28136FHZ-T7ACT-ND	5MHz Single Precision Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-6	2.79	1.71	1.40
ISL28136FHZ-T7ATR-ND	5MHz Single Precision Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-6	270.00/250		
ISL28138FHZ-T7ACT-ND	4.5MHz Single Precision Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-6	2.56	1.52	1.24
ISL28138FHZ-T7ATR-ND	4.5MHz Single Precision Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-6	240.00/250		
ISL28156FHZ-T7CT-ND	39µA Micropower Single Precision Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-6	2.24	1.33	1.08
ISL28156FHZ-T7TR-ND	39µA Micropower Single Precision Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-6	2448.00/3,000		
ISL28158FHZ-T7ACT-ND	34µA Micropower Single Precision Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-6	2.14	1.23	1.00
ISL28158FHZ-T7ATR-ND	34µA Micropower Single Precision Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-6	189.00/250		
ISL28190FHZ-T7CT-ND	Single Supply, Ultra-Low Noise, Rail-to-Rail Output Op Amp* ***NEW!***	SOT-23-6	4.12	2.56	2.13
ISL28190FHZ-T7TR-ND	Single Supply, Ultra-Low Noise, Rail-to-Rail Output Op Amp* ***NEW!***	SOT-23-6	5112.00/3,000		
ISL28191FHZ-T7CT-ND	Single Supply, Ultra-Low Noise, Rail-to-Rail Output Op Amp* ***NEW!***	SOT-23-6	3.57	2.21	1.82
ISL28191FHZ-T7TR-ND	Single Supply, Ultra-Low Noise, Rail-to-Rail Output Op Amp* ***NEW!***	SOT-23-6	4284.00/3,000		
ISL28194FHZ-T7CT-ND	Ultra-Small, 330nA Single Supply Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-6	2.31	1.39	1.12
ISL28194FHZ-T7TR-ND	Ultra-Small, 330nA Single Supply Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-6	2556.00/3,000		
ISL28195FHZ-T7CT-ND	Ultra-Small, 1µA Single Supply Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-6	2.18	1.29	1.04
ISL28195FHZ-T7TR-ND	Ultra-Small, 1µA Single Supply Rail-to-Rail I/O Op Amp* ***NEW!***	SOT-23-6	2376.00/3,000		
ISL28196FHZ-T7CT-ND	Ultra-Small, 2.5µA Single Supply Rail-to-Rail I/O Comparator* ***NEW!***	SOT-23-6	2.18	1.29	1.04
ISL28196FHZ-T7TR-ND	Ultra-Small, 2.5µA Single Supply Rail-to-Rail I/O Comparator* ***NEW!***	SOT-23-6	2376.00/3,000		
ISL28197FHZ-T7CT-ND	Ultra-Small, 800nA Single Supply Rail-to-Rail I/O Comparator* ***NEW!***	SOT-23-6	2.31	1.39	1.12
ISL28197FHZ-T7TR-ND	Ultra-Small, 800nA Single Supply Rail-to-Rail I/O Comparator* ***NEW!***	SOT-23-6	2556.00/3,000		
ISL28276FBZ-ND	Dual Micropower Single Supply Rail-to-Rail I/O Op Amp* ***NEW!***	8-SOIC	3.42	2.11	1.37
ISL28278FAZ-ND	Dual Micropower Single Supply Rail-to-Rail I/O Op Amp* ***NEW!***	16-QSOP	3.71	2.31	1.54
ISL28290FUZ-ND	Dual Supply Ultra Low Noise, Ultra Low Distortion, Rail-to-Rail Output, Op Amp*	10-MSOP	6.11	4.07	2.82
ISL28291FUZ-ND	Dual, Single Supply, Ultra-Low Noise, Rail-to-Rail Output Op Amp* ***NEW!***	10-MSOP	5.56	3.71	3.14
ISL28470FAZ-ND	Quad Channel, Single Supply, Micropower, Rail-to-Rail Amp*	28-QSOP	5.46	3.64	2.52
ISL55001IBZ-T7CT-ND	220MHz Unity-Gain Op Amp*	8-SOIC	4.54	2.84	2.50
ISL55001IBZ-T7TR-ND	220MHz Unity-Gain Op Amp*	8-SOIC	2159.00/1,000		
ISL55002IBZ-T7CT-ND	200MHz Unity-Gain Op Amp*	8-SOIC	5.12	3.26	2.88
ISL55002IBZ-T7TR-ND	200MHz Unity-Gain Op Amp*	8-SOIC	2491.00/1,000		
ISL55004IBZ-T7CT-ND	200MHz Unity-Gain Op Amp*	14-SOIC	7.95	5.41	4.83
ISL55004IBZ-T7TR-ND	200MHz Unity-Gain Op Amp*	14-SOIC	4239.00/1,000		
ISL59112IEZ-T7CT-ND	40MHz Rail-to-Rail Video Buffer*	SC70-6	4.73	2.96	2.50
ISL59112IEZ-T7TR-ND	40MHz Rail-to-Rail Video Buffer*	SC70-6	6084.00/3,000		
ISL59424IRZ-ND	1GHz Triple Mux Amp*	24-QFN	7.70	5.24	4.11
ISL59440IAZ-T7CT-ND	400MHz Multiplexing Amp*	16-QSOP	5.32	3.45	3.04
ISL59440IAZ-T7TR-ND	400MHz Multiplexing Amp*	16-QSOP	2630.00/1,000		

intersil CPU SUPERVISORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL88705IB846Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	2.67	1.64	1.40
ISL88705IB846Z-TKTR-ND	Supervisor with Watchdog Timer*	8-SOIC	1150.00/1,000		
ISL88705IP846Z-ND	Supervisor with Watchdog Timer*	8-Dip	2.67	1.64	1.15
ISL88706IB826Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	2.67	1.64	1.40
ISL88706IB826Z-TKTR-ND	Supervisor with Watchdog Timer*	8-SOIC	1150.00/1,000		
ISL88706IB829Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	2.67	1.64	1.40
ISL88706IB829Z-TKTR-ND	Supervisor with Watchdog Timer*	8-SOIC	1149.82/1,000		
ISL88706IB831Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	2.67	1.64	1.40
ISL88706IB831Z-TKTR-ND	Supervisor with Watchdog Timer*	8-SOIC	1150.00/1,000		
ISL88706IB844Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	2.67	1.64	1.40
ISL88706IB844Z-TKTR-ND	Supervisor with Watchdog Timer*	8-SOIC	1149.82/1,000		
ISL88706IP826Z-ND	Supervisor with Watchdog Timer*	8-PDip	2.67	1.64	1.15
ISL88706IP829Z-ND	Supervisor with Watchdog Timer*	8-PDip	2.67	1.64	1.15
ISL88706IP831Z-ND	Supervisor with Watchdog Timer*	8-PDip	2.67	1.64	1.15
ISL88706IP844Z-ND	Supervisor with Watchdog Timer*	8-PDip	2.67	1.64	1.15
ISL88707IB846Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	2.67	1.64	1.40
ISL88707IB846Z-TKTR-ND	Supervisor with Watchdog Timer*	8-SOIC	1149.82/1,000		
ISL88707IP846Z-ND	Supervisor with Watchdog Timer*	8-PDip	2.67	1.64	1.15
ISL88708IB826Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	2.67	1.64	1.40
ISL88708IB826Z-TKTR-ND	Supervisor with Watchdog Timer*	8-SOIC	1150.00/1,000		
ISL88708IB829Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	2.67	1.64	1.40
ISL88708IB829Z-TKTR-ND	Supervisor with Watchdog Timer*	8-SOIC	1149.82/1,000		
ISL88708IB831Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	2.67	1.64	1.40
ISL88708IB831Z-TKTR-ND	Supervisor with Watchdog Timer*	8-SOIC	1150.00/1,000		
ISL88708IB844Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	2.67	1.64	1.40
ISL88708IB844Z-TKTR-ND	Supervisor with Watchdog Timer*	8-SOIC	1150.00/1,000		
ISL88708IP826Z-ND	Supervisor with Watchdog Timer*	8-PDip	2.67	1.64	1.15
ISL88708IP829Z-ND	Supervisor with Watchdog Timer*	8-PDip	2.67	1.64	1.15
ISL88708IP831Z-ND	Supervisor with Watchdog Timer*	8-PDip	2.67	1.64	1.15
ISL88708IP844Z-ND	Supervisor with Watchdog Timer*	8-PDip	2.67	1.64	1.15
ISL88716IB826Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	2.67	1.64	1.40
ISL88716IB826Z-TKTR-ND	Supervisor with Watchdog Timer*	8-SOIC	1149.82/1,000		
ISL88716IP826Z-ND	Supervisor with Watchdog Timer*	8-PDip	2.67	1.64	1.15
ISL88813IB846Z-TKCT-ND	Supervisor with Watchdog Timer*	8-SOIC	2.67	1.64	1.40
ISL88813IB846Z-TKTR-ND	Supervisor with Watchdog Timer*	8-SOIC	1149.82/1,000		
ISL88813IP846Z-ND	Supervisor with Watchdog Timer*	8-PDip	2.67	1.64	1.15
X4043P-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-Dip	6.08	4.05	2.81
X4043PI-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-Dip	6.29	4.19	2.91
X4043S8-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	5.20	3.31	2.27
X4043S8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	5.29	3.43	2.36
X4043M8-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	6.08	4.05	2.81
X4043M8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	6.29	4.19	2.91
X4043S8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	5.20	3.31	2.27
X4043S8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	5.29	3.43	2.36
X4043M8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	6.08	4.05	2.81
X4043M8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	6.29	4.19	2.91
X4043S8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	5.20	3.31	2.27
X4043S8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	5.29	3.43	2.36
X4043M8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	6.08	4.05	2.81
X4043M8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	6.29	4.19	2.91

**** RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

intersil CPU SUPERVISORS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
X4043P-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^2C EE, Reset Low	8-Dip	6.08	4.05	2.81
X4043PI-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^2C EE, Reset Low	8-Dip	6.29	4.19	2.91
X4043S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^2C EE, Reset Low	8-SOIC	5.20	3.31	2.27
X4043S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^2C EE, Reset Low	8-SOIC	5.29	3.43	2.36
X4045P-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-Dip	6.08	4.05	2.81
X4045PI-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-Dip	6.29	4.19	2.91
X4045S8-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-SOIC	5.20	3.31	2.27
X4045M8-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-MSOP	6.08	4.05	2.81
X4045M8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-MSOP	6.29	4.19	2.91
X4045S8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-SOIC	5.29	3.43	2.36
X4045M8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-MSOP	6.29	4.19	2.91
X4045S8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-SOIC	5.20	3.31	2.27
X4045S8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-SOIC	5.29	3.43	2.36
X4045M8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-MSOP	6.29	4.19	2.91
X4045P-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-Dip	6.08	4.05	2.81
X4045PI-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-Dip	6.29	4.19	2.91
X4045S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-SOIC	5.20	3.31	2.27
X4045S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-SOIC	5.29	3.43	2.36
X4045M8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-MSOP	6.08	4.05	2.81
X4045M8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^2C EE, Reset High	8-MSOP	6.29	4.19	2.91
X4323S8-ND	4.25-4.5V CPU Supervisor with WDT, 32K I^2C EE, Reset Low	8-SOIC	4.54	3.17	2.75
X4323S8I-ND	4.25-4.5V CPU Supervisor with WDT, 32K I^2C EE, Reset Low	8-SOIC	4.92	3.44	2.98
X4323S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 32K I^2C EE, Reset Low	8-SOIC	4.92	3.44	2.98
X5001S8-ND	4.25-4.5V CPU Supervisor with WDT, Reset Low	8-SOIC	4.29	2.67	1.78
X5001S8I-ND	4.25-4.5V CPU Supervisor with WDT, Reset Low	8-SOIC	4.48	2.80	1.92
X5001S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, Reset Low	8-SOIC	4.29	2.67	1.78
X5043P-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-Dip	5.20	3.31	2.27
X5043PI-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-Dip	5.29	3.43	2.36
X5043S8-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	5.20	3.31	2.27
X5043S8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	5.29	3.43	2.36
X5043M8-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	6.08	4.05	2.81
X5043M8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	6.29	4.19	2.91
X5043S8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	5.20	3.31	2.27
X5043S8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	5.29	3.43	2.36
X5043M8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	6.08	4.05	2.81
X5043M8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	6.29	4.19	2.91
X5043S8-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	5.20	3.31	2.27
X5043S8I-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	5.29	3.43	2.36
X5043M8-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	6.08	4.05	2.81
X5043M8I-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	6.29	4.19	2.91
X5043P-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-Dip	5.20	3.31	2.27
X5043PI-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-Dip	5.29	3.43	2.36
X5043S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	5.20	3.31	2.27
X5043S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	5.29	3.43	2.36
X5043M8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	6.08	4.05	2.81
X5043M8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	6.29	4.19	2.91
X5043V14I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	14-TSSOP	6.29	4.19	2.91
X5045P-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-Dip	5.20	3.31	2.27
X5045PI-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-Dip	5.29	3.43	2.36
X5045S8-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	5.20	3.31	2.27
X5045S8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	5.29	3.43	2.36
X5045M8-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-MSOP	6.08	4.05	2.81
X5045M8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-MSOP	6.29	4.19	2.91
X5045PI-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-Dip	5.29	3.43	2.36
X5045S8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	5.20	3.31	2.27
X5045PI-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-Dip	5.29	3.43	2.36
X5045S8-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	5.20	3.31	2.27
X5045S8I-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	5.29	3.43	2.36
X5045P-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-Dip	5.20	3.31	2.27
X5045PI-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-Dip	5.29	3.43	2.36
X5045S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	5.20	3.31	2.27
X5045S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	5.29	3.43	2.36
X5045M8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-MSOP	6.08	4.05	2.81
X5045M8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-MSOP	6.29	4.19	2.91
X5083P-ND	4.25-4.5V CPU Supervisor with WDT, 8K SPI EE, Reset Low	8-Dip	5.32	3.45	2.37
X5083S8-ND	4.25-4.5V CPU Supervisor with WDT, 8K SPI EE, Reset Low	8-SOIC	5.32	3.45	2.37
X5083S8I-ND	4.25-4.5V CPU Supervisor with WDT, 8K SPI EE, Reset Low	8-SOIC	5.28	3.52	2.44
X5083S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 8K SPI EE, Reset Low	8-SOIC	5.32	3.45	2.37
X5083S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 8K SPI EE, Reset Low	8-SOIC	5.28	3.52	2.44
X5163P-ND	4.25-4.5V CPU Supervisor with WDT, 16K SPI EE, Reset Low	8-Dip	5.30	3.53	2.45
X5163S8-ND	4.25-4.5V CPU Supervisor with WDT, 16K SPI EE, Reset Low	8-SOIC	5.30	3.53	2.45
X5163S8I-ND	4.25-4.5V CPU Supervisor with WDT, 16K SPI EE, Reset Low	8-SOIC	5.54	3.69	2.56
X5163S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 16K SPI EE, Reset Low	8-SOIC	5.30	3.53	2.45
X5163S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 16K SPI EE, Reset Low	8-SOIC	5.93	3.95	2.74
X5165P-ND	4.25-4.5V CPU Supervisor with WDT, 16K SPI EE, Reset High	8-Dip	5.30	3.53	2.45
X5165S8-ND	4.25-4.5V CPU Supervisor with WDT, 16K SPI EE, Reset High	8-SOIC	5.30	3.53	2.45
X5165S8I-ND	4.25-4.5V CPU Supervisor with WDT, 16K SPI EE, Reset High	8-SOIC	5.54	3.69	2.56
X5165S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 16K SPI EE, Reset High	8-SOIC	5.30	3.53	2.45
X5165S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 16K SPI EE, Reset High	8-SOIC	5.93	3.95	2.74
X5325P-ND	4.25-4.5V CPU Supervisor with WDT, 32K SPI EE, Reset High	8-Dip	5.72	3.81	2.64
X5325PI-ND	4.25-4.5V CPU Supervisor with WDT, 32K SPI EE, Reset High	8-Dip	6.35	4.40	3.05
X5325S8-ND	4.25-4.5V CPU Supervisor with WDT, 32K SPI EE, Reset High	8-SOIC	5.72	3.81	2.64
X5325S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 32K SPI EE, Reset High	8-SOIC	8.21	5.82	4.11
X5643P-ND	4.25-4.5V CPU Supervisor with WDT, 64K SPI EE, Reset Low	8-Dip	5.27	3.68	3.19
X5643S14-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 64K SPI EE, Reset Low	14-SOIC	5.27	3.68	3.19
X5643S14I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 64K SPI EE, Reset Low	14-SOIC	9.80	6.84	5.93
X5645P-ND	4.25-4.5V CPU Supervisor with WDT, 64K SPI EE, Reset High	8-Dip	5.27	3.68	3.19
X5645S14-ND	4.25-4.5V CPU Supervisor with WDT, 64K SPI EE, Reset High	14-SOIC	5.27	3.68	3.19

C

intersil CLOCKS, TIMERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CDP68HC68T1E-ND	CMOS Serial Real-Time Clock	16-Dip	8.57	6.07	4.76
CDP68HC68T1EZ-ND	CMOS Serial Real-Time Clock*	16-Dip	8.57	6.07	4.76
CDP68HC68T1M-ND	CMOS Serial Real-Time Clock	20-SOIC	6.98	4.83	3.72
CDP68HC68T1M2-ND	CMOS Serial Real-Time Clock	16-SOIC	8.57	6.07	4.76
CP82C54-ND	8MHz, CMOS Programmable Interval Timer	24-PDip	5.98	3.98	3.08
CP82C54Z-ND	8MHz, CMOS Programmable Interval Timer*	24-PDip	5.98	3.98	3.08
CP82C54-10-ND	10MHz, CMOS Programmable Interval Timer	24-Dip	7.00	4.76	3.73
CP82C54-10Z-ND	10MHz, CMOS Programmable Interval Timer*	24-PDip	7.00	4.76	3.73
CP82C54-12Z-ND	12MHz, CMOS Programmable Interval Timer*	24-Dip	9.84	6.98	5.71
CP82C55A-ND	8MHz, CMOS Programmable Peripheral Interface	40-Dip	5.54	3.69	2.84
CP82C55AZ-ND	8MHz, CMOS Programmable Peripheral Interface*	40-PDip	5.54	3.69	2.84
CS82C52Z-ND	CMOS Serial Controller Interface*	28-PLCC	45.09	34.41	28.48
CS82C54-ND	8MHz, CMOS Programmable Interval Timer	28-PLCC	6.50	4.50	3.48
CS82C54Z-ND	8MHz, CMOS Programmable Interval Timer*	28-PLCC	6.50	4.50	3.48
CS82C54-10-ND	10MHz, CMOS Programmable Interval Timer	28-PLCC	7.75	5.27	4.13
CS82C54-10Z96CT-ND	10MHz, CMOS Programmable Interval Timer*	28-PLCC	7.88	5.36	4.78
CS82C54-10Z96TR-ND	10MHz, CMOS Programmable Interval Timer*	28-PLCC	3149.25/750		
CS82C54Z96CT-ND	8MHz, CMOS Programmable Interval Timer*	28-PLCC	6.63	4.59	4.06
CS82C54Z96TR-ND	8MHz, CMOS Programmable Interval Timer*	28-PLCC	2647.50/750		
CS82C55A-ND	8MHz, CMOS Programmable Peripheral Interface	44-PLCC	6.40	4.43	3.41
CQ82C55AZ-ND	8MHz, CMOS Programmable Peripheral Interface*	44-MQFP	6.88	4.76	3.68
CS82C59A-ND	8MHz, CMOS Priority Interrupt Controller	28-PLCC	6.65	4.61	3.56
CS82C59AZ-ND	8MHz, CMOS Priority Interrupt Controller*	28-PLCC	6.65	4.61	3.56
ICM7555CBAZ-ND	General Purpose Timer*	8-SOIC	.76	.39	.22
ICM7555IPAZ-ND	General Purpose Timer*	8-Dip	.83	.42	.24
ICM7556IPDZ-ND	General Purpose Timer*	14-Dip	1.33	.74	.48

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

DATA CONVERSION

Analog-Digital

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
HI3-574AJN-5Z-ND	Complete 12-Bit ADC*	28-PDip	24.36	18.27	16.24
HI3-574AKN-5Z-ND	Complete 12-Bit ADC*	28-PDip	19.95	14.73	12.68
HI5714/4CB-ND	8-Bit, 40msps ADC	24-SOIC	10.35	7.34	6.00
HI5714/4CBZ-ND	8-Bit, 40msps ADC*	24-SOIC	10.35	7.34	6.00
HI5714/7CBZ-TCT-ND	8-Bit, 75msps ADC*	24-SOIC	14.15	10.29	9.43
HI5714/7CBZ-TTR-ND	8-Bit, 75msps ADC*	24-SOIC	8571.00/1,000		
HI5746KCAZ-ND	10-Bit, 40msps ADC*	28-SSOP	20.14	15.41	12.09
HI5746KCBZ-TCT-ND	10-Bit, 40msps ADC*	28-SOIC	20.14	15.41	13.75
HI5746KCBZ-TTR-ND	10-Bit, 40msps ADC*	28-SOIC	12084.00/1,000		
HI5766KCA-ND	10-Bit, 60msps ADC	28-SSOP	27.50	20.63	16.50
HI5766KCAZ-ND	10-Bit, 60msps ADC*	28-SSOP	27.50	20.63	16.50
HI5766KCBZ-ND	10-Bit, 60msps ADC*	28-SOIC	27.50	20.63	16.50
HI5767/2CA-ND	10-Bit, 20msps ADC with Internal Voltage Ref.	28-SSOP	9.12	6.27	5.07
HI5767/2CAZ-ND	10-Bit, 20msps ADC with Internal Voltage Ref.*	28-SSOP	9.12	6.27	5.07
HI5767/2CBZ-ND	10-Bit, 20msps ADC with Internal Voltage Ref.*	28-SOIC	9.12	6.27	5.07
HI5767/2IAZ-ND	10-Bit, 20msps ADC with Internal Voltage Ref.*	28-SSOP	9.12	6.27	5.07
HI5767/4CA-ND	10-Bit, 40msps ADC with Internal Voltage Ref.	28-SSOP	16.70	12.15	10.12
HI5767/4CAZ-ND	10-Bit, 40msps ADC with Internal Voltage Ref.*	28-SSOP	16.70	12.15	10.12
HI5767/4CBZ-TCT-ND	10-Bit, 40msps ADC with Internal Voltage Ref.*	28-SOIC	16.70	12.15	11.14
HI5767/4CBZ-TTR-ND	10-Bit, 40msps ADC with Internal Voltage Ref.*	28-SOIC	10117.47/1,000		
HI5767/6CAZ-ND	10-Bit, 60msps ADC with Internal Voltage Ref.*	28-SSOP	20.54	15.16	13.04
HI5767/6CBZ-TCT-ND	10-Bit, 60msps ADC with Internal Voltage Ref.*	28-SOIC	20.54	15.16	14.11
HI5767/6CBZ-TTR-ND	10-Bit, 60msps ADC with Internal Voltage Ref.*	28-SOIC	13036.74/1,000		
HI5767/6IBZ-ND	10-Bit, 60msps ADC with Internal Voltage Ref.*	28-SOIC	20.54	15.16	13.04
HI5812JIPZ-ND	12-Bit, CMOS 20 Microsecond, Sampling ADC*	24-Dip	10.99	7.80	6.38
HI7191IBZ-TCT-ND	24-Bit, High Precision, Sigma Delta ADC*	20-SOIC	23.48	17.97	16.03
HI7191IBZ-TTR-ND	24-Bit, High Precision, Sigma Delta ADC*	20-SOIC	14088.00/1,000		
ICL7106CM44Z-ND	3.5 Digit LCD Display ADC*	44-MQFP	6.55	4.54	3.49
ICL7106CPLIS-ND	3.5 Digit LCD Display ADC	40-Dip	3.47	2.21	1.68
ICL7106CPLZ-ND	3.5 Digit LCD Display ADC*	40-Dip	3.65	2.27	1.68
ICL7107CM44-ND	3.5 Digit LED Display ADC	44-MQFP	4.76	2.98	2.27
ICL7107CM44Z-ND	3.5 Digit LED Display ADC*	44-MQFP	4.76	2.98	2.27
ICL7107CPLIS-ND	3.5 Digit LED Display ADC	40-Dip	3.59	2.33	1.77
ICL7107CPLZ-ND	3.5 Digit LED Display ADC*	40-Dip	3.86	2.40	1.78
ICL7107RCPLZ-ND	3.5 Digit LED Display ADC*	40-Dip	6.70	4.64	3.57
ICL7107SCPL-ND	3.5 Digit LED Display ADC	40-Dip	6.90	4.78	3.68
ICL7107SCPLZ-ND	3.5 Digit LED Display ADC*	40-Dip	6.90	4.78	3.68
ICL7126CPLZ-ND	3.5 Digit, Low Power, Single Chip ADC*	40-Dip	5.72	3.81	2.94
ICL7135CPIZ-ND	4.5 Digit BCD Output ADC*	28-Dip	4.34	2.79	2.07
ICL7136CM44-ND	3.5 Digit LCD Low Power Display ADC	44-MQFP	5.56	3.71	2.86
ICL7136CPLIS-ND	3.5 Digit LCD Low Power Display ADC	44-Dip	5.85	3.90	3.00
ICL7136CPLZ-ND	3.5 Digit LCD Low Power Display ADC*	40-Dip	5.85	3.90	3.00

Digital-Analog

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
HI1171JCB-ND	8-Bit, 40msps High Speed DAC	24-SOIC	7.53	5.12	4.01
HI3338KIBZ-ND	8-Bit CMOS Rail-to-Rail DAC*	16-SOIC	9.60	6.52	5.34
HI5660/6IA-ND	8-Bit, 60msps High Speed DAC	28-TSSOP	7.85	5.34	4.19
HI5660IB-ND	8-Bit, 125msps High Speed DAC	28-SOIC	8.45	5.99	4.69
HI5731BIB-ND	12-Bit, 100msps High Speed DAC	28-SOIC	29.33	22.56	18.05
HI5731BIBZ-TCT-ND	12-Bit, 100msps High Speed DAC*	28-SOIC	29.33	22.56	20.31
HI5731BIBZ-TTR-ND	12-Bit, 100msps High Speed DAC*	28-SOIC	18048.00/1,000		
HI5731BIPZ-ND	12-Bit, 100msps High Speed DAC*	28-Dip	29.33	22.56	18.05
HI5735KCB-ND	12-Bit, 80msps High Speed Video DAC	28-SOIC	21.70	16.61	13.02
HI5741BIB-ND	14-Bit, 100msps High Speed DAC	28-SOIC	49.56	38.85	32.15
HI5741BIBZ-TCT-ND	14-Bit, 100msps High Speed DAC*	28-SOIC	49.56	38.85	35.50
HI5741BIBZ-TTR-ND	14-Bit, 100msps High Speed DAC*	28-SOIC	32148.00/1,000		
HI5760BIBZ-TCT-ND	10-Bit, 125msps High Speed DAC*	28-SOIC	10.30	7.31	6.64
HI5760BIBZ-TTR-ND	10-Bit, 125msps High Speed DAC*	28-SOIC	5972.00/1,000		
HI5760IAZ-TCT-ND	10-Bit, 125msps High Speed DAC*	28-TSSOP	10.30	7.31	6.64
HI5760IAZ-TTR-ND	10-Bit, 125msps High Speed DAC*	28-TSSOP	14930.00/2,500		
HI5760/6IB-ND	10-Bit, 60msps High Speed DAC	28-SOIC	8.45	5.99	4.69
HI5760/6IBZ-ND	10-Bit, 60msps High Speed DAC*	28-SOIC	8.45	5.99	4.69
HI5760BIB-ND	10-Bit, 60msps High Speed DAC	28-SOIC	10.30	7.31	5.98
HI5860IBZ-TCT-ND	12-Bit, 130msps High Speed DAC*	28-SOIC	12.85	9.31	8.46
HI5860IBZ-TTR-ND	12-Bit, 130msps High Speed DAC*	28-SOIC	7611.43/1,000		
HI5960IAZ-TCT-ND	14-Bit, 130msps High Speed DAC*	28-TSSOP	14.67	10.68	9.78
HI5960IAZ-TTR-ND	14-Bit, 130msps High Speed DAC*	28-TSSOP	22227.78/2,500		
HI5960IB-ND	14-Bit, 130msps High Speed DAC	28-SOIC	14.67	10.68	8.90
HI5960IBZ-ND	14-Bit, 130msps High Speed DAC*	28-SOIC	14.67	10.68	8.90
ISL5727IN-ND	Dual 10-Bit, +3.3V, 260+msps, High Speed, DAC	48-LQFP	29.94	22.46	17.97
ISL5757IAZ-ND	10-Bit DAC*	28-TSSOP	12.24	8.87	7.26
ISL5757IBZ-ND	10-Bit DAC*	28-SOIC	12.24	8.87	7.26
ISL5761IAZ-ND	10-Bit, +3.3V, 210+msps, HS DAC*	28-TSSOP	10.40	7.37	6.03
ISL5761IBZ-ND	10-Bit, +3.3V, 210+msps, HS DAC*	28-SOIC	10.40	7.37	6.03
ISL5761/2IAZ-ND	10-Bit, +3.3V, 210+msps, HS DAC*	28-TSSOP	10.74	7.62	6.23
ISL5761/2IB-ND	10-Bit, +3.3V, 210+msps, HS DAC	28-SOIC	10.74	7.62	6.23
ISL5761/2IBZ-ND	10-Bit, +3.3V, 210+msps, HS DAC*	28-SOIC	10.74	7.62	6.23
ISL5857IAZ-ND	12-Bit High Speed DAC*	28-TSSOP	23.28	17.81	13.97
ISL5857IBZ-ND	12-Bit High Speed DAC*	28-SOIC	23.28	17.81	13.97
ISL5861IAZ-ND	12-Bit, +3.3V, 210+msps, HS DAC*	28-TSSOP	14.67	10.68	8.90
ISL5861IBZ-ND	12-Bit, +3.3V, 210+msps, HS DAC*	28-SOIC	14.67	10.68	8.90
ISL5861/2IA-ND	12-Bit, +3.3V, 210+msps, HS DAC	28-TSSOP	17.07	12.42	10.36
ISL5861/2IAZ-ND	12-Bit, +3.3V, 210+msps, HS DAC*	28-TSSOP	17.07	12.42	10.36
ISL5861/2IBZ-ND	12-Bit, +3.3V, 210+msps, HS DAC*	28-SOIC	17.07	12.42	10.36
ISL5861IA-ND	12-Bit, +3.3V, 130+msps, HS DAC	28-TSSOP	14.67	10.68	8.90
ISL5927IN-ND	Dual 14-Bit, +3.3V, 260+msps, HS, DAC	48-LQFP	38.92	29.94	23.96
ISL5957IA-ND	14-Bit, +3.3V, 260+msps, HS DAC	28-TSSOP	26.60	19.95	15.96
ISL5957IAZ-ND	14-Bit, +3.3V, 260+msps, HS DAC*	28-TSSOP	26.60	19.95	15.96
ISL5957IBZ-ND	14-Bit, +3.3V, 260+msps, HS DAC*	28-SOIC	26.60	19.95	15.96
ISL5961IA-ND	14-Bit, +3.3V, 130+msps, HS DAC	28-TSSOP	16.76	12.20	10.16
ISL5961IAZ-ND	14-Bit, +3.3V, 130+msps, HS DAC*	28-TSSOP	16.76	12.20	10.16
ISL5961IBZ-ND	14-Bit, +3.3V, 130+msps, HS DAC*	28-SOIC	16.76	12.20	10.16
ISL5961/2IAZ-ND	14-Bit, +3.3V, 130+msps, HS DAC*	28-TSSOP	20.00	15.30	12.00
ISL5961/2IBZ-ND	14-Bit, +3.3V, 130+msps, HS DAC*	28-SOIC	20.00	15.30	12.00

Voltage Inverters

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ICL7660ACBAZA-TCT-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	1.52	.82	.69
ICL7660ACBAZA-TTR-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	1375.00/2,500		
ICL7660ACPAZ-ND	1.5V-10V CMOS Voltage Converter*	8-Dip	1.86	1.06	.72
ICL7660AIBAZA-TCT-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	2.24	1.33	1.12
ICL7660AIBAZA-TTR-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	2275.00/2,500		
ICL7660CBA-ND	1.5V-10V CMOS Voltage Converter	8-SOIC	1.33	.74	.48
ICL7660CBAZA-TCT-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	1.43	.80	.66
ICL7660CBAZA-TTR-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	1275.00/2,500		
ICL7660CBAZ-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	1.33	.74	.48
ICL7660CPA-ND	1.5V-10V CMOS Voltage Converter	8-Dip	1.37	.76	.48
ICL7660CPAZ-ND	1.5V-10V CMOS Voltage Converter*	8-Dip	1.37	.76	.48
ICL7660SCBA-ND	1.5V-12V CMOS Voltage Converter	8-SOIC	1.86	1.06	.72
ICL7660SCBAZ-TCT-ND	1.5V-12V CMOS Voltage Converter*	8-SOIC	1.90	1.12	.94
ICL7660SCBAZ-TTR-ND	1.5V-12V CMOS Voltage Converter*	8-SOIC	1875.00/2,500		
ICL7660SCPA-ND	1.5V-12V CMOS Voltage Converter	8-Dip	2.04	1.17	.80
ICL7660SCPAZ-ND	1.5V-12V CMOS Voltage Converter*	8-Dip	2.04	1.17	.80
ICL7660SIBA-ND	1.5V-12V CMOS Voltage Converter	8-SOIC	1.86	1.14	.80
ICL7660SIBAZ-ND	1.5V-12V CMOS Voltage Converter*	8-SOIC	2.04	1.17	.80
ICL7660SIBAZTCT-ND	1.5V-12V CMOS Voltage Converter*	8-SOIC	2.11	1.21	1.02
ICL7660SIBAZTTR-ND	1.5V-12V CMOS Voltage Converter*	8-SOIC	2075.00/2,500		
ICL7660SIPAZ-ND	1.5V-12V CMOS Voltage Converter*	8-Dip	2.15	1.27	.87
ICL7663SACBAZA-ND	CMOS Prog. Micropower Positive Voltage Reg.*	8-SOIC	3.92	2.43	1.80
ISL5216KIZ-ND	Four-Channel Prog. Digital Down Converter*	196BGA	43.10	40.23	37.35

DCPs FOR LASER DIODE CONTROL OF FIBER OPTIC MODULES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X9520V20I-B-ND	Triple DCP for Laser Diode Control, 2K I^2C EE, POR, 5V System	20-TSSOP	9.66	6.85	5.60
X9521V20I-ND	Dual DCP for Laser Diode Control, 2K I^2C EE	20-TSSOP	8.32	6.33	4.84
X9522V20I-B-ND	Triple DCP for Laser Diode Control, I^2C, 5V System	20-TSSOP	8.71	5.99	4.84
X9523V20I-A-ND	Dual DCP for Laser Diode Control, I^2C, POR, 3.3V System	20-TSSOP	8.14	5.77	4.51
X9523V20I-B-ND	Dual DCP for Laser Diode Control, I^2C, POR, 5V System	20-TSSOP	8.14	5.77	4.51

DIGITALLY CONTROLLED POTENTIOMETERS (XDCP™)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ISL23710UIU10Z-ND	Single DCP, 50KΩ, 128 Tap, Up/Down Interface*	10-MSOP	2.79	1.71	1.08
ISL23710UIU10Z-TCT-ND	Single DCP, 50KΩ, 128 Tap, Up/Down Interface*	10-MSOP	2.79	1.71	1.40
ISL23710UIU10Z-TTR-ND	Single DCP, 50KΩ, 128 Tap, Up/Down Interface*	10-MSOP	2700.00/2,500		
ISL23710WIU10Z-TCT-ND	Single DCP, 10KΩ, 128 Tap, Up/Down Interface*	10-MSOP	2.79	1.71	1.40
ISL23710WIU10Z-TTR-ND	Single DCP, 10KΩ, 128 Tap, Up/Down Interface*	10-MSOP	2700.00/2,500		
ISL23711UIU10Z-ND	Single DCP, 50KΩ, 128 Tap, I^2C*	10-MSOP	2.91	1.79	1.13
ISL23711UIU10Z-TCT-ND	Single DCP, 50KΩ, 128 Tap, I^2C*	10-MSOP	2.91	1.79	1.46
ISL23711UIU10Z-TTR-ND	Single DCP, 50KΩ, 128 Tap, I^2C*	10-MSOP	2820.00/2,500		
ISL23711WIU10Z-TCT-ND	Single DCP, 10KΩ, 128 Tap, I^2C*	10-MSOP	2.91	1.79	1.46
ISL23711WIU10Z-TTR-ND	Single DCP, 10KΩ, 128 Tap, I^2C*	10-MSOP	2820.00/2,500		
ISL90726UIE627Z-TKCT-ND	Single DCP, 50KΩ, 128 Tap*	SC70-6	1.37	.76	.62
ISL90726UIE627Z-TKTR-ND	Single DCP, 50KΩ, 128 Tap*	SC70-6	480.00/1,000		
ISL90726WIE627Z-TKCT-ND	Single DCP, 10KΩ, 128 Tap*	SC70-6	1.37	.76	.62
ISL90726WIE627Z-TKTR-ND	Single DCP, 10KΩ, 128 Tap*	SC70-6	480.00/1,000		
ISL90727UIE627Z-TKCT-ND	Single DCP, 50KΩ, 128 Tap*	SC70-6	1.37	.76	.62
ISL90727UIE627Z-TKTR-ND	Single DCP, 50KΩ, 128 Tap*	SC70-6	480.00/1,000		
ISL90727WIE627Z-TKCT-ND	Single DCP, 10KΩ, 128 Tap*	SC70-6	1.37	.76	.62
ISL90727WIE627Z-TKTR-ND	Single DCP, 10KΩ, 128 Tap*	SC70-6	480.00/1,000		
ISL90810UIU8Z-ND	Single DCP, 50KΩ, 256 Tap, I^2C Bus*	8-MSOP	2.64	1.62	1.13
ISL90810WIU8Z-TKCT-ND	Single DCP, 10KΩ, 256 Tap, I^2C Bus*	8-MSOP	2.64	1.62	1.38
ISL90810WIU8Z-TKTR-ND	Single DCP, 10KΩ, 256 Tap, I^2C Bus*	8-MSOP	1130.00/1,000		
ISL90840UIV2027Z-ND	Quad DCP, 50KΩ, 256 Tap, I^2C Bus*	20-TSSOP	4.29	2.67	1.99
ISL90840WIV2027Z-ND	Quad DCP, 10KΩ, 256 Tap, I^2C Bus*	20-TSSOP	4.29	2.67	1.99
ISL90841UIV1427Z-TKCT-ND	Quad DCP, 50KΩ, 256 Tap, I^2C Bus*	14-TSSOP	4.06	2.52	2.20
ISL90841UIV1427Z-TKTR-ND	Quad DCP, 50KΩ, 256 Tap, I^2C Bus*	14-TSSOP	1870.00/1,000		
ISL90841WIV1427Z-TKCT-ND	Quad DCP, 10KΩ, 256 Tap, I^2C Bus*	14-TSSOP	4.06	2.52	2.20
ISL90841WIV1427Z-TKTR-ND	Quad DCP, 10KΩ, 256 Tap, I^2C Bus*	14-TSSOP	1870.00/1,000		
ISL90842UIV1427Z-TKCT-ND	Quad DCP, 50KΩ, 256 Tap, I^2C Bus*	14-TSSOP	3.83	2.38	2.08
ISL90842UIV1427Z-TKTR-ND	Quad DCP, 50KΩ, 256 Tap, I^2C Bus*	14-TSSOP	1770.00/1,000		
ISL90842WIV1427Z-TKCT-ND	Quad DCP, 10KΩ, 256 Tap, I^2C Bus*	14-TSSOP	3.83	2.38	2.08
ISL90842WIV1427Z-TKTR-ND	Quad DCP, 10KΩ, 256 Tap, I^2C Bus*	14-TSSOP	1770.00/1,000		
ISL95311WIU10Z-TKCT-ND	Single DCP, 10KΩ, 128 Tap,I^2C Interface*	10-MSOP	3.68	2.29	1.99
ISL95311WIU10Z-TKTR-ND	Single DCP, 10KΩ, 128 Tap, I^2C Interface*	10-MSOP	1690.00/1,000		
ISL95710UIU10Z-ND	Single DCP, 50KΩ, 128 Tap, Up/Down Interface*	10-MSOP	2.41	1.45	1.00
ISL95710UIU10Z-TCT-ND	Single DCP, 50KΩ, 128 Tap, Up/Down Interface*	10-MSOP	2.41	1.45	1.22
ISL95710UIU10Z-TTR-ND	Single DCP, 50KΩ, 128 Tap, Up/Down Interface*	10-MSOP	2475.00/2,500		
ISL95710WIU10Z-TCT-ND	Single DCP, 10KΩ, 128 Tap, Up/Down Interface*	10-MSOP	2.41	1.45	1.22
ISL95710WIU10Z-TTR-ND	Single DCP, 10KΩ, 128 Tap, Up/Down Interface*	10-MSOP	2475.00/2,500		
ISL95711UIU10Z-ND	Single DCP, 50KΩ, 128 Tap, I^2C Interface*	10-MSOP	2.41	1.45	1.00
ISL95711UIU10Z-TCT-ND	Single DCP, 50KΩ, 128 Tap, I^2C Interface*	10-MSOP	2.41	1.45	1.22
ISL95711UIU10Z-TTR-ND	Single DCP, 50KΩ, 128 Tap, I^2C Interface*	10-MSOP	2475.00/2,500		
ISL95711WIU10Z-TCT-ND	Single DCP, 10KΩ, 128 Tap, I^2C Interface*	10-MSOP	2.91	1.79	1.46
ISL95711WIU10Z-TTR-ND	Single DCP, 10KΩ, 128 Tap, I^2C Interface*	10-MSOP	2820.00/2,500		
ISL95810UIU8Z-TCT-ND	Single DCP, 50KΩ, 256 Tap, I^2C Bus*	8-MSOP	2.91	1.79	1.52
ISL95810UIU8Z-TTR-ND	Single DCP, 50KΩ, 256 Tap, I^2C Bus*	8-MSOP	3125.00/2,500		
ISL95810WIU8Z-ND	Single DCP, 10KΩ, 256 Tap, I^2C Bus*	8-MSOP	2.76	1.70	1.19
ISL96017UIRT8Z-ND	Single DCP, 50KΩ, 128 Tap I^2C Interface*	8-TDFN	2.67	1.64	1.15
ISL96017WIRT8Z-ND	Single DCP, 10KΩ, 128 Tap I^2C Interface*	8-TDFN	2.67	1.64	1.15
X9015US8Z-2.7-ND	Single DCP, 50KΩ, 32 Tap, 3-Wire Up/Down*	8-SOIC	1.37	.76	.48
X9110TV14IZ-2.7-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Dual Supply*	14-TSSOP	8.95	6.16	4.97
X9111TV14IZ-2.7T1CT-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Single Supply*	14-TSSOP	8.95	6.16	5.57
X9111TV14IZ-2.7T1TR-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Single Supply*	14-TSSOP	12420.00/2,500		
X9116WM8IZ-2.7T1CT-ND	Single DCP, 10KΩ, 16 Tap, 3-Wire Up/Down*	8-MSOP	3.18	1.97	1.69
X9116WM8IZ-2.7T1TR-ND	Single DCP, 10KΩ, 16 Tap, 3-Wire Up/Down*	8-MSOP	3524.50/2,500		
X9119TV14IZ-2.7T1CT-ND	Single DCP, 100KΩ, 1024 Tap, 2-Wire, Single Supply*	14-TSSOP	9.74	6.62	6.02
X9119TV14IZ-2.7T1TR-ND	Single DCP, 100KΩ, 1024 Tap, 2-Wire, Single Supply*	14-TSSOP	13530.00/2,500		
X9221AUSIZT1CT-ND	Dual DCP, 50KΩ, 64 Tap, 2-Wire Bus*	20-SOIC	7.58	5.16	4.60
X9221AUSIZT1TR-ND	Dual DCP, 50KΩ, 64 Tap, 2-Wire Bus*	20-SOIC	4039.00/1,000		
X9221AWSIZT1CT-ND	Dual DCP, 10KΩ, 64 Tap, 2-Wire Bus*	20-SOIC	7.58	5.16	4.60
X9221AWSIZT1TR-ND	Dual DCP, 10KΩ, 64 Tap, 2-Wire Bus*	20-SOIC	4039.00/1,000		
X9221AYSIZT1CT-ND	Dual DCP, 2KΩ, 64 Tap, 2-Wire Bus*	20-SOIC	7.58	5.16	4.60

*** RoHS Compliant**

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X9221AYSIZT1TR-ND	Dual DCP, 2KΩ, 64 Tap, 2-Wire Bus*	20-SOIC	4039.00/1,000		
X9241AMVIZ-ND	Quad DCP, 2KΩ, 64 Tap, 2-Wire Bus*	20-TSSOP	11.68	8.46	6.23
X9241AYVIZ-ND	Quad DCP, 50KΩ, 64 Tap, 2-Wire Bus*	20-TSSOP	11.68	8.46	6.23
X9251US24IZ-2.7T1CT-ND	Quad DCP, 50KΩ, 256 Tap, SPI Single Supply*	24-SOIC	14.96	10.88	9.52
X9251US24IZ-2.7T1TR-ND	Quad DCP, 50KΩ, 256 Tap, SPI Single Supply*	24-SOIC	8160.00/1,000		
X9252WV24IZ-2.7-ND	Quad DCP, 10KΩ, 256 Tap, 2-Wire Up/Down Interface*	24-TSSOP	6.35	4.40	3.39
X9252YV24IZ-2.7-ND	Quad DCP, 2.8KΩ, 256 Tap, 2-Wire Up/Down Interface*	24-TSSOP	6.35	4.40	3.39
X9259UV24IZT1CT-ND	Quad DCP, 50KΩ, 256 Tap, 2-Wire Single Supply*	24-TSSOP	14.28	10.39	9.09
X9259UV24IZT1TR-ND	Quad DCP, 50KΩ, 256 Tap, 2-Wire Single Supply*	24-TSSOP	19470.00/2,500		
X9261TS24Z-ND	Dual DCP, 100KΩ, 256 Tap, SPI Single Supply*	24-SOIC	8.16	5.78	4.53
X9271TV14IZ-2.7T1CT-ND	Single DCP, 100KΩ, 256 Tap, SPI Single Supply*	14-TSSOP	8.64	5.94	5.37
X9271TV14IZ-2.7T1TR-ND	Single DCP, 100KΩ, 256 Tap, SPI Single Supply*	14-TSSOP	11980.00/2,500		
X9271UV14IZ-2.7T1CT-ND	Single DCP, 50KΩ, 256 Tap, SPI Single Supply*	14-TSSOP	8.64	5.94	5.37
X9271UV14IZ-2.7T1TR-ND	Single DCP, 50KΩ, 256 Tap, SPI Single Supply*	14-TSSOP	11980.00/2,500		
X9279TV14IZ-2.7T1CT-ND	Single DCP, 100KΩ, 256 Tap, 2-Wire, Single Supply*	14-TSSOP	8.64	5.94	5.37
X9279TV14IZ-2.7T1TR-ND	Single DCP, 100KΩ, 256 Tap, 2-Wire, Single Supply*	14-TSSOP	11980.00/2,500		
X9279UV14Z-2.7T1CT-ND	Single DCP, 50KΩ, 256 Tap, 2-Wire, Single Supply*	14-TSSOP	7.50	5.10	4.55
X9279UV14Z-2.7T1TR-ND	Single DCP, 50KΩ, 256 Tap, 2-Wire, Single Supply*	14-TSSOP	9975.00/2,500		
X9313WSZT1CT-ND	Single DCP, 10KΩ, 32 Tap, 3-Wire*	8-SOIC	3.04	1.87	1.59
X9313WSZT1TR-ND	Single DCP, 10KΩ, 32 Tap, 3-Wire*	8-SOIC	3275.00/2,500		
X9313ZSZT1CT-ND	Single DCP, 1KΩ, 32 Tap, 3-Wire*	8-SOIC	3.04	1.87	1.59
X9313ZSZT1TR-ND	Single DCP, 1KΩ, 32 Tap, 3-Wire*	8-SOIC	3250.00/2,500		
X9314WSZT1CT-ND	Single DCP, 10KΩ, 32 Tap, Log Taper*	8-SOIC	3.04	1.87	1.59
X9314WSZT1TR-ND	Single DCP, 10KΩ, 32 Tap, Log Taper*	8-SOIC	3250.00/2,500		
X9315WMIZ-2.7T1CT-ND	Single DCP, 10KΩ, 32 Tap, 3-Wire Interface*	8-MSOP	4.45	2.87	2.50
X9315WMIZ-2.7T1TR-ND	Single DCP, 10KΩ, 32 Tap, 3-Wire Interface*	8-MSOP	5297.50/2,500		
X9315WSZ-ND	Single DCP, 10KΩ, 32 Tap, 3-Wire Interface*	8-SOIC	3.04	1.87	1.31
X9317UM8IZ-2.7-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-MSOP	6.19	4.12	3.18
X9317US8IZ-2.7T1CT-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-SOIC	5.23	3.48	3.08
X9317US8IZ-2.7T1TR-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-SOIC	6697.50/2,500		
X9317UV8ZT1CT-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-TSSOP	4.82	3.01	2.66
X9317UV8ZT1TR-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-TSSOP	5749.10/2,500		
X9317WS8IZ-2.7T1CT-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-SOIC	5.23	3.48	3.08
X9317WS8IZ-2.7T1TR-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-SOIC	6698.33/2,500		
X9317WV8IZ-2.7-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-TSSOP	6.19	4.12	3.18
X9317ZS8IZ-2.7-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down Interface*	8-SOIC	5.23	3.48	2.68
X9318WS8Z-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Interface*	8-SOIC	3.30	2.04	1.47
X9319US8IZ-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Interface*	8-SOIC	3.51	2.18	1.62
X9319WS8IZT1CT-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Interface*	8-SOIC	3.51	2.18	1.90
X9319WS8IZT1TR-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Interface*	8-SOIC	4027.50/2,500		
X93154UM8IZ-3T1CT-ND	Single DCP, 50KΩ, 32 Tap, 3-Wire Interface*	8-MSOP	1.52	.82	.69
X93154UM8IZ-3T1TR-ND	Single DCP, 50KΩ, 32 Tap, 3-Wire Interface*	8-MSOP	1375.00/2,500		
X93154UU8IZ-3T1CT-ND	Single DCP, 50KΩ, 32 Tap, 3-Wire Interface*	8-TDFN	1.52	.82	.69
X93154UU8IZ-3T1TR-ND	Single DCP, 50KΩ, 32 Tap, 3-Wire Interface*	8-TDFN	1924.34/3,500		
X93155UM8IZT1CT-ND	Single DCP, 50KΩ, 32 Tap, 3-Wire Interface*	8-MSOP	1.63	.88	.73
X93155UM8IZT1TR-ND	Single DCP, 50KΩ, 32 Tap, 3-Wire Interface*	8-MSOP	1449.80/2,500		
X93156UM8IZ-2.7T1CT-ND	Single DCP, 50KΩ, 32 Tap, Up/Down Interface*	8-MSOP	1.63	.88	.71
X93156UM8IZ-2.7T1TR-ND	Single DCP, 50KΩ, 32 Tap, Up/Down Interface*	8-MSOP	1320.00/2,500		
X93156WM8IZ-2.7T1CT-ND	Single DCP, 12.5KΩ, 32 Tap, Up/Down Interface*	8-MSOP	1.63	.88	.73
X93156WM8IZ-2.7T1TR-ND	Single DCP, 12.5KΩ, 32 Tap, Up/Down Interface*	8-MSOP	1450.00/2,500		
X9400WV24IZ-2.7T1CT-ND	Quad DCP, 10KΩ, 64 Tap, SPI*	24-TSSOP	13.29	9.67	8.46
X9400WV24IZ-2.7T1TR-ND	Quad DCP, 10KΩ, 64 Tap, SPI*	24-TSSOP	18120.00/2,500		
X9401WS24IZ-2.7T1CT-ND	Quad DCP, 10KΩ, 64 Tap, SPI*	24-SOIC	11.11	7.88	6.84
X9401WS24IZ-2.7T1TR-ND	Quad DCP, 10KΩ, 64 Tap, SPI*	24-SOIC	5796.00/1,000		
X9408WV24IZ-2.7T1CT-ND	Quad DCP, 10KΩ, 64 Tap, 2-Wire Bus*	24-TSSOP	13.29	9.67	8.46
X9408WV24IZ-2.7T1TR-ND	Quad DCP, 10KΩ, 64 Tap, 2-Wire Bus*	24-TSSOP	18120.00/2,500		
X9408YV24IZ-2.7T1CT-ND	Quad DCP, 2.5KΩ, 64 Tap, 2-Wire Bus*	24-TSSOP	13.29	9.67	8.46
X9408YV24IZ-2.7T1TR-ND	Quad DCP, 2.5KΩ, 64 Tap, 2-Wire Bus*	24-TSSOP	18120.00/2,500		
X9409WS24IZ-2.7T1CT-ND	Quad DCP, 10KΩ, 64 Tap, 2-Wire Bus*	24-SOIC	10.05	7.13	6.19
X9409WS24IZ-2.7T1TR-ND	Quad DCP, 10KΩ, 64 Tap, 2-Wire Bus*	24-SOIC	5244.00/1,000		
X9409WV24IZ-2.7-ND	Quad DCP, 10KΩ, 64 Tap, 2-Wire Bus*	24-TSSOP	13.29	9.67	7.25
X9410WV24IZT1CT-ND	Dual DCP, 10KΩ, 64 Tap, SPI Bus*	24-TSSOP	9.07	6.24	5.64
X9410WV24IZT1TR-ND	Dual DCP, 10KΩ, 64 Tap, SPI Bus*	24-TSSOP	12596.85/2,500		
X9421WS16IZ-2.7T1CT-ND	Single DCP, 10KΩ, 64 Tap, SPI Bus*	16-SOIC	5.77	3.85	3.41
X9421WS16IZ-2.7T1TR-ND	Single DCP, 10KΩ, 64 Tap, SPI Bus*	16-SOIC	2959.26/1,000		
X9421WV14IZ-2.7T1CT-ND	Single DCP, 10KΩ, 64 Tap, SPI Bus*	14-TSSOP	6.53	4.52	4.00
X9421WV14IZ-2.7T1TR-ND	Single DCP, 10KΩ, 64 Tap, SPI Bus*	14-TSSOP	8697.83/2,500		
X9429WS16IZ-2.7T1CT-ND	Single DCP, 10KΩ, 64 Tap, 2-Wire Bus*	16-SOIC	5.77	3.85	3.41
X9429WS16IZ-2.7T1TR-ND	Single DCP, 10KΩ, 64 Tap, 2-Wire Bus*	16-SOIC	2959.00/1,000		
X9429WV14IZ-2.7T1CT-ND	Single DCP, 10KΩ, 64 Tap, 2-Wire Bus*	14-TSSOP	6.53	4.52	4.00
X9429WV14IZ-2.7T1TR-ND	Single DCP, 10KΩ, 64 Tap, 2-Wire Bus*	14-TSSOP	8697.50/2,500		
X9455UV24IZ-2.7-ND	Dual DCP, 2.7V, 50KΩ, 256 Tap 2-Wire*	24-TSSOP	6.85	4.75	3.65
X9455WV24IZ-2.7-ND	Dual DCP, 2.7V, 10KΩ, 256 Tap 2-Wire*	24-TSSOP	6.85	4.75	3.65
X9460KV14IZ-2.7T1CT-ND	Dual DCP, 33KΩ, 32 Tap*	14-TSSOP	5.06	3.22	2.84
X9460KV14IZ-2.7T1TR-ND	Dual DCP, 33KΩ, 32 Tap*	14-TSSOP	6127.50/2,500		
X9511WSIZ-ND	Single DCP, 10KΩ, 32 Tap, Pushpot*	8-SOIC	3.54	2.20	1.63
X9511WSZ-ND	Single DCP, 10KΩ, 32 Tap, Pushpot*	8-SOIC	3.04	1.87	1.31
X9511WSZT1CT-ND	Single DCP, 10KΩ, 32 Tap, Pushpot*	8-SOIC	3.06	1.89	1.63
X9511WSZT1TR-ND	Single DCP, 10KΩ, 32 Tap, Pushpot*	8-SOIC	3400.00/2,500		
X95820WV14IZ-2.7T1CT-ND	Dual DCP, 10KΩ, 256 Tap, 2-Wire Bus*	14-TSSOP	3.48	2.16	1.89
X95820WV14IZ-2.7T1TR-ND	Dual DCP, 10KΩ, 256 Tap, 2-Wire Bus*	14-TSSOP	4000.00/2,500		
X95840UV20IZ-2.7T1CT-ND	Quad DCP, 50KΩ, 256 Tap, 2-Wire Bus*	20-TSSOP	5.59	3.72	3.29
X95840UV20IZ-2.7T1TR-ND	Quad DCP, 50KΩ, 256 Tap, 2-Wire Bus*	20-TSSOP	7150.00/2,500		
X95840WV20IZ-2.7T1CT-ND	Quad DCP, 10KΩ, 256 Tap, 2-Wire Bus*	20-TSSOP	5.59	3.72	3.29
X95840WV20IZ-2.7T1TR-ND	Quad DCP, 10KΩ, 256 Tap, 2-Wire Bus*	20-TSSOP	7150.00/2,500		
X9C102P-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	4.26	2.65	1.96
X9C102S-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.26	2.65	1.96

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X9C102SI-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.03	3.21	2.44
X9C102SIZT2CT-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down*	8-SOIC	5.03	3.21	2.83
X9C102SIZT2TR-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down*	8-SOIC	6097.50/2,500		
X9C103P-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	4.48	2.80	1.92
X9C103PZ-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down*	8-Dip	4.48	2.80	1.92
X9C103PI-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	5.20	3.46	2.40
X9C103S-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.48	2.80	1.92
X9C103SI-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.20	3.46	2.40
X9C103SIZT1CT-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down*	8-SOIC	5.20	3.46	2.93
X9C103SIZT1TR-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down*	8-SOIC	6000.00/2,500		
X9C104P-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	4.48	2.80	1.92
X9C104PI-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	5.20	3.46	2.40
X9C104S-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.48	2.80	1.92
X9C104SI-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.20	3.46	2.40
X9C104SIZT1CT-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down*	8-SOIC	5.20	3.46	2.93
X9C104SIZT1TR-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down*	8-SOIC	6000.00/2,500		
X9C303P-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-Dip	4.26	2.65	1.96
X9C303PI-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-Dip	5.03	3.21	2.44
X9C303S8-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-SOIC	4.26	2.65	1.96
X9C303S8I-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-SOIC	5.03	3.21	2.44
X9C303S8IZT1CT-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper*	8-SOIC	5.03	3.21	2.83
X9C303S8IZT1TR-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper*	8-SOIC	6097.50/2,500		
X9C303V8-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-TSSOP	4.82	3.01	2.30
X9C303V8I-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-TSSOP	5.59	3.72	2.88
X9C503P-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	4.26	2.65	1.96
X9C503PI-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	5.03	3.21	2.44
X9C503S-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.03	3.21	2.44
X9C503SI-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.03	3.21	2.44
X9C503SIZT1CT-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down*	8-SOIC	5.03	3.21	2.83
X9C503SIZT1TR-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down*	8-SOIC	6097.50/2,500		
X9015US8-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-SOIC	1.29	.70	.44
X9015US8I-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-SOIC	1.52	.82	.55
X9015UM8-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-MSOP	1.43	.80	.51
X9015UM8I-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-MSOP	1.73	.96	.64
X9015US8-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-SOIC	1.37	.76	.48
X9110TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Dual Supply	14-TSSOP	6.78	4.69	3.61
X9110TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Dual Supply	14-TSSOP	8.14	5.77	4.51
X9111TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Single Supply	14-TSSOP	6.78	4.69	3.61
X9111TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Single Supply	14-TSSOP	8.14	5.77	4.51
X9116WS8-ND	Single DCP, 5V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-SOIC	2.18	1.29	.87
X9116WS8I-ND	Single DCP, 5V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-SOIC	2.62	1.56	1.09
X9116WM8-ND	Single DCP, 5V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-MSOP	2.50	1.51	1.04
X9116WM8I-ND	Single DCP, 5V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-MSOP	3.01	1.85	1.30
X9116WS8-2.7-ND	Single DCP, 2.7V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-SOIC	2.34	1.41	.96
X9116WS8I-2.7-ND	Single DCP, 2.7V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-SOIC	2.79	1.71	1.20
X9118TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^2C, Dual Supply	14-TSSOP	6.78	4.69	3.61
X9118TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^2C, Dual Supply	14-TSSOP	8.14	5.77	4.51
X9119TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^2C, Single Supply	14-TSSOP	6.78	4.69	3.61
X9119TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^2C, Single Supply	14-TSSOP	8.14	5.77	4.51
X9119TV14-2.7-ND	Single DCP, 2.7V, 100KΩ, 1024 Tap, I^2C, Single Supply	14-TSSOP	7.45	5.07	3.97
X9119TV14I-2.7-ND	Single DCP, 2.7V, 100KΩ, 1024 Tap, I^2C, Single Supply	14-TSSOP	8.95	6.16	4.97
X9221UPI-ND	Dual DCP, 5V, 50KΩ, 64 Tap, I^2C	20-Dip	5.98	4.55	3.48
X9241AUP-ND	Quad DCP, 5V, 50KΩ, 64 Tap, I^2C	20-Dip	8.45	5.99	4.23
X9241AWS-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C	20-SOIC	8.45	5.99	4.23
X9241AWVI-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C	20-TSSOP	11.68	8.46	6.23
X9241UVI-ND	Quad DCP, 5V, 50KΩ, 64 Tap, I^2C	20-TSSOP	11.16	7.79	6.75
X9250TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	11.36	8.06	5.93
X9250TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	13.60	9.89	7.42
X9250TS24-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	12.24	8.87	6.53
X9250TS24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	14.96	10.88	8.16
X9250US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	13.60	9.89	7.42
X9250US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	14.96	10.88	8.16
X9251TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	11.36	8.06	5.93
X9251TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	13.60	9.89	7.42
X9251TS24-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	12.22	8.86	6.52
X9251TS24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	14.96	10.88	8.16
X9251US24-ND	Quad DCP, 5V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	11.36	8.06	5.93
X9251US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	13.60	9.89	7.42
X9251US24-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	12.22	8.86	6.52
X9251US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	14.96	10.88	8.16

***RoHS Compliant**

(Continued)

intersil DIGITALLY CONTROLLED POTENTIOMETERS (XDCP™) *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X9252TV24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, 2-Wire Up/Down	24-TSSOP	5.46	3.81	3.31
X9252WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 256 Tap, 2-Wire Up/Down	24-TSSOP	6.35	4.40	3.39
X9252YV24I-2.7-ND	Quad DCP, 2.7V, 2.8KΩ, 256 Tap, 2-Wire Up/Down	24-TSSOP	6.35	4.40	3.39
X9258TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	10.42	7.39	6.04
X9258TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	12.76	9.25	7.56
X9258TS24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	13.73	9.99	8.32
X9258US24-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	10.42	7.39	6.04
X9258US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	12.76	9.25	7.56
X9258US24-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	11.48	8.14	6.67
X9258US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	13.73	9.99	8.32
X9259TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	11.36	8.06	5.93
X9259TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	13.60	9.89	7.42
X9259TS24-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	12.22	8.86	6.52
X9259US24-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	11.36	8.06	5.93
X9259US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	13.60	9.89	7.42
X9259US24-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	12.22	8.86	6.52
X9260TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	8.16	5.78	4.53
X9260US24-ND	Dual DCP, 5V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	8.16	5.78	4.53
X9261TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	8.16	5.78	4.53
X9261US24-ND	Dual DCP, 5V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	8.16	5.78	4.53
X9268TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, I^{2}C, Dual Supply	24-SOIC	8.16	5.78	4.53
X9269TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	8.16	5.78	4.53
X9269US24-ND	Dual DCP, 5V, 50KΩ, 256 Tap, I^{2}C, Single Supply	24-SOIC	8.16	5.78	4.53
X9271TV14-ND	Single DCP, 5V, 100KΩ, 256 Tap, SPI	14-TSSOP	6.80	4.71	3.64
X9271TV14-2.7-ND	Single DCP, 2.7V, 100KΩ, 256 Tap, SPI	14-TSSOP	7.50	5.10	3.99
X9271UV14-ND	Single DCP, 5V, 50KΩ, 256 Tap, SPI	14-TSSOP	6.80	4.71	3.64
X9271UV14-2.7-ND	Single DCP, 2.7V, 50KΩ, 256 Tap, SPI	14-TSSOP	7.50	5.10	3.99
X9279TV14-ND	Single DCP, 5V, 100KΩ, 256 Tap, I^{2}C	14-TSSOP	6.80	4.71	3.64
X9279TV14-2.7-ND	Single DCP, 2.7V, 100KΩ, 256 Tap, I^{2}C	14-TSSOP	7.50	5.10	3.99
X9279UV14-ND	Single DCP, 5V, 50KΩ, 256 Tap, I^{2}C	14-TSSOP	6.80	4.71	3.64
X9312WS-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	2.88	2.20	1.68
X9313US-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.04	1.87	1.31
X9313USI-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.54	2.20	1.63
X9313UMI-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	4.18	2.60	1.92
X9313WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.04	1.87	1.31
X9313WSI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.54	2.20	1.63
X9313ZS-ND	Single DCP, 5V, 1KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.04	1.87	1.18
X9313ZSI-ND	Single DCP, 5V, 1KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.54	2.20	1.63
X9314WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, Log Taper, 3-Wire Up/Down	8-SOIC	3.04	1.87	1.31
X9315TS-ND	Single DCP, 5V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.04	1.87	1.31
X9315TSI-ND	Single DCP, 5V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.54	2.20	1.63
X9315TS-2.7-ND	Single DCP, 2.7V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.57	2.21	1.59
X9315TSI-2.7-ND	Single DCP, 2.7V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.97	2.47	1.84
X9315US-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.04	1.87	1.31
X9315USI-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.54	2.20	1.63
X9315UMI-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.80	2.36	1.76
X9315US-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.57	2.21	1.59
X9315USI-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.97	2.47	1.84
X9315UM-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.65	2.27	1.67
X9315UMI-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	4.18	2.60	1.92
X9315WP-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-Dip	3.04	1.87	1.31
X9315WPI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-Dip	3.54	2.20	1.63
X9315WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.04	1.87	1.31
X9315WSI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.54	2.20	1.63
X9315WM-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	4.18	2.60	1.92
X9315WMI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	4.18	2.60	1.92
X9315WS-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.24	2.00	1.44
X9315WSI-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	3.89	2.42	1.80
X9315WM-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.65	2.27	1.68
X9315WMI-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	4.45	2.87	2.12
X9317US8-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.26	2.65	1.96
X9317US8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.03	3.21	2.44
X9317UM8-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	4.82	3.01	2.30
X9317UM8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	5.59	3.72	2.88
X9317UV8-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	4.82	3.01	2.30
X9317UV8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	5.59	3.72	2.88
X9317US8-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.51	2.82	2.15
X9317US8I-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.23	3.48	2.68
X9317UM8-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	5.13	3.33	2.55
X9317UM8I-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	6.19	4.12	3.18
X9317UV8-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	5.13	3.33	2.55
X9317UV8I-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	6.19	4.12	3.18
X9317WP-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	4.26	2.65	1.96
X9317WS8-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.26	2.65	1.96
X9317WS8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.03	3.21	2.44
X9317WM8-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	4.82	3.01	2.30
X9317WM8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	5.59	3.72	2.88
X9317WV8-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	4.82	3.01	2.30
X9317WV8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	5.59	3.72	2.88
X9317WS8-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.51	2.82	2.15
X9317WS8I-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.23	3.48	2.68
X9317WM8-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	5.13	3.33	2.55
X9317WM8I-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	6.19	4.12	3.18
X9317WV8-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	5.13	3.33	2.55
X9317WV8I-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	6.19	4.12	3.18
X9317ZS8-ND	Single DCP, 5V, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.26	2.65	1.96
X9317ZS8I-ND	Single DCP, 5V, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	5.03	3.21	2.44
X9319UP8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.51	2.18	1.62
X9319WP8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.51	2.18	1.62
X9319US8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.51	2.18	1.62
X9319WS8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.51	2.18	1.62
X9400WP24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-Dip	9.38	6.46	4.70
X9400WS24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	8.45	5.99	4.23
X9400WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	10.10	7.16	5.27
X9400WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	10.10	7.16	5.27
X9400WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	12.35	8.95	6.59
X9400WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	9.29	6.39	4.65
X9400WS24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	11.11	7.88	5.80
X9400WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	11.11	7.88	5.80
X9400WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	13.29	9.67	7.25
X9401WS24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	24-SOIC	8.45	5.99	4.23
X9401WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	24-SOIC	10.10	7.16	5.27
X9401WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	24-TSSOP	10.10	7.16	5.27
X9401WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	24-TSSOP	12.35	8.95	6.59
X9401WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	24-SOIC	9.29	6.39	4.65
X9401WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	24-TSSOP	11.11	7.88	5.80
X9408WS24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-SOIC	8.45	5.99	4.23
X9408WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap,I^{2}C, Dual Supply	24-SOIC	10.10	7.16	5.27
X9408WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	10.10	7.16	5.27
X9408WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	12.35	8.95	6.59
X9408WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-SOIC	9.29	6.39	4.65
X9408WS24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap,I^{2}C, Dual Supply	24-SOIC	11.11	7.88	5.80
X9408WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	11.11	7.88	5.80
X9408WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	13.29	9.67	7.25
X9409WS24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-SOIC	7.95	5.41	3.82
X9409WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-SOIC	9.55	6.57	4.78
X9409WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-TSSOP	10.10	7.16	5.27
X9409WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-TSSOP	12.35	8.95	6.59
X9409WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-SOIC	8.40	5.95	4.20
X9409WS24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-SOIC	10.05	7.13	5.25
X9409WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-TSSOP	11.11	7.88	5.80
X9409WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	24-TSSOP	13.29	9.67	7.25
X9410WS24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	6.32	4.21	3.23
X9410WS24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	7.58	5.16	4.04
X9410WV24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	7.58	5.16	4.04
X9410WV24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	9.07	6.24	5.04
X9410WS24-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	6.65	4.61	3.56
X9410WS24I-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	7.97	5.65	4.43
X9410WV24-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	7.97	5.65	4.43
X9410WV24I-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	9.98	6.79	5.55
X9418WS24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-SOIC	6.60	4.57	3.17
X9418WS24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-SOIC	7.92	5.61	3.96
X9418WV24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	7.92	5.61	3.96
X9418WV24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	9.89	6.72	4.95
X9418WV24-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-TSSOP	8.69	5.98	4.35
X9418WS24I-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	24-SOIC	8.69	5.98	4.35
X9420WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	16-SOIC	4.51	2.82	2.15
X9420WS16I-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	16-SOIC	5.25	3.50	2.70
X9420WV14I-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	14-TSSOP	6.19	4.12	3.18
X9420WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	16-SOIC	4.87	3.10	2.36
X9420WS16I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	16-SOIC	5.77	3.85	2.96
X9420WV14-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	14-TSSOP	5.43	3.62	2.80
X9420WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	14-TSSOP	6.53	4.52	3.48
X9421WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	4.51	2.82	2.15
X9421WS16I-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	5.25	3.50	2.70
X9421WV14-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	14-TSSOP	5.13	3.33	2.55
X9421WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	4.87	3.10	2.36
X9421WS16I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	5.77	3.85	2.96
X9421WV14-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	14-TSSOP	5.43	3.62	2.80
X9421WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	14-TSSOP	6.53	4.52	3.48
X9428WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	16-SOIC	4.51	2.82	2.15
X9428WS16I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	16-SOIC	5.25	3.50	2.70
X9428WV14-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	14-TSSOP	5.13	3.33	2.55
X9428WV14I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	14-TSSOP	6.19	4.12	3.18
X9428WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	16-SOIC	4.87	3.10	2.36
X9428WS16I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	16-SOIC	5.77	3.85	2.96
X9428WV14-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	14-TSSOP	5.43	3.62	2.80
X9428WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Dual Supply	14-TSSOP	6.53	4.52	3.48
X9429WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	16-SOIC	4.51	2.82	2.15
X9429WS16I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	16-SOIC	5.25	3.50	2.70
X9429WV14-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	14-TSSOP	5.13	3.33	2.55
X9429WV14I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^{2}C, Single Supply	14-TSSOP	6.19	4.12	3.18
X9429WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	16-SOIC	4.87	3.10	2.36
X9429WV14-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	14-TSSOP	5.43	3.62	2.80
X9429WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^{2}C, Single Supply	14-TSSOP	5.23	3.48	2.68
X9455TV24I-2.7-ND	Dual DCP, 2.7V, 100KΩ, 256 Tap, Two-Wiper	24-TSSOP	6.85	4.75	3.65
X9455UV24I-2.7-ND	Dual DCP, 2.7V, 50KΩ, 256 Tap, Two-Wiper	24-TSSOP	6.85	4.75	3.65
X9455WV24I-2.7-ND	Dual DCP, 2.7V, 10KΩ, 256 Tap, Two-Wiper	24-TSSOP	6.85	4.75	3.65
X9455YV24I-2.7-ND	Dual DCP, 2.7V, 2.8KΩ, 256 Tap, Two-Wiper	24-TSSOP	6.85	4.75	3.65
X9511WP-ND	Single DCP, 5V, 10KΩ, 32 Tap, Pushpot	8-Dip	3.04	1.87	1.31
X9511WPI-ND	Single DCP, 5V, 10KΩ, 32 Tap, Pushpot	8-Dip	3.54	2.20	1.63
X9511WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, Pushpot	8-SOIC	3.04	1.87	1.31
X9511WSI-ND	Single DCP, 5V, 10KΩ, 32 Tap, Pushpot	8-SOIC	3.54	2.20	1.63

***** RoHS Compliant*

DIGITALLY CONTROLLED POTENTIOMETERS WITH OP AMP

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X9430WS24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, SPI	24-SOIC	4.97	3.47	3.01
X9430WS24I-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, SPI	24-SOIC	5.22	3.65	3.16
X9430WV24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, SPI	24-TSSOP	4.97	3.47	3.01
X9430WS24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, SPI	24-SOIC	9.14	6.38	5.53
X9430WS24I-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, SPI	24-SOIC	5.22	3.65	3.16
X9430WV24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, SPI	24-TSSOP	4.97	3.47	3.01
X9438WV24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, I^{2}C	24-TSSOP	4.97	3.47	3.01
X9438WV24I-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, I^{2}C	24-TSSOP	5.22	3.65	3.16
X9438WV24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, I^{2}C	24-TSSOP	4.97	3.47	3.01

DRIVERS/RECEIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CS82C84AZ-ND	CMOS Clock Generator Driver*	20-PLCC	8.05	5.48	4.29
EL2141CSZ-ND	150MHz Differential Twisted Pair Driver*	8-SOIC	5.33	3.55	2.74
EL2141CSZ-T7CT-ND	150MHz Differential Twisted Pair Driver*	8-SOIC	5.59	3.72	3.30
EL2141CSZ-T7TR-ND	150MHz Differential Twisted Pair Driver*	8-SOIC	2870.00/1,000		
EL2142CSZ-ND	Differential Line Receiver*	8-SOIC	5.33	3.55	2.74
EL2142CSZ-T7CT-ND	Differential Line Receiver*	8-SOIC	5.59	3.72	3.30
EL2142CSZ-T7TR-ND	Differential Line Receiver*	8-SOIC	2870.00/1,000		
EL4543IUZ-ND	Triple Differential Twisted Pair Driver*	24-QSOP	5.20	3.31	2.27
EL5170IS-ND	100MHz Differential Twisted Pair Driver	8-SOIC	1.89	1.08	.72
EL5170ISZ-T7CT-ND	100MHz Differential Twisted Pair Driver*	8-SOIC	2.11	1.21	1.02
EL5170ISZ-T7TR-ND	100MHz Differential Twisted Pair Driver*	8-SOIC	830.00/1,000		
EL5170IY-ND	100MHz Differential Twisted Pair Driver	8-MSOP	1.89	1.08	.72
EL5170IYZ-T7CT-ND	100MHz Differential Twisted Pair Driver*	8-MSOP	2.11	1.21	1.02
EL5170IYZ-T7TR-ND	100MHz Differential Twisted Pair Driver*	8-MSOP	1245.00/1,500		
EL5171IS-ND	250MHz Differential Twisted Pair Driver	8-SOIC	2.28	1.35	.92
EL5171ISZ-ND	250MHz Differential Twisted Pair Driver*	8-SOIC	2.28	1.35	.92
EL5172IS-ND	250MHz Differential Line Receiver	8-SOIC	1.89	1.08	.72
EL5172ISZ-ND	250MHz Differential Line Receiver*	8-SOIC	1.89	1.08	.72
EL5172IY-ND	250MHz Differential Line Receiver	8-MSOP	1.89	1.08	.72
EL5172IYZ-T7CT-ND	250MHz Differential Line Receiver*	8-MSOP	2.07	1.19	1.00
EL5172IYZ-T7TR-ND	250MHz Differential Line Receiver*	8-MSOP	1215.00/1,500		
EL5173IS-ND	450MHz Differential Twisted Pair Driver	8-SOIC	3.63	2.25	1.66
EL5173ISZ-T7CT-ND	450MHz Differential Twisted Pair Driver*	8-SOIC	3.86	2.40	2.09
EL5173ISZ-T7TR-ND	450MHz Differential Twisted Pair Driver*	8-SOIC	1770.00/1,000		
EL5173IY-ND	450MHz Differential Twisted Pair Driver	8-MSOP	3.63	2.25	1.66
EL5173IYZ-T7CT-ND	450MHz Differential Twisted Pair Driver*	8-MSOP	3.86	2.40	2.09
EL5173IYZ-T7TR-ND	450MHz Differential Twisted Pair Driver*	8-MSOP	2655.00/1,500		
EL5174IS-ND	550MHz Differential Twisted Pair Driver	8-SOIC	3.45	2.13	1.54
EL5174ISZ-T7CT-ND	550MHz Differential Twisted Pair Driver*	8-SOIC	3.57	2.22	1.93
EL5174ISZ-T7TR-ND	550MHz Differential Twisted Pair Driver*	8-SOIC	1640.00/1,000		
EL5175IS-ND	550MHz Differential Line Receiver	8-SOIC	3.45	2.13	1.54
EL5175ISZ-ND	550MHz Differential Line Receiver*	8-SOIC	3.45	2.13	1.53
EL5175IY-ND	550MHz Differential Line Receiver	8-MSOP	3.45	2.13	1.54
EL5175IYZ-T7CT-ND	550MHz Differential Line Receiver*	8-MSOP	3.57	2.22	1.93
EL5175IYZ-T7TR-ND	550MHz Differential Line Receiver*	8-MSOP	2460.00/1,500		
EL5176IY-ND	250MHz Differential Twisted Pair Driver	10-MSOP	1.89	1.08	.72
EL5176IYZ-T7CT-ND	250MHz Differential Twisted Pair Driver*	10-MSOP	2.11	1.21	1.02
EL5176IYZ-T7TR-ND	250MHz Differential Twisted Pair Driver*	10-MSOP	1245.00/1,500		
EL5177IY-ND	550MHz Differential Twisted Pair Driver	10-MSOP	2.66	1.58	1.10
EL5177IYZ-ND	550MHz Differential Twisted Pair Driver*	10-MSOP	2.66	1.58	1.11
EL5178ISZ-T7CT-ND	700MHz Differential Twisted Pair Driver*	8-SOIC	4.68	2.93	2.58
EL5178ISZ-T7TR-ND	700MHz Differential Twisted Pair Driver*	8-SOIC	2229.00/1,000		
EL5370IUZ-ND	100MHz Differential Twisted Pair Driver*	24-QSOP	5.17	3.29	2.51
EL5372IUZ-T7CT-ND	250MHz Differential Line Receiver*	24-QSOP	5.27	3.42	3.01
EL5372IUZ-T7TR-ND	250MHz Differential Line Receiver*	24-QSOP	2599.00/1,000		
EL5373IUZ-ND	450MHz Differential Twisted Pair Driver*	24-QSOP	6.01	4.00	3.08
EL5374IUZ-ND	550MHz Differential Twisted Pair Driver*	28-QSOP	6.01	4.00	3.08
EL5375IUZ-ND	550MHz Differential Line Receiver*	24-QSOP	6.01	4.00	3.08
EL5378IUZ-T7CT-ND	700MHz Differential Twisted Pair Driver*	28-QSOP	6.65	4.61	4.08
EL5378IUZ-T7TR-ND	700MHz Differential Twisted Pair Driver*	28-QSOP	3551.00/1,000		
EL7104CSZ-ND	High Speed, Single Channel, Power MOSFET Driver*	8-SOIC	4.40	2.83	2.09
EL7104CSZ-T7CT-ND	High Speed, Single Channel, Power MOSFET Driver*	8-SOIC	4.68	2.93	2.58
EL7104CSZ-T7TR-ND	High Speed, Single Channel, Power MOSFET Driver*	8-SOIC	2229.00/1,000		
EL7154CSZ-ND	High Speed Mono Pin Driver*	8-SOIC	5.12	3.26	2.48
EL7155CSZ-ND	High Performance Pin Driver*	8-SOIC	5.21	3.38	2.58
EL7156CSZ-ND	High Performance Pin Driver*	8-SOIC	5.21	3.38	2.58
EL7156CSZ-T7CT-ND	High Performance Pin Driver*	8-SOIC	5.20	3.46	3.07
EL7156CSZ-T7TR-ND	High Performance Pin Driver*	8-SOIC	2670.00/1,000		
EL7158ISZ-ND	Ultra-High Current Pin Driver*	8-SOIC	6.63	4.59	3.53
EL7202CSZ-ND	HS, Dual Channel Power MOSFET Driver*	8-SOIC	4.40	2.83	2.09
EL7202CSZ-T7CT-ND	HS, Dual Channel Power MOSFET Driver*	8-SOIC	4.40	2.83	2.46
EL7202CSZ-T7TR-ND	HS, Dual Channel Power MOSFET Driver*	8-SOIC	2090.00/1,000		
EL7212CSZ-ND	HS, Dual Channel Power MOSFET Driver*	8-SOIC	4.40	2.83	2.09
EL7212CSZ-T7CT-ND	HS, Dual Channel Power MOSFET Driver*	8-SOIC	4.40	2.83	2.46
EL7212CSZ-T7TR-ND	HS, Dual Channel Power MOSFET Driver*	8-SOIC	2090.00/1,000		
EL7222CSZ-ND	High Speed, Dual Channel Power MOSFET Driver*	8-SOIC	4.40	2.83	2.09
EL7242CSZ-ND	Dual Input, HS, Dual Ch. Power MOSFET Driver*	8-SOIC	4.95	3.15	2.40
EL7242CSZ-T7CT-ND	Dual Input, HS Dual Channel Power MOSFET Driver*	8-SOIC	4.92	3.14	2.77
EL7242CSZ-T7TR-ND	Dual Input, HS Dual Channel Power MOSFET Driver*	8-SOIC	2390.00/1,000		
EL7457CLZ-ND	40MHz Non-Inverting Quad CMOS Driver*	16-QFN	4.37	2.81	2.08
EL7457CSZ-ND	40MHz Non-Inverting Quad CMOS Driver*	16-SOIC	4.59	2.87	2.19
EL7457CSZ-T7CT-ND	40MHz Non-Inverting Quad CMOS Driver*	16-SOIC	4.82	3.01	2.66
EL7457CSZ-T7TR-ND	40MHz Non-Inverting Quad CMOS Driver*	16-SOIC	2289.00/1,000		
EL7457CUZ-ND	40MHz Non-Inverting Quad CMOS Driver*	16-QSOP	4.37	2.81	2.08
EL7457CUZ-T7CT-ND	40MHz Non-Inverting Quad CMOS Driver*	16-QSOP	4.56	2.86	2.52
EL7457CUZ-T7TR-ND	40MHz Non-Inverting Quad CMOS Driver*	16-QSOP	2170.00/1,000		
EL9110IU-ND	Differential Receiver/Equalizer	16-QSOP	12.94	9.38	6.90
EL9110IUZ-ND	Differential Receiver/Equalizer*	16-QSOP	12.94	9.38	6.90
EL9111ILZ-ND	Triple Differential Receiver/Equalizer*	28-QFN	28.30	21.23	16.98
EL9112ILZ-ND	Triple Differential Receiver/Equalizer*	28-QFN	28.30	21.23	16.98
HIN202CBN-ND	5V, RS-232 Transmitter/Receiver	16-SOIC	1.43	.80	.51
HIN202CBNZ-ND	5V, RS-232 Transmitter/Receiver*	16-SOIC	1.43	.80	.51
HIN202CBZ-ND	5V, RS-232 Transmitter/Receiver*	16-SOIC	1.43	.80	.51
HIN202CP-ND	5V, RS-232 Transmitter/Receiver	16-Dip	1.43	.80	.51
HIN202ECBN-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	16-SOIC	1.43	.80	.51
HIN202ECBNZ-TCT-ND	5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SOIC	1.43	.80	.66
HIN202ECBNZ-TTR-ND	5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SOIC	1275.00/2,500		
HIN202ECBZ-ND	5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SOIC	1.43	.80	.51
HIN202ECP-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	16-Dip	1.73	.96	.64
HIN202EIBN-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	16-SOIC	1.33	.72	.46
HIN202IBN-ND	5V, RS-232 Transmitter/Receiver	16-SOIC	1.90	1.12	.75
HIN206CB-ND	5V, RS-232 Transmitter/Receiver	24-SOIC	3.57	2.21	1.59
HIN208EIA-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	24-SSOP	4.21	2.61	1.93
HIN211ECA-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	28-SSOP	2.28	1.37	.94
HIN211EIA-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	28-SSOP	1.92	1.16	.79
HIN211EIAZ-ND	5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	2.01	1.18	.79
HIN232ACBN-ND	5V RS-232 Transmitter/Receiver, HS	16-SOIC	1.33	.72	.46
HIN232ACBNZ-TCT-ND	5V RS-232 Transmitter/Receiver, HS*	16-SOIC	1.37	.76	.62
HIN232ACBNZ-TTR-ND	5V RS-232 Transmitter/Receiver, HS*	16-SOIC	1200.00/2,500		
HIN232ACP-ND	5V RS-232 Transmitter/Receiver, HS	16-Dip	1.48	.80	.53
HIN232CBZ-ND	5V RS-232 Transmitter/Receiver, HS*	16-SOIC	1.16	.64	.40
HIN232CPZ-ND	5V RS-232 Transmitter/Receiver, HS*	16-PDip	1.33	.72	.46
HIN232ECBNZ-ND	5V RS-232 Transmitter/Receiver, HS, ESD Prot.*	16-SOIC	2.14	1.23	.84
HIN232ECPZ-ND	5V RS-232 Transmitter/Receiver, HS, ESD Prot.*	16-PDip	2.01	1.18	.79
HIP2100EIBZ-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-EPSOIC	4.03	2.51	1.86
HIP2100EIBZTCT-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-EPSOIC	4.03	2.51	2.18
HIP2100EIBZTTR-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-EPSOIC	4625.23/2,500		
HIP2100IB-ND	100V, 2A Peak, High Freq., Half Bridge Driver	8-SOIC	3.86	2.40	1.78
HIP2100IBZ-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	3.86	2.40	1.78
HIP2100IBZTCT-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	3.86	2.40	2.09
HIP2100IBZTTR-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	4425.00/2,500		
HIP2100IR-ND	100V, 2A Peak, High Freq., Half Bridge Driver	16-QFN	4.21	2.61	1.93
HIP2101EIBZ-ND	100V/2A Peak, Low Cost, High Frequency Half Bridge Driver*	8-EPSOIC	4.03	2.51	1.86
HIP2101EIBZTCT-ND	100V/2A Peak, Low Cost, High Frequency Half Bridge Driver*	8-EPSOIC	4.03	2.51	2.18
HIP2101EIBZTTR-ND	100V/2A Peak, Low Cost, High Frequency Half Bridge Driver*	8-EPSOIC	4625.00/2,500		
HIP2101IB-ND	100V, 2A Peak, High Freq., Half Bridge Driver	8-SOIC	3.86	2.40	1.78
HIP2101IBZ-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	3.86	2.40	1.78
HIP2101IBZTCT-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	3.86	2.40	2.09
HIP2101IBZTTR-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	4425.00/2,500		
HIP4080AIBZTCT-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	5.80	3.86	3.42
HIP4080AIBZTTR-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	2970.00/1,000		
HIP4080AIBZ-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	5.72	3.81	2.94
HIP4080AIP-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver	20-Dip	5.77	3.85	2.96
HIP4080AIPZ-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-Dip	5.77	3.85	2.96
HIP4081AIB-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver	20-SOIC	5.72	3.81	2.94
HIP4081AIBZ-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	5.72	3.81	2.94
HIP4081AIBZTCT-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	5.80	3.86	3.42
HIP4081AIBZTTR-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	2970.00/1,000		
HIP4081AIP-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver	20-Dip	6.24	4.16	3.20
HIP4081AIPZ-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-Dip	6.24	4.16	3.20
HIP4082IB-ND	80V, 1.25A Peak Current H-Bridge FET Driver	16-SOIC	4.62	2.89	2.20
HIP4082IBZ-ND	80V, 1.25A Peak Current H-Bridge FET Driver*	16-SOIC	4.62	2.89	2.20
HIP4082IBZTCT-ND	80V, 1.25A Peak Current H-Bridge FET Driver*	16-SOIC	4.70	2.94	2.60
HIP4082IBZTTR-ND	80V, 1.25A Peak Current H-Bridge FET Driver*	16-SOIC	5597.50/2,500		
HIP4082IP-ND	80V, 1.25A Peak Current H-Bridge FET Driver	16-Dip	4.76	2.98	2.27
HIP4082IPZ-ND	80V, 1.25A Peak Current H-Bridge FET Driver*	16-Dip	4.76	2.98	2.27
HIP4083APZ-ND	80V, 300mA Three Phase High Side Driver*	16-Dip	4.34	2.79	2.07
HIP4086AB-ND	80V, 0.5A Three Phase Driver	24-SOIC	7.50	5.10	4.00
HIP4086ABZ-ND	80V, 0.5A Three Phase Driver*	24-SOIC	7.50	5.10	4.00
HIP4086ABZTCT-ND	80V, 0.5A Three Phase Driver*	24-SOIC	7.63	5.19	4.63
HIP4086ABZTTR-ND	80V, 0.5A Three Phase Driver*	24-SOIC	4069.00/1,000		
HIP4086APZ-ND	80V, 0.5A Three Phase Driver*	24-Dip	8.00	5.44	4.27
HIP6601BCB-ND	Sync. Rectified Buck Dual MOSFET Driver	8-SOIC	3.54	2.19	1.42
HIP6601BCBZA-ND	Sync. Rectified Buck Dual MOSFET Driver*	8-SOIC	3.54	2.19	1.42
ICL232CBEZ-ND	5V Powered, Dual RS-232 Transmitter/Receiver*	16-SOIC	3.45	2.13	1.53
ICL3217ECB-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	24-SOIC	6.06	4.04	3.12
ICL3217EIB-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	24-SOIC	6.68	4.62	3.56
ICL3221CAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-SSOP	1.94	1.14	.76
ICL3221CVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-TSSOP	1.94	1.14	.76
ICL3221ECA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-SSOP	1.94	1.14	.76
ICL3221ECAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SSOP	1.94	1.14	.76
ICL3221EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-SSOP	2.34	1.41	.96
ICL3221EIAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SSOP	2.34	1.41	.96
ICL3221EIVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SSOP	2.41	1.45	1.00
ICL3221IAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SSOP	1.94	1.14	.76
ICL3222CAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-SSOP	2.56	1.52	1.08
ICL3222CVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-TSSOP	2.28	1.35	.92
ICL3222CBZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	18-SOIC	2.56	1.52	1.08
ICL3222ECAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-SSOP	3.01	1.85	1.30
ICL3222EIB-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	18-SOIC	3.01	1.85	1.30
ICL3222EIAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-SSOP	3.42	2.11	1.52
ICL3222IAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-SSOP	2.41	1.45	1.22
ICL3222IAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-SSOP	990.00/1,000		
ICL3223ECAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-SSOP	2.04	1.17	.99
ICL3223ECAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-SSOP	800.00/1,000		
ICL3224EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	20-SSOP	4.45	2.87	2.12
ICL3225ECA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	20-SSOP	2.56	1.52	1.08
ICL3225ECAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-SSOP	2.56	1.52	1.30
ICL3225ECAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-SSOP	1070.00/1,000		

*** RoHS Compliant**

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ICL3225EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	20-SSOP	4.48	2.80	2.13
ICL3225EIAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-SSOP	4.48	2.80	2.47
ICL3225EIAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-SSOP	2130.00/1,000		
ICL3226ECA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-SSOP	3.03	1.87	1.36
ICL3227ECA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-SSOP	2.95	1.81	1.28
ICL3227ECAZA-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SSOP	2.95	1.81	1.54
ICL3227ECAZA-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SSOP	1270.00/1,000		
ICL3227EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-SSOP	3.48	2.15	1.55
ICL3227EIAZA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SSOP	3.48	2.15	1.55
ICL3232CBN-ND	3V-5.5V, RS-232 Transmitter/Receiver	16-SOIC	1.75	1.00	.67
ICL3232CBNZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-SOIC	1.75	1.00	.67
ICL3232CP-ND	3V-5.5V, RS-232 Transmitter/Receiver	16-Dip	1.75	1.00	.67
ICL3232CVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-TSSOP	1.43	.80	.51
ICL3232ECBN-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-SOIC	2.64	1.62	1.13
ICL3232ECBZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SOIC	2.64	1.62	1.13
ICL3232ECV-16Z-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-TSSOP	3.42	2.11	1.52
ICL3232IBN-ND	3V-5.5V, RS-232 Transmitter/Receiver	16-SOIC	1.48	.80	.53
ICL3232IBNZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-SOIC	1.48	.80	.53
ICL3232IVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-TSSOP	1.41	.78	.49
ICL3238EIAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	4.20	2.70	2.00
ICL3241CAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	3.15	1.95	1.68
ICL3241CAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	1400.00/1,000		
ICL3241ECAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	3.63	2.25	1.96
ICL3241ECAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	1670.00/1,000		
ICL3241EIVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-TSSOP	4.34	2.79	2.07
ICL3243ECA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	28-SSOP	1.89	1.08	.72
ICL3243ECAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	1.89	1.08	.91
ICL3243ECAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	720.00/1,000		
ICL3243ECVZA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-TSSOP	2.50	1.51	1.04
ICL3243EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	28-SSOP	2.88	1.77	1.24
ICL3243EIAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	2.88	1.77	1.24
ICL3244ECAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	4.12	2.56	2.23
ICL3244ECAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	1890.00/1,000		
ICL3244EIAZ-TCT-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	4.59	2.87	2.54
ICL3244EIAZ-TTR-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	2189.00/1,000		
ICL7667CBAZA-TCT-ND	Dual Power MOSFET Driver*	8-SOIC	2.34	1.41	1.19
ICL7667CBAZA-TTR-ND	Dual Power MOSFET Driver*	8-SOIC	2400.00/2,500		
ICL7667CPAZ-ND	Dual Power MOSFET Driver*	8-Dip	2.44	1.47	1.00
ICM7228AIBIZ-ND	8-Digit, Microprocessor-Compatible, LED Display Decoder Driver*	28-SOIC	8.52	6.04	4.73
ISL24003IRZ-ND	Multi-Channel Buffer Plus Driver*	44-QFN	4.48	2.80	1.92
ISL41334IRZ-TCT-ND	Dual Protocol Transceiver*	40-QFN	9.12	6.27	5.67
ISL41334IRZ-TTR-ND	Dual Protocol Transceiver*	40-QFN	20276.00/4,000		
ISL41387IRZ-TCT-ND	Dual Protocol Transceiver*	40-QFN	7.92	5.61	5.01
ISL41387IRZ-TTR-ND	Dual Protocol Transceiver*	40-QFN	17596.00/4,000		
ISL4221EIR-ND	2.7V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-QFN	3.94	2.45	1.64
ISL4221EIRZ-TCT-ND	2.7V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-QFN	4.09	2.54	2.12
ISL4221EIRZ-TTR-ND	2.7V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-QFN	10152.00/6,000		
ISL4223EIR-ND	2.7V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	20-QFN	5.23	3.48	2.42
ISL4223EIRZ-TCT-ND	2.7V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-QFN	5.36	3.57	3.02
ISL4223EIRZ-TTR-ND	2.7V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-QFN	14832.00/6,000		
ISL4238EIRZ-TCT-ND	RS-232 Transceiver*	32-QFN	6.32	4.21	3.56
ISL4238EIRZ-TTR-ND	RS-232 Transceiver*	32-QFN	17496.00/6,000		
ISL4241EIRZ-TCT-ND	2.7V-5.5V, RS-232 Transceiver, ESD Protected*	32-QFN	6.32	4.21	3.56
ISL4241EIRZ-TTR-ND	2.7V-5.5V, RS-232 Transceiver, ESD Protected*	32-QFN	17496.00/6,000		
ISL4243EIR-ND	2.7V-5.5V, RS-232 Transceiver, ESD Protected	32-QFN	6.19	4.12	2.86
ISL4243EIRZ-TCT-ND	2.7V-5.5V, RS-232 Transceiver, ESD Protected*	32-QFN	6.32	4.21	3.56
ISL4243EIRZ-TTR-ND	2.7V-5.5V, RS-232 Transceiver, ESD Protected*	32-QFN	17496.00/6,000		
ISL4244EIRZ-ND	2.7V-5.5V, RS-232 Transceiver, ESD Protected*	32-QFN	6.55	4.54	3.15
ISL4245EIRZ-TCT-ND	RS-232 Transmitter/Receiver*	32-QFN	5.98	3.98	3.37
ISL4245EIRZ-TTR-ND	RS-232 Transmitter/Receiver*	32-QFN	16560.00/6,000		
ISL4260EIRZ-TCT-ND	RS-232 Transmitter/Receiver*	32-QFN	6.38	4.42	3.74
ISL4260EIRZ-TTR-ND	RS-232 Transmitter/Receiver*	32-QFN	18360.00/6,000		
ISL4270EIRZ-TCT-ND	RS-232 Transmitter/Receiver*	32-QFN	5.98	3.98	3.83
ISL4270EIRZ-TTR-ND	RS-232 Transmitter/Receiver*	32-QFN	16560.00/6,000		
ISL4485EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.56	1.52	1.06
ISL4485EIBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	2.56	1.52	1.08

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ISL4489EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	14-SOIC	2.28	1.37	.95
ISL4489EIBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	14-SOIC	2.28	1.37	.94
ISL4491EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	14-SOIC	2.28	1.37	.95
ISL6207CBZ-ND	High Volt. Sync. Rectified Buck MOSFET Driver*	8-SOIC	2.24	1.33	.91
ISL6605CBZ-ND	Sync. Rectified MOSFET Driver*	8-SOIC	3.03	1.87	1.22
ISL6605CRZ-ND	Sync. Rectified MOSFET Driver*	8-QFN	3.27	2.02	1.31
ISL6605IB-ND	Sync. Rectified MOSFET Driver	8-SOIC	2.67	1.64	1.04
ISL6605IBZ-ND	Sync. Rectified MOSFET Driver*	8-SOIC	2.67	1.64	1.04
ISL6608IB-ND	Sync. Rectified MOSFET Driver	8-SOIC	4.26	2.74	1.83
ISL6612ACBZ-ND	Advanced Sync. Rectified Buck MOSFET Driver*	8-SOIC	3.54	2.20	1.47
ISL6612BCBZ-ND	Advanced Sync. Rectified Buck MOSFET Driver*	8-SOIC	4.12	2.56	1.71
ISL6612CBZ-ND	Advanced Sync. Rectified Buck MOSFET Driver*	8-SOIC	3.54	2.20	1.47
ISL6612CRZ-TCT-ND	Advanced Sync. Rectified Buck MOSFET Driver*	10-DFN	3.68	2.29	1.91
ISL6612CRZ-TTR-ND	Advanced Sync. Rectified Buck MOSFET Driver*	10-DFN	9144.00/6,000		
ISL6612IB-ND	Advanced Sync. Rectified Buck MOSFET Driver	8-SOIC	3.83	2.38	1.59
ISL6614ACB-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver	14-SOIC	6.03	4.02	2.79
ISL6614ACBZ-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver*	14-SOIC	6.03	4.02	2.79
ISL6614CB-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver	14-SOIC	6.03	4.02	2.79
ISL6614CBZ-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver*	14-SOIC	6.03	4.02	2.79
ISL6614CR-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver	16-QFN	6.16	4.10	2.85
ISL6614CRZ-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver*	16-QFN	6.16	4.10	2.85
ISL6614CRZA-TCT-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver*	16-QFN	6.16	4.10	3.48
ISL6614CRZA-TTR-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver*	16-QFN	17064.00/6,000		
ISL6614IB-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver	14-SOIC	6.29	4.19	2.91
ISL6700IB-ND	80V, 1.25A Peak, Medium Frequency, Half Bridge Driver	8-SOIC	2.79	1.71	1.20
ISL6700IBZ-ND	80V Peak, Medium Frequency, Low Cost Half Bridge Driver*	8-SOIC	2.79	1.71	1.20
ISL6700IBZ-TCT-ND	80V Peak, Medium Frequency, Low Cost Half Bridge Driver*	8-SOIC	2.79	1.71	1.46
ISL6700IBZ-TTR-ND	80V Peak, Medium Frequency, Low Cost Half Bridge Driver*	8-SOIC	3000.00/2,500		
ISL6700IR-ND	80V, 1.25A Peak, Medium Freq., Half Bridge Driver	12-QFN	2.82	1.73	1.22
ISL6801AB-ND	High Voltage Bootstrap High Side Driver	8-SOIC	4.70	2.94	2.24
ISL81334IAZ-TCT-ND	ESD Protected, Two Port, Dual Protocol Transceiver*	28-SSOP	9.48	6.52	5.90
ISL81334IAZ-TTR-ND	ESD Protected, Two Port, Dual Protocol Transceiver*	28-SSOP	5269.00/1,000		
ISL81334IBZ-TCT-ND	ESD Protected, Two Port, Dual Protocol Transceiver*	28-SOIC	9.48	6.52	5.90
ISL81334IBZ-TTR-ND	ESD Protected, Two Port, Dual Protocol Transceiver*	28-SOIC	5269.00/1,000		
ISL81387IAZ-TCT-ND	ESD Protected, Dual Port Transceiver*	20-SSOP	8.28	5.87	5.24
ISL81387IAZ-TTR-ND	ESD Protected, Dual Port Transceiver*	20-SSOP	4599.00/1,000		
ISL81387IBZ-TCT-ND	ESD Protected, Dual Port Transceiver*	20-SOIC	8.28	5.87	5.24
ISL81387IBZ-TTR-ND	ESD Protected, Dual Port Transceiver*	20-SOIC	4599.00/1,000		
ISL81485IBZ-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	1.90	1.12	.75
ISL81486IB-ND	5V, Ultra High Speed, PROFIBUS® RS-485/RS-422 Transceiver	8-SOIC	2.28	1.37	.95
ISL81487EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.76	1.70	1.19
ISL81487EIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	2.76	1.70	1.19
ISL81487LIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.28	1.37	.95
ISL81487LIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	2.28	1.37	.95
ISL81487EIBZ-TCT-ND	ESD Protected, Low Power, RS-485/RS-422 Transceiver*	8-SOIC	2.76	1.70	1.45
ISL81487EIBZ-TTR-ND	ESD Protected, Low Power, RS-485/RS-422 Transceiver*	8-SOIC	2975.00/2,500		
ISL81487LIBZ-ND	ESD Protected, Low Power, RS-485/RS-422 Transceiver*	8-SOIC	2.28	1.37	.94
ISL83070EIBZA-TCT-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	3.65	2.27	1.98
ISL83070EIBZA-TTR-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	4200.00/2,500		
ISL83071EIBZA-TCT-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	3.65	2.27	1.98
ISL83071EIBZA-TTR-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	4200.00/2,500		
ISL83072EIBZA-TCT-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	3.65	2.27	1.98
ISL83072EIBZA-TTR-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	4200.00/2,500		
ISL83072EIUZA-TCT-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-MSOP	3.65	2.27	1.98
ISL83072EIUZA-TTR-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-MSOP	4200.00/2,500		
ISL83073EIBZA-TCT-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	3.65	2.27	1.98
ISL83073EIBZA-TTR-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	4200.00/2,500		
ISL83075EIUZA-TCT-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-MSOP	3.65	2.27	1.98
ISL83075EIUZA-TTR-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-MSOP	4198.95/2,500		
ISL83076EIBZA-TCT-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	3.65	2.27	1.98
ISL83076EIBZA-TTR-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	14-SOIC	4200.00/2,500		
ISL83077EIBZA-TCT-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	3.65	2.27	1.98
ISL83077EIBZA-TTR-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	4200.00/2,500		
ISL83078EIBZA-TCT-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	3.65	2.27	1.98

*** *RoHS Compliant***

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

intersil DRIVERS/RECEIVERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ISL83078EIBZA-TTR-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-SOIC	4200.00/2,500		
ISL83078EIUZA-TCT-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-MSOP	3.65	2.27	1.98
ISL83078EIUZA-TTR-ND	ESD Protected, 3.3V, LP RS-485/RS-422 Transceiver*	8-MSOP	4200.00/2,500		
ISL83080EIB-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver	14-SOIC	3.65	2.27	1.68
ISL83080EIBZ-TCT-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	14-SOIC	3.65	2.27	1.98
ISL83080EIBZ-TTR-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	14-SOIC	4200.00/2,500		
ISL83082EIB-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver	8-SOIC	3.65	2.27	1.68
ISL83082EIUZ-TCT-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-MSOP	3.65	2.27	1.98
ISL83082EIUZ-TTR-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-MSOP	4198.95/2,500		
ISL83083EIB-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver	14-SOIC	3.65	2.27	1.68
ISL83085EIB-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver	8-SOIC	3.65	2.27	1.68
ISL83085EIBZ-TCT-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-SOIC	3.65	2.27	1.98
ISL83085EIBZ-TTR-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-SOIC	4200.00/2,500		
ISL83085EIUZ-TCT-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-MSOP	3.65	2.27	1.98
ISL83085EIUZ-TTR-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-MSOP	4200.00/2,500		
ISL83086EIB-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver	14-SOIC	3.65	2.27	1.68
ISL83086EIBZ-TCT-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	14-SOIC	3.65	2.27	1.98
ISL83086EIBZ-TTR-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	14-SOIC	4200.00/2,500		
ISL83086EIUZ-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	10-MSOP	3.65	2.27	1.68
ISL83088EIB-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver	8-SOIC	3.65	2.27	1.68
ISL83088EIBZ-TCT-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-SOIC	3.65	2.27	1.98
ISL83088EIBZ-TTR-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-SOIC	4200.00/2,500		
ISL83088EIUZ-TCT-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-MSOP	3.65	2.27	1.98
ISL83088EIUZ-TTR-ND	ESD Protected, 5V, RS-485/RS-422 Transceiver*	8-MSOP	4200.00/2,500		
ISL83387EIV-ND	ESD Protected, 3V-5.5V, RS-232 Transceiver	24-TSSOP	4.70	2.94	2.24
ISL83483IB-ND	3.3V, Low Power, Slew Rate Limited, RS-485/RS-422 Transceiver	8-SOIC	2.85	1.75	1.23
ISL83483IBZ-TCT-ND	3.3V, Low Power, Slew Rate Limited, RS-485/RS-422 Transceiver*	8-SOIC	2.85	1.75	1.49
ISL83483IBZ-TTR-ND	3.3V, Low Power, Slew Rate Limited, RS-485/RS-422 Transceiver*	8-SOIC	3075.00/2,500		
ISL83485IB-ND	3.3V, Low Power, HS, RS-485/RS-422 Transceiver	8-SOIC	2.69	1.60	1.12
ISL83488IB-ND	3.3V, Low Power, Slew Rate Limited, RS-485/RS-422 Transceiver	8-SOIC	2.69	1.60	1.12
ISL83488IBZ-ND	3.3V, Low Power, Slew Rate Limited, RS-485/RS-422 Transceiver*	8-SOIC	2.69	1.60	1.12
ISL83490IBZ-ND	3.3V, Low Power, RS-485/RS-422 Transceiver*	8-SOIC	2.69	1.60	1.12
ISL83491IB-ND	3.3V, Low Power, HS, RS-485/RS-422 Transceiver	14-SOIC	2.44	1.47	1.00
ISL83491IBZ-ND	3.3V, LP, HS, RS-485/RS-422 Transceiver*	14-SOIC	2.44	1.47	1.00
ISL8483ECPZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-Dip	2.56	1.52	1.08
ISL8483EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.64	1.62	1.13
ISL8483EIBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	2.64	1.62	1.13
ISL8483EIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	2.64	1.62	1.13
ISL8483EIPZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-PDip	2.64	1.62	1.13
ISL8485ECBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	2.44	1.47	1.00
ISL8485ECPZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-Dip	2.56	1.52	1.08
ISL8485EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.56	1.52	1.08
ISL8485EIBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	2.56	1.52	1.08
ISL8485EIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	2.56	1.52	1.08
ISL8485IBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	1.87	1.10	.73
ISL8487EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.95	1.81	1.28
ISL8487EIBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	2.95	1.81	1.28
ISL8487EIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	2.95	1.81	1.28
ISL8488EIBZA-ND	5V, RS-485/RS-422 Transceiver*	8-SOIC	2.64	1.62	1.13
ISL8488IB-ND	5V, RS-485/RS-422 Transceiver	8-SOIC	2.15	1.27	.87
ISL8488IP-ND	5V, RS-485/RS-422 Transceiver	8-Dip	2.15	1.27	.87
ISL8489EIBZ-ND	5V, RS-485/RS-422 Transceiver*	14-SOIC	2.64	1.62	1.13
ISL8489IB-ND	5V, RS-485/RS-422 Transceiver	14-SOIC	2.15	1.27	.87
ISL8489IP-ND	5V, RS-485/RS-422 Transceiver	14-Dip	2.15	1.27	.87
ISL8490IBZ-ND	5V, LP RS-485/RS-422 Transceiver*	8-SOIC	2.15	1.27	.87
ISL8491EIBZ-ND	5V, LP RS-485/RS-422 Transceiver, ESD Prot.*	14-SOIC	2.64	1.62	1.13
ISL8491IBZ-ND	5V, LP RS-485/RS-422 Transceiver*	14-SOIC	3.03	1.87	1.36
ISL43485IBZ-ND	3.3V, Low Power, RS-485/RS-422 Transceiver*	8-SOIC	2.56	1.52	1.08
ISL59830IAZ-ND	Single Supply Video Driver*	16-QSOP	3.89	2.42	1.61
ISL81486IBZ-ND	5V, Ultra High Speed, PROFIBUS®, RS-485/RS-422 Transceiver*	8-SOIC	2.28	1.37	.94
ISL83070EIBZA-ND	3.3V, Full Fail-Safe, Low Power, HS or Slew Rate Limited, RS-485/RS-422 Transceiver, ESD Prot.*	14-SOIC	3.65	2.27	1.68
ISL83072EIBZA-ND	3.3V, Full Fail-Safe, Low Power, HS or Slew Rate Limited, RS-485/RS-422 Transceiver, ESD Prot.*	8-SOIC	3.65	2.27	1.68
ISL83075EIBZA-ND	3.3V, Full Fail-Safe, Low Power, HS or Slew Rate Limited, RS-485/RS-422 Transceiver, ESD Prot.*	8-SOIC	3.65	2.27	1.68
ISL83082EIBZ-ND	5V, Full Fail-Safe, Fractional 1/8 Unit Load, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	3.65	2.27	1.68
ISL83083EIBZ-ND	5V, Full Fail-Safe, Fractional 1/8 Unit Load, RS-485/RS-422 Transceiver, ESD Protected*	14-SOIC	3.65	2.27	1.68
ISL83485IBZ-ND	3.3V, Low Power, HS, RS-485/RS-422 Transceiver*	8-SOIC	2.69	1.60	1.12
ISL83387EIVZ-ND	3V-5.5V, 1Microamp, 250kbps, RS-232 Transceiver, ESD Protected*	24-TSSOP	4.70	2.94	2.24
ISL88694IH5ZCT-ND	SMBus Accelerator*	SOT-23-5	4.15	2.58	2.15
ISL88694IH5ZTR-ND	SMBus Accelerator*	SOT-23-5	1716.00/1,000		

intersil INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CS82C50A-5Z-ND	CMOS Async. Communication Element*	44-PLCC	24.26	18.20	14.56
CS82C55AZ96CT-ND	CMOS Programmable Peripheral Interface*	44-PLCC	6.65	4.61	4.08
CS82C55AZ96TR-ND	CMOS Programmable Peripheral Interface*	44-PLCC	1775.50/500		
CS82C59AZ96CT-ND	CMOS Priority Interrupt Controller*	28-PLCC	6.90	4.78	4.23
CS82C59AZ96TR-ND	CMOS Priority Interrupt Controller*	28-PLCC	2759.25/750		
DG406DJZ-ND	Single 16-Channel, CMOS Analog Mux*	28-Dip	4.76	2.98	2.27
DG406DY-ND	Single 16-Channel, CMOS Analog Mux	28-SOIC	5.72	3.81	2.94
DG407DY-ND	Diff. 8-Channel, CMOS Analog Mux	28-SOIC	6.63	4.59	3.53
DG408DJZ-ND	Single 8-Channel, CMOS Analog Mux*	16-Dip	2.31	1.39	.95
DG408DY-ND	Single 8-Channel, CMOS Analog Mux	16-SOIC	2.18	1.29	.88
DG409DJZ-ND	Diff. 4-Channel, CMOS Analog Mux*	16-Dip	2.31	1.39	.95
DG409DYIS-ND	Diff. 4-Channel, CMOS Analog Mux	16-SOIC	2.21	1.31	.89
DG409DYZ-ND	Diff. 4-Channel, CMOS Analog Mux*	16-SOIC	2.21	1.31	.89
EL7515IYZ-ND	High Freq. PWM Step-Up Regulator*	10-MSOP	4.87	3.05	2.32
EL7516IYZ-ND	600kHz/1.2MHz PWM Step-Up Regulator*	8-MSOP	4.84	3.08	2.35
EL7530IYZ-ND	Mono 600mA Step-Down Regulator*	10-MSOP	3.21	1.98	1.29
EL7531IYZ-ND	Mono 1A Step-Down Regulator*	10-MSOP	4.28	2.76	1.84
EL7532IYZ-ND	Mono 2A Step-Down Regulator*	10-MSOP	5.24	3.40	2.33
EL7534IYZ-ND	Mono 600mA Step-Down Regulator*	10-MSOP	2.76	1.70	1.07
EL7536IYZ-ND	Mono 1A Step-Down Regulator*	10-MSOP	4.00	2.49	1.66
EL7554IREZ-ND	Mono 4A DC/DC Step-Down Regulator*	28-HTSSOP	6.78	4.69	3.26
EL7564CMZ-ND	Mono 4A DC/DC Step-Down Regulator*	20-SOIC	9.19	6.32	5.11
EL7566AIREZ-ND	Mono 6A DC/DC Step-Down Regulator*	28-HTSSOP	12.67	9.18	7.52
EL7566DREZ-ND	Mono 6A DC/DC Step-Down Regulator*	28-HTSSOP	8.26	5.85	4.13
EL7584IRZ-ND	4-Channel DC/DC Converter*	24-TSSOP	4.29	2.67	1.97
EL7630ICZ-T7ACT-ND	White LED Boost Regulator*	SC70-6	3.36	2.08	1.79
EL7630ICZ-T7ATR-ND	White LED Boost Regulator*	SC70-6	372.50/250		
HA9P5002-5Z-ND	110MHz, High Slew Rate, High Out Current Buffer*	8-SOIC	4.23	2.63	1.96
HI3-0507-5-ND	8-Channel Diff. CMOS Analog Mux	28-Dip	13.16	9.54	7.80
HI3-0508-5-ND	Single 8-Channel CMOS Analog Mux	16-Dip	3.54	2.20	1.63
HI3-0508A-5Z-ND	Single 8-Channel CMOS Analog Mux*	16-PDip	4.48	2.80	2.13
HI3-0509-5-ND	4-Channel Differential CMOS Analog Mux	16-Dip	6.29	4.19	3.24
HI3-0516-5Z-ND	16-Ch./Diff. 8-Ch., CMOS High Speed Analog Mux*	28-Dip	37.42	28.79	25.60
HIP6004BCBZA-ND	Buck/Sync. Rectifier (PWM) Controller and Output Volt. Monitor*	20-SOIC	4.23	2.63	1.76
HIP6004ECBZ-ND	Buck/Sync. Rectifier (PWM) Controller and Output Volt. Monitor*	20-SOIC	5.24	3.40	2.42
HIP6006CB-CT-ND	PWM Buck/Sync.-Rectifier Controller	14-SOIC	3.04	2.26	1.67
HIP6006CBZ-ND	PWM Buck/Sync.-Rectifier Controller*	14-SOIC	2.79	1.71	1.20
HIP6006CBZ-TCT-ND	PWM Buck/Sync.-Rectifier Controller*	14-SOIC	3.04	1.87	1.59
HIP6006CBZ-TTR-ND	PWM Buck/Sync.-Rectifier Controller*	14-SOIC	3275.65/2,500		
HIP6012CBZ-ND	PWM Buck/Sync.-Rectifier Controller*	14-SOIC	2.70	1.66	1.16
HIP6012CBZ-TCT-ND	PWM Buck/Sync.-Rectifier Controller*	14-SOIC	2.98	1.83	1.56
HIP6012CBZ-TTR-ND	PWM Buck/Sync.-Rectifier Controller*	14-SOIC	3200.00/2,500		
HIP6013CB-ND	PWM Buck Controller	14-SOIC	2.67	1.64	1.15
HIP6301CB-CT-ND	Microprocessor CORE Voltage Regulator, Multi-Phase Buck PWM Controller	20-SOIC	5.12	3.26	2.75
HIP6301CB-TR-ND	Microprocessor CORE Voltage Regulator, Multi-Phase Buck PWM Controller	20-SOIC	2232.00/1,000		
HIP6302CB-CT-ND	Microprocessor CORE Voltage Regulator, Multi-Phase Buck PWM Controller	16-SOIC	4.20	3.20	2.44
HIP6311ACBZA-ND	Microprocessor CORE Volt. Reg. Multi-Phase Buck PWM Controller*	20-SOIC	6.24	4.16	2.88
HIP6521CBZ-ND	PWM and Triple Linear Power Controller*	16-SOIC	6.01	4.00	3.08
HIP6521CBZA-TCT-ND	PWM and Triple Linear Power Controller*	16-SOIC	6.01	4.00	3.59
HIP6521CBZA-TTR-ND	PWM and Triple Linear Power Controller*	16-SOIC	7700.00/2,500		
IS82C52Z-ND	CMOS Serial Controller Interface*	28-PLCC	57.64	45.63	38.43
IS82C55AZ-ND	CMOS Programmable Peripheral Interface*	44-PLCC	12.71	9.21	7.54
IS82C55AZ96CT-ND	CMOS Programmable Peripheral Interface*	44-PLCC	12.87	9.33	8.48
IS82C55AZ96TR-ND	CMOS Programmable Peripheral Interface*	44-PLCC	3815.00/500		
ISL43681IR-ND	Low-Voltage, Single Supply, 8-to-1 Mux	20-QFN	2.95	1.81	1.28
ISL6119HIBZA-ND	USB Dual Port Power Supply Controller*	8-SOIC	2.82	1.73	1.10
ISL6124IRZA-ND	Power Sequencing Controller*	24-QFN	5.90	3.93	2.73
ISL6125IRZA-ND	Power Sequencing Controller*	24-QFN	5.90	3.93	2.73
ISL6127IRZA-ND	Power Sequencing Controller*	24-QFN	5.90	3.93	2.73
ISL6142CBZA-ND	Negative Voltage Hot Plug Controller*	14-SOIC	8.21	5.82	4.11
ISL6144IRZA-ND	High Voltage O-Ring MOSFET Controller*	20-QFN	6.88	4.76	3.30
ISL6144IVZA-ND	High Voltage O-Ring MOSFET Controller*	16-TSSOP	6.88	4.76	3.30
ISL6152CBZA-ND	Negative Voltage Hot Plug Controller*	14-SOIC	8.21	5.82	4.11
ISL6224CA-ND	Single Output Mobile-Friendly PWM Controller	16-SSOP	4.65	2.91	2.21
ISL6224CAZ-ND	Single Output Mobile-Friendly PWM Controller*	16-SSOP	4.65	2.91	2.21
ISL6227CAZ-ND	Dual Mobile-Friendly PWM Controller with DDR Option*	28-SSOP	4.95	3.15	2.40
ISL6271ACRZ-ND	Integrated XScale Regulator*	20-QFN	4.95	3.15	2.16
ISL6401CB-ND	Adj. Freq., Low Power, PWM Current Mode Controller	14-SOIC	6.01	4.00	3.08
ISL6401CBZ-ND	Adj. Freq., Low Power, PWM Current Mode Controller*	14-SOIC	6.01	4.00	3.08
ISL6402IR-ND	300kHz Dual Step-Down PWM/Single Linear Controller	28-QFN	5.70	4.34	3.31
ISL6402IVZ-TCT-ND	300kHz Dual Step-Down PWM/Single Linear Controller*	28-TSSOP	6.01	4.00	3.39
ISL6402IVZ-TTR-ND	300kHz Dual Step-Down PWM/Single Linear Controller*	28-TSSOP	6930.00/2,500		
ISL6406IBZ-TCT-ND	Single Sync. Buck PWM Controller*	16-SOIC	3.27	2.02	1.67
ISL6406IBZ-TTR-ND	Single Sync. Buck PWM Controller*	16-SOIC	3270.00/2,500		
ISL6410AIU-ND	5V Single Sync. Buck Reg. with Integrated FET	10-MSOP	2.65	2.02	1.54
ISL6410IR-ND	3.3V Single Sync. Buck Reg. with Integrated FET	16-QFN	2.98	2.21	1.64
ISL6410IU-ND	3.3V Single Sync. Buck Reg. with Integrated FET	10-MSOP	2.65	2.02	1.54
ISL6420AIAZ-TKCT-ND	Advanced Single Sync. Buck PWM Controller*	20-QSOP	3.89	2.42	2.01
ISL6420AIAZ-TKTR-ND	Advanced Single Sync. Buck PWM Controller*	20-QSOP	1608.00/1,000		
ISL6420AIRZ-TKCT-ND	Advanced Single Sync. Buck PWM Controller*	20-QFN	3.89	2.42	2.19
ISL6420AIRZ-TKTR-ND	Advanced Single Sync. Buck PWM Controller*	20-QFN	1608.00/1,000		
ISL6420IRZ-ND	Advanced Single Sync. Buck PWM Controller*	20-QFN	3.83	2.38	1.59
ISL6421AERZ-ND	Single Output LNB Supply and Control Voltage Reg. with I²C Interface*	32-QFN	4.26	2.74	1.83
ISL6431CB-ND	High Eff., Fixed Freq., Sync. Buck PWM Controller	8-SOIC	2.88	1.77	1.12
ISL6439CB-ND	Single Sync. Buck PWM Controller	14-SOIC	3.33	2.06	1.34
ISL6440IAZ-TCT-ND	300kHz Dual, Step-Down PWM Controller*	24-QSOP	6.11	4.07	3.45
ISL6440IAZ-TTR-ND	300kHz Dual, Step-Down PWM Controller*	24-QSOP	7050.00/2,500		
ISL6441IRZ-ND	1.4MHz Dual, 180° Out-of-Phase, Step-Down PWM/Single Linear Controller*	28-QFN	6.83	4.73	3.68
ISL6441IRZ-TKCT-ND	1.4MHz Dual, 180° Out-of-Phase, Step-Down PWM/Single Linear Controller*	28-QFN	6.93	4.80	4.30
ISL6441IRZ-TKTR-ND	1.4MHz Dual, 180° Out-of-Phase, Step-Down PWM/Single Linear Controller*	28-QFN	3690.00/1,000		
ISL6442IAZ-ND	Dual PWM and Linear Controller*	24-QSOP	6.37	4.24	3.28
ISL6442IAZ-TKCT-ND	Dual PWM and Linear Controller*	24-QSOP	6.42	4.28	3.79
ISL6442IAZ-TKTR-ND	Dual PWM and Linear Controller*	24-QSOP	3290.00/1,000		
ISL6443IRZ-ND	300kHz Dual, 180° Out-of-Phase, Step-Down PWM/Single Linear Controller*	28-QFN	6.45	4.30	2.98
ISL6445IAZ-TKCT-ND	1.4MHz Dual, Step-Down PWM Controller*	24-QSOP	6.11	4.07	3.45
ISL6445IAZ-TKTR-ND	1.4MHz Dual, Step-Down PWM Controller*	24-QSOP	2820.00/1,000		
ISL6506BCBZ-ND	Multiple Linear Power Controller with ACPI Control Interface*	8-EPSOIC	2.67	1.64	1.04
ISL6520ACB-CT-ND	Single Synchronous Buck PWM Controller	8-SOIC	2.44	1.47	1.24
ISL6520ACB-TR-ND	Single Synchronous Buck PWM Controller	8-SOIC	2500.00/2,500		
ISL6520ACBZ-ND	Single Synchronous Buck PWM Controller*	8-SOIC	2.44	1.47	1.00
ISL6520ACBZ-TCT-ND	Single Synchronous Buck PWM Controller*	8-SOIC	2.44	1.47	1.24
ISL6520ACBZ-TTR-ND	Single Synchronous Buck PWM Controller*	8-SOIC	2500.00/2,500		
ISL6520BCBZ-ND	Single Synchronous Buck PWM Controller*	8-SOIC	3.45	2.13	1.38
ISL6520CB-CT-ND	Single Synchronous Buck PWM Controller	8-SOIC	2.54	1.89	1.40

*** RoHS Compliant**

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INTERFACE *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL6521CB-ND	PWM Buck DC/DC and Triple Linear Power Controller	16-SOIC	7.05	4.80	3.39
ISL6521CBZ-ND	PWM Buck DC/DC and Triple Linear Power Controller*	16-SOIC	7.05	4.80	3.39
ISL6522BCBZ-ND	Buck/Sync. Rectifier PWM Controller*	14-SOIC	3.97	2.47	1.84
ISL6525CBZ-TCT-ND	Buck/Sync. Rectifier PWM Controller*	14-SOIC	3.57	2.21	1.90
ISL6525CBZ-TTR-ND	Buck/Sync. Rectifier PWM Controller*	14-SOIC	3974.60/2,500		
ISL6526CB-CT-ND	Single Synchronous PWM Controller	14-SOIC	2.83	2.15	1.64
ISL6527ACBZA-TCT-ND	Single Sync. Buck PWM Controller*	14-SOIC	3.51	2.18	1.90
ISL6527ACBZA-TTR-ND	Single Sync. Buck PWM Controller*	14-SOIC	4026.28/2,500		
ISL6528CBZ-TCT-ND	Dual Reg. Standard Buck PWM/ Linear Power Controller*	8-SOIC	5.20	3.46	3.10
ISL6528CBZ-TTR-ND	Dual Reg. Standard Buck PWM/ Linear Power Controller*	8-SOIC	6675.00/2,500		
ISL6529CBZ-ND	Dual Reg. Sync. Rectified Buck PWM/ Linear Power Controller*	14-SOIC	5.20	3.46	2.67
ISL6529CBZ-TCT-ND	Dual Reg. Sync. Rectified Buck PWM/ Linear Power Controller*	14-SOIC	5.20	3.46	3.07
ISL6529CBZ-TTR-ND	Dual Reg. Sync. Rectified Buck PWM/ Linear Power Controller*	14-SOIC	6675.00/2,500		
ISL6530CB-CT-ND	Dual 5V Sync. Buck PWM Controller	24-SOIC	4.37	2.81	2.45
ISL6530CB-TR-ND	Dual 5V Sync. Buck PWM Controller	24-SOIC	2079.00/1,000		
ISL6530CBZ-TCT-ND	Dual 5V Sync. Buck PWM Controller*	24-SOIC	4.37	2.81	2.45
ISL6530CBZ-TTR-ND	Dual 5V Sync. Buck PWM Controller*	24-SOIC	2079.00/1,000		
ISL6530CRZ-TCT-ND	Dual 5V Sync. Buck PWM Controller*	32-QFN	4.70	2.94	2.60
ISL6530CRZ-TTR-ND	Dual 5V Sync. Buck PWM Controller*	32-QFN	13436.64/6,000		
ISL6531CB-ND	Dual 5V Sync. Buck PWM Controller	24-SOIC	4.90	3.12	2.37
ISL6531CBZ-TCT-ND	Dual 5V Sync. Buck PWM Controller*	24-SOIC	4.90	3.12	2.75
ISL6531CBZ-TTR-ND	Dual 5V Sync. Buck PWM Controller*	24-SOIC	2369.18/1,000		
ISL6532CRZ-ND	ACPI Regulator/Controller for Dual Channel DDR Memory Systems*	20-QFN	5.46	3.64	2.80
ISL6534CRZR5229-ND	Dual PWM with Linear Controller*	32-QFN	3.54	2.20	1.47
ISL6534CRZ-TCT-ND	Dual PWM with Linear Controller*	32-QFN	2.82	1.73	1.47
ISL6534CRZ-TTR-ND	Dual PWM with Linear Controller*	32-QFN	7260.00/6,000		
ISL6534CVZR5299-ND	Dual PWM with Linear Controller*	24-TSSOP	4.56	3.61	2.89
ISL6534CVZ-TCT-ND	Dual PWM with Linear Controller*	24-EPTSSOP	5.64	3.76	3.33
ISL6534CVZ-TTR-ND	Dual PWM with Linear Controller*	24-EPTSSOP	7225.00/2,500		
ISL6535CBZ-TCT-ND	Synchronous Buck PWM Controller*	14-SOIC	3.24	2.00	1.72
ISL6535CBZ-TTR-ND	Synchronous Buck PWM Controller*	14-SOIC	3600.00/2,500		
ISL6535IBZ-TCT-ND	Synchronous Buck PWM Controller*	14-SOIC	3.60	2.24	1.95
ISL6535IBZ-TTR-ND	Synchronous Buck PWM Controller*	14-SOIC	4150.00/2,500		
ISL6536AIBZ-ND	4-Channel Supervisory IC*	8-SOIC	1.41	.78	.49
ISL6536AIBZ-TCT-ND	4-Channel Supervisory IC*	8-SOIC	1.41	.78	.64
ISL6536IBZ-TCT-ND	4-Channel Supervisory IC*	8-SOIC	2.14	1.23	1.04
ISL6536IBZ-TTR-ND	4-Channel Supervisory IC*	8-SOIC	2100.00/2,500		
ISL6539CAZ-ND	Wide Input, Dual PWM Controller*	28-QSOP	5.27	3.42	2.34
ISL6539IA-ND	Wide Input, Dual PWM Controller	28-QSOP	6.43	4.45	3.09
ISL6539IAZ-ND	Wide Input, Dual PWM Controller*	28-QSOP	6.43	4.45	3.09
ISL6549CAZA-TCT-ND	Single 12V Input Supply Dual Reg. Sync. Rectified Buck PWM*	16-QSOP	4.90	3.12	2.63
ISL6549CAZA-TTR-ND	Single 12V Input Supply Dual Reg. Sync. Rectified Buck PWM*	16-QSOP	5340.00/2,500		
ISL6551IB-ND	ZVS Full Bridge PWM Controller	28-SOIC	8.11	5.75	4.51
ISL6551IBZ-ND	ZVS Full Bridge PWM Controller*	28-SOIC	8.11	5.75	4.51
ISL6558CB-ND	Multi-Purpose Precision Multi-Phase PWM Controller	16-SOIC	4.32	2.69	2.00
ISL6558CBZA-ND	Multi-Purpose Precision Multi-Phase PWM Controller*	16-SOIC	4.32	2.69	2.00
ISL6558CRZ-ND	Multi-Purpose Precision Multi-Phase PWM Controller*	20-QFN	4.32	2.69	2.00
ISL6558IRZ-ND	Multi-Purpose Prec. Multi-Phase PWM Controller*	20-QFN	4.40	2.83	2.09
ISL6563IR-ND	2-Phase Buck PWM Controller	24-QFN	6.19	4.12	2.86
ISL6721ABZ-ND	Flexible Single Ended Current Mode PWM Controller*	16-SOIC	6.21	4.14	3.20
ISL6721AVZ-ND	Flexible Single Ended Current Mode PWM Controller*	16-TSSOP	6.21	4.14	3.20
ISL6722AABZ-ND	Flexible Single Ended Current Mode PWM Controller*	16-SOIC	7.17	4.19	3.83
ISL6722AAVZ-ND	Flexible Single Ended Current Mode PWM Controller*	16-TSSOP	6.14	4.09	3.20
ISL6723AABZ-ND	Flexible Single Ended Current Mode PWM Controller*	16-SOIC	9.53	6.56	5.29
ISL6729IBZ-ND	Low Cost Single Ended Current Mode PWM*	8-SOIC	2.34	1.41	.96
ISL6740IVZ-ND	Flexible Double Ended Voltage and Current Mode PWM Controller*	16-TSSOP	5.80	3.86	2.98
ISL6741IVZ-ND	Flexible Double Ended Voltage and Current Mode PWM Controller*	16-TSSOP	5.80	3.86	2.98
ISL6742AAZA-ND	Advanced Double Ended PWM Controller*	16-QSOP	7.78	5.29	4.15
ISL6742AAZA-TCT-ND	Advanced Double Ended PWM Controller*	16-QSOP	7.78	5.29	4.72
ISL6742AAZA-TTR-ND	Advanced Double Ended PWM Controller*	16-QSOP	10371.85/2,500		
ISL6744AB-ND	Intermediate Bus PWM Controller	8-SOIC	3.48	2.16	1.60
ISL6744ABZ-ND	Intermediate Bus PWM Controller*	8-SOIC	3.48	2.16	1.60
ISL6744AUZ-ND	Intermediate Bus PWM Controller*	8-MSOP	3.77	2.34	1.74
ISL6744AUZ-TCT-ND	Intermediate Bus PWM Controller*	8-MSOP	3.77	2.34	2.04
ISL6744AUZ-TTR-ND	Intermediate Bus PWM Controller*	8-MSOP	4325.75/2,500		
ISL6752AAZA-ND	ZVS Full-Bridge Current Mode PWM Controller*	16-QSOP	6.21	4.14	3.20
ISL6753AAZA-ND	ZVS Full-Bridge PWM Controller*	16-QSOP	6.21	4.14	3.20
ISL6745AUZ-ND	Bridge Controller*	10-MSOP	4.06	2.52	1.88
ISL6745AUZ-TCT-ND	Bridge Controller*	10-MSOP	4.06	2.52	2.20
ISL6745AUZ-TTR-ND	Bridge Controller*	10-MSOP	4676.00/2,500		
ISL6840IB-ND	Adj. Freq., Low Power, PWM Current Mode Controller	8-SOIC	2.91	1.79	1.26
ISL6841IB-ND	Adj. Freq., Low Power, PWM Current Mode Controller	8-SOIC	2.91	1.79	1.26
ISL6843IB-ND	Adj. Freq., Low Power, PWM Current Mode Controller	8-SOIC	2.64	1.62	1.13
ISL6843IUZ-ND	Adj. Freq., Low Power, PWM Current Mode Controller*	8-MSOP	2.95	1.81	1.28
ISL6843IUZ-TCT-ND	Adj. Freq., Low Power, PWM Current Mode Controller*	8-MSOP	2.95	1.81	1.54
ISL6843IUZ-TTR-ND	Adj. Freq., Low Power, PWM Current Mode Controller*	8-MSOP	3175.38/2,500		
ISL6844IB-ND	Adj. Freq., Low Power, PWM Current Mode Controller	8-SOIC	2.64	1.62	1.13
ISL6844IBZ-ND	Adj. Freq., Low Power, PWM Current Mode Controller*	8-SOIC	2.64	1.62	1.13
ISL8102CRZ-TCT-ND	Two-Phase Buck PWM Controller*	32-QFN	4.81	3.07	2.59
ISL8102CRZ-TTR-ND	Two-Phase Buck PWM Controller*	32-QFN	12600.00/6,000		
ISL8103IRZ-TCT-ND	Three-Phase Buck PWM Controller*	40-QFN	5.88	3.91	3.47
ISL8103IRZ-TTR-ND	Three-Phase Buck PWM Controller*	40-QFN	12040.00/4,000		
ISL8104IBZ-ND	Synchronous Buck PWM Controller*	14-SOIC	3.71	2.31	1.54
ISL8843ABZ-ND	Single-Ended PWM Controller*	8-SOIC	2.64	1.62	1.13
ISL8843AUZ-ND	Single-Ended PWM Controller*	8-MSOP	2.95	1.81	1.28
ISL8843MBZ-ND	Single-Ended PWM Controller*	8-SOIC	4.45	2.87	2.12
ISL65426HRZ-ND	6A Dual Synchronous Buck Regulator*	50-QFN	9.50	6.54	4.76
X9530V14IZT1CT-ND	Temperature Compensated Laser Diode Controller*	14-TSSOP	6.25	4.33	3.83
X9530V14IZT1TR-ND	Temperature Compensated Laser Diode Controller*	14-TSSOP	8325.00/2,500		

PARALLEL EEPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
X28HC64D-90-ND	64K (8Kx8) CMOS EEPROM 90nS	28-CDip	26.88	14.68	13.89
X28HC64JI-90-ND	64K (8Kx8) CMOS EEPROM 90nS	32-PLCC	9.60	6.52	4.80
X28HC64D-12-ND	64K (8Kx8) CMOS EEPROM 120nS	28-CDip	23.50	17.98	14.10
X28HC64DI-12-ND	64K (8Kx8) CMOS EEPROM 120nS	28-CDip	24.50	18.38	14.70
X28HC64J-12-ND	64K (8Kx8) CMOS EEPROM 120nS	32-PLCC	8.35	5.92	4.18
X28HC256P-12-ND	256K (32Kx8) CMOS EEPROM 120nS	28-Dip	13.20	9.60	7.20
X28HC256P-15-ND	256K (32Kx8) CMOS EEPROM 150nS	28-Dip	11.25	8.15	6.00
X28HC256PI-15-ND	256K (32Kx8) CMOS EEPROM 150nS	28-Dip	12.38	8.97	6.60

POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
HIP1011ACBZA-ND	PCI Hot Plug Controller*	16-SOIC	6.45	4.30	2.98
HIP1011BCBZA-ND	PCI Hot Plug Controller*	16-SOIC	6.14	4.09	2.84
ICL7660AIBAZA-ND	1.5V-12V CMOS Voltage Converter*	8-SOIC	2.15	1.27	.87
ICL7665SACBAZ-TCT-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	3.45	2.13	1.83
ICL7665SACBAZ-TTR-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	3825.00/2,500		
ICL7665SACPA-ND	CMOS MPU Over/Under Voltage Detector	8-Dip	3.12	1.93	1.40
ICL7665SACPAZ-ND	CMOS MPU Over/Under Voltage Detector*	8-Dip	3.12	1.93	1.40
ICL7665SAIBAZA-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	3.45	2.13	1.53
ICL7665SAIBAZA-TCT-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	3.54	2.19	1.88
ICL7665SAIBAZA-TTR-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	3927.50/2,500		
ICL7665SAIPAZ-ND	CMOS MPU Over/Under Voltage Detector*	8-Dip	3.77	2.34	1.74
ICL7665SCBAZA-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	2.44	1.47	1.00
ICL7665SCBAZA-TCT-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	2.64	1.62	1.38
ICL7665SCBAZA-TTR-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	2825.00/2,500		
ICL7665SCPA-ND	CMOS MPU Over/Under Voltage Detector	8-Dip	2.79	1.71	1.20
ICL7665SCPAZ-ND	CMOS MPU Over/Under Voltage Detector*	8-Dip	2.79	1.71	1.20
ICL7665SIBAZA-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	3.30	2.04	1.47
ICL7665SIBAZA-TCT-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	3.45	2.13	1.83
ICL7665SIBAZA-TTR-ND	CMOS MPU Over/Under Voltage Detector*	8-SOIC	3823.75/2,500		
ISL24010IVZ-TCT-ND	Octal Voltage Level Shifter*	20-TSSOP	6.88	4.76	4.22
ISL24010IVZ-TTR-ND	Octal Voltage Level Shifter*	20-TSSOP	9177.50/2,500		
ISL6115CB-ND	Hot Swap Power Controller	8-SOIC	4.42	2.85	1.90
ISL6116CB-ND	Hot Swap Power Controller	8-SOIC	4.56	2.86	1.96
ISL6123IR-ND	4-Channel Power Sequencing Controller	24-QFN	5.90	3.93	2.73
ISL6123IRZA-ND	4-Channel Power Sequencing Controller*	24-QFN	5.90	3.93	2.73
ISL6125IR-ND	4-Channel Power Sequencing Controller	24-QFN	5.90	3.93	2.73
ISL6127IR-ND	4-Channel Power Sequencing Controller	24-QFN	5.90	3.93	2.73
ISL6131IR-ND	4-Supply Multiple Voltage Supervisor	24-QFN	5.67	3.78	2.62
ISL6131IRZA-ND	4-Supply Multiple Voltage Supervisor*	24-QFN	5.67	3.78	2.62
ISL6132IR-ND	2V Supervisor Monitoring UV/OV Conditions	24-QFN	5.67	3.78	2.62
ISL6132IRZA-ND	2V Supervisor Monitoring UV/OV Conditions*	24-QFN	5.67	3.78	2.62
ISL6140CB-ND	Negative Voltage Hot Plug Controller	8-SOIC	4.48	2.80	1.92
ISL6140CBZ-ND	Negative Voltage Hot Plug Controller*	8-SOIC	4.48	2.80	1.92
ISL6141CB-ND	Negative Voltage Hot Plug Controller	8-SOIC	5.20	3.46	2.40
ISL6141CBZA-ND	Negative Voltage Hot Plug Controller*	8-SOIC	5.20	3.46	2.40
ISL6151CBZA-ND	Negative Voltage Hot Plug Controller*	8-SOIC	5.20	3.46	2.40
ISL6173DRZA-ND	Dual Low Voltage Hot Swap Controller*	28-QFN	8.11	5.75	4.06
ISL6251HRZ-ND	Multi-Chemistry Battery Charger Controller*	28-QFN	7.13	4.85	3.42
ISL6253HAZ-ND	Highly Integrated Battery Charger for Notebook Computers*	28-QSOP	5.59	3.72	2.58
ISL6253HRZ-ND	Highly Integrated Battery Charger for Notebook Computers*	28-QFN	5.82	3.88	2.69
ISL6255HRZ-ND	Highly Integrated Battery Charger with Auto Power Source Selector for Notebook Computers*	28-QFN	6.20	4.90	3.93
ISL6291-1CRZ-ND	Li-Ion/Li-Pol Linear Battery Charger*	16-QFN	2.44	1.47	1.00
ISL6291-2CR-ND	Li-Ion/Li-Pol Linear Battery Charger	16-QFN	2.44	1.47	1.00
ISL6291-2CRZ-ND	Li-Ion/Li-Pol Linear Battery Charger*	16-QFN	2.44	1.47	1.00
ISL6292-2CR3Z-ND	2.4V, Li-Ion/Li-Pol Battery Charger*	10-DFN	2.28	1.37	.94
ISL6292-2CR3Z-TCT-ND	2.4V, Li-Ion/Li-Pol Battery Charger*	10-DFN	2.28	1.37	1.15
ISL6292-2CR3Z-TTR-ND	2.4V, Li-Ion/Li-Pol Battery Charger*	10-DFN	5580.00/6,000		
ISL6292-2CR4Z-ND	2.4V, Li-Ion/Li-Pol Battery Charger*	16-QFN	2.28	1.37	.94
ISL6292-2CR4Z-TCT-ND	2.4V, Li-Ion/Li-Pol Battery Charger*	16-QFN	2.28	1.37	1.15
ISL6292-2CR4Z-TTR-ND	2.4V, Li-Ion/Li-Pol Battery Charger*	16-QFN	5580.00/6,000		
ISL6292-2CR5Z-ND	2.4V, Li-Ion/Li-Pol Battery Charger*	16-QFN	2.28	1.37	.94
ISL6292-2CR5Z-TCT-ND	2.4V, Li-Ion/Li-Pol Battery Charger*	16-QFN	2.28	1.37	1.15
ISL6292-2CR5Z-TTR-ND	2.4V, Li-Ion/Li-Pol Battery Charger*	16-QFN	5580.00/6,000		
ISL6292BCRZ-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	2.28	1.37	.94
ISL6292BCRZ-TCT-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	2.28	1.37	1.15
ISL6292BCRZ-TTR-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	5580.00/6,000		
ISL6292CCR3Z-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	2.28	1.37	.95
ISL6292CCR3Z-TCT-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	2.28	1.37	1.16
ISL6292CCR3Z-TTR-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	5640.60/6,000		
ISL6292DCRZ-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	2.85	1.75	1.23
ISL6292DCRZ-TCT-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	2.85	1.75	1.49
ISL6292DCRZ-TTR-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	7380.24/6,000		

***** ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

intersil POWER MANAGEMENT *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL6293-2CRZ-ND	Li-Ion/Li-Pol Battery Charger Accepting Two Power Sources*	10-DFN	3.00	1.85	1.33
ISL6293-2CRZ-TCT-ND	Li-Ion/Li-Pol Battery Charger Accepting Two Power Sources*	10-DFN	3.00	1.85	1.59
ISL6293-2CRZ-TTR-ND	Li-Ion/Li-Pol Battery Charger Accepting Two Power Sources*	10-DFN	7980.00/6,000		
ISL6294IRZ-CT-ND	High Input Voltage Charger*	8-DFN	2.79	1.71	1.46
ISL6294IRZ-TR-ND	High Input Voltage Charger*	8-DFN	7200.00/6,000		
ISL6295CVZ-ND	Low Voltage Fuel Gauge*	8-TSSOP	5.20	3.46	2.67
ISL6295CVZ-TCT-ND	Low Voltage Fuel Gauge*	8-TSSOP	5.20	3.46	3.07
ISL6295CVZ-TTR-ND	Low Voltage Fuel Gauge*	8-TSSOP	6675.00/2,500		
ISL6296DHZ-TCT-ND	Authentication Device*	SOT23-5	3.15	1.95	1.68
ISL6296DHZ-TTR-ND	Authentication Device*	SOT23-5	4200.00/3,000		
ISL6297CRZ-TCT-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	2.28	1.37	1.15
ISL6297CRZ-TTR-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	5580.00/6,000		
ISL6298-2CR3Z-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	2.79	1.71	1.20
ISL6298-2CR3Z-TCT-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	2.79	1.71	1.46
ISL6298-2CR3Z-TTR-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	7200.00/6,000		
ISL6298-2CR4Z-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	2.79	1.71	1.20
ISL6298-2CR4Z-TCT-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	2.79	1.71	1.46
ISL6298-2CR4Z-TTR-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	7198.20/6,000		
ISL6299AIRZ-ND	Li-Ion/Li-Pol Battery Charger Accepting Two Power Sources*	10-DFN	3.00	1.85	1.33
ISL6299AIRZ-TCT-ND	Li-Ion/Li-Pol Battery Charger Accepting Two Power Sources*	10-DFN	3.00	1.85	1.59
ISL6299AIRZ-TTR-ND	Li-Ion/Li-Pol Battery Charger Accepting Two Power Sources*	10-DFN	7980.00/6,000		
ISL6299IRZ-ND	Li-Ion/Li-Pol Battery Charger Accepting Two Power Sources*	10-DFN	2.50	1.90	1.45
ISL8700AIBZ-ND	Adjustable Quad Sequencer*	14-SOIC	3.15	1.95	1.26
ISL8701AIBZ-ND	Adjustable Quad Sequencer*	14-SOIC	3.15	1.95	1.26
ISL8702AIBZ-ND	Adjustable Quad Sequencer*	14-SOIC	3.15	1.95	1.26
ISL8703AIBZ-ND	Adjustable Quad Sequencer*	14-SOIC	3.15	1.95	1.26
ISL8704AIBZ-ND	Adjustable Quad Sequencer*	14-SOIC	3.15	1.95	1.26
ISL8705AIBZ-ND	Adjustable Quad Sequencer*	14-SOIC	3.15	1.95	1.26
ISL88011IH522Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.18	1.29	1.09
ISL88011IH523Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.18	1.29	1.09
ISL88011IH523Z-TKTR-ND	Dual Voltage Monitor*	SOT-23-5	880.00/1,000		
ISL88011IH529Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.18	1.29	1.09
ISL88011IH531Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.18	1.29	1.09
ISL88011IH531Z-TKTR-ND	Dual Voltage Monitor*	SOT-23-5	880.00/1,000		
ISL88011IH546Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.18	1.29	1.09
ISL88011IH546Z-TKTR-ND	Dual Voltage Monitor*	SOT-23-5	880.00/1,000		
ISL88012IH529Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.41	1.45	1.22
ISL88012IH531Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.41	1.45	1.22
ISL88012IH531Z-TKTR-ND	Dual Voltage Monitor*	SOT-23-5	990.00/1,000		
ISL88012IH546Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.41	1.45	1.22
ISL88012IH546Z-TKTR-ND	Dual Voltage Monitor*	SOT-23-5	990.00/1,000		
ISL88013IH522Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.31	1.39	1.17
ISL88013IH522Z-TKTR-ND	Dual Voltage Monitor*	SOT-23-5	950.00/1,000		
ISL88013IH523Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.31	1.39	1.17
ISL88013IH523Z-TKTR-ND	Dual Voltage Monitor*	SOT-23-5	950.00/1,000		
ISL88013IH529Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.31	1.39	1.17
ISL88013IH529Z-TKTR-ND	Dual Voltage Monitor*	SOT-23-5	950.00/1,000		
ISL88013IH531Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.31	1.39	1.17
ISL88013IH531Z-TKTR-ND	Dual Voltage Monitor*	SOT-23-5	950.00/1,000		
ISL88013IH546Z-TKCT-ND	Dual Voltage Monitor*	SOT-23-5	2.31	1.39	1.17
ISL88014IH5Z-TKCT-ND	Dual Adjustable Voltage Monitor*	SOT-23-5	2.18	1.29	1.09
ISL88014IH5Z-TKTR-ND	Dual Adjustable Voltage Monitor*	SOT-23-5	880.00/1,000		
ISL88015IH5Z-TKCT-ND	Dual Adjustable Voltage Monitor*	SOT-23-5	2.31	1.39	1.17
ISL88015IH5Z-TKTR-ND	Dual Adjustable Voltage Monitor*	SOT-23-5	950.00/1,000		
ISL88021IU8FAZ-TKCT-ND	Triple Undervoltage Monitor*	8-MSOP	3.04	1.87	1.59
ISL88021IU8FAZ-TKTR-ND	Triple Undervoltage Monitor*	8-MSOP	1310.00/1,000		
ISL88021IU8FCZ-TKCT-ND	Triple Undervoltage Monitor*	8-MSOP	3.04	1.87	1.59
ISL88021IU8HEZ-TKCT-ND	Triple Undervoltage Monitor*	8-MSOP	3.04	1.87	1.59
ISL88022IU8FCZ-TKCT-ND	Triple Overvoltage Monitor*	8-MSOP	3.04	1.87	1.59
ISL88031IU8EAZ-TKCT-ND	Quintuple Voltage Monitor*	8-MSOP	3.36	2.08	1.79
ISL88031IU8EAZ-TKTR-ND	Quintuple Voltage Monitor*	8-MSOP	1490.00/1,000		
ISL88031IU8ECZ-TKCT-ND	Quintuple Voltage Monitor*	8-MSOP	3.36	2.08	1.79
ISL88031IU8ECZ-TKTR-ND	Quintuple Voltage Monitor*	8-MSOP	1490.00/1,000		
ISL88031IU8HAZ-TKCT-ND	Quintuple Voltage Monitor*	8-MSOP	3.36	2.08	1.79
ISL88031IU8HEZ-TKCT-ND	Quintuple Voltage Monitor*	8-MSOP	3.36	2.08	1.79
ISL88031IU8HFZ-TKCT-ND	Quintuple Voltage Monitor*	8-MSOP	3.36	2.08	1.79
ISL9203CRZ-TR5220CT-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	2.15	1.27	1.07
ISL9203CRZ-TR5220TR-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	5218.20/6,000		
ISL9203CRZR5220-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	2.15	1.27	.87
ISL9204IRZ-TCT-ND	High Input Voltage Charger*	8-DFN	2.79	1.71	1.46
ISL9204IRZ-TTR-ND	High Input Voltage Charger*	8-DFN	7200.00/6,000		

intersil REALTIME CLOCKS

RealTime Clock/Calendars with dual alarms (programmable frequency output X1227 and X1228 only), and on chip oscillator compensation. The X1227 and X1228 are also CPU Supervisor circuits with two polled alarms. The clock and alarm registers allow the clock to operate without loss of accuracy, even during read and write operations. The clock/calendar provides functionality that is controllable and readable through a set of registers. The clock, using a low-cost 32.768kHz crystal input, accurately tracks the time in seconds, minutes, hours, date, day, month and years. 2-wire interface interoperable with 512 x 8 bits of I^2C EEprom. The Supervisor circuits come in 4 reset voltages.

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL1208IB8Z-ND	Low Power RTC with Battery Backed SRAM*	8-SOIC	2.82	1.73	1.10
ISL1208IB8Z-TKCT-ND	Low Power RTC with Battery Backed SRAM*	8-SOIC	2.82	1.73	1.42
ISL1208IB8Z-TKTR-ND	Low Power RTC with Battery Backed SRAM*	8-SOIC	1092.00/1,000		
ISL1208IU8Z-ND	Low Power RTC with Battery Backed SRAM*	8-MSOP	3.42	2.11	1.37
ISL1209IU10Z-ND	Low Power RTC with Battery Backed SRAM/Event Detection*	10-MSOP	3.57	2.22	1.48
ISL1209IU10Z-TKCT-ND	Low Power RTC with Battery Backed SRAM/Event Detection*	10-MSOP	3.57	2.22	1.85
ISL1209IU10Z-TKTR-ND	Low Power RTC with Battery Backed SRAM/Event Detection*	10-MSOP	1476.00/1,000		
ISL12026IBZ-TCT-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	3.86	2.40	2.00
ISL12026IBZ-TTR-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	3990.00/2,500		
ISL12026IVZ-TCT-ND	Real Time Clock/Calendar with EEPROM*	8-TSSOP	4.00	2.49	2.07
ISL12026IVZ-TTR-ND	Real Time Clock/Calendar with EEPROM*	8-TSSOP	4140.00/2,500		
ISL12027IB27Z-TCT-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	4.40	2.83	2.36
ISL12027IB27Z-TTR-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	4710.00/2,500		
ISL12027IBZ-TCT-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	4.40	2.83	2.36
ISL12027IBZ-TTR-ND	Real Time Clock/Calendar with EEPROM*	8-SOIC	4710.00/2,500		
ISL12027IV27Z-TCT-ND	Real Time Clock/Calendar with EEPROM*	8-TSSOP	4.54	2.84	2.39
ISL12027IV27Z-TTR-ND	Real Time Clock/Calendar with EEPROM*	8-TSSOP	4860.00/2,500		
ISL12028IB27Z-TCT-ND	Real Time Clock/Calendar with EEPROM*	14-SOIC	4.79	3.00	2.53
ISL12028IB27Z-TTR-ND	Real Time Clock/Calendar with EEPROM*	14-SOIC	5130.00/2,500		
ISL12028IBZ-TCT-ND	Real Time Clock/Calendar with EEPROM*	14-SOIC	4.79	3.00	2.53
ISL12028IBZ-TTR-ND	Real Time Clock/Calendar with EEPROM*	14-SOIC	5130.00/2,500		
ISL12028IV27Z-TCT-ND	Real Time Clock/Calendar with EEPROM*	14-TSSOP	4.84	3.08	2.60
ISL12028IV27Z-TTR-ND	Real Time Clock/Calendar with EEPROM*	14-TSSOP	5280.00/2,500		
ISL12029IB27Z-TCT-ND	Real Time Clock/Calendar with EEPROM*	14-SOIC	4.79	3.00	2.53
ISL12029IB27Z-TTR-ND	Real Time Clock/Calendar with EEPROM*	14-SOIC	5130.00/2,500		
ISL12029IBZ-TCT-ND	Real Time Clock/Calendar with EEPROM*	14-SOIC	4.79	3.00	2.53
ISL12029IBZ-TTR-ND	Real Time Clock/Calendar with EEPROM*	14-SOIC	5130.00/2,500		
ISL12029IV27Z-TCT-ND	Real Time Clock/Calendar with EEPROM*	14-TSSOP	4.84	3.08	2.60
ISL12029IV27Z-TTR-ND	Real Time Clock/Calendar with EEPROM*	14-TSSOP	5280.00/2,500		
X1227S8IZ-ND	RTC, 4.25-4.51V CPU Supervisor with WDT EE, Reset Low*	8-SOIC	7.97	5.65	3.99
X1227S8-2.7-ND	RTC, 2.57-2.73V CPU Supervisor with WDT EE, Reset Low	8-SOIC	7.95	5.41	3.82
X1227S8IZ-2.7-ND	RTC, 2.57-2.73V CPU Supervisor with WDT EE, Reset Low*	8-SOIC	7.97	5.65	3.99
X1227S8-2.7A-ND	RTC, 2.76-2.94V CPU Supervisor with WDT EE, Reset Low	8-SOIC	6.84	4.77	4.14
X1228S14-ND	RTC, 4.25-4.51V CPU Supervisor with WDT 4K EE, Reset Low	14-SOIC	7.97	5.65	3.99
X1228S14IZ-ND	RTC, 4.25-4.51V CPU Supervisor with WDT 4K EE, Reset Low*	14-SOIC	8.33	5.90	4.17
X1228S14-2.7A-ND	RTC, 2.76-2.94V CPU Supervisor with WDT 4K EE, Reset Low	14-SOIC	7.97	5.65	3.99
X1228S14-4.5A-ND	RTC, 4.49-4.77V CPU Supervisor with WDT 4K EE, Reset Low	14-SOIC	7.97	5.65	3.99

intersil SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ISL29000IROZ-ND	Ambient Light Photo Detect*	5-DFN	1.86	1.06	.71
ISL45041IRZ-ND	I^2C LCD Module Calibrator*	8-DFN	3.15	1.95	1.40
ISL45042IRZ-ND	LCD Module Calibrator*	8-DFN	2.95	1.81	1.28
ISL55100AIRZ-TCT-ND	Quad 18V Pin Electronics Driver/ Window Comparator*	72-QFN	25.58	19.19	17.27
ISL55100AIRZ-TTR-ND	Quad 18V Pin Electronics Driver/ Window Comparator*	72-QFN	46044.00/3,000		
X80200V20I-ND	0.9V Power Supply Sequencer	20-TSSOP	5.93	3.95	3.54
X80201V20I-ND	0.9V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X80202V20I-ND	1.7V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X80203V20I-ND	0.9V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X80204V20I-ND	0.9V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X96010V14IZ-ND	Sensor Conditioner with Dual Look Up Table Memory and DAC*	14-TSSOP	5.67	3.78	2.92
X96011V14IZ-ND	Temperature Sensor with Look Up Table Memory and DAC*	14-TSSOP	5.17	3.29	2.51
X96012V14I-ND	Sensor Conditioner with DAC	14-TSSOP	5.95	3.97	3.06
X96012V14IZ-ND	Sensor Conditioner with DAC*	14-TSSOP	5.95	3.97	3.06

intersil SWITCHES, ARRAYS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CD22M3494MQZ-ND	16x8x1 BiMOS-E Crosspoint Switch*	44-PLCC	9.22	6.34	5.12
DG401DYZ-TCT-ND	Mono CMOS Analog Switch*	16-SOIC	2.44	1.47	1.24
DG401DYZ-TTR-ND	Mono CMOS Analog Switch*	16-SOIC	2499.38/2,500		
DG403DYZ-ND	Mono CMOS Analog Switch*	16-SOIC	1.62	.90	.60
DG406DYZ-ND	Single 16-Channel CMOS Analog Mux*	28-SOIC	5.72	3.81	2.94
DG411DJZ-ND	Mono Quad SPST, CMOS Analog Switch*	16-PDip	2.04	1.17	.80
DG411DYZ-ND	Mono Quad SPST, CMOS Analog Switch*	16-SOIC	1.87	1.10	.73
DG412DYZ-ND	Mono Quad SPST, CMOS Analog Switch*	16-SOIC	1.94	1.14	.76
DG413DJZ-ND	Mono Quad SPST, CMOS Analog Switch*	16-Dip	2.07	1.19	.82
DG441DYIS-ND	Mono Quad SPST, CMOS Analog Switch	16-SOIC	1.79	1.02	.68
DG442DYIS-ND	Mono Quad SPST, CMOS Analog Switch	16-SOIC	2.14	1.23	.84
DG444DYIS-ND	Mono Quad SPST, CMOS Analog Switch	16-SOIC	1.82	1.04	.69
DG445DYIS-ND	Mono Quad SPST, CMOS Analog Switch	16-SOIC	1.79	1.02	.68
EL4544IGZ-ND	Triple 16x5 Differential to Single-Ended Crosspoint Switch*	356-BGA	52.73	41.33	34.20
HA456CM-ND	120MHz, Low Power, 8x8 Video Crosspoint Switch	44-PLCC	28.50	21.38	19.00
HFA3046B-ND	NPN Ultra High Freq. Transistor Array	14-SOIC	5.13	3.33	2.54
HFA3046BZ-ND	NPN Ultra High Freq. Transistor Array*	14-SOIC	5.13	3.33	2.54
HFA3096BZ-ND	Ultra High Freq. Transistor Array*	16-SOIC	3.68	2.29	1.70
HFA3101B-ND	Gilbert Cell Multiplier, Ultra High Freq.	8-SOIC	4.79	3.00	2.28
HFA3101BZ-ND	Gilbert Cell Multiplier Ultra High Freq.*	8-SOIC	4.79	3.00	2.28
HFA3127B-ND	NPN Ultra High Freq. Transistor Array	16-SOIC	4.79	3.00	2.28
HFA3127BZ-ND	NPN Ultra High Freq. Transistor Array*	16-SOIC	4.79	3.00	2.28
HFA3128B-ND	PNP Ultra High Freq. Transistor Array	16-SOIC	4.79	3.00	2.28
HI1-5047-5-ND	4PST CMOS Analog Switch	16-Dip	10.37	7.36	6.02
HI3-0201HS-5IS-ND	Quad SPST, High Speed CMOS Analog Switch	16-Dip	6.60	4.57	3.52
HI3-5043-5-ND	Dual SPDT CMOS Analog Switch	16-Dip	5.95	3.97	3.06
HI3-5043-5Z-ND	Dual SPDT CMOS Analog Switch*	16-PDip	5.95	3.97	3.06
HI3-5051-5-ND	Dual SPDT CMOS Analog Switch	16-Dip	12.85	9.31	7.62
ICL7673CPAZ-ND	Auto Battery Back-Up Switch*	8-PDip	1.90	1.12	.75
ICL7673CBAZA-TCT-ND	Auto Battery Back-Up Switch*	8-SOIC	2.44	1.47	1.24
ICL7673CBAZA-TTR-ND	Auto Battery Back-Up Switch*	8-SOIC	2500.00/2,500		
ISL43L110IHZ-TCT-ND	Ultra Low On-Resistance, SPST Analog Switch*	SC70-5	1.59	.86	.72
ISL43L110IHZ-TTR-ND	Ultra Low On-Resistance, SPST Analog Switch*	SC70-5	1710.00/3,000		
ISL43L111IHZ-TCT-ND	Ultra Low On-Resistance, SPST Analog Switch*	SC70-5	1.59	.86	.72
ISL43L111IHZ-TTR-ND	Ultra Low On-Resistance, SPST Analog Switch*	SC70-5	1710.00/3,000		
ISL43L120IR-ND	Single Supply, Dual SPST Analog Switch, N/O	8-DFN	2.95	1.81	1.28
ISL43L120IU-ND	Single Supply, Dual SPST Analog Switch, N/O	8-MSOP	2.79	1.71	1.20
ISL43L121IR-ND	Single Supply, Dual SPST Analog Switch, N/C	8-DFN	2.95	1.81	1.28

***** **RoHS Compliant**

(Continued)

SWITCHES, ARRAYS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ISL43L121IU-ND	Single Supply, Dual SPST Analog Switch, N/C	8-MSOP	2.79	1.71	1.20
ISL43L122IU-ND	Single Supply, Dual SPST Analog Switch, N/O, N/C	8-MSOP	2.79	1.71	1.20
ISL43L210IHZ-TCT-ND	1.1V-4.5V Single Supply SPDT Analog Switch*	SC70-6	1.59	.86	.72
ISL43L210IHZ-TTR-ND	1.1V-4.5V Single Supply SPDT Analog Switch*	SC70-6	1710.54/3,000		
ISL43L220IR-ND	Low Voltage, Single Supply, Dual SPDT Analog Switch	10-DFN	3.57	2.21	1.59
ISL43L220IRZCT-ND	Low Voltage, Single Supply, Dual SPDT Analog Switch*	10-DFN	3.57	2.21	—
ISL43L220IRZTR-ND	Low Voltage, Single Supply, Dual SPDT Analog Switch*	10-DFN	159.00/100		
ISL43L220IRZ-TCT-ND	Low Voltage, Single Supply, Dual SPDT Analog Switch*	10-DFN	3.57	2.22	1.93
ISL43L220IRZ-TTR-ND	Low Voltage, Single Supply, Dual SPDT Analog Switch*	10-DFN	9837.54/6,000		
ISL43L410IRZ-ND	Ultra Low On-Resistance, DPDT Analog Switch*	10-DFN	2.95	1.81	1.28
ISL43L410IRZ-TCT-ND	Ultra Low On-Resistance, DPDT Analog Switch*	10-DFN	3.07	1.89	1.61
ISL43L410IRZ-TTR-ND	Ultra Low On-Resistance, DPDT Analog Switch*	10-DFN	7918.02/6,000		
ISL43L420IRZ-ND	Ultra Low On-Resistance, Quad SPDT Analog Switch*	16-QFN	3.94	2.45	1.82
ISL43L420IRZ-TCT-ND	Ultra Low On-Resistance, Quad SPDT Analog Switch*	16-QFN	4.06	2.52	2.20
ISL43L420IRZ-TTR-ND	Ultra Low On-Resistance, Quad SPDT Analog Switch*	16-QFN	11222.40/6,000		
ISL43L710IR-ND	Single Supply, Diff. SPST Analog Switch, N/O	8-DFN	2.95	1.81	1.28
ISL43L710IU-ND	Single Supply, Diff. SPST Analog Switch, N/O	8-MSOP	2.79	1.71	1.20
ISL43L712IR-ND	Single Supply, Diff. SPST Analog Switch, N/O, N/C	8-DFN	2.95	1.81	1.28
ISL43L841IRZ-ND	Ultra Low On-Resistance, Differential 4-to-1 Analog Multiplexer*	16-TQFN	3.60	2.24	1.66
ISL83699IRZ-ND	Ultra Low On-Resistance, Low Voltage Single Supply, Quad SPDT Analog Switch*	16-QFN	3.60	2.24	1.66
ISL83699IRZ-TCT-ND	Ultra Low On-Resistance, Low Voltage Single Supply, Quad SPDT Analog Switch*	16-QFN	3.68	2.29	1.99
ISL83699IRZ-TTR-ND	Ultra Low On-Resistance, Low Voltage Single Supply, Quad SPDT Analog Switch*	16-QFN	10140.00/6,000		
ISL8391IBZ-ND	Low Volt., Single and Dual Supply, Quad SPST, Analog Switch*	16-SOIC	4.68	2.93	2.23
ISL84582IVZ-ND	Low Voltage, Single and Dual Supply Diff. 4-to-1 Multiplexer*	16-TSSOP	3.21	1.98	1.43
ISL84684IIZ-TCT-ND	Ultra Low On-Resistance, Low Voltage, Dual SPDT Analog Switch*	10-Ball	2.69	1.60	1.36
ISL84684IIZ-TTR-ND	Ultra Low On-Resistance, Low Voltage, Single SPDT Analog Switch*	10-Ball	3359.16/3,000		
ISL84684IRZ-ND	Dual SPDT Analog Switch*	10-DFN	2.56	1.52	1.08
ISL84684IRZ-TCT-ND	Dual SPDT Analog Switch*	10-DFN	2.69	1.60	1.36
ISL84684IRZ-TTR-ND	Dual SPDT Analog Switch*	10-DFN	6718.32/6,000		
ISL84684IUZ-ND	Dual SPDT Analog Switch*	10-MSOP	2.47	1.49	1.01
ISL84684IUZ-TCT-ND	Dual SPDT Analog Switch*	10-MSOP	2.56	1.52	1.30
ISL84684IUZ-TTR-ND	Dual SPDT Analog Switch*	10-MSOP	2675.00/2,500		
ISL84780IRZ-TCT-ND	Low Voltage, Quad 2:1 Multiplexer*	16-QFN	3.68	2.29	1.99
ISL84780IRZ-TTR-ND	Low Voltage, Quad 2:1 Multiplexer*	16-QFN	10140.00/6,000		
ISL84780IVZ-TCT-ND	Low Voltage, Quad 2:1 Multiplexer*	16-TSSOP	3.57	2.22	1.93
ISL84780IVZ-TTR-ND	Low Voltage, Quad 2:1 Multiplexer*	16-TSSOP	4098.98/2,500		
ISL84781IRZ-TCT-ND	Low Voltage, 8-to-1 Multiplexer*	16-QFN	3.68	2.29	1.99
ISL84781IRZ-TTR-ND	Low Voltage, 8-to-1 Multiplexer*	16-QFN	10142.22/6,000		
ISL84782IRZ-ND	Low Voltage, Diff. 4-to-1 Multiplexer*	16-QFN	3.60	2.24	1.66
ISL84782IRZ-TCT-ND	Low Voltage, Diff. 4-to-1 Multiplexer*	16-QFN	3.68	2.29	1.99
ISL84782IRZ-TTR-ND	Low Voltage, Diff. 4-to-1 Multiplexer*	16-QFN	10140.00/6,000		
ISL8484IRZ-ND	Dual SPDT Analog Switch*	10-DFN	2.56	1.52	1.08
ISL8484IRZ-TCT-ND	Dual SPDT Analog Switch*	10-DFN	2.69	1.60	1.36
ISL8484IRZ-TTR-ND	Dual SPDT Analog Switch*	10-DFN	6718.32/6,000		
ISL8484IUZ-ND	Dual SPDT Analog Switch*	10-MSOP	2.47	1.49	1.01
ISL8484IUZ-TCT-ND	Dual SPDT Analog Switch*	10-MSOP	2.56	1.52	1.30
ISL8484IUZ-TTR-ND	Dual SPDT Analog Switch*	10-MSOP	2676.00/2,500		
ISL8499IRZ-ND	Ultra Low On-Resistance, Single Supply, Quad SPDT Analog Switch*	16-QFN	3.60	2.24	1.66
ISL8499IRZ-TCT-ND	Ultra Low On-Resistance, Single Supply, Quad SPDT Analog Switch*	16-QFN	3.68	2.29	1.99
ISL8499IRZ-TTR-ND	Ultra Low On-Resistance, Single Supply, Quad SPDT Analog Switch*	16-QFN	10142.22/6,000		
ISL8499IVZ-ND	Ultra Low On-Resistance, Single Supply, Quad SPDT Analog Switch*	16-TSSOP	3.57	2.21	1.59
ISL8499IVZ-TCT-ND	Ultra Low On-Resistance, Single Supply, Quad SPDT Analog Switch*	16-TSSOP	3.57	2.22	1.93
ISL8499IVZ-TTR-ND	Ultra Low On-Resistance, Single Supply, Quad SPDT Analog Switch*	16-TSSOP	4098.98/2,500		
ISL43110IB-ND	Low Voltage Single Supply, SPST, High Perf. Analog Switch	8-SOIC	1.82	1.04	.69
ISL43110IH-CT-ND	Low Voltage Single Supply, SPST, High Perf. Analog Switch	SOT-23-5	1.76	.98	.82
ISL43110IH-TR-ND	Low Voltage Single Supply, SPST, High Perf. Analog Switch	SOT-23-5	1950.00/3,000		
ISL43111IB-ND	Low Voltage Single Supply, SPST, High Perf. Analog Switch	8-SOIC	1.82	1.04	.69
ISL43111IH-CT-ND	Low Voltage Single Supply, SPST, High Perf. Analog Switch	SOT-23-5	1.84	1.35	.98
ISL43112IB-ND	Low Voltage Dual Supply, SPST, High Perf. Analog Switch	8-SOIC	1.97	1.16	.78
ISL43113IB-ND	Low Voltage Dual Supply, SPST, High Perf. Analog Switch	8-SOIC	1.97	1.16	.78
ISL43120IH-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-8	1.69	.94	.79
ISL43120IH-TR-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-8	1890.00/3,000		
ISL43120IHZ-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-8	1.69	.94	.79
ISL43120IHZ-TR-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-8	1890.00/3,000		
ISL43121IHZ-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-8	1.69	.94	.79
ISL43121IHZ-TR-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-8	1890.00/3,000		
ISL43140IB-ND	Low Voltage Quad SPST Analog Switch	16-SOIC	1.87	1.10	.73
ISL43143IR-ND	Low Voltage Quad SPST High Perf. Analog Switch	16-QFN	2.15	1.27	.87
ISL43144IR-ND	Low Voltage Quad SPST High Perf. Analog Switch	16-QFN	2.15	1.27	.87
ISL43210IH-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-6	1.69	.94	.79
ISL43210IH-TR-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-6	1890.00/3,000		
ISL43210IHZ-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-6	1.69	.94	.79
ISL43210IHZ-TR-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-6	1890.00/3,000		
ISL43231IR-ND	Low Voltage Single and Dual Supply, Triple SPDT Analog Switch	20-QFN	2.95	1.81	1.28
ISL43240IAZ-ND	Low Voltage, Single and Dual Supply, Quad SPDT High Perf., Analog Switch*	20-SSOP	3.89	2.42	1.80
ISL43240IR-ND	Low Voltage Single and Dual Supply, Quad SPDT, High Perf. Analog Switch	20-QFN	4.06	2.52	1.88
ISL43410IR-ND	Low Voltage Single Supply, DPDT High Perf. Analog Switch	16-QFN	2.41	1.45	1.00
ISL43640IR-ND	Low Voltage, Single Supply, 4-to-1 Mux, High Perf. Analog Switch	16-QFN	2.41	1.45	1.00
ISL83699IV-ND	Low Voltage, Single Supply, Quad SPDT Analog Switch	16-TSSOP	3.57	2.21	1.59
ISL84053IAZ-ND	Low Voltage, Single and Dual Supply, Triple SPDT, Analog Switch*	16-QSOP	2.07	1.19	.82
ISL84053IBZ-ND	Low Voltage, Single and Dual Supply, Triple SPDT, Analog Switch*	16-SOIC	1.90	1.12	.75
ISL84515IH-CT-ND	Low Voltage Single Supply, SPST Analog Switch	SOT-23-5	1.94	1.14	.96
ISL84516IH-CT-ND	Low Voltage Dual Supply, SPST Analog Switch	SOT-23-5	1.77	1.32	.97
ISL84522IVZ-ND	Low Voltage, Single and Dual Supply, Quad SPST, Analog Switch*	16-TSSOP	2.31	1.39	.95
ISL84544CPZ-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	8-Dip	1.69	.94	.63
ISL84544IH-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-6	1.87	1.10	.92
ISL84544IH-TR-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-6	2190.00/3,000		
ISL84684IR-ND	Ultra Low ON-Resistance, Single Supply, Dual SPDT Analog Switch	10-DFN	2.56	1.52	1.08
ISL84714IH-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPDT Analog Switch	SC70-6	1.61	1.19	.86
ISL84714IHZ-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPDT Analog Switch*	SC70-6	1.59	.86	.72
ISL84714IHZ-TR-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPDT Analog Switch*	SC70-6	1710.00/3,000		
ISL84715IH-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch	SC70-5	1.61	1.19	.86
ISL84715IHZ-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch*	SC70-5	1.59	.86	.72
ISL84715IHZ-TR-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch*	SC70-5	1710.00/3,000		
ISL84716IH-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch	SC70-5	1.59	.86	.72
ISL84716IH-TR-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch	SC70-5	1710.00/3,000		
ISL84716IHZ-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch*	SC70-5	1.59	.86	.72
ISL84716IHZ-TR-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch*	SC70-5	1710.00/3,000		
ISL84780IRZ-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, Quad 2:1 Analog Mux*	16-QFN	3.60	2.24	1.66
ISL84780IVZ-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, Quad 2:1 Analog Mux*	16-TSSOP	3.57	2.21	1.59
ISL84781IRZ-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, 8:1 Analog Mux*	16-QFN	3.60	2.24	1.66

VIDEO COMMUNICATION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
EL1881CN-ND	Low Power Video Sync. Separator	8-Dip	2.64	1.62	1.13
EL1881CS-ND	Low Power Video Sync. Separator	8-SOIC	2.64	1.62	1.13
EL1881CSZ-ND	Low Power Video Sync. Separator*	8-SOIC	2.64	1.62	1.13
EL1883IS-ND	Video Sync. Separator	8-SOIC	3.01	1.85	1.30
EL1883ISZ-ND	Video Sync. Separator*	8-SOIC	3.01	1.85	1.30
EL4511CU-ND	Super Sync. Separator	24-QSOP	8.57	6.07	4.29
EL4511CUZ-ND	Super Sync. Separator*	24-QSOP	8.57	6.07	4.29
EL4581CN-ND	Sync. Separator, 50% Slice, S-H, Filter	8-Dip	6.37	4.24	2.94
EL4581CS-ND	Sync. Separator, 50% Slice, S-H, Filter	8-SOIC	6.37	4.24	2.94
EL4581CSZ-T7CT-ND	Sync. Separator, 50% Slice, S-H, Filter*	8-SOIC	6.38	4.42	3.74
EL4581CSZ-T7TR-ND	Sync. Separator, 50% Slice, S-H, Filter*	8-SOIC	3060.00/1,000		
EL4583AISZ-ND	Sync. Separator, 50% Slice, S-H, Filter*	16-SOIC	9.66	6.85	5.04
EL4583CN-ND	Sync. Separator, 50% Slice, S-H, Filter	16-Dip	9.48	6.52	4.74
EL4583CS-ND	Sync. Separator, 50% Slice, S-H, Filter	16-SOIC	9.66	6.85	5.04
EL4583CSZ-ND	Sync. Separator, 50% Slice, S-H, Filter*	16-SOIC	9.66	6.85	5.04
EL4584CN-ND	36MHz General Purpose PLL	16-Dip	11.39	8.07	5.94
EL4584CS-ND	36MHz General Purpose PLL	16-SOIC	11.70	8.48	6.24
EL4584CSZ-ND	36MHz General Purpose PLL*	16-SOIC	11.70	8.48	6.24
EL4585CS-ND	36MHz General Purpose PLL	16-SOIC	11.70	8.48	6.24
EL4585CSZ-ND	36MHz General Purpose PLL*	16-SOIC	11.70	8.48	6.24
EL9115ILZ-ND	Triple Analog Video Delay Line*	20-QFN	41.91	31.99	26.48
HA4314BCB-ND	400MHz, 4x1 Video Crosspoint Switch	14-SOIC	5.09	3.24	2.47
HA4344BCB-ND	350MHz, 4x1 Video Crosspoint Switch	16-SOIC	6.01	4.00	2.78
ISL59110IEZ-T7CT-ND	8MHz Rail-to-Rail Video Driver*	SC70-6	4.73	2.96	2.50
ISL59110IEZ-T7TR-ND	8MHz Rail-to-Rail Video Driver*	SC70-6	6084.00/3,000		
ISL59830IAZ-T13CT-ND	True Single Supply Video Driver*	16-QSOP	3.89	2.42	2.01
ISL59830IAZ-T13TR-ND	True Single Supply Video Driver*	16-QSOP	4020.00/2,500		
ISL59885ISZ-ND	Auto-Adj. Sync. Separator*	8-SOIC	4.70	2.94	2.02
ISL59885ISZ-T7CT-ND	Auto-Adj. Sync. Separator*	8-SOIC	4.90	3.12	2.63
ISL59885ISZ-T7TR-ND	Auto-Adj. Sync. Separator*	8-SOIC	2136.00/1,000		
ISL98001CQZ-140-ND	Triple Video Digitizer*	128-MQFP	20.08	14.82	11.48
ISL98001CQZ-170-ND	Triple Video Digitizer*	128-MQFP	29.74	22.31	17.85
ISL98001CQZ-210-ND	Triple Video Digitizer*	128-MQFP	40.34	30.79	25.48
ISL98001CQZ-240-ND	Triple Video Digitizer*	128-MQFP	49.10	38.49	31.85
ISL98001CQZ-275-ND	Triple Video Digitizer*	128-MQFP	83.62	66.90	57.34

** RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

intersil Digi-Reel® VOLTAGE REGULATORS
RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ISL6271ACRZ-TCT-ND	Integrated XScale Regulator	20-QFN	4.95	3.15	2.66
ISL6271ACRZ-TTR-ND	Integrated XScale Regulator	20-QFN	12960.00/6,000		
ISL6405ERZ-TCT-ND	Dual Output LNB Supply and Control Voltage Reg.	32-QFN	6.19	4.12	3.49
ISL6405ERZ-TTR-ND	Dual Output LNB Supply and Control Voltage Reg.	32-QFN	17136.00/6,000		
ISL6410AIRZ-TKCT-ND	Single Synchronous Buck Regulator	16-QFN	2.98	1.83	1.49
ISL6410AIRZ-TKTR-ND	Single Synchronous Buck Regulator	16-QFN	1152.00/1,000		
ISL6410AIUZ-TKCT-ND	Single Synchronous Buck Regulator	10-MSOP	3.27	2.02	1.67
ISL6410AIUZ-TKTR-ND	Single Synchronous Buck Regulator	10-MSOP	1308.00/1,000		
ISL6410IRZ-TKCT-ND	Single Synchronous Buck Regulator	16-QFN	2.98	1.83	1.49
ISL6410IRZ-TKTR-ND	Single Synchronous Buck Regulator	16-QFN	1152.00/1,000		
ISL6410IUZ-T5KCT-ND	Single Synchronous Buck Regulator	10-MSOP	3.24	2.00	1.65
ISL6410IUZ-T5KTR-ND	Single Synchronous Buck Regulator	10-MSOP	6480.00/5,000		
ISL6455AIRZ-TKCT-ND	Triple Output Regulator	24-QFN	4.82	3.01	2.54
ISL6455AIRZ-TKTR-ND	Triple Output Regulator	24-QFN	2064.00/1,000		
ISL6455IRZ-TKCT-ND	Triple Output Regulator	24-QFN	4.82	3.01	2.54
ISL6455IRZ-TKTR-ND	Triple Output Regulator	24-QFN	2064.00/1,000		
ISL8010IUZ-T7CT-ND	600mA Step-Down Regulator	10-MSOP	3.18	1.97	1.62
ISL8010IUZ-T7TR-ND	600mA Step-Down Regulator	10-MSOP	1908.00/1,500		
ISL8013IRZ-TCT-ND	3A, 1MHz Synchronous Buck Regulator **NEW!**	16-QFN	7.20	4.50	3.80
ISL8013IRZ-TTR-ND	3A, 1MHz Synchronous Buck Regulator **NEW!**	16-QFN	9252.00/3,000		
ISL8014IRZ-TCT-ND	4A, 1MHz Synchronous Buck Regulator **NEW!**	16-QFN	7.78	4.87	4.11
ISL8014IRZ-TTR-ND	4A, 1MHz Synchronous Buck Regulator **NEW!**	16-QFN	20016.00/6,000		
ISL9000IRFJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRFJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7558.20/6,000		
ISL9000IRGCZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRGCZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7558.20/6,000		
ISL9000IRJBZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRJBZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7558.20/6,000		
ISL9000IRJCZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRJCZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7558.20/6,000		
ISL9000IRJMZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRJMZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7558.20/6,000		
ISL9000IRJRZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRJRZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7558.20/6,000		
ISL9000IRKCZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRKCZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7560.00/6,000		
ISL9000IRKFZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRKFZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7558.20/6,000		
ISL9000IRKJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRKJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7558.20/6,000		
ISL9000IRKKZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRKKZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7558.20/6,000		
ISL9000IRLLZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRLLZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7558.20/6,000		
ISL9000IRMMZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRMMZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7560.00/6,000		
ISL9000IRNFZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRNFZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7560.00/6,000		
ISL9000IRNJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRNJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7560.00/6,000		
ISL9000IRPLZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.95	1.81	1.54
ISL9000IRPLZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7558.20/6,000		
ISL9007IUFZ-TCT-ND	High Current LDO	8-MSOP	1.75	1.00	.84
ISL9007IUFZ-TTR-ND	High Current LDO	8-MSOP	1675.00/2,500		
ISL9007IUJZ-TCT-ND	High Current LDO	8-MSOP	1.75	1.00	.84
ISL9007IUJZ-TTR-ND	High Current LDO	8-MSOP	1675.00/2,500		
ISL9007IUKZ-TCT-ND	High Current LDO	8-MSOP	1.75	1.00	.84
ISL9007IUKZ-TTR-ND	High Current LDO	8-MSOP	1675.00/2,500		
ISL9007IUNZ-TCT-ND	High Current LDO	8-MSOP	1.75	1.00	.84
ISL9007IUNZ-TTR-ND	High Current LDO	8-MSOP	1675.00/2,500		
ISL9011IRBJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRBJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRFJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRFJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRGCZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRGCZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRJBZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRJBZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRJCZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRJCZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRJMZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRJMZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRJRZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRJRZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRKCZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRKCZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRKFZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRKFZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRKJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRKJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRKKZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRKKZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRLLZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRLLZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRMMZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRMMZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRNFZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRNFZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRNJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRNJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9011IRPLZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.56	1.52	1.30
ISL9011IRPLZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6360.00/6,000		
ISL9012IRBJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRBJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRFJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRFJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRGCZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRGCZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRJBZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRJBZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRJCZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRJCZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRJMZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRJMZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRJRZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRJRZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRKCZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRKCZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRKFZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRKFZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRKJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRKJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRKKZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRKKZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRLLZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRLLZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRMMZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRMMZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRNFZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRNFZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6600.00/6,000		
ISL9012IRNJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRNJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9012IRPLZ-TCT-ND	Dual LDO with Low Noise	10-DFN	2.66	1.58	1.34
ISL9012IRPLZ-TTR-ND	Dual LDO with Low Noise	10-DFN	6598.50/6,000		
ISL9014IRBJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRBJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRFJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRFJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRGCZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRGCZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRJBZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRJBZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRJCZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRJCZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRJMZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRJMZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRJRZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRJRZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRKCZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRKCZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRKFZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRKFZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRKJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRKJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRKKZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRKKZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRLLZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRLLZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRMMZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRMMZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRNFZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRNFZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7860.00/6,000		
ISL9014IRNJZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRNJZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		
ISL9014IRPLZ-TCT-ND	Dual LDO with Low Noise	10-DFN	3.04	1.87	1.59
ISL9014IRPLZ-TTR-ND	Dual LDO with Low Noise	10-DFN	7861.56/6,000		

intersil VOLTAGE REFERENCE — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
EL5225IRZ-ND	10-Ch. TFT-LCD Reference Voltage Generator	24-TSSOP	6.78	4.69	3.63
EL5226IRZ-ND	10-Ch. TFT-LCD Reference Voltage Generator	28-TSSOP	8.54	6.06	4.75
EL5325AIREZ-ND	12-Ch. TFT-LCD Reference Voltage Generator	28-TSSOP	8.00	5.44	4.27
EL5325IREZ-ND	12-Ch. TFT-LCD Reference Voltage Generator	28-TSSOP	8.00	5.44	4.27
EL5325IRZ-ND	12-Ch. TFT-LCD Reference Voltage Generator	28-TSSOP	7.75	5.27	4.13
EL5326IRZ-ND	12-Ch. TFT-LCD Reference Voltage Generator	28-TSSOP	7.75	5.27	4.13
EL5525IREZ-ND	18-Ch. TFT-LCD Reference Voltage Generator	38-HTSSOP	7.10	4.83	3.80
EL5825ILZ-ND	8-Ch. TFT-LCD Reference Voltage Generator	24-QFN	6.95	4.81	3.34
EL5825IRZ-ND	8-Ch. TFT-LCD Reference Voltage Generator	24-TSSOP	6.95	4.81	3.34
EL9200ILZ-ND	Programmable Vcom	12-DFN	5.72	3.81	2.64
EL9201ILZ-ND	Programmable Vcom	24-QFN	6.25	4.33	3.00
EL9202ILZ-ND	Programmable Vcom	24-QFN	7.00	4.76	3.36
ISL21009DFB825Z-ND	Precision 2.5V, 3ppm FGA™ Voltage Reference	8-SOIC	6.30	4.36	3.03
ISL97702IRZ-ND	Boost with Dual Reference Output	10-DFN	3.33	2.06	1.48
ISL60002BIH312Z-TKCT-ND	Precision 1.25V, 20ppm FGA™ Voltage Reference	SOT-23	5.56	3.71	3.14
ISL60002BIH312Z-TKTR-ND	Precision 1.25V, 20ppm FGA™ Voltage Reference	SOT-23	2568.00/1,000		
ISL60002BIH325Z-TKCT-ND	Precision 2.5V, 20ppm FGA™ Voltage Reference	SOT-23	5.56	3.71	3.14
ISL60002BIH325Z-TKTR-ND	Precision 2.5V, 20ppm FGA™ Voltage Reference	SOT-23	2568.00/1,000		
X60003CIG3Z-41T1CT-ND	Precision 4.096V, 20ppm FGA™ Volt. Reference	SOT-23	4.00	2.49	2.07
X60003CIG3Z-41T1TR-ND	Precision 4.096V, 20ppm FGA™ Volt. Reference	SOT-23	4968.00/3,000		
X60003CIG3Z-50T1CT-ND	Precision 5V, 20ppm FGA™ Voltage Reference	SOT-23	4.00	2.49	2.07
X60003CIG3Z-50T1TR-ND	Precision 5V, 20ppm FGA™ Voltage Reference	SOT-23	4968.00/3,000		
X60250V8IZ-ND	Micro Power Programmable Voltage Reference	8-TSSOP	4.40	2.83	1.89

SMSC™ SUCCESS BY DESIGN Digi-Reel® CONTROLLERS (ETHERNET / I/O / USB / CircLink™ etc.) — *RoHS Compliant*

SMSC Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
COM20019I-DZD	638-1000-5-ND	Low Cost ARCNET Controller	28-PLCC	13.28	11.95	9.30
COM20020I-DZD	638-1001-5-ND	Universal Local Area Network Controller	28-PLCC	26.53	22.41	18.87
COM20020I3V-DZD	638-1002-5-ND	Universal Local Area Network Controller	28-PLCC	26.53	22.41	18.87
COM20022I-HT	638-1003-ND	10Mbps ARCNET Controller	48-TQFP	30.13	25.45	21.43
COM20022I3V-HT	638-1004-ND	10Mbps ARCNET Controller	48-TQFP	30.40	25.67	21.62
EMC1002-2-ACZL-TR	638-1045-1-ND	Dual SMBus Temp. Sensor **NEW!**	8-MSOP	2.60	1.99	1.74
EMC1002-2-ACZL-TR	638-1045-2-ND	Dual SMBus Temp. Sensor **NEW!**	8-MSOP	3224.00/4,000		
EMC1043-2-ACZL-TR	638-1069-1-ND	Triple SMBus Temp. Sensor **NEW!**	8-MSOP	2.94	2.24	1.96
EMC1043-2-ACZL-TR	638-1069-2-ND	Triple SMBus Temp. Sensor **NEW!**	8-MSOP	3640.00/4,000		
EMC1043-5-ACZL-TR	638-1070-1-ND	Triple SMBus Temp. Sensor **NEW!**	8-MSOP	2.94	2.24	1.96
EMC1043-5-ACZL-TR	638-1070-2-ND	Triple SMBus Temp. Sensor **NEW!**	8-MSOP	3640.00/4,000		
EMC1402-1-ACZL-TR	638-1067-1-ND	3.3V Dual SMBus Temperature Sensor **NEW!**	8-MSOP	1.94	1.49	1.31

(Continued)

Dial in Your Power Supply

New SIMPLE SWITCHER® Family Delivers Customized Performance and Flexibility to Fit Your Design

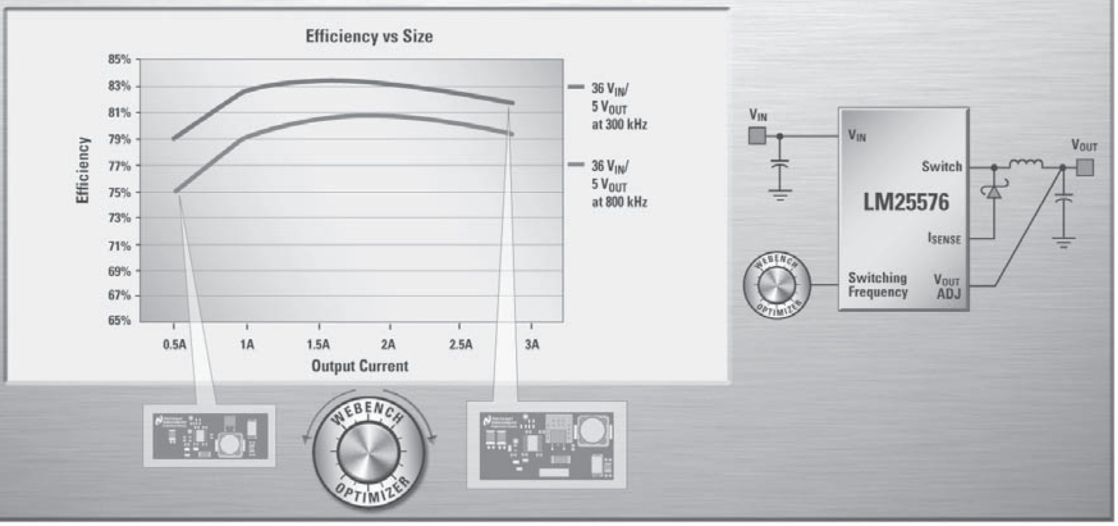

Product ID	Digi-Key No.	V_{IN} Range (V)	V_{OUT} (V) Min	I_{OUT} (A)	f_{SWITCH} Range	Packaging
LM5576	**LM5576MH-ND**	6 to 75	1.225	3	50 kHz to 500 kHz	TSSOP20-EP
LM25576	**LM25576MH-ND**	6 to 42	1.225	3	50 kHz to 1 MHz	TSSOP20-EP
LM5575	**LM5575MH-ND**	6 to 75	1.225	1.5	50 kHz to 500 kHz	TSSOP16-EP
LM25575	**LM25575MH-ND**	6 to 42	1.225	1.5	50 kHz to 1 MHz	TSSOP16-EP
LM5574	**LM5574MT-ND**	6 to 75	1.225	0.5	50 kHz to 500 kHz	TSSOP-16
LM25574	**LM25574MT-ND**	6 to 42	1.225	0.5	50 kHz to 1 MHz	TSSOP-16

New Emulated Current Mode (ECM) SIMPLE SWITCHER Family

- High V_{IN} to low V_{OUT} step-down ratios
- Superior transient response
- Fast design, guaranteed performance and flexibility

Ideal for when you need to quickly design a power supply optimized for your design that's guaranteed to work

For eval boards, samples, datasheets, WEBENCH® online design tools and more information on the SIMPLE SWITCHER family, contact us today at: switcher.national.com
Or call: 1-800-272-9959

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SMSC SUCCESS BY DESIGN

CONTROLLERS (ETHERNET / I/O / USB / CircLink™ etc.) *RoHS Compliant (Continued)*

SMSC Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
EMC1402-1-ACZL-TR	638-1067-2-ND	3.3V Dual SMBus Temperature Sensor ***NEW!***	8-MSOP	2430.00/4,000		
EMC1403-1-AIZL-TR	638-1068-1-ND	3.3V Triple SMBus Temperature Sensor ***NEW!***	10-MSOP	2.94	2.24	1.96
EMC1403-1-AIZL-TR	638-1068-2-ND	3.3V Triple SMBus Temperature Sensor ***NEW!***	10-MSOP	3640.00/4,000		
FDC37B727-NS	638-1005-ND	128-Pin Enhanced Super I/O Controller	128-QFP	14.73	13.26	10.31
FDC37B787-NS	638-1006-ND	Super I/O Controller with ACPI Support	128-QFP	19.45	17.51	13.62
FDC37C665GT-MS	638-1007-ND	Multi-Mode™ Parallel Port Super I/O Floppy Disk Controller	100-QFP	22.25	20.03	15.58
FDC37C669-MT	638-1008-ND	PC 98/99 Compliant Super I/O Floppy Disk Controller with Infrared Support	100-TQFP	15.55	14.00	10.89
LAN83C185-JT	638-1009-ND	High Performance Single Chip LP 10/100 Ethernet Physical Layer Transceiver	64-TQFP	6.15	5.13	4.31
LAN91C111I-NS	638-1014-ND	10/100 Non-PCI Ethernet Single Chip	128-QFP	34.54	29.17	24.56
LAN91C111I-NU	638-1015-ND	10/100 Non-PCI Ethernet Single Chip	128-TQFP	34.29	28.96	24.39
LAN91C111-NS	638-1016-ND	10/100 Non-PCI Ethernet Single Chip	128-QFP	31.57	26.66	22.45
LAN91C111-NU	638-1017-ND	10/100 Non-PCI Ethernet Single Chip	128-TQFP	32.18	27.17	22.88
LAN91C96-MU	638-1018-ND	Non-PCI Single Chip Full Duplex Ethernet Controller with Magic Packet	100-TQFP	22.98	20.68	16.09
LAN8700C-AEZG	638-1046-ND	ESD Protected 10/100 Ethernet Transceiver ***NEW!***	36-QFN	2.56	2.24	1.92
LAN8700iC-AEZG	638-1047-ND	ESD Protected 10/100 Ethernet Transceiver, Ind. Temp ***NEW!***	36-QFN	3.00	2.50	2.10
LAN9115-MT	638-1010-ND	Highly Efficient Single Chip 10/100 Non-PCI Ethernet Controller	100-TQFP	13.75	12.38	9.63
LAN9116-MT	638-1011-ND	Highly Efficient Single Chip 10/100 Non-PCI Ethernet Controller	100-TQFP	18.38	16.54	12.87
LAN9117-MT	638-1012-ND	Highly Performance Single Chip 10/100 Non-PCI Ethernet Controller	100-TQFP	18.75	16.88	13.13
LAN9118-MT	638-1013-ND	Highly Performance Single Chip 10/100 Non-PCI Ethernet Controller	100-TQFP	27.00	22.80	19.20
LAN9210-ABZJ	638-1048-ND	Single-Chip Ethernet Controller ***NEW!***	56-QFN	12.50	11.12	8.80
LAN9211-ABZJ	638-1049-ND	Single-Chip Ethernet Controller ***NEW!***	56-QFN	23.75	21.38	16.63
LPC47B272-MS	638-1019-ND	100-Pin Enhanced Super I/O Controller with LPC Interface	100-QFP	17.50	15.75	12.25
SCH3112-NU	638-1020-ND	LPC I/O with 8042 KBC, Reset Generation, HWM and Multiple Serial Ports	128-VTQFP	13.37	11.88	9.41
SCH3114-NU	638-1021-ND	LPC I/O with 8042 KBC, Reset Generation, HWM and Multiple Serial Ports	128-VTQFP	18.38	16.54	12.87
SCH3116-NU	638-1022-ND	LPC I/O with 8042 KBC, Reset Generation, HWM and Multiple Serial Ports	128-VTQFP	24.50	22.05	17.15
TMC2074-NU	638-1024-ND	Dual Mode CircLink™ Controller	128-VTQFP	24.75	20.90	17.60
TMC2084-HT	638-1025-ND	Stand-Alone Mode CircLink™ Controller	48-TQFP	15.00	13.50	10.50
USB2502-AEZG	638-1029-ND	2-Port USB 2.0 Hub Controller	36-QFN	5.85	4.88	4.10
USB2503A-HZH	638-1030-ND	Integrated USB 2.0 Compatible 3-Port Hub	48-QFN	7.02	6.24	4.94
USB2504A-JT	638-1031-ND	Integrated USB 2.0 Compatible 4-Port Hub	64-TQFP	8.10	7.20	5.70
USB2507-ADT	638-1032-ND	Integrated USB 2.0 Compatible 7-Port Hub	80-TQFP	10.40	9.24	7.32
USB2512-AEZG	638-1050-ND	USB 2.0 Hub Controller, 2-Port ***NEW!***	36-QFN	4.35	3.63	3.05
USB2512I-AEZG	638-1051-ND	USB 2.0 Hub Controller, 2-Port ***NEW!***	36-QFN	6.69	5.58	4.69
USB2513-AEZG	638-1052-ND	USB 2.0 Hub Controller, 3-Port ***NEW!***	36-QFN	4.74	3.95	3.32
USB2513I-AEZG	638-1053-ND	USB 2.0 Hub Controller, 3-Port ***NEW!***	36-QFN	7.11	5.93	4.98
USB2514-AEZG	638-1054-ND	USB 2.0 Hub Controller, 4-Port ***NEW!***	36-QFN	5.01	4.18	3.51
USB2514I-AEZG	638-1055-ND	USB 2.0 Hub Controller, 4-Port ***NEW!***	36-QFN	6.75	6.00	4.75
USB2524-ABZJ	628-1056-ND	USB 2.0 MultiSwitch™ Hub Controller ***NEW!***	56-QFN	8.53	7.59	6.01
USB3300-EZK	638-1034-ND	Hi-Speed USB Host, Device or OTG PHY with ULPI Low Pin Interface	32-QFN	2.56	2.24	1.92
USB3311-CP-TR	638-1057-1-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock ***NEW!***	24-QFN	3.36	2.56	2.24
USB3311-CP-TR	638-1057-2-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock ***NEW!***	24-QFN	4160.00/4,000		
USB3311-GJ-TR	638-1058-1-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock ***NEW!***	25-VFBGA	3.99	3.04	2.66
USB3311-GJ-TR	638-1058-2-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock ***NEW!***	25-VFBGA	4940.00/4,000		
USB3315-CP-TR	638-1059-1-ND	Hi-Speed USB Transceiver, ULPI Interface 24MHz Reference Clock ***NEW!***	24-QFN	3.36	2.56	2.24
USB3315-CP-TR	638-1059-2-ND	Hi-Speed USB Transceiver, ULPI Interface 24MHz Reference Clock ***NEW!***	24-QFN	4160.00/4,000		
USB3316B-CP-TR	638-1060-1-ND	Hi-Speed USB Transceiver, ULPI Interface 19.2MHz Reference Clock ***NEW!***	24-QFN	3.36	2.56	2.24
USB3316B-CP-TR	638-1060-2-ND	Hi-Speed USB Transceiver, ULPI Interface 19.2MHz Reference Clock ***NEW!***	24-QFN	4160.00/4,000		
USB3316B-GJ-TR	638-1061-1-ND	Hi-Speed USB Transceiver, ULPI Interface 19.2MHz Reference Clock ***NEW!***	25-VFBGA	3.99	3.04	2.66
USB3316B-GJ-TR	638-1061-2-ND	Hi-Speed USB Transceiver, ULPI Interface 19.2MHz Reference Clock ***NEW!***	25-VFBGA	4940.00/4,000		
USB3317-CP-TR	638-1062-1-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock ***NEW!***	24-QFN	3.36	2.56	2.24
USB3317-CP-TR	638-1062-2-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock ***NEW!***	24-QFN	4160.00/4,000		
USB3317-GJ-TR	638-1063-1-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock ***NEW!***	25-VFBGA	3.99	3.04	2.66
USB3317-GJ-TR	638-1063-2-ND	Hi-Speed USB Transceiver, ULPI Interface 26MHz Reference Clock ***NEW!***	25-VFBGA	4940.00/4,000		
USB3318-CP-TR	638-1064-1-ND	Hi-Speed USB Transceiver, ULPI Interface 13MHz Reference Clock ***NEW!***	24-QFN	3.36	2.56	2.24
USB3318-CP-TR	638-1064-2-ND	Hi-Speed USB Transceiver, ULPI Interface 13MHz Reference Clock ***NEW!***	24-QFN	4160.00/4,000		
USB3319-CP-TR	638-1065-1-ND	Hi-Speed USB Transceiver, ULPI Interface 13MHz Reference Clock ***NEW!***	24-QFN	3.36	2.56	2.24
USB3319-CP-TR	638-1065-2-ND	Hi-Speed USB Transceiver, ULPI Interface 13MHz Reference Clock ***NEW!***	24-QFN	4160.00/4,000		
USB3319-GJ-TR	638-1066-1-ND	Hi-Speed USB Transceiver, ULPI Interface 13MHz Reference Clock ***NEW!***	25-VFBGA	3.99	3.04	2.66
USB3319-GJ-TR	638-1066-2-ND	Hi-Speed USB Transceiver, ULPI Interface 13MHz Reference Clock ***NEW!***	25-VFBGA	4940.00/4,000		
EVB9118-MINI	638-1036-ND	Evaluation Board for LAN9118 Mini Card	—	156.00	—	—
EVB-2502	638-1037-ND	Evaluation Board for USB2502	—	104.00	—	—
EVB-EMC1043	638-1039-ND	Evaluation Board for EMC1043	—	117.00	—	—
EVB8700C	638-1040-ND	Evaluation Board for LAN8700 ***NEW!***	—	292.50	—	—
EVB-USB2512Q36-BAS	638-1041-ND	Eval. Board for USB2512/USB2512i ***NEW!***	—	58.50	—	—
EVB-USB2513Q36-BAS	638-1042-ND	Eval. Board for USB2513/USB2513i ***NEW!***	—	58.50	—	—
EVB-USB2514Q36-BAS	638-1043-ND	Eval. Board for USB2514/USB2514i ***NEW!***	—	58.50	—	—
EVB-USB2524	638-1044-ND	Evaluation Board for USB2524 ***NEW!***	—	110.50	—	—

National Semiconductor

A/D AND D/A CONVERTERS

A/D Converters

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADC08B200CIVS-ND	8-Bit, 200MSPS, ADC with Capture Buffer*	48-TQFP	23.40	21.84	20.28
ADC08D1020CIYB-ND	8-Bit, Dual 1.0GSPS or Single 2.0GSPS ADC*	128-LQFP	493.50	460.60	427.70
ADC08L060CIMT-ND	8-Bit, 60MSPS, A/D Converter*	24-TSSOP	5.99	4.74	3.80
ADC081C021CIMKCT-ND	I^{2}C Compatible, 8-Bit A/D Converter* ***NEW!***	6-TSOT	2.50	1.86	1.38
ADC081C021CIMKTR-ND	I^{2}C Compatible, 8-Bit A/D Converter* ***NEW!***	6-TSOT	1034.24/1,000		
ADC081C027CIMKCT-ND	I^{2}C Compatible, 8-Bit A/D Converter* ***NEW!***	6-TSOT	2.50	1.86	1.38
ADC081C027CIMKTR-ND	I^{2}C Compatible, 8-Bit A/D Converter* ***NEW!***	6-TSOT	1034.24/1,000		
ADC081S021CIMFCT-ND	1-Channel, 200ksps, 8-Bit A/D Converter*	SOT-23-6	2.28	1.70	1.26
ADC081S021CIMFTR-ND	1-Channel, 200ksps, 8-Bit A/D Converter*	SOT-23-6	943.36/1,000		
ADC081S021CISDCT-ND	1-Channel, 200ksps, 8-Bit A/D Converter*	6-LLP	2.29	1.71	1.26
ADC081S021CISDTR-ND	1-Channel, 200ksps, 8-Bit A/D Converter*	6-LLP	947.20/1,000		
ADC081S051CIMFCT-ND	1-Channel, 500ksps, 8-Bit A/D Converter	SOT-23-6	2.82	2.10	1.55
ADC081S051CIMFTR-ND	1-Channel, 500ksps, 8-Bit A/D Converter	SOT-23-6	1164.80/1,000		
ADC081S051CISDCT-ND	1-Channel, 500ksps, 8-Bit A/D Converter*	6-LLP	2.82	2.10	1.55
ADC081S051CISDTR-ND	1-Channel, 500ksps, 8-Bit A/D Converter*	6-LLP	1164.80/1,000		
ADC081S101CIMFCT-ND	8-Bit, 1MSPS A/D Converter	SOT-23-6	2.75	2.09	1.60
ADC081S101CIMFTR-ND	8-Bit, 1MSPS A/D Converter	SOT-23-6	1386.00/1,000		
ADC081S101CISDCT-ND	8-Bit, 1MSPS A/D Converter	6-LLP	2.75	2.09	1.60
ADC081S101CISDTR-ND	8-Bit, 1MSPS A/D Converter	6-LLP	1386.00/1,000		
ADC082S021CIMMCT-ND	2-Channel, 200ksps, 8-Bit A/D Converter*	8-MSOP	2.57	1.91	1.42
ADC082S021CIMMTR-ND	2-Channel, 200ksps, 8-Bit A/D Converter*	8-MSOP	1062.40/1,000		
ADC082S051CIMMCT-ND	2-Channel, 500ksps, 8-Bit A/D Converter*	8-MSOP	2.78	2.11	1.61
ADC082S051CIMMTR-ND	2-Channel, 500ksps, 8-Bit A/D Converter*	8-MSOP	1398.60/1,000		
ADC082S101CIMMCT-ND	2-Channel, 1MSPS, 8-Bit A/D Converter*	8-MSOP	3.45	2.63	2.01
ADC082S101CIMMTR-ND	2-Channel, 1MSPS, 8-Bit A/D Converter*	8-MSOP	1738.80/1,000		
ADC084S021CIMMCT-ND	4-Channel, 200ksps, 8-Bit A/D Converter*	10-MSOP	2.95	2.19	1.62
ADC084S021CIMMTR-ND	4-Channel, 200ksps, 8-Bit A/D Converter*	10-MSOP	1216.00/1,000		
ADC084S051CIMMCT-ND	4-Channel, 500ksps, 8-Bit A/D Converter*	10-MSOP	3.15	2.40	1.83
ADC084S051CIMMTR-ND	4-Channel, 500ksps, 8-Bit A/D Converter*	10-MSOP	1587.60/1,000		
ADC084S101CIMMCT-ND	4-Channel, 1MSPS, 8-Bit A/D Converter*	10-MSOP	3.95	3.01	2.30
ADC084S101CIMMTR-ND	4-Channel, 1MSPS, 8-Bit A/D Converter*	10-MSOP	1990.80/1,000		
ADC088S022CIMT-ND	8-Channel, 50ksps to 200ksps, 8-Bit ADC*	16-TSSOP	3.13	2.38	1.82
ADC088S052CIMT-ND	8-Channel, 200ksps to 500ksps, 8-Bit ADC*	16-TSSOP	3.85	2.93	2.24
ADC088S102CIMT-ND	8-Channel, 500ksps to 1MSPS, 8-Bit ADC*	16-TSSOP	4.75	3.61	2.76
ADC10D020CIVS-ND	Dual 10-Bit, 20MSPS, 150mW A/D Converter*	48-TQFP	9.47	7.49	6.00
ADC10D040CIVS-ND	Dual 10-Bit, 40MSPS, 267mW A/D Converter*	48-TQFP	10.82	9.27	8.22
ADC11DL066CIVS-ND	Dual 11-Bit, 66MSPS, 450MHz Bandwidth ADC*	64-TQFP	17.10	15.96	14.82
ADC11L066CIVY-ND	Dual 11-Bit, 66MSPS, 450MHz Bandwidth ADC*	32-LQFP	24.30	22.68	21.06
ADC12C080CISQECT-ND	12-Bit, 80MSPS, A/D Converter*	32-LLP	27.15	25.34	23.53
ADC12C080CISQETR-ND	12-Bit, 80MSPS, A/D Converter*	32-LLP	5746.75/250		
ADC12C105CISQECT-ND	12-Bit, 105MSPS, A/D Converter*	32-LLP	34.20	31.92	29.64
ADC12C105CISQETR-ND	12-Bit, 105MSPS, A/D Converter*	32-LLP	7239.00/250		
ADC12C170CISQCT-ND	12-Bit, 170MSPS, 1.1GHz Bandwidth ADC*	48-LLP	63.00	58.80	54.60
ADC12C170CISQTR-ND	12-Bit, 170MSPS, 1.1GHz Bandwidth ADC*	48-LLP	13335.00/250		
ADC12D040CIVS-ND	Dual 12-Bit, 40MSPS, A/D Converter*	64-TQFP	18.60	17.36	16.12
ADC12DL040CIVS-ND	Dual 12-Bit, 40MSPS, 3V A/D Converter*	64-TQFP	21.45	20.02	18.59
ADC12DL065CIVS-ND	Dual 12-Bit, 65MSPS, 3.3V 360mW ADC*	64-TQFP	24.30	22.68	21.06
ADC12DL066CIVS-ND	Dual 12-Bit, 66MSPS, 450MHz Input Bandwidth ADC*	64-TQFP	27.15	25.34	23.53
ADC12DS105CISQCT-ND	Dual 12-Bit, 105MSPS A/D Converter* ***NEW!***	60-LLP	49.95	46.62	43.29
ADC12DS105CISQTR-ND	Dual 12-Bit, 105MSPS A/D Converter* ***NEW!***	60-LLP	10572.75/250		
ADC12L063CIVY-ND	12-Bit, 62MSPS, 354mW A/D Converter with Internal Sample and Hold	32-LQFP	22.95	21.42	19.89
ADC12L066CIVY-ND	12-Bit, 66MSPS, 450MHz Bandwidth A/D Converter with Internal Sample and Hold	32-LQFP	24.45	22.82	21.19
ADC12L080CIVY-ND	12-Bit, 80MSPS, 450MHz Bandwidth A/D Converter	32-LQFP	24.90	23.24	21.58
ADC14C080CISQECT-ND	14-Bit, 80MSPS, A/D Converter*	32-LLP	47.10	43.96	40.82
ADC14C080CISQETR-ND	14-Bit, 80MSPS, A/D Converter*	32-LLP	9969.50/250		
ADC14C105CISQECT-ND	14-Bit, 105MSPS, A/D Converter*	32-LLP	58.50	54.60	50.70
ADC14C105CISQETR-ND	14-Bit, 105MSPS, A/D Converter*	32-LLP	12382.50/250		
ADC14DS080CISQCT-ND	Dual 14-Bit, 80MSPS, A/D Converter* ***NEW!***	60-LLP	51.30	47.88	44.46
ADC14DS080CISQTR-ND	Dual 14-Bit, 80MSPS, A/D Converter* ***NEW!***	60-LLP	10858.50/250		
ADC14L020CIVY-ND	14-Bit, 20MSPS, 150mW A/D Converter*	32-LQFP	17.10	15.96	14.82
ADC14L040CIVY-ND	14-Bit, 40MSPS, 235mW A/D Converter*	32-LQFP	21.75	20.30	18.85
ADC14V155CISQCT-ND	14-Bit, 155MSPS, 1.1GHz Bandwidth ADC*	48-LLP	122.25	114.10	105.95
ADC14V155CISQTR-ND	14-Bit, 155MSPS, 1.1GHz Bandwidth ADC*	48-LLP	25876.25/250		
ADC78H89CIMT-ND	12-Bit, 7-Channel, 500ksps, A/D Converter*	16-TSSOP	4.53	3.44	2.63
ADC78H90CIMT-ND	12-Bit, 8-Channel, 500ksps, A/D Converter*	16-TSSOP	5.40	4.27	3.42
ADC101C021CIMKCT-ND	I^{2}C Compatible, 10-Bit A/D Converter* ***NEW!***	6-TSOT	2.95	2.19	1.62
ADC101C021CIMKTR-ND	I^{2}C Compatible, 10-Bit A/D Converter* ***NEW!***	6-TSOT	1216.00/1,000		
ADC101C027CIMKCT-ND	I^{2}C Compatible, 10-Bit A/D Converter* ***NEW!***	6-TSOT	2.95	2.19	1.62
ADC101C027CIMKTR-ND	I^{2}C Compatible, 10-Bit A/D Converter* ***NEW!***	6-TSOT	1216.00/1,000		
ADC101S021CIMFCT-ND	1-Channel, 200ksps, 10-Bit A/D Converter*	SOT-23-6	2.76	2.05	1.52
ADC101S021CIMFTR-ND	1-Channel, 200ksps, 10-Bit A/D Converter*	SOT-23-6	1139.20/1,000		
ADC101S021CISDCT-ND	1-Channel, 200ksps, 10-Bit A/D Converter*	6-LLP	2.76	2.05	1.52
ADC101S021CISDTR-ND	1-Channel, 200ksps, 10-Bit A/D Converter*	6-LLP	1139.20/1,000		
ADC101S051CIMFCT-ND	1-Channel, 500ksps, 10-Bit A/D Converter*	SOT-23-6	2.80	2.13	1.63
ADC101S051CIMFTR-ND	1-Channel, 500ksps, 10-Bit A/D Converter*	SOT-23-6	1411.20/1,000		
ADC101S051CISDCT-ND	1-Channel, 500ksps, 10-Bit A/D Converter*	6-LLP	2.80	2.13	1.63
ADC101S051CISDTR-ND	1-Channel, 500ksps, 10-Bit A/D Converter*	6-LLP	1411.20/1,000		
ADC101S101CIMFCT-ND	10-Bit, 1MSPS, A/D Converter	SOT-23-6	3.38	2.57	1.96
ADC101S101CIMFTR-ND	10-Bit, 1MSPS, A/D Converter	SOT-23-6	1701.00/1,000		
ADC101S101CISDCT-ND	10-Bit, 1MSPS, A/D Converter*	6-LLP	3.38	2.57	1.96
ADC101S101CISDTR-ND	10-Bit, 1MSPS, A/D Converter*	6-LLP	1701.00/1,000		
ADC104S021CIMMCT-ND	10-Bit, 200ksps, 4-Channel A/D Converter*	10-MSOP	3.35	2.55	1.95
ADC104S021CIMMTR-ND	10-Bit, 200ksps, 4-Channel A/D Converter*	10-MSOP	1688.40/1,000		
ADC104S051CIMMCT-ND	10-Bit, 500ksps, 4-Channel A/D Converter	10-MSOP	4.30	3.27	2.50
ADC104S051CIMMTR-ND	10-Bit, 500ksps, 4-Channel A/D Converter	10-MSOP	2167.20/1,000		
ADC104S101CIMMCT-ND	10-Bit, 1MSPS, 4-Channel A/D Converter	10-MSOP	5.43	4.13	3.15
ADC104S101CIMMTR-ND	10-Bit, 1MSPS, 4-Channel A/D Converter	10-MSOP	2734.20/1,000		
ADC108S022CIMT-ND	8-Channel, 50ksps to 200ksps, 10-Bit ADC*	16-TSSOP	4.18	3.18	2.43

** RoHS Compliant*

(Continued)

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A/D AND D/A CONVERTERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADC108S052CIMT-ND	8-Channel, 200ksps to 500ksps, 10-Bit ADC*	16-TSSOP	5.18	3.94	3.01
ADC108S102CIMT-ND	8-Channel, 500ksps to 1MSPS, 10-Bit ADC*	16-TSSOP	5.38	4.25	3.41
ADC121S021CIMFCT-ND	1-Channel, 200ksps, 12-Bit A/D Converter*	SOT-23-6	2.78	2.11	1.61
ADC121S021CIMFTR-ND	1-Channel, 200ksps, 12-Bit A/D Converter*	SOT-23-6	1398.60/1,000		
ADC121S021CISDCT-ND	1-Channel, 200ksps, 12-Bit A/D Converter*	6-LLP	2.78	2.11	1.61
ADC121S021CISDTR-ND	1-Channel, 200ksps, 12-Bit A/D Converter*	6-LLP	1398.60/1,000		
ADC121S051CIMFCT-ND	1-Channel, 500ksps, 12-Bit A/D Converter*	SOT-23-6	3.60	2.74	2.09
ADC121S051CIMFTR-ND	1-Channel, 500ksps, 12-Bit A/D Converter*	SOT-23-6	1814.40/1,000		
ADC121S051CISDCT-ND	1-Channel, 500ksps, 12-Bit A/D Converter*	6-LLP	3.60	2.74	2.09
ADC121S051CISDTR-ND	1-Channel, 500ksps, 12-Bit A/D Converter*	6-LLP	1814.40/1,000		
ADC121S101CIMFCT-ND	1-Channel, 1MSPS, 12-Bit A/D Converter*	SOT-23-6	4.40	3.35	2.56
ADC121S101CIMFTR-ND	1-Channel, 1MSPS, 12-Bit A/D Converter*	SOT-23-6	2217.60/1,000		
ADC121S101CISDCT-ND	1-Channel, 1MSPS, 12-Bit A/D Converter*	6-LLP	4.40	3.35	2.56
ADC121S101CISDTR-ND	1-Channel, 1MSPS, 12-Bit A/D Converter*	6-LLP	2217.60/1,000		
ADC121S625CIMMCT-ND	12-Bit, 50ksps to 200ksps A/D Converter*	8-MSOP	4.03	3.06	2.34
ADC121S625CIMMTR-ND	12-Bit, 50ksps to 200ksps A/D Converter*	8-MSOP	2028.60/1,000		
ADC121S655CIMMCT-ND	12-Bit, 200ksps to 500ksps, Diff. In, MPU ADC*	8-MSOP	4.85	3.69	2.82
ADC121S655CIMMTR-ND	12-Bit, 200ksps to 500ksps, Diff. In, MPU ADC*	8-MSOP	2444.40/1,000		
ADC122S021CIMMCT-ND	12-Bit, 200ksps, 2-Channel A/D Converter	8-MSOP	3.70	2.82	2.15
ADC122S021CIMMTR-ND	12-Bit, 200ksps, 2-Channel A/D Converter	8-MSOP	1864.80/1,000		
ADC122S101CIMMCT-ND	12-Bit, 1MSPS, 2-Channel A/D Converter	8-MSOP	5.80	4.41	3.37
ADC122S101CIMMTR-ND	12-Bit, 1MSPS, 2-Channel A/D Converter	8-MSOP	2923.20/1,000		
ADC122S625CIMMCT-ND	Dual 12-Bit, 50ksps to 200ksps, Simultaneous Sampling A/D Converter* ***NEW!***	10-MSOP	5.40	4.27	3.42
ADC122S625CIMMTR-ND	Dual 12-Bit, 50ksps to 200ksps, Simultaneous Sampling A/D Converter* ***NEW!***	10-MSOP	3186.80/1,000		
ADC122S655CIMMCT-ND	Dual 12-Bit, 200ksps to 500ksps, Simultaneous Sampling A/D Converter* ***NEW!***	10-MSOP	5.86	4.64	3.72
ADC122S655CIMMTR-ND	Dual 12-Bit, 200ksps to 500ksps, Simultaneous Sampling A/D Converter* ***NEW!***	10-MSOP	3459.60/1,000		
ADC122S706CIMT-ND	Dual 12-Bit, 500ksps to 1MSPS, Simultaneous Sampling A/D Converter*	14-TSSOP	6.87	5.43	4.35
ADC124S021CIMMCT-ND	12-Bit, 200ksps, 4-Channel A/D Converter	10-MSOP	4.28	3.25	2.48
ADC124S021CIMMTR-ND	12-Bit, 200ksps, 4-Channel A/D Converter	10-MSOP	2154.60/1,000		
ADC124S051CIMMCT-ND	12-Bit, 500ksps, 4-Channel A/D Converter	10-MSOP	5.40	4.11	3.14
ADC124S051CIMMTR-ND	12-Bit, 500ksps, 4-Channel A/D Converter	10-MSOP	2721.60/1,000		
ADC124S101CIMMCT-ND	12-Bit, 1MSPS, 4-Channel A/D Converter	10-MSOP	5.50	4.35	3.49
ADC124S101CIMMTR-ND	12-Bit, 1MSPS, 4-Channel A/D Converter	10-MSOP	3248.80/1,000		
ADC128S022CIMT-ND	8-Channel, 50ksps to 200ksps, 12-Bit ADC*	16-TSSOP	4.98	3.79	2.89
ADC128S052CIMT-ND	8-Channel, 200ksps to 500ksps, 12-Bit ADC*	16-TSSOP	6.18	4.70	3.59
ADC128S102CIMT-ND	8-Channel, 500ksps to 1MSPS, 12-Bit ADC*	16-TSSOP	6.34	5.02	4.02
ADC0801LCN-ND	8-Bit, µP Compatible A/D Converters, 1/4 LSB*	20-Dip	9.61	8.24	7.31
ADC0802LCN-ND	8-Bit, µP Compatible A/D Converters, 1/2 LSB*	20-Dip	6.24	4.94	3.96
ADC0802LCWM-ND	8-Bit, Compatible A/D Converter, 1/2 LSB*	20-SOIC	6.09	4.82	3.86
ADC0803LCN-ND	8-Bit, A/D Converter, 1/2 LSB*	20-Dip	4.35	3.31	2.53
ADC0804LCN-ND	8-Bit, A/D Converter, 1 LSB*	20-Dip	3.05	2.32	1.77
ADC0804LCWM-ND	8-Bit, A/D Converter, 1 LSB*	20-SOIC	2.50	1.90	1.45
ADC0805LCN-ND	8-Bit, A/D Converter, 1 LSB	20-Dip	4.90	3.73	2.85
ADC0808CCN-ND	8-Bit, µP Compatible ADC with 8-Channel Mux., 1/2 LSB*	28-Dip	5.40	4.27	3.42
ADC0808CCV-ND	8-Bit, A/D Converter with 8-Channel Multiplexer, 1/2 LSB*	28-PLCC	5.93	4.51	3.44
ADC0809CCN-ND	8-Bit, A/D Converter with 8-Channel Multiplexer, 1 LSB*	28-Dip	4.20	3.20	2.44
ADC0809CCV-ND	8-Bit, A/D Converter with 8-Channel Multiplexer, 1 LSB*	28-PLCC	6.05	4.60	3.51
ADC0816CCN-ND	8-Bit, A/D Converter with 16-Channel Multiplexer, 1/2 LSB*	40-Dip	13.00	11.15	9.89
ADC0817CCN-ND	8-Bit, A/D Converter with 16-Channel Multiplexer, 1/2 LSB*	40-Dip	9.11	7.21	5.78
ADC0820BCWM-ND	8-Bit, A/D Converter, 1/2 LSB*	20-SOIC	5.85	4.45	3.40
ADC0820CCN-ND	8-Bit, High Speed MPU Compatible A/D Converter, 1 LSB*	20-Dip	4.00	3.04	2.32
ADC0820CCWM-ND	8-Bit, High Speed A/D Converter, 1 LSB*	20-SOIC	3.78	2.87	2.19
ADC0831CCN-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options*	8-Dip	2.78	2.11	1.61
ADC0831CCWM-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options*	14-SOIC	2.73	2.08	1.59
ADC0832CCWM-ND	8-Bit, Serial I/O ADC with Multiplex Options, 2-Channel*	14-SOIC	2.75	2.09	1.60
ADC0832CIWM-ND	8-Bit, Serial I/O ADC with Multiplex Options, 2-Channel	14-SOIC	2.78	2.11	1.61
ADC0834BCN-ND	8-Bit, Serial I/O ADC with Multiplex Options, 4-Channel*	14-Dip	3.40	2.59	1.98
ADC0834CCWM-ND	8-Bit, Serial I/O ADC with Multiplex Options, 4-Channel*	14-SOIC	2.98	2.27	1.73
ADC0838CCN-ND	8-Bit, Serial I/O ADC with Multiplex Options, 8-Channel*	20-Dip	2.70	2.06	1.57
ADC0838CCWM-ND	8-Bit, Serial I/O ADC with Multiplex Options, 8-Channel*	20-SOIC	2.85	2.17	1.66
ADC0844CCN-ND	8-Bit, A/D Converter, MPU Compatible 4-Channel*	20-Dip	5.23	3.98	3.04
ADC0848BCV-ND	8-Bit, µP Compatible ADC with Mux. Options, 1/2 LSB*	28-PLCC	9.05	7.16	5.74
ADC0848BCN-ND	8-Bit, µP Compatible ADC with Mux. Options, 1/2 LSB*	24-Dip	6.05	4.79	3.84
ADC0848CCN-ND	8-Bit, µP Compatible ADC with Mux. Options, 1 LSB*	24-Dip	5.78	4.39	3.35
ADC0848CCV-ND	8-Bit, µP Compatible ADC with Mux. Options, 1 LSB*	28-PLCC	5.40	4.27	3.42
ADC1173CIMTC-ND	8-Bit, 3V, 15MSPS, A/D Converter*	24-TSSOP	2.98	2.27	1.73
ADC1175-50CIMT-ND	8-Bit, 50MSPS, A/D Converter	24-SSOP	4.68	3.56	2.72
ADC08060CIMT-ND	8-Bit, 20-60MSPS, 1.3mW/MSPS A/D Converter*	24-TSSOP	4.05	3.08	2.35
ADC08060CIMTXCT-ND	8-Bit, 20-60MSPS, 1.3mW/MSPS A/D Converter*	24-TSSOP	4.05	3.08	2.35
ADC08060CIMTXTR-ND	8-Bit, 20-60MSPS, 1.3mW/MSPS A/D Converter*	24-TSSOP	5103.00/2,500		
ADC08100CIMTC-ND	8-Bit, A/D Converter, 100MSPS, 1.3mW*	24-TSSOP	8.63	6.83	5.47
ADC08200CIMT-ND	8-Bit, 20-200MSPS, 1.05mW/MSPS A/D Converter*	24-TSSOP	12.76	10.94	9.70
ADC08351CILQCT-ND	8-Bit, A/D Converter	24-LLP	4.78	3.63	2.77
ADC08351CILQTR-ND	8-Bit, A/D Converter	24-LLP	2406.60/1,000		
ADC08351CIMTC-ND	8-Bit, A/D Converter	20-TSSOP	4.55	3.46	2.64
ADC08831IM-ND	8-Bit, Serial In/Out A/D Converter, 1-Input*	8-SOIC	2.51	1.87	1.38
ADC08831IMMCT-ND	8-Bit, Serial In/Out A/D Converter, 1-Input	8-MSOP	2.51	1.87	1.38
ADC08831IMMTR-ND	8-Bit, Serial In/Out A/D Converter, 1-Input	8-MSOP	1036.80/1,000		
ADC08831IN-ND	8-Bit, Serial In/Out A/D Converter, 1-Input	8-Dip	2.51	1.87	1.38
ADC08831IWM-ND	8-Bit, Serial In/Out A/D Converter, 1-Input	14-SOIC	2.51	1.87	1.38
ADC08832IM-ND	8-Bit, Serial In/Out A/D Converter, 2-Input*	8-SOIC	2.51	1.87	1.38
ADC08832IMMCT-ND	8-Bit, Serial In/Out A/D Converter, 2-Input	8-MSOP	2.51	1.87	1.38
ADC08832IMMTR-ND	8-Bit, Serial In/Out A/D Converter, 2-Input	8-MSOP	1036.80/1,000		
ADC08832IN-ND	8-Bit, Serial In/Out A/D Converter, 2-Input	8-Dip	2.51	1.87	1.38
ADC08832IWM-ND	8-Bit, Serial In/Out A/D Converter	14-SOIC	2.51	1.87	1.38
ADC083000CIYB-ND	8 Bit, 3 GSPS, High Performance, LP A/D Converter*	128-LQFP	978.00	—	—
ADC10030CIVT-ND	10-Bit, A/D Converter	32-LQFP	7.64	6.05	4.85
ADC10040CIMT-ND	10-Bit, A/D Converter	28-TSSOP	7.48	5.91	4.74
ADC10065CIMT-ND	10-Bit, A/D Converter*	28-TSSOP	8.32	6.58	5.27
ADC10080CIMT-ND	10-Bit, A/D Converter*	28-TSSOP	8.99	7.11	5.70
ADC10158CIN-ND	10-Bit, Plus Sign 4µS ADC w/4 or 8-Channel Mux, Track*	28-Dip	5.54	4.39	3.52
ADC10158CIWM-ND	10-Bit, Plus Sign 4µS ADC w/4 or 8-Channel Mux, Track	28-SOIC	5.82	4.60	3.69
ADC10321CIVT-ND	10-Bit, A/D Converter*	32-LQFP	5.90	4.67	3.74
ADC10464CIWM-ND	10-Bit, 600nS A/D Converter with Input Mux*	28-SOIC	6.36	5.03	4.03
ADC10664CIWM-ND	10-Bit, 360nS A/D Converter with Input Mux*	28-SOIC	6.18	4.70	3.59
ADC10738CIWM-ND	10-Bit, Serial In/Out A/D Converter*	24-SOIC	5.10	3.88	2.96
ADC12010CIVY-ND	12-Bit, 10MSPS, A/D Converter*	32-LQFP	9.73	8.34	7.40
ADC12020CIVY-ND	12-Bit, 20MSPS, A/D Converter	32-LQFP	14.25	12.21	10.83
ADC12034CIN-ND	12-Bit, A/D Converter*	24-Dip	9.83	7.77	6.23
ADC12038CIWM-ND	12-Bit, A/D Converter*	28-SOIC	6.51	5.15	4.13
ADC12040CIVY-ND	12-Bit, 40MSPS, A/D Converter*	32-LQFP	14.96	12.83	11.38
ADC12081CIVT-ND	12-Bit, 5MHz Self-Calibrating A/D Converter*	32-LQFP	9.98	8.55	7.59
ADC12130CIN-ND	12-Bit, Self-Calibrating A/D Converter Plus Sign Serial I/O	16-Dip	6.78	5.37	4.30
ADC12138CIN-ND	12-Bit, Self-Calibrating A/D Converter Plus Sign Serial I/O*	28-Dip	6.62	5.23	4.19
ADC12138CIWM-ND	12-Bit, Self-Calibrating A/D Converter Plus Sign Serial I/O*	28-SOIC	6.62	5.23	4.19
ADC14155CISQCT-ND	14-Bit, 155MSPS, 1.1GHz Bandwidth ADC*	48-LLP	122.25	114.10	105.95
ADC14155CISQTR-ND	14-Bit, 155MSPS, 1.1GHz Bandwidth ADC*	48-LLP	25876.25/250		
ADCS7476AIMFCT-ND	12-Bit, 1MSPS, A/D Converter*	SOT-23-6	4.63	3.52	2.69
ADCS7476AIMFTR-ND	12-Bit, 1MSPS, A/D Converter*	SOT-23-6	2312.50/1,000		
ADCS7477AIMFCT-ND	10-Bit, 1MSPS, A/D Converter*	SOT-23-6	3.63	2.76	2.11
ADCS7477AIMFTR-ND	10-Bit, 1MSPS, A/D Converter*	SOT-23-6	1827.00/1,000		
ADCS7478AIMFCT-ND	8-Bit, 1MSPS, A/D Converter	SOT-23-6	3.00	2.28	1.74
ADCS7478AIMFTR-ND	8-Bit, 1MSPS, A/D Converter	SOT-23-6	1512.00/1,000		
ADCS9888CVH-140-ND	140MSPS Video Analog Front End	128-PQFP	14.14	12.12	10.75
ADCS9888CVH-170-ND	170MSPS Video Analog Front End*	128-PQFP	16.20	15.12	14.04
ADCS9888CVH-205-ND	205MSPS Video Analog Front End	128-PQFP	22.65	21.14	19.63
ADCV08832CIM-ND	Low Voltage, 8-Bit Serial In/Out A/D Converter*	8-SOIC	3.05	2.32	1.77
CLC5957MTD-ND	12-Bit, 70MSPS Broadband Mono AD Converter*	48-TSSOP	27.30	25.48	23.66

D/A Converters

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAC081S101CIMKCT-ND	8-Bit D/A Converter with Rail-to-Rail Output*	6-TSOT	2.36	1.75	1.30
DAC081S101CIMKTR-ND	8-Bit D/A Converter with Rail-to-Rail Output*	6-TSOT	972.80/1,000		
DAC081S101CIMMCT-ND	8-Bit D/A Converter with Rail-to-Rail Output*	8-MSOP	2.36	1.75	1.30
DAC081S101CIMMTR-ND	8-Bit D/A Converter with Rail-to-Rail Output*	8-MSOP	972.80/1,000		
DAC082S085CIMMCT-ND	8-Bit Micropower Dual DAC with Rail-to-Rail Output*	10-MSOP	2.85	2.17	1.66
DAC082S085CIMMTR-ND	8-Bit Micropower Dual DAC with Rail-to-Rail Output*	10-MSOP	1436.40/1,000		
DAC084S085CIMMCT-ND	8-Bit Micropower Quad DAC with Rail-to-Rail Output*	10-MSOP	3.58	2.72	2.08
DAC084S085CIMMTR-ND	8-Bit Micropower Quad DAC with Rail-to-Rail Output*	10-MSOP	1801.80/1,000		
DAC088S085CIMT-ND	8-Bit Micropower Octal DAC with R/R Output*	16-TSSOP	5.25	4.15	3.33
DAC101S101CIMKCT-ND	10-Bit D/A Converter with Rail-to-Rail Output*	6-TSOT	3.03	2.30	1.76
DAC101S101CIMKTR-ND	10-Bit D/A Converter with Rail-to-Rail Output*	6-TSOT	1524.60/1,000		
DAC101S101CIMMCT-ND	10-Bit D/A Converter with Rail-to-Rail Output*	8-MSOP	3.03	2.30	1.76
DAC101S101CIMMTR-ND	10-Bit D/A Converter with Rail-to-Rail Output*	8-MSOP	1524.60/1,000		
DAC102S085CIMMCT-ND	10-Bit Micropower Dual DAC with Rail-to-Rail Output*	10-MSOP	4.28	3.25	2.48
DAC102S085CIMMTR-ND	10-Bit Micropower Dual DAC with Rail-to-Rail Output*	10-MSOP	2154.60/1,000		
DAC104S085CIMMCT-ND	10-Bit Micropower Quad DAC with Rail-to-Rail Output*	10-MSOP	5.59	4.42	3.54
DAC104S085CIMMTR-ND	10-Bit Micropower Quad DAC with Rail-to-Rail Output*	10-MSOP	3298.40/1,000		
DAC108S085CIMT-ND	10-Bit Micropower Octal DAC with R/R Output*	16-TSSOP	7.60	6.01	4.82
DAC121S101CIMKCT-ND	12-Bit D/A Converter with Rail-to-Rail Output*	6-TSOT	3.45	2.63	2.01
DAC121S101CIMKTR-ND	12-Bit D/A Converter with Rail-to-Rail Output*	6-TSOT	1738.80/1,000		
DAC121S101CIMMCT-ND	12-Bit D/A Converter with Rail-to-Rail Output*	8-MSOP	3.45	2.63	2.01
DAC121S101CIMMTR-ND	12-Bit D/A Converter with Rail-to-Rail Output*	8-MSOP	1738.80/1,000		
DAC122S085CIMMCT-ND	12-Bit Micropower Dual DAC with Rail-to-Rail Output*	10-MSOP	5.10	3.88	2.96
DAC122S085CIMMTR-ND	12-Bit Micropower Dual DAC with Rail-to-Rail Output*	10-MSOP	2570.40/1,000		
DAC124S085CIMMCT-ND	12-Bit Micropower Quad DAC with Rail-to-Rail Output*	10-MSOP	7.18	5.68	4.55
DAC124S085CIMMTR-ND	12-Bit Micropower Quad DAC with Rail-to-Rail Output*	10-MSOP	4240.80/1,000		
DAC0800LCM-ND	8-Bit, D/A Converter*	16-SOIC	1.65	1.21	.88
DAC0800LCMXTR-ND	8-Bit, D/A Converter	16-SOIC	1402.50/2,500		
DAC0800LCN-ND	8-Bit, D/A Converter 0.19% Linearity*	16-Dip	1.63	1.22	.90
DAC0802LCM-ND	8-Bit, D/A Converter	16-SOIC	1.76	1.30	.94
DAC0802LCN-ND	8-Bit, D/A Converter*	16-Dip	1.73	1.29	.95
DAC0808LCM-ND	8-Bit, D/A Converter*	16-SOIC	1.64	1.22	.91
DAC0808LCN-ND	8-Bit, D/A Converter 0.19% Linearity*	16-Dip	1.74	1.30	.96
DAC0830LCN-ND	8-Bit, µP Compatible Double Buffered D/A Converter*	20-Dip	5.90	4.67	3.74
DAC0832LCN-ND	8-Bit, µP Compatible D/A Converter 0.20% Linearity*	20-Dip	3.20	2.44	1.86
DAC0832LCWM-ND	8-Bit, µP Compatible D/A Converter*	20-SOIC	3.13	2.38	1.82
DAC14135MT-ND	14-Bit, 135MSPS D/A Converter*	48-TSSOP	9.11	7.21	5.78

DATA COMMUNICATIONS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CP3BT10K38-ND	24MHz, RISC with 256K Flash, Bluetooth (LLC), USB1.1	48-CSP	16.47	14.12	12.52
CP3BT13K38-ND	24MHz, RISC with 256K Flash, Bluetooth (LLC), CAN	48-CSP	16.80	15.68	14.56
CP3UB17K38CT-ND	Reprogrammable Connectivity Processor with USB Interface	48-CSP	17.40	16.24	15.08
CP3UB17K38TR-ND	Reprogrammable Connectivity Processor with USB Interface	48-CSP	3683.00/250		

INTERFACE CHIPS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DP83815DUJB-ND	Integrated PCI Ethernet Media Access Controller*	160-LBGA	16.36	14.03	12.44
DP83815DVNG-ND	10/100Mb, Integrated PCI Ethernet Media Access Controller and Physical Layer*	144-LQFP	12.29	10.53	9.34
DP83816AVNG-ND	10/100Mb/s PCI Ethernet Media Access Controller (MacPHYTER-II™)*	144-LQFP	10.40	8.91	7.91
DP83843BVJE-ND	PHYTER® with Integrated PMD Sublayers*	80-PQFP	16.05	14.98	13.91
DP83846AVHG-ND	DsPHYTER® Single 10/100 Ethernet Transceiver*	80-LQFP	10.04	7.94	6.36
DP83847ALQA56A-ND	DsPHYTER II® Single 10/100 Ethernet Transceiver*	56-LLP	5.48	4.34	3.48
DP83848CVV-ND	PHYTER® Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver*	48-LQFP	5.71	4.52	3.62
DP83848IVV-ND	PHYTER® Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver*	48-LQFP	6.57	5.20	4.17
DP83848JSQCT-ND	PHYTER® Mini LS Commercial Temperature Single Port 10/100 Ethernet Transceiver*	40-LLP	3.60	2.74	2.09
DP83848JSQTR-ND	PHYTER® Mini LS Commercial Temperature Single Port 10/100 Ethernet Transceiver*	40-LLP	478.80/250		
DP83848KSQCT-ND	PHYTER® Mini LS Industrial Temperature Single Port 10/100 Ethernet Transceiver*	40-LLP	4.80	3.65	2.79
DP83848KSQTR-ND	PHYTER® Mini LS Industrial Temperature Single Port 10/100 Ethernet Transceiver*	40-LLP	638.40/250		
DP83848VYB-ND	PHYTER® Extended Temp. Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver*	48-LQFP	22.20	20.72	19.24
DP83849CVS-ND	PHYTER® Dual Port 10/100 Mb/s Ethernet Physical Layer Transceiver*	80-TQFP	6.99	5.53	4.43
DP83849IDVS-ND	PHYTER® Dual Port 10/100 Mb/s Ethernet Physical Layer Transceiver*	80-TQFP	8.38	6.63	5.31
DP83849IFVS-ND	PHYTER® Dual Port 10/100 Mb/s Ethernet Physical Layer Transceiver*	80-TQFP	9.98	7.89	6.32

***RoHS Compliant**

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DP83865DVH-ND	10/100/1000 Ethernet Physical Layer (Gig PHYTER®V)*	128-PQFP	18.60	17.36	16.12
DP83902AV-ND	Serial Network Interface Controller for Twisted Pair*	84-PLCC	16.66	14.28	12.67
DS08MB200TSQCT-ND	Dual 800mbps 1:2/2:1 LVDS Mux/Buffer*	48-LLP	7.18	5.68	4.55
DS08MB200TSQTR-ND	Dual 800mbps 1:2/2:1 LVDS Mux/Buffer*	48-LLP	1085.85/250		
DS10BR150TSDCT-ND	1.0Gbps LVDS Buffer/Repeater*	8-LLP	2.98	2.27	1.73
DS10BR150TSDTR-ND	1.0Gbps LVDS Buffer/Repeater*	8-LLP	1499.40/1,000		
DS10BR254TSQCT-ND	1.5Gbps 1:4 LVDS Repeater* ***NEW!***	40-LLP	7.88	6.23	4.99
DS10BR254TSQTR-ND	1.5Gbps 1:4 LVDS Repeater* ***NEW!***	40-LLP	1190.63/250		
DS10CP152TMA-ND	1.5Gbps 2x2 LVDS Crosspoint Switch* ***NEW!***	16-SOIC	7.29	5.77	4.62
DS10CP154TSQCT-ND	1.5Gbps LVDS Crosspoint Switch*	40-LLP	6.77	6.32	5.87
DS10CP154TSQTR-ND	1.5Gbps LVDS Crosspoint Switch*	40-LLP	1431.93/250		
DS14C88M-ND	Quad CMOS Line Driver*	14-SOIC	1.71	1.28	.95
DS14C88MXTR-ND	Quad CMOS Line Driver*	14-SOIC	1728.13/2,500		
DS14C88N-ND	Quad CMOS Line Driver*	14-Dip	2.44	1.81	1.34
DS14C89AM-ND	Quad CMOS Line Receiver*	14-SOIC	1.71	1.28	.95
DS14C89AMXTR-ND	Quad CMOS Line Receiver	14-SOIC	1728.13/2,500		
DS14C89AN-ND	Quad CMOS Line Receiver*	14-Dip	2.44	1.81	1.34
DS14C232CM-ND	LP +5V, Power TIA/EIA-232 Dual Driver/Receiver*	16-SOIC	2.80	2.13	1.63
DS14C232CMXTR-ND	Low Power +5V, Power TIA/EIA-232 Dual Driver/Receiver	16-SOIC	3500.00/2,500		
DS14C232CN-ND	EIA232 Dual Driver/Receiver Low Power*	16-Dip	3.05	2.32	1.77
DS14C232TM-ND	EIA232 Dual Driver/Receiver Low Power*	16-SOIC	3.00	2.28	1.74
DS14C238WM-ND	Single Supply TIA/EIA-232 4x4 Driver/Receiver*	24-SOIC	6.78	5.37	4.30
DS14C238WMXTR-ND	Single Supply TIA/EIA-232 4x4 Driver/Receiver	24-SOIC	4005.20/1,000		
DS14C241WM-ND	Single Supply TIA/EIA-232 4x5 Driver/Receiver*	28-SOIC	6.24	4.94	3.96
DS14C335MSA-ND	3.3V, Supply TIA/EIA-232 3x5 Driver/Receiver*	28-SSOP	8.11	6.41	5.14
DS14C535MSA-ND	5V, Supply EIA/TIA-232 3x5 Driver/Receiver*	28-SSOP	6.66	5.27	4.22
DS15BR400TVS-ND	4-Channel LVDS Buffer/Repeater with Pre-Emphasis*	48-TQFP	7.77	6.15	4.93
DS15BR401TVS-ND	4-Channel LVDS Buffer/Repeater with Pre-Emphasis*	48-TQFP	7.77	6.15	4.93
DS15EA101SQCT-ND	0.15 to 1.5Gbps Adaptive Cable Equalizer with LOS Detection*	16-LLP	9.15	7.85	6.96
DS15EA101SQTR-ND	0.15 to 1.5Gbps Adaptive Cable Equalizer with LOS Detection*	16-LLP	6485.20/1,000		
DS15MB200TSQCT-ND	Dual 1.5Gbps 2:1/1:2 LVDS Mux/Buffer*	48-LLP	9.87	7.81	6.26
DS15MB200TSQTR-ND	Dual 1.5Gbps 2:1/1:2 LVDS Mux/Buffer*	48-LLP	1492.25/250		
DS16EV5110SQCT-ND	Video Equalizer for DVI, HDMI, and Cat5 Cables*	48-LLP	9.58	7.57	6.07
DS16EV5110SQTR-ND	Video Equalizer for DVI, HDMI, and Cat5 Cables*	48-LLP	1447.80/250		
DS25BR150TSDCT-ND	3.125Gbps LVDS Repeater with Pre-Emphasis*	8-LLP	5.10	3.88	2.96
DS25BR150TSDTR-ND	3.125Gbps LVDS Repeater with Pre-Emphasis*	8-LLP	2570.40/1,000		
DS25BR204TSQCT-ND	3.125Gbps 1:4 LVDS Repeater* ***NEW!***	40-LLP	12.06	10.34	9.17
DS25BR204TSQTR-ND	3.125Gbps 1:4 LVDS Repeater* ***NEW!***	40-LLP	2187.58/250		
DS25BR400TSQCT-ND	Quad 2.5Gbps Transceiver*	60-LLP	10.73	9.20	8.16
DS25BR400TSQTR-ND	Quad 2.5Gbps Transceiver*	60-LLP	1946.28/250		
DS25CP102TSQCT-ND	3.125Gbps 2x2 LVDS Crosspoint Switch with Transmit Pre-Emphasis and Receive Equalization*	16-LLP	9.07	7.77	6.89
DS25CP102TSQTR-ND	3.125Gbps 2x2 LVDS Crosspoint Switch with Transmit Pre-Emphasis and Receive Equalization*	16-LLP	6423.20/1,000		
DS25CP104TSQCT-ND	3.125Gbps 4x4 LVDS Crosspoint Switch with Transmit Pre-Emphasis and Receive Equalization*	40-LLP	14.54	12.47	11.06
DS25CP104TSQTR-ND	3.125Gbps 4x4 LVDS Crosspoint Switch with Transmit Pre-Emphasis and Receive Equalization*	40-LLP	2638.43/250		
DS25CP152TSQCT-ND	3.125Gbps LVDS 2x2 Crosspoint Switch* ***NEW!***	16-LLP	9.07	7.18	5.75
DS25CP152TSQTR-ND	3.125Gbps LVDS 2x2 Crosspoint Switch* ***NEW!***	16-LLP	5356.80/1,000		
DS25MB200TSQCT-ND	Dual 2.5Gbps 1:2 Mux/Buffer*	48-LLP	11.22	9.62	8.53
DS25MB200TSQTR-ND	Dual 2.5Gbps 1:2 Mux/Buffer*	48-LLP	2035.18/250		
DS26C31TM-ND	CMOS Quad Tri-State Differential Line Driver*	16-SOIC	1.80	1.32	.96
DS26C31TMXTR-ND	CMOS Quad Tri-State Differential Line Driver*	16-SOIC	1530.00/2,500		
DS26C31TN-ND	CMOS Quad RS-422 Line Driver*	16-Dip	2.17	1.61	1.19
DS26C32ATM-ND	CMOS Quad RS-422 Receiver*	16-SOIC	1.77	1.32	.97
DS26C32ATMXTR-ND	CMOS Quad RS-422 Receiver*	16-SOIC	1781.25/2,500		
DS26LS31CM-ND	Quad High Speed Differential Line Driver*	16-SOIC	1.72	1.27	.92
DS26LS31CMXTR-ND	Quad High Speed Differential Line Driver	16-SOIC	1463.06/2,500		
DS26LS31CN-ND	Quad High Speed Differential*	16-Dip	2.08	1.55	1.14
DS26LS32ACM-ND	Quad Differential Line Receiver*	16-SOIC	1.79	1.31	.96
DS26LS32ACMXTR-ND	Quad Differential Line Receiver	16-SOIC	1517.25/2,500		
DS26LS32ACN-ND	Quad Differential Line Receiver*	16-Dip	2.05	1.52	1.13
DS26LS32CM-ND	Quad Differential Line Receiver*	16-SOIC	1.54	1.13	.82
DS26LS32CN-ND	Quad Differential Line Receiver*	16-Dip	1.92	1.43	1.06
DS26LV31TM-ND	3V, Enhanced Quad CMOS Differential Line Driver*	16-SOIC	1.90	1.41	1.05
DS26LV32ATM-ND	3V, Enhanced Quad CMOS Differential Line Receiver*	16-SOIC	1.90	1.41	1.05
DS32EV400SQCT-ND	Programmable Quad Equalizer*	48-LLP	10.82	9.27	8.22
DS32EV400SQTR-ND	Programmable Quad Equalizer*	48-LLP	1962.15/250		
DS34C86TM-ND	Quad CMOS Differential Line Receiver*	16-SOIC	1.77	1.32	.97
DS34C86TMXTR-ND	Quad CMOS Differential Line Receiver	16-SOIC	1781.25/2,500		
DS34C86TN-ND	Quad CMOS Differential Line Receiver*	16-Dip	3.40	2.59	1.98
DS34C87TM-ND	CMOS Quad Tri-State Differential Line Driver*	16-SOIC	1.56	1.16	.86
DS34C87TMXTR-ND	CMOS Quad Tri-State Differential Line Driver*	16-SOIC	1568.75/2,500		
DS34LV86TM-ND	3V, Enhanced Quad CMOS Differential Line Receiver*	16-SOIC	2.57	1.91	1.42
DS34LV87TM-ND	Enhanced Quad CMOS Differential Line Driver*	16-SOIC	2.57	1.91	1.42
DS36C200M-ND	Dual High Speed Bi-Directional Differential Transceiver	14-SOIC	2.98	2.21	1.64
DS36C278M-ND	Low Power Multipoint EIA-RS-485 Transceiver*	8-SOIC	2.76	2.05	1.52
DS36C278TM-ND	Multipoint EIA Low Power Transceiver*	8-SOIC	2.82	2.10	1.55
DS36C279M-ND	Low Power EIA-RS-485 Transceiver with Sleep Mode*	8-SOIC	2.58	1.96	1.50
DS36C280M-ND	Slew Rate Controlled CMOS EIA-RS-485 Transceiver	8-SOIC	2.58	1.96	1.50
DS36F95M-ND	High Speed Multipoint RS485/422 Transceiver*	8-SOIC	3.68	2.80	2.14
DS38EP100SDCT-ND	1 to 5Gbps, Power Saver Equalizer for Backplanes/Cables*	6-LLP	3.10	2.36	1.80
DS38EP100SDTR-ND	1 to 5Gbps, Power Saver Equalizer for Backplanes/Cables*	6-LLP	1562.40/1,000		
DS40MB200SQCT-ND	Dual 4Gb/s 1:2 Mux/Buffer*	48-LLP	12.88	11.04	9.79
DS40MB200SQTR-ND	Dual 4Gb/s 1:2 Mux/Buffer*	48-LLP	2336.80/250		
DS42MB100TSQCT-ND	4.25Gb/s 1:2 Mux/Buffer*	36-LLP	9.89	8.48	7.52
DS42MB100TSQTR-ND	4.25Gb/s 1:2 Mux/Buffer*	36-LLP	1793.88/250		
DS64EV400SQCT-ND	Programmable Quad Equalizer*	48-LLP	22.80	21.28	19.76
DS64EV400SQTR-ND	Programmable Quad Equalizer*	48-LLP	4826.00/250		
DS80EP100SDCT-ND	5 to 12.5Gbps, Power Saver Equalizer for Backplanes/Cables*	6-LLP	2.98	2.27	1.73
DS80EP100SDTR-ND	5 to 12.5Gbps, Power Saver Equalizer for Backplanes/Cables*	6-LLP	1499.40/1,000		
DS89C21TM-ND	Differential CMOS Line Driver/Receiver Pair*	8-SOIC	1.61	1.20	.89
DS89C386TMEA-ND	12-Channel CMOS Differential Line Receiver*	48-SSOP	8.76	6.93	5.55
DS89C387TMEA-ND	12-Channel CMOS Differential Line Driver*	48-SSOP	8.76	6.93	5.55
DS90C031BTM-ND	LVDS Quad CMOS Differential Line Driver*	16-SOIC	2.73	2.08	1.59
DS90C031TM-ND	LVDS Quad CMOS Differential Line Driver*	16-SOIC	2.73	2.08	1.59
DS90C031TMXTR-ND	LVDS Quad CMOS Differential Line Driver	16-SOIC	3406.25/2,500		
DS90C032BTM-ND	LVDS Quad CMOS Differential Line Receiver*	16-SOIC	2.73	2.08	1.59
DS90C032TM-ND	LVDS Quad CMOS Differential Line Receiver*	16-SOIC	2.73	2.08	1.59
DS90C032TMXTR-ND	LVDS Quad CMOS Differential Line Receiver*	16-SOIC	3406.25/2,500		
DS90C124IVS-ND	5-35MHz DC-Balanced 24-Bit LVDS Serializer/Deserializer*	48-TQFP	9.98	8.55	7.59
DS90C241IVS-ND	5-35MHz DC-Balanced 24-Bit LVDS Serializer/Deserializer*	48-TQFP	9.98	8.55	7.59
DS90C383MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Transmitter*	56-TSSOP	6.26	4.95	3.97
DS90C385AMT-ND	+3.3V Prog. LVDS Transmitter 24-Bit Flat Panel Display Link, 85MHz*	56-TSSOP	4.75	3.61	2.76
DS90C387AVJD-ND	Dual Pixel LVDS Display Interface*	100-TQFP	9.83	7.77	6.23
DS90C387RVJD-ND	85MHz Dual 12-Bit LDI Transmitter (VGA/UXGA)*	100-TQFP	9.83	7.77	6.23
DS90C387VJD-ND	LVDS Dual Pixel Display Interface (LDI)-SVGA-OXGA*	100-TQFP	9.83	7.77	6.23
DS90C401M-ND	LVDS Dual Low Volt Differential Signaling Driver*	8-SOIC	2.50	1.90	1.45
DS90C402M-ND	LVDS Dual Low Volt Differential Signaling Receiver*	8-SOIC	2.50	1.90	1.45
DS90C2501SLBCT-ND	Transmitter for LVDS Display Interface	Laminate CSP	16.20	15.12	14.04
DS90C2501SLBTR-ND	Transmitter for LVDS Display Interface	Laminate CSP	6750.00/500		
DS90CF364MTD-ND	LVDS 3.3V, FPD Link 18-Bit, Receiver	48-TSSOP	5.85	4.45	3.40
DS90CF364AMTD-ND	LVDS 3.3V, FPD Link-65MHz, 18-Bit, Receiver	48-TSSOP	5.48	4.34	3.48
DS90CF366MTD-ND	LVDS 3.3V, FPD Link-85MHz, 18-Bit, Receiver	48-TSSOP	6.26	4.95	3.97
DS90CF383MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Receiver	56-TSSOP	6.26	4.95	3.97
DS90CF384AMTD-ND	LVDS 3.3V, FPD Link-65MHz, 24-Bit, Receiver*	56-TSSOP	5.99	4.74	3.80
DS90CF384MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Receiver*	56-TSSOP	5.36	4.24	3.40
DS90CF386MTD-ND	LVDS 3.3V, FPD Link-85MHz, 24-Bit, Receiver*	56-TSSOP	6.26	4.95	3.97
DS90CF386SLC-ND	3.3V LVDS Receiver, 24-Bit Flat Panel Display*	64-FBGA	7.14	5.65	4.53
DS90CF388AVJD-ND	LVDS Dual Pixel Display Interface/FPD-Link*	100-TQFP	9.83	7.77	6.23
DS90CF388VJD-ND	LVDS Dual Pixel Display Interface (LDI)-SVGA/QXGA*	100-TQFP	9.83	7.77	6.23
DS90CF561MTD-ND	LVDS 18-Bit, Color, FPD Link*	48-TSSOP	9.83	7.77	6.23
DS90CF562MTD-ND	LVDS 18-Bit, Color, FPD Link*	48-TSSOP	8.93	7.06	5.66
DS90CF563MTD-ND	LVDS 5V, FPD Link 18-Bit, Transmitter	48-TSSOP	9.83	7.77	6.23
DS90CF564MTD-ND	LVDS 5V, FPD Link 18-Bit, Receiver*	48-TSSOP	8.93	7.06	5.66
DS90CF584MTD-ND	LVDS 5V, FPD Link 24-Bit, Receiver*	56-TSSOP	8.93	7.06	5.66
DS90CP04TLQCT-ND	4x4 Low Power 2.5Gb/s LVDS Digital Cross-Point Switch	32-LLP	10.37	8.21	6.58
DS90CP04TLQTR-ND	4x4 Low Power 2.5Gb/s LVDS Digital Cross-Point Switch	32-LLP	1568.45/250		
DS90CP22M-8-ND	2x2 800mbps LVDS Crosspoint Switch	16-SOIC	5.83	4.43	3.38
DS90CP22MT-ND	2x2 800mbps LVDS Crosspoint Switch*	16-TSSOP	6.05	4.60	3.51
DS90CR213MTD-ND	21-Bit, Channel Link-66MHz, Transmitter*	48-TSSOP	9.00	7.71	6.84
DS90CR214MTD-ND	21-Bit, Channel Link-66MHz, Receiver*	48-TSSOP	9.00	7.71	6.84
DS90CR215MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz, Transmitter*	48-TSSOP	7.39	5.85	4.69
DS90CR216AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz, Receiver*	48-TSSOP	5.99	4.74	3.80
DS90CR216MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz, Receiver*	48-TSSOP	5.99	4.74	3.80
DS90CR217MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-85MHz*	48-TSSOP	7.98	6.31	5.06
DS90CR218AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-85MHz*	48-TSSOP	6.99	5.53	4.43
DS90CR218MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-75MHz*	48-TSSOP	8.93	7.06	5.66
DS90CR283MTD-ND	28-Bit, Channel Link-66MHz, Transmitter*	56-TSSOP	9.98	8.55	7.59
DS90CR284MTD-ND	28-Bit, Channel Link-66MHz, Receiver*	56-TSSOP	9.98	8.55	7.59
DS90CR285MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit, Channel Link-66MHz, Transmitter*	56-TSSOP	6.62	5.23	4.19
DS90CR286AMTD-ND	3.3V, Data Strobe LVDS Receiver 28-Bit Channel Link-66MHz*	56-TSSOP	6.26	4.95	3.97
DS90CR286MTD-ND	LVDS 3.3V, Data Strobe 28-Bit, Channel Link-66MHz*	56-TSSOP	6.26	4.95	3.97
DS90CR287MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-75MHz*	56-TSSOP	9.98	8.55	7.59
DS90CR287SLC-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-75MHz*	64-FBGA	11.22	9.62	8.53
DS90CR288AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-85MHz*	56-TSSOP	9.24	7.92	7.03
DS90CR481VJD-ND	48-Bit LVDS Channel Link SER/DES, 65-112MHz	100-TQFP	15.30	14.28	13.26
DS90CR482VS-ND	48-Bit LVDS Channel Link SER/DES, 65-112MHz*	100-TQFP	15.75	14.70	13.65
DS90CR483VJD-ND	48-Bit LVDS Channel Link SER/DES, 33-112MHz*	100-TQFP	17.47	14.97	13.28
DS90CR484VJD-ND	48-Bit LVDS Channel Link SER/DES, 33-112MHz*	100-TQFP	15.75	14.70	13.65
DS90CR485VS-ND	133MHz, 48-Bit Channel Link Serializer (6.384Gbps)	100-TQFP	18.45	17.22	15.99
DS90CR486VS-ND	133MHz, 48-Bit Channel Link Deserializer (6.384Gbps)*	100-TQFP	18.45	17.22	15.99
DS90LV001TLDCT-ND	3.3V LVDS-LVDS Buffer*	8-LLP	2.36	1.75	1.30
DS90LV001TLDTR-ND	3.3V LVDS-LVDS Buffer	8-LLP	972.80/1,000		
DS90LV001TM-ND	3.3V LVDS-LVDS Buffer*	8-SOIC	2.36	1.75	1.30
DS90LV004TVS-ND	4-Channel LVDS Buffer/Repeater with Pre-Emphasis*	48-TQFP	7.18	5.68	4.55
DS90LV011ATMFCT-ND	3V LVDS Single High Speed Differential Driver*	SOT-23	1.61	1.18	.86
DS90LV011ATMFTR-ND	3V LVDS Single High Speed Differential Driver*	SOT-23	556.40/1,000		
DS90LV017ATM-ND	LVDS Single High Speed Differential Driver*	8-SOIC	1.86	1.38	1.02
DS90LV017M-ND	LVDS Single High Speed Differential Driver*	8-SOIC	1.83	1.36	1.01
DS90LV018ATM-ND	LVDS 3V, Single CMOS Differential Line Receiver*	8-SOIC	2.11	1.57	1.16
DS90LV019TM-ND	LVDS 3.3V or 5V Driver/Receiver*	14-SOIC	2.65	2.02	1.54
DS90LV019TMTC-ND	LVDS 3.3V or 5V Driver/Receiver*	14-TSSOP	2.65	2.02	1.54
DS90LV027ATM-ND	LVDS Dual High Speed Differential Driver*	8-SOIC	2.21	1.64	1.22
DS90LV027M-ND	LVDS Dual High Speed Differential Driver*	8-SOIC	2.45	1.82	1.35
DS90LV028ATLDCT-ND	LVDS 3V Dual CMOS Differential Line Receiver	8-LLP	2.95	2.19	1.62
DS90LV028ATLDTR-ND	LVDS 3V Dual CMOS Differential Line Receiver	8-LLP	1216.00/1,000		
DS90LV028ATM-ND	LVDS 3V Dual CMOS Differential Line Receiver*	8-SOIC	2.95	2.19	1.62
DS90LV031ATM-ND	LVDS 3V Quad CMOS Differential Line Driver*	16-SOIC	2.78	2.11	1.61
DS90LV031ATMTC-ND	LVDS 3V Quad CMOS Differential Line Driver*	16-TSSOP	2.78	2.11	1.61
DS90LV031ATMXCT-ND	LVDS 3V Quad CMOS Differential Line Driver	16-SOIC	2.78	2.11	1.61
DS90LV031ATMXTR-ND	LVDS 3V Quad CMOS Differential Line Driver	16-SOIC	3468.75/2,500		
DS90LV031BTM-ND	LVDS 3V Quad CMOS Differential Line Driver*	16-SOIC	2.78	2.11	1.61
DS90LV032ATM-ND	LVDS 3V Quad CMOS Differential Line Receiver*	16-SOIC	2.78	2.11	1.61
DS90LV032ATMTC-ND	LVDS 3V Quad CMOS Differential Line Receiver*	16-TSSOP	2.78	2.11	1.61
DS90LV047ATM/DRSN-ND	LVDS 3V Quad CMOS Differential Line Driver*	16-SOIC	2.73	2.08	1.59
DS90LV047ATMTC/DRSN-ND	LVDS 3V Quad CMOS Differential Line Driver*	16-TSSOP	2.73	2.08	1.59
DS90LV048ATM/DRSN-ND	LVDS 3V Quad CMOS Differential Line Receiver*	16-SOIC	2.73	2.08	1.59
DS90LV048ATMTC/DRSN-ND	LVDS 3V Quad CMOS Differential Line Receiver*	16-TSSOP	2.73	2.08	1.59
DS90LV049HMTXCT-ND	High Temp. 3V LVDS Dual Line Driver/Receiver Pair*	16-TSSOP	2.67	1.98	1.47
DS90LV049HMTXTR-ND	High Temp. 3V LVDS Dual Line Driver/Receiver Pair*	16-TSSOP	2687.50/2,500		
DS90LV049TMT-ND	3V LVDS Dual Line Driver with Dual Line Receiver*	16-TSSOP	2.51	1.87	1.38
DS90LV110ATMT-ND	1-to-10 LVDS Data/Clock Distributor with Failsafe*	28-TSSOP	6.99	5.53	4.43
DS90LV110TMTC-ND	1-to-10 LVDS Data/Clock Distributor*	28-TSSOP	6.99	5.53	4.43

* ***RoHS Compliant***

(Continued)

National Semiconductor Digi-Reel® INTERFACE CHIPS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DS90LV804TSQCT-ND	4-Channel, 800mbps LVDS Buffer/Repeater*	32-LLP	5.38	4.25	3.41
DS90LV804TSQTR-ND	4-Channel, 800mbps LVDS Buffer/Repeater*	32-LLP	3174.40/1,000		
DS90UR241IVSCT-ND	5-43MHz DC Balanced 24-Bit LVDS Serializer/Deserializer*	48-TQFP	10.97	9.41	8.34
DS90UR241IVSTR-ND	5-43MHz DC Balanced 24-Bit LVDS Serializer/Deserializer*	48-TQFP	7774.80/1,000		
DS91C176TMA-ND	Multipoint-LVDS Transceiver*	8-SOIC	3.68	2.80	2.14
DS91C180TMA-ND	Multipoint-LVDS Line Driver/Receiver*	14-SOIC	3.80	2.89	2.21
DS91D176TMA-ND	Multipoint-LVDS Transceiver*	8-SOIC	3.68	2.80	2.14
DS91D180TMA-ND	Multipoint-LVDS Line Driver/Receiver*	14-SOIC	3.93	2.99	2.28
DS92CK16TMTC-ND	BLVDS 3V, 1-to-6 Clock Buffer/Bus Transceiver*	24-TSSOP	5.29	4.19	3.36
DS92LV16TVHG-ND	16-Bit Bus LVDS Serializer/Deserializer*	80-LQFP	13.28	11.39	10.10
DS92LV18TVV-ND	18-Bit Bus LVDS Serializer/Deserializer*	80-PQFP	14.14	12.12	10.75
DS92LV010ATM-ND	Bus LVDS 3.3/5.0V Single Transceiver*	8-SOIC	3.20	2.44	1.86
DS92LV040ATLQACT-ND	LVDS 4-Channel Bus Transceiver*	44-LLP	6.97	5.52	4.42
DS92LV040ATLQATR-ND	LVDS 4-Channel Bus Transceiver*	44-LLP	1054.10/250		
DS92LV090ATVEH-ND	LVDS 9-Channel Transceiver*	64-LQFP	9.47	7.49	6.00
DS92LV1021AMSA-ND	16MHz-40MHz 10-Bit Bus LVDS Serializer*	28-SSOP	6.38	5.05	4.05
DS92LV1021TMSA-ND	16MHz-40MHz 10-Bit Bus LVDS Serializer*	28-SSOP	19.20	17.92	16.64
DS92LV1023TMSA-ND	40MHz-66MHz 10-Bit Serializer*	28-SSOP	7.94	6.28	5.03
DS92LV1212AMSA-ND	Bus LVDS 16MHz-40MHz 10-Bit Random Lock Deserializer with Embedded Clock Recovery*	28-SSOP	6.38	5.05	4.05
DS92LV1224TMSA-ND	40MHz-66MHz 10-Bit Deserializer*	28-SSOP	8.04	6.36	5.10
DS92LV1260TUJB-ND	6-Channel 10-Bit BLVDS Deserializer*	196-LBGA	28.50	26.60	24.70
DS92LV222ATM-ND	Bus LVDS Two Channel Multiplexer Repeater*	16-SOIC	4.80	3.65	2.79
DS92LV8028TUF-ND	8-Channel 10:1 Serializer*	196-LBGA	32.10	29.96	27.82
DS99R101VS-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer/Deserializer*	48-TQFP	10.46	8.27	6.63
DS99R102VS-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer/Deserializer*	48-TQFP	10.46	8.27	6.63
DS99R104TSQCT-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer/Deserializer*	48-LLP	9.49	8.13	7.21
DS99R104TSQTR-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer/Deserializer*	48-LLP	1720.85/250		
DS99R105SQCT-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer/Deserializer*	48-LLP	9.15	7.85	6.96
DS99R105SQTR-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer/Deserializer*	48-LLP	1660.53/250		
DS99R106SQCT-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer/Deserializer*	48-LLP	9.15	7.85	6.96
DS99R106SQTR-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer/Deserializer*	48-LLP	1660.53/250		
DS99R106VS-ND	3MHz-40MHz DC-Balanced 24-Bit LVDS Serializer/Deserializer*	48-TQFP	9.35	8.01	7.11
DS485M-ND	Low Power Multipoint RS485/RS422 Transceiver*	8-SOIC	2.45	1.82	1.35
DS485N-ND	Low Power Multipoint RS485/RS422 Transceiver*	8-Dip	2.64	1.96	1.45
DS485TM-ND	Low Power Multipoint RS485/RS422 Transceiver*	8-SOIC	2.45	1.82	1.35
DS485TN-ND	Low Power Multipoint RS485/RS422 Transceiver*	8-Dip	2.58	1.92	1.42
DS1487N-ND	Low Power Multipoint RS485, 1/4 Unit Load Transceiver*	8-Dip	2.90	2.16	1.59
DS2003CM-ND	High Current/High Voltage Darlington Driver with Internal Resistor*	16-SOIC	1.29	.95	.69
DS2003CMXCT-ND	High Current/High Voltage Darlington Driver with Internal Resistor*	16-SOIC	1.24	.91	.66
DS2003CMXTR-ND	High Current/High Voltage Darlington Driver with Internal Resistor*	16-SOIC	1099.69/2,500		
DS2003CN-ND	High Current/High Voltage Darlington Driver with Internal Resistor*	16-Dip	1.43	1.05	.77
DS3486M-ND	RS422/423 Quad Line Receiver*	16-SOIC	1.44	1.06	.77
DS3486N-ND	RS422/423 Quad Line Receiver*	16-Dip	1.71	1.27	.94
DS3487M-ND	Quad Differential Line Driver*	16-SOIC	1.72	1.27	.92
DS3487N-ND	Quad Differential Line Driver*	16-Dip	2.05	1.52	1.13
DS3658N-ND	Quad High Low Current Peripheral Driver*	16-Dip	3.80	2.89	—
DS3668N-ND	Quad Fault Protect Peripheral Driver*	16-Dip	4.13	3.14	—
DS3691M-ND	RS422/423 Line Driver*	16-SOIC	1.84	1.37	1.02
DS3691N-ND	RS422/423 Line Driver*	16-Dip	2.23	1.66	1.23
DS3695AM-ND	Multipoint RS485/RS422 Transceiver/Repeater*	8-SOIC	1.63	1.22	.90
DS3695AMXTR-ND	Multipoint RS485/RS422 Transceiver/Repeater*	8-SOIC	1646.88/2,500		
DS3695ATM-ND	Multipoint RS485/422 Transceiver/Repeater*	8-SOIC	2.76	2.05	1.52
DS3695N-ND	Multipoint RS485/422 Transceiver/Repeater*	8-Dip	1.74	1.29	.96
DS3695TN-ND	Multipoint RS485/422 Transceiver/Repeater*	8-Dip	1.74	1.29	.96
DS3696N-ND	Multipoint RS485/422 Transceiver/Repeater*	8-Dip	2.51	1.87	1.38
DS36950V-ND	RS485 Quad Differential Receiver*	20-PLCC	9.00	7.71	—
DS8921AM-ND	Differential Line Driver/Receiver Pair*	8-SOIC	1.79	1.31	.96
DS8921ATM-ND	Differential Line Driver/Receiver Pair*	8-SOIC	1.79	1.31	.96
DS8921M-ND	Differential Line Driver/Receiver Pair*	8-SOIC	1.61	1.20	.89
DS8921N-ND	Differential Line Driver/Receiver Pair*	8-Dip	1.61	1.20	.89
DS8922AM-ND	RS422 Dual Driver/Receiver Pair*	16-SOIC	2.00	1.49	1.10
DS8922AN-ND	RS422 Dual Driver/Receiver Pair*	16-Dip	2.45	1.82	1.35
DS8922M-ND	RS422 Dual Driver/Receiver Pair*	16-SOIC	2.00	1.49	1.10
DS8923AM-ND	RS422 Dual Differential Line Driver/Receiver*	16-SOIC	2.00	1.49	1.10
DS8923AMXTR-ND	RS422 Dual Differential Line Driver/Receiver	16-SOIC	2018.75/2,500		
DS8923AN-ND	RS422 Dual Differential Line Driver/Receiver*	16-Dip	2.45	1.82	1.35
DS9637ACM-ND	RS423 Dual Receiver*	8-SOIC	1.58	1.16	.84
DS9638CM-ND	RS422 Dual High Speed Differential Line Driver*	8-SOIC	1.58	1.16	.84
DS14185WM-ND	EIA/TIA-232 3 Driver x 5 Receiver*	20-SOIC	1.77	1.32	.97
DS36276M-ND	Failsafe Multipoint Transceiver*	8-SOIC	3.01	2.24	1.65
DS36277TM-ND	Dominant Mode Multipoint Transceiver*	8-SOIC	2.82	2.10	1.55
DS36277TMXTR-ND	Dominant Mode Multipoint Transceiver*	8-SOIC	2843.75/2,500		
DS36277TN-ND	Dominant Mode Multipoint Transceiver*	8-Dip	3.04	2.26	1.67
DS36954M-ND	Quad Differential Bus Transceiver*	20-SOIC	9.68	8.30	7.36
DS75176BM-ND	Multipoint RS485/422 Transceiver*	8-SOIC	1.66	1.22	.89
DS75176BMXCT-ND	Multipoint RS485/422 Transceiver	8-SOIC	1.66	1.22	.89
DS75176BMXTR-ND	Multipoint RS485/422 Transceiver	8-SOIC	1408.88/2,500		
DS75176BN-ND	Multipoint RS485/422 Transceiver*	8-Dip	1.69	1.24	.90
DS75176BTM-ND	Multipoint RS485/422 Transceiver*	8-SOIC	1.69	1.24	.90
DS75176BTN-ND	Multipoint RS485/422 Transceiver*	8-Dip	1.69	1.24	.90
DS92001TLDCT-ND	3.3V B/LVDS-BLVDS Buffer*	8-LLP	2.64	1.96	1.45
DS92001TLDTR-ND	3.3V B/LVDS-BLVDS Buffer*	8-LLP	1088.00/1,000		
DS92001TMA-ND	3.3V B/LVDS-BLVDS Buffer*	8-SOIC	2.95	2.19	1.62
DS96173CN-ND	EIA422/485 Quad Receiver*	16-Dip	4.20	3.20	2.44
DS96174CN-ND	RS485/422 Quad Differential Driver*	16-Dip	3.68	2.80	2.14
DS96175CN-ND	RS485/422 Quad Differential Receiver*	16-Dip	4.38	3.33	2.54
DS96176CN-ND	RS485 Transceiver*	8-Dip	2.68	2.04	1.56
EQ50F100LRCT-ND	1Gbps to 6.25Gbps Backplane Equalizer*	6-LLP	10.40	8.91	7.91
EQ50F100LRTR-ND	1Gbps to 6.25Gbps Backplane Equalizer*	6-LLP	7365.60/1,000		

National Semiconductor Digi-Reel® LINEAR SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CLC001AJE-ND	Serial Digital Cable Driver*	8-SOIC	4.75	3.61	2.76
CLC001AJECT-ND	Serial Digital Cable Driver*	8-SOIC	4.98	3.79	2.89
CLC001AJETR-ND	Serial Digital Cable Driver*	8-SOIC	6218.75/2,500		
CLC005AJE-ND	ITU-T G.703 Cable Driver*	8-SOIC	10.61	9.09	8.06
CLC006AJE-ND	Serial Digital Cable Driver with Adjustable Outputs*	8-SOIC	9.87	7.81	6.26
CLC007AJE-ND	Serial Digital Cable Driver*	8-SOIC	8.78	6.94	5.56
CLC007BM-ND	Serial Digital Cable Driver with Dual Complementary Outputs*	8-SOIC	8.78	6.94	5.56
CLC011BCQ-ND	Serial Digital Video Decoder*	28-PLCC	12.34	10.58	9.38
CLC012AJE-ND	Adaptive Cable Equalizer for ITU-T G.703 Data Recovery*	14-SOIC	15.60	14.56	13.52
CLC014AJE-ND	Adaptive Cable Equalizer for High-Speed Recovery*	14-SOIC	17.29	14.82	13.15
CLC016ACQ-ND	Data Retiming PLL with Automatic Rate Selection*	28-PLCC	24.75	23.10	21.45
CLC016AJQ-ND	Data Retiming PLL with Automatic Rate Selection*	28-PLCC	27.60	25.76	23.92
CLC016MTC-ND	Data Retiming PLL with Automatic Rate Selection*	28-TSSOP	24.75	23.10	21.45
CLC018AJVJQ-ND	8 x 8 Digital Cross Point Switch*	68-PQFP	26.70	24.92	23.14
CLC020BCQ-ND	SMPTE 259M Digital Video Serializer*	28-PLCC	28.50	26.60	24.70
CLC021AVGZ-3.3-ND	SMPTE 259M Digital Video Serializer with EDH Generation/Insertion*	44-PQFP	37.05	34.58	32.11
CLC021AVGZ-5.0-ND	SMPTE 259M Digital Video Serializer*	44-PQFP	37.05	34.58	32.11
CLC5526MSA-ND	Digital Variable Gain Amp*	20-SSOP	8.30	6.56	5.26
CLC5903SM-ND	Dual Digital Tuner/AGC*	128-FBGA	27.15	25.34	23.53
CLC5903VLA-ND	Dual Digital Tuner/AGC*	128-PQFP	27.15	25.34	23.53
CLC730031-ND	Eval Board for Quad Op Amps in SOIC Packages*	—	6.30	4.98	3.99
CLC730116-ND	Eval Board Designed to Aid in the Characterization of 6-Pin Monolithic Amps in SOT-23-6 Packages*	—	6.30	4.98	3.99
CLC730132-ND	Quad TSSOP High Speed Buffer Evaluation Board*	—	6.30	4.80	3.99
CLC730136-ND	Single SOT-23 High Speed Buffer Evaluation Board*	—	6.30	4.98	3.99
CLC730145-ND	Quad SOIC High Speed Buffer Evaluation Board*	—	6.30	4.80	3.99
CLC730216-ND	Single SOT High Speed Op Amp Evaluation Board*	—	6.30	4.98	3.99
CLC730231-ND	Quad SOIC High Speed Op Amp Evaluation Board*	—	6.30	4.80	3.99
COP8AME9EMW8-ND	8-Bit Microcontroller with 8K Flash, Temperature Sensor 10-Bit A/D*	28-SOIC	10.82	9.27	8.22
COP8CBE9IMT9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D*	48-TSSOP	13.44	11.52	10.22
COP8CBR9HVA8-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D*	44-PLCC	15.61	13.38	11.87
COP8CBR9IMT8-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D*	48-TSSOP	14.74	12.63	11.20
COP8CCE9IMT9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D*	48-TSSOP	16.05	13.76	12.20
COP8CCR9IMT7-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D*	48-TSSOP	15.30	14.28	13.26
COP8CDE9IMT9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D*	48-TSSOP	5.73	4.54	3.64
COP8CFE9HVA9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D*	44-PLCC	5.29	4.19	3.36
COP8CFE9IMT9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D*	48-TSSOP	5.48	4.34	3.48
COP8SDE9IMT9-ND	8-Bit Microcontroller with 8K Flash*	48-TSSOP	5.40	4.27	3.42
COP8SGE7VEJ8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART*	44-LQFP	11.50	9.86	8.74
COP8SGE728M8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART*	28-SOIC	9.14	7.23	5.79
COP8SGE728N8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART*	28-Dip	9.87	7.81	6.26
COP8SGE744V8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART*	44-PLCC	9.89	8.48	7.52
COP8SGR728M8-ND	8-Bit OTP Microcontroller, 32K Memory, 2 Comparators USART*	28-SOIC	8.04	6.36	5.10
COP8SGR728N8-ND	8-Bit OTP Microcontroller, 32K Memory, 2 Comparators USART*	28-Dip	9.87	7.81	6.26
COP8SGR744V8-ND	8-Bit OTP Microcontroller, 32K Memory, 2 Comparators USART*	44-PLCC	9.17	7.86	6.97
CR16MAS9VJE9-ND	16-Bit, CAN CompactRISC™ Flash Microcontroller*	80-PQFP	18.45	17.22	15.99
CR16MCS9VJE9-ND	16-Bit, CAN CompactRISC™ Flash Microcontroller*	80-PQFP	18.45	17.22	15.99
LF156H-ND	Mono JFET In Op Amp*	TO-5	5.67	4.49	3.60
LF256H-ND	Wideband JFET Op Amp*	TO-5	5.67	4.49	3.60
LF298M-ND	Monolithic Sample and Hold Circuit*	14-SOIC	3.10	2.36	1.80
LF347BN-ND	Quad Bi-FET Op Amp*	14-Dip	2.21	1.65	1.22
LF347M-ND	Quad Bi-FET Op Amp*	14-SOIC	2.24	1.67	1.23
LF347MXTR-ND	Quad Bi-FET Op Amp*	14-SOIC	2259.38/2,500		
LF347NNS-ND	Quad Bi-FET Op Amp*	14-Dip	2.16	1.61	1.19
LF353M-ND	Wideband Dual JFET Op Amp*	8-SOIC	1.21	.89	.65
LF353MXCT-ND	Wideband Dual JFET Op Amp*	8-SOIC	1.08	.78	.57
LF353MXTR-ND	Wideband Dual JFET Op Amp*	8-SOIC	1029.56/2,500		
LF353NNS-ND	Wideband Dual JFET Input Op Amp*	8-Dip	1.34	.99	.72
LF356H-ND	Monolithic JFET Input Op Amp*	TO-5	5.67	4.49	3.60
LF356M-ND	Monolithic JFET Input Op Amp*	8-SOIC	.95	.70	.51
LF356N-ND	Monolithic JFET Input Op Amp*	8-Dip	1.12	.82	.60
LF398AN-ND	Monolithic Sample and Hold Circuit*	8-Dip	3.05	2.32	1.77
LF398H-ND	Monolithic Sample and Hold Circuit*	TO-5	5.88	4.65	3.73
LF398M-ND	Monolithic Sample and Hold Circuit*	14-SOIC	2.06	1.53	1.13
LF398N-ND	Monolithic Sample and Hold Circuit*	8-Dip	2.11	1.57	1.16
LF411ACH-ND	Low Offset Low Drift JFET Input Op Amp*	TO-5	8.82	6.98	5.59
LF411ACN-ND	Low Offset Low Drift JFET Input Op Amp*	8-Dip	4.80	3.65	2.79
LF411CN-ND	Low Offset Low Drift JFET Input Op Amp*	8-Dip	1.63	1.20	.87
LF412ACN-ND	Low Offset Low Drift JFET Dual Op Amp*	8-Dip	4.98	3.79	2.89
LF412CN-ND	Low Offset Low Drift JFET Dual Op Amp*	8-Dip	1.66	1.24	.92
LF412MH-ND	Low Offset Low Drift JFET Dual Op Amp*	TO-5	9.07	7.18	5.75
LF442ACN-ND	Dual Low Power JFET Op Amp*	8-Dip	5.63	4.28	3.27
LF442AMH-ND	Dual Low Power JFET Op Amp*	TO-5	17.40	16.24	15.08
LF442CN-ND	Dual Low Power JFET Op Amp*	8-Dip	1.76	1.29	.94
LF444ACN-ND	Quad Low Power JFET Op Amp*	14-Dip	3.30	2.51	1.92
LF444CM-ND	Quad Low Power JFET Op Amp*	14-SOIC	1.93	1.43	1.06
LF444CN-ND	Quad Low Power JFET Op Amp*	14-Dip	1.98	1.47	1.09
LM10CH-ND	Op Amp and Voltage Reference*	TO-5	6.72	5.32	4.26
LM10CLN-ND	Op Amp and Voltage Reference*	8-Dip	2.70	2.06	1.57
LM10CN-ND	Op Amp and Voltage Reference*	8-Dip	2.98	2.27	1.73
LM10CWM-ND	Op Amp and Voltage Reference*	14-SOIC	2.83	2.15	1.64
LM12CLK-ND	80W Power Op Amp 4-Pin*	TO-3	55.20	51.52	47.84
LM12H458CIV-ND	12-Bit + Sign DAS with Self-Calibration*	44-PQFP	20.55	19.18	17.81
LM12H458CIVF-ND	12-Bit + Sign DAS with Self-Calibration*	44-PQFP	20.55	19.18	17.81
LM12L458CIV-ND	12-Bit + Sign DAS with Self-Calibration*	44-PQFP	20.55	19.18	17.81
LM19CIZ-ND	2.4V, 10μA Temperature Sensor, -55° to 130°C*	TO-92	1.11	.81	.59
LM20BIM7CT-ND	Micro SMD Temperature Sensor, ±2.5°C	SC70-5	1.12	.82	.60
LM20BIM7TR-ND	Micro SMD Temperature Sensor, ±2.5°C	SC70-5	387.40/1,000		
LM20CIM7CT-ND	Micro SMD Temperature Sensor, ±5°C*	SC70-5	.96	.71	.51
LM20CIM7TR-ND	Micro SMD Temperature Sensor, ±5°C*	SC70-5	331.50/1,000		
LM20SIBPCT-ND	Micro SMD Temperature Sensor	4-microSMD	.96	.71	.51

***** ***RoHS Compliant***

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★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

National Semiconductor Digi-Reel®

LINEAR SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM20SIBPTR-ND	Micro SMD Temperature Sensor	4-microSMD		95.63/250	
LM26CIM5-HHDCT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.43	1.05	.76
LM26CIM5-HHDTR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5		494.00/1,000	
LM26CIM5-NPACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.43	1.05	.76
LM26CIM5-NPATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5		494.00/1,000	
LM26CIM5-PHACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.43	1.05	.76
LM26CIM5-PHATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5		494.00/1,000	
LM26CIM5-RPACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.43	1.05	.76
LM26CIM5-RPATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5		494.00/1,000	
LM26CIM5-SHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-SHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-SPACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.43	1.05	.76
LM26CIM5-SPATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5		494.00/1,000	
LM26CIM5-TPACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.43	1.05	.76
LM26CIM5-TPATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5		494.00/1,000	
LM26CIM5-VHACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.43	1.05	.76
LM26CIM5-VHATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5		494.00/1,000	
LM26CIM5-VPACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.43	1.05	.76
LM26CIM5-VPATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5		494.00/1,000	
LM26CIM5-XHACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.43	1.05	.76
LM26CIM5-XHATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5		494.00/1,000	
LM26CIM5-XPACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.43	1.05	.76
LM26CIM5-XPATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5		494.00/1,000	
LM26CIM5-YHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-YHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-YPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-YPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-ZHACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.43	1.05	.76
LM26CIM5-ZHATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5		494.00/1,000	
LM26LVCISDCT-ND	1.6V Preset Temperature Switch and Temperature Sensor*	6-LLP	1.78	1.31	.95
LM26LVCISDTR-ND	1.6V Preset Temperature Switch and Temperature Sensor*	6-LLP		617.50/1,000	
LM27CIM5-1HJCT-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat	SOT-23-5	2.33	1.73	1.28
LM27CIM5-1HJTR-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat	SOT-23-5		961.28/1,000	
LM27CIM5-2HJCT-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat	SOT-23-5	2.33	1.73	1.28
LM27CIM5-2HJTR-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat	SOT-23-5		961.28/1,000	
LM27CIM5-ZHJCT-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat*	SOT-23-5	2.33	1.73	1.28
LM27CIM5-ZHJTR-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat*	SOT-23-5		961.28/1,000	
LM32CIMT-ND	Dual Thermal Diode Temperature Sensor*	14-TSSOP	3.10	2.36	1.80
LM34AH-ND	Precision Fahrenheit Temperature Sensor, -50°F to 300°F*	TO-46	13.86	11.88	10.54
LM34CAH-ND	Precision Fahrenheit Temperature Sensor, -40°F to 230°F*	TO-46	11.55	9.90	8.78
LM34CAZ-ND	Precision Fahrenheit Temperature Sensor, -40°F to 230°F*	TO-92	7.14	5.65	4.53
LM34CH-ND	Precision Fahrenheit Temperature Sensor, -40°F to 230°F*	TO-46	9.52	8.16	7.24
LM34CZ-ND	Precision Fahrenheit Temperature Sensor, -40°F to 230°F*	TO-92	5.54	4.39	3.52
LM34DM-ND	Precision Fahrenheit Temperature Sensor, +32°F to 212°F*	8-SOIC	2.23	1.66	1.23
LM34DZ-ND	Precision Fahrenheit Temperature Sensor, +32°F to 212°F*	TO-92	2.51	1.87	1.38
LM35AH-ND	Precision Celsius Temperature Sensor, -55°C to 150°C*	TO-46	16.80	15.68	14.56
LM35CAH-ND	Precision Celsius Temperature Sensor, -40°C to 110°C*	TO-46	11.55	9.90	8.78
LM35CAZ-ND	Precision Celsius Temperature Sensor, -40°C to 110°C*	TO-92	5.40	4.27	3.42
LM35CH-ND	Precision Celsius Temperature Sensor, -40°C to 110°C*	TO-46	9.03	7.74	6.87
LM35CZ-ND	Precision Celsius Temperature Sensor, -40°C to 110°C*	TO-92	5.28	4.01	3.06
LM35DH-ND	Precision Celsius Temperature Sensor, 0°C to 100°C*	TO-46	8.19	6.48	5.19
LM35DM-ND	Precision Celsius Temperature Sensor, 0°C to 100°C*	8-SOIC	1.82	1.35	1.00
LM35DMXCT-ND	Precision Celsius Temp. Sensor, 0°C to 100°C*	8-SOIC	1.80	1.34	.99
LM35DMXTR-ND	Precision Celsius Temp. Sensor, 0°C to 100°C*	8-SOIC		1834.38/2,500	
LM35DT-ND	Precision Celsius Temperature Sensor*	TO-220	2.82	2.10	1.55
LM35DZ-ND	Precision Celsius Temperature Sensor, 0°C to 100°C*	TO-92	1.74	1.30	.96
LM40CIMT-ND	Hardware Monitor with Dual Thermal Diodes and SensorPath™ Bus*	14-TSSOP	3.68	2.80	2.14
LM41CIMT-ND	Hardware Monitor with Thermal Diode Inputs and SensorPath™ Bus*	14-TSSOP	3.58	2.72	2.08
LM45BIM3CT-ND	Precision Celsius Temperature Sensor*	SOT-23	1.58	1.18	.87
LM45BIM3TR-ND	Precision Celsius Temperature Sensor*	SOT-23		652.80/1,000	
LM45CIM3CT-ND	Precision Celsius Temperature Sensor*	SOT-23	1.01	.75	.54
LM45CIM3TR-ND	Precision Celsius Temperature Sensor*	SOT-23		351.00/1,000	
LM50BIM3CT-ND	Single Supply Centigrade Temperature Sensor*	SOT-23	1.76	1.29	.94
LM50BIM3TR-ND	Single Supply Centigrade Temperature Sensor*	SOT-23		608.40/1,000	
LM50CIM3CT-ND	Single Supply Centigrade Temperature Sensor*	SOT-23	.96	.71	.51
LM50CIM3TR-ND	Single Supply Centigrade Temperature Sensor*	SOT-23		331.50/1,000	
LM56BIM-ND	Dual Output Low Power Thermostat*	8-SOIC	2.51	1.87	1.38
LM56BIMMCT-ND	Dual Output Low Power Thermostat*	8-MSOP	2.95	2.19	1.62
LM56BIMMTR-ND	Dual Output Low Power Thermostat*	8-MSOP		1216.00/1,000	
LM56CIM-ND	Dual Output Low Power Thermostat*	8-SOIC	1.89	1.41	1.04
LM56CIMMCT-ND	Dual Output Low Power Thermostat	8-MSOP	2.23	1.66	1.23
LM56CIMMTR-ND	Dual Output Low Power Thermostat	8-MSOP		921.60/1,000	
LM60BIM3CT-ND	2.7V, Temperature Sensor, -40°C to 125°C*	SOT-23	1.28	.94	.68
LM60BIM3TR-ND	2.7V, Temperature Sensor, -40°C to 125°C*	SOT-23		442.00/1,000	
LM60BIZ-ND	2.7V, Temperature Sensor, -40°C to 125°C*	TO-92	1.16	.86	.62
LM60CIM3CT-ND	2.7V, Temperature Sensor, -40°C to 125°C*	SOT-23	1.08	.78	.57
LM60CIM3TR-ND	2.7V, Temperature Sensor, -40°C to 125°C*	SOT-23		336.00/1,000	
LM60CIZ-ND	2.7V, Temperature Sensor, -40°C to 125°C*	TO-92	.90	.65	.47
LM61BIM3CT-ND	2.7V, Temperature Sensor, -30°C to 100°C*	SOT-23	1.28	.94	.68
LM61BIM3TR-ND	2.7V, Temperature Sensor, -30°C to 100°C*	SOT-23		442.00/1,000	
LM61CIM3CT-ND	2.7V, Temperature Sensor, -30°C to 100°C*	SOT-23	1.08	.78	.57
LM61CIM3TR-ND	2.7V, Temperature Sensor, -30°C to 100°C*	SOT-23		336.00/1,000	
LM61CIZ-ND	2.7V, Temperature Sensor, -30°C to 100°C*	TO-92	.90	.65	.47
LM62BIM3CT-ND	2.7V, Temperature Sensor, 0°C to 100°C*	SOT-23	1.28	.94	.68
LM62BIM3TR-ND	2.7V, Temperature Sensor, 0°C to 100°C*	SOT-23		442.00/1,000	
LM62CIM3CT-ND	2.7V, Temperature Sensor, 0°C to 100°C*	SOT-23	1.07	.78	.56
LM62CIM3TR-ND	2.7V, Temperature Sensor, 0°C to 100°C*	SOT-23		333.20/1,000	
LM63CIMA-ND	Digital Temperature Sensor with Integrated Fan Control*	8-SOIC	3.09	2.30	1.70
LM63DIMA-ND	Digital Temperature Sensor with Integrated Fan Control*	8-SOIC	2.95	2.19	1.62
LM70CILD-3CT-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP	2.00	1.49	1.10
LM70CILD-3TR-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP		826.88/1,000	
LM70CILD-5CT-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP	2.00	1.49	1.10
LM70CILD-5TR-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP		826.88/1,000	
LM70CIMM-3CT-ND	10-Bit Plus Sign Digital Temperature Sensor*	8-MSOP	1.86	1.38	1.02
LM70CIMM-3TR-ND	10-Bit Plus Sign Digital Temperature Sensor*	8-MSOP		766.72/1,000	
LM70CIMM-5CT-ND	SPI/Microwire™ 10-Bit plus Digital Temp. Sensor*	8-MSOP	1.86	1.38	1.02
LM70CIMM-5TR-ND	SPI/Microwire™ 10-Bit plus Digital Temp. Sensor*	8-MSOP		766.72/1,000	
LM70CIMMX-3CT-ND	10-Bit plus Sign Digital Temperature Sensor*	8-MSOP	1.86	1.38	1.02
LM70CIMMX-3TR-ND	10-Bit plus Sign Digital Temperature Sensor*	8-MSOP		2620.63/3,500	
LM71CIMFCT-ND	SPI/Microwire™ 13-Bit plus Sign Temperature Sensor	SOT-23-5	2.06	1.53	1.14
LM71CIMFTR-ND	SPI/Microwire™ 13-Bit plus Sign Temperature Sensor	SOT-23-5		851.20/1,000	
LM71CISDCT-ND	SPI/Microwire™ 13-Bit plus Sign Temperature Sensor	6-LLP	2.06	1.53	1.14
LM71CISDTR-ND	SPI/Microwire™ 13-Bit plus Sign Temperature Sensor	6-LLP		851.20/1,000	
LM73CIMK-0CT-ND	2.7V, 11-to-14 Bit Digital Temperature Sensor*	6-TSOT	1.56	1.16	.86
LM73CIMK-0TR-ND	2.7V, 11-to-14 Bit Digital Temperature Sensor*	6-TSOT		645.12/1,000	
LM73CIMK-1CT-ND	2.7V, 11-to-14 Bit Digital Temp. Sensor*	TSOT-23-6	1.56	1.16	.86
LM73CIMK-1TR-ND	2.7V, 11-to-14 Bit Digital Temp. Sensor*	TSOT-23-6		645.12/1,000	
LM74CIBP-5CT-ND	5V, 12-Bit Digital Temperature Sensor	5-microSMD	2.24	1.67	1.23
LM74CIM-3-ND	3V, 12-Bit Digital Temperature Sensor*	8-SOIC	1.71	1.28	.95
LM74CIM-5-ND	5V, 12-Bit Digital Temperature Sensor*	8-SOIC	1.71	1.28	.95
LM75CIM-3-ND	3V, Digital Temperature Sensor*	8-SOIC	2.11	1.57	1.16
LM75CIM-5-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface*	8-SOIC	2.11	1.57	1.16
LM75CIMX-5TR-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-SOIC		2125.00/2,500	
LM75CIMM-3CT-ND	3.3V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface*	8-MSOP	2.17	1.61	1.19
LM75CIMM-3TR-ND	3.3V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface*	8-MSOP		896.00/1,000	
LM75CIMM-5CT-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface*	8-MSOP	2.17	1.61	1.19
LM75CIMM-5TR-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface*	8-MSOP		896.00/1,000	
LM76CHM-5-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface*	8-SOIC	2.90	2.16	1.59
LM77CIM-3-ND	3V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface*	8-SOIC	2.11	1.57	1.16
LM77CIM-5-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface*	8-SOIC	2.11	1.57	1.16
LM77CIMM-3CT-ND	3V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP	2.11	1.57	1.16
LM77CIMM-3TR-ND	3V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP		870.40/1,000	
LM77CIMM-5CT-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP	2.11	1.57	1.16
LM77CIMM-5TR-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP		870.40/1,000	
LM78L05ACM-ND	5V, 100mA Positive Regulator*	8-SOIC	.73	.53	.39
LM78L05ACMXCT-ND	5V, 100mA Positive Regulator*	8-SOIC	.68	.49	.36
LM78L05ACMXTR-ND	5V, 100mA Positive Regulator*	8-SOIC		538.65/2,500	
LM78L05ACZNS-ND	5V, 100mA Positive Regulator*	TO-92	.73	.53	.39
LM78L05IBPCT-ND	3-Terminal Positive Regulator	8-microSMD	1.10	.81	.59
LM78L05IBPTR-ND	3-Terminal Positive Regulator	8-microSMD		110.25/250	
LM78L05ITPCT-ND	3-Terminal Positive Regulator*	8-microSMD	1.10	.81	.59
LM78L05ITPTR-ND	3-Terminal Positive Regulator*	8-microSMD		110.25/250	
LM78L12ACM-ND	12V, 100mA Positive Regulator*	8-SOIC	.73	.53	.39
LM78L12ACMXTR-ND	12V, 100mA Positive Regulator*	8-SOIC		538.65/2,500	
LM78L12ACZ-ND	12V, 100mA Voltage Regulator*	TO-92	.73	.53	.39
LM78L15ACM-ND	15V, 100mA Positive Regulator*	8-SOIC	.73	.53	.39
LM78L15ACMXCT-ND	15V, 100mA Positive Regulator*	8-SOIC	.68	.49	.36
LM78L15ACMXTR-ND	15V, 100mA Positive Regulator*	8-SOIC		538.65/2,500	
LM78L15ACZ-ND	15V, 100mA Positive Regulator*	TO-92	.73	.53	.39
LM78L62ACZ-ND	6.2V, 100mA Positive Regulator*	TO-92	1.22	.90	.65
LM78M05CDT-ND	3-Terminal Positive Regulator*	TO-252	1.59	1.17	.85
LM78M12CH-ND	12V, 500mA Positive Regulator*	TO-39	6.30	4.98	3.99
LM78M12CT-ND	12V, 500mA Positive Regulator*	TO-220	1.67	1.23	.89
LM78M15CH-ND	15V, 500mA Positive Regulator*	TO-39	6.30	4.98	3.99
LM78S40CN-ND	Universal Switching Regulator Subsystem*	16-Dip	1.79	1.33	.99
LM78S40N-ND	Universal Switching Regulator Subsystem, Ind. Temp*	16-Dip	2.67	1.98	1.47
LM79L05ACM-ND	5V, 100mA Negative Regulator*	8-SOIC	1.04	.75	.55
LM79L05ACMXTR-ND	5V, 100mA Negative Regulator*	8-SOIC		764.75/2,500	
LM79L12ACM-ND	12V, 100mA Negative Regulator*	8-SOIC	1.04	.75	.55
LM79L12ACMXTR-ND	12V, 100mA Negative Regulator	8-SOIC		764.75/2,500	
LM79M05CT-ND	5V, 500mA Negative Voltage Regulator*	TO-220	1.85	1.36	.99
LM79M12CT-ND	12V, 500mA Negative Voltage Regulator*	TO-220	1.85	1.36	.99
LM79M15CT-ND	15V, 500mA Negative Voltage Regulator*	TO-220	1.85	1.36	.99
LM80CIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-5.75V*	24-TSSOP	5.80	4.59	3.68
LM80CIMT-5-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-5.75V*	24-TSSOP	5.80	4.59	3.68
LM81BIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-3.8V*	24-TSSOP	3.93	2.99	2.28
LM81CIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-3.8V*	24-TSSOP	3.93	2.99	2.28
LM82CIMQA-ND	Triple-Diode Input and Local Digital Temperature Sensor with Two-Wire Interface*	16-SSOP	3.83	2.91	2.22
LM83CIMQA-ND	Triple-Diode Input and Local Digital Temperature Sensor with Two-Wire Interface*	16-SSOP	5.95	4.53	3.46
LM84BIMQA-ND	Diode Input Temp. Sensor with Two-Wire Interface*	16-SSOP	3.58	2.72	2.08
LM86CIMMCT-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface*	8-MSOP	1.77	1.32	.97
LM86CIMMTR-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface*	8-MSOP		729.60/1,000	
LM87CIMT-ND	Serial Interface System Hardware Monitor with Remote Diode Temperature Sensing*	24-TSSOP	5.53	4.20	3.21
LM90CIMMCT-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP	1.97	1.47	1.09
LM90CIMMTR-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP		815.36/1,000	
LM92CIM-ND	Temperature Sensor and Thermal Window Comparator with Two-Wire Interface*	8-SOIC	4.05	3.08	2.35
LM93CIMT-ND	Hardware Monitor with Integrated Fan Control for Server Management*	56-TSSOP	9.98	7.89	6.32
LM94CIMT-ND	Hardware Monitor with PI Loop Fan Control*	56-TSSOP	10.31	8.84	7.84
LM99-1CIMMCT-ND	Accurate, High Temperature, Remote Diode Temperature Sensor with Two-Wire Interface	8-MSOP	2.63	2.00	1.53
LM99-1CIMMTR-ND	Accurate, High Temperature, Remote Diode Temperature Sensor with Two-Wire Interface	8-MSOP		1323.00/1,000	
LM99CIMMCT-ND	Accurate, High Temperature, Remote Diode Temperature Sensor with Two-Wire Interface	8-MSOP	2.63	2.00	1.53
LM99CIMMTR-ND	Accurate, High Temperature, Remote Diode Temperature Sensor with Two-Wire Interface	8-MSOP		1323.00/1,000	
LM108AH-ND	Precision Op Amp*	TO-5	6.72	5.32	4.26

* *RoHS Compliant*

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM111H-ND	Voltage Comparator*	TO-5	5.67	4.49	3.60
LM111J-8-ND	Voltage Comparator	8-CDip	10.15	8.70	7.72
LM113H-ND	Reference Diode*	TO-46	9.45	8.10	7.19
LM117H-ND	500mA Positive Adjustable Voltage Regulator*	TO-39	8.06	6.38	5.11
LM117K STEEL-ND	Positive Adjustable Voltage Regulator*	TO-3	19.50	18.20	16.90
LM120H-5.0-ND	1.5A, 3-Terminal Negative Voltage Regulator*	TO-39	9.98	8.55	7.59
LM124AJ-ND	Low Power Quad Op Amp	14-CDip	6.93	5.48	4.39
LM124J-ND	Low Power Quad Op Amp	14-CDip	6.93	5.48	4.39
LM135AH-ND	Precision Temperature Sensor	TO-46	16.59	14.22	12.61
LM135H-ND	Precision Temperature Sensor*	TO-46	10.08	7.97	6.39
LM136AH-2.5-ND	2.5V, Reference Diode*	TO-46	10.12	8.67	7.69
LM136H-2.5-ND	2.5V, Reference Diode*	TO-46	9.87	7.81	6.26
LM136H-5.0-ND	5V, Reference Diode*	TO-46	9.87	7.81	6.26
LM137H-ND	.5A, 3-Terminal Negative Voltage Regulator*	TO-39	9.45	8.10	7.19
LM139J-ND	Low Power Low Offset Quad Comp.	14-CDip	8.40	6.64	5.32
LM140K-5.0-ND	5V, Series 3-Terminal Positive Regulator*	TO-3	19.50	18.20	16.90
LM140K-12-ND	12V, 1.5A Positive Voltage Regulator*	TO-3	19.50	18.20	16.90
LM140LAH-5.0-ND	5V, Series 3-Terminal Positive Regulator*	TO-39	6.72	5.32	4.26
LM140LAH-12-ND	12V, 100mA Positive Voltage Regulator*	TO-39	6.72	5.32	4.26
LM148J-ND	Quad 741 Op Amp	14-CDip	7.98	6.31	5.06
LM150K STEEL-ND	3A, Positive Adjustable Voltage Regulator*	TO-3	19.65	18.34	17.03
LM158AH-ND	Low Power Dual Op Amp*	TO-5	7.98	6.31	5.06
LM158H-ND	Low Power Dual Op Amp*	TO-5	5.25	4.15	3.33
LM185BH-ND	Adjustable Micropower Voltage Reference*	TO-46	12.08	10.35	9.18
LM185H-2.5-ND	Micropower Voltage Reference Diode	TO-46	9.66	7.64	6.12
LM193H-ND	Low Power Offset Voltage Dual Comparator*	TO-5	5.25	4.15	3.33
LM219J-ND	High Speed Dual Comparator	14-CDip	17.33	14.85	13.17
LM224J-ND	Low Power Quad Op Amp	14-CDip	6.93	5.48	4.39
LM231AN-ND	Precision Voltage-to-Frequency Converter*	8-Dip	8.04	6.36	5.10
LM231N-ND	Precision Voltage-to-Frequency Converter*	8-Dip	5.96	4.72	3.78
LM234Z-3-ND	Adjustable Current Source/Temperature Sensor*	TO-92	2.90	2.21	1.69
LM234Z-6-ND	Adjustable Current Source/Temperature Sensor*	TO-92	1.69	1.26	.93
LM235AH-ND	Precision Temperature Sensor*	TO-46	10.50	9.00	7.98
LM235H-ND	Precision Temperature Sensor*	TO-46	8.19	6.48	5.19
LM236AH-2.5-ND	2.5V, (1%) Voltage Reference*	TO-46	7.35	5.81	4.66
LM236AH-5.0-ND	5V, Reference Diode*	TO-46	7.35	5.81	4.66
LM236H-2.5-ND	2.5V, Reference Diode*	TO-46	6.30	4.98	3.99
LM239J-ND	High Performance Quad Comparator	14-CDip	8.40	6.64	5.32
LM285BXZ-ND	Adjustable Micropower Voltage Reference	TO-92	2.65	2.02	1.54
LM285BYM-ND	Adjustable Micropower Voltage Reference	8-SOIC	2.79	2.08	1.54
LM285BYZ-ND	Micropower Adjustable Voltage Reference*	TO-92	2.64	1.96	1.45
LM285BYZ-1.2-ND	1.2V, Micropower Voltage Reference*	TO-92	2.64	1.96	1.45
LM285BYZ-2.5-ND	2.5V, Reference Diode	TO-92	2.64	1.96	1.45
LM285M-ND	Micropower Adjustable Voltage Reference*	8-SOIC	1.22	.90	.65
LM285MXTR-ND	Micropower Adjustable Voltage Reference*	8-SOIC	1032.75/2,500		
LM285M-1.2-ND	1.2V, Reference Diode*	8-SOIC	1.10	.81	.59
LM285M-2.5-ND	Micropower Voltage Reference Diode*	8-SOIC	1.10	.81	.59
LM285MX-2.5CT-ND	Micropower Voltage Reference Diode*	8-SOIC	1.16	.86	.62
LM285MX-2.5TR-ND	Micropower Voltage Reference Diode*	8-SOIC	937.13/2,500		
LM285Z-ND	Adjustable Micropower Voltage Reference*	TO-92	1.16	.85	.62
LM285Z-1.2NS-ND	Micropower Voltage Reference Diode*	TO-92	1.10	.81	.59
LM285Z-2.5-ND	2.5V, Reference Diode*	TO-92	1.10	.81	.59
LM301AH-ND	General Purpose Op Amp*	TO-5	5.67	4.49	3.60
LM301ANNS-ND	General Purpose Op Amp*	8-Dip	1.12	.82	.60
LM308AH-ND	General Purpose Op Amp*	TO-5	6.30	4.98	3.99
LM308H-ND	Super Gain Op Amp*	TO-5	6.30	4.98	3.99
LM309H-ND	5V Voltage Regulator*	TO-39	7.14	5.65	4.53
LM309K STEEL-ND	+5V, 1.5A Voltage Regulator*	TO-3	19.35	18.06	16.77
LM311H-ND	Voltage Comparator*	TO-99	5.67	4.49	3.60
LM311MNS-ND	Voltage Comparator*	8-SOIC	.84	.61	.44
LM311MXCT-ND	Voltage Comparator*	8-SOIC	.63	.46	.33
LM311MXTR-ND	Voltage Comparator*	8-SOIC	621.78/2,500		
LM311NNS-ND	High Performance Voltage Comparator*	8-Dip	.96	.70	.51
LM317AEMPCT-ND	3-Terminal Adjustable Regulator*	SOT-223	1.89	1.41	1.04
LM317AEMPTR-ND	3-Terminal Adjustable Regulator*	SOT-223	779.52/1,000		
LM317AEMPXCT-ND	3-Terminal Adjustable Regulator*	SOT-223	1.89	1.41	1.04
LM317AEMPXTR-ND	3-Terminal Adjustable Regulator*	SOT-223	1559.04/2,000		
LM317AH-ND	500mA Positive Adjustable Voltage Regulator	TO-39	7.56	5.98	4.79
LM317AMDT-ND	500mA Positive Adjustable Voltage Regulator*	TO-252	1.60	1.19	.88
LM317AT-ND	1.5A Positive Adjustable Voltage Regulator*	TO-220	1.79	1.33	.99
LM317EMPCT-ND	1A Positive Adjustable Voltage Regulator*	SOT-223	1.53	1.13	.82
LM317EMPTR-ND	1A Positive Adjustable Voltage Regulator*	SOT-223	530.40/1,000		
LM317H-ND	500mA Positive Adjustable Voltage Regulator	TO-39	7.56	5.98	4.79
LM317HVH-ND	High Voltage 500mA, Adjustable Voltage Regulator	TO-39	8.40	6.64	5.32
LM317HVK STEEL-ND	High Voltage 1.5A, Adjustable Voltage Regulator*	TO-3	18.45	17.22	15.99
LM317HVT-ND	High Voltage 1.5A, Adjustable Voltage Regulator*	TO-220	2.75	2.05	1.51
LM317K STEEL-ND	1.5A Positive Adjustable Voltage Regulator*	TO-3	19.50	18.20	16.90
LM317LIBPCT-ND	3-Terminal Adjustable Regulator	8-microSMD	1.06	.77	.56
LM317LIBPTR-ND	3-Terminal Adjustable Regulator	8-microSMD	100.30/250		
LM317LICT-ND	3-Terminal Adjustable Regulator	6-microSMD	1.10	.80	.58
LM317LITR-ND	3-Terminal Adjustable Regulator	6-microSMD	104.13/250		
LM317LM-ND	100mA Positive Adjustable Voltage Regulator*	8-SOIC	.96	.70	.51
LM317LMXCT-ND	100mA Positive Adjustable Voltage Regulator*	8-SOIC	.96	.70	.51
LM317LMXTR-ND	100mA Positive Adjustable Voltage Regulator*	8-SOIC	708.23/2,500		
LM317LZNS-ND	100mA Positive Adjustable Voltage Regulator*	TO-92	.84	.61	.44
LM317MDTNS-ND	3-Terminal Adjustable Regulator*	TO-252	1.63	1.20	.87
LM317S-ND	3-Terminal Adjustable Regulator*	TO-263	1.98	1.47	1.09
LM317SXCT-ND	3-Terminal Adjustable Regulator*	TO-263	1.98	1.47	1.09
LM317SXTR-ND	3-Terminal Adjustable Regulator*	TO-263	414.70/500		
LM317TNS-ND	1.5A Positive Adjustable Voltage Regulator*	TO-220	1.79	1.33	.99
LM318H-ND	High Slew Rate Op Amp*	TO-5	5.88	4.65	3.73
LM318M-ND	High Slew Rate Op Amp*	8-SOIC	1.39	1.02	.74
LM318N-ND	High Slew Rate Op Amp*	8-Dip	1.40	1.03	.75
LM319AM-ND	High Speed Dual Comparator*	14-SOIC	1.85	1.36	.99
LM319H-ND	High Speed Dual Comparator*	TO-5	5.88	4.65	3.73
LM319M-ND	High Speed Dual Comparator*	14-SOIC	1.25	.92	.67
LM319MXTR-ND	High Speed Dual Comparator	14-SOIC	1058.25/2,500		
LM319NNS-ND	High Speed Dual Comparator*	14-Dip	2.23	1.64	1.19
LM320H-5.0-ND	.5A, 3-Terminal Negative Voltage Regulator*	TO-39	6.93	5.48	4.39
LM320LZ-5.0-ND	5V, 0.1A Negative Voltage Regulator*	TO-92	.99	.72	.52

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM320LZ-12-ND	12V, 0.1A Negative Voltage Regulator*	TO-92	.99	.72	.52
LM320LZ-15-ND	15V, 0.1A Negative Voltage Regulator*	TO-92	.99	.72	.52
LM320T-12-ND	12V, 1.5A 3-Terminal Negative Voltage Regulator*	TO-220	1.77	1.32	.97
LM320T-15-ND	15V, 1.5A 3-Terminal Negative Voltage Regulator*	TO-220	1.77	1.32	.97
LM321MFCT-ND	Low Power Single Op Amp*	SOT-23-5	.77	.56	.40
LM321MFTR-ND	Low Power Single Op Amp*	SOT-23-5	238.00/1,000		
LM323AK STEEL-ND	5V, 3A Positive Voltage Regulator*	TO-3	19.50	18.20	16.90
LM323K STEELNS-ND	5V, 3A Positive Voltage Regulator*	TO-3	19.50	18.20	16.90
LM324AMNS-ND	Low Power Quad Op Amp*	14-SOIC	1.05	.78	.57
LM324AMXCT-ND	Low Power Quad Op Amp*	14-SOIC	1.05	.78	.57
LM324AMXTR-ND	Low Power Quad Op Amp*	14-SOIC	895.69/2,500		
LM324ANNS-ND	Low Power Quad Op Amp*	14-Dip	1.21	.89	.65
LM324MNS-ND	Low Power Quad Op Amp*	14-SOIC	1.02	.75	.55
LM324MT-ND	Low Power Quad Op Amp*	14-TSSOP	1.85	1.36	.99
LM324MXCT-ND	Low Power Quad Op Amp*	14-SOIC	1.01	.75	.54
LM324MXTR-ND	Low Power Quad Op Amp*	14-SOIC	860.63/2,500		
LM324NNS-ND	Low Power Quad Op Amp*	14-Dip	1.18	.87	.63
LM329DZ-ND	6.9V Precision Zener 100ppm/°C*	TO-92	1.40	1.03	.75
LM330T-5.0-ND	3-Terminal Positive Regulator*	TO-220	1.73	1.27	.92
LM331AN-ND	Precision Voltage-to-Frequency Converter*	8-Dip	7.20	5.70	4.57
LM331N-ND	Precision Voltage-to-Frequency Converter*	8-Dip	2.83	2.15	1.64
LM333K STEEL-ND	3A Negative Adjustable Voltage Regulator*	TO-3	30.90	28.84	26.78
LM334H-ND	3-Terminal Adjustable Current Source*	TO-46	6.00	4.56	3.48
LM334M-ND	3-Terminal Adjustable Current Source*	8-SOIC	1.21	.89	.65
LM334MXTR-ND	3-Terminal Adjustable Current Source*	8-SOIC	1029.56/2,500		
LM334SM-ND	3-Terminal Adjustable Current Source*	8-SOIC	2.58	1.96	1.50
LM334ZNS-ND	3-Terminal Adjustable Current Source*	TO-92	1.21	.89	.65
LM335AH-ND	Precision Temperature Sensor*	TO-46	7.35	5.81	4.66
LM335AM-ND	Precision Temperature Sensor*	8-SOIC	1.56	1.16	.86
LM335AZNS-ND	Precision Temperature Sensor*	TO-92	1.56	1.16	.86
LM335H-ND	Precision Temperature Sensor*	TO-46	7.14	5.65	4.53
LM335M-ND	Precision Temperature Sensor*	8-SOIC	1.21	.89	.65
LM335ZNS-ND	Voltage Mode Temperature Sensor*	TO-92	1.21	.89	.65
LM336BM-2.5-ND	2.5V Reference Diode*	8-SOIC	1.59	1.17	.85
LM336BM-5.0-ND	5V Reference Diode*	8-SOIC	1.59	1.17	.85
LM336BZ-2.5-ND	2.5V Reference Diode*	TO-92	1.59	1.17	.85
LM336BZ-5.0-ND	5V Reference Diode*	TO-92	1.59	1.17	.85
LM336M-2.5-ND	2.5V Reference Diode*	8-SOIC	.96	.71	.51
LM336MX-2.5TR-ND	2.5V Reference Diode	8-SOIC	812.81/2,500		
LM336M-5.0-ND	5.0V Reference Diode*	8-SOIC	.96	.71	.51
LM336Z-2.5NS-ND	2.5V Reference Diode*	TO-92	.96	.71	.51
LM336Z-5.0-ND	5.0V Reference Diode*	TO-92	.96	.71	.51
LM337HVH-ND	500mA Negative Adjustable Regulator High Voltage*	TO-39	8.75	7.50	6.65
LM337HVK STEEL-ND	1.5A Negative Adjustable Regulator High Voltage*	TO-3	19.80	18.48	17.16
LM337IMPCT-ND	1A Negative Adjustable Voltage Regulator*	SOT-223	1.69	1.26	.93
LM337IMPTR-ND	1A Negative Adjustable Voltage Regulator*	SOT-223	697.60/1,000		
LM337K STEEL-ND	1.5A Negative Adjustable Voltage Regulator*	TO-3	26.55	24.78	23.01
LM337LM-ND	100mA Negative Adjustable Voltage Regulator*	8-SOIC	.96	.71	.51
LM337LMXCT-ND	100mA Negative Adjustable Voltage Regulator*	8-SOIC	.96	.71	.51
LM337LMXTR-ND	100mA Negative Adjustable Voltage Regulator*	8-SOIC	812.81/2,500		
LM337LZ-ND	100mA Negative Adjustable Voltage Regulator*	TO-92	.96	.71	.51
LM337TNS-ND	1.5A Negative Adjustable Voltage Regulator*	TO-220	2.06	1.53	1.13
LM338K STEEL-ND	5A Adjustable Positive Regulator*	TO-3	30.00	28.00	26.00
LM338T-ND	5A Adjustable Positive Regulator*	TO-220	2.50	1.86	1.38
LM339AMXCT-ND	Low Power Low Offset Voltage Quad Comparator*	14-SOIC	1.08	.78	.57
LM339AMXTR-ND	Low Power Low Offset Voltage Quad Comparator*	14-SOIC	791.35/2,500		
LM339ANNS-ND	Low Power Low Offset Voltage Quad Comparator*	14-Dip	1.01	.75	.54
LM339AM-ND	Low Power Low Offset Voltage Quad Comparator*	14-SOIC	1.07	.78	.56
LM339MNS-ND	Low Power Low Offset Voltage Quad Comparator*	14-SOIC	1.04	.75	.55
LM339MXCT-ND	Low Power Low Offset Voltage Quad Comparator*	14-SOIC	1.04	.75	.55
LM339MXTR-ND	Low Power Low Offset Voltage Quad Comparator*	14-SOIC	764.75/2,500		
LM339NNS-ND	High Performance Quad Comparator*	14-Dip	1.11	.81	.59
LM340AT-5.0-ND	5V, 1.0A Positive Voltage Regulator*	TO-220	1.74	1.30	.96
LM340K-5.0-ND	5V, 1.0A Positive Voltage Regulator*	TO-3	19.50	18.20	16.90
LM340K-12-ND	12V, 1.0A Positive Voltage Regulator*	TO-3	19.50	18.20	16.90
LM340K-15-ND	15V, 1.0A Positive Voltage Regulator*	TO-3	19.50	18.20	16.90
LM340LAH-5.0-ND	5V, 100mA Positive Voltage Regulator*	TO-39	6.72	5.32	4.26
LM340LAH-12-ND	12V, 100mA Positive Voltage Regulator*	TO-39	6.72	5.32	4.26
LM340LAZ-5.0-ND	5V, 100mA Positive Voltage Regulator*	TO-92	1.08	.80	.58
LM340LAZ-12-ND	12V, 100mA Positive Voltage Regulator*	TO-92	1.08	.80	.58
LM340MP-5.0CT-ND	5V, 1A Voltage Regulator*	SOT-223	1.33	.98	.71
LM340MP-5.0TR-ND	5V, 1A Voltage Regulator*	SOT-223	460.20/1,000		
LM340S-5.0-ND	5V, Series 3-Terminal Positive Regulator*	TO-263	1.66	1.24	.92
LM340SX-5.0TR-ND	5V, Series 3-Terminal Positive Regulator*	TO-263	348.40/500		
LM340S-12-ND	12V, Series 3-Terminal Positive Regulator*	TO-263	1.66	1.24	.92
LM340T-5.0-ND	5V, 1.0A Positive Voltage Regulator (7805)*	TO-220	1.66	1.24	.92
LM340T-12-ND	12V, 1.0A Positive Voltage Regulator (7812)*	TO-220	1.66	1.24	.92
LM340T-15-ND	15V, 1.0A Positive Voltage Regulator (7815)*	TO-220	1.66	1.24	.92
LM341T-5.0-ND	5V, 500mA Voltage Regulator*	TO-220	1.76	1.29	.94
LM341T-15-ND	15V, 500mA Voltage Regulator*	TO-220	1.82	1.34	.97
LM348M-ND	Quad 741 Operational Amp*	14-SOIC	1.12	.82	.60
LM348NNS-ND	Quad 741 Operational Amp*	14-Dip	1.31	.96	.70
LM350AT-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator*	TO-220	3.35	2.55	1.95
LM350K STEELNS-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator*	TO-3	19.65	18.34	17.03
LM350TNS-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator*	TO-220	2.29	1.71	1.26
LM358AMNS-ND	Low Power Dual Op Amp*	8-SOIC	1.07	.78	.56
LM358AMXCT-ND	Low Power Dual Op Amp*	8-SOIC	1.08	.78	.57
LM358AMXTR-ND	Low Power Dual Op Amp*	8-SOIC	791.35/2,500		
LM358ANNS-ND	Low Power Dual Op Amp (Elect. Improv.)*	8-Dip	1.01	.75	.54
LM358BPCT-ND	Low Power Dual Op Amp	8-microSMD	1.07	.78	.56
LM358BPTR-ND	Low Power Dual Op Amp	8-microSMD	101.15/250		
LM358MNS-ND	Low Power Dual Op Amp*	8-SOIC	1.04	.75	.55
LM358MXCT-ND	Low Power Dual Op Amp*	8-SOIC	1.04	.75	.55
LM358MXTR-ND	Low Power Dual Op Amp*	8-SOIC	764.75/2,500		
LM358NNS-ND	Low Power Dual Op Amp*	8-Dip	1.11	.81	.59
LM359M-ND	Dual, High Speed Prog. Current Mode (Norton) Amp*	14-SOIC	2.80	2.13	1.63
LM359N-ND	High Speed Norton Op Amp*	14-Dip	2.98	2.27	1.73
LM360H-ND	High Speed Differential Comparator	TO-5	5.25	4.15	3.33
LM360M-ND	High Speed Differential Comparator*	8-SOIC	4.38	3.33	2.54
LM360N-ND	High Speed Differential Comparator*	8-Dip	4.38	3.33	2.54

***** ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM361M-ND	High Speed Differential Comparator*	14-SOIC	3.01	2.24	1.65
LM361N-ND	High Speed Differential Comparator*	14-Dip	3.01	2.24	1.65
LM380N-ND	2.5W Audio Power Amplifier*	14-Dip	1.58	1.18	.87
LM380N-8-ND	2.5W Audio Amplifier*	8-Dip	1.66	1.22	.89
LM384N-ND	5W Audio Amplifier*	14-Dip	1.58	1.18	.87
LM385BM-ND	Adj. Micropower Voltage Reference*	8-SOIC	1.06	.78	.57
LM385BM-1.2-ND	1.2V Reference Diode 150ppm/°C*	8-SOIC	1.28	.94	.68
LM385BMX-1.2TR-ND	1.2V Reference Diode 150ppm/°C	8-SOIC	1083.75/2,500		
LM385BM-2.5-ND	2.5V Reference Diode 150ppm/°C*	8-SOIC	1.28	.94	.68
LM385BMX-2.5TR-ND	2.5V Reference Diode 150ppm/°C*	8-SOIC	1083.75/2,500		
LM385BXM-2.5-ND	2.5V Micropower Voltage Reference Diode*	8-SOIC	2.83	2.15	1.64
LM385BXZ-ND	Adjustable Micropower Voltage Reference Diode*	TO-92	2.98	2.22	1.64
LM385BXZ-2.5-ND	2.5V Reference Diode 30ppm/°C*	TO-92	2.97	2.21	1.63
LM385BYM-1.2-ND	1.2V Micropower Voltage Reference Diode*	8-SOIC	2.42	1.80	1.33
LM385BYZ-1.2-ND	1.2V Precision Voltage Reference 50ppm/°C	TO-92	2.38	1.77	1.31
LM385BYZ-2.5-ND	2.5V Precision Voltage Reference 50ppm/°C*	TO-92	2.38	1.77	1.31
LM385BYZ-ND	Adjustable Reference Diode*	TO-92	2.38	1.77	1.31
LM385BZ-ND	Adjustable Micropower Voltage Reference Diode	TO-92	1.05	.77	.56
LM385BZ-1.2NS-ND	Micropower Voltage Reference Diode*	TO-92	1.29	.95	.69
LM385BZ-2.5NS-ND	2.5V, Voltage Reference Diode*	TO-92	1.29	.95	.69
LM385M-ND	Adjustable Voltage Reference Diode*	8-SOIC	1.02	.74	.54
LM385MXTR-ND	Adjustable Voltage Reference Diode*	8-SOIC	754.78/2,500		
LM385M-1.2-ND	1.2V, Voltage Reference Diode*	8-SOIC	1.02	.74	.54
LM385MX-1.2CT-ND	1.2V, Voltage Reference Diode*	8-SOIC	.81	.59	.43
LM385MX-1.2TR-ND	1.2V, Voltage Reference Diode*	8-SOIC	754.78/2,500		
LM385M-2.5-ND	2.5V, Voltage Reference Diode 150ppm/°C*	8-SOIC	1.02	.74	.54
LM385MX-2.5TR-ND	2.5V, Voltage Reference Diode 150ppm/°C*	8-SOIC	754.78/2,500		
LM385M3-2.5CT-ND	2.5V, Micropower Voltage Reference Diode*	SOT-23	1.33	.98	.71
LM385M3-2.5TR-ND	2.5V, Micropower Voltage Reference Diode*	SOT-23	460.20/1,000		
LM385M3X-1.2CT-ND	1.2V, Micropower Voltage Reference Diode*	SOT-23	1.33	.98	.71
LM385M3X-1.2TR-ND	1.2V, Micropower Voltage Reference Diode*	SOT-23	1354.05/3,000		
LM385M3X-2.5CT-ND	2.5V, Micropower Voltage Reference Diode*	SOT-23	1.33	.98	.71
LM385M3X-2.5TR-ND	2.5V, Micropower Voltage Reference Diode*	SOT-23	1354.05/3,000		
LM385Z-ND	Adjustable Voltage Reference Diode*	TO-92	.99	.72	.52
LM385Z-1.2NS-ND	1.2V, Voltage Reference Diode*	TO-92	.99	.72	.52
LM385Z-2.5NS-ND	2.5V, Voltage Reference Diode*	TO-92	.99	.72	.52
LM386M-1-ND	Low Voltage Audio Power Amp*	8-SOIC	.94	.69	.50
LM386N-1-ND	Low Voltage Audio Power Amp, Vs=6V*	8-Dip	.94	.69	.50
LM386N-3-ND	Low Voltage Audio Power Amp, Vs=9V*	8-Dip	.94	.69	.50
LM386N-4-ND	Low Voltage Audio Power Amp, Vs=16V*	8-Dip	.94	.69	.50
LM392M-ND	Single Op Amp and Comparator*	8-SOIC	1.55	1.15	.85
LM392MXTR-ND	Single Op Amp and Comparator*	8-SOIC	1562.50/2,500		
LM392N-ND	Op Amp and Comparator*	8-Dip	1.67	1.25	.92
LM393MNS-ND	Low Power Low Offset Voltage Dual Comparator*	8-SOIC	1.04	.75	.55
LM393MXCT-ND	Low Power Low Offset Voltage Dual Comparator*	8-SOIC	1.04	.75	.55
LM393MXTR-ND	Low Power Low Offset Voltage Dual Comparator*	8-SOIC	764.75/2,500		
LM393NNS-ND	Dual Comparator*	8-Dip	1.11	.81	.59
LM394CH-ND	Super Matched NPN Pairs*	TO-5	9.10	7.80	6.92
LM395T-ND	Ultra Reliable High Gain Power Transistor*	TO-220	3.48	2.65	2.02
LM431ACM-ND	Adjustable Precision Zener Shunt Regulator*	8-SOIC	.73	.53	.39
LM431ACMXTR-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	538.65/2,500		
LM431ACM3XCT-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23	.73	.53	.39
LM431ACM3XTR-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23	646.38/3,000		
LM431ACZ-ND	Adjustable Precision Zener Shunt Regulator*	TO-92	.73	.53	.39
LM431AIM3CT-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23	.77	.56	.40
LM431AIM3TR-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23	238.00/1,000		
LM431AIMXCT-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	.77	.56	.40
LM431AIMXTR-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	565.25/2,500		
LM431AIZ-ND	Adjustable Precision Zener Shunt Regulator, Ind. Temp.*	TO-92	.77	.56	.40
LM431BCM-ND	Adjustable Precision Zener Shunt Regulator	SOT-8	.79	.58	.42
LM431BCM3CT-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23	.79	.58	.42
LM431BCM3TR-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23	246.40/1,000		
LM431BCZ-ND	Adjustable Precision Zener Shunt Regulator*	TO-92	.92	.67	.48
LM431BIM-ND	Adjustable Precision Zener Shunt Regulator*	8-SOIC	.83	.60	.44
LM431BIM3CT-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23	.83	.60	.44
LM431BIM3TR-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23	257.60/1,000		
LM431BIZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	.83	.60	.44
LM431CCM3CT-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23	1.10	.81	.59
LM431CCM3TR-ND	Adjustable Precision Zener Shunt Regulator*	SOT-23	382.20/1,000		
LM431CCZ-ND	Adjustable Precision Zener Shunt Regulator*	TO-92	1.10	.81	.59
LM431CIM-ND	Adjustable Precision Zener Shunt Regulator*	8-SOIC	1.22	.90	.65
LM431CIM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	1.22	.90	.65
LM431CIM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	421.20/1,000		
LM431CIZ-ND	Adjustable Precision Zener Shunt Regulator*	TO-92	1.22	.90	.65
LM555CM-ND	Timer*	8-SOIC	1.13	.83	.60
LM555CMXCT-ND	Timer*	8-SOIC	1.13	.83	.60
LM555CMXTR-ND	Timer*	8-SOIC	956.25/2,500		
LM555CMMCT-ND	Timer*	8-MSOP	1.11	.81	.59
LM555CMMTR-ND	Timer*	8-MSOP	345.80/1,000		
LM555CNNS-ND	Timer*	8-Dip	1.24	.91	.66
LM556CM-ND	Dual Timer*	14-SOIC	1.44	1.06	.77
LM556CMXCT-ND	Dual Timer	14-SOIC	1.44	1.06	.77
LM556CMXTR-ND	Dual Timer	14-SOIC	1220.81/2,500		
LM556CN-ND	Timer*	14-Dip	1.53	1.13	.82
LM565CN-ND	Phase Lock Loop*	14-Dip	2.06	1.53	1.13
LM567CM-ND	Tone Decoder Phase Lock Loop*	8-SOIC	1.80	1.32	.96
LM567CMXTR-ND	Tone Decoder Phase Lock Loop*	8-SOIC	1530.00/2,500		
LM567CN-ND	Tone Decoder Phase Lock Loop*	8-Dip	1.80	1.32	.96
LM611CM-ND	Op Amp and Adjustable Reference*	14-SOIC	2.23	1.66	1.23
LM611IM-ND	Op Amp and Adjustable Reference*	14-SOIC	2.51	1.87	1.38
LM613IWM-ND	Dual Op Amp, Dual Comparator and Adj. Reference	16-SOIC	2.88	2.19	1.67
LM614CWM-ND	Quad Op Amp with Adjustable Reference	16-SOIC	2.50	1.90	1.45
LM628N-6-ND	Precision Motion Controller, 6MHz*	28-Dip	24.75	23.10	21.45
LM628N-8-ND	Precision Motion Controller, 8MHz*	28-Dip	42.90	40.04	37.18
LM629M-6-ND	Precision Motion Controller, 6MHz*	24-SOIC	24.75	23.10	21.45
LM629M-8-ND	Precision Motion Controller, 8MHz*	24-SOIC	42.90	40.04	37.18
LM629N-6-ND	Precision Motion Controller, 6MHz*	28-Dip	24.75	23.10	21.45
LM629N-8-ND	8-Bit PWM Motion Controller*	28-Dip	42.90	40.04	37.18
LM675T-ND	Power Operational Amplifier*	TO-220-5	5.85	4.45	3.40
LM723CH-ND	150mA Positive Adjustable Voltage Regulator*	TO-5	5.67	4.49	3.60

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM723CNNS-ND	Precision Voltage Regulator*	14-Dip	1.12	.82	.60
LM723H-ND	2V-37V, Adjustable Voltage Regulator*	TO-5	5.67	4.49	3.60
LM725CH-ND	Instrumentation Op Amp*	TO-5	5.67	4.49	3.60
LM725CN-ND	Instrumentation Op Amp*	8-Dip	2.63	2.00	1.53
LM741CH-ND	18V, High Performance Op Amp*	TO-5	5.25	4.15	3.33
LM741CNNS-ND	18V, High Performance Op Amp*	8-Dip	.84	.61	.44
LM741H-ND	High Performance Op Amp High Temp*	TO-5	5.25	4.15	3.33
LM809M3-2.63CT-ND	3-Pin Microprocessor Reset Circuits, 2.63V*	SOT-23	.84	.61	.44
LM809M3-2.63TR-ND	3-Pin Microprocessor Reset Circuits, 2.63V*	SOT-23	261.80/1,000		
LM809M3-2.93CT-ND	3-Pin Microprocessor Reset Circuits, 2.93V*	SOT-23	.84	.61	.44
LM809M3-2.93TR-ND	3-Pin Microprocessor Reset Circuits, 2.93V*	SOT-23	261.80/1,000		
LM809M3-3.08CT-ND	3-Pin Microprocessor Reset Circuits, 3.08V*	SOT-23	.84	.61	.44
LM809M3-3.08TR-ND	3-Pin Microprocessor Reset Circuits, 3.08V*	SOT-23	261.80/1,000		
LM809M3-4.00CT-ND	3-Pin Microprocessor Reset Circuits, 4.00V*	SOT-23	.84	.61	.44
LM809M3-4.00TR-ND	3-Pin Microprocessor Reset Circuits, 4.00V*	SOT-23	261.80/1,000		
LM809M3-4.38CT-ND	3-Pin Microprocessor Reset Circuits, 4.38V*	SOT-23	.84	.61	.44
LM809M3-4.38TR-ND	3-Pin Microprocessor Reset Circuits, 4.38V*	SOT-23	261.80/1,000		
LM809M3-4.63CT-ND	3-Pin Microprocessor Reset Circuits, 4.63V*	SOT-23	.84	.61	.44
LM809M3-4.63TR-ND	3-Pin Microprocessor Reset Circuits, 4.63V*	SOT-23	261.80/1,000		
LM810M3-2.63CT-ND	3-Pin Microprocessor Reset Circuits, 2.63V*	SOT-23	.84	.61	.44
LM810M3-2.63TR-ND	3-Pin Microprocessor Reset Circuits, 2.63V*	SOT-23	261.80/1,000		
LM810M3-2.93CT-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23	.84	.61	.44
LM810M3-2.93TR-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23	261.80/1,000		
LM810M3-3.08CT-ND	3-Pin Microprocessor Reset Circuits, 3.08V*	SOT-23	.84	.61	.44
LM810M3-3.08TR-ND	3-Pin Microprocessor Reset Circuits, 3.08V*	SOT-23	261.80/1,000		
LM810M3-4.00CT-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23	.84	.61	.44
LM810M3-4.00TR-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23	261.80/1,000		
LM810M3-4.38CT-ND	3-Pin Microprocessor Reset Circuits, 4.38V*	SOT-23	.84	.61	.44
LM810M3-4.38TR-ND	3-Pin Microprocessor Reset Circuits, 4.38V*	SOT-23	261.80/1,000		
LM810M3-4.63CT-ND	3-Pin Microprocessor Reset Circuits, 4.63V*	SOT-23	.84	.61	.44
LM810M3-4.63TR-ND	3-Pin Microprocessor Reset Circuits, 4.63V*	SOT-23	261.80/1,000		
LM828M5CT-ND	Switched Capacitor Voltage Converter*	SOT-23-5	1.24	.91	.66
LM828M5TR-ND	Switched Capacitor Voltage Converter*	SOT-23-5	429.00/1,000		
LM828M5XTR-ND	Switched Capacitor Voltage Converter	SOT-23-5	1262.25/3,000		
LM833M-ND	Dual Audio Op Amp*	8-SOIC	.94	.69	.50
LM833MXTR-ND	Dual Audio Op Amp*	8-SOIC	796.88/2,500		
LM833MMCT-ND	Dual Audio Op Amp*	8-MSOP	.94	.69	.50
LM833MMTR-ND	Dual Audio Op Amp*	8-MSOP	325.00/1,000		
LM833NNS-ND	Dual Audio Op Amp*	8-Dip	.94	.69	.50
LM837M-ND	Low Noise Quad Op Amp*	14-SOIC	1.84	1.35	.98
LM837MXCT-ND	Low Noise Quad Op Amp*	14-SOIC	1.84	1.35	.98
LM837MXTR-ND	Low Noise Quad Op Amp*	14-SOIC	1561.88/2,500		
LM837N-ND	Low Noise Quad Op Amp*	14-Dip	1.55	1.15	.85
LM1036M-ND	Tone/Volume/Balance Circuit*	20-SOIC	3.07	2.28	1.69
LM1036N-ND	Dual DC Operational Tone/Volume/Balance Circuit	20-Dip	2.55	1.94	1.48
LM1084IS-ADJ-ND	Adjustable Voltage 5A Low Dropout Positive Regulator*	TO-263	3.15	2.40	1.83
LM1084IS-3.3-ND	3.3V, 5A LDO Positive Regulator*	TO-263	3.15	2.40	1.83
LM1084IS-5.0-ND	5V, 5A LDO Positive Regulator*	TO-263	3.15	2.40	1.83
LM1084IS-12-ND	12V, 5A LDO Positive Regulator*	TO-263	3.15	2.40	1.83
LM1084IT-ADJ-ND	Adjustable Voltage 5A LDO Positive Regulator*	TO-220	3.13	2.38	1.82
LM1084IT-3.3-ND	3.3V, 5A LDO Positive Regulator*	TO-220	3.13	2.38	1.82
LM1084IT-5.0-ND	5V, 5A LDO Positive Regulator*	TO-220	3.13	2.38	1.82
LM1084IT-12-ND	12V, 5A LDO Positive Regulator*	TO-220	3.13	2.38	1.82
LM1085IS-ADJ-ND	Adjustable Voltage 3A Low Dropout Positive Regulator*	TO-263	3.00	2.23	1.65
LM1085IS-3.3-ND	3.3V, 3A LDO Positive Regulator*	TO-263	3.00	2.23	1.65
LM1085IS-5.0-ND	5V, 3A LDO Positive Regulator*	TO-263	3.00	2.23	1.65
LM1085IS-12-ND	12V, 3A LDO Positive Regulator*	TO-263	3.00	2.23	1.65
LM1085ISX-12CT-ND	12V, 3A LDO Positive Regulator*	TO-263	3.00	2.23	1.65
LM1085ISX-12TR-ND	12V, 3A LDO Positive Regulator*	TO-263	629.85/500		
LM1085IT-ADJ-ND	Adjustable Voltage 3A LDO Positive Regulator*	TO-220	2.98	2.22	1.64
LM1085IT-3.3-ND	3.3V, 3A LDO Positive Regulator*	TO-220	2.98	2.22	1.64
LM1085IT-5.0-ND	5V, 3A LDO Positive Regulator*	TO-220	2.98	2.22	1.64
LM1085IT-12-ND	12V, 3A LDO Positive Regulator*	TO-220	2.98	2.22	1.64
LM1086CS-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator*	TO-263	2.42	1.80	1.33
LM1086CS-2.5-ND	2.5V, 1.5A LDO Positive Regulator*	TO-263	2.42	1.80	1.33
LM1086CS-2.85-ND	2.85V, 1.5A LDO Positive Regulator*	TO-263	2.42	1.80	1.33
LM1086CS-3.3-ND	3.3V, 1.5A LDO Positive Regulator*	TO-263	2.42	1.80	1.33
LM1086CS-5.0-ND	5V, 1.5A LDO Positive Regulator*	TO-263	2.42	1.80	1.33
LM1086CT-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator*	TO-220	2.42	1.80	1.33
LM1086CT-2.85-ND	2.85V, 1.5A LDO Positive Regulator*	TO-220	2.42	1.80	1.33
LM1086CT-3.3-ND	3.3V, 1.5A LDO Positive Regulator*	TO-220	2.42	1.80	1.33
LM1086CT-5.0-ND	5V, 1.5A LDO Positive Regulator*	TO-220	2.42	1.80	1.33
LM1086IS-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator*	TO-263	2.42	1.80	1.33
LM1086IS-3.3-ND	3.3V, 1.5A LDO Positive Regulator*	TO-263	2.42	1.80	1.33
LM1086IS-5.0-ND	5V, 1.5A LDO Positive Regulator*	TO-263	2.42	1.80	1.33
LM1086IT-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator*	TO-220	2.42	1.80	1.33
LM1086IT-2.85-ND	2.85V, 1.5A LDO Positive Regulator	TO-220	2.42	1.80	1.33
LM1086IT-3.3-ND	3.3V, 1.5A LDO Positive Regulator*	TO-220	2.42	1.80	1.33
LM1086IT-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-220	2.42	1.80	1.33
LM1117DT-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator*	TO-252	1.69	1.25	.91
LM1117DT-2.5-ND	2.5V, 800mA LDO Linear Regulator*	TO-252	1.69	1.25	.91
LM1117DT-2.85-ND	2.85V, 800mA LDO Linear Regulator	TO-252	1.69	1.25	.91
LM1117DT-3.3-ND	3.3V, 800mA LDO Linear Regulator*	TO-252	1.69	1.25	.91
LM1117DT-5.0-ND	5V, 800mA LDO Linear Regulator*	TO-252	1.69	1.25	.91
LM1117DTX-3.3TR-ND	3.3V, 800mA LDO Linear Regulator*	TO-252	1437.56/2,500		
LM1117IDT-3.3-ND	3.3V, 800mA LDO Linear Regulator*	TO-252	1.69	1.25	.91
LM1117IDT-5.0-ND	5.0V, 800mA LDO Linear Regulator*	TO-252	1.69	1.25	.91
LM1117IMP-ADJCT-ND	Adjustable Voltage 800mA LDO Linear Regulator*	SOT-223	1.31	.96	.70
LM1117IMP-ADJTR-ND	Adjustable Voltage 800mA LDO Linear Regulator*	SOT-223	453.70/1,000		
LM1117IMP-3.3CT-ND	3.3V, 800mA LDO Linear Regulator*	SOT-223	1.31	.96	.70
LM1117IMP-3.3TR-ND	3.3V, 800mA LDO Linear Regulator*	SOT-223	453.70/1,000		
LM1117IMP-5.0CT-ND	5.0V, 800mA LDO Linear Regulator*	SOT-223	1.31	.96	.70
LM1117IMP-5.0TR-ND	5.0V, 800mA LDO Linear Regulator*	SOT-223	453.70/1,000		
LM1117MP-ADJCT-ND	Adjustable Voltage 800mA LDO Linear Regulator*	SOT-223	1.31	.96	.70
LM1117MP-ADJTR-ND	Adjustable Voltage 800mA LDO Linear Regulator*	SOT-223	453.70/1,000		
LM1117MP-1.8CT-ND	1.8V, 800mA LDO Linear Regulator*	SOT-223	1.31	.96	.70
LM1117MP-1.8TR-ND	1.8V, 800mA LDO Linear Regulator*	SOT-223	453.70/1,000		
LM1117MP-2.85CT-ND	2.85V, 800mA LDO Linear Regulator	SOT-223	1.31	.96	.70
LM1117MP-2.85TR-ND	2.85V, 800mA LDO Linear Regulator	SOT-223	453.70/1,000		
LM1117MP-3.3CT-ND	3.3V, 800mA LDO Regulator*	SOT-223	1.31	.96	.70

***** ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM1117MP-3.3TR-ND	3.3V, 800mA LDO Regulator*	SOT-223	453.70/1,000		
LM1117MP-5.0CT-ND	5V, 800mA LDO Linear Regulator*	SOT-223	1.31	.96	.70
LM1117MP-5.0TR-ND	5V, 800mA LDO Linear Regulator*	SOT-223	453.70/1,000		
LM1117MPX-2.5CT-ND	2.5V, 800mA LDO Linear Regulator*	SOT-223	1.57	1.14	.83
LM1117MPX-2.5TR-ND	2.5V, 800mA LDO Linear Regulator*	SOT-223	907.40/2,000		
LM1117MPX-3.3CT-ND	3.3V, 800mA LDO Linear Regulator*	SOT-223	1.31	.96	.70
LM1117MPX-3.3TR-ND	3.3V, 800mA LDO Linear Regulator*	SOT-223	907.40/2,000		
LM1117MPX-5.0CT-ND	5V, 800mA LDO Linear Regulator*	SOT-223	1.31	.96	.70
LM1117MPX-5.0TR-ND	5V, 800mA LDO Linear Regulator*	SOT-223	907.40/2,000		
LM1117S-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator*	TO-263	1.68	1.25	.92
LM1117T-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator*	TO-220	1.66	1.24	.92
LM1117T-2.85-ND	2.85V, 800mA LDO Linear Regulator	TO-220	1.66	1.24	.92
LM1117T-3.3-ND	3.3V, 800mA LDO Linear Regulator*	TO-220	1.66	1.24	.92
LM1117T-5.0-ND	5V, 800mA LDO Linear Regulator*	TO-220	1.66	1.24	.92
LM1246AAC/NA-ND	150MHz, I^{2}C Compatible RGB Preamp*	24-Dip	3.20	2.44	1.86
LM1269DNA-ND	110MHz, I^{2}C Compatible RGB Video Amp System*	24-Dip	2.51	1.87	1.38
LM1269NA-ND	110MHz, I^{2}C Compatible RGB Video Amp System*	24-Dip	2.39	1.78	1.31
LM1458M-ND	Dual Op Amp*	8-SOIC	1.04	.75	.55
LM1458MXCT-ND	Dual Op Amp*	8-SOIC	1.04	.75	.55
LM1458MXTR-ND	Dual Op Amp*	8-SOIC	764.75/2,500		
LM1458NNS-ND	Dual Op Amp*	8-Dip	.99	.73	.53
LM1572MTC-3.3-ND	3.3V, 1.5A, 500kHz Buck Voltage Regulator*	16-TSSOP	3.53	2.68	2.05
LM1572MTC-5.0-ND	5V, 1.5A, 500kHz Buck Voltage Regulator*	16-TSSOP	3.53	2.68	2.05
LM1572MTC-ADJ-ND	Adj., 1.5A, 500kHz Buck Voltage Regulator	16-TSSOP	2.93	2.23	1.70
LM1770SMFCT-ND	Low Voltage Synchronous Buck Controller	SOT-23-5	2.36	1.75	1.30
LM1770SMFTR-ND	Low Voltage Synchronous Buck Controller*	SOT-23-5	972.80/1,000		
LM1770TMFCT-ND	Low Voltage Synchronous Buck Controller*	SOT-23-5	2.36	1.75	1.30
LM1770TMFTR-ND	Low Voltage Synchronous Buck Controller*	SOT-23-5	972.80/1,000		
LM1770UMFCT-ND	Low Voltage Synchronous Buck Controller*	SOT-23-5	2.36	1.75	1.30
LM1770UMFTR-ND	Low Voltage Synchronous Buck Controller*	SOT-23-5	972.80/1,000		
LM1771SMMCT-ND	Low Voltage Synchronous Buck Controller*	8-MSOP	2.92	2.17	1.60
LM1771SMMTR-ND	Low Voltage Synchronous Buck Controller*	8-MSOP	1036.80/1,000		
LM1771TMMCT-ND	Low Voltage Synchronous Buck Controller*	8-MSOP	2.92	2.17	1.60
LM1771TMMTR-ND	Low Voltage Synchronous Buck Controller*	8-MSOP	1036.80/1,000		
LM1771UMMCT-ND	Low Voltage Synchronous Buck Controller*	8-MSOP	2.92	2.17	1.60
LM1771UMMTR-ND	Low Voltage Synchronous Buck Controller*	8-MSOP	1036.80/1,000		
LM1881MXTR-ND	Video Synchronous Separator*	8-SOIC	3656.25/2,500		
LM1881N-ND	Video Synchronous Separator*	8-Dip	2.93	2.23	1.70
LM1894M-ND	Dynamic Noise Reduction System*	14-SOIC	2.39	1.78	1.31
LM1949N-ND	476Kbytes, Injector Drive Controller*	8-Dip	4.35	3.31	2.53
LM1971M-ND	Digitally Controlled 62dB Audio Attenuator with Mute*	8-SOIC	3.04	2.26	1.67
LM1971N-ND	Digitally Controlled 62dB Audio Attenuator with Mute*	8-Dip	2.65	2.02	1.54
LM1972M-ND	2-Channel 78dB Audio Attenuator with Mute*	20-SOIC	4.25	3.23	2.47
LM1973M-ND	MicroPot™ 3-Ch. 76dB Audio Attenuator with Mute*	20-SOIC	2255.40/1,000		
LM2422TE-ND	Mono 220V, 3-Channel, 30MHz CRT DTV Driver*	TO-220-11	8.04	6.36	5.10
LM2445TA-ND	Monolithic Triple 7.5ns CRT Driver	TO-220-9	2.64	1.96	1.45
LM2463TA-ND	Monolithic Triple 4nS CRT Driver*	TO-220-11	5.63	4.45	3.57
LM2469TA-ND	Monolithic Triple 9nS High Gain CRT Driver	TO-220-9	2.48	1.84	1.36
LM2480NA-ND	80V Triple Bias Clamp*	8-Dip	1.44	1.06	.77
LM25005MH-ND	42V, 2.5A Buck Switching Regulator*	20-TSSOP	5.23	3.98	3.04
LM25007MMCT-ND	42V, 0.5A Buck Switching Regulator*	8-MSOP	3.09	2.30	1.70
LM25007MMTR-ND	42V, 0.5A Buck Switching Regulator*	8-MSOP	1277.44/1,000		
LM2524DN-ND	Regulator Pulse Width Module*	16-Dip	1.67	1.25	.92
LM2574HVM-ADJ-ND	SIMPLE SWITCHER® 0.5A Buck Voltage Regulator*	14-SOIC	3.63	2.76	2.11
LM2574HVM-3.3-ND	3.3V, SIMPLE SWITCHER® 0.5A Buck Volt. Regulator*	14-SOIC	3.63	2.76	2.11
LM2574HVM-5.0-ND	5V, 500mA Buck Switch Regulator*	14-SOIC	3.63	2.76	2.11
LM2574HVM-12-ND	12V, SIMPLE SWITCHER® 0.5A Buck Volt. Regulator*	14-SOIC	3.63	2.76	2.11
LM2574HVN-ADJ-ND	Adjustable Voltage 500mA Buck Switch Regulator*	8-Dip	4.85	3.69	2.82
LM2574HVN-3.3-ND	3.3V, SIMPLE SWITCHER® 0.5A Buck Voltage Regulator*	8-Dip	4.85	3.69	2.82
LM2574HVN-5.0-ND	5V, 500mA Buck Switch Regulator*	8-Dip	4.85	3.69	2.82
LM2574HVN-12-ND	12V, 500mA Buck Switch Regulator*	8-Dip	4.85	3.69	2.82
LM2574M-3.3-ND	3.3V, 500mA Buck Switch Regulator*	14-SOIC	2.47	1.84	1.36
LM2574M-5.0-ND	5V, 500mA Buck Switch Regulator*	14-SOIC	2.47	1.84	1.36
LM2574MX-5.0TR-ND	5V, 500mA Buck Switch Regulator*	14-SOIC	1018.88/1,000		
LM2574M-12-ND	12V, 500mA Buck Switch Regulator*	14-SOIC	2.47	1.84	1.36
LM2574MX-ADJTR-ND	Adjustable 500mA Buck Switch Regulator	14-SOIC	1018.88/1,000		
LM2574N-ADJ-ND	Adjustable 500mA Buck Switch Regulator*	8-Dip	2.47	1.84	1.36
LM2574N-5.0-ND	5V, 500mA Buck Switch Regulator*	8-Dip	2.47	1.84	1.36
LM2574N-12-ND	12V, 500mA Buck Switch Regulator*	8-Dip	2.47	1.84	1.36
LM2574N-15-ND	15V, 500mA Buck Switch Regulator*	8-Dip	2.47	1.84	1.36
LM2575HVM-ADJ-ND	Adjustable 1A Buck Switch Regulator*	24-SOIC	4.48	3.41	2.60
LM2575HVM-12-ND	12V, SIMPLE SWITCHER® 1A Buck Voltage Regulator	24-SOIC	4.48	3.41	2.60
LM2575HVN-5.0-ND	5V, 1A Buck Switch Regulator*	16-Dip	4.48	3.41	2.60
LM2575HVS-ADJ-ND	Adj., SIMPLE SWITCHER® 1A Buck Voltage Regulator*	TO-263-5	4.48	3.41	2.60
LM2575HVS-3.3-ND	3.3V, SIMPLE SWITCHER® 1A Buck Voltage Reg.*	TO-263-5	4.48	3.41	2.60
LM2575HVS-5.0-ND	5V, SIMPLE SWITCHER® 1A Buck Voltage Regulator*	TO-263-5	4.48	3.41	2.60
LM2575HVS-12-ND	12V, SIMPLE SWITCHER® 1A Buck Voltage Regulator*	TO-263-5	4.48	3.41	2.60
LM2575HVS-15-ND	15V, SIMPLE SWITCHER® 1A Buck Voltage Regulator*	TO-263-5	4.48	3.41	2.60
LM2575HVT-ADJ-ND	Adjustable 1A Buck Switch Regulator*	TO-220	5.20	3.96	3.02
LM2575HVT-3.3-ND	3.3V, SIMPLE SWITCHER® 1A Buck Voltage Regulator	TO-220-5	5.20	3.96	3.02
LM2575HVT-5.0-ND	5V, 1A Buck Switch Regulator, High Voltage*	TO-220	5.20	3.96	3.02
LM2575HVT-12-ND	12V, 1A Buck Switch Regulator*	TO-220	5.20	3.96	3.02
LM2575HVT-15-ND	15V, 1A Buck Switch Regulator*	TO-220	5.20	3.96	3.02
LM2575M-3.3-ND	3.3V, SIMPLE SWITCHER® 1A Buck Voltage Regulator*	24-SOIC	2.58	1.96	1.50
LM2575M-5.0-ND	5V, 1A Buck Switch Regulator*	24-SOIC	2.58	1.96	1.50
LM2575M-12-ND	12V, SIMPLE SWITCHER® 1A Buck Voltage Regulator*	24-SOIC	2.58	1.96	1.50
LM2575M-15-ND	15V, SIMPLE SWITCHER® 1A Buck Voltage Regulator	24-SOIC	2.58	1.96	1.50
LM2575N-ADJ-ND	Adjustable 1A Buck Switch Regulator*	16-Dip	3.43	2.61	1.99
LM2575N-5.0-ND	5V, 1A Buck Switch Regulator*	16-Dip	3.43	2.61	1.99
LM2575N-12-ND	12V, 1A Buck Switch Regulator*	16-Dip	3.43	2.61	1.99
LM2575S-ADJ-ND	Adj., SIMPLE SWITCHER® 1A Buck Voltage Regulator*	TO-263-5	2.90	2.21	1.69
LM2575S-3.3-ND	3.3V, SIMPLE SWITCHER® 1A Buck Voltage Reg.*	TO-263-5	2.90	2.21	1.69
LM2575S-5.0-ND	5V, SIMPLE SWITCHER® 1A Buck Voltage Regulator*	TO-263-5	2.90	2.21	1.69
LM2575S-12-ND	12V, SIMPLE SWITCHER® 1A Buck Voltage Regulator*	TO-263-5	2.90	2.21	1.69
LM2575T-ADJNS-ND	Adjustable 1A Buck Switch Regulator*	TO-220	2.58	1.96	1.50
LM2575T-3.3-ND	3.3V, 1A Buck Switch Regulator*	TO-220	2.58	1.96	1.50
LM2575T-5.0-ND	5V, 1A Buck Switch Regulator*	TO-220	2.58	1.96	1.50
LM2575T-12-ND	12V, 1A Buck Switch Regulator*	TO-220	2.58	1.96	1.50
LM2575T-15-ND	15V, 1A Buck Switch Regulator*	TO-220	2.58	1.96	1.50
LM2576HVS-ADJ-ND	Adjustable 3A Buck Switch Regulator*	TO-263	5.85	4.45	3.40
LM2576HVS-3.3-ND	3.3V, SIMPLE SWITCHER® 3A Buck Voltage Reg.*	TO-263-5	5.85	4.45	3.40
LM2576HVS-5.0-ND	5V, SIMPLE SWITCHER® 3A Buck Voltage Regulator*	TO-263-5	5.85	4.45	3.40
LM2576HVT-ADJ-ND	Adjustable 3A Buck Switch Regulator*	TO-220-5	5.85	4.45	3.40
LM2576HVT-3.3-ND	3.3V, SIMPLE SWITCHER® 3A Buck Voltage Reg.*	TO-220-5	5.85	4.45	3.40
LM2576HVT-5.0-ND	5V, 3A Buck Regulator High Voltage*	TO-220	5.85	4.45	3.40
LM2576HVT-12-ND	12V, 3A Buck Regulator High Voltage*	TO-220	5.85	4.45	3.40
LM2576HVT-15-ND	15V, 3A Buck Regulator High Voltage*	TO-220	5.85	4.45	3.40
LM2576S-ADJ-ND	Adj., SIMPLE SWITCHER® 3A Buck Voltage Regulator*	TO-263-5	3.23	2.46	1.88
LM2576S-3.3-ND	3.3V, SIMPLE SWITCHER® 3A Buck Voltage Reg.*	TO-263-5	3.23	2.46	1.88
LM2576S-5.0-ND	5V, SIMPLE SWITCHER® 3A Buck Voltage Regulator*	TO-263-5	3.23	2.46	1.88
LM2576S-12-ND	12V, SIMPLE SWITCHER® 3A Buck Voltage Regulator*	TO-263-5	3.23	2.46	1.88
LM2576S-15-ND	15V, SIMPLE SWITCHER® 3A Buck Voltage Regulator*	TO-263-5	3.23	2.46	1.88
LM2576T-ADJNS-ND	Adjustable 3A Buck Voltage Regulator*	TO-220-5	3.20	2.44	1.86
LM2576T-3.3NS-ND	3.3V, SIMPLE SWITCHER® 3A Buck Voltage Reg.*	TO-220-5	3.20	2.44	1.86
LM2576T-5.0-ND	5V, 3A Buck Switch Regulator*	TO-220	3.20	2.44	1.86
LM2576T-12-ND	12V, 3A Buck Simple Switch Regulator*	TO-220	3.20	2.44	1.86
LM2576T-15-ND	15V, SIMPLE SWITCHER® 3A Buck Voltage Regulator*	TO-220-5	3.20	2.44	1.86
LM2577M-ADJ-ND	Adjustable 3A Step-Up Switch Regulator*	24-SOIC	5.57	4.40	3.53
LM2577N-ADJ-ND	Adjustable 3A Step-Up Switch Regulator*	16-Dip	5.57	4.40	3.53
LM2577N-12-ND	12V, 3A Step-Up Switch Regulator*	16-Dip	5.57	4.40	3.53
LM2577N-15-ND	15V, 3A Step-Up Switch Regulator*	16-Dip	5.57	4.40	3.53
LM2577S-ADJ-ND	Adj. SIMPLE SWITCHER® Step-Up Voltage Regulator*	TO-263-5	5.57	4.40	3.53
LM2577S-12-ND	12V, SIMPLE SWITCHER® Step-Up Voltage Regulator*	TO-263-5	5.57	4.40	3.53
LM2577S-15-ND	15V, SIMPLE SWITCHER® Step-Up Voltage Regulator*	TO-263-5	5.57	4.40	3.53
LM2577T-ADJ-ND	Adjustable 3A Step Up Switch Voltage Regulator*	TO-220-5	5.57	4.40	3.53
LM2577T-12-ND	12V, 3A Step-Up Switch Regulator*	TO-220	5.57	4.40	3.53
LM2577T-15-ND	15V, 3A Step-Up Switch Regulator*	TO-220	5.57	4.40	3.53
LM2578AM-ND	750mA Switching Regulator*	8-SOIC	3.03	2.30	1.76
LM2578AN-ND	750mA Switching Regulator*	8-Dip	3.03	2.30	1.76
LM2585S-ADJ-ND	Adj. SIMPLE SWITCHER® 3A Flyback Regulator*	TO-263-5	6.32	5.00	4.01
LM2585S-3.3-ND	3.3V, SIMPLE SWITCHER® 3A Flyback Regulator	TO-263-5	6.32	5.00	4.01
LM2585S-5.0-ND	5V, SIMPLE SWITCHER® 3A Flyback Regulator*	TO-263-5	6.32	5.00	4.01
LM2585S-12-ND	12V, SIMPLE SWITCHER® 3A Flyback Regulator*	TO-263-5	6.32	5.00	4.01
LM2585T-ADJ-ND	Adj. SIMPLE SWITCHER® 3A Flyback Voltage Reg.*	TO-220-5	6.32	5.00	4.01
LM2585T-3.3-ND	3.3V, SIMPLE SWITCHER® 3A Flyback Regulator	TO-220-5	6.32	5.00	4.01
LM2585T-5.0-ND	5V, SIMPLE SWITCHER® 3A Flyback Regulator*	TO-220-5	6.32	5.00	4.01
LM2585T-12-ND	12V, SIMPLE SWITCHER® 3A Flyback Regulator*	TO-220-5	6.32	5.00	4.01
LM2586S-ADJ-ND	Adj. SIMPLE SWITCHER® 3A Flyback Reg. with SD*	TO-263-7	6.53	5.17	4.14
LM2586S-3.3-ND	3.3V SIMPLE SWITCHER® 3A Flyback Reg. with SD	TO-263-7	6.53	5.17	4.14
LM2586S-5.0-ND	5V, SIMPLE SWITCHER® 3A Flyback Reg. with SD*	TO-263-7	6.53	5.17	4.14
LM2586S-12-ND	12V, SIMPLE SWITCHER® 3A Flyback Reg. with SD*	TO-263-7	6.53	5.17	4.14
LM2586T-ADJ-ND	Adj. SIMPLE SWITCHER® 3A Flyback Reg. with SD*	TO-220-7	6.53	5.17	4.14
LM2586T-3.3-ND	3.3V, SIMPLE SWITCHER® 3A Flyback Reg. with SD	TO-220-7	6.53	5.17	4.14
LM2586T-5.0-ND	5V, SIMPLE SWITCHER® 3A Flyback Reg. with SD	TO-220-7	6.53	5.17	4.14
LM2586T-12-ND	12V, SIMPLE SWITCHER® 3A Flyback Reg. with SD*	TO-220-7	6.53	5.17	4.14
LM2587EVAL-ND	Evaluation Board for LM2587	—	43.80	—	—
LM2587S-ADJ-ND	Adj. SIMPLE SWITCHER® 5A Flyback Regulator*	TO-263-5	8.32	6.58	5.27
LM2587S-3.3-ND	3.3V, SIMPLE SWITCHER® 5A Flyback Regulator	TO-263-5	8.32	6.58	5.27
LM2587S-5.0-ND	5V, SIMPLE SWITCHER® 5A Flyback Regulator*	TO-263-5	8.32	6.58	5.27
LM2587T-ADJ-ND	Adj. SIMPLE SWITCHER® 5A Flyback Regulator*	TO-220-5	8.32	6.58	5.27
LM2587T-3.3-ND	3.3V, SIMPLE SWITCHER® 5A Flyback Regulator	TO-220-5	8.32	6.58	5.27
LM2587T-5.0-ND	5V, SIMPLE SWITCHER® 5A Flyback Regulator*	TO-220-5	8.32	6.58	5.27
LM2587T-12-ND	12V, SIMPLE SWITCHER® 5A Flyback Regulator*	TO-220-5	8.32	6.58	5.27
LM2588S-ADJ-ND	Adj. Volt. 5A SIMPLE SWITCHER®, Flyback Regulator*	TO-263	8.99	7.11	5.70
LM2588S-3.3-ND	3.3V, SIMPLE SWITCHER® 5A Flyback Regulator*	TO-263-7	8.99	7.11	5.70
LM2588S-5.0-ND	5V, SIMPLE SWITCHER® 5A Flyback Regulator*	TO-263-7	8.99	7.11	5.70
LM2588S-12-ND	12V, SIMPLE SWITCHER® 5A Flyback Regulator*	TO-263	8.99	7.11	5.70
LM2588T-ADJ-ND	Adj. SIMPLE SWITCHER® 5A Flyback Regulator*	TO-220-7	8.99	7.11	5.70
LM2588T-5.0-ND	5V, SIMPLE SWITCHER® 5A Flyback Regulator*	TO-220-7	8.99	7.11	5.70
LM2588T-12-ND	12V, SIMPLE SWITCHER® 5A Flyback Regulator*	TO-220-7	8.99	7.11	5.70
LM2590HVS-ADJ-ND	Adj., SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-263-7	5.38	4.09	3.12
LM2590HVS-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator	TO-263-7	5.38	4.09	3.12
LM2590HVS-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-263-7	5.38	4.09	3.12
LM2590HVT-ADJ-ND	Adj., SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-220-7	5.38	4.09	3.12
LM2590HVT-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator	TO-220-7	5.38	4.09	3.12
LM2590HVT-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator	TO-220-7	5.38	4.09	3.12
LM2591HVS-ADJ-ND	Adj., SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-263-5	5.10	3.88	2.96
LM2591HVS-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-263-5	5.10	3.88	2.96
LM2591HVS-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-263-5	5.10	3.88	2.96
LM2591HVT-ADJ-ND	Adj., SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-220-5	5.10	3.88	2.96
LM2591HVT-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-220-5	5.10	3.88	2.96
LM2591HVT-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-220-5	5.10	3.88	2.96
LM2592HVS-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 2A, Buck Voltage Regulator*	TO-263-5	6.10	4.64	3.54
LM2592HVS-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 2A, Buck Voltage Regulator	TO-263-5	6.10	4.64	3.54
LM2592HVS-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 2A, Buck Voltage Regulator*	TO-263-5	6.10	4.64	3.54
LM2592HVT-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 2A, Buck Voltage Regulator*	TO-220-5	6.10	4.64	3.54
LM2592HVT-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 2A, Buck Voltage Regulator*	TO-220-5	6.10	4.64	3.54
LM2592HVT-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 2A, Buck Voltage Regulator*	TO-220-5	6.10	4.64	3.54
LM2593HVS-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz 2A, Buck Voltage Regulator*	TO-263-7	5.38	4.25	3.41
LM2593HVS-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 2A, Buck Voltage Regulator	TO-263-7	5.38	4.25	3.41
LM2593HVS-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 2A, Buck Voltage Regulator*	TO-263-7	5.38	4.25	3.41

* *RoHS Compliant*

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2593HVT-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 2A, Buck Voltage Regulator*	TO-220-7	5.38	4.25	3.41
LM2593HVT-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 2A, Buck Voltage Regulator	TO-220-7	5.38	4.25	3.41
LM2593HVT-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 2A, Buck Voltage Regulator	TO-220-7	5.38	4.25	3.41
LM2594HVM-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	4.63	3.52	2.69
LM2594HVM-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	4.63	3.52	2.69
LM2594HVM-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	4.63	3.52	2.69
LM2594HVM-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	4.63	3.52	2.69
LM2594HVN-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-Dip	4.63	3.52	2.69
LM2594HVN-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator	8-Dip	4.63	3.52	2.69
LM2594HVN-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-Dip	4.63	3.52	2.69
LM2594HVN-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator	8-Dip	4.63	3.52	2.69
LM2594M-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	3.05	2.32	1.77
LM2594M-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	3.05	2.32	1.77
LM2594M-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	3.05	2.32	1.77
LM2594M-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, Buck Voltage Regulator*	8-SOIC	3.05	2.32	1.77
LM2594MX-5.0TR-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A , Buck Voltage Regulator	8-SOIC	3812.50/2,500		
LM2594N-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-Dip	3.05	2.32	1.77
LM2594N-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-Dip	3.05	2.32	1.77
LM2594N-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-Dip	3.05	2.32	1.77
LM2594N-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-Dip	3.05	2.32	1.77
LM2595S-ADJ-ND	Adj., SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	TO-263-5	3.85	2.93	2.24
LM2595S-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-263-5	3.85	2.93	2.24
LM2595S-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-263-5	3.85	2.93	2.24
LM2595S-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-263-5	3.85	2.93	2.24
LM2595T-ADJ-ND	Adj., SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-220	3.85	2.93	2.24
LM2595T-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-220-5	3.85	2.93	2.24
LM2595T-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-220-5	3.85	2.93	2.24
LM2595T-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-220-5	3.85	2.93	2.24
LM2596S-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-263-5	4.30	3.27	2.50
LM2596S-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-263-5	4.30	3.27	2.50
LM2596S-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz 3A, Buck Voltage Regulator*	TO-263	4.30	3.27	2.50
LM2596S-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-263-5	4.30	3.27	2.50
LM2596SX-5.0TR-ND	5V, Power Converter 150kHz 3A Buck Voltage Regulator*	TO-263	1096.50/500		
LM2596T-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-220-5	4.30	3.27	2.50
LM2596T-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-220-5	4.30	3.27	2.50
LM2596T-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-220-5	4.30	3.27	2.50
LM2596T-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-220-5	4.30	3.27	2.50
LM2597HVM-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	4.75	3.61	2.76
LM2597HVM-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	4.75	3.61	2.76
LM2597HVM-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	4.75	3.61	2.76
LM2597HVM-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator	8-SOIC	4.75	3.61	2.76
LM2597HVN-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator	8-Dip	4.75	3.61	2.76
LM2597HVN-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator	8-Dip	4.75	3.61	2.76
LM2597HVN-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator	8-Dip	4.75	3.61	2.76
LM2597HVN-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator	8-Dip	4.75	3.61	2.76
LM2597M-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	3.78	2.87	2.19
LM2597M-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	3.78	2.87	2.19
LM2597M-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	3.78	2.87	2.19
LM2597M-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-SOIC	3.78	2.87	2.19
LM2597N-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-Dip	3.78	2.87	2.19
LM2597N-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator*	8-Dip	3.78	2.87	2.19
LM2597N-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator	8-Dip	3.78	2.87	2.19
LM2597N-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 0.5A, Buck Voltage Regulator	8-Dip	3.78	2.87	2.19
LM2598S-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz 1A, Buck Voltage Regulator*	TO-263-7	4.45	3.39	2.59
LM2598S-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-263-7	4.45	3.39	2.59
LM2598S-5.0-ND	5V, Power Converter, 150kHz, 1A, Buck Voltage Regulator*	TO-263	4.45	3.39	2.59
LM2598S-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator	TO-263-7	4.45	3.39	2.59
LM2598T-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator	TO-220-7	4.45	3.39	2.59
LM2598T-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator	TO-220-7	4.45	3.39	2.59
LM2598T-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator	TO-220-7	4.45	3.39	2.59
LM2598T-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 1A, Buck Voltage Regulator	TO-220-7	4.45	3.39	2.59
LM2599S-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-263-7	5.13	3.90	2.98
LM2599S-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-263-7	5.13	3.90	2.98
LM2599S-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-263-7	5.13	3.90	2.98
LM2599S-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-263-7	5.13	3.90	2.98
LM2599T-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-220-7	5.13	3.90	2.98
LM2599T-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter, 150kHz 3A, Buck Voltage Regulator*	TO-220-7	5.13	3.90	2.98
LM2599T-5.0-ND	5V, SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-220-7	5.13	3.90	2.98
LM2599T-12-ND	12V, SIMPLE SWITCHER® Power Converter, 150kHz, 3A, Buck Voltage Regulator*	TO-220-7	5.13	3.90	2.98
LM2611AMFCT-ND	1.4MHz Cuk Converter*	SOT-23-5	2.73	2.08	1.59
LM2611AMFTR-ND	1.4MHz Cuk Converter*	SOT-23-5	1373.40/1,000		
LM2611BMFCT-ND	1.4MHz Cuk Converter*	SOT-23-5	2.90	2.16	1.59
LM2611BMFTR-ND	1.4MHz Cuk Converter*	SOT-23-5	1196.80/1,000		
LM2612ABPCT-ND	400mA Sub-Miniature, Programmable, Buck DC-DC Converter	10-microSMD	3.33	2.53	1.93
LM2612ABPTR-ND	400mA Sub-Miniature, Programmable, Buck DC-DC Converter	10-microSMD	442.23/250		
LM2612ATLCT-ND	400mA Sub-Miniature, Programmable, Buck DC-DC Converter	10-microSMD	3.33	2.53	1.93
LM2612ATLTR-ND	400mA Sub-Miniature, Programmable, Buck DC-DC Converter	10-microSMD	442.23/250		
LM2619ATLCT-ND	500mA Buck DC-DC Converter	10-microSMD	2.67	1.98	1.47
LM2619ATLTR-ND	500mA Buck DC-DC Converter*	10-microSMD	290.25/250		
LM2619MTC-ND	500mA Buck DC-DC Converter*	14-TSSOP	2.85	2.17	1.66
LM2621MMCT-ND	Low Input Step-Up DC-DC Converter*	8-MSOP	1.98	1.47	1.09
LM2621MMTR-ND	Low Input Step-Up DC-DC Converter*	8-MSOP	816.64/1,000		
LM2622MM-ADJCT-ND	600kHz/1.3MHz Step-Up PWM DC-DC Converter*	8-MSOP	2.65	1.97	1.46
LM2622MM-ADJTR-ND	600kHz/1.3MHz Step-Up PWM DC-DC Converter*	8-MSOP	1094.40/1,000		
LM2623ALDCT-ND	Ratio Adaptive DC-DC Boost Converter	14-LLP	2.60	1.98	1.51
LM2623ALDTR-ND	Ratio Adaptive DC-DC Boost Converter	14-LLP	1310.40/1,000		
LM2623AMMCT-ND	General Purpose Low Vin, Low Ripple DC-DC Boost Converter*	8-MSOP	2.60	1.98	1.51
LM2623AMMTR-ND	General Purpose Low Vin, Low Ripple DC-DC Boost Converter*	8-MSOP	1310.40/1,000		
LM2623LDCT-ND	General Purpose Low Vin, Low Ripple DC-DC Boost Converter	14-LLP	2.56	1.91	1.41
LM2623LDTR-ND	General Purpose Low Vin, Low Ripple DC-DC Boost Converter*	14-LLP	1058.56/1,000		
LM2623MMCT-ND	General Purpose Low Vin, Low Ripple DC-DC Boost Converter*	8-MSOP	2.56	1.91	1.41
LM2623MMTR-ND	GP Low Vin, Low Ripple DC-DC Boost Converter*	8-MSOP	1058.56/1,000		
LM2633MTD-ND	2-Phase Sync. Triple Regulator Controller	48-TSSOP	6.18	4.70	3.59
LM2635M-ND	5-Bit Programmable Sync. Buck Regulator Controller	20-SOIC	3.40	2.59	1.98
LM2636M-ND	5-Bit Programmable Sync. Buck Regulator Controller*	20-SOIC	3.40	2.59	1.98
LM2636MTC-ND	5-Bit Programmable Sync. Buck Regulator Controller*	20-TSSOP	3.40	2.59	1.98
LM2637M-ND	Motherboard Power Supply Solution*	24-SOIC	4.48	3.41	2.60
LM2638M-ND	Motherboard Power Supply Solution	24-SOIC	4.48	3.41	2.60
LM2639M-ND	5-Bit Program, Hi Freq. Multiphase PWM Controller	24-SOIC	6.05	4.60	3.51
LM2640MTC-ADJ-ND	Dual Adj. Buck Switching Power Supply Controller, Switching Freq. 200kHz*	28-TSSOP	6.78	5.37	4.30
LM2641MTC-ADJ-ND	Dual Adj. Buck Switching Power Supply Controller, Switching Freq. 300kHz	28-TSSOP	7.14	5.65	4.53
LM2642MTC-ND	2-Phase Sync. Buck Switching Controller*	28-TSSOP	4.05	3.08	2.35
LM2645MTD-ND	Dual Output 2-Phase Switching Controller*	48-TSSOP	6.18	4.70	3.59
LM2647LQCT-ND	Dual Sync. Buck Regulator	28-LLP	4.53	3.44	2.63
LM2647LQTR-ND	Dual Sync. Buck Regulator*	28-LLP	2280.60/1,000		
LM2647MTC-ND	Dual Sync. Buck Regulator*	28-TSSOP	4.53	3.44	2.63
LM2650EVAL-ND	Evaluation Board for LM2650X	—	53.55	—	—
LM2650M-ADJ-ND	Synchronous Buck DC-DC Converter*	24-SOIC	7.27	5.75	4.61
LM2651MTC-ADJ-ND	Adj. 1.5A, High Efficiency Sync. Switching Regulator*	16-TSSOP	4.00	3.04	2.32
LM2651MTC-1.8-ND	1.8V, 1.5A, High Efficiency Sync. Switching Regulator*	16-TSSOP	4.00	3.04	2.32
LM2651MTC-2.5-ND	2.5V, 1.5A, High Efficiency Sync. Switching Regulator*	16-TSSOP	4.00	3.04	2.32
LM2651MTC-3.3-ND	3.3V, 1.5A, High Efficiency Sync. Switching Regulator*	16-TSSOP	4.00	3.04	2.32
LM2653MTC-ADJ-ND	Adj. 1.5A, High Efficiency Sync. Switching Regulator*	16-TSSOP	4.63	3.52	2.69
LM2655MTC-ADJ-ND	Adj. 2.5A, High Efficiency Sync. Switching Regulator*	16-TSSOP	4.00	3.04	2.32
LM2655MTC-3.3-ND	3.3V, 2.5A, High Efficiency Sync. Switching Regulator*	16-TSSOP	4.00	3.04	2.32
LM2657MTC-ND	Dual Sync. Buck Regulator Controller	28-TSSOP	4.15	3.16	2.41
LM2660M-ND	100mA, Switched Capacitor Converter*	8-SOIC	2.05	1.52	1.13
LM2661M-ND	100mA, Switched Capacitor Converter with Shutdown*	8-SOIC	2.05	1.52	1.13
LM2662M-ND	Switched Capacitor Voltage Converter*	8-SOIC	2.64	1.96	1.45
LM2663M-ND	Switched Capacitor Voltage Converter*	8-SOIC	2.64	1.96	1.45
LM2664M6CT-ND	Switched Capacitor Voltage Converter, 91% Eff.*	SOT-23-6	1.20	.88	.64
LM2664M6TR-ND	Switched Capacitor Voltage Converter, 91% Eff.*	SOT-23-6	416.00/1,000		

** RoHS Compliant*

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM2665M6CT-ND	Switched Capacitor Voltage Converter, 90% Eff.*	SOT-23-6	1.24	.91	.66
LM2665M6TR-ND	Switched Capacitor Voltage Converter, 90% Eff.*	SOT-23-6	429.00/1,000		
LM2670S-ADJ-ND	Adj. SIMPLE SWITCHER® High Efficiency 3A Buck Regulator with Sync.*	TO-263-7	4.70	3.58	2.73
LM2670S-3.3-ND	3.3V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator with Sync.*	TO-263-7	4.70	3.58	2.73
LM2670S-5.0-ND	5V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator with Sync.*	TO-263-7	4.70	3.58	2.73
LM2670S-12-ND	12V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator with Sync.*	TO-263-7	4.70	3.58	2.73
LM2670SD-3.3CT-ND	3.3V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator with Sync.	14-LLP	4.70	3.58	2.73
LM2670SD-3.3TR-ND	3.3V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator with Sync.	14-LLP	625.10/250		
LM2670SD-5.0CT-ND	5V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator with Sync.	14-LLP	4.70	3.58	2.73
LM2670SD-5.0TR-ND	5V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator with Sync.	14-LLP	625.10/250		
LM2670SD-12CT-ND	12V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator with Sync.	14-LLP	4.70	3.58	2.73
LM2670SD-12TR-ND	12V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator with Sync.	14-LLP	625.10/250		
LM2670SD-ADJCT-ND	Adj., SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator with Sync.*	14-LLP	4.70	3.58	2.73
LM2670SD-ADJTR-ND	Adj., SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator with Sync.*	14-LLP	625.10/250		
LM2670T-ADJ-ND	Adj. SIMPLE SWITCHER® High Efficiency 3A Buck Regulator with Sync.*	TO-220-7	4.70	3.58	2.73
LM2670T-3.3-ND	3.3V, SIMPLE SWITCHER® High Efficiency 3A Buck Regulator with Sync.*	TO-220-7	4.70	3.58	2.73
LM2670T-5.0-ND	5V, SIMPLE SWITCHER® High Efficiency 3A Buck Regulator with Sync.*	TO-220-7	4.70	3.58	2.73
LM2670T-12-ND	12V, SIMPLE SWITCHER® High Efficiency 3A Buck Regulator with Sync.	TO-220-7	4.70	3.58	2.73
LM2671LD-ADJCT-ND	Adj. SIMPLE SWITCHER® High Efficiency 500mA Buck Voltage Regulator	16-LLP	3.28	2.49	1.90
LM2671LD-ADJTR-ND	Adj. SIMPLE SWITCHER® High Efficiency 500mA Buck Voltage Regulator	16-LLP	1650.60/1,000		
LM2671LD-3.3CT-ND	3.3V, SIMPLE SWITCHER® High Efficiency 500mA Buck Voltage Regulator	16-LLP	3.28	2.49	1.90
LM2671LD-3.3TR-ND	3.3V, SIMPLE SWITCHER® High Efficiency 500mA Buck Voltage Regulator	16-LLP	1650.60/1,000		
LM2671LD-5.0CT-ND	5V, SIMPLE SWITCHER® High Efficiency 500mA Buck Voltage Regulator	16-LLP	3.28	2.49	1.90
LM2671LD-5.0TR-ND	5V, SIMPLE SWITCHER® High Efficiency 500mA Buck Voltage Regulator	16-LLP	1650.60/1,000		
LM2671LD-12CT-ND	12V, SIMPLE SWITCHER® High Efficiency 500mA Buck Voltage Regulator	16-LLP	3.28	2.49	1.90
LM2671LD-12TR-ND	12V, SIMPLE SWITCHER® High Efficiency 500mA Buck Voltage Regulator	16-LLP	1650.60/1,000		
LM2671M-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-SOIC	3.28	2.49	1.90
LM2671M-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671M-5.0-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-SOIC	3.28	2.49	1.90
LM2671M-12-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-SOIC	3.28	2.49	1.90
LM2671N-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter High Effiecency 500mA Buck Voltage Regulator*	8-Dip	3.28	2.49	1.90
LM2671N-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator	8-Dip	3.28	2.49	1.90
LM2671N-5.0-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-Dip	3.28	2.49	1.90
LM2671N-12-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-Dip	3.28	2.49	1.90
LM2672LD-ADJCT-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator*	16-LLP	4.18	3.18	2.43
LM2672LD-ADJTR-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator*	16-LLP	2104.20/1,000		
LM2672LD-3.3CT-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	4.18	3.18	2.43
LM2672LD-3.3TR-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	2104.20/1,000		
LM2672LD-5.0CT-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	4.18	3.18	2.43
LM2672LD-5.0TR-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	2104.20/1,000		
LM2672LD-12CT-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	4.18	3.18	2.43
LM2672LD-12TR-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	2104.20/1,000		
LM2672M-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator*	8-SOIC	4.18	3.18	2.43
LM2672M-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator*	8-SOIC	4.18	3.18	2.43
LM2672M-5.0-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator*	8-SOIC	4.18	3.18	2.43
LM2672M-12-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator*	8-SOIC	4.18	3.18	2.43
LM2672N-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2672N-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2672N-5.0-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator*	8-Dip	4.18	3.18	2.43
LM2672N-12-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2673S-ADJ-ND	Adj. SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit*	TO-263-7	4.70	3.58	2.73
LM2673S-3.3-ND	3.3V, SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit*	TO-263-7	4.70	3.58	2.73
LM2673S-5.0-ND	5V, SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit*	TO-263-7	4.70	3.58	2.73
LM2673S-12-ND	12V, SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673SD-3.3CT-ND	3.3V, SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	4.70	3.58	2.73
LM2673SD-3.3TR-ND	3.3V, SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	625.10/250		
LM2673SD-5.0CT-ND	5V, SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	4.70	3.58	2.73
LM2673SD-5.0TR-ND	5V, SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	625.10/250		
LM2673SD-12CT-ND	12V, SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	4.70	3.58	2.73
LM2673SD-12TR-ND	12V, SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	625.10/250		
LM2673SD-ADJCT-ND	Adj., SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	4.70	3.58	2.73
LM2673SD-ADJTR-ND	Adj., SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit	14-LLP	625.10/250		
LM2673T-ADJ-ND	Adj. SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit*	TO-220-7	4.70	3.58	2.73
LM2673T-3.3-ND	3.3V, SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit*	TO-220-7	4.70	3.58	2.73
LM2673T-5.0-ND	5V, SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit*	TO-220-7	4.70	3.58	2.73
LM2673T-12-ND	12V, SIMPLE SWITCHER® 3A Buck Voltage Regulator with Adj. Current Limit*	TO-220-7	4.70	3.58	2.73
LM2674LD-ADJCT-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	16-LLP	3.10	2.36	1.80
LM2674LD-ADJTR-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	16-LLP	1562.40/1,000		
LM2674LD-3.3CT-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-3.3TR-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator	16-LLP	1562.40/1,000		
LM2674LD-5.0CT-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-5.0TR-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator	16-LLP	1562.40/1,000		
LM2674LD-12CT-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-12TR-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator	16-LLP	1562.40/1,000		
LM2674M-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-SOIC	3.10	2.36	1.80
LM2674M-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-SOIC	3.10	2.36	1.80
LM2674M-5.0-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-SOIC	3.10	2.36	1.80
LM2674M-12-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-SOIC	3.10	2.36	1.80
LM2674N-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-Dip	3.10	2.36	1.80
LM2674N-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-Dip	3.10	2.36	1.80
LM2674N-5.0-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-Dip	3.10	2.36	1.80
LM2674N-12-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 500mA Buck Voltage Regulator*	8-Dip	3.10	2.36	1.80
LM2675LD-ADJCT-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	4.00	3.04	2.32
LM2675LD-ADJTR-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	2016.00/1,000		
LM2675LD-3.3CT-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	4.00	3.04	2.32
LM2675LD-3.3TR-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	2016.00/1,000		
LM2675LD-5.0CT-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	4.00	3.04	2.32
LM2675LD-5.0TR-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	2016.00/1,000		
LM2675LD-12CT-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	4.00	3.04	2.32
LM2675LD-12TR-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	16-LLP	2016.00/1,000		
LM2675M-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675M-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675M-5.0-ND	5V, High-Efficiency Switcher, 1A, Buck Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675M-12-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675N-ADJ-ND	Adj. SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator*	8-Dip	4.00	3.04	2.32
LM2675N-3.3-ND	3.3V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator*	8-Dip	4.00	3.04	2.32
LM2675N-5.0-ND	5V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator*	8-Dip	4.00	3.04	2.32
LM2675N-12-ND	12V, SIMPLE SWITCHER® Power Converter High Efficiency 1A Buck Voltage Regulator*	8-Dip	4.00	3.04	2.32
LM2676S-ADJ-ND	Adj. SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator*	TO-263-7	4.48	3.41	2.60
LM2676S-3.3-ND	3.3V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator*	TO-263-7	4.48	3.41	2.60
LM2676S-5.0-ND	5V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator*	TO-263-7	4.48	3.41	2.60
LM2676S-12-ND	12V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator*	TO-263-7	4.48	3.41	2.60
LM2676SD-3.3CT-ND	3.3V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator	14-LLP	4.48	3.41	2.60

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(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2676SD-3.3TR-ND	3.3V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator	14-LLP	595.18/250		
LM2676SD-5.0CT-ND	5V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator*	14-LLP	4.48	3.41	2.60
LM2676SD-5.0TR-ND	5V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator*	14-LLP	595.18/250		
LM2676SD-12CT-ND	12V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator	14-LLP	4.48	3.41	2.60
LM2676SD-12TR-ND	12V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator	14-LLP	595.18/250		
LM2676SD-ADJCT-ND	Adj., SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator*	14-LLP	4.48	3.41	2.60
LM2676SD-ADJTR-ND	Adj., SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator*	14-LLP	595.18/250		
LM2676T-ADJ-ND	Adj. SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator*	TO-220-7	4.48	3.41	2.60
LM2676T-3.3-ND	3.3V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator	TO-220-7	4.48	3.41	2.60
LM2676T-5.0-ND	5V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator*	TO-220-7	4.48	3.41	2.60
LM2676T-12-ND	12V, SIMPLE SWITCHER® High Efficiency 3A Buck Voltage Regulator*	TO-220-7	4.48	3.41	2.60
LM2677S-ADJ-ND	Adj. SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.*	TO-263-7	7.50	5.93	4.75
LM2677S-3.3-ND	3.3V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.*	TO-263-7	7.50	5.93	4.75
LM2677S-5.0-ND	5V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.*	TO-263-7	7.50	5.93	4.75
LM2677S-12-ND	12V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.*	TO-263-7	7.50	5.93	4.75
LM2677SD-3.3CT-ND	3.3V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.	14-LLP	7.50	5.93	4.75
LM2677SD-3.3TR-ND	3.3V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.	14-LLP	1133.48/250		
LM2677SD-5.0CT-ND	5V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.	14-LLP	7.50	5.93	4.75
LM2677SD-5.0TR-ND	5V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.	14-LLP	1133.48/250		
LM2677SD-12CT-ND	12V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.	14-LLP	7.50	5.93	4.75
LM2677SD-12TR-ND	12V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.	14-LLP	1133.48/250		
LM2677SD-ADJCT-ND	Adj., SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.*	14-LLP	7.50	5.93	4.75
LM2677SD-ADJTR-ND	Adj., SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.*	14-LLP	1133.48/250		
LM2677T-ADJ-ND	Adj., SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.*	TO-220-7	7.50	5.93	4.75
LM2677T-3.3-ND	3.3V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.	TO-220-7	7.50	5.93	4.75
LM2677T-5.0-ND	5V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.*	TO-220-7	7.50	5.93	4.75
LM2677T-12-ND	12V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator with Sync.*	TO-220-7	7.50	5.93	4.75
LM2678S-ADJ-ND	Adj. SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator*	TO-263-7	6.24	4.94	3.96
LM2678S-3.3-ND	3.3V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator*	TO-263-7	6.24	4.94	3.96
LM2678S-5.0-ND	5V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator*	TO-263-7	6.24	4.94	3.96
LM2678S-12-ND	12V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator*	TO-263-7	6.24	4.94	3.96
LM2678SD-3.3CT-ND	3.3V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator	14-LLP	6.24	4.94	3.96
LM2678SD-3.3TR-ND	3.3V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator	14-LLP	942.98/250		
LM2678SD-5.0CT-ND	5V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator*	14-LLP	6.24	4.94	3.96
LM2678SD-5.0TR-ND	5V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator*	14-LLP	942.98/250		
LM2678SD-12CT-ND	12V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator	14-LLP	6.24	4.94	3.96
LM2678SD-12TR-ND	12V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator	14-LLP	942.98/250		
LM2678SD-ADJCT-ND	Adj., SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator*	14-LLP	6.24	4.94	3.96
LM2678SD-ADJTR-ND	Adj., SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator*	14-LLP	942.98/250		
LM2678T-ADJ-ND	Adj., SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator*	TO-220-7	6.24	4.94	3.96
LM2678T-3.3-ND	3.3V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator*	TO-220-7	6.24	4.94	3.96
LM2678T-5.0-ND	5V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator*	TO-220-7	6.24	4.94	3.96
LM2678T-12-ND	12V, SIMPLE SWITCHER® High Efficiency 5A Buck Voltage Regulator	TO-220-7	6.24	4.94	3.96
LM2679S-ADJ-ND	Adj., SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit*	TO-263-7	6.59	5.22	4.18
LM2679S-3.3-ND	3.3V, SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit*	TO-263-7	6.59	5.22	4.18
LM2679S-5.0-ND	5V, SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit*	TO-263-7	6.59	5.22	4.18
LM2679S-12-ND	12V, SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit*	TO-263-7	6.59	5.22	4.18
LM2679SD-3.3CT-ND	3.3V, SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit	14-LLP	6.59	5.22	4.18
LM2679SD-3.3TR-ND	3.3V, SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit	14-LLP	996.95/250		
LM2679SD-5.0CT-ND	5V, SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit	14-LLP	6.59	5.22	4.18
LM2679SD-5.0TR-ND	5V, SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit	14-LLP	996.95/250		
LM2679SD-12CT-ND	12V, SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit	14-LLP	6.59	5.22	4.18
LM2679SD-12TR-ND	12V, SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit	14-LLP	996.95/250		
LM2679SD-ADJCT-ND	Adj., SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit	14-LLP	6.59	5.22	4.18
LM2679SD-ADJTR-ND	Adj., SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit	14-LLP	996.95/250		
LM2679T-ADJ-ND	Adj., SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit*	TO-220-7	6.59	5.22	4.18
LM2679T-3.3-ND	3.3V, SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit*	TO-220-7	6.59	5.22	4.18
LM2679T-5.0-ND	5V, SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit*	TO-220-7	6.59	5.22	4.18
LM2679T-12-ND	12V, SIMPLE SWITCHER® High Efficiency 5A Buck Regulator with Adj. Current Limit*	TO-220-7	6.59	5.22	4.18
LM2681M6CT-ND	Switched Capacitor Voltage Converter*	SOT-23-6	1.13	.83	.60
LM2681M6TR-ND	Switched Capacitor Voltage Converter*	SOT-23-6	390.00/1,000		
LM2682M-ND	Switched Capacitor Voltage Doubling Inverter*	8-SOIC	1.67	1.25	.92
LM2682MMCT-ND	Switched Capacitor Voltage Doubling Inverter*	8-MSOP	1.67	1.25	.92
LM2682MMTR-ND	Switched Capacitor Voltage Doubling Inverter*	8-MSOP	691.20/1,000		
LM2685MTC-ND	Dual Out Reg. Switched Capacitor Voltage Converter*	14-TSSOP	2.53	1.92	1.47
LM2686MTC-ND	Regulated Switched Capacitor Voltage Converter*	14-TSSOP	2.53	1.92	1.47
LM2687LDCT- ND	Low Noise Regulated Switched Capacitor Volt. Inverter	8-LLP	1.71	1.27	.94
LM2687LDTR-ND	Low Noise Regulated Switched Capacitor Volt. Inverter	8-LLP	704.00/1,000		
LM2687MMCT-ND	Low Noise Regulated Switched Capacitor Volt. Inverter*	8-MSOP	1.71	1.27	.94
LM2687MMTR-ND	Low Noise Regulated Switched Capacitor Volt. Inverter*	8-MSOP	704.00/1,000		
LM2694MT-ND	30V, 600mA Buck Switching Regulator*	14-TSSOP	2.95	2.19	1.62
LM2694SDCT-ND	30V, 600mA Buck Switching Regulator*	10-LLP	2.95	2.19	1.62
LM2694SDTR-ND	30V, 600mA Buck Switching Regulator*	10-LLP	1216.00/1,000		
LM2695MH-ND	30V, 1.25A Buck Switching Regulator*	14-TSSOP	3.33	2.53	1.93
LM2695SDCT-ND	30V, 1.25A Buck Switching Regulator*	10-LLP	3.33	2.53	1.93
LM2695SDTR-ND	30V, 1.25A Buck Switching Regulator*	10-LLP	1675.80/1,000		
LM2696MXA-ND	3A Constant On Time Buck Regulator*	16-TSSOP	4.05	3.08	2.35
LM2698MM-ADJCT-ND	Adj., 1.35A SIMPLE SWITCHER® Boost Regulator*	8-MSOP	4.35	3.31	2.53
LM2698MM-ADJTR-ND	Adj., 1.35A SIMPLE SWITCHER® Boost Regulator*	8-MSOP	2192.40/1,000		
LM2700LD-ADJCT-ND	600kHz/1.25MHz, 2.5A, Step-Up PWM DC-DC Converter	14-LLP	4.08	3.10	2.37
LM2700LD-ADJTR-ND	600kHz/1.25MHz, 2.5A, Step-Up PWM DC-DC Converter	14-LLP	2053.80/1,000		
LM2700MT-ADJ-ND	600kHz/1.25MHz, 2.5A, Step-Up PWM DC-DC Converter*	14-TSSOP	4.08	3.10	2.37
LM2702MT-ADJ-ND	TFT Panel Module	16-TSSOP	2.98	2.27	1.73
LM2703MF-ADJCT-ND	Adj. Micropower Step-Up DC-DC Converter*	SOT-23-5	2.23	1.66	1.23
LM2703MF-ADJTR-ND	Adj. Micropower Step-Up DC-DC Converter*	SOT-23-5	921.60/1,000		
LM2703EV-ND	Evaluation Board for LM2703	—	49.80	—	—
LM2704MF-ADJCT-ND	Adj. Micropower Step-Up DC-DC Converter*	SOT-23-5	2.65	1.97	1.46
LM2704MF-ADJTR-ND	Adj. Micropower Step-Up DC-DC Converter*	SOT-23-5	1094.40/1,000		
LM2704EV-ND	Evaluation Board for LM2704	—	49.80	—	—
LM2705MF-ADJCT-ND	Step-Up DC-DC Converter with 150mA Peak Current*	SOT-23-5	2.41	1.80	1.33
LM2705MF-ADJTR-ND	Step-Up DC-DC Converter with 150mA Peak Current*	SOT-23-5	997.12/1,000		
LM2715MT-ADJ-ND	TFT Panel Module	16-TSSOP	2.78	2.11	1.61
LM2716MT-ND	Dual PWM DC-DC Converter*	24-TSSOP	5.70	4.34	3.31
LM2717MT-ND	Dual Buck DC-DC Converter*	24-TSSOP	5.83	4.43	3.38
LM2722M-ND	High Speed Sync./Async. MOSFET Driver	8-SOIC	2.78	2.11	1.61
LM2724ALDCT-ND	High Speed 3A Synchronous MOSFET Driver	8-LLP	2.78	2.11	1.61
LM2724ALDTR-ND	High Speed 3A Synchronous MOSFET Driver	8-LLP	1398.60/1,000		
LM2724AM-ND	High Speed 3A Synchronous MOSFET Driver*	8-SOIC	2.78	2.11	1.61
LM2724ASDCT-ND	High Speed 3A Synchronous MOSFET Driver	8-LLP	2.78	2.11	1.61
LM2724ASDTR-ND	High Speed 3A Synchronous MOSFET Driver	8-LLP	1398.60/1,000		
LM2725M-ND	High Speed Synchronous MOSFET Driver*	8-SOIC	2.85	2.17	1.66
LM2726M-ND	High Speed Synchronous MOSFET Driver*	8-SOIC	3.23	2.46	1.88
LM2727MTC-ND	N-Channel FET Sync. Buck Regulator Controller*	14-TSSOP	2.98	2.27	1.73
LM2731XMFCT-ND	0.6/1.6MHz Boost Converter w/22V Internal FET Switch*	SOT-23-5	2.58	1.96	1.50
LM2731XMFTR-ND	0.6/1.6MHz Boost Converter w/22V Internal FET Switch*	SOT-23-5	1297.80/1,000		
LM2731YMFCT-ND	0.6/1.6MHz Boost Converter w/22V Internal FET Switch*	SOT-23-5	2.58	1.96	1.50
LM2731YMFTR-ND	0.6/1.6MHz Boost Converter w/22V Internal FET Switch*	SOT-23-5	1297.80/1,000		
LM2733XMFCT-ND	0.6/1.6MHz Boost Converter w/40V Internal FET Switch*	SOT-23-5	2.58	1.96	1.50
LM2733XMFTR-ND	0.6/1.6MHz Boost Converter w/40V Internal FET Switch*	SOT-23-5	1297.80/1,000		
LM2733YMFCT-ND	0.6/1.6MHz Boost Converter w/40V Internal FET Switch*	SOT-23-5	2.58	1.96	1.50
LM2733YMFTR-ND	0.6/1.6MHz Boost Converter w/40V Internal FET Switch*	SOT-23-5	1297.80/1,000		
LM2734XMKCT-ND	1A Load Buck DC-DC Regulator*	TSOT-23-6	3.58	2.72	2.08
LM2734XMKTR-ND	1A Load Buck DC-DC Regulator*	TSOT-23-6	1801.80/1,000		
LM2734YMKCT-ND	1A Load Buck DC-DC Regulator*	TSOT-23-6	2.98	2.27	1.73
LM2734YMKTR-ND	1A Load Buck DC-DC Regulator*	TSOT-23-6	1499.40/1,000		
LM2734ZMKCT-ND	1A Load Buck DC-DC Regulator	6-TSOT	4.15	3.16	2.41
LM2734ZMKTR-ND	1A Load Buck DC-DC Regulator	6-TSOT	2091.60/1,000		
LM2734ZSDCT-ND	1A Load Buck DC-DC Regulator*	6-LLP	4.15	3.16	2.41
LM2734ZSDTR-ND	1A Load Buck DC-DC Regulator*	6-LLP	2091.60/1,000		
LM2735XMFCT-ND	520/1.6MHz Boost DC-DC Regulator*	SOT-23-5	2.98	2.27	1.73
LM2735XMFTR-ND	520/1.6MHz Boost DC-DC Regulator*	SOT-23-5	1499.40/1,000		
LM2735XMYCT-ND	520/1.6MHz Boost DC-DC Regulator*	8-EMSOP	2.98	2.27	1.73
LM2735XMYTR-ND	520/1.6MHz Boost DC-DC Regulator*	8-EMSOP	1499.40/1,000		
LM2736XMKCT-ND	750mA Load Buck DC-DC Regulator*	TSOT-23-6	3.33	2.53	1.93
LM2736XMKTR-ND	750mA Load Buck DC-DC Regulator*	TSOT-23-6	1675.80/1,000		
LM2736YMKCT-ND	750mA Load Buck DC-DC Regulator*	TSOT-23-6	2.73	2.08	1.59
LM2736YMKTR-ND	750mA Load Buck DC-DC Regulator*	TSOT-23-6	1373.40/1,000		
LM2737MTC-ND	N-Channel FET Sync. Buck Regulator Controller	14-TSSOP	2.98	2.27	1.73
LM2742MTC-ND	N-Channel FET Sync. Buck Regulator Controller*	14-TSSOP	2.98	2.27	1.73
LM2743MTC-ND	N-Channel FET Sync. Buck Regulator Controller*	14-TSSOP	2.73	2.08	1.59
LM2744MTC-ND	Low Volt. N-Ch. MOSFET Sync. Buck Reg. Controller	14-TSSOP	3.09	2.30	1.70
LM2745MTC-ND	Sync. Buck Controller with Pre-Bias Startup*	14-TSSOP	3.33	2.53	1.93
LM2746MXA-ND	Low Volt. N-Ch. MOSFET Sync. Buck Reg. Controller	14-ETSSOP	3.10	2.36	1.80
LM2747MTC-ND	Sync. Buck Controller with Pre-Bias Startup*	14-TSSOP	3.45	2.63	2.01
LM2747MTCXCT-ND	Sync. Buck Controller with Pre-Bias Startup*	14-TSSOP	3.45	2.63	2.01
LM2747MTCXTR-ND	Sync. Buck Controller with Pre-Bias Startup*	14-TSSOP	4312.50/2,500		
LM2748MTC-ND	Sync. Buck Controller with Pre-Bias Startup*	14-TSSOP	3.13	2.38	1.82
LM2750LD-5.0CT-ND	LN, 5.0V Regulator Switched Capacitor Voltage Converter	10-LLP	2.63	2.00	1.53
LM2750LD-5.0TR-ND	LN, 5.0V Regulator Switched Capacitor Voltage Converter	10-LLP	1323.00/1,000		
LM2750LD-ADJCT-ND	LN, Adj. Regulator Switched Capacitor Voltage Converter	10-LLP	2.63	2.00	1.53
LM2750LD-ADJTR-ND	LN, Adj. Regulator Switched Capacitor Voltage Converter	10-LLP	1323.00/1,000		
LM2750LD-ADJEV-ND	Evaluation Board for LM2750LD-ADJ*	—	93.15	—	—
LM2750SD-5.0CT-ND	5V Low Noise Switched Capacitor Boost Regulator*	10-LLP	2.63	2.00	1.53
LM2750SD-5.0TR-ND	5V Low Noise Switched Capacitor Boost Regulator*	10-LLP	1323.00/1,000		

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2751SD-ACT-ND	Regulated 2X, 1.5X White LED Driver*	10-LLP	2.63	2.00	1.53
LM2751SD-ATR-ND	Regulated 2X, 1.5X White LED Driver*	10-LLP	1323.00/1,000		
LM2751SD-BCT-ND	Regulated 2X, 1.5X White LED Driver*	10-LLP	2.63	2.00	1.53
LM2751SD-BTR-ND	Regulated 2X, 1.5X White LED Driver*	10-LLP	1323.00/1,000		
LM2753SDCT-ND	High Power Switched Capacitor Voltage Converter/ Flash LED Driver*	10-LLP	3.10	2.36	1.80
LM2753SDTR-ND	High Power Switched Capacitor Voltage Converter/ Flash LED Driver*	10-LLP	1562.40/1,000		
LM2754SQCT-ND	800mA Switched Capacitor Flash LED Driver*	24-LLP	3.10	2.36	1.80
LM2754SQTR-ND	800mA Switched Capacitor Flash LED Driver*	24-LLP	1562.40/1,000		
LM2754SQEV-ND	Evaluation Board for LM2754SQ*	—	123.30	—	—
LM2755TMCT-ND	Charge Pump LED Controller with I²C Compatible Interface*	18-microSMD	3.58	2.72	2.08
LM2755TMTR-ND	Charge Pump LED Controller with I²C Compatible Interface*	18-microSMD	475.48/250		
LM2756TMCT-ND	180mA Switched Capacitor Multi-Dsiplay Inductorless LED Driver*	20-µSMD	4.28	3.25	2.48
LM2756TMTR-ND	180mA Switched Capacitor Multi-Dsiplay Inductorless LED Driver*	20-µSMD	568.58/250		
LM2757TMCT-ND	Switched Capacitor Boost Regulator with High Impedance Output in Shutdown*	12-microSMD	3.58	2.72	2.08
LM2757TMTR-ND	Switched Capacitor Boost Regulator with High Impedance Output in Shutdown*	12-microSMD	475.48/250		
LM2760M5CT-ND	3.3V, Regulator Switched Capacitor Voltage Converter*	SOT-23-5	2.89	2.15	1.59
LM2760M5TR-ND	3.3V, Regulator Switched Capacitor Voltage Converter	SOT-23-5	1191.68/1,000		
LM2765M6CT-ND	Switched Capacitor Voltage Converter*	SOT-23-6	1.02	.75	.55
LM2765M6TR-ND	Switched Capacitor Voltage Converter*	SOT-23-6	353.60/1,000		
LM2766M6CT-ND	Switched Capacitor Voltage Converter*	SOT-23-6	1.02	.75	.55
LM2766M6TR-ND	Switched Capacitor Voltage Converter*	SOT-23-6	353.60/1,000		
LM2767M5CT-ND	Switched Capacitor Voltage Converter*	SOT-23-6	1.11	.81	.59
LM2767M5TR-ND	Switched Capacitor Voltage Converter*	SOT-23-6	345.80/1,000		
LM2770SD-1215CT-ND	1.2V/1.5V, High Efficiency Switched Capacitor Buck DC-DC Regulator	10-LLP	2.95	2.19	1.62
LM2770SD-1215TR-ND	1.2V/1.5V, High Efficiency Switched Capacitor Buck DC-DC Regulator	10-LLP	1216.00/1,000		
LM2770SD-12157CT-ND	1.2V/1.575V, High Efficiency Switched Capacitor Buck DC-DC Regulator	10-LLP	2.95	2.19	1.62
LM2770SD-12157TR-ND	1.2V/1.575V, High Efficiency Switched Capacitor Buck DC-DC Regulator	10-LLP	1216.00/1,000		
LM2772SDCT-ND	Low Ripple Switched Capacitor Step-Down Reg.*	10-LLP	2.85	2.17	1.66
LM2772SDTR-ND	Low Ripple Switched Capacitor Step-Down Reg.*	10-LLP	1436.40/1,000		
LM2780TPCT-ND	Ultra-Low Ripple Switched Capacitor Volt. Inverter*	8-microSMD	1.56	1.16	.86
LM2780TPTR-ND	Ultra-Low Ripple Switched Capacitor Volt. Inverter*	8-microSMD	170.10/250		
LM2781TPCT-ND	Ultra-Low Ripple Switched Capacitor Volt. Inverter*	8-microSMD	1.56	1.16	.86
LM2781TPTR-ND	Ultra-Low Ripple Switched Capacitor Volt. Inverter*	8-microSMD	170.10/250		
LM2787BPCT-ND	LN Regulated Switched Cap. Voltage Inverter	8-microSMD	2.80	2.08	1.54
LM2787BPTR-ND	LN Regulated Switched Cap. Voltage Inverter	8-microSMD	304.76/250		
LM2787TP-ND	LN Regulated Switched Cap. Voltage Inverter*	8-microSMD	2.65	1.97	1.46
LM2788MM-1.5CT-ND	1.5V, 120mA High Efficiency Buck Switched Capacitor Voltage Converter	8-MSOP	2.74	2.04	1.51
LM2788MM-1.5TR-ND	1.5V, 120mA High Efficiency Buck Switched Capacitor Voltage Converter*	8-MSOP	1131.52/1,000		
LM2788MM-1.8CT-ND	1.8V, 120mA High Efficiency Buck Switched Capacitor Voltage Converter	8-MSOP	2.74	2.04	1.51
LM2788MM-1.8TR-ND	1.8V, 120mA High Efficiency Buck Switched Capacitor Voltage Converter	8-MSOP	1131.52/1,000		
LM2791LD-HCT-ND	Current Regulated Switched Capacitor LED Driver with Analog Brightness Control	10-LLP	2.36	1.75	1.30
LM2791LD-HTR-ND	Current Regulated Switched Capacitor LED Driver with Analog Brightness Control	10-LLP	972.80/1,000		
LM2791LD-LCT-ND	Current Regulated Switched Capacitor LED Driver with Analog Brightness Control	10-LLP	2.36	1.75	1.30
LM2791LD-LTR-ND	Current Regulated Switched Capacitor LED Driver with Analog Brightness Control*	10-LLP	972.80/1,000		
LM2792LD-HCT-ND	Current Regulated Switched Capacitor LED Driver	10-LLP	1.77	1.32	.97
LM2792LD-HTR-ND	Current Regulated Switched Capacitor LED Driver	10-LLP	729.60/1,000		
LM2792LD-LCT-ND	Current Regulated Switched Capacitor LED Driver	10-LLP	1.77	1.32	.97
LM2792LD-LTR-ND	Current Regulated Switched Capacitor LED Driver	10-LLP	729.60/1,000		
LM2793LDEV-ND	Evaluation Board for LM2793LD*	—	108.45	—	—
LM2794EVAL-ND	Evaluation Board for LM2794*	—	103.35	—	—
LM2795BLCT-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-microSMD	2.65	1.97	1.46
LM2795BLTR-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-microSMD	288.56/250		
LM2795EVAL-ND	Evaluation Board for LM2795*	—	103.35	—	—
LM2796TLCT-ND	Dual Display White LED Driver	18-microSMD	3.63	2.76	2.11
LM2796TLTR-ND	Dual Display White LED Driver	18-microSMD	482.13/250		
LM2796TLEV-ND	Evaluation Board for LM2796TL*	—	100.80	—	—
LM2797MM-1.8CT-ND	1.8V, 120mA, High Efficiency Buck Switched Capacitor Voltage Converter with Voltage Monitoring	10-MSOP	3.06	2.28	1.68
LM2797MM-1.8TR-ND	1.8V, 120mA, High Efficiency Buck Switched Capacitor Voltage Converter with Voltage Monitoring*	10-MSOP	1264.64/1,000		
LM2798MM-2.0CT-ND	2.0V, 120mA, High Efficiency Buck Switched Capacitor Voltage Converter with Voltage Monitoring	10-MSOP	3.06	2.28	1.68
LM2798MM-2.0TR-ND	2.0V, 120mA, High Efficiency Buck Switched Capacitor Voltage Converter with Voltage Monitoring	10-MSOP	1264.64/1,000		
LM2825HN-ADJ-ND	Adjustable Integrated Power Supply 1A DC-DC Converter*	24-Dip	30.00	28.00	26.00
LM2825N-ADJ-ND	Adjustable DC-DC Converter*	24-Dip	30.00	28.00	26.00
LM2825N-3.3-ND	3.3V, Integrated Power Supply 1A DC-DC Converter	24-Dip	30.00	28.00	26.00
LM2825N-5.0-ND	5V, Integrated Power Supply 1A DC-DC Converter*	24-Dip	30.00	28.00	26.00
LM2825N-12-ND	12V, Integrated Power Supply 1A DC-DC Converter*	24-Dip	30.00	28.00	26.00
LM2830XMFCT-ND	High Frequency 1A Load, Buck DC-DC Regulator*	SOT-23-5	2.98	2.27	1.73
LM2830XMFTR-ND	High Frequency 1A Load, Buck DC-DC Regulator*	SOT-23-5	1499.40/1,000		
LM2830ZMFCT-ND	High Frequency 1A Load, Buck DC-DC Regulator*	SOT-23-5	3.58	2.72	2.08
LM2830ZMFTR-ND	High Frequency 1A Load, Buck DC-DC Regulator*	SOT-23-5	1801.80/1,000		
LM2830ZSDCT-ND	High Frequency 1A Load, Buck DC-DC Regulator*	6-LLP	3.58	2.72	2.08
LM2830ZSDTR-ND	High Frequency 1A Load, Buck DC-DC Regulator*	6-LLP	1801.80/1,000		
LM2831XMFCT-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	SOT-23-5	3.93	2.99	2.28
LM2831XMFTR-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	SOT-23-5	1978.20/1,000		
LM2831XMF EVAL-ND	Evaluation Board for LM2831XMF	—	38.25	—	—
LM2831XSDCT-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	6-LLP	3.93	2.99	2.28
LM2831XSDTR-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	6-LLP	1978.20/1,000		
LM2831YMFCT-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	SOT-23-5	3.20	2.44	1.86
LM2831YMFTR-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	SOT-23-5	1612.80/1,000		
LM2831YSDCT-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	6-LLP	3.20	2.44	1.86
LM2831YSDTR-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	6-LLP	1612.80/1,000		
LM2831ZMFCT-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	SOT-23-5	4.25	3.23	2.47
LM2831ZMFTR-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	SOT-23-5	2142.00/1,000		
LM2831ZSDCT-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	6-LLP	4.25	3.23	2.47
LM2831ZSDTR-ND	High Frequency 1.5A Load, Buck DC-DC Regulator*	6-LLP	2142.00/1,000		
LM2832XMYCT-ND	High Frequency 2A Load, Buck DC-DC Regulator*	8-eMSOP	4.73	3.60	2.75
LM2832XMYTR-ND	High Frequency 2A Load, Buck DC-DC Regulator*	8-eMSOP	2381.40/1,000		
LM2832XSDCT-ND	High Frequency 2A Load, Buck DC-DC Regulator*	6-LLP	4.73	3.60	2.75
LM2832XSDTR-ND	High Frequency 2A Load, Buck DC-DC Regulator*	6-LLP	2381.40/1,000		
LM2832YMYCT-ND	High Frequency 2A Load, Buck DC-DC Regulator*	8-eMSOP	4.25	3.23	2.47
LM2832YMYTR-ND	High Frequency 2A Load, Buck DC-DC Regulator*	8-eMSOP	2142.00/1,000		
LM2832YSDCT-ND	High Frequency 2A Load, Buck DC-DC Regulator*	6-LLP	4.25	3.23	2.47
LM2832YSDTR-ND	High Frequency 2A Load, Buck DC-DC Regulator*	6-LLP	2142.00/1,000		
LM2832ZMYCT-ND	High Frequency 2A Load, Buck DC-DC Regulator*	8-eMSOP	5.20	3.96	3.02
LM2832ZMYTR-ND	High Frequency 2A Load, Buck DC-DC Regulator*	8-eMSOP	2620.80/1,000		
LM2832ZSDCT-ND	High Frequency 2A Load, Buck DC-DC Regulator*	6-LLP	5.20	3.96	3.02
LM2832ZSDTR-ND	High Frequency 2A Load, Buck DC-DC Regulator*	6-LLP	2620.80/1,000		
LM2852XMXA-0.8-ND	0.8V, 2A, 500/1500kHz Synchronous SIMPLE SWITCHER® Buck Regulator	14-TSSOP	5.00	3.80	2.90
LM2852XMXA-1.0-ND	1V, 2A, 500/1500kHz Synchronous SIMPLE SWITCHER® Buck Regulator	14-TSSOP	5.00	3.80	2.90
LM2852XMXA-1.2-ND	1.2V, 2A, 500/1500kHz Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.00	3.80	2.90
LM2852XMXA-1.5-ND	1.5V, 2A, 500/1500kHz Synchronous SIMPLE SWITCHER® Buck Regulator	14-TSSOP	5.00	3.80	2.90
LM2852XMXA-1.8-ND	1.8V, 2A, 500/1500kHz Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.00	3.80	2.90
LM2852XMXA-2.5-ND	2.5V, 2A, 500/1500kHz Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.00	3.80	2.90
LM2852XMXA-3.0-ND	3V, 2A, 500/1500kHz Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.00	3.80	2.90
LM2852XMXA-3.3-ND	3.3V, 2A, 500/1500kHz Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.00	3.80	2.90
LM2852YMXA-0.8-ND	0.8V, 2A SIMPLE SWITCHER® Buck Regulator	14-TSSOP	4.53	3.44	2.63
LM2852YMXA-1.0-ND	1.0V, 2A SIMPLE SWITCHER® Buck Regulator	14-TSSOP	4.53	3.44	2.63
LM2852YMXA-1.2-ND	1.2V, 2A SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	4.53	3.44	2.63
LM2852YMXA-1.3-ND	1.3V, 2A SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	4.53	3.44	2.63
LM2852YMXA-1.5-ND	1.5V, 2A SIMPLE SWITCHER® Buck Regulator	14-TSSOP	4.53	3.44	2.63
LM2852YMXA-1.8-ND	1.8V, 2A SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	4.53	3.44	2.63
LM2852YMXA-2.5-ND	2.5V, 2A SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	4.53	3.44	2.63
LM2852YMXA-3.3-ND	3.3V, 2A SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	4.53	3.44	2.63
LM2853MH-0.8-ND	0.8V, 3A Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.23	3.98	3.04
LM2853MH-1.0-ND	1.0V, 3A Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.23	3.98	3.04
LM2853MH-1.2-ND	1.2V, 3A Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.23	3.98	3.04
LM2853MH-1.5-ND	1.5V, 3A Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.23	3.98	3.04
LM2853MH-1.8-ND	1.8V, 3A Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.23	3.98	3.04
LM2853MH-2.5-ND	2.5V, 3A Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.23	3.98	3.04
LM2853MH-3.0-ND	3.0V, 3A Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.23	3.98	3.04
LM2853MH-3.3-ND	3.3V, 3A Synchronous SIMPLE SWITCHER® Buck Regulator*	14-TSSOP	5.23	3.98	3.04
LM2854MH-500-ND	4A, 500kHz PowerWise® Sync. SIMPLE SWITCHER® Buck Regulator* ***NEW!***	16-ETSSOP	6.18	4.70	3.59
LM2854MH-1000-ND	4A, 1MHz PowerWise® Sync. SIMPLE SWITCHER® Buck Regulator* ***NEW!***	16-ETSSOP	6.18	4.70	3.59
LM2876T-ND	High Performance 40W Audio Power Amp with Mute*	TO-220-11	5.10	3.88	2.96
LM2876TF-ND	High Performance 40W Audio Power Amp with Mute*	TO-220-11	5.85	4.45	3.40
LM2901M-ND	Quad Voltage Comparator*	14-SOIC	1.04	.75	.55
LM2901MXCT-ND	Quad Voltage Comparator*	14-SOIC	1.04	.75	.55
LM2901MXTR-ND	Quad Voltage Comparator*	14-SOIC	764.75/2,500		
LM2901NNS-ND	Quad Voltage Comparator*	14-Dip	1.11	.81	.59
LM2902M-ND	Low Power Quad Op Amp*	14-SOIC	1.02	.75	.55
LM2902MXCT-ND	Low Power Quad Op Amp*	14-SOIC	1.01	.75	.54
LM2902MXTR-ND	Low Power Quad Op Amp*	14-SOIC	867.00/2,500		
LM2902NNS-ND	Low Power Quad Op Amp*	14-Dip	1.18	.87	.63
LM2903MNS-ND	Dual Comparator*	8-SOIC	1.04	.75	.55
LM2903MXCT-ND	Dual Comparator*	8-SOIC	.90	.65	.47
LM2903MXTR-ND	Dual Comparator*	8-SOIC	764.75/2,500		
LM2903NNS-ND	Dual Comparator*	8-Dip	1.11	.81	.59
LM2904MNS-ND	Low Power Dual Op Amp*	8-SOIC	1.04	.75	.55
LM2904NNS-ND	Dual Op Amp*	8-Dip	1.11	.81	.59
LM2907M-8-ND	Frequency-to-Voltage Converter*	8-SOIC	1.86	1.38	1.02
LM2907N-ND	Frequency-to-Voltage Converter*	14-Dip	1.86	1.38	1.02
LM2907N-8-ND	Frequency-to-Voltage Converter*	8-Dip	1.86	1.38	1.02
LM2917M-ND	Frequency-to-Voltage Converter*	14-SOIC	2.02	1.50	1.11
LM2917M-8-ND	Frequency-to-Voltage Converter*	8-SOIC	2.02	1.50	1.11
LM2917MX-8CT-ND	Frequency-to-Voltage Converter	8-SOIC	2.02	1.50	1.11
LM2917MX-8TR-ND	Frequency-to-Voltage Converter	8-SOIC	2031.25/2,500		
LM2917N-ND	Frequency-to-Voltage Converter*	14-Dip	2.11	1.57	1.16
LM2917N-8-ND	Frequency-to-Voltage Converter*	8-Dip	2.11	1.57	1.16
LM2930S-5.0-ND	5V, 3-Terminal Positive Regulator*	TO-263	1.56	1.16	.86
LM2930S-8.0-ND	8V, 3-Terminal Positive Regulator*	TO-263	1.56	1.16	.86
LM2930T-5.0-ND	5V, 150mA Positive Regulator*	TO-220	1.72	1.27	.92
LM2930T-8.0-ND	8V, 150mA Positive Regulator*	TO-220	1.72	1.27	.92
LM2931AM-5.0-ND	5V, Low Dropout (0.6V) Regulator*	8-SOIC	1.07	.78	.56
LM2931AMX-5.0CT-ND	5V, Low Dropout (0.6V) Regulator*	8-SOIC	1.08	.78	.57
LM2931AMX-5.0TR-ND	5V, Low Dropout (0.6V) Regulator*	8-SOIC	791.35/2,500		
LM2931AS-5.0-ND	5V, Low Dropout (0.6V) Regulator*	TO-263	2.50	1.86	1.38
LM2931AT-5.0NS-ND	5V, Low Dropout (0.6V) Regulator*	TO-220	1.59	1.17	.85
LM2931AZ-5.0-ND	5V, Low Dropout (0.6V) Regulator*	TO-92	.96	.71	.51
LM2931CM-ND	Adjustable, Low Dropout (0.6V) Regulator*	8-SOIC	1.11	.81	.59

*** RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM2931CMXTR-ND	Adjustable, Low Dropout (0.6V) Regulator*	8-SOIC	821.28/2,500		
LM2931CS-ND	Adjustable, Low Dropout (0.6V) Regulator	TO-263-5	2.37	1.76	1.31
LM2931CTNS-ND	Adjustable, Low Dropout (0.6V) Regulator*	TO-220-5	1.59	1.17	.85
LM2931IBP-3.3CT-ND	3.3V, Low Dropout (0.6V) Regulator	6-microSMD	1.33	.98	.71
LM2931IBP-3.3TR-ND	3.3V, Low Dropout (0.6V) Regulator	6-microSMD	132.75/250		
LM2931IBP-5.0CT-ND	5V, Low Dropout (0.6V) Regulator	6-microSMD	1.33	.98	.71
LM2931IBP-5.0TR-ND	5V, Low Dropout (0.6V) Regulator	6-microSMD	132.75/250		
LM2931M-5.0-ND	5V, Low Dropout (0.6V) Regulator*	8-SOIC	.96	.71	.51
LM2931MX-5.0CT-ND	5V, Low Dropout (0.6V) Regulator	8-SOIC	.96	.71	.51
LM2931MX-5.0TR-ND	5V, Low Dropout (0.6V) Regulator	8-SOIC	812.81/2,500		
LM2931S-5.0-ND	5V, Low Dropout (0.6V) Regulator*	TO-263	2.37	1.76	1.31
LM2931T-5.0NS-ND	5V, Low Dropout (0.6V) Regulator*	TO-220	1.59	1.17	.85
LM2931Z-5.0NS-ND	5V, Low Dropout (0.6V) Regulator*	TO-92	.96	.71	.51
LM2936BM-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.39	1.78	1.31
LM2936BM-5.0-ND	5V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.39	1.78	1.31
LM2936DT-3.0-ND	3V, Ultra Low Quiescent Current Regulator*	TO-252	2.65	1.97	1.46
LM2936DT-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator*	TO-252	2.65	1.97	1.46
LM2936DT-5.0-ND	5V, Ultra Low Quiescent Current Regulator*	TO-252	2.65	1.97	1.46
LM2936HVBMA-3.0-ND	3V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.65	1.97	1.46
LM2936HVBMA-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.65	1.97	1.46
LM2936HVBMA-5.0-ND	5V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.65	1.97	1.46
LM2936HVMA-5.0-ND	5V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.65	1.97	1.46
LM2936M-3.0-ND	3V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.33	1.73	1.28
LM2936M-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.33	1.73	1.28
LM2936M-5.0-ND	5V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.33	1.73	1.28
LM2936MM-3.0CT-ND	3V, Ultra Low Quiescent Current Regulator*	8-MSOP	2.33	1.73	1.28
LM2936MM-3.0TR-ND	3V, Ultra Low Quiescent Current Regulator*	8-MSOP	961.28/1,000		
LM2936MM-3.3CT-ND	3.3V, Ultra Low Quiescent Current Regulator*	8-MSOP	2.33	1.73	1.28
LM2936MM-3.3TR-ND	3.3V, Ultra Low Quiescent Current Regulator*	8-MSOP	961.28/1,000		
LM2936MM-5.0CT-ND	5V, Ultra Low Quiescent Current Regulator*	8-MSOP	2.33	1.73	1.28
LM2936MM-5.0TR-ND	5V, Ultra Low Quiescent Current Regulator*	8-MSOP	961.28/1,000		
LM2936MP-3.0CT-ND	3V, Ultra Low Quiescent Current Regulator*	SOT-223-4	2.65	1.97	1.46
LM2936MP-3.0TR-ND	3V, Ultra Low Quiescent Current Regulator*	SOT-223-4	1094.40/1,000		
LM2936MP-3.3CT-ND	3.3V, Ultra Low Quiescent Current Regulator	SOT-223-4	2.65	1.97	1.46
LM2936MP-3.3TR-ND	3.3V, Ultra Low Quiescent Current Regulator	SOT-223-4	1094.40/1,000		
LM2936MP-5.0CT-ND	5V, Ultra Low Quiescent Current Regulator*	SOT-223	2.65	1.97	1.46
LM2936MP-5.0TR-ND	5V, Ultra Low Quiescent Current Regulator*	SOT-223	1094.40/1,000		
LM2936MX-5.0CT-ND	5V, Ultra Low Quiescent Current Regulator*	8-SOIC	2.20	1.64	1.21
LM2936MX-5.0TR-ND	5V, Ultra Low Quiescent Current Regulator*	8-SOIC	2346.88/2,500		
LM2936Z-3.0-ND	3V, Ultra Low Quiescent Current Regulator*	TO-92	2.65	1.97	1.46
LM2936Z-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator*	TO-92	2.65	1.97	1.46
LM2936Z-5.0-ND	5V, Ultra Low Quiescent Current Regulator*	TO-92	2.65	1.97	1.46
LM2937ES-2.5-ND	2.5V, 500mA Low Dropout Regulator*	TO-263	2.32	1.73	1.28
LM2937ES-3.3-ND	3.3V, 500mA Low Dropout Regulator*	TO-263	2.32	1.73	1.28
LM2937ES-5.0-ND	5V, 500mA Low Dropout Regulator*	TO-263	2.32	1.73	1.28
LM2937ES-8.0-ND	8V, 500mA Low Dropout Regulator*	TO-263	2.32	1.73	1.28
LM2937ES-10-ND	10V, 500mA Low Dropout Regulator*	TO-263	2.32	1.73	1.28
LM2937ES-12-ND	12V, 500mA Low Dropout Regulator*	TO-263	2.32	1.73	1.28
LM2937ES-15-ND	15V, 500mA Low Dropout Regulator*	TO-263	2.32	1.73	1.28
LM2937ESX-5.0TR-ND	5V, 500mA Low Dropout Regulator*	TO-263	486.20/500		
LM2937ET-2.5-ND	2.5V, 500mA Low Dropout Regulator*	TO-220	2.06	1.53	1.13
LM2937ET-3.3-ND	3.3V, 500mA Low Dropout Regulator*	TO-220	2.06	1.53	1.13
LM2937ET-5.0-ND	5V, 500mA High Temp Regulator*	TO-220	2.06	1.53	1.13
LM2937ET-8.0-ND	8V, 500mA High Temp Voltage Regulator*	TO-220	2.06	1.53	1.13
LM2937ET-10-ND	10V, 500mA High Temp Voltage Regulator*	TO-220	2.06	1.53	1.13
LM2937ET-12-ND	12V, 500mA High Temp Voltage Regulator*	TO-220	2.06	1.53	1.13
LM2937IMP-2.5CT-ND	2.5V, 500mA Low Dropout Regulator*	SOT-223	1.83	1.36	1.01
LM2937IMP-2.5TR-ND	2.5V, 500mA Low Dropout Regulator*	SOT-223	753.92/1,000		
LM2937IMP-3.3CT-ND	3.3V, 500mA Low Dropout Regulator*	SOT-223	1.83	1.36	1.01
LM2937IMP-3.3TR-ND	3.3V, 500mA Low Dropout Regulator*	SOT-223	753.92/1,000		
LM2937IMP-5.0CT-ND	5V, 400mA Low Dropout Regulator*	SOT-223	1.83	1.36	1.01
LM2937IMP-5.0TR-ND	5V, 400mA Low Dropout Regulator*	SOT-223	753.92/1,000		
LM2937IMP-8.0CT-ND	8V, 500mA Low Dropout Regulator*	SOT-223	1.83	1.36	1.01
LM2937IMP-8.0TR-ND	8V, 500mA Low Dropout Regulator*	SOT-223	753.92/1,000		
LM2937IMP-10CT-ND	10V, 500mA Low Dropout Regulator*	SOT-223	1.83	1.36	1.01
LM2937IMP-10TR-ND	10V, 500mA Low Dropout Regulator*	SOT-223	753.92/1,000		
LM2937IMP-12CT-ND	12V, 500mA Low Dropout Regulator*	SOT-223	1.83	1.36	1.01
LM2937IMP-12TR-ND	12V, 500mA Low Dropout Regulator*	SOT-223	753.92/1,000		
LM2937IMP-15CT-ND	15V, 500mA Low Dropout Regulator*	SOT-223	1.83	1.36	1.01
LM2937IMP-15TR-ND	15V, 500mA Low Dropout Regulator*	SOT-223	753.92/1,000		
LM2940CS-5.0-ND	5V, 1A Low Dropout Regulator*	TO-263	2.11	1.57	1.16
LM2940CS-9.0-ND	9V, 1A Low Dropout Regulator*	TO-263	2.11	1.57	1.16
LM2940CS-12-ND	12V, 1A Low Dropout Regulator*	TO-263	2.11	1.57	1.16
LM2940CS-15-ND	15V, 1A Low Dropout Regulator*	TO-263	2.11	1.57	1.16
LM2940CSX-5.0TR-ND	5V, 1A Low Dropout Regulator	TO-263	442.00/500		
LM2940CT-5.0-ND	5V, 1A Low Dropout Regulator*	TO-220	1.82	1.35	1.00
LM2940CT-9.0-ND	9V, 1A Low Dropout Regulator*	TO-220	1.82	1.35	1.00
LM2940CT-12-ND	12V, 1A Low Dropout Regulator*	TO-220	1.82	1.35	1.00
LM2940CT-15-ND	15V, 1A Low Dropout Regulator*	TO-220	1.82	1.35	1.00
LM2940IMP-5.0CT-ND	5V, 1A Low Dropout Regulator	SOT-223	2.15	1.60	1.18
LM2940IMP-5.0TR-ND	5V, 1A Low Dropout Regulator	SOT-223	885.76/1,000		
LM2940IMP-8.0CT-ND	8V, 1A Low Dropout Regulator	SOT-223	2.15	1.60	1.18
LM2940IMP-8.0TR-ND	8V, 1A Low Dropout Regulator	SOT-223	885.76/1,000		
LM2940IMP-9.0CT-ND	9V, 1A Low Dropout Regulator*	SOT-223	2.15	1.60	1.18
LM2940IMP-9.0TR-ND	9V, 1A Low Dropout Regulator*	SOT-223	885.76/1,000		
LM2940IMP-10CT-ND	10V, 1A Low Dropout Regulator*	SOT-223	2.15	1.60	1.18
LM2940IMP-10TR-ND	10V, 1A Low Dropout Regulator*	SOT-223	885.76/1,000		
LM2940IMP-12CT-ND	12V, 1A Low Dropout Regulator*	SOT-223	2.15	1.60	1.18
LM2940IMP-12TR-ND	12V, 1A Low Dropout Regulator*	SOT-223	885.76/1,000		
LM2940IMP-15CT-ND	15V, 1A Low Dropout Regulator*	SOT-223	2.15	1.60	1.18
LM2940IMP-15TR-ND	15V, 1A Low Dropout Regulator*	SOT-223	885.76/1,000		
LM2940S-5.0-ND	5V, 1A Low Dropout Regulator*	TO-263	2.11	1.57	1.16
LM2940S-8.0-ND	8V, 1A Low Dropout Regulator*	TO-263	2.28	1.70	1.26
LM2940S-9.0-ND	9V, 1A Low Dropout Regulator*	TO-263	2.28	1.70	1.26
LM2940S-10-ND	10V, 1A Low Dropout Regulator*	TO-263	2.11	1.57	1.16
LM2940S-12-ND	12V, 1A Low Dropout Regulator*	TO-263	2.11	1.57	1.16
LM2940SX-5.0TR-ND	5V, 1A Low Dropout Voltage Regulator*	TO-263	442.00/500		
LM2940T-5.0-ND	5V, 1A Low Dropout Voltage Regulator*	TO-220	1.82	1.35	1.00
LM2940T-8.0-ND	8V, 1A Low Dropout Voltage Regulator*	TO-220	1.82	1.35	1.00
LM2940T-9.0-ND	9V, 1A Low Dropout Voltage Regulator*	TO-220	1.82	1.35	1.00
LM2940T-10.0-ND	10V, 1A Low Dropout Voltage Regulator*	TO-220	1.82	1.35	1.00
LM2940T-12.0-ND	12V, 1A Low Dropout Voltage Regulator*	TO-220	1.82	1.35	1.00
LM2941CS-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-263-5	2.28	1.70	1.26
LM2941CSXTR-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-263-5	479.05/500		
LM2941CT-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-220-5	1.82	1.35	1.00

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM2941S-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-263-5	2.11	1.57	1.16
LM2941SXCT-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-263-5	2.11	1.57	1.16
LM2941SXTR-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-263-5	442.00/500		
LM2941T-ND	Adjustable 1A Low Dropout Voltage Regulator*	TO-220-5	1.82	1.35	1.00
LM2990S-5.0-ND	5V, Negative Low Dropout Regulator*	TO-263	2.88	2.19	1.67
LM2990S-12-ND	12V, Negative Low Dropout Regulator*	TO-263	2.88	2.19	1.67
LM2990S-15-ND	15V, Negative Low Dropout Regulator*	TO-263	2.88	2.19	1.67
LM2990T-5.0-ND	5V, Negative Low Dropout Voltage Regulator*	TO-220	2.88	2.19	1.67
LM2990T-5.2-ND	5.2V, Negative Low Dropout Voltage Regulator*	TO-220	2.88	2.19	1.67
LM2990T-12-ND	12V, Negative Low Dropout Voltage Regulator*	TO-220	2.88	2.19	1.67
LM2991S-ND	Neg. Adjustable Low Dropout Voltage Regulator*	TO-263-5	2.88	2.19	1.67
LM2991T-ND	Neg. Adjustable Low Dropout Voltage Regulator*	TO-220	2.88	2.19	1.67
LM3075MTC-ND	High Efficiency, Sync. Current Mode Buck Controller*	20-TSSOP	4.28	3.25	2.48
LM3100MH-ND	SIMPLE SWITCHER® Sync. 1MHz, 1.5A Buck Voltage Regulator*	20-TSSOP	5.95	4.53	3.46
LM3102MH-ND	SIMPLE SWITCHER® Sync. 1MHz, 2.5A Step-Down Voltage Regulator*	20-TSSOP	5.29	4.19	3.36
LM3103MH-ND	SIMPLE SWITCHER® Sync. 1MHz, 0.75A Step-Down Voltage Regulator*	16-TSSOP	4.75	3.61	2.76
LM3211MT-ADJ-ND	Step Up PWM DC-DC Converter	20-TSSOP	3.55	2.70	2.06
LM3224MM-ADJCT-ND	Adj., 615kHz/1.25MHz Step Up PWM DC-DC Converter*	8-MSOP	2.63	2.00	1.53
LM3224MM-ADJTR-ND	Adj., 615kHz/1.25MHz Step Up PWM DC-DC Converter*	8-MSOP	1323.00/1,000		
LM3302N-ND	Quad Comparator*	14-Dip	1.05	.78	.57
LM3310SQCT-ND	Step-Up PWM DC-DC Converter	24-LLP	2.98	2.27	1.73
LM3310SQTR-ND	Step-Up PWM DC-DC Converter	24-LLP	1499.40/1,000		
LM3311SQCT-ND	Step-Up PWM DC-DC Converter*	24-LLP	2.98	2.27	1.73
LM3311SQTR-ND	Step-Up PWM DC-DC Converter*	24-LLP	1499.40/1,000		
LM3350MMCT-ND	Switched Capacitor Voltage Converter, 90% Eff.	8-MSOP	2.02	1.50	1.11
LM3350MMTR-ND	Switched Capacitor Voltage Converter, 90% Eff.	8-MSOP	832.00/1,000		
LM3351MMCT-ND	Switched Capacitor Voltage Converter, 95% Eff.*	8-MSOP	2.02	1.50	1.11
LM3351MMTR-ND	Switched Capacitor Voltage Converter, 95% Eff.*	8-MSOP	832.00/1,000		
LM3352MTC-2.5-ND	2.5V, Regulated 200mA Buck-Boost Switched Capacitor DC-DC Converter	16-TSSOP	3.53	2.68	2.05
LM3352MTC-3.0-ND	3V, Regulated 200mA Buck-Boost Switched Capacitor DC-DC Converter*	16-TSSOP	3.53	2.68	2.05
LM3352MTC-3.3-ND	3.3V, Regulated 200mA Buck-Boost Switched Capacitor DC-DC Converter*	16-TSSOP	3.53	2.68	2.05
LM3354MM-1.8CT-ND	1.8V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	3.00	2.28	1.74
LM3354MM-1.8TR-ND	1.8V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	1512.00/1,000		
LM3354-1.8EVAL-ND	Evaluation Board for LM3354-1.8*	—	85.50	—	—
LM3354MM-3.3CT-ND	3.3V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	3.00	2.28	1.74
LM3354MM-3.3TR-ND	3.3V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	1512.00/1,000		
LM3354MM-3.7CT-ND	3.7V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	3.00	2.28	1.74
LM3354MM-3.7TR-ND	3.7V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	1512.00/1,000		
LM3354MM-4.1CT-ND	4.1V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	3.00	2.28	1.74
LM3354MM-4.1TR-ND	4.1V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	1512.00/1,000		
LM3354MM-5.0CT-ND	5V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	3.00	2.28	1.74
LM3354MM-5.0TR-ND	5V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	1512.00/1,000		
LM3370TL-3006CT-ND	Dual Sync. Step-Down DC-DC Converter with Dynamic Voltage Scaling Function*	20-microSMD	3.73	2.84	2.17
LM3370TL-3006TR-ND	Dual Sync. Step-Down DC-DC Converter with Dynamic Voltage Scaling Function*	20-microSMD	495.43/250		
LM3370TL-3008CT-ND	Dual Sync. Step-Down DC-DC Converter with Dynamic Voltage Scaling Function*	20-microSMD	3.73	2.84	2.17
LM3370TL-3008TR-ND	Dual Sync. Step-Down DC-DC Converter with Dynamic Voltage Scaling Function*	20-microSMD	495.43/250		
LM3370TL-3022CT-ND	Dual Sync. Step-Down DC-DC Converter with Dynamic Voltage Scaling Function* ***NEW!***	20-microSMD	3.73	2.84	2.17
LM3370TL-3022TR-ND	Dual Sync. Step-Down DC-DC Converter with Dynamic Voltage Scaling Function* ***NEW!***	20-microSMD	495.43/250		
LM3370TL-3206CT-ND	Dual Sync. Step-Down DC-DC Converter with Dynamic Voltage Scaling Function*	20-microSMD	3.73	2.84	2.17
LM3370TL-3206TR-ND	Dual Sync. Step-Down DC-DC Converter with Dynamic Voltage Scaling Function*	20-microSMD	495.43/250		
LM3370TL-3607CT-ND	Dual Sync. Step-Down DC-DC Converter with Dynamic Voltage Scaling Function*	20-microSMD	3.73	2.84	2.17
LM3370TL-3607TR-ND	Dual Sync. Step-Down DC-DC Converter with Dynamic Voltage Scaling Function*	20-microSMD	495.43/250		
LM3370TL-3806CT-ND	Dual Sync. Step-Down DC-DC Converter with Dynamic Voltage Scaling Function*	20-microSMD	3.73	2.84	2.17
LM3370TL-3806TR-ND	Dual Sync. Step-Down DC-DC Converter with Dynamic Voltage Scaling Function*	20-microSMD	495.43/250		
LM3401MMCT-ND	Hysteretic PFET Controller for High Power LED Drive*	8-MSOP	2.73	2.08	1.59
LM3401MMTR-ND	Hysteretic PFET Controller for High Power LED Drive*	8-MSOP	1373.40/1,000		
LM3402EVAL-ND	Evaluation Board for LM3402*	—	47.85	—	—
LM3402HVEVAL-ND	Evaluation Board for LM3402HV*	—	47.85	—	—
LM3402HVMMCT-ND	0.5A Constant Current Buck Regulator*	8-MSOP	3.20	2.44	1.86
LM3402HVMMTR-ND	0.5A Constant Current Buck Regulator*	8-MSOP	1612.80/1,000		
LM3402MMCT-ND	0.5A Constant Current Buck Regulator*	8-MSOP	2.63	2.00	1.53
LM3402MMTR-ND	0.5A Constant Current Buck Regulator*	8-MSOP	1323.00/1,000		
LM3404EVAL-ND	Evaluation Board for LM3404	—	42.43	—	—
LM3404HVEVAL-ND	Evaluation Board for LM3404HV	—	42.43	—	—
LM3404HVMA-ND	1.0A Constant Current Buck Regulator*	8-SOIC	4.40	3.35	2.56
LM3404HVMR-ND	1.0A, Constant Current Buck Regulator*	8-PSOP	4.63	3.52	2.69
LM3404MA-ND	1.0A Constant Current Buck Regulator*	8-SOIC	3.20	2.44	1.86
LM3404MR-ND	1.0A, Constant Current Buck Regulator*	8-PSOP	3.45	2.63	2.01
LM3404MREVAL-ND	Evaluation Board for LM3404MR*	—	47.85	—	—
LM3405XMKCT-ND	1.6MHz, 1.0A Constant Current Buck Regulator*	TSOT-6	2.63	2.00	1.53
LM3405XMKTR-ND	1.6MHz, 1.0A Constant Current Buck Regulator*	TSOT-6	1323.00/1,000		
LM3405XEVAL-ND	Evaluation Board for LM3405X*	—	51.60	—	—
LM3410XMFCT-ND	1.6MHz, Constant Current Boost and SEPIC LED Driver* ***NEW!***	SOT-23-5	2.98	2.27	1.73

**** RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM3410XMFTR-ND	1.6MHz, Constant Current Boost and SEPIC LED Driver* ***NEW!***	SOT-23-5	1499.40/1,000		
LM3410XSDCT-ND	1.6MHz, Constant Current Boost and SEPIC LED Driver* ***NEW!***	6-LLP	2.98	2.27	1.73
LM3410XSDTR-ND	1.6MHz, Constant Current Boost and SEPIC LED Driver* ***NEW!***	6-LLP	1499.40/1,000		
LM3410YMFCT-ND	525kHz, Constant Current Boost and SEPIC LED Driver* ***NEW!***	SOT-23-5	2.98	2.27	1.73
LM3410YMFTR-ND	525kHz, Constant Current Boost and SEPIC LED Driver* ***NEW!***	SOT-23-5	1499.40/1,000		
LM3410YSDCT-ND	525kHz, Constant Current Boost and SEPIC LED Driver* ***NEW!***	6-LLP	2.98	2.27	1.73
LM3410YSDTR-ND	525kHz, Constant Current Boost and SEPIC LED Driver* ***NEW!***	6-LLP	1499.40/1,000		
LM3411AM5-3.3CT-ND	3.3V, Precision Secondary Regulator/Driver, A Grade	SOT-23-5	1.86	1.38	1.02
LM3411AM5-3.3TR-ND	3.3V, Precision Secondary Regulator/Driver, A Grade	SOT-23-5	768.00/1,000		
LM3411AM5-5.0CT-ND	5V, Precision Secondary Regulator/Driver, A Grade*	SOT-23-5	1.86	1.38	1.02
LM3411AM5-5.0TR-ND	5V, Precision Secondary Regulator/Driver, A Grade*	SOT-23-5	768.00/1,000		
LM3411M5-3.3CT-ND	3.3V, Precision Secondary Regulator/Driver	SOT-23-5	1.69	1.24	.90
LM3411M5-3.3TR-ND	3.3V, Precision Secondary Regulator/Driver	SOT-23-5	585.00/1,000		
LM3411M5-5.0CT-ND	5V, Precision Secondary Regulator/Driver	SOT-23-5	1.69	1.24	.90
LM3411M5-5.0TR-ND	5V, Precision Secondary Regulator/Driver	SOT-23-5	585.00/1,000		
LM3420AM5-8.2CT-ND	8.2V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	2.45	1.82	1.35
LM3420AM5-8.2TR-ND	8.2V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	1011.20/1,000		
LM3420AM5-8.4CT-ND	8.4V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	2.45	1.82	1.35
LM3420AM5-8.4TR-ND	8.4V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	1011.20/1,000		
LM3420AM5-16.8CT-ND	16.8V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	2.45	1.82	1.35
LM3420AM5-16.8TR-ND	16.8V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	1011.20/1,000		
LM3420M5-8.2CT-ND	8.2V, Lithium-Ion Battery Charge Controller	SOT-23-5	2.14	1.59	1.18
LM3420M5-8.2TR-ND	8.2V, Lithium-Ion Battery Charge Controller	SOT-23-5	883.20/1,000		
LM3420M5-16.8CT-ND	16.8V, Lithium-Ion Battery Charge Controller	SOT-23-5	2.14	1.59	1.18
LM3420M5-16.8TR-ND	16.8V, Lithium-Ion Battery Charge Controller	SOT-23-5	883.20/1,000		
LM3430EVAL-ND	Evaluation Board for LM3430*	—	120.45	—	—
LM3431AMH-ND	3-Channel Constant Current LED Driver* ***NEW!***	28-TSSOP	4.88	3.71	2.83
LM3431MH-ND	3-Channel Constant Current LED Driver* ***NEW!***	28-TSSOP	4.63	3.52	2.69
LM3432SQCT-ND	6-Channel LED Current Regulator*	24-LLP	3.80	2.89	2.21
LM3432SQTR-ND	6-Channel LED Current Regulator*	24-LLP	1915.20/1,000		
LM3460M5-1.5CT-ND	1.5V, Prec. Controller for GTLp/GTL Bus Termination	SOT-23-5	2.20	1.64	1.21
LM3460M5-1.5TR-ND	1.5V, Prec. Controller for GTLp/GTL Bus Termination	SOT-23-5	908.80/1,000		
LM3475MFCT-ND	Hysteretic PFET Buck Controller*	SOT-23-5	1.78	1.31	.95
LM3475MFTR-ND	Hysteretic PFET Buck Controller*	SOT-23-5	617.50/1,000		
LM3477AMMCT-ND	High Eff. High Side N-Ch. Controller for Switching Reg	8-MSOP	2.65	1.97	1.46
LM3477AMMTR-ND	High Eff. High Side N-Ch. Controller for Switching Reg	8-MSOP	1094.40/1,000		
LM3477MMCT-ND	High Eff. High Side N-Ch. Controller for Switching Reg	8-MSOP	2.65	1.97	1.46
LM3477MMTR-ND	High Eff. High Side N-Ch. Controller for Switching Reg	8-MSOP	1094.40/1,000		
LM3478MMCT-ND	High Eff. Low-Side N-Ch. Controller for Switching Reg.*	8-MSOP	2.62	1.95	1.44
LM3478MMTR-ND	High Eff. Low-Side N-Ch. Controller for Switching Reg.*	8-MSOP	1081.60/1,000		
LM3480IM3X-12CT-ND	12V, 100mA Low Dropout Voltage Regulator*	SOT-23	1.13	.83	.60
LM3480IM3X-12TR-ND	12V, 100mA Low Dropout Voltage Regulator*	SOT-23	1147.50/3,000		
LM3480IM3-3.3CT-ND	3.3V, 100mA Low Dropout Voltage Regulator*	SOT-23	1.13	.83	.60
LM3480IM3-3.3TR-ND	3.3V, 100mA Low Dropout Voltage Regulator*	SOT-23	390.00/1,000		
LM3480IM3-5.0CT-ND	5.0V, 100mA Low Dropout Voltage Regulator*	SOT-23	1.13	.83	.60
LM3480IM3-5.0TR-ND	5.0V, 100mA Low Dropout Voltage Regulator*	SOT-23	390.00/1,000		
LM3485MMCT-ND	Hysteric PFET Buck Controller*	8-MSOP	1.56	1.16	.86
LM3485MMTR-ND	Hysteric PFET Buck Controller*	8-MSOP	645.12/1,000		
LM3485EVAL-ND	Evaluation Board for LM3485*	—	38.25	—	—
LM3488MMCT-ND	High Eff. Low Side N-Ch. Controller for Switching Reg.*	8-MSOP	2.77	2.06	1.52
LM3488MMTR-ND	High Eff. Low Side N-Ch. Controller for Switching Reg.*	8-MSOP	1143.04/1,000		
LM3489MMCT-ND	Hysteretic PFET Buck Controller with Enable Pin*	8-MSOP	1.77	1.32	.97
LM3489MMTR-ND	Hysteretic PFET Buck Controller with Enable Pin*	8-MSOP	729.60/1,000		
LM3490IM5-3.3CT-ND	3.3V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF*	SOT-23-5	1.16	.86	.62
LM3490IM5-3.3TR-ND	3.3V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF*	SOT-23-5	403.00/1,000		
LM3490IM5-5.0CT-ND	5V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF*	SOT-23-5	1.16	.86	.62
LM3490IM5-5.0TR-ND	5V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF*	SOT-23-5	403.00/1,000		
LM3490IM5-12CT-ND	12V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF*	SOT-23-5	1.16	.86	.62
LM3490IM5-12TR-ND	12V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF*	SOT-23-5	403.00/1,000		
LM3490IM5-15CT-ND	15V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF.	SOT-23-5	1.16	.86	.62
LM3490IM5-15TR-ND	15V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF.	SOT-23-5	403.00/1,000		
LM3495MTC-ND	Emulated Peak Current Mode Buck Controller for Low Output Voltage*	16-TSSOP	5.75	4.37	3.34
LM3495MTCXCT-ND	Emulated Peak Current Mode Buck Controller for Low Output Voltage*	16-TSSOP	5.75	4.37	3.34
LM3495MTCXTR-ND	Emulated Peak Current Mode Buck Controller for Low Output Voltage*	16-TSSOP	7187.50/2,500		
LM3500TL-16-ND	Sync. Step-Up DC-DC Converter	8-microSMD	3.33	2.53	1.93
LM3500TL-16EV-ND	Evaluation Board for LM3500TL-16*	—	100.80	—	—
LM3500TL-21CT-ND	Sync. Step-Up DC-DC Converter	8-microSMD	3.50	2.66	2.03
LM3500TL-21TR-ND	Sync. Step-Up DC-DC Converter	8-microSMD	465.50/250		
LM3501TL-16CT-ND	Sync. Step-Up DC-DC Converter for White LED	8-SMD	3.58	2.72	2.08
LM3501TL-21CT-ND	Sync. Step-Up DC-DC Converter for White LED*	8-microSMD	3.58	2.72	2.08
LM3501TL-21TR-ND	Sync. Step-Up DC-DC Converter for White LED*	8-microSMD	475.48/250		
LM3501TL-16EV-ND	Evaluation Board for LM3501TL-16*	—	100.80	—	—
LM3502ITL-16CT-ND	16V Step-Up Converter for White LED	10-microSMD	5.00	3.80	2.90
LM3502ITL-16TR-ND	16V Step-Up Converter for White LED*	10-microSMD	665.00/250		
LM3502ITL-25CT-ND	25V Step-Up Converter for White LED	10-microSMD	5.08	3.86	2.95
LM3502ITL-25TR-ND	25V Step-Up Converter for White LED	10-microSMD	674.98/250		
LM3502ITL-44CT-ND	44V Step-Up Converter for White LED	10-microSMD	6.10	4.64	3.54
LM3502ITL-44TR-ND	44V Step-Up Converter for White LED	10-microSMD	811.30/250		
LM3502ITL-44EV-ND	Evaluation Board for LM3502ITL-44*	—	121.20	—	—
LM3502SQ-16CT-ND	16V Step-Up Converter for White LED*	16-LLP	4.58	3.48	2.66
LM3502SQ-16TR-ND	16V Step-Up Converter for White LED*	16-LLP	2305.80/1,000		
LM3502SQ-25CT-ND	25V Step-Up Converter for White LED	16-LLP	4.85	3.69	2.82
LM3502SQ-25TR-ND	25V Step-Up Converter for White LED	16-LLP	2444.40/1,000		
LM3502SQ-35CT-ND	35V Step-Up Converter for White LED*	16-LLP	5.33	4.05	3.09
LM3502SQ-35TR-ND	35V Step-Up Converter for White LED*	16-LLP	2683.80/1,000		
LM3502SQ-44CT-ND	44V Step-Up Converter for White LED*	16-LLP	5.83	4.43	3.38
LM3502SQ-44TR-ND	44V Step-Up Converter for White LED*	16-LLP	2935.80/1,000		
LM3503ITL-16CT-ND	16V Dual Display Constant Current LED Driver*	10-microSMD	5.00	3.80	2.90
LM3503ITL-16TR-ND	16V Dual Display Constant Current LED Driver*	10-microSMD	665.00/250		
LM3503ITL-25CT-ND	25V Dual Display Constant Current LED Driver*	10-microSMD	5.08	3.86	2.95
LM3503ITL-25TR-ND	25V Dual Display Constant Current LED Driver*	10-microSMD	674.98/250		
LM3503ITL-25EV-ND	Evaluation Board for LM3503ITL-25*	—	121.20	—	—
LM3503ITL-35CT-ND	35V Dual Display Constant Current LED Driver	10-microSMD	5.60	4.26	3.25
LM3503ITL-35TR-ND	35V Dual Display Constant Current LED Driver	10-microSMD	744.80/250		
LM3503ITL-44CT-ND	44V Dual Display Constant Current LED Driver	10-microSMD	6.10	4.64	3.54
LM3503ITL-44TR-ND	44V Dual Display Constant Current LED Driver	10-microSMD	811.30/250		
LM3503SQ-16CT-ND	16V Dual Display Constant Current LED Driver	16-LLP	4.58	3.48	2.66
LM3503SQ-16TR-ND	16V Dual Display Constant Current LED Driver	16-LLP	2305.80/1,000		
LM3503SQ-25CT-ND	25V Dual Display Constant Current LED Driver	16-LLP	4.85	3.69	2.82
LM3503SQ-25TR-ND	25V Dual Display Constant Current LED Driver	16-LLP	2444.40/1,000		
LM3503SQ-35CT-ND	35V Dual Display Constant Current LED Driver	16-LLP	5.33	4.05	3.09
LM3503SQ-35TR-ND	35V Dual Display Constant Current LED Driver	16-LLP	2683.80/1,000		
LM3503SQ-44CT-ND	44V Dual Display Constant Current LED Driver*	16-LLP	5.83	4.43	3.38
LM3503SQ-44TR-ND	44V Dual Display Constant Current LED Driver*	16-LLP	2935.80/1,000		
LM3508TLCT-ND	Sync. Magnetic Constant Current White LED Driver*	8-MSOP	2.63	2.00	1.53
LM3508TLTR-ND	Sync. Magnetic Constant Current White LED Driver*	8-MSOP	349.13/250		
LM3509SDCT-ND	High Efficiency Boost White LED/OLED*	10-LLP	4.75	3.61	2.76
LM3509SDTR-ND	High Efficiency Boost White LED/OLED*	10-LLP	2394.00/1,000		
LM3519MK-20CT-ND	20V High Frequency Boost White LED Driver*	SOT-23-6	2.85	2.17	1.66
LM3519MK-20TR-ND	20V High Frequency Boost White LED Driver*	SOT-23-6	1436.40/1,000		
LM3520SDCT-ND	Integrated White LED Driver	14-LLP	6.18	4.70	3.59
LM3520SDTR-ND	Integrated White LED Driver	14-LLP	3112.20/1,000		
LM3524DM-ND	Regulating Pulse Width Modulator*	16-SOIC	1.58	1.18	.87
LM3524DN-ND	Regulating Pulse Width Modulator*	16-Dip	1.98	1.47	1.09
LM3525M-H-ND	Single Port USB Power Switch/Over-Current Protection*	8-SOIC	1.98	1.48	1.09
LM3525M-L-ND	Single Port USB Power Switch/Over-Current Protection*	8-SOIC	1.98	1.48	1.09
LM3526M-H-ND	Dual Port USB Power Switch/Over-Current Protection*	8-SOIC	2.26	1.68	1.25
LM3526M-L-ND	Dual Port USB Power Switch/Over-Current Protection*	8-SOIC	2.26	1.68	1.25
LM3544M-H-ND	Quad Port USB Power Switch/Over-Current Protection*	16-SOIC	3.83	2.91	2.22
LM3551SDCT-ND	1A White LED Driver*	14-LLP	2.63	2.00	1.53
LM3551SDTR-ND	1A White LED Driver*	14-LLP	1323.00/1,000		
LM3552SDCT-ND	1A White LED Driver*	14-LLP	2.63	2.00	1.53
LM3552SDTR-ND	1A White LED Driver*	14-LLP	1323.00/1,000		
LM3552SDEV-ND	Evaluation Board for LM3552SD*	—	144.15	—	—
LM3557SD-2CT-ND	Step-Up Converter for White LED Applications*	8-LLP	2.83	2.10	1.56
LM3557SD-2TR-ND	Step-Up Converter for White LED Applications*	8-LLP	1167.36/1,000		
LM3570SDCT-ND	Low Noise White LED Driver System	14-LLP	3.33	2.53	1.93
LM3570SDTR-ND	Low Noise White LED Driver System	14-LLP	1675.80/1,000		
LM3578AM-ND	Switching Regulator*	8-SOIC	2.11	1.57	1.16
LM3578AMXTR-ND	Switching Regulator*	8-SOIC	2125.00/2,500		
LM3578AN-ND	Switching Regulator*	8-Dip	2.11	1.57	1.16
LM3590MFCT-ND	Triple White LED Driver*	SOT-23-5	1.43	1.05	.76
LM3590MFTR-ND	Triple White LED Driver*	SOT-23-5	494.00/1,000		
LM3590MFEV-ND	Evaluation Board for LM3590MF*	—	93.15	—	—
LM3595LDCT-ND	Quad Parallel White LED Driver*	10-LLP	2.65	1.97	1.46
LM3595LDTR-ND	Quad Parallel White LED Driver*	10-LLP	1094.40/1,000		
LM3595LDEV-ND	Evaluation Board for LM3595LD*	—	95.70	—	—
LM3622AM-4.1-ND	4.1V, Lithium-Ion Battery Charger Controller	8-SOIC	2.78	2.11	1.61
LM3622AM-4.2-ND	4.2V, Lithium-Ion Battery Charger Controller*	8-SOIC	2.78	2.11	1.61
LM3622AM-8.2-ND	8.2V, Lithium-Ion Battery Charger Controller	8-SOIC	2.78	2.11	1.61
LM3622AM-8.4-ND	8.4V, Lithium-Ion Battery Charger Controller*	8-SOIC	2.78	2.11	1.61
LM3622M-4.1-ND	4.1V, Lithium-Ion Battery Charger Controller	8-SOIC	2.64	1.96	1.45
LM3622M-4.2-ND	4.2V, Lithium-Ion Battery Charger Controller*	8-SOIC	2.64	1.96	1.45
LM3622M-8.2-ND	8.2V, Lithium-Ion Battery Charger Controller	8-SOIC	2.64	1.96	1.45
LM3622M-8.4-ND	8.4V, Lithium-Ion Battery Charger Controller	8-SOIC	2.64	1.96	1.45
LM3658SD-ACT-ND	Dual Source USB/AC Li Chemistry Charger*	10-LLP	1.92	1.43	1.06
LM3658SD-ATR-ND	Dual Source USB/AC Li Chemistry Charger*	10-LLP	793.60/1,000		
LM3658SD-BCT-ND	Dual Source USB/AC Li Chemistry Charger w/LDO Mode*	10-LLP	1.92	1.43	1.06
LM3658SD-BTR-ND	Dual Source USB/AC Li Chemistry Charger w/LDO Mode*	10-LLP	793.60/1,000		
LM3658SDCT-ND	Dual Source USB/AC Li Chemistry Charger IC*	10-LLP	1.92	1.43	1.06
LM3658SDTR-ND	Dual Source USB/AC Li Chemistry Charger IC*	10-LLP	793.60/1,000		
LM3668SD-3.3CT-ND	1A Dual High Efficiency DC/DC Converter*	12-LLP	5.48	4.34	3.48
LM3668SD-3.3TR-ND	1A Dual High Efficiency DC/DC Converter*	12-LLP	3236.40/1,000		
LM3670MF-ADJCT-ND	Adj., Mini Buck DC-DC Converter	SOT-23-5	2.79	2.07	1.53
LM3670MF-ADJTR-ND	Adj., Mini Buck DC-DC Converter	SOT-23-5	1152.00/1,000		
LM3670MF-1.2CT-ND	1.2V, Mini Buck DC-DC Converter*	SOT-23-5	2.79	2.07	1.53
LM3670MF-1.2TR-ND	1.2V, Mini Buck DC-DC Converter*	SOT-23-5	1152.00/1,000		
LM3670MF-1.5CT-ND	1.5V, Mini Buck DC-DC Converter*	SOT-23-5	2.79	2.07	1.53
LM3670MF-1.5TR-ND	1.5V, Mini Buck DC-DC Converter*	SOT-23-5	1152.00/1,000		
LM3670MF-1.6CT-ND	1.6V, Mini Buck DC-DC Converter*	SOT-23-5	2.79	2.07	1.53
LM3670MF-1.6TR-ND	1.6V, Mini Buck DC-DC Converter*	SOT-23-5	1152.00/1,000		
LM3670MF-1.8CT-ND	1.8V, Mini Buck DC-DC Converter*	SOT-23-5	2.79	2.07	1.53
LM3670MF-1.8TR-ND	1.8V, Mini Buck DC-DC Converter*	SOT-23-5	1152.00/1,000		
LM3670MF-1.875CT-ND	1.875V, Mini Buck DC-DC Converter*	SOT-23-5	2.79	2.07	1.53
LM3670MF-1.875TR-ND	1.875V, Mini Buck DC-DC Converter*	SOT-23-5	1152.00/1,000		
LM3670MF-2.5CT-ND	2.5V, Mini Buck DC-DC Converter*	SOT-23-5	2.79	2.07	1.53
LM3670MF-2.5TR-ND	2.5V, Mini Buck DC-DC Converter*	SOT-23-5	1152.00/1,000		
LM3670MF-3.3CT-ND	3.3V, Mini Buck DC-DC Converter*	SOT-23-5	2.79	2.07	1.53
LM3670MF-3.3TR-ND	3.3V, Mini Buck DC-DC Converter*	SOT-23-5	1152.00/1,000		
LM3670MFX-ADJCT-ND	Adj., Mini Buck DC-DC Converter*	SOT-23-5	2.79	2.07	1.53
LM3670MFX-ADJTR-ND	Adj., Mini Buck DC-DC Converter*	SOT-23-5	3375.00/3,000		
LM3671MF-ADJCT-ND	Adj., 600mA Buck DC-DC Converter*	SOT-23-5	2.55	1.94	1.48
LM3671MF-ADJTR-ND	Adj., 600mA Buck DC-DC Converter*	SOT-23-5	1285.20/1,000		
LM3671MF-1.2CT-ND	1.2V, 600mA Buck DC-DC Converter*	SOT-23-5	2.55	1.94	1.48
LM3671MF-1.2TR-ND	1.2V, 600mA Buck DC-DC Converter*	SOT-23-5	1285.20/1,000		
LM3671MF-1.25CT-ND	1.25V, 600mA Buck DC-DC Converter	SOT-23-5	2.55	1.94	1.48
LM3671MF-1.25TR-ND	1.25V, 600mA Buck DC-DC Converter	SOT-23-5	1285.20/1,000		
LM3671MF-1.375CT-ND	1.375V, 600mA Buck DC-DC Converter*	SOT-23-5	2.55	1.94	1.48
LM3671MF-1.375TR-ND	1.375V, 600mA Buck DC-DC Converter*	SOT-23-5	1285.20/1,000		
LM3671MF-1.5CT-ND	1.5V, 600mA Buck DC-DC Converter	SOT-23-5	2.55	1.94	1.48
LM3671MF-1.5TR-ND	1.5V, 600mA Buck DC-DC Converter	SOT-23-5	1285.20/1,000		
LM3671MF-1.6CT-ND	1.6V, 600mA Buck DC-DC Converter	SOT-23-5	2.55	1.94	1.48
LM3671MF-1.6TR-ND	1.6V, 600mA Buck DC-DC Converter	SOT-23-5	1285.20/1,000		
LM3671MF-1.8CT-ND	1.8V, 600mA Buck DC-DC Converter	SOT-23-5	2.55	1.94	1.48
LM3671MF-1.8TR-ND	1.8V, 600mA Buck DC-DC Converter	SOT-23-5	1285.20/1,000		
LM3671MF-1.875CT-ND	1.875V, 600mA Buck DC-DC Converter*	SOT-23-5	2.55	1.94	1.48
LM3671MF-1.875TR-ND	1.875V, 600mA Buck DC-DC Converter*	SOT-23-5	1285.20/1,000		
LM3671TL-1.2CT-ND	1.2V, 600mA Buck DC-DC Converter*	5-microSMD	2.68	2.04	1.56
LM3671TL-1.2TR-ND	1.2V, 600mA Buck DC-DC Converter*	5-microSMD	355.78/250		
LM3671TL-1.5CT-ND	1.5V, 600mA Buck DC-DC Converter*	5-microSMD	2.68	2.04	1.56
LM3671TL-1.5TR-ND	1.5V, 600mA Buck DC-DC Converter*	5-microSMD	355.78/250		
LM3671TL-1.8CT-ND	1.8V, 600mA Buck DC-DC Converter*	5-microSMD	2.68	2.04	1.56

***** *RoHS Compliant*

(Continued)

LINEAR SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM3671TL-1.8TR-ND	1.8V, 600mA Buck DC-DC Converter*	5-microSMD	355.78/250		
LM3671TL-1.875CT-ND	1.875V, 600mA Buck DC-DC Converter*	5-microSMD	2.68	2.04	1.56
LM3671TL-1.875TR-ND	1.875V, 600mA Buck DC-DC Converter*	5-microSMD	355.78/250		
LM3676SD-1.5CT-ND	1.5V, 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	2.90	2.21	1.69
LM3676SD-1.5TR-ND	1.5V, 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	1461.60/1,000		
LM3676SD-1.8CT-ND	1.8V, 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	2.90	2.21	1.69
LM3676SD-1.8TR-ND	1.8V, 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	1461.60/1,000		
LM3676SD-3.3CT-ND	3.3V, 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	2.90	2.21	1.69
LM3676SD-3.3TR-ND	3.3V, 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	1461.60/1,000		
LM3676SD-ADJCT-ND	Adj., 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	2.90	2.21	1.69
LM3676SD-ADJTR-ND	Adj., 2MHz, 600mA Step-Down DC-DC Converter*	8-LLP	1461.60/1,000		
LM3677TL-1.3CT-ND	1.3V, Mini Buck DC-DC Converter*	5-microSMD	3.58	2.72	2.08
LM3677TL-1.3TR-ND	1.3V, Mini Buck DC-DC Converter*	5-microSMD	475.48/250		
LM3677TL-1.5CT-ND	1.5V, Mini Buck DC-DC Converter*	5-microSMD	3.58	2.72	2.08
LM3677TL-1.5TR-ND	1.5V, Mini Buck DC-DC Converter*	5-microSMD	475.48/250		
LM3677TL-1.8CT-ND	1.8V, Mini Buck DC-DC Converter*	5-microSMD	3.58	2.72	2.08
LM3677TL-1.8TR-ND	1.8V, Mini Buck DC-DC Converter*	5-microSMD	475.48/250		
LM3677TL-2.5CT-ND	2.5V, Mini Buck DC-DC Converter*	5-microSMD	3.58	2.72	2.08
LM3677TL-2.5TR-ND	2.5V, Mini Buck DC-DC Converter*	5-microSMD	475.48/250		
LM3700XCBP-290CT-ND	2.9V, Microprocessor Supervisory Circuit	9-microSMD	1.43	1.05	.76
LM3700XCBP-290TR-ND	2.9V, Microprocessor Supervisory Circuit	9-microSMD	142.50/250		
LM3702XCBP-308CT-ND	3.08V, MPU Supervisory Circuit with Manual Reset	9-microSMD	1.61	1.18	.86
LM3702XCBP-308TR-ND	3.08V, MPU Supervisory Circuit with Manual Reset	9-microSMD	160.50/250		
LM3702YABP-290CT-ND	2.9V, MPU Supervisory Circuit with Manual Reset	9-microSMD	1.61	1.18	.86
LM3702YABP-290TR-ND	2.9V, MPU Supervisory Circuit with Manual Reset	9-microSMD	160.50/250		
LM3702YABP-308CT-ND	3.08V, MPU Supervisory Circuit with Manual Reset	9-microSMD	1.61	1.18	.86
LM3702YABP-308TR-ND	3.08V, MPU Supervisory Circuit with Manual Reset	9-microSMD	160.50/250		
LM3703XCBP-308CT-ND	3.08V, MPU Supervisory Circuit with Manual Reset	9-microSMD	1.61	1.18	.86
LM3703XCBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Manual Reset	9-microSMD	160.50/250		
LM3704XBMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XBMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704XBMM-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XBMM-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704XCMM-263CT-ND	2.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XCMM-263TR-ND	2.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704XCMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XCMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704XDMM-220CT-ND	2.2V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XDMM-220TR-ND	2.2V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704XDMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XDMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704XDMM-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XDMM-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704YAMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704YAMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704YBMM-360CT-ND	3.60V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704YBMM-360TR-ND	3.60V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704YCMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704YCMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704YCMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704YCMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3705XCMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3705XCMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3706XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	2.80	2.08	1.54
LM3706XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	304.76/250		
LM3708XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	2.95	2.19	1.62
LM3708XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	320.63/250		
LM3708XQTP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output*	9-microSMD	2.95	2.19	1.62
LM3708XQTP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output*	9-microSMD	320.63/250		
LM3709XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	2.95	2.19	1.62
LM3709XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	320.63/250		
LM3710XKMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3710XKMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3710XKMM-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3710XKMM-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3710XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
LM3710XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	379.05/250		
LM3710XQMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3710XQMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3710YQMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3710YQMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3711XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
LM3711XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	379.05/250		
LM3711XQMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3711XQMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3712XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
LM3712XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	379.05/250		
LM3713XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
LM3713XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	379.05/250		
LM3722EM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3722EM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3722EM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3722EM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3722EM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3722EM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3722IM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3722IM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3722IM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit*	SOT-23-5	2.36	1.75	1.30
LM3722IM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit*	SOT-23-5	972.80/1,000		
LM3722IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit*	SOT-23-5	2.36	1.75	1.30
LM3722IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit*	SOT-23-5	972.80/1,000		
LM3723EM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3723EM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3723EM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit*	SOT-23-5	2.80	2.08	1.54
LM3723EM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit*	SOT-23-5	1155.84/1,000		
LM3723EM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3723EM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3723IM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3723IM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3723IM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3723IM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3723IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit*	SOT-23-5	2.36	1.75	1.30
LM3723IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit*	SOT-23-5	972.80/1,000		
LM3724EM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3724EM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3724EM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3724EM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3724EM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3724EM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3724IM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit*	SOT-23-5	2.36	1.75	1.30
LM3724IM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit*	SOT-23-5	972.80/1,000		
LM3724IM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3724IM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3724IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit*	SOT-23-5	2.36	1.75	1.30
LM3724IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit*	SOT-23-5	972.80/1,000		
LM3743MM-1000CT-ND	N-Channel FET Synchronous Buck Controller*	10-MSOP	2.63	2.00	1.53
LM3743MM-1000TR-ND	N-Channel FET Synchronous Buck Controller*	10-MSOP	1323.00/1,000		
LM3743MM-300CT-ND	N-Channel FET Synchronous Buck Controller*	10-MSOP	2.38	1.81	1.38
LM3743MM-300TR-ND	N-Channel FET Synchronous Buck Controller*	10-MSOP	1197.00/1,000		
LM3812M-1.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.20	2.44	1.86
LM3812M-7.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side*	8-SOIC	3.20	2.44	1.86
LM3813M-1.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side*	8-SOIC	3.20	2.44	1.86
LM3813M-7.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.20	2.44	1.86
LM3814M-1.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.20	2.44	1.86
LM3814M-7.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.20	2.44	1.86
LM3815M-1.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.20	2.44	1.86
LM3815M-7.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side*	8-SOIC	3.20	2.44	1.86
LM3875TF-ND	High Performance 56W Audio Power Amp*	TO-220-11	5.90	4.67	3.74
LM3876T-ND	High Performance 56W Audio Power Amp with Mute*	TO-220-11	5.36	4.24	3.40
LM3876TF-ND	High Performance 56W Audio Power Amp with Mute*	TO-220-11	5.71	4.52	3.62
LM3880MF-1AACT-ND	2.7V to 5.5V Power Sequencer*	SOT-23-6	1.78	1.31	.95
LM3880MF-1AATR-ND	2.7V to 5.5V Power Sequencer*	SOT-23-6	617.50/1,000		
LM3880MF-1ABCT-ND	2.7V to 5.5V Power Sequencer*	SOT-23-6	1.78	1.31	.95
LM3880MF-1ABTR-ND	2.7V to 5.5V Power Sequencer*	SOT-23-6	617.50/1,000		
LM3880MF-1ACCT-ND	2.7V to 5.5V Power Sequencer*	SOT-23-6	1.78	1.31	.95
LM3880MF-1ACTR-ND	2.7V to 5.5V Power Sequencer*	SOT-23-6	617.50/1,000		
LM3880MF-1ADCT-ND	2.7V to 5.5V Power Sequencer*	SOT-23-6	1.78	1.31	.95
LM3880MF-1ADTR-ND	2.7V to 5.5V Power Sequencer*	SOT-23-6	617.50/1,000		
LM3881MMCT-ND	2.7V to 5.5V Power Sequencer* ***NEW!***	8-MSOP	1.78	1.31	.95
LM3881MMTR-ND	2.7V to 5.5V Power Sequencer* ***NEW!***	8-MSOP	617.50/1,000		
LM3886T-ND	High Performance 68W Audio Power Amp with Mute*	TO-220-11	6.62	5.23	4.19
LM3886TF-ND	High Performance 68W Audio Power Amp with Mute*	TO-220-11	6.62	5.23	4.19
LM3914N-1-ND	Dot/Bar Display Driver*	18-Dip	2.87	2.14	1.58
LM3914V-ND	Dot/Bar Graph Display Driver*	20-PLCC	3.48	2.65	2.02

***** *RoHS Compliant*

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM3914VXCT-ND	Dot/Bar Graph Display Driver	20-PLCC	3.48	2.65	2.02
LM3914VXTR-ND	Dot/Bar Graph Display Driver	20-PLCC	1751.40/1,000		
LM3915N-1-ND	Dot/Bar Display Driver*	18-Dip	2.64	1.96	1.45
LM3916N-1-ND	Dot/Bar Display Driver*	18-Dip	2.64	1.96	1.45
LM3940IMP-3.3CT-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion*	SOT-223	1.92	1.43	1.06
LM3940IMP-3.3TR-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion*	SOT-223	793.60/1,000		
LM3940IS-3.3-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion*	TO-263	2.21	1.65	1.22
LM3940ISX-3.3TR-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion*	TO-263	464.10/500		
LM3940IT-3.3-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion*	TO-220	2.06	1.53	1.13
LM4040AIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.1%*	SOT-23	2.15	1.60	1.18
LM4040AIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.1%*	SOT-23	885.76/1,000		
LM4040AIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.1%*	SOT-23	2.15	1.60	1.18
LM4040AIM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference ±.1%*	SOT-23	885.76/1,000		
LM4040AIM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference ±.1%*	SOT-23	2.15	1.60	1.18
LM4040AIM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference ±.1%*	SOT-23	885.76/1,000		
LM4040AIM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference ±.1%	SOT-23	2.15	1.60	1.18
LM4040AIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	885.76/1,000		
LM4040AIM3-10.0CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±.1%*	SOT-23	2.15	1.60	1.18
LM4040AIM3-10.0TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±.1%*	SOT-23	885.76/1,000		
LM4040AIM3X-10CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	2.15	1.60	1.18
LM4040AIM3X-10TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	2595.00/3,000		
LM4040AIZ-2.5-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.1%*	TO-92	2.15	1.60	1.18
LM4040AIZ-4.1-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.1%*	TO-92	2.15	1.60	1.18
LM4040AIZ-5.0-ND	5V, Prec. Micropower Shunt Voltage Reference ±.1%*	TO-92	2.15	1.60	1.18
LM4040AIZ-10.0-ND	10V, Prec. Micropower Shunt Voltage Reference ±.1%*	TO-92	2.15	1.60	1.18
LM4040BIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.2%*	SOT-23	1.63	1.22	.90
LM4040BIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.2%*	SOT-23	674.56/1,000		
LM4040BIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.2%*	SOT-23	1.63	1.22	.90
LM4040BIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.2%*	SOT-23	674.56/1,000		
LM4040BIM3-5.0CT-ND	5V, Prec. Micropower Shunt Voltage Reference ±.2%*	SOT-23	1.63	1.22	.90
LM4040BIM3-5.0TR-ND	5V, Prec. Micropower Shunt Voltage Reference ±.2%*	SOT-23	674.56/1,000		
LM4040BIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	1.63	1.22	.90
LM4040BIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	674.56/1,000		
LM4040BIM3-10.0CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±.2%*	SOT-23	1.63	1.22	.90
LM4040BIM3-10.0TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±.2%*	SOT-23	674.56/1,000		
LM4040BIM7-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.2%*	SC70-5	1.63	1.22	.90
LM4040BIM7-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.2%*	SC70-5	674.56/1,000		
LM4040BIM7-4.1CT-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.2%*	SC70-5	1.63	1.22	.90
LM4040BIM7-4.1TR-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.2%*	SC70-5	674.56/1,000		
LM4040BIZ-2.5-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.2%*	TO-92	1.63	1.22	.90
LM4040BIZ-4.1-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.2%	TO-92	1.63	1.22	.90
LM4040BIZ-5.0-ND	5V, Prec. Micropower Shunt Voltage Reference ±.2%	TO-92	1.63	1.22	.90
LM4040CIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	1.15	.85	.62
LM4040CIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	397.80/1,000		
LM4040CIM3-4.1NSCT-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	1.15	.85	.62
LM4040CIM3-4.1NSTR-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	397.80/1,000		
LM4040CIM3-5.0NSCT-ND	5V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	1.15	.85	.62
LM4040CIM3-5.0NSTR-ND	5V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	397.80/1,000		
LM4040CIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	1.15	.85	.62
LM4040CIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	397.80/1,000		
LM4040CIM3-10.0CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	1.15	.85	.62
LM4040CIM3-10.0TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	397.80/1,000		
LM4040CIM3X-10CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1.15	.85	.62
LM4040CIM3X-10TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1170.45/3,000		
LM4040CIM7-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.5%*	SC-70-5	1.15	.85	.62
LM4040CIM7-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.5%*	SC-70-5	397.80/1,000		
LM4040CIZ-2.5-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.5%*	TO-92	1.15	.85	.62
LM4040CIZ-4.1-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.5%*	TO-92	1.15	.85	.62
LM4040CIZ-5.0-ND	5V, Prec. Micropower Shunt Voltage Reference ±.5%*	TO-92	1.15	.85	.62
LM4040CIZ-8.2-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.5%	TO-92	1.15	.85	.62
LM4040CIZ-10.0-ND	10V, Prec. Micropower Shunt Voltage Reference ±.5%*	TO-92	1.15	.85	.62
LM4040DEM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23	1.05	.77	.56
LM4040DEM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23	362.70/1,000		
LM4040DEM3-5.0CT-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	1.05	.77	.56
LM4040DEM3-5.0TR-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	362.70/1,000		
LM4040DIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23	.99	.73	.53
LM4040DIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23	343.20/1,000		
LM4040DIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23	.99	.73	.53
LM4040DIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23	343.20/1,000		
LM4040DIM3-5.0NSCT-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23	.99	.73	.53
LM4040DIM3-5.0NSTR-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23	343.20/1,000		
LM4040DIM3-10.0CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23	.99	.73	.53
LM4040DIM3-10.0TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%*	SOT-23	343.20/1,000		
LM4040DIM3X-10CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	.99	.73	.53
LM4040DIM3X-10TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	1009.80/3,000		
LM4040DIZ-2.5-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±1%*	TO-92	.99	.73	.53
LM4040DIZ-4.1-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±1%*	TO-92	.99	.73	.53
LM4040DIZ-5.0-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%*	TO-92	.99	.73	.53
LM4040DIZ-8.2-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±1%	TO-92	.99	.73	.53
LM4040DIZ-10.0-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%*	TO-92	.99	.73	.53
LM4040EEM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±2%	SOT-23	.97	.71	.52
LM4040EEM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±2%	SOT-23	335.40/1,000		
LM4040EIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±2%*	SOT-23	.99	.72	.52
LM4040EIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±2%*	SOT-23	309.40/1,000		
LM4040EIZ-2.5-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±2%*	TO-92	.99	.72	.52
LM4041AIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.1%*	SOT-23	2.15	1.60	1.18
LM4041AIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.1%*	SOT-23	885.76/1,000		
LM4041AIZ-1.2-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.1%*	TO-92	2.15	1.60	1.18
LM4041BIZ-1.2-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.2%	TO-92	1.63	1.22	.90
LM4041BIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.2%*	SOT-23	1.63	1.22	.90
LM4041BIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.2%*	SOT-23	674.56/1,000		
LM4041CEM3-ADJCT-ND	Adj. Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	1.19	.88	.64
LM4041CEM3-ADJTR-ND	Adj. Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	412.10/1,000		
LM4041CEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	1.19	.88	.64
LM4041CEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	412.10/1,000		
LM4041CIM3-1.2NSCT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	1.15	.85	.62
LM4041CIM3-1.2NSTR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	397.80/1,000		
LM4041CIM3-ADJCT-ND	Adj. Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	1.15	.85	.62
LM4041CIM3-ADJTR-ND	Adj. Prec. Micropower Shunt Voltage Reference ±.5%*	SOT-23	397.80/1,000		
LM4041CIM7-ADJCT-ND	Adj., Prec. Micropower Shunt Voltage Reference ±.5%*	SC70-5	1.15	.85	.62
LM4041CIM7-ADJTR-ND	Adj., Prec. Micropower Shunt Voltage Reference ±.5%*	SC70-5	397.80/1,000		
LM4041CIM7-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%*	SC70-5	1.15	.85	.62
LM4041CIM7-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%*	SC70-5	397.80/1,000		
LM4041CIZ-1.2-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%*	TO-92	1.15	.85	.62
LM4041CIZ-ADJ-ND	Adj., Prec. Micropower Shunt Voltage Reference ±.5%	TO-92	1.15	.85	.62
LM4041DEM3-ADJCT-ND	Adj., Prec. Micropower Shunt Voltage Reference ±1.0%	SOT-23	1.05	.77	.56
LM4041DEM3-ADJTR-ND	Adj., Prec. Micropower Shunt Voltage Reference ±1.0%	SOT-23	362.70/1,000		
LM4041DEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±1.0%*	SOT-23	1.05	.77	.56
LM4041DEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±1.0%*	SOT-23	362.70/1,000		
LM4041DIM3-1.2NSCT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±1.0%*	SOT-23	.99	.73	.53
LM4041DIM3-1.2NSTR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±1.0%*	SOT-23	343.20/1,000		
LM4041DIM3-ADJNSCT-ND	Adj., Prec. Micropower Shunt Voltage Reference ±1.0%*	SOT-23	.99	.73	.53
LM4041DIM3-ADJNSTR-ND	Adj., Prec. Micropower Shunt Voltage Reference ±1.0%*	SOT-23	338.00/1,000		
LM4041DIZ-ADJ-ND	Adj., Prec. Micropower Shunt Voltage Reference ±1.0%*	TO-92	.99	.73	.53
LM4041DIZ-1.2-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±1.0%*	TO-92	.99	.73	.53
LM4041EEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±2%*	SOT-23	.97	.71	.52
LM4041EEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±2%*	SOT-23	335.40/1,000		
LM4041EIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±2%*	SOT-23	.97	.71	.51
LM4041EIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±2%*	SOT-23	302.40/1,000		
LM4041EIZ-1.2-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±2%*	TO-92	.97	.71	.51
LM4050AEM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference*	SOT-23	2.98	2.27	1.73
LM4050AEM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference*	SOT-23	1499.40/1,000		
LM4050AEM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AEM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	1499.40/1,000		
LM4050AEM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23	2.98	2.27	1.73
LM4050AEM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23	1499.40/1,000		
LM4050AEM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AEM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1499.40/1,000		
LM4050AEM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AEM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	1499.40/1,000		
LM4050AIM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference*	SOT-23	2.65	2.02	1.54
LM4050AIM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference*	SOT-23	1335.60/1,000		
LM4050AIM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference*	SOT-23	2.65	2.02	1.54
LM4050AIM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference*	SOT-23	1335.60/1,000		
LM4050AIM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23	2.65	2.02	1.54
LM4050AIM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23	1335.60/1,000		
LM4050AIM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference*	SOT-23	2.65	2.02	1.54
LM4050AIM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference*	SOT-23	1335.60/1,000		
LM4050AIM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference*	SOT-23	2.65	2.02	1.54
LM4050AIM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference*	SOT-23	1335.60/1,000		
LM4050BEM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4050BEM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4050BEM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4050BEM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4050BEM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4050BEM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4050BEM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4050BEM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4050BEM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4050BEM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4050BIM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference*	SOT-23	2.17	1.61	1.19
LM4050BIM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference*	SOT-23	896.00/1,000		
LM4050BIM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference*	SOT-23	2.17	1.61	1.19
LM4050BIM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference*	SOT-23	896.00/1,000		
LM4050BIM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23	2.17	1.61	1.19
LM4050BIM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23	896.00/1,000		
LM4050BIM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.17	1.61	1.19
LM4050BIM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	896.00/1,000		
LM4050BIM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	2.17	1.61	1.19
LM4050BIM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	896.00/1,000		
LM4050CEM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4050CEM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4050CEM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4050CEM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4050CEM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4050CEM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4050CEM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4050CEM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4050CEM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4050CEM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4050CIM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	1.95	1.45	1.08
LM4050CIM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	806.40/1,000		
LM4050CIM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference*	SOT-23	1.95	1.45	1.08
LM4050CIM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference*	SOT-23	806.40/1,000		
LM4050CIM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23	1.95	1.45	1.08
LM4050CIM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference*	SOT-23	806.40/1,000		
LM4050CIM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1.95	1.45	1.08
LM4050CIM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	806.40/1,000		
LM4050CIM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	1.95	1.45	1.08
LM4050CIM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	806.40/1,000		
LM4051AEM3-ADJCT-ND	Adj. Precision Micropower Shunt Voltage Reference	SOT-23	2.98	2.27	1.73
LM4051AEM3-ADJTR-ND	Adj. Precision Micropower Shunt Voltage Reference	SOT-23	1499.40/1,000		
LM4051AEM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.98	2.27	1.73
LM4051AEM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1499.40/1,000		
LM4051AIM3-ADJCT-ND	Adj., Precision Micropower Shunt Voltage Reference*	SOT-23	2.65	2.02	1.54
LM4051AIM3-ADJTR-ND	Adj., Precision Micropower Shunt Voltage Reference*	SOT-23	1335.60/1,000		
LM4051AIM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.65	2.02	1.54
LM4051AIM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1335.60/1,000		
LM4051BEM3-ADJCT-ND	Adj. Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4051BEM3-ADJTR-ND	Adj. Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4051BEM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference*	SOT-23	2.57	1.91	1.42
LM4051BEM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference*	SOT-23	1062.40/1,000		
LM4051BIM3-ADJCT-ND	Adj., Precision Micropower Shunt Voltage Reference*	SOT-23	2.17	1.61	1.19
LM4051BIM3-ADJTR-ND	Adj., Precision Micropower Shunt Voltage Reference*	SOT-23	896.00/1,000		
LM4051BIM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference*	SOT-23	2.17	1.61	1.19
LM4051BIM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference*	SOT-23	896.00/1,000		
LM4051CEM3-ADJCT-ND	Adj. Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4051CEM3-ADJTR-ND	Adj. Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4051CEM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4051CEM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4051CIM3-ADJCT-ND	Adj., Precision Micropower Shunt Voltage Reference*	SOT-23	1.95	1.45	1.08
LM4051CIM3-ADJTR-ND	Adj., Precision Micropower Shunt Voltage Reference*	SOT-23	806.40/1,000		
LM4051CIM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference*	SOT-23	1.95	1.45	1.08
LM4051CIM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference*	SOT-23	806.40/1,000		
LM4120AIM5-1.8CT-ND	1.8V, Precision Micropower LDO Reference*	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-1.8TR-ND	1.8V, Precision Micropower LDO Reference*	SOT-23-5	1216.00/1,000		
LM4120AIM5-2.0CT-ND	2V, Precision Micropower LDO Reference*	SOT-23-5	2.95	2.19	1.62

*** RoHS Compliant**

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM4120AIM5-2.0TR-ND	2V, Precision Micropower LDO Reference*	SOT-23-5	1216.00/1,000		
LM4120AIM5-2.5CT-ND	2.5V, Precision Micropower LDO Reference*	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-2.5TR-ND	2.5V, Precision Micropower LDO Reference*	SOT-23-5	1216.00/1,000		
LM4120AIM5-3.0CT-ND	3V, Precision Micropower LDO Reference*	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-3.0TR-ND	3V, Precision Micropower LDO Reference*	SOT-23-5	1216.00/1,000		
LM4120AIM5-3.3CT-ND	3.3V, Precision Micropower LDO Reference*	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-3.3TR-ND	3.3V, Precision Micropower LDO Reference*	SOT-23-5	1216.00/1,000		
LM4120AIM5-4.1CT-ND	4.1V, Precision Micropower LDO Reference*	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-4.1TR-ND	4.1V, Precision Micropower LDO Reference*	SOT-23-5	1216.00/1,000		
LM4120AIM5-5.0CT-ND	5V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-5.0TR-ND	5V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120IM5-1.8CT-ND	1.8V, Precision Micropower LDO Reference	SOT-23-5	2.50	1.86	1.38
LM4120IM5-1.8TR-ND	1.8V, Precision Micropower LDO Reference	SOT-23-5	1034.24/1,000		
LM4120IM5-2.0CT-ND	2V, Precision Micropower LDO Reference	SOT-23-5	2.50	1.86	1.38
LM4120IM5-2.0TR-ND	2V, Precision Micropower LDO Reference	SOT-23-5	1034.24/1,000		
LM4120IM5-2.5CT-ND	2.5V, Precision Micropower LDO Reference*	SOT-23-5	2.50	1.86	1.38
LM4120IM5-2.5TR-ND	2.5V, Precision Micropower LDO Reference*	SOT-23-5	1034.24/1,000		
LM4120IM5-3.0CT-ND	3V, Precision Micropower LDO Reference*	SOT-23-5	2.50	1.86	1.38
LM4120IM5-3.0TR-ND	3V, Precision Micropower LDO Reference*	SOT-23-5	1034.24/1,000		
LM4120IM5-3.3CT-ND	3.3V, Precision Micropower LDO Reference	SOT-23-5	2.50	1.86	1.38
LM4120IM5-3.3TR-ND	3.3V, Precision Micropower LDO Reference	SOT-23-5	1034.24/1,000		
LM4120IM5-4.1CT-ND	4.1V, Precision Micropower LDO Reference*	SOT-23-5	2.50	1.86	1.38
LM4120IM5-4.1TR-ND	4.1V, Precision Micropower LDO Reference*	SOT-23-5	1034.24/1,000		
LM4120IM5-5.0CT-ND	5V, Precision Micropower LDO Reference*	SOT-23-5	2.50	1.86	1.38
LM4120IM5-5.0TR-ND	5V, Precision Micropower LDO Reference*	SOT-23-5	1034.24/1,000		
LM4121AIM5-ADJCT-ND	Adj., Precision Micropower LDO Voltage Reference*	SOT-23-5	2.64	1.96	1.45
LM4121AIM5-ADJTR-ND	Adj., Precision Micropower LDO Voltage Reference*	SOT-23-5	1088.00/1,000		
LM4121AIM5-1.2CT-ND	1.2V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.64	1.96	1.45
LM4121AIM5-1.2TR-ND	1.2V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1088.00/1,000		
LM4121IM5-ADJCT-ND	Adj., Precision Micropower LDO Voltage Reference	SOT-23-5	2.24	1.67	1.23
LM4121IM5-ADJTR-ND	Adj., Precision Micropower LDO Voltage Reference	SOT-23-5	925.44/1,000		
LM4121IM5-1.2CT-ND	1.2V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.24	1.67	1.23
LM4121IM5-1.2TR-ND	1.2V, Precision Micropower LDO Voltage Reference	SOT-23-5	925.44/1,000		
LM4125AIM5-2.0CT-ND	2V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.95	2.19	1.62
LM4125AIM5-2.0TR-ND	2V, Precision Micropower LDO Voltage Reference	SOT-23-5	1216.00/1,000		
LM4125AIM5-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.95	2.19	1.62
LM4125AIM5-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	1216.00/1,000		
LM4125AIM5-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	2.95	2.19	1.62
LM4125AIM5-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1216.00/1,000		
LM4125IM5-2.0CT-ND	2V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.50	1.86	1.38
LM4125IM5-2.0TR-ND	2V, Precision Micropower LDO Voltage Reference	SOT-23-5	1034.24/1,000		
LM4125IM5-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.50	1.86	1.38
LM4125IM5-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	1034.24/1,000		
LM4125IM5-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.50	1.86	1.38
LM4125IM5-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	1034.24/1,000		
LM4128AMF-1.8CT-ND	1.8V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.09	2.30	1.70
LM4128AMF-1.8TR-ND	1.8V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1277.44/1,000		
LM4128AMF-2.0CT-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.09	2.30	1.70
LM4128AMF-2.0TR-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1277.44/1,000		
LM4128AMF-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.09	2.30	1.70
LM4128AMF-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1277.44/1,000		
LM4128AMF-3.0CT-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.09	2.30	1.70
LM4128AMF-3.0TR-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1277.44/1,000		
LM4128AMF-3.3CT-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.09	2.30	1.70
LM4128AMF-3.3TR-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1277.44/1,000		
LM4128AMF-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	3.09	2.30	1.70
LM4128AMF-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1277.44/1,000		
LM4128BMF-1.8CT-ND	1.8V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.88	1.40	1.04
LM4128BMF-1.8TR-ND	1.8V, Precision Micropower LDO Voltage Reference*	SOT-23-5	778.24/1,000		
LM4128BMF-2.0CT-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.88	1.40	1.04
LM4128BMF-2.0TR-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	778.24/1,000		
LM4128BMF-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.88	1.40	1.04
LM4128BMF-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	778.24/1,000		
LM4128BMF-3.0CT-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.88	1.40	1.04
LM4128BMF-3.0TR-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	778.24/1,000		
LM4128BMF-3.3CT-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.88	1.40	1.04
LM4128BMF-3.3TR-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	778.24/1,000		
LM4128BMF-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.88	1.40	1.04
LM4128BMF-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	778.24/1,000		
LM4128CMF-2.0CT-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.64	1.21	.88
LM4128CMF-2.0TR-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	568.10/1,000		
LM4128CMF-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.64	1.21	.88
LM4128CMF-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	568.10/1,000		
LM4128CMF-3.0CT-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.64	1.21	.88
LM4128CMF-3.0TR-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	568.10/1,000		
LM4128CMF-3.3CT-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.64	1.21	.88
LM4128CMF-3.3TR-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	568.10/1,000		
LM4128CMF-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.64	1.21	.88
LM4128CMF-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	569.40/1,000		
LM4128DMF-1.8CT-ND	1.8V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.46	1.08	.78
LM4128DMF-1.8TR-ND	1.8V, Precision Micropower LDO Voltage Reference*	SOT-23-5	507.00/1,000		
LM4128DMF-2.0CT-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.46	1.08	.78
LM4128DMF-2.0TR-ND	2.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	507.00/1,000		
LM4128DMF-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.46	1.08	.78
LM4128DMF-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference*	SOT-23-5	507.00/1,000		
LM4128DMF-3.0CT-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.46	1.08	.78
LM4128DMF-3.0TR-ND	3.0V, Precision Micropower LDO Voltage Reference*	SOT-23-5	507.00/1,000		
LM4128DMF-3.3CT-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.46	1.08	.78
LM4128DMF-3.3TR-ND	3.3V, Precision Micropower LDO Voltage Reference*	SOT-23-5	507.00/1,000		
LM4128DMF-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	1.46	1.08	.78
LM4128DMF-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference*	SOT-23-5	507.00/1,000		
LM4132AMF-1.8CT-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	5.63	4.45	3.57
LM4132AMF-1.8TR-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	3323.20/1,000		
LM4132AMF-3.0CT-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	5.63	4.45	3.57
LM4132AMF-3.0TR-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	3323.20/1,000		
LM4132AMF-3.3CT-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	5.63	4.45	3.57
LM4132AMF-3.3TR-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	3323.20/1,000		
LM4132BMF-1.8CT-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	3.43	2.61	1.99
LM4132BMF-1.8TR-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	1726.20/1,000		
LM4132BMF-3.0CT-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	3.43	2.61	1.99
LM4132BMF-3.0TR-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	1726.20/1,000		
LM4132BMF-3.3CT-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	3.43	2.61	1.99
LM4132BMF-3.3TR-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	1726.20/1,000		
LM4132CMF-1.8CT-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	3.08	2.34	1.79
LM4132CMF-1.8TR-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	1549.80/1,000		

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM4132CMF-3.0CT-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	3.08	2.34	1.79
LM4132CMF-3.0TR-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	1549.80/1,000		
LM4132CMF-3.3CT-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	3.08	2.34	1.79
LM4132CMF-3.3TR-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	1549.80/1,000		
LM4132DMF-1.8CT-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	3.03	2.26	1.67
LM4132DMF-1.8TR-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	1253.12/1,000		
LM4132DMF-3.0CT-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	3.03	2.26	1.67
LM4132DMF-3.0TR-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	1253.12/1,000		
LM4132DMF-3.3CT-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	3.03	2.26	1.67
LM4132DMF-3.3TR-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	1253.12/1,000		
LM4132EMF-1.8CT-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	2.83	2.10	1.56
LM4132EMF-1.8TR-ND	1.8V, Precision LDO Voltage Reference*	SOT-23-5	1167.36/1,000		
LM4132EMF-3.0CT-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	2.83	2.10	1.56
LM4132EMF-3.0TR-ND	3V, Precision LDO Voltage Reference*	SOT-23-5	1167.36/1,000		
LM4132EMF-3.3CT-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	2.83	2.10	1.56
LM4132EMF-3.3TR-ND	3.3V, Precision LDO Voltage Reference*	SOT-23-5	1167.36/1,000		
LM4140ACM-1.0-ND	1V, Precision Micropower LDO Voltage Reference*	8-SOIC	7.90	6.25	5.01
LM4140ACM-1.2-ND	1.2V, Precision Micropower LDO Voltage Reference*	8-SOIC	7.90	6.25	5.01
LM4140ACM-2.0-ND	2V, Precision Micropower LDO Voltage Reference*	8-SOIC	7.90	6.25	5.01
LM4140ACM-2.5-ND	2.5V, Precision Micropower LDO Voltage Reference*	8-SOIC	7.90	6.25	5.01
LM4140BCM-1.0-ND	1V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.69	4.50	3.61
LM4140BCM-1.2-ND	1.2V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.69	4.50	3.61
LM4140BCM-2.0-ND	2V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.69	4.50	3.61
LM4140BCM-2.5-ND	2.5V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.69	4.50	3.61
LM4140BCM-4.1-ND	4.1V, Precision Micropower LDO Voltage Reference*	8-SOIC	5.69	4.50	3.61
LM4140CCM-1.0-ND	1V, Precision Micropower LDO Voltage Reference*	8-SOIC	3.58	2.72	2.08
LM4140CCM-1.2-ND	1.2V, Precision Micropower LDO Voltage Reference*	8-SOIC	3.58	2.72	2.08
LM4140CCM-2.0-ND	2V, Precision Micropower LDO Voltage Reference*	8-SOIC	3.58	2.72	2.08
LM4140CCM-2.5-ND	2.5V, Precision Micropower LDO Voltage Reference*	8-SOIC	3.58	2.72	2.08
LM4140CCM-4.1-ND	4.1V, Precision Micropower LDO Voltage Reference*	8-SOIC	3.58	2.72	2.08
LM4250CM-ND	Programmable Op Amp*	8-SOIC	1.34	.99	.72
LM4250CMXTR-ND	Programmable Op Amp*	8-SOIC	1137.94/2,500		
LM4250CN-ND	Programmable Op Amp	8-Dip	1.40	1.03	.75
LM4431M3-2.5CT-ND	Precision Voltage Micropower Shunt Voltage Reference*	SOT-23	1.16	.86	.62
LM4431M3-2.5TR-ND	Precision Voltage Micropower Shunt Voltage Reference*	SOT-23	403.00/1,000		
LM4510SDCT-ND	Sync. Step-Up DC/DC Converter with True Shutdown Isolation*	10-LLP	4.28	3.25	2.48
LM4510SDTR-ND	Sync. Step-Up DC/DC Converter with True Shutdown Isolation*	10-LLP	2154.60/1,000		
LM4550BVH-ND	AC '97 Rev 2.1 Multi-Ch. Audio Codec w/Stereo Headphone Amp, Sample Rate Conversion/National 3D Sound*	48-LQFP	5.88	4.65	3.73
LM4562HA-ND	Dual High Performance, High Fidelity Audio Op Amp*	TO-99	15.96	13.68	12.13
LM4562NA-ND	Dual High Performance, High Fidelity Audio Op Amp*	8-Dip	4.53	3.44	2.63
LM4562MA-ND	Dual High Performance, High Fidelity Audio Op Amp*	8-SOIC	4.53	3.44	2.63
LM4570LQCT-ND	Single-Ended Input Motor Driver*	8-LLP	1.92	1.43	1.06
LM4570LQTR-ND	Single-Ended Input Motor Driver*	8-LLP	791.04/1,000		
LM4663MT-ND	2W Stereo Class D Audio Power Amp with Stereo Headphone Amp	24-TSSOP	3.23	2.46	1.88
LM4665ITLCT-ND	Filterless High Efficiency 1W Switching Audio Amp*	9-microSMD	3.01	2.24	1.65
LM4665ITLTR-ND	Filterless High Efficiency 1W Switching Audio Amp*	9-microSMD	327.38/250		
LM4665LDCT-ND	Filterless High Efficiency 1W Switching Audio Amp*	10-LLP	2.60	1.98	1.51
LM4665LDTR-ND	Filterless High Efficiency 1W Switching Audio Amp*	10-LLP	1310.40/1,000		
LM4665MMCT-ND	Filterless High Efficiency 1W Switching Audio Amp*	10-MSOP	2.63	2.00	1.53
LM4665MMTR-ND	Filterless High Efficiency 1W Switching Audio Amp*	10-MSOP	1323.00/1,000		
LM4666SDCT-ND	1.2W Switching Audio Amp	14-LLP	2.65	1.97	1.46
LM4666SDTR-ND	1.2W Switching Audio Amp	14-LLP	1094.40/1,000		
LM4667ITLCT-ND	1.3W Switching Audio Amp	9-microSMD	1.71	1.26	.92
LM4667ITLTR-ND	1.3W Switching Audio Amp	9-microSMD	171.00/250		
LM4667MMCT-ND	1.3W Switching Audio Amp*	10-MSOP	1.64	1.21	.88
LM4667MMTR-ND	1.3W Switching Audio Amp*	10-MSOP	568.10/1,000		
LM4668LDCT-ND	10W High Efficiency Mono BTL Audio Power Amp*	14-LLP	5.73	4.36	3.33
LM4668LDTR-ND	10W High Efficiency Mono BTL Audio Power Amp*	14-LLP	761.43/250		
LM4668MH-ND	10W High Efficiency Mono BTL Audio Power Amp*	20-TSSOP	5.73	4.36	3.33
LM4673SDCT-ND	2.65W Class D Audio Power Amp*	8-LLP	1.77	1.32	.97
LM4673SDTR-ND	2.65W Class D Audio Power Amp*	8-LLP	729.60/1,000		
LM4673TMCT-ND	2.65W Class D Audio Power Amp*	9-microSMD	1.77	1.32	.97
LM4673TMTR-ND	2.65W Class D Audio Power Amp*	9-microSMD	192.38/250		
LM4674ATLCT-ND	Filterless 2.5W Stereo Class D Audio Power Amp*	16-microSMD	2.36	1.75	1.30
LM4674ATLTR-ND	Filterless 2.5W Stereo Class D Audio Power Amp*	16-microSMD	256.50/250		
LM4674SQCT-ND	2.5W Stereo Class D Audio Power Amp*	16-LLP	2.95	2.19	1.62
LM4674SQTR-ND	2.5W Stereo Class D Audio Power Amp*	16-LLP	1216.00/1,000		
LM4674TLCT-ND	2.5W Stereo Class D Audio Power Amp*	16-microSMD	2.36	1.75	1.30
LM4674TLTR-ND	2.5W Stereo Class D Audio Power Amp*	16-microSMD	256.50/250		
LM4675SDCT-ND	2.65W Class D Audio Power Amp*	8-LLP	2.50	1.86	1.38
LM4675SDTR-ND	2.65W Class D Audio Power Amp*	8-LLP	1034.24/1,000		
LM4675TLCT-ND	2.65W Class D Audio Power Amp*	9-microSMD	2.21	1.64	1.22
LM4675TLTR-ND	2.65W Class D Audio Power Amp*	9-microSMD	240.64/250		
LM4680SDCT-ND	10W High Efficiency Mono BTL Audio Power Amp*	14-LLP	5.58	4.24	3.24
LM4680SDTR-ND	10W High Efficiency Mono BTL Audio Power Amp*	14-LLP	741.48/250		
LM4681SQCT-ND	10W Stereo Audio Power Amp*	48-LLP	6.89	5.45	4.37
LM4681SQTR-ND	10W Stereo Audio Power Amp*	48-LLP	1041.40/250		
LM4682SQCT-ND	10W Stereo Audio Power Amp*	48-LLP	6.68	5.28	4.23
LM4682SQTR-ND	10W Stereo Audio Power Amp*	48-LLP	1009.65/250		
LM4700TF-ND	*Overture*® 30W Audio Power Amp with Mute/Standby*	TO-220	5.75	4.37	3.34
LM4701T-ND	30W Audio Power Amp with Mute/Standby Modes*	TO-220-9	3.50	2.66	2.03
LM4702BTA-ND	Hi-Fi Audio Power Amplifier Driver*	TO-220-15	12.18	10.44	9.26
LM4702CTA-ND	*Overture*® Audio Power Amp*	TO-220-15	8.99	7.11	5.70
LM4730TA-ND	Stereo 14W Audio Power Amp*	TO-220-15	6.93	5.48	4.39
LM4731TA-ND	Stereo 25W Audio Power Amp with Mute/Standby*	TO-220-15	6.07	4.80	3.85
LM4752T-ND	11W Stereo Audio Amp*	TO-220-7	2.64	1.96	1.45
LM4752TS-ND	11W Stereo Audio Amp*	TO-263-7	2.91	2.17	1.60
LM4755T-ND	11W Stereo Audio Amp with Mute*	TO-220-9	2.64	1.96	1.45
LM4755TS-ND	11W Stereo Audio Amp with Mute*	TO-263-9	2.64	1.96	1.45
LM4765T-ND	30W Audio Power Amp with Mute/Standby Modes	TO-220-15	5.99	4.74	3.80
LM4766T-ND	Dual 40W Audio Power Amp with Mute	TO-220-15	5.95	4.53	3.46
LM4766TF-ND	Dual 30W Audio Power Amp with Mute*	TO-220-15	5.36	4.24	3.40
LM4780TA-ND	Stereo 60W Audio Power Amp with Mute*	TO-220	9.49	8.13	7.21
LM4781TA-ND	3-Channel 35W Audio Power Amp with Mute*	TO-220-27	9.28	7.34	5.88
LM4782TA-ND	3-Channel 25W Audio Power Amp with Mute*	TO-220	9.45	8.10	7.19
LM4802BLQCT-ND	Audio Power Amp with Boost Converter	28-LLP	4.28	3.25	2.48
LM4802BLQTR-ND	Audio Power Amp with Boost Converter	28-LLP	2154.60/1,000		

***** **RoHS Compliant**

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM4804LQCT-ND	Low Voltage High Power Audio Amp*	28-LLP	4.75	3.61	2.76
LM4804LQTR-ND	Low Voltage High Power Audio Amp*	28-LLP	2394.00/1,000		
LM4805LQCT-ND	3V, 1W, Boosted Boomer®*	28-LLP	4.50	3.42	2.61
LM4805LQTR-ND	3V, 1W, Boosted Boomer®*	28-LLP	2268.00/1,000		
LM4808LDCT-ND	Dual 105mW Headphone Amp	8-LLP	.95	.69	.50
LM4808LDTR-ND	Dual 105mW Headphone Amp	8-LLP	294.00/1,000		
LM4808M-ND	Dual 105mW Headphone Amp*	8-SOIC	.81	.59	.43
LM4808MMCT-ND	Dual 105mW Headphone Amp	8-MSOP	.81	.59	.43
LM4808MMTR-ND	Dual 105mW Headphone Amp	8-MSOP	252.00/1,000		
LM4809LDCT-ND	Dual 105mW Headphone Amp	8-LLP	1.24	.91	.66
LM4809LDTR-ND	Dual 105mW Headphone Amp	8-LLP	429.00/1,000		
LM4809LQCT-ND	Dual 105mW Headphone Amp*	8-LLP	1.07	.79	.57
LM4809LQTR-ND	Dual 105mW Headphone Amp*	8-LLP	370.50/1,000		
LM4809MA-ND	Dual 105mW Headphone Amp*	8-SOIC	.90	.65	.47
LM4809MMCT-ND	Dual 105mW Headphone Amp	8-MSOP	.90	.65	.47
LM4809MMTR-ND	Dual 105mW Headphone Amp	8-MSOP	280.00/1,000		
LM4810LDCT-ND	Dual 105mW Headphone Amp with Shutdown	8-LLP	1.09	.80	.58
LM4810LDTR-ND	Dual 105mW Headphone Amp with Shutdown	8-LLP	377.00/1,000		
LM4810MA-ND	Dual 105mW Headphone Amp with Shutdown*	8-SOIC	.90	.65	.47
LM4810MMCT-ND	Dual 105mW Headphone Amp with Shutdown	8-MSOP	.90	.65	.47
LM4810MMTR-ND	Dual 105mW Headphone Amp with Shutdown	8-MSOP	280.00/1,000		
LM4811LDCT-ND	Dual 105mW Headphone Amp with Digital Volume Control and Shutdown Mode	10-LLP	1.71	1.26	.92
LM4811LDTR-ND	Dual 105mW Headphone Amp with Digital Volume Control and Shutdown Mode	10-LLP	592.80/1,000		
LM4811MMCT-ND	Dual 105mW Headphone Amp with Digital Volume Control and Shutdown Mode*	10-MSOP	1.71	1.26	.92
LM4811MMTR-ND	Dual 105mW Headphone Amp with Digital Volume Control and Shutdown Mode*	10-MSOP	592.80/1,000		
LM4820ITP-6CT-ND	1W Audio Power Amp	8-microSMD	1.77	1.32	.97
LM4820ITP-6TR-ND	1W Audio Power Amp	8-microSMD	192.38/250		
LM4832M-ND	Digital Controlled Tone and Volume Circuit with Stereo Audio Power Amp*	28-SOIC	5.63	4.28	3.27
LM4832MT-ND	Digitally Controlled Tone and Volume Circuit with Stereo Audio Power Amp*	28-TSSOP	4.23	3.22	2.46
LM4832MTXCT-ND	Digitally Controlled Tone and Volume Circuit with Stereo Audio Power Amp	28-TSSOP	4.23	3.22	2.46
LM4832MTXTR-ND	Digitally Controlled Tone and Volume Circuit with Stereo Audio Power Amp	28-TSSOP	5281.25/2,500		
LM4832N-ND	Digital Controlled Tone and Volume Circuit with Stereo Audio Power Amp	28-Dip	5.33	4.22	3.38
LM4834MS-ND	1.75W Audio Power Amp with DC Volume Control and Microphone Preamp	28-SSOP	4.25	3.23	2.47
LM4835LQCT-ND	Stereo 2W Audio Power Amp with DC Volume Control and Selectable Gain	28-LLP	3.05	2.32	1.77
LM4835LQTR-ND	Stereo 2W Audio Power Amp with DC Volume Control and Selectable Gain	28-LLP	1537.20/1,000		
LM4835MT-ND	Stereo 2W Audio Power Amp with DC Volume Control and Selectable Gain*	28-TSSOP	3.83	2.91	2.22
LM4835MTE-ND	Stereo 2W Audio Power Amp with DC Volume Control and Selectable Gain	28-TSSOP	3.63	2.76	2.11
LM4836LQCT-ND	Stereo 2W Audio Power Amp with Bass Boost	28-LLP	3.05	2.32	1.77
LM4836LQTR-ND	Stereo 2W Audio Power Amp with Bass Boost	28-LLP	1537.20/1,000		
LM4836MT-ND	Stereo 2W Audio Power Amp with Bass Boost	28-TSSOP	3.83	2.91	2.22
LM4836MTE-ND	Stereo 2W Audio Power Amp with Bass Boost	28-TSSOP	3.63	2.76	2.11
LM4838ITLCT-ND	Stereo 2W Audio Power Amp with Selectable Gain	36-microSMD	4.28	3.25	2.48
LM4838ITLTR-ND	Stereo 2W Audio Power Amp with Selectable Gain	36-microSMD	568.58/250		
LM4838LQCT-ND	Stereo 2W Audio Power Amp with Selectable Gain	28-LLP	3.43	2.61	1.99
LM4838LQTR-ND	Stereo 2W Audio Power Amp with Selectable Gain	28-LLP	1726.20/1,000		
LM4838MT-ND	Stereo 2W Audio Power Amp with Selectable Gain	28-TSSOP	3.33	2.53	1.93
LM4838MTE-ND	Stereo 2W Audio Power Amp with Selectable Gain*	28-TSSOP	2.63	2.00	1.53
LM4839LQCT-ND	Stereo 2W Audio Power Amp with Bass Boost	28-LLP	3.43	2.61	1.99
LM4839LQTR-ND	Stereo 2W Audio Power Amp with Bass Boost	28-LLP	1726.20/1,000		
LM4839MT-ND	Stereo 2W Audio Power Amp with Bass Boost*	28-TSSOP	4.28	3.25	2.48
LM4839MTE-ND	Stereo 2W Audio Power Amp with Bass Boost*	28-TSSOP	4.05	3.08	2.35
LM4840LQCT-ND	Stereo 2W Audio Power Amp with Digital Volume Control*	28-LLP	4.05	3.08	2.35
LM4840LQTR-ND	Stereo 2W Audio Power Amp with Digital Volume Control*	28-LLP	2041.20/1,000		
LM4840MH-ND	Stereo 2W Audio Power Amp*	28-TSSOP	4.05	3.08	2.35
LM4840MT-ND	Stereo 2W Audio Power Amp*	28-TSSOP	4.05	3.08	2.35
LM4841LQCT-ND	Stereo 2W Amp with DC Volume Control*	28-LLP	3.10	2.36	1.80
LM4841LQTR-ND	Stereo 2W Amp with DC Volume Control*	28-LLP	1562.40/1,000		
LM4841MH-ND	Stereo 2W Amp with DC Volume Control*	28-TSSOP	4.05	3.08	2.35
LM4841MT-ND	Stereo 2W Amp with DC Volume Control*	28-TSSOP	4.53	3.44	2.63
LM4842LQCT-ND	Stereo 2W Amp with DC Volume Control*	28-LLP	3.10	2.36	1.80
LM4842LQTR-ND	Stereo 2W Amp with DC Volume Control*	28-LLP	1562.40/1,000		
LM4842MH-ND	Stereo 2W Amp with DC Volume Control*	28-TSSOP	4.05	3.08	2.35
LM4842MT-ND	Stereo 2W Amp with DC Volume Control*	28-TSSOP	4.53	3.44	2.63
LM4845ITLCT-ND	Output Capacitorless Audio Subsystem	25-USMD	5.95	4.53	3.46
LM4845ITLTR-ND	Output Capacitorless Audio Subsystem	25-USMD	791.35/250		
LM4846TLCT-ND	Output Capacitorless Audio Subsystem*	25-microSMD	5.95	4.53	3.46
LM4846TLTR-ND	Output Capacitorless Audio Subsystem*	25-microSMD	791.35/250		
LM4851ITLCT-ND	Integrated Audio Amp System	18-microSMD	3.10	2.36	1.80
LM4851ITLTR-ND	Integrated Audio Amp System	18-microSMD	412.30/250		
LM4851LQCT-ND	Integrated Audio Amp System*	24-LLP	3.10	2.36	1.80
LM4851LQTR-ND	Integrated Audio Amp System*	24-LLP	1562.40/1,000		
LM4852ITL-ND	1.1W Integrated Audio Amp	18-microSMD	3.10	2.36	1.80
LM4852LQCT-ND	1.1W Integrated Audio Amp	24-LLP	3.10	2.36	1.80
LM4852LQTR-ND	1.1W Integrated Audio Amp	24-LLP	1562.40/1,000		
LM4853LDCT-ND	Mono 1.5W/Stereo 300mW Power Amp*	14-LLP	2.79	2.07	1.53
LM4853LDTR-ND	Mono 1.5W/Stereo 300mW Power Amp*	14-LLP	1152.00/1,000		
LM4853MMCT-ND	Mono 1.5W/Stereo 300mW Power Amp	10-MSOP	2.50	1.86	1.38
LM4853MMTR-ND	Mono 1.5W/Stereo 300mW Power Amp	10-MSOP	1034.24/1,000		
LM4854IBLCT-ND	1.9W Monaural, 85mW Stereo Headphone Audio Amp*	12-microSMD	2.63	2.00	1.53
LM4854IBLTR-ND	1.9W Monaural, 85mW Stereo Headphone Audio Amp*	12-microSMD	349.13/250		
LM4854LDCT-ND	1.9W Monaural, 85mW Stereo Headphone Audio Amp*	14-LLP	2.65	2.02	1.54
LM4854LDTR-ND	1.9W Monaural, 85mW Stereo Headphone Audio Amp*	14-LLP	1335.60/1,000		
LM4854MT-ND	1.9W Monaural, 85mW Stereo Headphone Audio Amp	14-TSSOP	2.53	1.92	1.47
LM4855IBLCT-ND	Integrated Audio Amp System*	18-microSMD	3.58	2.72	2.08
LM4855IBLTR-ND	Integrated Audio Amp System*	18-microSMD	475.48/250		
LM4855ITLCT-ND	Integrated Audio Amp System	18-microSMD	3.10	2.36	1.80
LM4855ITLTR-ND	Integrated Audio Amp System	18-microSMD	412.30/250		
LM4855LQCT-ND	Integrated Audio Amp System	24-LLP	3.58	2.72	2.08
LM4855LQTR-ND	Integrated Audio Amp System	24-LLP	1801.80/1,000		
LM4856ITL-ND	1.1W Integrated Audio Amp	18-microSMD	3.10	2.36	1.80
LM4856LQCT-ND	1.1W Integrated Audio Amp	18-LLP	3.10	2.36	1.80
LM4856LQTR-ND	1.1W Integrated Audio Amp	18-LLP	1562.40/1,000		
LM4857ITL-ND	1.2W Stereo Audio Subsystem	30-microSMD	5.23	3.98	3.04
LM4857SPCT-ND	1.2W Stereo Audio Subsystem	28-LLP	5.10	3.88	2.96
LM4857SPTR-ND	1.2W Stereo Audio Subsystem	28-LLP	2570.40/1,000		
LM4860M-ND	Series 1W Audio Power Amp with Shutdown Mode*	16-SOIC	1.55	1.15	.85
LM4861M-ND	1.1W Audio Power Amp with Shutdown Mode*	8-SOIC	1.55	1.15	.85
LM4861MXCT-ND	1.1W Audio Power Amp with Shutdown Mode	8-SOIC	1.88	1.38	1.00
LM4861MXTR-ND	1.1W Audio Power Amp with Shutdown Mode	8-SOIC	1562.50/2,500		
LM4862M-ND	675mW Audio Power Amp with Shutdown Mode*	8-SOIC	1.80	1.32	.96
LM4863LQCT-ND	Dual 2.2W Audio Amp Plus Headphone Function	24-LLP	3.35	2.55	1.95
LM4863LQTR-ND	Dual 2.2W Audio Amp Plus Headphone Function	24-LLP	1688.40/1,000		
LM4863M-ND	Dual 2.2W Audio Amp Plus Headphone Function*	16-SOIC	3.20	2.44	1.86
LM4863MT-ND	Dual 2.2W Audio Amp Plus Headphone Function	20-TSSOP	2.80	2.08	1.54
LM4863MTE-ND	Dual 2.2W Audio Amp Plus Headphone Function*	20-TSSOP	2.95	2.19	1.62
LM4864LDCT-ND	725mW Audio Power Amp with Shutdown Mode	10-LLP	1.58	1.16	.84
LM4864LDTR-ND	725mW Audio Power Amp with Shutdown Mode	10-LLP	546.00/1,000		
LM4864M-ND	300mW Audio Power Amp with Shutdown Mode*	8-SOIC	1.43	1.05	.76
LM4864MMCT-ND	300mW Audio Power Amp with Shutdown Mode*	8-MSOP	1.50	1.10	.80
LM4864MMTR-ND	300mW Audio Power Amp with Shutdown Mode*	8-MSOP	518.70/1,000		
LM4864MMXTR-ND	300mW Audio Power Amp with Shutdown Mode	8-MSOP	1780.54/3,500		
LM4865M-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch*	8-SOIC	1.86	1.38	1.02
LM4865MMCT-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch	8-MSOP	1.86	1.38	1.02
LM4865MMTR-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch	8-MSOP	768.00/1,000		
LM4866LQCT-ND	2.2W Stereo Audio Amp*	24-LLP	2.79	2.07	1.53
LM4866LQTR-ND	2.2W Stereo Audio Amp*	24-LLP	1152.00/1,000		
LM4866MT-ND	2.2W Stereo Audio Amp*	20-TSSOP	2.79	2.07	1.53
LM4866MTE-ND	2.2W Stereo Audio Amp*	20-TSSOP	2.79	2.07	1.53
LM4866MTEXCT-ND	2.2W Stereo Audio Amp*	20-TSSOP	2.79	2.07	1.53
LM4866MTEXTR-ND	2.2W Stereo Audio Amp*	20-TSSOP	2812.50/2,500		
LM4867MT-ND	Output-Transient-Free Dual 2.1W Audio Amp	20-TSSOP	3.28	2.49	1.90
LM4867MTE-ND	Output-Transient-Free Dual 2.1W Audio Amp	20-TSSOP	3.40	2.59	1.98
LM4868MT-ND	Boomer® Output-Transient-Free Dual 2.1W Audio Amp*	20-TSSOP	3.43	2.61	1.99
LM4868MTE-ND	Boomer® Output-Transient-Free Dual 2.1W Audio Amp*	20-TSSOP	3.85	2.93	2.24
LM4869MH-ND	1.9W Diff. Input BTL Output Stereo Audio Amp*	20-TSSOP	2.85	2.17	1.66
LM4871LDCT-ND	3W Audio Power Amp with Shutdown Mode*	8-LLP	1.84	1.35	.98
LM4871LDTR-ND	3W Audio Power Amp with Shutdown Mode*	8-LLP	637.00/1,000		
LM4871M-ND	3W Audio Power Amp with Shutdown Mode*	8-SOIC	1.39	1.02	.74
LM4871MMCT-ND	3W Audio Power Amp with Shutdown Mode*	8-MSOP	1.39	1.02	.74
LM4871MMTR-ND	3W Audio Power Amp with Shutdown Mode*	8-MSOP	481.00/1,000		
LM4872ITPCT-ND	1W Audio Power Amp	8-microSMD	1.71	1.27	.94
LM4872ITPTR-ND	1W Audio Power Amp	8-microSMD	185.63/250		
LM4873MT-ND	Dual 2.1W Audio Amp + Stereo Headphone Function*	20-TSSOP	2.55	1.94	1.48
LM4873MTE-ND	Dual 2.1W Audio Amp + Stereo Headphone Function	20-TSSOP	2.98	2.27	1.73
LM4874MH-ND	2.1W Differential Input, BTL Output Stereo Audio Amp	20-TSSOP	2.36	1.75	1.30
LM4876M-ND	1.1W Audio Power Amp with Logic Low Shutdown*	8-SOIC	1.39	1.02	.74
LM4876MMCT-ND	1.1W Audio Power Amp with Logic Low Shutdown	10-MSOP	1.61	1.19	.86
LM4876MMTR-ND	1.1W Audio Power Amp with Logic Low Shutdown	10-MSOP	559.00/1,000		
LM4877ITPCT-ND	1W Audio Power Amp with Logic Low Shutdown	8-microSMD	1.58	1.18	.87
LM4877ITPTR-ND	1W Audio Power Amp with Logic Low Shutdown	8-microSMD	172.13/250		
LM4879IBPCT-ND	1.1W Audio Power Amp with Shutdown Mode	8-microSMD	1.92	1.43	1.06
LM4879IBPTR-ND	1.1W Audio Power Amp with Shutdown Mode	8-microSMD	208.58/250		
LM4879ITLCT-ND	1.1W Audio Power Amp with Shutdown Mode*	9-microSMD	1.58	1.18	.87
LM4879ITLTR-ND	1.1W Audio Power Amp with Shutdown Mode*	9-microSMD	172.13/250		
LM4879ITPCT-ND	1.1W Audio Power Amp with Shutdown Mode	8-microSMD	1.58	1.18	.87
LM4879ITPTR-ND	1.1W Audio Power Amp with Shutdown Mode	8-microSMD	172.13/250		
LM4879MMCT-ND	1.1W Audio Power Amp with Shutdown Mode	10-MSOP	1.78	1.31	.95
LM4879MMTR-ND	1.1W Audio Power Amp with Shutdown Mode	10-MSOP	617.50/1,000		
LM4879SDCT-ND	1.1W Audio Power Amp with Shutdown Mode	8-LLP	1.62	1.21	.89
LM4879SDTR-ND	1.1W Audio Power Amp with Shutdown Mode	8-LLP	669.44/1,000		
LM4880M-ND	Dual 250mW Audio Power Amp with Shutdown Mode*	8-SOIC	1.73	1.27	.92
LM4881M-ND	Dual 200mW Headphone Amp with Shutdown Mode*	8-SOIC	1.58	1.18	.87
LM4881MMTR-ND	Dual 200mW Headphone Amp with Shutdown Mode*	8-MSOP	652.80/1,000		
LM4881N-ND	Dual 200mW Headphone Amp with Shutdown Mode*	8-Dip	1.77	1.32	.97
LM4882M-ND	Dual 250mW Audio Power Amp with Shutdown Mode*	8-SOIC	1.28	.94	.68
LM4882MMCT-ND	Dual 250mW Audio Power Amp with Shutdown Mode	8-MSOP	1.28	.94	.68
LM4882MMTR-ND	Dual 250mW Audio Power Amp with Shutdown Mode	8-MSOP	442.00/1,000		
LM4888SQCT-ND	Dual 2.1W Audio Amp, Stereo Headphone/3D Enhancement*	24-LLP	2.50	1.90	1.45
LM4888SQTR-ND	Dual 2.1W Audio Amp, Stereo Headphone/3D Enhancement*	24-LLP	1260.00/1,000		
LM4889ITLCT-ND	1W Audio Power Amp	8-microSMD	1.43	1.05	.76
LM4889ITLTR-ND	1W Audio Power Amp	8-microSMD	142.50/250		
LM4889LDCT-ND	1W Audio Power Amp	10-LLP	1.65	1.21	.88
LM4889LDTR-ND	1W Audio Power Amp	10-LLP	572.00/1,000		
LM4889MA-ND	1W Audio Power Amp*	8-SOIC	1.43	1.05	.76
LM4889MMCT-ND	1W Audio Power Amp*	8-MSOP	1.24	.91	.66
LM4889MMTR-ND	1W Audio Power Amp*	8-MSOP	429.00/1,000		
LM4890IBPCT-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD	1.76	1.30	.94
LM4890IBPTR-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD	176.25/250		
LM4890ITLCT-ND	1W Audio Power Amp with Shutdown Mode	9-microSMD	1.61	1.19	.86
LM4890ITLTR-ND	1W Audio Power Amp with Shutdown Mode	9-microSMD	161.25/250		
LM4890ITPCT-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD	1.76	1.30	.94
LM4890ITPTR-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD	176.25/250		
LM4890LDCT-ND	1W Audio Power Amp with Shutdown Mode	10-LLP	1.76	1.30	.94
LM4890LDTR-ND	1W Audio Power Amp with Shutdown Mode	10-LLP	611.00/1,000		
LM4890M-ND	1W Audio Power Amp with Shutdown Mode*	8-SOIC	1.76	1.30	.94
LM4890MMCT-ND	1W Audio Power Amp with Shutdown Mode	8-MSOP	1.76	1.30	.94
LM4890MMTR-ND	1W Audio Power Amp with Shutdown Mode	8-MSOP	611.00/1,000		
LM4890MXTR-ND	1W Audio Power Amp with Shutdown Mode*	8-SOIC	1498.13/2,500		
LM4891ITPCT-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD	2.06	1.53	1.14
LM4891ITPTR-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD	224.44/250		
LM4891M-ND	1W Audio Power Amp with Shutdown Mode*	8-SOIC	1.77	1.32	.97
LM4892ITPCT-ND	1W Audio Power Amp with Headphone Sense*	8-microSMD	2.06	1.53	1.14
LM4892ITPTR-ND	1W Audio Power Amp with Headphone Sense*	8-microSMD	224.44/250		
LM4892M-ND	1W Audio Power Amp with Headphone Sense	8-SOIC	1.77	1.32	.97
LM4892MMCT-ND	1W Audio Power Amp with Headphone Sense	8-MSOP	1.77	1.32	.97
LM4892MMTR-ND	1W Audio Power Amp with Headphone Sense	8-MSOP	729.60/1,000		
LM4893ITLCT-ND	1.1W Audio Power Amp*	9-microSMD	1.80	1.32	.96
LM4893ITLTR-ND	1.1W Audio Power Amp*	9-microSMD	180.00/250		
LM4893MA-ND	1.1W Audio Power Amp*	8-SOIC	1.80	1.32	.96

***** **RoHS Compliant**

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM4893MMCT-ND	1.1W Audio Power Amp*	10-MSOP	1.80	1.32	.96
LM4893MMTR-ND	1.1W Audio Power Amp*	10-MSOP	624.00/1,000		
LM4894ITPCT-ND	1W Fully Diff. Audio Power Amp with Shutdown	9-microSMD	2.11	1.57	1.16
LM4894ITPTR-ND	1W Fully Diff. Audio Power Amp with Shutdown	9-microSMD	229.50/250		
LM4894LDCT-ND	1W Fully Diff. Audio Power Amp with Shutdown	10-LLP	2.11	1.57	1.16
LM4894LDTR-ND	1W Fully Diff. Audio Power Amp with Shutdown	10-LLP	870.40/1,000		
LM4894MMCT-ND	1W Fully Diff. Audio Power Amp with Shutdown	10-MSOP	2.11	1.57	1.16
LM4894MMTR-ND	1W Fully Diff. Audio Power Amp with Shutdown	10-MSOP	870.40/1,000		
LM4895IBP-ND	1W Fully Diff. Audio Power Amp with Fixed 6dB Gain	9-microSMD	2.45	1.82	1.35
LM4895ITPCT-ND	1W Fully Diff. Audio Power Amp with Fixed 6dB Gain	9-microSMD	2.45	1.82	1.35
LM4895ITPTR-ND	1W Fully Diff. Audio Power Amp with Fixed 6dB Gain	9-microSMD	266.29/250		
LM4895MMCT-ND	1W Fully Diff. Audio Power Amp with Fixed 6dB Gain	10-MSOP	2.45	1.82	1.35
LM4895MMTR-ND	1W Fully Diff. Audio Power Amp with Fixed 6dB Gain	10-MSOP	1009.92/1,000		
LM4897MMCT-ND	1.1W Audio Power Amp	10-MSOP	1.80	1.32	.96
LM4897MMTR-ND	1.1W Audio Power Amp	10-MSOP	624.00/1,000		
LM4898ITL-ND	1W Fully Differential Audio Power Amp	9-microSMD	1.61	1.18	.86
LM4898LDCT-ND	1W Fully Differential Audio Power Amp	10-LLP	1.61	1.18	.86
LM4898LDTR-ND	1W Fully Differential Audio Power Amp	10-LLP	556.40/1,000		
LM4898MMCT-ND	1W Fully Differential Audio Power Amp	10-MSOP	1.61	1.18	.86
LM4898MMTR-ND	1W Fully Differential Audio Power Amp	10-MSOP	556.40/1,000		
LM4899ITL-ND	1W Fully Differential Audio Power Amp	9-microSMD	1.78	1.31	.95
LM4899MMCT-ND	1W Fully Differential Audio Power Amp	10-MSOP	1.78	1.31	.95
LM4899MMTR-ND	1W Fully Differential Audio Power Amp	10-MSOP	617.50/1,000		
LM4900LDCT-ND	3.3V Audio Amp with Shutdown*	8-LLP	1.43	1.05	.76
LM4900LDTR-ND	3.3V Audio Amp with Shutdown*	8-LLP	494.00/1,000		
LM4900M-ND	3.3V Audio Amp with Shutdown	8-SOIC	1.43	1.05	.76
LM4900MMCT-ND	265mW at 3.3V Supply Audio Power Amp w/Shutdown*	8-MSOP	1.43	1.05	.76
LM4900MMTR-ND	265mW at 3.3V Supply Audio Power Amp w/Shutdown*	8-MSOP	494.00/1,000		
LM4901LDCT-ND	1.6W Audio Power Amp with Selectable SD Logic Level	10-LLP	1.77	1.32	.97
LM4901LDTR-ND	1.6W Audio Power Amp with Selectable SD Logic Level	10-LLP	729.60/1,000		
LM4901MMCT-ND	1.6W Audio Power Amp with Selectable SD Logic Level	10-MSOP	1.77	1.32	.97
LM4901MMTR-ND	1.6W Audio Power Amp with Selectable SD Logic Level	10-MSOP	729.60/1,000		
LM4902LDCT-ND	3.3V Supply Audio Power Amp with Shutdown	8-LLP	1.43	1.05	.76
LM4902LDTR-ND	3.3V Supply Audio Power Amp with Shutdown	8-LLP	494.00/1,000		
LM4902MMCT-ND	3.3V Supply Audio Power Amp with Shutdown	8-MSOP	1.14	.84	.61
LM4902MMTR-ND	3.3V Supply Audio Power Amp with Shutdown	8-MSOP	395.20/1,000		
LM4903MMCT-ND	1W Audio Power Amp*	8-MSOP	1.77	1.32	.97
LM4903MMTR-ND	1W Audio Power Amp*	8-MSOP	729.60/1,000		
LM4904ITLCT-ND	1W Audio Power Amp*	8-microSMD	1.77	1.32	.97
LM4904ITLTR-ND	1W Audio Power Amp*	8-microSMD	192.38/250		
LM4905LDCT-ND	1W Audio Power Amp	8-LLP	1.62	1.21	.89
LM4905LDTR-ND	1W Audio Power Amp	8-LLP	669.44/1,000		
LM4905LQCT-ND	1W Audio Power Amp	8-LLP	1.62	1.21	.89
LM4905LQTR-ND	1W Audio Power Amp	8-LLP	669.44/1,000		
LM4905MMCT-ND	1W Audio Power Amp	8-MSOP	1.62	1.21	.89
LM4905MMTR-ND	1W Audio Power Amp	8-MSOP	669.44/1,000		
LM4906LDCT-ND	1W Audio Amp with Selectable Gain	10-LLP	1.80	1.32	.96
LM4906LDTR-ND	1W Audio Amp with Selectable Gain	10-LLP	624.00/1,000		
LM4906MMCT-ND	1W Audio Amp with Selectable Gain*	8-MSOP	1.80	1.32	.96
LM4906MMTR-ND	1W Audio Amp with Selectable Gain*	8-MSOP	624.00/1,000		
LM4907LQCT-ND	1W Audio Amp Power Amp*	8-LLP	1.78	1.31	.95
LM4907LQTR-ND	1W Audio Amp Power Amp*	8-LLP	617.50/1,000		
LM4910LQCT-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-LLP	1.43	1.05	.76
LM4910LQTR-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-LLP	494.00/1,000		
LM4910MA-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-SOIC	1.43	1.05	.76
LM4910MMCT-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-MSOP	1.43	1.05	.76
LM4910MMTR-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-MSOP	494.00/1,000		
LM4911MMCT-ND	Stereo 40mW Low Noise Headphone Amp with Selectable Capacitive Coupled Output	10-MSOP	1.78	1.31	.95
LM4911MMTR-ND	Stereo 40mW Low Noise Headphone Amp with Selectable Capacitive Coupled Output	10-MSOP	617.50/1,000		
LM4911LDCT-ND	Stereo 40mW Low Noise Headphone Amplifier with Selectable Capacitive Coupled or OCL Output*	10-LLP	1.78	1.31	.95
LM4911LDTR-ND	Stereo 40mW Low Noise Headphone Amplifier with Selectable Capacitive Coupled or OCL Output*	10-LLP	617.50/1,000		
LM4912MMCT-ND	Stereo 40mW Low Noise Headphone Amp	10-MSOP	1.77	1.32	.97
LM4912MMTR-ND	Stereo 40mW Low Noise Headphone Amp	10-MSOP	729.60/1,000		
LM4913MHCT-ND	2W Monaural, 90mW Stereo Headphone Audio Amp*	10-TSSOP	2.36	1.75	1.30
LM4913MHTR-ND	2W Monaural, 90mW Stereo Headphone Audio Amp*	10-TSSOP	972.80/1,000		
LM4916LDCT-ND	1.5V, Mono 85mW BTL Output, 14mW Stereo Headphone Audio Amp*	10-LLP	1.80	1.32	.96
LM4916LDTR-ND	1.5V, Mono 85mW BTL Output, 14mW Stereo Headphone Audio Amp*	10-LLP	624.00/1,000		
LM4916MMCT-ND	1.5V, Mono 85mW BTL Output, 14mW Stereo Headphone Audio Amp*	10-MSOP	1.80	1.32	.96
LM4916MMTR-ND	1.5V, Mono 85mW BTL Output, 14mW Stereo Headphone Audio Amp*	10-MSOP	624.00/1,000		
LM4920TLCT-ND	Ground Referenced, Ultra Low Noise, Fixed Gain, 80mW Stereo Headphone Amp*	14-microSMD	2.59	1.93	1.43
LM4920TLTR-ND	Ground Referenced, Ultra Low Noise, Fixed Gain, 80mW Stereo Headphone Amp*	14-microSMD	282.15/250		
LM4921ITLCT-ND	Low Voltage I^{2}S 16-Bit Stereo DAC*	20-microSMD	2.80	2.08	1.54
LM4921ITLTR-ND	Low Voltage I^{2}S 16-Bit Stereo DAC*	20-microSMD	304.76/250		
LM4923LQCT-ND	1.1W Fully Differential Audio Power Amp	8-LLP	1.14	.84	.61
LM4923LQTR-ND	1.1W Fully Differential Audio Power Amp	8-LLP	395.20/1,000		
LM4924MMCT-ND	Output Capacitor-Less Stereo Headphone Amp	10-MSOP	2.89	2.15	1.59
LM4924MMTR-ND	Output Capacitor-Less Stereo Headphone Amp	10-MSOP	1191.68/1,000		
LM4924SDCT-ND	Output Capacitor-Less Stereo Headphone Amp	10-LLP	2.89	2.15	1.59
LM4924SDTR-ND	Output Capacitor-Less Stereo Headphone Amp	10-LLP	1191.68/1,000		
LM4925MMCT-ND	2 Cell, Single Ended Output, 40mW Stereo Headphone Audio Amp	10-MSOP	2.89	2.15	1.59
LM4925MMTR-ND	2 Cell, Single Ended Output, 40mW Stereo Headphone Audio Amp	10-MSOP	1191.68/1,000		
LM4927SDTR-ND	Boomer® 2.5W Fully Differential Audio Power Amp	8-LLP	802.56/1,000		
LM4928SDCT-ND	Boomer® 1.2W Stereo Fully Differential Audio Amp	14-LLP	2.73	2.08	1.59
LM4928SDTR-ND	Boomer® 1.2W Stereo Fully Differential Audio Amp	14-LLP	1373.40/1,000		
LM4929MMCT-ND	Stereo 40mW Low Noise Headphone Amp	10-MSOP	2.06	1.53	1.14
LM4929MMTR-ND	Stereo 40mW Low Noise Headphone Amp	10-MSOP	851.20/1,000		
LM4930ITLCT-ND	Audio Subsystem with Stereo Headphone and Mono Speaker Amp	36-microSMD	7.88	6.23	4.99
LM4930ITLTR-ND	Audio Subsystem with Stereo Headphone and Mono Speaker Amp	36-microSMD	1190.63/250		
LM4930LQCT-ND	Audio Subsystem, Stereo Headphone/Mono Speaker Amp	44-LLP	7.88	6.23	4.99
LM4930LQTR-ND	Audio Subsystem, Stereo Headphone/Mono Speaker Amp	44-LLP	1190.63/250		
LM4931ITLCT-ND	Audio Subsystem, Mono High Efficiency Loudspeaker Stereo Headphone Amplifier*	42-microSMD	7.90	6.25	5.01
LM4931ITLTR-ND	Audio Subsystem, Mono High Efficiency Loudspeaker Stereo Headphone Amplifier*	42-microSMD	1193.80/250		
LM4934RLCT-ND	Audio Subsystem, Stereo Headphone and Mono Speaker Amp*	42-microSMD	7.58	6.00	4.81
LM4934RLTR-ND	Audio Subsystem, Stereo Headphone and Mono Speaker Amp*	42-microSMD	1146.18/250		
LM4935RLCT-ND	Audio Subsystem, Dual Mode Stereo Headphone Mono Speaker Amplifier*	49-microSMD	7.88	6.23	4.99
LM4935RLTR-ND	Audio Subsystem, Dual Mode Stereo Headphone Mono Speaker Amplifier*	49-microSMD	1190.63/250		
LM4936MH-ND	Boomer® Stereo 2W Audio Power Amp with Volume Control and Selectable Control Interface*	28-TSSOP	4.40	3.35	2.56
LM4937TLCT-ND	Audio Subsystem, OCL Stereo Headphone Output RF Suppression*	36-microSMD	5.88	4.65	3.73
LM4937TLTR-ND	Audio Subsystem, OCL Stereo Headphone Output RF Suppression*	36-microSMD	889.00/250		
LM4938MH-ND	Stereo 2W Audio Power Amp	28-TSSOP	2.50	1.86	1.38
LM4940TS-ND	Stereo 6W Audio Power Amp*	TO-263-9	2.50	1.90	1.45
LM4941SDCT-ND	1.25W Fully Differential Audio Power Amp with RF Suppression/Shutdown*	8-LLP	1.94	1.45	1.07
LM4941SDTR-ND	1.25W Fully Differential Audio Power Amp with RF Suppression/Shutdown*	8-LLP	802.56/1,000		
LM4941TMCT-ND	1.25W Fully Differential Audio Power Amplifier, with RF Suppression/Shutdown*	9-microSMD	1.83	1.36	1.01
LM4941TMTR-ND	1.25W Fully Differential Audio Power Amplifier, with RF Suppression/Shutdown*	9-microSMD	198.79/250		
LM4946SQCT-ND	Output Capacitor Less Audio Subsystem*	24-LLP	5.88	4.65	3.73
LM4946SQTR-ND	Output Capacitor Less Audio Subsystem*	24-LLP	3472.00/1,000		
LM4946TMCT-ND	Output Capacitor Less Audio Subsystem*	25-microSMD	5.88	4.65	3.73
LM4946TMTR-ND	Output Capacitor Less Audio Subsystem*	25-microSMD	889.00/250		
LM4947TLCT-ND	Mono Class D/Stereo Audio Subsystem OCL Headphone Amp/National 3D*	25-microSMD	5.35	4.07	3.11
LM4947TLTR-ND	Mono Class D/Stereo Audio Subsystem OCL Headphone Amp/National 3D*	25-microSMD	711.55/250		
LM4949TLCT-ND	Stereo Class D Audio Subystem with OCL Headphone*	25-microSMD	5.70	4.34	3.31
LM4949TLTR-ND	Stereo Class D Audio Subystem with OCL Headphone*	25-microSMD	758.10/250		
LM4950TA-ND	7.5W Mono BTL or 3.1W Stereo Audio Power Amp*	TO-220-5	2.63	2.00	1.53
LM4950TS-ND	7.5W Mono BTL or 3.1W Stereo Audio Power Amp*	TO-263-5	2.63	2.00	1.53
LM4951SDCT-ND	Wide Voltage Range 1.8W Audio Amp	10-LLP	2.73	2.08	1.59
LM4951SDTR-ND	Wide Voltage Range 1.8W Audio Amp	10-LLP	1373.40/1,000		
LM4954TLCT-ND	High Voltage 3W Audio Power Amp*	9-microSMD	2.63	2.00	1.53
LM4954TLTR-ND	High Voltage 3W Audio Power Amp*	9-microSMD	349.13/250		
LM4960SQCT-ND	Piezoelectric Speaker Driver	28-LLP	5.95	4.53	3.46
LM4960SQTR-ND	Piezoelectric Speaker Driver	28-LLP	2998.80/1,000		
LM4961LQCT-ND	Ceramic Speaker Driver	28-LLP	5.00	3.80	2.90
LM4961LQTR-ND	Ceramic Speaker Driver	28-LLP	2520.00/1,000		
LM4970SDCT-ND	Audio Sync. Color LED Driver	14-LLP	2.65	1.97	1.46
LM4970SDTR-ND	Audio Sync. Color LED Driver	14-LLP	1094.40/1,000		
LM4980SDCT-ND	2 Cell Battery, 1mA, 42mW Per Channel High Fidelity Stereo Headphone Audio Amp*	10-LLP	5.95	4.53	3.46
LM4980SDTR-ND	2 Cell Battery, 1mA, 42mW Per Channel High Fidelity Stereo Headphone Audio Amp*	10-LLP	2998.80/1,000		
LM4981SQCT-ND	80mW Stereo Headphone Amp*	16-LLP	2.73	2.08	1.59
LM4981SQTR-ND	80mW Stereo Headphone Amp*	16-LLP	1373.40/1,000		
LM4982TLCT-ND	80mW Stereo Headphone Amp*	16-microSMD	2.95	2.19	1.62
LM4982TLTR-ND	80mW Stereo Headphone Amp*	16-microSMD	320.63/250		
LM4985TMCT-ND	Low Noise Stereo Headphone Amp, with OCL Output and I^{2}C Volume Control*	12-microSMD	3.48	2.65	2.02
LM4985TMTR-ND	Low Noise Stereo Headphone Amp, with OCL Output and I^{2}C Volume Control*	12-microSMD	462.18/250		
LM4990ITLCT-ND	2W Audio Power Amp*	9-microSMD	1.25	.92	.67
LM4990ITLTR-ND	2W Audio Power Amp*	9-microSMD	124.88/250		
LM4990LDCT-ND	2W Audio Power Amp*	10-LLP	1.73	1.27	.92
LM4990LDTR-ND	2W Audio Power Amp*	10-LLP	598.00/1,000		
LM4990MHCT-ND	2W Audio Power Amp*	10-TSSOP	1.95	1.45	1.08
LM4990MHTR-ND	2W Audio Power Amp*	10-TSSOP	806.40/1,000		
LM4990MMCT-ND	2W Audio Power Amp*	8-MSOP	1.25	.92	.67
LM4990MMTR-ND	2W Audio Power Amp*	8-MSOP	432.90/1,000		
LM4992SDCT-ND	420mW Stereo Cell Phone Audio Amp	14-LLP	2.06	1.53	1.14
LM4992SDTR-ND	420mW Stereo Cell Phone Audio Amp	14-LLP	224.44/250		
LM4995SDCT-ND	1.3W Audio Power Amp*	8-LLP	1.77	1.32	.97
LM4995SDTR-ND	1.3W Audio Power Amp*	8-LLP	729.60/1,000		
LM5000-3MTC-ND	High Voltage Switch Mode Regulator*	16-TSSOP	4.75	3.61	2.76
LM5000EVAL-ND	Evaluation Board for LM5000	—	57.45	—	—
LM5000SD-3CT-ND	High Voltage Switch Mode Regulator	16-LLP	4.75	3.61	2.76
LM5000SD-3TR-ND	High Voltage Switch Mode Regulator	16-LLP	2394.00/1,000		
LM5000SD-6CT-ND	High Voltage Switch Mode Regulator	16-LLP	4.75	3.61	2.76
LM5000SD-6TR-ND	High Voltage Switch Mode Regulator	16-LLP	2394.00/1,000		
LM5001MA-ND	High Voltage Switch Mode Regulator*	8-SOIC	3.58	2.72	2.08
LM5001SDCT-ND	High Voltage Switch Mode Regulator*	8-LLP	3.58	2.72	2.08
LM5001SDTR-ND	High Voltage Switch Mode Regulator*	8-LLP	1801.80/1,000		
LM5002MA-ND	High Voltage Switch Mode Regulator*	8-SOIC	3.10	2.36	1.80
LM5005MH-ND	High Voltage 2.5A Buck Regulator*	20-TSSOP	5.59	4.42	3.54
LM5007EVAL-ND	Evaluation Board for LM5007	—	38.25	—	—
LM5007MMCT-ND	80V Buck Switching Regulator*	8-MSOP	3.80	2.89	2.21
LM5007MMTR-ND	80V Buck Switching Regulator*	8-MSOP	1915.20/1,000		
LM5007SDCT-ND	80V Buck Switching Regulator*	8-LLP	3.80	2.89	2.21
LM5007SDTR-ND	80V Buck Switching Regulator*	8-LLP	1915.20/1,000		
LM5007SDEVAL-ND	Evaluation Board for LM5007SD	—	43.20	—	—
LM5008EVAL-ND	Evaluation Board for LM5008	—	38.25	—	—
LM5008MMCT-ND	100V Buck Switching Regulator*	8-MSOP	4.05	3.08	2.35
LM5008MMTR-ND	100V Buck Switching Regulator*	8-MSOP	2041.20/1,000		
LM5008SDCCT-ND	100V Buck Switching Regulator*	8-LLP	4.05	3.08	2.35
LM5008SDCTR-ND	100V Buck Switching Regulator*	8-LLP	2041.20/1,000		
LM5009MMCT-ND	100V, 150mA Buck Switching Regulator*	8-MSOP	3.09	2.30	1.70
LM5009MMTR-ND	100V, 150mA Buck Switching Regulator*	8-MSOP	1277.44/1,000		
LM5010AMH-ND	75V, 1A Buck Switching Regulator*	14-TSSOP	5.00	3.80	2.90
LM5010ASDCT-ND	75V, 1A Buck Switching Regulator*	10-LLP	5.00	3.80	2.90

** RoHS Compliant*

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM5010ASDTR-ND	75V, 1A Buck Switching Regulator*	10-LLP	2520.00/1,000		
LM5010MH-ND	75V, 1A Buck Switching Regulator*	14-TSSOP	4.53	3.44	2.63
LM5010SDCT-ND	75V, 1A Buck Switching Regulator*	10-LLP	4.53	3.44	2.63
LM5010SDTR-ND	75V, 1A Buck Switching Regulator*	10-LLP	2280.60/1,000		
LM5020EVAL-ND	Evaluation Board for LM5020	—	76.50	—	—
LM5020MM-1CT-ND	100V Current Mode PWM Controller*	10-MSOP	2.91	2.17	1.60
LM5020MM-1TR-ND	100V Current Mode PWM Controller*	10-MSOP	1203.20/1,000		
LM5020MM-2CT-ND	100V Current Mode PWM Controller*	10-MSOP	2.91	2.17	1.60
LM5020MM-2TR-ND	100V Current Mode PWM Controller*	10-MSOP	1203.20/1,000		
LM5020SD-1CT-ND	100V Current Mode PWM Controller	10-LLP	2.91	2.17	1.60
LM5020SD-1TR-ND	100V Current Mode PWM Controller	10-LLP	1203.20/1,000		
LM5020SD-2CT-ND	100V Current Mode PWM Controller	10-LLP	2.91	2.17	1.60
LM5020SD-2TR-ND	100V Current Mode PWM Controller	10-LLP	1203.20/1,000		
LM5021MM-1CT-ND	AC/DC Current Mode PWM Controller*	8-MSOP	1.89	1.41	1.04
LM5021MM-1TR-ND	AC/DC Current Mode PWM Controller*	8-MSOP	780.80/1,000		
LM5021MM-2CT-ND	AC/DC Current Mode PWM Controller*	8-MSOP	1.89	1.41	1.04
LM5021MM-2TR-ND	AC/DC Current Mode PWM Controller*	8-MSOP	780.80/1,000		
LM5021NA-1-ND	AC/DC Current Mode PWM Controller*	8-MDip	2.51	1.87	1.38
LM5021NA-2-ND	AC/DC Current Mode PWM Controller*	8-MDip	2.51	1.87	1.38
LM5025AMTC-ND	Active Clamp Voltage Mode PWM Controller*	16-TSSOP	3.10	2.36	1.80
LM5025BMTC-ND	Active Clamp Voltage Mode PWM Controller*	16-TSSOP	3.10	2.36	1.80
LM5025BSDCT-ND	Active Clamp Voltage Mode PWM Controller*	16-LLP	3.10	2.36	1.80
LM5025BSDTR-ND	Active Clamp Voltage Mode PWM Controller*	16-LLP	1562.40/1,000		
LM5025EVAL-ND	Evaluation Board for LM5025	—	171.00	—	—
LM5025MTC-ND	Active Clamp Voltage Mode PWM Controller*	16-TSSOP	3.10	2.36	1.80
LM5025SDCT-ND	Active Clamp Voltage Mode PWM Controller	16-LLP	3.10	2.36	1.80
LM5025SDTR-ND	Active Clamp Voltage Mode PWM Controller	16-LLP	1562.40/1,000		
LM5026MT-ND	Active Clamp Current Mode PWM Controller*	16-TSSOP	2.63	2.00	1.53
LM5026SDCT-ND	Active Clamp Current Mode PWM Controller*	16-LLP	2.98	2.27	1.73
LM5026SDTR-ND	Active Clamp Current Mode PWM Controller*	16-LLP	1499.40/1,000		
LM5030EVAL-ND	Evaluation Board for LM5030	—	133.95	—	—
LM5030MMCT-ND	100V Push-Pull PWM Controller*	10-MSOP	2.85	2.17	1.66
LM5030MMTR-ND	100V Push-Pull PWM Controller*	10-MSOP	1436.40/1,000		
LM5030SDCT-ND	100V Push-Pull PWM Controller	10-LLP	2.73	2.08	1.59
LM5030SDTR-ND	100V Push-Pull PWM Controller	10-LLP	1373.40/1,000		
LM5032MTC-ND	High Voltage Dual Interleaved Current Mode Controller	16-TSSOP	3.68	2.80	2.14
LM5033MMCT-ND	100V Push-Pull Voltage Mode PWM Controller*	10-MSOP	2.95	2.19	1.62
LM5033MMTR-ND	100V Push-Pull Voltage Mode PWM Controller*	10-MSOP	1216.00/1,000		
LM5033SDCT-ND	100V Push-Pull Voltage Mode PWM Controller	10-LLP	2.95	2.19	1.62
LM5033SDTR-ND	100V Push-Pull Voltage Mode PWM Controller	10-LLP	1216.00/1,000		
LM5034MTC-ND	High Volt. Dual Interleaved Current Mode Controller*	20-TSSOP	4.53	3.44	2.63
LM5035ASQCT-ND	PWM Controller with Integrated Half-Bridge and SyncFET Drivers* ***NEW!***	24-LLP	4.53	3.44	2.63
LM5035ASQTR-ND	PWM Controller with Integrated Half-Bridge and SyncFET Drivers* ***NEW!***	24-LLP	2280.60/1,000		
LM5035MH-ND	PWM Controller with Integrated Half-Bridge and SyncFET Drivers*	20-TSSOP	4.53	3.44	2.63
LM5035SQCT-ND	PWM Controller w/Integrated Half-Bridge/SyncFET Driver*	24-LLP	4.53	3.44	2.63
LM5035SQTR-ND	PWM Controller w/Integrated Half-Bridge/SyncFET Driver*	24-LLP	2316.80/1,000		
LM5041AMTC-ND	Cascaded PWM Controller*	16-TSSOP	5.10	3.88	2.96
LM5041ASDCT-ND	Cascaded PWM Controller	16-LLP	5.10	3.88	2.96
LM5041ASDTR-ND	Cascaded PWM Controller	16-LLP	2570.40/1,000		
LM5041MTC-ND	Cascaded PWM Controller	16-TSSOP	5.10	3.88	2.96
LM5041SDCT-ND	Cascaded PWM Controller*	16-LLP	5.10	3.88	2.96
LM5041SDTR-ND	Cascaded PWM Controller*	16-LLP	2570.40/1,000		
LM5067MM-1CT-ND	Negative Hot Swap/Inrush Current Controller with Power Limiting, Latch Off*	10-MSOP	3.20	2.44	1.86
LM5067MM-1TR-ND	Negative Hot Swap/Inrush Current Controller with Power Limiting, Latch Off*	10-MSOP	1612.80/1,000		
LM5067MM-2CT-ND	Negative Hot Swap/Inrush Current Controller with Power Limiting, Auto Restart*	10-MSOP	3.20	2.44	1.86
LM5067MM-2TR-ND	Negative Hot Swap/Inrush Current Controller with Power Limiting, Auto Restart*	10-MSOP	1612.80/1,000		
LM5068EVAL-ND	Evaluation Board for LM5068	—	153.00	—	—
LM5068MM-1CT-ND	Negative Voltage Hot Swap Controller	8-MSOP	3.20	2.44	1.86
LM5068MM-1TR-ND	Negative Voltage Hot Swap Controller	8-MSOP	1612.80/1,000		
LM5068MM-2CT-ND	Negative Voltage Hot Swap Controller	8-MSOP	3.20	2.44	1.86
LM5068MM-2TR-ND	Negative Voltage Hot Swap Controller	8-MSOP	1612.80/1,000		
LM5068MM-3CT-ND	Negative Voltage Hot Swap Controller	8-MSOP	3.20	2.44	1.86
LM5068MM-3TR-ND	Negative Voltage Hot Swap Controller	8-MSOP	1612.80/1,000		
LM5068MM-4CT-ND	Negative Voltage Hot Swap Controller	8-MSOP	3.20	2.44	1.86
LM5068MM-4TR-ND	Negative Voltage Hot Swap Controller	8-MSOP	1612.80/1,000		
LM5069MM-1CT-ND	Positive Voltage Hot Swap Controller*	10-MSOP	3.20	2.44	1.86
LM5069MM-1TR-ND	Positive Voltage Hot Swap Controller*	10-MSOP	1612.80/1,000		
LM5069MM-2CT-ND	Positive Voltage Hot Swap Controller*	10-MSOP	3.20	2.44	1.86
LM5069MM-2TR-ND	Positive Voltage Hot Swap Controller*	10-MSOP	1612.80/1,000		
LM5070MTC-50-ND	Integrated Power Over Ethernet PD Interface and PWM Controller, Slope*	16-TSSOP	3.45	2.63	2.01
LM5070MTC-80-ND	Integrated Power Over Ethernet PD Interface and PWM Controller, Slope*	16-TSSOP	3.45	2.63	2.01
LM5070SD-50CT-ND	Integrated Power Over Ethernet PD Interface and PWM Controller, No Slope	16-LLP	3.45	2.63	2.01
LM5070SD-50TR-ND	Integrated Power Over Ethernet PD Interface and PWM Controller, No Slope	16-LLP	1738.80/1,000		
LM5070SD-80CT-ND	Integrated Power Over Ethernet PD Interface and PWM Controller, Slope	16-LLP	3.45	2.63	2.01
LM5070SD-80TR-ND	Integrated Power Over Ethernet PD Interface and PWM Controller, Slope	16-LLP	1738.80/1,000		
LM5071MT-50-ND	Power Over Ethernet PD Controller*	16-TSSOP	3.45	2.63	2.01
LM5071MT-80-ND	Power Over Ethernet PD Controller*	16-TSSOP	3.45	2.63	2.01
LM5072MH-50-ND	Power Over Ethernet PD Controller*	16-TSSOP	4.40	3.35	2.56
LM5072MH-80-ND	Power Over Ethernet PD Controller*	16-TSSOP	4.40	3.35	2.56
LM5073MH-ND	100V Power Over Ethernet PD Interface with Aux Support*	14-TSSOP	3.10	2.36	1.80
LM5080MMCT-ND	Modular Current Sharing Controller*	8-MSOP	1.77	1.32	.97
LM5080MMTR-ND	Modular Current Sharing Controller*	8-MSOP	729.60/1,000		
LM5009SDCCT-ND	150mA, 100V Buck Switching Regulator*	8-LLP	3.09	2.30	1.70
LM5009SDCTR-ND	150mA, 100V Buck Switching Regulator*	8-LLP	1277.44/1,000		
LM5100AM-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	3.20	2.44	1.86
LM5100ASDCT-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP	3.20	2.44	1.86
LM5100ASDTR-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP	1612.80/1,000		
LM5100BMA-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	2.88	2.19	1.67
LM5100BSDCT-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	2.88	2.19	1.67
LM5100BSDTR-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	1449.00/1,000		

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM5100CMA-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	2.73	2.08	1.59
LM5100CSDCT-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	2.73	2.08	1.59
LM5100CSDTR-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	1373.40/1,000		
LM5100M-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	2.85	2.17	1.66
LM5100SDCT-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP	2.85	2.17	1.66
LM5100SDTR-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP	1436.40/1,000		
LM5101AM-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	3.20	2.44	1.86
LM5101ASDCT-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	3.20	2.44	1.86
LM5101ASDTR-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	1612.80/1,000		
LM5101BMA-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	2.88	2.19	1.67
LM5101BSDCT-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	2.88	2.19	1.67
LM5101BSDTR-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	1449.00/1,000		
LM5101CMA-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	2.73	2.08	1.59
LM5101CSDCT-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	2.73	2.08	1.59
LM5101CSDTR-ND	High Voltage, High Side and Low Side Gate Driver*	10-LLP	1373.40/1,000		
LM5101M-ND	High Voltage, High Side and Low Side Gate Driver*	8-SOIC	2.85	2.17	1.66
LM5101SDCT-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP	2.55	1.94	1.48
LM5101SDTR-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP	1285.20/1,000		
LM5102MMCT-ND	High Voltage Half-Bridge Gate Driver	10-MSOP	3.20	2.44	1.86
LM5102MMTR-ND	High Voltage Half-Bridge Gate Driver	10-MSOP	1612.80/1,000		
LM5102SDCT-ND	High Voltage Half-Bridge Gate Driver	10-LLP	3.20	2.44	1.86
LM5102SDTR-ND	High Voltage Half-Bridge Gate Driver	10-LLP	1612.80/1,000		
LM5104M-ND	High Voltage Half-Bridge Gate Driver*	8-SOIC	3.20	2.44	1.86
LM5104SDCT-ND	High Voltage Half-Bridge Gate Driver*	10-LLP	3.20	2.44	1.86
LM5104SDTR-ND	High Voltage Half-Bridge Gate Driver*	10-LLP	1612.80/1,000		
LM5105SDCT-ND	100V Half-Bridge Gate Driver*	10-LLP	2.95	2.19	1.62
LM5105SDTR-ND	100V Half-Bridge Gate Driver*	10-LLP	1216.00/1,000		
LM5106MMCT-ND	100V Half-Bridge Gate Driver*	10-MSOP	2.08	1.55	1.14
LM5106MMTR-ND	100V Half-Bridge Gate Driver*	10-MSOP	857.60/1,000		
LM5106SDCT-ND	100V Half Bridge Gate Driver*	10-LLP	2.08	1.55	1.14
LM5106SDTR-ND	100V Half Bridge Gate Driver*	10-LLP	857.60/1,000		
LM5107MA-ND	100V, 1.4A Peak Half-Bridge Gate Driver*	8-SOIC	2.80	2.08	1.54
LM5107SDCT-ND	100V, 1.4A Peak Half-Bridge Gate Driver	8-LLP	2.65	1.97	1.46
LM5107SDTR-ND	100V, 1.4A Peak Half-Bridge Gate Driver	8-LLP	1094.40/1,000		
LM5109AMA-ND	100V, 1A Peak Half-Bridge Gate Driver*	8-SOIC	1.62	1.21	.89
LM5109ASDCT-ND	100V, 1A Peak Half-Bridge Gate Driver*	8-LLP	1.61	1.20	.89
LM5109ASDTR-ND	100V, 1A Peak Half-Bridge Gate Driver*	8-LLP	665.60/1,000		
LM5109BSDCT-ND	High Voltage, 1A Peak Half-Bridge Gate Driver*	8-LLP	1.77	1.32	.97
LM5109BSDTR-ND	High Voltage, 1A Peak Half-Bridge Gate Driver*	8-LLP	729.60/1,000		
LM5109SDCT-ND	100V, 1A Peak Half-Bridge Gate Driver	8-LLP	1.76	1.29	.94
LM5109SDTR-ND	100V, 1A Peak Half-Bridge Gate Driver	8-LLP	608.40/1,000		
LM5110-1M-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage*	8-SOIC	1.92	1.43	1.06
LM5110-1SDCT-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	1.92	1.43	1.06
LM5110-1SDTR-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	791.04/1,000		
LM5110-2M-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage*	8-SOIC	1.92	1.43	1.06
LM5110-2SDCT-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	1.92	1.43	1.06
LM5110-2SDTR-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	791.04/1,000		
LM5110-3M-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage*	8-SOIC	1.92	1.43	1.06
LM5110-3SDCT-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	1.92	1.43	1.06
LM5110-3SDTR-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	791.04/1,000		
LM5111-1M-ND	Dual 5A Compound Gate Driver	8-SOIC	1.92	1.43	1.06
LM5111-1MYCT-ND	Dual 5A Compound Gate Driver*	8-MSOP	2.21	1.64	1.22
LM5111-1MYTR-ND	Dual 5A Compound Gate Driver*	8-MSOP	912.64/1,000		
LM5111-2M-ND	Dual 5A Compound Gate Driver*	8-SOIC	1.92	1.43	1.06
LM5111-2MYCT-ND	Dual 5A Compound Gate Driver*	8-MSOP	2.21	1.64	1.22
LM5111-2MYTR-ND	Dual 5A Compound Gate Driver*	8-MSOP	912.64/1,000		
LM5111-3M-ND	Dual 5A Compound Gate Driver*	8-SOIC	1.92	1.43	1.06
LM5111-3MYCT-ND	Dual 5A Compound Gate Driver*	8-MSOP	2.21	1.64	1.22
LM5111-3MYTR-ND	Dual 5A Compound Gate Driver*	8-MSOP	912.64/1,000		
LM5112MYCT-ND	Tiny 7A MOSFET Gate Driver*	8-MSOP	1.78	1.31	.95
LM5112MYTR-ND	Tiny 7A MOSFET Gate Driver*	8-MSOP	617.50/1,000		
LM5112SDCT-ND	Tiny 7A MOSFET Gate Driver*	6-LLP	1.78	1.31	.95
LM5112SDTR-ND	Tiny 7A MOSFET Gate Driver*	6-LLP	617.50/1,000		
LM5115MTC-ND	Secondary Side Post Regulator Controller*	16-TSSOP	4.28	3.25	2.48
LM5115SDCT-ND	Secondary Side Post Regulator Controller*	16-LLP	4.28	3.25	2.48
LM5115SDTR-ND	Secondary Side Post Regulator Controller*	16-LLP	2154.60/1,000		
LM5116MH-ND	Wide Range Synchronous Buck Controller*	20-TSSOP	5.88	4.65	3.73
LM5574EVAL-ND	Evaluation Board for LM5574	—	39.88	—	—
LM5574MT-ND	75V, 0.5A Buck Switching Regulator*	16-TSSOP	3.93	2.99	2.28
LM5575EVAL-ND	Evaluation Board for LM5575	—	39.88	—	—
LM5575MH-ND	75V, 1.5A Buck Switching Regulator*	16-TSSOP	5.10	3.88	2.96
LM5576EVAL-ND	Evaluation Board for LM5576	—	39.88	—	—
LM5576MH-ND	75V, 3A Buck Switching Regulator*	20-TSSOP	5.80	4.59	3.68
LM5642MH-ND	High Voltage, Dual Sync. Buck Converter*	20-ETSSOP	4.28	3.25	2.48
LM5642MTC-ND	High Voltage, Dual Sync. Buck Converter*	28-TSSOP	4.28	3.25	2.48
LM5642XMT-ND	High Voltage, Dual Sync. Buck Converter*	28-TSSOP	4.53	3.44	2.63
LM6132AIM-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp*	8-SOIC	3.40	2.59	1.98
LM6132BIM-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp*	8-SOIC	2.65	2.02	1.54
LM6132BIN-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp*	8-Dip	2.65	2.02	1.54
LM6134AIM-ND	Quad High Speed/LP 7MHz, Rail-to-Rail Op Amp*	14-SOIC	3.90	2.97	2.27
LM6134BIM-ND	Quad Low Power 10MHz, Rail-to-Rail, I/O, Op Amp*	14-SOIC	3.35	2.55	1.95
LM6134BIMXTR-ND	Quad Low Power 10MHz, Rail-to-Rail, I/O, Op Amp	14-SOIC	4187.50/2,500		
LM6134BIN-ND	Quad High Speed/Low Power, 7MHz, Rail-to-Rail Op Amp*	14-Dip	3.35	2.55	1.95
LM6142AIM-ND	Dual High Speed/Low Power Rail-to-Rail Op Amp*	8-SOIC	5.25	3.99	3.05
LM6142BIM-ND	Dual High Speed/Low Power Rail-to-Rail Op Amp*	8-SOIC	4.70	3.58	2.73
LM6144BIM-ND	Quad High Speed/Low Power 17MHz R-R Op Amp*	14-SOIC	5.25	4.15	3.33
LM6152ACM-ND	Dual High Speed 75MHz, R-R, I/O, Op Amp, Vos = 4mV*	8-SOIC	3.93	2.99	2.28
LM6152BCM-ND	Dual High Speed 75MHz, R-R, I/O, Op Amp, Vos = 4mV*	8-SOIC	3.18	2.42	1.85
LM6154BCM-ND	Quad High Speed 75MHz, R-R, I/O, Op Amp, Vos = 7mV*	14-SOIC	5.71	4.52	3.62
LM6171AIM-ND	Voltage Feedback Low Distortion, Low Power Op Amp*	8-SOIC	3.08	2.34	1.79
LM6171BIM-ND	Voltage Feedback Low Distortion, Low Power Op Amp*	8-SOIC	2.53	1.92	1.47
LM6171BIN-ND	Voltage Feedback Low Distortion, Low Power Op Amp*	8-Dip	2.53	1.92	1.47
LM6172IM-ND	Dual HS LP, Low Distortion, Voltage Feedback Op Amp*	8-SOIC	3.63	2.76	2.11
LM6172IMXCT-ND	Dual HS LP, Low Distortion, Voltage Feedback Op Amp*	8-SOIC	3.63	2.76	2.11
LM6172IMXTR-ND	Dual HS LP, Low Distortion, Voltage Feedback Op Amp*	8-SOIC	4531.25/2,500		
LM6172IN-ND	Dual HS LP, Low Distortion, Voltage Feedback Op Amp*	8-Dip	3.63	2.76	2.11
LM6181IM-8-ND	100mA, 100MHz Current Feedback Amp*	8-SOIC	2.65	2.02	1.54
LM6181IN-ND	Current Feedback Amp, 100MHz*	8-Dip	2.65	2.02	1.54
LM6211MFCT-ND	Low Noise, Rail-to-Rail Out Op Amp*	SOT-23-5	2.58	1.96	1.50
LM6211MFTR-ND	Low Noise, Rail-to-Rail Out Op Amp*	SOT-23-5	1297.80/1,000		
LM6511IM-ND	180nS, 3V, Comparator*	8-SOIC	2.65	2.02	1.54
LM6588MA-ND	TFT-LCD Quad, 16V RRIO High Output Current Op Amp*	14-SOIC	2.73	2.08	1.59
LM6588MT-ND	TFT-LCD Quad, 16V RRIO High Output Current Op Amp*	14-TSSOP	2.73	2.08	1.59
LM7121IM-ND	235MHz Tiny Low Power Voltage Feedback Amp*	8-SOIC	3.01	2.24	1.65
LM7121IM5CT-ND	235MHz Tiny Low Power Voltage Feedback Amp*	SOT-23-5	3.01	2.24	1.65

**** RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM7121IM5TR-ND	235MHz Tiny Low Power Voltage Feedback Amp*	SOT-23-5	1241.60/1,000		
LM7171AIM-ND	Very High Speed High Out Volt. Feedback Amp, A Grade*	8-SOIC	2.88	2.19	1.67
LM7171AIN-ND	Very High Speed High Out Volt. Feedback Amp, A Grade*	8-Dip	2.88	2.19	1.67
LM7171BIM-ND	Very High Speed High Out Voltage Feedback Amp*	8-SOIC	2.53	1.92	1.47
LM7171BIMXTR-ND	Very High Speed High Out Voltage Feedback Amp*	8-SOIC	3156.25/2,500		
LM7171BIN-ND	Very High Speed High Out Voltage Feedback Amp*	8-Dip	2.53	1.92	1.47
LM7301IM-ND	Low Power, 4MHz GBW, Rail-to-Rail, In/Out Op Amp*	8-SOIC	2.11	1.57	1.16
LM7301IM5CT-ND	Low Power, 4MHz GBW, Rail-to-Rail, In/Out Op Amp*	SOT-23-5	2.11	1.57	1.16
LM7301IM5TR-ND	Low Power, 4MHz GBW, Rail-to-Rail, In/Out Op Amp*	SOT-23-5	870.40/1,000		
LM7372IMA-ND	Dual High Speed, High Output Current Op Amp*	16-SOIC	4.70	3.58	2.73
LM7372MR-ND	Dual High Speed, High Output Current Op Amp*	8-PSOP	4.70	3.58	2.73
LM7808CT-ND	8V, 1.0A Positive Voltage Regulator*	TO-220	1.63	1.20	.87
LM7905CTNS-ND	5V, 1.5A Negative Voltage Regulator*	TO-220	1.82	1.34	.97
LM7912CT-ND	12V, 1.5A Negative Voltage Regulator*	TO-220	1.82	1.34	.97
LM7915CT-ND	15V, 1.5A Negative Voltage Regulator*	TO-220	1.82	1.34	.97
LM8207MT-ND	TFT 18 Gamma Buffer + VCOM Driver + Volt. Reference*	48-TSSOP	4.25	3.23	2.47
LM8261M5CT-ND	RRIO, High Op Current, Unlimited Cap Load Op Amp*	SOT-23-5	2.67	1.98	1.47
LM8261M5TR-ND	RRIO, High Op Current, Unlimited Cap Load Op Amp*	SOT-23-5	1100.80/1,000		
LM8262MMCT-ND	RRIO, High Op Current, Unlimited Cap Load Op Amp*	8-MSOP	2.92	2.17	1.60
LM8262MMTR-ND	RRIO, High Op Current, Unlimited Cap Load Op Amp*	8-MSOP	1204.48/1,000		
LM8272MMCT-ND	RRIO, High Output, Unlimited Cap Load Op Amp*	8-MSOP	3.10	2.36	1.80
LM8272MMTR-ND	RRIO, High Output, Unlimited Cap Load Op Amp*	8-MSOP	1562.40/1,000		
LM8322JGR8CT-ND	Mobile I/O Companion*	36-microArray	5.29	4.19	3.36
LM8322JGR8TR-ND	Mobile I/O Companion*	36-microArray	3124.80/1,000		
LM8333FLQ8YCT-ND	Mobile I/O Companion*	32-LLP	3.89	3.08	2.47
LM8333FLQ8YTR-ND	Mobile I/O Companion*	32-LLP	587.38/250		
LM8333GGR8CT-ND	Keypad Controller with I/O Expansion*	49-microArray	4.88	3.71	2.83
LM8333GGR8TR-ND	Keypad Controller with I/O Expansion*	49-microArray	2457.00/1,000		
LM8342SDCT-ND	Programmable TFT Vcom Calibrator*	10-LLP	1.77	1.32	.97
LM8342SDTR-ND	Programmable TFT Vcom Calibrator*	10-LLP	729.60/1,000		
LM8364BALMF20CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	.95	.69	.50
LM8364BALMF20TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	296.80/1,000		
LM8364BALMF30CT-ND	Micropower Undervoltage Sensing Circuit*	SOT-23-5	.95	.69	.50
LM8364BALMF30TR-ND	Micropower Undervoltage Sensing Circuit*	SOT-23-5	296.80/1,000		
LM8364BALMF32CT-ND	Micropower Undervoltage Sensing Circuit*	SOT-23-5	.96	.70	.51
LM8364BALMF32TR-ND	Micropower Undervoltage Sensing Circuit*	SOT-23-5	298.20/1,000		
LM8364BALMF45CT-ND	Micropower Undervoltage Sensing Circuit*	SOT-23-5	.95	.69	.50
LM8364BALMF45TR-ND	Micropower Undervoltage Sensing Circuit*	SOT-23-5	296.80/1,000		
LM8365BALMF22CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	1.06	.77	.56
LM8365BALMF22TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	330.40/1,000		
LM8365BALMF27CT-ND	Micropower Undervoltage Sensing Circuit*	SOT-23-5	1.06	.77	.56
LM8365BALMF27TR-ND	Micropower Undervoltage Sensing Circuit*	SOT-23-5	330.40/1,000		
LM8365BALMF45CT-ND	Micropower Undervoltage Sensing Circuit*	SOT-23-5	1.06	.77	.56
LM8365BALMF45TR-ND	Micropower Undervoltage Sensing Circuit*	SOT-23-5	330.40/1,000		
LM8365BCLMF30CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	1.06	.77	.56
LM8365BCLMF30TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	330.40/1,000		
LM9022M-ND	Vacuum Fluorescent Display Filament Driver*	8-SOIC	1.72	1.28	.95
LM9036M-3.3-ND	3.3V, 50mA Ultra Low Quiescent Current Voltage Reg.*	8-SOIC	1.76	1.30	.94
LM9040M-ND	Dual Lambda Sensor Interface Amplifier*	14-SOIC	5.85	4.45	3.40
LM9044V-ND	Lambda Sensor Interface Amplifier*	20-PLCC	3.80	2.89	2.21
LM9061M-ND	MOSFET Driver with Loss Protection	8-SOIC	1.92	1.43	1.06
LM9070T-ND	LDO Voltage Reg. with Keep-Alive ON/OFF Control*	TO-220-7	2.79	2.07	1.53
LM9071T-ND	LDO Voltage Regulator with Delayed Reset*	TO-220-5	2.48	1.84	1.36
LM9076BMA-3.3-ND	150mA Ultra-Low Quiescent Current LDO Regulator*	8-SOIC	2.62	1.95	1.44
LM9076BMA-5.0-ND	150mA Ultra-Low Quiescent Current LDO Regulator*	8-SOIC	2.62	1.95	1.44
LM9076S-3.3-ND	150mA Ultra-Low Quiescent Current LDO Regulator*	TO-263-5	2.80	2.08	1.54
LM9076S-5.0-ND	150mA Ultra-Low Quiescent Current LDO Regulator*	TO-263	2.80	2.08	1.54
LM9076SX-3.3CT-ND	150mA Ultra-Low Quiescent Current LDO Regulator*	TO-263-5	2.80	2.08	1.54
LM9076SX-3.3TR-ND	150mA Ultra-Low Quiescent Current LDO Regulator*	TO-263-5	586.95/500		
LM9822CCWM-ND	3-Channel, 42-Bit, Color Scanner Analog Front End*	28-SOIC	8.93	7.06	5.66
LM9830VJD-ND	36-Bit, Color Document Scanner	100-TQFP	11.90	10.20	9.05
LM9833CCVJD-ND	48-Bit, Color 1200dpi USB Image Scanner	100-TQFP	12.65	10.85	9.62
LM13700N-ND	Dual Operational Transconductance Amp*	16-Dip	1.84	1.37	1.02
LM20123MH-ND	3A, 1.5MHz Synchronous Buck Regulator*	16-eTSSOP	5.48	4.17	3.18
LM20123EVAL-ND	Evaluation Board for LM20123	—	51.00	—	—
LM20124MH-ND	4A, 1MHz Synchronous Buck Regulator*	16-eTSSOP	5.48	4.34	3.48
LM20124EVAL-ND	Evaluation Board for LM20124	—	51.00	—	—
LM20125MH-ND	5A, 500kHz Synchronous Buck Regulator*	16-eTSSOP	5.99	4.74	3.80
LM20125EVAL-ND	Evaluation Board for LM20125	—	51.00	—	—
LM20133MH-ND	3A, Synchronous Buck Regulator with Input Sync.*	16-eTSSOP	5.48	4.17	3.18
LM20133EVAL-ND	Evaluation Board for LM20133	—	51.00	—	—
LM20134MH-ND	4A, Synchronous Buck Regulator with Input Sync.*	16-eTSSOP	5.48	4.34	3.48
LM20134EVAL-ND	Evaluation Board for LM20134	—	51.00	—	—
LM20143MH-ND	3A, Adj. Freq. Synchronous Buck Regulator*	16-eTSSOP	5.48	4.17	3.18
LM20143EVAL-ND	Evaluation Board for LM20143	—	51.00	—	—
LM20144MH-ND	4A, Adj. Freq. Synchronous Buck Regulator*	16-eTSSOP	5.48	4.34	3.48
LM20144EVAL-ND	Evaluation Board for LM20144	—	51.00	—	—
LM20145MH-ND	5A, Adj. Freq. Synchronous Buck Regulator*	16-eTSSOP	5.99	4.74	3.80
LM20145EVAL-ND	Evaluation Board for LM20145	—	51.00	—	—
LM20154MH-ND	4A, 1MHz Sync. Buck Reg. with SYNCOUT*	16-eTSSOP	5.48	4.34	3.48
LM20154EVAL-ND	Evaluation Board for LM20154	—	51.00	—	—
LM20242MH-ND	36V, 2A, Synchronous Buck Regulator*	20-eTSSOP	6.18	4.70	3.59
LM20242EVAL-ND	Evaluation Board for LM20242	—	51.00	—	—
LM25005MH-ND	High Voltage, 2.5A Buck Switching Regulator*	20-TSSOP	5.23	3.98	3.04
LM25007MMCT-ND	High Voltage, 0.5A Buck Switching Regulator*	8-MSOP	3.09	2.30	1.70
LM25007MMTR-ND	High Voltage, 0.5A Buck Switching Regulator*	8-MSOP	1277.44/1,000		
LM25007SDCT-ND	High Voltage, 0.5A Buck Switching Regulator*	8-LLP	3.09	2.30	1.70
LM25007SDTR-ND	High Voltage, 0.5A Buck Switching Regulator*	8-LLP	1277.44/1,000		
LM25010MH-ND	42V, 1.0A Buck Switching Regulator*	14-TSSOP	3.58	2.72	2.08
LM25010SDCT-ND	42V, 1.0A Buck Switching Regulator*	10-LLP	3.58	2.72	2.08
LM25010SDTR-ND	42V, 1.0A Buck Switching Regulator*	10-LLP	1801.80/1,000		
LM25115AMT-ND	Secondary Side Post Regulator Controller*	16-TSSOP	3.33	2.53	1.93
LM25115MT-ND	Secondary Side Post Regulator Controller*	16-TSSOP	3.20	2.44	1.86
LM25115SDCT-ND	Secondary Side Post Regulator Controller*	16-LLP	3.20	2.44	1.86
LM25115SDTR-ND	Secondary Side Post Regulator Controller*	16-LLP	1612.80/1,000		
LM25116MH-ND	Wide Range Synchronous Buck Controller*	20-ETSSOP	5.95	4.53	3.46
LM25574EVAL-ND	Evaluation Board for LM25574	—	39.88	—	—
LM25574MT-ND	42V, 0.5A Buck Switching Regulator*	16-TSSOP	3.20	2.44	1.86
LM25575EVAL-ND	Evaluation Board for LM25575	—	39.88	—	—
LM25575MH-ND	42V, 1.5A Buck Switching Regulator*	16-TSSOP	4.05	3.08	2.35
LM25576EVAL-ND	Evaluation Board for LM25576	—	39.88	—	—
LM25576MH-ND	42V, 3A Buck Switching Regulator*	20-TSSOP	5.48	4.17	3.18
LM26001MXA-ND	1.5A Switching Regluator*	16-TSSOP	5.99	4.74	3.80
LM26400YMH-ND	Dual 2A, 500kHz Wide Input Range Buck Regulator*	16-ETSSOP	5.35	4.07	3.11
LM26400YSDCT-ND	Dual 2A, 500kHz Buck Regulator*	16-LLP	5.35	4.07	3.11
LM26400YSDTR-ND	Dual 2A, 500kHz Buck Regulator*	16-LLP	2696.40/1,000		
LM26480SQ-AACT-ND	Programmable Dual High Current Step-Down DC/DC and Dual Linear Regulators* ***NEW!***	24-LLP	4.53	3.44	2.63
LM26480SQ-AATR-ND	Programmable Dual High Current Step-Down DC/DC and Dual Linear Regulators* ***NEW!***	24-LLP	2280.60/1,000		
LM27212SQCT-ND	Two-Phase Current Mode Hysteretic Buck Controller*	48-LLP	6.26	4.95	3.97
LM27212SQTR-ND	Two-Phase Current Mode Hysteretic Buck Controller*	48-LLP	946.15/250		
LM27212SQXCT-ND	Two-Phase Current Mode Hysteretic Buck Controller*	48-LLP	6.26	4.95	3.97
LM27212SQXTR-ND	Two-Phase Current Mode Hysteretic Buck Controller*	48-LLP	9089.00/2,500		
LM27241MTC-ND	Sync. Buck Regulator Controller for Mobile Systems	20-TSSOP	4.15	3.16	2.41
LM27951SDCT-ND	White LED Driver*	14-LLP	2.36	1.75	1.30
LM27951SDTR-ND	White LED Driver*	14-LLP	972.80/1,000		
LM27952SDCT-ND	White LED Driver*	14-LLP	2.36	1.75	1.30
LM27952SDTR-ND	White LED Driver*	14-LLP	972.80/1,000		
LM27953TLCT-ND	White LED Driver	18-microSMD	2.55	1.94	1.48
LM27953TLTR-ND	White LED Driver	18-microSMD	339.15/250		
LM27961TLCT-ND	Dual Display White LED Driver	18-microSMD	3.20	2.44	1.86
LM27961TLTR-ND	Dual Display White LED Driver	18-microSMD	425.60/250		
LM27961TLEV-ND	Evaluation Board for LM27961TL*	—	108.45	—	—
LM27964SQ-ACT-ND	White LED Driver System with I^2C Compatible*	24-LLP	3.10	2.36	1.80
LM27964SQ-ATR-ND	White LED Driver System with I^2C Compatible	24-LLP	1562.40/1,000		
LM27964SQ-ICT-ND	White LED Driver System with I^2C Compatible	24-LLP	3.10	2.36	1.80
LM27964SQ-ITR-ND	White LED Driver System with I^2C Compatible	24-LLP	1562.40/1,000		
LM27965SQEV-ND	Evaluation Board for LM27965SQ*	—	154.50	—	—
LM27966SQCT-ND	White LED Driver with I^2C Compatible Interface*	24-LLP	2.73	2.08	1.59
LM27966SQTR-ND	White LED Driver with I^2C Compatible Interface*	24-LLP	1373.40/1,000		
LM34910SDCT-ND	40V, 1.25A, High Voltage Buck Switching Regulator	10-LLP	3.20	2.44	1.86
LM34910SDTR-ND	40V, 1.25A, High Voltage Buck Switching Regulator	10-LLP	1612.80/1,000		
LM48310SDCT-ND	Ultra-Low EMI, Filterless, 2.6W, Mono, Class D Audio Power Amp with E^2S* ***NEW!***	10-LLP	2.65	1.97	1.46
LM48310SDTR-ND	Ultra-Low EMI, Filterless, 2.6W, Mono, Class D Audio Power Amp with E^2S* ***NEW!***	10-LLP	1094.40/1,000		
LM48410SQCT-ND	2.3W Stereo Class D Audio Power Amplifier*	16-LLP	3.80	2.89	2.21
LM48410SQTR-ND	2.3W Stereo Class D Audio Power Amplifier*	16-LLP	1915.20/1,000		
LM48411TLCT-ND	Ultra-Low EMI, Filterless, 2.5W, Stereo, Class D Audio Power Amp with E^2S*	16-microSMD	2.85	2.17	1.66
LM48411TLTR-ND	Ultra-Low EMI, Filterless, 2.5W, Stereo, Class D Audio Power Amp with E^2S*	16-microSMD	379.05/250		
LM48510SDCT-ND	Boosted 1.2W Class D Audio Power Amplifier*	16-LLP	3.20	2.44	1.86
LM48510SDTR-ND	Boosted 1.2W Class D Audio Power Amplifier*	16-LLP	1612.80/1,000		
LM48511SQCT-ND	Boosted 3W Class D Audio Power Amplifier*	24-LLP	4.15	3.16	2.41
LM48511SQTR-ND	Boosted 3W Class D Audio Power Amplifier*	24-LLP	2091.60/1,000		
LM48820TMCT-ND	Ground Referenced, Ultra Low Noise, Fixed Gain, 95mW Stereo Headphone Amp*	14-microSMD	2.80	2.08	1.54
LM48820TMTR-ND	Ground Referenced, Ultra Low Noise, Fixed Gain, 95mW Stereo Headphone Amp*	14-microSMD	304.76/250		
LM49100GRCT-ND	Mono Class AB Audio Sub-System with a True-Ground Headphone Amp*	25-microArray	6.68	5.28	4.23
LM49100GRTR-ND	Mono Class AB Audio Sub-System with a True-Ground Headphone Amp*	25-microArray	3943.20/1,000		
LM49370RLCT-ND	Audio Sub-System*	49-microSMD	7.88	6.23	4.99
LM49370RLTR-ND	Audio Sub-System*	49-microSMD	1190.63/250		
LM94021BIMGCT-ND	1.5V, Multi-Gain Analog Temperature Sensor*	SC70-5	1.43	1.05	.76
LM94021BIMGTR-ND	1.5V, Multi-Gain Analog Temperature Sensor*	SC70-5	494.00/1,000		
LM94022BIMGCT-ND	1.5V, Multi-Gain Analog Temperature Sensor*	SC70-5	1.25	.92	.67
LM94022BIMGTR-ND	1.5V, Multi-Gain Analog Temperature Sensor*	SC70-5	432.90/1,000		
LM95071CIMFCT-ND	SPI/Microwire 13-Bit Plus Sign Temperature Sensor*	SOT-23-5	2.06	1.53	1.14
LM95071CIMFTR-ND	SPI/Microwire 13-Bit Plus Sign Temperature Sensor*	SOT-23-5	851.20/1,000		
LM95213CISDCT-ND	2-Diode Input and Local Digital Temp. Sensor*	14-LLP	2.68	1.99	1.48
LM95213CISDTR-ND	2-Diode Input and Local Digital Temp. Sensor*	14-LLP	1107.20/1,000		
LM95214CISDCT-ND	Quad Remote Diode and Local Temp. Sensor*	14-LLP	2.95	2.19	1.62
LM95214CISDTR-ND	Quad Remote Diode and Local Temp. Sensor*	14-LLP	1216.00/1,000		
LM95231BIMM-1CT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.78	2.11	1.61
LM95231BIMM-1TR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1398.60/1,000		
LM95231BIMM-2CT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.78	2.11	1.61
LM95231BIMM-2TR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1398.60/1,000		
LM95231BIMMCT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.78	2.11	1.61
LM95231BIMMTR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	4856.25/3,500		
LM95231CIMM-1CT-ND	Precision Dual Remote Diode Temperature Sensor	8-MSOP	2.95	2.19	1.62
LM95231CIMM-1TR-ND	Precision Dual Remote Diode Temperature Sensor	8-MSOP	1216.00/1,000		
LM95231CIMM-2CT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.95	2.19	1.62
LM95231CIMM-2TR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1216.00/1,000		
LM95231CIMMCT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.95	2.19	1.62
LM95231CIMMTR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1216.00/1,000		
LM95233CISDCT-ND	Dual Remote Diode Temperature Sensor*	14-LLP	2.95	2.19	1.62
LM95233CISDTR-ND	Dual Remote Diode Temperature Sensor*	14-LLP	1216.00/1,000		
LM95234CISDCT-ND	Quad Remote Diode Temperature Sensor*	14-LLP	2.58	1.96	1.50
LM95234CISDTR-ND	Quad Remote Diode Temperature Sensor*	14-LLP	1297.80/1,000		
LM95235CIMMCT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.30	1.71	1.26
LM95235CIMMTR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	948.48/1,000		
LM95235DIMMCT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	3.58	2.72	2.08
LM95235DIMMTR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1801.80/1,000		
LM95235EIMMCT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.58	1.96	1.50
LM95235EIMMTR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	1297.80/1,000		
LM95241CIMM-1CT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.30	1.71	1.26
LM95241CIMM-1TR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	948.48/1,000		
LM95241CIMM-2CT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.30	1.71	1.26
LM95241CIMM-2TR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	948.48/1,000		
LM95241CIMMCT-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	2.30	1.71	1.26
LM95241CIMMTR-ND	Precision Dual Remote Diode Temperature Sensor*	8-MSOP	948.48/1,000		
LM96000CIMT-ND	Hardware Monitor with Integrated Fan Control*	24-TSSOP	4.63	3.52	2.69
LM96194CISQCT-ND	TruTherm™ Hardware Monitor w/PI Fan Control*	48-LLP	7.98	6.31	5.06
LM96194CISQTR-ND	TruTherm™ Hardware Monitor w/PI Fan Control*	48-LLP	1206.50/250		
LM98555CCMH-ND	CCD Driver*	64-TSSOP	6.99	5.53	4.43
LM98714CCMT-ND	3-Channel, 16-Bit, 45 MSPS Digital Copier AFE*	48-TSSOP	9.31	7.98	7.08
LMC555CBPCT-ND	CMOS Timer	8-microSMD	1.25	.92	.67
LMC555CBPTR-ND	CMOS Timer	8-microSMD	124.50/250		
LMC555CM-ND	CMOS Timer*	8-SOIC	1.28	.94	.68
LMC555CMXCT-ND	CMOS Timer*	8-SOIC	1.28	.94	.68
LMC555CMXTR-ND	CMOS Timer*	8-SOIC	1083.75/2,500		
LMC555CMMCT-ND	CMOS Timer, In Small Package*	8-MSOP	1.37	1.01	.74

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMC555CMMTR-ND	CMOS Timer, In Small Package*	8-MSOP	475.80/1,000		
LMC555CN-ND	CMOS Timer*	8-Dip	1.37	1.01	.73
LMC567CM-ND	CMOS Tone Decoder Phase-Lock-Loop*	8-SOIC	1.89	1.41	1.04
LMC567CMXTR-ND	CMOS Tone Decoder Phase-Lock-Loop*	8-SOIC	1906.25/2,500		
LMC567CN-ND	CMOS Tone Decoder Phase-Lock-Loop*	8-Dip	1.89	1.41	1.04
LMC660AIM-ND	Quad CMOS Op Amp, Industrial Temperature*	14-SOIC	2.26	1.68	1.25
LMC660AIMXTR-ND	Quad CMOS Op Amp, Industrial Temperature	14-SOIC	2281.25/2,500		
LMC660AIN-ND	Quad CMOS Op Amp, Industrial Temperature*	14-Dip	2.36	1.75	1.30
LMC660CM-ND	Quad CMOS Op Amp*	14-SOIC	1.86	1.38	1.02
LMC660CMXCT-ND	Quad CMOS Op Amp*	14-SOIC	1.86	1.38	1.02
LMC660CMXTR-ND	Quad CMOS Op Amp*	14-SOIC	1875.00/2,500		
LMC660CN-ND	Quad CMOS Op Amp*	14-Dip	1.98	1.48	1.09
LMC662AIM-ND	Dual CMOS Op Amp, Industrial Temperature*	8-SOIC	2.11	1.57	1.16
LMC662AIMXTR-ND	Dual CMOS Op Amp, Industrial Temperature*	8-SOIC	2125.00/2,500		
LMC662AIN-ND	Dual CMOS Op Amp*	8-Dip	2.33	1.73	1.28
LMC662CM-ND	Dual CMOS Op Amp*	8-SOIC	1.95	1.45	1.08
LMC662CMXTR-ND	Dual CMOS Op Amp*	8-SOIC	1968.75/2,500		
LMC662CN-ND	Dual CMOS Op Amp*	8-Dip	2.08	1.55	1.14
LMC6001AIN-ND	Ultra Ultra-Low Input Current Amp*	8-Dip	14.07	12.06	10.70
LMC6001BIN-ND	Ultra Ultra-Low Input Current Amp*	8-Dip	10.29	8.14	6.52
LMC6024IM-ND	Micropower Quad CMOS Op Amp*	14-SOIC	1.63	1.22	.90
LMC6032IM-ND	Dual CMOS Op Amp, Industrial Temperature*	8-SOIC	1.18	.87	.63
LMC6032IN-ND	Dual CMOS Op Amp, Industrial Temperature*	8-Dip	1.31	.96	.70
LMC6034IM-ND	Quad CMOS Op Amp*	14-SOIC	1.82	1.34	.97
LMC6035IBPCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	1.61	1.19	.86
LMC6035IBPTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	161.25/250		
LMC6035IBPXCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	1.61	1.19	.86
LMC6035IBPXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	1644.75/3,000		
LMC6035IM-ND	Low Power 2.7V, Single Supply CMOS Op Amp*	8-SOIC	1.61	1.19	.86
LMC6035IMXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-SOIC	1370.63/2,500		
LMC6035IMMCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	2.11	1.57	1.16
LMC6035IMMTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	870.40/1,000		
LMC6035IMMXCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	2.11	1.57	1.16
LMC6035IMMXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	2975.00/3,500		
LMC6035ITLCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp*	8-microSMD	1.76	1.30	.94
LMC6035ITLTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp*	8-microSMD	176.25/250		
LMC6036IM-ND	Low Power 2.7V, Single Supply CMOS Op Amp*	14-SOIC	2.20	1.64	1.21
LMC6036IMXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp*	14-SOIC	2218.75/2,500		
LMC6041AIM-ND	Single CMOS Micropower Op Amp*	8-SOIC	2.51	1.87	1.38
LMC6041IM-ND	Single CMOS Micropower Op Amp*	8-SOIC	1.71	1.28	.95
LMC6041IN-ND	Single CMOS Micropower Op Amp*	8-Dip	1.71	1.28	.95
LMC6042AIM-ND	Dual CMOS Micropower Op Amp*	8-SOIC	3.06	2.27	1.68
LMC6042AIN-ND	Dual CMOS Micropower Op Amp*	8-Dip	2.53	1.92	1.47
LMC6042IM-ND	Dual CMOS Micropower Op Amp*	8-SOIC	2.29	1.71	1.26
LMC6042IN-ND	Dual CMOS Micropower Op Amp*	8-Dip	2.29	1.71	1.26
LMC6044AIM-ND	Quad CMOS Micropower Op Amp*	14-SOIC	3.33	2.53	1.93
LMC6044IM-ND	Quad CMOS Micropower Op Amp*	14-SOIC	2.77	2.06	1.52
LMC6044IN-ND	Quad CMOS Micropower Op Amp*	14-Dip	2.82	2.10	1.55
LMC6061AIM-ND	Precision Single CMOS Micropower Op Amp*	8-SOIC	1.90	1.41	1.05
LMC6061IM-ND	Precision Single CMOS Micropower Op Amp*	8-SOIC	1.63	1.20	.87
LMC6062AIM-ND	Precision Dual CMOS Micropower Op Amp*	8-SOIC	3.43	2.61	1.99
LMC6062IM-ND	Precision Dual CMOS Micropower Op Amp*	8-SOIC	3.01	2.24	1.65
LMC6062IN-ND	Precision Dual CMOS Micropower Op Amp*	8-Dip	2.58	1.96	1.50
LMC6064AIM-ND	Precision Quad CMOS Micropower Op Amp*	14-SOIC	5.43	4.13	3.15
LMC6064IM-ND	Precision Quad CMOS Micropower Op Amp*	14-SOIC	4.00	3.04	2.32
LMC6064IN-ND	Precision Quad CMOS Micropower Op Amp*	14-Dip	4.18	3.18	2.43
LMC6081AIM-ND	Precision Single CMOS Op Amp*	8-SOIC	3.93	2.99	2.28
LMC6081IM-ND	Precision Single CMOS Micropower Op Amp*	8-SOIC	2.73	2.08	1.59
LMC6081IN-ND	Precision Single CMOS Op Amp*	8-Dip	2.73	2.08	1.59
LMC6082AIM-ND	Precision Dual CMOS Op Amp*	8-SOIC	5.20	3.96	3.02
LMC6082AIN-ND	Precision Dual CMOS Op Amp*	8-Dip	5.20	3.96	3.02
LMC6082IM-ND	Precision Dual CMOS Op Amp*	8-SOIC	2.93	2.23	1.70
LMC6082IN-ND	Precision Dual CMOS Op Amp*	8-Dip	2.93	2.23	1.70
LMC6084AIM-ND	Precision Quad CMOS Micropower Op Amp*	14-SOIC	5.80	4.59	3.68
LMC6442AIM-ND	Dual Micropower R/R, Output Single Supply Op Amp*	8-SOIC	2.70	2.01	1.48
LMC6442IM-ND	Dual Micropower R/R, Output Single Supply Op Amp*	8-SOIC	2.70	2.01	1.48
LMC6442IN-ND	Dual Micropower R/R, Output Single Supply Op Amp*	8-Dip	2.70	2.01	1.48
LMC6462AIM-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp*	8-SOIC	2.70	2.06	1.57
LMC6462AIN-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp*	8-Dip	2.78	2.11	1.61
LMC6462BIM-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp*	8-SOIC	2.66	1.98	1.47
LMC6462BIN-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp*	8-Dip	2.85	2.12	1.57
LMC6464AIM-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp*	14-SOIC	4.30	3.27	2.50
LMC6464BIM-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp*	14-SOIC	3.68	2.80	2.14
LMC6464BIN-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp*	14-Dip	3.83	2.91	2.22
LMC6482AIM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-SOIC	2.19	1.63	1.21
LMC6482AIN-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-Dip	2.21	1.65	1.22
LMC6482IM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-SOIC	1.82	1.35	1.00
LMC6482IMMCT-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-MSOP	1.82	1.35	1.00
LMC6482IMMTR-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-MSOP	751.36/1,000		
LMC6482IN-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-Dip	1.82	1.35	1.00
LMC6484AIM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-SOIC	3.28	2.49	1.90
LMC6484AIMXCT-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	3.28	2.49	1.90
LMC6484AIMXTR-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	4093.75/2,500		
LMC6484AIN-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-Dip	3.28	2.49	1.90
LMC6484IM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-SOIC	2.55	1.94	1.48
LMC6484IMXTR-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-SOIC	3187.50/2,500		
LMC6484IN-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-Dip	2.68	2.04	1.56
LMC6492AEM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-SOIC	2.65	2.02	1.54
LMC6492BEM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp*	8-SOIC	2.64	1.96	1.45
LMC6492BEMXCT-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2.64	1.96	1.45
LMC6492BEMXTR-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2826.25/2,500		
LMC6494AEM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-SOIC	6.13	4.66	3.56
LMC6494BEM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp*	14-SOIC	3.80	2.89	2.21
LMC6762AIM-ND	CMOS Micropower Rail-to-Rail Comparator*	8-SOIC	2.55	1.94	1.48
LMC6762BIM-ND	CMOS Micropower Rail-to-Rail Comparator*	8-SOIC	2.61	1.94	1.44
LMC6762BIMXTR-ND	CMOS Micropower Rail-to-Rail Comparator*	8-SOIC	2631.25/2,500		
LMC6772AIM-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain*	8-SOIC	2.55	1.94	1.48
LMC6772AIMMCT-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain*	8-MSOP	2.55	1.94	1.48
LMC6772AIMMTR-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain*	8-MSOP	1285.20/1,000		
LMC6772BIM-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain*	8-SOIC	2.61	1.94	1.44
LMC6772BIN-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain*	8-Dip	2.60	1.94	1.43
LMC6953CM-ND	PCI Local Bus Power Supervisor	8-SOIC	3.15	2.40	1.83
LMC7101AIM5XCT-ND	Tiny Low Power Op Amp with R/R Input/Output*	SOT-23-5	1.66	1.22	.89
LMC7101AIM5XTR-ND	Tiny Low Power Op Amp with R/R Input/Output*	SOT-23-5	1690.65/3,000		
LMC7101BIM5NSCT-ND	Tiny Low Power Op Amp with R/R Input/Output*	SOT-23-5	.99	.73	.53
LMC7101BIM5NSTR-ND	Tiny Low Power Op Amp with R/R Input/Output*	SOT-23-5	343.20/1,000		
LMC7111BIM5XCT-ND	Tiny CMOS Op Amp with Rail-to-Rail, Input/Output*	SOT-23-5	1.35	.99	.72
LMC7111BIM5XTR-ND	Tiny CMOS Op Amp with Rail-to-Rail, Input/Output*	SOT-23-5	1377.00/3,000		
LMC7211AIM-ND	Tiny CMOS Comparator with Rail-to-Rail Input*	8-SOIC	1.58	1.18	.87
LMC7211AIM5CT-ND	Tiny CMOS Comparator with Rail-to-Rail Input*	SOT-23-5	1.58	1.18	.87
LMC7211AIM5TR-ND	Tiny CMOS Comparator with Rail-to-Rail Input*	SOT-23-5	652.80/1,000		
LMC7211BIM-ND	Tiny CMOS Comparator with Rail-to-Rail Input*	8-SOIC	1.50	1.10	.80
LMC7211BIM5CT-ND	Tiny CMOS Comparator with Rail-to-Rail Input*	SOT-23-5	1.50	1.10	.80
LMC7211BIM5TR-ND	Tiny CMOS Comparator with Rail-to-Rail Input*	SOT-23-5	520.00/1,000		
LMC7215IM-ND	Micropower Rail-to-Rail CMOS Comparator with Open-Drain/Push-Pull Output*	8-SOIC	1.73	1.27	.92
LMC7215IMXTR-ND	Micropower Rail-to-Rail CMOS Comparator with Open-Drain/Push-Pull Output	8-SOIC	1466.25/2,500		
LMC7215IM5CT-ND	Micropower Rail-to Rail CMOS Comparator with Push-Pull/Open-Drain Outputs*	SOT-23-5	1.73	1.27	.92
LMC7215IM5TR-ND	Micropower Rail-to Rail CMOS Comparator with Push-Pull/Open-Drain Outputs*	SOT-23-5	598.00/1,000		
LMC7221AIM-ND	Tiny CMOS Comparator with R/R Input/Open Drain*	8-SOIC	1.86	1.38	1.02
LMC7221AIM5CT-ND	Tiny CMOS Comparator with R/R Input/Open Drain*	SOT-23-5	1.86	1.38	1.02
LMC7221AIM5TR-ND	Tiny CMOS Comparator with R/R Input/Open Drain*	SOT-23-5	768.00/1,000		
LMC7221BIM-ND	Tiny CMOS Comparator with R/R Input/Open Drain*	8-SOIC	1.76	1.30	.94
LMC7221BIM5CT-ND	Tiny CMOS Comparator with R/R Input/Open Drain*	SOT-23-5	1.76	1.30	.94
LMC7221BIM5TR-ND	Tiny CMOS Comparator with R/R Input/Open Drain*	SOT-23-5	611.00/1,000		
LMC7225IM5CT-ND	Micropower CMOS Comparator with Rail-to-Rail, Open-Drain/Push-Pull Output*	SOT-23-5	1.73	1.27	.92
LMC7225IM5TR-ND	Micropower CMOS Comparator with Rail-to-Rail, Open-Drain/Push-Pull Output*	SOT-23-5	598.00/1,000		
LMC7660IM-ND	Switched Capacitor Voltage Converter*	8-SOIC	1.31	.96	.70
LMC7660IMXCT-ND	Switched Capacitor Voltage Converter*	8-SOIC	1.31	.97	.70
LMC7660IMXTR-ND	Switched Capacitor Voltage Converter*	8-SOIC	1112.44/2,500		
LMC7660IN-ND	Switched Capacitor Voltage Converter*	8-Dip	1.31	.96	.70
LMC8101BPCT-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp	8-microSMD	1.37	1.01	.74
LMC8101BPTR-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp	8-microSMD	137.25/250		
LMC8101MMCT-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp*	8-microSMD	1.37	1.01	.74
LMC8101MMTR-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp*	8-microSMD	475.80/1,000		
LMC8101TPCT-ND	Rail-to-Rail, Input/Output, 2.7V Op Amp	8-microSMD	1.37	1.01	.74
LMC8101TPTR-ND	Rail-to-Rail, Input/Output, 2.7V Op Amp	8-microSMD	137.25/250		
LMD18200T-ND	55V, 3A H Bridge*	TO-220	14.14	12.12	10.75
LMD18201T-ND	55V, 3A H Bridge*	TO-220	15.47	13.26	11.76
LMD18245T-ND	55V, 3A DMOS H Bridge Motor Driver*	TO-220	13.04	11.18	9.91
LMD18400N-ND	60V, 3A DMOS Quad High Side Driver*	20-Dip	9.75	8.36	7.41
LME49600TS-ND	High Performance, High Fidelity, High Current Audio Buffer* ***NEW!***	TO-263-5	8.99	7.11	5.70
LME49710HA-ND	High Performance, High Fidelity Audio Op Amp*	TO-99	9.15	7.85	6.96
LME49710MA-ND	High Performance, High Fidelity Audio Op Amp*	8-SOIC	2.65	1.97	1.46
LME49710NA-ND	High Performance, High Fidelity Audio Op Amp*	8-Dip	2.65	1.97	1.46
LME49720HA-ND	Dual High Performance High Fidelity Audio Op Amp*	TO-99	15.96	13.68	12.13
LME49720MA-ND	Dual High Performance High Fidelity Audio Op Amp*	8-SOIC	4.53	3.44	2.63
LME49720NA-ND	Dual High Performance High Fidelity Audio Op Amp*	8-DIP	4.53	3.44	2.63
LME49740MA-ND	Quad High Performance High Fidelity Op Amp*	14-SOIC	7.98	6.31	5.06
LME49740NA-ND	Quad High Performance High Fidelity Op Amp*	14-Dip	7.98	6.31	5.06
LME49810TB-ND	200V Audio Power Amplifier Driver*	TO-247-15	7.33	5.80	4.65
LME49811TB-ND	High Fidelity 200V Driver* ***NEW!***	TO-247-15	6.64	5.25	4.21
LME49860MA-ND	44V Dual High Performance High Fidelity Audio Op Amp*	8-SOIC	5.00	3.80	2.90
LME49860NA-ND	44V Dual High Performance High Fidelity Audio Op Amp*	8-Dip	5.00	3.80	2.90
LMF100CCN-ND	Dual Switched Capacitor Filter*	20-Dip	6.09	4.82	3.86
LMF100CIWM-ND	High Performance Dual Switched Capacitor Filter*	20-SOIC	5.48	4.17	3.18
LMH0002MA-ND	SMPTE 292M/259M Serial Digital Cable Driver*	8-SOIC	9.87	7.81	6.26
LMH0002SQCT-ND	SMPTE 292M/259M Serial Digital Cable Driver*	16-LLP	9.87	7.81	6.26
LMH0002SQTR-ND	SMPTE 292M/259M Serial Digital Cable Driver*	16-LLP	1492.25/250		
LMH0002TMA-ND	SMPTE 292M/259M Serial Digital Cable Driver*	8-SOIC	12.48	10.70	9.49
LMH0024MA-ND	3.3V SMPTE 259M/344M Adaptive Cable Equalizer*	16-SOIC	16.63	14.25	12.64
LMH0030VS-ND	SMPTE 292M/259M Digital Video Serializer*	64-TQFP	34.05	31.78	29.51
LMH0031VS-ND	SMPTE 292M/259M Digital Video Deserializer/ Descrambler*	64-TQFP	34.05	31.78	29.51
LMH0034MA-ND	SMPTE 292M/259M Adaptive Cable Equalizer*	16-SOIC	24.30	22.68	21.06
LMH0044SQCT-ND	SMPTE 292M/259M Adaptive Cable Equalizer*	16-LLP	24.30	22.68	21.06
LMH0044SQTR-ND	SMPTE 292M/259M Adaptive Cable Equalizer*	16-LLP	5143.50/250		
LMH0046MH-ND	HD/SD SDI Reclocker, Dual Diff. Outputs*	20-TSSOP	32.85	30.66	28.47
LMH0056SQCT-ND	HD/SD SDI Reclocker with 4:1 Input Multiplexer*	48-LLP	34.20	31.92	29.64
LMH0056SQTR-ND	HD/SD SDI Reclocker with 4:1 Input Multiplexer*	48-LLP	7239.00/250		
LMH0202MT-ND	Dual SMPTE 292M/259M Serial Digital Cable Driver*	16-TSSOP	14.54	12.47	11.06
LMH1251MT-ND	YPBPR to RGBHV Converter/2:1 Video Switch*	24-TSSOP	6.97	5.52	4.42
LMH1981MT-ND	Multi-Format Video Sync Separator*	14-TSSOP	8.78	6.94	5.56
LMH2100TMCT-ND	50MHz to 4GHz, 40dB Logarithmic Power Detector* ***NEW!***	6-microSMD	2.85	2.17	1.66
LMH2100TMTR-ND	50MHz to 4GHz, 40dB Logarithmic Power Detector* ***NEW!***	6-microSMD	379.05/250		
LMH6321MR-ND	300mA High Speed Buffer*	8-PSOP	5.35	4.07	3.11
LMH6321TS-ND	300mA High Speed Buffer*	TO-263-7	5.35	4.07	3.11
LMH6502MA-ND	Wideband, Low Power, Linear-in-dB Variable Gain Amp*	14-SOIC	6.95	5.50	4.41
LMH6502MT-ND	Wideband, Low Power, Linear-in-dB Variable Gain Amp	14-TSSOP	6.95	5.50	4.41
LMH6503MA-ND	Wideband, Low Power, Linear Variable Gain Amp*	14-SOIC	6.95	5.50	4.41
LMH6503MT-ND	Wideband, Low Power, Linear Variable Gain Amp*	14-TSSOP	6.95	5.50	4.41
LMH6504MA-ND	Wideband, Low Power, Variable Gain Amp	8-SOIC	5.35	4.07	3.11
LMH6504MMCT-ND	Wideband, Low Power, Variable Gain Amp	8-MSOP	5.35	4.07	3.11
LMH6504MMTR-ND	Wideband, Low Power, Variable Gain Amp	8-MSOP	2696.40/1,000		
LMH6505MA-ND	Wideband, Low Power, Linear Variable Gain Amp*	8-SOIC	5.98	4.55	3.47
LMH6505MMCT-ND	Wideband, Low Power, Linear Variable Gain Amp*	8-MSOP	5.98	4.55	3.47
LMH6505MMTR-ND	Wideband, Low Power, Linear Variable Gain Amp*	8-MSOP	3011.40/1,000		
LMH6515SQCT-ND	600MHz, Digital Controlled, Variable Gain Amp*	16-LLP	8.99	7.11	5.70
LMH6515SQTR-ND	600MHz, Digital Controlled, Variable Gain Amp*	16-LLP	5307.20/1,000		
LMH6525SPCT-ND	4-Channel Laser Diode Driver, Dual Output*	28-LLP	4.48	3.41	2.60
LMH6525SPTR-ND	4-Channel Laser Diode Driver, Dual Output*	28-LLP	2255.40/1,000		
LMH6526SPCT-ND	4-Channel Laser Diode Driver, Dual Output*	28-LLP	4.48	3.41	2.60
LMH6526SPTR-ND	4-Channel Laser Diode Driver, Dual Output*	28-LLP	2255.40/1,000		
LMH6550MA-ND	Differential, High Speed Op Amp	8-SOIC	5.45	4.15	3.17
LMH6550MMCT-ND	Differential, High Speed Op Amp*	8-MSOP	5.45	4.15	3.17
LMH6550MMTR-ND	Differential, High Speed Op Amp*	8-MSOP	2746.80/1,000		
LMH6551MA-ND	Differential, High Speed Op Amp*	8-SOIC	3.80	2.89	2.21
LMH6551MMCT-ND	Differential, High Speed Op Amp	8-MSOP	3.80	2.89	2.21
LMH6551MMTR-ND	Differential, High Speed Op Amp	8-MSOP	1915.20/1,000		
LMH6552MA-ND	1 GHz Fully Differential Amplifier*	8-SOIC	7.88	6.23	4.99

** RoHS Compliant*

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LMH6555SQCT-ND	Differential Driver, 1.2GHz High Speed*	16-LLP	9.89	8.48	7.52
LMH6555SQTR-ND	Differential Driver, 1.2GHz High Speed*	16-LLP	7006.00/1,000		
LMH6559MA-ND	High Speed, Closed Loop Buffer*	8-SOIC	2.79	2.07	1.53
LMH6559MFCT-ND	High Speed, Closed Loop Buffer*	SOT-23-5	2.79	2.07	1.53
LMH6559MFTR-ND	High Speed, Closed Loop Buffer*	SOT-23-5	1152.00/1,000		
LMH6560MA-ND	Quad, High Speed, Closed Loop Buffer*	14-SOIC	5.95	4.53	3.46
LMH6560MT-ND	Quad, High Speed, Closed Loop Buffer	14-TSSOP	5.95	4.53	3.46
LMH6570MA-ND	2:1 High Speed Video Mux*	8-SOIC	5.10	3.88	2.96
LMH6572MQ-ND	Triple 2:1 High Speed Video Mux*	16-SSOP	6.99	5.53	4.43
LMH6574MA-ND	4:1 High Speed Video Mux*	14-SOIC	4.75	3.61	2.76
LMH6582YA-ND	16x8, 550MHz Analog Crosspoint Switch, Gain of 1*	64-TQFP	57.00	53.20	49.40
LMH6583YA-ND	16x8, 550MHz Analog Crosspoint Switch, Gain of 2*	64-TQFP	57.00	53.20	49.40
LMH6601MGCT-ND	250MHz, 2.4V CMOS Op Amp with Shutdown*	SC70-6	2.03	1.51	1.12
LMH6601MGTR-ND	250MHz, 2.4V CMOS Op Amp with Shutdown*	SC70-6	839.68/1,000		
LMH6609MA-ND	900MHz Voltage Feedback Op Amp*	8-SOIC	3.09	2.30	1.70
LMH6609MFCT-ND	900MHz Voltage Feedback Op Amp*	SOT-23-5	9.15	7.85	6.96
LMH6609MFTR-ND	900MHz Voltage Feedback Op Amp*	SOT-23-5	1277.44/1,000		
LMH6622MA-ND	Dual Wideband, Low Noise, 160MHz Op Amp*	8-SOIC	4.15	3.16	2.41
LMH6622MMCT-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-MSOP	4.15	3.16	2.41
LMH6622MMTR-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-MSOP	2091.60/1,000		
LMH6624MA-ND	Single Wideband, Ultra Low Noise Op Amp*	8-SOIC	3.98	3.03	2.31
LMH6624MFCT-ND	Single Wideband, Ultra Low Noise Op Amp*	SOT-23-5	3.98	3.03	2.31
LMH6624MFTR-ND	Single Wideband, Ultra Low Noise Op Amp*	SOT-23-5	2003.40/1,000		
LMH6626MA-ND	Dual Wideband, Ultra Low Noise Op Amp*	8-SOIC	4.88	3.71	2.83
LMH6626MMCT-ND	Dual Wideband, Ultra Low Noise Op Amp	8-MSOP	4.88	3.71	2.83
LMH6626MMTR-ND	Dual Wideband, Ultra Low Noise Op Amp	8-MSOP	2457.00/1,000		
LMH6628MA-ND	Dual Wideband, Low Noise, Voltage Feedback Op Amp*	8-SOIC	3.55	2.70	2.06
LMH6639MA-ND	190MHz Rail-to-Rail Output Amp with Disable*	8-SOIC	2.08	1.55	1.14
LMH6639MFCT-ND	190MHz Rail-to-Rail Output Amp with Disable*	SOT-23-6	2.08	1.55	1.14
LMH6639MFTR-ND	190MHz Rail-to-Rail Output Amp with Disable*	SOT-23-6	857.60/1,000		
LMH6640MFCT-ND	TFT-LCD Single, 16V Rail-to-Rail Out High Op Amp	SOT-23-5	2.75	2.09	1.60
LMH6640MFTR-ND	TFT-LCD Single, 16V Rail-to-Rail Out High Op Amp	SOT-23-5	1386.00/1,000		
LMH6642MA-ND	3V, LP, 130MHz, 75mA Single Supply, R/R Op Amp*	8-SOIC	1.95	1.45	1.08
LMH6642MFCT-ND	3V, LP, 130MHz, 75mA Single Supply, R/R Op Amp*	SOT-23-5	1.95	1.45	1.08
LMH6642MFTR-ND	3V, LP, 130MHz, 75mA Single Supply, R/R Op Amp*	SOT-23-5	806.40/1,000		
LMH6643MA-ND	3V, Low Power, 130MHz, Rail-to-Rail Output Amp*	8-SOIC	2.33	1.73	1.28
LMH6643MMCT-ND	3V, Low Power, 130MHz, Rail-to-Rail Output Amp*	8-MSOP	2.33	1.73	1.28
LMH6643MMTR-ND	3V, Low Power, 130MHz, Rail-to-Rail Output Amp*	8-MSOP	961.28/1,000		
LMH6644MA-ND	3V, Low Power, 130MHz, 75mA R/R Output Amp*	14-SOIC	3.10	2.36	1.80
LMH6644MT-ND	3V, Low Power, 130MHz, 75mA R/R Output Amp*	14-TSSOP	3.10	2.36	1.80
LMH6645MA-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	8-SOIC	2.09	1.56	1.15
LMH6645MFCT-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	SOT-23-5	2.09	1.56	1.15
LMH6645MFTR-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	SOT-23-5	864.00/1,000		
LMH6646MA-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	8-SOIC	2.50	1.90	1.45
LMH6646MMCT-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	8-MSOP	2.50	1.90	1.45
LMH6646MMTR-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	8-MSOP	1260.00/1,000		
LMH6647MA-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	8-SOIC	2.09	1.56	1.15
LMH6647MFCT-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	SOT-23-6	2.09	1.56	1.15
LMH6647MFTR-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown*	SOT-23-6	864.00/1,000		
LMH6654MA-ND	Single, Low Power, 250MHz, Low Noise Amp*	8-SOIC	2.67	1.98	1.47
LMH6654MFCT-ND	Single, Low Power, 250MHz, Low Noise Amp	SOT-23-5	2.67	1.98	1.47
LMH6654MFTR-ND	Single, Low Power, 250MHz, Low Noise Amp	SOT-23-5	1100.80/1,000		
LMH6655MA-ND	Dual, Low Power, 250MHz, Low Noise Amp*	8-SOIC	3.05	2.32	1.77
LMH6655MMCT-ND	Dual, Low Power, 250MHz, Low Noise Amp*	8-MSOP	3.05	2.32	1.77
LMH6655MMTR-ND	Dual, Low Power, 250MHz, Low Noise Amp*	8-MSOP	1537.20/1,000		
LMH6657MFCT-ND	270MHz, Single Supply Amp*	SOT-23-5	2.23	1.66	1.23
LMH6657MFTR-ND	270MHz, Single Supply Amp*	SOT-23-5	921.60/1,000		
LMH6657MGCT-ND	270MHz, Single Supply Amp	SC70-5	2.23	1.66	1.23
LMH6657MGTR-ND	270MHz, Single Supply Amp	SC70-5	921.60/1,000		
LMH6658MA-ND	270MHz, Dual, High Speed, Low Noise Op Amp*	8-SOIC	2.80	2.08	1.54
LMH6658MMCT-ND	270MHz, Dual, High Speed, Low Noise Op Amp	8-MSOP	2.80	2.08	1.54
LMH6658MMTR-ND	270MHz, Dual, High Speed, Low Noise Op Amp	8-MSOP	1155.84/1,000		
LMH6672MA-ND	Dual, High Output Current, High Speed Op Amp*	8-SOIC	3.80	2.89	2.21
LMH6672MR-ND	Dual, High Output Current, High Speed Op Amp*	8-PSOP	3.80	2.89	2.21
LMH6682MA-ND	Dual, 190MHz Single Supply Op Amp	8-SOIC	2.64	1.96	1.45
LMH6682MMCT-ND	Dual, 190MHz Single Supply Op Amp*	8-MSOP	2.64	1.96	1.45
LMH6682MMTR-ND	Dual, 190MHz Single Supply Op Amp*	8-MSOP	1088.00/1,000		
LMH6683MA-ND	Triple, 190MHz Single Supply Op Amp*	14-SOIC	2.95	2.25	1.72
LMH6683MT-ND	Triple, 190MHz Single Supply Op Amp	14-TSSOP	2.95	2.25	1.72
LMH6702MA-ND	720MHz, Ultra Low Distortion, Wideband Op Amp*	8-SOIC	3.55	2.70	2.06
LMH6702MFCT-ND	720MHz, Ultra Low Distortion, Wideband Op Amp*	SOT-23-5	3.55	2.70	2.06
LMH6702MFTR-ND	720MHz, Ultra Low Distortion, Wideband Op Amp*	SOT-23-5	1789.20/1,000		
LMH6703MA-ND	1.2GHz, Low Distortion Op Amp*	8-SOIC	2.98	2.27	1.73
LMH6703MFCT-ND	1.2GHz, Low Distortion Op Amp*	SOT-23-6	2.98	2.27	1.73
LMH6703MFTR-ND	1.2GHz, Low Distortion Op Amp*	SOT-23-6	1499.40/1,000		
LMH6704MA-ND	650MHz Programmable Gain Buffer with Disable*	8-SOIC	2.98	2.27	1.73
LMH6704MFCT-ND	650MHz Programmable Gain Buffer with Disable	SOT-23-6	2.98	2.27	1.73
LMH6704MFTR-ND	650MHz Programmable Gain Buffer with Disable	SOT-23-6	1499.40/1,000		
LMH6714MA-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown*	8-SOIC	2.50	1.86	1.38
LMH6714MFCT-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown*	SOT-23-5	2.50	1.86	1.38
LMH6714MFTR-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown*	SOT-23-5	1034.24/1,000		
LMH6715MA-ND	Dual, Wideband Video Op Amp*	8-SOIC	3.09	2.30	1.70
LMH6718MA-ND	Dual, High Output Programmable Gain Buffer*	8-SOIC	3.28	2.49	1.90
LMH6720MA-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown*	8-SOIC	2.50	1.86	1.38
LMH6720MFCT-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown*	SOT-23-6	2.50	1.86	1.38
LMH6720MFTR-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown*	SOT-23-6	1034.24/1,000		
LMH6722MA-ND	Quad, Wideband Video Op Amp*	14-SOIC	3.55	2.70	2.06
LMH6722MT-ND	Quad, Wideband Video Op Amp*	14-TSSOP	3.55	2.70	2.06
LMH6723MA-ND	370MHz, 1mA Current Feedback Op Amp*	8-SOIC	2.36	1.75	1.30
LMH6723MFCT-ND	370MHz, 1mA Current Feedback Op Amp	SOT-23-5	2.36	1.75	1.30
LMH6723MFTR-ND	370MHz, 1mA Current Feedback Op Amp	SOT-23-5	972.80/1,000		
LMH6724MA-ND	Dual, 370MHz, 1mA Current Feedback Op Amp*	8-SOIC	3.09	2.30	1.70
LMH6725MA-ND	Quad, 370MHz, 1mA Current Feedback Op Amp*	14-SOIC	3.55	2.70	2.06
LMH6725MT-ND	Quad, 370MHz, 1mA Current Feedback Op Amp*	14-TSSOP	3.55	2.70	2.06
LMH6732MA-ND	High Speed Op Amp with Adj. Bandwidth*	8-SOIC	5.73	4.54	3.64
LMH6732MFCT-ND	High Speed Op Amp with Adj. Bandwidth	SOT-23-6	5.73	4.54	3.64
LMH6732MFTR-ND	High Speed Op Amp with Adj. Bandwidth	SOT-23-6	3385.20/1,000		
LMH6733MQ-ND	Single Supply, 1.0GHz, Triple Op Amp*	16-TSSOP	6.18	4.70	3.59
LMH6734MQ-ND	Single Supply, Ultra HS Triple Gain Video Buffer*	16-SSOP	6.18	4.70	3.59
LMH6738MQ-ND	Very Wideband, Low Distortion Triple Op Amp*	16-SSOP	5.48	4.17	3.18
LMH6739MQ-ND	Very Wideband, Low Distortion Triple Video Buffer*	16-SSOP	5.48	4.17	3.18
LMH7220MKCT-ND	High Speed Comparator with LVDS Output*	6-TSOT	4.15	3.16	2.41
LMH7220MKTR-ND	High Speed Comparator with LVDS Output*	6-TSOT	2091.60/1,000		
LMH7322SQCT-ND	Dual 700 ps High Speed Comparator*	24-LLP	6.99	5.53	4.43
LMH7322SQTR-ND	Dual 700 ps High Speed Comparator*	24-LLP	4129.20/1,000		
LMH730151-ND	Triple 2:1 Multiplexer Evaluation Board	—	6.30	—	—
LMH730154-ND	High Speed Differential Amp Evaluation Board	—	6.30	—	—
LMH730275-ND	Triple High Speed SSOP Op Amp Evaluation Board*	—	6.30	—	—
LMH730276-ND	4:1 Multiplexer Evaluation Board	—	6.30	—	—
LMH730277-ND	2:1 Multiplexer Evaluation Board	—	6.30	—	—
LMK02000ISQCT-ND	Precision Clock Conditioner with Integrated PLL*	48-LLP	16.63	14.25	12.64
LMK02000ISQTR-ND	Precision Clock Conditioner with Integrated PLL*	48-LLP	3016.25/250		
LMK02002ISQCT-ND	Precision Clock Conditioner with Integrated PLL*	48-LLP	11.64	9.98	8.85
LMK02002ISQTR-ND	Precision Clock Conditioner with Integrated PLL*	48-LLP	2111.38/250		
LMK03000CISQCT-ND	Precision Clock Conditioner with Integrated VCO*	48-LLP	17.85	16.66	15.47
LMK03000CISQTR-ND	Precision Clock Conditioner with Integrated VCO*	48-LLP	3778.25/250		
LMK03000ISQCT-ND	Precision Clock Conditioner with Integrated VCO*	48-LLP	15.75	14.70	13.65
LMK03000ISQTR-ND	Precision Clock Conditioner with Integrated VCO*	48-LLP	3333.75/250		
LMK03001CISQCT-ND	Precision Clock Conditioner with Integrated VCO*	48-LLP	17.85	16.66	15.47
LMK03001CISQTR-ND	Precision Clock Conditioner with Integrated VCO*	48-LLP	3778.25/250		
LMK03001ISQCT-ND	Precision Clock Conditioner with Integrated VCO*	48-LLP	15.75	14.70	13.65
LMK03001ISQTR-ND	Precision Clock Conditioner with Integrated VCO*	48-LLP	3333.75/250		
LMK03002CISQCT-ND	Precision Clock Conditioner with Integrated VCO*	48-LLP	15.80	13.55	12.01
LMK03002CISQTR-ND	Precision Clock Conditioner with Integrated VCO*	48-LLP	2867.03/250		
LMP2011MA-ND	Single High Precision, Rail-to-Rail Output Op Amp*	8-SOIC	2.50	1.90	1.45
LMP2011MFCT-ND	Single High Precision, Rail-to-Rail Output Op Amp*	SOT-23-5	2.50	1.90	1.45
LMP2011MFTR-ND	Single High Precision, Rail-to-Rail Output Op Amp*	SOT-23-5	1260.00/1,000		
LMP2012MA-ND	Dual, High Precision, Rail-to-Rail Output Op Amp*	8-SOIC	3.68	2.80	2.14
LMP2012MMCT-ND	Dual, High Precision, Rail-to-Rail Output Op Amp*	8-MSOP	3.68	2.80	2.14
LMP2012MMTR-ND	Dual, High Precision, Rail-to-Rail Output Op Amp*	8-MSOP	1852.20/1,000		
LMP2014MT-ND	Quad, High Precision, Rail-to-Rail Output Op Amp*	14-TSSOP	5.48	4.17	3.18
LMP7300MA-ND	Micropower Precision Comparator and Precision Reference with Adjustable Hysteresis*	8-SOIC	2.50	1.90	1.45
LMP7701MFCT-ND	Precision, CMOS Input, Rail-to-Rail I/O Wide Supply Range Amp*	SOT-23-5	2.50	1.90	1.45
LMP7701MFTR-ND	Precision, CMOS Input, Rail-to-Rail I/O Wide Supply Range Amp*	SOT-23-5	1260.00/1,000		
LMP7702MMCT-ND	Precision, CMOS Input, Rail-to-Rail I/O Wide Supply Range Amp*	8-MSOP	3.10	2.36	1.80
LMP7702MMTR-ND	Precision, CMOS Input, Rail-to-Rail I/O Wide Supply Range Amp*	8-MSOP	1562.40/1,000		
LMP7704MT-ND	Precision, CMOS Input, Rail-to-Rail I/O Wide Supply Range Amp*	14-TSSOP	4.53	3.44	2.63
LMP7711MKCT-ND	Single Precision, 17MHz, LN CMOS Input Amp*	TSOT-23-6	2.36	1.75	1.30
LMP7711MKTR-ND	Single Precision, 17MHz, LN CMOS Input Amp*	TSOT-23-6	972.80/1,000		
LMP7712MMCT-ND	Dual Precision, 17MHz, Low Noise CMOS Input Amp*	10-MSOP	2.63	2.00	1.53
LMP7712MMTR-ND	Dual Precision, 17MHz, Low Noise CMOS Input Amp*	10-MSOP	1323.00/1,000		
LMP7715MFCT-ND	Single Precision, 17MHz, Low Noise, CMOS Input Amp*	SOT23-5	2.36	1.75	1.30
LMP7715MFTR-ND	Single Precision, 17MHz, Low Noise, CMOS Input Amp*	SOT23-5	972.80/1,000		
LMP7716MMCT-ND	Dual Precision, 17MHz, Low Noise, CMOS Input Amp*	8-MSOP	2.63	2.00	1.53
LMP7716MMTR-ND	Dual Precision, 17MHz, Low Noise, CMOS Input Amp*	8-MSOP	1323.00/1,000		
LMP7717MA-ND	88MHz, Precision, Low Noise, 1.8V CMOS Input, Decompensated Op Amp*	8-SOIC	2.73	2.08	1.59
LMP7717MFCT-ND	88MHz, Precision, Low Noise, 1.8V CMOS Input, Decompensated Op Amp*	SOT-23-5	2.73	2.08	1.59
LMP7717MFTR-ND	88MHz, Precision, Low Noise, 1.8V CMOS Input, Decompensated Op Amp*	SOT-23-5	1373.40/1,000		
LMP8100AMA-ND	1 to 16V/V Programmable Gain, Precision, 33MHz, CMOS Input, Rail-to-Rail In/Out Amplifier*	14-SOIC	11.64	9.98	8.85
LMP8100MA-ND	1 to 16V/V Programmable Gain, Precision, 33MHz, CMOS Input, Rail-to-Rail In/Out Amplifier*	14-SOIC	5.95	4.53	3.46
LMP8270MA-ND	High Common Mode, Gain of 20, Precision Voltage Diff. Amp*	8-SOIC	3.45	2.63	2.01
LMP8271MA-ND	High Common Mode, Gain of 20, Bidirectional Precision Voltage Diff. Amp*	8-SOIC	3.73	2.84	2.17
LMP8272MA-ND	High Common Mode, Gain of 14, Precision Voltage Diff. Amp*	8-SOIC	3.45	2.63	2.01
LMP8275MA-ND	High Common Mode, Gain of 20, Precision Voltage Diff. Amp*	8-SOIC	3.09	2.30	1.70
LMP8276MA-ND	High Common Mode, Gain of 20, Precision Voltage Diff. Amp*	8-SOIC	2.73	2.08	1.59
LMP8277MA-ND	High Common Mode, Gain of 14, Precision Voltage Diff. Amp*	8-SOIC	3.09	2.30	1.70
LMS1585ACS-ADJ-ND	Adj. 5A LDO Fast Response Regulator*	TO-263	2.55	1.94	1.48
LMS1585ACS-3.3-ND	3.3V, 5A LDO Fast Response Regulator*	TO-263	2.55	1.94	1.48
LMS1585ACT-ADJ-ND	Adj. 5A LDO Fast Response Regulator*	TO-220	2.55	1.94	1.48
LMS1585ACT-3.3-ND	3.3V, 5A LDO Fast Response Regulator*	TO-220	2.55	1.94	1.48
LMS1585AIS-ADJ-ND	Adj. 5A LDO Fast Response Regulator, Ind. Temp.*	TO-263	2.55	1.94	1.48
LMS1585AIS-3.3-ND	3.3V, 5A LDO Fast Response Regulator, Ind. Temp.*	TO-263	2.55	1.94	1.48
LMS1585AIT-ADJ-ND	Adj. 5A LDO Fast Response Regulator, Ind. Temp.*	TO-220	2.55	1.94	1.48
LMS1585AIT-1.5-ND	1.5V, 5A, LDO Fast Response Regulator, Ind. Temp.*	TO-220	2.55	1.94	1.48
LMS1585AIT-3.3-ND	3.3V, 5A LDO Fast Response Regulator, Ind. Temp.*	TO-220	2.55	1.94	1.48
LMS1587CS-ADJ-ND	Adj. 3A LDO Fast Response Regulator	TO-263	2.55	1.94	1.48
LMS1587CS-1.5-ND	1.5V, 3A LDO Fast Response Regulator*	TO-263	2.55	1.94	1.48
LMS1587CT-ADJ-ND	Adj. 3A LDO Fast Response Regulator	TO-220	2.55	1.94	1.48
LMS1587CT-3.3-ND	3.3V, 3A LDO Fast Response Regulator	TO-220	2.55	1.94	1.48
LMS1587IS-ADJ-ND	Adj. 3A LDO Fast Response Regulator, Ind. Temp.	TO-263	2.55	1.94	1.48
LMS1587IS-3.3-ND	3.3V, 3A LDO Fast Response Regulator, Ind. Temp.	TO-263	2.55	1.94	1.48
LMS1587IT-ADJ-ND	Adj. 3A LDO Fast Response Regulator, Ind. Temp.	TO-220	2.55	1.94	1.48
LMS1587IT-3.3-ND	3.3V, 3A LDO Fast Response Regulator, Ind. Temp.*	TO-220	2.55	1.94	1.48
LMS5213IM7-3.3CT-ND	80mA, LDO Voltage Regulator*	SC70-5	1.39	1.02	.74
LMS5213IM7-3.3TR-ND	80mA, LDO Voltage Regulator*	SC70-5	481.00/1,000		
LMS8117ADT-1.8-ND	1.8V, 1A LDO Linear Regulator*	TO-252	1.72	1.27	.92
LMV112SDCT-ND	40MHz Dual Clock Buffer*	8-LLP	1.50	1.10	.80
LMV112SDTR-ND	40MHz Dual Clock Buffer*	8-LLP	520.00/1,000		
LMV115MGCT-ND	GSM Baseband 30MHz, 2.8V Oscillator Buffer	SC70-6	1.18	.87	.63
LMV115MGTR-ND	GSM Baseband 30MHz, 2.8V Oscillator Buffer	SC70-6	408.20/1,000		
LMV116MFCT-ND	Low Volt, 45MHz, R/R Output Op Amp*	SOT-23-5	1.64	1.22	.91
LMV116MFTR-ND	Low Volt, 45MHz, R/R Output Op Amp*	SOT-23-5	678.40/1,000		
LMV118MFCT-ND	Low Volt, 45MHz, R/R Output Op Amp with Shutdown*	SOT-23-6	1.71	1.27	.94
LMV118MFTR-ND	Low Volt, 45MHz, R/R Output Op Amp with Shutdown*	SOT-23-6	704.00/1,000		
LMV221SDCT-ND	RF Logarithmic Power Detector for CDMA/WCDMA*	6-LLP	2.63	2.00	1.53
LMV221SDTR-ND	RF Logarithmic Power Detector for CDMA/WCDMA*	6-LLP	1323.00/1,000		
LMV225TLCT-ND	RF Power Detector for CDMA and WCDMA*	4-microSMD	1.35	.99	.72
LMV225TLTR-ND	RF Power Detector for CDMA and WCDMA*	4-microSMD	135.00/250		
LMV225URCT-ND	RF Power Detector for CDMA and WCDMA*	4-microSMD	1.35	.99	.72
LMV225URTR-ND	RF Power Detector for CDMA and WCDMA*	4-microSMD	135.00/250		
LMV226TLCT-ND	RF Power Detector for CDMA and WCDMA	4-microSMD	1.56	1.16	.86
LMV226TLTR-ND	RF Power Detector for CDMA and WCDMA	4-microSMD	170.10/250		

***** ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LMV227SDCT-ND	RF Power Detector for CDMA and WCDMA*	6-LLP	1.71	1.27	.94
LMV227SDTR-ND	RF Power Detector for CDMA and WCDMA*	6-LLP	705.28/1,000		
LMV228SDCT-ND	RF Power Detector for CDMA and WCDMA*	6-LLP	1.71	1.27	.94
LMV228SDTR-ND	RF Power Detector for CDMA and WCDMA*	6-LLP	705.28/1,000		
LMV228TLCT-ND	RF Power Detector for CDMA and WCDMA*	4-microSMD	1.61	1.19	.86
LMV228TLTR-ND	RF Power Detector for CDMA and WCDMA*	4-microSMD	161.25/250		
LMV228URCT-ND	RF Power Detector for CDMA and WCDMA*	4-microSMD	1.61	1.19	.86
LMV228URTR-ND	RF Power Detector for CDMA and WCDMA*	4-microSMD	161.25/250		
LMV232TLCT-ND	Dual Mean Square RF Power Detector for CDMA and WCDMA*	8-microSMD	2.51	1.87	1.38
LMV232TLTR-ND	Dual Mean Square RF Power Detector for CDMA and WCDMA*	8-microSMD	273.38/250		
LMV242LDCT-ND	Dual Output, Quad-Band GSM/GPRS Power Amp Controller	10-LLP	1.71	1.27	.94
LMV242LDTR-ND	Dual Output, Quad-Band GSM/GPRS Power Amp Controller	10-LLP	704.00/1,000		
LMV243BLCT-ND	Single-Channel, Quad Band GSM Power Controller	8-microSMD	2.57	1.91	1.42
LMV243BLTR-ND	Single-Channel, Quad Band GSM Power Controller	8-microSMD	280.13/250		
LMV301MGCT-ND	Op Amp 1.8V, Low Input Bias, Rail-to-Rail Output*	SC70-5	.96	.71	.52
LMV301MGTR-ND	Op Amp 1.8V, Low Input Bias, Rail-to-Rail Output*	SC70-5	334.10/1,000		
LMV321M5CT-ND	Op Amp Low Voltage*	SOT-23-5	.88	.64	.47
LMV321M5TR-ND	Op Amp Low Voltage*	SOT-23-5	274.40/1,000		
LMV321M7CT-ND	Op Amp Low Voltage (2/3 the size of SOT-23)*	SC70-5	.92	.67	.48
LMV321M7TR-ND	Op Amp Low Voltage (2/3 the size of SOT-23)*	SC70-5	285.60/1,000		
LMV324M-ND	Low Power Quad Op Amp Low Voltage*	14-SOIC	1.02	.75	.55
LMV324MXCT-ND	Low Power Quad Op Amp Low Voltage*	14-SOIC	1.02	.75	.55
LMV324MXTR-ND	Low Power Quad Op Amp Low Voltage*	14-SOIC	867.00/2,500		
LMV324MT-ND	Low Power Quad Op Amp Low Voltage*	14-TSSOP	1.12	.82	.60
LMV331M5CT-ND	Single General Purpose, Low Voltage, TinyPack Comp.*	SOT-23-5	.92	.67	.48
LMV331M5TR-ND	Single General Purpose, Low Voltage, TinyPack Comp.*	SOT-23-5	285.60/1,000		
LMV331M5XCT-ND	General Purpose Low Voltage TinyPack Comparator	SOT-23-5	.92	.67	.48
LMV331M5XTR-ND	General Purpose Low Voltage TinyPack Comparator	SOT-23-5	813.96/3,000		
LMV331M7TR-ND	General Purpose Low Voltage TinyPack Comparator*	SC70-5	298.20/1,000		
LMV331M7XCT-ND	General Purpose Low Voltage TinyPack Comparator*	SC70-5	.96	.70	.51
LMV331M7XTR-ND	General Purpose Low Voltage TinyPack Comparator*	SC70-5	849.87/3,000		
LMV339M-ND	Quad General Purpose, Low Voltage, TinyPack Comp.	14-SOIC	397.80/1,000		
LMV339MT-ND	Quad General Purpose, Low Voltage, TinyPack Comp.*	14-TSSOP	1.28	.94	.68
LMV341MGCT-ND	Single, 2.7V, Rail-to-Rail Op Amp*	SC70-6	.98	.72	.52
LMV341MGTR-ND	Single, 2.7V, Rail-to-Rail Op Amp*	SC70-6	338.00/1,000		
LMV342MA-ND	Dual, 2.7V, Rail-to-Rail, Op Amp*	8-SOIC	1.14	.84	.61
LMV342MMCT-ND	Dual, 2.7V, Rail-to-Rail, Op Amp	8-MSOP	1.18	.87	.63
LMV342MMTR-ND	Dual, 2.7V, Rail-to-Rail, Op Amp	8-MSOP	408.20/1,000		
LMV344MA-ND	Quad, 2.7V, Rail-to-Rail, Op Amp*	14-SOIC	1.25	.92	.67
LMV344MT-ND	Quad, 2.7V, Rail-to-Rail, Op Amp*	14-TSSOP	1.39	1.03	.75
LMV358M-ND	Low Power Dual Op Amp, Low Voltage*	8-SOIC	1.07	.78	.56
LMV358MXCT-ND	Low Power Dual Op Amp, Low Voltage	8-SOIC	1.07	.78	.56
LMV358MXTR-ND	Low Power Dual Op Amp, Low Voltage	8-SOIC	791.35/2,500		
LMV358MMCT-ND	Low Power Dual Op Amp, Low Voltage*	8-MSOP	1.07	.78	.56
LMV358MMTR-ND	Low Power Dual Op Amp, Low Voltage*	8-MSOP	333.20/1,000		
LMV393M-ND	Dual General Purpose Low Voltage, TinyPack Comp.*	8-SOIC	1.01	.75	.54
LMV393MMCT-ND	Dual General Purpose Low Voltage, TinyPack Comp.*	8-MSOP	1.01	.75	.54
LMV393MMTR-ND	Dual General Purpose Low Voltage, TinyPack Comp.*	8-MSOP	351.00/1,000		
LMV393MMXCT-ND	Dual General Purpose Low Voltage, TinyPack Comp.	8-MSOP	1.01	.75	.54
LMV393MMXTR-ND	General Purpose Low Voltage, TinyPack Comparator	8-MSOP	1204.88/3,500		
LMV422MMCT-ND	Dual Rail-to-Rail Output Op Amp	10-MSOP	1.92	1.43	1.06
LMV422MMTR-ND	Dual Rail-to-Rail Output Op Amp	10-MSOP	791.04/1,000		
LMV431ACM5CT-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	SOT-23-5	.70	.51	.37
LMV431ACM5TR-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	SOT-23-5	218.40/1,000		
LMV431ACZ-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	TO-92	.70	.51	.37
LMV431AIM5CT-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	SOT-23-5	.88	.64	.47
LMV431AIM5TR-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	SOT-23-5	274.40/1,000		
LMV431AIZ-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	TO-92	.88	.64	.47
LMV431CM5CT-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	SOT-23-5	.66	.48	.35
LMV431CM5TR-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	SOT-23-5	205.80/1,000		
LMV431CZ-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	TO-92	.66	.48	.35
LMV431IM5CT-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	SOT-23-5	.70	.51	.37
LMV431IM5TR-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	SOT-23-5	218.40/1,000		
LMV431IZ-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator*	TO-92	.70	.51	.37
LMV552MMCT-ND	3MHz, Micropower RRO Amp*	8-MSOP	1.74	1.30	.96
LMV552MMTR-ND	3MHz, Micropower RRO Amp*	8-MSOP	718.08/1,000		
LMV651MGCT-ND	12MHz, Low Voltage, Low Power Op Amp*	SC70-5	1.61	1.18	.86
LMV651MGTR-ND	12MHz, Low Voltage, Low Power Op Amp*	SC70-5	556.40/1,000		
LMV652MMCT-ND	12MHz, Low Voltage, Low Power Amplifier*	8-MSOP	1.74	1.30	.96
LMV652MMTR-ND	12MHz, Low Voltage, Low Power Amplifier*	8-MSOP	718.08/1,000		
LMV654MT-ND	12MHz, Low Voltage, Low Power Amplifier*	14-TSSOP	2.50	1.86	1.38
LMV710M5CT-ND	Low Power, R/R, I/O Op Amp with High Output Current Drive and Shutdown Option*	SOT-23-5	1.50	1.10	.80
LMV710M5TR-ND	Low Power, R/R, I/O Op Amp with High Output Current Drive and Shutdown Option*	SOT-23-5	518.70/1,000		
LMV711M6CT-ND	Low Power, R/R, I/O Op Amp with High Output Current Drive and Shutdown Option*	SOT-23-6	1.61	1.18	.86
LMV711M6TR-ND	Low Power, R/R, I/O Op Amp with High Output Current Drive and Shutdown Option*	SOT-23-6	556.40/1,000		
LMV712BLCT-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp with Independent Shutdown	10-microSMD	2.06	1.53	1.14
LMV712BLTR-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp with Independent Shutdown	10-microSMD	224.44/250		
LMV712LDCT-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp with Independent Shutdown	10-LLP	2.06	1.53	1.14
LMV712LDTR-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp with Independent Shutdown	10-LLP	851.20/1,000		
LMV712MMCT-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp with Independent Shutdown*	10-MSOP	1.83	1.36	1.01
LMV712MMTR-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp with Independent Shutdown*	10-MSOP	755.20/1,000		
LMV712TLCT-ND	Low Power, Low Noise, High Output, R/R, In/Out, Dual Op Amp with Independent Shutdown*	10-microSMD	2.06	1.53	1.14
LMV712TLTR-ND	Low Power, Low Noise, High Output, R/R, In/Out, Dual Op Amp with Independent Shutdown*	10-microSMD	224.44/250		
LMV715MFCT-ND	Low Power, R/R, In/Out Op Amp with High Output Current Drive and Shutdown Option	SOT-23-6	1.43	1.05	.76
LMV715MFTR-ND	Low Power, R/R, In/Out Op Amp with High Output Current Drive and Shutdown Option	SOT-23-6	494.00/1,000		
LMV716MMCT-ND	5MHz, Low Noise, R/R Dual Op Amp*	8-MSOP	1.61	1.18	.86
LMV716MMTR-ND	5MHz, Low Noise, R/R Dual Op Amp*	8-MSOP	556.40/1,000		
LMV721M5CT-ND	Low Noise, Low Voltage, 10MHz, Low Power Op Amp*	SOT-23-5	1.61	1.19	.86
LMV721M5TR-ND	Low Noise, Low Voltage, 10MHz, Low Power Op Amp*	SOT-23-5	559.00/1,000		
LMV721M7CT-ND	Low Noise, Low Voltage, 10MHz, Low Power Op Amp*	SC70-5	1.61	1.19	.86
LMV721M7TR-ND	Low Noise, Low Voltage, 10MHz, Low Power Op Amp*	SC70-5	559.00/1,000		
LMV722LDCT-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp*	8-LLP	1.67	1.25	.92
LMV722LDTR-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp*	8-LLP	691.20/1,000		
LMV722M-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp*	8-SOIC	1.67	1.25	.92
LMV722MMCT-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp*	8-MSOP	1.67	1.25	.92
LMV722MMTR-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp*	8-MSOP	691.20/1,000		
LMV751M5CT-ND	Low Noise, Low Voltage, Single Op Amp*	SOT-23-5	2.02	1.50	1.11
LMV751M5TR-ND	Low Noise, Low Voltage, Single Op Amp*	SOT-23-5	832.00/1,000		
LMV761MA-ND	Low Voltage Prec. Comparator with Push-Pull Output*	8-SOIC	1.56	1.16	.86
LMV761MFCT-ND	Low Voltage Prec. Comparator with Push-Pull Output*	SOT-23-6	1.56	1.16	.86
LMV761MFTR-ND	Low Voltage Prec. Comparator with Push-Pull Output*	SOT-23-6	645.12/1,000		
LMV762MA-ND	Low Voltage Prec. Comparator with Push-Pull Output*	8-SOIC	2.17	1.61	1.19
LMV762MMCT-ND	Low Voltage Prec. Comparator with Push-Pull Output*	8-MSOP	2.17	1.61	1.19
LMV762MMTR-ND	Low Voltage Prec. Comparator with Push-Pull Output*	8-MSOP	896.00/1,000		
LMV771MGCT-ND	Low Offset, Low Noise, Rail-to-Rail Output Op Amp*	SC70-5	1.84	1.35	.98
LMV771MGTR-ND	Low Offset, Low Noise, Rail-to-Rail Output Op Amp*	SC70-5	637.00/1,000		
LMV772MA-ND	Dual Low Offset, Low Noise Op Amp*	8-SOIC	1.74	1.30	.96
LMV772MMCT-ND	Dual Low Offset, Low Noise Op Amp*	8-MSOP	1.74	1.30	.96
LMV772MMTR-ND	Dual Low Offset, Low Noise Op Amp*	8-MSOP	718.08/1,000		
LMV774MT-ND	Quad Low Offset, Low Noise Op Amp*	14-TSSOP	2.17	1.61	1.19
LMV791MKCT-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	TSOT-23-6	1.78	1.31	.95
LMV791MKTR-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	TSOT-23-6	617.50/1,000		
LMV792MMCT-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	10-MSOP	1.97	1.47	1.09
LMV792MMTR-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	10-MSOP	815.36/1,000		
LMV793MA-ND	88MHz, Low Noise, 1.8V CMOS Input, Decompensated Op Amp*	8-SOIC	2.33	1.73	1.28
LMV793MFCT-ND	88MHz, Low Noise, 1.8V CMOS Input Decompensated Op Amp*	SOT-23-5	2.09	1.56	1.15
LMV793MFTR-ND	88MHz, Low Noise, 1.8V CMOS Input Decompensated Op Amp*	SOT-23-5	864.00/1,000		
LMV796MFCT-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	SOT-23-5	1.61	1.19	.86
LMV796MFTR-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	SOT-23-5	559.00/1,000		
LMV797MMCT-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	8-MSOP	1.86	1.38	1.02
LMV797MMTR-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	8-MSOP	766.72/1,000		
LMV821M5CT-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp*	SOT-23-5	1.35	.99	.72
LMV821M5TR-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp*	SOT-23-5	468.00/1,000		
LMV821M7CT-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp	SC70-5	1.39	1.02	.74
LMV821M7TR-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp	SC70-5	481.00/1,000		
LMV822M-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp*	8-SOIC	1.46	1.08	.78
LMV822MMCT-ND	Dual Low Volt, 5MHz, Low Power, R/R, Output Op Amp*	8-MSOP	1.46	1.08	.78
LMV822MMTR-ND	Dual Low Volt, 5MHz, Low Power, R/R, Output Op Amp*	8-MSOP	507.00/1,000		
LMV822MXCT-ND	Low Volt, 5MHz, Low Power, R/R, Output Op Amp*	8-SOIC	1.46	1.08	.78
LMV822MXTR-ND	Low Volt, 5MHz, Low Power, R/R, Output Op Amp*	8-SOIC	1243.13/2,500		
LMV822MMXTR-ND	Low Volt, 5MHz, Low Power, R/R, Output Op Amp*	8-MSOP	1740.38/3,500		
LMV824M-ND	Quad Low Volt, 5MHz, Low Power, R/R, Output Op Amp*	14-SOIC	1.71	1.26	.92
LMV824MT-ND	Quad Low Volt, 5MHz, LP, R/R, Output Op Amp*	14-TSSOP	1.75	1.29	.94
LMV844MT-ND	CMOS In, RRIO, Wide Supply Range Op Amp*	14-TSSOP	3.10	2.36	1.80
LMV931MFCT-ND	Single 1.8V Rail-to-Rail, In/Out, Op Amp*	SOT-23-5	1.39	1.02	.74
LMV931MFTR-ND	Single 1.8V Rail-to-Rail, In/Out, Op Amp*	SOT-23-5	481.00/1,000		
LMV931MGCT-ND	Single 1.8V Rail-to-Rail, In/Out, Op Amp*	SC70-5	1.39	1.02	.74
LMV931MGTR-ND	Single 1.8V Rail-to-Rail, In/Out, Op Amp*	SC70-5	481.00/1,000		
LMV932MA-ND	Dual 1.8V Rail-to-Rail, In/Out, Op Amp*	8-SOIC	1.75	1.29	.94
LMV932MMCT-ND	Dual 1.8V Rail-to-Rail, In/Out, Op Amp*	8-MSOP	1.75	1.29	.94
LMV932MMTR-ND	Dual 1.8V Rail-to-Rail, In/Out, Op Amp*	8-MSOP	605.80/1,000		
LMV934MA-ND	Quad 1.8V Rail-to-Rail, In/Out, Op Amp*	14-SOIC	1.74	1.30	.96
LMV934MT-ND	Quad 1.8V Rail-to-Rail, In/Out, Op Amp*	14-TSSOP	1.74	1.30	.96
LMV951MKCT-ND	1V Rail-to-Rail, In/Out, Op Amp with Shutdown*	SOT-23-6	1.85	1.36	.99
LMV951MKTR-ND	1V Rail-to-Rail, In/Out, Op Amp with Shutdown*	SOT-23-6	642.20/1,000		
LMV981BLCT-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown	6-microSMD	1.53	1.13	.82
LMV981BLTR-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown	6-microSMD	153.38/250		
LMV981MFCT-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown*	SOT-23-6	1.53	1.13	.82
LMV981MFTR-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown	SOT-23-6	531.70/1,000		
LMV981MGCT-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown*	SC70-6	1.53	1.13	.82
LMV981MGTR-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown*	SC70-6	531.70/1,000		
LMV981TLCT-ND	Single 1.8V R/R, In/Out, Op Amp with Shutdown*	6-microSMD	1.53	1.13	.82
LMV981TLTR-ND	Single 1.8V R/R, In/Out, Op Amp with Shutdown*	6-microSMD	153.38/250		
LMV982MMCT-ND	Dual, 1.8V, Rail-to-Rail In/Out Op Amp with Shutdown	10-MSOP	1.78	1.31	.95
LMV982MMTR-ND	Dual, 1.8V, Rail-to-Rail In/Out Op Amp with Shutdown	10-MSOP	617.50/1,000		
LMV1012TP-07CT-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	1.43	1.05	.76
LMV1012TP-07TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	142.50/250		
LMV1012TP-15CT-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	1.46	1.08	.78
LMV1012TP-15TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	146.25/250		
LMV1012TP-25CT-ND	Analog Pre-Amp for High Gain Microphone*	4-microSMD	1.46	1.08	.78
LMV1012TP-25TR-ND	Analog Pre-Amp for High Gain Microphone*	4-microSMD	146.25/250		
LMV1012UP-07CT-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	1.43	1.05	.76
LMV1012UP-07TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	142.50/250		
LMV1012UP-15CT-ND	Analog Pre-Amp for High Gain Microphone*	4-microSMD	1.43	1.05	.76
LMV1012UP-15TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	142.50/250		
LMV1012UP-20CT-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	1.43	1.05	.76
LMV1012UP-20TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	142.50/250		
LMV1012UP-25CT-ND	Analog Pre-Amp for High Gain Microphone*	4-MSOP	1.43	1.05	.76
LMV1012UP-25TR-ND	Analog Pre-Amp for High Gain Microphone	4-MSOP	142.50/250		
LMV1012UPX-07CT-ND	7.8dB, High Gain 2-Wire Microphone Pre-Amp*	4-microSMD	1.43	1.05	.76
LMV1012UPX-07TR-ND	7.8dB, High Gain 2-Wire Microphone Pre-Amp*	4-microSMD	1453.50/3,000		
LMV1012XP-15CT-ND	Analog Pre-Amp for High Gain Microphone*	4-microSMD	1.76	1.30	.94
LMV1012XP-15TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	176.25/250		
LMV1012XP-25CT-ND	Analog Pre-Amp for High Gain Microphone*	4-microSMD	1.84	1.35	.98
LMV1012XP-25TR-ND	Analog Pre-Amp for High Gain Microphone*	4-microSMD	183.75/250		
LMV1015UR-15CT-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD	1.28	.94	.68
LMV1015UR-15TR-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD	127.50/250		
LMV1015UR-25CT-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD	1.39	1.02	.74
LMV1015UR-25TR-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD	138.75/250		
LMV1015XR-15CT-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone*	4-microSMD	1.54	1.13	.82
LMV1015XR-15TR-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone*	4-microSMD	153.75/250		
LMV1015XR-25CT-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD	1.58	1.16	.84
LMV1015XR-25TR-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD	157.50/250		
LMV1024URCT-ND	PDM Output, Pre-Amp for Electret Microphone*	6-microSMD	2.39	1.78	1.31

*** RoHS Compliant**

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LMV1024URTR-ND	PDM Output, Pre-Amp for Electret Microphone*	6-microSMD	259.88/250		
LMV1026URCT-ND	PDM Output, Pre-Amp for Electret Microphone*	6-microSMD	2.39	1.78	1.31
LMV1026URTR-ND	PDM Output, Pre-Amp for Electret Microphone*	6-microSMD	259.88/250		
LMV1031UR-20CT-ND	Amplifier for Internal 3-Wire Analog Microphone, External Pre-Amp*	4-microSMD	1.69	1.24	.90
LMV1031UR-20TR-ND	Amplifier for Internal 3-Wire Analog Microphone, External Pre-Amp*	4-microSMD	168.75/250		
LMV1032UP-06CT-ND	Amp for 3-Wire Analog Electret Microphone	4-MSOP	1.76	1.30	.94
LMV1032UP-06TR-ND	Amp for 3-Wire Analog Electret Microphone	4-MSOP	176.25/250		
LMV1032UP-15CT-ND	Amp for 3-Wire Analog Electret Microphone	4-MSOP	1.76	1.30	.94
LMV1032UP-15TR-ND	Amp for 3-Wire Analog Electret Microphone	4-MSOP	176.25/250		
LMV1032UP-25CT-ND	Amp for 3-Wire Analog Electret Microphone	4-MSOP	1.76	1.30	.94
LMV1032UP-25TR-ND	Amp for 3-Wire Analog Electret Microphone	4-MSOP	176.25/250		
LMV1032UPX-06CT-ND	Amp for 3-Wire Analog Electret Microphone*	4-microSMD	1.76	1.30	.94
LMV1032UPX-06TR-ND	Amp for 3-Wire Analog Electret Microphone*	4-microSMD	1797.75/3,000		
LMV1032UR-15CT-ND	Amp for 3-Wire Analog Electret Microphone*	4-microSMD	1.64	1.21	.88
LMV1032UR-15TR-ND	Amp for 3-Wire Analog Electret Microphone*	4-microSMD	163.88/250		
LMV1032UR-25CT-ND	Amp for 3-Wire Analog Electret Microphone*	4-microSMD	1.71	1.26	.92
LMV1032UR-25TR-ND	Amp for 3-Wire Analog Electret Microphone*	4-microSMD	171.00/250		
LMV1088RLCT-ND	Dual Input, Far Field Noise Suppression Microphone Amp* ***NEW!***	36-microSMD	16.54	14.18	12.57
LMV1088RLTR-ND	Dual Input, Far Field Noise Suppression Microphone Amp* ***NEW!***	36-microSMD	3000.38/250		
LMV2011MA-ND	High Precision, Rail-to-Rail Output Op Amp*	8-SOIC	2.51	1.87	1.38
LMV2011MFCT-ND	High Precision, Rail-to-Rail Output Op Amp*	SOT-23-5	2.51	1.87	1.38
LMV2011MFTR-ND	High Precision, Rail-to-Rail Output Op Amp*	SOT-23-5	1036.80/1,000		
LMV7219M5CT-ND	7nS, 2.7V to 5V Comparator with Rail-to-Rail, Output*	SOT-23-5	2.79	2.07	1.53
LMV7219M5TR-ND	7nS, 2.7V to 5V Comparator with Rail-to-Rail, Output*	SOT-23-5	1152.00/1,000		
LMV7219M7CT-ND	7nS, 2.7V to 5V Comparator with Rail-to-Rail, Output*	SC70-5	2.79	2.07	1.53
LMV7219M7TR-ND	7nS, 2.7V to 5V Comparator with Rail-to-Rail, Output*	SC70-5	1152.00/1,000		
LMV7235M5CT-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push-Pull Ouput*	SOT-23-5	1.74	1.29	.96
LMV7235M5TR-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push-Pull Ouput*	SOT-23-5	716.80/1,000		
LMV7235M7CT-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push-Pull Ouput*	SC70-5	1.74	1.29	.96
LMV7235M7TR-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push-Pull Ouput*	SC70-5	716.80/1,000		
LMV7239M5CT-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push-Pull Output*	SOT-23-5	1.74	1.29	.96
LMV7239M5TR-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push-Pull Output*	SOT-23-5	716.80/1,000		
LMV7239M7CT-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push-Pull Ouput*	SC70-5	1.74	1.29	.96
LMV7239M7TR-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push-Pull Ouput*	SC70-5	716.80/1,000		
LMV7271MFCT-ND	Single, 1.8V Low Power Comparator with R/R Input*	SOT-23-5	1.43	1.05	.76
LMV7271MFTR-ND	Single, 1.8V Low Power Comparator with R/R Input*	SOT-23-5	494.00/1,000		
LMV7271MGCT-ND	Single, 1.8V Low Power Comparator with R/R Input*	SC70-5	1.43	1.05	.76
LMV7271MGTR-ND	Single, 1.8V Low Power Comparator with R/R Input*	SC70-5	494.00/1,000		
LMV7272TLCT-ND	Dual, 1.8V Low Power Comparator with R/R Input*	microSMD	1.65	1.23	.91
LMV7272TLTR-ND	Dual, 1.8V Low Power Comparator with R/R Input*	microSMD	179.55/250		
LMV7275MFCT-ND	1.8V Low Power Comparator with Rail-to-Rail Input*	SOT-23-5	1.43	1.05	.76
LMV7275MFTR-ND	1.8V Low Power Comparator with Rail-to-Rail Input*	SOT-23-5	494.00/1,000		
LMV7275MGCT-ND	1.8V Low Power Comparator with Rail-to-Rail Input*	SC70-5	1.43	1.05	.76
LMV7275MGTR-ND	1.8V Low Power Comparator with Rail-to-Rail Input*	SC70-5	494.00/1,000		
LMV7291MGCT-ND	1.8V Low Power Comparator with Rail-to-Rail Input*	SC70-5	1.39	1.03	.75
LMV7291MGTR-ND	1.8V Low Power Comparator with Rail-to-Rail Input*	SC70-5	482.30/1,000		
LP324M-ND	Micropower Quad Op Amp*	14-SOIC	1.10	.81	.59
LP324MT-ND	Micropower Quad Op Amp*	14-TSSOP	1.42	1.04	.76
LP324MXCT-ND	Micropower Quad Op Amp*	14-SOIC	.94	.69	.50
LP324MXTR-ND	Micropower Quad Op Amp*	14-SOIC	937.13/2,500		
LP324N-ND	Micropower Quad Op Amp*	14-Dip	1.28	.94	.69
LP339M-ND	Ultra-Low Power Quad Comparator*	14-SOIC	.99	.73	.53
LP339MXCT-ND	Ultra-Low Power Quad Comparator	14-SOIC	.99	.73	.53
LP339MXTR-ND	Ultra-Low Power Quad Comparator	14-SOIC	841.50/2,500		
LP339NNS-ND	Ultra-Low Power Quad Comparator*	14-Dip	1.15	.85	.62
LP395Z-ND	Ultra Reliable Power Transistor*	TO-92	1.55	1.15	.85
LP2902M-ND	Micropower Quad Operational Amplifier*	14-SOIC	1.66	1.22	.89
LP2902MXCT-ND	Micropower Quad Operational Amplifier*	14-SOIC	1.66	1.22	.89
LP2902MXTR-ND	Micropower Quad Operational Amplifier*	14-SOIC	1408.88/2,500		
LP2902N-ND	Micropower Quad Operational Amplifier	14-Dip	1.84	1.35	.98
LP2950ACZ-3.0-ND	3V, Series Adjustable Micropower Voltage Regulator*	TO-92	1.05	.78	.57
LP2950ACZ-3.3-ND	3.3V, Series Adjustable Micropower Voltage Regulator*	TO-92	1.05	.78	.57
LP2950ACZ-5.0NS-ND	5V, Micropower Voltage Regulator*	TO-92	1.05	.78	.57
LP2950CDT-3.3-ND	3.3V, Micropower Voltage Regulator*	TO-252	1.34	.99	.72
LP2950CDT-5.0NS-ND	5V, Micropower Voltage Regulator*	D-Pak	1.34	.99	.72
LP2950CZ-3.0-ND	3V, Series Adjustable Micropower Voltage Regulator*	TO-92	1.04	.75	.55
LP2950CZ-3.3-ND	3.3V, Adjustable Micropower Voltage Regulator*	TO-92	1.04	.75	.55
LP2950CZ-5.0NS-ND	5V, Micropower Voltage Regulator*	TO-92	1.04	.75	.55
LP2951ACM-ND	1.24-29V, Adjustable Voltage Regulator*	8-SOIC	1.02	.75	.55
LP2951ACMXCT-ND	1.24-29V, Adjustable Voltage Regulator*	8-SOIC	1.02	.75	.55
LP2951ACMXTR-ND	1.24-29V, Adjustable Voltage Regulator*	8-SOIC	867.00/2,500		
LP2951ACM-3.0-ND	3V, Series Adjustable Micropower Voltage Regulator*	8-SOIC	1.02	.75	.55
LP2951ACM-3.3-ND	3.3V, Series Adjustable Micropower Voltage Regulator*	8-SOIC	1.02	.75	.55
LP2951ACMM-3.0CT-ND	3V, Series Adjustable Micropower Voltage Regulator*	8-MSOP	1.13	.84	.61
LP2951ACMM-3.0TR-ND	3V, Series Adjustable Micropower Voltage Regulator*	8-MSOP	392.60/1,000		
LP2951ACMM-3.3CT-ND	3.3V, Series Adjustable Micropower Voltage Regulator*	8-MSOP	1.13	.84	.61
LP2951ACMM-3.3TR-ND	3.3V, Series Adjustable Micropower Voltage Regulator*	8-MSOP	392.60/1,000		
LP2951ACMMCT-ND	Series Adjustable Micropower Voltage Regulator*	8-MSOP	1.13	.84	.61
LP2951ACMMTR-ND	Series Adjustable Micropower Voltage Regulator*	8-MSOP	392.60/1,000		
LP2951ACN-ND	1.24-29V, Adjustable Micropower Voltage Regulator*	8-Dip	1.56	1.15	.84
LP2951ACN-3.3-ND	3.3V, Series Adjustable Micropower Voltage Regulator*	8-Dip	1.56	1.15	.84
LP2951CM-ND	1.24-29V, Adjustable Micropower Voltage Regulator*	8-SOIC	1.04	.75	.55
LP2951CMXCT-ND	1.24-29V, Adjustable Micropower Voltage Regulator*	8-SOIC	1.04	.75	.55
LP2951CMXTR-ND	1.24-29V, Adjustable Micropower Voltage Regulator*	8-SOIC	764.75/2,500		
LP2951CM-3.0-ND	3V, Series Adjustable Micropower Voltage Regulator*	8-SOIC	1.04	.75	.55
LP2951CM-3.3-ND	3.3V, Series Adjustable Micropower Voltage Regulator*	8-SOIC	1.04	.75	.55
LP2951CMM-3.0CT-ND	3V, Series Adjustable Micropower Voltage Regulator	8-MSOP	.97	.72	.52
LP2951CMM-3.0TR-ND	3V, Series Adjustable Micropower Voltage Regulator	8-MSOP	336.70/1,000		
LP2951CMM-3.3CT-ND	3.3V, Series Adjustable Micropower Voltage Regulator*	8-MSOP	.97	.72	.52
LP2951CMM-3.3TR-ND	3.3V, Series Adjustable Micropower Voltage Regulator*	8-MSOP	336.70/1,000		
LP2951CMMCT-ND	Series Adjustable Micropower Voltage Regulator*	8-MSOP	.97	.72	.52
LP2951CMMTR-ND	Series Adjustable Micropower Voltage Regulator*	8-MSOP	336.70/1,000		

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP2951CN-ND	Adjustable Micropower Voltage Regulator*	8-Dip	1.56	1.15	.84
LP2951CN-3.0-ND	3V, Series Adjustable Micropower Voltage Regulator	8-Dip	1.56	1.15	.84
LP2951CN-3.3-ND	3.3V, Series Adjustable Micropower Voltage Regulator*	8-Dip	1.56	1.15	.84
LP2952AIM-3.3-ND	3.3V, Adjustable LDO Voltage Regulator	16-SOIC	3.80	2.89	2.21
LP2952AIM-ND	Adjustable LDO Voltage Regulator*	16-SOIC	3.80	2.89	2.21
LP2952AIN-3.3-ND	3.3V, Adjustable LDO Voltage Regulator	14-Dip	3.80	2.89	2.21
LP2952IM-ND	250mA Low Power Adjustable Voltage Regulator	16-SOIC	2.48	1.84	1.36
LP2952IM-3.3-ND	3.3V, Adjustable LDO Voltage Regulator*	16-SOIC	2.48	1.84	1.36
LP2952IN-3.3-ND	3.3V, Adjustable LDO Voltage Regulator	14-Dip	2.48	1.84	1.36
LP2953AIM-ND	250mA Low Power Adj. Voltage Reg. (Elect. Improved)*	16-SOIC	4.58	3.48	2.66
LP2953IM-ND	250mA Low Power Adjustable Voltage Regulator*	16-SOIC	2.53	1.92	1.47
LP2953IN-ND	250mA Low Power Adjustable Voltage Regulator	16-Dip	2.53	1.92	1.47
LP2954AIS-ND	Adj. Micropower Low Dropout Voltage Regulator*	TO-263	4.58	3.48	2.66
LP2954AIT-ND	5.0V, Micropower Low Dropout Voltage Regulator*	TO-220	4.58	3.48	2.66
LP2954IS-ND	5.0V, Micropower Low Dropout Voltage Regulator*	TO-263	2.68	2.04	1.56
LP2954IT-ND	5.0V, Micropower Low Dropout Voltage Regulator*	TO-220	2.68	2.04	1.56
LP2956AIM-ND	Dual Micropower LDO Voltage Regulator*	16-SOIC	4.68	3.56	2.72
LP2956AIN-ND	Dual Micropower LDO Voltage Regulator	16-Dip	4.68	3.56	2.72
LP2956IM-ND	Dual Micropower LDO Voltage Regulator*	16-SOIC	3.45	2.63	2.01
LP2957AIS-ND	5.0V, LDO Regulator for Micropower Application*	TO-263-5	4.25	3.23	2.47
LP2957AIT-ND	5.0V, LDO Regulator for Micropower Application*	TO-220-5	4.25	3.23	2.47
LP2957IS-ND	5.0V, LDO Regulator for Micropower Application*	TO-263-5	3.28	2.49	1.90
LP2960IM-3.3-ND	3.3V, .5A Micropower LDO Regulator*	16-SOIC	2.50	1.90	1.45
LP2960IM-5.0-ND	5.0V, .5A Micropower LDO Regulator, 160ppm*	16-SOIC	2.50	1.90	1.45
LP2966IMM-1818CT-ND	Dual 150mA Ultra LDO Regulator, 1.8V/1.8V	8-MSOP	2.33	1.73	1.28
LP2966IMM-1818TR-ND	Dual 150mA Ultra LDO Regulator, 1.8V/1.8V	8-MSOP	961.28/1,000		
LP2966IMM-1828CT-ND	Dual 150mA Ultra LDO Regulator, 1.8V/2.8V	8-MSOP	2.33	1.73	1.28
LP2966IMM-1828TR-ND	Dual 150mA Ultra LDO Regulator, 1.8V/2.8V	8-MSOP	961.28/1,000		
LP2966IMM-1830CT-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3V	8-MSOP	2.33	1.73	1.28
LP2966IMM-1830TR-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3V	8-MSOP	961.28/1,000		
LP2966IMM-1833CT-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3.3V*	8-MSOP	2.33	1.73	1.28
LP2966IMM-1833TR-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3.3V*	8-MSOP	961.28/1,000		
LP2966IMM-2518CT-ND	Dual 150mA Ultra LDO Regulator, 2.5V/1.8V	8-MSOP	2.33	1.73	1.28
LP2966IMM-2518TR-ND	Dual 150mA Ultra LDO Regulator, 2.5V/1.8V	8-MSOP	961.28/1,000		
LP2966IMM-2525CT-ND	Dual 150mA Ultra LDO Regulator, 2.5V/2.5V	8-MSOP	2.33	1.73	1.28
LP2966IMM-2525TR-ND	Dual 150mA Ultra LDO Regulator, 2.5V/2.5V	8-MSOP	961.28/1,000		
LP2966IMM-2828CT-ND	Dual 150mA Ultra LDO Regulator, 2.8V/2.8V	8-MSOP	2.33	1.73	1.28
LP2966IMM-2828TR-ND	Dual 150mA Ultra LDO Regulator, 2.8V/2.8V	8-MSOP	961.28/1,000		
LP2966IMM-2830CT-ND	Dual 150mA Ultra LDO Regulator, 2.8V/3V	8-MSOP	2.33	1.73	1.28
LP2966IMM-2830TR-ND	Dual 150mA Ultra LDO Regulator, 2.8V/3V	8-MSOP	961.28/1,000		
LP2966IMM-3030CT-ND	Dual 150mA Ultra LDO Regulator, 3V/3V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3030TR-ND	Dual 150mA Ultra LDO Regulator, 3V/3V	8-MSOP	961.28/1,000		
LP2966IMM-3325CT-ND	Dual 150mA Ultra LDO Regulator, 3.3V/2.5V*	8-MSOP	2.33	1.73	1.28
LP2966IMM-3325TR-ND	Dual 150mA Ultra LDO Regulator, 3.3V/2.5V*	8-MSOP	961.28/1,000		
LP2966IMM-3333CT-ND	Dual 150mA Ultra LDO Regulator, 3.3V/3.3V*	8-MSOP	2.33	1.73	1.28
LP2966IMM-3333TR-ND	Dual 150mA Ultra LDO Regulator, 3.3V/3.3V*	8-MSOP	961.28/1,000		
LP2966IMM-3336CT-ND	Dual 150mA Ultra LDO Regulator, 3.3V/3.6V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3336TR-ND	Dual 150mA Ultra LDO Regulator, 3.3V/3.6V	8-MSOP	961.28/1,000		
LP2966IMM-3636CT-ND	Dual 150mA Ultra LDO Regulator, 3.6V/3.6V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3636TR-ND	Dual 150mA Ultra LDO Regulator, 3.6V/3.6V	8-MSOP	961.28/1,000		
LP2966IMM-5050CT-ND	Dual 150mA Ultra LDO Regulator, 5V/5V	8-MSOP	2.33	1.73	1.28
LP2966IMM-5050TR-ND	Dual 150mA Ultra LDO Regulator, 5V/5V	8-MSOP	961.28/1,000		
LP2967IBP-1825CT-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	3.10	2.36	1.80
LP2967IBP-1825TR-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	412.30/250		
LP2967IBP-1833CT-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	3.10	2.36	1.80
LP2967IBP-1833TR-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	412.30/250		
LP2967IBP-2833CT-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	3.10	2.36	1.80
LP2967IBP-2833TR-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	412.30/250		
LP2967IMM-2828CT-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	2.98	2.21	1.64
LP2967IMM-2828TR-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	1228.80/1,000		
LP2967IMM-2833CT-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	2.98	2.21	1.64
LP2967IMM-2833TR-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	1228.80/1,000		
LP2967ITP-1825CT-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	3.10	2.36	1.80
LP2967ITP-1825TR-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	412.30/250		
LP2967ITP-1833CT-ND	Dual Micropower 150mA LDO Regulator*	8-microSMD	3.10	2.36	1.80
LP2967ITP-1833TR-ND	Dual Micropower 150mA LDO Regulator*	8-microSMD	412.30/250		
LP2967ITP-2830CT-ND	Dual Micropower 150mA LDO Regulator*	8-microSMD	3.10	2.36	1.80
LP2967ITP-2830TR-ND	Dual Micropower 150mA LDO Regulator*	8-microSMD	412.30/250		
LP2967ITP-2833CT-ND	Dual Micropower 150mA LDO Regulator*	8-microSMD	3.10	2.36	1.80
LP2967ITP-2833TR-ND	Dual Micropower 150mA LDO Regulator*	8-microSMD	412.30/250		
LP2975AIMM-3.3CT-ND	3.3V, MOSFET LDO Driver/Controller*	8-MSOP	2.20	1.64	1.21
LP2975AIMM-3.3TR-ND	3.3V, MOSFET LDO Driver/Controller*	8-MSOP	908.80/1,000		
LP2975AIMM-5.0CT-ND	5V, MOSFET LDO Driver/Controller	8-MSOP	2.20	1.64	1.21
LP2975AIMM-5.0TR-ND	5V, MOSFET LDO Driver/Controller	8-MSOP	908.80/1,000		
LP2975IMM-3.3CT-ND	3.3V, MOSFET LDO Driver/Controller	8-MSOP	1.98	1.48	1.09
LP2975IMM-3.3TR-ND	3.3V, MOSFET LDO Driver/Controller	8-MSOP	819.20/1,000		
LP2975IMM-5.0CT-ND	5V, MOSFET LDO Driver/Controller*	8-MSOP	1.98	1.48	1.09
LP2975IMM-5.0TR-ND	5V, MOSFET LDO Driver/Controller*	8-MSOP	819.20/1,000		
LP2980AIM5-2.5CT-ND	2.5V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	.84	.61	.44
LP2980AIM5-2.5TR-ND	2.5V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	261.80/1,000		
LP2980AIM5-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	.84	.61	.44
LP2980AIM5-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	261.80/1,000		
LP2980AIM5-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	.84	.61	.44
LP2980AIM5-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	261.80/1,000		
LP2980AIM5-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	.84	.61	.44
LP2980AIM5-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	261.80/1,000		
LP2980IM5-ADJCT-ND	Adj., Micropower 50mA Ultra LDO Regulator*	SOT-23-5	.84	.61	.44
LP2980IM5-ADJTR-ND	Adj., Micropower 50mA Ultra LDO Regulator*	SOT-23-5	261.80/1,000		
LP2980IM5-2.5CT-ND	2.5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	.84	.61	.44
LP2980IM5-2.5TR-ND	2.5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	261.80/1,000		
LP2980IM5-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator*	SOT-23-5	.84	.61	.44
LP2980IM5-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator*	SOT-23-5	261.80/1,000		
LP2980IM5-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator*	SOT-23-5	.84	.61	.44
LP2980IM5-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator*	SOT-23-5	261.80/1,000		
LP2980IM5-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator*	SOT-23-5	.84	.61	.44
LP2980IM5-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator*	SOT-23-5	261.80/1,000		
LP2981AIM5-2.5CT-ND	2.5V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-2.5TR-ND	2.5V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-2.7CT-ND	2.7V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-2.7TR-ND	2.7V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-2.8CT-ND	2.8V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-2.8TR-ND	2.8V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-3.0CT-ND	3V, Micropower 100mA Ultra LDO Reg., A Grade*	SOT-23-5	1.13	.83	.60
LP2981AIM5-3.0TR-ND	3V, Micropower 100mA Ultra LDO Reg., A Grade*	SOT-23-5	390.00/1,000		
LP2981AIM5-3.2CT-ND	3.2V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60

**** RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP2981AIM5-3.2TR-ND	3.2V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-3.3CT-ND	3.3V, Micropower 100mA Ultra LDO Reg., A Grade*	SOT-23-5	1.13	.83	.60
LP2981AIM5-3.3TR-ND	3.3V, Micropower 100mA Ultra LDO Reg., A Grade*	SOT-23-5	390.00/1,000		
LP2981AIM5-3.6CT-ND	3.6V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-3.6TR-ND	3.6V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-3.8CT-ND	3.8V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-3.8TR-ND	3.8V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-5.0CT-ND	5V, Micropower 100mA Ultra LDO Reg., A Grade*	SOT-23-5	1.13	.83	.60
LP2981AIM5-5.0TR-ND	5V, Micropower 100mA Ultra LDO Reg., A Grade*	SOT-23-5	390.00/1,000		
LP2981IM5-2.5CT-ND	2.5V, Micropower 100mA Ultra LDO Regulator*	SOT-23-5	1.09	.80	.58
LP2981IM5-2.5TR-ND	2.5V, Micropower 100mA Ultra LDO Regulator*	SOT-23-5	377.00/1,000		
LP2981IM5-2.7CT-ND	2.7V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-2.7TR-ND	2.7V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	377.00/1,000		
LP2981IM5-2.8CT-ND	2.8V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-2.8TR-ND	2.8V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	377.00/1,000		
LP2981IM5-3.0CT-ND	3V, Micropower 100mA Ultra LDO Regulator*	SOT-23-5	1.09	.80	.58
LP2981IM5-3.0TR-ND	3V, Micropower 100mA Ultra LDO Regulator*	SOT-23-5	377.00/1,000		
LP2981IM5-3.6CT-ND	3.6V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-3.6TR-ND	3.6V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	377.00/1,000		
LP2981IM5-3.8CT-ND	3.8V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-3.8TR-ND	3.8V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	377.00/1,000		
LP2981IM5-5.0CT-ND	5V, Micropower 100mA Ultra LDO Regulator*	SOT-23-5	1.09	.80	.58
LP2981IM5-5.0TR-ND	5V, Micropower 100mA Ultra LDO Regulator*	SOT-23-5	377.00/1,000		
LP2982AIM5-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	1.13	.83	.60
LP2982AIM5-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	390.00/1,000		
LP2982AIM5-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	1.13	.83	.60
LP2982AIM5-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	390.00/1,000		
LP2982AIM5-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	1.13	.83	.60
LP2982AIM5-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator, A Grade*	SOT-23-5	390.00/1,000		
LP2982IM5-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2982IM5-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	377.00/1,000		
LP2982IM5-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator*	SOT-23-5	1.09	.80	.58
LP2982IM5-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator*	SOT-23-5	377.00/1,000		
LP2982IM5-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator*	SOT-23-5	1.09	.80	.58
LP2982IM5-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator*	SOT-23-5	377.00/1,000		
LP2983AIM5-1.0CT-ND	1.0V, Micropower 150mA Voltage Regulator*	SOT-23-5	1.61	1.19	.86
LP2983AIM5-1.0TR-ND	1.0V, Micropower 150mA Voltage Regulator*	SOT-23-5	559.00/1,000		
LP2983AIM5-1.2CT-ND	1.2V, Micropower 150mA Voltage Regulator*	SOT-23-5	1.61	1.19	.86
LP2983AIM5-1.2TR-ND	1.2V, Micropower 150mA Voltage Regulator*	SOT-23-5	559.00/1,000		
LP2983IM5-1.0CT-ND	1V, Micropower 150mA Voltage Regulator	SOT-23-5	1.58	1.16	.84
LP2983IM5-1.0TR-ND	1V, Micropower 150mA Voltage Regulator	SOT-23-5	546.00/1,000		
LP2983IM5-1.2CT-ND	1.2V, Micropower 150mA Voltage Regulator*	SOT-23-5	1.58	1.16	.84
LP2983IM5-1.2TR-ND	1.2V, Micropower 150mA Voltage Regulator*	SOT-23-5	546.00/1,000		
LP2985AIBP-2.8CT-ND	2.8V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-2.8TR-ND	2.8V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	97.75/250		
LP2985AIBP-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade	5-microSMD	97.75/250		
LP2985AIBP-3.3CT-ND	3.3V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-3.3TR-ND	3.3V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	97.75/250		
LP2985AIBP-4.0CT-ND	4V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-4.0TR-ND	4V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	97.75/250		
LP2985AIBP-5.0CT-ND	5V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-5.0TR-ND	5V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	97.75/250		
LP2985AIM5-1.5CT-ND	1.5V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	1.04	.75	.55
LP2985AIM5-1.5TR-ND	1.5V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	322.00/1,000		
LP2985AIM5-1.8CT-ND	1.8V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	1.04	.75	.55
LP2985AIM5-1.8TR-ND	1.8V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	322.00/1,000		
LP2985AIM5-2.0CT-ND	2V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	1.04	.75	.55
LP2985AIM5-2.0TR-ND	2V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	322.00/1,000		
LP2985AIM5-2.5CT-ND	2.5V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	1.04	.75	.55
LP2985AIM5-2.5TR-ND	2.5V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	322.00/1,000		
LP2985AIM5-2.6CT-ND	2.6V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-2.6TR-ND	2.6V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	322.00/1,000		
LP2985AIM5-2.7CT-ND	2.7V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-2.7TR-ND	2.7V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	322.00/1,000		
LP2985AIM5-2.8CT-ND	2.8V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-2.8TR-ND	2.8V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	322.00/1,000		
LP2985AIM5-2.9CT-ND	2.9V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-2.9TR-ND	2.9V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	322.00/1,000		
LP2985AIM5-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	322.00/1,000		
LP2985AIM5-3.1CT-ND	3.1V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.1TR-ND	3.1V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	322.00/1,000		
LP2985AIM5-3.2CT-ND	3.2V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.2TR-ND	3.2V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	322.00/1,000		
LP2985AIM5-3.3CT-ND	3.3V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.3TR-ND	3.3V, Micropower 150mA LN Ultra LDO Reg., A Grade.*	SOT-23-5	322.00/1,000		
LP2985AIM5-3.5CT-ND	3.5V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.5TR-ND	3.5V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	322.00/1,000		
LP2985AIM5-3.6CT-ND	3.6V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.6TR-ND	3.6V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	322.00/1,000		
LP2985AIM5-3.8CT-ND	3.8V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.8TR-ND	3.8V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	322.00/1,000		
LP2985AIM5-4.0CT-ND	4.0V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	1.04	.75	.55
LP2985AIM5-4.0TR-ND	4.0V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	322.00/1,000		
LP2985AIM5-4.5CT-ND	4.5V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	1.04	.75	.55
LP2985AIM5-4.5TR-ND	4.5V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	322.00/1,000		
LP2985AIM5-5.0CT-ND	5V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	1.04	.75	.55
LP2985AIM5-5.0TR-ND	5V, Micropower 150mA LN Ultra LDO Reg., A Grade*	SOT-23-5	322.00/1,000		
LP2985AIM5-6.1CT-ND	6.1V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-6.1TR-ND	6.1V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	322.00/1,000		
LP2985AITP-2.7CT-ND	2.7V, Micropower 150mA LN Ultra LDO Reg., A Grade	microSMD	1.04	.75	.55
LP2985AITP-2.7TR-ND	2.7V, Micropower 150mA LN Ultra LDO Reg., A Grade	microSMD	97.75/250		
LP2985AITP-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade*	5-microSMD	1.04	.75	.55
LP2985AITP-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade*	5-microSMD	97.75/250		
LP2985IBP-1.8CT-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-1.8TR-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	93.50/250		
LP2985IBP-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	93.50/250		
LP2985IBP-4.0CT-ND	4V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-4.0TR-ND	4V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	93.50/250		
LP2985IBP-5.0CT-ND	5V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-5.0TR-ND	5V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	93.50/250		
LP2985IM5-1.5CT-ND	1.5V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	.99	.72	.52
LP2985IM5-1.5TR-ND	1.5V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	308.00/1,000		

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP2985IM5-1.8CT-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	.99	.72	.52
LP2985IM5-1.8TR-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	308.00/1,000		
LP2985IM5-2.0CT-ND	2.0V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-2.0TR-ND	2.0V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-2.5CT-ND	2.5V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	.99	.72	.52
LP2985IM5-2.5TR-ND	2.5V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	308.00/1,000		
LP2985IM5-2.6CT-ND	2.6V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-2.6TR-ND	2.6V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-2.7CT-ND	2.7V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-2.7TR-ND	2.7V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-2.8CT-ND	2.8V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	.99	.72	.52
LP2985IM5-2.8TR-ND	2.8V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	308.00/1,000		
LP2985IM5-2.9CT-ND	2.9V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-2.9TR-ND	2.9V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	.99	.72	.52
LP2985IM5-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	308.00/1,000		
LP2985IM5-3.1CT-ND	3.1V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-3.1TR-ND	3.1V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-3.2CT-ND	3.2V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-3.2TR-ND	3.2V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-3.3CT-ND	3.3V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	.99	.72	.52
LP2985IM5-3.3TR-ND	3.3V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	308.00/1,000		
LP2985IM5-3.5CT-ND	3.5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-3.5TR-ND	3.5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-3.6CT-ND	3.6V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	.99	.72	.52
LP2985IM5-3.6TR-ND	3.6V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	308.00/1,000		
LP2985IM5-3.8CT-ND	3.8V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-3.8TR-ND	3.8V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-4.0CT-ND	4V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	.99	.72	.52
LP2985IM5-4.0TR-ND	4V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-4.5CT-ND	4.5V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	.99	.72	.52
LP2985IM5-4.5TR-ND	4.5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-5.0CT-ND	5V, Micropower 150mA LN Ultra LDO Regulator*	SOT-23-5	.99	.72	.52
LP2985IM5-5.0TR-ND	5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-6.1CT-ND	6.1V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-6.1TR-ND	6.1V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985ITP-1.8CT-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator	microSMD	.99	.72	.52
LP2985ITP-1.8TR-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator	microSMD	93.50/250		
LP2985ITP-2.7CT-ND	2.7V, Micropower 150mA LN Ultra LDO Regulator	microSMD	.99	.72	.52
LP2985ITP-2.7TR-ND	2.7V, Micropower 150mA LN Ultra LDO Regulator	microSMD	93.50/250		
LP2986AILD-3.3CT-ND	3.3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg	8-LLP	2.36	1.75	1.30
LP2986AILD-3.3TR-ND	3.3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg	8-LLP	972.80/1,000		
LP2986AIM-3.0-ND	3V, Micropower 200mA Ultra LDO Fixed or Adjustable Voltage Regulator .5%	8-SOIC	2.11	1.57	1.16
LP2986AIM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Fixed or Adjustable Voltage Regulator .5%*	8-SOIC	2.11	1.57	1.16
LP2986AIM-5.0-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%*	8-SOIC	2.11	1.57	1.16
LP2986AIMM-3.0CT-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%*	8-MSOP	2.33	1.73	1.28
LP2986AIMM-3.0TR-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%*	8-MSOP	960.00/1,000		
LP2986AIMM-3.3CT-ND	3.3V, Micropwr 200mA Ultra LDO Fix or Adj. V. Reg .5%	8-MSOP	2.33	1.73	1.28
LP2986AIMM-3.3TR-ND	3.3V, Micropwr 200mA Ultra LDO Fix or Adj. V. Reg .5%	8-MSOP	960.00/1,000		
LP2986AIMM-5.0CT-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-MSOP	2.33	1.73	1.28
LP2986AIMM-5.0TR-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-MSOP	960.00/1,000		
LP2986ILD-3.3CT-ND	3.3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	2.23	1.66	1.23
LP2986ILD-3.3TR-ND	3.3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	921.60/1,000		
LP2986IM-3.0-ND	3V, Micropower 200mA Ultra LDO Regulator, 1%*	8-SOIC	1.98	1.48	1.09
LP2986IM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Regulator, 1%*	8-SOIC	1.98	1.48	1.09
LP2986IM-5.0-ND	5V, Micropower 200mA Ultra LDO Regulator, 1%	8-SOIC	1.98	1.48	1.09
LP2986IMM-3.0CT-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg, 1%	8-MSOP	2.20	1.64	1.21
LP2986IMM-3.0TR-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg, 1%	8-MSOP	908.80/1,000		
LP2986IMM-3.3CT-ND	3.3V, Micropwr 200mA Ultra LDO Fix or Adj. V. Reg, 1%*	8-MSOP	2.20	1.64	1.21
LP2986IMM-3.3TR-ND	3.3V, Micropwr 200mA Ultra LDO Fix or Adj. V. Reg, 1%*	8-MSOP	908.80/1,000		
LP2986IMM-5.0CT-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg, 1%*	8-MSOP	2.20	1.64	1.21
LP2986IMM-5.0TR-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg, 1%*	8-MSOP	908.80/1,000		
LP2987AIM-2.8-ND	2.8V, Micropower 200mA, Ultra LDO Voltage Regulator with Program Power-On Reset Delay, .5%	8-SOIC	2.11	1.57	1.16
LP2987AIM-3.0-ND	3V, Micropower 200mA Ultra LDO Voltage Regulator with Program Power-On Reset Delay, .5%	8-SOIC	2.11	1.57	1.16
LP2987AIM-3.2-ND	3.2V, Micropower 200mA, Ultra LDO Voltage Regulator with Program Power-On Reset Delay, .5%	8-SOIC	2.11	1.57	1.16
LP2987AIM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy*	8-SOIC	2.11	1.57	1.16
LP2987AIM-3.8-ND	3.8V, Micropower 200mA, Ultra LDO Voltage Regulator with Program Power-On Reset Delay, .5%	8-SOIC	2.11	1.57	1.16
LP2987AIM-5.0-ND	5V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.11	1.57	1.16
LP2987ILD-3.0CT-ND	3V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.23	1.66	1.23
LP2987ILD-3.0TR-ND	3V, Micropower 200mA LDO Voltage Regulator	8-LLP	921.60/1,000		
LP2987ILD-3.3CT-ND	3.3V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.23	1.66	1.23
LP2987ILD-3.3TR-ND	3.3V, Micropower 200mA LDO Voltage Regulator	8-LLP	921.60/1,000		
LP2987ILD-5.0CT-ND	5V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.23	1.66	1.23
LP2987ILD-5.0TR-ND	5V, Micropower 200mA LDO Voltage Regulator	8-LLP	921.60/1,000		
LP2987IM-2.8-ND	2.8V, Micropower 200mA, LDO Voltage Reg. 1% Accuracy	8-SOIC	1.98	1.48	1.09
LP2987IM-3.0-ND	3V, Micropower 200mA Ultra LDO Regulator, 1% Accuracy*	8-SOIC	1.98	1.48	1.09
LP2987IM-3.2-ND	3.2V, Micropower 200mA, Ultra LDO Reg., 1% Accuracy	8-SOIC	1.98	1.48	1.09
LP2987IM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	1.98	1.48	1.09
LP2987IM-3.8-ND	3.8V, Micropower 200mA, Ultra LDO Reg., 1% Accuracy	8-SOIC	1.98	1.48	1.09
LP2987IM-5.0-ND	5.0V, Micropower 200mA Ultra LDO Reg., 1% Accuracy*	8-SOIC	1.98	1.48	1.09
LP2987IMM-3.0CT-ND	3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.20	1.64	1.21
LP2987IMM-3.0TR-ND	3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	908.80/1,000		
LP2987IMM-5.0CT-ND	5.0V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.20	1.64	1.21
LP2987IMM-5.0TR-ND	5.0V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	908.80/1,000		
LP2988AILD-3.0CT-ND	3V, Micropower 200mA Ultra LDO Voltage Regulator	8-LLP	2.45	1.82	1.35
LP2988AILD-3.0TR-ND	3V, Micropower 200mA Ultra LDO Voltage Regulator	8-LLP	1011.20/1,000		
LP2988AIM-2.8-ND	2.8V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.20	1.64	1.21
LP2988AIM-3.0-ND	3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.20	1.64	1.21
LP2988AIM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy*	8-SOIC	2.20	1.64	1.21
LP2988AIM-3.8-ND	3.8V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.20	1.64	1.21
LP2988AIM-5.0-ND	5V, Micropower 200mA Ultra LDO Reg., .5% Accuracy*	8-SOIC	2.20	1.64	1.21
LP2988AIMM-3.0CT-ND	3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.36	1.75	1.30
LP2988AIMM-3.0TR-ND	3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	972.80/1,000		
LP2988IM-2.8-ND	2.8V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18

***** RoHS Compliant*

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP2988IM-3.0-ND	3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18
LP2988IM-3.2-ND	3.2V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18
LP2988IM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18
LP2988IM-3.8-ND	3.8V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18
LP2988IM-5.0-ND	5.0V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18
LP2988IMM-3.0CT-ND	3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.29	1.71	1.26
LP2988IMM-3.0TR-ND	3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	947.20/1,000		
LP2989AILD-1.8CT-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-1.8TR-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AILD-2.5CT-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-2.5TR-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AILD-2.8CT-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-2.8TR-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AILD-3.3CT-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-3.3TR-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AILD-3.6CT-ND	3.6V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-5.0CT-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts*	8-LLP	2.79	2.07	1.53
LP2989AILD-5.0TR-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts*	8-LLP	1152.00/1,000		
LP2989AIM-1.8-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts*	8-SOIC	2.54	1.89	1.40
LP2989AIM-2.5-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts*	8-SOIC	2.54	1.89	1.40
LP2989AIM-3.0-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts*	8-SOIC	2.54	1.89	1.40
LP2989AIM-3.3-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts*	8-SOIC	2.54	1.89	1.40
LP2989AIM-5.0-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts*	8-SOIC	2.54	1.89	1.40
LP2989AIMM-1.8CT-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.79	2.07	1.53
LP2989AIMM-1.8TR-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1152.00/1,000		
LP2989AIMM-2.5CT-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.79	2.07	1.53
LP2989AIMM-2.5TR-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1152.00/1,000		
LP2989AIMM-2.8CT-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.79	2.07	1.53
LP2989AIMM-2.8TR-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1152.00/1,000		
LP2989AIMM-3.0CT-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.79	2.07	1.53
LP2989AIMM-3.0TR-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1152.00/1,000		
LP2989AIMM-3.3CT-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.79	2.07	1.53
LP2989AIMM-3.3TR-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1152.00/1,000		
LP2989AIMM-5.0CT-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts*	8-MSOP	2.79	2.07	1.53
LP2989AIMM-5.0TR-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts*	8-MSOP	1152.00/1,000		
LP2989ILD-1.8CT-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.64	1.96	1.45
LP2989ILD-1.8TR-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1088.00/1,000		
LP2989ILD-2.5CT-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-2.5TR-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP2989ILD-2.8CT-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-2.8TR-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP2989ILD-3.0CT-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-3.0TR-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP2989ILD-3.3CT-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-3.3TR-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP2989ILD-5.0CT-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-5.0TR-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP3470M5-2.93CT-ND	2.93V, Tiny Power-On Reset Circuit*	SOT-23-5	1.73	1.27	.92
LP3470M5-2.93TR-ND	2.93V, Tiny Power-On Reset Circuit*	SOT-23-5	598.00/1,000		
LP3470M5-3.08CT-ND	3.08V, Tiny Power-On Reset Circuit	SOT-23-5	1.73	1.27	.92
LP3470M5-3.08TR-ND	3.08V, Tiny Power-On Reset Circuit	SOT-23-5	598.00/1,000		
LP3470M5-4.00CT-ND	5V, Voltage Monitor with Reset	SOT-23-5	1.73	1.27	.92
LP3470M5-4.00TR-ND	5V, Voltage Monitor with Reset	SOT-23-5	598.00/1,000		
LP3470M5-4.38CT-ND	4.38V, Tiny Power-On Reset Circuit	SOT-23-5	1.73	1.27	.92
LP3470M5-4.38TR-ND	4.38V, Tiny Power-On Reset Circuit	SOT-23-5	598.00/1,000		
LP3470M5-4.63CT-ND	4.63V, Tiny Power-On Reset Circuit*	SOT-23-5	1.73	1.27	.92
LP3470M5-4.63TR-ND	4.63V, Tiny Power-On Reset Circuit*	SOT-23-5	598.00/1,000		
LP3852EMP-1.8CT-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3852EMP-1.8TR-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3852EMP-2.5CT-ND	2.5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3852EMP-2.5TR-ND	2.5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3852EMP-3.3CT-ND	3.3V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3852EMP-3.3TR-ND	3.3V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3852EMP-5.0CT-ND	5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3852EMP-5.0TR-ND	5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3852ES-1.8-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator	TO-263-5	4.48	3.41	2.60
LP3852ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.48	3.41	2.60
LP3852ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.48	3.41	2.60
LP3852ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.48	3.41	2.60
LP3852ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.48	3.41	2.60
LP3852ET-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.48	3.41	2.60
LP3852ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.48	3.41	2.60
LP3852ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.48	3.41	2.60
LP3853ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.65	4.47	3.58
LP3853ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	5.65	4.47	3.58
LP3853ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	5.65	4.47	3.58
LP3853ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	5.65	4.47	3.58
LP3853ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	5.65	4.47	3.58
LP3853ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	5.65	4.47	3.58
LP3853ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	5.65	4.47	3.58
LP3853ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	5.65	4.47	3.58
LP3855EMP-1.8CT-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	4.15	3.16	2.41
LP3855EMP-1.8TR-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2091.60/1,000		
LP3855EMP-2.5CT-ND	2.5V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	4.15	3.16	2.41
LP3855EMP-2.5TR-ND	2.5V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2091.60/1,000		
LP3855EMP-3.3CT-ND	3.3V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	4.15	3.16	2.41
LP3855EMP-3.3TR-ND	3.3V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2091.60/1,000		
LP3855EMP-5.0CT-ND	5V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	4.15	3.16	2.41
LP3855EMP-5.0TR-ND	5V, 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2091.60/1,000		
LP3855EMP-ADJCT-ND	Adj., 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	4.15	3.16	2.41
LP3855EMP-ADJTR-ND	Adj., 1.5A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2091.60/1,000		
LP3855ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	4.48	3.41	2.60
LP3855ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.48	3.41	2.60
LP3855ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.48	3.41	2.60
LP3855ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.48	3.41	2.60
LP3855ES-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.48	3.41	2.60
LP3855ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.48	3.41	2.60
LP3855ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.48	3.41	2.60
LP3855ET-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.48	3.41	2.60
LP3856ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	5.65	4.47	3.58
LP3856ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	5.65	4.47	3.58
LP3856ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	5.65	4.47	3.58
LP3856ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	5.65	4.47	3.58
LP3856ES-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator*	TO-263-5	5.65	4.47	3.58
LP3856ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	5.65	4.47	3.58
LP3856ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	5.65	4.47	3.58
LP3871EMP-1.8CT-ND	1.8V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2.98	2.21	1.64
LP3871EMP-1.8TR-ND	1.8V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	1228.80/1,000		
LP3871EMP-2.5CT-ND	2.5V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2.98	2.21	1.64
LP3871EMP-2.5TR-ND	2.5V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	1228.80/1,000		
LP3871EMP-3.3CT-ND	3.3V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2.98	2.21	1.64
LP3871EMP-3.3TR-ND	3.3V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	1228.80/1,000		
LP3871EMP-5.0CT-ND	5V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	2.98	2.21	1.64
LP3871EMP-5.0TR-ND	5V, 0.8A, Fast Ultra LDO Linear Regulator*	SOT-223-5	1228.80/1,000		
LP3871ES-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	2.73	2.08	1.59
LP3871ES-2.5-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	2.73	2.08	1.59
LP3871ES-3.3-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	2.73	2.08	1.59
LP3871ES-5.0-ND	5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	2.73	2.08	1.59
LP3871ET-2.5-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-220-5	2.73	2.08	1.59
LP3871ET-3.3-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator*	TO-220-5	2.73	2.08	1.59
LP3871ET-5.0-ND	5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-220-5	2.73	2.08	1.59
LP3872EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.88	2.19	1.67
LP3872EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1449.00/1,000		
LP3872EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.88	2.19	1.67
LP3872EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1449.00/1,000		
LP3872EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.88	2.19	1.67
LP3872EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1449.00/1,000		
LP3872EMP-5.0CT-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.88	2.19	1.67
LP3872EMP-5.0TR-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1449.00/1,000		
LP3872ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.47	1.89
LP3872ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.47	1.89
LP3872ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.47	1.89
LP3872ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.47	1.89
LP3872ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	3.25	2.47	1.89
LP3872ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	3.25	2.47	1.89
LP3873ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.13	3.14	2.40
LP3873ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.13	3.14	2.40
LP3873ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.13	3.14	2.40
LP3873ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.13	3.14	2.40
LP3873ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	4.13	3.14	2.40
LP3873ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	4.13	3.14	2.40
LP3873ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	4.13	3.14	2.40
LP3874EMP-1.8CT-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.98	2.21	1.64
LP3874EMP-1.8TR-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	1228.80/1,000		
LP3874EMP-2.5CT-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.98	2.21	1.64
LP3874EMP-2.5TR-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	1228.80/1,000		
LP3874EMP-3.3CT-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.98	2.21	1.64
LP3874EMP-3.3TR-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	1228.80/1,000		
LP3874EMP-5.0CT-ND	5V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.98	2.21	1.64
LP3874EMP-5.0TR-ND	5V, 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	1228.80/1,000		
LP3874EMP-ADJCT-ND	Adj., 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.98	2.21	1.64
LP3874EMP-ADJTR-ND	Adj., 0.8A Fast Ultra LDO Linear Regulator*	SOT-223-5	1228.80/1,000		
LP3874ES-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	2.73	2.08	1.59
LP3874ES-2.5-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	2.73	2.08	1.59
LP3874ES-3.3-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	2.73	2.08	1.59
LP3874ES-5.0-ND	5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	2.73	2.08	1.59
LP3874ES-ADJ-ND	Adj., 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	2.73	2.08	1.59
LP3874ET-3.3-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator*	TO-220-5	2.73	2.08	1.59
LP3874ET-ADJ-ND	Adj., 0.8A Fast Ultra LDO Linear Regulator*	TO-220-5	2.73	2.08	1.59
LP3875EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.88	2.19	1.67
LP3875EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1449.00/1,000		
LP3875EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.88	2.19	1.67
LP3875EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1449.00/1,000		
LP3875EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.88	2.19	1.67
LP3875EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1449.00/1,000		
LP3875EMP-5.0CT-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.88	2.19	1.67
LP3875EMP-5.0TR-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1449.00/1,000		
LP3875EMP-ADJCT-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.88	2.19	1.67

***RoHS Compliant**

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP3875EMP-ADJTR-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1449.00/1,000		
LP3875ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.47	1.89
LP3875ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.47	1.89
LP3875ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.47	1.89
LP3875ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.47	1.89
LP3875ES-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.25	2.47	1.89
LP3875ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3875ET-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	3.25	2.47	1.89
LP3875ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	3.25	2.47	1.89
LP3875ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	3.25	2.47	1.89
LP3875ET-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	3.25	2.47	1.89
LP3876ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.13	3.14	2.40
LP3876ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.13	3.14	2.40
LP3876ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.13	3.14	2.40
LP3876ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.13	3.14	2.40
LP3876ES-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.13	3.14	2.40
LP3876ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	4.13	3.14	2.40
LP3876ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	4.13	3.14	2.40
LP3876ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	4.13	3.14	2.40
LP3876ET-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3878MR-ADJ-ND	Adj., 800mA Micropower, Low Noise, Ceramic Stable Voltage Regulator*	8-PSOP	2.50	1.86	1.38
LP3878SD-ADJCT-ND	Adj., 800mA Micropower, Low Noise, Ceramic Stable Voltage Regulator*	8-LLP	2.98	2.27	1.73
LP3878SD-ADJTR-ND	Adj., 800mA Micropower, Low Noise, Ceramic Stable Voltage Regulator*	8-LLP	1499.40/1,000		
LP3879MR-1.0-ND	1V, Micropower 800mA Low Noise Voltage Regulator*	8-PSOP	2.50	1.86	1.38
LP3879MR-1.2-ND	1.2V, Micropower 800mA Low Noise Voltage Regulator*	8-PSOP	2.50	1.86	1.38
LP3879SD-1.0CT-ND	1V, Micropower 800mA Low Noise Voltage Regulator*	8-LLP	2.50	1.86	1.38
LP3879SD-1.0TR-ND	1V, Micropower 800mA Low Noise Voltage Regulator*	8-LLP	1034.24/1,000		
LP3879SD-1.2CT-ND	1.2V, Micropower 800mA Low Noise Voltage Regulator*	8-LLP	2.50	1.86	1.38
LP3879SD-1.2TR-ND	1.2V, Micropower 800mA Low Noise Voltage Regulator*	8-LLP	1034.24/1,000		
LP3881EMR-1.2-ND	1.2V, 0.8A Fast Response LDO Linear Regulator*	8-PSOP	4.45	3.39	2.59
LP3881EMR-1.5-ND	1.5V, 0.8A Fast Response LDO Linear Regulator*	8-PSOP	4.45	3.39	2.59
LP3881EMR-1.8-ND	1.8V, 0.8A Fast Response LDO Linear Regulator	8-PSOP	4.45	3.39	2.59
LP3881ES-1.2-ND	1.2V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	4.45	3.39	2.59
LP3881ES-1.5-ND	1.5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	4.45	3.39	2.59
LP3882EMR-1.2-ND	1.2V, 1.5A Fast Response LDO Linear Regulator*	8-PSOP	4.65	3.54	2.70
LP3882EMR-1.5-ND	1.5V, 1.5A Fast Response LDO Linear Regulator*	8-PSOP	4.65	3.54	2.70
LP3882ES-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.65	3.54	2.70
LP3882ES-1.5-ND	1.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.65	3.54	2.70
LP3882ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	4.65	3.54	2.70
LP3882ET-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	4.65	3.54	2.70
LP3883ES-1.2-ND	1.2V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	5.73	4.36	3.33
LP3883ES-1.5-ND	1.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	5.73	4.36	3.33
LP3883ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	5.73	4.36	3.33
LP3883ET-1.2-ND	1.2V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	5.73	4.36	3.33
LP3883ET-1.5-ND	1.5V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	5.73	4.36	3.33
LP3891EMR-1.2-ND	1.2V, 0.8A Fast Ultra LDO Linear Regulator*	8-PSOP	2.85	2.17	1.66
LP3891EMR-1.5-ND	1.5V, 0.8A Fast Ultra LDO Linear Regulator*	8-PSOP	2.85	2.17	1.66
LP3891EMR-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator*	8-PSOP	2.85	2.17	1.66
LP3891ES-1.2-ND	1.2V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	2.85	2.17	1.66
LP3891ES-1.5-ND	1.5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	2.85	2.17	1.66
LP3891ES-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator*	TO-263-5	2.85	2.17	1.66
LP3891ET-1.2-ND	1.2V, 0.8A Fast Ultra LDO Linear Regulator*	TO-220-5	2.85	2.17	1.66
LP3891ET-1.5-ND	1.5V, 0.8A Fast Ultra LDO Linear Regulator*	TO-220-5	2.85	2.17	1.66
LP3891ET-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator*	TO-220-5	2.85	2.17	1.66
LP3892EMR-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator*	8-PSOP	3.33	2.53	1.93
LP3892EMR-1.5-ND	1.5V, 1.5A Fast Ultra LDO Linear Regulator*	8-PSOP	3.33	2.53	1.93
LP3892EMR-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	8-PSOP	3.33	2.53	1.93
LP3892ES-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.33	2.53	1.93
LP3892ES-1.5-ND	1.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.33	2.53	1.93
LP3892ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	3.33	2.53	1.93
LP3892ET-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	3.33	2.53	1.93
LP3893ES-1.2-ND	1.2V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.15	3.16	2.41
LP3893ES-1.5-ND	1.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.15	3.16	2.41
LP3893ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	4.15	3.16	2.41
LP3893ET-1.2-ND	1.2V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	4.15	3.16	2.41
LP3893ET-1.5-ND	1.5V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	4.15	3.16	2.41
LP3905SD-A3CT-ND	Dual High Current DC/DC and Dual Linear Regulator*	14-LLP	3.80	2.89	2.21
LP3905SD-A3TR-ND	Dual High Current DC/DC and Dual Linear Regulator*	14-LLP	1915.20/1,000		
LP3905SD-00CT-ND	Power Management Unit for Low Power Handheld Application*	14-LLP	3.80	2.89	2.21
LP3905SD-00TR-ND	Power Management Unit for Low Power Handheld Application*	14-LLP	1915.20/1,000		
LP3905SD-30CT-ND	Power Management Unit for Low Power Handheld Application*	14-LLP	3.80	2.89	2.21
LP3905SD-30TR-ND	Power Management Unit for Low Power Handheld Application*	14-LLP	1915.20/1,000		
LP3906SQ-DJXICT-ND	Dual High Current Buck DC/DC and Dual Linear Reg.*	24-LLP	5.23	3.98	3.04
LP3906SQ-DJXITR-ND	Dual High Current Buck DC/DC and Dual Linear Reg.*	24-LLP	2633.40/1,000		
LP3906SQ-JXXICT-ND	Dual High Current Buck DC/DC and Dual Linear Reg.*	24-LLP	5.23	3.98	3.04
LP3906SQ-JXXITR-ND	Dual High Current Buck DC/DC and Dual Linear Reg.*	24-LLP	2633.40/1,000		
LP3928TL-1828CT-ND	2.85V, High Speed Bi-Directional Level Shifter*	16-microSMD	3.45	2.63	2.01
LP3928TL-1828TR-ND	2.85V, High Speed Bi-Directional Level Shifter*	16-microSMD	458.85/250		
LP3931ISQCT-ND	Dual RGB LED Driver with High Current Boost DC-DC Converter*	24-LLP	3.80	2.89	2.21
LP3931ISQTR-ND	Dual RGB LED Driver with High Current Boost DC-DC Converter*	24-LLP	1915.20/1,000		
LP3933SLCT-ND	Complete Lighting Management System*	32-CSP	4.28	3.25	2.48
LP3933SLTR-ND	Complete Lighting Management System*	32-CSP	2154.60/1,000		
LP3936SLCT-ND	Complete Lighting Management System*	32-CSP	4.28	3.25	2.48
LP3936SLTR-ND	Complete Lighting Management System*	32-CSP	2154.60/1,000		
LP3943ISQEV-ND	Evaluation Board for LP3943 Funlight Driver	—	181.50	—	—
LP3943ISQCT-ND	16-LED Fun Light Driver*	24-LLP	3.10	2.36	1.80
LP3943ISQTR-ND	16-LED Fun Light Driver*	24-LLP	1562.40/1,000		
LP3944ISQCT-ND	8-LED Fun Light Driver*	24-LLP	2.85	2.17	1.66
LP3944ISQTR-ND	8-LED Fun Light Driver*	24-LLP	1436.40/1,000		
LP3946LDCT-ND	Battery Charge Management System*	14-LLP	2.73	2.08	1.59
LP3946LDTR-ND	Battery Charge Management System*	14-LLP	1373.40/1,000		
LP3947ISD-09CT-ND	USB/AC Adaptor, Single Cell Li-Ion Battery Charger*	14-LLP	3.09	2.30	1.70
LP3947ISD-09TR-ND	USB/AC Adaptor, Single Cell Li-Ion Battery Charger*	14-LLP	1277.44/1,000		

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP3947ISD-51CT-ND	USB/AC Adaptor, Single Cell Li-Ion Battery Charger*	14-LLP	3.09	2.30	1.70
LP3947ISD-51TR-ND	USB/AC Adaptor, Single Cell Li-Ion Battery Charger*	14-LLP	1277.44/1,000		
LP3950SLCT-ND	Color LED Driver with Audio Synchronizer*	32-CSP	3.80	2.89	2.21
LP3950SLTR-ND	Color LED Driver with Audio Synchronizer*	32-CSP	1915.20/1,000		
LP3961EMP-1.8CT-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	2.67	1.98	1.47
LP3961EMP-1.8TR-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	1100.80/1,000		
LP3961EMP-2.5CT-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	2.67	1.98	1.47
LP3961EMP-2.5TR-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	1100.80/1,000		
LP3961EMP-3.3CT-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	2.67	1.98	1.47
LP3961EMP-3.3TR-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	1100.80/1,000		
LP3961EMP-5.0CT-ND	5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	2.67	1.98	1.47
LP3961EMP-5.0TR-ND	5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	1100.80/1,000		
LP3961ES-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator*	SOT-263-5	3.04	2.26	1.67
LP3961ES-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-263-5	3.04	2.26	1.67
LP3961ES-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator*	SOT-263-5	3.04	2.26	1.67
LP3961ES-5.0-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-263-5	3.04	2.26	1.67
LP3961ET-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3961ET-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator*	TO-220-5	3.04	2.26	1.67
LP3961ET-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3961ET-5.0-ND	5V, 800mA Fast Ultra LDO Linear Regulator*	TO-220-5	3.04	2.26	1.67
LP3962EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.58	1.96	1.50
LP3962EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1297.80/1,000		
LP3962EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.58	1.96	1.50
LP3962EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1297.80/1,000		
LP3962EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.58	1.96	1.50
LP3962EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1297.80/1,000		
LP3962EMP-5.0CT-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.58	1.96	1.50
LP3962EMP-5.0TR-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1297.80/1,000		
LP3962ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	2.90	2.21	1.69
LP3962ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	2.90	2.21	1.69
LP3962ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	2.90	2.21	1.69
LP3962ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	2.90	2.21	1.69
LP3962ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	2.90	2.21	1.69
LP3962ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	2.90	2.21	1.69
LP3963ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	3.70	2.82	2.15
LP3963ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	3.70	2.82	2.15
LP3963ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	3.70	2.82	2.15
LP3963ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	3.70	2.82	2.15
LP3963ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3963ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3963ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3963ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3964EMP-1.8CT-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.67	1.98	1.47
LP3964EMP-1.8TR-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1100.80/1,000		
LP3964EMP-2.5CT-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	2.67	1.98	1.47
LP3964EMP-2.5TR-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	1100.80/1,000		
LP3964EMP-3.3CT-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	2.67	1.98	1.47
LP3964EMP-3.3TR-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	1100.80/1,000		
LP3964EMP-5.0CT-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.67	1.98	1.47
LP3964EMP-5.0TR-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1100.80/1,000		
LP3964EMP-ADJCT-ND	Adj., 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	2.67	1.98	1.47
LP3964EMP-ADJTR-ND	Adj., 800mA Fast Ultra LDO Linear Regulator*	SOT-223-5	1100.80/1,000		
LP3964ES-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator*	TO-263-5	3.04	2.26	1.67
LP3964ES-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator*	TO-263-5	3.04	2.26	1.67
LP3964ES-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator*	TO-263-5	3.04	2.26	1.67
LP3964ES-5.0-ND	5V, 800mA Fast Ultra LDO Linear Regulator	TO-263-5	3.04	2.26	1.67
LP3964ES-ADJ-ND	Adj., 800mA Fast Ultra LDO Linear Regulator*	TO-263-5	3.04	2.26	1.67
LP3964ET-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3964ET-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3964ET-ADJ-ND	Adj., 800mA Fast Ultra LDO Linear Regulator*	TO-220-5	3.04	2.26	1.67
LP3965EMP-ADJCT-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.58	1.96	1.50
LP3965EMP-ADJTR-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1297.80/1,000		
LP3965EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.58	1.96	1.50
LP3965EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1297.80/1,000		
LP3965EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.58	1.96	1.50
LP3965EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1297.80/1,000		
LP3965EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	2.58	1.96	1.50
LP3965EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	SOT-223-5	1297.80/1,000		
LP3965EMP-5.0CT-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.58	1.96	1.50
LP3965EMP-5.0TR-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1297.80/1,000		
LP3965ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	2.90	2.21	1.69
LP3965ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	2.90	2.21	1.69
LP3965ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	2.90	2.21	1.69
LP3965ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	2.90	2.21	1.69
LP3965ES-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	TO-263-5	2.90	2.21	1.69
LP3965ET-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	2.90	2.21	1.69
LP3965ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	2.90	2.21	1.69
LP3965ET-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	2.90	2.21	1.69
LP3965ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	2.90	2.21	1.69
LP3965ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator*	TO-220-5	2.90	2.21	1.69
LP3966ES-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator*	TO-263-5	3.70	2.82	2.15
LP3966ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	3.70	2.82	2.15
LP3966ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	3.70	2.82	2.15
LP3966ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	3.70	2.82	2.15
LP3966ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator*	TO-263-5	3.70	2.82	2.15
LP3966ET-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator*	TO-220-5	3.70	2.82	2.15
LP3966ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3966ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3966ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator*	TO-220-5	3.70	2.82	2.15
LP3966ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3970SQ-31CT-ND	Power Management Unit for Adv. Application Processor*	48-LLP	7.29	5.77	4.62
LP3970SQ-31TR-ND	Power Management Unit for Adv. Application Processor*	48-LLP	4302.80/1,000		
LP3970SQ-35CT-ND	Power Management Unit for Adv. Application Processor*	48-LLP	7.29	5.77	4.62
LP3970SQ-35TR-ND	Power Management Unit for Adv. Application Processor*	48-LLP	1101.73/250		
LP3970SQ-44CT-ND	Power Management Unit for Adv. Application Processor*	48-LLP	7.29	5.77	4.62
LP3970SQ-44TR-ND	Power Management Unit for Adv. Application Processor*	48-LLP	1101.73/250		
LP3970SQ-45CT-ND	Power Management Unit for Adv. Application Processor*	48-LLP	7.29	5.77	4.62
LP3970SQ-45TR-ND	Power Management Unit for Adv. Application Processor*	48-LLP	1101.73/250		
LP3971SQ-B510CT-ND	Power Management Unit for Adv. Application Processor*	40-LLP	6.49	5.13	4.11
LP3971SQ-B510TR-ND	Power Management Unit for Adv. Application Processor*	40-LLP	3831.60/1,000		
LP3971SQ-N510CT-ND	Power Management Unit for Adv. Application Processor*	40-LLP	6.49	5.13	4.11
LP3971SQ-N510TR-ND	Power Management Unit for Adv. Application Processor*	40-LLP	3831.60/1,000		
LP3971SQ-P55ACT-ND	Power Management Unit for Adv. Application Processor*	40-LLP	6.49	5.13	4.11
LP3971SQ-P55ATR-ND	Power Management Unit for Adv. Application Processor*	40-LLP	3831.60/1,000		
LP3981ILD-2.5CT-ND	2.5V, Micropower 300mA Ultra LDO CMOS Voltage Reg.*	6-LLP	1.21	.89	.65

** RoHS Compliant*

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP3981ILD-2.5TR-ND	2.5V, Micropower 300mA Ultra LDO CMOS Voltage Reg.*	6-LLP		419.90/1,000	
LP3981ILD-2.83CT-ND	2.83V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	1.21	.89	.65
LP3981ILD-2.83TR-ND	2.83V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP		419.90/1,000	
LP3981ILD-3.0CT-ND	3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	1.21	.89	.65
LP3981ILD-3.0TR-ND	3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP		419.90/1,000	
LP3981ILD-3.3CT-ND	3.3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.*	6-LLP	1.21	.89	.65
LP3981ILD-3.3TR-ND	3.3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.*	6-LLP		419.90/1,000	
LP3981IMM-2.5CT-ND	2.5V, Micropower 300mA Ultra LDO CMOS Volt. Reg.*	8-MSOP	1.14	.84	.61
LP3981IMM-2.5TR-ND	2.5V, Micropower 300mA Ultra LDO CMOS Volt. Reg.*	8-MSOP		395.20/1,000	
LP3981IMM-2.7CT-ND	2.7V, Micropower 300mA Ultra LDO CMOS Volt. Reg.*	8-MSOP	1.14	.84	.61
LP3981IMM-2.7TR-ND	2.7V, Micropower 300mA Ultra LDO CMOS Volt. Reg.*	8-MSOP		395.20/1,000	
LP3981IMM-2.83CT-ND	2.83V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	1.14	.84	.61
LP3981IMM-2.83TR-ND	2.83V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP		395.20/1,000	
LP3981IMM-3.0CT-ND	3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	1.14	.84	.61
LP3981IMM-3.0TR-ND	3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP		395.20/1,000	
LP3981IMM-3.03CT-ND	3.03V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	1.14	.84	.61
LP3981IMM-3.03TR-ND	3.03V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP		395.20/1,000	
LP3981IMM-3.3CT-ND	3.3V, Micropower 300mA Ultra LDO CMOS Volt. Reg.*	8-MSOP	1.14	.84	.61
LP3981IMM-3.3TR-ND	3.3V, Micropower 300mA Ultra LDO CMOS Volt. Reg.*	8-MSOP		395.20/1,000	
LP3982ILD-ADJCT-ND	Adj., Micropower 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP	1.08	.80	.58
LP3982ILD-ADJTR-ND	Adj., Micropower 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP		375.70/1,000	
LP3982ILD-1.8CT-ND	1.8V, Micropower 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP	1.08	.80	.58
LP3982ILD-1.8TR-ND	1.8V, Micropower 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP		375.70/1,000	
LP3982ILD-2.5CT-ND	2.5V, Micropower 300mA Ultra LDO Low Noise CMOS Reg	8-LLP	1.08	.80	.58
LP3982ILD-2.5TR-ND	2.5V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP		375.70/1,000	
LP3982ILD-2.77CT-ND	2.77V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP	1.08	.80	.58
LP3982ILD-2.77TR-ND	2.77V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP		375.70/1,000	
LP3982ILD-3.0CT-ND	3V, Micropower 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP	1.08	.80	.58
LP3982ILD-3.0TR-ND	3V, Micropower 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP		375.70/1,000	
LP3982ILD-3.3CT-ND	3.3V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg.*	8-LLP	1.08	.80	.58
LP3982ILD-3.3TR-ND	3.3V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg.*	8-LLP		375.70/1,000	
LP3982IMM-ADJCT-ND	Adj., Micropwr 300mA ULDO Low Noise CMOS Reg.*	8-MSOP	1.05	.78	.57
LP3982IMM-ADJTR-ND	Adj., Micropwr 300mA ULDO Low Noise CMOS Reg.*	8-MSOP		365.30/1,000	
LP3982IMM-1.8CT-ND	1.8V, Micropwr 300mA ULDO Low Noise CMOS Reg.*	8-MSOP	1.05	.78	.57
LP3982IMM-1.8TR-ND	1.8V, Micropwr 300mA ULDO Low Noise CMOS Reg.*	8-MSOP		365.30/1,000	
LP3982IMM-2.5CT-ND	2.5V, Micropwr 300mA ULDO Low Noise CMOS Reg.*	8-MSOP	1.05	.78	.57
LP3982IMM-2.5TR-ND	2.5V, Micropwr 300mA ULDO Low Noise CMOS Reg.*	8-MSOP		365.30/1,000	
LP3982IMM-2.77CT-ND	2.77V, Micropower 300mA ULDO Low Noise CMOS Reg.	8-MSOP	1.05	.78	.57
LP3982IMM-2.77TR-ND	2.77V, Micropower 300mA ULDO Low Noise CMOS Reg.	8-MSOP		365.30/1,000	
LP3982IMM-2.82CT-ND	2.82V, Micropower 300mA ULDO Low Noise CMOS Reg.	8-MSOP	1.05	.78	.57
LP3982IMM-2.82TR-ND	2.82V, Micropower 300mA ULDO Low Noise CMOS Reg.	8-MSOP		365.30/1,000	
LP3982IMM-3.0CT-ND	3V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg.*	8-MSOP	1.05	.78	.57
LP3982IMM-3.0TR-ND	3V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg.*	8-MSOP		365.30/1,000	
LP3982IMM-3.3CT-ND	3.3V, Micropwr 300mA ULDO Low Noise CMOS Reg.*	8-MSOP	1.05	.78	.57
LP3982IMM-3.3TR-ND	3.3V, Micropwr 300mA ULDO Low Noise CMOS Reg.*	8-MSOP		365.30/1,000	
LP3983ITL-1.8CT-ND	1.8V, Micropower 5mA CMOS Voltage Regulator	5-microSMD	1.18	.87	.63
LP3983ITL-1.8TR-ND	1.8V, Micropower 5mA CMOS Voltage Regulator	5-microSMD		117.75/250	
LP3983ITL-2.5CT-ND	2.5V, Micropower 5mA CMOS Voltage Regulator	5-microSMD	1.18	.87	.63
LP3983ITL-2.5TR-ND	2.5V, Micropower 5mA CMOS Voltage Regulator	5-microSMD		117.75/250	
LP3984IBP-1.8CT-ND	1.8V, Micropower 150mA ULDO CMOS Volt. Reg.*	4-microSMD	1.14	.84	.61
LP3984IBP-1.8TR-ND	1.8V, Micropower 150mA ULDO CMOS Volt. Reg.*	4-microSMD		114.00/250	
LP3984IBP-3.1CT-ND	3.1V, Micropwr 150mA Ultra LDO CMOS Volt. Reg	4-microSMD	1.14	.84	.61
LP3984IBP-3.1TR-ND	3.1V, Micropwr 150mA Ultra LDO CMOS Volt. Reg	4-microSMD		114.00/250	
LP3984IMF-1.5CT-ND	1.5V, Micropower 150mA Ultra LDO CMOS Volt. Reg.*	SOT-23-5	1.07	.79	.57
LP3984IMF-1.5TR-ND	1.5V, Micropower 150mA Ultra LDO CMOS Volt. Reg.*	SOT-23-5		370.50/1,000	
LP3984IMF-1.8CT-ND	1.8V, Micropower 150mA Ultra LDO CMOS Volt. Reg.*	SOT-23-5	1.07	.79	.57
LP3984IMF-1.8TR-ND	1.8V, Micropower 150mA Ultra LDO CMOS Volt. Reg.*	SOT-23-5		370.50/1,000	
LP3984IMF-2.0CT-ND	2V, Micropower 150mA Ultra LDO CMOS Volt. Reg.	SOT-23-5	1.07	.79	.57
LP3984IMF-2.0TR-ND	2V, Micropower 150mA Ultra LDO CMOS Volt. Reg.	SOT-23-5		370.50/1,000	
LP3984IMF-3.1CT-ND	3.1V, Micropower 150mA Ultra LDO CMOS Volt. Reg.*	SOT-23-5	1.07	.79	.57
LP3984IMF-3.1TR-ND	3.1V, Micropower 150mA Ultra LDO CMOS Volt. Reg.*	SOT-23-5		370.50/1,000	
LP3984ITP-1.8CT-ND	1.8V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	4-microSMD	1.14	.84	.61
LP3984ITP-1.8TR-ND	1.8V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	4-microSMD		114.00/250	
LP3984ITP-2.9CT-ND	2.9V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	4-microSMD	1.14	.84	.61
LP3984ITP-2.9TR-ND	2.9V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	4-microSMD		114.00/250	
LP3985IBL-2.8CT-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-2.8TR-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBL-2.9CT-ND	2.9V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-2.9TR-ND	2.9V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBL-3.3CT-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-3.3TR-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-2.8CT-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	5-microSMD	.96	.71	.51
LP3985IBP-2.8TR-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	5-microSMD		95.63/250	
LP3985IBP-3.3CT-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-3.3TR-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-5.0CT-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-5.0TR-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IM5-2.5CT-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.04	.75	.55
LP3985IM5-2.5TR-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	SOT-23-5		322.00/1,000	
LP3985IM5-2.6CT-ND	2.6V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-2.6TR-ND	2.6V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-2.7CT-ND	2.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-2.7TR-ND	2.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-2.8CT-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.04	.75	.55
LP3985IM5-2.8TR-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	SOT-23-5		322.00/1,000	
LP3985IM5-285CT-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-285TR-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-2.9CT-ND	2.9V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.04	.75	.55
LP3985IM5-2.9TR-ND	2.9V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	SOT-23-5		322.00/1,000	
LP3985IM5-3.0CT-ND	3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.04	.75	.55
LP3985IM5-3.0TR-ND	3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	SOT-23-5		322.00/1,000	
LP3985IM5-3.1CT-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-3.1TR-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-3.2CT-ND	3.2V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-3.2TR-ND	3.2V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-3.3CT-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-3.3TR-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-4.7CT-ND	4.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.04	.75	.55
LP3985IM5-4.7TR-ND	4.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	SOT-23-5		322.00/1,000	
LP3985IM5-5.0CT-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	SOT-23-5	1.04	.75	.55
LP3985IM5-5.0TR-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	SOT-23-5		322.00/1,000	
LP3985ITL-2.5CT-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-2.5TR-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-2.7CT-ND	2.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-2.7TR-ND	2.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-2.8CT-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-2.8TR-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-285CT-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-285TR-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-3.0CT-ND	3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	5-microSMD	.96	.71	.51
LP3985ITL-3.0TR-ND	3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator*	5-microSMD		95.63/250	
LP3985ITL-3.3CT-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-3.3TR-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-5.0CT-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-5.0TR-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3986BL-2525CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.73	1.27	.92
LP3986BL-2525TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		172.50/250	
LP3986BL-285285CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.73	1.27	.92
LP3986BL-285285TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		172.50/250	
LP3986BL-3028CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.73	1.27	.92
LP3986BL-3028TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		172.50/250	
LP3986BL-3030CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.73	1.27	.92
LP3986BL-3030TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		172.50/250	
LP3986BL-3131CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.73	1.27	.92
LP3986BL-3131TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		172.50/250	
LP3986BL-3333CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.73	1.27	.92
LP3986BL-3333TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		172.50/250	
LP3986TL-2525CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.73	1.27	.92
LP3986TL-2525TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		172.50/250	
LP3986TL-2528CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.73	1.27	.92
LP3986TL-2528TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		172.50/250	
LP3986TL-2818CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator*	8-microSMD	1.73	1.27	.92

*** RoHS Compliant***

(Continued)

LINEAR SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP3986TL-2818TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator*	8-microSMD		172.50/250	
LP3986TL-3028CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.73	1.27	.92
LP3986TL-3028TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		172.50/250	
LP3986TL-3030CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator*	8-microSMD	1.73	1.27	.92
LP3986TL-3030TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator*	8-microSMD		172.50/250	
LP3987ITL-2.5CT-ND	2.5V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD	1.14	.84	.61
LP3987ITL-2.5TR-ND	2.5V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD		114.00/250	
LP3987ITL-2.6CT-ND	2.6V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD	1.14	.84	.61
LP3987ITL-2.6TR-ND	2.6V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD		114.00/250	
LP3987ITL-2.8CT-ND	2.8V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD	1.14	.84	.61
LP3987ITL-2.8TR-ND	2.8V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD		114.00/250	
LP3988IMF-2.5CT-ND	2.5V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5	.96	.71	.52
LP3988IMF-2.5TR-ND	2.5V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5		334.10/1,000	
LP3988IMF-2.85CT-ND	2.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5	.96	.71	.52
LP3988IMF-2.85TR-ND	2.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5		334.10/1,000	
LP3988IMF-3.0CT-ND	3V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5	.96	.71	.52
LP3988IMF-3.0TR-ND	3V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5		334.10/1,000	
LP3988IMF-3.3CT-ND	3.3V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good*	SOT-23-5	.96	.71	.52
LP3988IMF-3.3TR-ND	3.3V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good*	SOT-23-5		334.10/1,000	
LP3988ITL-1.85CT-ND	1.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	5-microSMD	1.07	.79	.57
LP3988ITL-1.85TR-ND	1.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	5-microSMD		106.88/250	
LP3988ITL-2.6CT-ND	2.6V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	5-microSMD	1.07	.79	.57
LP3988ITL-2.6TR-ND	2.6V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	5-microSMD		106.88/250	
LP3988ITL-2.85CT-ND	2.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	5-microSMD	1.07	.79	.57
LP3988ITL-2.85TR-ND	2.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	5-microSMD		106.88/250	
LP3990MF-1.2CT-ND	1.2V, 150mA Linear Voltage Regulator*	SOT-23-5	1.07	.79	.57
LP3990MF-1.2TR-ND	1.2V, 150mA Linear Voltage Regulator*	SOT-23-5		370.50/1,000	
LP3990MF-1.5CT-ND	1.5V, 150mA Linear Voltage Regulator*	SOT-23-5	1.07	.79	.57
LP3990MF-1.5TR-ND	1.5V, 150mA Linear Voltage Regulator*	SOT-23-5		370.50/1,000	
LP3990MF-1.8CT-ND	1.8V, 150mA Linear Voltage Regulator*	SOT-23-5	1.07	.79	.57
LP3990MF-1.8TR-ND	1.8V, 150mA Linear Voltage Regulator*	SOT-23-5		370.50/1,000	
LP3990MF-2.5CT-ND	2.5V, 150mA Linear Voltage Regulator*	SOT-23-5	1.07	.79	.57
LP3990MF-2.5TR-ND	2.5V, 150mA Linear Voltage Regulator*	SOT-23-5		370.50/1,000	
LP3990MF-2.8CT-ND	2.8V, 150mA Linear Voltage Regulator*	SOT-23-5	1.07	.79	.57
LP3990MF-2.8TR-ND	2.8V, 150mA Linear Voltage Regulator*	SOT-23-5		370.50/1,000	
LP3990MF-3.3CT-ND	3.3V, 150mA Linear Voltage Regulator*	SOT-23-5	1.07	.79	.57
LP3990MF-3.3TR-ND	3.3V, 150mA Linear Voltage Regulator*	SOT-23-5		370.50/1,000	
LP3990SD-0.8CT-ND	0.8V, 150mA Linear Voltage Regulator	6-LLP	1.12	.83	.60
LP3990SD-0.8TR-ND	0.8V, 150mA Linear Voltage Regulator	6-LLP		388.70/1,000	
LP3990SD-1.2CT-ND	1.2V, 150mA Linear Voltage Regulator*	6-LLP	1.12	.83	.60
LP3990SD-1.2TR-ND	1.2V, 150mA Linear Voltage Regulator*	6-LLP		388.70/1,000	
LP3990SD-1.35CT-ND	1.35V, 150mA Linear Voltage Regulator*	6-LLP	1.12	.83	.60
LP3990SD-1.35TR-ND	1.35V, 150mA Linear Voltage Regulator*	6-LLP		388.70/1,000	
LP3990SD-1.5CT-ND	1.5V, 150mA Linear Voltage Regulator	6-LLP	1.12	.83	.60
LP3990SD-1.5TR-ND	1.5V, 150mA Linear Voltage Regulator	6-LLP		388.70/1,000	
LP3990SD-1.8CT-ND	1.8V, 150mA Linear Voltage Regulator	6-LLP	1.12	.83	.60
LP3990SD-1.8TR-ND	1.8V, 150mA Linear Voltage Regulator	6-LLP		388.70/1,000	
LP3990SD-2.5CT-ND	2.5V, 150mA Linear Voltage Regulator	6-LLP	1.12	.83	.60
LP3990SD-2.5TR-ND	2.5V, 150mA Linear Voltage Regulator	6-LLP		388.70/1,000	
LP3990SD-2.8CT-ND	2.8V, 150mA Linear Voltage Regulator	6-LLP	1.12	.83	.60
LP3990SD-2.8TR-ND	2.8V, 150mA Linear Voltage Regulator	6-LLP		388.70/1,000	
LP3990TL-0.8CT-ND	0.8V, 150mA Linear Voltage Regulator	4-microSMD	1.07	.79	.57
LP3990TL-0.8TR-ND	0.8V, 150mA Linear Voltage Regulator	4-microSMD		106.88/250	
LP3990TL-1.2CT-ND	1.2V, 150mA Linear Voltage Regulator	4-microSMD	1.07	.79	.57
LP3990TL-1.2TR-ND	1.2V, 150mA Linear Voltage Regulator	4-microSMD		106.88/250	
LP3990TL-1.35CT-ND	1.35V, 150mA Linear Voltage Regulator	4-microSMD	1.07	.79	.57
LP3990TL-1.35TR-ND	1.35V, 150mA Linear Voltage Regulator	4-microSMD		106.88/250	
LP3990TL-1.5CT-ND	1.5V, 150mA Linear Voltage Regulator	4-microSMD	1.07	.79	.57
LP3990TL-1.5TR-ND	1.5V, 150mA Linear Voltage Regulator	4-microSMD		106.88/250	
LP3990TL-1.8CT-ND	1.8V, 150mA Linear Voltage Regulator*	4-microSMD	1.07	.79	.57
LP3990TL-1.8TR-ND	1.8V, 150mA Linear Voltage Regulator*	4-microSMD		106.88/250	
LP3990TL-2.5CT-ND	2.5V, 150mA Linear Voltage Regulator*	4-microSMD	1.07	.79	.57
LP3990TL-2.5TR-ND	2.5V, 150mA Linear Voltage Regulator*	4-microSMD		106.88/250	
LP3990TL-2.8CT-ND	2.8V, 150mA Linear Voltage Regulator	4-microSMD	1.07	.79	.57
LP3990TL-2.8TR-ND	2.8V, 150mA Linear Voltage Regulator	4-microSMD		106.88/250	
LP3992IMF-1.5CT-ND	1.5V, Voltage Regulator with Shutdown	SOT-23-5	1.25	.92	.67
LP3992IMF-1.5TR-ND	1.5V, Voltage Regulator with Shutdown	SOT-23-5		432.90/1,000	
LP3995ILD-1.8CT-ND	1.8V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP	1.16	.86	.62
LP3995ILD-1.8TR-ND	1.8V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP		403.00/1,000	
LP3995ILD-2.8CT-ND	2.8V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP	1.16	.86	.62
LP3995ILD-2.8TR-ND	2.8V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP		403.00/1,000	
LP3995ILD-3.0CT-ND	3V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP	1.16	.86	.62
LP3995ILD-3.0TR-ND	3V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP		403.00/1,000	
LP3995ITL-1.5CT-ND	1.5V, Micropower 150mA CMOS Volt. Reg. with SD	5-microSMD	1.07	.79	.57
LP3995ITL-1.5TR-ND	1.5V, Micropower 150mA CMOS Volt. Reg. with SD	5-microSMD		106.88/250	
LP3995ITL-1.8CT-ND	1.8V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD	1.07	.79	.57
LP3995ITL-1.8TR-ND	1.8V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD		106.88/250	
LP3995ITL-2.1CT-ND	2.1V, Micropower 150mA CMOS Volt. Reg. with SD	5-microSMD	1.07	.79	.57
LP3995ITL-2.1TR-ND	2.1V, Micropower 150mA CMOS Volt. Reg. with SD	5-microSMD		106.88/250	
LP3995ITL-2.5CT-ND	2.5V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD	1.07	.79	.57
LP3995ITL-2.5TR-ND	2.5V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD		106.88/250	
LP3995ITL-2.8CT-ND	2.8V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD	1.07	.79	.57
LP3995ITL-2.8TR-ND	2.8V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD		106.88/250	
LP3995ITL-2.85CT-ND	2.85V, Micropower 150mA CMOS Volt. Reg. with Shutdown	5-microSMD	1.07	.79	.57
LP3995ITL-2.85TR-ND	2.85V, Micropower 150mA CMOS Volt. Reg. with Shutdown	5-microSMD		106.88/250	
LP3995ITL-3.0CT-ND	3V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	5-microSMD	1.07	.79	.57
LP3995ITL-3.0TR-ND	3V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	5-microSMD		106.88/250	
LP3997MM-3.3CT-ND	3.3V, Micropwr 250mA CMOS LDO Regulator*	8-MSOP	1.39	1.03	.75
LP3997MM-3.3TR-ND	3.3V, Micropwr 250mA CMOS LDO Regulator*	8-MSOP		482.30/1,000	
LP3999ITL-1.8CT-ND	1.8V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-1.8TR-ND	1.8V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP3999ITL-1875CT-ND	1.875V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-1875TR-ND	1.875V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP3999ITL-2.4CT-ND	2.4V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-2.4TR-ND	2.4V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP3999ITL-2.5CT-ND	2.5V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-2.5TR-ND	2.5V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP3999ITL-2.8CT-ND	2.8V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-2.8TR-ND	2.8V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP3999ITL-3.3CT-ND	3.3V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-3.3TR-ND	3.3V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP5526TLCT-ND	Lighting Management Unit, High Voltage Boost Converter*	25-microSMD	4.75	3.61	2.76
LP5526TLTR-ND	Lighting Management Unit, High Voltage Boost Converter*	25-microSMD		631.75/250	
LP5526TLEV-ND	Evaluation Board for LM5526*	—	198.00	—	—
LP5527TLCT-ND	Tiny LED Driver for Camera Flash, 4 LEDs with I^2C Programmability*	30-microSMD	4.53	3.44	2.63
LP5527TLTR-ND	Tiny LED Driver for Camera Flash, 4 LEDs with I^2C Programmability*	30-microSMD		601.83/250	
LP5550SQCT-ND	PowerWise™ Technology Compliant Energy Management Unit*	16-LLP	8.99	7.11	5.70
LP5550SQTR-ND	PowerWise™ Technology Compliant Energy Management Unit*	16-LLP		5307.20/1,000	
LP5551SQCT-ND	Energy Management Unit*	36-LLP	8.27	6.55	5.25
LP5551SQTR-ND	Energy Management Unit*	36-LLP		1250.95/250	
LP5900TL-1.5CT-ND	1.5V, 150mA Linear Regulator*	4-microSMD	1.61	1.20	.89
LP5900TL-1.5TR-ND	1.5V, 150mA Linear Regulator*	4-microSMD		175.50/250	
LP5900TL-1.8CT-ND	1.8V, 150mA Linear Regulator*	4-microSMD	1.61	1.20	.89
LP5900TL-1.8TR-ND	1.8V, 150mA Linear Regulator*	4-microSMD		175.50/250	
LP5900TL-1.9CT-ND	1.9V, 150mA Linear Regulator*	4-microSMD	1.61	1.20	.89
LP5900TL-1.9TR-ND	1.9V, 150mA Linear Regulator*	4-microSMD		175.50/250	
LP5900TL-2.0CT-ND	2.0V, 150mA Linear Regulator*	4-microSMD	1.61	1.20	.89
LP5900TL-2.0TR-ND	2.0V, 150mA Linear Regulator*	4-microSMD		175.50/250	
LP5900TL-2.2CT-ND	2.2V, 150mA Linear Regulator*	4-microSMD	1.61	1.20	.89
LP5900TL-2.2TR-ND	2.2V, 150mA Linear Regulator*	4-microSMD		175.50/250	
LP5900TL-2.5CT-ND	2.5V, 150mA Linear Regulator*	4-microSMD	1.61	1.20	.89
LP5900TL-2.5TR-ND	2.5V, 150mA Linear Regulator*	4-microSMD		175.50/250	
LP5900TL-2.8CT-ND	2.8V, 150mA Linear Regulator*	4-microSMD	1.61	1.20	.89
LP5900TL-2.8TR-ND	2.8V, 150mA Linear Regulator*	4-microSMD		175.50/250	
LP5900TL-3.0CT-ND	3V, 150mA Linear Regulator*	4-microSMD	1.61	1.20	.89
LP5900TL-3.0TR-ND	3V, 150mA Linear Regulator*	4-microSMD		175.50/250	
LP5900TL-3.3CT-ND	3.3V, 150mA Linear Regulator*	4-microSMD	1.61	1.20	.89
LP5900TL-3.3TR-ND	3.3V, 150mA Linear Regulator*	4-microSMD		175.50/250	
LP5951MF-1.3CT-ND	1.3V, 150mA LDO CMOS Voltage Regulator*	SOT-23-5	.99	.72	.52
LP5951MF-1.3TR-ND	1.3V, 150mA LDO CMOS Voltage Regulator*	SOT-23-5		306.60/1,000	
LP5951MG-1.3CT-ND	1.3V, 150mA LDO CMOS Voltage Regulator*	SC70-5	1.07	.78	.56
LP5951MG-1.3TR-ND	1.3V, 150mA LDO CMOS Voltage Regulator*	SC70-5		666.40/2,000	
LP5951MG-1.5CT-ND	1.5V, 150mA LDO CMOS Voltage Regulator*	SC70-5	1.07	.78	.56
LP5951MG-1.5TR-ND	1.5V, 150mA LDO CMOS Voltage Regulator*	SC70-5		333.20/1,000	
LP5990TM-2.8CT-ND	2.8V, 200mA CMOS LDO Voltage Regulator*	4-microSMD	1.39	1.03	.75
LP5990TM-2.8TR-ND	2.8V, 200mA CMOS LDO Voltage Regulator*	4-microSMD		139.13/250	
LP8340CDT-1.8-ND	1.8V, LDO, Low IQ, 1.0A CMOS Linear Regulator	DPAK	1.70	1.25	.91
LP8340CDT-2.5-ND	2.5V, LDO, Low IQ, 1.0A CMOS Linear Regulator*	DPAK	1.70	1.25	.91
LP8340CDT-3.3-ND	3.3V, LDO, Low IQ, 1.0A CMOS Linear Regulator*	DPAK	1.70	1.25	.91
LP8340CDT-5.0-ND	5V, LDO, Low IQ, 1.0A CMOS Linear Regulator*	DPAK	1.70	1.25	.91
LP8340CLD-1.8CT-ND	1.8V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP	1.70	1.25	.91
LP8340CLD-1.8TR-ND	1.8V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP		588.90/1,000	
LP8340CLD-2.5CT-ND	2.5V, LDO, Low IQ, 1.0A CMOS Linear Regulator*	6-LLP	1.70	1.25	.91
LP8340CLD-2.5TR-ND	2.5V, LDO, Low IQ, 1.0A CMOS Linear Regulator*	6-LLP		588.90/1,000	
LP8340CLD-3.3CT-ND	3.3V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP	1.70	1.25	.91
LP8340CLD-3.3TR-ND	3.3V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP		588.90/1,000	
LP8340CLD-5.0CT-ND	5V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP	1.70	1.25	.91
LP8340CLD-5.0TR-ND	5V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP		588.90/1,000	
LP8340CLD-ADJCT-ND	Adjustable, LDO, Low IQ, 1.0A CMOS Linear Regulator*	6-LLP	1.70	1.25	.91
LP8340CLD-ADJTR-ND	Adjustable, LDO, Low IQ, 1.0A CMOS Linear Regulator*	6-LLP		588.90/1,000	
LP8345CDT-1.8-ND	1.8V, LDO, Low IQ, 500mA CMOS Linear Regulator*	DPAK	1.72	1.26	.92
LP8345CDT-2.5-ND	2.5V, LDO, Low IQ, 500mA CMOS Linear Regulator*	DPAK	1.72	1.26	.92
LP8345CDT-3.3-ND	3.3V, LDO, Low IQ, 500mA CMOS Linear Regulator*	DPAK	1.72	1.26	.92
LP8345CDT-5.0-ND	5V, LDO, Low IQ, 500mA CMOS Linear Regulator*	DPAK	1.72	1.26	.92
LP8345CLD-1.8CT-ND	1.8V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	1.72	1.26	.92
LP8345CLD-1.8TR-ND	1.8V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP		595.40/1,000	
LP8345CLD-2.5CT-ND	2.5V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	1.72	1.26	.92
LP8345CLD-2.5TR-ND	2.5V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP		595.40/1,000	
LP8345CLD-3.3CT-ND	3.3V, LDO, Low IQ, 500mA CMOS Linear Regulator*	6-LLP	1.72	1.26	.92
LP8345CLD-3.3TR-ND	3.3V, LDO, Low IQ, 500mA CMOS Linear Regulator*	6-LLP		595.40/1,000	
LP8345CLD-5.0CT-ND	5V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	1.72	1.26	.92
LP8345CLD-5.0TR-ND	5V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP		595.40/1,000	
LP8345CLD-ADJCT-ND	Adjustable, LDO, Low IQ, 500mA CMOS Linear Regulator*	6-LLP	1.72	1.26	.92
LP8345CLD-ADJTR-ND	Adjustable, LDO, Low IQ, 500mA CMOS Linear Regulator*	6-LLP		595.40/1,000	
LP8358MF-1.2CT-ND	1.2V, 150mA LDO Voltage Regulator with Power Good	SOT-23-5	.99	.72	.52
LP8358MF-1.2TR-ND	1.2V, 150mA LDO Voltage Regulator with Power Good	SOT-23-5		308.00/1,000	
LP38690DT-1.8-ND	1.8V, 1A LDO CMOS Linear Regulator*	TO-252	1.81	1.33	.97
LP38690DT-2.5-ND	2.5V, 1A LDO CMOS Linear Regulator*	TO-252	1.81	1.33	.97
LP38690DT-3.3-ND	3.3V, 1A LDO CMOS Linear Regulator*	TO-252	1.81	1.33	.97
LP38690DT-5.0-ND	5V, 1A LDO CMOS Linear Regulator*	TO-252	1.81	1.33	.97
LP38690SD-1.8CT-ND	1.8V, 1A LDO CMOS Linear Regulator	6-LLP	1.81	1.33	.97
LP38690SD-1.8TR-ND	1.8V, 1A LDO CMOS Linear Regulator	6-LLP		627.90/1,000	
LP38690SD-2.5CT-ND	2.5V, 1A LDO CMOS Linear Regulator	6-LLP	1.81	1.33	.97
LP38690SD-2.5TR-ND	2.5V, 1A LDO CMOS Linear Regulator	6-LLP		627.90/1,000	

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LP38690SD-3.3CT-ND	3.3V, 1A LDO CMOS Linear Regulator	6-LLP	1.81	1.33	.97
LP38690SD-3.3TR-ND	3.3V, 1A LDO CMOS Linear Regulator	6-LLP		627.90/1,000	
LP38690SD-5.0CT-ND	5V, 1A LDO CMOS Linear Regulator*	6-LLP	1.81	1.33	.97
LP38690SD-5.0TR-ND	5V, 1A LDO CMOS Linear Regulator*	6-LLP		627.90/1,000	
LP38690SD-ADJCT-ND	Adjustable, 1A LDO CMOS Linear Regulator*	6-LLP	1.81	1.33	.97
LP38690SD-ADJTR-ND	Adjustable, 1A LDO CMOS Linear Regulator*	6-LLP		627.90/1,000	
LP38691DT-1.8-ND	1.8V, 500mA LDO CMOS Linear Regulator*	TO-252	1.76	1.29	.94
LP38691DT-2.5-ND	2.5V, 500mA LDO CMOS Linear Regulator	TO-252	1.76	1.29	.94
LP38691DT-3.3-ND	3.3V, 500mA LDO CMOS Linear Regulator*	TO-252	1.76	1.29	.94
LP38691DT-5.0-ND	5.0V, 500mA LDO CMOS Linear Regulator*	TO-252	1.76	1.29	.94
LP38691SD-1.8CT-ND	1.8V, 500mA LDO CMOS Linear Regulator	6-LLP	1.76	1.29	.94
LP38691SD-1.8TR-ND	1.8V, 500mA LDO CMOS Linear Regulator	6-LLP		608.40/1,000	
LP38691SD-3.3CT-ND	3.3V, 500mA LDO CMOS Linear Regulator*	6-LLP	1.76	1.29	.94
LP38691SD-3.3TR-ND	3.3V, 500mA LDO CMOS Linear Regulator*	6-LLP		608.40/1,000	
LP38691SD-5.0CT-ND	5.0V, 500mA LDO CMOS Linear Regulator*	6-LLP	1.76	1.29	.94
LP38691SD-5.0TR-ND	5.0V, 500mA LDO CMOS Linear Regulator*	6-LLP		608.40/1,000	
LP38691SD-ADJCT-ND	Adjustable, 500mA LDO CMOS Linear Regulator	6-LLP	1.76	1.29	.94
LP38691SD-ADJTR-ND	Adjustable, 500mA LDO CMOS Linear Regulator	6-LLP		608.40/1,000	
LP38692MP-1.8CT-ND	1.8V, 1A LDO CMOS Linear Regulator	SOT-223-5	1.59	1.18	.88
LP38692MP-1.8TR-ND	1.8V, 1A LDO CMOS Linear Regulator	SOT-223-5		656.64/1,000	
LP38692MP-2.5CT-ND	2.5V, 1A LDO CMOS Linear Regulator	SOT-223-5	1.59	1.18	.88
LP38692MP-2.5TR-ND	2.5V, 1A LDO CMOS Linear Regulator	SOT-223-5		656.64/1,000	
LP38692MP-3.3CT-ND	3.3V, 1A LDO CMOS Linear Regulator*	SOT-223-5	1.59	1.18	.88
LP38692MP-3.3TR-ND	3.3V, 1A LDO CMOS Linear Regulator*	SOT-223-5		656.64/1,000	
LP38692MP-5.0CT-ND	5V, 1A LDO CMOS Linear Regulator*	SOT-223-5	1.59	1.18	.88
LP38692MP-5.0TR-ND	5V, 1A LDO CMOS Linear Regulator*	SOT-223-5		656.64/1,000	
LP38692MP-ADJCT-ND	Adjustable, 1A LDO CMOS Linear Regulator*	SOT-223-5	1.59	1.18	.88
LP38692MP-ADJTR-ND	Adjustable, 1A LDO CMOS Linear Regulator*	SOT-223-5		656.64/1,000	
LP38692SD-5.0CT-ND	5V, 1A LDO CMOS Linear Regulator*	6-LLP	1.59	1.18	.88
LP38692SD-5.0TR-ND	5V, 1A LDO CMOS Linear Regulator*	6-LLP		656.64/1,000	
LP38692SD-ADJCT-ND	Adjustable, 1A LDO CMOS Linear Regulator*	6-LLP	1.59	1.18	.88
LP38692SD-ADJTR-ND	Adjustable, 1A LDO CMOS Linear Regulator*	6-LLP		656.64/1,000	
LP38693MP-1.8CT-ND	1.8V, 500mA LDO CMOS Linear Regulator	SOT-223	1.87	1.37	1.00
LP38693MP-1.8TR-ND	1.8V, 500mA LDO CMOS Linear Regulator	SOT-223		647.40/1,000	
LP38693MP-2.5CT-ND	2.5V, 500mA LDO CMOS Linear Regulator	SOT-223	1.87	1.37	1.00
LP38693MP-2.5TR-ND	2.5V, 500mA LDO CMOS Linear Regulator	SOT-223		647.40/1,000	
LP38693MP-3.3CT-ND	3.3V, 500mA LDO CMOS Linear Regulator*	SOT-223	1.87	1.37	1.00
LP38693MP-3.3TR-ND	3.3V, 500mA LDO CMOS Linear Regulator*	SOT-223		647.40/1,000	
LP38693MP-5.0CT-ND	5.0V, 500mA LDO CMOS Linear Regulator	SOT-223	1.87	1.37	1.00
LP38693MP-5.0TR-ND	5.0V, 500mA LDO CMOS Linear Regulator	SOT-223		647.40/1,000	
LP38693MP-ADJCT-ND	Adjustable, 500mA LDO CMOS Linear Regulator*	SOT-223	1.87	1.37	1.00
LP38693MP-ADJTR-ND	Adjustable, 500mA LDO CMOS Linear Regulator*	SOT-223		647.40/1,000	
LP38693SD-2.5CT-ND	2.5V, 500mA LDO CMOS Linear Regulator	6-LLP	1.87	1.37	1.00
LP38693SD-2.5TR-ND	2.5V, 500mA LDO CMOS Linear Regulator	6-LLP		647.40/1,000	
LP38693SD-3.3CT-ND	3.3V, 500mA LDO CMOS Linear Regulator*	6-LLP	1.87	1.37	1.00
LP38693SD-3.3TR-ND	3.3V, 500mA LDO CMOS Linear Regulator*	6-LLP		647.40/1,000	
LP38693SD-5.0CT-ND	5.0V, 500mA LDO CMOS Linear Regulator	6-LLP	1.87	1.37	1.00
LP38693SD-5.0TR-ND	5.0V, 500mA LDO CMOS Linear Regulator	6-LLP		647.40/1,000	
LP38693SD-ADJCT-ND	Adjustable, 500mA LDO CMOS Linear Regulator	6-LLP	1.87	1.37	1.00
LP38693SD-ADJTR-ND	Adjustable, 500mA LDO CMOS Linear Regulator	6-LLP		647.40/1,000	
LP38841MR-ADJ-ND	Adjustable, 0.8A, LDO Linear Regulator*	8-PSOP	4.95	3.77	2.88
LP38841S-1.2-ND	1.2V, 0.8A, LDO Linear Regulator*	TO-263-5	4.95	3.77	2.88
LP38841T-1.2-ND	1.2V, 0.8A, LDO Linear Regulator	TO-220-5	4.95	3.77	2.88
LP38842MR-ADJ-ND	Adjustable, 1.5A, LDO Linear Regulator*	8-PSOP	5.18	3.94	3.01
LP38842S-0.8-ND	0.8V, 1.5A, LDO Linear Regulator	TO-263-5	5.18	3.94	3.01
LP38842S-1.2-ND	1.2V, 1.5A, LDO Linear Regulator*	TO-263-5	5.18	3.94	3.01
LP38842S-1.5-ND	1.5V, 1.5A, LDO Linear Regulator*	TO-263-5	5.18	3.94	3.01
LP38842T-0.8-ND	0.8V, 1.5A, LDO Linear Regulator	TO-220-5	5.18	3.94	3.01
LP38842T-1.2-ND	1.2V, 1.5A, LDO Linear Regulator	TO-220-5	5.18	3.94	3.01
LP38842T-1.5-ND	1.5V, 1.5A, LDO Linear Regulator	TO-220-5	5.18	3.94	3.01
LP38843S-0.8-ND	0.8V, 3A, LDO Linear Regulator	TO-263-5	5.36	4.24	3.40
LP38843S-1.2-ND	1.2V, 3A, LDO Linear Regulator*	TO-263-5	5.36	4.24	3.40
LP38843S-1.5-ND	1.5V, 3A, LDO Linear Regulator*	TO-263-5	5.36	4.24	3.40
LP38843T-0.8-ND	0.8V, 3A, LDO Linear Regulator	TO-220-5	5.36	4.24	3.40
LP38843T-1.2-ND	1.2V, 3A, LDO Linear Regulator*	TO-220-5	5.36	4.24	3.40
LP38843T-1.5-ND	1.5V, 3A, LDO Linear Regulator	TO-220-5	5.36	4.24	3.40
LP38851T-ADJ-ND	Adjustable, 800mA, LDO Linear Regulator*	TO-220-7	3.09	2.30	1.70
LP38852S-ADJ-ND	Adjustable, 1.5A, LDO Linear Regulator*	TO-263-7	2.98	2.27	1.73
LP38852T-ADJ-ND	Adjustable, 1.5A, LDO Linear Regulator*	TO-220-7	2.98	2.27	1.73
LP38853S-ADJ-ND	Adjustable, 3A, LDO Linear Regulator*	TO-263-7	5.23	3.98	3.04
LP38853T-ADJ-ND	Adjustable, 3A, LDO Linear Regulator*	TO-220-7	5.23	3.98	3.04
LP38855T-0.8-ND	0.8V,1.5A, LDO Linear Regulator*	TO-220-5	2.73	2.08	1.59
LP38855T-1.2-ND	1.2V,1.5A, LDO Linear Regulator*	TO-220-5	2.73	2.08	1.59
LP38856S-0.8-ND	0.8V, 3A, LDO Linear Regulator*	TO-263-5	5.00	3.80	2.90
LP38856S-1.2-ND	1.2V, 3A, LDO Linear Regulator*	TO-263-5	5.00	3.80	2.90
LP38856T-0.8-ND	0.8V, 3A, LDO Linear Regulator*	TO-220-5	5.00	3.80	2.90
LP38856T-1.2-ND	1.2V, 3A, LDO Linear Regulator*	TO-220-5	5.00	3.80	2.90
LP38858T-0.8-ND	0.8V, 1.5A, LDO Linear Regulator*	TO-220-5	2.73	2.08	1.59
LP38858T-1.2-ND	1.2V, 1.5A, LDO Linear Regulator*	TO-220-5	2.73	2.08	1.59
LP38859S-0.8-ND	0.8V, 3A, LDO Linear Regulator*	TO-263-5	5.00	3.80	2.90
LP38859S-1.2-ND	1.2V, 3A, LDO Linear Regulator*	TO-263-5	5.00	3.80	2.90
LP38859T-0.8-ND	0.8V, 3A, LDO Linear Regulator*	TO-220-5	5.00	3.80	2.90
LP38859T-1.2-ND	1.2V, 3A, LDO Linear Regulator*	TO-220-5	5.00	3.80	2.90
LP39542TLCT-ND	Advanced Lighting Management Unit*	36-microSMD	5.00	3.80	2.90
LP39542TLTR-ND	Advanced Lighting Management Unit*	36-microSMD		665.00/250	
LP55271TLCT-ND	Tiny LED Driver for Camera Flash, 4 LEDs with I²C Programmability*	30-microSMD	4.53	3.44	2.63
LP55271TLTR-ND	Tiny LED Driver for Camera Flash, 4 LEDs with I²C Programmability*	30-microSMD		601.83/250	
LPC660AIM-ND	Low Power Quad CMOS Op Amp, A Grade*	14-SOIC	3.05	2.32	1.77
LPC660IM-ND	Low Power Quad CMOS Op Amp	14-SOIC	2.98	2.21	1.64
LPC661IM-ND	Low Power CMOS Op Amp*	8-SOIC	2.08	1.55	1.14
LPC662AIM-ND	Low Power Dual CMOS Op Amp, A Grade*	8-SOIC	2.55	1.94	1.48
LPC662IM-ND	Low Power Quad CMOS Op Amp	8-SOIC	2.48	1.84	1.36
LPV321M5CT-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp*	SOT-23-5	1.11	.81	.59
LPV321M5TR-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp*	SOT-23-5		345.80/1,000	
LPV321M7CT-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp*	SC70-5	1.11	.81	.59
LPV321M7TR-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp*	SC70-5		345.80/1,000	
LPV324M-ND	Quad General Purpose Low Volt, LP, R/R Out Op Amp*	14-SOIC	1.43	1.05	.76
LPV324MT-ND	Quad General Purpose Low Volt, LP, R/R Out Op Amp*	14-TSSOP	1.47	1.08	.79
LPV358M-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp*	8-SOIC	1.20	.88	.64
LPV358MMCT-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-MSOP	1.20	.88	.64
LPV358MMTR-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-MSOP		416.00/1,000	
LPV511MGCT-ND	880nA, R/R Input and Output Op Amp*	SC70-5	1.61	1.18	.86
LPV511MGTR-ND	880nA, R/R Input and Output Op Amp*	SC70-5		556.40/1,000	
LPV531MKCT-ND	Programmable Micropower CMOS Input, R/R Output Op Amp*	TSOT-23-6	1.61	1.18	.86
LPV531MKTR-ND	Programmable Micropower CMOS Input, R/R Output Op Amp*	TSOT-23-6		556.40/1,000	
LPV7215MFCT-ND	1.8V Micropower, CMOS Input, Rail-to-Rail, Push Pull Output Comparator*	SOT-23-5	1.75	1.29	.94
LPV7215MFTR-ND	1.8V Micropower, CMOS Input, Rail-to-Rail, Push Pull Output Comparator*	SOT-23-5		605.80/1,000	
LPV7215MGCT-ND	Micropower, CMOS Input, R/R Push-Pull Output Comparator*	SC70-5	1.75	1.29	.94
LPV7215MGTR-ND	Micropower, CMOS Input, R/R Push-Pull Output Comparator*	SC70-5		605.80/1,000	
MAX660M-ND	Switch Capacitor Volt Converter*	8-SOIC	1.58	1.18	.87
MCP809M3-4.63CT-ND	4.63V, Microprocessor Reset Circuit*	SOT-23	.84	.61	.44
MCP809M3-4.63TR-ND	4.63V, Microprocessor Reset Circuit*	SOT-23		261.80/1,000	
MF10CCN-ND	General Purpose Dual Active Filter*	20-Dip	4.45	3.39	2.59
MF10CCWM-ND	Universal Monolithic Dual Switched Capacitor Filter	20-SOIC	3.48	2.65	2.02
MM5452V-ND	Liquid Crystal Display Driver, 32 Segments*	44-PLCC	5.95	4.53	3.46
MM5453V-ND	Liquid Crystal Display Driver, 32 Segments*	44-PLCC	4.80	3.65	2.79
MM5483N-ND	Liquid Crystal Display Driver, 31 Segments*	40-Dip	5.60	4.26	3.25
MM145453V-ND	Liquid Crystal Display Driver, 33 Segments*	44-PLCC	5.33	4.05	3.09
SCAN15MB200TSQCT-ND	Dual, 1.5Gbps 2:1/1:2 LVDS Mux/Buffer*	48-LLP	10.48	8.29	6.64
SCAN15MB200TSQTR-ND	Dual, 1.5Gbps 2:1/1:2 LVDS Mux/Buffer*	48-LLP		1584.33/250	
SCAN90CP02VY-ND	1.5Gbps 2x2 LVDS Crosspoint Switch*	32-LQFP	5.86	4.64	3.72
SCAN90CP02SPCT-ND	1.5Gbps 2x2 LVDS Crosspoint Switch*	28-LLP	5.86	4.64	3.72
SCAN90CP02SPTR-ND	1.5Gbps 2x2 LVDS Crosspoint Switch*	28-LLP		3459.60/1,000	
SCAN92LV090SLC-ND	9 Ch. LVDS Transceiver with Boundary SCAN	64-FBGA	9.68	7.66	6.14
SCAN92LV090VEH-ND	9 Ch. LVDS Transceiver with Boundary SCAN*	64-LQFP	9.58	7.57	6.07
SCAN12100TYA-ND	1228.8 and 614.4Mbps CPRI SerDes*	100-TQFP	16.71	14.33	12.71
SCAN16512ASM-ND	Tri-St. Low Volt. Universal 16-Bit IEEE 1149.1 Bus Transcvr	64-FBGA	7.22	5.72	4.58
SCAN16602SM-ND	LV Universal 16-Bit IEEE 1149.1 Bus Transceiver*	64-FBGA	5.36	4.24	3.40
SCAN25100TYA-ND	2457.6, 1228.8, and 614.4 Mbps CPRI Serializer/Deserializer*	100-TQFP	19.20	17.92	16.64
SCAN90004TVS-ND	4-Channel LVDS Buffer/Repeater*	48-TQFP	7.48	5.91	4.74
SCAN162512ASM-ND	Tri-State Low Voltage Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	7.22	5.72	4.58
SCAN162602SM-ND	Low Volt. Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	5.36	4.24	3.40
SCAN921023SLC-ND	20-66MHz, 10-Bit Serializer with IEEE 1149.1 JTAG and BIST	49-FBGA	9.58	7.57	6.07
SCAN921025HSM-ND	High Temperature 20-80MHz 10-Bit Bus LV SerDes*	49-BGA	9.98	7.89	6.32
SCAN921025SLC-ND	30-80MHz 10-Bit Serializer with IEEE 1149.1 JTAG and BIST	49-FBGA	9.58	7.57	6.07
SCAN921224SLC-ND	20-66MHz, 10-Bit Deserializer with IEEE 1149.1 JTAG and BIST*	49-FBGA	9.58	7.57	6.07
SCAN921226HSM-ND	High Temp. 20-80MHz 10-Bit Bus LVDS SerDes*	49-BGA	9.98	7.89	6.32
SCAN921226SLC-ND	30-80MHz 10-Bit Deserializer with IEEE 1149.1 JTAG and BIST	49-FBGA	9.58	7.57	6.07
SCAN921260UJB-ND	X6 1:10 Deserializer with IEEE 1149.1 JTAG and BIST	196-LBGA	25.65	23.94	22.23
SCAN921821TSM-ND	Dual 18-Bit Serializer with Pre-Emphasis, IEEE 1149.1 (JTAG), and AT-Speed BIST*	100-FBGA	13.30	11.40	10.11
SCAN926260TUF-ND	X6 1:10 Bus LVDS Deserializer w/IEEE 1149.1 and BIST	196-LBGA	25.65	23.94	22.23
SCAN928028TUF-ND	8-Channel, 10:1 Serializer*	196-LBGA	25.65	23.94	22.23
SCANH16602SM-ND	LV Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	5.36	4.24	3.40
SCANH162602SM-ND	LV Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	5.36	4.24	3.40
SCANSTA101SM-ND	Low Voltage IEEE 1149.1 STA Master*	49-FBGA	14.14	12.12	10.75
SCANSTA111MT-ND	Enhanced SCAN Bridge, Multidrop Addressable IEEE 1149.1 JTAG Port*	48-TSSOP	8.59	6.79	5.44
SCANSTA111SM-ND	Enhanced SCAN Bridge, Multidrop Addressable IEEE 1149.1 JTAG Port*	49-FBGA	9.07	7.18	5.75
SCANSTA112SM-ND	7-Port Multidrop IEEE 1149.1 JTAG Mux*	100-FBGA	9.49	8.13	7.21
SCANSTA112VS-ND	7-Port Multidrop IEEE 1149.1 JTAG Mux*	100-TQFP	9.49	8.13	7.21
SCANSTA476TSDCT-ND	8-Input IEEE 1149.1 Analog Voltage Monitor*	16-LLP	5.35	4.07	3.11
SCANSTA476TSDTR-ND	8-Input IEEE 1149.1 Analog Voltage Monitor*	16-LLP		2696.40/1,000	
TL082CM-ND	Wide Bandwidth Dual JFET Input Op Amp*	8-SOIC	1.21	.89	.65
TL082CMXTR-ND	Wide Bandwidth Dual JFET Input Op Amp*	8-SOIC		1029.56/2,500	
TL082CPNS-ND	Bi-FET Dual Op Amp*	8-Dip	1.61	1.19	.86
USBN9603-28M-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support*	28-SOIC	5.70	4.34	3.31
USBN9603SLBXCT-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-Laminate	5.63	4.45	3.57
USBN9603SLBXTR-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-Laminate		8174.00/2,500	
USBN9604SLBXCT-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-CSP	5.36	4.24	3.40
USBN9604SLBXTR-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-CSP		7777.50/2,500	

National Semiconductor TELECOMMUNICATIONS ICs

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TP3054N-ND	Enhanced Serial Interface CODEC Filter*	16-Dip	5.53	4.20	3.21
TP3054WM-ND	Enhanced Serial Interface CODEC Filter*	16-SOIC	4.55	3.46	2.64
TP3410J304-ND	ISDN Basic Access Echo-Cancelling 2B1Q U Transceiver	28-Dip	31.05	28.98	26.91
TP3420AV308-ND	ISDN S/T Interface Device	20-PLCC	11.53	9.89	8.77

National Semiconductor UARTs

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PC16550DN-ND	UART*	40-Dip	7.20	5.70	4.57
PC16550DV-ND	UART*	44-PLCC	6.66	5.27	4.22
PC16552DV-ND	Dual UART*	44-PLCC	8.51	6.73	5.39
PC16552DVXTR-ND	Dual UART	44-PLCC		2531.25/500	

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Microsemi INTEGRATED PRODUCTS

APPLICATION SPECIFIC INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX1554CM-ND	16V, Ultra-Low Start-Up Current, Current-Mode PWM*	8-Dip	2.07	1.89	1.76
LX1562IM-ND	13.1V, Second Generation Power Factor Controller	8-Dip	2.07	1.89	1.76
LX1563IDM-ND	9.8V, Second Generation Power Factor Controller*	8-SOIC	2.19	2.00	1.86
LX1671CLQ-ND	Multiple Output LoadSHARE™ PWM*	38-MLPQ	5.68	5.19	4.82
LX1672-03CPW-ND	Multiple Output LoadSHARE™ PWM*	28-TSSOP	4.49	4.10	3.81
LX1672-05CPW-ND	Multiple Output LoadSHARE™ PWM	28-TSSOP	4.49	4.10	3.81
LX1676CPW-ND	Mobile AMD Athlon™ VRM Controller*	38-TSSOP	6.34	5.69	4.88
LX1688CPW-ND	Multiple Lamp CCFL Controller*	24-TSSOP	3.86	3.47	2.97
LX1688IPW-ND	Multiple Lamp CCFL Controller*	24-TSSOP	7.31	6.57	5.63
LX1722CDB-ND	Class-D Stereo Power Amp Controller*	44-QSOP	8.99	8.07	6.92
LX1725ILQ-ND	15W Stereo Class-D Amp* ***NEW!***	32-MLPQ	8.39	7.53	6.45
LX1741CDU-ND	High Efficiency High Voltage Boost Controller*	8-MSOP	1.56	1.40	1.20
LX1742CDU-ND	High Efficiency High Voltage Boost Controller*	8-MSOP	1.91	1.72	1.47
LX2201CLQ-ND	USB Li-Ion Battery Charger*	20-MLP	3.61	3.24	2.78
LX2202 EVAL-ND	Evaluation Board for USB Li-Ion Battery Charger	—	75.00	—	—
LX2206CT-ND	Dual Level Li-Ion Battery Charger*	10-MLPD	1.31	1.18	1.01
LX2206TR-ND	Dual Level Li-Ion Battery Charger*	10-MLPD	2613.00/3,000		
LX5250CDBCT-ND	9-Line Multimode SCSI Terminator	36-QSOP	3.90	3.50	3.00
LX5250CPW-ND	9-Line Multimode SCSI Terminator	28-TSSOP	3.90	3.50	3.00
LX5251CPW-ND	9-Line Multimode SCSI Terminator*	24-TSSOP	3.90	3.50	3.00
LX5255CPW-ND	9-Line LVD SCSI Terminator	24-TSSOP	3.90	3.50	3.00
LX5261CDP-ND	27-Line LVD SCSI Source/Sink Regulator	16-SOIC	4.60	4.20	3.90
LX6431ACDM-ND	Precision Programmable Reference*	8-SOIC	.90	.82	.77
LX9501G-ND	Input-Connector Cable Assembly*	—	4.88	4.38	3.75
MC33064DMCT-ND	Undervoltage Sensing Circuit*	8-SOIC	1.07	.97	.83
MC33064DMTR-ND	Undervoltage Sensing Circuit*	8-SOIC	1787.50/2,500		
SG2524BDW-ND	Regulating Pulse Width Modulator	16-SOIC	5.18	4.73	4.39
SG2543DW-ND	Power Supply Output Supervisory Circuit	16-SOIC	12.08	11.03	10.24
SG2842DM-ND	Current Mode PWM Controller*	8-SOIC	3.80	3.47	3.22
SG3524BDW-ND	Regulating Pulse Width Modulator	16-SOIC	4.60	4.20	3.90
SG3543DW-ND	Power Supply Output Supervisory Circuit	16-SOIC	5.64	5.15	4.78
SG3842DM-ND	Current Mode PWM Controller*	8-SOIC	1.61	1.47	1.37
UC2842AD-ND	Current Mode PWM Controller*	14-SOIC	4.03	3.68	3.42

Microsemi INTEGRATED PRODUCTS

LIGHT APPLICATIONS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX1970IDU-ND	Visible Light Sensor*	8-MSOP	2.34	2.10	1.80
LX1970MINI EVAL-ND	Mini Control Board*	—	9.75	8.75	7.50
LX1971IDU-ND	Wide Range Visible Light Sensor*	8-MSOP	4.19	3.77	3.23
LX1972IBCCT-ND	Ambient Light Detector*	1206	1.44	1.30	1.11
LX1972IBCTR-ND	Ambient Light Detector*	1206	2886.00/3,000		
LX1973AIDU-ND	Automotive Light Sensor*	8-MSOP	5.04	4.60	4.28
LX1990-02 EVAL-ND	Dual Programmable LED Driver Evaluation Board	—	39.00	—	—
LX1990-03EVAL-ND	Dual Programmable LED Driver Evaluation Board	—	39.00	—	—
LX1990ILM-ND	Dual Programmable LED Current Sink*	6-MLP	1.17	1.05	.90
LX1991 EVAL KIT-ND	Six Output LED Driver Evaluation Board*	—	48.75	—	—
LX1991ILQ-ND	Six Output Programmable LED Current Sink*	16-MLPQ	2.44	2.19	1.88
LX1992CLM-ND	High Efficiency LED Driver*	8-MLP	1.38	1.25	1.07
LX1993CDU-ND	High Efficiency LED Driver*	8-MSOP	1.91	1.72	1.47
LX1995-1-CSG-ND	Miniature LED Driver*	5-TSOT	1.62	1.46	1.25

Microsemi INTEGRATED PRODUCTS

PROTECTION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX7001CLP-ND	Transient Immune Undervoltage Sensing Circuit*	TO-92	1.04	.95	.88
LX7001ILP-ND	Transient Immune Undervoltage Sensing Circuit	TO-92	1.15	1.05	.98
LX7201-15ISF-ND	EMI Filter/ESD Protection for Down Stream USB Ports	SOT-23-6	.92	.83	.71
LX7202-15ISF-ND	EMI Filter/ESD Protection for Up Stream USB Ports	SOT-23-6	.92	.83	.71
LX7203-15ISM-ND	EMI Filter/ESD Protection for Up Stream USB Ports*	SC70-6L	1.19	1.07	.92
LX7203-22ISM-ND	EMI Filter/ESD Protection for Up Stream USB Ports*	SC70-6L	1.19	1.07	.92
MC33164-3LP-ND	3V, Undervoltage Sensing Circuit	TO-92	1.07	.97	.83
MC33164LP-ND	5V, Undervoltage Sensing Circuit	TO-92	1.17	1.05	.90
MC34064DM-ND	Undervoltage Sensing Circuit*	8-SOIC	.98	.88	.75
MC34064LP-ND	Undervoltage Sensing Circuit*	TO-92	.88	.79	.68
MC34164-3DM-ND	3V, Undervoltage Sensing Circuit*	8-SOIC	.98	.88	.75
MC34164-3LP-ND	3V, Undervoltage Sensing Circuit	TO-92	.88	.79	.68
MC34164DM-ND	Undervoltage Sensing Circuit*	8-SOIC	1.17	1.05	.90

Microsemi INTEGRATED PRODUCTS

VOLTAGE REGULATORS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX432CSC-ND	Low Voltage Adj. Precision Shunt Regulator*	SOT-23	.60	.55	.51
LX432ISC-ND	Low Voltage Adj. Precision Shunt Regulator*	SOT-23	1.04	.95	.88
LX6431ACLP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	TO-92	.85	.78	.73
LX6431AIDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	8-SOIC	1.10	1.01	.94
LX6431AILP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	TO-92	1.05	.96	.89
LX6431BCDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	8-SOIC	1.04	.95	.88
LX6431BIDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	8-SOIC	1.27	1.16	1.08
LX6431BILP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	TO-92	1.22	1.12	1.04
LX6431CDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	8-SOIC	.74	.68	.63
LX6431CLP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	TO-92	.69	.63	.59
LX6431IDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator*	8-SOIC	.90	.82	.77
LX6431ILP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	TO-92	.85	.78	.72
LX8117-00CST-ND	Adj., 0.8A LDO Positive Regulator	SOT-223	1.96	1.79	1.66
LX8117-25CST-ND	2.5V, 0.8A LDO Positive Regulator	SOT-223	1.96	1.79	1.66
LX8117-28CST-ND	2.85V, 0.8A LDO Positive Regulator*	SOT-223	1.96	1.79	1.66
LX8117-33CDD-ND	3.3V, 0.8A LDO Positive Regulator*	TO-263	2.88	2.63	2.44
LX8117-33CDT-ND	3.3V, 0.8A LDO Positive Regulator*	D-Pak	1.96	1.79	1.66
LX8117-33CST-ND	3.3V, 0.8A LDO Positive Regulator*	SOT-223	1.96	1.79	1.66
LX8117A-00CDD-ND	Adj., 1A LDO Positive Regulator*	TO-263	2.88	2.63	2.44
LX8117A-00CST-ND	Adj., 1A LDO Positive Regulator*	SOT-223	1.96	1.79	1.66
LX8117A-25CST-ND	2.5V, 1A LDO Positive Regulator	SOT-223	1.96	1.79	1.66
LX8117A-28CDT-ND	2.85V, 1A LDO Positive Regulator*	D-Pak	1.96	1.79	1.66
LX8117A-28CST-ND	2.85V, 1A LDO Positive Regulator	SOT-223	1.96	1.79	1.66
LX8117A-33CST-ND	3.3V, 1A LDO Positive Regulator*	SOT-223	1.96	1.79	1.66
LX8117B-00CDD-ND	Adj., 1.2A LDO Positive Regulator*	TO-263	3.11	2.84	2.64
LX8117B-00CST-ND	Adj., 1.2A LDO Positive Regulator	SOT-223	2.19	2.00	1.86
LX8211-00ISECT-ND	Adj., 150mA CMOS LDO Regulator*	SOT-23-5	.60	.55	.47
LX8211-00ISETR-ND	Adj., 150mA CMOS LDO Regulator*	SOT-23-5	1092.00/3,000		
LX8211-25ISE-ND	2.5V, 150mA CMOS LDO Regulator*	SOT-23-5	.55	.49	.42
LX8211-30ISE-ND	3V, 150mA CMOS LDO Regulator*	SOT-23-5	.55	.49	.42
LX8221-DIDU-ND	2.7V/Adj., Dual 150mA CMOS LDO Regulator*	10-MSOP	2.54	2.28	1.95
LX8221-GIDU-ND	3V/Adj., Dual 150mA CMOS LDO Regulator*	10-MSOP	2.54	2.28	1.95
LX8384-00CDD-ND	Adj., 5A LDO Positive Regulator*	TO-263	5.18	4.73	4.39
LX8580A-00CDD-ND	Adj., 7.5A LDO Positive Regulator	TO-263-5	1.50	1.37	1.27
LX8585-15CDD-ND	1.5V, 4.6A LDO Positive Regulator*	TO-263	5.75	5.25	4.88
LX8817-25CDF-ND	2.5V/Adj., Dual Channel 2.5A LDO Regulator	7-SPAK	2.34	2.10	1.80
SG117AK-ND	1.5A, Three Terminal Adj. Voltage Regulator	TO-3	29.60	26.64	22.20
SG117AT-ND	1.5A, Three Terminal Adj. Voltage Regulator	TO-39	26.60	23.94	19.95
SG117K-ND	1.5A, Three Terminal Adj. Voltage Regulator	TO-3	24.00	21.60	18.00
SG117T-ND	1.5A, Three Terminal Adj. Voltage Regulator	TO-39	20.00	18.00	15.00
SG137AT-ND	1.5A Negative Adjustable Regulator	TO-39	37.00	33.30	27.75
SG137T-ND	1.5A Negative Adjustable Regulator	TO-39	18.20	16.38	13.65
SG1524BJ-ND	Regulating Pulse Width Modulator	16-Dip	18.00	16.20	13.50
SG1524J-ND	Regulating Pulse Width Modulator	16-Dip	18.00	16.20	13.50
SG1525AJ-ND	Regulating Pulse Width Modulator	16-Dip	20.00	18.00	15.00
SG1526BJ-ND	Regulating Pulse Width Modulator	18-Dip	29.20	26.28	21.90
SG1526J-ND	Regulating Pulse Width Modulator	18-Dip	24.40	21.96	18.30
SG1825CJ-ND	High Speed Current Mode PWM	16-Dip	40.00	36.00	30.00
SG1842Y-ND	Current Mode PWM Controller	8-Dip	16.00	14.40	12.00
SG1843Y-ND	Current Mode PWM Controller	8-Dip	16.00	14.40	12.00
SG1844Y-ND	Current Mode PWM Controller	8-Dip	16.00	14.40	12.00
SG1845Y-ND	Current Mode PWM Controller	8-Dip	16.00	14.40	12.00
SG1846J-ND	Current Mode PWM Controller	16-Dip	22.00	19.80	16.50
SG2524BN-ND	Regulating Pulse Width Modulator*	16-Dip	4.14	3.78	3.51
SG2524D-ND	Regulating Pulse Width Modulator*	16-SOIC	3.68	3.36	3.12
SG2524N-ND	Regulating Pulse Width Modulator*	16-Dip	3.91	3.57	3.32
SG2525ADW-ND	Regulating Pulse Width Modulator*	16-SOIC	6.90	6.30	5.85
SG2525AN-ND	Regulating Pulse Width Modulator*	16-Dip	7.48	6.83	6.34
SG2526BDW-ND	Regulating Pulse Width Modulator*	18-SOIC	10.12	9.24	8.58
SG2526BN-ND	Regulating Pulse Width Modulator	18-Dip	9.78	8.93	8.29
SG2526DW-ND	Regulating Pulse Width Modulator	18-SOIC	14.38	13.13	12.19
SG2526N-ND	Regulating Pulse Width Modulator	18-Dip	9.20	8.40	7.80
SG2543N-ND	Power Supply Output Supervisory Circuit	16-Dip	8.05	7.35	6.83
SG2842M-ND	Current Mode PWM Controller	8-Dip	3.80	3.47	3.22
SG2843DM-ND	Current Mode PWM Controller	8-SOIC	3.80	3.47	3.22
SG2843M-ND	Current Mode PWM Controller	8-Dip	3.80	3.47	3.22
SG2844DM-ND	Current Mode PWM Controller	8-SOIC	3.80	3.47	3.22
SG2844M-ND	Current Mode PWM Controller	8-Dip	3.80	3.47	3.22
SG2845DM-ND	Current Mode PWM Controller	8-SOIC	3.80	3.47	3.22
SG2845M-ND	Current Mode PWM Controller	8-Dip	3.80	3.47	3.22
SG2846DW-ND	Current Mode PWM Controller	16-SOIC	7.36	6.72	6.24
SG2846N-ND	Current Mode PWM Controller	16-Dip	7.13	6.51	6.05
SG3524D-ND	Regulating Pulse Width Modulator	16-SOIC	1.84	1.68	1.56
SG3524N-ND	Regulating Pulse Width Modulator	16-Dip	1.15	1.05	.98
SG3525ADW-ND	Regulating Pulse Width Modulator	16-SOIC	2.07	1.89	1.76
SG3525AN-ND	Regulating Pulse Width Modulator	16-Dip	1.84	1.68	1.56
SG3526BDW-ND	Regulating Pulse Width Modulator	18-SOIC	4.49	4.10	3.81
SG3526BN-ND	Regulating Pulse Width Modulator	18-Dip	4.26	3.89	3.61
SG3526DW-ND	Regulating Pulse Width Modulator	18-SOIC	4.14	3.78	3.51
SG3526BN-ND	Regulating Pulse Width Modulator	18-Dip	4.26	3.89	3.61
SG3526N-ND	Regulating Pulse Width Modulator	18-Dip	3.91	3.57	3.32
SG3543N-ND	Power Supply Output Supervisory Circuit	16-Dip	5.18	4.73	4.39
SG3842M-ND	Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
SG3843DM-ND	Current Mode PWM Controller	8-SOIC	1.61	1.47	1.37
SG3843M-ND	Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
SG3844DM-ND	Current Mode PWM Controller	8-SOIC	1.61	1.47	1.37
SG3844M-ND	Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
SG3845DM-ND	Current Mode PWM Controller	8-SOIC	1.61	1.47	1.37
SG3845M-ND	Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
SG3846DW-ND	Current Mode PWM Controller	16-SOIC	4.14	3.78	3.51
SG7805AK-ND	5V Positive Fixed Voltage Regulator	TO-3	24.00	21.60	18.00
SG7805AT-ND	5V Positive Fixed Voltage Regulator	TO-39	20.00	18.00	15.00
SG7805K-ND	5V Positive Fixed Voltage Regulator	TO-3	24.00	21.60	18.00
SG7805T-ND	5V Positive Fixed Voltage Regulator	TO-39	20.00	18.00	15.00
SG7812AK-ND	12V Positive Fixed Voltage Regulator	TO-3	24.00	21.60	18.00
SG7812AT-ND	12V Positive Fixed Voltage Regulator	TO-39	20.00	18.00	15.00
SG7812K-ND	12V Positive Fixed Voltage Regulator	TO-3	24.00	21.60	18.00
SG7812T-ND	12V Positive Fixed Voltage Regulator	TO-39	20.00	18.00	15.00
SG7815AK-ND	15V Positive Fixed Voltage Regulator	TO-3	24.00	21.60	18.00
SG7815AT-ND	15V Positive Fixed Voltage Regulator	TO-39	20.00	18.00	15.00
SG7815K-ND	15V Positive Fixed Voltage Regulator	TO-3	24.00	21.60	18.00
SG7815T-ND	15V Positive Fixed Voltage Regulator	TO-39	20.00	18.00	15.00
SG7905AK-ND	5V Negative Fixed Voltage Regulator	TO-3	24.00	21.60	18.00
SG7905AT-ND	5V Negative Fixed Voltage Regulator	TO-39	20.00	18.00	15.00
SG7905K-ND	5V Negative Fixed Voltage Regulator	TO-3	24.00	21.60	18.00
SG7905T-ND	5V Negative Fixed Voltage Regulator	TO-39	20.00	18.00	15.00
SG7912AK-ND	12V Negative Fixed Voltage Regulator	TO-3	24.00	21.60	18.00
SG7912AT-ND	12V Negative Fixed Voltage Regulator	TO-39	20.00	18.00	15.00
SG7912K-ND	12V Negative Fixed Voltage Regulator	TO-3	24.00	21.60	18.00
SG7912T-ND	12V Negative Fixed Voltage Regulator	TO-39	20.00	18.00	15.00
SG7915AK-ND	15V Negative Fixed Voltage Regulator	TO-3	24.00	21.60	18.00
SG7915AT-ND	15V Negative Fixed Voltage Regulator	TO-39	20.00	18.00	15.00
SG7915K-ND	15V Negative Fixed Voltage Regulator	TO-3	24.00	21.60	18.00
TL431ACDM-ND	Precision Programmable Reference	8-SOIC	.69	.63	.59
TL431AIDM-ND	Precision Programmable Reference	8-SOIC	.85	.78	.73
TL431AILP-ND	Precision Programmable Reference	TO-92	.76	.70	.65
TL431BCDM-ND	Precision Programmable Reference	8-SOIC	1.45	1.33	1.23
TL431BIDM-ND	Precision Programmable Reference	8-SOIC	1.77	1.62	1.51
TL431CDM-ND	Precision Programmable Reference	8-SOIC	.58	.53	.49
TL431IDM-ND	Precision Programmable Reference	8-SOIC	.71	.66	.61
UC2842ADM-ND	16V, Current Mode PWM Controller	8-SOIC	4.03	3.68	3.42
UC2842AM-ND	16V, Current Mode PWM Controller	8-Dip	3.91	3.57	3.32
UC2843ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	4.03	3.68	3.42
UC2843AM-ND	8.4V, Current Mode PWM Controller	8-Dip	3.91	3.57	3.32
UC2844AD-ND	16V, Current Mode PWM Controller	14-SOIC	4.03	3.68	3.42
UC2844ADM-ND	16V, Current Mode PWM Controller	8-SOIC	4.03	3.68	3.42
UC2844AM-ND	16V, Current Mode PWM Controller	8-Dip	3.91	3.57	3.32
UC2845AD-ND	8.4V, Current Mode PWM Controller	14-SOIC	4.03	3.68	3.42
UC2845ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	4.03	3.68	3.42
UC2845AM-ND	8.4V, Current Mode PWM Controller	8-Dip	3.91	3.57	3.32

***** ***RoHS Compliant***

(Continued)

VOLTAGE REGULATORS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
UC3842AD-ND	16V, Current Mode PWM Controller	14-SOIC	1.61	1.47	1.37
UC3842ADM-ND	16V, Current Mode PWM Controller	8-SOIC	1.73	1.58	1.47
UC3842AM-ND	16V, Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
UC3843ADCT-ND	8.4V, Current Mode PWM Controller	14-SOIC	1.37	1.23	1.05
UC3843ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	1.73	1.58	1.47
UC3843AM-ND	8.4V, Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
UC3844AD-ND	16V, Current Mode PWM Controller	14-SOIC	1.61	1.47	1.37
UC3844ADM-ND	16V, Current Mode PWM Controller	8-SOIC	1.73	1.58	1.47
UC3844AM-ND	16V, Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
UC3845AD-ND	8.4V, Current Mode PWM Controller	14-SOIC	1.61	1.47	1.37
UC3845ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	1.73	1.58	1.47
UC3845AM-ND	8.4V, Current Mode PWM Controller	8-Dip	1.38	1.26	1.17

AMPLIFIERS

Op Amps

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LF398S8-ND	Precision Sample and Hold Amp	8-SOIC	3.25	2.35	1.74
LF398S8#PBF-ND	Precision Sample and Hold Amp*	8-SOIC	3.25	2.35	1.74
LT318AN8-ND	15MHz High-Speed Op Amp	8-Dip	3.38	2.25	1.95
LT318AN8#PBF-ND	15MHz High-Speed Op Amp*	8-Dip	3.38	2.25	1.95
LT1001ACN8#PBF-ND	Single Precision Op Amp*	8-Dip	5.88	3.92	3.40
LT1001CN8-ND	Single Precision Op Amp	8-Dip	2.88	2.10	1.90
LT1001CN8#PBF-ND	Single Precision Op Amp*	8-Dip	2.88	2.10	1.90
LT1001CS8-ND	Single Precision Op Amp	8-SOIC	3.63	2.42	2.15
LT1001CS8#PBF-ND	Single Precision Op Amp*	8-SOIC	3.63	2.42	2.15
LT1002CN#PBF-ND	Dual Matched Precision Op Amp*	14-Dip	5.25	3.50	2.95
LT1006CN8-ND	5V Single Precision Op Amp	8-Dip	2.88	1.92	1.60
LT1006CN8#PBF-ND	5V Single Precision Op Amp*	8-Dip	2.88	1.92	1.60
LT1006S8-ND	5V Single Precision Op Amp	8-SOIC	3.50	2.33	1.95
LT1006S8#PBF-ND	5V Single Precision Op Amp*	8-SOIC	3.50	2.33	1.95
LT1007ACN8#PBF-ND	Single Low Noise, High-Speed, Precision Op Amp*	8-Dip	8.75	5.83	5.00
LT1007CN8-ND	Single Low Noise, High-Speed, Precision Op Amp	8-Dip	3.63	2.42	1.95
LT1007CN8#PBF-ND	Single Low Noise, High-Speed, Precision Op Amp*	8-Dip	3.63	2.42	1.95
LT1007CS8-ND	Single Low Noise, High-Speed, Precision Op Amp	8-SOIC	4.13	2.75	2.15
LT1007CS8#PBF-ND	Single Low Noise, High-Speed, Precision Op Amp*	8-SOIC	4.13	2.75	2.15
LT1007IS8#PBF-ND	Single Low Noise, HS, Op Amp, Ind. Temp.*	8-SOIC	5.63	3.75	3.10
LT1008CN8-ND	Precision Low Noise Op Amp	8-Dip	5.50	3.67	3.10
LT1008CN8#PBF-ND	Precision Low Noise Op Amp*	8-Dip	5.50	3.67	3.10
LT1010CN8-ND	High-Speed 150mA Power Buffer	8-Dip	4.38	2.92	2.50
LT1010CN8#PBF-ND	High-Speed 150mA Power Buffer*	8-Dip	4.38	2.92	2.50
LT1010CT#PBF-ND	High-Speed 150mA Power Buffer*	TO-220-5	5.25	3.49	2.85
LT1012ACN8#PBF-ND	Universal Single Precision Low Noise Op Amp*	8-Dip	7.13	4.75	3.95
LT1012ACS8-ND	Universal Single Precision Low Noise Op Amp	8-SOIC	7.13	5.09	4.19
LT1012ACS8#PBF-ND	Universal Single Precision Low Noise Op Amp*	8-SOIC	7.13	5.09	4.19
LT1012CN8-ND	Universal Single Precision Low Noise Op Amp	8-Dip	5.00	3.33	2.75
LT1012S8-ND	Universal Single Precision Low Noise Op Amp	8-SOIC	6.00	4.00	3.45
LT1012S8#PBF-ND	Universal Single Precision Low Noise Op Amp*	8-SOIC	6.00	4.00	3.45
LT1013ACN8#PBF-ND	Dual Precision Op Amp*	8-Dip	7.13	4.75	3.95
LT1013CN8#PBF-ND	Dual Precision Op Amp, Vos=300µV*	8-Dip	4.25	2.83	2.40
LT1013DN8-ND	Dual Precision Op Amp, Vos=800µV	8-Dip	3.50	2.33	1.95
LT1013DN8#PBF-ND	Dual Precision Op Amp, Vos=800µV*	8-Dip	3.50	2.33	1.95
LT1013DS8-ND	Dual Precision Op Amp, Vos=800µV	8-SOIC	4.00	2.67	2.30
LT1013DS8#PBF-ND	Dual Precision Op Amp, Vos=800µV*	8-SOIC	4.00	2.67	2.30
LT1014ACN-ND	Quad Precision Op Amp	14-Dip	12.75	8.50	7.10
LT1014CNLT-ND	Quad Precision Op Amp, Vos=300µV	14-Dip	9.38	6.25	5.35
LT1014CN#PBF-ND	Quad Precision Op Amp*	14-Dip	9.38	6.25	5.35
LT1014DNLT-ND	Quad Precision Op Amp, Vos=800µV	14-Dip	6.25	4.17	3.60
LT1014DN#PBF-ND	Quad Precision Op Amp*	14-Dip	6.25	4.17	3.60
LT1014DSW-ND	Quad Precision Op Amp	16-SOIC	7.38	4.92	4.15
LT1014DSW#PBF-ND	Quad Precision Op Amp*	16-SOIC	7.38	4.92	4.15
LT1014ISW#PBF-ND	Quad Precision Op Amp*	16-SOIC	9.63	6.42	5.40
LT1022CN8-ND	High-Speed Precision JFET Op Amp	8-Dip	5.00	3.33	2.95
LT1022CN8#PBF-ND	High-Speed Precision JFET Op Amp*	8-Dip	5.00	3.33	2.95
LT1028ACN8-ND	Single, Ultra Low Noise Op Amp	8-Dip	13.13	8.75	7.55
LT1028ACN8#PBF-ND	Single, Ultra Low Noise Op Amp*	8-Dip	13.13	8.75	7.55
LT1028CN8#PBF-ND	Single, Ultra Low Noise Op Amp*	8-Dip	8.63	5.75	4.95
LT1028CS8-ND	Single, Ultra Low Noise Op Amp	8-SOIC	8.63	5.75	4.95
LT1028CS8#PBF-ND	Single, Ultra Low Noise Op Amp*	8-SOIC	8.63	5.75	4.95
LT1037ACN8-ND	Single, Low Noise, High-Speed Precision Op Amp	8-Dip	8.75	5.83	5.00
LT1037ACN8#PBF-ND	Single, Low Noise, High-Speed Precision Op Amp*	8-Dip	8.75	5.83	5.00
LT1037CN8-ND	Single, Low Noise, High-Speed Precision Op Amp	8-Dip	3.63	2.42	1.95
LT1037CN8#PBF-ND	Single, Low Noise, High-Speed Precision Op Amp*	8-Dip	3.63	2.42	1.95
LT1037CS8-ND	Single, Low Noise, High-Speed Precision Op Amp	8-SOIC	4.13	2.75	2.15
LT1037CS8#PBF-ND	Single, Low Noise, High-Speed Precision Op Amp*	8-SOIC	4.13	2.75	2.15
LT1055CN8-ND	Precision High-Speed JFET Op Amp	8-Dip	3.38	2.25	1.95
LT1055CN8#PBF-ND	Precision High-Speed JFET Op Amp*	8-Dip	3.38	2.25	1.95
LT1056CN8#PBF-ND	Precision High-Speed JFET Op Amp*	8-Dip	3.38	2.25	1.95
LT1056S8-ND	Precision High-Speed JFET Op Amp	8-SOIC	4.00	2.67	2.50
LT1056S8#PBF-ND	Precision High-Speed JFET Op Amp*	8-SOIC	4.00	2.67	2.50
LT1057ACN8-ND	Dual Precision JFET Op Amp, 450µV	8-Dip	8.75	5.83	4.95
LT1057ACN8#PBF-ND	Dual Precision JFET Op Amp, 450µV*	8-Dip	8.75	5.83	4.95
LT1057CN8-ND	Dual Precision JFET Op Amp, 600µV	8-Dip	4.50	3.00	2.55
LT1057CN8#PBF-ND	Dual Precision JFET Op Amp, 600µV*	8-Dip	4.50	3.00	2.55
LT1058ACN#PBF-ND	Quad Precision JFET Op Amp*	14-Dip	16.50	11.00	9.55
LT1058CN#PBF-ND	Quad Precision JFET Op Amp*	14-Dip	7.63	5.08	4.35
LT1058ISW-ND	Quad Precision JFET Op Amp	16-SOIC	17.88	11.92	10.30
LT1058ISW#PBF-ND	Quad Precision JFET Op Amp*	16-SOIC	17.88	11.92	10.30
LT1058SW#PBF-ND	Quad Precision JFET Op Amp*	16-SOIC	8.88	5.92	5.00
LT1077ACN8-ND	Micropower Precision Single Op Amp	8-Dip	5.63	3.75	3.20
LT1077ACN8#PBF-ND	Micropower Precision Single Op Amp*	8-Dip	5.63	3.75	3.20
LT1077CN8-ND	Micropower Precision Single Op Amp	8-Dip	3.13	2.08	1.65
LT1077CN8#PBF-ND	Micropower Precision Single Op Amp*	8-Dip	3.13	2.08	1.65
LT1077IS8#PBF-ND	Micropower Precision Single Op Amp*	8-SOIC	4.38	2.91	2.40
LT1077S8-ND	Micropower Precision Single Op Amp	8-SOIC	3.63	2.42	2.05
LT1077S8#PBF-ND	Micropower Precision Single Op Amp*	8-SOIC	3.63	2.42	2.05
LT1078ACN8#PBF-ND	Micropower Precision Dual Op Amp*	8-Dip	9.00	6.00	5.15

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1078CN8-ND	Micropower Precision Dual Op Amp	8-Dip	5.00	3.33	2.80
LT1078CN8#PBF-ND	Micropower Precision Dual Op Amp*	8-Dip	5.00	3.33	2.80
LT1078IN8-ND	Micropower Precision Dual Op Amp	8-Dip	6.50	4.33	3.75
LT1078IN8#PBF-ND	Micropower Precision Dual Op Amp*	8-Dip	6.50	4.33	3.75
LT1078IS8-ND	Micropower Precision Dual Op Amp	8-SOIC	8.38	5.60	4.85
LT1078IS8#PBF-ND	Micropower Precision Dual Op Amp*	8-SOIC	8.38	5.60	4.85
LT1078S8-ND	Micropower Precision Dual Op Amp	8-SOIC	6.50	4.35	3.65
LT1078S8#PBF-ND	Micropower Precision Dual Op Amp*	8-SOIC	6.50	4.35	3.65
LT1079ACN-ND	Micropower Precision Quad Op Amp	14-Dip	11.25	7.50	6.50
LT1079ACN#PBF-ND	Micropower Precision Quad Op Amp*	14-Dip	11.25	7.50	6.50
LT1079CN-ND	Micropower Precision Quad Op Amp	14-Dip	6.25	4.17	3.50
LT1079CN#PBF-ND	Micropower Precision Quad Op Amp*	14-Dip	6.25	4.17	3.50
LT1079IN#PBF-ND	Micropower Precision Quad Op Amp, Ind. Temp.*	14-Dip	7.75	5.17	4.45
LT1079ISW#PBF-ND	Micropower Precision Quad Op Amp, Ind. Temp.*	16-SOIC	10.13	6.75	5.70
LT1079SW-ND	Micropower Precision Quad Op Amp	16-SOIC	8.13	5.42	4.55
LT1079SW#PBF-ND	Micropower Precision Quad Op Amp*	16-SOIC	8.13	5.42	4.55
LT1097CN8-ND	Low Cost, Low Power Precision Op Amp	8-Dip	3.13	2.08	1.80
LT1097CN8#PBF-ND	Low Cost, Low Power Precision Op Amp*	8-Dip	3.13	2.08	1.80
LT1097S8-ND	Low Cost, Low Power Precision Op Amp	8-SOIC	3.38	2.25	1.95
LT1097S8#PBF-ND	Low Cost, Low Power Precision Op Amp*	8-SOIC	3.38	2.25	1.95
LT1112ACN8#PBF-ND	Dual Low Power Precision Op Amp*	8-Dip	6.25	4.17	3.50
LT1112CN8#PBF-ND	Dual Low Power Precision Op Amp*	8-Dip	4.38	2.92	2.45
LT1112IS8-ND	Dual Low Power Precision Op Amp	8-SOIC	5.38	3.57	3.00
LT1112IS8#PBF-ND	Dual Low Power Precision Op Amp*	8-SOIC	5.38	3.57	3.00
LT1112S8-ND	Dual Low Power Precision Op Amp	8-SOIC	4.88	3.25	2.65
LT1112S8#PBF-ND	Dual Low Power Precision Op Amp*	8-SOIC	4.88	3.25	2.65
LT1113CN8#PBF-ND	Dual Low Noise JFET Input Precision Op Amp*	8-Dip	6.00	4.00	3.25
LT1113CS8-ND	Dual Low Noise JFET Input Precision Op Amp	8-SOIC	6.50	4.33	3.55
LT1113CS8#PBF-ND	Dual Low Noise JFET Input Precision Op Amp*	8-SOIC	6.50	4.33	3.55
LT1114ACN-ND	Quad Low Power Precision Op Amp	14-Dip	12.13	8.08	6.50
LT1114CN#PBF-ND	Quad Low Power Precision Op Amp*	14-Dip	8.50	5.67	4.50
LT1114S#PBF-ND	Quad Low Power Precision Op Amp*	16-SOIC	8.88	5.92	4.75
LT1115CN8#PBF-ND	Ultra Low Noise Audio Op Amp*	8-Dip	5.63	3.74	2.95
LT1122CS8#PBF-ND	Fast Settling JFET Input Op Amp*	8-SOIC	5.75	3.83	3.25
LT1122DCN8#PBF-ND	Fast Settling JFET Input Op Amp*	8-Dip	4.50	3.00	2.50
LT1122DS8-ND	Fast Settling JFET Input Op Amp	8-SOIC	4.88	3.25	2.70
LT1122DS8#PBF-ND	Fast Settling JFET Input Op Amp*	8-SOIC	4.88	3.25	2.70
LT1124CN8#PBF-ND	Dual, Low Noise, High-Speed Precision Op Amp*	8-Dip	6.38	4.25	3.65
LT1124CS8-ND	Dual, Low Noise, High-Speed Precision Op Amp	8-SOIC	6.75	4.50	3.85
LT1124CS8#PBF-ND	Dual, Low Noise, High-Speed Precision Op Amp*	8-SOIC	6.75	4.50	3.85
LT1125CN#PBF-ND	Quad, Low Noise, High-Speed Precision Op Amp*	14-Dip	10.50	7.00	5.95
LT1125CSW#PBF-ND	Quad, Low Noise, High-Speed Precision Op Amp*	16-SOIC	11.50	7.67	6.50
LT1126CN8#PBF-ND	Dual, Decompensated, Low Noise, HS Op Amp*	8-Dip	6.38	4.25	3.65
LT1126CS8-ND	Dual, Decompensated, Low Noise, HS Op Amp	8-SOIC	6.75	4.50	3.85
LT1126CS8#PBF-ND	Dual, Decompensated, Low Noise, HS Op Amp*	8-SOIC	6.75	4.50	3.85
LT1127CSW-ND	Quad, Decompensated, Low Noise, HS Op Amp	16-SOIC	11.50	7.67	6.50
LT1127CSW#PBF-ND	Quad, Decompensated, Low Noise, HS Op Amp*	16-SOIC	11.50	7.67	6.50
LT1128ACN8-ND	Single, Low Noise, High-Speed Op Amp	8-Dip	13.13	8.75	7.55
LT1128CN8-ND	Single, Low Noise, High-Speed Op Amp	8-Dip	8.63	5.75	4.95
LT1128CN8#PBF-ND	Single, Low Noise, High-Speed Op Amp*	8-Dip	8.63	5.75	4.95
LT1128CS8#PBF-ND	Single, Low Noise, High-Speed Op Amp*	8-SOIC	8.63	5.75	4.95
LT1169CN8#PBF-ND	Dual Low Noise JFET Op Amp*	8-Dip	7.25	4.83	3.95
LT1169CS8#PBF-ND	Dual Low Noise JFET Op Amp*	8-SOIC	7.75	5.15	4.25
LT1178ACN8-ND	Dual Micropower Precision Dual Op Amp	8-Dip	10.00	6.67	5.60
LT1178CN8-ND	Dual Micropower Precision Dual Op Amp	8-Dip	5.50	3.67	3.00
LT1178CN8#PBF-ND	Dual Micropower Precision Dual Op Amp*	8-Dip	5.50	3.67	3.00
LT1178IN8-ND	Dual Micropower Precision Dual Op Amp, Ind. Temp.	8-Dip	6.88	4.58	3.95
LT1178IN8#PBF-ND	Dual Micropower Prec. Dual Op Amp, Ind. Temp.*	8-Dip	6.88	4.58	3.95
LT1178S8#PBF-ND	Dual Micropower Precision Dual Op Amp*	8-SOIC	7.00	4.65	3.85
LT1179ACN-ND	Quad Micropower Precision Op Amp	14-Dip	12.38	8.25	6.90
LT1179CN#PBF-ND	Quad Micropower Precision Op Amp*	14-Dip	6.88	4.58	3.90
LT1179SW-ND	Quad Micropower Precision Op Amp	16-SOIC	8.75	5.83	5.00
LT1179SW#PBF-ND	Quad Micropower Precision Op Amp*	16-SOIC	8.75	5.83	5.00
LT1191CN8-ND	Single, Ultra High-Speed Video Op Amp	8-Dip	3.25	2.17	1.73
LT1191CS8-ND	Single, Ultra High-Speed Video Op Amp	8-SOIC	3.75	2.50	1.95
LT1191CS8#PBF-ND	Single, Ultra High-Speed Video Op Amp*	8-SOIC	3.75	2.50	1.95
LT1195CN8-ND	Low Power, High-Speed Op Amp	8-Dip	3.25	2.17	1.73
LT1206CN8#PBF-ND	250mA Out, 60MHz Current Feedback Amp*	8-Dip	6.25	4.17	3.45
LT1206CR#PBF-ND	250mA Out, 60MHz Current Feedback Amp*	7-DD	8.38	5.57	4.45
LT1206CS8-ND	250mA Out, 60MHz Current Feedback Amp	8-SOIC	7.25	4.83	3.95
LT1206CS8#PBF-ND	250mA Out, 60MHz Current Feedback Amp*	8-SOIC	7.25	4.83	3.95
LT1206CT7-ND	250mA Out, 60MHz Current Feedback Amp	TO-220-7	8.38	5.57	4.45
LT1206CT7#PBF-ND	250mA Out, 60MHz Current Feedback Amp*	TO-220-7	8.38	5.57	4.45
LT1207CS-ND	Dual 250mA Out, 60MHz Current Feedback Amp	16-SOIC	12.88	8.60	7.15
LT1207CS#PBF-ND	Dual 250mA Out, 60MHz Current Feedback Amp*	16-SOIC	12.88	8.60	7.15
LT1208CN8-ND	Dual, High-Speed Op Amp	8-Dip	7.75	5.17	4.45
LT1208CS8#PBF-ND	Dual, High-Speed Op Amp*	8-SOIC	8.75	5.83	5.00
LT1210CT7#PBF-ND	1.1A, 35MHz Current Feedback Amp*	TO-220-7	13.13	8.72	7.10
LT1211CN8#PBF-ND	14MHz, Single Supply, Dual Precision Op Amp*	8-Dip	6.13	4.07	3.07
LT1211CS8#PBF-ND	14MHz, Single Supply, Dual Precision Op Amp*	8-SOIC	6.63	4.40	3.32
LT1211IS8#PBF-ND	14MHz, Single, Dual Prec. Op Amp, Ind. Temp.*	8-SOIC	7.50	4.98	3.75
LT1212CN#PBF-ND	14MHz, Single Supply, Quad Precision Op Amp*	14-Dip	11.00	7.31	5.50
LT1212CS-ND	14MHz, Single Supply, Quad Precision Op Amp	16-SOIC	11.88	7.89	5.94
LT1212CS#PBF-ND	14MHz, Single Supply, Quad Precision Op Amp*	16-SOIC	11.88	7.89	5.94
LT1212IS-ND	14MHz, Single, Quad Prec. Op Amp, Ind. Temp.	16-SOIC	13.25	8.80	6.63
LT1212IS#PBF-ND	14MHz, Single, Quad Precision Op Amp, Industrial Temp.*	16-SOIC	13.25	8.80	6.63
LT1213CN8#PBF-ND	28MHz, Single Supply, Dual Precision Op Amp*	8-Dip	6.13	4.07	3.07
LT1213CS8-ND	28MHz, Single Supply, Dual Precision Op Amp	8-SOIC	6.63	4.40	3.32
LT1213CS8#PBF-ND	28MHz, Single Supply, Dual Precision Op Amp*	8-SOIC	6.63	4.40	3.32
LT1214CN#PBF-ND	28MHz, Single Supply, Quad Precision Op Amp*	14-Dip	11.00	7.31	5.50
LT1214CS#PBF-ND	28MHz, Single Supply, Quad Precision Op Amp*	16-SOIC	11.88	7.89	5.94
LT1215CN8-ND	23MHz, Single Supply, Dual Precision Op Amp	8-Dip	6.13	4.07	3.07
LT1215CN8#PBF-ND	23MHz, Single Supply, Dual Precision Op Amp*	8-Dip	6.13	4.07	3.07
LT1215CS8#PBF-ND	23MHz, Single Supply, Dual Precision Op Amp*	8-SOIC	6.63	4.40	3.32
LT1216CS-ND	23MHz, Single Supply, Quad Precision Op Amp	16-SOIC	11.88	7.89	5.94
LT1216CS#PBF-ND	23MHz, Single Supply, Quad Precision Op Amp*	16-SOIC	11.88	7.89	5.94
LT1218CS8#PBF-ND	Precision Rail-to-Rail In/Out Op Amp*	8-SOIC	10.00	6.64	5.15
LT1218LCS8#PBF-ND	Precision Rail-to-Rail In/Out Op Amp*	8-SOIC	6.13	4.07	3.30
LT1220CN8#PBF-ND	45MHz, High-Speed Op Amp*	8-Dip	6.25	4.17	3.50

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1220CS8-ND	45MHz, High-Speed Op Amp	8-SOIC	6.88	4.58	3.75
LT1220CS8#PBF-ND	45MHz, High-Speed Op Amp*	8-SOIC	6.88	4.58	3.75
LT1221CN8-ND	150MHz, High-Speed Op Amp	8-Dip	6.25	4.17	3.35
LT1221CN8#PBF-ND	150MHz, High-Speed Op Amp*	8-Dip	6.25	4.17	3.35
LT1221CS8-ND	150MHz, High-Speed Op Amp	8-SOIC	6.88	4.57	3.50
LT1221CS8#PBF-ND	150MHz, High-Speed Op Amp*	8-SOIC	6.88	4.57	3.50
LT1222CN8-ND	500MHz, High-Speed Op Amp	8-Dip	6.25	4.17	3.50
LT1222CN8#PBF-ND	500MHz, High-Speed Op Amp*	8-Dip	6.25	4.17	3.50
LT1222CS8-ND	500MHz, High-Speed Op Amp	8-SOIC	6.88	4.58	3.75
LT1222CS8#PBF-ND	500MHz, High-Speed Op Amp*	8-SOIC	6.88	4.58	3.75
LT1223CN8-ND	100MHz, Current Feedback Op Amp	8-Dip	5.38	3.58	2.85
LT1223CN8#PBF-ND	100MHz, Current Feedback Op Amp*	8-Dip	5.38	3.58	2.85
LT1223CS8#PBF-ND	100MHz, Current Feedback Op Amp*	8-SOIC	6.13	4.08	3.40
LT1224CS8-ND	45MHz, High-Speed Op Amp	8-SOIC	6.13	4.07	3.30
LT1224CS8#PBF-ND	45MHz, High-Speed Op Amp*	8-SOIC	6.13	4.07	3.30
LT1226CN8#PBF-ND	High-Speed, Low Noise Op Amp*	8-Dip	5.38	3.58	2.85
LT1226CS8#PBF-ND	High-Speed, Low Noise Op Amp*	8-SOIC	6.13	4.08	3.40
LT1227CN8-ND	140MHz, Video Current Feedback Amp	8-Dip	4.63	3.08	2.45
LT1227CN8#PBF-ND	140MHz, Video Current Feedback Amp*	8-Dip	4.63	3.08	2.45
LT1227CS8-ND	140MHz, Video Current Feedback Amp	8-SOIC	5.38	3.58	3.25
LT1227CS8#PBF-ND	140MHz, Video Current Feedback Amp*	8-SOIC	5.38	3.58	3.25
LT1228CN8-ND	100MHz, Current Feedback Amp with DC Gain	8-Dip	6.88	4.58	3.95
LT1228CS8-ND	100MHz, Current Feedback Amp with DC Gain	8-SOIC	7.75	5.17	4.30
LT1228CS8#PBF-ND	100MHz, Current Feedback Amp with DC Gain*	8-SOIC	7.75	5.17	4.30
LT1229CN8-ND	100MHz, Dual Current Feedback Op Amp	8-Dip	6.88	4.58	3.95
LT1229CN8#PBF-ND	100MHz, Dual Current Feedback Op Amp*	8-Dip	6.88	4.58	3.95
LT1229CS8#PBF-ND	100MHz, Dual Current Feedback Op Amp*	8-SOIC	7.75	5.17	4.30
LT1230CS-ND	100MHz, Quad Current Feedback Op Amp	14-SOIC	13.75	9.13	7.50
LT1230CS#PBF-ND	100MHz, Quad Current Feedback Op Amp*	14-SOIC	13.75	9.13	7.50
LT1252CN8-ND	Low Cost Single Video Amplifier	8-Dip	3.25	2.17	1.75
LT1252CN8#PBF-ND	Low Cost Single Video Amplifier*	8-Dip	3.25	2.17	1.75
LT1252CS8-ND	Low Cost Single Video Amplifier	8-SOIC	3.50	2.33	1.85
LT1252CS8#PBF-ND	Low Cost Single Video Amplifier*	8-SOIC	3.50	2.33	1.85
LT1253CN8-ND	Low Cost Dual Video Amplifier	8-Dip	4.50	3.00	2.49
LT1253CN8#PBF-ND	Low Cost Dual Video Amplifier*	8-Dip	4.50	3.00	2.49
LT1253CS8#PBF-ND	Low Cost Dual Video Amplifier*	8-SOIC	4.88	3.25	2.60
LT1254CN#PBF-ND	Low Cost Quad Video Amplifier*	14-Dip	8.13	5.42	4.49
LT1254CS-ND	Low Cost Quad Video Amplifier	14-SOIC	8.63	5.75	4.80
LT1254CS#PBF-ND	Low Cost Quad Video Amplifier*	14-SOIC	8.63	5.75	4.80
LT1256CS-ND	40MHz Video Fader/DC Gain Controlled Amp	14-SOIC	11.63	7.75	6.30
LT1256CS#PBF-ND	40MHz Video Fader/DC Gain Controlled Amp*	14-SOIC	11.63	7.75	6.30
LT1259CN-ND	Dual Current Feedback Amp with Shutdown	14-Dip	4.63	3.08	2.55
LT1259CS#PBF-ND	Dual Current Feedback Amp with Shutdown*	14-SOIC	4.75	3.16	2.65
LT1260CN-ND	Triple Current Feedback Amp with Shutdown	16-Dip	4.88	3.24	2.70
LT1260CN#PBF-ND	Triple Current Feedback Amp with Shutdown*	16-Dip	4.88	3.24	2.70
LT1260CS-ND	Triple Current Feedback Amp with Shutdown	16-SOIC	5.13	3.41	2.85
LT1260CS#PBF-ND	Triple Current Feedback Amp with Shutdown*	16-SOIC	5.13	3.41	2.85
LT1351CMS8#PBF-ND	Low Power, High-Speed, 3MHz Op Amp*	8-MSOP	5.13	3.41	2.80
LT1351CS8-ND	Low Power, High-Speed, 3MHz Op Amp	8-SOIC	4.75	3.16	2.60
LT1351CS8#PBF-ND	Low Power, High-Speed, 3MHz Op Amp*	8-SOIC	4.75	3.16	2.60
LT1352CS8#PBF-ND	Dual, Very Low Power, HS, 3MHz Op Amp*	8-SOIC	7.63	5.10	4.25
LT1352IS8-ND	Dual, Very Low Power, HS, 3MHz Op Amp	8-SOIC	9.13	6.52	5.37
LT1352IS8#PBF-ND	Dual, Very Low Power, HS, 3MHz Op Amp*	8-SOIC	9.13	6.52	5.37
LT1353CS#PBF-ND	Quad, Very Low Power, HS, 3MHz Op Amp*	14-SOIC	12.63	8.40	6.95
LT1354CN8#PBF-ND	Low Power, High-Speed, 12MHz Op Amp*	8-Dip	4.25	2.83	2.35
LT1354CS8#PBF-ND	Low Power, High-Speed, 12MHz Op Amp*	8-SOIC	4.75	3.17	2.60
LT1355CN8#PBF-ND	Dual, Low Power, High-Speed, 12MHz Op Amp*	8-Dip	7.00	4.67	3.95
LT1355CS8-ND	Dual, Low Power, High-Speed, 12MHz Op Amp	8-SOIC	7.63	5.10	4.25
LT1355CS8#PBF-ND	Dual, Low Power, High-Speed, 12MHz Op Amp*	8-SOIC	7.63	5.10	4.25
LT1356CN-ND	Quad, Low Power, High-Speed, 12MHz Op Amp	14-Dip	11.75	7.83	6.70
LT1356CN#PBF-ND	Quad, Low Power, High-Speed, 12MHz Op Amp*	14-Dip	11.75	7.83	6.70
LT1356CS-ND	Quad, Low Power, High-Speed, 12MHz Op Amp	16-SOIC	12.63	8.40	6.95
LT1356CS#PBF-ND	Quad, Low Power, High-Speed, 12MHz Op Amp*	16-SOIC	12.63	8.40	6.95
LT1357CN8-ND	Single, High-Speed, 25MHz Op Amp	8-Dip	4.63	3.08	2.55
LT1357CN8#PBF-ND	Single, High-Speed, 25MHz Op Amp*	8-Dip	4.63	3.08	2.55
LT1357CS8-ND	Single, High-Speed, 25MHz Op Amp	8-SOIC	5.13	3.42	2.80
LT1357CS8#PBF-ND	Single, High-Speed, 25MHz Op Amp*	8-SOIC	5.13	3.42	2.80
LT1358CN8-ND	Dual, High-Speed, 25MHz Op Amp	8-Dip	7.25	4.83	4.10
LT1358CN8#PBF-ND	Dual, High-Speed, 25MHz Op Amp*	8-Dip	7.25	4.83	4.10
LT1358CS8-ND	Dual, High-Speed, 25MHz Op Amp	8-SOIC	8.25	5.50	4.40
LT1358CS8#PBF-ND	Dual, High-Speed, 25MHz Op Amp*	8-SOIC	8.25	5.50	4.40
LT1359CN#PBF-ND	Quad, High-Speed, 25MHz Op Amp*	14-Dip	12.00	8.00	6.80
LT1359CS-ND	Quad, High Speed, 25MHz Op Amp	16-SOIC	12.88	8.55	7.05
LT1359CS#PBF-ND	Quad, High Speed, 25MHz Op Amp*	16-SOIC	12.88	8.55	7.05
LT1360CN8#PBF-ND	Single, High-Speed, 50MHz Op Amp*	8-Dip	4.13	2.75	2.25
LT1360CS8#PBF-ND	Single, High-Speed, 50MHz Op Amp*	8-SOIC	4.63	3.08	2.50
LT1361CN8-ND	Dual, High-Speed, 50MHz Op Amp	8-Dip	6.38	4.25	3.50
LT1361CN8#PBF-ND	Dual, High-Speed, 50MHz Op Amp*	8-Dip	6.38	4.25	3.50
LT1361CS8-ND	Dual, High-Speed, 50MHz Op Amp	8-SOIC	6.75	4.50	3.65
LT1361CS8#PBF-ND	Dual, High-Speed, 50MHz Op Amp*	8-SOIC	6.75	4.50	3.65
LT1362CN#PBF-ND	Quad, High-Speed, 50MHz Op Amp*	14-Dip	11.25	7.50	6.15
LT1362CS#PBF-ND	Quad, High-Speed, 50MHz Op Amp*	16-SOIC	11.75	7.83	6.45
LT1363CN8-ND	Single, High-Speed, 70MHz Op Amp	8-Dip	4.50	3.00	2.45
LT1363CN8#PBF-ND	Single, High-Speed, 70MHz Op Amp*	8-Dip	4.50	3.00	2.45
LT1363CS8-ND	Single, High-Speed, 70MHz Op Amp	8-SOIC	5.00	3.33	2.70
LT1363CS8#PBF-ND	Single, High-Speed, 70MHz Op Amp*	8-SOIC	5.00	3.33	2.70
LT1364CN8#PBF-ND	Dual, High-Speed, 70MHz Op Amp*	8-Dip	6.88	4.58	3.80
LT1364CS8#PBF-ND	Dual, High-Speed, 70MHz Op Amp*	8-SOIC	7.25	4.82	3.95
LT1365CN#PBF-ND	Quad, High-Speed, 70MHz Op Amp*	14-Dip	12.13	8.08	6.65
LT1365CS#PBF-ND	Quad, High-Speed, 70MHz Op Amp*	16-SOIC	12.63	8.42	6.95
LT1366CN8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp*	8-Dip	6.50	4.33	3.60
LT1366CS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.75	4.50	3.75
LT1366CS8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp*	8-SOIC	6.75	4.50	3.75
LT1367CS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	11.50	7.65	6.35
LT1367CS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp*	14-SOIC	11.50	7.65	6.35
LT1368CN8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-Dip	6.50	4.32	3.60
LT1368CN8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp*	8-Dip	6.50	4.32	3.60
LT1368CS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.75	4.50	3.75
LT1368CS8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp*	8-SOIC	6.75	4.50	3.75
LT1369CS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp*	14-SOIC	11.50	7.65	6.35

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1395CS5#TRMPBFCT-ND	Single 400MHz Current Feedback Amp*	SOT-23-5	2.49	2.23	2.01
LT1395CS5#TRMPBFTR-ND	Single 400MHz Current Feedback Amp*	SOT-23-5		585.00/500	
LT1395CS6#TRMCT-ND	Single 400MHz Current Feedback Amp	SOT-23-6	2.60	2.33	2.10
LT1395CS6#TRMPBFCT-ND	Single 400MHz Current Feedback Amp*	SOT-23-6	2.60	2.33	2.10
LT1395CS6#TRMPBFTR-ND	Single 400MHz Current Feedback Amp*	SOT-23-6		615.00/500	
LT1395CS8#PBF-ND	Single 400MHz Current Feedback Amp*	8-SOIC	2.43	1.62	1.23
LT1396CDD-ND	400MHz, Dual Current Feedback Amp	8-DFN	3.18	2.11	1.61
LT1399CS#PBF-ND	300MHz, Triple Current Feedback Amp*	16-SOIC	5.00	3.32	2.50
LT1399HVCS#PBF-ND	300MHz, Triple Current Feedback Amp*	16-SOIC	6.25	4.15	3.25
LT1413CN8#PBF-ND	5V Single Supply, Dual Precision Op Amp*	8-Dip	3.75	2.50	2.05
LT1413S8-ND	5V Single Supply, Dual Precision Op Amp	8-SOIC	4.00	2.67	2.30
LT1413S8#PBF-ND	5V Single Supply, Dual Precision Op Amp*	8-SOIC	4.00	2.67	2.30
LT1457S8#PBF-ND	Dual Precision JFET Input Op Amp*	8-SOIC	4.75	3.17	2.55
LT1464ACS8#PBF-ND	Dual Micropower JFET Input Op Amp*	8-SOIC	9.00	5.98	4.95
LT1464CS8-ND	Dual Micropower JFET Input Op Amp	8-SOIC	5.00	3.32	2.75
LT1464CS8#PBF-ND	Dual Micropower JFET Input Op Amp*	8-SOIC	5.00	3.32	2.75
LT1465CS-ND	Quad Micropower JFET Input Op Amp	14-SOIC	8.50	5.65	4.75
LT1465CS#PBF-ND	Quad Micropower JFET Input Op Amp*	14-SOIC	8.50	5.65	4.75
LT1466LCS8#PBF-ND	Dual Precision Rail-to-Rail In/Out Op Amp*	8-SOIC	8.25	5.50	4.40
LT1468CN8-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp	8-Dip	6.25	4.15	3.13
LT1468CN8#PBF-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp*	8-Dip	6.25	4.15	3.13
LT1468CS8-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp	8-SOIC	6.25	4.15	3.13
LT1468CS8#PBF-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp*	8-SOIC	6.25	4.15	3.13
LT1468IS8#PBF-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp*	8-SOIC	7.50	4.98	3.75
LT1469CS8#PBF-ND	90MHz, Dual HS, 16-Bit Accurate Op Amp*	8-SOIC	10.50	6.98	5.25
LT1490ACDD-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-DFN	4.75	3.39	2.79
LT1490ACDD#PBF-ND	Dual Micropower Rail-to-Rail In/Out Op Amp*	8-DFN	4.75	3.39	2.79
LT1490ACS8#PBF-ND	Dual Micropower Rail-to-Rail In/Out Op Amp*	8-SOIC	3.88	2.58	1.95
LT1490CN8#PBF-ND	Dual Micropower Rail-to-Rail In/Out Op Amp*	8-Dip	3.75	2.50	2.05
LT1490CS8-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	3.88	2.60	2.15
LT1490IN8-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-Dip	4.50	2.99	2.45
LT1491ACS#PBF-ND	Quad Micropower Rail-to-Rail In/Out Op Amp*	14-SOIC	6.38	4.24	3.25
LT1491AIS-ND	Quad Micropower Rail-to-Rail In/Out Op Amp	14-SOIC	7.75	5.15	3.95
LT1491AIS#PBF-ND	Quad Micropower Rail-to-Rail In/Out Op Amp*	14-SOIC	7.75	5.15	3.95
LT1491IS-ND	Quad Micropower Rail-to-Rail In/Out Op Amp	14-SOIC	7.75	5.15	4.25
LT1492CN8-ND	Dual Low Power Single Supply Precision Op Amp	8-Dip	7.38	4.90	3.69
LT1492CN8#PBF-ND	Dual Low Power Single Supply Precision Op Amp*	8-Dip	7.38	4.90	3.69
LT1492CS8-ND	Dual Low Power Single Supply Precision Op Amp	8-SOIC	7.50	4.98	3.75
LT1492CS8#PBF-ND	Dual Low Power Single Supply Precision Op Amp*	8-SOIC	7.50	4.98	3.75
LT1493CS-ND	Quad Low Power Single Supply Precision Op Amp	16-SOIC	13.50	8.97	6.75
LT1493CS#PBF-ND	Quad Low Power Single Supply Precision Op Amp*	16-SOIC	13.50	8.97	6.75
LT1494CMS8-ND	Single Rail-to-Rail In/Out Op Amp	8-MSOP	3.63	2.41	1.90
LT1494CMS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp*	8-MSOP	3.63	2.41	1.90
LT1494CN8-ND	Single Rail-to-Rail In/Out Op Amp	8-Dip	3.38	2.25	1.80
LT1494CS8-ND	Single Rail-to-Rail In/Out Op Amp	8-SOIC	3.38	2.25	1.80
LT1494CS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp*	8-SOIC	3.38	2.25	1.80
LT1494HS8-ND	Single Rail-to-Rail In/Out Op Amp	8-SOIC	4.13	2.74	2.20
LT1494IMS8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-MSOP	4.13	2.74	2.20
LT1494IMS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.*	8-MSOP	4.13	2.74	2.20
LT1494IN8#PBF-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.*	8-Dip	3.88	2.58	2.10
LT1494IS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.*	8-SOIC	3.88	2.58	2.10
LT1495CS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	5.38	3.57	3.10
LT1495CS8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp*	8-SOIC	5.38	3.57	3.10
LT1495IS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.25	4.15	3.55
LT1495IS8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp*	8-SOIC	6.25	4.15	3.55
LT1496CS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	7.00	4.65	4.10
LT1496CS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp*	14-SOIC	7.00	4.65	4.10
LT1496HS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp*	14-SOIC	8.75	5.81	4.90
LT1496IN#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp*	14-Dip	8.00	5.32	4.60
LT1496IS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	8.25	5.48	4.70
LT1496IS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp*	14-SOIC	8.25	5.48	4.70
LT1497CS-ND	Dual Current Feedback Amp	16-SOIC	7.88	5.23	4.20
LT1497CS8#PBF-ND	Dual Current Feedback Amp*	8-SOIC	6.25	4.15	3.45
LT1498CN8#PBF-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp*	8-Dip	6.50	4.32	3.25
LT1498CS8#PBF-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp*	8-SOIC	6.75	4.49	3.38
LT1498IS8-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-SOIC	7.00	4.65	3.65
LT1498IS8#PBF-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp*	8-SOIC	7.00	4.65	3.65
LT1499CS-ND	10MHz, Quad Rail-to-Rail In/Out Op Amp	14-SOIC	12.25	8.14	6.13
LT1499CS#PBF-ND	10MHz, Quad Rail-to-Rail In/Out Op Amp*	14-SOIC	12.25	8.14	6.13
LT1567CMS8-ND	Op Amp and Inverter/Filter Building Block	8-MSOP	3.75	2.49	2.00
LT1620CS8#PBF-ND	Rail-to-Rail Current Sense Amp*	8-SOIC	3.38	2.57	2.12
LT1620IS8-ND	Rail-to-Rail Current Sense Amp, Ind. Temp.	8-SOIC	3.88	2.58	1.94
LT1620IS8#PBF-ND	Rail-to-Rail Current Sense Amp, Ind. Temp*	8-SOIC	3.88	2.58	1.94
LT1630CN8#PBF-ND	30MHz, Dual R/R In/Out Precision Op Amp*	8-Dip	6.50	4.32	3.25
LT1630CS8-ND	30MHz, Dual R/R In/Out Precision Op Amp	8-SOIC	6.75	4.49	3.38
LT1630CS8#PBF-ND	30MHz, Dual R/R In/Out Precision Op Amp*	8-SOIC	6.75	4.49	3.38
LT1631CS-ND	30MHz, Quad R/R In/Out Precision Op Amp	14-SOIC	12.25	8.14	6.13
LT1631CS#PBF-ND	30MHz, Quad R/R In/Out Precision Op Amp*	14-SOIC	12.25	8.14	6.13
LT1632CN8#PBF-ND	45MHz, Dual R/R In/Out Precision Op Amp*	8-Dip	6.63	4.40	3.32
LT1632CS8#PBF-ND	45MHz, Dual R/R In/Out Precision Op Amp*	8-SOIC	6.88	4.57	3.44
LT1633CS-ND	45MHz, Quad R/R In/Out Precision Op Amp	14-SOIC	12.38	8.22	6.19
LT1633CS#PBF-ND	45MHz, Quad R/R In/Out Precision Op Amp*	14-SOIC	12.38	8.22	6.19
LT1635CN8-ND	Micropower Rail-to-Rail Op Amp and Reference	8-Dip	3.50	2.33	1.85
LT1635CN8#PBF-ND	Micropower Rail-to-Rail Op Amp and Reference*	8-Dip	3.50	2.33	1.85
LT1635CS8-ND	Micropower Rail-to-Rail Op Amp and Reference	8-SOIC	3.88	2.58	2.05
LT1635CS8#PBF-ND	Micropower Rail-to-Rail Op Amp and Reference*	8-SOIC	3.88	2.58	2.05
LT1636CMS8#PBF-ND	220kHz, Single Micropower R/R In/Out Op Amp*	8-MSOP	3.50	2.33	1.90
LT1636CN8#PBF-ND	220kHz, Single Micropower R/R In/Out Op Amp*	8-Dip	2.88	1.91	1.50
LT1636CS8#PBF-ND	220kHz, Single Micropower R/R In/Out Op Amp*	8-SOIC	3.00	2.00	1.55
LT1636IS8-ND	220kHz, Single Micropower R/R I/O Op Amp, Industrial Temperature	8-SOIC	3.50	2.33	1.80
LT1636IS8#PBF-ND	220kHz, Single Micropower R/R I/O Op Amp, Industrial Temperature*	8-SOIC	3.50	2.33	1.80
LT1637CDD-ND	1.1MHz, Single Micropower R/R In/Out Op Amp	8-DFN	3.63	2.59	2.13

*** RoHS Compliant**

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1637CS8-ND	1.1MHz, Single Micropower R/R In/Out Op Amp	8-SOIC	3.00	2.00	1.55
LT1637CS8#PBF-ND	1.1MHz, Single Micropower R/R In/Out Op Amp*	8-SOIC	3.00	2.00	1.55
LT1637HS8-ND	1.1MHz, Single Micropower R/R In/Out Op Amp	8-SOIC	3.50	2.33	1.85
LT1637HS8#PBF-ND	1.1MHz, Single Micropower R/R In/Out Op Amp*	8-SOIC	3.50	2.33	1.85
LT1638CMS8-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp	8-MSOP	4.50	3.00	2.40
LT1638CMS8#PBF-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp*	8-MSOP	4.50	3.00	2.40
LT1638CS8-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp	8-SOIC	3.88	2.60	2.15
LT1638CS8#PBF-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp*	8-SOIC	3.88	2.60	2.15
LT1638HS8#PBF-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp*	8-SOIC	4.88	3.24	2.70
LT1638IS8#PBF-ND	1.2MHz, Dual MPU R/R I/O Op Amp, Ind. Temp.*	8-SOIC	4.63	3.08	2.60
LT1639HS#PBF-ND	1.2MHz, Quad Micropower R/R In/Out Op Amp*	8-SOIC	8.00	5.32	4.35
LT1639IS#PBF-ND	1.2MHz, Quad MPU R/R I/O Op Amp, Ind. Temp.*	8-SOIC	7.75	5.15	4.25
LT1672CN8-ND	Single Rail-to-Rail In/Out Op Amp	8-Dip	3.38	2.25	1.80
LT1672CS8-ND	Single Rail-to-Rail In/Out Op Amp	8-SOIC	3.38	2.25	1.80
LT1672CS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp*	8-SOIC	3.38	2.25	1.80
LT1672IN8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-Dip	3.88	2.58	2.10
LT1673CN8-ND	Dual Rail-to-Rail In/Out Op Amp	8-Dip	5.13	3.41	3.00
LT1673CS8-ND	Dual Rail-to-Rail In/Out Op Amp	8-SOIC	5.38	3.57	3.10
LT1673CS8#PBF-ND	Dual Rail-to-Rail In/Out Op Amp*	8-SOIC	5.38	3.57	3.10
LT1673IN8-ND	Dual Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-Dip	6.00	3.99	3.45
LT1673IS8-ND	Dual Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-SOIC	6.25	4.15	3.55
LT1674CN-ND	Quad Rail-to-Rail In/Out Op Amp	14-SOIC	6.75	4.49	3.95
LT1674CS-ND	Quad Rail-to-Rail In/Out Op Amp	14-SOIC	7.00	4.65	4.10
LT1674IN-ND	Quad Rail-to-Rail In/Out Op Amp, Ind. Temp.	14-Dip	8.00	5.32	4.60
LT1674IS-ND	Quad Rail-to-Rail In/Out Op Amp, Ind. Temp.	14-SOIC	8.25	5.48	4.70
LT1677CS8-ND	Single, Low Noise Rail-to-Rail Precision Op Amp	8-SOIC	4.50	2.99	2.30
LT1677CS8#PBF-ND	Single, Low Noise Rail-to-Rail Precision Op Amp*	8-SOIC	4.50	2.99	2.30
LT1678CS8#PBF-ND	Dual Rail-to-Rail Precision Op Amp*	8-SOIC	5.00	3.57	2.94
LT1678IS8#PBF-ND	Dual Rail-to-Rail Precision Op Amp*	8-SOIC	5.38	3.84	3.16
LT1722CS5#TRMCT-ND	Single 200MHz Low Noise Precision Op Amp	SOT-23-5	2.18	1.95	1.76
LT1722CS5#TRMPBFCT-ND	Single 200MHz Low Noise Precision Op Amp*	SOT-23-5	2.18	1.95	1.76
LT1722CS5#TRMPBFTR-ND	Single 200MHz Low Noise Precision Op Amp*	SOT-23-5		545.00/500	
LT1722CS8-ND	Single 200MHz Low Noise Precision Op Amp	8-SOIC	1.80	1.28	1.06
LT1723CS8-ND	Dual 200MHz Low Noise Precision Op Amp	8-SOIC	2.38	1.70	1.40
LT1723IS8#PBF-ND	Dual 200MHz LN Precision Op Amp, Ind. Temp.*	8-SOIC	2.88	2.05	1.68
LT1724CS-ND	Quad 200MHz Low Noise Precision Op Amp	14-SOIC	4.38	3.13	2.57
LT1739CFE-ND	Dual 500mA, 200MHz xDSL Line Driver Amp	20-TSSOP	7.38	4.90	4.25
LT1739CUE-ND	Dual 500mA, 200MHz xDSL Line Driver Amp	12-DFN	7.50	4.98	4.46
LT1739IUE-ND	Dual 500mA, 200MHz xDSL Line Driver Amp	12-DFN	9.13	6.06	4.38
LT1782HS5#TRMCT-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-5	3.75	3.35	3.02
LT1782HS5#TRMPBFCT-ND	Micropower Rail-to-Rail In/Out Op Amp*	SOT-23-5	3.75	3.35	3.02
LT1782HS5#TRMPBFTR-ND	Micropower Rail-to-Rail In/Out Op Amp*	SOT-23-5		885.00/500	
LT1782HS6#TRMCT-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-6	4.17	3.73	3.36
LT1782IS5#TRMPBFCT-ND	Micropower Rail-to-Rail In/Out Op Amp*	SOT-23-5	3.42	3.05	2.75
LT1782IS5#TRMPBFTR-ND	Micropower Rail-to-Rail In/Out Op Amp*	SOT-23-5		805.00/500	
LT1782IS6#TRMCT-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-6	3.86	3.45	3.11
LT1782IS6#TRMPBFCT-ND	Micropower Rail-to-Rail In/Out Op Amp*	SOT-23-6	3.86	3.45	3.11
LT1782IS6#TRMPBFTR-ND	Micropower Rail-to-Rail In/Out Op Amp*	SOT-23-6		855.00/500	
LT1783HS5#TRMPBFCT-ND	Micropower Rail-to-Rail In/Out Op Amp*	SOT-23-5	3.75	3.35	3.02
LT1783HS5#TRMPBFTR-ND	Micropower Rail-to-Rail In/Out Op Amp*	SOT-23-5		885.00/500	
LT1783IS5#TRMPBFCT-ND	1.25MHz Micropower Rail-to-Rail Op Amp*	SOT-23-5	3.42	3.05	2.75
LT1783IS5#TRMPBFTR-ND	1.25MHz Micropower Rail-to-Rail Op Amp*	SOT-23-5		780.00/500	
LT1783IS6#TRMCT-ND	1.25MHz Micropower Rail-to-Rail Op Amp	SOT-23-6	3.86	3.45	3.11
LT1783IS6#TRMPBFCT-ND	1.25MHz Micropower Rail-to-Rail Op Amp*	SOT-23-6	3.86	3.45	3.11
LT1783IS6#TRMPBFTR-ND	1.25MHz Micropower Rail-to-Rail Op Amp*	SOT-23-6		855.00/500	
LT1784CS5#TRMCT-ND	2.5MHz Micropower Rail-to-Rail Op Amp	SOT-23-5	2.58	2.30	2.07
LT1784CS5#TRMPBFCT-ND	2.5MHz Micropower Rail-to-Rail Op Amp*	SOT-23-5	2.58	2.30	2.07
LT1784CS6#TRMCT-ND	2.5MHz Micropower Rail-to-Rail Op Amp	SOT-23-6	2.77	2.48	2.23
LT1784CS6#TRMPBFCT-ND	2.5MHz Micropower Rail-to-Rail Op Amp*	SOT-23-6	2.77	2.48	2.23
LT1787HS8#PBF-ND	Precision High Side Current Sense Amp*	8-SOIC	5.63	3.74	2.90
LT1787HVCS8#PBF-ND	Precision High Side Current Sense Amp*	8-SOIC	6.13	4.07	3.07
LT1787HVIS8#PBF-ND	Precision High Side Current Sense Amp*	8-SOIC	7.25	4.82	3.63
LT1792CS8#PBF-ND	Low Noise, JFET Input Precision Op Amp*	8-SOIC	4.75	3.16	2.45
LT1793CN8-ND	Low Noise, JFET Input Precision Op Amp	8-Dip	4.75	3.16	2.45
LT1793CN8#PBF-ND	Low Noise, JFET Input Precision Op Amp*	8-Dip	4.75	3.16	2.45
LT1793CS8#PBF-ND	Low Noise, JFET Input Precision Op Amp*	8-SOIC	4.75	3.16	2.45
LT1795CSW-ND	Dual 500mA, 50MHz, Current Feedback Amp	20-SOIC	10.25	6.81	5.30
LT1795CSW#PBF-ND	Dual 500mA, 50MHz, Current Feedback Amp*	20-SOIC	10.25	6.81	5.30
LT1800CS5#TRMPBFCT-ND	80MHz Low Power, R/R I/O Precision Op Amp*	SOT-23-5	3.33	2.98	2.68
LT1800CS5#TRMPBFTR-ND	80MHz Low Power, R/R I/O Precision Op Amp*	SOT-23-5		785.00/500	
LT1800CS8-ND	80MHz Low Power, R/R I/O Precision Op Amp	8-SOIC	2.75	1.83	1.45
LT1800CS8#PBF-ND	80MHz Low Power, R/R I/O Precision Op Amp*	8-SOIC	2.75	1.83	1.45
LT1801CMS8#PBF-ND	Dual 80MHz, 25V/µs, LP, R/R, I/O Prec. Op Amp*	8-MSOP	4.13	2.74	2.25
LT1801CS8#PBF-ND	Dual 80MHz, 25V/µs, LP, R/R, I/O Prec. Op Amp*	8-SOIC	3.88	2.58	2.15
LT1801IMS8-ND	Quad 80MHz, 25V/µs, LP, R/R, I/O Prec. Op Amp	8-MSOP	4.88	3.24	2.70
LT1801IMS8#PBF-ND	Quad 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp*	8-MSOP	4.88	3.24	2.70
LT1802CS#PBF-ND	Quad 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp*	14-SOIC	7.00	4.65	3.85
LT1803CS5#TRMCT-ND	Single 85MHz, 100V/µs, R/R In/Out Op Amp	SOT-23-5	3.19	2.85	2.57
LT1803CS5#TRMPBFCT-ND	Single 85MHz, 100V/µs, R/R In/Out Op Amp*	SOT-23-5	3.19	2.85	2.57
LT1803CS5#TRMPBFTR-ND	Single 85MHz, 100V/µs, R/R In/Out Op Amp*	SOT-23-5		785.00/500	
LT1804CS8-ND	Dual 85MHz, 100V/µs, Rail-to-Rail In/Out Op Amp	8-SOIC	3.88	2.58	2.15
LT1806CS6#TRMCT-ND	325MHz Single Rail-to-Rail In/Out Op Amp	SOT-23-6	5.15	4.60	4.14
LT1806CS6#TRMPBFCT-ND	325MHz Single Rail-to-Rail In/Out Op Amp*	SOT-23-6	5.15	4.60	4.14
LT1806CS6#TRMPBFTR-ND	325MHz Single Rail-to-Rail In/Out Op Amp*	SOT-23-6		1155.00/500	
LT1806CS8-ND	325MHz Single Rail-to-Rail In/Out Op Amp	8-SOIC	4.38	2.91	2.20
LT1806CS8#PBF-ND	325MHz Single Rail-to-Rail In/Out Op Amp*	8-SOIC	4.38	2.91	2.20
LT1806IS6#TRMPBFCT-ND	325MHz Single Rail-to-Rail In/Out Op Amp*	SOT-23-6	5.57	4.98	4.48
LT1806IS6#TRMPBFTR-ND	325MHz Single Rail-to-Rail In/Out Op Amp*	SOT-23-6		1255.00/500	
LT1806IS8-ND	325MHz Single R/R In/Out Op Amp, Ind. Temp.	8-SOIC	4.75	3.16	2.40
LT1806IS8#PBF-ND	325MHz Single R/R In/Out Op Amp, Ind. Temp*	8-SOIC	4.75	3.16	2.40
LT1807CS8-ND	325MHz Dual Rail-to-Rail In/Out Op Amp	8-SOIC	6.88	4.57	3.60
LT1807CS8#PBF-ND	325MHz Dual Rail-to-Rail In/Out Op Amp*	8-SOIC	6.88	4.57	3.60
LT1809CS6#TRMPBFCT-ND	180MHz Single Rail-to-Rail In/Out Op Amp*	SOT-23-6	4.45	3.98	3.58
LT1809CS6#TRMPBFTR-ND	180MHz Single Rail-to-Rail In/Out Op Amp*	SOT-23-6		1005.00/500	
LT1809IS6#TRMPBFCT-ND	180MHz Single R/R In/Out Op Amp, Ind. Temp.*	SOT-23-6	4.87	4.35	3.92
LT1809IS6#TRMPBFTR-ND	180MHz Single R/R I/O Op Amp, Ind. Temp.*	SOT-23-6		1105.00/500	
LT1812CS5#TRMCT-ND	100MHz Low Power Op Amp with Shutdown	SOT-23-5	2.21	1.98	1.78
LT1812CS6#TRMCT-ND	100MHz Low Power Op Amp with Shutdown	SOT-23-6	2.32	2.08	1.87
LT1813CDD-ND	Dual, High-Speed, Low Power Op Amp	8-SOIC	2.30	1.64	1.35
LT1813CS8-ND	Dual, High-Speed, Low Power Op Amp	8-SOIC	2.30	1.64	1.35
LT1813CS8#PBF-ND	Dual, High-Speed, Low Power Op Amp*	8-SOIC	2.30	1.64	1.35
LT1813HVCS8-ND	Dual, High-Speed, Low Power Op Amp	8-SOIC	2.75	1.96	1.61
LT1814CGN-ND	Quad, High-Speed, Low Power Op Amp	16-SSOP	3.90	2.78	2.29
LT1814CS#PBF-ND	Quad, High-Speed, Low Power Op Amp*	14-SOIC	3.90	2.78	2.29
LT1815CS5#TRMCT-ND	Single, High-Speed Op Amp	SOT-23-5	2.21	1.98	1.78
LT1815CS6#TRMCT-ND	Single, High-Speed Op Amp	SOT-23-6	2.60	2.33	2.10
LT1815IS5#TRMCT-ND	Single, High-Speed Op Amp, Ind. Temperature	SOT-23-5	2.60	2.33	2.10
LT1815IS6#TRMCT-ND	Single, High-Speed Op Amp, Ind. Temperature	SOT-23-6	3.08	2.75	2.48
LT1816ACMS-ND	Dual, High-Speed Op Amp	10-MSOP	3.60	2.57	2.11
LT1816CDD-ND	Dual, High-Speed Op Amp	8-DFN	3.00	2.14	1.76
LT1816CMS8-ND	Dual, High-Speed Op Amp	8-MSOP	3.00	2.14	1.76
LT1816CS8-ND	Dual, High-Speed Op Amp	8-SOIC	3.00	2.14	1.76
LT1816IMS8-ND	Dual, High-Speed Op Amp	8-MSOP	3.60	2.57	2.11
LT1817CGN-ND	Quad, High-Speed Op Amp	16-SSOP	4.10	2.92	2.41
LT1817CS-ND	Quad, High-Speed Op Amp	14-SOIC	4.10	2.92	2.41
LT1818CS5#TRMPBFCT-ND	400MHz, 9mA, Single Op Amp*	SOT-23-5	2.38	2.13	1.92
LT1818CS5#TRMPBFTR-ND	400MHz, 9mA, Single Op Amp*	SOT-23-5		615.00/500	
LT1819CS8-ND	400MHz, 9mA, Dual Op Amp	8-SOIC	3.20	2.28	1.88
LT1819CS8#PBF-ND	400MHz, 9mA, Dual Op Amp*	8-SOIC	3.20	2.28	1.88
LT1880CS5#TRMPBFCT-ND	Picoamp-In Rail-to-Rail Op Amp*	SOT-23-5	4.31	3.85	3.47
LT1880CS5#TRMPBFTR-ND	Picoamp-In Rail-to-Rail Op Amp*	SOT-23-5		1110.00/500	
LT1880IS5#TRMCT-ND	Picoamp-In Rail-to-Rail Op Amp, Ind. Temp.	SOT-23-5	5.15	4.60	4.14
LT1880IS5#TRMTR-ND	Picoamp-In Rail-to-Rail Op Amp, Ind. Temp.	SOT-23-5		1285.00/500	
LT1880IS5#TRMPBFCT-ND	Picoamp-In Rail-to-Rail Op Amp, Ind. Temp.*	SOT-23-5	5.15	4.60	4.14
LT1880IS5#TRMPBFTR-ND	Picoamp-In Rail-to-Rail Op Amp, Ind. Temp.*	SOT-23-5		1285.00/500	
LT1881AIS8#PBF-ND	Dual, Picoamp-In Rail-to-Rail Op Amp*	8-SOIC	9.13	6.06	4.57
LT1970CFE#PBF-ND	500mA Op Amp with Adj. Prec. Current Limit*	20-TSSOP	9.88	6.56	5.65
LT1970IFE#PBF-ND	500mA Op Amp with Adj. Prec. Current Limit*	20-TSSOP	11.38	7.56	6.50
LT2078AIS8-ND	Dual Micropower Op Amp, Ind. Temperature	8-SOIC	11.63	7.72	6.40
LT2078AIS8#PBF-ND	Dual Micropower Op Amp, Ind. Temperature*	8-SOIC	11.63	7.72	6.40
LT2078CS8-ND	Dual Micropower Op Amp	8-SOIC	6.50	4.35	3.65
LT2078CS8#PBF-ND	Dual Micropower Op Amp*	8-SOIC	6.50	4.35	3.65
LT2078IS8#PBF-ND	Dual Micropower Op Amp, Ind. Temperature*	8-SOIC	8.38	5.60	4.85
LT2079AIS#PBF-ND	Quad Micropower Op Amp, Ind. Temperature*	14-SOIC	19.75	13.12	10.95
LT2079CS#PBF-ND	Quad Micropower Op Amp*	14-SOIC	11.13	7.39	6.15
LT2079IS#PBF-ND	Quad Micropower Op Amp, Ind. Temperature*	14-SOIC	14.25	9.47	7.90
LT2178AIS8-ND	Dual Micropower Op Amp, Ind. Temperature	8-SOIC	9.75	6.48	5.10
LT2178CS8-ND	Dual Micropower Op Amp	8-SOIC	7.00	4.65	3.85
LT2178CS8#PBF-ND	Dual Micropower Op Amp*	8-SOIC	7.00	4.65	3.85
LT2178IS8#PBF-ND	Dual Micropower Op Amp, Ind. Temperature*	8-SOIC	7.75	5.15	4.05
LT6011ACS8-ND	Dual Rail-to-Rail Output Precision Op Amp	8-SOIC	4.38	3.13	2.57
LT6011CS8-ND	Dual Rail-to-Rail Output Precision Op Amp	8-SOIC	3.30	2.36	1.94
LT6011CS8#PBF-ND	Dual Rail-to-Rail Output Precision Op Amp*	8-SOIC	3.30	2.36	1.94
LT6012ACS#PBF-ND	Quad Rail-to-Rail Output Precision Op Amp*	14-SOIC	6.63	4.73	3.90
LT6012CS-ND	Quad Rail-to-Rail Output Precision Op Amp	14-SOIC	5.88	4.20	3.46
LT6012CS#PBF-ND	Quad Rail-to-Rail Output Precision Op Amp*	14-SOIC	5.88	4.20	3.46
LT6106CS5#TRMPBFCT-ND	36V High Side Current Sense Amp*	TSOT-23-5	1.96	1.75	1.58
LT6106CS5#TRMPBFTR-ND	36V High Side Current Sense Amp*	TSOT-23-5		510.00/500	
LT6106HS5#TRMPBFCT-ND	36V High Side Current Sense Amp*	TSOT-23-5	2.24	2.00	1.80
LT6106HS5#TRMPBFTR-ND	36V High Side Current Sense Amp*	TSOT-23-5		580.00/500	
LT6200CS6#TRMPBFCT-ND	165MHz, R/R, In/Out Low Noise Op Amp*	SOT-23-6	5.15	4.60	4.14
LT6200CS6#TRMPBFTR-ND	165MHz, R/R, In/Out Low Noise Op Amp*	SOT-23-6		1260.00/500	
LT6200CS6-5#TRMCT-ND	800MHz, Rail-to-Rail, In/Out Low Noise Op Amp	SOT-23-6	3.70	3.30	2.97
LT6200CS6-5#TRMTR-ND	800MHz, Rail-to-Rail, In/Out Low Noise Op Amp	SOT-23-6		885.00/500	
LT6200CS6-5#TRMPBFCT-ND	800MHz, Rail-to-Rail, I/O Low Noise Op Amp*	SOT-23-6	3.70	3.30	2.97
LT6200CS6-5#TRMPBFTR-ND	800MHz, R/R, In/Out Low Noise Op Amp*	SOT-23-6		885.00/500	
LT6200CS6-10#TRMCT-ND	1.6GHz, Rail-to-Rail, In/Out Low Noise Op Amp	SOT-23-6	3.70	3.30	2.97
LT6200CS8#PBF-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp*	8-SOIC	4.38	2.91	2.40
LT6200CS8-5-ND	800MHz, Rail-to-Rail, In/Out Low Noise Op Amp	8-SOIC	3.08	2.05	1.65
LT6200CS8-10-ND	1.6GHz, Rail-to-Rail, In/Out Low Noise Op Amp	8-SOIC	3.08	2.05	1.65
LT6200CS8-10#PBF-ND	1.6GHz, Rail-to-Rail, In/Out Low Noise Op Amp*	8-SOIC	3.08	2.05	1.65
LT6200IS6#TRMCT-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp	SOT-23-6	6.13	5.48	4.93
LT6200IS6#TRMPBFCT-ND	165MHz, R/R, In/Out Low Noise Op Amp*	SOT-23-6	6.13	5.48	4.93
LT6200IS8#PBF-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp*	8-SOIC	5.25	3.49	2.90
LT6201CDD-ND	Dual, Rail-to-Rail, In/Out Low Noise Op Amp	8-DFN	7.63	5.07	4.10
LT6201CS8#PBF-ND	Dual, Rail-to-Rail, In/Out Low Noise Op Amp*	8-SOIC	7.38	4.90	4.00
LT6203CDD#PBF-ND	Dual, R/R, In/Out Ultralow Noise, LP Op Amp*	8-DFN	5.50	3.76	3.17
LT6203CMS8-ND	Dual R/R, In/Out, Ultralow Noise, LP Op Amp	8-MSOP	5.13	3.50	2.95
LT6203CMS8#PBF-ND	Dual R/R, In/Out, Ultralow Noise, LP Op Amp*	8-MSOP	5.13	3.50	2.95
LT6203CS8-ND	Dual R/R, In/Out, Ultralow Noise, LP Op Amp	8-SOIC	4.88	3.40	2.85
LT6203CS8#PBF-ND	Dual R/R, In/Out, Ultralow Noise, LP Op Amp*	8-SOIC	4.88	3.40	2.85
LT6204CS-ND	Quad R/R, In/Out, Ultralow Noise, LP Op Amp	14-SOIC	9.00	6.35	5.90
LT6204CS#PBF-ND	Quad R/R, In/Out, Ultralow Noise, LP Op Amp*	14-SOIC	9.00	6.35	5.90
LT6206CMS8-ND	Dual Single Supply 3V, 100MHz Video Op Amp	8-MSOP	2.10	1.50	1.25
LT6206CMS8#PBF-ND	Dual Single Supply 3V, 100MHz Video Op Amp*	8-MSOP	2.10	1.50	1.25
LT6207CGN#PBF-ND	Quad Single Supply 3V, 100MHz Video Op Amp*	16-SSOP	3.13	2.08	1.65
LT6210CS6#TRMCT-ND	Prog. Supply Current, R/R Out, Current Feedback Amp	SOT-23-6	2.91	2.60	2.34
LT6220CS5#TRMPBFCT-ND	Single 60MHz, 20V/µs LP R/R In/Out Precision Op Amp*	SOT-23-5	2.91	2.60	2.34
LT6220CS5#TRMPBFTR-ND	Single 60MHz, 20V/µs LP R/R In/Out Precision Op Amp*	SOT-23-5		790.00/500	
LT6220CS8#PBF-ND	Single 60MHz, 20V/µs LP R/R In/Out Precision Op Amp*	8-SOIC	2.38	1.75	1.45
LT6221CS8-ND	Dual 60MHz, 20V/µs LP R/R In/Out Precision Op Amp	8-SOIC	3.70	2.46	2.13
LT6221CS8#PBF-ND	Dual 60MHz, 20V/µs LP R/R In/Out Precision Op Amp*	8-SOIC	3.70	2.46	2.13
LT6222CGN-ND	Quad 60MHz, 20V/µs LP R/R In/Out Precision Op Amp	16-SSOP	5.88	3.91	3.40
LT6222CGN#PBF-ND	Quad 60MHz, 20V/µs LP R/R In/Out Precision Op Amp*	16-SSOP	5.88	3.91	3.40
LT6230CS6#TRMCT-ND	Single 215MHz, R/R Output, 3.4mA Op Amp	SOT-23-6	3.05	2.73	2.46
LT6230CS6#TRMPBFCT-ND	Single 215MHz, R/R Output, 3.4mA Op Amp*	SOT-23-6	3.05	2.73	2.46
LT6230CS6#TRMPBFTR-ND	Single 215MHz, R/R Output, 3.4mA Op Amp*	SOT-23-6		760.00/500	

***** *RoHS Compliant*

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT6230CS6-10#TRMPBFCT-ND	Single 215MHz, R/R Output, 3.4mA Op Amp*	SOT-23-6	3.61	3.23	2.91
LT6230CS6-10#TRMPBFTR-ND	Single 215MHz, R/R Output, 3.4mA Op Amp*	SOT-23-6	885.00/500		
LT6231CDD-ND	Dual 215MHz, Rail-to-Rail Output, 3.4mA Op Amp	8-DFN	4.13	2.95	2.43
LT6231CS8-ND	Dual 215MHz, Rail-to-Rail Output, 3.4mA Op Amp	8-SOIC	3.88	2.77	2.28
LT6231CS8#PBF-ND	Dual 215MHz, R/R Output, 3.4mA Op Amp*	8-SOIC	3.88	2.77	2.28
LT6232CGN-ND	Quad 215MHz, R/R Output, 3.4mA Op Amp	16-SSOP	6.63	4.73	3.90
LT6232CGN#PBF-ND	Quad 215MHz, R/R Output, 3.4mA Op Amp*	16-SSOP	6.63	4.73	3.90
LT6233CS6#TRMPBFCT-ND	Single 60MHz, R/R Output, 1.15mA Op Amp*	SOT-23-6	3.47	3.10	2.79
LT6233CS6#TRMPBFTR-ND	Single 60MHz, R/R Output, 1.15mA Op Amp*	SOT-23-6	905.00/500		
LT6233CS6-10#TRMCT-ND	Single 375MHz, R/R Output, 1.15mA Op Amp	SOT-23-6	4.45	3.98	3.58
LT6233CS6-10#TRMPBFCT-ND	Single 375MHz, R/R Output, 1.15mA Op Amp*	SOT-23-6	4.45	3.98	3.58
LT6233CS6-10#TRMPBFTR-ND	Single 375MHz, R/R Output, 1.15mA Op Amp*	SOT-23-6	1165.00/500		
LT6234CS8-ND	Dual 60MHz, Rail-to-Rail Output, 1.15mA Op Amp	8-SOIC	4.88	3.48	2.87
LT6234CS8#PBF-ND	Dual 60MHz, R/R Output, 1.15mA Op Amp*	8-SOIC	4.88	3.48	2.87
LT6300CGN-ND	500mA, 200MHz xDSL Line Driver	16-SSOP	5.88	3.91	3.35
LT6300IGN#PBF-ND	500mA, 200MHz xDSL Line Driver*	16-SSOP	7.00	4.65	4.00
LT6301CFE-ND	Dual 500mA Differential xDSL Line Driver	28-TSSOP	12.38	8.25	7.05
LT6301IFE-ND	Dual 500mA Differential xDSL Line Driver	28-TSSOP	15.63	10.38	8.90
LT6550CMS#PBF-ND	3.3V, Triple Video Amplifier*	10-MSOP	3.58	2.50	2.10
LT6550IMS-ND	3.3V, Triple Video Amplifier	10-MSOP	4.38	3.20	2.65
LT6550IMS#PBF-ND	3.3V, Triple Video Amplifier*	10-MSOP	4.38	3.20	2.65
LT6551CMS-ND	3.3V, Quad Video Amplifier	10-MSOP	3.98	2.80	2.35
LT6551CMS#PBF-ND	3.3V, Quad Video Amplifier*	10-MSOP	3.98	2.80	2.35
LT6552CDD-ND	3.3V Single Supply Video Difference Amp	8-DFN	2.63	1.85	1.55
LTC1047CSW#PBF-ND	Dual Chopper-Stabilized Op Amp*	16-SOIC	10.25	6.85	5.45
LTC1049CN8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-Dip	4.00	2.70	2.25
LTC1049CN8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-Dip	4.00	2.70	2.25
LTC1049CS8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-SOIC	5.00	3.35	2.80
LTC1049CS8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-SOIC	5.00	3.35	2.80
LTC1050ACN8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-Dip	6.88	4.60	3.95
LTC1050ACN8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-Dip	6.88	4.60	3.95
LTC1050CN8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-Dip	4.00	2.70	2.25
LTC1050CS8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-SOIC	5.00	3.35	2.80
LTC1050CS8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-SOIC	5.00	3.35	2.80
LTC1051CN8-ND	Dual Chopper-Stabilized Op Amp	8-Dip	7.50	5.00	4.25
LTC1051CN8#PBF-ND	Dual Chopper-Stabilized Op Amp*	8-Dip	7.50	5.00	4.25
LTC1051CSW#PBF-ND	Dual Chopper-Stabilized Op Amp*	16-SOIC	9.00	6.00	4.95
LTC1052CN-ND	Low Noise Chopper-Stabilized Op Amp	14-Dip	8.13	5.42	4.65
LTC1052CN#PBF-ND	Low Noise Chopper-Stabilized Op Amp*	14-Dip	8.13	5.42	4.65
LTC1052CN8#PBF-ND	Low Noise Chopper-Stabilized Op Amp*	8-Dip	7.50	5.00	4.30
LTC1053CN#PBF-ND	Quad Chopper-Stabilized Op Amp*	14-Dip	13.50	9.00	7.80
LTC1053CSW-ND	Quad Chopper-Stabilized Op Amp	18-SOIC	16.13	10.75	8.85
LTC1053CSW#PBF-ND	Quad Chopper-Stabilized Op Amp*	18-SOIC	16.13	10.75	8.85
LTC1150CN8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-Dip	6.88	4.60	3.85
LTC1150CN8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-Dip	6.88	4.60	3.85
LTC1150CS8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-SOIC	8.13	5.40	4.55
LTC1150CS8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-SOIC	8.13	5.40	4.55
LTC1151CN8-ND	Dual, Zero-Drift Op Amp	8-Dip	10.75	7.15	5.95
LTC1151CN8#PBF-ND	Dual, Zero-Drift Op Amp*	8-Dip	10.75	7.15	5.95
LTC1151CSW-ND	Dual, Zero-Drift Op Amp	16-SOIC	12.50	8.35	6.95
LTC1151CSW#PBF-ND	Dual, Zero-Drift Op Amp*	16-SOIC	12.50	8.35	6.95
LTC1152CN8#PBF-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp*	8-Dip	6.00	4.00	3.25
LTC1152CS8-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp	8-SOIC	6.50	4.35	3.50
LTC1152CS8#PBF-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp*	8-SOIC	6.50	4.35	3.50
LTC1152IS8-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp, Industrial Temperature	8-SOIC	7.25	4.82	3.95
LTC1152IS8#PBF-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp, Industrial Temperature*	8-SOIC	7.25	4.82	3.95
LTC1250CN8#PBF-ND	Very Low Noise, Zero-Drift Bridge Amp*	8-Dip	5.50	3.70	2.90
LTC1250CS8#PBF-ND	Very Low Noise, Zero-Drift Bridge Amp*	8-SOIC	6.25	4.20	3.30
LTC2050CS5#TRMPBFCT-ND	6V, Zero-Drift Op Amp*	SOT-23-5	2.88	2.58	2.32
LTC2050CS5#TRMPBFTR-ND	6V, Zero-Drift Op Amp*	SOT-23-5	675.00/500		
LTC2050HS5#TRMCT-ND	6V, Zero-Drift Op Amp	SOT-23-5	3.19	2.85	2.57
LTC2050HS5#TRMPBFCT-ND	6V, Zero-Drift Op Amp*	SOT-23-5	3.19	2.85	2.57
LTC2050HS5#TRMPBFTR-ND	6V, Zero-Drift Op Amp*	SOT-23-5	730.00/500		
LTC2050HS6#TRMCT-ND	6V, Zero-Drift Op Amp	SOT-23-6	3.47	3.10	2.79
LTC2050HS6#TRMPBFCT-ND	6V, Zero-Drift Op Amp*	SOT-23-6	3.47	3.10	2.79
LTC2050HVCS5#TRMCT-ND	12V, High Voltage, Zero-Drift Op Amp	SOT-23-5	3.58	3.20	2.88
LTC2050HVCS5#TRMTR-ND	12V, High Voltage, Zero-Drift Op Amp	SOT-23-5	825.00/500		
LTC2050HVCS5#TRMPBFCT-ND	12V, High Voltage, Zero-Drift Op Amp*	SOT-23-5	3.58	3.20	2.88
LTC2050HVCS5#TRMPBFTR-ND	12V, High Voltage, Zero-Drift Op Amp*	SOT-23-5	825.00/500		
LTC2050HVCS6#TRMCT-ND	12V, High Voltage, Zero-Drift Op Amp	SOT-23-6	3.86	3.45	3.11
LTC2050HVCS6#TRMPBFCT-ND	12V, High Voltage, Zero-Drift Op Amp*	SOT-23-6	3.86	3.45	3.11
LTC2050HVCS6#TRMPBFTR-ND	12V, High Voltage, Zero-Drift Op Amp*	SOT-23-6	875.00/500		
LTC2050HVCS8-ND	12V, High Voltage, Zero-Drift Op Amp	8-SOIC	3.00	2.00	1.55
LTC2050HVCS8#PBF-ND	12V, High Voltage, Zero-Drift Op Amp*	8-SOIC	3.00	2.00	1.55
LTC2050HVCS8TR-ND	12V, High Voltage, Zero-Drift Op Amp	8-SOIC	4000.00/2,500		
LTC2050HVHS6#TRMCT-ND	12V, High Voltage, Zero-Drift Op Amp	SOT-23-6	4.28	3.83	3.45
LTC2050HVIS8-ND	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp.	8-SOIC	3.25	2.16	1.70
LTC2050HVIS8#PBF-ND	12V, High Voltage, Zero-Drift Op Amp, Industrial Temperature*	8-SOIC	3.25	2.16	1.70
LTC2050HVIS8TR-ND	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp.	8-SOIC	4375.01/2,500		
LTC2050IS8-ND	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp.	8-SOIC	2.63	1.75	1.35
LTC2050IS8#PBF-ND	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp*	8-SOIC	2.63	1.75	1.35
LTC2051HMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	4.75	3.16	2.45
LTC2051HVCDD-ND	Dual Zero-Drift Op Amp	8-DFN	5.75	4.11	3.38
LTC2051HVCDD#PBF-ND	Dual Zero-Drift Op Amp*	8-DFN	5.75	4.11	3.38
LTC2051HVHMS8-ND	Dual Zero Drift Op Amp	8-MSOP	6.00	3.99	3.10
LTC2051HVHMS8#PBF-ND	Dual Zero Drift Op Amp*	8-MSOP	6.00	3.99	3.10
LTC2051HVHS8#PBF-ND	Dual Zero-Drift Op Amp*	8-SOIC	5.75	3.82	2.95
LTC2051HVIMS8-ND	Dual Zero-Drift Op Amp	8-MSOP	6.00	3.99	3.10
LTC2051HVIMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	6.00	3.99	3.10
LTC2052CGN#PBF-ND	Quad Zero-Drift Op Amp*	16-SSOP	8.38	5.57	4.20
LTC2052CGNTR-ND	Quad Zero-Drift Op Amp	16-SSOP	10625.00/2,500		
LTC2052CS#PBF-ND	Quad Zero-Drift Op Amp*	14-SOIC	7.75	5.15	3.90
LTC2052CSTR-ND	Quad Zero-Drift Op Amp	14-SOIC	9875.01/2,500		
LTC2052HS-ND	Quad Zero-Drift Op Amp	14-SOIC	8.38	5.57	4.45
LTC2052HS#PBF-ND	Quad Zero-Drift Op Amp*	14-SOIC	8.38	5.57	4.45
LTC2052IS#PBF-ND	Quad Zero-Drift Op Amp*	14-SOIC	8.38	5.57	4.20
LTC2052HVCGNTR-ND	Quad Zero-Drift Op Amp	16-SSOP	13250.01/2,500		
LTC2052HVCS#PBF-ND	Quad Zero-Drift Op Amp*	14-SOIC	9.63	6.40	4.82
LTC2052HVCSTR-ND	Quad Zero-Drift Op Amp	14-SOIC	12125.00/2,500		
LTC2052HVHS#PBF-ND	Quad Zero-Drift Op Amp*	14-SOIC	10.50	6.98	5.75
LTC2052HVIGNTR-ND	Quad Zero-Drift Op Amp, Ind. Temp.	16-SSOP	13999.95/2,500		
LTC2052HVISTR-ND	Quad Zero-Drift Op Amp, Ind. Temp.	14-SOIC	13250.01/2,500		
LTC2052IGNTR-ND	Quad Zero-Drift Op Amp, Ind. Temp.	16-SSOP	11375.04/2,500		
LTC2054CS5#TRMPBFCT-ND	Single Zero-Drift Op Amp*	SOT-23-5	2.49	2.23	2.01
LTC2054CS5#TRMPBFTR-ND	Single Zero-Drift Op Amp*	SOT-23-5	610.00/500		
LTC2054HS5#TRMPBFCT-ND	Single Zero-Drift Op Amp*	SOT-23-5	2.94	2.63	2.37
LTC2054HS5#TRMPBFTR-ND	Single Zero-Drift Op Amp*	SOT-23-5	710.00/500		
LTC2055CMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	3.20	2.29	1.88
LTC2055HMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	3.83	2.73	2.25
LTC2055HVCMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	4.00	2.86	2.35
LTC6078ACMS8#PBF-ND	MPU Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	4.50	3.21	2.64
LTC6078AIMS8#PBF-ND	MPU Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	5.18	3.69	3.04
LTC6078CDD#PBF-ND	MPU Precision, Dual CMOS R/R In/Out Amp*	10-DFN	2.98	2.12	1.75
LTC6078CMS8#PBF-ND	MPU Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	2.98	2.12	1.75
LTC6078IDD#PBF-ND	MPU Precision, Dual CMOS R/R In/Out Amp*	10-DFN	3.40	2.42	2.00
LTC6078IMS8#PBF-ND	MPU Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	3.40	2.42	2.00
LTC6079CDHC#PBF-ND	MPU Precision, Quad CMOS R/R In/Out Amp*	16-DFN	5.05	3.60	2.97
LTC6079CGN#PBF-ND	MPU Precision, Quad CMOS R/R In/Out Amp*	16-SSOP	5.05	3.60	2.97
LTC6079IDHC#PBF-ND	MPU Precision, Quad CMOS R/R In/Out Amp*	16-DFN	5.80	4.14	3.42
LTC6079IGN#PBF-ND	MPU Precision, Quad CMOS R/R In/Out Amp*	16-SSOP	5.80	4.14	3.42
LTC6081CDD#PBF-ND	Precision, Dual CMOS R/R In/Out Amp*	10-DFN	3.48	2.63	2.18
LTC6081CMS8#PBF-ND	Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	3.48	2.63	2.18
LTC6081HMS8#PBF-ND	Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	4.20	3.18	2.63
LTC6081IDD#PBF-ND	Precision, Dual CMOS R/R In/Out Amp*	10-DFN	4.20	3.18	2.63
LTC6081IMS8#PBF-ND	Precision, Dual CMOS R/R In/Out Amp*	8-MSOP	4.20	3.18	2.63
LTC6082CDHC#PBF-ND	Precision, Quad CMOS R/R In/Out Amp*	16-DFN	5.95	4.49	3.71
LTC6082CGN#PBF-ND	Precision, Quad CMOS R/R In/Out Amp*	16-SSOP	5.95	4.49	3.71
LTC6082HGN#PBF-ND	Precision, Quad CMOS R/R In/Out Amp*	16-SSOP	7.20	5.45	4.50
LTC6082IDHC#PBF-ND	Precision, Quad CMOS R/R In/Out Amp*	16-DFN	7.20	5.45	4.50
LTC6082IGN#PBF-ND	Precision, Quad CMOS R/R In/Out Amp*	16-SSOP	7.20	5.45	4.50
LTC6087CDD#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	10-DFN	1.83	1.38	1.14
LTC6087CMS8#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	8-MSOP	1.83	1.38	1.14
LTC6087HDD#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	10-DFN	2.23	1.68	1.39
LTC6087HMS8#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	8-MSOP	2.23	1.68	1.39
LTC6088CDHC#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	16-DFN	2.80	2.11	1.74
LTC6088CGN#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	16-SSOP	2.80	2.11	1.74
LTC6088HDHC#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	16-DFN	3.40	2.56	2.12
LTC6088HGN#PBF-ND	Dual 14MHz CMOS R/R In/Out Amp*	16-SSOP	3.40	2.56	2.12
LTC6101HVACS5#TRMPBFCT-ND	High Voltage, High Side Current Sense Amp*	TSOT-23-5	4.03	3.60	3.24
LTC6101HVACS5#TRMPBFTR-ND	High Voltage, High Side Current Sense Amp*	TSOT-23-5	1055.00/500		
LTC6101HVAHS5#TRMPBFCT-ND	High Voltage, High Side Current Sense Amp*	TSOT-23-5	5.40	4.83	4.35
LTC6101HVAHS5#TRMPBFTR-ND	High Voltage, High Side Current Sense Amp*	TSOT-23-5	1420.00/500		
LTC6101HVAIS5#TRMPBFCT-ND	High Voltage, High Side Current Sense Amp*	TSOT-23-5	4.82	4.30	3.87
LTC6101HVAIS5#TRMPBFTR-ND	High Voltage, High Side Current Sense Amp*	TSOT-23-5	1265.00/500		
LTC6102CDD#PBF-ND	Precision Zero Drift Current Sense Amp*	8-DFN	3.45	2.44	2.02
LTC6102CMS8#PBF-ND	Precision Zero Drift Current Sense Amp*	8-MSOP	3.45	2.44	2.02
LTC6102HDD#PBF-ND	Precision Zero Drift Current Sense Amp*	8-DFN	4.55	3.24	2.68
LTC6102HMS8#PBF-ND	Precision Zero Drift Current Sense Amp*	8-MSOP	4.55	3.24	2.68
LTC6102HVCDD#PBF-ND	Precision Zero Drift Current Sense Amp*	8-DFN	4.15	2.93	2.42
LTC6102HVCMS8#PBF-ND	Precision Zero Drift Current Sense Amp*	8-MSOP	4.15	2.93	2.42
LTC6102HVHDD#PBF-ND	Precision Zero Drift Current Sense Amp*	8-DFN	5.45	3.89	3.21
LTC6102HVHMS8#PBF-ND	Precision Zero Drift Current Sense Amp*	8-MSOP	5.45	3.89	3.21
LTC6102HVIDD#PBF-ND	Precision Zero Drift Current Sense Amp*	8-DFN	4.78	3.41	2.81
LTC6102HVIMS8#PBF-ND	Precision Zero Drift Current Sense Amp*	8-MSOP	4.78	3.41	2.81
LTC6102IDD#PBF-ND	Precision Zero Drift Current Sense Amp*	8-DFN	3.98	2.83	2.34
LTC6102IMS8#PBF-ND	Precision Zero Drift Current Sense Amp*	8-MSOP	3.98	2.83	2.34
LTC6240CS8#PBF-ND	Single 18MHz, Low Noise, R/R Out Op Amp*	8-SOIC	1.65	1.21	1.00
LTC6240HS8#PBF-ND	Single 18MHz, Low Noise, R/R Out Op Amp*	8-SOIC	1.85	1.35	1.12
LTC6240HVCS8#PBF-ND	Single 18MHz, Low Noise, R/R Out Op Amp*	8-SOIC	3.08	2.19	1.81
LTC6240HVHS8#PBF-ND	Single 18MHz, Low Noise, R/R Out Op Amp*	8-SOIC	3.38	2.41	1.99
LTC6240HVIS8#PBF-ND	Single 18MHz, Low Noise, R/R Out Op Amp, Ind. Temp.*	8-SOIC	3.38	2.41	1.99
LTC6240IS8#PBF-ND	Single 18MHz, Low Noise, R/R Out Op Amp, Ind. Temp.*	8-SOIC	1.90	1.35	1.12
LTC6400CUD-20#PBF-ND	High Speed Diff. Amp, Processes Signals from DC to 300MHz*	16-QFN	6.40	4.57	3.76
LTC6400IUD-20#PBF-ND	High Speed Diff. Amp, Processes Signals from DC to 300MHz*	16-QFN	7.35	5.26	4.33
LTC6401CUD-20#PBF-ND	High Speed Diff. Amp, Processes Signals from DC to 140MHz*	16-QFN	5.90	4.21	3.47
LTC6401IUD-20#PBF-ND	High Speed Diff. Amp, Processes Signals from DC to 140MHz*	16-QFN	6.78	4.85	3.99
LTC6910-1CTS8#TRMPBFCT-ND	Digitally Controlled PGA*	SOT-23-8	2.77	2.48	2.23
LTC6910-1CTS8#TRMPBFTR-ND	Digitally Controlled PGA*	SOT-23-8	790.00/500		
LTC6910-2CTS8#TRMCT-ND	Digitally Controlled PGA	TSOT-23-8	2.77	2.48	2.23
LTC6910-2CTS8#TRMPBFCT-ND	Digitally Controlled PGA*	TSOT-23-8	2.77	2.48	2.23
LTC6910-2CTS8#TRMPBFTR-ND	Digitally Controlled PGA*	TSOT-23-8	790.00/500		

Differential Amplifier

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1187CN8-ND	Adjustable Low Power Video Difference Amp	8-Dip	5.50	3.67	2.95
LT1187CS8-ND	Adjustable Low Power Video Difference Amp	8-SOIC	6.13	4.08	3.45
LT1187CS8#PBF-ND	Adjustable Low Power Video Difference Amp*	8-SOIC	6.13	4.08	3.45
LT1193CN8-ND	Adjustable Gain Video Difference Amp	8-Dip	5.50	3.67	2.95
LT1193CN8#PBF-ND	Adjustable Gain Video Difference Amp*	8-Dip	5.50	3.67	2.95
LT1193CS8-ND	Adjustable Gain Video Difference Amp	8-SOIC	6.13	4.08	3.45
LT1193CS8#PBF-ND	Adjustable Gain Video Difference Amp*	8-SOIC	6.13	4.08	3.45
LT1193IS8-ND	Adjustable Gain Video Difference Amp	8-SOIC	6.75	4.49	3.90
LT1568CGN#PBF-ND	Low Noise High Frequency Filter Building Block*	16-SSOP	8.50	5.65	4.70
LT1993CUD-2#PBF-ND	800MHz Low Distortion, Low Noise Differential Amp/ADC Driver*	16-QFN	5.88	4.20	3.45
LT1993CUD-4#PBF-ND	900MHz Low Distortion, Low Noise Differential Amp/ADC Driver*	16-QFN	5.88	4.20	3.45
LT1993CUD-10#PBF-ND	700MHz Low Distortion, Low Noise Differential Amp/ADC Driver*	16-QFN	5.88	4.20	3.45
LT1993IUD-2#PBF-ND	800MHz Low Distortion, Low Noise Differential Amp/ADC Driver*	16-QFN	6.75	4.65	3.97

* ***RoHS Compliant***

(Continued)

LINEAR TECHNOLOGY Digi-Reel® AMPLIFIERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1993IUD-4#PBF-ND	900MHz Low Distortion, Low Noise Differential Amp/ADC Driver*	16-QFN	6.75	4.65	3.97
LT1993IUD-10#PBF-ND	700MHz Low Distortion, Low Noise Differential Amp/ADC Driver*	16-QFN	6.75	4.65	3.97
LT1994CDD#PBF-ND	Low Noise, Low Distortion Fully Diff. In/Out Amp/Driver*	8-DFN	3.30	2.35	1.95
LT1994IDD#PBF-ND	Low Noise, Low Distortion Fully Diff. In/Out Amp/Driver*	8-DFN	3.80	2.70	2.25
LT6552CDD#PBF-ND	3.3V Single Supply Video Difference Amp*	8-DFN	2.63	1.85	1.55
LT6552CS8#PBF-ND	3.3V Single Supply Video Difference Amp*	8-SOIC	2.20	1.55	1.30
LT6552IDD#PBF-ND	3.3V Single Supply Video Difference Amp*	8-DFN	3.13	2.20	1.85
LT6552IS8#PBF-ND	3.3V Single Supply Video Difference Amp*	8-SOIC	2.70	1.90	1.60
LT6600CS8-20#PBF-ND	Very Low Noise, Diff. Amp and 20MHz Lowpass Filter*	8-SOIC	5.88	3.91	3.40
LT6600IS8-20#PBF-ND	Very Low Noise, Diff. Amp and 20MHz Lowpass Filter*	8-SOIC	6.75	4.49	3.90
LTC1992-1CMS8-ND	Gain of 1 Fully Differential In/Out Amp/Driver	8-MSOP	7.88	5.23	4.35
LTC1992-1CMS8#PBF-ND	Gain of 1 Fully Differential In/Out Amp/Driver*	8-MSOP	7.88	5.23	4.35
LTC1992-2CMS8-ND	Gain of 2 Fully Differential In/Out Amp/Driver	8-MSOP	7.88	5.23	4.35
LTC1992-2CMS8#PBF-ND	Gain of 2 Fully Differential In/Out Amp/Driver*	8-MSOP	7.88	5.23	4.35
LTC1992CMS8#PBF-ND	Fully Differential In/Out Amp/Driver*	8-MSOP	3.30	2.80	2.15
LTC6400CUD-26#PBF-ND	1.8GHz, Low Noise, Diff. ADC Amp/Driver*	16-QFN	6.40	4.57	3.76
LTC6400IUD-26#PBF-ND	1.8GHz, Low Noise, Diff. ADC Amp/Driver*	16-QFN	7.35	5.26	4.33
LTC6401CUD-26#PBF-ND	1.3GHz, Low Noise, Diff. ADC Amp/Driver*	16-QFN	5.90	4.21	3.47
LTC6401IUD-26#PBF-ND	1.3GHz, Low Noise, Diff. ADC Amp/Driver*	16-QFN	6.78	4.85	3.99
LTC6406CUD#PBF-ND	3GHz, Low Noise, R/R In Diff. Amp/Driver*	16-QFN	6.88	4.91	4.05
LTC6406IUD#PBF-ND	3GHz, Low Noise, R/R In Diff. Amp/Driver*	16-QFN	7.58	5.41	4.47

Instrumentation Amplifier

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1101ACN8-ND	Precision Micropower Single Instrumentation Amp	8-Dip	12.25	8.17	6.95
LT1101ACN8#PBF-ND	Precision Micropower Single Instrumentation Amp*	8-Dip	12.25	8.17	6.95
LT1101AIN8#PBF-ND	Prec. MPU Single Instrument Amp, Ind. Temp.*	8-Dip	15.25	10.17	8.70
LT1101CN8-ND	Precision Micropower Single Instrumentation Amp	8-Dip	8.75	5.83	4.95
LT1101CN8#PBF-ND	Precision Micropower Single Instrumentation Amp*	8-Dip	8.75	5.83	4.95
LT1101IN8-ND	Prec. MPU Single Instrumentation Amp, Ind. Temp.	8-Dip	10.88	7.25	6.25
LT1101IN8#PBF-ND	Prec. MPU Single Instrumentation Amp, Ind. Temp.*	8-Dip	10.88	7.25	6.25
LT1101SW#PBF-ND	Precision MPU Single Instrumentation Amp*	16-SOIC	10.50	7.00	5.95
LT1102ACN8-ND	Precision MPU Instrumentation Amp, JFET Input	8-Dip	12.25	8.17	6.95
LT1102CN8-ND	Precision MPU Instrumentation Amp, JFET Input	8-Dip	8.75	5.83	4.95
LT1102CN8#PBF-ND	Precision MPU Instrumentation Amp, JFET Input*	8-Dip	8.75	5.83	4.95
LT1167ACS8-ND	Programmable Precision Instrumentation Amp	8-SOIC	11.13	7.39	5.75
LT1167ACS8#PBF-ND	Programmable Precision Instrumentation Amp*	8-SOIC	11.13	7.39	5.75
LT1167AIS8-ND	Programmable Precision Instrumentation Amp	8-SOIC	12.75	8.47	6.65
LT1167AIS8#PBF-ND	Programmable Precision Instrumentation Amp*	8-SOIC	12.75	8.47	6.65
LT1167CN8#PBF-ND	Programmable Precision Instrumentation Amp*	8-Dip	6.38	4.24	3.30
LT1167CS8#PBF-ND	Programmable Precision Instrumentation Amp*	8-SOIC	6.38	4.24	3.30
LT1167IS8#PBF-ND	Programmable Precision Instrumentation Amp*	8-SOIC	7.38	4.90	3.85
LT1789CS8-1#PBF-ND	Micropower Single R/R Out Instrumentation Amp*	8-SOIC	6.38	4.24	3.30
LT1789CS8-10#PBF-ND	Micropower Single R/R Out Instrumentation Amp*	8-SOIC	6.38	4.55	3.75
LT1789IS8-1#PBF-ND	Micropower Single R/R Out Instrumentation Amp*	8-SOIC	7.38	4.90	3.85
LT1920CN8-ND	Precision Instrumentation Amplifier	8-Dip	6.25	4.15	3.25
LT1920CN8#PBF-ND	Precision Instrumentation Amplifier*	8-Dip	6.25	4.15	3.25
LT1920CS8#PBF-ND	Precision Instrumentation Amplifier*	8-SOIC	6.25	4.15	3.25
LTC1100CN8#PBF-ND	Precision, Chopper-Stabilized Instrument Amp*	8-Dip	11.25	7.50	6.45
LTC1100CSW-ND	Precision, Chopper-Stabilized Instrument Amp	16-SOIC	13.13	8.75	7.40
LTC1100CSW#PBF-ND	Precision, Chopper-Stabilized Instrument Amp*	16-SOIC	13.13	8.75	7.40
LTC2053CMS8#PBF-ND	Prec. R-R I/O Zero-Drift Instrumentation Amp*	8-MSOP	6.38	4.24	3.30
LTC2053IMS8#PBF-ND	Prec. R-R I/O Zero-Drift Instrumentation Amp*	8-MSOP	7.38	4.90	3.85
LTC6800HMS8#PBF-ND	Rail-to-Rail In/Out Instrumentation Amp*	8-MSOP	3.10	2.25	1.85

Comparator

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT319AN#PBF-ND	Dual Comparator*	14-Dip	3.38	2.25	1.95
LT1011ACN8#PBF-ND	5V Precision Voltage Comparator*	8-Dip	5.25	3.50	2.85
LT1011AIS8-ND	5V Precision Voltage Comparator	8-SOIC	5.75	3.82	3.15
LT1011AIS8#PBF-ND	5V Precision Voltage Comparator*	8-SOIC	5.75	3.82	3.15
LT1011CN8-ND	5V Precision Voltage Comparator	8-Dip	2.38	1.58	1.40
LT1011CN8#PBF-ND	5V Precision Voltage Comparator*	8-Dip	2.38	1.58	1.40
LT1011CS8-ND	5V Precision Voltage Comparator	8-SOIC	3.00	2.00	1.70
LT1011CS8#PBF-ND	5V Precision Voltage Comparator*	8-SOIC	3.00	2.00	1.70
LT1016CN8-ND	High-Speed, 10nS Comparator	8-Dip	5.50	3.67	2.95
LT1016CN8#PBF-ND	High-Speed, 10nS Comparator*	8-Dip	5.50	3.67	2.95
LT1016CS8-ND	High-Speed, 10nS Comparator	8-SOIC	6.13	4.08	3.20
LT1016CS8#PBF-ND	High-Speed, 10nS Comparator*	8-Dip	6.13	4.08	3.20
LT1017CN8#PBF-ND	MPU Dual Comparator, 30µA Supply Current*	8-Dip	3.63	2.42	2.10
LT1017CS8-ND	MPU Dual Comparator, 30µA Supply Current	8-SOIC	4.00	2.67	2.30
LT1017CS8#PBF-ND	MPU Dual Comparator, 30µA Supply Current*	8-SOIC	4.00	2.67	2.30
LT1017IS8#PBF-ND	MPU Dual Comparator, 30µA Supply Current*	8-SOIC	4.88	3.25	2.75
LT1018CN8-ND	MPU Dual Comparator, 110µA Supply Current	8-Dip	3.38	2.25	1.95
LT1018CN8#PBF-ND	MPU Dual Comparator, 110µA Supply Current*	8-Dip	3.38	2.25	1.95
LT1018CS8-ND	MPU Dual Comparator, 110µA Supply Current	8-SOIC	3.75	2.50	2.20
LT1018CS8#PBF-ND	MPU Dual Comparator, 110µA Supply Current*	8-SOIC	3.75	2.50	2.20
LT1116CN8-ND	Single Supply 12nS Ground-Sensing Comparator	8-Dip	6.00	4.00	3.50
LT1116CN8#PBF-ND	Single Supply 12nS Ground-Sensing Comparator*	8-Dip	6.00	4.00	3.50
LT1116CS8-ND	Single Supply 12nS Ground-Sensing Comparator	8-SOIC	6.63	4.42	3.75
LT1116CS8#PBF-ND	Single Supply 12nS Ground-Sensing Comparator*	8-SOIC	6.63	4.42	3.75
LT1394CS8#PBF-ND	7nS, Low Power Comparator*	8-SOIC	5.13	3.41	2.65
LT1394IS8#PBF-ND	7nS, Low Power Comparator, Ind. Temp.*	8-SOIC	5.75	3.82	2.90
LT1671CS8-ND	60nS Low Power Ground-Sensing Comparator	8-SOIC	3.50	2.33	1.80
LT1671CS8#PBF-ND	60nS Low Power Ground-Sensing Comparator*	8-SOIC	3.50	2.33	1.80
LT1711CMS8-ND	Single Rail-to-Rail, In/Out Comparator	8-MSOP	4.38	2.91	2.50
LT1711CMS8#PBF-ND	Single Rail-to-Rail, In/Out Comparator*	8-MSOP	4.38	2.91	2.50
LT1711IMS8-ND	Single R/R, In/Out Comparator, Ind. Temp.	8-MSOP	4.75	3.16	2.65
LT1711IMS8#PBF-ND	Single R/R, In/Out Comparator, Ind. Temp.*	8-MSOP	4.75	3.16	2.65
LT1713IMS8-ND	Single, Low Power, R/R In/Out Comparator	8-MSOP	4.38	2.91	2.35
LT1713IMS8#PBF-ND	Single, Low Power, R/R In/Out Comparator*	8-MSOP	4.38	2.91	2.35
LT1714CGN#PBF-ND	Dual Rail-to-Rail, In/Out Comparator*	16-SSOP	6.63	4.40	3.32
LT1714IGN#PBF-ND	Dual R/R, In/Out Comparator, Ind. Temp.*	16-SSOP	7.13	4.74	3.57
LT1715CMS-ND	Dual Rail-to-Rail, In/Out Comparator	10-MSOP	6.88	4.57	3.65
LT1715CMS#PBF-ND	Dual Rail-to-Rail, In/Out Comparator*	10-MSOP	6.88	4.57	3.65
LT1716CS5#TRMCT-ND	44V, Micropower Precision Rail-to-Rail Comparator	SOT-23-5	2.49	2.23	2.01
LT1716CS5#TRMTR-ND	44V, Micropower Precision R/R Comparator	SOT-23-5	665.00/500		
LT1716CS5#TRMPBFCT-ND	44V, Micropower Precision R/R Comparator*	SOT-23-5	2.49	2.23	2.01
LT1716CS5#TRMPBFTR-ND	44V, Micropower Precision R/R Comparator*	SOT-23-5	665.00/500		
LT1716HS5#TRMPBFCT-ND	44V, Micropower Precision R/R Comparator*	SOT-23-5	2.91	2.60	2.34
LT1716HS5#TRMPBFTR-ND	44V, Micropower Precision R/R Comparator*	SOT-23-5	790.00/500		
LT1716IS5#TRMCT-ND	44V, Micropower Precision R/R Comparator	SOT-23-5	2.91	2.60	2.34
LT1716IS5#TRMTR-ND	44V, Micropower Precision R/R Comparator	SOT-23-5	790.00/500		
LT1716IS5#TRMPBFCT-ND	44V, Micropower Precision R/R Comparator*	SOT-23-5	2.91	2.60	2.34
LT1716IS5#TRMPBFTR-ND	44V, Micropower Precision R/R Comparator*	SOT-23-5	790.00/500		
LT1719CS6#TRMPBFCT-ND	Single Rail-to-Rail, In/Out Comparator*	SOT-23-6	3.47	3.10	2.79
LT1719CS6#TRMPBFTR-ND	Single Rail-to-Rail, In/Out Comparator*	SOT-23-6	835.00/500		
LT1719CS8-ND	Single Rail-to-Rail, In/Out Comparator	8-SOIC	4.00	2.66	2.10
LT1719CS8#PBF-ND	Single Rail-to-Rail, In/Out Comparator*	8-SOIC	4.00	2.66	2.10
LT1719IS6#TRMPBFCT-ND	Single R/R, In/Out Comparator, Ind. Temp.*	SOT-23-6	3.89	3.48	3.13
LT1719IS6#TRMPBFTR-ND	Single R/R, In/Out Comparator, Ind. Temp.*	SOT-23-6	910.00/500		
LT1720CMS8-ND	Dual Rail-to-Rail, In/Out Comparator	8-MSOP	6.50	4.32	3.45
LT1720CMS8#PBF-ND	Dual Rail-to-Rail, In/Out Comparator*	8-MSOP	6.50	4.32	3.45
LT1720CS8-ND	Dual Rail-to-Rail, In/Out Comparator	8-SOIC	6.00	3.99	3.00
LT1720CS8#PBF-ND	Dual Rail-to-Rail, In/Out Comparator*	8-SOIC	6.00	3.99	3.00
LT1720IS8-ND	Dual Rail-to-Rail, In/Out Comparator, Ind. Temp.	8-SOIC	7.00	4.65	3.50
LT1720IS8#PBF-ND	Dual Rail-to-Rail, In/Out Comparator, Ind. Temp.*	8-SOIC	7.00	4.65	3.50
LT1721CGN-ND	Quad Rail-to-Rail, In/Out Comparator	16-SSOP	9.38	6.23	5.00
LT1721CGN#PBF-ND	Quad Rail-to-Rail, In/Out Comparator*	16-SSOP	9.38	6.23	5.00
LT1721CS#PBF-ND	Quad Rail-to-Rail, In/Out Comparator*	16-SOIC	9.00	5.98	4.80
LT6700CS6-1#TRMCT-ND	Micropower, Low Voltage, Dual Comparator	TSOT-23-6	3.05	2.73	2.46
LT6700CS6-1#TRMPBFCT-ND	Micropower, Low Voltage, Dual Comparator*	TSOT-23-6	3.05	2.73	2.46
LT6700CS6-1#TRMPBFTR-ND	Micropower, Low Voltage, Dual Comparator*	TSOT-23-6	865.00/500		
LT6700CS6-2#TRMCT-ND	Micropower, Low Voltage, Dual Comparator	TSOT-23-6	3.05	2.73	2.46
LT6700CS6-2#TRMPBFCT-ND	Micropower, Low Voltage, Dual Comparator*	TSOT-23-6	3.05	2.73	2.46
LT6700CS6-2#TRMPBFTR-ND	Micropower, Low Voltage, Dual Comparator*	TSOT-23-6	865.00/500		
LT6700CS6-3#TRMPBFCT-ND	Micropower, Low Voltage, Dual Comparator*	TSOT-23-6	3.05	2.73	2.46
LT6700CS6-3#TRMPBFTR-ND	Micropower, Low Voltage, Dual Comparator*	TSOT-23-6	865.00/500		
LT6703CDC-2#TRMPBFCT-ND	Micropower, Low Voltage Comparator*	3-DFN	1.79	1.60	1.44
LT6703CDC-2#TRMPBFTR-ND	Micropower, Low Voltage Comparator*	3-DFN	465.00/500		
LT6703CDC-3#TRMPBFCT-ND	Micropower, Low Voltage Comparator*	3-DFN	1.79	1.60	1.44
LT6703CDC-3#TRMPBFTR-ND	Micropower, Low Voltage Comparator*	3-DFN	465.00/500		
LT6703HDC-2#TRMPBFCT-ND	Micropower, Low Voltage Comparator*	3-DFN	2.16	1.93	1.74
LT6703HDC-2#TRMPBFTR-ND	Micropower, Low Voltage Comparator*	3-DFN	565.00/500		
LT6703HDC-3#TRMPBFCT-ND	Micropower, Low Voltage Comparator*	3-DFN	2.16	1.93	1.74
LT6703HDC-3#TRMPBFTR-ND	Micropower, Low Voltage Comparator*	3-DFN	565.00/500		
LT6703IDC-2#TRMPBFCT-ND	Micropower, Low Voltage Comparator*	3-DFN	1.99	1.78	1.60
LT6703IDC-2#TRMPBFTR-ND	Micropower, Low Voltage Comparator*	3-DFN	520.00/500		
LT6703IDC-3#TRMPBFCT-ND	Micropower, Low Voltage Comparator*	3-DFN	1.99	1.78	1.60
LT6703IDC-3#TRMPBFTR-ND	Micropower, Low Voltage Comparator*	3-DFN	520.00/500		
LTC1040CN#PBF-ND	Dual Micropower Comparator*	18-Dip	3.88	2.58	2.20
LTC1042CN8#PBF-ND	CMOS Window Comparator*	8-Dip	3.38	2.25	1.90
LTC1440CMS8-ND	Ultra Low Power Single Comparator	8-MSOP	3.13	2.15	1.70
LTC1440CMS8#PBF-ND	Ultra Low Power Single Comparator*	8-MSOP	3.13	2.15	1.70
LTC1440CN8-ND	Ultra Low Power Single Comparator	8-Dip	2.75	1.85	1.50
LTC1440CN8#PBF-ND	Ultra Low Power Single Comparator*	8-Dip	2.75	1.85	1.50
LTC1440CS8-ND	Ultra Low Power Single Comparator	8-SOIC	2.75	1.85	1.50
LTC1440CS8#PBF-ND	Ultra Low Power Single Comparator*	8-SOIC	2.75	1.85	1.50
LTC1440IN8-ND	Ultra Low Power Single Comparator, Ind. Temp.	8-Dip	3.25	2.20	1.75
LTC1440IS8-ND	Ultra Low Power Single Comparator, Ind. Temp.	8-SOIC	3.25	2.20	1.75
LTC1440IS8#PBF-ND	Ultra Low Power Single Comparator, Ind. Temp*	8-SOIC	3.25	2.20	1.75
LTC1441CS8-ND	Ultra Low Power Dual Comparator.	8-SOIC	3.38	2.25	1.85
LTC1441CS8#PBF-ND	Ultra Low Power Dual Comparator*	8-SOIC	3.38	2.25	1.85
LTC1441IS8-ND	Ultra Low Power Dual Comparator, Ind. Temp.	8-SOIC	4.00	2.66	2.20
LTC1441IS8#PBF-ND	Ultra Low Power Dual Comparator, Ind. Temp*.	8-SOIC	4.00	2.66	2.20
LTC1442CS8#PBF-ND	Ultra Low Power Dual Comparator*	8-SOIC	4.13	2.74	2.25
LTC1442IS8#PBF-ND	Ultra Low Power Dual Comparator, Ind. Temp*	8-SOIC	4.88	3.24	2.70
LTC1443CS-ND	Ultra Low Power Quad Comparator	16-SOIC	4.75	3.16	2.50
LTC1443CN#PBF-ND	Ultra Low Power Quad Comparator, Ind. Temp*	16-Dip	4.75	3.16	2.50
LTC1443IN-ND	Ultra Low Power Quad Comparator, Ind. Temp.	16-Dip	5.50	3.66	3.05
LTC1443IS#PBF-ND	Ultra Low Power Quad Comparator, Ind. Temp*	16-SOIC	5.50	3.66	3.05
LTC1444CN-ND	Ultra Low Power Quad Comparator	16-Dip	4.75	3.16	2.50
LTC1444CS#PBF-ND	Ultra Low Power Quad Comparator*	16-SOIC	4.75	3.16	2.50
LTC1444IN-ND	Ultra Low Power Quad Comparator, Ind. Temp.	16-Dip	5.50	3.66	3.05
LTC1444IS#PBF-ND	Ultra Low Power Quad Comparator, Ind. Temp*	16-SOIC	5.50	3.66	3.05
LTC1445IN-ND	Ultra Low Power Quad Comparator, Ind. Temp.	16-Dip	5.50	3.66	3.05
LTC1445IS#PBF-ND	Ultra Low Power Quad Comparator, Ind. Temp*	16-SOIC	5.50	3.66	3.05
LTC1540CDD-ND	Nanopower Comparator with Reference	8-DFN	3.63	2.59	2.13
LTC1540CMS8-ND	Nanopower Comparator with Reference	8-MSOP	3.38	2.25	1.85
LTC1540CMS8#PBF-ND	Nanopower Comparator with Reference*	8-MSOP	3.38	2.25	1.85
LTC1540CS8-ND	Nanopower Comparator with Reference	8-SOIC	3.00	2.00	1.65
LTC1540CS8#PBF-ND	Nanopower Comparator with Reference*	8-SOIC	3.00	2.00	1.65
LTC1540IS8#PBF-ND	Nanopower Comparator with Reference*	8-SOIC	3.50	2.33	1.90
LTC1542CS8-ND	Micropower Op Amp, Comparator and Reference	8-SOIC	2.40	1.70	1.50
LTC1542CS8#PBF-ND	Micropower Op Amp, Comparator and Reference*	8-SOIC	2.40	1.70	1.50
LTC1842CS8#PBF-ND	Ultra Low Power Dual Comparator with Reference*	8-SOIC	2.88	1.91	1.50
LTC1843CS8-ND	Ultra Low Power Dual Comparator with Reference	8-SOIC	2.88	1.91	1.50
LTC1843CS8#PBF-ND	Ultra Low Power Dual Comparator with Reference*	8-SOIC	2.88	1.91	1.50
LTC1843IS8#PBF-ND	Ultra Low Power Dual Comparator with Reference*	8-SOIC	3.38	2.25	1.75
LTC1998CS6#TRMPBFCT-ND	Programmable Low Battery Voltage Detector*	SOT-23-6	2.49	2.23	2.01
LTC1998CS6#TRMPBFTR-ND	Programmable Low Battery Voltage Detector*	SOT-23-6	610.00/500		

LINEAR TECHNOLOGY FILTERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT6600CS8-2.5-ND	Very Low Noise, Diff. Amp with 2.5MHz Low Pass Filter	8-SOIC	5.88	3.91	3.40
LT6600CS8-10#PBF-ND	Very Low Noise, Diff. Amp with 10MHz Low Pass Filter*	8-SOIC	5.88	3.91	3.40
LT6600CS8-20-ND	Very Low Noise, Diff. Amp with 20MHz Low Pass Filter	8-SOIC	5.88	3.91	3.40
LT6600IS8-10#PBF-ND	Very Low Noise, Diff. Amp with 10MHz Low Pass Filter*	8-SOIC	6.75	4.49	3.90
LTC1059CN-ND	Switched-Capacitor Universal Filter Building Block	14-Dip	5.63	3.75	3.25
LTC1059CN#PBF-ND	Switched-Capacitor Universal Filter Building Block*	14-Dip	5.63	3.75	3.25
LTC1059CS#PBF-ND	Switched-Capacitor Universal Filter Building Block*	14-SOIC	6.25	4.20	3.40

*** RoHS Compliant**

(Continued)

LINEAR TECHNOLOGY FILTERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1060ACN#PBF-ND	Dual Switched-Cap Universal Filter Building Block*	20-Dip	13.75	9.20	8.00
LTC1060CN-ND	Dual Switched-Cap Universal Filter Building Block	20-Dip	6.88	4.60	3.90
LTC1060CN#PBF-ND	Dual Switched-Cap Universal Filter Building Block*	20-Dip	6.88	4.60	3.90
LTC1060CSW-ND	Dual Switched-Cap Universal Filter Building Block	20-SOIC	7.50	5.00	4.25
LTC1060CSW#PBF-ND	Dual Switched-Cap Universal Filter Building Block*	20-SOIC	7.50	5.00	4.25
LTC1062CN8-ND	5th Order Lowpass Filter	8-Dip	6.13	4.10	3.30
LTC1062CN8#PBF-ND	5th Order Lowpass Filter*	8-Dip	6.13	4.10	3.30
LTC1062CSW#PBF-ND	5th Order Lowpass Filter*	16-SOIC	6.25	4.20	3.55
LTC1063CN8#PBF-ND	Clock-Tunable 5th Order, Lowpass Butterworth Filter*	8-Dip	10.00	6.70	5.75
LTC1063CSW-ND	Clock-Tunable 5th Order, Lowpass Butterworth Filter	16-SOIC	10.75	7.20	6.15
LTC1063CSW#PBF-ND	Clock-Tunable 5th Order, Lowpass Butterworth Filter*	16-SOIC	10.75	7.20	6.15
LTC1064-1CN-ND	8th Order, Clock Sweepable Elliptic Lowpass Filter	14-Dip	22.50	15.00	12.90
LTC1064-1CN#PBF-ND	8th Order, Clock Sweepable Elliptic Lowpass Filter*	14-Dip	22.50	15.00	12.90
LTC1064-2CN#PBF-ND	8th Order, High Freq. Butterworth Lowpass Filter*	14-Dip	20.00	13.35	11.25
LTC1064-2CSW#PBF-ND	8th Order, High Freq. Butterworth Lowpass Filter*	16-SOIC	27.50	18.35	15.50
LTC1064-3CSW-ND	8th Order, High Freq. Linear Phase Lowpass Filter	16-SOIC	20.00	13.35	11.30
LTC1064-3CSW#PBF-ND	8th Order, High Freq. Linear Phase Lowpass Filter*	16-SOIC	20.00	13.35	11.30
LTC1064-4CSW#PBF-ND	8th Order, Clock Sweepable Cauer Lowpass Filter*	16-SOIC	31.25	20.85	17.65
LTC1064CN-ND	Quad, Universal Filter Building Block	24-Dip	15.00	10.00	8.40
LTC1064CN#PBF-ND	Quad, Universal Filter Building Block*	24-Dip	15.00	10.00	8.40
LTC1064CSW#PBF-ND	Quad, Universal Filter Building Block*	24-SOIC	18.00	12.00	9.55
LTC1065CN8#PBF-ND	5th Order, Clock-Tunable Bessel Lowpass Filter*	8-Dip	10.00	6.70	5.75
LTC1065CSW#PBF-ND	5th Order, Clock-Tunable Bessel Lowpass Filter*	16-SOIC	10.75	7.15	6.15
LTC1066-1CSW#PBF-ND	8th Order, Clock-Tunable Lowpass Filter*	18-SOIC	32.50	21.65	17.50
LTC1068-25CG-ND	Quad Universal Filter Building Block	28-SSOP	12.38	8.22	6.60
LTC1068-50IG#PBF-ND	Quad Universal Filter Building Block, Ind. Temp.*	28-SSOP	13.50	8.97	7.15
LTC1068-200CG#PBF-ND	Quad Universal Filter Building Block*	28-SSOP	12.38	8.22	6.60
LTC1068-200IG-ND	Quad Universal Filter Building Block, Ind. Temp.	28-SSOP	13.50	8.97	7.15
LTC1068-200IG#PBF-ND	Quad Universal Filter Building Block, Ind. Temp.*	28-SSOP	13.50	8.97	7.15
LTC1068CG-ND	Quad Universal Filter Building Block	28-SSOP	12.38	8.22	6.60
LTC1068CG#PBF-ND	Quad Universal Filter Building Block*	28-SSOP	12.38	8.22	6.60
LTC1068CN#PBF-ND	Quad Universal Filter Building Block*	24-Dip	12.00	7.97	6.40
LTC1068IG#PBF-ND	Quad Universal Filter Building Block, Ind. Temp*	28-SSOP	13.50	8.97	7.15
LTC1068IN-ND	Quad Universal Filter Building Block, Ind. Temp	24-Dip	13.13	8.72	6.95
LTC1068IN#PBF-ND	Quad Universal Filter Building Block, Ind. Temp*	24-Dip	13.13	8.72	6.95
LTC1069-1IS8-ND	8th Order Progressive Elliptic, Lowpass Filter	8-SOIC	10.25	6.81	5.45
LTC1069-1IS8#PBF-ND	8th Order Progressive Elliptic, Lowpass Filter*	8-SOIC	10.25	6.81	5.45
LTC1069-6CS8-ND	8th Order Single Supply, Elliptic Lowpass Filter	8-SOIC	9.38	6.25	5.00
LTC1069-6CS8#PBF-ND	8th Order Single Supply, Elliptic Lowpass Filter*	8-SOIC	9.38	6.25	5.00
LTC1069-7CS8#PBF-ND	8th Order Linear Phase Lowpass Filter*	8-SOIC	9.38	6.23	5.00
LTC1164-5CN-ND	8th Order, Low Power, Lowpass Filter	14-Dip	20.00	13.35	11.25
LTC1164-7CSW#PBF-ND	8th Order, LP, Lowpass Filter, Linear Phase*	16-SOIC	27.50	18.35	15.50
LTC1164CN#PBF-ND	Quad Universal Filter Building Block*	24-Dip	15.00	10.00	8.40
LTC1164CSW-ND	Quad Universal Filter Building Block	24-SOIC	18.00	12.00	9.55
LTC1164CSW#PBF-ND	Quad Universal Filter Building Block*	24-SOIC	18.00	12.00	9.55
LTC1560-1CS8#PBF-ND	5th Order, Cont. Time, Low Pass Elliptic Filter*	8-SOIC	9.13	6.06	4.85
LTC1562CG#PBF-ND	Low Distortion Active RC Quad Universal Filter*	20-SSOP	19.13	12.70	9.57
LTC1562CG-2#PBF-ND	2V, Low Distortion Active RC Quad Universal Filter*	20-SSOP	19.13	12.70	9.57
LTC1563-2CGN-ND	Active RC, 4th Order Lowpass Filter Family	16-SSOP	4.13	2.74	2.10
LTC1563-2CGN#PBF-ND	Active RC, 4th Order Lowpass Filter Family*	16-SSOP	4.13	2.74	2.10
LTC1564CG#PBF-ND	10-150kHz Digitally Controlled Antialiasing Filter and 4-Bit Programmable Gain Amp*	16-SSOP	19.00	12.62	9.50
LTC1564IG#PBF-ND	10-150kHz Digitally Controlled Antialiasing Filter and 4-Bit Programmable Gain Amp*	16-SSOP	21.88	14.53	10.94
LTC1565-31CS8-ND	650kHz, 7th Order, Cont. Time Low Pass Filter	8-SOIC	8.00	5.32	4.00
LTC1565-31CS8#PBF-ND	650kHz, 7th Order, Cont. Time Low Pass Filter*	8-SOIC	8.00	5.32	4.00
LTC1565-31IS8-ND	650kHz, 7th Order, Cont. Time Low Pass Filter	8-SOIC	9.25	6.15	4.63
LTC1565-31IS8#PBF-ND	650kHz, 7th Order, Cont. Time Low Pass Filter*	8-SOIC	9.25	6.15	4.63
LTC1569CS8-6-ND	10th Order Linear Phase Low Pass Filter	8-SOIC	11.50	7.64	5.90
LTC1569CS8-6#PBF-ND	10th Order Linear Phase Low Pass Filter*	8-SOIC	11.50	7.64	5.90
LTC1569CS8-7-ND	10th Order Linear Phase Low Pass Filter	8-SOIC	12.25	8.14	6.30
LTC1569CS8-7#PBF-ND	10th Order Linear Phase Low Pass Filter*	8-SOIC	12.25	8.14	6.30

LINEAR TECHNOLOGY Digi-Reel® POWER MANAGEMENT

Regulators

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT317AT#PBF-ND	Adjustable Positive Voltage Regulator*	TO-220	4.00	2.66	2.15
LT1020CN-ND	Micropower Volt. Regulator/Comparator, 2.5V Ref.	14-Dip	6.88	4.58	3.90
LT1020CN#PBF-ND	Micropower Volt. Reg./Comparator, 2.5V Ref*	14-Dip	6.88	4.58	3.90
LT1020CSW-ND	Micropower Volt. Reg./Comparator, 2.5V Ref*	16-SOIC	7.50	5.00	4.25
LT1020CSW#PBF-ND	Micropower Volt. Reg./Comparator, 2.5V Ref.*	16-SOIC	7.50	5.00	4.25
LT1033CT-ND	Adj. Negative Voltage Reg., 3A, 1% Tolerance	TO-220	5.50	3.66	2.95
LT1033CT#PBF-ND	Adj. Negative Voltage Reg., 3A, 1% Tolerance*	TO-220	5.50	3.66	2.95
LT1070CT-ND	5A High Power Switching Regulator	TO-220-5	10.88	7.23	5.65
LT1070CT#PBF-ND	5A High Power Switching Regulator*	TO-220-5	10.88	7.23	5.65
LT1070HVCT#PBF-ND	5A High Power Switching Regulator*	TO-220-5	14.00	9.30	7.35
LT1071CT-ND	2.5A High Power Switching Regulator	TO-220-5	8.88	5.90	4.75
LT1071CT#PBF-ND	2.5A High Power Switching Regulator*	TO-220-5	8.88	5.90	4.75
LT1071HVCT-ND	2.5A High Power Switching Regulator	TO-220-5	11.50	7.64	6.20
LT1071HVCT#PBF-ND	2.5A High Power Switching Regulator*	TO-220-5	11.50	7.64	6.20
LT1072CN8-ND	1.25A High Efficiency Switching Regulator	8-Dip	4.38	2.92	2.45
LT1072CN8#PBF-ND	1.25A High Efficiency Switching Regulator*	8-Dip	4.38	2.92	2.45
LT1072CS8#PBF-ND	1.25A High Efficiency Switching Regulator*	8-SOIC	5.38	3.58	3.00
LT1072CT#PBF-ND	1.25A High Efficiency Switching Regulator*	TO-220-5	5.88	3.91	2.95
LT1072HVCT#PBF-ND	1.25A High Efficiency Switching Regulator*	TO-220-5	7.63	5.07	3.85
LT1072IN8-ND	1.25A High Efficiency Switching Regulator	8-Dip	6.13	4.08	3.45
LT1073CN8-ND	Adjustable DC/DC Converter	8-Dip	5.50	3.67	3.15
LT1073CN8#PBF-ND	Adjustable DC/DC Converter*	8-Dip	5.50	3.67	3.15
LT1073CN8-12-ND	12V Fixed DC/DC Converter	8-Dip	5.50	3.67	3.15
LT1073CS8-ND	Adjustable DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1073CS8-5-ND	5V Fixed DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1073CS8-5#PBF-ND	5V Fixed DC/DC Converter*	8-SOIC	6.38	4.25	3.60
LT1074CT-ND	5A Step-Down Switching Regulator	TO-220-5	9.50	6.31	5.25
LT1074CT#PBF-ND	5A Step-Down Switching Regulator*	TO-220-5	9.50	6.31	5.25
LT1074CT7#PBF-ND	5A Step-Down Switching Regulator*	TO-220-7	11.00	7.31	6.10
LT1074HVCT#PBF-ND	5A Step-Down Switching Regulator*	TO-220-5	14.13	9.38	7.90
LT1074HVCT7#PBF-ND	5A Step-Down Switching Regulator*	TO-220-7	15.63	10.38	8.75
LT1074HVIT-ND	5A Step-Down Switching Regulator, Ind. Temp.	TO-220-5	19.00	12.62	10.65
LT1074HVIT#PBF-ND	5A Step-Down Switching Regulator, Industrial Temperature*	TO-220-5	19.00	12.62	10.65
LT1074HVIT7#PBF-ND	5A Step-Down Switching Regulator, Ind. Temp.*	TO-220-7	20.50	13.62	11.20
LT1074IT-ND	5A Step-Down Switching Regulator, Ind. Temp.	TO-220-5	12.75	8.47	7.10
LT1074IT#PBF-ND	5A Step-Down Switching Regulator, Ind. Temp.*	TO-220-5	12.75	8.47	7.10
LT1074IT7#PBF-ND	5A Step-Down Switching Regulator, Ind. Temp.*	TO-220-7	14.00	9.30	7.65
LT1076CQ-ND	2A Step-Down Switching Regulator	5-DD	7.75	5.15	4.00
LT1076CQ#PBF-ND	2A Step-Down Switching Regulator*	5-DD	7.75	5.15	4.00
LT1076CQ-5-ND	2A Step-Down Switching Regulator	5-DD	7.75	5.15	4.00
LT1076CQ-5#PBF-ND	2A Step-Down Switching Regulator*	5-DD	7.75	5.15	4.00
LT1076CR-ND	2A Step-Down Switching Regulator	7-DD	8.38	5.57	4.35
LT1076CR#PBF-ND	2A Step-Down Switching Regulator*	7-DD	8.38	5.57	4.35
LT1076CR-5#PBF-ND	2A Step-Down Switching Regulator*	7-DD	8.38	5.57	4.35
LT1076CT-ND	2A Step-Down Switching Regulator	TO-220-5	6.75	4.49	3.50
LT1076CT#PBF-ND	2A Step-Down Switching Regulator*	TO-220-5	6.75	4.49	3.50
LT1076CT-5-ND	2A Step-Down Switching Regulator	TO-220-5	6.75	4.49	3.50
LT1076CT-5#PBF-ND	2A Step-Down Switching Regulator*	TO-220-5	6.75	4.49	3.50
LT1076CT7-ND	2A Step-Down Switching Regulator	TO-220-7	7.75	5.15	4.00
LT1076CT7#PBF-ND	2A Step-Down Switching Regulator*	TO-220-7	7.75	5.15	4.00
LT1076HVCR#PBF-ND	2A Step-Down Switching Regulator*	7-DD	14.38	9.55	7.65
LT1076HVCT-ND	2A Step-Down Switching Regulator	TO-220-5	11.63	7.72	6.05
LT1076HVCT#PBF-ND	2A Step-Down Switching Regulator*	TO-220-5	11.63	7.72	6.05
LT1076HVCT-5#PBF-ND	2A Step-Down 5V Switching Regulator*	TO-220-5	11.63	7.72	6.05
LT1076HVIT-ND	2A Step-Down Switching Regulator	TO-220-5	13.63	9.05	7.65
LT1076HVIT#PBF-ND	2A Step-Down Switching Regulator*	TO-220-5	13.63	9.05	7.65
LT1076IT-ND	2A Step-Down Switching Regulator	TO-220-5	9.13	6.06	5.05
LT1076IT#PBF-ND	2A Step-Down Switching Regulator*	TO-220-5	9.13	6.06	5.05
LT1082CN8-ND	1A High Voltage, High Efficiency Switching Reg.	8-Dip	8.13	5.42	4.60
LT1082CN8#PBF-ND	1A High Voltage, High Efficiency Switching Reg.*	8-Dip	8.13	5.42	4.60
LT1082CT#PBF-ND	1A High Volt., High Efficiency Switching Reg.*	TO-220-5	9.63	6.40	5.35
LT1082IQ-ND	1A High Volage, High Efficiency Switching Reg.	5-DD	11.88	7.89	6.65
LT1082IQ#PBF-ND	1A High Volage, High Efficiency Switching Reg.*	5-DD	11.88	7.89	6.65
LT1082IT-ND	1A High Voltage, High Efficiency Switching Reg.	TO-220-5	11.13	7.39	6.20
LT1082IT#PBF-ND	1A High Volt., High Efficiency Switching Reg.*	TO-220-5	11.13	7.39	6.20
LT1083CP-ND	Adjustable 7.5A LDO Voltage Regulator	TO-3P	13.50	8.97	7.70
LT1083CP#PBF-ND	Adjustable 7.5A LDO Voltage Regulator*	TO-3P	13.50	8.97	7.70
LT1083CP-5#PBF-ND	Fixed 5V, 7.5A LDO Voltage Regulator*	TO-3P	13.50	8.97	7.70
LT1083CP-12#PBF-ND	Fixed 12V, 7.5A LDO Voltage Regulator*	TO-3P	13.50	8.97	7.70
LT1084CP-ND	Adjustable 5A LDO Voltage Regulator	TO-3P	9.13	6.06	5.00
LT1084CP#PBF-ND	Adjustable 5A LDO Voltage Regulator*	TO-3P	9.13	6.06	5.00
LT1084CP-5#PBF-ND	Fixed 5V, 5A LDO Voltage Regulator*	TO-3P	9.13	6.06	5.00
LT1084CP-12-ND	Fixed 12V, 5A LDO Voltage Regulator	TO-3P	9.13	6.06	5.00
LT1084CT-ND	Adjustable 5A LDO Voltage Regulator	TO-220	8.00	5.32	4.45
LT1084CT#PBF-ND	Adjustable 5A LDO Voltage Regulator*	TO-220	8.00	5.32	4.45
LT1084CT-3.3-ND	Fixed 3.3V, 5A LDO Voltage Regulator	TO-220	8.00	5.32	4.45
LT1084CT-3.3#PBF-ND	Fixed 3.3V, 5A LDO Voltage Regulator*	TO-220	8.00	5.32	4.45
LT1084CT-5#PBF-ND	Fixed 5V, 5A LDO Voltage Regulator*	TO-220	8.00	5.32	4.45
LT1084CT-12-ND	Fixed 12V, 5A LDO Voltage Regulator	TO-220	8.00	5.32	4.45
LT1084CT-12#PBF-ND	Fixed 12V, 5A LDO Voltage Regulator*	TO-220	8.00	5.32	4.45
LT1084IT#PBF-ND	Adjustable 5A LDO Voltage Regulator, Ind. Temp.*	TO-220	10.25	6.81	5.70
LT1085CM-ND	Adjustable 3A LDO Voltage Regulator	3-DD	7.38	4.90	4.00
LT1085CM#PBF-ND	Adjustable 3A LDO Voltage Regulator*	3-DD	7.38	4.90	4.00
LT1085CM-3.3-ND	Fixed 3.3V, 3A LDO Voltage Regulator	3-DD	7.38	4.90	4.00
LT1085CM-3.3#PBF-ND	Fixed 3.3V, 3A LDO Voltage Regulator*	3-DD	7.38	4.90	4.00
LT1085CT-ND	Adjustable 3A LDO Voltage Regulator	TO-220	6.75	4.49	3.70
LT1085CT#PBF-ND	Adjustable 3A LDO Voltage Regulator*	TO-220	6.75	4.49	3.70
LT1085CT-3.3#PBF-ND	Fixed 3.3V, 3A LDO Voltage Regulator*	TO-220	6.75	4.49	3.70
LT1085CT-3.6-ND	Fixed 3.6V, 3A LDO Voltage Regulator	TO-220	6.50	4.35	3.70
LT1085CT-5#PBF-ND	Fixed 5V, 3A LDO Voltage Regulator*	TO-220	6.75	4.49	3.70
LT1085CT-12-ND	Fixed 12V, 3A LDO Voltage Regulator	TO-220	6.75	4.49	3.70
LT1085CT-12#PBF-ND	Fixed 12V, 3A LDO Voltage Regulator*	TO-220	6.75	4.49	3.70
LT1085IM-3.6-ND	Fixed 3.6V, 3A LDO Voltage Regulator	3-DD	10.25	6.81	5.13
LT1086CM#PBF-ND	Adjustable 1.5A LDO Voltage Regulator*	3-DD	4.25	2.83	2.30
LT1086CM-3.3-ND	Fixed 3.3V, 1.5A LDO Voltage Regulator	3-DD	4.25	2.83	2.30
LT1086CM-3.3#PBF-ND	Fixed 3.3V, 1.5A LDO Voltage Regulator*	3-DD	4.25	2.83	2.30
LT1086CT-ND	Adjustable 1.5A LDO Voltage Regulator	TO-220	4.00	2.66	2.15
LT1086CT#PBF-ND	Adjustable 1.5A LDO Voltage Regulator*	TO-220	4.00	2.66	2.15
LT1086CT-3.3-ND	Fixed 3.3V, 1.5A LDO Voltage Regulator	TO-220	4.00	2.66	2.15
LT1086CT-3.3#PBF-ND	Fixed 3.3V, 1.5A LDO Voltage Regulator*	TO-220	4.00	2.66	2.15
LT1086CT-3.6-ND	Fixed 3.6V, 1.5A LDO Voltage Regulator	TO-220	4.00	2.66	2.15
LT1086CT-5#PBF-ND	Fixed 5V, 1.5A LDO Voltage Regulator*	TO-220	4.00	2.66	2.15
LT1086CT-12#PBF-ND	Fixed 12V, 1.5A LD O Voltage Regulator*	TO-220	4.00	2.66	2.15
LT1086IM#PBF-ND	Adjustable 1.5A LDO Voltage Regulator*	3-DD	4.88	3.24	2.55
LT1086IM-3.3#PBF-ND	Fixed 3.3V, 1.5A LDO Voltage Regulator*	3-DD	4.88	3.24	2.55
LT1105CN-ND	Offline Switching Regulator	14-Dip	7.63	5.08	4.05
LT1105CN#PBF-ND	Offline Switching Regulator*	14-Dip	7.63	5.08	4.05
LT1105CN8-ND	Offline Switching Regulator	8-Dip	7.13	4.75	3.75
LT1105CN8#PBF-ND	Offline Switching Regulator*	8-Dip	7.13	4.75	3.75
LT1107CS8-ND	Adjustable Output DC/DC Converter	8-SOIC	4.38	2.91	2.40
LT1107CS8#PBF-ND	Adjustable Output DC/DC Converter*	8-SOIC	4.38	2.91	2.40
LT1107CS8-5#PBF-ND	Fixed 5V Output DC/DC Converter*	8-SOIC	5.13	3.42	2.90
LT1107CS8-12#PBF-ND	Fixed 12V Output DC/DC Converter*	8-SOIC	5.13	3.42	2.90
LT1107IS8#PBF-ND	Adjustable Output DC/DC Converter, Ind. Temp.*	8-SOIC	5.38	3.60	3.10
LT1108CS8-ND	Micropower Adjustable Output DC/DC Converter	8-SOIC	5.13	3.42	2.90
LT1108CS8#PBF-ND	Micropower Adjustable Output DC/DC Converter*	8-SOIC	5.13	3.42	2.90
LT1108CS8-5-ND	Micropower Fixed 5V Output DC/DC Converter	8-SOIC	5.13	3.42	2.90
LT1108CS8-5#PBF-ND	Micropower Fixed 5V Output DC/DC Converter*	8-SOIC	5.13	3.42	2.90
LT1109ACN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.38	2.92	2.45

* *RoHS Compliant*

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1109ACN8-12#PBF-ND	Fixed 12V Output Micropower DC/DC Converter*	8-Dip	4.38	2.92	2.45
LT1109CS8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.38	2.92	2.45
LT1109CS8-12#PBF-ND	Fixed 12V Output Micropower DC/DC Converter*	8-SOIC	4.38	2.92	2.45
LT1110CN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	5.50	3.67	3.15
LT1110CN8-12#PBF-ND	Fixed 12V Output Micropower DC/DC Converter*	8-Dip	5.50	3.67	3.15
LT1110CS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1110CS8#PBF-ND	Adjustable Output Micropower DC/DC Converter*	8-SOIC	6.38	4.25	3.60
LT1110CS8-5-ND	Fixed 5V Output Micropower DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1111CN8#PBF-ND	Adjustable Output Micropower DC/DC Converter*	8-Dip	4.25	2.83	2.40
LT1111CN8-5#PBF-ND	Fixed 5V Output Micropower DC/DC Converter*	8-Dip	4.25	2.83	2.40
LT1111CN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1111CS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1111CS8#PBF-ND	Adjustable Output Micropower DC/DC Converter*	8-SOIC	4.88	3.25	2.80
LT1111CS8-5-ND	Fixed 5V Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1111CS8-5#PBF-ND	Fixed 5V Output Micropower DC/DC Converter*	8-SOIC	4.88	3.25	2.80
LT1111IS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1111IS8#PBF-ND	Adjustable Output Micropower DC/DC Converter*	8-SOIC	6.38	4.25	3.60
LT1117CM-5-ND	Fixed 5V, 800mA LDO Regulator	3-DD	4.13	2.74	2.20
LT1117CM-5#PBF-ND	Fixed 5V, 800mA LDO Regulator*	3-DD	4.13	2.74	2.20
LT1117CST-ND	Adjustable, 800mA LDO Regulator	SOT-223	3.88	2.58	1.95
LT1117CST#PBF-ND	Adjustable, 800mA LDO Regulator*	SOT-223	3.88	2.58	1.95
LT1117CST-2.85-ND	Fixed 2.85V, 800mA LDO Regulator	SOT-223	3.88	2.58	1.95
LT1117CST-2.85#PBF-ND	Fixed 2.85V, 800mA LDO Regulator*	SOT-223	3.88	2.58	1.95
LT1117CST-3.3#PBF-ND	Fixed 3.3V, 800mA LDO Regulator*	SOT-223	3.88	2.58	1.95
LT1117CST-5-ND	Fixed 5V, 800mA LDO Regulator	SOT-223	3.88	2.58	1.95
LT1117CST-5#PBF-ND	Fixed 5V, 800mA LDO Regulator*	SOT-223	3.88	2.58	1.95
LT1118CS8#PBF-ND	Adjustable, 800mA LDO Reg. with 400mA Isink*	8-SOIC	5.00	3.45	2.95
LT1118CS8-2.5#PBF-ND	Fixed 2.5V, 800mA LDO Reg. with 400mA Isink*	8-SOIC	5.00	3.45	2.95
LT1118CS8-2.85-ND	Fixed 2.85V, 800mA LDO Reg. with 400mA Isink	8-SOIC	4.63	3.20	2.75
LT1118CST-2.5-ND	Fixed 2.5V, 800mA LDO Reg. with 400mA Isink	SOT-223	5.00	3.32	2.65
LT1118CST-2.5#PBF-ND	Fixed 2.5V, 800mA LDO Reg. with 400mA Isink*	SOT-223	5.00	3.32	2.65
LT1118CST-5#PBF-ND	Fixed 5V, 800mA LDO Reg. with 400mA Isink*	SOT-223	5.00	3.32	2.65
LT1120ACN8-ND	Micropower Reg. with Comparator and Shutdown	8-Dip	4.75	3.17	2.60
LT1120ACN8#PBF-ND	Micropower Reg. with Comparator and Shutdown*	8-Dip	4.75	3.17	2.60
LT1120ACS8-ND	Micropower Reg. with Comparator and Shutdown	8-SOIC	5.50	3.67	3.15
LT1120ACS8#PBF-ND	Micropower Reg. with Comparator and Shutdown*	8-SOIC	5.50	3.67	3.15
LT1120CN8#PBF-ND	Micropower Reg. with Comparator and Shutdown*	8-Dip	4.38	2.92	2.40
LT1120CS8#PBF-ND	Micropower Reg. with Comparator and Shutdown*	8-SOIC	5.13	3.42	2.80
LT1121ACS8#PBF-ND	Adj. Micropower LDO Regulator with Shutdown*	8-SOIC	3.75	2.50	2.00
LT1121ACS8-5-ND	5V Micropower LDO Regulator with Shutdown	8-SOIC	3.75	2.50	2.00
LT1121ACS8-5#PBF-ND	5V Micropower LDO Regulator with Shutdown*	8-SOIC	3.75	2.50	2.00
LT1121AHVCS8-ND	Adj. Micropower LDO Regulator with Shutdown	8-SOIC	4.50	2.99	2.40
LT1121AHVCS8#PBF-ND	Adj. Micropower LDO Regulator with Shutdown*	8-SOIC	4.50	2.99	2.40
LT1121AHVIS8#PBF-ND	Adj. Micropower LDO Regulator with Shutdown, Industrial Temperature*	8-SOIC	5.25	3.49	2.81
LT1121AIS8#PBF-ND	Adj. Micropower LDO Regulator with Shutdown, Industrial Temperature*	8-SOIC	4.38	2.92	2.35
LT1121AIS8-5#PBF-ND	5V Micropower LDO Regulator with Shutdown, Industrial Temperature*	8-SOIC	4.38	2.92	2.35
LT1121CN8#PBF-ND	Adj. Micropower LDO Regulator with Shutdown*	8-Dip	2.75	1.83	1.55
LT1121CN8-3.3#PBF-ND	3.3V, 150mA LDO Regulator with Shutdown*	8-Dip	2.75	1.83	1.55
LT1121CN8-5#PBF-ND	5V, 150mA LDO Regulator with Shutdown*	8-Dip	2.75	1.83	1.55
LT1121CS8-ND	Adjustable LDO Regulator with Shutdown	8-SOIC	3.00	2.00	1.70
LT1121CS8#PBF-ND	Adjustable LDO Regulator with Shutdown*	8-SOIC	3.00	2.00	1.70
LT1121CS8-3.3#PBF-ND	3.3V LDO Regulator with Shutdown*	8-SOIC	3.00	2.00	1.70
LT1121CS8-5-ND	5V LDO Regulator with Shutdown	8-SOIC	3.00	2.00	1.70
LT1121CS8-5#PBF-ND	5V LDO Regulator with Shutdown*	8-SOIC	3.00	2.00	1.70
LT1121CST-3.3-ND	3.3V LDO Regulator with Shutdown	SOT-223	3.50	2.33	1.75
LT1121CST-3.3#PBF-ND	3.3V LDO Regulator with Shutdown*	SOT-223	3.50	2.33	1.75
LT1121CST-5#PBF-ND	5V LDO Regulator with Shutdown*	SOT-223	3.50	2.33	1.75
LT1121CZ-5#PBF-ND	5V, 150mA LDO Regulator with Shutdown*	TO-92	2.38	1.58	1.35
LT1121IS8#PBF-ND	Adjustable LDO Regulator with Shutdown*	8-SOIC	3.63	2.42	2.05
LT1121IS8-3.3#PBF-ND	3.3V LDO Regulator with Shutdown*	8-SOIC	3.63	2.42	2.05
LT1121IS8-5-ND	5V LDO Regulator with Shutdown	8-SOIC	3.63	2.42	2.05
LT1121IS8-5#PBF-ND	5V LDO Regulator with Shutdown*	8-SOIC	3.63	2.42	2.05
LT1121IST-3.3#PBF-ND	3.3V LDO Regulator with Shutdown*	SOT-223	4.13	2.74	2.10
LT1121IST-5#PBF-ND	5V LDO Regulator with Shutdown*	SOT-223	4.13	2.74	2.10
LT1121IZ-5-ND	5V LDO Regulator with Shutdown	TO-92	2.88	1.92	1.60
LT1121IZ-5#PBF-ND	5V LDO Regulator with Shutdown*	TO-92	2.88	1.92	1.60
LT1129CQ-ND	Adjustable, 700mA LDO Regulator with Shutdown	5-DD	4.88	3.24	2.55
LT1129CQ#PBF-ND	Adjustable, 700mA LDO Regulator with Shutdown*	5-DD	4.88	3.24	2.55
LT1129CQ-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown*	5-DD	4.88	3.24	2.55
LT1129CQ-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	5-DD	4.88	3.24	2.55
LT1129CS8-ND	Adjustable, 700mA LDO Regulator with Shutdown	8-SOIC	4.75	3.17	2.55
LT1129CS8#PBF-ND	Adjustable, 700mA LDO Regulator with Shutdown*	8-SOIC	4.75	3.17	2.55
LT1129CS8-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	8-SOIC	4.75	3.17	2.55
LT1129CS8-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown*	8-SOIC	4.75	3.17	2.55
LT1129CS8-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	8-SOIC	4.75	3.17	2.55
LT1129CST-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown*	SOT-223	4.50	2.99	2.35
LT1129CST-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	SOT-223	4.50	2.99	2.35
LT1129CT#PBF-ND	Adj., 700mA LDO Regulator with Shutdown*	TO-220-5	4.25	2.83	2.25
LT1129CT-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	TO-220-5	4.25	2.83	2.25
LT1129IQ-ND	Adjustable, 700mA LDO Regulator with Shutdown	5-DD	5.75	3.82	3.05
LT1129IQ#PBF-ND	Adjustable, 700mA LDO Regulator with Shutdown*	5-DD	5.75	3.82	3.05
LT1129IQ-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	5-DD	5.75	3.82	3.05
LT1129IS8#PBF-ND	Adjustable, 700mA LDO Reg. with Shutdown*	8-SOIC	5.63	3.75	3.05
LT1129IS8-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown*	8-SOIC	5.63	3.75	3.05
LT1129IS8-5-ND	5V, 700mA LDO Regulator with Shutdown	8-SOIC	5.63	3.75	3.05
LT1129IS8-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	8-SOIC	5.63	3.75	3.05
LT1129IST-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	SOT-223	5.00	3.32	2.70
LT1129IST-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown*	SOT-223	5.00	3.32	2.70
LT1129IST-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown*	SOT-223	5.00	3.32	2.70
LT1170CQ#PBF-ND	5A, 100kHz High Efficiency Switching Regulator*	5-DD	11.63	7.72	6.05
LT1170CT#PBF-ND	5A, 100kHz High Efficiency Switching Regulator*	TO-220-5	10.88	7.23	5.65
LT1170HVCQ#PBF-ND	5A, 100kHz, High Voltage, High Efficiency, Switching Regulator*	5-DD	14.63	9.72	8.25
LT1170HVCQTR-ND	5A, 100kHz, High Voltage, High Efficiency, Switching Regulator	5-DD	6225.01/750		
LT1170HVCT#PBF-ND	5A, 100kHz, High Voltage, High Efficiency, Switching Regulator*	TO-220-5	14.00	9.30	7.35
LT1170IQ-ND	5A, 100kHz High Efficiency Switching Regulator	5-DD	14.50	9.63	8.50
LT1170IQ#PBF-ND	5A, 100kHz High Efficiency Switching Regulator*	5-DD	14.50	9.63	8.50
LT1171CQ#PBF-ND	3A, 100kHz High Efficiency Switching Regulator*	5-DD	9.63	6.40	5.20
LT1171CT#PBF-ND	3A, 100kHz High Efficiency Switching Reg.*	TO-220-5	8.88	5.90	4.75
LT1171HVCQ-ND	2.5A, 100kHz, High Voltage, High Efficiency Switching Regulator	5-DD	12.00	7.97	6.70
LT1171HVCQ#PBF-ND	2.5A, 100kHz, High Voltage, High Efficiency Switching Regulator*	5-DD	12.00	7.97	6.70
LT1171HVCT-ND	2.5A, 100kHz, High Voltage, High Efficiency Switching Regulator	TO-220-5	11.50	7.64	6.20
LT1171HVCT#PBF-ND	2.5A, 100kHz, High Voltage, High Efficiency Switching Regulator*	TO-220-5	11.50	7.64	6.20
LT1171IQ#PBF-ND	2.5A, 100kHz High Efficiency Switching Regulator*	5-DD	10.50	6.98	5.45
LT1172CN8#PBF-ND	1.25A, 100kHz High Efficiency Switching Regulator*	8-Dip	4.38	2.92	2.45
LT1172CQ#PBF-ND	1.25A, 100kHz High Efficiency Switching Regulator*	5-DD	6.63	4.40	3.55
LT1172CS8#PBF-ND	1.25A, 100kHz High Efficiency Switching Regulator*	8-SOIC	5.38	3.58	3.00
LT1172CT-ND	1.25A, 100kHz High Efficiency Switching Reg.	TO-220-5	5.88	3.91	2.95
LT1172CT#PBF-ND	1.25A, 100kHz High Efficiency Switching Reg.*	TO-220-5	5.88	3.91	2.95
LT1172HVCQ-ND	1.25A, 100kHz, High Volt, High Efficiency Switching Regulator	5-DD	9.38	6.52	5.37
LT1172HVCQ#PBF-ND	1.25A, 100kHz, High Volt, High Efficiency Switching Regulator*	5-DD	9.38	6.52	5.37
LT1172HVCT#PBF-ND	1.25A, 100kHz, High Volt, High Efficiency Switching Regulator*	TO-220-5	7.63	5.07	3.85
LT1172IN8#PBF-ND	1.25A, 100kHz High Efficiency Switching Regulator*	8-Dip	6.13	4.08	3.45
LT1173CN8-ND	Adjustable Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1173CN8#PBF-ND	Adjustable Output Micropower DC/DC Converter*	8-Dip	4.25	2.83	2.40
LT1173CN8-5#PBF-ND	Fixed 5V Output Micropower DC/DC Converter*	8-Dip	4.25	2.83	2.40
LT1173CN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1173CS8#PBF-ND	Adjustable Output Micropower DC/DC Converter*	8-SOIC	4.88	3.25	2.80
LT1173CS8-5#PBF-ND	Fixed 5V Output Micropower DC/DC Converter*	8-SOIC	4.88	3.25	2.80
LT1175CN8-ND	Adjustable, 500mA Negative LDO Regulator	8-Dip	4.63	3.10	2.55
LT1175CN8#PBF-ND	Adjustable, 500mA Negative LDO Regulator*	8-Dip	4.63	3.10	2.55
LT1175CN8-5#PBF-ND	5V, 500mA Negative LDO Regulator*	8-Dip	4.63	3.10	2.55
LT1175CQ-ND	Adjustable, 500mA Negative LDO Regulator	5-DD	6.13	4.07	3.25
LT1175CQ#PBF-ND	Adjustable, 500mA Negative LDO Regulator*	5-DD	6.13	4.07	3.25
LT1175CQ-5#PBF-ND	5V, 500mA Negative LDO Regulator*	5-DD	6.13	4.07	3.25
LT1175CS8#PBF-ND	Adjustable, 500mA Negative LDO Regulator*	8-SOIC	5.38	3.60	3.00
LT1175CS8-5#PBF-ND	5V, 500mA Negative LDO Regulator*	8-SOIC	5.38	3.60	3.00
LT1175CST-5#PBF-ND	5V, 500mA Negative LDO Regulator*	SOT-223	5.13	3.41	2.80
LT1175CT-ND	Adjustable, 500mA Negative LDO Regulator	TO-220-5	5.88	3.91	3.15
LT1175CT#PBF-ND	Adjustable, 500mA Negative LDO Regulator*	TO-220-5	5.88	3.91	3.15
LT1175CT-5-ND	5V, 500mA Negative LDO Regulator	TO-220-5	5.88	3.91	3.15
LT1175CT-5#PBF-ND	5V, 500mA Negative LDO Regulator*	TO-220-5	5.88	3.91	3.15
LT1175IN8-ND	Adjustable, 500mA Negative LDO Regulator	8-Dip	6.00	4.00	3.35
LT1175IQ#PBF-ND	Adjustable, 500mA Negative LDO Regulator*	5-DD	7.75	5.15	4.30
LT1175IST-5-ND	5V, 500mA Negative Low Dropout Regulator	SOT-223	5.63	3.74	3.10
LT1175IST-5#PBF-ND	5V, 500mA Negative Low Dropout Regulator*	SOT-223	5.63	3.74	3.10
LT1175IS8-ND	Adjustable, 500mA Negative LDO Regulator	8-SOIC	7.00	4.65	3.90
LT1175IS8#PBF-ND	Adjustable, 500mA Negative LDO Regulator*	8-SOIC	7.00	4.65	3.90
LT1175IS8-5-ND	5V, 500mA Negative LDO Regulator	8-SOIC	7.00	4.65	3.90
LT1175IS8-5#PBF-ND	5V, 500mA Negative LDO Regulator*	8-SOIC	7.00	4.65	3.90
LT1176CN8-ND	Adjustable, 1A Step-Down Switching Regulator	8-Dip	5.63	3.75	3.20
LT1176CN8#PBF-ND	Adjustable, 1A Step-Down Switching Regulator*	8-Dip	5.63	3.75	3.20
LT1176CN8-5#PBF-ND	5V, 1A Step-Down Switching Regulator*	8-Dip	5.63	3.75	3.20
LT1176CSW#PBF-ND	Adjustable, 1A Step-Down Switching Regulator*	20-SOIC	8.13	5.42	4.35
LT1176CSW-5#PBF-ND	5V, 1A Step-Down Switching Regulator*	20-SOIC	8.13	5.42	4.35
LT1185CT#PBF-ND	Adjustable, 3A, LDO Voltage Regulator*	TO-220-5	6.75	4.49	3.70
LT1185IT#PBF-ND	Adjustable, 3A, LDO Voltage Regulator*	TO-220-5	9.00	5.98	4.90
LT1268BCQ-ND	7.5A, 150kHz Switching Regulator	5-DD	13.00	8.64	7.25
LT1268CT#PBF-ND	7.5A, 150kHz Switching Regulator*	TO-220-5	11.63	7.72	6.50
LT1269CT-ND	4A, High Efficiency, Power Switching Regulator	TO-220-5	9.13	6.06	4.90
LT1269CT#PBF-ND	4A, High Efficiency, Power Switching Regulator*	TO-220-5	9.13	6.06	4.90
LT1270ACT-ND	10A, High Efficiency, Power Switching Reg.	TO-220-5	16.00	10.63	8.90
LT1270ACT#PBF-ND	10A, High Efficiency, Power Switching Reg.*	TO-220-5	16.00	10.63	8.90
LT1270CT#PBF-ND	8A, High Efficiency, Power Switching Reg.*	TO-220-5	10.88	7.23	5.65
LT1271CQ-ND	4A, High Efficiency, Power Switching Regulator	5-DD	9.63	6.40	5.20
LT1271CQ#PBF-ND	4A, High Efficiency, Power Switching Regulator*	5-DD	9.63	6.40	5.20
LT1271CT-ND	4A, High Efficiency, Power Switching Regulator	TO-220-5	8.88	5.90	4.75
LT1271CT#PBF-ND	4A, High Efficiency, Power Switching Reg.*	TO-220-5	8.88	5.90	4.75
LT1300CN8#PBF-ND	3.3V/5V, High Efficiency, Step-Up DC/DC Converter*	8-Dip	5.00	3.33	2.60
LT1300CS8#PBF-ND	3.3V/5V, High Efficiency, Step-Up DC/DC Converter*	8-SOIC	5.00	3.33	2.60
LT1301CS8#PBF-ND	5V/12V, High Efficiency, Step-Up DC/DC Converter*	8-SOIC	4.75	3.17	2.50
LT1302CS8#PBF-ND	Adj., High Efficiency, Step-Up DC/DC Converter*	8-SOIC	6.38	4.25	3.50
LT1302CS8-5#PBF-ND	5V, High Efficiency, Step-Up DC/DC Converter*	8-SOIC	6.38	4.25	3.50
LT1303CN8-ND	Adjustable, Step-Up DC/DC Converter	8-Dip	4.75	3.16	2.50
LT1303CN8#PBF-ND	Adjustable, Step-Up DC/DC Converter*	8-Dip	4.75	3.16	2.50
LT1303CN8-5-ND	5V, Step-Up DC/DC Converter	8-Dip	4.75	3.16	2.50
LT1303CN8-5#PBF-ND	5V, Step-Up DC/DC Converter*	8-Dip	4.75	3.16	2.50
LT1303CS8#PBF-ND	Adjustable, Step-Up DC/DC Converter*	8-SOIC	4.75	3.16	2.50
LT1303CS8-5-ND	5V, Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1303CS8-5#PBF-ND	5V, Step-Up DC/DC Converter*	8-SOIC	4.75	3.16	2.50
LT1303IS8-ND	Adjustable, Step-Up DC/DC Converter	8-SOIC	6.38	4.25	3.40
LT1304CS8-5-ND	5V, Step-Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1304CS8-5#PBF-ND	5V, Step-Up DC/DC Converter*	8-SOIC	4.75	3.16	2.50
LT1305CS8#PBF-ND	Micropower High Power Step-Up DC/DC Converter*	8-SOIC	6.38	4.25	3.65
LT1307BCS8#PBF-ND	Single MPU 600kHz PWM DC/DC Converter*	8-SOIC	4.13	2.75	2.20
LT1307CS8-ND	Single MPU 600kHz PWM DC/DC Converter	8-SOIC	4.13	2.75	2.20
LT1307CS8#PBF-ND	Single MPU 600kHz PWM DC/DC Converter*	8-SOIC	4.13	2.75	2.20
LT1308ACS8#PBF-ND	Single High Current, Micropower 600kHz DC/DC Converter*	8-SOIC	6.50	4.32	3.50

*** RoHS Compliant***

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1308BCS8#PBF-ND	Single High Current, Micropower 600kHz DC/DC Converter★	8-SOIC	6.50	4.32	3.50
LT1308CS8-ND	High Current, Low Power Single Cell 600kHz DC/DC Converter	8-SOIC	6.88	4.57	3.65
LT1308CS8#PBF-ND	High Current, Low Power Single Cell 600kHz DC/DC Converter★	8-SOIC	6.88	4.57	3.65
LT1310EMSE#PBF-ND	1.5A Boost DC/DC Converter with PLL★	10-MSOP	5.70	3.79	2.91
LT1316CMS8-ND	Micropower Step-Up DC/DC Converter	8-MSOP	5.38	3.57	2.95
LT1316CMS8#PBF-ND	Micropower Step-Up DC/DC Converter★	8-MSOP	5.38	3.57	2.95
LT1316CS8#PBF-ND	Micropower Step-Up DC/DC Converter★	8-SOIC	4.75	3.16	2.50
LT1317BCMS8#PBF-ND	Micropower, 600kHz PWM DC/DC Converter★	8-MSOP	4.88	3.24	2.55
LT1317BCS8-ND	Micropower, 600kHz PWM DC/DC Converter	8-SOIC	4.38	2.91	2.30
LT1317BCS8#PBF-ND	Micropower, 600kHz PWM DC/DC Converter★	8-SOIC	4.38	2.91	2.30
LT1317BIS8-ND	Micropower, 600kHz PWM DC/DC Converter	8-SOIC	5.63	3.74	3.00
LT1317BIS8#PBF-ND	Micropower, 600kHz PWM DC/DC Converter★	8-SOIC	5.63	3.74	3.00
LT1317CMS8#PBF-ND	Micropower, 600kHz PWM DC/DC Converter★	8-MSOP	4.88	3.24	2.55
LT1317CS8#PBF-ND	Micropower, 600kHz PWM DC/DC Converter★	8-SOIC	4.38	2.91	2.30
LT1339CN#PBF-ND	High Power Synchronous DC/DC Controller★	20-Dip	9.13	6.10	5.20
LT1339CSW-ND	High Power Synchronous DC/DC Controller	20-SOIC	9.38	6.25	5.35
LT1339CSW#PBF-ND	High Power Synchronous DC/DC Controller★	20-SOIC	9.38	6.25	5.35
LT1339ISW#PBF-ND	High Power Synchronous DC/DC Controller★	20-SOIC	11.25	7.50	6.45
LT1370CR#PBF-ND	500kHz, High Efficiency, 6A Switching Reg.★	7-DD	12.13	8.06	6.40
LT1370CT7-ND	500kHz, High Efficiency, 6A Switching Reg.	TO-220-7	11.88	7.89	6.25
LT1370CT7#PBF-ND	500kHz, High Efficiency, 6A Switching Reg.★	TO-220-7	11.88	7.89	6.25
LT1370HVCR#PBF-ND	500kHz, High Efficiency, 6A Switching Regulator★	7-DD	13.75	9.13	7.25
LT1370HVCT7#PBF-ND	500kHz, High Efficiency, 6A Switching Reg.★	TO-220-7	13.50	8.97	7.10
LT1370HVIR#PBF-ND	500kHz, High Efficiency, 6A Switching Regulator★	7-DD	16.38	10.88	8.65
LT1370IR-ND	500kHz, High Efficiency, 6A Switching Regulator, Induatrial Temperature	7-DD	14.50	9.63	7.65
LT1370IR#PBF-ND	500kHz, High Efficiency, 6A Switching Regulator, Industrial Temperature★	7-DD	14.50	9.63	7.65
LT1371CR-ND	500kHz, High Efficiency, 3A Switching Regulator	7-DD	9.88	6.56	5.50
LT1371CR#PBF-ND	500kHz, High Efficiency, 3A Switching Regulator★	7-DD	9.88	6.56	5.50
LT1371HVCR#PBF-ND	500kHz, High Efficiency, 3A Switching Regulator★	7-DD	10.50	6.98	5.85
LT1371IR#PBF-ND	500kHz, High Efficiency, 3A Switching Regulator, Industrial Temperature★	7-DD	11.75	7.81	6.55
LT1372CN8-ND	500kHz, High Efficiency, 1.5A Switching Regulator	8-Dip	6.50	4.32	3.70
LT1372CN8#PBF-ND	500kHz, High Efficiency, 1.5A Switching Regulator★	8-Dip	6.50	4.32	3.70
LT1372CS8#PBF-ND	500kHz, High Efficiency, 1.5A Switching Reg.★	8-SOIC	6.75	4.50	3.85
LT1372HVCS8#PBF-ND	500kHz, High Efficiency, 1.5A Switching Reg.★	8-SOIC	7.38	4.90	4.20
LT1372IS8#PBF-ND	500kHz, High Efficiency, 1.5A Switching Regulator, Industrial Temperature★	8-SOIC	8.13	5.40	4.65
LT1373CN8-ND	250kHz, High Efficiency, 1.5A Switching Regulator	8-Dip	6.50	4.32	3.70
LT1373CN8#PBF-ND	250kHz, High Efficiency, 1.5A Switching Regulator★	8-Dip	6.50	4.32	3.70
LT1373CS8#PBF-ND	250kHz, High Efficiency, 1.5A Switching Regulator★	8-SOIC	6.75	4.50	3.85
LT1373HVCS8-ND	250kHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	7.38	4.90	4.20
LT1373HVCS8#PBF-ND	250kHz, High Efficiency, 1.5A Switching Regulator★	8-SOIC	7.38	4.90	4.20
LT1373IS8#PBF-ND	250kHz, High Efficiency, 1.5A Switching Regulator, Industrial Temperature★	8-SOIC	8.13	5.40	4.65
LT1374CFE#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switch. Reg.★	16-TSSOP	9.10	6.05	4.64
LT1374CR-ND	Adj., 500kHz, 4.5A, Step-Down Switching Regulator	7-DD	10.25	6.81	5.13
LT1374CR#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switching Regulator★	7-DD	10.25	6.81	5.13
LT1374CR-5-ND	5V, 500kHz, 4.5A, Step-Down Switching Regulator	7-DD	10.25	6.81	5.13
LT1374CR-5#PBF-ND	5V, 500kHz, 4.5A, Step-Down Switching Regulator★	7-DD	10.25	6.81	5.13
LT1374CS8#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.★	8-SOIC	9.38	6.23	4.70
LT1374CS8-5-ND	5V, 500kHz, 4.5A, Step-Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1374CS8-5#PBF-ND	5V, 500kHz, 4.5A, Step-Down Switching Reg.★	8-SOIC	9.38	6.23	4.70
LT1374CS8-5SYNC-ND	5V, 500kHz, 4.5A, Sync. Step-Down Switching Reg.	8-SOIC	9.38	6.23	4.70
LT1374CT7#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.★	TO-220-7	10.00	6.64	5.00
LT1374CT7-5-ND	5V, 500kHz, 4.5A, Step-Down Switching Reg.	TO-220-7	10.00	6.64	5.00
LT1374CT7-5#PBF-ND	5V, 500kHz, 4.5A, Step-Down Switching Reg.★	TO-220-7	10.00	6.64	5.00
LT1374HVCFE-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.	16-TSSOP	10.00	6.64	5.10
LT1374HVCFE#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.★	16-TSSOP	10.00	6.64	5.10
LT1374HVCS8#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.★	8-SOIC	10.38	6.89	5.20
LT1374IR#PBF-ND	Adj., 500kHz, 4.5A, Step-Down Switching Reg.★	7-DD	11.75	7.81	5.88
LT1374IR-5#PBF-ND	5V, 500kHz, 4.5A, Step-Down Switching Regulator★	7-DD	11.75	7.81	5.88
LT1375CS8#PBF-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.★	8-SOIC	6.50	4.32	3.40
LT1375CS8-5#PBF-ND	5V, 500kHz, 1.5A Step-Down Switching Reg.★	8-SOIC	6.75	4.50	3.85
LT1375IS8-ND	Adj., 500kHz, 1.5A Step-Down, Switching Reg., Industrial Temperature	8-SOIC	7.75	5.15	4.10
LT1375IS8#PBF-ND	Adj., 500kHz, 1.5A Step-Down, Switching Reg., Industrial Temperature★	8-SOIC	7.75	5.15	4.10
LT1376CN8-ND	Adj., 500kHz, 1.5A Step-Down Switching Regulator	8-Dip	6.50	4.35	3.70
LT1376CN8#PBF-ND	Adj., 500kHz, 1.5A Step-Down Switching Regulator★	8-Dip	6.50	4.35	3.70
LT1376CN8-5-ND	5V, 500kHz, 1.5A, Step-Down Switching Regulator	8-Dip	6.50	4.35	3.70
LT1376CN8-5#PBF-ND	5V, 500kHz, 1.5A, Step-Down Switching Regulator★	8-Dip	6.50	4.35	3.70
LT1376CS#PBF-ND	Adj., 500kHz, 1.5A, Step Down Switching Reg.★	16-SOIC	7.38	4.90	3.90
LT1376CS8-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.	8-SOIC	6.50	4.32	3.40
LT1376CS8#PBF-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.★	8-SOIC	6.50	4.32	3.40
LT1376CS8-5-ND	5V, 500kHz, 1.5A, Step-Down Switching Regulator	8-SOIC	6.75	4.49	3.85
LT1376CS8-5#PBF-ND	5V, 500kHz, 1.5A, Step-Down Switching Reg.★	8-SOIC	6.75	4.49	3.85
LT1376HVCS8-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.	8-SOIC	7.13	4.74	3.75
LT1376HVCS8#PBF-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.★	8-SOIC	7.13	4.74	3.75
LT1376HVIS-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg.	16-SOIC	9.50	6.31	5.00
LT1376HVIS8#PBF-ND	Adj., 500kHz, 1.5A Step-Down Swithcing Reg., Industrial Temperature★	8-SOIC	8.63	5.73	4.55
LT1376IS#PBF-ND	Adj., 500kHz, 1.5A, Step-Down Switching Reg., Industrial Temperature★	16-SOIC	8.63	5.73	4.55
LT1376IS8-ND	Adj., 500kHz, 1.5A, Step-Down Switching Regulator	8-SOIC	7.75	5.15	4.10
LT1376IS8#PBF-ND	Adj., 500kHz, 1.5A, Step-Down Switching Regulator★	8-SOIC	7.75	5.15	4.10
LT1376IS8-5#PBF-ND	5V, 500kHz, 1.5A, Step-Down Switching Reg.★	8-SOIC	8.13	5.40	4.65
LT1377CS8-ND	1MHz, 1.5A, High Efficiency Switching Regulator	8-SOIC	7.88	5.25	4.50
LT1377CS8#PBF-ND	1MHz, 1.5A, High Efficiency Switching Regulator★	8-SOIC	7.88	5.25	4.50
LT1377IS8#PBF-ND	1MHz, 1.5A, High Efficiency Switching Regulator, Industrial Temperature★	8-SOIC	9.50	6.35	5.40

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1424CN8-9-ND	Isolated Flyback Switch Regulator	8-Dip	5.88	3.91	3.10
LT1424IN8-9-ND	Isolated Flyback Switch Regulator, Ind. Temp.	8-Dip	7.38	4.90	4.30
LT1424IS8-5-ND	Isolated Flyback Switch Regulator, Ind. Temp.	8-SOIC	7.63	5.07	4.45
LT1424IS8-5#PBF-ND	Isolated Flyback Switch Regulator, Ind. Temp.★	8-SOIC	7.63	5.07	4.45
LT1425CS-ND	Isolated Flyback Switch Regulator	16-SOIC	5.88	3.91	3.10
LT1425CS#PBF-ND	Isolated Flyback Switch Regulator★	16-SOIC	5.88	3.91	3.10
LT1425IS#PBF-ND	Isolated Flyback Switch Regulator, Ind. Temp.★	16-SOIC	7.38	4.90	4.20
LT1506CR-SYNC-ND	500kHz, 4.5A, Step-Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1506CR-3.3#PBF-ND	500kHz, 4.5A, 3.3V Step-Down Switching Reg.★	7-DD	10.25	6.81	5.13
LT1506CS8-ND	500kHz, 4.5A, Step-Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1506CS8#PBF-ND	500kHz, 4.5A, Step-Down Switching Regulator★	8-SOIC	9.38	6.23	4.70
LT1506CS8-3.3#PBF-ND	500kHz, 4.5A, 3.3V Step-Down Switching Reg.★	8-SOIC	9.38	6.23	4.70
LT1506IR#PBF-ND	500kHz, 4.5A, Step-Down Switching Regulator★	7-DD	11.75	7.81	5.88
LT1506IS8-ND	500kHz, 4.5A, Step-Down Switching Regulator	8-SOIC	10.75	7.14	5.40
LT1506IS8#PBF-ND	500kHz, 4.5A, Step-Down Switching Regulator★	8-SOIC	10.75	7.14	5.40
LT1506IS8-3.3#PBF-ND	500kHz, 4.5A, 3.3V Step-Down Switching Reg.★	8-SOIC	10.75	7.14	5.40
LT1507CS8-ND	500kHz, Monolithic Buck Mode Switching Reg.	8-SOIC	6.75	4.50	3.85
LT1507CS8#PBF-ND	500kHz, Monolithic Buck Mode Switching Reg.★	8-SOIC	6.75	4.50	3.85
LT1507CS8-3.3#PBF-ND	500kHz, 3.3V Mono Buck Mode Switching Reg.★	8-SOIC	6.75	4.50	3.85
LT1521CMS8#PBF-ND	Adj., 300mA, LDO Voltage Regulator★	8-MSOP	4.63	3.08	2.35
LT1521CMS8-3.3#PBF-ND	3.3V, 300mA, LDO Voltage Regulator★	8-MSOP	4.63	3.08	2.35
LT1521CS8-ND	Adj., 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8#PBF-ND	Adj., 300mA, LDO Voltage Regulator★	8-SOIC	4.13	2.75	2.50
LT1521CS8-3-ND	3V, 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8-3#PBF-ND	3V, 300mA, LDO Voltage Regulator★	8-SOIC	4.13	2.75	2.50
LT1521CS8-3.3-ND	3.3V, 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8-3.3#PBF-ND	3.3V, 300mA, LDO Voltage Regulator★	8-SOIC	4.13	2.75	2.50
LT1521CS8-5-ND	5V, 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8-5#PBF-ND	5V, 300mA, LDO Voltage Regulator★	8-SOIC	4.13	2.75	2.50
LT1521CST-3.3-ND	3.3V, 300mA, LDO Voltage Regulator	SOT-223	4.13	2.74	2.07
LT1521CST-3.3#PBF-ND	3.3V, 300mA, LDO Voltage Regulator★	SOT-223	4.13	2.74	2.07
LT1521CST-5#PBF-ND	5V, 300mA, LDO Voltage Regulator★	SOT-223	4.13	2.74	2.07
LT1521IS8-3.3-ND	3.3V, 300mA LDO Voltage Regulator	8-SOIC	5.00	3.35	2.85
LT1521IS8-3.3#PBF-ND	3.3V, 300mA LDO Voltage Regulator★	8-SOIC	5.00	3.35	2.85
LT1521IS8-5-ND	5V, 300mA, LDO Voltage Regulator	8-SOIC	5.00	3.35	2.85
LT1521IS8-5#PBF-ND	5V, 300mA, LDO Voltage Regulator★	8-SOIC	5.00	3.35	2.85
LT1521IST-5#PBF-ND	5V, 300mA, LDO Voltage Regulator★	SOT-223	5.00	3.32	2.70
LT1528CQ-ND	3.3V, 3A, LDO Voltage Regulator	5-DD	7.38	4.90	4.10
LT1528CQ#PBF-ND	3.3V, 3A, LDO Voltage Regulator★	5-DD	7.38	4.90	4.10
LT1528CT-ND	3.3V, 3A, LDO Voltage Regulator	TO-220-5	6.75	4.49	3.75
LT1528CT#PBF-ND	3.3V, 3A, LDO Voltage Regulator★	TO-220-5	6.75	4.49	3.75
LT1529CQ-ND	Adj., 3A, LDO Voltage Regulator with Shutdown	5-DD	7.38	4.90	3.69
LT1529CQ#PBF-ND	Adj., 3A, LDO Voltage Regulator with Shutdown★	5-DD	7.38	4.90	3.69
LT1529CQ-3.3-ND	3.3V, 3A, LDO Voltage Regulator with Shutdown	5-DD	7.38	4.90	3.69
LT1529CQ-3.3#PBF-ND	3.3V, 3A, LDO Voltage Regulator with Shutdown★	5-DD	7.38	4.90	3.69
LT1529CQ-5#PBF-ND	5V, 3A, LDO Voltage Regulator with Shutdown★	5-DD	7.38	4.90	3.69
LT1529CT#PBF-ND	Adj., 3A, LDO Voltage Reg. with Shutdown★	TO-220-5	6.75	4.49	3.38
LT1529CT-3.3-ND	3.3V, 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.75	4.49	3.38
LT1529CT-3.3#PBF-ND	3.3V, 3A, LDO Voltage Reg. with Shutdown★	TO-220-5	6.75	4.49	3.38
LT1529CT-5-ND	5V, 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.75	4.49	3.38
LT1529CT-5#PBF-ND	5V, 3A, LDO Voltage Regulator with Shutdown★	TO-220-5	6.75	4.49	3.38
LT1533CS#PBF-ND	1A, Ultra Low Noise Switching Regulator★	16-SOIC	9.25	6.15	4.85
LT1533IS#PBF-ND	1A, Ultra Low Noise Switching Regulator★	16-SOIC	11.50	7.65	6.55
LT1573CS8-ND	Adjustable LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8#PBF-ND	Adjustable LDO Regulator Driver★	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.5-ND	2.5V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.5#PBF-ND	2.5V, LDO Regulator Driver★	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.8-ND	2.8V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8-3.3-ND	3.3V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1575CN8-3.3-ND	3.3V, Precision Linear Regulator Controller	8-Dip	4.75	3.16	2.70
LT1575CS8-ND	Ultrafast Transient Response Low Dropout Reg.	8-SOIC	4.75	3.16	2.70
LT1575CS8#PBF-ND	Ultrafast Transient Response Low Dropout Reg.★	8-SOIC	4.75	3.16	2.70
LT1575CS8-2.8-ND	2.8V, Precision Linear Regulator Controller	8-SOIC	4.75	3.16	2.70
LT1576CS8-ND	1.5A, 200kHz, Step-Down Switching Regulator	8-SOIC	5.75	3.82	2.95
LT1576CS8#PBF-ND	1.5A, 200kHz, Step-Down Switching Regulator★	8-SOIC	5.75	3.82	2.95
LT1576IS8-SYNC-ND	1.5A, 200kHz, Step-Down Switching Regulator Sync. Input	8-SOIC	6.63	4.40	3.35
LT1579CGN-ND	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-3-ND	3V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-3.3-ND	3.3V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-3.3#PBF-ND	3.3V, 300mA, Dual Input, Smart LDO Regulator★	16-SSOP	8.25	5.48	4.70
LT1579CGN-5-ND	5V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CS-ND	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-3-ND	3V, 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-5-ND	5V, 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-5#PBF-ND	5V, 300mA, Dual Input, Smart LDO Regulator★	16-SOIC	7.50	4.98	4.30
LT1579CS8-3-ND	3V, 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579CS8-5-ND	5V, 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579IGN-ND	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SSOP	10.00	6.64	5.70
LT1580CQ-ND	Adj., 7A, High-Speed LDO Voltage Regulator	5-DD	11.75	7.81	5.88
LT1580CQ#PBF-ND	Adj., 7A, High-Speed LDO Voltage Regulator★	5-DD	11.75	7.81	5.88
LT1580CR-2.5#PBF-ND	2.5V, 7A, High-Speed LDO Voltage Regulator★	7-DD	12.13	8.06	6.07
LT1580CT-ND	Adj., 7A, High-Speed LDO Voltage Regulator	TO-220-5	11.50	7.64	5.75
LT1580CT#PBF-ND	Adj., 7A, High-Speed LDO Voltage Regulator★	TO-220-5	11.50	7.64	5.75
LT1580CT7-2.5-ND	2.5V, 7A, High-Speed LDO Voltage Regulator	TO-220-7	11.88	7.89	5.94
LT1580CT7-2.5#PBF-ND	2.5V, 7A, High-Speed LDO Voltage Regulator★	TO-220-7	11.63	7.72	5.82
LT1580IQ-ND	Adj., 7A, High-Speed LDO Voltage Regulator	5-DD	14.00	9.30	7.00
LT1580IQ#PBF-ND	Adj., 7A, High-Speed LDO Voltage Regulator★	5-DD	14.00	9.30	7.00
LT1580IR-2.5-ND	2.5V, 7A, High-Speed LDO Voltage Reg. Ind. Temp.	7-DD	14.25	9.47	7.13
LT1580IR-2.5#PBF-ND	2.5V, 7A, High-Speed LDO Volt. Reg. Ind. Temp.★	7-DD	14.25	9.47	7.13
LT1581CT7#PBF-ND	Adj., 10A, LDO Voltage Regulator★	TO-220-7	13.38	8.89	7.50
LT1584CT#PBF-ND	Adj., 7A, LDO Voltage Regulator★	TO-220	10.88	7.23	6.05
LT1584CT-3.3-ND	3.3V, 7A, LDO Voltage Regulator	TO-220	10.88	7.23	6.05
LT1584CT-3.3#PBF-ND	3.3V, 7A, LDO Voltage Regulator★	TO-220	10.88	7.23	6.05
LT1584CT-3.38-ND	3.38V, 7A, LDO Voltage Regulator	TO-220	10.63	7.08	6.05
LT1584IT-3.3-ND	3.3V, 7A, LDO Voltage Regulator	TO-220	12.75	8.47	6.38
LT1585ACM-1.5#PBF-ND	1.5V, 4.6A, LDO Voltage Regulator★	3-DD	8.38	5.57	4.65
LT1585ACT-1.5-ND	1.5V, 4.6A, LDO Voltage Regulator	TO-220	7.75	5.15	4.25

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(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1585ACT-1.5#PBF-ND	1.5V, 4.6A, LDO Voltage Regulator*	TO-220	7.75	5.15	4.25
LT1585CM#PBF-ND	Adj., 4A, LDO Voltage Regulator*	3-DD	8.00	5.32	4.30
LT1585CM-3.3-ND	3.3V, 4A, LDO Voltage Regulator	3-DD	8.00	5.32	4.30
LT1585CM-3.3#PBF-ND	3.3V, 4A, LDO Voltage Regulator*	3-DD	8.00	5.32	4.30
LT1585CT-ND	Adj., 4A, LDO Voltage Regulator	TO-220	7.38	4.90	4.00
LT1585CT#PBF-ND	Adj., 4A, LDO Voltage Regulator*	TO-220	7.38	4.90	4.00
LT1585CT-3.3-ND	3.3V, 4A, LDO Voltage Regulator	TO-220	7.38	4.90	4.00
LT1585CT-3.3#PBF-ND	3.3V, 4A, LDO Voltage Regulator*	TO-220	7.38	4.90	4.00
LT1585CT-3.38-ND	3.38V, 4A, LDO Voltage Regulator	TO-220	7.38	4.90	4.00
LT1587CM-ND	Adj., 3A, LDO Voltage Regulator	3-DD	6.75	4.49	3.70
LT1587CM#PBF-ND	Adj., 3A, LDO Voltage Regulator*	3-DD	6.75	4.49	3.70
LT1587CM-1.5-ND	1.5V, 3A, LDO Voltage Regulator	3-DD	6.75	4.49	3.70
LT1587CM-1.5#PBF-ND	1.5V, 3A, LDO Voltage Regulator*	3-DD	6.75	4.49	3.70
LT1587CM-3.3-ND	3.3V, 3A, LDO Voltage Regulator	3-DD	6.75	4.49	3.70
LT1587CM-3.3#PBF-ND	3.3V, 3A, LDO Voltage Regulator*	3-DD	6.75	4.49	3.70
LT1587CT-ND	Adj. 3A, LDO Voltage Regulator	TO-220	6.13	4.07	3.35
LT1587CT#PBF-ND	Adj. 3A, LDO Voltage Regulator*	TO-220	6.13	4.07	3.35
LT1587CT-3.3#PBF-ND	3.3V, 3A, LDO Voltage Regulator*	TO-220	6.13	4.07	3.35
LT1610CMS8#PBF-ND	1.7MHz, Single Cell DC/DC Converter*	8-MSOP	4.13	2.74	2.10
LT1610CS8#PBF-ND	1.7MHz, Single Cell DC/DC Converter*	8-SOIC	3.50	2.33	1.75
LT1610IS8-ND	1.7MHz, Single Cell DC/DC Converter	8-SOIC	4.25	2.83	2.25
LT1610IS8#PBF-ND	1.7MHz, Single Cell DC/DC Converter*	8-SOIC	4.25	2.83	2.25
LT1611CS5#TRMPBFCT-ND	1.4MHz, Inverting Switching Regulator*	SOT-23-5	4.70	4.20	3.78
LT1611CS5#TRMPBFTR-ND	1.4MHz, Inverting Switching Regulator*	SOT-23-5	1125.00/500		
LT1613CS5#TRMCT-ND	1.4MHz, Single Cell DC/DC Controller	SOT-23-5	4.14	3.70	3.33
LT1613CS5#TRMPBFCT-ND	1.4MHz, Single Cell DC/DC Controller*	SOT-23-5	4.14	3.70	3.33
LT1613CS5#TRMPBFTR-ND	1.4MHz, Single Cell DC/DC Controller*	SOT-23-5	925.00/500		
LT1614CMS8-ND	600kHz, Inverting Switching Regulator	8-MSOP	5.50	3.66	2.80
LT1614CMS8#PBF-ND	600kHz, Inverting Switching Regulator*	8-MSOP	5.50	3.66	2.80
LT1614CS8#PBF-ND	600kHz, Inverting Switching Regulator*	8-SOIC	5.00	3.32	2.55
LT1615ES5#TRMPBFCT-ND	Micropower Step-Up DC/DC Converter*	SOT-23-5	4.14	3.70	3.33
LT1615ES5#TRMPBFTR-ND	Micropower Step-Up DC/DC Converter*	SOT-23-5	925.00/500		
LT1615ES5-1#TR-ND	Micropower Step-Up DC/DC Converter	SOT-23-5	4624.99/2,500		
LT1615ES5-1#TRMPBFCT-ND	Micropower Step-Up DC/DC Converter*	SOT-23-5	4.14	3.70	3.33
LT1615ES5-1#TRMPBFTR-ND	Micropower Step-Up DC/DC Converter*	SOT-23-5	925.00/500		
LT1615IS5#TRMPBFCT-ND	Micropower Step-Up DC/DC Converter*	SOT-23-5	4.70	4.20	3.78
LT1615IS5#TRMPBFTR-ND	Micropower Step-Up DC/DC Converter*	SOT-23-5	1020.00/500		
LT1616ES6#TRMCT-ND	1.4MHz, Step-Down Switching Regulator	SOT-23-6	4.70	4.20	3.78
LT1616ES6#TRMTR-ND	1.4MHz, Step-Down Switching Regulator	SOT-23-6	1045.00/500		
LT1616ES6#TRMPBFCT-ND	1.4MHz, Step-Down Switching Regulator*	SOT-23-6	4.70	4.20	3.78
LT1616ES6#TRMPBFTR-ND	1.4MHz, Step-Down Switching Regulator*	SOT-23-6	1045.00/500		
LT1617ES5#TRMPBFCT-ND	Micropower Inverting DC/DC Converter*	SOT-23-5	4.14	3.70	3.33
LT1617ES5#TRMPBFTR-ND	Micropower Inverting DC/DC Converter*	SOT-23-5	925.00/500		
LT1618EMS-ND	1.4MHz, Step-Up DC/DC Converter	10-MSOP	3.50	2.33	1.86
LT1618EMS#PBF-ND	1.4MHz, Step-Up DC/DC Converter*	10-MSOP	3.50	2.33	1.86
LT1619EMS8#PBF-ND	300kHz, 2-Cell Current Mode PWM Controller*	8-MSOP	4.50	2.99	2.25
LT1619EMS8TR-ND	300kHz, 2-Cell Current Mode PWM Controller	8-MSOP	5749.99/2,500		
LT1619ES8-ND	300kHz, 2-Cell Current Mode PWM Controller	8-SOIC	4.25	2.83	2.13
LT1619ES8#PBF-ND	300kHz, 2-Cell Current Mode PWM Controller*	8-SOIC	4.25	2.83	2.13
LT1619ES8TR-ND	300kHz, 2-Cell Current Mode PWM Controller	8-SOIC	5449.98/2,500		
LT1676CS8#PBF-ND	High Efficiency, Step-Down Switching Regulator*	8-SOIC	5.38	3.57	2.85
LT1676IS8-ND	High Efficiency, Step-Down Switching Regulator, Industrial Temperature	8-SOIC	6.25	4.15	3.35
LT1676IS8#PBF-ND	High Efficiency, Step-Down Switching Regulator, Industrial Temperature*	8-SOIC	6.25	4.15	3.35
LT1680CN#PBF-ND	High Power DC/DC Step-Up Controller*	16-Dip	8.00	5.32	4.25
LT1680CSW#PBF-ND	High Power DC/DC Step-Up Controller*	16-SOIC	8.38	5.57	4.45
LT1680ISW#PBF-ND	High Power DC/DC Step-Up Controller*	16-SOIC	10.00	6.64	5.35
LT1681ESW#PBF-ND	Dual Transistor Sync. Forward Controller*	20-SOIC	10.63	7.06	5.32
LT1683EG#PBF-ND	Ultra Low Noise Push-Pull DC/DC Controller*	20-SSOP	9.63	6.40	4.85
LT1725IGN-ND	General Purpose Isolated Flyback Controller	16-SSOP	7.25	4.82	3.63
LT1725IGN#PBF-ND	General Purpose Isolated Flyback Controller*	16-SSOP	7.25	4.82	3.63
LT1725IS-ND	General Purpose Isolated Flyback Controller	16-SOIC	7.00	4.65	3.50
LT1725IS#PBF-ND	General Purpose Isolated Flyback Controller*	16-SOIC	7.00	4.65	3.50
LT1737IGN#PBF-ND	High Power Isolated Flyback Controller*	16-SSOP	7.25	4.82	3.63
LT1738EG-ND	Ultra Low Noise DC/DC Controller	20-SSOP	8.63	5.73	4.32
LT1738EG#PBF-ND	Ultra Low Noise DC/DC Controller*	20-SSOP	8.63	5.73	4.32
LT1761ES5-BYP#TRMCT-ND	Adj., 100mA, Low Noise LDO Micropower Reg.	SOT-23-5	2.38	2.13	1.92
LT1761ES5-BYP#TRMTR-ND	Adj., 100mA, Low Noise LDO MPU Regulator	SOT-23-5	530.00/500		
LT1761ES5-BYP#TRMPBFCT-ND	Adj., 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	2.38	2.13	1.92
LT1761ES5-BYP#TRMPBFTR-ND	Adj., 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	530.00/500		
LT1761ES5-1.5#TRMPBFCT-ND	1.5V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	2.38	2.13	1.92
LT1761ES5-1.5#TRMPBFTR-ND	1.5V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	530.00/500		
LT1761ES5-1.8#TRMCT-ND	1.8V, 100mA, Low Noise LDO MPU Regulator	SOT-23-5	2.38	2.13	1.92
LT1761ES5-1.8#TRMTR-ND	1.8V, 100mA, Low Noise LDO MPU Regulator	SOT-23-5	530.00/500		
LT1761ES5-1.8#TRMPBFCT-ND	1.8V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	2.38	2.13	1.92
LT1761ES5-1.8#TRMPBFTR-ND	1.8V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	530.00/500		
LT1761ES5-2.5#TRMPBFCT-ND	2.5V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	2.38	2.13	1.92
LT1761ES5-2.5#TRMPBFTR-ND	2.5V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	530.00/500		
LT1761ES5-2.8#TRMPBFCT-ND	2.8V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	2.38	2.13	1.92
LT1761ES5-2.8#TRMPBFTR-ND	2.8V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	530.00/500		
LT1761ES5-3#TRMPBFCT-ND	3V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	2.38	2.13	1.92
LT1761ES5-3#TRMPBFTR-ND	3V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	530.00/500		
LT1761ES5-3.3#TRMPBFCT-ND	3.3V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	2.38	2.13	1.92
LT1761ES5-3.3#TRMPBFTR-ND	3.3V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	530.00/500		
LT1761ES5-5#TRMCT-ND	5V, 100mA, Low Noise LDO MPU Regulator	SOT-23-5	2.38	2.13	1.92
LT1761ES5-5#TRMTR-ND	5V, 100mA, Low Noise LDO MPU Regulator	SOT-23-5	530.00/500		
LT1761ES5-5#TRMPBFCT-ND	5V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	2.38	2.13	1.92
LT1761ES5-5#TRMPBFTR-ND	5V, 100mA, Low Noise LDO MPU Regulator*	SOT-23-5	530.00/500		
LT1761ES5-SD#TRMCT-ND	Adj.,100mA, Low Noise, LDO MPU Regulator	SOT-23-5	2.38	2.13	1.92
LT1761ES5-SD#TRMTR-ND	Adj.,100mA, Low Noise, LDO MPU Regulator	SOT-23-5	530.00/500		
LT1761ES5-SD#TRMPBFCT-ND	Adj.,100mA, Low Noise, LDO MPU Regulator*	SOT-23-5	2.38	2.13	1.92
LT1761ES5-SD#TRMPBFTR-ND	Adj.,100mA, Low Noise, LDO MPU Regulator*	SOT-23-5	530.00/500		
LT1762EMS8-ND	Adj., 150mA, Low Noise LDO MPU Regulator	8-MSOP	2.38	1.58	1.19
LT1762EMS8#PBF-ND	Adj., 150mA, Low Noise LDO MPU Regulator*	8-MSOP	2.38	1.58	1.19
LT1762EMS8-5#PBF-ND	5V, 150mA, Low Noise LDO MPU Regulator*	8-MSOP	2.38	1.58	1.19
LT1763CS8-ND	Adj., 500mA, Low Noise LDO MPU Regulator	8-SOIC	4.13	2.74	2.07
LT1763CS8#PBF-ND	Adj., 500mA, Low Noise LDO MPU Regulator*	8-SOIC	4.13	2.74	2.07
LT1763CS8-1.8-ND	1.8V, 500mA, Low Noise, LDO MPU Regulator	8-SOIC	4.13	2.74	2.07
LT1763CS8-2.5-ND	2.5V, 500mA, Low Noise, LDO MPU Regulator	8-SOIC	4.13	2.74	2.07
LT1763CS8-2.5#PBF-ND	2.5V, 500mA, Low Noise, LDO MPU Regulator*	8-SOIC	4.13	2.74	2.07
LT1763CS8-3.3#PBF-ND	3.3V, 500mA, Low Noise, LDO MPU Regulator*	8-SOIC	4.13	2.74	2.07
LT1763CS8-5#PBF-ND	5V, 500mA, Low Noise, LDO MPU Regulator*	8-SOIC	4.13	2.74	2.07
LT1764AEQ-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.38	5.09	4.19
LT1764AEQ#PBF-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator*	5-DD	7.38	5.09	4.19
LT1764AEQ-1.5-ND	1.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.38	5.09	4.19
LT1764AEQ-1.5#PBF-ND	1.5V, 3A, Fast Transient Response, Low Noise LDO Regulator*	5-DD	7.38	5.09	4.19
LT1764AEQ-1.8-ND	1.8V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.38	5.09	4.19
LT1764AEQ-1.8#PBF-ND	1.8V, 3A, Fast Transient Response, Low Noise LDO Regulator*	5-DD	7.38	5.09	4.19
LT1764AEQ-2.5-ND	2.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.38	5.09	4.19
LT1764AEQ-2.5#PBF-ND	2.5V, 3A, Fast Transient Response, Low Noise LDO Regulator*	5-DD	7.38	5.09	4.19
LT1764AEQ-3.3#PBF-ND	3.3V, 3A, Fast Transient Response, Low Noise LDO Regulator*	5-DD	7.38	5.09	4.19
LT1764AET#PBF-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator*	TO-220-5	7.38	5.09	4.19
LT1764AET-1.5-ND	1.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	TO-220-5	7.38	5.09	4.19
LT1764AET-1.8-ND	1.8V, 3A, Fast Transient Response, Low Noise LDO Regulator	TO-220-5	7.38	5.09	4.19
LT1764AET-3.3#PBF-ND	3.3V, 3A, Fast Transient Response, Low Noise LDO Regulator*	TO-220-5	7.38	5.09	4.19
LT1764EQ-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.38	5.09	4.19
LT1764EQ#PBF-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator*	5-DD	7.38	5.09	4.19
LT1764EQ-2.5-ND	2.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.38	5.09	4.19
LT1764EQ-2.5#PBF-ND	2.5V, 3A, Fast Transient Response, Low Noise LDO Regulator*	5-DD	7.38	5.09	4.19
LT1764EQ-3.3#PBF-ND	3.3V, 3A, Fast Transient Response, Low Noise LDO Regulator*	5-DD	7.38	5.09	4.19
LT1765EFE-ND	3A Step-Down Switching Regulator	16-TSSOP	9.65	6.89	5.68
LT1765EFE#PBF-ND	3A Step-Down Switching Regulator*	16-TSSOP	9.65	6.89	5.68
LT1765EFE-1.8-ND	1.8V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.89	5.68
LT1765EFE-1.8#PBF-ND	1.8V, 3A Step-Down Switching Regulator*	16-TSSOP	9.65	6.89	5.68
LT1765EFE-2.5-ND	2.5V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.89	5.68
LT1765EFE-2.5#PBF-ND	2.5V, 3A Step-Down Switching Regulator*	16-TSSOP	9.65	6.89	5.68
LT1765EFE-3.3-ND	3.3V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.89	5.68
LT1765EFE-3.3#PBF-ND	3.3V, 3A Step-Down Switching Regulator*	16-TSSOP	9.65	6.89	5.68
LT1765EFE-5-ND	5V, 3A Step-Down Switching Regulator	16-TSSOP	9.65	6.89	5.68
LT1765EFE-5#PBF-ND	5V, 3A Step-Down Switching Regulator*	16-TSSOP	9.65	6.89	5.68
LT1765ES8-ND	3A-Step-Down Switching Regulator	8-SOIC	9.58	6.36	4.79
LT1765ES8#PBF-ND	3A-Step-Down Switching Regulator*	8-SOIC	9.58	6.36	4.79
LT1766EFE#PBF-ND	1.5A, 200kHz Step-Down Switching Regulator*	16-TSSOP	7.50	5.36	4.41
LT1766EGN-ND	1.5A, 200kHz High Volt. Step-Down Switching Regulator	16-SSOP	7.38	4.90	3.72
LT1766EGN#PBF-ND	1.5A, 200kHz High Volt. Step-Down Switching Regulator*	16-SSOP	7.38	4.90	3.72
LT1766EGN-5#PBF-ND	1.5A, 200kHz High Volt. Step-Down Switching Regulator*	16-SSOP	7.38	4.90	3.72
LT1766IGN#PBF-ND	1.5A, 200kHz High Volt. Step-Down Switching Regulator*	16-SSOP	9.00	5.98	4.50
LT1767EMS8#PBF-ND	Adj., Mono 1.5A, 1.25MHz Step-Down Switching Regulator*	8-MSOP	6.00	3.99	3.10
LT1767EMS8-1.8-ND	1.8V, Mono 1.5A, 1.25MHz Step-Down Switching Reg.	8-MSOP	6.00	3.99	3.10
LT1767EMS8-2.5-ND	2.5V, Mono 1.5A, 1.25MHz Step-Down Switching Regulator.	8-MSOP	6.00	3.99	3.10
LT1767EMS8-2.5#PBF-ND	2.5V, Mono 1.5A, 1.25MHz Step-Down Switching Regulator*	8-MSOP	6.00	3.99	3.10
LT1767EMS8-3.3#PBF-ND	3.3V, Mono 1.5A, 1.25MHz Step-Down Switching Regulator*	8-MSOP	6.00	3.99	3.10
LT1767EMS8-5-ND	5V, Mono 1.5A, 1.25MHz Step-Down Switching Regulator	8-MSOP	6.00	3.99	3.10
LT1767EMS8-5#PBF-ND	5V, Mono 1.5A, 1.25MHz Step-Down Switching Regulator*	8-MSOP	6.00	3.99	3.10
LT1767EMS8E#PBF-ND	Mono 1.5A, 1.25MHz Step-Down Switching Regulator*	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-1.8#PBF-ND	1.8V, Mono 1.5A, 1.25MHz Step-Down Switching Regulator*	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-3.3-ND	3.3V, Mono 1.5A, 1.25MHz Step-Down Switching Regulator.	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-3.3#PBF-ND	3.3V, Mono 1.5A, 1.25MHz Step-Down Switching Regulator*	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-5#PBF-ND	5V, Mono 1.5A, 1.25MHz Step-Down Switching Regulator*	8-MSOP	6.10	4.36	3.59
LT1776CN8#PBF-ND	High Eff., Step-Down Switching Regulator, Wide Input Range*	8-Dip	5.00	3.32	2.65
LT1776CS8-ND	High Eff., Step-Down Switching Regulator, Wide Input Range	8-SOIC	5.25	3.49	2.75
LT1776CS8#PBF-ND	High Eff., Step-Down Switching Regulator, Wide Input Range*	8-SOIC	5.25	3.49	2.75
LT1776IS8-ND	High Eff., Step-Down Switching Regulator, Wide Input Range	8-SOIC	4.00	2.66	2.10

** RoHS Compliant*

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1776IS8#PBF-ND	High Eff., Step-Down Switching Regulator, Wide Input Range*	8-SOIC	6.00	3.99	3.15
LT1777IS-ND	Low Noise Step-Down Switching Regulator	16-SOIC	6.25	4.15	3.35
LT1777IS#PBF-ND	Low Noise Step-Down Switching Regulator*	16-SOIC	6.25	4.15	3.35
LT1930AES5#TRMPBFCT-ND	2.2MHz, Step-Up DC/DC Converter*	SOT-23-5	4.70	4.20	3.78
LT1930AES5#TRMPBFTR-ND	2.2MHz, Step-Up DC/DC Converter*	SOT-23-5	1050.00/500		
LT1930ES5#TRMCT-ND	1.2MHz, Step-Up DC/DC Converter	SOT-23-5	4.70	4.20	3.78
LT1930ES5#TRMTR-ND	1.2MHz, Step-Up DC/DC Converter	SOT-23-5	1050.00/500		
LT1930ES5#TRMPBFCT-ND	1.2MHz, Step-Up DC/DC Converter*	SOT-23-5	4.70	4.20	3.78
LT1930ES5#TRMPBFTR-ND	1.2MHz, Step-Up DC/DC Converter*	SOT-23-5	1050.00/500		
LT1931AES5#TRMPBFCT-ND	2.2MHz, Inverting DC/DC Converter*	TSOT-23-5	4.98	4.45	4.01
LT1931AES5#TRMPBFTR-ND	2.2MHz, Inverting DC/DC Converter*	TSOT-23-5	1125.00/500		
LT1931ES5#TRMCT-ND	1.2MHz, Inverting DC/DC Converter	TSOT-23-5	4.98	4.45	4.01
LT1931ES5#TRMTR-ND	1.2MHz, Inverting DC/DC Converter	TSOT-23-5	1125.00/500		
LT1931ES5#TRMPBFCT-ND	1.2MHz, Inverting DC/DC Converter*	TSOT-23-5	4.98	4.45	4.01
LT1931ES5#TRMPBFTR-ND	1.2MHz, Inverting DC/DC Converter*	TSOT-23-5	1125.00/500		
LT1932ES6#TRMCT-ND	Constant-Current DC/DC LED Driver	SOT-23-6	4.17	3.73	3.36
LT1932ES6#TRMPBFCT-ND	Constant-Current DC/DC LED Driver*	SOT-23-6	4.17	3.73	3.36
LT1932ES6#TRMPBFTR-ND	Constant-Current DC/DC LED Driver*	SOT-23-6	950.00/500		
LT1933ES6#TRMPBFCT-ND	600mA, 500kHz Step-Down Switching Reg.*	TSOT-23-6	4.48	4.00	3.60
LT1933ES6#TRMPBFTR-ND	600mA, 500kHz Step-Down Switching Reg.*	TSOT-23-6	1170.00/500		
LT1934ES6#TRMPBFCT-ND	Micropower Step-Down Switching Reg.*	TSOT-23-6	5.12	4.58	4.12
LT1934ES6#TRMPBFTR-ND	Micropower Step-Down Switching Reg.*	TSOT-23-6	1220.00/500		
LT1935ES5#TRMPBFCT-ND	1.2MHz Boost DC/DC Converter*	TSOT-23-5	5.68	5.08	4.57
LT1935ES5#TRMPBFTR-ND	1.2MHz Boost DC/DC Converter*	TSOT-23-5	1350.00/500		
LT1937ES5#TRMPBFCT-ND	White LED Step-Up Converter*	TSOT-23-5	3.02	2.70	2.43
LT1937ES5#TRMPBFTR-ND	White LED Step-Up Converter*	TSOT-23-5	790.00/500		
LT1940EFE-ND	Dual Mono 1.4A, 1.1MHz Step-Down Switching Regulator	16-TSSOP	7.40	5.29	4.35
LT1944-1EMS#PBF-ND	Dual Micropower Step-Up DC/DC Converter*	10-MSOP	4.25	2.83	2.13
LT1944EMS-ND	Dual Micropower Step-Up DC/DC Converter	10-MSOP	4.25	2.83	2.13
LT1944EMS#PBF-ND	Dual Micropower Step-Up DC/DC Converter*	10-MSOP	4.25	2.83	2.13
LT1945EMS#PBF-ND	Dual Micropower DC/DC Converter*	10-MSOP	4.25	2.83	2.13
LT1946AEMS8E#PBF-ND	2.7MHz Boost DC/DC Converter, 1.5A Switch*	8-MSOP	3.50	2.33	1.86
LT1946EMS8#PBF-ND	1.2MHz Boost DC/DC Converter, 1.5A Switch*	8-MSOP	3.50	2.33	1.86
LT1947EMS-ND	Adj. Output TFT-LCD Triple Switching Reg.	10-MSOP	5.13	3.41	2.65
LT1947EMS#PBF-ND	Adj. Output TFT-LCD Triple Switching Reg.*	10-MSOP	5.13	3.41	2.65
LT1949-1EMS8-ND	1.1MHz, 1A Switch PWM DC/DC Converter	8-MSOP	4.50	2.66	2.30
LT1949EMS8-ND	600kHz, 1A Switch PWM DC/DC Converter	8-MSOP	4.50	2.99	2.30
LT1949EMS8#PBF-ND	600kHz, 1A Switch PWM DC/DC Converter*	8-MSOP	4.50	2.99	2.30
LT1950IGN#PBF-ND	Single Switch PWM Controller*	16-SSOP	6.63	4.73	3.90
LT1956EGN#PBF-ND	1.5A, High Voltage Step-Down Switching Reg.*	16-SSOP	7.38	4.90	3.72
LT1956EGN-5-ND	1.5A, 5V Step-Down Switching Regulator	16-SSOP	7.38	4.90	3.72
LT1956EGN-5#PBF-ND	1.5A, 5V Step-Down Switching Regulator*	16-SSOP	7.38	4.90	3.72
LT1961EMS8E-ND	1.5A, Step-Up Switching Regulator	8-MSOP	3.38	2.25	1.80
LT1961EMS8E#PBF-ND	1.5A, Step-Up Switching Regulator*	8-MSOP	3.38	2.25	1.80
LT1962EMS8-ND	Adj., 300mA, Low Noise MPU LDO Regulator	8-MSOP	3.50	2.33	1.80
LT1962EMS8#PBF-ND	Adj., 300mA, Low Noise MPU LDO Regulator*	8-MSOP	3.50	2.33	1.80
LT1962EMS8-1.5#PBF-ND	1.5V, 300mA, Low Noise MPU LDO Regulator*	8-MSOP	3.50	2.33	1.80
LT1962EMS8-2.5#PBF-ND	2.5V, 300mA, Low Noise MPU LDO Regulator*	8-MSOP	3.50	2.33	1.80
LT1962EMS8-3#PBF-ND	3V, 300mA, Low Noise MPU LDO Regulator*	8-MSOP	3.50	2.33	1.80
LT1962EMS8-3.3#PBF-ND	3.3V, 300mA, Low Noise MPU LDO Regulator*	8-MSOP	3.50	2.33	1.80
LT1962EMS8-5#PBF-ND	5V, 300mA, Low Noise MPU LDO Regulator*	8-MSOP	3.50	2.33	1.80
LT1963AEQ-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator	5-DD	5.50	3.66	2.94
LT1963AEQ#PBF-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator*	5-DD	5.50	3.66	2.94
LT1963AEQ-1.5-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	5-DD	5.50	3.66	2.94
LT1963AEQ-1.5#PBF-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	5-DD	5.50	3.66	2.94
LT1963AEQ-1.8#PBF-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	5-DD	5.50	3.66	2.94
LT1963AEQ-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	5-DD	5.50	3.66	2.94
LT1963AEQ-2.5#PBF-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	5-DD	5.50	3.66	2.94
LT1963AEQ-3.3-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	5-DD	5.50	3.66	2.94
LT1963AEQ-3.3#PBF-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	5-DD	5.50	3.66	2.94
LT1963AES8#PBF-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator*	8-SOIC	4.50	2.99	2.30
LT1963AES8-1.5#PBF-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	8-SOIC	4.50	2.99	2.30
LT1963AES8-1.8#PBF-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	8-SOIC	4.50	2.99	2.30
LT1963AES8-2.5#PBF-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	8-SOIC	4.50	2.99	2.30
LT1963AES8-3.3#PBF-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	8-SOIC	4.50	2.99	2.30
LT1963AEST-1.5-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator.	SOT-223	4.75	3.16	2.38
LT1963AEST-1.5#PBF-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	SOT-223	4.75	3.16	2.38
LT1963AEST-1.8#PBF-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	SOT-223	4.75	3.16	2.38
LT1963AEST-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	SOT-223	4.75	3.16	2.38
LT1963AEST-2.5#PBF-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	SOT-223	4.75	3.16	2.38
LT1963AEST-3.3-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	SOT-223	4.75	3.16	2.38
LT1963AEST-3.3#PBF-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	SOT-223	4.75	3.16	2.38
LT1963AET-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.50	3.66	2.94

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1963AET#PBF-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator*	TO-220-5	5.50	3.66	2.94
LT1963AET-1.5-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.50	3.66	2.94
LT1963AET-1.5#PBF-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	TO-220-5	5.25	3.57	2.94
LT1963AET-1.8-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.50	3.66	2.94
LT1963AET-1.8#PBF-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	TO-220-5	5.50	3.66	2.94
LT1963AET-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	TO-220-5	5.50	3.66	2.94
LT1963AET-2.5#PBF-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	TO-220-5	5.50	3.66	2.94
LT1963AET-3.3#PBF-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	TO-220-5	5.50	3.66	2.94
LT1963EQ-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator.	5-DD	5.50	3.66	2.94
LT1963EQ#PBF-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Regulator*	5-DD	5.50	3.66	2.94
LT1963EST-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator	SOT-223	4.75	3.16	2.38
LT1963EST-2.5#PBF-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	SOT-223	4.75	3.16	2.38
LT1963EST-3.3#PBF-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Regulator*	SOT-223	4.75	3.16	2.38
LT1964ES5-BYP#TRMPBFCT-ND	200mA, Low Noise LDO Neg. MPU Regulator*	SOT-23-5	3.25	2.90	2.61
LT1964ES5-BYP#TRMPBFTR-ND	200mA, Low Noise LDO Neg. MPU Regulator*	SOT-23-5	740.00/500		
LT1964ES5-SD#TRMPBFCT-ND	200mA, Low Noise LDO Neg. MPU Regulator*	SOT-23-5	3.25	2.90	2.61
LT1964ES5-SD#TRMPBFTR-ND	200mA, Low Noise LDO Neg. MPU Regulator*	SOT-23-5	740.00/500		
LT1964ES5-5#TRMPBFCT-ND	200mA, 5V Low Noise LDO Neg. MPU Reg.*	SOT-23-5	3.25	2.90	2.61
LT1964ES5-5#TRMPBFTR-ND	200mA, 5V Low Noise LDO Neg. MPU Reg.*	SOT-23-5	740.00/500		
LT1965EDD#PBF-ND	1.1A, Low Noise LDO Linear Regulator*	8-DFN	3.75	2.69	2.21
LT1965EMS8E#PBF-ND	1.1A, Low Noise LDO Linear Regulator*	8-MSOP	3.88	2.77	2.28
LT1965IDD#PBF-ND	1.1A, Low Noise LDO Linear Regulator*	8-DFN	4.33	3.09	2.54
LT1965IMS8E#PBF-ND	1.1A, Low Noise LDO Linear Regulator*	8-MSOP	4.45	3.19	2.62
LT1976IFE-ND	HV 1.5A, 200kHz Step-Down Switching Reg.	16-TSSOP	9.20	6.57	5.41
LT1976IFE#PBF-ND	HV 1.5A, 200kHz Step-Down Switching Reg.*	16-TSSOP	9.20	6.57	5.41
LT3009EDC#TRMPBFCT-ND	3µA IQ, 20mA LDO Linear Regulator*	6-DFN	2.24	2.00	1.80
LT3009EDC#TRMPBFTR-ND	3µA IQ, 20mA LDO Linear Regulator*	6-DFN	585.00/500		
LT3010EMS8E#PBF-ND	50mA, 3V to 80V LDO Micropower Linear Reg.*	8-MSOP	3.13	2.23	1.84
LT3010EMS8E-5#PBF-ND	50mA, 3V to 80V LDO MPU Linear Regulator*	8-MSOP	3.13	2.23	1.84
LT3010HMS8E-5#PBF-ND	50mA, 3V to 80V LDO MPU Linear Regulator*	8-MSOP	4.10	2.93	2.41
LT3023EDD-ND	Dual 100mA, LDO Low Noise Micropower Reg.	10-DFN	3.40	2.43	2.00
LT3023EDD#PBF-ND	Dual 100mA, LDO Low Noise Micropower Reg.*	10-DFN	3.40	2.43	2.00
LT3023EMSE#PBF-ND	Dual 100mA, LDO LN Micropower Regulator*	10-MSOP	3.20	2.29	1.88
LT3080EDD#PBF-ND	Single 1.1A LDO Regulator*	8-DFN	3.75	2.69	2.21
LT3080EMS8E#PBF-ND	Single 1.1A LDO Regulator*	8-MSOP	3.88	2.77	2.28
LT3080EST#PBF-ND	Single 1.1A LDO Regulator*	SOT-223	3.63	2.59	2.13
LT3080ET#PBF-ND	Single 1.1A LDO Regulator*	TO220-5	4.38	3.14	2.59
LT3430EFE#PBF-ND	High Voltage, 3A, 200kHz Step-Down Switching Regulator*	16-TSSOP	9.90	7.07	5.82
LT3430EFE-1#PBF-ND	High Voltage, 3A 100kHz Step-Down Switching Regulator*	16-TSSOP	9.90	7.07	5.82
LT3430IFE#PBF-ND	High Voltage, 3A 200kHz Step-Down Switching Regulator*	16-TSSOP	11.38	8.13	6.69
LT3430IFE-1#PBF-ND	High Voltage, 3A 100kHz Step-Down Switching Regulator*	16-TSSOP	11.38	8.13	6.69
LT3431EFE-ND	High Voltage, 3A, Step-Down Switching Reg.	16-TSSOP	9.90	7.07	5.82
LT3431EFE#PBF-ND	High Voltage, 3A, Step-Down Switching Regulator*	16-TSSOP	9.90	7.07	5.82
LT3437HFE#PBF-ND	High Voltage, 500mA, 200kHz, Step-Down Switching Regulator*	16-TSSOP	6.00	4.29	3.53
LT3439EFE#PBF-ND	Ultralow Noise 1A Isolated DC/DC Transformer Driver*	16-TSSOP	7.00	5.00	4.12
LT3460ES5#TRMPBFCT-ND	1.3MHz Step-Up DC/DC Converter*	TSOT-23-5	3.70	3.30	2.97
LT3460ES5#TRMPBFTR-ND	1.3MHz Step-Up DC/DC Converter*	TSOT-23-5	965.00/500		
LT3461AES6#TRMCT-ND	3MHz Step-Up DC/DC Converter	TSOT-23-6	3.92	3.50	3.15
LT3461AES6#TRMPBFCT-ND	3MHz Step-Up DC/DC Converter*	TSOT-23-6	3.92	3.50	3.15
LT3461AES6#TRMPBFTR-ND	3MHz Step-Up DC/DC Converter*	TSOT-23-6	1025.00/500		
LT3461ES6#TRMCT-ND	1.3MHz Step-Up DC/DC Converter	TSOT-23-6	3.92	3.50	3.15
LT3461ES6#TRMPBFCT-ND	1.3MHz Step-Up DC/DC Converter*	TSOT-23-6	3.92	3.50	3.15
LT3461ES6#TRMPBFTR-ND	1.3MHz Step-Up DC/DC Converter*	TSOT-23-6	1025.00/500		
LT3464ETS8#TRMCT-ND	Micropower Boost Converter	SOT-23-8	3.70	3.30	2.97
LT3464ETS8#TRMTR-ND	Micropower Boost Converter	SOT-23-8	965.00/500		
LT3464ETS8#TRMPBFCT-ND	Micropower Boost Converter*	SOT-23-8	3.70	3.30	2.97
LT3464ETS8#TRMPBFTR-ND	Micropower Boost Converter*	SOT-23-8	965.00/500		
LT3467AES6#TRMPBFCT-ND	1.1A Step-Up DC/DC Converter*	TSOT-23-6	4.14	3.70	3.33
LT3467AES6#TRMPBFTR-ND	1.1A Step-Up DC/DC Converter*	TSOT-23-6	1085.00/500		
LT3467ES6#TRMPBFCT-ND	1.1A Step-Up DC/DC Converter*	TSOT-23-6	4.14	3.70	3.33
LT3467ES6#TRMPBFTR-ND	1.1A Step-Up DC/DC Converter*	TSOT-23-6	1085.00/500		
LT3470ETS8#TRMPBFCT-ND	Micropower Buck Regulator*	TSOT-23-8	5.38	4.80	4.32
LT3470ETS8#TRMPBFTR-ND	Micropower Buck Regulator*	TSOT-23-8	1275.00/500		
LT3470ITS8#TRMPBFCT-ND	Micropower Buck Regulator*	TSOT-23-8	6.41	5.73	5.16
LT3470ITS8#TRMPBFTR-ND	Micropower Buck Regulator*	TSOT-23-8	1520.00/500		
LT3480EDD#PBF-ND	38V, 2A, 2.4MHz Step-Down Switching Regulator*	10-DFN	6.90	4.93	4.06
LT3480EMSE#PBF-ND	38V, 2A, 2.4MHz Step-Down Switching Regulator*	10-MSOP	7.10	5.07	4.18
LT3483EDC#TRMPBFCT-ND	Inverting Micropower DC/DC Converter*	8-DFN	4.82	4.30	3.87
LT3483EDC#TRMPBFTR-ND	Inverting Micropower DC/DC Converter*	8-DFN	1140.00/500		
LT3500EDD#PBF-ND	2A Step-Down Regulator/Controller*	12-DFN	6.50	4.64	3.82
LT3500HDD#PBF-ND	2A Step-Down Regulator/Controller*	12-DFN	8.30	5.93	4.88
LT3500IDD#PBF-ND	2A Step-Down Regulator/Controller*	12-DFN	7.80	5.57	4.59
LT3502AIDC#TRMPBFCT-ND	2.2MHz, 500mA Step-Down Regulator*	8-DFN	5.35	4.78	4.30
LT3502AIDC#TRMPBFTR-ND	2.2MHz, 500mA Step-Down Regulator*	8-DFN	1400.00/500		
LT3502IDC#TRMPBFCT-ND	2.2MHz, 500mA Step-Down Regulator*	8-DFN	5.35	4.78	4.30
LT3502IDC#TRMPBFTR-ND	2.2MHz, 500mA Step-Down Regulator*	8-DFN	1400.00/500		
LT3506AIDHD#PBF-ND	Dual Mono 1.6A Step-Down Switching Reg.*	16-DFN	7.08	5.06	4.17
LT3506IDHD#PBF-ND	Dual Mono 1.6A Step-Down Switching Reg.*	16-DFN	7.08	5.06	4.17

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT3508EUF#PBF-ND	Dual Mono 1.4A Step-Down Switching Reg.*	24-QFN	6.70	4.79	3.94
LT3508HFE#PBF-ND	Dual Mono 1.4A Step-Down Switching Reg.*	16-TSSOP	8.90	6.36	5.24
LT3508HUF#PBF-ND	Dual Mono 1.4A Step-Down Switching Reg.*	24-QFN	8.55	6.10	5.02
LT3508IFE#PBF-ND	Dual Mono 1.4A Step-Down Switching Reg.*	16-TSSOP	8.40	6.00	4.94
LT3508IUF#PBF-ND	Dual Mono 1.4A Step-Down Switching Reg.*	24-QFN	8.05	5.74	4.73
LT3580EDD#PBF-ND	Boost/Inverting DC/DC Converter*	8-DFN	4.00	2.86	2.35
LT3580EMS8E#PBF-ND	Boost/Inverting DC/DC Converter*	8-MSOP	4.20	3.00	2.47
LT3580IDD#PBF-ND	Boost/Inverting DC/DC Converter*	8-DFN	4.80	3.43	2.82
LT3580IMS8E#PBF-ND	Boost/Inverting DC/DC Converter*	8-MSOP	5.05	3.60	2.97
LT3680EDD#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-DFN	8.30	5.93	4.88
LT3680EMSE#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	8.50	6.07	5.00
LT3680IDD#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-DFN	9.95	7.11	5.86
LT3680IMSE#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	10.20	7.29	6.00
LT3681EDE#PBF-ND	36V, 2A, 2.8MHz Step-Down Switching Reg.*	14-DFN	7.30	5.21	4.29
LT3684EMSE#PBF-ND	36V, 2A, 2.8MHz Step-Down Switching Reg.*	10-MSOP	6.15	4.36	3.59
LT3684IDD#PBF-ND	36V, 2A, 2.8MHz Step-Down Switching Reg.*	10-DFN	7.08	5.06	4.17
LT3684IMSE#PBF-ND	36V, 2A, 2.8MHz Step-Down Switching Reg.*	10-MSOP	7.33	5.20	4.28
LT3685EDD#PBF-ND	38V, 2A, 2.4MHz Step-Down Switching Reg.*	10-DFN	6.10	4.36	3.59
LT3685EMSE#PBF-ND	38V, 2A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	6.30	4.50	3.71
LT3685IDD#PBF-ND	38V, 2A, 2.4MHz Step-Down Switching Reg.*	10-DFN	7.33	5.23	4.31
LT3685IMSE#PBF-ND	38V, 2A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	7.55	5.40	4.45
LT3693EDD#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-DFN	7.70	5.50	4.53
LT3693EMSE#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	7.90	5.64	4.65
LT3693IDD#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-DFN	9.25	6.60	5.44
LT3693IMSE#PBF-ND	36V, 3.5A, 2.4MHz Step-Down Switching Reg.*	10-MSOP	9.48	6.77	5.58
LT3710EFE-ND	High Efficiency Step-Down Switching Regulator	16-TSSOP	7.88	5.63	4.63
LT3710EFE#PBF-ND	High Efficiency Step-Down Switching Reg.*	16-TSSOP	7.88	5.63	4.63
LT3781IG-ND	Dual Transistor Synchronous Forward Controller	20-SSOP	11.00	7.86	6.47
LT3800IFE#PBF-ND	High Voltage Sync. Step-Down Controller*	16-TSSOP	8.08	5.64	4.65
LTC1142CG-ND	Dual Step-Down Switching Regulator	28-SSOP	11.25	7.50	6.00
LTC1143LCS-ND	Dual Step-Down Switching Regulator	16-SOIC	8.25	5.48	4.60
LTC1143LCS#PBF-ND	Dual Step-Down Switching Regulator*	16-SOIC	8.25	5.48	4.60
LTC1147CN8-5-ND	5V, High Efficiency Step-Down Regulator	8-Dip	5.13	3.41	2.65
LTC1147CS8-3.3-ND	3.3V, High Efficiency Step-Down Regulator	8-SOIC	5.38	3.57	2.80
LTC1147CS8-3.3#PBF-ND	3.3V, High Efficiency Step-Down Regulator*	8-SOIC	5.38	3.57	2.80
LTC1147CS8-5#PBF-ND	5V, High Efficiency Step-Down Regulator*	8-SOIC	5.38	3.57	2.80
LTC1147LCS8-ND	High Efficiency Step-Down Regulator	8-SOIC	6.00	3.99	3.15
LTC1147LCS8#PBF-ND	High Efficiency Step-Down Regulator*	8-SOIC	6.00	3.99	3.15
LTC1148CN-ND	High Efficiency Sync. Step-Down Regulator	14-Dip	7.88	5.25	4.50
LTC1148CN#PBF-ND	High Efficiency Sync. Step-Down Regulator*	14-Dip	7.88	5.25	4.50
LTC1148CS-ND	High Efficiency Sync. Step-Down Regulator	14-SOIC	8.13	5.40	4.60
LTC1148CS#PBF-ND	High Efficiency Sync. Step-Down Regulator*	14-SOIC	8.13	5.40	4.60
LTC1148CS-3.3-ND	3.3V, High Efficiency Sync. Step-Down Regulator	14-SOIC	8.13	5.40	4.60
LTC1148CS-5#PBF-ND	5V, High Efficiency Sync. Step-Down Regulator*	14-SOIC	8.13	5.40	4.60
LTC1148HVCS-ND	High Efficiency Sync. Step-Down Regulator	14-SOIC	8.50	5.65	4.80
LTC1148HVCS#PBF-ND	High Efficiency Sync. Step-Down Regulator*	14-SOIC	8.50	5.65	4.80
LTC1148HVCS-5-ND	5V, High Efficiency Sync. Step-Down Regulator	14-SOIC	8.50	5.65	4.80
LTC1148LCS-3.3#PBF-ND	3.3V, High Efficiency Sync. Step-Down Reg.*	14-SOIC	8.75	5.85	4.90
LTC1149CN#PBF-ND	High Efficiency Sync. Step-Down Regulator*	16-Dip	9.63	6.40	5.50
LTC1149CN-5-ND	5V, High Efficiency Sync. Step-Down Regulator	16-Dip	9.63	6.40	5.50
LTC1149CS-ND	High Efficiency Sync. Step-Down Regulator	16-SOIC	10.00	6.64	5.00
LTC1149CS#PBF-ND	High Efficiency Sync. Step-Down Regulator*	16-SOIC	10.00	6.64	5.00
LTC1159CS-ND	High Efficiency Sync. Step-Down Switching Reg	16-SOIC	9.00	6.00	4.90
LTC1159CS#PBF-ND	High Efficiency Sync. Step-Down Switching Reg*	16-SOIC	9.00	6.00	4.90
LTC1159CS-3.3-ND	3.3V, High Effic. Sync. Step-Down Switching Reg.	16-SOIC	9.00	6.00	4.90
LTC1174CN8#PBF-ND	Adj., Step-Down and Inverting DC/DC Converter*	8-Dip	6.50	4.35	3.60
LTC1174CS8-ND	Adj., Step-Down and Inverting DC/DC Converter	8-SOIC	6.88	4.60	3.80
LTC1174CS8#PBF-ND	Adj., Step-Down and Inverting DC/DC Converter*	8-SOIC	6.88	4.60	3.80
LTC1174CS8-3.3#PBF-ND	3.3V, Step-Down and Inverting DC/DC Converter*	8-SOIC	6.88	4.60	3.80
LTC1174CS8-5#PBF-ND	5V, Step-Down and Inverting DC/DC Converter*	8-SOIC	6.88	4.60	3.80
LTC1174HVCN8-ND	Adj., Step-Down and Inverting DC/DC Converter	8-Dip	7.50	5.00	4.10
LTC1174HVCS8-ND	Adj., Step-Down and Inverting DC/DC Converter	8-SOIC	7.88	5.25	4.25
LTC1174HVCS8#PBF-ND	Adj., Step-Down and Inverting DC/DC Converter*	8-SOIC	7.88	5.25	4.25
LTC1174HVCS8-3.3#PBF-ND	3.3V, Step-Down and Inverting DC/DC Converter*	8-SOIC	7.88	5.25	4.25
LTC1174HVCS8-5#PBF-ND	5V, Step-Down and Inverting DC/DC Converter*	8-SOIC	7.88	5.25	4.25
LTC1263CS8#PBF-ND	12V, 60mA Flash Memory DC/DC Converter*	8-SOIC	7.00	4.65	3.50
LTC1265CS#PBF-ND	Adj., 1.2A High Efficiency, Step-Down DC/DC Converter*	14-SOIC	6.88	4.60	3.95
LTC1430ACGN#PBF-ND	Step-Down Switching Regulator Controller*	16-SSOP	7.75	5.15	3.98
LTC1430ACS-ND	Step-Down Switching Regulator Controller	16-SOIC	7.13	4.74	3.59
LTC1430ACS8-ND	Step-Down Switching Regulator Controller	8-SOIC	6.25	4.15	3.13
LTC1430IS-ND	Step-Down Switching Regulator Controller	16-SOIC	8.88	6.79	5.59
LTC1430IS#PBF-ND	Step-Down Switching Regulator Controller*	16-SOIC	8.88	6.79	5.59
LTC1435ACS#PBF-ND	Low Noise Sync. Step-Down Switching Reg.*	16-SOIC	8.38	5.57	4.80
LTC1435AIG#PBF-ND	Low Noise Sync. Step-Down Switching Reg.*	16-SSOP	11.25	7.47	6.45
LTC1435AIS-ND	Low Noise Sync. Step-Down Switching Regulator	16-SOIC	10.50	6.98	6.00
LTC1435AIS#PBF-ND	Low Noise Sync. Step-Down Switching Reg.*	16-SOIC	10.50	6.98	6.00
LTC1435CG-ND	Low Noise Sync. Step-Down Switching Regulator	16-SSOP	9.00	5.98	5.15
LTC1435CG#PBF-ND	Low Noise Sync. Step-Down Switching Reg.*	16-SSOP	9.00	5.98	5.15
LTC1435CS-ND	Low Noise Sync. Step-Down Switching Regulator	16-SOIC	8.38	5.57	4.23
LTC1435IS-ND	Low Noise Sync. Step-Down Switching Regulator	16-SOIC	10.50	6.98	6.00
LTC1436ACGN-PLL-ND	Low Noise Sync. Step-Down Switching Regulator	24-SSOP	10.00	6.64	5.70
LTC1436ACGN-PLL#PBF-ND	Low Noise Sync. Step-Down Switching Reg.*	24-SSOP	10.00	6.64	5.70
LTC1436AIGN-PLL#PBF-ND	Low Noise Sync. Step-Down Switching Reg.*	24-SSOP	12.50	8.30	6.65
LTC1438CG-ADJ-ND	Dual, Sync. Step-Down Switching Regulator	28-SSOP	14.00	9.30	7.50
LTC1438CG-ADJ#PBF-ND	Dual, Sync. Step-Down Switching Regulator*	28-SSOP	14.00	9.30	7.50
LTC1439CG-ND	Dual, Sync. Step-Down Switching Regulator	36-SSOP	15.38	10.21	8.75
LTC1474CMS8#PBF-ND	Adj. High Efficiency, Step-Down DC/DC Converter*	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-3.3-ND	3.3V, High Efficiency, Step-Down DC/DC Converter	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-3.3#PBF-ND	3.3V, High Efficiency, Step-Down DC/DC Converter*	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-5#PBF-ND	5V, High Efficiency, Step-Down DC/DC Converter*	8-MSOP	7.50	4.98	4.00
LTC1474CS8#PBF-ND	Adj. High Efficiency, Step-Down DC/DC Converter*	8-SOIC	6.88	4.57	3.65
LTC1474CS8-3.3#PBF-ND	3.3V, High Efficiency, Step-Down DC/DC Converter*	8-SOIC	6.88	4.57	3.65
LTC1474CS8-5#PBF-ND	5V, High Efficiency, Step-Down DC/DC Converter*	8-SOIC	6.88	4.57	3.65
LTC1474IS8-ND	Adj. High Efficiency, Step-Down DC/DC Converter	8-SOIC	8.25	5.48	4.40
LTC1474IS8-3.3#PBF-ND	3.3V, High Efficiency, Step-Down DC/DC Converter*	8-SOIC	8.25	5.48	4.40
LTC1475CS8-5-ND	5V, High Efficiency, Step-Down DC/DC Converter	8-SOIC	7.13	4.74	3.80
LTC1475CS8-5#PBF-ND	5V, High Efficiency, Step-Down DC/DC Converter*	8-SOIC	7.13	4.74	3.80
LTC1475IS8-ND	Adj. High Efficiency, Step-Down DC/DC Converter	8-SOIC	8.50	5.65	4.85
LTC1504ACS8-ND	Adj. Step-Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1504ACS8-3.3-ND	3.3V Step-Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1504CS8#PBF-ND	Adj. Step-Down Sync. Switching Regulator*	8-SOIC	5.13	3.41	2.57
LTC1530CS8-ND	Adj. Synchronous Switching Regulator Controller	8-SOIC	6.25	4.15	3.15
LTC1530CS8#PBF-ND	Adj. Synchronous Switching Regulator Controller*	8-SOIC	6.25	4.15	3.15
LTC1530CS8-3.3-ND	3.3V Synchronous Switching Regulator Controller	8-SOIC	6.25	4.15	3.15
LTC1574CS#PBF-ND	Adjustable CMOS Step-Down, DC/DC Converter*	16-SOIC	8.50	5.65	4.85
LTC1622CMS8-ND	Low Voltage, Step-Down DC/DC Controller	8-MSOP	4.38	2.91	2.19
LTC1622CMS8#PBF-ND	Low Voltage, Step-Down DC/DC Controller*	8-MSOP	4.38	2.91	2.19
LTC1622CS8-ND	Low Voltage, Step-Down DC/DC Controller	8-SOIC	3.88	2.58	1.94
LTC1622CS8#PBF-ND	Low Voltage, Step-Down DC/DC Controller*	8-SOIC	3.88	2.58	1.94
LTC1624CS8-ND	High Eff. N-Channel Switching Reg. Controller	8-SOIC	7.13	4.74	3.75
LTC1624CS8#PBF-ND	High Eff. N-Channel Switching Reg. Controller*	8-SOIC	7.13	4.74	3.75
LTC1624IS8-ND	High Eff. N-Channel Switching Reg. Controller	8-SOIC	8.88	5.90	4.80
LTC1624IS8#PBF-ND	High Eff. N-Channel Switching Reg. Controller*	8-SOIC	8.88	5.90	4.80
LTC1625CS-ND	No RSENSE™ Sync. Step-Down Switching Reg.	16-SOIC	9.13	6.06	4.85
LTC1625CS#PBF-ND	No RSENSE™ Sync. Step-Down Switching Reg.*	16-SOIC	9.13	6.06	4.85
LTC1625IGN#PBF-ND	No RSENSE™ Sync. Step-Down Switching Reg.*	16-SSOP	11.75	7.81	6.28
LTC1625IS-ND	No RSENSE™ Sync. Step-Down Switching Reg.	16-SOIC	11.00	7.31	5.85
LTC1625IS#PBF-ND	No RSENSE™ Sync. Step-Down Switching Reg.*	16-SOIC	11.00	7.31	5.85
LTC1627CS8-ND	Mono Synchronous Step-Down Switching Reg.	8-SOIC	4.38	2.91	2.19
LTC1627CS8#PBF-ND	Mono Synchronous Step-Down Switching Reg.*	8-SOIC	4.38	2.91	2.19
LTC1627IS8#PBF-ND	Mono Synchronous Step-Down Switching Reg.*	8-SOIC	6.50	4.32	3.25
LTC1628CG#PBF-ND	Mono Step-Down Switching Regulator*	28-SSOP	9.13	6.06	4.75
LTC1628CG-SYNC#PBF-ND	Mono Synchronous Step-Down Switching Reg.*	28-SSOP	9.50	6.31	4.90
LTC1628CUH#PBF-ND	Mono Synchronous Step-Down Switching Reg.*	32-QFN	9.38	6.70	5.51
LTC1629IG-ND	Poly-Phase High Efficiency Sync. Step-Down Switching Regulator	28-SSOP	14.25	9.47	7.30
LTC1629IG#PBF-ND	Poly-Phase High Efficiency Sync. Step-Down Switching Regulator*	28-SSOP	14.25	9.47	7.30
LTC1649CS-ND	3.3V, Step-Down Switching Regulator Controller	16-SOIC	8.38	5.57	4.20
LTC1649CS#PBF-ND	3.3V, Step-Down Switching Reg. Controller*	16-SOIC	8.38	5.57	4.20
LTC1698EGN-ND	Secondary Synchronous Rectifier Controller	16-SSOP	11.25	7.47	5.63
LTC1698EGN#PBF-ND	Secondary Synchronous Rectifier Controller*	16-SSOP	11.25	7.47	5.63
LTC1698ES-ND	Secondary Synchronous Rectifier Controller	16-SOIC	11.38	7.56	5.69
LTC1701BES5#TRMCT-ND	1MHz Step-Down DC/DC Converter	SOT-23-5	4.42	3.95	3.56
LTC1701BES5#TRMPBFCT-ND	1MHz Step-Down DC/DC Converter*	SOT-23-5	4.42	3.95	3.56
LTC1702CGN#PBF-ND	Dual, 550kHz, Sync. Switch Reg. Controller*	24-SSOP	9.88	6.56	4.95
LTC1704EGN-ND	Dual, 550kHz, Sync. Switch Regulator Controller Plus Linear Regulator Controller	16-SSOP	8.25	5.89	4.85
LTC1704EGN#PBF-ND	Dual, 550kHz, Sync. Switch Regulator Controller Plus Linear Regulator Controller*	16-SSOP	8.25	5.89	4.85
LTC1735CF-ND	High Eff. Sync. Step-Down Switching Reg.	20-TSSOP	7.00	4.65	3.50
LTC1735CF#PBF-ND	High Eff. Sync. Step-Down Switching Reg.*	20-TSSOP	7.00	4.65	3.50
LTC1735CGN#PBF-ND	High Eff. Sync. Step-Down Switching Regulator*	16-SSOP	6.88	4.57	3.44
LTC1735CGN-1#PBF-ND	High Eff. Sync. Step-Down Switching Regulator*	16-SSOP	6.88	4.57	3.44
LTC1735CS-ND	High Eff. Sync. Step-Down Switching Regulator	16-SOIC	6.63	4.40	3.32
LTC1735CS#PBF-ND	High Eff. Sync. Step-Down Switching Regulator*	16-SOIC	6.63	4.40	3.32
LTC1735IGN#PBF-ND	High Eff. Sync. Step-Down Switching Regulator*	16-SSOP	9.00	5.98	4.50
LTC1735IS#PBF-ND	High Eff. Sync. Step-Down Switching Regulator*	16-SOIC	8.63	5.73	4.35
LTC1772BES6#TRMCT-ND	Constant Frequency, Current Mode Step-Down DC/DC Controller	SOT-23-6	4.56	4.08	3.67
LTC1772BES6#TRMPBFCT-ND	Constant Frequency, Current Mode Step-Down DC/DC Controller*	SOT-23-6	4.56	4.08	3.67
LTC1772BES6#TRMPBFTR-ND	Constant Frequency, Current Mode Step-Down DC/DC Controller*	SOT-23-6	995.00/500		
LTC1772ES6#TRMCT-ND	Constant Frequency, Current Mode Step-Down DC/DC Controller	SOT-23-6	4.56	4.08	3.67
LTC1772ES6#TRMPBFCT-ND	Constant Frequency, Current Mode Step-Down DC/DC Controller*	SOT-23-6	4.56	4.08	3.67
LTC1772ES6#TRMPBFTR-ND	Constant Frequency, Current Mode Step-Down DC/DC Controller*	SOT-23-6	995.00/500		
LTC1773EMS#PBF-ND	Sync. Step-Down DC/DC Controller*	10-MSOP	5.38	3.57	2.69
LTC1778EGN-ND	Sync. Step-Down Switching Regulator Controller	16-SSOP	5.75	3.82	2.88
LTC1778EGN#PBF-ND	Sync. Step-Down Switching Reg. Controller*	16-SSOP	5.75	3.82	2.88
LTC1778EGN-1-ND	Sync. Step-Down Switching Regulator Controller	16-SSOP	5.75	3.82	2.88
LTC1778EGN-1#PBF-ND	Sync. Step-Down Switching Reg. Controller*	16-SSOP	5.75	3.82	2.88
LTC1779ES6#TRMCT-ND	250mA Step-Down DC/DC Converter	SOT-23-6	4.45	3.98	3.58
LTC1779ES6#TRMPBFCT-ND	250mA Step-Down DC/DC Converter*	SOT-23-6	4.45	3.98	3.58
LTC1779ES6#TRMPBFTR-ND	250mA Step-Down DC/DC Converter*	SOT-23-6	1025.00/500		
LTC1844ES5-1.5#TRMCT-ND	150mA, Low Noise, VLDO™ Linear Regulator	SOT-23-5	2.88	2.58	2.32
LTC1844ES5-1.5#TRMPBFCT-ND	150mA, Low Noise, VLDO™ Linear Regulator*	SOT-23-5	2.88	2.58	2.32
LTC1844ES5-1.5#TRMPBFTR-ND	150mA, Low Noise, VLDO™ Linear Regulator*	SOT-23-5	750.00/500		
LTC1844ES5-1.8#TRMPBFCT-ND	150mA, Low Noise, VLDO™ Linear Regulator*	SOT-23-5	2.88	2.58	2.32
LTC1844ES5-1.8#TRMPBFTR-ND	150mA, Low Noise, VLDO™ Linear Regulator*	SOT-23-5	750.00/500		
LTC1844ES5-2.5#TRMCT-ND	150mA, Low Noise, VLDO™ Linear Regulator	SOT-23-5	2.88	2.58	2.32
LTC1844ES5-2.5#TRMPBFCT-ND	150mA, Low Noise, VLDO™ Linear Regulator*	SOT-23-5	2.88	2.58	2.32
LTC1844ES5-2.5#TRMPBFTR-ND	150mA, Low Noise, VLDO™ Linear Regulator*	SOT-23-5	750.00/500		
LTC1844ES5-3.3#TRMPBFCT-ND	150mA, Low Noise, VLDO™ Linear Regulator*	SOT-23-5	2.88	2.58	2.32
LTC1844ES5-3.3#TRMPBFTR-ND	150mA, Low Noise, VLDO™ Linear Regulator*	SOT-23-5	750.00/500		
LTC1844ES5-BYP#TRMCT-ND	150mA, Low Noise, VLDO™ Linear Regulator	SOT-23-5	2.88	2.58	2.32
LTC1844ES5-BYP#TRMPBFCT-ND	150mA, Low Noise, VLDO™ Linear Regulator*	SOT-23-5	2.88	2.58	2.32
LTC1844ES5-BYP#TRMPBFTR-ND	150mA, Low Noise, VLDO™ Linear Regulator*	SOT-23-5	750.00/500		
LTC1844ES5-SD#TRMPBFCT-ND	150mA, Low Noise, VLDO™ Linear Regulator*	SOT-23-5	2.88	2.58	2.32
LTC1844ES5-SD#TRMPBFTR-ND	150mA, Low Noise, VLDO™ Linear Regulator*	SOT-23-5	750.00/500		
LTC1871EMS#PBF-ND	Current Mode Boost, Flyback, SEPIC Controller*	10-MSOP	5.38	3.57	2.70
LTC1872BES6#TRMCT-ND	Constant Frequency, Current Mode Step-Up DC/DC Controller	SOT-23-6	4.42	3.95	3.56
LTC1872BES6#TRMTR-ND	Constant Frequency, Current Mode Step-Up DC/DC Controller	SOT-23-6	1025.00/500		
LTC1872BES6#TRMPBFCT-ND	Constant Frequency, Current Mode Step-Up DC/DC Controller*	SOT-23-6	4.42	3.95	3.56
LTC1872BES6#TRMPBFTR-ND	Constant Frequency, Current Mode Step-Up DC/DC Controller*	SOT-23-6	1025.00/500		

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1872ES6#TRMCT-ND	Constant Frequency, Current Mode Step-Up DC/DC Controller	SOT-23-6	4.42	3.95	3.56
LTC1872ES6#TRMPBFCT-ND	Constant Frequency, Current Mode Step-Up DC/DC Controller*	SOT-23-6	4.42	3.95	3.56
LTC1872ES6#TRMPBFTR-ND	Constant Frequency, Current Mode Step-Up DC/DC Controller*	SOT-23-6	1025.00/500		
LTC1872ES6TR-ND	Constant Frequency, Current Mode Step-Up DC/DC Controller	SOT-23-6	5125.00/2,500		
LTC1874EGN#PBF-ND	Dual Constant Frequency, Current Mode Step-Down DC/DC Controller*	16-SSOP	6.75	4.49	3.38
LTC1875EGN#PBF-ND	1.5A Monolithic Sync. Step-Down Regulator*	16-SSOP	7.00	4.65	3.57
LTC1877EMS8-ND	High Efficiency Mono. Sync. Step-Down Regulator	8-MSOP	6.13	4.07	3.07
LTC1877EMS8#PBF-ND	High Eff. Mono. Sync. Step-Down Regulator*	8-MSOP	6.13	4.07	3.07
LTC1878EMS8-ND	High Eff. Mono. Sync. Step-Down Regulator	8-MSOP	5.50	3.66	2.80
LTC1878EMS8#PBF-ND	High Eff. Mono. Sync. Step-Down Regulator*	8-MSOP	5.50	3.66	2.80
LTC1879EGN#PBF-ND	1.2A Synchronous Step-Down Regulator*	16-SSOP	7.20	4.79	3.67
LTC3400BES6#TRMCT-ND	600mA, 1.2MHz MPU Sync. Boost Converter	SOT-23-6	4.56	4.08	3.67
LTC3400BES6#TRMPBFCT-ND	600mA, 1.2MHz MPU Sync. Boost Converter*	SOT-23-6	4.56	4.08	3.67
LTC3400BES6#TRMPBFTR-ND	600mA, 1.2MHz MPU Sync. Boost Converter*	SOT-23-6	1195.00/500		
LTC3400ES6#TRMCT-ND	600mA, 1.2MHz MPU Sync. Boost Converter	SOT-23-6	4.56	4.08	3.67
LTC3400ES6#TRMPBFCT-ND	600mA, 1.2MHz MPU Sync. Boost Converter*	SOT-23-6	4.56	4.08	3.67
LTC3400ES6#TRMPBFTR-ND	600mA, 1.2MHz MPU Sync. Boost Converter*	SOT-23-6	1045.00/500		
LTC3401EMS-ND	1A, 3MHz, Sync. Boost Step-Up DC/DC Converter	10-MSOP	5.50	3.66	2.75
LTC3401EMS#PBF-ND	1A, 3MHz, Sync. Boost Step-Up DC/DC Converter*	10-MSOP	5.50	3.66	2.75
LTC3404EMS8#PBF-ND	1.4MHz, Monolithic Sync. Step-Down Regulator*	8-MSOP	5.75	3.82	2.88
LTC3405AES6#TRMCT-ND	1.5MHz, 300mA, Sync. Step-Down Regulator	SOT-23-6	3.84	3.43	3.09
LTC3405AES6#TRMTR-ND	1.5MHz, 300mA, Sync. Step-Down Regulator	SOT-23-6	1005.00/500		
LTC3405AES6#TRMPBFCT-ND	1.5MHz, 300mA, Sync. Step-Down Regulator*	SOT-23-6	3.84	3.43	3.09
LTC3405AES6#TRMPBFTR-ND	1.5MHz, 300mA, Sync. Step-Down Regulator*	SOT-23-6	1005.00/500		
LTC3405AES6-1.5#TRMCT-ND	1.5V, 1.5MHz, 300mA, Sync. Step-Down Reg.	SOT-23-6	3.84	3.43	3.09
LTC3405AES6-1.5#TRMPBFCT-ND	1.5V, 1.5MHz, 300mA, Sync. Step-Down Reg.*	SOT-23-6	3.84	3.43	3.09
LTC3405AES6-1.5#TRMPBFTR-ND	1.5V, 1.5MHz, 300mA, Sync. Step-Down Reg.*	SOT-23-6	1005.00/500		
LTC3405AES6-1.8#TRMCT-ND	1.8V, 1.5MHz, 300mA, Sync. Step-Down Reg.	SOT-23-6	3.84	3.43	3.09
LTC3405AES6-1.8#TRMPBFCT-ND	1.8V, 1.5MHz, 300mA, Sync. Step-Down Reg.*	SOT-23-6	3.84	3.43	3.09
LTC3405AES6-1.8#TRMPBFTR-ND	1.8V, 1.5MHz, 300mA, Sync. Step-Down Reg.*	SOT-23-6	1005.00/500		
LTC3405ES6#TRMCT-ND	1.5MHz, 300mA, High Efficiency Sync. Step-Down Regulator	SOT-23-6	3.84	3.43	3.09
LTC3405ES6#TRMPBFCT-ND	1.5MHz, 300mA, High Efficiency Sync. Step-Down Regulator*	SOT-23-6	3.84	3.43	3.09
LTC3405ES6#TRMPBFTR-ND	1.5MHz, 300mA, High Efficiency Sync. Step-Down Regulator*	SOT-23-6	870.00/500		
LTC3406ABES5#TRMPBFCT-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	4.20	3.75	3.38
LTC3406ABES5#TRMPBFTR-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	1100.00/500		
LTC3406AES5#TRMPBFCT-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	4.20	3.75	3.38
LTC3406AES5#TRMPBFTR-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	1100.00/500		
LTC3406BES5#TRMPBFCT-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	4.59	4.10	3.69
LTC3406BES5#TRMPBFTR-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	1200.00/500		
LTC3406BES5-1.5#TRMPBFCT-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	4.59	4.10	3.69
LTC3406BES5-1.5#TRMPBFTR-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	1200.00/500		
LTC3406BES5-1.8#TRMCT-ND	1.5MHz, 600mA, Sync. Step-Down Regulator	TSOT-23-5	4.59	4.10	3.69
LTC3406BES5-1.8#TRMTR-ND	1.5MHz, 600mA, Sync. Step-Down Regulator	TSOT-23-5	1200.00/500		
LTC3406BES5-1.8#TRMPBFCT-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	4.59	4.10	3.69
LTC3406BES5-1.8#TRMPBFTR-ND	1.5MHz, 600mA, Sync. Step-Down Regulator*	TSOT-23-5	1200.00/500		
LTC3406ES5#TRMCT-ND	Adj., 1.5MHz, 600mA, Sync. Step-Down Reg.	TSOT-23-5	4.59	4.10	3.69
LTC3406ES5#TRMTR-ND	Adj., 1.5MHz, 600mA, Sync. Step-Down Reg.	TSOT-23-5	1200.00/500		
LTC3406ES5#TRMPBFCT-ND	Adj., 1.5MHz, 600mA, Sync. Step-Down Reg.*	TSOT-23-5	4.59	4.10	3.69
LTC3406ES5#TRMPBFTR-ND	Adj., 1.5MHz, 600mA, Sync. Step-Down Reg.*	TSOT-23-5	1200.00/500		
LTC3406ES5-1.5#TRMCT-ND	1.5V, 1.5MHz, 600mA, Sync. Step-Down Reg.	TSOT-23-5	4.59	4.10	3.69
LTC3406ES5-1.5#TRMPBFCT-ND	1.5V, 1.5MHz, 600mA, Sync. Step-Down Reg.*	TSOT-23-5	4.59	4.10	3.69
LTC3406ES5-1.5#TRMPBFTR-ND	1.5V, 1.5MHz, 600mA, Sync. Step-Down Reg.*	TSOT-23-5	1200.00/500		
LTC3406ES5-1.8#TRMCT-ND	1.8V, 1.5MHz, 600mA, Sync. Step-Down Reg.	TSOT-23-5	4.59	4.10	3.69
LTC3406ES5-1.8#TRMTR-ND	1.8V, 1.5MHz, 600mA, Sync. Step-Down Reg.	TSOT-23-5	1200.00/500		
LTC3406ES5-1.8#TRMPBFCT-ND	1.8V, 1.5MHz, 600mA, Sync. Step-Down Reg.*	TSOT-23-5	4.59	4.10	3.69
LTC3406ES5-1.8#TRMPBFTR-ND	1.8V, 1.5MHz, 600mA, Sync. Step-Down Reg.*	TSOT-23-5	1200.00/500		
LTC3407AEDD#PBF-ND	Dual, 1.5MHz, 600mA, Sync. Step-Down DC/DC Regulator*	10-DFN	5.20	3.71	3.06
LTC3407AEMSE#PBF-ND	Dual, 1.5MHz, 600mA, Sync. Step-Down DC/DC Regulator*	10-MSOP	5.20	3.71	3.06
LTC3407IDD-2#PBF-ND	Dual, 2.25MHz, 800mA, Sync. Step-Down DC/DC Regulator*	10-DFN	6.78	4.84	3.99
LTC3407IMSE-2#PBF-ND	Dual, 2.25MHz, 800mA, Sync. Step-Down DC/DC Regulator*	10-MSOP	6.78	4.84	3.99
LTC3411EDD-ND	1.25A, 4MHz, Sync. Step-Down DC/DC Converter	10-DFN	6.40	4.25	3.26
LTC3411EDD#PBF-ND	1.25A, 4MHz, Sync. Step-Down DC/DC Converter*	10-DFN	6.40	4.25	3.26
LTC3412AEUF#PBF-ND	3A, 4MHz, Mono Sync. Step-Down Regulator*	16-QFN	6.88	4.93	4.06
LTC3412EFE#PBF-ND	3A, 4MHz, Mono Sync. Step-Down Regulator*	16-TSSOP	7.90	5.64	4.65
LTC3413EFE#PBF-ND	3A, 2MHz, Mono Sync. Step-Down Regulator*	16-TSSOP	7.90	5.72	4.67
LTC3414EFE-ND	4A, 4MHz, Mono. Sync. Step-Down Regulator	20-TSSOP	9.00	6.07	5.00
LTC3419EDD#PBF-ND	Dual Mono 600mA Sync. Step-Down Regulator*	8-DFN	3.90	2.79	2.29
LTC3419EMS#PBF-ND	Dual Mono 600mA Sync. Step-Down Regulator*	10-MSOP	3.90	2.79	2.29
LTC3423EMS-ND	1A, Low Output Voltage, 3MHz Micropower Sync. Boost DC/DC Converter	10-MSOP	5.50	3.66	2.75
LTC3424EMS-ND	2A, Low Output Voltage, 3MHz Micropower Sync. Boost DC/DC Converter	10-MSOP	7.13	4.74	3.57
LTC3426ES6#TRMPBFCT-ND	1.2MHz Step-Up DC/DC Converter*	TSOT-23-6	4.14	3.70	3.33
LTC3426ES6#TRMPBFTR-ND	1.2MHz Step-Up DC/DC Converter*	TSOT-23-6	980.00/500		
LTC3429ES6#TRMPBFCT-ND	600mA MPU Sync. Boost Converter*	TSOT-23-6	4.56	4.08	3.67
LTC3429ES6#TRMPBFTR-ND	600mA MPU Sync. Boost Converter*	TSOT-23-6	1090.00/500		
LTC3440EMS#PBF-ND	MPU Sync. Buck-Boost DC/DC Converter*	10-MSOP	5.83	3.87	2.92
LTC3442EDE#PBF-ND	MPU Sync. Buck-Boost DC/DC Converter*	12-DFN	8.00	5.32	4.21
LTC3443EDE#PBF-ND	MPU Sync. Buck-Boost DC/DC Converter*	12-DFN	7.10	4.72	3.78
LTC3448EDD-ND	1.5MHz/2.25MHz, 600mA Sync. Step-Down Reg.	8-DFN	4.10	2.93	2.41
LTC3458EDE-ND	1.4A, 1.5MHz Sync. Step-Up DC/DC Converter	12-DFN	6.60	4.39	3.52
LTC3458LEDE-ND	1.7A, 1.5MHz Sync. Step-Up DC/DC Converter	12-DFN	6.60	4.39	3.52
LTC3520EUF#PBF-ND	Sync.1A Buck Boost and 600mA Buck Converter*	24-QFN	7.00	5.00	4.12
LTC3522EUD#PBF-ND	Sync. 400mA Buck Boost and 200mA Buck Converter*	16-QFN	5.00	3.57	2.94
LTC3523EUD#PBF-ND	Sync. 600mA Step-Up and 400mA Step Down DC/DC Converter* ***NEW!***	16-DFN	6.28	4.22	3.58
LTC3525ESC6-3.3#TRMPBFCT-ND	400mA MPU Sync. Step-Up DC/DC Converter*	SC70-6	4.14	3.70	3.33
LTC3525ESC6-3.3#TRMPBFTR-ND	400mA MPU Sync. Step-Up DC/DC Converter*	SC70-6	1085.00/500		
LTC3525ESC6-5#TRMPBFCT-ND	400mA MPU Sync. Step-Up DC/DC Converter*	SC70-6	4.14	3.70	3.33
LTC3525ESC6-5#TRMPBFTR-ND	400mA MPU Sync. Step-Up DC/DC Converter*	SC70-6	1085.00/500		
LTC3533EDE#PBF-ND	2A Wide Input Voltage Sync. Buck Boost DC/DC Converter*	14-DFN	7.13	5.07	4.18
LTC3538EDCB#TRMPBFCT-ND	800mA Sync. Buck Boost DC/DC Converter*	8-DFN	5.82	5.20	4.68
LTC3538EDCB#TRMPBFTR-ND	800mA Sync. Buck Boost DC/DC Converter*	8-DFN	1525.00/500		
LTC3544BEUD#PBF-ND	Quad Sync. Step-Down Regulator*	16-QFN	5.90	4.21	3.47
LTC3544EUD#PBF-ND	Quad Sync. Step-Down Regulator*	16-QFN	5.90	4.21	3.47
LTC3562EUD#PBF-ND	Quad Sync. Step-Down DC/DC Regulator*	20-QFN	6.50	4.64	3.82
LTC3568EDD#PBF-ND	1.8A, 4MHz, Sync. Step-Down DC/DC Converter*	10-DFN	5.90	4.21	3.47
LTC3610EWP#PBF-ND	12A, 24V, Mono Sync. Step-Down DC/DC Converter*	64-QFN	17.00	12.14	10.00
LTC3672BEDC-1#TRMPBFCT-ND	Mono Fixed Out 400mA Buck Regulator*	8-DFN	4.45	3.98	3.58
LTC3672BEDC-1#TRMPBFTR-ND	Mono Fixed Out 400mA Buck Regulator*	8-DFN	1170.00/500		
LTC3700EMS-ND	Constant Frequency Step-Down DC/DC Controller with LDO Reg.	10-MSOP	4.63	3.30	2.72
LTC3701EGN-ND	2-Phase, Low Input Voltage Dual Step-Down DC/DC Controller	16-SSOP	7.00	4.65	3.50
LTC3701EGN#PBF-ND	2-Phase, Low Input Voltage Dual Step-Down DC/DC Controller*	16-SSOP	7.00	4.65	3.50
LTC3704EMS#PBF-ND	Wide Input Range, Positive to Negative DC/DC Controller*	10-MSOP	3.75	2.68	2.21
LTC3708EUH#PBF-ND	Fast 2-Phase, No RSENSE™ Buck Controller with Output Tracking*	32-QFN	9.63	6.40	5.11
LTC3713EG-ND	Low Input Voltage, High Power, Sync. DC/DC Controller	24-SSOP	8.38	5.57	4.19
LTC3713EG#PBF-ND	Low Input Voltage, HP, Sync. DC/DC Cont.*	24-SSOP	8.38	5.57	4.19
LTC3717EGN#PBF-ND	Wide Operating Range, Synchronous Step-Down Controller for DDR Memory Termination*	16-SSOP	6.13	4.07	3.07
LTC3717EUH-1-ND	Wide Operating Range, Synchronous Step-Down Controller for DDR Memory Termination	32-QFN	6.63	4.73	3.90
LTC3717EUH-1#PBF-ND	Wide Operating Range, Synchronous Step-Down Controller for DDR Memory Termination*	32-QFN	6.63	4.73	3.90
LTC3718EG-ND	Low Input Voltage, DC/DC Controller	24-SSOP	6.88	4.91	4.04
LTC3722EGN-2-ND	Sync. Dual Mode Phase Modulated Full Bridge Controller	24-SSOP	11.00	7.86	6.47
LTC3727EG-ND	2-Phase, High Efficiency Sync. Step-Down Switching Regulator	28-SSOP	10.25	6.93	5.71
LTC3727EG#PBF-ND	2-Phase, High Efficiency Sync. Step-Down Switching Regulator*	28-SSOP	10.25	6.93	5.71
LTC3727EUH-1#PBF-ND	2-Phase, High Efficiency Sync. Step-Down Switching Regulator*	32-QFN	10.88	7.23	5.94
LTC3728EG#PBF-ND	Dual, 550kHz, 2-Phase Sync. Step-Down Switching Regulator*	28-SSOP	10.25	6.81	5.13
LTC3728EUH-ND	Dual, 550kHz, 2-Phase Sync. Step-Down Switching Regulator	32-QFN	10.50	7.50	6.18
LTC3728EUH#PBF-ND	Dual, 550kHz, 2-Phase Sync. Step-Down Switching Regulator*	32-QFN	10.50	7.50	6.18
LTC3729EG-ND	550kHz, PolyPhase, High Eff, Sync.Step-Down Switching Regulator	28-SSOP	11.88	7.89	5.94
LTC3729EG#PBF-ND	550kHz, PolyPhase, High Efficiency, Sync. Step-Down Switching Regulator*	28-SSOP	11.88	7.89	5.94
LTC3729EUH-ND	550kHz, PolyPhase, High Efficiency, Sync. Step-Down Switching Regulator	32-QFN	12.13	8.66	7.13
LTC3729EUH#PBF-ND	550kHz, PolyPhase, High Efficiency, Sync. Step-Down Switching Regulator*	32-QFN	12.13	8.66	7.13
LTC3732CG-ND	3-Phase, 5-Bit VID, 600kHz, Sync. Buck Switching Regulator Controller	36-SSOP	8.75	5.81	4.63
LTC3732CG#PBF-ND	3-Phase, 5-Bit VID, 600kHz, Sync. Buck Switching Regulator Controller*	36-SSOP	8.75	5.81	4.63
LTC3778EF-ND	Wide Operating Range, Sync. Step-Down Controller	20-TSSOP	7.13	4.74	3.57
LTC3778EF#PBF-ND	Wide Operating Range, Sync. Step-Down Controller*	20-TSSOP	7.13	4.74	3.57
LTC3780EG#PBF-ND	High Eff., Sync. 4-Switch Buck Boost Controller*	24-SSOP	9.50	6.64	5.47
LTC3780EUH#PBF-ND	High Eff., Sync. 4-Switch Buck Boost Controller*	32-QFN	9.50	6.64	5.47
LTC3780IG#PBF-ND	High Eff., Sync. 4-Switch Buck Boost Controller*	24-SSOP	11.00	7.64	6.29
LTC3780IUH#PBF-ND	High Eff., Sync. 4-Switch Buck Boost Controller*	32-QFN	11.00	7.64	6.29
LTC3785EUF#PBF-ND	High Eff., Sync., No RSENSE™ Buck Boost Controller*	24-QFN	7.13	5.09	4.19
LTC3803ES6-5#TRMCT-ND	Constant Freq. Current Mode Flyback DC/DC Controller	TSOT-23-6	2.63	2.35	2.12
LTC3809EDD#PBF-ND	No RSENSE™, Low EMI, Sync. DC/DC Controller*	10-DFN	5.00	3.57	2.94
LTC3809EDD-1#PBF-ND	No RSENSE™, Low Input Voltage, Sync. DC/DC Controller*	10-DFN	5.00	3.57	2.94
LTC3809EMSE#PBF-ND	No RSENSE™, Low EMI, Sync. DC/DC Controller*	10-MSOP	5.00	3.57	2.94
LTC3809EMSE-1#PBF-ND	No RSENSE™, Low Input Volt., Sync. DC/DC Controller*	10-MSOP	5.00	3.57	2.94
LTC3810EG#PBF-ND	100V Current Mode Sync. Switching Regulator Controller*	28-SSOP	7.00	5.00	4.12
LTC3810EUH-5#PBF-ND	60V Current Mode Sync. Switching Regulator Controller*	32-QFN	6.75	4.83	3.98
LTC3811EG#PBF-ND	Dual Sync. Step-Down DC/DC Controller*	36-SSOP	7.50	5.36	4.41
LTC3811EUHF#PBF-ND	Dual Sync. Step-Down DC/DC Controller*	38-QFN	7.50	5.36	4.41
LTC3812EFE-5#PBF-ND	60V Current Mode Sync. Switching Regulator Controller*	16-TSSOP	6.50	4.64	3.82
LTC3813EG#PBF-ND	100V Current Mode Sync. Step-Up Controller*	28-SSOP	7.50	5.36	4.41
LTC3814EFE-5#PBF-ND	60V Current Mode Sync. Step-Up Controller*	16-TSSOP	7.00	5.00	4.12
LTC3826EG-1#PBF-ND	30µA IQ, Dual, 2-Phase Sync. Step-Down Controller*	32-QFN	10.75	7.69	6.33
LTC3826EUH#PBF-ND	30µA IQ, Dual, 2-Phase Sync. Step-Down Controller*	32-QFN	11.00	7.86	6.47

*** RoHS Compliant**

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC3827IG-1#PBF-ND	Low IQ, Dual, 2-Phase Sync. Step-Down Controller*	28-SSOP	11.75	8.64	7.12
LTC3830-1ES8-ND	HP Sync. Step-Down DC/DC Controller	8-SOIC	6.25	4.15	3.13
LTC3830-1ES8#PBF-ND	HP Sync. Step-Down DC/DC Controller*	8-SOIC	6.25	4.15	3.13
LTC3830EGN-ND	HP Sync. Step-Down DC/DC Controller	16-SSOP	7.75	5.15	3.88
LTC3830ES-ND	HP Sync. Step-Down DC/DC Controller	16-SOIC	7.13	4.74	3.57
LTC3830ES#PBF-ND	HP Sync. Step-Down DC/DC Controller*	16-SOIC	7.13	4.74	3.57
LTC3830ES8-ND	HP Sync. Step-Down DC/DC Controller	8-SOIC	6.25	4.15	3.13
LTC3831EGN-ND	HP Sync. Switching Regulator Controller	16-SSOP	6.00	3.99	3.00
LTC3832-1ES8-ND	HP Step-Down Sync. DC/DC Controller	8-SOIC	5.88	4.20	3.46
LTC3832-1ES8#PBF-ND	HP Step-Down Sync. DC/DC Controller*	8-SOIC	5.88	4.20	3.46
LTC3832EGN-ND	HP Step-Down Sync. DC/DC Controller	16-SSOP	6.25	4.46	3.68
LTC3832EGN#PBF-ND	HP Step-Down Sync. DC/DC Controller*	16-SSOP	6.25	4.46	3.68
LTC3835IGN-1#PBF-ND	Low IQ Sync. Step-Down Controller*	16-SSOP	8.25	6.00	4.94
LTC3850EGN#PBF-ND	Dual, 2-Phase Sync. Step-Down Switching Controller*	28-SSOP	4.88	3.43	2.82
LTC3850EUF#PBF-ND	Dual, 2-Phase Sync. Step-Down Switching Controller*	28-QFN	4.88	3.43	2.82
LTC3873EDDB#TRMPBFCT-ND	No RSENSE™ Constant Freq. Current Mode Boost/Flyback/ SEPIC DC/DC Controller*	8-DFN	2.91	2.60	2.34
LTC3873EDDB#TRMPBFTR-ND	No RSENSE™ Constant Freq. Current Mode Boost/Flyback/ SEPIC DC/DC Controller*	8-DFN	760.00/500		

Supervisors

Digi-Key Part No.	Description	Pkg.	1	25	100
LTC690CN8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-Dip	6.25	4.17	3.50
LTC690CS8-ND	MPU Supervisor Reset Circuit and WDT	8-SOIC	6.88	4.58	3.75
LTC690CS8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-SOIC	6.88	4.58	3.75
LTC691CN#PBF-ND	MPU Supervisor Reset Circuit and WDT*	16-Dip	6.88	4.58	3.80
LTC691CSW#PBF-ND	MPU Supervisor Reset Circuit and WDT*	16-SOIC	7.50	5.00	4.15
LTC692CN8-ND	MPU Supervisor Reset Circuit and WDT	8-Dip	6.25	4.17	3.50
LTC692CN8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-Dip	6.25	4.17	3.50
LTC692CS8-ND	MPU Supervisor Reset Circuit and WDT	8-SOIC	6.88	4.58	3.75
LTC692CS8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-SOIC	6.88	4.58	3.75
LTC693CSW-ND	MPU Supervisor Reset Circuit and WDT	16-SOIC	7.50	5.00	4.15
LTC694CN8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-Dip	6.25	4.17	3.50
LTC694CS8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-SOIC	6.88	4.58	3.75
LTC694CS8-3.3-ND	3.3V MPU Supervisor Reset Circuit and WDT	8-SOIC	7.50	5.00	4.20
LTC694CS8-3.3#PBF-ND	3.3V MPU Supervisor Reset Circuit and WDT*	8-SOIC	7.50	5.00	4.20
LTC695CN#PBF-ND	MPU Supervisor Reset Circuit and WDT*	16-Dip	6.88	4.58	3.80
LTC695CSW-ND	MPU Supervisor Reset Circuit and WDT	16-SOIC	7.50	5.00	4.15
LTC695CSW#PBF-ND	MPU Supervisor Reset Circuit and WDT*	16-SOIC	7.50	5.00	4.15
LTC695CSW-3.3-ND	3.3V MPU Supervisor Reset Circuit and WDT	16-SOIC	8.13	5.42	4.55
LTC695CSW-3.3#PBF-ND	3.3V MPU Supervisor Reset Circuit and WDT*	16-SOIC	8.13	5.42	4.55
LTC699CN8-ND	MPU Supervisor Reset Circuit and WDT	8-Dip	4.63	3.08	2.47
LTC699CN8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-Dip	4.63	3.08	2.47
LTC699CS8#PBF-ND	MPU Supervisor Reset Circuit and WDT*	8-SOIC	5.00	3.33	2.67
LTC1232CS8#PBF-ND	Microprocessor Supervisory Circuit with WDT*	8-SOIC	3.63	2.41	1.95
LTC1235CN-ND	MPU Supervisor Circuit with Battery Backup and WDT	16-Dip	6.88	4.60	3.80
LTC1235CN#PBF-ND	MPU Supervisor Circuit with Battery Backup and WDT*	16-Dip	6.88	4.60	3.80
LTC1235CSW#PBF-ND	MPU Supervisor Circuit with Battery Backup and WDT*	16-SOIC	7.50	5.00	4.15
LTC1326CMS8-ND	Micropower Precision Triple Supply Monitor	8-MSOP	4.63	3.08	2.45
LTC1326CMS8-2.5#PBF-ND	2.5V, MPU Precision Triple Supply Monitor*	8-MSOP	4.63	3.08	2.45
LTC1326CS8-ND	Micropower Precision Triple Supply Monitor	8-SOIC	4.38	2.91	2.35
LTC1326CS8#PBF-ND	Micropower Precision Triple Supply Monitor*	8-SOIC	4.38	2.91	2.35
LTC1326CS8-2.5-ND	2.5V, Micropower Precision Triple Supply Monitor	8-SOIC	4.38	2.91	2.35
LTC1326CS8-2.5#PBF-ND	2.5V, MPU Precision Triple Supply Monitor*	8-SOIC	4.38	2.91	2.35
LTC1536CMS8-ND	Triple Supply Monitor for PCI Applications	8-MSOP	5.88	3.91	3.35
LTC1536CS8-ND	Triple Supply Monitor for PCI Applications	8-SOIC	5.00	3.35	2.85
LTC1536CS8#PBF-ND	Triple Supply Monitor for PCI Applications*	8-SOIC	5.00	3.35	2.85
LTC1726EMS8-2.5#PBF-ND	2.5V Triple Supply Monitor*	8-MSOP	3.88	2.58	2.00
LTC1727EMS8-2.5#PBF-ND	2.5V Precision Triple Supply Monitor*	8-MSOP	3.88	2.58	2.00
LTC1728ES5-3.3#TRMPBFCT-ND	3.3V Precision Triple Supply Monitor*	SOT-23-5	3.44	3.08	2.77
LTC1728ES5-3.3#TRMPBFTR-ND	3.3V Precision Triple Supply Monitor*	SOT-23-5	775.00/500		
LTC2900-1CDD-ND	Programmable Quad Supply Monitor	10-DFN	4.13	2.74	2.20
LTC2900-1CDD#PBF-ND	Programmable Quad Supply Monitor*	10-DFN	4.13	2.74	2.20
LTC2900-1CMS-ND	Programmable Quad Supply Monitor	10-MSOP	3.63	2.41	2.00
LTC2900-1CMS#PBF-ND	Programmable Quad Supply Monitor*	10-MSOP	3.63	2.41	2.00
LTC2900-2CDD-ND	Programmable Quad Supply Monitor	10-DFN	4.13	2.74	2.20
LTC2900-2CMS#PBF-ND	Programmable Quad Supply Monitor*	10-MSOP	3.63	2.41	2.00
LTC2900-2IDD#PBF-ND	Programmable Quad Supply Monitor*	10-DFN	4.75	3.16	2.55
LTC2902-1CGN-ND	Programmable Quad Supply Monitor	16-SSOP	4.63	3.30	2.72
LTC2902-1CGN#PBF-ND	Programmable Quad Supply Monitor*	16-SSOP	4.63	3.30	2.72
LTC2902-2CGN-ND	Programmable Quad Supply Monitor	16-SSOP	4.63	3.30	2.72
LTC2902-2CGN#PBF-ND	Programmable Quad Supply Monitor*	16-SSOP	4.63	3.30	2.72
LTC2903CS6-A1#TRMPBFCT-ND	Adjustable Precision Quad Supply Monitor*	SOT-23-6	4.00	3.58	3.22
LTC2903CS6-A1#TRMPBFTR-ND	Adjustable Precision Quad Supply Monitor*	SOT-23-6	1050.00/500		
LTC2903CS6-B1#TRMCT-ND	Positive Precision Quad Supply Monitor	SOT-23-6	4.00	3.58	3.22
LTC2903CS6-B1#TRMPBFCT-ND	Positive Precision Quad Supply Monitor*	SOT-23-6	4.00	3.58	3.22
LTC2903CS6-B1#TRMPBFTR-ND	Positive Precision Quad Supply Monitor*	SOT-23-6	1050.00/500		
LTC2903CS6-C1#TRMCT-ND	Negative Precision Quad Supply Monitor	SOT-23-6	4.28	3.83	3.45
LTC2903CS6-D1#TRMPBFCT-ND	Adj. Precision Quad Supply Monitor*	SOT-23-6	4.00	3.58	3.22
LTC2903CS6-D1#TRMPBFTR-ND	Adj. Precision Quad Supply Monitor*	SOT-23-6	1050.00/500		
LTC2908IDDB-B1#TRMPBFCT-ND	Precision Six Input Supply Monitor*	8-DFN	6.55	5.85	5.27
LTC2917CMS-A1#PBF-ND	Single Supply Supervisor with Selectable Thresholds and Adj. Watchdog Timer*	10-MSOP	2.60	2.32	1.91
LTC2917CMS-B1#PBF-ND	Single Supply Supervisor with Selectable Thresholds and Adj. Watchdog Timer*	10-MSOP	2.60	2.32	1.91
LTC2917HMS-A1#PBF-ND	Single Supply Supervisor with Selectable Thresholds and Adj. Watchdog Timer*	10-MSOP	2.93	2.61	2.15
LTC2917HMS-B1#PBF-ND	Single Supply Supervisor with Selectable Thresholds and Adj. Watchdog Timer*	10-MSOP	2.93	2.61	2.15
LTC2917IMS-A1#PBF-ND	Single Supply Supervisor with Selectable Thresholds and Adj. Watchdog Timer*	10-MSOP	2.80	2.50	2.06
LTC2917IMS-B1#PBF-ND	Single Supply Supervisor with Selectable Thresholds and Adj. Watchdog Timer*	10-MSOP	2.80	2.50	2.06
LTC2918CMS-A1#PBF-ND	Single Supply Supervisor with Selectable Thresholds and Adj. Watchdog Timer*	10-MSOP	2.60	2.32	1.91
LTC2918CMS-B1#PBF-ND	Single Supply Supervisor with Selectable Thresholds and Adj. Watchdog Timer*	10-MSOP	2.60	2.32	1.91
LTC2918HMS-A1#PBF-ND	Single Supply Supervisor with Selectable Thresholds and Adj. Watchdog Timer*	10-MSOP	2.93	2.61	2.15
LTC2918HMS-B1#PBF-ND	Single Supply Supervisor with Selectable Thresholds and Adj. Watchdog Timer*	10-MSOP	2.93	2.61	2.15
LTC2918IMS-A1#PBF-ND	Single Supply Supervisor with Selectable Thresholds and Adj. Watchdog Timer*	10-MSOP	2.80	2.50	2.06
LTC2918IMS-B1#PBF-ND	Single Supply Supervisor with Selectable Thresholds and Adj. Watchdog Timer*	10-MSOP	2.80	2.50	2.06
LTC2919CMS-2.5#PBF-ND	Precision Triple/Dual Input UV, OV and Negative Voltage Monitor* ***NEW!***	10-MSOP	3.73	3.13	2.57
LTC2919HMS-2.5#PBF-ND	Precision Triple/Dual Input UV, OV and Negative Voltage Monitor* ***NEW!***	10-MSOP	4.70	3.95	3.25
LTC2919CMS-3.3#PBF-ND	Precision Triple/Dual Input UV, OV and Negative Voltage Monitor* ***NEW!***	10-MSOP	3.73	3.13	2.57
LTC2919HMS-3.3#PBF-ND	Precision Triple/Dual Input UV, OV and Negative Voltage Monitor* ***NEW!***	10-MSOP	4.70	3.95	3.25
LTC2919CMS-5#PBF-ND	Precision Triple/Dual Input UV, OV and Negative Voltage Monitor* ***NEW!***	10-MSOP	3.73	3.13	2.57
LTC2919HMS-5#PBF-ND	Precision Triple/Dual Input UV, OV and Negative Voltage Monitor* ***NEW!***	10-MSOP	4.70	3.95	3.25

Power Controllers

Digi-Key Part No.	Description	Pkg.	1	25	100
LT1248CN-ND	Power Factor Correction Controller	16-Dip	6.88	4.58	3.65
LT1248CN#PBF-ND	Power Factor Correction Controller*	16-Dip	6.88	4.58	3.65
LT1248CS#PBF-ND	Power Factor Correction Controller*	16-SOIC	7.38	4.92	3.90
LT1248IS#PBF-ND	Power Factor Correction Controller, Ind. Temp.*	16-SOIC	8.63	5.75	4.65
LT1249CN8-ND	Power Factor Correction Controller	8-Dip	6.25	4.17	3.30
LT1249CN8#PBF-ND	Power Factor Correction Controller*	8-Dip	6.25	4.17	3.30
LT1249CS8#PBF-ND	Power Factor Correction Controller*	8-SOIC	6.75	4.50	3.55
LT1249IN8#PBF-ND	Power Factor Correction Controller*	8-Dip	7.13	4.75	3.75
LT1249IS8#PBF-ND	Power Factor Correction Controller, Ind. Temp.*	8-SOIC	7.75	5.56	4.76
LT1508CSW-ND	Power Factor and PWM Controller	20-SOIC	7.88	5.25	4.50
LT1508ISW-ND	Power Factor and PWM Controller, Ind. Temp.	20-SOIC	8.75	5.85	5.00
LT3420EMS-ND	Photoflash Capacitor Charger with Auto Refresh	10-MSOP	5.00	3.57	2.94
LT3420EMS#PBF-ND	Photoflash Capacitor Charger w/Auto Refresh*	10-MSOP	5.00	3.57	2.94
LT3468ES5#TRMCT-ND	Photoflash Capacitance Charger	SOT-23-5	4.59	4.10	3.69
LT3468ES5#TRMTR-ND	Photoflash Capacitance Charger	SOT-23-5	1200.00/500		
LT3468ES5#TRMPBFCT-ND	Photoflash Capacitance Charger*	SOT-23-5	4.59	4.10	3.69
LT3468ES5#TRMPBFTR-ND	Photoflash Capacitance Charger*	SOT-23-5	1200.00/500		
LT3484EDCB-0#TRMPBFCT-ND	Photoflash Capacitor Charger*	6-DFN	5.04	4.50	4.05
LT3484EDCB-1#TRMPBFCT-ND	Photoflash Capacitor Charger*	6-DFN	5.04	4.50	4.05
LT3484EDCB-2#TRMPBFCT-ND	Photoflash Capacitor Charger*	6-DFN	5.04	4.50	4.05
LTC1473CGN#PBF-ND	Dual PowerPath™ Switch Driver*	16-SSOP	7.13	4.74	3.80
LTC1473LCGN-ND	Dual PowerPath™ Switch Driver	16-SSOP	7.13	4.74	3.80
LTC1473LCGN#PBF-ND	Dual PowerPath™ Switch Driver*	16-SSOP	7.13	4.74	3.80
LTC1479CG-ND	PowerPath™ Controller for Dual Battery Systems	36-SSOP	15.00	9.96	7.75
LTC1479CG#PBF-ND	PowerPath™ Controller for Dual Battery Systems*	36-SSOP	15.00	9.96	7.75
LTC1479IG-ND	PowerPath™ Controller for Dual Battery Systems	36-SSOP	17.25	11.46	8.63
LTC1479IG#PBF-ND	PowerPath™ Controller for Dual Battery Systems*	36-SSOP	17.25	11.46	8.63
LTC1696ES6#TRMCT-ND	Overvoltage Protection Controller	SOT-23-6	4.00	3.58	3.22
LTC1696ES6#TRMPBFCT-ND	Overvoltage Protection Controller*	SOT-23-6	4.00	3.58	3.22
LTC1696ES6#TRMPBFTR-ND	Overvoltage Protection Controller*	SOT-23-6	915.00/500		
LTC1921CMS8-ND	Dual -48V Supply and Fuse Monitor	8-MSOP	5.00	3.40	2.90
LTC1921CMS8#PBF-ND	Dual -48V Supply and Fuse Monitor*	8-MSOP	5.00	3.40	2.90
LTC1921CS8-ND	Dual -48V Supply and Fuse Monitor	8-SOIC	5.25	3.75	3.15
LTC1921IS8-ND	Dual -48V Supply and Fuse Monitor	8-SOIC	6.63	4.40	3.80
LTC1921IS8#PBF-ND	Dual -48V Supply and Fuse Monitor*	8-SOIC	6.63	4.40	3.80
LTC1966CMS8#PBF-ND	Precision Micropower RMS/DC Converter*	8-MSOP	5.88	3.91	3.60
LTC1968CMS8#PBF-ND	Precision Wide Bandwidth, RMS/DC Converter*	8-MSOP	7.90	5.25	4.80
LTC2920-1CS5#TRMCT-ND	Power Supply Margining Controller	SOT-23-5	3.02	2.70	2.43
LTC2920-1CS5#TRMPBFCT-ND	Power Supply Margining Controller*	SOT-23-5	3.02	2.70	2.43
LTC2920-2CMS8#PBF-ND	Dual, Power Supply Margining Controller*	8-MSOP	3.50	2.33	1.90
LTC2927CDDB#TRMPBFCT-ND	Single Power Supply Tracking Controller*	8-DFN	3.72	3.33	3.00
LTC2927CTS8#TRMPBFCT-ND	Single Power Supply Tracking Controller*	TSOT-23-8	3.72	3.33	3.00
LTC2927IDDB#TRMPBFCT-ND	Single Power Supply Tracking Controller*	8-DFN	4.40	3.93	3.54
LTC2927ITS8#TRMPBFCT-ND	Single Power Supply Tracking Controller*	TSOT-23-8	4.40	3.93	3.54
LTC2927ITS8#TRMPBFTR-ND	Single Power Supply Tracking Controller*	TSOT-23-8	1150.00/500		
LTC3731CUH#PBF-ND	3-Phase, 600kHz, Sync. Buck Switching Regulator Controller*	32-QFN	9.13	6.52	5.37
LTC4257CS8-ND	IEEE 802.3af PD PoE Interface Controller	8-SOIC	3.25	2.32	1.91
LTC4257CS8#PBF-ND	IEEE 802.3af PD PoE Interface Controller*	8-SOIC	3.25	2.32	1.91
LTC4257IS8#PBF-ND	Power Over Ethernet Interface Controller*	8-SOIC	3.75	2.68	2.21
LTC4257IDD-1#PBF-ND	Power Over Ethernet Interface Controller*	8-DFN	4.13	2.95	2.43
LTC4259ACGW#PBF-ND	Quad IEEE 802.3af PoE Controller*	36-SSOP	14.25	9.50	8.15
LTC4263CDE#PBF-ND	Single IEEE 803.2af Compliant PSE Controller*	14-DFN	5.90	4.21	3.47
LTC4263IDE#PBF-ND	Single IEEE 803.2af Compliant PSE Controller*	14-DFN	7.08	5.05	4.16
LTC4263CS#PBF-ND	Single IEEE 803.2af Compliant PSE Controller*	14-SOIC	5.90	4.21	3.47
LTC4263IS#PBF-ND	Single IEEE 803.2af Compliant PSE Controller*	14-SOIC	7.08	5.05	4.16
LTC4264CDE#PBF-ND	High Power PD Interface Controller with 750mA Current Limit*	12-DFN	3.60	2.57	2.12
LTC4267CDHC-3#PBF-ND	IEEE 802.3af PD PoE Interface*	16-DFN	4.38	2.92	2.50
LTC4267CGN-3#PBF-ND	IEEE 802.3af PD PoE Interface*	16-SSOP	4.13	2.75	2.36
LTC4267IDHC-3#PBF-ND	IEEE 802.3af PD PoE Interface*	16-DFN	5.25	3.50	3.00
LTC4267IGN-1#PBF-ND	IEEE 802.3af PD PoE Interface*	16-SSOP	5.00	3.33	2.86
LTC4267IGN-3#PBF-ND	IEEE 802.3af PD PoE Interface*	16-SSOP	5.00	3.33	2.86
LTC4267IGN#PBF-ND	IEEE 802.3af PD PoE Interface*	16-SSOP	5.00	3.33	2.86
LTC4268CDKD-1#PBF-ND	High Power PD Controller/Switching Reg.*	32-DFN	4.80	3.43	2.82
LTC4268IDKD-1#PBF-ND	High Power PD Controller/Switching Reg.*	32-DFN	5.75	4.11	3.39
LTC4355IDE#PBF-ND	Positive High Voltage Ideal Diode-OR Controller*	14-DFN	6.00	4.30	3.50
LTC4355IS#PBF-ND	Positive High Voltage Ideal Diode-OR Controller*	16-SOIC	6.00	4.30	3.50
LTC4357CDCB#TRMPBFCT-ND	Positive High Voltage Ideal Diode-OR Cont.*	6-DFN	3.50	2.43	2.00
LTC4357CDCB#TRMPBFTR-ND	Positive High Voltage Ideal Diode-OR Cont.*	6-DFN	1025.00/500		
LTC4357CMS8#PBF-ND	Positive High Volt. Ideal Diode-OR Cont.*	8-MSOP	3.40	2.43	2.00
LTC4357IDCB#TRMPBFCT-ND	Positive High Voltage Ideal Diode-OR Cont.*	6-DFN	4.68	4.18	3.76
LTC4357IDCB#TRMPBFTR-ND	Positive High Voltage Ideal Diode-OR Cont.*	6-DFN	1225.00/500		
LTC4357IMS8#PBF-ND	Positive High Volt. Ideal Diode-OR Cont.*	8-MSOP	4.08	2.91	2.40

***** RoHS Compliant**

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC4411ES5#TRMPBFCT-ND	2.6A Low Loss Ideal Diode*	TSOT-23-5	3.86	3.45	3.11
LTC4411ES5#TRMPBFTR-ND	2.6A Low Loss Ideal Diode*	TSOT-23-5	995.00/500		
LTC4412ES6#TRMCT-ND	Low Loss PowerPath™ Controller	TSOT-23-6	3.16	2.83	2.55
LTC4412ES6#TRMTR-ND	Low Loss PowerPath™ Controller	TSOT-23-6	820.00/500		
LTC4412ES6#TRMPBFCT-ND	Low Loss PowerPath™ Controller*	TSOT-23-6	3.16	2.83	2.55
LTC4412ES6#TRMPBFTR-ND	Low Loss PowerPath™ Controller*	TSOT-23-6	820.00/500		
LTC4412IS6#TRMPBFCT-ND	Low Loss PowerPath™ Controller*	TSOT-23-6	3.42	3.05	2.75
LTC4412IS6#TRMPBFTR-ND	Low Loss PowerPath™ Controller*	TSOT-23-6	885.00/500		

Charge Pump

Digi-Key Part No.	Description	Pkg.	1	25	100
LT1026CN8-ND	Switched Capacitor Voltage Converter	8-Dip	3.75	2.50	2.10
LT1026CN8#PBF-ND	Switched Capacitor Voltage Converter*	8-Dip	3.75	2.50	2.10
LT1026CS8#PBF-ND	Switched Capacitor Voltage Converter*	8-SOIC	4.25	2.83	2.30
LT1026IS8-ND	Switched Capacitor Voltage Converter	8-SOIC	5.38	3.57	2.90
LT1054CN8-ND	Switched Capacitor Voltage Converter with Reg.	8-Dip	4.88	3.25	2.80
LT1054CN8#PBF-ND	Switched Capacitor Voltage Converter with Reg.*	8-Dip	4.88	3.25	2.80
LT1054CSW#PBF-ND	Switched Capacitor Voltage Converter with Reg.*	16-SOIC	6.00	4.00	3.25
LT1054CS8-ND	Switched Capacitor Voltage Converter with Reg.	8-SOIC	6.00	3.99	3.00
LT1054CS8#PBF-ND	Switched Capacitor Voltage Converter with Reg.*	8-SOIC	6.00	3.99	3.00
LT1054IN8#PBF-ND	Switched Capacitor Voltage Converter with Regulator, Ind. Temp.*	8-Dip	7.13	4.75	3.95
LT1054ISW#PBF-ND	Switched Capacitor Voltage Converter with Regulator, Ind. Temp.*	16-SOIC	8.63	5.75	4.85
LT1054IS8-ND	Switched Capacitor Voltage Converter with Regulator, Ind. Temp.	8-SOIC	8.63	5.75	4.65
LT1054IS8#PBF-ND	Switched Capacitor Voltage Converter with Regulator, Ind. Temp.*	8-SOIC	8.63	5.75	4.65
LT1054LCS8-ND	Switched Capacitor Voltage Converter with Regulator, Ind. Temp.	8-SOIC	4.25	2.83	2.15
LT1054LCS8#PBF-ND	Switched Capacitor Voltage Converter with Regulator, Ind. Temp.*	8-SOIC	4.25	2.83	2.15
LT3465AES6#TRMCT-ND	2.4MHz White LED Step-Up Converter	SOT-23-6	3.36	3.00	2.70
LT3465AES6#TRMTR-ND	2.4MHz White LED Step-Up Converter	SOT-23-6	875.00/500		
LT3465AES6#TRMPBFCT-ND	2.4MHz White LED Step-Up Converter*	SOT-23-6	3.36	3.00	2.70
LT3465AES6#TRMPBFTR-ND	2.4MHz White LED Step-Up Converter*	SOT-23-6	875.00/500		
LT3465ES6#TRMPBFCT-ND	White LED Step-Up Converter*	SOT-23-6	3.36	3.00	2.70
LT3465ES6#TRMPBFTR-ND	White LED Step-Up Converter*	SOT-23-6	875.00/500		
LTC660CS8#PBF-ND	100mA, CMOS Switched Capacitor Converter*	8-SOIC	5.50	3.67	3.14
LTC1044CN8#PBF-ND	CMOS Switched-Capacitor Voltage Converter*	8-Dip	3.13	2.08	1.75
LTC1044CS8-ND	CMOS Switched-Capacitor Voltage Converter	8-SOIC	4.13	2.75	2.35
LTC1044CS8#PBF-ND	CMOS Switched-Capacitor Voltage Converter*	8-SOIC	4.13	2.75	2.35
LTC1046CN8-ND	50mA, CMOS Switched-Capacitor Volt. Converter	8-Dip	4.00	2.70	2.25
LTC1046CN8#PBF-ND	50mA, CMOS Switched-Capacitor Volt. Converter*	8-Dip	4.00	2.70	2.25
LTC1046CS8-ND	50mA, CMOS Switched-Capacitor Volt. Converter	8-SOIC	5.25	3.50	3.00
LTC1046CS8#PBF-ND	50mA, CMOS Switched-Capacitor Volt. Converter*	8-SOIC	5.25	3.50	3.00
LTC1046IS8#PBF-ND	50mA, CMOS Switched-Capacitor Volt. Converter*	8-SOIC	6.50	4.33	3.70
LTC1144CN8-ND	Switched-Capacitor Volt. Converter with Shutdown	8-Dip	4.50	3.00	2.50
LTC1144CN8#PBF-ND	Switched-Capacitor Volt. Converter with Shutdown*	8-Dip	4.50	3.00	2.50
LTC1144CS8#PBF-ND	Switched-Cap. Volt. Converter with Shutdown*	8-SOIC	4.63	3.10	2.55
LTC1144IS8-ND	Switched-Cap. Volt. Converter with Shutdown	8-SOIC	5.38	3.57	2.95
LTC1144IS8#PBF-ND	Switched-Cap. Volt. Converter with Shutdown*	8-SOIC	5.38	3.57	2.95
LTC1261CS-ND	Adj., Switched-Capacitor Voltage Inverter	14-SOIC	4.50	3.00	2.60
LTC1261CS#PBF-ND	Adj., Switched-Capacitor Voltage Inverter*	14-SOIC	4.50	3.00	2.60
LTC1261CS8-4-ND	4V, Switched-Capacitor Voltage Inverter	8-SOIC	3.75	2.49	1.90
LTC1261CS8-4#PBF-ND	4V, Switched-Capacitor Voltage Inverter*	8-SOIC	3.75	2.49	1.90
LTC1261LCMS8-ND	Adj., Switched-Capacitor Voltage Inverter	8-MSOP	4.00	2.66	2.00
LTC1261LCMS8#PBF-ND	Adj., Switched-Capacitor Voltage Inverter*	8-MSOP	4.00	2.66	2.00
LTC1261LCS8-ND	Adj., Switched-Capacitor Voltage Inverter	8-SOIC	3.63	2.41	1.82
LTC1261LCS8#PBF-ND	Adj., Switched-Capacitor Voltage Inverter*	8-SOIC	3.63	2.41	1.82
LTC1262CN8#PBF-ND	12V, 30mA, Flash Memory DC/DC Converter*	8-Dip	4.50	3.00	2.45
LTC1262CS8#PBF-ND	12V, 30mA, Flash Memory DC/DC Converter*	8-SOIC	4.63	3.08	2.32
LTC1262IS8-ND	12V, 30mA, Flash Memory DC/DC Converter	8-SOIC	5.75	3.82	2.88
LTC1262IS8#PBF-ND	12V, 30mA, Flash Memory DC/DC Converter*	8-SOIC	5.75	3.82	2.88
LTC1502CMS8-3.3-ND	Single Cell to 3.3V Reg. Charge Pump DC/DC Converter	8-MSOP	4.13	2.74	2.07
LTC1503CS8-1.8-ND	1.8V Inductorless Step-Down DC/DC Converter	8-SOIC	3.63	2.41	1.82
LTC1503CS8-1.8#PBF-ND	1.8V Inductorless Step-Down DC/DC Converter*	8-SOIC	3.63	2.41	1.82
LTC1503CS8-2-ND	2V Inductorless Step-Down DC/DC Converter	8-SOIC	3.63	2.41	1.82
LTC1514CS8-3.3-ND	3.3V, Step-Up/Down Switch-Capacitor DC/DC Converter	8-SOIC	6.50	4.35	3.70
LTC1514CS8-5-ND	5V, Step-Up/Down Switch-Capacitor DC/DC Converter	8-SOIC	6.50	4.35	3.70
LTC1514CS8-5#PBF-ND	5V, Step-Up/Down Switch-Capacitor DC/DC Converter*	8-SOIC	6.50	4.35	3.70
LTC1515IS8#PBF-ND	Step-Up/Down Switch-Capacitor DC/DC Converter*	8-SOIC	7.88	5.25	4.50
LTC1515IS8-3.3/5-ND	3.3V/5V, Step-Up/Down Switch-Capacitor DC/DC Converter	8-SOIC	7.88	5.25	4.50
LTC1515IS8-3/5-ND	3V/5V, Step-Up/Down Switch-Capacitor DC/DC Converter	8-SOIC	7.88	5.25	4.50
LTC1516CS8-ND	Regulated 5V Charge Pump DC/DC Converter	8-SOIC	6.25	4.15	3.55
LTC1516CS8#PBF-ND	Regulated 5V Charge Pump DC/DC Converter*	8-SOIC	6.25	4.15	3.55
LTC1517CS5-5#TRMCT-ND	Regulated 5V Charge Pump DC/DC Converter	SOT-23-5	4.42	3.95	3.56
LTC1517CS5-5#TRMPBFCT-ND	Regulated 5V Charge Pump DC/DC Converter*	SOT-23-5	4.42	3.95	3.56
LTC1517CS5-5#TRMPBFTR-ND	Regulated 5V Charge Pump DC/DC Converter*	SOT-23-5	1130.00/500		
LTC1517ES5-3.3#TRMCT-ND	Regulated 3.3V Charge Pump DC/DC Converter	SOT-23-5	4.70	4.20	3.78
LTC1517ES5-3.3#TRMPBFCT-ND	Regulated 3.3V Charge Pump DC/DC Converter*	SOT-23-5	4.70	4.20	3.78
LTC1517ES5-5#TRMCT-ND	Regulated 5V Charge Pump DC/DC Converter	SOT-23-5	4.70	4.20	3.78
LTC1517ES5-5#TRMPBFCT-ND	Regulated 5V Charge Pump DC/DC Converter*	SOT-23-5	4.70	4.20	3.78
LTC1517ES5-5#TRMPBFTR-ND	Regulated 5V Charge Pump DC/DC Converter*	SOT-23-5	1100.00/500		
LTC1522CMS8-ND	Regulated 5V Charge Pump DC/DC Converter	8-MSOP	3.75	2.50	2.15
LTC1522CMS8#PBF-ND	Regulated 5V Charge Pump DC/DC Converter*	8-MSOP	3.75	2.50	2.15
LTC1550CGN-ND	Switched Capacitor-Regulated Voltage Inverter	16-SSOP	5.25	3.49	2.80
LTC1550LCGN-ND	Switched Capacitor-Regulated Voltage Inverter	16-SSOP	4.00	2.66	2.00
LTC1550LCS8-ND	Switched Capacitor-Regulated Voltage Inverter	8-SOIC	3.63	2.41	1.82
LTC1682CS8-5-ND	5V, Doubler Charge Pump with Low Noise Linear Regulator	8-SOIC	3.50	2.33	1.80
LTC1682CS8-5#PBF-ND	5V, Doubler Charge Pump with Low Noise Linear Regulator*	8-SOIC	3.50	2.33	1.80
LTC1682IS8-5#PBF-ND	5V, Doubler Charge Pump with Low Noise Linear Regulator*	8-SOIC	4.13	2.74	2.15
LTC1751EMS8#PBF-ND	MPU Regulated Charge Pump DC/DC Converter*	8-MSOP	4.63	3.08	2.32
LTC1751EMS8-3.3-ND	MPU Regulated Charge Pump DC/DC Converter	8-MSOP	4.63	3.08	2.32
LTC1751EMS8-3.3#PBF-ND	MPU Regulated Charge Pump DC/DC Converter*	8-MSOP	4.63	3.08	2.32
LTC1751EMS8-5#PBF-ND	MPU Regulated Charge Pump DC/DC Converter*	8-MSOP	4.63	3.08	2.32
LTC1754ES6-5#TRMPBFCT-ND	MPU Regulated Charge Pump with Shutdown*	SOT-23-6	3.44	3.08	2.77
LTC1754ES6-5#TRMPBFTR-ND	MPU Regulated Charge Pump with Shutdown*	SOT-23-6	800.00/500		
LTC1911EMS8-1.5-ND	1.5V Low Noise Step-Down DC/DC Converter	8-MSOP	4.80	3.19	2.40
LTC1911EMS8-1.8-ND	1.8V Low Noise Step-Down DC/DC Converter	8-MSOP	4.80	3.19	2.40
LTC1911EMS8-1.8#PBF-ND	1.8V Low Noise Step-Down DC/DC Converter*	8-MSOP	4.80	3.19	2.40
LTC1983ES6-3#TRMPBFCT-ND	3V, 100mA Regulated Charge Pump Inverter*	SOT-23-6	4.26	3.80	3.42
LTC1983ES6-3#TRMPBFTR-ND	3V, 100mA Regulated Charge Pump Inverter*	SOT-23-6	945.00/500		
LTC1983ES6-5#TRMPBFCT-ND	5V, 100mA, Regulated Charge Pump Inverter*	SOT-23-6	4.26	3.80	3.42
LTC1983ES6-5#TRMPBFTR-ND	5V, 100mA, Regulated Charge Pump Inverter*	SOT-23-6	945.00/500		
LTC3200ES6-5#TRMPBFCT-ND	Low Noise, Regulated Charge Pump DC/DC Converter*	TSOT-23-6	3.75	3.35	3.02
LTC3200ES6-5#TRMPBFTR-ND	Low Noise, Regulated Charge Pump DC/DC Converter*	TSOT-23-6	935.00/500		
LTC3202EDD-ND	Low Noise, High Efficiency Charge Pump	10-DFN	4.10	2.93	2.41
LTC3202EDD#PBF-ND	Low Noise, High Efficiency Charge Pump*	10-DFN	4.10	2.93	2.41
LTC3202EMS-ND	Low Noise, High Efficiency Charge Pump	10-MSOP	3.75	2.49	1.94
LTC3204BEDC-3.3#TRMPBFCT-ND	3.3V, Low Noise Regulated Charge Pump*	6-DFN	3.70	3.30	2.97
LTC3204BEDC-3.3#TRMPBFTR-ND	3.3V, Low Noise Regulated Charge Pump*	6-DFN	880.00/500		
LTC3204BEDC-5#TRMPBFCT-ND	5V, Low Noise Regulated Charge Pump*	6-DFN	3.70	3.30	2.97
LTC3204BEDC-5#TRMPBFTR-ND	5V, Low Noise Regulated Charge Pump*	6-DFN	880.00/500		
LTC3214EDD#PBF-ND	500mA Camera LED Charge Pump*	10-DFN	3.30	2.36	1.94
LTC3215EDD#PBF-ND	700mA LN High Current LED Charge Pump*	10-DFN	3.50	2.50	2.06
LTC3250ES6-1.5#TRMCT-ND	1.5V, High Efficiency, Low Noise, Inductorless, Step-Down DC/DC Converter	SOT-23-6	3.44	3.08	2.77
LTC3250ES6-1.5#TRMPBFCT-ND	1.5V, High Efficiency, Low Noise, Inductorless, Step-Down DC/DC Converter*	SOT-23-6	3.44	3.08	2.77
LTC3251EMSE-ND	High Efficiency, Low Noise, Inductorless, Step-Down DC/DC Converter	10-MSOP	3.90	2.79	2.29
LTC3251EMSE#PBF-ND	High Efficiency, Low Noise, Inductorless, Step-Down DC/DC Converter*	10-MSOP	3.90	2.79	2.29

CPU Core Power

Digi-Key Part No.	Description	Pkg.	1	25	100
LTC1705EGN-ND	Dual 5-Bit, Sync. Switching Regulator Controller	28-SSOP	11.25	7.47	5.63
LTC1705EGN#PBF-ND	Dual 5-Bit, Sync. Switching Reg. Controller*	28-SSOP	11.25	7.47	5.63
LTC1706EMS-85-ND	VID Voltage Programmer for Intel VRM 8.5	10-MSOP	4.25	2.83	2.15
LTC1709EG-7-ND	5-Bit, 2-Phase, Sync., Step-Down Switching Reg.	36-SSOP	9.75	6.48	5.00
LTC1709EG-85-ND	5-Bit, 2-Phase, Sync., Step-Down Switching Reg.	36-SSOP	9.75	6.48	5.00
LTC1753CG-ND	5-Bit, Programmable Synchronous Switching Regulator Controller for Pentium II Processor	20-SSOP	6.50	4.32	3.25
LTC1753CG#PBF-ND	5-Bit, Programmable Synchronous Switching Regulator Controller for Pentium II Processor*	20-SSOP	6.50	4.32	3.25
LTC1753CSW-ND	5-Bit, Programmable Synchronous Switching Regulator Controller for Pentium II Processor	20-SOIC	6.00	3.99	3.00
LTC1909-8EG-ND	Step-Down DC/DC Regulator Controller	28-SSOP	10.38	6.89	5.19
LTC3703EG#PBF-ND	Step-Down DC/DC Regulator Controller*	28-SSOP	7.00	4.65	3.62
LTC3703EGN#PBF-ND	100V Sync. Switching Regulator Controller*	16-SSOP	6.38	4.24	3.30
LTC3714EG#PBF-ND	Intel Compatible, Wide Operating Range, Step-Down Controller with Internal Op Amp*	28-SSOP	6.50	4.32	3.25
LTC3720EGN#PBF-ND	1-Phase VRM8.5 Current Mode Step-Down Controller*	28-SSOP	6.50	4.64	3.82
LTC3733CG-ND	3-Phase, Buck Controller for AMD CPU's	36-SSOP	8.75	6.25	5.15
LTC3733CG#PBF-ND	3-Phase, Buck Controller for AMD CPU's*	36-SSOP	8.75	6.25	5.15

LED Drivers

Digi-Key Part No.	Description	Pkg.	1	25	100
LT3478IFE#PBF-ND	4.5A Mono LED Driver with True Color PWM Dimming*	16-TSSOP	8.65	6.17	5.08
LT3478IFE-1#PBF-ND	4.5A Mono LED Driver with True Color PWM Dimming*	16-TSSOP	8.65	6.17	5.08
LT3496IUFD#PBF-ND	Triple Output LED Driver*	28-QFN	8.40	6.00	4.94
LT3498EDDB#TRMPBFCT-ND	20mA LED Driver and OLED Driver*	12-DFN	4.48	4.00	3.60
LT3498EDDB#TRMPBFTR-ND	20mA LED Driver and OLED Driver*	12-DFN	1170.00/500		
LT3518EUF#PBF-ND	2.3A, LED Driver*	16-QFN	5.90	4.21	3.47
LT3518IUF#PBF-ND	2.3A, LED Driver*	16-QFN	7.08	5.06	4.17
LT3591EDDB#TRMPBFCT-ND	White LED Driver with Integrated Schottky*	8-DFN	3.25	2.90	2.61
LT3591EDDB#TRMPBFTR-ND	White LED Driver with Integrated Schottky*	8-DFN	850.00/500		
LT3595EUHH#PBF-ND	16-Channel Buck Mode LED Driver*	56-QFN	14.25	9.93	8.17
LTC3230EUD#PBF-ND	5-LED Display Driver with Dual LDO*	20-QFN	3.10	2.21	1.82

Battery Chargers

Digi-Key Part No.	Description	Pkg.	1	25	100
LT1505CG-1#PBF-ND	Constant-Current/Volt., High Efficiency Battery Charger*	28-SSOP	9.38	6.23	4.90
LT1510-5CGN#PBF-ND	500kHz, 1.5A Constant Voltage/Current Battery Charger*	16-SSOP	8.13	5.40	4.35
LT1510CGN-ND	200kHz, 1.5A Constant Voltage/Current Battery Charger	16-SSOP	8.13	5.40	4.35
LT1510CGN#PBF-ND	200kHz, 1.5A Constant Voltage/Current Battery Charger*	16-SSOP	8.13	5.40	4.35
LT1510CN-ND	200kHz, 1.5A Constant Voltage/Current Battery Charger	16-Dip	7.50	4.98	4.00
LT1510CN#PBF-ND	200kHz, 1.5A Constant Voltage/Current Battery Charger*	16-Dip	7.50	4.98	4.00
LT1510CS-ND	200kHz, 1.5A Constant Voltage/Current Battery Charger	16-SOIC	7.88	5.23	4.20
LT1510CS#PBF-ND	200kHz, 1.5A Constant Voltage/Current Battery Charger*	16-SOIC	7.88	5.23	4.20
LT1510CS8#PBF-ND	200kHz, 1.5A Constant Voltage/Current Battery Charger*	8-SOIC	6.00	3.99	3.20
LT1510IS#PBF-ND	200kHz, 1.5A Constant Voltage/Current Battery Charger*	16-SOIC	9.00	5.98	4.80
LT1510IS8-ND	200kHz, 1.5A Constant Voltage/Current Battery Charger	8-SOIC	6.88	4.57	3.65
LT1511CSW#PBF-ND	3A Constant Current/Voltage Battery Charger*	24-SOIC	13.00	8.64	6.95
LT1511ISW-ND	3A Constant Current/Voltage Battery Charger, Ind. Temp.	24-SOIC	15.00	10.00	8.60
LT1512CGN-ND	1.5A, SEPIC Constant Current/Voltage Battery Charger	16-SSOP	8.00	5.32	4.60
LT1512CN8#PBF-ND	1.5A, SEPIC Constant Current/Voltage Battery Charger*	8-Dip	6.75	4.50	3.85

***RoHS Compliant** *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1512CS8#PBF-ND	1.5A, SEPIC Constant Current/Voltage Battery Charger★	8-SOIC	7.00	4.65	4.00
LT1513-2CR-ND	SEPIC Constant or Programmable Current/Constant Voltage Battery Charger	7-DD	9.38	6.23	4.70
LT1513-2CR#PBF-ND	SEPIC Constant or Programmable Current/Constant Voltage Battery Charger★	7-DD	9.38	6.23	4.70
LT1513-2CT7#PBF-ND	SEPIC Constant or Programmable Current/Constant Voltage Battery Charger★	TO-220-7	9.00	5.98	4.55
LT1513CR#PBF-ND	SEPIC Constant or Programmable Current/Constant Voltage Battery Charger★	7-DD	9.38	6.23	4.70
LT1513IR#PBF-ND	SEPIC Constant or Programmable Current/Constant Voltage Battery Charger, Ind. Temp.★	7-DD	10.25	6.81	5.20
LT1571EGN-5#PBF-ND	Constant-Current/Voltage Battery Charger★	16-SSOP	8.00	5.32	4.20
LT1769CGN-ND	Constant-Current/Voltage 2A Battery Charger	28-SSOP	10.13	6.73	5.10
LT1769CGN#PBF-ND	Constant-Current/Voltage 2A Battery Charger★	28-SSOP	10.13	6.73	5.10
LT1769IFE-ND	Constant-Current/Voltage 2A Battery Charger	20-TSSOP	11.50	7.64	5.75
LTC1325CSW-ND	Battery Management System	18-SOIC	13.75	9.15	7.35
LTC1325CSW#PBF-ND	Battery Management System★	18-SOIC	13.75	9.15	7.35
LTC1558CGN-3.3-ND	3.3V, Backup Battery Controller with Programmable Output	16-SSOP	5.25	3.49	2.80
LTC1558CGN-5-ND	5V, Backup Battery Controller with Programmable Output	16-SSOP	5.25	3.49	2.80
LTC1558CS-3.3-ND	3.3V, Backup Battery Controller with Programmable Output	16-SOIC	5.00	3.32	2.65
LTC1558CS-5-ND	5V, Backup Battery Controller with Programmable Output	16-SOIC	5.00	3.32	2.65
LTC1558CS8-3.3-ND	3.3V, Backup Battery Controller with Programmable Output	8-SOIC	4.75	3.16	2.55
LTC1558CS8-5-ND	5V, Backup Battery Controller with Programmable Output	8-SOIC	4.75	3.16	2.55
LTC1559CGN-3.3-ND	3.3V, Backup Battery Controller with Fixed Output	16-SSOP	5.25	3.49	2.80
LTC1559CGN-5-ND	5V, Backup Battery Controller with Fixed Output	16-SSOP	5.25	3.49	2.80
LTC1559CS8-5-ND	5V, Backup Battery Controller with Fixed Output	8-SOIC	4.75	3.16	2.55
LTC1730ES8-4.2-ND	4.2V Li-Ion Battery Pulse Charger	8-SOIC	3.88	2.58	1.94
LTC1730ES8-4.2#PBF-ND	4.2V Li-Ion Battery Pulse Charger★	8-SOIC	3.88	2.58	1.94
LTC1731EMS8-8.2-ND	8.2V Li-Ion Linear Battery Charger Controller	8-MSOP	3.63	2.41	1.90
LTC1731EMS8-8.2#PBF-ND	8.2V Li-Ion Linear Battery Charger Controller★	8-MSOP	3.63	2.41	1.90
LTC1731EMS8-8.4-ND	8.4V Li-Ion Linear Battery Charger Controller	8-MSOP	3.63	2.41	1.90
LTC1731EMS8-8.4#PBF-ND	8.4V Li-Ion Linear Battery Charger Controller★	8-MSOP	3.63	2.41	1.90
LTC1731ES8-8.2-ND	8.2V Li-Ion Linear Battery Charger Controller	8-SOIC	3.25	2.16	1.65
LTC1731ES8-8.4-ND	8.4V Li-Ion Linear Battery Charger Controller	8-SOIC	3.25	2.16	1.65
LTC1731ES8-8.4#PBF-ND	8.4V Li-Ion Linear Battery Charger Controller★	8-SOIC	3.25	2.16	1.65
LTC1732EMS-8.4-ND	Li-Ion Linear Battery Charger Controller	10-MSOP	4.63	3.08	2.32
LTC1732EMS-8.4#PBF-ND	Li-Ion Linear Battery Charger Controller★	10-MSOP	4.63	3.08	2.32
LTC1733EMSE#PBF-ND	Mono Linear Lithium-Ion Battery Charger★	10-MSOP	3.63	2.41	1.89
LTC1734ES6-4.2#TRMCT-ND	4.2V Li-Ion Linear Battery Charger Controller	SOT-23-6	3.33	2.98	2.68
LTC1734ES6-4.2#TRMPBFCT-ND	4.2V Li-Ion Linear Battery Charger Controller★	SOT-23-6	3.33	2.98	2.68
LTC1734ES6-4.2#TRMPBFTR-ND	4.2V Li-Ion Linear Battery Charger Controller★	SOT-23-6	745.00/500		
LTC1734LES6-4.2#TRMCT-ND	4.2V Li-Ion Linear Battery Charger Controller	SOT-23	3.30	2.95	2.66
LTC1734LES6-4.2#TRMPBFCT-ND	4.2V Li-Ion Linear Battery Charger Controller★	SOT-23	3.30	2.95	2.66
LTC1734LES6-4.2#TRMPBFTR-ND	4.2V Li-Ion Linear Battery Charger Controller★	SOT-23	865.00/500		
LTC1759CG-ND	Smart Battery Charger	36-SSOP	11.50	7.64	5.75
LTC1759CG#PBF-ND	Smart Battery Charger★	36-SSOP	11.50	7.64	5.75
LTC1760CFW-ND	Dual Smart Battery System Manager	48-TSSOP	15.90	11.36	9.35
LTC1760CFW#PBF-ND	Dual Smart Battery System Manager★	48-TSSOP	15.90	11.36	9.35
LTC1960CG#PBF-ND	Dual Battery Charger/Selector with SPI Interface★	36-SSOP	14.75	9.80	7.38
LTC3555EUFD#PBF-ND	Highly Integrated Power Management and Battery Charger for Li-Ion/Polymer★	28-QFN	9.88	7.09	5.84
LTC3556EUFD#PBF-ND	High Efficiency USB Power Manager with Dual Buck and Buck Boost DC/DC★ ***NEW!***	28-QFN	10.20	6.86	5.65
LTC3559EUD#PBF-ND	Linear USB Battery Charger★	16-QFN	4.30	3.07	2.53
LTC4007EGN-ND	4A, High Eff., Standalone Li Battery Charger	24-SSOP	7.63	5.45	4.49
LTC4007EGN#PBF-ND	4A, High Eff., Standalone Li Battery Charger★	24-SSOP	7.63	5.45	4.49
LTC4008EGN-ND	4A, High Eff., Multi-Chemistry Battery Charger	20-SSOP	7.38	5.27	4.34
LTC4008EGN#PBF-ND	4A, High Eff., Multi-Chemistry Battery Charger★	20-SSOP	7.38	5.27	4.34
LTC4008EGN-1-ND	4A, High Eff., Multi-Chemistry Battery Charger	20-SSOP	7.38	5.27	4.34
LTC4008EGN-1#PBF-ND	4A, High Eff., Multi-Chemistry Battery Charger★	20-SSOP	7.38	5.27	4.34
LTC4011CFE#PBF-ND	High Eff. Standalone Nickel Battery Charger★	20-TSSOP	10.00	6.64	5.41
LTC4050EMS-4.1-ND	4.1V Li-Ion Battery Charger Controller	10-MSOP	4.75	3.16	2.38
LTC4050EMS-4.2-ND	4.2V Li-Ion Battery Charger Controller	10-MSOP	4.75	3.16	2.38
LTC4052EMS8E-4.2-ND	Lithium-Ion Battery Pulse Charger with Over-Current	8-MSOP	3.75	2.68	2.21
LTC4052EMS8E-4.2#PBF-ND	Lithium-Ion Battery Pulse Charger with Over-Current★	8-MSOP	3.75	2.68	2.21
LTC4053EMSE-4.2-ND	USB Lithium-Ion Battery Charger with Thermal Regulation	10-MSOP	3.75	2.68	2.21
LTC4053EMSE-4.2#PBF-ND	USB Lithium-Ion Battery Charger with Thermal Regulation★	10-MSOP	3.75	2.68	2.21
LTC4060EFE#PBF-ND	Standalone Linear NiMH/NiCd Battery Charger★	16-TSSOP	7.38	4.90	3.94
LTC4065AEDC#TRMPBFCT-ND	Standalone 750mA Li-Ion Battery Charger★	6-DFN	2.77	2.48	2.23
LTC4065AEDC#TRMPBFTR-ND	Standalone 750mA Li-Ion Battery Charger★	6-DFN	680.00/500		
LTC4065EDC#TRMPBFCT-ND	Standalone 750mA Li-Ion Battery Charger★	6-DFN	2.77	2.48	2.23
LTC4065EDC#TRMPBFTR-ND	Standalone 750mA Li-Ion Battery Charger★	6-DFN	680.00/500		
LTC4068EDD-4.2#PBF-ND	4.2V, Standalone Linear Li-Ion Battery Charger★	8-DFN	3.38	2.41	1.99
LTC4068XEDD-4.2#PBF-ND	4.2V, Standalone Linear Li-Ion Battery Charger★	8-DFN	3.38	2.41	1.99
LTC4075EDD#PBF-ND	Dual In USB/AC Adapter Standalone Li-Ion Battery Charger★	10-DFN	3.75	2.67	2.21
LTC4076EDD#PBF-ND	Dual Input Standalone Li-Ion Battery Charger★	10-DFN	3.75	2.67	2.21
LTC4077EDD#PBF-ND	Dual Input Standalone Li-Ion Battery Charger★	10-DFN	3.75	2.67	2.21
LTC4080EMSE#PBF-ND	500mA Standalone Li-Ion Battery Charger★	10-MSOP	3.80	2.71	2.24
LTC4088EDE#PBF-ND	High Eff. Battery Charger/USB Power Manager★	14-DFN	4.40	3.14	2.59
LTC4090EDJC#PBF-ND	USB Power Manager Plus High Voltage Li-Ion/Polymer Battery Charger★	22-DFN	6.50	4.64	3.82
LTC4095EDC#TRMPBFCT-ND	Standalone USB Li-Ion/Polymer Battery Charger★	8-DFN	2.91	2.60	2.34
LTC4095EDC#TRMPBFTR-ND	Standalone USB Li-Ion/Polymer Battery Charger★	8-DFN	695.00/500		
LTC4097EDDB#TRMPBFCT-ND	USB/Wall Adapter Standalone Li-Ion/Polymer Battery Charger★	12-DFN	3.61	3.23	2.91
LTC4097EDDB#TRMPBFTR-ND	USB/Wall Adapter Standalone Li-Ion/Polymer Battery Charger★	12-DFN	945.00/500		
LTC4098EPDC#PBF-ND	USB Compatible Switching Power Manager/Li-Ion/Polymer Battery Charger★	20-UTQFN	5.33	3.57	3.04
LTC4100EG-ND	Smart Battery Charger Controller	24-SSOP	10.63	7.06	5.32
LTC4100EG#PBF-ND	Smart Battery Charger Controller★	24-SSOP	10.63	7.06	5.32
LTC4150CMS#PBF-ND	Coulomb Counter/Battery Gas Gauge★	10-MSOP	3.00	2.00	1.70

Hot Swap

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1640AHCN8-ND	Negative Voltage Hot Swap Controller	8-Dip	3.88	2.58	2.05
LT1640ALCS8#PBF-ND	Negative Voltage Hot Swap Controller★	8-SOIC	4.00	2.66	2.10
LT1640LCS8-ND	Negative Voltage Hot Swap Controller	8-SOIC	4.00	2.66	2.10
LT1640LCS8#PBF-ND	Negative Voltage Hot Swap Controller★	8-SOIC	4.00	2.66	2.10
LT1640LIS8-ND	Negative Voltage Hot Swap Controller, Ind. Temp.	8-SOIC	4.50	2.99	2.35
LT1640LIS8#PBF-ND	Negative Voltage Hot Swap Controller, Industrial Temperature★	8-SOIC	4.50	2.99	2.35
LT1641-1CS8#PBF-ND	Positive High Voltage Hot Swap Controller★	8-SOIC	5.00	3.32	2.50
LT1641-1IS8#PBF-ND	Positive High Voltage Hot Swap Controller★	8-SOIC	5.50	3.66	2.75
LT1641-2CS8-ND	Positive High Voltage Hot Swap Controller	8-SOIC	5.00	3.32	2.50
LT1641-2CS8#PBF-ND	Positive High Voltage Hot Swap Controller★	8-SOIC	5.00	3.32	2.50
LT4220CGN#PBF-ND	Dual Supply Hot Swap Controller★	16-SSOP	7.00	5.00	4.12
LT4250HCN8-ND	Negative 48V Hot Swap Controller	8-Dip	4.75	3.16	2.50
LT4250HCS8-ND	Negative 48V Hot Swap Controller	8-SOIC	4.88	3.24	2.55
LT4250HCS8#PBF-ND	Negative 48V Hot Swap Controller★	8-SOIC	4.88	3.24	2.55
LT4250LCN8-ND	Negative 48V Hot Swap Controller	8-Dip	4.75	3.16	2.50
LT4250LCN8#PBF-ND	Negative 48V Hot Swap Controller★	8-Dip	4.75	3.16	2.50
LT4250LCS8-ND	Negative 48V Hot Swap Controller	8-SOIC	4.88	3.24	2.55
LT4250LCS8#PBF-ND	Negative 48V Hot Swap Controller★	8-SOIC	4.88	3.24	2.55
LT4254CGN-ND	Positive High Voltage Hot Swap Controller	16-SSOP	3.88	2.58	2.10
LT4254CGN#PBF-ND	Positive High Voltage Hot Swap Controller★	16-SSOP	3.88	2.58	2.10
LT4356CDE-1#PBF-ND	Overvoltage Protection Regulator★	12-DFN	3.95	2.83	2.33
LT4356CMS-1#PBF-ND	Overvoltage Protection Regulator★	10-MSOP	3.95	2.83	2.33
LT4356HDE-1#PBF-ND	Overvoltage Protection Regulator★	12-DFN	5.18	3.70	3.05
LT4356HMS-1#PBF-ND	Overvoltage Protection Regulator★	10-MSOP	5.18	3.70	3.05
LT4356IDE-1#PBF-ND	Overvoltage Protection Regulator★	12-DFN	4.75	3.39	2.80
LT4356IMS-1#PBF-ND	Overvoltage Protection Regulator★	10-MSOP	4.75	3.39	2.80
LTC1421CG-2.5#PBF-ND	2.5V Hot Swap Controller★	24-SSOP	10.38	6.90	5.90
LTC1421CSW-ND	Hot Swap Controller	24-SOIC	9.63	6.40	5.50
LTC1421CSW-2.5-ND	2.5V Hot Swap Controller	24-SOIC	9.63	6.40	5.50
LTC1421CSW-2.5#PBF-ND	2.5V Hot Swap Controller★	24-SOIC	9.63	6.40	5.50
LTC1422CN8-ND	8-Pin Hot Swap Controller	8-Dip	5.13	3.41	2.65
LTC1422CS8#PBF-ND	8-Pin Hot Swap Controller★	8-SOIC	5.25	3.50	2.95
LTC1422IN8-ND	8-Pin Hot Swap Controller	8-Dip	5.88	3.91	3.05
LTC1422IS8-ND	8-Pin Hot Swap Controller	8-SOIC	6.00	4.00	3.40
LTC1422IS8#PBF-ND	8-Pin Hot Swap Controller★	8-SOIC	6.00	4.00	3.40
LTC1642CGN#PBF-ND	Adjustable Hot Swap Controller★	16-SSOP	7.25	4.82	3.70
LTC1643ALCGN#PBF-ND	PCI-Bus Hot Swap Controller★	16-SSOP	8.75	5.81	4.55
LTC1644CGN#PBF-ND	CompactPCI-Bus Hot Swap Controller★	20-SSOP	7.38	4.90	3.95
LTC1646CGN-ND	CompactPCI Dual Hot Swap Controller	16-SSOP	7.00	4.65	3.75
LTC1646CGN#PBF-ND	CompactPCI Dual Hot Swap Controller★	16-SSOP	7.00	4.65	3.75
LTC1646IGN-ND	CompactPCI Dual Hot Swap Controller	16-SSOP	8.00	5.35	4.25
LTC4210-1CS6#TRMPBFCT-ND	Hot Swap Controller★	SOT-23-6	3.86	3.45	3.11
LTC4210-1CS6#TRMPBFTR-ND	Hot Swap Controller★	SOT-23-6	925.00/500		
LTC4210-1IS6#TRMPBFCT-ND	Hot Swap Controller★	SOT-23-6	4.42	3.95	3.56
LTC4210-1IS6#TRMPBFTR-ND	Hot Swap Controller★	SOT-23-6	1160.00/500		
LTC4210-2CS6#TRMCT-ND	Hot Swap Controller	SOT-23-6	3.86	3.45	3.11
LTC4210-2CS6#TRMPBFCT-ND	Hot Swap Controller★	SOT-23-6	3.86	3.45	3.11
LTC4210-2CS6#TRMPBFTR-ND	Hot Swap Controller★	SOT-23-6	1010.00/500		
LTC4210-2IS6#TRMPBFCT-ND	Hot Swap Controller★	SOT-23-6	4.42	3.95	3.56
LTC4210-2IS6#TRMPBFTR-ND	Hot Swap Controller★	SOT-23-6	1160.00/500		
LTC4211CMS8#PBF-ND	Hot Swap Controller★	8-MSOP	4.25	2.83	2.25
LTC4252-2CMS8-ND	Negative Voltage Hot Swap Controller	8-MSOP	4.13	2.74	2.20
LTC4253CGN#PBF-ND	Negative 48V Hot Swap Controller with Sequencer★	16-SSOP	5.88	3.91	3.15
LTC4261CGN#PBF-ND	Negative Voltage Hot Swap Controller with ADC and I²C Monitoring★	28-SSOP	11.90	8.50	7.00
LTC4261CUFD#PBF-ND	Negative Voltage Hot Swap Controller with ADC and I²C Monitoring★	24-QFN	11.90	8.50	7.00
LTC4261IGN#PBF-ND	Negative Voltage Hot Swap Controller with ADC and I²C Monitoring★	28-SSOP	14.30	10.21	8.41

PCMCIA Switches

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1315CG-ND	PCMCIA Switching Matrix	24-SSOP	6.25	4.15	3.35
LTC1312CS8-ND	Single PCMCIA VPP Driver/Regulator	8-SOIC	3.75	2.50	2.15
LTC1470CS8#PBF-ND	Single PCMCIA Protected 3.3V/5V Vcc Switch★	8-SOIC	4.50	3.00	2.60
LTC1470ES8-ND	Single PCMCIA Protected 3.3V/5V Vcc Switch	8-SOIC	5.38	3.84	3.16
LTC1470ES8#PBF-ND	Single PCMCIA Protected 3.3V/5V Vcc Switch★	8-SOIC	5.38	3.84	3.16
LTC1471CS-ND	Dual PCMCIA Protected 3.3V/5V Vcc Switch	16-SOIC	7.50	5.00	4.29
LTC1471CS#PBF-ND	Dual PCMCIA Protected 3.3V/5V Vcc Switch★	16-SOIC	7.50	5.00	4.29
LTC1472CS-ND	Protected PCMCIA Vcc/VPP Switching Matrix	16-SOIC	6.25	4.15	3.55
LTC1472CS#PBF-ND	Protected PCMCIA Vcc/VPP Switching Matrix★	16-SOIC	6.25	4.15	3.55

PWM Controllers

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1242CS8-ND	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1242CS8#PBF-ND	High Speed Current Mode PWM★	8-SOIC	3.88	2.58	2.30
LT1243CN8#PBF-ND	High Speed Current Mode PWM★	8-Dip	3.50	2.33	2.10
LT1243CS8-ND	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1243CS8#PBF-ND	High Speed Current Mode PWM★	8-SOIC	3.88	2.58	2.30
LT1243IN8#PBF-ND	High Speed Current Mode PWM, Ind. Temp.★	8-Dip	3.88	2.58	2.30
LT1244CN8-ND	High Speed Current Mode PWM	8-Dip	3.50	2.33	2.10
LT1244CN8#PBF-ND	High Speed Current Mode PWM★	8-Dip	3.50	2.33	2.10
LT1244CS8-ND	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1244CS8#PBF-ND	High Speed Current Mode PWM★	8-SOIC	3.88	2.58	2.30
LT1245CS8-ND	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1245CS8#PBF-ND	High Speed Current Mode PWM★	8-SOIC	3.88	2.58	2.30

★ RoHS Compliant

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

POWER MANAGEMENT *(Continued)*

CCFL/LCD

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1182CS#PBF-ND	CCFL/LCD Contrast Switching Regulator*	16-SOIC	9.38	6.25	5.35
LT1183CS-ND	CCFL/LCD Contrast Switching Regulator	16-SOIC	9.38	6.25	5.35
LT1183CS#PBF-ND	CCFL/LCD Contrast Switching Regulator*	16-SOIC	9.38	6.25	5.35
LT1184CS#PBF-ND	CCFL/LCD Contrast Switching Regulator*	16-SOIC	6.63	4.40	3.80
LT1184FCS-ND	CCFL/LCD Contrast Switching Regulator, Floating	16-SOIC	7.88	5.25	4.50
LT1184FCS#PBF-ND	CCFL/LCD Contrast Switching Reg., Floating*	16-SOIC	7.88	5.25	4.50

MOSFET Drivers

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1158CN#PBF-ND	Half Bridge N-Channel Power MOSFET Driver*	16-Dip	5.88	3.92	3.50
LT1158CSW#PBF-ND	Half Bridge N-Channel Power MOSFET Driver*	16-SOIC	6.25	4.17	3.75
LT1158ISW-ND	Half Bridge N-Channel Power MOSFET Driver	16-SOIC	7.25	4.83	4.30
LT1158ISW#PBF-ND	Half Bridge N-Channel Power MOSFET Driver*	16-SOIC	7.25	4.83	4.30
LT1160CS#PBF-ND	Half Bridge N-Channel Power MOSFET Driver*	14-SOIC	5.63	3.75	3.20
LT1161CN#PBF-ND	Quad High Side N-Channel MOSFET Driver*	20-Dip	6.00	4.00	3.30
LT1161CSW#PBF-ND	Quad High Side N-Channel MOSFET Driver*	20-SOIC	6.50	4.32	3.60
LT1161IN-ND	Quad High Side N-Channel MOSFET Driver	20-Dip	6.75	4.50	3.70
LT1161IN#PBF-ND	Quad High Side N-Channel MOSFET Driver*	20-Dip	6.75	4.50	3.70
LT1161ISW#PBF-ND	Quad High Side N-Channel MOSFET Driver*	20-SOIC	7.25	4.82	4.05
LT1336CN-ND	Half Bridge N-Channel MOSFET Driver	16-Dip	5.63	3.75	3.20
LT1336CS#PBF-ND	Half Bridge N-Channel MOSFET Driver*	16-SOIC	6.00	4.00	3.40
LT1910ES8-ND	High Side MOSFET Driver	8-SOIC	4.13	2.95	2.43
LT1910ES8#PBF-ND	High Side MOSFET Driver*	8-SOIC	4.13	2.95	2.43
LTC1153CN8-ND	Auto-Reset Electronic Circuit Breaker	8-Dip	3.75	2.50	2.10
LTC1153CN8#PBF-ND	Auto-Reset Electronic Circuit Breaker*	8-Dip	3.75	2.50	2.10
LTC1153CS8-ND	Auto-Reset Electronic Circuit Breaker	8-SOIC	4.00	2.66	2.25
LTC1153CS8#PBF-ND	Auto-Reset Electronic Circuit Breaker*	8-SOIC	4.00	2.66	2.25
LTC1153IS8-ND	Auto-Reset Electronic Circuit Breaker	8-SOIC	4.88	3.24	2.75
LTC1153IS8#PBF-ND	Auto-Reset Electronic Circuit Breaker*	8-SOIC	4.88	3.24	2.75
LTC1154CS8#PBF-ND	Single High Side MOSFET Driver*	8-SOIC	3.50	2.35	2.00
LTC1155CN8#PBF-ND	Dual High Side MOSFET Driver*	8-Dip	5.25	3.50	3.00
LTC1155CS8#PBF-ND	Dual High Side MOSFET Driver*	8-SOIC	5.63	3.75	3.20
LTC1157CS8#PBF-ND	Dual, 3.3V, High Side MOSFET Driver*	8-SOIC	4.75	3.16	2.65
LTC1163CS8#PBF-ND	Triple High Side MOSFET Driver*	8-SOIC	5.25	3.50	2.90
LTC1165CS8-ND	Triple High Side MOSFET Driver	8-SOIC	5.25	3.50	2.90
LTC1165CS8#PBF-ND	Triple High Side MOSFET Driver*	8-SOIC	5.25	3.50	2.90
LTC1255CN8-ND	Dual 24V High Side MOSFET Driver	8-Dip	5.25	3.50	3.00
LTC1255CS8-ND	Dual 24V High Side MOSFET Driver	8-SOIC	5.63	3.75	3.20
LTC1255CS8#PBF-ND	Dual 24V High Side MOSFET Driver*	8-SOIC	5.63	3.75	3.20
LTC1266CS#PBF-ND	Sync. Reg. Controller for N/P Ch. MOSFETS*	16-SOIC	7.50	4.98	4.05
LTC1266CS-3.3-ND	3.3V Sync. Reg. Controller for N/P Channel MOSFETS	16-SOIC	7.50	4.98	4.05
LTC1266IS-ND	Sync. Reg. Controller for N/P Ch. MOSFETS	16-SOIC	8.50	5.65	4.45
LTC1266IS#PBF-ND	Sync. Reg. Controller for N/P Ch. MOSFETS*	16-SOIC	8.50	5.65	4.45
LTC1266IS-3.3-ND	3.3V Sync. Reg. Controller for N/P Channel MOSFETS	16-SOIC	8.50	5.65	4.45
LTC1266IS-3.3#PBF-ND	3.3V Sync. Reg. Controller for N/P Channel MOSFETS*	16-SOIC	8.50	5.65	4.45
LTC1266IS-5-ND	5V Sync. Reg. Controller for N/P Channel MOSFETS	16-SOIC	8.50	5.65	4.45
LTC1477CS8-ND	Single Protected High Side Switch	8-SOIC	6.25	4.15	3.13
LTC1477CS8#PBF-ND	Single Protected High Side Switch*	8-SOIC	6.25	4.15	3.50
LTC1478CS#PBF-ND	Dual Protected High Side Switch*	16-SOIC	10.00	6.65	5.55
LTC1693-1CS8#PBF-ND	High-Speed Dual N-Channel MOSFET Driver*	8-SOIC	3.50	2.33	1.75
LTC1693-1IS8#PBF-ND	High-Speed Dual N-Channel MOSFET Driver, Ind. Temp*	8-SOIC	4.00	2.66	2.00
LTC1693-2IS8-ND	High-Speed Dual N-Channel MOSFET Driver, Ind. Temp.	8-SOIC	4.00	2.66	2.00
LTC1693-2IS8#PBF-ND	High-Speed Dual N-Channel MOSFET Driver, Ind. Temp*	8-SOIC	4.00	2.66	2.00
LTC1693-5CMS8-ND	High-Speed Single N-Channel MOSFET Driver	8-MSOP	3.63	2.41	1.82
LTC1693-5CMS8#PBF-ND	High-Speed Single N-Channel MOSFET Driver*	8-MSOP	3.63	2.41	1.82
LTC1710CMS8-ND	Dual SMBus High Side Switch	8-MSOP	6.38	4.24	3.20
LTC1710CS8-ND	Dual SMBus High Side Switch	8-SOIC	5.88	3.91	2.95
LTC1710IS8-ND	Dual SMBus High Side Switch, Ind. Temp.	8-SOIC	7.00	4.65	3.50
LTC1981ES5#TRMCT-ND	Single Micropower High Side Switcher Controller	SOT-23-5	3.02	2.70	2.43
LTC1981ES5#TRMPBFCT-ND	Single Micropower High Side Switcher Controller*	SOT-23-5	3.02	2.70	2.43
LTC1981ES5#TRMPBFTR-ND	Single Micropower High Side Switcher Controller*	SOT-23-5	690.00/500		
LTC1982ES6#TRMCT-ND	Dual N-Channel MOSFET Driver	SOT-23-6	3.47	3.10	2.79
LTC1982ES6#TRMPBFCT-ND	Dual N-Channel MOSFET Driver*	SOT-23-6	3.47	3.10	2.79
LTC1982ES6#TRMPBFTR-ND	Dual N-Channel MOSFET Driver*	SOT-23-6	910.00/500		
LTC4440EMS8E-ND	High-Speed, High Voltage, High Side Gate Driver	8-MSOP	3.50	2.50	2.06
LTC4440ES6#TRMPBFCT-ND	High-Speed, High Voltage, High Side Gate Driver*	SOT-23-6	4.14	3.70	3.33
LTC4440ES6#TRMPBFTR-ND	High-Speed, High Voltage, High Side Gate Driver*	SOT-23-6	1085.00/500		

SIM Interface

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1555IGN-ND	SIM Power Supply and Level Translator	16-SSOP	6.50	4.32	3.70
LTC1555IGN#PBF-ND	SIM Power Supply and Level Translator*	16-SSOP	6.50	4.32	3.70
LTC1556CGN-ND	SIM Power Supply and Level Translator with LDO Reg.	20-SSOP	6.25	4.15	3.60
LTC1556IGN-ND	SIM Power Supply and Level Translator with LDO Reg.	20-SSOP	7.75	5.15	4.45
LTC1955EUH-ND	Dual Smart Card Interface with Serial Control	32-QFN	4.90	3.50	2.88
LTC1955EUH#PBF-ND	Dual Smart Card Interface with Serial Control*	32-QFN	4.90	3.50	2.88
LTC4555EUD#PBF-ND	SIM Power Supply and Level Translator*	16-QFN	2.40	1.71	1.41

Supply Tracker

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC2908CTS8-C1#TRMPBFCT-ND	Precision Six Input Supply Monitor*	TSOT-23-8	5.85	5.23	4.71
LTC2908CTS8-C1#TRMPBFTR-ND	Precision Six Input Supply Monitor*	TSOT-23-8	1485.00/500		
LTC2908ITS8-C1#TRMPBFCT-ND	Precision Six Input Supply Monitor*	TSOT-23-8	6.55	5.85	5.27
LTC2908ITS8-C1#TRMPBFTR-ND	Precision Six Input Supply Monitor*	TSOT-23-8	1660.00/500		
LTC2910CDHC#PBF-ND	Octal Positive/Negative Voltage Monitor*	16-DFN	6.40	4.57	3.76
LTC2910CGN#PBF-ND	Octal Positive/Negative Voltage Monitor*	16-SSOP	6.40	4.57	3.76
LTC2910IDHC#PBF-ND	Octal Positive/Negative Voltage Monitor*	16-DFN	7.70	5.50	4.53
LTC2910IGN#PBF-ND	Octal Positive/Negative Voltage Monitor*	16-SSOP	7.70	5.50	4.53
LTC2912CDDB-1#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	8-DFN	3.36	3.00	2.70
LTC2912CDDB-1#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	8-DFN	880.00/500		
LTC2912CTS8-1#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	3.36	3.00	2.70
LTC2912CTS8-1#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	880.00/500		
LTC2912CTS8-2#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	3.36	3.00	2.70
LTC2912CTS8-2#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	880.00/500		
LTC2912CTS8-3#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	3.36	3.00	2.70
LTC2912CTS8-3#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	880.00/500		
LTC2912IDDB-1#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	8-DFN	4.00	3.58	3.22
LTC2912IDDB-2#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	8-DFN	4.00	3.58	3.22
LTC2912IDDB-2#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	8-DFN	1045.00/500		
LTC2912IDDB-3#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	8-DFN	4.00	3.58	3.22
LTC2912IDDB-3#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	8-DFN	1045.00/500		
LTC2912ITS8-1#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	4.00	3.58	3.22
LTC2912ITS8-1#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	1045.00/500		
LTC2912ITS8-2#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	4.00	3.58	3.22
LTC2912ITS8-2#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	1045.00/500		
LTC2912ITS8-3#TRMPBFCT-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	4.00	3.58	3.22
LTC2912ITS8-3#TRMPBFTR-ND	Single UV/OV Voltage Monitor*	TSOT-23-8	1045.00/500		
LTC2913CDD-1#PBF-ND	Dual UV/OV Voltage Monitor*	10-DFN	4.60	3.29	2.71
LTC2913CDD-2#PBF-ND	Dual UV/OV Voltage Monitor*	10-DFN	4.60	3.29	2.71
LTC2913CMS-1#PBF-ND	Dual UV/OV Voltage Monitor*	10-MSOP	4.60	3.29	2.71
LTC2913CMS-2#PBF-ND	Dual UV/OV Voltage Monitor*	10-MSOP	4.60	3.29	2.71
LTC2913IDD-1#PBF-ND	Dual UV/OV Voltage Monitor*	10-DFN	5.50	3.93	3.24
LTC2913IDD-2#PBF-ND	Dual UV/OV Voltage Monitor*	10-DFN	5.50	3.93	3.24
LTC2913IMS-1#PBF-ND	Dual UV/OV Voltage Monitor*	10-MSOP	5.50	3.93	3.24
LTC2913IMS-2#PBF-ND	Dual UV/OV Voltage Monitor*	10-MSOP	5.50	3.93	3.24
LTC2914CDHC-1#PBF-ND	Quad UV/OV Postive/Negative Voltage Monitor*	16-DFN	7.50	5.36	4.41
LTC2914CDHC-2#PBF-ND	Quad UV/OV Postive/Negative Voltage Monitor*	16-DFN	7.50	5.36	4.41
LTC2914CGN-1#PBF-ND	Quad UV/OV Postive/Negative Voltage Monitor*	16-SSOP	7.50	5.36	4.41
LTC2914CGN-2#PBF-ND	Quad UV/OV Postive/Negative Voltage Monitor*	16-SSOP	7.50	5.36	4.41
LTC2914IDHC-1#PBF-ND	Quad UV/OV Postive/Negative Voltage Monitor*	16-DFN	9.00	6.43	5.29
LTC2914IDHC-2#PBF-ND	Quad UV/OV Postive/Negative Voltage Monitor*	16-DFN	9.00	6.43	5.29
LTC2914IGN-1#PBF-ND	Quad UV/OV Postive/Negative Voltage Monitor*	16-SSOP	9.00	6.43	5.29
LTC2921CGN-ND	Power Supply Tracker with Monitor	16-SSOP	6.25	4.20	3.60
LTC2921CGN#PBF-ND	Power Supply Tracker with Monitor*	16-SSOP	6.25	4.20	3.60
LTC2921CGN-2.5-ND	Power Supply Tracker with Monitor	16-SSOP	6.25	4.20	3.60
LTC2921CGN-3.3-ND	Power Supply Tracker with Monitor	16-SSOP	6.25	4.20	3.60
LTC2922CF-ND	Power Supply Tracker with Monitor	20-TSSOP	6.75	4.50	3.85
LTC2922CF-2.5-ND	Power Supply Tracker with Monitor	20-TSSOP	6.75	4.50	3.85
LTC2922CF-3.3-ND	Power Supply Tracker with Monitor	20-TSSOP	6.75	4.50	3.85
LTC2928IG#PBF-ND	Power Supply Tracker with Monitor*	36-SSOP	9.73	6.94	5.72
LTC2928IUHF#PBF-ND	Power Supply Tracker with Monitor*	38-QFN	9.73	6.94	5.72
LTC2950CDDB-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.17	3.73	3.36
LTC2950CDDB-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1090.00/500		
LTC2950IDDB-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.87	4.35	3.92
LTC2950IDDB-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1275.00/500		
LTC2952CF#PBF-ND	Pushbutton PowerPath™ Controller*	20-TSSOP	5.90	4.21	3.47
LTC2952CUF#PBF-ND	Pushbutton PowerPath™ Controller*	20-QFN	5.90	4.21	3.47
LTC2952IF#PBF-ND	Pushbutton PowerPath™ Controller*	20-TSSOP	7.08	5.05	4.16
LTC2952IUF#PBF-ND	Pushbutton PowerPath™ Controller*	20-QFN	7.08	5.05	4.16
LTC2953CDD-1#PBF-ND	Pushbutton On/Off Controller*	12-DFN	4.60	3.29	2.71
LTC2953CDD-2#PBF-ND	Pushbutton On/Off Controller*	12-DFN	4.60	3.29	2.71
LTC2953IDD-1#PBF-ND	Pushbutton On/Off Controller*	12-DFN	5.53	3.94	3.25
LTC2953IDD-2#PBF-ND	Pushbutton On/Off Controller*	12-DFN	5.53	3.94	3.25
LTC2954CDDB-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.17	3.73	3.36
LTC2954CDDB-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1090.00/500		
LTC2954CDDB-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.17	3.73	3.36
LTC2954CDDB-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1090.00/500		
LTC2954CTS8-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.17	3.73	3.36
LTC2954CTS8-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1090.00/500		
LTC2954CTS8-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.17	3.73	3.36
LTC2954CTS8-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1090.00/500		
LTC2954IDDB-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	8-DFN	4.87	4.35	3.92
LTC2954IDDB-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	8-DFN	1275.00/500		
LTC2954ITS8-1#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.87	4.35	3.92
LTC2954ITS8-1#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1275.00/500		
LTC2954ITS8-2#TRMPBFCT-ND	Pushbutton On/Off Controller*	TSOT-23-8	4.87	4.35	3.92
LTC2954ITS8-2#TRMPBFTR-ND	Pushbutton On/Off Controller*	TSOT-23-8	1275.00/500		

REFERENCES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM385BZ-2.5LT-ND	Precision Voltage Reference, 2.5V, 1.5%	TO-92	2.00	1.45	1.10
LT1004CS8-1.2-ND	Micropower 1.2 Voltage Reference	8-SOIC	2.88	1.92	1.65
LT1004CS8-1.2#PBF-ND	Micropower 1.2 Voltage Reference*	8-SOIC	2.88	1.92	1.65
LT1004CS8-2.5-ND	Micropower 2.5 Voltage Reference	8-SOIC	2.88	1.92	1.65
LT1004CS8-2.5#PBF-ND	Micropower 2.5 Voltage Reference*	8-SOIC	2.88	1.92	1.65
LT1004CZ-1.2#PBF-ND	Micropower 1.2 Voltage Reference*	TO-92	2.38	1.58	1.35
LT1004CZ-2.5-ND	Micropower 2.5 Voltage Reference	TO-92	2.38	1.58	1.35
LT1004CZ-2.5#PBF-ND	Micropower 2.5 Voltage Reference*	TO-92	2.38	1.58	1.35
LT1004IS8-1.2#PBF-ND	Micropower 1.2 Voltage Reference*	8-SOIC	5.63	3.75	3.20
LT1004IS8-2.5-ND	Micropower 2.5 Voltage Reference	8-SOIC	5.63	3.75	3.20
LT1004IS8-2.5#PBF-ND	Micropower 2.5 Voltage Reference*	8-SOIC	5.63	3.75	3.20
LT1004IZ-2.5-ND	Micropower 2.5 Voltage Reference	TO-92	5.00	3.33	2.85
LT1004IZ-2.5#PBF-ND	Micropower 2.5 Voltage Reference*	TO-92	5.00	3.33	2.85
LT1009CMS8-ND	2.5V Reference Shunt Regulator	8-MSOP	3.75	2.49	2.00
LT1009CMS8#PBF-ND	2.5V Reference Shunt Regulator*	8-MSOP	3.75	2.49	2.00
LT1009CZ-ND	2.5V Reference Shunt Regulator	TO-92	2.38	1.58	1.35
LT1009CZ#PBF-ND	2.5V Reference Shunt Regulator*	TO-92	2.38	1.58	1.35
LT1009IS8-ND	2.5V Reference Shunt Regulator	8-SOIC	4.50	3.00	2.55
LT1009IS8#PBF-ND	2.5V Reference Shunt Regulator*	8-SOIC	4.50	3.00	2.55
LT1009IZ#PBF-ND	2.5V Reference Shunt Regulator*	TO-92	4.13	2.75	2.35
LT1009S8-ND	2.5V Reference Shunt Regulator	8-SOIC	3.13	2.08	1.85
LT1009S8#PBF-ND	2.5V Reference Shunt Regulator*	8-SOIC	3.13	2.08	1.85
LT1019ACN8-2.5-ND	Precision 2.5V Bandgap Reference (Elect. Improved) .05%	8-Dip	11.25	7.50	6.50
LT1019ACN8-2.5#PBF-ND	Precision 2.5V Bandgap Reference (Elect. Improved) .05%*	8-Dip	11.25	7.50	6.50
LT1019ACN8-4.5#PBF-ND	Precision 4.5V Bandgap Reference (Elect. Improved) .05%*	8-Dip	11.25	7.50	6.50
LT1019ACN8-5#PBF-ND	Precision 5V Bandgap Reference (Elect. Improved) .05%*	8-Dip	11.25	7.50	6.50
LT1019ACS8-2.5#PBF-ND	Precision 2.5V Reference (Elect. Improved) .05%*	8-SOIC	10.88	7.50	6.50

***RoHS Compliant**

(Continued)

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LINEAR TECHNOLOGY DigiReel® REFERENCES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1019ACS8-5#PBF-ND	Precision 5V Reference (Elect. Improved) .05%*	8-SOIC	10.88	7.50	6.50
LT1019CN8-2.5-ND	Precision 2.5V Bandgap Reference .02%	8-Dip	6.88	4.58	3.90
LT1019CN8-2.5#PBF-ND	Precision 2.5V Bandgap Reference .02%*	8-Dip	6.88	4.58	3.90
LT1019CN8-5#PBF-ND	Precision 5V Bandgap Reference .02%*	8-Dip	6.88	4.58	3.90
LT1019CN8-10-ND	Precision 10V Bandgap Reference .02%	8-Dip	6.88	4.58	3.90
LT1019CS8-2.5-ND	Precision 2.5V Bandgap Reference .02%	8-SOIC	8.38	5.58	4.85
LT1019CS8-2.5#PBF-ND	Precision 2.5V Bandgap Reference .02%*	8-SOIC	8.38	5.58	4.85
LT1019CS8-4.5#PBF-ND	Precision 4.5V Bandgap Reference .02%*	8-SOIC	8.38	5.58	4.85
LT1019CS8-5-ND	Precision 5V Bandgap Reference .02%	8-SOIC	8.38	5.58	4.85
LT1019CS8-5#PBF-ND	Precision 5V Bandgap Reference .02%*	8-SOIC	8.38	5.58	4.85
LT1019CS8-10-ND	Precision 10V Bandgap Reference .02%	8-SOIC	8.38	5.58	4.65
LT1019CS8-10#PBF-ND	Precision 10V Bandgap Reference .02%*	8-SOIC	8.38	5.58	4.85
LT1019IN8-2.5-ND	Precision 2.5V Bandgap Reference .02%	8-Dip	8.63	5.75	4.95
LT1019IN8-2.5#PBF-ND	Precision 2.5V Bandgap Reference .02%*	8-Dip	8.63	5.75	4.95
LT1021BCN8-5-ND	Precision 5V Reference, TC 5ppm/°C	8-Dip	9.63	6.42	5.50
LT1021BCN8-5#PBF-ND	Precision 5V Reference, TC 5ppm/°C*	8-Dip	9.63	6.42	5.50
LT1021BCN8-7-ND	Precision 7V Reference, TC 5ppm/°C	8-Dip	9.63	6.42	5.50
LT1021BCN8-7#PBF-ND	Precision 7V Reference, TC 5ppm/°C*	8-Dip	9.63	6.42	5.50
LT1021BCN8-10-ND	Precision 10V Reference, TC 5ppm/°C	8-Dip	9.63	6.42	5.50
LT1021BCN8-10#PBF-ND	Precision 10V Reference, TC 5ppm/°C*	8-Dip	9.63	6.42	5.50
LT1021CCH-5-ND	Precision 5V Reference, 0.05% Tolerance	TO-5-8	9.38	6.25	5.35
LT1021CCN8-5-ND	Precision 5V Reference, TC 20ppm/°C	8-Dip	6.38	4.25	3.65
LT1021CCN8-5#PBF-ND	Precision 5V Reference, TC 20ppm/°C*	8-Dip	6.38	4.25	3.65
LT1021CCN8-10-ND	Precision 10V Reference, TC 20ppm/°C	8-Dip	6.38	4.25	3.65
LT1021CCN8-10#PBF-ND	Precision 10V Reference, TC 20ppm/°C*	8-Dip	6.38	4.25	3.65
LT1021CIN8-5-ND	Precision 5V Reference, TC 20ppm/°C	8-Dip	8.63	5.75	4.85
LT1021CIN8-5#PBF-ND	Precision 5V Reference, TC 20ppm/°C*	8-Dip	8.63	5.75	4.85
LT1021DCN8-5#PBF-ND	Precision 5V Reference, TC 20ppm/°C*	8-Dip	4.75	3.17	2.75
LT1021DCN8-10#PBF-ND	Precision 10V Reference, TC 20ppm/°C*	8-Dip	4.75	3.17	2.75
LT1021DCS8-5#PBF-ND	Precision 5V Reference, TC 20ppm/°C*	8-SOIC	5.88	3.92	3.35
LT1021DCS8-10-ND	Precision 10V Reference, TC 20ppm/°C	8-SOIC	5.88	3.92	3.35
LT1021DCS8-10#PBF-ND	Precision 10V Reference, TC 20ppm/°C*	8-SOIC	5.88	3.92	3.35
LT1027BCN8-5-ND	5V Precision Reference, 2ppm/°C	8-Dip	9.25	6.17	4.95
LT1027BCN8-5#PBF-ND	5V Precision Reference, 2ppm/°C*	8-Dip	9.25	6.17	4.95
LT1027CCN8-5#PBF-ND	5V Precision Reference, 3ppm/°C*	8-Dip	8.38	5.58	4.50
LT1027CCS8-5#PBF-ND	5V Precision Reference, 3ppm/°C*	8-SOIC	9.50	6.31	4.75
LT1027DCN8-5-ND	5V Precision Reference, 5ppm/°C	8-Dip	7.38	4.92	3.95
LT1027DCN8-5#PBF-ND	5V Precision Reference, 5ppm/°C*	8-Dip	7.38	4.92	3.95
LT1027ECN8-5-ND	5V Precision Reference, 7.5ppm/°C	8-Dip	6.88	4.58	3.65
LT1027ECN8-5#PBF-ND	5V Precision Reference, 7.5ppm/°C*	8-Dip	6.88	4.58	3.65
LT1027ECS8-5#PBF-ND	5V Precision Reference, 7.5ppm/°C*	8-SOIC	4.63	3.10	2.40
LT1029ACZ#PBF-ND	5V Precision Bandgap Reference, 20ppm/°C*	TO-92	4.50	3.00	2.60
LT1029CZ-ND	5V Precision Bandgap Reference, 20ppm/°C	TO-92	2.75	1.83	1.60
LT1029CZ#PBF-ND	5V Precision Bandgap Reference, 20ppm/°C*	TO-92	2.75	1.83	1.60
LT1034BCZ-2.5#PBF-ND	Dual 2.5V Reference, Max TC = 20 ppm/°C*	TO-92	5.00	3.33	2.85
LT1034CS8-1.2#PBF-ND	Dual 1.2V Reference, Max TC = 40 ppm/°C*	8-SOIC	4.50	3.00	2.40
LT1034CS8-2.5-ND	Dual 2.5V Reference, Max TC = 40 ppm/°C	8-SOIC	4.50	3.00	2.40
LT1034CZ-1.2-ND	Dual 1.2V Reference, Max TC = 40 ppm/°C	TO-92	3.75	2.50	2.15
LT1034CZ-2.5-ND	Dual 2.5V Reference, Max TC = 40 ppm/°C	TO-92	3.75	2.50	2.15
LT1034IS8-2.5-ND	Dual 2.5V Reference, Max TC = 40ppm/°C	8-SOIC	6.25	4.17	3.35
LT1034IZ-2.5-ND	Dual 2.5V Reference, 20ppm/°C	TO-92	5.38	3.58	3.05
LT1236ACN8-5#PBF-ND	5V Precision Reference, 5ppm/°C*	8-Dip	7.75	5.15	4.00
LT1236ACS8-5#PBF-ND	5V Precision Reference, 5ppm/°C*	8-SOIC	7.75	5.15	4.00
LT1236ACS8-10#PBF-ND	10V Precision Reference, 5ppm/°C*	8-SOIC	6.38	4.24	3.30
LT1236AIS8-5#PBF-ND	5V Precision Reference, 5ppm/°C*	8-SOIC	10.25	6.81	5.32
LT1236BCN8-5-ND	5V Precision Reference, 10ppm/°C	8-Dip	4.50	2.99	2.30
LT1236BCS8-5#PBF-ND	5V Precision Reference, 10ppm/°C*	8-SOIC	4.50	2.99	2.30
LT1236BCS8-10-ND	10V Precision Reference, 10ppm/°C	8-SOIC	4.88	3.24	2.55
LT1236BCS8-10#PBF-ND	10V Precision Reference, 10ppm/°C*	8-SOIC	4.88	3.24	2.55
LT1236BIS8-5-ND	5V Precision Reference 10ppm/°C	8-SOIC	5.13	3.41	2.65
LT1236BIS8-5#PBF-ND	5V Precision Reference 10ppm/°C*	8-SOIC	5.13	3.41	2.65
LT1236CCN8-5-ND	5V Precision Reference, 15ppm/°C	8-Dip	4.00	2.66	2.05
LT1236CCN8-5#PBF-ND	5V Precision Reference, 15ppm/°C*	8-Dip	4.00	2.66	2.05
LT1236CCN8-10#PBF-ND	10V Precision Reference, 15ppm/°C*	8-Dip	4.50	2.99	2.35
LT1236CCS8-5#PBF-ND	5V Precision Reference, 15ppm/°C*	8-SOIC	4.00	2.66	2.05
LT1389ACS8-1.25-ND	1.25V Nanopower Precision Shunt Voltage Ref.	8-SOIC	11.13	7.39	5.57
LT1389ACS8-1.25#PBF-ND	1.25V Nanopower Precision Shunt Voltage Ref.*	8-SOIC	11.13	7.39	5.57
LT1389BCS8-1.25#PBF-ND	1.25V Nanopower Precision Shunt Voltage Ref.*	8-SOIC	6.50	4.32	3.25
LT1389BCS8-2.5-ND	2.5V Nanopower Precision Shunt Voltage Ref.	8-SOIC	6.50	4.32	3.25
LT1389BCS8-2.5#PBF-ND	2.5V Nanopower Precision Shunt Voltage Ref.*	8-SOIC	6.50	4.32	3.25
LT1389BCS8-5-ND	5V Nanopower Precision Shunt Voltage Ref.	8-SOIC	6.50	4.32	3.25
LT1431CN8-ND	Programmable Reference, .4% Tolerance	8-Dip	2.25	1.50	1.25
LT1431CN8#PBF-ND	Programmable Reference, .4% Tolerance*	8-Dip	2.25	1.50	1.25
LT1431CS8#PBF-ND	Programmable Reference, .4% Tolerance*	8-SOIC	3.13	2.08	1.80
LT1460ACN8-10-ND	10V Micropower Precision Series Reference	8-Dip	5.50	3.66	2.85
LT1460ACS8-2.5#PBF-ND	2.5V Micropower Precision Series Reference*	8-SOIC	6.25	4.15	3.45
LT1460ACS8-5-ND	5V Micropower Precision Series Reference	8-SOIC	6.25	4.15	3.45
LT1460ACS8-5#PBF-ND	5V Micropower Precision Series Reference*	8-SOIC	6.25	4.15	3.45
LT1460ACS8-10-ND	10V Micropower Precision Series Bandgap Ref.	8-SOIC	6.25	4.15	3.25
LT1460ACS8-10#PBF-ND	10V Micropower Precision Series Bandgap Ref.*	8-SOIC	6.25	4.15	3.25
LT1460BIN8-5-ND	5V Micropower Precision Series Bandgap Ref.	8-Dip	9.00	5.98	4.95
LT1460BIS8-2.5#PBF-ND	2.5V Micropower Precision Series Bandgap Ref.*	8-SOIC	9.13	6.06	5.05
LT1460BIS8-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.*	8-SOIC	9.13	6.06	5.05
LT1460CCMS8-5-ND	5V Micropower Precision Series Bandgap Ref.	8-MSOP	6.50	4.32	3.60
LT1460DCN8-2.5-ND	2.5V Micropower Precision Series Bandgap Ref.	8-Dip	3.75	2.49	2.10
LT1460DCN8-5-ND	5V Micropower Precision Series Bandgap Ref.	8-Dip	3.75	2.49	2.10
LT1460DCS8-2.5#PBF-ND	2.5V Micropower Precision Series Bandgap Ref.*	8-SOIC	4.00	2.66	2.20
LT1460DCS8-5-ND	5V Micropower Precision Series Bandgap Ref.	8-SOIC	4.00	2.66	2.20
LT1460DCS8-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.*	8-SOIC	4.00	2.66	2.20
LT1460DCS8-10-ND	10V Micropower Precision Series Bandgap Ref.	8-SOIC	4.00	2.66	2.20
LT1460DCS8-10#PBF-ND	10V Micropower Precision Series Bandgap Ref.*	8-SOIC	4.00	2.66	2.20
LT1460EIN8-2.5-ND	2.5V Micropower Precision Series Bandgap Ref.	8-Dip	4.25	2.83	2.35
LT1460EIS8-2.5-ND	2.5V Micropower Precision Series Bandgap Ref.	8-SOIC	4.50	2.99	2.50
LT1460EIS8-2.5#PBF-ND	2.5V Micropower Precision Series Bandgap Ref.*	8-SOIC	4.50	2.99	2.50
LT1460EIS8-5-ND	5V Micropower Precision Series Bandgap Ref.	8-SOIC	4.38	2.91	2.40
LT1460EIS8-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.*	8-SOIC	4.38	2.91	2.40
LT1460FCMS8-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.*	8-MSOP	4.25	2.83	2.30
LT1460FCMS8-10-ND	10V Micropower Precision Series Bandgap Ref.	8-SOIC	4.25	2.83	2.35
LT1460FCMS8-10#PBF-ND	10V Micropower Precision Series Bandgap Ref.*	8-SOIC	4.25	2.83	2.35
LT1460GCZ-2.5-ND	2.5V Micropower Precision Series Bandgap Ref.	TO-92	3.00	2.00	1.65
LT1460GCZ-2.5#PBF-ND	2.5V Micropower Precision Series Bandgap Ref.*	TO-92	3.00	2.00	1.65
LT1460GCZ-5-ND	5V Micropower Precision Series Bandgap Reference	TO-92	3.00	2.00	1.65
LT1460GIZ-5-ND	5V Micropower Precision Series Bandgap Reference	TO-92	3.25	2.16	1.75
LT1460GIZ-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.*	TO-92	3.25	2.16	1.75
LT1460LHS8-2.5-ND	2.5V Precision Series Ref. with Extended Temp.	8-SOIC	5.00	3.32	2.85
LT1460MHS8-2.5-ND	2.5V Precision Series Ref. with Extended Temp.	8-SOIC	4.75	3.16	2.40
LT1461ACS8-2.5#PBF-ND	2.5V Micropower Precision LDO Voltage Ref.*	8-SOIC	10.75	7.68	6.32
LT1461ACS8-3-ND	3V Micropower Precision LDO Voltage Reference	8-SOIC	12.88	9.20	7.57
LT1461ACS8-3.3-ND	3.3V Micropower Precision LDO Voltage Reference	8-SOIC	12.88	9.20	7.57
LT1461ACS8-3.3#PBF-ND	3.3V Micropower Precision LDO Voltage Ref.*	8-SOIC	12.88	9.20	7.57
LT1461ACS8-4-ND	4.096V Micropower Precision LDO Voltage Ref.	8-SOIC	10.75	7.68	6.32
LT1461ACS8-4#PBF-ND	4.096V Micropower Precision LDO Voltage Ref.*	8-SOIC	10.75	7.68	6.32
LT1461ACS8-5#PBF-ND	5V Micropower Precision LDO Voltage Reference*	8-SOIC	10.75	7.68	6.32
LT1461BCS8-3.3-ND	3.3V Micropower Precision LDO Voltage Reference	8-SOIC	8.88	5.90	4.70
LT1461BCS8-4#PBF-ND	4.096V Micropower Precision LDO Voltage Ref.*	8-SOIC	7.38	5.27	4.34
LT1461BCS8-5#PBF-ND	5V Micropower Precision LDO Voltage Reference*	8-SOIC	7.38	5.27	4.34
LT1461CCS8-3-ND	3V Micropower Precision LDO Voltage Reference	8-SOIC	3.00	2.00	1.75
LT1461CCS8-3#PBF-ND	3V Micropower Precision LDO Voltage Reference*	8-SOIC	3.00	2.00	1.75
LT1461CCS8-3.3-ND	3.3V Micropower Precision LDO Voltage Reference	8-SOIC	3.00	2.00	1.75
LT1461CCS8-3.3#PBF-ND	3.3V Micropower Precision LDO Voltage Ref.*	8-SOIC	3.00	2.00	1.75
LT1461CCS8-4#PBF-ND	4.096V Micropower Precision LDO Voltage Ref.*	8-SOIC	3.00	2.00	1.75
LT1461CCS8-5-ND	5V Micropower Precision LDO Voltage Reference	8-SOIC	3.00	2.00	1.75
LT1461CCS8-5#PBF-ND	5V Micropower Precision LDO Voltage Reference*	8-SOIC	3.00	2.00	1.75
LT1461DHS8-3#PBF-ND	3V Micropower Precision LDO Voltage Reference*	8-SOIC	3.00	2.00	1.75
LT1461DHS8-5#PBF-ND	5V Micropower Precision LDO Voltage Reference*	8-SOIC	3.00	2.00	1.75
LT1634ACS8-1.25-ND	1.25V Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634ACS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference*	8-SOIC	9.38	6.23	4.70
LT1634ACS8-2.5-ND	2.5V Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634ACS8-2.5#PBF-ND	2.5V Micropower Shunt Voltage Reference*	8-SOIC	9.38	6.23	4.70
LT1634ACS8-4.096-ND	4.096V Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634ACS8-4.096#PBF-ND	4.096V Micropower Shunt Voltage Reference*	8-SOIC	9.38	6.23	4.70
LT1634ACS8-5-ND	5V Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634ACS8-5#PBF-ND	5V Micropower Shunt Voltage Reference*	8-SOIC	9.38	6.23	4.70
LT1634AIS8-1.25-ND	1.25V Micropower Shunt Voltage Reference	8-SOIC	10.38	6.89	5.20
LT1634AIS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference*	8-SOIC	10.38	6.89	5.20
LT1634BCMS8-1.25-ND	1.25V Micropower Shunt Voltage Reference	8-MSOP	4.88	3.24	2.70
LT1634BCMS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference*	8-MSOP	4.88	3.24	2.70
LT1634BCS8-1.25-ND	1.25V Micropower Shunt Voltage Reference	8-SOIC	4.38	2.91	2.40
LT1634BCS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference*	8-SOIC	4.38	2.91	2.40
LT1634BCS8-2.5-ND	2.5V Micropower Shunt Voltage Reference	8-SOIC	4.38	2.91	2.40
LT1634BCS8-4.096#PBF-ND	4.096V Micropower Shunt Voltage Reference*	8-SOIC	4.38	2.91	2.40
LT1634BIS8-1.25-ND	1.25V Micropower Shunt Voltage Reference	8-SOIC	5.63	3.74	2.95
LT1634BIS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference*	8-SOIC	5.63	3.74	2.95
LT1634BIS8-2.5-ND	2.5V Micropower Shunt Voltage Reference	8-SOIC	5.63	3.74	2.95
LT1634BIS8-2.5#PBF-ND	2.5V Micropower Shunt Voltage Reference*	8-SOIC	5.63	3.74	2.95
LT1634CCZ-4.096-ND	4.096V Micropower Shunt Voltage Reference	TO-92	3.88	2.58	2.15
LT1790BCS6-1.25#TRMCT-ND	1.25V Micropower LDO Reference	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-1.25#TRMPBFCT-ND	1.25V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-1.25#TRMPBFTR-ND	1.25V Micropower LDO Reference*	SOT-23-6	725.00/500		
LT1790BCS6-2.048#TRMPBFCT-ND	2.048V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-2.048#TRMPBFTR-ND	2.048V Micropower LDO Reference*	SOT-23-6	725.00/500		
LT1790BCS6-2.5#TRMPBFCT-ND	2.5V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-2.5#TRMPBFTR-ND	2.5V Micropower LDO Reference*	SOT-23-6	725.00/500		
LT1790BCS6-3#TRMCT-ND	3V Micropower LDO Reference	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-3#TRMTR-ND	3V Micropower LDO Reference	SOT-23-6	725.00/500		
LT1790BCS6-3#TRMPBFCT-ND	3V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-3#TRMPBFTR-ND	3V Micropower LDO Reference*	SOT-23-6	725.00/500		
LT1790BCS6-3.3#TRMPBFCT-ND	3.3V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-3.3#TRMPBFTR-ND	3.3V Micropower LDO Reference*	SOT-23-6	725.00/500		
LT1790BCS6-4.096#TRMCT-ND	4.096V Micropower LDO Reference	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-4.096#TRMPBFCT-ND	4.096V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-4.096#TRMPBFTR-ND	4.096V Micropower LDO Reference*	SOT-23-6	725.00/500		
LT1790BCS6-5#TRMPBFCT-ND	5V Micropower LDO Reference*	SOT-23-6	3.16	2.83	2.55
LT1790BCS6-5#TRMPBFTR-ND	5V Micropower LDO Reference*	SOT-23-6	725.00/500		
LT1790BIS6-4.096#TRMPBFCT-ND	4.096V Micropower LDO Reference*	SOT-23-6	3.72	3.33	3.00
LT1790BIS6-4.096#TRMPBFTR-ND	4.096V Micropower LDO Reference*	SOT-23-6	930.00/500		
LTC1258CMS8-ND	Adj., Micropower LDO Bandgap Reference	8-MSOP	5.13	3.41	2.65
LTC1258CMS8#PBF-ND	Adj., Micropower LDO Bandgap Reference*	8-MSOP	5.13	3.41	2.65
LTC1258CS8-ND	Adj., Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30
LTC1258CS8-5-ND	5V Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30

LINEAR TECHNOLOGY DigiReel® DATA CONVERSION

General Purpose ADC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1090ACN#PBF-ND	Single Chip 8-Channel, 10-Bit Data Acquisition System*	20-Dip	25.75	17.15	15.80
LTC1090CN#PBF-ND	Single Chip 8-Channel, 10-Bit Data Acquisition System*	20-Dip	17.50	11.65	9.90
LTC1091CN8-ND	Single Chip 2-Channel, 10-Bit Data Acquisition System	8-Dip	17.50	11.70	9.90
LTC1091CN8#PBF-ND	Single Chip 2-Channel, 10-Bit Data Acquisition System*	8-Dip	17.50	11.70	9.90
LTC1092CN8-ND	Single Chip 1-Channel, 10-Bit Data Acquisition System	8-Dip	17.50	11.65	9.90
LTC1092CN8#PBF-ND	Single Chip 1-Channel, 10-Bit Data Acquisition System*	8-Dip	17.50	11.65	9.90
LTC1093CN-ND	Single Chip 6-Channel, 10-Bit Data Acquisition System	16-Dip	17.50	11.65	9.90
LTC1093CN#PBF-ND	Single Chip 6-Channel, 10-Bit Data Acquisition System*	16-Dip	17.50	11.65	9.90
LTC1094CN-ND	Single Chip 8-Channel, 10-Bit Data Acquisition System	20-Dip	17.50	11.65	9.90
LTC1094CN#PBF-ND	Single Chip 8-Channel, 10-Bit Data Acquisition System*	20-Dip	17.50	11.65	9.90
LTC1096ACS8-ND	Micropower Sampling 8-Bit Serial In/Out ADC	8-SOIC	6.75	4.50	3.60
LTC1096CS8-ND	Micropower Sampling 8-Bit Serial In/Out ADC	8-SOIC	5.50	3.70	2.90
LTC1096CS8#PBF-ND	Micropower Sampling 8-Bit Serial In/Out ADC*	8-SOIC	5.50	3.70	2.90

** RoHS Compliant*

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1098CN8#PBF-ND	Micropower Sampling 8-Bit Serial In/Out ADC*	8-Dip	5.50	3.70	2.90
LTC1098CS8-ND	Micropower Sampling 8-Bit Serial In/Out ADC	8-SOIC	5.50	3.70	2.90
LTC1098CS8#PBF-ND	Micropower Sampling 8-Bit Serial In/Out ADC*	8-SOIC	5.50	3.70	2.90
LTC1099CN-ND	8-Bit, High Speed ADC with Sample and Hold	20-Dip	14.88	9.90	8.25
LTC1099CN#PBF-ND	8-Bit, High Speed ADC with Sample and Hold*	20-Dip	14.88	9.90	8.25
LTC1099CSW-ND	8-Bit, High Speed ADC with Sample and Hold	20-SOIC	19.38	12.90	10.70
LTC1099CSW#PBF-ND	8-Bit, High Speed ADC with Sample and Hold*	20-SOIC	19.38	12.90	10.70
LTC1196-2BCS8-ND	8-Bit, 710nS, 1MHz, Sampling ADC	8-SOIC	4.38	2.91	2.50
LTC1196-2BCS8#PBF-ND	8-Bit, 710nS, 1MHz, Sampling ADC*	8-SOIC	4.38	2.91	2.50
LTC1197CS8-ND	10-Bit, 250kHz ADC with Shutdown	8-SOIC	4.88	3.24	2.60
LTC1197CS8#PBF-ND	10-Bit, 250kHz ADC with Shutdown*	8-SOIC	4.88	3.24	2.60
LTC1197IS8-ND	10-Bit, 250kHz ADC with Shutdown, Ind. Temp.	8-SOIC	5.25	3.49	2.80
LTC1197IS8#PBF-ND	10-Bit, 250kHz ADC w/Shutdown, Ind. Temp.*	8-SOIC	5.25	3.49	2.80
LTC1197LCS8-ND	3V, 10-Bit, 250kHz ADC with Shutdown	8-SOIC	4.88	3.24	2.60
LTC1197LCS8#PBF-ND	3V, 10-Bit, 250kHz ADC with Shutdown*	8-SOIC	4.88	3.24	2.60
LTC1197LIS8#PBF-ND	3V, 10-Bit, 250kHz ADC with SD, Ind. Temp.*	8-SOIC	5.25	3.49	2.80
LTC1198-2BCS8-ND	2-Channel, 8-Bit, 750kHz Sampling ADC	8-SOIC	5.25	3.50	3.00
LTC1198-2BCS8#PBF-ND	2-Channel, 8-Bit, 750kHz Sampling ADC*	8-SOIC	5.25	3.50	3.00
LTC1199CMS8-ND	10-Bit ADC 210kHz with Shutdown	8-MSOP	5.50	3.66	2.95
LTC1199CS8#PBF-ND	10-Bit ADC 210kHz with Shutdown*	8-SOIC	4.88	3.24	2.60
LTC1199IMS8-ND	10-Bit ADC 450kHz with Shutdown	8-MSOP	6.13	4.07	3.25
LTC1199LIMS8-ND	10-Bit ADC with Shutdown	8-MSOP	6.13	4.07	3.25
LTC1199LIMS8#PBF-ND	10-Bit ADC with Shutdown*	8-MSOP	6.13	4.07	3.25
LTC1272-3ACSW-ND	12-Bit, 3µS, 250kHz Sampling ADC	24-SOIC	35.00	23.35	18.76
LTC1272-3CCSW-ND	12-Bit, 3µS, 250kHz Sampling ADC	24-SOIC	22.75	15.15	12.15
LTC1272-8CCN-ND	12-Bit, 8µS, 250kHz Sampling ADC	24-Dip	15.00	10.00	8.00
LTC1272-8CCN#PBF-ND	12-Bit, 8µS, 250kHz Sampling ADC*	24-Dip	15.00	10.00	8.00
LTC1273BCN#PBF-ND	12-Bit, 2.7µS, Sampling ADC*	24-Dip	23.50	15.65	12.55
LTC1273BCSW-ND	12-Bit, 2.7µS, Sampling ADC	24-SOIC	25.88	17.25	13.80
LTC1273BCSW#PBF-ND	12-Bit, 2.7µS, Sampling ADC*	24-SOIC	25.88	17.25	13.80
LTC1274CSW-ND	12-Bit, 100ksps ADC with Shutdown	24-SOIC	14.88	9.90	8.25
LTC1274CSW#PBF-ND	12-Bit, 100ksps ADC with Shutdown*	24-SOIC	14.88	9.90	8.25
LTC1275BCN-ND	12-Bit, 2.7µS, Sampling ADC	24-Dip	22.00	14.65	11.75
LTC1278-4CN#PBF-ND	12-Bit, 400ksps, Sampling ADC with Shutdown*	24-Dip	24.00	16.00	12.85
LTC1278-4ISW-ND	12-Bit, 400ksps, Sampling ADC with Shutdown	24-SOIC	27.50	18.35	14.70
LTC1278-4ISW#PBF-ND	12-Bit, 400ksps, Sampling ADC w/Shutdown*	24-SOIC	27.50	18.35	14.70
LTC1278-5CSW#PBF-ND	12-Bit, 500ksps, Sampling ADC w/Shutdown*	24-SOIC	25.63	17.10	14.65
LTC1278-5ISW-ND	12-Bit, 500ksps, Sampling ADC with Shutdown	24-SOIC	29.38	19.60	15.70
LTC1279CG-ND	12-Bit, 600ksps, Sampling ADC w/Shutdown	24-SSOP	25.88	17.19	14.20
LTC1279CSW-ND	12-Bit, 600ksps, Sampling ADC with Shutdown	24-SOIC	25.50	16.94	13.95
LTC1279CSW#PBF-ND	12-Bit, 600ksps, Sampling ADC w/Shutdown*	24-SOIC	25.50	16.94	13.95
LTC1282BCSW-ND	3V, 12-Bit, Sampling ADC with Reference	24-SOIC	28.13	18.75	14.75
LTC1285CN8#PBF-ND	3V, 12-Bit, Micropower Sampling ADC*	8-Dip	11.88	7.90	6.50
LTC1285CS8#PBF-ND	3V, 12-Bit, Micropower Sampling ADC*	8-SOIC	12.50	8.35	6.95
LTC1286CN8#PBF-ND	12-Bit, Micropower Sampling ADC*	8-Dip	9.88	6.60	5.25
LTC1286CS8#PBF-ND	12-Bit, Micropower Sampling ADC*	8-SOIC	10.63	7.10	5.65
LTC1286IS8#PBF-ND	12-Bit, Micropower Sampling ADC*	8-SOIC	13.25	8.85	7.05
LTC1288CN8#PBF-ND	3V, 12-Bit, MPU Serial In/Out Sampling ADC*	8-Dip	11.88	7.90	6.50
LTC1288CS8#PBF-ND	3V, 12-Bit, MPU Serial In/Out Sampling ADC*	8-SOIC	12.50	8.35	6.95
LTC1290BCSW-ND	12-Bit, Data Acquisition System	20-SOIC	45.00	30.00	23.96
LTC1290CCN#PBF-ND	12-Bit, Data Acquisition System*	20-Dip	30.00	20.00	15.95
LTC1290CCSW#PBF-ND	12-Bit, Data Acquisition System*	20-SOIC	36.00	24.00	19.15
LTC1290CIN#PBF-ND	12-Bit, Data Acquisition System, Ind. Temp.*	20-Dip	42.38	28.25	23.35
LTC1290CISW#PBF-ND	12-Bit, Data Acquisition System, Ind. Temp.*	20-SOIC	42.38	28.25	23.35
LTC1290DCN-ND	12-Bit, Data Acquisition System	20-Dip	12.50	8.35	6.70
LTC1290DCN#PBF-ND	12-Bit, Data Acquisition System*	20-Dip	12.50	8.35	6.70
LTC1290DCSW#PBF-ND	12-Bit, Data Acquisition System*	20-SOIC	21.75	14.50	11.35
LTC1291CCN8-ND	12-Bit, Data Acquisition System	8-Dip	28.13	18.75	15.00
LTC1291CCN8#PBF-ND	12-Bit, Data Acquisition System*	8-Dip	28.13	18.75	15.00
LTC1291DCN8#PBF-ND	12-Bit, Data Acquisition System*	8-Dip	18.13	12.10	9.50
LTC1292CCN8#PBF-ND	12-Bit, Data Acquisition System*	8-Dip	28.13	18.75	15.00
LTC1292DCN8#PBF-ND	12-Bit, Data Acquisition System*	8-Dip	18.13	12.10	9.50
LTC1293BCSW-ND	12-Bit, Data Acquisition System	16-SOIC	45.00	30.00	23.96
LTC1293CCN#PBF-ND	12-Bit, Data Acquisition System*	16-Dip	30.00	20.00	15.95
LTC1293DCN#PBF-ND	12-Bit, Data Acquisition System*	16-Dip	18.13	12.10	9.50
LTC1293DCSW#PBF-ND	12-Bit, Data Acquisition System*	16-SOIC	21.75	14.50	11.35
LTC1294BCSW-ND	12-Bit, Data Acquisition System	20-SOIC	45.00	30.00	23.96
LTC1294CCSW-ND	12-Bit, Data Acquisition System	20-SOIC	36.00	24.00	19.15
LTC1294DCN#PBF-ND	12-Bit, Data Acquisition System*	20-Dip	18.13	12.10	9.50
LTC1294DCSW-ND	12-Bit, Data Acquisition System	20-SOIC	21.75	14.50	11.35
LTC1294DCSW#PBF-ND	12-Bit, Data Acquisition System*	20-SOIC	21.75	14.50	11.35
LTC1296BCN#PBF-ND	12-Bit, Data Acquisition System*	20-Dip	24.38	16.25	13.00
LTC1296BCSW-ND	12-Bit, Data Acquisition System	20-SOIC	25.00	16.65	13.35
LTC1296BCSW#PBF-ND	12-Bit, Data Acquisition System*	20-SOIC	25.00	16.65	13.35
LTC1296CCSW#PBF-ND	12-Bit, Data Acquisition System*	20-SOIC	17.88	11.90	9.50
LTC1296DCN#PBF-ND	12-Bit, Data Acquisition System*	20-Dip	15.88	10.60	8.45
LTC1296DCSW#PBF-ND	12-Bit, Data Acquisition System*	20-SOIC	16.25	10.85	8.65
LTC1297DCN8-ND	12-Bit, Data Acquisition System	8-Dip	21.75	14.50	11.40
LTC1297DCN8#PBF-ND	12-Bit, Data Acquisition System*	8-Dip	21.75	14.50	11.40
LTC1298CN8-ND	12-Bit, Sampling ADC	8-Dip	9.88	6.60	5.25
LTC1298CN8#PBF-ND	12-Bit, Sampling ADC*	8-Dip	9.88	6.60	5.25
LTC1298CS8-ND	12-Bit, Sampling ADC	8-SOIC	10.63	7.10	5.65
LTC1298CS8#PBF-ND	12-Bit, Sampling ADC*	8-SOIC	10.63	7.10	5.65
LTC1298IN8#PBF-ND	12-Bit, Sampling ADC, Ind. Temp*	8-Dip	12.38	8.25	6.55
LTC1298IS8#PBF-ND	12-Bit, Sampling ADC, Ind. Temp*	8-SOIC	13.25	8.85	7.05
LTC1392CN8#PBF-ND	10-Bit Micropower Data Acquisition System*	8-Dip	7.50	5.00	4.10
LTC1392CS8-ND	10-Bit Micropower Data Acquisition System	8-SOIC	7.63	5.10	4.20
LTC1400CS8#PBF-ND	12-Bit, 400ksps ADC with Shutdown*	8-SOIC	10.00	6.64	5.25
LTC1400IS8-ND	12-Bit, 400ksps ADC with Shutdown, Ind. Temp	8-SOIC	11.13	7.39	5.85
LTC1400IS8#PBF-ND	12-Bit, 400ksps ADC w/Shutdown, Ind. Temp*	8-SOIC	11.13	7.39	5.85
LTC1401IS8#PBF-ND	12-Bit, 200ksps ADC with Shutdown*	8-SOIC	7.75	5.15	4.05
LTC1403ACMSE#PBF-ND	14-Bit, 2.8Msps Sampling ADC*	10-MSOP	14.00	10.00	8.24
LTC1403ACMSE-1#PBF-ND	14-Bit, 2.8Msps Sampling ADC*	10-MSOP	14.00	10.00	8.24
LTC1403AIMSE#PBF-ND	14-Bit, 2.8Msps Sampling ADC*	10-MSOP	16.00	11.43	9.41
LTC1403AIMSE-1#PBF-ND	14-Bit, 2.8Msps Sampling ADC*	10-MSOP	16.00	11.43	9.41
LTC1403CMSE#PBF-ND	12-Bit, 2.8Msps Sampling ADC*	10-MSOP	8.00	5.71	4.71
LTC1403CMSE-1#PBF-ND	12-Bit, 2.8Msps Sampling ADC*	10-MSOP	8.00	5.71	4.71
LTC1403IMSE#PBF-ND	12-Bit, 2.8Msps Sampling ADC*	10-MSOP	9.13	6.52	5.37
LTC1403IMSE-1#PBF-ND	12-Bit, 2.8Msps Sampling ADC*	10-MSOP	9.13	6.52	5.37
LTC1404CS8-ND	12-Bit, 600ksps ADC with Shutdown	8-SOIC	10.50	6.98	5.50

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1404CS8#PBF-ND	12-Bit, 600ksps ADC with Shutdown*	8-SOIC	10.50	6.98	5.50
LTC1404IS8#PBF-ND	12-Bit, 600ksps ADC w/Shutdown, Ind. Temp*	8-SOIC	11.50	7.64	6.05
LTC1407ACMSE#PBF-ND	14-Bit, 3Msps Simultaneous Sampling ADC*	10-MSOP	14.00	10.00	8.24
LTC1407ACMSE-1#PBF-ND	14-Bit, 3Msps Simultaneous Sampling ADC	10-MSOP	14.00	10.00	8.24
LTC1407AIMSE#PBF-ND	14-Bit, 3Msps Simultaneous Sampling ADC*	10-MSOP	16.00	11.43	9.41
LTC1407AIMSE-1#PBF-ND	14-Bit, 3Msps Simultaneous Sampling ADC*	10-MSOP	16.00	11.43	9.41
LTC1407CMSE#PBF-ND	12-Bit, 3Msps Simultaneous Sampling ADC*	10-MSOP	8.00	5.71	4.71
LTC1407CMSE-1#PBF-ND	12-Bit, 3Msps Simultaneous Sampling ADC*	10-MSOP	8.00	5.71	4.71
LTC1407IMSE#PBF-ND	12-Bit, 3Msps Simultaneous Sampling ADC*	10-MSOP	9.13	6.52	5.37
LTC1407IMSE-1#PBF-ND	12-Bit, 3Msps Simultaneous Sampling ADC*	10-MSOP	9.13	6.52	5.37
LTC1408CUH#PBF-ND	14-Bit, 600ksps ADC with Shutdown*	32-QFN	18.35	13.11	10.79
LTC1408CUH-12#PBF-ND	12-Bit, 600ksps ADC with Shutdown*	32-QFN	11.58	8.27	6.81
LTC1408IUH#PBF-ND	14-Bit, 600ksps ADC w/Shutdown, Ind. Temp*	32-QFN	22.03	15.73	12.96
LTC1408IUH-12#PBF-ND	12-Bit, 600ksps ADC w/Shutdown, Ind. Temp*	32-QFN	13.90	9.93	8.18
LTC1410CSW#PBF-ND	12-Bit, 1.25Msps Sampling ADC, Ind. Temp*	28-SOIC	21.25	14.11	10.65
LTC1411CG-ND	Single 14-Bit, 2.5Msps ADC	36-SSOP	38.25	25.50	21.85
LTC1411IG-ND	Single 14-Bit, 2.5Msps ADC	36-SSOP	42.50	28.35	24.30
LTC1412CG#PBF-ND	12-Bit, 3Msps Sampling ADC*	28-SSOP	21.38	14.20	10.69
LTC1414CGN-ND	14-Bit, 2.2Msps Sampling ADC	28-SSOP	34.00	22.65	18.15
LTC1414CGN#PBF-ND	14-Bit, 2.2Msps Sampling ADC*	28-SSOP	34.00	22.65	18.15
LTC1415CG#PBF-ND	12-Bit, 1.25Msps Sampling ADC*	28-SSOP	22.25	14.78	11.15
LTC1415CSW#PBF-ND	12-Bit, 1.25Msps Sampling ADC*	28-SOIC	21.25	14.11	10.65
LTC1415IG#PBF-ND	12-Bit, 1.25Msps Sampling ADC, Ind. Temp*	28-SSOP	24.25	16.11	12.15
LTC1415ISW-ND	12-Bit, 1.25Msps Sampling ADC, Ind. Temp.	28-SOIC	23.25	15.44	11.65
LTC1415ISW#PBF-ND	12-Bit, 1.25Msps Sampling ADC, Ind. Temp*	28-SOIC	23.25	15.44	11.65
LTC1416CG#PBF-ND	14-Bit, 400ksps Sampling ADC, Ind. Temp*	28-SSOP	14.75	9.80	7.40
LTC1416IG#PBF-ND	14-Bit, 400ksps Sampling ADC, Ind. Temp*	28-SSOP	15.75	10.46	7.88
LTC1417ACGN#PBF-ND	14-Bit, 400ksps Sampling ADC*	16-SSOP	20.00	13.28	10.00
LTC1417CGN-ND	14-Bit, 400ksps Sampling ADC	16-SSOP	16.25	10.79	8.15
LTC1417CGN#PBF-ND	14-Bit, 400ksps Sampling ADC*	16-SSOP	16.25	10.79	8.15
LTC1417IGN#PBF-ND	14-Bit, 400ksps Sampling ADC*	16-SSOP	17.88	11.87	8.95
LTC1418ACG#PBF-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O*	28-SSOP	22.25	14.78	11.15
LTC1418AIG-ND	14-Bit, 200ksps ADC, S/P I/O, Ind. Temp.	28-SSOP	23.88	15.86	11.95
LTC1418CG-ND	14-Bit, 200ksps ADC, S/P I/O, Ind. Temp.	28-SSOP	17.25	11.46	8.65
LTC1418CG#PBF-ND	14-Bit, 200ksps ADC, S/P I/O, Ind. Temp*	28-SSOP	17.25	11.46	8.65
LTC1418CN-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O	28-Dip	16.75	11.13	8.40
LTC1418CN#PBF-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O*	28-Dip	16.75	11.13	8.40
LTC1418IN-ND	14-Bit, 200ksps ADC, S/P I/O, Ind. Temp.	28-Dip	18.38	12.21	9.20
LTC1419ACG#PBF-ND	14-Bit, 800ksps Sampling ADC*	28-SSOP	54.38	36.11	27.20
LTC1419ACSW#PBF-ND	14-Bit, 800ksps Sampling ADC*	28-SOIC	53.50	35.53	26.75
LTC1419CG-ND	14-Bit, 800ksps Sampling ADC	28-SSOP	32.50	21.58	16.25
LTC1419CG#PBF-ND	14-Bit, 800ksps Sampling ADC*	28-SSOP	32.50	21.58	16.25
LTC1419CSW#PBF-ND	14-Bit, 800ksps Sampling ADC*	28-SOIC	32.25	21.42	16.13
LTC1419IG#PBF-ND	14-Bit, 800ksps Sampling ADC, Ind. Temp*	28-SSOP	36.25	24.07	18.15
LTC1594CS#PBF-ND	4-Channel, 12-Bit, 5V, Sampling Serial ADC*	16-SOIC	11.25	7.47	6.00
LTC1594IS#PBF-ND	4-Channel, 12-Bit, 5V, Sampling Serial ADC*	16-SOIC	13.00	8.64	6.95
LTC1598CG-ND	8-Channel, 12-Bit, 5V, Sampling Serial ADC	24-SSOP	11.50	7.64	6.20
LTC1598CG#PBF-ND	8-Channel, 12-Bit, 5V, Sampling Serial ADC*	24-SSOP	11.50	7.64	6.20
LTC1598IG-ND	8-Channel, 12-Bit, 5V, Sampling Serial ADC	24-SSOP	13.25	8.80	7.10
LTC1598IG#PBF-ND	8-Channel, 12-Bit, 5V, Sampling Serial ADC*	24-SSOP	13.25	8.80	7.10
LTC1598LCG-ND	8-Channel, 12-Bit, 5V, Sampling Serial ADC	24-SSOP	11.63	7.75	6.45
LTC1598LCG#PBF-ND	8-Channel, 12-Bit, 5V, Sampling Serial ADC*	24-SSOP	11.63	7.75	6.45
LTC1604AIG#PBF-ND	16-Bit, 333ksps Sampling ADC w/Shutdown*	36-SSOP	63.13	41.92	31.57
LTC1604CG#PBF-ND	16-Bit, 333ksps Sampling ADC w/Shutdown*	36-SSOP	44.50	29.55	22.25
LTC1605ACG-ND	16-Bit, 100ksps Sampling ADC	28-SSOP	49.63	32.96	24.85
LTC1605ACG#PBF-ND	16-Bit, 100ksps Sampling ADC*	28-SSOP	49.63	32.96	24.85
LTC1605AIG-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp.	28-SSOP	51.00	33.87	25.50
LTC1605AISW#PBF-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp*	28-SOIC	51.00	33.87	25.50
LTC1605CN#PBF-ND	16-Bit, 100ksps Sampling ADC*	28-Dip	36.13	23.99	18.07
LTC1605CSW#PBF-ND	16-Bit, 100ksps Sampling ADC*	28-SOIC	36.13	23.99	18.07
LTC1605IN-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp.	28-Dip	38.25	25.40	19.15
LTC1605IN#PBF-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp*	28-Dip	38.25	25.40	19.15
LTC1605ISW#PBF-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp*	28-SOIC	38.25	25.40	19.15
LTC1605-1CG#PBF-ND	16-Bit, 100ksps Sampling ADC*	28-SSOP	36.88	24.49	18.71
LTC1605-2CG-ND	16-Bit, 100ksps Sampling ADC	28-SSOP	36.88	24.49	18.71
LTC1605-2CG#PBF-ND	16-Bit, 100ksps Sampling ADC*	28-SSOP	36.88	24.49	18.71
LTC1608ACG#PBF-ND	16-Bit, 500ksps Sampling ADC w/Shutdown*	36-SSOP	49.13	32.62	25.20
LTC1608CG#PBF-ND	16-Bit, 500ksps Sampling ADC w/Shutdown*	36-SSOP	35.00	23.24	17.50
LTC1609CSW#PBF-ND	16-Bit, 200ksps Serial Sampling ADC*	20-SOIC	31.75	21.09	15.88
LTC1609IG#PBF-ND	16-Bit, 200ksps Sampling ADC, Ind. Temp*	28-SSOP	35.00	23.24	17.50
LTC1609ISW#PBF-ND	16-Bit, 200ksps Serial Sampling ADC*	20-SOIC	35.00	23.24	17.50
LTC1851CFW-ND	8-Channel, 12-Bit, 1.25Msps Sampling ADC	48-TSSOP	14.63	9.72	7.85
LTC1851CFW#PBF-ND	8-Ch., 12-Bit, 1.25Msps Sampling ADC*	48-TSSOP	14.63	9.72	7.85
LTC1853CFW-ND	8-Channel, 12-Bit, 400ksps, Low Power ADC	48-TSSOP	14.63	9.72	7.85
LTC1853CFW#PBF-ND	8-Ch., 12-Bit, 400ksps, Low Power ADC*	48-TSSOP	14.63	9.72	7.85
LTC1856CG#PBF-ND	8-Ch., 16-Bit, 100ksps, Low Power ADC*	28-SSOP	26.55	18.96	15.62
LTC1856IG#PBF-ND	8-Ch., 16-Bit, 100ksps, Low Power ADC*	28-SSOP	31.85	22.76	18.74
LTC1860CMS8#PBF-ND	1-Channel, 12-Bit, 250ksps ADC*	8-MSOP	4.88	3.24	2.65
LTC1860CS8#PBF-ND	1-Channel, 12-Bit, 250ksps ADC*	8-SOIC	4.75	3.16	2.60
LTC1860LCS8-ND	3V, 1-Channel, 12-Bit, 150ksps ADC	8-SOIC	5.50	3.66	3.00
LTC1861CMS-ND	2-Channel, 12-Bit, 250ksps ADC	10-MSOP	6.25	4.15	3.50
LTC1861CMS#PBF-ND	2-Channel, 12-Bit, 250ksps ADC*	10-MSOP	6.25	4.15	3.50
LTC1861CS8#PBF-ND	2-Channel, 12-Bit, 250ksps ADC*	8-SOIC	5.88	3.91	3.25
LTC1861LCMS-ND	3V, 2-Channel, 12-Bit, 150ksps ADC	10-MSOP	5.63	3.74	3.05
LTC1861LCMS#PBF-ND	3V, 2-Channel, 12-Bit, 150ksps ADC*	10-MSOP	5.63	3.74	3.05
LTC1864ACMS8-ND	1-Channel, 16-Bit, 250ksps ADC	8-MSOP	15.00	9.96	8.05
LTC1864ACMS8#PBF-ND	1-Channel, 16-Bit, 250ksps ADC*	8-MSOP	15.00	9.96	8.05
LTC1864ACS8#PBF-ND	1-Channel, 16-Bit, 250ksps ADC*	8-SOIC	14.38	9.55	7.70
LTC1864AIMS8#PBF-ND	1-Channel, 16-Bit, 250ksps ADC*	8-MSOP	15.63	10.38	8.40
LTC1864CMS8-ND	1-Channel, 16-Bit, 250ksps ADC	8-MSOP	12.88	8.55	6.90
LTC1864CMS8#PBF-ND	1-Channel, 16-Bit, 250ksps ADC*	8-MSOP	12.88	8.55	6.90
LTC1864CS8#PBF-ND	1-Channel, 16-Bit, 250ksps ADC*	8-SOIC	12.38	8.22	6.65
LTC1865ACMS#PBF-ND	2-Channel, 16-Bit, 250ksps ADC*	10-MSOP	15.38	10.21	8.55
LTC1865ACS8#PBF-ND	2-Channel, 16-Bit, 250ksps ADC*	8-SOIC	14.75	9.80	8.20
LTC1865CMS#PBF-ND	2-Channel, 16-Bit, 250ksps ADC*	10-MSOP	13.38	8.89	7.45
LTC1865CS8-ND	2-Channel, 16-Bit, 250ksps ADC	8-SOIC	12.88	8.55	7.15
LTC1865CS8#PBF-ND	2-Channel, 16-Bit, 250ksps ADC*	8-SOIC	12.88	8.55	7.15
LTC1865LCMS#PBF-ND	2-Channel, 16-Bit, 150ksps ADC*	10-MSOP	13.38	8.89	7.45

** RoHS Compliant*

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Delta Sigma ADC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC2400CS8#PBF-ND	24-Bit, Micropower ADC*	8-SOIC	10.63	7.10	6.05
LTC2400IS8-ND	24-Bit, Micropower ADC, Ind. Temp.	8-SOIC	12.13	8.10	6.95
LTC2400IS8#PBF-ND	24-Bit, Micropower ADC, Ind. Temp.*	8-SOIC	12.13	8.10	6.95
LTC2402CMS#PBF-ND	24-Bit, 2 Channel Micropower No Latency Delta Sigma ADC*	10-MSOP	10.88	7.23	5.95
LTC2408CG#PBF-ND	24-Bit, 8-Channel Micropower ADC*	28-SSOP	12.13	8.10	6.95
LTC2410CGN#PBF-ND	24-Bit, No Latency Delta Sigma ADC with Differential Input/Reference*	16-SSOP	10.63	7.10	6.05
LTC2411CMS#PBF-ND	24-Bit, No Latency Delta Sigma ADC with Differential Input/Reference*	10-MSOP	10.63	7.10	6.05
LTC2411CMSTR-ND	24-Bit, No Latency Delta Sigma ADC with Differential Input/Reference	10-MSOP	15249.95/2,500		
LTC2411IMS#PBF-ND	24-Bit, No Latency Delta Sigma ADC with Differential Input/Reference*	10-MSOP	12.13	8.10	6.95
LTC2411IMSTR-ND	24-Bit, No Latency Delta Sigma ADC with Differential Input/Reference	10-MSOP	17499.98/2,500		
LTC2411-1CMS-ND	24-Bit, No Latency Delta Sigma ADC with Differential Input/Reference	10-MSOP	10.63	7.10	6.05
LTC2412CGN-ND	24-Bit, No Latency Delta Sigma ADC 2-Channel Differential Input	16-SSOP	9.50	6.31	5.05
LTC2412CGN#PBF-ND	24-Bit, No Latency Delta Sigma ADC 2-Channel Differential Input*	16-SSOP	9.50	6.31	5.05
LTC2413CGN#PBF-ND	24-Bit, Micropower ADC*	16-SSOP	10.63	7.10	6.05
LTC2413IGN#PBF-ND	24-Bit, Micropower ADC, Ind. Temp*	16-SSOP	12.13	8.10	6.95
LTC2414CGN#PBF-ND	8-Channel, Differential Input, 24-Bit No Latency Delta Sigma ADC*	28-SSOP	12.13	8.10	6.95
LTC2415CGN-ND	24-Bit No Latency Delta Sigma ADC with Differential Input/Reference	16-SSOP	10.63	7.10	6.05
LTC2415CGN#PBF-ND	24-Bit No Latency Delta Sigma ADC with Differential Input/Reference*	16-SSOP	10.63	7.10	6.05
LTC2415-1CGN#PBF-ND	24-Bit No Latency Delta Sigma ADC with Differential Input/Reference*	16-SSOP	10.63	7.10	6.05
LTC2415IGN-ND	24-Bit No Latency Delta Sigma ADC with Differential Input/Reference	16-SSOP	12.13	8.10	6.95
LTC2415IGN#PBF-ND	24-Bit No Latency Delta Sigma ADC with Differential Input/Reference*	16-SSOP	12.13	8.10	6.95
LTC2418CGN#PBF-ND	16-Channel, Differential Input, 24-Bit No Latency Delta Sigma ADC*	28-SSOP	13.50	9.00	7.70
LTC2418IGN#PBF-ND	16-Channel, Differential Input, 24-Bit No Latency Delta Sigma ADC*	28-SSOP	14.88	9.90	8.50
LTC2420CS8#PBF-ND	20-Bit, MPU No Latency Delta Sigma ADC*	8-SOIC	8.25	5.48	4.50
LTC2422CMS-ND	2-Channel, 20-Bit, Micropower No Latency Delta Sigma ADC	10-MSOP	8.75	5.81	4.80
LTC2422CMS#PBF-ND	2-Channel, 20-Bit, Micropower No Latency Delta Sigma ADC*	10-MSOP	8.75	5.81	4.80
LTC2422IMS#PBF-ND	2-Channel, 20-Bit, Micropower, No Latency Delta Sigma ADC*	10-MSOP	9.75	6.48	5.40
LTC2424CG#PBF-ND	4-Channel, 20-Bit, Micropower, No Latency Delta Sigma ADC*	28-SSOP	9.25	6.15	5.10
LTC2431CMS-ND	20-Bit, No Latency Delta Sigma ADC with Differential Input/Reference	10-MSOP	7.38	4.90	3.95
LTC2431CMS#PBF-ND	20-Bit, No Latency Delta Sigma ADC with Differential Input/Reference*	10-MSOP	7.38	4.90	3.95
LTC2433-1CMS-ND	16-Bit, No Latency Delta Sigma ADC with Differential Input/Reference	10-MSOP	3.88	2.60	2.20
LTC2433-1CMS#PBF-ND	16-Bit, No Latency Delta Sigma ADC with Differential Input/Reference*	10-MSOP	3.88	2.60	2.20
LTC2436-1CGN-ND	16-Bit, No Latency Delta Sigma ADC 2-Channel Differential Input	16-SSOP	4.88	3.24	2.60
LTC2436-1CGN#PBF-ND	16-Bit, No Latency Delta Sigma ADC 2-Channel Differential Input*	16-SSOP	4.88	3.24	2.60
LTC2440CGN#PBF-ND	24-Bit High Speed Differential Delta Sigma ADC with Selectable Speed/Resolution*	16-SSOP	11.13	7.39	6.20
LTC2440IGN#PBF-ND	24-Bit High Speed Differential Delta Sigma ADC with Selectable Speed/Resolution*	16-SSOP	12.63	8.39	6.95
LTC2442CG#PBF-ND	24-Bit High Speed 4-Channel Delta Sigma ADC with Integrated Amp*	36-SSOP	14.90	10.64	8.76
LTC2442IG#PBF-ND	24-Bit High Speed 4-Channel Delta Sigma ADC with Integrated Amp*	36-SSOP	17.88	12.77	10.51
LTC2449CUHF#PBF-ND	24-Bit High Speed 16-Channel Delta Sigma ADC with Selectable Speed/Resolution*	38-QFN	14.25	9.47	7.60
LTC2480CDD#PBF-ND	16-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation*	10-DFN	3.70	2.64	2.18
LTC2480IDD#PBF-ND	16-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation*	10-DFN	4.45	3.18	2.62
LTC2481CDD#PBF-ND	16-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation and I^{2}C Interface*	10-DFN	3.70	2.64	2.18
LTC2481IDD#PBF-ND	16-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation and I^{2}C Interface*	10-DFN	4.45	3.18	2.62
LTC2482CDD#PBF-ND	16-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation*	10-DFN	3.30	2.36	1.94
LTC2482IDD#PBF-ND	16-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation*	10-DFN	3.95	2.82	2.32
LTC2483CDD#PBF-ND	16-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation and I^{2}C Interface*	10-DFN	3.30	2.36	1.94
LTC2483IDD#PBF-ND	16-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation and I^{2}C Interface*	10-DFN	3.95	2.82	2.32
LTC2484CDD#PBF-ND	24-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation*	10-DFN	4.90	3.50	2.88
LTC2484IDD#PBF-ND	24-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation*	10-DFN	5.88	4.20	3.46
LTC2485CDD#PBF-ND	24-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation and I^{2}C Interface*	10-DFN	4.90	3.50	2.88
LTC2485IDD#PBF-ND	24-Bit Delta Sigma ADC with Easy Drive Input Current Cancellation and I^{2}C Interface*	10-DFN	5.88	4.20	3.46
LTC2487IDE#PBF-ND	16-Bit, 2/4-Channel Delta Sigma ADC with PGA, Easy Drive and I^{2}C Interface*	14-DFN	5.78	4.13	3.40
LTC2488IDE#PBF-ND	16-Bit, 2/4-Channel Delta Sigma ADC with Easy Drive Input Current Cancellation*	14-DFN	5.30	3.78	3.11
LTC2489IDE#PBF-ND	16-Bit, 2/4-Channel Delta Sigma ADC with Easy Drive Input Current Cancellation/I^{2}C Interface*	14-DFN	5.30	3.78	3.11
LTC2492CDE#PBF-ND	24-Bit, 2/4-Channel Delta Sigma ADC with Easy Drive Input Current Cancellation*	14-DFN	6.05	4.32	3.56
LTC2493IDE#PBF-ND	24-Bit, 2/4-Channel Delta Sigma ADC with Easy Drive Input Current Canellation/I^{2}C Interface*	14-DFN	7.25	5.18	4.26
LTC2494IUHF#PBF-ND	16-Bit, 8/16-Channel Delta Sigma ADC with PGA and Easy Drive Input Current Cancellation*	38-QFN	7.00	5.01	4.12
LTC2495IUHF#PBF-ND	16-Bit, 8/16-Channel Delta Sigma ADC with PGA, Easy Drive and I^{2}C Interface*	38-QFN	7.00	5.01	4.12
LTC2497CUHF#PBF-ND	16-Bit, 8/16-Channel Delta Sigma ADC with Easy Drive Input Current Cancellation and I^{2}C Interface*	38-QFN	5.43	3.88	3.19
LTC2497IUHF#PBF-ND	16-Bit, 8/16-Channel Delta Sigma ADC with Easy Drive Input Current Cancellation and I^{2}C Interface*	38-QFN	6.53	4.66	3.84
LTC2498CUHF#PBF-ND	24-Bit, 8/16-Channel Delta Sigma ADC with Easy Drive Input Current Cancellation*	38-QFN	7.08	5.05	4.16
LTC2498IUHF#PBF-ND	24-Bit, 8/16-Channel Delta Sigma ADC with Easy Drive Input Current Cancellation*	38-QFN	8.48	6.05	4.99
LTC2499CUHF#PBF-ND	24-Bit, 8/16-Channel Delta Sigma ADC with Easy Drive Input Current Cancellation and I^{2}C Interface*	38-QFN	7.08	5.05	4.16
LTC2499IUHF#PBF-ND	24-Bit, 8/16-Channel Delta Sigma ADC with Easy Drive Input Current Cancellation and I^{2}C Interface*	38-QFN	8.48	6.05	4.99

High Speed ADC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1406CGN-ND	8-Bit, 20Msps Sampling ADC	24-SSOP	6.50	4.32	3.40
LTC1406IGN-ND	8-Bit, 20Msps Sampling ADC	24-SSOP	7.00	4.65	3.70
LTC1406IGN#PBF-ND	8-Bit, 20Msps Sampling ADC*	24-SSOP	7.00	4.65	3.70
LTC1740CG-ND	14-Bit, 6Msps Sampling ADC	36-SSOP	34.38	22.83	18.36
LTC1740CG#PBF-ND	14-Bit, 6Msps Sampling ADC*	36-SSOP	34.38	22.83	18.36
LTC1741CFW-ND	12-Bit, 65Msps Low Noise ADC	48-TSSOP	27.13	18.02	13.57
LTC1744CFW-ND	14-Bit, 50Msps ADC	48-TSSOP	53.13	35.28	28.36
LTC1744CFW#PBF-ND	14-Bit, 50Msps ADC*	48-TSSOP	53.13	35.28	28.36
LTC1745CFW-ND	12-Bit, 25Msps Low Noise ADC	48-TSSOP	18.63	12.37	9.95
LTC1746CFW#PBF-ND	14-Bit, 25Msps Low Power ADC*	48-TSSOP	25.50	16.94	13.60
LTC1747CFW-ND	12-Bit, 80Msps Low Noise ADC	48-TSSOP	41.50	27.56	20.75
LTC1748CFW-ND	14-Bit, 80Msps Low Noise ADC	48-TSSOP	68.63	45.57	34.32
LTC2202CUK#PBF-ND	16-Bit, 10Msps ADC*	48-QFN	50.00	35.71	29.41
LTC2202IUK#PBF-ND	16-Bit, 10Msps ADC*	48-QFN	60.00	42.86	35.30
LTC2203CUK#PBF-ND	16-Bit, 25Msps ADC*	48-QFN	60.00	42.86	35.30
LTC2203IUK#PBF-ND	16-Bit, 25Msps ADC*	48-QFN	72.00	51.43	42.36
LTC2204CUK#PBF-ND	16-Bit, 40Msps ADC*	48-QFN	70.00	50.00	42.18
LTC2204IUK#PBF-ND	16-Bit, 40Msps ADC*	48-QFN	84.00	60.00	49.42
LTC2205CUK#PBF-ND	16-Bit, 65Msps ADC*	48-QFN	86.65	61.89	50.97
LTC2205IUK#PBF-ND	16-Bit, 65Msps ADC*	48-QFN	104.00	74.29	61.18
LTC2206CUK#PBF-ND	16-Bit, 80Msps ADC*	48-QFN	96.65	69.04	56.85
LTC2206CUK-14#PBF-ND	14-Bit, 80Msps ADC*	48-QFN	66.00	47.41	38.82
LTC2206IUK#PBF-ND	16-Bit, 80Msps ADC*	48-QFN	116.00	82.86	68.24
LTC2206IUK-14#PBF-ND	14-Bit, 80Msps ADC*	48-QFN	79.20	56.57	46.59
LTC2207CUK#PBF-ND	16-Bit, 105Msps ADC*	48-QFN	113.35	80.96	66.69
LTC2207IUK#PBF-ND	16-Bit, 105Msps ADC*	48-QFN	136.00	97.14	80.01
LTC2208CUP#PBF-ND	16-Bit, 130Msps ADC*	64-QFN	130.00	92.86	76.48
LTC2208CUP-14#PBF-ND	14-Bit, 130Msps ADC*	64-QFN	110.00	78.57	64.71
LTC2208IUP#PBF-ND	16-Bit, 130Msps ADC*	64-QFN	156.00	111.43	91.76
LTC2209CUP#PBF-ND	16-Bit, 160Msps ADC*	64-QFN	145.00	103.57	85.30
LTC2209IUP#PBF-ND	16-Bit, 160Msps ADC	64-QFN	174.00	124.30	102.36
LTC2215CUP#PBF-ND	16-Bit, 65Msps ADC* ***NEW!***	64-QFN	110.50	74.29	63.15
LTC2216CUP#PBF-ND	16-Bit, 80Msps ADC* ***NEW!***	64-QFN	123.25	82.86	70.43
LTC2220CUP#PBF-ND	12-Bit, 185Msps ADC*	64-QFN	81.98	54.65	46.84
LTC2220CUP-1#PBF-ND	12-Bit, 185Msps ADC*	64-QFN	101.63	67.75	58.08
LTC2220IUP#PBF-ND	12-Bit, 185Msps ADC*	64-QFN	98.35	65.57	56.20
LTC2220IUP-1#PBF-ND	12-Bit, 185Msps ADC*	64-QFN	122.38	81.58	69.93
LTC2221CUP#PBF-ND	12-Bit, 135Msps ADC*	64-QFN	70.38	46.92	40.21
LTC2222CUK#PBF-ND	12-Bit, 105Msps ADC*	48-QFN	62.08	41.38	35.47
LTC2222IUK#PBF-ND	12-Bit, 105Msps ADC*	48-QFN	77.60	51.73	44.34
LTC2223CUK#PBF-ND	12-Bit, 80Msps ADC*	48-QFN	34.25	22.83	19.57
LTC2223IUK#PBF-ND	12-Bit, 80Msps ADC*	48-QFN	41.00	27.33	23.43
LTC2224CUK#PBF-ND	12-Bit, 135Msps ADC*	48-QFN	70.38	46.92	40.21
LTC2225CUH#PBF-ND	12-Bit, 10Msps Low Power 3V ADC*	32-QFN	9.25	6.17	5.29
LTC2225IUH#PBF-ND	12-Bit, 10Msps Low Power 3V ADC*	32-QFN	11.10	7.40	6.34
LTC2226CUH#PBF-ND	12-Bit, 25Msps Low Power 3V ADC*	32-QFN	15.20	10.13	8.69
LTC2226IUH#PBF-ND	12-Bit, 25Msps Low Power 3V ADC*	32-QFN	18.23	12.15	10.41
LTC2227CUH#PBF-ND	12-Bit, 40Msps Low Power 3V ADC*	32-QFN	16.05	10.70	9.17
LTC2227IUH#PBF-ND	12-Bit, 40Msps Low Power 3V ADC*	32-QFN	19.25	12.83	11.00
LTC2228CUH#PBF-ND	12-Bit, 65Msps Low Power 3V ADC*	32-QFN	24.78	16.52	14.16
LTC2228IUH#PBF-ND	12-Bit, 65Msps Low Power 3V ADC*	32-QFN	29.73	19.82	16.99
LTC2229CUH#PBF-ND	12-Bit, 80Msps Low Power 3V ADC*	32-QFN	34.25	22.83	19.57
LTC2229IUH#PBF-ND	12-Bit, 80Msps Low Power 3V ADC*	32-QFN	41.00	27.33	23.43
LTC2230CUP#PBF-ND	10-Bit, 170Msps Low Power 3.3V ADC*	64-QFN	60.60	40.39	34.63
LTC2230IUP#PBF-ND	10-Bit, 170Msps Low Power 3.3V ADC*	64-QFN	72.63	48.42	41.50
LTC2231CUP#PBF-ND	10-Bit, 135Msps Low Power 3.3V ADC*	64-QFN	41.50	27.67	23.71
LTC2232CUK#PBF-ND	10-Bit, 105Msps Low Power 3.3V ADC*	48-QFN	17.13	11.42	9.79
LTC2232IUK#PBF-ND	10-Bit, 105Msps Low Power 3.3V ADC*	48-QFN	20.50	13.67	11.71
LTC2233IUK#PBF-ND	10-Bit, 80Msps Low Power 3.3V ADC*	48-QFN	16.40	10.93	9.37
LTC2234CUK#PBF-ND	10-Bit, 135Msps Low Power 3.3V ADC*	48-QFN	41.50	27.67	23.71
LTC2234IUK#PBF-ND	10-Bit, 135Msps Low Power 3.3V ADC*	48-QFN	49.80	33.20	28.46
LTC2236CUH#PBF-ND	10-Bit, 25Msps Low Noise 3V ADC*	32-QFN	7.00	4.67	4.00
LTC2236IUH#PBF-ND	10-Bit, 25Msps Low Noise 3V ADC*	32-QFN	8.40	5.60	4.80
LTC2237CUH#PBF-ND	10-Bit, 40Msps Low Noise 3V ADC*	32-QFN	9.60	6.40	5.49
LTC2237IUH#PBF-ND	10-Bit, 40Msps Low Noise 3V ADC*	32-QFN	11.50	7.67	6.57
LTC2238CUH#PBF-ND	10-Bit, 65Msps Low Noise 3V ADC*	32-QFN	10.13	6.75	5.79
LTC2238IUH#PBF-ND	10-Bit, 65Msps Low Noise 3V ADC*	32-QFN	12.15	8.10	6.94
LTC2239CUH#PBF-ND	10-Bit, 80Msps Low Noise 3V ADC*	32-QFN	13.73	9.15	7.84
LTC2239IUH#PBF-ND	10-Bit, 80Msps Low Noise 3V ADC*	32-QFN	16.40	10.93	9.37
LTC2240CUP-10#PBF-ND	10-Bit, 170Msps ADC*	64-QFN	51.25	36.61	30.15
LTC2240IUP-10#PBF-ND	10-Bit, 170Msps ADC*	64-QFN	61.50	43.93	36.18
LTC2240CUP-12#PBF-ND	12-Bit, 170Msps ADC*	64-QFN	71.75	51.25	42.21
LTC2240IUP-12#PBF-ND	12-Bit, 170Msps ADC*	64-QFN	86.10	61.50	50.65
LTC2241CUP-10#PBF-ND	10-Bit, 210Msps ADC*	64-QFN	65.60	46.86	38.60
LTC2241IUP-10#PBF-ND	10-Bit, 210Msps ADC*	64-QFN	78.73	56.23	43.32

**** RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC2241CUP-12#PBF-ND	12-Bit, 210Msps ADC*	64-QFN	86.10	61.50	50.65
LTC2242CUP-10#PBF-ND	10-Bit, 250Msps ADC*	64-QFN	79.95	57.11	47.04
LTC2242CUP-12#PBF-ND	12-Bit, 250Msps ADC*	64-QFN	120.95	86.40	71.15
LTC2242IUP-12#PBF-ND	12-Bit, 250Msps ADC*	64-QFN	145.15	103.68	85.39
LTC2245CUH#PBF-ND	14-Bit, 10Msps Low Power 3V ADC*	32-QFN	21.33	14.22	12.19
LTC2245IUH#PBF-ND	14-Bit, 10Msps Low Power 3V ADC*	32-QFN	26.65	17.77	15.23
LTC2246CUH#PBF-ND	14-Bit, 25Msps Low Power 3V ADC*	32-QFN	24.90	16.60	14.23
LTC2246IUH#PBF-ND	14-Bit, 25Msps Low Power 3V ADC*	32-QFN	31.13	20.75	17.80
LTC2247CUH#PBF-ND	14-Bit, 40Msps Low Power 3V ADC*	32-QFN	32.90	21.93	18.80
LTC2247IUH#PBF-ND	14-Bit, 40Msps Low Power 3V ADC*	32-QFN	39.43	26.28	22.53
LTC2248CUH#PBF-ND	14-Bit, 65Msps Low Power 3V ADC*	32-QFN	48.45	32.30	27.69
LTC2248IUH#PBF-ND	14-Bit, 65Msps Low Power 3V ADC*	32-QFN	58.10	38.73	33.20
LTC2249CUH#PBF-ND	14-Bit, 80Msps Low Power 3V ADC*	32-QFN	51.88	34.58	29.64
LTC2249IUH#PBF-ND	14-Bit, 80Msps Low Power 3V ADC*	32-QFN	62.25	41.50	35.57
LTC2250CUH#PBF-ND	10-Bit, 105Msps Low Noise 3V ADC*	32-QFN	15.00	10.71	8.82
LTC2250IUH#PBF-ND	10-Bit, 105Msps Low Noise 3V ADC*	32-QFN	18.00	12.86	10.59
LTC2251CUH#PBF-ND	10-Bit, 125Msps Low Noise 3V ADC*	32-QFN	24.00	17.14	14.12
LTC2251IUH#PBF-ND	10-Bit, 125Msps Low Noise 3V ADC*	32-QFN	28.80	20.57	16.94
LTC2252CUH#PBF-ND	12-Bit, 105Msps Low Power 3V ADC*	32-QFN	46.00	32.86	27.06
LTC2252IUH#PBF-ND	12-Bit, 105Msps Low Power 3V ADC*	32-QFN	55.20	39.43	32.47
LTC2253CUH#PBF-ND	12-Bit, 125Msps Low Power 3V ADC*	32-QFN	55.00	39.29	32.35
LTC2253IUH#PBF-ND	12-Bit, 125Msps Low Power 3V ADC*	32-QFN	66.00	47.14	38.82
LTC2254CUH#PBF-ND	14-Bit, 105Msps Low Power 3V ADC*	32-QFN	82.00	58.57	48.24
LTC2254IUH#PBF-ND	14-Bit, 105Msps Low Power 3V ADC*	32-QFN	98.40	70.29	57.89
LTC2255CUH#PBF-ND	14-Bit, 125Msps Low Power 3V ADC*	32-QFN	98.00	70.00	57.65
LTC2255IUH#PBF-ND	14-Bit, 125Msps Low Power 3V ADC*	32-QFN	117.60	84.00	69.18
LTC2280CUP#PBF-ND	Dual 10-Bit, 105Msps Low Noise 3V ADC*	64-QFN	22.50	16.07	13.24
LTC2280IUP#PBF-ND	Dual 10-Bit, 105Msps Low Noise 3V ADC*	64-QFN	27.00	19.29	15.88
LTC2281CUP#PBF-ND	Dual 10-Bit, 125Msps Low Power 3V ADC*	64-QFN	36.00	25.71	21.18
LTC2281IUP#PBF-ND	Dual 10-Bit, 125Msps Low Power 3V ADC*	64-QFN	43.20	30.86	25.42
LTC2282CUP#PBF-ND	Dual 12-Bit, 105Msps Low Power 3V ADC*	64-QFN	69.00	49.29	40.59
LTC2282IUP#PBF-ND	Dual 12-Bit, 105Msps Low Power 3V ADC*	64-QFN	82.80	59.14	48.71
LTC2283CUP#PBF-ND	Dual 12-Bit, 125Msps Low Power 3V ADC*	64-QFN	82.50	58.93	48.54
LTC2283IUP#PBF-ND	Dual 12-Bit, 125Msps Low Power 3V ADC*	64-QFN	99.00	70.71	58.25
LTC2284CUP#PBF-ND	Dual 14-Bit, 105Msps Low Power 3V ADC*	64-QFN	123.00	87.86	72.36
LTC2284IUP#PBF-ND	Dual 14-Bit, 105Msps Low Power 3V ADC*	64-QFN	147.60	105.43	86.83
LTC2285CUP#PBF-ND	Dual 14-Bit, 125Msps Low Power 3V ADC*	64-QFN	147.00	105.00	86.48
LTC2285IUP#PBF-ND	Dual 14-Bit, 125Msps Low Power 3V ADC*	64-QFN	176.40	126.00	103.74
LTC2286CUP#PBF-ND	Dual 10-Bit, 25Msps Low Noise 3V ADC*	64-QFN	10.50	7.00	6.00
LTC2286IUP#PBF-ND	Dual 10-Bit, 25Msps Low Noise 3V ADC*	64-QFN	12.60	8.40	7.20
LTC2287CUP#PBF-ND	Dual 10-Bit, 40Msps Low Noise 3V ADC*	64-QFN	14.40	9.60	8.23
LTC2287IUP#PBF-ND	Dual 10-Bit, 40Msps Low Noise 3V ADC*	64-QFN	17.25	11.50	9.86
LTC2288CUP#PBF-ND	Dual 10-Bit, 65Msps Low Noise 3V ADC*	64-QFN	15.20	10.13	8.69
LTC2288IUP#PBF-ND	Dual 10-Bit, 65Msps Low Noise 3V ADC*	64-QFN	18.23	12.15	10.41
LTC2289CUP#PBF-ND	Dual 10-Bit, 80Msps Low Noise 3V ADC*	64-QFN	20.60	13.73	11.77
LTC2289IUP#PBF-ND	Dual 10-Bit, 80Msps Low Noise 3V ADC*	64-QFN	24.60	16.40	14.06
LTC2290CUP#PBF-ND	Dual 12-Bit, 10Msps Low Power 3V ADC*	64-QFN	20.75	13.83	11.86
LTC2290IUP#PBF-ND	Dual 12-Bit, 10Msps Low Power 3V ADC*	64-QFN	24.90	16.60	14.23
LTC2291CUP#PBF-ND	Dual 12-Bit, 25Msps Low Power 3V ADC*	64-QFN	22.78	15.18	13.01
LTC2291IUP#PBF-ND	Dual 12-Bit, 25Msps Low Power 3V ADC*	64-QFN	27.35	18.23	15.63
LTC2292CUP#PBF-ND	Dual 12-Bit, 40Msps Low Power 3V ADC*	64-QFN	24.05	16.03	13.74
LTC2292IUP#PBF-ND	Dual 12-Bit, 40Msps Low Power 3V ADC*	64-QFN	28.85	19.23	16.49
LTC2293CUP#PBF-ND	Dual 12-Bit, 65Msps Low Power 3V ADC*	64-QFN	37.18	24.78	21.24
LTC2293IUP#PBF-ND	Dual 12-Bit, 65Msps Low Power 3V ADC*	64-QFN	44.60	29.73	25.48
LTC2294CUP#PBF-ND	Dual 12-Bit, 80Msps Low Power 3V ADC*	64-QFN	51.38	34.25	29.36
LTC2294IUP#PBF-ND	Dual 12-Bit, 80Msps Low Power 3V ADC*	64-QFN	61.50	41.00	35.15
LTC2295CUP#PBF-ND	Dual 14-Bit, 10Msps Low Power 3V ADC*	64-QFN	35.28	23.52	20.16
LTC2295IUP#PBF-ND	Dual 14-Bit, 10Msps Low Power 3V ADC*	64-QFN	42.33	28.22	24.19
LTC2296CUP#PBF-ND	Dual 14-Bit, 25Msps Low Power 3V ADC*	64-QFN	38.90	25.93	22.23
LTC2296IUP#PBF-ND	Dual 14-Bit, 25Msps Low Power 3V ADC*	64-QFN	46.70	31.13	26.69
LTC2297CUP#PBF-ND	Dual 14-Bit, 40Msps Low Power 3V ADC*	64-QFN	49.33	32.88	28.19
LTC2297IUP#PBF-ND	Dual 14-Bit, 40Msps Low Power 3V ADC*	64-QFN	59.15	39.43	33.80
LTC2298CUP#PBF-ND	Dual 14-Bit, 65Msps Low Power 3V ADC*	64-QFN	72.68	48.45	41.53
LTC2298IUP#PBF-ND	Dual 14-Bit, 65Msps Low Power 3V ADC*	64-QFN	87.15	58.10	49.80
LTC2299CUP#PBF-ND	Dual 14-Bit, 80Msps Low Power 3V ADC*	64-QFN	77.83	51.88	44.48
LTC2299IUP#PBF-ND	Dual 14-Bit, 80Msps Low Power 3V ADC*	64-QFN	93.38	62.25	53.37
LTC2308CUF#PBF-ND	8-Channel 12-Bit, 500ksps ADC*	24-QFN	6.05	5.27	4.34
LTC2308IUF#PBF-ND	8-Channel 12-Bit, 500ksps ADC*	24-QFN	7.25	6.32	5.21
LTC2309CUF#PBF-ND	8-Channel 12-Bit, SAR ADC* ***NEW!***	24-QFN	6.28	5.27	4.34
LTC2309IUF#PBF-ND	8-Channel 12-Bit, SAR ADC* ***NEW!***	24-QFN	7.53	6.32	5.21
LTC2351IUH-14#PBF-ND	6-Channel, 14-Bit, 1.5Msps Sampling ADC*	32-QFN	23.25	16.61	13.68
LTC2355CMSE-12#PBF-ND	12-Bit, 3.5Msps Sampling ADC*	10-MSOP	10.15	7.25	5.97
LTC2355CMSE-14#PBF-ND	14-Bit, 3.5Msps Sampling ADC*	10-MSOP	16.30	11.64	9.59
LTC2355IMSE-12#PBF-ND	12-Bit, 3.5Msps Sampling ADC, Ind. Temp*	10-MSOP	12.18	8.70	7.16
LTC2355IMSE-14#PBF-ND	14-Bit, 3.5Msps Sampling ADC, Ind. Temp*	10-MSOP	19.55	13.97	11.50
LTC2356CMSE-12#PBF-ND	12-Bit, 3.5Msps Sampling ADC*	10-MSOP	10.15	7.25	5.97
LTC2356IMSE-12#PBF-ND	12-Bit, 3.5Msps Sampling ADC, Ind. Temp*	10-MSOP	12.18	8.70	7.16
LTC2356IMSE-14#PBF-ND	14-Bit, 3.5Msps Sampling ADC, Ind. Temp*	10-MSOP	19.55	13.97	11.50

Current Output DAC

Digi-Key Part No.	Description	Pkg.	1	25	100
LTC1589CG-ND	14-Bit SoftSpan DAC	16-SSOP	19.88	13.20	10.60
LTC1590CN-ND	Dual 12-Bit, Serial Input, Current Output DAC	16-Dip	12.13	8.06	6.65
LTC1590CN#PBF-ND	Dual 12-Bit, Serial Input, Current Output DAC*	16-Dip	12.13	8.06	6.65
LTC1590CS#PBF-ND	Dual 12-Bit, Serial Input, Current Output DAC*	16-SOIC	12.38	8.22	6.80
LTC1590IS-ND	Dual 12-Bit, Serial Input, Current Output DAC	16-SOIC	13.63	9.05	7.50
LTC1590IS#PBF-ND	Dual 12-Bit, Serial Input, Current Output DAC*	16-SOIC	13.63	9.05	7.50
LTC1591CG#PBF-ND	Parallel 14-Bit, Multiplying Current Out DAC*	28-SSOP	20.00	13.28	10.00
LTC1592ACG-ND	16-Bit Softspan DAC	16-SSOP	55.63	36.94	29.65
LTC1592ACG#PBF-ND	16-Bit Softspan DAC*	16-SSOP	55.63	36.94	29.65
LTC1592BCG-ND	16-Bit Softspan DAC	16-SSOP	29.63	19.68	15.80
LTC1592BCG#PBF-ND	16-Bit Softspan DAC*	16-SSOP	29.63	19.68	15.80
LTC1595ACN8-ND	16-Bit Serial Multiplying DAC	8-Dip	48.13	31.96	24.71
LTC1595ACS8#PBF-ND	16-Bit Serial Multiplying DAC*	8-SOIC	48.75	32.37	25.65
LTC1595AIN8-ND	16-Bit Serial Multiplying DAC, Ind. Temp.	8-Dip	57.75	38.35	29.65
LTC1595AIS8#PBF-ND	16-Bit Serial Multiplying DAC, Ind. Temp.*	8-SOIC	58.50	38.85	30.00
LTC1595BCN8-ND	16-Bit Serial Multiplying DAC	8-Dip	28.50	18.93	15.20
LTC1595BCS8#PBF-ND	16-Bit Serial Multiplying DAC*	8-SOIC	29.13	19.34	15.55
LTC1595BIS8-ND	16-Bit Serial Multiplying DAC, Ind. Temp.	8-SOIC	35.00	23.24	18.65
LTC1595BIS8#PBF-ND	16-Bit Serial Multiplying DAC, Ind. Temp*	8-SOIC	35.00	23.24	18.65
LTC1595CCS8#PBF-ND	16-Bit Serial Multiplying DAC*	8-SOIC	25.00	16.60	13.35
LTC1596ACN-ND	16-Bit Serial Multiplying DAC	16-Dip	50.38	33.45	25.85
LTC1596AISW-ND	16-Bit Serial Multiplying DAC, Ind. Temp.	16-SOIC	61.25	40.67	31.40
LTC1596AISW#PBF-ND	16-Bit Serial Multiplying DAC, Ind. Temp*	16-SOIC	61.25	40.67	31.40
LTC1596BCSW#PBF-ND	16-Bit Serial Multiplying DAC*	16-SOIC	30.63	20.34	16.35
LTC1597ACG#PBF-ND	16-Bit Multiplying Parallel DAC with 4-Quadrant Resistors*	28-SSOP	55.63	36.94	27.82
LTC1597BCN-ND	16-Bit Multiplying Parallel DAC with 4-Quadrant Resistors	28-Dip	33.88	22.50	16.95
LTC1597BCN#PBF-ND	16-Bit Multiplying Parallel DAC with 4-Quadrant Resistors*	28-Dip	33.88	22.50	16.95
LTC1597-1ACG-ND	16-Bit Multiplying Parallel DAC with 4-Quadrant Resistors	28-SSOP	55.63	36.94	27.82
LTC1597-1ACG#PBF-ND	16-Bit Multiplying Parallel DAC with 4-Quadrant Resistors*	28-SSOP	55.63	36.94	27.82
LTC1597-1ACN#PBF-ND	16-Bit Multiplying Parallel DAC with 4-Quadrant Resistors*	28-DIP	55.00	36.52	28.60
LTC1597-1BCG#PBF-ND	16-Bit Multiplying Parallel DAC with 4-Quadrant Resistors*	28-SSOP	34.50	22.91	17.25
LTC1597-1BCN-ND	16-Bit Multiplying Parallel DAC with 4-Quadrant Resistors	28-Dip	33.88	22.50	16.95
LTC1599ACG-ND	16-Bit Multiplying Parallel DAC with 4-Quadrant Resistors	24-SSOP	55.63	36.94	28.91
LTC1599BCG#PBF-ND	16-Bit Multiplying Parallel DAC with 4-Quadrant Resistors*	24-SSOP	34.50	22.91	17.95
LTC7541ABN-ND	12-Bit CMOS Multiplying DAC	18-Dip	11.25	7.50	6.25
LTC7541ABN#PBF-ND	12-Bit CMOS Multiplying DAC*	18-Dip	11.25	7.50	6.25
LTC7541ABSW#PBF-ND	12-Bit CMOS Multiplying DAC*	18-SOIC	11.25	7.50	6.25
LTC7541AKN#PBF-ND	12-Bit CMOS Multiplying DAC*	18-Dip	9.00	6.00	4.95
LTC7543GKN-ND	12-Bit Serial Multiplying DAC	16-Dip	13.13	8.75	7.25
LTC7545AKSW-ND	12-Bit Parallel Multiplying DAC	20-SOIC	7.13	4.75	4.10
LTC7545AKSW#PBF-ND	12-Bit Parallel Multiplying DAC*	20-SOIC	7.13	4.75	4.10
LTC8043EN8-ND	12-Bit Serial Multiplying DAC	8-Dip	9.13	6.10	5.00
LTC8043EN8#PBF-ND	12-Bit Serial Multiplying DAC*	8-Dip	9.13	6.10	5.00
LTC8043ES8#PBF-ND	12-Bit Serial Multiplying DAC*	8-SOIC	9.13	6.10	5.00
LTC8043FN8#PBF-ND	12-Bit Serial Multiplying DAC*	8-Dip	8.75	5.85	4.80
LTC8043FS8#PBF-ND	12-Bit Serial Multiplying DAC*	8-SOIC	8.75	5.85	4.80
LTC8143ESW-ND	12-Bit Serial Multiplying DAC	16-SOIC	13.13	8.75	7.25
LTC8143ESW#PBF-ND	12-Bit Serial Multiplying DAC*	16-SOIC	13.13	8.75	7.25

Voltage Output DAC

Digi-Key Part No.	Description	Pkg.	1	25	100
LTC1257CN8-ND	Complete Single Supply 12-Bit Volt. Output DAC	8-Dip	8.38	5.60	4.45
LTC1257CN8#PBF-ND	Complete Single Supply 12-Bit Volt. Output DAC*	8-Dip	8.38	5.60	4.45
LTC1257CS8#PBF-ND	Complete Single Supply 12-Bit Volt. Out DAC*	8-SOIC	8.88	5.90	4.75
LTC1257IN8-ND	Complete Single Supply 12-Bit Volt. Output DAC	8-Dip	9.25	6.15	4.90
LTC1257IN8#PBF-ND	Complete Single Supply 12-Bit Volt. Output DAC*	8-Dip	9.25	6.15	4.90
LTC1257IS8-ND	Complete Single Supply 12-Bit Volt. Output DAC	8-SOIC	9.75	6.50	5.20
LTC1257IS8#PBF-ND	Complete Single Supply 12-Bit Volt. Out DAC*	8-SOIC	9.75	6.50	5.20
LTC1446CN8-ND	Dual 12-Bit Rail-to-Rail Micropower DAC	8-Dip	12.00	8.00	6.55
LTC1446CN8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC*	8-Dip	12.00	8.00	6.55
LTC1446CS8-ND	Dual 12-Bit Rail-to-Rail Micropower DAC	8-SOIC	12.13	8.10	6.65
LTC1446CS8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC*	8-SOIC	12.13	8.10	6.65
LTC1446IS8-ND	Dual 12-Bit R/R Micropower DAC, Ind. Temp	8-SOIC	13.63	9.10	7.45
LTC1446IS8#PBF-ND	Dual 12-Bit R/R Micropower DAC, Ind. Temp*	8-SOIC	13.63	9.10	7.45
LTC1446LCS8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC*	8-SOIC	13.38	8.90	7.65
LTC1446LIS8-ND	Dual 12-Bit R/R Micropower DAC, Ind. Temp	8-SOIC	15.00	10.00	8.60
LTC1448CN8#PBF-ND	Dual 12-Bit R/R Micropower DAC*	8-Dip	12.00	8.00	6.55
LTC1448CS8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC*	8-SOIC	12.13	8.10	6.65
LTC1448IN8#PBF-ND	Dual 12-Bit R/R Micropower DAC*	8-Dip	13.50	9.00	7.40
LTC1448IS8-ND	Dual 12-Bit R/R Micropower DAC, Ind. Temp	8-SOIC	13.63	9.10	7.45
LTC1448IS8#PBF-ND	Dual 12-Bit R/R Micropower DAC, Ind. Temp*	8-SOIC	13.63	9.10	7.45
LTC1450CG#PBF-ND	Parallel Input 12-Bit R/R Micropower DAC*	24-SSOP	10.63	7.10	6.10
LTC1450LCG#PBF-ND	Parallel Input 12-Bit R/R Micropower DAC*	24-SSOP	11.25	7.50	6.20
LTC1451CN8#PBF-ND	12-Bit, Voltage Out, R/R Micropower DAC*	8-Dip	8.63	5.75	4.93
LTC1451CS8#PBF-ND	12-Bit, Voltage Out, R/R Micropower DAC*	8-SOIC	9.13	6.08	5.21
LTC1451IS8#PBF-ND	12-Bit, Voltage Out, R/R MPU DAC, Ind. Temp*	8-SOIC	9.88	6.58	5.64
LTC1452CN8-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	8-Dip	7.63	5.07	4.35
LTC1452CN8#PBF-ND	12-Bit, Voltage Out, R/R Micropower DAC*	8-Dip	7.63	5.07	4.35
LTC1452CS8#PBF-ND	12-Bit, Voltage Out, R/R Micropower DAC*	8-SOIC	8.13	5.40	4.65
LTC1452IS8#PBF-ND	12-Bit, Voltage Out, R/R MPU DAC Ind. Temp*	8-SOIC	8.88	5.90	5.10
LTC1453CN8-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	8-Dip	8.38	5.60	4.80
LTC1453CN8#PBF-ND	12-Bit, Voltage Out, R/R Micropower DAC*	8-Dip	8.38	5.60	4.80
LTC1453CS8#PBF-ND	12-Bit, Voltage Out, R/R Micropower DAC*	8-SOIC	8.88	5.90	5.10
LTC1453IS8#PBF-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC, Industrial Temp*	8-SOIC	9.63	6.40	5.50
LTC1454CN#PBF-ND	Dual 12-Bit, Voltage Out, R/R Micropower DAC*	16-Dip	12.38	8.25	7.10
LTC1454CS-ND	Dual 12-Bit, Voltage Out, R/R Micropower DAC	16-SOIC	12.50	8.35	7.15
LTC1454CS#PBF-ND	Dual 12-Bit, Volt. Out, R/R Micropower DAC*	16-SOIC	12.50	8.35	7.15
LTC1454LCN-ND	Dual 12-Bit, Voltage Out, R/R Micropower DAC	16-Dip	13.63	9.10	7.80
LTC1454LCS-ND	Dual 12-Bit, Volt. Out, R/R Micropower DAC	16-SOIC	13.75	9.15	7.85
LTC1454LCS#PBF-ND	Dual 12-Bit, Volt. Out, R/R Micropower DAC*	16-SOIC	13.75	9.15	7.85
LTC1454IS-ND	Dual 12-Bit, Voltage Out, R/R Micropower DAC Industrial Temp.	16-SOIC	14.00	9.35	8.00
LTC1454IS#PBF-ND	Dual 12-Bit, Voltage Out, R/R Micropower DAC Industrial Temp*	16-SOIC	14.00	9.35	8.00
LTC1456CN8-ND	Single 12-Bit, Voltage Out, R/R Micropower DAC	8-Dip	8.63	5.75	4.90
LTC1456CN8#PBF-ND	Single 12-Bit, Volt. Out, R/R Micropower DAC*	8-Dip	8.63	5.75	4.90
LTC1456CS8#PBF-ND	Single 12-Bit, Volt. Out, R/R Micropower DAC*	8-SOIC	9.13	6.10	5.20
LTC1458CG-ND	Quad 12-Bit, Volt. Out, R/R Micropower DAC	28-SSOP	24.38	16.25	13.20
LTC1458CG#PBF-ND	Quad 12-Bit, Volt. Out, R/R Micropower DAC*	28-SSOP	24.38	16.25	13.20
LTC1458CSW#PBF-ND	Quad 12-Bit, Volt. Out, R/R Micropower DAC*	28-SOIC	22.88	15.25	12.35
LTC1458LCG#PBF-ND	Quad 12-Bit, Volt. Out, R/R Micropower DAC*	28-SSOP	26.88	17.90	15.35
LTC1458LIG-ND	Quad 12-Bit, Volt. Out, R/R Micropower DAC	28-SSOP	31.63	21.00	16.86
LTC1458LIG#PBF-ND	Quad 12-Bit, Volt. Out, R/R Micropower DAC*	28-SSOP	31.63	21.00	16.86
LTC1650ACS#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC*	16-SOIC	32.50	21.58	17.10
LTC1650AIS#PBF-ND	16-Bit, R/R Voltage Out DAC, Ind. Temp*	16-SOIC	36.88	24.49	19.40
LTC1650CS#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC*	16-SOIC	24.50	16.27	12.25
LTC1650IS#PBF-ND	16-Bit, R/R Voltage Out DAC, Ind. Temp*	16-SOIC	27.75	18.43	13.90
LTC1654CGN#PBF-ND	Dual 14-Bit, Rail-to-Rail Voltage Out DAC*	16-SSOP	19.00	12.62	9.50
LTC1655CN8#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC*	8-Dip	16.88	11.21	8.45
LTC1655CS8-ND	16-Bit, Rail-to-Rail Voltage Out DAC	8-SOIC	16.88	11.21	8.45

***RoHS Compliant**

(Continued)

DATA CONVERSION *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1655CS8#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC*	8-SOIC	16.88	11.21	8.45
LTC1655IS8-ND	16-Bit, R/R Voltage Out DAC, Ind. Temp.	8-SOIC	18.50	12.29	9.25
LTC1655IS8#PBF-ND	16-Bit, R/R Voltage Out DAC, Ind. Temp*	8-SOIC	18.50	12.29	9.25
LTC1658CMS8#PBF-ND	14-Bit, Rail-to-Rail Voltage Out DAC*	8-MSOP	10.88	7.23	5.45
LTC1658CN8-ND	14-Bit, Rail-to-Rail Voltage Out DAC	8-Dip	10.25	6.81	5.15
LTC1658CN8#PBF-ND	14-Bit, Rail-to-Rail Voltage Out DAC*	8-Dip	10.25	6.81	5.15
LTC1658CS8#PBF-ND	14-Bit, Rail-to-Rail Voltage Out DAC*	8-SOIC	10.25	6.81	5.15
LTC1658IMS8#PBF-ND	14-Bit, Rail-to-Rail Volt. Out DAC, Ind. Temp*	8-MSOP	13.00	8.64	6.50
LTC1659CS8-ND	12-Bit, Rail-to-Rail Voltage Out DAC	8-SOIC	8.38	5.57	4.65
LTC1659CS8#PBF-ND	12-Bit, Rail-to-Rail Voltage Out DAC*	8-SOIC	8.38	5.57	4.65
LTC1659IMS8#PBF-ND	12-Bit, R/R Voltage Out DAC, Ind. Temp*	8-MSOP	10.25	7.32	6.03
LTC1659IS8#PBF-ND	12-Bit, R/R Voltage Out DAC, Ind. Temp*	8-SOIC	9.13	6.06	5.10
LTC1660CGN#PBF-ND	Octal 10-Bit, Voltage Output DAC*	16-SSOP	12.38	8.22	6.20
LTC1660CN#PBF-ND	Octal 10-Bit, Voltage Output DAC*	16-Dip	11.38	7.56	5.70
LTC1660IGN-ND	Octal 10-Bit, Voltage Output DAC, Ind. Temp.	16-SSOP	13.88	9.22	6.95
LTC1660IGN#PBF-ND	Octal 10-Bit, Voltage Output DAC, Ind. Temp*	16-SSOP	13.88	9.22	6.95
LTC1660IN-ND	Octal 10-Bit, Voltage Output DAC, Ind. Temp.	16-Dip	12.88	8.55	6.44
LTC1661CMS8#PBF-ND	Dual 10-Bit, Micropower DAC*	8-MSOP	3.38	2.25	1.75
LTC1661CN8#PBF-ND	Dual 10-Bit, Micropower DAC*	8-Dip	3.38	2.25	1.75
LTC1663-1CS5#TRMCT-ND	10-Bit, R/R MPU DAC with 2-Wire Interface	SOT-23-5	4.14	3.70	3.33
LTC1663-1CS5#TRMTR-ND	10-Bit, R/R MPU DAC with 2-Wire Interface	SOT-23-5	975.00/500		
LTC1663-1CS5#TRMPBFCT-ND	10-Bit, R/R MPU DAC with 2-Wire Interface*	SOT-23-5	4.14	3.70	3.33
LTC1663-1CS5#TRMPBFTR-ND	10-Bit, R/R MPU DAC with 2-Wire Interface*	SOT-23-5	975.00/500		
LTC1663-2CS5#TRMCT-ND	10-Bit, R/R MPU DAC with 2-Wire Interface	SOT-23-5	4.14	3.70	3.33
LTC1663-8CMS8-ND	10-Bit, R/R MPU DAC with 2-Wire Interface	8-MSOP	3.50	2.50	2.06
LTC1663-8IMS8-ND	10-Bit, R/R MPU DAC with 2-Wire Interface	8-MSOP	4.13	2.95	2.43
LTC1663-8IMS8#PBF-ND	10-Bit, R/R MPU DAC with 2-Wire Interface*	8-MSOP	4.13	2.95	2.43
LTC1663CS5#TRMPBFCT-ND	10-Bit, R/R MPU DAC with 2-Wire Interface*	SOT-23-5	4.14	3.70	3.33
LTC1663CS5#TRMPBFTR-ND	10-Bit, R/R MPU DAC with 2-Wire Interface*	SOT-23-5	975.00/500		
LTC1665CGN#PBF-ND	Octal 8-Bit, Voltage Output DAC*	16-SSOP	6.38	4.24	3.20
LTC1666CG#PBF-ND	12-Bit, 50Msps DAC*	28-SSOP	16.63	11.04	8.95
LTC1667CG-ND	14-Bit, 50Msps DAC	28-SSOP	22.38	14.86	12.05
LTC1667CG#PBF-ND	14-Bit, 50Msps DAC*	28-SSOP	22.38	14.86	12.05
LTC1669CMS8#PBF-ND	10-Bit Rail-to-Rail Micropower DAC*	8-MSOP	3.50	2.50	2.06
LTC1669CS5#TRMPBFCT-ND	10-Bit Rail-to-Rail Micropower DAC*	SOT-23-5	4.14	3.70	3.33
LTC1821-1AIGW-ND	16-Bit, Ultra Precise, Volt. Out DAC, Ind. Temp.	36-SSOP	95.63	63.75	51.00
LTC1821-1BCGW#PBF-ND	16-Bit, Ultra Precise, Voltage Out DAC*	36-SSOP	63.63	42.40	33.95
LTC1821ACGW-ND	16-Bit, Ultra Precise, Voltage Out DAC	36-SSOP	87.13	58.10	46.46
LTC1821BIGW-ND	16-Bit, Ultra Precise, Volt. Out DAC, Ind. Temp.	36-SSOP	70.00	46.65	37.35
LTC2600CGN#PBF-ND	Octal 16-Bit Rail-to-Rail DAC*	16-SSOP	28.00	18.60	14.95
LTC2601CDD-1#PBF-ND	16-Bit Rail-to-Rail DAC*	10-DFN	5.38	3.60	3.05
LTC2601IDD-1#PBF-ND	16-Bit Rail-to-Rail DAC*	10-DFN	6.00	4.00	3.45
LTC2602IMS8#PBF-ND	16-Bit Dual Rail-to-Rail DAC*	8-MSOP	10.63	7.10	5.65
LTC2604CGN#PBF-ND	16-Bit Quad Rail-to-Rail DAC*	16-SSOP	19.00	12.62	10.15
LTC2604IGN-1#PBF-ND	16-Bit Quad Rail-to-Rail DAC*	16-SSOP	21.88	14.53	11.65
LTC2607CDE#PBF-ND	16-Bit Dual Rail-to-Rail DAC with I²C Interface*	12-DFN	10.45	7.46	6.15
LTC2607CDE-1#PBF-ND	16-Bit Dual Rail-to-Rail DAC with I²C Interface*	12-DFN	10.45	7.46	6.15
LTC2607IDE#PBF-ND	16-Bit Dual Rail-to-Rail DAC with I²C Interface*	12-DFN	12.55	8.96	7.38
LTC2607IDE-1#PBF-ND	16-Bit Dual Rail-to-Rail DAC with I²C Interface*	12-DFN	12.55	8.96	7.38
LTC2609CGN#PBF-ND	16-Bit Quad R/R DAC with I²C Interface*	16-SSOP	19.00	13.57	11.18
LTC2609CGN-1#PBF-ND	16-Bit Quad R/R DAC with I²C Interface*	16-SSOP	19.00	13.57	11.18
LTC2609IGN#PBF-ND	16-Bit Quad R/R DAC with I²C Interface*	16-SSOP	22.80	16.29	13.41
LTC2609IGN-1#PBF-ND	16-Bit Quad R/R DAC with I²C Interface*	16-SSOP	22.80	16.29	13.41
LTC2610CGN#PBF-ND	Octal 14-Bit Rail-to-Rail DAC*	16-SSOP	22.13	14.70	11.80
LTC2611CDD-1#PBF-ND	14-Bit Rail-to-Rail DAC*	10-DFN	4.63	3.08	2.55
LTC2611IDD-1#PBF-ND	14-Bit Rail-to-Rail DAC*	10-DFN	5.50	3.66	3.05
LTC2614IGN-1#PBF-ND	14-Bit Quad Rail-to-Rail DAC*	16-SSOP	16.00	11.43	9.41
LTC2615CGN#PBF-ND	Octal 14-Bit Rail-to-Rail DAC*	16-SSOP	23.20	16.57	13.65
LTC2615CGN-1#PBF-ND	Octal 14-Bit Rail-to-Rail DAC*	16-SSOP	23.20	16.57	13.65
LTC2615IGN#PBF-ND	Octal 14-Bit Rail-to-Rail DAC*	16-SSOP	27.85	19.89	16.38
LTC2615IGN-1#PBF-ND	Octal 14-Bit Rail-to-Rail DAC*	16-SSOP	27.85	19.89	16.38
LTC2617CDE#PBF-ND	14-Bit Dual Rail-to-Rail DAC with I²C Interface*	12-DFN	7.60	5.43	4.47
LTC2617CDE-1#PBF-ND	14-Bit Dual Rail-to-Rail DAC with I²C Interface*	12-DFN	7.60	5.43	4.47
LTC2617IDE#PBF-ND	14-Bit Dual Rail-to-Rail DAC with I²C Interface*	12-DFN	9.13	6.52	5.37
LTC2617IDE-1#PBF-ND	14-Bit Dual Rail-to-Rail DAC with I²C Interface*	12-DFN	9.13	6.52	5.37
LTC2619CGN#PBF-ND	14-Bit Quad R/R DAC with I²C Interface*	16-SSOP	14.70	10.50	8.65
LTC2619CGN-1#PBF-ND	14-Bit Quad R/R DAC with I²C Interface*	16-SSOP	14.70	10.50	8.65
LTC2619IGN#PBF-ND	14-Bit Quad R/R DAC with I²C Interface*	16-SSOP	17.65	12.61	10.38
LTC2619IGN-1#PBF-ND	14-Bit Quad R/RI DAC with I²C Interface*	16-SSOP	17.65	12.61	10.38
LTC2620CGN#PBF-ND	Octal 12-Bit Rail-to-Rail DAC*	16-SSOP	15.50	10.30	8.25
LTC2621CDD-1#PBF-ND	12-Bit Rail-to-Rail DAC*	10-DFN	4.00	2.66	2.20
LTC2621IDD-1#PBF-ND	12-Bit Rail-to-Rail DAC*	10-DFN	4.63	3.08	2.55
LTC2624IGN-1#PBF-ND	12-Bit Quad Rail-to-Rail DAC*	16-SSOP	12.13	8.66	7.13
LTC2625CGN#PBF-ND	Octal 12-Bit Rail-to-Rail DAC*	16-SSOP	16.28	11.63	9.57
LTC2625CGN-1#PBF-ND	Octal 12-Bit Rail-to-Rail DAC*	16-SSOP	16.28	11.63	9.57
LTC2625IGN#PBF-ND	Octal 12-Bit Rail-to-Rail DAC*	16-SSOP	19.53	13.95	11.49
LTC2625IGN-1#PBF-ND	Octal 12-Bit Rail-to-Rail DAC*	16-SSOP	19.53	13.95	11.49
LTC2627CDE#PBF-ND	12-Bit Dual Rail-to-Rail DAC with I²C Interface*	12-DFN	6.15	4.39	3.62
LTC2627CDE-1#PBF-ND	12-Bit Dual Rail-to-Rail DAC with I²C Interface*	12-DFN	6.15	4.39	3.62
LTC2627IDE#PBF-ND	12-Bit Dual Rail-to-Rail DAC with I²C Interface*	12-DFN	7.40	5.29	4.35
LTC2627IDE-1#PBF-ND	12-Bit Dual Rail-to-Rail DAC with I²C Interface*	12-DFN	7.40	5.29	4.35
LTC2629CGN#PBF-ND	12-Bit Quad Rail-to-Rail DAC w/I²C Interface*	16-SSOP	10.50	7.50	6.18
LTC2629CGN-1#PBF-ND	12-Bit Quad Rail-to-Rail DAC w/I²C Interface*	16-SSOP	10.50	7.50	6.18
LTC2629IGN#PBF-ND	12-Bit Quad Rail-to-Rail DAC w/I²C Interface*	16-SSOP	12.60	9.00	7.41
LTC2629IGN-1#PBF-ND	12-Bit Quad Rail-to-Rail DAC w/I²C Interface*	16-SSOP	12.60	9.00	7.41
LTC2630ACSC6-HM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	4.54	4.05	3.65
LTC2630ACSC6-HM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1220.00/500		
LTC2630ACSC6-HZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	4.54	4.05	3.65
LTC2630ACSC6-HZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1220.00/500		
LTC2630ACSC6-LZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	4.54	4.05	3.65
LTC2630ACSC6-LZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1220.00/500		
LTC2630AHSC6-HM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	5.15	4.60	4.14
LTC2630AHSC6-HM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1380.00/500		
LTC2630AHSC6-HZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	5.15	4.60	4.14
LTC2630AHSC6-HZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1380.00/500		
LTC2630AHSC6-LM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	5.15	4.60	4.14
LTC2630AHSC6-LM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1380.00/500		
LTC2630AHSC6-LZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	5.15	4.60	4.14
LTC2630AHSC6-LZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1380.00/500		
LTC2630AISC6-HM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	4.93	4.40	3.96
LTC2630AISC6-HM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1320.00/500		
LTC2630AISC6-HZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	4.93	4.40	3.96
LTC2630AISC6-HZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1320.00/500		
LTC2630AISC6-LM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	4.93	4.40	3.96
LTC2630AISC6-LM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1320.00/500		
LTC2630AISC6-LZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	4.93	4.40	3.96
LTC2630AISC6-LZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1320.00/500		
LTC2630CSC6-HM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	3.39	3.03	2.73
LTC2630CSC6-HM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	915.00/500		
LTC2630CSC6-HZ10#TRMPBFCT-ND	10-Bit R/R DAC with Integrated Ref.*	SC70-6	2.97	2.65	2.39
LTC2630CSC6-HZ10#TRMPBFTR-ND	10-Bit R/R DAC with Integrated Ref.*	SC70-6	805.00/500		
LTC2630CSC6-HZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	3.39	3.03	2.73
LTC2630CSC6-HZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	915.00/500		
LTC2630CSC6-LM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	3.39	3.03	2.73
LTC2630CSC6-LM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	915.00/500		
LTC2630CSC6-LZ10#TRMPBFCT-ND	10-Bit R/R DAC with Integrated Ref.*	SC70-6	2.97	2.65	2.39
LTC2630CSC6-LZ10#TRMPBFTR-ND	10-Bit R/R DAC with Integrated Ref.*	SC70-6	805.00/500		
LTC2630CSC6-LZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	3.39	3.03	2.73
LTC2630CSC6-LZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	915.00/500		
LTC2630CSC6-LZ8#TRMPBFCT-ND	8-Bit R/R DAC with Integrated Ref.*	SC70-6	2.35	2.10	1.89
LTC2630CSC6-LZ8#TRMPBFTR-ND	8-Bit R/R DAC with Integrated Ref.*	SC70-6	645.00/500		
LTC2630HSC6-HM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	3.86	3.45	3.11
LTC2630HSC6-HM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1045.00/500		
LTC2630HSC6-HZ10#TRMPBFCT-ND	10-Bit R/R DAC with Integrated Ref.*	SC70-6	3.39	3.03	2.73
LTC2630HSC6-HZ10#TRMPBFTR-ND	10-Bit R/R DAC with Integrated Ref.*	SC70-6	915.00/500		
LTC2630HSC6-HZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	3.86	3.45	3.11
LTC2630HSC6-HZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1045.00/500		
LTC2630HSC6-HZ8#TRMPBFCT-ND	8-Bit R/R DAC with Integrated Ref.*	SC70-6	2.86	2.55	2.30
LTC2630HSC6-HZ8#TRMPBFTR-ND	8-Bit R/R DAC with Integrated Ref.*	SC70-6	780.00/500		
LTC2630HSC6-LM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	3.86	3.45	3.11
LTC2630HSC6-LM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1045.00/500		
LTC2630HSC6-LZ10#TRMPBFCT-ND	10-Bit R/R DAC with Integrated Ref.*	SC70-6	3.39	3.03	2.73
LTC2630HSC6-LZ10#TRMPBFTR-ND	10-Bit R/R DAC with Integrated Ref.*	SC70-6	915.00/500		
LTC2630HSC6-LZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	3.86	3.45	3.11
LTC2630HSC6-LZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	1045.00/500		
LTC2630HSC6-LZ8#TRMPBFCT-ND	8-Bit R/R DAC with Integrated Ref.*	SC70-6	2.86	2.55	2.30
LTC2630HSC6-LZ8#TRMPBFTR-ND	8-Bit R/R DAC with Integrated Ref.*	SC70-6	780.00/500		
LTC2630ISC6-HM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	3.70	3.30	2.97
LTC2630ISC6-HM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	995.00/500		
LTC2630ISC6-HZ10#TRMPBFCT-ND	10-Bit R/R DAC with Integrated Ref.*	SC70-6	3.25	2.90	2.61
LTC2630ISC6-HZ10#TRMPBFTR-ND	10-Bit R/R DAC with Integrated Ref.*	SC70-6	875.00/500		
LTC2630ISC6-HZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	3.70	3.30	2.97
LTC2630ISC6-HZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	995.00/500		
LTC2630ISC6-HZ8#TRMPBFCT-ND	8-Bit R/R DAC with Integrated Ref.*	SC70-6	2.63	2.35	2.12
LTC2630ISC6-HZ8#TRMPBFTR-ND	8-Bit R/R DAC with Integrated Ref.*	SC70-6	720.00/500		
LTC2630ISC6-LM12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	3.70	3.30	2.97
LTC2630ISC6-LM12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	995.00/500		
LTC2630ISC6-LZ10#TRMPBFCT-ND	10-Bit R/R DAC with Integrated Ref.*	SC70-6	3.25	2.90	2.61
LTC2630ISC6-LZ10#TRMPBFTR-ND	10-Bit R/R DAC with Integrated Ref.*	SC70-6	875.00/500		
LTC2630ISC6-LZ12#TRMPBFCT-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	3.70	3.30	2.97
LTC2630ISC6-LZ12#TRMPBFTR-ND	12-Bit R/R DAC with Integrated Ref.*	SC70-6	995.00/500		
LTC2630ISC6-LZ8#TRMPBFCT-ND	8-Bit R/R DAC with Integrated Ref.*	SC70-6	2.63	2.35	2.12
LTC2630ISC6-LZ8#TRMPBFTR-ND	8-Bit R/R DAC with Integrated Ref.*	SC70-6	720.00/500		
LTC2641CDD-12#PBF-ND	Single Supply 12-Bit Voltage Output DAC*	8-DFN	6.05	4.32	3.56
LTC2641CDD-14#PBF-ND	Single Supply 14-Bit Voltage Output DAC*	8-DFN	11.10	7.94	6.54
LTC2641CDD-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	8-DFN	12.83	9.15	7.54
LTC2641CMS8-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	8-MSOP	12.83	9.15	7.54
LTC2642CMS-16#PBF-ND	Single Supply 16-Bit Volt. Out DAC*	10-MSOP	12.83	9.15	7.54
LTC2642IMS-16#PBF-ND	Single Supply 16-Bit Volt. Out DAC*	10-MSOP	15.38	10.98	9.04
LTC2641IDD-12#PBF-ND	Single Supply 12-Bit Voltage Output DAC*	8-DFN	7.25	5.18	4.27
LTC2641IDD-14#PBF-ND	Single Supply 14-Bit Voltage Output DAC*	8-DFN	13.33	9.52	7.84
LTC2641IDD-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	8-DFN	15.38	10.98	9.04
LTC2641IMS8-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	8-MSOP	15.38	10.98	9.04
LTC2642CDD-12#PBF-ND	Single Supply 12-Bit Voltage Output DAC*	10-DFN	6.05	4.32	3.56
LTC2642CDD-14#PBF-ND	Single Supply 14-Bit Voltage Output DAC*	10-DFN	11.10	7.94	6.54
LTC2642CDD-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	10-DFN	12.83	9.15	7.54
LTC2642IDD-12#PBF-ND	Single Supply 12-Bit Voltage Output DAC*	10-DFN	7.25	5.18	4.27
LTC2642IDD-14#PBF-ND	Single Supply 14-Bit Voltage Output DAC*	10-DFN	13.33	9.52	7.84
LTC2642IDD-16#PBF-ND	Single Supply 16-Bit Voltage Output DAC*	10-DFN	15.38	10.98	9.04
LTC2751ACUHF-16#PBF-ND	16-Bit Current Output Softspan DAC* ***NEW!***	38-QFN	20.30	14.50	11.94
LTC2751CUHF-12#PBF-ND	12-Bit Current Output Softspan DAC* ***NEW!***	38-QFN	10.15	7.25	5.97
LTC2751CUHF-14#PBF-ND	14-Bit Current Output Softspan DAC* ***NEW!***	38-QFN	13.33	9.52	7.84

Special Function DAC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1329CS8-10-ND	Micropower 8-Bit, Current Output DAC	8-SOIC	4.75	3.16	2.65
LTC1329CS8-10#PBF-ND	Micropower 8-Bit, Current Output DAC*	8-SOIC	4.75	3.16	2.65
LTC1329CS8-50-ND	Micropower 8-Bit, Current Output DAC	8-SOIC	4.75	3.16	2.65
LTC1329CS8-50#PBF-ND	Micropower 8-Bit, Current Output DAC*	8-SOIC	4.75	3.16	2.65
LTC1426CS8-ND	6-Bit, Dual PWM DAC	8-SOIC	6.25	4.15	3.85
LTC1427CS8-50-ND	10-Bit, DAC with SMBus Interface	8-SOIC	6.13	4.07	3.20
LTC1427CS8-50#PBF-ND	10-Bit, DAC with SMBus Interface*	8-SOIC	6.13	4.07	3.20
LTC1840CGN-ND	Dual Fan Controller with 2-Wire Interface	16-SSOP	5.63	3.75	3.00

MUXes and Switches

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1380CS-ND	8-Ch. CMOS Mux with SMBus Interface	16-SOIC	6.13	4.07	3.07
LTC1380IS-ND	8-Ch. CMOS Mux with SMBus Interface	16-SOIC	6.88	4.57	3.55
LTC1390CN-ND	CMOS 8-to-1 Analog Mux with Serial Interface	16-Dip	4.38	2.91	2.35
LTC1390CN#PBF-ND	CMOS 8-to-1 Analog Mux with Serial Interface*	16-Dip	4.38	2.91	2.35
LTC1390CS-ND	CMOS 8-to-1 Analog Mux with Serial Interface	16-SOIC	4.63	3.10	2.45
LTC1390CS#PBF-ND	CMOS 8-to-1 Analog Mux w/Serial Interface*	16-SOIC	4.63	3.10	2.45
LTC1391CS-ND	CMOS 8-to-1 Mux with Cascadable Serial Interface	16-SOIC	4.63	3.10	2.45
LTC1391CS#PBF-ND	CMOS 8-to-1 Mux with Cascadable Serial Interface*	16-SOIC	4.63	3.10	2.45

INTERFACE

RS232/RS562

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1032CN-ND	Quad Low Power Line Driver	14-Dip	4.50	3.00	2.55
LT1032CN#PBF-ND	Quad Low Power Line Driver*	14-Dip	4.50	3.00	2.55
LT1039ACN#PBF-ND	15kV Triple RS232 Driver/Receiver with Shutdown*	18-Dip	5.00	3.35	2.85
LT1039ACSW#PBF-ND	15kV Triple RS232 Driver/Receiver w/Shutdown*	18-SOIC	5.88	3.91	3.35
LT1039CN#PBF-ND	15kV Triple RS232 Driver/Receiver with Shutdown*	18-Dip	4.38	2.92	2.45

***RoHS Compliant**

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1039CSW-ND	15kV Triple RS232 Driver/Receiver w/Shutdown	18-SOIC	5.25	3.50	2.90
LT1039CSW#PBF-ND	15kV Triple RS232 Driver/Receiver w/Shutdown*	18-SOIC	5.25	3.50	2.90
LT1080CN-ND	5V, Dual RS232 Driver/Receiver with Shutdown	18-Dip	5.63	3.75	3.15
LT1080CN#PBF-ND	5V, Dual RS232 Driver/Receiver with Shutdown*	18-Dip	5.63	3.75	3.15
LT1081CN-ND	5V, Dual RS232 Driver/Receiver	16-Dip	4.75	3.17	2.65
LT1081CN#PBF-ND	5V, Dual RS232 Driver/Receiver*	16-Dip	4.75	3.17	2.65
LT1081CSW-ND	5V, Dual RS232 Driver/Receiver	16-SOIC	6.00	4.00	3.35
LT1081CSW#PBF-ND	5V, Dual RS232 Driver/Receiver*	16-SOIC	6.00	4.00	3.35
LT1130ACSW#PBF-ND	5V, RS232, 5 Drivers/5 Receivers*	28-SOIC	7.63	5.10	4.25
LT1130AISW-ND	5V, RS232, 5 Drivers/5 Receivers	28-SOIC	9.13	6.10	5.20
LT1130AISW#PBF-ND	5V, RS232, 5 Drivers/5 Receivers*	28-SOIC	9.13	6.10	5.20
LT1131ACNW-ND	5V, RS232, 5 Drivers/4 Receivers	28-Dip	7.25	4.83	4.00
LT1131ACNW#PBF-ND	5V, RS232, 5 Drivers/4 Receivers*	28-Dip	7.25	4.83	4.00
LT1131ACSW#PBF-ND	5V, RS232, 5 Drivers/4 Receivers*	28-SOIC	7.63	5.08	4.25
LT1132ACN#PBF-ND	5V, RS232, 5 Drivers/3 Receivers*	24-Dip	7.25	4.83	4.00
LT1132ACSW-ND	5V, RS232, 5 Drivers/3 Receivers	24-SOIC	7.63	5.08	4.25
LT1132ACSW#PBF-ND	5V, RS232, 5 Drivers/3 Receivers*	24-SOIC	7.63	5.08	4.25
LT1133ACN#PBF-ND	5V, RS232, 3 Drivers/5 Receivers*	24-Dip	7.25	4.83	4.00
LT1133ACSW#PBF-ND	5V, RS232, 3 Drivers/5 Receivers*	24-SOIC	7.63	5.08	4.25
LT1134ACN-ND	5V, RS232, 4 Drivers/4 Receivers	24-Dip	7.00	4.67	3.75
LT1134ACN#PBF-ND	5V, RS232, 4 Drivers/4 Receivers*	24-Dip	7.00	4.67	3.75
LT1134ACSW#PBF-ND	5V, RS232, 4 Drivers/4 Receivers*	24-SOIC	7.00	4.67	3.75
LT1134AIN#PBF-ND	5V, RS232, 4 Drivers/4 Receivers*	24-Dip	9.00	6.00	5.00
LT1134AISW#PBF-ND	5V, RS232, 4 Drivers/4 Receivers*	24-SOIC	9.00	6.00	5.00
LT1135ACN-ND	5V, RS232, 5 Drivers/3 Receivers	20-Dip	5.88	3.92	3.25
LT1135ACN#PBF-ND	5V, RS232, 5 Drivers/3 Receivers*	20-Dip	5.88	3.92	3.25
LT1135ACSW-ND	5V, RS232, 5 Drivers/3 Receivers	20-SOIC	6.25	4.17	3.45
LT1135ACSW#PBF-ND	5V, RS232, 5 Drivers/3 Receivers*	20-SOIC	6.25	4.17	3.45
LT1137ACG-ND	5V, RS232, 3 Drivers/5 Receivers	28-SSOP	7.75	5.17	4.15
LT1137ACG#PBF-ND	5V, RS232, 3 Drivers/5 Receivers*	28-SSOP	7.75	5.17	4.15
LT1137ACNW#PBF-ND	5V, RS232, 3 Drivers/5 Receivers*	28-Dip	7.00	4.65	3.75
LT1137ACSW-ND	5V, RS232, 3 Drivers/5 Receivers	28-SOIC	7.00	4.67	3.75
LT1137ACSW#PBF-ND	5V, RS232, 3 Drivers/5 Receivers*	28-SOIC	7.00	4.67	3.75
LT1137AIG-ND	5V, RS232, 3 Drivers/5 Receivers	28-SSOP	8.88	5.90	4.85
LT1137AISW-ND	5V, RS232, 3 Drivers/5 Receivers	28-SOIC	8.38	5.58	4.50
LT1140ACN-ND	5V, RS232, 5 Drivers/3 Receivers	24-Dip	5.88	3.92	3.25
LT1180ACN-ND	Low Power, 5V, RS232, Dual Driver/Receiver	18-Dip	4.63	3.08	2.45
LT1180ACN#PBF-ND	Low Power, 5V, RS232, Dual Driver/Receiver*	18-Dip	4.63	3.08	2.45
LT1180ACSW-ND	Low Power, 5V, RS232, Dual Driver/Receiver	18-SOIC	5.13	3.42	2.70
LT1180ACSW#PBF-ND	Low Power, 5V, RS232, Dual Driver/Receiver*	18-SOIC	5.13	3.42	2.70
LT1181ACN#PBF-ND	Low Power, 5V, RS232, Dual Driver/Receiver*	16-Dip	4.63	3.08	2.45
LT1181ACSW#PBF-ND	Low Power, 5V, RS232, Dual Driver/Receiver*	16-SOIC	5.13	3.42	2.70
LT1237CG-ND	5V, RS232 Transceiver with Advanced Power Mgmt. and 1 Receiver Active in Shutdown	28-SSOP	8.13	5.42	4.25
LT1237CNW-ND	5V, RS232 Transceiver with Advanced Power Management and 1 Receiver Active in Shutdown	28-Dip	7.38	4.92	3.95
LT1237CSW-ND	5V, RS232 Transceiver with Advanced Power Management and 1 Receiver Active in Shutdown	28-SOIC	7.38	4.92	3.95
LT1280ACN-ND	Low Power 5V, RS232 Dual Driver/Receiver	18-Dip	5.00	3.33	2.65
LT1280ACN#PBF-ND	Low Power 5V, RS232 Dual Driver/Receiver*	18-Dip	5.00	3.33	2.65
LT1280ACSW-ND	Low Power 5V, RS232 Dual Driver/Receiver	18-SOIC	5.50	3.67	2.90
LT1280ACSW#PBF-ND	Low Power 5V, RS232 Dual Driver/Receiver*	18-SOIC	5.50	3.67	2.90
LT1281ACN#PBF-ND	Low Power 5V, RS232 Dual Driver/Receiver*	16-Dip	5.00	3.33	2.65
LT1281ACSW#PBF-ND	Low Power 5V, RS232 Dual Driver/Receiver*	16-SOIC	5.50	3.67	2.90
LT1330CSW#PBF-ND	5V, RS232 Transceiver with 3V Logic Interface*	28-SOIC	7.38	4.92	3.95
LT1331CG-ND	5V/3V, RS232 Xcvr. with 1 Receiver Active in Shutdown	28-SSOP	8.13	5.42	4.25
LT1331CG#PBF-ND	5V/3V, RS232 Xcvr. with 1 Receiver Active in Shutdown*	28-SSOP	8.13	5.42	4.25
LT1331CNW-ND	5V/3V, RS232 Xcvr. with 1 Receiver Active in Shutdown	28-Dip	7.38	4.92	3.95
LT1341CSW-ND	5V, RS232, 3 Driver/5 Receiver with 1 Receiver Active in Shutdown	28-SOIC	7.38	4.92	3.95
LT1341CSW#PBF-ND	5V, RS232, 3 Driver/5 Receiver with 1 Receiver Active in Shutdown*	28-SOIC	7.38	4.92	3.95
LT1342CG-ND	5V, RS232, 3 Driver/5 Receiver with 3V Logic	28-SSOP	7.75	5.17	4.20
LT1342CG#PBF-ND	5V, RS232, 3 Driver/5 Receiver with 3V Logic*	28-SSOP	7.75	5.17	4.20
LT1381CS-ND	5V, RS232, Dual Driver/Receiver	16-SOIC	3.50	2.33	2.00
LT1381CS#PBF-ND	5V, RS232, Dual Driver/Receiver*	16-SOIC	3.50	2.33	2.00
LT1537CG-ND	5V, Low Power, RS232, 3 Drivers/5 Receivers	28-SSOP	6.00	4.00	3.40
LT1537CG#PBF-ND	5V, Low Power, RS232, 3 Drivers/5 Receivers*	28-SSOP	6.00	4.00	3.40
LT1780CN#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD*	18-Dip	5.25	3.49	2.95
LT1780CSW#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD*	18-SOIC	5.75	3.82	3.25
LT1781CN#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD*	16-Dip	5.25	3.49	2.95
LT1781CS#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD*	16-SOIC	5.63	3.74	3.15
LT1781CSW-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD	16-SOIC	5.75	3.82	3.25
LT1781CSW#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD*	16-SOIC	5.75	3.82	3.25
LT1781IS-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD	16-SOIC	7.00	4.65	3.75
LT1781IS#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD*	16-SOIC	7.00	4.65	3.75
LTC1327CG-ND	3V, 3 Driver/5 Receiver EIA/TIA-562 Transceiver	28-SSOP	9.50	6.35	5.00
LTC1327CNW-ND	3V, 3 Driver/5 Receiver EIA/TIA-562 Transceiver	28-Dip	8.75	5.85	4.70
LTC1327CSW-ND	3V, 3 Driver/5 Receiver EIA/TIA-562 Transceiver	28-SOIC	8.75	5.85	4.70
LTC1337CG#PBF-ND	5V, 3 Driver/5 Receiver RS232 Transceiver*	28-SSOP	9.50	6.35	5.00
LTC1337CNW-ND	5V, 3 Driver/5 Receiver RS232 Transceiver	28-Dip	8.75	5.85	4.70
LTC1337CSW#PBF-ND	5V, 3 Driver/5 Receiver RS232 Transceiver*	28-SOIC	8.75	5.85	4.70
LTC1338CG-ND	5V, 5 Driver/3 Receiver RS232 Transceiver	28-SSOP	10.13	6.75	5.65
LTC1338CG#PBF-ND	5V, 5 Driver/3 Receiver RS232 Transceiver*	28-SSOP	10.13	6.75	5.65
LTC1348CG-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Xcvr.	28-SSOP	8.75	5.85	4.80
LTC1348CG#PBF-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Xcvr.*	28-SSOP	8.75	5.85	4.80
LTC1348CSW#PBF-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Xcvr.*	28-SOIC	8.13	5.45	4.50
LTC1348IG-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Xcvr.	28-SSOP	10.13	6.75	5.80
LTC1348IG#PBF-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Xcvr.*	28-SSOP	10.13	6.75	5.80
LTC1348ISW-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Xcvr.	28-SOIC	9.38	6.25	5.35
LTC1348ISW#PBF-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Xcvr.*	28-SOIC	9.38	6.25	5.35
LTC1349ISW-ND	5V, LP, RS232 3 Driver/5 Receiver Transceiver	28-SOIC	9.63	6.40	5.20
LTC1350CG-ND	3V, EIA/TIA-562, 3 Driver/5 Receiver Transceiver	28-SSOP	9.50	6.35	5.00
LTC1350IG-ND	3V, EIA/TIA-562, 3 Driver/5 Receiver Transceiver	28-SSOP	10.38	6.90	5.50
LTC1350IG#PBF-ND	3V, EIA/TIA-562, 3 Driver/5 Receiver Xcvr.*	28-SSOP	10.38	6.90	5.50

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1382CN-ND	5V, RS232, 2 Driver/2 Receiver Xcvr. w/Shutdown	18-Dip	6.50	4.35	3.40
LTC1382CN#PBF-ND	5V, RS232, 2 Driver/2 Receiver Xcvr. w/Shutdown*	18-Dip	6.50	4.35	3.40
LTC1382CSW#PBF-ND	5V, RS232, 2 Driver/2 Receiver Xcvr. w/SD*	18-SOIC	6.50	4.35	3.40
LTC1383CN#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.*	16-Dip	5.63	3.75	3.00
LTC1383CS#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.*	16-SOIC	5.63	3.75	3.00
LTC1383IS#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.*	16-SOIC	6.50	4.32	3.70
LTC1384CN#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Xcvr.*	18-Dip	6.50	4.35	3.40
LTC1384CSW#PBF-ND	5V, RS232, LP 2 Driver/2 Receiver Xcvr.*	18-SOIC	6.50	4.35	3.40
LTC1385CG#PBF-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Xcvr.*	20-SSOP	7.25	4.85	3.85
LTC1385CN-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Xcvr.	18-Dip	6.50	4.35	3.40
LTC1385CN#PBF-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Xcvr.*	18-Dip	6.50	4.35	3.40
LTC1385CSW#PBF-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Xcvr.*	18-SOIC	6.50	4.35	3.40
LTC1386CS#PBF-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Xcvr.*	16-SOIC	5.63	3.75	3.00
LTC2803CDHC#PBF-ND	1.8V/5.5V, LP, RS232, 2 Driver/2 Receiver Xcvr.*	16-DFN	3.80	2.71	2.24
LTC2803IDHC#PBF-ND	1.8V/5.5V, LP, RS232, 2 Driver/2 Receiver Xcvr.*	16-DFN	4.50	3.21	2.65
LTC2804CGN-1#PBF-ND	1.8V/5.5V, LP, RS232, 2 Driver/2 Receiver Xcvr.*	16-SSOP	3.90	2.79	2.29
LTC2804IGN-1#PBF-ND	1.8V/5.5V, LP, RS232, 2 Driver/2 Receiver Xcvr.*	16-SSOP	4.70	3.36	2.76

RS485/RS422

Digi-Key Part No.	Description	Pkg.	1	25	100
LT1785AIN8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-Dip	5.63	3.75	3.00
LT1785AIS8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	5.75	3.85	3.10
LT1785AIS8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-SOIC	5.75	3.85	3.10
LT1785CN8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-Dip	4.00	2.66	2.10
LT1785CS8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-SOIC	4.13	2.74	2.15
LT1785IN8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-Dip	4.63	3.08	2.40
LT1785IS8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	4.75	3.16	2.45
LT1785IS8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-SOIC	4.75	3.16	2.45
LT1791AIS#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	14-SOIC	6.38	4.25	3.40
LT1791CN-ND	60V, Fault Protected RS485/RS422 Transceiver	14-Dip	4.38	2.91	2.30
LT1791CN#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	14-Dip	4.38	2.91	2.30
LT1791CS#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	14-SOIC	4.50	2.99	2.35
LT1791IS#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver*	8-SOIC	5.13	3.41	2.65
LTC485CN8#PBF-ND	Low Power RS485 Transceiver/Receiver Interface*	8-Dip	2.50	1.66	1.35
LTC485CS8-ND	Low Power RS485 Transceiver/Receiver Interface	8-SOIC	3.13	2.10	1.70
LTC485CS8#PBF-ND	Low Power RS485 Transceiver/Receiver Interface*	8-SOIC	3.13	2.10	1.70
LTC485IN8-ND	Low Power RS485 Interface Transceiver	8-Dip	3.38	2.25	1.90
LTC486CN-ND	Low Power Quad RS485 Driver	16-Dip	6.50	4.35	3.70
LTC486CN#PBF-ND	Low Power Quad RS485 Driver*	16-Dip	6.50	4.35	3.70
LTC486CSW-ND	Low Power Quad RS485 Driver	16-SOIC	7.50	5.00	4.25
LTC486CSW#PBF-ND	Low Power Quad RS485 Driver*	16-SOIC	7.50	5.00	4.25
LTC487CN#PBF-ND	Low Power Quad RS485 Driver*	16-Dip	6.50	4.35	3.70
LTC487CSW#PBF-ND	Low Power Quad RS485 Driver*	16-SOIC	7.50	5.00	4.25
LTC488CN#PBF-ND	Low Power Quad RS485 Receiver*	16-Dip	6.50	4.33	3.70
LTC488CSW#PBF-ND	Low Power Quad RS485 Receiver*	16-SOIC	7.50	5.00	4.25
LTC489CN-ND	Low Power Quad RS485 Receiver	16-Dip	6.50	4.33	3.70
LTC489CN#PBF-ND	Low Power Quad RS485 Receiver*	16-Dip	6.50	4.33	3.70
LTC489CSW#PBF-ND	Low Power Quad RS485 Receiver*	16-SOIC	7.50	5.00	4.25
LTC490CN8-ND	Low Power RS485 Transceiver/Receiver	8-Dip	4.38	2.92	2.50
LTC490CN8#PBF-ND	Low Power RS485 Transceiver/Receiver*	8-Dip	4.38	2.92	2.50
LTC490CS8-ND	Low Power RS485 Transceiver/Receiver	8-SOIC	5.38	3.58	3.05
LTC490CS8#PBF-ND	Low Power RS485 Transceiver/Receiver*	8-SOIC	5.38	3.58	3.05
LTC490IS8#PBF-ND	Low Power RS485/RS422 Transceiver*	8-SOIC	6.38	4.25	3.45
LTC491CN#PBF-ND	Low Power RS485 Transceiver/Receiver*	14-Dip	4.88	3.25	2.80
LTC491CS-ND	Low Power RS485 Transceiver/Receiver	14-SOIC	5.88	3.92	3.25
LTC491CS#PBF-ND	Low Power RS485 Transceiver/Receiver*	14-SOIC	5.88	3.92	3.25
LTC491IS-ND	Low Power RS485/RS422 Transceiver	14-SOIC	7.13	4.75	4.05
LTC491IS#PBF-ND	Low Power RS485/RS422 Transceiver*	14-SOIC	7.13	4.75	4.05
LTC1480CN8-ND	3.3V, Ultra Low Power RS485 Transceiver	8-Dip	4.75	3.16	2.65
LTC1480CN8#PBF-ND	3.3V, Ultra Low Power RS485 Transceiver*	8-Dip	4.75	3.16	2.65
LTC1480CS8#PBF-ND	3.3V, Ultra Low Power RS485 Transceiver*	8-SOIC	5.13	3.41	2.75
LTC1480IS8-ND	3.3V, Ultra LP RS485 Transceiver, Ind. Temp.	8-SOIC	6.63	4.40	3.55
LTC1480IS8#PBF-ND	3.3V, Ultra LP RS485 Transceiver, Ind. Temp*	8-SOIC	6.63	4.40	3.55
LTC1481CN8-ND	Ultra Low Power RS485 Transceiver with Shutdown	8-Dip	2.75	1.85	1.45
LTC1481CN8#PBF-ND	Ultra LP RS485 Transceiver with Shutdown*	8-Dip	2.75	1.85	1.45
LTC1481CS8#PBF-ND	Ultra LP RS485 Transceiver with Shutdown*	8-SOIC	3.38	2.25	1.80
LTC1481IS8#PBF-ND	Ultra LP RS485 Transceiver with Shutdown*	8-SOIC	4.38	2.91	2.40
LTC1482CMS8-ND	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe	8-MSOP	4.88	3.25	2.55
LTC1482CMS8#PBF-ND	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe*	8-MSOP	4.88	3.25	2.55
LTC1482CS8-ND	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe	8-SOIC	4.13	2.75	2.15
LTC1482CS8#PBF-ND	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe*	8-SOIC	4.13	2.75	2.15
LTC1483CN8#PBF-ND	Ultra Low Power, Low EMI RS485 Transceiver*	8-Dip	2.75	1.85	1.55
LTC1483CS8-ND	Ultra Low Power, Low EMI RS485 Transceiver	8-SOIC	3.38	2.25	1.90
LTC1483CS8#PBF-ND	Ultra Low Power, Low EMI RS485 Transceiver*	8-SOIC	3.38	2.25	1.90
LTC1483IS8#PBF-ND	Ultra Low Power, Low EMI RS485 Transceiver*	8-SOIC	4.38	2.91	2.40
LTC1484CMS8-ND	LP RS485 Transceiver with Receiver Fail Safe	8-MSOP	4.25	2.85	2.20
LTC1484CMS8#PBF-ND	LP RS485 Transceiver with Receiver Fail Safe*	8-MSOP	4.25	2.85	2.20
LTC1484CN8-ND	LP RS485 Transceiver with Receiver Fail Safe	8-Dip	3.38	2.25	1.75
LTC1484CN8#PBF-ND	LP RS485 Transceiver with Receiver Fail Safe*	8-Dip	3.38	2.25	1.75
LTC1484CS8-ND	LP RS485 Transceiver with Receiver Fail Safe	8-SOIC	3.50	2.35	1.80
LTC1484CS8#PBF-ND	LP RS485 Transceiver with Receiver Fail Safe*	8-SOIC	3.50	2.35	1.80
LTC1484IS8#PBF-ND	LP RS485 Xcvr. with Rcvr. Fail Safe, Ind. Temp*	8-SOIC	4.63	3.10	2.45
LTC1485CN8#PBF-ND	Differential Bus Transceiver*	8-Dip	3.00	2.00	1.70
LTC1485CS8#PBF-ND	Differential Bus Transceiver*	8-SOIC	3.38	2.25	1.90
LTC1487CN8#PBF-ND	Ultra Low Power RS485 Transceiver with Low EMI, Shutdown, High Input Impedance*	8-Dip	2.75	1.85	1.55
LTC1487CS8#PBF-ND	Ultra Low Power RS485 Transceiver with Low EMI, Shutdown, High Input Impedance*	8-SOIC	3.38	2.25	1.90
LTC1518CS#PBF-ND	High Speed Precision Delay RS485 Quad Line Receiver*	16-SOIC	10.13	6.73	5.80
LTC1518IS#PBF-ND	High Speed Precision Delay RS485 Quad Line Receiver*	16-SOIC	11.63	7.75	6.20
LTC1519CS-ND	High Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	10.13	6.75	5.80

***RoHS Compliant** *(Continued)*

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LINEAR TECHNOLOGY Digi-Reel® INTERFACE *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1519CS#PBF-ND	HS Precision Delay RS485 Quad Line Receiver*	16-SOIC	10.13	6.75	5.80
LTC1519IS-ND	HS Precision Delay RS485 Quad Line Receiver	16-SOIC	11.63	7.75	6.20
LTC1519IS#PBF-ND	HS Precision Delay RS485 Quad Line Receiver*	16-SOIC	11.63	7.75	6.20
LTC1535ISW#PBF-ND	Isolated RS485 Transceiver*	28-SOIC	12.75	8.47	6.50
LTC1685CS8#PBF-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver*	8-SOIC	5.63	3.74	3.15
LTC1685IS8-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver	8-SOIC	6.50	4.32	3.40
LTC1685IS8#PBF-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver*	8-SOIC	6.50	4.32	3.40
LTC1686CS8#PBF-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver*	8-SOIC	8.38	5.57	4.50
LTC1686IS8-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver	8-SOIC	9.63	6.40	5.00
LTC1686IS8#PBF-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver*	8-SOIC	9.63	6.40	5.00
LTC1687CS-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver	14-SOIC	8.38	5.57	4.50
LTC1687CS#PBF-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver*	14-SOIC	8.38	5.57	4.50
LTC1687IS#PBF-ND	52Mbps Prec. Delay RS485 Fail-Safe Transceiver*	14-SOIC	9.63	6.40	5.00
LTC1688CS-ND	100Mbps RS485 Hot Swap Quad Driver	16-SOIC	10.13	6.73	5.25
LTC1688CS#PBF-ND	100Mbps RS485 Hot Swap Quad Driver*	16-SOIC	10.13	6.73	5.25
LTC1688IS-ND	100Mbps RS485 Hot Swap Quad Dvr. Ind. Temp.	16-SOIC	11.63	7.75	6.20
LTC1688IS#PBF-ND	100Mbps RS485 Hot Swap Quad Dvr. Ind. Temp.*	16-SOIC	11.63	7.75	6.20
LTC1689CS#PBF-ND	100Mbps RS485 Hot Swap Quad Driver*	16-SOIC	10.13	6.73	5.25
LTC1689IS-ND	100Mbps RS485 Hot Swap Quad Dvr. Ind. Temp.	16-SOIC	11.63	7.75	6.20
LTC1689IS#PBF-ND	100Mbps RS485 Hot Swap Quad Dvr. Ind. Temp.*	16-SOIC	11.63	7.75	6.20
LTC2850CDD#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	8-DFN	2.90	2.07	1.71
LTC2850IMS8#PBF-ND	3.3V, 20Mbps RS485/RS422 Xcvr., Ind. Temp.*	8-MSOP	3.48	2.48	2.04
LTC2850IS8#PBF-ND	3.3V, 20Mbps RS485/RS422 Xcvr., Ind. Temp.*	8-SOIC	3.48	2.48	2.04
LTC2851CDD#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	8-DFN	3.10	2.21	1.82
LTC2851IDD#PBF-ND	3.3V, 20Mbps RS485/RS422 Xcvr., Ind. Temp.*	8-DFN	3.70	2.64	2.18
LTC2851IMS8#PBF-ND	3.3V, 20Mbps RS485/RS422 Xcvr., Ind. Temp.*	8-MSOP	3.70	2.64	2.18
LTC2851IS8#PBF-ND	3.3V, 20Mbps RS485/RS422 Xcvr., Ind. Temp.*	8-SOIC	3.70	2.64	2.18
LTC2852CDD#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	10-DFN	3.10	2.21	1.82
LTC2852CMS#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	10-MSOP	3.10	2.21	1.82
LTC2852CS#PBF-ND	3.3V, 20Mbps RS485/RS422 Transceiver*	14-SOIC	3.10	2.21	1.82
LTC2852IDD#PBF-ND	3.3V, 20Mbps RS485/RS422 Xcvr., Ind. Temp.*	10-DFN	3.70	2.64	2.18
LTC2852IMS#PBF-ND	3.3V, 20Mbps RS485/RS422 Xcvr., Ind. Temp.*	10-MSOP	3.70	2.64	2.18
LTC2852IS#PBF-ND	3.3V, 20Mbps RS485/RS422 Xcvr., Ind. Temp.*	14-SOIC	3.70	2.64	2.18
LTC2856CMS8-1#PBF-ND	20Mbps and Slew Rate Limited 15kV RS485/RS422 Transceiver*	8-MSOP	2.90	2.07	1.71
LTC2856IMS8-1#PBF-ND	20Mbps and Slew Rate Limited 15kV RS485/RS422 Transceiver*	8-MSOP	3.48	2.48	2.04
LTC2856CMS8-2#PBF-ND	20Mbps and Slew Rate Limited 15kV RS485/RS422 Transceiver*	8-MSOP	2.90	2.07	1.71
LTC2856IMS8-2#PBF-ND	20Mbps and Slew Rate Limited 15kV RS485/RS422 Transceiver*	8-MSOP	3.48	2.48	2.04
LTC2857CMS8-1#PBF-ND	20Mbps and Slew Rate Limited 15kV RS485/RS422 Transceiver*	8-MSOP	3.10	2.21	1.82
LTC2857IMS8-1#PBF-ND	20Mbps and Slew Rate Limited 15kV RS485/RS422 Transceiver*	8-MSOP	3.70	2.64	2.18
LTC2857CMS8-2#PBF-ND	20Mbps and Slew Rate Limited 15kV RS485/RS422 Transceiver*	8-MSOP	3.10	2.21	1.82
LTC2857IMS8-2#PBF-ND	20Mbps and Slew Rate Limited 15kV RS485/RS422 Transceiver*	8-MSOP	3.70	2.64	2.18
LTC2858CMS-1#PBF-ND	20Mbps and Slew Rate Limited 15kV RS485/RS422 Transceiver*	10-MSOP	3.10	2.21	1.82
LTC2858IMS-1#PBF-ND	20Mbps and Slew Rate Limited 15kV RS485/RS422 Transceiver*	10-MSOP	3.70	2.64	2.18
LTC2858CMS-2#PBF-ND	20Mbps and Slew Rate Limited 15kV RS485/RS422 Transceiver*	10-MSOP	3.10	2.21	1.82
LTC2858IMS-2#PBF-ND	20Mbps and Slew Rate Limited 15kV RS485/RS422 Transceiver*	10-MSOP	3.70	2.64	2.18
LTC2859CDD#PBF-ND	20Mbps RS485 Transceiver with Integrated Switchable Termination*	10-DFN	3.18	2.27	1.87
LTC2859IDD#PBF-ND	20Mbps RS485 Transceiver with Integrated Switchable Termination*	10-DFN	3.83	2.73	2.25
LTC1690CS8#PBF-ND	LP Driver/Receiver with Fail-Safe Receiver Output*	8-SOIC	3.50	2.35	1.80

CAN

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1796CS8#PBF-ND	Overvoltage Fault Protected CAN Transceiver*	8-SOIC	3.00	2.00	1.65

Multiprotocol

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1321CSW#PBF-ND	RS485/RS232/EIA562 Xcvr./Receiver, Ind. Temp*	24-SOIC	8.75	5.85	4.65
LTC1322CN-ND	RS485/RS232/EIA562 Transceiver/Receiver	24-Dip	10.00	6.65	5.35
LTC1322CSW#PBF-ND	RS485/RS232/EIA562 Transceiver/Receiver*	24-SOIC	10.00	6.65	5.35
LTC1334CG#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Xcvr.*	28-SSOP	13.00	8.64	7.45
LTC1334CNW-ND	CMOS 5V, RS232/RS485 Multiprotocol Xcvr.	28-Dip	12.25	8.15	7.00
LTC1334CNW#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Xcvr.*	28-Dip	12.25	8.15	7.00
LTC1334CSW-ND	CMOS 5V, RS232/RS485 Multiprotocol Xcvr.	28-SOIC	12.25	8.15	7.00
LTC1334CSW#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Xcvr.*	28-SOIC	12.25	8.15	7.00
LTC1334ISW#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Xcvr.*	28-SOIC	14.25	9.50	8.15
LTC1343CGW#PBF-ND	Software Selectable Multiprotocol Transceiver*	44-SSOP	23.50	15.65	13.40
LTC1343IGW#PBF-ND	Software Selectable Multiprotocol Transceiver*	44-SSOP	27.00	17.93	14.40
LTC1344ACG-ND	Multiprotocol Cable Terminator	24-SSOP	13.63	9.05	6.82
LTC1344ACG#PBF-ND	Multiprotocol Cable Terminator*	24-SSOP	13.63	9.05	6.82
LTC1344CG-ND	Multiprotocol Cable Terminator	24-SSOP	13.63	9.05	6.82
LTC1344CG#PBF-ND	Multiprotocol Cable Terminator*	24-SSOP	13.63	9.05	6.82
LTC1344IG-ND	Multiprotocol Cable Terminator	24-SSOP	15.63	10.38	8.35
LTC1344IG#PBF-ND	Multiprotocol Cable Terminator*	24-SSOP	15.63	10.38	8.35
LTC1345CNW-ND	Single Supply V.35 Differential Transceiver	28-Dip	13.88	9.25	7.40
LTC1345CSW-ND	Single Supply V.35 Differential Transceiver	28-SOIC	14.38	9.60	7.65
LTC1345CSW#PBF-ND	Single Supply V.35 Differential Transceiver*	28-SOIC	14.38	9.60	7.65
LTC1346ACSW#PBF-ND	10mbps DCE/DTE V.35 Transceiver*	24-SOIC	12.38	8.25	7.10
LTC1387CG-ND	5V, Single RS232/RS485 Transceiver	20-SSOP	9.13	6.10	5.20
LTC1387CG#PBF-ND	5V, Single RS232/RS485 Transceiver*	20-SSOP	9.13	6.10	5.20
LTC1387CSW-ND	5V, Single RS232/RS485 Transceiver	20-SOIC	8.50	5.65	4.85
LTC1387CSW#PBF-ND	5V, Single RS232/RS485 Transceiver*	20-SOIC	8.50	5.65	4.85
LTC1387IG-ND	5V, Single RS232/RS485 Transceiver Ind. Temp.	20-SSOP	10.50	7.00	6.00
LTC1387IG#PBF-ND	5V, Single RS232/RS485 Transceiver Ind. Temp.*	20-SSOP	10.50	7.00	6.00
LTC1387ISW-ND	5V, Single RS232/RS485 Transceiver Ind. Temp.	20-SOIC	9.75	6.50	5.60
LTC1387ISW#PBF-ND	5V, Single RS232/RS485 Transceiver Ind. Temp*	20-SOIC	9.75	6.50	5.60
LTC1543CG#PBF-ND	Software Selectable Multiprotocol Transceiver*	28-SSOP	14.88	9.88	7.45
LTC1544CG-ND	Software Selectable Multiprotocol Transceiver	28-SSOP	12.25	8.14	6.15
LTC1544CG#PBF-ND	Software Selectable Multiprotocol Transceiver*	28-SSOP	12.25	8.14	6.15
LTC1545CG-ND	Software Selectable Multiprotocol Transceiver	36-SSOP	14.38	9.55	7.20
LTC2844CG#PBF-ND	3.3V Software Selectable Multiprotocol Xcvr.*	28-SSOP	11.88	7.89	6.15
LTC2845CG-ND	3.3V Software Selectable Multiprotocol Xcvr.	36-SSOP	13.88	9.22	7.20
LTC2846CG-ND	3.3V Software Selectable Multiprotocol Xcvr.	36-SSOP	23.75	16.96	13.97
LTC2846CG#PBF-ND	3.3V Software Selectable Multiprotocol Xcvr.*	36-SSOP	23.75	16.96	13.97

I²C and SMBus

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1694CS5#TRMPBFCT-ND	Dual SMBus Accelerator*	SOT-23-5	3.16	2.83	2.55
LTC1694CS5#TRMPBFTR-ND	Dual SMBus Accelerator*	SOT-23-5	700.00/500		
LTC1694-1IS5#TRMPBFCT-ND	SMBus/I²C Accelerator*	SOT-23-5	3.72	3.33	3.00
LTC1694-1IS5#TRMPBFTR-ND	SMBus/I²C Accelerator*	SOT-23-5	900.00/500		
LTC4300-1CMS8-ND	Hot Swap 2-Wire Bus Buffer	8-MSOP	3.50	2.35	2.00
LTC4300-1CMS8#PBF-ND	Hot Swap 2-Wire Bus Buffer*	8-MSOP	3.50	2.35	2.00
LTC4300A-1CMS8-ND	Hot Swap 2-Wire Bus Buffer	8-MSOP	3.50	2.35	2.00
LTC4300A-1CMS8#PBF-ND	Hot Swap 2-Wire Bus Buffer*	8-MSOP	3.50	2.35	2.00
LTC4302CMS-2-ND	Addressable 2-Wire Bus Buffer	10-MSOP	5.00	3.32	2.70
LTC4305CDHD#PBF-ND	2-Channel, 2-Wire Bus Multiplexer*	16-DFN	5.70	4.07	3.35
LTC4305CGN#PBF-ND	2-Channel, 2-Wire Bus Multiplexer*	16-SSOP	5.60	4.00	3.29
LTC4305IDHD#PBF-ND	2-Channel, 2-Wire Bus Multiplexer*	16-DFN	6.80	4.86	4.00
LTC4305IGN#PBF-ND	2-Channel, 2-Wire Bus Multiplexer*	16-SSOP	6.70	4.79	3.94
LTC4306CGN#PBF-ND	4-Channel, 2-Wire Bus Multiplexer*	24-SSOP	7.00	5.00	4.12
LTC4306CUFD#PBF-ND	4-Channel, 2-Wire Bus Multiplexer*	24-QFN	7.10	5.07	4.18
LTC4306IGN#PBF-ND	4-Channel, 2-Wire Bus Multiplexer*	24-SSOP	8.40	6.00	4.94
LTC4306IUFD#PBF-ND	4-Channel, 2-Wire Bus Multiplexer*	24-QFN	8.50	6.07	5.00
LTC4307CDD#PBF-ND	Low Offset Hot Swappable 2-Wire Bus Buffer*	8-DFN	4.30	3.07	2.53
LTC4307CDD-1#PBF-ND	HDMI Level-Shifting 2-Wire Bus Buffer*	8-DFN	4.30	3.07	2.53
LTC4307CMS8#PBF-ND	Low Offset Hot Swappable 2-Wire Bus Buffer*	8-MSOP	4.30	3.07	2.53
LTC4307CMS8-1#PBF-ND	HDMI Level-Shifting 2-Wire Bus Buffer*	8-MSOP	4.30	3.07	2.53
LTC4307IDD#PBF-ND	Low Offset Hot Swappable 2-Wire Bus Buffer*	8-DFN	5.15	3.68	3.03
LTC4307IDD-1#PBF-ND	HDMI Level-Shifting 2-Wire Bus Buffer*	8-DFN	5.15	3.68	3.03
LTC4307IMS8#PBF-ND	Low Offset Hot Swappable 2-Wire Bus Buffer*	8-MSOP	5.15	3.68	3.03
LTC4307IMS8-1#PBF-ND	HDMI Level-Shifting 2-Wire Bus Buffer*	8-MSOP	5.15	3.68	3.03

LINEAR TECHNOLOGY SPECIALIZED ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1025ACN8-ND	MPU Thermocouple Cold Junction Compensator	8-Dip	8.63	5.75	4.75
LT1025ACN8#PBF-ND	MPU Thermocouple Cold Junction Compensator*	8-Dip	8.63	5.75	4.75
LT1025CN8#PBF-ND	MPU Thermocouple Cold Junction Compensator*	8-Dip	4.63	3.08	2.65
LT1203CN8#PBF-ND	2-Input, 150MHz Video Multiplexer*	8-Dip	3.13	2.08	1.57
LT1203CS8-ND	2-Input, 150MHz Video Multiplexer	8-SOIC	3.38	2.25	1.69
LT1203CS8#PBF-ND	2-Input, 150MHz Video Multiplexer*	8-SOIC	3.38	2.25	1.69
LT1204CSW#PBF-ND	4-Input Video Mux with 75MHz Current Feedback*	16-SOIC	9.75	6.50	5.40
LT1205CS-ND	4-Input, 150MHz, Dual Video Multiplexer	16-SOIC	5.38	3.57	2.70
LT1205CS#PBF-ND	4-Input, 150MHz, Dual Video Multiplexer*	16-SOIC	5.38	3.57	2.70
LT1319CS-ND	Infrared Receiver Building Block	16-SOIC	7.25	4.83	3.95
LT1675CGN#PBF-ND	Triple, High Speed RGB Multiplexer*	16-SSOP	6.63	4.40	3.55
LT1675CMS8-1#PBF-ND	Single, High Speed RGB Multiplexer*	8-MSOP	4.50	2.99	2.30
LT1675CS8-1#PBF-ND	Single, High Speed RGB Multiplexer*	8-SOIC	4.13	2.74	2.07
LTC1041CN8-ND	CMOS Bang-Bang Controller	8-Dip	3.38	2.25	1.90
LTC1041CN8#PBF-ND	CMOS Bang-Bang Controller*	8-Dip	3.38	2.25	1.90
LTC1043CN-ND	Dual, Precision Instr. Switched-Cap Building Block	18-Dip	5.13	3.42	2.95
LTC1043CN#PBF-ND	Dual, Precision Instr. Switched-Cap Building Block*	18-Dip	5.13	3.42	2.95
LTC1043CSW-ND	Dual, Prec. Instr. Switched-Cap Building Block	18-SOIC	5.63	3.75	3.10
LTC1043CSW#PBF-ND	Dual, Prec. Instr. Switched-Cap Building Block*	18-SOIC	5.63	3.75	3.10
LTC1045CN#PBF-ND	Prog. µpower Hex Translator/Receiver/Driver*	20-Dip	5.25	3.50	2.95
LTC1045CSW#PBF-ND	Prog. µpower Hex Translator/Receiver/Driver*	20-SOIC	8.25	5.50	4.75
LTC1923EUH#PBF-ND	High Efficiency Thermoelectric Cooler Controller*	32-QFN	39.30	28.07	23.12
LTK001ACN8#PBF-ND	Thermocouple Compensated IC/Amp Kit (.5°C Error)*	8-Dip	18.88	12.60	10.85
LTK001CN8#PBF-ND	Thermocouple Compensated IC/Amp Kit (2°C Error)*	8-Dip	9.88	6.60	5.75

SEMTECH Digi-Reel® CIRCUIT PROTECTION *RoHS Compliant*

ESD/EMI Protection

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ECLAMP2342NCT-ND	ESD/EMI Protection for Color LCD Interfaces	16-QFN	.98	.65	.55
ECLAMP2342NTR-ND	ESD/EMI Protection for Color LCD Interfaces	16-QFN	1581.00/3,000		
ECLAMP2357NCT-ND	EMI Filter and ESD Protection for Secure Digital Card Interface	16-QFN	1.00	.67	.56
ECLAMP2357NTR-ND	EMI Filter and ESD Protection for Secure Digital Card Interface	16-QFN	1620.00/3,000		

Surge Protection

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LC01-6CT-ND	Low Cap. TVS for HS Telecommunication Systems	16-SOIC	6.88	4.57	3.85
LC01-6TR-ND	Low Cap. TVS for HS Telecommunication Systems	16-SOIC	3713.00/1,000		
LC03-3.3CT-ND	Low Capacitance 3.3V TVS for High Speed Interfaces	8-SOIC	2.88	1.91	1.73
LC03-3.3TR-ND	Low Capacitance 3.3V TVS for High Speed Interfaces	8-SOIC	805.00/500		
LC03-6CT-ND	Low Capacitance TVS for High Speed Data Interfaces	8-SOIC	2.50	1.66	1.50
LC03-6TR-ND	Low Capacitance TVS for High Speed Data Interfaces	8-SOIC	700.00/500		
LCDA12C-1CT-ND	Low Capacitance TVS High Speed Data Interfaces	SOT-143	1.38	.92	.77
LCDA12C-1TR-ND	Low Capacitance TVS High Speed Data Interfaces	SOT-143	2229.00/3,000		
LCDA24C-1CT-ND	Low Capacitance TVS High Speed Data Interfaces	SOT-143	.88	.59	.49
LCDA24C-1TR-ND	Low Capacitance TVS High Speed Data Interfaces	SOT-143	1419.00/3,000		
RCLAMP0502BCT-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection	SC-75	.55	.37	.31
RCLAMP0502BTR-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection	SC-75	891.00/3,000		
RCLAMP0502NCT-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection ***NEW!***	6-SLP	.45	.30	.26
RCLAMP0502NTR-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection ***NEW!***	6-SLP	729.00/3,000		
RCLAMP0504FCT-ND	Low Capacitance TVS Array	SC-70-6	.80	.54	.45
RCLAMP0504FTR-ND	Low Capacitance TVS Array	SC-70-6	1296.00/3,000		
RCLAMP0504MCT-ND	Low Capacitance TVS Diode Array	10-MSOP	1.03	.69	.58
RCLAMP0504MTR-ND	Low Capacitance TVS Diode Array	10-MSOP	277.00/500		
RCLAMP0504NCT-ND	Low Capacitance TVS Diode Array	6-SLP	.83	.55	.47
RCLAMP0504NTR-ND	Low Capacitance TVS Diode Array	6-SLP	1338.00/3,000		
RCLAMP0504SCT-ND	Low Capacitance TVS Array	SOT-23-6	.55	.37	.31
RCLAMP0504STR-ND	Low Capacitance TVS Array	SOT-23-6	891.00/3,000		
RCLAMP0508MCT-ND	Low Capacitance TVS Diode Array	10-MSOP	2.13	1.42	1.19
RCLAMP0508MTR-ND	Low Capacitance TVS Diode Array	10-MSOP	574.00/500		
RCLAMP0514MCT-ND	Low Capacitance TVS Diode Array	10-MSOP	.93	.62	.52
RCLAMP0514MTR-ND	Low Capacitance TVS Diode Array	10-MSOP	250.00/500		
RCLAMP0521PCT-ND	Ultra-Low Cap. TVS 1-Line ESD/CDE Protection ***NEW!***	2-SLP	.45	.30	.26
RCLAMP0521PTR-ND	Ultra-Low Cap. TVS 1-Line ESD/CDE Protection ***NEW!***	2-SLP	729.00/3,000		
RCLAMP0524JCT-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection ***NEW!***	8-SLP	.70	.47	.40
RCLAMP0524JTR-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection ***NEW!***	8-SLP	1134.00/3,000		
RCLAMP0524PCT-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection ***NEW!***	10-SLP	.73	.49	.41
RCLAMP0524PTR-ND	Ultra-Low Cap. TVS Array for ESD/CDE Protection ***NEW!***	10-SLP	1176.00/3,000		
RCLAMP0544MCT-ND	TVS Array for HDMI Interface Protection	10-MSOP	.93	.62	.52
RCLAMP0544MTR-ND	TVS Array for HDMI Interface Protection	10-MSOP	250.00/500		
RCLAMP2504NCT-ND	2.5V Low Capacitance TVS Array ***NEW!***	10-SLP	1.00	.67	.56

***RoHS Compliant**

(Continued)

SEMTECH Digi-Reel®

CIRCUIT PROTECTION *(Continued)*
RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
RCLAMP2504NTR-ND	2.5V Low Capacitance TVS Array ***NEW!***	10-SLP	1620.00/3,000		
RCLAMP2504PCT-ND	2.5V Low Capacitance TVS Array ***NEW!***	6-SLP	.55	.37	.31
RCLAMP2504PTR-ND	2.5V Low Capacitance TVS Array ***NEW!***	6-SLP	891.00/3,000		
RCLAMP3304NCT-ND	3.3V Low Capacitance TVS Array	10-SLP	1.45	.97	.82
RCLAMP3304NTR-ND	3.3V Low Capacitance TVS Array	10-SLP	2349.00/3,000		
RCLAMP3304PCT-ND	3.3V Low Capacitance TVS Array ***NEW!***	6-SLP	.50	.34	.28
RCLAMP3304PTR-ND	3.3V Low Capacitance TVS Array ***NEW!***	6-SLP	810.00/3,000		
RCLAMP7002MCT-ND	Low Capacitance TVS Diode Array	10-MSOP	1.45	.97	.82
RCLAMP7002MTR-ND	Low Capacitance TVS Diode Array	10-MSOP	391.50/500		
SD05CT-ND	Single Line TVS Diode for ESD Protection in Portable Electronics	SOD-323	.38	.25	.21
SD05TR-ND	Single Line TVS Diode for ESD Protection in Portable Electronics	SOD-323	609.00/3,000		
SD05CCT-ND	Single Line TVS Diode for ESD Protection in Portable Electronics	SOD-323	.50	.34	.28
SD05CTR-ND	Single Line TVS Diode for ESD Protection in Portable Electronics	SOD-323	810.00/3,000		
SD24CCT-ND	Single Line TVS Diode for ESD Protection in Portable Electronics	SOD-323	.48	.32	.27
SD24CTR-ND	Single Line TVS Diode for ESD Protection in Portable Electronics	SOD-323	771.00/3,000		
SDC15CT-ND	TVS Diode Array for ESD Protection of 12V Data and Power Lines	SOT-23	.55	.37	.31
SDC15TR-ND	TVS Diode Array for ESD Protection of 12V Data and Power Lines	SOT-23	891.00/3,000		
SL05CT-ND	Low Capacitance TVS Diode for High Speed Data Interfaces ***NEW!***	SOT-23	.58	.39	.33
SL05TR-ND	Low Capacitance TVS Diode for High Speed Data Interfaces ***NEW!***	SOT-23	931.50/3,000		
SLVU2.8-4CT-ND	EPD TVS Diode Array for ESD and Latch-up Protection	8-SOIC	2.88	1.91	1.61
SLVU2.8-4TR-ND	EPD TVS Diode Array for ESD and Latch-up Protection	8-SOIC	776.50/500		
SLVU2.8-8CT-ND	EPD TVS Diode Array for ESD and Latch-up Protection	8-SOIC	4.00	2.66	2.24
SLVU2.8-8TR-ND	EPD TVS Diode Array for ESD and Latch-up Protection	8-SOIC	1080.00/500		
SM05CT-ND	TVS Diode Array	SOT-23	.48	.32	.27
SM05TR-ND	TVS Diode Array	SOT-23	771.00/3,000		
SM12CT-ND	TVS Diode Array	SOT-23	.48	.32	.27
SM12TR-ND	TVS Diode Array	SOT-23	771.00/3,000		
SM15CT-ND	TVS Diode Array	SOT-23	.48	.32	.27
SM15TR-ND	TVS Diode Array	SOT-23	771.00/3,000		
SM24CT-ND	TVS Diode Array	SOT-23	.48	.32	.27
SM24TR-ND	TVS Diode Array	SOT-23	771.00/3,000		
SM36CT-ND	TVS Diode Array	SOT-23	.48	.32	.27
SM36TR-ND	TVS Diode Array	SOT-23	771.00/3,000		
SM712CT-ND	Asymmetrical TVS Diode for Extended Common Mode RS-485	SOT-23	1.20	.80	.68
SM712TR-ND	Asymmetrical TVS Diode for Extended Common Mode RS-485	SOT-23	1944.00/3,000		
SMF05CCT-ND	TVS Diode Array for ESD and Latch-up Protection	SC70-6	.45	.30	.26
SMF05CTR-ND	TVS Diode Array for ESD and Latch-up Protection	SC70-6	729.00/3,000		
SMS05CCT-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	.98	.65	.55
SMS05CTR-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	1581.00/3,000		
SMS05CT-ND	TVS Diode Array for ESD and Latch-up Protection ***NEW!***	SOT-23-6	.93	.62	.52
SMS05TR-ND	TVS Diode Array for ESD and Latch-up Protection ***NEW!***	SOT-23-6	1579.50/3,000		
SMS12CT-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	.93	.62	.52
SMS12TR-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	1500.00/3,000		
SMS12CCT-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	.98	.65	.55
SMS12CTR-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	1581.00/3,000		
SR05CT-ND	Low Capacitance TVS Diode Array	SOT-143	1.50	1.00	.84
SR05TR-ND	Low Capacitance TVS Diode Array	SOT-143	2430.00/3,000		
SR12CT-ND	Low Capacitance TVS Diode Array	SOT-143	1.38	.92	.77
SR12TR-ND	Low Capacitance TVS Diode Array	SOT-143	2229.00/3,000		
SR3.3CT-ND	Low Capacitance TVS Diode Array	SOT-143	1.63	1.08	.91
SR3.3TR-ND	Low Capacitance TVS Diode Array	SOT-143	2634.00/3,000		
SR70CT-ND	Low Capacitance TVS Diode Array	SOT-143	.68	.45	.38
SR70TR-ND	Low Capacitance TVS Diode Array	SOT-143	1095.00/3,000		
SRDA05-4CT-ND	Low Capacitance TVS Diode Array	8-SOIC	2.15	1.43	1.21
SRDA05-4TR-ND	Low Capacitance TVS Diode Array	8-SOIC	580.50/500		
SRDA3.3-4CT-ND	Low Capacitance TVS Diode Array	8-SOIC	2.15	1.43	1.21
SRDA3.3-4TR-ND	Low Capacitance TVS Diode Array	8-SOIC	580.50/500		
SRV05-4CT-ND	Low Capacitance TVS Diode Array	SOT-23-6	.93	.62	.52
SRV05-4TR-ND	Low Capacitance TVS Diode Array	SOT-23-6	1500.00/3,000		
STF203-15CT-ND	USB Upstream Port Filter and TVS for EMI Filtering and ESD Protection	SC70-6	.53	.35	.30
STF203-15TR-ND	USB Upstream Port Filter and TVS for EMI Filtering and ESD Protection	SC70-6	852.00/3,000		
STF203-22CT-ND	USB Upstream Port Filter and TVS for EMI Filtering and ESD Protection	SC70-6	.53	.35	.30
STF203-22TR-ND	USB Upstream Port Filter and TVS for EMI Filtering and ESD Protection	SC70-6	852.00/3,000		
STF203-33CT-ND	USB Upstream Port Filter and TVS for EMI Filtering and ESD Protection	SC70-6	.53	.35	.30
STF203-33TR-ND	USB Upstream Port Filter and TVS for EMI Filtering and ESD Protection	SC70-6	852.00/3,000		
STF701CT-ND	T-Filter with TVS Diode Array for EMI Filtering and ESD Protection	SC70-5	.78	.52	.44
STF701TR-ND	T-Filter with TVS Diode Array for EMI Filtering and ESD Protection	SC70-5	1257.00/3,000		
TCLAMP0602NCT-ND	2-Line Low Cap. TVS Diode Array for Ethernet/Telecom	10-SLP	2.00	1.33	1.12
TCLAMP0602NTR-ND	2-Line Low Cap. TVS Diode Array for Ethernet/Telecom	10-SLP	3240.00/3,000		
TCLAMP3302NCT-ND	2-Line Low Capacitance TVS Diode Array for Ethernet/Telecom ***NEW!***	10-SLP	2.88	1.91	1.61
TCLAMP3302NTR-ND	2-Line Low Capacitance TVS Diode Array for Ethernet/Telecom ***NEW!***	10-SLP	4657.50/3,000		
UCLAMP0501HCT-ND	1-Line ESD Protection Array	SOD-523	.40	.27	.23
UCLAMP0501HTR-ND	1-Line ESD Protection Array	SOD-523	648.00/3,000		
UCLAMP0502PCT-ND	2-Line ESD Protection Array ***NEW!***	3-SLP	.35	.24	.20
UCLAMP0502PTR-ND	2-Line ESD Protection Array ***NEW!***	3-SLP	567.00/3,000		
UCLAMP0504ACT-ND	4-Line ESD Protection Array	SC-89-6	.40	.27	.23
UCLAMP0504ATR-ND	4-Line ESD Protection Array	SC-89-6	648.00/3,000		
UCLAMP0505ACT-ND	5-Line ESD Protection Array	SC-89-6	.43	.29	.24
UCLAMP0505ATR-ND	5-Line ESD Protection Array	SC-89-6	690.00/3,000		
UCLAMP0506ACT-ND	5-Line ESD Protection Array	SC-89-6	.50	.34	.28
UCLAMP0506ATR-ND	5-Line ESD Protection Array	SC-89-6	810.00/3,000		
UCLAMP0511PCT-ND	1-Line ESD Protection Array ***NEW!***	2-SLP	.53	.35	.30
UCLAMP0511PTR-ND	1-Line ESD Protection Array ***NEW!***	2-SLP	850.50/3,000		
UCLAMP1201HCT-ND	1-Line ESD Protection Array	SOD-523	.40	.27	.23
UCLAMP1201HTR-ND	1-Line ESD Protection Array	SOD-523	648.00/3,000		
UCLAMP1211PCT-ND	1-Line ESD Protection Array ***NEW!***	2-SLP	.45	.30	.26
UCLAMP1211PTR-ND	1-Line ESD Protection Array ***NEW!***	2-SLP	729.00/3,000		
UCLAMP3301DCT-ND	Low Voltage for ESD and CDE Protection	SOD-323	.45	.30	.26
UCLAMP3301DTR-ND	Low Voltage for ESD and CDE Protection	SOD-323	729.00/3,000		
UCLAMP3301HCT-ND	Low Voltage for ESD and CDE Protection	SOD-523	.43	.29	.24
UCLAMP3301HTR-ND	Low Voltage for ESD and CDE Protection	SOD-523	690.00/3,000		
UCLAMP3304ACT-ND	4-Line ESD Protection Array	SC-89-6	.48	.32	.27
UCLAMP3304ATR-ND	4-Line ESD Protection Array	SC-89-6	771.00/3,000		
UCLAMP3311PCT-ND	1-Line ESD/CDE Protection Array ***NEW!***	2-SLP	.45	.30	.26
UCLAMP3311PTR-ND	1-Line ESD/CDE Protection Array ***NEW!***	2-SLP	729.00/3,000		

SEMTECH Digi-Reel®

POWER MANAGEMENT
RoHS Compliant

Charge Pumps

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC1462ISKCT-ND	High Output Current Charge Pump Doubler	SOT-23-6	1.25	.83	.70
SC1462ISKTR-ND	High Output Current Charge Pump Doubler	SOT-23-6	2025.00/3,000		

Switching Regulators

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC190BIMLCT-ND	Synchronous Buck Converter with Programmable Output	10-MLP	2.25	1.50	1.26
SC190BIMLTR-ND	Synchronous Buck Converter with Programmable Output	10-MLP	3645.00/3,000		
SC190CIMLCT-ND	Synchronous Buck Converter with Programmable Output	10-MLP	2.25	1.50	1.26
SC190CIMLTR-ND	Synchronous Buck Converter with Programmable Output	10-MLP	3645.00/3,000		
SC192IMLCT-ND	2.7V to 5.5V Input Synchronous Buck Converter with Integrated Power Devices	10-MLPD	2.50	1.66	1.40
SC192IMLTR-ND	2.7V to 5.5V Input Synchronous Buck Converter with Integrated Power Devices	10-MLPD	4050.00/3,000		
SC194AMLCT-ND	1A Synchronous Buck Converter with Integrated Power Devices	10-MLP	3.38	2.25	1.89
SC194AMLTR-ND	1A Synchronous Buck Converter with Integrated Power Devices	10-MLP	5469.00/3,000		
SC194BMLCT-ND	Selectable 3.6V/3.3V/3.0V/2.5V, 1A Synchronous Buck Converter	10-MLP	3.38	2.25	1.89
SC194BMLTR-ND	Selectable 3.6V/3.3V/3.0V/2.5V, 1A Synchronous Buck Converter	10-MLP	5469.00/3,000		
SC196AMLCT-ND	Selectable 1.00V/1.05V/1.20V/1.80V, 1.5A Synchronous Buck Converter ***NEW!***	10-MLP	2.18	1.45	1.22
SC196AMLTR-ND	Selectable 1.00V/1.05V/1.20V/1.80V, 1.5A Synchronous Buck Converter ***NEW!***	10-MLP	3523.50/3,000		
SC196ULCT-ND	Selectable 1.00V/1.05V/1.20V/1.80V, 1.5A Synchronous Buck Converter ***NEW!***	10-MLPD	2.18	1.45	1.22
SC196ULTR-ND	Selectable 1.00V/1.05V/1.20V/1.80V, 1.5A Synchronous Buck Converter ***NEW!***	10-MLPD	3523.50/3,000		
SC198AMLCT-ND	Dual DC/DC Buck Converter ***NEW!***	20-MLPQ	2.30	1.53	1.29
SC198AMLTR-ND	Dual DC/DC Buck Converter ***NEW!***	20-MLPQ	3726.00/3,000		
SC198MLCT-ND	Dual DC/DC Buck Converter ***NEW!***	20-MLPQ	2.30	1.53	1.29
SC198MLTR-ND	Dual DC/DC Buck Converter ***NEW!***	20-MLPQ	3726.00/3,000		
SC412AMLCT-ND	Constant On, Synchronous Buck Controller ***NEW!***	16-MLP	1.60	1.07	.90
SC412AMLTR-ND	Constant On, Synchronous Buck Controller ***NEW!***	16-MLP	2592.00/3,000		
SC457MLCT-ND	Single-Phase Single Chip Vcore Power Supply	32-MLP	4.60	3.06	2.58
SC457MLTR-ND	Single-Phase Single Chip Vcore Power Supply	32-MLP	7452.00/3,000		
SC458IMLCT-ND	Complete Dual-Phase Low VOUT Power Supply Controller	44-MLP	6.65	4.42	3.73
SC458IMLTR-ND	Complete Dual-Phase Low VOUT Power Supply Controller	44-MLP	10773.00/3,000		
SC470IMLCT-ND	Synchronous Buck Controller for Dynamic Load-Voltage Applications	16-MLPQ	2.45	1.63	1.38
SC470IMLTR-ND	Synchronous Buck Controller for Dynamic Load-Voltage Applications	16-MLPQ	3969.00/3,000		
SC470ITSCT-ND	Synchronous Buck Controller for Dynamic Load-Voltage Applications	14-TSSOP	2.45	1.63	1.38
SC470ITSTR-ND	Synchronous Buck Controller for Dynamic Load-Voltage Applications	14-TSSOP	3307.50/2,500		
SC1485ITSCT-ND	Dual Synchronous Buck Pseudo Fixed Frequency Power Supply Controller	28-TSSOP	3.45	2.30	1.94
SC1485ITSTR-ND	Dual Synchronous Buck Pseudo Fixed Frequency Power Supply Controller	28-TSSOP	4657.50/2,500		
SC2440TECT-ND	2.5MHz Dual Switching Regulator with Integrated 2A Switches	16-TSSOP	2.93	1.95	1.64
SC2440TETR-ND	2.5MHz Dual Switching Regulator with Integrated 2A Switches	16-TSSOP	3950.00/2,500		
SC2443MLCT-ND	Dual Phase Synchronous Step-Down Controller ***NEW!***	24-MLPQ	3.75	2.49	2.10
SC2443MLTR-ND	Dual Phase Synchronous Step-Down Controller ***NEW!***	24-MLPQ	6075.00/3,000		
SC2446ITECT-ND	Dual Phase Single or Two Output Sync. Step-Down Controller	28-TSSOP	3.30	2.20	1.85
SC2446ITETR-ND	Dual Phase Single or Two Output Sync. Step-Down Controller	28-TSSOP	4455.00/2,500		
SC2463TSCT-ND	High Performance Quad Output Switching Reg. ***NEW!***	28-TSSOP	4.03	2.68	2.26
SC2463TSTR-ND	High Performance Quad Output Switching Reg. ***NEW!***	28-TSSOP	5433.75/2,500		
SC2544MLCT-ND	High Performance Wide Input Range Dual Sync. Buck Controller	24-MLPQ	3.18	2.11	1.78
SC2544MLTR-ND	High Performance Wide Input Range Dual Sync. Buck Controller	24-MLPQ	5145.00/3,000		
SC2544TSCT-ND	High Performance Wide Input Range Dual Sync. Buck Controller	24-TSSOP	2.98	1.98	1.67
SC2544TSTR-ND	High Performance Wide Input Range Dual Sync. Buck Controller	24-TSSOP	4017.50/2,500		
SC2608BSCT-ND	Simple, Synchronous Voltage Mode PWM Controller ***NEW!***	8-SOIC	1.10	.74	.62
SC2608BSTR-ND	Simple, Synchronous Voltage Mode PWM Controller ***NEW!***	8-SOIC	1485.00/2,500		
SC2620SECT-ND	Dual 2A, 30V Step-Down Regulator with Programmable Frequency up to 1.4MHz	16-SOIC	3.75	2.49	2.10
SC2620SETR-ND	Dual 2A, 30V Step-Down Regulator with Programmable Frequency up to 1.4MHz	16-SOIC	5062.50/2,500		

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

SEMTECH Digi-Reel® POWER MANAGEMENT *(Continued)*

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC4501MLCT-ND	2A, 2MHz Step-Up Switching Regulator with Soft-Start	10-MLPD	1.33	.88	.75
SC4501MLTR-ND	2A, 2MHz Step-Up Switching Regulator with Soft-Start	10-MLPD	2148.00/3,000		
SC4502HMLCT-ND	1.4A, 2MHz Step-Up Switching Regulator with Soft-Start	10-MLPD	1.90	1.27	1.07
SC4502HMLTR-ND	1.4A, 2MHz Step-Up Switching Regulator with Soft-Start	10-MLPD	3078.00/3,000		
SC4503TSKCT-ND	1.3MHz Step-Up Switching Reg. with 1.4A Switch	TSOT-23-5	1.25	.83	.70
SC4503TSKTR-ND	1.3MHz Step-Up Switching Reg. with 1.4A Switch	TSOT-23-5	2025.00/3,000		
SC4508AMLCT-ND	Buck or Buck Boost Current Mode Controller	12-MLPQ	2.20	1.47	1.24
SC4508AMLTR-ND	Buck or Buck Boost Current Mode Controller	12-MLPQ	3564.00/3,000		
SC4517AIMSCT-ND	1.25MHz, 1.5A Step-Down Switching Regulator	8-MSOP	1.75	1.17	.98
SC4517AIMSTR-ND	1.25MHz, 1.5A Step-Down Switching Regulator	8-MSOP	2362.50/2,500		
SC4518HSECT-ND	600kHz, 2A Step-Down Switching Regulator	8-SOIC	1.35	.90	.76
SC4518HSETR-ND	600kHz, 2A Step-Down Switching Regulator	8-SOIC	1822.50/2,500		
SC4519HSECT-ND	600kHz, 3A Step-Down Switching Regulator	8-SOIC	2.50	1.66	1.40
SC4519HSETR-ND	600kHz, 3A Step-Down Switching Regulator	8-SOIC	3375.00/2,500		
SC4524ASECT-ND	28V, 2A Step-Down Switching Regulator ***NEW!***	8-SOIC	.90	.60	.51
SC4524ASETR-ND	28V, 2A Step-Down Switching Regulator ***NEW!***	8-SOIC	1215.00/2,500		
SC4524BSECT-ND	16V, 2A Step-Down Switching Regulator ***NEW!***	8-SOIC	.90	.60	.51
SC4524BSETR-ND	16V, 2A Step-Down Switching Regulator ***NEW!***	8-SOIC	1215.00/2,500		
SC4524SECT-ND	30V, 2A Step-Down Switching Regulator ***NEW!***	8-SOIC	1.38	.92	.77
SC4524SETR-ND	30V, 2A Step-Down Switching Regulator ***NEW!***	8-SOIC	1856.25/2,500		
SC4525ASECT-ND	28V, 3A Step-Down Switching Regulator ***NEW!***	8-SOIC	.95	.64	.54
SC4525ASETR-ND	28V, 3A Step-Down Switching Regulator ***NEW!***	8-SOIC	1282.50/2,500		
SC4620MLCT-ND	High Efficiency, 2.5A Synchronous Step-Down DC/DC Regulator ***NEW!***	20-MLPQ	2.40	1.60	1.35
SC4620MLTR-ND	High Efficiency, 2.5A Synchronous Step-Down DC/DC Regulator ***NEW!***	20-MLPQ	3888.00/3,000		
SC4624AMLCT-ND	High Efficiency, 4A Synchronous Step-Down DC/DC Regulator ***NEW!***	20-MLPQ	1.58	1.05	.89
SC4624AMLTR-ND	High Efficiency, 4A Synchronous Step-Down DC/DC Regulator ***NEW!***	20-MLPQ	2551.50/3,000		

Linear Regulators

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC560AULCT-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	.55	.37	.31
SC560AULTR-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	891.00/3,000		
SC560BULCT-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	.55	.37	.31
SC560BULTR-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	891.00/3,000		
SC560CULCT-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	.55	.37	.31
SC560CULTR-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	891.00/3,000		
SC560DULCT-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	.55	.37	.31
SC560DULTR-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	891.00/3,000		
SC560EULCT-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	.55	.37	.31
SC560EULTR-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	891.00/3,000		
SC560FULCT-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	.55	.37	.31
SC560FULTR-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	891.00/3,000		
SC560GULCT-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	.55	.37	.31
SC560GULTR-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	891.00/3,000		
SC560HULCT-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	.55	.37	.31
SC560HULTR-ND	Dual Output Low Noise Ultra LDO Regulator ***NEW!***	8-MLPQ	891.00/3,000		
SC900AMLCT-ND	Programmable Penta Ultra LDO with RESET and I^{2}C Interface	20-MLPQ	2.50	1.66	1.40
SC900AMLTR-ND	Programmable Penta Ultra LDO with RESET and I^{2}C Interface	20-MLPQ	4050.00/3,000		
SC1453ISK1.5CT-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	.98	.65	.55
SC1453ISK1.5TR-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1581.00/3,000		
SC1453ISK18CT-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	.98	.65	.55
SC1453ISK18TR-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1581.00/3,000		
SC1453ISK2.5CT-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	.98	.65	.55
SC1453ISK2.5TR-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1581.00/3,000		
SC1453ISK3.3CT-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	.98	.65	.55
SC1453ISK3.3TR-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1581.00/3,000		
SC1563ISK1.8CT-ND	LDO Low Quiescent 500mA Regulator.	SOT-23-5	1.75	1.17	.98
SC1563ISK1.8TR-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	2835.00/3,000		
SC1563ISK2.5CT-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	1.75	1.17	.98
SC1563ISK2.5TR-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	2835.00/3,000		
SC1563ISK3.0CT-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	1.75	1.17	.98
SC1563ISK3.0TR-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	2835.00/3,000		
SC1563ISK3.3CT-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	1.75	1.17	.98
SC1563ISK3.3TR-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	2835.00/3,000		
SC1565I5M2.5CT-ND	LDO 1.5A Regulator with Enable	TO-263-5	3.13	2.08	1.75
SC1565I5M2.5TR-ND	LDO 1.5A Regulator with Enable	TO-263-5	1350.40/800		
SC1565IS-1.8CT-ND	LDO 1.5A Regulator with Enable	8-SOIC	1.35	.90	.76
SC1565IS-1.8TR-ND	LDO 1.5A Regulator with Enable	8-SOIC	1822.50/2,500		
SC1565IS-2.5CT-ND	LDO 1.5A Regulator with Enable	8-SOIC	1.35	.90	.76
SC1565IS-2.5TR-ND	LDO 1.5A Regulator with Enable	8-SOIC	1822.50/2,500		
SC1565IST18CT-ND	LDO 1.5A Regulator with Enable	SOT-223	1.35	.90	.76
SC1565IST18TR-ND	LDO 1.5A Regulator with Enable	SOT-223	1822.50/2,500		
SC1565IST25CT-ND	LDO 1.5A Regulator with Enable	SOT-223	1.35	.90	.76
SC1565IST25TR-ND	LDO 1.5A Regulator with Enable	SOT-223	1822.50/2,500		
SC1566I5M1.8CT-ND	LDO 3.0A Regulator with Enable	TO-263-5	3.38	2.25	1.89
SC1566I5M1.8TR-ND	LDO 3.0A Regulator with Enable	TO-263-5	1458.40/800		
SC1566I5M2.5CT-ND	LDO 3.0A Regulator with Enable	TO-263-5	3.45	2.30	1.94
SC1566I5M2.5TR-ND	LDO 3.0A Regulator with Enable	TO-263-5	1490.40/800		
SC1566IM-1.8CT-ND	LDO 3.0A Regulator with Enable	TO-263	3.45	2.30	1.94
SC1566IM-1.8TR-ND	LDO 3.0A Regulator with Enable	TO-263	1490.40/800		
SC1566IM-2.5CT-ND	LDO 3.0A Regulator with Enable	TO-263	3.45	2.30	1.94
SC1566IM-2.5TR-ND	LDO 3.0A Regulator with Enable	TO-263	1490.40/800		
SC1592IMCT-ND	LDO High Performance Adj. Positive Voltage Regulator	TO-263-7	3.13	2.08	1.75
SC1592IMTR-ND	LDO High Performance Adj. Positive Voltage Regulator	TO-263-7	1350.40/800		
SC2595MLCT-ND	Integrated Linear DDR Termination Regulator	16-MLPQ	2.45	1.63	1.38
SC2595MLTR-ND	Integrated Linear DDR Termination Regulator	16-MLPQ	3969.00/3,000		
SC2596SCT-ND	Low Voltage Integrated DDR Termination Regulator ***NEW!***	8-SOIC	1.45	.97	.82
SC2596STR-ND	Low Voltage Integrated DDR Termination Regulator ***NEW!***	8-SOIC	1957.50/2,500		
SC2596SECT-ND	Low Voltage Integrated DDR Termination Regulator ***NEW!***	8-SOIC	1.33	.88	.75
SC2596SETR-ND	Low Voltage Integrated DDR Termination Regulator ***NEW!***	8-SOIC	1788.75/2,500		
SC4211SCT-ND	Low In/LDO 1A Regulator with Enable	8-SOIC	1.33	.88	.75
SC4211STR-ND	Low In/LDO 1A Regulator with Enable	8-SOIC	1790.00/2,500		
SC4215ASCT-ND	Low In/LDO 2A Regulator with Enable	8-SOIC	1.20	.80	.68
SC4215ASTR-ND	Low In/LDO 2A Regulator with Enable	8-SOIC	1620.00/2,500		
SC4216SCT-ND	Low In/LDO 3A Regulator with Enable	8-SOIC	1.68	1.12	.94
SC4216STR-ND	Low In/LDO 3A Regulator with Enable	8-SOIC	2262.50/2,500		
SC553ISKCT-ND	150mA Ultra LDO Regulator with Adj. Output	SOT-23-5	1.08	.72	.61
SC553ISKTR-ND	150mA Ultra LDO Regulator with Adj. Output	SOT-23-5	1743.00/3,000		

Special Function

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC310ASKCT-ND	High Side Current Sense Amp with Low Impedance Voltage Output	SOT-23-6	1.10	.74	.62
SC310ASKTR-ND	High Side Current Sense Amp with Low Impedance Voltage Output	SOT-23-6	1782.00/3,000		
SC310BSKCT-ND	High Side Current Sense Amp with Low Impedance Voltage Output	SOT-23-6	1.10	.74	.62
SC310BSKTR-ND	High Side Current Sense Amp with Low Impedance Voltage Output	SOT-23-6	1782.00/3,000		
SC310CSKCT-ND	High Side Current Sense Amp with Low Impedance Voltage Output	SOT-23-6	1.10	.74	.62
SC310CSKTR-ND	High Side Current Sense Amp with Low Impedance Voltage Output	SOT-23-6	1782.00/3,000		
SC338AIMSCT-ND	Ultra Low Output Voltage Dual Linear FET Controller	10-MSOP	1.98	1.32	1.11
SC338AIMSTR-ND	Ultra Low Output Voltage Dual Linear FET Controller	10-MSOP	2667.50/2,500		

References

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC431CSK-.5CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.45	.30	.26
SC431CSK-.5TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	729.00/3,000		
SC431CSK-1CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.38	.25	.21
SC431CSK-1TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	609.00/3,000		
SC431CSK-2CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.38	.25	.21
SC431CSK-2TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	609.00/3,000		
SC431LCSK-0.5CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.55	.37	.31
SC431LCSK-0.5TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	891.00/3,000		
SC431LCSK-1CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.48	.32	.27
SC431LCSK-1TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	771.00/3,000		
SC431LCSK-25CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.70	.47	.40
SC431LCSK-25TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1134.00/3,000		
SC431LISK-.5CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.50	.34	.28
SC431LISK-.5TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	810.00/3,000		

LED Drivers

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC440MLCT-ND	High Efficiency Integrated Driver for 6-Strings of 30mA LEDs ***NEW!***	24-MLPQ	3.90	2.59	2.19
SC440MLTR-ND	High Efficiency Integrated Driver for 6-Strings of 30mA LEDs ***NEW!***	24-MLPQ	6318.00/3,000		
SC441TECT-ND	High Efficiency Integrated Driver for 4-Strings of 150mA LEDs ***NEW!***	20-TSSOP	4.13	2.74	2.31
SC441TETR-ND	High Efficiency Integrated Driver for 4-Strings of 150mA LEDs ***NEW!***	20-TSSOP	5568.75/2,500		
SC600BIMLCT-ND	LED Driver with 5.0V, 4.5V, or 4.0V Output	10-MLP	2.50	1.66	1.40
SC600BIMLTR-ND	LED Driver with 5.0V, 4.5V, or 4.0V Output	10-MLP	4050.00/3,000		
SC618ULCT-ND	Charge Pump Flash LED Driver with Safety Timer	10-MLP	4.03	2.68	2.26
SC618ULTR-ND	Charge Pump Flash LED Driver with Safety Timer	10-MLP	6522.00/3,000		
SC620ULCT-ND	General Purpose Octal LED Driver	16-MLPQ	1.60	1.07	.90
SC620ULTR-ND	General Purpose Octal LED Driver	16-MLPQ	2592.00/3,000		
SC4509SKCT-ND	Highly Integrated Step-Up Converter for WLEDs ***NEW!***	SOT-23-6	.78	.52	.44
SC4509SKTR-ND	Highly Integrated Step-Up Converter for WLEDs ***NEW!***	SOT-23-6	1255.50/3,000		
SC4509WLCT-ND	Highly Integrated Step-Up Converter for WLEDs ***NEW!***	8-MLPD	.83	.55	.47
SC4509WLTR-ND	Highly Integrated Step-Up Converter for WLEDs ***NEW!***	8-MLPD	1336.50/3,000		
SC4538ULCT-ND	High Efficiency Boost Converter up to 10 WLEDs ***NEW!***	8-MLPD	1.25	.83	.70
SC4538ULTR-ND	High Efficiency Boost Converter up to 10 WLEDs ***NEW!***	8-MLPD	2025.00/3,000		

Battery Chargers

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC804IMLCT-ND	Fully Integrated Lithium-Ion Battery Charger System with Timer	16-MLPQ	3.40	2.26	1.91
SC804IMLTR-ND	Fully Integrated Lithium-Ion Battery Charger System with Timer	16-MLPQ	5508.00/3,000		
SC805IMLCT-ND	Minature IC High Current Lithium-Ion	10-MLP	2.63	1.75	1.47
SC805IMLTR-ND	Minature IC High Current Lithium-Ion	10-MLP	4254.00/3,000		
SC806IMLCT-ND	Minature High Current Lithium-Ion	10-MLP	2.38	1.58	1.33
SC806IMLTR-ND	Minature High Current Lithium-Ion	10-MLP	3849.00/3,000		

Hot Swap Controllers

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC4250LISCT-ND	Negative Voltage	8-SOIC	1.80	1.20	1.01
SC4250LISTR-ND	Negative Voltage	8-SOIC	2430.00/2,500		

NEW! Timers NEW!

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ACS8944T-ND	Jitter Attenuating, Multiplying Phase Locked Loop	48-QFN	15.63	10.38	8.75
ACS8946T-ND	Jitter Attenuating, Multiplying Phase Locked Loop	48-QFN	17.50	11.62	9.80
ACS8947T-ND	Jitter Attenuating, Multiplying Phase Locked Loop	48-QFN	9.88	6.56	5.53

Panasonic Digi-Reel® ANALOG ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN1101SSMTXLCT-ND	2.5V to 5.5V CMOS Single Power Supply	SSMINI-5	1.23	1.03	.82
AN1201SMTXLCT-ND	Polarity Inverting Charge Pump DC/DC Converter	SMINI-5	1.36	1.09	.82
AN1281SSMTXLCT-ND	Ripple Filter	SSMINI-5	1.36	1.09	.82
AN1281SSMTXLTR-ND	Ripple Filter	SSMINI-5	2094.00/3,000		
AN30251A-VBCT-ND	White LED Driver* ***NEW!***	16-QFN	1.88	1.51	1.13
AN30251A-VBTR-ND	White LED Driver* ***NEW!***	16-QFN	1954.45/2,000		
AN6123MSTXLCT-ND	Speech Network with ALC*	MINI-5	1.07	.89	.71
AN6123MSTXLTR-ND	Speech Network with ALC*	MINI-5	1386.00/3,000		
AN8001FHKV-ND	Gradation Voltage Generation for Liquid Crystal Display*	TQFP048	3.68	2.95	2.30
AN8495SBE1VCT-ND	Stepping Motor Drive*	HSOP042	4.61	3.69	2.87
AN8955SSMTXLCT-ND	13MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8955SSMTXLTR-ND	13MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		
AN8956SSMTXLCT-ND	26MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8956SSMTXLTR-ND	26MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		
AN8957SSMTXLCT-ND	19MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8957SSMTXLTR-ND	19MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		
AN8958SSMTXLCT-ND	26MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55

Panasonic AUDIO/VIDEO ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN2906FJMEBVCT-ND	Audio In/Out Amplifier*	QUAD-44	3.69	2.95	2.30
AN2906FJMEBVTR-ND	Audio In/Out Amplifier*	QUAD-44	4178.00/2,000		
AN5272-ND	4W, 2-Channel Audio Amp with Fin	SIL-12	2.24	1.80	1.35
AN5273-ND	4W, 2-Channel Audio Amp with Fin	SIL-12	2.24	1.80	1.35
AN5274-ND	4W, 2-Channel Audio Amp with Fin	SIL-12	2.40	1.92	1.44

** RoHS Compliant*

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Panasonic AUDIO/VIDEO ICs *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AN5275-ND	15W, Dual Audio Amp with Fin	SIL-12	2.88	2.31	1.80
AN5276-ND	5W, 2-Channel Audio Amp with Fin	SIL-12	2.24	1.80	1.35
AN5277-ND	10W, 2-Channel Audio Amp with Fin	SIL-12	2.30	1.85	1.44
AN5278-ND	4.8W, 1-Channel Audio Amp with Fin	SIL-9	1.60	1.28	.96
AN5279-ND	5W, 1-Channel Audio Amp with Fin	SIL-9	1.60	1.28	.96
AN5870K-ND	Analog Switch with Amp and 75-Ohm Driver for Display	DIL-30	5.04	4.04	3.14
AN7510-ND	1W, 2-Channel Audio Amp with Fin	16-Dip	1.60	1.28	.96
AN7511-ND	1W, 1-Channel Audio Amp with Fin*	8-Dip	1.15	.96	.77
AN7512-ND	1W, 2-Channel Audio Amp with Fin	16-Dip	1.92	1.54	1.16
AN7513-ND	1W, 1-Channel Audio Amp*	8-Dip	1.28	1.03	.77
AN7522N-ND	5W, 2-Channel Audio Amp with Fin	SIL-12	2.30	1.85	1.44
AN7523N-ND	4W, 1-Channel Audio Amp with Fin	SIL-9	1.60	1.28	.96
AN7580-ND	25W, 6-Ohm, 2-Channel BTL Audio Amp*	SIL-12	3.92	3.14	2.44
AN7586-ND	10W, 1-Channel Audio Amp with Fin	SIL-7	1.92	1.54	1.16
AN15851ACT-ND	4-Input AV Switch with RGB-YUV	36-USO	3.49	2.80	2.18
AN15851ATR-ND	4-Input AV Switch with RGB-YUV	36-USO	1977.00/1,000		
AN15852A-VT-ND	AV Switch with I²C Interface*	QFH-80	7.48	5.99	5.06
AN15853BCT-ND	4-Input AV Switch for Color TV	36-USO	2.53	2.03	1.58
AN15853BTR-ND	4-Input AV Switch for Color TV	36-USO	1433.00/1,000		
AN15861A-VT-ND	12-Input/4-Output Channel Audio Switch*	44-QFP	4.28	3.43	2.67
AN15865AAVT-ND	Video Switch IC for Color TV*	80-QFP	8.45	7.61	6.75
AN15866A-VT-ND	Video Switch with I²C Bus*	80-QFH	8.62	6.90	5.83
AN17000ABFCT-ND	Audio Amplifier for Notebook*	56-SOIC	3.46	2.77	2.16
AN17000ABFTR-ND	Audio Amplifier for Notebook*	56-SOIC	5805.00/3,000		
AN17020AVBCT-ND	Audio Amplifier for Headphone	QUAD-16-SOIC	1.98	1.59	1.20
AN17020AVBTR-ND	Audio Amplifier for Headphone	QUAD-16-SOIC	2064.00/2,000		
AN17820B-ND	7.5W, 2-Channel Audio Amp*	SIL-12	3.18	2.55	1.91
AN17821A-ND	5W, 2-Channel Audio Amp*	SIL-12	2.00	1.60	1.20
AN17823A-ND	4W, 1-Channel Audio Amp*	SIL-9	1.23	1.03	.83
AN17831A-ND	44W, 6-Ohm, 2-Channel BTL Audio Amp*	SIL-12	4.02	3.22	2.50
AN17850A-ND	70W, 6-Ohm, 1-Channel BTL Audio Amp*	SIL-12	4.10	3.29	2.56
AN17880AE1CT-ND	Audio Amplifier for Headphone	16-SOIC	1.71	1.37	1.03
AN17880AE1TR-ND	Audio Amplifier for Headphone	16-SOIC	1774.00/2,000		

Panasonic BI-CMOS ICs — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AN26210A-PBCT-ND	W-CDMA Dual Band LNA-IC	12-FPLGA	2.29	1.84	1.38
AN26210A-PBTR-ND	W-CDMA Dual Band LNA-IC	12-FPLGA	3516.00/3,000		
AN26214A-PRCT-ND	W-CDMA Triple Band LNA-IC	11-WLCSP	2.55	2.05	1.59
AN26214A-PRTR-ND	W-CDMA Triple Band LNA-IC	11-WLCSP	5716.00/4,000		

Panasonic DC/DC CONVERTER ICs — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AN8011SE1VCT-ND	2-Channel DC/DC Converter	16-SOIC	1.70	1.36	1.02
AN8011SE1VTR-ND	2-Channel DC/DC Converter	16-SOIC	1764.00/2,000		
AN8013SHE1CT-ND	1-Channel DC/DC Converter	SSONF-10D	1.33	1.07	.81
AN8013SHE1TR-ND	1-Channel DC/DC Converter	SSONF-10D	1388.00/2,000		
AN8014SE1CT-ND	1-Channel DC/DC Converter	16-SOIC	1.56	1.25	.94
AN8014SE1TR-ND	1-Channel DC/DC Converter	16-SOIC	1620.00/2,000		
AN8015SHE1CT-ND	1-Channel DC/DC Converter	SSONF-10D	1.33	1.07	.81
AN8015SHE1TR-ND	1-Channel DC/DC Converter	SSONF-10D	1388.00/2,000		
AN8017SAE1CT-ND	2-Channel DC/DC Converter	SSONF-16D	1.87	1.50	1.12
AN8017SAE1TR-ND	2-Channel DC/DC Converter	SSONF-16D	1940.00/2,000		
AN8018SAE1VCT-ND	2-Channel DC/DC Converter	SSONF-16D	1.87	1.50	1.12
AN8018SAE1VTR-ND	2-Channel DC/DC Converter	SSONF-16D	1940.00/2,000		
AN8049FHNEBCT-ND	3-Channel DC/DC Converter	QFN-24	3.01	2.41	1.88
AN8049FHNEBTR-ND	3-Channel DC/DC Converter	QFN-24	3408.00/2,000		
AN8049SHE1CT-ND	3-Channel DC/DC Converter	SSOP-24D	2.30	1.85	1.44
AN8049SHE1TR-ND	3-Channel DC/DC Converter	SSOP-24D	1306.00/1,000		

Panasonic VOLTAGE REGULATORS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AN78L06-ND	6V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN79L10-ND	10V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L20-ND	20V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L24-ND	24V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN78L05M-ND	5V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L09M-ND	9V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L09ME1TR-ND	9V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L10ME1TR-ND	10V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L15M-ND	15V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L15ME1TR-ND	15V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN79L10ME1TR-ND	10V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L15M-ND	15V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.52	.39	.30
AN79L15ME1TR-ND	15V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L18M-ND	18V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L18ME1TR-ND	18V, 100mA, Negative General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN79L20M-ND	20V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L20ME1TR-ND	20V, 100mA, Negative General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN79L24M-ND	24V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L24ME1TR-ND	24V, 100mA, Negative General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN78M08NSPE1TR-ND	8V, 0.5A, Positive Output Voltage Regulator	SP3SU	1389.00/3,000		
AN77L03-ND	3V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L035-ND	3.5V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L06-ND	6V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L07-ND	7V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L08-ND	8V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L09-ND	9V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L10-ND	10V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L12-ND	12V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77035SPE1TR-ND	3.5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7705SP-ND	5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7705SPE1TR-ND	5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7706SPE1TR-ND	6V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7707SPE1TR-ND	7V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7708SP-ND	8V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7708SPE1TR-ND	8V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7709SP-ND	9V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7709SPE1TR-ND	9V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7710SPE1TR-ND	10V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7712SP-ND	12V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7712SPE1TR-ND	12V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7715SP-ND	15V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN77L03M-ND	3V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L03ME1TR-ND	3V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L035M-ND	3.5V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L035ME1TR-ND	3.5V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L04M-ND	4V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L05M-ND	5V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L05ME1TR-ND	5V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L06M-ND	6V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L06ME1TR-ND	6V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L07M-ND	7V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L07ME1TR-ND	7V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L08M-ND	8V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L08ME1TR-ND	8V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L09M-ND	9V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L09ME1TR-ND	9V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L10M-ND	10V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L10ME1TR-ND	10V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN8003-ND	3V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8004-ND	4V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8045-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8005-ND	5V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8006-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8007-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8008-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8010-ND	10V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8002M-ND	2V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8025M-ND	2.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8025M-E1TR-ND	2.5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8003M-E1TR-ND	3V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8004M-ND	4V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8004M-E1TR-ND	4V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8045M-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8045M-E1TR-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8005M-ND	5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8005M-E1TR-ND	5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8006M-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8006M-E1TR-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8007M-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8007M-E1TR-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8008M-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8008M-E1TR-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8085M-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8085M-E1TR-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8009M-ND	9V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8009M-E1TR-ND	9V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8010M-E1TR-ND	10V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN80L20RMS-ND	2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L21RMS-ND	2.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L21RMSTXTR-ND	2.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L22RMS-ND	2.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L22RMSTXTR-ND	2.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L25RMS-ND	2.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L25RMSTXTR-ND	2.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L28RMS-ND	2.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L28RMSTXTR-ND	2.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L29RMS-ND	2.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L29RMSTXTR-ND	2.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L30RMS-ND	3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L30RMSTXTR-ND	3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L31RMS-ND	3.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L31RMSTXTR-ND	3.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L32RMS-ND	3.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L32RMSTXTR-ND	3.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L33RMSTXTR-ND	3.3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L34RMS-ND	3.4V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L34RMSTXTR-ND	3.4V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L36RMS-ND	3.6V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L36RMSTXTR-ND	3.6V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L48RMS-ND	4.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L48RMSTXTR-ND	4.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L49RMS-ND	4.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L49RMSTXTR-ND	4.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L50RMS-ND	5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L50RMSTXTR-ND	5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L51RMS-ND	5.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L52RMS-ND	5.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L52RMSTXTR-ND	5.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80M27RSP-ND	2.7V, 500mA, with On-Off, Low Power Loss, Positive Voltage Regulator	SP5SU	2.33	1.87	1.40
AN80M27RSPTXTR-ND	2.7V, 500mA, with On-Off, Low Power Loss, Positive Voltage Regulator	SP5SU	3579.00/3,000		
AN80T05-ND	Voltage Supply for Car Audio ***NEW!***	12-SIL	3.16	2.53	1.97
AN80T05LF-ND	Voltage Supply for Car Audio ***NEW!***	12-SIL	3.22	2.58	2.01
AN80T32-ND	Multi-Voltage Regulator ***NEW!***	TO-2207	2.02	1.62	1.22
AN80T53-ND	Multi-Voltage Regulator ***NEW!***	TO-2207	2.12	1.70	1.28
AN1431M-ND	2.5V-36V, Positive Variable Output Shunt Regulator	TO-243	.87	.73	.58
AN1433SSMTXLCT-ND	7V-14V, Positive, Variable Output Shunt Regulator	SSMINI5D	1.07	.90	.72
AN34040A-ND	Multi-Voltage Regulator ***NEW!***	TO-2207	2.34	1.88	1.46
AN34060A-ND	Multi-Voltage Regulator ***NEW!***	TO-2207	2.42	1.94	1.51
AN1433SSMTXLTR-ND	7V-14V, Positive, Variable Output Shunt Regulator	SSMINI5D	1395.00/3,000		

***** *RoHS Compliant*

JRC / NJR Corporation AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJG1101F-TE1CT-ND	Wideband AGC Amp, GaAs MMIC	6-MTP	2.31	1.93	1.54
NJG1101F-TE1TR-ND	Wideband AGC Amp, GaAs MMIC	6-MTP	4042.50/3,000		
NJG1103F1-TE1CT-ND	1.5/1.9GHz Low Noise Amp, GaAs MMIC	6-MTP	.93	.78	.62
NJG1103F1-TE1TR-ND	1.5/1.9GHz Low Noise Amp, GaAs MMIC	6-MTP	1627.50/3,000		
NJG1105F-TE1CT-ND	1.8/1.9/2.1GHz Band Low Noise Amp, GaAs MMIC	6-MTP	2.73	2.28	1.82
NJG1105F-TE1TR-ND	1.8/1.9/2.1GHz Band Low Noise Amp, GaAs MMIC	6-MTP	4777.50/3,000		
NJG1302V-TE1CT-ND	Medium Power Amp, GaAs MMIC	14-SSOP	6.30	5.25	4.20
NJG1302V-TE1TR-ND	Medium Power Amp, GaAs MMIC	14-SSOP	7350.00/2,000		
NJG1307R-TE1CT-ND	Driver Amp, GaAs MMIC	8-VSP	2.94	2.45	1.96
NJG1307R-TE1TR-ND	Driver Amp, GaAs MMIC	8-VSP	3430.00/2,000		
NJM064D-ND	J-Fet Input Op Amp	14-Dip	.93	.78	.62
NJM#072D-ND	Dual J-Fet Input Op Amp*	8-Dip	.45	.38	.30
NJM072M-ND	Dual J-Fet Input Op Amp	8-DMP	.54	.45	.36
NJM074M-ND	Quad J-Fet Input Op Amp	14-DMP	1.05	.88	.70
NJM082D-ND	Dual J-Fet Input Op Amp	8-Dip	.48	.40	.32
NJM084D-ND	Quad J-Fet Input Op Amp	14-Dip	1.17	.98	.78
NJM#319M-ND	Precision, High Speed, Dual Voltage Comparator*	14-DMP	1.08	.90	.72
NJM2060D-ND	High-Gain, Wide-Bandwidth, Quad Op Amp	14-Dip	.60	.50	.40
NJM#2068D-ND	Low-Noise Dual Op Amp*	8-Dip	.39	.33	.26
NJM2070D-ND	Low Voltage Power Amp	8-Dip	.84	.70	.56
NJM#2073D-ND	Dual Low Voltage Power Amp*	8-Dip	.87	.73	.58
NJM#2073M-ND	Dual Low Voltage Power Amp*	8-DMP	.87	.73	.58
NJM2076D-ND	Dual Low Voltage Power Amp	8-Dip	1.38	1.15	.92
NJM2076M-ND	Dual Low Voltage Power Amp	8-DMP	1.38	1.15	.92
NJM#2082D-ND	Dual J-Fet Input Op Amp*	8-Dip	.60	.50	.40
NJM2082M-ND	Dual J-Fet Input Op Amp	8-DMP	.51	.43	.34
NJM#2100D-ND	Dual Op Amp*	8-Dip	.60	.50	.40
NJM#2113M-ND	Low Voltage Audio Power Amp*	8-DMP	.57	.48	.38
NJM#2119M-ND	Dual Single Supply Op Amp*	8-DMP	1.17	.98	.78
NJM2120M-ND	Op Amp, 2-Input/1-Output Analog Switch	8-DMP	.66	.55	.44
NJM2121M-ND	Dual Op Amp, 2-Input/1-Output Analog Switch	8-DMP	.54	.45	.36
NJM2122D-ND	Ultra Low Noise Dual Op Amp	8-Dip	1.17	.98	.78
NJM#2125F-TE1CT-ND	Single Supply Op Amp*	5-MTP	.63	.53	.42
NJM#2125F-TE1TR-ND	Single Supply Op Amp*	5-MTP	1102.50/3,000		
NJM2135M-TE2CT-ND	Low Voltage Audio Power Amp	8-DMP	.63	.53	.42
NJM2135M-TE2TR-ND	Low Voltage Audio Power Amp	8-DMP	735.00/2,000		
NJM2136M-ND	Ultra Wideband, High Slew Rate, Single Op Amp	8-DMP	1.50	1.25	1.00
NJM2137M-ND	Ultra Wideband, High Slew Rate, Dual Op Amp	8-DMP	1.26	1.05	.84
NJM2138M-ND	Ultra Wideband, High Slew Rate, Quad Op Amp	14-DMP	2.52	2.10	1.68
NJM#2140R-TE1CT-ND	Low Saturation Dual Op Amp*	8-VSP	.63	.53	.42
NJM#2140R-TE1TR-ND	Low Saturation Dual Op Amp*	8-VSP	735.00/2,000		
NJM#2143R-TE1CT-ND	Single Supply Dual Op Amp*	8-VSP	.45	.38	.30
NJM#2143R-TE1TR-ND	Single Supply Dual Op Amp*	8-VSP	560.00/2,000		
NJM#2149M-ND	Low Voltage Audio Power Amp*	8-DMP	.90	.75	.60
NJM2171AR-TE1CT-ND	Low Voltage Headphone Amp for Portable Audio	10-VSP	.90	.75	.60
NJM2171AR-TE1TR-ND	Low Voltage Headphone Amp for Portable Audio	10-VSP	1050.00/2,000		
NJM#2172V-TE1CT-ND	Op Amp with Electric Variable Resistor*	14-SSOP	1.86	1.55	1.24
NJM#2172V-TE1TR-ND	Op Amp with Electric Variable Resistor*	14-SSOP	2206.00/2,000		
NJM2174V-TE2CT-ND	Audio Line Amp with Mute Function	14-SSOP	1.47	1.23	.98
NJM2174V-TE2TR-ND	Audio Line Amp with Mute Function	14-SSOP	1715.00/2,000		
NJM2204AD-ND	Integrated IF Limiting Amp	16-Dip	2.52	2.10	1.68
NJM#2267M-ND	Dual Video 6dB Amp with 75-Ohm Driver*	8-DMP	.72	.60	.48
NJM2268M-ND	Dual Video 6dB Amplifier	8-DMP	.57	.48	.38
NJM2403D-ND	Single Supply Dual Comparator	8-Dip	.54	.45	.36
NJM#2406F-TE1CT-ND	Single Comparator*	5-MTP	.42	.35	.28
NJM#2406F-TE1TR-ND	Single Comparator*	5-MTP	735.00/3,000		
NJM#2407R-TE1CT-ND	Single Supply Dual Comparator*	8-VSP	.45	.38	.30
NJM#2407R-TE1TR-ND	Single Supply Dual Comparator*	8-VSP	560.00/2,000		
NJM2538V-TE1CT-ND	Video Amp with 75-Ohm Driver	20-SSOP	2.94	2.45	1.96
NJM2538V-TE1TR-ND	Video Amp with 75-Ohm Driver	20-SSOP	3430.00/2,000		
NJM#2574RB1-TE1CT-ND	Low Voltage Video Amp with LPF*	8-TVSP	.99	.83	.66
NJM#2574RB1-TE1TR-ND	Low Voltage Video Amp with LPF*	8-TVSP	1156.00/2,000		
NJM#2575F1-TE1CT-ND	Low Voltage Video Amp with LPF*	6-MTP	.84	.70	.56
NJM#2575F1-TE1TR-ND	Low Voltage Video Amp with LPF*	6-MTP	1524.00/3,000		
NJM#2576RB1-TE1CT-ND	Low Voltage Video Amp with LPF*	8-TVSP	1.17	.98	.78
NJM#2576RB1-TE1TR-ND	Low Voltage Video Amp with LPF*	8-TVSP	1400.00/2,000		
NJM2580D-ND	Single Supply Wideband 3-Channel Video Amp	14-Dip	2.52	2.10	1.68
NJM2580M-ND	Single Supply Wideband 3-Channel Video Amp	14-DMP	2.10	1.75	1.40
NJM2710V-TE1CT-ND	Ultra High Speed Hex Op Amp	20-SSOP	2.43	2.03	1.62
NJM2710V-TE1TR-ND	Ultra High Speed Hex Op Amp	20-SSOP	2835.00/2,000		
NJM#2711F-TE1CT-ND	Ultra High Speed Single Op Amp*	5-MTP	2.43	2.03	1.62
NJM#2711F-TE1TR-ND	Ultra High Speed Single Op Amp*	5-MTP	4359.00/3,000		
NJM2716F-TE1CT-ND	Single Supply High-Slew Rate Single Op Amp	5-MTP	1.26	1.05	.84
NJM2716F-TE1TR-ND	Single Supply High-Slew Rate Single Op Amp	5-MTP	2205.00/3,000		
NJM#2730F-TE1CT-ND	Low Supply Voltage Single Op Amp*	5-MTP	.84	.70	.56
NJM#2732RB1-TE1CT-ND	Full-Swing Input and Output Type Dual Op Amp*	8-TVSP	2.10	1.75	1.40
NJM#2732RB1-TE1TR-ND	Full-Swing Input and Output Type Dual Op Amp*	8-TVSP	2486.00/2,000		
NJM2737RB1-TE1CT-ND	Low Noise, Low Supply Voltage Dual Op Amp	8-TVSP	2.31	1.93	1.54
NJM2737RB1-TE1TR-ND	Low Noise, Low Supply Voltage Dual Op Amp	8-TVSP	2695.00/2,000		
NJM#2737RB1-TE1CT-ND	Low Noise, Low Supply Voltage Dual Op Amp*	8-TVSP	2.37	1.98	1.58
NJM#2737RB1-TE1TR-ND	Low Noise, Low Supply Voltage Dual Op Amp*	8-TVSP	2766.00/2,000		
NJM2770RB1-TE1CT-ND	High Power and Low Voltage Audio Power Amp	8-TVSP	1.20	1.00	.80
NJM2770RB1-TE1TR-ND	High Power and Low Voltage Audio Power Amp	8-TVSP	1400.00/2,000		
NJM2772V-TE1CT-ND	Low Voltage Headphone Amp for Portable Audio	14-SSOP	1.35	1.13	.90
NJM2772V-TE1TR-ND	Low Voltage Headphone Amp for Portable Audio	14-SSOP	1575.00/2,000		
NJM#4558D-ND	Dual Op Amp*	8-Dip	.42	.35	.28
NJM#4558M-ND	Dual Op Amp*	8-DMP	.42	.35	.28
NJM4559M-ND	Dual High Gain Op Amp	8-DMP	.42	.35	.28
NJM#4560D-ND	High Gain, Wide-Bandwidth, Dual Op Amp*	8-Dip	.42	.35	.28
NJM4562M-ND	High Gain, Wide-Bandwidth, Low Noise, Dual Op Amp	8-DMP	.51	.43	.34
NJM#4565D-ND	High Gain, Wide-Bandwidth, Low Noise, Dual Op Amp*	8-Dip	.48	.40	.32
NJM#4741M-ND	General Purpose Quad Op Amp*	14-DMP	1.47	1.23	.98
NJM#5532M-ND	High Performance Low Noise Dual Op Amp*	8-DMP	.99	.83	.66
NJM#5534M-ND	High Performance Low Noise Op Amp*	8-DMP	.69	.58	.46
NJM12901M-ND	Single Supply Quad Comparator	14-DMP	.75	.63	.50
NJM12902M-ND	Single Supply Quad Op Amp	14-DMP	.81	.68	.54
NJM#12904M-TE1CT-ND	Single Supply Dual Amp*	8-DMP	.39	.33	.26
NJM#12904M-TE1TR-ND	Single Supply Dual Amp*	8-DMP	490.00/2,000		
NJM#13403M-ND	Single Supply Quad Op Amp*	14-DMP	.99	.83	.66
NJM13404D-ND	Single Supply Dual Op Amp	8-Dip	.66	.55	.44
NJM13404M-ND	Single Supply Dual Op Amp	8-DMP	.66	.55	.44
NJM13700D-ND	Dual Op Transconductance Amp	16-Dip	.99	.83	.66
NJM#14558D-ND	Dual Op Amp*	8-Dip	.51	.43	.34
NJM14558M-ND	Dual Op Amp	8-DMP	.51	.43	.34
NJM#OP07D-ND	Low Offset Voltage, Low Drift Op Amp*	8-Dip	1.02	.85	.68
NJU7001M-ND	Low Voltage CMOS Op Amp	8-DMP	.69	.58	.46
NJU7004D-ND	Quad Low Voltage CMOS Op Amp	14-Dip	2.01	1.68	1.34
NJU7004M-ND	Quad Low Voltage CMOS Op Amp	14-DMP	2.01	1.68	1.34
NJU7006F-TE1CT-ND	Super Low Operating Current and Low Offset Voltage, Tiny Single CMOS Op Amp	5-MTP	1.86	1.55	1.24
NJU7006F-TE1TR-ND	Super Low Operating Current and Low Offset Voltage, Tiny Single CMOS Op Amp	5-MTP	3255.00/3,000		
NJU7007F3-TE1CT-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	.84	.70	.56
NJU7007F3-TE1TR-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	1470.00/3,000		
NJU7008F3-TE1CT-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	.84	.70	.56
NJU7008F3-TE1TR-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	1470.00/3,000		
NJU7011F-TE1CT-ND	Low Power Tiny Single CMOS Op Amp	5-MTP	.54	.45	.36
NJU7014D-ND	Low Power Dual CMOS Op Amp	8-Dip	1.17	.98	.78
NJU7015D-ND	Low Power Dual CMOS Op Amp	8-Dip	1.17	.98	.78
NJU7016D-ND	Low Power Dual CMOS Op Amp	8-Dip	1.20	1.00	.80
NJU7021D-ND	Single Low Voltage CMOS Op Amp	8-Dip	1.38	1.15	.92
NJU7022M-ND	Dual Low Voltage CMOS Op Amp	8-DMP	.87	.73	.58
NJU7024D-ND	Quad Low Voltage CMOS Op Amp	14-Dip	2.13	1.78	1.42
NJU7024M-ND	Quad Low Voltage CMOS Op Amp	14-DMP	2.25	1.88	1.50
NJU7031D-ND	Low Voltage CMOS Op Amp	8-Dip	.75	.63	.50
NJU7031M-ND	Low Voltage CMOS Op Amp	8-DMP	.75	.63	.50
NJU#7032M-ND	Dual Low Voltage CMOS Op Amp*	8-DMP	.99	.83	.66
NJU7034D-ND	Quad Low Voltage CMOS Op Amp	14-Dip	1.71	1.43	1.14
NJU7051D-ND	Low Input Offset Voltage CMOS Op Amp	8-Dip	1.38	1.15	.92
NJU7051M-ND	Low Input Offset Voltage CMOS Op Amp	8-DMP	1.05	.88	.70
NJU7054D-ND	Low Input Offset Voltage CMOS Op Amp	14-Dip	1.53	1.28	1.02
NJU7054M-ND	Quad Low Input Offset Voltage CMOS Op Amp	14-DMP	1.47	1.23	.98
NJU7061D-ND	Single Low Input Offset Voltage CMOS Op Amp	8-Dip	1.02	.85	.68
NJU7062D-ND	Dual Low Input Offset Voltage CMOS Op Amp	8-Dip	.99	.83	.66
NJU7072M-ND	Dual Low Input Offset Voltage CMOS Op Amp	8-DMP	1.68	1.40	1.12
NJU7074D-ND	Quad Low Input Offset Voltage CMOS Op Amp	14-Dip	2.73	2.28	1.82
NJU7074M-ND	Quad Low Input Offset Voltage CMOS Op Amp	14-DMP	2.10	1.75	1.40
NJU7081R-TE1CT-ND	Single Low Voltage CMOS Power Amp	8-VSP	.63	.53	.42
NJU7081R-TE1TR-ND	Single Low Voltage CMOS Power Amp	8-VSP	735.00/2,000		
NJU7082BV-TE1CT-ND	Dual Low Voltage CMOS Power Amp	8-SSOP	.72	.60	.48
NJU7091AF-TE1CT-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	.51	.43	.34
NJU7091AF-TE1TR-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	892.50/3,000		
NJU7092AF-TE1CT-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	.39	.33	.26
NJU7092AF-TE1TR-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	682.50/3,000		
NJU#7093AF-TE1CT-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp*	5-MTP	.63	.53	.42
NJU#7093AF-TE1TR-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp*	5-MTP	1104.00/3,000		
NJU7094D-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-Dip	1.32	1.10	.88
NJU7094M-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-DMP	1.32	1.10	.88
NJU7094R-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	2.73	2.28	1.82
NJU7094R-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	3185.00/2,000		
NJU#7094RB1-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-TVSP	2.73	2.28	1.82
NJU#7094RB1-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-TVSP	3256.00/2,000		
NJU7094V-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	1.47	1.23	.98
NJU7094V-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	1715.00/2,000		
NJU7095D-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-Dip	1.26	1.05	.84
NJU7095M-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-DMP	1.26	1.05	.84
NJU7095R-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	2.73	2.28	1.82
NJU7095R-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	3185.00/2,000		
NJU7095RB1-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	2.73	2.28	1.82
NJU7095RB1-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	3185.00/2,000		
NJU7095V-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	2.73	2.28	1.82
NJU7095V-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	3185.00/2,000		
NJU7096M-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-DMP	.96	.80	.64
NJU#7096R-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-VSP	2.73	2.28	1.82
NJU#7096R-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-VSP	3256.00/2,000		
NJU7096RB1-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	2.73	2.28	1.82
NJU7096RB1-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	3185.00/2,000		
NJU7096V-TE2CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	2.73	2.28	1.82
NJU7096V-TE2TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	3185.00/2,000		
NJU7102AD-ND	CMOS Comparator with CMOS Output	8-Dip	3.15	2.63	2.10
NJU7102AM-ND	CMOS Comparator with CMOS Output	8-DMP	3.15	2.63	2.10
NJU8721V-TE1CT-ND	Class-D Headphone Amplifier for Digital Audio	20-SSOP	4.20	3.50	2.80
NJU8721V-TE1TR-ND	Class-D Headphone Amplifier for Digital Audio	20-SSOP	4900.00/2,000		
NJU8725V-TE1CT-ND	Class-D Amp for Digital Audio	24-SSOP	6.30	5.25	4.20
NJU8725V-TE1TR-ND	Class-D Amp for Digital Audio	24-SSOP	7350.00/2,000		
NJU#8752V-TE1CT-ND	Analog Signal Input Class-D Amp for Piezo Speaker*	14-SSOP	5.46	4.55	3.64
NJU#8752V-TE1TR-ND	Analog Signal Input Class-D Amp for Piezo Speaker*	14-SSOP	4236.00/2,000		
NJU#8754V-TE2CT-ND	Analog Signal Input Monaural Class-D Power Amp*	10-SSOP	2.19	1.83	1.46
NJU#8755V-TE1CT-ND	Analog Signal Input Stereo Class-D Power Amp*	20-SSOP	3.42	2.85	2.28
NJU#8755V-TE1TR-ND	Analog Signal Input Stereo Class-D Power Amp*	20-SSOP	3990.00/2,000		

JRC / NJR Corporation DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM#2577M-TE2CT-ND	Quad Video Driver*	20-DMP	3.00	2.50	2.00
NJM#2577M-TE2TR-ND	Quad Video Driver*	20-DMP	3500.00/2,000		
NJM#3517D2-ND	Stepper Motor Controller/Driver*	16-Dip	5.58	4.65	3.72
NJM#3517E2-ND	Stepper Motor Controller/Driver*	16-EMP	5.58	4.65	3.72
NJM#3717D2-ND	Stepper Motor Driver*	16-Dip	2.13	1.78	1.42
NJM#3770AD3-ND	Stepper Motor Driver*	16-Dip (Batwing)	4.50	3.75	3.00
NJM#3771D2-ND	Dual Stepper Motor Driver*	22-Dip	6.00	5.00	4.00
NJM#3771FM2-ND	Dual Stepper Motor Driver*	28-PLCC	6.00	5.00	4.00
NJM3772D2-ND	Dual Stepper Motor Driver	22-Dip	5.46	4.55	3.64
NJM#3772D2-ND	Dual Stepper Motor Driver*	22-Dip	5.58	4.65	3.72
NJM3773D2-ND	Dual Stepper Motor Driver	22-Dip	5.04	4.20	3.36
NJM#3773D2-ND	Dual Stepper Motor Driver*	22-Dip	5.13	4.28	3.42
NJM3774FM2-ND	Dual Stepper Motor Driver	28-PLCC	5.46	4.55	3.64
NJM#3775D2-ND	Dual Stepper Motor Driver*	22-Dip	5.13	4.28	3.42
NJM3775FM2-ND	Dual Stepper Motor Driver	28-PLCC	5.04	4.20	3.36

***** RoHS Compliant*

(Continued)

JRC / NJR Corporation DRIVERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM#3777E3-ND	Dual Stepper Motor Driver*	24-EMP	5.13	4.28	3.42
NJM37717E3-ND	Stepper Motor Driver	24-EMP	5.04	4.20	3.36
NJU6048F-TE1CT-ND	High Efficiency White LED Driver	SOT-23-5	1.68	1.40	1.12
NJU6048F-TE1TR-ND	High Efficiency White LED Driver	SOT-23-5	2940.00/3,000		
NJU#6050F-TE2CT-ND	High Efficiency White LED Driver*	SOT-23-5	1.50	1.25	1.00
NJU#6050F-TE2TR-ND	High Efficiency White LED Driver*	SOT-23-5	2625.00/3,000		
NJU#6060V-TE1CT-ND	Full Color LED Controller Driver with PWM Control*	10-SSOP	1.47	1.23	.98
NJU#6060V-TE1TR-ND	Full Color LED Controller Driver with PWM Control*	10-SSOP	1750.00/2,000		
NJU7325R-TE1CT-ND	Single-Phase DC Brushless Motor Driver	8-VSP	1.05	.88	.70
NJU7325R-TE1TR-ND	Single-Phase DC Brushless Motor Driver	8-VSP	1225.00/2,000		
NJU#8711V-TE2CT-ND	3V Operation Switching Driver for Class D Amp*	10-SSOP	2.52	2.10	1.68
NJU#8711V-TE2TR-ND	3V Operation Switching Driver for Class D Amp*	10-SSOP	3256.00/2,000		
NJU#8713V-TE1CT-ND	2V Operation Switching Driver for Class D Amp*	14-SSOP	2.73	2.28	1.82
NJU#8713V-TE1TR-ND	2V Operation Switching Driver for Class D Amp*	14-SSOP	2766.00/2,000		
NJW4301D-ND	2-Channel Bridge Driver	16-Dip	3.48	2.90	2.32
NJW4301M-ND	2-Channel Bridge Driver	30-SDMP	3.48	2.90	2.32

JRC / NJR Corporation MULTIPLEXER

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJU4051BM-ND	Single 8-Channel Mux	16-DMP	.93	.78	.62
NJU4053BD-ND	Triple 2-Channel Mux	16-Dip	.96	.80	.64

JRC / NJR Corporation POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM#78L12L2A-ND	12V, 100mA, Positive Voltage Regulator*	TO-92	.36	.30	.24
NJM78LR05BD-ND	Series Regulator with Reset Function	8-Dip	.72	.60	.48
NJM78LR05BM-ND	Series Regulator with Reset Function	8-DMP	.45	.38	.30
NJM#78L05UA-ND	5V, 100mA, Positive Voltage Regulator*	SOT-89	.39	.33	.26
NJM#78L06UA-ND	6V, 100mA, Positive Voltage Regulator*	SOT-89	.39	.33	.26
NJM#78L08UA-ND	8V, 100mA, Positive Voltage Regulator*	SOT-89	.39	.33	.26
NJM#78L09UA-ND	9V, 100mA, Positive Voltage Regulator*	SOT-89	.39	.33	.26
NJM#78L12UA-ND	12V, 100mA, Positive Voltage Regulator*	SOT-89	.39	.33	.26
NJM#78L15UA-ND	15V, 100mA, Positive Voltage Regulator*	SOT-89	.39	.33	.26
NJM78L20UA-ND	20V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM#78LR05BUTE1CT-ND	Series Regulator with Reset Function*	SOT-89-5	.63	.53	.42
NJM#78LR05BUTE1TR-ND	Series Regulator with Reset Function*	SOT-89-5	367.50/1,000		
NJM78LR05DD-ND	Series Regulator with Reset Function	8-Dip	.72	.60	.48
NJM78LR05DU-TE1CT-ND	Series Regulator with Reset Function	SOT-89-5	.60	.50	.40
NJM78LR05DU-TE1TR-ND	Series Regulator with Reset Function	SOT-89-5	350.00/1,000		
NJM#78M05FA-ND	5V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.57	.48	.38
NJM#78M09FA-ND	9V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.57	.48	.38
NJM#78M12FA-ND	12V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.57	.48	.38
NJM#78M15FA-ND	15V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.57	.48	.38
NJM#78M24FA-ND	24V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.57	.48	.38
NJM#79L05UA-ND	5V, 100mA, Negative Voltage Regulator*	SOT-89	.45	.38	.30
NJM#79L08UA-ND	8V, 100mA, Negative Voltage Regulator*	SOT-89	.45	.38	.30
NJM#79L09UA-TE1CT-ND	9V, 100mA, Negative Voltage Regulator*	SOT-89	.45	.38	.30
NJM#79L12L2A-ND	12V, 100mA, Negative Voltage Regulator*	TO-92	.42	.35	.28
NJM#79L12UA-ND	12V, 100mA, Negative Voltage Regulator*	SOT-89	.45	.38	.30
NJM79L15UA-ND	15V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM#79L15UA-ND	15V, 100mA, Negative Voltage Regulator*	SOT-89	.45	.38	.30
NJM79L24UA-ND	24V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM#79M05FA-ND	5V, 500mA, Negative Voltage Regulator with Isolated Tab*	TO-220F	.63	.53	.42
NJM79M08FA-ND	8V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M15FA-ND	15V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M18FA-ND	18V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M24FA-ND	24V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM317DL1-TE1CT-ND	Adjustable 3-Terminal Positive Voltage Regulator	TO-252	.90	.75	.60
NJM317DL1-TE1TR-ND	Adjustable 3-Terminal Positive Voltage Regulator	TO-252	1575.00/3,000		
NJM#317DL1-TE1CT-ND	Adjustable 3-Terminal Positive Voltage Regulator*	TO-252	.87	.73	.58
NJM#317DL1-TE1TR-ND	Adjustable 3-Terminal Positive Voltage Regulator*	TO-252	1524.00/3,000		
NJM#317F-ND	Adjustable 1.5A, Voltage Regulator with Isolated Tab*	TO-220F	.87	.73	.58
NJM431D-ND	Adjustable Precision Shunt Regulator	8-Dip	.48	.40	.32
NJM431E-ND	Adjustable Precision Shunt Regulator	8-SOIC	.42	.35	.28
NJM431L-ND	Adjustable Precision Shunt Regulator	TO-92	.42	.35	.28
NJM431M-ND	Adjustable Precision Shunt Regulator	8-DMP	.54	.45	.36
NJM723M-ND	Precision Voltage Regulator	14-DMP	.54	.45	.36
NJM#723M-ND	Precision Voltage Regulator*	14-DMP	.72	.60	.48
NJM#2355D-ND	2-Output High Voltage Switching Regulator*	18-Dip	2.58	2.15	1.72
NJM#2360D-ND	DC/DC Converter Control IC*	8-Dip	.84	.70	.56
NJM2370R02-TE1CT-ND	2.0V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	.60	.50	.40
NJM2370R02-TE1TR-ND	2.0V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	700.00/2,000		
NJM2370R03-TE1CT-ND	3.0V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	.60	.50	.40
NJM2370R03-TE1TR-ND	3.0V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	700.00/2,000		
NJM2370R37-TE1CT-ND	3.7V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	.60	.50	.40
NJM2370R37-TE1TR-ND	3.7V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	700.00/2,000		
NJM2370U03-TE1CT-ND	3.0V, Low Dropout Voltage Regulator with On/Off Control	SOT-89-5	.60	.50	.40
NJM2373AF-TE1CT-ND	Adjustable High Precision Shunt Regulator	5-MTP	.66	.55	.44
NJM2373AF-TE1TR-ND	Adjustable High Precision Shunt Regulator	5-MTP	1155.00/3,000		
NJM2373AU-TE1CT-ND	Adjustable High Precision Shunt Regulator	SOT-89	.84	.70	.56
NJM2373AU-TE1TR-ND	Adjustable High Precision Shunt Regulator	SOT-89	490.00/1,000		
NJM2384D-ND	DC/DC Converter Control	14-Dip	2.10	1.75	1.40
NJM2391DL103TE1CT-ND	3V, Low Dropout Voltage Regulator	TO-252	.84	.70	.56
NJM2391DL103TE1TR-ND	3V, Low Dropout Voltage Regulator	TO-252	1524.00/3,000		
NJM2396F05-ND	Low Dropout Voltage Regulator	TO-220F-4	1.14	.95	.76
NJM2396F63-ND	Low Dropout Voltage Regulator	TO-220F-4	1.05	.88	.70
NJM2397F-ND	Adjustable Low Dropout Voltage Regulator	TO-220F-4	1.14	.95	.76
NJM2800F3342TE1CT-ND	3.3V, Low Dropout Voltage Regulator with Reset	5-MTP	1.05	.88	.70
NJM2800F3342TE1TR-ND	3.3V, Low Dropout Voltage Regulator with Reset	5-MTP	1837.50/3,000		
NJM2800U3342TE1CT-ND	3.3V, Low Dropout Voltage Regulator with Reset	SOT-89-5	1.05	.88	.70
NJM2800U3342TE1TR-ND	3.3V, Low Dropout Voltage Regulator with Reset	SOT-89-5	630.00/1,000		
NJM2845DL118TE1CT-ND	1.8V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL118TE1TR-ND	1.8V, Low Dropout Voltage Regulator	TO-252	1102.50/3,000		
NJM2845DL123TE1CT-ND	2.3V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL123TE1TR-ND	2.3V, Low Dropout Voltage Regulator	TO-252	1102.50/3,000		
NJM2845DL125TE1CT-ND	2.5V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL103TE1CT-ND	3V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL103TE1TR-ND	3V, Low Dropout Voltage Regulator	TO-252	1102.50/3,000		
NJM2846DL303TE1CT-ND	3V, Low Dropout Voltage Regulator	TO-252-5	.81	.68	.54
NJM2846DL303TE1TR-ND	3V, Low Dropout Voltage Regulator	TO-252-5	1417.50/3,000		
NJM2846DL305TE1CT-ND	5V, Low Dropout Voltage Regulator	TO-252-5	.81	.68	.54
NJM2846DL305TE1TR-ND	5V, Low Dropout Voltage Regulator	TO-252-5	1417.50/3,000		
NJM2846DL318TE1CT-ND	1.8V, Low Dropout Voltage Regulator	TO-252-5	.81	.68	.54
NJM2846DL318TE1TR-ND	1.8V, Low Dropout Voltage Regulator	TO-252-5	1417.50/3,000		
NJM2846DL323TE1CT-ND	2.3V, Low Dropout Voltage Regulator	TO-252-5	.81	.68	.54
NJM2846DL323TE1TR-ND	2.3V, Low Dropout Voltage Regulator	TO-252-5	1417.50/3,000		
NJM2846DL333TE1CT-ND	3.3V, Low Dropout Voltage Regulator	TO-252-5	.81	.68	.54
NJM2860F3-25TE1CT-ND	Low Dropout Voltage Regulator	SC-88A	.45	.38	.30
NJM2860F3-25TE1TR-ND	Low Dropout Voltage Regulator	SC-88A	787.50/3,000		
NJM2860F3-33TE1CT-ND	Low Dropout Voltage Regulator	SC-88A	.45	.38	.30
NJM2860F3-33TE1TR-ND	Low Dropout Voltage Regulator	SC-88A	787.50/3,000		
NJM2860F3-47TE1CT-ND	Low Dropout Voltage Regulator	SC-88A	.45	.38	.30
NJM2860F3-47TE1TR-ND	Low Dropout Voltage Regulator	SC-88A	787.50/3,000		
NJM2863F03-TE1CT-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJM2863F03-TE1TR-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJM2863F28-TE1CT-ND	2.8V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJM2863F28-TE1TR-ND	2.8V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJM2863F29-TE1CT-ND	2.9V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJM2863F29-TE1TR-ND	2.9V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJM2864F03-TE1CT-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJM2864F03-TE1TR-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJM#2865F333TE1CT-ND	3.3V, Low Dropout Voltage Regulator*	SC88A	.48	.40	.32
NJM#2865F333TE1TR-ND	3.3V, Low Dropout Voltage Regulator*	SC88A	840.00/3,000		
NJM2870F21-TE1CT-ND	2.1V, Low Dropout Voltage Regulator	5-MTP	.42	.35	.28
NJM2870F21-TE1TR-ND	2.1V, Low Dropout Voltage Regulator	5-MTP	735.00/3,000		
NJM#2870F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator*	5-MTP	.39	.33	.26
NJM#2870F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator*	5-MTP	682.50/3,000		
NJM2870F48-TE1CT-ND	4.8V, Low Dropout Voltage Regulator	5-MTP	.42	.35	.28
NJM2870F48-TE1TR-ND	4.8V, Low Dropout Voltage Regulator	5-MTP	735.00/3,000		
NJM#2871AF25TE1CT-ND	2.5V, Low Dropout Voltage Regulator*	5-MTP	.48	.40	.32
NJM#2871AF25TE1TR-ND	2.5V, Low Dropout Voltage Regulator*	5-MTP	840.00/3,000		
NJM2880U21-TE1CT-ND	2.1V, Low Dropout Voltage Regulator	SOT-89-5	.75	.63	.50
NJM2880U21-TE1TR-ND	2.1V, Low Dropout Voltage Regulator	SOT-89-5	437.50/1,000		
NJM#2881F28-TE1CT-ND	2.8V, Low Dropout Voltage Regulator*	SOT-23-5	.54	.45	.36
NJM#2881F28-TE1TR-ND	2.8V, Low Dropout Voltage Regulator*	SOT-23-5	999.00/3,000		
NJM2886DL233TE1CT-ND	3.3V, Low Dropout Voltage Regulator	TO-252-5	.96	.80	.64
NJM2886DL233TE1TR-ND	3.3V, Low Dropout Voltage Regulator	TO-252-5	1680.00/3,000		
NJM2930F05-ND	5V, Low Dropout Voltage Regulator	TO-220F	.72	.60	.48
NJM2930F85-ND	8.5V, Low Dropout Voltage Regulator	TO-220F	.72	.60	.48
NJM2930L85-ND	8.5V, Low Dropout Voltage Regulator	TO-92	.54	.45	.36
NJM7905FA-ND	5V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM#7905FA-ND	5V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.78	.65	.52
NJM#7908FA-ND	8V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.78	.65	.52
NJM#7909FA-ND	9V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.78	.65	.52
NJM#7912FA-ND	12V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.78	.65	.52
NJM#7915FA-ND	15V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.78	.65	.52
NJM7918FA-ND	18V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM#7918FA-ND	18V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.78	.65	.52
NJM7924FA-ND	24V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM#7924FA-ND	24V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.78	.65	.52
NJU7201L12-ND	1.2V, CMOS 3-Terminal Positive Voltage Regulator	TO-92	.60	.50	.40
NJU#7201L232-ND	3.2V, CMOS 3-Terminal Positive Voltage Regulator*	TO-92	.60	.50	.40
NJU7201L55-ND	5.5V, CMOS 3-Terminal Positive Voltage Regulator	TO-92	.63	.53	.42
NJU#7201U32-ND	3.2V, CMOS 3-Terminal Positive Voltage Regulator*	SOT-89	.63	.53	.42
NJU7211L50-ND	-5.0V, CMOS 3-Terminal Negative Voltage Regulator	TO-92	.72	.60	.48
NJU7222L50-ND	5V, High Prec./Output Current CMOS 3-Terminal Voltage Reg.	TO-92	.84	.70	.56
NJU7222U30-ND	3V, High Prec./Output Current CMOS 3-Terminal Voltage Reg.	SOT-89	.66	.55	.44
NJU7222U50-ND	5V, High Prec./Output Current CMOS 3-Terminal Voltage Reg.	SOT-89	.66	.55	.44
NJU7223F18-ND	1.8V, 500mA Low Dropout Voltage Regulator	TO-220F	.93	.78	.62
NJU#7223F50-ND	5V, 500mA Low Dropout Voltage Regulator*	TO-220F	.93	.78	.62
NJU7231F12-TE1CT-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	.60	.50	.40
NJU7231F12-TE1TR-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	1050.00/3,000		
NJU7231F28-TE1CT-ND	2.8V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	.60	.50	.40
NJU7231F28-TE1TR-ND	2.8V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	1050.00/3,000		
NJU7231F52-TE1CT-ND	5.2V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	.60	.50	.40
NJU7231L12-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	TO-92	.75	.63	.50
NJU7231L28-ND	2.8V, High Precision CMOS 3-Terminal Voltage Regulator	TO-92	.75	.63	.50
NJU7231L52-ND	5.2V, High Precision CMOS 3-Terminal Voltage Regulator	TO-92	.75	.63	.50
NJU7231U18-TE1CT-ND	1.8V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	.60	.50	.40
NJU7231U18-TE1TR-ND	1.8V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	350.00/1,000		
NJU7231U30-TE1CT-ND	3V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	.60	.50	.40
NJU7231U30-TE1TR-ND	3V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	350.00/1,000		
NJU7231U50-TE1CT-ND	5V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	.60	.50	.40
NJU7231U50-TE1TR-ND	5V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	350.00/1,000		
NJU7241F18-TE1CT-ND	1.8V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	.69	.58	.46
NJU7241F18-TE1TR-ND	1.8V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	1207.50/3,000		
NJU7241F28-TE1CT-ND	2.8V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	.69	.58	.46
NJU7241F28-TE1TR-ND	2.8V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	1207.50/3,000		
NJU7241F40-TE1CT-ND	4V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	.69	.58	.46
NJU7241F40-TE1TR-ND	4V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	1207.50/3,000		
NJU7241F50-TE1CT-ND	5V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	.69	.58	.46
NJU7241F50-TE1TR-ND	5V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	1207.50/3,000		
NJU7250F25-TE1CT-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	.69	.58	.46
NJU7250F25-TE1TR-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	1207.50/3,000		
NJU7261U30-TE1CT-ND	3V, CMOS Step-Up Switching Regulator	SOT-89-5	.96	.80	.64
NJU7261U30-TE1TR-ND	3V, CMOS Step-Up Switching Regulator	SOT-89-5	560.00/1,000		
NJU7261U33-TE1CT-ND	3.3V, CMOS Step-Up Switching Regulator	SOT-89-5	.96	.80	.64
NJU7261U33-TE1TR-ND	3.3V, CMOS Step-Up Switching Regulator	SOT-89-5	560.00/1,000		
NJU7261U50-TE1CT-ND	5V, CMOS Step-Up Switching Regulator	SOT-89-5	.96	.80	.64
NJU7261U50-TE1TR-ND	5V, CMOS Step-Up Switching Regulator	SOT-89-5	560.00/1,000		
NJU7600M-ND	PWM Control Boost/Flyback Switching Regulator	8-DMP	1.26	1.05	.84
NJU#7662D-ND	DC/DC Voltage Converter*	8-Dip	1.50	1.25	1.00
NJU7665AF-TE1CT-ND	Small Package Voltage Inverter	5-MTP	1.26	1.05	.84

**** RoHS Compliant***

(Continued)

JRC / NJR Corporation POWER MANAGEMENT *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJU#7665CF-TE1CT-ND	Small Package Voltage Inverter*	5-MTP	1.26	1.05	.84
NJU7670V-TE1CT-ND	Voltage Tripler	14-SSOP	3.03	2.53	2.02
NJU7670V-TE1TR-ND	Voltage Tripler	14-SSOP	3535.00/2,000		
NJU7700F25-TE1CT-ND	2.5V, N-Channel Open Drain Voltage Detector	SOT-23-5	.42	.35	.28
NJU7700F25-TE1TR-ND	2.5V, N-Channel Open Drain Voltage Detector	SOT-23-5	735.00/3,000		
NJU7700F27-TE1CT-ND	2.7V, N-Channel Open Drain Voltage Detector	SOT-23-5	.42	.35	.28
NJU7700F27-TE1TR-ND	2.7V, N-Channel Open Drain Voltage Detector	SOT-23-5	735.00/3,000		
NJU7701F06-TE1CT-ND	6V, CMOS Output Voltage Detector	SOT-23-5	.42	.35	.28
NJU7701F06-TE1TR-ND	6V, CMOS Output Voltage Detector	SOT-23-5	735.00/3,000		
NJU7701F28-TE1CT-ND	2.8V, CMOS Output Voltage Detector	SOT-23-5	.42	.35	.28
NJU7701F28-TE1TR-ND	2.8V, CMOS Output Voltage Detector	SOT-23-5	735.00/3,000		
NJU7701F44-TE1CT-ND	4.4V, CMOS Output Voltage Detector	SOT-23-5	.42	.35	.28
NJU7701F44-TE1TR-ND	4.4V, CMOS Output Voltage Detector	SOT-23-5	735.00/3,000		
NJU7771F03-TE1CT-ND	3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7771F03-TE1TR-ND	3V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7771F05-TE1CT-ND	5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7772F03-TE1CT-ND	3V, Low Dropout Voltage Regulator	5-MTP	.42	.35	.28
NJU7772F03-TE1TR-ND	3V, Low Dropout Voltage Regulator	5-MTP	735.00/3,000		
NJU#7772F15-TE1CT-ND	1.5V, Low Dropout Voltage Regulator*	5-MTP	.42	.35	.28
NJU#7772F15-TE1TR-ND	1.5V, Low Dropout Voltage Regulator*	5-MTP	735.00/3,000		
NJU7773F25-TE1CT-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7773F25-TE1TR-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7773F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7773F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7774F03-TE1CT-ND	3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7774F03-TE1TR-ND	3V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7774F15-TE1CT-ND	1.5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7774F15-TE1TR-ND	1.5V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7774F28-TE1CT-ND	2.8V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7774F28-TE1TR-ND	2.8V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7775F05-TE1CT-ND	5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7775F05-TE1TR-ND	5V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7775F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7776F25-TE1CT-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7776F25-TE1TR-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7776F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7776F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		

JRC / NJR Corporation DigiReel® SPECIALIZED ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM1496M-ND	Double Balanced Modulator/Demodulator	14-DMP	1.65	1.38	1.10
NJM#2211D-ND	FSK Demodulator/Tone Decoder*	14-Dip	1.71	1.43	1.14
NJM#2211M-ND	FSK Demodulator/Tone Decoder*	14-SOIC	1.71	1.43	1.14
NJM2229M-ND	Sync. Separation with AFC	16-DMP	1.68	1.40	1.12
NJM2232AM-ND	FM IF with Log Amp	24-DMP	3.93	3.28	2.62
NJM2240D-ND	Video Sub-Carrier Signal Quadrupler	8-Dip	1.89	1.58	1.26
NJM2240M-ND	Video Sub-Carrier Signal Quadrupler	8-DMP	1.89	1.58	1.26
NJM2248D-ND	3-Input Video Superimposer	8-Dip	1.05	.88	.70
NJM2255M-ND	Chroma Signal Hue Tint Controller	8-DMP	1.68	1.40	1.12
NJM2257D-ND	Sync. Separator with AFC	16-Dip	2.85	2.38	1.90
NJM2259M-ND	RF Modulator for UHF Band	16-DMP	1.89	1.58	1.26
NJM2292V-TE1CT-ND	Narrow Band FM IF IC	20-SSOP	1.47	1.23	.98
NJM2292V-TE1TR-ND	Narrow Band FM IF IC	20-SSOP	1715.00/2,000		
NJM2294V-TE1CT-ND	FM IF IC for Pager	16-SSOP	3.99	3.33	2.66
NJM2294V-TE1TR-ND	FM IF IC for Pager	16-SSOP	3675.00/2,000		
NJM#2509V-TE1CT-ND	Video Superimposer with Y-C Mixer*	8-SSOP	1.68	1.40	1.12
NJM#2509V-TE1TR-ND	Video Superimposer with Y-C Mixer*	8-SSOP	1995.00/2,000		
NJM2519AM-ND	RF Modulator for VHF Band	8-DMP	1.26	1.05	.84
NJM#2537V-TE1CT-ND	Low Power FM IF IC for Pager* ***NEW!***	20-SSOP	2.37	1.98	1.58
NJM#2537V-TE1TR-ND	Low Power FM IF IC for Pager* ***NEW!***	20-SSOP	2765.00/2,000		
NJM2590V-TE1CT-ND	455kHz Input FM IF Demodulator	14-SSOP	2.10	1.75	1.40
NJM2592V-TE1CT-ND	470MHz Input Mixer 455kHz FM IF Demodulator	20-SSOP	3.15	2.63	2.10
NJM2594V-TE1CT-ND	Double Balanced Modulation/Demodulation	8-SSOP	2.94	2.45	1.96
NJM2594V-TE1TR-ND	Double Balanced Modulation/Demodulation	8-SSOP	3430.00/2,000		
NJM2611M-ND	Servo Motor Controller	16-DMP	2.10	1.75	1.40
NJM2624AD-ND	Brushless DC Motor Pre-Driver	16-Dip	1.77	1.48	1.18
NJM2624AM-ND	Brushless DC Motor Pre-Driver	16-DMP	1.77	1.48	1.18
NJM2761RB2-TE1CT-ND	Audio Limiter for Speaker Protection	10-TVSP	1.50	1.25	1.00
NJM3524D-ND	Switching Regulator Control Circuit	16-Dip	1.17	.98	.78
NJM3524M-ND	Switching Regulator Control Circuit	16-DMP	1.17	.98	.78
NJM#4151D-ND	Voltage-to-Frequency/Frequency-to-Voltage Converter*	8-Dip	2.37	1.98	1.58
NJM#7805FA-ND	5V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM#7806FA-ND	6V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM#7808FA-ND	8V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM#7809FA-ND	9V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM#7812FA-ND	12V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM#7815FA-ND	15V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM#7818FA-ND	18V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM#7820FA-ND	20V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM#7824FA-ND	24V, 1A Positive Voltage Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJU3711D-ND	8-Bit Serial to Parallel Converter	14-Dip	1.17	.98	.78
NJU3712D-ND	8-Bit, 25mA, Serial to Parallel Output Expander	16-Dip	1.80	1.50	1.20
NJU#3712M-ND	8-Bit, 25mA, Serial to Parallel Output Expander*	16-SOIC	1.83	1.53	1.22
NJU#3716M-ND	16-Bit, 25mA, Serial to Parallel Output Expander*	24-SOIC	2.28	1.90	1.52
NJU#6355ED-ND	Serial In/Out Real Time Clock*	8-Dip	1.71	1.43	1.14
NJU#39610D2-ND	Microstepping Motor Controller with Dual DAC*	22-Dip	8.58	7.15	5.72
NJU#39610FM2-ND	Microstepping Motor Controller with Dual DAC*	28-PLCC	8.58	7.15	5.72
NJW1150M-ND	6-Channel Electronic Volume	30-SDMP	5.88	4.90	3.92
NJW1151M-ND	6-Channel Electronic Volume	30-SDMP	8.40	7.00	5.60
NJW1503AV-TE1CT-ND	PLL Synthesizer with 3-Wire Bus for TV Tuner	16-SSOP	2.52	2.10	1.68
NJW1503AV-TE1TR-ND	PLL Synthesizer with 3-Wire Bus for TV Tuner	16-SSOP	2940.00/2,000		
NJW1504V-TE1CT-ND	PLL Synthesizer with I^{2}C Bus for TV Tuner	16-SSOP	2.52	2.10	1.68
NJW1508V-TE1CT-ND	PLL Synthesizer with I^{2}C Bus for TV Tuner	16-SSOP	1.77	1.48	1.18
NJW1508V-TE1TR-ND	PLL Synthesizer with I^{2}C Bus for TV Tuner	16-SSOP	2065.00/2,000		

JRC / NJR Corporation SWITCHES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJG1505R-TE1CT-ND	SPDT Switch, GaAs MMIC	8-VSP	1.89	1.58	1.26
NJG1505R-TE1TR-ND	SPDT Switch, GaAs MMIC	8-VSP	2205.00/2,000		
NJG#1505R-TE1CT-ND	SPDT Switch, GaAs MMIC*	8-VSP	1.89	1.58	1.26
NJG#1505R-TE1TR-ND	SPDT Switch, GaAs MMIC*	8-VSP	2240.00/2,000		
NJG1506R-TE2CT-ND	SPDT Switch, GaAs MMIC	8-VSP	1.47	1.23	.98
NJG1506R-TE2TR-ND	SPDT Switch, GaAs MMIC	8-VSP	1715.00/2,000		
NJG1512V-TE1CT-ND	SPDT Switch, GaAs MMIC	14-SSOP	2.28	1.90	1.52
NJG1512V-TE1TR-ND	SPDT Switch, GaAs MMIC	14-SSOP	2660.00/2,000		
NJG1516R-TE1CT-ND	SPDT Switch, GaAs MMIC	8-VSP	2.10	1.75	1.40
NJG1516R-TE1TR-ND	SPDT Switch, GaAs MMIC	8-VSP	2450.00/2,000		
NJG1519KC1-TE3CT-ND	SP4T Switch, GaAs MMIC	10-FLP	2.73	2.28	1.82
NJG1519KC1-TE3TR-ND	SP4T Switch, GaAs MMIC	10-FLP	4777.50/3,000		
NJG1522KB2-TE1CT-ND	SPDT Switch, GaAs MMIC	6-FLP	1.26	1.05	.84
NJG1522KB2-TE1TR-ND	SPDT Switch, GaAs MMIC	6-FLP	2205.00/3,000		
NJG1524APC1-TE1CT-ND	DPDT Switch, GaAs MMIC	16-FFP	2.94	2.45	1.96
NJG1524APC1-TE1TR-ND	DPDT Switch, GaAs MMIC	16-FFP	6860.00/4,000		
NJG1528KC1-TE3CT-ND	DPDT Switch, GaAs MMIC	10-FLP	3.48	2.90	2.32
NJG1528KC1-TE3TR-ND	DPDT Switch, GaAs MMIC	10-FLP	6090.00/3,000		
NJG#1532KB2-TE2CT-ND	SPDT Switch, GaAs MMIC*	6-FLP	1.26	1.05	.84
NJG#1532KB2-TE2TR-ND	SPDT Switch, GaAs MMIC*	6-FLP	2259.00/3,000		
NJG1544HC3-TE1CT-ND	2x2 Antenna Switch GaAs MMIC	10-USB	1.47	1.23	.98
NJG1544HC3-TE1TR-ND	2x2 Antenna Switch GaAs MMIC	10-USB	2572.50/3,000		
NJG1617K11-TE1CT-ND	Wireless LAN DPDT GaAs MMIC Switch	12-QFN	1.38	1.15	.92
NJM2233BD-ND	2-Input Single Video Switch	8-Dip	.42	.35	.28
NJM2234D-ND	3-Input Video Switch	8-Dip	.51	.43	.34
NJM#2234M-ND	3-Input Video Switch*	8-DMP	.51	.43	.34
NJM#2244M-ND	3-Input Video Switch*	8-DMP	.57	.48	.38
NJM2249D-ND	3-Input Video Switch	8-Dip	1.05	.88	.70
NJM2249M-ND	3-Input Video Switch	8-DMP	1.05	.88	.70
NJM#2279D-ND	3-Input, 2-Output Video Switch for AV-Set*	14-Dip	1.50	1.25	1.00
NJM2283D-ND	2-Input, 3-Channel Video Switch	16-Dip	1.50	1.25	1.00
NJM2283M-ND	2-Input, 3-Channel Video Switch	16-DMP	1.35	1.13	.90
NJM2284V-TE1CT-ND	2-Input, 3-Channel Video Switch	16-SSOP	1.14	.95	.76
NJM2284V-TE1TR-ND	2-Input, 3-Channel Video Switch	16-SSOP	1330.00/2,000		
NJM2285M-ND	2-Input, 3-Channel Video Switch	16-DMP	1.17	.98	.78
NJM2285V-TE2CT-ND	2-Input, 3-Channel Video Switch	16-SSOP	1.17	.98	.78
NJM2285V-TE2TR-ND	2-Input, 3-Channel Video Switch	16-SSOP	1365.00/2,000		
NJM2286D-ND	2-Input, 3-Channel Video Switch	16-Dip	1.50	1.25	1.00
NJM#2286V-TE1CT-ND	2-Input, 3-Channel Video Switch*	16-SSOP	1.29	1.08	.86
NJM#2286V-TE1TR-ND	2-Input, 3-Channel Video Switch*	16-SSOP	1506.00/2,000		
NJM2296D-ND	5-Input, 3-Output Video Switch	16-Dip	2.19	1.83	1.46
NJM2296M-ND	5-Input, 3-Output Video Switch	16-DMP	1.98	1.65	1.32
NJM2506M-ND	3-Input, 2-Input Video Switch	16-DMP	1.08	.90	.72
NJM2508M-ND	3-Input, 2-Input Video Switch	16-DMP	1.26	1.05	.84
NJM2513M-ND	3-Input, 2-Input Video Switch	16-DMP	1.35	1.13	.90
NJM2520M-ND	2-Input, 1-Output Audio Switch	8-DMP	.48	.40	.32
NJM2521D-ND	3-Input, 1-Output Audio Switch	8-Dip	.66	.55	.44
NJM2533D-ND	2-Input, 1-Output Video Switch	8-Dip	.51	.43	.34
NJM2534D-ND	3-Input, 1-Output Video Switch	8-Dip	.66	.55	.44
NJM2534M-ND	3-Input, 1-Output Video Switch	8-DMP	.66	.55	.44
NJM2535D-ND	3-Input, 1-Output Video Switch	8-Dip	.66	.55	.44
NJM2535M-ND	3-Input, 1-Output Video Switch	8-DMP	.66	.55	.44
NJM2536AM-ND	RF Modulator for VHF Band	14-DMP	1.05	.88	.70
NJM2537V-TE1CT-ND	FM IF IC for Pagers	20-SSOP	2.70	2.25	1.80
NJM2542V-TE1CT-ND	VIF/SIF Demodulator	20-SSOP	1.77	1.48	1.18
NJM2542V-TE1TR-ND	VIF/SIF Demodulator	20-SSOP	2065.00/2,000		
NJM2584D-ND	Wideband 3-Circuits Video Switch	16-Dip	1.68	1.40	1.12
NJM2595M-ND	5-Input, 3-Output Video Switch	16-DMP	1.77	1.48	1.18
NJM2596M-ND	5-Input, 3-Output Video Switch for S2	24-DMP	3.36	2.80	2.24
NJM#2670D2-ND	Dual H-Bridge Driver*	22-Dip	4.92	4.10	3.28
NJM#2670E3-ND	Dual H-Bridge Driver*	24-EMP	4.92	4.10	3.28
NJM#2902M-ND	Quad Single Supply Op Amp*	14-DMP	.96	.80	.64
NJM#2902N-ND	Quad Single Supply Op Amp*	14-Dip	.96	.80	.64
NJM#3403AD-ND	Single Supply Quad Op Amp*	14-Dip	.99	.83	.66
NJM3403AM-ND	Single Supply Quad Op Amp	14-DMP	.96	.80	.64
NJM#3404AD-ND	Single Supply Dual Op Amp*	8-Dip	1.02	.85	.68
NJU#201AM-ND	CMOS Quad SPST Analog Switch*	16-DMP	1.32	1.10	.88
NJU211D-ND	CMOS Quad SPST Analog Switch	16-Dip	1.38	1.15	.92
NJU211M-ND	CMOS Quad SPST Analog Switch	16-DMP	1.17	.98	.78
NJU4066BM-ND	CMOS Quad Analog Switch	14-DMP	.72	.60	.48
NJU7301M-ND	CMOS Quad SPST Analog Switch	16-DMP	1.44	1.20	.96
NJU7311AM-ND	Analog Function Switch	30-DMP	3.36	2.80	2.24
NJU7312AM-ND	Analog Function Switch	30-DMP	2.34	1.95	1.56
NJU7313AM-ND	Analog Function Switch	30-DMP	3.09	2.58	2.06
NJU7600RB1-TE1CT-ND	High Speed, Low Voltage Op Switching Regulator	8-TVSP	1.26	1.05	.84
NJU7600RB1-TE1TR-ND	High Speed, Low Voltage Op Switching Regulator	8-TVSP	1470.00/2,000		

SHARP MICROELECTRONICS OF THE AMERICAS LDO REGULATORS

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PQ05DZ1UJ00H	425-2630-1-ND	5.0V, 1.0A, Reg. with ON/OFF Control*	SC-63	1.44	1.13	.74
PQ05DZ1UJ00H	425-2630-2-ND	5.0V, 1.0A, Reg. with ON/OFF Control*	SC-63	1599.00/3,000		
PQ05RD21J00H	425-2256-5-ND	5.0V, 2.0A, Reg. with ON/OFF Control*	TO-220	1.71	1.43	1.00
PQ05RR12	425-1599-5-ND	5.0V, 1.0A, Reg. with Reset, 5%	TO-220	2.04	1.70	1.19
PQ05VY3H3ZPH	425-2632-1-ND	5.0V, 3.5A, Reg. with ON/OFF Control*	TO-263	3.36	2.64	1.73
PQ05VY3H3ZPH	425-2632-2-ND	5.0V, 3.5A, Reg. with ON/OFF Control*	TO-263	1248.00/1,000		
PQ05VY3H3ZZ	425-1602-5-ND	5.0V, 3.5A, Reg. with ON/OFF Control	TO-263	2.88	2.40	1.68
PQ05VY053ZPH	425-2631-1-ND	5.0V, 5.0A, Reg. with ON/OFF Control*	TO-263	3.57	2.81	1.84
PQ05VY053ZPH	425-2631-2-ND	5.0V, 5.0A, Reg. with ON/OFF Control*	TO-263	1326.00/1,000		
PQ05VY053ZZ	425-1601-5-ND	5.0V, 5.0A, Reg. with ON/OFF Control	TO-263	2.55	1.70	1.38
PQ07RX11	425-1609-5-ND	Adj., 1.0A, Reg. with ON/OFF Control	TO-220	1.53	1.28	.90
PQ07VR5MAZZ	425-1610-5-ND	Adj., 0.5A, Reg. with Reset @ 4.2V	SC-63	1.26	.99	.72
PQ09DZ1U	425-1616-2-ND	9V, 1.0A, Reg. with ON/OFF Control	SC-63	1599.00/3,000		
PQ09DZ51	425-1617-5-ND	9V, 0.5A, Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ09DZ51	425-1617-2-ND	9V, 0.5A, Reg. with ON/OFF Control	SC-63	1482.00/3,000		
PQ09RA1	425-1618-5-ND	9V, 1.0A, Reg. with ON/OFF Control, 5%	TO-220	1.77	1.48	1.04
PQ09RA11	425-1619-5-ND	9V, 1.0A, Reg. with ON/OFF Control, 2.5%	TO-220	1.95	1.63	1.14
PQ09RD08	425-1620-5-ND	9V, 0.8A, Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ09RD11	425-1621-5-ND	9V, 1.0A, Reg. with ON/OFF Control	TO-220	1.58	1.24	.90
PQ09RD1B	425-1622-5-ND	9V, 1.0A, Reg. with ON/OFF Control	TO-220†	1.47	1.16	.84

***RoHS Compliant** † Lead Form *(Continued)*

SHARP MICROELECTRONICS OF THE AMERICAS LDO REGULATORS *(Continued)*

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PQ010FZ5MZZ	425-1551-5-ND	1.0V, 0.5A, Reg. with ON/OFF Control	SC-63	1.16	.91	.66
PQ010FZ01ZZ	425-1550-5-ND	1.0V, 1.0A, Reg. with ON/OFF Control	SC-63	1.30	1.02	.74
PQ010GN01ZPH	425-2543-1-ND	1.0V, 1.0A, Reg. with ON/OFF Control*	SC-63	.98	.77	.51
PQ010GN01ZPH	425-2543-2-ND	1.0V, 1.0A, Reg. with ON/OFF Control*	SC-63	1092.00/3,000		
PQ012GN01ZPH	425-2544-1-ND	1.2V, 1.0A, Reg. with ON/OFF Control*	SC-63	.98	.77	.51
PQ012GN01ZPH	425-2544-2-ND	1.2V, 1.0A, Reg. with ON/OFF Control*	SC-63	1092.00/3,000		
PQ015EF01SZ	425-1554-5-ND	1.5V, 1.0A, Reg. with ON/OFF Control	TO-220	1.12	.88	.64
PQ015EH01ZPH	425-2545-1-ND	1.5V, 1.0A, Reg. with ON/OFF Control*	TO-263	1.47	1.16	.76
PQ015EH01ZPH	425-2545-2-ND	1.5V, 1.0A, Reg. with ON/OFF Control*	TO-263	546.00/1,000		
PQ015EH01ZZ	425-1555-5-ND	1.5V, 1.0A, Reg. with ON/OFF Control	TO-263	1.47	1.16	.84
PQ015EH02ZPH	425-2547-1-ND	1.5V, 2.0A, Reg. with ON/OFF Control*	TO-263	1.86	1.46	.96
PQ015EH02ZPH	425-2547-2-ND	1.5V, 2.0A, Reg. with ON/OFF Control*	TO-263	689.00/1,000		
PQ015EH02ZZ	425-1556-5-ND	1.5V, 2.0A, Reg. with ON/OFF Control	TO-263	1.59	1.33	.93
PQ015ENA1ZPH	425-2619-1-ND	1.5V, 1.0A, Reg. with ON/OFF Control*	SC-63	1.40	1.10	.72
PQ015ENA1ZPH	425-2619-2-ND	1.5V, 1.0A, Reg. with ON/OFF Control*	SC-63	1560.00/3,000		
PQ015EZ01ZPH	425-2624-1-ND	1.5V, 1.0A, Reg. with ON/OFF Control*	SC-63	1.47	1.16	.76
PQ015EZ01ZPH	425-2624-2-ND	1.5V, 1.0A, Reg. with ON/OFF Control*	SC-63	1638.00/3,000		
PQ015EZ1HZPH	425-2627-1-ND	1.5V, 1.5A, Reg. with ON/OFF Control*	SC-63	1.68	1.32	.87
PQ015EZ1HZPH	425-2627-2-ND	1.5V, 1.5A, Reg. with ON/OFF Control*	SC-63	1872.00/3,000		
PQ015EZ1HZZ	425-1558-5-ND	1.5V, 1.5A, Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ015EZ5MZZ	425-1559-5-ND	1.5V, 0.5A, Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ015Y3H3ZPH	425-2548-1-ND	1.5V, 3.5A, Reg. with ON/OFF Control*	TO-263	3.33	2.62	1.71
PQ015Y3H3ZPH	425-2548-2-ND	1.5V, 3.5A, Reg. with ON/OFF Control*	TO-263	1235.00/1,000		
PQ015Y3H3ZZ	425-1561-5-ND	1.5V, 3.5A, Reg. with ON/OFF Control	SC-63	2.85	2.38	1.67
PQ015YZ01ZZ	425-1562-5-ND	Adj., 1.0A, Reg. with ON/OFF Control	SC-63	1.30	1.02	.74
PQ015YZ5MZPH	425-2661-1-ND	Adj., 0.5A, Regulator*	SC-63	1.16	.91	.60
PQ015YZ5MZPH	425-2661-2-ND	Adj., 0.5A, Regulator*	SC-63	1287.00/3,000		
PQ015YZ5MZZ	425-1563-5-ND	1.5V, 0.5A, Reg. with ON/OFF Control	SC-63	1.16	.91	.66
PQ018EF01SZ	425-1564-5-ND	1.8V, 1.0A, Reg. with ON/OFF Control	TO-220	1.12	.88	.64
PQ018EF01SZH	425-2229-5-ND	1.8V, 1.0A, Reg. with ON/OFF Control*	TO-220	1.12	.88	.64
PQ018EH01ZPH	425-2546-1-ND	1.8V, 1.0A, Reg. with ON/OFF Control*	TO-263	1.47	1.16	.76
PQ018EH01ZPH	425-2546-2-ND	1.8V, 1.0A, Reg. with ON/OFF Control*	TO-263	546.00/1,000		
PQ018EH01ZZ	425-1565-5-ND	1.8V, 1.0A, Reg. with ON/OFF Control	TO-263	1.47	1.16	.84
PQ018EH02ZPH	425-2549-1-ND	1.8V, 2.0A, Reg. with ON/OFF Control*	TO-263	1.86	1.46	.96
PQ018EH02ZPH	425-2549-2-ND	1.8V, 2.0A, Reg. with ON/OFF Control*	TO-263	689.00/1,000		
PQ018EN01ZPH	425-2623-1-ND	1.8V, 1.0A, Reg. with ON/OFF Control*	SC-63	1.40	1.10	.72
PQ018EN01ZPH	425-2623-2-ND	1.8V, 1.0A, Reg. with ON/OFF Control*	SC-63	1560.00/3,000		
PQ018ENA1ZPH	425-2620-1-ND	1.8V, 1.0A, Reg. with ON/OFF Control*	SC-63	1.40	1.10	.72
PQ018ENA1ZPH	425-2620-2-ND	1.8V, 1.0A, Reg. with ON/OFF Control*	SC-63	1560.00/3,000		
PQ018EZ01ZZ	425-1567-5-ND	1.8V, 1.0A, Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ018EZ02ZPH	425-2550-1-ND	1.8V, 2.0A, Reg. with ON/OFF Control*	SC-63	1.65	1.30	.85
PQ018EZ02ZPH	425-2550-2-ND	1.8V, 2.0A, Reg. with ON/OFF Control*	SC-63	1833.00/3,000		
PQ018EZ1HZPH	425-2551-1-ND	1.8V, 1.5A, Reg. with ON/OFF Control*	SC-63	1.68	1.32	.87
PQ018EZ1HZPH	425-2551-2-ND	1.8V, 1.5A, Reg. with ON/OFF Control*	SC-63	1872.00/3,000		
PQ018EZ1HZZ	425-1568-5-ND	1.8V, 1.5A, Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ018EZ5MZZ	425-1569-5-ND	1.8V, 0.5A, Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ025EF02SZH	425-2688-5-ND	2.5V, 2.0A, Reg. with ON/OFF Control*	TO-220	1.54	1.21	.88
PQ025EH01ZPH	425-2552-1-ND	2.5V, 1.0A, Reg. with ON/OFF Control*	TO-263	1.47	1.16	.76
PQ025EH01ZPH	425-2552-2-ND	2.5V, 1.0A, Reg. with ON/OFF Control*	TO-263	546.00/1,000		
PQ025EH01ZZ	425-1571-5-ND	2.5V, 1.0A, Reg. with ON/OFF Control	TO-263	1.47	1.16	.84
PQ025EH02ZPH	425-2553-1-ND	2.5V, 2.0A, Reg. with ON/OFF Control*	TO-263	1.86	1.46	.96
PQ025EH02ZPH	425-2553-2-ND	2.5V, 2.0A, Reg. with ON/OFF Control*	TO-263	689.00/1,000		
PQ025ENA1ZPH	425-2621-1-ND	2.5V, 1.0A, Reg. with ON/OFF Control*	SC-63	1.40	1.10	.72
PQ025ENA1ZPH	425-2621-2-ND	2.5V, 1.0A, Reg. with ON/OFF Control*	SC-63	1560.00/3,000		
PQ025EZ01ZPH	425-2625-1-ND	2.5V, 1.0A, Reg. with ON/OFF Control*	SC-63	1.47	1.16	.76
PQ025EZ01ZPH	425-2625-2-ND	2.5V, 1.0A, Reg. with ON/OFF Control*	SC-63	1638.00/3,000		
PQ025EZ02ZPH	425-2554-1-ND	2.5V, 2.0A, Reg. with ON/OFF Control*	SC-63	1.65	1.30	.85
PQ025EZ02ZPH	425-2554-2-ND	2.5V, 2.0A, Reg. with ON/OFF Control*	SC-63	1833.00/3,000		
PQ025EZ1HZZ	425-1574-5-ND	2.5V, 1.5A, Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ025EZ5MZZ	425-1575-5-ND	2.5V, 0.5A, Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ025Y3H3ZPH	425-2555-1-ND	2.5V, 3.5A, Reg. with ON/OFF Control*	TO-263	3.33	2.62	1.71
PQ025Y3H3ZPH	425-2555-2-ND	2.5V, 3.5A, Reg. with ON/OFF Control*	TO-263	1235.00/1,000		
PQ025Y3H3ZZ	425-1577-5-ND	2.5V, 3.5A, Reg. with ON/OFF Control	SC-63	2.85	2.38	1.67
PQ030EZ01ZZ	425-1578-5-ND	3.0V, 1.0A, Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ030EZ1HZZ	425-1579-5-ND	3.0V, 1.5A, Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ030EZ5MZZ	425-1580-5-ND	3.0V, 0.5A, Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ033DNA1ZPH	425-2556-1-ND	3.3V, 1.0A, Reg. with ON/OFF Control*	SC-63	.95	.69	.42
PQ033DNA1ZPH	425-2556-2-ND	3.3V, 1.0A, Reg. with ON/OFF Control*	SC-63	882.00/3,000		
PQ033ENA1ZPH	425-2622-1-ND	3.3V, 1.0A, Reg. with ON/OFF Control*	SC-63	1.40	1.10	.72
PQ033ENA1ZPH	425-2622-2-ND	3.3V, 1.0A, Reg. with ON/OFF Control*	SC-63	1560.00/3,000		
PQ033EZ01ZPH	425-2626-1-ND	3.3V, 1.0A, Reg. with ON/OFF Control*	SC-63	1.47	1.16	.76
PQ033EZ01ZPH	425-2626-2-ND	3.3V, 1.0A, Reg. with ON/OFF Control*	SC-63	1638.00/3,000		
PQ033EZ01ZZ	425-1583-5-ND	3.3V, 1.0A, Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ033EZ1HZPH	425-2557-1-ND	3.3V, 1.5A, Reg. with ON/OFF Control*	SC-63	1.68	1.32	.87
PQ033EZ1HZPH	425-2557-2-ND	3.3V, 1.5A, Reg. with ON/OFF Control*	SC-63	1872.00/3,000		
PQ033EZ5MZZ	425-1585-5-ND	3.3V, 0.5A, Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ033Y053ZZ	425-1586-5-ND	3.3V, 5.0A, Reg. with ON/OFF Control	SC-63	2.55	1.70	1.38
PQ033Y3H3ZPH	425-2558-1-ND	3.3V, 3.5A, Reg. with ON/OFF Control*	TO-263	3.33	2.62	1.71
PQ033Y3H3ZPH	425-2558-2-ND	3.3V, 3.5A, Reg. with ON/OFF Control*	TO-263	1235.00/1,000		
PQ033Y3H3ZZ	425-1587-5-ND	3.3V, 3.5A, Reg. with ON/OFF Control	SC-63	2.85	2.38	1.67
PQ035ZN01ZPH	425-2628-1-ND	3.5V, 1.0A, Reg. with ON/OFF Control*	SC-63	1.02	.80	.53
PQ035ZN01ZPH	425-2628-2-ND	3.5V, 1.0A, Reg. with ON/OFF Control*	SC-63	1131.00/3,000		
PQ050DNA1ZPH	425-2559-1-ND	5.0V, 1.0A, Reg. with ON/OFF Control*	SC-63	.95	.69	.42
PQ050DNA1ZPH	425-2559-2-ND	5.0V, 1.0A, Reg. with ON/OFF Control*	SC-63	882.00/3,000		
PQ050RDA1SZH	425-2600-5-ND	5.0V, 1.0A, Reg. with ON/OFF Control*	TO-220-4	.95	.75	.54
PQ050RDA2SZH	425-2629-5-ND	5.0V, 2.0A, Reg. with ON/OFF Control*	TO-220	1.19	.94	.68
PQ070VK01FZH	425-2560-5-ND	Adj., 1.0A, Reg. with ON/OFF Control*	TO-220-5	2.23	1.75	1.15
PQ070VK02FZH	425-2601-5-ND	Adj., 2.0A, Reg. with ON/OFF Control*	TO-220-5	1.59	1.33	.93
PQ070XF01SZH	425-2689-5-ND	7.0V, 1.0A, Reg. with ON/OFF Control*	TO-220	1.12	.88	.64
PQ070XH01ZPH	425-2633-1-ND	Adj., 1.0A, Reg. with ON/OFF Control*	TO-263	1.47	1.16	.76
PQ070XH01ZPH	425-2633-2-ND	Adj., 1.0A, Reg. with ON/OFF Control*	TO-263	546.00/1,000		
PQ070XH01ZZ	425-1604-5-ND	Adj., 1.0A, Reg. with ON/OFF Control	TO-263	1.47	1.16	.84
PQ070XH02ZPH	425-2634-1-ND	Adj., 2.0A, Reg. with ON/OFF Control*	TO-263	1.86	1.46	.96
PQ070XH02ZPH	425-2634-2-ND	Adj., 2.0A, Reg. with ON/OFF Control*	TO-263	689.00/1,000		
PQ070XNA1ZPH	425-2662-1-ND	7.0V, 1.0A, Regulator*	SC-63	1.40	1.10	.72
PQ070XNA1ZPH	425-2662-2-ND	7.0V, 1.0A, Regulator*	SC-63	1560.00/3,000		
PQ070XZ01ZPH	425-2635-1-ND	Adj., 1.0A, Reg. with ON/OFF Control*	SC-63	1.47	1.16	.76
PQ070XZ01ZPH	425-2635-2-ND	Adj., 1.0A, Reg. with ON/OFF Control*	SC-63	1638.00/3,000		
PQ070XZ02ZPH	425-2636-1-ND	Adj., 2.0A, Reg. with ON/OFF Control*	SC-63	1.65	1.30	.85
PQ070XZ02ZPH	425-2636-2-ND	Adj., 2.0A, Reg. with ON/OFF Control*	SC-63	1833.00/3,000		
PQ070XZ1HZPH	425-2637-1-ND	Adj., 1.5A, Reg. with ON/OFF Control*	SC-63	1.68	1.32	.87
PQ070XZ1HZPH	425-2637-2-ND	Adj., 1.5A, Reg. with ON/OFF Control*	SC-63	1872.00/3,000		
PQ070XZ5MZZ	425-1608-5-ND	Adj., 0.5A, Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ090DNA1ZPH	425-2638-1-ND	9.0V, 1.0A, Reg. with ON/OFF Control*	SC-63	.95	.69	.42
PQ090DNA1ZPH	425-2638-2-ND	9.0V, 1.0A, Reg. with ON/OFF Control*	SC-63	882.00/3,000		
PQ090RDA1SZH	425-2690-5-ND	9.0V, 1.0A, Reg. with ON/OFF Control*	TO-220	.95	.75	.54
PQ1K253M2ZP	425-1643-1-ND	2.5V, 300mA, Reg. with ON/OFF Control	SOT-23L	.72	.52	.32
PQ1K253M2ZP	425-1643-2-ND	2.5V, 300mA, Reg. with ON/OFF Control	SOT-23L	1120.00/5,000		
PQ1K303M2ZP	425-1644-1-ND	3.0V, 300mA, Reg. with ON/OFF Control	SOT-23L	.72	.52	.32
PQ1K303M2ZP	425-1644-2-ND	3.0V, 300mA, Reg. with ON/OFF Control	SOT-23L	1120.00/5,000		
PQ1K333M2ZP	425-1645-1-ND	3.3V, 300mA, Reg. with ON/OFF Control	SOT-23L	.72	.52	.32
PQ1K333M2ZP	425-1645-2-ND	3.3V, 300mA, Reg. with ON/OFF Control	SOT-23L	1120.00/5,000		
PQ1K503M2ZP	425-1650-1-ND	5.0V, 300mA, Reg. with ON/OFF Control	SOT-23L	.72	.52	.32
PQ1K503M2ZP	425-1650-2-ND	5.0V, 300mA, Reg. with ON/OFF Control	SOT-23L	1120.00/5,000		
PQ1KA333MZPH	425-2673-1-ND	3.3V, 300mA, Reg. with ON/OFF Control*	SOT-23L	.53	.42	.27
PQ1KA333MZPH	425-2673-2-ND	3.3V, 300mA, Reg. with ON/OFF Control*	SOT-23L	1050.00/5,000		
PQ1L253M2SP	425-1651-1-ND	2.5V, 300mA, Reg. with ON/OFF Control	SOT-89	.68	.49	.30
PQ1L303M2SP	425-1652-1-ND	3.0V, 300mA, Reg. with ON/OFF Control	SOT-89	.68	.49	.30
PQ1LA333MSPQ	425-2674-1-ND	3.3V, 300mA, Reg with ON/OFF Control*	SOT-89-5	.51	.40	.27
PQ1LA333MSPQ	425-2674-2-ND	3.3V, 300mA, Reg with ON/OFF Control*	SOT-89-5	203.00/1,000		
PQ1LA503MSPQ	425-2675-1-ND	5V, 300mA, Reg. with ON/OFF Control*	SOT-89-5	.51	.40	.27
PQ1LA503MSPQ	425-2675-2-ND	5V, 300mA, Reg. with ON/OFF Control*	SOT-89-5	203.00/1,000		
PQ1M185M2SPQ	425-2676-1-ND	1.8V, 500mA Reg. with ON/OFF Control*	SOT-89-5	.63	.50	.33
PQ1M185M2SPQ	425-2676-2-ND	1.8V, 500mA Reg. with ON/OFF Control*	SOT-89-5	252.00/1,000		
PQ1MX55M2SPQ	425-2677-1-ND	Adj., 500mA, Reg. with ON/OFF Control*	SOT-89-5	.63	.50	.33
PQ1MX55M2SPQ	425-2677-2-ND	Adj., 500mA, Reg. with ON/OFF Control*	SOT-89-5	252.00/1,000		
PQ1R18	425-1655-1-ND	1.8V, 240mA, Reg. with ON/OFF Control	SOT-23L	.90	.65	.40
PQ1R23	425-1656-1-ND	2.3V, 240mA, Reg. with ON/OFF Control	SOT-23L	.90	.65	.40
PQ1R25	425-1657-1-ND	2.5V, 240mA, Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R25	425-1657-2-ND	2.5V, 240mA, Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R27	425-1658-1-ND	2.7V, 240mA, Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R27	425-1658-2-ND	2.7V, 240mA, Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R28	425-1659-1-ND	2.8V, 240mA, Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R28	425-1659-2-ND	2.8V, 240mA, Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R30	425-1660-1-ND	3.0V, 240mA, Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R38	425-1662-1-ND	3.8V, 240mA, Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R47	425-1664-1-ND	4.7V, 240mA, Reg. with ON/OFF Control	SOT-23L	.98	.77	.51
PQ1R47	425-1664-2-ND	4.7V, 240mA, Reg. with ON/OFF Control	SOT-23L	1820.00/5,000		
PQ1R50	425-1665-1-ND	5.0V, 240mA, Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R50	425-1665-2-ND	5.0V, 240mA, Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1T251M2ZP	425-1670-2-ND	2.5V, 400mA, Reg. with ON/OFF Control	SOT-23-5	1014.00/3,000		
PQ1T301M2ZP	425-1674-1-ND	3.0V, 400mA, Reg. with ON/OFF Control	SOT-23-5	.91	.72	.47
PQ1U251M2ZP	425-1692-1-ND	2.5V, 300mA, Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U251M2ZP	425-1692-2-ND	2.5V, 300mA, Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U281M2ZPH	425-2324-1-ND	2.8V, 300mA, Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U281M2ZPH	425-2324-2-ND	2.8V, 300mA, Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U301M2ZP	425-1696-1-ND	3.0V, 300mA, Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U351M2ZP	425-1701-1-ND	3.5V, 300mA, Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U501M2ZP	425-1708-1-ND	5.0V, 300mA, Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1LAX95MSPQ	425-2643-1-ND	Adj., 500mA, Reg. with ON/OFF Control*	SOT-89	.68	.49	.30
PQ1LAX95MSPQ	425-2643-2-ND	Adj., 500mA, Reg. with ON/OFF Control*	SOT-89	203.00/1,000		
PQ1X251M2ZP	425-1710-1-ND	2.5V, 300mA, Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X281M2ZP	425-1711-1-ND	2.8V, 300mA, Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X291M2ZP	425-1712-1-ND	2.9V, 300mA, Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X501M2ZP	425-1720-1-ND	5.0V, 300mA, Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ2L3152MSPQ	425-2644-1-ND	Adj., 250mA, Dual Output Regulator*	SOT-89	.95	.69	.42
PQ2L3152MSPQ	425-2644-2-ND	Adj., 250mA, Dual Output Regulator*	SOT-89	294.00/1,000		
PQ3DZ53	425-1729-5-ND	3.3V, 0.5A, Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ3DZ53U	425-1729-2-ND	3.3V, 0.5A, Reg. with ON/OFF Control	SC-63	1599.00/3,000		
PQ3RD13B	425-1733-5-ND	3.3V, 1.0A, Reg. with ON/OFF Control	TO-220†	1.51	1.19	.86
PQ3RD083	425-1731-5-ND	3.3V, 0.8A, Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ3TR5M3BZZ	425-1738-5-ND	3.3V, 0.5A, Reg. with Reset at 4.3V	SC-63	1.33	1.05	.76
PQ3TR5M4AZZ	425-1741-5-ND	3.3V, 0.5A, Reg. with Reset	SC-63	1.33	1.05	.76
PQ5EV3	425-1742-5-ND	Adj., 3.5A, Reg. with ON/OFF Control	TO-220	2.85	2.38	1.67
PQ5RS1A	425-1745-5-ND	5V, 0.15A, Reg. with Reset at 4.7	TO-220	1.30	1.02	.74
PQ6RD083	425-1752-5-ND	6.3V, 0.8A, Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ6RD83B	425-1753-5-ND	6.3V, 0.8A, Reg. with ON/OFF Control	TO-220†	1.44	1.13	.82
PQ7RV4	425-1757-5-ND	Adj., 4.6A, Regulator	TO-220	3.40	2.26	1.84
PQ12DZ51	425-1625-5-ND	12V, 0.5A, Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ12RA11	425-1627-5-ND	12V, 1.0A, Reg. with ON/OFF Control, 2.5%	TO-220	1.95	1.63	1.14
PQ12RD8S	425-1632-5-ND	12V, 0.8A, Reg. with ON/OFF Control	TO-220†	1.12	.88	.64
PQ12RD11	425-1629-5-ND	12V, 1.0A, Reg. with ON/OFF Control	TO-220	1.54	1.21	.88
PQ12RD1B	425-1630-5-ND	12V, 1.0A, Reg. with ON/OFF Control	TO-220†	1.75	1.38	1.00
PQ15RF15	425-1633-5-ND	15V, 1.0A, Reg. with ON/OFF Control, 5%	TO-220	1.92	1.60	1.12
PQ15RF1G	425-1635-5-ND	15V, 1.0A, Reg. with ON/OFF Control	TO-220†	2.16	1.80	1.26
PQ15RF2	425-1636-5-ND	15V, 2.0A, Reg. with ON/OFF Control	TO-220	2.25	1.88	1.32
PQ15RW08	425-1638-5-ND	Adj., 0.8A, Regulator	TO-220	1.40	1.10	.80
PQ15RW1B	425-1640-5-ND	Adj., 1.0A, Regulator	TO-220†	1.58	1.24	.90
PQ15RW21J00H	425-2292-5-ND	Adj., 2.0A, Regulator*	TO-220	1.74	1.45	1.02
PQ20RX05	425-1721-5-ND	Adj., 0.5A, Reg. with ON/OFF Control	TO-220	1.61	1.27	.92
PQ20WZ1U	425-1723-2-ND	Adj., 1.0A, Reg. with ON/OFF Control	SC-63	1599.00/3,000		
PQ25VB012FZ	425-1725-5-ND	Adj., 1.0A, Reg. with ON/OFF Control	TO-220	1.77	1.48	1.04
PQ25VB8M2FZ	425-1726-5-ND	Adj., 0.8A, Reg. with ON/OFF Control	SC-63	1.68	1.40	.98
PQ120DNA1ZPH	425-2639-1-ND	12V, 1.0A, Reg. with ON/OFF Control*	SC-63	.95	.69	.42
PQ120DNA1ZPH	425-2639-2-ND	12V, 1.0A, Reg. with ON/OFF Control*	SC-63	882.00/3,000		
PQ120RDA1SZH	425-2692-5-ND	12V, 1.0A, Reg. with ON/OFF Control*	TO-220	.95	.75	.54
PQ120RDA2SZH	425-2640-5-ND	12V, 2.0A, Reg. with ON/OFF Control*	TO-220	.74	.58	.42
PQ200WNA1ZPH	425-2678-1-ND	Adj., 1.0A, Reg. with ON/OFF Control*	SC-63	.95	.75	.49
PQ200WNA1ZPH	425-2678-2-ND	Adj., 1.0A, Reg. with ON/OFF Control*	SC-63	1053.00/3,000		

† Lead Form

SHARP MICROELECTRONICS OF THE AMERICAS CHOPPER REGULATORS

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PQ1CG21H2FZ	425-1761-5-ND	Adj., 1.5A, Chopper Reg. with ON/OFF Control	TO-220	2.04	1.70	1.19
PQ1CG21H2RZ	425-1762-5-ND	Adj., 1.5A, Chopper Reg. with ON/OFF Control	TO-220	1.92	1.60	1.12
PQ1CG38M2FZ	425-1765-5-ND	Adj., 0.8A, Chopper Reg. with ON/OFF Control	TO-220	1.65	1.38	.97
PQ1CG38M2RZ	425-1766-5-ND	Adj., 0.8A, Chopper Reg. with ON/OFF Control	TO-220	1.65	1.38	.97
PQ1CG41H2RZH	425-2691-5-ND	Adj., 1.5A, Chopper Reg. with ON/OFF Control*	TO-220	1.33	.88	.72
PQ1CG2032FZ	425-1759-5-ND	Adj., 3.5A, Chopper Reg. with ON/OFF Control	TO-220	2.28	1.90	1.33
PQ1CG2032FZH	425-2293-5-ND	Adj., 3.5A, Chopper Reg. with ON/OFF Control*	TO-220	2.28	1.90	1.33
PQ1CG2032RZ	425-1760-5-ND	Adj., 3.5A, Chopper Reg. with ON/OFF Control	TO-220	2.28	1.90	1.33
PQ1CG3032RZ	425-1764-5-ND	Adj., 3.5A, Chopper Reg. with ON/OFF Control	TO-220	2.28	1.90	1.33
PQ1CY1032ZPH	425-2641-1-ND	Adj., 3.5A, Chopper Reg. with ON/OFF Control*	TO-263	2.94	2.31	1.52

*** RoHS Compliant**

(Continued)

SHARP MICROELECTRONICS OF THE AMERICAS — CHOPPER REGULATORS *(Continued)*

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PQ1CY1032ZPH	425-2641-2-ND	Adj., 3.5A, Chopper Reg. with ON/OFF Control*	TO-263	1092.00/1,000		
PQ1CY1032ZZ	425-1767-5-ND	Adj., 3.5A, Chopper Reg. with ON/OFF Control	TO-263	2.52	2.10	1.47
PQ1CZ21H2ZPH	425-2663-1-ND	Adj., 1.5A, Chopper Reg. with ON/OFF Control*	SC-63	2.70	2.12	1.39
PQ1CZ21H2ZPH	425-2663-2-ND	Adj., 1.5A, Chopper Reg. with ON/OFF Control*	SC-63	3003.00/3,000		
PQ1CZ38M2ZZ	425-1769-5-ND	Adj., 0.8A, Chopper Reg. with ON/OFF Control	SC-63	1.72	1.35	.98
PQ1CZ41H2ZPH	425-2642-1-ND	Adj., 1.5A, Chopper Reg. with ON/OFF Control*	SC-63	1.86	1.46	.96
PQ1CZ41H2ZPH	425-2642-2-ND	Adj., 1.5A, Chopper Reg. with ON/OFF Control*	SC-63	2067.00/3,000		
PQ6CU11X1APQ	425-2646-1-ND	Adj., 250mA CMOS Step-Up Chopper Regulator*	SOT-23-6	1.86	1.46	.96
PQ6CU11X1APQ	425-2646-2-ND	Adj., 250mA CMOS Step-Up Chopper Regulator*	SOT-23-6	2067.00/3,000		

SHARP MICROELECTRONICS OF THE AMERICAS — DigiReel® — LED DRIVERS

RoHS Compliant

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IR2D07	425-2711-5-ND	16-Bit LED Panel Driver ***NEW!***	28-SDip	2.43	2.03	1.42
IR2D20U	425-2712-ND	Constant Current LED Driver ***NEW!***	52-HQFN	3.08	2.05	1.67
IR2E46Y6	425-2707-1-ND	Illumination/Flash RGB-LED Driver ***NEW!***	33-WLCSP	3.75	2.95	1.93
IR2E46Y6	425-2707-2-ND	Illumination/Flash RGB-LED Driver ***NEW!***	33-WLCSP	2782.00/2,000		
IR2E49U6	425-2708-1-ND	Current Driver IC for LED ***NEW!***	36-VQFN	6.58	5.17	3.39
IR2E49U6	425-2708-2-ND	Current Driver IC for LED ***NEW!***	36-VQFN	4888.00/2,000		
IR2E51Y6	425-2709-1-ND	White-LED Driver IC for LCD Backlight ***NEW!***	35-WLCSP	4.90	3.85	2.52
IR2E51Y6	425-2709-2-ND	White-LED Driver IC for LCD Backlight ***NEW!***	35-WLCSP	3640.00/2,000		
IR2E53Y6	425-2710-1-ND	6 Segment LED Driver IC ***NEW!***	35-WLCSP	4.90	3.85	2.52
IR2E53Y6	425-2710-2-ND	6 Segment LED Driver IC ***NEW!***	35-WLCSP	3640.00/2,000		
PQ6CB11X1CP	425-2645-1-ND	250mA Compact SMD CMOS Step-Up LED Driver	USB-6	1.82	1.43	.94
PQ6CB11X1CP	425-2645-2-ND	250mA Compact SMD CMOS Step-Up LED Driver	USB-6	1560.00/3,000		

ROHM — DigiReel® — INTEGRATED CIRCUITS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BA00BC0WT-ND	Adj., 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA00CC0WT-ND	Adj., 1A LDO Voltage Regulator	TO-220FP-5	1.33	1.06	.80
BA03CC0T-ND	3V, 1A LDO Voltage Regulator	TO-220FP	1.41	1.18	.94
BA03CC0WT-ND	3V, 1A LDO Voltage Regulator with Shutdown	TO-220-FP-5	1.44	1.20	.96
BA05CC0T-ND	5V, 1A LDO Voltage Regulator	TO-220FP	1.41	1.18	.94
BA05CC0WT-ND	5V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BA07CC0T-ND	7V, 1A LDO Voltage Regulator	TO-220FP	1.41	1.18	.94
BA07CC0WT-ND	7V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BA08CC0T-ND	8V, 1A LDO Voltage Regulator	TO-220FP-5	1.41	1.18	.94
BA08CC0WT-ND	8V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BA09CC0T-ND	9V, 1A LDO Voltage Regulator	TO-220FP	1.41	1.18	.94
BA09CC0WT-ND	9V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BA15BC0T-ND	1.5V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA15BC0WT-ND	1.5V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA18BC0T-ND	1.8V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA18BC0WT-ND	1.8V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA25BC0T-ND	2.5V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA25BC0WT-ND	2.5V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA30BC0T-ND	3V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA30BC0WT-ND	3V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA33BC0T-ND	3.3V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA33BC0WT-ND	3.3V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA50BC0T-ND	5V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA50BC0WT-ND	5V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA60BC0T-ND	6V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA60BC0WT-ND	6V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA70BC0T-ND	7V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA70BC0WT-ND	7V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA80BC0T-ND	8V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA80BC0WT-ND	8V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA90BC0T-ND	9V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA90BC0WT-ND	9V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA028LBSG2-CT-ND	2.8V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA028LBSG2-TR-ND	2.8V, 150mA Low Saturation Regulator	5-SMP	780.00/3,000		
BA029LBSG2-CT-ND	2.9V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA029LBSG2-TR-ND	2.9V, 150mA Low Saturation Regulator	5-SMP	780.00/3,000		
BA030LBSG2-CT-ND	3V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA030LBSG2-TR-ND	3V, 150mA Low Saturation Regulator	5-SMP	780.00/3,000		
BA032LBSG2-CT-ND	3.2V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA032LBSG2-TR-ND	3.2V, 150mA Low Saturation Regulator	5-SMP	780.00/3,000		
BA033CC0T-ND	3.3V, 1A Low Saturation Regulator	TO-220FP	1.41	1.18	.94
BA033CC0WT-ND	3.3V, 1A Low Saturation Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BA033LBSG2-CT-ND	3.3V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA033LBSG2-TR-ND	3.3V, 150mA Low Saturation Regulator	5-SMP	780.00/3,000		
BA036LBSG2-CT-ND	3.6V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA036LBSG2-TR-ND	3.6V, 150mA Low Saturation Regulator	5-SMP	780.00/3,000		
BA038LBSG2-CT-ND	3.8V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA038LBSG2-TR-ND	3.8V, 150mA Low Saturation Regulator	5-SMP	780.00/3,000		
BA040LBSG2-CT-ND	4V, 150mA Low Saturation Regulator	5-SMP	.75	.63	.50
BA040LBSG2-TR-ND	4V, 150mA Low Saturation Regulator	5-SMP	975.00/3,000		
BA050LBSG2-CT-ND	5V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA050LBSG2-TR-ND	5V, 150mA Low Saturation Regulator	5-SMP	780.00/3,000		
BA178M05T-ND	5V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M06T-ND	6V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M07T-ND	7V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M08T-ND	8V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M09T-ND	9V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M10T-ND	10V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M12T-ND	12V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M15T-ND	15V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M18T-ND	18V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M20T-ND	20V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M24T-ND	24V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA823F-E2CT-ND	8-Bit Serial In/Parallel Out Driver	16-SOP	1.40	1.12	.84
BA823F-E2TR-ND	8-Bit Serial In/Parallel Out Driver	16-SOP	1792.50/2,500		
BA829-ND	8-Bit Serial In/Parallel Out Driver	18-Dip	2.33	1.86	1.40
BA2901F-E2CT-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	14-SOP	.60	.45	.34
BA2901F-E2TR-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	14-SOP	487.50/2,500		
BA2901FV-E2CT-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	B14-SSOP	.60	.45	.34
BA2901FV-E2TR-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	B14-SSOP	487.50/2,500		
BA2901KN-E2CT-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	16-VQFN	.90	.75	.60
BA2901KN-E2TR-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	16-VQFN	975.00/2,500		
BA2902F-E2CT-ND	32V, 0.7mA Ground Sense Quad Op Amp	14-SOP	.64	.48	.36
BA2902F-E2TR-ND	32V, 0.7mA Ground Sense Quad Op Amp	14-SOP	520.00/2,500		
BA2902FV-E2CT-ND	32V, 0.7mA Ground Sense Quad Op Amp	B14-SSOP	.64	.48	.36
BA2902FV-E2TR-ND	32V, 0.7mA Ground Sense Quad Op Amp	B14-SSOP	520.00/2,500		
BA2902KN-E2CT-ND	32V, 0.7mA Ground Sense Quad Op Amp	16-VQFN	.90	.75	.60
BA2902KN-E2TR-ND	32V, 0.7mA Ground Sense Quad Op Amp	16-VQFN	975.00/2,500		
BA2903F-E2CT-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	8-SOP	.48	.36	.27
BA2903F-E2TR-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	8-SOP	390.00/2,500		
BA2903FV-E2CT-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	B8-SSOP	.56	.42	.32
BA2903FV-E2TR-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	B8-SSOP	455.00/2,500		
BA2903FVM-CT-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	8-MSOP	.56	.42	.32
BA2903FVM-TR-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	8-MSOP	546.00/3,000		
BA2904F-E2CT-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-SOP	.48	.36	.27
BA2904F-E2TR-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-SOP	390.00/2,500		
BA2904FV-E2CT-ND	32V, 0.7mA Ground Sense Dual Op Amp	B8-SSOP	.56	.42	.32
BA2904FV-E2TR-ND	32V, 0.7mA Ground Sense Dual Op Amp	B8-SSOP	455.00/2,500		
BA2904FVM-CT-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-MSOP	.56	.42	.32
BA2904FVM-TR-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-MSOP	546.00/3,000		
BA3121F-E2CT-ND	Ground Isolation Amp for Car Audio System	8-SOP	1.32	1.10	.88
BA3121F-E2TR-ND	Ground Isolation Amp for Car Audio System	8-SOP	1430.00/2,500		
BA4558F-E2CT-ND	36V, Dual Op Amp	8-SOP	.55	.44	.33
BA4558F-E2TR-ND	36V, Dual Op Amp	8-SOP	372.50/2,500		
BA4558RF-E2CT-ND	36V, 3mA Low Noise Dual Op Amp	8-SOP	.50	.40	.30
BA4558RF-E2TR-ND	36V, 3mA Low Noise Dual Op Amp	8-SOP	337.50/2,500		
BA4558RFV-E2CT-ND	36V, 3mA Low Noise Dual Op Amp	B8-SSOP	.50	.40	.30
BA4558RFV-E2TR-ND	36V, 3mA Low Noise Dual Op Amp	B8-SSOP	337.50/2,500		
BA4558RFVM-CT-ND	36V, 3mA Low Noise Dual Op Amp	8-MSOP	.50	.40	.30
BA4558RFVM-TR-ND	36V, 3mA Low Noise Dual Op Amp	8-MSOP	405.00/3,000		
BA4560-ND	36V, Dual High Slew Rate Op Amp	8-Dip	.50	.40	.30
BA4560F-E2CT-ND	36V, Dual High Slew Rate Op Amp	8-SOP	.50	.40	.30
BA4560F-E2TR-ND	36V, Dual High Slew Rate Op Amp	8-SOP	337.50/2,500		
BA4560RF-E2CT-ND	36V, 3mA Low Noise Dual Op Amp	8-SOP	.50	.40	.30
BA4560RF-E2TR-ND	36V, 3mA Low Noise Dual Op Amp	8-SOP	337.50/2,500		
BA4560RFV-E2CT-ND	36V, 3mA Low Noise Dual Op Amp	B8-SSOP	.50	.40	.30
BA4560RFV-E2TR-ND	36V, 3mA Low Noise Dual Op Amp	B8-SSOP	337.50/2,500		
BA4560RFVM-CT-ND	36V, 3mA Low Noise Dual Op Amp	8-MSOP	.50	.40	.30
BA4560RFVM-TR-ND	36V, 3mA Low Noise Dual Op Amp	8-MSOP	405.00/3,000		
BA6219BFP-YE2CT-ND	Motor Driver with DC Brush	25-HSOP	1.80	1.44	1.08
BA6219BFP-YE2TR-ND	Motor Driver with DC Brush	25-HSOP	1872.00/2,000		
BA6285AFP-YE2CT-ND	Reversible Motor Driver	25-HSOP	1.50	1.20	.90
BA6285AFP-YE2TR-ND	Reversible Motor Driver	25-HSOP	1560.00/2,000		
BA6287F-E2CT-ND	Reversible Motor Driver	8-SOP	1.41	1.18	.94
BA6287F-E2TR-ND	Reversible Motor Driver	8-SOP	1527.50/2,500		
BA6845FS-E2CT-ND	Stepping Motor Driver	A16-SSOP	1.44	1.20	.96
BA6845FS-E2TR-ND	Stepping Motor Driver	A16-SSOP	1560.00/2,000		
BA6920FP-YE2CT-ND	Motor Driver with DC Brush	25-HSOP	1.85	1.48	1.11
BA6920FP-YE2TR-ND	Motor Driver with DC Brush	25-HSOP	1924.00/2,000		
BA7046F-E2CT-ND	Synchronous Separator with AFC	8-SOP	1.17	.98	.78
BA7046F-E2TR-ND	Synchronous Separator with AFC	8-SOP	1267.50/2,500		
BA7071F-E2CT-ND	Synchronous Separator with AFC	8-SOP	1.90	1.52	1.14
BA7071F-E2TR-ND	Synchronous Separator with AFC	8-SOP	2432.50/2,500		
BA9743AFV-E2CT-ND	2-Channel Switching Regulator Controller	B16-SSOP	1.70	1.36	1.02
BA9743AFV-E2TR-ND	2-Channel Switching Regulator Controller	B16-SSOP	2175.00/2,500		
BA9744FV-E2CT-ND	2-Channel Switching Regulator Controller	B16-SSOP	2.03	1.62	1.22
BA9744FV-E2TR-ND	2-Channel Switching Regulator Controller	B16-SSOP	2592.50/2,500		
BA10358F-E2CT-ND	32V, Dual Ground Sense Op Amp	8-SOP	.50	.40	.30
BA10358F-E2TR-ND	32V, Dual Ground Sense Op Amp	8-SOP	337.50/2,500		
BA10393F-E2CT-ND	Dual Comparator	8-SOP	.45	.36	.27
BA10393F-E2TR-ND	Dual Comparator	8-SOP	305.00/2,500		
BA17805T-ND	5V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17806T-ND	6V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17807T-ND	7V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17808T-ND	8V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17809T-ND	9V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17810T-ND	10V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17812T-ND	12V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17815T-ND	15V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17818T-ND	18V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17820T-ND	20V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17824T-ND	24V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BAJ0BC0T-ND	10V, 1A Low Dropout Voltage Regulator	TO-220FP	1.02	.85	.68
BAJ0BC0WT-ND	10V, 1A Low Dropout Voltage Regulator with Shutdown	TO-220FP-5	1.26	1.05	.84
BAJ0CC0T-ND	10V, 1A Low Dropout Voltage Regulator	TO-220FP	1.41	1.18	.94
BAJ0CC0WT-F-ND	10V, 1A Low Dropout Voltage Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BAJ2CC0T-ND	12V, 1A Low Dropout Voltage Regulator	TO-220FP	1.41	1.18	.94
BAJ2CC0WT-ND	12V, 1A Low Dropout Voltage Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BAJ5CC0T-ND	15V, 1A Low Dropout Voltage Regulator	TO-220FP	1.41	1.18	.94
BD00KA5WF-E2CT-ND	500mA, Low Dropout Regulator with Shutdown	8-SOP	.96	.72	.54
BD00KA5WF-E2TR-ND	500mA, Low Dropout Regulator with Shutdown	8-SOP	780.00/2,500		
BD33KA5WF-E2CT-ND	3.3V, 500mA Low Dropout Regulator with Shutdown	8-SOP	.96	.72	.54
BD33KA5WF-E2TR-ND	3.3V, 500mA Low Dropout Regulator with Shutdown	8-SOP	780.00/2,500		
BD4823FVE-CT-ND	2.3V, Voltage Detector	5-VSOF	.50	.38	.29

***** *RoHS Compliant*

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BD4823FVE-TR-ND	2.3V, Voltage Detector	5-VSOF	489.00/3,000		
BD4832FVE-CT-ND	3.2V, Voltage Detector	5-VSOF	.50	.38	.29
BD4832FVE-TR-ND	3.2V, Voltage Detector	5-VSOF	489.00/3,000		
BD4842FVE-CT-ND	4.2V, Voltage Detector	5-VSOF	.50	.38	.29
BD4842FVE-TR-ND	4.2V, Voltage Detector	5-VSOF	489.00/3,000		
BD4923FVE-CT-ND	2.3V, Voltage Detector	5-VSOF	.52	.39	.30
BD4923FVE-TR-ND	2.3V, Voltage Detector	5-VSOF	507.00/3,000		
BD4928G-CT-ND	2.8V, Voltage Detector	5-SSOP	.52	.39	.30
BD4928G-TR-ND	2.8V, Voltage Detector	5-SSOP	507.00/3,000		
BD4937FVE-CT-ND	3.7V, Voltage Detector	5-VSOF	.50	.38	.29
BD4937FVE-TR-ND	3.7V, Voltage Detector	5-VSOF	489.00/3,000		
BD4942G-CT-ND	4.2V, Voltage Detector	5-SSOP	.52	.39	.30
BD4942G-TR-ND	4.2V, Voltage Detector	5-SSOP	507.00/3,000		
BD5223G-CT-ND	2.3V, Voltage Detector with Adj. Output Delay	5-SSOP	.52	.39	.30
BD5223G-TR-ND	2.3V, Voltage Detector with Adj. Output Delay	5-SSOP	507.00/3,000		
BD5232G-CT-ND	3.2V, Voltage Detector with Adj. Output Delay	5-SSOP	.52	.39	.30
BD5232G-TR-ND	3.2V, Voltage Detector with Adj. Output Delay	5-SSOP	507.00/3,000		
BD5242G-CT-ND	4.2V, Voltage Detector with Adj. Output Delay	5-SSOP	.52	.39	.30
BD5242G-TR-ND	4.2V, Voltage Detector with Adj. Output Delay	5-SSOP	507.00/3,000		
BD5323G-CT-ND	2.3V, Voltage Detector with Adj. Output Delay	5-SSOP	.52	.39	.30
BD5323G-TR-ND	2.3V, Voltage Detector with Adj. Output Delay	5-SSOP	507.00/3,000		
BD5332G-CT-ND	3.2V, Voltage Detector with Adj. Output Delay	5-SSOP	.52	.39	.30
BD5332G-TR-ND	3.2V, Voltage Detector with Adj. Output Delay	5-SSOP	507.00/3,000		
BD5342G-CT-ND	4.2V, Voltage Detector with Adj. Output Delay	5-SSOP	.52	.39	.30
BD5342G-TR-ND	4.2V, Voltage Detector with Adj. Output Delay	5-SSOP	507.00/3,000		
BD6211F-E2CT-ND	1-Channel, 1A H-Bridge Driver for Brush Motor	8-SOP	1.35	1.08	.81
BD6211F-E2TR-ND	1-Channel, 1A H-Bridge Driver for Brush Motor	8-SOP	1727.50/2,500		
BD6212FP-E2CT-ND	1-Channel, 2A H-Bridge Driver for Brush Motor	25-HSOP	2.33	1.86	1.40
BD6212FP-E2TR-ND	1-Channel, 2A H-Bridge Driver for Brush Motor	25-HSOP	2418.00/2,000		
BD6220F-E2CT-ND	1-Channel, 0.5A H-Bridge Driver for Brush Motor	8-SOP	1.93	1.54	1.16
BD6220F-E2TR-ND	1-Channel, 0.5A H-Bridge Driver for Brush Motor	8-SOP	2465.00/2,500		
BD6221F-E2CT-ND	1-Channel, 1A H-Bridge Driver for Brush Motor	8-SOP	1.50	1.20	.90
BD6221F-E2TR-ND	1-Channel, 1A H-Bridge Driver for Brush Motor	8-SOP	1920.00/2,500		
BD6222FP-E2CT-ND	1-Channel, 2A H-Bridge Driver for Brush Motor	25-HSOP	2.38	1.90	1.43
BD6222FP-E2TR-ND	1-Channel, 2A H-Bridge Driver for Brush Motor	25-HSOP	2470.00/2,000		
BD6231F-E2CT-ND	1-Channel, 1A H-Bridge Driver for Brush Motor	8-SOP	2.38	1.90	1.43
BD6231F-E2TR-ND	1-Channel, 1A H-Bridge Driver for Brush Motor	8-SOP	3040.00/2,500		
BD6232FP-E2CT-ND	1-Channel, 2A H-Bridge Driver for Brush Motor	25-HSOP	3.15	2.52	1.96
BD6232FP-E2TR-ND	1-Channel, 2A H-Bridge Driver for Brush Motor	25-HSOP	3570.00/2,000		
BD6775EFV-E2CT-ND	Bipolar Stepping Motor Driver	B24-HTSSOP	2.18	1.74	1.31
BD6775EFV-E2TR-ND	Bipolar Stepping Motor Driver	B24-HTSSOP	2262.00/2,000		
BD7851FP-E2CT-ND	LED Driver IC with Built-In 16-Bit Shift Register	25-HSOP	2.03	1.62	1.22
BD7851FP-E2TR-ND	LED Driver IC with Built-In 16-Bit Shift Register	25-HSOP	2106.00/2,000		
BD9302FP-E2CT-ND	2-Channel Step-Down Switching Regulator	25-HSOP	4.05	3.24	2.52
BD9302FP-E2TR-ND	2-Channel Step-Down Switching Regulator	25-HSOP	4590.00/2,000		
BD9701T-ND	1.5A, 1-Channel Step-Down Switching Regulator	TO-220FP-5	2.08	1.66	1.25
BD9702T-ND	3A, 1-Channel Step-Down Switching Regulator	TO-220FP-5	2.25	1.80	1.40
BD9778F-E2CT-ND	Flexible Step-Down Switching Regulator	8-SOP	2.41	1.93	1.50
BD9778F-E2TR-ND	Flexible Step-Down Switching Regulator	8-SOP	3370.00/2,500		
BD9778HFP-CT-ND	Flexible Step-Down Switching Regulator	7-HRP	2.70	2.16	1.68
BD9778HFP-TR-ND	Flexible Step-Down Switching Regulator	7-HRP	3060.00/2,000		
BD9781HFP-CT-ND	Flexible Step-Down Switching Regulator	7-HRP	3.94	3.15	2.45
BD9781HFP-TR-ND	Flexible Step-Down Switching Regulator	7-HRP	4462.00/2,000		
BD9851EFV-E2CT-ND	2-Channel Switching Regulator Controller	B20-HTSSOP	2.41	1.93	1.50
BD9851EFV-E2TR-ND	2-Channel Switching Regulator Controller	B20-HTSSOP	3370.00/2,500		
BD9870FPS-E2CT-ND	1-Channel, 900kHz, Step-Down Switching Reg. ***NEW!***	TO-252S-5	1.50	1.20	.90
BD9870FPS-E2TR-ND	1-Channel, 900kHz, Step-Down Switching Reg. ***NEW!***	TO-252S-5	1560.00/2,000		
BD45231G-CT-ND	2.3V, Voltage Detector IC Built in Delay Circuit	5-SSOP	.76	.57	.43
BD45231G-TR-ND	2.3V, Voltage Detector IC Built in Delay Circuit	5-SSOP	741.00/3,000		
BD45421G-CT-ND	4.2V, Voltage Detector IC Built in Delay Circuit	5-SSOP	.76	.57	.43
BD45421G-TR-ND	4.2V, Voltage Detector IC Built in Delay Circuit	5-SSOP	741.00/3,000		
BD46321G-CT-ND	3.2V, Voltage Detector IC Built in Delay Circuit	5-SSOP	.76	.57	.43
BD46321G-TR-ND	3.2V, Voltage Detector IC Built in Delay Circuit	5-SSOP	741.00/3,000		
BH1JLB1WHFV-CT-ND	1.85V, Low Dropout Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH1JLB1WHFV-TR-ND	1.85V, Low Dropout Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH2JNB1WHFV-CT-ND	2.85V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH2JNB1WHFV-TR-ND	2.85V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH15LB1WG-CT-ND	1.5V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH15LB1WG-TR-ND	1.5V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH15LB1WHFV-CT-ND	1.5V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH15LB1WHFV-TR-ND	1.5V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH15MA3WHFV-CT-ND	1.5V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH15MA3WHFV-TR-ND	1.5V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH18LB1WG-CT-ND	1.8V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH18LB1WG-TR-ND	1.8V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH18LB1WHFV-CT-ND	1.8V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH18LB1WHFV-TR-ND	1.8V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH18MA3WHFV-CT-ND	1.8V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH18MA3WHFV-TR-ND	1.8V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH25FB1WG-CT-ND	2.5V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH25FB1WG-TR-ND	2.5V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH25FB1WHFV-CT-ND	2.5V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH25FB1WHFV-TR-ND	2.5V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH25MA3WHFV-CT-ND	2.5V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH25MA3WHFV-TR-ND	2.5V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH25NB1WHFV-CT-ND	2.5V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH25NB1WHFV-TR-ND	2.5V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH28FB1WG-CT-ND	2.8V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH28FB1WG-TR-ND	2.8V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH28FB1WHFV-CT-ND	2.8V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH28FB1WHFV-TR-ND	2.8V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH28MA3WHFV-CT-ND	2.8V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH28MA3WHFV-TR-ND	2.8V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH28NB1WHFV-CT-ND	2.8V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH28NB1WHFV-TR-ND	2.8V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH29FB1WG-CT-ND	2.9V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH29FB1WG-TR-ND	2.9V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH29FB1WHFV-CT-ND	2.9V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH29FB1WHFV-TR-ND	2.9V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH29MA3WHFV-CT-ND	2.9V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH29MA3WHFV-TR-ND	2.9V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH29NB1WHFV-CT-ND	2.9V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH29NB1WHFV-TR-ND	2.9V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH30FB1WG-CT-ND	3V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH30FB1WG-TR-ND	3V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH30FB1WHFV-CT-ND	3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH30FB1WHFV-TR-ND	3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH30MA3WHFV-CT-ND	3V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH30MA3WHFV-TR-ND	3V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH30NB1WHFV-CT-ND	3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH30NB1WHFV-TR-ND	3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH31FB1WG-CT-ND	3.1V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH31FB1WG-TR-ND	3.1V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH31FB1WHFV-CT-ND	3.1V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH31FB1WHFV-TR-ND	3.1V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH31MA3WHFV-CT-ND	3.1V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH31MA3WHFV-TR-ND	3.1V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH31NB1WHFV-CT-ND	3.1V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH31NB1WHFV-TR-ND	3.1V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH33FB1WG-CT-ND	3.3V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH33FB1WG-TR-ND	3.3V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH33FB1WHFV-CT-ND	3.3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH33FB1WHFV-TR-ND	3.3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH33MA3WHFV-CT-ND	3.3V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH33MA3WHFV-TR-ND	3.3V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH33NB1WHFV-CT-ND	3.3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH33NB1WHFV-TR-ND	3.3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH1406KV-E2CT-ND	FM Radio One-Chip LSI	48-VQFP	4.39	3.51	2.73
BH1406KV-E2TR-ND	FM Radio One-Chip LSI	48-VQFP	3729.00/1,500		
BH1414K-E2CT-ND	FM Stereo Transmitter IC	44-QFP	7.14	5.72	4.82
BH1414K-E2TR-ND	FM Stereo Transmitter IC	44-QFP	4463.00/1,000		
BH1415F-E2CT-ND	FM Stereo Transmitter IC	22-SOP	3.76	3.01	2.34
BH1415F-E2TR-ND	FM Stereo Transmitter IC	22-SOP	4258.00/2,000		
BH1417F-E2CT-ND	FM Stereo Transmitter IC	22-SOP	3.92	3.14	2.44
BH1417F-E2TR-ND	FM Stereo Transmitter IC	22-SOP	4438.00/2,000		
BH1418FV-E2CT-ND	FM Stereo Transmitter IC	24-SSOP	3.92	3.14	2.44
BH1418FV-E2TR-ND	FM Stereo Transmitter IC	24-SSOP	4438.00/2,000		
BH1418KN-E2CT-ND	FM Stereo Transmitter IC for Audio Systems	28-VQFN	3.92	3.14	2.44
BH1418KN-E2TR-ND	FM Stereo Transmitter IC for Audio Systems	28-VQFN	5480.00/2,500		
BH1425GWL-E2CT-ND	Wireless Audio Link LSI for Mobile Phone	UCSP50L3	4.05	3.24	2.52
BH1425GWL-E2TR-ND	Wireless Audio Link LSI for Mobile Phone	UCSP50L3	5670.00/2,500		
BH1425KN-E2CT-ND	Wireless Audio Link LSI for Mobile Phone	28-VQFN	3.94	3.15	2.45
BH1425KN-E2TR-ND	Wireless Audio Link LSI for Mobile Phone	28-VQFN	5512.50/2,500		
BH1426GWL-E2CT-ND	Wireless Audio Link LSI for Mobile Phone	UCSP50L3	4.95	3.96	3.08
BH1426GWL-E2TR-ND	Wireless Audio Link LSI for Mobile Phone	UCSP50L3	6930.00/2,500		
BH1426KN-E2CT-ND	Wireless Audio Link LSI for Mobile Phone	28-VQFN	4.95	3.96	3.08
BH1426KN-E2TR-ND	Wireless Audio Link LSI for Mobile Phone	28-VQFN	6930.00/2,500		
BH1427GUL-E2CT-ND	Wireless Audio Link LSI for Mobile Phone	VCSP50L3	3.71	2.97	2.31
BH1427GUL-E2TR-ND	Wireless Audio Link LSI for Mobile Phone	VCSP50L3	5197.50/2,500		
BH2219FVM-CT-ND	8-Bit, 2-Channel D/A Converter	8-MSOP	1.45	1.16	.87
BH2219FVM-TR-ND	8-Bit, 2-Channel D/A Converter	8-MSOP	2226.00/3,000		
BH2220FVM-CT-ND	8-Bit, 3-Channel D/A Converter	8-MSOP	1.45	1.16	.87
BH2220FVM-TR-ND	8-Bit, 3-Channel D/A Converter	8-MSOP	2226.00/3,000		
BH2221FV-E2-CT-ND	8-Bit, 12-Channel D/A Converter	B20-SSOP	2.43	1.95	1.52
BH2221FV-E2-TR-ND	8-Bit, 12-Channel D/A Converter	B20-SSOP	3402.50/2,500		
BH2223FV-E2-CT-ND	8-Bit, 10-Channel D/A Converter	B16-SSOP	2.25	1.80	1.35
BH2223FV-E2-TR-ND	8-Bit, 10-Channel D/A Converter	B16-SSOP	2880.00/2,500		
BH2226FV-FE2CT-ND	8-Bit, 8-Channel D/A Converter	B16-SSOP	2.59	2.07	1.61
BH2226FV-FE2TR-ND	8-Bit, 8-Channel D/A Converter	B16-SSOP	3622.50/2,500		
BH2227FV-E2CT-ND	8-Bit, 4-Channel D/A Converter	B14-SSOP	1.32	1.10	.88
BH2227FV-E2TR-ND	8-Bit, 4-Channel D/A Converter	B14-SSOP	1430.00/2,500		
BH2228FV-E2CT-ND	8-Bit, 6-Channel D/A Converter	B14-SSOP	1.88	1.50	1.13
BH2228FV-E2TR-ND	8-Bit, 6-Channel D/A Converter	B14-SSOP	2400.00/2,500		
BH4127FV-E2CT-ND	IF Detector for 900MHz Spread Spectrum Cordless Phone	B16-SSOP	1.63	1.30	.98
BH4127FV-E2TR-ND	IF Detector for 900MHz Spread Spectrum Cordless Phone	B16-SSOP	2080.00/3,000		
BH7824FVM-FCT-ND	Audio Driver for Mobile Telephone	8-MSOP	1.20	1.00	.80
BH7824FVM-FTR-ND	Audio Driver for Mobile Telephone	8-MSOP	1560.00/3,000		
BH7826FVM-CT-ND	Audio Driver for Mobile Telephone	8-MSOP	1.32	1.10	.88
BH7826FVM-TR-ND	Audio Driver for Mobile Telephone	8-MSOP	1716.00/3,000		
BP5029-ND	5V, 300mA DC/DC Converter	6-SIP	3.24	2.60	2.02
BP5034B20-ND	20V, 80mA AC/DC Converter	10-SIP	3.15	2.52	1.96
BP5034D5-ND	5V, 100mA AC/DC Converter	10-SIP	3.83	3.06	2.38
BP5034D12-ND	12V, 100mA AC/DC Converter	10-SIP	3.15	2.52	1.96
BP5034D15-ND	15V, 80mA AC/DC Converter	10-SIP	3.83	3.06	2.38
BP5034D24-ND	24V, 50mA AC/DC Converter	10-SIP	4.46	3.57	2.78
BP5035A5-ND	-5V, 200mA AC/DC Converter	10-SIP	5.12	4.10	3.46
BP5035A12-ND	-12V, 200mA AC/DC Converter	10-SIP	4.16	3.33	2.59
BP5037B12-ND	12V, 200mA AC/DC Converter	10-SIP	3.15	2.52	1.96
BP5037B15-ND	15V, 170mA AC/DC Converter	10-SIP	3.15	2.52	1.96
BP5038A-ND	12V, 30mA AC/DC Converter	6-SIP	5.06	4.05	3.15
BP5038A1-ND	5V, 30mA AC/DC Converter	6-SIP	5.06	4.05	3.15
BP5039-15-ND	15V, 200mA AC/DC Converter	12-SIP	4.23	3.39	2.64
BP5039B12-ND	12V, 300mA AC/DC Converter	12-SIP	3.98	3.19	2.48
BP5041A-ND	12V, 100mA AC/DC Converter	10-SIP	5.14	4.12	3.47
BP5041A5-ND	5V, 100mA AC/DC Converter	10-SIP	5.14	4.12	3.47
BP5045A-ND	-12V, 200mA AC/DC Converter	10-SIP	4.50	3.60	2.80
BP5047A24-ND	24V, 150mA AC/DC Converter	12-SIP	5.36	4.29	3.34
BP5048-ND	12V, 300mA AC/DC Converter	12-SIP	4.50	3.60	2.80
BP5048-15-ND	15V, 200mA AC/DC Converter	12-SIP	4.68	3.75	2.92
BP5048-24-ND	24V, 200mA AC/DC Converter	12-SIP	5.14	4.12	3.47
BP5061-ND	-12V, 300mA AC/DC Converter	12-SIP	5.09	4.07	3.17
BP5061-5-ND	-5V, 350mA AC/DC Converter	12-SIP	4.91	3.93	3.06
BP5062A-ND	-12V, 500mA AC/DC Converter	12-SIP	5.70	4.56	3.85
BP5062A5-ND	-5V, 500mA AC/DC Converter	12-SIP	5.54	4.43	3.45
BP5063-5-ND	5V, 200mA AC/DC Converter	10-SIP	6.72	5.38	4.54
BP5065C-ND	-12V, 90mA AC/DC Converter	9-SIP	4.95	3.96	3.08
BP5065C5-ND	-5V, 100mA AC/DC Converter	9-SIP	3.47	2.78	2.16
BP5067-12-ND	12V, 350mA AC/DC Converter	12-SIP	5.29	4.23	3.29
BP5067-15-ND	15V, 300mA AC/DC Converter	12-SIP	5.24	4.20	3.27
BP5068A-ND	-12V, 800mA AC/DC Converter	12-SIP	6.08	4.87	4.11

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
BP5068A24-ND	-24V, 600mA AC/DC Converter	12-SIP	5.70	4.56	3.85
BP5081A15-ND	15V/5V, 80mA/350mA, Dual AC/DC Converter	14-SIP	6.32	5.06	4.27
BP5085-15-ND	15V/5V, 80mA/350mA, Dual AC/DC Converter	16-SIP	8.00	6.40	5.40
BP5220A-ND	5V, 1A DC/DC Converter	9-SIP	5.18	4.15	3.50
BP5221A-ND	5V, 0.5A DC/DC Converter	9-SIP	5.09	4.07	3.17
BP5222A-ND	12V, 500mA DC/DC Converter	9-SIP	5.15	4.13	3.21
BP5223-ND	5V, 150mA DC/DC Converter	5-SIP	2.43	1.95	1.52
BP5232A25-ND	5V, 2A DC/DC Converter	10-SIP	6.70	5.36	4.53
BP5232A33-ND	5V, 2A DC/DC Converter	10-SIP	6.70	5.36	4.53
BP5234A33-ND	5V, 3A DC/DC Converter	11-SIP	9.18	7.35	6.20
BP5302A-ND	-24V, 30mA DC/DC Converter for LCDs	9-SIP	4.32	3.46	2.69
BP5302XA-ND	-24V, 30mA DC/DC Converter for LCDs	9LF-SIP	6.42	5.14	4.34
BP5310A-ND	12V, PCMCIA/Flash Memory Power Supply	9-SIP	5.82	4.66	3.93
BP5311XA-ND	30V, 25mA DC/DC Converter for LCDs	9LF-SIP	6.98	5.59	4.72
BP5313A-ND	40V, 60mA DC/DC Converter for LCDs	11-SIP	6.70	5.36	4.53
BP5319-ND	-24V, 30mA DC/DC Converter for LCDs	9-SIP	4.55	3.64	2.83
BP5319X-ND	-24V, 30mA DC/DC Converter for LCDs	9LF-SIP	4.55	3.64	2.83
BP5450-ND	1.5 to 5V, 1.2A DC/DC Converter	18-SIP	12.33	11.10	9.85
BP5811-ND	Variable Output DC/DC Converter	9-SIP	3.04	2.43	1.89
BP5843-ND	High Power LED Driver, Constant Current	11-SIP	9.16	8.25	7.32
BU2092F-E2CT-ND	12-Bit, Serial Input, Parallel Output Driver	18-SOP	1.35	1.13	.90
BU2092F-E2TR-ND	12-Bit, Serial Input, Parallel Output Driver	18-SOP	1198.00/2,000		
BU4S01G2-CT-ND	Single 2-Input NOR Gate	5-SSOP	.48	.36	.27
BU4S01G2-TR-ND	Single 2-Input NOR Gate	5-SSOP	468.00/3,000		
BU4S11G2-CT-ND	Single 2-Input NAND Gate	5-SSOP	.48	.36	.27
BU4S11G2-TR-ND	Single 2-Input NAND Gate	5-SSOP	468.00/3,000		
BU4S66G2-CT-ND	Single Analog Switch	5-SSOP	.48	.36	.27
BU4S66G2-TR-ND	Single Analog Switch	5-SSOP	468.00/3,000		
BU4S584G2-CT-ND	Single Schmitt Inverter	5-SSOP	.48	.36	.27
BU4S584G2-TR-ND	Single Schmitt Inverter	5-SSOP	468.00/3,000		
BU4SU69G2-CT-ND	Single Inverter	5-SSOP	.48	.36	.27
BU4SU69G2-TR-ND	Single Inverter	5-SSOP	468.00/3,000		
BU2050F-E2CT-ND	8-Bit Serial In/Parallel Out Driver	14-SOP	1.55	1.24	.93
BU2050F-E2TR-ND	8-Bit Serial In/Parallel Out Driver	14-SOP	1985.00/2,500		
BU2090F-E2CT-ND	12-Bit Serial In/Parallel Out Driver	16-SOP	1.17	.98	.78
BU2090F-E2TR-ND	12-Bit Serial In/Parallel Out Driver	16-SOP	1267.50/2,500		
BU2090FS-E2CT-ND	12-Bit Serial In/Parallel Out Driver	A16-SSOP	1.17	.98	.78
BU2090FS-E2TR-ND	12-Bit Serial In/Parallel Out Driver	A16-SSOP	1267.50/2,500		
BU2092FV-E2CT-ND	12-Bit Serial In/Parallel Out Driver	B20-SSOP	1.45	1.16	.87
BU2092FV-E2TR-ND	12-Bit Serial In/Parallel Out Driver	B20-SSOP	1855.00/2,500		
BU2098F-E2CT-ND	8-Bit Serial In/Parallel Out Driver	16-SOP	1.48	1.18	.89
BU2098F-E2TR-ND	8-Bit Serial In/Parallel Out Driver	16-SOP	1887.50/2,500		
BU2099FV-E2CT-ND	12-Bit Serial In/Parallel Out Driver	B20-SSOP	1.35	1.13	.90
BU2099FV-E2TR-ND	12-Bit Serial In/Parallel Out Driver	B20-SSOP	1462.50/2,500		
BU2152FS-E2CT-ND	24-Bit Serial In/Parallel Out Driver	A32-SSOP	2.33	1.86	1.40
BU2152FS-E2TR-ND	24-Bit Serial In/Parallel Out Driver	A32-SSOP	2418.00/2,000		
BU2505FV-E2CT-ND	10-Bit, 10-Channel D/A Converter	B20-SSOP	2.57	2.06	1.60
BU2505FV-E2TR-ND	10-Bit, 10-Channel D/A Converter	B20-SSOP	3590.00/2,500		
BU2506FV-E2CT-ND	10-Bit, 8-Channel D/A Converter	20-SSOP	2.33	1.86	1.40
BU2506FV-E2TR-ND	10-Bit, 8-Channel D/A Converter	20-SSOP	2975.00/2,500		
BU2507FV-E2CT-ND	10-Bit, 6-Channel D/A Converter	B14-SSOP	2.33	1.86	1.40
BU2507FV-E2TR-ND	10-Bit, 6-Channel D/A Converter	B14-SSOP	2975.00/2,500		
BU2508FV-E2CT-ND	10-Bit, 4-Channel D/A Converter	14-SSOP	2.25	1.80	1.40
BU2508FV-E2TR-ND	10-Bit, 4-Channel D/A Converter	14-SSOP	3150.00/2,500		
BU9716BK-ND	96 LCD Segment Driver	44-QFP	2.90	2.33	1.81
BU9735K-E2CT-ND	18x4-Bit, 72 Segment LCD Driver	32-QFP	2.99	2.40	1.87
BU9735K-E2TR-ND	18x4-Bit, 72 Segment LCD Driver	32-QFP	2544.00/1,500		
BU52001GUL-E2CT-ND	Hall Effect Switch	VCSP50L1	.88	.66	.50
BU52001GUL-E2TR-ND	Hall Effect Switch	VCSP50L1	858.00/3,000		
BU52002GUL-E2CT-ND	Hall Effect Switch	VCSP50L1	.88	.66	.50
BU52002GUL-E2TR-ND	Hall Effect Switch	VCSP50L1	858.00/3,000		
BU52003GUL-E2CT-ND	Hall Effect Switch	VCSP50L1	.88	.66	.50
BU52003GUL-E2TR-ND	Hall Effect Switch	VCSP50L1	858.00/3,000		
BU52004GUL-E2CT-ND	Hall Effect Switch	VCSP50L1	.88	.66	.50
BU52004GUL-E2TR-ND	Hall Effect Switch	VCSP50L1	858.00/3,000		
BU52011HFV-CT-ND	Hall Effect Switch	5-HVSOF	.64	.48	.36
BU52011HFV-TR-ND	Hall Effect Switch	5-HVSOF	624.00/3,000		
BU52012HFV-CT-ND	Hall Effect Switch	5-HVSOF	.64	.48	.36
BU52012HFV-TR-ND	Hall Effect Switch	5-HVSOF	624.00/3,000		
BU52013HFV-CT-ND	Hall Effect Switch	5-HVSOF	.64	.48	.36
BU52013HFV-TR-ND	Hall Effect Switch	5-HVSOF	624.00/3,000		
BU52014HFV-CT-ND	Hall Effect Switch	5-HVSOF	.96	.72	.54
BU52014HFV-TR-ND	Hall Effect Switch	5-HVSOF	936.00/3,000		
BU52015GUL-E2CT-ND	Hall Effect Switch	VCSP50L1	1.20	1.00	.80
BU52015GUL-E2TR-ND	Hall Effect Switch	VCSP50L1	1560.00/3,000		
BU52021HFV-CT-ND	Hall Effect Switch	5-HVSOF	.64	.48	.36
BU52021HFV-TR-ND	Hall Effect Switch	5-HVSOF	624.00/3,000		
BU52025G-CT-ND	S and N Pole Detection Hall Effect Switch	5-SSOP	.92	.69	.52
BU52025G-TR-ND	S and N Pole Detection Hall Effect Switch	5-SSOP	897.00/3,000		
BU52040HFV-CT-ND	Bipolar Latch Type Hall Effect IC	5-HVSOF	1.29	1.08	.86
BU52040HFV-TR-ND	Bipolar Latch Type Hall Effect IC	5-HVSOF	1677.00/3,000		

Memory

BR24C32-WMN6TPCT-ND	32Kbit I^{2}C Bus Serial EEPROM	8-SOIC	.87	.73	.58
BR24C32-WMN6TPTR-ND	32Kbit I^{2}C Bus Serial EEPROM	8-SOIC	942.50/2,500		
BR24L01A-W-ND	128x8-Bit Serial EEPROM	8-Dip	.80	.60	.45
BR24L01AF-WE2CT-ND	128x8-Bit Serial EEPROM	8-SOP	.55	.44	.33
BR24L01AF-WE2TR-ND	128x8-Bit Serial EEPROM	8-SOP	372.50/2,500		
BR24L01AFJ-WE2CT-ND	128x8-Bit Serial EEPROM	J8-SOP	.52	.39	.30
BR24L01AFJ-WE2TR-ND	128x8-Bit Serial EEPROM	J8-SOP	422.50/2,500		
BR24L01AFV-WE2CT-ND	128x8-Bit Serial EEPROM	B8-SSOP	.48	.36	.27
BR24L01AFV-WE2TR-ND	128x8-Bit Serial EEPROM	B8-SSOP	390.00/2,500		
BR24L01AFVM-WCT-ND	128x8-Bit Serial EEPROM	8-MSOP	.52	.39	.30
BR24L01AFVM-WTR-ND	128x8-Bit Serial EEPROM	8-MSOP	507.00/3,000		
BR24L02-W-ND	256x8-Bit Serial EEPROM	8-Dip	.80	.60	.45
BR24L02F-WE2CT-ND	256x8-Bit Serial EEPROM	8-SOP	.48	.36	.27
BR24L02F-WE2TR-ND	256x8-Bit Serial EEPROM	8-SOP	390.00/2,500		
BR24L02FJ-WE2CT-ND	256x8-Bit Serial EEPROM	J8-SOP	.52	.39	.30
BR24L02FJ-WE2TR-ND	256x8-Bit Serial EEPROM	J8-SOP	422.50/2,500		
BR24L02FV-WE2CT-ND	256x8-Bit Serial EEPROM	B8-SSOP	.55	.44	.33
BR24L02FV-WE2TR-ND	256x8-Bit Serial EEPROM	B8-SSOP	372.50/2,500		
BR24L02FVM-WCT-ND	256x8-Bit Serial EEPROM	8-MSOP	.52	.39	.30
BR24L02FVM-WTR-ND	256x8-Bit Serial EEPROM	8-MSOP	507.00/3,000		

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
BR24L04-W-ND	512x8-Bit Serial EEPROM	8-Dip	.88	.66	.50
BR24L04F-WE2CT-ND	512x8-Bit Serial EEPROM	8-SOP	.72	.54	.41
BR24L04F-WE2TR-ND	512x8-Bit Serial EEPROM	8-SOP	585.00/2,500		
BR24L04FJ-WE2CT-ND	512x8-Bit Serial EEPROM	J8-SOP	.72	.54	.41
BR24L04FJ-WE2TR-ND	512x8-Bit Serial EEPROM	J8-SOP	585.00/2,500		
BR24L04FV-WE2CT-ND	512x8-Bit Serial EEPROM	B8-SSOP	.72	.54	.41
BR24L04FV-WE2TR-ND	512x8-Bit Serial EEPROM	B8-SSOP	585.00/2,500		
BR24L04FVM-WCT-ND	512x8-Bit Serial EEPROM	8-MSOP	.72	.54	.41
BR24L04FVM-WTR-ND	512x8-Bit Serial EEPROM	8-MSOP	702.00/3,000		
BR24L08-W-ND	1Kx8-Bit Serial EEPROM	8-Dip	.96	.72	.54
BR24L08F-WE2CT-ND	1Kx8-Bit Serial EEPROM	8-SOP	.72	.54	.41
BR24L08F-WE2TR-ND	1Kx8-Bit Serial EEPROM	8-SOP	585.00/2,500		
BR24L08FJ-WE2CT-ND	1Kx8-Bit Serial EEPROM	J8-SOP	.72	.54	.41
BR24L08FJ-WE2TR-ND	1Kx8-Bit Serial EEPROM	J8-SOP	585.00/2,500		
BR24L08FV-WE2CT-ND	1Kx8-Bit Serial EEPROM	B8-SSOP	.72	.54	.41
BR24L08FV-WE2TR-ND	1Kx8-Bit Serial EEPROM	B8-SSOP	585.00/2,500		
BR24L08FVM-WCT-ND	1Kx8-Bit Serial EEPROM	8-MSOP	.72	.54	.41
BR24L08FVM-WTR-ND	1Kx8-Bit Serial EEPROM	8-MSOP	702.00/3,000		
BR24L16FJ-WE2CT-ND	2Kx8-Bit Serial EEPROM	J8-SOP	.84	.63	.48
BR24L16FJ-WE2TR-ND	2Kx8-Bit Serial EEPROM	J8-SOP	682.50/2,500		
BR24L16-W-ND	2Kx8-Bit Serial EEPROM	8-Dip	.78	.65	.52
BR24L16F-WE2CT-ND	2Kx8-Bit Serial EEPROM	8-SOP	.84	.63	.48
BR24L16F-WE2TR-ND	2Kx8-Bit Serial EEPROM	8-SOP	682.50/2,500		
BR24L16FV-WE2CT-ND	2Kx8-Bit Serial EEPROM	B8-SSOP	.84	.63	.48
BR24L16FV-WE2TR-ND	2Kx8-Bit Serial EEPROM	B8-SSOP	682.50/2,500		
BR24L16FVM-WCT-ND	2Kx8-Bit Serial EEPROM	8-MSOP	.84	.63	.48
BR24L16FVM-WTR-ND	2Kx8-Bit Serial EEPROM	8-MSOP	819.00/3,000		
BR24L32FJ-WE2CT-ND	4Kx8-Bit Serial EEPROM	J8-SOP	1.02	.85	.68
BR24L32FJ-WE2TR-ND	4Kx8-Bit Serial EEPROM	J8-SOP	1105.00/2,500		
BR24L32-W-ND	4Kx8-Bit Serial EEPROM	8-Dip	1.44	1.20	.96
BR24L32F-WE2CT-ND	4Kx8-Bit Serial EEPROM	8-SOP	1.02	.85	.68
BR24L32F-WE2TR-ND	4Kx8-Bit Serial EEPROM	8-SOP	1105.00/2,500		
BR24L32FV-WE2CT-ND	4Kx8-Bit Serial EEPROM	B8-SSOP	1.02	.85	.68
BR24L32FV-WE2TR-ND	4Kx8-Bit Serial EEPROM	B8-SSOP	1105.00/2,500		
BR24L64-W-ND	8Kx8-Bit Serial EEPROM	8-Dip	1.47	1.23	.98
BR24L64F-WE2CT-ND	8Kx8-Bit Serial EEPROM	8-SOP	1.32	1.10	.88
BR24L64F-WE2TR-ND	8Kx8-Bit Serial EEPROM	8-SOP	1430.00/2,500		
BR25L010FJ-WE2CT-ND	128x8-Bit Serial EEPROM	J8-SOP	.84	.63	.48
BR25L010FJ-WE2TR-ND	128x8-Bit Serial EEPROM	J8-SOP	682.50/2,500		
BR25L010FVJ-WE2CT-ND	128x8-Bit Serial EEPROM	B8J-TSSOP	.88	.66	.50
BR25L010FVJ-WE2TR-ND	128x8-Bit Serial EEPROM	B8J-TSSOP	715.00/2,500		
BR25L010FVT-WE2CT-ND	128x8-Bit Serial EEPROM	B8-TSSOP	.88	.66	.50
BR25L010FVT-WE2TR-ND	128x8-Bit Serial EEPROM	B8-TSSOP	858.00/3,000		
BR25L020FJ-WE2CT-ND	256x8-Bit Serial EEPROM	J8-SOP	.92	.69	.52
BR25L020FJ-WE2TR-ND	256x8-Bit Serial EEPROM	J8-SOP	747.50/2,500		
BR25L020FVJ-WE2CT-ND	256x8-Bit Serial EEPROM	B8J-TSSOP	.96	.72	.54
BR25L020FVJ-WE2TR-ND	256x8-Bit Serial EEPROM	B8J-TSSOP	780.00/2,500		
BR25L020FVT-WE2CT-ND	256x8-Bit Serial EEPROM	B8-TSSOP	.96	.72	.54
BR25L020FVT-WE2TR-ND	256x8-Bit Serial EEPROM	B8-TSSOP	936.00/3,000		
BR25L040FJ-WE2CT-ND	512x8-Bit Serial EEPROM	J8-SOP	.84	.63	.48
BR25L040FJ-WE2TR-ND	512x8-Bit Serial EEPROM	J8-SOP	682.50/2,500		
BR25L040FVJ-WE2CT-ND	512x8-Bit Serial EEPROM	B8J-TSSOP	.84	.63	.48
BR25L040FVJ-WE2TR-ND	512x8-Bit Serial EEPROM	B8J-TSSOP	682.50/2,500		
BR25L040FVT-WE2CT-ND	512x8-Bit Serial EEPROM	B8-TSSOP	.84	.63	.48
BR25L040FVT-WE2TR-ND	512x8-Bit Serial EEPROM	B8-TSSOP	819.00/3,000		
BR25L080FJ-WE2CT-ND	1Kx8-Bit Serial EEPROM	J8-SOP	.81	.68	.54
BR25L080FJ-WE2TR-ND	1Kx8-Bit Serial EEPROM	J8-SOP	877.50/2,500		
BR25L080FVT-WE2CT-ND	1Kx8-Bit Serial EEPROM	B8-TSSOP	.87	.73	.58
BR25L080FVT-WE2TR-ND	1Kx8-Bit Serial EEPROM	B8-TSSOP	1131.00/3,000		
BR25L160FJ-WE2CT-ND	2Kx8-Bit Serial EEPROM	J8-SOP	.87	.73	.58
BR25L160FJ-WE2TR-ND	2Kx8-Bit Serial EEPROM	J8-SOP	942.50/2,500		
BR25L160FVT-WE2CT-ND	2Kx8-Bit Serial EEPROM	B8-TSSOP	.93	.78	.62
BR25L160FVT-WE2TR-ND	2Kx8-Bit Serial EEPROM	B8-TSSOP	1209.00/3,000		
BR25L320FJ-WE2CT-ND	4Kx8-Bit Serial EEPROM	J8-SOP	1.11	.93	.74
BR25L320FJ-WE2TR-ND	4Kx8-Bit Serial EEPROM	J8-SOP	1202.50/2,500		
BR25L640FJ-WE2CT-ND	8Kx8-Bit Serial EEPROM	J8-SOP	1.41	1.18	.94
BR25L640FJ-WE2TR-ND	8Kx8-Bit Serial EEPROM	J8-SOP	1527.50/2,500		
BR34L02FV-WE2CT-ND	256x8-Bit Serial EEPROM	B8-SSOP	.48	.36	.27
BR34L02FV-WE2TR-ND	256x8-Bit Serial EEPROM	B8-SSOP	390.00/2,500		
BR93C86-WMN6TPCT-ND	1Kx16-Bit Serial EEPROM	8-SOIC	.76	.57	.43
BR93C86-WMN6TPTR-ND	1Kx16-Bit Serial EEPROM	8-SOIC	617.50/2,500		
BR93L46-W-ND	64x16-Bit Serial EEPROM	8-Dip	.72	.54	.41
BR93L46F-WE2CT-ND	64x16-Bit Serial EEPROM	8-SOP	.64	.48	.36
BR93L46F-WE2TR-ND	64x16-Bit Serial EEPROM	8-SOP	520.00/2,500		
BR93L46FJ-WE2CT-ND	64x16-Bit Serial EEPROM	J8-SOP	.64	.48	.36
BR93L46FJ-WE2TR-ND	64x16-Bit Serial EEPROM	J8-SOP	520.00/2,500		
BR93L46FV-WE2CT-ND	64x16-Bit Serial EEPROM	B8-SSOP	.64	.48	.36
BR93L46FV-WE2TR-ND	64x16-Bit Serial EEPROM	B8-SSOP	520.00/2,500		
BR93L46RF-WE2CT-ND	64x16-Bit Serial EEPROM	8-SOP	.64	.48	.36
BR93L46RF-WE2TR-ND	64x16-Bit Serial EEPROM	8-SOP	520.00/2,500		
BR93L46RFJ-WE2CT-ND	64x16-Bit Serial EEPROM	J8-SOP	.64	.48	.36
BR93L46RFJ-WE2TR-ND	64x16-Bit Serial EEPROM	J8-SOP	520.00/2,500		
BR93L46RFV-WE2CT-ND	64x16-Bit Serial EEPROM	B8-SSOP	.64	.48	.36
BR93L46RFV-WE2TR-ND	64x16-Bit Serial EEPROM	B8-SSOP	520.00/2,500		
BR93L46RFVM-WCT-ND	64x16-Bit Serial EEPROM	8-MSOP	.64	.48	.36
BR93L46RFVM-WTR-ND	64x16-Bit Serial EEPROM	8-MSOP	624.00/3,000		
BR93L56-W-ND	128x16-Bit Serial EEPROM	8-Dip	.88	.66	.50
BR93L56F-WE2CT-ND	128x16-Bit Serial EEPROM	8-SOP	.64	.48	.36
BR93L56F-WE2TR-ND	128x16-Bit Serial EEPROM	8-SOP	520.00/2,500		
BR93L56FV-WE2CT-ND	128x16-Bit Serial EEPROM	B8-SSOP	.64	.48	.36
BR93L56FV-WE2TR-ND	128x16-Bit Serial EEPROM	B8-SSOP	520.00/2,500		
BR93L56RF-WE2CT-ND	128x16-Bit Serial EEPROM	8-SOP	.64	.48	.36
BR93L56RF-WE2TR-ND	128x16-Bit Serial EEPROM	8-SOP	520.00/2,500		
BR93L56RFVM-WCT-ND	128x16-Bit Serial EEPROM	8-MSOP	.64	.48	.36
BR93L56RFVM-WTR-ND	128x16-Bit Serial EEPROM	8-MSOP	624.00/3,000		
BR93L66-W-ND	256x16-Bit Serial EEPROM	8-Dip	.75	.63	.50
BR93L66F-WE2CT-ND	256x16-Bit Serial EEPROM	8-SOP	.80	.60	.45
BR93L66F-WE2TR-ND	256x16-Bit Serial EEPROM	8-SOP	650.00/2,500		
BR93L66FV-WE2CT-ND	256x16-Bit Serial EEPROM	B8-SSOP	.80	.60	.45
BR93L66FV-WE2TR-ND	256x16-Bit Serial EEPROM	B8-SSOP	650.00/2,500		

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ROHM Digi-Reel® INTEGRATED CIRCUITS *(Continued)*

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BR93L66RFVM-WCT-ND	256x16-Bit Serial EEPROM	8-MSOP	.80	.60	.45
BR93L66RFVM-WTR-ND	256x16-Bit Serial EEPROM	8-MSOP	780.00/3,000		
BR93L76-W-ND	512x16-Bit Serial EEPROM	8-Dip	.93	.78	.62
BR93L76F-WE2CT-ND	512x16-Bit Serial EEPROM	8-SOP	.80	.60	.45
BR93L76F-WE2TR-ND	512x16-Bit Serial EEPROM	8-SOP	650.00/2,500		
BR93L76RF-WE2CT-ND	512x16-Bit Serial EEPROM	8-SOP	.72	.54	.41
BR93L76RF-WE2TR-ND	512x16-Bit Serial EEPROM	8-SOP	585.00/2,500		
BR93L76RFJ-WE2CT-ND	512x16-Bit Serial EEPROM	8-SOIC	.88	.66	.50
BR93L76RFJ-WE2TR-ND	512x16-Bit Serial EEPROM	8-SOIC	715.00/2,500		
BR93L76RFV-WE2CT-ND	512x16-Bit Serial EEPROM	B8-SSOP	.88	.66	.50
BR93L76RFV-WE2TR-ND	512x16-Bit Serial EEPROM	B8-SSOP	715.00/2,500		
BR93L76RFVJ-WE2CT-ND	512x16-Bit Serial EEPROM	B8J-TSSOP	.96	.72	.54
BR93L76RFVJ-WE2TR-ND	512x16-Bit Serial EEPROM	B8J-TSSOP	780.00/2,500		
BR93L76RFVM-WCT-ND	512x16-Bit Serial EEPROM	8-MSOP	.88	.66	.50
BR93L76RFVM-WTR-ND	512x16-Bit Serial EEPROM	8-MSOP	858.00/3,000		
BR93L76RFVT-WE2CT-ND	512x16-Bit Serial EEPROM	B8-TSSOP	.96	.72	.54
BR93L76RFVT-WE2TR-ND	512x16-Bit Serial EEPROM	B8-TSSOP	936.00/3,000		
BR93L86-W-ND	1Kx16-Bit Serial EEPROM	8-Dip	1.26	1.05	.84
BR93L86F-WE2CT-ND	1Kx16-Bit Serial EEPROM	8-SOP	.88	.66	.50
BR93L86F-WE2TR-ND	1Kx16-Bit Serial EEPROM	8-SOP	715.00/2,500		
BR93L86RF-WE2CT-ND	1Kx16-Bit Serial EEPROM	8-SOP	.96	.72	.54
BR93L86RF-WE2TR-ND	1Kx16-Bit Serial EEPROM	8-SOP	780.00/2,500		
BR93L86RFJ-WE2CT-ND	1Kx16-Bit Serial EEPROM	8-SOIC	.96	.72	.54
BR93L86RFJ-WE2TR-ND	1Kx16-Bit Serial EEPROM	8-SOIC	780.00/2,500		
BR93L86RFV-WE2CT-ND	1Kx16-Bit Serial EEPROM	B8-SSOP	.75	.63	.50
BR93L86RFV-WE2TR-ND	1Kx16-Bit Serial EEPROM	B8-SSOP	812.50/2,500		
BR93L86RFVJ-WE2CT-ND	1Kx16-Bit Serial EEPROM	B8J-TSSOP	.81	.68	.54
BR93L86RFVJ-WE2TR-ND	1Kx16-Bit Serial EEPROM	B8J-TSSOP	877.50/2,500		
BR93L86RFVM-WCT-ND	1Kx16-Bit Serial EEPROM	8-MSOP	.75	.63	.50
BR93L86RFVM-WTR-ND	1Kx16-Bit Serial EEPROM	8-MSOP	975.00/3,000		
BR93L86RFVT-WE2CT-ND	1Kx16-Bit Serial EEPROM	B8-TSSOP	.81	.68	.54
BR93L86RFVT-WE2TR-ND	1Kx16-Bit Serial EEPROM	B8-TSSOP	1053.00/3,000		
BR95010-WMN6TPCT-ND	SPI Bus Serial EEPROM	8-SOIC	.72	.54	.41
BR95010-WMN6TPTR-ND	SPI Bus Serial EEPROM	8-SOIC	585.00/2,500		
BR95080-WMN6TPCT-ND	SPI Bus Serial EEPROM	8-SOIC	.92	.69	.52
BR95080-WMN6TPTR-ND	SPI Bus Serial EEPROM	8-SOIC	747.50/2,500		
BR95320-WMN6TPCT-ND	SPI Bus Serial EEPROM	8-SOIC	.96	.80	.64
BR95320-WMN6TPTR-ND	SPI Bus Serial EEPROM	8-SOIC	1040.00/2,500		

International IOR Rectifier Digi-Reel® CONTROL / POWER INTEGRATED CIRCUITS

Driver ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IP1001-ND	20A, Full Function Sync. Buck Power Block	14x14mm BGA	26.68	22.02	18.68
IP1201-ND	30A, Dual Out Full Function 2-Phase Sync. Buck Power Block	15.5x9.25x2.6mm BGA	20.10	16.08	13.07
IP1202-ND	30A, Dual Out Full Function 2-Phase Sync. Buck Power Block	15.5x9.25x2.6mm BGA	20.10	16.08	13.07
IP1203-ND	15A, Single Out Full Function Sync. Buck Power Block	9x9x2.3mm BGA	11.97	—	—
IP2001-ND	20A, Sync. Buck Multiphase Optimized BGA Power Block	144-BGA	15.82	11.25	10.20
IP2002-ND	30A, Sync. Buck Multiphase Optimized BGA Power Block	8-BGA	16.25	12.00	11.03
IP2002PBF-ND	30A, Sync. Buck Multiphase Optimized BGA Power Block*	8-BGA	17.42	13.55	11.23
IP2003A-ND	40A, Sync. Buck Multiphase Optimized LGA Power Block	9x11x2.2mm LGA	17.49	12.72	11.13
IP2003ACT-ND	40A, Sync. Buck Multiphase Optimized LGA Power Block	9x11x2.2mm LGA	17.89	12.72	11.53
IP2003ATR-ND	40A, Sync. Buck Multiphase Optimized LGA Power Block	9x11x2.2mm LGA	9938.00/1,000		
IR1176-ND	5V, 4A, Synchronous Rectifier Driver	20-PDip	7.63	5.24	4.58
IR1166STRPBFCT-ND	SmartRectifier™ Controller*	8-SOIC	3.12	1.93	1.67
IR1166STRPBFTR-ND	SmartRectifier™ Controller*	8-SOIC	3510.00/2,500		
IR1167ASPBF-ND	SmartRectifier™ Controller*	8-SOIC	3.90	2.41	2.08
IR1167BSPBF-ND	SmartRectifier™ Controller*	8-SOIC	3.90	2.41	2.08
IR2010PBF-ND	High and Low Side Driver*	14-Dip	4.50	3.00	2.63
IR2085S-ND	Self-Oscillating Half-Bridge Driver	8-SOIC	3.99	2.61	2.30
IR2085SPBFCT-ND	Self-Oscillating Half-Bridge Driver*	8-SOIC	4.35	2.69	2.32
IR2085SPBFTR-ND	Self-Oscillating Half-Bridge Driver*	8-SOIC	4895.00/2,500		
IR2101PBF-ND	High and Low Side Driver*	8-Dip	3.60	2.22	1.92
IR2101S-ND	High and Low Side Driver	8-SOIC	3.99	2.47	2.13
IR2101SPBFCT-ND	High and Low Side Driver*	8-SOIC	4.14	2.56	2.21
IR2101SPBFTR-ND	High and Low Side Driver*	8-SOIC	3025.00/2,500		
IR2102S-ND	High and Low MOS Driver	8-SOIC	3.33	2.66	2.05
IR2103PBF-ND	High and Low MOS Driver*	8-Dip	4.20	2.22	1.92
IR2103S-ND	High and Low MOS Driver	8-SOIC	3.99	2.47	2.13
IR2103SPBFCT-ND	High and Low MOS Driver*	8-SOIC	4.14	2.56	2.21
IR2103SPBFTR-ND	High and Low MOS Driver*	8-SOIC	2855.00/2,500		
IR2104PBF-ND	High and Low Side Driver*	8-Dip	3.60	2.22	1.92
IR2104SPBFCT-ND	High and Low Side Driver*	8-SOIC	4.14	2.56	2.21
IR2104SPBFTR-ND	High and Low Side Driver*	8-SOIC	2730.00/2,500		
IR2106PBF-ND	High and Low Side Driver*	8-Dip	3.96	2.45	2.12
IR2106SPBFCT-ND	High and Low Side Driver*	8-SOIC	4.20	2.59	2.24
IR2106SPBFTR-ND	High and Low Side Driver*	8-SOIC	4725.00/2,500		
IR2107-ND	High and Low Side Driver	8-Dip	2.97	2.38	1.79
IR2108PBF-ND	High and Low Side Driver*	8-Dip	3.96	2.45	2.12
IR2108SPBFCT-ND	High and Low Side Driver*	8-SOIC	4.20	2.59	2.24
IR2108SPBFTR-ND	High and Low Side Driver*	8-SOIC	4725.00/2,500		
IR2109PBF-ND	Half-Bridge Driver*	8-Dip	3.96	2.64	2.12
IR2109SPBFCT-ND	Half-Bridge Driver*	8-SOIC	4.20	2.59	2.24
IR2109SPBFTR-ND	Half-Bridge Driver*	8-SOIC	2730.00/2,500		
IR2110-1PBF-ND	High and Low Side Driver*	14-Dip	7.17	4.19	3.83
IR2110-2PBF-ND	High and Low Side Driver*	14-Dip	7.32	4.27	3.91
IR2110PBF-ND	High and Low Side Driver*	14-Dip	5.85	3.61	3.12
IR2110SPBFCT-ND	High and Low Side Driver*	16-SOIC	6.45	3.77	3.44
IR2110SPBFTR-ND	High and Low Side Driver*	16-SOIC	2352.00/1,000		
IR2111-ND	Half-Bridge Driver	8-Dip	3.78	2.34	2.02
IR2111S-ND	Half-Bridge Driver	8-SOIC	4.23	2.61	2.26
IR2111SPBFCT-ND	Half-Bridge Driver*	8-SOIC	4.38	2.71	2.34
IR2111SPBFTR-ND	Half-Bridge Driver*	8-SOIC	3222.50/2,500		
IR2111STR-ND	Half-Bridge Driver	8-SOIC	4927.50/2,500		
IR2112-1PBF-ND	High and Low Side Driver*	14-Dip	4.53	2.80	2.42
IR2112-2PBF-ND	High and Low Side Driver*	16-Dip	5.04	3.11	2.69
IR2112STR-ND	High and Low Side Driver	16-SOIC	2138.00/1,000		
IR2112SPBFCT-ND	High and Low Side Driver*	16-SOIC	4.83	2.98	2.58
IR2112SPBFTR-ND	High and Low Side Driver*	16-SOIC	1680.00/1,000		
IR2113-1PBF-ND	High and Low Side Driver*	14-Dip	7.17	4.19	3.83
IR2113-2PBF-ND	High and Low Side Driver*	14-Dip	7.32	4.27	3.91
IR2113S-ND	High and Low Side Driver	16-SOIC	7.05	4.12	3.76
IR2113SPBFCT-ND	High and Low Side Driver*	16-SOIC	7.23	4.46	3.86
IR2113SPBFTR-ND	High and Low Side Driver*	16-SOIC	2050.00/1,000		
IR2117STR-ND	Single-Channel Driver	8-SOIC	4387.50/2,500		
IR2117SPBFCT-ND	Single-Channel Driver*	8-SOIC	3.90	2.41	2.08
IR2117SPBFTR-ND	Single-Channel Driver*	8-SOIC	3360.00/2,500		
IR2118-ND	High Side Driver	8-Dip	3.36	2.08	1.80
IR2118S-ND	High Side Driver	8-SOIC	3.75	2.32	2.00
IR2118SPBFCT-ND	High Side Driver*	8-SOIC	3.90	2.41	2.08
IR2118SPBFTR-ND	High Side Driver*	8-SOIC	3540.00/2,500		
IR2121PBF-ND	Current Limiting Low Side Driver*	8-Dip	7.05	4.12	3.76
IR2122-ND	High Side Driver	8-Dip	5.70	3.52	3.04
IR2125-ND	Current Limiting Single-Channel Driver	8-Dip	7.05	4.12	3.76
IR2125S-ND	Current Limiting Single-Channel Driver	16-SOIC	7.20	4.20	3.84
IR2127-ND	Current Sensing Single-Channel Driver	8-Dip	3.80	2.74	2.62
IR2127S-ND	Current Sensing Single-Channel Driver	8-SOIC	5.70	3.52	3.04
IR2127SPBFCT-ND	Current Sensing Single-Channel Driver*	8-SOIC	5.85	3.61	3.12
IR2127SPBFTR-ND	Current Sensing Single-Channel Driver*	8-SOIC	4130.00/2,500		
IR2127STR-ND	Current Sensing Single-Channel Driver	8-SOIC	6581.25/2,500		
IR2128PBF-ND	High Side Driver*	8-Dip	5.10	3.15	2.72
IR2128S-ND	High Side Driver	8-SOIC	4.75	3.04	2.85
IR2130-ND	3-Phase Bridge Driver	28-Dip	11.93	8.60	8.22
IR2130JPBF-ND	3-Phase Bridge Driver*	44-PLCC	12.83	9.12	8.27
IR2131S-ND	Triple High and Low Side Driver	28-SOIC	14.25	11.40	8.78
IR2132S-ND	3-Phase Bridge Driver	28-SOIC	14.25	11.40	8.78
IR2132SPBFCT-ND	3-Phase Bridge Driver*	28-SOIC	13.10	9.32	8.44
IR2132SPBFTR-ND	3-Phase Bridge Driver*	28-SOIC	5994.00/1,000		
IR2133JPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	13.61	9.68	8.78
IR2133JPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	4084.00/500		
IR2135-ND	3-Phase Bridge Driver	28-Dip	14.25	11.40	8.78
IR2135J-ND	3-Phase Bridge Driver	44-PLCC	14.75	11.80	9.09
IR2135SPBFCT-ND	3-Phase Bridge Driver*	28-SOIC	13.05	9.28	8.41
IR2135SPBFTR-ND	3-Phase Bridge Driver*	28-SOIC	7540.00/1,000		
IR2136-ND	3-Phase Bridge Driver	28-Dip	7.60	5.49	5.24
IR2136JPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	9.05	6.34	5.43
IR2136JPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	2534.00/500		
IR2136S-ND	3-Phase Bridge Driver	28-SOIC	8.50	6.80	5.24
IR2136SPBFCT-ND	3-Phase Bridge Driver*	28-SOIC	8.75	6.13	5.25
IR2136SPBFTR-ND	3-Phase Bridge Driver*	28-SOIC	4725.00/1,000		
IR2153SPBFCT-ND	Self-Oscillating Half-Bridge Driver*	8-SOIC	4.14	2.56	2.21
IR2175PBF-ND	Linear Current Sensing IC*	8-Dip	6.25	4.38	3.75
IR2175SPBFCT-ND	Linear Current Sensing IC*	8-SOIC	6.50	4.55	3.90
IR2175SPBFTR-ND	Linear Current Sensing IC*	8-SOIC	8450.00/2,500		
IR2181PBF-ND	High and Low Side Driver*	8-Dip	4.50	2.78	2.40
IR2181S-ND	High and Low Side Driver	8-SOIC	4.34	2.79	2.52
IR2181SPBFCT-ND	High and Low Side Driver*	8-SOIC	4.80	2.96	2.56
IR2181SPBFTR-ND	High and Low Side Driver*	8-SOIC	5400.00/2,500		
IR2182-ND	High and Low Side Driver	8-Dip	3.38	2.70	2.03
IR2183PBF-ND	Half-Bridge Driver*	8-Dip	4.50	2.78	2.40
IR2183S-ND	Half-Bridge Driver	8-SOIC	4.34	2.79	2.52
IR2183SPBFCT-ND	Half-Bridge Driver*	8-SOIC	4.80	2.96	2.56
IR2183SPBFTR-ND	Half-Bridge Driver*	8-SOIC	5400.00/2,500		
IR2184PBF-ND	High and Low Side Driver*	8-Dip	4.50	2.78	2.40
IR2233J-ND	3-Phase Bridge Driver	44-PLCC	26.81	19.39	18.48
IR2233JPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	24.10	18.08	16.87
IR2233JPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	8134.00/500		
IR2233S-ND	3-Phase Bridge Driver	28-SOIC	30.00	24.00	18.48
IR2235J-ND	3-Phase Bridge Driver	44-PLCC	37.50	30.00	23.10
IR2235JPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	30.30	22.73	21.21
IR2235JPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	10226.50/500		
IR2301PBF-ND	High and Low Side Driver*	8-Dip	3.00	1.85	1.60
IR2301S-ND	High and Low Side Driver	8-SOIC	3.06	1.89	1.67
IR2301SPBFCT-ND	High and Low Side Driver*	8-SOIC	3.18	1.97	1.70
IR2301SPBFTR-ND	High and Low Side Driver*	8-SOIC	3577.50/2,500		
IR2302PBF-ND	Half-Bridge Driver*	8-Dip	3.00	1.85	1.60
IR2304-ND	Half-Bridge Driver	8-Dip	3.23	1.90	1.67
IR2520DPBF-ND	Adaptive Ballast Control IC*	8-Dip	2.97	1.98	1.74
IR3080MPBFCT-ND	XPHASE™ VRD10 Controller*	32-MLPQ	4.05	2.70	2.16
IR3080MPBFTR-ND	XPHASE™ VRD10 Controller*	32-MLPQ	5469.00/3,000		
IR3081AMPBF-ND	XPHASE™ VR10.0 Controller*	28-MLPQ	3.77	2.47	2.20
IR3081AMPBFCT-ND	XPHASE™ VR10.0 Controller*	28-MLPQ	4.11	2.74	2.20
IR3081AMPBFTR-ND	XPHASE™ VR10.0 Controller*	28-MLPQ	6165.00/3,000		
IR3081M-ND	XPHASE™ VR10.0 Controller	28-MLPQ	3.90	2.53	2.24
IR3082AMPBF-ND	9.6V AMD XPHASE™ Controller*	20-MLPQ	3.84	2.37	2.05
IR3082AMTRPBFCT-ND	9.6V AMD XPHASE™ Controller*	20-MLPQ	3.84	2.37	2.05
IR3082AMTRPBFTR-ND	9.6V AMD XPHASE™ Controller*	20-MLPQ	5184.00/3,000		
IR3087M-ND	XPHASE™ with OPTI-PHASE™, OVP, Over Temperature	20L-MLPQ	2.82	1.65	1.46
IR3094MPBFCT-ND	3-Phase PWM Controller for Point of Load*	48-MLPQ	7.02	4.68	3.75
IR3094MPBFTR-ND	3-Phase PWM Controller for Point of Load*	48-MLPQ	9126.00/3,000		
IR3101-ND	1.6A, 500V Half-Bridge FredFET Driver	9-Sip	6.25	4.13	3.75
IR3103-ND	0.75A, 500V Gate Driver with Half-Bridge FredFET Driver	9-Sip	5.54	3.95	3.41
IR4427PBF-ND	Low Side Driver*	8-Dip	2.80	1.60	1.40
IR4427SPBFCT-ND	Low Side Driver*	8-SOIC	3.15	1.80	1.58
IR4427SPBFTR-ND	Low Side Driver*	8-SOIC	3150.00/2,500		
IR4428-ND	Low Side Driver	8-Dip	2.80	1.60	1.40
IR4428S-ND	Low Side Driver	8-SOIC	2.98	1.70	1.49
IR4428SPBFCT-ND	Low Side Driver*	8-SOIC	3.15	1.80	1.58
IR4428SPBFTR-ND	Low Side Driver*	8-SOIC	3007.50/2,500		
IR21064PBF-ND	High and Low Side Driver*	14-Dip	4.05	2.50	2.16
IR21064S-ND	High and Low Side Driver	14-SOIC	3.43	2.74	2.11
IR21064SPBFCT-ND	High and Low Side Driver*	14-SOIC	4.29	2.65	2.29
IR21064SPBFTR-ND	High and Low Side Driver*	14-SOIC	4827.50/2,500		
IR21084PBF-ND	High and Low Side Driver*	14-Dip	4.05	2.50	2.16
IR21084S-ND	High and Low Side Driver	14-SOIC	3.43	2.74	2.11
IR21084SPBFCT-ND	High and Low Side Driver*	14-SOIC	4.29	2.65	2.29
IR21084SPBFTR-ND	High and Low Side Driver*	14-SOIC	4827.50/2,500		
IR21094-ND	Half-Bridge Driver	14-Dip	4.14	2.56	2.21

***** RoHS Compliant**

(Continued)

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CONTROL / POWER INTEGRATED CIRCUITS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IR21271SPBFCT-ND	600V, 200/420mA Current Sensing Single Channel Driver*	8-SOIC	5.85	3.61	3.12
IR21271SPBFTR-ND	600V, 200/420mA Current Sensing Single Channel Driver*	8-SOIC	5225.00/2,500		
IR21362JPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	9.05	6.34	5.43
IR21362JPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	2534.00/500		
IR21362S-ND	3-Phase Bridge Driver	28-SOIC	8.50	6.80	5.24
IR21362SPBFCT-ND	3-Phase Bridge Driver*	28-SOIC	8.75	6.13	5.25
IR21362SPBFTR-ND	3-Phase Bridge Driver*	28-SOIC	4725.00/1,000		
IR21368PBF-ND	3-Phase Bridge Driver*	28-Dip	8.50	5.95	5.10
IR21531S-ND	Half-Bridge Driver	8-SOIC	3.81	2.35	2.04
IR21531SPBFCT-ND	Half-Bridge Driver*	8-SOIC	3.90	2.41	2.08
IR21531SPBFTR-ND	Half-Bridge Driver*	8-SOIC	3437.50/2,500		
IR21571PBF-ND	Ballast Control*	16-Dip	5.40	3.33	2.88
IR21571SPBF-ND	Ballast Control*	16-SOIC	5.09	3.24	2.96
IR21592SPBF-ND	Dimming Ballast Control*	16-SOIC	6.13	3.91	3.57
IR21593-ND	Dimming Ballast Control	16-Dip	5.89	3.71	3.45
IR21593S-ND	Dimming Ballast Control	16-SOIC	6.02	3.80	3.53
IR21814PBF-ND	600V, 1.7A High and Low Side Driver*	14-Dip	4.65	2.87	2.48
IR21814S-ND	600V, 1.7A High and Low Side Driver	14-SOIC	4.48	2.88	2.60
IR21814SPBFCT-ND	600V, 1.7A High and Low Side Driver*	14-SOIC	4.95	3.06	2.64
IR21814SPBFTR-ND	600V, 1.7A High and Low Side Driver*	14-SOIC	5570.00/2,500		
IR21834PBF-ND	600V, Half-Bridge Driver*	14-Dip	4.65	3.10	2.48
IR21834SCT-ND	600V, Half-Bridge Driver	14-SOIC	4.95	3.06	2.64
IR21834SPBFCT-ND	600V, Half-Bridge Driver*	14-SOIC	4.95	3.06	2.64
IR21834SPBFTR-ND	600V, Half-Bridge Driver*	14-SOIC	5570.00/2,500		
IRAMS06UP60B-ND	600V, 6A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	22.26	16.43	15.06
IRAMS10UP60A-ND	600V, 10A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	22.30	20.63	17.84
IRAMS10UP60B-ND	600V, 10A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	23.40	17.91	16.38
IRAMX16UP60A-ND	600V, 16A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	31.70	25.36	22.19
IRS2001PBF-ND	High and Low Side Driver*	8-Dip	2.38	1.36	1.19
IRS2001STRPBFCT-ND	High and Low Side Driver*	8-SOIC	2.45	1.40	1.23
IRS2001STRPBFTR-ND	High and Low Side Driver*	8-SOIC	2450.00/2,500		
IRS2003PBF-ND	Half-Bridge Driver*	8-Dip	2.38	1.36	1.19
IRS2003STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	2.45	1.40	1.23
IRS2003STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	2450.00/2,500		
IRS2004PBF-ND	Half-Bridge Driver*	8-Dip	2.38	1.36	1.19
IRS2004STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	2.45	1.40	1.23
IRS2004STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	2450.00/2,500		
IRS2101PBF-ND	High and Low Side Driver*	8-Dip	3.29	1.88	1.65
IRS2101SPBF-ND	High and Low Side Driver*	8-SOIC	3.00	1.85	1.60
IRS2101STRPBFCT-ND	High and Low Side Driver*	8-SOIC	3.06	1.89	1.64
IRS2101STRPBFTR-ND	High and Low Side Driver*	8-SOIC	3442.50/2,500		
IRS2103PBF-ND	Half-Bridge Driver*	8-Dip	3.29	1.88	1.65
IRS2103SPBF-ND	Half-Bridge Driver*	8-SOIC	3.00	1.85	1.60
IRS2103STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	3.06	1.89	1.64
IRS2103STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	3442.50/2,500		
IRS2104PBF-ND	Half-Bridge Driver*	8-Dip	3.29	1.88	1.65
IRS2104SPBF-ND	Half-Bridge Driver*	8-SOIC	3.00	1.85	1.60
IRS2104STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	3.06	1.89	1.64
IRS2104STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	3442.50/2,500		
IRS2106PBF-ND	High and Low Side Driver*	8-Dip	3.15	1.95	1.68
IRS2106SPBF-ND	High and Low Side Driver*	8-SOIC	3.15	1.95	1.68
IRS2106STRPBFCT-ND	High and Low Side Driver*	8-SOIC	3.21	1.98	1.72
IRS2106STRPBFTR-ND	High and Low Side Driver*	8-SOIC	3612.50/2,500		
IRS2108PBF-ND	Half-Bridge Driver*	8-Dip	3.27	2.02	1.75
IRS2108SPBF-ND	Half-Bridge Driver*	8-SOIC	3.27	2.02	1.75
IRS2108STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	3.33	2.06	1.78
IRS2108STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	3747.50/2,500		
IRS2110PBF-ND	High and Low Side Driver*	14-Dip	4.32	2.67	2.31
IRS2110SPBF-ND	High and Low Side Driver*	16-SOIC	4.50	2.78	2.40
IRS2110STRPBFCT-ND	High and Low Side Driver*	16-SOIC	4.56	2.82	2.44
IRS2110STRPBFTR-ND	High and Low Side Driver*	16-SOIC	2128.00/1,000		
IRS2111PBF-ND	Half-Bridge Driver*	8-Dip	3.18	1.97	1.70
IRS2111SPBF-ND	Half-Bridge Driver*	8-SOIC	3.33	2.06	1.78
IRS2111STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	3.39	2.10	1.81
IRS2111STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	3815.00/2,500		
IRS2112PBF-ND	High and Low Side Driver*	14-Dip	3.72	2.30	1.99
IRS2113PBF-ND	High and Low Side Driver*	14-Dip	4.83	2.98	2.58
IRS2113SPBF-ND	High and Low Side Driver*	16-SOIC	5.01	3.09	2.68
IRS2113STRPBFCT-ND	High and Low Side Driver*	16-SOIC	5.07	3.13	2.71
IRS2113STRPBFTR-ND	High and Low Side Driver*	16-SOIC	2366.00/1,000		
IRS2117PBF-ND	Single Channel Driver*	8-Dip	3.08	1.76	1.54
IRS2117SPBF-ND	Single Channel Driver*	8-SOIC	3.08	1.76	1.54
IRS2118PBF-ND	Single Channel Driver*	8-Dip	3.08	1.76	1.54
IRS2118SPBF-ND	Single Channel Driver*	8-SOIC	3.08	1.76	1.54
IRS2181PBF-ND	High and Low Side Driver*	8-Dip	3.60	2.22	1.92
IRS2181STRPBFCT-ND	High and Low Side Driver*	8-SOIC	3.81	2.35	2.04
IRS2181STRPBFTR-ND	High and Low Side Driver*	8-SOIC	4287.50/2,500		
IRS2183PBF-ND	Half-Bridge Driver*	8-Dip	3.60	2.22	1.92
IRS2183STRPBFCT-ND	Half-Bridge Driver*	8-SOIC	3.81	2.35	2.04
IRS2183STRPBFTR-ND	Half-Bridge Driver*	8-SOIC	4287.50/2,500		
IRS2186PBF-ND	High and Low Side Driver*	8-Dip	4.20	2.59	2.24
IRS2186STRPBFCT-ND	High and Low Side Driver*	8-SOIC	4.26	2.63	2.28
IRS2186STRPBFTR-ND	High and Low Side Driver*	8-SOIC	4792.50/2,500		
IRS2304PBF-ND	Half-Bridge Driver*	8-Dip	3.12	1.78	1.56
IRS2304SPBF-ND	Half-Bridge Driver*	8-SOIC	3.12	1.78	1.56
IRS2308PBF-ND	Half-Bridge Driver*	8-Dip	3.12	1.93	1.67
IRS2308SPBF-ND	Half-Bridge Driver*	8-SOIC	3.12	1.93	1.67
IRS2453DPBF-ND	Self-Oscillating Full-Bridge Driver*	14-Dip	4.20	2.59	2.24
IRS2453DSPBF-ND	Self-Oscillating Full-Bridge Driver*	14-SOIC	4.20	2.59	2.24
IRS2453DSTRPBFCT-ND	Self-Oscillating Full-Bridge Driver*	14-SOIC	4.26	2.63	2.28
IRS2453DSTRPBFTR-ND	Self-Oscillating Full-Bridge Driver*	14-SOIC	4792.50/2,500		
IRS2541PBF-ND	600V, LED Buck Regulator*	8-Dip	3.12	1.78	1.56
IRS2541STRPBFCT-ND	600V, LED Buck Regulator*	8-SOIC	3.19	1.82	1.60
IRS2541STRPBFTR-ND	600V, LED Buck Regulator*	8-SOIC	3185.00/2,500		
IRS20955SPBF-ND	Protected Digital Audio Driver*	16-SOIC	6.00	3.50	3.00
IRS21064SPBF-ND	High and Low Side Driver*	14-SOIC	3.33	2.06	1.78
IRS21064PBF-ND	High and Low Side Driver*	14-Dip	3.33	2.06	1.78
IRS21064STRPBFCT-ND	High and Low Side Driver*	14-SOIC	3.39	2.10	1.81
IRS21064STRPBFTR-ND	High and Low Side Driver*	14-SOIC	3815.00/2,500		
IRS21084PBF-ND	Half-Bridge Driver*	14-Dip	3.45	2.13	1.84
IRS21084SPBF-ND	Half-Bridge Driver*	14-SOIC	3.45	2.13	1.84
IRS21084STRPBFCT-ND	Half-Bridge Driver*	14-SOIC	3.51	2.17	1.88
IRS21084STRPBFTR-ND	Half-Bridge Driver*	14-SOIC	3950.00/2,500		
IRS21531DPBF-ND	Self-Oscillating Half-Bridge Driver*	8-Dip	3.19	1.82	1.60
IRS21531DSTRPBFCT-ND	Self-Oscillating Half-Bridge Driver*	8-SOIC	3.29	1.88	1.65
IRS21531DSTRPBFTR-ND	Self-Oscillating Half-Bridge Driver*	8-SOIC	3290.00/2,500		
IRS21814SPBF-ND	High and Low Side Driver*	14-SOIC	4.05	2.50	2.16
IRS21814STRPBFCT-ND	High and Low Side Driver*	14-SOIC	4.11	2.54	2.20
IRS21814STRPBFTR-ND	High and Low Side Driver*	14-SOIC	4625.00/2,500		
IRS21834SPBF-ND	Half-Bridge Driver*	14-SOIC	4.05	2.50	2.16
IRS21834STRPBFCT-ND	Half-Bridge Driver*	14-SOIC	4.11	2.54	2.20
IRS21834STRPBFTR-ND	Half-Bridge Driver*	14-SOIC	4625.00/2,500		
IRS21844SPBF-ND	Half-Bridge Driver*	14-SOIC	4.05	2.50	2.16
IRS21844STRPBFCT-ND	Half-Bridge Driver*	14-SOIC	4.11	2.54	2.20
IRS21844STRPBFTR-ND	Half-Bridge Driver*	14-SOIC	4625.00/2,500		
IRS21851STRPBFCT-ND	Single High Side Driver*	8-SOIC	3.87	2.39	2.07
IRS21851STRPBFTR-ND	Single High Side Driver*	8-SOIC	4355.00/2,500		
IRS21864PBF-ND	High and Low Side Driver*	14-Dip	4.98	3.08	2.66
IRS21864STRPBFCT-ND	High and Low Side Driver*	14-SOIC	5.04	3.11	2.69
IRS21864STRPBFTR-ND	High and Low Side Driver*	14-SOIC	5670.00/2,500		
IRSF3011-ND	Low Side Driver	TO-220AB	4.38	3.50	2.70
IRSF3021-ND	Low Side Driver	TO-220AB	4.13	3.30	2.54
IRSF3031-ND	Low Side Driver	TO-220AB	4.13	3.30	2.54
IPS1041LPBF-ND	Single Channel Intelligent Power Low Side Switch*	SOT-223	2.10	1.20	1.05
IPS1042GPBF-ND	Dual Channel Intelligent Power Low Side Switch*	8-SOIC	3.05	1.74	1.53
IPS1051LPBF-ND	Single Channel Intelligent Power Low Side Switch*	SOT-223	1.79	1.02	.90
IPS1052GPBF-ND	Dual Channel Intelligent Power Low Side Switch*	8-SOIC	2.63	1.50	1.32

Switching ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IPS2041LPBF-ND	Intelligent Power Low Side Switch*	SOT-223	2.56	1.46	1.28
IPS6011PBF-ND	Intelligent Power High Side Switch*	TO-220-5	6.63	4.09	3.54
IPS6011RPBF-ND	Intelligent Power High Side Switch*	DPAK-5	5.94	3.67	3.17
IPS6011SPBF-ND	Intelligent Power High Side Switch*	D2PAK-5	6.99	4.32	3.73
IPS6021PBF-ND	Intelligent Power High Side Switch*	TO-220-5	4.83	2.98	2.58
IPS6021RPBF-ND	Intelligent Power High Side Switch*	DPAK-5	4.11	2.54	2.20
IPS6021SPBF-ND	Intelligent Power High Side Switch*	D2PAK-5	5.13	3.17	2.74
IPS6031PBF-ND	Intelligent Power High Side Switch*	TO-220-5	3.87	2.39	2.07
IPS6031RPBF-ND	Intelligent Power High Side Switch*	DPAK-5	3.45	2.13	1.84
IPS6031SPBF-ND	Intelligent Power High Side Switch*	D2PAK-5	4.47	2.76	2.39
IPS6041GPBF-ND	Intelligent Power High Side Switch*	8-SOIC	2.42	1.38	1.21
IPS6041RPBF-ND	Intelligent Power High Side Switch*	DPAK-5	2.84	1.62	1.42
IPS7091GTRPBFCT-ND	Intelligent Power High Side Switch*	8-SOIC	3.19	1.82	1.60
IPS7091GTRPBFTR-ND	Intelligent Power High Side Switch*	8-SOIC	3185.00/2,500		
IR1150SCT-ND	One Cycle Control PFC	8-SOIC	3.00	1.85	1.60
IR1150STR-ND	One Cycle Control PFC	8-SOIC	3375.00/2,500		
IR1150SPBFCT-ND	One Cycle Control PFC*	8-SOIC	3.00	1.85	1.60
IR1150SPBFTR-ND	One Cycle Control PFC*	8-SOIC	3375.00/2,500		
IR2156PBF-ND	600V, 0.5A Ballast Control*	14-Dip	3.54	2.19	1.89
IR2156SPBFCT-ND	600V, 0.5A Ballast Control*	14-SOIC	3.75	2.32	2.00
IR2156SPBFTR-ND	600V, 0.5A Ballast Control*	14-SOIC	4220.00/2,500		
IR2166PBF-ND	600V, 500mA PFC and Ballast Control*	16-Dip	4.35	2.69	2.32
IR2166S-ND	600V, 500mA PFC and Ballast Control	16-SOIC	3.68	2.94	2.36
IR2171-ND	600V, 1mA Linear Current Sensing	8-Dip	6.25	4.29	3.75
IR2171S-ND	600V, 1mA Linear Current Sensing	8-SOIC	6.38	4.47	3.83
IR3313PBF-ND	Programmable Current Sense High Side Switch*	TO-220	6.06	3.54	3.24
IR3314PBF-ND	Programmable Current Sense High Side Switch*	TO-220	5.25	3.24	2.80
IR3314SPBF-ND	Programmable Current Sense High Side Switch*	D2-PAK	5.04	3.11	2.69
IR3315PBF-ND	Low EMI Current Sense High Side Switch*	TO-220	4.56	2.82	2.44
IR3315SPBF-ND	Low EMI Current Sense High Side Switch*	D2-PAK	4.32	2.67	2.31
IRPLLNR3-ND	Universal Input Linear Fluorescent Ballast using the IR2167	—	250.00	—	—
IRS2166DPBF-ND	600V, PFC/Ballast Control*	16-Dip	3.57	2.21	1.91
IRS2166DSPBF-ND	600V, PFC/Ballast Control*	16-SOIC	3.57	2.21	1.91
IRS2168DSTRPBFCT-ND	Advanced PFC/Ballast Controller*	16-SOIC	4.32	2.67	2.31
IRS2168DSTRPBFTR-ND	Advanced PFC/Ballast Controller*	16-SOIC	4860.00/2,500		
IRU1502-33CHCT-ND	Micropower LD PMOS Voltage Regulator, 1A	6-MLPM	1.05	.79	.62
IRU1502-33CHTR-ND	Micropower LD PMOS Voltage Regulator, 1A	6-MLPM	1470.00/3,000		

Reference Design Kits

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IRAC1166-100W-ND	Demo Board is a universal-input flyback converter with single DC output capable of delivering continuous 100W during active rectification mode*	—	280.00	—	—
IRADK31-ND	1/4 HP DC Brushless Motor using IR31xx Design Kit	—	292.49	—	—
IRAUDAMP4-ND	2-Channel 120W Half-Bridge Class D Audio Power Amp	—	797.50	—	—
IRDC3065-ND	Design Kit for Low Power On Board Switching Regulators	—	250.00	—	—
IRDC3621-ND	Reference Board Designed for Dual Output Configuration	—	250.00	—	—
IRDC3622D-ND	Evaluation Board with IR3622MPBF, Dual Output*	—	192.00	—	—
IRDC3622S-ND	Evaluation Board with IR3622MPBF, Current Sharing*	—	192.00	—	—
IRDC3637-ND	Reference Board for 1.8V Output using 5V, 12V Supplies	—	225.00	—	—
IRDC3651-ND	Evaluation Board for IR3651, High Voltage PWM Controller	—	192.00	—	—
IRDC5001-LS48V-ND	OR-ing Demo Board Demonstrates the IR5001 Functions	—	250.00	—	—
IRMD2214SS-ND	Evaluation Board for IR2214SS	—	300.00	—	—
IRMD22141SS-ND	Evaluation Board for IR22141SS	—	300.00	—	—
IRPLLNR7-ND	Universal Input Linear Fluorescent Ballast using IRS2166D	—	320.00	—	—

LDO REGULATORS/ SWITCHING CONTROLLERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IR2167S-ND	PFC Ballast Control IC	20-SOIC	6.83	4.61	4.16
IR21592S-ND	Dimming Ballast Control IC	16-SOIC	5.69	3.84	3.46
IR3088AMCT-ND	XPHASE™ IC with Fault and Overtemp Detect	20L-MLPQ	4.05	2.70	2.16
IR3088AMTRPBFCT-ND	XPHASE™ IC with Fault and Overtemp Detect* ***NEW!***	20L-MLPQ	4.05	2.50	2.16
IR3088AMTRPBFTR-ND	XPHASE™ IC with Fault and Overtemp Detect* ***NEW!***	20L-MLPQ	5469.00/3,000		
IR3621FCT-ND	2-Phase, Dual Synchronous PWM Controller	28-TSSOP	4.35	2.69	2.32
IR3621FTR-ND	2-Phase, Dual Synchronous PWM Controller	28-TSSOP	4712.50/2,500		
IR3621MCT-ND	2-Phase, Dual Synchronous PWM Controller	32-MLPQ	4.35	2.69	2.32
IR3621MTR-ND	2-Phase, Dual Synchronous PWM Controller	32-MLPQ	5874.00/3,000		
IR3624MPBFCT-ND	High Frequency Synchronous PWM Buck Controller*	10-MLPD	2.31	1.32	1.16
IR3637SPBF-ND	1% Accurate Synchronous PWM Controller*	8-SOIC	1.97	1.16	.99
IR3637STRPBFCT-ND	1% Accurate Synchronous PWM Controller* ***NEW!***	8-SOIC	2.03	1.16	1.02
IR3637STRPBFTR-ND	1% Accurate Synchronous PWM Controller* ***NEW!***	8-SOIC	2030.00/2,500		
IR5001S-ND	Universal Active OR-ing Controller	8-SOIC	2.41	1.48	1.26
IR5001SCT-ND	Universal Active OR-ing Controller	8-SOIC	2.59	1.48	1.30

** RoHS Compliant*

(Continued)

International IOR Rectifier — Digi-Reel® — LDO REGULATORS/ SWITCHING CONTROLLERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IR5001STR-ND	Universal Active OR-ing Controller	8-SOIC	2590.00/2,500		
IRU431LCL5CT-ND	Low Voltage Adjustable Precision Shunt Regulator	SOT-23-5	1.14	.55	.46
IRU1010CD-ND	1.0A, Adjustable Low Dropout Regulator	D-PAK	1.26	1.12	1.00
IRU1010CP-ND	1.0A, Adjustable Low Dropout Regulator	2-Pin Power Flex	1.72	.95	.78
IRU1010CS-ND	1.0A, Adjustable Low Dropout Regulator	8-SOIC	1.24	.69	.57
IRU1010-18CP-ND	1.8V, 1.0A Low Dropout Regulator	2-Pin Power Flex	1.72	.95	.78
IRU1010-18CS-ND	1.8V, 1.0A Low Dropout Regulator	8-SOIC	1.24	.69	.57
IRU1010-25CP-ND	2.5V, 1.0A Low Dropout Regulator	2-Pin Power Flex	1.72	.95	.78
IRU1010-25CS-ND	2.5V, 1.0A Low Dropout Regulator	8-SOIC	1.24	.69	.57
IRU1015CD-ND	1.5A Adjustable Low Dropout Regulator	D-PAK	1.43	1.27	1.09
IRU1015CMCT-ND	1.5A Low Dropout Positive Adjustable Regulator	TO-263	2.38	1.30	1.16
IRU1015-33CP-ND	3.3V, 1.5A Low Dropout Regulator	Ultra Thin-PAK	1.28	1.15	.98
IRU1050CD-ND	5.0A, Adjustable Regulator	D-PAK	.90	.81	.72
IRU1050CM-ND	5.0A, Adjustable Regulator	TO-263	1.72	1.70	1.38
IRU1050CP-ND	5.0A, Adjustable Regulator	2-Pin Power Flex	1.28	1.15	1.02
IRU1050CT-ND	5.0A, Adjustable Regulator	TO-220	1.78	1.59	1.43
IRU1050-33CP-ND	3.3V, 5.0A Low Dropout Regulator	2-Pin Power Flex	1.28	1.15	.97
IRU1050-33CT-ND	3.3V, 5.0A Low Dropout Regulator	TO-220	1.76	1.57	1.34
IRU1075CM-ND	7.5A, Adjustable Low Dropout Regulator	TO-263	2.48	2.23	1.99
IRU1075CMTR-ND	7.5A, Adjustable Low Dropout Regulator	TO-263	720.00/750		
IRU1075CP-ND	7.5A, Adjustable Low Dropout Regulator	3-Pin Power Flex	2.54	2.29	2.04
IRU1117CD-ND	800mA Low Dropout Positive Adjustable Regulator	TO-252	2.01	1.06	.93
IRU1117-18CP-ND	800mA Low Dropout Positive Fixed 1.8V Regulator	Ultra Thin-Pak	1.72	.93	.78
IRU1117-25CD-ND	800mA Low Dropout Positive Fixed 2.5V Regulator	TO-252	2.01	1.06	.93
IRU1117-25CP-ND	800mA Low Dropout Positive Fixed 2.5V Regulator	Ultra Thin-Pak	1.52	.82	.69
IRU1117-33CP-ND	800mA Low Dropout Positive Fixed 3.3V Regulator	Ultra Thin-Pak	1.52	.82	.69
IRU1160CPTR-ND	6.0A, Adjustable Regulator	5-Pin Power Flex	2772.00/2,000		
IRU1175CMCT-ND	7.5A, Adjustable Positive Voltage Regulator	TO-263-5	3.50	2.63	2.05
IRU1175CMTR-ND	7.5A, Adjustable Positive Voltage Regulator	TO-263-5	1269.11/750		
IRU1207-18CS-ND	1.8V, 1.0A Very Low Dropout Regulator	8-SOIC	1.38	1.24	1.02
IRU1260CPTR-ND	Dual Adjustable 6A/1A Low Dropout Regulator	7-Pin Power Flex	2783.20/2,000		
IRU1261CPTR-ND	Dual Low Dropout Regulator 1.5 V/6A and 2.5 V/1A	Ultra Thin-PAK-5	2783.20/2,000		
IRU3007CW-ND	5-Bit Programmable Sync. Buck Controller with Dual LDO Controller	28-SOIC(W)	6.48	5.77	4.80
IRU3011CW-ND	5-Bit Programmable Sync. Buck Controller	20-SOIC(W)	4.60	4.10	3.41
IRU3018CW-ND	5-Bit Programmable Sync. Buck Controller with Dual LDO Controller	24-SOIC(W)	6.08	5.41	4.50
IRU3033CS-ND	Pulse Width Modulation Switcher/Linear Controller	8-SOIC(N)	2.20	1.96	1.63
IRU3033CSTR-ND	Pulse Width Modulation Switcher/Linear Controller	8-SOIC(N)	3150.00/2,500		
IRU3034CS-ND	PWM Switcher/Controller with Short Circuit Protection	8-SOIC	4.60	4.10	3.41
IRU3034CSTR-ND	PWM Switcher/Controller with Short Circuit Protection	8-SOIC	3150.00/2,500		
IRU3037ACF-ND	Synchronous PWM Controller	8-TSSOP	3.19	1.82	1.60
IRU3037CFTR-ND	Synchronous PWM Controller	8-TSSOP	3185.00/2,500		
IRU3037CS-ND	Synchronous PWM Controller	8-SOIC	2.30	1.56	1.22
IRU3037CSPBFCT-ND	Synchronous PWM Controller*	8-SOIC	2.77	1.58	1.39
IRU3037CSPBFTR-ND	Synchronous PWM Controller*	8-SOIC	2865.00/2,500		
IRU3038CF-ND	Synchronous PWM Controller	14-TSSOP	2.28	1.32	1.13
IRU3038CS-ND	Synchronous PWM Controller	14-SOIC	1.96	1.13	.96
IRU3038CSTR-ND	Synchronous PWM Controller	14-SOIC	2415.00/2,500		
IRU3046CFCT-ND	Dual Synchronous PWM Controller	24-TSSOP	3.57	2.38	2.03
IRU3047CWCT-ND	Dual Synchronous PWM Controller	20-SOIC	3.27	2.18	1.86
IRU3047CWTR-ND	Dual Synchronous PWM Controller	20-SOIC	1526.00/1,000		
IRU3048CFCT-ND	Dual Synchronous PWM Controller	16-TSSOP	3.61	2.11	1.84
IRU3048CSCT-ND	Dual Synchronous PWM Controller	16-SOIC	3.12	2.08	1.77
IRU3055CQCT-ND	5-Bit Programmable 3-Phase Synchronous Buck Controller	36-QSOP	4.71	3.14	2.67
IRU3055CQTR-ND	5-Bit Programmable 3-Phase Synchronous Buck Controller	36-QSOP	3297.00/1,500		
IRU3065CLCT-ND	Positive to Negative DC/DC Controller	SOT-23-6	1.93	1.10	.97
IRU3073CQCT-ND	Synchronous PWM Controller with Low Dropout	16-QSOP	1.91	1.44	1.12
IRU3138CSCT-ND	Synchronous PWM Controller	14-SOIC	2.71	1.55	1.36
IRU3138CSTR-ND	Synchronous PWM Controller	14-SOIC	2705.50/2,500		
IRU3146CFCT-ND	Dual Synchronous PWM Controller	28-TSSOP	5.55	3.43	2.96
IRU3146CFTR-ND	Dual Synchronous PWM Controller	28-TSSOP	6012.50/2,500		

EPSON — APPLICATION SPECIFIC INTEGRATED CIRCUITS

Our LCD controllers feature high-performance, low power consumption. These LCD controllers can be used on a variety of CPUs. The product line up supports a wide range of LCD panels, including those from small to large scale and those from monochrome to color.

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Graphics					
S1D13A04B00B200-ND	112K Byte Embedded Memory LCD/USB Companion	121-PFBGA	12.98	12.11	11.25
S1D13A04F00A-ND	112K Byte Embedded Memory LCD/USB Companion*	128-TQFP	11.72	10.94	10.16
S1D13A05B00B200-ND	256K Byte Embedded Memory LCD/USB Companion	121-PFBGA	14.93	13.93	12.94
S1D13506F00A200-ND	Color CRT/LCD/TV Controller, 64K Colors	128-QFP	12.33	11.10	9.85
S1D13513B00B200-ND	Graphic LCD Controller*	256-PBGA	19.48	14.61	12.96
S1D13513F00A200-ND	Graphic LCD Controller*	208-QFP	18.26	13.70	12.15
S1D13706F00A200-ND	80K Byte Embedded Memory LCD Controller	100-TQFP	12.81	11.54	10.23
S1D13700F01A100-ND	32K Byte Embedded Memory B/W STN LCDC*	64-TQFP	8.52	6.82	5.76
S1D13700F02A100-ND	32K Byte Embedded Memory B/W STN LCDC*	64-TQFP	8.52	6.82	5.76
Graphic Evaluations					
S5U13A03P00C000-ND	SED13A3F0A Evaluation Board	—	577.50	—	—
S5U13U00P00C100-ND	USB Board Adapter for S5U13513P00C*	—	830.00	—	—
S5U13513P00C100-ND	S1D13513 Evaluation Board/Software*	—	525.00	—	—
S5U13706P00C000-ND	SED1376F0A Evaluation Board	—	577.50	—	—

The Application Specific Standard Product line-up includes ICs for high-speed serial interfaces, such as USB 2.0 and USB OTG, as well as the network controller family of products, which uses TCP/IP protocol to monitor and communicate between different hubs.

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ASSP					
USB OTG Controller					
S1R72005F00A100-ND	USB OTG Controller and PHY	64-QFP	9.92	7.94	6.70
USB 2.0 Controller					
S1R720G0F00A000-ND	USB 2.0 PHY	64-QFP	11.33	10.20	9.05
Network Controllers					
S1S65000F00A100-ND	Web Camera IC	128-QFP	18.00	16.80	15.60

The power supply ICs include DC to DC Converters, DC to DC Converters and Voltage Regulators, High Precision Voltage Detectors and Regulators, Power Supply ICs for passive and active LCDs, Power Supply ICs for Logic Switching Regulators.

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Power ICs					
S1F75510M0A010BCT-ND	Charge Pump DC/DC Converter and Voltage Regulator	24-SSOP	4.95	3.96	3.08
S1F75510M0A010BTR-ND	Charge Pump DC/DC Converter and Voltage Regulator	24-SSOP	8316.00/3,000		
S1F81150F0A2000-ND	System Power Supply - 6 Channel Regulator, Suitable for Intel Xscale	48-QFP	7.10	5.68	4.80

MAXIM — Digi-Reel® — AMPLIFIERS AND COMPARATORS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ICL7641ECPD-ND	Quad, Low Power, CMOS Op Amp	14-Dip	4.27	3.22	1.89
ICL7641ECPD+-ND	Quad, Low Power, CMOS Op Amp*	14-Dip	4.27	3.22	1.89
ICL7642ECPD-ND	Quad, Low Power, CMOS Op Amp	14-Dip	4.77	3.60	2.12
MAX407CPA+-ND	1.2µA Max., Dual, Single Supply Op Amp*	8-Dip	7.90	5.96	3.51
MAX407CSA+-ND	1.2µA Max., Dual, Single Supply Op Amp*	8-SOIC	7.90	5.96	3.99
MAX409BCPA-ND	1.2µA Single Supply Op Amp	8-Dip	4.88	3.68	2.37
MAX409BCSA+-ND	1.2µA Single Supply Op Amp*	8-SOIC	4.88	3.68	2.37
MAX410CSA+-ND	28MHz Low Noise Low Voltage Precision Op Amp*	8-SOIC	5.80	4.38	2.82
MAX414CPD+-ND	Low Noise Quad Op Amp*	14-Dip	12.40	9.36	5.50
MAX414CSD+-ND	Low Noise Quad Op Amp*	14-SOIC	12.40	9.36	6.00
MAX418CPD+-ND	1.2µA Quad Single Supply Op Amp*	14-Dip	9.96	7.52	4.82
MAX418CSD-ND	1.2µA Quad Single Supply Op Amp	14-SOIC	9.96	7.52	4.82
MAX420CPA+-ND	15V Chopper Stabilized Op Amp*	8-Dip	8.98	6.78	4.38
MAX452CPA-ND	50MHz CMOS Video Amplifier	8-Dip	6.76	5.10	3.00
MAX452CPA+-ND	50MHz CMOS Video Amplifier*	8-Dip	6.76	5.10	3.40
MAX453CPA+-ND	2-Channel 50MHz Video Multiplexer/Amp*	8-Dip	9.43	7.12	4.76
MAX454CPD+-ND	4-Channel 50MHz Video Multiplexer/Amp*	14-Dip	12.59	9.50	6.34
MAX454CSD+-ND	4-Channel 50MHz Video Multiplexer/Amp*	14-SOIC	13.86	10.46	6.98
MAX455CPP-ND	8-Channel 50MHz Video Multiplexer/Amp	20-Dip	20.96	15.82	10.56
MAX455CPP+-ND	8-Channel 50MHz Video Multiplexer/Amp*	20-Dip	20.96	15.82	10.56
MAX455CWP-ND	8-Channel 50MHz Video Multiplexer/Amp	20-SOIC	23.06	17.40	11.60
MAX456CPL-ND	8x8 Crosspoint Video Switch	40-Dip	50.03	37.76	24.20
MAX471CSA-ND	High-Side Current-Sense Precision Amp	8-SOIC	6.20	4.68	2.75
MAX479CSD+-ND	17µA Max Quad Single Supply Precision Op Amp*	14-SOIC	7.90	5.96	3.83
MAX492CPA+-ND	Single Supply Dual Op Amp*	8-Dip	5.57	4.20	2.69
MAX492CSA+-ND	Single Supply Dual Op Amp*	8-SOIC	5.57	4.20	2.69
MAX494CPD+-ND	Single Supply Quad Op Amp*	14-Dip	8.93	6.74	4.32
MAX494CSD+-ND	Single Supply Quad Op Amp*	14-SOIC	8.93	6.74	4.32
MAX495CPA-ND	Single Supply Op Amp	8-Dip	3.58	2.70	1.59
MAX495CPA+-ND	Single Supply Op Amp*	8-Dip	3.58	2.70	1.74
MAX495CSA+-ND	Single Supply Op Amp*	8-SOIC	3.58	2.70	1.74
MAX901BCSE+-ND	Quad High Speed Low Power, Voltage Comparator*	16-SOIC	12.40	9.36	6.00
MAX902CSD+-ND	Dual High Speed Low Power, Voltage Comparator*	14-SOIC	10.26	7.74	4.97
MAX907CPA+-ND	Dual High Speed Ultra Low Power, Single +5V, TTL Comp*	8-Dip	4.27	3.22	2.07
MAX907CSA+-ND	Dual High Speed Ultra Low Power, Single +5V, TTL Comp*	8-SOIC	4.27	3.22	2.07
MAX908CPD+-ND	Quad High Speed Ultra LP, Single +5V, TTL Comparator*	14-Dip	7.42	5.60	3.60
MAX913CPA+-ND	Single, Ultra-Fast, Low Power Precision TTL Comparator*	8-Dip	6.39	4.82	2.83
MAX913CSA+-ND	Single, Ultra-Fast, Low Power Precision TTL Comparator*	8-SOIC	6.36	4.80	2.83
MAX913ESA+-ND	Single, Ultra-Fast, Low Power Precision TTL Comparator*	8-SOIC	8.29	6.26	4.97
MAX921CSA+-ND	Low Power Comparator with Reference*	8-SOIC	3.98	3.00	1.92
MAX922CSA+-ND	Ultra Low Power, Single/Dual Supply Comparator*	8-SOIC	3.76	2.84	1.67
MAX923CSA+-ND	Dual Ultra Low Power, Single Supply Comparator with 1% Precision with Reference*	8-SOIC	4.88	3.68	2.37
MAX924CSE-ND	Quad Ultra Low Power, Single Supply Comparator with 1% Precision with Reference	16-SOIC	5.64	4.26	2.74
MAX924CSE+-ND	Quad Ultra Low Power, Single Supply Comparator with 1% Precision with Reference*	16-SOIC	5.64	4.26	2.74
MAX931CPA+-ND	Ultra Low Power Comparator*	8-Dip	2.46	1.86	1.20
MAX932CSA+-ND	Dual Ultra LP Single Supply Comparator with 2% Precision with Reference*	8-SOIC	3.15	2.38	1.53
MAX933CPA+-ND	Dual Ultra LP Single Supply Comparator with 2% Precision with Reference*	8-Dip	3.15	2.38	1.40
MAX934CSE+-ND	Quad Ultra LP Single Supply Comparator with 2% Precision with Reference*	16-SOIC	2.99	2.26	1.45
MAX941CSA+-ND	Single, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator*	8-SOIC	3.45	2.60	1.68
MAX941EUA+-ND	Single, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator*	8-µMAX	4.29	3.24	2.30
MAX942CSA+-ND	Dual, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator*	8-SOIC	3.71	2.80	1.80
MAX942ESA+-ND	Dual, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator*	8-SOIC	4.61	3.48	2.46
MAX944CSD+-ND	Quad, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator*	14-SOIC	6.15	4.64	2.98
MAX961ESA+-ND	+3V/+5V, Beyond-the-Rails Comparator*	8-SOIC	6.63	5.00	2.94
MAX964EEE+-ND	Quad, Ultra HS, +3V/+5V, Beyond-the-Rails Comparator*	16-QSOP	15.13	11.42	6.72
MAX969EEE+-ND	Quad, Micropower, Ultra Low Voltage, Rail-to-Rail, In/Out Comparator*	16-QSOP	5.09	3.84	2.70
MAX971CSA+-ND	Single, Ultra Low Power, Open-Output Comparator with 1% Accuracy*	8-SOIC	3.95	2.98	1.91
MAX975EUA+-ND	+3V/+5V Dual Speed Comparator with Auto Standby*	8-µMAX	5.17	3.90	2.50
MAX987EUK-TCT-ND	High Speed, Micropower, Low Voltage Rail-to-Rail In/Out Comparator	SOT-23-5	2.52	1.90	1.67
MAX987EUK-TTR-ND	High Speed, Micropower, Low Voltage Rail-to-Rail In/Out Comparator	SOT-23-5	3800.00/2,500		
MAX987EUK+TCT-ND	High Speed, Micropower, Low Voltage Rail-to-Rail In/Out Comparator*	SOT-23-5	2.52	1.90	1.67
MAX987EUK+TTR-ND	High Speed, Micropower, Low Voltage Rail-to-Rail In/Out Comparator*	SOT-23-5	3800.00/2,500		
MAX998EUT+TCT-ND	Single Supply, High Speed, Low Power Comparator*	SOT-23-6	6.44	4.86	4.26
MAX998EUT+TTR-ND	Single Supply, High Speed, Low Power Comparator*	SOT-23-6	9720.00/2,500		
MAX999EUK+TCT-ND	Single, Ultra High Speed, +3V/+5V, Beyond-the-Rails Comparator*	SOT-23-5	7.47	5.64	4.94
MAX999EUK+TTR-ND	Single, Ultra High Speed, +3V/+5V, Beyond-the-Rails Comparator*	SOT-23-5	11280.00/2,500		
MAX4126ESA+-ND	Dual, 5MHz, Single Supply Op Amp*	8-SOIC	3.74	2.82	1.81
MAX4127ESD-ND	Dual, 5MHz, Single Supply Op Amp with Shutdown	14-SOIC	4.43	3.34	2.14
MAX4127ESD+-ND	Dual, 5MHz, Single Supply Op Amp with Shutdown*	14-SOIC	4.43	3.34	1.96
MAX4128ESA-ND	Dual, 10V/µs, Single Supply Op Amp	8-SOIC	3.74	2.82	1.88
MAX4128EUA-ND	Dual, 10V/µs, Single Supply Op Amp	8-µMAX	3.98	3.00	1.77

***** *RoHS Compliant*

(Continued)

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AMPLIFIERS AND COMPARATORS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX4128EUA+-ND	Dual, 10V/µs, Single Supply Op Amp*	8-µMAX	3.98	3.00	1.77
MAX4129ESD+-ND	Quad, 5MHz, Single Supply Op Amp*	14-SOIC	6.36	4.80	3.08
MAX4131ESA+-ND	Single, 10MHz, Single Supply Op Amp with Shutdown*	8-SOIC	2.60	1.96	1.26
MAX4132ESA+-ND	Dual, 10MHz, Single Supply Op Amp*	8-SOIC	3.74	2.82	1.81
MAX4134ESD+-ND	Quad, 10MHz, Single Supply Op Amp*	14-SOIC	6.36	4.80	3.08
MAX4162ESA+-ND	10V, Micropower, Rail-to-Rail Input/Output Op Amp*	8-SOIC	2.65	2.00	1.18
MAX4162EUK+TCT-ND	10V, Micropower, Rail-to-Rail Input/Output Op Amp*	SOT-23-5	3.47	2.62	2.30
MAX4162EUK+TTR-ND	10V, Micropower, Rail-to-Rail Input/Output Op Amp*	SOT-23-5	5240.00/2,500		
MAX4163ESA+-ND	10V, Micropower, Rail-to-Rail Input/Output Dual Op Amp*	8-SOIC	3.31	2.50	1.47
MAX4172ESA+-ND	High-Side Current Sense Amplifier*	8-SOIC	3.84	2.90	1.87
MAX4172EUA+-ND	High-Side Current Sense Amplifier*	8-µMAX	3.52	2.66	1.71
MAX4173FESA+-ND	Voltage-Output, High-Side Current-Sense Amp*	8-SOIC	1.88	1.42	.84
MAX4173HESA+-ND	Voltage-Output, High-Side Current-Sense Amp*	8-SOIC	1.88	1.42	.84
MAX4173TESA+-ND	Voltage-Output, High-Side Current-Sense Amp*	8-SOIC	1.88	1.42	.84
MAX4194ESA+-ND	Variable-Gain Precision Instrumentation Amp*	8-SOIC	4.03	3.04	1.78
MAX4220EEE-ND	High-Speed Single Supply Rail-to-Rail Quad Op Amp	16-QSOP	10.49	7.92	5.08
MAX4220EEE+-ND	High-Speed Single Supply Rail-to-Rail Quad Op Amp*	16-QSOP	10.49	7.92	4.65
MAX4220ESD-ND	High-Speed Single Supply Rail-to-Rail Quad Op Amp	14-SOIC	10.49	7.92	5.08
MAX4222ESD+-ND	High-Speed, Single Supply Gain of 2, Closed-Loop Rail-to-Rail Buffer*	14-SOIC	9.01	6.80	4.00
MAX4242ESA+-ND	Dual 1.8V, Beyond-the-Rails Op Amp*	8-SOIC	3.45	2.60	1.53
MAX4252ESA+-ND	UCSP, Single Supply, Low Noise, Low Distortion, Rail-to-Rail Op Amp*	8-SOIC	3.18	2.40	2.15
MAX4310ESA+-ND	High Speed, Low Power, Dual Video Mux Amp*	8-SOIC	5.51	4.16	2.45
MAX4311ESD+-ND	High Speed, Low Power, Quad Video Mux Amp*	14-SOIC	7.39	5.58	3.28
MAX4314ESD+-ND	High Speed, Low Power, Quad Video Mux Amp*	14-SOIC	7.39	5.58	3.28
MAX4357ECD+D-ND	32x16 Nonblocking Video Crosspoint Switch with In/Out Buffers*	128-TQFP	125.11	94.42	—
MAX4372FEUK+TCT-ND	50V/V, Micropower, High-Side Current-Sense Amp*	SOT-23-5	1.88	1.42	1.25
MAX4372FEUK+TTR-ND	50V/V, Micropower, High-Side Current-Sense Amp*	SOT-23-5	2840.00/2,500		
MAX4372TEUK+TCT-ND	20V/V, Micropower, High-Side Current-Sense Amp*	SOT-23-5	1.88	1.42	1.25
MAX4372TEUK+TTR-ND	20V/V, Micropower, High-Side Current-Sense Amp*	SOT-23-5	2840.00/2,500		
MAX4373FEUA+-ND	Micropower, High-Side Current-Sense Amp/Comparator/Reference*	8-µMAX	2.94	2.22	1.31
MAX4373TESA+-ND	Micropower, High-Side Current-Sense Amp/Comparator/Reference*	8-SOIC	2.94	2.22	1.31
MAX4373TEUA-ND	Micropower, High-Side Current-Sense Amp/Comparator/Reference	8-µMAX	2.94	2.22	1.31
MAX4373TEUA+-ND	Micropower, High-Side Current-Sense Amp/Comparator/Reference*	8-µMAX	2.94	2.22	1.31
MAX4389EXT+TCT-ND	85MHz Op Amp with Rail-to-Rail Output*	SC70-6	1.35	1.02	.90
MAX4389EXT+TTR-ND	85MHz Op Amp with Rail-to-Rail Output*	SC70-6	2040.00/2,500		
MAX4390EXT+TCT-ND	85MHz Op Amp with Rail-to-Rail Output*	SC70-6	1.27	.96	.84
MAX4390EXT+TTR-ND	85MHz Op Amp with Rail-to-Rail Output*	SC70-6	1920.00/2,500		
MAX4392EUA+TCT-ND	85MHz Op Amp with Rail-to-Rail Output*	8-µMAX	1.91	1.44	1.26
MAX4392EUA+TTR-ND	85MHz Op Amp with Rail-to-Rail Output*	8-µMAX	2880.00/2,500		
MAX4393EUB+TCT-ND	85MHz Op Amp with Rail-to-Rail Output*	10-µMAX	2.04	1.54	1.35
MAX4393EUB+TTR-ND	85MHz Op Amp with Rail-to-Rail Output*	10-µMAX	3080.00/2,500		
MAX4394ESD+TCT-ND	85MHz Op Amp with Rail-to-Rail Output*	14-SOIC	2.44	1.84	1.61
MAX4394ESD+TTR-ND	85MHz Op Amp with Rail-to-Rail Output*	14-SOIC	3680.00/2,500		
MAX4395ESD+TCT-ND	85MHz Op Amp with Rail-to-Rail Output*	14-SOIC	2.81	2.12	1.86
MAX4395ESD+TTR-ND	85MHz Op Amp with Rail-to-Rail Output*	14-SOIC	4240.00/2,500		
MAX4396EUP+TCT-ND	85MHz Op Amp with Rail-to-Rail Output*	20-TSSOP	3.05	2.30	2.02
MAX4396EUP+TTR-ND	85MHz Op Amp with Rail-to-Rail Output*	20-TSSOP	4600.00/2,500		
MAX4412EUK+TCT-ND	3V/5V, 500MHz, Single Supply Op Amp with R/R Output*	SOT-23-5	2.76	2.08	1.82
MAX4412EUK+TTR-ND	3V/5V, 500MHz, Single Supply Op Amp with R/R Output*	SOT-23-5	4160.00/2,500		
MAX9031AUK+TCT-ND	Single Supply Comparator*	SOT-23-5	.87	.66	.58
MAX9031AUK+TTR-ND	Single Supply Comparator*	SOT-23-5	1320.00/2,500		
MAX9144ESD+-ND	40nS, Low Power, Quad, 3V/5V, Rail-to-Rail Comparator*	14-SOIC	3.21	2.73	2.17
MAX9502GEXK+TCT-ND	2.5V Video Amp with Reconstruction Filter*	SC70-5	1.17	.88	.77
MAX9502GEXK+TTR-ND	2.5V Video Amp with Reconstruction Filter*	SC70-5	1760.00/2,500		
MAX9502GELT+TCT-ND	2.5V Video Amp with Reconstruction Filter*	6-µDFN	1.22	.92	.81
MAX9502GELT+TTR-ND	2.5V Video Amp with Reconstruction Filter*	6-µDFN	1840.00/2,500		
MAX9503GETE+TCT-ND	DirectDrive Video Amp with Reconstruction Filter*	16-TQFN	1.70	1.28	1.12
MAX9503GETE+TTR-ND	DirectDrive Video Amp with Reconstruction Filter*	16-TQFN	2560.00/2,500		
MAX9503GEEE+TCT-ND	DirectDrive Video Amp with Reconstruction Filter*	16-QSOP	1.56	1.18	1.04
MAX9503GEEE+TTR-ND	DirectDrive Video Amp with Reconstruction Filter*	16-QSOP	2360.00/2,500		
MAX9505ETE+TCT-ND	DirectDrive Video Amp with Reconstruction Filter*	16-TQFN	2.04	1.54	1.35
MAX9505ETE+TTR-ND	DirectDrive Video Amp with Reconstruction Filter*	16-TQFN	3080.00/2,500		
MAX9709ETN+D-ND	25W/50W, Filterless, Spread-Spectrum, Stereo/Mono Class D Amp* ***NEW!***	56-TQFN	9.14	6.90	4.04

DATA CONVERSION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX110ACPE-ND	2-Channel, ±14-Bit Serial ADC	16-Dip	18.21	13.74	8.81
MAX110BCWE+-ND	2-Channel, ±14-Bit Serial ADC*	16-SOIC	13.97	10.54	6.77
MAX114CAG+-ND	5V, 4-Channel, 8-Bit ADC with 1µA Power-Down*	24-SSOP	10.23	7.72	4.54
MAX117CPI-ND	3V, 8-Channel, 8-Bit Parallel Output ADC	28-Dip	10.97	8.28	5.32
MAX120CNG-ND	500Ksps, 12-Bit ADC with Track/Hold and Reference	24-Dip	44.04	33.24	21.31
MAX120CNG+-ND	500Ksps, 12-Bit ADC with Track/Hold and Reference*	24-Dip	44.04	33.24	21.31
MAX121CPE+-ND	308Ksps ADC with DSP 78dB Interface/Serial ADC*	16-Dip	34.95	26.38	15.83
MAX121CWE+-ND	308Ksps ADC with DSP 78dB Interface/Serial ADC*	16-SOIC	34.95	26.38	16.92
MAX132CNG+-ND	ADC with Serial Interface*	24-Dip	22.00	16.60	10.65
MAX132CWG+-ND	ADC with Serial Interface*	24-SOIC	22.00	16.60	10.65
MAX133CPL-ND	3-3/4 Digit DMM Circuit	40-Dip	24.62	18.58	11.91
MAX135CPI+-ND	15-Bit Low Power ADC with Parallel Interface*	28-Dip	22.00	16.60	10.66
MAX135CWI+-ND	15-Bit Low Power ADC with Parallel Interface*	28-SOIC	22.00	16.60	10.65
MAX138CPL+-ND	3-1/2 Digit ADC with Bandgap Ref. and Charge Pump Volt Converter and LCD Driver*	40-Dip	21.28	16.06	10.72
MAX146ACAP-ND	2.7 to 3.6V, Low Power 12-Bit, 8-Channel Serial ADC	20-SSOP	25.12	18.96	11.16
MAX146ACAP+-ND	2.7 to 3.6V, Low Power 12-Bit, 8-Channel Serial ADC*	20-SSOP	25.12	18.96	11.15
MAX146BEAP+-ND	2.7 to 3.6V, Low Power 12-Bit, 8-Channel Serial ADC*	20-SSOP	25.12	18.96	11.15
MAX147BCAP+-ND	2.7V Low Power 12-Bit 8-Channel Serial ADC*	20-SSOP	15.37	11.60	7.44
MAX147BCPP-ND	2.7V Low Power 12-Bit 8-Channel Serial ADC	20-Dip	15.37	11.60	7.44
MAX147BCPP+-ND	2.7V Low Power 12-Bit 8-Channel Serial ADC*	20-Dip	15.37	11.60	7.44
MAX148BCAP-ND	2.7V Low Power 10-Bit 8-Channel Serial ADC	20-SSOP	8.82	6.66	4.27
MAX148BCAP+-ND	2.7V Low Power 10-Bit 8-Channel Serial ADC*	20-SSOP	8.82	6.66	4.27
MAX153CPP+-ND	1Msps, µP-Compatible, 8-Bit ADC with Power Down*	20-Dip	18.26	13.78	8.84
MAX154ACNG-ND	4-Channel ADC with Track and Hold	24-Dip	35.75	26.98	17.30
MAX154BCNG+-ND	4-Channel ADC with Track and Hold*	24-Dip	25.86	19.52	11.48
MAX158ACPI-ND	8-Channel ADC with Track and Hold	28-Dip	37.02	27.94	17.92
MAX158ACWI-ND	8-Channel ADC with Track and Hold	28-SOIC	37.02	27.94	17.92
MAX158BCPI-ND	8-Channel ADC with Track and Hold	28-Dip	27.11	20.46	13.12
MAX158BCWI-ND	8-Channel ADC with Track and Hold	28-SOIC	27.11	20.46	13.12
MAX165BCPN-ND	CMOS µP Compatible 5µS 8-Bit ADC with Track Hold and Reference	18-Dip	11.24	8.48	5.44
MAX165BCPN+-ND	CMOS µP Compatible 5µS 8-Bit ADC with Track Hold and Reference*	18-Dip	11.24	8.48	5.44
MAX166BCPP-ND	Differential Input, 5µS, 8-Bit ADC with Track Hold and Reference	20-Dip	11.98	9.04	5.80
MAX172BCNG+-ND	Complete 10µS CMOS 12-Bit ADC*	24-Dip	29.71	22.42	14.38
MAX174CCPI-ND	12-Bit ADC with Reference	28-Dip	87.05	65.70	46.94
MAX174CCPI+-ND	12-Bit ADC with Reference*	28-Dip	87.05	65.70	38.64
MAX176BCPA+-ND	Serial Output, 12-Bit 250Ksps ADC*	8-Dip	36.31	27.40	17.57
MAX180ACQH+D-ND	8-Channel 12-Bit Data Acquisition System*	44-PLCC	60.76	45.86	28.67
MAX180BCPL+-ND	8-Channel 12-Bit Data Acquisition System*	40-Dip	53.77	40.58	23.88
MAX186BCPP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-Dip	35.75	26.98	17.30
MAX186BEAP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-SSOP	48.81	36.84	29.26
MAX186BCWP-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference	20-SOIC	35.75	26.98	15.88
MAX186BCWP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-SOIC	35.75	26.98	17.30
MAX186DCPP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-Dip	23.59	17.80	11.41
MAX186DCWP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-SOIC	23.59	17.80	11.41
MAX187BCPA+-ND	Low Power 12-Bit Serial ADC with Track and Hold*	8-Dip	21.76	16.42	10.95
MAX187BCWE+-ND	Low Power 12-Bit Serial ADC with Track and Hold*	16-SOIC	21.76	16.42	10.53
MAX188BCPP-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference	20-Dip	32.70	24.68	15.82
MAX188BCPP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-Dip	32.70	24.68	15.82
MAX188BCWP-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference	20-SOIC	32.70	24.68	15.82
MAX188DCPP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-Dip	22.26	16.80	10.78
MAX188DCWP-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference	20-SOIC	22.26	16.80	10.78
MAX188DCWP+-ND	Low Power 8-Channel Serial 12-Bit ADC with Reference*	20-SOIC	22.26	16.80	10.78
MAX189CCPA+-ND	5V Low Power 12-Bit Serial A/D Converter*	8-Dip	18.31	13.82	8.86
MAX191BCNG+-ND	Low Power, 12-Bit ADC with Reference*	24-Dip	26.42	19.94	11.73
MAX191BCWG+-ND	Low Power, 12-Bit Sampling ADC with Internal Reference/ Power Down*	24-SOIC	26.42	19.94	12.79
MAX192BCWP+-ND	Low Power 8-Channel 10-Bit, 133kHz ADC*	20-SOIC	16.96	12.80	8.20
MAX194BCWE+-ND	14-Bit, 85Ksps ADC with 10µA Shutdown*	16-SOIC	40.31	30.42	19.50
MAX195BCPE+-ND	16-Bit, 85Ksps ADC with 10µA Shutdown*	16-Dip	74.28	56.06	35.94
MAX195BCWE-ND	16-Bit, 85Ksps ADC with 10µA Shutdown	16-SOIC	74.28	56.06	32.97
MAX195BCWE+-ND	16-Bit, 85Ksps ADC with 10µA Shutdown*	16-SOIC	74.28	56.06	35.94
MAX195BEWE+-ND	16-Bit, 85Ksps ADC with 10µA Shutdown*	16-SOIC	96.57	72.88	42.86
MAX196BCAI+-ND	6-Channel Multi-Range 12-Bit ADC Parallel Interface*	28-SSOP	31.08	23.46	13.80
MAX196BCNI+-ND	6-Channel Multi-Range 12-Bit ADC Parallel Interface*	28-Dip	29.92	22.58	14.47
MAX197ACWI+-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface*	28-SOIC	38.85	29.32	17.60
MAX197BCAI+-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface*	28-SSOP	31.08	23.46	15.05
MAX197BCNI+-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface*	28-Dip	29.92	22.58	14.47
MAX500BCPE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-Dip	14.73	11.12	7.13
MAX500BCWE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-SOIC	14.73	11.12	7.13
MAX501BCNG+-ND	Voltage Output, 12-Bit Multiplying DAC*	24-Dip	15.42	11.64	6.85
MAX503CWG+-ND	5V Low Power Parallel Input Voltage Output 10-Bit DAC*	24-SOIC	9.06	6.84	4.39
MAX504CPD+-ND	5V Low Power Voltage Output Serial 10-Bit DAC*	14-Dip	8.61	6.50	4.17
MAX504CSD+-ND	5V Low Power Voltage Output Serial 10-Bit DAC*	14-SOIC	8.61	6.50	4.17
MAX505ACWG+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 4 Separate Reference Inputs*	24-SOIC	25.28	19.08	12.24
MAX505BCNG-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 4 Separate Reference Inputs	24-Dip	19.48	14.70	9.42
MAX505BCNG+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 4 Separate Reference Inputs*	24-Dip	19.48	14.70	9.42
MAX506ACWP+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 1 Reference Input*	20-SOIC	22.18	16.74	13.30
MAX506BCPP+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 1 Reference Input*	20-Dip	17.07	12.88	8.26
MAX506BCWP+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 1 Reference Input*	20-SOIC	17.07	12.88	8.26
MAX507BCNG-ND	Parallel Voltage Output, 12-Bit DAC with Internal Reference	24-Dip	19.95	15.06	9.67
MAX507BCNG+-ND	Parallel Voltage Output, 12-Bit DAC with Internal Reference*	24-Dip	19.95	15.06	9.67
MAX507BCWG+-ND	Parallel Voltage Output, 12-Bit DAC with Internal Reference*	24-SOIC	19.95	15.06	9.67
MAX508BCPP+-ND	12-Bit DAC with Internal Reference, (8+4) Voltage Output*	20-Dip	19.95	15.06	9.67
MAX508BCWP+-ND	12-Bit DAC with Internal Reference, (8+4) Voltage Output*	20-SOIC	21.76	16.42	10.54
MAX509BCPP+-ND	Quad Serial Input 8-Bit D/A Converter*	20-Dip	13.70	10.34	6.64
MAX509BCWP+-ND	Quad Serial Input 8-Bit D/A Converter*	20-SOIC	14.95	11.28	7.24
MAX510BCPE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-Dip	14.47	10.92	7.01
MAX510BCWE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-SOIC	14.47	10.92	7.01
MAX512CSD+-ND	8-Bit Voltage Out D/A Converter*	14-SOIC	8.22	6.20	3.98
MAX514BCNG+-ND	Quad CMOS 12-Bit Serial Input Mult. D/A Converter*	24-Dip	38.88	29.34	17.25
MAX517BCPA+-ND	Single 8-Bit R/R DAC with 2-Wire Serial Interface*	8-Dip	6.15	4.64	2.98
MAX517BCSA+-ND	Single 8-Bit R/R DAC with 2-Wire Serial Interface*	8-SOIC	6.15	4.64	2.98
MAX518BCPA+-ND	Dual 8-Bit R/R DAC with 2-Wire Serial Interface*	8-Dip	6.04	4.56	2.93
MAX518BCSA+-ND	Dual 8-Bit R/R DAC with 2-Wire Serial Interface*	8-SOIC	6.60	4.98	3.20
MAX520BCPE-ND	Quad 8-Bit DAC with 2-Wire Interface Serial Unbuffered Output	16-Dip	9.28	7.00	4.50
MAX520BCPE+-ND	Quad 8-Bit DAC w/2-Wire Interface Serial Unbuffered Output*	16-Dip	9.28	7.00	4.50
MAX520BCWE-ND	Quad 8-Bit DAC w/2-Wire Interface Serial Unbuffered Output	16-SOIC	9.28	7.00	4.50
MAX521ACAG-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface	24-SSOP	19.32	14.58	8.58
MAX521ACAG+-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface*	24-SSOP	19.32	14.58	8.58
MAX521AEAG-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface	24-SSOP	25.12	18.96	11.16
MAX521BCPP-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface	20-Dip	14.31	10.80	6.93
MAX521BCPP+-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface*	20-Dip	14.31	10.80	6.93
MAX522CPA+-ND	Dual 8-Bit Voltage Out Serial D/A Converter*	8-Dip	6.04	4.56	2.93
MAX522CSA+-ND	Dual 8-Bit Voltage Out Serial D/A Converter*	8-SOIC	6.60	4.98	3.20
MAX525ACAP+-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter*	20-SSOP	47.70	36.00	21.18
MAX525BCAP+-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter*	20-SSOP	36.68	27.68	17.75
MAX525BCPP-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter	20-Dip	33.66	25.40	16.29
MAX525BCPP+-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter*	20-Dip	36.68	27.68	17.75
MAX526DCNG+-ND	Quad 12-Bit Voltage Output D/A Converter*	24-Dip	53.05	40.04	23.54
MAX526DCWG+-ND	Quad 12-Bit Voltage Output D/A Converter*	24-SOIC	53.05	40.04	25.67
MAX527DCNG+-ND	Calibrated Quad 12-Bit Voltage Output D/A Converter*	24-Dip	45.18	34.10	20.06
MAX527DCWG+-ND	Calibrated Quad 12-Bit Voltage Output D/A Converter*	24-SOIC	45.18	34.10	21.87
MAX528CPP+-ND	Octal 8-Bit Serial D/A Converter with Output Buffer*	20-Dip	18.42	13.90	8.92
MAX529CPP-ND	±5V Octal 8-Bit Serial D/A Converter with Output Buffer	20-Dip	15.42	11.64	7.76
MAX529CPP+-ND	±5V Octal 8-Bit Serial D/A Converter with Output Buffer*	20-Dip	14.15	10.68	6.85
MAX529CWG+-ND	±5V Octal 8-Bit Serial D/A Converter with Output Buffer*	24-SOIC	15.42	11.64	7.76
MAX530BCWG+-ND	5V Low Power Voltage Out 12-Bit D/A Converter*	24-SOIC	15.53	11.72	7.53

** RoHS Compliant*

(Continued)

MAXIM DigiReel® DATA CONVERSION *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX531BCPD+-ND	5V Voltage Out 12-Bit Serial D/A Converter*	14-Dip	15.53	11.72	7.53
MAX531BCSD+-ND	5V Voltage Out 12-Bit Serial D/A Converter*	14-SOIC	15.53	11.72	7.53
MAX532BCPE+-ND	Dual, Serial In, Voltage Out, 12-Bit Multiplying DAC*	16-Dip	24.12	18.20	11.68
MAX532BCWE+-ND	Dual, Serial In, Voltage Out, 12-Bit Multiplying DAC*	16-SOIC	24.12	18.20	11.68
MAX533ACEE+-ND	2.7V Low Power Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	11.18	8.44	6.70
MAX533BCEE-ND	2.7V Low Power Quad Serial Voltage Out 8-Bit DAC	16-QSOP	7.90	5.96	3.83
MAX533BCEE+-ND	2.7V Low Power Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	8.61	6.50	4.17
MAX534BCEE+-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	8.61	6.50	4.17
MAX534BCPE-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC	16-Dip	8.61	6.50	4.17
MAX534BCPE+-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC*	16-Dip	8.61	6.50	4.17
MAX535BCUA+-ND	5V, 13-Bit Voltage Out Serial D/A Converter*	8-µMAX	15.18	11.46	7.35
MAX536BCPE-ND	Quad 12-Bit Voltage Out Serial D/A Converter	16-Dip	48.97	36.96	23.70
MAX536BCPE+-ND	Quad 12-Bit Voltage Out Serial D/A Converter*	16-Dip	48.97	36.96	21.74
MAX536BCWE+-ND	Quad 12-Bit Voltage Out Serial D/A Converter*	16-SOIC	48.97	36.96	23.70
MAX537ACWE+-ND	Calibrated, Quad, 12-Bit Volt. Out DAC with Serial Interface*	16-SOIC	68.56	51.74	41.07
MAX538BCPA+-ND	Low Power 5V, 12-Bit Serial D/A Converter*	8-Dip	13.86	10.46	6.71
MAX538BCSA+-ND	Low Power 5V, 12-Bit Serial D/A Converter*	8-SOIC	13.86	10.46	6.71
MAX539BCPA+-ND	Low Power 5V, 12-Bit Serial D/A Converter*	8-Dip	13.86	10.46	6.71
MAX539BCSA+-ND	Low Power 5V, 12-Bit Serial D/A Converter*	8-SOIC	13.86	10.46	6.71
MAX541CCPA-ND	5V, 16-Bit Serial Voltage Out D/A Converter	8-Dip	28.01	21.14	28.01
MAX541CCPA+-ND	5V, 16-Bit Serial Voltage Out D/A Converter*	8-Dip	28.01	21.14	13.56
MAX541CCSA+-ND	5V, 16-Bit Serial Voltage Out D/A Converter*	8-SOIC	25.71	19.40	12.44
MAX543BCPA+-ND	CMOS 12-Bit Serial Multiplying D/A Converter*	8-Dip	20.88	15.76	10.11
MAX543BCSA+-ND	CMOS 12-Bit Serial Multiplying D/A Converter*	8-SOIC	16.72	12.62	8.10
MAX544BCPA+-ND	5V, 14-Bit Serial Voltage Out D/A Converter*	8-Dip	22.23	16.78	10.77
MAX544BCSA+-ND	5V, 14-Bit Serial Voltage Out D/A Converter*	8-SOIC	22.23	16.78	10.77
MAX547BCQH+D-ND	Octal 13-Bit Voltage Out DAC/Parallel Interface*	44-PLCC	84.54	63.80	40.90
MAX548ACPA+-ND	2.5V-5.5V Dual 8-Bit Voltage Out D/A Converter*	8-Dip	5.33	4.02	2.37
MAX548ACUA+-ND	2.5V-5.5V Dual 8-Bit Voltage Out D/A Converter*	8-µMAX	5.33	4.02	2.57
MAX549ACPA+-ND	2.5V-5.5V Dual 8-Bit Voltage Out D/A Converter*	8-Dip	5.06	3.82	2.25
MAX1026BCEE+-ND	10-Bit 300Ksps ADC with FIFO*	16-QSOP	10.52	7.94	5.29
MAX1027BCEE+-ND	10-Bit 300Ksps ADC with FIFO*	16-QSOP	10.52	7.94	5.29
MAX1028BCEP+-ND	10-Bit 300Ksps ADC with FIFO*	20-QSOP	11.90	8.98	5.76
MAX1029BCEP+-ND	10-Bit 300Ksps ADC with FIFO*	20-QSOP	11.90	8.98	5.76
MAX1030BETI+-ND	10-Bit 300Ksps ADC with FIFO*	28-TQFN	15.56	11.74	7.54
MAX1031BETI+-ND	10-Bit 300Ksps ADC with FIFO*	28-TQFN	15.56	11.74	7.54
MAX1036EKA+TCT-ND	4.5V Low Power 8-Bit, 4-Channel Serial ADC*	SOT-23-8	5.04	3.80	3.33
MAX1036EKA+TTR-ND	4.5V Low Power 8-Bit, 4-Channel Serial ADC*	SOT-23-8	7600.00/2,500		
MAX1037EKA+TCT-ND	2.7V Low Power 8-Bit, 4-Channel Serial ADC*	SOT-23-8	5.04	3.80	3.33
MAX1037EKA+TTR-ND	2.7V Low Power 8-Bit, 4-Channel Serial ADC*	SOT-23-8	7600.00/2,500		
MAX1038AEEE+-ND	2.7V Low Power 8-Bit, 12-Channel Serial ADC*	16-QSOP	5.78	4.36	2.57
MAX1039AEEE+-ND	2.7V Low Power 8-Bit, 12-Channel Serial ADC*	16-QSOP	5.78	4.36	2.57
MAX1044CPA+-ND	CMOS Switchcap Voltage Converter*	8-Dip	2.68	2.02	1.35
MAX1060BCEI+-ND	5V, 10-Bit, 4-Channel Serial ADC with Reference*	28-QSOP	13.94	10.52	6.75
MAX1061BCEI+-ND	3V, 10-Bit, 4-Channel Serial ADC with Reference*	28-QSOP	12.69	9.58	6.81
MAX1063BCEG+-ND	3V, 10-Bit, 2-Channel Serial ADC with Reference*	24-QSOP	12.11	9.14	6.49
MAX1065BEUI+-ND	Low Power 14-Bit ADC with Parallel Interface*	28-TSSOP	27.27	20.58	14.70
MAX1066BCUP+-ND	Low Power 14-Bit ADC with Parallel Interface*	20-TSSOP	23.27	17.56	12.54
MAX1067BCEE+-ND	Multichannel 14-Bit 200Ksps ADC*	16-QSOP	21.31	16.08	10.73
MAX1110CAP+-ND	2.7V, 8-Bit, 8-Channel Serial ADC with Reference*	20-SSOP	5.91	4.46	2.87
MAX1111CEE+-ND	2.7V, 8-Bit, 8-Channel Serial ADC*	16-QSOP	5.35	4.04	2.59
MAX1112CAP+-ND	5V Low Power 8-Bit Serial ADC*	20-SSOP	5.91	4.46	2.86
MAX1113CEE+-ND	5V Low Power 8-Bit Serial ADC*	16-QSOP	5.35	4.04	2.38
MAX1115EKA+TCT-ND	2.7V Low Power 8-Bit Serial ADC*	SOT-23-8	3.37	2.54	2.23
MAX1115EKA+TTR-ND	2.7V Low Power 8-Bit Serial ADC*	SOT-23-8	5080.00/2,500		
MAX1118EKA+TCT-ND	2.7V Low Power 2-Channel, 8-Bit Serial ADC*	SOT-23-8	2.70	2.04	1.79
MAX1118EKA+TTR-ND	2.7V Low Power 2-Channel, 8-Bit Serial ADC*	SOT-23-8	4080.00/2,500		
MAX1119EKA+TCT-ND	4.5V Low Power 2-Channel, 8-Bit Serial ADC*	SOT-23-8	3.37	2.54	2.23
MAX1119EKA+TTR-ND	4.5V Low Power 2-Channel, 8-Bit Serial ADC*	SOT-23-8	5080.00/2,500		
MAX1136EUA+-ND	4.5V Low Power 10-Bit, 4-Channel Serial ADC*	8-µMAX	8.37	6.32	3.72
MAX1137EUA+-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC*	8-µMAX	8.37	6.32	3.72
MAX1138EEE+-ND	4.5V Low Power 10-Bit, 12-Channel Serial ADC*	16-QSOP	9.09	6.86	4.04
MAX1139EEE+-ND	2.7V Low Power 10-Bit, 12-Channel Serial ADC*	16-QSOP	9.09	6.86	4.04
MAX1202BCAP+-ND	5V, 12-Bit 8-Channel Serial ADC with 3V Digital Interface*	20-SSOP	20.11	15.18	9.74
MAX1202BCPP-ND	5V, 12-Bit 8-Channel Serial ADC with 3V Digital Interface	20-Dip	20.11	15.18	9.74
MAX1202BCPP+-ND	5V, 12-Bit 8-Channel Serial ADC with 3V Digital Interface*	20-Dip	20.11	15.18	9.75
MAX1226BCEE+-ND	12-Bit, 300Ksps ADC with FIFO*	16-QSOP	13.78	10.40	6.67
MAX1227BCEE+-ND	12-Bit, 300Ksps ADC with FIFO*	16-QSOP	13.78	10.40	6.67
MAX1228BCEP+-ND	12-Bit, 300Ksps ADC with FIFO*	20-QSOP	15.18	11.46	7.35
MAX1229BCEP+-ND	12-Bit, 300Ksps ADC with FIFO*	20-QSOP	15.18	11.46	7.35
MAX1230BCTI+-ND	12-Bit, 300Ksps ADC with FIFO*	28-TQFN	16.51	12.46	7.99
MAX1236EUA+-ND	4.5V, 12-Bit, 4-Channel Serial ADC*	8-µMAX	11.71	8.84	5.90
MAX1237EUA+-ND	2.7V, 12-Bit, 4-Channel Serial ADC*	8-µMAX	11.71	8.84	5.90
MAX1238EEE+-ND	4.5V, 12-Bit, 12-Channel Serial ADC*	16-QSOP	12.75	9.62	6.42
MAX1239EEE+-ND	2.7V, 12-Bit, 12-Channel Serial ADC*	16-QSOP	12.75	9.62	6.42
MAX1241AESA-ND	2.7V Low Power 12-Bit Single Channel Serial ADC	8-SOIC	18.55	14.00	8.24
MAX1241AESA+-ND	2.7V Low Power 12-Bit Single Channel Serial ADC*	8-SOIC	18.55	14.00	8.24
MAX1241BCPA+-ND	2.7V Low Power 12-Bit Single Channel Serial ADC*	8-Dip	12.91	9.74	6.24
MAX1241BCSA+-ND	2.7V Low Power 12-Bit Single Channel Serial ADC*	8-SOIC	12.91	9.74	6.24
MAX1243BCSA+-ND	2.7V Low Power 10-Bit Single Channel Serial ADC*	8-SOIC	7.76	5.86	3.76
MAX1247ACEE+-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC*	16-QSOP	22.87	17.26	10.15
MAX1247BEEE-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC	16-QSOP	19.48	14.70	9.43
MAX1247BCEE+-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC*	16-QSOP	15.00	11.32	7.25
MAX1247BCPE+-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC*	16-Dip	15.00	11.32	7.25
MAX1249BCEE-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC	16-QSOP	11.21	8.46	5.43
MAX1249BCPE-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC	16-Dip	12.24	9.24	5.93
MAX1249BCPE+-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC*	16-Dip	12.24	9.24	5.93
MAX1261BCEI+-ND	3V, 250Ksps 12-Bit ADC with Reference*	28-QSOP	20.33	15.34	10.23
MAX1263BCEG+-ND	3V, 250Ksps 12-Bit ADC with Reference*	24-QSOP	17.70	13.36	8.56
MAX1264BCEG+-ND	5V, 400Ksps 12-Bit ADC with Reference*	24-QSOP	19.45	14.68	9.41
MAX1265BEEI+-ND	3V, 265Ksps 12-Bit ADC with Reference*	28-QSOP	23.98	18.10	11.32
MAX1266BEEI+-ND	5V, 420Ksps 12-Bit ADC with Reference*	28-QSOP	23.98	18.10	11.32
MAX1267BCEG+-ND	3V, 265Ksps 12-Bit ADC with Reference*	24-QSOP	18.97	14.32	8.42
MAX1268BCEG+-ND	5V, 420Ksps 12-Bit ADC with Reference*	24-QSOP	18.97	14.32	8.95
MAX1270ACNG+-ND	Multirange, +5V, 8-Channel Serial 12-Bit ADC*	24-Dip	33.81	25.52	16.37
MAX1270BCAI+-ND	Multirange, +5V, 8-Channel Serial 12-Bit ADC*	28-SSOP	27.06	20.42	12.26
MAX1285BCSA+-ND	300Ksps, Single Supply, Low Power, Serial 12-Bit ADC*	8-SOIC	16.48	12.44	9.87
MAX1491CAI+-ND	3.5-Digit, Single Chip ADC with LCD Driver*	28-SSOP	12.06	9.10	5.36
MAX1492CAI+-ND	3.5-Digit, Single Chip ADC with LCD Driver*	28-SSOP	14.95	11.28	7.24
MAX1493CCJ+-ND	4.5-Digit, Single Chip ADC with LCD Driver*	32-TQFN	17.09	12.90	8.28
MAX1494CCJ+-ND	4.5-Digit Single Chip ADC with LCD Driver*	32-TQFN	20.01	15.10	9.70
MAX1495CCJ+-ND	4.5-Digit Single Chip ADC with LCD Driver*	32-TQFN	17.09	12.90	8.28
MAX5100AEUP+-ND	2.7 to 5.5V, Low Power, Quad, Parallel 8-Bit DAC with Rail-to-Rail Voltage Output*	20-TSSOP	9.57	7.22	4.34
MAX5102AEUE+-ND	2.7 to 5.5V, Low Power, Dual, Parallel 8-Bit DAC with Rail-to-Rail Voltage Output*	16-TSSOP	7.69	5.80	3.42
MAX5102BEUE+-ND	2.7 to 5.5V, Low Power, Dual, Parallel 8-Bit DAC with Rail-to-Rail Voltage Output*	16-TSSOP	6.41	4.84	2.85
MAX5156BCEE+-ND	Low Power, Dual, 12-Bit Voltage Output DAC with Configurable Output*	16-QSOP	18.42	13.90	11.04
MAX5250BCAP+-ND	5V, 10-Bit Quad Voltage Output Serial DAC*	20-SSOP	15.18	11.46	7.35
MAX5250BCPP+-ND	5V, 10-Bit Quad Voltage Output Serial DAC*	20-Dip	13.94	10.52	6.75
MAX5251BCAP+-ND	3V, 10-Bit Quad Voltage Output Serial DAC*	20-SSOP	15.18	11.46	7.35
MAX5253BCAP+-ND	3V, 12-Bit Quad Voltage Output Serial DAC*	20-SSOP	31.99	24.14	15.48
MAX5258EEE+-ND	5V, Low Power, 8-Bit Octal DAC with R/R Output Buffer*	16-QSOP	8.61	6.50	3.82
MAX5259EEE+-ND	3V, Low Power, 8-Bit Octal DAC with R/R Output Buffer*	16-QSOP	8.61	6.50	3.82
MAX5352BCPA+-ND	5V, 12-Bit Voltage Output Serial DAC*	8-Dip	11.85	8.94	5.73
MAX5352BCUA+-ND	5V, 12-Bit Voltage Output Serial DAC*	8-µMAX	12.91	9.74	6.24
MAX5354CPA-ND	5V, 10-Bit Voltage Output Serial DAC	8-Dip	7.61	5.74	3.69
MAX5354CPA+-ND	5V, 10-Bit Voltage Output Serial DAC*	8-Dip	7.61	5.74	3.69
MAX5354CUA+-ND	5V, 10-Bit Voltage Output Serial DAC*	8-µMAX	8.29	6.26	4.03
MAX5355CUA+-ND	3.3V, 10-Bit Voltage Output Serial DAC*	8-µMAX	8.90	6.72	4.31
REF01CSA+-ND	10V Precision Voltage Reference*	8-SOIC	3.79	2.86	1.90

MAXIM DigiReel® INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX200CPP-ND	+5V Powered, Five RS-232 Trans. with Power Shutdown and .1µF External Capacitors	20-Dip	8.24	6.22	3.99
MAX201CPD-ND	+5V/+9V to +13.2V, Dual RS-232 Transceiver with .1µF External Capacitors	14-Dip	3.31	2.50	1.60
MAX201CWE+-ND	+5V/+9V to +13.2V, Dual RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	3.31	2.50	1.60
MAX202CPE+-ND	+5V Dual RS-232 Transceiver with .1µF External Capacitors*	16-Dip	3.31	2.50	1.60
MAX202CSE+-ND	+5V Dual RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	3.31	2.50	1.60
MAX202CWE+-ND	+5V Dual RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	3.31	2.50	1.60
MAX202ECPE+-ND	+5V RS-232 Transceiver, ESD Protected*	16-Dip	4.19	3.16	2.02
MAX202ECSE+-ND	+5V RS-232 Transceiver, ESD Protected*	16-SOIC	4.19	3.16	2.02
MAX202ECWE+-ND	+5V RS-232 Transceiver, ESD Protected*	16-SOIC	4.19	3.16	2.02
MAX202EESE+-ND	+5V RS-232 Transceiver, ESD Protected*	16-SOIC	5.41	4.08	2.62
MAX202ESE+-ND	+5V Dual RS-232 Transceiver with .1µF External Caps*	16-SOIC	3.98	3.00	1.92
MAX203CPP+G36-ND	+5V Powered, Dual RS-232 Transceiver*	20-Dip	7.45	5.62	3.61
MAX203CWP+G36-ND	+5V Powered, Dual RS-232 Transceiver*	20-SOIC	7.45	5.62	3.61
MAX203ECWP+G36-ND	+5V RS-232 Transceiver, ESD Protected*	20-SOIC	8.14	6.14	3.69
MAX203EEWP+G36-ND	+5V RS-232 Transceiver, ESD Protected*	20-SOIC	11.61	8.76	5.16
MAX204CPE+-ND	+5V Quad RS-232 Transceiver with .1µF External Capacitors*	16-Dip	5.88	4.44	2.85
MAX205CPG+G36-ND	+5V Powered, 5-Channel RS-232 Transceiver*	24-Dip	16.38	12.36	7.92
MAX206CWG+-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/3 Receivers*	24-SOIC	7.55	5.70	3.65
MAX207CNG+-ND	5V RS-232 Transceiver with .1µF External Caps, 5 Drivers/3 Receivers*	24-Dip	7.55	5.70	3.65
MAX207CWG+-ND	5V RS-232 Transceiver with .1µF External Caps, 5 Drivers/3 Receivers*	24-SOIC	7.55	5.70	3.65
MAX208CAG+-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/4 Receivers*	24-SSOP	7.95	6.00	3.85
MAX208CNG+-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/4 Receivers*	24-Dip	7.55	5.70	3.65
MAX208CWG+-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/4 Receivers*	24-SOIC	7.55	5.70	3.65
MAX209CNG-ND	+5V and +12V Powered, 3 RS-232 Transmitters and 5 RS-232 Receivers with Receiver Enable and .1µF External Caps.	24-Dip	7.55	5.70	3.65
MAX211CAI+-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers with .1µF External Caps.*	28-SSOP	7.95	6.00	3.85
MAX211CWI+-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers with .1µF External Caps.*	28-SOIC	7.55	5.70	3.65
MAX211ECAI+-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers with .1µF Ext. Caps., 15Kv ESD*	28-SSOP	9.17	6.92	4.43
MAX213CWI-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers (2 active in shutdown) with 0.1µF External Caps.	28-SOIC	7.55	5.70	3.65
MAX213CWI+-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers (2 active in shutdown) with 0.1µF External Caps.*	28-SOIC	7.55	5.70	3.65
MAX213EEAI+-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers (2 Active in Shutdown) with 0.1µF External Caps*	28-SSOP	11.45	8.64	6.65
MAX214CWI+-ND	Programmable DTE/DCE, 5V RS-232 Transceiver*	28-SOIC	9.06	6.84	4.39
MAX218CPP-ND	1.8V to 4.25V Powered True RS-232 Dual Transceiver	20-Dip	4.74	3.58	2.30
MAX218CPP+-ND	1.8V to 4.25V Powered True RS-232 Dual Transceiver*	20-Dip	4.74	3.58	2.56
MAX218CWP-ND	1.8V to 4.25V Powered True RS-232 Dual Transceiver	20-SOIC	4.74	3.58	2.30
MAX221CUE+-ND	5V, Single RS-232 Transceiver with Shutdown*	16-TSSOP	2.70	2.04	1.20
MAX222CPN+-ND	5V High Speed RS-232 Driver Receiver with Shutdown*	18-Dip	4.88	3.68	2.45
MAX222CWN+-ND	5V High Speed RS-232 Driver Receiver with Shutdown*	18-SOIC	4.88	3.68	2.45
MAX222EWN+-ND	5V High Speed RS-232 Driver Receiver with Shutdown*	18-SOIC	5.83	4.40	2.93
MAX225CWI+-ND	+5V Multichannel RS-232 Driver/Receiver*	28-SOIC	18.97	14.32	8.42
MAX225CWI+G36-ND	+5V Multichannel RS-232 Driver/Receiver*	28-SOIC	18.97	14.32	8.42
MAX230CPP-ND	+5V Powered, 5 RS-232 Transmitters with Power Shutdown	20-Dip	8.24	6.22	3.99
MAX231CPD+-ND	+5V and +12V Powered Dual RS-232 Transmitters and Receivers*	14-Dip	3.31	2.50	1.60
MAX232ACPE+-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers*	16-Dip	5.51	4.16	2.77
MAX232ACSE+-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers*	16-SOIC	5.51	4.16	2.77
MAX232ACWE+-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers*	16-SOIC	4.88	3.68	2.45
MAX232AESE+-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers*	16-SOIC	6.60	4.98	2.93
MAX232AEWE+-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers*	16-SOIC	5.83	4.40	2.93
MAX232CPE+-ND	+5V Powered, Dual RS-232 Transmitters and Receivers*	16-Dip	3.31	2.50	1.60
MAX232CWE+-ND	+5V Powered, Dual RS-232 Transmitters and Receivers*	16-SOIC	3.31	2.50	1.60
MAX232ECPE+-ND	+5V Powered, Dual RS-232 Transmitters/ Receivers, ESD Prot.*	16-Dip	4.19	3.16	2.02
MAX232ECSE+-ND	+5V Powered, Dual RS-232 Transmitters/ Receivers, ESD Prot.*	16-SOIC	4.19	3.16	2.02
MAX232ECWE+-ND	+5V Powered, Dual RS-232 Transmitters/ Receivers, ESD Prot.*	16-SOIC	4.19	3.16	2.02
MAX232EEPE+-ND	+5V Powered, Dual RS-232 Transmitters/Receivers, ESD Prot.*	16-Dip	5.41	4.08	2.62
MAX232EESE+-ND	+5V Powered, Dual RS-232 Transmitters/ Receivers, ESD Prot.*	16-SOIC	5.41	4.08	2.62
MAX232EPE+-ND	+5V Powered, Dual RS-232 Transmitters/Receivers*	16-Dip	3.98	3.00	1.92
MAX232ESE+-ND	+5V Powered, Dual RS-232 Transmitters/Receivers*	16-SOIC	3.98	3.00	1.92

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(Continued)

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
MAX232EWE+-ND	+5V Powered, Dual RS-232 Transmitters/Receivers*	16-SOIC	3.98	3.00	1.92
MAX233ACPP+G36-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers*	20-Dip	10.76	8.12	6.26
MAX233ACWP+G36-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers*	20-SOIC	10.76	8.12	6.26
MAX233AEPP+G36-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers*	20-Dip	14.63	11.04	7.08
MAX233AEWP+G36-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers*	20-SOIC	14.63	11.04	7.08
MAX233CPP+G36-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers*	20-Dip	7.45	5.62	3.60
MAX233EPP+G36-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers*	20-Dip	8.93	6.74	4.32
MAX234CPE+-ND	+5V Powered Quad RS-232, Transmitters*	16-Dip	5.88	4.44	2.85
MAX235CPG+G36-ND	+5V Powered, 5 RS-232 No External Comp. Transmitters and Receivers with Power Shutdown and Tri-State*	24-Dip	16.38	12.36	7.92
MAX236CNG+-ND	+5V Powered, 4 RS-232 Transmitters and 3 RS-232 Receivers with Power Shutdown and Tri-State*	24-Dip	7.55	5.70	3.65
MAX236CWG+-ND	+5V Powered, 4 RS-232 Transmitters and 3 RS-232 Receivers with Power Shutdown and Tri-State*	24-SOIC	7.55	5.70	3.65
MAX237CNG+-ND	+5V Powered, 5 RS-232 Transmitters, 3 RS-232 Receivers*	24-Dip	7.55	5.70	3.65
MAX237CWG-ND	+5V Powered, 5 RS-232 Transmitters, 3 RS-232 Receivers	24-SOIC	7.55	5.70	3.65
MAX237CWG+-ND	+5V Powered, 5 RS-232 Transmitters, 3 RS-232 Receivers*	24-SOIC	7.55	5.70	3.65
MAX238CNG+-ND	+5V Powered, Quad RS-232 Transmitters/Receivers*	24-Dip	7.55	5.70	3.65
MAX238CWG+-ND	+5V Powered, Quad RS-232 Transmitters/Receivers*	24-SOIC	7.55	5.70	3.65
MAX239CNG+-ND	+5V and +12V Powered, 3 RS-232 Transmitters and 5 RS-232 Receivers with Receiver Enable*	24-Dip	7.55	5.70	3.65
MAX240CMH+-ND	+5V Powered, 5 RS-232 Transmitters and Receivers with Power Shutdown and Tri-State*	44-MQFP	12.40	9.36	6.00
MAX241CWI+-ND	+5V Powered, 4 RS-232 Transmitters, 5 Receivers with Power Shutdown and Receiver 3-State Enable*	28-SOIC	7.55	5.70	3.65
MAX242CPN+-ND	High Speed 5V Dual RS-232 Driver/Receiver*	18-Dip	4.88	3.68	2.36
MAX242CWN+-ND	High Speed 5V Dual RS-232 Driver/Receiver*	18-SOIC	4.88	3.68	2.45
MAX242EPN+-ND	High Speed 5V Dual RS-232 Driver/Receiver*	18-Dip	5.83	4.40	2.93
MAX242EWN+-ND	High Speed 5V Dual RS-232 Driver/Receiver*	18-SOIC	5.83	4.40	2.93
MAX243CSE+-ND	5V Powered Dual RS-232 Driver/Receiver*	16-SOIC	5.51	4.16	2.77
MAX248EQH-D-ND	5V RS-232 Transceiver	44-PLCC	26.37	19.90	11.70
MAX248EQH+D-ND	5V RS-232 Transceiver*	44-PLCC	26.37	19.90	11.70
MAX249CQH+D-ND	5V, Multi-Channel RS-232 Driver/Receiver*	44-PLCC	20.27	15.30	10.20
MAX250CPD+-ND	+5V, Isolated RS-232 Driver/Receiver*	14-Dip	7.66	5.78	3.40
MAX250CSD+-ND	+5V, Isolated RS-232 Driver/Receiver*	14-SOIC	8.43	6.36	3.74
MAX250ESD-ND	+5V, Isolated RS-232 Driver/Receiver	14-SOIC	12.03	9.08	5.34
MAX250ESD+-ND	+5V, Isolated RS-232 Driver/Receiver*	14-SOIC	12.03	9.08	5.34
MAX251CPD+-ND	+5V, Isolated RS-232 Driver/Receiver*	14-Dip	7.66	5.78	3.40
MAX251CSD+-ND	+5V, Isolated RS-232 Driver/Receiver*	14-SOIC	8.43	6.36	3.74
MAX251EPD+-ND	+5V, Isolated RS-232 Driver/Receiver*	14-Dip	10.94	8.26	4.86
MAX253CPA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-Dip	2.81	2.12	1.36
MAX253CSA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-SOIC	2.81	2.12	1.36
MAX253CUA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-µMAX	3.07	2.32	1.36
MAX253EPA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-Dip	3.98	3.00	1.77
MAX253ESA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-SOIC	3.66	2.76	2.13
MAX256ASA+-ND	3W Primary Side Controller/Half-Bridge Driver*	8-SOIC	6.25	4.72	2.78
MAX481CPA+-ND	RS-485/RS-422 Transcvr with Low Current Shutdown Mode*	8-Dip	2.76	2.08	1.33
MAX483CPA+-ND	RS-485/RS-422 Transceiver, Low Power*	8-Dip	2.76	2.08	1.33
MAX483ECSA+-ND	RS-485/RS-422 Transceiver, Low Power, ESD Protected*	8-SOIC	3.42	2.58	1.66
MAX485CPA+-ND	RS-485 Low Power Transceiver*	8-Dip	2.76	2.08	1.33
MAX485CSA+-ND	RS-485 Low Power Transceiver*	8-SOIC	2.76	2.08	1.33
MAX487CPA+-ND	RS-485/RS-422 Transceiver, Slew-Rate-Limited, LP*	8-Dip	2.81	2.12	1.36
MAX487CSA+-ND	RS-485/RS-422 Transceiver, Slew-Rate-Limited, LP*	8-SOIC	2.81	2.12	1.36
MAX487ECPA+-ND	RS-485/RS-422 Transceiver, Slew-Rate-Limited, LP* ***NEW!***	8-Dip	3.42	2.58	1.51
MAX487ECSA+-ND	RS-485/RS-422 Transceiver, Slew-Rate-Limited, LP* ***NEW!***	8-SOIC	3.42	2.58	1.51
MAX487EESA+-ND	RS-485/RS-422 Transceiver, Slew-Rate-Limited, LP*	8-SOIC	4.93	3.72	2.38
MAX488CPA+-ND	RS-485/RS-422 Transceiver with Low Power Low Slew*	8-Dip	2.81	2.12	1.36
MAX488CSA+-ND	RS-485/RS-422 Transceiver with Low Power Low Slew*	8-SOIC	2.81	2.12	1.36
MAX488ECSA+-ND	RS-485/RS-422 Transceiver with Low Power Low Slew*	8-SOIC	3.42	2.58	1.66
MAX488EESA+-ND	RS-485/RS-422 Transceiver with Low Power Low Slew*	8-SOIC	4.93	3.72	2.38
MAX489CPD+-ND	RS-485/RS-422 Transceiver with Drive Enable*	14-Dip	2.81	2.12	1.36
MAX489CSD+-ND	RS-485/RS-422 Transceiver with Drive Enable*	14-SOIC	2.81	2.12	1.36
MAX489ECSD+-ND	RS-485/RS-422 Transceiver with Drive Enable*	14-SOIC	3.42	2.58	1.99
MAX489EPD+-ND	RS-485/RS-422 Transceiver with Drive Enable*	14-Dip	3.52	2.66	1.70
MAX490CPA+-ND	RS-485/RS-422 Transceiver with Full Duplex*	8-Dip	2.81	2.12	1.36
MAX490CSA+-ND	RS-485/RS-422 Transceiver with Full Duplex*	8-SOIC	2.81	2.12	1.36
MAX490ECPA+-ND	RS-485/RS-422 Transceiver with Full Duplex, ESD Protected*	8-Dip	3.42	2.58	1.66
MAX491CPD+-ND	RS-485/RS-422 Transceiver, Low Power*	14-Dip	2.81	2.12	1.36
MAX491CSD+-ND	RS-485/RS-422 Transceiver, Low Power*	14-SOIC	2.81	2.12	1.63
MAX491ECSD+-ND	RS-485/RS-422 Transceiver, Low Power, ESD Protected*	14-SOIC	3.42	2.58	1.66
MAX491ESD+-ND	RS-485/RS-422 Transceiver, Low Power*	14-SOIC	3.52	2.66	1.70
MAX560CAI+-ND	+3.3V Transceiver with 2 EIA/TIA-562 Receivers Active in Shutdown*	28-SSOP	8.67	6.54	3.85
MAX562CAI-ND	2.7V-5.25V, Serial Interface	28-SSOP	7.82	5.90	3.47
MAX562CAI+-ND	2.7V-5.25V, Serial Interface*	28-SSOP	7.82	5.90	3.47
MAX563CWN+-ND	3.3V, EIA/TIA-562 Dual Transceiver*	18-SOIC	5.51	4.16	2.45
MAX1480ACPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	26.18	19.76	11.32
MAX1480AEPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	33.23	25.08	14.68
MAX1480BCPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	25.02	18.88	11.80
MAX1480BEPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	32.49	24.52	15.34
MAX1480EACPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	25.33	19.12	12.27
MAX1480EAEPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	36.17	27.30	17.51
MAX1480ECCPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	25.33	19.12	12.27
MAX1480ECEPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	36.17	27.30	17.51
MAX1482CPD+-ND	Full Duplex, Slew Rate Ltd, Low Power RS-485 Transceiver*	14-Dip	2.81	2.12	1.36
MAX1482CSD+-ND	Full Duplex, Slew Rate Ltd, Low Power RS-485 Transceiver*	14-SOIC	2.81	2.12	1.36
MAX1487CPA+-ND	2.5Mbps RS-485/RS-422 Transceiver*	8-Dip	2.81	2.12	1.36
MAX1487CSA+-ND	2.5Mbps RS-485/RS-422 Transceiver*	8-SOIC	2.81	2.12	1.36
MAX1487ECSA+-ND	2.5Mbps RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	3.42	2.58	1.99
MAX1488ECSD+-ND	RS-232 Quad Driver, ESD Protected*	14-SOIC	2.17	1.64	1.05
MAX1488EEPD+-ND	RS-232 Quad Driver, ESD Protected*	14-Dip	3.10	2.34	1.50
MAX1489ECSD+-ND	Quad, Low Power RS-232 Line Receiver, ESD Protected*	14-SOIC	2.17	1.64	1.26
MAX1489EESD+-ND	Quad, Low Power RS-232 Line Receiver, ESD Prot.* ***NEW!***	14-SOIC	3.10	2.34	1.37
MAX1490ACPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	26.18	19.76	11.56
MAX1490AEPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	33.23	25.08	16.09
MAX1490BCPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	25.02	18.88	11.05
MAX1490BEPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	32.52	24.54	14.36
MAX1490EACPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	25.33	19.12	12.27
MAX1490EAEPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	36.17	27.30	17.51
MAX1490EBCPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	25.33	19.12	12.27
MAX1490EBEPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface*	24-Dip	36.17	27.30	17.51
MAX3032EEUE+-ND	3.3V Quad RS-422 Transmitter, ESD Protected*	16-TSSOP	2.25	1.70	1.00
MAX3050ASA+-ND	2Mbps, Low Supply Current CAN Transceiver*	8-SOIC	3.71	2.80	1.65
MAX3053ESA+-ND	2Mbps, Low Supply Current CAN Transceiver*	8-SOIC	3.71	2.80	1.65
MAX3057ASA+-ND	2Mbps, Low Supply Current CAN Transceiver*	8-SOIC	3.71	2.80	1.65
MAX3070EAPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	5.38	4.06	2.61
MAX3070EASD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	5.38	4.06	2.61
MAX3070EEPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	4.29	3.24	1.91
MAX3070EESD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	4.29	3.24	1.91
MAX3071EAPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	5.38	4.06	2.61
MAX3071EASA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	5.38	4.06	2.61
MAX3071EEPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	4.29	3.24	1.91
MAX3071EESA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	4.29	3.24	1.91
MAX3072EAPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	5.38	4.06	2.61
MAX3072EASA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	5.38	4.06	2.61
MAX3072EEPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	4.29	3.24	1.91
MAX3072EESA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	4.29	3.24	1.91
MAX3073EAPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	5.38	4.06	2.61
MAX3073EASD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	5.38	4.06	2.61
MAX3073EEPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	4.29	3.24	1.91
MAX3073EESD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	4.29	3.24	1.91
MAX3074EAPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	5.38	4.06	2.61
MAX3074EASA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	5.38	4.06	2.61
MAX3074EEPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	4.29	3.24	1.91
MAX3074EESA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	4.29	3.24	1.91
MAX3075EAPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	5.38	4.06	2.61
MAX3075EASA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	5.38	4.06	2.61
MAX3075EEPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	4.29	3.24	1.91
MAX3075EESA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	4.29	3.24	1.91
MAX3076EAPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	5.38	4.06	2.61
MAX3076EASD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	5.38	4.06	2.61
MAX3076EEPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	4.29	3.24	1.91
MAX3076EESD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	4.29	3.24	1.91
MAX3077EAPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	5.38	4.06	2.61
MAX3077EASA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	5.38	4.06	2.61
MAX3077EEPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	4.29	3.24	1.91
MAX3077EESA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	4.29	3.24	1.91
MAX3078EASA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	5.38	4.06	2.61
MAX3078EEPA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-Dip	4.29	3.24	1.91
MAX3078EESA+-ND	3.3V, RS-485/RS-422 Transceiver*	8-SOIC	4.29	3.24	1.91
MAX3079EAPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	5.38	4.06	2.61
MAX3079EASD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	5.38	4.06	2.61
MAX3079EEPD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-Dip	4.29	3.24	1.91
MAX3079EESD+-ND	3.3V, RS-485/RS-422 Transceiver*	14-SOIC	4.29	3.24	1.91
MAX3080ECSD+-ND	10Mbps, High Speed , Slew-Rate Limited RS-485/RS-422 Transceiver*	14-SOIC	3.45	2.60	1.84
MAX3082CPA+-ND	10Mbps, HS, Slew-Rate Limited RS-485/RS-422 Transceiver*	8-Dip	2.99	2.26	1.33
MAX3082CSA+-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver*	8-SOIC	2.99	2.26	1.33
MAX3082ESA+-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver*	8-SOIC	3.74	2.82	1.66
MAX3086CSD-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver	14-SOIC	2.99	2.26	1.33
MAX3086CSD+-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver*	14-SOIC	2.99	2.26	1.33
MAX3088CSA+TCT-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver*	8-SOIC	3.18	2.40	2.10
MAX3089ESD+-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver*	14-SOIC	3.74	2.82	1.66
MAX3094ECSE+-ND	10Mbps, 3V, LP Quad RS-422/RS-485 Receiver*	16-SOIC	3.02	2.28	1.34
MAX3095CPE+-ND	10Mbps, 5V, Quad RS-422/RS-485 Receiver, ESD Protected*	16-Dip	3.02	2.28	1.34
MAX3095EPE-ND	10Mbps, 5V, Quad RS-422/RS-485 Receiver, ESD Protected	16-Dip	4.29	3.24	1.91
MAX3096CEE+-ND	10Mbps, 3V, Quad RS-422/RS-485 Receiver, ESD Prot.*	16-QSOP	3.02	2.28	1.34
MAX3096CSE+-ND	10Mbps, 3V, Quad RS-422/RS-485 Receiver, ESD Prot.*	16-SOIC	3.02	2.28	1.34
MAX3097ECSE+-ND	32Mbps, 3V-5.5V, Triple RS-422/RS-485 Rcvr., ESD Prot.*	16-SOIC	8.75	6.60	3.89
MAX3100CEE+-ND	SPI/Microwire-Compatible UART*	16-QSOP	7.00	5.28	3.10
MAX3100CPD+-ND	SPI/Microwire-Compatible UART*	14-Dip	7.00	5.28	3.10
MAX3100EEE+-ND	SPI/Microwire-Compatible UART*	16-QSOP	9.99	7.54	4.43
MAX3100EPD+-ND	SPI/Microwire-Compatible UART*	14-Dip	9.99	7.54	4.43
MAX3110ECNI+G36-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver*	28-Dip	11.61	8.76	5.16
MAX3110ECWI+G36-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver*	28-SOIC	11.61	8.76	5.16
MAX3111ECWI+G36-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver*	28-SOIC	11.61	8.76	5.16
MAX3111EEWI+G36-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver*	28-SOIC	16.62	12.54	7.37
MAX3140CEI+-ND	SPI/Microwire-Compatible UART with Integrated True Fail-Safe RS-485/RS-422 Transceiver*	28-QSOP	9.99	7.54	4.44
MAX3157CAI+-ND	High CMRR RS-485 Transceiver with ±50V Isolation*	28-SSOP	8.61	6.50	4.59
MAX3160EAP+-ND	+3V to +5.5V, 10nA, RS-232/RS-485/RS-422 Multiprotocol Transceiver*	20-SSOP	19.29	14.56	10.29
MAX3160EEAP+-ND	+3V to +5.5V, 10nA, RS-232/RS-485/RS-422 Multiprotocol Transceiver* ***NEW!***	20-SSOP	20.22	15.26	8.93
MAX3161EAG+-ND	+3V to +5.5V, 1µA, RS-232/RS-485/RS-422 Multiprotocol Transceiver*	24-SSOP	19.29	14.56	10.29
MAX3162CAI+-ND	+3V to +5.5V,Two Transceiver Two Receiver RS-232 Interface and Single RS-485/422 Transceiver*	28-SSOP	13.52	10.20	6.00
MAX3162EAI+-ND	+3V to +5.5V, Two Transceiver Two Receiver RS-232 Interface and Single RS-485/422 Transceiver*	28-SSOP	19.29	14.56	8.57
MAX3208EAUB+-ND	4-Ch. HS Diff. 4 I/O Port ESD Prot. Diode Array* ***NEW!***	10-µMAX	1.35	1.02	.60
MAX3209ECUU+-ND	12V, Dual RS-232 Serial Port with Low-Power Standby for Motherboards/Desktops*	38-TSSOP	5.72	4.32	2.77
MAX3218CAP-ND	1.8V to 4.25V, RS-232 Transceiver with AutoShutdown	20-SSOP	4.74	3.58	2.10
MAX3218CAP+-ND	1.8V to 4.25V, RS-232 Transceiver with AutoShutdown*	20-SSOP	4.74	3.58	2.10
MAX3221CAE+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown*	16-SSOP	2.84	2.14	1.37
MAX3221EAE+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown*	16-SSOP	4.05	3.06	1.96
MAX3221ECAE+-ND	3V to 5.5V, 250kbps, RS-232 Transceiver w/AutoShutdown, ESD Protected*	16-SSOP	3.26	2.46	1.58
MAX3221EEAE+-ND	3V to 5.5V, 250kbps, RS-232 Transceiver w/AutoShutdown, ESD Protected*	16-SSOP	4.66	3.52	2.26

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INTERFACE *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX3222CPN+-ND	3V to 5.5V, Low Power, True RS-232 Transceiver*	18-Dip	4.19	3.16	2.02
MAX3223EAP+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown*	20-SSOP	5.41	4.08	2.62
MAX3223ECAP+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown*	20-SSOP	5.04	3.80	2.93
MAX3223EEAP+-ND	3V to 5.5V, 250kbps, RS-232 Transceiver with AutoShutdown, ESD Protected*	20-SSOP	7.21	5.44	3.49
MAX3223EEPP+-ND	3V to 5.5V, 250Kbps, RS-232 Transceiver with AutoShutdown, ESD Protected*	20-Dip	7.21	5.44	3.63
MAX3224CAP+-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver w/AutoShutdown*	20-SSOP	4.19	3.16	2.02
MAX3224ECAP+-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver with AutoShutdown, ESD Protected*	20-SSOP	5.04	3.80	2.44
MAX3225CAP+-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver with AutoShutdown* ***NEW!***	20-SSOP	4.19	3.16	1.85
MAX3226EEAE+-ND	3V to 5.5V, 250Kbps, RS-232 Transceiver with AutoShutdown, ESD Protected*	16-SSOP	4.66	3.52	2.26
MAX3227EAE+-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver with AutoShutdown, ESD Protected* ***NEW!***	16-SSOP	4.05	3.06	1.80
MAX3232CSE+-ND	3V to 5.5V, True RS-232 Transceiver Up to 1Mbps*	16-SOIC	4.19	3.16	2.02
MAX3232CUE+-ND	3V to 5.5V, True RS-232 Transceiver Up to 1Mbps*	16-TSSOP	4.16	3.14	1.85
MAX3232ECAE+-ND	3V to 5.5V, True RS-232 Transceiver, ESD Protected*	16-SSOP	5.04	3.80	2.44
MAX3232ECPE+-ND	3V to 5.5V, True RS-232 Transceiver, ESD Protected*	16-Dip	5.04	3.80	2.44
MAX3232ECWE+-ND	3V to 5.5V, True RS-232 Transceiver, ESD Protected*	16-SOIC	5.04	3.80	2.44
MAX3232EEAE+-ND	3V to 5.5V, True RS-232 Transceiver, ESD Protected*	16-SSOP	7.21	5.44	3.49
MAX3232ESE+-ND	3V to 5.5V, True RS-232 Transceiver, ESD Prot.* ***NEW!***	16-SOIC	5.41	4.08	2.40
MAX3232EUE+-ND	3V to 5.5V, True RS-232 Transceiver, ESD Protected*	16-SSOP	5.41	4.08	2.40
MAX3233ECPP+G36-ND	3V to 3.6V, 250Kbps, Dual RS-232 Transceiver, ESD Protected*	20-Dip	8.80	6.64	3.90
MAX3233ECWP+G36-ND	3V to 3.6V, 250Kbps, Dual RS-232 Transceiver, ESD Protected*	20-SOIC	8.80	6.64	3.90
MAX3233EEWP+G36-ND	3V to 3.6V, 250Kbps, Dual RS-232 Transceiver, ESD Protected*	20-SOIC	12.22	9.22	5.91
MAX3235ECWP+G36-ND	4.5V to 5.5V, 250Kbps, Dual RS-232 Transceiver, ESD Protected*	20-SOIC	8.11	6.12	4.23
MAX3235EEWP+G36-ND	4.5V to 5.5V, 250Kbps, Dual RS-232 Transceiver, ESD Protected*	20-SOIC	11.24	8.48	5.44
MAX3237CAI+-ND	3V to 5.5V, True RS-232 Transceiver*	28-SSOP	7.53	5.68	3.65
MAX3237EAI+-ND	3V to 5.5V, True RS-232 Transceiver*	28-SSOP	10.76	8.12	5.21
MAX3237ECAI+-ND	3V to 5.5V, True RS-232 Transceiver, ESD Protected*	28-SSOP	8.75	6.60	4.23
MAX3237EEAI+-ND	3V to 5.5V, True RS-232 Transceiver, ESD Protected*	28-SSOP	11.98	9.04	5.79
MAX3238EAI+-ND	3V to 5.5V, 250Kbps True RS-232 Transceiver with Auto Shutdown Plus*	28-SSOP	10.76	8.12	6.26
MAX3238ECAI-ND	3V to 5.5V, 250Kbps True RS-232 Transceiver, ESD Prot.	28-SSOP	8.75	6.60	4.23
MAX3238ECAI+-ND	3V to 5.5V, 250Kbps True RS-232 Transceiver, ESD Prot.*	28-SSOP	8.75	6.60	4.23
MAX3241CAI+-ND	3V to 5.5V, Low Power True RS-232 Transceiver*	28-SSOP	7.53	5.68	3.65
MAX3241EAI+-ND	3V to 5.5V, Low Power True RS-232 Transceiver*	28-SSOP	10.76	8.12	5.21
MAX3241ECAI+-ND	3V to 5.5V, LP True RS-232 Transceiver, ESD Protected*	28-SSOP	8.75	6.60	4.23
MAX3241EEAI+-ND	3V to 5.5V, LP True RS-232 Transceiver, ESD Protected*	28-SSOP	11.98	9.04	5.79
MAX3243CAI+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown*	28-SSOP	7.53	5.68	3.65
MAX3243EAI+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown*	28-SSOP	10.76	8.12	5.21
MAX3243ECAI+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protected*	28-SSOP	8.75	6.60	4.23
MAX3244ECAI+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protected*	28-SSOP	8.75	6.60	4.23
MAX3244ECWI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protected	28-SOIC	8.75	6.60	4.23
MAX3245ECAI+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protected*	28-SSOP	9.54	7.20	4.23
MAX3245EEWI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protected	28-SOIC	13.06	9.86	5.79
MAX3250CAI+-ND	3V to 5.5V, 250kbps, RS-232 Transceiver*	28-SSOP	8.61	6.50	4.17
MAX3250EAI+-ND	3V to 5.5V, 250kbps, RS-232 Transceiver* ***NEW!***	28-SSOP	11.47	8.66	5.07
MAX3291EPD-ND	5Mbps to 10Mbps, RS-485/RS-422 Transceiver	14-Dip	9.51	7.18	4.22
MAX3291EPD+-ND	5Mbps to 10Mbps, RS-485/RS-422 Transceiver*	14-Dip	9.51	7.18	4.22
MAX3292ESD+-ND	Prog. up to 10Mbps, RS-485/RS-422 Transceiver*	14-SOIC	9.51	7.18	4.22
MAX3311CUB+-ND	460Kbps, 1µA Supply Current RS-232 Transceiver*	10-µMAX	2.60	1.96	1.15
MAX3311ECUB+-ND	460Kbps, 1µA Supply Current RS-232 Transceiver, ESD Protected*	10-µMAX	2.92	2.20	1.29
MAX3311EEUB+-ND	460Kbps, 1µA Supply Current RS-232 Transceiver, ESD Protected*	10-µMAX	3.79	2.86	1.68
MAX3313CUB+-ND	460Kbps, 1µA Supply Current RS-232 Transceiver*	10-µMAX	2.60	1.96	1.15
MAX3313ECUB+-ND	460Kbps, 1µA Supply Current RS-232 Transceiver, ESD Protected*	10-µMAX	2.92	2.20	1.29
MAX3319ECAE+-ND	2.5V, 1µA, 460Kbps, RS-232 Transceiver*	16-SSOP	5.49	4.14	2.44
MAX3320TEAP-ND	3V to 5.5V, True RS-232 Transceiver with AutoShutdown	20-SSOP	6.49	4.90	2.89
MAX3320TEAP+-ND	3V to 5.5V, True RS-232 Transceiver with AutoShutdown*	20-SSOP	6.49	4.90	2.87
MAX3380ECUP+-ND	1µA, 460Kbps, RS-232 Transceiver*	20-TSSOP	6.28	4.74	2.78
MAX3380EEUP+-ND	1µA, 460Kbps, RS-232 Transceiver*	20-TSSOP	8.98	6.78	4.38
MAX3386ECUP+-ND	3V, 250Kbps, RS-232 Transceiver, ESD Protected*	20-TSSOP	5.70	4.30	2.75
MAX3387ECUG+-ND	3V, 250Kbps, RS-232 Transceiver, Auto Shutdown, ESD Protected*	24-TSSOP	7.34	5.54	3.25
MAX3387EEUG+-ND	3V, 250Kbps, RS-232 Transceiver, Auto Shutdown, ESD Protected*	24-TSSOP	8.75	6.60	3.88
MAX3395EETC+-ND	High Drive Current, Quad Level Translator* ***NEW!***	12-TQFN	3.02	2.28	1.34
MAX3420EECJ+-ND	USB Peripheral Controller with SPI Interface*	32-TQFP	7.45	6.08	3.58
MAX3420EETG+-ND	USB Peripheral Controller with SPI Interface*	24-TQFN	7.90	5.96	3.51
MAX3420EEVKIT-2+-ND	Evalution Kit for MAX3420E*	—	46.80	—	—
MAX3421EEHJ+-ND	USB Peripheral/Host Controller with SPI Interface*	32-TQFP	11.10	8.38	4.93
MAX3421EETJ+-ND	USB Peripheral/Host Controller w/SPI Interface*	32-TQFP-EP	10.94	8.26	4.86
MAX3421EVKIT-1+-ND	Evaluation Kit for MAX3421E*	—	58.50	—	—
MAX3430CPA+-ND	80V Fault Protected RS-485 Transceiver*	8-Dip	5.54	4.18	2.46
MAX3430CSA+-ND	80V Fault Protected RS-485 Transceiver*	8-SOIC	5.54	4.18	2.46
MAX3430EPA+-ND	80V Fault Protected RS-485 Transceiver*	8-Dip	6.89	5.20	3.06
MAX3430ESA+-ND	80V Fault Protected RS-485 Transceiver*	8-SOIC	6.89	5.20	3.06
MAX3440EEPA+-ND	60V Fault Protected RS-485/J1708 Transceiver*	8-Dip	5.41	4.08	2.40
MAX3440EESA+-ND	60V Fault Protected RS-485/J1708 Transceiver*	8-SOIC	5.41	4.08	2.40
MAX3453EETE+-ND	±15kV ESD Protected USB Transceiver*	16-TQFN	1.80	1.36	.80
MAX3454EETE+-ND	±15kV ESD Protected USB Transceiver*	16-TQFN	1.80	1.36	.80
MAX3454EEUD+-ND	±15kV ESD Protected USB Transceiver*	14-TSSOP	1.80	1.36	.80
MAX3460CSD+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	14-SOIC	7.18	5.42	3.48
MAX3460ESD+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	14-SOIC	10.26	7.74	4.97
MAX3462CSA+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	8-SOIC	7.18	5.42	3.50
MAX3462ESA+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	8-SOIC	10.26	7.74	4.97
MAX3463CSA+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	8-SOIC	7.18	5.42	3.50
MAX3463ESA+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	8-SOIC	10.26	7.74	4.97
MAX3464CSA+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	8-SOIC	7.18	5.42	3.50
MAX3464ESA+-ND	5V, 20Mbps, RS-485/RS-422 Transceiver*	8-SOIC	10.26	7.74	4.97
MAX3465CSD+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	14-SOIC	3.50	2.64	1.70
MAX3465ESD+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	14-SOIC	3.95	2.98	1.91
MAX3466CSD+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	14-SOIC	3.50	2.64	1.70
MAX3467CPA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-Dip	3.50	2.64	1.70
MAX3467CSA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-SOIC	3.50	2.64	1.70
MAX3467EPA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-Dip	3.95	2.98	1.91
MAX3467ESA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-SOIC	3.95	2.98	1.91
MAX3468CSA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-SOIC	3.50	2.64	1.70
MAX3468ESA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-SOIC	3.95	2.98	1.91
MAX3469CSA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-SOIC	3.50	2.64	1.70
MAX3469ESA+-ND	5V, 40Mbps, RS-485/RS-422 Transceiver*	8-SOIC	3.95	2.98	1.91
MAX3471EUA+-ND	1.6µA, RS-485/RS-422, Half-Duplex Differential Transceiver*	8-µMAX	5.19	3.92	2.31
MAX3480ACPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	37.55	28.34	18.17
MAX3480AEPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	53.64	40.48	23.82
MAX3480BCPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	35.62	26.88	17.24
MAX3480BEPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	50.85	38.38	24.61
MAX3480EACPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	35.67	26.92	17.26
MAX3480EAEPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	50.93	38.44	25.66
MAX3480EBCPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	33.92	25.60	15.05
MAX3480EBEPI+-ND	3.3V, RS-485/RS-422 Data Interface*	28-Dip	48.47	36.58	29.05
MAX3483ECSA+-ND	3V to 3.6V, 250Kbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	4.32	3.26	2.09
MAX3483EESA+-ND	3V to 3.6V, 250Kbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	5.46	4.12	2.64
MAX3486CSA+-ND	3.3V, 2.5Mbps, Slew Rate Limited, True RS-485/422 Transceiver*	8-SOIC	3.82	2.88	2.21
MAX3490CSA+-ND	3.3V, 10Mbps, Slew Rate Limited, True RS-485/422 Transceiver*	8-SOIC	3.82	2.88	1.84
MAX3490ECSA+-ND	3.3V, 10Mbps, Slew Rate Limited, True RS-485/422 Transceiver*	8-SOIC	4.32	3.26	2.51
MAX3491ECSD+-ND	3V to 3.6V, 12Mbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected*	14-SOIC	4.32	3.26	2.09
MAX3491EESD+-ND	3V to 3.6V, 12Mbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected*	14-SOIC	5.46	4.12	2.64
MAX13050ASA+-ND	Industry-Standard, CAN Transceiver*	8-SOIC	3.95	2.98	1.91
MAX13080EASD+-ND	5V RS-485/RS-422 Transceiver*	14-SOIC	4.16	3.14	1.85
MAX13080ECSD+-ND	5V RS-485/RS-422 Transceiver*	14-SOIC	3.79	2.86	1.98
MAX13080EESD+-ND	5V RS-485/RS-422 Transceiver*	14-SOIC	4.00	3.02	1.77
MAX13081ECSA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.23	2.44	1.57
MAX13082ECPA+-ND	5V RS-485/RS-422 Transceiver*	8-Dip	3.15	2.38	1.53
MAX13082ECSA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.10	2.34	1.50
MAX13082EEPA+-ND	5V RS-485/RS-422 Transceiver*	8-Dip	3.39	2.56	1.51
MAX13082EESA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.34	2.52	1.49
MAX13083ECPD+-ND	5V RS-485/RS-422 Transceiver*	14-Dip	3.84	2.90	1.87
MAX13083EEPD+-ND	5V RS-485/RS-422 Transceiver*	14-Dip	4.05	3.06	1.96
MAX13083EESD+-ND	5V RS-485/RS-422 Transceiver*	14-SOIC	4.00	3.02	1.93
MAX13085EASA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.50	2.64	1.70
MAX13085ECSA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.10	2.34	1.50
MAX13085EEPA+-ND	5V RS-485/RS-422 Transceiver*	8-Dip	3.39	2.56	1.51
MAX13085EESA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.34	2.52	1.49
MAX13086EEPD+-ND	5V RS-485/RS-422 Transceiver*	14-Dip	4.05	3.06	1.96
MAX13086EESD+-ND	5V RS-485/RS-422 Transceiver*	14-SOIC	4.00	3.02	1.93
MAX13088EESA+-ND	5V RS-485/RS-422 Transceiver*	8-SOIC	3.34	2.52	1.49
MAX13089EASD+-ND	5V RS-485/RS-422 Transceiver*	14-SOIC	4.11	3.10	1.83
MAX13485EESA+-ND	Half-Duplex RS-485/RS-422 Transceiver*	8-SOIC	3.07	2.32	1.36
MAX13486EESA+-ND	Half-Duplex RS-485/RS-422 Transceiver*	8-SOIC	3.07	2.32	1.36
MAX13487EESA+-ND	Half-Duplex RS-485/RS-422 Transceiver*	8-SOIC	3.07	2.32	1.36
MAX13488EESA+-ND	Half-Duplex RS-485/RS-422 Transceiver*	8-SOIC	3.07	2.32	1.36
MXL1344ACAG+-ND	5V, Multiprotocol, Software-Selectable Cable Terminator*	24-SSOP	14.58	11.00	7.06
MXL1535ECWI+-ND	3V to 5V, RS-485/RS-422 Transceiver*	28-SOIC	11.26	8.50	5.00
MXL1543CAI+-ND	5V Multiprotocol, Software-Selectable Clock/Data Transceiver*	28-SSOP	16.32	12.32	7.90
MXL1544CAI+-ND	5V Multiprotocol, Software-Selectable Control Transceiver*	28-SSOP	13.25	10.00	5.88

POWER AND BATTERY MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX603CSA+-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator*	8-SOIC	4.77	3.60	2.12
MAX603CPA+-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator*	8-Dip	4.35	3.28	1.92
MAX603ESA+-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator*	8-SOIC	6.07	4.58	2.69
MAX604CSA+-ND	Adjustable Low Dropout Regulator*	8-SOIC	4.77	3.60	2.12
MAX604CPA+-ND	Adjustable Low Dropout Regulator*	8-Dip	4.35	3.28	1.92
MAX604ESA+-ND	Adjustable Low Dropout Regulator*	8-SOIC	6.07	4.58	2.69
MAX619CSA+-ND	Regulated 5V Charge-Pump DC/DC Converter*	8-SOIC	4.45	3.36	1.97
MAX619ESA+-ND	Regulated 5V Charge-Pump DC/DC Converter*	8-SOIC	6.02	4.54	2.66
MAX627CSA+-ND	Dual Non-Inverting Power MOSFET Driver*	8-SOIC	3.87	2.92	1.95
MAX629ESA+-ND	High Voltage, Boost or Inverting DC/DC Converter*	8-SOIC	7.37	5.56	3.26
MAX630CSA-ND	CMOS Step-Up Switching Regulator	8-SOIC	7.95	6.00	3.52
MAX630CSA+-ND	CMOS Step-Up Switching Regulator*	8-SOIC	7.95	6.00	3.84
MAX631ACPA-ND	+5V/Adjustable Output CMOS Step-Up Switching Regulator	8-Dip	6.86	5.18	3.05
MAX631ACPA+-ND	+5V/Adjustable Output CMOS Step-Up Switching Regulator*	8-Dip	6.86	5.18	3.05
MAX631ACSA-ND	+5V/Adjustable Output CMOS Step-Up Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX631ACSA+-ND	+5V/Adjustable Output CMOS Step-Up Switching Regulator*	8-SOIC	7.10	5.36	3.44
MAX632ACPA+-ND	+12V/Adjustable Output CMOS Step-Up Switching Regulator*	8-Dip	6.86	5.18	3.05
MAX632ACSA-ND	+12V/Adjustable Output CMOS Step-Up Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX632ACSA+-ND	+12V/Adjustable Output CMOS Step-Up Switching Regulator*	8-SOIC	7.10	5.36	3.15
MAX634CPA+-ND	CMOS Micropower Inverting Switching Regulator*	8-Dip	6.52	4.92	3.16
MAX634CSA+-ND	CMOS Micropower Inverting Switching Regulator*	8-SOIC	7.18	5.42	3.48
MAX635ACPA+-ND	-5V/Adj. Output CMOS Inverting Switching Regulator*	8-Dip	6.86	5.18	3.32
MAX635ACSA+-ND	-5V/Adj. Output CMOS Inverting Switching Regulator*	8-SOIC	7.10	5.36	3.44
MAX636ACPA+-ND	-12V/Adj. Output CMOS Inverting Switching Regulator*	8-Dip	6.86	5.18	3.05
MAX636ACSA+-ND	-12V/Adj. Output CMOS Inverting Switching Regulator*	8-SOIC	7.10	5.36	3.44
MAX637ACPA+-ND	-15V/Adj. Output CMOS Inverting Switching Regulator*	8-Dip	6.86	5.18	3.32
MAX637ACSA+-ND	-15V/Adj. Output CMOS Inverting Switching Regulator*	8-SOIC	7.10	5.36	3.44
MAX638ACPA-ND	5V Adj. Output CMOS Step-Down Switching Regulator	8-Dip	6.86	5.18	3.05
MAX638ACPA+-ND	5V Adj. Output CMOS Step-Down Switching Regulator*	8-Dip	6.86	5.18	3.05
MAX638ACSA+-ND	5V Adj. Output CMOS Step-Down Switching Regulator*	8-SOIC	7.10	5.36	3.44

**** RoHS Compliant***

(Continued)

POWER AND BATTERY MANAGEMENT *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX641ACSA+-ND	Fixed Output 10W CMOS Step-Up Switching Regulator*	8-SOIC	7.10	5.36	3.15
MAX641AESA+-ND	Fixed Output 10W CMOS Step-Up Switching Regulator*	8-SOIC	11.05	8.34	4.91
MAX660CPA+-ND	100mA CMOS Monolithic Voltage Converter*	8-Dip	6.94	5.24	3.50
MAX660CSA+-ND	100mA CMOS Monolithic Voltage Converter*	8-SOIC	7.29	5.50	3.68
MAX662ACPA+-ND	12V Supply for Flash Memory*	8-Dip	4.80	3.62	2.32
MAX662ACSA+-ND	12V Supply for Flash Memory*	8-SOIC	4.90	3.70	2.37
MAX663CPA+-ND	Dual Mode™ 5V/Prog. Micropower Voltage Regulator*	8-Dip	4.21	3.18	2.03
MAX663CSA+-ND	Dual Mode™ 5V/Prog. Micropower Voltage Regulator*	8-SOIC	4.64	3.50	2.24
MAX663ESA+-ND	Dual Mode™ 5V/Prog. Micropower Voltage Regulator*	8-SOIC	6.89	5.20	3.34
MAX664CSA+-ND	Dual Mode™ 5V/Prog. Micropower Voltage Regulator*	8-SOIC	5.64	4.26	2.73
MAX665CPA-ND	CMOS +8V/Switched-Capacitor Voltage Converter	8-Dip	9.94	7.50	4.81
MAX665CPA+-ND	CMOS +8V/Switched-Capacitor Voltage Converter*	8-Dip	9.94	7.50	4.81
MAX666CPA+-ND	CMOS +5V/Adj. Voltage Regulator with Low Battery Detector*	8-Dip	4.88	3.68	2.36
MAX666CSA+-ND	CMOS +5V/Adj. Voltage Regulator with Low Battery Detector*	8-SOIC	5.35	4.04	2.59
MAX666ESA+-ND	CMOS +5V/Adj. Voltage Regulator with Low Battery Detector*	8-SOIC	8.32	6.28	4.02
MAX667CPA+-ND	+5V/Programmable Low Dropout Voltage Regulator*	8-Dip	5.49	4.14	2.76
MAX667CSA+-ND	+5V/Programmable Low Dropout Voltage Regulator*	8-SOIC	5.72	4.32	2.88
MAX667EPA+-ND	+5V/Programmable Low Dropout Voltage Regulator*	8-Dip	7.13	5.38	3.59
MAX667ESA+-ND	+5V/Programmable Low Dropout Voltage Regulator*	8-SOIC	7.39	5.58	3.72
MAX668EUB+-ND	1.8V to 28V Input, PWM Step-Up Controller*	10-µMAX	5.43	4.10	2.46
MAX680CPA+-ND	+5V to ±10V Voltage Converter*	8-Dip	4.48	3.38	2.17
MAX680CSA+-ND	+5V to ±10V Voltage Converter*	8-SOIC	4.90	3.70	2.38
MAX680EPA+-ND	+5V to ±10V Voltage Converter*	8-Dip	6.15	4.64	2.74
MAX683EUA+-ND	3.3V Input to Regulated 5V Output Charge Pump* ***NEW!***	8-µMAX	5.41	4.08	2.39
MAX710ESE+-ND	3.3V or 5V Output Step Up/Down DC/DC Converter*	16-SOIC	7.61	5.74	3.38
MAX712CPE+-ND	Battery Fast Charge Controller for NIMH*	16-Dip	7.71	5.82	3.88
MAX712CSE+-ND	Battery Fast Charge Controller for NIMH*	16-SOIC	8.08	6.10	3.92
MAX713CPE+-ND	3-Out Battery Fast Charge Controller for NiCad/NIMH*	16-Dip	7.71	5.82	3.88
MAX713CSE+-ND	3-Out Battery Fast Charge Controller for NiCad/NIMH*	16-SOIC	8.08	6.10	3.92
MAX730ACSA+-ND	5V, Step Down, Current Mode PWM DC/DC Converter*	8-SOIC	5.57	4.20	2.69
MAX732CWE+-ND	+12V Step-Up Current Mode PWM Reg. for Flash Memory*	16-SOIC	6.84	5.16	3.31
MAX734CPA+-ND	+12V, 120mA Supply for Flash Memory*	8-Dip	5.01	3.78	2.42
MAX734CSA+-ND	+12V, 120mA Supply for Flash Memory*	8-SOIC	5.54	4.18	2.68
MAX738ACWE+-ND	5V, Step-Down, PWM, DC/DC Converter*	16-SOIC	6.70	5.06	2.98
MAX743CPE+-ND	Dual Output, Switch-Mode Regulator*	16-Dip	11.24	8.48	4.99
MAX749CPA+-ND	Digitally Adjustable LCD Bias Supply*	8-Dip	6.49	4.90	3.14
MAX749CSA+-ND	Digitally Adjustable LCD Bias Supply*	8-SOIC	6.76	5.10	3.27
MAX750ACSA-ND	Adjustable Step-Down Current Mode PWM Regulator	8-SOIC	5.57	4.20	2.69
MAX750ACSA+-ND	Adjustable Step-Down Current Mode PWM Regulator*	8-SOIC	5.57	4.20	2.69
MAX751CPA-ND	+5V Step-Up Current Mode PWM DC/DC Converter	8-Dip	5.51	4.16	2.45
MAX751CPA+-ND	+5V Step-Up Current Mode PWM DC/DC Converter*	8-Dip	5.51	4.16	2.45
MAX752CPA-ND	Adjustable Step-Up Current Mode PWM Regulator	8-Dip	7.37	5.56	3.27
MAX756CPA+-ND	High-Efficiency Step-Up DC/DC Converter*	8-Dip	4.80	3.62	2.14
MAX756CSA+-ND	High-Efficiency Step-Up DC/DC Converter*	8-SOIC	5.38	4.06	2.60
MAX757CSA+-ND	Adjustable Output, Step-Up DC/DC Converter* ***NEW!***	8-SOIC	5.38	4.06	2.38
MAX758ACPA+-ND	Adjustable Step-Down Current Mode PWM Regulator*	8-Dip	6.41	4.84	3.23
MAX761CPA+-ND	12V Adj. High-Efficiency Step-Up DC/DC Converter*	8-Dip	5.43	4.10	2.41
MAX761CSA+-ND	12V Adj. High-Efficiency Step-Up DC/DC Converter*	8-SOIC	5.99	4.52	2.90
MAX761ESA+-ND	12V Adj. High-Efficiency Step-Up DC/DC Converter*	8-SOIC	8.14	6.14	3.69
MAX762CSA+-ND	15V, High-Efficiency, Low IQ, Step-Up DC/DC Converter*	8-SOIC	5.99	4.52	3.45
MAX764CSA+-ND	–5V or Adj., High-Efficiency, Low IQ, DC/DC Inverter*	8-SOIC	6.10	4.60	2.70
MAX764ESA+-ND	–5V or Adj., High-Efficiency, Low IQ, DC/DC Inverter*	8-SOIC	8.80	6.64	3.91
MAX765CPA-ND	–12V or Adj., High-Efficiency, Low IQ DC/DC Inverter	8-Dip	5.99	4.52	2.65
MAX765CPA+-ND	–12V or Adj., High-Efficiency, Low IQ DC/DC Inverter*	8-Dip	5.99	4.52	2.65
MAX765ESA+-ND	–12V or Adj., High-Efficiency, Low IQ DC/DC Inverter*	8-SOIC	8.80	6.64	3.91
MAX766CPA-ND	–15V DC/DC Inverter	8-Dip	5.99	4.52	2.90
MAX766CPA+-ND	–15V DC/DC Inverter*	8-Dip	5.99	4.52	2.90
MAX766ESA+-ND	–12V or Adj., High-Efficiency, Low IQ, DC/DC Inverter*	8-SOIC	8.80	6.64	3.91
MAX770CSA+-ND	5V or Adj., High-Efficiency, Low IQ, Step-Up DC/DC Converter*	8-SOIC	4.85	3.66	2.59
MAX797CSE+-ND	3.3V/5V or Adj., Step-Down Controller*	16-SOIC	9.41	7.10	4.56
MAX845ESA+-ND	Isolated Transformer Driver for PCMCIA Applications*	8-SOIC	3.98	3.00	2.13
MAX845EUA+-ND	Isolated Transformer Driver for PCMCIA Applications*	8-µMAX	4.19	3.16	2.24
MAX848ESE+-ND	High-Power, Low-Noise, Step-Up DC/DC Converter*	16-SOIC	6.36	4.80	2.82
MAX856CSA+-ND	3.3V/5V or Adj. Output, Step-Up DC/DC Converter*	8-SOIC	4.13	3.12	1.83
MAX860ISA+-ND	50mA, Frequency Selectable, Switched-Capacitance Voltage Converter*	8-SOIC	3.74	2.82	1.66
MAX865EUA+-ND	Compact, Dual-Output Charge Pump*	8-µMAX	3.60	2.72	1.60
MAX868EUB+-ND	Regulated, Adjustable -2x Inverting Charge Pump*	10-µMAX	4.51	3.40	2.00
MAX873ACSA-ND	2.5V, Low Power, Low-Drift, Precision Voltage Reference	8-SOIC	13.86	10.46	6.15
MAX881REUB+-ND	Low Noise Bias Supply*	10-µMAX	5.06	3.82	2.24
MAX882CSA+-ND	5V/3.3V Adjustable Low Dropout Linear Regulator*	8-SOIC	4.11	3.10	1.83
MAX882ESA+-ND	5V/3.3V Adjustable Low Dropout Linear Regulator*	8-SOIC	5.22	3.94	2.53
MAX883CSA+-ND	5V or Adj., LDO, Low IQ, 200mA Linear Regulator*	8-SOIC	4.11	3.10	1.83
MAX889RESA+-ND	0.5MHz, Regulated, 200mA, Inverting Charge Pump*	8-SOIC	5.86	4.42	2.60
MAX889TESA+-ND	2MHz, Regulated, 200mA, Inverting Charge Pump*	8-SOIC	5.86	4.42	2.60
MAX892LEUA+-ND	Current-Limited, High-Side P-Ch. Switch with Thermal SD*	8-µMAX	3.42	2.58	1.81
MAX1614EUA+-ND	High-Side, N-Channel MOSFET Switch Driver* ***NEW!***	8-µMAX	4.27	3.22	1.89
MAX1615EUK+TCT-ND	High Voltage, Low Power Linear Regulator*	SOT-23-5	1.93	1.46	1.28
MAX1615EUK+TTR-ND	High Voltage, Low Power Linear Regulator*	SOT-23-5	2920.00/2,500		
MAX1623EAP+-ND	Sync. Rectification, Low Voltage, Step-Down Regulator*	20-SSOP	11.74	8.86	5.20
MAX1626ESA+-ND	3.3V/5V, High-Efficiency Step-Down DC/DC Controller*	8-SOIC	4.61	3.48	2.06
MAX1627ESA+-ND	Adj., High-Efficiency Step-Down DC/DC Controller*	8-SOIC	4.61	3.48	2.06
MAX1644EAE-ND	Sync. Rectification, Step-Down Regulator	16-SSOP	10.02	7.56	4.45
MAX1644EAE+-ND	Sync. Rectification, Step-Down Regulator*	16-SSOP	10.02	7.56	4.45
MAX1649CSA+-ND	5V, High-Efficiency LDO Step-Down DC/DC Controller*	8-SOIC	4.96	3.74	2.19
MAX1649ESA+-ND	5V, High-Efficiency LDO Step-Down DC/DC Controller*	8-SOIC	6.23	4.70	2.77
MAX1655EEE+-ND	High-Efficiency, PWM Step-Down DC/DC Controller*	16-QSOP	9.54	7.20	4.24
MAX1658ESA+-ND	350mA, 16.5V Input, LDO Linear Regulator*	8-SOIC	5.06	3.82	2.24
MAX1668MEE+-ND	Multi Channel Remote/Local Temperature Sensor*	16-QSOP	9.86	7.44	4.37
MAX1672EEE+-ND	Step-Up/Down DC/DC Converter*	16-QSOP	6.84	5.16	3.03
MAX1673ESA+-ND	Regulator 125mA Output, Charge-Pump DC/DC Inverter*	8-SOIC	5.33	4.02	2.36
MAX1674EUA+-ND	Compact, High-Efficiency, Step-Up DC/DC Converter*	8-µMAX	5.06	3.82	2.24
MAX1675EUA+-ND	Step-Up DC/DC Converter*	8-µMAX	5.06	3.82	2.24
MAX1676EUB+-ND	Compact, High-Efficiency, Step-Up DC/DC Converter*	10-µMAX	5.43	4.10	2.41
MAX1681ESA+-ND	125mA, Switched-Capacitor Voltage Converter*	8-SOIC	5.33	4.02	2.36
MAX1684EEE+-ND	300kHz, 14V Input, 1A, PWM Step-Down Converter*	16-QSOP	8.56	6.46	3.79
MAX1685EEE+-ND	600kHz, 14V Input, 1A, PWM Step-Down Converter*	16-QSOP	8.56	6.46	3.79
MAX1692EUB+-ND	Step-Down Regulator*	10-µMAX	6.31	4.76	2.80
MAX1709ESE+-ND	4A, Low-Noise, High-Freq. Step-Up DC/DC Converter*	16-SOIC	9.73	7.34	4.32

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX1715EEI+-ND	Ultra High Efficiency, Dual Step-Down Controller for Notebook Computers*	28-QSOP	8.11	6.12	4.23
MAX1724EZK33+TCT-ND	3.3V, Step-Up DC/DC Converter*	SOT-23-5	3.63	2.74	2.40
MAX1724EZK33+TTR-ND	3.3V, Step-Up DC/DC Converter*	SOT-23-5	5480.00/2,500		
MAX1724EZK50+TCT-ND	5V, Step-Up DC/DC Converter*	SOT-23-5	3.63	2.74	2.40
MAX1724EZK50+TTR-ND	5V, Step-Up DC/DC Converter*	SOT-23-5	5480.00/2,500		
MAX1737EEI+-ND	Stand-Alone Switch-Mode Lithium-Ion Battery Charger Controller*	28-QSOP	7.76	5.86	3.45
MAX1745EUB+-ND	High Voltage, Step-Down DC/DC Controller*	10-µMAX	7.50	5.66	3.99
MAX1758EAI+-ND	Stand-Alone Switch-Mode Lithium-Ion Battery Charger with Internal 28V Switch*	28-SSOP	9.59	7.24	4.26
MAX1759EUB+-ND	Buck/Boost Regulating Charge Pump*	10-µMAX	6.33	4.78	2.81
MAX1760EUB+-ND	0.8A, Low-Noise, 1MHz, Step-Up DC/DC Converter*	10-µMAX	6.97	5.26	3.09
MAX1771CPA+-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Efficient*	8-Dip	4.45	3.36	2.15
MAX1771CSA+-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Efficient*	8-SOIC	4.88	3.68	2.16
MAX1771ESA+-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Efficient*	8-SOIC	6.65	5.02	2.95
MAX1772EEI+-ND	Multichemistry Battery-Charger Building Block*	28-QSOP	12.40	9.36	5.50
MAX1775EEE+-ND	Dual Output Step-Down DC/DC Converter*	16-QSOP	8.32	6.28	3.69
MAX1791EUB+-ND	High Efficiency, Step-Down Controller*	10-µMAX	5.67	4.28	2.75
MAX1792EUA15-ND	1.5V or Adj., 500mA LDO Linear Regulator	8-µMAX	3.18	2.40	1.41
MAX1792EUA15+-ND	1.5V or Adj., 500mA LDO Linear Regulator*	8-µMAX	3.18	2.40	1.41
MAX1797EUA+-ND	Low Supply Current, Step-Up DC/DC Converter*	8-µMAX	9.96	7.52	4.42
MAX1806EUA08+-ND	0.8V, 500mA, Low-Voltage Linear Regulator*	8-µMAX	3.50	2.64	1.69
MAX1831EEE-ND	3A, 1MHz, Low-Voltage Step-Down Regulator	16-QSOP	11.29	8.52	5.01
MAX1831EEE+-ND	3A, 1MHz, Low-Voltage Step-Down Regulator*	16-QSOP	11.29	8.52	5.01
MAX1931EUB+-ND	Current-Limited Switch for Single USB Port* ***NEW!***	10-µMAX	2.17	1.64	.97
MAX4420CPA+-ND	High-Speed 6A MOSFET Driver, Non-Inverting*	8-Dip	3.39	2.56	1.83
MAX4420ESA+-ND	High-Speed 6A MOSFET Driver, Non-Inverting*	8-SOIC	4.58	3.46	2.47
MAX4429CPA-ND	High-Speed 6A MOSFET Driver, Inverting	8-Dip	3.39	2.56	1.83
MAX4429CPA+-ND	High-Speed 6A MOSFET Driver, Inverting*	8-Dip	3.39	2.56	1.83
MAX4820EUP+-ND	+3.3V/+5V, 8-Channel, Cascadable Relay Driver with Serial/Parallel Interface*	20-TSSOP	3.68	2.78	1.67
MAX5035CUSA+-ND	76V, 1A, High Efficiency Step-Down DC/DC Converter*	8-SOIC	7.16	5.40	3.16
MAX5062AASA+-ND	125V, 2A, High-Speed, Half-Bridge MOSFET Driver*	8-SOIC	5.11	3.86	2.47
MAX5063AASA+-ND	125V, 2A, High-Speed, Half-Bridge MOSFET Driver*	8-SOIC	5.11	3.86	2.47
MAX5070AASA+-ND	High Performance, Single Ended, Current-Mode PWM Controller*	8-SOIC	2.17	1.64	1.05
MAX5070AAUA+-ND	High Performance, Single Ended, Current-Mode PWM Controller*	8-µMAX	2.17	1.64	1.05
MAX5070BASA+-ND	High Performance, Single Ended, Current-Mode PWM Controller*	8-SOIC	2.17	1.64	1.05
MAX5070BAUA+-ND	High Performance, Single Ended, Current-Mode PWM Controller*	8-µMAX	2.17	1.64	1.06
MAX5086BATE+-ND	65V, 250mA, Low Quiescent Current Linear Regulator with Adjustable Reset Delay*	16-TQFN-EP	4.05	3.06	2.75
MAX5087BATE+-ND	65V, 400mA, Low Quiescent Current Linear Regulator with Adjustable Reset Delay*	16-TQFN-EP	4.24	3.20	2.06
MAX5094AAUA+-ND	High Performance, Single Ended, Current-Mode PWM Controller*	8-µMAX	2.17	1.64	1.06
MAX5094BASA+-ND	High Performance, Single Ended, Current-Mode PWM Controller*	8-SOIC	2.17	1.64	1.06
MAX6791TPLD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	6480.00/2,500		
MAX6791TPSD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.29	3.24	2.84
MAX6791TPSD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	6480.00/2,500		
MAX6792TPLD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.29	3.24	2.84
MAX6792TPLD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	6480.00/2,500		
MAX6792TPSD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.29	3.24	2.84
MAX6792TPSD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	6480.00/2,500		
MAX6793TPLD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.03	3.04	2.66
MAX6793TPLD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	6080.00/2,500		
MAX6793TPSD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.03	3.04	2.66
MAX6793TPSD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	6080.00/2,500		
MAX6794TPLD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.03	3.04	2.66
MAX6794TPLD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	6080.00/2,500		
MAX6794TPSD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.03	3.04	2.66
MAX6794TPSD2+TTR-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	6080.00/2,500		
MAX6795TPLD2+TCT-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	3.42	2.58	2.26
MAX6795TPLD2+TTR-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	5160.00/2,500		
MAX6795TPSD2+TCT-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	3.42	2.58	2.26
MAX6795TPSD2+TTR-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	5160.00/2,500		
MAX6796TPLD2+TCT-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	3.42	2.58	2.26
MAX6796TPLD2+TTR-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	5160.00/2,500		
MAX6796TPSD2+TCT-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	3.42	2.58	2.26
MAX6796TPSD2+TTR-ND	High-Voltage, Micropower, Single Linear Regulator with Supervisory Functions*	20-TQFN	5160.00/2,500		

**** RoHS Compliant***

(Continued)

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MAXIM Digi-Reel® POWER AND BATTERY MANAGEMENT *(Continued)*

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
MAX8516EUB+-ND	1A, 0.2V Dropout LDO Regulator*	10-µMAX	2.97	2.24	1.32
MAX8556ETE+-ND	4A Ultra Low Input Voltage LDO Regulator*	16-TQFN	5.83	4.40	2.82
MAX8557ETE+-ND	4A Ultra Low Input Voltage LDO Regulator* ***NEW!***	16-TQFN	5.83	4.40	2.58
MAX8581ETB+TCT-ND	2.5MHz Step-Down Converter*	10-TDFN-EP	3.92	2.96	2.59
MAX8581ETB+TTR-ND	2.5MHz Step-Down Converter*	10-TDFN-EP	4330.00/2,500		
MAX8582ETB+TCT-ND	1.5MHz Step-Down Converter*	10-TDFN-EP	3.92	2.96	2.59
MAX8582ETB+TTR-ND	1.5MHz Step-Down Converter*	10-TDFN-EP	4330.00/2,500		
MAX8662ETM+-ND	Power Management ICs for Sinlge-Cell, Li+ Battery Operated Devices*	48-TQFN-EP	10.63	8.02	5.14
MAX8663ETL+-ND	Power Management ICs for Sinlge-Cell, Li+ Battery Operated Devices*	40-TQFN-EP	9.88	7.46	4.78
MAX8671XETL+-ND	Power Management IC with Integrated Charger*	40-TQFN	11.26	8.50	5.45
MAX8723ETE+-ND	Internal Switch, Step-Down Regulator*	16-TQFN	9.22	6.96	4.08
MAX8869EUE33+-ND	1A, MicroCap, Low Dropout, Linear Regulator*	16-TSSOP-EP	4.56	3.44	2.43
MAX8881EUT50+TCT-ND	12V, Ultra Low IQ, LDO Linear Regulator with POK*	SOT-23-6	4.19	3.16	2.77
MAX8881EUT50+TTR-ND	12V, Ultra Low IQ, LDO Linear Regulator with POK*	SOT-23-6	6320.00/2,500		
MAX15006AASA+-ND	40V Ultra-Low Quiescent Current Linear Regulator*	8-SOIC	1.78	1.34	.79
MAX15007AASA+-ND	40V Ultra-Low Quiescent Current Linear Regulator*	8-SOIC	1.78	1.34	.78

MAXIM Digi-Reel® SUPERVISORS AND VOLTAGE MONITORS

Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
MAX690ACPA+-ND	Microprocessor WDT/Reset Circuit*	8-Dip	6.94	5.24	3.36
MAX690ACSA+-ND	Microprocessor WDT/Reset Circuit*	8-SOIC	7.29	5.50	3.53
MAX690AESA+-ND	Microprocessor WDT/Reset Circuit*	8-SOIC	10.20	7.70	5.78
MAX690CPA+-ND	Microprocessor WDT/Reset Circuit*	8-Dip	7.23	5.46	3.50
MAX690EPA+-ND	Microprocessor WDT/Reset Circuit*	8-Dip	10.49	7.92	5.08
MAX691ACPE+-ND	Microprocessor WDT/Battery Switchover/Reset Generator*	16-Dip	7.84	5.92	3.80
MAX691ACWE+-ND	Microprocessor WDT/Battery Switchover/Reset Generator*	16-SOIC	8.24	6.22	4.79
MAX691AEPE+-ND	Microprocessor WDT/Battery Switchover/Reset Gen.*	16-Dip	9.83	7.42	4.75
MAX691CPE+-ND	Microprocessor WDT/Battery Switchover/Reset Generator*	16-Dip	7.84	5.92	3.80
MAX691CWE+-ND	Microprocessor WDT/Battery Switchover/Reset Generator*	16-SOIC	8.64	6.52	4.18
MAX692ACPA-ND	Microprocessor Supervisory Circuit	8-Dip	6.94	5.24	3.50
MAX692ACPA+-ND	Microprocessor Supervisory Circuit*	8-Dip	6.94	5.24	3.36
MAX692CPA+-ND	Microprocessor Supervisory Circuit*	8-Dip	7.23	5.46	3.50
MAX693ACPE+-ND	Microprocessor Supervisory Circuit*	16-Dip	7.84	5.92	3.80
MAX693CPE+-ND	Microprocessor Supervisory Circuit*	16-Dip	7.84	5.92	3.80
MAX694CPA+-ND	Microprocessor WDT/Battery Switchover/ Reset Gen., Min. Reset Pulse Width, 140nS*	8-Dip	7.23	5.46	3.50
MAX695CPE+-ND	Microprocessor WDT/Battery Switchover/Reset Generator*	16-Dip	7.84	5.92	3.80
MAX695CWE+-ND	Microprocessor WDT/Battery Switchover/Reset Generator*	16-SOIC	8.64	6.52	4.18
MAX696EWE+-ND	Microprocessor WDT/Battery Switchover/Reset Gen.*	16-SOIC	12.53	9.46	6.03
MAX699CPA+-ND	Low Cost Power-On Reset and WDT Controller*	8-Dip	4.93	3.72	2.38
MAX700CSA+-ND	Adj. Threshold Power-Supply Monitor with Reset*	8-SOIC	5.19	3.92	2.62
MAX701CPA+-ND	Power Supply Monitor with Reset*	8-Dip	4.72	3.56	2.37
MAX701CSA+-ND	Power Supply Monitor with Reset*	8-SOIC	4.72	3.56	2.37
MAX701ESA+-ND	Power Supply Monitor with Reset*	8-SOIC	6.12	4.62	3.08
MAX703CPA+-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset*	8-Dip	6.10	4.60	2.95
MAX703CSA+-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset*	8-SOIC	6.10	4.60	2.95
MAX704CPA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset*	8-Dip	6.10	4.60	2.95
MAX704CSA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset	8-SOIC	6.10	4.60	2.95
MAX704CSA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset*	8-SOIC	6.10	4.60	2.95
MAX704ESA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset*	8-SOIC	7.92	6.53	5.18
MAX705CPA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset*	8-Dip	5.46	4.12	2.64
MAX705CSA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset*	8-SOIC	5.46	4.12	2.64
MAX705ESA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset*	8-SOIC	7.10	5.36	3.43
MAX706CPA+-ND	Microprocessor Supervisory Circuit*	8-Dip	5.46	4.12	2.64
MAX706CSA+-ND	Microprocessor Supervisory Circuit*	8-SOIC	5.46	4.12	2.64
MAX706PCSA+-ND	2.63V Microprocessor Supervisory Circuit*	8-SOIC	5.91	4.46	2.86
MAX706SCSA+-ND	2.93V Microprocessor Supervisory Circuit*	8-SOIC	5.91	4.46	2.86
MAX706TCUA+-ND	3.08V Microprocessor Supervisory Circuit* ***NEW!***	8-µMAX	6.73	5.08	2.99
MAX707CPA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High/Low Reset, 4.65V Reset*	8-Dip	4.90	3.70	2.37
MAX707CSA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High/Low Reset, 4.65V Reset*	8-SOIC	4.90	3.70	2.37
MAX708CPA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High/Low Reset, 4.4V Reset*	8-Dip	4.90	3.70	2.37
MAX708CSA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High/Low Reset, 4.4V Reset*	8-SOIC	4.90	3.70	2.37
MAX708SCSA+-ND	Low-Cost, Microprocessor Supervisory Circuit Active-High/Low 2.93V Reset*	8-SOIC	5.30	4.00	2.56
MAX709RCSA-ND	Power Supply Monitor, 2.63V Reset	8-SOIC	2.86	2.16	1.39
MAX709LCPA+-ND	Power Supply Monitor, 4.65V Reset*	8-Dip	2.65	2.00	1.28
MAX709LCSA+-ND	Power Supply Monitor, 4.65V Reset*	8-SOIC	2.86	2.16	1.39
MAX709MCPA+-ND	Power Supply Monitor, 4.40V Reset* ***NEW!***	8-Dip	2.65	2.00	1.28
MAX791CPE+-ND	High Perform Microprocessor Supervisory Circuit*	16-Dip	8.48	6.40	4.10
MAX791CSE+-ND	High Perform Microprocessor Supervisory Circuit*	16-SOIC	8.90	6.72	4.31
MAX793RCSE+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit*	16-SOIC	8.56	6.83	4.55
MAX793TCSE+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit*	16-SOIC	8.56	6.46	3.79
MAX793TESE+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit*	16-SOIC	11.13	8.88	5.92
MAX800LCPE-ND	µP Supervisory Circuit with 4.65V Reset, Chip Enable, WD	16-Dip	9.28	7.00	4.50
MAX803MEXR+TCT-ND	4.38V, Microprocessor Reset Circuit*	SC70	2.25	1.70	1.49
MAX803MEXR+TTR-ND	4.38V, Microprocessor Reset Circuit*	SC70	3400.00/2,500		
MAX803REXR+TCT-ND	2.63V, Microprocessor Reset Circuit*	SC70	2.25	1.70	1.49
MAX803REXR+TTR-ND	2.63V, Microprocessor Reset Circuit*	SC70	3400.00/2,500		
MAX803SEXR+TCT-ND	2.93V, Microprocessor Reset Circuit*	SC70	2.25	1.70	1.49
MAX803SEXR+TTR-ND	2.93V, Microprocessor Reset Circuit*	SC70	3400.00/2,500		
MAX809LEUR+TCT-ND	4.63V, Microprocessor Reset Circuit*	SOT-23	2.12	1.60	1.40
MAX809LEUR+TTR-ND	4.63V, Microprocessor Reset Circuit*	SOT-23	3200.00/2,500		
MAX809MEUR+TCT-ND	4.38V, Microprocessor Reset Circuit*	SOT-23	2.12	1.60	1.40
MAX809MEUR+TTR-ND	4.38V, Microprocessor Reset Circuit*	SOT-23	3200.00/2,500		
MAX809REUR+TCT-ND	2.63V, Microprocessor Reset Circuit*	SOT-23	2.12	1.60	1.40
MAX809REUR+TTR-ND	2.63V, Microprocessor Reset Circuit*	SOT-23	3200.00/2,500		
MAX809SEUR+TCT-ND	2.93V, Microprocessor Reset Circuit*	SOT-23	2.12	1.60	1.40
MAX809SEUR+TTR-ND	2.93V, Microprocessor Reset Circuit*	SOT-23	3200.00/2,500		
MAX809TEUR+TCT-ND	3.08V, Microprocessor Reset Circuit*	SOT-23	2.12	1.60	1.40
MAX809TEUR+TTR-ND	3.08V, Microprocessor Reset Circuit*	SOT-23	3200.00/2,500		
MAX810SEUR+TCT-ND	2.93V, Microprocessor Reset Circuit*	SOT-23	2.12	1.60	1.40
MAX810SEUR+TTR-ND	2.93V, Microprocessor Reset Circuit*	SOT-23	3200.00/2,500		
MAX811LEUS+TCT-ND	4.63V, Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX811LEUS+TTR-ND	4.63V, Voltage Monitor*	SOT-143-4	3240.00/2,500		
MAX811REUS+TCT-ND	2.63V, Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX811REUS+TTR-ND	2.63V, Voltage Monitor*	SOT-143-4	3240.00/2,500		
MAX811SEUS+TCT-ND	2.93V, Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX811SEUS+TTR-ND	2.93V, Voltage Monitor*	SOT-143-4	3240.00/2,500		
MAX811TEUS+TCT-ND	3.08V, Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX811TEUS+TTR-ND	3.08V, Voltage Monitor*	SOT-143-4	3240.00/2,500		
MAX812SEUS+TCT-ND	2.93V, Microprocessor Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX812SEUS+TTR-ND	2.93V, Microprocessor Voltage Monitor*	SOT-143-4	3240.00/2,500		
MAX813LCPA+-ND	Low Cost Microprocessor Supervisor Circuit*	8-Dip	3.47	2.62	1.79
MAX813LCSA+-ND	Low Cost Microprocessor Supervisor Circuit*	8-SOIC	3.47	2.62	1.79
MAX823SEUK+TCT-ND	2.93V, Microprocessor Supervisory Circuit*	SOT-23-5	2.86	2.16	1.89
MAX823SEUK+TTR-ND	2.93V, Microprocessor Supervisory Circuit*	SOT-23-5	4320.00/2,500		
MAX824SEUK+TCT-ND	2.93V, Microprocessor Supervisory Circuit*	SOT-23-5	2.86	2.16	1.89
MAX824SEUK+TTR-ND	2.93V, Microprocessor Supervisory Circuit*	SOT-23-5	4320.00/2,500		
MAX825LEUK-TCT-ND	4.63V, Microprocessor Supervisory Circuit	SOT-23-5	2.76	2.08	1.82
MAX825LEUK+TCT-ND	4.63V, Microprocessor Supervisory Circuit*	SOT-23-5	2.76	2.08	1.82
MAX825LEUK+TTR-ND	4.63V, Microprocessor Supervisory Circuit*	SOT-23-5	4160.00/2,500		
MAX837EUS+TCT-ND	Micropower Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX837EUS+TTR-ND	Micropower Voltage Monitor*	SOT-143-4	3240.00/2,500		
MAX1232CPA+-ND	Microprocessor Monitor*	8-Dip	3.52	2.66	1.82
MAX1232CSA+-ND	Microprocessor Monitor*	8-SOIC	3.52	2.66	1.82
MAX1232EPA+-ND	Microprocessor Monitor High Temperature*	8-Dip	4.40	3.32	2.28
MAX1232ESA+-ND	Microprocessor Monitor High Temperature*	8-SOIC	4.58	3.46	2.37
MAX6301CSA+-ND	5V, Low Power, Micropower, Supervisory Circuit*	8-SOIC	3.82	2.88	1.69
MAX6303CSA+-ND	5V, Low Power, Micropower, Supervisory Circuit*	8-SOIC	3.82	2.88	1.69
MAX6303ESA+-ND	5V, Low Power, Micropower, Supervisory Circuit*	8-SOIC	3.82	2.88	2.05
MAX6306UK29D3+TCT-ND	2.93V, Multiple-Input, Programmable Reset IC*	SOT-23-5	2.86	2.16	1.89
MAX6306UK29D3+TTR-ND	2.93V, Multiple-Input, Programmable Reset IC*	SOT-23-5	4320.00/2,500		
MAX6309UK29D3+TCT-ND	2.93V, Multiple-Input, Programmable Reset IC*	SOT-23-5	2.86	2.16	1.89
MAX6309UK29D3+TTR-ND	2.93V, Multiple-Input, Programmable Reset IC*	SOT-23-5	4320.00/2,500		
MAX6312UK29D3+TCT-ND	2.93V, Multiple-Input, Programmable Reset IC*	SOT-23-5	2.86	2.16	1.89
MAX6312UK29D3+TTR-ND	2.93V, Multiple-Input, Programmable Reset IC*	SOT-23-5	4320.00/2,500		
MAX6314US46D3-TCT-ND	4.63V Reset Circuit	SOT-143	2.36	1.78	1.56
MAX6314US46D3+TCT-ND	4.63V Reset Circuit*	SOT-143	2.36	1.78	1.56
MAX6314US46D3+TTR-ND	4.63V Reset Circuit*	SOT-143	3560.00/2,500		
MAX6315US29D2-TCT-ND	2.93V Open-Drain Reset Circuit	SOT-143	2.36	1.78	1.56
MAX6315US29D2+TCT-ND	2.93V Open-Drain Reset Circuit*	SOT-143	2.36	1.78	1.56
MAX6320PUK29CY+TCT-ND	2.93V Microprocessor Supervisory Circuit*	SOT-23-5	2.76	2.08	1.82
MAX6320PUK29CY+TTR-ND	2.93V Microprocessor Supervisory Circuit*	SOT-23-5	4160.00/2,500		
MAX6320PUK46CYTCT-ND	4.63V Microprocessor Supervisory Circuit	SOT-23-5	2.76	2.08	1.82
MAX6320PUK46CYTTR-ND	4.63V Microprocessor Supervisory Circuit	SOT-23-5	4160.00/2,500		
MAX6320PUK46CY+TCT-ND	4.63V Microprocessor Supervisory Circuit*	SOT-23-5	2.76	2.08	1.82
MAX6320PUK46CY+TTR-ND	4.63V Microprocessor Supervisory Circuit*	SOT-23-5	4160.00/2,500		
MAX6336US23D3-TCT-ND	2.3V, Ultra Low Voltage, Low Power, Reset Circuit	SOT-143-4	2.52	1.90	1.67
MAX6336US23D3-TTR-ND	2.3V, Ultra Low Voltage, Low Power, Reset Circuit	SOT-143-4	3800.00/2,500		
MAX6338KUB+-ND	Quad Voltage Monitor*	10-µMAX	6.49	4.90	2.87
MAX6338LUB+-ND	Quad Voltage Monitor*	10-µMAX	6.49	4.90	2.87
MAX6338OUB+-ND	Quad Voltage Monitor*	10-µMAX	6.49	4.90	2.87
MAX6348UR46+TCT-ND	4.63V, Ultra Low Power Microprocessor Reset Circuit*	SOT-23	2.36	1.78	1.56
MAX6348UR46+TTR-ND	4.63V, Ultra Low Power Microprocessor Reset Circuit*	SOT-23	3560.00/2,500		
MAX6355LSUT+TCT-ND	Microprocessor Supervisor w/Multiple Reset Volt.* ***NEW!***	SOT-23-6	3.29	2.48	1.46
MAX6355LSUT+TTR-ND	Microprocessor Supervisor w/Multiple Reset Volt.* ***NEW!***	SOT-23-6	3627.00/2,500		
MAX6364LUT31+TCT-ND	Low Power Microprocessor Supervisory Circuit*	SOT-23-6	3.58	2.70	2.37
MAX6364LUT31+TTR-ND	Low Power Microprocessor Supervisory Circuit*	SOT-23-6	5400.00/2,500		
MAX6369KA+TCT-ND	Pin-Selectable Watchdog Timer*	SOT-23-8	2.33	1.76	1.54
MAX6412UK22+TCT-ND	2.188V, Low Power, Single Voltage, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	2.17	1.64	1.44
MAX6412UK22+TTR-ND	2.188V, Low Power, Single Voltage, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	3280.00/2,500		
MAX6413UK29+TCT-ND	2.925V, Low Power, Single Voltage, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	2.17	1.64	1.44
MAX6413UK29+TTR-ND	2.925V, Low Power, Single Voltage, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	3280.00/2,500		
MAX6414UK29+TCT-ND	2.925V, Low Power, Single Voltage, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	2.17	1.64	1.44
MAX6414UK29+TTR-ND	2.925V, Low Power, Single Voltage, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	3280.00/2,500		
MAX6415UK+TCT-ND	Adjustable, Low Power, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	2.17	1.64	1.44
MAX6415UK+TTR-ND	Adjustable, Low Power, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	3280.00/2,500		
MAX6416UK+TCT-ND	Adjustable, Low Power, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	2.17	1.64	1.44
MAX6416UK+TTR-ND	Adjustable, Low Power, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	3280.00/2,500		
MAX6417UK+TCT-ND	Adjustable, Low Power, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	2.17	1.64	1.44
MAX6417UK+TTR-ND	Adjustable, Low Power, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	3280.00/2,500		
MAX6418UK29+TCT-ND	2.925V, Low Power, Dual Voltage, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	2.17	1.64	1.44
MAX6418UK29+TTR-ND	2.925V, Low Power, Dual Voltage, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	3280.00/2,500		
MAX6419UK31+TCT-ND	3.075V, Low Power, Dual Voltage, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	2.17	1.64	1.44
MAX6419UK31+TTR-ND	3.075V, Low Power, Dual Voltage, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	3280.00/2,500		
MAX6420UK29+TCT-ND	2.925V, Low Power, Dual Voltage, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	2.17	1.64	1.44
MAX6420UK29+TTR-ND	2.925V, Low Power, Dual Voltage, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	3280.00/2,500		
MAX6421US26+TCT-ND	2.625V, Low Power, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-143-4	2.17	1.64	1.44
MAX6421US26+TTR-ND	2.625V, Low Power, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-143-4	3280.00/2,500		
MAX6423XS26+TCT-ND	2.625V, Low Power, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SC70-4	2.17	1.64	1.44
MAX6423XS26+TTR-ND	2.625V, Low Power, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SC70-4	3280.00/2,500		

RoHS Compliant

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SUPERVISORS AND VOLTAGE MONITORS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX6425UK26+TCT-ND	2.625V, Low Power, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	2.17	1.64	1.44
MAX6425UK26+TTR-ND	2.625V, Low Power, MPU Reset Circuit with Capacitor Adjustable Reset Timeout Delay*	SOT-23-5	3280.00/2,500		
MAX6457UKD3C+TCT-ND	High Voltage, Low Current Voltage Monitor*	SOT-23-5	2.86	2.16	1.89
MAX6457UKD3C+TTR-ND	High Voltage, Low Current Voltage Monitor*	SOT-23-5	4320.00/2,500		
MAX6711LEXS+TCT-ND	4.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6711LEXS+TTR-ND	4.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	3480.00/2,500		
MAX6711REXS+TCT-ND	2.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6711REXS+TTR-ND	2.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	3480.00/2,500		
MAX6711SEXS+TCT-ND	2.93V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6711SEXS+TTR-ND	2.93V, MPU Reset Circuit with Manual Reset Input*	SC70-4	3480.00/2,500		
MAX6711TEXS+TCT-ND	3.08V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6711TEXS+TTR-ND	3.08V, MPU Reset Circuit with Manual Reset Input*	SC70-4	3480.00/2,500		
MAX6711ZEXS+TCT-ND	2.32V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6711ZEXS+TTR-ND	2.32V, MPU Reset Circuit with Manual Reset Input*	SC70-4	3480.00/2,500		
MAX6713LEXS+TCT-ND	4.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6713LEXS+TTR-ND	4.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	3480.00/2,500		
MAX6713MEXS+TCT-ND	4.38V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6713MEXS+TTR-ND	4.38V, MPU Reset Circuit with Manual Reset Input*	SC70-4	3480.00/2,500		
MAX6713REXS+TCT-ND	2.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6713REXS+TTR-ND	2.63V, MPU Reset Circuit with Manual Reset Input*	SC70-4	3480.00/2,500		
MAX6713SEXS+TCT-ND	2.93V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6713SEXS+TTR-ND	2.93V, MPU Reset Circuit with Manual Reset Input*	SC70-4	3480.00/2,500		
MAX6713TEXS+TCT-ND	3.08V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6713TEXS+TTR-ND	3.08V, MPU Reset Circuit with Manual Reset Input*	SC70-4	3480.00/2,500		
MAX6713ZEXS+TCT-ND	2.32V, MPU Reset Circuit with Manual Reset Input*	SC70-4	2.31	1.74	1.53
MAX6713ZEXS+TTR-ND	2.32V, MPU Reset Circuit with Manual Reset Input*	SC70-4	3480.00/2,500		
MAX6746KA29+TCT-ND	2.925V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	2.86	2.16	1.89
MAX6746KA29+TTR-ND	2.925V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	4320.00/2,500		
MAX6746KA46+TCT-ND	4.625V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	2.86	2.16	1.89
MAX6746KA46+TTR-ND	4.625V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	4320.00/2,500		
MAX6747KA29+TCT-ND	2.925V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	2.86	2.16	1.89
MAX6747KA29+TTR-ND	2.925V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	4320.00/2,500		
MAX6747KA46+TCT-ND	4.625V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	2.86	2.16	1.89
MAX6747KA46+TTR-ND	4.625V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	4320.00/2,500		
MAX6749KA+TCT-ND	Adj., MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	2.86	2.16	1.89
MAX6749KA+TTR-ND	Adj., MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	4320.00/2,500		
MAX6750KA29+TCT-ND	2.925V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	3.58	2.70	2.37
MAX6750KA29+TTR-ND	2.925V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	5400.00/2,500		
MAX6751KA29+TCT-ND	2.925V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	3.58	2.70	2.37
MAX6751KA29+TTR-ND	2.925V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	5400.00/2,500		
MAX6752KA46+TCT-ND	4.625V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	3.58	2.70	2.37
MAX6752KA46+TTR-ND	4.625V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	5400.00/2,500		
MAX6753KA46+TCT-ND	4.625V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	3.58	2.70	2.37
MAX6753KA46+TTR-ND	4.625V, MPU Reset Circuit with Capacitor Adjustable Reset/Watchdog Timeout Delay*	SOT-23-8	5400.00/2,500		
MAX6775LTA+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2.07	1.56	1.37
MAX6775LTA+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	3120.00/2,500		
MAX6776LTA+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2.07	1.56	1.37
MAX6776LTA+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	3120.00/2,500		
MAX6777LT+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2.07	1.56	1.37
MAX6777LT+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	3120.00/2,500		
MAX6778XK+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	SC70-5	2.07	1.56	1.37
MAX6778XK+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	SC70-5	3120.00/2,500		
MAX6779LTC+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2.60	1.96	1.72
MAX6779LTC+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	3920.00/2,500		
MAX6780LTB+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2.60	1.96	1.72
MAX6780LTB+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	3920.00/2,500		
MAX6781LTB+TCT-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	2.60	1.96	1.72
MAX6781LTB+TTR-ND	Low-Power, 1% Accurate Battery Monitor*	6-µDFN	3920.00/2,500		
MAX6841DUKD0+TCT-ND	0.788V, Reset Circuit and Voltage Detector*	SOT-23-5	2.76	2.08	1.82
MAX6841DUKD0+TTR-ND	0.788V, Reset Circuit and Voltage Detector*	SOT-23-5	4160.00/2,500		
MAX6841FUKD3+TCT-ND	1.050V, Reset Circuit and Voltage Detector*	SOT-23-5	2.76	2.08	1.82
MAX6842HUKD0+TCT-ND	1.313V, Reset Circuit and Voltage Detector*	SOT-23-5	2.76	2.08	1.82
MAX6842HUKD0+TTR-ND	1.313V, Reset Circuit and Voltage Detector*	SOT-23-5	4160.00/2,500		
MAX6843UKD0+TCT-ND	Adj., Reset Circuit and Voltage Detector*	SOT-23-5	2.76	2.08	1.82
MAX6843UKD0+TTR-ND	Adj., Reset Circuit and Voltage Detector*	SOT-23-5	4160.00/2,500		
MAX6844UKD3+TCT-ND	Adj., Reset Circuit and Voltage Detector*	SOT-23-5	2.76	2.08	1.82
MAX6844UKD3+TTR-ND	Adjustable, Reset Circuit and Voltage Detector*	SOT-23-5	4160.00/2,500		
MAX6845UKD3+TCT-ND	Adjustable, Reset Circuit and Voltage Detector*	SOT-23-5	2.76	2.08	1.82
MAX6845UKD3+TTR-ND	Adjustable, Reset Circuit and Voltage Detector*	SOT-23-5	4160.00/2,500		
MAX8213ACPE-ND	Five Universal Voltage Monitors with Open-Drain Outputs	16-Dip	7.23	5.46	3.50

SWITCHES AND MULTIPLEXERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DG201ACJ+-ND	Quad SPST CMOS Normally Closed Analog Switch*	16-Dip	4.85	3.66	2.16
DG211CJ+-ND	Quad SPST CMOS Normally Closed Analog Switch*	16-Dip	3.45	2.60	1.85
DG211CSE+-ND	Quad SPST CMOS Normally Closed Analog Switch*	16-SOIC	2.76	2.08	1.61
DG212CJ+-ND	Quad SPST CMOS Normally Open Analog Switch*	16-Dip	3.45	2.60	1.85
DG303ACWE+-ND	Dual Analog CMOS Switch*	16-SOIC	11.85	8.94	5.26
DG305ACJ-ND	SPDT Low Power Analog CMOS Switch	14-Dip	6.47	4.88	2.87
DG403CY+-ND	Dual SPDT High Speed Analog Switch* ***NEW!***	16-SOIC	9.51	7.18	4.21
DG403DJ+-ND	Dual SPDT High Speed Analog Switch*	16-Dip	8.35	6.30	3.78
DG403DY+-ND	Dual SPDT High Speed Analog Switch*	16-SOIC	10.02	7.56	5.40
DG406DJ+-ND	16-Channel CMOS Analog Multiplexer*	28-Dip	12.35	9.32	6.66
DG413DY+-ND	SPST, Quad Two Normally Closed and Two Normally Open Analog CMOS Switch*	16-SOIC	7.23	5.46	3.90
DG418DY+-ND	Precision CMOS Analog Switch*	8-SOIC	3.26	2.46	1.75
DG419CJ+-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch*	8-Dip	3.60	2.72	1.60
DG419CY+-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch*	8-SOIC	4.32	3.26	2.33
DG419DJ-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch	8-Dip	3.79	2.86	2.04
DG419DJ+-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch*	8-Dip	3.79	2.86	2.04
DG419DY+-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch*	8-SOIC	4.56	3.44	2.45
DG508ACJ+-ND	Monolithic CMOS Analog 1-to-8 Multiplexer*	16-Dip	5.70	4.30	3.06
DG509ACJ+-ND	Monolithic CMOS Analog 2-to-8 Multiplexer*	16-Dip	5.70	4.30	3.06
HI3-0201-5-ND	Quad SPST CMOS Analog Switch	16-Dip	5.64	4.26	2.84
HI6-0201-5-ND	Quad SPST CMOS Analog Switch	16-SOIC	6.41	4.84	3.23
IH5043CPE+-ND	Dual SPDT General Purpose CMOS Analog Switch*	16-Dip	7.10	5.36	3.15
IH5352CPE-ND	SPST, Quad RF/Video Switch	16-Dip	14.07	10.62	6.25
IH5352CPE+-ND	SPST, Quad RF/Video Switch*	16-Dip	14.07	10.62	6.25
MAX301CPE-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPST)	16-Dip	4.58	3.46	2.47
MAX301CSE+-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPST)*	16-SOIC	5.51	4.16	2.97
MAX303CPE+-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPDT)*	16-Dip	9.65	7.28	5.22
MAX303CSE-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPDT)	16-SOIC	11.55	8.72	6.24
MAX303CSE+-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPDT)*	16-SOIC	11.55	8.72	6.24
MAX303ESE+-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPDT)*	16-SOIC	12.16	9.18	5.40
MAX305CPE+-ND	Precision Dual, Matched CMOS Switches (DPST, NO)*	16-Dip	9.65	7.28	4.28
MAX305CSE-ND	Precision Dual, Matched CMOS Switches (DPST, NO)	16-SOIC	11.55	8.72	6.24
MAX306CPI+-ND	Precision 16-Channel High Performance CMOS Analog Mux*	28-Dip	11.53	8.70	6.21
MAX306CWI+-ND	Precision 16-Channel High Performance CMOS Analog Mux*	28-SOIC	15.90	12.00	8.58
MAX306EUI+-ND	Precision 16-Ch. High Performance CMOS Analog Mux*	28-TSSOP	20.67	15.60	9.18
MAX307CPI-ND	Precision Dual 8-Ch. High Performance CMOS Analog Mux	28-Dip	11.53	8.70	6.21
MAX307CPI+-ND	Precision Dual 8-Ch. High Performance CMOS Analog Mux*	28-Dip	11.53	8.70	6.21
MAX307CWI+-ND	Precision Dual 8-Ch. High Performance CMOS Analog Mux*	28-SOIC	15.90	12.00	8.58
MAX308CPE+-ND	Precision 8-Channel, High Performance CMOS Analog Mux*	16-Dip	7.47	5.64	4.04
MAX308CSE+-ND	Precision 8-Channel, High Performance CMOS Analog Mux*	16-SOIC	8.96	6.76	4.84
MAX308ESE+-ND	Precision 8-Channel, High Performance CMOS Analog Mux*	16-SOIC	9.33	7.04	4.14
MAX309CPE+-ND	Precision Dual 4-Ch. High Performance CMOS Analog Mux*	16-Dip	7.47	5.64	4.04
MAX309CSE+-ND	Precision Dual 4-Ch. High Performance CMOS Analog Mux*	16-SOIC	8.96	6.76	4.84
MAX310CPE+-ND	CMOS RF/Video Mux*	16-Dip	17.25	13.02	7.66
MAX313CSE+-ND	CMOS Analog Switch, Quad, SPST*	16-SOIC	10.71	8.08	4.75
MAX317CSA-ND	Precision SPST Normally Closed CMOS Analog Switch	8-SOIC	3.74	2.82	2.02
MAX317CSA+-ND	Precision SPST Normally Closed CMOS Analog Switch*	8-SOIC	3.74	2.82	2.02
MAX318CPA+-ND	Precision SPST Normally Open Analog Switch*	8-Dip	3.21	2.42	1.74
MAX318CSA+-ND	Precision SPST Normally Open Analog Switch*	8-SOIC	3.74	2.82	2.02
MAX319CPA+-ND	Precision SPDT CMOS Analog Switch*	8-Dip	4.29	3.24	2.31
MAX319CSA+-ND	Precision SPDT CMOS Analog Switch*	8-SOIC	4.74	3.58	2.56
MAX319ESA+-ND	Precision SPDT CMOS Analog Switch*	8-SOIC	5.51	4.16	2.45
MAX323CPA+-ND	Precision, Single Supply, SPST Analog Switch*	8-Dip	2.97	2.24	1.32
MAX323CSA+-ND	Precision, Single Supply, SPST Analog Switch*	8-SOIC	3.26	2.46	1.57
MAX326CPE-ND	Quad SPST, Ultra-Low Leakage, CMOS Analog Switch	16-Dip	8.69	6.56	4.37
MAX326CPE+-ND	Quad SPST, Ultra-Low Leakage, CMOS Analog Switch*	16-Dip	8.69	6.56	4.37
MAX326CSE+-ND	Quad SPST, Ultra-Low Leakage, CMOS Analog Switch*	16-SOIC	9.54	7.20	4.80
MAX328CPE+-ND	8-Channel Ultra-Low Leakage Mono CMOS Multiplexer*	16-Dip	11.32	8.54	5.69
MAX328CWE+-ND	8-Channel Ultra-Low Leakage Mono CMOS Multiplexer*	16-SOIC	12.43	9.38	6.26
MAX328EWE+-ND	8-Channel Ultra-Low Leakage Mono CMOS Multiplexer*	16-SOIC	14.71	11.10	8.82
MAX329CPE+-ND	Diff. 4-Channel Ultra-Low Leakage Mono CMOS Mux*	16-Dip	11.32	8.54	5.69
MAX329CWE+-ND	Diff. 4-Channel Ultra-Low Leakage Mono CMOS Mux*	16-SOIC	12.43	9.38	6.26
MAX333ACPP+-ND	Quad SPDT CMOS Analog Switch*	20-Dip	8.00	6.04	4.03
MAX333ACUP+-ND	Quad SPDT CMOS Analog Switch*	20-TSSOP	9.46	7.14	4.77
MAX333ACWP+-ND	Quad SPDT CMOS Analog Switch*	20-SOIC	10.34	7.80	5.20
MAX333AEUP+-ND	Quad SPDT CMOS Analog Switch*	20-TSSOP	10.41	7.86	5.24
MAX333AEWP+-ND	Quad SPDT CMOS Analog Switch*	20-SOIC	13.14	9.92	6.61
MAX333CPP+-ND	Quad SPDT CMOS Analog Switch*	20-Dip	7.21	5.44	3.63
MAX333CWP+-ND	Quad SPDT CMOS Analog Switch*	20-SOIC	9.30	7.02	4.68
MAX335CNG+-ND	Serial Controlled, 8-Channel SPST Switch*	24-Dip	7.10	5.36	3.44
MAX335CWG+-ND	Serial Controlled, 8-Channel SPST Switch*	24-SOIC	7.79	5.88	3.78
MAX335EWG+-ND	Serial Controlled, 8-Channel SPST Switch*	24-SOIC	8.59	6.48	3.89
MAX336CAI+-ND	16-Channel, Low-Leakage, CMOS Analog Multiplexer*	28-SSOP	11.16	8.42	4.95
MAX338ESE+-ND	8-Channel, Low-Leakage, CMOS Analog Multiplexer*	16-SOIC	8.19	6.18	4.36
MAX349CAP+-ND	8-Channel, Serially Controlled, Low-Voltage Multiplexer*	20-SSOP	8.22	6.20	3.64
MAX351CPE+-ND	Precision Quad SPST Analog Switch Normally Closed*	16-Dip	6.60	4.98	2.93
MAX351CSE+-ND	Precision Quad SPST Analog Switch Normally Closed*	16-SOIC	8.56	6.46	4.62
MAX352CPE+-ND	Precision Quad SPST Analog Switch Normally Open*	16-Dip	6.60	4.98	2.93
MAX352CSE+-ND	Precision Quad SPST Analog Switch Normally Open*	16-SOIC	8.56	6.46	4.62
MAX352ESE+-ND	Precision Quad SPST Analog Switch Normally Open*	16-SOIC	8.80	6.64	3.90
MAX353CPE-ND	Precision Quad SPST Analog Switch 2 Normally Closed and 2 Normally Open	16-Dip	6.60	4.98	3.56
MAX353CPE+-ND	Precision Quad SPST Analog Switch 2 Normally Closed and 2 Normally Open*	16-Dip	6.60	4.98	2.93
MAX353CSE+-ND	Precision Quad SPST Analog Switch 2 Normally Closed and 2 Normally Open*	16-SOIC	8.56	6.46	4.62
MAX354CWE+-ND	Single 8-Channel Fault Protected Analog Multiplexer*	16-SOIC	10.84	8.18	5.25
MAX355CPE+-ND	Dual 4-Channel Fault Protected Analog Multiplexer*	16-Dip	10.84	8.18	5.25
MAX355CWE+-ND	Dual 4-Channel Fault Protected Analog Multiplexer*	16-SOIC	10.84	8.18	5.25
MAX358CPE+-ND	Fault Protected 8-Channel Multiplexer*	16-Dip	10.84	8.18	5.25
MAX358CWE+-ND	Fault Protected 8-Channel Multiplexer*	16-SOIC	10.84	8.18	5.25
MAX359CPE+-ND	Fault Protected Differential 4-Channel Multiplexer*	16-Dip	10.84	8.18	5.25
MAX359CWE+-ND	Fault Protected Differential 4-Channel Multiplexer*	16-SOIC	10.84	8.18	5.25
MAX361CSE+-ND	Precision Quad SPST Analog Switch N/C 3-Ohm Tolerance*	16-SOIC	7.00	5.28	3.79
MAX362CPE-ND	Precision Quad SPST Analog Switch N/O 3-Ohm Tolerance	16-Dip	5.80	4.38	3.13
MAX364CPE-ND	Precision Quad SPST Analog Switch N/C 2-Ohm Tolerance	16-Dip	3.42	2.58	1.85
MAX364CPE+-ND	Precision Quad SPST Analog Switch N/C 2-Ohm Tolerance*	16-Dip	3.42	2.58	1.99
MAX364CSE+-ND	Precision Quad SPST Analog Switch N/C 2-Ohm Tolerance*	16-SOIC	3.42	2.58	1.85
MAX365CPE-ND	Precision Quad SPST Analog Switch N/O 2-Ohm Tolerance	16-Dip	3.42	2.58	1.85
MAX365CSE+-ND	Precision Quad SPST Analog Switch N/O 2-Ohm Tolerance*	16-SOIC	3.42	2.58	1.85
MAX378CPE+-ND	High Voltage, Fault Protected Analog Multiplexer*	16-Dip	15.90	12.00	7.05
MAX388CPN-ND	8-Channel, High Voltage, Fault-Protected Multiplexer	18-Dip	17.33	13.08	8.39

** RoHS Compliant*

(Continued)

SWITCHES AND MULTIPLEXERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX391CSE+-ND	Prec., Quad, SPST Analog Four Normally Closed Switches*	16-SOIC	4.29	3.24	2.08
MAX394CPP+-ND	Low Voltage Quad SPDT CMOS Analog Switch*	20-Dip	9.09	6.86	4.03
MAX394CWP+-ND	Low Voltage Quad SPDT CMOS Analog Switch*	20-SOIC	11.71	8.84	5.90
MAX396CAI+-ND	Precision, 16-Channel, Low-Voltage, CMOS Analog Mux*	28-SSOP	15.85	11.96	8.54
MAX4051ACPE+-ND	8-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-Dip	4.37	3.30	2.11
MAX4051ACSE+-ND	8-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-SOIC	4.05	3.06	1.96
MAX4051CSE+-ND	8-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-SOIC	3.13	2.57	2.04
MAX4052ACEE+-ND	Dual 4-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-QSOP	4.82	3.64	2.34
MAX4052AEEE-ND	Dual 4-Channel, Low-Voltage, CMOS Analog Mux/Switch	16-QSOP	6.28	4.74	3.04
MAX4052AEEE+-ND	Dual 4-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-QSOP	6.28	4.74	3.04
MAX4066CPD-ND	Low-Voltage, Quad, SPST, CMOS Analog Switch	14-Dip	2.28	1.72	1.10
MAX4066CPD+-ND	Low-Voltage, Quad, SPST, CMOS Analog Switch*	14-Dip	2.28	1.72	1.10
MAX4526CSA+-ND	Phase-Reversal Analog Switch*	8-SOIC	5.70	4.30	2.53
MAX4533CAP+-ND	Quad, Rail-to-Rail, Fault-Protected SPDT Analog Switch*	20-SSOP	8.51	6.42	3.78
MAX4537ESE-ND	Quad, Low-Voltage, SPST Analog Switch	16-SOIC	2.84	2.14	1.26
MAX4542EUA+-ND	Dual SPST NC Low-Voltage Analog Switch*	8-µMAX	1.64	1.24	.73
MAX4544CPA-ND	Dual SPDT Low-Voltage Analog Switch	8-Dip	1.56	1.18	.70
MAX4544CPA+-ND	Dual SPDT Low-Voltage Analog Switch*	8-Dip	1.56	1.18	.69
MAX4544CSA+-ND	Dual SPDT Low-Voltage Analog Switch*	8-SOIC	1.56	1.18	.70
MAX4544ESA+-ND	Dual SPDT Low-Voltage Analog Switch*	8-SOIC	1.56	1.18	.70
MAX4544EUT+TCT-ND	Dual SPDT Low-Voltage Analog Switch*	SOT-23-6	1.67	1.26	1.11
MAX4544EUT+TTR-ND	Dual SPDT Low-Voltage Analog Switch*	SOT-23-6	2520.00/2,500		
MAX4567CSE-ND	Dual SPDT Low-Voltage, Bidirectional RF/Video Switch	16-SOIC	4.40	3.32	1.95
MAX4567CSE+-ND	Dual SPDT Low-Voltage, Bidirectional RF/Video Switch*	16-SOIC	4.40	3.32	1.95
MAX4582ESE+-ND	Low-Voltage, CMOS Analog Multiplexer/Switch*	16-SOIC	1.72	1.30	.77
MAX4599EXT+TCT-ND	Low-Voltage, Single-Supply SPDT Analog Switch*	SC70-6	1.56	1.18	1.04
MAX4599EXT+TTR-ND	Low-Voltage, Single-Supply SPDT Analog Switch*	SC70-6	2360.00/2,500		
MAX4614CSD+-ND	Quad SPST Low-Voltage, High Speed CMOS Analog Switch*	14-SOIC	2.33	1.76	1.04
MAX4617CUE+-ND	8-Channel, High Speed, Low-Voltage, CMOS Analog Mux*	16-TSSOP	2.70	2.04	1.23
MAX4618CSE-ND	Dual 4-Channel HS, Low-Voltage, CMOS Analog Mux	16-SOIC	2.39	1.80	1.06
MAX4618CSE+-ND	Dual 4-Channel HS, Low-Voltage, CMOS Analog Mux*	16-SOIC	2.39	1.80	1.06
MAX4619CPE+-ND	Triple SPDT, High Speed, Low-Voltage, CMOS Analog Switch*	16-Dip	2.39	1.80	1.08
MAX4619CSE+-ND	Triple SPDT, HS, Low-Voltage, CMOS Analog Switch*	16-SOIC	2.39	1.80	1.08
MAX4622CSE+-ND	SPDT Dual 5-Ohm Analog Switch*	16-SOIC	5.25	3.96	2.33
MAX4622ESE+-ND	SPDT Dual 5-Ohm Analog Switch*	16-SOIC	5.78	4.36	2.57
MAX4624EUT+TCT-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch*	SOT-23-6	2.65	2.00	1.75
MAX4624EZT+TCT-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch*	SOT-23-6	2.65	2.00	1.75
MAX4624EZT+TTR-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch*	SOT-23-6	4000.00/2,500		
MAX4625EUT-TCT-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch	SOT-23-6	2.65	2.00	1.75
MAX4625EUT+TCT-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch*	SOT-23-6	2.65	2.00	1.75
MAX4625EUT+TTR-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch*	SOT-23-6	4000.00/2,500		
MAX4626EUK+TCT-ND	0.5-Ohm, Low-Voltage Single-Supply SPST Analog Switch*	SOT-23-5	2.52	1.90	1.67
MAX4626EUK+TTR-ND	0.5-Ohm, Low-Voltage Single-Supply SPST Analog Switch*	SOT-23-5	3800.00/2,500		
MAX4634EUB+-ND	4-Ohm, Low-Voltage 4-Channel, CMOS Analog Mux*	10-µMAX	2.89	2.18	1.28
MAX4636EUB+-ND	4-Ohm, Low-Voltage SPDT CMOS Analog Switch*	10-µMAX	2.76	2.08	1.22
MAX4644EUT+TCT-ND	4-Ohm, Low-Voltage SPDT CMOS Analog Switch*	SOT-23-6	1.83	1.38	1.21
MAX4644EUT+TTR-ND	4-Ohm, Low-Voltage SPDT CMOS Analog Switch*	SOT-23-6	2760.00/2,500		
MAX4648EUT-TCT-ND	25-Ohm, SPST Analog Switch	SOT-23-6	3.10	2.34	2.05
MAX4648EUT+TCT-ND	25-Ohm, SPST Analog Switch*	SOT-23-6	3.10	2.34	2.05
MAX4648EUT+TTR-ND	25-Ohm, SPST Analog Switch*	SOT-23-6	4680.00/2,500		
MAX4649EKA+TCT-ND	45-Ohm, SPDT Analog Switch*	SOT-23-8	3.39	2.56	2.24
MAX4649EKA+TTR-ND	45-Ohm, SPDT Analog Switch*	SOT-23-8	5120.00/2,500		
MAX4661CAE+-ND	2.5-Ohm, Quad, SPST, CMOS Analog Switch*	16-SSOP	9.91	7.48	4.40
MAX4685EUB+-ND	0.8-Ohm, Low-Voltage, Dual SPDT Analog Switch*	10-µMAX	3.50	2.64	1.55
MAX4717EBC+TCT-ND	300MHz Bandwidth Dual SPDT Analog Switch*	12-UCSP	2.73	2.06	1.81
MAX4717EBC+TTR-ND	300MHz Bandwidth Dual SPDT Analog Switch*	12-UCSP	4120.00/2,500		
MAX4729ELT+TCT-ND	3.5-Ohm Low-Voltage SPDT CMOS Analog Switch*	6-µDFN	1.99	1.50	1.32
MAX4729ELT+TTR-ND	3.5-Ohm Low-Voltage SPDT CMOS Analog Switch*	6-µDFN	3000.00/2,500		
MAX4780ETE+TCT-ND	0.7-Ohm Low-Voltage Quad 2:1 Analog Multiplexer*	16-QFN	4.48	3.38	2.96
MAX4780ETE+TTR-ND	0.7-Ohm Low-Voltage Quad 2:1 Analog Multiplexer*	16-QFN	6760.00/2,500		
MAX4781ETE+TCT-ND	0.7-Ohm Low-Voltage Quad 2:1 Analog Multiplexer*	16-TQFN	4.13	3.12	2.73
MAX4781ETE+TTR-ND	0.7-Ohm Low-Voltage Quad 2:1 Analog Multiplexer*	16-TQFN	6240.00/2,500		
MAX4782ETE+TCT-ND	0.7-Ohm CMOS Analog Switch/Multiplexer*	16-TQFN	4.13	3.12	2.73
MAX4782ETE+TTR-ND	0.7-Ohm CMOS Analog Switch/Multiplexer*	16-TQFN	6240.00/2,500		
MAX4927ETN+-ND	1000 Base-T, ±15kV ESD Protected LAN Switch*	56-TQFN	5.72	4.32	2.54

SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ICL7107CPL+-ND	3-1/2 Digit A/D Converter*	40-Dip	12.16	9.18	5.40
ICL7109CPL+-ND	12-Bit ADC with Tri-State Binary Outputs*	40-Dip	13.04	9.84	6.31
ICL7129ACPL+2-ND	4-1/2 Digit ADC Multiplexer Driver*	40-Dip	15.53	11.72	7.81
ICL7129ACPL-2-ND	4-1/2 Digit ADC Multiplexer Driver	40-Dip	15.53	11.72	7.81
ICL7137CPL+-ND	Low Power, 3-1/2 Digit ADC*	40-Dip	12.16	9.18	5.89
ICL7660CSA+-ND	CMOS Switch Capacitor Voltage Converter*	8-SOIC	2.86	2.16	1.54
ICL7660ESA+-ND	Switched-Capacitor Voltage Converter*	8-SOIC	4.11	3.10	2.21
ICL7662CPA+-ND	CMOS Voltage Converter*	8-Dip	3.42	2.58	1.99
ICL7665ACPA+-ND	Under/Over Voltage Detector*	8-Dip	4.93	3.72	2.38
ICL7665ACSA+-ND	Under/Over Voltage Detector*	8-SOIC	5.43	4.10	2.93
ICM7212AMIPL+-ND	4-Digit Display Decoder/Driver*	40-Dip	5.75	4.34	2.79
ICM7217AIPI+-ND	4-Digit Presettable Up/Down Counter*	28-Dip	13.86	10.46	6.15
ICM7217CIPI-ND	4-Digit Presettable Up/Down Counter	28-Dip	13.86	10.46	6.15
ICM7218AIPI+-ND	8-Digit Multiplexer LED Decoder/Driver*	28-Dip	11.74	8.86	6.00
ICM7218BIPI+-ND	8-Digit Multiplexer LED Decoder/Driver*	28-Dip	11.74	8.86	5.19
ICM7218CIPI+-ND	8-Digit Multiplexer LED Decoder/Driver*	28-Dip	11.74	8.86	5.19
ICM7224IPL+-ND	4-1/2 Digit Counter/Decoder/Driver*	40-Dip	18.23	13.76	8.05
ICM7242IPA+-ND	Fixed Timer/Counter*	8-Dip	3.79	2.86	1.98
ICM7250IPE+-ND	Programmable RC Timer*	16-Dip	5.41	4.08	2.72
ICM7555IPA+-ND	CMOS General Purpose Timer*	8-Dip	2.49	1.88	1.25
ICM7556IPD+-ND	Dual General Purpose RC Timer*	14-Dip	3.76	2.84	1.67
ICM7556ISD+-ND	Dual General Purpose RC Timer*	14-SOIC	3.39	2.56	1.51
MAX274BCNG+-ND	8th-Order Analog Filter*	24-Dip	13.62	10.28	6.59
MAX274BCWI+-ND	8th-Order Analog Filter*	28-SOIC	13.62	10.28	6.59
MAX274BCWI-ND	8th-Order Analog Filter	28-SOIC	13.62	10.28	6.59
MAX275BCPP-ND	4th-Order Analog Filter	20-Dip	8.51	6.42	4.11
MAX275BCPP+-ND	4th-Order Analog Filter*	20-Dip	8.51	6.42	3.78
MAX275BCWP+-ND	4th-Order Analog Filter*	20-SOIC	8.51	6.42	3.78
MAX280CWE-ND	5th-Order Zero-Error, Butterworth Switched Cap LP Filter	16-SOIC	11.50	8.68	5.57
MAX280CWE+-ND	5th-Order Zero-Error, Butterworth Switched Cap LP Filter*	16-SOIC	11.50	8.68	6.19
MAX281ACPA+-ND	5th-Order Zero Error, Bessel Lowpass Filter*	8-Dip	14.02	10.58	7.31
MAX281ACWE-ND	5th-Order Zero Error, Bessel Lowpass Filter	16-SOIC	14.02	10.58	6.79
MAX281ACWE+-ND	5th-Order Zero Error, Bessel Lowpass Filter*	16-SOIC	14.02	10.58	7.31
MAX281AEWE+-ND	5th-Order Zero Error, Bessel Lowpass Filter*	16-SOIC	18.23	13.76	8.09
MAX1406CPE+-ND	230kbps, 3 Transmitters/3 Receivers, ESD Protected*	16-Dip	3.07	2.32	1.36
MAX1406CWE+-ND	230kbps, 3 Transmitters/3 Receivers, ESD Protected*	16-SOIC	3.07	2.32	1.36
MAX1472AKA+TCT-ND	300MHz/450MHz Low Power, ASK Transmitter*	SOT-23-8	3.13	2.57	2.04
MAX1472AKA+TTR-ND	300MHz/450MHz Low Power, ASK Transmitter*	SOT-23-8	4720.00/2,500		
MAX1473EUI+-ND	315MHz/433MHz ASK Superheterodyne Receiver*	28-TSSOP	5.46	4.12	2.64
MAX1479ATE+-ND	300MHz/450MHz Low Power, ASK/FSK Transmitter*	16-TQFN-EP	3.15	2.38	1.53
MAX1585ETJ+-ND	5-Channel Slim DSC Power Supply*	32-QFN	7.08	5.34	3.15
MAX1617AMEE+-ND	Remote/Local Temp. Sensor with SMBus Serial Interface*	16-QSOP	10.12	7.64	4.49
MAX1617MEE+-ND	Remote/Local Temp. Sensor with SMBus Serial Interface*	16-QSOP	10.12	7.64	4.49
MAX1856EUB+-ND	Wide Input Range, Sync. PWM SLIC Power Supply*	10-µMAX	4.27	3.22	1.90
MAX1951ESA+-ND	2A PWM Step-Down DC/DC Regulator*	8-SOIC	3.76	2.84	1.67
MAX1999EEI+-ND	High Efficiency, Quad Output, Main Power Supply Controller for Notebook Computers*	28-QSOP	12.59	9.50	5.56
MAX2021ETX+-ND	High Dynamic Range, Direct Up/Down Conversion Quad 750MHz to 1200MHz Mod/Demod*	36-TQFN-EP	14.26	10.76	6.30
MAX2022ETX+-ND	High Dynamic Range, Direct Up Conversion 1500MHz to 2500MHz Quad Modulator*	36-TQFN-EP	14.26	10.76	6.30
MAX2027EUP+D-ND	IF Digitally Controlled Variable-Gain Amp*	28-TSSOP	13.57	10.24	6.00
MAX2058ETL+-ND	700MHz to 1200MHz High Linearity, SPI Controlled DVGA with Integrated Loopback Mixer*	40-TQFN-EP	22.79	17.20	10.07
MAX2059ETL+-ND	1700MHz to 2200MHz High Linearity, SPI Controlled DVGA with Integrated Loopback Mixer*	40-TQFN-EP	22.79	17.20	10.07
MAX3371EXT+TCT-ND	1µA, 2Mbps, Low Voltage Level Translator*	SC70-6	2.20	1.66	1.46
MAX3371EXT+TTR-ND	1µA, 2Mbps, Low Voltage Level Translator*	SC70-6	3320.00/2,500		
MAX3535ECWI+-ND	3V to 5V, RS-485/RS-422 Transceiver*	28-SOIC	13.14	9.92	6.37
MAX3656ETG+-ND	155Mbps to 2.5Gbps Burst-Mode Laser Driver*	24-QFN-EP	5.11	3.86	2.96
MAX3869EHJ+-ND	+3.3V, 2.5Gbps SDH/SONET Laser Driver*	32-TQFP	23.66	17.86	13.67
MAX4002EUA+-ND	2.5GHz, 45dB RF Detecting Controller*	8-µMAX	3.39	2.56	2.11
MAX4003EUA+-ND	100MHz to 2500MHz, 45dB RF Detector*	8-µMAX	2.46	1.86	1.09
MAX4018EEE+-ND	High Speed, Triple Op Amp with Rail-to-Rail Output*	16-QSOP	4.77	3.60	2.12
MAX4020ESD+-ND	High Speed, Quad Op Amp with Rail-to-Rail Output*	14-SOIC	5.43	4.10	2.41
MAX4028EUE+TCT-ND	Video Multiplexer Amp with Input Clamps*	16-TSSOP	5.19	3.92	3.43
MAX4028EUE+TTR-ND	Video Multiplexer Amp with Input Clamps*	16-TSSOP	7840.00/2,500		
MAX4029EUP+TCT-ND	Video Multiplexer Amp with Input Clamps*	20-TSSOP	6.20	4.68	4.10
MAX4029EUP+TTR-ND	Video Multiplexer Amp with Input Clamps*	20-TSSOP	9360.00/2,500		
MAX4090AAXT+TCT-ND	+3V/+5V, 6dB Video Buffer*	SC70-6	1.22	.92	.81
MAX4090AAXT+TTR-ND	+3V/+5V, 6dB Video Buffer*	SC70-6	1840.00/2,500		
MAX4144ESD+-ND	High-Speed, Low-Distortion, Differential Line Receiver*	14-SOIC	6.36	4.80	2.83
MAX4145ESD+-ND	High-Speed, Low-Distortion, Differential Line Receiver*	14-SOIC	6.36	4.80	2.83
MAX5401EKA-TCT-ND	256-Tap SOT-PoT, Low Drift Digital Potentiometer	SOT-23-8	2.68	2.02	1.77
MAX5401EKA+TCT-ND	256-Tap SOT-PoT, Low Drift Digital Potentiometer*	SOT-23-8	2.57	1.94	1.70
MAX5401EKA+TTR-ND	256-Tap SOT-PoT, Low Drift Digital Potentiometer*	SOT-23-8	3880.00/2,500		
MAX5932ESA+-ND	Positive High-Voltage, Hot-Swap Controller*	8-SOIC	4.66	3.52	2.26
MAX5947BESA+-ND	Positive High-Voltage, Hot-Swap Controller*	8-SOIC	5.09	3.84	2.46
MAX5948AESA+-ND	-48V Hot-Swap Controller with External RSENSE*	8-SOIC	4.05	3.06	1.96
MAX5948BESA+-ND	-48V Hot-Swap Controller with External RSENSE*	8-SOIC	4.05	3.06	1.96
MAX5949AESA+-ND	-48V Hot-Swap Controller with External RSENSE*	8-SOIC	4.45	3.36	2.15
MAX5949BESA+-ND	-48V Hot-Swap Controller with External RSENSE*	8-SOIC	4.45	3.36	2.15
MAX5953AUTM+-ND	IEEE 802.3af PD Interface and PWM Controller*	48-TQFN	8.72	6.58	3.85
MAX5952AEAX+-ND	Quad PSE Controller for Power-Over-Ethernet*	36-SSOP	22.68	17.12	10.02
MAX5952AUAX+-ND	Quad PSE Controller for Power-Over-Ethernet*	36-SSOP	21.57	16.28	9.53
MAX5952CEAX+-ND	Quad PSE Controller for Power-Over-Ethernet*	36-SSOP	22.68	17.12	10.02
MAX5952CUAX+-ND	Quad PSE Controller for Power-Over-Ethernet*	36-SSOP	21.57	16.28	9.53
MAX5957AETN+-ND	Triple PCI Express, Hot-Plug Controller*	56-TQFN	15.05	11.36	6.65
MAX5958AETN+-ND	Triple PCI Express, Hot-Plug Controller*	56-TQFN	15.05	11.36	6.65
MAX5959AECS+-ND	Quad PCI Express, Hot-Plug Controller*	80-TQFP	18.05	13.62	7.97
MAX5959LECS+-ND	Quad PCI Express, Hot-Plug Controller*	80-TQFP	18.05	13.62	7.97
MAX5960AECS+-ND	Quad PCI Express, Hot-Plug Controller*	80-TQFP	18.05	13.62	7.97
MAX5960LECS+-ND	Quad PCI Express, Hot-Plug Controller*	80-TQFP	18.05	13.62	7.97
MAX6002EUR+TCT-ND	2.5V, Low Power, LDO Voltage Reference*	SOT-23	1.03	.78	.69
MAX6002EUR+TTR-ND	2.5V, Low Power, LDO Voltage Reference*	SOT-23	1560.00/2,500		
MAX6012AEUR+TCT-ND	1.247V, Precision, Low Power, LDO Voltage Reference*	SOT-23	4.00	3.02	2.65
MAX6012AEUR+TTR-ND	1.247V, Precision, Low Power, LDO Voltage Reference*	SOT-23	6040.00/2,500		
MAX6141ESA+-ND	LDO Voltage Reference*	8-SOIC	3.02	2.28	1.34
MAX6145EUR+TCT-ND	4.5V, LDO 3-Terminal Voltage Reference*	SOT-23	3.02	2.28	2.00
MAX6145EUR+TTR-ND	4.5V, LDO 3-Terminal Voltage Reference*	SOT-23	4560.00/2,500		
MAX6192AESA-ND	2.5V, Precision, Micropower, LDO Voltage Reference	8-SOIC	6.28	4.74	2.78
MAX6192AESA+-ND	2.5V, Precision, Micropower, LDO Voltage Reference*	8-SOIC	5.75	4.34	2.55
MAX6225AEPA+-ND	Low-Noise, 2.5V Precision Voltage Reference*	8-Dip	12.56	9.48	6.08
MAX6225AESA+-ND	Low-Noise, 2.5V Precision Voltage Reference* ***NEW!***	8-SOIC	12.56	9.48	6.08
MAX6225BEPA+-ND	Low-Noise, 2.5V Precision Voltage Reference*	8-Dip	5.78	4.36	2.80
MAX6225BESA+-ND	Low-Noise, 2.5V Precision Voltage Reference* ***NEW!***	8-SOIC	5.78	4.36	2.80
MAX6241AESA+-ND	Low-Noise, 4.096V Precision Voltage Reference*	8-SOIC	13.70	10.34	6.64
MAX6241BEPA+-ND	Low-Noise, 4.096V Precision Voltage Reference*	8-Dip	6.31	4.76	3.06
MAX6241BESA+-ND	Low-Noise, 4.096V Precision Voltage Reference*	8-SOIC	6.31	4.76	3.06
MAX6250ACSA+-ND	Low-Noise, 5.0V Precision Voltage Reference*	8-SOIC	12.32	9.30	5.47
MAX6250AEPA+-ND	Low-Noise, 5.0V Precision Voltage Reference*	8-Dip	13.70	10.34	6.64
MAX6250AESA+-ND	Low-Noise, 5.0V Precision Voltage Reference*	8-SOIC	13.70	10.34	6.64
MAX6250BCPA+-ND	Low-Noise, 5.0V Precision Voltage Reference*	8-Dip	5.99	4.52	2.65
MAX6250BCSA+-ND	Low-Noise, 5.0V Precision Voltage Reference*	8-SOIC	5.99	4.52	2.65
MAX6250BESA+-ND	Low-Noise, 5.0V Precision Voltage Reference*	8-SOIC	6.31	4.76	3.06
MAX6369KA+TTR-ND	Pin-Selectable Watchdog Timer*	SOT-23-8	3520.00/2,500		
MAX6373KA-TCT-ND	Pin-Selectable Watchdog Timer	SOT-23-8	2.33	1.76	1.54
MAX6373KA+TCT-ND	Pin-Selectable Watchdog Timer*	SOT-23-8	2.33	1.76	1.54
MAX6373KA+TTR-ND	Pin-Selectable Watchdog Timer*	SOT-23-8	3520.00/2,500		
MAX6509HAUK+TCT-ND	Resistor Programmable Temperature Switch*	SOT-23-5	2.41	1.82	1.60
MAX6509HAUK+TTR-ND	Resistor Programmable Temperature Switch*	SOT-23-5	3640.00/2,500		
MAX6649MUA+-ND	Precision SMBus-Compatible Remote/Local Sensor* ***NEW!***	8-µMAX	6.76	5.10	2.99
MAX6651EEE+-ND	SMBus/I^{2}C Compatible Interface*	16-QSOP	7.79	5.88	3.38
MAX6674ISA+-ND	Thermocouple-to-Digital Converter*	8-SOIC	13.38	10.10	5.91
MAX6675ISA+-ND	Cold-Junction-Compensated K-Thermocouple-to-Digital Converter* ***NEW!***	8-SOIC	13.86	10.46	6.12
MAX6684ESA+-ND	Fan-Failure Detector with Integrated Power Switch* ***NEW!***	8-SOIC	3.52	2.66	1.56
MAX6791TPLD2+TCT-ND	High-Voltage, Micropower, Dual Linear Regulator with Supervisory Functions*	20-TQFN	4.29	3.24	2.84
MAX6816EUS+TCT-ND	Single CMOS Switch Debouncer, ESD Protected*	SOT-143	2.36	1.78	1.56
MAX6816EUS+TTR-ND	Single CMOS Switch Debouncer, ESD Protected*	SOT-143	3560.00/2,500		
MAX6817EUT+TCT-ND	Dual CMOS Switch Debouncer, ESD Protected*	SOT-23-6	3.52	2.66	2.33
MAX6817EUT+TTR-ND	Dual CMOS Switch Debouncer, ESD Protected*	SOT-23-6	5320.00/2,500		
MAX6818EAP+-ND	Octal, CMOS Switch Debouncer, ESD Protected*	20-SSOP	7.45	5.95	3.97
MAX6819UT+TCT-ND	Power Supply Sequencer*	SOT-23-6	4.37	3.30	2.89
MAX6819UT+TTR-ND	Power Supply Sequencer*	SOT-23-6	6600.00/2,500		

*** RoHS Compliant**

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SPECIALIZED INTEGRATED CIRCUITS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX6820UT+TCT-ND	Power Supply Sequencer*	SOT-23-6	3.58	2.70	2.37
MAX6820UT+TTR-ND	Power Supply Sequencer*	SOT-23-6	5400.00/2,500		
MAX6902ETA+TCT-ND	SPI-Compatible Real-Time Clock*	8-TDFN	5.35	4.04	3.54
MAX6902ETA+TTR-ND	SPI-Compatible Real-Time Clock*	8-TDFN	8080.00/2,500		
MAX6954AAX+-ND	4-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan*	36-SSOP	24.04	18.14	11.34
MAX6954APL-ND	4-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	40-Dip	24.04	18.14	11.34
MAX6955AAX+-ND	2-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan*	36-SSOP	24.04	18.14	11.34
MAX6956AAI+-ND	2-Wire Interfaced, 2.5V to 5.5V, 20-Port or 28-Port, LED Display Driver and I/O Expander*	28-SSOP	8.16	6.16	3.85
MAX6957AAI+-ND	4-Wire Interfaced, 2.5V to 5.5V, 20-Port and 28-Port, LED Display Driver and I/O Expander*	28-SSOP	8.16	6.16	3.85
MAX6974ATL+-ND	24-Output PWM LED Drivers*	48-TQFN-EP	25.47	19.22	11.31
MAX6975ATL+-ND	24-Output PWM LED Drivers*	48-TQFN-EP	25.47	19.22	11.31
MAX7032ATJ+-ND	Low Cost, Programmable, ASK/FSK Transceiver*	32-TQFN-EP	9.54	7.20	4.80
MAX7042ATJ+-ND	Low Power, FSK Superheterodyne Receiver*	32-TQFN-EP	5.72	4.32	2.77
MAX7044AKA+TCT-ND	High Efficiency, ASK Transmitter*	SOT-23-8	3.45	2.60	1.68
MAX7044AKA+TTR-ND	High Efficiency, ASK Transmitter*	SOT-23-8	5200.00/2,500		
MAX7219CNG+-ND	Serial Input 8-Digit LED Driver Multiplexed*	24-Dip	10.81	8.16	5.44
MAX7219CWG+-ND	Serial Input 8-Digit LED Driver Multiplexed*	24-SOIC	10.81	8.16	5.44
MAX7219ENG+-ND	Serial Input 8-Digit LED Driver Multiplexed*	24-Dip	14.05	10.60	7.32
MAX7219EWG+-ND	Serial Input 8-Digit LED Driver Multiplexed*	24-SOIC	14.05	10.60	6.21
MAX7221CNG+-ND	Serially Interfaced, 8-Digit LED Display Driver*	24-Dip	10.81	8.16	4.78
MAX7221CWG+-ND	Serially Interfaced, 8-Digit LED Display Driver*	24-SOIC	10.81	8.16	5.44
MAX7456EUI+-ND	Single-Channel Monochrome On-Screen Display*	28-TSSOP	27.11	20.46	12.03
MAX8211CPA+-ND	Programmable Voltage Detector, Non-Inverting*	8-Dip	3.45	2.60	1.68
MAX8211CSA+-ND	Programmable Voltage Detector, Non-Inverting*	8-SOIC	3.50	2.64	1.70
MAX8211ESA+-ND	Programmable Voltage Detector, Non-Inverting*	8-SOIC	5.27	3.98	2.56
MAX8212CPA+-ND	Programmable Voltage Detector, Inverting*	8-Dip	3.45	2.60	1.73
MAX8212CSA-ND	Programmable Voltage Detector, Inverting	8-SOIC	3.02	2.28	1.34
MAX8212CSA+-ND	Programmable Voltage Detector, Inverting*	8-SOIC	3.02	2.28	1.52
MAX8215CSD+-ND	Microprocessor Voltage Monitor*	14-SOIC	4.96	3.74	2.20
MAX8645XETI+-ND	1x/1.5x/2x White LED Charge Pump*	28-TQFN-EP	6.86	5.18	3.32
MAX8645YETI+-ND	1x/1.5x/2x White LED Charge Pump*	28-TQFN-EP	6.86	5.18	3.32
MAX8647ETE+-ND	Ultra-Efficient Charge Pump for 6 White/RGB LEDs*	16-TQFN-EP	4.88	3.68	2.36
MAX8648ETE+-ND	Ultra-Efficient Charge Pump for 6 White/RGB LEDs*	16-TQFN-EP	4.24	3.20	2.06
MAX8678ETE+-ND	White LED Charge Pump with 1.1W Audio Amp*	16-TQFN	4.13	3.12	2.00
MAX8790ETP+-ND	Six-String White LED Driver*	20-TQFN	6.28	4.74	2.65
MAX9142ESA+-ND	Low Power, Rail-to-Rail, Dual High-Speed Comparator*	8-SOIC	2.07	1.56	1.00
MAX9511CEG+TCT-ND	Complete VGA Interface with EMI Suppression*	24-QSOP	2.68	2.02	1.77
MAX9512ATE+TCT-ND	Video Filter Amp with SmartSleep*	16-TQFN	1.67	1.26	1.11
MAX9512ATE+TTR-ND	Video Filter Amp with SmartSleep*	16-TQFN	2520.00/2,500		
MAX9546ESA+TCT-ND	Differential Video Interface Chipset*	8-SOIC	3.18	2.40	2.10
MAX9546ESA+TTR-ND	Differential Video Interface Chipset*	8-SOIC	4800.00/2,500		
MAX9547ESA+TCT-ND	Differential Video Interface Chipset*	8-SOIC	3.18	2.40	2.10
MAX9547ESA+TTR-ND	Differential Video Interface Chipset*	8-SOIC	4800.00/2,500		
MAX9730ETI+-ND	2.4W, Single Supply, Class G Power Amp*	28-TQFN-EP	2.01	1.52	.89
MAX15020ATP+-ND	2A, 40V Step-Down DC/DC Converter*	20-TQFN-EP	5.01	3.78	2.22
MAX16029TG+-ND	Quad-Volt. Capacitor-Adjustable Supervisory Circuit*	24-TQFN	7.00	5.28	3.09
MAX16800ATE+-ND	High-Voltage, 350mA, Adjustable Linear High-Brightness LED Driver*	16-TQFN-EP	3.37	2.54	1.82
MAX16801AEUA+-ND	Offline and DC/DC PWM Controller for High-Brightness LED Driver*	8-µMAX	2.25	1.70	1.01
MAX16801BEUA+-ND	Offline and DC/DC PWM Controller for High-Brightness LED Driver*	8-µMAX	2.25	1.70	1.10
MAX16802AEUA+-ND	Offline and DC/DC PWM Controller for High-Brightness LED Driver*	8-µMAX	2.25	1.70	1.10
MAX16802BEUA+-ND	Offline and DC/DC PWM Controller for High-Brightness LED Driver*	8-µMAX	2.25	1.70	1.10
MAX16803ATE+-ND	High-Voltage, 350mA, High-Brightness LED Driver with PWM Dimming and 5V Regulator*	16-TQFN-EP	3.50	2.64	1.54
MAX16803ATE+TCT-ND	High-Voltage, 350mA, High-Brightness LED Driver with PWM Dimming and 5V Regulator*	16-TQFN-EP	3.68	2.78	2.44
MAX16803ATE+TTR-ND	High-Voltage, 350mA, High-Brightness LED Driver with PWM Dimming and 5V Regulator*	16-TQFN-EP	5560.00/2,500		
MAX16803EVKIT+-ND	Evaluation Kit for MAX16803*	—	29.25	—	—
MAX16804ATP+-ND	High-Voltage, 350mA LED Driver with Analog and PWM Dimming Control*	20-TQFN-EP	4.48	3.38	2.17
MAX16805ATP+-ND	EEPROM-Programmable, High-Voltage, 350mA LED Driver with LED Current Foldback*	20-TQFN-EP	4.82	3.64	2.34
MAX16806ATP+-ND	EEPROM-Programmable, High-Voltage, 350mA LED Driver with LED Current Foldback*	20-TQFN-EP	5.09	3.84	2.46
MAX16807AUI+-ND	Integrated 8-Channel LED Driver with Switch Mode Boost and SEPIC Controller*	28-TSSOP	6.94	5.24	3.07
MAX16812ATI+-ND	Integrated High-Voltage LED Driver with Analog and PWM Dimming Control*	28-TQFN-EP	7.16	5.40	3.16
MAX16818ATI+-ND	1.5MHz, 30A High Efficiency, LED Driver with Rapid LED Current Pulsing*	28-TQFN-EP	5.96	4.50	2.64
MAX16818ETI+-ND	1.5MHz, 30A High Efficiency, LED Driver with Rapid LED Current Pulsing*	28-TQFN-EP	5.17	3.90	2.29
MAX16823ATE+-ND	High-Voltage, 3-Channel Linear High-Brightness LED Driver*	16-TQFN-EP	3.55	2.68	1.57
MAX16823AUE+-ND	High-Voltage, 3-Channel Linear High-Brightness LED Driver*	16-TSSOP-EP	3.47	2.62	1.54
MAX16831ATJ+-ND	High-Voltage, High-Power LED Driver*	32-TQFN-EP	7.95	6.00	3.51
MX574AJN+-ND	Industry-Standard, Complete 12-Bit ADC*	28-Dip	31.72	23.94	17.10
MX7224KCWN+-ND	CMOS 8-Bit DAC with Output Amp*	18-SOIC	7.34	5.93	4.74
MX7226KN+-ND	CMOS Quad, 8-Bit DAC with Voltage Output Amp*	20-Dip	27.37	20.66	14.75
MX7528JCWP+-ND	CMOS Dual D/A Converter 8-Bit Buffered*	20-SOIC	8.80	6.64	4.74
MX7533JCWE-ND	CMOS 10-Bit D/A Converter	16-SOIC	6.60	4.98	3.55
MX7548BQ-ND	CMOS 12-Bit Current-Output, Multiplying D/A Converter	20-Dip	23.74	17.92	10.54
MXD1210CSA-ND	Nonvolatile RAM Controller	8-SOIC	5.83	4.40	2.94
MXD1210CSA+-ND	Nonvolatile RAM Controller*	8-SOIC	5.83	4.40	2.94

1-WIRE® — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS2401+-ND	Silicon Serial Number, 48-Bit, 1-Wire®	TO-92	1.86	1.40
DS2401P+-ND	Silicon Serial Number, 48-Bit, 1-Wire®	6-TSOC	2.01	1.52
DS2401P+CT-ND	Silicon Serial Number, 48-Bit, 1-Wire®	6-TSOC	2.28	1.72
DS2401P+TR-ND	Silicon Serial Number, 48-Bit, 1-Wire®	6-TSOC	4024.00/4,000	
DS2401Z+-ND	Silicon Serial Number, 48-Bit, 1-Wire®	SOT-223	2.28	1.72
DS2411P+-ND	Silicon Serial Number with Vcc Input ***NEW!***	6-TSOC	1.59	1.20
DS2413P+-ND	1-Wire® Dual Channel Addressable Switch ***NEW!***	6-TSOC	2.76	2.08
DS2417P+-ND	1-Wire® Time Chip with Interrupt	6-TSOC	2.70	2.04
DS2423P+-ND	4k-Bit, 1-Wire RAM with Counter ***NEW!***	6-TSOC	12.06	9.10
DS2430A+-ND	256-Bit, 1-Wire® EEPROM	TO-92	3.39	2.56
DS2430AP+-ND	256-Bit, 1-Wire® EEPROM	6-TSOC	3.52	2.66
DS2431+-ND	1024-Bit 1-Wire® EEPROM	TO-92	1.67	1.26
DS2431P+-ND	1024-Bit 1-Wire® EEPROM	6-TSOC	1.67	1.26
DS2433+-ND	4k-Bit, 1-Wire® EEPROM	PR-35	5.33	4.02
DS2433S+-ND	4k-Bit, 1-Wire® EEPROM	8-SOIC	3.98	3.84
DS2450S+-ND	1-Wire® Quad A/D Converter	8-SOIC	8.72	6.58
DS2480B+-ND	Serial 1-Wire® Line Driver with Load Sensor	8-SOIC	6.84	5.16
DS2482S-100+-ND	1-Channel 1-Wire® Master	8-SOIC	1.80	1.36
DS2482S-800+-ND	8-Channel 1-Wire® Master	16-SOIC	9.01	6.80
DS9490B#-ND	USB Single F5 iButton Holder with Protective Cap	—	37.15	28.04
DS9490R#-ND	USB to 1-Wire® RJ11	—	37.15	28.04
DS9502P+-ND	ESD Protection Diode	6-TSOC	1.03	.78
DS9503P+-ND	ESD Protection Diode with Resistor	6-TSOC	1.11	.84

COMMUNICATION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS21Q43AT-ND	5V, Quad E1 Framer	128-TQFP	148.53	112.10
DS21Q352-ND	3.3V, T1 Transceiver	256-BGA	189.13	142.74
DS21Q352N-ND	3.3V, T1 Transceiver, Ind. Temperature	256-BGA	217.51	164.16
DS275+-ND	Line-Powered RS-232 Transceiver Chip*	8-Dip	5.64	4.26
DS1863E+-ND	Burst-Mode PON Controller*	16-TSSOP	4.11	3.10
DS2141AQ-ND	5V, T1 Framer Controller	44-PLCC	50.99	38.48
DS2143Q-ND	5V, E1 Framer Controller	44-PLCC	50.99	38.48
DS2151QB-ND	5V, T1 Single Chip Transceiver	44-PLCC	77.65	58.60
DS2151QNB-ND	5V, T1 Single Chip Transceiver, Ind. Temperature	44-PLCC	89.31	67.40
DS2153Q-A7-ND	5V, E1 Single-Chip Transceiver	44-PLCC	77.65	58.60
DS2153Q-A7+-ND	5V, E1 Single-Chip Transceiver* ***NEW!***	44-PLCC	47.09	35.54
DS2154L-ND	5V, Enhanced E1 Single Chip Transceiver	100-LQFP	68.98	52.06
DS2165Q-ND	5V, ADPCM Processor 16/24/32Kpbs	28-PLCC	41.55	31.36
DS2165Q+-ND	5V, ADPCM Processor 16/24/32Kpbs*	28-PLCC	37.18	24.70
DS2172T-ND	Bit Error Rate Tester (BERT), 8-Bit	32-TQFP	18.26	13.78
DS2172T+-ND	Bit Error Rate Tester (BERT), 8-Bit*	32-TQFP	17.20	12.98
DS2175S-ND	T1/CEPT Elastic Store	16-SOIC	26.82	20.24
DS2176+-ND	T1 Receive Buffer*	24-Dip	27.37	20.66
DS2176Q-ND	T1 Receive Buffer	28-PLCC	31.14	23.50
DS2180A+-ND	T1 Transceiver*	40-Dip	32.33	24.40
DS2181A+-ND	CEPT Primary Rate Transceiver*	40-Dip	52.60	39.70
DS2181AQ-ND	CEPT Primary Rate Transceiver	44-PLCC	64.58	48.74
DS2187-ND	Receive Line Interface	18-Dip	34.74	26.22
DS2187S-ND	Receive Line Interface	20-SOIC	38.13	28.78
DS2188S-ND	T1/CEPT Jitter Attenuator	16-SOIC	17.62	13.30
DS2282/872282000-ND	T1 FDL Controller/Monitor Stik	30-SIP	118.83	89.68
DS21354L-ND	3.3V, E1 Single Chip Transceiver	100-LQFP	55.04	41.54
DS21354L+-ND	3.3V, E1 Single Chip Transceiver*	100-LQFP	39.64	29.92
DS21600SN+-ND	3.3V/5V, Clock Rate Adapter*	16-SOIC	25.60	24.70

DIGITAL POTENTIOMETER

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS1267-010+-ND	Dual Digital Potentiometer Chip, 10K*	14-Dip	8.32	6.28
DS1267-050+-ND	Dual Digital Potentiometer Chip, 50K*	14-Dip	8.32	6.28
DS1267-100+-ND	Dual Digital Potentiometer Chip, 100K*	14-Dip	8.32	6.28
DS1267E-10+-ND	Dual Digital Potentiometer Chip, 10K*	20-TSSOP	10.34	7.80
DS1267S-010+-ND	Dual Digital Potentiometer Chip, 10K*	16-SOIC	9.57	7.22
DS1267S-050+-ND	Dual Digital Potentiometer Chip, 50K*	16-SOIC	9.57	7.22
DS1267S-100+-ND	Dual Digital Potentiometer Chip, 100K*	16-SOIC	9.57	7.22
DS1666S-10+-ND	Audio Digital Resistor*	16-SOIC	5.57	4.20
DS1669-10+-ND	Dallastat™ Electronic Digital Rheostat, 10K*	8-Dip	6.81	5.14
DS1669-100+-ND	Dallastat™ Electronic Digital Rheostat, 100K*	8-Dip	6.81	5.14
DS1669S-10+-ND	Dallastat™ Electronic Digital Rheostat, 10K*	8-SOIC	7.18	5.42
DS1669S-100+-ND	Dallastat™ Electronic Digital Rheostat, 100K*	8-SOIC	7.18	5.42
DS1801E-014+-ND	Dual Audio Taper Potentiometer*	14-TSSOP	7.50	5.66
DS1803E-010+-ND	Addressable Dual Digital Potentiometer*	14-TSSOP	6.86	5.18
DS1803Z-010+-ND	Addressable Dual Digital Potentiometer, 10K*	16-SOIC	6.39	4.82
DS1803Z-050+-ND	Addressable Dual Digital Potentiometer, 50K*	16-SOIC	6.39	4.82
DS1803Z-100-ND	Addressable Dual Digital Potentiometer, 100K	16-SOIC	6.39	4.82
DS1803Z-100+-ND	Addressable Dual Digital Potentiometer, 100K*	16-SOIC	6.39	4.82
DS1804-010+-ND	Nonvolatile Trimmer Potentiometer, 10K*	8-Dip	3.10	2.34
DS1804-100+-ND	Nonvolatile Trimmer Potentiometer, 100K*	8-Dip	3.10	2.34
DS1804U-010+-ND	Nonvolatile Trimmer Potentiometer, 10K*	8-µSOP	3.45	2.60
DS1804Z-010+-ND	Nonvolatile Trimmer Potentiometer, 10K*	8-SOIC	3.23	2.44
DS1804Z-050+-ND	Nonvolatile Trimmer Potentiometer, 50K*	8-SOIC	3.23	2.44
DS1804Z-100+-ND	Nonvolatile Trimmer Potentiometer, 100K*	8-SOIC	3.23	2.44
DS1806E-010+-ND	Digital Sextet Potentiometer, 10K*	20-TSSOP	8.32	8.03
DS1806E-050-ND	Digital Sextet Potentiometer, 50K	20-TSSOP	12.08	9.12
DS1806E-050+-ND	Digital Sextet Potentiometer, 50K*	20-TSSOP	12.08	9.12
DS1845E-010+-ND	Dual Nonvolatile Potentiometer and Memory, 10K*	14-TSSOP	3.82	2.88
DS1845E-100+-ND	Dual Nonvolatile Potentiometer and Memory, 100K*	14-TSSOP	3.82	2.88
DS1862B+-ND	XFP Laser Control and Digital Diagnostic IC*	25-CSBGA	5.30	4.00
DS1866Z-ND	2.7V to 5.5V, Log Trimmer Potentiometer	8-Dip	2.94	2.22
DS1866Z+-ND	2.7V to 5.5V, Log Trimmer Potentiometer*	8-SOIC	2.94	2.22
DS1867-10+-ND	Dual Digital Potentiometer with EEPROM, 10K*	14-Dip	8.80	6.64
DS1867-50+-ND	Dual Digital Potentiometer with EEPROM, 50K*	14-Dip	8.80	6.64
DS1867E-10+-ND	Dual Digital Potentiometer with EEPROM, 10K*	20-TSSOP	9.99	7.54
DS1867S-10+-ND	Dual Digital Potentiometer with EEPROM, 10K*	16-SOIC	9.73	7.34
DS1868-10+-ND	Dual Digital Potentiometer Chip, 10K*	14-Dip	5.59	4.22
DS1868E-10+-ND	Dual Digital Potentiometer Chip, 10K*	20-TSSOP	6.78	5.12
DS1868S-10+-ND	Dual Digital Potentiometer Chip, 10K*	16-SOIC	5.88	4.44
DS1869-10+-ND	3V, Dallastat™ Electronic Digital Rheostat, 10K*	8-Dip	5.64	4.26
DS1869S-10+-ND	3V, Dallastat™ Electronic Digital Rheostat, 10K*	8-SOIC	5.88	4.44
DS1869S-50+-ND	3V, Dallastat™ Electronic Digital Rheostat, 50K*	8-SOIC	5.88	4.44
DS3501U+-ND	High Voltage, Nonvolatile, I²C Potentiometer with Temperature Sensor/Lookup Table*	8-µSOP	1.19	.90
DS3904U-020+-ND	Triple 128-Position Nonvolatile Digital Variable Resistor/Switch*	8-µSOP	1.80	1.36

**** RoHS Compliant***

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

DALLAS SEMICONDUCTOR

INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS21S07AE+-ND	SCSI Terminator*	20-TSSOP	4.11	3.10
DS21S07AS+-ND	SCSI Terminator*	16-SOIC	3.76	2.84
DS21T07E-ND	SCSI Terminator	20-TSSOP	3.66	2.76
DS21T09S-ND	Plug and Play SCSI Terminator, 2%	28-SOIC	6.36	4.80
DS2108S+-ND	Differential SCSI Switchable Terminator*	24-SOIC	14.68	11.08
DS2118MB+-ND	Ultra2 LVD/SE SCSI Terminator*	36-SSOP	3.31	2.50
DS2119ME+-ND	Ultra3 LVD/SE SCSI Terminator*	28-TSSOP	2.15	2.08
DS2405Z-ND	Addressable Switch, Open Drain	SOT-223	2.41	1.82
DS2405Z+-ND	Addressable Switch, Open Drain*	SOT-223	2.41	1.82
DS2406P+-ND	Dual Addressable Switch Plus 1K-Bit Memory*	6-TSOC	6.78	5.12

DALLAS SEMICONDUCTOR

MEMORY

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS1218S+-ND	Nonvolatile Controller Chip*	8-SOIC	13.20	9.96
DS1220AB-150+-ND	Nonvolatile SRAM, 16k, 5%, 150nS*	24-Dip	15.77	11.90
DS1220AB-200+-ND	Nonvolatile SRAM, 16k, 5%, 200nS*	24-Dip	13.91	10.50
DS1220AD-100IND+-ND	Nonvolatile SRAM, 16k, 10%, 100nS, Industrial Temp.*	24-Dip	16.99	12.82
DS1220AD-120+-ND	Nonvolatile SRAM, 16k, 10%, 120nS*	24-Dip	16.17	12.20
DS1220AD-200+-ND	Nonvolatile SRAM, 16k, 10%, 200nS* ***NEW!***	24-Dip	15.77	11.90
DS1225AB-85+-ND	Nonvolatile SRAM, 64k, 5%, 85nS*	28-Dip	20.19	15.24
DS1225AB-150+-ND	Nonvolatile SRAM, 64k, 5%, 150nS*	28-Dip	19.72	14.88
DS1225AB-200+-ND	Nonvolatile SRAM, 64k, 5%, 200nS*	28-Dip	14.71	11.10
DS1225AD-150+-ND	Nonvolatile SRAM, 64k, 10%, 150nS*	28-Dip	19.72	14.88
DS1225AD-200+-ND	Nonvolatile SRAM, 64k, 10%, 200nS*	28-Dip	19.72	14.88
DS1230AB-70+-ND	Nonvolatile SRAM, 256k, 5%, 70nS*	28-Dip	27.27	20.58
DS1230AB-70IND+-ND	Nonvolatile SRAM, 256k, 5%, 70nS, Ind. Temp.* ***NEW!***	28-Dip	28.62	21.60
DS1230AB-120+-ND	Nonvolatile SRAM, 256k, 5%, 120nS*	28-Dip	26.63	20.10
DS1230AB-200+-ND	Nonvolatile SRAM, 256k, 5%, 200nS*	28-Dip	26.63	20.10
DS1230Y-70+-ND	Nonvolatile SRAM, 256k, 10%, 70nS*	28-Dip	27.27	20.58
DS1230Y-70IND+-ND	Nonvolatile SRAM, 256k, 10%, 70nS, Industrial Temp.*	28-Dip	22.13	16.70
DS1230Y-100+-ND	Nonvolatile SRAM, 256k, 10%, 100nS*	28-Dip	20.80	15.70
DS1230Y-120+-ND	Nonvolatile SRAM, 256k, 10%, 120nS*	28-Dip	20.80	15.70
DS1230Y-150+-ND	Nonvolatile SRAM, 256k, 10%, 150nS*	28-Dip	26.63	20.10
DS1230Y-200+-ND	Nonvolatile SRAM, 256k, 10%, 200nS*	28-Dip	20.80	15.70
DS1243Y-120+-ND	Nonvolatile SRAM with Phantom Clock, 64k, 120nS*	28-Dip	28.81	21.74
DS1244Y-70+-ND	Nonvolatile SRAM with Phantom Clock, 256k, 70nS*	28-Dip	33.73	25.46
DS1245AB-120+-ND	Nonvolatile SRAM, 1024k, 5%, 120nS*	32-Dip	37.44	28.26
DS1245Y-70IND+-ND	Nonvolatile SRAM, 1024k, 10%, 70nS, Industrial Temp.*	32-Dip	40.12	30.28
DS1245Y-100+-ND	Nonvolatile SRAM, 1024k, 10%, 100nS*	32-Dip	37.44	28.26
DS1245Y-120+-ND	Nonvolatile SRAM, 1024k, 10%, 120nS*	32-Dip	37.44	28.26
DS1245YP-100+-ND	Nonvolatile SRAM, 1024k, 10%, 100nS*	34-PCM	29.87	22.54
DS1249Y-70-ND	Nonvolatile SRAM, 2048k, 10%, 70nS	32-Dip	67.68	51.08
DS1250WP-150-ND	3.3V, Nonvolatile SRAM, 4096k, 150nS	34-PCM	110.32	83.26
DS1250Y-100+-ND	Nonvolatile SRAM, 4096k, 100nS*	32-Dip	117.90	88.98
DS1345WP-150-ND	3.3V, Nonvolatile SRAM with Battery Monitor, 1024k	34-PCM	32.86	24.80
DS1609S-50+-ND	Dual Port RAM, 50nS*	24-SOIC	8.82	6.66
DS1642-100+-ND	Nonvolatile Timekeeping RAM, 100nS*	24-EDip	24.06	18.16
DS1643-100+-ND	Nonvolatile Timekeeping RAM, 100nS, 700mil.*	28-EDip	25.04	18.90
DS1644-120+-ND	Nonvolatile Timekeeping RAM, 120nS*	28-EDip	29.23	22.06
DS1644P-120+-ND	Nonvolatile Timekeeping RAM, 120nS*	34-PCM▲	26.00	19.62
DS1646-120+-ND	Nonvolatile Timekeeping RAM, 120nS*	32-Dip	41.29	31.16
DS1646P-120+-ND	Nonvolatile Timekeeping RAM, 120nS*	34-PCM▲	36.68	27.68
DS2016-100+-ND	3V/5V, 2K x 8, Operation Static RAM*	24-Dip	11.13	8.40
DS2030AB-70#-ND	Nonvolatile SRAM, 256kb, 70nS*	256-BGA	55.07	41.56
DS2030AB-100#-ND	Nonvolatile SRAM, 256kb, 100nS*	256-BGA	55.07	41.56
DS2030L-100#-ND	3.3V, Nonvolatile SRAM, 256kb, 100nS*	256-BGA	22.31	16.84
DS2030W-100#-ND	3.3V, Nonvolatile SRAM, 256kb, 100nS*	256-BGA	55.07	41.56
DS2030Y-70#-ND	Nonvolatile SRAM, 256kb, 70nS*	256-BGA	55.07	41.56
DS2030Y-100#-ND	Nonvolatile SRAM, 256kb, 100nS*	256-BGA	55.07	41.56
DS2045AB-70#-ND	Nonvolatile SRAM, 1Mb, 70nS*	256-BGA	56.90	42.94
DS2045AB-100#-ND	Nonvolatile SRAM, 1Mb, 100nS*	256-BGA	56.90	42.94
DS2045L-100#-ND	3.3V, Nonvolatile SRAM, 1Mb, 100nS*	256-BGA	51.20	38.64
DS2045W-100#-ND	3.3V, Nonvolatile SRAM, 1Mb, 100nS*	256-BGA	56.90	42.94
DS2045Y-70#-ND	Nonvolatile SRAM, 1Mb, 70nS*	256-BGA	56.90	42.94
DS2045Y-100#-ND	Nonvolatile SRAM, 1Mb, 100nS*	256-BGA	56.90	42.94
DS2050W-100#-ND	3.3V, Nonvolatile SRAM, 4Mb, 100nS*	256-BGA	77.96	58.84
DS2065W-100#-ND	3.3V, Nonvolatile SRAM, 8Mb, 100nS*	256-BGA	87.45	66.00
DS2070W-100#-ND	3.3V, Nonvolatile SRAM, 16Mb, 100nS*	256-BGA	109.92	82.96
DS2502-E48+-ND	48-Bit Node Address Chip*	TO-92	3.92	2.96
DS2502P+-ND	1K-Bit Add-Only Memory*	6-TSOC	2.90	2.80
DS2502P-E48+-ND	1K-Bit Add-Only Memory*	6-TSOC	3.92	2.96
DS2502S+-ND	1K-Bit Add-Only Memory*	8-SOIC	4.61	3.48
DS2505+-ND	16K-Bit Add-Only Memory*	TO-92	4.37	3.30
DS2505P+-ND	16K-Bit Add-Only Memory*	6-TSOC	3.01	2.91
DS3030W-100#-ND	3.3V, Nonvolatile SRAM, 256kb, 100nS, with Clock*	256-BGA	62.59	47.24
DS3045W-100#-ND	3.3V, Nonvolatile SRAM, 1Mb, 100nS, with Clock*	256-BGA	81.43	61.46
DS3050W-100#-ND	3.3V, Nonvolatile SRAM, 4Mb, 100nS, with Clock*	256-BGA	85.91	64.84
DS3065W-100#-ND	3.3V, Nonvolatile SRAM, 8Mb, 100nS, with Clock*	256-BGA	95.40	72.00
DS3070W-100#-ND	3.3V, Nonvolatile SRAM, 16Mb, 100nS, with Clock*	256-BGA	117.87	88.96
DS9034PC+-ND	PowerCap Module without Crystal*	PowerCap Module	9.67	7.30
DS9034PCX+-ND	PowerCap Module with Crystal*	PowerCap Module	9.86	7.44

▲DS9034PCX PowerCap required; order DS9034PCX+-ND

DALLAS SEMICONDUCTOR

NONVOLATILE RAM CONTROLLERS

RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS1210+-ND	Nonvolatile Controller Chip	8-Dip	4.85	3.66
DS1210N+-ND	Nonvolatile Controller Chip, Industrial Temperature	8-Dip	5.70	4.30
DS1210S+-ND	Nonvolatile Controller Chip	16-SOIC	5.22	3.94
DS1210SN+-ND	Nonvolatile Controller Chip, Industrial Temperature	16-SOIC	6.41	4.84
DS1211S+-ND	Nonvolatile Controller x 8 Chip	20-SOIC	37.76	28.50
DS1312S+-ND	Nonvolatile Controller with Lithium Battery Monitor, 300mil	16-SOIC	15.32	11.56
DS1312S-2+-ND	Nonvolatile Controller with Lithium Battery Monitor, 150mil	8-SOIC	12.19	9.20
DS1314S+-ND	Nonvolatile Controller w/Lithium Battery Monitor, 3V, 300mil	16-SOIC	12.51	9.44
DS1314S-2+-ND	Nonvolatile Controller w/Lithium Battery Monitor, 3V, 150mil	8-SOIC	16.01	12.08
DS1321+-ND	Flexible Nonvolatile Controller with Lithium Battery Monitor, 5V	16-Dip	10.15	7.66
DS1321S+-ND	Flexible Nonvolatile Controller with Lithium Battery Monitor, 5V	16-SOIC	10.15	7.66
DS2762AE+-ND	High-Precision Li+ Battery Monitor with Alerts ***NEW!***	16-TSSOP	6.55	4.94
DS3882E+C-ND	Dual Channel CCFL Controller	28-TSSOP	4.72	3.56

DALLAS SEMICONDUCTOR DigiReel®

RESET

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS1233-5+-ND	5V, EconoReset, 5%*	TO-92	1.38	1.04
DS1233-10+-ND	5V, EconoReset, 10%*	TO-92	1.38	1.04
DS1233A-10+-ND	3.3V, EconoReset, 10%*	TO-92	1.30	.98
DS1233A-15-ND	3.3V, EconoReset, 15%	TO-92	1.38	1.04
DS1233A-15+-ND	3.3V, EconoReset, 15%*	TO-92	1.38	1.04
DS1233AZ-10+-ND	3.3V, EconoReset, 10%*	SOT-223	2.25	1.70
DS1233AZ-10+CT-ND	3.3V, EconoReset, 10%*	SOT-223	2.09	1.58
DS1233AZ-10+TR-ND	3.3V, EconoReset, 10%*	SOT-223	3150.00/2,500	
DS1233AZ-15+-ND	3.3V, EconoReset, 15%*	SOT-223	2.41	1.82
DS1233D-5+CT-ND	5V, EconoReset, No Pushbutton Reset, 5%*	TO-92	1.46	1.10
DS1233D-5+TR-ND	5V, EconoReset, No Pushbutton Reset, 5%*	TO-92	1650.00/2,000	
DS1233D-10+CT-ND	5V, EconoReset, No Pushbutton Reset, 10%*	TO-92	1.46	1.10
DS1233D-10+TR-ND	5V, EconoReset, No Pushbutton Reset, 10%*	TO-92	1650.00/2,000	
DS1233D-15+-ND	5V, EconoReset, No Pushbutton Reset, 15%*	TO-92	1.38	1.04
DS1233DZ-5+-ND	5V, EconoReset, No Pushbutton Reset, 5%*	SOT-223	2.25	1.70
DS1233DZ-5+CT-ND	5V, EconoReset, No Pushbutton Reset, 5%*	SOT-223	2.62	1.98
DS1233DZ-5+TR-ND	5V, EconoReset, No Pushbutton Reset, 5%*	SOT-223	3712.50/2,500	
DS1233DZ-10+-ND	5V, EconoReset, No Pushbutton Reset, 10%*	SOT-223	2.25	1.70
DS1233DZ-10+CT-ND	5V, EconoReset, No Pushbutton Reset, 10%*	SOT-223	2.09	1.58
DS1233DZ-10+TR-ND	5V, EconoReset, No Pushbutton Reset, 10%*	SOT-223	2962.50/2,500	
DS1233DZ-15+-ND	5V, EconoReset, No Pushbutton Reset, 15%*	SOT-223	2.25	1.70
DS1233DZ-15+CT-ND	5V, EconoReset, No Pushbutton Reset, 15%*	SOT-223	2.62	1.98
DS1233DZ-15+TR-ND	5V, EconoReset, No Pushbutton Reset, 15%*	SOT-223	3712.50/2,500	
DS1233M-5+-ND	5V, EconoReset*	TO-92	1.38	1.04
DS1233M-55+-ND	5V, EconoReset*	TO-92	1.38	1.04
DS1233MS-3+-ND	3.3V, EconoReset*	8-SOIC	2.89	2.18
DS1233MS-5+-ND	5V, EconoReset*	8-SOIC	2.89	2.18
DS1233Z-5+-ND	EconoReset, 5%*	SOT-223	2.25	1.70
DS1233Z-10+-ND	EconoReset, 10%*	SOT-223	2.41	1.82
DS1233Z-15+-ND	EconoReset, 15%*	SOT-223	2.41	1.82
DS1810-5+CT-ND	5V, EconoReset with Push-Pull Output, 5%*	TO-92	1.19	.90
DS1810-5+TR-ND	5V, EconoReset with Push-Pull Output, 5%*	TO-92	1350.00/2,000	
DS1811-5+CT-ND	5V, EconoReset with Open Drain Output, 5%*	TO-92	1.19	.90
DS1811-5+TR-ND	5V, EconoReset with Open Drain Output, 5%*	TO-92	1350.00/2,000	
DS1811-10+CT-ND	5V, EconoReset with Open Drain Output, 10%*	TO-92	.98	.74
DS1811-10+TR-ND	5V, EconoReset with Open Drain Output, 10%*	TO-92	1110.00/2,000	
DS1811-15-ND	5V, EconoReset with Open Drain Output, 15%	TO-92	1.11	.84
DS1811-15+CT-ND	5V, EconoReset with Open Drain Output, 15%*	TO-92	1.19	.90
DS1811-15+TR-ND	5V, EconoReset with Open Drain Output, 15%*	TO-92	1054.00/2,000	
DS1811R-5+CT-ND	5V, EconoReset with Open Drain Output, 5%*	SOT-23	1.03	.78
DS1811R-5+TR-ND	5V, EconoReset with Open Drain Output, 5%*	SOT-23	1755.00/3,000	
DS1811R-10+CT-ND	5V, EconoReset with Open Drain Output, 10%*	SOT-23	.80	.60
DS1811R-10+TR-ND	5V, EconoReset with Open Drain Output, 10%*	SOT-23	1350.00/3,000	
DS1812-5+CT-ND	5V, EconoReset with Active High Push-Pull Output, 5%*	TO-92	1.19	.90
DS1812-5+TR-ND	5V, EconoReset with Active High Push-Pull Output, 5%*	TO-92	1350.00/2,000	
DS1812-10+CT-ND	5V, EconoReset with Active High Push-Pull Output, 10%*	TO-92	1.19	.90
DS1812-10+TR-ND	5V, EconoReset with Active High Push-Pull Output, 10%*	TO-92	1350.00/2,000	
DS1813-5+CT-ND	5V, EconoReset with Pushbutton, 5%*	TO-92	1.19	.90
DS1813-5+TR-ND	5V, EconoReset with Pushbutton, 5%*	TO-92	1350.00/2,000	
DS1813-10+CT-ND	5V, EconoReset with Pushbutton, 10%*	TO-92	1.19	.90
DS1813-10+TR-ND	5V, EconoReset with Pushbutton, 10%*	TO-92	1350.00/2,000	
DS1813R-5+CT-ND	5V, EconoReset with Pushbutton, 5%*	SOT-23	.80	.60
DS1813R-5+TR-ND	5V, EconoReset with Pushbutton, 5%*	SOT-23	1350.00/3,000	
DS1815-10+CT-ND	3.3V, EconoReset with Push-Pull Output, 10%*	TO-92	1.19	.90
DS1815-10+TR-ND	3.3V, EconoReset with Push-Pull Output, 10%*	TO-92	1350.00/2,000	
DS1817-20+-ND	3.3V, EconoReset with Push-Pull Output, 20%*	TO-92	1.11	.84
DS1818-10+CT-ND	3.3V, EconoReset with Pushbutton, 10%*	TO-92	1.19	.90
DS1818-10+TR-ND	3.3V, EconoReset with Pushbutton, 10%*	TO-92	1350.00/2,000	
DS1818R-5+CT-ND	3.3V, EconoReset with Pushbutton, 5%*	SOT-23	1.03	.78
DS1818R-5+TR-ND	3.3V, EconoReset with Pushbutton, 5%*	SOT-23	1368.90/3,000	
DS1818R-10+CT-ND	3.3V, EconoReset with Pushbutton, 10%*	SOT-23	.80	.60
DS1818R-10+TR-ND	3.3V, EconoReset with Pushbutton, 10%*	SOT-23	1350.00/3,000	
DS1833-5+-ND	5V, Microprocessor EconoReset, 5%*	TO-92	1.80	1.36
DS1833-10+-ND	5V, Microprocessor EconoReset, 10%*	TO-92	1.80	1.36
DS1833Z-5+CT-ND	5V, Microprocessor EconoReset, 5%*	SOT-223	3.37	2.54
DS1833Z-5+TR-ND	5V, Microprocessor EconoReset, 5%*	SOT-223	4762.50/2,500	
DS1833Z-10+-ND	5V, Microprocessor EconoReset, 10%*	SOT-223	3.15	2.38
DS1833Z-10+CT-ND	5V, Microprocessor EconoReset, 10%*	SOT-223	3.37	2.54
DS1833Z-10+TR-ND	5V, Microprocessor EconoReset, 10%*	SOT-223	4762.50/2,500	
DS1834AS+-ND	Dual Microprocessor EconoReset with Pushbutton*	8-SOIC	2.41	1.82
DS1834AU+CT-ND	Dual Microprocessor EconoReset with Pushbutton*	8-MSOP	2.68	2.02
DS1834AU+TR-ND	Dual Microprocessor EconoReset with Pushbutton*	8-MSOP	4545.00/3,000	
DS1834S+-ND	Dual Microprocessor EconoReset with Pushbutton*	8-SOIC	2.41	1.82

DALLAS SEMICONDUCTOR DigiReel®

REAL-TIME CLOCK

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS12C887+-ND	Real-Time Clock with RAM, 128-Byte*	24-EDip	8.96	6.76
DS28DG02E-3C+-ND	2kb SPI EEPROM with PIO, RTC, Reset, Battery Monitor, and Watchdog*	28-TSSOP	5.27	3.98
DS28DG02G-3C+-ND	2kb SPI EEPROM with PIO, RTC, Reset, Battery Monitor, and Watchdog*	36-TQFN	5.64	4.26
DS32B35-33#-ND	Accurate I^{2}C Integrated RTC/TCXO/Crystal/FRAM*	20-SOIC	11.61	8.76
DS32B35-33IND#-ND	Accurate I^{2}C Integrated RTC/TCXO/Crystal/FRAM*	20-SOIC	13.04	9.84
DS32C35-33#-ND	Accurate I^{2}C Integrated RTC/TCXO/Crystal/FRAM*	20-SOIC	14.02	10.58
DS32C35-33IND#-ND	Accurate I^{2}C Integrated RTC/TCXO/Crystal/FRAM*	20-SOIC	15.45	11.66
DS1283S-ND	Watchdog Timekeeper Chip	28-SOIC	11.00	8.30
DS1302+-ND	Trickle Charge Timekeeping Chip, 300mil.*	8-Dip	3.31	2.50
DS1302N+-ND	Trickle Charge Timekeeping Chip, Ind. Temperature*	8-Dip	4.13	3.12
DS1302S+-ND	Trickle Charge Timekeeping Chip, 300mil.*	8-SOIC	2.26	2.19
DS1302SN+-ND	Trickle Charge Timekeeping Chip, Ind. Temperature*	8-SOIC	4.13	3.12
DS1302Z+-ND	Trickle Charge Timekeeping Chip, 150mil*	8-SOIC	3.31	2.50

***RoHS Compliant**

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

DALLAS SEMICONDUCTOR DigiReel® REAL-TIME CLOCK *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS1302Z+CT-ND	Trickle Charge Timekeeping Chip, 150mil.*	8-SOIC	2.99	2.26
DS1302Z+TR-ND	Trickle Charge Timekeeping Chip, 150mil.*	8-SOIC	3390.00/2,500	
DS1302ZN+-ND	Trickle Charge Timekeeping Chip, Ind. Temperature*	8-SOIC	2.50	2.42
DS1305+-ND	Serial Alarm Real-Time Clock, 300mil.*	16-Dip	5.06	3.82
DS1305E+-ND	Serial Alarm Real-Time Clock, 173mil.*	20-TSSOP	5.06	3.82
DS1305EN+-ND	Serial Alarm Real-Time Clock, Ind. Temperature*	20-TSSOP	5.57	4.20
DS1306E+-ND	Serial Alarm Real-Time Clock, 4.4mil.*	20-TSSOP	5.06	3.82
DS1306EN+-ND	Serial Alarm Real-Time Clock, Ind. Temperature*	20-TSSOP	5.59	4.22
DS1306N+-ND	Serial Alarm Real-Time Clock, 300mil.* ***NEW!***	16-Dip	5.59	4.22
DS1307+-ND	Serial Real-Time Clock, 64x8, 300mil.*	8-Dip	3.74	2.82
DS1307N+-ND	Serial Real-Time Clock, 64x8, Ind. Temperature*	8-Dip	4.13	3.12
DS1307Z+-ND	Serial Real-Time Clock, 64x8, 150mil.*	8-SOIC	3.29	2.48
DS1307ZN+-ND	Serial Real-Time Clock, 64x8, Ind. Temperature*	8-SOIC	4.13	3.12
DS1315-5+-ND	5V, Phantom Time Chip, 300mil.*	16-Dip	15.61	11.78
DS1315EN-33-ND	3.3V, Phantom Time Chip, Ind. Temperature	20-TSSOP	20.51	15.48
DS1315S-5+-ND	5V, Phantom Time Chip, 300mil.*	16-SOIC	18.13	13.68
DS1315SN-5+-ND	5V, Phantom Time Chip, Ind. Temperature +B200*	16-SOIC	20.51	15.48
DS1337+-ND	I^{2}C Serial Real-Time Clock* ***NEW!***	8-Dip	2.41	1.82
DS1337S+-ND	I^{2}C Serial Real-Time Clock*	8-SOIC	2.41	1.82
DS1337U+-ND	I^{2}C Serial Real-Time Clock*	8-µSOP	2.41	1.82
DS1338C-33#-ND	3.3V, I^{2}C Real-Time Clock with 56-Byte NV RAM*	16-SOIC	5.70	4.30
DS1338Z-3+-ND	3V, I^{2}C Real-Time Clock with 56-Byte NV RAM*	8-SOIC	3.07	2.32
DS1338Z-33+-ND	3.3V, I^{2}C Real-Time Clock with 56-Byte NV RAM*	8-SOIC	3.07	2.32
DS1339U-3+-ND	3V, I^{2}C Real-Time Clock* ***NEW!***	8-µSOP	3.07	2.32
DS1339U-33+-ND	3.3V, I^{2}C Serial Real-Time Clock*	8-µSOP	3.07	2.32
DS1340C-33#-ND	3.3V, I^{2}C Real-Time Clock with Trickle Charger* ***NEW!***	16-SOIC	5.70	4.30
DS1340U-33+-ND	3.3V, I^{2}C Real-Time Clock with Trickle Charger*	8-µSOP	3.07	2.32
DS1340Z-33+-ND	3.3V, I^{2}C Real-Time Clock with Trickle Charger*	8-SOIC	3.07	2.32
DS1371U+-ND	I^{2}C, 32-Bit Binary Counter Watchdog Clock* ***NEW!***	8-µSOP	2.41	1.82
DS1372U+-ND	I^{2}C, 32-Bit Binary Counter Clock with 64-Bit ID* ***NEW!***	8-µSOP	2.68	2.02
DS1374C-33#-ND	3.3V, I^{2}C 32-Bit Binary Counter Watchdog RTC*	16-SOIC	6.15	4.64
DS1374U-33+-ND	3.3V, I^{2}C 32-Bit Binary Counter Watchdog RTC* ***NEW!***	10-µSOP	3.42	2.58
DS1375T+-ND	2-Wire Digital Input RTC with Alarm* ***NEW!***	6-TDFN	1.33	1.00
DS1388Z-33+-ND	I^{2}C RTC/Supervisor with Trickle Charger* ***NEW!***	8-SOIC	4.56	3.44
DS1390U-33+-ND	3.3V, Low Voltage SPI RTC with Trickle Charger*	10-µSOP	3.42	2.58
DS1391U-33+-ND	3.3V, Low Volt. SPI/3-Wire RTC w/Trickle Charger* ***NEW!***	10-µSOP	3.42	2.58
DS1392U-33+-ND	3.3V, Low Voltage 3-Wire RTC with Trickle Charger*	10-µSOP	3.42	2.58
DS1501WE-ND	3.3V, Y2KC Watchdog Real-Time Clock	28-TSOP	12.08	9.12
DS1501WE+-ND	3.3V, Y2KC Watchdog Real-Time Clock*	28-TSOP	12.08	9.12
DS1501WEN+-ND	3.3V, Y2KC Watchdog Real-Time Clock, Ind. Temp.*	28-TSOP	13.89	10.48
DS1511W+-ND	3.3V, Y2KC Watchdog Real-Time Clock*	28-EDip	20.86	15.74
DS1553WP-120+-ND	3.3V, 64K-Byte Y2KC Nonvolatile Timekeeping RAM*	34-PCM	31.91	24.08
DS1670E+-ND	Portable System Controller, 4.4mm*	20-TSSOP	6.50	6.27
DS1682S+-ND	Total-Elapsed-Time Recorder with Alarm*	8-SOIC	4.96	3.74
DS1685-5-ND	5V, Real-Time Clock	24-Dip	6.07	4.58
DS1685S-5+-ND	5V, Real-Time Clock*	24-SOIC	6.41	4.84
DS1687-5+-ND	5V, Real-Time Clock*	24-EDip	9.38	7.08
DS1742W-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	24-EDip	25.55	19.28
DS1743W-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	28-EDip	26.77	20.20
DS1743W-120IND+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	28-EDip	30.77	23.22
DS1743WP-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	34-PCM▲	31.01	23.40
DS1744-70+-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS*	28-EDip	29.23	22.06
DS1744-70IND+-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS*	28-EDip	33.63	25.38
DS1746WP-120-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS	34-PCM▲	52.50	39.62
DS1746WP-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	34-PCM▲	36.68	27.68
DS2404B+-ND	EconoRAM Time Chip*	16-SSOP	11.08	8.36
DS2404S-001+-ND	EconoRAM Time Chip*	16-SOIC	10.57	7.98
DS3231S#-ND	Extremely Accurate I^{2}C Integrated RTC/TCXO/Crystal*	16-SOIC	7.42	5.60
DS3231SN#-ND	Extremely Accurate I^{2}C Integrated RTC/TCXO/Crystal*	16-SOIC	8.53	6.44
DS3232S#-ND	Extremely Accurate I^{2}C Integrated RTC/TCXO/Crystal*	20-SOIC	7.63	5.76
DS3234S#-ND	Extremely Accurate SPI Bus RTC* ***NEW!***	20-SOIC	7.63	5.76
DS3234SN#-ND	Extremely Accurate SPI Bus Real-Time Clock	20-SOIC	8.77	6.62
DS12885S+-ND	Real-Time Clock with RAM, 128-Byte*	24-SOIC	7.74	5.84
DS12885Q+-ND	Real-Time Clock with RAM, 128-Byte*	28-PLCC	8.03	6.06
DS12885QN+-ND	Real-Time Clock with RAM, 128-Byte* ***NEW!***	28-PLCC	9.22	6.96
DS12887+-ND	Real-Time Clock with RAM, 128-Byte*	24-EDip	8.96	6.76
DS12887A+-ND	Real-Time Clock with RAM, 128-Byte*	24-EDip	8.96	6.76
DS14285Q-ND	Real-Time Clock with NV RAM Control	28-PLCC	8.03	6.06
DS14285Q+-ND	Real-Time Clock with NV RAM Control*	28-PLCC	8.03	6.06
DS17287-5+-ND	5V, Real-Time Clock with Battery and Crystal*	24-EDip	14.79	11.16
DS17485S-3+-ND	3V, RTC with 4K-Bytes of Battery-Backed NV RAM*	24-SOIC	12.43	9.38
DS17887-5-ND	5V, Real-Time Clock	24-EDip	22.34	16.86
DS17887-5+-ND	5V, Real-Time Clock*	24-EDip	22.34	16.86

▲DS9034PCX PowerCap required; order DS9034PCX+-ND

DALLAS SEMICONDUCTOR THERMAL MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS18B20+-ND	Programmable Resolution 1-Wire® Digital Thermometer*	TO-92	5.04	3.80
DS18B20+PAR-ND	Prog. Resolution 1-Wire® Digital Thermometer* ***NEW!***	TO-92	5.04	3.80
DS18B20U+-ND	Programmable Resolution 1-Wire® Digital Thermometer*	8-µSOP	5.04	3.80
DS18B20Z+-ND	Programmable Resolution 1-Wire® Digital Thermometer*	8-SOIC	5.04	3.80
DS18S20+-ND	High Precision 1-Wire® Digital Thermometer*	TO-92	5.04	3.80
DS18S20+CT-ND	High Precision 1-Wire® Digital Thermometer*	TO-92	5.04	3.80
DS18S20+TR-ND	High Precision 1-Wire® Digital Thermometer*	TO-92	5700.00/2,000	
DS18S20Z+-ND	High Precision 1-Wire® Digital Thermometer*	8-SOIC	5.04	3.80
DS75LVS+-ND	1.7V to 3.7V Digital Thermometer/Thermostat*	8-SOIC	2.01	1.52
DS75LVU+-ND	1.7V to 3.7V Digital Thermometer/Thermostat*	8-µSOP	2.01	1.52
DS75LXS+-ND	1.7V to 3.7V Digital Thermometer/Thermostat*	8-SOIC	1.86	1.40
DS75LXU+-ND	1.7V to 3.7V Digital Thermometer/Thermostat*	8-µMAX	1.86	1.40
DS75S-ND	Digital Thermometer/Thermostat, LM75-Compatible	8-SOIC	2.01	1.52
DS75S+-ND	Digital Thermometer/Thermostat, LM75-Compatible*	8-SOIC	2.01	1.52
DS75U+-ND	Digital Thermometer/Thermostat, LM75-Compatible*	8-µMAX	2.01	1.52
DS600U+-ND	±5°C Accurate Analog-Output Temperature Sensor*	8-µSOP	5.04	3.80
DS620U+-ND	Low Voltage ±0.5°C Accuracy Digital Thermometer/Thermostat* ***NEW!***	8-µSOP	5.04	3.80
DS1620+-ND	Digital Thermometer/Thermostat, 300mil.*	8-Dip	6.97	5.26
DS1620S-ND	Digital Thermometer/Thermostat, 208mil.	8-SOIC	6.97	5.26
DS1620S+-ND	Digital Thermometer/Thermostat, 208mil.*	8-SOIC	6.97	5.26
DS1621+-ND	Digital Thermometer/Thermostat, 300mil.*	8-Dip	4.61	3.48
DS1621S+-ND	Digital Thermometer/Thermostat, 150mil.*	8-SOIC	4.61	3.48
DS1624+-ND	Digital Thermometer and Memory, 300mil.*	8-Dip	9.04	6.82
DS1624S+-ND	Digital Thermometer and Memory, 208mil.*	8-SOIC	9.04	6.82
DS1629S+-ND	2-Wire Digital Thermometer and Real-Time Clock, 150mil.*	8-SOIC	7.76	5.86
DS1631U+-ND	High Precision Digital Thermometer/Thermostat*	8-MSOP	2.76	2.66
DS1631Z+-ND	High Precision Digital Thermometer/Thermostat*	8-SOIC	2.76	2.66
DS1720S+-ND	ECON-Digital Thermometer/Thermostat*	8-SOIC	5.96	4.50
DS1721S+CT-ND	2-Wire Digital Thermometer/Thermostat*	8-SOIC	3.87	2.92
DS1721S+TR-ND	2-Wire Digital Thermometer/Thermostat*	8-SOIC	5475.00/2,500	
DS1721U+-ND	2-Wire Digital Thermometer/Thermostat*	8-MSOP	3.87	2.92
DS1722S+-ND	3-Wire Digital Thermometer/Thermostat*	8-SOIC	2.60	1.96
DS1722S+CT-ND	3-Wire Digital Thermometer/Thermostat*	8-SOIC	2.60	1.96
DS1722S+TR-ND	3-Wire Digital Thermometer/Thermostat*	8-SOIC	3675.00/2,500	
DS1722U+-ND	3-Wire Digital Thermometer/Thermostat*	8-MSOP	2.65	2.00
DS1821+-ND	Programmable Digital Thermostat/Thermometer*	3-PR35	6.31	4.76
DS1821S-ND	Programmable Digital Thermostat/Thermometer	8-SOIC	6.31	4.76
DS1821S+-ND	Programmable Digital Thermostat/Thermometer*	8-SOIC	6.31	4.76
DS1822+-ND	Econo 1-Wire® Digital Thermometer*	TO-92	3.87	2.92
DS1822Z+-ND	Econo 1-Wire® Digital Thermometer*	8-SOIC	3.87	2.92
DS1825U+-ND	Prog. Resolution 1-Wire® Digital Thermometer* ***NEW!***	8-µSOP	4.21	3.18

DALLAS SEMICONDUCTOR TIMEKEEPING

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS32KHZS#-ND	32.768kHz Temp. Compensated Crystal Oscillator*	16-SOIC	7.42	5.60
DS32KHZSN#-ND	32.768kHz Temp. Compensated Crystal Oscillator*	16-SOIC	8.53	6.44
DS1004Z-3+-ND	5-Tap High Speed Silicon Delay Line, 3nS Tap-to-Tap*	8-SOIC	17.44	13.16
DS1004Z-4+-ND	5-Tap High Speed Silicon Delay Line, 4nS Tap-to-Tap*	8-SOIC	17.44	13.16
DS1020S-100+-ND	Programmable 8-Bit Silicon Delay Line* ***NEW!***	16-SOIC	46.56	35.14
DS1023S-25+-ND	8-Bit Programmable Timing Element, .25nS*	16-SOIC	16.83	12.70
DS1080LU+-ND	Spread-Spectrum Crystal Multiplier*	8-µSOP	2.60	1.96
DS1085LZ-25+-ND	3.3V EconOscillator Frequency Synthesizer*	8-SOIC	7.16	5.40
DS1091LU-66+-ND	Auto Temp. Range Spread-Spectrum EconOscillator*	8-µMAX	1.67	1.26
DS1100LU-20+-ND	5-Tap Delay Line, 20nS*	8-µSOP	7.37	5.56
DS1100LZ-20+-ND	5-Tap Delay Line, 20nS*	8-SOIC	6.97	5.26
DS1100LZ-100+-ND	5-Tap Delay Line, 100nS*	8-SOIC	6.97	5.26
DS1100M-100+-ND	5-Tap Delay Line, 100nS* ***NEW!***	8-Dip	5.64	4.26
DS1100M-250+-ND	5-Tap Delay Line, 250nS* ***NEW!***	8-Dip	5.64	4.26
DS1100Z-20+-ND	5-Tap Delay Line, 20nS*	8-SOIC	6.33	4.78
DS1100Z-50+-ND	5-Tap Delay Line, 50nS*	8-SOIC	6.33	4.78
DS1100Z-100+-ND	5-Tap Delay Line, 100nS*	8-SOIC	6.33	4.78
DS1100Z-200+-ND	5-Tap Delay Line, 200nS*	8-SOIC	6.33	4.78
DS1100Z-250-ND	5-Tap Delay Line, 250nS	8-SOIC	6.33	4.78
DS1100Z-250+-ND	5-Tap Delay Line, 250nS*	8-SOIC	6.33	4.78
DS1124U-25+-ND	5V, 8-Bit Programmable Timing Element* ***NEW!***	10-µSOP	4.80	3.62
DS1672-33+-ND	3.3V, I^{2}C, 32-Bit Binary Counter*	8-Dip	3.07	2.32
DS1672S-33+-ND	3.3V, I^{2}C, 32-Bit Binary Counter*	8-SOIC	3.07	2.32
DS1672U-33+-ND	3.3V, I^{2}C, 32-Bit Binary Counter*	8-µSOP	3.07	2.32

DALLAS SEMICONDUCTOR DigiReel® VOLTAGE MONITOR

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS1231-20+-ND	Power Monitor Chip, 20nS*	8-Dip	8.29	6.26
DS1231-35+-ND	Power Monitor Chip, 35nS*	8-Dip	8.29	6.26
DS1231S-20+-ND	Power Monitor Chip, 20nS*	16-SOIC	10.07	7.60
DS1232+-ND	MicroMonitor Chip*	8-Dip	2.09	1.58
DS1232LP+-ND	Low Power MicroMonitor Chip*	8-Dip	2.25	1.70
DS1232LPS-2+-ND	Low Power MicroMonitor Chip*	8-SOIC	2.25	1.70
DS1232LPSN-2+-ND	Low Power MicroMonitor Chip, Industrial Temperature*	8-SOIC	2.60	1.96
DS1232N+-ND	MicroMonitor Chip, Industrial Temperature*	8-Dip	2.60	1.96
DS1232S+-ND	MicroMonitor Chip*	16-SOIC	2.76	2.08
DS1233-15+-ND	5V EconoReset* ***NEW!***	TO-92	1.25	1.06
DS1236-10+-ND	MicroManager™ Chip, 10%*	16-Dip	10.57	7.98
DS1239S-5-ND	MicroManager™ Chip, 5%	16-SOIC	12.35	9.32
DS1239S-5+-ND	MicroManager™ Chip, 5%*	16-SOIC	12.35	9.32
DS1705EPA+-ND	5V, MicroMonitor, 5%*	8-Dip	2.25	1.70
DS1705ESA+-ND	5V, MicroMonitor, 10%*	8-SOIC	2.25	1.70
DS1706ESA+-ND	5V, MicroMonitor, 10%*	8-SOIC	2.25	1.70
DS1706LESA+-ND	5V, MicroMonitor, 5%*	8-SOIC	2.25	1.70
DS1706SESA+-ND	3.3V, MicroMonitor, 10%*	8-SOIC	2.25	1.70
DS1706TESA+-ND	3.3V, MicroMonitor, 5%*	8-SOIC	2.25	1.70
DS1707ESA+-ND	5V, MicroMonitor, 5%*	8-SOIC	2.04	1.54
DS1708ESA+-ND	5V, MicroMonitor, 5%*	8-SOIC	2.25	1.70
DS1708SESA+-ND	3.3V, MicroMonitor, 10%*	8-SOIC	2.25	1.70
DS1708TESA+-ND	3.3V, MicroMonitor, 5%*	8-SOIC	2.25	1.70
DS1780E+-ND	CPU Peripheral Monitor*	24-TSSOP	5.04	3.80
DS1810-10+-ND	5V, EconoReset with Push-Pull Output, 10%* ***NEW!***	TO-92	1.11	.84
DS1814CR-10+CT-ND	5V, MicroMonitor with Pushbutton Reset, 10%*	SOT-23-5	1.38	1.04
DS1814CR-10+TR-ND	5V, MicroMonitor with Pushbutton Reset, 10%*	SOT-23-5	2340.00/3,000	
DS1831S+-ND	Multi-Supply Micromonitor*	16-SOIC	6.76	5.10
DS1832S+-ND	3.3V, MicroMonitor Chip*	8-SOIC	1.86	1.40
DS2436B+-ND	Battery Identification/Monitor Chip*	TO-92	4.11	3.10
DS2436Z+-ND	Battery Identification/Monitor Chip*	8-SOIC	4.11	3.10
DS2438AZ+-ND	Smart Battery Monitor*	8-SOIC	5.27	3.98
DS2438Z+-ND	Smart Battery Monitor*	8-SOIC	5.27	3.98
DS2711E+-ND	Loose Cell NiMH Charger*	16-TSSOP	4.40	3.32
DS2711Z+-ND	Loose Cell NiMH Charger*	16-SOIC	4.40	3.32
DS2712E+-ND	Loose Cell NiMH Charger*	16-TSSOP	4.40	3.32
DS2712Z+-ND	Loose Cell NiMH Charger*	16-SOIC	4.40	3.32
DS2714E+-ND	Quad Loose Cell NiMH Charger*	20-TSSOP	4.85	3.66
DS2715Z+-ND	NiMH Battery Pack Charge Controller*	16-SOIC	4.43	3.34
DS2740BU+-ND	High Precision Coulomb Counter*	8-µMAX	2.99	2.26
DS2740U+-ND	High Precision Coulomb Counter*	8-µMAX	3.31	2.50
DS2745U+-ND	I^{2}C Battery Monitor*	8-µMAX	3.66	2.76
DS2746G+-ND	2-Wire Battery Monitor with Ratiometric A/D Input*	10-TDFN	3.82	2.88
DS2756E+-ND	High Accuracy Battery Fuel Gauge with Programmable Suspend Mode*	8-TSSOP	4.69	3.54

***RoHS Compliant**

(Continued)

DALLAS SEMICONDUCTOR Digi-Reel® VOLTAGE MONITOR *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS2780E+-ND	Stand-Alone Fuel Gauge*	8-TSSOP	6.65	5.02
DS2780G+-ND	Stand-Alone Fuel Gauge*	10-TDFN	6.65	5.02
DS2781E+-ND	1-Cell or 2-Cell Stand-Alone Fuel Gauge*	8-TSSOP	7.16	5.40
DS2781G+-ND	1-Cell or 2-Cell Stand-Alone Fuel Gauge*	10-TDFN	7.16	5.40
DS2782E+-ND	Stand-Alone Fuel Gauge*	8-TSSOP	5.51	4.16
DS2786G+-ND	Stand-Alone OCV-Based Fuel Gauge*	10-TDFN	3.50	2.64
DS3994Z+-ND	4-Channel Cold-Cathode Fluorescent Lamp Controller*	28-SOIC	2.39	1.80
DS4303R-U+-ND	Electronically Programmable Voltage Reference* ***NEW!***	SOT-23-5	.93	.70
DS5001FP-16+-ND	128K Soft Microprocessor Chip*	80-TQFP	35.25	26.60

Micron Digi-Reel® DRAM — *Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.*

SDRAM

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT48H4M16LFB4-8 IT TR	557-1282-1-ND	Mobile SDRAM, 64Mb*	54-VFBGA	5.63	4.00	3.62
MT48H4M16LFB4-8 IT TR	557-1282-2-ND	Mobile SDRAM, 64Mb*	54-VFBGA	3280.00/1,000		
MT48H4M16LFB4-8 TR	557-1281-1-ND	Mobile SDRAM, 64Mb*	54-VFBGA	5.44	3.86	3.50
MT48H4M16LFB4-8 TR	557-1281-2-ND	Mobile SDRAM, 64Mb*	54-VFBGA	3169.00/1,000		
MT48H4M16LFB4-75 IT:H TR	557-1391-1-ND	Mobile SDRAM, 64Mb* ***NEW!***	54-VFBGA	5.70	3.43	3.27
MT48H4M16LFB4-75 IT:H TR	557-1391-2-ND	Mobile SDRAM, 64Mb* ***NEW!***	54-VFBGA	2912.00/1,000		
MT48H4M16LFB4-75:H TR	557-1392-1-ND	Mobile SDRAM, 64Mb* ***NEW!***	54-VFBGA	5.95	3.58	3.41
MT48H4M16LFB4-75:H TR	557-1392-2-ND	Mobile SDRAM, 64Mb* ***NEW!***	54-VFBGA	3039.00/1,000		
MT48H8M16LFB4-8 IT:J TR	557-1236-1-ND	Mobile SDRAM, 128Mb*	54-VFBGA	5.85	4.15	3.76
MT48H8M16LFB4-8 IT:J TR	557-1236-2-ND	Mobile SDRAM, 128Mb*	54-VFBGA	3403.00/1,000		
MT48H8M16LFB4-8 TR	557-1052-1-ND	Mobile SDRAM, 128Mb	54-VFBGA	6.61	4.88	4.53
MT48H8M16LFB4-8:J TR	557-1324-1-ND	Mobile SDRAM, 128Mb*	54-VFBGA	5.44	3.86	3.50
MT48H8M16LFB4-8:J TR	557-1324-2-ND	Mobile SDRAM, 128Mb*	54-VFBGA	3169.00/1,000		
MT48H8M32LFB5-8 TR	557-1054-1-ND	Mobile SDRAM, 256Mb	90-VFBGA	16.49	13.10	12.13
MT48H8M32LFB5-75 IT:G TR	557-1327-1-ND	Mobile SDRAM, 256Mb*	90-VFBGA	8.85	5.99	5.69
MT48H8M32LFB5-75 IT:G TR	557-1327-2-ND	Mobile SDRAM, 256Mb*	90-VFBGA	5154.00/1,000		
MT48H8M32LFB5-75:G TR	557-1328-1-ND	Mobile SDRAM, 256Mb*	90-VFBGA	8.05	5.71	5.17
MT48H8M32LFB5-75:G TR	557-1328-2-ND	Mobile SDRAM, 256Mb*	90-VFBGA	4685.00/1,000		
MT48H16M16LFBF-75 AT:G TR	557-1245-1-ND	Mobile SDRAM, 256Mb*	54-VFBGA	12.31	9.24	8.49
MT48H16M16LFBF-75 AT:G TR	557-1245-2-ND	Mobile SDRAM, 256Mb*	54-VFBGA	7759.00/1,000		
MT48H16M16LFBF-75 IT:G TR	557-1325-1-ND	Mobile SDRAM, 256Mb*	54-VFBGA	10.51	7.11	6.75
MT48H16M16LFBF-75 IT:G TR	557-1325-2-ND	Mobile SDRAM, 256Mb*	54-VFBGA	6116.00/1,000		
MT48H16M16LFBF-75:G TR	557-1326-1-ND	Mobile SDRAM, 256Mb*	54-VFBGA	8.05	5.71	5.17
MT48H16M16LFBF-75:G TR	557-1326-2-ND	Mobile SDRAM, 256Mb*	54-VFBGA	4685.00/1,000		
MT48H16M32LFCM-75 IT:A TR	557-1329-1-ND	Mobile SDRAM, 512Mb*	90-VFBGA	15.23	11.43	10.50
MT48H16M32LFCM-75 IT:A TR	557-1329-2-ND	Mobile SDRAM, 512Mb*	90-VFBGA	9600.00/1,000		
MT48H16M32LFCM-75 IT:B TR	557-1387-1-ND	Mobile SDRAM, 512Mb* ***NEW!***	90-VFBGA	15.23	11.43	10.50
MT48H16M32LFCM-75 IT:B TR	557-1387-2-ND	Mobile SDRAM, 512Mb* ***NEW!***	90-VFBGA	9600.00/1,000		
MT48H16M32LFCM-75:A TR	557-1330-1-ND	Mobile SDRAM, 512Mb*	90-VFBGA	12.69	9.53	8.75
MT48H16M32LFCM-75:A TR	557-1330-2-ND	Mobile SDRAM, 512Mb*	90-VFBGA	8000.00/1,000		
MT48H16M32LFCM-75:B TR	557-1388-1-ND	Mobile SDRAM, 512Mb* ***NEW!***	90-VFBGA	12.69	9.53	8.75
MT48H16M32LFCM-75:B TR	557-1388-2-ND	Mobile SDRAM, 512Mb* ***NEW!***	90-VFBGA	8000.00/1,000		
MT48H32M16LFBF-75 IT:B TR	557-1389-1-ND	Mobile SDRAM, 512Mb* ***NEW***	54-VFBGA	15.23	11.43	10.50
MT48H32M16LFBF-75 IT:B TR	557-1389-2-ND	Mobile SDRAM, 512Mb* ***NEW***	54-VFBGA	9600.00/1,000		
MT48H32M16LFBF-75:B TR	557-1390-1-ND	Mobile SDRAM, 512Mb* ***NEW***	54-VFBGA	12.69	9.53	8.75
MT48H32M16LFBF-75:B TR	557-1390-2-ND	Mobile SDRAM, 512Mb* ***NEW***	54-VFBGA	8000.00/1,000		
MT48H32M16LFCJ-75 L IT:A TR	557-1331-1-ND	Mobile SDRAM, 512Mb*	54-VFBGA	16.68	12.52	11.50
MT48H32M16LFCJ-75 L IT:A TR	557-1331-2-ND	Mobile SDRAM, 512Mb*	54-VFBGA	10514.00/1,000		
MT48H32M16LFCJ-75:A TR	557-1332-1-ND	Mobile SDRAM, 512Mb*	54-VFBGA	12.69	9.53	8.75
MT48H32M16LFCJ-75:A TR	557-1332-2-ND	Mobile SDRAM, 512Mb*	54-VFBGA	8000.00/1,000		
MT48LC2M32B2P-6:G TR	557-1071-1-ND	SDRAM, 64Mb	86-TSOP	3.80	2.63	2.41
MT48LC2M32B2P-6:G TR	557-1071-2-ND	SDRAM, 64Mb	86-TSOP	2311.00/1,000		
MT48LC2M32B2P-7 IT:G TR	557-1072-1-ND	SDRAM, 64Mb	86-TSOP	5.48	3.29	3.14
MT48LC2M32B2P-7 IT:G TR	557-1072-2-ND	SDRAM, 64Mb	86-TSOP	2797.00/1,000		
MT48LC2M32B2P-7:G TR	557-1073-1-ND	SDRAM, 64Mb	86-TSOP	5.00	3.01	2.87
MT48LC2M32B2P-7:G TR	557-1073-2-ND	SDRAM, 64Mb	86-TSOP	2554.00/1,000		
MT48LC2M32B2TG-6:G TR	557-1074-1-ND	SDRAM, 64Mb	86-TSOP	5.35	3.22	3.07
MT48LC2M32B2TG-6:G TR	557-1074-2-ND	SDRAM, 64Mb	86-TSOP	2733.00/1,000		
MT48LC2M32B2TG-7 IT:G TR	557-1075-1-ND	SDRAM, 64Mb	86-TSOP	5.48	3.29	3.14
MT48LC2M32B2TG-7 IT:G TR	557-1075-2-ND	SDRAM, 64Mb	86-TSOP	2797.00/1,000		
MT48LC2M32B2TG-7:G TR	557-1076-1-ND	SDRAM, 64Mb	86-TSOP	4.53	2.88	2.60
MT48LC2M32B2TG-7:G TR	557-1076-2-ND	SDRAM, 64Mb	86-TSOP	2311.00/1,000		
MT48LC4M16A2P-6:G TR	557-1224-1-ND	SDRAM, 64Mb*	54-TSOP	3.58	2.28	2.05
MT48LC4M16A2P-6:G TR	557-1224-2-ND	SDRAM, 64Mb*	54-TSOP	1826.00/1,000		
MT48LC4M16A2P-7E:G TR	557-1089-1-ND	SDRAM, 64Mb	54-TSOP	3.80	2.42	2.18
MT48LC4M16A2P-7E:G TR	557-1089-2-ND	SDRAM, 64Mb	54-TSOP	1941.00/1,000		
MT48LC4M16A2P-75 IT:G TR	557-1087-1-ND	SDRAM, 64Mb	54-TSOP	5.53	3.93	3.55
MT48LC4M16A2P-75 IT:G TR	557-1087-2-ND	SDRAM, 64Mb	54-TSOP	3218.00/1,000		
MT48LC4M16A2P-75 L:G TR	557-1225-1-ND	SDRAM, 64Mb*	54-TSOP	4.15	2.64	2.38
MT48LC4M16A2P-75 L:G TR	557-1225-2-ND	SDRAM, 64Mb*	54-TSOP	2120.00/1,000		
MT48LC4M16A2P-75:G TR	557-1088-1-ND	SDRAM, 64Mb	54-TSOP	4.28	2.72	2.45
MT48LC4M16A2P-75:G TR	557-1088-2-ND	SDRAM, 64Mb	54-TSOP	2184.00/1,000		
MT48LC4M16A2TG-7E:G TR	557-1092-1-ND	SDRAM, 64Mb	54-TSOP	2.90	2.18	2.00
MT48LC4M16A2TG-7E:G TR	557-1092-2-ND	SDRAM, 64Mb	54-TSOP	1862.00/1,000		
MT48LC4M16A2TG-75 IT:G TR	557-1090-1-ND	SDRAM, 64Mb	54-TSOP	5.70	3.43	3.27
MT48LC4M16A2TG-75 IT:G TR	557-1090-2-ND	SDRAM, 64Mb	54-TSOP	2912.00/1,000		
MT48LC4M16A2TG-75:G TR	557-1091-1-ND	SDRAM, 64Mb	54-TSOP	3.19	2.21	2.03
MT48LC4M16A2TG-75:G TR	557-1091-2-ND	SDRAM, 64Mb	54-TSOP	1862.00/1,000		
MT48LC4M32B2B5-7:G TR	557-1221-1-ND	SDRAM, 128Mb*	90-VFBGA	10.46	7.08	6.72
MT48LC4M32B2B5-7:G TR	557-1221-2-ND	SDRAM, 128Mb*	90-VFBGA	6091.00/1,000		
MT48LC4M32B2B5-7 IT:G TR	557-1195-1-ND	SDRAM, 128Mb	90-VFBGA	10.95	8.53	8.01
MT48LC4M32B2B5-7 IT:G TR	557-1195-2-ND	SDRAM, 128Mb	90-VFBGA	7543.00/1,000		
MT48LC4M32B2F5-7 IT:G TR	557-1093-1-ND	SDRAM, 128Mb	90-VFBGA	13.17	9.10	8.34
MT48LC4M32B2F5-7 IT:G TR	557-1093-2-ND	SDRAM, 128Mb	90-VFBGA	7543.00/1,000		
MT48LC4M32B2F5-7:G TR	557-1094-1-ND	SDRAM, 128Mb	90-VFBGA	10.78	8.10	7.43
MT48LC4M32B2F5-7:G TR	557-1094-2-ND	SDRAM, 128Mb	90-VFBGA	6797.00/1,000		
MT48LC4M32B2P-6:G TR	557-1196-1-ND	SDRAM, 128Mb	86-TSOP	9.47	6.41	6.08
MT48LC4M32B2P-6:G TR	557-1196-2-ND	SDRAM, 128Mb	86-TSOP	5512.00/1,000		
MT48LC4M32B2TG-6:G TR	557-1095-1-ND	SDRAM, 128Mb	86-TSOP	7.75	5.50	4.98
MT48LC4M32B2TG-6:G TR	557-1095-2-ND	SDRAM, 128Mb	86-TSOP	4513.00/1,000		
MT48LC4M32B2P-7:G TR	557-1216-1-ND	SDRAM, 128Mb*	86-TSOP	6.58	5.19	4.99
MT48LC4M32B2P-7:G TR	557-1216-2-ND	SDRAM, 128Mb*	86-TSOP	4800.00/1,000		
MT48LC4M32B2P-7 IT:G TR	557-1197-1-ND	SDRAM, 128Mb	86-TSOP	10.88	8.17	7.50
MT48LC4M32B2P-7 IT:G TR	557-1197-2-ND	SDRAM, 128Mb	86-TSOP	6857.00/1,000		
MT48LC4M32B2TG-7 IT:G TR	557-1096-1-ND	SDRAM, 128Mb	86-TSOP	9.66	6.53	6.21
MT48LC4M32B2TG-7 IT:G TR	557-1096-2-ND	SDRAM, 128Mb	86-TSOP	5622.00/1,000		
MT48LC8M8A2P-75:G TR	557-1219-1-ND	SDRAM, 64Mb*	54-TSOP	4.63	2.95	2.65
MT48LC8M8A2P-75:G TR	557-1219-2-ND	SDRAM, 64Mb*	54-TSOP	2362.00/1,000		
MT48LC8M8A2TG-7E:G TR	557-1106-1-ND	SDRAM, 64Mb	54-TSOP	4.79	3.31	3.04
MT48LC8M8A2TG-75:G TR	557-1105-1-ND	SDRAM, 64Mb	54-TSOP	4.79	3.31	3.08
MT48LC8M8A2TG-75:G TR	557-1105-2-ND	SDRAM, 64Mb	54-TSOP	2912.00/1,000		
MT48LC8M16A2B4-75 IT:G TR	557-1222-1-ND	SDRAM, 128Mb*	54-VFBGA	8.85	5.99	5.69
MT48LC8M16A2B4-75 IT:G TR	557-1222-2-ND	SDRAM, 128Mb*	54-VFBGA	5154.00/1,000		
MT48LC8M16A2P-7E:G TR	557-1100-1-ND	SDRAM, 128Mb	54-TSOP	5.34	3.79	3.43
MT48LC8M16A2P-7E:G TR	557-1100-2-ND	SDRAM, 128Mb	54-TSOP	3107.00/1,000		
MT48LC8M16A2P-75:G TR	557-1217-1-ND	SDRAM, 128Mb*	54-TSOP	6.65	4.72	4.28
MT48LC8M16A2P-75:G TR	557-1217-2-ND	SDRAM, 128Mb*	54-TSOP	3872.00/1,000		
MT48LC8M16A2P-75 IT:G TR	557-1099-1-ND	SDRAM, 128Mb	54-TSOP	7.46	5.29	4.79
MT48LC8M16A2P-75 IT:G TR	557-1099-2-ND	SDRAM, 128Mb	54-TSOP	4340.00/1,000		
MT48LC8M16A2TG-7E:G TR	557-1102-1-ND	SDRAM, 128Mb	54-TSOP	5.58	3.35	3.20
MT48LC8M16A2TG-7E:G TR	557-1102-2-ND	SDRAM, 128Mb	54-TSOP	2848.00/1,000		
MT48LC8M16A2TG-75 IT:G TR	557-1101-1-ND	SDRAM, 128Mb	54-TSOP	5.97	4.40	4.09
MT48LC8M16A2TG-75 IT:G TR	557-1101-2-ND	SDRAM, 128Mb	54-TSOP	3872.00/1,000		
MT48LC8M16LFB4-75M:G TR	557-1394-1-ND	Mobile SDRAM, 128Mb* ***NEW***	54-VFBGA	9.66	6.53	6.21
MT48LC8M16LFB4-75M:G TR	557-1394-2-ND	Mobile SDRAM, 128Mb* ***NEW***	54-VFBGA	5622.00/1,000		
MT48LC16M8A2BB-7E:G TR	557-1393-1-ND	SDRAM, 128Mb* ***NEW***	60-FBGA	7.86	5.58	5.05
MT48LC16M8A2BB-7E:G TR	557-1393-2-ND	SDRAM, 128Mb* ***NEW***	60-FBGA	4574.00/1,000		
MT48LC16M8A2FB-75 IT:G TR	557-1067-1-ND	SDRAM, 128Mb	60-FBGA	11.38	8.39	7.79
MT48LC16M8A2FB-75:G TR	557-1068-1-ND	SDRAM, 128Mb	60-FBGA	8.38	5.79	5.31
MT48LC16M8A2P-75:G TR	557-1218-1-ND	SDRAM, 128Mb*	54-TSOP	5.44	4.09	3.75
MT48LC16M8A2P-75:G TR	557-1218-2-ND	SDRAM, 128Mb*	54-TSOP	3514.00/1,000		
MT48LC16M8A2TG-75 IT:G TR	557-1069-1-ND	SDRAM, 128Mb	54-TSOP	7.49	5.52	5.13
MT48LC16M8A2TG-75:G TR	557-1070-1-ND	SDRAM, 128Mb	54-TSOP	5.44	4.09	3.75
MT48LC16M16A2BG-7E:D TR	557-1220-1-ND	SDRAM, 256Mb*	54-VFBGA	9.66	6.53	6.21
MT48LC16M16A2BG-7E:D TR	557-1220-2-ND	SDRAM, 256Mb*	54-VFBGA	5622.00/1,000		
MT48LC16M16A2BG-75 IT:D TR	557-1189-1-ND	SDRAM, 256Mb	54-VFBGA	11.24	8.44	7.75
MT48LC16M16A2BG-75 IT:D TR	557-1189-2-ND	SDRAM, 256Mb	54-VFBGA	7086.00/1,000		
MT48LC16M16A2BG-75:D TR	557-1190-1-ND	SDRAM, 256Mb	54-VFBGA	9.66	6.53	6.21
MT48LC16M16A2BG-75:D TR	557-1190-2-ND	SDRAM, 256Mb	54-VFBGA	5622.00/1,000		
MT48LC16M16A2FG-7E:D TR	557-1226-1-ND	SDRAM, 256Mb*	54-VFBGA	9.66	6.53	6.21
MT48LC16M16A2FG-7E:D TR	557-1226-2-ND	SDRAM, 256Mb*	54-VFBGA	5622.00/1,000		
MT48LC16M16A2FG-75 IT:D TR	557-1056-1-ND	SDRAM, 256Mb	54-VFBGA	9.98	7.49	6.88
MT48LC16M16A2FG-75 IT:D TR	557-1056-2-ND	SDRAM, 256Mb	54-VFBGA	6292.00/1,000		
MT48LC16M16A2FG-75:D TR	557-1057-1-ND	SDRAM, 256Mb	54-VFBGA	9.66	6.53	6.21
MT48LC16M16A2FG-75:D TR	557-1057-2-ND	SDRAM, 256Mb	54-VFBGA	5622.00/1,000		
MT48LC16M16A2P-6A:D TR	557-1223-1-ND	SDRAM, 256Mb*	54-TSOP	7.86	5.58	5.05
MT48LC16M16A2P-6A:D TR	557-1223-2-ND	SDRAM, 256Mb*	54-TSOP	4574.00/1,000		
MT48LC16M16A2P-7E:D TR	557-1060-1-ND	SDRAM, 256Mb	54-TSOP	8.85	5.99	5.69
MT48LC16M16A2P-7E:D TR	557-1060-2-ND	SDRAM, 256Mb	54-TSOP	5154.00/1,000		
MT48LC16M16A2P-75 IT:D TR	557-1058-1-ND	SDRAM, 256Mb	54-TSOP	9.03	6.65	6.18
MT48LC16M16A2P-75 IT:D TR	557-1058-2-ND	SDRAM, 256Mb	54-TSOP	5714.00/1,000		
MT48LC16M16A2P-75:D TR	557-1059-1-ND	SDRAM, 256Mb	54-TSOP	8.45	6.00	5.43
MT48LC16M16A2P-75:D TR	557-1059-2-ND	SDRAM, 256Mb	54-TSOP	4920.00/1,000		
MT48LC16M16A2TG-75 IT:D TR	557-1061-1-ND	SDRAM, 256Mb	54-TSOP	10.57	7.15	6.79
MT48LC16M16A2TG-75 IT:D TR	557-1061-2-ND	SDRAM, 256Mb	54-TSOP	6153.00/1,000		
MT48LC16M16A2P-75 L:D TR	557-1191-1-ND	SDRAM, 256Mb	54-TSOP	10.06	6.81	6.46
MT48LC16M16A2P-75 L:D TR	557-1191-2-ND	SDRAM, 256Mb	54-TSOP	5714.00/1,000		
MT48LC16M16A2TG-75 L:D TR	557-1062-1-ND	SDRAM, 256Mb	54-TSOP	10.15	7.62	7.00
MT48LC16M16A2TG-75 L:D TR	557-1062-2-ND	SDRAM, 256Mb	54-TSOP	6400.00/1,000		
MT48LC16M16A2TG-75:D TR	557-1063-1-ND	SDRAM, 256Mb	54-TSOP	8.45	6.00	5.43
MT48LC16M16A2TG-75:D TR	557-1063-2-ND	SDRAM, 256Mb	54-TSOP	4920.00/1,000		
MT48LC16M16A2P-7E IT:D TR	557-1192-1-ND	SDRAM, 256Mb	54-TSOP	10.57	7.15	6.79
MT48LC16M16A2P-7E IT:D TR	557-1192-2-ND	SDRAM, 256Mb	54-TSOP	6153.00/1,000		
MT48LC16M16A2TG-7E IT:D TR	557-1064-1-ND	SDRAM, 256Mb	54-TSOP	9.55	6.46	6.14
MT48LC16M16A2TG-7E IT:D TR	557-1064-2-ND	SDRAM, 256Mb	54-TSOP	5561.00/1,000		
MT48LC16M16A2TG-7E:D TR	557-1065-1-ND	SDRAM, 256Mb	54-TSOP	8.85	5.99	5.69
MT48LC16M16A2TG-7E:D TR	557-1065-2-ND	SDRAM, 256Mb	54-TSOP	5154.00/1,000		
MT48LC32M8A2FB-7E:D TR	557-1084-1-ND	SDRAM, 256Mb	60-FBGA	9.56	7.05	6.54
MT48LC32M8A2P-7E:D TR	557-1194-1-ND	SDRAM, 256Mb	54-TSOP	7.24	5.14	4.66
MT48LC32M8A2P-7E:D TR	557-1194-2-ND	SDRAM, 256Mb	54-TSOP	4217.00/1,000		
MT48LC32M8A2TG-7E:D TR	557-1086-1-ND	SDRAM, 256Mb	54-TSOP	7.24	5.14	4.66
MT48LC32M8A2TG-7E:D TR	557-1086-2-ND	SDRAM, 256Mb	54-TSOP	4217.00/1,000		
MT48LC32M8A2P-75:D TR	557-1193-1-ND	SDRAM, 256Mb	54-TSOP	7.24	5.14	4.66
MT48LC32M8A2P-75:D TR	557-1193-2-ND	SDRAM, 256Mb	54-TSOP	4217.00/1,000		
MT48LC32M8A2TG-75:D TR	557-1085-1-ND	SDRAM, 256Mb	54-TSOP	9.07	6.13	5.83
MT48LC32M8A2TG-75:D TR	557-1085-2-ND	SDRAM, 256Mb	54-TSOP	5277.00/1,000		
MT48LC32M16A2P-75 IT:C TR	557-1077-1-ND	SDRAM, 512Mb	54-TSOP	35.18	26.49	25.72
MT48LC32M16A2P-75 IT:C TR	557-1077-2-ND	SDRAM, 512Mb	54-TSOP	23665.00/1,000		
MT48LC32M16A2P-75:C TR	557-1078-1-ND	SDRAM, 512Mb	54-TSOP	23.74	18.49	17.36
MT48LC32M16A2P-75:C TR	557-1078-2-ND	SDRAM, 512Mb	54-TSOP	15968.00/1,000		
MT48LC32M16A2TG-75 IT:C TR	557-1079-1-ND	SDRAM, 512Mb	54-TSOP	35.18	26.49	25.72
MT48LC32M16A2TG-75 IT:C TR	557-1079-2-ND	SDRAM, 512Mb	54-TSOP	23665.00/1,000		
MT48LC32M16A2TG-75:C TR	557-1080-1-ND	SDRAM, 512Mb	54-TSOP	23.74	18.49	17.36
MT48LC32M16A2TG-75:C TR	557-1080-2-ND	SDRAM, 512Mb	54-TSOP	15968.00/1,000		
MT48LC64M4A2P-75:D TR	557-1289-1-ND	SDRAM, 256Mb*	54-TSOP	7.24	5.14	4.66
MT48LC64M4A2P-75:D TR	557-1289-2-ND	SDRAM, 256Mb*	54-TSOP	4217.00/1,000		
MT48LC64M4A2TG-75:D TR	557-1097-1-ND	SDRAM, 256Mb	54-TSOP	7.24	5.14	4.66
MT48LC64M4A2TG-75:D TR	557-1097-2-ND	SDRAM, 256Mb	54-TSOP	4217.00/1,000		
MT48LC64M8A2P-75:C TR	557-1198-1-ND	SDRAM, 512Mb	54-TSOP	25.73	20.04	18.82
MT48LC64M8A2P-75:C TR	557-1198-2-ND	SDRAM, 512Mb	54-TSOP	17308.00/1,000		
MT48LC64M8A2TG-75:C TR	557-1098-1-ND	SDRAM, 512Mb	54-TSOP	20.58	16.03	15.05
MT48LC64M8A2TG-75:C TR	557-1098-2-ND	SDRAM, 512Mb	54-TSOP	13842.00/1,000		
MT48LC128M4A2TG-75:C TR	557-1055-1-ND	SDRAM, 512Mb	54-TSOP	23.74	18.49	17.36
MT48V8M32LFB5-8 IT TR	557-1107-1-ND	Mobile SDRAM, 256Mb	90-VFBGA	18.53	14.72	13.63
MT48V8M32LFB5-8 TR	557-1108-1-ND	Mobile SDRAM, 256Mb	90-VFBGA	16.63	13.30	12.35

DDR

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT46H8M16LFCF-75 IT TR	557-1277-1-ND	Mobile DDR SDRAM,128Mb*	60-VFBGA	6.65	4.72	4.28
MT46H8M16LFCF-75 IT TR	557-1277-2-ND	Mobile DDR SDRAM, 128Mb*	60-VFBGA	3872.00/1,000		
MT46H8M16LFCF-75 TR	557-1276-1-ND	DDR SDRAM, 128Mb*	60-VFBGA	6.44	4.57	4.14
MT46H8M16LFCF-75 TR	557-1276-2-ND	DDR SDRAM, 128Mb*	60-VFBGA	3748.00/1,000		
MT46H8M32LFB5-6 IT:A TR	557-1279-1-ND	Mobile DDR SDRAM, 256Mb*	90-VFBGA	8.85	5.99	5.69
MT46H8M32LFB5-6 IT:A TR	557-1279-2-ND	Mobile DDR SDRAM, 256Mb*	90-VFBGA	5154.00/1,000		
MT46H8M32LFB5-6:A TR	557-1280-1-ND	Mobile DDR SDRAM, 256Mb*	90-VFBGA	8.05	5.71	5.17
MT46H8M32LFB5-6:A TR	557-1280-2-ND	Mobile DDR SDRAM, 256Mb*	90-VFBGA	4685.00/1,000		
MT46H16M16LFBF-6 IT:A TR	557-1278-1-ND	Mobile DDR SDRAM, 256Mb*	60-VFBGA	8.85	5.99	5.69
MT46H16M16LFBF-6 IT:A TR	557-1278-2-ND	Mobile DDR SDRAM, 256Mb*	60-VFBGA	5154.00/1,000		

* ***RoHS Compliant***

(Continued)

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DRAM *(Continued)* — *Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.*

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT46H16M16LFBF-6:A TR	557-1319-1-ND	Mobile DDR SDRAM, 256Mb*	60-VFBGA	8.05	5.71	5.17
MT46H16M16LFBF-6:A TR	557-1319-2-ND	Mobile DDR SDRAM, 256Mb*	60-VFBGA	4685.00/1,000		
MT46H16M32LFCM-5:B TR	557-1379-1-ND	Mobile DDR SDRAM, 512Mb* ***NEW!***	90-VFBGA	18.13	13.61	12.50
MT46H16M32LFCM-5:B TR	557-1379-2-ND	Mobile DDR SDRAM, 512Mb* ***NEW!***	90-VFBGA	11429.00/1,000		
MT46H16M32LFCM-6 IT:B TR	557-1380-1-ND	Mobile DDR SDRAM, 512Mb* ***NEW!***	90-VFBGA	15.23	11.43	10.50
MT46H16M32LFCM-6 IT:B TR	557-1380-2-ND	Mobile DDR SDRAM, 512Mb* ***NEW!***	90-VFBGA	9600.00/1,000		
MT46H16M32LFCM-6 TR	557-1320-1-ND	Mobile DDR SDRAM, 512Mb*	90-VFBGA	12.69	9.53	8.75
MT46H16M32LFCM-6 TR	557-1320-2-ND	Mobile DDR SDRAM, 512Mb*	90-VFBGA	8000.00/1,000		
MT46H16M32LFCM-6:B TR	557-1381-1-ND	Mobile DDR SDRAM, 512Mb* ***NEW!***	90-VFBGA	12.69	9.53	8.75
MT46H16M32LFCM-6:B TR	557-1381-2-ND	Mobile DDR SDRAM, 512Mb* ***NEW!***	90-VFBGA	8000.00/1,000		
MT46H32M16LFBF-5:B TR	557-1382-1-ND	Mobile DDR SDRAM, 512Mb* ***NEW!***	60-VFBGA	18.13	13.61	12.50
MT46H32M16LFBF-5:B TR	557-1382-2-ND	Mobile DDR SDRAM, 512Mb* ***NEW!***	60-VFBGA	11429.00/1,000		
MT46H32M16LFBF-6 IT:B TR	557-1383-1-ND	Mobile DDR SDRAM, 512Mb* ***NEW!***	60-VFBGA	16.31	12.25	11.25
MT46H32M16LFBF-6 IT:B TR	557-1383-2-ND	Mobile DDR SDRAM, 512Mb* ***NEW!***	60-VFBGA	10286.00/1,000		
MT46H32M16LFBF-6:B TR	557-1384-1-ND	Mobile DDR SDRAM, 512Mb* ***NEW!***	60-VFBGA	12.69	9.53	8.75
MT46H32M16LFBF-6:B TR	557-1384-2-ND	Mobile DDR SDRAM, 512Mb* ***NEW!***	60-VFBGA	8000.00/1,000		
MT46H32M16LFCK-6 IT TR	557-1323-1-ND	Mobile DDR SDRAM, 512Mb*	60-VFBGA	16.31	12.25	11.25
MT46H32M16LFCK-6 IT TR	557-1323-2-ND	Mobile DDR SDRAM, 512Mb*	60-VFBGA	10286.00/1,000		
MT46H32M16LFCK-6 TR	557-1322-1-ND	Mobile DDR SDRAM, 512Mb*	60-VFBGA	12.69	9.53	8.75
MT46H32M16LFCK-6 TR	557-1322-2-ND	Mobile DDR SDRAM, 512Mb*	60-VFBGA	8000.00/1,000		
MT46H32M32LFCM-5:A TR	557-1385-1-ND	Mobile DDR SDRAM, 1Gb* ***NEW!***	90-VFBGA	34.85	27.14	25.48
MT46H32M32LFCM-5:A TR	557-1385-2-ND	Mobile DDR SDRAM, 1Gb* ***NEW!***	90-VFBGA	23441.00/1,000		
MT46H32M32LFCM-6 IT:A TR	557-1333-1-ND	Mobile DDR SDRAM, 1Gb*	90-VFBGA	36.51	27.49	26.69
MT46H32M32LFCM-6 IT:A TR	557-1333-2-ND	Mobile DDR SDRAM, 1Gb*	90-VFBGA	24558.00/1,000		
MT46H32M32LFCM-6:A TR	557-1334-1-ND	Mobile DDR SDRAM, 1Gb*	90-VFBGA	32.86	25.59	24.03
MT46H32M32LFCM-6:A TR	557-1334-2-ND	Mobile DDR SDRAM, 1Gb*	90-VFBGA	22102.00/1,000		
MT46H64M16LFCK-5:A TR	557-1386-1-ND	Mobile DDR SDRAM, 1Gb* ***NEW!***	60-VFBGA	34.85	27.14	25.48
MT46H64M16LFCK-5:A TR	557-1386-2-ND	Mobile DDR SDRAM, 1Gb* ***NEW!***	60-VFBGA	23441.00/1,000		
MT46H64M16LFCK-6 IT:A TR	557-1335-1-ND	Mobile DDR SDRAM, 1Gb*	60-VFBGA	36.51	27.49	26.69
MT46H64M16LFCK-6 IT:A TR	557-1335-2-ND	Mobile DDR SDRAM, 1Gb*	60-VFBGA	24558.00/1,000		
MT46H64M16LFCK-6:A TR	557-1336-1-ND	Mobile DDR SDRAM, 1Gb*	60-VFBGA	32.86	25.59	24.03
MT46H64M16LFCK-6:A TR	557-1336-2-ND	Mobile DDR SDRAM, 1Gb*	60-VFBGA	22102.00/1,000		
MT46V8M16TG-6T L:D TR	557-1042-1-ND	DDR SDRAM, 128Mb	66-TSOP	5.42	3.99	3.71
MT46V16M8TG-6T IT:D TR	557-1021-1-ND	DDR SDRAM, 128Mb	66-TSOP	7.58	5.59	5.19
MT46V16M8TG-6T L:D TR	557-1022-1-ND	DDR SDRAM, 128Mb	66-TSOP	6.86	5.06	4.70
MT46V16M8TG-6T:D TR	557-1023-1-ND	DDR SDRAM, 128Mb	66-TSOP	5.97	4.40	4.09
MT46V16M8TG-6T:D TR	557-1023-2-ND	DDR SDRAM, 128Mb	66-TSOP	3872.00/1,000		
MT46V16M16BG-5B:F TR	557-1181-1-ND	DDR SDRAM, 256Mb	60-FBGA	11.07	8.31	7.63
MT46V16M16BG-5B:F TR	557-1181-2-ND	DDR SDRAM, 256Mb	60-FBGA	6977.00/1,000		
MT46V16M16BG-6 IT:F TR	557-1338-1-ND	DDR SDRAM, 256Mb*	60-FBGA	10.27	6.95	6.60
MT46V16M16BG-6 IT:F TR	557-1338-2-ND	DDR SDRAM, 256Mb*	60-FBGA	5980.00/1,000		
MT46V16M16FG-5B:F TR	557-1015-1-ND	DDR SDRAM, 256Mb	60-FBGA	9.07	6.13	5.83
MT46V16M16FG-5B:F TR	557-1015-2-ND	DDR SDRAM, 256Mb	60-FBGA	5277.00/1,000		
MT46V16M16BG-6:F TR	557-1182-1-ND	DDR SDRAM, 256Mb	60-FBGA	11.07	8.31	7.63
MT46V16M16BG-6:F TR	557-1182-2-ND	DDR SDRAM, 256Mb	60-FBGA	6977.00/1,000		
MT46V16M16FG-6:F TR	557-1016-1-ND	DDR SDRAM, 256Mb	60-FBGA	10.27	6.95	6.60
MT46V16M16P-5B:F TR	557-1183-1-ND	DDR SDRAM, 256Mb	66-TSOP	8.05	5.71	5.17
MT46V16M16TG-5B:F TR	557-1017-1-ND	DDR SDRAM, 256Mb	66-TSOP	10.06	6.81	6.46
MT46V16M16TG-5B:F TR	557-1017-2-ND	DDR SDRAM, 256Mb	66-TSOP	5857.00/1,000		
MT46V16M16P-6T IT:F TR	557-1184-1-ND	DDR SDRAM, 256Mb	66-TSOP	8.85	5.99	5.69
MT46V16M16P-6T IT:F TR	557-1184-2-ND	DDR SDRAM, 256Mb	66-TSOP	5154.00/1,000		
MT46V16M16TG-6T IT:F TR	557-1018-1-ND	DDR SDRAM, 256Mb	66-TSOP	7.65	5.43	4.91
MT46V16M16TG-6T IT:F TR	557-1018-2-ND	DDR SDRAM, 256Mb	66-TSOP	4451.00/1,000		
MT46V16M16P-6T:F TR	557-1185-1-ND	DDR SDRAM, 256Mb	66-TSOP	8.05	5.71	5.17
MT46V16M16P-6T:F TR	557-1185-2-ND	DDR SDRAM, 256Mb	66-TSOP	4685.00/1,000		
MT46V16M16TG-6T:F TR	557-1020-1-ND	DDR SDRAM, 256Mb	66-TSOP	10.06	6.81	6.46
MT46V32M4TG-6T:D TR	557-1024-1-ND	DDR SDRAM, 128Mb	66-TSOP	6.35	4.77	4.38
MT46V32M8FG-5B:G TR	557-1025-1-ND	DDR SDRAM, 256Mb	60-FBGA	6.86	5.06	4.70
MT46V32M8TG-5B:G TR	557-1027-1-ND	DDR SDRAM, 256Mb	66-TSOP	6.50	4.79	4.45
MT46V32M8P-6T IT:G TR	557-1179-1-ND	DDR SDRAM, 256Mb	66-TSOP	9.05	6.13	5.82
MT46V32M8P-6T:G TR	557-1288-1-ND	DDR SDRAM, 256Mb*	66-TSOP	7.46	5.29	4.79
MT46V32M8P-6T:G TR	557-1288-2-ND	DDR SDRAM, 256Mb*	66-TSOP	4340.00/1,000		
MT46V32M8TG-6T IT:G TR	557-1028-1-ND	DDR SDRAM, 256Mb	66-TSOP	7.65	5.43	4.91
MT46V32M8TG-6T L:G TR	557-1029-1-ND	DDR SDRAM, 256Mb	66-TSOP	6.89	5.17	4.75
MT46V32M8TG-6T:G TR	557-1030-1-ND	DDR SDRAM, 256Mb	66-TSOP	5.99	4.79	4.45
MT46V32M16BN-5B:F TR	557-1285-1-ND	DDR SDRAM, 512Mb*	60-FBGA	13.05	9.80	9.00
MT46V32M16BN-5B:F TR	557-1285-2-ND	DDR SDRAM, 512Mb*	60-FBGA	8229.00/1,000		
MT46V32M16BN-6 IT:F TR	557-1287-1-ND	DDR SDRAM, 512Mb*	60-FBGA	16.31	12.25	11.25
MT46V32M16BN-6 IT:F TR	557-1287-2-ND	DDR SDRAM, 512Mb*	60-FBGA	10286.00/1,000		
MT46V32M16BN-6:F TR	557-1286-1-ND	DDR SDRAM, 512Mb*	60-FBGA	13.05	9.80	9.00
MT46V32M16BN-6:F TR	557-1286-2-ND	DDR SDRAM, 512Mb*	60-FBGA	8229.00/1,000		
MT46V32M16P-5B:F TR	557-1212-1-ND	DDR SDRAM, 512Mb	66-TSOP	10.51	7.90	7.25
MT46V32M16P-5B:F TR	557-1212-2-ND	DDR SDRAM, 512Mb	66-TSOP	6629.00/1,000		
MT46V32M16P-6T:F TR	557-1283-1-ND	DDR SDRAM, 512Mb*	66-TSOP	10.51	7.90	7.25
MT46V32M16P-6T:F TR	557-1283-2-ND	DDR SDRAM, 512Mb*	66-TSOP	6629.00/1,000		
MT46V64M4FG-5B:G TR	557-1031-1-ND	DDR SDRAM, 256Mb	60-FBGA	7.49	6.00	5.57
MT46V64M4FG-6:G TR	557-1032-1-ND	DDR SDRAM, 256Mb	60-FBGA	7.49	6.00	5.57
MT46V64M4TG-5B:G TR	557-1033-1-ND	DDR SDRAM, 256Mb	66-TSOP	10.58	7.31	6.71
MT46V64M4TG-6T:G TR	557-1034-1-ND	DDR SDRAM, 256Mb	66-TSOP	7.58	5.24	4.81
MT46V64M8BN-5B:F TR	557-1174-1-ND	DDR SDRAM, 512Mb	60-FBGA	11.07	8.31	7.63
MT46V64M8BN-5B:F TR	557-1174-2-ND	DDR SDRAM, 512Mb	60-FBGA	6977.00/1,000		
MT46V64M8FN-5B:D TR	557-1035-1-ND	DDR SDRAM, 512Mb	60-FBGA	19.04	15.12	14.00
MT46V64M8BN-6:F TR	557-1175-1-ND	DDR SDRAM, 512Mb	60-FBGA	11.07	8.31	7.63
MT46V64M8BN-6:F TR	557-1175-2-ND	DDR SDRAM, 512Mb	60-FBGA	6971.00/1,000		
MT46V64M8FN-6:D TR	557-1036-1-ND	DDR SDRAM, 512Mb	60-FBGA	19.04	15.12	14.00
MT46V64M8FN-6:D TR	557-1036-2-ND	DDR SDRAM, 512Mb	60-FBGA	13104.00/1,000		
MT46V64M8FN-6:F TR	557-1410-1-ND	DDR SDRAM, 512Mb ***NEW!***	60-FBGA	13.97	10.49	9.63
MT46V64M8FN-6:F TR	557-1410-2-ND	DDR SDRAM, 512Mb ***NEW!***	60-FBGA	8806.00/1,000		
MT46V64M8TG-5B:D TR	557-1037-1-ND	DDR SDRAM, 512Mb	66-TSOP	11.31	8.98	8.32
MT46V64M8TG-5B:D TR	557-1037-2-ND	DDR SDRAM, 512Mb	66-TSOP	7781.00/1,000		
MT46V64M8P-5B:F TR	557-1284-1-ND	DDR SDRAM, 512Mb*	66-TSOP	9.47	6.41	6.08
MT46V64M8P-5B:F TR	557-1284-2-ND	DDR SDRAM, 512Mb*	66-TSOP	5512.00/1,000		
MT46V64M8P-6T:F TR	557-1176-1-ND	DDR SDRAM, 512Mb	66-TSOP	9.76	6.61	6.27
MT46V64M8P-6T:F TR	557-1176-2-ND	DDR SDRAM, 512Mb	66-TSOP	5684.00/1,000		
MT46V128M4FN-5B:D TR	557-1011-1-ND	DDR SDRAM, 512Mb	60-FBGA	19.79	15.72	14.55
MT46V128M4FN-5B:D TR	557-1011-2-ND	DDR SDRAM, 512Mb	60-FBGA	13619.00/1,000		
MT46V128M4FN-6:D TR	557-1012-1-ND	DDR SDRAM, 512Mb	60-FBGA	18.82	14.95	13.84
MT46V128M4FN-6:D TR	557-1012-2-ND	DDR SDRAM, 512Mb	60-FBGA	12952.00/1,000		
MT46V128M4TG-5B:D TR	557-1013-1-ND	DDR SDRAM, 512Mb	66-TSOP	15.67	12.45	11.53
MT46V128M4TG-5B:D TR	557-1013-2-ND	DDR SDRAM, 512Mb	66-TSOP	10787.00/1,000		
MT46V128M4TG-6T:D TR	557-1014-1-ND	DDR SDRAM, 512Mb	66-TSOP	14.86	11.80	10.93
MT46V128M4TG-6T:D TR	557-1014-2-ND	DDR SDRAM, 512Mb	66-TSOP	10226.00/1,000		

DDR2 — RoHS Compliant

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT47H16M16BG-3:B TR	557-1046-1-ND	DDR2 SDRAM, 256Mb	84-FBGA	9.98	7.49	6.88
MT47H16M16BG-3:B TR	557-1046-2-ND	DDR2 SDRAM, 256Mb	84-FBGA	6292.00/1,000		
MT47H16M16BG-37E:B TR	557-1045-1-ND	DDR2 SDRAM, 256Mb	84-FBGA	9.98	7.49	6.88
MT47H16M16BG-37E:B TR	557-1045-2-ND	DDR2 SDRAM, 256Mb	84-FBGA	6292.00/1,000		
MT47H32M16BN-3:D TR	557-1203-1-ND	DDR2 SDRAM, 512Mb	84-FBGA	11.33	8.51	7.82
MT47H32M16BN-3:D TR	557-1203-2-ND	DDR2 SDRAM, 512Mb	84-FBGA	7146.00/1,000		
MT47H32M16BT-3:A TR	557-1048-1-ND	DDR2 SDRAM, 512Mb	92-FBGA	45.26	37.96	35.77
MT47H32M8BP-3:B TR	557-1050-1-ND	DDR2 SDRAM, 256Mb	60-FBGA	28.05	22.28	20.63
MT47H32M8BP-37E:B TR	557-1049-1-ND	DDR2 SDRAM, 256Mb	60-FBGA	9.98	7.49	6.88
MT47H32M8BP-37E:B TR	557-1049-2-ND	DDR2 SDRAM, 256Mb	60-FBGA	6292.00/1,000		
MT47H32M16BN-5E:D TR	557-1214-1-ND	DDR2 SDRAM, 512Mb	84-FBGA	10.70	8.04	7.38
MT47H32M16BN-5E:D TR	557-1214-2-ND	DDR2 SDRAM, 512Mb	84-FBGA	6749.00/1,000		
MT47H64M4BP-37E:B TR	557-1290-1-ND	DDR2 SDRAM, 256Mb	60-FBGA	11.96	8.98	8.25
MT47H64M4BP-37E:B TR	557-1290-2-ND	DDR2 SDRAM, 256Mb	60-FBGA	7543.00/1,000		
MT47H64M8B6-25E L:D TR	557-1427-1-ND	DDR2 SDRAM, 512Mb ***NEW!***	60-FBGA	12.88	9.67	8.88
MT47H64M8B6-25E L:D TR	557-1427-2-ND	DDR2 SDRAM, 512Mb ***NEW!***	60-FBGA	8120.00/1,000		
MT47H64M8B6-3:D TR	557-1215-1-ND	DDR2 SDRAM, 512Mb	60-FBGA	10.34	7.77	7.13
MT47H64M8B6-3:D TR	557-1215-2-ND	DDR2 SDRAM, 512Mb	60-FBGA	6520.00/1,000		
MT47H64M16HR-3:E TR	557-1341-1-ND	DDR2 SDRAM, 1Gb	84-FBGA	21.07	16.41	15.41
MT47H64M16HR-3:E TR	557-1341-2-ND	DDR2 SDRAM, 1Gb	84-FBGA	14170.50/1,000		
MT47H128M4B6-3:D TR	557-1291-1-ND	DDR2 SDRAM, 512Mb	60-FBGA	14.69	11.03	10.13
MT47H128M4B6-3:D TR	557-1291-2-ND	DDR2 SDRAM, 512Mb	60-FBGA	9263.00/1,000		
MT47H128M4BT-37E:A TR	557-1044-1-ND	DDR2 SDRAM, 512Mb	92-FBGA	30.42	23.40	21.84
MT47H128M8HQ-187E:E TR	557-1425-1-ND	DDR2 SDRAM, 1Gb ***NEW!***	60-FBGA	25.23	19.64	18.44
MT47H128M8HQ-187E:E TR	557-1425-2-ND	DDR2 SDRAM, 1Gb ***NEW!***	60-FBGA	16967.00/1,000		
MT47H128M8HQ-3:E TR	557-1339-1-ND	DDR2 SDRAM, 1Gb	60-FBGA	19.25	14.99	14.08
MT47H128M8HQ-3:E TR	557-1339-2-ND	DDR2 SDRAM, 1Gb	60-FBGA	12949.00/1,000		
MT47H256M4BT-5E:A TR	557-1206-1-ND	DDR2 SDRAM, 1Gb	92-FBGA	52.67	41.50	39.90
MT47H256M4BT-5E:A TR	557-1206-2-ND	DDR2 SDRAM, 1Gb	92-FBGA	35623.00/1,000		
MT47H256M4HQ-3:E TR	557-1340-1-ND	DDR2 SDRAM, 1Gb	60-FBGA	29.21	22.74	21.36
MT47H256M4HQ-3:E TR	557-1340-2-ND	DDR2 SDRAM, 1Gb	60-FBGA	20114.00/1,000		
MT47H256M4HQ-5E:E TR	557-1207-1-ND	DDR2 SDRAM, 1Gb	60-FBGA	34.30	25.27	23.47
MT47H256M4HQ-5E:E TR	557-1207-2-ND	DDR2 SDRAM, 1Gb	60-FBGA	20577.00/1,000		

NEW! DDR3 — RoHS Compliant NEW!

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT41J64M16LA-187E:B TR	557-1378-1-ND	DDR3 SDRAM, 1Gb	96-FBGA	18.13	13.61	12.50
MT41J64M16LA-187E:B TR	557-1378-2-ND	DDR3 SDRAM, 1Gb	96-FBGA	11429.00/1,000		
MT41J128M8HX-15E:D TR	557-1376-1-ND	DDR3 SDRAM, 1Gb	78-FBGA	18.26	14.22	13.35
MT41J128M8HX-15E:D TR	557-1376-2-ND	DDR3 SDRAM, 1Gb	78-FBGA	12279.00/1,000		
MT41J128M8HX-187E:D TR	557-1377-1-ND	DDR3 SDRAM, 1Gb	78-FBGA	14.96	11.23	10.31
MT41J128M8HX-187E:D TR	557-1377-2-ND	DDR3 SDRAM, 1Gb	78-FBGA	9432.00/1,000		

FLASH — *RoHS Compliant*

NAND Flash

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT29F2G08AACWP:C TR	557-1201-1-ND	2Gb, 3.3V	48-TSOP	10.06	6.81	6.46
MT29F2G08AACWP:C TR	557-1201-2-ND	2Gb, 3.3V	48-TSOP	5857.00/1,000		
MT29F2G08AADWP:D TR	557-1354-1-ND	2Gb, 3.3V ***NEW!***	48-TSOP	7.05	5.01	4.53
MT29F2G08AADWP:D TR	557-1354-2-ND	2Gb, 3.3V ***NEW!***	48-TSOP	4106.00/1,000		
MT29F2G08AADWP-ET:D TR	557-1355-1-ND	2Gb, 3.3V ***NEW!***	48-TSOP	8.26	5.86	5.31
MT29F2G08AADWP-ET:D TR	557-1355-2-ND	2Gb, 3.3V ***NEW!***	48-TSOP	4809.00/1,000		
MT29F2G08ABDHC:D TR	557-1356-1-ND	2Gb, 1.8V ***NEW!***	63-VFBGA	7.86	5.58	5.05
MT29F2G08ABDHC:D TR	557-1356-2-ND	2Gb, 1.8V ***NEW!***	63-VFBGA	4574.00/1,000		
MT29F2G08ABDHC-ET:D TR	557-1357-1-ND	2Gb, 1.8V ***NEW!***	63-VFBGA	8.45	6.00	5.43
MT29F2G08ABDHC-ET:D TR	557-1357-2-ND	2Gb, 1.8V ***NEW!***	63-VFBGA	4920.00/1,000		
MT29F2G16AADWP:D TR	557-1358-1-ND	2Gb, 3.3V ***NEW!***	48-TSOP	7.86	5.58	5.05
MT29F2G16AADWP:D TR	557-1358-2-ND	2Gb, 3.3V ***NEW!***	48-TSOP	4574.00/1,000		
MT29F2G16AADWP-ET:D TR	557-1359-1-ND	2Gb, 3.3V ***NEW!***	48-TSOP	8.45	6.00	5.43
MT29F2G16AADWP-ET:D TR	557-1359-2-ND	2Gb, 3.3V ***NEW!***	48-TSOP	4920.00/1,000		
MT29F2G16ABDHC:D TR	557-1360-1-ND	2Gb, 1.8V ***NEW!***	63-VFBGA	8.26	5.86	5.31
MT29F2G16ABDHC:D TR	557-1360-2-ND	2Gb, 1.8V ***NEW!***	63-VFBGA	4809.00/1,000		
MT29F2G16ABDHC-ET:D TR	557-1361-1-ND	2Gb, 1.8V ***NEW!***	63-VFBGA	8.45	6.00	5.43
MT29F2G16ABDHC-ET:D TR	557-1361-2-ND	2Gb, 1.8V ***NEW!***	63-VFBGA	4920.00/1,000		
MT29F4G08AACWC:C TR	557-1362-1-ND	4Gb, 3.3V ***NEW!***	48-TSOP	10.88	8.17	7.50
MT29F4G08AACWC:C TR	557-1362-2-ND	4Gb, 3.3V ***NEW!***	48-TSOP	6857.00/1,000		
MT29F4G08AACWC-ET:C TR	557-1363-1-ND	4Gb, 3.3V ***NEW!***	48-TSOP	11.96	8.98	8.25
MT29F4G08AACWC-ET:C TR	557-1363-2-ND	4Gb, 3.3V ***NEW!***	48-TSOP	7543.00/1,000		
MT29F4G08ABCHC:C TR	557-1364-1-ND	4Gb, 1.8V ***NEW!***	63-VFBGA	11.96	8.98	8.25
MT29F4G08ABCHC:C TR	557-1364-2-ND	4Gb, 1.8V ***NEW!***	63-VFBGA	7543.00/1,000		
MT29F4G08ABCHC-ET:C TR	557-1365-1-ND	4Gb, 1.8V ***NEW!***	63-VFBGA	13.05	9.80	9.00
MT29F4G08ABCHC-ET:C TR	557-1365-2-ND	4Gb, 1.8V ***NEW!***	63-VFBGA	8229.00/1,000		
MT29F4G08ABCWC-ET:C TR	557-1366-1-ND	4Gb, 1.8V ***NEW!***	48-TSOP	13.05	9.80	9.00
MT29F4G08ABCWC-ET:C TR	557-1366-2-ND	4Gb, 1.8V ***NEW!***	48-TSOP	8229.00/1,000		
MT29F4G16AACWC:C TR	557-1367-1-ND	4Gb, 3.3V ***NEW!***	48-TSOP	11.96	8.98	8.25
MT29F4G16AACWC:C TR	557-1367-2-ND	4Gb, 3.3V ***NEW!***	48-TSOP	7543.00/1,000		
MT29F4G16AACWC-ET:C TR	557-1368-1-ND	4Gb, 3.3V ***NEW!***	48-TSOP	13.05	9.80	9.00
MT29F4G16AACWC-ET:C TR	557-1368-2-ND	4Gb, 3.3V ***NEW!***	48-TSOP	8229.00/1,000		
MT29F4G16ABCHC:C TR	557-1369-1-ND	4Gb, 1.8V ***NEW!***	63-VFBGA	13.05	9.80	9.00
MT29F4G16ABCHC:C TR	557-1369-2-ND	4Gb, 1.8V ***NEW!***	63-VFBGA	8229.00/1,000		
MT29F4G16ABCHC-ET:C TR	557-1370-1-ND	4Gb, 1.8V ***NEW!***	63-VFBGA	13.05	9.80	9.00
MT29F4G16ABCHC-ET:C TR	557-1370-2-ND	4Gb, 1.8V ***NEW!***	63-VFBGA	8229.00/1,000		
MT29F8G08AAAWP:A TR	557-1371-1-ND	8Gb, 3.3V ***NEW!***	48-TSOP	17.23	12.94	11.88
MT29F8G08AAAWP:A TR	557-1371-2-ND	8Gb, 3.3V ***NEW!***	48-TSOP	10863.00/1,000		
MT29F8G08AAAWP-ET:A TR	557-1372-1-ND	8Gb, 3.3V ***NEW!***	48-TSOP	19.04	14.30	13.13
MT29F8G08AAAWP-ET:A TR	557-1372-2-ND	8Gb, 3.3V ***NEW!***	48-TSOP	12006.00/1,000		

* *RoHS Compliant*

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

FLASH *(Continued)* — *RoHS Compliant*

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT29F8G08MAAWC-ET:B TR	557-1373-1-ND	8Gb, 3.3V ***NEW!***	48-TSOP	10.51	7.90	7.25
MT29F8G08MAAWC-ET:B TR	557-1373-2-ND	8Gb, 3.3V ***NEW!***	48-TSOP	6629.00/1,000		
MT29F8G08MADWC:D TR	557-1414-1-ND	8Gb, 3.3V ***NEW!***	48-TSOP	10.06	6.81	6.46
MT29F8G08MADWC:D TR	557-1414-2-ND	8Gb, 3.3V ***NEW!***	48-TSOP	5857.00/1,000		
MT29F16G08DAAWP-ET:A TR	557-1413-1-ND	16Gb, 3.3V ***NEW!***	48-TSOP	40.04	33.12	31.05
MT29F16G08DAAWP-ET:A TR	557-1413-2-ND	16Gb, 3.3V ***NEW!***	48-TSOP	28705.00/1,000		
MT29F16G08MAAWP:A TR	557-1374-1-ND	16Gb, 3.3V ***NEW!***	48-TSOP	15.42	11.58	10.63
MT29F16G08MAAWP:A TR	557-1374-2-ND	16Gb, 3.3V ***NEW!***	48-TSOP	9720.00/1,000		
MT29F32G08QAAWP:A TR	557-1375-1-ND	32Gb, 3.3V ***NEW!***	48-TSOP	28.21	21.97	20.63
MT29F32G08QAAWP:A TR	557-1375-2-ND	32Gb, 3.3V ***NEW!***	48-TSOP	18976.00/1,000		

PSRAM — *RoHS Compliant*

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT45V256KW16PEGA-55 WT TR	557-1415-1-ND	3.0V Core Async./Page PSRAM 4Mb ***NEW!***	48-VFBGA	3.58	2.28	2.05
MT45V256KW16PEGA-55 WT TR	557-1415-2-ND	3.0V Core Async./Page PSRAM 4Mb ***NEW!***	48-VFBGA	1826.00/1,000		
MT45V256KW16PEGA-70 WT TR	557-1416-1-ND	3.0V Core Async./Page PSRAM 4Mb ***NEW!***	48-VFBGA	3.33	2.12	1.91
MT45V256KW16PEGA-70 WT TR	557-1416-2-ND	3.0V Core Async./Page PSRAM 4Mb ***NEW!***	48-VFBGA	1698.00/1,000		
MT45V512KW16PEGA-55 WT TR	557-1417-1-ND	3.0V Core Async./Page PSRAM 8Mb ***NEW!***	48-VFBGA	3.58	2.28	2.05
MT45V512KW16PEGA-55 WT TR	557-1417-2-ND	3.0V Core Async./Page PSRAM 8Mb ***NEW!***	48-VFBGA	1826.00/1,000		
MT45V512KW16PEGA-70 WT TR	557-1418-1-ND	3.0V Core Async./Page PSRAM 8Mb ***NEW!***	48-VFBGA	3.33	2.12	1.91
MT45V512KW16PEGA-70 WT TR	557-1418-2-ND	3.0V Core Async./Page PSRAM 8Mb ***NEW!***	48-VFBGA	1698.00/1,000		
MT45W1MW16BABB-706 WT TR	557-1006-1-ND	Async./Page/Burst CellularRAM™, 16Mb	54-VFBGA	5.04	3.48	3.20
MT45W1MW16BABB-706 WT TR	557-1006-2-ND	Async./Page/Burst CellularRAM™, 16Mb	54-VFBGA	2940.00/1,000		
MT45W1MW16BDGB-701 WT TR	557-1209-1-ND	Async./Page/Burst CellularRAM™, 16Mb	54-VFBGA	4.53	2.88	2.60
MT45W1MW16BDGB-701 WT TR	557-1209-2-ND	Async./Page/Burst CellularRAM™, 16Mb	54-VFBGA	2311.00/1,000		
MT45W1MW16BDGB-708 AT TR	557-1419-1-ND	Async./Page/Burst CellularRAM™, 16Mb ***NEW!***	54-VFBGA	4.75	3.03	2.73
MT45W1MW16BDGB-708 AT TR	557-1419-2-ND	Async./Page/Burst CellularRAM™, 16Mb ***NEW!***	54-VFBGA	2426.00/1,000		
MT45W1MW16BDGB-708 WT TR	557-1274-1-ND	Async./Page/Burst CellularRAM™, 16Mb	54-VFBGA	3.33	2.12	1.91
MT45W1MW16BDGB-708 WT TR	557-1274-2-ND	Async./Page/Burst CellularRAM™, 16Mb	54-VFBGA	1698.00/1,000		
MT45W1MW16PDGA-70 WT TR	557-1275-1-ND	Async./Page CellularRAM™, 16Mb	48-VFBGA	3.33	2.12	1.91
MT45W1MW16PDGA-70 WT TR	557-1275-2-ND	Async./Page CellularRAM™, 16Mb	48-VFBGA	1698.00/1,000		
MT45W2MW16BABB-706 WT TR	557-1007-1-ND	Async./Page/Burst CellularRAM™, 32Mb	54-VFBGA	5.99	4.14	3.80
MT45W2MW16BGB-708 WT TR	557-1318-1-ND	Async./Page/Burst CellularRAM™, 32Mb	54-VFBGA	5.70	3.43	3.27
MT45W2MW16BGB-708 WT TR	557-1318-2-ND	Async./Page/Burst CellularRAM™, 32Mb	54-VFBGA	2912.00/1,000		
MT45W2MW16PGA-70 IT TR	557-1317-1-ND	Async./Page CellularRAM™, 32Mb	48-VFBGA	6.18	3.71	3.54
MT45W2MW16PGA-70 IT TR	557-1317-2-ND	Async./Page CellularRAM™, 32Mb	48-VFBGA	3154.00/1,000		
MT45W2MW16PGA-70 WT TR	557-1316-1-ND	Async./Page CellularRAM™, 32Mb	48-VFBGA	5.70	3.43	3.27
MT45W2MW16PGA-70 WT TR	557-1316-2-ND	Async./Page CellularRAM™, 32Mb	48-VFBGA	2912.00/1,000		
MT45W4MW16BBB-706 WT TR	557-1008-1-ND	Async./Page/Burst CellularRAM™, 64Mb	54-VFBGA	4.57	3.84	3.62
MT45W4MW16BCGB-708 WT TR	557-1172-1-ND	Async./Page/Burst CellularRAM™, 1.0 Memory	54-VFBGA	6.84	4.86	4.40
MT45W4MW16BCGB-708 WT TR	557-1172-2-ND	Async./Page/Burst CellularRAM™, 1.0 Memory	54-VFBGA	3983.00/1,000		
MT45W4MW16PCGA-70 WT TR	557-1210-1-ND	Async./Page CellularRAM™, 64Mb	48-VFBGA	6.84	4.86	4.40
MT45W4MW16PCGA-70 WT TR	557-1210-2-ND	Async./Page CellularRAM™, 64Mb	48-VFBGA	3983.00/1,000		
MT45W8MW16BGX-708 WT TR	557-1010-1-ND	Async./Page/Burst CellularRAM™, 128Mb	54-VFBGA	9.36	6.33	6.02
MT45W8MW16BGX-708 WT TR	557-1010-2-ND	Async./Page/Burst CellularRAM™, 128Mb	54-VFBGA	5450.00/1,000		
MT45W256KW16BEGB-708 WT TR	557-1420-1-ND	Async./Page/Burst CellularRAM™, 1.0 Memory, 4Mb ***NEW!***	54-VFBGA	3.33	2.12	1.91
MT45W256KW16BEGB-708 WT TR	557-1420-2-ND	Async./Page/Burst CellularRAM™, 1.0 Memory, 4Mb ***NEW!***	54-VFBGA	1698.00/1,000		
MT45W256KW16PEGA-70 WT TR	557-1421-1-ND	Async./Page/Burst CellularRAM™, 1.0 Memory, 4Mb ***NEW!***	48-VFBGA	3.33	2.12	1.91
MT45W256KW16PEGA-70 WT TR	557-1421-2-ND	Async./Page/Burst CellularRAM™, 1.0 Memory, 4Mb ***NEW!***	48-VFBGA	1698.00/1,000		
MT45W512KW16BEGB-708 WT TR	557-1422-1-ND	Async./Page/Burst CellularRAM™, 1.0 Memory, 8Mb ***NEW!***	54-VFBGA	3.33	2.12	1.91
MT45W512KW16BEGB-708 WT TR	557-1422-2-ND	Async./Page/Burst CellularRAM™, 1.0 Memory, 8Mb ***NEW!***	54-VFBGA	1698.00/1,000		
MT45W512KW16PEGA-70 IT TR	557-1423-1-ND	Async./Page/Burst CellularRAM™, 1.0 Memory, 8Mb ***NEW!***	48-VFBGA	3.45	2.20	1.98
MT45W512KW16PEGA-70 IT TR	557-1423-2-ND	Async./Page/Burst CellularRAM™, 1.0 Memory, 8Mb ***NEW!***	48-VFBGA	1762.00/1,000		
MT45W512KW16PEGA-70 WT TR	557-1424-1-ND	Async./Page/Burst CellularRAM™, 1.0 Memory, 8Mb ***NEW!***	48-VFBGA	3.33	2.12	1.91
MT45W512KW16PEGA-70 WT TR	557-1424-2-ND	Async./Page/Burst CellularRAM™, 1.0 Memory, 8Mb ***NEW!***	48-VFBGA	1698.00/1,000		

SDRAM — *RoHS Compliant — Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.*

Qimonda Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
HYB39S128160FE-7	675-1002-1-ND	128Mb SDRAM	54-TSOP	5.30	3.76	3.40
HYB39S128160FE-7	675-1002-2-ND	128Mb SDRAM	54-TSOP	4624.50/1,500		
HYB39S128800FE-7	675-1001-1-ND	128Mb SDRAM	54-TSOP	5.30	3.76	3.40
HYB39S128800FE-7	675-1001-2-ND	128Mb SDRAM	54-TSOP	4624.50/1,500		
HYB39S256160FE-7	675-1004-1-ND	256Mb SDRAM	54-TSOP	6.78	4.81	4.36
HYB39S256160FE-7	675-1004-2-ND	256Mb SDRAM	54-TSOP	5919.00/1,500		
HYB39S256800FE-7	675-1003-1-ND	256Mb SDRAM	54-TSOP	6.78	4.81	4.36
HYB39S256800FE-7	675-1003-2-ND	256Mb SDRAM	54-TSOP	5919.00/1,500		
HYI39S128160FE-7	675-1019-1-ND	128Mb SDRAM	54-TSOP	6.35	4.51	4.08
HYI39S128160FE-7	675-1019-2-ND	128Mb SDRAM	54-TSOP	5548.50/1,500		
HYI39S128800FE-7	675-1020-1-ND	128Mb SDRAM	54-TSOP	6.35	4.51	4.08
HYI39S128800FE-7	675-1020-2-ND	128Mb SDRAM	54-TSOP	5548.50/1,500		
DDR						
HYB25D128800CE-6	675-1005-1-ND	128Mb DDR SDRAM	66-TSOP	5.88	3.53	3.37
HYB25D128800CE-6	675-1005-2-ND	128Mb DDR SDRAM	66-TSOP	4347.00/1,500		
HYB25D256160CE-5	675-1006-1-ND	256Mb DDR SDRAM	66-TFBGA	6.35	4.51	4.08
HYB25D256160CE-5	675-1006-2-ND	256Mb DDR SDRAM	66-TFBGA	5548.50/1,500		
HYB25D512160CE-5	675-1010-1-ND	512Mb DDR SDRAM	66-TSOP	11.64	8.74	8.03
HYB25D512160CE-5	675-1010-2-ND	512Mb DDR SDRAM	66-TSOP	10980.00/1,500		
HYB25D512800CE-5	675-1009-1-ND	512Mb DDR SDRAM	66-TSOP	11.64	8.74	8.03
HYB25D512800CE-5	675-1009-2-ND	512Mb DDR SDRAM	66-TSOP	10980.00/1,500		
HYB25D512800CE-6	675-1008-1-ND	512Mb DDR SDRAM	66-TSOP	11.64	8.74	8.03
HYB25D512800CE-6	675-1008-2-ND	512Mb DDR SDRAM	66-TSOP	10980.00/1,500		
HYI25D256160CE-5	675-1021-1-ND	256Mb DDR SDRAM	66-TSOP	7.41	5.26	4.76
HYI25D256160CE-5	675-1021-2-ND	256Mb DDR SDRAM	66-TSOP	6300.00/1,500		
HYI25D512160CE-5	675-1022-1-ND	512Mb DDR SDRAM	66-TSOP	13.36	10.03	9.21
HYI25D512160CE-5	675-1022-2-ND	512Mb DDR SDRAM	66-TSOP	12600.00/1,500		
DDR2						
HYB18T1G160BF-5	675-1018-1-ND	1Gb DDR2 SDRAM	84-TFBGA	47.70	39.45	36.99
HYB18T1G160BF-5	675-1018-2-ND	1Gb DDR2 SDRAM	84-TFBGA	72000.00/2,000		
HYB18T1G800BF-3S	675-1017-1-ND	1Gb DDR2 SDRAM	68-TFBGA	47.70	39.45	36.99
HYB18T1G800BF-3S	675-1017-2-ND	1Gb DDR2 SDRAM	68-TFBGA	72000.00/2,000		
HYB18T512160BF-2.5	675-1016-1-ND	512Mb DDR2 SDRAM	84-TFBGA	17.17	12.89	11.84
HYB18T512160BF-2.5	675-1016-2-ND	512Mb DDR2 SDRAM	84-TFBGA	21600.00/2,000		
HYB18T512160BF-3.7	675-1014-1-ND	512Mb DDR2 SDRAM	84-TFBGA	12.02	9.03	8.29
HYB18T512160BF-3.7	675-1014-2-ND	512Mb DDR2 SDRAM	84-TFBGA	15120.00/2,000		
HYB18T512160BF-3S	675-1015-1-ND	512Mb DDR2 SDRAM	84-TFBGA	7.41	5.26	4.76
HYB18T512160BF-3S	675-1015-2-ND	512Mb DDR2 SDRAM	84-TFBGA	8400.00/2,000		
HYB18T512800BF-2.5	675-1013-1-ND	512Mb DDR2 SDRAM	60-TFBGA	17.17	12.89	11.84
HYB18T512800BF-2.5	675-1013-2-ND	512Mb DDR2 SDRAM	60-TFBGA	21600.00/2,000		
HYB18T512800BF-3.7	675-1011-1-ND	512Mb DDR2 SDRAM	60-TFBGA	12.02	9.03	8.29
HYB18T512800BF-3.7	675-1011-2-ND	512Mb DDR2 SDRAM	60-TFBGA	15120.00/2,000		
HYB18T512800BF-3S	675-1012-1-ND	512Mb DDR2 SDRAM	60-TFBGA	12.40	9.31	8.55
HYB18T512800BF-3S	675-1012-2-ND	512Mb DDR2 SDRAM	60-TFBGA	15600.00/2,000		

MEMORY — *RoHS Compliant Parts Available*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SRAM					
Toshiba					
TC55VEM416AXGN55-ND	16M-Bit SRAM (1M x 16)	48-BGA	16.50	15.40	14.30
Serial EEPROMs					
Microchip Technology					
AC812001-ND	PICSEE™ Introduction Design Kit	—	330.00	—	—
DV243002-ND	SEEPROM Designer's Development Kit	—	99.99	—	—
SEEPROM1-KIT-ND	Digi-Key® Low-Density Serial EEPROM Kit	—	17.95	—	—
SEEPROM2-KIT-ND	Digi-Key® Mid-Density Serial EEPROM Kit	—	17.95	—	—
SEEPROM3-KIT-ND	Digi-Key® High-Density Serial EEPROM Kit	—	19.95	—	—
SEEPROM4-KIT-ND	Digi-Key® Combo-Density Serial EEPROM Kit	—	29.95	—	—
2 Wire Interface					
24AA00-I/P-ND	16x8 I^{2}C Serial EEPROM 1.8V	8-Dip	.38	.21	.20
24AA00-I/SN-ND	16x8 I^{2}C Serial EEPROM 1.8V	8-SOIC	.35	.20	.19
24AA00-I/ST-ND	16x8 I^{2}C Serial EEPROM 1.8V	8-TSSOP	.43	.23	.22
24AA00T-I/OTCT-ND	16x8 I^{2}C Serial EEPROM 1.8V	SOT-23-5	.39	.35	.32
24AA00T-I/OTTR-ND	16x8 I^{2}C Serial EEPROM 1.8V	SOT-23-5	570.00/3,000		
24LC00/P-ND	16x8 I^{2}C Serial EEPROM 2.5V	8-Dip	.38	.21	.20
24LC00/SN-ND	16x8 I^{2}C Serial EEPROM 2.5V	8-SOIC	.35	.20	.19
24LC00-I/P-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.38	.21	.20
24LC00-I/SN-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.35	.20	.19
24LC00-I/ST-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.43	.23	.22
24LC00T-I/MCCT-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.56	.50	.45
24LC00T-I/MCTR-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	858.00/3,300		
24LC00T-I/OTCT-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	.39	.35	.32
24LC00T-I/OTTR-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	570.00/3,000		
24C00/P-ND	16x8 I^{2}C Serial EEPROM 5V	8-Dip	.38	.21	.20
24C00-I/P-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	8-Dip	.38	.21	.20
24C00-I/SN-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	8-SOIC	.35	.20	.19
24C00-I/ST-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.43	.23	.22
24C00T-I/MCCT-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	8-DFN	.56	.50	.45
24C00T-I/MCTR-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	8-DFN	858.00/3,300		
24C00T-I/OTCT-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	SOT-23-5	.39	.35	.32
24C00T-I/OTTR-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	SOT-23-5	570.00/3,000		
24AA01-I/MS-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.50	.27	.26
24AA01-I/P-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.45	.25	.24
24AA01-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.43	.23	.22
24AA01-I/ST-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.50	.27	.26
24AA01H-I/P-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V* ***NEW!***	8-Dip	.43	.23	.22
24AA01T-I/OTCT-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	.48	.43	.39
24AA01T-I/OTTR-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	660.00/3,000		
24LC01B/P-ND	1K (128x8) I^{2}C Serial EEPROM 2.5V	8-Dip	.43	.23	.22
24LC01B/SN-ND	1K (128x8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.38	.21	.20
24LC01B-I/MS-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.45	.25	.24
24LC01B-I/P-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.43	.23	.22
24LC01B-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.38	.21	.20
24LC01B-I/ST-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.45	.25	.24
24LC01BT-I/MCCT-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.59	.53	.48

* *RoHS Compliant*

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
24LC01BT-I/MCTR-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	924.00/3,300		
24LC01BT-I/OTCT-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	.42	.38	.34
24LC01BT-I/OTTR-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	600.00/3,000		
24LC01BT-I/SNCT-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.42	.38	.34
24LC01BT-I/SNTR-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	660.00/3,300		
24C01C/P-ND	1K (128x8) I^{2}C Serial EEPROM 5V (fast byte write)	8-Dip	.53	.29	.28
24C01C/SN-ND	1K (128x8) I^{2}C Serial EEPROM 5V (fast byte write)	8-SOIC	.50	.27	.26
24C01C-I/MS-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-MSOP	.55	.31	.30
24C01C-I/P-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-Dip	.53	.29	.28
24C01C-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-SOIC	.50	.27	.26
24C01C-I/ST-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.55	.31	.30
24C01CT-I/MCCT-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-DFN	.70	.63	.57
24C01CT-I/MCTR-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-DFN	1089.00/3,300		
34AA02-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V* ***NEW!***	8-MSOP	.45	.25	.24
34AA02-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V* ***NEW!***	8-Dip	.43	.23	.22
34AA02-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V* ***NEW!***	8-SOIC	.38	.21	.20
34AA02-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V* ***NEW!***	8-TSSOP	.45	.25	.24
24AA02-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.50	.27	.26
24AA02-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.45	.25	.24
24AA02-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.43	.23	.22
24AA02-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.50	.27	.26
24AA02H-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V* ***NEW!***	8-SOIC	.43	.23	.22
24AA02T-I/OTCT-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	.48	.43	.39
24AA02T-I/OTTR-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	660.00/3,000		
24AA025T-I/MCCT-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.84	.77	.73
24AA025T-I/MCTR-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1221.00/3,300		
24LCS52T-I/MCCT-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.2V	8-DFN	.78	.70	.63
24LCS52T-I/MCTR-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.2V	8-DFN	1221.00/3,300		
34LC02-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.2V* ***NEW!***	8-MSOP	.45	.25	.24
34LC02-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.2V* ***NEW!***	8-Dip	.43	.23	.22
34LC02-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.2V* ***NEW!***	8-SOIC	.38	.21	.20
34LC02-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.2V* ***NEW!***	8-TSSOP	.45	.25	.24
24LC02B/P-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V	8-Dip	.45	.25	.24
24LC02B/SN-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.43	.23	.22
24LC02B/ST-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V	8-TSSOP	.50	.27	.26
24LC02B-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.50	.27	.26
24LC02B-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.45	.25	.24
24LC02B-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.43	.23	.22
24LC02B-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.50	.27	.26
24LC02BT-I/MCCT-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.62	.55	.50
24LC02BT-I/MCTR-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	990.00/3,300		
24LC02BT-I/OTCT-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	.48	.43	.39
24LC02BT-I/OTTR-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	660.00/3,000		
24C02C/P-ND	2K (256x8) I^{2}C Serial EEPROM 5V (fast byte write)	8-Dip	.53	.29	.28
24C02C/SN-ND	2K (256x8) I^{2}C Serial EEPROM 5V (fast byte write)	8-SOIC	.50	.27	.26
24C02C-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-MSOP	.55	.31	.30
24C02C-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8Dip	.53	.29	.28
24C02C-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-SOIC	.50	.27	.26
24C02C-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.55	.31	.30
24C02CT-I/MCCT-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-DFN	.70	.63	.57
24C02CT-I/MCTR-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-DFN	1089.00/3,300		
24AA04-I/MS-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-MSOP	.53	.29	.28
24AA04-I/P-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-Dip	.50	.27	.26
24AA04-I/SN-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-SOIC	.45	.25	.24
24AA04-I/ST-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-TSSOP	.53	.29	.28
24AA04T-I/OTCT-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	SOT-23-5	.50	.45	.41
24AA04T-I/OTTR-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	SOT-23-5	720.00/3,000		
24LC04B/P-ND	4K (512x8) I^{2}C Serial EEPROM 2.5V	8-Dip	.50	.27	.26
24LC04B/SN-ND	4K (512x8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.45	.25	.24
24LC04B/ST-ND	4K (512x8) I^{2}C Serial EEPROM 2.5V	8-TSSOP	.53	.29	.28
24LC04B-I/P-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.50	.27	.26
24LC04B-I/SN-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.45	.25	.24
24LC04B-I/ST-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.53	.29	.28
24LC04B-I/MS-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.53	.29	.28
24LC04BT-I/MCCT-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.67	.60	.54
24LC04BT-I/MCTR-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1023.00/3,300		
24LC04BT-I/OTCT-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	.50	.45	.41
24LC04BT-I/OTTR-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	720.00/3,000		
24AA08-I/MS-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-MSOP	.55	.31	.30
24AA08-I/P-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-Dip	.53	.29	.28
24AA08-I/SN-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-SOIC	.50	.27	.26
24AA08-I/ST-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-TSSOP	.55	.31	.30
24AA08T-I/OTCT-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	SOT-23-5	.56	.50	.45
24AA08T-I/OTTR-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	SOT-23-5	780.00/3,000		
24LC08B/P-ND	8K (1Kx8) I^{2}C Serial EEPROM 2.5V	8-Dip	.53	.29	.28
24LC08B/SN-ND	8K (1Kx8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.50	.27	.26
24LC08B/ST-ND	8K (1Kx8) I^{2}C Serial EEPROM 2.5V	8-TSSOP	.55	.31	.30
24LC08B-I/MS-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.55	.31	.30
24LC08B-I/P-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.53	.29	.28
24LC08B-I/SN-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.50	.27	.26
24LC08B-I/ST-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.55	.31	.30
24LC08BT-I/MCCT-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.70	.63	.57
24LC08BT-I/MCTR-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1089.00/3,300		
24LC08BT-I/OTCT-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	.56	.50	.45
24LC08BT-I/OTTR-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	780.00/3,000		
24AA16-I/MS-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.60	.33	.31
24AA16-I/P-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.55	.31	.30
24AA16-I/SN-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.53	.29	.28
24AA16-I/ST-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.60	.33	.31
24AA16T-I/MCCT-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.76	.68	.61
24AA16T-I/MCTR-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1155.00/3,300		
24AA16T-I/OTCT-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	.59	.53	.48
24AA16T-I/OTTR-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	840.00/3,000		
24LC16B/P-ND	16K (2Kx8) I^{2}C Serial EEPROM 2.5V	8 Dip	.55	.31	.30
24LC16B/SN-ND	16K (2Kx8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.53	.29	.28
24LC16B-E/SN-ND	16K (2Kx8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.63	.35	.33
24LC16B-I/MS-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.60	.33	.31
24LC16B-I/P-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.55	.31	.30
24LC16B-I/ST-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.60	.33	.31
24LC16B-I/SN-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.53	.29	.28
24LC16BT-I/MCCT-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.76	.68	.61
24LC16BT-I/MCTR-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1155.00/3,300		
24LC16BT-I/OTCT-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	.59	.53	.48
24LC16BT-I/OTTR-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	840.00/3,000		
24AA32A-I/MS-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.73	.41	.39
24AA32A-I/P-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.70	.39	.37
24AA32A-I/SM-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.70	.39	.37
24AA32A-I/SN-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.68	.37	.35
24AA32A-I/ST-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.73	.41	.39
24AA32AT-I/MCCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.90	.80	.72
24AA32AT-I/MCTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1419.00/3,300		
24AA32AT-I/MSCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.81	.73	.66
24AA32AT-I/MSTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	975.00/2,500		
24LC32A/P-ND	32K (4Kx8) I^{2}C Serial EEPROM 2.5V	8-Dip	.70	.39	.37
24LC32A/SN-ND	32K (4Kx8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.68	.37	.35
24LC32A-I/MS-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.73	.41	.39
24LC32A-I/P-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.70	.39	.37
24LC32A-I/SM-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.70	.39	.37
24LC32A-I/SN-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.68	.37	.35
24LC32A-I/ST-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.73	.41	.39
24LC32AT-I/MCCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.90	.80	.72
24LC32AT-I/MCTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1419.00/3,300		
24AA64-I/MS-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-MSOP	.88	.48	.46
24AA64-I/P-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-Dip	.85	.46	.44
24AA64-I/SM-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-SOIC	.85	.46	.44
24AA64-I/SN-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-SOIC	.80	.45	.43
24AA64-I/ST-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-TSSOP	.88	.48	.46
24AA64T-I/MCCT-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-DFN	1.06	.95	.86
24AA64T-I/MCTR-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-DFN	1650.00/3,300		
24FC64-I/MF-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-DFN	1.55	.85	.81
24FC64-I/MS-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-MSOP	1.03	.56	.54
24FC64-I/P-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-DIP	.98	.54	.52
24FC64-I/SM-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-SOIC	.98	.54	.52
24FC64-I/SN-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-SOIC	.95	.52	.50
24FC64-I/ST-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-TSSOP	1.03	.56	.54
24FC64T-I/MCCT-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-DFN	1.15	1.03	.93
24FC64T-I/MCTR-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.7V	8-DFN	1650.00/3,300		
24LC64-I/MS-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.88	.48	.46
24LC64-I/P-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.85	.46	.44
24LC64-I/SM-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.85	.46	.44
24LC64-I/SN-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.80	.45	.43
24LC64-I/ST-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.88	.48	.46
24LC64T-I/MCCT-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1.06	.95	.86
24LC64T-I/MCTR-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1650.00/3,300		
24AA65/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 1.8V	8-Dip	2.80	1.54	1.48
24AA65/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 1.8V	8-SOIC	2.80	1.54	1.48
24LC65/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 2.5V	8-Dip	2.80	1.54	1.48
24LC65/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 2.5V	8-SOIC	2.80	1.54	1.48
24LC65-I/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM, Ind. Temp 2.5V	8-Dip	2.80	1.54	1.48
24LC65-I/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM, Ind. Temp 2.5V	8-SOIC	2.80	1.54	1.48
24C65/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 5V	8-Dip	2.80	1.54	1.48
24C65/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 5V	8-SOIC	2.80	1.54	1.48
24C65-I/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 5V	8-Dip	2.80	1.54	1.48
24C65-I/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 5V	8-SOIC	2.80	1.54	1.48
24AA128-I/MF-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1.75	.97	.93
24AA128-I/MS-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.23	.68	.65
24AA128-I/P-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	1.20	.66	.63
24AA128-I/SM-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.20	.66	.63
24AA128-I/SN-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.15	.64	.61
24AA128-I/ST-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.30	.71	.68
24LC128-I/MF-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1.75	.97	.93
24LC128-I/MS-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	1.23	.68	.65
24LC128-I/P-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.20	.66	.63
24LC128-I/SM-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.20	.66	.63
24LC128-I/SN-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.15	.64	.61
24LC128-I/ST-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.30	.71	.68
24FC128-I/MF-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1.90	1.04	1.00
24FC128-I/MS-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	1.38	.75	.72
24FC128-I/P-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.33	.73	.70
24FC128-I/SM-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.33	.73	.70
24FC128-I/SN-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.30	.71	.68
24FC128-I/ST-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.43	.79	.76
24AA256-I/MF-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	2.35	1.29	1.24
24AA256-I/MS-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.83	1.00	.96
24AA256-I/P-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	1.78	.98	.94
24AA256-I/SM-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.78	.98	.94
24AA256-I/SN-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.75	.97	.93
24AA256-I/ST-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.90	1.04	1.00
24LC256-E/P-ND	256K (32Kx8) I^{2}C Serial EEPROM 2.5V	8-Dip	1.90	1.04	1.00
24LC256-I/MF-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	2.35	1.29	1.24
24LC256-I/MS-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	1.83	1.00	.96
24LC256-I/P-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.78	.98	.94
24LC256-I/SM-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.78	.98	.94
24LC256-I/SN-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.75	.97	.93
24LC256-I/ST-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.90	1.04	1.00
24LC256T-I/MSCT-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	2.04	1.83	1.65
24LC256T-I/MSTR-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	2400.00/2,500		
24LC256T-I/SNCT-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.96	1.75	1.58
24LC256T-I/SNTR-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOI C	3069.00/3,300		
24FC256-I/MS-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	2.03	1.12	1.07
24FC256-I/P-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	2.00	1.10	1.05
24FC256-I/SM-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.00	1.10	1.05
24FC256-I/SN-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.95	1.08	1.04
24FC256-I/ST-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	2.10	1.16	1.11
24AA512-I/MF-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	3.95	2.18	2.09
24AA512-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	3.18	1.75	1.68
24AA512-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	3.18	1.75	1.68
24AA512-I/ST14-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	14-TSSOP	3.50	1.93	1.85
24AA512T-I/MFCT-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	4.42	3.95	3.56
24AA512T-I/MFTR-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	6897.00/3,300		
24LC512-I/MF-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	3.95	2.18	2.09
24LC512-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	3.18	1.75	1.68
24LC512-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	3.18	1.75	1.68
24LC512-I/ST14-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	14-TSSOP	3.50	1.93	1.85
24FC512-I/MF-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	3.93	2.16	2.07
24FC512-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	3.35	1.85	1.78
24FC512-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	3.35	1.85	1.78
24FC515-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	5.00	2.76	2.65
24FC515-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	5.00	2.76	2.65
24LC515-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	4.93	2.72	2.61

** RoHS Compliant*

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
24LC515-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	4.93	2.72	2.61
24LC21/P-ND	1K Dual Mode DDC™/DDC2™ for Monitors	8-Dip	.70	.39	.37
24LC21/SN-ND	1K Dual Mode DDC™/DDC2™ for Monitors	8-SOIC	.68	.37	.35
24AA1025-I/P-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	6.68	3.68	3.53
24AA1025-I/SM-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	6.68	3.68	3.53
24FC1025-I/P-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	6.75	3.72	3.57
24FC1025-I/SM-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	6.75	3.72	3.57
24FC1025T-I/SMCT-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	7.56	6.75	6.08
24FC1025T-I/SMTR-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	7497.00/2,100		
24LC1025-I/P-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	6.68	3.68	3.53
24LC1025-I/SM-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	6.68	3.68	3.53

SPI Serial EEPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
25AA010A-I/MS-ND	1K (128x8) CMOS Serial EEPROM 1.8V	8-MSOP	.70	.39	.37
25AA010A-I/P-ND	1K (128x8) CMOS Serial EEPROM 1.8V	8-Dip	.68	.37	.35
25AA010A-I/SN-ND	1K (128x8) CMOS Serial EEPROM 1.8V	8-SOIC	.63	.35	.33
25AA010A-I/ST-ND	1K (128x8) CMOS Serial EEPROM 1.8V	8-TSSOP	.70	.39	.37
25AA010AT-I/OTCT-ND	1K (128x8) CMOS Serial EEPROM 1.8V	SOT-23-6	.70	.63	.57
25AA010AT-I/OTTR-ND	1K (128x8) CMOS Serial EEPROM 1.8V	SOT-23-6	990.00/3,000		
25AA020A-I/MS-ND	2K (256x8) CMOS Serial EEPROM 1.8V	8-MSOP	.73	.41	.39
25AA020A-I/P-ND	2K (256x8) CMOS Serial EEPROM 1.8V	8-Dip	.70	.39	.37
25AA020A-I/SN-ND	2K (256x8) CMOS Serial EEPROM 1.8V	8-SOIC	.68	.37	.35
25AA020A-I/ST-ND	2K (256x8) CMOS Serial EEPROM 1.8V	8-TSSOP	.73	.41	.39
25AA020AT-I/OTCT-ND	2K (256x8) CMOS Serial EEPROM 1.8V	SOT-23-6	.76	.68	.61
25AA020AT-I/OTTR-ND	2K (256x8) CMOS Serial EEPROM 1.8V	SOT-23-6	1050.00/3,000		
25AA040A-I/MS-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-MSOP	.78	.43	.41
25AA040A-I/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.73	.41	.39
25AA040A-I/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.70	.39	.37
25AA040AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM 2.5V	SOT-23-6	.78	.70	.63
25AA040AT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM 2.5V	SOT-23-6	1110.00/3,000		
25AA040-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.88	.48	.46
25AA040-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.85	.46	.44
25LC010A-I/MS-ND	1K (128x8) CMOS Serial EEPROM 2.5V	8-MSOP	.70	.39	.37
25LC010A-I/P-ND	1K (128x8) CMOS Serial EEPROM 2.5V	8-Dip	.68	.37	.35
25LC010A-I/SN-ND	1K (128x8) CMOS Serial EEPROM 2.5V	8-SOIC	.63	.35	.33
25LC010A-I/ST-ND	1K (128x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.70	.39	.37
25LC010AT-I/OTCT-ND	1K (128x8) CMOS Serial EEPROM 2.5V	SOT-23-6	.70	.63	.57
25LC010AT-I/OTTR-ND	1K (128x8) CMOS Serial EEPROM 2.5V	SOT-23-6	990.00/3,000		
25LC020A-I/MS-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-MSOP	.73	.41	.39
25LC020A-I/SN-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-SOIC	.68	.37	.35
25LC020A-I/ST-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.73	.41	.39
25LC020AT-I/OTCT-ND	2K (256x8) CMOS Serial EEPROM 2.5V	SOT-23-6	.76	.68	.61
25LC020AT-I/OTTR-ND	2K (256x8) CMOS Serial EEPROM 2.5V	SOT-23-6	1050.00/3,000		
25LC040A-I/MS-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-MSOP	.78	.43	.41
25LC040A-I/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.73	.41	.39
25LC040A-I/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.70	.39	.37
25LC040A-I/ST-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.78	.43	.41
25LC040AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM 2.5V	SOT-23-6	.78	.70	.63
25LC040AT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM 2.5V	SOT-23-6	1110.00/3,000		
25LC040/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.88	.48	.46
25LC040/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.85	.46	.44
25LC040-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.88	.48	.46
25LC040-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.85	.46	.44
25LC040X/ST-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.90	.50	.48
25C040/SN-ND	4K (512x8) CMOS Serial EEPROM 5V	8-SOIC	.85	.46	.44
25C040-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.88	.48	.46
25C040-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.85	.46	.44
25C040X-I/ST-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.90	.50	.48
25AA080/P-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V	8-Dip	1.38	.75	.72
25AA080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V	8-SOIC	1.33	.73	.70
25AA080-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	1.38	.75	.72
25AA080-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.33	.73	.70
25AA080A-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.95	.50	.48
25AA080A-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.90	.48	.46
25AA080A-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.88	.46	.44
25AA080A-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.95	.50	.48
25AA080B-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.95	.50	.48
25AA080B-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.90	.48	.46
25AA080B-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.88	.46	.44
25AA080B-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.95	.50	.48
25LC080/P-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.38	.75	.72
25LC080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.33	.73	.70
25LC080-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.38	.75	.72
25LC080-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.33	.73	.70
25LC080A-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.95	.50	.48
25LC080A-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.90	.48	.46
25LC080A-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.88	.46	.44
25LC080A-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.95	.50	.48
25LC080B-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.95	.50	.48
25LC080B-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.90	.48	.46
25LC080B-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.88	.46	.44
25LC080B-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.95	.50	.48
25C080/P-ND	8K (1Kx8) CMOS Serial EEPROM 5V	8-Dip	1.38	.75	.72
25C080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 5V	8-SOIC	1.33	.73	.70
25C080-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	1.38	.75	.72
25C080-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	1.33	.73	.70
25AA160-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.38	.75	.72
25AA160A-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.98	.52	.50
25AA160A-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.95	.50	.48
25AA160A-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.90	.48	.46
25AA160A-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.98	.52	.50
25AA160B-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.98	.52	.50
25AA160B-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.95	.50	.48
25AA160B-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.90	.48	.46
25AA160B-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.98	.52	.50
25LC160/P-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.40	.77	.74
25LC160/SN-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.38	.75	.72
25LC160-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.40	.77	.74
25LC160-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.38	.75	.72
25LC160A-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.98	.52	.50
25LC160A-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.95	.50	.48
25LC160A-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.90	.48	.46
25LC160A-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.98	.52	.50
25LC160B-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.98	.52	.50
25LC160B-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.95	.50	.48
25LC160B-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.90	.48	.46
25LC160B-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.98	.52	.50
25C160/P-ND	16K (2Kx8) CMOS Serial EEPROM 5V	8-Dip	1.40	.77	.74
25C160/SN-ND	16K (2Kx8) CMOS Serial EEPROM 5V	8-SOIC	1.38	.75	.72
25C160-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	1.40	.77	.74
25C160-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	1.38	.75	.72
25AA320-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	1.05	.62	.59
25AA320-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.03	.60	.57
25AA320A-I/MS-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V* ***NEW!***	8-MSOP	1.05	.56	.54
25AA320AX-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V* ***NEW!***	8-TSSOP	1.05	.56	.54
25AA320X-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM 1.8V	8-TSSOP	1.08	.64	.61
25LC320/P-ND	32K (4Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.05	.62	.59
25LC320/SN-ND	32K (4Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.03	.60	.57
25LC320-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.05	.62	.59
25LC320-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.03	.60	.57
25LC320A-I/MS-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-MSOP	1.05	.56	.54
25LC320A-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-Dip	1.03	.54	.52
25LC320A-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-SOIC	.98	.52	.50
25LC320A-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-TSSOP	1.05	.56	.54
25LC320AX-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-TSSOP	1.05	.56	.54
25LC320X-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.08	.64	.61
25C320/P-ND	32K (4Kx8) CMOS Serial EEPROM 5V	8-Dip	1.05	.62	.59
25C320/SN-ND	32K (4Kx8) CMOS Serial EEPROM 5V	8-SOIC	1.03	.60	.57
25C320-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	1.05	.62	.59
25C320-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	1.03	.60	.57
25AA640-I/P-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	1.05	.64	.61
25AA640-I/SN-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.03	.62	.59
25AA640A-I/MS-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V* ***NEW!***	8-MSOP	1.05	.58	.56
25AA640A-I/P-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V* ***NEW!***	8-Dip	1.03	.56	.54
25AA640X-I/ST-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.08	.66	.63
25LC640-I/P-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.05	.64	.61
25LC640-I/SN-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.03	.62	.59
25LC640A-E/MS-ND	64K (8Kx8) CMOS Serial EEPROM, 2.5V* ***NEW!***	8-MSOP	1.15	.64	.61
25LC640A-I/MS-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-MSOP	1.05	.58	.56
25LC640A-I/P-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-Dip	1.03	.56	.54
25LC640A-I/SN-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-SOIC	.98	.54	.52
25LC640A-I/ST-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-TSSOP	1.05	.58	.56
25LC640AX-I/ST-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-TSSOP	1.05	.58	.56
25LC640T-I/SNCT-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.15	1.03	.93
25LC640T-I/SNTR-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1946.99/3,300		
25AA128-I/P-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V*	8-Dip	2.08	1.14	1.09
25AA128-I/SN-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V*	8-SOIC	2.03	1.12	1.07
25AA128-I/MF-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V* ***NEW!***	8-DFN	2.63	1.45	1.39
25LC128-I/MF-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-DFN	2.63	1.45	1.39
25LC128-I/P-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V*	8-Dip	2.08	1.14	1.09
25LC128-I/SM-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-SOIC	2.08	1.14	1.09
25LC128-I/SN-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V*	8-SOIC	2.03	1.12	1.07
25LC128-I/ST-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-TSSOP	2.10	1.16	1.11
25LC128T-I/STCT-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-TSSOP	2.10	1.16	1.11
25LC128T-I/STTR-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-TSSOP	2775.00/2,500		
25LC128X-I/ST-ND	128K (16Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-TSSOP	2.10	1.16	1.11
25AA256-I/MF-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	3.33	1.77	1.70
25AA256-I/P-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	2.78	1.47	1.41
25AA256-I/SM-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	2.78	1.47	1.41
25AA256-I/SN-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	2.73	1.45	1.39
25AA256-I/ST-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	2.80	1.54	1.48
25LC256-I/MF-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	3.33	1.77	1.70
25LC256-I/P-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	2.78	1.47	1.41
25LC256-I/SM-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.78	1.47	1.41
25LC256-I/SN-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.73	1.45	1.39
25LC256-I/ST-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	2.80	1.54	1.48
25AA512-I/MF-ND	512K (64Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V* ***NEW!***	8-DFN	3.85	2.12	2.04
25AA512-I/P-ND	512K (64Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V*	8-Dip	3.30	1.81	1.74
25AA512-I/SM-ND	512K (64Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V* ***NEW!***	8-SOIC	3.30	1.81	1.74
25AA512-I/SN-ND	512K (64Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V*	8-SOIC	3.25	1.79	1.72
25LC512-I/MF-ND	512K (64Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-DFN	3.85	2.12	2.04
25LC512-I/P-ND	512K (64Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V*	8-Dip	3.30	1.81	1.74
25LC512-I/SM-ND	512K (64Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-SOIC	3.30	1.81	1.74
25LC512-I/SN-ND	512K (64Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V*	8-SOIC	3.25	1.79	1.72
25LC512T-I/SNCT-ND	512K (64Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-SOIC	3.25	1.79	1.72
25LC512T-I/SNTR-ND	512K (64Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V* ***NEW!***	8-SOIC	5676.01/3,300		
25AA1024-I/MF-ND	1M (128Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	6.05	3.33	3.20
25AA1024-I/P-ND	1M (128Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	5.50	3.02	2.90
25AA1024-I/SM-ND	1M (128Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	5.50	3.02	2.90
25LC1024-I/MF-ND	1M (128Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V*	8-DFN	6.05	3.33	3.20
25LC1024-I/P-ND	1M (128Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V*	8-Dip	5.50	3.02	2.90
25LC1024-I/SM-ND	1M (128Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V*	8-SOIC	5.50	3.02	2.90

***** ***RoHS Compliant***

(Continued)

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3 Wire Interface

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
93AA46/P-ND	1K (128x8) CMOS Serial EEPROM, 1.8V-5.5V	8-Dip	.80	.45	.43
93AA46/SN-ND	1K (128x8) CMOS Serial EEPROM, 1.8V-5.5V	8-SOIC	.78	.43	.41
93AA46-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-SOIC	.78	.43	.41
93AA46AT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-DFN	.59	.53	.48
93AA46AT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-DFN	924.00/3,300		
93AA46AT-I/OTCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	SOT-23-6	.42	.38	.34
93AA46AT-I/OTTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	SOT-23-6	600.00/3,000		
93AA46AX-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-SOIC	.38	.21	.20
93AA46BT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-DFN	.59	.53	.48
93AA46BT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-DFN	924.00/3,300		
93AA46BT-I/OTCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	SOT-23-6	.42	.38	.34
93AA46BT-I/OTTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	SOT-23-6	600.00/3,000		
93AA46CT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-DFN	.62	.55	.50
93AA46CT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-DFN	990.00/3,300		
93AA46A-I/MS-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-MSOP	.45	.25	.24
93AA46A-I/P-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-Dip	.43	.23	.22
93AA46A-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-SOIC	.38	.21	.20
93AA46A-I/ST-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-TSSOP	.45	.25	.24
93AA46B-I/P-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-Dip	.43	.23	.22
93AA46B-I/SN-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-SOIC	.38	.21	.20
93AA46B-I/ST-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-TSSOP	.45	.25	.24
93AA46C-I/MS-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-MSOP	.50	.27	.26
93AA46C-I/P-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-Dip	.45	.25	.24
93AA46C-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-SOIC	.43	.23	.22
93AA46C-I/ST-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-TSSOP	.50	.27	.26
93LC46/P-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V	8-Dip	.80	.45	.43
93LC46A/P-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V	8-Dip	.43	.23	.22
93LC46A/SN-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V	8-SOIC	.38	.21	.20
93LC46A-I/MS-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-MSOP	.45	.25	.24
93LC46-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-SOIC	.78	.43	.41
93LC46B-I/MS-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-MSOP	.45	.25	.24
93LC46B-I/P-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-Dip	.43	.23	.22
93LC46B-I/SN-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-SOIC	.38	.21	.20
93LC46B-I/ST-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-TSSOP	.45	.25	.24
93LC46B/P-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-Dip	.43	.23	.22
93LC46B/SN-ND	1K (64x16) CMOS Serial EEPROM, 2.5V-5.5V	8-SOIC	.38	.21	.20
93LC46BT-I/MCCT-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-DFN	.59	.53	.48
93LC46BT-I/MCTR-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-DFN	924.00/3,300		
93LC46BT-I/OTCT-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	SOT-23-6	.42	.38	.34
93LC46BT-I/OTTR-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	SOT-23-6	600.00/3,000		
93LC46BT-I/SNCT-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-SOIC	.42	.38	.34
93LC46BT-I/SNTR-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-SOIC	660.00/3,300		
93LC46BT-I/STCT-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-TSSOP	.50	.45	.41
93LC46BT-I/STTR-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-TSSOP	600.00/2,500		
93LC46C-I/MS-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-MSOP	.50	.27	.26
93LC46C-I/P-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-Dip	.45	.25	.24
93LC46C-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-SOIC	.43	.23	.22
93LC46C-I/ST-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-TSSOP	.50	.27	.26
93LC46CT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-DFN	.62	.55	.50
93LC46CT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-DFN	990.00/3,300		
93LC46A-I/P-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	8-Dip	.43	.23	.22
93LC46A-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	8-SOIC	.38	.21	.20
93LC46A-I/ST-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	8-TSSOP	.45	.25	.24
93LC46AT-I/MCCT-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	8-DFN	.59	.53	.48
93LC46AT-I/MCTR-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	8-DFN	924.00/3,300		
93LC46AT-I/OTCT-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	SOT-23-6	.42	.38	.34
93LC46AT-I/OTTR-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	SOT-23-6	600.00/3,000		
93C46A-I/MS-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-MSOP	.45	.25	.24
93C46A-I/P-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-Dip	.43	.23	.22
93C46A-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-SOIC	.38	.21	.20
93C46A-I/ST-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-TSSOP	.45	.25	.24
93C46AT-I/MCCT-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-DFN	.59	.53	.48
93C46AT-I/MCTR-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-DFN	924.00/3,300		
93C46AT-I/OTCT-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	SOT-23-6	.42	.38	.34
93C46AT-I/OTTR-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	SOT-23-6	600.00/3,000		
93C46AX-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-SOIC	.38	.21	.20
93C46B-I/MS-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-MSOP	.45	.25	.24
93C46B-I/ST-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-TSSOP	.45	.25	.24
93C46BT-I/MCCT-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-DFN	.59	.53	.48
93C46BT-I/MCTR-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-DFN	924.00/3,300		
93C46BT-I/OTCT-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	SOT-23-6	.42	.38	.34
93C46BT-I/OTTR-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	SOT-23-6	600.00/3,000		
93C46C-I/MS-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-MSOP	.50	.27	.26
93C46C-I/P-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-Dip	.45	.25	.24
93C46C-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-SOIC	.43	.23	.22
93C46C-I/ST-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-TSSOP	.50	.27	.26
93C46CT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-DFN	.62	.55	.50
93C46CT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-DFN	990.00/3,300		
93AA56A-I/MS-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.50	.27	.26
93AA56A-I/P-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.45	.25	.24
93AA56A-I/SN-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.43	.23	.22
93AA56AT-I/MCCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.62	.55	.50
93AA56AT-I/MCTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	990.00/3,300		
93AA56AT-I/OTCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.48	.43	.39
93AA56AT-I/OTTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	660.00/3,000		
93AA56B-I/MS-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.50	.27	.26
93AA56B-I/SN-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.43	.23	.22
93AA56B-I/ST-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.50	.27	.26
93AA56BT-I/MCCT-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.62	.55	.50
93AA56BT-I/MCTR-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	990.00/3,300		
93AA56BT-I/OTCT-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.48	.43	.39
93AA56BT-I/OTTR-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	660.00/3,000		
93AA56C-I/MS-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.50	.27	.26
93AA56C-I/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.45	.25	.24
93AA56C-I/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.43	.23	.22
93AA56C-I/ST-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.50	.27	.26
93AA56CT-I/MCCT-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.62	.55	.50
93AA56CT-I/MCTR-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	990.00/3,300		
93AA56/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM 1.8V	8-SOIC	.88	.48	.46
93LC56/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM 2.5V	8-Dip	.90	.50	.48
93LC56/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM 2.5V	8-SOIC	.88	.48	.46
93LC56-I/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.90	.50	.48
93LC56-I/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.88	.48	.46
93LC56A/P-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-Dip	.45	.25	.24
93LC56A/SN-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-SOIC	.43	.23	.22
93LC56A-I/MS-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.50	.27	.26
93LC56A-I/P-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.45	.25	.24
93LC56A-I/ST-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.50	.27	.26
93LC56AT-I/MCCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.62	.55	.50
93LC56AT-I/MCTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	990.00/3,300		
93LC56AT-I/OTCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.48	.43	.39
93LC56AT-I/OTTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	660.00/3,000		
93LC56C-I/MS-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.50	.27	.26
93LC56C-I/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.45	.25	.24
93LC56C-I/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.43	.23	.22
93LC56C-I/ST-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.50	.27	.26
93LC56CT-I/MCCT-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.62	.55	.50
93LC56CT-I/MCTR-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	990.00/3,300		
93LC56B/P-ND	2K (128x16) CMOS Serial EEPROM 2.5V	8-Dip	.45	.25	.24
93LC56B/SN-ND	2K (128x16) CMOS Serial EEPROM 2.5V	8-SOIC	.43	.23	.22
93LC56B-I/MS-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.50	.27	.26
93LC56B-I/P-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.45	.25	.24
93LC56B-I/SN-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.43	.23	.22
93LC56B-I/ST-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.50	.27	.26
93LC56BT-I/MCCT-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.62	.55	.50
93LC56BT-I/MCTR-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	990.00/3,300		
93LC56BT-I/OTCT-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.48	.43	.39
93LC56BT-I/OTTR-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	660.00/3,000		
93C56B-I/P-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.45	.25	.24
93C56B-I/SN-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.43	.23	.22
93C56B-I/ST-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.50	.27	.26
93C56BT-I/MCCT-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	.62	.55	.50
93C56BT-I/MCTR-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	990.00/3,300		
93C56BT-I/OTCT-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	.48	.43	.39
93C56BT-I/OTTR-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	660.00/3,000		
93C56A-I/MS-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-MSOP	.50	.27	.26
93C56A-I/P-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.45	.25	.24
93C56A-I/SN-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.43	.23	.22
93C56A-I/ST-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.50	.27	.26
93C56AT-I/MCCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	.62	.55	.50
93C56AT-I/MCTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	990.00/3,300		
93C56AT-I/OTCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	.48	.43	.39
93C56AT-I/OTTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	660.00/3,000		
93C56C-I/MS-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-MSOP	.50	.27	.26

(Continued)

MEMORY *(Continued)* — RoHS Compliant Parts Available Digi-Reel®

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
93C56C-I/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.45	.25	.24
93C56C-I/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.43	.23	.22
93C56C-I/ST-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.50	.27	.26
93AA66BT-I/MCCT-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.67	.60	.54
93AA66BT-I/MCTR-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1023.00/3,300		
93AA66/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 1.8V	8-Dip	.90	.50	.48
93AA66/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 1.8V	8-SOIC	.88	.48	.46
93AA66A-I/MS-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.53	.29	.28
93AA66A-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.50	.27	.26
93AA66A-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.45	.25	.24
93AA66A-I/ST-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.53	.29	.28
93AA66AT-I/MCCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.67	.60	.54
93AA66AT-I/MCTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1023.00/3,300		
93AA66AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.50	.45	.41
93AA66AT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	720.00/3,000		
93AA66B-I/MS-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.53	.29	.28
93AA66B-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.50	.27	.26
93AA66B-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.45	.25	.24
93AA66B-I/ST-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.53	.29	.28
93AA66BT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.50	.45	.41
93AA66BT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	720.00/3,000		
93AA66C-I/MS-ND	4K (512x8 or 256x16) Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.53	.29	.28
93AA66C-I/P-ND	4K (512x8 or 256x16) Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.50	.27	.26
93AA66C-I/SN-ND	4K (512x8 or 256x16) Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.45	.25	.24
93AA66C-I/ST-ND	4K (512x8 or 256x16) Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.53	.29	.28
93AA66CT-I/MCCT-ND	4K (512x8 or 256x16) Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.67	.60	.54
93AA66CT-I/MCTR-ND	4K (512x8 or 256x16) Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1023.00/3,300		
93LC66/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 2.5V	8-Dip	.90	.50	.48
93LC66/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 2.5V	8-SOIC	.88	.48	.46
93LC66C-I/MS-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.53	.29	.28
93LC66C-I/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.50	.27	.26
93LC66C-I/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.45	.25	.24
93LC66C-I/ST-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.53	.29	.28
93LC66CT-I/MCCT-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.67	.60	.54
93LC66CT-I/MCTR-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1023.00/3,300		
93LC66A/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.50	.27	.26
93LC66A/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.45	.25	.24
93LC66A/ST-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.53	.29	.28
93LC66A-I/MS-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.53	.29	.28
93LC66A-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.50	.27	.26
93LC66A-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.45	.25	.24
93LC66A-I/ST-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.53	.29	.28
93LC66AT-I/MCCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.67	.60	.54
93LC66AT-I/MCTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1023.00/3,300		
93LC66AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.50	.45	.41
93LC66AT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	720.00/3,000		
93LC66B/P-ND	4K (256x16) CMOS Serial EEPROM 2.5V	8-Dip	.50	.27	.26
93LC66B/SN-ND	4K (256x16) CMOS Serial EEPROM 2.5V	8-SOIC	.45	.25	.24
93LC66B-I/MS-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.53	.29	.28
93LC66B-I/P-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.50	.27	.26
93LC66B-I/SN-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.45	.25	.24
93LC66B-I/ST-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.53	.29	.28
93LC66BT-I/MCCT-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.67	.60	.54
93LC66BT-I/MCTR-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1023.00/3,300		
93LC66BT-I/OTCT-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.50	.45	.41
93LC66BT-I/OTTR-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	720.00/3,000		
93C66C-I/MS-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-MSOP	.53	.29	.28
93C66C-I/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.50	.27	.26
93C66C-I/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.45	.25	.24
93C66C-I/ST-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.53	.29	.28
93C66CT-I/MCCT-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	.67	.60	.54
93C66CT-I/MCTR-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	1023.00/3,300		
93C66B-I/MS-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-MSOP	.53	.29	.28
93C66B-I/P-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.50	.27	.26
93C66B-I/SN-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.45	.25	.24
93C66B-I/ST-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.53	.29	.28
93C66BT-I/MCCT-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	.67	.60	.54
93C66BT-I/MCTR-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	1023.00/3,300		
93C66BT-I/OTCT-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	.50	.45	.41
93C66BT-I/OTTR-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	720.00/3,000		
93C66A-I/MS-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-MSOP	.53	.29	.28
93C66A-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.50	.27	.26
93C66A-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.45	.25	.24
93C66AT-I/MCCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	.67	.60	.54
93C66AT-I/MCTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	1023.00/3,300		
93C66AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	.50	.45	.41
93C66AT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	720.00/3,000		
93AA76AT-I/OTCT-ND	8K (1024x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.70	.63	.57
93AA76AT-I/OTTR-ND	8K (1024x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	990.00/3,000		
93AA76BT-I/OTCT-ND	8K (512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.70	.63	.57
93AA76BT-I/OTTR-ND	8K (512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	990.00/3,000		
93AA76C-I/P-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.68	.37	.35
93AA76C-I/SN-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.63	.35	.33
93AA76CT-I/MCCT-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.87	.78	.70
93AA76CT-I/MCTR-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1353.00/3,300		
93LC76C-I/MS-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.70	.39	.37
93LC76C-I/P-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.68	.37	.35
93LC76C-I/SN-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.63	.35	.33
93LC76C-I/ST-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.70	.39	.37
93LC76CT-I/MCCT-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.87	.78	.70
93LC76CT-I/MCTR-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1353.00/3,300		
93LC76AT-I/OTCT-ND	8K (1024x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.70	.63	.57
93LC76AT-I/OTTR-ND	8K (1024x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	990.00/3,000		
93LC76BT-I/OTCT-ND	8K (512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.70	.63	.57
93LC76BT-I/OTTR-ND	8K (512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	990.00/3,000		
93C76AT-I/OTCT-ND	8K (1024x8) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	.70	.63	.57
93C76AT-I/OTTR-ND	8K (1024x8) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	990.00/3,000		
93C76BT-I/OTCT-ND	8K (512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	.70	.63	.57
93C76BT-I/OTTR-ND	8K (512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	990.00/3,000		
93C76C-I/MS-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-MSOP	.70	.39	.37
93C76C-I/P-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-Dip	.68	.37	.35
93C76C-I/SN-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-SOIC	.63	.35	.33
93C76C-I/ST-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-TSSOP	.70	.39	.37
93AA86AT-I/OTCT-ND	16K (2048x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.78	.70	.63
93AA86AT-I/OTTR-ND	16K (2048x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	1110.00/3,000		
93AA86BT-I/OTCT-ND	16K (1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.78	.70	.63
93AA86BT-I/OTTR-ND	16K (1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	1110.00/3,000		
93AA86C-I/MS-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.78	.43	.41
93AA86C-I/P-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.73	.41	.39
93AA86C-I/SN-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.70	.39	.37
93AA86C-I/ST-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.78	.43	.41
93AA86CT-I/MCCT-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.95	.85	.77
93AA86CT-I/MCTR-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1452.00/3,300		
93LC86-I/SN-ND	16K (2Kx8 or 1Kx16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.40	.77	.74
93LC86AT-I/OTCT-ND	16K (2048x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.78	.70	.63
93LC86AT-I/OTTR-ND	16K (2048x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	1110.00/3,000		
93LC86BT-I/OTCT-ND	16K (1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.78	.70	.63
93LC86C-I/MS-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.78	.43	.41
93LC86C-I/P-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.73	.41	.39
93LC86C-I/SN-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.70	.39	.37
93LC86C-I/ST-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.78	.43	.41
93LC86CT-I/MCCT-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.95	.85	.77
93LC86CT-I/MCTR-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1452.00/3,300		
93C86AT-I/OTCT-ND	16K (2048x8) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	.78	.70	.63
93C86AT-I/OTTR-ND	16K (2048x8) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	1110.00/3,000		
93C86BT-I/OTCT-ND	16K (1024x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	.78	.70	.63
93C86BT-I/OTTR-ND	16K (1024x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	1110.00/3,000		
93C86C-I/MS-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-MSOP	.78	.43	.41
93C86C-I/P-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-Dip	.73	.41	.39
93C86C-I/SN-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-SOIC	.70	.39	.37
93C86C-I/ST-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-TSSOP	.78	.43	.41
93C86CT-I/MCCT-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-DFN	.95	.85	.77
93C86CT-I/MCTR-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-DFN	1452.00/3,300		

CYPRESS SRAM

Asynchronous SRAM — RoHS Compliant

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY7C109D-10VXI	428-2010-5-ND	1M-Bit, 128Kx8, Power Down, 10nS	32-SOJ	3.04	2.43	1.89
CY7C109D-10ZXI	428-2011-ND	1M-Bit, 128Kx8, Power Down, 10nS	32-TSOP	3.04	2.43	1.89
CY7C199D-10VXI	428-1954-5-ND	256K-Bit, 32Kx8, Power Down, 10nS	28-SOJ	1.79	1.70	1.44
CY7C199D-10ZXI	428-2013-ND	256K-Bit, 32Kx8, Power Down, 10nS	28-TSOP	2.03	1.62	1.22
CY7C199D-10ZXIT	428-2014-1-ND	256K-Bit, 32Kx8, Power Down, 10nS	28-TSOP	2.15	1.72	1.29
CY7C1006D-10VXI	428-2002-5-ND	1M-Bit, 256Kx4, Power Down, 10nS	28-SOJ	5.50	4.40	3.72
CY7C1007D-10VXI	428-2003-5-ND	1M-Bit, 1Mx1, Power Down, 10nS	28-SOJ	18.75	17.50	16.25
CY7C1009D-10VXI	428-1959-5-ND	1M-Bit, 128Kx8, Power Down, 10nS	32-SOJ	3.60	2.88	2.24
CY7C1010DV33-10ZSXI	428-1960-ND	2M-Bit, 256Kx8, Power Down, 10nS	44-TSOP	4.20	3.36	2.84
CY7C1011DV33-10ZSXI	428-1962-ND	2M-Bit, 128Kx16, Power Down, 10nS	44-TSOP	4.73	3.78	2.94
CY7C1018DV33-10VXI	428-1963-5-ND	1M-Bit, 128Kx8, Power Down, 10nS	32-SOJ	2.88	2.31	1.80
CY7C1019D-10VXI	428-1964-5-ND	1M-Bit, 128Kx8, Power Down, 10nS	32-SOJ	3.04	2.43	1.89
CY7C1019D-10ZSXI	428-1965-ND	1M-Bit, 128Kx8, Power Down, 10nS	32-TSOP	3.04	2.43	1.89
CY7C1019DV33-10BVXI	428-2004-ND	1M-Bit, 128Kx8, 3.3V, Power Down, 10nS	48-VFBGA	2.88	2.31	1.80
CY7C1019DV33-10VXI	428-1966-5-ND	1M-Bit, 128Kx8, 3.3V, Power Down, 10nS	32-SOJ	2.88	2.31	1.80
CY7C1019DV33-10ZSXI	428-1967-ND	1M-Bit, 128Kx8, 3.3V, Power Down, 10nS	32-TSOP	2.88	2.31	1.80
CY7C1020D-10VXI	428-1968-5-ND	512K-Bit, 32Kx16, Power Down, 10nS	44-SOJ	4.25	3.41	2.65
CY7C1020D-10ZSXI	428-1969-ND	512K-Bit, 32Kx16, Power Down, 10nS	44-TSOP	4.25	3.41	2.65
CY7C1020DV33-10VXI	428-2005-5-ND	512K-Bit, 32Kx16, 3.3V, Power Down, 10nS	44-SOJ	4.48	2.80	2.56
CY7C1020DV33-10ZSXI	428-1970-ND	512K-Bit, 32Kx16, 3.3V, Power Down, 10nS	44-TSOP	3.60	2.88	2.24

(Continued)

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CYPRESS SRAM *(Continued)*

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
CY7C1021D-10VXI	428-1971-5-ND	1M-Bit, 64Kx16, Power Down, 10nS	44-SOJ	3.20	2.56	1.99
CY7C1021D-10ZSXI	428-1972-ND	1M-Bit, 64Kx16, Power Down, 10nS	44-TSOP	3.20	2.56	1.99
CY7C1021DV33-10BVXI	428-2006-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 10nS	48-VFBGA	2.70	2.16	1.68
CY7C1021DV33-10VXI	428-1973-5-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 10nS	44-SOJ	2.70	2.16	1.68
CY7C1021DV33-10ZSXI	428-1974-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 10nS	44-TSOPII	2.70	2.16	1.68
CY7C1041CV33-12VXC	428-1800-ND	4M-Bit, 256Kx16, Power Down, 12nS	44-SOJ	6.08	4.86	3.78
CY7C1041CV33-15VXC	428-1734-ND	4M-Bit, 256Kx16, 3.3V, Low Power, Power Down, 15nS	44-SOJ	5.10	4.08	3.45
CY7C1041D-10VXI	428-1975-5-ND	4M-Bit, 256Kx16, LP, Power Down, 10nS	44-SOJ	6.40	5.12	4.32
CY7C1041D-10ZSXI	428-1923-ND	4M-Bit, 256Kx16, Adj., Power Down, 10nS	44-TSOP	7.10	6.75	5.70
CY7C1041DV33-10BVXI	428-1976-ND	4M-Bit, 256Kx16, 3.3V, Power Down, 10nS	44-VFBGA	5.10	4.08	3.45
CY7C1041DV33-10VXI	428-1977-5-ND	4M-Bit, 256Kx16, 3.3V, Power Down, 10nS	44-SOJ	5.10	4.08	3.45
CY7C1041DV33-10ZSXI	428-1921-ND	4M-Bit, 256Kx16, 3.3V, Power Down, 10nS	44-TSOP	5.65	5.35	4.55
CY7C1046D-10VXI	428-1978-5-ND	4M-Bit, 1Mx4, Power Down, 10nS	32-SOJ	6.40	5.12	4.32
CY7C1046DV33-10VXI	428-1979-5-ND	4M-Bit, 1Mx4, 3.3V, Power Down, 10nS	32-SOJ	6.40	5.12	4.32
CY7C1049D-10VXI	428-1980-5-ND	4M-Bit, 512Kx8, Power Down, 10nS	36-SOJ	6.40	5.12	4.32
CY7C1049CV33-15VXC	428-1737-ND	4M-Bit, 512Kx8, 3.3V, Low Power, Power Down, 15nS	36-SOJ	5.30	4.24	3.58
CY7C1049DV33-10VXI	428-1981-5-ND	4M-Bit, 512Kx8, 3.3V, Power Down, 10nS	36-SOJ	5.10	4.08	3.45
CY7C1049DV33-10ZSXI	428-1982-ND	4M-Bit, 512Kx8, 3.3V, Power Down, 10nS	44-TSOP	5.10	4.08	3.45
CY7C1061AV33-10BAXI	428-2007-ND	16M-Bit, 1Mx16, 3.3V, Power Down, 10nS	60-FBGA	45.00	42.00	39.00
CY7C1061AV33-10ZXC	428-1983-ND	16M-Bit, 1Mx16, 3.3V, Power Down, 10nS	54-TSOP	29.70	27.72	25.74
CY7C1061AV33-10ZXI	428-1984-ND	16M-Bit, 1Mx16, 3.3V, Power Down, 10nS	54-TSOP	29.70	27.72	25.74
CY7C1061AV33-12ZXC	428-1985-ND	16M-Bit, 1Mx16, 3.3V, Power Down, 12nS	54-TSOP	29.70	27.72	25.74
CY7C1069AV33-10ZXC	428-1986-ND	16M-Bit, 2Mx8, 3.3V, Power Down, 10nS	54-TSOP	29.70	27.72	25.74
CY7C1069AV33-10ZXI	428-1987-ND	16M-Bit, 2Mx8, 3.3V, Power Down, 10nS	54-TSOP	29.70	27.72	25.74
CY7C1383D-133AXC	428-1848-ND	18M-Bit, 512Kx36, 3.3V	100-TQFP	30.08	28.07	26.07
CY7C1399BN-12VXC	428-1988-5-ND	256K-Bit, 32Kx8, 3.3V, Low Power, 12nS	28-SOJ	1.85	1.48	1.15
CY7C1399BN-12VXI	428-1989-5-ND	256K-Bit, 32Kx8, 3.3V, Low Power, 12nS	28-SOJ	1.85	1.48	1.15
CY7C1399BN-12ZXC	428-1990-ND	256K-Bit, 32Kx8, 3.3V, Low Power, 12nS	28-TSOP	2.05	1.64	1.23
CY7C1399BN-15ZXI	428-1991-ND	256K-Bit, 32Kx8, 3.3V, Low Power, 15nS	28-TSOP	2.05	1.64	1.23
CY7C1399BNL-12ZXC	428-1992-ND	256K-Bit, 32Kx8, 3.3V, Low Power, 12nS	28-TSOP	2.78	2.22	1.67
CY7C1399BNL-15VXC	428-1993-5-ND	256K-Bit, 32Kx8, 3.3V, Low Power, 15nS	28-SOJ	2.78	2.22	1.67

Synchronous SRAM

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
CY7C1347G-133AXC	428-1741-ND	128Kx36, 3.3V Sync. Pipe SRAM*	100-TQFP	10.10	8.08	6.82
CY7C1352G-133AXC	428-1739-ND	256Kx18, 3.3V NoBL™ Sync. Pipe SRAM*	100-TQFP	10.10	8.08	6.82
CY7C1355B-100AC	428-1501-ND	256Kx36, 3.3V NoBL™ Sync. Flow Through SRAM	100-TQFP	14.28	12.86	11.40
CY7C1355C-133AXC	428-1862-ND	256Kx36, 3.3V NoBL™ Sync. SRAM*	100-TQFP	16.08	14.48	12.84
CY7C1370DV25-167AXC	428-1633-ND	512Kx36, 2.5V NoBL™ Sync. Pipe SRAM*	100-TQFP	30.08	28.07	26.07
CY7C1371D-100AXC	428-1631-ND	512Kx36, 3.3V NoBL™ Sync. Flow Through SRAM*	100-TQFP	30.08	28.07	26.07
CY7C1380D-167AXC	428-1629-ND	512Kx36, 3.3V Sync. Pipe SRAM*	100-TQFP	30.08	28.07	26.07
CY7C1382D-167AXC	428-1632-ND	512Kx36, 3.3V Sync. Pipe SRAM*	100-TQFP	30.08	28.07	26.07
CY7C1386D-167AXC	428-1740-ND	18M-Bit, 512Kx36/1M-Bitx8, 3.3V Pipe DCD Sync. SRAM*	100-TQFP	40.10	32.08	27.07
CY7C1463AV33-133AXC	428-2026-ND	36M-Bit (1Mx36/2Mx18/512Kx72) NoBL™ Sync. Flow Through SRAM*	100-TQFP	72.00	67.20	62.40

Dual Port SRAM

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
CY7C006A-20AXC	428-1788-ND	128K-Bit, 16Kx8, Async. Power Down, 20nS*	64-TQFP	22.05	20.58	19.11
CY7C006A-20JC	428-1142-ND	128K-Bit, 16Kx8, Async. Power Down, 20nS	68-PLCC	22.05	20.58	19.11
CY7C009V-15AXC	428-1786-ND	1M-Bit, 128Kx8, 3.3V, Async. Power Down, 15nS*	100-TQFP	72.00	67.20	62.40
CY7C024-15AXC	428-1789-ND	64K-Bit, 4Kx16, 5V, Async. Power Down, 15nS*	100-TQFP	23.70	22.12	20.54
CY7C024AV-25AC	428-1155-ND	64K-Bit, 4Kx16, 3.3V, Async. Power Down, 25nS	100-TQFP	16.35	15.26	14.17
CY7C024AV-25AXC	428-1790-ND	64K-Bit, 4Kx16, 3.3V, Async. Power Down, 25nS*	100-TQFP	16.35	15.26	14.17
CY7C025AV-20AXC	428-1752-ND	128K-Bit, 8Kx16, 3.3V, Async. Power Down Interrupt, Busy, 20nS*	100-TQFP	27.90	20.95	18.55
CY7C026A-20AXC	428-1753-ND	256K-Bit, 16Kx16, Async. Power Down, 20nS*	100-TQFP	38.00	28.50	25.30
CY7C027V-15AXC	428-1754-ND	512K-Bit, 32Kx16, 3.3V, Async. Power Down, 15nS*	100-TQFP	65.80	49.35	43.76
CY7C028-15AC	428-1443-ND	SRAM 64Kx16, Async. Power Down, 12nS	100-TQFP	72.30	67.48	62.66
CY7C028V-15AXC	428-1755-ND	1M-Bit, 64Kx16, 3.3V, Async. Power Down, 15nS*	100-TQFP	72.38	67.55	62.73
CY7C131-55JXC	428-1791-ND	8K-Bit, 1Kx8, Async. Power Down Master 55nS*	52-PLCC	6.90	5.52	4.66
CY7C136-25JXC	428-2038-5-ND	16K-Bit, 2Kx8, Async., Power Down, 15nS Access* ***NEW!***	52-PLCC	10.33	9.30	8.25
CY7C09269V-12AC	428-1183-ND	256K-Bit, 16Kx16, 3.3V, Sync. 3-Mode Power Down, 12nS	100-TQFP	30.08	28.07	26.07
CY7C09279-12AC	428-1184-ND	512K-Bit, 32Kx16, Sync. 3-Mode Power Down, 12nS	100-TQFP	37.95	35.42	32.89
CY7C09349A-12AC	428-1446-ND	64K-Bit, 4Kx18, Sync., Power Down, 12nS	100-TQFP	16.50	15.40	14.30
CYD09S18V18-200BBXC	428-2034-ND	9M-Bit, 512Kx8, FullFlex™ Synchronous SDR Dual-Port SRAM* ***NEW!***	256-FBGA	163.50	152.60	141.70
CYD09S36V18-200BBXC	428-2035-ND	9M-Bit, 256Kx36, FullFlex™ Synchronous SDR Dual-Port SRAM* ***NEW!***	256-FBGA	163.50	152.60	141.70
CYD18S18V18-200BBAXC	428-2036-ND	18M-Bit, 1Mx18, FullFlex™ Synchronous SDR Dual-Port SRAM* ***NEW!***	256-FBGA	201.60	188.16	174.72

Low Power SRAM — RoHS Compliant

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
CY6264-70SNXC	428-1785-ND	64K-Bit, 8Kx8, Power Down SRAM	28-SOIC	4.45	4.20	3.50
CY62128ELL-45SXI	428-1941-5-ND	1M-Bit, 128Kx8 SRAM	32-SOIC	3.62	2.90	2.26
CY62128ELL-45ZXI	428-2040-ND	1M-Bit, 128Kx8, 5V, Power Down SRAM ***NEW!***	32-TSOP	3.62	2.90	2.26
CY62148ELL-45ZSXI	428-1804-ND	4M-Bit, 512Kx8, Power Down SRAM	32-TSOP	7.95	7.55	6.30
CY62167DV30LL-55BVXI	428-2041-ND	16M-Bit, 1Mx16, SRAM ***NEW!***	48-VFBGA	10.50	9.45	8.38
CY62167DV30LL-55ZXI	428-1860-ND	16M-Bit, 1Mx16, SRAM	48-TSOP	13.95	13.25	11.05
CY62256NLL-70PXC	428-2037-5-ND	256K-Bit, 32Kx8, 5V, Power Down SRAM ***NEW!***	28-Dip	2.59	2.07	1.61
CY62256NLL-70SNXC	428-2039-5-ND	256K-Bit, 32Kx8, 5V, Power Down SRAM ***NEW!***	28-SOIC	2.25	1.80	1.40
CY62256VNLL-70SNXI	428-2001-5-ND	256K-Bit, 32Kx8, Power Down SRAM	28-SOIC	2.25	1.80	1.40

Nonvolatile SRAM — RoHS Compliant

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
CY14B101K-SP35XC	428-2027-5-ND	1M-Bit, 128Kx8, nvSRAM, RTC, 35nS	48-SSOP	27.06	25.26	23.46
CY14B101L-SP35XC	428-2028-5-ND	1M-Bit, 128Kx8, nvSRAM, 35nS	48-SSOP	24.53	22.89	21.26
CY14B101L-SZ35XC	428-2029-5-ND	1M-Bit, 128Kx8, nvSRAM, 35nS	32-SOIC	23.63	22.05	20.48
CY14B256K-SP35XC	428-2030-5-ND	256K-Bit, 32Kx8, nvSRAM, RTC, 35nS	48-SSOP	17.52	16.36	15.19
CY14B256L-SP35XC	428-2031-5-ND	256K-Bit, 32Kx8, nvSRAM, 35nS	48-SSOP	14.96	13.96	12.97
CY14B256L-SZ35XC	428-2032-5-ND	256K-Bit, 32Kx8, nvSRAM, 35nS	32-SOIC	14.76	13.78	12.80

CYPRESS FIFO

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
CY7C433-10JXC	428-1763-5-ND	4Kx9, Async. Parallel-Cascade FIFO, 10nS*	32-PLCC	10.58	9.87	9.17
CY7C4201V-15AXC	428-1757-ND	256x9, 3.3V Sync. FIFO, 15nS*	32-TQFP	9.68	9.03	8.39
CY7C4205-10AC	428-1207-ND	256x18, Sync. FIFO, 10nS	64-TQFP	16.58	15.47	14.37
CY7C4225-15AXC	428-1758-ND	1Kx18, Sync. FIFO, 15nS*	64-TQFP	16.73	15.61	14.50
CY7C4225V-15ASXC	428-1714-ND	1Kx18, 3.3V Sync. FIFO, 15nS*	64-STQFP	16.73	15.61	14.50
CY7C4231V-15JXC	428-1759-5-ND	2Kx9, 3.3V Sync. FIFO, 15nS*	32-PLCC	18.36	14.69	12.40
CY7C4235V-15ASC	428-1222-ND	2Kx18, 3.3V Sync. FIFO, 15nS	64-STQFP	19.77	18.46	17.14
CY7C4235V-15ASXC	428-1715-ND	2Kx18, 3.3V Sync. FIFO, 15nS*	64-STQFP	19.80	18.48	17.16
CY7C4241V-15JC	428-1224-ND	4Kx9, 3.3V Sync. FIFO, 15nS	32-PLCC	16.32	15.24	14.15
CY7C4245V-15ASXC	428-1716-ND	4Kx18, 3.3V Sync. FIFO, 15nS*	64-STQFP	22.43	20.93	19.44
CY7C4251-15AC	428-1228-ND	8Kx9, Sync. FIFO, 15nS	32-TQFP	18.53	17.29	16.06
CY7C4251-15AXC	428-1761-ND	8Kx9, Sync. FIFO, 15nS*	32-TQFP	17.93	16.73	15.54
CY7C4251V-15AXC	428-1762-ND	8Kx9, 3.3V Sync. FIFO, 15nS*	32-TQFP	17.93	16.73	15.54

CYPRESS BUFFERS

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
CY2305SXC-1	428-1766-5-ND	Zero Delay Buffer 3.3V Internal Feedback*	8-SOIC	1.30	1.04	.88
CY2305SXC-1H	428-1767-5-ND	Zero Delay Buffer 3.3V Internal Feedback*	8-SOIC	1.44	1.16	.98
CY2305SXI-1	428-1792-ND	Zero Delay Buffer 3.3V Internal Feedback*	8-SOIC	1.96	1.57	1.22
CY2305SI-1H	428-1349-ND	Zero Delay Buffer 3.3V Internal Feedback	8-SOIC	2.28	1.82	1.37
CY2308SXC-1	428-1768-5-ND	Zero Delay Buffer 3.3V External Feedback*	16-SOIC	3.34	2.68	2.26
CY2308SXC-2	428-1769-5-ND	Zero Delay Buffer 3.3V External Feedback*	16-SOIC	3.10	2.48	2.10
CY2308ZI-1H	428-1355-ND	Zero Delay Buffer 3.3V External Feedback	16-TSSOP	4.50	3.60	2.80
CY2309SC-1	428-1365-ND	Zero Delay Buffer 3.3V Internal Feedback	16-SOIC	2.72	2.18	1.70
CY2309ZXC-1H	428-1793-ND	Zero Delay Buffer 3.3V Internal Feedback*	16-TSSOP	4.95	3.96	3.08
CY2309ZI-1H	428-1370-ND	Zero Delay Buffer 3.3V Internal Feedback	16-TSSOP	4.88	3.91	3.04
CY7B991-7JC	428-1376-ND	Clock Buffer TTL Out	32-PLCC	8.95	8.06	7.15
CY7B991-7JXC	428-1717-5-ND	Clock Buffer TTL Out*	32-PLCC	11.25	10.13	8.98
CY7B991V-2JXC	428-1718-5-ND	Clock Buffer 3.3V*	32-PLCC	15.00	14.00	13.00
CY7B991V-7JXC	428-1770-5-ND	Clock Buffer 3.3V*	32-PLCC	11.25	10.13	8.98
W256H	428-1399-ND	Clock Buffer 3.3V 12 Out DIMM 3SDRAM	28-SSOP	3.04	2.43	1.89

CYPRESS CLOCK GENERATORS

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
CY2292FXC	428-1745-5-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	16-SOIC	2.70	2.16	1.83
CY22800FXC	428-1809-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	1.91	1.74	1.49
CY22800FXC-001A	428-1810-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-002A	428-1811-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-003A	428-1812-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-004A	428-1813-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-005A	428-1814-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-006A	428-1815-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-007A	428-1816-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-008A	428-1817-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-009A	428-1818-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-010A	428-1819-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-011A	428-1820-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-012A	428-1821-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-013A	428-1822-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-014A	428-1823-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-015A	428-1824-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-016A	428-1825-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-017A	428-1826-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-018A	428-1827-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-019A	428-1828-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-020A	428-1829-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-021A	428-1830-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-022A	428-1831-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-023A	428-1832-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-024A	428-1833-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-025A	428-1834-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-026A	428-1835-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-027A	428-1836-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-028A	428-1837-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-029A	428-1838-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-030A	428-1839-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-031A	428-1840-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-032A	428-1841-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-033A	428-1842-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-034A	428-1843-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-035A	428-1844-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22800FXC-036A	428-1845-ND	Clock Generator Sync. Prog. 3PLL 3.3V*	8-SOIC	4.03	3.41	2.79
CY22381FC	428-1388-ND	Clock Generator Sync. Flash Programmable 3PLL 3.3V	8-SOIC	5.31	4.25	3.31
CY22381FXC	428-1742-ND	Clock Generator Sync. Flash Programmable 3PLL 3.3V*	8-SOIC	3.80	3.04	2.57
CY22392FXC	428-1743-5-ND	Clock Generator Sync. Flash Programmable 3PLL 3.3V*	16-TSSOP	4.20	3.36	2.84
CY22393FXC	428-1744-5-ND	Clock Generator Sync. Serial/Flash 3PLL 3.3V*	16-TSSOP	5.20	4.16	3.51
W48C111-16H	428-1402-ND	Clock Generator Frequency Mod. SSCG, Celeron, PLL	28-SSOP	7.70	6.16	5.20
W234X	428-1398-ND	Clock Generator Direct Rambus™ 3.3V Dual	28-TSSOP	10.66	9.60	8.52

ATMEL INTERFACE

Digi-Key Part No.	Description	Pkg.	1	25	100
ATA2516-6AQYCT-ND	ASIC IR Receiver, 4.5V ~ 5.5V*	8-TSSOP	2.15	1.72	1.29
ATA2516-6AQYTR-ND	ASIC IR Receiver, 4.5V ~ 5.5V*	8-TSSOP	5805.00/5,000		
ATA6660-TAPY 19CT-ND	High Speed CAN Transceiver*	8-SOIC	1.08	1.00	.87
ATA6660-TAPY 19TR-ND	High Speed CAN Transceiver*	8-SOIC	865.00/1,000		
ATA6830-PKHCT-ND	Intelligent Stepper Motor Driver	28-QFN	4.79	4.02	3.35

** RoHS Compliant*

(Continued)

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ATMEL INTERFACE *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ATA6830-PKHTR-ND	Intelligent Stepper Motor Driver	28-QFN	12936.00/4,000		
B10011S-MFPG1CT-ND	CAN Transceiver	16-SOIC	5.25	4.40	3.66
B10011S-MFPG1Y74CT-ND	CAN Transceiver*	16-SOIC	5.14	4.12	3.47
B10011S-MFPG3Y74CT-ND	CAN Transceiver*	16-SOIC	5.49	4.40	3.42
B10011S-MFPG3Y74TR-ND	CAN Transceiver*	16-SOIC	12688.00/4,000		
T6816-TIQCT-ND	Dual Hex Output Driver with Serial Input Control	28-SOIC	6.30	5.28	4.40
T6817-TKQTR-ND	Dual Triple DMOS Output Driver with Serial Input Control	20-SSOP	8004.00/4,000		
T6818-TUQCT-ND	Triple Half-Bridge DMOS Output Driver with Serial Input Control	14-SOIC	2.92	2.45	2.04
T6818-TUS-ND	Triple Half-Bridge DMOS Output Driver with Serial Input Control	14-SOIC	3.23	2.70	2.25
T6819-TBQCT-ND	Dual Triple DMOS Output Driver with Serial Input Control	16-SOIC	2.97	2.49	2.07
T6819-TBQTR-ND	Dual Triple DMOS Output Driver with Serial Input Control	16-SOIC	8004.00/4,000		
U6815BM-MFL-ND	Dual Hex DMOS Output Driver with Serial Input Control	28-SOIC	6.02	5.04	4.20

ATMEL SERIAL EEPROMs

2-Wire Serial Interface EEPROMs — RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT24C11-10TU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.38	.32	.29
AT24C01B-PU-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.34	.26	.23
AT24C01BN-SH-B-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.26	.25	.23
AT24C01B-TH-B-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.37	.28	.24
AT24C02B-PU-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.34	.32	.29
AT24C02B-TH-B-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.45	.35	.30
AT24C02BN-SH-B-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.34	.32	.29
AT24HC02B-PU-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.64	.48	.36
AT24HC02B-TH-B-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.45	.35	.30
AT24HC02BN-SH-B-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.36	.35	.32
AT24C04-10TU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	1.15	1.11	1.01
AT24C04A-10PU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	1.10	1.08	.98
AT24C04A-10PU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.98	.95	.87
AT24C04A-10TU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	1.21	1.17	1.07
AT24C04A-10TU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	1.08	1.05	.95
AT24C04AN-10SU1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	1.06	1.03	.94
AT24C04AN-10SU2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.94	.92	.83
AT24C04Y6-10YH-1.8CT-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-Map	.57	.55	.50
AT24C08A-10PU-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.48	.46	.42
AT24C08A-10PU-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.44	.41	.38
AT24C08A-10TU-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.59	.50	.45
AT24C08A-10TU-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.57	.45	.41
AT24C08AN-10SU1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.46	.45	.41
AT24C08AN-10SU2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.44	.40	.36
AT24C08AY6-10YH-1.8CT-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-Map	.43	.43	.39
AT24C08AY6-10YH-1.8TR-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-Map	1930.00/5,000		
AT24C16AY6-10YH-1.8CT-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-Map	.69	.67	.61
AT24C16AY6-10YH-1.8TR-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-Map	3050.00/5,000		
AT24C16B-PU-ND	16K (2Kx8) Serial EEPROM, 1.8V to 3.6V	8-Dip	.44	.43	.39
AT24C16B-TH-B-ND	16K (2Kx8) Serial EEPROM, 1.8V to 3.6V	8-TSSOP	.56	.46	.42
AT24C16BN-SH-B-ND	16K (2Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	.43	.41	.38
AT24C16BY6-YH-TCT-ND	16K (2Kx8) Serial EEPROM, 1.8V to 3.6V	8-MAP	.61	.59	.54
AT24C16BY6-YH-TTR-ND	16K (2Kx8) Serial EEPROM, 1.8V to 3.6V	8-MAP	2700.00/5,000		
AT24C32C-PU-ND	32K (4Kx8) Serial EEPROM, 1.8V to 3.6V	8-Dip	.55	.47	.43
AT24C32C-TH-B-ND	32K (4Kx8) Serial EEPROM, 1.8V to 3.6V	8-TSSOP	.67	.51	.44
AT24C32CN-SH-B-ND	32K (4Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	.55	.45	.41
AT24C32CY6-YH-TCT-ND	32K (4Kx8) Serial EEPROM, 1.8V to 3.6V	8-MAP	.67	.65	.59
AT24C32CY6-YH-TTR-ND	32K (4Kx8) Serial EEPROM, 1.8V to 3.6V	8-MAP	2950.00/5,000		
AT24C64A-10PU-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.96	.80	.64
AT24C64AW10SU-2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC▲	.93	.78	.62
AT24C64C-PU-ND	64K (8Kx8) Serial EEPROM, 1.8V to 3.6V	8-Dip	.62	.60	.55
AT24C64C-TH-B-ND	64K (8Kx8) Serial EEPROM, 1.8V to 3.6V	8-TSSOP	.73	.65	.59
AT24C64C-TH-TCT-ND	64K (8Kx8) Serial EEPROM, 1.8V to 3.6V	8-TSSOP	.67	.65	.59
AT24C64C-TH-TTR-ND	64K (8Kx8) Serial EEPROM, 1.8V to 3.6V	8-TSSOP	2950.00/5,000		
AT24C64CN-SH-B-ND	64K (8Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	.60	.58	.53
AT24C64CN-SH-TCT-ND	64K (8Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	.60	.58	.53
AT24C64CN-SH-TTR-ND	64K (8Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	2120.00/4,000		
AT24C128-10PU-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.23	1.03	.82
AT24C128B-PU-ND	128K (16Kx8) Serial EEPROM, 1.8V to 3.6V	8-Dip	.84	.81	.74
AT24C128B-TH-B-ND	128K (16Kx8) Serial EEPROM, 1.8V to 3.6V	8-TSSOP	.97	.87	.79
AT24C128BN-SH-B-ND	128K (16Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	.84	.72	.66
AT24C128BY6-YH-TCT-ND	128K (16Kx8) Serial EEPROM, 1.8V to 3.6V	8-MAP	1.54	1.21	.99
AT24C128BY6-YH-TTR-ND	128K (16Kx8) Serial EEPROM, 1.8V to 3.6V	8-MAP	4200.00/5,000		
AT24C128W-10SU2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	1.29	1.08	.86
AT24C512-10TU-1.8-ND	512K (64Kx8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	2.53	2.02	1.52
AT24C512-10TU-2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	2.50	2.00	1.50
AT24C512B-PU-ND	512K (64Kx8) Serial EEPROM, 1.8V to 3.6V	8-Dip	1.76	1.62	1.47
AT24C512B-PU25-ND	512K (64Kx8) Serial EEPROM, 2.5V to 3.6V	8-Dip	1.74	1.44	1.31
AT24C512B-TH-B-ND	512K (64Kx8) Serial EEPROM, 1.8V to 3.6V	8-TSSOP	1.78	1.73	1.58
AT24C512B-TH25-B-ND	512K (64Kx8) Serial EEPROM, 2.5V to 3.6V	8-TSSOP	1.76	1.56	1.42
AT24C512BN-SH-TCT-ND	512K (64Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	1.76	1.44	1.31
AT24C512BN-SH-TTR-ND	512K (64Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	5240.00/4,000		
AT24C512BN-SH25-TCT-ND	512K (64Kx8) Serial EEPROM, 2.5V to 3.6V	8-SOIC	1.74	1.39	1.26
AT24C512BN-SH25-TTR-ND	512K (64Kx8) Serial EEPROM, 2.5V to 3.6V	8-SOIC	5040.00/4,000		
AT24C512BW-SH-B-ND	512K (64Kx8) Serial EEPROM, 1.8V to 3.6V	8-SOIC	1.81	1.68	1.52
AT24C512BW-SH25-B-ND	512K (64Kx8) Serial EEPROM, 2.5V to 3.6V	8-SOIC	1.78	1.62	1.47
AT24C1024BW-SH25-B-ND	1M (128Kx8) Serial EEPROM, 2.5V to 3.6V	8-SOIC	3.68	3.00	2.73
AT34C02B-10TU-1.7-ND	2K (256x8) Serial EEPROM, 1.7V	8-TSSOP	.43	.42	.38
AT34C02BY6-10YH-1.7CT-ND	2K (256x8) Serial EEPROM, 1.7V	8-Map	.52	.51	.46

SPI Serial Interface EEPROMs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT25010A-10PU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	.45	.43	.39
AT25010A-10PU-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	.43	.39	.35
AT25010A-10TU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	.58	.47	.42
AT25010A-10TU-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V*	8-TSSOP	.56	.42	.38
AT25010AN-10SU1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V*	8-SOIC	.45	.43	.39
AT25010AN-10SU2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.43	.39	.35
AT25020A-10PU-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	.51	.48	.43
AT25020A-10PU-2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	.45	.43	.39
AT25020A-10TU-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	.60	.51	.46
AT25020A-10TU-2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V*	8-TSSOP	.58	.46	.42
AT25020AN-10SU1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V*	8-SOIC	.51	.48	.43
AT25020AN-10SU2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.45	.43	.39
AT25020AY110YU1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V*	8-MAP	.88	.50	.38
AT25040A-10PU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	.60	.56	.51
AT25040A-10PU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	.54	.50	.46
AT25040A-10TU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	.64	.61	.55
AT25040A-10TU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V*	8-TSSOP	.60	.54	.49
AT25040AN-10SU1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V*	8-SOIC	.60	.56	.51
AT25080-10PI-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	2.64	2.23	1.98
AT25080A-10PU-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	.69	.65	.59
AT25080A-10PU-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	.62	.58	.53
AT25080A-10TU-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	.73	.70	.63
AT25080A-10TU-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V*	8-TSSOP	.71	.63	.57
AT25080AN-10SU1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V*	8-SOIC	.69	.65	.59
AT25080AN-10SU2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.62	.58	.53
AT25160A-10PU-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	.79	.74	.67
AT25160A-10PU-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	.70	.66	.60
AT25160A-10TU-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	.84	.79	.71
AT25160A-10TU-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V*	8-TSSOP	.76	.71	.64
AT25160AN-10SU1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V*	8-SOIC	.79	.74	.67
AT25160AN-10SU2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.70	.66	.60
AT25320A-10PU-1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	.92	.87	.78
AT25320A-10PU-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	.82	.78	.70
AT25320A-10TU-1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	.97	.93	.84
AT25320A-10TU-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V*	8-TSSOP	.95	.84	.76
AT25320AN10SU-1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V*	8-SOIC	.92	.87	.78
AT25320AN-10SU2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.82	.78	.70
AT25640A-10PU-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	1.02	.96	.86
AT25640A-10PU-2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	.88	.85	.77
AT25640A-10TU-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	1.09	1.02	.92
AT25640A-10TU-2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V*	8-TSSOP	1.01	.92	.83
AT25640AN-10SU1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V*	8-SOIC	1.02	.96	.86
AT25640AN-10SU2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.88	.85	.77
AT25128A-10PU-1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	1.50	1.41	1.27
AT25128A-10PU-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	1.34	1.26	1.14
AT25128A-10TU-1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	1.61	1.51	1.37
AT25128A-10TU-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V*	8-TSSOP	1.45	1.36	1.23
AT25128AN-10SU1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V*	8-SOIC	1.50	1.41	1.27
AT25128AN10SU-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	1.34	1.26	1.14
AT25256A-10PU-1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V*	8-Dip	2.08	1.95	1.76
AT25256A-10PU-2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	1.86	1.74	1.58
AT25256A-10TU-1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V*	8-TSSOP	2.23	2.09	1.89
AT25256A-10TU-2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V*	8-TSSOP	2.01	1.88	1.70
AT25256AN-10SU1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V*	8-SOIC	2.08	1.95	1.76
AT25256AN-10SU2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	1.86	1.74	1.58
AT25256AW-10SU1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V*	8-SOIC	2.38	2.16	2.02
AT25256AW-10SU2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	1.93	1.76	1.64
AT25F512AN10SU2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	1.08	.77	.75
AT25FS010N-SH27-B-ND	1M (128Kx8) SPI Serial Flash Memory, 2.7V to 3.6V*	8-SOIC	1.16	.90	.81
AT25F2048N10SU2.7-ND	2M (262Kx8) SPI Serial Flash Memory, 2.7V to 3.6V*	8-SOIC	1.53	1.16	1.05
AT25F4096W-10SU-2.7-ND	4M (524Kx8) SPI Serial Flash Memory*	8-SOIC	1.74	1.17	1.06

3-Wire Serial Interface EEPROMs — RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT93C46A-10PU-1.8-ND	1K (64x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.68	.51	.39
AT93C46E-PU-ND	1K (64x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.34	.28	.25
AT93C46E-TH-B-ND	1K (64x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.39	.30	.26
AT93C46EN-SH-B-ND	1K (64x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.34	.27	.24
AT93C46-10SU-2.7-ND	1K (128x8 or 64x16) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.64	.48	.36
AT93C46D-PU-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.34	.26	.23
AT93C46D-TH-B-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.37	.28	.24
AT93C46DN-SH-B-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.32	.25	.22
AT93C46DY6-YH-TCT-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-DFN	.45	.36	.32
AT93C46DY6-YH-TTR-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-DFN	1600.00/5,000		
AT93C46Y6-10YH-1.8CT-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-Map	.40	.38	.35
AT93C56A-10PU-1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.42	.39	.36
AT93C56A-10PU-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V	8-Dip	.40	.35	.32
AT93C56A-10TU-1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.52	.39	.34
AT93C56A-10TU-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.52	.39	.34
AT93C56A-10SU-1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.42	.39	.36
AT93C56AY6-10YH-1.8CT-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-Map	.41	.40	.37
AT93C56AY6-10YH-1.8TR-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-Map	1810.00/5,000		
AT93C66A-10PU-1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.48	.46	.42
AT93C66A-10PU-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V to 5.5V	8-Dip	.43	.41	.38
AT93C66A-10TU-1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.58	.50	.45
AT93C66A-10TU-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.56	.45	.41
AT93C66A-10SU-1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.48	.46	.42
AT93C66A-10SU-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.43	.41	.38
AT93C66AY6-10YH-1.8CT-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V	8-Map	.43	.42	.38
AT93C66AY6-10YH-1.8TR-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V	8-Map	1895.00/5,000		
AT93C86A-10PU-1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.54	.52	.47
AT93C86A-10PU-2.7-ND	16K (2048x8 or 1024x16) Serial EEPROM, 2.7V to 5.5V	8-Dip	.53	.52	.47
AT93C86A-10TU-1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.67	.62	.56
AT93C86A-10TU-2.7-ND	16K (2048x8 or 1024x16) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.65	.56	.51
AT93C86A-10SU-1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.60	.58	.53
AT93C86A-10SU-2.7-ND	16K (2048x8 or 1024x16) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.53	.52	.47

▲ .200" Body Width

ATMEL SECURE MEMORY

Cryptomemory

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT88SC0104C-PU-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	.76	.69	.63
AT88SC0104C-SU-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.67	.61	.55
AT88SC0204C-PU-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	1.04	.94	.86
AT88SC0204C-SU-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.67	.61	.55
AT88SC0404C-PU-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	1.04	.94	.86
AT88SC0404C-SU-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.67	.61	.55
AT88SC0808C-PU-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	1.04	.94	.86
AT88SC0808C-SU-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.67	.61	.55
AT88SC1616C-PU-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	1.04	.94	.86
AT88SC1616C-SU-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	.67	.61	.55
AT88SC3216C-PU-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	1.48	1.34	1.22
AT88SC3216C-SU-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	1.39	1.26	1.15

** RoHS Compliant*

(Continued)

SECURE MEMORY *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT88SC6416C-PU-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	1.48	1.34	1.22
AT88SC6416C-SU-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	1.16	.89	.81
AT88SC12816C-PU-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	1.48	1.34	1.22
AT88SC12816C-SU-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	1.39	1.26	1.15
AT88SC25616C-PU-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V*	8-Dip	1.48	1.34	1.22
AT88SC25616C-SU-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V*	8-SOIC	1.39	1.26	1.15
AT88SC-DK1-ND	Development Kit for AT88SC Family	—	54.23	—	—
AT88SC25616C-DK-ND	Cryptomemory Smartcard Development Kit	—	299.95	—	—
AT88SC25616C-EK-ND	Cryptomemory Evaluation Kit	—	99.95	—	—

EPROMS

Low Power Battery Voltage EPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT27BV256-70JU-ND	256K (32Kx8) CMOS EPROM 2.7V 70nS OTP*	32-PLCC	3.65	3.05	2.60
AT27BV256-70TU-ND	256K (32Kx8) CMOS EPROM 2.7V 70nS OTP*	28-TSOP	4.80	4.00	3.40
AT27BV512-70JU-ND	512K (64Kx8) CMOS EPROM 2.7V 70nS OTP*	32-PLCC	4.50	3.75	3.20
AT27BV512-70TU-ND	512K (64Kx8) CMOS EPROM 2.7V 70nS OTP*	28-TSOP	5.10	4.25	3.65
AT27BV010-90JU-ND	1M (128Kx8) CMOS EPROM 2.7V 90nS OTP*	32-PLCC	5.05	4.20	3.60
AT27BV010-90TU-ND	1M (128Kx8) CMOS EPROM 2.7V 90nS OTP*	32-TSOP	6.04	4.70	4.02
AT27BV1024-90JI-ND	1M (64Kx16) CMOS EPROM 2.7V 90nS OTP	44-PLCC	5.59	4.34	3.72
AT27BV1024-12JI-ND	1M (64Kx16) CMOS EPROM 2.7V 120nS OTP	44-PLCC	5.05	3.93	3.36
AT27BV1024-90VI-ND	1M (64Kx16) CMOS EPROM 2.7V 90nS OTP	40-VSOP	6.67	5.18	4.43
AT27BV020-90JU-ND	2M (256Kx8) CMOS EPROM 2.7V 90nS OTP*	32-PLCC	6.97	5.82	4.98
AT27BV020-90TU-ND	2M (256Kx8) CMOS EPROM 2.7V 90nS OTP*	32-TSOP	8.15	6.32	5.41
AT27BV040-12JI-ND	4M (512Kx8) CMOS EPROM 2.7V 120nS OTP	32-PLCC	8.60	6.68	5.72
AT27BV040-12TI-ND	4M (512Kx8) CMOS EPROM 2.7V 120nS OTP	32-TSOP	9.25	7.18	6.15
AT27BV040-12VI-ND	4M (512Kx8) CMOS EPROM 2.7V 120nS OTP	32-VSOP	9.25	7.18	6.15

Low Power Low Voltage EPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT27LV256A-90JI-ND	256K (32Kx8) CMOS EPROM 3.0V 90nS OTP	32-PLCC	3.12	2.40	2.05
AT27LV256A-70RC-ND	256K (32Kx8) CMOS EPROM 3.0V 70nS OTP	28-SOIC	3.55	2.75	2.35
AT27LV256A-70RI-ND	256K (32Kx8) CMOS EPROM 3.0V 70nS OTP	28-SOIC	3.76	2.95	2.50
AT27LV256A-70TI-ND	256K (32Kx8) CMOS EPROM 3.0V 70nS OTP	28-TSOP	4.09	3.20	2.70
AT27LV256A-90TI-ND	256K (32Kx8) CMOS EPROM 3.0V 90nS OTP	28-TSOP	3.66	2.85	2.45
AT27LV256A-90TU-ND	256K (32Kx8) CMOS EPROM 3.0V 90nS OTP*	28-TSOP	3.20	2.65	2.30
AT27LV512A-90JU-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP*	32-PLCC	3.65	3.05	2.60
AT27LV512A-90TU-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP*	28-TSOP	4.25	3.55	3.05
AT27LV520-90XU-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP*	20-TSSOP	4.58	3.56	3.05
AT27LV010A-70JU-ND	1M (128Kx8) CMOS EPROM 3.0V 70nS OTP*	32-PLCC	5.40	4.55	3.90
AT27LV010A-70TU-ND	1M (128Kx8) CMOS EPROM 3.0V 70nS OTP*	32-TSOP	5.76	4.47	3.83
AT27LV010A-90JI-ND	1M (128Kx8) CMOS EPROM 3.0V 90nS OTP	32-PLCC	4.73	3.70	3.15
AT27LV020A-90TI-ND	2M (256Kx8) CMOS EPROM 3.0V 90nS OTP	32-TSOP	6.77	5.26	4.50
AT27LV020A-90VI-ND	2M (256Kx8) CMOS EPROM 3.0V 90nS OTP	32-VSOP	6.77	5.26	4.50
AT27LV020A-12JU-ND	2M (256Kx8) CMOS EPROM 3.0V 120nS OTP*	32-PLCC	5.94	4.96	4.24
AT27LV020A-12TU-ND	2M (256Kx8) CMOS EPROM 3.0V 120nS OTP*	32-TSOP	7.03	5.46	4.67
AT27LV040A-90JU-ND	4M (512Kx8) CMOS EPROM 3.0V 90nS OTP*	32-PLCC	9.59	7.45	6.38
AT27LV040A-90TU-ND	4M (512Kx8) CMOS EPROM 3.0V 90nS OTP*	32-TSOP	10.23	7.95	6.81
AT27LV040A-12VI-ND	4M (512Kx8) CMOS EPROM 3.0V 120nS OTP	32-VSOP	8.60	6.68	5.72

5V EPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT27C256R-45JU-ND	256K (32Kx8) CMOS EPROM 45nS OTP*	32-PLCC	3.47	2.90	2.48
AT27C256R-45RI-ND	256K (32Kx8) CMOS EPROM 45nS OTP	28-SOIC	3.40	2.64	2.26
AT27C256R-45TC-ND	256K (32Kx8) CMOS EPROM 45nS OTP	28-TSOP	1.29	1.01	.86
AT27C256R-45TU-ND	256K (32Kx8) CMOS EPROM 45nS OTP*	28-TSOP	4.07	3.40	2.91
AT27C256R-70JU-ND	256K (32Kx8) CMOS EPROM 70nS OTP*	32-PLCC	2.90	2.42	2.07
AT27C256R-70PU-ND	256K (32Kx8) CMOS EPROM 70nS OTP*	28-Dip	2.90	2.42	2.07
AT27C256R-70RU-ND	256K (32Kx8) CMOS EPROM 70nS OTP*	28-SOIC	3.00	2.50	2.14
AT27C256R-70TI-ND	256K (32Kx8) CMOS EPROM 70nS OTP	28-TSOP	2.96	2.47	2.12
AT27C512R-45JU-ND	512K (64Kx8) CMOS EPROM 45nS OTP*	32-PLCC	3.70	3.09	2.65
AT27C512R-45PI-ND	512K (64Kx8) CMOS EPROM 45nS OTP	28-Dip	3.16	2.64	2.26
AT27C512R-45RU-ND	512K (64Kx8) CMOS EPROM 45nS OTP*	28-SOIC	3.80	3.18	2.72
AT27C512R-45TU-ND	512K (64Kx8) CMOS EPROM 45nS OTP*	28-TSOP	4.30	3.59	3.08
AT27C512R-70JU-ND	512K (64Kx8) CMOS EPROM 70nS OTP*	32-PLCC	3.13	2.61	2.24
AT27C512R-70PU-ND	512K (64Kx8) CMOS EPROM 70nS OTP*	28-Dip	3.13	2.61	2.24
AT27C512R-70RU-ND	512K (64Kx8) CMOS EPROM 70nS OTP*	28-SOIC	3.23	2.70	2.31
AT27C512R-70TI-ND	512K (64Kx8) CMOS EPROM 70nS OTP	28-TSOP	3.16	2.64	2.26
AT27C516-45JI-ND	512K (32Kx16) CMOS EPROM 45nS OTP	44-PLCC	4.30	3.34	2.86
AT27C516-45VI-ND	512K (32Kx16) CMOS EPROM 45nS OTP	40-VSOP	5.38	4.18	3.58
AT27C010-45JU-ND	1M (128Kx8) CMOS EPROM 45nS OTP*	32-PLCC	4.95	4.13	3.54
AT27C010-45PU-ND	1M (128Kx8) CMOS EPROM 45nS OTP*	32-Dip	4.95	4.13	3.54
AT27C010-45TU-ND	1M (128Kx8) CMOS EPROM 45nS OTP*	32-TSOP	4.95	4.13	3.54
AT27C010-70JU-ND	1M (128Kx8) CMOS EPROM 70nS OTP*	32-PLCC	4.14	3.46	2.96
AT27C010-70PU-ND	1M (128Kx8) CMOS EPROM 70nS OTP*	32-Dip	4.14	3.46	2.96
AT27C010-70TU-ND	1M (128Kx8) CMOS EPROM 70nS OTP*	32-TSOP	4.74	3.96	3.39
AT27C1024-45JU-ND	1M (64Kx16) CMOS EPROM 45nS OTP*	44-PLCC	5.54	4.63	3.96
AT27C1024-45PI-ND	1M (64Kx16) CMOS EPROM 45nS OTP	40-Dip	5.06	4.23	3.62
AT27C1024-45VI-ND	1M (64Kx16) CMOS EPROM 45nS OTP	40-VSOP	6.30	4.89	4.19
AT27C1024-70JU-ND	1M (64Kx16) CMOS EPROM 70nS OTP*	44-PLCC	4.74	3.96	3.39
AT27C1024-70PU-ND	1M (64Kx16) CMOS EPROM 70nS OTP*	40-Dip	4.74	3.96	3.39
AT27C020-55JU-ND	2M (256Kx8) CMOS EPROM 55nS OTP*	32-PLCC	6.05	5.05	4.33
AT27C020-55PU-ND	2M (256Kx8) CMOS EPROM 55nS OTP*	32-Dip	6.05	5.05	4.33
AT27C020-55TI-ND	2M (256Kx8) CMOS EPROM 55nS OTP	32-TSOP	5.80	4.84	4.15
AT27C020-90JU-ND	2M (256Kx8) CMOS EPROM 90nS OTP*	32-PLCC	5.25	4.38	3.75
AT27C020-90PU-ND	2M (256Kx8) CMOS EPROM 90nS OTP*	32-Dip	5.25	4.38	3.75
AT27C020-90TU-ND	2M (256Kx8) CMOS EPROM 90nS OTP*	32-TSOP	5.85	4.88	4.18
AT27C2048-55JI-ND	2M (128Kx16) CMOS EPROM 55nS OTP	44-PLCC	6.00	5.01	4.29
AT27C2048-90JI-ND	2M (128Kx16) CMOS EPROM 90nS OTP	44-PLCC	5.30	4.43	3.79
AT27C2048-55PI-ND	2M (128Kx16) CMOS EPROM 55nS OTP	40-Dip	6.20	5.18	4.43
AT27C2048-90PI-ND	2M (128Kx16) CMOS EPROM 90nS OTP	40-Dip	5.50	4.59	3.93
AT27C2048-55VC-ND	2M (128Kx16) CMOS EPROM 55nS OTP	40-VSOP	7.20	5.59	4.79
AT27C2048-90VI-ND	2M (128Kx16) CMOS EPROM 90nS OTP	40-VSOP	6.77	5.26	4.50
AT27C040-70JU-ND	4M (512Kx8) CMOS EPROM 70nS OTP*	32-PLCC	7.66	6.40	5.48
AT27C040-70PU-ND	4M (512Kx8) CMOS EPROM 70nS OTP*	32-Dip	7.66	6.40	5.48
AT27C040-70TU-ND	4M (512Kx8) CMOS EPROM 70nS OTP*	32-TSOP	8.26	6.90	5.91
AT27C040-90JU-ND	4M (512Kx8) CMOS EPROM 90nS OTP*	32-PLCC	7.09	5.92	5.07
AT27C040-90PU-ND	4M (512Kx8) CMOS EPROM 90nS OTP*	32-Dip	7.09	5.92	5.07
AT27C040-90TU-ND	4M (512Kx8) CMOS EPROM 90nS OTP*	32-TSOP	7.69	6.42	5.50
AT27C4096-55JI-ND	4M (256Kx16) CMOS EPROM 55nS OTP	44-PLCC	7.70	6.43	5.51
AT27C4096-55PI-ND	4M (256Kx16) CMOS EPROM 55nS OTP	40-Dip	7.90	6.60	5.65
AT27C4096-90JU-ND	4M (256Kx16) CMOS EPROM 90nS OTP*	44-PLCC	8.01	6.68	5.72
AT27C4096-90PU-ND	4M (256Kx16) CMOS EPROM 90nS OTP*	40-Dip	8.01	6.68	5.72

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT27C080-90JU-ND	8M (1Mx8) CMOS EPROM 90nS OTP*	32-PLCC	15.03	11.68	10.00
AT27C080-90PI-ND	8M (1Mx8) CMOS EPROM 90nS OTP	32-Dip	13.55	10.52	9.01
AT27C080-90TU-ND	8M (1Mx8) CMOS EPROM 90nS OTP*	32-TSOP	15.67	12.18	10.43

PARALLEL EEPROM

Parallel EEPROM: Battery-Voltage (2.7 to 3.6V)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT28BV16-25JC-ND	16K (2Kx8) 2.7V EEPROM, 250nS	32-PLCC	3.87	2.60	2.35
AT28BV16-25SC-ND	16K (2Kx8) 2.7V EEPROM, 250nS	24-SOIC	4.30	2.85	2.55
AT28BV64B-20JU-ND	64K (8Kx8) 2.7V EEPROM, 200nS*	32-PLCC	9.46	6.40	5.70
AT28BV64B-20PC-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-Dip	21.50	14.50	13.00
AT28BV64B-20PI-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-Dip	9.46	6.40	5.70
AT28BV64B-20SI-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-SOIC	9.68	6.55	5.85
AT28BV64B-20TC-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-TSOP	21.72	14.65	13.15
AT28BV64B-20TU-ND	64K (8Kx8) 2.7V EEPROM, 200nS*	28-TSOP	9.68	6.55	5.85
AT28BV64B-25SU-ND	64K (8Kx8) 2.7V EEPROM, 250nS*	28-SOIC	7.45	6.55	5.85
AT28BV256-20JU-ND	256K (32Kx8) 2.7V EEPROM, 200nS*	32-PLCC	9.25	6.20	5.60
AT28BV256-20PC-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-Dip	25.16	16.95	15.21
AT28BV256-20PI-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-Dip	9.25	6.20	5.60
AT28BV256-20SU-ND	256K (32Kx8) 2.7V EEPROM, 200nS*	28-SOIC	9.46	6.35	5.70
AT28BV256-20TU-ND	256K (32Kx8) 2.7V EEPROM, 200nS*	28-TSOP	9.46	6.35	5.70

Parallel EEPROM: Low-Voltage (3.0 to 3.6V)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT28LV010-20JU-ND	1M (128Kx8) 3.0V EEPROM, 200nS*	32-PLCC	49.24	33.20	29.76
AT28LV010-20PC-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-Dip	89.44	60.30	54.10
AT28LV010-20PI-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-Dip	49.24	33.20	29.76
AT28LV010-20TU-ND	1M (128Kx8) 3.0V EEPROM, 200nS*	32-TSOP	49.45	33.30	29.86

Parallel EEPROM: Standard Voltage (5.0V)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT28C64B-15JU-ND	64K (8Kx8) 5V EEPROM, 150nS*	32-PLCC	4.95	3.35	3.00
AT28C64B-15PU-ND	64K (8Kx8) 5V EEPROM, 150nS*	28-Dip	4.95	3.35	3.00
AT28C64B-15SU-ND	64K (8Kx8) 5V EEPROM, 150nS*	28-SOIC	5.16	3.50	3.15
AT28C64B-15TU-ND	64K (8Kx8) 5V EEPROM, 150nS*	28-TSOP	5.16	3.50	3.15
AT28HC64B-70JI-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	32-PLCC	9.46	6.40	5.70
AT28HC64B-70PI-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-Dip	9.46	6.40	5.70
AT28HC64B-70SC-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-SOIC	21.72	14.65	13.15
AT28HC64B-70SI-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-SOIC	9.68	6.55	5.85
AT28HC64B-70TC-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-TSOP	21.72	14.65	13.15
AT28HC64B-70TI-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-TSOP	9.68	6.55	5.85
AT28HC64B-70PC-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-Dip	21.50	14.50	13.00
AT28HC64B-90JU-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS*	32-PLCC	7.10	4.80	4.30
AT28HC64B-90PU-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS*	28-Dip	7.10	4.80	4.30
AT28HC64B-90SU-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS*	28-SOIC	7.31	4.95	4.40
AT28HC64B-90TU-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS*	28-TSOP	7.31	4.95	4.40
AT28HC64B-12JU-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS*	32-PLCC	5.16	3.50	3.15
AT28HC64B-12SU-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS*	28-SOIC	5.38	3.65	3.30
AT28C256-15JU-ND	256K (32Kx8) 5V EEPROM, 150nS*	32-PLCC	7.42	5.00	4.50
AT28C256-15PU-ND	256K (32Kx8) 5V EEPROM, 150nS*	28-Dip	7.63	5.15	4.65
AT28C256-15SU-ND	256K (32Kx8) 5V EEPROM, 150nS*	28-SOIC	7.63	5.15	4.65
AT28C256-15TU-ND	256K (32Kx8) 5V EEPROM, 150nS*	28-TSOP	7.63	5.15	4.65
AT28C256E-15JU-ND	256K (32Kx8) 5V EEPROM, 150nS*	32-PLCC	8.92	6.00	5.40
AT28C256E-15PU-ND	256K (32Kx8) 5V EEPROM, 150nS*	28-Dip	8.71	5.85	5.25
AT28C256E-15SU-ND	256K (32Kx8) 5V EEPROM, 150nS*	28-SOIC	8.92	6.00	5.40
AT28C256E-15TU-ND	256K (32Kx8) 5V EEPROM, 150nS*	28-TSOP	8.92	6.00	5.40
AT28C256EF-15JU-ND	256K (32Kx8) 5V EEPROM, 150nS*	32-PLCC	21.29	14.40	12.90
AT28C256F-15JU-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS*	32-PLCC	8.92	6.00	5.40
AT28C256F-15SU-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS*	28-SOIC	8.92	6.00	5.40
AT28C256F-15PU-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS*	28-Dip	8.71	5.85	5.25
AT28C256F-15TU-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS*	28-TSOP	8.92	6.00	5.40
AT28HC256-70JI-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	32-PLCC	14.19	9.55	8.60
AT28HC256-70PC-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-Dip	45.15	30.45	27.30
AT28HC256-70PI-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-Dip	14.41	9.70	8.70
AT28HC256-70SI-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-SOIC	14.41	9.70	8.70
AT28HC256-70TC-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-TSOP	45.37	30.60	27.45
AT28HC256-70TI-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-TSOP	14.41	9.70	8.70
AT28HC256-90JU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS*	32-PLCC	10.64	7.20	6.45
AT28HC256-90PU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS*	28-Dip	10.86	7.30	6.55
AT28HC256-90SU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS*	28-SOIC	10.86	7.30	6.55
AT28HC256-12JU-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS*	32-PLCC	7.85	5.25	4.70
AT28HC256-12PU-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS*	28-Dip	8.06	5.40	4.85
AT28HC256-12SU-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS*	28-SOIC	8.06	5.40	4.85
AT28HC256-12TU-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS*	28-TSOP	8.06	5.40	4.85
AT28HC256E-90JU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS*	32-PLCC	12.69	8.50	7.65
AT28HC256E-90PU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS*	28-Dip	12.47	8.35	7.50
AT28HC256E-90SU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS*	28-SOIC	12.69	8.50	7.65
AT28HC256E-90TU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS*	28-TSOP	12.69	8.50	7.65
AT28HC256F-90JU-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS*	32-PLCC	12.69	8.50	7.65
AT28HC256F-90PU-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS*	28-Dip	12.69	8.50	7.65
AT28HC256F-90SU-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS*	28-SOIC	12.69	8.50	7.65
AT28HC256F-90TU-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS*	28-TSOP	12.69	8.50	7.65
AT28HC256F-12JC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	32-PLCC	29.03	19.55	17.51
AT28HC256F-12SI-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	28-SOIC	9.35	6.30	5.65
AT28C010-12JU-ND	1M (128Kx8) 5V EEPROM, 120nS*	32-PLCC	29.24	19.70	17.70
AT28C010-12PI-ND	1M (128Kx8) 5V EEPROM, 120nS	32-Dip	29.24	19.70	17.70
AT28C010-12TI-ND	1M (128Kx8) 5V EEPROM, 120nS	32-TSOP	31.24	19.85	17.80
AT28C010-12TU-ND	1M (128Kx8) 5V EEPROM, 120nS*	32-TSOP	29.46	19.85	17.80
AT28C010-15JU-ND	1M (128Kx8) 5V EEPROM, 150nS*	32-PLCC	27.95	18.85	16.90
AT28C010-15PU-ND	1M (128Kx8) 5V EEPROM, 150nS*	32-Dip	27.95	18.85	16.90
AT28C010-15TU-ND	1M (128Kx8) 5V EEPROM, 150nS*	32-TSOP	28.17	19.00	17.05
AT28C010E-12PI-ND	1M (128Kx8) 5V EEPROM, 120nS	32-Dip	31.93	21.55	19.30
AT28C010E-12TC-ND	1M (128Kx8) 5V EEPROM, 120nS	32-TSOP	58.37	39.35	35.25
AT28C010E-12TI-ND	1M (128Kx8) 5V EEPROM, 120nS	32-TSOP	32.14	21.70	19.45

FLASH MEMORY

Flash Memory: Single-Voltage (1.65V to 1.95V) Read and Write — RoHS Compliant

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT49BV640D-70CU-ND	64M (4Mx16) 3V Flash, 70nS	48-CBGA	6.67	5.18	4.43
AT49BV642D-70TU-ND	64M (4Mx16) 2.7V Flash, 70nS	48-TSOP	6.34	4.93	4.22
AT49BV642DT-70TU-ND	64M (4Mx16) 2.7V Flash, 70nS	48-TSOP	6.19	4.95	4.45

** RoHS Compliant*

(Continued)

FLASH MEMORY *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT49SV322A-80CU-ND	32M (2Mx16/4Mx8) 1.8V Flash, 80nS	48-CBGA	4.05	3.24	2.52

Flash Memory: Battery-Voltage Single-Voltage Read and Write

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT29BV010A-12JU-ND	1M (128Kx8) 2.7V Small Sector Flash, 120nS*	32-PLCC	2.52	2.13	1.86
AT29BV010A-12TI-ND	1M (128Kx8) 2.7V Small Sector Flash, 120nS	32-TSOP	2.52	2.13	1.86
AT29BV010A-12TU-ND	1M (128Kx8) 2.7V Small Sector Flash, 120nS*	32-TSOP	2.52	2.13	1.86
AT29BV010A-15JU-ND	1M (128Kx8) 2.7V Small Sector Flash, 150nS*	32-PLCC	2.52	2.13	1.86
AT29BV010A-15TU-ND	1M (128Kx8) 2.7V Small Sector Flash, 150nS*	32-TSOP	2.52	2.13	1.86
AT29BV020-12JC-ND	2M (256Kx8) 2.7V Small Sector Flash, 120nS	32-PLCC	3.31	2.84	2.47
AT29BV020-12JI-ND	2M (256Kx8) 2.7V Small Sector Flash, 120nS	32-PLCC	3.31	2.84	2.47
AT29BV020-12TU-ND	2M (256Kx8) 2.7V Small Sector Flash, 120nS*	32-TSOP	3.31	2.84	2.47
AT29BV020-15JU-ND	2M (256Kx8) 2.7V Small Sector Flash, 150nS*	32-PLCC	3.31	2.84	2.47
AT29BV020-15TU-ND	2M (256Kx8) 2.7V Small Sector Flash, 150nS*	32-TSOP	3.31	2.84	2.47
AT29BV040A-20JU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 200nS*	32-PLCC	4.62	3.99	3.48
AT29BV040A-20TU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 200nS*	32-TSOP	4.62	3.99	3.48
AT29BV040A-25TC-ND	4M (512Kx8) 2.7V Small Sector Flash, 250nS	32-TSOP	5.22	4.06	3.48
AT29BV040A-25TI-ND	4M (512Kx8) 2.7V Small Sector Flash, 250nS	32-TSOP	4.62	3.99	3.48
AT49BV040B-JU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 70nS*	f-PLCC	1.63	1.39	1.25
AT49BV040B-TU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 70nS*	32-TSOP	1.63	1.39	1.25
AT49BV040B-VU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 70nS*	32-VSOP	1.63	1.39	1.25
AT49BV8192A-11CI-ND	8M (1Mx8 or 512Kx16) 2.7V Large Sector Flash, 110nS	48-CBGA	18.81	14.35	12.70
AT49BV802AT-70CU-ND	8M (1Mx8 or 512Kx16) 2.65V to 3.6V, 70nS*	48-CBGA	2.60	2.03	1.83
AT49BV802D-70CU-ND	8M (1Mx8 or 512Kx16) 2.65V to 3.6V, 70nS*	48-CBGA	2.56	1.91	1.67
AT49BV802D-70TU-ND	8M (1Mx8 or 512Kx16) 2.65V to 3.6V, 70nS*	48-TSOP	2.24	1.67	1.46
AT49BV802DT-70CU-ND	8M (1Mx8 or 512Kx16) 2.65V to 3.6V, 70nS*	48-CBGA	2.56	1.91	1.67
AT49BV802DT-70TU-ND	8M (1Mx8 or 512Kx16) 2.65V to 3.6V, 70nS*	48-TSOP	2.24	1.67	1.46
AT49BV160D-70TU-ND	16M (1Mx16) 3V Flash, 70nS*	48-TSOP	1.89	1.60	1.45
AT49BV160DT-70TU-ND	16M (1Mx16) 3V Flash, 70nS*	48-TSOP	1.89	1.60	1.45
AT49BV163D-70CU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS*	48-CBGA	2.37	1.84	1.57
AT49BV163D-70TU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS*	48-TSOP	1.89	1.60	1.45
AT49BV163DT-70CU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS*	48-CBGA	2.37	1.84	1.57
AT49BV163DT-70TU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS*	48-TSOP	1.89	1.60	1.45
AT49BV320CT-70CU-ND	32M (2Mx16) 3V Flash, 70nS*	47-CBGA	4.05	3.24	2.52
AT49BV320D-70TU-ND	32M (2Mx16) 3V Flash, 70nS*	48-TSOP	2.97	2.40	2.20
AT49BV320DT-70TU-ND	32M (2Mx16) 3V Flash, 70nS*	48-TSOP	2.97	2.40	2.20
AT49BV322DT-70CU-ND	32M (2Mx16/4Mx8) 3V Flash, 70nS*	48-CBGA	3.44	2.67	2.29

Flash Memory: Low-Voltage (3.0 to 3.6V) Single-Voltage Read and Write

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT29LV256-15TC-ND	256K (32Kx8) 3V Small Sector Flash, 150nS	28-TSOP	3.93	2.99	2.62
AT29LV512-12JU-ND	512K (64Kx8) 3V Small Sector Flash, 120nS*	32-PLCC	2.52	1.95	1.67
AT29LV512-12TU-ND	512K (64Kx8) 3V Small Sector Flash, 120nS*	32-TSOP	2.52	1.95	1.67
AT29LV512-15JU-ND	512K (64Kx8) 3V Small Sector Flash, 150nS*	32-PLCC	2.52	1.95	1.67
AT29LV010A-12JC-ND	1M (128Kx8) 3V Small Sector Flash, 120nS	32-PLCC	2.52	2.13	1.86
AT29LV010A-12JI-ND	1M (128Kx8) 3V Small Sector Flash, 120nS	32-PLCC	2.52	2.13	1.86
AT29LV010A-12TU-ND	1M (128Kx8) 3V Small Sector Flash, 120nS*	32-TSOP	2.80	2.17	1.86
AT29LV010A-15JC-ND	1M (128Kx8) 3V Small Sector Flash, 150nS	32-PLCC	2.80	2.17	1.86
AT29LV010A-15JI-ND	1M (128Kx8) 3V Small Sector Flash, 150nS	32-PLCC	2.80	2.17	1.86
AT29LV010A-15TC-ND	1M (128Kx8) 3V Small Sector Flash, 150nS	32-TSOP	2.80	2.17	1.86
AT29LV010A-15TI-ND	1M (128Kx8) 3V Small Sector Flash, 150nS	32-TSOP	2.80	2.17	1.86
AT29LV020-10JU-ND	2M (256Kx8) 3V Small Sector Flash, 100nS*	32-PLCC	3.72	2.89	2.47
AT29LV020-10TU-ND	2M (256Kx8) 3V Small Sector Flash, 100nS*	32-TSOP	3.72	2.89	2.47
AT29LV020-20TC-ND	2M (256Kx8) 3V Small Sector Flash, 200nS	32-TSOP	4.09	3.11	2.73
AT29LV020-20TI-ND	2M (256Kx8) 3V Small Sector Flash, 200nS	32-TSOP	4.09	3.13	2.71
AT29LV040A-15JU-ND	4M (512Kx8) 3V Small Sector Flash, 150nS*	32-PLCC	5.22	4.06	3.48
AT29LV040A-15TU-ND	4M (512Kx8) 3V Small Sector Flash, 150nS*	32-TSOP	5.22	4.06	3.48
AT29LV040A-20TC-ND	4M (512Kx8) 3V Small Sector Flash, 200nS	32-TSOP	5.35	4.10	3.56
AT29LV040A-20TI-ND	4M (512Kx8) 3V Small Sector Flash, 200nS	32-TSOP	5.22	3.99	3.48

Flash Memory: Standard Voltage (4.5 to 5.5V) Single-Voltage Read and Write

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT29C512-70JU-ND	512K (64Kx8) 5V Small Sector Flash, 70nS*	32-PLCC	2.26	1.92	1.67
AT29C512-70TU-ND	512K (64Kx8) 5V Small Sector Flash, 70nS*	32-TSOP	2.26	1.92	1.67
AT29C512-90JU-ND	512K (64Kx8) 5V Small Sector Flash, 90nS*	32-PLCC	2.26	1.92	1.67
AT29C512-90TU-ND	512K (64Kx8) 5V Small Sector Flash, 90nS*	32-TSOP	2.52	1.92	1.67
AT29C010A-70JU-ND	1M (128Kx8) 5V Small Sector Flash, 70nS*	32-PLCC	2.52	2.13	1.86
AT29C010A-70TU-ND	1M (128Kx8) 5V Small Sector Flash, 70nS*	32-TSOP	2.52	2.13	1.86
AT29C010A-90JU-ND	1M (128Kx8) 5V Small Sector Flash, 90nS*	32-PLCC	2.52	2.13	1.86
AT29C010A-90TU-ND	1M (128Kx8) 5V Small Sector Flash, 90nS*	32-TSOP	2.52	2.13	1.86
AT29C020-12JC-ND	2M (256Kx8) 5V Small Sector Flash, 120nS	32-PLCC	3.72	2.89	2.47
AT29C020-12TC-ND	2M (256Kx8) 5V Small Sector Flash, 120nS	32-TSOP	3.31	2.84	2.47
AT29C020-12TI-ND	2M (256Kx8) 5V Small Sector Flash, 120nS	32-TSOP	3.72	2.89	2.47
AT29C020-70JU-ND	2M (256Kx8) 5V Small Sector Flash, 70nS*	32-PLCC	3.31	2.84	2.47
AT29C020-70TU-ND	2M (256Kx8) 5V Small Sector Flash, 70nS*	32-TSOP	3.31	2.84	2.47
AT29C020-90JU-ND	2M (256Kx8) 5V Small Sector Flash, 90nS*	32-PLCC	3.31	2.84	2.47
AT29C020-90TU-ND	2M (256Kx8) 5V Small Sector Flash, 90nS*	32-TSOP	3.31	2.84	2.47
AT29C040A-90JU-ND	4M (512Kx8) 5V Sector Flash PEROM, 90nS*	32-PLCC	4.62	3.99	3.48
AT29C040A-90TU-ND	4M (512Kx8) 5V Sector Flash PEROM, 90nS*	32-TSOP	4.62	3.99	3.48
AT29C040A-12JU-ND	4M (512Kx8) 5V Sector Flash PEROM, 120nS*	32-PLCC	4.62	3.99	3.48
AT29C040A-12TU-ND	4M (512Kx8) 5V Sector Flash PEROM, 120nS*	32-TSOP	4.62	3.99	3.48
AT29C040A-15JI-ND	4M (512Kx8) 5V Sector Flash PEROM, 150nS	32-PLCC	4.62	3.99	3.48
AT49F512-70VI-ND	512K (64Kx8) 5V Flash, 70nS	32-VSOP	4.73	3.65	3.15
AT49F512-90VC-ND	512K (64Kx8) 5V Flash, 90nS	32-VSOP	2.04	1.57	1.37
AT49F512-90VI-ND	512K (64Kx8) 5V Flash, 90nS	32-VSOP	3.98	3.05	2.65
AT49F001-55VC-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-VSOP	5.93	4.65	4.20
AT49F001-55VI-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-VSOP	6.36	4.95	4.48
AT49F001AN-55TU-ND	1M (128Kx8) 5V Flash, 55nS*	32-TSOP	1.50	1.20	.90
AT49F001NT-55TC-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-TSOP	5.85	4.58	4.14
AT49F002ANT-55VU-ND	2M (256Kx8) 5V Flash, 55nS*	32-VSOP	1.68	1.34	1.01
AT49F002T-70VC-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-VSOP	6.28	4.89	4.43
AT49F002T-70VI-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-VSOP	6.62	5.14	4.65
AT49F040A-70TU-ND	4M (512Kx8) 5V Flash, 70nS*	32-TSOP	2.00	1.60	1.20
AT49F040-70VC-ND	4M (512Kx8) 5V Boot Flash, 70nS	32-VSOP	10.23	7.67	7.00
AT49F040-70VI-ND	4M (512Kx8) 5V Boot Flash, 70nS	32-VSOP	11.87	8.80	8.04
AT49F8192AT-70TC-ND	8M (1Mx8 or 512Kx16) 5V Large Sector Flash, Top Boot, 70nS	48-TSOP	18.06	13.80	12.20
AT49F008AT-12TC-ND	8M (1Mx8 or 512Kx16) 5V Large Sector Flash, Top Boot, 120nS	48-TSOP	15.16	11.25	9.85

SERIAL DATAFLASH

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT26DF081A-SU-ND	8M Serial Firmware DataFlash, 2.7V*	8-SOIC	1.61	1.25	1.07
AT26F004-MU-ND	4M Serial Firmware DataFlash, 2.7V*	8-QFN	1.40	1.09	.93
AT26F004-SSU-ND	4M Serial Firmware DataFlash, 2.7V*	8-SOIC	1.08	.84	.72
AT26F004-SU-ND	4M Serial Firmware DataFlash, 2.7V*	8-SOIC	1.08	.84	.72
AT45DB011B-CC-ND	1M Serial DataFlash, 2.7V	9-CBGA	2.15	1.67	1.43
AT45DB011B-CI-ND	1M Serial DataFlash, 2.7V	9-CBGA	2.28	1.76	1.51
AT45DB011B-SU-ND	1M Serial DataFlash, 2.7V*	8-SOIC	1.18	.92	.79
AT45DB021B-SU-ND	2M Serial DataFlash, 2.7V*	8-SOIC	1.75	1.17	1.00
AT45DB021D-MH-Y-ND	2M Serial DataFlash, 2.7V*	8-QFN	1.29	1.00	.86
AT45DB021D-SSH-B-ND	2M Serial DataFlash, 2.7V*	8-SOIC	1.08	.84	.72
AT45DB021D-SH-B-ND	2M Serial DataFlash, 2.7V*	8-SOIC	1.08	.84	.72
AT45DB081D-MU-ND	8M Serial DataFlash, 2.7V*	8-QFN	2.15	1.67	1.43
AT45DB081D-MU-2.5-ND	8M Serial DataFlash, 2.5V*	8-QFN	2.15	1.67	1.43
AT45DB081D-SSU-ND	8M Serial DataFlash, 2.7V*	8-SOIC	1.83	1.42	1.22
AT45DB081D-SSU-2.5-ND	8M Serial DataFlash, 2.5V*	8-SOIC	1.83	1.42	1.22
AT45DB081D-SU-ND	8M Serial DataFlash, 2.7V*	8-SOIC	1.83	1.42	1.22
AT45DB081D-SU-2.5-ND	8M Serial DataFlash, 2.5V*	8-SOIC	1.83	1.42	1.22
AT45DB161D-MU-ND	16M Serial DataFlash, 2.7V*	8-QFN	2.58	2.00	1.72
AT45DB161D-MU-2.5-ND	16M Serial DataFlash, 2.5V*	8-QFN	2.58	2.00	1.72
AT45DB161D-SU-ND	16M Serial DataFlash, 2.7V*	8-SOIC	2.37	1.84	1.57
AT45DB161D-SU-2.5-ND	16M Serial DataFlash, 2.5V*	8-SOIC	2.37	1.84	1.57
AT45DB161D-TU-ND	16M Serial DataFlash, 2.7V*	28-TSOP	2.58	2.00	1.72
AT45DB161D-TU-2.5-ND	16M Serial DataFlash, 2.5V*	28-TSOP	2.58	2.00	1.72
AT45DB642D-CNU-ND	64M Serial DataFlash, Dual, 2.7V*	8-CASON	6.99	5.43	4.65
AT45DB642D-TU-ND	64M Serial DataFlash, Dual, 2.7V*	28-TSOP	7.31	5.68	4.86

ISSI Integrated Silicon Solution, Inc. — SDRAM — *RoHS Compliant*

ISSI Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IS42S16100C1-7TL	706-1016-ND	143MHz, 16Mb (512Kx16) SDRAM	50-TSOPII	4.20	2.31	1.95
IS42S16160B-7BL	706-1017-ND	143MHz, 256Mb (4Mx16) SDRAM	54-FBGA	20.63	11.55	9.90
IS42S16160B-7TL	706-1018-ND	143MHz, 256Mb (4Mx16) SDRAM	54-TSOPII	14.85	8.78	7.79
IS42S16160B-7TLITR	706-1052-1-ND	143MHz, 256Mb (4Mx16) SDRAM	54-TSOPII	12.40	8.99	7.99
IS42S16160B-7TLITR	706-1052-2-ND	143MHz, 256Mb (4Mx16) SDRAM	54-TSOPII	10537.88/1,500		
IS42S16400D-7TL	706-1019-ND	143MHz, 64Mb (1Mx16) SDRAM	54-TSOPII	5.78	3.42	3.03
IS42S16800D-7TL	706-1020-ND	143MHz, 128Mb (2Mx16) SDRAM	54-TSOPII	10.73	6.34	5.63
IS42S32160A-75BL	706-1061-ND	133MHz, 512Mb (4Mx32) SDRAM ***NEW!***	90-BGA	25.00	18.75	17.50
IS42S32160A-75BLI	706-1062-ND	133MHz, 512Mb (4Mx32) SDRAM ***NEW!***	90-BGA	29.25	22.50	21.00
IS42S32400D-7BL	706-1022-ND	143MHz, 128Mb (1Mx32) SDRAM	90-FBGA	16.34	9.66	8.57
IS42S32400D-7TL	706-1023-ND	143MHz, 128Mb (1Mx32) SDRAM	86-TSOPII	13.04	7.71	6.84
IS42S32800B-7BL	706-1024-ND	143MHz, 256Mb (2Mx32) SDRAM	90-BGA	22.50	13.88	12.23
IS42S32800B-7TL	706-1025-ND	143MHz, 256Mb (2Mx32) SDRAM	86-TSOPII	19.50	12.03	10.60
IS42S81600D-7TL	706-1026-ND	143MHz, 128Mb (4Mx8) SDRAM	54-TSOPII	11.85	7.31	6.44
IS42S83200B-7TL	706-1027-ND	143MHz, 256Mb (8Mx8) SDRAM	54-TSOPII	11.25	8.15	7.25

ISSI Integrated Silicon Solution, Inc. — SERIAL EEPROM — *RoHS Compliant*

ISSI Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IS24C02B-2GLI	706-1001-5-ND	2Kb (256x8) 2-Wire Serial EEPROM	8-SOIC	.60	.30	.24
IS24C02B-2ZLI	706-1002-5-ND	2Kb (256x8) 2-Wire Serial EEPROM	8-TSSOP	.65	.32	.26
IS24C04A-2GLI	706-1003-5-ND	4Kb (512x8) 2-Wire Serial EEPROM	8-SOIC	.70	.34	.28
IS24C08A-2GLI	706-1004-5-ND	8Kb (1Kx8) 2-Wire Serial EEPROM	8-SOIC	.75	.36	.30
IS24C16A-2GLI	706-1006-5-ND	16Kb (2Kx8) 2-Wire Serial EEPROM	8-SOIC	.83	.41	.34
IS24C32A-2GLI	706-1007-5-ND	32Kb (4Kx8) 2-Wire Serial EEPROM	8-SOIC	.96	.48	.39
IS24C64A-2GLI	706-1008-5-ND	64Kb (8Kx8) 2-Wire Serial EEPROM	8-SOIC	1.04	.58	.49
IS24C128-3GLI	706-1005-5-ND	128Kb (16Kx8) 2-Wire Serial EEPROM	8-SOIC	1.55	.84	.74
IS25C01-2GLI	706-1009-5-ND	1Kb (128x8) SPI Serial EEPROM	8-SOIC	.62	.32	.26
IS25C02-2GLI	706-1010-5-ND	2Kb (256x8) SPI Serial EEPROM	8-SOIC	.66	.33	.28
IS25C04-2GLI	706-1011-5-ND	4Kb (512x8) SPI Serial EEPROM	8-SOIC	.74	.37	.32
IS25C08-2GLI	706-1012-5-ND	8Kb (1Kx8) SPI Serial EEPROM	8-SOIC	.81	.41	.35
IS25C16-2GLI	706-1013-5-ND	16Kb (2Kx8) SPI Serial EEPROM	8-SOIC	.90	.45	.38
IS25C32A-2GLI	706-1014-5-ND	32Kb (4Kx8) SPI Serial EEPROM	8-SOIC	1.01	.53	.46
IS25C64A-2GLI	706-1015-5-ND	64Kb (8Kx8) SPI Serial EEPROM	8-SOIC	1.48	.80	.70
IS93C46D-2GRLI	706-1050-5-ND	1Kb (128x8), Serial EEPROM	8-SOIC	.29	.21	.19
IS93C66A-2GRLI	706-1051-5-ND	4Kb (512x8), Serial EEPROM	8-SOIC	.35	.26	.23

ISSI Integrated Silicon Solution, Inc. — SRAM — *RoHS Compliant*

ISSI Part No.	Digi-Key Part No.	Descrip tion	Pkg.	Price Each★ 1	25	100
IS61C1024AL-12JLI	706-1028-ND	1Mb (128x8) High Speed Async. SRAM	32-SOJ	3.77	2.34	2.12
IS61C1024AL-12KLI	706-1029-ND	1Mb (128x8) High Speed Async. SRAM	32-SOJ	3.77	2.34	2.12
IS61C256AL-12JLI	706-1030-ND	256Kb (32Kx8) High Speed Async. SRAM	28-SOJ	1.94	1.21	1.10
IS61C256AL-12TLI	706-1031-ND	256Kb (32Kx8) High Speed Async. SRAM	28-TSOP	1.94	1.21	1.10
IS61C5128AS-25TLI	706-1059-ND	4Mb (512Kx8) High Speed Async. SRAM ***NEW!***	32-TSOPII	6.50	4.33	3.88
IS61C5128AS-25QLI	706-1060-5-ND	4Mb (512Kx8) HS Async. SRAM ***NEW!***	32-SOP	6.75	4.68	4.14
IS61C25616AS-25TLI	706-1058-ND	4Mb (32Kx16) High Speed Async. SRAM ***NEW!***	44-TSOPII	5.72	3.81	3.41
IS61LV12816L-10BLI	706-1032-ND	2Mb (128Kx16) High Speed Async. SRAM with 3.3V Supply	48-MBGA	6.78	4.69	4.15
IS61LV12816L-10TL	706-1033-ND	2Mb (128Kx16) High Speed Async. SRAM with 3.3V Supply	44-TSOPII	6.45	4.30	3.85
IS61LV25616AL-10BLI	706-1034-ND	4Mb (256Kx16) High Speed Async. SRAM with 3.3V Supply	48-MBGA	7.76	4.94	4.52
IS61LV25616AL-10TL	706-1035-ND	4Mb (256Kx16) High Speed Async. SRAM with 3.3V Supply	44-TSOPII	6.86	4.57	4.10
IS61LV256AL-10JLI	706-1036-ND	256Kb (32Kx8) Low Volt. Async. SRAM	28-SOJ	1.74	1.16	1.04
IS61LV256AL-10TLI	706-1037-ND	256Kb (32Kx8) Low Volt. Async. SRAM	28-TSOP	1.68	1.16	1.03
IS61LV5128AL-10TLI	706-1038-ND	4Mb (512Kx8) HS Async. SRAM	44-TSOPII	6.88	4.76	4.21
IS61LV6416L-10TL	706-1039-ND	1Mb (64Kx16) High Speed Async. SRAM with 3.3V Supply	44-TSOPII	3.68	2.29	2.08
IS61LV12816L-10TLI-TR	706-1053-1-ND	2Mb (128Kx16) High Speed Async. SRAM with 3.3V Supply	44-TSOPII	6.50	4.55	3.90
IS61LV12816L-10TLI-TR	706-1053-2-ND	2Mb (128Kx16) High Speed Async. SRAM with 3.3V Supply	44-TSOPII	3510.00/1,000		
IS61WV3216BLL-12TLI	706-1057-ND	512Kb (32Kx16) High Speed Async. SRAM ***NEW!***	48-TSOPII	3.45	2.13	1.88

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(Continued)

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ISSI INTEGRATED SILICON SOLUTION, INC.

SRAM *(Continued)* — *RoHS Compliant*

ISSI Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IS61WV6416BLL-12TLI	706-1040-ND	1Mb (64Kx16) HS Async. SRAM	44-TSOPII	3.45	2.13	1.88
IS61WV10248BLL-10TLI	706-1056-ND	8Mb (1Mx8) HS Async. SRAM ***NEW!***	48-TSOPII	17.22	12.71	11.69
IS61WV102416BLL-10MLI	706-1054-ND	16Mb (1Mx16) HS Async. SRAM ***NEW!***	48-MBGA	24.70	18.53	17.29
IS61WV102416BLL-10TLI	706-1055-ND	16Mb (1Mx16) HS Async. SRAM ***NEW!***	48-TSOP	24.00	18.00	16.80
IS62C1024AL-35QLI	706-1041-ND	1Mb (128Kx8) LP Async. SRAM	32-SOP	3.25	2.21	1.95
IS62C1024AL-35TLI	706-1042-ND	1Mb (128Kx8) LP Async. SRAM	32-TSOP	3.12	2.21	1.95
IS62C256AL-45ULI	706-1043-ND	256Kb (32Kx8) LP Async. SRAM	28-SOP	1.61	1.11	1.01
IS62LV256AL-45TLI	706-1044-ND	256Kb (32Kx8) LP Async. SRAM	28-TSOP	1.61	1.11	1.01
IS62WV12816BLL-55TLI	706-1045-ND	2Mb (128Kx16) Ultra LP Async. SRAM	44-TSOPII	3.45	2.45	2.25
IS62WV1288BLL-55HLI	706-1046-ND	1Mb (128Kx8) Ultra LP Async. SRAM	32-STSOP	2.30	1.63	1.50
IS62WV25616BLL-55TLI	706-1047-ND	4Mb (256Kx16) Ultra LP Async. SRAM	44-TSOPII	7.09	5.14	4.57
IS62WV51216BLL-55TLI	706-1048-ND	8Mb (512Kx16) Ultra LP Async. SRAM	44-TSOPII	11.25	8.15	7.25
IS63LV1024L-12JL	706-1049-ND	1Mb (128x8) High Speed Async. SRAM 3.3V Revolutionary Pinout	32-SOJ	3.80	2.36	2.14

SanDisk

DiskOnChip G4 — *RoHS Compliant*

Sandisk Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1
MD8832-D1G-V18-X-P	585-1148-1-ND	MDoc, G4, 1Gb	69-FBGA	12.50
MD8832-D1G-V18-X-P	585-1148-2-ND	MDoc, G4, 1Gb	69-FBGA	13300.00/1,000

SanDisk

iNAND™ — *RoHS Compliant*

Sandisk Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
SDIN2C1-512M	585-1227-ND	iNAND Flash 2.7V-3.6V, 512Mb ***NEW!***	169-FBGA	12.59	11.96
SDIN2C2-1G	585-1228-ND	iNAND Flash 2.7V-3.6V, 1G ***NEW!***	169-FBGA	20.51	19.49
SDIN2C2-2G	585-1229-ND	iNAND Flash 2.7V-3.6V, 2G ***NEW!***	169-FBGA	30.77	29.24
SDINB1-512	585-1214-ND	iNAND Flash 3.3V, 512Mb	56-FBGA	12.59	11.96
SDINB1-2048	585-1213-ND	iNAND Flash 3.3V, 2Gb	56-FBGA	35.21	33.45

SanDisk

DiskOnChip H3 — *RoHS Compliant*

Sandisk Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1
MD2534-D2G-X-P/Y	585-1201-ND	MDoc, H3, 2Gb	115-BGA	12.07
SDED7-256M-N9T	585-1211-1-ND	MDoc, H3, 2Gb	115-FBGA	21.84
SDED7-256M-N9T	585-1211-2-ND	MDoc, H3, 2Gb	115-FBGA	15561.00/1,500

SanDisk

EVALUATION BOARDS AND ADAPTERS

Sandisk Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1
BGA7X10-ZIF-ADPT	585-1002-ND	Adapter for BGA 7x10	—	91.00
BGA9X12-DIP32-ADPT	585-1003-ND	Adapter for BGA 9x12 to 32-Dip	—	58.80
PCI-G-EVB	585-1143-ND	Evaluation Board for Disk On Chip PCI-G	—	184.39

winbond

WinPot™ DIGITAL POTENTIOMETER

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
WMS7130010M-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-MSOP	2.57	2.19	1.88
WMS7130010P-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-Dip	2.57	2.19	1.88
WMS7130010S-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-SOIC	2.57	2.19	1.88
WMS7130050M-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 50KΩ	8-MSOP	2.57	2.19	1.88
WMS7130050P-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 50KΩ	8-Dip	2.57	2.19	1.88
WMS7130050S-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 50KΩ	8-SOIC	2.57	2.19	1.88
WMS7130100P-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 100KΩ	8-Dip	2.57	2.19	1.88
WMS7130100S-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 100KΩ	8-SOIC	2.57	2.19	1.88
WMS7131010M-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-MSOP	2.57	2.19	1.88
WMS7131010P-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-Dip	2.57	2.19	1.88
WMS7131010S-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-SOIC	2.57	2.19	1.88
WMS7131050S-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 50KΩ	8-SOIC	2.57	2.19	1.88
WMS7131100M-ND	Digital Pot, with Up/Down Interface, 32 Tap, 100KΩ	8-MSOP	2.57	2.19	1.88
WMS7170010M-ND	Digital Pot, with Up/Down Interface, 100 Tap, 10KΩ	8-MSOP	2.57	2.19	1.88
WMS7170010P-ND	Digital Pot, with Up/Down Interface, 100 Tap, 10KΩ	8-Dip	2.57	2.19	1.88
WMS7170050P-ND	Digital Pot, with Up/Down Interface, 100 Tap, 50KΩ	8-Dip	2.57	2.19	1.10
WMS7170050S-ND	Digital Pot, with Up/Down Interface, 100 Tap, 50KΩ	8-SOIC	2.57	2.19	1.88
WMS7170100P-ND	Digital Pot, with Up/Down Interface, 100 Tap, 100KΩ	8-Dip	2.57	2.19	1.88
WMS7170100S-ND	Digital Pot, with Up/Down Interface, 100 Tap, 100KΩ	8-SOIC	2.57	2.19	1.88
WMS7171010M-ND	Digital Pot, with Up/Down Interface, 100 Tap, 10KΩ	8-MSOP	2.57	2.19	1.88
WMS7171010P-ND	Digital Pot, with Up/Down Interface, 100 Tap, 10KΩ	8-Dip	2.57	2.19	1.88
WMS7171050P-ND	Digital Pot, with Up/Down Interface, 100 Tap, 50KΩ	8-Dip	2.57	2.19	1.88
WMS7171050S-ND	Digital Pot, with Up/Down Interface, 100 Tap, 50KΩ	8-SOIC	2.57	2.19	1.88
WMS7171100M-ND	Digital Pot, with Up/Down Interface, 100 Tap, 100KΩ	8-MSOP	2.57	2.19	1.88
WMS7171100S-ND	Digital Pot, with Up/Down Interface, 100 Tap, 100KΩ	8-SOIC	2.57	2.19	1.88
WMS7201050P-ND	Digital Potentiometer, 1-Channel, 256 Tap, 50KΩ	8-Dip	4.03	3.42	2.93
WMS7202010P-ND	Digital Potentiometer, 2-Channel, 256 Tap, 10KΩ	14-Dip	5.84	4.96	4.25
WMS7202050P-ND	Digital Potentiometer, 2-Channel, 256 Tap, 50KΩ	14-Dip	5.84	4.96	4.25
WMS7202100P-ND	Digital Potentiometer, 2-Channel, 256 Tap, 100KΩ	14-Dip	5.84	4.96	4.25
WMS7204050P-ND	Digital Potentiometer, 4-Channel, 256 Tap, 50KΩ	20-Dip	9.14	7.76	6.65

winbond

I/O CONTROLLERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
87360F2-R-ND	LPC SuperI/O, Protection and GPIO Support	128-PQFP	4.95	3.77	2.88
87363F2-D-ND	LPC SuperI/O, with MIDI and Game Ports, Extended Wake-Up and Protection	128-PQFP	4.85	3.69	2.82
97338F1/C1-ND	ACPI 1.0 and PC98/99 Super I/O	100-PQFP	7.18	5.68	4.55

winbond

MEMORY — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
	Flash Memory				
W19B320ABT7H-ND	32M-Bit, Bottom Sector, 70nS	48-TSOP	3.92	2.56	2.24
W19B320ATT7H-ND	32M-Bit, Top Sector, 70nS	48-TSOP	3.92	2.56	2.24
	Serial Flash				
W25P10VSNIG-ND	1M-Bit, 3.3V, spiFlash	8-SOIC	1.37	.90	.79
W25P20VSNIG-ND	2M-Bit, 3.3V, spiFlash	8-SOIC	1.35	.88	.77
W25P40VSNIG-ND	4M-Bit, 3.3V, spiFlash	8-SOIC	1.69	1.11	.97
W25X10VSNIG-ND	1M-Bit, 3.3V, spiFlash with 4Kb Sectors, Dual Output	8-SOIC	1.18	.77	.68
W25X10VZPIG-ND	1M-Bit, 3.3V, spiFlash with 4Kb Sectors, Dual Output	8-WSON	1.35	.88	.77
W25X20VSNIG-ND	2M-Bit, 3.3V, spiFlash with 4Kb Sectors, Dual Output	8-SOIC	1.35	.88	.77
W25X40VSNIG-ND	4M-Bit, 3.3V, spiFlash with 4Kb Sectors, Dual Output	8-SOIC	1.67	1.09	.96
W25X40VSSIG-ND	4M-Bit, 3.3V, spiFlash with 4Kb Sectors, Dual Output	8-SOIC	1.67	1.09	.96
W25X40VZPIG-ND	4M-BIt, 3.3V, spiFlash with 4Kb Sectors, Dual Output	8-WSON	1.81	1.19	1.04
W25X80VDAIZ-ND	8M-Bit, 3.3V, spiFlash with 4Kb Sectors, Dual Output	8-Dip	2.11	1.38	1.21
W25X80VSSIG-ND	8M-Bit, 3.3V, spiFlash with 4Kb Sectors, Dual Output	8-SOIC	2.03	1.33	1.17
W25X80VZPIG-ND	8M-Bit, 3.3V, spiFlash with 4Kb Sectors, Dual Output	8-WSON	2.23	1.46	1.28

Melexis Microelectronic Integrated Systems

SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MLX10803KDC-ND	High Power LED Driver*	8-SOIC	2.85	1.98	1.38
MLX90217LUA-ND	Hall Effect Geartooth Speed Sensor	UA/TO-92 (flat)	7.96	4.72	2.79
MLX90247-ESF-DSA-ND	Thermopile with On-Chip PTC Thermistor	TO-39	17.73	10.50	6.21
MLX90248ESECT-ND	CMOS Omnipolar™ High Sensitivity Micropower Hall Switch*	TSOT-23	1.60	.95	.57
MLX90248ESETR-ND	CMOS Omnipolar™ High Sensitivity Micropower Hall Switch*	TSOT-23	1296.00/3,000		
MLX90308LDF-DA-ND	Programmable Sensor Interface	16-SOIC	32.24	19.05	11.29
DK90308-ND	Demo Kit for MLX90308 Sensor Interface with SOIC Socket, Serial Interface Datasheet and Programming Manual (diskette), Software, and (5) 90308 Samples	—	159.50	—	—
MLX90314LDF-ND	High Gain Programmable Sensor Interface	16-SOIC	32.19	19.05	11.28
DK90314-ND	Demo Kit for MLX90314 Sensor Interface with SOIC Socket, Serial Interface Datasheet and Programming Manual (diskette), Software and (5) 90314 Samples	—	136.99	—	—
MLX90316EDCCT-ND	Triaxis Rotary Position Sensor*	8-SOIC	12.94	7.66	4.54
MLX90316EDCTR-ND	Triaxis Rotary Position Sensor*	8-SOIC	9061.00/2,600		
MLX90316KDCCT-ND	Rotary Position Sensor*	8-SOIC	13.30	7.88	4.66
MLX90316KDCTR-ND	Rotary Position Sensor*	8-SOIC	9315.80/2,600		
EVB90316-DC-ND	Evaluation Board for MLX90316-DC	—	29.00	—	—
MLX90316EGOCT-ND	Triaxis Rotary Position Sensor*	16-TSSOP	24.67	14.60	8.64
MLX90316EGOTR-ND	Triaxis Rotary Position Sensor*	16-TSSOP	26580.00/4,000		
EVB90316-GO-ND	Evaluation Board for MLX90316-GO	—	29.00	—	—
PTC-04-90316-ND	Programmer for Hall Effect 90316 ***NEW!***	—	1695.87	—	—
MLX90333KDC-ND	3D-Joystick Position Sensor ***NEW!***	8-SOIC	14.51	8.59	5.09
MLX90614ESF-AAA-ND	5V, Single Zone Infrared Thermometer*	TO-39	24.57	14.54	8.61
MLX90614ESF-BAA-ND	3V, Single Zone Infrared Thermometer*	TO-39	24.57	14.54	8.61
MLX90614ESF-DAA-ND	3V, Medical Accuracy, Single Zone Infrared Thermometer*	TO-39	28.08	16.62	9.84
EVB90614-ND	Evaluation Board for MLX90614 Infrared Thermometer Module, USB Cable, Software, and (4) 96014 Samples*	—	218.00	—	—

SHARP MICROELECTRONICS OF THE AMERICAS

MEMORY — *RoHS Compliant*

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
F640SPHTPTLZ8	425-1878-ND	64M Symmetrical Block Flash, 3.3V, 120nS	56-TSOP	8.66	7.68	6.93
F800BJHEPBTLT9	425-1879-ND	8M Bottom Boot Block Flash, 3.3V, 90nS	48-TSOP	5.81	5.15	4.65
F800BJHEPTTLT6	425-1880-ND	8M Top Boot Block Flash, 3.3V, 90nS	48-TSOP	5.81	5.15	4.65
LHF00L28	425-1885-ND	16M Top Boot Block Flash, 3V, 70nS	48-TSOP	3.00	2.63	2.25
LHF00L29	425-1886-ND	16M Bottom Boot Block Flash, 3V, 70nS	48-TSOP	3.00	2.63	2.25
LHF00L30	425-1887-ND	16M Top Boot Block Flash, 3V, 70nS	48-TSOP	3.90	3.42	2.93
LHF00L31	425-1888-ND	16M Bottom Boot Block Flash, 3V, 70nS	48-TSOP	3.90	3.42	2.93
LH28F160BJHE-TTL90	425-1824-ND	16M Top Boot Block Flash, 3.3V, 90nS	48-TSOP	17.81	15.79	14.25
LHF00L12	425-1881-ND	32M Top Boot Block Flash, 3V, 70nS	48-TSOP	6.27	5.55	5.02
LHF00L13	425-1882-ND	32M Bottom Boot Block Flash, 3V, 70nS	48-TSOP	6.27	5.55	5.02
LHF00L14	425-1883-ND	32M Top Boot Block Flash, 3V, 70nS	48-TSOP	6.27	5.55	5.02
LHF00L15	425-1884-ND	32M Bottom Boot Block Flash, 3V, 70nS	48-TSOP	6.27	5.55	5.02
F640BFHEPBTL70A	425-1874-ND	64M Bottom Boot Block Flash, 3.3V, 70nS	48-TSOP	12.16	10.78	9.73
F640BFHEPTTLHFA	425-1876-ND	64M Top Boot Block Flash, 3.3V, 70nS	48-TSOP	10.50	9.30	8.40
F640BFHEPTTL70A	425-1877-ND	64M Top Boot Block Flash, 3.3V, 70nS	48-TSOP	10.50	9.30	8.40
F128BFHTPBTL75A	425-1869-ND	128M Bottom Boot Block Flash, 3.3V, 75nS	56-TSOP	21.88	17.25	16.63
F128BFHTPTTL75A	425-1870-ND	128M Top Boot Block Flash, 3.3V, 75nS	56-TSOP	21.88	17.25	16.63

SHARP MICROELECTRONICS OF THE AMERICAS

SMALL TFT DISPLAY GSIC/ASIC *RoHS Compliant*

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
IR3E3126	425-2492-1-ND	Generates Gamma Correction Reference Voltage for TFT LCD Color Monitors	20-QFN	7.77	5.83	4.54
IR3E3126	425-2492-2-ND	Generates Gamma Correction Reference Voltage for TFT LCD Color Monitors	20-QFN	9065.00/2,500		
IR3E3146	425-2493-1-ND	Generates Gamma Correction Reference Voltage for TFT LCD Color Monitors	20-QFN	7.77	5.83	4.54
LZ9FC23	425-2496-ND	Timing Control IC for TFT-LCD Module	72-QFP	6.48	4.79	4.04
LZ9FD534	425-2495-1-ND	Timing Control IC for TFT-LCD Module	28-QFN	5.76	5.04	4.04
LZ9FD534	425-2495-2-ND	Timing Control IC for TFT-LCD Module	28-QFN	9115.00/2,500		

* *RoHS Compliant*

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Panasonic® Voltage Detectors

Highly Reliable, Easy-to-Use CMOS LSI is for Voltage Detection

The MN1380 Series is a series of devices with functions for:

- Monitoring the power supply voltage supplied to microcomputers and to LSI systems
- Generating the RESET signal for carrying out initialization when the power supply is turned ON
- Preventing runaway in systems when the power supply voltage fluctuates. Recently, there has been an increase in the number of battery-driven products such as cordless telephones, notebook-type personal computers, etc. In these products, highly accurate monitoring of the power supply voltage is an important point in terms of system operation and data backup. While maintaining the voltage detection precision of similar voltage detection devices so far, the MN1380 Series of devices consumes 1/10 the current. In addition, users can choose from one of three output formats: CMOS output, N-channel open drain and inverted CMOS output.

TO-92

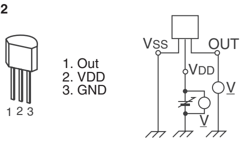

Mini-Type – TO-236/SC-59A

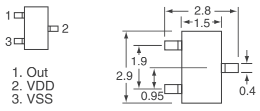

Item	Symbol	Rating	Unit
Drain Supply Voltage	VDD	7.0	V
Output Voltage	VO	-0.3 ~ VDD + 0.3	V
Operating Ambient Temperature	Ta	-20 ~ 70	°C
Storage Temperature	Tstg	-55 ~ 125	°C
Detection Voltage Hysteresis Max	ΔVD	300	mV

Output Type	Detection Voltage at Drain Supply (Trigger V) Min.	Max.	Reset Time (μs) tOH	tOL	Digi-Key Part No.	*RoHS Compliant* Digi-Key Part No.	Pricing 1	10	100
TO-92									
CMOS	2.0	2.2	3.0	250	—	MN1381SC-ND	1.02	8.48	67.87
	2.6	2.9	3.0	115	—	MN1381SJ-ND	1.02	8.48	67.87
	3.8	4.1	2.0	15	—	MN1381SQ-ND	1.02	8.48	67.87
N-Channel Open Drain	3.0	3.3	4.0	35	—	MN13811SL-ND	1.02	8.48	67.87
CMOS Inverted	2.0	2.2	230	3.0	MN13812-C-ND	—	1.02	8.48	67.87
	2.2	2.4	230	3.0	MN13812-E-ND	—	1.02	8.48	67.87
	2.4	2.6	100	3.0	MN13812-G-ND	—	1.02	8.48	67.87
	3.8	4.1	30	3.0	MN13812-Q-ND	—	1.02	8.48	67.87

Output Type	Detection Voltage at Drain Supply (Trigger V) Min.	Max.	Reset Time (μs) tOH	tOL	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Box Pricing 3,000
TO-92 – RoHS Compliant										
CMOS	2.0	2.2	3.0	250.0	MN1381SCUCT-ND	.91	18.94	60.60	MN1381SCUTB-ND	394.00/M
	2.2	2.4	3.0	250.0	MN1381SEUCT-ND	.91	18.94	60.60	MN1381SEUTB-ND	394.00/M
	2.6	2.9	3.0	115.0	MN1381SJUCT-ND	.91	18.94	60.60	MN1381SJUTB-ND	394.00/M
	3.0	3.3	2.0	15.0	MN1381SLUCT-ND	.91	18.94	60.60	MN1381SLUTB-ND	394.00/M
	3.8	4.1	2.0	15.0	MN1381SQUCT-ND	.91	18.94	60.60	MN1381SQUTB-ND	394.00/M
	4.2	4.5	2.0	15.0	MN1381SSUCT-ND	.91	18.94	60.60	MN1381SSUTB-ND	394.00/M
	4.6	4.9	4.0	15.0	MN1381SUUCT-ND	.91	18.94	60.60	MN1381SUUTB-ND	394.00/M
N-Channel Open Drain	2.2	2.4	2.5	160.0	MN13811SEUCT-ND	.91	18.94	60.60	MN13811SEUTB-ND	394.00/M
	3.0	3.3	2.0	15.0	MN13811SLUCT-ND	.91	18.94	60.60	MN13811SLUTB-ND	394.00/M
	3.8	4.1	4.0	35.0	MN13811SQUCT-ND	.91	18.94	60.60	MN13811SQUTB-ND	394.00/M
	4.2	4.5	4.0	35.0	MN13811SSUCT-ND	.91	18.94	60.60	MN13811SSUTB-ND	394.00/M
CMOS Inverted	2.4	2.6	100.0	3.0	MN13812SGUCT-ND	.91	18.94	60.60	MN13812SGUTB-ND	394.00/M
	2.6	2.9	100.0	3.0	MN13812SJUCT-ND	.91	18.94	60.60	MN13812SJUTB-ND	394.00/M

Output Type	Detection Voltage at Drain Supply (Trigger V) Min.	Max.	Reset Time (μs) tOH	tOL	Digi-Key Part No.	*RoHS Compliant* Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	*RoHS Compliant* Digi-Key Part No.	Tape and Reel Pricing 3,000
MINI-TYPE												
CMOS	2.0	2.2	3.0	250.0	—	MN1382SCPCT-ND	1.02	8.48	67.87	—	MN1382SCPTR-ND	441.00/M
	2.1	2.3	3.0	250.0	—	MN1382SDPCT-ND	1.02	8.48	67.87	—	MN1382SDPTR-ND	441.00/M
	2.2	2.4	3.0	250.0	—	MN1382SEPCT-ND	1.02	8.48	67.87	—	MN1382SEPTR-ND	441.00/M
	2.3	2.5	3.0	250.0	—	MN1382SFPCT-ND	1.02	8.48	67.87	—	MN1382SFPTR-ND	441.00/M
	2.4	2.6	3.0	115.0	—	MN1382SGPCT-ND	1.02	8.48	67.87	—	MN1382SGPTR-ND	441.00/M
	2.5	2.7	3.0	115.0	—	MN1382SHPCT-ND	1.02	8.48	67.87	—	MN1382SHPTR-ND	441.00/M
	2.6	2.9	3.0	115.0	—	MN1382SJPCT-ND	1.02	8.48	67.87	—	MN1382SJPTR-ND	441.00/M
	2.8	3.1	3.0	115.0	—	MN1382SKPCT-ND	1.02	8.48	67.87	—	MN1382SKPTR-ND	441.00/M
	3.0	3.3	2.0	15.0	—	MN1382SLPCT-ND	1.02	8.48	67.87	—	MN1382SLPTR-ND	441.00/M
	3.2	3.5	2.0	15.0	MN1382MPCT-ND	MN1382SMPCT-ND	1.02	8.48	67.87	MN1382MPTR-ND	MN1382SMPTR-ND	441.00/M
	3.4	3.7	2.0	15.0	MN1382NPCT-ND	MN1382SNPCT-ND	1.02	8.48	67.87	MN1382NPTR-ND	MN1382SNPTR-ND	441.00/M
	3.8	4.1	2.0	15.0	—	MN1382SQPCT-ND	1.02	8.48	67.87	—	MN1382SQPTR-ND	441.00/M
	4.0	4.3	2.0	15.0	—	MN1382SRPCT-ND	1.02	8.48	67.87	—	MN1382SRPTR-ND	441.00/M
	4.2	4.5	2.0	15.0	—	MN1382SSPCT-ND	1.02	8.48	67.87	—	MN1382SSPTR-ND	441.00/M
	4.4	4.7	2.0	15.0	MN1382TPCT-ND	MN1382STPCT-ND	1.02	8.48	67.87	—	MN1382STPTR-ND	441.00/M
	4.6	4.9	—	—	—	MN1382SUPCT-ND	1.02	8.48	67.87	—	MN1382SUPTR-ND	441.00/M
N-Channel Open Drain	2.0	2.2	2.5	160.0	MN13821CPCT-ND	MN13821SCPCT-ND	1.02	8.48	67.87	MN13821CPTR-ND	MN13821SCPTR-ND	441.00/M
	2.1	2.3	2.5	160.0	—	MN13821SDPCT-ND	1.02	8.48	67.87	—	MN13821SDPTR-ND	441.00/M
	2.2	2.4	2.5	160.0	—	MN13821SEPCT-ND	1.02	8.48	67.87	—	MN13821SEPTR-ND	441.00/M
	2.3	2.5	2.5	160.0	—	MN13821SFPCT-ND	1.02	8.48	67.87	—	MN13821SFPTR-ND	441.00/M
	2.4	2.6	3.0	100.0	—	MN13821SGPCT-ND	1.02	8.48	67.87	—	MN13821SGPTR-ND	441.00/M
	2.5	2.7	3.0	100.0	—	MN13821SHPCT-ND	1.02	8.48	67.87	—	MN13821SHPTR-ND	441.00/M
	2.6	2.9	3.0	100.0	—	MN13821SJPCT-ND	1.02	8.48	67.87	—	MN13821SJPTR-ND	441.00/M
	2.8	3.1	3.0	100.0	—	MN13821SKPCT-ND	1.02	8.48	67.87	—	MN13821SKPTR-ND	441.00/M
	3.0	3.3	4.0	35.0	MN13821LPCT-ND	MN13821SLPCT-ND	1.02	8.48	67.87	MN13821LPTR-ND	MN13821SLPTR-ND	441.00/M
	3.2	3.5	4.0	35.0	—	MN13821SMPCT-ND	1.02	8.48	67.87	—	MN13821SMPTR-ND	441.00/M
	3.4	3.7	4.0	35.0	MN13821NPCT-ND	MN13821SNPCT-ND	1.02	8.48	67.87	MN13821NPTR-ND	MN13821SNPTR-ND	441.00/M
	3.6	3.9	4.0	35.0	MN13821PPCT-ND	MN13821SPPCT-ND	1.02	8.48	67.87	—	MN13821SPPTR-ND	441.00/M
	3.8	4.1	4.0	35.0	—	MN13821SQPCT-ND	1.02	8.48	67.87	—	MN13821SQPTR-ND	441.00/M
	4.0	4.3	4.0	35.0	—	MN13821SRPCT-ND	1.02	8.48	67.87	—	MN13821SRPTR-ND	441.00/M
	4.2	4.5	4.0	35.0	—	MN13821SSPCT-ND	1.02	8.48	67.87	—	MN13821SSPTR-ND	441.00/M
	4.4	4.7	4.0	35.0	—	MN13821STPCT-ND	1.02	8.48	67.87	—	MN13821STPTR-ND	441.00/M
	4.6	4.9	—	—	MN13821UPCT-ND	MN13821SUPCT-ND	1.02	8.48	67.87	—	MN13821SUPTR-ND	441.00/M
CMOS Inverted	2.1	2.3	230.0	3.0	MN13822DPCT-ND	MN13822SDPCT-ND	1.02	8.48	67.87	MN13822DPTR-ND	MN13822SDPTR-ND	441.00/M
	2.2	2.4	230.0	3.0	MN13822EPCT-ND	MN13822SEPCT-ND	1.02	8.48	67.87	—	MN13822SEPTR-ND	441.00/M
	2.3	2.5	230.0	3.0	MN13822FPCT-ND	MN13822SFPCT-ND	1.02	8.48	67.87	MN13822FPTR-ND	MN13822SFPTR-ND	441.00/M
	2.4	2.6	100.0	3.0	MN13822GPCT-ND	MN13822SGPCT-ND	1.02	8.48	67.87	MN13822GPTR-ND	MN13822SGPTR-ND	441.00/M
	2.5	2.7	100.0	3.0	MN13822HPCT-ND	MN13822SHPCT-ND	1.02	8.48	67.87	MN13822HPTR-ND	MN13822SHPTR-ND	441.00/M
	2.6	2.9	100.0	3.0	MN13822JPCT-ND	MN13822SJPCT-ND	1.02	8.48	67.87	MN13822JPTR-ND	MN13822SJPTR-ND	441.00/M
	2.8	3.1	100.0	3.0	MN13822KPCT-ND	MN13822SKPCT-ND	1.02	8.48	67.87	—	MN13822SKPTR-ND	441.00/M
	3.0	3.3	30.0	3.0	MN13822LPCT-ND	MN13822SLPCT-ND	1.02	8.48	67.87	—	MN13822SLPTR-ND	441.00/M
	3.2	3.5	30.0	3.0	MN13822MPCT-ND	MN13822SMPCT-ND	1.02	8.48	67.87	MN13822MPTR-ND	MN13822SMPTR-ND	441.00/M
	3.4	3.7	30.0	3.0	MN13822NPCT-ND	MN13822SNPCT-ND	1.02	8.48	67.87	MN13822NPTR-ND	MN13822SNPTR-ND	441.00/M
	3.6	3.9	30.0	3.0	MN13822PPCT-ND	MN13822SPPCT-ND	1.02	8.48	67.87	MN13822PPTR-ND	MN13822SPPTR-ND	441.00/M
	3.8	4.1	30.0	3.0	MN13822QPCT-ND	MN13822SQPCT-ND	1.02	8.48	67.87	MN13822QPTR-ND	MN13822SQPTR-ND	441.00/M
	4.0	4.3	30.0	3.0	MN13822RPCT-ND	MN13822SRPCT-ND	1.02	8.48	67.87	MN13822RPTR-ND	MN13822SRPTR-ND	441.00/M
	4.2	4.5	30.0	3.0	MN13822SPCT-ND	MN13822SSPCT-ND	1.02	8.48	67.87	—	MN13822SSPTR-ND	441.00/M
	4.4	4.7	30.0	3.0	MN13822TPCT-ND	MN13822STPCT-ND	1.02	8.48	67.87	MN13822TPTR-ND	MN13822STPTR-ND	441.00/M
	4.6	4.9	—	—	MN13822UPCT-ND	MN13822SUPCT-ND	1.02	8.48	67.87	—	MN13822SUPTR-ND	441.00/M

TOKO Dielectric Filters

Type 4DFA Dim in mm

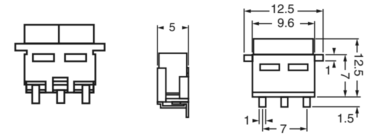

Type 4DFB

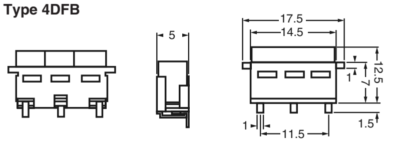

Applications: • Cellular - AMPS/TDMA/CDMA • RF Data • Cordless Phone • ISM • Pager • SMR • GPS • Ardis
Temperature Range: -25°C ~ 85°C

Center Freq. MHz	Bandwidth (fo ± MHz)	I.L (dB max.)	Selectivity dB min. @ MHz	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	1,000	Toko Part No.
Type 4DFA (2 Pole SMD Type)											
902.5	±12.5	2.5	18 (ƒo ± 77.5)	TKS2602CT-ND	24.06	161.60	971.00	TKS2602TR-ND	2780.00	3510.00	4DFA-902E-10
947.5	±12.5	2.5	18 (ƒo ± 77.5)	TKS2603CT-ND	24.06	161.60	971.00	TKS2603TR-ND	2780.00	3510.00	4DFA-947E-10
904.0	±1.0	3.8	21,30 (ƒo +21.5, +44)	TKS2604CT-ND	24.06	161.60	971.00	TKS2604TR-ND	2780.00	3510.00	4DFA-904A-10
926.5	±1.0	3.8	21,30 (ƒo -21.5, -44)	TKS2605CT-ND	12.48	98.80	722.80	—	—	—	4DFA-926A-11
Type 4DFB (3 Pole SMD Type)											
860.5	±10.0	2.5	15,35(ƒo ±35,80)	TKS2612CT-ND	36.16	242.80	1459.00	TKS2612TR-ND	4180.00	5280.00	4DFB-860D-10

Low Dropout Voltage Regulators

RoHS COMPLIANT

Series TK112xxC/TK113xxCM

Specifications:

TK112xxC • Peak output current is 480mA (10% down point) • Built-in on/off control (0.1μA max. standby current) High On • Supply Voltage: -0.4V ~ 16V • Operating Temperature: -30°C ~ 80°C • Line Regulation: 6mV • Maximum Output Current: 480mA • Quiescent Current: 65μA

TK113xxC • Active Low (Reference: Vin) On/Off Control • Output Current: 300mA (peak 480mA) • Supply Voltage: -0.4V ~ 16V • Operating Temperature: -30°C ~ 80°C • Line Regulation: 6.0mV • Maximum Output Current: 480mA • Quiescent Current: 1.8mA

Description:

The **TK112xxC** is an integrated circuit with a silicon monolithic bipolar structure. The regulator is of the low saturation voltage output type with very little quiescent current (65μA). The PNP power transistor is built-in. The I/O voltage difference is 0.17V (typ.) when a current of 200mA is supplied to the system. Because of the low voltage drop, the voltage source can be effectively used; this makes it very suitable for battery powered equipment. The on/off function is built into the IC. The over current sensor circuit and the reverse-bias protection circuit are built-in. It is a very rugged design because the ESD protection is high. Therefore, the TK112xxC can be used with confidence.

The **TK113xxCM** series of low dropout (LDO) voltage regulators are designed for use in battery powered equipment, portable communication devices or RF modules requiring a thermal enhanced SOT23L-6 package. The maximum continuous current power rating is 380mA.

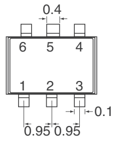

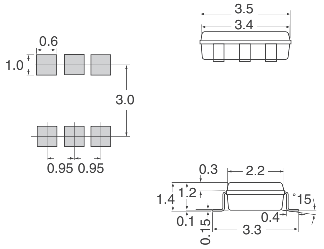

Series TK112xxC	**Series TK113xxCM**
1. On/Off	1. Vcont
2. Gnd	2. Gnd
3. Np (Vref)	3. Np (Vref)
4. Vout	4. Vout
5. Gnd	5. Gnd
6. Vin	6. Vin

Output Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,300	Toko Part No.
2.8	TKS11228CT-ND	1.80	1.51	1.38	TKS11228TR-ND	675.00/M	TK11228CMCL-G
3.0	TKS11230CT-ND	1.72	1.44	1.32	TKS11230TR-ND	675.00/M	TK11230CMCL-G
3.3	TKS11233CT-ND	1.80	1.51	1.38	TKS11233TR-ND	675.00/M	TK11233CMCL-G
5.0	TKS11250CT-ND	1.72	1.44	1.32	TKS11250TR-ND	675.00/M	TK11250CMCL-G
3.0	TKS11330CT-ND	2.49	2.08	1.91	TKS11330TR-ND	975.00/M	TK11330CMCL-G
3.3	TKS11333CT-ND	2.49	2.08	1.91	TKS11333TR-ND	975.00/M	TK11333CMCL-G
5.0	TKS11350CT-ND	2.49	2.08	1.91	TKS11350TR-ND	975.00/M	TK11350CMCL-G

Series TK111xxC/TK717xx

Specifications:

TK111xxC • Peak output current is 320mA (0.3V down point) • Built-in on/off control (0.1μA)max. standby current) High on • Supply Voltage: -0.4V ~ 16V • Operating Temperature: -30°C ~ 80°C • Line Regulation: 5mV • Maximum Output Current: 320mA • Quiescent Current: 1.0mA • Lead free **TK717xx** • Built-in PNP power transistor. Very small Dropout Voltage (Vdrop=163mV at Iout=200mA) • Supply Voltage: -0.4V ~ 16V • Operating Temperature: -30°C ~ 80°C • Line Regulation: 5mV • Maximum Output Current: 370mA • Quiescent Current: 72μA

Description:

The **TK111xxC** is an integrated circuit of the silicon monolithic bipolar structure, and the regulator of low saturation output type with very little quiescent current (63μA). The PNP power transistor is built-in. The I/O voltage difference when the current of 200mA (typical) is supplied to the system is 0.2V. The voltage source can be effectively used therefore, it is the best for the battery use set. The on/off function is built into the IC. The current in standing-by mode becomes slight (pA level). 1.5V)) ~ 10.0V is arranged to the output voltage in 0.1V step. The output voltage is trimmed in high accuracy.

The **TK717xx** is an integrated circuit with a silicon monolithic bipolar structure. The regulator is of the low saturation voltage output type with very little quiescent current. The PNP power transistor is built-in. The I/O voltage difference is 163mV (typ.) when a current of 200mA is supplied to the system. Because of the low voltage drop, the voltage source can be effectively used; this makes it very suitable for battery powered equipment. The on/off function is built into the IC. The current during standby mode becomes very small (pA level). In addition, the output short-circuit function works at off times. It is a unique characteristic by which the residual charge of the output side capacitor is rapidly discharged.

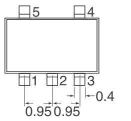

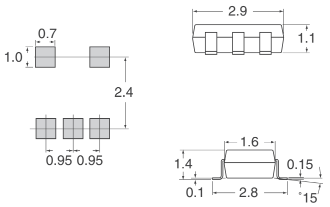

Series TK111xxC	**Series TK717xx**
1. On/Off	1. Vin
2. Gnd	2. Gnd
3. Np (Vref)	3. On/Off
4. Vout	4. Np (Vref)
5. Vin	5. Vout

Output Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Toko Part No.
2.5	TKS11125CT-ND	1.38	1.16	1.06	TKS11125TR-ND	540.00/M	TK11125CSCL-G
3.0	TKS11130CT-ND	1.46	1.23	1.13	TKS11130TR-ND	540.00/M	TK11130CSCL-G
3.3	TKS11133CT-ND	1.46	1.23	1.13	TKS11133TR-ND	540.00/M	TK11133CSCL-G
5.0	TKS11150CT-ND	1.38	1.16	1.06	TKS11150TR-ND	540.00/M	TK11150CSCL-G
2.8	TKS71728CT-ND	1.45	1.22	1.12	TKS71728TR-ND	570.00/M	TK71728SCL-G
3.0	TKS71730CT-ND	1.53	1.28	1.17	TKS71730TR-ND	570.00/M	TK71730SCL-G
3.3	TKS71733CT-ND	1.53	1.28	1.17	TKS71733TR-ND	570.00/M	TK71733SCL-G

Series TK715xxA

Specifications:

• Reverse bias voltage protection • Wide operating voltage range: 1.8V ~ 18V • Supply Voltage: -0.4V ~ 19V • Temperature Range: -30°C ~ 80°C • Line regulation: 3mV • Output Current: 155mA • Quiescent Current: 300μA

Description:

TK715xxA is a low drop out regulator with very few quiescent currents (25μA). An internal PNP pass transistor is applied to achieve a low dropout voltage of 105mV (typical) at 50mA load current. Because the output current 100mA (typical) can be supplied to the system at the I/O voltage difference, 0.2V time, the voltage source can be effectively used. Therefore, it is the best for the battery use set. The output voltage is trimmed in high accuracy. The over current sensor circuit and the reverse-bias protection circuit are built-in.

1. Vout
2. Vin
3. Gnd

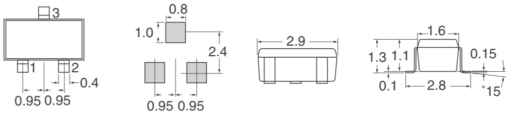

Output Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Toko Part No.
3.0	TKS71530CT-ND	1.19	1.00	.91	TK71530ASCL-G

SanDisk iDiskOnChip

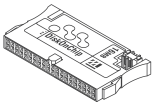

iDiskOnChip (iDOC) delivers extremely fast and easy integration, along with high performance and reliability. It offers built-in block device emulation without any software drivers. It can be used in any system with an IDE bus and with any operating system. iDiskOnChip continues the tradition with built-in error detection and correction code that corrects data errors on-the-fly. **Specifications:** Operating Temperature: 0°C ~ 70°C

Capacity	IDE Connector	Alignment	Digi-Key Part No.	Price Each	SanDisk Part No.
32MB	40-Pin	Horizontal, Left Oriented	585-1056-ND	16.38	MD1160-D32
	40-Pin	Horizontal, Left Oriented	585-1168-ND◆	13.58	MD1160-D32-P
	40-Pin	Horizontal, Right Oriented	585-1179-ND◆	13.58	MD1170-D32-P
	44-Pin	Horizontal, Right Oriented	585-1081-ND	16.10	MD1171-D32
	44-Pin	Horizontal, Right Oriented	585-1184-ND◆	13.30	MD1171-D32-P
64MB	40-Pin	Horizontal, Left Oriented	585-1059-ND	17.92	MD1160-D64
	40-Pin	Horizontal, Right Oriented	585-1076-ND	17.92	MD1170-D64
	40-Pin	Horizontal, Right Oriented	585-1180-ND◆	15.26	MD1170-D64-P
128MB	40-Pin	Horizontal, Right Oriented	585-1181-ND◆	17.65	MD1170-D128-P
	40-Pin	Horizontal, Left Oriented	585-1170-ND◆	17.65	MD1160-D128-P
	44-Pin	Horizontal, Left Oriented	585-1175-ND◆	17.64	MD1161-D128-P
192MB	40-Pin	Vertical	585-1037-ND	51.48	MD1150-D192
256MB	40-Pin	Horizontal, Left Oriented	585-1055-ND	34.86	MD1160-D256
	40-Pin	Horizontal, Left Oriented	585-1171-ND◆	21.66	MD1160-D256-P
	44-Pin	Horizontal, Left Oriented	585-1176-ND◆	21.28	MD1161-D256-P
512MB	40-Pin	Horizontal, Left Oriented	585-1058-ND	58.38	MD1160-D512
	44-Pin	Horizontal, Left Oriented	585-1067-ND	58.10	MD1161-D512
	44-Pin	Horizontal, Right Oriented	585-1083-ND	58.10	MD1171-D512
768MB	40-Pin	Vertical	585-1043-ND	84.84	MD1150-D768
	40-Pin	Vertical	585-1160-ND◆	43.53	MD1150-D768-P
1.5GB	44-Pin	Horizontal, Left Oriented	585-1061-ND	148.30	MD1161-D1536

◆ ***RoHS Compliant***

IDE/SATA/SCSI Fast Flash Disks

Fast Flash Disk (FFD) products provide rugged, high-performance and highly reliable data storage. They withstand extreme temperatures, shocks and vibrations, even in harsh conditions, without compromising on data integrity. FFD solid-state flash drives are a drop-in replacement for IDE, SATA and SCSI mechanical disks, eliminating seek time, latency and potential failures inherent in conventional rotating disks. FFD are available in commercial, enhanced and extended operating temperatures.

Series	Capacity	Digi-Key Part No.	Price Each	SanDisk Part No.
2.5” ULTRA ATA	1GB	585-1013-ND	977.70	FFD-25-UATA-1024-A
	1GB	585-1206-ND◆	848.13	SDACA-001G-000000
	2GB	585-1207-ND◆	881.91	SDACA-002G-000000
	4GB	585-1208-ND◆	954.63	SDACA-004G-000000
	8GB	585-1018-ND	1278.42	FFD-25-UATA-8192-A
	8GB	585-1209-ND◆	1101.09	SDACA-008G-000000
	12GB	585-1014-ND	3105.55	FFD-25-UATA-12288-B
2.5” SERIAL ATA	1GB	585-1007-ND	978.57	FFD-25-SATA-1-A
	2GB	585-1010-ND	1018.63	FFD-25-SATA-2-A
	4GB	585-1011-ND	1086.01	FFD-25-SATA-4-A
	4GB	585-1204-ND◆	951.28	SDSCA-004G-000000
	8GB	585-1012-ND	1278.42	FFD-25-SATA-8-A
	8GB	585-1205-ND◆	1087.98	SDSCA-008G-000000
	12GB	585-1008-ND	3105.55	FFD-25-SATA-12-B
	16GB	585-1009-ND	3424.75	FFD-25-SATA-16-B
	16GB	585-1203-ND◆	1623.93	SDSCA-016G-000000
IDE 4000 2.5”	128MB	585-1021-ND	93.48	IDE-4K-25-128
	3.5GB	585-1026-ND	225.06	IDE-4K-25-3584
ULTRA320 SCSI	4GB	585-1019-ND	2282.83	FFD35-U3S-4-T-P80
	4GB	585-1210-ND◆	2072.14	SD8NA-004G-000000

◆ ***RoHS Compliant***

uDiskOnChip

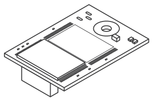

uDOC merges SanDisk’s expertise in two worlds: The USB 2.0 high-speed interface and uDiskOnChip industry-standard flash for embedded systems. The result is industry’s highest performance, uncompromising reliability and built-in security to encrypt data and code.

Capacity	Operating Temperature	Digi-Key Part No.	Price Each	SanDisk Part No.
1GB	0°C ~ 70°C	585-1085-ND	113.82	MD1665-D1024
	-40°C ~ 85°C	585-1086-ND	136.60	MD1665-D1024-X
2GB	0°C ~ 70°C	585-1089-ND	188.99	MD1665-D2048

NEW! uSSD™ 5000

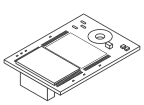

The uSSD 5000 solid state drive takes the benefits of flash to new markets with low-capacity storage requirements, most notably the low cost PC (LCPC). Rugged and reliable, it is a fraction of the size and cost of the hard disk drive (HDD). It achieves a sustained read speed up to 31MB/sec and a sustained write speed up to 24MB/sec with single-level cell (SLC) technology.

Mechanical Specifications: • Standard: 26.65mm x 37.80mm x 10.60mm • Low Profile: 26.65mm x 37.80mm x 6.88mm

Capacity	Configuration	Digi-Key Part No.	Price Each	
			1	25
1GB	Standard	SDUS5AB-001G-ND	37.67	35.80
	Low Profile	SDUS5EB-001G-ND	37.67	35.80
2GB	Standard	SDUS5AB-002G-ND	62.71	59.58
	Low Profile	SDUS5EB-002G-ND	62.71	59.58

Memory Cards

Standard, Ultra II, and Extreme III SD™

These SD (Secure Digital) cards are the leading solution for portable digital devices that require high capacity flash memory in a small form factor. Many consumer electronic companies have designed SD cards to meet market demands for sleeker, smaller devices.

The Ultra II SD card is fast and has minimum write and read speeds of 10/9MB/sec. This card is best suited for host devices that can benefit from a quicker data transfer rate.

The Extreme III SD card is one of SanDisks fastest performing SD cards. It has minimum write and read speeds of 20 MB/sec. This incredibly fast card targets applications where performance is the key feature requirement.

Memory Size	Digi-Key Part No.	Price Each		SanDisk Part No.
		1	25	
Standard SD Cards				
512MB	585-1224-ND	9.31	8.85	SDSDJ-512-J
1GB	585-1225-ND	12.11	11.51	SDSDJ-1024-J
2GB	585-1226-ND	27.97	26.58	SDSDJ-2048-J
NEW! Ultra II SD Card NEW!				
2GB	585-1230-ND	27.97	26.58	SDSDH-2048-J
NEW! Extreme III SD Card NEW!				
2GB	585-1231-ND	32.63	31.01	SDSDX3-2048-J

microSD™

The SanDisk microSD card is a quarter of the size of an SD card and is the newest standard of the SD Memory Card family. The compact size microSD card is becoming a key form factor for ultra-thin consumer electronic devices. The microSD card provides all the same functions as the full size SD card.

Memory Size	Digi-Key Part No.	Price Each		SanDisk Part No.
		1	25	
256MB	585-1219-ND	11.89	11.30	SDSDQ-256-J
512MB	585-1220-ND	17.82	16.94	SDSDQ-512-J
1GB	585-1221-ND	18.65	17.72	SDSDQ-1024-J
2GB	585-1222-ND	27.97	26.58	SDSDQ-2048-J

CompactFlash®

The size of a matchbook and weighing just half an ounce, SanDisk’s CompactFlash memory cards deliver high capacity flash memory in a small form factor. While conforming to the CompactFlash storage specifications, SanDisk CompactFlash cards maximize the functionality of today’s portable digital devices.

The CompactFlash 5000 Industrial Grade Memory Card achieves an outstanding sustained read and write performance rate up to 30MB/sec. With support for Ultra DMA 4 technology, it enables high data transfer rates and includes performance boosters and on-the-fly error detection.

Memory Size	Digi-Key Part No.	Price Each		SanDisk Part No.
		1	25	
CompactFlash Memory Cards				
512MB	585-1216-ND	13.99	13.29	SDCFJ-512-388-J
1GB	585-1217-ND	23.31	22.15	SDCFJ-1024-388-J
2GB	585-1218-ND	37.31	35.45	SDCFJ-2048-388-J
NEW! CompactFlash 5000 Industrial Grade Memory Cards NEW!				
1GB	585-1232-ND†	52.53	49.91	SDCFIF-001G-388
	585-1234-ND	52.53	49.91	SDCFIR-001G-388
2GB	585-1233-ND†	90.12	85.62	SDCFIF-002G-388
	585-1235-ND	90.12	85.62	SDCFIR-002G-388

† Fixed Device

WINTEC INDUSTRIES Memory Modules - Unbuffered

Memory Type	Package Size	Speed (MHz)	Memory Size Mega Bytes	Config. Mega Bits	Features	Digi-Key Part No.	Price Each‡		Wintec Part No.
							1	10	
SDRAM	168 DIMM	100	64	8x64	Non-ECC	385-1002-ND	27.28	26.71	W9Q308647PA-222
			64	8x72	ECC	385-1003-ND	54.85	53.71	W9Q308727KD-222K
			64	8x72	ECC	385-1019-ND	54.85	53.71	W9Q308727KD-222
			128	16x64	Non-ECC	385-1004-ND	54.82	53.68	W9Q316647LB-222
			128	16x72	ECC	385-1005-ND	101.15	99.05	W9Q316727KD-222K
			256	32x64	Non-ECC	385-1006-ND	107.40	105.17	W9Q332647LB-222
SDRAM	144 SODIMM	100	64	8x64	Non-ECC	385-1007-ND	27.28	26.71	W9R308647PA-222
			128	16x64	Non-ECC	385-1008-ND	84.00	82.25	W9R316647LB-222
			256	32x64	Non-ECC	385-1009-ND	76.09	74.51	W9R332647HA-222
SDRAM	144 SODIMM	133	64	8x64	Non-ECC	385-1010-ND	26.64	26.09	W9V308647PA-333
			128	16x64	Non-ECC	385-1011-ND	53.60	52.49	W9V316647LA-333
SDRAM	168 DIMM	133	64	8x64	Non-ECC	385-1013-ND	26.66	26.11	W9D308647PA-333
			128	16x64	Non-ECC	385-1014-ND	54.82	53.68	W9D316647LC-333
			256	32x64	Non-ECC	385-1015-ND	102.82	100.68	W9D332647LA-333
DDR SDRAM	184 SODIMM	266	128	16x64	Non-ECC	385-1000-ND	60.00	58.75	W4E216646LA-7.5
			256	32x64	Non-ECC	385-1001-ND	110.16	107.87	W4E232646LA-7.5

‡ Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.

CompactFlash™ Memory Card

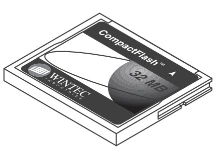

Memory Size (MB)	Digi-Key Part No.	Price Each ‡		Wintec Part No.
		1	10	
32	385-1016-ND	19.20	18.80	W7B6032M1XG-W
64	385-1017-ND	25.92	25.38	W7B6064M1XG-W
128	385-1020-ND◆	35.40	34.67	W7CF128M1XA-H0P1

◆ ***RoHS Compliant***

‡ Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.

Micron Memory Modules

Density	Package Size	Configuration Mega Bits	Speed	Data Rate MT/s	Digi-Key Part No.	Price Each‡			Micron Technology Part No.
						1	5	10	
SDRAM – RoHS Compliant									
128MB	144-SODIMM	16M x 64	PC133	133	557-1227-ND	35.36	28.99	27.53	MT4LSDT1664HY-13ED1
	168-DIMM Unbuffered	16M x 64	PC133	133	557-1301-ND	33.70	28.98	27.63	MT4LSDT1664AY-133D1
256MB	168-DIMM	32M x 64	PC133	133	557-1228-ND	69.79	62.85	59.69	MT8LSDT3264AY-133D2
	168-DIMM Unbuffered	32M x 64	PC133	133	557-1300-ND	73.41	66.12	62.80	MT8LSDT3264AY-13ED2
	144-SODIMM	32M x 64	PC133	133	557-1229-ND	69.64	62.73	59.57	MT8LSDT3264HY-13ED2
DDR SDRAM									
128MB	200-SODIMM	16M x 64	PC2700	333	557-1344-ND◆	41.99	34.42	32.69	MT4VDDT1664HY-335F3
256MB	184-DIMM Unbuffered	32M x 64	PC2700	333	557-1180-ND◆	55.44	49.93	47.42	MT8VDDT3264AY-335G6
	184-DIMM Unbuffered	32M x 72	PC2700	333	557-1133-ND	65.10	58.64	55.69	MT9VDDT3272AG-335G4
	184-DIMM Unbuffered	32M x 64	PC3200	400	557-1342-ND◆	49.70	44.77	42.52	MT4VDDT3264AY-40BF1
	200-SODIMM	32M x 64	PC2700	333	557-1231-ND◆	49.70	44.77	42.52	MT4VDDT3264HY-335F2
	200-SODIMM	32M x 72	PC2700	333	557-1135-ND	66.62	60.00	56.99	MT9VDDT3272HG-335G2
	200-SODIMM	32M x 72	PC3200	400	557-1136-ND	59.82	53.88	51.17	MT9VDDT3272HG-40BG2
512MB	184-DIMM Unbuffered	64M x 64	PC2700	333	557-1230-ND◆	86.33	78.18	75.59	MT8VDDT6464AY-335F4
	184-DIMM Unbuffered	64M x 72	PC2700	333	557-1137-ND	113.16	102.47	99.08	MT9VDDT6472AG-335D1
	184-DIMM Unbuffered	64M x 72	PC2700	333	557-1177-ND◆	102.02	92.38	89.33	MT9VDDT6472AY-335F1
	184-DIMM Registered	64M x 72	PC2700	333	557-1293-ND◆	92.75	83.98	81.21	MT9VDDF6472Y-335F1
	184-DIMM Unbuffered	64M x 64	PC3200	400	557-1232-ND◆	76.43	68.84	65.38	MT8VDDT6464AY-40BF4
	184-DIMM Unbuffered	64M x 72	PC3200	400	557-1178-ND◆	112.30	101.69	98.33	MT9VDDT6472AY-40BF1
	200-SODIMM	64M x 64	PC2700	333	557-1294-ND◆	88.47	80.11	77.46	MT8VDDT6464HDY-335F2
1GB	184-DIMM Registered	128M x 72	PC3200	400	557-1233-ND◆	172.10	158.04	153.47	MT18VDDF12872Y-40BF1
	200-SODIMM	128M x 64	PC2700	333	557-1292-ND◆	154.95	142.29	138.18	MT16VDDF12864HY-335F2
	200-SODIMM	128M x 72	PC2700	333	557-1115-ND	275.49	252.98	245.67	MT18VDDF12872HG-335D1
	200-SODIMM	128M x 72	PC2700	333	557-1173-ND◆	199.71	183.39	178.09	MT18VDDF12872HY-335F1
2GB	184-DIMM Registered	256M x 72	PC2700	333	557-1343-ND◆	343.29	322.34	138.18	MT36VDDF25672Y-335F3
DDR2 SDRAM – RoHS Compliant									
256MB	200-SODIMM	32M x 64	PC2-5300	667	557-1304-ND	33.86	29.11	27.76	MT4HTF3264HY-667D3
	240-DIMM Unbuffered	32M x 64	PC2-5300	667	557-1302-ND	33.86	29.11	27.76	MT4HTF3264AY-667D3
512MB	200-SODIMM	64M x 64	PC2-5300	667	557-1350-ND	45.32	40.82	38.76	MT4HTF6464HY-667E1
	240-DIMM Unbuffered	64M x 64	PC2-5300	667	557-1351-ND	45.32	40.82	38.76	MT4HTF6464AY-667E1
	240-DIMM Registered	64M x 72	PC2-5300	667	557-1305-ND	84.76	76.75	74.21	MT9HTF6472PY-667D2
	240-DIMM Registered	64M x 72	PC2-5300	667	557-1208-ND	86.33	78.18	75.59	MT9HVF6472PY-667D1
	240-DIMM Unbuffered	64M x 72	PC2-5300	667	557-1303-ND	73.11	65.85	62.54	MT9HTF6472AY-667D4
1GB	200-SODIMM	128M x 64	PC2-5300	667	557-1353-ND	78.55	70.74	67.19	MT8HTF12864HDY-667E1
	240-DIMM Unbuffered	128M x 64	PC2-5300	667	557-1352-ND	77.05	69.77	67.46	MT8HTF12864AY-667E1
2GB	200-SODIMM	256M x 64	PC2-5300	667	557-1345-ND	206.51	189.64	184.16	MT16HTF25664HY-667E1
	240-DIMM Unbuffered	256M x 64	PC2-5300	667	557-1347-ND	206.51	189.64	184.16	MT16HTF25664AY-667E1
	240-DIMM Unbuffered	256M x 72	PC2-5300	667	557-1346-ND	258.48	237.36	230.50	MT18HTF25672AY-667E1
	240-DIMM Registered	256M x 72	PC2-5300	667	557-1348-ND	258.48	237.36	230.50	MT18HTF25672PY-667E1
4GB	240DIMM Registered	523M x 72	PC2-5300	667	557-1349-ND	687.09	644.25	628.57	MT36HTF51272PY-667E1

◆ ***RoHS Compliant*** ‡ Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.

Qimonda DDR2 SDRAM Modules

RoHS COMPLIANT

Organi-zation	Module Type	Module Height	Digi-Key Part No.	Price Each‡			Qimonda Part No.
				1	25	100	
512MB — Module Speed PC2-5300							
64Mx64	200-SODIMM	1.18”	675-1025-ND	80.73	68.64	64.50	HYS64T64020HDL-3S-B
64Mx64	240-DIMM	1.18”	675-1023-ND	80.36	68.32	64.20	HYS64T64000HU-3S-B
64Mx72	240-DIMM	1.18”	675-1027-ND	103.64	88.12	82.80	HYS72T64000HR-3S-B
1GB — Module Speed PC2-5300							
128Mx64	200-SODIMM	1.18”	675-1026-ND	157.52	135.63	132.00	HYS64T128021HDL-3S-B
128Mx64	240-DIMM	1.18”	675-1024-ND	154.66	133.17	129.60	HYS64T128020HU-3S-B
128Mx72	240-DIMM	1.18”	675-1028-ND	189.02	162.76	158.40	HYS72T128000HR-3S-B
128Mx72	240-DIMM	1.18”	675-1030-ND	229.12	197.28	192.00	HYS72T128420HFA-3S-B
2GB — Module Speed PC2-5300							
256Mx72	240-DIMM	1.18”	675-1029-ND	367.20	324.00	307.80	HYS72T256220HR-3S-B
256Mx72	240-DIMM	1.18”	675-1031-ND	408.00	360.00	342.00	HYS72T256420HFA-3S-B

‡ Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.

TOSHIBA Memory Cards

RoHS COMPLIANT

Description	Memory Size	Digi-Key Part No.	Price Each‡		
			1	25	100
Secure Digital (SD)	1GB	SDM01GLF-ND	45.00	42.00	39.00

‡ Due to market fluctuations, please refer to the Digi-Key web site for most current pricing.

Panasonic® PC Cards

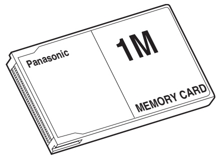

PCMCIA (Personal Computer Memory Card International Association) has jointly defined standard specifications for an IC memory card system interface. Now the IC memory card can be used as general-purpose media for exchanging data between systems.
SRAM Cards: 68 Pin JEIDA 4.2/PCMCIA Rel 2.1: • Available with or without attribute memory • Tool-less replaceable battery (CR2025) • Contains a rechargeable sub-battery which provides data back-up for up to one hour during battery changes • Type I Card
Flash Cards: 68 Pin Series 2 JEIDA 4.2/PCMCIA Rel 2.1: • Uses 8Mbit memory chips • Type I Card

Description	Digi-Key Part No.	Price Each
SRAM Card PCMCIA/JEIDA Standard, 68 Pins		
64Kx8/32Kx16, 200ns, 150mA, 5 Year Backup	BN-064HSR-ND	39.68
128Kx8/64Kx16, 200ns, 150mA, 5 Year Backup	BN-128HSR-ND	45.23
256Kx8/128Kx16, 200ns, 150mA, 5 Year Backup	BN-256HSR-ND	57.15
512Kx8/256Kx16, 200ns, 150mA, 5 Year Backup	BN-512HSR-ND	81.18
1Mx8/512Kx16, 200ns, 150mA, 4 Year Backup	BN -01MHSR-ND	118.71
2Mx8/1Mx16, 200ns, 150mA, 2 Year Backup	BN-02MHSR-ND	193.50
4Mx8/2Mx16, 200ns, 150mA, 1 Year Backup	BN-04MHSR-ND	301.00
8Mx8/4Mx16, 200ns, 150mA, 6 Month Backup	BN-08MHSR-ND◆	666.40
SRAM Card with Attribute Memory PCMCIA/JEIDA Standard, 68 Pins		
64Kx8/32Kx16, 200ns, 150mA, 5 Year Backup	BN-064HSRC-ND	43.60
128Kx8/64Kx16, 200ns, 150mA, 5 Year Backup	BN-128HSRC-ND◆	48.69
256Kx8/128Kx16, 200ns, 150mA, 5 Year Backup	BN-256HSRC-ND◆	62.09
512Kx8/256Kx16, 200ns, 150mA, 5 Year Backup	BN-512HSRC-ND◆	84.74
1Mx8/512Kx16, 200ns, 150mA, 4 Year Backup	BN-01MHSRC-ND	120.18
2Mx8/1Mx16, 200ns, 150mA, 2 Year Backup	BN-02MHSRC-ND	186.20
4Mx8/2Mx16, 200ns, 150mA, 1 Year Backup	BN-04MHSRC-ND◆	306.60
8Mx8/2Mx16, 200ns, 150mA, 6 Month Backup	BN-08MHSRC-ND◆	686.00
Flash Card, PCMCIA/JEIDA Standard, 68 Pins (Series 2)		
10Mx8/5Mx16, 250ns, 150mA	BN-10MHF3CE-ND◆	366.80

◆ ***RoHS Compliant***

Portescap DANAHER MOTION -SPECIALTY MOTORS

Stepper Motors

These stepper motors are very precise DC motors that move a specific degree of rotation with each pulse applied to its coils. Stepper motors can be controlled for either clockwise or counterclockwise rotation and can operate at very high speeds. Shaft speed is not affected by variations in torque. Unipolar motors have two coils wound on the same bobbin (4 coils total) where each winding is sequentially energized. Bipolar motors have only two windings and require a push-pull driver to operate. Holding torque is the force required to hold the shaft with back pressure applied. MNM is millinewton meter + torque. **Operating Specification:** • **Maximum Operating Temperature:** 100°C • **Operating Temperature Range:** -20°C ~ 70°C • **Bearing Type:** Bronze sleeve • **Insulation Resistance @ 500VDC:** 100MΩ • **Dielectric Withstanding Voltage:** 650VRMS 60Hz for 2 seconds • **Lead Wires:** 26AWG

Geared Stepper Motors

Standard 7.5 degree Stepper Motors offered with gear reduction for extremely high torque and precision. Perfect replacement for DC geared motors where accuracy is needed.

Digital Linear Actuators

Precise "In and Out" movements controlled by a stepper motor, these low-cost units provide industry-leading linear force positioning capability. An ideal linear actuator solution in medical equipment applications such as pumps, pipettes and scanners, as well as instrumentation and HVAC applications. These linear actuators are available in captive and non-captive versions, unipolar or bipolar coil construction, and industry-standard frame sizes.

Fig. 1

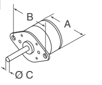

Fig. 2

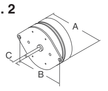

Fig. 3

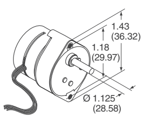

Fig. 4

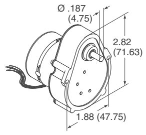

Fig. 5

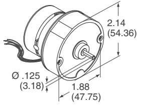

Fig. 6

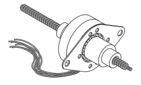

Fig. 7

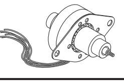

Fig.	Rated Voltage (VDC)	Type	Motor Size A (mm)	Motor Size B (mm)	Motor Size C (mm)	Steps per Rev.	Step Angle (Degrees)	Holding Torque (1) (mNm/oz-in)	Digi-Key Part No.	Price Each	Danaher Part No.
Standard Stepper Motors — RoHS Compliant											
1	5	Bipolar	15	20	1.5	20	18	3.9/.55	403-1000-ND	16.28	15M020D1B
	5	Unipolar	20	34.9	1.5	20	18	7.8/1.1	403-1001-ND	17.02	20M020D1U
	5	Unipolar	20	34.9	1.5	24	15	7.70/1.1	403-1018-ND	17.02	20M024D1U
	5	Bipolar	20	34.9	1.5	20	18	11.31/1.6	403-1002-ND	16.28	20M020D1B
	5	Unipolar	26	34.9	2	24	15	6.3/0.9	403-1020-ND	17.02	26M024D1U
	12	Unipolar	26	34.9	2	24	15	6.3/0.9	403-1003-ND	17.02	26M024B2U
	5	Unipolar	26	34.9	2	48	7.5	9.2/1.3	403-1019-ND	17.02	26M048D1U
	12	Unipolar	26	34.9	2	48	7.5	9.2/1.3	403-1004-ND	17.02	26M048B2U
	5	Bipolar	26	34.9	2	48	7.5	10.6/1.5	403-1005-ND	16.28	26M048B1B
	5	Unipolar	36	42	2	48	7.5	18.35/ 2.6	403-1021-ND	18.06	35M048B1U
	5	Unipolar	36	42	2	48	7.5	25/3.5	403-1022-ND	18.06	35L048B1U-N
	5	Bipolar	36	42	2	48	7.5	27.5/3.9	403-1006-ND	17.32	35L048B1B-N
	12	Unipolar	36	42	2	48	7.5	27.5/3.9	403-1007-ND	18.96	35L048B2U-N
	12	Unipolar	36	42	2	48	7.5	18.4/2.6	403-1008-ND	18.06	35M048B2U
2	5	Unipolar	42	49.5	3	48	7.5	66.2/9.4	403-1023-ND	18.70	42M048C1U-N
	5	Unipolar	42	49.5	3	48	7.5	49.4/7.0	403-1024-ND	18.90	42L048D1U
	5	Bipolar	42	49.5	3	48	7.5	87.5/12.4	403-1009-ND	17.74	42M048C1B
	12	Unipolar	42	49.5	3	48	7.5	73.4/10.4	403-1010-ND	18.70	42M048C2U
	12	Unipolar	42	49.5	3	48	7.5	50.8/7.2	403-1011-ND	18.70	42S048D2U
	5	Bipolar	42	49.5	3	100	3.6	49.4/7.0	403-1012-ND	17.74	42M100B1B
	12	Unipolar	42	49.5	3	100	3.6	45.2/6.4	403-1013-ND	18.70	42M100B2U
	5	Bipolar	44	49.5	3	100	3.6	46.6/6.6	403-1014-ND	17.96	44M100D1B
	12	Bipolar	44	49.5	3	100	3.6	46.6/6.6	403-1015-ND	18.70	44M100D2B
	5	Unipolar	55	66.7	6.35	48	7.5	102.4/14.5	403-1025-ND	19.84	55M048D1U
	5	Bipolar	55	66.7	3	48	6.3	122.2/17.3	403-1016-ND	18.90	55M048D1B
	12	Unipolar	55	66.7	3	48	6.3	102.4/14.5	403-1017-ND	19.84	55M048D2U

Fig.	Rated Voltage (VDC)	Type	Output Step Angle	Gear Ratio Gearhead	Output Speed Shaft	Running Torque (Nm/oz-in)	Digi-Key Part No.	Price Each	Danaher Part No.
Geared Stepper Motors — RoHS Compliant									
3	12	Unipolar	0.25	30:1	6.25RPM @ 100PPS	70.6mNm/10oz-in	403-1026-ND	32.46	26M048B2U-V31
4	5	Bipolar	0.15	50:1	6RPM @ 240PPS	.854/121	403-1027-ND	38.52	42M048C1B-Z36
5	12	Unipolar	0.75	10:1	30RPM @ 240PPS	.211/29.9	403-1029-ND	40.62	42M048C2U-R21
5	12	Bipolar	0.75	10:1	30RPM @ 240PPS	.211/29.9	403-1028-ND	40.62	42M048C2B-R21

Fig.	Rated Voltage (VDC)	Type	Shaft Type	Maximum Shaft Travel	Step Resolution	Digi-Key Part No.	Price Each	Danaher Part No.
Digital Linear Actuators — RoHS Compliant								
6	12	Unipolar	NonCaptive	1.97"	.001"	403-1030-ND	36.96	20DAM10D2U-L
7	12	Unipolar	Captive	0.59"	.001"	403-1031-ND	40.48	20DAM10D2U-K
6	12	Unipolar	NonCaptive	1.89"	.001"	403-1032-ND	48.54	26DBM10D2U-L
7	12	Unipolar	Captive	0.52"	.001"	403-1033-ND	49.68	26DBM10D2U-K
6	12	Unipolar	NonCaptive	2.50"	.001"	403-1034-ND	55.52	35DBM10B2U-L
7	12	Unipolar	Captive	0.875"	.001"	403-1035-ND	58.66	35DBM10B2U-K

Note: *1 Holding Torque measured with rated voltage and 2 phases energized.*

MODERN TECHNOLOGY

Unipolar Stepper Motor Driver Board

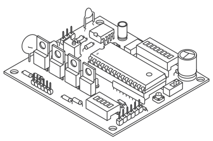

The MTSD-V1 can be used as a stand-alone uni-polar stepper motor driver board or in conjunction with a PC or programmable controller for greater flexibility. **Applications:** Robotics, Motion Control, Education, Light Duty Industrial • Adjustable On-Board Step Clock (15-1500hz) • Continuous Run or Pre-settable Step Count from 0-255 steps • Pushbutton Repeat (pre-set step count) • LED Phase/Step Indicators • .1" SIP Header Connectors (.025" square pins) **"Stand Alone" Functions (Dip Switch Selectable):** • Disable/Enable • CW/CCW Direction • Single/Dual Phase Drive • Locked/Free Motor during Disable • Continuous Run/Pre-set Step Count (0-225 steps) **Programmable Controller Input Functions:** • Disable/Enable CW/CCW Direction • Pre-set Step Count Repeat • Logic OUTOUT pin to ID end of pre-set step count • External Clock Input (10 kHz maximum) **Power Requirements:** • **Logic Supply:** 5VDC @ 50mA • **Motor Supply:** Maximum of 24VDC @ 1.85 Amps draw • **Board Dimensions:** 3.20" x 2.70" x .875" (81.28mm x 68.58mm x 22.23mm)

MTSD-V1-ND **$89.40**

CRAMER COMPANY
Precision Timers and Motion Devices

AC/DC Geared Motors

RoHS COMPLIANT

105 Series AC Gear Motor: Unidirectional operation assured by ball and slot "no-back" system. Motors listed are all clockwise rotation when facing the output shaft. **Characteristics:** Rotor Speed 600 RPM, 120VAC, 60Hz Coil, 2.7 Watts, -20°C ~ 55°C Operating Temperature. Motor develops 300oz-in. Torque starting and running at 1 RPM. To determine torque available on motors shown, divide 300oz-in by listed motor speed.

6100 Hysteresis Series Motor: provides smooth quiet performance and allows operation to a stall condition without damage or an increase in temperature. Perfect for HVAC controls, Automatic Teller Machines and other applications. Motors listed are all counter clockwise rotation when facing the output shaft.

800I Series DC Gear Motor: Basic 2400 and 4800 armature speed used. Geartrain rating 30oz-in dynamic, 90oz-in static. Starting and running torque 60oz-in at 1 RPM. These ratings are conventionally stated for output geared to 1 RPM. Motor output speed will be higher if load is less than 30oz-in Voltages offered 12VDC and 24VDC. DC motors rotation are reversible by reversing polarity at terminals.

Fig. 1

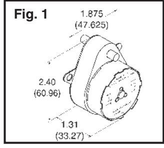

Flatted Round Shaft

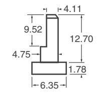

(Std. for all series)

Fig. 2

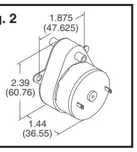

Fig.	Volt.	RPM	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Cramer Part No.
105 Series (CW Rotation)							
1	120 VAC	12	CRA101-ND	31.26	27.31	24.68	30551
		10	CRA102-ND	34.87	30.47	27.53	30543
		6	CRA103-ND	31.26	27.31	24.68	30544
		2	CRA104-ND	31.26	27.31	24.68	30545
		1	CRA105-ND	31.26	27.31	24.68	30546
		1/2	CRA106-ND	32.59	28.47	25.73	30547
6100 Hysteresis Series (CCW Rotation)							
1	24 VAC	1	CRA207-ND	37.43	32.71	29.55	61068
		2	CRA210-ND	37.43	32.71	29.55	61081
		4	CRA209-ND	37.43	32.71	29.55	61140
	120 VAC	1	CRA208-ND	37.81	33.04	29.85	61069
800I Series							
2	12 VDC	1	CRA201-ND	46.55	40.67	36.75	30568
		10	CRA202-ND	46.55	40.67	36.75	30569
		30	CRA203-ND	46.55	40.67	36.75	30570
		60	CRA212-ND	46.55	40.67	36.75	30827
	24 VDC	1/3	CRA211-ND	33.84	29.57	26.72	30904
		1	CRA204-ND	46.55	40.67	36.75	30571
		10	CRA205-ND	46.55	40.67	36.75	30572
		30	CRA206-ND	46.55	40.67	36.75	30573
		60	CRA213-ND	46.55	40.67	36.75	8870

Pontiac Coil

Solenoids

Pontiac Coil's range of latching, open-frame and tubular solenoids are all designed for manufacturability and unsurpassed quality.

Open Frame

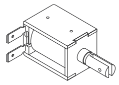

Tubular

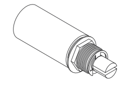

Dimensions Inch H x L x W	Max. Stroke Length Inch Cont./Inter./Pulsed	Power W Cont./Inter./Pulsed	Coil VDC	Digi-Key Part No. Cont. Version	Digi-Key Part No. Inter. Version	Digi-Key Part No. Pulsed Version	Price Each 1	Price Each 25	Price Each 100	Pontiac Coil Part No. Cont. Version	Pontiac Coil Part No. Inter. Version	Pontiac Coil Part No. Pulsed Version
Open Frame Pull Type												
1.63 x 2.03 x 1.44	1/1	11/44	12 24	527-1016-ND 527-1018-ND	— —	— —	28.00 28.00	23.01 23.01	13.80 13.80	F0451A F0453A	— —	— —
1.21 x 1.85 x 0.95	0.75/0.75	8/19	12	527-1008-ND	527-1009-ND	—	25.00	20.00	10.85	F0431A	F0432A	—
0.96 x 1.17 x 0.82	0.50/0.50	6.4/12.5	12 24	527-1004-ND 527-1006-ND	527-1005-ND —	— —	22.50 22.50	17.75 17.75	10.11 10.11	F0421A F0423A	F0422A —	— —
0.75 x 1.20 x 0.76	0.50/0.50	4/8.5	12 24	527-1000-ND 527-1002-ND	527-1001-ND 527-1003-ND	— —	21.00 21.00	16.25 16.25	9.26 9.26	F0411A F0413A	F0412A F0414A	— —
1.24 x 2.02 x 1.00	0.75/0.75	7.5/19	12 24	527-1012-ND 527-1014-ND	527-1013-ND 527-1015-ND	— —	26.00 26.00	19.05 19.05	11.91 11.91	F0441A F0443A	F0442A F0444A	— —
1.85 x 2.66 x 1.57	1.25/1.25	13/48	12 24	527-1020-ND 527-1022-ND	527-1021-ND 527-1023-ND	— —	30.00 30.00	25.51 25.51	14.96 14.96	F0461A F0463A	F0462A F0464A	— —
Open Frame Latching Pull Type with Spring Return												
0.76 x 1.19 x 0.76	0.375/0.375/0.375	4/9/40	12 24	527-1036-ND 527-1039-ND	527-1037-ND 527-1040-ND	527-1038-ND —	32.00 32.00	28.00 28.00	18.31 18.31	G0401A G0404A	G0402A G0405A	G0403A —
1.23 x 2.05 x 1.03	0.75/0.75/0.75	7/20/72	12 24	527-1042-ND 527-1045-ND	527-1043-ND —	527-1044-ND —	34.00 34.00	29.50 29.50	21.10 21.10	G0411A G0414A	G0412A —	G0413A —
Tubular Pull Type												
Dia. 1.00 x L 2.03	0.875/0.875	8/40	12 24	527-1028-ND 527-1030-ND	527-1029-ND 527-1031-ND	— —	29.00 29.00	24.51 24.51	14.20 14.20	F0481A F0483A	F0482A F0484A	— —
Dia. 1.50 x L 2.38	1.25/1.25	14/66	12 24	527-1032-ND 527-1034-ND	527-1033-ND 527-1035-ND	— —	35.00 35.00	31.01 31.01	22.50 22.50	F0491A F0493A	F0492A F0494A	— —
Dia. 0.75 x L 1.50	0.50/0.875	6/40	12 24	527-1024-ND 527-1026-ND	527-1025-ND 527-1027-ND	— —	27.00 27.00	22.50 22.50	12.91 12.91	F0471A F0473A	F0472A F0474A	— —

CUI INC

Peltier Modules

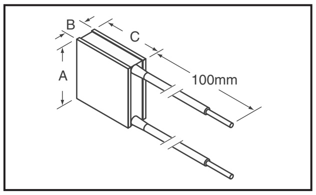

CUI Peltier Modules provide a convenient and reliable cooling solution. Their compact size make them ideal for applications that are size or weight limited and in applications where heat sinks, compressors or fans wouldn't be feasible. They can be operated in any orientation, do not require the use of chloroflurocarbons and have no moving parts so they are virtually maintenance free. They are great for use in many demanding industries such as medical, laboratory, aerospace, semiconductor, telecom, industrial, and consumer products.

Maximum Current (A)	Maximum Voltage (V)	Resistance (Ω ± 10%)	(Th = 27°C)		Dimensions - mm			Digi-Key	Price Each			CUI
			Qmax (W)	Delta Tmax	A	B	C	Part No.	1	10	100	Part No.
2.0	3.8	1.6	3.7	66°C	15	5.1	15	102-1663-ND	15.18	13.66	11.39	CP20151
	8.6	3.7	8.5		20	5.1	20	102-1664-ND	16.36	14.72	12.27	CP20251
	15.4	6.7	15.2		30	5.1	30	102-1665-ND	16.04	14.44	12.03	CP20351
3.0	3.8	1.0	6.5	66°C	15	3.8	15	102-1666-ND	15.18	13.66	11.39	CP30138
	8.6	2.3	15		20	3.8	20	102-1667-ND	16.36	14.72	12.27	CP30238
	15.4	4.0	27		30	3.8	30	102-1668-ND	15.94	14.35	11.96	CP30338
4.0	3.8	0.8	8.1	66°C	15	3.6	15	102-1669-ND	15.18	13.66	11.39	CP40136
	8.6	2.0	18.7		20	3.6	20	102-1670-ND	16.36	14.72	12.27	CP40236
	15.4	3.5	33.4		30	3.6	30	102-1671-ND	15.44	13.90	11.58	CP40336
6.0	3.8	0.5	12.2	66°C	15	3.3	15	102-1672-ND	15.18	13.66	11.39	CP60133
	8.6	1.2	27.9		20	3.3	20	102-1673-ND	16.36	14.72	12.27	CP60233
	15.4	2.2	50.5		30	3.3	30	102-1674-ND	15.44	13.90	11.58	CP60333
	2.1	0.29	7.1	68°C	15	4.0	15	102-1675-ND	13.54	12.19	10.16	CP60140
	3.8	0.53	13		20	4.0	20	102-1676-ND	14.90	13.41	11.18	CP60240
	8.6	1.21	29		30	4.0	30	102-1677-ND	16.04	14.44	12.03	CP60340
	15.4	2.17	53		40	4.0	40	102-1678-ND	15.82	14.24	11.87	CP60440
8.5	2.1	0.2	10	68°C	15	3.8	15	102-1679-ND	14.48	13.03	10.86	CP85138
	3.8	0.4	18		20	3.8	20	102-1680-ND	16.30	14.67	12.23	CP85238
	8.6	0.9	42		30	3.8	30	102-1681-ND	16.88	15.19	12.66	CP85338
	15.4	1.5	75		40	3.8	40	102-1682-ND	17.82	16.04	13.37	CP85438

AAVID THERMALLOY

Heat Sinks

Aavid's Ultrastick™ is a unique phase-change thermal interface material that surpasses grease in thermal performance and long-term stability. This solid, silicone free, paraffin based thermal compound changes phase at 60°C, with a concurrent volumetric expansion that fills gaps between the mating surfaces. One cost effective application leaves a thin, film like deposit, providing excellent heat transfer and low interface thermal resistance.

Features:

- Thermal resistance 20% lower than thermal grease, with significant long-term reliability benefits
- Excellent heat transfer properties, consistent at mounting pressures from less than 5 psi to more than 200 psi
- No run-out, migration, dry-out, or flaking that can occur with typical thermal grease
- Non-toxic and inert
- Electrically non-conducive
- Easy to use and dry to the touch after application, reducing labor costs
- Each bar covers approximately 1,000 in^2

HS243-ND……………………………………………………$21.88

Fig. 1

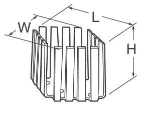

Fig. 2

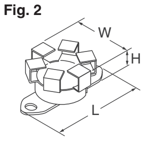

Fig. 3

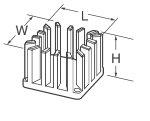

Fig. 4

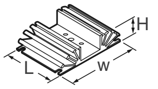

Fig. 5

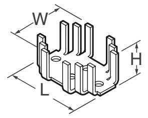

Fig. 6

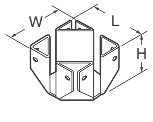

Fig. 7

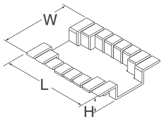

Fig. 8

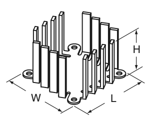

Fig. 9

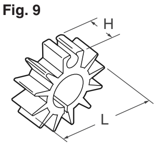

Fig. 10

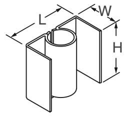

Fig.	Description	Dimensions – Inch (mm) L x W x H	Thermal Resistance °C/W	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
1	TO-3, Compact Heat Sink, 5W, Black	1.88 x 1.40 x .50 (47.75 x 35.56 x 12.70)	11.5	HS148-ND◆	.88	.79	.62	501303B00000G
	TO-3, Compact Heat Sink, 7W, Black	1.88 x 1.40 x .75 (47.75 x 35.56 x 19.05)	8.3	HS149-ND◆	.95	.86	.67	501403B00000G
	TO-3, With Wave-On Mounts, 9W, Black	1.88 x 1.40 x .75 (47.75 x 35.56 x 19.05)	8.3	HS267-ND	2.72	2.45	1.91	501403B00100
	TO-3, With Wave-On Mounts, 9W, Black	1.88 x 1.40 x .75 (47.75 x 35.56 x 19.05)	8.3	HS384-ND◆	2.81	2.54	1.97	501403B00100G
	TO-3, Compact Heat Sink, 8.5W, Black	1.88 x 1.40 x 1.00 (47.75 x 35.56 x 25.40)	6.3	HS248-ND◆	1.31	1.19	.92	501503B00000G
	TO-3, With Wave-On Mounts, 9W, Black	1.88 x 1.40 x 1.00 (47.75 x 35.56 x 25.40)	6.3	HS269-ND	2.61	2.35	1.83	501503B00100
	TO-3, Compact Heat Sink, 9.5W, Black	1.88 x 1.40 x 1.25 (47.75 x 35.56 x 31.75)	5.4	HS110-ND◆	1.34	1.21	.94	501603B00000G
	TO-3, Compact, 9W, Gold	1.88 x 1.40 x 1.25 (47.75 x 35.56 x 31.75)	5.4	HS270-ND	1.20	1.08	.84	501603C00000
2	TO-3, Expandable Collar Type (Can be used with Fig. 1), Black	1.54 x 1.125 x .87 (39.12 x 28.57 x 22.10)	22.0	HS236-ND◆	.97	.88	.68	579103B00000G
3	TO-3, 25W, Black	1.81 x 1.81 x 1.25 (45.97 x 45.97 x 31.75)	5.4	HS103-1.25-ND◆	5.08	4.57	3.56	568303B00000G
	TO-3, 17W, Black	1.81 x 1.81 x .50 (45.97 x 45.97 x 12.70)	12.5	HS103-0.5-ND◆	5.05	4.55	3.54	568003B00000G
	TO-3, Free/Forced Air No Holes, 12W, Black	1.83 x 1.83 x .50 (46.48 x 46.48 x 12.70)	5.4	HS291-ND◆	5.12	4.61	3.59	568000B00000G
	TO-3, Free or Forced Air Cooling, 12W, Black	1.83 x 1.83 x .75 (46.48 x 46.48 x 19.05)	5.4	HS293-ND◆	8.26	7.44	5.79	568103B00000G
	TO-3, Free or Forced Air Cooling, 12W, Black	1.81 x 1.81 x 1.00 (45.97 x 45.97 x 25.40)	5.4	HS294-ND◆	7.62	6.86	5.34	568203B00000G
4	TO-3, Power Cooler, 50W, Black	3.00 x 4.125 x 1.00 (76.20 x 104.78 x 25.40)	5.4	HS117-ND◆	7.63	6.87	5.34	198540B00000
5	TO-3, Space Saver, 6W, Black	1.63 x 1.29 x .75 (41.40 x 32.77 x 19.05)	5.4	HS140-ND◆	1.61	1.45	1.13	502203B00000
	TO-3, Space Saver, 8W, Black	1.63 x 1.29 x 1.00 (41.40 x 32.77 x 25.40)	5.4	HS141-ND◆	2.21	1.99	1.55	502303B00000
	TO-3, Space Saver, 12W, Black	1.63 x 1.29 x 1.25 (41.40 x 32.77 x 31.75)	5.4	HS142-ND◆	2.06	1.86	1.45	502403B00000
6	TO-3, Heat Sink, Fold-Back Fins, No Holes, 10W, Black	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.4	HS296-ND◆	3.04	2.74	2.13	569000B00000G
	TO-3, Fold-Back Fins, 20W, Black	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.4	HS110-3-ND◆	1.47	1.33	1.04	569003B00000G
	TO-3, Fold-Back Fins, 10W, Gold	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.4	HS298-ND	1.40	1.26	.98	569003C00000
	TO-220, Dual Mount Power Cooler, 20W, Black	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.5	HS110-220-ND◆	1.86	1.68	1.31	569022B00000G
7	TO-3, Universal Hole Pattern, Low Profile, Black	2.00 x 1.75 x .375 (50.80 x 44.45 x 9.53)	7.0	HS228-ND◆	1.05	.95	.74	506007B00000G
	TO-3, Slanted Fin, 10W, Black	1.81 x 1.81 x .50 (45.97 x 45.97 x 12.70)	3.5	HS260-ND◆	2.19	1.97	1.54	500103B00000G
8	TO-3, Slanted Fin, 12W, Black	1.81 x 1.81 x 1.25 (45.97 x 45.97 x 31.75)	2.5	HS264-ND◆	2.12	1.91	1.49	500403B00000G
	TO-3, Slanted Fin, 14W, Black	2.5 x 2.5 x .90 (63.50 x 63.50 x 22.86)	4.9	HS265-ND◆	2.65	2.39	1.86	500503B00000G

* Dielectric Coating   Unless otherwise noted, all heat sinks are black anodized aluminum.   ◆ ***RoHS Compliant***

(Continued)

Fig. 11

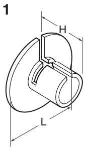

Fig. 12

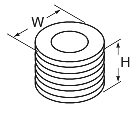

Fig. 13

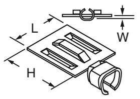

Fig. 14

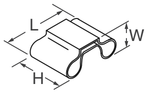

Fig. 15

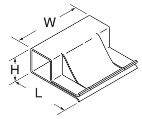

Fig. 16

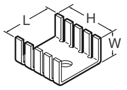

Fig. 17

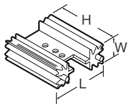

Fig. 18

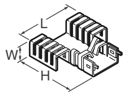

Fig. 19

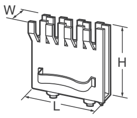

Fig. 20

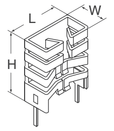

Fig. 21

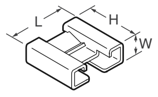

Fig. 22

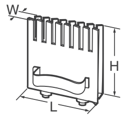

Fig. 23

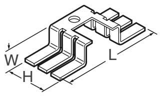

Fig. 24

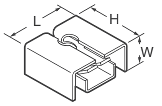

Fig. 25

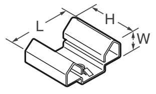

Fig.	Description	Dimensions – Inch (mm) L x W x H	Thermal Resistance °C/W	Digi-Key Part No.	Price Each			Aavid Part No.
					1	10	100	
9	TO-5, High Performance, 2W, Black	.75 dia x .25 (19.05 dia x 6.35)	56.0	HS101-ND◆	1.14	1.03	.80	323005B00000G
	TO-5, Press-On, 1W, Black	.5 dia x .25 (127 dia x 6.35)	56.0	HS253-ND◆	1.72	1.55	1.21	320205B00000G
	TO-5, Press-On, High Performance, 1W, Black	.50 dia x .375 (12.70 dia x 9.52)	30.0	HS259-ND◆	1.28	1.15	.90	326005B00000G
10	TO-5, Snap-On Cooler, 1.5W, Black	.83 x .395 x .50 (21.08 x 10.03 x 12.70)	38.0	HS217-ND◆	.51	.37	.26	578205B00000G
	TO-5, Snap-On Cooler, 2W, Black	.83 x .395 x .75 (21.08 x 10.03 x 19.05)	35.0	HS218-ND◆	.47	.34	.24	578305B00000G
11	TO-5, Dual Fin Press-Fit Heat Sink, Black	.75 dia x .40 (19.05 dia x 10.16)	56.0	HS242-ND◆	2.46	2.22	1.73	322505B00000G
	TO-5, Press-On, 1.25W, Black	.75 dia x .25 (19.05 dia x 6.35)	40.0	HS257-ND◆	2.49	2.24	1.74	322605B00000G
	TO-5, Press-On, 1.25W, Gold	.75 dia x .25 (19.05 dia x 6.35)	40.0	HS258-ND	2.43	2.19	1.71	322605C00000
	TO-92 and TO-18, Press Fit, 1W, Black	.50 dia x .235 (12.70 dia x 5.97)	100.0	HS100-ND◆	1.30	1.17	.91	322400B00000G
12	TO-5, 2 Piece Part for Max Dissipation, 1W, Gold	.625 dia x .271 (15.88 dia x 6.88)	22.0	HS254-ND	7.20	6.48	5.04	321127C00000
	TO-39, 2 Piece Part for Max Dissipation, 2W, Black	.75 dia x .290 (19.05 dia x 7.37)	20.0	HS255-ND◆	11.26	10.14	7.89	321527B00000G
13	TO-92, Press Fit Heat Sink, For Standard or Modified Package, Black	.60 x .05 x .50 (15.24 x 1.27 x 12.70)	64.0	HS251-ND◆	.46	.33	.23	575200B00000G
14	TO-126, Vertical Mount Clip-On Cooler, Black	.775 x .32 x .52 (19.69 x 8.13 x 13.21)	26.0	HS216-ND◆	.46	.33	.23	577500B00000G
15	TO-202, Compact Clip-On Heat Sink, Black	.58 x .80 x .25 (14.73 x 20.32 x 6.35)	28.0	HS247-ND◆	.57	.41	.29	574004B00000G
16	TO-202, Low Profile Heat Sink, Black	.52 x .375 x .75 (13.21 x 9.53 x 19.05)	27.2	HS214-ND◆	.44	.32	.22	577304B00000G
	TO-202, Low Profile Heat Sink, Black	.52 x .50 x .75 (13.21 x 12.70 x 19.05)	24.0	HS215-ND◆	.44	.32	.22	577404B00000G
	TO-220, Compact Heat Sink, Black	.52 x .25 x .75 (13.21 x 6.35 x 19.05)	32.0	HS105-ND◆	.40	.29	.20	577002B00000G
	TO-220, Compact Heat Sink, Black	.52 x .375 x .75 (13.21 x 9.53 x 19.05)	25.9	HS106-ND◆	.36	.26	.18	577102B00000G
	TO-220, Compact Heat Sink, Black	.52 x .50 x .75 (13.21 x 12.70 x 19.05)	24.4	HS107-ND◆	.36	.26	.19	577202B00000
	TO-220, Low Profile, 2.5W, Gold	.75 x .75 x .375 (19.05 x 19.05 x 9.52)	24.0	HS272-ND	.34	.31	.24	507302C00000
	TO-220, Low Profile, Low Cost Cooler, 2.5W, Black	.75 x .75 x .375 (19.05 x 19.05 x 9.53)	24.0	HS115-ND◆	.40	.29	.20	507302B00000G
	TO-220, 2 Hole Pattern Heat Sink, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	16.7	HS230-ND◆	.56	.44	.33	530613B00000G
	TO-220, Horizontal/Vertical Mount, 4.5W, Black	1.00 x 1.18 x .50 (25.40 x 29.97 x 12.70)	16.7	HS278-ND◆	.47	.42	.33	530614B00000G
	TO-220, Horizontal/Vertical Mount, 3.7W, Gold	1.00 x .71 x .50 (25.40 x 18.03 x 12.70)	20.3	HS279-ND	.32	.29	.23	530714C00000
	TO-220, Compact Heat Sink, With Tabs, Black	.52 x .25 x .75 (13.21 x 6.35 x 19.05)	32.0	HS367-ND◆	.46	.42	.33	577002B04000G
	TO-220, Compact Heat Sink, With Center Tabs, Black	.52 x .375 x .75 (13.21 x 9.53 x 19.05)	25.9	HS368-ND◆	.46	.42	.33	577102B04000G
	TO-220, Low Cost Vertical Mount, With Front Tabs, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.6	HS362-ND◆	3.73	3.36	2.62	575002T00000G
	TO-220, Low Cost Vertical Mount, With Front Tabs, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.6	HS353-ND◆	3.10	2.79	2.17	563002T00000G
	TO-220, Low Cost Vertical Mount, With Center Tabs, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.6	HS348-ND*◆	3.26	2.94	2.29	523002T00000G
	TO-220, Vertical Mount With Black Tabs	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.0	HS194-ND◆	.50	.40	.30	563002B00000G
	TO-220, Vertical Mount With Black Tabs	1.00 x .50 x .95 (25.40 x 12.70 x 24.13)	16.6	HS207-ND◆	.64	.50	.38	576602B00000G
	TO-220, Vertical Mount With Pre-Tinned Tabs, Black	1.00 x .50 x .95 (25.40 x 12.70 x 24.13)	16.6	HS363-ND◆	4.44	4.00	3.11	576602T00000G
17	TO-220, Power Cooler, 9.0W, Screw Mount, Gold	1.50 x 1.375 x 1.00 (38.10 x 34.93 x 25.40)	13.4	HS282-ND	1.32	1.19	.93	531002C00000
	TO-220, Power Cooler, With Pins, Heavy Duty, Black	1.38 x .50 x 1.00 (35.05 x 12.70 x 25.40)	13.4	HS351-ND◆	1.30	1.17	.91	531002B02500G
	TO-220, Power Cooler, 9.0W, Black	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS284-ND◆	1.27	1.14	.89	531102B00000G
	TO-220, Power Cooler, With Pins, Heavy Duty, Black	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS352-ND◆	1.37	1.24	.97	531102B02500G
	TO-220, Power Cooler, With Pins, 2-Sided Mount, Black	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	11.0	HS346-ND◆	1.15	1.04	.81	513102B02500G
	TO-220, Power Cooler, With Pins, 2-Sided Mount, Black	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	3.7	HS350-ND◆	1.65	1.49	1.16	529802B02500G
	TO-220, Power Cooler, Black	1.38 x .50 x 1.00 (35.05 x 12.70 x 25.40)	13.4	HS231-ND◆	1.19	1.08	.84	531002B00000G
	TO-220, Power Cooler, Screw Mount, Gold	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS131-ND	1.52	1.37	1.07	531102C00000
	TO-220, Power Cooler, With Pins	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS399-ND◆	1.81	1.63	1.27	531102V02500G
	TO-220, Power Cooler, Screw Mount, Gold	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS132-ND	1.56	1.41	1.10	531202C00000
	TO-220, Power Cooler, With Pins, Gold	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS132-P-ND	1.94	1.75	1.36	531202C02500
	TO-220, Power Cooler, 9.0W, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS287-ND◆	1.43	1.29	1.01	531202B00000G
	TO-220, Power Cooler, With Pins, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS382-ND◆	1.49	1.34	1.05	531202B02500G
	TO-220, Vertical Power, 10W, Screw Mount, Black	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	2.5	HS276-ND◆	1.49	1.34	1.05	529802B00000
	TO-220, Power Cooler, With Pins, Black	1.65 x 1.00 x 2.00 (41.91 x 25.40 x 50.80)	3.4	HS374-ND◆	2.01	1.82	1.41	529902B02500G
	TO-220, Power Cooler, With Pins, 9.0W, Black	1.38 x .50 x 2.50 (35.05 x 12.70 x 63.50)	8.0	HS386-ND◆	1.54	1.39	1.08	531302B02500G
	TO-220, Power Cooler, Screw Mount, Gold	1.38 x .50 x 2.50 (35.05 x 12.70 x 63.50)	8.0	HS133-ND	1.86	1.68	1.31	531302C00000
	TO-220, Power Cooler, With Pins, Gold	1.38 x .50 x 2.50 (35.05 x 12.70 x 63.50)	8.0	HS133-P-ND	1.73	1.56	1.22	531302C02500
	TO-220, Power Cooler, With Pins, Black	1.65 x 1.00 x 2.50 (41.91 x 25.40 x 63.50)	3.8	HS380-ND◆	1.88	1.69	1.32	530002B02500G
	TO-218, Power Cooler, With Pins, 10W, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS347-ND◆	1.35	1.22	.95	513201B02500G
	TO-218, Power Cooler, With Pins, 20W, Black	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	3.7	HS349-ND◆	1.68	1.51	1.18	529801B02500G
	TO-218, Vertical Power, 10W, With Pins, Black	1.65 x 1.00 x 2.50 (41.91 x 25.4 x 63.50)	2.5	HS385-ND◆	2.10	1.89	1.47	530001B02500G
18	TO-218, Quick Attach, With Pins, 12W, Black	1.95 x .50 x 1.97 (49.53 x 12.70 x 50.04)	6.5	HS340-ND◆	1.37	1.24	.96	592201B03400G
19	TO-220, Staggered High Rise Fins, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	16.8	HS342-ND◆	1.88	1.70	1.32	530402B00150G
	TO-218, Twisted High Rise Fins, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	6.3	HS109-ND	1.91	1.72	1.34	530101B00150
	TO-218, Twisted High Rise Fins, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	6.3	HS335-ND◆	1.88	1.70	1.32	530101B00150G
20	TO-218, Clip-On, Vertical PC Mount, With Standard Tabs, Black	1.00 x .50 x 1.22 (25.40 x 12.70 x 30.99)	11.5	HS234-ND	1.55	1.40	1.09	566010B03400
	TO-218, Clip-On, Vertical PC Mount, With Standard Tabs, Black	1.00 x .50 x 1.22 (25.40 x 12.70 x 30.99)	11.5	HS377-ND◆	1.53	1.38	1.07	566010B03400G

***** Dielectric Coating Unless otherwise noted, all heat sinks are black anodized aluminum. ◆ ***RoHS Compliant***

(Continued)

Fig. 26

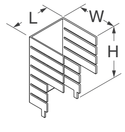

Fig. 27

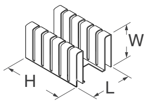

Fig. 28

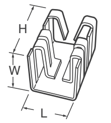

Fig. 29

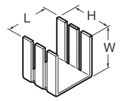

Fig. 30

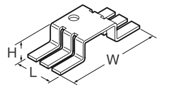

Fig. 31

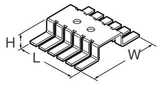

Fig. 32

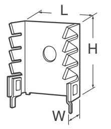

Fig. 33

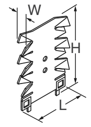

Fig. 34

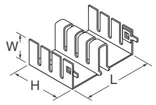

Fig. 35

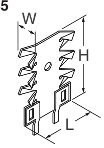

Fig. 36

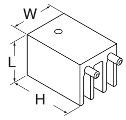

Shown with optional PC Pins

Fig. 37

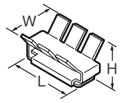

Fig. 38

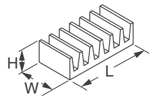

Fig. 39

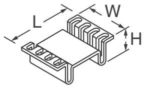

Fig.	Description	Dimensions – Inch (mm) L x W x H	Thermal Resistance °C/W	Digi-Key Part No.	Price Each			Aavid Part No.
					1	10	100	
21	TO-202, Clip-On Cooler, 5W, Black	.90 x 1.02 x .39 (22.86 x 25.91 x 9.91)	16.8	HS119-ND◆	.63	.45	.32	574204B00000G
22	TO-220. Twisted High Rise Fins,With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	6.3	HS343-ND◆	1.88	1.70	1.32	530102B00150G
	TO-220, Dual Mount, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	4.4	HS383-ND◆	2.13	1.92	1.50	530162B00162G
23	TO-220, 2W Extended Cap For HS112 and HS114, Black	1.75 x .70 x .50 (44.45 x 17.78 x 12.70)	15.6	HS113-ND◆	.46	.33	.23	507102B00000G
24	TO-220, Vertical Mount Clip-On Cooler, With 1 Mount Hole, Black	.75 x .86 x .395 (19.05 x 21.84 x 10.03)	23.2	HS111-ND◆	.42	.30	.21	574102B00000G
	TO-220, Vertical Mount Clip-On Cooler, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	21.2	HS198-ND◆	.41	.30	.21	574502B00000
	TO-220, Horizontal Mount Clip-On PC Mount, With Std. Tabs, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	23.2	HS355-ND◆	.76	.69	.54	574402B03200G
	TO-220, Vertical Mount Clip-On, PC Mount, w/Long Tabs, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	21.2	HS357-ND◆	.57	.51	.40	574502B03300G
	TO-220, Vertical Mount Clip-On, PC Mount, w/Stepped Tabs, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	21.2	HS358-ND◆	.50	.46	.36	574502B03700G
	TO-220, Vertical Mount Clip-On, PC Mount, w/Long Tabs, Black	.86 x .395 x 1.375 (21.84 x 10.03 x 34.93)	16.0	HS360-ND◆	.78	.70	.55	574902B03300G
	TO-220, Vertical Mount Clip-On, PC Mount, w/Stepped Tabs, Black	.86 x .395 x .69 (21.84 x 10.03 x 17.53)	21.6	HS359-ND◆	.72	.65	.51	574602B03700G
	TO-220, Vertical Mount Clip-On, PC Mount, w/Standard Tabs, Black	.86 x .395 x 1.375 (21.84 x 10.03 x 34.93)	16.0	HS205-ND	1.03	.93	.72	574902B04300
	TO-220, Vertical Mount Clip-On, PC Mount, w/Standard Tabs, Black	.86 x .395 x 1.375 (21.84 x 10.03 x 34.93)	16.0	HS361-ND◆	1.07	.96	.75	574902B04300G
25	TO-220, Snap Down, 5W, Black	.75 x 1.12 x .435 (19.05 x 28.45 x 11.05)	16.9	HS116-ND◆	.56	.45	.33	575102B00000G
	TO-220, Snap-Down With Built-In Clip, For Standard TO-220s, Black	.975 x .44 x .75 (24.77 x 11.18 x 19.05)	16.8	HS220-ND◆	.50	.36	.26	579302B00000G
	TO-220, Snap-Down With Built-In Clip, For Tapered TO-220s, Black	.975 x .44 x .75 (24.77 x 11.18 x 19.05)	16.8	HS221-ND◆	.55	.40	.28	579402B00000G
26	TO-220, High Performance PC Mount, With Tabs, Black	1.00 x 1.00 x 1.675 (25.40 x 25.40 x 42.55)	10.0	HS370-ND◆	1.11	1.01	.78	590102B03600G
27	TO-220, SlimLine High Performance, Horizontal Mount, Black	1.00 x .787 x 1.45 (25.40 x 19.99 x 36.83)	12.4	HS193-ND◆	.71	.64	.50	551002B00000G
28	TO-220, Clip-On, Horizontal PC Mount, With Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS341-ND◆	.60	.54	.42	576802B03100G
	TO-220, Clip-On, 5W, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS121-ND◆	.58	.42	.29	576802B00000G
	TO-220, Clip-On, 5W, Black	.50 x .50 x .60 (12.70 x 12.70 x 15.24)	26.8	HS333-ND◆	.73	.53	.37	591202B00000G
	TO-220, Clip-On, Vertical PC Mount, With Wide Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS364-ND◆	.63	.57	.44	576802B03700G
	TO-220, Clip-On, Vertical PC Mount, With Long Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS365-ND◆	.53	.48	.37	576802B03900G
	TO-220, Clip-On, Vertical PC Mount, With Standard Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS366-ND◆	.61	.56	.43	576802B04100G
	TO-220, Clip-On, Vertical PC Mount, With SureLock Tabs, Black	.57 x .50 x .75 (14.48 x 12.70 x 19.05)	26.8	HS371-ND◆	.78	.70	.55	591302B02800G
	TO-220, Clip-On, Vertical PC Mount, With Standard Tabs, Black	.75 x .50 x .50 (19.05 x 12.70 x 12.70)	18.8	HS337-ND◆	.57	.52	.40	576802B04000G
	TO-220, Clip-On, Vertical PC Mount, With SureLock Tabs, Black	.95 x 1.00 x 1.22 (24.13 x 25.40 x 30.99)	11.5	HS381-ND◆	1.59	1.43	1.12	566010B02800G
29	TO-220, Economy Power Cooler, Lightweight, Black	1.00 x .50 x .71 (25.40 x 12.70 x 18.03)	20.3	HS189-ND◆	.46	.33	.23	530714B00000G
	TO-220, Dual Power Cooler, 10W, Black	.78 x .85 x 1.45 (19.81 x 21.59 x 36.83)	6.4	HS104-2-ND◆	.65	.52	.39	504222B00000G
	TO-220, Power Cooler, 6W, Black	.70 x .70 x .85 (17.78 x 17.78 x 21.59)	15.6	HS104-1-ND◆	.47	.34	.24	504102B00000G
30	TO-220, Basic Manual Attachment, Low Profile, Black	.70 x 1.75 x .380 (17.78 x 44.45 x 9.65)	15.6	HS112-ND◆	.42	.30	.21	507002B00000G
31	TO-220, Dual Basic Manual Attachment, Horizontal Mount, Black	1.45 x 1.75 x .375 (36.83 x 44.45 x 9.53)	9.6	HS114-ND◆	.76	.55	.38	507222B00000G
32	TO-220, Twisted Fin, Vertical PC Mount, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.4	HS336-ND◆	.85	.77	.60	593002B03400G
	TO-220, Twisted Fin, With SureLock Tabs and Kool Clip, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.0	HS375-ND◆	1.41	1.28	.99	534202B02853G
	TO-220, Twisted Fin, Vertical, With Tabs and Kool Clip, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.0	HS376-ND◆	1.68	1.51	1.18	534202B33453G
33	TO-220, Spacesaver, Vertical Mount, With Tabs, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	10.0	HS225-ND	1.37	.98	.69	593202B03500
	TO-220, Spacesaver, Vertical Mount, With Tabs, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	10.0	HS373-ND◆	.96	.87	.68	593202B03500G
	TO-220, Spacesaver, Vertical Mount, With Kool Clip/Tabs, Black	1.38 x .48 x 2.00 (35.05 x 12.19 x 50.80)	10.4	HS192-ND	1.04	.94	.73	534302B03553
34	TO-220, Dual Basic Manual Attachment, Vertical Mount, Black	1.48 x .50 x 1.03 (37.59 x 12.70 x 26.16)	13.2	HS369-ND◆	1.03	.93	.72	578622B03200G
35	TO-220, Spacesaver Vertical Mount, With Tabs, Black	.875 x .25 x 1.25 (22.23 x 6.35 x 31.75)	22.0	HS372-ND◆	.78	.71	.55	592502B03400G
	TO-220, Spacesaver Vert. Mnt, With Kool Clip-SureLock Tabs, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.8	HS238-ND	1.40	1.27	.99	594302B02853
	TO-220, Spacesaver Vert. Mnt, With Kool Clip-SureLock Tabs, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.8	HS379-ND◆	1.38	1.25	.97	594302B02853G
36	TO-220, Vertical Mount, 4.3W, Black	.64 x .64 x 1.00 (16.26 x 16.26 x 25.40)	17.4	HS300-ND◆	1.46	1.32	1.03	581002B00000
	TO-220, Vertical Mount, 4.3W, With Pins, Black	.64 x .64 x 1.00 (16.26 x 16.26 x 25.40)	17.4	HS387-ND◆	1.49	1.34	1.05	581002B02500G
	TO-220, Vertical Mount, 4.3W, With Pins, Gold	.64 x .64 x 1.00 (16.26 x 16.26 x 25.40)	17.4	HS302-ND	1.90	1.71	1.33	581002C02500
	TO-220, Vertical Mount, 2.5W, Black	.64 x .64 x 1.50 (16.26 x 16.26 x 38.10)	16.8	HS303-ND◆	1.42	1.28	1.00	581102B00000
	TO-220, Vertical Mount, 2.5W, With Pins, Black	.64 x .64 x 1.50 (16.26 x 16.26 x 38.10)	16.8	HS388-ND◆	1.54	1.39	1.08	581102B02500G
	TO-220, Vertical Mount, 2.5W, With Pins, Black	.64 x .64 x 2.00 (16.26 x 16.26 x 50.80)	12.8	HS389-ND◆	2.06	1.86	1.45	581202B02500G
37	Dip Cooler, 14 or 16 Pin IC, Clip-On, Black	.887 x .60 x .41 (22.53 x 15.24 x 10.41)	38.0	HS179-ND◆	.50	.39	.30	580200B00000G
	Dip Cooler, 24 Pin IC, Clip-On, Black	1.46 x 1.008 x .58 (37.08 x 25.60 x 14.73)	20.0	HS182-ND◆	.76	.69	.54	580500B00000G
38	Dip Cooler, 14-16 Pin, Glue-On, Black	.73 x .25 x .19 (18.54 x 6.35 x 4.83)	62.5	HS227-ND◆	.72	.65	.51	501200B00000G
	Dip Cooler, 24 Pin IC, Glue-On, Black	1.25 x .53 x .19 (31.75 x 13.47 x 4.83)	44.0	HS273-ND◆	.81	.73	.57	508500B00000G
	Dip Cooler, 40 Pin IC, Glue-On, Black	2.0 x .53 x .19 (50.8 x 13.47 x 4.83)	28.0	HS274-ND◆	1.50	1.36	1.06	508700B00000G

***** Dielectric Coating Unless otherwise noted, all heat sinks are black anodized aluminum. ◆ ***RoHS Compliant***

Fig.	Description	Dimensions – Inch (mm) L x W x H	Digi-Key Part No.	Cut Tape Price Each		Tape and Reel Pricing†		Aavid Part No.
				1	10	250	500	
39	SMT D2 Pak Heat Sink, Auto-Insertable, Pre-Tinned	1.03 x .50 x .40 (26.16 x 12.70 x 10.16)	HS338CT-ND◆	.91	.82	149.33	271.50	573300D00010G
	SMT D3 Pak Heat Sink, Auto-Insertable, Pre-Tinned	1.22 x .50 x .40 (30.99 x 12.70 x 10.16)	HS339CT-ND◆	.95	.86	156.34	284.25	573400D00010G

† For Tape and Reel part number, change the CT-ND to TR-ND ◆ ***RoHS Compliant***

AAVID THERMALLOY

BGA Heat Sinks

PCB Hole Patterns

Aavid Thermalloy's innovative BGA heat sinks include standard solutions to support the most demanding applications.

Features: • Flat base • Light weight • Long-term reliability

Fig. 1

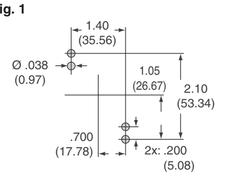

Fig. 2

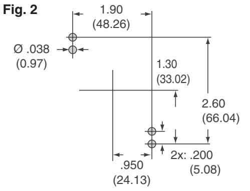

Fig. 3

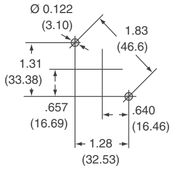

Fig. 4

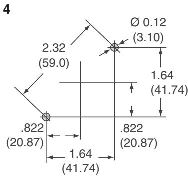

Fig. 5

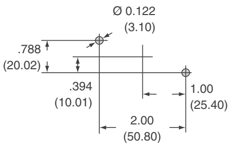

Solder Anchor Attachment Method

Features and Benefits:
- New unique wire clip design allows for complete reworkability after assembly without damage to the BGA package or PC Board
- Minimal PC Board real estate is required for mounting
- Solder Anchors provide the most rugged mounting in the industry
- Each Heat Sink utilizes a phase change pad as the interface for optimal thermal performance

Finish: Black Anodize

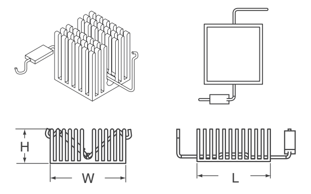

§ Solder Anchors Sold Separately

Fig.	Width	Length	Height	Therm. Res. Nat.†	Therm. Res. Forced‡	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
1	23.0	23.0	25.0	19.7	6.37	HS329-ND	3.55	3.20	2.49	374224B60023G
	27.0	27.0	25.0	16.5	5.47	HS330-ND	3.89	3.50	2.72	374524B60023G
2	35.0	35.0	18.0	15.3	5.15	HS326-ND	3.16	2.85	2.22	374724B60024G
	35.0	35.0	25.0	12.0	4.27	HS331-ND	4.63	4.17	3.25	374824B60024G
	40.0	40.0	10.0	20.3	6.46	HS327-ND	4.64	4.18	3.25	374924B60024G
	40.0	40.0	18.0	12.2	4.34	HS328-ND	4.85	4.37	3.40	375024B60024G
	40.0	40.0	25.0	10.3	3.83	HS332-ND	5.49	4.95	3.85	375124B60024G
Solder Anchor						HS400-ND	.48	.44	.34	125700D00000G

§ Solder anchors must be soldered to the PCB prior to attaching the heat sink clip.
† Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.

Push Pin Attachment Method

Features and Benefits:
- All Heat Sinks utilize industry standard hole patterns
- Plastic push pins are standard. Consult Aavid Thermalloy for versions available with brass push pins for more rugged applications
- Minimal diameter holes are necessary for mounting to PC Board

Finish: Black Anodize

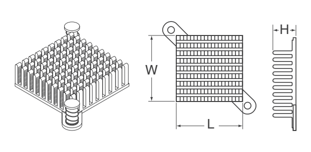

Fig.	Width	Length	Height	Therm. Res. Nat.†	Therm. Res. Forced‡	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
3	28.5	28.5	10.0	30.6	9.26	HS306-ND	2.58	2.33	1.81	10-6327-01 REV B-G
4	37.4	37.4	6.0	32.6	9.91	HS308-ND§	3.39	3.06	2.38	372924M02000G
5	41.4	45.2	11.7	14.2	4.91	HS307-ND	3.24	2.92	2.27	10-L4LB-11G

† Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.
§ Finish: Green Anodize

Clip Attachment Method

Features and Benefits:
- A unique clip eliminates the need for mounting holes in the PC Board
- Each Heat Sink utilizes a Phase Change Pad as the interface for optimal thermal performance
- The clips unique design eliminates the need for thermal tape attachment

Finish: Black Anodize

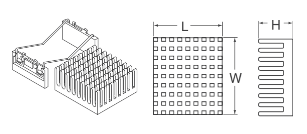

Width	Length	Height	Therm. Res. Nat.†	Therm. Res. Forced‡	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
34.5	31.4	15.6	19.7	6.30	HS309-ND◆	5.57	5.02	3.90	2519B-EP11-BGS5G
38.1	38.0	10.2	22.1	6.94	HS310-ND◆	5.47	4.93	3.83	2522B-EP04-BGS5G

† Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.
◆ ***RoHS Compliant***

Tape Attachment Method

Features and Benefits:
- Tape mounted versions eliminate the need for mounting holes in the PC Board
- These Heat Sinks can be used with either plastic or metal/ceramic BGA Packages
- These Heat Sinks are compatible with Ther-a-grip Tapes

Finish: Black Anodize

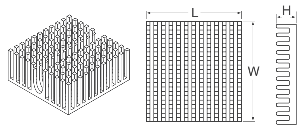

Tape Surface	Width	Length	Height	Therm. Res. Nat.†	Therm. Res. Forced‡	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
Plastic	23.0	23.0	10.0	40.0	11.69	HS316-ND◆	2.71	2.44	1.90	374024B00035G
Plastic	23.0	23.0	18.0	23.4	7.39	HS317-ND◆	2.77	2.49	1.94	374124B00035G
Plastic	27.0	27.0	10.0	30.6	9.35	HS318-ND◆	3.19	2.88	2.24	374324B00035G
Plastic	27.0	27.0	18.0	20.3	6.46	HS319-ND◆	3.41	3.08	2.39	374424B00035G
Plastic	30.0	30.0	9.4	29.4	9.11	HS390-ND◆	3.43	3.09	2.41	335824B00034G
Metal	35.0	35.0	7.0	31.9	9.67	HS313-ND	3.73	3.36	2.61	371824B00032
Metal	35.0	35.0	7.0	31.9	9.67	HS392-ND◆	3.85	3.47	2.70	371824B00032G
Plastic	35.0	35.0	7.0	31.9	9.67	HS393-ND◆	4.03	3.63	2.82	371824B00034G
Metal	35.0	35.0	10.0	23.4	7.55	HS395-ND◆	3.82	3.44	2.68	374624B00032G
Plastic	35.0	35.0	10.0	23.4	7.55	HS321-ND◆	4.26	3.84	2.99	374624B00035G
Metal	35.0	35.0	18.0	15.3	5.15	HS322-ND	3.83	3.45	2.68	374724B00032
Metal	35.0	35.0	18.0	15.3	5.15	HS396-ND◆	3.77	3.40	2.64	374724B00032G
Plastic	35.0	35.0	18.0	15.3	5.15	HS323-ND◆	3.93	3.54	2.75	374724B00035G
Metal	37.4	37.4	6.0	32.6	9.91	HS394-ND◆	3.93	3.54	2.76	373324M00032G
Metal	40.0	40.0	10.0	20.3	6.46	HS397-ND◆	4.29	3.86	3.01	374924B00032G
Metal	40.0	40.0	18.0	12.2	4.34	HS398-ND◆	5.04	4.54	3.53	375024B00032G
Metal	40.1	40.0	11.4	18.4	6.02	HS312-ND	4.03	3.63	2.83	364424B00032
Metal	40.1	40.0	11.4	18.4	6.02	HS391-ND◆	4.17	3.76	2.93	364424B00032G

† Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.
◆ ***RoHS Compliant***

Panasonic®

"PGS" (Pyrolytic Graphite Sheet) Heat Sink Sheets

PGS is a thermal interface material which is very thin, synthetically made, has high thermal conductivity, and is made from a highly oriented graphite polymer film. It is ideal for providing thermal management/heat-sinking in limited spaces or to provide supplemental heat-sinking in addition to conventional means. This material is flexible and can be cut into customizable shapes.

Features:
- Excellent Thermal Conductivity (2 ~ 4 times as high as copper, 3 ~ 6 times as high as aluminum) • Lightweight: Specific Gravity: 0.85 ~ 2.1 g/cm3 (1/4 ~ 1/10 of copper, 1/1.3 ~ 1/3 of aluminum in density) • Flexible and easy to be cut or trimmed (withstands repeated bending) • Low Thermal Resistance

Application Examples:
- Notebook PCs, DVDs, DVCs, Mobile Phones • Semiconductor Manufacturing Equipment (Sputtering, Dry Etching, Steppers) • Optical Communications Equipment

Characteristics	Specification		
Thickness	0.1±0.03mm	0.07±0.015mm	0.025±0.01mm
Density	0.85 g/cm3	1.1 g/cm3	2.1 g/cm3
Thermal Conductivity (a-b plane)	600 ~ 800 W/(m·K)	750 ~ 950 W/(m·K)	1500 ~ 1700 W/(m·K)
Electrical Conductivity	10000 S/cm	10000 S/cm	20000 S/cm
Expansion Coefficient (a-b plane)	9.3×10^{-7} 1/K		
Expansion Coefficient (c axis)	3.2×10^{-5} 1/K		
Heat Resistance	400°C		
Bending (angle, R5)	10000 cycles		

Dimensions L x W (mm)	Digi-Key Part No.	Price Each	Panasonic Part No.
125 x 180	P11438-ND	104.48	EYG-S131810
125 x 90	P11439-ND	57.46	EYG-S091310
115 x 180	P13689-ND	71.38	EYG-S121807
115 x 180	P13691-ND	71.38	EYG-S121803
90 x 115	P12726-ND	36.44	EYG-S091210
90 x 115	P13688-ND	35.69	EYG-S091207
90 x 115	P13690-ND	35.69	EYG-S091203
60 x 90	P11440-ND	29.88	EYG-S060910
57 x 90	P12727-ND†	33.53	EYG-M060910SS
57 x 90	P12728-ND‡	19.92	EYG-A060910P
57 x 90	P12729-ND‡	19.92	EYG-A060910B

† With Silicon ‡ With Tape

ITW Chemtronics®

Heat Sink Grease

For fast heat transfer from components.

Features:
- Nonflammable • Noncorrosive • Silicon • Will not dry out, harden or melt • 5 oz. tube • Meets MIL-C-47113
- Stable from: -40°F ~ 392°F (-40°C ~ 200°C)

Digi-Key Part No.	Price Each 1	25	100	ITW Chemtronics Part No.
CT40-5-ND	19.19	17.34	16.19	CT40-5

Heat Sinks

Fig. 1

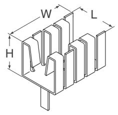

Fig. 2

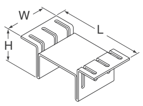

Fig. 3

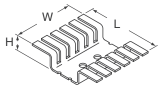

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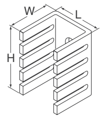

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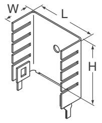

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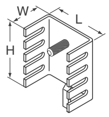

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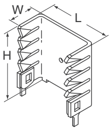

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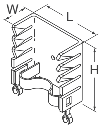

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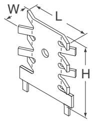

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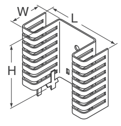

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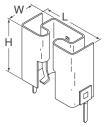

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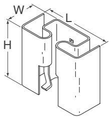

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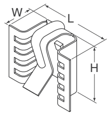

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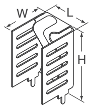

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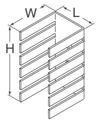

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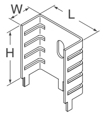

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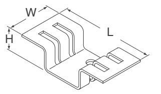

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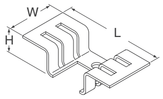

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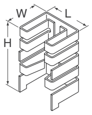

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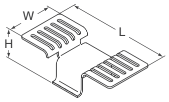

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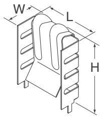

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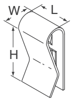

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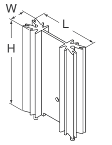

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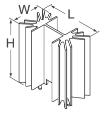

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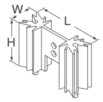

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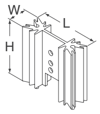

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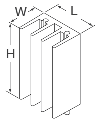

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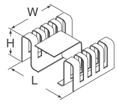

Fig.	Description	Dimensions – mm W x L x H	Mounting Type	Digi-Key Part No.	Price Each 1	10	100	Comair-Rotron Part No.
1	TO-220/TO-262; Aluminum; 1.2mm thick with Black Anodized Finish, Integrated Spring	19.0 x 12.8 x 12.7	1 Solderable Tab	CR467-ND	.53	.48	.37	831402B00000
2	D^{2}PAK/TO-263; Copper, 0.6mm thick with Tin Plated Finish	12.7 x 26.2 x 9.9	SMT	CR471-ND	.58	.52	.41	832700T00000
	DPAK/TO-252; Copper, 0.6mm thick with Tin Plate Finish	22.9 x 8.0 x 10.2	SMT	CR496-ND	.60	.54	.42	834100T00000
3	TO-220; Aluminum, 1.0mm thick with Black Anodized Finish	36.8 x 44.5 x 9.4	Device Leads	CR493-ND	.50	.45	.35	824302B00000
4	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	12.7 x 13.2 x 19.1	Device Leads	CR472-ND	.40	.36	.28	821202B00000
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	9.5 x 13.2 x 19.1	Device Leads	CR475-ND	.35	.32	.25	821102B00000
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	9.5 x 19.0 x 19.0	Device Leads	CR482-ND	.53	.48	.37	821502B00000
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	6.4 x 13.2 x 19.1	Solderable Device Leads	CR488-ND	.35	.32	.25	821002B00000
5	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	12.7 x 13.2 x 19.1	1 Solderable Tab	CR473-ND†	.53	.48	.37	821202B04000
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	12.7 x 25.4 x 30.0	2 Solderable Tabs	CR474-ND†	.75	.68	.53	822202B00000
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	9.5 x 13.2 x 19.1	1 Solderable Tab	CR477-ND†	.50	.45	.35	821102B04000
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	6.4 x 13.3 x 19.1	1 Solderable Tab	CR489-ND†	.50	.45	.35	821002B04000
6	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	9.5 x 13.2 x 19.1	1 Solderable Tab	CR476-ND	1.08	.97	.76	821102B04005
7	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	25.4 x 12.7 x 30.0	2 Solderable Tabs	CR478-ND	.78	.70	.55	825402B03400
8	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	25.4 x 12.7 x 30.0	2 Solderable Tabs	CR479-ND	.85	.77	.60	825502B03453
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	25.4 x 12.7 x 30.0	2 Board Locking Tabs	CR480-ND	1.25	1.13	.88	825502B02853
9	TO-220; Aluminum, 1.0mm thick with Black Anodized Finish	5.4 x 22.5 x 30.3	2 Solderable Tabs	CR481-ND	.70	.63	.49	811102B00000
10	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	24.1 x 48.3 x 49.5	2 Solderable Tabs	CR483-ND‡	1.33	1.20	.93	825802B05300
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	11.9 x 33.0 x 36.8	2 Solderable Tabs	CR500-ND‡	.95	.86	.67	825702B05300
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	9.7 x 44.5 x 36.8	2 Solderable Tabs	CR503-ND‡	1.63	1.47	1.14	826002B05300
	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	24.1 x 48.3 x 23.6	2 Solderable Tabs	CR507-ND‡	.95	.86	.67	825902B05300
11	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	10.0 x 21.2 x 19.0	2 Solderable Tabs	CR484-ND†	.58	.52	.41	833202B03300
	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	10.0 x 21.2 x 19.0	2 Solderable Step Tabs	CR486-ND†	.55	.50	.39	833202B03700
	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	10.0 x 21.2 x 19.0	2 Solderable Tabs	CR487-ND†	.68	.61	.48	833202B04800
12	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	10.0 x 21.2 x 19.0	Device Leads	CR485-ND	.40	.36	.28	833202B00000
13	TO-220; Aluminum, 1.0mm thick with Black Anodized Finish, Integrated Spring	9.5 x 22.8 x 17.8	Solderable Device Leads	CR490-ND	.50	.45	.35	833502B00000
14	TO-220; Copper, 0.6mm thick with Tin Plate Finish, Integrated Spring	13.1 x 13.2 x 24.0	Solderable Device Leads	CR491-ND	.90	.81	.63	833802T00000
15	TO-220; Aluminum, 1.0mm thick with Black Anodized Finish	21.6 x 19.8 x 36.8	Solderable Device Leads	CR492-ND	.48	.43	.34	821702B00000
16	TO-220; Aluminum, 1.2mm thick with Black Anodized Finish	12.7 x 25.4 x 30.0	2 Mechanical Tabs	CR494-ND†	.45	.41	.32	821902B00000
	TO-220; Copper, 1.2mm thick with Black Paint Finish	12.7 x 25.4 x 30.0	3 Solderable Tabs	CR497-ND†	1.98	1.78	1.39	8256BPT00000
	TO-220; Copper, 1.2mm thick with Tin Plate Finish	12.7 x 25.4 x 30.0	3 Solderable Tabs	CR498-ND†	1.13	1.02	.79	825600T00000
17	TO-220; Aluminum, 1.0mm thick with Black Anodized Finish	17.8 x 44.5 x 9.5	Device Leads	CR499-ND	.98	.88	.69	822802B00000
18	TO-220; Aluminum, 1.0mm thick with Black Anodized Finish	17.8 x 44.5 x 12.7	Device Leads	CR502-ND	.38	.34	.27	822812B00000
19	TO-220/TO-262; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	12.7 x 12.8 x 19.0	1 Solderable Tab	CR465-ND†	.50	.45	.35	831302B00000
	TO-220/TO-262; Aluminum; 1.2mm thick with Black Anodized Finish, Integrated Spring	12.7 x 12.8 x 19.0	Device Leads	CR466-ND†	.45	.41	.32	831502B00000
	TO-220/TO-262; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	12.7 x 12.8 x 19.0	1 Solderable Tab	CR468-ND†	.50	.45	.35	831502B03900
	TO-220/TO-262; Aluminum, 1.2mm thick with Black Anodized Finish, Integrated Spring	12.7 x 12.8 x 19.0	1 Solderable Step Tab	CR469-ND†	.55	.50	.39	831502B03700
	TO-220/TO-262; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	12.7 x 12.7 x 19.0	1 Solderable Spring Tab	CR501-ND†	.70	.63	.49	833302B02800
20	DPAK/TO-263/SO-10/MO-184; Copper, 0.6mm thick with Tin Plate Finish	15.0 x 25.9 x 9.5	SMT	CR504-ND	1.15	1.04	.81	833900T00000
21	TO-220; Copper, 0.6mm thick with Tin Plate Finish, Integrated Spring	9.5 x 22.0 x 28.0	2 Solderable Tabs	CR506-ND	.90	.81	.63	833702T00000
22	TO-220; Aluminum, 0.8mm thick with Black Anodized Finish, Integrated Spring	5.0 x 20.0 x 25.0	Device Leads	CR508-ND	.70	.63	.49	832202B00000
23	TO-218/TO-220/TO-247; Aluminum with Black Anodized Finish	12.7 x 34.9 x 50.8	2 Solderable Pins	CR509-ND	1.23	1.11	.86	411320B02500
24	TO-218/TO-220/TO-247; Extruded Aluminum with Black Anodized Finish	25.0 x 41.6 x 38.1	2 Solderable Pins	CR510-ND‡	1.53	1.38	1.07	411616B02500
	TO-218/TO-220/TO-247; Extruded Aluminum with Black Anodized Finish	25.0 x 41.6 x 38.1	2 Solderable Pins	CR511-ND‡	1.53	1.38	1.07	411615B02500
	TO-218/TO-220/TO-247; Extruded Aluminum with Black Anodized Finish	25.0 x 41.6 x 50.8	2 Solderable Pins	CR512-ND‡	1.90	1.71	1.33	411621B02500
25	TO-202/TO-220; Extruded Aluminum with Black Anodized Finish	12.7 x 34.9 x 25.4	2 Solderable Pins	CR513-ND	1.15	1.04	.81	411910B02500
26	TO-202/TO-220; Extruded Aluminum with Black Anodized Finish	12.7 x 34.9 x 38.1	2 Solderable Pins	CR514-ND	1.23	1.11	.86	411915B02500
27	TO-218/TO-220; Extruded Aluminum with Black Anodized Finish	16.0 x 16.5 x 25.4	2 Solderable Pins	CR515-ND‡	1.25	1.13	.88	412310B02500
	TO-218/TO-220; Extruded Aluminum with Black Anodized Finish	16.0 x 16.5 x 38.1	2 Solderable Pins	CR516-ND‡	1.43	1.29	1.00	412315B02500
	TO-218/TO-220; Extruded Aluminum with Black Anodized Finish	16.0 x 16.5 x 50.8	2 Solderable Pins	CR517-ND‡	1.73	1.56	1.21	412320B02500
28	DPAK/TO-263; Copper, 0.6mm thick with Tin Plate Finish	19.4 x 25.4 x 11.4	SMT	CR518-ND	1.05	.95	.74	834000T00000

† See data sheets for specific Board Mount ‡ See data sheets for specific Component Mounting Hole Patterns

Heat Sinks

Wakefield Engineering is recognized as a worldwide leader in innovative thermal management solutions. Their products range from board level heat sinks for both surface mount and thru-hole, to fan mounted heat sinks for microprocessors and CPUs. Wakefield Engineering offers a single source for all of your thermal requirements. DeltaPads are replacements to heat sink grease but without any mess. They are heat conducting, electrically isolating pads to go between the heat sink and your semiconductor device. TO-220 heatsinks will also fit TO-202 and TO-126 packages.

Fig. 1

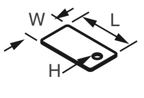

Fig. 2

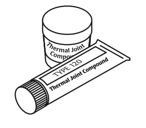

Fig. 3

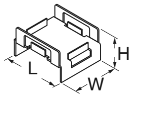

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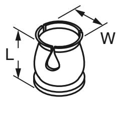

Fig. 5

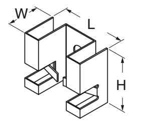

Fig. 6

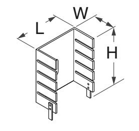

Fig. 7

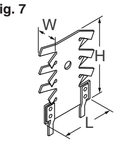

Fig. 8

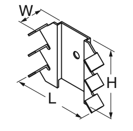

Fig. 9

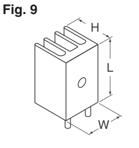

Fig. 10

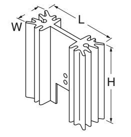

Fig. 11

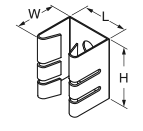

Fig. 12

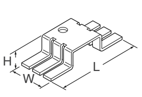

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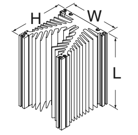

Fig. 14

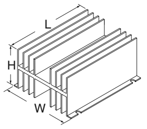

Fig. 15

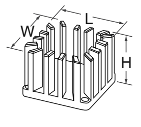

Fig. 16

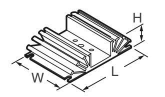

Fig. 17

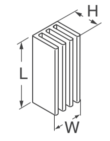

Fig. 18

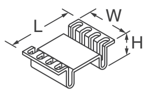

Fig. 19

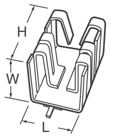

Fig. 20

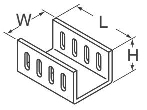

Fig. 21

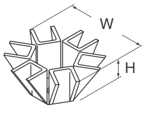

Fig. 22

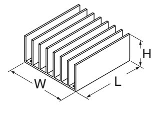

Fig. 23

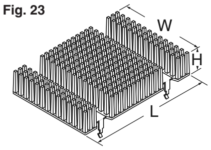

Fig. 24

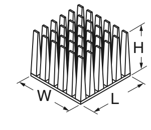

Fig. 25

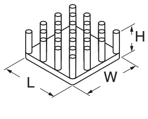

		Dimensions – mm	Digi-Key	Price Each			Wakefield
Fig.	Description	L x W x H	Part No.	1	10	100	Part No.
1	DeltaPad Thermal Pad TO-220 No Adhesive (.18mm)	18.0 x 12.7 x 3.6 dia.	345-1000-ND◆	.63	.45	.32	173-7-220P
	DeltaPad Thermal Pad TO-220, Adhesive (.18mm)	19.1 x 12.7 x 3.7 dia.	345-1079-ND◆	.84	.60	.42	173-7-240A
	DeltaPad Thermal Pad TO-220, No Adhesive (.23mm)	19.1 x 12.7 x 3.2 dia.	345-1080-ND◆	.53	.38	.27	173-9-230P
	DeltaPad Thermal Pad TO-220, No Adhesive (.23mm)	19.1 x 12.7 x 3.7 dia.	345-1001-ND◆	.95	.68	.48	173-9-240P
	Kapton Thermal Pad, TO-220, No Adhesive (.15mm)	18.0 x 12.7 x 3.6 dia.	345-1002-ND◆	.49	.35	.25	175-6-220P
	Kapton Thermal Pad TO-220, No Adhesive (.15mm)	19.1 x 12.7 x 3.2 dia.	345-1003-ND◆	.39	.28	.20	175-6-230P
	Kapton Thermal Pad TO-220, No Adhesive (.15mm)	19.1 x 12.7 x 3.7 dia.	345-1004-ND◆	.42	.30	.21	175-6-240P
	Kapton Thermal Pad TO-220, No Adhesive (.15mm)	21.8 x 18.8 x 4.1 dia.	345-1005-ND◆	.67	.48	.34	175-6-280P
2	Silicon Thermal Grease, 4 gram Plastic Pack	—	345-1006-ND◆	5.04	3.36	2.61	120-SA
	Silicon Thermal Grease, 2 Oz. Jar	—	345-1007-ND◆	13.02	8.68	6.73	120-2
	Silicon Thermal Grease, 5 Oz. Tube	—	345-1008-ND◆	24.43	17.10	14.66	120-5
	Silicon Thermal Grease, 8 Oz. Jar	—	345-1009-ND◆	29.78	20.85	17.87	120-8
	Silicon Thermal Grease, 5 Lbs. Can	—	345-1010-ND◆	147.95	103.57	88.77	120-80
	Synthetic Non-Silicon Thermal Compound 4 Oz Tube	—	345-1011-ND◆	26.23	18.36	15.74	126-4
3	D-Pack/SOT-23 Heat Sink, Pretinned, Autoinsertable	18.80 x 15.24 x 9.14	345-1012-ND	.53	.38	.27	217-36CT6
	D-Pack/SOT-23 Heat Sink, Pretinned, Autoinsertable	18.80 x 15.24 x 9.14	345-1099-ND◆	.45	.30	.24	217-36CTE6
4	TO-5 Clip-On Cup Style With 4-40 Thd Base	9.40 x 9.65 dia.	345-1013-ND◆	14.94	9.96	7.72	260-4T5E
5	TO-220, Self-Locking, Horizontal/Vertical Mount, Black	25.40 x 12.70 x 21.59	345-1016-ND◆	.67	.48	.34	235-85AB
6	TO-220, Vertical Mount Wave-Solderable, With Tabs, Black	25.40 x 12.70 x 29.97	345-1018-ND	1.89	1.35	.95	287-1AB
	TO-220, Low Cost Horizontal/Vertical Mount, Black	25.40 x 12.70 x 18.03	345-1019-ND◆	.42	.30	.21	289-AB
	TO-220, Dual Low Cost Horizontal/Vertical Mount, Black	25.40 x 12.70 x 29.97	345-1020-ND◆	.60	.43	.30	290-1AB
	TO-220, Dual Mount Low Cost, Black	25.40 x 12.70 x 29.97	345-1021-ND◆	.60	.43	.30	290-2AB
	TO-220, Low Cost Horizontal/Vertical Mount, Black	19.05 x 9.52 x 19.05	345-1022-ND◆	.56	.40	.28	273-AB
	TO-220, Low Cost Horizontal/Vertical Mount, Black	13.21 x 9.52 x 19.05	345-1023-ND	.42	.30	.21	274-1AB
	TO-220, Vertical Mount, Black	25.4 x 12.7 x 30.0	345-1081-ND	1.12	.80	.56	206-1PABH
	TO-220, Wave-Solderable Low-Cost Heat Sinks	25.4 x 12.7 x 30.0	345-1088-ND	1.89	1.35	.95	287-1ABH
7	TO-220, Vertical Mount Wave-Solderable, With Tabs	22.23 x 5.46 x 31.75	345-1024-ND	1.72	1.23	.86	288-1AB
8	TO-220 Self-Locking, Vertical Mount, Black	25.40 x 9.14 x 21.84	345-1025-ND◆	.88	.63	.44	291-H36AB
9	TO-220 Power Vertical Mount With Pins/6-32Thds, Black	16.26 x 16.26 x 25.40	345-1026-ND	2.70	1.93	1.35	634-10ABP
	TO-220 Power Vertical Mount With Pins/6-32Thds, Black	16.26 x 16.26 x 38.1	345-1091-ND	2.91	2.08	1.46	634-15ABP
	TO-220 Power Vertical Mount With Pins/6-32Thds, Black	16.26 x 16.26 x 50.80	345-1027-ND	3.05	2.18	1.53	634-20ABP
10	TO-220 Power Vertical Mount With Pins, Black	34.93 x 12.70 x 25.40	345-1028-ND	2.31	1.65	1.16	637-10ABP
	TO-220 Power Vertical Mount With Pins, Black	34.93 x 12.70 x 38.10	345-1029-ND	2.49	1.78	1.25	637-15ABP
	TO-220 Power Vertical Mount With Pins, Black	34.93 x 12.70 x 50.80	345-1030-ND	2.84	2.03	1.42	637-20ABP
	TO-220 Power Vertical Mount With Pins, Black	41.91 x 25.40 x 25.40	345-1031-ND	2.70	1.93	1.35	647-10ABP
	TO-220 Power Vertical Mount With Pins, Black	41.91 x 25.40 x 38.10	345-1032-ND	2.98	2.13	1.49	647-15ABP
	TO-220 Power Vertical Mount With Pins, Black	41.91 x 25.40 x 38.10	345-1033-ND	2.45	1.75	1.23	657-15ABP
	TO-220 Power Vertical Mount With Pins, Black	41.91 x 25.40 x 38.10	345-1034-ND	2.45	1.75	1.23	657-15ABPN
	TO-220 Power Vertical Mount With Pins, Black	41.91 x 25.40 x 50.80	345-1035-ND	2.98	2.13	1.49	657-20ABP
	TO-220 Pwr. SpeedClip Mount With Pins (Order clip below)	34.93 x 12.70 x 25.40	345-1037-ND	3.15	2.25	1.58	667-10ABPP
—	SpeedClip, Stainless Steel for 667 Series	—	345-1039-ND◆	.95	.68	.48	330-SC
11	TO-220 Self-Locking Horizontal/Vertical Mount, Black	14.48 x 12.70 x 19.05	345-1040-ND◆	.56	.40	.28	230-75AB
12	TO-220 Low Cost Horizontal/Vertical Mount, Black	44.45 x 9.52 x 17.78	345-1041-ND◆	.49	.35	.25	270-AB
	TO-220 Top Mount Booster for 270,272,280 Series, Black	44.45 x 12.70 x 17.78	345-1042-ND◆	.56	.40	.28	271-AB
	TO-220 Dual Mount Horizontal, Black	44.45 x 9.52 x 36.83	345-1043-ND◆	.67	.48	.34	272-AB
13	IGBT and SSRs Power Modules Black	180.01 x 124.97 x 135.64	345-1046-ND◆	120.13	84.09	72.08	392-180AB
14	TO-3 Power Horizontal Mount Double Fin, Black	120.65 x 38.10 x 31.75	345-1047-ND◆	12.75	8.50	6.59	401-A
	Power Heat Sink Horizontal, Double Fin, No Holes	120.65 x 38.10 x 31.75	345-1048-ND◆	12.75	8.50	6.59	401-K
	Power Heat Sink, Horizontal, Double Fin, No Holes	120.65 x 76.20 x 66.55	345-1049-ND◆	15.30	10.20	7.91	421-K
	Power Heat Sink, Horizontal, Double Fin, No Holes	120.65 x 139.70 x 66.55	345-1050-ND◆	19.33	13.53	11.60	423-K
15	TO-3 Power, Horizontal Mount, Omnidirectional, Black	45.97 x 45.97 x 31.75	345-1051-ND◆	12.42	8.28	6.42	680-125A
16	TO-3 Heavy Duty Power, Horizontal Mount, Black	104.78 x 76.20 x 25.40	345-1052-ND◆	10.89	7.26	5.63	641-A
	Power Heat Sink, Horizontal Mount, No Holes, Black	104.78 x 76.20 x 25.40	345-1053-ND◆	10.89	7.26	5.63	641-K
17	14-16 Dip IC Heat Sink, Glue On, Black	19.05 x 10.54 x 6.10	345-1054-ND◆	1.96	1.40	.98	651-B
18	Surface Mount, Black	22.9 x 8.0 x 10.2	345-1082-ND	.91	.65	.46	218-40CT3
	Surface Mount, Aluminum Natural	26.2 x 12.7 x 10.2	345-1083-ND	1.05	.75	.53	218-40CT5
19	TO-220, Horizontal and Vertical Mount, Black	14.5 x 12.7 x 19.1	345-1085-ND	.67	.48	.34	262-75AB-05
20	TO-220, Low-Height Wave-Solderable, Black	19.1 x 12.7 x 13.2	345-1087-ND◆	.42	.30	.21	274-2AB
21	Stud-Mount, Black, ID=5.1mm	— x 33.8 x 12.3	345-1095-ND◆	2.00	1.43	1.00	695-1B
22	Half Brick DC/DC Converter, Vertical, Black	57.91 x 60.96 x 24.13	345-1055-ND◆	3.96	2.64	2.05	518-95AB
	Half Brick DC/DC Converter With Hardware/Thermal Pad	57.91 x 60.96 x 24.13	345-1056-ND◆	7.53	5.02	3.90	518-95AB-MS4
	Half Brick DC/DC Converter Vertical, Black	57.91 x 60.96 x 11.43	345-1057-ND◆	3.39	2.26	1.76	528-45AB

◆ ***RoHS Compliant***

CPU, PGA and BGA Heat Sinks

609 Series: Fits PowerPC 601, 604, 255BGA **628 Series:** Fits IntelDX4, Intel 80486DX2, AM486DX2/DX4 **658 Series:** Fits IntelDX4, AM29240, PowerPC 603

		Dimensions – mm	Digi-Key	Price Each			Wakefield
Fig.	Description	L x W x H	Part No.	1	10	100	Part No.
	CPU Cooler						
17	35mm BGA Unidirectional Fin Heat Sink	35.00 x 35.00 x 11.4	345-1092-ND◆	2.28	1.63	1.14	642-45AB
22	16.5mm BGA/PGA With Thermal Tape, Black	16.5 x 16.5 x 8.9	345-1101-ND◆	2.35	1.68	1.18	LTN20069-T5
23	40mm QFP and 21mm BGA With Clips and Thermal Tape, Black	73.41 x 50.80 x 12.70	345-1058-ND◆	10.65	7.10	5.51	609-50ABS3
24	21mm BGA With Thermal Double Sided Tape	21.01 x 21.01 x 6.35	345-1059-ND	3.29	2.35	1.65	624-25ABT4
	21mm BGA With Thermal Double Sided Tape	21.01 x 21.01 x 6.35	345-1098-ND◆	2.82	1.88	1.46	624-25ABT4E
	25mm BGA With Thermal Double Sided Tape	24.99 x 24.99 x 6.35	345-1060-ND	3.71	2.65	1.86	625-25ABT4
	17x17 PGA No Tape, Black	44.45 x 43.18 x 10.16	345-1061-ND◆	2.66	1.90	1.33	628-40AB
	17x17 PGA No Tape, Black	44.45 x 43.18 x 16.51	345-1062-ND◆	2.40	1.60	1.24	628-65AB
	28-38mm CQFP No Tape, Black	27.94 x 27.94 x 6.35	345-1036-ND◆	1.58	1.13	.79	658-25AB
	28-38mm CQFP With Thermal Tape (Chomerics T-405), Black	27.94 x 27.94 x 6.35	345-1063-ND	3.36	2.40	1.68	658-25ABT1
	28-38mm CQFP With Thermal Tape (Arclad 8223) Black	27.94 x 27.94 x 6.35	345-1096-ND◆	3.27	2.18	1.69	658-25ABT3
	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	27.94 x 27.94 x 6.35	345-1065-ND	3.21	2.14	1.66	658-25ABT4
	28-38mm CQFP No Tape, Black	27.94 x 27.94 x 8.89	345-1066-ND◆	1.65	1.18	.83	658-35AB
	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	27.94 x 27.94 x 8.89	345-1067-ND◆	3.27	2.18	1.69	658-35ABT3
	28-38mm CQFP With Thermal Tape (Chomerics T-410), Black	27.94 x 27.94 x 8.89	345-1068-ND	3.33	2.22	1.73	658-35ABT4
	28-38mm CQFP With Thermal Tape (Chomerics T-410), Black	27.94 x 27.94 x 8.89	345-1100-ND◆	3.33	2.22	1.73	658-35ABT4E
	28-38mm CQFP No Tape, Black	27.94 x 27.94 x 11.43	345-1069-ND◆	1.72	1.23	.86	658-45AB
	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	27.94 x 27.94 x 11.43	345-1097-ND◆	3.39	2.26	1.76	658-45ABT3
	28-38mm CQFP With Thermal Tape (Chomerics T-410), Black	27.94 x 27.94 x 11.43	345-1071-ND	3.48	2.32	1.80	658-45ABT4
	28-38mm CQFP No Tape, Black	27.94 x 27.94 x 15.24	345-1072-ND◆	2.00	1.43	1.00	658-60AB
	28-38mm CQFP With Thermal Tape (Chomerics T-405), Black	27.94 x 27.94 x 15.24	345-1073-ND	3.27	2.18	1.69	658-60ABT1
	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	27.94 x 27.94 x 15.24	345-1075-ND◆	3.54	2.36	1.83	658-60ABT3
	21mm BGA With Omnidirectional Pin Fin Heat Sink, Black	21.01 x 21.01 x 11.4	345-1089-ND◆	3.29	2.35	1.65	624-45ABT3
	25mm BGA With Omnidirectional Pin Fin Heat Sink, Black	24.99 x 24.99 x 11.4	345-1090-ND◆	2.31	1.65	1.16	625-45AB
	Pin Fin Heat Sinks, Black	40.6 x 40.6 x 13.3	345-1093-ND◆	3.33	2.38	1.67	655-53AB
	Omnidirectional Pin Fin, Black	27.9 x 27.9 x 15.2	345-1094-ND	3.60	2.40	1.86	658-60ABT4
	CPU Composite Cooler — RoHS Compliant						
25	CPU Composite Cooler for 84-100QFP, 169BGA, No Tape, Black	16.51 x 16.51 x 10.16	345-1076-ND	2.03	1.45	1.02	D10650-40
	CPU Composite Cooler for 128-200QFP, 313BGA, No Tape, Black	21.59 x 21.59 x 10.16	345-1077-ND	2.52	1.80	1.26	D10850-40

◆ ***RoHS Compliant***

High Performance Heat Sinks

ATS maxiFLOW™ Heat Sinks have a low profile, spread fin array to maximize surface area for more effective convection (air) cooling. Their extruded aluminum fabrication minimizes thermal resistance and weight. Testing at an air flow rate of just 100 lfm shows that device junction temperatures (Tj) can be reduced by more than 40 percent below the temperatures achieved using other heat sinks.

The maxiGRIP™ Heat Sink Attachment System features a plastic frame clip that snaps securely around a component's perimeter. A stainless steel spring clip runs through the heat sink's fin field, fastens securely to the plastic frame and applies steady, even pressure to the component. The system allows easy sink detachment and reattachment with no damage to the component.

There is no over or under tightening of the sink to the processor. Component/heat sink assemblies using maxiGRIP meet Telcordia GR-63-Core Office Vibration; ETSI 300 019 Transportation Vibration; and MIL-STD-810 Shock Testing and Unpackaged Drop Testing standards.

BGA Cooling Solutions

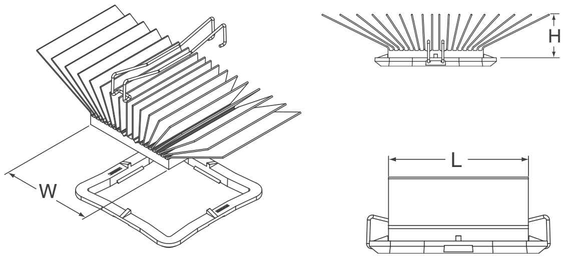

maxiGRIP Assembly Attachment Heat Sink for Standard Height Components◊ from 3 to 4.5mm, Blue Anodized, Phase Change Material

Dimensions (mm) L	W	H	Thermal Resistance Unducted Flow @ 200 LFM (1m/sec.)	Ducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10	100
17	17	7.5	18.2	13.9	ATS1000-ND	10.17	7.74	6.63
19	19	7.5	16.5	12.9	ATS1001-ND	10.26	7.81	6.69
21	21	7.5	11.9	8.8	ATS1002-ND	10.37	7.90	6.77
23	23	7.5	10.9	8.3	ATS1003-ND	10.47	7.97	6.83
25	25	7.5	8.6	6.1	ATS1004-ND	10.58	8.05	6.90
27	27	7.5	7.9	5.8	ATS1005-ND	10.67	8.12	6.96
29	29	7.5	7 .4	5.6	ATS1006-ND	10.79	8.21	7.04
30	30	7.5	7.1	5.4	ATS1007-ND	10.90	8.30	7.11
31	31	7.5	6.9	5.3	ATS1008-ND	10.99	8.37	7.17
32.5	32.5	7.5	5.9	4.2	ATS1009-ND	11.11	8.46	7.25
33	33	7.5	5.8	4.2	ATS1010-ND	11.16	8.49	7.28
35	35	7.5	5.3	3.4	ATS1011-ND	11.22	8.54	7.32
37.5	37.5	7.5	4.9	3.3	ATS1012-ND	11.34	8.63	7.40
40	40	7.5	4.5	3.2	ATS1013-ND	11.45	8.72	7.47
42.5	42.5	7.5	4.3	3.0	ATS1014-ND	11.32	8.71	7.30
45	45	7.5	4.0	2.6	ATS1015-ND	11.43	8.79	7.37
17	17	12.5	11.1	9.0	ATS1016-ND	10.99	8.37	7.17
19	19	12.5	10.2	8.4	ATS1017-ND	11.11	8.46	7.25
21	21	12.5	7.2	5.7	ATS1018-ND	11.22	8.54	7.32
23	23	12.5	6.7	5.4	ATS1019-ND	11.34	8.63	7.40
25	25	12.5	5.2	4.0	ATS1020-ND	11.45	8.72	7.47
27	27	12.5	4.8	3.8	ATS1021-ND	11.32	8.71	7.30
29	29	12.5	4.5	3.7	ATS1022-ND	11.43	8.79	7.37
30	30	12.5	4.4	3.6	ATS1023-ND	11.54	8.88	7.44
31	31	12.5	4.3	3.5	ATS1024-ND	11.66	8.97	7.52
32.5	32.5	12.5	3.5	2.8	ATS1025-ND	11.79	9.07	7.60
33	33	12.5	3.5	2.7	ATS1026-ND	11.84	9.10	7.63
35	35	12.5	3.0	2.2	ATS1027-ND	11.90	9.16	7.68
37.5	37.5	12.5	2.8	2.1	ATS1028-ND	12.02	9.24	7.75
40	40	12.5	2.6	2.0	ATS1029-ND	12.13	9.33	7.82
42.5	42.5	12.5	2.4	2.0	ATS1030-ND	12.26	9.43	7.91
45	45	12.5	2.1	1.6	ATS1031-ND	12.38	9.52	7.98
17	17	17.5	8.3	6.8	ATS1032-ND	11.68	8.98	7.53
19	19	17.5	7.7	6.4	ATS1033-ND	11.81	9.09	7.62
21	21	17.5	5.4	4.3	ATS1034-ND	11.93	9.17	7.69
23	23	17.5	5.1	4.1	ATS1035-ND	12.04	9.26	7.76
25	25	17.5	3.9	3.0	ATS1036-ND	12.17	9.36	7.85
27	27	17.5	3.7	2.9	ATS1037-ND	12.29	9.45	7.92
29	29	17.5	3.5	2.8	ATS1038-ND	12.42	9.55	8.01
30	30	17.5	3.4	2.7	ATS1039-ND	12.53	9.64	8.08
31	31	17.5	3.3	2.7	ATS1040-ND	12.67	9.74	8.17
32.5	32.5	17.5	2.7	2.1	ATS1041-ND	12.78	9.83	8.24
33	33	17.5	2.7	2.1	ATS1042-ND	12.85	9.88	8.28
35	35	17.5	2.3	1.7	ATS1043-ND	12.92	9.93	8.33
37.5	37.5	17.5	2.1	1.6	ATS1044-ND	13.05	10.04	8.41
40	40	17.5	2.0	1.6	ATS1045-ND	13.19	10.14	8.50
42.5	42.5	17.5	1.9	1.5	ATS1046-ND	13.30	10.23	8.57
45	45	17.5	1.6	1.3	ATS1047-ND	13.43	10.33	8.66

◊ Component height is defined as the distance from the top of the PCB to the top of the component

maxiGRIP Assembly Attachment Heat Sink for Low Profile Components◊ from 1.5 to 2.99mm, Black Anodized, Phase Change Material

Dimensions (mm) L	W	H	Thermal Resistance Unducted Flow @ 200 LFM (1m/sec.)	Ducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10	100
17	17	9.5	18.5	12.6	ATS1048-ND	10.44	7.95	6.81
19	19	9.5	16.7	11.6	ATS1049-ND	10.60	8.07	6.92
21	21	9.5	12.0	8.0	ATS1050-ND	10.76	8.19	7.02
23	23	9.5	11.0	7.5	ATS1051-ND	10.93	8.32	7.13
25	25	9.5	8.6	5.5	ATS1052-ND	11.09	8.44	7.23
27	27	9.5	8.0	5.3	ATS1053-ND	11.27	8.58	7.35
29	29	9.5	7.4	5.0	ATS1054-ND	11.43	8.70	7.46
30	30	9.5	7.2	4.9	ATS1055-ND	11.30	8.69	7.28
31	31	9.5	7.0	4.8	ATS1056-ND	11.39	8.76	7.34
32.5	32.5	9.5	6.0	3.8	ATS1057-ND	11.50	8.84	7.41
33	33	9.5	5.9	3.8	ATS1058-ND	11.54	8.88	7.44
35	35	9.5	5.3	3.1	ATS1059-ND	11.59	8.91	7.47
37.5	37.5	9.5	4.9	3.0	ATS1060-ND	11.70	9.00	7.54
40	40	9.5	4.5	2.8	ATS1061-ND	11.81	9.09	7.62
42.5	42.5	9.5	4.3	2.7	ATS1062-ND	11.90	9.16	7.68
45	45	9.5	4.0	2.3	ATS1063-ND	12.02	9.24	7.75
17	17	14.5	10.9	8.5	ATS1064-ND	11.32	8.61	7.38
19	19	14.5	10.1	7.9	ATS1065-ND	11.48	8.74	7.49
21	21	14.5	7.2	5.4	ATS1066-ND	11.41	8.78	7.36
23	23	14.5	6.6	5.1	ATS1067-ND	11.59	8.91	7.47
25	25	14.5	5.1	3.8	ATS1068-ND	11.77	9.05	7.59
27	27	14.5	4.8	3.6	ATS1069-ND	11.95	9.19	7.70
29	29	14.5	4.5	3.4	ATS1070-ND	12.13	9.33	7.82
30	30	14.5	4.3	3.4	ATS1071-ND	12.24	9.42	7.89
31	31	14.5	4.2	3.3	ATS1072-ND	12.33	9.48	7.95
32.5	32.5	14.5	3.5	2.6	ATS1073-ND	12.44	9.57	8.02
33	33	14.5	3.4	2.6	ATS1074-ND	12.51	9.62	8.07
35	35	14.5	2.9	2.1	ATS1075-ND	12.56	9.66	8.10
37.5	37.5	14.5	2.7	2.0	ATS1076-ND	12.67	9.74	8.17
40	40	14.5	2.5	1.9	ATS1077-ND	12.78	9.83	8.24
42.5	42.5	14.5	2.4	1.8	ATS1078-ND	12.92	9.93	8.33
45	45	14.5	2.1	1.5	ATS1079-ND	13.03	10.02	8.40
17	17	19.5	8.1	6.5	ATS1080-ND	12.02	9.24	7.75
19	19	19.5	7.5	6.1	ATS1081-ND	12.20	9.38	7.86
21	21	19.5	5.3	4.2	ATS1082-ND	12.38	9.52	7.98
23	23	19.5	5.0	4.0	ATS1083-ND	12.58	9.68	8.11
25	25	19.5	3.8	2.9	ATS1084-ND	12.76	9.81	8.23
27	27	19.5	3.6	2.8	ATS1085-ND	12.96	9.97	8.36
29	29	19.5	3.4	2.7	ATS1086-ND	13.16	10.13	8.49
30	30	19.5	3.3	2.6	ATS1087-ND	13.28	10.21	8.56
31	31	19.5	3.2	2.6	ATS1088-ND	13.39	10.30	8.63
32.5	32.5	19.5	2.7	2.0	ATS1089-ND	13.22	10.40	8.72
33	33	19.5	2.6	2.0	ATS1090-ND	13.27	10.44	8.75
35	35	19.5	2.2	1.6	ATS1091-ND	13.33	10.49	8.79
37.5	37.5	19.5	2.1	1.6	ATS1092-ND	13.44	10.57	8.86
40	40	19.5	2.0	1.5	ATS1093-ND	13.57	10.68	8.95
42.5	42.5	19.5	1.9	1.5	ATS1094-ND	13.71	10.78	9.04
45	45	19.5	1.6	1.2	ATS1095-ND	13.82	10.87	9.11

◊ Component height is defined as the distance from the top of the PCB to the top of the component *(Continued)*

maxiGRIP™ Heat Sink Attachment Assembly with Straight-Fin Heat Sink, Black Anodized, Thermal Tape

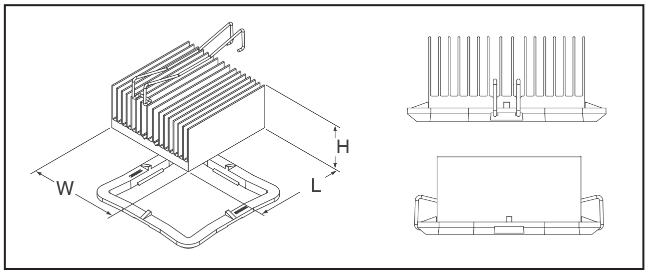

Dimensions (mm) L	W	H	Thermal Resistance Unducted Flow @ 200 LFM (1m/sec.)	Ducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10	100
17	17	9.5	24.3	12.3	ATS1147-ND	9.71	7.39	6.33
19	19	9.5	22.0	11.6	ATS1148-ND	9.80	7.46	6.39
21	21	9.5	20.2	10.9	ATS1149-ND	9.89	7.53	6.45
23	23	9.5	16.8	7.6	ATS1150-ND	10.01	7.62	6.53
25	25	9.5	15.3	7.3	ATS1151-ND	10.10	7.69	6.59
27	27	9.5	14.1	7.0	ATS1152-ND	10.21	7.77	6.66
29	29	9.5	13.1	6.7	ATS1153-ND	10.30	7.84	6.72
30	30	9.5	12.7	6.6	ATS1154-ND	10.40	7.91	6.78
31	31	9.5	12.0	5.1	ATS1155-ND	10.51	8.00	6.86
32.5	32.5	9.5	11.3	5.0	ATS1156-ND	10.63	8.09	6.93
33	33	9.5	11.1	5.0	ATS1157-ND	10.65	8.11	6.95
35	35	9.5	10.3	4.8	ATS1158-ND	10.72	8.16	6.99
37.5	37.5	9.5	10.0	3.8	ATS1159-ND	10.83	8.25	7.07
40	40	9.5	9.1	3.7	ATS1160-ND	10.95	8.33	7.14
42.5	42.5	9.5	8.4	3.6	ATS1161-ND	11.04	8.40	7.20
45	45	9.5	8.4	2.9	ATS1162-ND	11.16	8.49	7.28
17	17	14.5	13.1	7.8	ATS1163-ND	10.47	7.97	6.83
19	19	14.5	12.0	7.4	ATS1164-ND	10.56	8.04	6.89
21	21	14.5	11.1	7.1	ATS1165-ND	10.67	8.12	6.96
23	23	14.5	8.8	4.9	ATS1166-ND	10.79	8.21	7.04
25	25	14.5	8.1	4.7	ATS1167-ND	10.88	8.28	7.10
27	27	14.5	7.6	4.5	ATS1168-ND	10.99	8.37	7.17
29	29	14.5	7.1	4.4	ATS1169-ND	11.11	8.46	7.25
30	30	14.5	6.9	4.3	ATS1170-ND	11.22	8.54	7.32
31	31	14.5	6.2	3.3	ATS1171-ND	11.34	8.63	7.40
32.5	32.5	14.5	5.9	3.2	ATS1172-ND	11.45	8.72	7.47
33	33	14.5	5.8	3.2	ATS1173-ND	11.50	8.75	7.50
35	35	14.5	5.4	3.1	ATS1174-ND	11.32	8.71	7.30
37.5	37.5	14.5	5.0	2.4	ATS1175-ND	11.43	8.79	7.37
40	40	14.5	4.6	2.4	ATS1176-ND	11.54	8.88	7.44
42.5	42.5	14.5	4.3	2.3	ATS1177-ND	11.66	8.97	7.52
45	45	14.5	4.1	1.9	ATS1178-ND	11.77	9.05	7.59
17	17	19.5	9.3	5.6	ATS1179-ND	10.93	8.32	7.13
19	19	19.5	8.4	5.3	ATS1180-ND	11.02	8.39	7.19
21	21	19.5	7.8	5.1	ATS1181-ND	11.13	8.47	7.26
23	23	19.5	7.3	4.9	ATS1182-ND	11.25	8.56	7.34
25	25	19.5	5.7	3.4	ATS1183-ND	11.36	8.65	7.41
27	27	19.5	5.3	3.3	ATS1184-ND	11.48	8.74	7.49
29	29	19.5	5.0	3.2	ATS1185-ND	11.34	8.72	7.31
30	30	19.5	4.8	3.1	ATS1186-ND	11.45	8.81	7.39
31	31	19.5	4.7	3.1	ATS1187-ND	11.57	8.90	7.46
32.5	32.5	19.5	4.1	2.3	ATS1188-ND	11.68	8.98	7.53
33	33	19.5	4.1	2.3	ATS1189-ND	11.72	9.02	7.56
35	35	19.5	3.8	2.2	ATS1190-ND	11.79	9.07	7.60
37.5	37.5	19.5	3.5	2.2	ATS1191-ND	11.93	9.17	7.69
40	40	19.5	3.2	1.7	ATS1192-ND	12.04	9.26	7.76
42.5	42.5	19.5	3.0	1.7	ATS1193-ND	12.15	9.35	7.83
45	45	19.5	2.8	1.6	ATS1194-ND	12.29	9.45	7.92

maxiGRIP™ Installation and Removal Tools

Heat Sink Size is referring to maxiGRIP Heat Sink Attachment Assemblies compatible with tools

Heat Sink Size (mm) L	W	Digi-Key Part No.	Price Each	ATS Part No.
19	19	ATS1382-ND	71.91	MGT190
21	21	ATS1383-ND	71.91	MGT210
23	23	ATS1384-ND	71.91	MGT230
25	25	ATS1385-ND	71.91	MGT250
27	27	ATS1386-ND	71.91	MGT270
29	29	ATS1387-ND	71.91	MGT290
30	30	ATS1388-ND	71.91	MGT300
31	31	ATS1389-ND	71.91	MGT310
32.5	32.5	ATS1390-ND	71.91	MGT325
33	33	ATS1391-ND	71.91	MGT330
35	35	ATS1392-ND	71.91	MGT350
37.5	37.5	ATS1393-ND	71.91	MGT375
40	40	ATS1394-ND	71.91	MGT400
42.5	42.5	ATS1395-ND	71.91	MGT425
45	45	ATS1396-ND	71.91	MGT450

BGA Cooling Solutions

maxiFLOW™ Heat Sink Using Thermal Tape Attachment, Blue Anodized

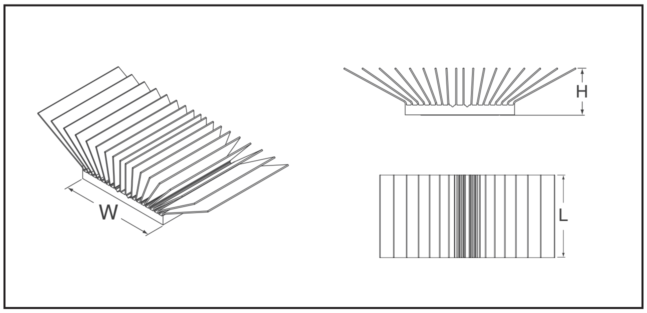

Dimensions (mm) L	W	H	Thermal Resistance Unducted Flow @ 200 LFM (1m/sec.)	Ducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10	100
15	15	7.5	19.7	14.6	ATS1096-ND	7.35	5.44	4.50
17	17	7.5	18.2	13.9	ATS1097-ND	7.43	5.50	4.55
19	19	7.5	16.5	12.9	ATS1098-ND	7.50	5.55	4.59
21	21	7.5	11.9	8.8	ATS1099-ND	7.58	5.46	4.55
23	23	7.5	10.9	8.3	ATS1100-ND	7.65	5.51	4.59
25	25	7.5	8.6	6.1	ATS1101-ND	7.73	5.57	4.64
27	27	7.5	7.9	5.8	ATS1102-ND	7.80	5.62	4.68
29	29	7.5	7.4	5.6	ATS1103-ND	7.88	5.67	4.73
30	30	7.5	7.1	5.4	ATS1104-ND	7.95	5.73	4.77
31	31	7.5	6.9	5.3	ATS1105-ND	8.03	5.78	4.82
32.5	32.5	7.5	5.9	4.2	ATS1106-ND	8.13	5.85	4.88
33	33	7.5	5.8	4.2	ATS1107-ND	7.82	5.87	4.89
35	35	7.5	5.3	3.4	ATS1108-ND	7.87	5.91	4.92
37.5	37.5	7.5	4.9	3.3	ATS1109-ND	7.94	5.96	4.97
40	40	7.5	4.5	3.2	ATS1110-ND	8.02	6.02	5.01
42.5	42.5	7.5	4.3	3.0	ATS1111-ND	8.11	6.09	5.07
45	45	7.5	4.0	2.6	ATS1112-ND	8.18	6.14	5.12
15	15	12.5	11.7	9.4	ATS1113-ND	8.35	6.27	5.22
17	17	12.5	11.1	9.0	ATS1114-ND	8.45	6.34	5.28
19	19	12.5	10.2	8.4	ATS1115-ND	8.52	6.39	5.33
21	21	12.5	7.2	5.7	ATS1116-ND	8.62	6.47	5.39
23	23	12.5	6.7	5.4	ATS1117-ND	8.71	6.54	5.45
25	25	12.5	5.2	4.0	ATS1118-ND	8.78	6.59	5.49
27	27	12.5	4.8	3.8	ATS1119-ND	8.88	6.66	5.55
29	29	12.5	4.5	3.7	ATS1120-ND	8.98	6.74	5.61
30	30	12.5	4.4	3.6	ATS1121-ND	9.07	6.81	5.67
31	31	12.5	4.3	3.5	ATS1122-ND	9.14	6.86	5.72
32.5	32.5	12.5	3.5	2.8	ATS1123-ND	9.24	6.93	5.78
33	33	12.5	3.5	2.7	ATS1124-ND	9.29	6.97	5.81
35	35	12.5	3.0	2.2	ATS1125-ND	9.34	7.01	5.84
37.5	37.5	12.5	2.8	2.1	ATS1126-ND	9.43	7.08	5.90
40	40	12.5	2.6	2.0	ATS1127-ND	9.53	7.15	5.96
42.5	42.5	12.5	2.4	2.0	ATS1128-ND	9.62	7.02	6.02
45	45	12.5	2.1	1.6	ATS1129-ND	9.72	7.09	6.08
15	15	17.5	8.7	7.1	ATS1130-ND	9.82	7.16	6.14
17	17	17.5	8.3	6.8	ATS1131-ND	9.91	7.23	6.20
19	19	17.5	7.7	6.4	ATS1132-ND	10.01	7.30	6.26
21	21	17.5	5.4	4.3	ATS1133-ND	9.71	7.39	6.33
23	23	17.5	5.1	4.1	ATS1134-ND	9.80	7.46	6.39
25	25	17.5	3.9	3.0	ATS1135-ND	9.89	7.53	6.45
27	27	17.5	3.7	2.9	ATS1136-ND	10.01	7.62	6.53
29	29	17.5	3.5	2.8	ATS1137-ND	10.10	7.69	6.59
30	30	17.5	3.4	2.7	ATS1138-ND	10.19	7.76	6.65
31	31	17.5	3.3	2.7	ATS1139-ND	10.30	7.84	6.72
32.5	32.5	17.5	2.7	2.1	ATS1140-ND	10.40	7.91	6.78
33	33	17.5	2.7	2.1	ATS1141-ND	10.44	7.95	6.81
35	35	17.5	2.3	1.7	ATS1142-ND	10.51	8.00	6.86
37.5	37.5	17.5	2.1	1.6	ATS1143-ND	10.60	8.07	6.92
40	40	17.5	2.0	1.6	ATS1144-ND	10.72	8.16	6.99
42.5	42.5	17.5	1.9	1.5	ATS1145-ND	10.83	8.25	7.07
45	45	17.5	1.6	1.3	ATS1146-ND	10.93	8.32	7.13

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High Aspect Ratio Extrusion

Straight Fin Heat Sink with Thermal Tape Attachment, Black Anodized

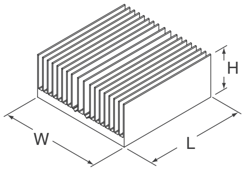

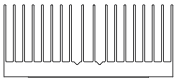

Dimensions (mm) L	W	H	Thermal Resistance Unducted Flow @ 200 LFM (1m/sec.)	Thermal Resistance Ducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10	100
15	15	9.5	26.2	12.7	ATS1195-ND	6.30	4.67	3.86
17	17	9.5	24.3	12.3	ATS1196-ND	6.35	4.70	3.89
19	19	9.5	22.0	11.6	ATS1197-ND	6.43	4.76	3.94
21	21	9.5	20.2	10.9	ATS1198-ND	6.48	4.80	3.97
23	23	9.5	16.8	7.6	ATS1199-ND	6.55	4.85	4.01
25	25	9.5	15.3	7.3	ATS1200-ND	6.63	4.91	4.06
27	27	9.5	14.1	7.0	ATS1201-ND	6.68	4.94	4.09
29	29	9.5	13.1	6.7	ATS1202-ND	6.75	5.00	4.14
30	30	9.5	12.7	6.6	ATS1203-ND	6.83	5.06	4.18
31	31	9.5	12.0	5.1	ATS1204-ND	6.88	5.09	4.21
32.5	32.5	9.5	11.3	5.0	ATS1205-ND	6.95	5.15	4.26
33	33	9.5	11.1	5.0	ATS1206-ND	6.98	5.17	4.27
35	35	9.5	10.3	4.8	ATS1207-ND	7.03	5.20	4.30
37.5	37.5	9.5	10.0	3.8	ATS1208-ND	7.10	5.26	4.35
40	40	9.5	9.1	3.7	ATS1209-ND	7.18	5.31	4.40
42.5	42.5	9.5	8.4	3.6	ATS1210-ND	7.23	5.35	4.43
45	45	9.5	8.4	2.9	ATS1211-ND	7.30	5.41	4.47
15	15	14.5	19.1	12.9	ATS1212-ND	7.45	5.52	4.56
17	17	14.5	13.1	7.8	ATS1213-ND	7.53	5.42	4.52
19	19	14.5	12.0	7.4	ATS1214-ND	7.60	5.48	4.56
21	21	14.5	11.1	7.1	ATS1215-ND	7.68	5.53	4.61
23	23	14.5	8.8	4.9	ATS1216-ND	7.75	5.58	4.65
25	25	14.5	8.1	4.7	ATS1217-ND	7.85	5.66	4.71
27	27	14.5	7.6	4.5	ATS1218-ND	7.93	5.71	4.76
29	29	14.5	7.1	4.4	ATS1219-ND	8.00	5.76	4.80
30	30	14.5	6.9	4.3	ATS1220-ND	8.08	5.82	4.85
31	31	14.5	6.2	3.3	ATS1221-ND	7.82	5.87	4.89
32.5	32.5	14.5	5.9	3.2	ATS1222-ND	7.92	5.94	4.95
33	33	14.5	5.8	3.2	ATS1223-ND	7.94	5.96	4.97
35	35	14.5	5.4	3.1	ATS1224-ND	7.99	6.00	5.00
37.5	37.5	14.5	5.0	2.4	ATS1225-ND	8.06	6.05	5.04
40	40	14.5	4.6	2.4	ATS1226-ND	8.16	6.12	5.10
42.5	42.5	14.5	4.3	2.3	ATS1227-ND	8.23	6.18	5.15
45	45	14.5	4.1	1.9	ATS1228-ND	8.33	6.25	5.21
15	15	19.5	13.4	9.5	ATS1229-ND	7.82	5.87	4.89
17	17	19.5	9.3	5.6	ATS1230-ND	7.92	5.94	4.95
19	19	19.5	8.4	5.3	ATS1231-ND	7.99	6.00	5.00
21	21	19.5	7.8	5.1	ATS1232-ND	8.06	6.05	5.04
23	23	19.5	7.3	4.9	ATS1233-ND	8.16	6.12	5.10
25	25	19.5	5.7	3.4	ATS1234-ND	8.23	6.18	5.15
27	27	19.5	5.3	3.3	ATS1235-ND	8.33	6.25	5.21
29	29	19.5	5.0	3.2	ATS1236-ND	8.40	6.30	5.25
30	30	19.5	4.8	3.1	ATS1237-ND	8.50	6.38	5.31
31	31	19.5	4.7	3.1	ATS1238-ND	8.57	6.43	5.36
32.5	32.5	19.5	4.1	2.3	ATS1239-ND	8.66	6.50	5.42
33	33	19.5	4.1	2.3	ATS1240-ND	8.69	6.52	5.43
35	35	19.5	3.8	2.2	ATS1241-ND	8.74	6.56	5.46
37.5	37.5	19.5	3.5	2.2	ATS1242-ND	8.83	6.63	5.52
40	40	19.5	3.2	1.7	ATS1243-ND	8.93	6.70	5.58
42.5	42.5	19.5	3.0	1.7	ATS1244-ND	9.00	6.75	5.63
45	45	19.5	2.8	1.6	ATS1245-ND	9.10	6.83	5.69
15	15	24.5	10.5	7.7	ATS1246-ND	9.07	6.81	5.67
17	17	24.5	7.1	4.5	ATS1247-ND	9.17	6.88	5.73
19	19	24.5	6.5	4.3	ATS1248-ND	9.26	6.95	5.79
21	21	24.5	6.0	3.8	ATS1249-ND	9.36	7.02	5.85
23	23	24.5	5.6	4.0	ATS1250-ND	9.46	7.10	5.91
25	25	24.5	4.4	2.7	ATS1251-ND	9.55	7.17	5.97
27	27	24.5	4.0	2.6	ATS1252-ND	9.65	7.04	6.03
29	29	24.5	3.8	2.6	ATS1253-ND	9.74	7.11	6.09
30	30	24.5	3.7	2.5	ATS1254-ND	9.84	7.18	6.15
31	31	24.5	3.6	2.5	ATS1255-ND	9.94	7.25	6.21
32.5	32.5	24.5	3.1	1.9	ATS1256-ND	10.03	7.32	6.27
33	33	24.5	3.1	1.9	ATS1257-ND	10.08	7.35	6.30
35	35	24.5	2.9	1.8	ATS1258-ND	9.71	7.39	6.33
37.5	37.5	24.5	2.7	1.8	ATS1259-ND	9.82	7.48	6.41
40	40	24.5	2.4	1.4	ATS1260-ND	9.91	7.55	6.47
42.5	42.5	24.5	2.2	1.3	ATS1261-ND	10.01	7.62	6.53
45	45	24.5	2.1	1.3	ATS1262-ND	10.12	7.70	6.60

Cross-Cut Heat Sink with Thermal Tape Attachment, Black Anodized

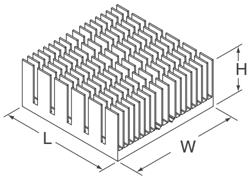

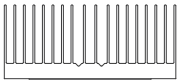

Dimensions (mm) L	W	H	Thermal Resistance Unducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10	100
15	15	9.5	29.5	ATS1263-ND	6.38	4.72	3.91
17	17	9.5	28.0	ATS1264-ND	6.48	4.80	3.97
19	19	9.5	24.0	ATS1265-ND	6.58	4.87	4.03
21	21	9.5	21.9	ATS1266-ND	6.68	4.94	4.09
23	23	9.5	18.0	ATS1267-ND	6.78	5.02	4.15
25	25	9.5	16.5	ATS1268-ND	6.88	5.09	4.21
27	27	9.5	15.5	ATS1269-ND	6.98	5.17	4.27
29	29	9.5	14.5	ATS1270-ND	7.10	5.26	4.35
30	30	9.5	14.0	ATS1271-ND	7.15	5.30	4.38
31	31	9.5	13.5	ATS1272-ND	7.23	5.35	4.43
32.5	32.5	9.5	12.5	ATS1273-ND	7.28	5.39	4.46
33	33	9.5	12.3	ATS1274-ND	7.30	5.41	4.47
35	35	9.5	11.3	ATS1275-ND	7.35	5.44	4.50
37.5	37.5	9.5	11.1	ATS1276-ND	7.40	5.48	4.53
40	40	9.5	10.0	ATS1277-ND	7.48	5.54	4.58
42.5	42.5	9.5	9.2	ATS1278-ND	7.55	5.44	4.53
45	45	9.5	9.2	ATS1279-ND	7.63	5.49	4.58
15	15	14.5	21.4	ATS1280-ND	7.55	5.44	4.53
17	17	14.5	15.5	ATS1281-ND	7.68	5.53	4.61
19	19	14.5	13.1	ATS1282-ND	7.80	5.62	4.68
21	21	14.5	12.0	ATS1283-ND	7.90	5.69	4.74
23	23	14.5	9.5	ATS1284-ND	8.03	5.78	4.82
25	25	14.5	8.8	ATS1285-ND	7.82	5.87	4.89
27	27	14.5	8.3	ATS1286-ND	7.94	5.96	4.97
29	29	14.5	7.8	ATS1287-ND	8.06	6.05	5.04
30	30	14.5	7.6	ATS1288-ND	8.14	6.11	5.09
31	31	14.5	7.0	ATS1289-ND	8.21	6.16	5.13
32.5	32.5	14.5	6.5	ATS1290-ND	8.28	6.21	5.18
33	33	14.5	6.4	ATS1291-ND	8.33	6.25	5.21
35	35	14.5	5.9	ATS1292-ND	8.35	6.27	5.22
37.5	37.5	14.5	5.6	ATS1293-ND	8.42	6.32	5.27
40	40	14.5	5.1	ATS1294-ND	8.52	6.39	5.33
42.5	42.5	14.5	4.7	ATS1295-ND	8.59	6.45	5.37
45	45	14.5	4.5	ATS1296-ND	8.66	6.50	5.42
15	15	19.5	15.1	ATS1297-ND	7.94	5.96	4.97
17	17	19.5	11.3	ATS1298-ND	8.06	6.05	5.04
19	19	19.5	9.2	ATS1299-ND	8.18	6.14	5.12
21	21	19.5	8.4	ATS1300-ND	8.30	6.23	5.19
23	23	19.5	7.8	ATS1301-ND	8.42	6.32	5.27
25	25	19.5	6.2	ATS1302-ND	8.57	6.43	5.36
27	27	19.5	5.8	ATS1303-ND	8.69	6.52	5.43
29	29	19.5	5.5	ATS1304-ND	8.83	6.63	5.52
30	30	19.5	5.3	ATS1305-ND	8.90	6.68	5.57
31	31	19.5	5.3	ATS1306-ND	8.98	6.74	5.61
32.5	32.5	19.5	4.6	ATS1307-ND	9.07	6.81	5.67
33	33	19.5	4.5	ATS1308-ND	9.10	6.83	5.69
35	35	19.5	4.2	ATS1309-ND	9.14	6.86	5.72
37.5	37.5	19.5	3.9	ATS1310-ND	9.22	6.92	5.76
40	40	19.5	3.6	ATS1311-ND	9.31	6.99	5.82
42.5	42.5	19.5	3.3	ATS1312-ND	9.38	7.04	5.87
45	45	19.5	3.0	ATS1313-ND	9.48	7.11	5.93
15	15	24.5	11.7	ATS1314-ND	9.22	6.92	5.76
17	17	24.5	8.6	ATS1315-ND	9.34	7.01	5.84
19	19	24.5	7.1	ATS1316-ND	9.48	7.11	5.93
21	21	24.5	6.5	ATS1317-ND	9.62	7.02	6.02
23	23	24.5	6.0	ATS1318-ND	9.77	7.13	6.11
25	25	24.5	4.7	ATS1319-ND	9.94	7.25	6.21
27	27	24.5	4.5	ATS1320-ND	10.08	7.35	6.30
29	29	24.5	4.2	ATS1321-ND	9.80	7.46	6.39
30	30	24.5	4.1	ATS1322-ND	9.89	7.53	6.45
31	31	24.5	4.0	ATS1323-ND	9.98	7.60	6.51
32.5	32.5	24.5	3.5	ATS1324-ND	10.07	7.67	6.57
33	33	24.5	3.4	ATS1325-ND	10.12	7.70	6.60
35	35	24.5	3.1	ATS1326-ND	10.17	7.74	6.63
37.5	37.5	24.5	3.0	ATS1327-ND	10.26	7.81	6.69
40	40	24.5	2.6	ATS1328-ND	10.35	7.88	6.75
42.5	42.5	24.5	2.4	ATS1329-ND	10.44	7.95	6.81
45	45	24.5	2.3	ATS1330-ND	10.53	8.02	6.87

(Continued)

ASIC Cooling Solutions

Custom maxiFLOW™ Heat Sinks, Black Anodized

Fig. 1

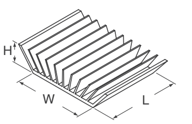

Fig. 2

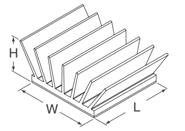

Fig. 3

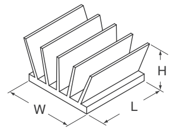

Fig. 4

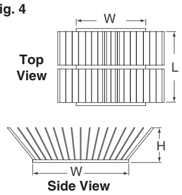

Fig. 5

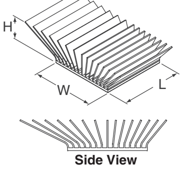

Fig. 6

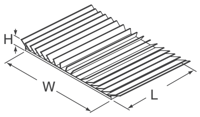

Fig.	Dimensions (mm) L	W	H	Thermal Resistance Unducted Flow @ 200 LFM (1m/sec.)	Ducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10	100
						With Tape			
1	30	30	9	4.0	2.2	ATS1331-ND	11.13	8.47	7.26
	40	30	5	7.9	4.8	ATS1335-ND	13.23	10.18	8.53
	50	45	15	2.8	1.65	ATS1336-ND	17.27	13.35	11.19
	50	45	12.5	3.9	1.7	ATS1337-ND	17.33	14.03	11.76
	45	45	15	2.4	1.7	ATS1338-ND	17.54	14.20	11.90
	50	45	16.5	2.1	1.3	ATS1339-ND	18.44	14.93	12.52
	50	45	8.5	4.0	2.3	ATS1341-ND	13.34	10.26	8.60
	57.5	57.5	12.5	2.3	1.1	ATS1342-ND	22.70	18.51	15.89
2	19	19	9	5.3	3.3	ATS1332-ND†	6.37	4.66	3.80
	25	25	4	9.0	5.2	ATS1333-ND	9.50	7.13	5.94
3	15	15	9	12.0	9.0	ATS1334-ND	12.89	9.92	8.31
4	58	30	9	4.8	2.4	ATS1340-ND	13.14	10.11	8.47
5	42	42	16	2.8	1.4	ATS1343-NDΔ	20.56	16.16	13.96
	42	42	16	2.2	1.2	ATS1344-NDΔ	21.56	17.58	15.10
						Without Tape			
1	30	30	9	4.0	2.2	ATS1345-ND	10.67	8.12	6.96
	40	30	5	7.9	4.8	ATS1349-ND	12.85	9.88	8.28
	50	45	15	2.8	1.65	ATS1350-ND	16.90	13.06	10.95
	50	45	12	3.9	1.7	ATS1351-ND	16.97	13.74	11.52
	45	45	15	2.4	1.7	ATS1352-ND	17.18	13.91	11.66
	57.5	57.5	12.5	2.3	1.1	ATS1356-ND	22.36	18.23	15.66
2	19	19	9	5.3	3.3	ATS1346-ND†	5.85	4.28	3.49
	25	25	4	9.0	5.2	ATS1347-ND	9.02	6.77	5.64
3	15	15	9	12.0	8.0	ATS1348-ND	12.44	9.57	8.02
4	50	45	8.5	4.0	2.3	ATS1355-ND	12.96	9.97	8.36
6	50	45	16	2.1	1.3	ATS1353-ND	18.29	14.38	12.42
	58	30	9	4.8	2.4	ATS1354-ND	12.76	9.81	8.23

† Red Anodized   Δ Gold Anodized

LGA Cooling Solutions (For Freescale MPC 8641D)

Black Anodized, Includes Mounting Hardware

Fig. 1

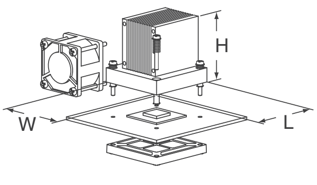

Fig. 2

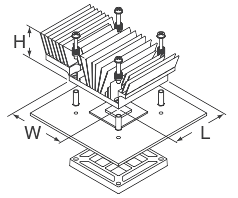

Fig. 3

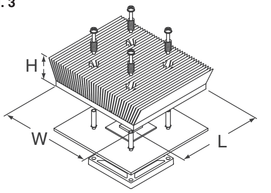

Fig. 4

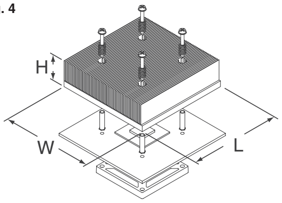

Fig.	Dimensions (mm) L	W	H	Thermal Resistance Unducted Flow @ 200 LFM (1m/sec.)	Ducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10	100
1	56	56	52	—	0.51	ATS1357-ND	72.63	62.25	54.99
2	56	56	31	1.01	0.6	ATS1358-ND	29.74	24.24	20.82
3	94	101	27	1.00	0.5	ATS1359-ND	60.01	50.01	45.01
4	94	94	27	1.38	0.8	ATS1360-ND	52.43	43.36	38.26

Custom Cooling Solutions

Using maxiGRIP™ Attachment For Flip-Chip Processors (such as Freescale MPCs) — Black Anodized, Phase Change Material

Not to be used with maxiGRIP Installation and Removal Tools

Fig. 1

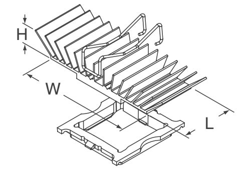

Fig. 2

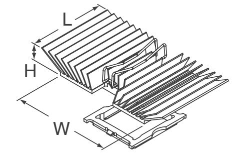

Fig. 3

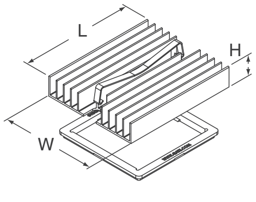

Fig.	Dimensions (mm) L	W	H	Component Size (mm)	Thermal Resistance Unducted Flow @ 200 LFM (1m/sec.)	Ducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10
1	21	45	9	21 x 21	6.1	4.2	ATS1365-ND	27.44	22.37
	28	45	11	21 x 21	4.5	3.0	ATS1366-ND	29.10	23.72
	25	32	13	25 x 25	6.5	3.8	ATS1367-ND	26.94	21.96
2	32	50	12	25 x 25	3.8	2.4	ATS1368-ND	18.92	14.87
	32	50	12	25 x 25	3.2	1.9	ATS1369-ND	19.13	15.04
	29	37	10	29 x 29	6.2	3.8	ATS1370-ND	20.96	16.47
	29	37	11	29 x 29	6.2	3.8	ATS1371-ND	20.10	16.39
	35	46	16.75	35 x 35	2.42	1.6	ATS1372-ND	16.85	13.03
	35	46	16.75	35 x 35	2.42	1.6	ATS1373-ND	16.90	13.06
3	62	52	13	42.5 x 42.5	3.2	1.8	ATS1374-ND†	20.96	16.47
	62	52	13	42.5 x 42.5	3.2	1.8	ATS1375-ND	20.50	16.71

† High Conductivity Thermal Tape

Blue Ice — Low Profile

Custom maxiFLOW™ Heat Sinks BGA Cooling Solutions with Thermal Tape — Blue Anodized

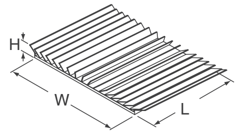

Dimensions (mm) L	W	H	Thermal Resistance Unducted Flow @ 200 LFM (1m/sec.)	Ducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10	100
25.2	25.2	4	14.8	7.8	ATS1376-ND	10.42	7.93	6.80
37.6	37.6	4	7.8	3.8	ATS1377-ND	12.22	9.40	7.88
61	58.2	5.5	4.0	2.3	ATS1378-ND†	12.98	9.99	8.37
61	58.2	7	2.2	1.4	ATS1379-ND	13.43	10.33	8.66
61	58.2	6.1	3.6	2.2	ATS1380-NDΔ	13.21	10.16	8.52

† Gold Anodized   Δ Black Anodized

LED Heat Sinks

For LED Lighting Modules, Black Anodized

Fig. 1

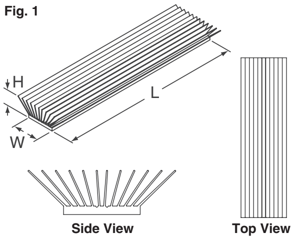

Fig. 2

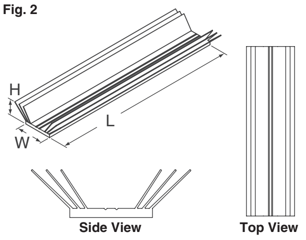

Fig.	Dimensions (mm) L	W	H	Thermal Resistance Unducted Flow @ 200 LFM (1m/sec.)	Digi-Key Part No.	Price Each 1	10	100
1	330	45	26	1.2	ATS1361-ND	29.00	23.64	20.30
	305	45	26	1.3	ATS1362-ND	27.00	22.01	18.90
2	305	45	26	0.6	ATS1363-ND	23.00	18.75	16.10
	305	45	26	0.6	ATS1364-ND†	27.00	22.01	18.90

† Thermal Tape

Heat Sink Pads "The Alternative To Grease"

Sil-Pad 600® is a thermally conductive, silicone elastomer filled with special ingredients to provide higher thermal properties than the original fiberglass based Sil-Pad. This material has excellent physical and mechanical characteristics while remaining cost competitive. (Electrically Insulating Material)

Sil-Pad 900-S® family of thermally conductive insulation materials are designed for low cost applications requiring high thermal performance. Intended as an improved Sil-Pad 600 alternative.

Q-Pad 3® is a thermally conductive, fiberglass reinforced graphite imbedded elastomer which conforms to surface textures extremely well. This material eliminates problems associated with thermal grease such as contamination of electronic assemblies and reflow solder baths. Q-Pad 3 may be installed prior to soldering and cleaning. (Electrically Conducting Material)

Sil-Pad K10® is a thermally conductive Kapton composite film coated with boron nitride filled polyester resin, offering the highest thermal properties of the Kapton insulators with minimum thickness and lower thermal resistance. Designed to replace brittle ceramic insulators. (Electrically Insulating Material)

CPU Pad® is a thermally conductive, electrically insulating, Kapton double coated tape. Typically used between the CPU and heat sink, it was designed to be used in place of clips used to attach heat sink to CPU. No clamping times or high pressure is required.

SPT 400 is a thermally conductive insulation for clip mounted plastic power devices. These TO-220 thermal tubes slip over the semiconductor device and conduct the heat to the heat sink and clip. Designed to be used on heat sinks with metal clips to attach device to heat sink. (Electrically Insulating Material)

HI-FLOW™ 115-AC is a thermally conductive fiber reinforced phase change material. The product consists of a thermally conductive 65° C phase change compound coated on a fiberglass web with an adhesive coating on one side for attachment to a cold heat sink. Handles like a Sil-Pad at room temperature and flows like high quality grease at elevated temperature.

Bond Ply™ 100 is a thermally conductive, double-sided pressure sensitive adhesive tape. The tape consists of a high performance, thermally conductive acrylic adhesive coated with a fiberglass reinforced interweave. Bond Ply 100 is designed to attain high bond strength to a variety of surfaces and to maintain high bond strength with long term exposure to moderate heat and high humidity. Typical Applications: • Mounting a heat sink to a BGA graphic processor • Mounting a heat sink to a computer processor • Mounting a heat sink to a drive processor • Mounting a heat spreader to a power converter PCB • Mounting a heat spreader to a motor control PCB.

Gap Pad™ 1500 is designed to cost-effectively maximize heat transfer from electronic components to heat sinks or heat spreaders. GP 1500 is a highly conformable low-modulus material that fills air gaps due to steps, rough surfaces and high stack-up tolerances. The softness relieves stress and absorbs shocks minimizing damage to delicate leads. GP 1500 is an electrically isolating material that allows its use in applications requiring isolation between heat sinks and high voltage, bare leaded devices.

Gap Pad™ 1500R has the same highly conformable low modulus polymer as the standard Gap Pad™ 1500. The fiberglass reinforcement allows for easy material handling and enhances puncture, shear, and tear resistance. The tacky nature of both sides of the material allows for good compliance to mating surfaces of components, further reducing thermal resistance.

Sil-Pad K-4® uses a specially developed film which has high thermal conductivity, high dielectric strength and is very durable. Sil-Pad K-4 combines the thermal transfer properties of well-known Sil-Pad rubber with the physical properties of a film. Sil-Pad K-4 is a durable insulator that withstands high voltages and requires no thermal grease to transfer heat.

Sil-Pad K-6® is a medium performance film-based thermally conductive insulator. The film is coated with a silicone elastomer to deliver high performance and provides a continuous physically tough dielectric barrier against "cut-through" and resultant assembly failures.

Sil-Pad 1000® has the same excellent mechanical and physical characteristics of our Sil-Pad 400 material while offering a 35% reduction in thermal resistance. Sil-Pad 1000 is a composite of silicone rubber and fiberglass. It is specially filled and offers low thermal resistance. Sil-Pad 1000 is non-toxic and resists damage from cleaning agents. It is flame retardant and specially formulated for use as a thermally conductive insulator.

Sil-Pad 2000® is Bergquist's high performance, high reliability, thermally conductive insulator. Sil-Pad 2000 is designed for demanding military/aerospace and commercial applications. In these applications, Sil-Pad 2000 complies with military standards. This silicone elastomer is specially filled to maximize the thermal and dielectric performance of the filler/binder matrix. The result is a "grease-free", conformable material capable of meeting or exceeding the thermal and electrical requirements of high reliability electronic packaging applications.

Gap-Pad® VO Ultra Soft is recommended for extremely low stress applications. The viscoelastic nature of the material also gives excellent low stress vibration dampening and shock absorbing characteristics. Gap Pad VO Ultra Soft is an electrically isolating material which allows its use in applications requiring isolation between heat sinks and high voltage and bare leaded devices.

Fig. 1

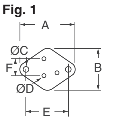

Fig. 2

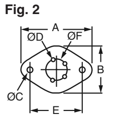

Fig. 3

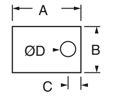

Fig. 4

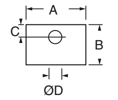

Fig. 5

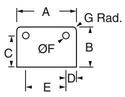

Fig. 6

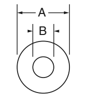

Fig. 7

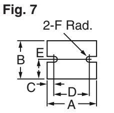

Fig. 8

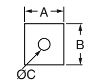

Fig. 9

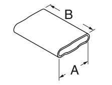

Fig. 10

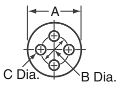

Fig.	Device Type	Dimensions – Inch (mm)							Digi-Key	Price Each				Bergquist
		A	B	C	D	E	F	G	Part No.	1	10	50	100	Part No.
1	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER100-ND	1.09	.98	.88	.78	SP600-05
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER172-ND	1.09	.98	.88	.78	SP900S-05
		1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER101-ND	1.17	1.05	.94	.84	SP600-02
		1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER171-ND	1.06	.95	.85	.75	SP900S-02
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER111-ND	2.32	2.08	1.86	1.65	K10-05
		1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER112-ND	2.60	2.33	2.09	1.85	K10-02
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER122-ND	.71	.63	.57	.50	Q3-05
		1.250 (31.75)	.700 (17.78)	.140 (3.56)	.062 (1.57)	.960 (24.38)	.200 (5.08)	—	BER152-ND	1.03	.93	.83	.74	K10-30
	TO-3 / TO-66	1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER209-ND*	.63	.56	.51	.45	7403-09FR-02
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER203-ND*	.60	.54	.49	.43	3223-07FR-05
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER212-ND*	.60	.54	.49	.43	7403-09FR-05
		1.65 (41.91)	1.14 (28.96)	.122 (3.10)	.062 (1.57)	1.187 (30.15)	.430 (10.92)	—	BER211-ND*	.60	.54	.49	.43	7403-09FR-04
		1.563 (39.70)	1.05 (26.67)	.140 (3.56)	.080 (2.03)	1.187 (30.15)	.430 (10.92)	—	BER210-ND*	.58	.52	.47	.42	7403-09FR-03
		1.312 (33.32)	.762 (19.35)	.140 (3.56)	.062 (1.57)	.960 (24.38)	.200 (5.08)	—	BER218-ND*	.53	.48	.43	.38	7403-09FR-11
2	TO-3 (4PIN)	1.56 (39.62)	1.05 (26.67)	.156 (39.62)	.080 (2.03)	1.170 (29.72)	.470 (11.94)	—	BER139-ND	.72	.65	.58	.51	SP600-86
		1.56 (39.62)	1.05 (26.67)	.156 (39.62)	.080 (2.03)	1.170 (29.72)	.470 (11.94)	—	BER140-ND	1.49	1.33	1.19	1.06	K10-86
		1.56 (39.62)	1.05 (26.67)	.156 (39.62)	.080 (2.03)	1.170 (29.72)	.470 (11.94)	—	BER141-ND	.49	.45	.40	.35	Q3-86
3	TO-247AC	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER178-ND	.82	.74	.66	.59	SP900S-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER120-ND	1.36	1.22	1.09	.97	K10-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER131-ND	.63	.56	.51	.45	Q3-104
	TO-220	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER200-ND	1.68	1.51	1.35	1.20	2015-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER204-ND*	.51	.46	.41	.37	3223-07FR-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER221-ND	.66	.60	.54	.47	K6-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER109-ND	.63	.57	.51	.45	SP600-104
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER208-ND*	.50	.45	.41	.36	3223-07FR-90
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER217-ND*	.50	.45	.41	.36	7403-09FR-90
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER102-ND	.73	.66	.59	.52	SP600-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER176-ND	.73	.66	.59	.52	SP900S-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER103-ND	.73	.66	.59	.52	SP600-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER175-ND	.73	.66	.59	.52	SP900S-54
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER110-ND	.73	.66	.59	.52	SP600-43
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER174-ND	.73	.66	.59	.52	SP900S-43
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER113-ND	1.02	.92	.82	.73	K10-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER114-ND	.82	.74	.66	.59	K10-54
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER121-ND	1.02	.92	.82	.73	K10-43
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER124-ND	.60	.54	.49	.43	Q3-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER125-ND	.60	.54	.49	.43	Q3-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER198-ND	.57	.51	.46	.41	1009-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER201-ND	1.07	.96	.86	.76	2015-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER206-ND*	.48	.43	.39	.34	3223-07FR-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER215-ND*	.48	.43	.39	.34	7403-09FR-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER219-ND	.54	.49	.44	.39	K4-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER199-ND	.57	.51	.46	.41	1009-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER202-ND	1.07	.96	.86	.76	2015-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER207-ND*	.48	.43	.39	.34	3223-07FR-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER216-ND*	.48	.43	.39	.34	7403-09FR-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER220-ND	.54	.49	.44	.39	K4-58
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER132-ND	.60	.54	.49	.43	Q3-43
		.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER205-ND*	.48	.43	.39	.34	3223-07FR-51
		.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER214-ND*	.48	.43	.39	.34	7403-09FR-51
		.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER146-ND	.72	.65	.58	.52	K10-51
		.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER147-ND	.43	.39	.35	.31	Q3-51
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER108-ND	.80	.72	.64	.57	SP600-90
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER177-ND	.80	.72	.64	.57	SP900S-90
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER119-ND	1.26	1.13	1.01	.90	K10-90
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER130-ND	.62	.56	.50	.44	Q3-90
4	MULTI	.945 (24.00)	.827 (21.01)	.196 (4.98)	.150 (3.81)	—	—	—	BER107-ND	.83	.75	.67	.59	SP600-114
		.945 (24.00)	.827 (21.01)	.196 (4.98)	.150 (3.81)	—	—	—	BER180-ND	.83	.75	.67	.59	SP900S-114
		.945 (24.00)	.827 (21.01)	.196 (4.98)	.150 (3.81)	—	—	—	BER118-ND	1.38	1.24	1.11	.98	K10-114
5	SIP	1.450 (36.83)	.838 (21.29)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER106-ND	.94	.84	.75	.67	SP600-105
		1.450 (36.83)	.838 (21.29)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER117-ND	1.76	1.58	1.42	1.25	K10-105
		1.450 (36.83)	.838 (21.29)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER179-ND	.94	.84	.75	.67	SP900S-105
6	DO-5	1.00 (25.40)	.260 (6.60)	—	—	—	—	—	BER105-ND	.88	.79	.71	.63	SP600-25
		1.00 (25.40)	.260 (6.60)	—	—	—	—	—	BER173-ND	.88	.79	.71	.63	SP900S-25
		1.00 (25.40)	.260 (6.60)	—	—	—	—	—	BER116-ND	1.57	1.41	1.26	1.12	K10-25
7	SIP Module	1.50 (38.10)	.900 (22.86)	.150 (3.81)	1.20 (30.48)	.450 (11.43)	.075 (1.91)	—	BER136-ND	.48	.43	.39	.34	Q3-67
		2.50 (63.50)	2.00 (50.80)	.344 (8.74)	1.81 (46.02)	1.00 (25.40)	.156 (3.96)	—	BER137-ND	.65	.58	.52	.46	Q3-101

* Made of SP400 material.

(Continued)

Heat Sink Pads “The Alternative To Grease” *(Cont.)*

Fig.	Device Type	Dimensions – Inch (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Price Each 1	10	50	100	Bergquist Part No.
8	CPU	.63 (16.00)	.63 (16.00)	—	—	—	—	—	BER133-ND	.52	.47	.42	.38	CPU .63X.63
		1.375 (34.93)	1.375 (34.93)	—	—	—	—	—	BER135-ND	.86	.78	.70	.62	CPU 1.375X1.375
	Bridge Rect.	1.00 (25.40)	1.00 (25.40)	.187 (4.75)	—	—	—	—	BER142-ND	.46	.42	.37	.33	Q3-48
		1.25 (31.75)	1.25 (31.75)	.200 (5.08)	—	—	—	—	BER144-ND	.49	.44	.39	.35	Q3-46
		1.25 (31.75)	1.25 (31.75)	.200 (5.08)	—	—	—	—	BER145-ND	1.44	1.29	1.15	1.02	K10-46
9	TO-220 Tubes	.433 (11.00)	.985 (25.02)	—	—	—	—	—	BER156-ND	.73	.66	.59	.52	SPT400 -12-11-25
	TO-247 Tubes	.532 (13.50)	.985 (25.02)	—	—	—	—	—	BER157-ND	.89	.80	.72	.64	SPT400-12- 13.5-25
10	TO-5	.360 (9.14)	.200 (5.08)	.040 (1.02)	—	—	—	—	BER213-ND*	.46	.41	.37	.33	7403-09FR-09
“Hi-Flow™ ” Single Side Adhesive Backed Pads (Phase Change)														
1	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER166-ND	.28	.25	.23	.20	HF115TAAC-05
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER167-ND	.10	.09	.08	.07	HF115TAAC-54
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER168-ND	.10	.09	.08	.07	HF115TAAC-58
3	TO-218	.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER169-ND	.12	.10	.09	.08	HF115TAAC-90
5	SIP	1.450 (36.83)	.830 (21.08)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER170-ND	.14	.13	.11	.10	HF115TAAC-105
“SP900” Single Side Adhesive Backed Pads (Low Mounting Pressure)														
1	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER181-ND	1.14	1.03	.92	.81	SP900EAAC-05
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER182-ND	.74	.67	.60	.53	SP900EAAC-54
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER183-ND	.74	.67	.60	.53	SP900EAAC-58
“Bond Ply™ 100” Double Sided Thermal Tape														
Double Sided Adhesive Thermal Pad, .005” (.127) Thick, 11” x 12” (27.94 x 30.48cm) Square Sheet									BER246-ND	41.44	36.98	33.15	29.33	BOND PLY 105 11x12”
Double Sided Adhesive Thermal Pad, .008” (.203) Thick, 10” (25.4cm) Square Sheet									BER159-ND	50.99	45.51	40.80	36.09	BOND PLY 108 10x10”
Double Sided Adhesive Thermal Pad, .011” (.279) Thick, 10” (25.4cm) Square Sheet									BER160-ND	63.77	56.90	51.02	45.13	BOND PLY 111 10x10”
“Gap Pad™ 1500” Thermal Gap Filling Material														
High Thermally Conductive Pad, .020” (.508) Thick, 4” (10.16cm) Square Sheet									BER161-ND	9.98	8.91	7.99	7.07	.020 GP 1500 4” X 4”
High Thermally Conductive Pad, .040” (1.02) Thick, 4” (10.16cm) Square Sheet									BER162-ND	14.33	12.79	11.47	10.15	.040 GP 1500 4” X 4”
High Thermally Conductive Pad, .060” (1.52) Thick, 4” (10.16cm) Square Sheet									BER163-ND	16.45	14.68	13.16	11.64	.060 GP 1500 4” X 4”
High Thermally Conductive Pad, .080” (2.03) Thick, 4” (10.16cm) Square Sheet									BER164-ND	19.44	17.35	15.55	13.76	.080 GP 1500 4” X 4”
High Thermally Conductive Pad, .125” (3.18) Thick, 4” (10.16cm) Square Sheet									BER165-ND	26.39	23.55	21.12	18.68	.125 GP 1500 4” X 4”
High Thermally Conductive Pad, .040” (1.02) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER227-ND	86.26	76.97	69.01	61.05	.040 GP 1500 8” X 16”
High Thermally Conductive Pad, .060” (1.52) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER228-ND	96.85	86.42	77.48	68.54	.060 GP 1500 8” X 16”
High Thermally Conductive Pad, .080” (2.03) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER229-ND	110.92	98.98	88.74	78.50	.080 GP 1500 8” X 16”
High Thermally Conductive Pad, .125” (3.18) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER230-ND	189.31	168.93	151.45	133.98	.125 GP 1500 8” X 16”
“Gap Pad™ 1500R” Thermal Gap Filling Material														
High Thermally Conductive Pad, .010” (.254) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER231-ND	54.21	48.38	43.37	38.37	GP1500R 10 MIL 8” x 16”
High Thermally Conductive Pad, .015” (.381) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER232-ND	63.25	56.44	50.60	44.76	GP1500R 15 MIL 8” x 16”
High Thermally Conductive Pad, .020” (.508) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER233-ND	72.96	65.11	58.37	51.64	GP1500R 20 MIL 8” x 16”
“Gap Pad™ VO Ultra Soft” Thermal Gap Filling Material														
High Thermally Conductive Pad, .020” (.508) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER222-ND	72.05	64.30	57.65	51.00	.020 GP US 8” X 16”
High Thermally Conductive Pad, .040” (1.02) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER223-ND	90.61	80.86	72.49	64.13	.040 GP US 8” X 16”
High Thermally Conductive Pad, .060” (1.52) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER224-ND	101.66	90.72	81.33	71.95	.060 GP US 8” X 16”
High Thermally Conductive Pad, .080” (2.03) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER225-ND	116.48	103.94	93.19	82.44	.080 GP US 8” X 16”
High Thermally Conductive Pad, .125” (3.18) Thick, 8” x 16” (20.32 x 40.64cm) Sheet									BER226-ND	193.38	172.55	154.70	136.85	.125 GP US 8” X 16”

* Made of SP400 material

MICA Insulators for Transistor Mounting

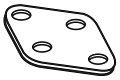

These precision stamped MICA Insulators provide good thermal conductivity (.009 watts per square inch per °C per inch in thickness). Excellent thermal resistance 1100°F (593°C). Dielectric constant of 7 at 1000KHz.

Specifications: .003” (.08mm) thick MICA ± .001” (± .03mm)

Fig. 1

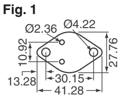

Fig. 2

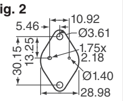

Fig. 3

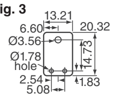

Fig. 4

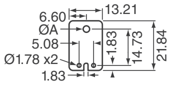

“A” Dim. (Dia.)
4672K: 3.58mm
4673K: 2.92mm

Fig.	Digi-Key Part No.	Pricing 10	100	500	1,000	Keystone Part No.
1	4651K-ND	1.19	7.55	32.25	42.70	4651
2	4662K-ND	1.30	8.25	36.00	46.75	4662
3	4671K-ND	1.26	7.40	31.43	30.30	4671
4	4672K-ND	.98	7.41	31.47	22.15	4672
4	4673K-ND	.98	7.41	31.47	22.15	4673

Transistor Sockets

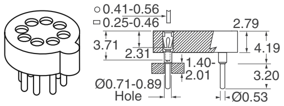

Plating:
Sleeve (Pin):200μ”
Sn/Pb (RoHS Compliant: 200μ” Sn);
Contact (Clip): 30μ” Au

No. of Pins	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
TO-5 Package					
3	ED2150-ND	1.29	1.10	.90	917-93-103-41-005000
3	ED90273-ND◆	1.77	1.50	1.23	917-43-103-41-005000
4	ED2151-ND	1.39	1.18	.97	917-93-104-41-005000
4	ED90274-ND◆	1.87	1.59	1.30	917-43-104-41-005000
8	ED2152-ND	1.80	1.53	1.25	917-93-108-41-005000
8	ED90275-ND◆	2.30	1.95	1.60	917-43-108-41-005000
TO-100 Package					
8	ED2153-ND	1.80	1.53	1.25	917-93-208-41-005000
8	ED90276-ND◆	2.30	1.95	1.60	917-43-208-41-005000
10	ED2154-ND	2.64	2.24	1.83	917-93-210-41-005000
10	ED90277-ND◆	2.78	2.36	1.93	917-43-210-41-005000

◆ ***RoHS Compliant***

TO-3 Power Transistor Sockets

Fig. 1

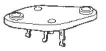

Chassis Mount
- Top Plate: Molded Nylon
- Base: Phenolic
- Dimensions: 1.53”x.073” (38.86mm x 1.85mm)
- Standoffs: 0.09” (2.29mm)

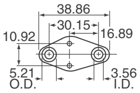

Fig. 2

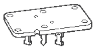

Chassis Mount
- Top Plate: Phenolic
- Base: Phenolic
- Dimensions: 1.35”x1.00” (34.29mm x 25.40mm)
- Standoffs: None

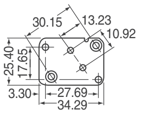

Fig. 3

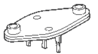

P.C. Board Mount
- Top Plate: Molded Nylon
- Base: Phenolic
- Dimensions: 1.53”x.073” (38.86mm x 1.85mm)
- Standoffs: 0.09” (2.29mm)

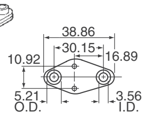

Transistor Mounting Hardware

Fig. 4A

TO-220
Complete Mounting Kit
(one each of A, B, C, D, E)

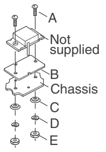

Fig. 4B

TO-3
Complete Mounting Kit
(A*, B, C, D, E, F, G)

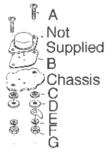

* **6-20** Mounting Screws
(A Only, 2 Required)

Fig.	Digi-Key Part No.	Price Each 1	10	100	Keystone Part No.
1	4601K-ND	1.88	1.75	1.63	4601
2	4606K-ND	1.60	1.49	1.32	4606
3	4600K-ND	1.68	1.57	1.39	4600
4A	4724K-ND	1.95	1.81	1.16	4724
4B	4725K-ND	1.95	1.81	1.16	4725
4B	4706K-ND*	2.68/20	19.90/200		4706

Heat Sink Pads

Asahi Rubber offers an excellent product for applications requiring a thermal solution. The ART Series is a thermally conductive silicone gel that can be cut as required.

Features:
- Color: Gray
- Dimensions: 11.81” x 8.46” (300mm x 215mm)
- Thickness range: 0.3 mm to 2.0 mm
- Operating Temperature Range: -60°C ~ 200°C

Thickness Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	Asahi Part No.
.01 (0.3)	509-1000-ND	48.12	44.11	39.30	ART03
.02 (0.5)	509-1001-ND	53.01	48.60	43.30	ART05
.04 (1.0)	509-1002-ND	76.59	70.21	62.55	ART10
.06 (1.5)	509-1003-ND	98.19	90.01	80.19	ART15
.08 (2.0)	509-1004-ND	120.12	110.11	98.10	ART20

TO-220 Solder Tail Transistor Sockets

P.C. Board Mount: .100” (2.54mm) center. These three circuit transistor sockets are preassembled and ready for soldering to a P.C. Board. The proven double cantilever design eliminates circuit failure due to thermal expansion and/or mechanical tolerances.

Linear movement of the transistor leads in the socket does not affect contact reliability.

Material: Tin-Plated Brass, 94V-2 Rated Nylon

Fig. 1

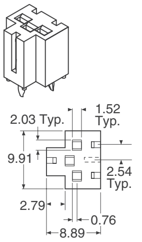

Fig. 2

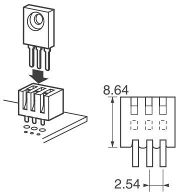

Fig.	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	WM2550-ND	1.63	1.45	.97	09-48-3031
2	WM2551-ND	2.05	1.81	1.21	10-18-2031

CTS Heat Sinks

CTS Electronic Components (California) Inc. has helped pioneer the development of semiconductor heat sinks since 1954. Primarily used by all levels of OEM's engaged in the manufacture of commercial and military equipment, CTS maintains stock and support from prototype through production. CTS has prided themselves for their flexible manufacturing, quality products and on-time delivery. Clip-On versions have a built-in clip for attaching a device to a heat sink without additional hardware, positive locks prevent the semiconductor from sliding out. TO-220 versions will also fit TO-202, TO-218 and TO-126 packages. Wattage values listed are at still air conduction only. Moving air will increase this value.

Fig. 1

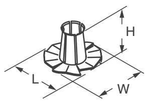

Fig. 2

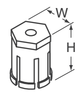

Fig. 3

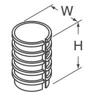

Fig. 4

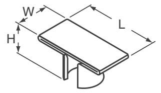

Fig. 5

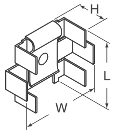

Fig. 6

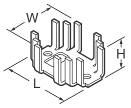

Fig. 7

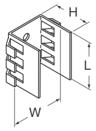

Fig. 8

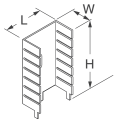

Fig. 9

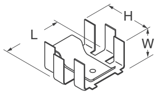

Fig. 10

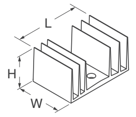

Fig.	Description	Dimensions - Inch (mm) L x W x H	Thermal Res. C/Watt	Digi-Key Part No.	Price Each			CTS Part No.
					1	10	100	
1	TO-5, Single Fan Top, Black, .5W	.750 x .750 x .250 (19.05 x 19.05 x 6.35)	81.10	294-1122-ND	5.95	5.36	4.17	TXBF-032-025B
	TO-5, Single Fan Top, Unplated, .5W	.750 x .750 x .250 (19.05 x 19.05 x 6.35)	81.10	294-1144-ND◆	2.33	2.10	1.63	TXBF-032-025U
	TO-18, Single Fan Top, Black, .5W	.500 x .500 x .250 (12.70 x 12.70 x 6.35)	150.00	294-1004-ND	5.33	4.80	3.74	TXBF-019-025B
	TO-18, Single Fan Top, Unplated, .5W	.500 x .500 x .250 (12.70 x 12.70 x 6.35)	150.00	294-1140-ND◆	1.48	1.33	1.04	TXBF-019-025U
2	TO-5, Press-On Mount, w/Hardware, Black, 1W	— x .380 x .310 (— x 9.65 x 7.87)	73.17	294-1120-ND	20.43	18.39	14.30	TXB2P-032-037B
	TO-5, Press-On Mount, w/Hardware, Nickel, 1W	— x .380 x .310 (— x 9.65 x 7.87)	73.17	294-1142-ND◆	24.35	21.92	17.05	TXB2P-032-037ND
	TO-5, Press-On Mount, Nickel, 1W	— x .380 x .310 (— x 9.65 x 7.87)	73.17	294-1143-ND◆	4.80	4.32	3.36	TXBE-032-031ND
	TO-8, Press-On Mount, w/out Hardware, Black, 1W	— x .380 x .310 (— x 9.65 x 7.87)	73.17	294-1118-ND	16.45	14.81	11.52	TXB2-032-037B
	TO-18, Press-On Mount, w/Hardware Black, 5W	— x .220 x .340 (— x 5.59 x 8.64)	150.26	294-1123-ND	39.30	35.37	27.51	TXP1808B
	TO-18, Press-On Mount, w/Hardware, Black, .6W	— x .220 x .280 (— x 5.59 x 7.11)	150.26	294-1119-ND	18.23	16.41	12.76	TXB2P-019-028B
	TO-18, Press-On Mount, w/Hardware, Nickel .6W	— x .220 x .280 (— x 5.59 x 7.11)	150.26	294-1141-ND◆	19.45	17.51	13.62	TXB2P-019-028ND
3	TO-5, Press-On Mount, Black, 2W	— x .440 x .500 (— x 11.18 x 12.70)	35.00	294-1105-ND◆	3.23	2.91	2.26	7-120-BA
4	TO-5, Press-On Mount, Black, 1W	.700 x .325 x .250 (17.78 x 8.26 x 6.35)	58.00	294-1106-ND◆	2.35	2.12	1.65	7-175-BA
5	TO-220, Vertical/Horizontal Clip-on Mount, Black, 1.5W	.810 x 1.00 x .310 (20.57 x 25.40 x 7.87)	140.50	294-1115-ND◆	1.51	1.36	1.06	PSC2-2CB
6	TO-220, Power Horizontal Mount, Black 2W	1.63 x 1.29 x .750 (41.40 x 32.77 x 19.05)	13.60	294-1113-ND◆	2.71	2.44	1.90	LAT0127B3CB
	TO-220, Power Horizontal Mount, 8W	1.31 x .90 x .750 (33.27 x 22.86 x 19.05)	17.00	294-1036-ND◆	2.03	1.83	1.42	LAE66A3CB
7	TO-220, Horizontal/Vertical Mount w/Tabs, Black, 2.5W	.710 x .800 x .500 (18.03 x 20.32 x 12.70)	30.00	294-1107-ND◆	1.27	1.15	.90	7-361-BA
	TO-220, Horizontal/Vertical Mount w/Tabs, Black, 2W	.710 x .800 x .340 (18.03 x 20.32 x 8.64)	38.00	294-1108-ND◆	1.27	1.15	.90	7-362-BA
	TO-220, Horizontal Mount, 3W (No Mounting Hole)	1.09 x .620 x 1.31 (27.69 x 15.75 x 33.27)	30.00	294-1013-ND◆	.66	.52	.39	7-300-000-BA
8	TO-220, Vertical Mount, 3W	.750 x .375 x .750 (19.05 x 9.52 x 19.05)	25.00	294-1011-ND◆	1.32	.95	.67	7-195-2-BA
	TO-220, Vertical/Horizontal Mount w/Tabs, Nickel, 3W	1.25 x .880 x .250 (31.75 x 22.35 x 6.35)	25.40	294-1114-ND◆	2.89	2.61	2.03	PSB2-1ND
	TO-220, Vertical PC Mount w/Tabs, 5W	1.00 x .500 x 1.18 (25.40 x 12.70 x 29.97)	20.00	294-1042-ND◆	1.58	1.42	1.11	PB1-36CB
	TO-220, Vertical PC Mount w/Board Locks	1.00 x .500 x 1.18 (25.40 x 12.70 x 29.97)	28.00	294-1043-ND◆	4.15	3.74	2.91	PB1ST-69CB
	TO-220, Vertical PC Mount w/Tabs, 6W	.880 x .250 x 1.25 (22.35 x 6.35 x 31.75)	25.40	294-1045-ND◆	1.81	1.42	1.06	PSB2-1CB
9	TO-220, High Efficiency, 3W	.710 x .310 x 1.00 (18.03 x 7.87 x 25.40)	30.00	294-1040-ND◆	1.77	1.39	1.04	PA2-1CB
	TO-220, High Efficiency, 4W	.710 x .500 x 1.00 (18.03 x 12.70 x 25.40)	26.80	294-1039-ND◆	1.78	1.40	1.04	PA1-1CB
	TO-220, Low Profile Clip-On, w/ Antirotation, Black	.810 x .310 x 1.00 (20.57 x 7.87 x 25.40)	40.50	294-1049-ND	1.33	.95	.67	PSC2T-2CB
10	TO-220, Power Vertical Mount, 7W	1.15 x .460 x .750 (29.21 x 11.68 x 19.05)	14.00	294-1034-ND◆	3.73	3.36	2.62	7-340-1PP-BA
	TO-220, Power Horizontal Mount, 7W	1.15 x .460 x .750 (29.21 x 11.68 x 19.05)	14.00	294-1035-ND◆	3.74	3.37	2.62	7-340-3PP-BA
	Dual TO-220, Universal Mount, 9W	1.50 x 1.15 x .460 (38.10 x 29.21 x 11.68)	7.00	294-1080-ND◆	3.32	2.99	2.33	7-340-2PP-BA
11	TO-220, Power Vertical Mount w/Pins, 11W	1.38 x .500 x 1.50 (35.05 x 6.35 x 38.10)	13.00	294-1024-ND◆	6.93	6.24	4.85	7-338-1PP-BA
	TO-220, Power Vertical Mount w/Pins, 11W	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	11.00	294-1029-ND◆	8.44	7.60	5.91	7-339-1PP-BA
	TO-220, Power Vertical Mount w/Pins, 15W	1.65 x 1.00 x 2.00 (41.91 x 25.40 x 50.80)	5.00	294-1031-ND◆	8.91	8.02	6.24	7-339-3PP-BA
	TO-220, Power Vertical Mount w/Pins, 17W	1.38 x .500 x 2.50 (35.05 x 6.35 x 63.50)	4.00	294-1027-ND◆	7.88	7.09	5.52	7-338-4PP-BA
	TO-220, Power Vertical Mount w/Pins, 17W	1.65 x 1.00 x 2.50 (41.91 x 25.40 x 63.50)	4.00	294-1032-ND◆	9.37	8.44	6.56	7-339-4PP-BA
12	TO-220, Power Horizontal/Vertical Mount, 12W	.750 x 2.00 x .553 (19.05 x 50.80 x 14.05)	9.00	294-1067-ND◆	3.55	3.20	2.49	7-345-1PP-BA
	TO-220, Power Horizontal Mount, 12W	.750 x 2.00 x .553 (19.05 x 50.80 x 14.05)	9.00	294-1068-ND◆	3.55	3.20	2.49	7-345-3PP-BA
	Dual TO-220, Power Universal Mount, 15W	1.50 x 2.00 x .553 (38.10 x 50.80 x 14.05)	4.00	294-1082-ND◆	3.95	3.56	2.77	7-345-2PP-BA
13	Dual TO-220, Vertical w/Tabs, Black, 4W	1.50 x .500 x 1.18 (38.10 x 12.70 x 29.97)	15.00	294-1117-ND◆	1.13	1.02	.79	PSE1-2CB
14	Triple TO-220, Vertical Mount, 7W	1.61 x .750 x .690 (40.89 x 19.05 x 17.53)	9.00	294-1085-ND◆	8.55	7.70	5.99	7-342-1PP-BA
	Six TO-220, Horizontal Mount, 15W	1.61 x 1.50 x .690 (40.89 x 38.10 x 17.53)	4.00	294-1086-ND◆	4.34	3.91	3.04	7-342-2PP-BA
15	TO-3, Power Cap, Spacesaver, 2W	1.56 x 1.06 x .500 (39.62 x 26.92 x 12.70)	32.00	294-1095-ND◆	6.59	5.93	4.62	7-423-BA
16	TO-3, Power Horizontal Mount, Black, 8W	1.78 x 1.78 x 1.00 (45.21 x 45.21 x 25.40)	7.10	294-1124-ND◆	3.87	3.49	2.71	UP-TO3-CB
	TO-3, Power Horizontal Mount, 15W	2.50 x 2.50 x .900 (63.50 x 63.50 x 22.86)	5.40	294-1088-ND◆	5.19	4.67	3.64	HP1-TO3-CB
17	TO-3, Power Horizontal Mount, 12W	1.63 x 1.29 x 1.25 (41.40 x 32.77 x 31.75)	11.10	294-1092-ND◆	3.99	3.59	2.79	LA363B5CB
18	Various Semiconductor, Adhesive Backed	.910 x .910 x .355 (23.11 x 23.11 x 9.02)	26.90	294-1097-ND◆	2.95	2.66	2.07	BDN09-3CB/A01
	Various Semiconductor, Adhesive Backed	1.01 x 1.01 x .355 (25.65 x 25.65 x 9.02)	26.40	294-1098-ND◆	3.03	2.73	2.12	BDN10-3CB/A01
	Various Semiconductor, Adhesive Backed	1.11 x 1.11 x .355 (28.19 x 28.19 x 9.02)	20.90	294-1109-ND◆	3.05	2.75	2.14	BDN11-3CB/A01
	Various Semiconductor, Adhesive Backed	1.21 x 1.21 x .355 (30.73 x 30.73 x 9.02)	19.60	294-1099-ND◆	3.15	2.84	2.21	BDN12-3CB/A01
	Various Semiconductor, Adhesive Backed	1.21 x 1.21 x .555 (30.73 x 30.73 x 14.10)	16.50	294-1110-ND◆	3.35	3.02	2.35	BDN12-5CB/A01

◆ ***RoHS Compliant***

(Continued)

Fig. 11

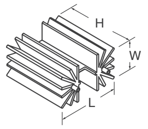

Fig. 12

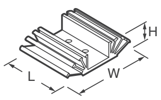

Fig. 13

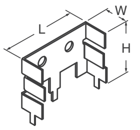

Fig. 14

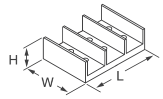

Fig. 15

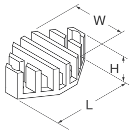

Fig. 16

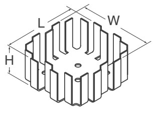

Fig. 17

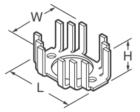

Fig. 18

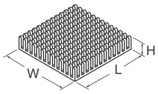

Fig. 19

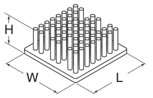

Fig. 20

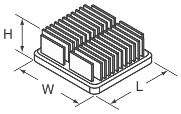

Fig.	Description	Dimensions - Inch (mm) L x W x H	Thermal Res. C/Watt	Digi-Key Part No.	Price Each			CTS Part No.
					1	10	100	
18	Various Semiconductor, Adhesive Backed	1.31 x 1.31 x .355 (33.27 x 33.27 x 9.02)	16.10	294-1100-ND◆	3.30	2.97	2.31	BDN13-3CB/A01
	Various Semiconductor, Adhesive Backed	1.41 x 1.41 x .355 (35.81 x 35.81 x 9.02)	16.20	294-1101-ND◆	3.48	3.13	2.44	BDN14-3CB/A01
	Various Semiconductor, Adhesive Backed	1.51 x 1.51 x .355 (38.35 x 38.35 x 9.02)	15.10	294-1102-ND◆	3.98	3.58	2.79	BDN15-3CB/A01
	Various Semiconductor, Adhesive Backed	1.61 x 1.61 x .355 (40.89 x 40.89 x 9.02)	13.50	294-1103-ND◆	4.08	3.67	2.86	BDN16-3CB/A01
	Various Semiconductor, Adhesive Backed	1.71 x 1.71 x .355 (43.43 x 43.43 x 9.02)	11.50	294-1111-ND◆	4.18	3.77	2.93	BDN17-3CB/A01
	Various Semiconductor, Adhesive Backed	1.81 x 1.81 x .355 (45.97 x 45.97 x 9.02)	10.80	294-1104-ND◆	4.43	3.99	3.10	BDN18-3CB/A01
	Various Semiconductor, Adhesive Backed	1.81 x 1.81 x .605 (45.97 x 45.97 x 15.37)	8.10	294-1112-ND◆	4.80	4.32	3.36	BDN18-6CB/A01
19	Various SMT Semiconductor	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1125-ND◆	4.60	4.14	3.22	APR27-27-12CB
	Various SMT Semiconductor, with Thermal Tape	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1126-ND◆	6.16	5.55	4.32	APR27-27-12CB/A01
	Various SMT Semiconductor, with Short Clip	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1127-ND◆	6.25	5.63	4.38	APR27-27-12CB/S
	Various SMT Semiconductor, with Medium Clip	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1128-ND◆	6.25	5.63	4.38	APR27-27-12CB/M
	Various SMT Semiconductor, with Tall Clip	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1129-ND◆	6.25	5.63	4.38	APR27-27-12CB/T
	Various SMT Semiconductor	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1130-ND◆	5.15	4.64	3.61	APR33-33-12CB
	Various SMT Semiconductor, with Thermal Tape	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1131-ND◆	6.20	5.58	4.34	APR33-33-12CB/A01
	Various SMT Semiconductor, with Short Clip	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1132-ND◆	6.83	6.15	4.78	APR33-33-12CB/S
	Various SMT Semiconductor, with Medium Clip	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1133-ND◆	6.83	6.15	4.78	APR33-33-12CB/M
	Various SMT Semiconductor, with Tall Clip	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1134-ND◆	6.83	6.15	4.78	APR33-33-12CB/T
	Various SMT Semiconductor	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1135-ND◆	5.30	4.77	3.71	APR38-38-12CB
	Various SMT Semiconductor, with Thermal Tape	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1136-ND◆	6.35	5.72	4.45	APR38-38-12CB/A01
	Various SMT Semiconductor, with Short Clip	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1137-ND◆	6.95	6.26	4.87	APR38-38-12CB/S
	Various SMT Semiconductor, with Medium Clip	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1138-ND◆	6.95	6.26	4.87	APR38-38-12CB/M
	Various SMT Semiconductor, with Tall Clip	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1139-ND◆	6.95	6.26	4.87	APR38-38-12CB/T
20	Heatsink Low-Profile Forged	.748 x .748 x .248 (19 x 19 x 6.3)	7.05	294-1145-ND◆	4.65	4.19	3.26	APF19-19-06CB
	Heatsink Forged with Adhesive Tape	.748 x .748 x .248 (19 x 19 x 6.3)	7.05	294-1146-ND◆	6.16	5.55	4.32	APF19-19-06CB/A01
	Heatsink Low-Profile Forged	.748 x .748 x .374 (19 x 19 x 9.5)	5.25	294-1147-ND◆	4.79	4.32	3.36	APF19-19-10CB
	Heatsink Forged with Adhesive Tape	.748 x .748 x .374 (19 x 19 x 9.5)	5.25	294-1148-ND◆	6.32	5.69	4.43	APF19-19-10CB/A01
	Heatsink Low-Profile Forged	.748 x .748 x .500 (19 x 19 x 12.7)	3.95	294-1149-ND◆	4.94	4.45	3.46	APF19-19-13CB
	Heatsink Forged with Adhesive Tape	.748 x .748 x .500 (19 x 19 x 12.7)	3.95	294-1150-ND◆	5.98	5.38	4.19	APF19-19-13CB/A01
	Heatsink Low-Profile Forged	1.181 x 1.181 x .248 (30 x 30 x 6.3)	4.35	294-1151-ND◆	5.93	5.34	4.15	APF30-30-06CB
	Heatsink Forged with Adhesive Tape	1.181 x 1.181 x .248 (30 x 30 x 6.3)	4.35	294-1152-ND◆	7.13	6.42	5.00	APF30-30-06CB/A01
	Heatsink Low-Profile Forged	1.181 x 1.181 x .374 (30 x 30 x 9.5)	3.25	294-1153-ND◆	6.13	5.52	4.30	APF30-30-10CB
	Heatsink Forged with Adhesive Tape	1.181 x 1.181 x .374 (30 x 30 x 9.5)	3.25	294-1154-ND◆	7.34	6.61	5.14	APF30-30-10CB/A01
	Heatsink Low-Profile Forged	1.181 x 1.181 x .500 (30 x 30 x 12.7)	2.45	294-1155-ND◆	6.31	5.68	4.42	APF30-30-13CB
	Heatsink Forged with Adhesive Tape	1.181 x 1.181 x .500 (30 x 30 x 12.7)	2.45	294-1156-ND◆	7.34	6.61	5.14	APF30-30-13CB/A01
	Heatsink Low-Profile Forged	1.575 x 1.575 x .248 (40 x 40 x 6.3)	3.30	294-1157-ND◆	7.06	6.36	4.95	APF40-40-06CB
	Heatsink Forged with Adhesive Tape	1.575 x 1.575 x .248 (40 x 40 x 6.3)	3.30	294-1158-ND◆	8.10	7.29	5.67	APF40-40-06CB/A01
	Heatsink Low-Profile Forged	1.575 x 1.575 x .374 (40 x 40 x 9.5)	2.50	294-1159-ND◆	7.29	6.57	5.11	APF40-40-10CB
	Heatsink Forged with Adhesive Tape	1.575 x 1.575 x .374 (40 x 40 x 9.5)	2.50	294-1160-ND◆	8.33	7.50	5.84	APF40-40-10CB/A01
	Heatsink Low-Profile Forged	1.575 x 1.575 x .500 (40 x 40 x 12.7)	1.90	294-1161-ND◆	7.53	6.78	5.27	APF40-40-13CB
	Heatsink Forged with Adhesive Tape	1.575 x 1.575 x .500 (40 x 40 x 12.7)	1.90	294-1162-ND◆	8.77	7.90	6.14	APF40-40-13CB/A01

◆ ***RoHS Compliant***

ZIF III Circuit Board Retainers

The ZIF retainer is a self-contained, precision assembly that provides highly effective thermal interface between the circuit board and cold plate. CTS ZIF III features a quick, quarter-turn locking mechanism that provides for a positive and fast assembly. The unique locking design produces a uniform pressure distribution along the PCB edge for optimal heat transfer and resistance to extreme shock and vibration.

Features:

- PC board mountable (screw mounting)
- Positive 1/4 turn locking
- Field maintainable
- Superior mechanical retention
- Thermally efficient, 1.2°C-inch/Watt

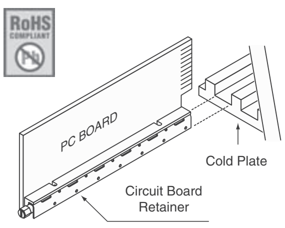

Description	Digi-Key Part No.	Price Each			CTS Part No.
		1	10	100	
PCB Retainer – Hex Head Drive, 4.50” Housing Assembly, Left Hand Part	294-1163-ND	66.24	55.20	48.76	Z3A45SBSBNL
PCB Retainer – Hex Head Drive, 4.50” Housing Assembly, Right Hand Part	294-1164-ND	66.24	55.20	48.76	Z3A45SBSBNR
PCB Retainer – Hex Head Drive, 5.25” Housing Assembly, Left Hand Part	294-1165-ND	69.35	57.80	51.06	Z3A52SBSBNL
PCB Retainer – Hex Head Drive, 5.25” Housing Assembly, Right Hand Part	294-1166-ND	69.35	57.80	51.06	Z3A52SBSBNR

LED Lighting ICs

Zetex has developed a range of high efficiency, cost effective and versatile LED driver ICs in space saving packages to tackle a wide range of existing and emerging applications including:

- Display screens backlighting
- Low-voltage halogen replacement LEDs
- Architectural and decorative lighting
- Camera flash
- Automotive lighting
- Solar powered traffic signs

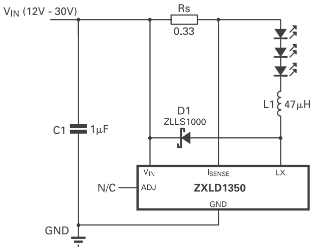

Features:

- 2.5 to 5.5V internal switch — ZXLD1100 / 1101 / 1601 / 1615 / 1937
- 1.6 to 5.5V internal switch — ZXLB1600
- 7 to 30V internal switch — ZXLD1350
- 0.8 to 8V external switch — ZXSC300 / 310
- 1.8 to 8V external switch — ZXSC400 / 440
- Single Cell LED Driver — ZXSC380
- 7V-30V input, 1A LED driver with internal switch — ZXLD1360

The ZXLD1350 is a continuous mode inductive buck converter designed to drive up to three 1W series connected white LEDs from a 12V source. The primary application is 12V halogen replacement and automotive lighting, through a supply voltage range of 7V to 30V making this part suitable for a wide range of other applications. With a higher supply voltage up to six LEDs can be driven.

High Power SOT23F (flat) Bipolar transistors

- **High power dissipation**
  - 1.3W (25 x 25mm, 2 oz copper)
  - 1.5W (50 x 50mm, 2 oz copper)
  - 2W (50 x 50mm, 2 oz copper, t ≤ 5secs)
- **Fits on same pcb footprint as SOT23**
  - 3mm x 2.5mm
- **Low profile package**
  - Max height 1mm

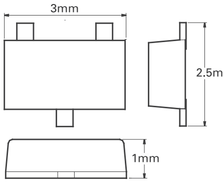

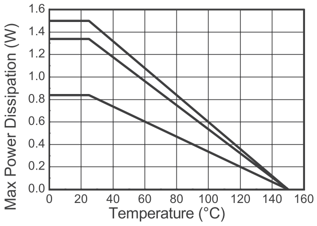

Derating Curve

- **NPN and PNP transistors ranging from 12 to 400 Volts**
  - 12V, high gain, low saturation devices for portable applications – ZXTN07012EFF, ZXTP07012EFF
  - 20 and 40V, High pulse current devices for Gate Driving applications – ZXTN07045EFF, ZXTP07040DFF, ZXTN19020DFF, ZXTP19020DFF
  - 60 and 100V devices for Automotive and Industrial applications – ZXNT19060CFF, ZXTP19060CFF, ZXTN19100CFF, ZXTP19100CFF
  - 120V Darlington transistors for interfacing to micro controllers – ZXTN04120HFF, ZXTP05120HFF
  - 400V devices for telecoms line switching and off-line switching – ZXTN08400AFF, ZXTP08400AFF

Low threshold 20V N-channel MOSFETs

The new generation of TRENCH MOSFETs from Zetex utilizes a unique structure that combines the benefits of low on-resistance with fast switching speed. This makes them ideal for high efficiency, low voltage, power management applications.

Part Number	V_{DS} V	I_D A	I_{DM} A	$R_{DS(on)}$ max mΩ	@ V_{GS} V	@ I_D A	Q_G @ 4.5V nC	C_{iss} @ 10V pF	P_D W	Package
ZXMN2B03E6	20	4.3	26	40 55 75	4.5 2.5 1.8	4.3 3.7 3.2	14.5	1160	1.1	SOT23-6
ZXMN2B14FH	20	3.5	21	55 75 100	4.5 2.5 1.8	3.5 3.0 2.6	11	872	1.0	SOT23
ZXMN2B01F	20	2.1	11.8	100 150 200	4.5 2.5 1.8	2.4 2.0 1.7	4.8	370	0.625	SOT23

- **Features:**
  - Low voltage Gate drive – Down to 1.8V
  - Low on-resistance
  - Small package outlines
- **Applications:**
  - Battery or low voltage driven boost converters
  - Interface between low voltage ICs or micros and Loads

Current Monitors

Current measurement from a few milliamps to tens of amps can be satisfied by Zetex' current monitor range. In particular the ZXCT1081 is a wide input range current monitor, which operates over a range of input voltages from 2.7V up to 40V (60V transient). As a result the ZXCT1081 can be used on unprotected automotive rails, industrial power supply rails and in adapters.

Features:

- Accurate High Voltage High Side current sensing
- Up to 40V input
- 3V to 10V supply voltage
- 500µA quiescent current
- Fixed internal gain of 10
- SOT23-5

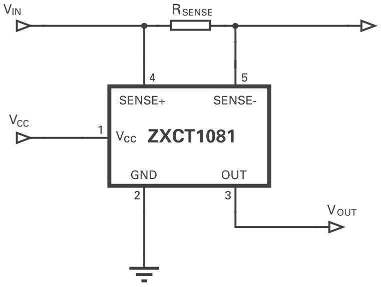

Applications:

- Automotive current measurement
- Industrial power supplies
- Adapter power supplies
- Over-current protection

Voltage references and shunt regulators

Zetex provides a wide range of references and shunt regulators in industry standard pin-outs. They exhibit lower minimum knee currents than their industry standard counterparts thereby enabling a reduction in power consumption or an increase in temperature ratings.

Features:

- ZR431 — TL431 type shunt with lower knee current and higher output current
- ZTL431/2 — TL431/2 pin and spec compatible up to 20V
  - Available in 0.5% and 1% in SOT23
- ZTLV431 — TLV431 pin and similar spec up to 10V in SOT23
- LM4040 — LM4040 pin and spec compatible in SOT23 at 2.5 and 5V
  - Available in 0.5% and 1% in SOT23
- LM4041 — LM4041 pin and spec compatible in SOT23 at 2.5 and 5V
  - Available in 0.5% and 1% in SOT23
- ZR, ZRB, ZRC and ZXRE range of references in SOT23 with lower operating currents than industry parts
  - Available in 0.5% and 1% as well as 2% and 3% tolerances

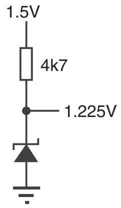

Applications:

- 431 for isolation loop in isolated power supplies
- Low current references for precision supplies in portable/handheld equipment

High performance SOT23 Bipolar transistors

This transistor combines high gain, high current operation and low saturation voltage making it ideal for power MOSFET gate driving and low power losss switching.

Part Number	V_{CEO} V	V_{CEX} V	I_C A	I_{CM} A	h_{FE} min	h_{FE} max	h_{FE} @ I_C A	$V_{CE(sat)}$ max mV	$V_{CE(sat)}$ @ I_C A	$V_{CE(sat)}$ @ I_B mA	P_D mW
NPN											
ZXTN25040DFL	40	130	1.5	6	300 170	900 –	0.01 1.5	80 180	0.5 1.5	10 30	350
ZXTN25020DFL	20	100	2.0	8	300 80	900 –	0.01 4.5	95 220	1 2	20 20	350
ZXTN25012EFL	12	–	2.0	15	500 210	1500 –	0.01 5	80 125	1 2	10 40	350
PNP											
ZXTP25040DFL	-40	–	-1.5	-5	300 120	900 –	-0.01 -1.5	-95 -185	-0.5 -1.5	-20 -75	350
ZXTP25020DFL	-20	–	-1.5	-6	300 60	900 –	-0.01 -4	-85 -290	-1 -2	-100 -40	350

- **Features:**
  - SOT23 package
  - High Peak Current
  - Low Saturation voltage and low equivalent on-resistance
  - High Gain
- **Applications:**
  - MOSFET and IGBT Gate Driving
  - LED driving
  - Low Power DC-DC conversion

Low Saturation Transistors

Up to 25 Volts

VCEO (V)	VCBO (V)	IC (cont.) (A)	hFE		@		VCE (sat)			Packaging Type	Digi-Key Part No.	Loose Piece Pricing			
			Min.	Max.	IC (mA)	VCE (V)	Max. (V)	@IC (mA)	@IB (mA)			1	10	100	1,000
NPN															
10	35	4.0	300	1200	1000	2	0.19	4000	20	Super E-Line —TO-92	ZTX1047A-ND◆	1.68	12.60	75.60	476.00
12	12	3.0	400	—	3000	2	0.35	3000	20	Super E-Line —TO-92	ZTX688B-ND	1.62	12.15	81.00	540.00
17.5	50	4.0	300	1200	1000	2	0.21	4000	20	Super E-Line —TO-92	ZTX1048A-ND◆	1.68	12.60	75.60	476.00
20	20	3.5	300	—	200	2	0.255	3500	50	Super E-Line —TO-92	ZTX618-ND◆	1.17	8.78	52.65	331.50
	20	3.0	400	—	2000	2	0.5	2000	10	Super E-Line —TO-92	ZTX689B-ND	1.62	12.15	81.00	540.00
25	60	5.0	300	—	1000	1	0.22	5000	100	Super E-Line —TO-92	ZTX869-ND◆	1.86	13.95	83.70	527.00
	35	2.0	100	300	1000	2	0.5	2000	200	Super E-Line —TO-92	ZTX649-ND◆	1.38	10.35	69.00	460.00
PNP															
-12	-15	-4.5	300	1000	500	-1	-0.30	5000	200	Super E-Line —TO-92	ZTX968-ND◆	1.86	13.95	83.70	527.00
	-15	-4.0	250	850	500	-2	-0.235	4000	70	Super E-Line —TO-92	ZTX1147A-ND	1.68	12.60	75.60	476.00
-15	-20	-3.0	300	800	10	-1	-0.32	2000	20	Super E-Line —TO-92	ZTX788A-ND◆	1.68	12.60	84.00	560.00
-20	-40	-4.5	100	300	1000	-1	-0.31	5000	300	Super E-Line —TO-92	ZTX948-ND◆	1.86	13.95	83.70	527.00
	-20	-2.5	300	—	10	-2	-0.26	2500	200	Super E-Line —TO-92	ZTX718-ND◆	1.08	8.10	48.60	306.00
-25	-25	-3.0	300	800	10	-2	-0.45	2000	20	Super E-Line —TO-92	ZTX789A-ND◆	1.68	12.60	84.00	560.00
	-30	-3.0	250	800	500	-2	-0.3	3000	70	Super E-Line —TO-92	ZTX1149A-ND◆	1.68	12.60	75.60	476.00
	-35	-2.0	100	300	1000	-2	-0.5	2000	200	Super E-Line —TO-92	ZTX749-ND◆	1.38	10.35	69.00	460.00

VCEO (V)	VCBO (V)	IC (cont.) (A)	hFE		@		VCE (sat)			Packaging Type	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape & Reel	
			Min.	Max.	IC (mA)	VCE (V)	Max. (V)	@IC (mA)	@IB (mA)			1	10		Qty.	Pricing
NPN																
10	35	5.0	300	1200	1000	2	0.35	5000	25	SOT-223	FZT1047ACT-ND◆	1.29	.97	FZT1047ATR-ND◆	1,000	365.50
	35	4.0	300	1200	1000	2	0.35	5000	25	SOT-89	FCX1047ACT-ND◆	1.14	.86	FCX1047ATR-ND◆	1,000	323.00
12	20	4.5	140	—	10,000	2	0.32	4500	45	SOT-23F	ZXTN07012EFFCT-ND◆	.78	.59	ZXTN07012EFFTR-ND◆	3,000	195.00/M
	20	6.0	500	1500	10	2	32	1000	100	SOT-23	ZXTN25012EFHCT-ND◆	.85	.64	ZXTN25012EFHTR-ND◆	3,000	211.50/M
	20	2.0	30	—	15,000	2	0.30	5000	100	SOT-23	ZXTN25012EFLCT-ND◆	.57	.43	ZXTN25012EFLTR-ND◆	3,000	142.50/M
	12	4.0	400	—	3000	2	0.35	3000	20	SOT-223	FZT688BCT-ND◆	1.32	.99	FZT688BTR-ND◆	1,000	374.00
	12	3.0	400	—	3000	2	0.40	4000	50	SOT-89	FCX688BCT-ND◆	.78	.59	FCX688BTR-ND◆	1,000	221.00
15	60	6.0	200	560	500	2	0.015	100	5	SOT-23	ZXTN23015CFHCT-ND◆	1.26	.95	ZXTN23015CFHTR-ND◆	3,000	378.00/M
	40	5.0	300	900	10	2	40	1000	100	SOT-23	ZXTN25015DFHCT-ND◆	.90	.68	ZXTN25015DFHTR-ND◆	3,000	270.00/M
	40	5.0	300	900	1000	2	0.20	5000	1000	SOT-23-6	ZXT13N15DE6CT-ND	1.08	.81	ZXT13N15DE6TR-ND	3,000	270.00/M
	70	4.5	200	—	10	2	8	100	10	MLP 2 x 2	ZXTAM322TACT-ND◆	1.15	.86	ZXTAM322TATR-ND◆	3,000	343.80/M
	15	4.0	300	—	10	2	0.014	100	10	SOT-23-6	ZXT10N15DE6TACT-ND	.90	.68	ZXT10N15DE6TATR-ND	3,000	225.00/M
	15	4.0	200	—	3000	2	0.20	3000	50	SOT-89	FCX617CT-ND◆	.76	.58	FCX617TR-ND◆	1,000	215.90
	40	3.3	300	900	200	2	0.15	3000	150	SOT-23	ZXT11N15DFCT-ND◆	.86	.65	ZXT11N15DFTR-ND◆	3,000	214.50/M
	15	3.0	200	—	3000	2	0.2	3000	50	SOT-23	FMMT617CT-ND◆	.76	.58	FMMT617TR-ND◆	3,000	190.50/M
	15	1.5	200	—	1000	2	0.18	1000	10	SOT-323	ZUMT617CT-ND◆	.54	.41	ZUMT617TR-ND◆	3,000	162.00/M
17.5	50	5.0	300	1200	1000	2	0.35	5000	25	SOT-223	FZT1048ACT-ND◆	1.29	.97	FZT1048ATR-ND◆	1,000	365.50
20	100	10	200	—	10	2	8	100	10	MLP 2 x 2	ZXTBM322TACT-ND	1.15	.86	ZXTBM322TATR-ND	3,000	343.80/M
	100	2.0	80	—	4500	2	0.27	4500	450	SOT-23	ZXTN25020DFLCT-ND◆	.57	.43	ZXTN25020DFLTR-ND◆	3,000	142.50/M
	100	4.5	300	900	10	2	0.043	1000	100	SOT-23	ZXTN25020DFHCT-ND◆	.90	.68	ZXTN25020DFHTR-ND◆	3,000	270.00/M
	70	4.5	200	500	10	2	45	1000	100	SOT-23	ZXTN25020CFHCT-ND◆	.85	.64	ZXTN25020CFHTR-ND◆	3,000	211.50/M
	70	4.5	200	500	10	2	45	1000	100	SOT-23	ZXTN25020BFHCT-ND◆	.90	.68	ZXTN25020BFHTR-ND◆	3,000	270.00/M
	70	6.5	50	—	15,000	2	0.190	6500	180	SOT-23F	ZXTN19020DFFCT-ND◆	1.11	.84	ZXTN19020DFFTR-ND◆	3,000	277.50/M
	65	7.0	45	—	15,000	2	0.175	7000	280	SOT-23F	ZXTN19020CFFCT-ND◆	1.11	.84	ZXTN19020CFFTR-ND◆	3,000	277.50/M
	50	4.5	300	900	1000	2	0.23	4500	45	SOT-23-6	ZXT13N20DE6CT-ND	1.08	.81	ZXT13N20DE6TR-ND	3,000	270.00/M
	20	3.5	200	—	10	2	0.015	100	10	SOT-23-6	ZXT10N20DE6TACT-ND◆	.90	.68	ZXT10N20DE6TATR-ND◆	3,000	225.00/M
	20	3.0	400	—	2000	2	0.45	3000	20	SOT-223	FZT689BCT-ND◆	1.32	.99	FZT689BTR-ND◆	1,000	374.00
	25	1.0	160	400	500	1	0.5	1000	100	SOT-223	BCP6825CT-ND◆	1.22	.92	BCP6825TR-ND◆	1,000	346.80
	25	1.0	160	400	500	1	0.5	1000	100	SOT-89	BCX6825CT-ND◆	.45	.34	BCX6825TR-ND◆	1,000	127.50
	40	2.5	300	900	100	2	0.13	2500	250	SOT-23	ZXT11N20DFCT-ND	.97	.73	ZXT11N20DFTR-ND	3,000	243.00/M
	20	2.5	200	—	2000	2	0.2	2500	50	SOT-23	FMMT618CT-ND◆	.76	.58	FMMT618TR-ND◆	3,000	190.50/M
	20	1.25	200	—	1000	2	0.2	1000	10	SOT-323	ZUMT618CT-ND	.54	.41	ZUMT618TR-ND	3,000	162.00/M
25	60	7.0	300	—	1000	1	0.075	1000	10	SOT-223	ZXTN2005GCT-ND◆	1.50	1.13	ZXTN2005GTR-ND◆	1,000	425.00
	80	6.5	300	—	1000	1	0.215	2000	10	SOT-223	FZT869CT-ND◆	1.68	1.26	FZT869TR-ND◆	1,000	476.00
	60	5.5	300	—	1000	1	0.07	1000	10	SOT-89	ZXTN2005ZCT-ND◆	1.32	.99	ZXTN2005ZTR-ND◆	1,000	374.00
	35	3.0	100	300	1000	2	0.3	1000	100	SOT-223	FZT649CT-ND◆	1.08	.81	FZT649TR-ND◆	1,000	306.00
PNP																
-12	-20	-6.0	300	900	1000	-2	-0.163	6000	60	MSOP-8	ZXT14P12DXCT-ND	4.84	3.63	—	—	—
	-15	-3.0	250	850	500	-2	-0.25	3000	30	SOT-89	FCX1147ACT-ND	1.14	.86	FCX1147ATR-ND	1,000	323.00
	-15	-5.0	250	850	500	-2	-0.4	5000	50	SOT-223	FZT1147ACT-ND	1.38	1.04	FZT1147ATR-ND	1,000	391.00
	-25	-4.0	300	—	10	-2	-10	100	10	MLP 2 x 2	ZXT1M322TACT-ND	1.15	.86	ZXT1M322TATR-ND	3,000	343.80/M
	-20	-4.0	300	900	1000	-2	-0.25	4000	50	SOT-23-6	ZXT13P12DE6CT-ND◆	1.08	.81	ZXT13P12DE6TR-ND◆	3,000	270.00/M
	-12	-4.0	150	—	-6000	-2	-0.34	-4000	-80	SOT-23F	ZXTP07012EFFCT-ND◆	.78	.59	ZXTP07012EFFTR-ND◆	3,000	195.00/M
	-12	-4.0	50	—	-4000	-2	-0.35	-2000	-40	SOT-23	ZXTP25012EFHCT-ND◆	.90	.68	ZXTP25012EFHTR-ND◆	3,000	225.00/M
	-12	-3.0	300	—	-10	-2	-0.017	-100	-10	SOT-23-6	ZXT10P12DE6TACT-ND◆	.90	.68	ZXT10P12DE6TATR-ND◆	3,000	225.00/M
	-12	-3.0	300	—	100	-2	-0.32	3000	50	SOT-89	FCX717CT-ND◆	.76	.58	FCX717TR-ND◆	1,000	215.90
	-12	-3.0	300	—	-10	-2	-0.32	3000	-50	SOT-223	FZT717CT-ND◆ ***NEW!***	1.16	.87	FZT717TR-ND◆ ***NEW!***	1,000	328.10
	-12	-2.5	180	—	2500	-2	-0.17	1500	50	SOT-23	FMMT717CT-ND◆	.60	.45	FMMT717TR-ND◆	3,000	150.00/M
	-12	-1.25	50	—	3000	-2	-0.29	1250	50	SOT-23	FMMTL717CT-ND◆	.51	.39	FMMTL717TR-ND◆	3,000	127.50/M
	-12	-1.25	180	—	1000	-2	-0.24	1000	50	SOT-323	ZUMT717CT-ND	.54	.41	ZUMT717TR-ND	3,000	162.00/M
-15	-15	-6.0	200	560	500	-2	-0.01	100	10	SOT-23	ZXTP23015CFHCT-ND◆	1.26	.95	ZXTP23015CFHTR-ND◆	3,000	378.00/M
	-15	-4.0	300	900	10	-2	-55	1000	100	SOT-23	ZXTP25015DFHCT-ND◆	.79	.60	ZXTP25015DFHTR-ND◆	3,000	198.00/M
	-15	-3.0	300	—	2000	-2	-0.45	2000	10	SOT-223	FZT788BCT-ND◆	1.47	1.11	FZT788BTR-ND◆	1,000	416.50
-20	-40	-6.0	100	300	1000	-1	-0.18	2000	200	SOT-223	FZT948CT-ND◆	1.80	1.35	FZT948TR-ND◆	1,000	510.00
	-40	-4.5	100	300	10	-2	-60	1000	100	SOT-23	ZXTP25020BFHCT-ND◆	.90	.68	ZXTP25020BFHTR-ND◆	3,000	270.00/M
	-25	-5.0	300	900	1000	-2	-0.20	5000	100	MSOP-8	ZXT14P20DXCT-ND	4.84	3.63	ZXT14P20DXTR-ND	1,000	1370.20
	-25	-5.0	110	—	-5000	-2	-0.135	-5000	-500	SOT-23F	ZXTP19020CFFCT-ND◆	1.11	.84	ZXTP19020CFFTR-ND◆	3,000	277.50/M
	-20	-5.0	110	—	-5000	-2	-0.135	-5000	-500	SOT-23F	ZXTP19020DFFCT-ND◆	1.11	.84	ZXTP19020DFFTR-ND◆	3,000	277.50/M
	-25	-4.0	70	—	-4000	-2	-0.24	-2000	-40	SOT-23	ZXTP25020DFHCT-ND◆	.90	.68	ZXTP25020DFHTR-ND◆	3,000	225.00/M
	-25	-4.0	200	500	10	-2	-55	1000	100	SOT-23	ZXTP25020CFHCT-ND◆	.79	.60	ZXTP25020CFHTR-ND◆	3,000	198.00/M
	-25	-3.5	300	—	10	-2	-19	100	10	MLP 2 x 2	ZXT2M322TACT-ND◆	1.15	.86	ZXT2M322TATR-ND◆	3,000	343.80/M
	-25	-3.5	300	900	1000	-2	-0.25	3500	350	SOT-23-6	ZXT13P20DE6CT-ND	1.08	.81	ZXT13P20DE6TR-ND	3,000	270.00/M
	-25	-3.5	300	900	1000	-2	-0.14	1000	10	SOT-23-6	ZX5T2E6CT-ND◆	1.38	1.04	ZX5T2E6TR-ND◆	3,000	345.00/M
	-25	-3.5	300	900	1000	-2	-0.14	1000	10	SOT-23-6	ZXTP2006E6CT-ND◆	1.02	.77	ZXTP2006E6TR-ND◆	3,000	255.00/M
	-25	-1.5	60	—	-4000	-2	-0.275	-2000	-40	SOT-23	ZXTP25020DFLCT-ND◆	.57	.43	ZXTP25020DFLTR-ND◆	3,000	142.50/M
	-20	-2.5	300	—	10	-2	-0.030	-100	-10	SOT-23-6	ZXT10P20DE6TACT-ND	.90	.68	ZXT10P20DE6TATR-ND	3,000	225.00/M
	-20	-2.5	300	—	100	-2	-0.22	1500	50	SOT-89	FCX718CT-ND◆	.76	.58	FCX718TR-ND◆	1,000	215.90
	-20	-1.5	150	—	2000	-2	-0.20	1000	20	SOT-23	FMMT718CT-ND◆	.60	.45	FMMT718TR-ND◆	3,000	150.00/M
	-20	-1.0	300	—	-10	-2	-0.18	-500	-20	SOT-23	FMMTL718CT-ND◆ ***NEW!***	.51	.39	FMMTL718TR-ND◆ ***NEW!***	3,000	127.50/M
	-20	-1.0	180	—	500	-2	-0.18	500	20	SOT-223	ZUMT718CT-ND◆	.54	.41	ZUMT718TR-ND◆	3,000	162.00/M

◆ ***RoHS Compliant***

(Continued)

MLP 2 x 2

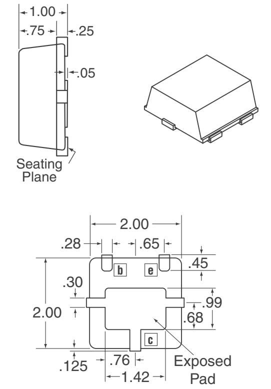

MSOP-8

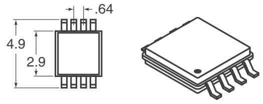

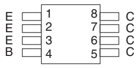

8-MSOP (Single) Pin out

SOT-23

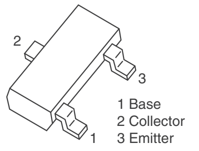

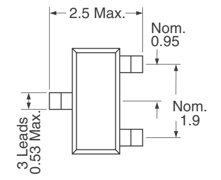

SOT-23-6

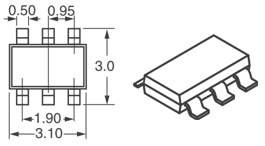

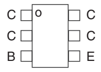

Pin out for SOT23-6

Low Saturation Transistors

Up to 25 Volts *(Cont.)*

VCEO (V)	VCBO (V)	IC (cont.) (A)	hFE Min.	hFE Max.	@ IC (mA)	@ VCE (V)	VCE (sat) Max. (V)	@IC (mA)	@IB (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing
-20	-25	-1.0	160	400	-500	-1	-0.5	-1000	-100	SOT-89	BCX6925CT-ND◆ ***NEW!***	.45	.34	BCX6925TR-ND◆ ***NEW!***	1,000	127.50
-25	-30	-4.0	250	800	500	-2	-0.35	4000	140	SOT-223	FZT1149ACT-ND◆	1.38	1.04	FZT1149ATR-ND◆	1,000	391.00
	-30	-3.0	250	800	500	-2	-0.30	3000	100	SOT-89	FCX1149ACT-ND◆	1.19	.90	FCX1149ATR-ND◆	1,000	336.60
	-35	-3.0	100	300	1000	-2	-0.3	1000	100	SOT-223	FZT749CT-ND◆	1.16	.87	FZT749TR-ND◆	1,000	328.10
	-25	-3.0	300	800	10	-2	-0.19	1000	10	SOT-89	FCX789ACT-ND◆	.78	.59	FCX789ATR-ND◆	1,000	221.00
	-25	-2.0	250	—	1000	-2	-0.45	2000	20	SOT-223	FZT789ACT-ND◆	1.32	.99	FZT789ATR-ND◆	1,000	374.00

◆ ***RoHS Compliant***

30-50 Volts

VCEO (V)	VCBO (V)	IC (cont.) (A)	hFE Min.	hFE Max.	@ IC (mA)	@ VCE (V)	VCE (sat) Max. (V)	@IC (mA)	@IB (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
										NPN — RoHS Compliant					
30	80	5	100	300	1000	1	0.22	5000	200	Super E-Line —TO-92	ZTX849-ND	1.86	13.95	83.70	527.00
	80	4	300	1200	1000	2	0.18	2000	10	Super E-Line —TO-92	ZTX1049A-ND	1.68	12.60	75.60	476.00
40	150	4	300	1200	1000	2	0.21	4000	100	Super E-Line —TO-92	ZTX1051A-ND	1.68	12.60	75.60	476.00
45	45	2	400	—	1000	2	0.5	1000	5	Super E-Line —TO-92	ZTX690B-ND	1.62	12.15	81.00	540.00
	60	1	100	300	150	10	0.25	150	15	Super E-Line —TO-92	ZTX450-ND	.84	6.30	42.00	280.00
										PNP — RoHS Compliant					
-30	-35	-1	100	300	500	-2	-0.5	1000	100	Super E-Line —TO-92	ZTX549-ND	.84	6.30	42.00	280.00
-40	-45	-3	250	800	500	-2	-0.23	1800	70	Super E-Line —TO-92	ZTX1151A-ND	1.68	12.60	75.60	476.00
	-50	-2	300	800	10	-2	-0.75	2000	50	Super E-Line —TO-92	ZTX790A-ND	1.68	12.60	84.00	560.00
-45	-60	-1	100	300	150	-10	-0.25	150	15	Super E-Line —TO-92	ZTX550-ND	.84	6.30	42.00	280.00

VCEO (V)	VCBO (V)	IC (cont.) (A)	hFE Min.	hFE Max.	@ IC (mA)	@ VCE (V)	VCE (sat) Max. (V)	@IC (mA)	@IB (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing
											NPN					
30	80	7.0	100	300	1000	1	0.215	2000	20	SOT-223	FZT849CT-ND	1.68	1.26	FZT849TR-ND	1,000	476.00
	80	7.0	100	300	1000	1	0.065	1000	20	SOT-223	ZX5T849GCT-ND◆	1.55	1.17	ZX5T849GTR-ND◆	1,000	440.30
	80	7.0	100	—	10	1	0.18	2000	20	D-PAK	ZXT849KCT-ND◆	2.38	1.79	ZXT849KTR-ND◆	2,500	673.20/M
	80	7.0	100	300	1000	1	0.065	1000	20	SOT-223	ZXTN2007GCT-ND◆	1.50	1.13	ZXTN2007GTR-ND◆	1,000	425.00
	80	6.0	100	300	1000	1	0.06	1000	20	SOT-89	ZXTN2007ZCT-ND◆	1.38	1.04	ZXTN2007ZTR-ND◆	1,000	391.00
	80	5.0	300	1200	1000	2	0.33	5000	50	SOT-223	FZT1049ACT-ND◆	1.29	.97	FZT1049ATR-ND◆	1,000	365.50
	50	1.0	100	300	500	2	0.5	1000	100	SOT-23	FMMT449CT-ND◆	.45	.34	FMMT449TR-ND◆	3,000	135.00/M
	50	1.0	100	300	1000	2	0.3	1000	100	SOT-23	FMMT489CT-ND◆	.45	.34	FMMT489TR-ND◆	3,000	135.00/M
40	50	1.0	100	300	1000	2	0.3	1000	100	SOT-223	FZT489CT-ND◆ ***NEW!***	1.02	.77	FZT489TR-ND◆ ***NEW!***	1,000	289.00
	150	5.0	270	1200	1000	2	0.18	3000	10	SOT-223	FZT1051ACT-ND◆	1.29	.97	FZT1051ATR-ND◆	1,000	365.50
	150	3.0	270	1200	1000	2	0.34	5000	100	SOT-89	FCX1051ACT-ND◆	1.14	.86	FCX1051ATR-ND◆	1,000	323.00
	130	1.5	300	900	10	2	50	500	50	SOT-23	ZXTN25040DFLCT-ND◆	.57	.43	ZXTN25040DFLTR-ND◆	3,000	142.50/M
	130	5.0	20	—	5000	2	0.26	5000	500	SOT-89	ZXTN25040DZCT-ND◆	.78	.59	ZXTN25040DZTR-ND◆	—	—
	130	4.0	30	—	4000	2	0.21	2000	40	SOT-23	ZXTN25040DFHCT-ND◆	.90	.68	ZXTN25040DFHTR-ND◆	3,000	225.00/M
	40	1.0	300	900	500	5	0.2	100	1	SOT-23	ZXTN2040FCT-ND◆	.39	.30	ZXTN2040FTR-ND◆	3,000	117.00/M
	40	1.0	300	900	500	5	0.5	1000	100	SOT-89	FCX491ACT-ND◆	.63	.48	FCX491ATR-ND◆	1,000	178.50
	40	1.0	300	900	500	5	0.5	1000	100	SOT-223	FZT491ACT-ND◆ ***NEW!***	1.02	.77	FZT491ATR-ND◆ ***NEW!***	1,000	289.00
45	60	3.0	400	—	1000	2	0.35	3000	150	D-PAK	ZXT690BKCT-ND◆	1.84	1.38	ZXT690BKTR-ND◆	2,500	520.20/M
	45	2.0	400	150	2000	2	0.30	1000	5	SOT-89	FCX690BCT-ND◆	.78	.59	FCX690BTR-ND◆	1,000	221.00
	45	2.0	400	—	1000	2	0.1	100	0.5	SOT-223	FZT690BCT-ND◆	1.32	.99	FZT690BTR-ND◆	1,000	374.00
	45	4.0	70	—	4000	2	0.34	4000	80	SOT-23F	ZXTN07045EFFCT-ND◆	.78	.59	ZXTN07045EFFTR-ND◆	3,000	195.00/M
	75	0.80	250	630	100	1	0.3	100	10	SOT-23	BCW66HCT-ND	.42	.32	BCW66HTR-ND	3,000	126.00/M
50	80	5.0	200	560	500	2	0.018	100	5	SOT-23	ZXTN2031FCT-ND◆	1.26	.95	ZXTN2031FTR-ND◆	3,000	378.00/M
	150	4.0	20	—	4000	2	0.060	1000	100	SOT-23	ZXTN25050DFHCT-ND◆	.90	.68	ZXTN25050DFHTR-ND◆	3,000	270.00/M
	100	4.0	300	900	1000	2	0.23	4000	100	SOT-23-6	ZXT13N50DE6CT-ND◆	1.08	.81	ZXT13N50DE6TR-ND◆	3,000	270.00/M
	100	1.25	30	—	2000	5	0.33	1250	125	SOT-23	FMMTL619CT-ND◆	.51	.39	FMMTL619TR-ND◆	3,000	127.50/M
	50	3.0	200	—	10	2	0.02	100	10	SOT-23-6	ZXT10N50DE6TACT-ND	.90	.68	ZXT10N50DE6TATR-ND	3,000	225.00/M
	50	2.0	200	—	1000	2	0.35	3000	100	SOT-89	FCX619CT-ND◆	.76	.58	FCX619TR-ND◆	1,000	215.90
	50	2.0	100	—	2000	2	0.2	1000	10	SOT-23	FMMT619CT-ND◆	.76	.58	FMMT619TR-ND◆	3,000	190.50/M
	50	1.0	200	—	500	5	0.18	500	25	SOT-323	ZUMT619CT-ND◆	.54	.41	ZUMT619TR-ND◆	3,000	162.00/M
											PNP					
-30	-50	-5.5	100	300	1000	-1	-0.27	2000	200	SOT-223	FZT949CT-ND◆	1.80	1.35	FZT949TR-ND◆	1,000	510.00
	-50	-5.5	100	300	1000	-1	-0.085	1000	20	SOT-223	ZX5T949GCT-ND◆	1.62	1.22	ZX5T949GTR-ND◆	1,000	459.00
	-50	-5.5	100	300	1000	-1	-0.085	1000	20	SOT-223	ZXTP2008GCT-ND◆	1.50	1.13	ZXTP2008GTR-ND◆	1,000	425.00
	-50	-5.5	100	300	1000	-1	-0.08	1000	20	SOT-89	ZXTP2008ZCT-ND◆	1.38	1.04	ZXTP2008ZTR-ND◆	1,000	391.00
	-50	-5.5	10	—	-20,000	-1	-0.175	-5500	-500	SOT-89	ZX5T949ZCT-ND◆	1.21	.91	ZX5T949ZTR-ND◆	1,000	341.70
	-50	-1.0	100	300	500	-2	-0.35	1000	100	SOT-89	FCX589CT-ND◆	.63	.48	FCX589TR-ND◆	1,000	178.50
	-50	-1.0	100	300	500	-2	-0.35	1000	100	SOT-23	FMMT589CT-ND◆	.45	.34	FMMT589TR-ND◆	3,000	135.00/M
	-35	-1.0	100	300	500	-2	-0.5	1000	100	SOT-23	FMMT549CT-ND◆	.45	.34	FMMT549TR-ND◆	3,000	135.00/M
	-35	-1.0	150	500	-500	-2	-0.3	-100	-1	SOT-23	FMMT549ACT-ND◆ ***NEW!***	.45	.34	FMMT549ATR-ND◆ ***NEW!***	3,000	112.50/M
	-35	-1.0	100	300	500	-5	-0.5	1000	100	SOT-223	FZT549CT-ND◆	1.02	.77	FZT549TR-ND◆	1,000	289.00
-40	-50	-1.0	100	300	-500	-2	-0.35	-1000	-100	SOT-223	FZT589CT-ND◆ ***NEW!***	1.02	.77	FZT589TR-ND◆ ***NEW!***	1,000	289.00
	-50	-5.5	200	550	500	-2	-0.165	1000	10	SOT-89	ZX5T3ZCT-ND	.91	.68	ZX5T3ZTR-ND	1,000	256.70
	-50	-5.5	200	550	500	-2	-0.165	1000	10	SOT-89	ZXTP2009ZCT-ND◆	1.38	1.04	ZXTP2009ZTR-ND◆	1,000	391.00
	-50	-4.0	300	900	1000	-2	-0.16	4000	200	MSOP-8	ZXT14P40DXCT-ND	4.84	3.63	—	—	—
	-45	-3.0	250	800	500	-2	-0.30	3000	250	SOT-89	FCX1151ACT-ND◆	1.14	.86	FCX1151ATR-ND◆	1,000	323.00
	-45	-3.0	250	800	500	-2	-0.3	3000	250	SOT-223	FZT1151ACT-ND◆	1.38	1.04	FZT1151ATR-ND◆	1,000	391.00
	-50	-3.0	300	900	1000	-2	-0.24	3000	300	SOT-23-6	ZXT13P40DE6CT-ND	1.08	.81	ZXT13P40DE6TR-ND	3,000	270.00/M
	-45	-3.0	30	—	3000	-2	-0.065	1000	100	SOT-23	ZXTP25040DFHCT-ND◆	.90	.68	ZXTP25040DFHTR-ND◆	3,000	270.00/M
	-50	-3.0	300	800	10	-2	-0.45	2000	50	D-PAK	ZXT790AKCT-ND	1.84	1.38	ZXT790AKTR-ND	2,500	520.20/M
	-50	-3.0	80	—	-3000	-2	-0.39	-3000	-150	SOT-23F	ZXTP07040DFFCT-ND◆	.78	.59	ZXTP07040DFFTR-ND◆	3,000	195.00/M
	-50	-2.0	200	—	1000	-2	-0.350	1000	10	SOT-89	FCX790ACT-ND◆	.78	.59	FCX790ATR-ND◆	1,000	221.00
	-50	-2.0	250	—	500	-2	-0.45	1000	10	SOT-223	FZT790ACT-ND◆	1.32	.99	FZT790ATR-ND◆	1,000	374.00
	-45	-1.5	15	—	-3000	-2	-0.3	-3000	-300	SOT-23	ZXTP25040DFLCT-ND◆	.57	.43	ZXTP25040DFLTR-ND◆	3,000	142.50/M
	-40	-2.0	300	—	10	-2	-0.040	100	10	SOT-23-6	ZXT10P40DE6TACT-ND	.90	.68	ZXT10P40DE6TATR-ND	3,000	225.00/M
	-40	-1.5	150	—	1000	-2	-0.25	1000	50	SOT-23	FMMT720CT-ND◆	.60	.45	FMMT720TR-ND◆	3,000	150.00/M
	-40	-1.0	300	800	100	-5	-0.2	100	1	SOT-23	ZXTP2041FCT-ND◆	.39	.30	ZXTP2041FTR-ND◆	3,000	117.00/M
	-40	-1.0	180	—	500	-5	-0.3	500	25	SOT-323	ZUMT720CT-ND◆	.54	.41	ZUMT720TR-ND◆	3,000	162.00/M
	-40	-1.0	300	800	100	-5	-0.35	500	20	SOT-89	FCX591ACT-ND◆	.63	.48	FCX591ATR-ND◆	1,000	178.50
	-40	-1.0	300	800	-100	-5	-0.35	-500	-20	SOT-223	FZT591ACT-ND◆ ***NEW!***	1.02	.77	FZT591ATR-ND◆ ***NEW!***	1,000	289.00
	-40	-1.0	300	800	100	-5	-0.35	500	20	SOT-23	FMMT591ACT-ND◆	.45	.34	FMMT591ATR-ND◆	3,000	135.00/M
-45	-60	-0.80	250	630	100	-1	-0.3	100	10	SOT-23	BCW68HCT-ND◆	.42	.32	BCW68HTR-ND◆	3,000	126.00/M
	-50	-0.80	100	600	100	-1	-0.62	500	50	SOT-23	BCX17CT-ND	.43	.33	BCX17TR-ND	3,000	129.60/M
-50	-50	-5.0	200	560	500	-2	-20	100	10	SOT-23	ZXTP2025FCT-ND◆	1.26	.95	ZXTP2025FTR-ND◆	3,000	378.00/M

◆ ***RoHS Compliant***

SOT-89

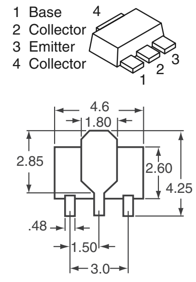

SOT-223

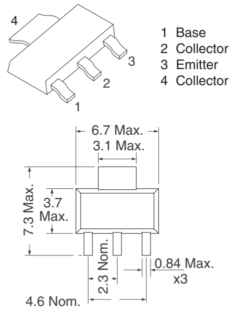

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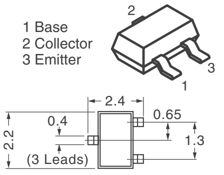

Super E-Line — TO-92

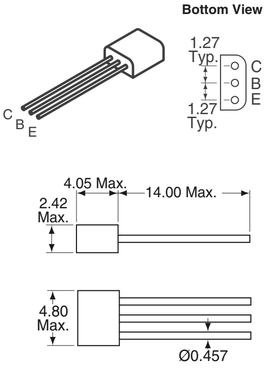

D-PAK

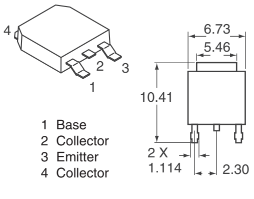

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ZETEX Medium Power Transistors

20-100 Volts

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
											NPN				
60	150	5.0	100	300	2000	1	0.25	5000	200	Super E-Line — TO-92	ZTX851-ND◆	1.86	13.95	83.70	527.00
	150	4.5	100	300	2000	1	0.03	100	5	Super E-Line — TO-92	ZX5T851A-ND	1.73	12.96	77.76	489.60
	150	4.5	100	300	2000	1	0.065	1000	50	Super E-Line — TO-92	ZXTN2010A-ND◆	1.73	12.96	77.76	489.60
	150	4.5	100	300	2000	1	0.065	1000	50	Super E-Line — TO-92	ZXTN2010ASTZ-ND◆	1.73	12.96	77.76	489.60
	80	2.0	100	300	500	2	0.5	2000	200	Super E-Line — TO-92	ZTX651-ND◆	1.38	10.35	69.00	460.00
	80	1.0	50	150	150	10	0.35	150	15	Super E-Line — TO-92	ZTX451-ND◆	.84	6.30	42.00	280.00
70	70	1.0	400	—	500	2	0.5	1000	10	Super E-Line — TO-92	ZTX692B-ND◆	1.62	12.15	81.00	540.00
75	150	3.0	300	1200	1000	2	0.25	3000	100	Super E-Line — TO-92	ZTX1053A-ND	1.68	12.60	75.60	476.00
100	200	4.0	100	300	2000	2	0.20	4000	400	Super E-Line — TO-92	ZTX853-ND◆	1.86	13.95	83.70	527.00
	120	2.0	100	300	500	2	0.5	2000	200	Super E-Line — TO-92	ZTX653-ND◆	1.38	10.35	69.00	460.00
	120	1.0	40	200	150	10	0.7	150	15	Super E-Line — TO-92	ZTX453-ND◆	.84	6.30	42.00	280.00
											PNP				
-60	-100	-3.5	100	300	1000	-1	-0.065	1000	100	Super E-Line — TO-92	ZXTP2012A-ND◆	1.24	9.27	55.62	350.20
	-100	-4.0	100	300	1000	-1	-0.30	4000	400	Super E-Line — TO-92	ZTX951-ND◆	1.86	13.95	83.70	527.00
	-80	-2.0	100	300	500	-2	-0.5	2000	200	Super E-Line — TO-92	ZTX751-ND	1.38	10.35	69.00	460.00
	-80	-1.0	50	150	150	-10	-0.35	150	15	Super E-Line — TO-92	ZTX551-ND	.84	6.30	42.00	280.00
-70	-75	-2.0	300	800	10	-2	-0.5	1000	25	Super E-Line — TO-92	ZTX792A-ND◆	1.68	12.60	84.00	560.00
-100	-140	-3.5	100	300	1000	-1	-0.33	4000	400	Super E-Line — TO-92	ZTX953-ND◆	1.86	13.95	83.70	527.00
	-120	-2.0	100	300	500	-2	-0.5	2000	200	Super E-Line — TO-92	ZTX753-ND◆	1.38	10.35	69.00	460.00
	-120	-1.0	40	200	150	-10	-0.25	150	15	Super E-Line — TO-92	ZTX553-ND◆	.84	6.30	42.00	280.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Qty.	Pricing
											NPN					
20	60	1.25	200	—	1000	2	0.2	1000	100	SOT-23	FMMTL618CT-ND◆ ***NEW!***	.51	.39	FMMTL618TR-ND◆ ***NEW!***	3,000	127.50/M
55	150	6.0	30	—	6000	2	0.35	2000	20	SOT-89	ZXTN19055DZCT-ND◆	1.11	.84	ZXTN19055DZTR-ND◆	1,000	314.50
60	160	5.5	30	—	6000	2	0.175	5500	550	SOT-23F	ZXTN19060CFFCT-ND◆	1.11	.84	ZXTN19060CFFTR-ND◆	3,000	277.50/M
	150	6.0	100	300	2000	1	0.17	2000	50	SOT-223	FZT851CT-ND◆	1.68	1.26	FZT851TR-ND◆	1,000	476.00
	150	6.0	100	300	2000	1	0.03	100	5	SOT-223	ZX5T851GCT-ND◆	1.62	1.22	ZX5T851GTR-ND◆	1,000	459.00
	150	6.0	100	300	2000	1	0.07	1000	50	SOT-223	ZXTN2010GCT-ND◆	1.50	1.13	ZXTN2010GTR-ND◆	1,000	425.00
	150	5.0	100	300	2000	1	0.055	1000	100	SOT-89	ZX5T851ZCT-ND◆	1.10	.83	ZX5T851ZTR-ND◆	1,000	312.80
	150	5.0	100	300	2000	1	0.065	1000	50	SOT-89	ZXTN2010ZCT-ND◆	1.38	1.04	ZXTN2010ZTR-ND◆	1,000	391.00
	150	5.0	45	—	2000	2	0.305	5000	500	SOT-89	ZXTN25060BZCT-ND◆	.78	.59	ZXTN25060BZTR-ND◆	3,000	195.00/M
	150	3.5	25	—	.0035	2	0.040	500	50	SOT-23	ZXTN25060BFHCT-ND◆	.90	.68	ZXTN25060BFHTR-ND◆	3,000	270.00/M
	140	5.0	100	300	2000	1	30	100	5	SOT-23	ZXTN2018FCT-ND◆	1.26	.95	ZXTN2018FTR-ND◆	3,000	378.00/M
	80	3.0	100	300	500	2	0.3	1000	100	SOT-223	FZT651CT-ND◆	1.08	.81	FZT651TR-ND◆	1,000	306.00
	80	1.0	100	300	500	5	0.5	1000	100	SOT-89	FCX491CT-ND◆	.63	.48	FCX491TR-ND◆	1,000	178.50
	120	1.0	100	—	500	10	0.5	1000	100	SOT-23	FMMT493ACT-ND◆ ***NEW!***	.45	.34	FMMT493ATR-ND◆ ***NEW!***	3,000	112.50/M
	80	1.0	100	300	500	5	0.3	500	50	SOT-23	FMMT491CT-ND◆	.45	.34	FMMT491TR-ND◆	3,000	135.00/M
	80	1.0	100	300	500	5	0.25	500	50	SOT-223	FZT491CT-ND◆	1.02	.77	FZT491TR-ND◆	1,000	289.00
	80	1.0	50	150	150	10	0.35	150	15	SOT-23	FMMT451CT-ND◆	.45	.34	FMMT451TR-ND◆	3,000	135.00/M
70	70	1.0	400	—	500	2	0.15	100	0.5	SOT-223	FZT69 2BCT-ND◆	1.32	.99	FZT692BTR-ND◆	1,000	374.00
75	150	5.0	260	—	10	2	0.095	1000	100	D-PAK	ZXT1053AKCT-ND◆	2.80	2.10	ZXT1053AKTR-ND◆	2,500	792.20/M
	150	4.5	300	1200	500	2	0.21	2000	100	SOT-223	FZT1053ACT-ND◆	1.29	.97	FZT1053ATR-ND◆	1,000	365.50
	150	3.0	270	1200	1000	2	0.25	3000	100	SOT-89	FCX1053ACT-ND◆	1.14	.86	FCX1053ATR-ND◆	1,000	323.00
80	100	3.5	300	900	200	2	20	100	10	MLP322	ZXTEM322CT-ND◆	1.15	.86	ZXTEM322TR-ND◆	3,000	343.80/M
	80	1.5	300	900	200	2	0.20	1500	50	SOT-23	FMMT620CT-ND	.76	.58	FMMT620TR-ND	3,000	190.50/M
	100	1.0	100	250	150	2	0.5	500	50	SOT-89	BCX5616CT-ND◆	.39	.30	BCX5616TR-ND◆	1,000	110.50
	90	1.0	100	300	100	5	0.25	150	15	SOT-89	BSR43CT-ND◆	.48	.36	BSR43TR-ND◆	1,000	160.00
	80	1.0	100	300	500	5	0.2	100	2	SOT-23	ZXTN2038FCT-ND◆	.39	.30	ZXTN2038FTR-ND◆	3,000	117.00/M
	80	0.50	50	—	100	10	0.25	100	10	SOT-23	FMMTA06CT-ND◆	.42	.32	FMMTA06TR-ND◆	3,000	126.00/M
100	200	6.0	100	300	2000	2	0.15	2000	100	SOT-223	FZT853CT-ND◆	1.68	1.26	FZT853TR-ND◆	1,000	476.00
	200	6.0	100	300	2000	2	0.065	1000	100	SOT-223	ZX5T853GCT-ND	1.62	1.22	ZX5T853GTR-ND	1,000	459.00
	200	6.0	100	300	2000	2	0.065	1000	100	SOT-223	ZXTN2011GCT-ND◆	1.50	1.13	ZXTN2011GTR-ND◆	1,000	425.00
	200	4.5	100	300	2000	2	0.06	1000	100	SOT-89	ZXTN2011ZCT-ND◆	1.38	1.04	ZXTN2011ZTR-ND◆	1,000	391.00
	200	4.5	10	—	10,000	2	0.195	5000	500	SOT-89	ZX5T853ZCT-ND◆	1.50	1.13	ZX5T853ZTR-ND◆	1,000	425.00
	200	4.5	130	—	1000	2	0.235	4500	450	SOT-23F	ZXTN19100CFFCT-ND◆	1.11	.84	ZXTN19100CFFTR-ND◆	3,000	277.50/M
	170	3.0	—	—	3000	2	0.055	500	50	SOT-23	ZXTN25100BFHCT-ND◆	.90	.68	ZXTN25100BFHTR-ND◆	3,000	270.00/M
	160	4.0	100	300	1000	2	30	100	5	SOT-23	ZXTN2020FCT-ND◆	1.26	.95	ZXTN2020FTR-ND◆	3,000	378.00/M
	120	2.0	100	300	500	2	0.3	1000	100	SOT-223	FZT653CT-ND◆	1.08	.81	FZT653TR-ND◆	1,000	306.00
	180	2.5	300	900	10	2	170	500	10	SOT-23	ZXTN25100DFHCT-ND◆	.85	.64	ZXTN25100DFHTR-ND◆	3,000	211.50/M
	120	1.0	100	300	250	10	0.3	500	50	SOT-89	FCX493CT-ND◆	.63	.48	FCX493TR-ND◆	1,000	178.50
	120	1.0	100	300	250	10	0.25	500	50	SOT-23	FMMT493CT-ND◆	.45	.34	FMMT493TR-ND◆	3,000	135.00/M
	120	1.0	100	300	250	10	0.3	500	50	SOT-223	FZT493CT-ND◆	1.02	.77	FZT493TR-ND◆	1,000	289.00
											PNP					
-60	-100	-6.0	100	—	10	-1	-0.09	1000	100	D-PAK	ZXT951KCT-ND◆	2.48	1.87	ZXT951KTR-ND◆	2,500	703.80/M
	-100	-5.5	100	300	2000	-1	-0.07	1000	100	SOT-223	ZX5T951GCT-ND◆	1.62	1.22	ZX5T951GTR-ND◆	1,000	459.00
	-100	-5.5	100	300	2000	-1	-0.07	1000	100	SOT-223	ZXTP2012GCT-ND◆	1.50	1.13	ZXTP2012GTR-ND◆	1,000	425.00
	-100	-5.0	100	300	2000	-1	-0.21	2000	200	SOT-223	FZT951CT-ND◆	1.80	1.35	FZT951TR-ND◆	1,000	510.00
	-100	-4.3	100	300	2000	-1	-0.065	1000	100	SOT-89	ZXTP2013ZCT-ND◆	1.38	1.04	ZXTP2013ZTR-ND◆	1,000	391.00
	-100	-4.3	100	300	2000	-1	-0.065	1000	100	SOT-89	ZXTP2012ZCT-ND◆	1.38	1.04	ZXTP2012ZTR-ND◆	1,000	391.00
	-100	-4.0	100	300	2000	-2	-25	100	10	SOT-23	ZXTP2027FCT-ND◆	1.26	.95	ZXTP2027FTR-ND◆	3,000	378.00/M
	-100	-3.0	30	—	3000	-2	-0.055	500	50	SOT-23	ZXTP25060BFHCT-ND◆	.90	.68	ZXTP25060BFHTR-ND◆	3,000	270.00/M
	-80	-3.0	100	300	500	-2	-0.3	1000	100	SOT-223	FZT751CT-ND◆	1.16	.87	FZT751TR-ND◆	1,000	328.10
	-80	-1.0	100	300	500	-5	-0.6	1000	100	SOT-89	FCX591CT-ND◆	.63	.48	FCX591TR-ND◆	1,000	178.50
	-80	-1.0	100	300	500	-5	-0.3	500	50	SOT-23	FMMT591CT-ND◆	.45	.34	FMMT591TR-ND◆	3,000	135.00/M
	-80	-1.0	100	300	500	-5	-0.3	500	50	SOT-223	FZT591CT-ND◆	1.02	.77	FZT591TR-ND◆	1,000	289.00
	-80	-1.0	15	—	-2000	-5	-0.6	-1000	-100	SOT-323	ZUMT591CT-ND◆	.48	.36	ZUMT591TR-ND◆	3,000	120.00/M
-70	-70	-2.5	300	—	10	-5	-50	100	10	MLP322	ZXT4M322CT-ND◆	1.15	.86	ZXT4M322TR-ND◆	3,000	343.80/M
	-75	-2.0	250	—	500	-2	-0.5	1000	25	SOT-223	FZT792ACT-ND◆	1.32	.99	FZT792ATR-ND◆	1,000	374.00
	-70	-1.5	150	—	1000	-5	-0.30	500	20	SOT-23	FMMT722CT-ND◆	.76	.58	FMMT722TR-ND◆	3,000	190.50/M
	-80	-1.0	50	150	150	-10	-0.35	150	15	SOT-23	FMMT551CT-ND◆	.45	.34	FMMT551TR-ND◆	3,000	135.00/M
-80	-100	-1.0	100	250	150	-2	-0.5	500	50	SOT-89	BCX5316CT-ND	.39	.30	BCX5316TR-ND	1,000	110.50
	-90	-1.0	100	300	100	-5	-0.25	150	15	SOT-89	BSR33CT-ND◆	.48	.36	BSR33TR-ND◆	1,000	160.00
	-80	-1.0	100	300	500	-5	-0.2	100	2	SOT-23	ZXTP2039FCT-ND◆	.39	.30	ZXTP2039FTR-ND◆	3,000	117.00/M
	-80	-0.50	50	—	100	-1	-0.25	100	10	SOT-23	FMMTA56CT-ND◆	.42	.32	FMMTA56TR-ND◆	3,000	126.00/M
	-140	-5.0	100	300	1000	-1	-0.22	2000	200	SOT-223	FZT953CT-ND◆	1.80	1.35	FZT953TR-ND◆	1,000	510.00
	-140	-5.0	100	—-	10	-1	-0.1	-1000	100	D-PAK	ZXT953KCT-ND◆	2.48	1.87	ZXT953KTR-ND◆	2,500	703.80/M
	-140	-5.0	100	300	1000	-1	-0.09	1000	100	SOT-223	ZX5T953GCT-ND	1.62	1.22	ZX5T953GTR-ND	1,000	459.00
	-140	-5.0	100	300	1000	-1	-0.09	1000	100	SOT-223	ZXTP2013GCT-ND◆	1.50	1.13	ZXTP2013GTR-ND◆	1,000	425.00
	-140	-3.5	100	300	1000	-1	-0.085	1000	100	SOT-89	ZXTP2013ZCT-ND◆	1.38	1.04	ZXTP2013ZTR-ND◆	1,000	391.00

◆ *RoHS Compliant*

(Continued)

SOT-23

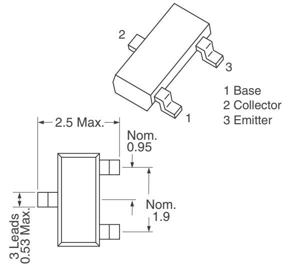

SOT-89

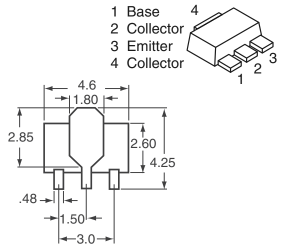

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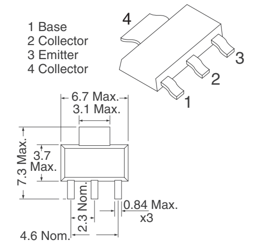

Super E-Line — TO-92

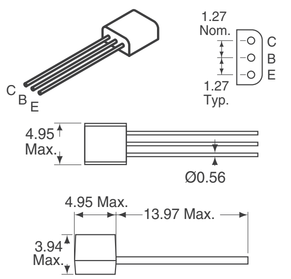

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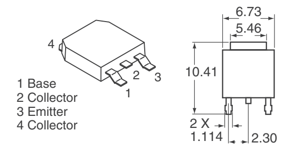

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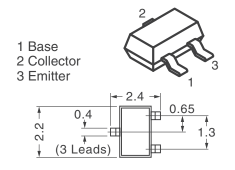

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ZETEX SEMICONDUCTORS

Medium Power Transistors

20-100 Volts *(Cont.)*

Digi-Reel®

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing
-100	-140	-3.5	15	—	-4000	-1	-0.30	-4000	-400	SOT-89	ZX5T953ZCT-ND◆	1.21	.91	ZX5T953ZTR-ND◆	1,000	341.70
	-140	-2.0	15	—	2000	-2	-0.090	500	50	SOT-23	ZXTP25100BFHCT-ND◆	.90	.68	ZXTP25100BFHTR-ND◆	3,000	270.00/M
	-130	-3.0	100	300	1000	-2	-30	100	10	SOT-23	ZXTP2029FCT-ND◆	1.26	.95	ZXTP2029FTR-ND◆	3,000	378.00/M
	-120	-2.0	100	300	500	-2	-0.3	1000	100	SOT-223	FZT753CT-ND◆	1.16	.87	FZT753TR-ND◆	1,000	328.10
	-120	-1.0	100	300	500	-5	-0.3	500	50	SOT-89	FCX593CT-ND◆	.63	.48	FCX593TR-ND◆	1,000	178.50
	-120	-1.0	100	300	500	-10	-0.3	500	50	SOT-23	FMMT593CT-ND◆	.45	.34	FMMT593TR-ND◆	3,000	135.00/M
	-120	-1.0	100	300	500	-2	-0.3	500	50	SOT-223	FZT593CT-ND◆	1.02	.77	FZT593TR-ND◆	1,000	289.00
	-100	-1.0	250	—	500	-10	-0.20	500	50	SOT-23	FMMT723CT-ND◆	.76	.58	FMMT723TR-ND◆	3,000	190.50/M

◆ *RoHS Compliant*

MLP322

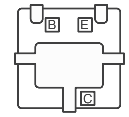

High Voltage Transistors

Digi-Reel®

120-250 Volts

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
										NPN					
120	175	3.0	300	1200	1000	10	0.31	3000	150	Super E-Line —TO-92	ZTX1055A-ND	1.68	12.60	75.60	476.00
	120	0.5	400	—	200	2	0.5	400	5	Super E-Line —TO-92	ZTX694B-ND◆	1.62	12.15	81.00	540.00
140	160	1.0	100	300	150	10	0.7	150	15	Super E-Line —TO-92	ZTX455-ND◆	.84	6.30	42.00	280.00
150	250	4.0	100	300	1000	5	0.26	4000	400	Super E-Line —TO-92	ZTX855-ND◆	1.86	13.95	83.70	527.00
	150	1.0	50	—	500	5	0.5	1000	200	Super E-Line —TO-92	ZTX655-ND	1.38	10.35	69.00	460.00
160	200	3.0	300	1200	500	10	0.3	3000	200	Super E-Line —TO-92	ZTX1056A-ND◆	1.68	12.60	75.60	476.00
180	180	0.5	500	—	100	5	0.25	200	5	Super E-Line —TO-92	ZTX696B-ND	1.62	12.15	81.00	540.00
										PNP					
-140	-140	-0.5	300	800	10	-2	-0.3	200	5	Super E-Line —TO-92	ZTX795A-ND◆	1.68	12.60	84.00	560.00
-150	-150	-1.0	50	—	500	-5	-0.5	1000	200	Super E-Line —TO-92	ZTX755-ND	1.38	10.35	69.00	460.00
	-160	-1.0	50	300	300	-10	-0.3	100	10	Super E-Line —TO-92	ZTX555-ND◆	.84	6.30	42.00	280.00
-200	-220	-2.0	100	300	1000	-5	-0.25	2000	400	Super E-Line —TO-92	ZTX956-ND◆	1.76	13.23	79.38	499.80
	-200	-1.0	50	—	500	-5	-0.5	500	50	Super E-Line —TO-92	ZTX776-ND◆	.67	5.04	33.60	224.00
	-200	-1.0	50	300	300	-10	-0.3	100	10	Super E-Line —TO-92	ZTX576-ND	.84	6.30	42.00	280.00
	-200	-0.5	300	800	10	-10	-0.3	200	20	Super E-Line —TO-92	ZTX796A-ND◆	1.62	12.15	81.00	540.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing
											NPN					
120	120	1.0	400	—	200	2	0.25	100	0.5	SOT-223	FZT694BCT-ND◆	1.32	.99	FZT694BTR-ND◆	1,000	374.00
	140	1.0	100	300	250	10	0.2	250	25	SOT-23	FMMT494CT-ND◆	.45	.34	FMMT494TR-ND◆	3,000	135.00/M
	120	0.5	500	—	100	2	0.25	100	0.5	SM-8	ZDT694CT-ND◆	2.05	1.54	ZDT694TR-ND◆	1,000	684.00
125	125	1.0	100	—	1000	10	0.25	1000	50	SOT-23	FMMT624CT-ND◆	.76	.58	FMMT624TR-ND◆	3,000	190.50/M
140	160	1.0	100	300	150	10	0.7	150	15	SOT-23	FMMT455CT-ND◆ ***NEW!***	.45	.34	FMMT455TR-ND◆ ***NEW!***	3,000	112.50/M
150	200	5.0	100	300	1000	5	0.11	1000	100	SOT-223	FZT855CT-ND◆	1.68	1.26	FZT855TR-ND◆	1,000	476.00
	150	1.0	50	—	500	5	0.5	500	50	SOT-223	FZT655CT-ND◆	1.08	.81	FZT655TR-ND◆	1,000	306.00
	170	0.1	100	300	250	10	0.3	500	50	SOT-89	FCX495CT-ND	.63	.48	FCX495TR-ND	1,000	178.50
	150	1.0	300	—	200	10	0.3	1000	50	SOT-23	FMMT625CT-ND◆	.76	.58	FMMT625TR-ND◆	3,000	190.50/M
	170	1.0	100	300	250	10	0.2	250	25	SOT-23	FMMT495CT-ND◆	.45	.34	FMMT495TR-ND◆	3,000	135.00/M
180	180	0.5	500	—	100	5	0.25	200	5	SOT-223	FZT696BCT-ND◆	1.32	.99	FZT696BTR-ND◆	1,000	374.00
250	300	0.5	40	—	20	10	0.5	50	4	SOT-89	BST40CT-ND	.99	.75	—	—	—
											PNP					
-140	-180	-4.0	100	300	1000	-5	-0.15	1000	100	SOT-223	FZT955CT-ND	1.80	1.35	FZT955TR-ND	1,000	510.00
	-180	-4.0	100	300	1000	-5	-0.12	1000	100	SOT-223	ZX5T955GCT-ND	1.62	1.22	ZX5T955GTR-ND	1,000	459.00
	-180	-4.0	100	300	1000	-5	-0.12	1000	100	SOT-223	ZXTP2014GCT-ND◆	1.50	1.13	ZXTP2014GTR-ND◆	1,000	425.00
	-180	-3.0	100	300	1000	-5	-60	100	5	E-Line	ZTX955CT-ND◆	1.86	1.40	ZTX955TR-ND◆	4,000	465.00/M
	-180	-3.0	100	300	1000	-5	-0.115	1000	100	SOT-89	ZXTP2014ZCT-ND◆	1.38	1.04	ZXTP2014ZTR-ND◆	1,000	391.00
	-180	-1.0	100	300	10	-2	-50	100	10	SOT-23	ZXTP25140BFHCT-ND◆	.90	.68	ZXTP25140BFHTR-ND◆	3,000	270.00/M
	-160	-2.5	100	300	1000	-5	-55	100	5	SOT-23	ZXTP23140BFHCT-ND◆	1.26	.95	ZXTP23140BFHTR-ND◆	3,000	378.00/M
	-140	-0.5	250	—	200	-2	-0.3	200	5	SOT-223	FZT795ACT-ND	1.32	.99	FZT795ATR-ND	1,000	374.00
-150	-150	-1.0	50	—	500	-5	-0.5	500	50	SOT-223	FZT755CT-ND	1.16	.87	FZT755TR-ND	1,000	328.10
-180	-180	-0.7	100	300	-100	-5	-0.4	-250	-25	SOT-89	FCX555CT-ND◆	.64	.49	FCX555TR-ND◆	1,000	181.90
-200	-220	-2.0	100	300	1000	-5	-0.165	1000	100	SOT-223	FZT956CT-ND◆	1.80	1.35	FZT956TR-ND◆	1,000	510.00
	-220	-0.3	85	300	250	-10	-0.35	250	25	SOT-89	FCX596CT-ND	.63	.48	FCX596TR-ND	1,000	178.50
	-220	-0.5	100	300	250	-10	-0.35	250	25	SOT-23	FMMT596CT-ND◆	.54	.41	FMMT596TR-ND◆	3,000	162.00/M
	-200	-0.5	250	—	300	-10	-0.3	200	20	SOT-223	FZT796ACT-ND◆	1.32	.99	FZT796ATR-ND◆	1,000	374.00

300-500 Volts

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
										NPN — RoHS Compliant					
300	300	0.5	50	—	100	5	0.5	100	10	Super E-Line —TO-92	ZTX657-ND	1.38	10.35	69.00	460.00
	300	0.5	50	300	50	10	0.3	100	10	Super E-Line —TO-92	ZTX457-ND	.84	6.30	42.00	280.00
400	400	0.5	50	—	100	5	0.5	100	10	Super E-Line —TO-92	ZTX658-ND	1.38	10.35	69.00	460.00
	400	0.3	100	300	50	10	0.5	50	6	Super E-Line —TO-92	ZTX458-ND	.84	6.30	42.00	280.00
										PNP					
-300	-300	-1	100	300	500	-10	-0.20	1000	300	Super E-Line —TO-92	ZTX957-ND◆	1.86	13.95	83.70	527.00
	-300	-0.5	50	—	100	-5	-0.5	100	10	Super E-Line —TO-92	ZTX757-ND	1.08	8.10	54.00	360.00
	-300	-0.5	50	300	50	-10	-0.3	50	5	Super E-Line —TO-92	ZTX557-ND◆	.84	6.30	42.00	280.00
-400	-400	-0.5	100	300	500	-10	-0.40	500	100	Super E-Line —TO-92	ZTX958-ND◆	1.86	13.95	83.70	527.00
	-400	-0.5	50	—	100	-5	-0.5	100	10	Super E-Line —TO-92	ZTX758-ND◆	1.38	10.35	69.00	460.00
	-400	-0.2	100	300	50	-10	-0.5	50	6	Super E-Line —TO-92	ZTX558-ND◆	.84	6.30	42.00	280.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing
											NPN					
300	350	3.5	100	300	1000	5	0.23	2000	200	SOT-223	FZT857CT-ND◆	1.68	1.26	FZT857TR-ND◆	1,000	476.00
	300	0.5	50	—	100	5	0.5	100	10	SOT-223	FZT657CT-ND◆	1.08	.81	FZT657TR-ND◆	1,000	306.00
	300	0.2	40	—	30	10	0.5	20	2.0	SOT-23	FMMTA42CT-ND◆	.42	.32	FMMTA42TR-ND◆	3,000	126.00/M
	300	0.5	40	—	30	10	0.5	20	2	SOT-89	SXTA42CT-ND◆ ***NEW!***	.48	.36	SXTA42TR-ND◆ ***NEW!***	1,000	136.00
	300	0.5	100	—	100	10	0.2	100	10	SOT-23	FMMT497CT-ND◆	.45	.34	FMMT497TR-ND◆	3,000	135.00/M
350	400	0.5	40	—	20	10	0.5	50	4	SOT-89	BST39CT-ND◆	.48	.36	BST39TR-ND◆	1,000	136.00
	350	0.5	30	200	30	10	1.0	50	5	SOT-23	FMMT6517CT-ND◆ ***NEW!***	.39	.30	FMMT6517TR-ND◆ ***NEW!***	3,000	97.50/M

◆ *RoHS Compliant*

(Continued)

SOT-23

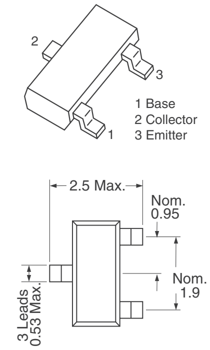

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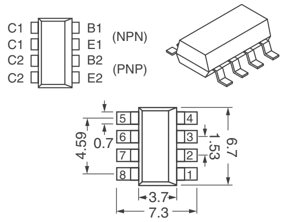

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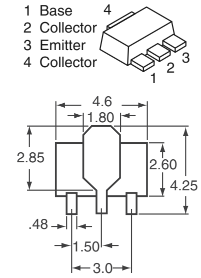

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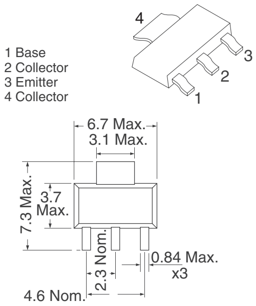

ZETEX SEMICONDUCTORS

High Voltage Transistors

300-500 Volts *(Cont.)*

Digi-Reel®

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing
400	400	0.5	35	—	200	10	0.2	100	10	SOT-89	FCX658ACT-ND◆	.78	.59	FCX658ATR-ND◆	1,000	221.00
	400	0.5	50	—	100	5	0.5	100	10	SOT-223	FZT658CT-ND	1.08	.81	FZT658TR-ND	1,000	306.00
	400	0.225	100	300	50	10	0.5	50	6	SOT-89	FCX458CT-ND◆	.63	.48	FCX458TR-ND◆	1,000	178.50
	400	0.225	100	300	50	10	0.2	20	2	SOT-23	FMMT458CT-ND◆	.45	.34	FMMT458TR-ND◆	3,000	135.00/M
	450	0.5	10	—	500	10	0.175	500	100	SOT-23F	ZXTN08400BFFCT-ND◆	.78	.59	ZXTN08400BFFTR-ND◆	3,000	195.00/M
	400	0.3	100	300	50	10	0.2	20	2	SOT-223	FZT458CT-ND◆ ***NEW!***	1.02	.77	FZT458TR-ND◆ ***NEW!***	1,000	289.00
450	500	0.15	50	—	30	10	0.075	20	2.0	SOT-23	FMMT459TACT-ND◆	.77	.59	FMMT459TATR-ND◆	3,000	225.75/M
PNP																
-300	-300	-1.0	100	300	500	-10	-0.24	1000	300	SOT-223	FZT957CT-ND◆	1.80	1.35	FZT957TR-ND◆	1,000	510.00
	-300	-0.5	50	—	100	-5	-0.5	100	10	SOT-223	FZT757CT-ND◆	1.16	.87	FZT757TR-ND◆	1,000	328.10
	-350	-0.5	30	150	50	-10	-2.0	50	5	SOT-89	BST16CT-ND◆	.99	.75	—	—	—
	-300	-0.5	25	—	1	-10	-0.5	20	2	SOT-223	FZTA92CT-ND◆	.66	.50	FZTA92TR-ND◆	1,000	220.00
	-300	-0.2	100	—	100	-10	-0.25	100	20	SOT-23	FMMT597CT-ND◆	.54	.41	FMMT597TR-ND◆	3,000	162.00/M
	-300	-0.2	25	—	30	-10	-0.5	20	2	SOT-23	FMMTA92CT-ND◆	.42	.32	FMMTA92TR-ND◆	3,000	126.00/M
-350	-350	-0.5	30	200	-30	-10	-0.5	-30	-3	SOT-23	FMMT6520CT-ND◆ ***NEW!***	.39	.30	FMMT6520TR-ND◆ ***NEW!***	3,000	97.50/M
-400	-400	-0.5	100	300	500	-10	-0.40	500	100	SOT-223	FZT958CT-ND	1.80	1.35	FZT958TR-ND	1,000	510.00
	-400	-0.5	50	—	100	-5	-0.5	100	10	SOT-223	FZT758CT-ND◆	1.16	.87	FZT758TR-ND◆	1,000	328.10
	-400	-0.2	100	300	-50	-10	-0.5	-50	-6	SOT-223	FZT558CT-ND◆ ***NEW!***	1.02	.77	FZT558TR-ND◆ ***NEW!***	1,000	289.00
	-400	-0.2	100	300	50	-10	-0.5	50	6	SOT-89	FCX558CT-ND◆	.63	.48	FCX558TR-ND◆	1,000	178.50
	-400	-0.2	100	—	-200	-10	-0.19	-200	-40	SOT-23F	ZXTP08400BFFCT-ND◆	.78	.59	ZXTP08400BFFTR-ND◆	3,000	195.00/M
	-400	-0.15	100	300	50	-10	-0.2	20	2	SOT-23	FMMT558CT-ND◆	.45	.34	FMMT558TR-ND◆	3,000	135.00/M
-500	-500	-0.15	80	300	-50	-10	-0.2	-20	-2	SOT-223	FZT560CT-ND◆ ***NEW!***	1.14	.86	FZT560TR-ND◆ ***NEW!***	1,000	323.00
	-500	-0.5	80	—	50	-10	-0.2	20	2	SOT-23	FMMT560CT-ND◆	.66	.50	FMMT560TR-ND◆	3,000	198.00/M

◆ ***RoHS Compliant***

Super E-Line — TO-92

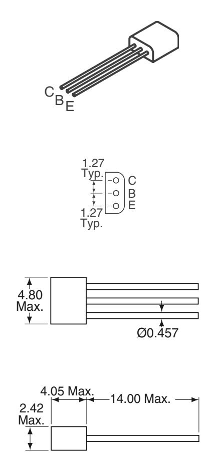

Transistors

Darlington

Digi-Reel®

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
NPN — RoHS Compliant															
80	100	1.0	2K	100K	1000	5	1.0	1000	1	Super E-Line —TO-92	ZTX603-ND	1.38	10.35	69.00	460.00
100	120	0.8	10K	—	500	5	1.25	800	8	Super E-Line —TO-92	ZTX614-ND	.84	6.30	42.00	280.00
120	140	1.0	2K	100K	1000	5	1.5	1000	1	Super E-Line —TO-92	ZTX605-ND	1.38	10.35	69.00	460.00
160	180	1.0	2K	100K	500	10	1.2	1000	10	Super E-Line —TO-92	ZTX601-ND	1.38	10.35	69.00	460.00
			10K	100K	500	10	1.2	1000	10	Super E-Line —TO-92	ZTX601B-ND	1.38	10.35	69.00	460.00
PNP															
-120	-140	-1.0	3K	30K	1000	-5	-1.3	1000	1	Super E-Line —TO-92	ZTX705-ND	1.38	10.35	69.00	460.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing
NPN — RoHS Compliant																
30	30	0.3	5K	—	10	5	1.5	100	0.1	SOT-23	FMMTA13CT-ND	.42	.32	FMMTA13TR-ND	3,000	126.00/M
		0.3	10K	—	10	5	1.5	100	0.1	SOT-23	FMMTA14CT-ND	.42	.32	FMMTA14TR-ND	3,000	126.00/M
		1.0	5K	—	1000	5	1.6	1000	1	SOT-223	FZTA14CT-ND	.66	.50	FZTA14TR-ND	1,000	187.00
60	80	0.5	2000	—	500	5	1.0	100	0.1	SOT-23	BCV47CT-ND ***NEW!***	.45	.34	BCV47TR-ND ***NEW!***	3,000	112.50/M
	80	0.3	10K	—	500	5	1.25	800	8.0	SOT-23	FMMT38CCT-ND	.42	.32	FMMT38CTR-ND	3,000	126.00/M
80	100	2.0	5K	100K	500	5	1.0	1000	1	SOT-223	FZT603CT-ND	1.08	.81	FZT603TR-ND	1,000	306.00
	90	0.5	2K	—	500	10	1.3	500	0.5	SOT-89	BST52CT-ND	.48	.36	BST52TR-ND	1,000	136.00
100	120	0.5	5K	—	500	5	1.0	500	5	SOT-23	FMMT614CT-ND	.54	.41	FMMT614TR-ND	3,000	162.00/M
	120	0.9	5000	—	2000	5	0.85	500	5	SOT-23	FMMT634CT-ND ***NEW!***	.76	.58	FMMT634TR-ND ***NEW!***	3,000	190.50/M
120	140	2.0	5K	—	500	5	1.0	250	0.25	SOT-223	FZT605CT-ND	1.08	.81	FZT605TR-ND	1,000	306.00
		1.0	1K	—	2000	5	1.5	2000	5	SOT-23F	ZXTN04120HFFCT-ND	.78	.59	ZXTN04120HFFTR-ND	3,000	195.00/M
		1.0	2K	—	1000	5	1.0	250	0.25	SOT-89	FCX605CT-ND	.78	.59	FCX605TR-ND	1,000	221.00
140	160	2.0	1K	—	1000	10	1.2	1000	10	SOT-223	FZT600CT-ND	1.08	.81	FZT600TR-ND	1,000	306.00
	160	2.0	1000	100k	1000	10	1.1	500	5	SOT-223	FZT600BCT-ND ***NEW!***	1.08	.81	FZT600BTR-ND ***NEW!***	1,000	306.00
PNP — RoHS Compliant																
-60	-80	-0.5	2000	—	-500	-5	-1.0	-100	-0.1	SOT-23	BCV46CT-ND ***NEW!***	.45	.34	BCV46TR-ND ***NEW!***	3,000	112.50/M
-100	-100	-0.8	15K	—	-1000	-5	-1.05	-1000	-5	SOT-23	FMMT734CT-ND	.76	.58	FMMT734TR-ND	3,000	215.90/M
-120	-140	-2.0	3K	30K	-1000	-5	-1.3	-1000	-1	SOT-223	FZT705CT-ND	1.16	.87	FZT705TR-ND	1,000	328.10
		-1.0	3K	30K	-1000	-5	-1.3	-1000	-1	SOT-89	FCX705CT-ND	.78	.59	FCX705TR-ND	1,000	260.00
		-1.0	2K	—	-2000	-5	-2.0	-2000	-2	SOT-23F	ZXTP05120HFFCT-ND	.78	.59	ZXTP05120HFFTR-ND	3,000	195.00/M

RF - NPN

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
15	30	0.025	25	150	2	1	—	—	—	Super E-Line —TO-92	ZTX325-ND	.67	5.04	33.60	224.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing
15	30	0.10	20	—	3	1	0.4	10	10	SOT-323	ZUMT918CT-ND	.80	.60	—	—	—
	25	0.025	70	200	2	1	—	—	—	SOT-23	BFS17HCT-ND◆	.65	.50	BFS17HTR-ND◆	3,000	196.20/M

Small Signal

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing
NPN																
15	40	0.2	40	120	10	1	0.20	10	1	SOT-323	ZUMT2369ACT-ND	1.01	.76	ZUMT2369ATR-ND	3,000	302.40/M
PNP																
-32	-32	-0.20	-380	-630	-2	-5	-0.25	-10	-0.25	SOT-23	BCW61DCT-ND	.88	.66	BCW61DTR-ND	3,000	262.80/M

◆ ***RoHS Compliant*** † See drawing *(Continued)*

Super E-Line — TO-92

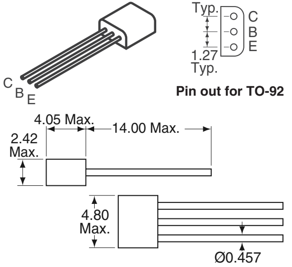

Bottom Views

SOT-23

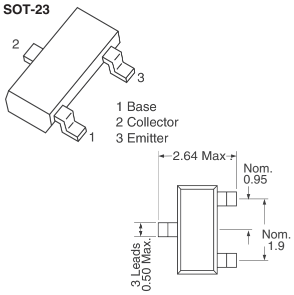

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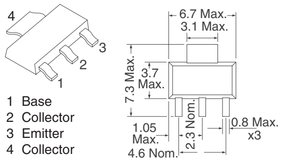

SOT-89

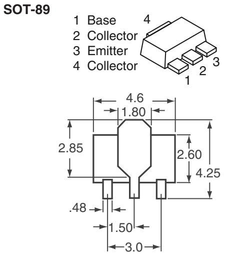

Avalanche – NPN

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
100	260	60	25	—	10	10	0.25	250	—	Super E-Line —TO-92	ZTX415-ND◆	26.57	199.26	1195.56	7527.60

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Qty.	Pricing
100	260	.50	25	—	10	10	0.5	10	1	SOT-23	FMMT415CT-ND	25.16	18.88	FMMT415TR-ND	3,000	6291.00/M
100	320	.50	25	—	10	10	0.5	10	1	SOT-23	FMMT417TDCT-ND◆	28.80	21.60	FMMT417TDTR-ND◆	500	5040.00

Dual Combinations

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Qty.	Pricing
Dual NPN																
15	70	4.5	200	—	10	2	14	100	10	MLP 3 x 2	ZXTDAM832TACT-ND	1.51	1.14	ZXTDAM832TATR-ND	3,000	453.60/M
	15	3.0	200	—	.003	2	.200	.003	50	SM-8	ZDT617CT-ND	1.86	1.40	ZDT617TR-ND	1,000	527.00
17.5	50	5.0	300	—	.001	2	.300	.005	50	SM-8	ZDT1048CT-ND◆	2.81	2.11	ZDT1048TR-ND◆	1,000	795.60
20	100	4.5	200	—	10	2	8	100	10	MLP 3 x 2	ZXTDBM832TACT-ND	1.51	1.14	—	—	—
	50	3.5	300	900	1000	2	0.20	3500	50	MSOP-8	ZXT12N20DXCT-ND	2.70	2.03	ZXT12N20DXTR-ND	1,000	765.00
25	35	2.0	75	—	.002	2	.500	.002	200	SM-8	ZDT649CT-ND	1.55	1.17	ZDT649TR-ND	1,000	438.60
50	100	3.0	300	900	1000	2	0.25	3000	50	MSOP-8	ZXT12N50DXCT-ND◆	2.70	2.03	ZXT12N50DXTR-ND◆	1,000	765.00
	50	2.0	200	—	.001	2	.200	.001	10	SM-8	ZDT619CT-ND	1.55	1.17	—	—	—
	50	1.0	200	—	10	2	0.035	100	10	SOT-23-6	ZXTD09N50DE6CT-ND◆	1.79	1.35	ZXTD09N50DE6TR-ND◆	3,000	448.50/M
60	80	2.0	100	—	.001	2	.500	.002	200	SM-8	ZDT651CT-ND◆	1.55	1.17	—	—	—
75	150	5.0	300	1200	1000	2	.100	1000	50	SM-8	ZDT1053CT-ND◆	2.81	2.11	ZDT1053TR-ND◆	1,000	795.60
Dual PNP																
-12	-35	-4.0	300	—	10	-2	-10	100	10	MLP 3 x 2	ZXTD1M832TACT-ND	1.51	1.14	—	—	—
	-20	-3.0	300	900	1000	-2	-0.27	3000	30	MSOP-8	ZXT12P12DXCT-ND◆	2.70	2.03	ZXT12P12DXTR-ND◆	1,000	563.00
-20	-25	-3.5	300	—	-100	-2	-0.35	-2500	-150	MLP 3 x 2	ZXTD2M832CT-ND◆† ***NEW!***	1.51	1.14	ZXTD2M832TR-ND◆† ***NEW!***	3,000	378.00/M
	-25	-2.5	300	900	1000	-2	-0.20	2500	125	MSOP-8	ZXT12P20DXCT-ND	2.70	2.03	—	—	—
-25	-35	-6.0	100	300	1000	-2	-0.3	1000	100	SM-8	ZDT749CT-ND◆	2.05	1.54	ZDT749TR-ND◆	1,000	684.00
-40	-50	-3.0	300	—	-10	-2	-40	100	10	832MLP	ZXTD3M832CT-ND◆	1.51	1.14	ZXTD3M832TR-ND◆	3,000	453.60/M
		-2.0	300	900	1000	-2	-0.26	2000	100	MSOP-8	ZXT12P40DXCT-ND◆	2.70	2.03	ZXT12P40DXTR-ND◆	1,000	765.00
-140	-140	-0.5	300	800	10	-2	-0.3	-100	1	SM-8	ZDT795ACT-ND◆	2.05	1.54	ZDT795ATR-ND◆	1,000	684.00
-400	-400	-0.5	50	—	1	-5	-0.3	-20	1	SM-8	ZDT758CT-ND◆	1.55	1.17	—	—	—
NPN/PNP Combinations																
15 -12	15 -12	0.0015 -0.0012	200 -300	— —	10 -10	2 -2	20 -40	100 -100	10 -10	SOT-23-6	ZXTD6717E6TACT-ND	.93	.70	ZXTD6717E6TATR-ND	3,000	232.50/M
18 -25	70 -35	4.5 -4.0	200 -475	— —	10 -10	2 -2	8 -10	100 -100	10 -10	MLP 3 x 2	ZXTDA1M832TACT-ND	1.51	1.14	ZXTDA1M832TATR-ND	3,000	453.60/M
20 -20	20 -20	2.0 -1.5	200 -150	— —	.002 -.002	2 -2	.200 -.220	.0025 -.0015	50 -50	SM-8	ZDT6718CT-ND◆	2.05	1.54	—	—	—
45 -40	45 -50	2.0 -2.0	150 -150	— —	.002 -.002	2 -2	.500 -.450	.001 -.001	5 -10	SM-8	ZDT6790CT-ND◆	2.05	1.54	ZDT6790TR-ND◆	1,000	581.40
50 -40	100 -50	4.0 -3.0	200 -300	400 —	10 -10	2 -2	.020 -.040	10 -10	10 -10	832MLP	ZXTDC3M832TACT-ND◆	1.51	1.14	ZXTDC3M832TATR-ND◆	3,000	453.60/M
65 -70	190 -80	4.0 -3.0	200 -300	— —	10 -10	2 -2	8 -25	100 -100	10 -10	MLP 3 x 2	ZXTDCM832TACT-ND	1.51	1.14	ZXTDCM832TATR-ND	3,000	453.60/M
60 -60	80 -80	1.0 -1.0	100 -100	— —	.0005 -.0005	5 -5	.500 -.600	.001 -.001	100 -100	SOT-23-6	ZXTD4591E6CT-ND	.93	.70	ZXTD4591E6TR-ND	3,000	232.50/M
80 -70	100 -70	3.5 -2.5	200 -300	— —	10 -10	2 -5	.02 -.05	10 -10	10 -10	832MLP	ZXTDE4M832TACT-ND◆	1.51	1.14	ZXTDE4M832TATR-ND◆	3,000	453.60/M
300 -300	300 -300	0.5 -0.5	50 -50	— —	.0001 -.0001	5 -5	.500 -.500	.0001 -.0001	10 -10	SM-8	ZDT6757CT-ND	1.55	1.17	—	—	—
Dual Complementary — RoHS Compliant																
27	100	4.5	200	—	10	2	8	100	10	MLP 3 x 2	ZXTDB2M832TACT-ND	1.51	1.14	ZXTDB2M832TATR-ND	3,000	453.60/M
40 -40	40 -40	2.0 -1.5	300 -300	— -900	1 -0.5	5 -5	3 -2	50 -1	50 -100	832MLP	ZXTD4591AM832TACT-ND	1.51	1.14	ZXTD4591AM832TATR-ND	3,000	453.60/M
40 -40	40 -40	1.5 -1.5	180 -180	500 -500	100 -100	2 -2	.375 -.375	750 -750	15 -15	SOT-23-6	ZXTC2045E6CT-ND	1.51	1.14	ZXTC2045E6TR-ND	3,000	279.00/M

SM-8 H Bridge

V_{CEO} (V)	V_{CBO} (V)	I_C - D_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Qty.	Pricing
NPN/PNP — RoHS Compliant																
20 -20	20 -20	2.5 -2.5	200 150	— —	2 2	2 -2	0.15 -0.2	1000 1000	10 20	SM-8	ZHB6718CT-ND	4.70	3.53	ZHB6718TR-ND	1,000	1331.10
50 -50	40 -40	2.0 -2.0	150 150	— —	2 2	2 -2	0.5 -0.45	1000 1000	5 10	SM-8	ZHB6790CT-ND	5.75	4.32	ZHB6790TR-ND	1,000	1628.60
70 -70	70 -70	1.0 -1.0	150 200	— —	1000 -1000	2 -2	0.15 -0.45	1000 500	0.5 -5	SM-8	ZHB6792CT-ND ***NEW!***	5.75	4.32	ZHB6792TR-ND ***NEW!***	1,000	1628.60

VDS (V)	RDS(on) (Ω)	ID (A)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Qty.	Pricing
Mosfet N/P Channel — RoHS Compliant									
30 -30	0.12 0.21	3.1 -2.3	SM-8	ZXMHC3A01T8CT-ND	3.30	2.48	ZXMHC3A01T8TR-ND	1,000	935.00
60	0.3	1.6	SM-8	ZXMHN6A07T8CT-ND	3.60	2.70	ZXMHN6A07T8TR-ND	1,000	1020.00

Transistor and Schottky Diode Combinations

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE} Min.	h_{FE} Max.	@ I_C (mA)	@ V_{CE} (V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Qty.	Pricing
NPN																
27	100	4.5	200	—	8	2	15	10	10	MLP 3 x 2	ZX3CDBS1M832TACT-ND†	1.54	1.16	ZX3CDBS1M832TATR-ND†	3,000	460.80/M
PNP																
-25	-35	-4.0	300	—	10	-2	-10	100	10	MLP 3 x 2	ZX3CD1S1M832TACT-ND†	1.71	1.29	ZX3CD1S1M832TATR-ND†	3,000	513.00/M
-12	-12	-1.25	125	—	1250	-2	-0.240	1250	100	SOT-23-6	ZXTS1000E6CT-ND	.93	.70	ZXTS1000E6TR-ND	3,000	232.50/M

◆ ***RoHS Compliant*** † See drawing

SOT-323

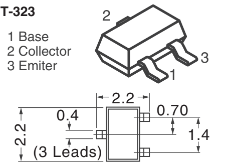

MLP 3 x 2 (832MLP)

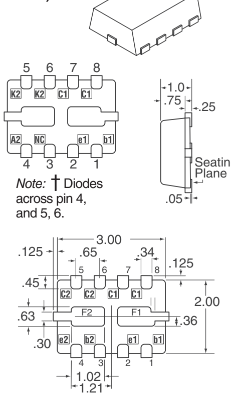

Note: † Diodes across pin 4, and 5, 6.

SM-8

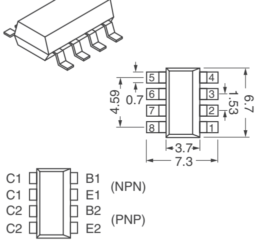

SM-8 H Bridge

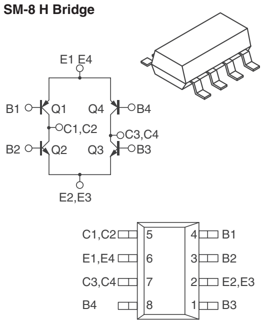

MSOP-8

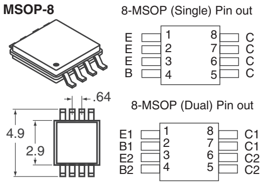

SOT-23-6

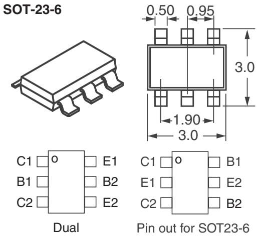

ZETEX SEMICONDUCTORS

Diodes

Varactor

V_{BR} (V)	P_{TOT} (mW)	C2 Nominal Capacitance (pF)	Capacitance Ratio C_2/C_{20} at f = 1MHz Min.	Max.	Packaging Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
25V Hyperabrupt — 830 Series											
25	300	8.2	4.3	5.8	SOD-323	ZMV829ACT-ND	1.97	14.81	88.83	—	—
	330	8.2	4.3	5.8	SOT-23	ZC829ACT-ND	2.28	17.10	102.60	ZC829ATR-ND	570.00/M
	300	10	4.5	6.0	SOD-323	ZMV830ACT-ND	3.01	22.59	135.54	—	—
	330	10	4.5	6.0	SOT-23	ZC830BCT-ND◆	3.05	22.91	152.70	—	—
	330	10	4.5	6.0	SOD-323	ZMV830BCT-ND◆	3.01	22.59	150.60	ZMV830BTR-ND◆	753.00/M
	330	15	4.5	6.0	SOT-23	ZC831ACT-ND	2.28	17.10	102.60	—	—
	330	15	4.5	6.0	SOD-523	ZV831BV2TACT-ND	1.32	9.90	66.00	ZV831BV2TATR-ND	396.00/M
	330	15	4.5	6.0	SOT-23	ZC831BCT-ND◆	2.97	22.28	148.50	ZC831BTR-ND◆	742.50/M
	300	22	5.0	6.5	SOD-323	ZMV832ACT-ND	2.50	18.72	112.32	—	—
	330	22	5.0	6.5	SOD-523	ZV832BV2TACT-ND	1.32	9.90	66.00	ZV832BV2TATR-ND	396.00/M
	330	22	5.0	6.5	SOT-23	ZC832BCT-ND◆	3.28	24.62	164.10	ZC832BTR-ND◆	820.50/M
	330	22	5.0	6.5	SOD-323	ZMV832BCT-ND◆	3.24	24.30	162.00	ZMV832BTR-ND◆	810.00/M
	300	47	5.0	6.5	SOD-323	ZMV834ACT-ND	2.38	17.87	107.19	—	—
	330	47	5.0	6.5	SOT-23	ZC834ACT-ND	2.53	18.99	113.94	ZC834ATR-ND	633.00/M
	330	47	5.0	6.5	SOT-23	ZC834BCT-ND◆	3.29	24.66	164.40	ZC834BTR-ND◆	822.00/M
	330	47	5.0	6.5	SOD-323	ZMV834BCT-ND◆	1.97	14.81	98.70	ZMV834BTR-ND◆	493.50/M
	300	68	5.0	6.5	SOD-323	ZMV835ACT-ND	1.97	14.81	88.83	ZMV835ATR-ND	493.50/M
	330	100	5.0	6.5	SOT-23	ZC836ACT-ND	2.53	18.99	113.94	ZC836ATR-ND	633.00/M

V_{BR} (V)	P_{TOT} (mW)	C_d @ V_R=1V Min.	V_R=2.5V Min.	Max.	V_R=4V Max.	Q Min.	Packaging Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
12V Hyperabrupt — 930 Series													
12	300	8.7	4.3	5.5	2.9	350	SOD-323	ZMV930CT-ND	2.86	21.42	128.52	ZMV930TR-ND	714.00/M
	330	8.7	4.3	5.5	2.9	350	SOT-23	ZC930CT-ND	4.32	32.40	194.40	ZC930TR-ND	1080.00/M
	330	13.5	6.5	7.8	4	300	SOD-523	ZV931V2TACT-ND	1.59	11.93	79.50	—	—
	300	14.5	6.5	7.8	4	300	SOD-323	ZMV931CT-ND	2.86	21.42	128.52	ZMV931TR-ND	714.00/M
	330	14.5	6.5	7.8	4	300	SOT-23	ZC931CT-ND	4.32	32.40	194.40	ZC931TR-ND	1080.00/M
	330	17	8.5	10.5	5.5	200	SOD-523	ZV932V2TACT-ND	1.59	11.93	79.50	ZV932V2TATR-ND	477.00/M
	300	17	8.5	10.5	5.5	200	SOD-323	ZMV932CT-ND◆	2.86	21.42	128.52	ZMV932TR-ND◆	714.00/M
	330	17	8.5	10.5	5.5	200	SOT-23	ZC932CT-ND◆	4.32	32.40	194.40	ZC932TR-ND◆	1080.00/M
	330	42	18	27	12	150	SOD-523	ZV933V2TACT-ND	1.59	11.93	79.50	ZV933V2TATR-ND	477.00/M
	300	42	18	27	12	150	SOD-323	ZMV933CT-ND◆	3.05	22.86	137.16	ZMV933TR-ND◆	762.00/M
	330	42	18	27	12	150	SOT-23	ZC933CT-ND	4.32	32.40	194.40	ZC933TR-ND	1080.00/M
	300	42	20.25	24.75	12	150	SOD-323	ZMV933ACT-ND◆	3.05	22.86	137.16	ZMV933ATR-ND◆	762.00/M
	330	42	20.25	24.75	12	150	SOT-23	ZC933ACT-ND	4.32	32.40	194.40	ZC933ATR-ND	1080.00/M
	300	95	40	65	25	80	SOD-323	ZMV934CT-ND	2.86	21.42	128.52	ZMV934TR-ND	714.00/M
	330	95	40	65	25	80	SOT-23	ZC934CT-ND	4.32	32.40	194.40	ZC934TR-ND	1080.00/M
	300	95	47.25	57.75	25	80	SOD-323	ZMV934ACT-ND◆	3.05	22.86	137.16	ZMV934ATR-ND◆	762.00/M
	330	95	47.25	57.75	25	80	SOT-23	ZC934ACT-ND	4.32	32.40	194.40	ZC934ATR-ND	1080.00/M

Capacitance pF V_R=0.5V at f=1MHz	Capacitance pF V_R=0.5V at Nf=1MHz Min.	Max.	Capacitance Ratio $C_{0.5}/C_{2.5}$ at f=1MHz	Minimum Q V_R=0.5V f=50MHz	Packaging Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Low Voltage Hyperabrupt — 950 Series											
9.5	6.3	7.8	2.0	500	SOD-523	ZV950V2TACT-ND	1.32	9.90	66.00	—	—
19	12.7	15.7		350	SOD-523	ZV952V2TACT-ND	1.59	11.93	79.50	ZV952V2TATR-ND	477.00/M
45	30	37		250	SOT-323	ZMDC953TACT-ND	1.51	11.30	75.30	—	—

V_R (V)	Norm Cd (pf) Min.	Max.	Cap Ratio @	Min.	Max.	P_{TOT} (mW)	Packaging Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
28	26	32	C3/C25	5	6.5	330	SOT-23	BBY40CT-ND	1.06	7.97	53.10	BBY40TR-ND	318.60/M
30	20	25	C3/C25	4.5	—	330	SOT-23	FMMV3102CT-ND	.81	6.08	40.50	—	—
	6.1	7.5	C2/C30	2.5	3.3			FMMV2101CT-ND	.81	6.08	40.50	—	—
	10.8	13.2	C2/C30	2.6	3.3			FMMV2104CT-ND	.81	6.08	40.50	FMMV2104TR-ND	243.00/M

◆ ***RoHS Compliant***

Schottky Diodes

V_R Max. (V)	I_F Max. (mA)	V_F @ Max. (mV)	I_F (mA)	Ir @ Max. (µA)	Vr (V)	Pinning Configu-ration	Pack-aging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Rectifiers													
10	570	580	1000	4	5	—	SOD323	ZLLS410CT-ND◆ ***NEW!***	.60	.45	.27	ZLLS410TR-ND◆ ***NEW!***	150.00/M
30	200	500	30	4	25	Single	SOT-23	BAT54CT-ND	.11	.09	.06	BAT54TR-ND	23.03/M
40	2000	500	2000	250	30	—	SOT-23-6	ZHCS2000CT-ND ◆	1.05	.79	.53	ZHCS2000TR-ND◆	262.50/M
	1000	500	1000	100	30	Single	SOT-23	ZHCS1000CT-ND◆	.75	.57	.34	ZHCS1000TR-ND◆	187.50/M
	750	540	750	100	30	Single	SOT-23	ZHCS750CT-ND◆	.84	.63	.38	ZHCS750TR-ND◆	210.00/M
	750	540	1000	100	30	—	SOT-23	BAT750CT-ND◆ ***NEW!***	.72	.54	.33	BAT750TR-ND◆ ***NEW!***	180.00/M
	500	550	500	40	30	Single	SOT-23	ZHCS500CT-ND◆	.63	.48	.32	ZHCS500TR-ND◆	189.00/M
	400	500	400	40	30	Single	SOD-323	ZHCS400CT-ND◆	.54	.41	.27	ZHCS400TR-ND◆	162.00/M
	350	325	30	12	30	Single	SOD-523	ZHCS350TACT-ND◆	.54	.41	.27	ZHCS350TATR-ND◆	162.00/M
60	1650	600	1000	100	45	Dual	MLP832	ZXSDS2M832CT-ND◆ ***NEW!***	1.54	1.16	.70	ZXSDS2M832TR-ND◆ ***NEW!***	384.00/M
	900	600	1000	100	45	Single	SOT-23	ZHCS1006CT-ND◆	.75	.57	.38	ZHCS1006TR-ND◆	225.00/M

◆ ***RoHS Compliant***

(Continued)

SOD-323

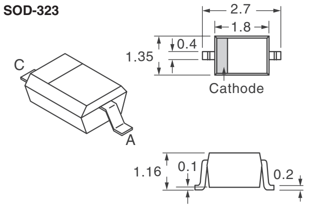

SOD-523

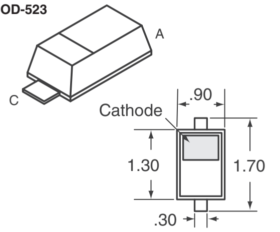

SOT-23/ SOT-323 (Varactor)

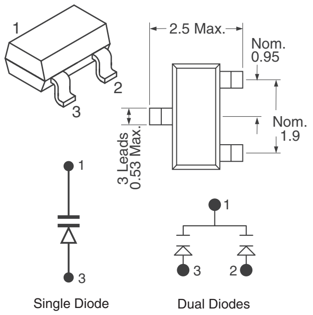

SOT-23 (Schottky/Switching/Zener)

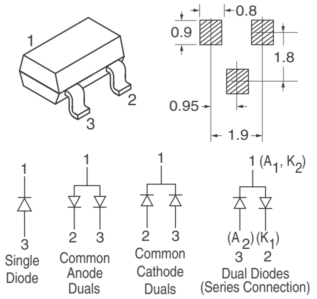

SOT-23-6

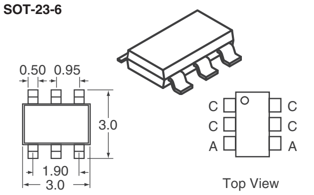

SOT-323

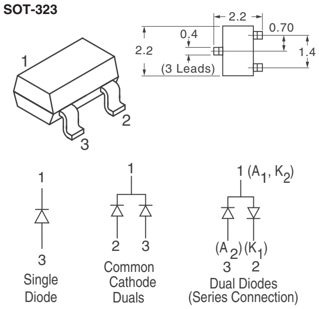

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ZETEX SEMICONDUCTORS

Diodes

Schottky Diodes *(Cont.)*

V_R Max. (V)	I_F Max. (mA)	V_F @ Max. (mV)	I_F (mA)	Ir @ Max. (µA)	Vr (V)	Pinning Configuration	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
60	750	610	750	100	45	Single	SOT-23	ZHCS756CT-ND◆	.87	.66	.44	ZHCS756TR-ND◆	261.00/M
	500	630	500	40	45	Single	SOT-23	ZHCS506CT-ND◆	.69	.52	.35	ZHCS506TR-ND◆	207.00/M

V_R Max. (V)	I_F Max. (mA)	V_F @ Max. (mV)	I_F (mA)	Ir @ Max. (µA)	Vr (V)	Pinning Configuration	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
13.2	400	360	50	10	30	—	SM8	ZXSBMR16PT8CT-ND◆ ***NEW!***	2.70	2.03	1.22	ZXSBMR16PT8TR-ND◆ ***NEW!***	765.00

Switching

V_R Max. (V)	I_F Max. (mA)	V_F @ Max. (mV)	I_F (mA)	Ir @ Max. (µA)	Vr (V)	Pinning Configuration	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Dual													
30	200	500	30	4	25	Com. Cathode Series	SOT-23	BAT54SCT-ND	.12	.10	.07	BAT54STR-ND	25.85/M
ZLLS Series — Low Leakage													
40	2200	370	500	40	30	Single	SOT-23-6	ZLLS2000CT-ND◆	1.08	.81	.49	ZLLS2000TR-ND◆	270.00/M
	1160	460	500	20			SOT-23	ZLLS1000CT-ND◆	.78	.59	.39	ZLLS1000TR-ND◆	234.00/M
	700	530	500	10			SOT-23	ZLLS500CT-ND	.66	.50	.30	ZLLS500TR-ND	165.00/M
	650	450	30	4			SOD-523	ZLLS350TACT-ND◆	.57	.43	.29	ZLLS350TATR-ND◆	171.00/M
	520	500	400	10			SOD-323	ZLLS400TACT-ND	.57	.43	.26	ZLLS400TATR-ND	142.50/M

◆ ***RoHS Compliant***

Zener

Silicon voltage regulator diodes designed for voltage reference and stabilizer applications. Encapsulated in the popular SOT-23 package, these devices are designed specifically for use in thin and thick film hybrid circuits in both industrial and commercial applications. **Specifications:** • Nominal Tolerance: ±5% • Maximum Power Dissipation at Tamb = 25°C: Ptot 350mW • Operating and Storage Temperature Range: -65°C ~ 150°C • Maximum Forward Current: IF 250mA

Zener Voltage Vz at Iz = 5mA Nom.	Min.	Max.	Diff. Resistance rz at Iz = 5mA Max. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Zener Diodes — Silicon Voltage Regulator Diodes — SOT-23 Packaging									
11	10.4	11.6	20	BZX84C11ZXCT-ND	.91	.69	.46	—	—
20	18.8	21.2	55	BZX84C20ZXCT-ND	.91	.69	.46	—	—
36.0	34.0	38.0	90†	BZX84C36ZXCT-ND	.91	.69	.46	—	—
39	37	41	130†	BZX84C39ZXCT-ND	.91	.69	.46	BZX84C39ZXTR-ND	273.60/M
47	44	50	170†	BZX84C47ZXCT-ND	.91	.69	.46	—	—

† Iz at 2mA

MLP832 *NEW!*

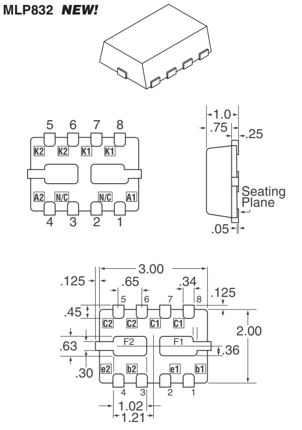

SM8 *NEW!*

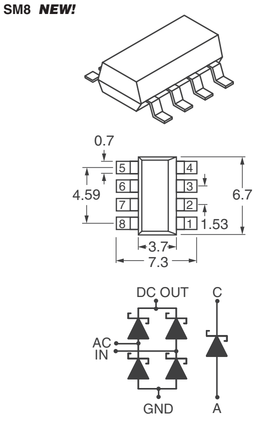

MOSFETs

20 Volts

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	$V_{GS\ (th)}$ (V) Min.	Max.	at I_D (mA)	$R_{DS\ (on)}$ (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
N-Channel																
20	8300	50	0.7	—	0.25	0.020	11000	4.5	1.560	SO-8	ZXMN2A02N8CT-ND◆	2.22	1.67	ZXMN2A02N8TR-ND◆	500	388.50
	6000	27	0.7	—	0.25	0.020	11000	4.5	1.100	MSOP8	ZXMN2A02X8CT-ND◆	2.52	1.89	ZXMN2A02X8TR-ND◆	1,000	714.00
	5400	30	0.7	—	0.25	0.040	3800	4.5	1.100	MSOP8	ZXM64N02XCT-ND◆	2.39	1.80	ZXM64N02XTR-ND◆	1,000	678.30
	4300	26	0.4	1.0	0.25	0.075	3200	1.8	1.1	SOT-23-6	ZXMN2B03E6CT-ND◆	1.38	1.04	ZXMN2B03E6TR-ND◆	3,000	345.00/M
	4100	22.6	0.6	1.5	0.25	0.045	2500	4.5	0.96	SOT-23	ZXMN2F30FHCT-ND◆ ***NEW!***	.50	.38	ZXMN2F30FHTR-ND◆ ***NEW!***	3,000	124.50/M
	4000	19	0.5	1.5	0.25	0.060	2500	4.5	1.35	DFN322	ZXMN2F34MACT-ND◆ ***NEW!***	.63	.48	ZXMN2F34MATR-ND◆ ***NEW!***	3,000	157.50/M
	3600	16	0.7	—	0.25	0.055	7200	4.5	1.100	SOT-23-6	ZXMN2A03E6CT-ND	1.26	.95	ZXMN2A03E6TR-ND	3,000	315.00/M
	3500	21	0.4	1.0	0.25	0.100	2600	1.8	1	SOT23	ZXMN2B14FHCT-ND◆	1.20	.90	ZXMN2B14FHTR-ND◆	3,000	300.00/M
	3400	19	0.7	—	0.25	0.110	2500	2.5	1.000	SOT-23	ZXMN2A14FCT-ND◆	1.08	.81	ZXMN2A14FTR-ND◆	3,000	270.00/M
	3400	18.6	0.5	1.5	0.25	0.060	2500	4.5	0.95	SOT-23	ZXMN2F34FHCT-ND◆ ***NEW!***	.45	.34	ZXMN2F34FHTR-ND◆ ***NEW!***	3,000	112.50/M
	2440	10	0.7	—	0.25	0.120	4000	4.5	1.100	SOT-23-6	ZXMN2A01E6CT-ND	.87	.66	ZXMN2A01E6TR-ND	3,000	217.50/M
	2100	11.8	0.4	1.0	0.25	0.200	1700	1.8	0.625	SOT-23	ZXMN2B01FCT-ND◆	.72	.54	ZXMN2B01FTR-ND◆	3,000	180.00/M
	1900	8	0.7	—	0.25	0.120	4000	4.5	0.625	SOT-23	ZXMN2A01FCT-ND◆	.60	.45	ZXMN2A01FTR-ND◆	3,000	150.00/M
	1700	7.4	0.7	—	0.25	0.180	930	4.5	0.625	SOT-23	ZXM61N02FCT-ND◆	.72	.54	ZXM61N02FTR-ND◆	3,000	240.00/M
Dual — RoHS Compliant																
20	7700	38	1.0	—	0.25	0.025	5900	4.5	2.100	SO-8	ZXMN2A04DN8CT-ND	3.72	2.79	ZXMN2A04DN8TR-ND	500	651.00
	3000	13	0.7	—	0.25	0.120	4000	4.5	1.5	MLP832	ZXMN2AM832CT-ND ***NEW!***	1.50	1.13	ZXMN2AM832TR-ND ***NEW!***	3,000	375.00/M
	2400	19	0.7	—	0.25	0.130	1700	4.5	1.040	MSOP8	ZXMD63N02XCT-ND	3.78	2.84	ZXMD63N02XTR-ND	1,000	1071.00
P-Channel																
-20	-900	-4.9	-0.7	—	0.25	0.6	-610	-4.5	.625	SOT-23	ZXM61P02FCT-ND◆	.72	.54	ZXM61P02FTR-ND◆	3,000	240.00/M
	-2300	-13	-0.7	—	0.25	0.2	-1600	-4.5	1.1	SOT-23-6	ZXM62P02E6CT-ND◆	1.14	.86	ZXM62P02E6TR-ND◆	3,000	285.00/M
	-3500	-19	-0.7	—	0.25	0.09	-2400	-4.5	1.1	MSOP8	ZXM64P02XCT-ND◆	2.56	1.92	ZXM64P02XTR-ND◆	1,000	724.20
	-8000	-28	-0.7	—	0.25	0.025	-3200	-4.5	2.5	SO-8	ZXM66P02N8CT-ND◆	4.50	3.38	ZXM66P02N8TR-ND◆	500	787.50
Dual																
-20	-1700	-9.6	-0.7	—	0.25	0.27	-1200	-4.5	1.040	MSOP8	ZXMD63P02XCT-ND	3.98	2.99	ZXMD63P02XTR-ND	1,000	1127.10
N and P Channel Complementary																
20 -20	2400 -1700	19 -9.6	0.7 -0.7	— —	0.25 -0.25	0.13 -0.27	1700 -1200	4.5 -4.5	1.04 1.04	MSOP8	ZXMD63C02XCT-ND	3.60	2.70	ZXMD63C02XTR-ND	1,000	1020.00

◆ ***RoHS Compliant***

(Continued)

MSOP8

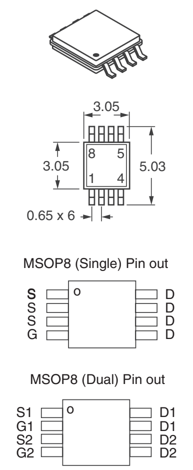

DFN322 *NEW!*

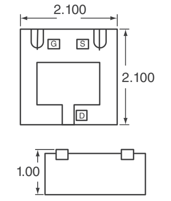

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ZETEX SEMICONDUCTORS MOSFETs *(Cont.)*

30 - 50 Volts

Digi-Reel®

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	$V_{GS(th)}$ (V) Min.	$V_{GS(th)}$ at Max.	$V_{GS(th)}$ I_D (mA)	$R_{DS(on)}$ (Ω) Max. @	$R_{DS(on)}$ I_D (mA)	$R_{DS(on)}$ V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel — RoHS Compliant															
35	13000	30	1.0	—	.250	0.060	3700	10	20	TO-220	ZXM64N035L3-ND	3.12	2.34	1.56	1.04
P-Channel — RoHS Compliant															
-35	-12000	-19	-1.0	—	.250	0.075	2400	10	20	TO-220	ZXM64P035L3-ND	3.48	2.61	1.74	1.16
-45	-230	-3	-1.0	-3.5	1	14	200	-10	0.7	TO-92	BS250P-ND	1.27	.95	.64	.43
-50	-175	-0.52	-0.8	-2.0	1	10	100	-5	0.625	TO-92	ZVP4105A-ND	1.20	.90	.54	.34

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	$V_{GS(th)}$ (V) Min.	$V_{GS(th)}$ at Max.	$V_{GS(th)}$ I_D (mA)	$R_{DS(on)}$ (Ω) Max.@	$R_{DS(on)}$ I_D (mA)	$R_{DS(on)}$ V_{GS} (V)	P_D (W)	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
N-Channel																
30	18400	66	1	—	250	0.03	9800	4.5	10.1	D-PAK	ZXMN3A04KTCCT-ND	3.36	2.52	ZXMN3A04KTCTR-ND	2,500	952.00/M
	7200	45	0.7	—	0.25	0.025	8900	4.5	2.0	SO-8	ZXMN3B04N8CT-ND◆	1.98	1.49	ZXMN3B04N8TR-ND◆	500	346.50
	6700	24	1	—	0.25	0.025	12000	10	1.1	MSOP8	ZXMN3A02X8CT-ND	2.22	1.67	ZXMN3A02X8TR-ND	1,000	629.00
	5300	44	1	—	0.25	0.035	10200	10	2.5	SO-8	ZXMN3A02N8CT-ND	2.46	1.85	ZXMN3A02N8TR-ND	500	430.50
	4700	16	1	—	0.25	0.11	2200	10	2.0	SOT-223	ZXM62N03GCT-ND◆ ***NEW!***	1.26	.95	ZXM62N03GTR-ND◆ ***NEW!***	1,000	357.00
	3800	21	1	3	0.25	0.047	3200	10	0.95	SOT-23	ZXMN3F30FHCT-ND◆ ***NEW!***	.50	.38	ZXMN3F30FHTR-ND◆ ***NEW!***	3,000	124.50/M
	3700	17	1	—	0.25	0.050	7800	10	1.1	SOT-23-6	ZXMN3A03E6CT-ND◆	1.26	.95	ZXMN3A03E6TR-ND◆	3,000	315.00/M
	3500	16	0.7	—	0.25	0.140	2200	2.5	1.0	SOT-23	ZXMN3B14FCT-ND◆	.93	.70	ZXMN3B14FTR-ND◆	3,000	232.50/M
	3200	—	1	—	0.25	0.065	3200	10	1.000	SOT-23	ZXMN3A14FCT-ND◆	.90	.68	ZXMN3A14FTR-ND◆	3,000	225.00/M
	3200	18	1	—	0.25	0.11	2200	10	1.1	SOT-23-6	ZXM62N03E6CT-ND	1.19	.90	—	—	—
	2400	10	1	—	0.25	0.12	2000	10	1.1	SOT-23-6	ZXMN3A01E6CT-ND◆	.87	.66	ZXMN3A01E6TR-ND◆	3,000	217.50/M
	1800	8	1	—	0.25	0.12	2500	10	.625	SOT-23	ZXMN3A01FCT-ND◆	.60	.45	ZXMN3A01FTR-ND◆	3,000	150.00/M
	1400	17	1	—	0.25	0.22	9100	10	1.1	SOT-23	ZXM61N03FCT-ND◆	.72	.54	ZXM61N03FTR-ND◆	3,000	240.00/M
	2.0	9.4	0.7	—	0.25	0.15	1700	4.5	.625	SOT-23	ZXMN3B01FCT-ND◆	.60	.45	ZXMN3B01FTR-ND◆	3,000	170.00/M
40	10900	35.3	1	—	0.25	0.050	.0045	10	4.2	D-PAK	ZXMN4A06KCT-ND◆	2.28	1.71	ZXMN4A06KTR-ND◆	2,500	646.00/M
	5000	22	1	—	0.25	.05	4500	10	2.0	SOT-223	ZXMN4A06GCT-ND◆	2.07	1.56	ZXMN4A06GTR-ND◆	1,000	586.50
50	200	0.8	0.5	1.5	1	3.5	200	5	.360	SOT-23	BSS138ZXCT-ND◆	.29	.22	BSS138ZXTR-ND◆	3,000	60.00/M
Dual — RoHS Compliant																
30	8500	39	1	—	0.25	0.020	12600	10	2.15	SO-8	ZXMN3A04DN8CT-ND	3.36	2.52	ZXMN3A04DN8TR-ND	500	588.00
	6200	30	1	—	0.25	0.035	9000	10	2.1	SO-8	ZXMN3A06DN8CT-ND	1.98	1.49	ZXMN3A06DN8TR-ND	500	330.00
	5700	33	1	3	0.25	0.024	7000	10	1.25	SO-8	ZXMN3F31DN8CT-ND ***NEW!***	1.32	.99	ZXMN3F31DN8TR-ND ***NEW!***	3,000	330.00/M
	5500	33.6	1	3	0.25	0.028	6000	10	1.25	SO-8	ZXMN3G32DN8CT-ND ***NEW!***	1.32	.99	ZXMN3G32DN8TR-ND ***NEW!***	3,000	330.00/M
	3000	13	1	—	0.25	0.12	2500	10	1.5	MLP832	ZXMN3AM832CT-ND ***NEW!***	1.38	1.04	ZXMN3AM832TR-ND ***NEW!***	3,000	345.00/M
	2300	14	1	—	0.25	0.135	1700	10	1.25	MSOP8	ZXMD63N03XCT-ND	3.78	2.84	ZXMD63N03XTR-ND	1,000	1071.00
P-Channel																
-30	-5400	-24.9	-1	—	0.25	.045	4200	-10	2.0	SOT-223	ZXMP3A16GCT-ND◆	1.62	1.22	ZXMP3A16GTR-ND◆	1,000	459.00
	-3200	-14.4	-1	—	0.25	0.07	3200	-10	1.1	SOT-23-6	ZXMP3A17E6CT-ND◆	1.05	.79	ZXMP3A17E6TR-ND◆	3,000	297.50/M
	-5600	-25	-1	—	0.25	0.045	4200	-10	1.9	SO-8	ZXMP3A16N8CT-ND◆	1.56	1.17	ZXMP3A16N8TR-ND◆	500	273.00
	-1100	4.3	1	—	0.25	0.35	600	10	.625	SOT-23	ZXM61P03FCT-ND◆	.72	.54	ZXM61P03FTR-ND◆	3,000	240.00/M
	-2600	13	1	—	0.25	0.15	1600	10	1.1	SOT-23-6	ZXM62P03E6CT-ND◆	1.14	.86	ZXM62P03E6TR-ND◆	3,000	285.00/M
	-1400	-5	1	—	0.25	0.21	1400	10	.625	SOT-23	ZXMP3A13FCT-ND◆	.72	.54	ZXMP3A13FTR-ND◆	3,000	204.00/M
	-3800	19	1	—	0.25	0.075	2400	10	1.1	MSOP8	ZXM64P03XCT-ND	2.64	1.98	ZXM64P03XTR-ND	1,000	748.00
	-7900	-28	-1	—	0.25	0.025	5600	-10	2.5	SO-8	ZXM66P03N8CT-ND◆	4.50	3.38	ZXM66P03N8TR-ND◆	500	787.50
-40	-9900	-35	-1	—	0.25	0.060	3800	10	9.5	D-PAK	ZXMP4A16KTCCT-ND◆	2.16	1.62	ZXMP4A16KTCTR-ND◆	2,500	648.00/M
	-6400	-21	-1	—	0.25	.06	3800	10	3.9	SOT-223	ZXMP4A16GCT-ND	2.07	1.56	ZXMP4A16GTR-ND	1,000	586.50
-45	-90	-1.6	-1	-3.5	1	14	200	-10	.330	SOT-23	BS250FCT-ND	1.02	.77	BS250FTR-ND	3,000	255.00/M
-50	-130	-0.52	-0.8	-2.0	1	10	100	-5	.360	SOT-23	BSS84ZXCT-ND◆	.26	.20	BSS84ZXTR-ND◆	3,000	54.00/M
Dual																
-30	-2000	9.6	1	—	0.25	0.185	1200	10	1.0	MSOP8	ZXMD63P03XCT-ND◆	3.98	2.99	ZXMD63P03XTR-ND◆	1,000	1127.10
	-4400	-16.2	-1	—	0.25	0.070	3200	-10	2.1	SO-8	ZXMP3A17DN8CT-ND◆	1.98	1.49	ZXMP3A17DN8TR-ND◆	500	346.50
	-5500	-20	-1	—	0.25	0.045	4200	-10	2.1	SO-8	ZXMP3A16DN8CT-ND◆	2.16	1.62	ZXMP3A16DN8TR-ND◆	500	378.00
	-4800	-18	-1	—	0.25	0.055	4900	-10	2.0	SO-8	ZXMD65P03N8CT-ND	3.56	2.68	ZXMD65P03N8TR-ND	500	623.70
N and P Channel Complementary — RoHS Compliant																
30 -30	2300 -2000	14 -9.6	1	—	0.25	0.135 -0.185	1700 1200	10 16	1.25	MSOP8	ZXMD63C03XCT-ND	3.59	2.70	ZXMD63C03XTR-ND	1,000	1018.30
30 -30	3700 -2700	12.4 -9.2	1 -0.8	— —	0.25 0.25	.120 -.210	2500 1400	10 10	1.70	MLP832	ZXMC3AM832TACT-ND	1.68	1.26	ZXMC3AM832TATR-ND	3,000	504.00/M
30 -30	5400 4400	23 -20	1 -1	— —	0.25 -0.25	.050 0.070	7800 -3200	10 -10	1.25	SO-8	ZXMC3A17DN8CT-ND ***NEW!***	1.68	1.26	ZXMC3A17DN8TR-ND ***NEW!***	500	294.00
30 -30	6400 -5400	30 -25	1	—	0.25	0.050 -0.070	0.0074 0.0034	4.5 4.5	1.25	SO-8	ZXMC3A16DN8CT-ND	2.40	1.80	—	—	—
30 -30	7600 -6300	37 -30	1 -1	— —	0.25 0.25	0.030 -0.050	5300 -4000	4.5 -4.5	1.8	SO-8	ZXMC3A18DN8CT-ND	3.00	2.25	—	—	—
40 -40	5200 4700	24 -23	1 -1	— —	0.25 -0.25	0.075 0.10	3200 -2900	4.5 -4.5	1.8	SO-8	ZXMC4A16DN8CT-ND ***NEW!***	2.40	1.80	ZXMC4A16DN8TR-ND ***NEW!***	500	420.00

60 Volts

Digi-Reel®

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	$V_{GS(th)}$ V Min.	$V_{GS(th)}$ at Max.	$V_{GS(th)}$ I_D (mA)	$R_{DS(on)}$ (Ω) Max. @	$R_{DS(on)}$ I_D (mA)	$R_{DS(on)}$ V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel — RoHS Compliant															
60	270	3	0.8	2.4	1	5	500	10	0.625	TO-92	ZVN3306A-ND	1.02	.77	.51	.34
	450	8	0.8	2.4	1	2	1000	10	0.7	TO-92	ZVN2106A-ND	1.08	.81	.49	.31
	600	8	1.3	3.0	1	1.5	500	5	0.7	TO-92	ZVN4206A-ND	1.21	.91	.55	.35
	1100	20	1.3	3.0	1	0.45	1500	5	0.85	TO-92	ZVN4306A-ND	2.74	2.06	1.24	.78
	270	3	0.8	3.0	1	5	200	10	0.625	TO-92	BS170P-ND	1.06	.80	.53	.36
	270	3	0.8	2.5	1	7.5	200	5	0.625	TO-92	VN10LP-ND	1.02	.77	.51	.34
P-Channel — RoHS Compliant															
-60	-160	-1.6	-1.5	-3.5	1	14	200	-10	0.625	TO-92	ZVP3306A-ND	.84	.63	.38	.24
	-280	-4	-1.5	-3.5	1	5	500	-10	0.7	TO-92	ZVP2106A-ND	1.26	.95	.57	.36

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	$V_{GS(th)}$ (V) Min.	$V_{GS(th)}$ at Max.	$V_{GS(th)}$ I_D (mA)	$R_{DS(on)}$ (Ω) Max. @	$R_{DS(on)}$ I_D (mA)	$R_{DS(on)}$ V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
N-Channel																
60	11200	40	1	—	.250	0.070	5,600	4.5	10.1	D-PAK	ZXMN6A09KTCCT-ND	3.36	2.52	ZXMN6A09KTCTR-ND	2,500	952.00/M
	1200	1.2	1	3.0	.250	7.5	500	10	.33	SOT-23	2N7002CT-ND◆	.14	.11	2N7002TR-ND◆	3,000	28.20/M
	1200	1.2	1	3.0	.250	0.3	1800	10	.800	SOT-23	ZXMN6A07FCT-ND◆	.72	.54	ZXMN6A07FTR-ND◆	3,000	180.00/M
	3800	5.6	1	—	0.25	0.250	3800	4.5	3.9	SOT-223	ZXMN6A11GCT-ND◆	1.26	.95	ZXMN6A11GTR-ND◆	1,000	357.00

◆ *RoHS Compliant*

(Continued)

SM-8

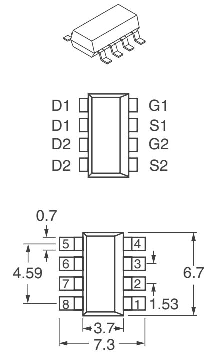

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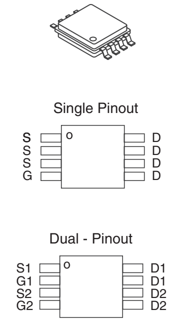

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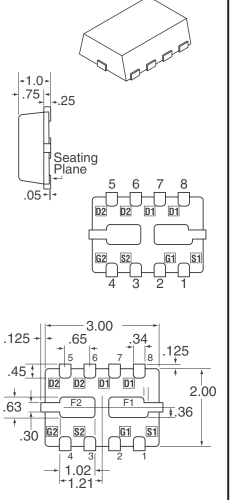

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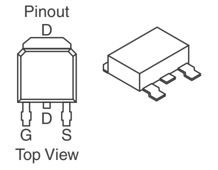

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ZETEX SEMICONDUCTORS

MOSFETs

60 Volts *(Cont.)*

Digi-Reel®

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	V_{GS} (th) at Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
60	3100	4	1	—	0.25	0.100	4800	10	1.7	SOT-23-6	ZXMN6A08E6CT-ND◆	1.26	.95	ZXMN6A08E6TR-ND◆	3,000	315.00/M
	2200	6.8	1	3.0	0.25	0.30	1800	10	2.6	SOT-89	ZXMN6A07ZCT-ND◆	.87	.66	ZXMN6A07ZTR-ND◆	1,000	246.50
	6900	30.6	1	—	0.25	0.045	8200	10	3.9	SOT-223	ZXMN6A09GCT-ND◆	2.07	1.56	ZXMN6A09GTR-ND◆	1,000	586.50
	3200	12.3	1	—	0.25	0.14	4400	10	2.6	SOT-89	ZXMN6A11ZCT-ND◆	1.00	.76	ZXMN6A11ZTR-ND◆	1,000	283.90
	200	3	1.3	3	1	2.5	500	10	.330	SOT-23	ZVN4106FCT-ND◆	1.02	.77	ZVN4106FTR-ND◆	3,000	255.00/M
	710	8.0	0.8	2.4	1.0	2.0	1.0	10	2.0	SOT-223	ZVN2106GCT-ND◆	1.32	.99	ZVN2106GTR-ND◆	1,000	374.00
	1000	8.0	1.3	3.0	1.0	1.0	1.5	10	2.0	SOT-223	ZVN4206GCT-ND◆	1.62	1.22	ZVN4206GTR-ND◆	1,000	459.00
	2100	15	1.3	3	1.0	0.33	3000	10	3.0	SOT-223	ZVN4306GCT-ND◆	2.40	1.80	ZVN4306GTR-ND◆	1,000	680.00
	1600	3	—	—	—	0.675	700	—	2.5	SOT-223	BSP75GCT-ND◆	2.03	1.53	BSP75GTR-ND◆	1,000	676.00
	270	3	0.8	2.5	1	5	500	10	.625	E-Line (T0-92)	VN10LPSTOACT-ND◆ ***NEW!***	1.02	.77	VN10LPSTOATR-ND◆ ***NEW!***	2,000	289.00/M
	150	3	0.8	3	1	5	200	10	.330	SOT-23	BS170FCT-ND◆	1.02	.77	BS170FTR-ND◆	3,000	255.00/M
	150	3	0.8	2.5	1	7.5	200	5	.330	SOT-23	VN10LFCT-ND◆	.69	.52	VN10LFTR-ND◆	3,000	172.50/M
	150	3	0.8	2.4	1	5	500	10	.330	SOT-23	ZVN3306FCT-ND◆	.93	.70	ZVN3306FTR-ND◆	3,000	232.50/M
	4.8	28.5	1.0	—	0.25	0.05	3600	10	2.0	SOT-223	ZXMN6A25GCT-ND◆	1.80	1.35	ZXMN6A25GTR-ND◆	1,000	510.00
	11200	36	1.0	3.0	0.25	0.05	3600	10	10	D-PAK	ZXMN6A25KCT-ND◆	1.98	1.49	ZXMN6A25KTR-ND◆	2,500	561.00/M
	—	1.2	1	—	—	675	700	5	1.5	SOT-223	BSP75NCT-ND◆	1.80	1.35	BSP75NTR-ND◆	1,000	600.00
	3.1	4.0	1	—	—	0.08	4800	10	—	SOT-23-6	ZXMN6A08GCT-ND◆	1.11	.84	ZXMN6A08GTR-ND◆	3,000	333.00/M
	1400	—	1	—	1	675	700	5	2.5	SOT-223	ZXMS6002GCT-ND◆	2.40	1.80	ZXMS6002GTR-ND◆	1,000	800.00
	1400	—	1	—	1	675	200	5	2.5	SOT-223	ZXMS6003GCT-ND◆	2.70	2.03	ZXMS6003GTR-ND◆	3,000	675.00/M
Dual																
60	5100	25	1	—	0.25	0.045	8200	10	2.1	SO-8	ZXMN6A09DN8CT-ND◆	3.60	2.70	ZXMN6A09DN8TR-ND◆	500	630.00
	2700	8.3	1	—	0.25	0.140	4400	10	2.1	SO-8	ZXMN6A11DN8CT-ND◆	1.80	1.35	ZXMN6A11DN8TR-ND◆	500	315.00
	4700	22	1	—	0.25	0.055	3600	10	2.1	SO-8	ZXMN6A25DN8CT-ND◆	2.58	1.94	ZXMN6A25DN8TR-ND◆	500	285.95
	2000	15	1.3	3	1	0.33	3000	10	2.5	SM-8	ZDM4306NCT-ND	3.48	2.61	ZDM4306NTR-ND	1,000	986.00
P-Channel — RoHS Compliant																
-60	-10400	-37.5	-1.0	—	0.25	0.055	3500	-10	10.1	D-PAK	ZXMP6A18KTCCT-ND	3.42	2.57	ZXMP6A18KTCTR-ND	2,500	1026.00/M
	-4100	-13.7	-1.0	—	.250	0.125	2200	-10	2.0	SOT-223	ZXMP6A17GCT-ND	1.05	.79	ZXMP6A17GTR-ND	1,000	297.50
	-3000	-13.6	-1.0	—	.250	0.125	2300	-10	1.7	SOT-23-6	ZXMP6A17E6CT-ND	1.05	.79	ZXMP6A17E6TR-ND	3,000	262.50/M
	-1100	-4	-1.0	—	.250	0.4	900	-10	.806	SOT-23	ZXMP6A13FCT-ND	.63	.48	ZXMP6A13FTR-ND	3,000	157.50/M
	-90	-1.6	-1.5	-3.5	1	14	200	-10	.330	SOT-23	ZVP3306FCT-ND	1.11	.84	ZVP3306FTR-ND	3,000	277.50/M
	-450	-4.0	-1.5	-3.5	1.0	5.0	500	-10	2.0	SOT-223	ZVP2106GCT-ND	1.80	1.35	ZVP2106GTR-ND	1,000	510.00
Dual																
-60	-4800	-23.8	-1	—	.250	0.055	3500	-10	2.1	SO-8	ZXMP6A18DN8CT-ND◆	3.30	2.48	ZXMP6A18DN8TR-ND◆	500	577.50
	-3900	-10.3	-1	—	.250	0.085	2900	-10	2.1	SO-8	ZXMP6A16DN8CT-ND	2.16	1.62	ZXMP6A16DN8TR-ND	500	378.00
	-3200	-14.2	-1	—	.250	0.125	2300	-10	2.1	SO-8	ZXMP6A17DN8CT-ND	1.73	1.30	ZXMP6A17DN8TR-ND	500	302.40
N and P Channel Complementary — RoHS Compliant																
60 -60	5100 -4800	25.0 -23.0	1 -1	— —	.250 .250	0.450 0.550	8200 3500	10 10	2.1	SO-8	ZXMC6A09DN8TACT-ND	3.60	2.70	ZXMC6A09DN8TATR-ND	500	630.00
60 -60	4700 -3900	22.2 -18.3	1 -1	— —	.250 .250	0.055 0.085	4500 2900	10 10	2.1	SO-8	ZXMC4559DN8CT-ND ***NEW!***	3.00	2.25	ZXMC4559DN8TR-ND ***NEW!***	500	525.00

70 Volts

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	V_{GS} (th) at Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max.@	R_{DS} (on) I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
N-Channel — RoHS Compliant																
70	3.8	10	1.0	—	0.250	0.13	4400	10	3.9	SOT-223	ZXMN7A11GCT-ND	1.26	.95	ZXMN7A11GTR-ND	1,000	420.00
	6.1	17	1.0	—	0.250	0.13	4,400	10	8.5	D-PAK	ZXMN7A11KCT-ND	1.35	1.02	ZXMN7A11KTR-ND	2,500	405.00/M
P-Channel — RoHS Compliant																
-70	-3.7	-9.6	-1.0	—	-0.250	0.16	-2100	-10	3.9	SOT-223	ZXMP7A17GCT-ND	1.32	.99	ZXMP7A17GTR-ND	1,000	440.00
	-5.7	-17.7	-1.0	—	-0.250	0.16	-2100	-10	8.5	D-PAK	ZXMP7A17KCT-ND	1.38	1.04	ZXMP7A17KTR-ND	2,500	414.00/M

100 Volts

Digi-Reel®

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) V Min.	V_{GS} (th) at Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	Loose Piece Price Each 10	Loose Piece Price Each 100	Loose Piece Price Each 1,000
N-Channel — RoHS Compliant															
100	320	6	0.75	1.5	1	4.5	250	5	0.7	TO-92	ZVNL110A-ND	1.10	.83	.50	.32
	320	6	0.8	2.4	1	4	1,000	10	0.7	TO-92	ZVN2110A-ND	1.08	.81	.49	.31
	200	2	0.8	2.4	1	10	500	10	0.625	TO-92	ZVN3310A-ND	1.02	.77	.51	.34
	450	6	0.8	2.4	1	1.8	500	5	0.7	TO-92	ZVN4210A-ND	1.26	.95	.57	.36
	900	12	1.0	3.0	1	0.65	1,500	5	0.85	TO-92	ZVN4310A-ND	2.74	2.06	1.24	.78
P-Channel — RoHS Compliant															
-100	-230	-3	-1.5	-3.5	1	8	375	-10	0.7	TO-92	ZVP2110A-ND	1.26	.95	.57	.36
	-140	-1.2	-1.5	-3.5	1	20	150	-10	0.625	TO-92	ZVP3310A-ND	1.05	.79	.48	.30

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	V_{GS} (th) at Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	V_{GS} (V)	P_D (W)	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
N-Channel																
100	7700	27	2.0	4.0	0.25	0.100	0.0042	6	10.1	D-PAK	ZXMN10A09KCT-ND	3.30	2.48	ZXMN10A09KTR-ND	2,500	935.00/M
	2000	11	2.0	—	0.25	0.25	3200	10	2	SOT-223	ZXMN10A08GCT-ND◆	.96	.72	ZXMN10A08GTR-ND◆	1,000	272.00
	2400	9.9	2.0	4.0	0.25	0.35	2600	10	4	D-PAK	ZXMN10A11KCT-ND◆	1.32	.99	ZXMN10A11KTR-ND◆	2,500	374.00/M
	2900	17	2.0	4.0	0.25	0.125	2900	10	2	SOT-223	ZXMN10A25GCT-ND◆	1.80	1.35	ZXMN10A25GTR-ND◆	1,000	510.00
	4200	21	2.0	4.0	0.25	0.125	2900	10	4.2	D-PAK	ZXMN10A25KCT-ND◆	1.98	1.49	ZXMN10A25KTR-ND◆	2,500	561.00/M
	600	6.0	0.75	1.5	1.0	4.5	250	5	2.0	SOT-223	ZVNL110GCT-ND◆	1.62	1.22	ZVNL110GTR-ND◆	1,000	459.00
	1500	8.6	2	4	0.25	0.25	3200	10	1.7	SOT-23-6	ZXMN10A08E6CT-ND◆	1.00	.76	ZXMN10A08E6TR-ND◆	3,000	250.50/M
	1900	9	1	3	0.25	0.30	1400	4.5	1.7	SOT-23-6	ZXMN10B08E6CT-ND◆	1.00	.76	ZXMN10B08E6TR-ND◆	3,000	250.50/M
	500	6.0	0.8	2.4	1.0	4.0	1.0	10	2.0	SOT-223	ZVN2110GCT-ND◆	1.50	1.13	ZVN2110GTR-ND◆	1,000	425.00
	100	2	0.8	2.4	1	10	500	10	.330	SOT-23	ZVN3310FCT-ND◆	.93	.70	ZVN3310FTR-ND◆	3,000	232.50/M
	800	6	0.8	2.4	1	1.8	500	5	2.0	SOT-223	ZVN4210GCT-ND◆ ***NEW!***	1.62	1.22	ZVN4210GTR-ND◆ ***NEW!***	1,000	459.00
	1670	12	1.0	3.0	1.0	0.54	3.3	10	3.0	SOT-223	ZVN4310GCT-ND	2.40	1.80	ZVN4310GTR-ND	1,000	680.00
	170	0.68	0.8	2.8	1	6	100	10	.360	SOT-23	BSS123CT-ND◆	.20	.16	BSS123TR-ND◆	3,000	42.08/M
	170	0.68	0.8	2.8	1	6	100	10	.360	SOT-23	BSS123ACT-ND◆	.54	.41	BSS123ATR-ND◆	3,000	135.00/M
	800	3.5	2	4	0.25	0.7	1500	10	.62	SOT-23	ZXMN10A07FCT-ND◆	.66	.50	ZXMN10A07FTR-ND◆	3,000	165.00/M
	1400	4.2	2	4	0.25	0.70	1500	10	2.6	SOT-89	ZXMN10A07ZCT-ND	.78	.59	ZXMN10A07ZTR-ND	1,000	221.00
	1600	9.0	2	—	0.25	0.25	3200	10	1.25	SO-8	ZXMN10A08DN8TACT-ND◆	1.80	1.35	ZXMN10A08DN8TATR-ND◆	500	315.00
	1800	5.8	2	4	0.25	0.6	2600	10	3.9	SOT-223	ZXMN10A11GCT-ND◆	1.26	.95	ZXMN10A11GTR-ND◆	1,000	357.00
P-Channel — RoHS Compliant																
-100	-3700	-16.5	-2	-4.0	0.25	0.150	2800	-10	3.9	SOT-223	ZXMP10A18GCT-ND	3.18	2.39	ZXMP10A18GTR-ND	1,000	901.00
	-1600	-7.7	-2	-4.0	0.25	0.35	1400	-10	1.7	SOT-23-6	ZXMP10A17E6CT-ND	1.32	.99	ZXMP10A17E6TR-ND	3,000	330.00/M

◆ *RoHS Compliant*

(Continued)

SOT-23

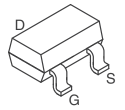

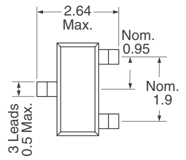

SOT-23-6

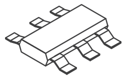

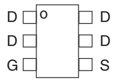

SOT-89

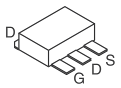

SOT-223

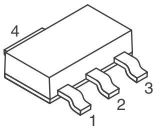

1 Gate
2 Drain
3 Source
4 Drain

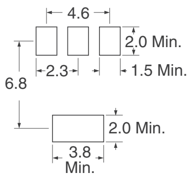

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MOSFETs

100 Volts *(Cont.)*

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	$V_{GS (th)}$ (V) Min.	$V_{GS (th)}$ Max.	at I_D (mA)	$R_{DS (on)}$ (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
-100	3800	-21.1	-2	-4.0	-0.25	0.15	2800	-10	4.3	D-PAK	ZXMP10A18KCT-ND	2.40	1.80	—	—	—
	-700	-3.1	-2	-4.0	0.25	1	600	-10	.800	SOT-23	ZXMP10A13FCT-ND	.66	.50	ZXMP10A13FTR-ND	3,000	165.00/M
	-75	-1.2	-1.5	-3.5	1	20	150	-10	.330	SOT-23	ZVP3310FCT-ND	1.11	.84	ZVP3310FTR-ND	3,000	277.50/M
	-310	-3.0	-1.5	-3.5	1	8.0	0.375	-10	2.0	SOT-223	ZVP2110GCT-ND	1.80	1.35	ZVP2110GTR-ND	1,000	510.00
	-1400	-7.7	-2.0	-4.0	-0.25	0.45	1200	-6	1.1	SOT-223	ZXMP10A17GCT-ND ***NEW!***	1.20	.90	ZXMP10A17GTR-ND ***NEW!***	1,000	340.00
	3800	-21.1	-2.0	-4.0	-0.25	0.190	2400	-6	4.3	D-PAK	ZXMP10A18KTCCT-ND	2.40	1.80	ZXMP10A18KTCTR-ND	2,500	600.00/M

200 - 450 Volts

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	$V_{GS (th)}$ V Min.	$V_{GS (th)}$ at Max.	I_D (mA)	$R_{DS (on)}$ (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel — RoHS Compliant															
200	180	2	0.5	1.5	1	10	125	3	0.7	TO-92	ZVNL120A-ND	1.02	.77	.46	.29
200	120	2	—	—	—	23	25	2.6	0.5	TO-92	BS107P-ND	1.19	.90	.54	.34
200	100	1	1.0	3.0	1	25	100	10	0.625	TO-92	ZVN3320A-ND	1.02	.77	.51	.34
240	260	1	0.8	1.8	1	6	100	2.5	0.75	TO-92	ZVN4424A-ND	1.68	1.26	.76	.48
400	90	0.6	1.0	3.0	1	50	100	10	0.7	TO-92	ZVN0540A-ND	1.97	1.48	.99	.66
450	90	0.6	1.0	3.0	1	50	100	10	0.7	TO-92	ZVN0545A-ND	2.76	2.07	1.25	.79
P-Channel — RoHS Compliant															
-200	-120	-1.2	-1.5	-4.5	1	25	150	-10	0.7	TO-92	ZVP2120A-ND	1.26	.95	.57	.36
-240	-200	-1	-0.8	-2.5	1	15	100	-3.5	0.75	TO-92	ZVP4424A-ND	1.74	1.31	.79	.50
-450	-45	-0.4	-1.5	-4.5	1	150	50	-10	0.7	TO-92	ZVP0545A-ND	2.76	2.07	1.25	.79

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	$V_{GS (th)}$ (V) Min.	$V_{GS (th)}$ at Max.	I_D (mA)	$R_{DS (on)}$ (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
N-Channel																
200	60	1.0	1.0	3.0	1.0	25	100	10	0.300	SOT-23	ZVN3320FCT-ND◆	.93	.70	ZVN3320FTR-ND◆	3,000	232.50/M
	320	2.0	1.0	3.0	1.0	10	0.25	10	2.0	SOT-223	ZVN2120GCT-ND◆	1.50	1.13	ZVN2120GTR-ND◆	1,000	425.00
	320	2.0	0.5	1.5	1.0	10	0.125	3.0	2.0	SOT-223	ZVNL120GCT-ND◆	1.62	1.22	ZVNL120GTR-ND◆	1,000	459.00
240	500	1.5	0.8	1.8	1.0	6.0	0.10	2.5	2.5	SOT-223	ZVN4424GCT-ND◆	1.89	1.42	ZVN4424GTR-ND◆	1,000	535.50
	300	1.0	0.8	1.8	1.0	6.0	100	2.5	1.0	SOT-89	ZVN4424ZCT-ND◆	1.23	.93	ZVN4424ZTR-ND◆	1,000	348.50
250	230	1.44	0.8	1.8	1.0	9.50	20	2.4	1.1	SOT-23-6	ZVN4525E6CT-ND◆	1.38	1.04	ZVN4525E6TR-ND◆	3,000	345.00/M
	240	1.44	0.8	1.8	1.0	9.50	20	2.4	2.1	SOT-89	ZVN4525ZCT-ND◆	1.32	.99	ZVN4525ZTR-ND◆	1,000	374.00
	310	1.44	0.8	1.8	1.0	9.0	310	4.5	2.0	SOT-223	ZVN4525GCT-ND◆	1.38	1.04	ZVN4525GTR-ND◆	1,000	391.00
450	140	0.6	1.0	3.0	1.0	50	100	10	2.0	SOT-223	ZXMN0545G4CT-ND◆	1.89	1.42	ZXMN0545G4TR-ND◆	1,000	630.00
	140	0.6	1.0	3.0	1.0	50	0.10	10	2.0	SOT-223	ZVN0545GCT-ND	1.32	.99	ZVN0545GTR-ND	1,000	374.00
P-Channel — RoHS Compliant																
-200	-200	-1.2	-1.5	-3.5	-1.0	25	-150	-10	2.0	SOT-223	ZVP2120GCT-ND ***NEW!***	1.08	.81	ZVP2120GTR-ND ***NEW!***	1,000	306.00
	-200	-1.2	-1.5	-3.5	1.0	25	150	-10	2.0	SOT-223	ZXMP2120G4CT-ND	1.38	1.04	ZXMP2120G4TR-ND	1,000	460.00
	-122	-1.2	-1.5	-3.5	1.0	28	150	-10	0.75	SOT-23-5	ZXMP2120E5CT-ND	1.08	.81	ZXMP2120E5TR-ND	3,000	324.00/M
	-35	0.4	-1.5	-3.5	1.0	80	50	-10	0.33	SOT-23	ZVP1320FCT-ND	.72	.54	ZVP1320FTR-ND	3,000	204.00/M
-240	-480	-1.0	-0.7	-2.0	1.0	11	100	-3.5	2.5	SOT-223	ZVP4424GCT-ND	1.91	1.44	ZVP4424GTR-ND	1,000	540.60
-250	-197	-1.0	-0.8	-2.0	0.25	18	100	-3.5	1.1	SOT-23-6	ZVP4525E6CT-ND	1.38	1.04	ZVP4525E6TR-ND	3,000	345.00/M
	-265	-1.0	-0.8	-2.0	1.0	18	0.10	-3.5	2.0	SOT-223	ZVP4525GCT-ND	1.05	.79	ZVP4525GTR-ND	1,000	297.50
	-205	-1.0	-0.8	-2.0	1.0	18	100	-3.5	2.1	SOT-89	ZVP4525ZCT-ND	1.38	1.04	ZVP4525ZTR-ND	1,000	391.00
-450	-75	-0.4	-1.5	-4.5	1.0	150	0.05	-10	2.0	SOT-223	ZVP0545GCT-ND	1.32	.99	ZVP0545GTR-ND	1,000	374.00

Avalanche

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	$V_{GS (th)}$ V Min.	$V_{GS (th)}$ at Max.	I_D (mA)	$R_{DS (on)}$ (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel — RoHS Compliant															
60	600	8	1.3	3	1	1.5	500	5	0.7	TO-92	ZVN4206AV-ND	1.14	.86	.52	.33
	1100	20	1.3	3	1	0.45	1500	5	1.1	TO-92	ZVN4306AV-ND	2.74	2.06	1.24	.78

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	$V_{GS (th)}$ (V) Min.	$V_{GS (th)}$ at Max.	I_D (mA)	$R_{DS (on)}$ (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing
N-Channel — RoHS Compliant																
200	60	1	1	3	1	25	100	10	.300	SOT-23	ZVN3320FCT-ND	.93	.70	ZVN3320FTR-ND	3,000	232.50/M
60	1000	8.0	1.3	3.0	1.0	1.0	1.5	10	2.0	SOT-223	ZVN4206GVCT-ND	1.92	1.44	ZVN4206GVTR-ND	1,000	544.00
	2100	20	1.3	3.0	1.0	0.33	3.0	10	3.0	SOT-223	ZVN4306GVCT-ND	2.64	1.98	ZVN4306GVTR-ND	1,000	748.00

◆ ***RoHS Compliant***

TO-92 (E-Line)

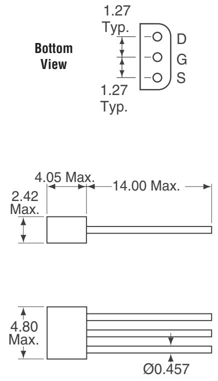

TO-220

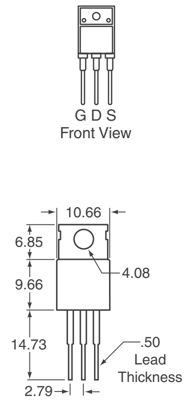

SOT-23-5

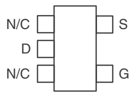

Voltage Supply Monitors

Typical Vcc (V)	Threshold Voltage (V)	Typical Hysteresis (mV)	Maximum Output Sink Current (mA)	Input Voltage Range (V)	Maximum Quiescent Current (µA)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
3	2.63	20	60	1 ~ 6.5	200	TO-92	ZSM300C-ND	1.62	1.22	.73	.46
	2.68	20	60	1 ~ 10	190	TO-92	ZM331643C-ND	1.55	1.17	.70	.44
	3.1	20	50	-1 ~ 10	180	TO-92	ZSH330C-ND	1.62	1.22	.73	.46

Typical Vcc (V)	Thresh-hold Voltage (V)	Typical Hysteresis (mV)	Maximum Output Sink Current (mA)	Input Voltage Range (V)	Maximum Quiescent Current (µA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
3	2.68	20	60	1 ~ 10	190	SO-8	ZM331643N8CT-ND	1.89	1.42	.86	—	—	—
	2.63	20	60	1 ~ 6.5	200	SO-8	ZSM300N8CT-ND	3.02	2.27	1.37	ZSM300N8TR-ND	500	529.20
	2.68	20	60	1 ~ 10	190	SOT-223	ZM331643GCT-ND	2.05	1.54	.93	ZM331643GTR-ND	1,000	579.70
	2.63	20	60	1 ~ 6.5	200	SOT-223	ZSM300GCT-ND	2.80	2.10	1.26	—	—	—
3.3	3.1	20	50	-1 ~ 10	180	SO-8	ZSH330N8CT-ND	3.16	2.38	1.43	ZSH330N8TR-ND	500	553.35
	3.1	20	50	-1 ~ 10	180	SOT-223	ZSH330GCT-ND	2.42	1.82	1.09	ZSH330GTR-ND	1,000	685.10
5	4.6	20	60	1 ~ 6.5	200	SO-8	ZSM560N8CT-ND	3.02	2.27	1.37	ZSM560N8TR-ND	500	529.20
	4.6	20	50	-1 ~ 10	180	SO-8	ZSH560N8CT-ND	3.16	2.38	1.43	ZSH560N8TR-ND	500	553.35
	4.6	20	60	1 ~ 6.5	200	SOT-223	ZM33064GCT-ND◆	1.61	1.21	.73	ZM33064GTR-ND◆	1,000	455.60
	4.6	20	60	1 ~ 6.5	200	SOT-223	ZSM560GCT-ND	2.30	1.73	1.04	ZSM560GTR-ND	1,000	652.80

◆ ***RoHS Compliant***

SO-8
Top View

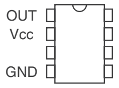

SOT-223
Top View

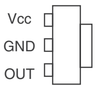

TO-92
Bottom View

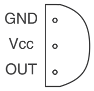

ZETEX SEMICONDUCTORS Regulators

Low Dropout

V Out (V)	Dropout Voltage (mV)	I Maximum (mA)	Shutdown Current (µA)	Max. Load Regulation (mV)	Max. Line Regulation (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000
ZLDO Series - Ultra Low												
3.3 4.85 5	35	300	11	52 69 70	78 119 123	SM-8	ZLDO330T8CT-ND◆ ZLDO485T8CT-ND◆ ZLDO500T8CT-ND	3.00 3.00 3.00	2.25 2.25 2.25	1.35 1.35 1.35	ZLDO330T8TR-ND◆ ZLDO485T8TR-ND◆ ZLDO500T8TR-ND	850.00 850.00 850.00

V Out (V)	Dropout (mV)@IL = 50mA	Maximum Load I (mA)	Shutdown I (µA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
ZXCL Series - Very Small Micropower										
2.50	85	100	0.01	SC-70 SC70-5 SOT23-5	ZXCL250H5TACT-ND ZXCL5213V25H5CT-ND◆ ZXCL250E5TACT-ND	1.02 1.02 1.02	.77 .77 .77	.46 .46 .46	ZXCL250H5TATR-ND ZXCL5213V25H5TR-ND◆ ZXCL250E5TATR-ND	255.00/M 255.00/M 255.00/M
2.60	85	150	1	SC-70 SOT23-5	ZXCL260H5CT-ND ZXCL260E5CT-ND	1.02 .66	.77 .50	.46 .30	ZXCL260H5TR-ND ZXCL260E5TR-ND	255.00/M 165.00/M
2.80	85	150	1	SC-70 SOT23-5 SC70-5	ZXCL280H5CT-ND ZXCL280E5CT-ND◆ ZXCL5213V28H5CT-ND◆	1.02 1.02 1.02	.77 .77 .77	.46 .46 .51	ZXCL280H5TR-ND ZXCL280E5TR-ND◆ ZXCL5213V28H5TR-ND◆	255.00/M 255.00/M 255.00/M
3.00	85	150	0.01	SC-70 SC70-5 SOT23-5	ZXCL300H5CT-ND ZXCL5213V30H5CT-ND◆ ZXCL300E5CT-ND◆	1.02 1.02 1.04	.77 .77 .79	.46 .46 .47	ZXCL300H5TR-ND ZXCL5213V30H5TR-ND◆ ZXCL300E5TR-ND◆	255.00/M 255.00/M 261.00/M
3.30	85	150	0.01	SC-70 SC70-5 SOT23-5	ZXCL330H5CT-ND◆ ZXCL5213V33H5CT-ND◆ ZXCL330E5CT-ND◆	1.02 1.02 1.02	.77 .77 .77	.46 .46 .46	ZXCL330H5TR-ND◆ ZXCL5213V33H5TR-ND◆ ZXCL330E5TR-ND◆	255.00/M 255.00/M 255.00/M

Voltage

Digi-Reel®

Output Voltage	Maximum Output Current (mA)	Maximum Quiescent Current (µA)	Typical Dropout Voltage	Max. Line Reg. (mV)	Max. Load Reg. (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
ZMR Series - Miniature — RoHS Compliant												
2.5	50	40	1.7	15	30	SOT-23 TO-92	ZMR250FCT-ND ZMR250C-ND†	1.47 1.41	1.11 1.06	.67 .64	ZMR250FTR-ND —	367.50/M —
3.3	50	170	1.7	10	50	SOT-23	ZMR330FCT-ND	1.47	1.11	.67	ZMR330FTR-ND	367.50/M
5.0	50	70	1.7	15	40	SOT-23 TO-92	ZMR500FCT-ND ZMR500C-ND†	1.47 1.41	1.11 1.06	.67 .64	ZMR500FTR-ND —	367.50/M —

Output Voltage	Maximum Output Current (mA)	Ptot (W)	Max. Line Regulation (mV)	Max. Load Regulation (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
ZSR Series - Fixed												
2.85	200	0.78	40	25	SO-8	ZSR285N8CT-ND	3.02	2.27	1.37	ZSR285N8TR-ND	500	529.20
3.0	200	0.2	40	25	SOT-223	ZSR300GCT-ND◆	1.80	1.35	.90	ZSR300GTR-ND◆	1,000	600.00
3.3	200	2.0	30	25	SOT-223	ZSR330GCT-ND◆	1.80	1.35	.81	ZSR330GTR-ND◆	1,000	510.00
4.0 4.85 4.85	200 200 200	0.78 2.78 0.78	40 40 40	25 25 25	SO-8 SOT-223 SO-8	ZSR400N8CT-ND ZSR485GTACT-ND ZSR485N8CT-ND	3.02 1.80 3.02	2.27 1.35 2.27	1.37 .81 1.37	ZSR400N8TR-ND ZSR485GTATR-ND ZSR485N8TR-ND	500 2,000 500	529.20 510.00/M 529.20
5.0 5.2 5.7	200 200 200	2.0 0.78 0.78	40 40 40	25 25 30	SOT-223 SO-8 SO-8	ZSR500GCT-ND◆ ZSR520N8CT-ND ZSR570N8CT-ND	1.80 3.02 3.02	1.35 2.27 2.27	.81 1.37 1.37	ZSR500GTR-ND◆ ZSR520N8TR-ND ZSR570N8TR-ND	1,000 500 500	510.00 529.20 529.20
6.0	200 200	2.0 0.78	40 40	30 30	SOT-223 SO-8	ZSR600GCT-ND ZSR600N8CT-ND	1.81 3.02	1.36 2.27	.82 1.37	— ZSR600N8TR-ND	— 500	— 529.20
7.0	200	0.78	40	25	SO-8	ZSR700N8CT-ND	3.02	2.27	1.37	ZSR700N8TR-ND	500	529.20
10.0	200 200	2.0 0.78	40 40	30 30	SOT-223 SO-8	ZSR1000GCT-ND ZSR1000N8CT-ND	1.80 3.02	1.35 2.27	.81 1.37	ZSR1000GTR-ND —	1,000 —	510.00 —
12.0	200	0.2	40	30	SOT-223	ZSR1200GCT-ND◆	2.40	1.80	1.20	ZSR1200GTR-ND◆	1,000	800.00

Output Voltage	Maximum Output Current (mA)	Ptot (W)	Maximum Line Regulation (mV)	Maximum Load Regulation (mV)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
ZR78L Series, Local										
8.5	200	0.6	40	30	TO-92	ZR78L085C-ND	1.08	.81	.49	.31

Output Voltage	Maximum Output Current (mA)	Ptot (W)	Max. Line Regulation (mV)	Max. Load Regulation (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000
ZR78L Series, Local											
2.85 6.0	200 200	2 2	40 40	25 30	SOT-223 SOT-223	ZR78L028GCT-ND ZR78L06GCT-ND	1.61 1.61	1.21 1.21	.73 .73	ZR78L028GTR-ND —	455.60 —

◆ *RoHS Compliant* † Bulk

(Continued)

Low Dropout Regulators

SC70/ SC70-5

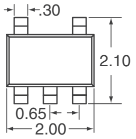

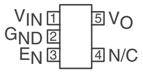

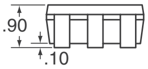

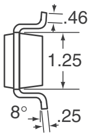

SM-8

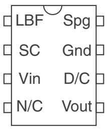

SOT23-5

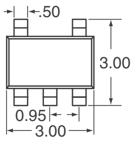

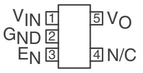

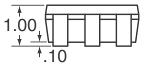

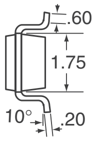

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Regulators

Voltage *(Cont.)*

Output Voltage (V)	Max. Output Current (mA)	Ptot (W)	Max. Line Regulation (mV)	Max. Load Regulation (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing
							1	10	100		1,000
ZR78L Series, Local											
10.0	200	2	40	30	SOT-223	ZR78L10GCT-ND	1.61	1.21	.73	ZR78L10GTR-ND	455.60

Shunt Voltage References

Reference Voltage	Output Voltage		Minimum Operating Current (µA)	Tolerance (%)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each		
	Min.	Maximum					1	10	100
ZR431 Series - Programmable									
1.24	1.24	10	30	1	TO-92	ZR431LC01-ND	1.38	1.04	.63
	1.24	10	30	2.5	TO-92	ZR431LC02L-ND	1.36	1.02	.62
2.5	2.5	20	50	2	TO-92	ZR431C-ND◆	1.08	.81	.49

Reference Voltage	Minimum Operating Current (µA)	Tolerance (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
					1	10	100		Qty.	Pricing
LM Series — RoHS Compliant										
2.5	60	0.5	SOT-23	LM4040C25FCT-ND	1.30	.98	.59	LM4040C25FTR-ND	3,000	324.00/M
	65	1		LM4040D25FCT-ND	1.12	.84	.51	LM4040D25FTR-ND	3,000	279.00/M
5.0	74	0.5	SOT-23	LM4040C50FCT-ND	1.30	.98	.59	LM4040C50FTR-ND	3,000	324.00/M
	79	1		LM4040D50FCT-ND	1.12	.84	.51	LM4040D50FTR-ND	3,000	279.00/M
1.225	60	0.5	SOT-23	LM4041CFCT-ND	1.30	.98	.59	LM4041CFTR-ND	3,000	324.00/M
	65	1		LM4041DFCT-ND	1.12	.84	.51	LM4041DFTR-ND	3,000	279.00/M

Reference Voltage	Output Voltage		Minimum Operating Current (µA)	Tol. (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
	Min.	Max.					1	10	100		Qty.	Pricing
ZR and ZTL Series - Programmable												
1.24	1.24	15	30	1	SOT-23	ZR2431F01CT-ND	1.74	1.31	.79	ZR2431F01TR-ND	3,000	435.00/M
	1.24	15	30	2.5	SOT-23	ZR2431F02CT-ND	1.32	.99	.60	ZR2431F02TR-ND	3,000	330.00/M
	1.24	15	30	1	SO-8	ZR2431N801CT-ND	2.79	2.10	1.26	ZR2431N801TR-ND	500	488.25
	1.24	15	30	2.5	SO-8	ZR2431N802CT-ND	2.61	1.96	1.18	ZR2431N802TR-ND	500	456.75
	1.24	10	30	1	SOT-23	ZR431LF01CT-ND◆	1.50	1.13	.68	ZR431LF01TR-ND◆	3,000	375.00/M
	1.24	10	30	2.5	SOT-23	ZR431LF02CT-ND◆	1.14	.86	.52	ZR431LF02TR-ND◆	3,000	285.00/M
	1.24	10	30	1	SOT-23	ZTLV431AFCT-ND◆	.90	.68	.45	ZTLV431AFTR-ND◆	3,000	270.00/M
2.5	2.5	20	50	2	SOT-23	ZR431FCT-ND◆	.90	.68	.41	ZR431FTR-ND◆	3,000	225.00/M
	2.5	20	50	0.5	SOT-23	ZR431F005TACT-ND◆	1.59	1.20	.72	ZR431F005TATR-ND◆	3,000	397.50/M
	2.5	20	50	1	SOT-23	ZR431F01CT-ND◆	1.14	.86	.52	ZR431F01TR-ND◆	3,000	285.00/M
	2.5	20	50	1	SOT-23	ZTL431AFCT-ND◆	.30	.23	.15	ZTL431AFTR-ND◆	3,000	90.00/M
	2.5	20	50	0.5	TO-92	ZTL431BCSCT-ND◆	.90	.68	.45	—	—	—
	2.5	20	50	1	SOT23-5	ZTL431AE5CT-ND◆ ***NEW!***	.48	.36	.22	ZTL431AE5TR-ND◆ ***NEW!***	3,000	120.00/M
	2.5	20	50	0.5	SOT23-5	ZTL431BE5CT-ND◆ ***NEW!***	.72	.54	.33	ZTL431BE5TR-ND◆ ***NEW!***	3,000	180.00/M
	2.5	20	0.5	1	SOT-23F	ZTL431AFFCT-ND◆	.30	.23	.14	ZTL431AFFTR-ND◆	3,000	75.00/M
	2.5	20	50	0.5	SOT-23	ZTL431BFCT-ND◆	.48	.36	.24	ZTL431BFTR-ND◆	3,000	144.00/M
	2.5	20	50	1	SOT-23	ZTL432AFCT-ND◆	.30	.23	.15	ZTL432AFTR-ND◆	3,000	90.00/M
	2.5	20	50	0.5	SOT-23	ZTL432BFCT-ND◆	.48	.36	.24	ZTL432BFTR-ND◆	3,000	144.00/M
	2.5	20	0.5	1	SOT-23F	ZTL432AFFCT-ND◆	.30	.23	.14	ZTL432AFFTR-ND◆	3,000	75.00/M

V_O (V)	DVref (mV)		Iref (mA)		Slope Resistance		Trim Range	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing
	Typ.	Max.	Min.	Max.	Typ.	Max.				1	25	100		1,000
ZRT Trimmable														
2.5	2.7	8.8	0.15	75	0.85	2	5.0%	SOT-223	ZRT025GC1CT-ND	1.97	1.41	1.13	ZRT025GC1TR-ND	705.00
4.0	4.2	14.0	0.15	75	1.1	3	5.0%	SOT-223	ZRT040GC1CT-ND◆	1.97	1.41	1.13	ZRT040GC1TR-ND◆	705.00
5.0	5.4	17.2	0.15	60	1.25	2	5.0%	SOT-223	ZRT050GC1CT-ND◆	1.97	1.41	1.13	ZRT050GC1TR-ND◆	705.00
6.17	6.5	22.0	0.15	50	1.4	3	5.0%	SOT-223	ZRT062GC1CT-ND	2.38	1.70	1.36	ZRT062GC1TR-ND	850.00
9.8	10.8	34.4	0.15	30	1.8	4	2.5%	SOT-223	ZRT100GC1CT-ND	9.45	6.75	5.40	ZRT100GC1TR-ND	705.00

Reverse Breakdown Voltage	Minimum Current (µA)	Maximum Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ω)	Tolerance (%)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each			
								1	25	100	1,000
ZR Series - Fixed, Precision Micropower											
2.5	20	5	90	1.0	3	E-Line	ZRC250A03-ND◆	1.00	.72	.43	.36
	20	5	90	1.0	3	E-Line	ZRC250R03-ND	1.00	.72	.43	.36
	50	20	90	2	1	TO-92	ZR40401R25-ND	1.35	.97	.59	.49
5.0	25	5	90	2.0	2	TO-92	ZRC500A02-ND	1.33	.95	.57	.48

Reverse Breakdown Voltage	Min. Current (µA)	Max. Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ω)	Tol. (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
								1	25	100		Qty.	Pricing
ZR Series - Fixed, Precision Micropower													
2.5	2000	120	50	0.5	3	SOT-23	ZRA245F03CT-ND	.95	.68	.55	ZRA245F03TR-ND	3,000	340.00/M
	2000	120	50	0.5	1	SO-8	ZRA245N801CT-ND	1.56	1.12	.89	—	—	—
	2000	120	50	0.5	3	SO-8	ZRA245N803CT-ND	1.25	.90	.72	ZRA245N803TR-ND	500	238.07
	20	5	90	1	1	SOT-23	ZRC250F01CT-ND	1.28	.92	.74	ZRC250F01TR-ND	3,000	458.75/M

◆ ***RoHS Compliant*** † Bulk

(Continued)

Voltage Regulators

Miniature

SOT-23
Top View

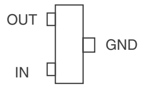

TO-92
Bottom View

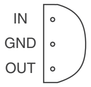

Fixed/Local

SO-8
Top View

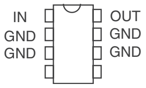

SOT-223
Top View

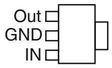

TO-92
Bottom View

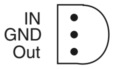

Shunt Voltage References

Programmable

SO-8
Top View

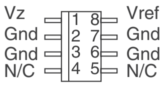

SOT-23
Top View

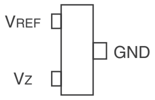

SOT23-5
Top View

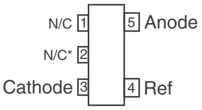

* must be left floating
or connected to pin 5

TO-92
Bottom View

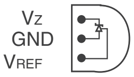

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Regulators

Shunt Voltage References *(Cont.)*

Reverse Breakdown Voltage	Min. Current (µA)	Max. Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ω)	Tol. (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
ZR Series - Fixed, Precision Micropower													
2.5	20	5	90	1	2	SOT-23	ZRC250F02CT-ND◆	1.04	.74	.60	ZRC250F02TR-ND◆	3,000	370.00/M
	20	5	90	1	3	SOT-23	ZRC250F03CT-ND◆	.95	.68	.54	ZRC250F03TR-ND◆	3,000	337.50/M
	20	5	90	1.0	3	SO-8	ZRC250N803CT-ND	1.25	.90	.72	ZRC250N803TR-ND	500	238.07
	20	20	90	1	2	SOT-23	ZR285F02CT-ND◆	1.77	1.27	1.02	ZR285F02TR-ND◆	3,000	632.50/M
	20	20	90	1	3	SOT-23	ZR285F03CT-ND	1.55	1.11	.89	—	—	—
	20	20	90	1.0	2	SO-8	ZR285N802CT-ND	1.87	1.34	1.07	ZR285N802TR-ND	500	355.11
	20	20	90	1.0	3	SO-8	ZR285N803CT-ND	1.82	1.30	1.04	ZR285N803TR-ND	500	345.14
	25	60	30	0.4	0.5	SOT-23	ZR404005F25TACT-ND	1.12	.80	.64	ZR404005F25TATR-ND	3,000	400.00/M
	50	20	90	2	1	SOT-23	ZR40401F25CT-ND◆	1.28	.92	.74	ZR40401F25TR-ND◆	3,000	458.75/M
	50	20	90	2	2	SOT-23	ZR40402F25CT-ND	.63	.45	.36	ZR40402F25TR-ND	3,000	225.00/M
	50	20	90	2.0	2	SO-8	ZR40402N825CT-ND	1.35	.97	.78	ZR40402N825TR-ND	500	257.36
3.3	20	5	50	2	1	SOT-23	ZRC330F01CT-ND◆	1.28	.92	.74	ZRC330F01TR-ND◆	3,000	550.50/M
	20	5	50	2	2	SOT-23	ZRC330F02CT-ND	1.04	.74	.60	ZRC330F02TR-ND	3,000	370.00/M
	20	5	50	2	3	SOT-23	ZRC330F03CT-ND	.95	.68	.54	ZRC330F03TR-ND	3,000	337.50/M
	20	5	50	2.0	1	SO-8	ZRC330N801CT-ND	1.56	1.12	.89	ZRC330N801TR-ND	500	295.93
	20	5	50	2.0	3	SO-8	ZRC330N803CT-ND	1.25	.90	.72	ZRC330N803TR-ND	500	238.07
4.096	50	20	90	2	1	SOT-23	ZR40401F41CT-ND◆	1.28	.92	.74	ZR40401F41TR-ND◆	3,000	458.75/M
	50	20	90	2	2	SOT-23	ZR40402F41CT-ND	.63	.45	.36	ZR40402F41TR-ND	3,000	225.00/M
5.0	50	15	50	1.5	1	SOT-23	ZRB500F01CT-ND◆	1.28	.92	.74	ZRB500F01TR-ND◆	3,000	458.75/M
	50	15	50	1.5	2	SOT-23	ZRB500F02CT-ND	1.04	.74	.60	ZRB500F02TR-ND	3,000	370.00/M
	50	15	50	1.5	3	SOT-23	ZRB500F03CT-ND	.95	.68	.54	ZRB500F03TR-ND	3,000	337.50/M
	50	15	50	1.5	3	SO-8	ZRB500N803CT-ND	1.25	.90	.72	ZRB500N803TR-ND	500	238.07
	50	20	90	1.5	1	SOT-23	ZR40401F50CT-ND◆	1.28	.92	.74	ZR40401F50TR-ND◆	3,000	458.75/M
	50	20	90	1.5	2	SOT-23	ZR40402F50CT-ND◆	.63	.45	.36	ZR40402F50TR-ND◆	3,000	225.00/M
	50	20	90	1.5	2	SO-8	ZR40402N850CT-ND	1.35	.97	.78	ZR40402N850TR-ND	500	257.36

Reverse Breakdown Voltage	Minimum Current (µA)	Maximum Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ω)	Tolerance (%)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	25	100	1,000
ZXRE Series - Very Low Quiescent Current Precision											
1.22	8	20	75	0.5	1	TO-92	ZXRE1004DR-ND	2.50	1.79	1.08	.90
1.225	30	12	75	0.5	1	TO-92	ZXRE4041DR-ND	1.35	.97	.59	.49

Reverse Breakdown Voltage	Min. Current (µA)	Max. Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ω)	Tol. (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
ZXRE Series - Very Low Quiescent Current Precision													
1.22	8	20	75	0.5	0.5	SOT-23	ZXRE1004CFCT-ND	2.13	1.52	1.22	ZXRE1004CFTR-ND	3,000	760.00/M
	8	20	75	0.5	1	SOT-23	ZXRE1004DFCT-ND◆	1.23	.88	.70	ZXRE1004DFTR-ND◆	3,000	437.50/M
	8	20	75	0.5	1	SO-8	ZXRE1004DN8CT-ND	2.50	1.79	1.43	ZXRE1004DN8TR-ND	500	474.81
	8	20	75	0.5	2	SOT-23	ZXRE1004EFCT-ND◆	1.04	.74	.60	ZXRE1004EFTR-ND◆	3,000	370.00/M
	8	20	75	0.5	2	SO-8	ZXRE1004EN8CT-ND	2.13	1.53	1.22	ZXRE1004EN8TR-ND	500	404.99
	4	20	75	0.6	3	SOT-23	ZXRE1004FFCT-ND◆	.95	.68	.54	ZXRE1004FFTR-ND◆	3,000	337.50/M
	8	20	75	0.5	3	SO-8	ZXRE1004FN8CT-ND	1.97	1.41	1.13	ZXRE1004FN8TR-ND	500	375.06
	30	5	90	0.5	0.5	SOT-23	ZXRE125CFCT-ND◆	1.96	1.40	1.12	ZXRE125CFTR-ND◆	3,000	700.00/M
	30	5	90	0.5	1	SOT-23	ZXRE125DFCT-ND	1.28	.92	.74	ZXRE125DFTR-ND	3,000	458.75/M
	30	5	90	0.5	1	SO-8	ZXRE125DN8CT-ND	1.56	1.12	.89	—	—	—
	30	5	90	0.5	2	SOT-23	ZXRE125EFCT-ND◆	1.04	.74	.60	ZXRE125EFTR-ND◆	3,000	370.00/M
	30	5	90	0.5	2	SO-8	ZXRE125EN8CT-ND	1.35	.97	.78	ZXRE125EN8TR-ND	500	257.36
	30	5	90	0.5	3	SOT-23	ZXRE125FFCT-ND◆	.95	.68	.54	ZXRE125FFTR-ND◆	3,000	337.50/M
	30	5	90	0.5	3	SO-8	ZXRE125FN8CT-ND	1.00	.72	.58	ZXRE125FN8TR-ND	500	190.19
1.225	30	12	75	0.5	0.5	SOT-23	ZXRE4041CFCT-ND	1.12	.80	.64	ZXRE4041CFTR-ND	3,000	400.00/M
	30	12	75	0.5	1	SOT-23	ZXRE4041DFCT-ND	.88	.63	.50	ZXRE4041DFTR-ND	3,000	312.50/M
	30	12	75	0.5	1	SO-8	ZXRE4041DN8CT-ND	1.56	1.12	.89	ZXRE4041DN8TR-ND	500	295.93
	30	12	75	0.5	2	SOT-23	ZXRE4041EFCT-ND	.63	.45	.36	ZXRE4041EFTR-ND	3,000	225.00/M
	30	12	75	0.5	2	SO-8	ZXRE4041EN8CT-ND	1.35	.97	.78	ZXRE4041EN8TR-ND	500	257.36
	30	12	75	0.5	3	SO-8	ZXRE4041FN8CT-ND	1.25	.90	.72	ZXRE4041FN8TR-ND	500	238.07

◆ ***RoHS Compliant*** † Bulk

Shunt Voltage References

Trimmable

SOT-223
Top View

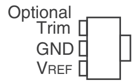

Micropower

SO-8
Top View

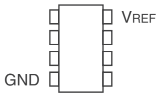

SOT-23
Top View

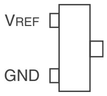

E-Line – TO-92
Bottom View

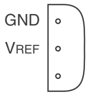

Pkg. Suffix R

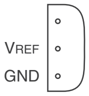

Pkg. Suffix A

ZETEX SEMICONDUCTORS

Specialized Integrated Circuits

Zetex provides high value, system level solutions based on a unique portfolio of integrated, discrete and combination analog products.

Lighting ICs

Zetex is a leading provider of driving solutions for power LED drive applications which include display screens, architectural, automotive, luminaire, safety and security. The Zetex range of dedicated LED boost and buck driver ICs are recognized for their high efficiency, cost effectiveness and incredible versatility.

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
			1	25	100		Qty.	Pricing
Boost Converter for LCD Bias	10-MSOP	ZXLB1600X10TACT-ND◆	1.71	1.47	1.35	ZXLB1600X10TATR-ND◆	1,000	831.30
Boost Converter LED Driver with Switch	SC70-6	ZXLD1100H6CT-ND◆	1.75	1.51	1.38	ZXLD1100H6TR-ND◆	3,000	751.50/M
Boost Converter LED Driver with Switch	TSOT23-5	ZXLD1101ET5CT-ND	1.44	1.23	1.13	ZXLD1101ET5TR-ND	3,000	615.00/M
Boost Converter LED Driver with Switch	TSOT23-5	ZXLD1937ET5CT-ND◆	1.44	1.03	.82	ZXLD1937ET5TR-ND◆	3,000	697.00/M
Boost Converter Adjustable DC/DC with Switch	SC70-6	ZXLD1601H6CT-ND◆	1.75	1.26	1.01	ZXLD1601H6TR-ND◆	3,000	851.70/M
Boost Converter, 1 Cell	MSOP-8	ZXSC100X8CT-ND	1.97	1.70	1.56	—	—	—
Boost Converter, 1 Cell LED	SOT23-5	ZXSC300E5CT-ND◆	.78	.68	.62	ZXSC300E5TR-ND◆	3,000	403.20/M
Boost Converter, 1 Cell LED	SOT23-5	ZXSC310CT-ND◆	.88	.81	.70	ZXSC310TR-ND◆	3,000	378.00/M
Evaluation Board for ZXSC310E5TA (ZXSC310CT-ND)	—	ZXSC310EV-ND‡	100.00	—	—	—	—	—
Single or Multi Cell LED Driver Solution	SOT-23	ZXSC380FHCT-ND◆ ***NEW!***	.70	.50	.40	ZXSC380FHTR-ND◆ ***NEW!***	3,000	300.00/M
Boost Converter LED Driver with Shutdown	SOT23-6	ZXSC400E6TACT-ND◆	.95	.82	.75	ZXSC400E6TATR-ND◆	3,000	406.50/M
Adjustable DC/DC Boost Converter with Internal Switch	TSOT23-5	ZXLD1615ET5CT-ND	2.46	1.85	1.23	ZXLD1615ET5TR-ND	3,000	738.00/M
Adjustable DC/DC Boost Converter with Internal Switch	DFN-14	ZXLD1321DCACT-ND◆ ***NEW!***	4.80	3.60	2.16	ZXLD1321DCATR-ND◆ ***NEW!***	3,000	1200.00/M
Adjustable DC/DC Buck Converter with Internal Switch	DFN-14	ZXLD1320DCACT-ND◆ ***NEW!***	4.68	3.51	2.11	ZXLD1320DCATR-ND◆ ***NEW!***	3,000	1170.00/M
Adjustable DC/DC Buck/Boost Converter w/ Internal Switch	DFN-14	ZXLD1322DCCCT-ND◆ ***NEW!***	4.92	3.69	2.22	ZXLD1322DCCTR-ND◆ ***NEW!***	3,000	1230.00/M
LED Driver with Switch, 350mA	TSOT23-5	ZXLD1350ET5CT-ND◆	3.33	2.50	1.67	ZXLD1350ET5TR-ND◆	3,000	738.00/M
LED Driver with Internal Switch, 1A	TSOT23-5	ZXLD1360ET5CT-ND◆	5.40	4.05	2.70	ZXLD1360ET5TR-ND◆	3,000	1620.00/M
LED Driver with Internal Switch, 1A	TSOT23-5	ZXLD1362ET5CT-ND◆ ***NEW!***	5.70	4.28	2.85	ZXLD1362ET5TR-ND◆ ***NEW!***	3,000	1710.00/M
Camera Flash Charger - Photoflash Charger	MSOP-8	ZXSC440X8CT-ND◆ ***NEW!***	1.75	1.25	1.00	ZXSC440X8TR-ND◆ ***NEW!***	1,000	850.00

◆ ***RoHS Compliant*** ‡ Bulk Pricing

Current and Sense Monitors

The ZXCT range of high side current monitors and current sense amplifiers provides elegant design solutions for current measurement and power control. **ZXCT1009:** This current sensing monitor takes a high side voltage developed across a current shunt resistor and translates it into a scaled ground referenced current. **ZXCT1010:** Offers reduced typical offset and improved accuracy at low sense voltages. **ZXCT1021/1022:** These current sense amplifiers are particularly suited to low sense voltage applications.

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
			1	25	100		Qty.	Pricing
High-Side Current Monitor	SOT-23	ZXCT1009FCT-ND◆	.91	.78	.72	ZXCT1009FTR-ND◆	3,000	390.00/M
High-Side Current Monitor	SOT-23	ZXCT1008FCT-ND◆	.98	.70	.56	ZXCT1008FTR-ND◆	3,000	378.00/M
High-Side Current Monitor	SM-8	ZXCT1009T8CT-ND◆	1.46	1.25	1.15	ZXCT1009T8TR-ND◆	1,000	707.20
High-Side Current Monitor	SOT23-5	ZXCT1011E5CT-ND◆	2.06	1.55	.93	ZXCT1011E5TR-ND◆	3,000	516.00/M
Current Monitor	SOT23-5	ZXCT1010CT-ND◆	1.20	1.11	.95	ZXCT1010TR-ND◆	3,000	619.20/M
High-Side Current Monitor	SOT23-5	ZXCT1021E5TACT-ND◆	2.28	1.71	1.14	ZXCT1021E5TATR-ND◆	3,000	684.00/M
High-Side Current Monitor	SOT23-5	ZXCT1022E5TACT-ND◆	2.28	1.71	1.14	ZXCT1022E5TATR-ND◆	3,000	684.00/M
High-Side Current Monitor with Comparator	SO-8	ZXCT1030N8CT-ND◆ ***NEW!***	1.58	1.24	1.13	ZXCT1030N8TR-ND◆ ***NEW!***	500	472.50
High-Side Inrush Controller and Electronic Fuse	SO-8	ZXCT1032N8CT-ND◆ ***NEW!***	1.75	1.38	1.25	ZXCT1032N8TR-ND◆ ***NEW!***	500	525.00
Current Sensor AC/DC 5A	SM-8	ZMC05TACT-ND	8.05	6.90	6.33	ZMC05TATR-ND	1,000	3910.00
Double Current Sensor using Magnetic Sensing 10A	14-DIL	ZMC10D-ND†	20.40	15.30	9.18	—	—	—
Precision Wide Input Range Current Monitor	SOT23-5	ZXCT1050E5CT-ND◆ ***NEW!***	1.33	.95	.76	ZXCT1050E5TR-ND◆ ***NEW!***	3,000	570.00/M
Wide Input Range Current Monitor	SOT23-5	ZXCT1051E5CT-ND◆	1.33	1.14	1.05	ZXCT1051E5TR-ND◆	3,000	646.00/M
Bidirectional Precision High-Side Current Monitor	SOT23-5	ZXCT1041E5CT-ND◆	2.76	2.07	1.38	ZXCT1041E5TR-ND◆	3,000	828.00/M
High Voltage High-Side Current Monitor	SOT23-5	ZXCT1080E5CT-ND◆ ***NEW!***	1.66	1.19	.95	ZXCT1080E5TR-ND◆ ***NEW!***	3,000	709.50/M
High Voltage High-Side Current Monitor	SOT23-5	ZXCT1081E5CT-ND◆	2.58	1.94	1.29	ZXCT1081E5TR-ND◆	3,000	774.00/M
Reduced Height Micro-Power Current Monitor	TDFN-5	ZXCT1012DAACT-ND◆	2.28	1.71	1.03	ZXCT1012DAATR-ND◆	3,000	570.00/M
Reduced Height Micro-Power Current Monitor	TSOT23-5	ZXCT1012ET5CT-ND◆	2.28	1.71	1.03	ZXCT1012ET5TR-ND◆	3,000	570.00/M

◆ ***RoHS Compliant*** † Tube Pricing

Analog Video Products

The Zetex range of video solutions has been expanded by the addition of a sync separator and a DC restore amplifier. **ZXFV4583:** Separates out the embedded sync information from PAL, NTSC, SECAM and other analog video signals. **ZXFV4089:** Uses a sync pulse (typically from a sync separator) to restore the video black level to the correct DC voltage. The high speed amplifiers/buffers include quad and single amplifiers plus multi-channel unity-gain buffers. **ZXFV202:** Single video amplifier is available in SOT23 and SO8 offering superb differential gain and phase performance of 0.01%/0.01° respectively. **ZXFV301N16/ ZXFV302N16:** 4:1 multiplexers are for use in video and other high speed applications. With greater versatility, they have different channel selection plus an output enable.

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
			1	25	100		Qty.	Pricing
Hi-Performance Sync Separator	16-SOIC	ZXFV4583N16CT-ND◆	9.19	7.88	7.22	—	—	—
Dual Video Amplifiers	8-SOIC	ZXFV204N8CT-ND	5.68	4.26	2.84	—	—	—
Video DC Restore Amplifier	8-SOIC	ZXFV4089N8CT-ND◆	3.85	3.30	3.03	ZXFV4089N8TR-ND◆	500	1100.00
4:1 Channel G1 Video Multiplexer - 4 Pin Control	16-SOIC	ZXFV301N16CT-ND	3.94	3.38	3.10	ZXFV301N16TR-ND	500	1181.25
4:1 Channel G1 Video Multiplexer - 2 Bit Control	16-SOIC	ZXFV302N16TACT-ND	2.80	2.40	2.20	—	—	—
1 Channel 300MHz CFB Amplifier	SOT23-5	ZXFV202E5CT-ND	1.40	1.20	1.10	ZXFV202E5TR-ND	3,000	600.00/M
1 Channel 300MHz CFB Amplifier	8-SOIC	ZXFV202N8TACT-ND	2.07	1.78	1.63	ZXFV202N8TATR-ND	500	620.55
4 Channel 300MHz CFB Amplifier	14-SOIC	ZXFV201N14CT-ND	4.14	3.55	3.26	—	—	—
4 Channel Buffer	14-SOIC	ZXFBF04N14CT-ND	3.31	2.84	2.60	ZXFBF04N14TR-ND	500	992.25
4 Channel High Capacitance Buffer	14-SOIC	ZXFBF05N14CT-ND	3.31	2.84	2.60	ZXFBF05N14TR-ND	500	992.25
8 Channel Buffer	20-SOIC(W)	ZXFBF08W20CT-ND	5.25	4.50	4.13	ZXFBF08W20TR-ND	1,000	2550.00
Triple Amplifier Video	14-SOIC	ZXFV203N14CT-ND	2.80	2.40	2.20	ZXFV203N14TR-ND	500	840.00
Evaluation Board for ZXFV103Q16CT	—	ZXF103EV-ND‡	31.20	—	—	—	—	—
Variable Q Notch/Bandpass Filter	24-SOIC(W)	ZXF36L01W24-ND‡	13.37	10.79	7.50	—	—	—
Evaluation Board for ZXF36L01W24	—	ZXF36L01-EVB-ND‡	24.00	—	—	—	—	—
Evaluation Board for ZXFV4583/ ZXFV4089	—	ZXFV4583EV-ND‡	135.00	—	—	—	—	—
Evaluation Board for ZXFV302	—	ZXFV302EV-ND‡	90.00	—	—	—	—	—
Evaluation Board for ZXFV203	—	ZXFV203EV-ND‡	270.00	—	—	—	—	—
Evaluation Board for ZXFV202	—	ZXFV202N8EV-ND‡	90.00	—	—	—	—	—
Evaluation Board for ZXFV201, Quad Video Amplifier	—	ZXFV201EV-ND‡	90.00	—	—	—	—	—

◆ ***RoHS Compliant*** ‡ Bulk Pricing

(Continued)

ZETEX SEMICONDUCTORS Specialized Integrated Circuits *(Cont.)*

DC - DC Controllers

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	25	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
Evaluation Board for ZXSC100	—	ZXSC100-EVAL-ND‡	50.00	—	—	—	—	—	—
Boost Converter, 1 Cell	8-SOIC	ZXSC100N8CT-ND	2.51	—	2.16	1.98	ZXSC100N8TR-ND	500	752.85
Boost Converter	SOT23-6	ZXSC410E6TACT-ND	1.40	—	1.20	1.10	ZXSC410E6TATR-ND	3,000	600.00/M
Boost Converter	SOT23-6	ZXSC420E6TACT-ND	1.40	—	1.20	1.10	ZXSC420E6TATR-ND	3,000	600.00/M
Switched Capacitor DC to DC Converter	SOT23-6	ZXCP330E6TACT-ND	1.97	—	1.70	1.56	—	—	—
Adjustable PWM DC/DC Controller	16-QSOP	ZXRD100ANQ16CT-ND	4.28	—	3.22	1.93	ZXRD100ANQ16TR-ND	500	474.81
Adjustable PWM DC/DC Controller	16-QSOP	ZXRD100APQ16CT-ND	4.28	—	3.22	1.93	ZXRD100APQ16TR-ND	500	474.81
3.3V PWM DC/DC Controller	16-QSOP	ZXRD1033NQ16CT-ND	4.28	—	3.22	1.93	ZXRD1033NQ16TR-ND	500	474.81
3.3V PWM DC/DC Controller	16-QSOP	ZXRD1033PQ16CT-ND	4.28	—	3.22	1.93	ZXRD1033PQ16TR-ND	500	474.81
5.0V PWM DC/DC Controller	16-QSOP	ZXRD1050NQ16CT-ND	4.28	—	3.22	1.93	ZXRD1050NQ16TR-ND	500	474.81
5.0V PWM DC/DC Controller	16-QSOP	ZXRD1050PQ16CT-ND	4.28	—	3.22	1.93	ZXRD1050PQ16TR-ND	500	474.81
MOSFET/IGBT Gate Driver, 9A (peak)	SOT23-6	ZXGD3001E6CT-ND◆ ***NEW!***	1.20	.90	—	.54	ZXGD3001E6TR-ND◆ ***NEW!***	3,000	300.00/M
MOSFET/IGBT Gate Driver, 9A (peak)	SOT23-6	ZXGD3002E6CT-ND◆ ***NEW!***	1.20	.90	—	.54	ZXGD3002E6TR-ND◆ ***NEW!***	3,000	300.00/M
MOSFET/IGBT Gate Driver, 5A (peak)	SOT23-6	ZXGD3003E6CT-ND◆ ***NEW!***	.93	.70	—	.42	ZXGD3003E6TR-ND◆ ***NEW!***	3,000	232.50/M
MOSFET/IGBT Gate Driver, 8A (peak)	SOT23-6	ZXGD3004E6CT-ND◆ ***NEW!***	1.20	.90	—	.54	ZXGD3004E6TR-ND◆ ***NEW!***	3,000	300.00/M

‡ Bulk Pricing ◆ ***RoHS Compliant***

Special Function ICs

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
Precision Single Cell Timer	8-DIP	ZSCT1555D8-ND†	3.47	2.61	1.57	—	—	—
Precision Single Cell Timer	8-SOIC	ZSCT1555N8CT-ND◆	2.03	1.74	1.60	ZSCT1555N8TR-ND◆	500	609.00
Complementary 60V Enhancement Mode Mosfet H-Bridge	SM-8	ZXMHC6A07T8CT-ND◆	1.93	1.65	1.52	ZXMHC6A07T8TR-ND◆	1,000	935.00
Complementary 100V Enhancement Mode Mosfet H-Bridge	SM-8	ZXMHC10A07T8CT-ND◆	3.30	2.48	1.49	ZXMHC10A07T8TR-ND◆	1,000	935.00
Angle Sensor	SM-8	ZMT31CT-ND◆	12.00	9.00	6.00	ZMT31TR-ND◆	1,000	3400.00
Temperature Sensor	SOT-23	ZNI1000CT-ND◆	4.15	3.11	2.08	ZNI1000TR-ND◆	3,000	1036.50/M

† Tube Pricing ◆ ***RoHS Compliant***

Switching Audio Amplifier Solutions

Zetex brings together vast device design expertise with advanced product capability and many years of audio systems design to create innovative audio solutions which meet all of these needs: • Exceptional sound quality • A smaller space • Less power • Affordable price

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
50W Class D Evaluation Board	—	ZXCD50STEVAL-ND‡	232.75	—	—	—	—	—
24-Bit, Audio Stereo Amp	28-SSOP	ZXCW6100S28CT-ND	11.90	10.20	9.35	ZXCW6100S28TR-ND	1,500	5780.00/M
32-Bit, Digital Amplifier Controller IC	28-SSOP	ZXCW8100S28CT-ND	17.06	14.63	13.41	ZXCW8100S28TR-ND	1,500	8287.50/M
24-Bit, Stereo Direct Drive Digital Audio Amplifier	28-SSOP	ZXCW6100S28TCCT-ND	13.13	11.25	10.32	ZXCW6100S28TCTR-ND	1,500	6375.00/M

‡ Bulk Pricing

Motor and Fan Controllers

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
Brushless Fan Motor Controller with Rotor Lock and Speed Pulse	10-MSOP	ZXBM2001X10TACT-ND	1.36	1.17	1.07	ZXBM2001X10TATR-ND	1,000	659.60
Brushless Fan Motor Controller with Rotor Lock	10-MSOP	ZXBM2002X10TACT-ND	1.48	1.27	1.17	ZXBM2002X10TATR-ND	1,000	717.40
Brushless Fan Motor Controller with Speed Pulse	10-MSOP	ZXBM2003X10TACT-ND	1.41	1.21	1.11	ZXBM2003X10TATR-ND	1,000	683.40
Brushless H-Bridge Motor Controller Single-Phase with Variable Speed	20-TSSOP	ZXBM1015ST20CT-ND◆	3.44	2.58	1.55	ZXBM1015ST20TR-ND◆	2,500	974.10/M
Variable Speed, Single-Phase DC Brushless Motor Controller	16-QSOP	ZXBM1004Q16CT-ND	3.54	2.66	1.77	ZXBM1004Q16TR-ND	500	619.50
Variable Speed 2-Phase DC Brushless Motor Controller	16-QSOP	ZXBM2004Q16TCCT-ND◆	2.43	1.83	1.22	ZXBM2004Q16TCTR-ND◆	2,500	688.50/M
Variable Speed, Single-Phase DC Brushless Motor Controller	20-TSSOP	ZXBM1017ST20CT-ND◆	3.44	2.58	1.72	ZXBM1017ST20TR-ND◆	2,500	974.10/M

◆ ***RoHS Compliant***

Magnetic Field Sensors

Extremely sensitive magnetic sensors utilizing the magneto-resistive properties of thin film permalloy. They are also incorporated into a range of low insertion loss and high isolation current sensors.

Features:

• ZMZ20 – E-Line 4-pin and ZMY20 – SOT-223 packages • ZMY20M and ZMZ20M with internal magnet • ZMX40M with dual sensor • Output voltage proportional to magnetic field Hy • Measures fields parallel to the chip

Applications:

• Linear position measurement • Angular position measurement • Navigation (electronic compass) • Revolution measurement

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
Magnetic Field Sensor with Internal Magnet	SOT-223	ZMY20MTACT-ND	4.90	4.20	3.85	ZMY20MTATR-ND	1,000	2380.00
Magnetic Field Sensor without Internal Magnet	SOT-223S	ZMY20TACT-ND	3.15	2.70	2.48	ZMY20TATR-ND	1,000	1530.00
Magnetic Field Sensor 4 Pin	E-Line 4	ZMZ20-ND‡	9.00	6.75	4.05	—	—	—
Magnetic Field Sensor with Internal Magnet 4 Pin	E-Line 4	ZMZ20M-ND‡	9.60	7.20	4.32	—	—	—
Dual Magnetic Field Sensor, Magneto-Resistive	SM-8	ZMX40MT8TACT-ND	10.50	9.00	8.25	ZMX40MT8TATR-ND	1,000	5100.00

‡ Bulk Pricing

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Panasonic® Transistor Arrays - Composite Transistors (Built-in Resistor)

Dimensions in mm

Fig. 1

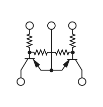

Fig. 2

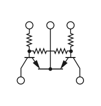

Fig. 3

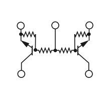

Fig. 4

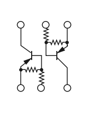

Fig. 5

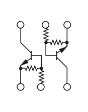

Fig. 6

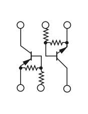

Fig . 7

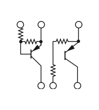

Fig. 8

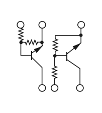

Fig. 9

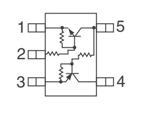

Fig. 10

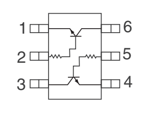

Fig. 11

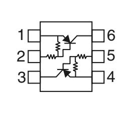

Fig. 12

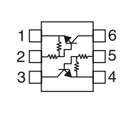

Fig. 13

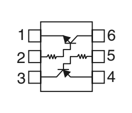

Fig. 14

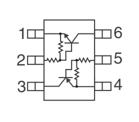

Fig. 15

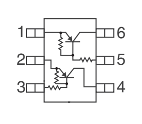

Fig. 16

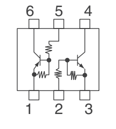

Fig. 17

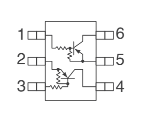

Fig. 18

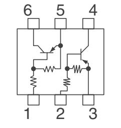

Fig. 19

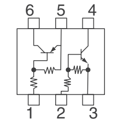

Fig. 20

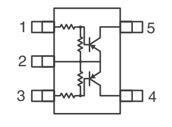

Fig. 21

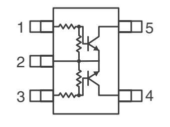

Fig. 22

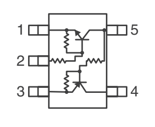

Fig. 23

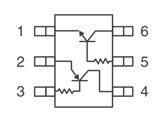

Mini Type (5-pin) / EIAJ: SC-74A

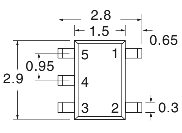

Mini Type (6-pin) / EIAJ: SC-74

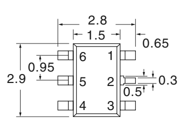

S-Mini Type (5-pin)/ EIAJ: SC-88A

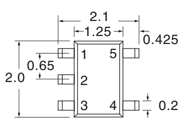

S-Mini Type (6-pin)/ EIAJ: SC-88

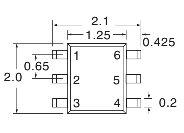

SS-Mini Type (5-pin)

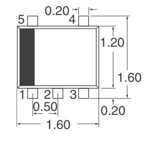

SS-Mini Type (6-pin)

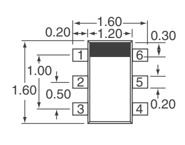

SSS-Mini Type (6-pin)

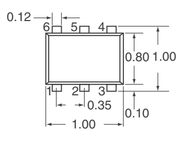

Fig.	Package	Basic Type		Resistor Value		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel	
		PNP	NPN	RB (KΩ)	RBE (KΩ)		1	10	100		Qty.	Pricing
1	Mini 5Pin	UN211F x2	—	4.7	10	XN0111F00LCT-ND	.42	3.47	27.74	XN0111F00LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN211H x2	—	2	10	XN0111H00LCT-ND◆	.42	3.47	27.74	XN0111H00LTR-ND◆	3,000	111.00/M
1	Mini 5Pin	UNR211M x2	—	2.2	47	XN0111M00LCT-ND◆	.42	3.37	23.12	XN0111M00LTR-ND◆	3,000	109.00/M
1	Mini 5Pin	UN1110 x2	—	47	open	XN0111000LCT-ND	.42	3.47	27.74	XN0111000LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN2111 x2	—	10	10	XN0111100LCT-ND◆	.42	3.47	27.74	XN0111100LTR-ND◆	3,000	111.00/M
1	Mini 5Pin	UN2112 x2	—	22	22	XN0111200LCT-ND	.42	3.47	27.74	XN0111200LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN2113 x2	—	47	47	XN0111300LCT-ND	.42	3.47	27.74	XN0111300LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN2114 x2	—	10	47	XN0111400LCT-ND◆	.42	3.47	27.74	XN0111400LTR-ND◆	3,000	111.00/M
1	Mini 5Pin	UN2115 x2	—	10	open	XN0111500LCT-ND	.42	3.47	27.74	XN0111500LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN2116 x2	—	4.7	open	XN0111600LCT-ND	.42	3.47	27.74	XN0111600LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN2119 x2	—	1	10	XN0111900LCT-ND◆	.42	3.47	27.74	XN0111900LTR-ND◆	3,000	111.00/M
2	Mini 5Pin	—	UNR221E x2	47	22	XN0121E00LCT-ND◆	.42	3.37	23.12	XN0121E00LTR-ND◆	3,000	109.00/M
2	Mini 5Pin	—	UNR221F x2	4.7	10	XN0121F00LCT-ND◆	.42	3.37	23.12	XN0121F00LTR-ND◆	3,000	109.00/M
2	Mini 5Pin	—	UN2210 x2	47	open	XN0121000LCT-ND◆	.42	3.47	27.74	XN0121000LTR-ND◆	3,000	111.00/M
2	Mini 5Pin	—	UN2211 x2	10	10	XN0121100LCT-ND◆	.42	3.47	27.74	XN0121100LTR-ND◆	3,000	111.00/M
2	Mini 5Pin	—	UN2212 x2	22	22	XN0121200LCT-ND	.42	3.47	27.74	XN0121200LTR-ND	3,000	111.00/M
2	Mini 5Pin	—	UN2213 x2	47	47	XN0121300LCT-ND◆	.42	3.47	27.74	XN0121300LTR-ND◆	3,000	111.00/M
2	Mini 5Pin	—	UN2214 x2	10	47	XN0121400LCT-ND◆	.42	3.47	27.74	XN0121400LTR-ND◆	3,000	111.00/M
2	Mini 5Pin	—	UN2215 x2	10	open	XN0121500LCT-ND◆	.42	3.47	27.74	XN0121500LTR-ND◆	3,000	111.00/M
2	Mini 5Pin	—	UN2216 x2	4.7	open	XN0121600LCT-ND◆	.42	3.47	27.74	XN0121600LTR-ND◆	3,000	111.00/M
22	Mini 5Pin	UNR2111	UNR2211	10	10	XN0A31100LCT-ND◆	.42	3.37	23.12	XN0A31100LTR-ND◆	3,000	109.00/M
22	Mini 5Pin	UNR2112	UNR2212	22	22	XN0A31200LCT-ND◆	.42	3.37	23.12	XN0A31200LTR-ND◆	3,000	109.00/M
4	Mini 6Pin	—	UNR2226 x2	4.7	open	XN0F25600LCT-ND◆	.79	5.93	44.47	XN0F25600LTR-ND◆	3,000	257.00/M
4	Mini 6Pin	—	XNF261 x2	3.3	open	XN0F26100LCT-ND◆	.65	4.87	36.54	XN0F26100LTR-ND◆	3,000	211.00/M
4	Mini 6Pin	—	XNF263 x2	0.27	open	XN0F26300LCT-ND◆	.79	5.93	44.47	XN0F26300LTR-ND◆	3,000	257.00/M
4	Mini 6Pin	UN2111 x2	—	10	10	XN0411100LCT-ND◆	.42	3.47	27.74	XN0411100LTR-ND◆	3,000	111.00/M
4	Mini 6Pin	UN2112 x2	—	22	22	XN0411200LCT-ND	.42	3.47	27.74	XN0411200LTR-ND	3,000	111.00/M
4	Mini 6Pin	UN2113 x2	—	47	47	XN0411300LCT-ND	.42	3.47	27.74	XN0411300LTR-ND	3,000	111.00/M
4	Mini 6Pin	UN2114 x2	—	10	47	XN0411400LCT-ND◆	.42	3.47	27.74	XN0411400LTR-ND◆	3,000	111.00/M
4	Mini 6Pin	UN2115 x2	—	10	open	XN0411500LCT-ND	.42	3.47	27.74	XN0411500LTR-ND	3,000	111.00/M
4	Mini 6Pin	UN2116 x2	—	4.7	open	XN0411600LCT-ND	.42	3.47	27.74	XN0411600LTR-ND	3,000	111.00/M
4	Mini 6Pin	UNR1130 x2	—	open	10	XN0413000LCT-ND◆	.86	6.48	48.61	XN0413000LTR-ND◆	3,000	281.00/M
5	Mini 6Pin	—	UNR221F x2	4.7	10	XN0421F00LCT-ND◆	.42	3.37	23.12	XN0421F00LTR-ND◆	3,000	109.00/M
5	Mini 6Pin	—	UNR221L x2	4.7	4.7	XN0421L00LCT-ND◆	.42	3.37	23.12	XN0421L00LTR-ND◆	3,000	109.00/M
5	Mini 6Pin	—	UN1210 x2	47	open	XN0421000LCT-ND◆	.42	3.47	27.74	XN0421000LTR-ND◆	3,000	111.00/M
5	Mini 6Pin	—	UN2211 x2	10	10	XN0421100LCT-ND◆	.42	3.47	27.74	XN0421100LTR-ND◆	3,000	111.00/M
5	Mini 6Pin	—	UN2212 x2	22	22	XN0421200LCT-ND	.42	3.47	27.74	XN0421200LTR-ND	3,000	111.00/M
5	Mini 6Pin	—	UN2213 x2	47	47	XN0421300LCT-ND	.42	3.47	27.74	XN0421300LTR-ND	3,000	111.00/M
5	Mini 6Pin	—	UN2214 x2	10	47	XN0421400LCT-ND◆	.42	3.47	27.74	XN0421400LTR-ND◆	3,000	111.00/M
5	Mini 6Pin	—	UN2215 x2	10	open	XN0421500LCT-ND◆	.42	3.47	27.74	XN0421500LTR-ND◆	3,000	111.00/M
5	Mini 6Pin	—	UN2216 x2	4.7	open	XN0421600LCT-ND◆	.42	3.47	27.74	XN0421600LTR-ND◆	3,000	111.00/M
6	Mini 6Pin	UN2111	UN2211	10/10	10/10	XN0431100LCT-ND◆	.42	3.47	27.74	XN0431100LTR-ND◆	3,000	111.00/M
6	Mini 6Pin	UN2112	UN2212	22/22	22/22	XN0431200LCT-ND◆	.42	3.47	27.74	XN0431200LTR-ND◆	3,000	111.00/M
6	Mini 6Pin	UN2114	UN2114	10/10	47/47	XN0431400LCT-ND◆	.42	3.47	27.74	XN0431400LTR-ND◆	3,000	111.00/M
6	Mini 6Pin	UN2115	UN2115	10/10	open/open	XN0431500LCT-ND	.42	3.47	27.74	XN0431500LTR-ND	3,000	111.00/M
6	Mini 6Pin	UN2116	UN2116	4.7/4.7	open/open	XN0431600LCT-ND	.42	3.47	27.74	XN0431600LTR-ND	3,000	111.00/M
6	Mini 6Pin	UNR2122	UNR2222	4.7	4.7	XN0432200LCT-ND◆	.62	4.64	34.82	XN0432200LTR-ND◆	3,000	201.00/M
6	Mini 6Pin	UN2122	UN2213	4.7/4.7	4.7/4.7	XN0438100LCT-ND◆	.42	3.47	27.74	XN0438100LTR-ND◆	3,000	111.00/M
6	Mini 6Pin	UNR211S	2SD0601A	open	4.7	XN04A8800LCT-ND◆	.45	3.75	30.03	XN04A8800LTR-ND◆	3,000	120.00/M
7	Mini 6Pin	—	UN1213 x2	47	47	XN0621300LCT-ND	.42	3.47	27.74	XN0621300LTR-ND	3,000	111.00/M
7	Mini 6Pin	—	UN1215 x2	10	open	XN0621500LCT-ND	.42	3.47	27.74	XN0621500LTR-ND	3,000	111.00/M
7	Mini 6Pin	—	UN1216 x2	4.7	open	XN0621600LCT-ND	.42	3.47	27.74	XN0621600LTR-ND	3,000	111.00/M
8	Mini 6Pin	—	UNR2211 x2	10	10	XN0621100LCT-ND◆	.42	3.37	23.12	XN0621100LTR-ND◆	3,000	109.00/M
1	S Mini 5Pin	UN111F x2	—	4.7	10	XP0111F00LCT-ND	.48	3.98	31.87	XP0111F00LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN111H x2	—	2.2	10	XP0111H00LCT-ND	.48	3.98	31.87	XP0111H00LTR-ND	3,000	127.00/M

◆ ***RoHS Compliant***

(Continued)

Fig.	Package	Basic Type		Resistor Value		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel	
		PNP	NPN	RB (KΩ)	RBE (KΩ)		1	10	100		Qty.	Pricing
1	S Mini 5Pin	UNR211M x2	—	2.2	47	XP0111M00LCT-ND◆	.44	3.69	29.51	XP0111M00LTR-ND◆	3,000	118.00/M
1	S Mini 5Pin	UNR2110 x2	—	47	open	XP0111000LCT-ND◆	.44	3.69	29.51	XP0111000LTR-ND◆	3,000	118.00/M
1	S Mini 5Pin	UN1111 x2	—	10	10	XP0111100LCT-ND	.48	3.98	31.87	XP0111100LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1112 x2	—	22	22	XP0111200LCT-ND	.48	3.96	31.71	XP0111200LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1113 x2	—	47	47	XP0111300LCT-ND	.48	3.98	31.87	XP0111300LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1114 x2	—	10	47	XP0111400LCT-ND	.48	3.98	31.87	XP0111400LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1115 x2	—	10	open	XP0111500LCT-ND	.48	3.98	31.87	XP0111500LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1116 x2	—	4.7	open	XP0111600LCT-ND	.48	3.98	31.87	XP0111600LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1119 x2	—	1	10	XP0111900LCT-ND	.48	3.98	31.87	XP0111900LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UNR221E x2	47	22	XP0121E00LCT-ND◆	.44	3.69	29.51	XP0121E00LTR-ND◆	3,000	118.00/M
2	S Mini 5Pin	—	UNR221L x2	4.7	4.7	XP0121L00LCT-ND◆	.44	3.69	29.51	XP0121L00LTR-ND◆	3,000	118.00/M
2	S Mini 5Pin	—	UNR221N x2	4.7	47	XP0121N00LCT-ND◆	.44	3.69	29.51	XP0121N00LTR-ND◆	3,000	118.00/M
2	S Mini 5Pin	—	UN1210 x2	47	open	XP0121000LCT-ND	.48	3.98	31.87	XP0121000LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1211 x2	10	10	XP0121100LCT-ND◆	.48	3.98	31.87	XP0121100LTR-ND◆	3,000	127.00/M
2	S Mini 5Pin	—	UN1212 x2	22	22	XP0121200LCT-ND◆	.48	3.98	31.87	XP0121200LTR-ND◆	3,000	127.00/M
2	S Mini 5Pin	—	UN1213 x2	47	47	XP0121300LCT-ND◆	.48	3.98	31.87	XP0121300LTR-ND◆	3,000	127.00/M
2	S Mini 5Pin	—	UN1214 x2	10	47	XP0121400LCT-ND	.48	3.98	31.87	XP0121400LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1215 x2	10	open	XP0121500LCT-ND◆	.48	3.98	31.87	XP0121500LTR-ND◆	3,000	127.00/M
2	S Mini 5Pin	—	UN1216 x2	4.7	open	XP0121600LCT-ND◆	.48	3.98	31.87	XP0121600LTR-ND◆	3,000	127.00/M
2	S Mini 5Pin	—	UN1217 x2	22	open	XP0121700LCT-ND◆	.48	3.98	31.87	XP0121700LTR-ND◆	3,000	127.00/M
2	S Mini 5Pin	—	UNR221Mx2	2.2	47	XP0121M00LCT-ND◆	.37	2.98	20.46	XP0121M00LTR-ND◆	3,000	97.00/M
3	S Mini 5Pin	—	UNR2211 x2	10	10	XP0221100LCT-ND◆	.41	3.45	27.58	XP0221100LTR-ND◆	3,000	110.00/M
22	S Mini 5Pin	UNR2111	UNR2211	10	10	XP0331100LCT-ND◆	.44	3.69	29.51	XP0331100LTR-ND◆	3,000	118.00/M
22	S Mini 5Pin	UNR2112	UNR2212	22	22	XP0331200LCT-ND◆	.44	3.69	29.51	XP0331200LTR-ND◆	3,000	118.00/M
22	S Mini 5Pin	UNR211F	UNR2213	4.7/47	10/47	XP0338300LCT-ND◆	.44	3.69	29.51	XP0338300LTR-ND◆	3,000	118.00/M
22	S Mini 5Pin	UNR2114	UNR2213	10/47	47/47	XP0339000LCT-ND◆	.44	3.69	29.51	XP0339000LTR-ND◆	3,000	118.00/M
3	S Mini 6Pin	UN1111 x2	—	10	10	XP0411100LCT-ND	.48	3.98	31.87	XP0411100LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1112 x2	—	22	22	XP0411200LCT-ND	.48	3.98	31.87	XP0411200LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1113 x2	—	47	47	XP0411300LCT-ND	.48	3.98	31.87	XP0411300LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1114 x2	—	10	47	XP0411400LCT-ND	.48	3.98	31.87	XP0411400LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1115 x2	—	10	open	XP0411500LCT-ND	.48	3.98	31.87	XP0411500LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1116 x2	—	4.7	open	XP0411600LCT-ND	.48	3.98	31.87	XP0411600LTR-ND	3,000	127.00/M
5	S Mini 6Pin	—	UNR221M x2	2.2	47	XP0421M00LCT-ND◆	.44	3.69	29.51	XP0421M00LTR-ND◆	3,000	118.00/M
5	S Mini 6Pin	—	UN1210 x2	47	open	XP0421000LCT-ND	.48	3.98	31.87	XP0421000LTR-ND	3,000	127.00/M
5	S Mini 6Pin	—	UN1211 x2	10	10	XP0421100LCT-ND◆	.48	3.98	31.87	XP0421100LTR-ND◆	3,000	127.00/M
5	S Mini 6Pin	—	UN1212 x2	22	22	XP0421200LCT-ND	.48	3.98	31.87	XP0421200LTR-ND	3,000	127.00/M
5	S Mini 6Pin	—	UN1213 x2	47	47	XP0421300LCT-ND	.48	3.98	31.87	XP0421300LTR-ND	3,000	127.00/M
5	S Mini 6Pin	—	UN1214 x2	10	47	XP0421400LCT-ND	.48	3.98	31.87	XP0421400LTR-ND	3,000	127.00/M
5	S Mini 6Pin	—	UN1215 x2	10	open	XP0421500LCT-ND	.48	3.98	31.87	XP0421500LTR-ND	3,000	127.00/M
5	S Mini 6Pin	—	UN1216 x2	4.7	open	XP0421600LCT-ND◆	.48	3.98	31.87	XP0421600LTR-ND◆	3,000	127.00/M
5	S Mini 6Pin	—	UNR221N x2	1/4.7	10/47	XP0428600LCT-ND◆	.44	3.69	29.51	XP0428600LTR-ND◆	3,000	118.00/M
6	S Mini 6Pin	UNR211N	UNR221N	4.7	47	XP0431N00LCT-ND◆	.44	3.69	29.51	XP0431N00LTR-ND◆	3,000	118.00/M
6	S Mini 6Pin	UN1211	UN1111	10	10	XP0431100LCT-ND	.48	3.98	31.87	XP0431100LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UN1212	UN1112	22	22	XP0431200LCT-ND◆	.48	3.98	31.87	XP0431200LTR-ND◆	3,000	127.00/M
6	S Mini 6Pin	UNR2113	UNR2213	47	47	XP0431300LCT-ND◆	.44	3.69	29.51	XP0431300LTR-ND◆	3,000	118.00/M
6	S Mini 6Pin	UN2214	UN2114	10	47	XP0431400LCT-ND◆	.48	3.98	31.87	XP0431400LTR-ND◆	3,000	127.00/M
6	S Mini 6Pin	UN1215	UN1115	10	open	XP0431500LCT-ND	.48	3.98	31.87	XP0431500LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UN1216	UN1116	4.7	open	XP0431600LCT-ND	.48	3.98	31.87	XP0431600LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UNR2119	UNR2213	1/47	10/47	XP0438700LCT-ND◆	.45	3.75	30.03	XP0438700LTR-ND◆	3,000	120.00/M
7	S Mini 6Pin	UNR2111 x2	—	10	10	XP0611100LCT-ND◆	.44	3.69	29.51	XP0611100LTR-ND◆	3,000	118.00/M
7	S Mini 6Pin	UNR2113 x2	—	47	47	XP0611300LCT-ND◆	.44	3.69	29.51	XP0611300LTR-ND◆	3,000	118.00/M
7	S Mini 6Pin	UN1115 x2	—	10	open	XP0611500LCT-ND	.48	3.98	31.87	XP0611500LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UNR2210 x2	47	open	XP0621000LCT-ND◆	.44	3.69	29.51	XP0621000LTR-ND◆	3,000	118.00/M
8	S Mini 6Pin	—	UN1211 x2	10	10	XP0621100LCT-ND◆	.48	3.98	31.87	XP0621100LTR-ND◆	3,000	127.00/M
8	S Mini 6Pin	—	UN1212 x2	22	22	XP0621200LCT-ND	.48	3.98	31.87	XP0621200LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1213 x2	47	47	XP0621300LCT-ND	.48	3.98	31.87	XP0621300LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1214 x2	10	47	XP0621400LCT-ND	.48	3.98	31.87	XP0621400LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1215 x2	10	open	XP0621500LCT-ND◆	.48	3.98	31.87	XP0621500LTR-ND◆	3,000	127.00/M
8	S Mini 6Pin	—	UNR2216 x2	4.7	open	XP0621600LCT-ND◆	.44	3.69	29.51	XP0621600LTR-ND◆	3,000	118.00/M
20	SS Mini 5Pin	UNR2113 x2	—	47	47	UP0111300LCT-ND◆	.55	4.10	30.74	UP0111300LTR-ND◆	8,000	174.00/M
2	SS Mini 5Pin	—	UNR221M x2	2.2	47	UP0121M00LCT-ND◆	.55	4.10	30.74	UP0121M00LTR-ND◆	8,000	174.00/M
21	SS Mini 5Pin	—	UNR2113 x2	47	47	UP0121300LCT-ND◆	.55	4.10	30.74	UP0121300LTR-ND◆	8,000	174.00/M
2	SS Mini 5Pin	—	UNR2214 x2	10	47	UP0121400LCT-ND◆	.55	4.10	30.74	UP0121400LTR-ND◆	8,000	174.00/M
9	SS Mini 5Pin	UNR2112	UNR2212	22/22	22/22	UP0331200LCT-ND◆	.59	4.43	33.20	UP0331200LTR-ND◆	8,000	188.00/M
9	SS Mini 5Pin	UNR211F	UNR2213	47/4.7	47/10	UP0338300LCT-ND	.59	4.43	33.20	UP0338300LTR-ND	8,000	188.00/M
22	SS Mini 5Pin	UNR2114	UNR2213	10/47	47/47	UP0339000LCT-ND◆	.55	4.10	30.74	UP0339000LTR-ND◆	8,000	174.00/M
22	SS Mini 5Pin	UNR2118	UNR2213	47/.51	47/5.1	UP0339400LCT-ND◆	.55	4.10	30.74	UP0339400LTR-ND◆	8,000	174.00/M
22	SS Mini 5Pin	UNR211T	UNR2211	10/22	10/47	UP0339600LCT-ND◆	.55	4.10	30.74	UP0339600LTR-ND◆	8,000	174.00/M
22	SS Mini 5Pin	UNR2154	UNR2211	10/10	10/47	UP0339700LCT-ND◆	.55	4.10	30.74	UP0339700LTR-ND◆	8,000	174.00/M
11	SS Mini 6Pin	UNR111M x2	—	2.2/2.2	47/47	UP0411M00LCT-ND◆	.59	4.43	33.20	UP0411M00LTR-ND◆	8,000	188.00/M
11	SS Mini 6Pin	UN2111 x2	—	10	10	UP0411100LCT-ND◆	.61	4.59	34.43	UP0411100LTR-ND◆	8,000	195.00/M
4	SS Mini 6Pin	UNR2112 x2	—	22	22	UP0411200LCT-ND◆	.55	4.10	30.74	UP0411200LTR-ND◆	8,000	174.00/M
11	SS Mini 6Pin	—	UNR2113 x2	47	47	UP0411300LCT-ND◆	.55	4.10	30.74	UP0411300LTR-ND◆	8,000	174.00/M
12	SS Mini 6Pin	—	UNR2210 x2	47	open	UP0421000LCT-ND◆	.59	4.43	33.20	UP0421000LTR-ND◆	8,000	188.00/M
12	SS Mini 6Pin	—	UNR2111 x2	10	10	UP0421100LCT-ND◆	.55	4.10	30.74	UP0421100LTR-ND◆	8,000	174.00/M
12	SS Mini 6Pin	—	UN2213 x2	47	47	UP0421300LCT-ND◆	.61	4.59	34.43	UP0421300LTR-ND◆	8,000	195.00/M
12	SS Mini 6Pin	UNR2114	UNR2214	10/10	47/47	UP0421400LCT-ND◆	.59	4.43	33.20	UP0421400LTR-ND◆	8,000	188.00/M
10	SS Mini 6Pin	UNR2115	UNR2215	10/10	open	UP0421500LCT-ND◆	.59	4.43	33.20	UP0421500LTR-ND◆	8,000	188.00/M
12	SS Mini 6Pin	—	UNR2216 x2	4.7	open	UP0421600LCT-ND◆	.59	4.43	33.20	UP0421600LTR-ND◆	8,000	188.00/M
6	SS Mini 6Pin	UNR211N	UNR221N	4.7	47	UP0431N00LCT-ND◆	.55	4.10	30.74	UP0431N00LTR-ND◆	8,000	174.00/M
14	SS Mini 6Pin	UNR2111	UNR2211	10	10	UP0431100LCT-ND◆	.55	4.10	30.74	UP0431100LTR-ND◆	8,000	174.00/M
14	SS Mini 6Pin	UNR2112	UNR2212	22	22	UP0431200LCT-ND◆	.55	4.10	30.74	UP0431200LTR-ND◆	8,000	174.00/M
14	SS Mini 6Pin	UNR2113	UNR2213	47	47	UP0431300LCT-ND◆	.59	4.43	33.20	UP0431300LTR-ND◆	8,000	188.00/M
14	SS Mini 6Pin	UNR2114	UNR2214	10/10	47/47	UP0431400LCT-ND◆	.59	4.43	33.20	UP0431400LTR-ND◆	8,000	188.00/M
13	SS Mini 6Pin	UNR2115	UNR2215	10	open	UP0431500LCT-ND◆	.55	4.10	30.74	UP0431500LTR-ND◆	8,000	174.00/M
13	SS Mini 6Pin	UN2116	UN2216	4.7	open	UP0431600LCT-ND◆	.61	4.59	34.43	UP0431600LTR-ND◆	8,000	195.00/M
14	SS Mini 6Pin	UNR2114	UNR2213	10/47	47/47	UP0439000LCT-ND◆	.55	4.10	30.74	UP0439000LTR-ND◆	8,000	174.00/M
14	SSS Mini 6Pin	UNR31A2	UNR32A2	22	22	NP043A200ACT-ND◆	.93	6.97	52.26	NP043A200ATR-ND◆	10,000	290.00/M
6	SSS Mini 6Pin	UNR31A3	UNR32A3	47	47	NP043A300ACT-ND◆	.93	6.97	52.26	NP043A300ATR-ND◆	10,000	290.00/M
15	SSS Mini 6Pin	UNR31A3 x2	—	47	47	NP061A300ACT-ND	.75	6.27	50.17	NP061A300ATR-ND	10,000	314.00/M
15	SSS Mini 6Pin	UNR31A5 x2	—	10	10	NP061A500ACT-ND	.75	6.27	50.17	NP061A500ATR-ND	10,000	314.00/M
8	SSS Mini 6Pin	—	UNR32AN x2	4.7	47	NP062AN00ACT-ND◆	.93	6.97	52.26	NP062AN00ATR-ND◆	10,000	290.00/M
23	SSS Mini 6Pin	UNR31A0	UNR32A5	10/47	open	NP063D300ACT-ND◆	.93	6.97	52.26	NP063D300ATR-ND◆	10,000	290.00/M
16	SSS Mini 6Pin	UNR31A3	UNR32A3	47/47	47/47	NP0H3A300ACT-ND◆	.93	6.97	52.26	NP0H3A300ATR-ND◆	10,000	290.00/M
17	SSS Mini 6Pin	UNR31A3 x2	—	47/47	47/47	NP0J1A300ACT-ND◆	.93	6.97	52.26	NP0J1A300ATR-ND◆	10,000	290.00/M
18	SSS Mini 6Pin	UNR31AE x2	—	47/22	47/22	NP0G1AE00ACT-ND◆	.93	6.97	52.26	NP0G1AE00ATR-ND◆	10,000	290.00/M
19	SSS Mini 6Pin	UNR31A0	UNR32A0	47	open	NP0G3A000ACT-ND◆	.93	6.97	52.26	NP0G3A000ATR-ND◆	10,000	290.00/M
19	SSS Mini 6Pin	UNR31A3	UNR32A3	47/47	47/47	NP0G3A300ACT-ND◆	.93	6.97	52.26	NP0G3A300ATR-ND◆	10,000	290.00/M
19	SSS Mini 6Pin	UNR31A3	UNR32AL	47/4.7	47/4.7	NP0G3D100ACT-ND◆	.93	6.97	52.26	NP0G3D100ATR-ND◆	10,000	290.00/M
19	SSS Mini 6Pin	UNR31AT	UNR32AL	22/4.7	47/4.7	NP0G3D200ACT-ND◆	.93	6.97	52.26	NP0G3D200ATR-ND◆	10,000	290.00/M
19	SSS Mini 6Pin	UNR31A3	UNR32AT	47/22	47/47	NP0G3D300ACT-ND◆	.93	6.97	52.26	NP0G3D300ATR-ND◆	10,000	290.00/M

◆ ***RoHS Compliant***

Dimensions in mm

Fig. 1
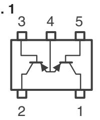

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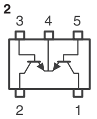

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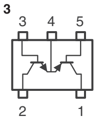

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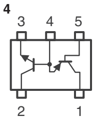

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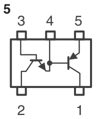

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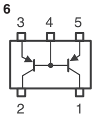

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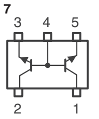

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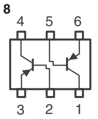

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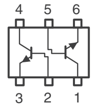

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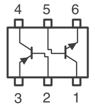

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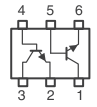

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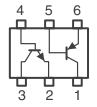

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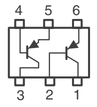

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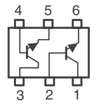

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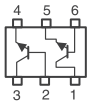

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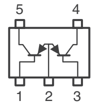

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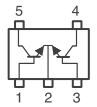

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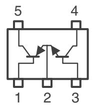

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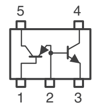

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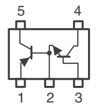

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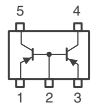

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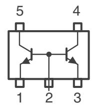

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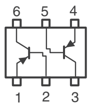

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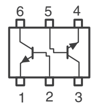

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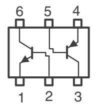

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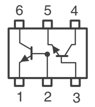

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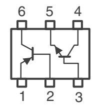

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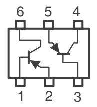

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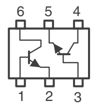

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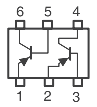

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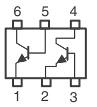

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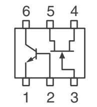

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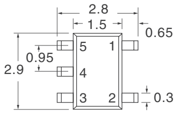

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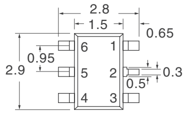

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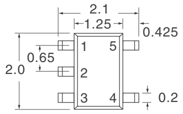

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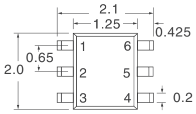

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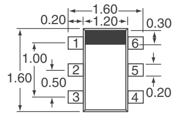

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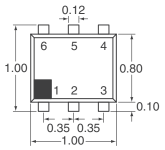

Fig.	Basic Type		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel	
	PNP	NPN		1	10	100		Qty.	Pricing
Mini Type 5-Pin									
1	2SB709A x2	—	XN0140100LCT-ND◆	.42	3.37	23.10	XN0140100LTR-ND◆	3,000	109.00/M
1	2SB1693 x2	—	XN0145700LCT-ND◆	.60	4.50	33.78	XN0145700LTR-ND◆	3,000	195.00/M
2	—	2SD601A x2	XN0150100LCT-ND◆	.42	3.37	23.10	XN0150100LTR-ND◆	3,000	109.00/M
2	—	2SD1938 x2	XN0150400LCT-ND	.60	4.50	33.76	XN0150400LTR-ND	3,000	195.00/M
2	—	2SC4561 x2	XN0150900LCT-ND	.55	4.12	30.87	XN0150900LTR-ND	3,000	178.00/M
2	—	2SC3130 x2	XN0153100LCT-ND◆	.91	6.79	50.96	XN0153100LTR-ND◆	3,000	294.00/M
2	—	2SD2623 x2	XN0155800LCT-ND	.60	4.50	33.78	—	—	—
3	2SB709A	2SD601A	XN0160100LCT-ND◆	.42	3.37	23.10	XN0160100LTR-ND◆	3,000	109.00/M
3	2SA719A	2SC1317	XN0160200LCT-ND◆	.42	3.37	25.28	XN0160200LTR-ND◆	3,000	112.00/M
6	2SB709A x2	—	XN0240100LCT-ND◆	.42	3.37	23.10	XN0240100LTR-ND◆	3,000	109.00/M
7	—	2SD601A x2	XN0250100LCT-ND◆	.42	3.37	23.10	XN0250100LTR-ND◆	3,000	109.00/M
4	2SB709A	2SD601A	XN0B30100LCT-ND	.42	3.47	27.74	XN0B30100LTR-ND	3,000	111.00/M
5	2SB709A	2SD601A	XN0C30100LCT-ND	.42	3.47	27.74	XN0C30100LTR-ND	3,000	111.00/M
Mini Type 6-Pin									
8	2SB709A x2	—	XN0440100LCT-ND◆	.42	3.37	23.10	XN0440100LTR-ND◆	3,000	109.00/M
8	2SB710A x2	—	XN0440200LCT-ND◆	.56	4.24	31.77	XN0440200LTR-ND◆	3,000	184.00/M
8	2SB970 x2	—	XN0440400LCT-ND◆	.65	4.89	36.65	XN0440400LTR-ND◆	3,000	212.00/M
9	—	2SD601A x2	XN0450100LCT-ND◆	.42	3.37	23.09	XN0450100LTR-ND◆	3,000	109.00/M
9	—	2SD602A x2	XN0450200LCT-ND◆	.58	4.64	34.84	XN0450200LTR-ND◆	3,000	154.00/M
9	—	2SD1328 x2	XN0450400LCT-ND◆	.61	4.54	34.06	XN0450400LTR-ND◆	3,000	197.00/M
9	—	2SD0601/2SD1328	XN0450500LCT-ND◆	.48	3.61	27.05	XN0450500LTR-ND◆	3,000	156.00/M
9	—	2SD1915F x2	XN0450600LCT-ND◆	.89	6.71	50.33	XN0450600LTR-ND◆	3,000	291.00/M
10	2SB709A	2SD601A	XN0460100LCT-ND◆	.42	3.37	23.10	XN0460100LTR-ND◆	3,000	109.00/M
10	2SB0710A	2SD0602A	XN0460200LCT-ND◆	.66	4.96	37.23	XN0460200LTR-ND◆	3,000	215.00/M
10	2SB970	2SD1328	XN0460400LCT-ND◆	.82	6.16	46.18	XN0460400LTR-ND◆	3,000	267.00/M
10	2SB970	2SD601A	XN0460800LCT-ND	.50	3.71	27.85	XN0460800LTR-ND	3,000	161.00/M
10	2SB709A	2SD1328	XN0460900LCT-ND	.59	4.43	33.20	XN0460900LTR-ND	3,000	192.00/M
11	—	2SD601A x2	XN0550100LCT-ND◆	.42	3.37	23.10	XN0550100LTR-ND◆	3,000	109.00/M
11	—	2SC3130 x2	XN0553100LCT-ND	.67	5.00	37.51	XN0553100LTR-ND	3,000	217.00/M
11	—	2SD1149 x2	XN0555300LCT-ND◆	.81	6.04	45.32	XN0555300LTR-ND◆	3,000	262.00/M
12	2SB709A	2SD601A	XN0560100LCT-ND◆	.42	3.37	23.10	XN0560100LTR-ND◆	3,000	109.00/M
13	2SB709A x2	—	XN0640100LCT-ND◆	.42	3.37	23.10	XN0640100LTR-ND◆	3,000	109.00/M
13	2SA1022 x2	—	XN0643500LCT-ND◆	.93	6.94	52.06	XN0643500LTR-ND◆	3,000	301.00/M
14	—	2SD601A x2	XN0650100LCT-ND◆	.42	3.37	23.10	XN0650100LTR-ND◆	3,000	109.00/M
14	—	2SC2404 x2	XN0653400LCT-ND	.82	6.16	46.18	XN0653400LTR-ND	3,000	267.00/M
14	—	2SC3110 x2	XN0653700LCT-ND	.67	5.00	37.51	XN0653700LTR-ND	3,000	217.00/M
14	—	2SC3904 x2	XN0654300LCT-ND	.96	8.02	64.15	XN0654300LTR-ND	3,000	417.00/M
15	—	2SC3757 x2	XN0A55400LCT-ND◆	.86	6.44	48.26	XN0A55400LTR-ND◆	3,000	279.00/M
S-Mini Type 5-Pin									
16	2SB709A x2	—	XP0140100LCT-ND	.42	3.43	23.53	XP0140100LTR-ND	3,000	111.00/M
17	—	2SD601A x2	XP0150100LCT-ND◆	.42	3.43	23.53	XP0150100LTR-ND◆	3,000	111.00/M
17	—	2SD1915F x2	XP0150400LCT-ND◆	.53	4.00	29.99	XP0150400LTR-ND◆	3,000	173.00/M
18	2SB709A	2SD601A	XP0160100LCT-ND◆	.40	3.22	22.06	XP0160100LTR-ND◆	3,000	104.00/M
21	2SB709A x2	—	XP0240100LCT-ND◆	.42	3.43	23.53	XP0240100LTR-ND◆	3,000	111.00/M
22	—	2SD601A x2	XP0250100LCT-ND◆	.42	3.43	23.53	XP0250100LTR-ND◆	3,000	111.00/M
19	2SB709A	2SD601A	XP0B30100LCT-ND	.42	3.53	28.21	XP0B30100LTR-ND	3,000	113.00/M
20	2SB709A	2SD601A	XP0C30100LCT-ND	.42	3.53	28.21	XP0C30100LTR-ND	3,000	113.00/M
S-Mini Type 6-Pin									
23	2SB709A x2	—	XP0440100LCT-ND◆	.42	3.43	23.53	XP0440100LTR-ND◆	3,000	111.00/M
24	—	2SD601A x2	XP0450100LCT-ND◆	.40	3.22	22.06	XP0450100LTR-ND◆	3,000	104.00/M
24	—	2SD1915F x2	XP0450600LCT-ND◆	.53	4.00	29.99	XP0450600LTR-ND◆	3,000	173.00/M
25	2SB709A	2SD601A	XP0460100LCT-ND◆	.42	3.43	23.53	XP0460100LTR-ND◆	3,000	111.00/M
25	2SA1738	2SC3757	XP0465400LCT-ND	.72	5.39	40.40	XP0465400LTR-ND	3,000	233.00/M
26	—	2SD601A x2	XP0550100LCT-ND◆	.40	3.22	22.06	XP0550100LTR-ND◆	3,000	104.00/M
26	—	2SC3130 x2	XP0553100LCT-ND◆	.66	4.92	36.89	XP0553100LTR-ND◆	3,000	213.00/M
26	—	2SD1149 x2	XP0555300LCT-ND◆	.74	5.52	41.37	XP0555300LTR-ND◆	3,000	239.00/M

◆ *RoHS Compliant*

(Continued)

Panasonic Transistor Arrays - Composite Transistors *(Cont.)*

Fig.	Basic Type		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel	
	PNP	NPN		1	10	100		Qty.	Pricing
26	—	2SC3757 x2	XP0555400LCT-ND◆	.47	3.74	28.04	XP0555400LTR-ND◆	3,000	124.00/M
27	2SB709A	2SD601A	XP0560100LCT-ND	.42	3.43	23.53	XP0560100LTR-ND	3,000	111.00/M
30	2SB709A x2	—	XP0640100LCT-ND	.42	3.43	23.53	XP0640100LTR-ND	3,000	111.00/M
30	2SA1022 x2	—	XP0643500LCT-ND◆	.93	6.94	52.06	XP0643500LTR-ND◆	3,000	301.00/M
31	—	2SD601A x2	XP0650100LCT-ND◆	.42	3.43	23.53	XP0650100LTR-ND◆	3,000	111.00/M
31	—	2SC3904 x2	XP0653400LCT-ND◆	.64	4.78	35.85	XP0653400LTR-ND◆	3,000	207.00/M
31	—	2SC3904 x2	XP0654300LCT-ND◆	1.44	11.55	86.64	XP0654300LTR-ND◆	3,000	739.00/M
SS-Mini Type 6-Pin — RoHS Compliant									
23	2SB709A x2	—	UP0440100LCT-ND	.61	4.59	34.43	UP0440100LTR-ND	8,000	195.00/M
24	—	2SD601A x2	UP0450100LCT-ND	.61	4.59	34.43	UP0450100LTR-ND	8,000	195.00/M
24	—	2SC2404 x2	UP0453400LCT-ND	.71	5.33	39.96	UP0453400LTR-ND	8,000	226.00/M
24	—	2SC1047/2SC3311A	UP0459800LCT-ND	.48	3.63	27.23	UP0459800LTR-ND	8,000	154.00/M
24	—	2SC3354/2SC3311A	UP0459900LCT-ND	.48	3.63	27.23	UP0459900LTR-ND	8,000	154.00/M
25	2SB709A	2SD601A	UP0460100LCT-ND	.61	4.59	34.43	UP0460100LTR-ND	8,000	195.00/M
32	—	2SC3931/CCD	UP05C8B00LCT-ND	.80	5.98	44.82	UP05C8B00LTR-ND	8,000	254.00/M
SSS-Mini Type 6-Pin — RoHS Compliant									
24	—	2SD0601A x2	NP0450100ACT-ND	.42	3.37	25.28	NP0450100ATR-ND	10,000	105.00/M
28	2SA2082 x2	—	NP0A45600ACT-ND	.93	6.97	52.26	NP0A45600ATR-ND	10,000	290.00/M
29	—	2SC5829 x2	NP0A54700ACT-ND	.64	4.83	36.20	NP0A54700ATR-ND	10,000	201.00/M

◆ ***RoHS Compliant***

Variable Capacitance Diodes - Silicon Epitaxial Planar Type

Dim. in mm

SS-Mini (2-pin)

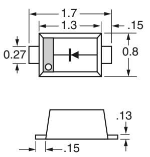

SSS-Mini (2-pin)

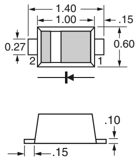

1006 Leadless

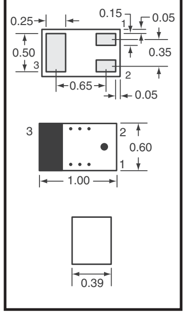

Package	Application	VR (V)	IR (nA)	CD @ 1MHz		CD @ 1MHz		RD @ 470Mhz Ω (max.)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel	
				@VR	pF(max.)	@VR	pF(max.)			1	10	100		Qty.	Pricing
SS-Mini 2P	Band Switching	35	33*	6	1.2	—	—	.85*	MA2S07700LCT-ND◆	.40	3.32	26.56	MA2S07700LTR-ND◆	3,000	106.00/M
	VCO	30	28	1	29.8	4	8.3	1.0*	MA2S30400LCT-ND◆	.46	3.66	27.44	MA2S30400LTR-ND◆	3,000	122.00/M
	VCO/UHF	12	12	1	20	4	12.4	.22	MA2S33100LCT-ND◆	.43	3.42	25.67	MA2S33100LTR-ND◆	3,000	114.00/M
	CATV Tuner	34	30	2	34.3	10	8.32	.54	MA2S35700LCT-ND◆	.43	3.42	25.67	MA2S35700LTR-ND◆	3,000	114.00/M
	UHF/VHF Tuner	32	30	2	15.47	10	6.13	.45	MA2S37200LCT-ND	.46	3.84	30.69	MA2S37200LTR-ND	3,000	123.00/M
	CATV Tuner	34	30	2	50.79	10	13.08	.90	MA2S37400LCT-ND	.48	3.84	28.77	MA2S37400LTR-ND	3,000	128.00/M
	VCO/TCXO	12	12	2	3.4	10	1.5	.60	MA2S37700LCT-ND◆	.44	3.54	26.56	MA2S37700LTR-ND◆	3,000	118.00/M
	VCO/UHF	6	10	1	16	3	8.9	.30	MA2S37600LCT-ND◆	.40	3.22	22.06	MA2S37600LTR-ND◆	3,000	104.00/M
	VCO	6	10	1	20.0	4	9.0	.30	MA2SV0200LCT-ND◆	.43	3.39	23.89	MA2SV0200LTR-ND◆	3,000	98.00/M
	VCO	6	10	1	11.1	3	6.4	.35	MA2SV0400LCT-ND◆	.41	3.21	22.59	MA2SV0400LTR-ND◆	3,000	92.00/M
	VCO	6	10	1	16.4	3	9.2	.35	MA2SV0900LCT-ND◆	.44	3.40	23.95	MA2SV0900LTR-ND◆	3,000	98.00/M
	VCO	6	10	1	17.0	3	7.0	1.0	MA2SV0100LCT-ND◆	.40	3.15	22.18	MA2SV0100LTR-ND◆	3,000	91.00/M
	VCO	6	10	1	5.80	4	2.58	.3	MA2SV0300LCT-ND◆	.40	3.15	22.18	MA2SV0300LTR-ND◆	3,000	91.00/M
	VCO	6	10	1	20.5	4	4.1	.65	MA2SV0500LCT-ND◆	.40	3.15	22.18	MA2SV0500LTR-ND◆	3,000	91.00/M
	VCO	6	10	1	3.12	3	1.62	.35	MA2SV0700LCT-ND◆	.40	3.15	22.18	MA2SV0700LTR-ND◆	3,000	91.00/M
	VCO	6	10	0.5	7.91	2.5	3.23	.45	MA2SV1500LCT-ND◆	.40	3.15	22.18	MA2SV1500LTR-ND◆	3,000	91.00/M
SSS-Mini 2P	VCO	6	6	1	17	3	7	1.0	MA27V0100LCT-ND◆	.50	4.01	30.10	MA27V0100LTR-ND◆	10,000	125.00/M
	VCO	6	5	1	20	4	9	.30	MA27V0200LCT-ND◆	.53	4.25	31.87	MA27V0200LTR-ND◆	10,000	133.00/M
	VCO	6	5	1	5.8	4	2.58	.30	MA27V0300LCT-ND◆	.46	3.66	27.44	MA27V0300LTR-ND◆	10,000	114.00/M
	VCO	6	5	1	11.1	3	6.4	.35	MA27V0400LCT-ND	.46	3.66	27.44	—	—	—
	VCO	10	10	1	20.5	4	4.1	.65	MA27V0500LCT-ND◆	.51	4.07	30.54	MA27V0500LTR-ND◆	10,000	127.00/M
	VCO	6	5	1	3.12	3	1.62	.35	MA27V0700LCT-ND◆	.47	3.78	28.33	MA27V0700LTR-ND◆	10,000	118.00/M
	VCO	6	5	1	16.4	3	9.2	.35	MA27V0900LCT-ND	.54	4.31	32.31	MA27V0900LTR-ND	10,000	135.00/M
	VCO	8	5	1	3.01	4	1.34	.35	MA27V1100LCT-ND◆	.54	4.31	32.31	MA27V1100LTR-ND◆	10,000	135.00/M
	VCO	8	5	1	3.9	4	2.14	.35	MA27V1200LCT-ND	.55	4.43	33.20	—	—	—
	VCO	12	10	1	12.29	3	5.81	.40	MA27V1300LCT-ND◆	.55	4.43	33.20	MA27V1300LTR-ND◆	10,000	138.00/M
	VCO	60	5	0.5	7.91	2.5	3.23	.45	MA27V1500LCT-ND◆	.58	4.60	34.52	MA27V1500LTR-ND◆	10,000	144.00/M
	VCO	6	10	1	18.95	3	8.37	.30	MA27V1600LCT-ND◆	.41	3.30	22.62	MA27V1600LTR-ND◆	10,000	94.00/M
	VCO	6	10	1	3	3	1.41	.30	MA27V1800LCT-ND◆	.92	7.66	61.29	MA27V1800LTR-ND◆	10,000	383.00/M
	VCO	6	10	1	19.5	3	9.9	.35	MA27V2000LCT-ND◆	.40	3.22	22.06	MA27V2000LTR-ND◆	10,000	92.00/M
	VCO	6	10	1	19.13	4	7.6	.30	MA27V2200LCT-ND◆	.40	3.22	22.06	MA27V2200LTR-ND◆	10,000	92.00/M
	VCO	6	10	1	2.46	4	1.1	.35	MA27V2300LCT-ND◆	.40	3.22	22.06	MA27V2300LTR-ND◆	10,000	92.00/M
	VCO/UHF	6	6	1	16	3	8.9	.30	MA2737600LCT-ND	.46	3.66	27.44	—	—	—
	VCO	6	10	1	2.50	3	1.28	.35	MA27V1900LCT-ND◆	.53	4.26	31.97	—	—	—
1006 Leadless	VCO	6	10	1	17	3	7	1.0	MA26V0100ACT-ND◆	.43	3.60	28.80	MA26V0100ATR-ND◆	10,000	101.00/M
	VCO	6	10	1	20	4	8.6	.30	MA26V0200ACT-ND◆	.43	3.60	28.80	MA26V0200ATR-ND◆	10,000	101.00/M
	VCO	6	10	1	5.8	4	2.58	.30	MA26V0300ACT-ND◆	.43	3.60	28.80	MA26V0300ATR-ND◆	10,000	101.00/M
	VCO	6	10	1	11.1	3	6.4	.35	MA26V0400ACT-ND◆	.43	3.60	28.80	MA26V0400ATR-ND◆	10,000	101.00/M
	VCO	10	10	1	20.5	4	4.1	.65	MA26V0500ACT-ND◆	.42	3.37	25.28	—	—	—
	VCO	6	10	1	3.12	3	1.62	.35	MA26V0700ACT-ND◆	.43	3.60	28.80	MA26V0700ATR-ND◆	10,000	101.00/M
	VCO	6	10	1	16.4	3	9.2	.35	MA26V0900ACT-ND◆	.43	3.60	28.80	MA26V0900ATR-ND◆	10,000	101.00/M
	VCO	8	10	1	3.01	4	1.34	.35	MA26V1100ACT-ND◆	.43	3.60	28.80	—	—	—
	VCO	6	10	0.5	7.91	2.5	3.23	.45	MA26V1500ACT-ND◆	.43	3.60	28.80	MA26V1500ATR-ND◆	10,000	101.00/M
	VCO	6	10	1	18.95	3	8.37	.30	MA26V1600ACT-ND◆	.45	3.75	30.03	MA26V1600ATR-ND◆	10,000	105.00/M
	VCO	6	10	1	19.5	3	9.9	.35	MA26V2000ACT-ND◆	.43	3.60	28.80	MA26V2000ATR-ND◆	10,000	101.00/M
	VCO	6	10	1	19.13	4	7.6	.30	MA26V2200ACT-ND◆	.43	3.60	28.80	—	—	—
	VCO/UHF	6	10	1	16	3	8.9	.30	MA2637600ACT-ND◆	.43	3.60	28.80	MA2637600ATR-ND◆	10,000	101.00/M

* 100MHz ◆ ***RoHS Compliant***

PNP Transistors with Diode Protection

Dim. in mm

Mini Type (6-pin)

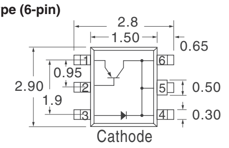

1: Emitter
2: Base
3: Anode
4: Collector
5: Collector
6: Collector

S-Mini Type (6-pin)

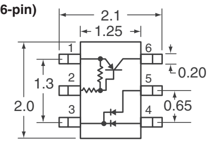

1: Emitter(Tr)
2: Base(Tr)
3: Cathode(Di)
4: Anode1(Di)
5: Anode2(Di)
6: Collector(Tr)

SS-Mini (5-pin)

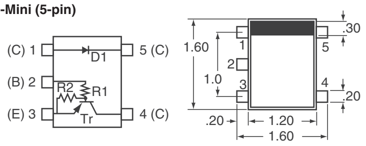

Application	Package	VCEO (V)	IC (A)	Diode		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel	
				VF (V)	IF (A)		1	10	100		Qty.	Pricing
PNP Type												
DC-DC Converter	Mini 6P	15	2.5	.45	1.0	XN09D5700LCT-ND	.94	7.08	53.12	XN09D5700LTR-ND	3,000	307.00/M
			2.5	.45	0.7	XN09D5800LCT-ND	.93	6.95	52.12	XN09D5800LTR-ND	3,000	301.00/M
			1.5	.45	0.7	XN09D6100LCT-ND	.90	6.73	50.46	XN09D6100LTR-ND	3,000	292.00/M
	S-Mini 6P	50	0.1	1.2	0.1	XP0NG8A00LCT-ND◆	.51	4.04	30.34	XP0NG8A00LTR-ND◆	3,000	134.00/M
High Speed Switching	SS-Mini 5P	50	.08	.50	0.2	UP0KG8D00LCT-ND◆	.48	3.85	28.85	UP0KG8D00LTR-ND◆	8,000	123.00/M

◆ ***RoHS Compliant***

Panasonic® Transistors and MOSFETs

Dimensions in mm

TO-126

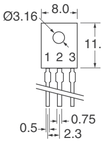

1. Emitter
2. Collector
3. Base

TO-220F
EIAJ:SC-67

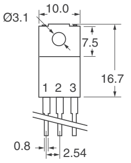

1. Base
2. Collector
3. Emitter

TO-220D

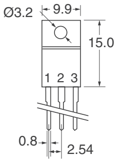

Transistors
1. Base
2. Collector
3. Emitter

Mosfets
1. Gate
2. Drain
3. Source

MT-4

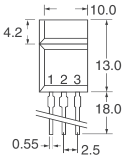

1. Base
2. Collector
3. Emitter

TO-92L

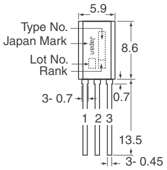

1. Emitter
2. Collector
3. Base

TO-92NL

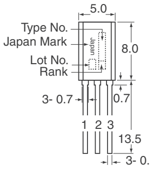

1. Emitter
2. Collector
3. Base

TO-92B1

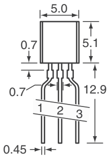

1. Emitter
2. Collector
3. Base

MT-1 Type

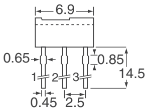

1. Emitter
2. Collector
3. Base

MT-2 Type

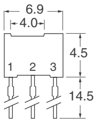

1. Emitter
2. Collector
3. Base

MT-3 Type

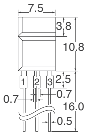

1. Emitter
2. Collector
3. Base

NEW S Type
NS-B1

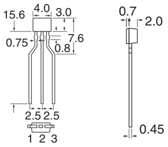

Transistors
1. Emitter
2. Collector
3. Base

Mosfets
1. Source
2. Gate
3. Drain

TOP-3F

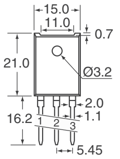

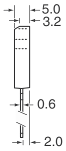

1. Base
2. Collector
3. Emitter

Transistors

Application	Package	V_{CEO} (V)	IC (A)	h_{FE}		Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Box	
				Minimum	Maximum		1	10	100		Qty.	Pricing
PNP Type												
AF Output Driver	TO-126	35	1	85	340	2SA08850R-ND◆	.63	5.25	42.04	—	—	—
AF Power Amp	TO-126	40	1.5	80	220	2SA08860Q-ND	.91	6.81	51.10	—	—	—
AF Power Amp	TO-126	18	1	130	280	2SA09000R-ND	1.13	9.38	75.06	—	—	—
AF Power Pre-Amp	TO-126	150	.05	130	330	2SA09140R-ND◆	1.35	11.29	90.28	—	—	—
AF Power Amp	TO-126	60	2	80	220	2SA1096AQ-ND	1.10	9.20	73.56	—	—	—
AF Output Driver	TO-126	100	.5	130	220	2SA07940R-ND◆	.95	7.10	53.28	—	—	—
AF Output Driver	TO-126	50	2	80	160	2SA10960Q-ND	1.10	9.20	73.56	—	—	—
AF Output Driver	TO-126	50	2	120	220	2SA10960R-ND	1.10	9.20	73.56	—	—	—
AF Amp	TO-126	400	.1	30	—	2SB1011-ND◆	.95	7.15	53.63	—	—	—
AF Driver	TO-220F	180	1	90	330	2SA1535AR-ND	1.16	9.67	77.38	—	—	—
Power Amp	TO-220F	60	4	120	250	2SB09420P-ND◆	1.42	11.34	85.04	—	—	—
Power Amp	TO-220F	80	4	120	250	2SB0942AP-ND◆	1.42	11.34	85.04	—	—	—
Power Switching	TO-220F	80	3	—	—	2SB09430P-ND	1.45	11.61	87.06	—	—	—
Power Switching	TO-220F	80	4	130	260	2SB09440P-ND◆	2.41	19.31	150.15	—	—	—
Power Switching	TO-220F	80	5	90	180	2SB09450Q-ND◆	2.22	17.77	133.30	—	—	—
Power Switching	TO-220F	80	7	130	260	2SB09460P-ND◆	2.49	19.92	149.39	—	—	—
Low Voltage Switch	TO-220F	40	10	130	260	2SB0947AP-ND◆	3.45	27.58	214.51	—	—	—
Low Voltage Switch	TO-220F	20	10	130	260	2SB09480P-ND◆	2.37	19.00	142.49	—	—	—
Low Voltage Switch	TO-220F	40	10	130	260	2SB0948AP-ND◆	2.37	19.00	142.49	—	—	—
Power Amp	TO-220F	60	2	2,000	5,000	2SB09490Q-ND§◆	1.07	8.91	71.28	—	—	—
Power Amp/Switching	TO-220F	80	2	1,000	10,000	2SB0949AQ-ND◆	1.16	9.62	77.00	—	—	—
Med. Speed Power Switch	TO-220F	60	8	4,000	10,000	2SB09510P-ND§◆	1.49	11.88	89.10	—	—	—
Med. Speed Switch	TO-220F	80	8	2,000	10,000	2SB0951AQ-ND◆	1.60	12.83	96.20	—	—	—
Low Voltage Switch	TO-220F	40	7	90	180	2SB0953AQ-ND◆	1.99	15.93	119.51	—	—	—
High Power Amp	TO-220F	100	5	100	200	2SB10630P-ND◆	1.61	12.87	96.53	—	—	—
Power Amp	TO-220F	100	5	5,000	15,000	2SB12520Q-ND◆	1.72	13.79	103.42	—	—	—
Power Amp	TO-220F	60	3	400	700	2SB12990P-ND◆	1.49	11.95	89.63	—	—	—
Power Amp	TO-220D	60	3	120	320	2SA20570P-ND◆	1.01	8.42	67.30	—	—	—
Power Amp	TO-220D	180	1.5	60	240	2SA21400P-ND◆	.83	6.96	55.66	—	—	—
Power Amp	TO-220D	180	1.5	60	240	2SA21400Q-ND◆	.83	6.96	55.66	—	—	—
General Amp	TO-220D	80	3	70	250	2SB1548AP-ND◆	.85	7.06	56.50	—	—	—
Power Amp	TO-220D	80	4	4,000	10,000	2SB1623AP-ND◆	2.41	19.31	150.15	—	—	—
Power Amp	MT-4	60	3	160	320	2SA20670PACT-ND†	1.06	8.85	70.82	2SA20670PATB-ND	1,000	471.00
Power Amp	MT-4	60	3	120	250	2SA20670QACT-ND†	1.06	8.85	70.82	2SA20670QATB-ND	1,000	471.00
Power Amp	MT-4	80	3	70	250	2SB1417APACT-ND†	1.15	9.62	76.98	2SB1417APATB-ND	1,000	512.00
Power Amp	MT-4	80	2	4,000	10,000	2SB1418APACT-ND†§◆	1.25	10.40	83.16	2SB1418APATB-ND§◆	1,000	553.00
Power Amp	MT-4	80	2	1,000	10,000	2SB1418AQACT-ND†◆	1.35	11.23	89.81	2SB1418AQATB-ND◆	1,000	597.00
AF Output Amp	TO-92L	25	1	120	240	2SA06830R-ND	.53	4.27	32.03	—	—	—
AF Output Amp	TO-92L	50	1	120	240	2SA06840R-ND◆	.58	4.61	34.60	—	—	—
AF Output Amp	TO-92L	50	1	170	340	2SA06840S-ND◆	.58	4.61	34.60	—	—	—
AF Output Amp	TO-92L	80	.5	90	155	2SA07770Q-ND◆	.93	6.97	52.26	—	—	—
AF Output Amp	TO-92L	80	.5	130	220	2SA07770R-ND	.88	6.58	49.37	—	—	—
General Amp	TO-92L	200	.07	60	150	2SA08790Q-ND	.93	7.73	61.86	—	—	—
AF Amp	TO-92L	20	5	120	205	2SB08730Q-ND	.98	7.38	55.33	—	—	—
AF Amp	TO-92L	20	5	180	625	2SB08730R-ND◆	.98	7.38	55.33	—	—	—
AF Output Amp	TO-92NL	50	1	120	240	2SA1534ARACT-ND†	.59	4.74	35.58	2SA1534ARATB-ND	3,000	158.00/M
AF Output Amp	TO-92NL	50	1	170	340	2SA1534ASACT-ND†◆	.59	4.74	35.58	2SA1534ASATB-ND◆	3,000	158.00/M
AF Output Amp	TO-92NL	50	.5	120	240	2SA1619ARACT-ND†	.54	4.31	32.31	—	—	—
AF Output Amp	TO-92NL	50	.5	170	340	2SA1619ASACT-ND†	.54	4.31	32.31	—	—	—
General Amp	TO-92NL	200	.07	60	150	2SB12210QACT-ND†	.93	7.71	61.67	—	—	—
AF Amp	TO-92NL	25	3	130	450	2SB15920RACT-ND†◆	.80	5.97	44.79	2SB15920RATB-ND◆	3,000	259.00/M
AF Output Amp	TO-92B1	50	.5	120	240	2SA07200RACT-ND†◆	.54	4.29	32.18	2SA07200RATB-ND◆	3,000	143.00/M
AF Output Amp	TO-92B1	70	.5	120	240	2SA0720ARACT-ND†◆	.55	4.14	31.03	2SA0720ARATB-ND◆	3,000	179.00/M
General Amp	TO-92B1	200	.07	100	220	2SA10180RACT-ND†◆	.73	5.47	41.02	2SA10180RATB-ND◆	3,000	237.00/M
AF HV Amp	TO-92B1	150	.05	130	220	2SA11230RACT-ND†◆	.64	4.78	35.85	2SA11230RATB-ND◆	3,000	207.00/M
AF Low Noise Amp	TO-92B1	55	.1	180	360	2SA11270RACT-ND†◆	.41	3.25	24.36	2SA11270RATB-ND◆	3,000	108.00/M
General Amp	TO-92B1	300	.07	60	150	2SA17670QACT-ND†◆	.58	4.32	32.41	2SA17670QATB-ND◆	3,000	187.00/M
AF Output Amp	TO-92B1	25	1	120	240	2SB06210RACT-ND†◆	.51	3.82	28.61	2SB06210RATB-ND◆	3,000	165.00/M
AF Output Amp	TO-92B1	50	1	120	240	2SB0621ARACT-ND†◆	.51	3.82	28.61	2SB0621ARATB-ND◆	3,000	165.00/M
General Amp	TO-92B1	25	.1	210	340	2SB07740RACT-ND†◆	.52	4.17	31.26	2SB07740RATB-ND◆	3,000	139.00/M
AF Output Amp	TO-92B1	18	5	180	625	2SB09760RACT-ND†◆	.66	4.96	37.23	2SB09760RATB-ND◆	3,000	215.00/M
General Amp	MT-1	50	.1	160	460	2SB1320A0ACT-ND†	.41	3.19	22.45	2SB1320A0ATB-ND	2,000	97.00/M

§ Darlington † Cut Tape Pricing ◆ ***RoHS Compliant***

(Continued)

Panasonic® Transistors and MOSFETs *(Cont.)*

Application	Package	V_{CEO} (V)	IC (A)	h_{FE}		Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Box	
				Minimum	Maximum		1	10	100		Qty.	Pricing
Low Freq. Amp	MT-1	50	.5	85	340	2SB1321A0ACT-ND†	.46	3.69	27.68	2SB1321A0ATB-ND	2,000	129.00/M
Low Freq. Output Amp	MT-2	80	1	170	340	2SA16740SACT-ND†	.64	4.81	36.09	2SA16740SATB-ND	2,000	213.00/M
Low Freq. Amp	MT-2	50	1	85	340	2SB1322A0ACT-ND†	.59	4.40	32.98	2SB1322A0ATB-ND	2,000	195.00/M
Low Freq. Amp	MT-2	25	5	90	135	2SB13980PACT-ND†	.82	6.85	54.78	2SB13980PATB-ND	2,000	364.00/M
Low Freq. Amp	MT-2	25	5	120	205	2SB13980QACT-ND†◆	.82	6.85	54.78	2SB13980QATB-ND◆	2,000	364.00/M
Low Freq. Amp	MT-2	50	2	120	340	2SB143400ACT-ND†	.68	5.12	38.43	2SB143400ATB-ND	2,000	227.00/M
AF Output Amp	MT-2	100	2	120	240	2SB14380RACT-ND†◆	.96	7.97	63.74	2SB14380RATB-ND◆	2,000	424.00/M
Low Freq. Output Amp	MT-2	50	5	120	240	2SB14460RACT-ND†◆	.92	6.93	51.95	2SB14460RATB-ND◆	2,000	307.00/M
Power Switching	MT-2	400	.5	80	160	2SB14880PACT-ND†	.85	6.35	47.64	2SB14880PATB-ND	2,000	282.00/M
AF High Power Drive	MT-3	150	1	130	220	2SB14140RACT-ND†◆	.97	8.08	64.66	2SB14140RATB-ND◆	1,000	430.00
Low Freq. Power Amp	MT-3	60	3	120	250	2SB14160RACT-ND†	.83	6.90	55.18	2SB14160RATB-ND	1,000	367.00
AF Output Amp	MT-3	50	2	120	240	2SB14350RACT-ND†◆	.79	6.55	52.40	2SB14350RATB-ND◆	1,000	348.00
Power Switching	MT-3	50	8	2,000	5,000	2SB15040QACT-ND†	1.43	11.46	85.94	2SB15040QATB-ND	1,000	745.00
Power Switching	MT-3	50	8	4,000	10,000	2SB15040RACT-ND†	1.43	11.46	85.94	2SB15040RATB-ND	1,000	745.00
Low Freq. Amp	NEW S Type	50	.1	160	460	2SA1309A0ACT-ND†	.33	2.58	18.18	2SA1309A0ATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	.5	85	340	2SB1030ACT-ND†	.47	3.92	31.36	2SB1030ATB-ND	5,000	118.00/M
Low Freq. Amp	NEW S Type	50	.1	160	260	2SA1309AQACT-ND†	.41	3.10	21.49	2SA1309AQATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	.1	210	340	2SA1309ARACT-ND†	.41	3.10	21.49	2SA1309ARATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	.1	290	460	2SA1309ASACT-ND†	.41	3.10	21.49	2SA1309ASATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	.5	120	240	2SB1030ARACT-ND†◆	.50	4.21	33.66	2SB1030ARATB-ND◆	5,000	107.00/M
High Power Amp	TOP-3F	100	5	100	200	2SB10540P-ND◆	2.76	22.06	171.61	—	—	—
Power Switching	TOP-3F	80	10	90	180	2SB11540Q-ND◆	3.62	28.96	225.23	—	—	—
Power Switching	TOP-3F	80	20	130	260	2SB11560P-ND◆	5.00	39.99	311.03	—	—	—
						NPN Type						
AF High Power Driver	TO-126	120	.5	65	330	2SC1567AR-ND◆	.70	5.27	39.50	—	—	—
Med. Power Amp	TO-126	18	1	90	280	2SC15680R-ND	.91	6.81	51.10	—	—	—
Med. Power Amp	TO-126	35	1	85	340	2SC18460S-ND◆	.55	4.09	30.60	—	—	—
Med. Power Amp	TO-126	40	1.5	80	220	2SC18470Q-ND◆	.85	6.35	47.60	—	—	—
AF Power Pre-Amp	TO-126	150	.05	130	330	2SC19530S-ND	1.24	10.32	82.54	—	—	—
TV Video Out Amp	TO-126	250	.1	40	—	2SC2258-ND	.77	5.77	43.30	—	—	—
AF Power Amp	TO-126	60	1.5	80	220	2SC2497AQ-ND	1.23	10.26	82.05	—	—	—
AF Power Amp	TO-126	120	.5	90	220	2SC25900Q-ND	.83	6.19	46.43	—	—	—
Video Amp	TO-126	50	.15	20	—	2SC3611-ND◆	.64	4.81	36.09	—	—	—
AF Output Driver	TO-126	100	.5	130	220	2SC15670R-ND◆	.70	5.27	39.51	—	—	—
AF Output Driver	TO-126	100	.5	185	330	2SC15670S-ND◆	.70	5.27	39.51	—	—	—
AF Output Driver	TO-126	50	1.5	80	160	2SC24970Q-ND	1.23	10.26	82.11	—	—	—
AF Output Driver	TO-126	50	1.5	120	220	2SC24970R-ND◆	1.23	10.26	82.11	—	—	—
Audio Output	TO-126	300	.1	50	250	2SC3063-ND◆	.66	4.97	37.31	—	—	—
AF Amp	TO-126	50	1	8,000	20,000	2SD0946AR-ND§◆	.82	6.83	54.65	—	—	—
AF Amp	TO-126	100	2	4,000	10,000	2SD16400Q-ND§◆	.97	7.27	54.50	—	—	—
AF Amp	TO-126	100	2	8,000	20,000	2SD16400R-ND§◆	.97	7.27	54.50	—	—	—
AF Amp	TO-126	60	1	—	—	2SD16450R-ND§	.89	7.42	59.33	—	—	—
HV High Speed Switch	TO-220F	800	3	6	—	2SC3743-ND◆	2.11	16.85	126.41	—	—	—
Color Chroma Output	TO-220F	300	.1	50	250	2SC3942-ND◆	.96	8.02	64.15	—	—	—
HV High Speed Switch	TO-220F	800	3	6	—	2SC3979-ND◆	2.30	18.39	137.90	—	—	—
HV High Speed Switch	TO-220F	800	3	6	—	2SC3979A-ND◆	2.37	19.00	142.49	—	—	—
HV High Speed Switch	TO-220F	800	1	3	—	2SC4004-ND◆	1.84	14.71	110.32	—	—	—
HV High Speed Switch	TO-220F	400	7	8	—	2SC4559-ND◆	1.46	11.64	87.33	—	—	—
Power Amp	TO-220F	250	.75	120	250	2SD12630P-ND◆	1.46	11.64	87.33	—	—	—
Power Amp	TO-220F	300	.75	70	150	2SD1263AQ-ND◆	1.46	11.64	87.33	—	—	—
Power Amp	TO-220F	60	3	120	250	2SD12660P-ND◆	1.01	8.43	67.42	—	—	—
Power Amp	TO-220F	80	3	120	250	2SD1266AP-ND◆	1.01	8.43	67.42	—	—	—
Power Amp	TO-220F	60	4	120	250	2SD12670P-ND◆	1.25	10.40	83.16	—	—	—
Power Amp	TO-220F	80	4	70	250	2SD1267AP-ND	1.35	11.23	89.80	—	—	—
Power Switching	TO-220F	80	3	130	260	2SD12680P-ND◆	1.38	11.49	91.93	—	—	—
Power Switching	TO-220F	80	4	130	260	2SD12690P-ND◆	2.30	18.39	137.90	—	—	—
Power Switching	TO-220F	80	5	130	260	2SD12700P-ND◆	2.34	18.69	140.19	—	—	—
Power Switching	TO-220F	80	7	130	260	2SD12710P-ND◆	1.49	11.88	89.10	—	—	—
Power Switching	TO-220F	100	7	45	260	2SD1271AP-ND◆	1.60	12.83	96.20	—	—	—
Power Amp	TO-220F	150	1	800	2,000	2SD12720P-ND◆	2.30	18.39	137.90	—	—	—
Power Amp	TO-220F	60	2	4,000	10,000	2SD12750P-ND§◆	1.00	8.32	66.53	—	—	—
Power Amp	TO-220F	80	2	1,000	10,000	2SD1275AP-ND§◆	1.08	8.98	71.90	—	—	—
Power Amp	TO-220F	80	4	1,000	10,000	2SD1276AP-ND§◆	1.28	10.64	85.12	—	—	—
Med. Speed Power Switch	TO-220F	60	8	4,000	10,000	2SD12770P-ND§◆	1.34	10.75	80.61	—	—	—
Med. Speed Switch	TO-220F	80	8	2,000	10,000	2SD1277AP-ND§◆	1.45	11.61	87.06	—	—	—
Low Voltage Switch	TO-220F	40	10	90	180	2SD1445AQ-ND◆	1.69	13.48	101.12	—	—	—
High DC Current Gain	TO-220F	60	6	300	2,000	2SD14740P-ND◆	1.44	11.55	86.60	—	—	—
High Power Amp	TO-220F	100	5	20	200	2SD14990P-ND	1.46	12.19	97.50	—	—	—
Power Amp	TO-220F	400	7	200	—	2SD1535-ND§◆	2.41	19.31	150.15	—	—	—
Power Switching	TO-220F	100	5	5,000	15,000	2SD16330P-ND§◆	1.88	15.02	112.62	—	—	—
Med. Speed Power Switch	TO-220F	120	8	1,000	20,000	2SD1773-ND§◆	2.11	16.85	126.41	—	—	—
Power Switching	TO-220F	60	4	70	250	2SD20000P-ND◆	.89	7.42	59.33	—	—	—
High Speed Switch	TO-220D	400	3	10	—	2SC4953-ND◆	1.28	10.26	76.98	—	—	—
Power Amp	TO-220D	60	3	—	—	2SC57390P-ND◆	.92	7.65	61.20	—	—	—
Power Amp	TO-220D	60	3	500	1,500	2SC59540Q-ND◆	1.03	8.62	68.95	—	—	—
Power Amp	TO-220D	180	1.5	60	240	2SC59930P-ND◆	.83	6.96	55.66	—	—	—
Power Amp	TO-220D	180	1.5	60	240	2SC59930Q-ND◆	.83	6.96	55.66	—	—	—
General Amp	TO-220D	80	3	70	250	2SD2374AP-ND◆	.77	6.42	51.30	—	—	—
High Gain	TO-220D	60	3	500	1,500	2SD23750P-ND◆	.97	8.06	64.49	—	—	—
Power Amp	TO-220D	80	4	4,000	10,000	2SD2420AP-ND§◆	2.30	18.39	137.90	—	—	—
High Gain	TO-220D	60	5	500	2,000	2SD2528-ND	1.28	10.26	76.98	—	—	—
Power Amp	MT-4	60	3	160	320	2SC57880PACT-ND†◆	.97	8.12	64.92	2SC57880PATB-ND◆	1,000	432.00
Power Amp	MT-4	60	3	120	250	2SC57880QACT-ND†	.97	8.12	64.92	2SC57880QATB-ND	1,000	432.00
Power Amp	MT-4	80	3	70	2,500	2SD2137APACT-ND†	1.08	8.98	71.86	2SD2137APATB-ND	1,000	478.00
Power Amp	MT-4	80	2	1,000	10,000	2SD2138AQACT-ND†	1.35	11.23	89.81	2SD2138AQATB-ND	1,000	597.00
Power Amp	MT-4	80	2	2,000	5,000	2SD2138APACT-ND†§◆	1.25	10.40	83.16	2SD2138APATB-ND§◆	1,000	553.00
High DC Current Gain	MT-4	60	3	500	2,500	2SD21390PACT-ND†	1.15	9.62	76.99	2SD21390PATB-ND	1,000	512.00
Power Amp	MT-4	60	4	4,000	10,000	2SD22420PACT-ND†§◆	1.76	14.10	105.72	2SD22420PATB-ND§◆	1,000	916.00
AF Amp	TO-92L	25	1	120	240	2SC13830R-ND◆	.57	4.55	34.13	—	—	—
AF Amp	TO-92L	25	1	170	340	2SC13830S-ND	.57	4.55	34.13	—	—	—
AF Amp	TO-92L	50	1	85	170	2SC13840Q-ND◆	.57	4.55	34.15	—	—	—
AF Amp	TO-92L	50	1	120	120	2SC13840R-ND◆	.57	4.55	34.15	—	—	—
AF Amp	TO-92L	50	1	170	340	2SC13840S-ND◆	.57	4.55	34.15	—	—	—
AF Output Amp	TO-92L	80	.5	130	220	2SC15090R-ND	.71	5.34	40.07	—	—	—
AF Output Amp	TO-92L	80	.5	185	330	2SC15090S-ND	.71	5.34	40.07	—	—	—
AF Output Amp	TO-92L	20	1	130	220	2SC15180R-ND	.98	7.35	55.12	—	—	—
General Amp	TO-92L	200	.07	60	150	2SC15730Q-ND	.62	4.63	34.71	—	—	—
General Amp	TO-92L	200	.07	100	220	2SC15730R-ND	.62	4.63	34.71	—	—	—
General Amp	TO-92L	300	.07	60	150	2SC1573AQ-ND	.52	3.92	29.37	—	—	—

§ Darlington † Cut Tape Pricing ◆ ***RoHS Compliant***

(Continued)

Panasonic® Transistors and MOSFETs *(Cont.)*

Application	Package	V_{CEO} (V)	IC (A)	h_{FE}		Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Box	
				Minimum	Maximum		1	10	100		Qty.	Pricing
General Amp	TO-92L	300	.07	100	220	2SC1573AR-ND◆	.52	3.92	29.37	—	—	—
General Amp	TO-92L	400	.07	60	150	2SC1573BQ-ND	.52	3.92	29.37	—	—	—
General Amp	TO-92L	400	.07	100	220	2SC1573BR-ND	.52	3.92	29.37	—	—	—
AF HV Amp	TO-92L	150	.05	130	220	2SC26320R-ND	.66	4.96	37.18	—	—	—
Video Amp	TO-92L	50	.15	20	—	2SC3526H-ND◆	1.53	12.26	91.93	—	—	—
AF Output Amp	TO-92L	20	5	230	380	2SD09660Q-ND◆	1.00	7.53	56.47	—	—	—
AF Amp	TO-92L	120	.5	130	220	2SD12110R-ND	.76	5.69	42.64	—	—	—
AF Output Amp	TO-92NL	80	.5	130	220	2SC39390RACT-ND†◆	.57	4.30	32.25	2SC39390RATB-ND◆	3,000	186.00/M
AF Output Amp	TO-92NL	80	.5	185	330	2SC39390SACT-ND†	.57	4.30	32.25	2SC39390SATB-ND	3,000	186.00/M
AF Output Amp	TO-92NL	25	1	120	240	2SC39400RACT-ND†	.54	4.34	32.57	2SC39400RATB-ND	3,000	144.00/M
AF Output Amp	TO-92NL	25	1	170	340	2SC39400SACT-ND†◆	.59	4.69	35.15	2SC39400SATB-ND◆	3,000	144.00/M
AF Output Amp	TO-92NL	50	1	85	170	2SC3940AQACT-ND†	.59	4.69	35.18	2SC3940AQATB-ND	3,000	156.00/M
AF Output Amp	TO-92NL	50	1	120	240	2SC3940ARACT-ND†	.59	4.69	35.18	2SC3940ARATB-ND	3,000	156.00/M
AF Output Amp	TO-92NL	50	1	170	340	2SC3940ASACT-ND†	.59	4.69	35.18	2SC3940ASATB-ND	3,000	156.00/M
General Amp	TO-92NL	300	.07	60	150	2SC39410QACT-ND†	.49	3.65	27.38	2SC39410QATB-ND	3,000	158.00/M
General Amp	TO-92NL	300	.07	100	220	2SC39410RACT-ND†	.49	3.65	27.38	2SC39410RATB-ND	3,000	158.00/M
AF Output Amp	TO-92NL	50	.5	120	240	2SC4208ARACT-ND†	.54	4.35	32.59	2SC4208ARATB-ND	3,000	144.00/M
AF Output Amp	TO-92B1	50	.5	120	240	2SC13180RACT-ND†◆	.48	3.86	28.96	2SC13180RATB-ND◆	3,000	128.00/M
AF Output Amp	TO-92B1	70	.5	120	240	2SC1318ARACT-ND†◆	.50	3.77	28.27	2SC1318ARATB-ND◆	3,000	163.00/M
General Amp	TO-92B1	200	.07	100	220	2SC14730RACT-ND†◆	.71	5.33	39.99	2SC14730RATB-ND◆	3,000	231.00/M
AF HV Amp	TO-92B1	150	.05	130	220	2SC26310RACT-ND†◆	.49	3.92	29.42	2SC26310RATB-ND◆	3,000	130.00/M
AF Amp	TO-92B1	50	.7	600	1,200	2SC29250SACT-ND†◆	.63	4.69	35.16	2SC29250SATB-ND◆	3,000	203.00/M
AF Output Amp	TO-92B1	25	1	120	240	2SD05920RACT-ND†◆	.50	3.77	28.27	2SD05920RATB-ND◆	3,000	163.00/M
AF Output Amp	TO-92B1	50	1	120	240	2SD0592ARACT-ND†◆	.50	3.77	28.27	2SD0592ARATB-ND◆	3,000	163.00/M
AF Power Amp	TO-92B1	20	5	340	600	2SD09650RACT-ND†◆	.59	4.72	35.39	2SD09650RATB-ND◆	3,000	157.00/M
AF Output Amp	TO-92B1	20	.5	200	350	2SD13020RACT-ND†◆	.46	3.68	27.58	2SD13020RATB-ND◆	3,000	122.00/M
AF Power Amp	TO-92B1	10	5	195	—	2SD250400ACT-ND†◆	.49	3.68	27.58	2SD250400ATB-ND◆	3,000	159.00/M
General Amp	MT-1	50	.1	160	460	2SD1991A0ACT-ND†	.36	2.80	19.69	2SD1991A0ATB-ND	2,000	85.00/M
General Amp	MT-1	50	.5	210	340	2SD1991ARACT-ND†	.36	2.80	19.69	2SD1991ARATB-ND	2,000	85.00/M
Low Freq. Amp	MT-1	20	.5	200	350	2SD19960RACT-ND†	.58	4.62	34.66	2SD19960RATB-ND	2,000	162.00/M
Low Freq. Amp	MT-1	20	.5	300	500	2SD19960SACT-ND†	.58	4.62	34.66	2SD19960SATB-ND	2,000	162.00/M
Low Freq. Amp	MT-1	20	.5	400	800	2SD19960TACT-ND†	.58	4.62	34.66	2SD19960TATB-ND	2,000	162.00/M
AF Output Amp	MT-2	80	1	120	240	2SC43910RACT-ND†◆	.50	3.73	27.99	2SC43910RATB-ND◆	2,000	165.00/M
General Amp	MT-2	300	.07	100	220	2SC54190RACT-ND†◆	.68	5.10	38.27	2SC54190RATB-ND◆	2,000	226.00/M
Low Freq. Amp	MT-2	50	1	120	240	2SD1994ARACT-ND†◆	.56	4.49	33.64	2SD1994ARATB-ND◆	2,000	157.00/M
Low Freq. Amp	MT-2	50	1	170	340	2SD1994ASACT-ND†◆	.56	4.49	33.64	2SD1994ASATB-ND◆	2,000	157.00/M
AF Output Amp	MT-2	100	2	8,000	20,000	2SD20670RACT-ND†◆	.80	6.70	53.63	2SD20670RATB-ND◆	2,000	357.00/M
Low Freq. Amp	MT-2	50	2	120	340	2SD217700ACT-ND†	.93	7.00	52.54	2SD217700ATB-ND	2,000	311.00/M
Low Freq. Amp	MT-2	60	2	120	340	2SD2177A0ACT-ND†	.93	7.00	52.54	2SD2177A0ATB-ND	2,000	311.00/M
Low Freq. Amp	MT-2	50	.1	170	340	2SD21770SACT-ND†	.89	6.70	50.28	2SD21770SATB-ND	2,000	297.00/M
AF Output Amp	MT-2	50	5	120	240	2SD21790RACT-ND†◆	.87	7.24	57.92	2SD21790RATB-ND◆	2,000	385.00/M
AF Output Amp	MT-2	150	1	120	240	2SD21840RACT-ND†◆	.81	6.74	53.93	2SD21840RATB-ND◆	2,000	359.00/M
AF Amp	MT-2	120	.5	130	220	2SD22250RACT-ND†◆	.68	5.10	38.27	2SD22250RATB-ND◆	2,000	226.00/M
AF Power Amp	MT-2	20	5	340	600	2SD22490RACT-ND†◆	.62	4.62	34.63	2SD22490RATB-ND◆	2,000	205.00/M
AF Amp	MT-2	50	1	8,000	20,000	2SD22580RACT-ND†◆	.56	4.23	31.72	2SD22580RATB-ND◆	2,000	187.00/M
AF Output Amp	MT-2	20	.7	1,000	2,500	2SD225900ACT-ND†◆	.51	3.82	28.61	2SD225900ATB-ND◆	2,000	169.00/M
AF Amp	MT-2	10	1	200	800	2SD235800ACT-ND†◆	.80	5.98	44.82	2SD235800ATB-ND◆	2,000	265.00/M
AF Amp	MT-2	50	.5	8,000	20,000	2SD25980RACT-ND†	.56	4.51	33.86	2SD25980RATB-ND	2,000	158.00/M
AF Output Amp	MT-3	50	1	120	240	2SD21330RACT-ND†	.72	5.39	40.40	2SD21330RATB-ND	1,000	239.00
AF Output Amp	MT-3	50	1	170	340	2SD21330SACT-ND†	.72	5.39	40.40	2SD21330SATB-ND	1,000	239.00
AF High Power Driver	MT-3	150	1	130	220	2SD21340RACT-ND†	.82	6.82	54.56	2SD21340RATB-ND	1,000	363.00
Power Amp	MT-3	60	3	70	150	2SD21360QACT-ND†	.99	7.39	55.44	2SD21360QATB-ND	1,000	328.00
Power Amp	MT-3	60	3	120	250	2SD21360RACT-ND†◆	.74	6.16	49.28	2SD21360RATB-ND◆	1,000	328.00
AF Output Amp	MT-3	50	2	120	240	2SD21780RACT-ND†	.83	6.24	46.78	2SD21780RATB-ND	1,000	277.00
AF Output Amp	MT-3	50	2	170	340	2SD21780SACT-ND†	.83	6.24	46.78	2SD21780SATB-ND	1,000	277.00
AF Amp	MT-3	80	1	8,000	20,000	2SD22200RACT-ND†◆	.77	6.41	51.32	2SD22200RATB-ND◆	1,000	341.00
AF Amp	MT-3	100	2	8,000	20,000	2SD24790RACT-ND†	.96	8.02	64.15	2SD24790RATB-ND	1,000	427.00
Power Amp	MT-3	60	3	800	1,500	2SD25730QACT-ND†◆	.92	7.70	61.59	2SD25730QATB-ND◆	1,000	410.00
Low Freq. Amp	NEW S Type	50	.1	160	460	2SC3311A0ACT-ND†	.33	2.58	18.18	2SC3311A0ATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	.5	85	340	2SD1423ACT-ND†	.48	3.98	31.81	2SD1423ATB-ND	5,000	119.00/M
Low Freq. Amp	NEW S Type	20	.5	200	800	2SD145000ACT-ND†	.42	3.37	25.25	2SD145000ATB-ND	5,000	107.00/M
Low Freq. Amp	NEW S Type	50	.1	160	260	2SC3311AQACT-ND†	.41	3.10	21.49	2SC3311AQATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	.1	210	340	2SC3311ARACT-ND†◆	.41	3.10	21.49	2SC3311ARATB-ND◆	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	.1	290	460	2SC3311ASACT-ND†◆	.41	3.10	21.49	2SC3311ASATB-ND◆	5,000	70.00/M
Low Freq. Amp	NEW S Type	20	.5	200	350	2SD14500RACT-ND†	.50	4.21	33.66	2SD14500RATB-ND	5,000	107.00/M
Low Freq. Amp	NEW S Type	20	.5	300	500	2SD14500SACT-ND†	.50	4.21	33.66	2SD14500SATB-ND	5,000	107.00/M
Low Freq. Amp	NEW S Type	20	.5	400	800	2SD14500TACT-ND†	.50	4.21	33.66	2SD14500TATB-ND	5,000	107.00/M
Low Freq. Amp	NEW S Type	50	.5	120	240	2SD1423ARACT-ND†◆	.50	4.21	33.66	2SD1423ARATB-ND◆	5,000	107.00/M
AF Amp	NS-B1	55	.1	180	360	2SC33120RACT-ND†◆	.43	3.60	28.80	2SC33120RATB-ND◆	5,000	108.00/M
AF Power Amp	NS-B1	20	5	340	600	2SD23210RACT-ND†◆	.59	4.72	35.39	2SD23210RATB-ND◆	5,000	150.00/M
HV High Speed Switch	TOP-3F	800	3	6	—	2SC3506-ND◆	4.48	35.85	278.86	—	—	—
HV High Speed Switch	TOP-3F	800	5	6	—	2SC3507-ND◆	4.65	37.23	289.58	—	—	—
HV High Speed Switch	TOP-3F	500	7	8	—	2SC3974-ND◆	4.65	37.23	289.58	—	—	—
HV High Speed Switch	TOP-3F	500	10	8	—	2SC3975-ND◆	5.52	44.13	343.21	—	—	—
HV High Speed Switch	TOP-3F	800	3	6	—	2SC4420-ND◆	2.52	20.13	156.59	—	—	—
HV High Speed Switch	TOP-3F	800	1	3	—	2SC4960-ND◆	2.41	19.31	150.15	—	—	—
High Power Amp	TOP-3F	100	5	100	200	2SD14850P-ND◆	2.59	20.68	160.88	—	—	—
Power Switching	TOP-3F	80	10	130	260	2SD17050P-ND◆	3.96	31.72	246.68	—	—	—
Power Switching	TOP-3F	80	20	130	260	2SD17070P-ND◆	5.17	41.37	321.76	—	—	—
High Power Amp	TOP-3F	120	6	80	160	2SD20640S-ND◆	3.69	29.51	229.52	—	—	—

§ Darlington † Cut Tape Pricing ◆ ***RoHS Compliant***

Power MOSFETs

Package	VDSS (V)	VGSS (V)	ID (A)	RDS (on) Type (Ω)	Digi-Key Part No.	Pricing				
						1	10	100	500	1,000
N-Channel Type										
TO-220D	450	30	5	1.0	2SK3043-ND◆	1.83	14.63	109.70	493.65	950.73
	450	30	7	.56	2SK3044-ND	2.47	19.73	147.97	665.86	1282.40
	500	30	2.5	3.2	2SK3045-ND	1.54	12.32	92.38	415.71	800.62
	500	30	7	0.7	2SK3046-ND	2.41	19.25	144.34	649.53	1250.95
	800	30	2	4.8	2SK3047-ND◆	1.86	14.88	111.62	502.31	967.41
	600	30	3	1.7	2SK3048-ND◆	1.80	14.37	107.78	484.99	934.05
	200	30	22	.048	2SK3892-ND◆	4.48	35.85	278.86	1294.70	2539.60
TOP-3F	600	30	15	.33	2SK3318-ND◆	7.35	58.84	496.43	2335.05	4596.56
P-Channel Type — RoHS Compliant										
NS-B1	65‡	—	.02	300	2SJ01640RACT-ND†	.45	3.62	27.12	75.03	126.56
	65‡	—	.02	300	2SJ01640RATB-ND§			575.00/5,000		

‡ VGDS † Cut Tape § Tape and Box ◆ ***RoHS Compliant***

Surface Mount MOSFETs

Dim. in mm

Mini Power Type Package

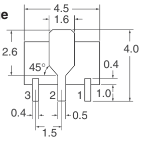

1. Gate
2. Drain
3. Source

Mini Type Package (3-pin)

A
1. Gate
2. Source
3. Drain

B
1. Source
2. Drain
3. Gate

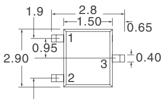

Mini Type Package (5-pin)

A
1. Drain(FET1)
2. Drain (FET2)
3. Gate (FET2)
4. Source
5. Gate(FET1)

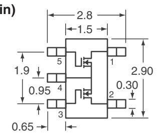

B
1. Cathode
2. Drain
3. Gate
4. Source
5. Anode

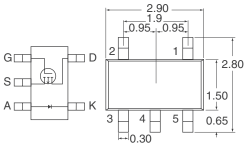

S-Mini Type Package (3-pin)

A
1. Gate
2. Source
3. Drain

B
1. Source
2. Drain
3. Gate

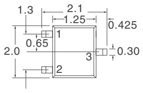

S-Mini Type Package (5-pin)

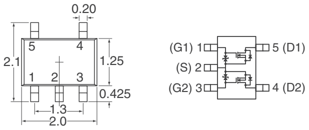

S-Mini Type Package (6-pin)

1. Source
2. Gate
3. Drain
4. Source
5. Gate
6. Source

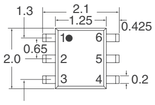

SS-Mini Type Package (3-Pin)

A
1. Gate
2. Source
3. Drain

B
1. Source
2. Drain
3. Gate

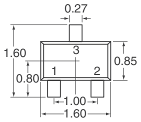

SS-Mini Type Package (5-pin)

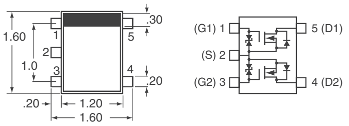

SS-Mini Type Package (6-Pin)

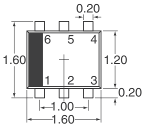

UP0487800 / UP0487C00

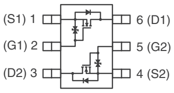

UP0497900

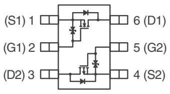

SSS-Mini Type Package (3-Pin)

A
1. Drain
2. Source
3. Gate

B
1. Gate
2. Source
3. Drain

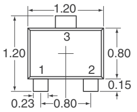

WMini8 ***NEW!***

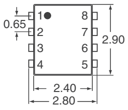

A

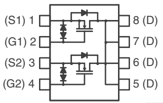

B

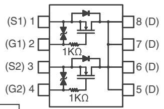

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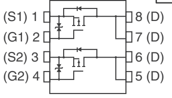

WSMini6 ***NEW!***

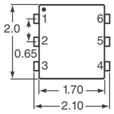

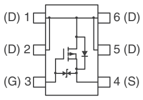

WSSMini6 ***NEW!***

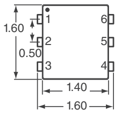

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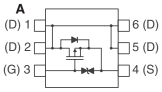

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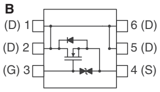

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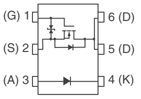

SO8 ***NEW!***

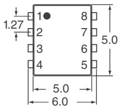

A

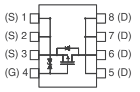

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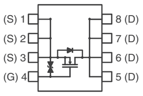

U-G2 Type

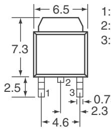

1: Gate
2: Drain
3: Source

Package	Pin Layout	VDS (V)	ID (mA)	RDS (on) (Ω)	PD Max. (mW)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Small Signal/Switching MOSFET — N-Channel Type												
Mini Power	—	80†	500	2	1,000	2SK060100LCT-ND◆	1.19	9.94	79.52	2SK060100LTR-ND◆	1,000	529.00
Mini Power	—	30†	1,000	.48	1,000	2SK221100LCT-ND◆	.60	4.49	33.71	2SK221100LTR-ND◆	1,000	199.00
Mini 3P	A	50†	500	27	150	2SK122800LCT-ND◆	.51	4.29	34.29	2SK122800LTR-ND◆	3,000	137.00/M
Mini 3P	B	30	20	—	150	2SK01980RLCT-ND◆	.81	6.07	45.51	2SK01980RLTR-ND◆	3,000	263.00/M
Mini 3P	B	65	20	300	150	2SK11030QLCT-ND◆	.49	3.92	29.42	2SK11030QLTR-ND◆	3,000	130.00/M
Mini 3P	B	40	10	—	200	2SK275100LCT-ND◆	.45	3.75	30.03	2SK275100LTR-ND◆	3,000	120.00/M
Mini 5P	A	50	100	50	300	XN0187200LCT-ND◆	.97	7.31	54.81	XN0187200LTR-ND◆	3,000	317.00/M
S-Mini 3P	A	50†	100	50	150	2SK066400LCT-ND◆	.63	4.73	35.51	2SK066400LTR-ND◆	3,000	205.00/M
S-Mini 3P	A	20	100	50	150	2SK066500LCT-ND◆	.61	4.55	34.13	2SK066500LTR-ND◆	3,000	197.00/M
S-Mini 3P	A	50	50	27	150	2SK137400LCT-ND◆	.73	5.47	41.02	2SK137400LTR-ND◆	3,000	237.00/M
S-Mini 3P	A	30†	1,000	30	150	2SK306400LCT-ND	.46	3.84	30.69	2SK306400LTR-ND	3,000	123.00/M
S-Mini 3P	A	50†	1,000	8/6	150	2SK353900LCT-ND◆	.43	3.42	25.67	2SK353900LTR-ND◆	3,000	114.00/M
S-Mini 3P	A	20†	4,500	.02	500	MTM232230LCT-ND◆	.81	6.07	45.51	MTM232230LTR-ND◆	3,000	263.00/M
S-Mini 3P	B	30	20	—	150	2SK06620RLCT-ND◆	1.02	8.50	68.03	2SK06620RLTR-ND◆	3,000	442.00/M
S-Mini 3P	B	55	30	—	150	2SK06630RLCT-ND◆	.49	3.92	29.42	2SK06630RLTR-ND◆	3,000	130.00/M
S-Mini 5P	—	50†	100	8/6	150	XP0187800LCT-ND◆	.63	4.71	35.35	XP0187800LTR-ND◆	3,000	204.00/M
S-Mini 6P	—	50†	1,000	8/6	150	XP0487800LCT-ND	.68	5.09	38.18	XP0487800LTR-ND	3,000	221.00/M
SS-Mini 3P	A	50	100	8/6	125	2SK3546J0LCT-ND◆	.43	3.44	25.82	2SK3546J0LTR-ND◆	3,000	114.00/M
SS-Mini 3P	B	55	30	—	125	2SK2593JQLCT-ND◆	.54	4.29	32.18	2SK2593JQLTR-ND◆	3,000	143.00/M
SS-Mini 5P	—	30	100	7/5	125	UP0187B00LCT-ND◆	.62	4.68	35.08	UP0187B00LTR-ND◆	8,000	199.00/M
SS-Mini 6P	—	50†	100	8/6	125	UP0487800LCT-ND◆	.71	5.33	39.96	UP0487800LTR-ND◆	8,000	226.00/M
SS-Mini 6P	—	50†	100	8/6	125	UP0497900LCT-ND◆	.71	5.33	39.96	UP0497900LTR-ND◆	8,000	226.00/M
SS-Mini 6P	—	20†	100	6	125	UP0487C00LCT-ND◆	.57	4.27	32.06	UP0487C00LTR-ND◆	8,000	182.00/M
SSS-Mini 3P	A	20*	.1	—	100	2SK33720RLCT-ND◆	.53	4.26	31.97	2SK33720RLTR-ND◆	10,000	133.00/M
SSS-Mini 3P	A	20*	.135	—	100	2SK33720SLCT-ND◆	.53	4.26	31.97	2SK33720SLTR-ND◆	10,000	133.00/M
SSS-Mini 3P	A	20*	.180	—	100	2SK33720TLCT-ND◆	.53	4.26	31.97	2SK33720TLTR-ND◆	10,000	133.00/M
SSS-Mini 3P	A	20*	.290	—	100	2SK33720ULCT-ND◆	.53	4.26	31.97	2SK33720ULTR-ND◆	10,000	133.00/M
SSS-Mini 3P	A	20*	2	—	100	2SK34260TLCT-ND◆	.52	3.91	29.30	2SK34260TLTR-ND◆	10,000	163.00/M
SSS-Mini 3P	A	50	100	8/6	100	2SK354700LCT-ND◆	.48	3.83	28.69	2SK354700LTR-ND◆	10,000	120.00/M
WMini8	A	20†	7,000	.015	1,000	MTMC8E280LBFCT-ND◆ ***NEW!***	1.02	8.54	68.31	MTMC8E280LBFTR-ND◆ ***NEW!***	3,000	443.99/M
WMini8	B	20†	7,000	.015	1,000	MTMC8E2A0LBFCT-ND◆ ***NEW!***	1.02	8.54	68.31	MTMC8E2A0LBFTR-ND◆ ***NEW!***	3,000	443.99/M
WSSMini6	B	20†	2,200	.08	540	MTM862270LBFCT-ND◆ ***NEW!***	.82	6.15	46.11	MTM862270LBFTR-ND◆ ***NEW!***	10,000	256.15/M
WSSMini6	C	20†	2,200	.08	540	MTM867270LBFCT-ND◆ ***NEW!***	.87	6.56	49.18	MTM867270LBFTR-ND◆ ***NEW!***	10,000	273.23/M
SO8	B	30†	18,000	.0065	1000	MTMF82310BBFCT-ND◆ ***NEW!***	2.05	16.39	122.95	MTMF82310BBFTR-ND◆ ***NEW!***	3,000	1049.18/M
U-G2	—	60†	5,000	.09	10,000	2SK302200LCT-ND◆	1.26	10.11	75.84	2SK302200LTR-ND◆	3,000	647.00/M
U-G2	—	60†	30,000	.025	25,000	2SK302500LCT-ND◆	2.76	22.06	171.61	2SK302500LTR-ND◆	3,000	1544.00/M
U-G2	—	100†	8,000	.15	15,000	2SK303000LCT-ND◆	1.46	11.64	87.33	2SK303000LTR-ND◆	3,000	745.00/M
U-G2	—	100†	15,000	.09	20,000	2SK303100LCT-ND◆	1.76	14.10	105.72	2SK303100LTR-ND◆	3,000	902.00/M
U-G2	—	100†	15,000	.07	20,000	2SK326800LCT-ND◆	2.31	18.48	143.72	2SK326800LTR-ND◆	3,000	1293.00/M
U-G2	—	200†	2,500	1.2	10,000	2SK327700LCT-ND◆	1.26	10.11	75.84	2SK327700LTR-ND◆	3,000	647.00/M
Small Signal/Switching MOSFET — P-Channel Type — RoHS Compliant												
Mini 3P	B	65	10	300	150	2SJ01630RLCT-ND	.66	4.96	37.23	2SJ01630RLTR-ND	3,000	215.00/M
Mini 5P	B	12†	1,200	.35	600	XN0NE9200LCT-ND	.77	5.78	43.32	XN0NE9200LTR-ND	3,000	250.00/M
S-Mini 3P	A	65	20	—	150	2SJ03640QLCT-ND	.70	5.27	39.53	2SJ03640QLTR-ND	3,000	228.00/M
S-Mini 3P	A	30†	100	50	150	2SJ053600LCT-ND	.48	3.98	31.87	2SJ053600LTR-ND	3,000	127.00/M
S-Mini 3P	A	12†	4,000	.03	500	MTM231100LCT-ND	1.15	9.58	76.61	MTM231100LTR-ND	3,000	498.00/M
S-Mini 3P	A	20†	3,000	.04	500	MTM231230LCT-ND	.78	5.88	44.13	MTM231230LTR-ND	3,000	255.00/M
SSS-Mini 3P	B	30†	100	13	100	2SJ067400LCT-ND	.43	3.60	28.80	2SJ067400LTR-ND	10,000	101.00/M
WMini8	C	12†	4,800	.032	1,000	MTM684100LBFCT-ND ***NEW!***	1.02	8.54	68.31	MTM684100LBFTR-ND ***NEW!***	3,000	443.99/M
WSMini6	—	12†	4,000	.03	700	MTM761100LBFCT-ND ***NEW!***	.82	6.15	46.11	MTM761100LBFTR-ND ***NEW!***	3,000	266.40/M
WSMini6	—	20†	3,000	.036	700	MTM761230LBFCT-ND ***NEW!***	.82	6.15	46.11	MTM761230LBFTR-ND ***NEW!***	3,000	266.40/M
WSSMini6	A	20†	2,000	.08	540	MTM861270LBFCT-ND ***NEW!***	.82	6.15	46.11	MTM861270LBFTR-ND ***NEW!***	10,000	256.15/M
SO8	A	40†	7,000	.019	2000	MTM981400BBFCT-ND ***NEW!***	2.05	16.39	122.95	MTM981400BBFTR-ND ***NEW!***	3,000	1049.18/M
U-G2	—	200†	2,000	1.5	10,000	2SJ058200LCT-ND	1.49	11.95	89.63	2SJ058200LTR-ND	3,000	765.00/M

† VDSS * VDSO ◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® PNP/NPN Transistors

NS-B1 Type

Through-hole with built-in resistors for preset gains

VCEO = 50V/-50V

PT = 300mW

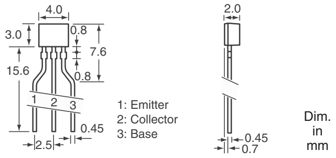

Res. Value		hFE min.	IC	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Box Pricing
RB KΩ	RBE KΩ	Vce=10V	(mA)	Part No.	1	10	100	Part No.	5,000
PNP									
10	10	35	100	UNR411100ACT-ND	.42	3.50	28.04	UNR411100ATB-ND	105.00/M
10	47	80	100	UNR411400ACT-ND	.42	3.50	28.04	UNR411400ATB-ND	105.00/M
4.7	—	210	100	UNR41160RACT-ND	.42	3.50	28.04	UNR41160RATB-ND	105.00/M
0.51	5.1	20	100	UNR411800ACT-ND	.42	3.50	28.04	UNR411800ATB-ND	105.00/M
1	10	30	100	UNR411900ACT-ND	.42	3.50	28.04	UNR411900ATB-ND	105.00/M
47	22	60	100	UNR411E00ACT-ND	.42	3.50	28.04	UNR411E00ATB-ND	105.00/M
2.2	10	30	100	UNR411H00ACT-ND	.42	3.50	28.04	UNR411H00ATB-ND	105.00/M
2.2	2.2	40	500	UNR412100ACT-ND	.52	4.14	31.03	UNR412100ATB-ND	132.00/M
4.7	4.7	50	500	UNR412200ACT-ND	.52	4.14	31.03	UNR412200ATB-ND	132.00/M
10	10	60	500	UNR412300ACT-ND	.52	4.14	31.03	UNR412300ATB-ND	132.00/M
NPN									
47	—	210	100	UNR42100RACT-ND	.42	3.50	28.04	UNR42100RATB-ND	105.00/M
10	10	35	100	UNR421100ACT-ND	.42	3.50	28.04	UNR421100ATB-ND	105.00/M
22	22	60	100	UNR421200ACT-ND	.42	3.50	28.04	UNR421200ATB-ND	105.00/M
10	47	80	100	UNR421400ACT-ND	.42	3.50	28.04	UNR421400ATB-ND	105.00/M
4.7	—	210	100	UNR42160RACT-ND	.42	3.50	28.04	UNR42160RATB-ND	105.00/M
22	—	210	100	UNR42170RACT-ND	.42	3.50	28.04	UNR42170RATB-ND	105.00/M
1	10	30	100	UNR421900ACT-ND	.42	3.50	28.04	UNR421900ATB-ND	105.00/M
47	10	30	100	UNR421D00ACT-ND	.42	3.50	28.04	UNR421D00ATB-ND	105.00/M
4.7	10	30	100	UNR421F00ACT-ND	.42	3.50	28.04	UNR421F00ATB-ND	105.00/M
10	4.7	20	100	UNR421K00ACT-ND	.42	3.50	28.04	UNR421K00ATB-ND	105.00/M
4.7	4.7	20	100	UNR421L00ACT-ND	.42	3.50	28.04	UNR421L00ATB-ND	105.00/M
2.2	2.2	40	500	UNR422100ACT-ND	.52	4.14	31.03	UNR422100ATB-ND	132.00/M
4.7	4.7	50	500	UNR422200ACT-ND	.52	4.14	31.03	UNR422200ATB-ND	132.00/M

NEW S Type

VCEO = 50V/-50V

PT = 300mW

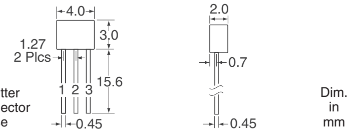

Res. Value		hFE min.	IC	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Box Pricing
RB KΩ	RBE KΩ	VCE= 10V Ic=5mA	(mA)	Part No.	1	10	100	Part No.	5,000
PNP									
22	22	60	100	UNR411200ACT-ND	.45	3.79	30.28	UNR411200ATB-ND	114.00/M
47	47	80	100	UNR411300ACT-ND	.45	3.79	30.28	UNR411300ATB-ND	114.00/M
4.7	10	30	100	UNR411F00ACT-ND	.45	3.79	30.28	UNR411F00ATB-ND	114.00/M
4.7	4.7	20	100	UNR411L00ACT-ND	.45	3.79	30.28	UNR411L00ATB-ND	114.00/M
2.2	10	60‡	500	UNR412400ACT-ND	.56	4.47	33.51	UNR412400ATB-ND	142.00/M
NPN									
47	47	80	100	UNR421300ACT-ND	.45	3.79	30.28	UNR421300ATB-ND	114.00/M
0.51	5.1	20	100	UNR421800ACT-ND	.45	3.79	30.28	UNR421800ATB-ND	114.00/M
10	10	60‡	500	UNR422300ACT-ND	.56	4.47	33.51	UNR422300ATB-ND	142.00/M
2.2	10	60‡	500	UNR422400ACT-ND	.56	4.47	33.51	UNR422400ATB-ND	142.00/M

‡ **IC** = 100mA

Mini Type

Surface Mount with built-in resistors for preset gains

VCEO = 50V/-50V **PT = 200mW**
IC = 100mA/-100mA **JEDEC: TO-236**
EIAJ: SC-59A

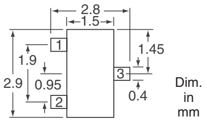

Resistance Value		hFE min	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel	
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	Qty.	Pricing
PNP									
10	10	35	UNR211100LCT-ND◆	.37	2.79	19.36	UNR211100LTR-ND◆	3,000	74.00/M
22	22	60	UNR211200LCT-ND◆	.37	2.79	19.36	UNR211200LTR-ND◆	3,000	74.00/M
47	47	80	UNR211300LCT-ND	.37	2.79	19.36	UNR211300LTR-ND	3,000	74.00/M
10	47	80	UNR211400LCT-ND◆	.37	2.79	19.36	UNR211400LTR-ND◆	3,000	74.00/M
10	∞	160	UNR211500LCT-ND◆	.37	2.79	19.36	UNR211500LTR-ND◆	3,000	74.00/M
4.7	∞	160	UNR211600LCT-ND◆	.37	2.79	19.36	UNR211600LTR-ND◆	3,000	74.00/M
22	∞	160	UNR211700LCT-ND	.37	2.79	19.36	UNR211700LTR-ND	3,000	74.00/M
0.51	5.1	20	UNR211800LCT-ND	.37	2.79	19.36	UNR211800LTR-ND	3,000	74.00/M
1	10	30	UNR211900LCT-ND	.37	2.79	19.36	UNR211900LTR-ND	3,000	74.00/M
47	∞	160	UNR211000LCT-ND	.37	2.79	19.36	UNR211000LTR-ND	3,000	74.00/M
47	10	30	UNR211D00LCT-ND	.37	2.79	19.36	UNR211D00LTR-ND	3,000	74.00/M
47	22	60	UNR211E00LCT-ND	.37	2.79	19.36	UNR211E00LTR-ND	3,000	74.00/M
4.7	10	30	UNR211F00LCT-ND◆	.37	2.79	19.36	UNR211F00LTR-ND◆	3,000	74.00/M
2.2	10	30	UNR211H00LCT-ND	.37	2.79	19.36	UNR211H00LTR-ND	3,000	74.00/M
4.7	4.7	20	UNR211L00LCT-ND◆	.37	2.79	19.36	UNR211L00LTR-ND◆	3,000	74.00/M
2.2	47	80	UNR211M00LCT-ND	.37	2.79	19.36	UNR211M00LTR-ND	3,000	74.00/M
4.7	47	80	UNR211N00LCT-ND	.37	2.79	19.36	UNR211N00LTR-ND	3,000	74.00/M
2.2	2.2	6	UNR211V00LCT-ND	.37	2.79	19.36	UNR211V00LTR-ND	3,000	74.00/M
0.27	5	20‡	UNR212X00LCT-ND	.56	4.51	33.86	UNR212X00LTR-ND	3,000	150.00/M
2.2	2.2	40	UNR212100LCT-ND	.59	4.68	35.12	UNR212100LTR-ND	3,000	156.00/M
4.7	4.7	50	UNR212200LCT-ND◆	.59	4.68	35.12	UNR212200LTR-ND◆	3,000	156.00/M
10	10	60	UNR212300LCT-ND	.59	4.68	35.12	UNR212300LTR-ND	3,000	156.00/M
2.2	10	60	UNR212400LCT-ND	.59	4.68	35.12	UNR212400LTR-ND	3,000	156.00/M

Resistance Value		hFE min	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel	
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	Qty.	Pricing
NPN									
10	10	35	UNR221100LCT-ND◆	.37	2.79	19.36	UNR221100LTR-ND◆	3,000	74.00/M
22	22	60	UNR221200LCT-ND◆	.37	2.79	19.36	UNR221200LTR-ND◆	3,000	74.00/M
47	47	80	UNR221300LCT-ND	.37	2.79	19.36	UNR221300LTR-ND	3,000	74.00/M
10	47	80	UNR221400LCT-ND◆	.37	2.79	19.36	UNR221400LTR-ND◆	3,000	74.00/M
10	∞	160	UNR221500LCT-ND◆	.37	2.79	19.36	UNR221500LTR-ND◆	3,000	74.00/M
4.7	∞	160	UNR221600LCT-ND◆	.37	2.79	19.36	UNR221600LTR-ND◆	3,000	74.00/M
22	∞	160	UNR221700LCT-ND	.37	2.79	19.36	UNR221700LTR-ND	3,000	74.00/M
0.51	5.1	20	UNR221800LCT-ND	.37	2.79	19.36	UNR221800LTR-ND	3,000	74.00/M
1	10	30	UNR221900LCT-ND◆	.37	2.79	19.36	UNR221900LTR-ND◆	3,000	74.00/M
47	∞	160	UNR221000LCT-ND◆	.37	2.79	19.36	UNR221000LTR-ND◆	3,000	74.00/M
47	10	30	UNR221D00LCT-ND	.37	2.79	19.36	UNR221D00LTR-ND	3,000	74.00/M
47	22	60	UNR221E00LCT-ND◆	.37	2.79	19.36	UNR221E00LTR-ND◆	3,000	74.00/M
4.7	10	30	UNR221F00LCT-ND	.37	2.79	19.36	UNR221F00LTR-ND	3,000	74.00/M
10	4.7	20	UNR221K00LCT-ND◆	.37	2.79	19.36	UNR221K00LTR-ND◆	3,000	74.00/M
4.7	4.7	20	UNR221L00LCT-ND	.37	2.79	19.36	UNR221L00LTR-ND	3,000	74.00/M
2.2	47	80	UNR221M00LCT-ND◆	.37	2.79	19.36	UNR221M00LTR-ND◆	3,000	74.00/M
4.7	47	80	UNR221N00LCT-ND	.37	2.79	19.36	UNR221N00LTR-ND	3,000	74.00/M
22	47	80	UNR221T00LCT-ND	.36	2.69	18.65	UNR221T00LTR-ND	3,000	72.00/M
2.2	2.2	6	UNR221V00LCT-ND	.37	2.79	19.36	UNR221V00LTR-ND	3,000	74.00/M
2.2	2.2	40	UNR222100LCT-ND	.54	4.33	32.45	UNR222100LTR-ND	3,000	144.00/M
4.7	4.7	50	UNR222200LCT-ND	.54	4.33	32.45	UNR222200LTR-ND	3,000	144.00/M
10	10	60	UNR222300LCT-ND◆	.44	3.49	26.15	UNR222300LTR-ND◆	3,000	116.00/M
2.2	10	60	UNR222400LCT-ND◆	.54	4.33	32.45	UNR222400LTR-ND◆	3,000	144.00/M
4.7	∞	100	UNR222600LCT-ND	.44	3.49	26.15	UNR222600LTR-ND	3,000	116.00/M
1	47	800	UNR723100LCT-ND†	.66	4.94	37.05	UNR723100LTR-ND†	1,000	219.00

† **Mini Power Type: VCE0** = 20V **IC** = 700mA **PT** = 1000mW ‡ **IC** = 500mA ◆ ***RoHS Compliant***

S-Mini Type

Surface Mount with built-in resistors for preset gains

VCEO = 50V/-50V **PT = 150mW**
IC = 100mA/-100mA **EIAJ: SC-70**

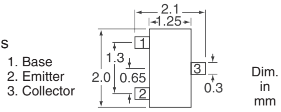

Resistance Value		hFE min	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel Pricing
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	3,000
PNP								
10	10	35	UNR511100LCT-ND◆	.40	2.97	20.60	UNR511100LTR-ND◆	79.00/M
22	22	60	UNR511200LCT-ND	.40	2.97	20.60	UNR511200LTR-ND	79.00/M
47	47	80	UNR511300LCT-ND	.40	2.97	20.60	UNR511300LTR-ND	79.00/M
10	47	80	UNR511400LCT-ND	.40	2.97	20.60	UNR511400LTR-ND	79.00/M
10	∞	160	UNR511500LCT-ND◆	.40	2.97	20.60	UNR511500LTR-ND◆	79.00/M
4.7	∞	160	UNR511600LCT-ND	.40	2.97	20.60	UNR511600LTR-ND	79.00/M
22	∞	160	UNR511700LCT-ND◆	.40	2.97	20.60	UNR511700LTR-ND◆	79.00/M
0.51	5.1	20	UNR511800LCT-ND	.40	2.97	20.60	UNR511800LTR-ND	79.00/M
1	10	30	UNR511900LCT-ND	.40	2.97	20.60	UNR511900LTR-ND	79.00/M
47	∞	160	UNR511000LCT-ND	.40	2.97	20.60	UNR511000LTR-ND	79.00/M
47	10	30	UNR511D00LCT-ND	.40	2.97	20.60	UNR511D00LTR-ND	79.00/M
47	22	60	UNR511E00LCT-ND	.40	2.97	20.60	UNR511E00LTR-ND	79.00/M
4.7	10	30	UNR511F00LCT-ND	.40	2.97	20.60	UNR511F00LTR-ND	79.00/M
2.2	10	30	UNR511H00LCT-ND	.40	2.97	20.60	UNR511H00LTR-ND	79.00/M
4.7	4.7	20	UNR511L00LCT-ND	.40	2.97	20.60	UNR511L00LTR-ND	79.00/M
2.2	47	80	UNR511M00LCT-ND	.40	2.97	20.60	UNR511M00LTR-ND	79.00/M
4.7	47	80	UNR511N00LCT-ND	.40	2.97	20.60	UNR511N00LTR-ND	79.00/M
22	47	80	UNR511T00LCT-ND◆	.35	2.65	18.39	UNR511T00LTR-ND◆	71.00/M
2.2	2.2	6	UNR511V00LCT-ND	.40	2.97	20.60	UNR511V00LTR-ND	79.00/M
10	47	80	UNR515400LCT-NDΔ◆	.35	2.65	18.39	UNR515400LTR-NDΔ◆	71.00/M
NPN								
10	10	35	UNR521100LCT-ND◆	.40	2.97	20.60	UNR521100LTR-ND◆	79.00/M
22	22	60	UNR521200LCT-ND◆	.40	2.97	20.60	UNR521200LTR-ND◆	79.00/M
47	47	80	UNR521300LCT-ND◆	.40	2.97	20.60	UNR521300LTR-ND◆	79.00/M
10	47	80	UNR521400LCT-ND◆	.40	2.97	20.60	UNR521400LTR-ND◆	79.00/M
10	∞	160	UNR521500LCT-ND◆	.40	2.97	20.60	UNR521500LTR-ND◆	79.00/M
4.7	∞	160	UNR521600LCT-ND	.40	2.97	20.60	UNR521600LTR-ND	79.00/M
22	∞	160	UNR521700LCT-ND	.40	2.97	20.60	UNR521700LTR-ND	79.00/M
0.51	5.1	20	UNR521800LCT-ND	.40	2.97	20.60	UNR521800LTR-ND	79.00/M
1	10	30	UNR521900LCT-ND	.40	2.97	20.60	UNR521900LTR-ND	79.00/M
47	∞	160	UNR521000LCT-ND	.40	2.97	20.60	UNR521000LTR-ND	79.00/M
47	10	30	UNR521D00LCT-ND◆	.40	2.97	20.60	UNR521D00LTR-ND◆	79.00/M
47	22	60	UNR521E00LCT-ND	.40	2.97	20.60	UNR521E00LTR-ND	79.00/M
4.7	10	30	UNR521F00LCT-ND◆	.40	2.97	20.60	UNR521F00LTR-ND◆	79.00/M
10	4.7	20	UNR521K00LCT-ND	.40	2.97	20.60	UNR521K00LTR-ND	79.00/M
4.7	4.7	20	UNR521L00LCT-ND◆	.40	2.97	20.60	UNR521L00LTR-ND◆	79.00/M
2.2	47	80	UNR521M00LCT-ND	.40	2.97	20.60	UNR521M00LTR-ND	79.00/M
4.7	47	80	UNR521N00LCT-ND	.40	2.97	20.60	UNR521N00LTR-ND	79.00/M
22	47	80	UNR521T00LCT-ND◆	.35	2.65	18.39	UNR521T00LTR-ND◆	71.00/M
2.2	2.2	6	UNR521V00LCT-ND	.40	2.97	20.60	UNR521V00LTR-ND	79.00/M
—	100	80	UNR521W00LCT-ND◆	.35	2.65	18.39	UNR521W00LTR-ND◆	71.00/M
4.7	∞	100‡	UNR522600LCT-ND§◆	.48	3.86	28.98	UNR522600LTR-ND§◆	128.00/M

§ **VCEO** = 20V **IC** = 600mA ‡ **VCE** = 5V **IC** = 50mA Δ **VCEO** = 30V ◆ ***RoHS Compliant***

SSS-Mini Type

Surface Mount with built-in-resistors for preset gains

VCEO = 50V/-50V
IC = 80mA/-80mA
PT = 100mW

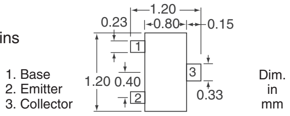

Resistance Value		hFE min	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel Pricing
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	10,000
PNP								
47	22	60	UNR31AE00LCT-ND	.41	3.24	22.82	UNR31AE00LTR-ND	80.00/M
47	∞	160	UNR31A000LCT-ND◆	.41	3.24	22.82	UNR31A000LTR-ND◆	80.00/M
10	10	35	UNR31A100LCT-ND◆	.41	3.24	22.82	UNR31A100LTR-ND◆	80.00/M

‡ **IC** = 100mA ◆ ***RoHS Compliant***

(Continued)

Panasonic® PNP/NPN Transistors

SSS-Mini Type *(Cont.)*

Resistance Value		hFE min	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel Pricing
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	10,000
47	47	80	UNR31A300LCT-ND◆	.41	3.24	22.82	UNR31A300LTR-ND◆	80.00/M
10	47	80	UNR31A400LCT-ND◆	.41	3.24	22.82	UNR31A400LTR-ND◆	80.00/M
10	∞	160	UNR31A500LCT-ND◆	.41	3.24	22.82	UNR31A500LTR-ND◆	80.00/M
4.7	∞	160	UNR31A600LCT-ND	.41	3.24	22.82	UNR31A600LTR-ND	80.00/M
1	10	30	UNR31A900LCT-ND◆	.34	2.64	18.58	UNR31A900LTR-ND◆	65.00/M
10	10	35‡	UNR311100LCT-ND	.40	3.30	26.43	UNR311100LTR-ND	93.00/M
22	22	60‡	UNR311200LCT-ND◆	.41	3.33	22.85	UNR311200LTR-ND◆	95.00/M
47	47	80‡	UNR311300LCT-ND	.39	3.28	26.21	UNR311300LTR-ND	92.00/M
2.2	47	80	UNR31AM00LCT-ND◆	.37	2.89	20.38	UNR31AM00LTR-ND◆	72.00/M
4.7	47	80	UNR31AN00LCT-ND◆	.37	2.89	20.38	UNR31AN00LTR-ND◆	72.00/M
NPN								
100	100	80	UNR32AA00LCT-ND	.41	3.24	22.82	UNR32AA00LTR-ND	80.00/M
47	∞	160	UNR32A000LCT-ND◆	.41	3.24	22.82	UNR32A000LTR-ND◆	80.00/M
10	10	35	UNR32A100LCT-ND	.41	3.24	22.82	UNR32A100LTR-ND	80.00/M
47	47	80	UNR32A300LCT-ND	.41	3.24	22.82	UNR32A300LTR-ND	80.00/M
10	47	80	UNR32A400LCT-ND◆	.41	3.24	22.82	UNR32A400LTR-ND◆	80.00/M
10	∞	160	UNR32A500LCT-ND	.41	3.24	22.82	UNR32A500LTR-ND	80.00/M
4.7	∞	160	UNR32A600LCT-ND◆	.41	3.24	22.82	UNR32A600LTR-ND◆	80.00/M
22	∞	160	UNR32A700LCT-ND◆	.34	2.64	18.58	UNR32A700LTR-ND◆	65.00/M
4.7	47	80‡	UNR321N00LCT-ND	.39	3.28	26.21	UNR321N00LTR-ND	92.00/M
47	∞	160‡	UNR321000LCT-ND	.40	3.30	26.43	UNR321000LTR-ND	93.00/M
47	47	80‡	UNR321300LCT-ND	.39	3.28	26.21	UNR321300LTR-ND	92.00/M
4.7	∞	160‡	UNR321600LCT-ND	.39	3.28	26.21	—	—
100	∞	160	UNR32AB00LCT-ND◆	.37	2.89	20.38	—	—
47	22	60	UNR32AE00LCT-ND◆	.37	2.89	20.38	UNR32AE00LTR-ND◆	72.00/M
2.2	47	80	UNR32AM00LCT-ND◆	.37	2.89	20.38	UNR32AM00LTR-ND◆	72.00/M
4.7	47	80	UNR32AN00LCT-ND◆	.37	2.89	20.38	UNR32AN00LTR-ND◆	72.00/M
22	47	80	UNR32AT00LCT-ND◆	.37	2.89	20.38	UNR32AT00LTR-ND◆	72.00/M

‡ **IC** = 100mA ◆ ***RoHS Compliant***

SS-Mini Flat (J-Type)

Dim. in mm

Surface Mount with built in resistors for preset gains

VCEO = 50V/-50V

IC = 100mA/-100mA

PT = 125mW

EIAJ: SC-81

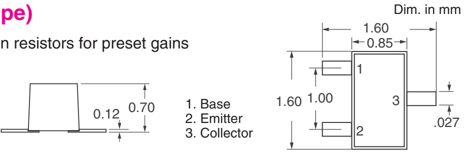

Resistance Value		hFE min	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel Pricing
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	3,000
PNP								
10	10	35	UNR9111J0LCT-ND	.40	2.99	20.72	UNR9111J0LTR-ND	80.00/M
22	22	60	UNR9112J0LCT-ND	.40	2.99	20.72	UNR9112J0LTR-ND	80.00/M
47	47	80	UNR9113J0LCT-ND	.40	2.99	20.72	UNR9113J0LTR-ND	80.00/M
10	47	80	UNR9114J0LCT-ND	.40	2.99	20.72	UNR9114J0LTR-ND	80.00/M
10	∞	160	UNR9115J0LCT-ND	.40	2.99	20.72	UNR9115J0LTR-ND	80.00/M
4.7	∞	160	UNR9116J0LCT-ND	.40	2.99	20.72	UNR9116J0LTR-ND	80.00/M
22	∞	160	UNR9117J0LCT-ND	.40	2.99	20.72	UNR9117J0LTR-ND	80.00/M
0.51	5.1	20	UNR9118J0LCT-ND	.40	2.99	20.72	UNR9118J0LTR-ND	80.00/M
1	10	30	UNR9119J0LCT-ND	.40	2.99	20.72	UNR9119J0LTR-ND	80.00/M
47	∞	160	UNR9110J0LCT-ND	.40	2.99	20.72	UNR9110J0LTR-ND	80.00/M
22	47	80	UNR911TJ0LCT-ND	.40	2.99	20.72	UNR911TJ0LTR-ND	80.00/M
47	10	30	UNR911DJ0LCT-ND◆	.37	2.77	19.18	UNR911DJ0LTR-ND◆	74.00/M
47	22	60	UNR911EJ0LCT-ND	.37	2.77	19.18	UNR911EJ0LTR-ND	74.00/M
4.7	10	30	UNR911FJ0LCT-ND	.37	2.77	19.18	UNR911FJ0LTR-ND	74.00/M
2.2	10	30	UNR911HJ0LCT-ND	.37	2.77	19.18	UNR911HJ0LTR-ND	74.00/M
4.7	4.7	20	UNR911LJ0LCT-ND	.37	2.77	19.18	UNR911LJ0LTR-ND	74.00/M
4.7	47	80	UNR911NJ0LCT-ND	.37	2.77	19.18	UNR911NJ0LTR-ND	74.00/M
100	100	80	UNR911AJ0LCT-ND	.37	2.77	19.18	UNR911AJ0LTR-ND	74.00/M
100	∞	160	UNR911BJ0LCT-ND	.37	2.77	19.18	UNR911BJ0LTR-ND	74.00/M
2.2	47	80	UNR911MJ0LCT-ND	.37	2.77	19.18	UNR911MJ0LTR-ND	74.00/M
NPN								
10	10	35	UNR9211J0LCT-ND◆	.40	2.99	20.72	UNR9211J0LTR-ND◆	80.00/M
22	22	60	UNR9212J0LCT-ND	.40	2.99	20.72	UNR9212J0LTR-ND	80.00/M
47	47	80	UNR9213J0LCT-ND	.40	2.99	20.72	UNR9213J0LTR-ND	80.00/M
10	47	80	UNR9214J0LCT-ND	.40	2.99	20.72	UNR9214J0LTR-ND	80.00/M
10	∞	160	UNR9215J0LCT-ND	.40	2.99	20.72	UNR9215J0LTR-ND	80.00/M
4.7	∞	160	UNR9216J0LCT-ND	.40	2.99	20.72	UNR9216J0LTR-ND	80.00/M
22	∞	160	UNR9217J0LCT-ND	.40	2.99	20.72	UNR9217J0LTR-ND	80.00/M
0.51	5.1	20	UNR9218J0LCT-ND	.40	2.99	20.72	UNR9218J0LTR-ND	80.00/M
1	10	30	UNR9219J0LCT-ND	.40	2.99	20.72	UNR9219J0LTR-ND	80.00/M
47	∞	160	UNR9210J0LCT-ND	.40	2.99	20.72	UNR9210J0LTR-ND	80.00/M
10	4.7	20	UNR921KJ0LCT-ND◆	.37	2.77	19.18	UNR921KJ0LTR-ND◆	74.00/M
22	47	80	UNR921MJ0LCT-ND	.40	2.99	20.72	UNR921MJ0LTR-ND	80.00/M
22	47	80	UNR921TJ0LCT-ND	.40	2.99	20.72	UNR921TJ0LTR-ND	80.00/M
47	10	30	UNR921DJ0LCT-ND	.37	2.77	19.18	UNR921DJ0LTR-ND	74.00/M
47	22	60	UNR921EJ0LCT-ND	.37	2.77	19.18	UNR921EJ0LTR-ND	74.00/M
4.7	10	30	UNR921FJ0LCT-ND	.37	2.77	19.18	UNR921FJ0LTR-ND	74.00/M
4.7	4.7	20	UNR921LJ0LCT-ND	.37	2.77	19.18	UNR921LJ0LTR-ND	74.00/M
100	100	80	UNR921AJ0LCT-ND	.37	2.77	19.18	UNR921AJ0LTR-ND	74.00/M
100	100	160	UNR921BJ0LCT-ND	.37	2.77	19.18	UNR921BJ0LTR-ND	74.00/M
—	47	80	UNR921CJ0LCT-ND◆	.37	2.77	19.18	UNR921CJ0LTR-ND◆	74.00/M
2.2	2.2	6	UNR921NJ0LCT-ND	.37	2.77	19.18	UNR921NJ0LTR-ND	74.00/M
2.2	2.2	6	UNR921VJ0LCT-ND	.37	2.77	19.18	UNR921VJ0LTR-ND	74.00/M

◆ ***RoHS Compliant***

1006 Leadless Type

RoHS COMPLIANT

Surface Mount with built-in resistors for preset gains

VCEO = 50V/-50V
IC = 80mA/-80mA
PT = 100mW

Dim. in mm

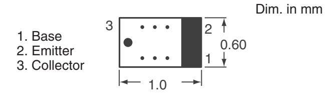

Res. Value		hFE min	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel Pricing
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	10,000
PNP								
47	47	80	UNRF1A300ACT-ND	.46	3.80	30.38	UNRF1A300ATR-ND	106.00/M
10	47	80	UNRF1A400ACT-ND	.46	3.80	30.38	UNRF1A400ATR-ND	106.00/M
NPN								
4.7	47	80	UNRF2AN00ACT-ND	.46	3.80	30.38	UNRF2AN00ATR-ND	106.00/M
10	10	35	UNRF2A100ACT-ND	.46	3.80	30.38	UNRF2A100ATR-ND	106.00/M
47	47	80	UNRF2A300ACT-ND	.46	3.80	30.38	UNRF2A300ATR-ND	106.00/M
22	∞	160	UNRF2A700ACT-ND	.46	3.80	30.38	UNRF2A700ATR-ND	106.00/M

1008 Mold Leadless Type

Surface Mount with built-in-resistors for preset gains

VCEO = 50V/-50V

IC = 100mA/-100mA

PT = 150mW

Dim. in mm

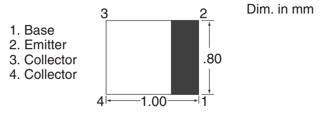

Resistance Value		hFE min	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel Pricing
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	10,000
PNP								
10	10	35	UNRL11100ACT-ND	.69	5.21	39.06	UNRL11100ATR-ND	217.00/M
47	47	80	UNRL11300ACT-ND	.69	5.21	39.06	UNRL11300ATR-ND	217.00/M
10	∞	160	UNRL11500ACT-ND	.69	5.21	39.06	UNRL11500ATR-ND	217.00/M
NPN								
10	10	35	UNRL21100ACT-ND	.69	5.21	39.06	UNRL21100ATR-ND	217.00/M
47	47	80	UNRL21300ACT-ND	.69	5.21	39.06	UNRL21300ATR-ND	217.00/M
10	∞	160	UNRL21500ACT-ND	.69	5.21	39.06	UNRL21500ATR-ND	217.00/M

Panasonic® Transistors

Dim. in mm

Mini Type (3-Pin)

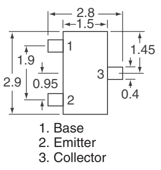

S-Mini Type (3-Pin)

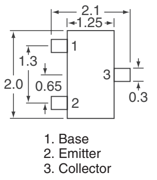

SS-Mini Flat (3-Pin)

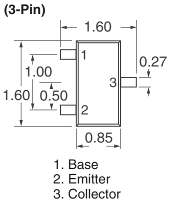

SSS Mini (3-Pin)

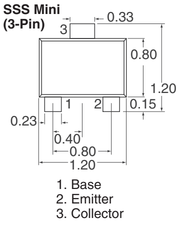

1006 Leadless Type

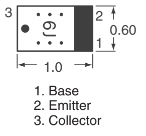

Mini Power Type

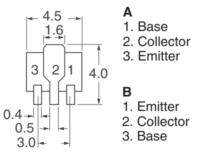

U-G2 Type

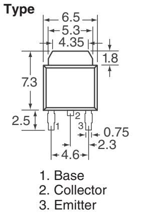

Application	Package	VCEO (V)	IC (mA)	hFE		Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel	
				Min.	Max.	Part No.	1	10	100	Part No.	Qty.	Pricing
PNP Type												
RF Amp	Mini 3P	20	30	70	140	2SA10220BLCT-ND	.38	3.09	21.20	2SA10220BLTR-ND	3,000	100.00/M
High Freq. Amp	Mini 3P	20	30	110	220	2SA10220CLCT-ND	.41	3.34	22.89	2SA10220CLTR-ND	3,000	108.00/M
AF Low Noise Amp	Mini 3P	35	50	260	520	2SA10340SLCT-ND◆	.59	4.72	35.39	2SA10340SLTR-ND◆	3,000	157.00/M
AF Low Noise Amp	Mini 3P	55	50	260	520	2SA10350SLCT-ND◆	.59	4.72	35.39	2SA10350SLTR-ND◆	3,000	157.00/M
High Speed Switching	Mini 3P	15	50	90	150	2SA17380RLCT-ND◆	.62	4.67	35.04	2SA17380RLTR-ND◆	3,000	202.00/M
DC-DC Converter	Mini 3P	15	2,500	200	560	2SA201000LCT-ND	.50	3.76	28.22	2SA201000LTR-ND	3,000	163.00/M

† VCBO ◆ ***RoHS Compliant***

(Continued)

Panasonic® Transistors *(Cont.)*

Application	Package	VCEO (V)	IC (mA)	hFE		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
				Min.	Max.		1	10	100		Qty.	Pricing
DC-DC Converter	Mini 3P	20	1,500	160	560	2SA204600LCT-ND◆	.48	3.63	27.22	2SA204600LTR-ND◆	3,000	157.00/M
General Amp	Mini 3P	45	100	160	460	2SA207700LCT-ND	.35	2.75	19.39	2SA207700LTR-ND	3,000	79.00/M
General Amp	Mini 3P	45	100	160	460	2SB0709A0LCT-ND◆	.25	1.88	13.00	2SB0709A0LTR-ND◆	3,000	59.00/M
General Amp	Mini 3P	45	100	160	260	2SB0709AQLCT-ND◆	.30	2.25	16.25	2SB0709AQLTR-ND◆	3,000	59.00/M
General Amp	Mini 3P	45	100	210	340	2SB0709ARLCT-ND◆	.30	2.25	16.25	2SB0709ARLTR-ND◆	3,000	59.00/M
General Amp	Mini 3P	45	100	290	460	2SB0709ASLCT-ND◆	.30	2.25	16.25	2SB0709ASLTR-ND◆	3,000	59.00/M
General Amp	Mini 3P	25	500	85	340	2SB071000LCT-ND	.41	3.26	24.46	2SB071000LTR-ND	3,000	108.00/M
General Amp	Mini 3P	25	500	85	170	2SB07100QLCT-ND	.47	3.90	31.22	2SB07100QLTR-ND	3,000	125.00/M
General Amp	Mini 3P	25	500	120	240	2SB07100RLCT-ND	.47	3.90	31.22	2SB07100RLTR-ND	3,000	125.00/M
General Amp	Mini 3P	25	500	170	340	2SB07100SLCT-ND	.47	3.90	31.22	2SB07100SLTR-ND	3,000	125.00/M
General Amp	Mini 3P	50	500	85	340	2SB0710A0LCT-ND◆	.39	3.12	23.41	2SB0710A0LTR-ND◆	3,000	125.00/M
General Amp	Mini 3P	50	500	85	170	2SB0710AQLCT-ND◆	.47	3.90	31.22	2SB0710AQLTR-ND◆	3,000	125.00/M
General Amp	Mini 3P	50	500	120	240	2SB0710ARLCT-ND◆	.47	3.90	31.22	2SB0710ARLTR-ND◆	3,000	125.00/M
General Amp	Mini 3P	50	500	170	340	2SB0710ASLCT-ND	.47	3.90	31.22	2SB0710ASLTR-ND	3,000	125.00/M
AF Output Amp	Mini 3P	20	500	130	220	2SB07790RLCT-ND◆	.72	5.42	40.68	2SB07790RLTR-ND◆	3,000	235.00/M
Low Noise Amp	Mini 3P	185	50	130	220	2SB0792ARLCT-ND◆	.41	3.04	21.08	2SB0792ARLTR-ND◆	3,000	73.00/M
Low Noise Amp	Mini 3P	185	50	185	330	2SB0792ASLCT-ND◆	.41	3.04	21.08	2SB0792ASLTR-ND◆	3,000	73.00/M
Low Noise Amp	Mini 3P	150	50	185	330	2SB07920SLCT-ND◆	.39	2.93	20.33	2SB07920SLTR-ND◆	3,000	78.00/M
Low-Volt. Amp	Mini 3P	10	500	130	220	2SB09700RLCT-ND	.54	4.07	30.51	2SB09700RLTR-ND	3,000	176.00/M
Low-Volt. Amp	Mini 3P	10	500	180	350	2SB09700SLCT-ND	.54	4.07	30.51	2SB09700SLTR-ND	3,000	176.00/M
General Amp	Mini 3P	20	500	160	560	2SB169300LCT-ND◆	.58	4.37	32.75	2SB169300LTR-ND◆	3,000	189.00/M
RF Amp	S-Mini 3P	20	30	110	220	2SA15320CLCT-ND	.49	3.68	27.60	2SA15320CLTR-ND	3,000	159.00/M
High Speed Switch	S-Mini 3P	15	50	90	150	2SA17390RLCT-ND◆	.50	3.77	28.27	2SA17390RLTR-ND◆	3,000	163.00/M
RF Amp	S-Mini 3P	50	50	250	500	2SA17480RLCT-ND◆	.54	4.35	32.64	2SA17480RLTR-ND◆	3,000	145.00/M
AF High Volt Amp	S-Mini 3P	120	20	260	520	2SA20090SLCT-ND◆	.41	3.31	24.82	2SA20090SLTR-ND◆	3,000	110.00/M
General Amp	S-Mini 3P	45	100	160	460	2SB1218A0LCT-ND	.36	2.72	18.82	2SB1218A0LTR-ND	3,000	72.00/M
General Amp	S-Mini 3P	45	100	160	260	2SB1218AQLCT-ND◆	.36	2.72	18.82	2SB1218AQLTR-ND◆	3,000	72.00/M
General Amp	S-Mini 3P	45	100	210	340	2SB1218ARLCT-ND	.36	2.72	18.82	2SB1218ARLTR-ND	3,000	72.00/M
General Amp	S-Mini 3P	45	100	290	460	2SB1218ASLCT-ND	.36	2.72	18.82	2SB1218ASLTR-ND	3,000	72.00/M
General Amp	S-Mini 3P	50	2,000	120	240	2SB12190RLCT-ND	.43	3.45	25.86	2SB12190RLTR-ND	3,000	115.00/M
General Amp	S-Mini 3P	50	500	85	340	2SB1219ASLCT-ND◆	.43	3.45	25.86	2SB1219ASLTR-ND◆	3,000	115.00/M
AF High Volt Amp	S-Mini 3P	150	50	130	220	2SB12200RLCT-ND◆	.58	4.66	34.94	2SB12200RLTR-ND◆	3,000	155.00/M
AF Amp	S-Mini 3P	10	1,000	130	350	2SB167900LCT-ND◆	.59	4.72	35.41	2SB167900LTR-ND◆	3,000	157.00/M
DC-DC Converter	S-Mini 3P	20	1,000	160	560	2SA202800LCT-ND◆	.62	4.62	34.63	2SA202800LTR-ND◆	3,000	200.00/M
RF Amp	SS-Mini 3P	20	30	110	220	2SA1790JCLCT-ND◆	.46	3.68	27.58	2SA1790JCLTR-ND◆	3,000	122.00/M
RF Amp	SS-Mini 3P	50	50	250	500	2SA1791JRLCT-ND◆	.55	4.41	33.10	2SA1791JRLTR-ND◆	3,000	147.00/M
High Speed Switch	SS-Mini 3P	15	50	90	150	2SA1806JRLCT-ND◆	.49	3.68	27.58	2SA1806JRLTR-ND◆	3,000	159.00/M
General Amp	SS-Mini 3P	12	500	270	680	2SA2161J0LCT-ND◆	.46	3.65	27.34	2SA2161J0LTR-ND◆	3,000	121.00/M
General Amp	SS-Mini 3P	50	100	180	390	2SB1462J0LCT-ND◆	.34	2.65	18.63	2SB1462J0LTR-ND◆	3,000	76.00/M
AF High Volt Amp	SS-Mini 3P	150	50	130	220	2SB1463JRLCT-ND◆	.66	4.96	37.23	2SB1463JRLTR-ND◆	3,000	215.00/M
AF High Volt Amp	SS-Mini 3P	100	20	200	700	2SB1722J0LCT-ND◆	.58	4.66	34.94	2SB1722J0LTR-ND◆	3,000	155.00/M
General Amp	SSS Mini 3P	50	100	180	390	2SA207800LCT-ND◆	.37	2.92	20.53	2SA207800LTR-ND◆	10,000	72.00/M
General Amp	SSS Mini 3P	12	500	270	680	2SA216200LCT-ND◆	.41	3.25	24.36	2SA216200LTR-ND◆	10,000	102.00/M
RF Amp	SSS Mini 3P	20	30	70	220	2SA216400LCT-ND◆	.52	3.90	29.26	2SA216400LTR-ND◆	10,000	163.00/M
RF Amp	1006 Leadless	20	30	70	220	2SA216300ACT-ND◆	.62	4.67	35.04	2SA216300ATR-ND◆	10,000	195.00/M
General Amp	1006 Leadless	45	100	180	390	2SA207900ACT-ND◆	.37	2.98	20.41	2SA207900ATR-ND◆	10,000	85.00/M
AF Output Amp	Mini-Pwr. (A)	80	1,000	120	240	2SA18900RLCT-ND◆	.58	4.32	32.41	2SA18900RLTR-ND◆	1,000	192.00/M
Low Freq. Output Amp	Mini-Pwr. (A)	50	1,000	85	340	2SB0766ARLCT-ND◆	.52	3.87	29.02	2SB0766ARLTR-ND◆	1,000	172.00
AF Output Amp	Mini-Pwr. (B)	25	1,000	120	240	2SB07660RLCT-ND◆	.60	4.78	35.83	2SB07660RLTR-ND◆	1,000	167.00
AF Output Amp	Mini-Pwr. (A)	80	500	90	155	2SB07670QLCT-ND◆	.53	3.94	29.55	2SB07670QLTR-ND◆	1,000	175.00
AF Output Amp	Mini-Pwr. (A)	80	500	130	220	2SB07670RLCT-ND◆	.53	3.94	29.55	2SB07670RLTR-ND◆	1,000	175.00
AF High Power Driver	Mini-Pwr. (B)	100	500	130	220	2SB07890RLCT-ND◆	.71	5.34	40.08	2SB07890RLTR-ND◆	1,000	237.00
Low Freq. Amp	Mini-Pwr. (A)	120	500	90	155	2SB0789AQLCT-ND	.80	5.99	44.89	2SB0789AQLTR-ND	1,000	265.00
Low Freq. Amp	Mini-Pwr. (A)	120	500	130	220	2SB0789ARLCT-ND◆	.80	5.99	44.89	2SB0789ARLTR-ND◆	1,000	265.00
Low Freq. Output Amp	Mini-Pwr. (A)	20	1,000	130	280	2SB09560RLCT-ND◆	.51	3.85	28.88	2SB09560RLTR-ND◆	1,000	171.00
AF Amp	Mini-Pwr. (B)	20	4,000	180	315	2SB10730RLCT-ND◆	.54	4.07	30.51	2SB10730RLTR-ND◆	1,000	180.00
Low Freq. Output Amp	Mini-Pwr. (A)	50	2,000	120	340	2SB14400RLCT-ND	.72	5.42	40.63	2SB14400RLTR-ND	1,000	240.00
Low Freq. Output Amp	Mini-Pwr. (A)	10	1,500	200	700	2SB158900LCT-ND	.52	3.87	29.02	2SB158900LTR-ND	1,000	172.00
Power Amp	Mini-Pwr. (A)	40	1,500	80	160	2SB15990QLCT-ND	.71	5.33	39.94	2SB15990QLTR-ND	1,000	236.00
Power Amp	Mini-Pwr. (A)	40	1,500	100	220	2SB15990RLCT-ND	.71	5.33	39.94	2SB15990RLTR-ND	1,000	236.00
AF Power Amp	U-G2	40	1,500	120	220	2SB09680RLCT-ND◆	1.47	12.26	98.06	2SB09680RLTR-ND◆	3,000	637.00/M
AF Power Amp	U-G2	50	2,000	120	340	2SB157400LCT-ND◆	1.15	9.58	76.61	2SB157400LTR-ND◆	3,000	498.00/M
NPN Type												
RF Amp	Mini 3P	20	30	70	140	2SC22950BLCT-ND◆	.42	3.37	25.28	2SC22950BLTR-ND◆	3,000	112.00/M
RF Amp	Mini 3P	20	15	65	160	2SC24040CLCT-ND	.55	4.37	32.79	2SC24040CLTR-ND	3,000	145.00/M
RF Amp	Mini 3P	20	15	100	260	2SC24040DLCT-ND◆	.55	4.37	32.79	2SC24040DLTR-ND◆	3,000	145.00/M
Low Noise Amp	Mini 3P	35	50	180	360	2SC24050RLCT-ND	.61	4.54	34.06	2SC24050RLTR-ND	3,000	197.00/M
Low Noise Amp	Mini 3P	55	50	260	520	2SC24060SLCT-ND	.55	4.12	30.87	2SC24060SLTR-ND	3,000	178.00/M
High Freq. Amp	Mini 3P	20	50	25	250	2SC248000LCT-ND◆	.40	3.19	21.89	2SC248000LTR-ND◆	3,000	103.00/M
RF Amp	Mini 3P	20	30	110	250	2SC27780CLCT-ND◆	.49	3.92	29.42	2SC27780CLTR-ND◆	3,000	130.00/M
RF Amp/Oscillator Mixer	Mini 3P	10	50	110	220	2SC31300QLCT-ND◆	.48	3.63	27.23	2SC31300QLTR-ND◆	3,000	157.00/M
UHF Low-Noise Amp	Mini 3P	10	80	50	300	2SC370400LCT-ND◆	.59	4.42	33.12	2SC370400LTR-ND◆	3,000	191.00/M
UHF Amp	Mini 3P	7	10	50	150	2SC370700LCT-ND◆	.93	7.00	52.49	2SC370700LTR-ND◆	3,000	303.00/M
High Speed Switch	Mini 3P	40	100	90	200	2SC37570RLCT-ND◆	.49	3.64	27.29	2SC37570RLTR-ND◆	3,000	158.00/M
UHF Low-Noise Amp	Mini 3P	10	80	50	300	2SC382900LCT-ND◆	.56	4.20	31.48	2SC382900LTR-ND◆	3,000	182.00/M
UHF Low Noise Amp	Mini 3P	10	80	110	250	2SC555600LCT-ND◆	.68	5.10	38.27	2SC555600LTR-ND◆	3,000	221.00/M
DC-DC Converter	Mini 3P	15	2,500	400	1,000	2SC559200LCT-ND	.48	3.63	27.22	2SC559200LTR-ND	3,000	157.00/M
DC-DC Converter	Mini 3P	15	2,000	200	800	2SC57250SLCT-ND	.58	4.66	34.97	2SC57250SLTR-ND	3,000	155.00/M
DC-DC Converter	Mini 3P	80	1,500	200	—	2SC581300LCT-ND◆	.51	3.80	28.46	2SC581300LTR-ND◆	3,000	164.00/M
General Amp	Mini 3P	50	100	160	460	2SC584500LCT-ND◆	.35	2.75	19.39	2SC584500LTR-ND◆	3,000	79.00/M
General Amp	Mini 3P	300	70	60	150	2SC58630QLCT-ND◆	.59	4.46	33.44	2SC58630QLTR-ND◆	3,000	193.00/M
General Amp	Mini 3P	50	100	160	460	2SD0601A0LCT-ND◆	.25	1.88	13.00	2SD0601A0LTR-ND◆	3,000	59.00/M
General Amp	Mini 3P	50	100	160	260	2SD0601AQLCT-ND◆	.30	2.25	16.25	2SD0601AQLTR-ND◆	3,000	59.00/M
General Amp	Mini 3P	50	100	210	340	2SD0601ARLCT-ND◆	.30	2.25	16.25	2SD0601ARLTR-ND◆	3,000	59.00/M
General Amp	Mini 3P	50	100	290	460	2SD0601ASLCT-ND◆	.30	2.25	16.25	2SD0601ASLTR-ND◆	3,000	59.00/M
General Amp	Mini 3P	50	500	85	340	2SD0602A0LCT-ND◆	.43	3.61	28.85	2SD0602A0LTR-ND◆	3,000	115.00/M
General Amp	Mini 3P	50	500	85	170	2SD0602AQLCT-ND	.43	3.61	28.85	2SD0602AQLTR-ND	3,000	115.00/M
General Amp	Mini 3P	50	500	120	240	2SD0602ARLCT-ND◆	.43	3.61	28.85	2SD0602ARLTR-ND◆	3,000	115.00/M
General Amp	Mini 3P	50	500	170	340	2SD0602ASLCT-ND◆	.43	3.61	28.85	2SD0602ASLTR-ND◆	3,000	115.00/M
Low Freq./Noise Amp	Mini 3P	185	50	130	220	2SD0814ARLCT-ND	.39	2.93	20.33	2SD0814ARLTR-ND	3,000	78.00/M
Low Freq./Noise Amp	Mini 3P	185	50	185	330	2SD0814ASLCT-ND◆	.39	2.93	20.33	2SD0814ASLTR-ND◆	3,000	78.00/M
AF Amp	Mini 3P	40	50	400	800	2SD10300RLCT-ND◆	.53	4.23	31.72	2SD10300RLTR-ND◆	3,000	141.00/M
Low Freq. Amp/High Gain	Mini 3P	100	20	400	800	2SD11490RLCT-ND◆	.36	2.71	18.78	2SD11490RLTR-ND◆	3,000	72.00/M
Low Freq. Amp/High Gain	Mini 3P	100	20	600	1,200	2SD11490SLCT-ND◆	.36	2.71	18.78	2SD11490SLTR-ND◆	3,000	72.00/M
Low Volt Amp	Mini 3P	20	500	200	800	2SD132800LCT-ND◆	.38	3.06	22.98	2SD132800LTR-ND◆	3,000	123.00/M
Low Volt Amp	Mini 3P	20	500	200	350	2SD13280RLCT-ND	.46	3.83	30.64	2SD13280RLTR-ND	3,000	123.00/M
Low Volt Amp	Mini 3P	20	500	300	500	2SD13280SLCT-ND	.46	3.83	30.64	2SD13280SLTR-ND	3,000	123.00/M
Low Volt Amp	Mini 3P	20	500	400	800	2SD13280TLCT-ND	.46	3.83	30.64	2SD13280TLTR-ND	3,000	123.00/M
AF Amp	Mini 3P	50	500	8,000	20,000	2SD1478ARLCT-ND◆	.68	5.10	38.27	2SD1478ARLTR-ND◆	3,000	221.00/M
Low VCE(sat)	Mini 3P	20	300	500	1,500	2SD1938FSLCT-ND	.38	2.98	21.01	2SD1938FSLTR-ND	3,000	86.00/M

† VCBO ◆ ***RoHS Compliant***

(Continued)

Panasonic Transistors *(Cont.)*

Application	Package	VCEO (V)	IC (mA)	hFE Min.	hFE Max.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
Low VCE(sat)	Mini 3P	20	300	800	2,500	2SD1938FTLCT-ND◆	.38	2.98	21.01	2SD1938FTLTR-ND◆	3,000	86.00/M
AF Low Noise Amp	S-Mini 3P	35	50	180	360	2SC39290RLCT-ND◆	.56	4.47	33.56	2SC39290RLTR-ND◆	3,000	149.00/M
AF Low Noise Amp	S-Mini 3P	55	50	260	520	2SC3929ASLCT-ND◆	.56	4.47	33.56	2SC3929ASLTR-ND◆	3,000	149.00/M
RF Amp	S-Mini 3P	20	30	110	220	2SC39300CLCT-ND	.53	3.97	29.81	2SC39300CLTR-ND	3,000	172.00/M
RF Amp	S-Mini 3P	20	15	65	160	2SC39310CLCT-ND	.52	3.93	29.45	2SC39310CLTR-ND	3,000	170.00/M
RF Amp/Oscillator/Mixer	S-Mini 3P	20	50	25	250	2SC39320SLCT-ND◆	.42	3.50	28.04	2SC39320SLTR-ND◆	3,000	336.00
High Freq. Amp	S-Mini 3P	20	50	25	250	2SC39320TLCT-ND	.39	3.14	23.55	2SC39320TLTR-ND	3,000	126.00/M
Wide Area LN Amp	S-Mini 3P	12	30	40	—	2SC393400LCT-ND◆	.58	4.32	32.41	2SC393400LTR-ND◆	3,000	187.00/M
RF Amp	S-Mini 3P	10	50	75	130	2SC39350PLCT-ND	.74	5.56	41.67	2SC39350PLTR-ND	3,000	241.00/M
RF Amp, Oscillator, Mixer	S-Mini 3P	10	50	110	220	2SC39350QLCT-ND	.69	5.14	38.58	2SC39350QLTR-ND	3,000	223.00/M
RF Amp	S-Mini 3P	20	30	110	250	2SC39360CLCT-ND◆	.39	3.06	21.57	2SC39360CLTR-ND◆	3,000	88.00/M
UHF Low Noise Amp	S-Mini 3P	10	80	50	300	2SC393700LCT-ND◆	.85	7.12	57.00	2SC393700LTR-ND◆	3,000	370.00/M
High Speed Switching	S-Mini 3P	40†	100	60	120	2SC39380QLCT-ND	.49	3.69	27.67	2SC39380QLTR-ND	3,000	160.00/M
High Speed Switching	S-Mini 3P	40†	100	90	200	2SC39380RLCT-ND	.49	3.69	27.67	2SC39380RLTR-ND	3,000	160.00/M
UHF Amp	S-Mini 3P	7	10	50	200	2SC441000LCT-ND◆	.77	6.40	51.18	2SC441000LTR-ND◆	3,000	333.00/M
RF Amp	S-Mini 3P	50	50	250	500	2SC45620RLCT-ND◆	.66	4.92	36.89	2SC45620RLTR-ND◆	3,000	213.00/M
2GHz Low Noise Amp	S-Mini 3P	10	65	50	120	2SC48050QLCT-ND◆	.74	5.52	41.37	2SC48050QLTR-ND◆	3,000	239.00/M
UHF Low Noise Amp	S-Mini 3P	10	80	80	130	2SC48350RLCT-ND◆	.62	4.64	34.82	2SC48350RLTR-ND◆	3,000	201.00/M
High Freq. Amp	S-Mini 3P	8	50	100	350	2SC563200LCT-ND	.42	3.33	25.01	2SC563200LTR-ND	3,000	111.00/M
DC-DC Converter	S-Mini 3P	20	1,000	160	560	2SC565400LCT-ND◆	.51	4.04	30.34	2SC565400LTR-ND◆	3,000	134.00/M
General Amp	S-Mini 3P	50	100	160	460	2SD1819A0LCT-ND◆	.37	2.96	20.33	2SD1819A0LTR-ND◆	3,000	96.00/M
General Amp	S-Mini 3P	50	100	160	260	2SD1819AQLCT-ND	.45	3.53	24.84	2SD1819AQLTR-ND	3,000	96.00/M
General Amp	S-Mini 3P	50	100	210	340	2SD1819ARLCT-ND	.45	3.53	24.84	2SD1819ARLTR-ND	3,000	96.00/M
General Amp	S-Mini 3P	50	100	290	460	2SD1819ASLCT-ND◆	.45	3.53	24.84	2SD1819ASLTR-ND◆	3,000	96.00/M
General Amp	S-Mini 3P	50	500	85	340	2SD1820A0LCT-ND◆	.43	3.41	25.58	2SD1820A0LTR-ND◆	3,000	113.00/M
General Amp	S-Mini 3P	50	500	120	240	2SD1820ARLCT-ND◆	.51	4.26	34.11	2SD1820ARLTR-ND◆	3,000	113.00/M
General Amp	S-Mini 3P	25	500	85	340	2SD1820CT-ND◆	.45	3.56	26.73	2SD1820TR-ND◆	3,000	113.43/M
HV Low Noise Amp	S-Mini 3P	150	50	130	220	2SD18210RLCT-ND◆	.48	3.80	28.50	2SD18210RLTR-ND◆	3,000	126.00/M
AF Amp	S-Mini 3P	40	50	400	800	2SD18230RLCT-ND◆	.41	3.30	22.62	2SD18230RLTR-ND◆	3,000	107.00/M
Low Freq. Amp/High Gain	S-Mini 3P	100	20	400	800	2SD18240RLCT-ND	.37	2.78	19.26	2SD18240RLTR-ND	3,000	74.00/M
Low Freq. Amp/High Gain	S-Mini 3P	100	20	600	1,200	2SD18240SLCT-ND	.37	2.78	19.26	2SD18240SLTR-ND	3,000	74.00/M
AF Output Amp	S-Mini 3P	20	300	500	1,500	2SD19790SLCT-ND◆	.55	4.10	30.74	2SD19790SLTR-ND◆	3,000	178.00/M
Low VCE(sat)	S-Mini 3P	20	500	200	800	2SD262300LCT-ND	.48	3.98	31.82	2SD262300LTR-ND	3,000	127.00/M
General Amp	SS-Mini 3P	50	100	160	460	2SA2174J0LCT-ND◆	.39	2.94	20.39	2SA2174J0LTR-ND◆	3,000	78.00/M
RF Amp	SS-Mini 3P	20	30	110	220	2SC4626JCLCT-ND◆	.51	4.11	30.80	2SC4626JCLTR-ND◆	3,000	137.00/M
High Freq. Amp	SS-Mini 3P	20	15	40	260	2SC4627J0LCT-ND◆	.42	3.34	25.02	2SC4627J0LTR-ND◆	3,000	111.00/M
RF Amp	SS-Mini 3P	20	30	110	250	2SC4655JCLCT-ND◆	.40	3.22	22.06	2SC4655JCLTR-ND◆	3,000	104.00/M
RF Amp	SS-Mini 3P	50	50	250	500	2SC4656JRLCT-ND◆	.55	4.41	33.10	2SC4656JRLTR-ND◆	3,000	147.00/M
High Speed Switch	SS-Mini 3P	40†	100	60	200	2SC4691J0LCT-ND◆	.59	4.72	35.39	2SC4691J0LTR-ND◆	3,000	157.00/M
UHF Low Noise Amp	SS-Mini 3P	10	80	50	300	2SC4808J0LCT-ND◆	.62	4.64	34.82	2SC4808J0LTR-ND◆	3,000	201.00/M
RF Amp/Oscillator/Mixer	SS-Mini 3P	10	50	75	400	2SC4809J0LCT-ND◆	.51	4.05	30.37	2SC4809J0LTR-ND◆	3,000	135.00/M
General Amp	SS-Mini 3P	12	500	270	680	2SC6037J0LCT-ND◆	.46	3.65	27.34	2SC6037J0LTR-ND◆	3,000	121.00/M
General Amp	SS-Mini 3P	50	100	160	460	2SC6054J0LCT-ND◆	.61	4.60	34.47	2SC6054J0LTR-ND◆	3,000	199.00/M
General Amp	SS-Mini 3P	50	100	160	460	2SD2216J0LCT-ND◆	.33	2.57	18.07	2SD2216J0LTR-ND◆	3,000	74.00/M
HV Low Noise Amp	SS-Mini 3P	150	50	130	220	2SD2240JRLCT-ND◆	.66	4.96	37.23	2SD2240JRLTR-ND◆	3,000	215.00/M
AF Amp	SS-Mini 3P	40	50	600	1,200	2SD2345JSLCT-ND◆	.49	3.68	27.58	2SD2345JSLTR-ND◆	3,000	159.00/M
AF Amp	SS-Mini 3P	100	20	400	1,200	2SD2620J0LCT-ND◆	.39	3.14	21.51	2SD2620J0LTR-ND◆	3,000	102.00/M
General Amp	SSS-Mini 3P	50	100	180	390	2SC584600LCT-ND◆	.37	2.92	20.53	2SC584600LTR-ND◆	10,000	72.00/M
RF Amp/Oscillator/Mixer	SSS-Mini 3P	10	50	75	400	2SC593900LCT-ND◆	.48	3.80	28.50	2SC593900LTR-ND◆	10,000	119.00/M
RF Amp/Oscillator/Mixer	SSS-Mini 3P	20	50	25	250	2SC594600LCT-ND◆	.46	3.68	27.58	2SC594600LTR-ND◆	10,000	115.00/M
General Amp	SSS-Mini 3P	12	500	270	680	2SC603600LCT-ND◆	.41	3.25	24.36	2SC603600LTR-ND◆	10,000	102.00/M
AF Amp	SSS-Mini 3P	100	20	400	1,200	2SD262100LCT-ND◆	.43	3.55	28.36	2SD262100LTR-ND◆	10,000	99.00/M
General Amp	1006 Leadless	50	100	180	390	2SC584800ACT-ND◆	.37	2.98	20.41	2SC584800ATR-ND◆	10,000	85.00/M
UHF Low Noise Amp	Mini-Pwr. (A)	10	80	80	250	2SC501900LCT-ND	.72	5.42	40.63	—	—	—
AF Output Amp	Mini-Pwr. (B)	80	1,000	120	240	2SC50260RLCT-ND◆	.88	6.57	49.30	2SC50260RLTR-ND◆	1,000	291.00
AF Output Amp	Mini-Pwr. (B)	25	1,000	120	240	2SD08740RLCT-ND◆	.55	4.37	32.79	2SD08740RLTR-ND◆	1,000	153.00
Low Freq. Output Amp	Mini-Pwr. (A)	50	1,000	85	340	2SD0874A0LCT-ND◆	.59	4.75	35.60	—	—	—
AF Output Amp	Mini-Pwr. (A)	80	500	130	220	2SD08750RLCT-ND◆	.52	3.92	29.39	2SD08750RLTR-ND◆	1,000	174.00
AF Output Amp	Mini-Pwr. (A)	80	500	185	330	2SD08750SLCT-ND	.52	3.92	29.39	2SD08750SLTR-ND	1,000	174.00
AF Output Amp	Mini-Pwr. (B)	25	3,000	340	600	2SD11190RLCT-ND◆	.80	6.02	45.16	2SD11190RLTR-ND◆	1,000	267.00
AF Amp	Mini-Pwr. (A)	20	1,000	130	210	2SD12800RLCT-ND◆	.77	5.77	43.29	2SD12800RLTR-ND◆	1,000	256.00
AF Amp	Mini-Pwr. (A)	20	1,000	180	280	2SD12800SLCT-ND◆	.77	5.77	43.29	2SD12800SLTR-ND◆	1,000	256.00
AF Amp	Mini-Pwr. (B)	80	1,000	8,000	20,000	2SD15110RLCT-ND◆	.88	6.62	49.64	2SD15110RLTR-ND◆	1,000	293.00
Low Freq. Output Amp	Mini-Pwr. (A)	50	3,000	120	340	2SD21850RLCT-ND◆	.67	5.00	37.51	2SD21850RLTR-ND◆	1,000	222.00
Low Freq. Output Amp	Mini-Pwr. (A)	20	500	200	800	2SD22100RLCT-ND	.56	4.51	33.86	2SD22100RLTR-ND	1,000	158.00
AF Amp	Mini-Pwr. (A)	400	100	30	—	2SD241300LCT-ND◆	.72	5.37	40.25	2SD241300LTR-ND◆	1,000	238.00
AF Power Amp	Mini-Pwr. (A)	40	1,500	80	160	2SD24570QLCT-ND◆	.94	7.03	52.76	2SD24570QLTR-ND◆	1,000	312.00
AF Output Amp	Mini-Pwr. (A)	150	1,000	120	240	2SD24590RLCT-ND◆	.92	6.93	51.97	2SD24590RLTR-ND◆	1,000	307.00
AF Output Amp	Mini-Pwr. (A)	150	1,000	170	340	2SD24590SLCT-ND	.92	6.93	51.97	2SD24590SLTR-ND	1,000	307.00
AF Power Amp	U-G2	40	1,500	120	220	2SD12950RLCT-ND◆	1.38	11.49	91.93	2SD12950RLTR-ND◆	3,000	598.00/M
Power Amp	U-G2	60	2,000	500	2,500	2SD245300LCT-ND◆	1.47	12.26	98.06	2SD245300LTR-ND◆	3,000	637.00/M

† VCBO ◆ ***RoHS Compliant***

Fast Recovery Diodes

Dim. in mm

Fig. 1

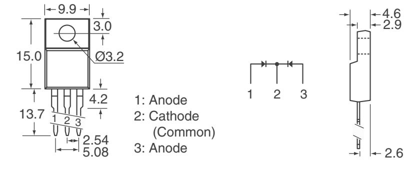

Fig. 2

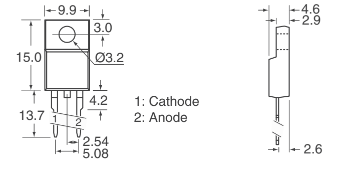

Fig. 3

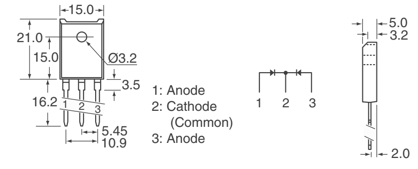

Fig.	Package	I_F (AV) (A)	V_{RRM} (V)	I_{FSM} (A)	I_{RRM} (μA)	V_F (V)	t_{rr} (ns)	Digi-Key Part No.	Pricing 1	10	100
1	TO-220D-A1	5	200	30	20	.98	30	MA3D649-ND	1.24	10.34	82.74
		10	200	60	100	.98	30	MA3D650-ND	1.47	12.26	98.06
2	TO-220D-B1	5	200	30	20	.98	45	MA3D690-ND	1.47	12.26	98.06
3	TOP-3F	20	300	150	20	1	50	MA3G655-ND	5.09	40.69	343.36

Schottky Barrier Diodes – Silicon Epitaxial Planar Type

Dimensions in mm

Mini Type (2-pin)

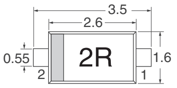

Mini Type (3-pin)
JEDEC: TO-236
EIAJ: SC-59

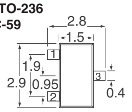

Mini Type (4-pin)

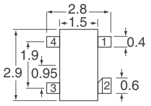

Mini Type (6-pin)

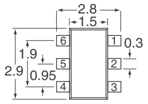

S-Mini Type (2-pin)

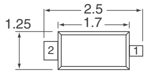

S-Mini Type (3-pin)
EIAJ: SC-70

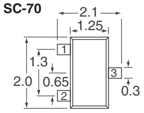

S-Mini Type (4-pin) Mold

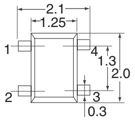

S-Mini Type (6-pin) Mold

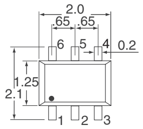

Mini-Power Type (2-pin)

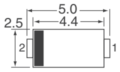

SS-Mini Type (2-pin)

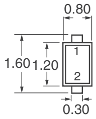

SS-Mini Type (3-pin)

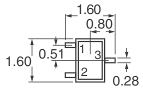

SS-Mini Type (4-pin)

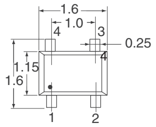

SSS-Mini Type (2-pin)

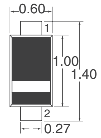

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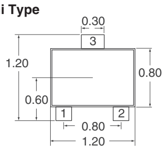

DO-34

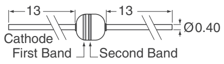

TO-220D

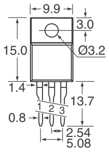

U-G2

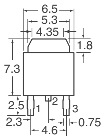

Fig. 1

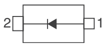

Fig. 2

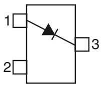

Fig. 3

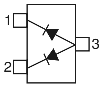

Fig. 4

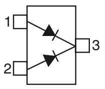

Fig. 5

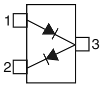

Fig. 6

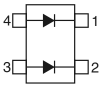

Fig. 7

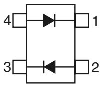

Fig. 8

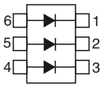

Fig. 9

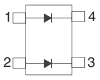

Fig. 10

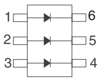

Fig. 11

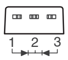

Fig. 12

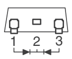

Fig.	Description	VR	IF	VF		Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel	
		(V)	(mA)	(V)	@mA	Part No.	1	10	100	Part No.	Qty.	Pricing
Mini Type 2-Pin — RoHS Compliant												
1	Single	20	1,000	0.45	1	MA2YD1500LCT-ND	.55	4.12	30.87	MA2YD1500LTR-ND	3,000	178.00/M
		100	300	0.58	300	MA2YD1700LCT-ND	.53	3.98	29.88	MA2YD1700LTR-ND	3,000	173.00/M
		15	1,000	0.40	1,000	MA2YD2100LCT-ND	.50	3.76	28.22	MA2YD2100LTR-ND	3,000	163.00/M
		25	1,000	0.42	500	MA2YD2300LCT-ND	.53	3.98	29.88	MA2YD2300LTR-ND	3,000	173.00/M
		60	800	0.51	800	MA2YD2600LCT-ND	.53	3.98	29.88	MA2YD2600LTR-ND	3,000	173.00/M
		30	1,500	0.39	500	MA2YD2800LCT-ND	.60	4.78	35.85	MA2YD2800LTR-ND	3,000	159.00/M
		30	500	.40	10	MA2YD3300LCT-ND	.51	3.81	28.59	MA2YD3300LTR-ND	3,000	165.00/M
		30	1,500	0.34	500	MA22D2800LCT-ND	.62	4.65	34.86	MA22D2800LTR-ND	3,000	201.00/M
		20	1,000	.40	1	MA22D1500LCT-ND	.57	4.30	32.28	MA22D1500LTR-ND	3,000	186.00/M
		25	1,000	.41	500	MA22D2300LCT-ND	.57	4.30	32.28	MA22D2300LTR-ND	3,000	186.00/M
		40	1,570*	.48	500	MA22D3900LCT-ND	.57	4.30	32.28	MA22D3900LTR-ND	3,000	186.00/M
Mini Type 3-Pin												
2	Single	30	700	0.55	700	MA3X70100LCT-ND◆	.46	3.70	27.72	MA3X70100LTR-ND◆	3,000	123.00/M
		20	500	0.5	500	MA3X70300LCT-ND◆	.58	4.66	34.97	MA3X70300LTR-ND◆	3,000	155.00/M
		15	30	0.40	1	MA3X70400LCT-ND◆	.43	3.46	25.94	MA3X70400LTR-ND◆	3,000	115.00/M
		30	30	0.40	1	MA3X704A0LCT-ND◆	.43	3.46	25.94	MA3X704A0LTR-ND◆	3,000	115.00/M
		30	30	0.30	1	MA3X71700LCT-ND◆	.51	4.08	30.60	MA3X71700LTR-ND◆	3,000	136.00/M
		40	500	0.55	500	MA3X72000LCT-ND◆	.57	4.60	34.47	MA3X72000LTR-ND◆	3,000	153.00/M
		30	200	0.55	200	MA3X72100LCT-ND◆	.46	3.64	27.32	MA3X72100LTR-ND◆	3,000	121.00/M
		50	200	0.55	200	MA3X72700LCT-ND◆	.57	4.29	32.19	MA3X72700LTR-ND◆	3,000	186.00/M
		20	500	0.50	500	MA3X74800LCT-ND◆	.59	4.70	35.22	MA3X74800LTR-ND◆	3,000	156.00/M
		30	100	0.55	100	MA3X78600LCT-ND◆	.49	3.92	29.42	MA3X78600LTR-ND◆	3,000	130.00/M
		50	100	0.55	100	MA3X78700LCT-ND	.44	3.54	26.56	MA3X78700LTR-ND	3,000	118.00/M
		60	500	0.65	500	MA3X78900LCT-ND◆	.59	4.41	33.10	MA3X78900LTR-ND◆	3,000	191.00/M
		20	1,000	0.45	1	MA3XD1100LCT-ND◆	.59	4.72	35.41	MA3XD1100LTR-ND◆	3,000	157.00/M
		20	1,000	0.45	1	MA3XD1500LCT-ND◆	.52	3.90	29.22	MA3XD1500LTR-ND◆	3,000	169.00/M
		100	300	0.58	300	MA3XD1700LCT-ND◆	.53	4.00	30.04	—	—	—
		15	1,000	0.40	500	MA3XD2100LCT-ND◆	.50	3.76	28.22	MA3XD2100LTR-ND◆	3,000	163.00/M
		60	200	0.65	200	MA3X78800LCT-ND	.50	3.78	28.33	MA3X78800LTR-ND	3,000	164.00/M
3	Dual Com Anode	30	30	0.40	1	MA3X704D0LCT-ND◆	.69	5.20	39.00	MA3X704D0LTR-ND◆	3,000	225.00/M
			110/150	0.30	1	MA3X717D0LCT-ND◆	.89	6.70	50.28	MA3X717D0LTR-ND◆	3,000	291.00/M
			130/200	0.55	130/200	MA3X721D0LCT-ND	.83	6.24	46.82	MA3X721D0LTR-ND	3,000	270.00/M
			200/300	0.55	200/300	MA3X786D0LCT-ND◆	.64	4.80	36.04	MA3X786D0LTR-ND◆	3,000	208.00/M
4	Dual Com Cathode	30	30	0.40	1	MA3X704E0LCT-ND◆	.69	5.20	39.00	MA3X704E0LTR-ND◆	3,000	225.00/M
			110/150	0.30	1	MA3X717E0LCT-ND◆	.89	6.70	50.28	MA3X717E0LTR-ND◆	3,000	291.00/M
4	Dual	30	130/200	0.55	130/200	MA3X721E0LCT-ND	.83	6.24	46.82	MA3X721E0LTR-ND	3,000	270.00/M
5	Dual Series	30	200/300	0.55	200/300	MA3X786E0LCT-ND◆	.64	4.80	36.04	MA3X786E0LTR-ND◆	3,000	208.00/M
			20/30	0.30	1	MA3X71500LCT-ND◆	.74	5.59	41.90	MA3X71500LTR-ND◆	3,000	242.00/M
			20/30	0.40	1	MA3X71600LCT-ND◆	.60	4.51	33.85	MA3X71600LTR-ND◆	3,000	196.00/M
			220/300	0.55	220/300	MA3X74000LCT-ND◆	.93	6.94	52.09	MA3X74000LTR-ND◆	3,000	301.00/M
Mini Type 4-Pin												
6	Dual	50	150/200	0.55	150/200	MA4X74600LCT-ND◆	.46	3.41	25.61	MA4X74600LTR-ND◆	3,000	151.00/M
		30	20/30	0.40	1	MA4X71300LCT-ND◆	.61	4.55	34.11	MA4X71300LTR-ND◆	3,000	197.00/M
		30	150	0.55	150	MA4X72400LCT-ND	.68	5.11	38.32	MA4X72400LTR-ND	3,000	221.00/M
		50	70/100	0.55	70/100	MA4X79600LCT-ND◆	.63	4.72	35.42	MA4X79600LTR-ND◆	3,000	205.00/M
		35	75/100	1.0	100	MA4X86200LCT-ND◆	.52	3.93	29.51	MA4X86200LTR-ND◆	3,000	170.00/M
1	Dual	30	150/200	0.55	150/200	MA4X72600LCT-ND	.92	6.91	51.85	MA4X72600LTR-ND	3,000	300.00/M
7	Dual	30	20/30	0.40	1	MA4X71400LCT-ND◆	.74	5.52	41.43	MA4X71400LTR-ND◆	3,000	239.00/M
Mini Type 6-Pin — RoHS Compliant												
8	Triple	30	30	0.40	1	MA6X71800LCT-ND	.87	7.23	57.83	MA6X71800LTR-ND	3,000	376.00/M
S-Mini Type 2-Pin — RoHS Compliant												
1	Single	20	200	0.47	1	MA2SD1900LCT-ND	.48	3.84	28.77	MA2SD1900LTR-ND	3,000	128.00/M
		40	500	0.55	500	MA2Z72000LCT-ND	.48	3.84	28.77	MA2Z72000LTR-ND	3,000	128.00/M
		20	300	0.40	300	MA2Z74800LCT-ND	.41	3.25	24.35	MA2Z74800LTR-ND	3,000	108.00/M
		20	500	0.40	10	MA2ZD0200LCT-ND	.54	4.31	32.31	MA2ZD0200LTR-ND	3,000	143.00/M
		20	100	0.27	5	MA2ZD1400LCT-ND	.44	3.69	29.51	MA2ZD1400LTR-ND	3,000	118.00/M
		30	1,000	0.36	700	MA21D3400LCT-ND‡	.67	5.06	37.92	MA21D3400LTR-ND‡	3,000	219.00/M
		30	1,000	0.34	500	MA21D3800LCT-ND	.60	4.51	33.81	MA21D3800LTR-ND	3,000	195.00/M
		20	500	0.42	500	MA2ZD1800LCT-ND	.41	3.25	24.35	MA2ZD1800LTR-ND	3,000	108.00/M
		20	200	0.55	200	MA2J70400LCT-ND	.49	3.68	27.58	MA2J70400LTR-ND	3,000	159.00/M
		50	200	0.36	30	MA2J72700LCT-ND	.82	6.15	46.11	MA2J72700LTR-ND	3,000	266.00/M
		30	30	0.40	1	MA2J72800LCT-ND	.47	3.94	31.54	MA2J72800LTR-ND	3,000	126.00/M
		30	200	0.55	200	MA2J72900LCT-ND	.56	4.48	33.60	MA2J72900LTR-ND	3,000	149.00/M
		30	30	0.30	1	MA2J73200LCT-ND	.44	3.50	26.21	MA2J73200LTR-ND	3,000	116.00/M

* mArms § VRRM † Tape and Box ‡ S-Mini2-F2 Package ◆ ***RoHS Compliant***

(Continued)

Panasonic

Schottky Barrier Diodes – Silicon Epitaxial Planar Type *(Cont.)*

Fig.	Description	VR (V)	IF (mA)	VF		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel	
				(V)	@mA		1	10	100		Qty.	Pricing
2	Single	30	100	0.55	100	MA2Z78400LCT-ND	.46	3.86	30.90	MA2Z78400LTR-ND	3,000	124.00/M
		50	100	0.55	100	MA2Z78500LCT-ND	.45	3.58	26.85	MA2Z78500LTR-ND	3,000	119.00/M
S-Mini Type 3-Pin												
2	Single	40	500	0.55	500	MA3J70000LCT-ND◆	.54	4.35	32.65	MA3J70000LTR-ND◆	3,000	145.00/M
		20	500	0.55	500	MA3J70200LCT-ND	.54	4.33	32.50	MA3J70200LTR-ND	3,000	144.00/M
		30	30	0.40	1	MA3J74100LCT-ND	.48	3.80	28.51	MA3J74100LTR-ND	3,000	126.00/M
		30	200	0.55	200	MA3J74400LCT-ND	.56	4.20	31.51	MA3J74400LTR-ND	3,000	182.00/M
		30	30	0.30	1	MA3J74500LCT-ND	.65	4.90	36.78	MA3J74500LTR-ND	3,000	212.00/M
		20	700	0.45	700	MA3ZD1200LCT-ND◆	.58	4.60	34.52	MA3ZD1200LTR-ND◆	3,000	153.00/M
		30	100	0.55	100	MA3Z79200LCT-ND◆	.41	3.28	24.59	MA3Z79200LTR-ND◆	3,000	109.00/M
3	Dual Com Anode	30	20/30	0.40	1	MA3J741D0LCT-ND	.60	4.53	33.96	MA3J741D0LTR-ND	3,000	196.00/M
			20/30	0.30	1	MA3J745D0LCT-ND◆	.62	4.62	34.65	MA3J745D0LTR-ND◆	3,000	200.00/M
			70/100	0.55	70/100	MA3Z792D0LCT-ND◆	.50	4.02	30.16	MA3Z792D0LTR-ND◆	3,000	134.00/M
4	Dual Com Cathode	30	20/30	0.40	1	MA3J741E0LCT-ND◆	.60	4.53	33.96	MA3J741E0LTR-ND◆	3,000	196.00/M
			20/30	0.30	1	MA3J745E0LCT-ND◆	.62	4.62	34.65	MA3J745E0LTR-ND◆	3,000	200.00/M
			70/100	0.55	70/100	MA3Z792E0LCT-ND◆	.50	4.02	30.16	MA3Z792E0LTR-ND◆	3,000	134.00/M
5	Dual Series	30	20/30	0.40	1	MA3J74200LCT-ND◆	.63	4.72	35.42	MA3J74200LTR-ND◆	3,000	205.00/M
			70/100	0.55	70/100	MA3Z79300LCT-ND◆	.61	4.58	34.32	MA3Z79300LTR-ND◆	3,000	198.00/M
S-Mini Type 4-Pin												
9	Dual	30	20/30	0.40	1	MA4Z71300LCT-ND	.58	4.60	34.52	MA4Z71300LTR-ND	3,000	153.00/M
		20	75/100	0.27	5	MA4ZD1400LCT-ND◆	.52	4.13	30.98	MA4ZD1400LTR-ND◆	3,000	137.00/M
		45	75/100	0.60	75/100	MA4ZD0300LCT-ND◆	.50	3.76	28.22	MA4ZD0300LTR-ND◆	3,000	163.00/M
S-Mini Type 6-Pin — RoHS Compliant												
10	Triple	30	30	0.40	1	MA6Z71800LCT-ND	.68	5.09	38.18	MA6Z71800LTR-ND	3,000	221.00/M
Mini-Power Type 2-Pin — RoHS Compliant												
1	Single	30	1,500	0.37	1,000	MA2Q70500LCT-ND	.83	6.24	46.82	MA2Q70500LTR-ND	1,500	277.00/M
		30	1,000	0.50	1,000	MA2Q73500LCT-ND	.84	6.27	47.00	MA2Q73500LTR-ND	1,500	278.00/M
		40	1,000	0.55	1,000	MA2Q73600LCT-ND	.70	5.22	39.12	MA2Q73600LTR-ND	1,500	231.00/M
		40	1,500	0.55	2,000	MA2Q73800LCT-ND	.72	5.41	40.60	MA2Q73800LTR-ND	1,500	240.00/M
		90	700	0.80	700	MA2Q73900LCT-ND	.87	6.52	48.92	MA2Q73900LTR-ND	1,500	289.00/M
SS-Mini Type 2-Pin — RoHS Compliant												
1	Single	30	30	0.40	1	MA2S72800LCT-ND	.46	3.85	30.81	MA2S72800LTR-ND	3,000	123.00/M
		30	100	0.55	100	MA2S78400LCT-ND	.51	4.11	30.81	MA2S78400LTR-ND	3,000	137.00/M
		20	200	0.47	1	MA2SD1000LCT-ND	.51	4.11	30.81	MA2SD1000LTR-ND	3,000	137.00/M
		20	200	0.58	200	MA2SD2400LCT-ND	.48	3.84	28.77	MA2SD2400LTR-ND	3,000	128.00/M
		15	200	0.39	200	MA2SD2500LCT-ND	.48	3.86	28.92	MA2SD2500LTR-ND	3,000	118.00/M
		30	100	0.25	10	MA2SD2900LCT-ND	.48	3.83	28.69	MA2SD2900LTR-ND	3,000	127.00/M
		30	100	0.38	10	MA2SD3000LCT-ND	.48	3.83	28.69	MA2SD3000LTR-ND	3,000	127.00/M
		30	200	0.38	200	MA2SD3100LCT-ND	.51	4.10	30.74	MA2SD3100LTR-ND	3,000	136.00/M
		30	200	0.49	200	MA2SD3200LCT-ND	.51	4.10	30.74	MA2SD3200LTR-ND	3,000	136.00/M
		20	35	0.41	1	MA2SE0100LCT-ND	.55	4.43	33.20	MA2SE0100LTR-ND	3,000	147.00/M
SS-Mini Type 3-Pin												
2	Single	30	30	0.40	1	MA3S78100LCT-ND	.51	4.11	30.81	MA3S78100LTR-ND	3,000	137.00/M
			30	0.30	1	MA3S79500LCT-ND	.51	4.11	30.81	MA3S79500LTR-ND	3,000	137.00/M
3	Dual Com Anode	30	30	0.40	1	MA3S781D0LCT-ND	.62	4.62	34.63	MA3S781D0LTR-ND	3,000	200.00/M
			30	0.30	1	MA3S795D0LCT-ND◆	.62	4.62	34.63	MA3S795D0LTR-ND◆	3,000	200.00/M
4	Dual Com Cathode	30	30	0.40	1	MA3S781E0LCT-ND◆	.62	4.62	34.63	MA3S781E0LTR-ND◆	3,000	200.00/M
			20	0.30	1	MA3S795E0LCT-ND	.62	4.62	34.63	MA3S795E0LTR-ND	3,000	200.00/M
5	Dual Series	20	35/25	0.41	1	MA3SE0100LCT-ND◆	.55	4.14	31.03	MA3SE0100LTR-ND◆	3,000	179.00/M
		20	25/35	0.40	1	MA3SE0200LCT-ND◆	.71	5.31	39.84	MA3SE0200LTR-ND◆	3,000	230.00/M
		30	30/20	0.40	1	MA3S781F0LCT-ND◆	.57	4.27	32.06	MA3S781F0LTR-ND◆	3,000	185.00/M
		30	100/75	0.29	10	MA3SD29F0LCT-ND◆	.65	4.87	36.54	MA3SD29F0LTR-ND◆	3,000	211.00/M
SS-Mini Type 4-Pin — RoHS Compliant												
9	Dual	45	100	0.35	1	MA4SD05X0LCT-ND	.55	4.37	32.75	MA4SD05X0LTR-ND	3,000	145.00/M
		30	20/30	0.35	1	MA4SD0100LCT-ND	.53	4.25	31.87	MA4SD0100LTR-ND	3,000	141.00/M
		20	150	0.27	5	MA4SD1000LCT-ND	.87	6.52	48.88	MA4SD1000LTR-ND	3,000	282.00/M
SSS-Mini Type 2-Pin — RoHS Compliant												
1	Single	30	30	0.4	1	MA2772800LCT-ND	.45	3.60	27.00	MA2772800LTR-ND	10,000	113.00/M
		100	100	0.55	100	MA2778400LCT-ND	.53	4.25	31.87	MA2778400LTR-ND	10,000	133.00/M
		20	100	0.38	10	MA27D2700LCT-ND	.59	4.72	35.41	MA27D2700LTR-ND	10,000	148.00/M
		30	100	0.25	10	MA27D2900LCT-ND	.55	4.37	32.79	MA27D2900LTR-ND	10,000	137.00/M
		30	100	0.38	10	MA27D3000LCT-ND	.55	4.37	32.79	MA27D3000LTR-ND	10,000	137.00/M
		20	35	0.40	1	MA27E0200LCT-ND	.55	4.37	32.79	MA27E0200LTR-ND	10,000	137.00/M
SSS-Mini Type 3-Pin — RoHS Compliant												
4	Dual Com Cathode	30	20	0.3	1	MAS3795E0LCT-ND	.65	4.87	36.52	MAS3795E0LTR-ND	10,000	203.00/M
DO-34 — RoHS Compliant												
1	Single	15	30	0.4	1	MA2C70000FCT-ND	.59	4.46	30.93	MA2C70000FTB-ND†	2,000	107.07/M
		30	30	0.4	1	MA2C700A0FCT-ND	.44	3.52	26.44	MA2C700A0FTB-ND†	2,000	123.00/M
		40	500	0.55	500	MA2C71900ACT-ND	1.16	8.72	60.42	MA2C71900ATB-ND†	2,000	162.68/M
		30	200	0.55	200	MA2C72300FCT-ND	.91	6.85	47.48	MA2C72300FTB-ND†	2,000	127.82/M
TO-220D — RoHS Compliant												
11	Dual Com Cathode	40§	5,000	0.55	2,500	MA3D749-ND	1.15	9.58	76.61	—	—	—
		45§	5,000	0.55	2,500	MA3D749A-ND	1.24	10.34	82.74	—	—	—
		40§	10,000	0.55	5,000	MA3D750-ND	1.29	10.73	85.80	—	—	—
		45§	10,000	0.55	5,000	MA3D750A-ND	1.38	11.49	91.93	—	—	—
		40§	20,000	0.55	10,000	MA3D752-ND	1.69	13.48	101.12	—	—	—
		45§	20,000	0.55	10,000	MA3D752A-ND	1.95	15.63	117.21	—	—	—
		60§	10,000	0.58	5,000	MA3D756-ND	1.42	11.34	85.04	—	—	—
		90§	10,000	0.85	5,000	MA3D761-ND	1.99	15.93	119.51	—	—	—
		30§	10,000	0.47	5,000	MA3D799-ND	1.38	11.49	91.93	—	—	—
U-G2 — RoHS Compliant												
12	Dual Com Cathode	40§	5,000	0.55	2,500	MA3U74900LCT-ND	1.34	10.73	80.44	MA3U74900LTR-ND	3,000	686.00/M

* mArms § VRRM † Tape and Box ‡ S-Mini2-F2 Package ◆ ***RoHS Compliant***

Pin Diodes – Silicon Epitaxial Planar Type

RoHS

Dimensions in mm

Fig.	Descrip-tion	VR (V)	IF (mA)	VF		Ct (pF)	rf (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
				(V)	@mA				1	10	100		Qty.	Pricing
S-Mini Type 2-Pin														
1	Single	60	100	1.0	10	0.5	2.0	MA2JP0200LCT-ND	.58	4.60	34.52	MA2JP0200LTR-ND	3,000	153.00/M
SS-Mini Type 2-Pin														
2	Single	60	100	1.0	10	0.8	1.0	MA2SP0100LCT-ND	.59	4.72	35.41	MA2SP0100LTR-ND	3,000	157.00/M
			100	1.0	10	0.5	2.0	MA2SP0200LCT-ND	.59	4.72	35.41	MA2SP0200LTR-ND	3,000	157.00/M
			50	1.0	10	2.4	5.5	MA2SP0500LCT-ND	.55	4.37	32.79	MA2SP0500LTR-ND	3,000	145.00/M
			100	1.0	10	0.6	1.2	MA2SP0600LCT-ND	.55	4.37	32.79	MA2SP0600LTR-ND	3,000	145.00/M
SSS-Mini Type 2-Pin														
3	Single	60	100	1.0	10	0.8	1.0	MA27P0100LCT-ND	.53	3.98	29.88	MA27P0100LTR-ND	10,000	166.00/M
			100	1.0	10	0.5	2.0	MA27P0200LCT-ND	.53	3.98	29.88	MA27P0200LTR-ND	10,000	166.00/M
			100	1.0	10	.035	1.5	MA27P0700LCT-ND	.55	4.43	33.20	MA27P0700LTR-ND	10,000	138.00/M
			50	1.0	10	0.8	3.0	MA27P1100LCT-ND	.49	3.69	27.67	MA27P1100LTR-ND	10,000	154.00/M

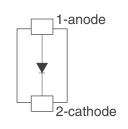

Fig. 1

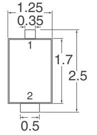

Fig. 2

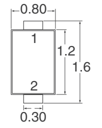

Fig. 3

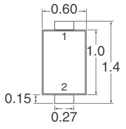

Panasonic

GaAs MMIC SP3T Switches

Pin Connection		
1 Gnd	5 GPS-Rx	9 Vctrl2
2 Ant	6 Gnd	10 Gnd
3 Gnd	7 Gnd	11 PCS-Tx/Rx
4 Vctrl3	8 CDMA-Tx/Rx	12 Vctrl1

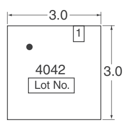

Dim. in mm

CDMA 1 (MHz)	PCS 2 (MHz)	GPS 3 (MHz)	PD (mW)	Vctrl(H)-Vctrl(L) (V)	Pin (CDMA, PCS) (dBm)	Pin (GPS) (dBm)	Topr (C°)	Tstg (C°)	Digi-Key Part No.	Cut Tape Price Each 1	10	100
824 ~ 894	1850 ~ 1990	1574 ~ 1577	150	+5	35	20	-30 ~ 90	-40 ~ 120	GN04042N0LCT-ND	3.10	2.48	1.93

Switching Diodes – Silicon Epitaxial Planar Type

Dimensions in mm

Mini Type (3-pin)
JEDEC: TO-236
EIAJ: SC-59

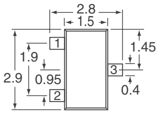

Mini Type (4-pin)

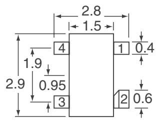

Mini Type (6-pin)

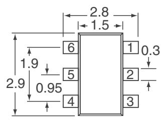

S-Mini Type (2-pin)

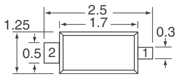

S-Mini Type (3-pin)
EIAJ: SC-70

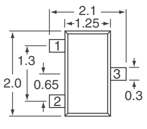

S-Mini Type (4-pin)

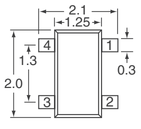

S-Mini Type (5-pin)

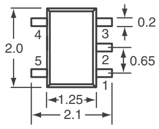

S-Mini Type (6-pin)

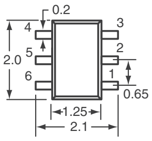

SS-Mini Type (2-pin)

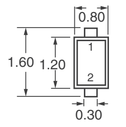

SS-Mini Type (3-pin)

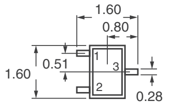

SS-Mini Type (4-pin)

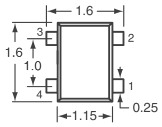

SSS-Mini Type (2-pin)

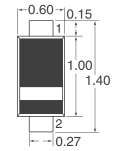

SSS-Mini Type (3-pin)

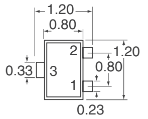

USS-Mini Type (2-pin)

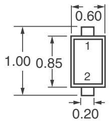

DO-34

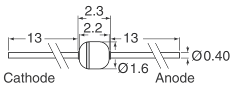

Fig. 1

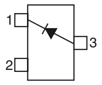

Fig. 2

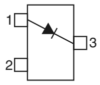

Fig. 3

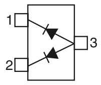

Fig. 4

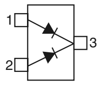

Fig. 5

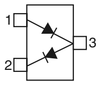

Fig. 6

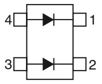

Fig. 7

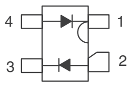

Fig. 8

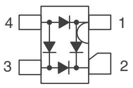

Fig. 9

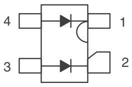

Fig. 10

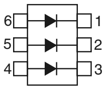

Fig. 11

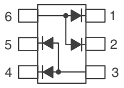

Fig. 12

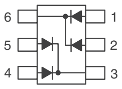

Fig. 13

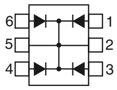

Fig. 14

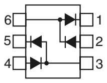

Fig. 15

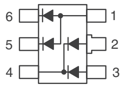

Fig. 16

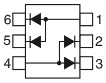

Fig. 17

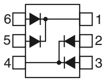

Fig. 18

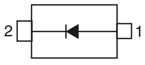

Fig. 19

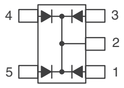

Fig. 20

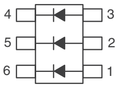

Fig. 21

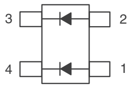

Fig.	Package	Description	VR (V)	IF (mA)	IR (µA)	trr max. (ns)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
1	Mini 3P	Single	80	100	0.1	3	MA3X152A0LCT-ND◆	.39	2.95	20.47	MA3X152A0LTR-ND◆	3,000	79.00/M
2		Single		100		3	MA3X152K0LCT-ND◆	.39	2.95	20.47	MA3X152K0LTR-ND◆	3,000	79.00/M
3		Dual Com Anode		100		10	MA3X152D0LCT-ND◆	.37	2.88	20.26	MA3X152D0LTR-ND◆	3,000	83.00/M
4		Dual Com Cathode		100		3	MA3X152E0LCT-ND◆	.37	2.88	20.26	MA3X152E0LTR-ND◆	3,000	83.00/M
5		Dual Series		65		150/9‡	MA3X153A0LCT-ND◆	.32	2.60	17.85	MA3X153A0LTR-ND◆	3,000	84.00/M
5		Dual Series	80	100	0.1	3	MA3X157A0LCT-ND◆	.40	3.10	21.82	MA3X157A0LTR-ND◆	3,000	89.00/M
2		Single	200	100	1	–	MA3X15800LCT-ND	.52	4.19	31.43	MA3X15800LTR-ND	3,000	139.00/M
5		Dual Series	40	75	0.01	100	MA3X19800LCT-ND◆	.39	3.18	21.79	MA3X19800LTR-ND◆	3,000	103.00/M
2		Single	200	100	1	60	MA3X19900LCT-ND◆	.49	3.65	27.36	MA3X19900LTR-ND◆	3,000	158.00/M
6	Mini 4P	Dual	80	75	0.1	3	MA4X159A0LCT-ND◆	.47	3.76	28.19	MA4X159A0LTR-ND◆	3,000	125.00/M
7		Dual	40	100	0.1	3	MA4X16000LCT-ND◆	.60	4.78	35.85	MA4X16000LTR-ND◆	3,000	159.00/M
7		Dual	80	100	0.1	3	MA4X160A0LCT-ND◆	.60	4.78	35.85	MA4X160A0LTR-ND◆	3,000	159.00/M
6		Dual	200	100	1	–	MA4X17400LCT-ND◆	.66	4.99	37.40	MA4X17400LTR-ND◆	3,000	216.00/M
8		Quad	80	70	0.1	10	MA4X19300LCT-ND◆	.70	5.24	39.30	MA4X19300LTR-ND◆	3,000	227.00/M
9		Dual	40	100	0.01	100	MA4X19400LCT-ND◆	.74	5.52	41.37	MA4X19400LTR-ND◆	3,000	239.00/M
10	Mini 6P	Triple	80	100	0.1	3	MA6X12100LCT-ND◆	.50	4.00	30.01	MA6X12100LTR-ND◆	3,000	133.00/M
11		Quad	80			10	MA6X12200LCT-ND◆	.59	4.41	33.10	MA6X12200LTR-ND◆	3,000	191.00/M
12		Quad	80			3	MA6X12300LCT-ND◆	.59	4.41	33.10	MA6X12300LTR-ND◆	3,000	191.00/M
13		Quad	80			3	MA6X12400LCT-ND	.69	5.21	39.06	MA6X12400LTR-ND	3,000	226.00/M
14		Quad	40			150/9‡	MA6X12500LCT-ND◆	.72	5.43	40.69	MA6X12500LTR-ND◆	3,000	235.00/M
15		Quad	80	100	0.1	10	MA6X12600LCT-ND◆	.59	4.41	33.10	MA6X12600LTR-ND◆	3,000	191.00/M
16		Quad	80	100	0.1	10	MA6X12700LCT-ND◆	.45	3.63	27.20	MA6X12700LTR-ND◆	3,000	121.00/M
17		Quad	80	100	0.1	3	MA6X12800LCT-ND◆	.44	3.54	26.57	MA6X12800LTR-ND◆	3,000	118.00/M
10		Triple	200	200	0.2	–	MA6X12900LCT-ND◆	.66	4.96	37.23	MA6X12900LTR-ND◆	3,000	215.00/M
18	S-Mini 2P	Single	80	100	0.1	3	MA2J11100LCT-ND◆	.34	2.58	17.86	MA2J11100LTR-ND◆	3,000	69.00/M
18			40	200	0.5	10	MA2J11200LCT-ND◆	.43	3.46	25.94	MA2J11200LTR-ND◆	3,000	115.00/M
18			80	200	0.5	10	MA2J11300LCT-ND◆	.41	3.30	22.60	MA2J11300LTR-ND◆	3,000	107.00/M
18			150	200	0.2	–	MA2J11400LCT-ND◆	.61	4.58	34.35	MA2J11400LTR-ND◆	3,000	198.00/M
18			200	200	0.2	–	MA2J11500LCT-ND◆	.39	2.93	21.97	MA2J11500LTR-ND◆	3,000	124.00/M
18		Single	40	100	0.01	100	MA2J11600LCT-ND◆	.45	3.57	26.77	MA2J11600LTR-ND◆	3,000	119.00/M
18			200		0.1	60	MA2Z00100LCT-ND◆	.49	3.69	27.67	MA2Z00100LTR-ND◆	3,000	160.00/M
1	S-Mini 3P	Single	80	100	0.1	3	MA3J142A0LCT-ND◆	.33	2.61	18.36	MA3J142A0LTR-ND◆	3,000	75.00/M
2							MA3J142K0LCT-ND◆	.33	2.61	18.36	MA3J142K0LTR-ND◆	3,000	75.00/M

◆ ***RoHS Compliant*** † Tape and Box ‡ Typical

(Continued)

Panasonic Switching Diodes – Silicon Epitaxial Planar Type *(Cont.)*

Fig.	Package	Description	VR (V)	IF (mA)	IR (µA)	trr (ns)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
2	S-Mini 3P	Single	200	100	1.0	60	MA3X10000LCT-ND◆	.58	4.66	34.94	MA3X10000LTR-ND◆	3,000	155.00/M
3		Dual Com Anode	80	100	0.1	10	MA3J142D0LCT-ND◆	.36	2.88	19.76	MA3J142D0LTR-ND◆	3,000	99.00/M
4		Dual Com Cathode	80	100	0.1	3	MA3J142E0LCT-ND◆	.36	2.88	19.76	MA3J142E0LTR-ND◆	3,000	99.00/M
5		Dual Series	40	65	0.1	150/9‡	MA3J14300LCT-ND◆	.38	3.11	21.32	MA3J14300LTR-ND◆	3,000	101.00/M
5		Dual Series	80	65	0.1	150/9‡	MA3J143A0LCT-ND◆	.38	3.11	21.32	MA3J143A0LTR-ND◆	3,000	101.00/M
5		Dual Series	80	65	0.1	3	MA3J14700LCT-ND◆	.44	3.50	26.21	MA3J14700LTR-ND◆	3,000	116.00/M
6	S-Mini 4P	Dual	80	75	0.1	3	MA4Z15900LCT-ND◆	.44	3.54	26.54	MA4Z15900LTR-ND◆	3,000	118.00/M
19	S-Mini 5P	Quad	80	100	0.1	3	MA5J002E0LCT-ND◆	.54	4.29	32.18	MA5J002E0LTR-ND◆	3,000	143.00/M
20	S-Mini 6P	Triple	80	100	0.1	3	MA6Z12100LCT-ND◆	.51	3.86	28.96	MA6Z12100LTR-ND◆	3,000	167.00/M
18	SS-Mini 2P	Single	250	100	1.0	60	MA2S10100LCT-ND◆	.51	4.04	30.34	MA2S10100LTR-ND◆	3,000	134.00/M
18			80	100	0.1	3	MA2S11100LCT-ND◆	.36	2.82	19.86	MA2S11100LTR-ND◆	3,000	81.00/M
1	SS-Mini 3P	Single	80	100	0.1	3	MA3S132A0LCT-ND	.36	2.80	19.73	MA3S132A0LTR-ND	3,000	81.00/M
2		Single	80	100	0.1	3	MA3S132K0LCT-ND◆	.36	2.80	19.73	MA3S132K0LTR-ND◆	3,000	81.00/M
3		Dual Com Anode	80	100	0.1	10	MA3S132D0LCT-ND	.37	3.03	20.77	MA3S132D0LTR-ND	3,000	98.00/M
4		Dual Com Cathode	80	100	0.1	3	MA3S132E0LCT-ND◆	.37	3.03	20.77	MA3S132E0LTR-ND◆	3,000	98.00/M
5		Dual Series	80	65	0.1	150/9	MA3S13300LCT-ND◆	.42	3.33	25.01	MA3S13300LTR-ND◆	3,000	111.00/M
5		Dual Series	80	65	0.1	3	MA3S13700LCT-ND	.42	3.33	25.01	MA3S13700LTR-ND	3,000	111.00/M
21	SS-Mini 4P	Dual	80	100	0.1	3	MA4S11100LCT-ND◆	.51	4.04	30.34	MA4S11100LTR-ND◆	3,000	134.00/M
18	SSS-Mini 2P	Single	35	100	0.1	—	MA2707700LCT-ND◆	.38	2.87	19.92	MA2707700LTR-ND◆	10,000	61.00/M
18			80			3	MA2711100LCT-ND◆	.44	3.69	29.51	MA2711100LTR-ND◆	10,000	103.00/M
4	SSS-Mini 3P	Dual Com Cathode	80	100	0.1	3	MAS3132E0LCT-ND◆	.51	4.10	30.74	MAS3132E0LTR-ND◆	10,000	128.00/M
18	USS-Mini 2P	Single	80	100	0.1	3	MAU211100BCT-ND◆	.49	3.68	27.63	MAU211100BTR-ND◆	10,000	154.00/M
18			30	100	25	1‡	MAU2D2900BCT-ND◆	.49	3.68	27.63	MAU2D2900BTR-ND◆	10,000	154.00/M
18			30	100	0.3	1‡	MAU2D3000BCT-ND◆	.49	3.68	27.63	MAU2D3000BTR-ND◆	10,000	154.00/M
18	DO-34	Single	35	100	0.1	10	MA2C16500ECT-ND◆	.27	2.03	14.07	MA2C16500ETB-ND†◆	5,000	49.00/M
18			35	100	0.1	—	MA2C85600ECT-ND◆	.49	3.69	27.67	MA2C85600ETB-ND†◆	5,000	157.00/M
18			50	100	.025	2.2‡	MA2C16600ECT-ND◆	.24	1.82	12.59	MA2C16600ETB-ND†◆	5,000	48.42/M
18			75	100	.025	2.2‡	MA2C16700ECT-ND◆	.28	2.08	14.39	MA2C16700ETB-ND†◆	5,000	49.81/M
18			40	200	.500	20	MA2C17800ECT-ND◆	.47	3.53	24.46	MA2C17800ETB-ND†◆	5,000	79.96/M
18		Single	80	200	.500	20	MA2C17900ECT-ND◆	.64	4.77	33.09	MA2C17900ETB-ND†◆	5,000	101.81/M
18			200	200	.001	—	MA2C18500ECT-ND◆	.36	2.70	18.70	MA2C18500ETB-ND†◆	5,000	64.73/M
18			200	200	.200	60	MA2C18800ECT-ND◆	.42	3.11	21.58	MA2C18800ETB-ND†◆	5,000	70.55/M
18			35	100	.005	0.20ms	MA2C19500ECT-ND◆	.25	1.87	12.95	MA2C19500ETB-ND†◆	5,000	49.80/M
18			50	100	.005	0.20ms	MA2C19600ECT-ND◆	.25	1.87	12.95	MA2C19600ETB-ND†◆	5,000	49.80/M
18		Single	35	100	.100	—	MA2C85800ECT-ND◆	.59	4.46	30.93	MA2C85800ETB-ND†◆	5,000	95.17/M
18							MA2C85900ECT-ND◆	.69	5.19	35.97	—	—	—

◆ ***RoHS Compliant*** † Tape and Box ‡ Typical

Silicon Planar Type Trigger Device

Features:
- Satisfactory symmetry of break over voltage V_{B0}
- Large output voltage V0 and small break over current IB0

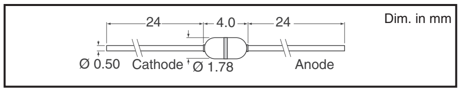

Package	V_{B0} (V) min.	V_0 (V) typical	I_{B0} (µA) max.	T.C. (V_{B0}) %/°C	V_{B0} (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Qty.	Pricing
DO-35	28	7.0	50	0.1	3.5	MA2B00100FCT-ND	.69	5.16	38.73	MA2B00100FTB-ND	2,000	229.00/M

Zener Diodes Silicon Planar Type

Dim. in mm

Zener Voltage VZ Min.	Nom.	Max.	IZ (mA)	RZ (max.) (Ohms)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
Mini Type Package 3 Pin — MA3000 Series - 200mW											
2.28	2.4	2.6	5	100	MAZ302400LCT-ND◆	.37	2.99	20.47	MAZ302400LTR-ND◆	3,000	97.00/M
2.5	2.7	2.9		110	MAZ30270HLCT-ND	.37	2.99	20.47	MAZ30270HLTR-ND	3,000	97.00/M
2.8	3.0	3.2		120	MAZ30300HLCT-ND	.37	2.99	20.47	MAZ30300HLTR-ND	3,000	97.00/M
3.1	3.3	3.5		130	MAZ30330HLCT-ND◆	.37	2.99	20.47	MAZ30330HLTR-ND◆	3,000	97.00/M
3.4	3.6	3.8		130	MAZ30360HLCT-ND	.37	2.99	20.47	MAZ30360HLTR-ND	3,000	97.00/M
3.7	3.9	4.1	5	130	MAZ30390HLCT-ND◆	.37	2.99	20.47	MAZ30390HLTR-ND◆	3,000	97.00/M
4.0	4.3	4.6		130	MAZ30430MLCT-ND	.37	2.99	20.47	MAZ30430MLTR-ND	3,000	97.00/M
4.4	4.7	5.0		80	MAZ30470MLCT-ND	.37	2.99	20.47	MAZ30470MLTR-ND	3,000	97.00/M
4.8	5.1	5.4		60	MAZ30510MLCT-ND◆	.37	2.99	20.47	MAZ30510MLTR-ND◆	3,000	97.00/M
5.3	5.6	6.0		40	MAZ30560MLCT-ND◆	.37	2.99	20.47	MAZ30560MLTR-ND◆	3,000	97.00/M
5.8	6.2	6.6	5	20	MAZ30620MLCT-ND◆	.37	2.99	20.47	MAZ30620MLTR-ND◆	3,000	97.00/M
6.4	6.8	7.2		15	MAZ30680MLCT-ND	.37	2.99	20.47	MAZ30680MLTR-ND	3,000	97.00/M
7.0	7.5	7.9		15	MAZ30750MLCT-ND◆	.37	2.99	20.47	MAZ30750MLTR-ND◆	3,000	97.00/M
7.7	8.2	8.7		15	MAZ30820MLCT-ND	.37	2.99	20.47	MAZ30820MLTR-ND	3,000	97.00/M
8.5	9.1	9.6		15	MAZ30910MLCT-ND	.37	2.99	20.47	MAZ30910MLTR-ND	3,000	97.00/M
9.4	10	10.6	5	20	MAZ31000MLCT-ND◆	.37	2.99	20.47	MAZ31000MLTR-ND◆	3,000	97.00/M
10.4	11	11.6		20	MAZ31100MLCT-ND◆	.37	2.99	20.47	MAZ31100MLTR-ND◆	3,000	97.00/M
11.4	12	12.7		25	MAZ31200MLCT-ND◆	.37	2.99	20.47	MAZ31200MLTR-ND◆	3,000	97.00/M
12.4	13	14.1		30	MAZ31300MLCT-ND	.37	2.99	20.47	MAZ31300MLTR-ND	3,000	97.00/M
13.65	14	14.35		30	MAZ31400MLCT-ND◆	.37	2.99	20.47	MAZ31400MLTR-ND◆	3,000	97.00/M
13.9	14.3	14.76	5	30	MAZ31500LLCT-ND◆	.37	2.96	20.29	MAZ31500LLTR-ND◆	3,000	96.00/M
13.9	15	15.6		30	MAZ31500MLCT-ND◆	.37	2.99	20.47	MAZ31500MLTR-ND◆	3,000	97.00/M
15.3	16	17.1		40	MAZ31600MLCT-ND	.37	2.99	20.47	MAZ31600MLTR-ND	3,000	97.00/M
16.9	18	19.1		45	MAZ31800MLCT-ND	.37	2.99	20.47	MAZ31800MLTR-ND	3,000	97.00/M
18.8	20	21.2		55	MAZ32000MLCT-ND◆	.37	2.99	20.47	MAZ32000MLTR-ND◆	3,000	97.00/M
20.8	22	23.3	5	55	MAZ32200MLCT-ND	.37	2.99	20.47	MAZ32200MLTR-ND	3,000	97.00/M
22.8	24	25.6		70	MAZ32400MLCT-ND	.37	2.99	20.47	MAZ32400MLTR-ND	3,000	97.00/M
25.1	27	28.9		80	MAZ32700MLCT-ND◆	.37	2.99	20.47	MAZ32700MLTR-ND◆	3,000	97.00/M
28	30	32		80	MAZ33000MLCT-ND	.37	2.99	20.47	MAZ33000MLTR-ND	3,000	97.00/M
31	33	35		80	MAZ33300MLCT-ND	.37	2.99	20.47	MAZ33300MLTR-ND	3,000	97.00/M
34	36	38		90	MAZ33600MLCT-ND	.37	2.99	20.47	MAZ33600MLTR-ND	3,000	97.00/M
Mini Type Package 3 Pin — Dual Element - 200mW											
5.9	6.2	6.5	5	30	MAZC062D0LCT-ND	.50	4.21	33.66	MAZC062D0LTR-ND	3,000	112.00/M
5.8	6.2	6.6		50	MAZ9062H0LCT-ND◆	.51	4.10	30.74	MAZ9062H0LTR-ND◆	3,000	136.00/M
6.4	6.8	7.2		30	MAZ9068H0LCT-ND◆	.51	4.10	30.74	MAZ9068H0LTR-ND◆	3,000	136.00/M
11.4	12	12.7		30	MAZ9120H0LCT-ND◆	.51	4.10	30.74	MAZ9120H0LTR-ND◆	3,000	136.00/M
Mini Type 5-Pin Package — 200mW											
6.4	6.8	7.2	5	30	MAZL068H0LCT-ND	.61	4.90	36.73	MAZL068H0LTR-ND	3,000	159.00/M
11.4	12	12.7			MAZL120H0LCT-ND	.61	4.90	36.73	MAZL120H0LTR-ND	3,000	159.00/M
S-Mini Type Package 2 Pin — MA8000 Series - 150mW — RoHS Compliant											
2.28	2.4	2.6	5	100	MAZ802400LCT-ND	.43	3.32	23.40	MAZ802400LTR-ND	3,000	96.00/M

◆ ***RoHS Compliant*** † Tape and Box

Mini Type Package (3-pin)

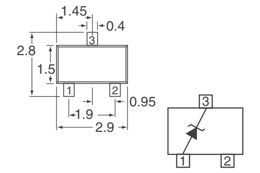

Mini Type Package (3-pin) Dual Element

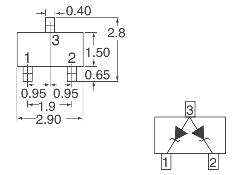

Mini Type (5-pin) Package - 200mW

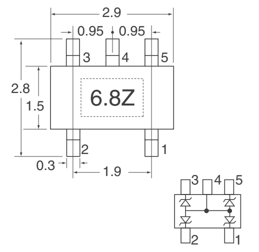

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Panasonic Zener Diodes Silicon Planar Type *(Cont.)*

Zener Voltage VZ			IZ	RZ (max.)	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel	
Min.	Nom.	Max.	(mA)	(Ohms)	Part No.	1	10	100	Part No.	Qty.	Pricing
2.5	2.7	2.9	5	110	MAZ80270HLCT-ND◆	.43	3.32	23.40	MAZ80270HLTR-ND◆	3,000	96.00/M
2.8	3.0	3.2		120	MAZ80300HLCT-ND◆	.43	3.32	23.40	MAZ80300HLTR-ND◆	3,000	96.00/M
3.1	3.3	3.5		130	MAZ80330HLCT-ND◆	.38	2.95	20.77	MAZ80330HLTR-ND◆	3,000	85.00/M
3.4	3.6	3.8		130	MAZ80360HLCT-ND◆	.43	3.32	23.40	MAZ80360HLTR-ND◆	3,000	96.00/M
3.7	3.9	4.1		130	MAZ80390HLCT-ND◆	.43	3.32	23.40	MAZ80390HLTR-ND◆	3,000	96.00/M
4.0	4.3	4.6	5	130	MAZ80430MLCT-ND◆	.43	3.32	23.40	MAZ80430MLTR-ND◆	3,000	96.00/M
4.4	4.7	5.0		80	MAZ80470MLCT-ND◆	.43	3.32	23.40	MAZ80470MLTR-ND◆	3,000	96.00/M
4.8	5.1	5.4		60	MAZ80510MLCT-ND◆	.43	3.32	23.40	MAZ80510MLTR-ND◆	3,000	96.00/M
5.3	5.6	6.0		40	MAZ80560MLCT-ND◆	.43	3.32	23.40	MAZ80560MLTR-ND◆	3,000	96.00/M
5.8	6.2	6.6		30	MAZ80620MLCT-ND◆	.43	3.32	23.40	MAZ80620MLTR-ND◆	3,000	96.00/M
6.4	6.8	7.2	5	20	MAZ80680MLCT-ND◆	.43	3.32	23.40	MAZ80680MLTR-ND◆	3,000	96.00/M
7.0	7.5	7.9		20	MAZ80750MLCT-ND◆	.43	3.32	23.40	MAZ80750MLTR-ND◆	3,000	96.00/M
7.7	8.2	8.7		20	MAZ80820MLCT-ND◆	.43	3.32	23.40	MAZ80820MLTR-ND◆	3,000	96.00/M
8.50	9.1	9.6		20	MAZ80910MLCT-ND◆	.43	3.32	23.40	MAZ80910MLTR-ND◆	3,000	96.00/M
9.4	10	10.6		30	MAZ81000MLCT-ND◆	.43	3.32	23.40	MAZ81000MLTR-ND◆	3,000	96.00/M
10.4	11	11.6	5	30	MAZ81100MLCT-ND◆	.43	3.32	23.40	MAZ81100MLTR-ND◆	3,000	96.00/M
11.4	12	12.7		30	MAZ81200MLCT-ND◆	.43	3.32	23.40	MAZ81200MLTR-ND◆	3,000	96.00/M
12.4	13	14.1		35	MAZ81300MLCT-ND◆	.43	3.32	23.40	MAZ81300MLTR-ND◆	3,000	96.00/M
13.65	14	14.35		40	MAZ81400MLCT-ND◆	.43	3.32	23.40	MAZ81400MLTR-ND◆	3,000	96.00/M
13.9	15	15.6		40	MAZ81500MLCT-ND◆	.43	3.32	23.40	MAZ81500MLTR-ND◆	3,000	96.00/M
15.3	16	17.1	5	50	MAZ81600MLCT-ND◆	.43	3.32	23.40	MAZ81600MLTR-ND◆	3,000	96.00/M
16.9	18	19.1		60	MAZ81800MLCT-ND◆	.43	3.32	23.40	MAZ81800MLTR-ND◆	3,000	96.00/M
18.8	20	21.2		80	MAZ82000MLCT-ND◆	.43	3.32	23.40	MAZ82000MLTR-ND◆	3,000	96.00/M
20.8	22	23.3		80	MAZ82200MLCT-ND	.43	3.32	23.40	MAZ82200MLTR-ND	3,000	96.00/M
22.8	24	25.6		100	MAZ82400MLCT-ND	.43	3.32	23.40	MAZ82400MLTR-ND	3,000	96.00/M
25.3	26	26.7	2	120	MAZ82700LLCT-ND◆	.38	2.97	20.89	MAZ82700LLTR-ND◆	3,000	85.00/M
28	30	32		160	MAZ83000MLCT-ND	.38	2.95	20.77	MAZ83000MLTR-ND	3,000	85.00/M
31	33	35		200	MAZ83300MLCT-ND◆	.43	3.32	23.40	MAZ83300MLTR-ND◆	3,000	96.00/M
34	36	38		250	MAZ83600MLCT-ND	.43	3.32	23.40	MAZ83600MLTR-ND	3,000	96.00/M
38	39	40		300	MAZ83900MLCT-ND◆	.34	2.63	18.55	MAZ83900MLTR-ND◆	3,000	76.00/M
S-Mini Type Package 3 Pin — 150mW — RoHS Compliant											
5.9	6.2	6.5	5	30	MAZE062D0LCT-ND	.60	4.78	35.86	MAZE062D0LTR-ND	3,000	159.00/M
S-Mini Type Package 5-Pin — MAZZ000H Series — 200mW — RoHS Compliant											
6.4	6.8	7.2	5	30	MAZZ068H0LCT-ND	.49	3.67	27.54	MAZZ068H0LTR-ND	3,000	159.00/M
7.7	8.2	8.7			MAZZ082H0LCT-ND	.59	4.43	33.20	MAZZ082H0LTR-ND	3,000	192.00/M
11.4	12.0	12.7			MAZZ120H0LCT-ND	.59	4.43	33.20	MAZZ120H0LTR-ND	3,000	192.00/M
SS-Mini Type Package 2-Pin — MAZS000 Series — 150mW											
2.28	2.4	2.6	5	100	MAZS02400LCT-ND◆	.39	3.13	21.49	MAZS02400LTR-ND◆	3,000	101.00/M
2.5	2.6	2.75		110	MAZS0270LLCT-ND◆	.40	3.34	26.74	MAZS0270LLTR-ND◆	3,000	107.00/M
2.8	2.9	3.05		120	MAZS0300LLCT-ND◆	.39	3.13	21.49	MAZS0300LLTR-ND◆	3,000	101.00/M
2.95	3.1	3.2		120	MAZS0300HLCT-ND◆	.40	3.34	26.74	MAZS0300HLTR-ND◆	3,000	107.00/M
3.1	3.3	3.5		130	MAZS0330HLCT-ND◆	.40	3.34	26.74	MAZS0330HLTR-ND◆	3,000	107.00/M
3.55	3.7	3.8	5	130	MAZS0360HLCT-ND◆	.40	3.34	26.74	MAZS0360HLTR-ND◆	3,000	107.00/M
3.7	3.9	4.1		130	MAZS0390HLCT-ND◆	.40	3.34	26.74	MAZS0390HLTR-ND◆	3,000	107.00/M
4.0	4.3	4.6		130	MAZS0430MLCT-ND◆	.40	3.34	26.74	MAZS0430MLTR-ND◆	3,000	107.00/M
4.4	4.7	5.0		80	MAZS0470MLCT-ND◆	.40	3.34	26.74	MAZS0470MLTR-ND◆	3,000	107.00/M
4.8	5.1	5.4		60	MAZS0510MLCT-ND◆	.40	3.34	26.74	MAZS0510MLTR-ND◆	3,000	107.00/M
5.3	5.6	6.0	5	40	MAZS0560MLCT-ND◆	.40	3.34	26.74	MAZS0560MLTR-ND◆	3,000	107.00/M
5.8	6.2	6.6		30	MAZS0620MLCT-ND◆	.40	3.34	26.74	MAZS0620MLTR-ND◆	3,000	107.00/M
6.4	6.8	7.2		20	MAZS0680MLCT-ND◆	.40	3.34	26.74	MAZS0680MLTR-ND◆	3,000	107.00/M
7.0	7.5	7.9		20	MAZS0750MLCT-ND◆	.40	3.34	26.74	MAZS0750MLTR-ND◆	3,000	107.00/M
7.7	8.2	8.7		20	MAZS0820MLCT-ND◆	.40	3.34	26.74	MAZS0820MLTR-ND◆	3,000	107.00/M
8.87	9.1	9.33	5	20	MAZS0910MLCT-ND◆	.40	3.34	26.74	MAZS0910MLTR-ND◆	3,000	107.00/M
9.4	10	10.6		30	MAZS1000MLCT-ND◆	.40	3.34	26.74	MAZS1000MLTR-ND◆	3,000	107.00/M
10.73	11	11.28		30	MAZS1100MLCT-ND	.40	3.34	26.74	MAZS1100MLTR-ND	3,000	107.00/M
11.4	12	12.7		30	MAZS1200MLCT-ND◆	.40	3.34	26.74	MAZS1200MLTR-ND◆	3,000	107.00/M
12.73	13	13.4		35	MAZS1300MLCT-ND◆	.40	3.34	26.74	MAZS1300MLTR-ND◆	3,000	107.00/M
14.6	15	15.35	5	40	MAZS1500MLCT-ND◆	.40	3.34	26.74	MAZS1500MLTR-ND◆	3,000	107.00/M
15.7	16	16.5		50	MAZS1600MLCT-ND◆	.40	3.34	26.74	MAZS1600MLTR-ND◆	3,000	107.00/M
17.55	18	18.45		60	MAZS1800MLCT-ND◆	.40	3.34	26.74	MAZS1800MLTR-ND◆	3,000	107.00/M
19.5	20	20.5		80	MAZS2000MLCT-ND	.40	3.34	26.74	MAZS2000MLTR-ND	3,000	107.00/M
20.8	22	23.3		80	MAZS2200MLCT-ND◆	.40	3.34	26.74	MAZS2200MLTR-ND◆	3,000	107.00/M
23.5	24	24.7	5	100	MAZS2400MLCT-ND◆	.39	3.13	21.49	MAZS2400MLTR-ND◆	3,000	101.00/M
26.3	27	27.7	2	120	MAZS2700MLCT-ND	.40	3.34	26.74	MAZS2700MLTR-ND	3,000	107.00/M
30.2	31	31.8	2	160	MAZS3000HLCT-ND◆	.39	3.13	21.49	MAZS3000HLTR-ND◆	3,000	101.00/M
32.2	33	33.8	2	200	MAZS3300MLCT-ND◆	.40	3.34	26.74	MAZS3300MLTR-ND◆	3,000	107.00/M
34	36	38	2	250	MAZS3600MLCT-ND◆	.40	3.34	26.74	MAZS3600MLTR-ND◆	3,000	107.00/M
37.1	38	39	2	300	MAZS39000LCT-ND◆	.39	3.13	21.49	MAZS39000LTR-ND◆	3,000	101.00/M
SS-Mini Type Package 3-Pin — MAZT000H Series — 150mW											
5.8	6.2	6.6	5	50	MAZT062H0LCT-ND◆	.45	3.76	30.06	MAZT062H0LTR-ND◆	3,000	120.00/M
6.4	6.8	7.2		30	MAZT068H0LCT-ND◆	.42	3.37	25.25	MAZT068H0LTR-ND◆	3,000	112.00/M
7.7	8.2	8.7		30	MAZT082H0LCT-ND	.42	3.37	25.25	MAZT082H0LTR-ND	3,000	112.00/M
SS-Mini Type Package 5-Pin — 150mW — RoHS Compliant											
5.8	6.2	6.6	5	50	MAZM062H0LCT-ND	.69	5.16	38.73	MAZM062H0LTR-ND	3,000	224.00/M
6.4	6.8	7.2		30	MAZM068H0LCT-ND	.69	5.16	38.73	MAZM068H0LTR-ND	3,000	224.00/M
11.4	12	12.7		30	MAZM120H0LCT-ND	.69	5.16	38.73	MAZM120H0LTR-ND	3,000	224.00/M
SSS-Mini Type Package 2-Pin — 120mW — RoHS Compliant											
4.8	5.1	5.4	5	60	MAZD05100LCT-ND	.42	3.50	27.98	MAZD05100LTR-ND	10,000	98.00/M
5.3	5.6	6.0		40	MAZD05600LCT-ND	.42	3.50	27.98	MAZD05600LTR-ND	10,000	98.00/M
5.8	6.2	6.6		30	MAZD06200LCT-ND	.49	3.93	29.51	MAZD06200LTR-ND	10,000	123.00/M
6.4	6.8	7.2		20	MAZD06800LCT-ND	.49	3.93	29.51	MAZD06800LTR-ND	10,000	123.00/M
8.5	9.1	9.6		20	MAZD09100LCT-ND	.42	3.50	27.98	MAZD09100LTR-ND	10,000	98.00/M
9.4	10	10.6	5	30	MAZD10000LCT-ND	.49	3.93	29.51	MAZD10000LTR-ND	10,000	123.00/M
11.4	12	12.7	5	30	MAZD12000LCT-ND	.49	3.93	29.51	MAZD12000LTR-ND	10,000	123.00/M
15.3	16	17.1	5	50	MAZD16000LCT-ND	.42	3.50	27.98	MAZD16000LTR-ND	10,000	98.00/M
18.8	20	21.2	5	80	MAZD20000LCT-ND	.42	3.50	27.98	MAZD20000LTR-ND	10,000	98.00/M
28	30	32	2	160	MAZD30000LCT-ND	.42	3.50	27.98	MAZD30000LTR-ND	10,000	98.00/M
SSS-Mini Type Package 3-Pin — 150mW — RoHS Compliant											
6.4	6.8	7.2	5	30	MAZW068H0LCT-ND	.59	4.43	33.20	MAZW068H0LTR-ND	10,000	184.00/M
7.7	8.2	8.7			MAZW082H0LCT-ND	.54	4.28	32.13	MAZW082H0LTR-ND	10,000	134.00/M
1008 Leadless Package 4-Pin — 100mW											
7.7	8.2	8.7	5	20	MAZR08200ACT-ND	.43	3.43	25.74	MAZR08200ATR-ND	10,000	107.00/M
					MAZR082H0ACT-ND	.69	5.15	38.61	MAZR082H0ATR-ND	10,000	214.00/M

◆ *RoHS Compliant* † Tape and Box

S-Mini Type Package (2-pin)

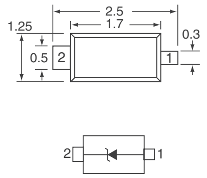

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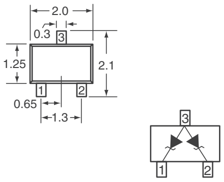

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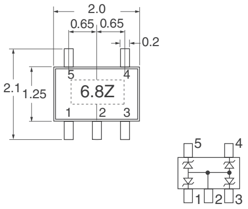

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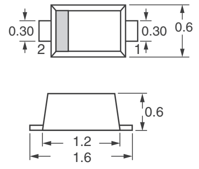

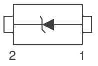

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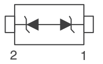

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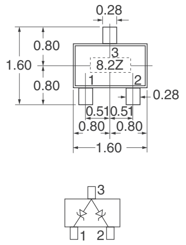

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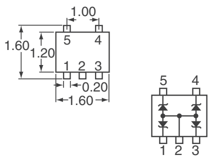

(Continued)

Panasonic Zener Diodes Silicon Planar Type *(Cont.)*

Zener Voltage VZ Min.	Nom.	Max.	IZ (mA)	RZ (max.) (Ohms)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
DO-41 Package 1W — RoHS Compliant											
4.8	5.1	5.4	40	10	MAZ20510AGCT-ND	.55	4.15	31.12	MAZ20510AGTR-ND	7,000	176.00/M
5.2	5.6	6.0		8	MAZ20560A0GCT-ND	.55	4.15	31.12	MAZ20560A0GTR-ND	7,000	176.00/M
5.8	6.2	6.6		6	MAZ20620AGCT-ND	.55	4.15	31.12	MAZ20620AGTR-ND	7,000	176.00/M
6.4	6.8	7.2		6	MAZ206800GCT-ND	.55	4.15	31.12	MAZ206800GTR-ND	7,000	176.00/M
7.0	7.45	7.9		5	MAZ20750AGCT-ND	.55	4.15	31.12	MAZ20750AGTR-ND	7,000	176.00/M
7.7	8.2	8.7	40	5	MAZ20820AGCT-ND	.55	4.15	31.12	MAZ20820AGTR-ND	7,000	176.00/M
8.5	9.05	9.6	40	6	MAZ20910AGCT-ND	.55	4.15	31.12	MAZ20910AGTR-ND	7,000	176.00/M
9.4	10	10.6	40	6	MAZ210000GCT-ND	.55	4.15	31.12	MAZ210000GTR-ND	7,000	176.00/M
10.4	11	11.6	20	8	MAZ21100BGCT-ND	.55	4.15	31.12	MAZ21100BGTR-ND	7,000	176.00/M
11.4	12.05	12.7	20	8	MAZ21200AGCT-ND	.55	4.15	31.12	MAZ21200AGTR-ND	7,000	176.00/M
12.4	13.25	14.1	20	10	MAZ21300AGCT-ND	.55	4.15	31.12	MAZ21300AGTR-ND	7,000	176.00/M
13.8	14.7	15.6		12	MAZ215000GCT-ND	.55	4.15	31.12	MAZ215000GTR-ND	7,000	176.00/M
15.3	16.2	17.1		12	MAZ21600AGCT-ND	.55	4.15	31.12	MAZ21600AGTR-ND	7,000	176.00/M
16.8	17.95	19.1		15	MAZ21800AGCT-ND	.55	4.15	31.12	MAZ21800AGTR-ND	7,000	176.00/M
18.8	20	21.2		15	MAZ220000GCT-ND	.55	4.15	31.12	MAZ220000GTR-ND	7,000	176.00/M
20.8	22.05	23.3	10	20	MAZ222000GCT-ND	.55	4.15	31.12	MAZ222000GTR-ND	7,000	176.00/M
22.8	24.2	25.6		20	MAZ224000GCT-ND	.55	4.15	31.12	MAZ224000GTR-ND	7,000	176.00/M
25.1	27	28.9		25	MAZ22700AGCT-ND	.55	4.15	31.12	MAZ22700AGTR-ND	7,000	176.00/M
28	30	32		25	MAZ23000AGCT-ND	.55	4.15	31.12	MAZ23000AGTR-ND	7,000	176.00/M
31	33	35		30	MAZ23300AGCT-ND	.55	4.15	31.12	MAZ23300AGTR-ND	7,000	176.00/M
34	36	38	10	30	MAZ23600AGCT-ND	.55	4.15	31.12	MAZ23600AGTR-ND	7,000	176.00/M
37	39	41		50	MAZ239000GCT-ND	.55	4.15	31.12	MAZ239000GTR-ND	7,000	176.00/M
40	43	46		50	MAZ243000GCT-ND	.55	4.15	31.12	MAZ243000GTR-ND	7,000	176.00/M
44	47	50		50	MAZ247000GCT-ND	.55	4.15	31.12	MAZ247000GTR-ND	7,000	176.00/M
48	51	54		50	MAZ251000GCT-ND	.55	4.15	31.12	MAZ251000GTR-ND	7,000	176.00/M
52	56	60		50	MAZ256000GCT-ND	.55	4.15	31.12	MAZ256000GTR-ND	7,000	176.00/M
DO-34 Package 370mW — RoHS Compliant											
1.88	2.06	2.24	5	2000	MAZ40200LFCT-ND	.33	2.49	17.26	MAZ40200LFTB-ND†	2,000	73.04/M
2.08	2.265	2.45		2000	MAZ40220LFCT-ND	.33	2.49	17.26	MAZ40220LFTB-ND†	2,000	73.04/M
2.28	2.49	2.7		2000	MAZ40240LFCT-ND	.33	2.49	17.26	MAZ40240LFTB-ND†	2,000	73.04/M
2.5	2.7	2.9		1000	MAZ402700FCT-ND	.33	2.49	17.26	MAZ402700FTB-ND†	2,000	73.04/M
2.8	3.0	3.2		1000	MAZ40300MFCT-ND	.33	2.49	17.26	MAZ40300MFTB-ND†	2,000	73.04/M
3.1	3.3	3.5	5	1000	MAZ40330MFCT-ND	.33	2.49	17.26	MAZ40330MFTB-ND†	2,000	73.04/M
3.4	3.6	3.8		1000	MAZ40360MFCT-ND	.33	2.49	17.26	MAZ40360MFTB-ND†	2,000	73.04/M
3.7	3.9	4.1		1000	MAZ40390MFCT-ND	.33	2.49	17.26	MAZ40390MFTB-ND†	2,000	73.04/M
4	4.3	4.6		1000	MAZ40430MFCT-ND	.33	2.49	17.26	MAZ40430MFTB-ND†	2,000	73.04/M
4.4	4.7	5.0		900	MAZ40470MFCT-ND	.33	2.49	17.26	MAZ40470MFTB-ND†	2,000	73.04/M
4.8	5.1	5.4	5	800	MAZ40510MFCT-ND	.33	2.49	17.26	MAZ40510MFTB-ND†	2,000	73.04/M
5.3	5.65	6.0		500	MAZ40560MFCT-ND	.33	2.49	17.26	MAZ40560MFTB-ND†	2,000	73.04/M
5.8	6.2	6.6		300	MAZ40620MFCT-ND	.33	2.49	17.26	MAZ40620MFTB-ND†	2,000	73.04/M
6.4	6.8	7.2		140	MAZ406800FCT-ND	.33	2.49	17.26	MAZ406800FTB-ND†	2,000	73.04/M
7.0	7.45	7.9		120	MAZ40750MFCT-ND	.33	2.49	17.26	MAZ40750MFTB-ND†	2,000	73.04/M
7.7	8.2	8.7	5	120	MAZ408200FCT-ND	.33	2.49	17.26	MAZ408200FTB-ND†	2,000	73.04/M
8.5	9.05	9.6		130	MAZ409100FCT-ND	.33	2.49	17.26	MAZ409100FTB-ND†	2,000	73.04/M
9.4	10	10.6		130	MAZ410000FCT-ND	.33	2.49	17.26	MAZ410000FTB-ND†	2,000	73.04/M
10.4	11	11.6		170	MAZ41100MFCT-ND	.33	2.49	17.26	MAZ41100MFTB-ND†	2,000	73.04/M
11.4	12.05	12.7		170	MAZ41200MFCT-ND	.33	2.49	17.26	MAZ41200MFTB-ND†	2,000	73.04/M
12.4	13.25	14.1	5	170	MAZ41300MFCT-ND	.33	2.49	17.26	MAZ41300MFTB-ND†	2,000	73.04/M
13.65	14	14.35		170	MAZ41400MFCT-ND	.33	2.49	17.26	MAZ41400MFTB-ND†	2,000	73.04/M
13.9	14.75	15.6		170	MAZ41500MFCT-ND	.33	2.49	17.26	MAZ41500MFTB-ND†	2,000	73.04/M
15.3	16.2	17.1		170	MAZ41600MFCT-ND	.33	2.49	17.26	MAZ41600MFTB-ND†	2,000	73.04/M
16.9	18	19.1		170	MAZ41800MFCT-ND	.33	2.49	17.26	MAZ41800MFTB-ND†	2,000	73.04/M
18.8	20	21.2	5	180	MAZ42000MFCT-ND	.33	2.49	17.26	MAZ42000MFTB-ND†	2,000	73.04/M
20.8	22.05	23.3	5	180	MAZ42200MFCT-ND	.33	2.49	17.26	MAZ42200MFTB-ND†	2,000	73.04/M
22.8	24.2	25.6	5	180	MAZ42400MFCT-ND	.33	2.49	17.26	MAZ42400MFTB-ND†	2,000	73.04/M
25.1	27	28.9	2	200	MAZ42700MFCT-ND	.33	2.49	17.26	MAZ42700MFTB-ND†	2,000	73.04/M
28	30	32	2	200	MAZ43000MFCT-ND	.33	2.49	17.26	MAZ43000MFTB-ND†	2,000	73.04/M
31	33	35	2	200	MAZ43300MFCT-ND	.33	2.49	17.26	MAZ43300MFTB-ND†	2,000	73.04/M
34	36	38		200	MAZ43600MFCT-ND	.33	2.49	17.26	MAZ43600MFTB-ND†	2,000	73.04/M
37	39	41		250	MAZ43900MFCT-ND	.33	2.49	17.26	MAZ43900MFTB-ND†	2,000	73.04/M

◆ ***RoHS Compliant*** † Tape and Box

Zener Voltage VZ Min.	Nom.	Max.	IR (µA)	Ct (pF)	ESD (kV)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
SS-Mini Type Package 2-Pin — ESD Protection — RoHS Compliant												
5.8	6.2	6.6	1.0	55	30	MALS06200LCT-ND	.51	4.04	30.34	MALS06200LTR-ND	3,000	134.00/M
6.4	6.8	7.2	0.5	50	30	MALS06800LCT-ND	.51	4.04	30.34	MALS06800LTR-ND	3,000	134.00/M
6.5	7.0	7.5	0.05	15	15	MALS068X0LCT-ND	.66	4.96	37.23	MALS068X0LTR-ND	3,000	215.00/M
6.0	7.5	—	2.0	1.5	12	MAYS0750ZLCT-ND	.67	5.06	37.92	MAYS0750ZLTR-ND	3,000	219.00/M
SS-Mini Type Package 3-Pin — ESD Protection — RoHS Compliant												
5.8	6.2	6.6	1.0	55	30	MALT062H0LCT-ND	.63	4.69	35.16	MALT062H0LTR-ND	3,000	203.00/M
SS-Mini Type Package 5-Pin — ESD Protection — RoHS Compliant												
5.8	6.2	6.6	1.0	55	30	MALM062H0LCT-ND	.51	3.86	28.96	MALM062H0LTR-ND	3,000	167.00/M

SSS-Mini Type Package (2-pin)

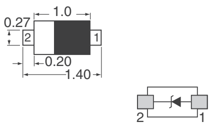

SSS-Mini Type Package (3-pin)

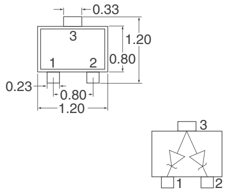

1008 Leadless Package (4-pin)

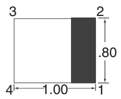

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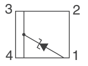

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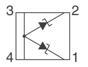

DO-41 Package

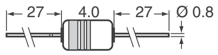

DO-34 Package

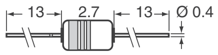

Varistor Diodes

RoHS COMPLIANT

S-Mini Type (2-pin)

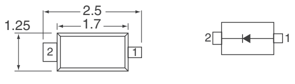

Mini Type (3-pin)

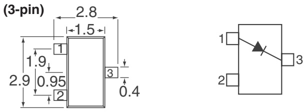

DO-34

Dim. in mm

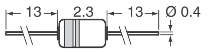

Package	VR (V)	IFM (mA)	VF (V)	VF (mA)	IR @ 6V (µA)	–ΔVF/ΔT Tj=25°C~125°C (mV/°C)	(mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
S-Mini (2)	6	150	0.56 ~ 0.61	1.5	1	2.0	1.5	MA2Z0300ALCT-ND	.55	4.41	33.10	MA2Z0300ALTR-ND	3,000	147.00/M
		150				2.0	3.0	MA3X0280BLCT-ND	.45	3.62	27.15	MA3X0280BLTR-ND	3,000	120.00/M
Mini (3)	6	70	1.76 ~ 1.92	3.0	1	6.5	3.0	MA3X028TALCT-ND	.45	3.62	27.15	MA3X028TALTR-ND	3,000	120.00/M
		100	1.18 ~ 1.28			4.6	3.0	MA3X028WALCT-ND	.45	3.62	27.15	MA3X028WALTR-ND	3,000	120.00/M
DO-34	6	50	0.59 ~ 0.64	1.5	10	2.0	1.5	MA2C0290BFCT-ND	.58	4.36	30.21	MA2C0290BFTB-ND†	2,000	104.58/M
		50	1.60	10	1	8.8	3.0	MA2C029QAFCT-ND	1.33	9.96	69.06	MA2C029QAFTB-ND†	2,000	176.63/M
		70	1.15	10	1	6.5	3.0	MA2C029TAFCT-ND	1.25	9.34	64.74	MA2C029TAFTB-ND†	2,000	165.59/M
		100	0.77	10	1	4.6	3.0	MA2C029WAFCT-ND	.91	6.85	47.48	MA2C029WAFTB-ND†	2,000	127.82/M

† Tape and Box

Transistors

Fig.	Package	V_{CEO} (V)	V_{CBO} (V)	I_C (mA)	h_{FE} Min.	h_{FE} Max.	F_T Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		NXP Part No.
									1	25	100	Qty.	Pricing	
NPN														
1A	TO-92	40	60	100	100	300	180	568-2453-1-ND	.27	5.06	14.04	—	—	MPS3904 AMO
		40	60	600	100	300	250	568-1368-1-ND	.22	4.05	11.70	—	—	2N4401 T/R
		40	75	600	100	300	300	568-1751-1-ND	.14	2.70	7.80	2,000	32.40/M	PN2222A T/R
		40	75	600	100	300	300	568-3992-ND†	.14	2.70	7.80	—	—	PN2222A
		80	80	500	100	—	100	568-1173-ND†	.17	3.15	9.10	—	—	MPSA06
1B	TO-92	45	50	500	160	400	80	568-1627-1-ND§	.14	2.70	7.80	2,000	32.40/M	BC337-16 AMO
								568-1628-1-ND§	.14	2.70	7.80	2,000	32.40/M	BC337-25 AMO
2	SOT-23	15	40	200	40	120	500	568-1739-1-ND	.13	2.48	7.15	3,000	25.85/M	PMBT2369 T/R
		20	30	1000	300	—	100	568-4342-1-ND▲ ***NEW!***	.45	9.00	27.00	3,000	121.50/M	PBSS4120T T/R
		20	20	2000	200	—	100	568-4157-1-ND▲	.48	9.00	27.00	3,000	156.00/M	PBSS4320T T/R
		30	—	1000	300	450	100	568-3230-1-ND▲	.45	9.00	27.00	3,000	121.50/M	PBSS4130T T/R
		30	40	2000	150	250	100	568-4155-1-ND	.45	9.00	27.00	3,000	121.50/M	PBSS4230T T/R
		40	60	600	100	300	250	568-1743-1-ND	.08	1.58	4.55	3,000	16.45/M	PMBT4401 T/R
		40	40	1000	200	—	150	568-4154-1-ND▲	.45	9.00	27.00	3,000	121.50/M	PBSS4140T T/R
		40	40	2000	150	250	100	568-4156-1-ND	.48	9.00	27.00	3,000	156.00/M	PBSS4240T T/R
		40	60	200	100	300	300	568-1741-1-ND	.08	1.58	4.55	3,000	16.45/M	PMBT3904 T/R
		40	75	600	100	300	300	568-1738-1-ND	.08	1.58	4.55	3,000	16.45/M	PMBT2222A T/R
		45	75	500	160	400	80	568-1630-1-ND	.12	2.25	6.50	3,000	23.50/M	BC817-25 T/R
		45	50	500	160	400	80	568-1631-1-ND	.12	2.25	6.50	3,000	23.50/M	BC817-40 T/R
		45	50	100	200	450	100	568-1633-1-ND	.09	1.69	4.88	3,000	17.63/M	BC847B T/R
		45	50	100	420	800	100	568-1636-1-ND	.09	1.69	4.88	3,000	17.63/M	BC847C T/R
		60	80	1000	200	—	150	568-4343-1-ND▲ ***NEW!***	.48	9.55	28.65	3,000	128.93/M	PBSS4160T T/R
		65	80	100	200	450	100	568-1632-1-ND	.09	1.69	4.88	3,000	17.63/M	BC846B T/R
		80	80	500	100	—	100	568-1745-1-ND	.12	2.25	6.50	3,000	23.50/M	PMBTA06 T/R
		100	120	1000	150	500	100	568-4344-1-ND▲ ***NEW!***	.36	6.75	20.25	3,000	117.00/M	PBSS8110T T/R
		300	300	100	40	—	50	568-1746-1-ND	.17	3.15	9.10	3,000	32.90/M	PMBTA42 T/R
3A	SOT-363	45	50	100	200	450	100	568-1635-1-ND	.22	4.05	11.70	3,000	42.30/M	BC847BS T/R
4A	SOT-223	20	20	5800	200	350	140	568-4179-1-ND	.75	15.63	50.00	4,000	325.00/M	PBSS302NZ /T3
		40	40	5000	100	300	70	568-4162-1-ND	.70	13.13	39.38	1,000	232.75	PBSS4540Z T/R
		40	60	600	100	300	150	568-2456-1-ND	.40	8.00	24.00	1,000	112.00	PZT4401 T/R
		50	60	3000	100	—	100	568-4160-1-ND	.45	9.00	27.00	4,000	121.50/M	PBSS4350Z /T3
		80	80	5100	50	80	110	568-4181-1-ND	.78	16.25	52.00	4,000	338.00/M	PBSS305NZ /T3
		80	100	1000	40	250	130	568-1639-1-ND	.40	7.81	22.00	1,000	95.00	BCP56 T/R
		50	60	3000	100	—	100	568-4171-1-ND	.60	11.25	33.75	4,000	195.00/M	PBSS5350Z /T3
5	SC-75	15	15	500	90	—	250	568-4148-1-ND	.40	8.01	21.96	3,000	103.70/M	PBSS2515E T/R
6	SOT-89	20	20	5300	200	380	140	568-4173-1-ND	.90	16.88	50.63	1,000	299.25	PBSS302NX T/R
		40	60	100	100	300	300	568-1181-1-ND	.50	10.00	30.00	1,000	140.00	PXT2222A T/R
		50	50	3000	100	—	100	568-4159-1-ND	.45	9.00	27.00	1,000	189.00	PBSS4350X T/R
		80	80	4000	80	140	120	568-4161-1-ND	.84	15.75	47.25	4,000	273.00/M	PBSS4480X /T3
		80	80	4600	70	110	110	568-4177-1-ND	.78	16.25	52.00	1,000	345.80	PBSS305NX T/R
		80	100	1000	100	250	130	568-1642-1-ND	.36	7.22	19.80	1,000	99.00	BCX56-16 T/R
7A	SC-74	20	20	4000	100	230	100	568-4149-1-ND	.90	16.88	50.63	3,000	292.50/M	PBSS301ND T/R
		40	60	4000	50	—	150	568-4151-1-ND	.90	16.88	50.63	3,000	292.50/M	PBSS302ND T/R
		50	60	3000	100	—	100	568-4158-1-ND	.45	9.00	27.00	3,000	121.50/M	PBSS4350D T/R
		80	80	3000	25	40	140	568-4175-1-ND	.75	15.63	50.00	3,000	325.00/M	PBSS304ND T/R
PNP														
1A	TO-92	40	40	100	100	300	—	568-2454-1-ND	.27	5.06	14.04	—	—	MPS3906 AMO
		60	60	600	100	300	200	568-1752-1-ND	.14	2.70	7.80	2,000	32.40/M	PN2907A T/R
2	SOT-23	20	20	1000	250	—	100	568-4345-1-ND▲ ***NEW!***	.45	9.00	27.00	3,000	121.50/M	PBSS5120T T/R
		20	20	2000	100	—	100	568-4166-1-ND▲	.48	9.00	27.00	3,000	156.00/M	PBSS5320T T/R
		30	30	1000	260	—	100	568-4346-1-ND▲ ***NEW!***	.45	9.00	27.00	3,000	121.50/M	PBSS5130T T/R
		40	40	1000	160	—	150	568-4163-1-ND▲	.48	9.55	28.65	3,000	128.93/M	PBSS5140T T/R
		40	40	2000	100	180	100	568-4165-1-ND	.48	9.00	27.00	3,000	156.00/M	PBSS5240T T/R
		40	40	200	100	300	250	568-1742-1-ND	.08	1.58	4.55	3,000	16.45/M	PMBT3906 T/R
		40	40	600	100	300	200	568-1744-1-ND	.08	1.58	4.55	3,000	16.45/M	PMBT4403 T/R
		40	40	100	220	475	100	568-1638-1-ND	.09	1.69	4.88	3,000	17.63/M	BC857B T/R
		45	50	500	100	600	80	568-1640-1-ND	.18	3.38	9.75	3,000	35.25/M	BCX17 T/R
		45	50	500	250	600	80	568-1629-1-ND	.12	2.25	6.50	3,000	23.50/M	BC807-40 T/R
		50	50	2000	80	—	100	568-4169-1-ND	.45	9.00	27.00	3,000	121.50/M	PBSS5350T T/R
		60	60	600	100	300	200	568-1740-1-ND	.08	1.58	4.55	3,000	16.45/M	PMBT2907A T/R
		60	80	1000	150	—	150	568-4347-1-ND▲ ***NEW!***	.50	10.00	30.00	3,000	135.00/M	PBSS5160T T/R
		65	80	100	220	475	100	568-1637-1-ND	.09	1.69	4.88	3,000	17.63/M	BC856B T/R
		80	80	500	100	—	50	568-1747-1-ND	.14	2.70	7.80	3,000	28.20/M	PMBTA56 T/R
		100	120	1000	150	450	100	568-4348-1-ND▲ ***NEW!***	.45	9.00	27.00	3,000	121.50/M	PBSS9110T T/R
		300	300	100	40	—	50	568-1748-1-ND	.17	3.15	9.10	3,000	32.90/M	PMBTA92 T/R
4A	SOT-223	20	20	5500	100	—	130	568-4180-1-ND	.75	15.63	50.00	4,000	325.00/M	PBSS302PZ /T3
		40	40	600	100	300	200	568-2457-1-ND	.40	8.00	24.00	1,000	112.00	PZT4403 T/R
		40	40	5000	50	—	60	568-4172-1-ND	.72	13.50	40.50	1,000	239.40	PBSS5540Z T/R
		80	80	4500	30	—	100	568-4182-1-ND	.78	16.25	52.00	4,000	338.00/M	PBSS305PZ /T3
6	SOT-89	20	20	3000	100	—	100	568-4167-1-ND	.54	10.13	30.38	4,000	175.50/M	PBSS5320X /T3
		20	20	5100	100	—	130	568-4174-1-ND	.90	16.88	50.63	1,000	299.25	PBSS302PX T/R
		50	50	3000	80	—	100	568-4170-1-ND	.60	11.25	33.75	1,000	199.50	PBSS5350X T/R
		50	60	3000	100	—	100	568-4168-1-ND	.45	9.00	27.00	3,000	121.50/M	PBSS5350D T/R
		80	80	4000	45	—	100	568-4178-1-ND	.78	16.25	52.00	1,000	345.80	PBSS305PX T/R
		80	100	1000	100	250	50	568-1641-1-ND	.36	7.22	19.80	1,000	99.00	BCX53-16 T/R
7A	SC-74	20	20	4000	80	130	80	568-4150-1-ND	.90	16.88	50.63	3,000	292.50/M	PBSS301PD T/R
		40	40	4000	30	—	110	568-4152-1-ND	.90	16.88	50.63	3,000	292.50/M	PBSS302PD T/R
		80	80	3000	20	—	110	568-4176-1-ND	.75	15.63	50.00	3,000	325.00/M	PBSS304PD T/R
8	SOT-323	40	40	1000	160	—	150	568-4164-1-ND	.48	9.55	28.65	3,000	128.93/M	PBSS5140U T/R
NPN/PNP														
3A	SOT-363	45	50	100	200	450	100	568-1634-1-ND	.22	4.05	11.70	3,000	42.30/M	BC847BPN T/R
		50	50	100	80	—	—	568-4282-1-ND	.24	4.50	13.00	3,000	47.00/M	PUMD16 T/R
7A	SC-74	40	40	1000	300	900	150	568-4153-1-ND▲	.76	14.25	42.75	3,000	247.00/M	PBSS4140DPN T/R
7B	SC-74	40	40	2000	300	—	150	568-4349-1-ND▲ ***NEW!***	.84	15.75	47.25	3,000	273.00/M	PBSS4240DPN T/R
		60	80	1000	200	—	150	568-4352-1-ND▲ ***NEW!***	.62	11.55	34.65	3,000	200.20/M	PBSS4160DPN T/R
NPN/NPN														
7B	SC-74	60	80	1000	200	—	150	568-4350-1-ND▲ ***NEW!***	.62	11.55	34.65	3,000	200.20/M	PBSS4160DS T/R
PNP/PNP														
7B	SC-74	60	80	1000	150	—	150	568-4351-1-ND▲ ***NEW!***	.62	11.55	34.65	3,000	200.20/M	PBSS5160DS T/R

† Bulk § For Tape and Box part number, change 1-ND to 3-ND. ‡ For Tape and Reel part number, change 1-ND to 2-ND.

▲ **NXPBISS1-KIT-ND** (3806620) ***NEW!*** 25 each of 17 values **$39.99**

Wideband Transistors

Fig.	Package	Transition Frequency (GHz)	V_{CEO} (V)	I_C (mA)	P_{tot} (W)	h_{FE} (Typical)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		NXP Part No.
								1	25	100	Qty.	Pricing	
NPN													
2	SOT-23	1	15	25	0.3	90	568-1652-1-ND	.35	6.89	19.40	3,000	79.38/M	BFS17 T/R
		2.8	15	25	0.3	90	568-1653-1-ND	.39	7.66	21.56	3,000	88.20/M	BFS17A T/R

‡ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Fig. 1 — TO-92

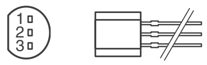

A	B
1. Collector	1. Emitter
2. Base	2. Base
3. Emitter	3. Collector

Fig. 2 — SOT-23

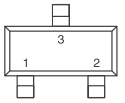

1. Base
2. Emitter
3. Collector

Fig. 3 — SOT-363

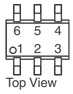

A	B
1,4 Emitter	1,4 Base
2,5 Base	2,5 Emitter
3,6 Collector	3,6 Collector

Fig. 4 — SOT-223

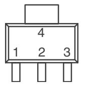

A	B
1. Base	1. Emitter
2. Collector	2. Base
3. Emitter	3. Emitter
4. Collector	4. Collector

Fig. 5 — SC-75

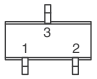

1. Base
2. Emitter
3. Collector

Fig. 6 — SOT-89

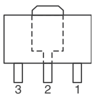

1. Emitter
2. Collector
3. Base

Fig. 7 — SC-74

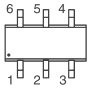

A	B
1. Collector	1. Emitter
2. Collector	2. Base
3. Base	3. Collector
4. Emitter	4. Emitter
5. Collector	5. Base
6. Collector	6. Collector

Fig. 8 — SOT-323

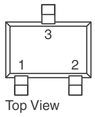

1. Base
2. Emitter
3. Collector

Fig. 9 — SOT-343R

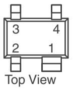

A	B
1. Emitter	1. Collector
2. Base	2. Emitter
3. Emitter	3. Base
4. Collector	4. Emitter

Wideband Transistors *(Cont.)*

Fig.	Package	Transition Frequency (GHz)	V_{CEO} (V)	I_C (mA)	P_{tot} (W)	h_{FE} (Typical)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		NXP Part No.
								1	25	100	Qty.	Pricing	
2	SOT-23	2.8	5	6.5	0.032	80	568-1992-1-ND	.66	12.29	36.86	3,000	212.94/M	BFT25A T/R
		5	15	25	0.3	90	568-1650-1-ND	.49	9.84	27.00	3,000	127.50/M	BFR92A T/R
		5	15	100	0.5	80	568-1987-1-ND	.45	9.00	27.00	3,000	121.50/M	BFR106 T/R
		6	12	35	0.3	90	568-1651-1-ND	.49	9.84	27.00	3,000	127.50/M	BFR93A T/R
		6	10	50	0.3	100	568-1647-1-ND	.48	9.65	26.46	3,000	124.95/M	BFQ67 T/R
		8	10	50	0.36	100	568-1174-1-ND	.41	8.21	24.63	3,000	110.84/M	PBR941 T/R
		8	10	100	0.365	100	568-1175-1-ND	.41	8.21	24.63	3,000	110.84/M	PBR951 T/R
		8	15	18	0.15	120	568-1988-1-ND	.58	11.55	34.65	3,000	155.93/M	BFR505 T/R
		9	15	70	0.3	120	568-1648-1-ND	.59	10.97	32.92	3,000	190.19/M	BFR520 T/R
		9	15	120	0.5	120	568-1649-1-ND	.82	15.32	45.95	3,000	265.46/M	BFR540 T/R
3B	SOT-363	9	8	70	1	120	568-1646-1-ND	.89	16.66	49.97	3,000	288.73/M	BFM520 T/R
4B	SOT-223	5.5	15	100	1	80	568-1986-1-ND	1.07	22.31	71.40	3,000	464.10/M	BFG97 T/R
		7	15	150	1	130	568-1643-1-ND	.91	19.03	60.90	1,000	404.99	BFG135 T/R
		7	15	200	2	90	568-1985-1-ND	.95	19.69	63.00	1,000	418.95	BFG591 T/R
		9	15	120	0.65	120	568-1984-1-ND	.88	16.54	49.61	1,000	286.65	BFG541 T/R
9A	SOT-343R	17	4.5	3.6	0.016	80	568-1979-1-ND	.79	14.81	44.42	3,000	256.62/M	BFG403W T/R
		18	15	500	0.60	100	568-1974-1-ND	.88	18.29	58.52	3,000	380.38/M	BFG21W T/R
		21	4.5	250	0.36	60	568-1982-1-ND	.87	16.32	48.96	3,000	282.88/M	BFG480W T/R
		22	4.5	12	0.054	80	568-1980-1-ND	.70	13.19	39.56	3,000	228.54/M	BFG410W T/R
		25	4.5	30	0.135	80	568-1644-1-ND	.67	12.53	37.58	3,000	217.10/M	BFG425W T/R
8	SOT-323	8.5	10	100	0.28	100	568-1177-1-ND	.42	8.43	23.11	3,000	109.14/M	PRF957 T/R
		9	15	18	0.15	120	568-1991-1-ND	.59	11.06	33.17	3,000	191.62/M	BFS505 T/R
		9	15	70	0.3	120	568-1654-1-ND	.69	12.87	38.61	3,000	223.08/M	BFS520 T/R
9B	SOT-343R	14	6	10	0.06	100	568-1976-1-ND	.71	13.34	40.03	3,000	231.27/M	BFG310W/XR T/R
				35	0.21	100	568-1978-1-ND	.71	13.34	40.03	3,000	231.27/M	BFG325W/XR T/R
10	SOT-343N	9	15	70	0.5	120	568-1645-1-ND	.75	14.06	42.17	3,000	243.62/M	BFG520W/X T/R
		1.6	15	50	0.3	90	568-1990-1-ND	.42	8.22	23.14	3,000	94.68/M	BFS17W T/R
		5	15	25	0.3	90	568-1989-1-ND	.49	9.84	27.00	3,000	127.50/M	BFR92AW T/R
11	SOT-143R	14	6	10	0.60	100	568-1975-1-ND	.71	13.34	40.03	3,000	231.27/M	BFG310/XR T/R
			6	35	0.21	100	568-1977-1-ND	.71	13.34	40.03	3,000	231.27/M	BFG325/XR T/R
12	SOT-343F	25	4.5	30	0.135	80	568-1981-1-ND	.79	14.84	44.53	3,000	257.27/M	BFG424F T/R
13	SOT-143B	9	15	120	0.4	120	568-1983-1-ND	.88	16.54	49.61	3,000	286.65/M	BFG540/X T/R
14	SOT-416	9	10	50	0.15	150	568-2085-1-ND	.49	9.86	27.04	3,000	127.67/M	PRF949 T/R
							PNP						
2	SOT-23	5	12	35	0.3	50	568-1993-1-ND	.59	11.03	33.08	3,000	191.10/M	BFT93 T/R
			15	25	0.3	50	568-1655-1-ND	.56	10.50	31.50	3,000	182.00/M	BFT92 T/R
8	SOT-323	5	15	35	0.3	50	568-1656-1-ND	.84	15.71	47.14	3,000	272.35/M	BFT92W T/R

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 10 — SOT-343N

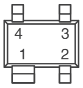

1. Collector
2. Emitter
3. Base
4. Emitter

Fig. 11 — SOT-143R

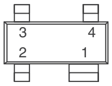

1. Collector
2. Emitter
3. Base
4. Emitter

Fig. 12 — SOT-343F

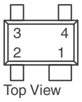

1. Emitter
2. Base
3. Emitter
4. Collector

Fig. 13 — SOT-143B

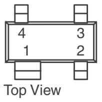

1. Collector
2. Emitter
3. Base
4. Emitter

Fig. 14 — SOT-416

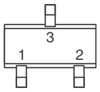

1. Base
2. Emitter
3. Collector

Transistor Arrays

Fig.	Package	V_{CEO} (V)	I_C (mA)	R1	R2	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		NXP Part No.
							1	25	100		Qty.	Pricing	
							NPN						
1	SOT-23	50	100	100K	–	568-2148-1-ND	.13	2.48	7.15	568-2148-2-ND	3,000	25.85/M	PDTC115TT T/R
2		50	100	2.2K	47K	568-2154-1-ND	.29	5.40	15.60	568-2154-2-ND	10,000	40.80/M	PDTC123JT /T3
2		50	100	4.7K	47K	568-2168-1-ND	.29	5.40	15.60	568-2168-2-ND	10,000	40.80/M	PDTC143ZT /T3
2	SOT-416	50	100	4.7K	47K	568-2165-1-ND	.30	5.63	15.60	568-2165-2-ND	3,000	60.00/M	PDTC143ZE T/R
1		50	100	47K	–	568-2169-1-ND	.30	5.63	15.60	568-2169-2-ND	3,000	60.00/M	PDTC144TE T/R
1		50	100	4.7K	–	568-2161-1-ND	.30	5.63	15.60	568-2161-2-ND	3,000	60.00/M	PDTC143TE T/R
1		50	100	22K	–	568-2156-1-ND	.30	5.63	15.60	568-2156-2-ND	3,000	60.00/M	PDTC124TE T/R
2		50	100	2.2K	2.2K	568-2150-1-ND	.29	5.40	15.60	568-2150-2-ND	3,000	56.40/M	PDTC123EE T/R
1		50	100	100K	–	568-2145-1-ND	.29	5.40	15.60	568-2145-2-ND	3,000	56.40/M	PDTC115TE T/R
2		50	100	47K	22K	568-2171-1-ND	.30	5.63	15.60	568-2171-2-ND	3,000	60.00/M	PDTC144WE T/R
1	SOT-346	50	100	100K	–	568-2146-1-ND	.13	2.48	7.15	568-2146-2-ND	3,000	25.85/M	PDTC115TK T/R
1	SOT-323	50	100	100K	–	568-2149-1-ND	.29	5.40	15.60	568-2149-2-ND	3,000	56.40/M	PDTC115TU T/R
							PNP						
3	SOT-23	50	20	100K	100K	568-2109-1-ND	.13	2.48	7.15	568-2109-2-ND	3,000	25.85/M	PDTA115ET T/R
4		50	100	22K	–	568-2122-1-ND	.13	2.48	7.15	568-2122-2-ND	3,000	25.85/M	PDTA124TT T/R
4		50	100	47K	–	568-2136-1-ND	.13	2.48	7.15	568-2136-2-ND	3,000	25.85/M	PDTA144TT T/R
4		50	100	100K	–	568-2114-1-ND	.13	2.48	7.15	568-2114-2-ND	3,000	25.85/M	PDTA115TT T/R
3	SOT-416	50	100	10K	47K	568-2104-1-ND	.30	5.63	15.60	568-2104-2-ND	3,000	60.00/M	PDTA114YE T/R
3		50	20	100K	100K	568-2106-1-ND	.29	5.40	15.60	568-2106-2-ND	3,000	56.40/M	PDTA115EE T/R
4		50	100	22K	–	568-2119-1-ND	.29	5.40	15.60	568-2119-2-ND	3,000	56.40/M	PDTA124TE T/R
3		50	100	2.2K	2.2K	568-2116-1-ND	.29	5.40	15.60	568-2116-2-ND	3,000	56.40/M	PDTA123EE T/R
4		50	100	4.7K	–	568-2127-1-ND	.30	5.63	15.60	568-2127-2-ND	3,000	60.00/M	PDTA143TE T/R
3		50	100	4.7K	47K	568-2130-1-ND	.30	5.63	15.60	568-2130-2-ND	3,000	60.00/M	PDTA143ZE T/R
3		50	100	47K	22K	568-2138-1-ND	.29	5.40	15.60	568-2138-2-ND	3,000	56.40/M	PDTA144WE T/R
4		50	100	47K	–	568-2133-1-ND	.29	5.40	15.60	568-2133-2-ND	3,000	56.40/M	PDTA144TE T/R
4		50	100	100K	–	568-2111-1-ND	.29	5.40	15.60	568-2111-2-ND	3,000	56.40/M	PDTA115TE T/R
3	SOT-346	50	20	100K	100K	568-2107-1-ND	.13	2.48	7.15	—	—	—	PDTA115EK T/R
4		50	100	10K	–	568-2102-1-ND	.13	2.48	7.15	—	—	—	PDTA114TK T/R
4		50	100	22K	–	568-2120-1-ND	.13	2.48	7.15	—	—	—	PDTA124TK T/R
4		50	100	47K	–	568-2134-1-ND	.13	2.48	7.15	—	—	—	PDTA144TK T/R
4		50	100	100K	–	568-2112-1-ND	.13	2.48	7.15	—	—	—	PDTA115TK T/R
3	SOT-323	50	20	100K	100K	568-2110-1-ND	.29	5.40	15.60	568-2110-2-ND	3,000	56.40/M	PDTA115EU T/R
4		50	100	100K	–	568-2115-1-ND	.29	5.40	15.60	568-2115-2-ND	3,000	56.40/M	PDTA115TU T/R
4		50	100	47K	–	568-2137-1-ND	.29	5.40	15.60	568-2137-2-ND	3,000	56.40/M	PDTA144TU T/R
4		50	100	22K	–	568-2123-1-ND	.29	5.40	15.60	568-2123-2-ND	3,000	56.40/M	PDTA124TU T/R

Fig. 1

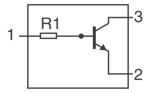

Fig. 2

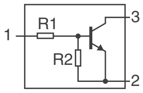

Fig. 3

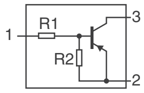

Fig. 4

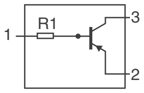

SOT-23

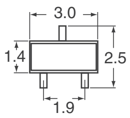

SOT-416

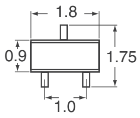

SOT-346

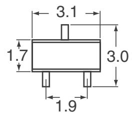

SOT-323

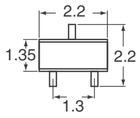

PNP Loadswitch

I_C (mA)	V_{CEO} (V)	V_{CESAT} (mV)	R1	R2	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		NXP Part No.
						1	25	100		Qty.	Pricing	
500	12	250	10K	10K	568-2173-1-ND	.48	9.00	27.00	568-2173-2-ND	4,000	156.00/M	PEMF21 T/R

SOT-666

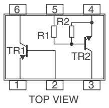

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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MOSFETs

Fig.	Package	V_{DSS}	I_D	$R_{DS}(on)$	Digi-Key	Cut Tape Pricing			Tape and Reel ‡		NXP
		(V)	(A)	(Ω)	Part No.	1	25	100	Qty.	Pricing	Part No.
N-Channel											
1A	SOT-23	50	0.173	15	568-1658-1-ND	.38	7.39	20.81	3,000	85.14/M	BSN20 T/R
		55	0.335	5	568-1657-1-ND	.29	5.51	15.29	3,000	58.80/M	BSH111 T/R
		60	0.30	5	568-1369-1-ND	.14	2.70	7.80	3,000	28.20/M	2N7002 T/R
		60	0.30	5	568-1768-1-ND	.49	9.70	29.10	10,000	123.68/M	BSH112 T/3
2	SOT-223	240	0.375	5	568-1769-1-ND	.64	12.00	36.00	1,000	212.80	BSP89 T/R
3A	SOT-143B	10	0.05	45	568-1659-1-ND	.76	14.18	42.53	3,000	245.70/M	BSS83 T/R
3B	SOT-143B	6	.03	—	568-1962-1-ND	.58	10.82	32.45	3,000	187.46/M	BF1212
		6	.03	—	568-1959-1-ND	.58	10.82	32.45	3,000	187.46/M	BF1211
		12	.03	—	568-1973-1-ND	.47	9.35	28.05	3,000	126.23/M	BF998 T/R
		20	.02	—	568-1970-1-ND	.55	10.24	30.71	3,000	177.45/M	BF991 T/R
		20	.03	—	568-1972-1-ND	.59	11.03	33.08	3,000	191.10/M	BF994S T/R
		20	.04	—	568-1971-1-ND	.55	10.24	30.71	3,000	177.45/M	BF992 T/R
4	SOT-143R	6	.03	—	568-1960-1-ND	.58	10.82	32.45	3,000	187.46/M	BF1211R
					568-1963-1-ND	.58	10.82	32.45	3,000	187.46/M	BF1212R
5	SOT-343R	6	.03	—	568-1961-1-ND	.58	10.82	32.45	3,000	187.46/M	BF1211WR
		6	.03	—	568-1964-1-ND	.58	10.82	32.45	3,000	187.46/M	BF1212WR
		12	.04	—	568-1969-1-ND	.47	9.45	28.35	3,000	127.58/M	BF908WR T/R
6	LFPAK	55	40	21	568-2174-1-ND	1.58	31.58	94.74	1,500	821.08/M	PH1955L T/R
		25	100	4.1	568-2177-1-ND	1.80	36.00	108.00	1,500	1108.38/M	PH2625L T/R
		25	78.7	9.5	568-2181-1-ND	1.71	34.21	102.63	1,500	889.46/M	PH6325L T/R
		20	100	2.7	568-2176-1-ND	2.30	45.90	137.70	1,500	1193.40/M	PH2520U T/R
		20	100	3.7	568-2178-1-ND	2.33	46.67	145.19	1,500	1322.30/M	PH3120L T/R
		25	100	0.003	568-2344-1-ND	2.30	45.90	137.70	1,500	1193.40/M	PH2925U T/R
		30	100	0.0032	568-2345-1-ND	2.11	42.11	126.32	1,500	1094.74/M	PH3230S T/R
		30	98	0.0038	568-2346-1-ND	1.92	38.42	115.26	1,500	998.92/M	PH3830L T/R
		30	80	7.2	568-2179-1-ND	1.87	37.37	112.11	1,500	971.62/M	PH4530L T/R
		30	80	0.0057	568-2348-1-ND	1.79	35.79	107.37	1,500	930.54/M	PH5330E T/R
		30	68	0.0079	568-2349-1-ND	1.50	30.00	90.00	1,500	780.00/M	PH7030L T/R
		30	67	0.0082	568-2350-1-ND	1.58	31.58	94.74	1,500	821.08/M	PH8230E T/R
		40	94.5	4.1	568-2180-1-ND	1.97	39.48	118.43	1,500	1026.36/M	PH4840S T/R
		100	34.3	23	568-2175-1-ND	2.37	47.37	142.11	1,500	1231.62/M	PH20100S T/R
7	D2PAK	40	75	8	568-2182-1-ND	1.46	29.25	87.75	800	631.80	PHB101NQ04T /T3
		55	75	9.3	568-2183-1-ND	2.28	45.50	136.50	800	982.80	PHB110NQ06LT /T3
		40	75	7.1	568-2184-1-ND	2.57	51.48	160.16	800	1189.76	PHB129NQ04LT /T3
		55	75	6.4	568-2185-1-ND	2.78	55.58	172.90	—	—	PHB146NQ06LT /T3
		25	75	5	568-2186-1-ND	1.95	39.00	117.00	800	842.40	PHB152NQ03LTA/T3
		40	75	4.8	568-2187-1-ND	2.78	55.58	172.90	—	—	PHB174NQ04LT /T3
		55	75	4.4	568-2188-1-ND	2.90	57.92	180.18	800	1338.48	PHB191NQ06LT /T3
		40	75	3.5	568-2189-1-ND	2.90	57.92	180.18	—	—	PHB222NQ04LT /T3
		75	27	50	568-2190-1-ND	1.52	30.40	91.20	800	656.64	PHB29N08T /T3
		150	45.1	42	568-2192-1-ND	1.75	35.00	105.00	—	—	PHB45NQ15T /T3
1D	SOT-23	20	5.7	0.036	568-2353-1-ND	.45	9.00	27.00	3,000	121.50/M	PMV30UN T/R
1A		20	5.9	0.037	568-2354-1-ND	.58	11.50	34.50	3,000	155.25/M	PMV31XN T/R
1A		30	4.9	0.047	568-2355-1-ND	.50	9.38	28.13	3,000	162.50/M	PMV40UN T/R
1A		30	5.4	0.042	568-2356-1-ND	.58	11.50	34.50	3,000	155.25/M	PMV45EN T/R
1A		30	4.7	0.055	568-2357-1-ND	.58	11.50	34.50	3,000	155.25/M	PMV60EN T/R
Dual N-Channel											
8	8-TSSOP	20	11.6	0.0185	568-2359-1-ND	.78	16.25	52.00	2,500	338.00/M	PMWD15UN /T3
		20	9.9	0.019	568-2360-1-ND	.96	18.00	54.00	2,500	312.00/M	PMWD16UN /T3
		30	5.6	0.023	568-2361-1-ND	.96	18.00	54.00	—	—	PMWD19UN /T3
		20	10.4	0.024	568-2362-1-ND	.84	15.75	47.25	2,500	273.00/M	PMWD20XN /T3
		20	7.8	0.03	568-2363-1-ND	.96	18.00	54.00	2,500	312.00/M	PMWD26UN /T3
9	SOT-363	20	0.87	0.34	568-2365-1-ND	.47	9.45	25.92	3,000	122.40/M	PMGD280UN T/R
		20	0.86	0.35	568-2366-1-ND	.47	9.45	25.92	3,000	122.40/M	PMGD290XN T/R
		30	0.74	0.44	568-2367-1-ND	.47	9.45	25.92	3,000	122.40/M	PMGD370XN T/R
		30	0.71	0.48	568-2368-1-ND	.47	9.45	25.92	3,000	122.40/M	PMGD400UN T/R
		60	0.49	0.92	568-2369-1-ND	.47	9.45	25.92	3,000	122.40/M	PMGD780SN T/R
		30	0.125	8	568-2370-1-ND	.50	10.00	30.00	3,000	135.00/M	PMGD8000LN T/R
P-Channel											
1A	SOT-23	50	0.13	10	568-1660-1-ND	.28	5.33	14.77	3,000	56.80/M	BSS84 T/R
		20	3.9	0.076	568-2358-1-ND	.50	10.00	30.00	3,000	135.00/M	PMV65XP T/R
JFET N-Channel											
1B	SOT-23	20	.025	—	568-1968-1-ND	.50	9.45	28.35	3,000	163.80/M	BF862 T/R
		25	.015	—	568-1967-1-ND	.55	10.24	30.71	3,000	177.45/M	BF861B T/R
		25	.06	50	568-2083-1-ND	.42	8.22	23.14	3,000	94.68/M	PMBFJ310 T/R
		30	.025	—	568-1966-1-ND	.50	9.45	28.35	3,000	163.80/M	BF545C T/R
1C	SOT-23	25	.08	8	568-2078-1-ND	.51	10.36	28.40	3,000	134.13/M	PMBFJ108 T/R
			.04	12	568-2079-1-ND	.51	10.36	28.40	3,000	134.13/M	PMBFJ109 T/R
			.01	18	568-2080-1-ND	.51	10.36	28.40	3,000	134.13/M	PMBFJ110 T/R
1D	SOT-23	20	.007	—	568-1965-1-ND	.69	13.00	38.99	3,000	225.29/M	BF511 T/R
9	SOT-363	25	60	50	568-2084-1-ND	.75	15.63	50.00	3,000	325.00/M	PMBFJ620 T/R
JFET P-Channel											
1C	SOT-23	30	.002	250	568-2082-1-ND	.51	10.36	28.40	3,000	134.13/M	PMBFJ176 T/R
			.02	85	568-2081-1-ND	.51	10.36	28.40	3,000	134.13/M	PMBFJ174 T/R
Trench N-Channel											
10	SOT-323	30	0.83	480	568-3244-1-ND	.39	7.88	21.60	3,000	93.50/M	PMF400UN T/R
11	D-PAK	55	11	120	568-4281-1-ND	.75	14.10	42.30	2,500	244.40/M	BUK92150-55A /T3
		55	13	56	568-4284-1-ND	.90	16.80	50.40	2,500	291.20/M	BUK9277-55A /T3

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1 — SOT-23

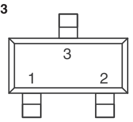

A	B	C	D
1. Gate	1. Source	1. Drain	1. Gate
2. Source	2. Drain	2. Source	2. Drain
3. Drain	3. Gate	3. Gate	3. Source

Fig. 2 — SOT-223

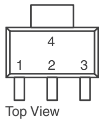

1. Gate
2. Drain
3. Source
4. Drain

Fig. 3 — SOT-143B

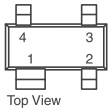

A	B
1. Substrate (b)	1. Source
2. Source	2. Drain
3. Drain	3. Gate 2
4. Gate	4. Gate 1

Fig. 4 — SOT-143R

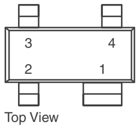

1. Source
2. Drain
3. Gate 2
4. Gate 1

Fig. 5 — SOT-343R

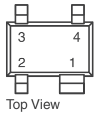

1. Source
2. Drain
3. Gate 2
4. Gate 1

Fig. 6 — LFPAK

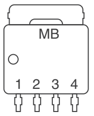

1,2,3: Source (S)
4: Gate (G)
MB: Mounting Base,
Connected to Drain (D)

Fig. 7 — D2PAK

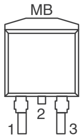

1. Gate (G)
2. Drain (D)
3. Source (S)
MB: Mounting Base,
Connected to Drain (D)

Fig. 8 — 8-TSSOP

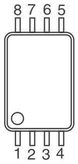

1,8: Drain (D)
2,3: Source 1 (S_1)
4: Gate 1 (G_1)
5: Gate 2 (G_2)
6,7: Source 2 (S_2)

Fig. 9 — SOT-363

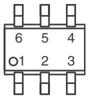

1. Source (1)
2. Source (2)
3. Gate (2)
4. Drain (2)
5. Drain (1)
6. Gate (1)

Fig. 10 — SOT-323

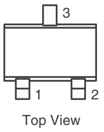

1. Gate (G)
2. Source (S)
3. Drain (D)

Fig. 11 — D-PAK

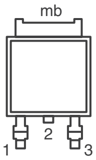

1. Gate (G)
2. Source (S)
3. Drain (D)
MB. Mounting Base,
Connected to Drain (D)

Diodes

Fig. 1 — DO-35

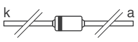

Fig. 2 — SOD-110

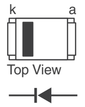

Fig. 3 — SOD-523

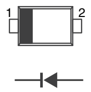

Fig. 4 — SOD-80C

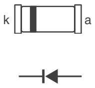

Fig. 5 — SOT-23

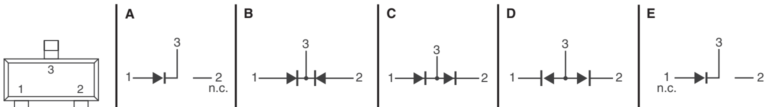

A
1. Anode
2. N.C.
3. Cathode

B
1. Anode (a1)
2. Anode (a2)
3. Common Cathode

C
1. Anode
2. Cathode
3. Common

D
1. Cathode 1
2. Cathode 2
3. Common Anode

E
1. N.C.
2. Anode
3. Cathode

Fig. 6 — SOT-323

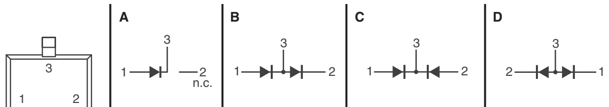

A
1. Anode
2. N.C.
3. Cathode

B
1. Anode
2. Cathode
3. Common

C
1. Anode 1
2. Anode 2
3. Common Cathode

D
1. Cathode 1
2. Cathode 2
3. Common Anode

Fig. 7 — SOT-143B

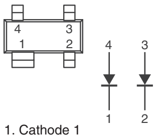

1. Cathode 1
2. Cathode 2
3. Anode 2
4. Anode 1

Fig. 8 — SOD-87

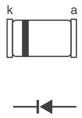

Fig. 9 — TO-220AB

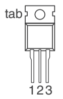

1. Anode 1
2. Cathode
3. Anode 2
Tab - Cathode

Fig. 10 — TO-220AC

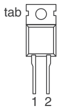

1. Cathode
2. Anode
Tab - Cathode

Fig. 11 — TO-220F

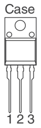

1. Anode 1
2. Cathode
3. Anode 2
Case-Isolated

Fig. 12 — TO-247

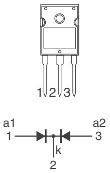

1. Anode 1
2. Cathode
3. Anode 2

Fig. 13 — D2PAK

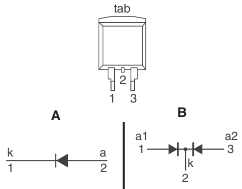

A
1. No Connection
2. Cathode
3. Anode
Tab - Cathode

B
1. Anode 1
2. Cathode
3. Anode 2
Tab - Cathode

Fig. 14 — DO-34

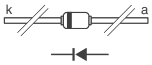

Fig. 15 — SOD-323, SOD-323F

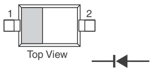

1. Cathode
2. Anode

Fig. 16 — SOT-666

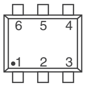

1. Anode 1
2. Anode 2
3. Common Cathode (3,4)
4. Anode 3
5. Anode 4
6. Common Cathode (1,2)

Fig. 17 — SOT-363

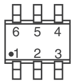

1. Anode 1
2. Cathode 2
3. Anode 3/ Cathode 4
4. Anode 4
5. Cathode 3
6. Cathode 1/ Anode 2

Fig. 18 — SC-74 *NEW!*

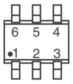

1. Cathode
2. Cathode
3. Anode
4. Anode
5. Cathode
6. Cathode

Fig. 19 — SOD-123F

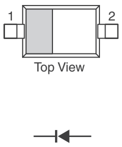

1. Cathode
2. Anode

Fig. 20 — SOD-882

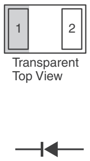

1. Cathode
2. Anode

High Speed Diodes

Fig.	Package	Peak Reverse Voltage V_{RRM} (V)	Continuous Forward Current (mA)	Maximum Forward Voltage@ V_F (V)	Maximum Forward Voltage@ I_F (mA)	Maximum Reverse Recovery Time Trr (ns)	Power Dissi-pation Pd (mW)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	NXP Part No.
1	DO-35	100	200	1	10	4	500	568-1360-1-ND	.04	.68	1.95	568-1360-2-ND	10,000	5.10/M	1N4148 T/R
			200	0.72	5	4	500	568-1361-1-ND	.06	1.10	3.19	568-1361-2-ND	10,000	8.33/M	1N4448 T/R
2	SOD-110	85	250	1	50	4	400	568-1599-1-ND	.42	8.13	22.88	568-1599-2-ND	3,000	93.60/M	BAS216 T/R
3	SOD-523	85	250	1	50	4	500	568-1603-1-ND	.27	5.06	14.04	568-1603-2-ND	3,000	54.00/M	BAS516 T/R
4	SOD-80C	75	200	1	100	4	500	568-1601-1-ND	.13	2.48	7.15	568-1601-2-ND	2,500	25.86/M	BAS32L T/R
		100	200	1	10	4	500	568-1749-1-ND	.08	1.58	4.55	568-1749-2-ND	2,500	16.46/M	PMLL4148L T/R
			200	0.72	5	4	500	568-1750-1-ND	.08	1.58	4.55	568-1750-2-ND	2,500	16.46/M	PMLL4448 T/R
5A	SOT-23	85	215	1	50	4	250	568-1596-1-ND	.08	1.58	4.55	568-1596-2-ND	3,000	16.45/M	BAS16 T/R
								568-1737-1-ND	.08	1.58	4.55	568-1737-2-ND	3,000	16.45/M	PMBD914 T/R
5B	SOT-23	60	125	1	100	4	250	568-1623-1-ND	.08	1.58	4.55	568-1623-2-ND	3,000	16.45/M	BAV74 T/R
		85	125	1	50	4	250	568-1622-1-ND	.08	1.58	4.55	568-1622-2-ND	3,000	16.45/M	BAV70 T/R
5C	SOT-23	85	125	1	50	4	250	568-1624-1-ND	.09	1.76	5.07	568-1624-2-ND	3,000	18.33/M	BAV99 T/R
			140	1	10	3	250	568-1619-1-ND	.19	3.60	10.40	568-1619-2-ND	3,000	37.60/M	BAV199 T/R
		100	125	1	50	4	250	568-1736-1-ND	.08	1.58	4.55	568-1736-2-ND	3,000	16.45/M	PMBD7000 T/R
5D	SOT-23	85	125	1	50	4	250	568-1626-1-ND	.08	1.58	4.55	568-1626-2-ND	3,000	16.45/M	BAW56 T/R
5E	SOT-23	50	215	1.25	150	4	250	568-3424-1-ND	.27	5.06	14.04	568-3424-2-ND	3,000	54.00/M	BAL74 T/R
6A	SOT-323	85	175	1	50	4	200	568-1597-1-ND	.14	2.70	7.80	568-1597-2-ND	3,000	28.20/M	BAS16W
6B	SOT-323	85	130	1	50	4	200	568-1625-1-ND	.13	2.48	7.15	568-1625-2-ND	3,000	25.85/M	BAV99W T/R
7	SOT-143B	85	215	1	50	4	250	568-1600-1-ND	.26	4.95	14.30	568-1600-2-ND	3,000	51.70/M	BAS28 T/R
		60	150	1	200	6	250	568-1604-1-ND	.25	4.73	13.65	568-1604-2-ND	3,000	49.35/M	BAS56 T/R

General Purpose Diodes

Fig.	Package	Peak Reverse Voltage V_{RRM} (V)	Continuous Forward Current I_F (mA)	Power Dissi-pation (mW)	Peak Repetitive Surge I_{FRM} (mA)	Diode Cap. (pF)	Recovery Time (ns)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	NXP Part No.
4	SOD-80C	250	250	400	625	5	50	568-1618-1-ND	.24	4.50	13.00	568-1618-2-ND	2,500	47.00/M	BAV103 T/R
5A	SOT-23	250	200	250	625	5	50	568-1598-1-ND	.08	1.58	4.55	568-1598-2-ND	3,000	16.45/M	BAS21 T/R
5C	SOT-23	250	125	250	625	5	50	568-1621-1-ND	.22	4.05	11.70	568-1621-2-ND	3,000	42.30/M	BAV23S T/R
7	SOT-143B	250	225	250	625	5	50	568-1620-1-ND	.27	5.06	14.04	568-1620-2-ND	3,000	54.00/M	BAV23 T/R

(Continued)

Ultra Fast Recovery Diodes

Fig.	Package	Peak Reverse Voltage V_{RRM} (V)	Average Forward Current I_F (A)	Maximum Forward Voltage @ V_F (V)	I_F (A)	Maximum Reverse Recovery Time (ns)	Digi-Key Part No.	Pricing 1	25	100	NXP Part No.
9	TO-220AB	600	10	2	5	30	568-1781-ND*	2.26	45.20	135.60	BYC10-600CT
		200	8	0.895	5	25	568-3430-5-ND	.78	14.57	43.72	BYQ28E-200
		100	20	0.95	8	25	568-3435-5-ND	.95	19.69	63.00	BYV32E-100
		200	20	0.85	8	25	568-1667-5-ND	.85	17.72	56.70	BYV32E-200
		400	20	1.05	10	60	568-3437-5-ND	1.45	30.19	96.60	BYV34-400
		500	20	1.05	10	60	568-3438-5-ND	1.31	26.25	78.75	BYV34-500
		200	30	0.85	15	28	568-3439-5-ND	1.31	26.25	78.75	BYV42E-200
10	TO-220AC	150	8	0.895	8	25	568-3441-5-ND	.76	14.18	42.53	BYW29E-150
		200	8	1.05	8	25	568-1669-5-ND	.69	12.98	38.95	BYW29E-200
		600	5	1.75	5	19	568-3429-5-ND	.80	16.56	53.00	BYC5-600
		400	9	1.03	8	60	568-3432-5-ND	.76	14.18	42.53	BYV29-400
		500	9	1.03	8	60	568-3433-5-ND	1.14	23.81	76.20	BYV29-500
		200	14	0.9	14	30	568-3440-ND*	.82	17.06	54.60	BYV79E-200
11	TO-220F	200	10	0.895	5	25	568-3431-ND*	.99	20.69	66.20	BYQ28X-200
12	TO-247	200	30	1.05	15	22	568-1668-5-ND	1.44	28.88	86.63	BYV72EW-200
13A	D2PAK	500	9	1.03	8	60	568-3434-1-ND◊ 568-3434-2-ND†	.94	19.56 350.56/800	62.60	BYV29B-500 /T3 BYV29B-500 /T3
13B	D2PAK	200	20	0.85	8	25	568-3436-1-ND◊ 568-3436-2-ND†	1.69	33.85 731.16/800	101.55	BYV32EB-200 /T3 BYV32EB-200 /T3

* Bulk ◊ Cut Tape † Tape and Reel

Schottky Barrier Diodes

Fig.	Package	Reverse Voltage V_R (V)	Continuous Forward Current I_F (mA)	Maximum Forward Voltage @ V_F (mVDC)	@ I_F (mA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part-No	Tape and Reel Qty.	Pricing	NXP Part No.
2	SOD-110	30	200	320	1	568-3412-1-ND	.46	9.19	25.20	568-3412-2-ND	3,000	119.00/M	BAT254 T/R
4	SOD-80C	30	200	320	1	568-1609-1-ND	.27	5.06	14.04	568-1609-2-ND	2,500	54.00/M	BAS85 T/R
		50	200	380	1	568-3411-1-ND	.37	6.94	19.24	568-3411-2-ND	2,500	74.00/M	BAS86 T/R
5A	SOT-23	20	500	390	500	568-4111-1-ND	.41	8.10	24.30	568-4111-2-ND	3,000	109.35/M	PMEG2005ET T/R
		20	1000	500	1000	568-4100-1-ND★	.42	8.40	23.04	—	—	—	PMEG2010ET T/R
		30	200	320	1	568-1610-1-ND	.12	2.25	6.50	568-1610-2-ND	3,000	23.50/M	BAT54 T/R
		30	500	430	500	568-4123-1-ND★	.41	8.10	24.30	568-4123-2-ND★	3,000	109.35/M	PMEG3005ET T/R
		30	1000	560	1000	568-4101-1-ND★	.52	10.50	28.80	568-4101-2-ND★	3,000	136.00/M	PMEG3010ET T/R
		40	500	470	500	568-4134-1-ND★	.41	8.10	24.30	568-4134-2-ND★	3,000	109.35/M	PMEG4005ET T/R
		40	1000	640	1000	568-4103-1-ND★	.52	10.50	28.80	568-4103-2-ND★	3,000	136.00/M	PMEG4010ET T/R
		70	70	410	1	568-1608-1-ND	.22	4.05	11.70	568-1608-2-ND	3,000	42.30/M	BAS70 T/R
5B	SOT-23	30	200	320	1	568-1612-1-ND	.15	2.81	8.13	568-1612-2-ND	3,000	29.38/M	BAT54C T/R
		30	200	260	1	568-3421-1-ND	.37	7.48	20.52	568-3421-2-ND	3,000	96.90/M	BAT754C T/R
		40	200	420	100	568-3419-1-ND	.47	9.30	27.90	568-3419-2-ND	3,000	125.55/M	BAT721C T/R
		70	70	410	1	568-1606-1-ND	.22	4.05	11.70	568-1606-2-ND	3,000	42.30/M	BAS70-05 T/R
5C	SOT-23	30	200	320	1	568-1614-1-ND	.15	2.81	8.13	568-1614-2-ND	3,000	29.38/M	BAT54S T/R
		30	200	260	1	568-3422-1-ND	.37	7.48	20.52	568-3422-2-ND	3,000	96.90/M	BAT754S T/R
		40	120	380	1	568-1602-1-ND	.22	4.05	11.70	568-1602-2-ND	3,000	42.30/M	BAS40-04 T/R
		40	200	420	100	568-3420-1-ND	.47	9.30	27.90	568-3420-2-ND	3,000	125.55/M	BAT721S T/R
		70	70	410	1	568-1605-1-ND	.22	4.05	11.70	568-1605-2-ND	3,000	42.30/M	BAS70-04 T/R
5D	SOT-23	30	200	320	1	568-1611-1-ND	.15	2.81	8.13	568-1611-2-ND	3,000	29.38/M	BAT54A T/R
		40	200	420	100	568-3418-1-ND	.47	9.30	27.90	568-3418-2-ND	3,000	125.55/M	BAT721A T/R
		70	70	410	1	568-1607-1-ND	.22	4.05	11.70	568-1607-2-ND	3,000	42.30/M	BAS70-06 T/R
6A	SOT-323	30	200	320	1	568-3416-1-ND	.23	4.28	12.35	568-3416-2-ND	3,000	44.65/M	BAT54W T/R
6B	SOT-323	70	70	410	1	568-3408-1-ND	.37	7.48	20.52	568-3408-2-ND	3,000	96.90/M	BAS70-04W T/R
		30	200	320	1	568-1615-1-ND	.23	4.28	12.35	568-1615-2-ND	3,000	44.65/M	BAT54SW T/R
6C	SOT-323	30	200	320	1	568-1613-1-ND	.23	4.28	12.35	568-1613-2-ND	3,000	44.65/M	BAT54CW T/R
6D	SOT-323	30	200	320	1	568-3413-1-ND	.23	4.28	12.35	568-3413-2-ND	3,000	44.65/M	BAT54AW T/R
7	SOT-143B	70	70	410	1	568-3409-1-ND	.36	7.03	19.80	568-3409-2-ND	3,000	81.00/M	BAS70-07 T/R
		30	200	320	1	568-1616-1-ND	.30	5.63	15.60	568-1616-2-ND	3,000	60.00/M	BAT74 T/R
8	SOD-87	20	1000	450	1	568-1179-1-ND	.40	8.00	24.00	568-1179-2-ND	2,000	112.00/M	PRLL5817 T/R
		30	1000	550	1	568-3423-1-ND	.40	8.00	24.00	568-3423-2-ND	2,000	112.00/M	PRLL5818 T/R
		40	1000	600	1	568-1180-1-ND	.40	8.00	24.00	568-1180-2-ND	2,000	112.00/M	PRLL5819 T/R
14	DO-34	30	200	320	1	568-1617-1-ND	.28	5.18	14.95	568-1617-2-ND	10,000	39.10/M	BAT85 T/R
15	SOD-323	30	200	320	1	568-3406-1-ND	.25	4.69	13.00	568-3406-2-ND	3,000	50.00/M	1PS76SB10 T/R
	SOD-323F	10	2000	460	2000	568-4106-1-ND	.48	9.00	27.00	568-4106-2-ND	3,000	156.00/M	PMEG1020EJ T/R
		10	3000	530	3000	568-4108-1-ND★	.50	10.00	30.00	568-4108-2-ND★	3,000	135.00/M	PMEG1030EJ T/R
		20	500	390	500	568-4110-1-ND	.43	8.44	23.76	568-4110-2-ND	3,000	97.20/M	PMEG2005EJ T/R
		20	1000	500	1000	568-4115-1-ND★	.42	8.40	23.04	568-4115-2-ND★	3,000	108.80/M	PMEG2010EJ T/R
		20	1000	550	1000	568-4113-1-ND	.42	8.40	23.04	568-4113-2-ND	3,000	108.80/M	PMEG2010AEJ T/R
		20	1500	660	1500	568-4117-1-ND	.46	9.19	25.20	568-4117-2-ND	3,000	119.00/M	PMEG2015EJ T/R
		20	2000	525	2000	568-4119-1-ND★	.54	10.13	30.38	568-4119-2-ND★	3,000	175.50/M	PMEG2020EJ T/R
		30	500	430	500	568-4122-1-ND	.43	8.44	23.76	568-4122-2-ND	3,000	97.20/M	PMEG3005EJ T/R
		30	1000	520	1000	568-4124-1-ND	.42	8.40	23.04	568-4124-2-ND	3,000	108.80/M	PMEG3010CEJ T/R
		30	1000	560	1000	568-4126-1-ND★	.42	8.40	23.04	568-4126-2-ND★	3,000	108.80/M	PMEG3010EJ T/R
		30	1500	550	1500	568-4128-1-ND	.46	9.19	25.20	568-4128-2-ND	3,000	119.00/M	PMEG3015EJ T/R
		30	2000	620	2000	568-4130-1-ND	.45	9.00	27.00	568-4130-2-ND	3,000	121.50/M	PMEG3020EJ T/R
		40	500	470	500	568-4133-1-ND	.43	8.44	23.76	568-4133-2-ND	3,000	97.20/M	PMEG4005EJ T/R
		40	1000	640	1000	568-4137-1-ND★	.42	8.40	23.04	568-4137-2-ND★	3,000	108.80/M	PMEG4010EJ T/R
		40	1000	570	1000	568-4135-1-ND	.42	8.40	23.04	568-4135-2-ND	3,000	108.80/M	PMEG4010CEJ T/R
		60	1000	660	1000	568-4138-1-ND★	.42	8.40	23.04	568-4138-2-ND★	3,000	108.80/M	PMEG6010CEJ T/R

(Continued)

Fig.	Package	Reverse Voltage V_R (V)	Continuous Forward Current I_F (mA)	Maximum Forward Voltage @ V_F (mVDC)	Maximum Forward Voltage @ I_F (mA)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part-No	Tape and Reel Qty.	Tape and Reel Pricing	NXP Part No.
16	SOT-666	30	200	320	1	568-3414-1-ND	.53	10.50	31.50	568-3414-2-ND	4,000	141.75/M	BAT54CV T/R
17	SOT-363	30	200	320	1	568-3417-1-ND	.42	8.40	25.20	568-3417-2-ND	3,000	113.40/M	BAT54XY T/R
18	SC-74	60	1000	650	1000	568-4341-1-ND★ ***NEW!***	.48	9.60	28.80	568-4342-2-ND★ ***NEW!***	3,000	129.60/M	PMEG6010AED T/R
19	SOD-123F	10	2000	460	2000	568-4105-1-ND	.48	9.08	27.23	568-4105-2-ND	3,000	157.30/M	PMEG1020EH T/R
		10	3000	530	3000	568-4107-1-ND★	.50	10.00	30.00	568-4107-2-ND★	3,000	135.00/M	PMEG1030EH T/R
		20	500	390	500	568-4109-1-ND	.43	8.44	23.76	568-4109-2-ND	3,000	97.20/M	PMEG2005EH T/R
		20	1000	430	1000	568-4112-1-ND	.42	8.40	23.04	568-4112-2-ND	3,000	108.80/M	PMEG2010AEH T/R
		20	1000	500	1000	568-4114-1-ND★	.42	8.40	23.04	568-4114-2-ND★	3,000	108.80/M	PMEG2010EH T/R
		20	1500	660	1500	568-4116-1-ND	.46	9.19	25.20	568-4116-2-ND	3,000	119.00/M	PMEG2015EH T/R
		20	2000	525	2000	568-4118-1-ND★	.54	10.20	30.60	568-4118-2-ND★	3,000	176.80/M	PMEG2020EH T/R
		30	500	430	500	568-4121-1-ND	.43	8.44	23.76	568-4121-2-ND	3,000	97.20/M	PMEG3005EH T/R
		30	1000	560	1000	568-4125-1-ND★	.42	8.40	23.04	568-4125-2-ND★	3,000	108.80/M	PMEG3010EH T/R
		30	1500	550	1500	568-4127-1-ND	.46	9.19	25.20	568-4127-2-ND	3,000	119.00/M	PMEG3015EH T/R
		30	2000	620	2000	568-4129-1-ND	.45	9.00	27.00	568-4129-2-ND	3,000	121.50/M	PMEG3020EH T/R
		40	120	380	1	568-3407-1-ND	.33	6.19	17.16	568-3407-2-ND	3,000	66.00/M	BAS40H T/R
		40	500	470	500	568-4132-1-ND	.43	8.44	23.76	568-4132-2-ND	3,000	97.20/M	PMEG4005EH T/R
		40	1000	570	1000	568-4102-1-ND	.40	8.00	24.00	568-4102-2-ND	3,000	108.00/M	PMEG4010CEH T/R
		40	1000	640	1000	568-4136-1-ND★	.42	8.40	23.04	568-4136-2-ND★	3,000	108.80/M	PMEG4010EH T/R
		60	1000	660	1000	568-4104-1-ND★	.52	10.50	28.80	568-4104-2-ND★	3,000	136.00/M	PMEG6010CEH T/R
		70	70	410	1	568-3410-1-ND	.33	6.19	17.16	568-3410-2-ND	3,000	66.00/M	BAS70H T/R
		30	200	400	10	568-3415-1-ND	.33	6.19	17.16	568-3415-2-ND	3,000	66.00/M	BAT54H T/R
20	SOD-882	30	200	500	100	568-4120-1-ND	.46	9.19	25.20	568-4120-2-ND	10,000	105.00/M	PMEG3002AEL T/R
		40	200	400	100	568-4131-1-ND	.46	9.19	25.20	568-4131-2-ND	10,000	105.00/M	PMEG4002EL T/R

★ **NXPMEGA1-KIT-ND** (3806684) ***NEW!*** 25 each of 18 values **$39.99**

Variable Capacitance Diodes

Fig.	Package	Reverse Voltage V_R (V)	CD @ 1MHz @V_R	CD @ 1MHz (pF) Maximum	CD @ 1MHz @ V_R	CD @ 1MHz (pF) Maximum	Diode Series Resistance (Ω) Maximum	Diode Series Resistance @ MHz	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Pricing 3,000	NXP Part No.
3	SOD-523	6	2.3	11.2	0.2	33.5	0.6	100	568-1953-1-ND	.56	10.50	31.50	568-1953-2-ND	182.00/M	BB202 T/R
		30	28	1.055	0.5	17	3	470	568-1948-1-ND	.44	8.82	26.46	568-1948-2-ND	119.07/M	BB181 T/R
			28	2.225	1	21.26	0.75	470	568-1946-1-ND	.47	9.35	28.05	568-1946-2-ND	126.23/M	BB179 T/R
		6	1	4.5	4	2.55	0.4	470	568-3425-1-ND	.45	9.06	24.84	568-3425-2-ND	117.30/M	BB141 T/R
			1	7.2	4	2.95	0.6	470	568-3428-1-ND	.44	8.82	26.46	568-3428-2-ND	119.07/M	BB145B T/R
		32	25	2.92	2	34.2	0.75	470	568-1950-1-ND	.43	8.56	25.68	568-1950-2-ND	115.56/M	BB187 T/R
			28	2.25	1	20	0.75	470	568-1947-1-ND	.44	8.82	26.46	568-1947-2-ND	119.07/M	BB179B T/R
			28	2.754	1	42.35	0.8	100	568-1945-1-ND	.55	11.05	33.15	568-1945-2-ND	149.18/M	BB178 T/R
			28	2.89	1	62	1.2	100	568-1949-1-ND	.51	10.20	27.97	568-1949-2-ND	132.09/M	BB182 T/R
5A	SOT-23	30	25	6	3	32	0.7	200	568-1957-1-ND	.41	8.27	22.68	568-1957-2-ND	107.10/M	BBY40 T/R
5B	SOT-23	15	7.5	29.7	1	86	0.4	100	568-1954-1-ND	.71	13.33	39.98	568-1954-2-ND	231.01/M	BB207 T/R
			7.5	29.7	1	102	0.5	100	568-1952-1-ND	.51	10.19	30.57	568-1952-2-ND	137.57/M	BB201 T/R
15	SOD-323	10	7.5	5.4	1	23.2	0.5	100	568-1955-1-ND	.60	11.25	33.75	568-1955-2-ND	195.00/M	BB208-03 T/R
		30	28	1.055	0.5	17	3	470	568-1944-1-ND	.44	8.82	26.46	568-1944-2-ND	119.07/M	BB131 T/R

PIN Diodes

Fig.	Package	Continuous Reverse Voltage Maximum (V)	Continuous Forward Current I_F (mA)	RD Maximum Ω @ 10mA	CD Maximum (pF) @ 1V	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	NXP Part No.
3	SOD-523	30	100	0.9	0.9	568-1937-1-ND	.45	9.08	27.24	568-1937-2-ND	3,000	122.58/M	BAP65-02 T/R
		35	100	0.5	1.05	568-1912-1-ND	.47	9.52	26.10	568-1912-2-ND	3,000	123.25/M	BA891 T/R
		50	100	1.8	0.32	568-1926-1-ND	.42	8.42	25.26	568-1926-2-ND	3,000	113.67/M	BAP63-02 T/R
			50	5	0.55	568-1915-1-ND	.45	9.08	27.24	568-1915-2-ND	3,000	122.58/M	BAP50-02 T/R
			100	7	0.4	568-1940-1-ND	.45	9.08	27.24	568-1940-2-ND	3,000	122.58/M	BAP70-02 T/R
		60	50	10	0.55	568-1921-1-ND	.45	9.08	27.24	568-1921-2-ND	3,000	122.58/M	BAP51-02 T/R
			100	1.8	0.45	568-1913-1-ND	.45	9.08	27.24	568-1913-2-ND	3,000	122.58/M	BAP1321-02 T/R
		175	100	3.8	0.35	568-1929-1-ND	.45	9.08	27.24	568-1929-2-ND	3,000	122.58/M	BAP64-02 T/R
5A	SOT-23	35	100	0.7 @ 5mA	1pF @ 20V	568-1943-1-ND	.39	7.86	21.56	568-1943-2-ND	3,000	101.83/M	BAT18 T/R
5B	SOT-23	50	50	5	0.6	568-1919-1-ND	.59	11.84	35.52	568-1919-2-ND	3,000	159.84/M	BAP50-05 T/R
			100	7	0.43	568-1942-1-ND	.59	11.84	35.52	568-1942-2-ND	3,000	159.84/M	BAP70-05 T/R
		175	100	3.8	0.37	568-1933-1-ND	.59	11.84	35.52	568-1933-2-ND	3,000	159.84/M	BAP64-05 T/R
5C	SOT-23	50	50	5	0.6	568-1917-1-ND	.59	11.84	35.52	568-1917-2-ND	3,000	159.84/M	BAP50-04 T/R
		175	100	3.8	0.37	568-1931-1-ND	.59	11.84	35.52	568-1931-2-ND	3,000	159.84/M	BAP64-04 T/R
5D	SOT-23	175	100	3.8	0.37	568-1935-1-ND	.59	11.84	35.52	568-1935-2-ND	3,000	159.84/M	BAP64-06 T/R
6B	SOT-323	50	50	5	0.6	568-1918-1-ND	.59	11.84	35.52	568-1918-2-ND	3,000	159.84/M	BAP50-04W T/R
		100	100	3.8	0.37	568-1932-1-ND	.59	11.84	35.52	568-1932-2-ND	3,000	159.84/M	BAP64-04W T/R
6C	SOT-323	30	100	0.9	0.9	568-1939-1-ND	.59	11.84	35.52	568-1939-2-ND	3,000	159.84/M	BAP65-05W T/R
		50	50	2.5	0.55	568-1923-1-ND	.53	9.87	29.61	568-1923-2-ND	3,000	171.08/M	BAP51-05W T/R
			50	10	0.6	568-1920-1-ND	.59	11.84	35.52	568-1920-2-ND	3,000	159.84/M	BAP50-05W T/R
			100	1.8	0.35pF @ 20V	568-1928-1-ND	.59	11.84	35.52	568-1928-2-ND	3,000	159.84/M	BAP63-05W T/R
		100	100	3.8	0.37	568-1934-1-ND	.59	11.84	35.52	568-1934-2-ND	3,000	159.84/M	BAP64-05W T/R
6D	SOT-323	100	100	3.8	0.37	568-1936-1-ND	.46	9.21	27.63	568-1936-2-ND	3,000	124.34/M	BAP64-06W T/R

(Continued)

Fig.	Package	Continuous Reverse Voltage Maximum (V)	Continuous Forward Current I_F (mA)	RD Maximum Ω @ 10mA	CD Maximum (pF) @ 1V	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	NXP Part No.
15	SOD-323	30	100	0.9	0.9	568-1938-1-ND	.45	9.08	27.24	568-1938-2-ND	3,000	122.58/M	BAP65-03 T/R
		50	50	2.5	0.55	568-1922-1-ND	.45	9.08	27.24	568-1922-2-ND	3,000	122.58/M	BAP51-03 T/R
			50	5	0.55	568-1916-1-ND	.45	9.08	27.24	568-1916-2-ND	3,000	122.58/M	BAP50-03 T/R
			100	1.8	0.35	568-1927-1-ND	.47	9.50	26.06	568-1927-2-ND	3,000	123.08/M	BAP63-03 T/R
			100	7	0.4	568-1941-1-ND	.45	9.08	27.24	568-1941-2-ND	3,000	122.58/M	BAP70-03 T/R
		60	100	1.8	0.45	568-1914-1-ND	.45	9.08	27.24	568-1914-2-ND	3,000	122.58/M	BAP1321-03 T/R
		175	100	3.8	0.35	568-1930-1-ND	.45	9.08	27.24	568-1930-2-ND	3,000	122.58/M	BAP64-03 T/R
20	SOD-882	50	100	1.2	0.23	568-1925-1-ND	.45	9.08	27.24	568-1925-2-ND	10,000	115.77/M	BAP55L T/R
		60	100	2.5	0.4	568-1924-1-ND	.45	9.08	27.24	568-1924-2-ND	10,000	115.77/M	BAP51L T/R

ESD Protection Diodes

Fig. 1

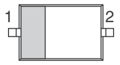

A
1. Cathode 1
2. Cathode 2

B
1. Cathode 1 (15V)
2. Cathode 2 (24V)

Fig. 2

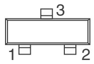

A
1. Cathode 1
2. Cathode 2
3. Double Cathode

B
1. Cathode 1
2. Cathode 2
3. Common Anode

C
1. Anode 1
2. Anode 2
3. Common Cathode

D
1. Cathode 1
2. Cathode 2
3. Common Cathode

Fig. 3

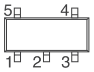

1. Cathode 1
2. Common Anode
3. Cathode 2
4. Cathode 3
5. Cathode 4

Fig. 4

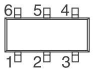

A
1. Cathode 1
2. Common Anode
3. Cathode 2
4. Cathode 3
5. Cathode 4
6. Cathode 5

B
1. Cathode 1
2. Common Anode
3. Cathode 2
4. Cathode 3
5. Common Anode
6. Cathode 4

Fig. 5

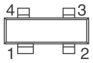

1. GND
2. I/O 1
3. I/O 2
4. V_{CC}

Fig.	Package	No. of Protected Lines Uni-directional	Bi-directional	IRM @ VRWM Max. (µA)	(V)	Cline Typ. (pF)	Ppp Max. (W)	ESD (kV)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel* Qty.	Pricing	NXP Part No.
1A	SOD-323	—	1	2	3.3	101	500	30	568-4040-1-ND	.49	9.84	27.00	3,000	127.50/M	PESD3V3L1BA T/R
		—	1	1	5	75	500	30	568-4049-1-ND	.49	9.84	27.00	3,000	127.50/M	PESD5V0L1BA T/R
		—	1	0.1	5	2.9	25	10	568-4294-1-ND ***NEW!***	.48	9.60	28.80	3,000	129.60/M	PESD5V0U1BA T/R
		—	1	0.5	5	45	130	30	568-4053-1-ND	.39	7.88	21.60	3,000	102.00/M	PESD5V0S1BA T/R
		—	1	0.05	12	19	200	30	568-4022-1-ND	.49	9.84	27.00	3,000	127.50/M	PESD12VL1BA T/R
		—	1	0.05	15	16	200	30	568-4027-1-ND	.49	9.84	27.00	3,000	127.50/M	PESD15VL1BA T/R
		—	1	0.05	24	11	200	23	568-4034-1-ND	.49	9.84	27.00	3,000	127.50/M	PESD24VL1BA T/R
1A	SOD-523	1	—	2	3.3	207	330	30	568-4044-1-ND	.39	7.88	21.60	3,000	102.00/M	PESD3V3S1UB T/R
		—	1	0.1	5	45	130	30	568-4054-1-ND	.39	7.88	21.60	3,000	102.00/M	PESD5V0S1BB T/R
		—	1	0.1	5	2.9	25	10	568-4295-1-ND ***NEW!***	.48	9.60	28.80	3,000	129.60/M	PESD5V0U1BB T/R
		1	—	1	5	152	260	30	568-4055-1-ND	.39	7.88	21.60	3,000	102.00/M	PESD5V0S1UB T/R
		1	—	0.05	24	23	160	23	568-4036-1-ND	.39	7.88	21.60	3,000	102.00/M	PESD24VS1UB T/R
1B	SOD-523	1	—	0.05	15/24	17	160	23	568-4033-1-ND‡	.48	9.38	26.40	3,000	108.00/M	PESD1LIN T/R
2A	SOT-23	—	2	2	3.3	101	350	30	568-4041-1-ND▲	.53	10.60	31.80	3,000	143.10/M	PESD3V3L2BT T/R
		—	2	1	5	75	350	30	568-4050-1-ND▲	.53	10.60	31.80	3,000	143.10/M	PESD5V0L2BT T/R
		—	2	0.1	5	35	130	30	568-4056-1-ND	.45	9.00	27.00	3,000	121.50/M	PESD5V0S2BT T/R
		—	2	0.05	12	19	200	30	568-4023-1-ND▲	.53	10.60	31.80	3,000	143.10/M	PESD12VL2BT T/R
		—	2	0.05	15	16	200	30	568-4028-1-ND▲	.53	10.60	31.80	3,000	143.10/M	PESD15VL2BT T/R
		—	2	0.05	24	11	200	23	568-4035-1-ND▲	.53	10.60	31.80	3,000	143.10/M	PESD24VL2BT T/R
		—	2	0.05	24	11	200	23	568-4032-1-ND‡	.40	8.01	21.96	3,000	103.70/M	PESD1CAN T/R
2B	SOT-23	2	1	2	3.3	207	330	30	568-4046-1-ND▲	.49	9.84	27.00	3,000	127.50/M	PESD3V3S2UT T/R
		1	—	2	3.3	1.5	80	30	568-4047-1-ND‡	.39	7.88	21.60	3,000	102.00/M	PESD3V3U1UT T/R
		2	1	1	5	152	260	30	568-4060-1-ND▲	.49	9.84	27.00	3,000	127.50/M	PESD5V2S2UT T/R
		1	—	0.05	5	1.5	80	30	568-4058-1-ND‡	.39	7.88	21.60	3,000	102.00/M	PESD5V0U1UT T/R
		2	1	1	12	38	180	30	568-4025-1-ND▲	.49	9.84	27.00	3,000	127.50/M	PESD12VS2UT T/R
		1	—	0.05	12	1.5	200	30	568-4026-1-ND‡	.39	7.88	21.60	3,000	102.00/M	PESD12VU1UT T/R
		2	1	1	15	32	160	30	568-4030-1-ND▲	.49	9.84	27.00	3,000	127.50/M	PESD15VS2UT T/R
		1	—	0.05	15	1.5	200	30	568-4031-1-ND‡	.39	7.88	21.60	3,000	102.00/M	PESD15VU1UT T/R
		2	1	1	24	23	160	23	568-4038-1-ND▲	.49	9.84	27.00	3,000	127.50/M	PESD24VS2UT T/R
		1	—	0.05	24	1.5	200	23	568-4039-1-ND‡	.39	7.88	21.60	3,000	102.00/M	PESD24VU1UT T/R
2C	SOT-23	2	—	2	3.3	207	330	30	568-4045-1-ND▲	.49	9.84	27.00	3,000	127.50/M	PESD3V3S2UAT T/R
		2	—	1	5	152	260	30	568-4057-1-ND▲	.49	9.84	27.00	3,000	127.50/M	PESD5V0S2UAT T/R
		2	—	0.05	12	38	180	30	568-4024-1-ND▲	.49	9.84	27.00	3,000	127.50/M	PESD12VS2UAT T/R
		2	—	0.05	15	32	160	30	568-4029-1-ND▲	.49	9.84	27.00	3,000	127.50/M	PESD15VS2UAT T/R
		2	—	0.05	24	23	160	23	568-4037-1-ND▲	.49	9.84	27.00	3,000	127.50/M	PESD24VS2UAT T/R
2D	SOT-23	5	4	0.01	24	30	230	30	568-4147-1-ND‡	.40	8.01	21.96	3,000	103.70/M	PESD2CAN T/R
		—	2	0.1	5	2.9	25	10	568-4296-1-ND ***NEW!***	.44	8.75	26.25	3,000	118.13/M	PESD5V0U2BT T/R
3	SOT-353	4	3	0.3	3.3	12	30	20	568-4042-1-ND	.53	10.50	31.50	3,000	141.75/M	PESD3V3L4UG T/R
		4	—	0.3	3.3	15	16	12	568-4048-1-ND	.56	10.50	31.50	3,000	182.00/M	PESD3V3V4UG T/R
		4	3	0.025	5	8	30	20	568-4051-1-ND	.48	9.00	27.00	3,000	156.00/M	PESD5V0L4UG T/R
		4	—	0.025	5	12	16	12	568-4059-1-ND	.56	10.50	31.50	3,000	182.00/M	PESD5V0V4UG T/R
4A	SOT-363	5	4	0.3	3.3	22	25	20	568-4043-1-ND	.54	10.13	30.38	3,000	175.50/M	PESD3V3L5UY T/R
		5	4	0.025	5	22	25	20	568-4052-1-ND	.54	10.13	30.38	3,000	175.50/M	PESD5V0L5UY T/R
4A	SOT-363	5	4	0.8	3.3	215	200	30	568-4141-1-ND‡	.54	10.13	30.38	3,000	175.50/M	PESD3V3S5UD T/R
		5	4	0.2	5	165	200	30	568-4142-1-ND‡	.54	10.13	30.38	3,000	175.50/M	PESD5V0S5UD T/R
		5	4	0.015	12	73	200	30	568-4143-1-ND‡	.54	10.13	30.38	3,000	175.50/M	PESD12VS5UD T/R
		5	4	0.015	15	60	200	30	568-4144-1-ND‡	.54	10.13	30.38	3,000	175.50/M	PESD15VS5UD T/R
		5	4	0.015	24	45	200	23	568-4145-1-ND‡	.54	10.13	30.38	3,000	175.50/M	PESD24VS5UD T/R
4B	SOT-457	4	3	0.8	3.3	215	200	30	568-4266-1-ND‡	.55	11.00	33.00	3,000	148.50/M	PESD3V3S4UD T/R
		4	3	0.2	5	165	200	30	568-4267-1-ND‡	.55	11.00	33.00	3,000	148.50/M	PESD5V0S4UD T/R
		4	3	0.015	12	73	200	30	568-4263-1-ND‡	.55	11.00	33.00	3,000	148.50/M	PESD12VS4UD T/R
		4	3	0.015	15	60	200	30	568-4264-1-ND‡	.55	11.00	33.00	3,000	148.50/M	PESD15VS4UD T/R
		4	3	0.015	24	45	200	23	568-4265-1-ND‡	.55	11.00	33.00	3,000	148.50/M	PESD24VS4UD T/R
4B	SC-74	2	1	0.1	3	40	200	15	568-4146-1-ND▲	.90	18.75	60.00	3,000	390.00/M	PRTR5V0U4D T/R
5	SOT-143B	2	—	0.1	5.5	1.8	200	12	568-4139-1-ND▲	1.35	28.13	90.00	3,000	585.00/M	PRTR5V0U2AX T/R
		—	2	0.1	5.5	1	200	8	568-4140-1-ND▲	.60	11.33	33.98	3,000	196.30/M	PRTR5V0U2X T/R

* For Tape and Reel part number, change 1-ND to 2-ND.

▲ **NXPESD1-KIT-ND** (Q3348629) 25 each of 18 values **$39.95**
‡ **NXPESD2-KIT-ND** (Q3455478) 25 each of 18 values **$39.95**

NXP founded by Philips

Zener Voltage Regulators

RoHS COMPLIANT

Fig. 1 — SOD-123F

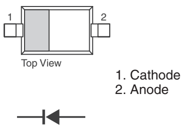

Fig. 2 — SOT-89

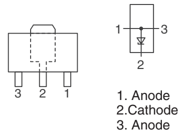

Fig. 3 — SOD-80C

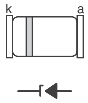

Fig. 4 — DO-35

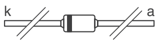

Fig. 5 — SOD-110

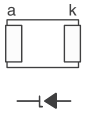

Fig. 6 — SOD-523

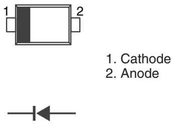

Fig. 7 — SOT-23

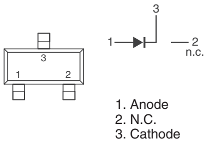

Fig. 8 — SOD-323

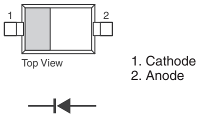

Fig. 9 — SOD-882

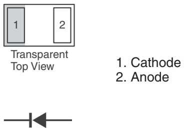

Fig. 10 — DO-41

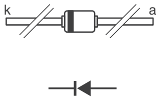

Fig.	Package	Zener Voltage Min.	Max.	Resistance Ω Max.	@ I_Z (mA)	Reverse Current I_R (µA) Max.	V_R (V)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	NXP Part No.
1	SOD-123F	2.2	2.6	85	5	50	1	568-3763-1-ND	.22	4.05	11.70	568-3763-2-ND	3,000	42.30/M	BZT52H-C2V4 T/R
		2.5	2.9	83	5	20	1	568-3764-1-ND	.22	4.05	11.70	568-3764-2-ND	3,000	42.30/M	BZT52H-C2V7 T/R
		2.8	3.2	95	5	10	1	568-3769-1-ND	.22	4.05	11.70	568-3769-2-ND	3,000	42.30/M	BZT52H-C3V0 T/R
		3.1	3.5	95	5	5	1	568-3770-1-ND	.22	4.05	11.70	568-3770-2-ND	3,000	42.30/M	BZT52H-C3V3 T/R
		3.4	3.8	95	5	5	1	568-3771-1-ND	.22	4.05	11.70	568-3771-2-ND	3,000	42.30/M	BZT52H-C3V6 T/R
		3.7	4.1	95	5	3	1	568-3772-1-ND	.22	4.05	11.70	568-3772-2-ND	3,000	42.30/M	BZT52H-C3V9 T/R
		4	4.6	95	5	3	1	568-3775-1-ND	.22	4.05	11.70	568-3775-2-ND	3,000	42.30/M	BZT52H-C4V3 T/R
		4.4	5	78	5	3	2	568-3776-1-ND	.22	4.05	11.70	568-3776-2-ND	3,000	42.30/M	BZT52H-C4V7 T/R
		4.8	5.4	60	5	2	2	568-3779-1-ND	.22	4.05	11.70	568-3779-2-ND	3,000	42.30/M	BZT52H-C5V1 T/R
		5.2	6	40	5	1	2	568-3780-1-ND	.22	4.05	11.70	568-3780-2-ND	3,000	42.30/M	BZT52H-C5V6 T/R
		5.8	6.6	10	5	3	4	568-3783-1-ND	.22	4.05	11.70	568-3783-2-ND	3,000	42.30/M	BZT52H-C6V2 T/R
		6.4	7.2	8	5	2	4	568-3784-1-ND	.22	4.05	11.70	568-3784-2-ND	3,000	42.30/M	BZT52H-C6V8 T/R
		7	7.9	10	5	1	5	568-3786-1-ND	.22	4.05	11.70	568-3786-2-ND	3,000	42.30/M	BZT52H-C7V5 T/R
		7.7	8.7	10	5	0.7	5	568-3787-1-ND	.22	4.05	11.70	568-3787-2-ND	3,000	42.30/M	BZT52H-C8V2 T/R
		8.5	9.6	10	5	0.5	6	568-3788-1-ND	.22	4.05	11.70	568-3788-2-ND	3,000	42.30/M	BZT52H-C9V1 T/R
		9.4	10.6	10	8	0.2	7	568-3752-1-ND	.22	4.05	11.70	568-3752-2-ND	3,000	42.30/M	BZT52H-C10 T/R
		10.4	11.6	10	5	0.1	8	568-3753-1-ND	.22	4.05	11.70	568-3753-2-ND	3,000	42.30/M	BZT52H-C11 T/R
		11.4	12.7	10	5	0.1	8	568-3754-1-ND	.22	4.05	11.70	568-3754-2-ND	3,000	42.30/M	BZT52H-C12 T/R
		12.4	14.1	10	5	0.1	8	568-3755-1-ND	.22	4.05	11.70	568-3755-2-ND	3,000	42.30/M	BZT52H-C13 T/R
		13.8	15.6	15	5	0.05	10.5	568-3756-1-ND	.22	4.05	11.70	568-3756-2-ND	3,000	42.30/M	BZT52H-C15 T/R
		15.3	17.1	20	5	0.05	11.2	568-3757-1-ND	.22	4.05	11.70	568-3757-2-ND	3,000	42.30/M	BZT52H-C16 T/R
		16.8	19.1	20	5	0.05	12.6	568-3758-1-ND	.22	4.05	11.70	568-3758-2-ND	3,000	42.30/M	BZT52H-C18 T/R
		18.8	21.2	20	5	0.05	14	568-3759-1-ND	.22	4.05	11.70	568-3759-2-ND	3,000	42.30/M	BZT52H-C20 T/R
		20.8	23.3	25	5	0.05	15.4	568-3760-1-ND	.22	4.05	11.70	568-3760-2-ND	3,000	42.30/M	BZT52H-C22 T/R
		22.8	25.6	30	5	0.05	16.8	568-3761-1-ND	.22	4.05	11.70	568-3761-2-ND	3,000	42.30/M	BZT52H-C24 T/R
		25.1	28.9	40	5	0.05	18.9	568-3762-1-ND	.22	4.05	11.70	568-3762-2-ND	3,000	42.30/M	BZT52H-C27 T/R
		28	32	40	5	0.05	21	568-3765-1-ND	.22	4.05	11.70	568-3765-2-ND	3,000	42.30/M	BZT52H-C30 T/R
		31	35	40	5	0.05	23.1	568-3766-1-ND	.22	4.05	11.70	568-3766-2-ND	3,000	42.30/M	BZT52H-C33 T/R
		34	38	60	5	0.05	25.2	568-3767-1-ND	.22	4.05	11.70	568-3767-2-ND	3,000	42.30/M	BZT52H-C36 T/R
		37	41	75	5	0.05	27.3	568-3768-1-ND	.22	4.05	11.70	568-3768-2-ND	3,000	42.30/M	BZT52H-C39 T/R
		40	46	80	5	0.05	30.1	568-3773-1-ND	.22	4.05	11.70	568-3773-2-ND	3,000	42.30/M	BZT52H-C43 T/R
		44	50	90	5	0.05	32.9	568-3774-1-ND	.22	4.05	11.70	568-3774-2-ND	3,000	42.30/M	BZT52H-C47 T/R
		48	54	100	5	0.05	35.7	568-3777-1-ND	.22	4.05	11.70	568-3777-2-ND	3,000	42.30/M	BZT52H-C51 T/R
		52	60	120	2	0.05	39.2	568-3778-1-ND	.22	4.05	11.70	568-3778-2-ND	3,000	42.30/M	BZT52H-C56 T/R
		58	66	140	2	0.05	43.4	568-3781-1-ND	.22	4.05	11.70	568-3781-2-ND	3,000	42.30/M	BZT52H-C62 T/R
		64	72	160	2	0.05	47.6	568-3782-1-ND	.22	4.05	11.70	568-3782-2-ND	3,000	42.30/M	BZT52H-C68 T/R
		70	79	175	2	0.05	52.5	568-3785-1-ND	.22	4.05	11.70	568-3785-2-ND	3,000	42.30/M	BZT52H-C75 T/R
2	SOT-89	11.4	12.7	25	5	0.1	8	568-3789-1-ND	.50	10.00	30.00	568-3789-2-ND	1,000	140.00	BZV49-C12 T/R
3	SOD-80C	3.4	3.8	90	5	5	1	568-3794-1-ND	.17	3.15	9.10	568-3794-2-ND	2,500	32.90/M	BZV55-C3V6 T/R
		3.7	4.1	90	5	3	1	568-3795-1-ND	.17	3.15	9.10	568-3795-2-ND	2,500	32.90/M	BZV55-C3V9 T/R
		5.2	6	40	5	1	2	568-3797-1-ND	.17	3.15	9.10	568-3797-2-ND	2,500	32.90/M	BZV55-C5V6 T/R
		9.8	10.2	20	5	0.2	7	568-3790-1-ND	.30	5.57	15.44	568-3790-2-ND	2,500	59.40/M	BZV55-B10 T/R
		14.7	15.3	30	5	0.05	0.7	568-3791-1-ND	.30	5.57	15.44	568-3791-2-ND	2,500	59.40/M	BZV55-B15 T/R
		34	38	90	2	0.8	25.2	568-3792-1-ND	.17	3.15	9.10	568-3792-2-ND	2,500	32.90/M	BZV55-C36 T/R
		37	41	130	2	0.7	27.3	568-3793-1-ND	.17	3.15	9.10	568-3793-2-ND	2,500	32.90/M	BZV55-C39 T/R
		44	50	170	2	0.05	32.9	568-3796-1-ND	.17	3.15	9.10	568-3796-2-ND	2,500	32.90/M	BZV55-C47 T/R
4	DO-35	4.4	5	80	5	3	2	568-1670-1-ND	.11	2.03	5.85	568-1670-2-ND	10,000	15.30/M	BZX79-C4V7 T/R
		4.8	5.4	60	5	2	2	568-1671-1-ND	.11	2.03	5.85	568-1671-2-ND	10,000	15.30/M	BZX79-C5V1 T/R
		5.2	6	40	5	1	2	568-3846-1-ND	.11	2.03	5.85	568-3846-4-ND◊	10,000	15.30/M	BZX79-C5V6 AMO
		7.7	8.7	15	5	0.7	5	568-1672-1-ND	.11	2.03	5.85	568-1672-2-ND	10,000	15.30/M	BZX79-C8V2 T/R
		11.4	12.7	25	5	0.1	8	568-3845-1-ND	.11	2.03	5.85	568-3845-4-ND◊	10,000	15.30/M	BZX79-C12 AMO
5	SOD-110	3.7	4.1	90	5	3	1	568-3803-1-ND	.39	7.88	21.60	568-3803-2-ND	3,000	102.00/M	BZX284-C3V9 T/R
		4.4	5	80	5	3	2	568-3804-1-ND	.39	7.88	21.60	568-3804-2-ND	3,000	102.00/M	BZX284-C4V7 T/R
		4.8	5.4	60	5	2	2	568-3805-1-ND	.39	7.88	21.60	568-3805-2-ND	3,000	102.00/M	BZX284-C5V1 T/R
		7	7.9	10	5	1	5	568-3806-1-ND	.39	7.88	21.60	568-3806-2-ND	3,000	102.00/M	BZX284-C7V5 T/R
		7.7	8.7	10	5	0.7	5	568-3807-1-ND	.39	7.88	21.60	568-3807-2-ND	3,000	102.00/M	BZX284-C8V2 T/R
		9.4	10.6	10	5	0.2	7	568-3799-1-ND	.39	7.88	21.60	568-3799-2-ND	3,000	102.00/M	BZX284-C10 T/R
		11.4	12.7	10	5	0.1	8	568-3800-1-ND	.39	7.88	21.60	568-3800-2-ND	3,000	102.00/M	BZX284-C12 T/R
		16.8	19.1	20	5	0.05	12.6	568-3801-1-ND	.39	7.88	21.60	568-3801-2-ND	3,000	102.00/M	BZX284-C18 T/R
		31	35	40	2	0.05	23.1	568-3802-1-ND	.39	7.88	21.60	568-3802-2-ND	3,000	102.00/M	BZX284-C33 T/R
6	SOD-523	15.2	16.8	40	5	0.05	11.2	568-1784-1-ND	.36	7.03	19.80	568-1784-2-ND	3,000	81.00/M	BZX585-C16 T/R
		17.1	18.9	45	5	0.05	12.6	568-1785-1-ND	.36	7.03	19.80	568-1785-2-ND	3,000	81.00/M	BZX585-C18 T/R

◊ Ammo Pack

(Continued)

		Zener Voltage		Resistance Ω		Reverse Current I_R (µA)		Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		NXP
Fig.	Package	Min.	Max.	Max.	@ I_Z (mA)	Max.	V_R (V)	Part No.	1	25	100	Part No.	Qty.	Pricing	Part No.
6	SOD-523	19	21	55	5	0.05	14	568-1786-1-ND	.36	7.03	19.80	568-1786-2-ND	3,000	81.00/M	BZX585-C20 T/R
		20.9	23.1	55	5	0.05	15.4	568-1787-1-ND	.36	7.03	19.80	568-1787-2-ND	3,000	81.00/M	BZX585-C22 T/R
		22.8	25.2	70	5	0.05	16.8	568-1788-1-ND	.36	7.03	19.80	568-1788-2-ND	3,000	81.00/M	BZX585-C24 T/R
		25.65	28.35	80	2	0.05	18.9	568-1789-1-ND	.36	7.03	19.80	568-1789-2-ND	3,000	81.00/M	BZX585-C27 T/R
		28.5	31.5	80	2	0.05	21	568-1790-1-ND	.36	7.03	19.80	568-1790-2-ND	3,000	81.00/M	BZX585-C30 T/R
		31.35	34.65	80	2	0.05	23.1	568-1791-1-ND	.36	7.03	19.80	568-1791-2-ND	3,000	81.00/M	BZX585-C33 T/R
		34.2	37.8	90	2	0.05	25.2	568-1792-1-ND	.36	7.03	19.80	568-1792-2-ND	3,000	81.00/M	BZX585-C36 T/R
		37.05	40.95	130	2	0.05	27.3	568-1793-1-ND	.36	7.03	19.80	568-1793-2-ND	3,000	81.00/M	BZX585-C39 T/R
		40.85	45.15	150	2	0.05	30.1	568-1794-1-ND	.36	7.03	19.80	568-1794-2-ND	3,000	81.00/M	BZX585-C43 T/R
		44.65	49.35	170	2	0.05	32.9	568-1795-1-ND	.36	7.03	19.80	568-1795-2-ND	3,000	81.00/M	BZX585-C47 T/R
		48.45	53.55	180	2	0.05	35.7	568-1796-1-ND	.36	7.03	19.80	568-1796-2-ND	3,000	81.00/M	BZX585-C51 T/R
		53.2	58.8	200	2	0.05	39.2	568-1797-1-ND	.36	7.03	19.80	568-1797-2-ND	3,000	81.00/M	BZX585-C56 T/R
		58.9	65.1	215	2	0.05	43.4	568-1798-1-ND	.36	7.03	19.80	568-1798-2-ND	3,000	81.00/M	BZX585-C62 T/R
		64.6	71.4	240	2	0.05	47.6	568-1799-1-ND	.36	7.03	19.80	568-1799-2-ND	3,000	81.00/M	BZX585-C68 T/R
		71.25	78.75	255	2	0.05	52.5	568-1800-1-ND	.36	7.03	19.80	568-1800-2-ND	3,000	81.00/M	BZX585-C75 T/R
7	SOT-23	3.1	3.5	95	5	5	1	568-1675-1-ND	.12	2.25	6.50	568-1675-2-ND	3,000	23.50/M	BZX84-C3V3 T/R
		4.4	5	80	5	3	2	568-1676-1-ND	.12	2.25	6.50	568-1676-2-ND	3,000	23.50/M	BZX84-C4V7 T/R
		4.8	5.4	60	5	2	2	568-1677-1-ND	.12	2.25	6.50	568-1677-2-ND	3,000	23.50/M	BZX84-C5V1 T/R
		5.2	6	40	5	1	2	568-1678-1-ND	.12	2.25	6.50	568-1678-2-ND	3,000	23.50/M	BZX84-C5V6 T/R
		5.8	6.6	10	5	3	4	568-1679-1-ND	.12	2.25	6.50	568-1679-2-ND	3,000	23.50/M	BZX84-C6V2 T/R
		6.4	7.2	15	5	2	4	568-1680-1-ND	.12	2.25	6.50	568-1680-2-ND	3,000	23.50/M	BZX84-C6V8 T/R
		9.4	10.6	20	5	0.2	7	568-1673-1-ND	.12	2.25	6.50	568-1673-2-ND	3,000	23.50/M	BZX84-C10 T/R
		11.4	12.7	25	5	0.1	8	568-1674-1-ND	.12	2.25	6.50	568-1674-2-ND	3,000	23.50/M	BZX84-C12 T/R
		16.8	19.1	45	5	0.05	12.6	568-4283-1-ND	.12	2.25	6.50	568-4283-2-ND	3,000	23.50/M	BZX84-C18 T/R
		40	46	150	2	0.05	30.1	568-3847-1-ND	.10	1.88	5.20	568-3847-2-ND	3,000	20.00/M	BZX84-C43 T/R
8	SOD-323	2.35	2.45	100	5	50	1	568-3819-1-ND	.35	6.56	18.20	568-3819-2-ND	3,000	70.00/M	BZX384-B2V4 T/R
		2.65	2.75	100	5	20	1	568-3820-1-ND	.35	6.56	18.20	568-3820-2-ND	3,000	70.00/M	BZX384-B2V7 T/R
		2.94	3.06	95	5	10	1	568-3825-1-ND	.35	6.56	18.20	568-3825-2-ND	3,000	70.00/M	BZX384-B3V0 T/R
		3.23	3.37	95	5	5	1	568-3826-1-ND	.35	6.56	18.20	568-3826-2-ND	3,000	70.00/M	BZX384-B3V3 T/R
		3.53	3.67	90	5	5	1	568-3827-1-ND	.35	6.56	18.20	568-3827-2-ND	3,000	70.00/M	BZX384-B3V6 T/R
		3.82	3.98	90	5	3	1	568-3828-1-ND	.35	6.56	18.20	568-3828-2-ND	3,000	70.00/M	BZX384-B3V9 T/R
		4.21	4.39	90	5	3	1	568-3831-1-ND	.35	6.56	18.20	568-3831-2-ND	3,000	70.00/M	BZX384-B4V3 T/R
		4.61	4.79	80	5	3	2	568-3832-1-ND	.35	6.56	18.20	568-3832-2-ND	3,000	70.00/M	BZX384-B4V7 T/R
		5	5.2	60	2	2	2	568-3835-1-ND	.35	6.56	18.20	568-3835-2-ND	3,000	70.00/M	BZX384-B5V1 T/R
		5.49	5.71	40	5	1	2	568-3836-1-ND	.35	6.56	18.20	568-3836-2-ND	3,000	70.00/M	BZX384-B5V6 T/R
		6.08	6.32	10	5	3	4	568-3839-1-ND	.35	6.56	18.20	568-3839-2-ND	3,000	70.00/M	BZX384-B6V2 T/R
		6.66	6.94	15	5	2	4	568-3840-1-ND	.35	6.56	18.20	568-3840-2-ND	3,000	70.00/M	BZX384-B6V8 T/R
		7.35	7.65	15	5	1	5	568-3842-1-ND	.35	6.56	18.20	568-3842-2-ND	3,000	70.00/M	BZX384-B7V5 T/R
		8.04	8.36	15	5	0.7	5	568-3843-1-ND	.35	6.56	18.20	568-3843-2-ND	3,000	70.00/M	BZX384-B8V2 T/R
		8.92	9.28	15	5	0.5	6	568-3844-1-ND	.35	6.56	18.20	568-3844-2-ND	3,000	70.00/M	BZX384-B9V1 T/R
		9.8	10.2	20	5	0.2	7	568-3808-1-ND	.35	6.56	18.20	568-3808-2-ND	3,000	70.00/M	BZX384-B10 T/R
		10.8	11.2	20	5	0.1	8	568-3809-1-ND	.35	6.56	18.20	568-3809-2-ND	3,000	70.00/M	BZX384-B11 T/R
		10.4	11.6	20	5	0.1	8	568-1783-1-ND	.32	5.91	16.38	568-1783-2-ND	3,000	63.00/M	BZX384-C11 T/R
		11.8	12.2	25	5	0.1	8	568-3810-1-ND	.35	6.56	18.20	568-3810-2-ND	3,000	70.00/M	BZX384-B12 T/R
		12.7	13.3	30	5	0.1	8	568-3811-1-ND	.35	6.56	18.20	568-3811-2-ND	3,000	70.00/M	BZX384-B13 T/R
		14.7	15.3	30	5	0.05	10.5	568-3812-1-ND	.35	6.56	18.20	568-3812-2-ND	3,000	70.00/M	BZX384-B15 T/R
		15.7	16.3	40	5	0.05	11.2	568-3813-1-ND	.35	6.56	18.20	568-3813-2-ND	3,000	70.00/M	BZX384-B16 T/R
		17.6	18.4	45	5	0.05	12.6	568-3814-1-ND	.35	6.56	18.20	568-3814-2-ND	3,000	70.00/M	BZX384-B18 T/R
		19.6	20.4	55	5	0.05	14	568-3815-1-ND	.35	6.56	18.20	568-3815-2-ND	3,000	70.00/M	BZX384-B20 T/R
		21.6	22.4	55	5	0.05	15.4	568-3816-1-ND	.35	6.56	18.20	568-3816-2-ND	3,000	70.00/M	BZX384-B22 T/R
		23.5	24.5	70	5	0.05	16.8	568-3817-1-ND	.35	6.56	18.20	568-3817-2-ND	3,000	70.00/M	BZX384-B24 T/R
		26.5	27.5	80	2	0.05	18.9	568-3818-1-ND	.35	6.56	18.20	568-3818-2-ND	3,000	70.00/M	BZX384-B27 T/R
		29.4	30.6	80	2	0.05	21	568-3821-1-ND	.35	6.56	18.20	568-3821-2-ND	3,000	70.00/M	BZX384-B30 T/R
		32.3	33.7	80	2	0.05	23.1	568-3822-1-ND	.35	6.56	18.20	568-3822-2-ND	3,000	70.00/M	BZX384-B33 T/R
		35.3	36.7	90	2	0.05	25.2	568-3823-1-ND	.35	6.56	18.20	568-3823-2-ND	3,000	70.00/M	BZX384-B36 T/R
		38.2	39.8	130	2	0.05	27.3	568-3824-1-ND	.35	6.56	18.20	568-3824-2-ND	3,000	70.00/M	BZX384-B39 T/R
		42.1	43.9	150	2	0.05	30.1	568-3829-1-ND	.35	6.56	18.20	568-3829-2-ND	3,000	70.00/M	BZX384-B43 T/R
		46.1	47.9	170	2	0.05	32.9	568-3830-1-ND	.35	6.56	18.20	568-3830-2-ND	3,000	70.00/M	BZX384-B47 T/R
		50	52	180	2	0.05	35.7	568-3833-1-ND	.35	6.56	18.20	568-3833-2-ND	3,000	70.00/M	BZX384-B51 T/R
		54.9	57.1	200	2	0.05	39.2	568-3834-1-ND	.35	6.56	18.20	568-3834-2-ND	3,000	70.00/M	BZX384-B56 T/R
		60.8	63.2	215	2	0.05	43.4	568-3837-1-ND	.35	6.56	18.20	568-3837-2-ND	3,000	70.00/M	BZX384-B62 T/R
		66.6	69.4	240	2	0.05	47.6	568-3838-1-ND	.35	6.56	18.20	568-3838-2-ND	3,000	70.00/M	BZX384-B68 T/R
		73.5	76.5	255	2	0.05	52.5	568-3841-1-ND	.35	6.56	18.20	568-3841-2-ND	3,000	70.00/M	BZX384-B75 T/R
		5.48	5.73	50	5	1	2.5	568-3848-1-ND	.30	5.63	15.60	568-3848-2-ND	3,000	60.00/M	PDZ5.6B T/R
8	SOD-323F	2.3	2.6	100	5	50	1	568-3878-1-ND	.39	7.31	20.28	568-3878-2-ND	3,000	78.00/M	PZU2.4B T/R
		2.5	2.9	100	5	20	1	568-3879-1-ND	.39	7.31	20.28	568-3879-2-ND	3,000	78.00/M	PZU2.7B T/R
		2.5	2.75	100	5	20	1	568-3880-1-ND	.36	7.03	19.80	568-3880-2-ND	3,000	81.00/M	PZU2.7B1 T/R
		2.65	2.9	100	5	20	1	568-3881-1-ND	.36	7.03	19.80	568-3881-2-ND	3,000	81.00/M	PZU2.7B2 T/R
		2.8	3.2	95	5	10	1	568-3895-1-ND	.39	7.31	20.28	568-3895-2-ND	3,000	78.00/M	PZU3.0B T/R
		2.8	3.05	95	5	10	1	568-3896-1-ND	.36	7.03	19.80	568-3896-2-ND	3,000	81.00/M	PZU3.0B1 T/R
		2.95	3.2	95	5	10	1	568-3897-1-ND	.36	7.03	19.80	568-3897-2-ND	3,000	81.00/M	PZU3.0B2 T/R
		3.1	3.5	95	5	5	1	568-3898-1-ND	.39	7.31	20.28	568-3898-2-ND	3,000	78.00/M	PZU3.3B T/R
		3.1	3.35	95	5	5	1	568-3899-1-ND	.36	7.03	19.80	568-3899-2-ND	3,000	81.00/M	PZU3.3B1 T/R
		3.25	3.5	95	5	5	1	568-3900-1-ND	.36	7.03	19.80	568-3900-2-ND	3,000	81.00/M	PZU3.3B2 T/R
		3.4	3.8	90	5	5	1	568-3901-1-ND	.39	7.31	20.28	568-3901-2-ND	3,000	78.00/M	PZU3.6B T/R
		3.4	3.65	90	5	5	1	568-3902-1-ND	.36	7.03	19.80	568-3902-2-ND	3,000	81.00/M	PZU3.6B1 T/R
		3.55	3.8	90	5	5	1	568-3903-1-ND	.36	7.03	19.80	568-3903-2-ND	3,000	81.00/M	PZU3.6B2 T/R
		3.7	4.1	90	5	3	1	568-3904-1-ND	.39	7.31	20.28	568-3904-2-ND	3,000	78.00/M	PZU3.9B T/R
		3.7	3.97	90	5	3	1	568-3905-1-ND	.36	7.03	19.80	568-3905-2-ND	3,000	81.00/M	PZU3.9B1 T/R
		3.87	4.1	90	5	3	1	568-3906-1-ND	.36	7.03	19.80	568-3906-2-ND	3,000	81.00/M	PZU3.9B2 T/R
		4.01	4.48	90	5	3	1	568-3910-1-ND	.39	7.31	20.28	568-3910-2-ND	3,000	78.00/M	PZU4.3B T/R
		4.01	4.21	90	5	3	1	568-3911-1-ND	.36	7.03	19.80	568-3911-2-ND	3,000	81.00/M	PZU4.3B1 T/R
		4.15	4.34	90	5	3	1	568-3912-1-ND	.36	7.03	19.80	568-3912-2-ND	3,000	81.00/M	PZU4.3B2 T/R
		4.28	4.48	90	5	3	1	568-3913-1-ND	.36	7.03	19.80	568-3913-2-ND	3,000	81.00/M	PZU4.3B3 T/R
		4.42	4.9	80	5	2	1	568-3914-1-ND	.39	7.31	20.28	568-3914-2-ND	3,000	78.00/M	PZU4.7B T/R
		4.42	4.61	80	5	2	1	568-3915-1-ND	.36	7.03	19.80	568-3915-2-ND	3,000	81.00/M	PZU4.7B1 T/R
		4.55	4.75	80	5	2	1	568-3916-1-ND	.36	7.03	19.80	568-3916-2-ND	3,000	81.00/M	PZU4.7B2 T/R
		4.69	4.9	80	5	2	1	568-3917-1-ND	.36	7.03	19.80	568-3917-2-ND	3,000	81.00/M	PZU4.7B3 T/R
		4.84	5.37	60	5	2	1.5	568-3918-1-ND	.39	7.31	20.28	568-3918-2-ND	3,000	78.00/M	PZU5.1B T/R
		4.84	5.04	60	5	2	1.5	568-3919-1-ND	.36	7.03	19.80	568-3919-2-ND	3,000	81.00/M	PZU5.1B1 T/R
		4.98	5.2	60	5	2	1.5	568-3920-1-ND	.36	7.03	19.80	568-3920-2-ND	3,000	81.00/M	PZU5.1B2 T/R

◊ Ammo Pack

(Continued)

Fig.	Package	Zener Voltage Min.	Zener Voltage Max.	Resistance Ω Max.	@ I_Z (mA)	Reverse Current I_R (µA) Max.	V_R (V)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	NXP Part No.
8	SOD-323F	5.14	5.37	60	5	2	1.5	568-3921-1-ND	.36	7.03	19.80	568-3921-2-ND	3,000	81.00/M	PZU5.1B3 T/R
		5.31	5.92	40	5	1	2.5	568-3922-1-ND	.39	7.31	20.28	568-3922-2-ND	3,000	78.00/M	PZU5.6B T/R
		5.31	5.55	40	5	1	2.5	568-3923-1-ND	.36	7.03	19.80	568-3923-2-ND	3,000	81.00/M	PZU5.6B1 T/R
		5.49	5.73	40	5	1	2.5	568-3924-1-ND	.36	7.03	19.80	568-3924-2-ND	3,000	81.00/M	PZU5.6B2 T/R
		5.67	5.92	40	5	1	2.5	568-3925-1-ND	.36	7.03	19.80	568-3925-2-ND	3,000	81.00/M	PZU5.6B3 T/R
		5.86	6.53	30	5	0.5	3	568-3926-1-ND	.39	7.31	20.28	568-3926-2-ND	3,000	78.00/M	PZU6.2B T/R
		5.86	6.12	30	5	0.5	3	568-3927-1-ND	.36	7.03	19.80	568-3927-2-ND	3,000	81.00/M	PZU6.2B1 T/R
		6.06	6.33	30	5	0.5	3	568-3928-1-ND	.36	7.03	19.80	568-3928-2-ND	3,000	81.00/M	PZU6.2B2 T/R
		6.26	6.53	30	5	0.5	3	568-3929-1-ND	.36	7.03	19.80	568-3929-2-ND	3,000	81.00/M	PZU6.2B3 T/R
		6.47	7.14	20	5	0.5	3.5	568-3930-1-ND	.39	7.31	20.28	568-3930-2-ND	3,000	78.00/M	PZU6.8B T/R
		6.47	6.73	20	5	0.5	3.5	568-3931-1-ND	.36	7.03	19.80	568-3931-2-ND	3,000	81.00/M	PZU6.8B1 T/R
		6.65	6.93	20	5	0.5	3.5	568-3932-1-ND	.36	7.03	19.80	568-3932-2-ND	3,000	81.00/M	PZU6.8B2 T/R
		6.86	7.14	20	5	0.5	3.5	568-3933-1-ND	.36	7.03	19.80	568-3933-2-ND	3,000	81.00/M	PZU6.8B3 T/R
		7.06	7.84	10	5	0.5	4	568-3934-1-ND	.39	7.31	20.28	568-3934-2-ND	3,000	78.00/M	PZU7.5B T/R
		7.06	7.36	10	5	0.5	4	568-3935-1-ND	.36	7.03	19.80	568-3935-2-ND	3,000	81.00/M	PZU7.5B1 T/R
		7.28	7.6	10	5	0.5	4	568-3936-1-ND	.36	7.03	19.80	568-3936-2-ND	3,000	81.00/M	PZU7.5B2 T/R
		7.52	7.84	10	5	0.5	4	568-3937-1-ND	.36	7.03	19.80	568-3937-2-ND	3,000	81.00/M	PZU7.5B3 T/R
		7.76	8.64	10	5	0.5	5	568-3938-1-ND	.39	7.31	20.28	568-3938-2-ND	3,000	78.00/M	PZU8.2B T/R
		7.76	8.1	10	5	0.5	5	568-3939-1-ND	.36	7.03	19.80	568-3939-2-ND	3,000	81.00/M	PZU8.2B1 T/R
		8.02	8.36	10	5	0.5	5	568-3940-1-ND	.36	7.03	19.80	568-3940-2-ND	3,000	81.00/M	PZU8.2B2 T/R
		8.28	8.64	10	5	0.5	5	568-3941-1-ND	.36	7.03	19.80	568-3941-2-ND	3,000	81.00/M	PZU8.2B3 T/R
		8.56	9.55	10	5	0.5	6	568-3942-1-ND	.39	7.31	20.28	568-3942-2-ND	3,000	78.00/M	PZU9.1B T/R
		8.56	8.93	10	5	0.5	6	568-3943-1-ND	.36	7.03	19.80	568-3943-2-ND	3,000	81.00/M	PZU9.1B1 T/R
		8.85	9.23	10	5	0.5	6	568-3944-1-ND	.36	7.03	19.80	568-3944-2-ND	3,000	81.00/M	PZU9.1B2 T/R
		9.15	9.55	10	5	0.5	6	568-3945-1-ND	.36	7.03	19.80	568-3945-2-ND	3,000	81.00/M	PZU9.1B3 T/R
		9.45	10.55	10	5	0.1	7	568-3849-1-ND	.39	7.31	20.28	568-3849-2-ND	3,000	78.00/M	PZU10B T/R
		9.45	9.87	10	5	0.1	7	568-3850-1-ND	.36	7.03	19.80	568-3850-2-ND	3,000	81.00/M	PZU10B1 T/R
		9.77	10.21	10	5	0.1	7	568-3851-1-ND	.36	7.03	19.80	568-3851-2-ND	3,000	81.00/M	PZU10B2 T/R
		10.11	10.55	10	5	0.1	7	568-3852-1-ND	.36	7.03	19.80	568-3852-2-ND	3,000	81.00/M	PZU10B3 T/R
		10.44	11.56	10	5	0.1	8	568-3853-1-ND	.39	7.31	20.28	568-3853-2-ND	3,000	78.00/M	PZU11B T/R
		10.44	10.88	10	5	0.1	8	568-3854-1-ND	.36	7.03	19.80	568-3854-2-ND	3,000	81.00/M	PZU11B1 T/R
		10.76	11.22	10	5	0.1	8	568-3855-1-ND	.36	7.03	19.80	568-3855-2-ND	3,000	81.00/M	PZU11B2 T/R
		11.1	11.56	10	5	0.1	8	568-3856-1-ND	.36	7.03	19.80	568-3856-2-ND	3,000	81.00/M	PZU11B3 T/R
		11.42	12.6	10	5	0.1	9	568-3857-1-ND	.39	7.31	20.28	568-3857-2-ND	3,000	78.00/M	PZU12B T/R
		11.42	11.9	10	5	0.1	9	568-3858-1-ND	.36	7.03	19.80	568-3858-2-ND	3,000	81.00/M	PZU12B1 T/R
		11.74	12.24	10	5	0.1	9	568-3859-1-ND	.36	7.03	19.80	568-3859-2-ND	3,000	81.00/M	PZU12B2 T/R
		12.08	12.6	10	5	0.1	9	568-3860-1-ND	.36	7.03	19.80	568-3860-2-ND	3,000	81.00/M	PZU12B3 T/R
		12.47	13.96	10	5	0.1	10	568-3861-1-ND	.39	7.31	20.28	568-3861-2-ND	3,000	78.00/M	PZU13B T/R
		12.47	13.03	10	5	0.1	10	568-3862-1-ND	.36	7.03	19.80	568-3862-2-ND	3,000	81.00/M	PZU13B1 T/R
		12.91	13.49	10	5	0.1	10	568-3863-1-ND	.36	7.03	19.80	568-3863-2-ND	3,000	81.00/M	PZU13B2 T/R
		13.37	13.96	10	5	0.1	10	568-3864-1-ND	.36	7.03	19.80	568-3864-2-ND	3,000	81.00/M	PZU13B3 T/R
		13.7	14.3	10	5	0.1	11	568-3865-1-ND	.36	7.03	19.80	568-3865-2-ND	3,000	81.00/M	PZU14B2 T/R
		13.84	15.52	15	5	0.05	11	568-3866-1-ND	.39	7.31	20.28	568-3866-2-ND	3,000	78.00/M	PZU15B T/R
		13.84	14.46	15	5	0.05	11	568-3867-1-ND	.36	7.03	19.80	568-3867-2-ND	3,000	81.00/M	PZU15B1 T/R
		14.34	14.98	15	5	0.05	11	568-3868-1-ND	.36	7.03	19.80	568-3868-2-ND	3,000	81.00/M	PZU15B2 T/R
		14.85	15.52	15	5	0.05	11	568-3869-1-ND	.36	7.03	19.80	568-3869-2-ND	3,000	81.00/M	PZU15B3 T/R
		15.37	17.09	20	5	0.05	12	568-3870-1-ND	.39	7.31	20.28	568-3870-2-ND	3,000	78.00/M	PZU16B T/R
		15.37	16.01	20	5	0.05	12	568-3871-1-ND	.36	7.03	19.80	568-3871-2-ND	3,000	81.00/M	PZU16B1 T/R
		15.85	16.51	20	5	0.05	12	568-3872-1-ND	.36	7.03	19.80	568-3872-2-ND	3,000	81.00/M	PZU16B2 T/R
		16.35	17.09	20	5	0.05	12	568-3873-1-ND	.36	7.03	19.80	568-3873-2-ND	3,000	81.00/M	PZU16B3 T/R
		16.94	19.03	20	5	0.05	13	568-3874-1-ND	.39	7.31	20.28	568-3874-2-ND	3,000	78.00/M	PZU18B T/R
		16.94	17.7	20	5	0.05	13	568-3875-1-ND	.36	7.03	19.80	568-3875-2-ND	3,000	81.00/M	PZU18B1 T/R
		17.56	18.35	20	5	0.05	13	568-3876-1-ND	.36	7.03	19.80	568-3876-2-ND	3,000	81.00/M	PZU18B2 T/R
		18.21	19.03	20	5	0.05	13	568-3877-1-ND	.36	7.03	19.80	568-3877-2-ND	3,000	81.00/M	PZU18B3 T/R
		18.86	21.08	20	5	0.05	15	568-3882-1-ND	.39	7.31	20.28	568-3882-2-ND	3,000	78.00/M	PZU20B T/R
		18.86	19.7	20	5	0.05	15	568-3883-1-ND	.36	7.03	19.80	568-3883-2-ND	3,000	81.00/M	PZU20B1 T/R
		19.52	20.39	20	5	0.05	15	568-3884-1-ND	.36	7.03	19.80	568-3884-2-ND	3,000	81.00/M	PZU20B2 T/R
		20.21	21.08	20	5	0.05	15	568-3885-1-ND	.36	7.03	19.80	568-3885-2-ND	3,000	81.00/M	PZU20B3 T/R
		20.88	23.17	25	5	0.05	17	568-3886-1-ND	.39	7.31	20.28	568-3886-2-ND	3,000	78.00/M	PZU22B T/R
		20.88	21.77	25	5	0.05	17	568-3887-1-ND	.36	7.03	19.80	568-3887-2-ND	3,000	81.00/M	PZU22B1 T/R
		21.54	22.47	25	5	0.05	17	568-3888-1-ND	.36	7.03	19.80	568-3888-2-ND	3,000	81.00/M	PZU22B2 T/R
		22.23	23.17	25	5	0.05	17	568-3889-1-ND	.36	7.03	19.80	568-3889-2-ND	3,000	81.00/M	PZU22B3 T/R
		22.93	25.57	30	5	0.05	19	568-3890-1-ND	.39	7.31	20.28	568-3890-2-ND	3,000	78.00/M	PZU24B T/R
		22.93	23.96	30	5	0.05	19	568-3891-1-ND	.36	7.03	19.80	568-3891-2-ND	3,000	81.00/M	PZU24B1 T/R
		23.72	24.78	30	5	0.05	19	568-3892-1-ND	.36	7.03	19.80	568-3892-2-ND	3,000	81.00/M	PZU24B2 T/R
		24.54	25.57	30	5	0.05	19	568-3893-1-ND	.36	7.03	19.80	568-3893-2-ND	3,000	81.00/M	PZU24B3 T/R
		25.1	28.9	40	5	0.05	21	568-3894-1-ND	.39	7.31	20.28	568-3894-2-ND	3,000	78.00/M	PZU27B T/R
		28	32	40	5	0.05	23	568-3907-1-ND	.39	7.31	20.28	568-3907-2-ND	3,000	78.00/M	PZU30B T/R
		31	35	40	5	0.05	25	568-3908-1-ND	.39	7.31	20.28	568-3908-2-ND	3,000	78.00/M	PZU33B T/R
		34	38	60	5	0.05	27	568-3909-1-ND	.39	7.31	20.28	568-3909-2-ND	3,000	78.00/M	PZU36B T/R
9	SOD-882	15.2	16.8	40	5	0.05	11.2	568-1801-1-ND	.41	7.97	22.44	568-1801-2-ND	10,000	79.05/M	BZX884-C16 T/R
		17.1	18.9	45	5	0.05	12.6	568-1802-1-ND	.41	7.97	22.44	568-1802-2-ND	10,000	79.05/M	BZX884-C18 T/R
		19	21	55	5	0.05	14	568-1803-1-ND	.41	7.97	22.44	568-1803-2-ND	10,000	79.05/M	BZX884-C20 T/R
		20.9	23.1	55	5	0.05	15.4	568-1804-1-ND	.41	7.97	22.44	568-1804-2-ND	10,000	79.05/M	BZX884-C22 T/R
		22.8	25.2	70	5	0.05	16.8	568-1805-1-ND	.41	7.97	22.44	568-1805-2-ND	10,000	79.05/M	BZX884-C24 T/R
		25.65	28.35	80	2	0.05	18.9	568-1806-1-ND	.41	7.97	22.44	568-1806-2-ND	10,000	79.05/M	BZX884-C27 T/R
		28.5	31.5	80	2	0.05	21	568-1807-1-ND	.41	7.97	22.44	568-1807-2-ND	10,000	79.05/M	BZX884-C30 T/R
		31.35	34.65	80	2	0.05	23.1	568-1808-1-ND	.41	7.97	22.44	568-1808-2-ND	10,000	79.05/M	BZX884-C33 T/R
		34.2	37.8	90	2	0.05	25.2	568-1809-1-ND	.41	7.97	22.44	568-1809-2-ND	10,000	79.05/M	BZX884-C36 T/R
		37.05	40.95	130	2	0.05	27.3	568-1810-1-ND	.41	7.97	22.44	568-1810-2-ND	10,000	79.05/M	BZX884-C39 T/R
		40.85	.45.15	150	2	0.05	30.1	568-1811-1-ND	.41	7.97	22.44	568-1811-2-ND	10,000	79.05/M	BZX884-C43 T/R
		44.65	49.35	170	2	0.05	32.9	568-1812-1-ND	.41	7.97	22.44	568-1812-2-ND	10,000	79.05/M	BZX884-C47 T/R
		48.45	53.55	180	2	0.05	35.7	568-1813-1-ND	.41	7.97	22.44	568-1813-2-ND	10,000	79.05/M	BZX884-C51 T/R
		53.2	58.8	200	2	0.05	39.2	568-1814-1-ND	.41	7.97	22.44	568-1814-2-ND	10,000	79.05/M	BZX884-C56 T/R
		58.9	65.1	215	2	0.05	43.4	568-1815-1-ND	.41	7.97	22.44	568-1815-2-ND	10,000	79.05/M	BZX884-C62 T/R
		64.6	71.4	240	2	0.05	47.6	568-1816-1-ND	.41	7.97	22.44	568-1816-2-ND	10,000	79.05/M	BZX884-C68 T/R
		71.25	78.75	255	2	0.05	52.5	568-1817-1-ND	.41	7.97	22.44	568-1817-2-ND	10,000	79.05/M	BZX884-C75 T/R
10	DO-41	11.4	12.7	10	20	0.2	8.4	568-3798-1-ND	.36	6.75	18.72	568-3798-2-ND	5,000	64.80/M	BZV85-C12 T/R
		4.8	5.4	550	1	10	1	568-1362-1-ND	.15	2.81	8.13	568-1362-2-ND	5,000	25.00/M	1N4733A T/R
		11.4	12.7	700	0.25	5	9.1	568-1363-1-ND	.15	2.81	8.13	568-1363-2-ND	5,000	25.00/M	1N4742A T/R
		13.8	15.6	700	0.25	5	11.4	568-1364-1-ND	.15	2.81	8.13	568-1634-2-ND	3,000	42.30/M	1N4744A T/R

◊ Ammo Pack

Triacs

Fig. 1 — TO-220AB

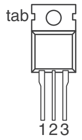

1. Main Terminal 1
2. Main Terminal 2
3. Gate
Tab - Main Terminal 2

Fig. 2 — TO-220F

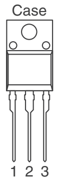

1: Main Terminal 1
2: Main Terminal 2
3: Gate
Case: Isolated

Fig. 3 — TO-92

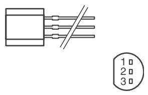

A

1. Main Terminal 2
2. Gate
3. Main Terminal 1

B

1. Main Terminal 1
2. Gate
3. Main Terminal 2

Fig. 4 — SOT-223

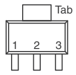

1. Main Terminal 1
2. Main Terminal 2
3. Gate
Tab - Main Terminal 2

Fig. 5 — D2PAK

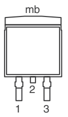

1. Main Terminal 1
2. Main Terminal 2
3. Gate
MB- Main Terminal 2

Fig. 6 — DPAK

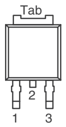

1. Main Terminal 1
2. Main Terminal 2
3. Gate
Tab - Main Terminal 2

Fig.	Package	V_{DRM} (V)	I_T (RMS) (A)	I_{GT} (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		NXP Part No.
						1	25	100		Qty.	Pricing	
1	TO-220AB	600	4	70	568-3650-5-ND†	.70	13.13	39.38	—	—	—	BT136-600
		600	4	10	568-3651-5-ND†	.59	11.03	33.08	—	—	—	BT136-600D
		600	8	70	568-3656-5-ND†	.85	17.72	56.70	—	—	—	BT137-600
		600	8	10	568-3657-5-ND†	.85	17.72	56.70	—	—	—	BT137-600D
		600	8	25	568-3658-5-ND†	.85	17.72	56.70	—	—	—	BT137-600E
		800	8	70	568-3659-5-ND†	.88	16.50	49.50	—	—	—	BT137-800
		600	12	70	568-3663-5-ND†	1.01	21.00	67.20	—	—	—	BT138-600
		600	16	70	568-3665-5-ND†	1.04	21.56	69.00	—	—	—	BT139-600
		600	16	25	568-3666-5-ND†	1.04	21.56	69.00	—	—	—	BT139-600E
		800	16	70	568-3667-5-ND†	1.01	21.00	67.20	—	—	—	BT139-800
		600	25	70	568-3685-5-ND†	1.25	26.13	83.60	—	—	—	BTA140-600
		800	25	70	568-3686-5-ND†	1.20	24.94	79.80	—	—	—	BTA140-800
		600	4	50	568-3692-5-ND†	.94	17.63	52.90	—	—	—	BTA204-600B
		600	4	35	568-3693-5-ND†	.94	17.69	53.06	—	—	—	BTA204-600C
		600	4	25	568-3694-5-ND†	.99	18.52	55.55	—	—	—	BTA204-600F
		800	4	10	568-3695-5-ND†	.99	18.52	55.55	—	—	—	BTA204-800E
		600	8	50	568-3708-5-ND†	1.04	21.58	69.06	—	—	—	BTA208-600B
		600	8	5	568-3709-5-ND†	1.07	22.23	71.12	—	—	—	BTA208-600D
		600	8	10	568-3710-5-ND†	1.05	21.92	70.14	—	—	—	BTA208-600E
		600	8	25	568-3711-5-ND†	1.05	21.92	70.14	—	—	—	BTA208-600F
		600	12	5	568-3722-5-ND†	1.45	30.30	96.96	—	—	—	BTA212-600D
		600	12	10	568-3723-5-ND†	1.45	30.30	96.96	—	—	—	BTA212-600E
		600	12	25	568-3724-5-ND†	1.46	30.39	97.26	—	—	—	BTA212-600F
		600	16	50	568-3733-5-ND†	1.84	36.84	110.52	—	—	—	BTA216-600BT
		600	16	5	568-1779-ND†	1.44	28.78	86.34	—	—	—	BTA216-600D
		600	16	10	568-3734-5-ND†	1.44	28.78	86.34	—	—	—	BTA216-600E
		600	16	25	568-3735-5-ND†	1.44	28.78	86.34	—	—	—	BTA216-600F
2	TO-220F	600	8	70	568-3662-ND†	.83	17.25	55.20	—	—	—	BT137X-600
		600	12	70	568-3664-ND†	.85	17.72	56.70	—	—	—	BT138X-600
		800	16	35	568-3669-ND†	1.09	22.64	72.46	—	—	—	BT139X-800
		600	4	50	568-3703-ND†	1.26	26.32	84.22	—	—	—	BTA204X-600B
		600	4	35	568-3704-ND†	1.27	26.36	84.36	—	—	—	BTA204X-600C
		600	4	25	568-3705-ND†	1.25	26.11	83.54	—	—	—	BTA204X-600F
		800	4	35	568-3706-ND†	1.27	26.36	84.36	—	—	—	BTA204X-800C
		800	4	10	568-3707-ND†	1.25	26.11	83.54	—	—	—	BTA204X-800E
		600	8	5	568-3717-ND†	1.21	25.22	80.70	—	—	—	BTA208X-600D
		600	8	10	568-3718-ND†	1.20	24.91	79.70	—	—	—	BTA208X-600E
		600	8	25	568-3719-ND†	1.20	24.91	79.70	—	—	—	BTA208X-600F
		800	8	10	568-3720-ND†	1.20	24.91	79.70	—	—	—	BTA208X-800E
		800	8	25	568-3721-ND†	1.20	24.91	79.70	—	—	—	BTA208X-800F
		1000	8	35	568-2371-5-ND†	1.28	26.64	85.26	—	—	—	BTA208X-1000B
		1000	8	5	568-3716-ND†	1.25	25.00	75.00	—	—	—	BTA208X-1000C
		600	12	5	568-3729-ND†	1.47	30.64	98.06	—	—	—	BTA212X-600D
		600	12	10	568-3730-ND†	1.47	30.64	98.06	—	—	—	BTA212X-600E
		800	12	50	568-3731-ND†	1.36	28.23	90.34	—	—	—	BTA212X-800B
		800	12	10	568-3732-ND†	1.47	30.64	98.06	—	—	—	BTA212X-800E
		600	16	5	568-3741-5-ND†	1.43	28.69	86.06	—	—	—	BTA216X-600D
		600	16	10	568-3742-5-ND†	1.43	28.69	86.06	—	—	—	BTA216X-600E
		600	16	25	568-3743-5-ND†	1.43	28.69	86.06	—	—	—	BTA216X-600F
3A	TO-92	600	1	5	568-1770-ND†	.49	9.98	27.36	—	—	—	BT131-600D
		600	1	10	568-1771-ND†	.49	9.98	27.36	—	—	—	BT131-600E
		800	1	5	568-1772-ND†	.49	9.98	27.36	—	—	—	BT131-800D
		800	1	10	568-1773-ND†	.49	9.98	27.36	—	—	—	BT131-800E
		600	1	50	568-3687-ND†	.82	17.11	54.74	—	—	—	BTA201-600B
		600	1	10	568-3688-ND†	.82	17.11	54.74	—	—	—	BTA201-600E
		800	1	50	568-3689-ND†	.82	17.11	54.74	—	—	—	BTA201-800B
		800	1	10	568-3690-ND†	.76	15.79	50.52	—	—	—	BTA201-800E
3B	TO-92	800	1	10	568-3691-ND†	.82	17.11	54.74	—	—	—	BTA201-800ER
3A	TO-92	400	0.6	7	568-3744-ND†	.32	6.25	17.60	—	—	—	MAC97A6
		600	0.6	7	568-3745-ND†	.39	7.66	21.56	—	—	—	MAC97A8
		600	1	3	568-3746-ND†	.46	9.19	25.20	—	—	—	Z0103MA
		800	1	3	568-3747-ND†	.76	15.36	42.12	—	—	—	Z0103NA
		600	1	5	568-3748-ND†	.36	7.35	20.16	—	—	—	Z0107MA
		800	1	5	568-3749-ND†	.36	7.35	20.16	—	—	—	Z0107NA
		600	1	10	568-3750-ND†	.48	9.50	28.50	—	—	—	Z0109MA
		800	1	10	568-3751-ND†	.48	9.50	28.50	—	—	—	Z0109NA
4	SOT-223	600	1	35	568-1774-1-ND	.58	11.55	34.65	568-1774-2-ND	4,000	155.93/M	BT134W-600 /T3
		600	1	10	568-3649-1-ND	.55	11.03	33.09	568-3649-2-ND	1,000	154.42	BT134W-600D T/R
		600	1	50	568-3699-1-ND	.73	13.77	41.31	568-3699-2-ND	4,000	238.68/M	BTA204W-600B /T3
		600	1	35	568-3700-1-ND	.71	13.29	39.87	568-3700-2-ND	4,000	230.36/M	BTA204W-600C /T3
		600	1	25	568-3701-1-ND	.80	14.92	44.75	568-3701-2-ND	4,000	258.57/M	BTA204W-600F /T3

† Bulk

(Continued)

Triacs *(Cont.)*

Fig.	Package	V_{DRM} (V)	I_T (RMS) (A)	I_{GT} (mA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	NXP Part No.
4	SOT-223	800	1	10	568-3702-1-ND	.80	14.96	44.87	568-3702-2-ND	4,000	259.22/M	BTA204W-800E /T3
		600	1	3	568-2193-1-ND	.48	9.50	28.50	568-2193-2-ND	4,000	128.25/M	Z0103MN /T3
		800	1	3	568-2194-1-ND	.48	9.50	28.50	568-2194-2-ND	4,000	128.25/M	Z0103NN /T3
		600	1	5	568-2195-1-ND	.48	9.50	28.50	568-2195-2-ND	4,000	128.25/M	Z0107MN /T3
		800	1	5	568-2196-1-ND	.48	9.50	28.50	568-2196-2-ND	4,000	128.25/M	Z0107NN /T3
		600	1	10	568-2197-1-ND	.48	9.50	28.50	568-2197-2-ND	4,000	128.25/M	Z0109MN /T3
		800			568-2198-1-ND	.48	9.50	28.50	568-2198-2-ND	4,000	128.25/M	Z0109NN /T3
5	D2PAK	600	16	25	568-3668-1-ND	2.13	42.55	127.65	568-3668-2-ND	800	919.08	BT139B-600E /T3
		1000	8	35	568-3712-1-ND	1.88	37.50	112.50	568-3712-2-ND	800	810.00	BTA208B-1000C /T3
		600	12	50	568-3725-1-ND	1.49	30.95	99.04	568-3725-2-ND	800	554.62	BTA212B-600B /T3
		600	12	5	568-3726-1-ND	1.35	26.99	80.96	568-3726-2-ND	800	582.88	BTA212B-600D /T3
		600	12	10	568-3727-1-ND	1.36	27.28	81.84	568-3727-2-ND	800	589.25	BTA212B-600E /T3
		600	12	25	568-3728-1-ND	1.34	26.88	80.64	568-3728-2-ND	800	580.61	BTA212B-600F /T3
		600	16	50	568-3736-1-ND	1.45	28.91	86.72	568-3736-2-ND	800	624.35	BTA216B-600B /T3
		600	16	5	568-3737-1-ND	1.58	31.69	95.06	568-3737-2-ND	800	684.40	BTA216B-600D /T3
		600	16	10	568-3738-1-ND	1.58	31.69	95.06	568-3738-2-ND	800	684.40	BTA216B-600E /T3
		600	16	25	568-3739-1-ND	1.58	31.69	95.06	568-3739-2-ND	800	684.40	BTA216B-600F /T3
		800	16	50	568-3740-1-ND	1.45	28.91	86.72	568-3740-2-ND	800	624.35	BTA216B-800B /T3
		800	25	50	568-1780-1-ND	1.96	39.27	117.81	568-1780-2-ND	800	848.23	BTA225B-800B /T3
6	DPAK	600	4	70	568-3652-1-ND	.90	18.75	60.00	568-3652-2-ND	2,500	390.00/M	BT136S-600 /T3
		600	4	10	568-3653-1-ND	.76	14.18	42.53	568-3653-2-ND	2,500	245.70/M	BT136S-600D /T3
		600	4	25	568-3654-1-ND	.96	17.93	53.78	568-3654-2-ND	2,500	310.70/M	BT136S-600E /T3
		800	4	25	568-3655-1-ND	1.00	20.81	66.60	568-3655-2-ND	2,500	432.90/M	BT136S-800E /T3
		600	8	10	568-3660-1-ND	.84	15.75	47.25	568-3660-2-ND	2,500	273.00/M	BT137S-600D /T3
		600	8	25	568-3661-1-ND	1.14	23.69	75.80	568-3661-2-ND	2,500	492.70/M	BT137S-600E /T3
		600	4	50	568-3696-1-ND	.85	15.87	47.61	568-3696-2-ND	2,500	275.08/M	BTA204S-600B /T3
		600	4	35	568-3697-1-ND	.85	15.92	47.77	568-3697-2-ND	2,500	276.00/M	BTA204S-600C /T3
		600	4	25	568-3698-1-ND	.90	16.82	50.45	568-3698-2-ND	2,500	291.46/M	BTA204S-600F /T3
		600	8	5	568-3713-1-ND	.97	20.14	64.44	568-3713-2-ND	2,500	418.86/M	BTA208S-600D /T3
		600	8	10	568-3714-1-ND	.95	19.82	63.42	568-3714-2-ND	2,500	412.24/M	BTA208S-600E /T3
		600	8	25	568-3715-1-ND	.95	19.82	63.42	568-3715-2-ND	2,500	412.24/M	BTA208S-600F /T3

† Bulk

Thyristors

Fig. 1 —TO-220AB

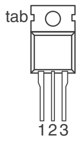

1. Cathode
2. Anode
3. Gate
Tab - Anode

Fig. 2 — SOT-533

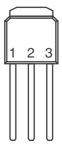

1. Cathode
2. Anode
3. Gate
Tab - Anode

Fig. 3 — TO-92

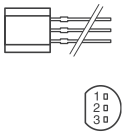

A

1. Cathode
2. Gate
3. Anode

B

1. Anode
2. Gate
3. Cathode

Fig. 4 — TO-220F

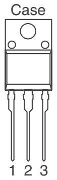

1. Cathode
2. Anode
3. Gate
Case - Isolated

Fig. 5 — SOT-223

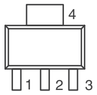

1. Cathode
2. Anode
3. Gate
4. Anode

Fig. 6 — DPAK

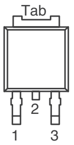

1. Cathode
2. Anode
3. Gate
Tab - Anode

Fig.	Package	V_{DRM} (V)	On State RMS Current I_T (RMS)	Peak Surge Current I_{TSM} (A)	Peak Gate Power P_{GM} (W)	Digi-Key Part No.	Pricing 1	25	100	NXP Part No.
1	TO-220AB	800	25	300	20	568-3670-5-ND	1.42	29.53	94.50	BT145-800R
		500	12	100	5	568-1775-ND	.95	17.73	53.19	BT151-500C
		500	12	120	5	568-3673-5-ND	.82	15.36	46.08	BT151-500R
		650	12	100	5	568-1776-ND	.95	17.73	53.19	BT151-650C
		650	12	120	5	568-3674-5-ND	.82	15.36	46.08	BT151-650R
		800	12	100	5	568-1777-ND	.95	17.73	53.19	BT151-800C
		800	12	120	5	568-3675-5-ND	.76	15.75	50.40	BT151-800R
		450	20	200	20	568-3676-5-ND	1.14	23.75	76.00	BT152-400R
		650	20	200	20	568-3677-5-ND	.95	19.69	63.00	BT152-600R
		800	20	200	20	568-3678-5-ND	1.01	21.00	67.20	BT152-800R
2	SOT-533	500	12	100	5	568-1778-ND	.80	16.56	53.00	BT151U-500C
3A	TO-92	600	0.8	8	2	568-3672-ND	.40	7.81	22.00	BT149G
3B	TO-92	500	0.8	8	2	568-3680-ND	.40	7.81	22.00	BT168E
		600	0.8	8	2	568-3681-ND	.40	7.81	22.00	BT168G
		600	0.8	8	2	568-3683-ND	.40	7.81	22.00	BT169G
4	TO-220F	450	20	200	20	568-3679-ND	1.23	25.63	82.00	BT152X-400R
5	SOT-223	600	1	10	1.2	568-3671-1-ND‡	.67	12.60	37.80	BT148W-600R T/R
		600	1	10	1.2	568-3671-2-ND◊		223.44/1,000		BT148W-600R T/R
		600	1	8	2	568-3682-1-ND‡	.42	8.40	25.20	BT168GW T/R
		600	1	8	2	568-3682-2-ND◊		117.60/1,000		BT168GW T/R
6	DPAK	600	8	65	5	568-3684-1-ND‡	1.04	21.63	69.20	BT300S-600R /T3
		600	8	65	5	568-3684-2-ND◊		1124.50/2,500		BT300S-600R /T3

‡ Cut Tape ◊ Tape and Reel

Diacs

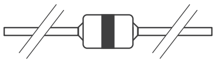

Package	$V_{(BO)}$ (V) Minimum	Maximum	$V_{(BO)}$ Symmetry (V) Maximum	Breakover Current $I_{(BO)}$ Maximum (µA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 10,000	NXP Part No.
SOD-27	28	36	3.5	50	568-1767-1-ND	.72	13.43	40.28	568-1767-2-ND	223.75/M	BR100/03 T/R

International
IOR Rectifier

IGBT Transistors

Fig.	Package	VCE	VCE (Sat) Max	IC @ TC +25°C	Pulse Current ICM	Max Power Dissipation	Delay Time (ns)		Digi-Key Part No.	Price Each		
							Td (on)	Td (off)		1	10	100
1	TO-220AB	430	1.2	20	—	125	0.9‡	6‡	IRGB14C40LPBF-ND◆	3.96	2.64	2.12
		600	2.39	9.0	18	38	11	51	IRG4BC10KPBF-ND◆	3.15	2.03	1.58
			1.1	14	18	38	25	630	IRG4BC10SPBF-ND◆	3.15	2.03	1.58
			2.15	8.5	34	38	40	87	IRG4BC10U-ND	3.75	2.50	2.00
			2.15	8.5	34	38	40	87	IRG4BC10UPBF-ND◆	3.00	2.00	1.60
			1.66	16	64	60	24	190	IRG4BC20FPBF-ND◆	3.33	2.22	1.78
			2.8	16	32	60	28	190	IRG4BC20KPBF-ND◆	3.33	2.22	1.78
			1.6	19	38	60	27	540	IRG4BC20SPBF-ND◆	3.33	2.22	1.78
			2.27	13	52	60	20	190	IRG4BC20UPBF-ND◆	3.48	2.32	1.86
			2.16	13	52	60	22	110	IRG4BC20WPBF-ND◆	3.48	2.32	1.86
			1.99	31	120	100	20	290	IRG4BC30FPBF-ND◆	4.47	2.98	2.39
			2.21	28	58	100	26	130	IRG4BC30KPBF-ND◆	4.17	2.78	2.23
			1.4	34	68	100	22	540	IRG4BC30SPBF-ND◆	4.47	2.98	2.39
			2.52	23	92	100	20	180	IRG4BC30UPBF-ND◆	4.65	3.10	2.48
			2.70	23	92	100	24	150	IRG4BC30WPBF-ND◆	4.86	3.24	2.60
			1.5	49	200	160	26	240	IRG4BC40FPBF-ND◆	6.96	4.64	3.72
			2.10	42	84	160	30	140	IRG4BC40KPBF-ND◆	7.14	4.76	3.81
			2.15	40	160	160	30	220	IRG4BC40UPBF-ND◆	7.14	4.76	3.81
			2.05	40	160	160	27	100	IRG4BC40WPBF-ND◆	7.75	5.74	4.65
			2.5	12	24	63	22	100	IRGB4B60KPBF-ND◆	2.30	1.48	1.15
			2.2	13	26	90	25	215	IRGB6B60KPBF-ND◆	2.66	1.71	1.33
			2.2	28	56	167	23	140	IRGB8B60KPBF-ND◆	3.37	2.17	1.69
			1.95	78	120	370	46	185	IRGB30B60KPBF-ND◆	6.30	4.20	3.36
2	TO-220AB	600	2.39	9.0	18	38	49	97	IRG4BC10KDPBF-ND◆	3.36	2.24	1.80
			1.1	14	18	38	76	815	IRG4BC10SDPBF-ND◆	3.00	2.00	1.60
			2.15	8.5	34	38	40	87	IRG4BC10UDPBF-ND◆	3.00	2.00	1.60
			2.3	14	28	49	21	540	IRG4BC15MDPBF-ND◆	3.66	2.44	1.96
			2.02	14	42	49	17	160	IRG4BC15UD-ND	4.57	3.05	2.44
			2.02	14	42	49	17	160	IRG4BC15UDPBF-ND◆	3.66	2.44	1.96
			1.66	16	64	60	43	240	IRG4BC20FDPBF-ND◆	4.56	3.04	2.44
			2.27	16	32	60	54	180	IRG4BC20KDPBF-ND◆	4.71	3.14	2.52
			2.1	18	36	60	21	463	IRG4BC20MDPBF-ND◆	3.90	2.60	2.08
			1.4	19	38	60	62	690	IRG4BC20SD-ND	4.63	3.71	2.78
			1.4	19	38	60	62	690	IRG4BC20SDPBF-ND◆	4.44	2.97	2.37
			2.27	13	52	60	38	100	IRG4BC20UDPBF-ND◆	4.71	3.14	2.52
			1.99	31	120	100	42	310	IRG4BC30FDPBF-ND◆	7.29	4.86	3.89
			1.59	31	120	100	22	250	IRG4BC30FD1PBF-ND◆	6.30	4.20	3.36
			2.21	28	58	100	60	160	IRG4BC30KDPBF-ND◆	5.70	3.80	3.04
			2.52	23	92	100	40	120	IRG4BC30UDPBF-ND◆	7.47	4.98	3.99
			2.5	11	22	63	22	100	IRGB4B60KD1PBF-ND◆	3.24	2.09	1.62
			2.2	13	26	90	25	215	IRGB6B60KDPBF-ND◆	3.58	2.39	1.92
			2.2	22	44	156	30	230	IRGB10B60KDPBF-ND◆	4.46	2.98	2.39
			2.2	31	62	208	34	184	IRGB15B60KDPBF-ND◆	6.94	4.63	3.71
			2.35	40	80	215	20	115	IRGB20B60PD1PBF-ND◆	4.89	3.26	2.61
		1200	3.0	12	24	89	22	100	IRGB5B120KDPBF-ND◆	6.60	4.40	3.52
1	TO-247AC	250	1.32	98	196	200	40	270	IRG4P254SPBF-ND◆	11.47	8.49	6.89
			1.64	104	208	330	37	120	IRGP4050PBF-ND◆	11.63	9.30	6.98
		600	2.1	13	52	60	20	190	IRG4PC20UPBF-ND◆	5.63	3.75	3.00
			1.59	31	120	100	21	200	IRG4PC30F-ND	6.25	4.63	3.75
			1.59	31	120	100	21	200	IRG4PC30FPBF-ND◆	6.00	4.00	3.20
			2.21	28	58	100	26	130	IRG4PC30K-ND	7.07	5.66	4.25
			2.21	28	58	100	26	130	IRG4PC30KPBF-ND◆	6.79	4.53	3.63
			1.4	34	68	100	22	540	IRG4PC30SPBF-ND◆	6.79	4.53	3.63
			1.95	23	92	100	17	78	IRG4PC30U-ND	8.35	6.18	5.01
			1.95	23	92	100	17	78	IRG4PC30UPBF-ND◆	6.68	4.94	4.01
			2.70	23	92	100	25	99	IRG4PC30WPBF-ND◆	6.00	4.00	3.20
			1.5	49	200	160	26	240	IRG4PC40FPBF-ND◆	6.50	4.81	3.90
			2.1	42	84	160	30	140	IRG4PC40K-ND	9.53	7.63	5.46
			2.1	42	84	160	30	140	IRG4PC40KPBF-ND◆	7.63	5.65	4.58
			1.68	60	120	160	23	1000	IRG4PC40SPBF-ND◆	6.40	4.74	3.84
			2.15	40	160	160	30	220	IRG4PC40UPBF-ND◆	6.40	4.74	3.84
			2.05	40	160	160	27	100	IRG4PC40WPBF-ND◆	8.08	5.98	4.85
			1.79	70	280	200	28	390	IRG4PC50FPBF-ND◆	10.50	7.77	6.30
			2.2	52	104	200	38	160	IRG4PC50KPBF-ND◆	11.99	8.87	7.20
			1.36	70	140	200	33	650	IRG4PC50SPBF-ND◆	10.50	7.77	6.30
			2.00	55	220	200	31	230	IRG4PC50UPBF-ND◆	10.78	7.98	6.47
			2.30	55	220	200	46	120	IRG4PC50WPBF-ND◆	11.33	8.39	6.80
			1.8	90	120	520	42	310	IRG4PC60FPBF-ND◆	15.50	12.06	10.00
			1.8	90	120	520	42	310	IRG4PC60F-PPBF-ND◆	15.50	12.06	10.00
			2.0	75	300	520	39	200	IRG4PC60UPBF-ND◆	11.45	10.18	7.38
			2.0	75	300	520	39	200	IRG4PC60U-PPBF-ND◆	13.96	10.87	9.00
		900	2.25	51	204	200	29	110	IRG4PF50WPBF-ND◆	10.50	7.77	6.30
		1200	3.17	11	22	60	23	93	IRG4PH20KPBF-ND◆	6.21	4.14	3.32
			3.10	20	40	100	28	200	IRG4PH30KPBF-ND◆	6.00	4.00	3.20
			2.74	30	60	160	30	200	IRG4PH40KPBF-ND◆	6.80	5.44	4.08
			2.43	30	82	160	24	220	IRG4PH40UPBF-ND◆	6.80	5.04	4.08
			2.77	45	90	200	36	200	IRG4PH50KPBF-ND◆	9.75	7.22	5.85
			3.20	45	180	200	31	320	IRG4PH50UPBF-ND◆	12.85	10.00	8.28
			1.47	57	114	200	32	845	IRG4PH50SPBF-ND◆	10.05	7.44	6.03
2	TO-247AC	300	2.1	110	—	255	42	362	IRGP4055DPBF-ND◆	10.63	7.87	6.38
			2.1	70	—	160	30	170	IRGP4065DPBF-ND◆	6.57	4.87	3.95
		600	1.99	31	120	100	42	310	IRG4PC30FDPBF-ND◆	6.68	5.34	4.01
			2.7	28	58	100	60	160	IRG4PC30KDPBF-ND◆	6.68	4.94	4.01
			1.95	23	92	100	40	91	IRG4PC30UDPBF-ND◆	6.95	5.15	4.17
			1.85	49	200	160	63	350	IRG4PC40FDPBF-ND◆	10.25	7.59	6.15
			2.14	96	192	330	55	165	IRGP4063DPBF-ND◆	11.15	8.26	6.69
			2.14	96	192	330	—	165	IRGP4068DPBF-ND◆	9.88	7.31	5.93
			2.6	42	84	160	53	110	IRG4PC40KDPBF-ND◆	10.50	7.77	6.30
			2.15	40	160	160	40	200	IRG4PC40UDPBF-ND◆	10.50	7.77	6.30
			1.79	70	280	200	59	260	IRG4PC50FDPBF-ND◆	14.94	11.62	9.63
			2.77	52	90	200	67	310	IRG4PC50KDPBF-ND◆	13.50	10.50	8.70

‡ µs ◆ ***RoHS Compliant***

Fig. 1

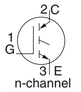

Fig. 2

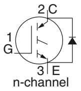

Fig. 3

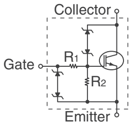

TO-220AB

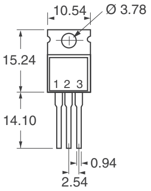

TO-247AC

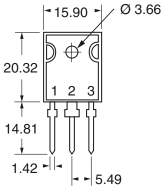

TO-247AD

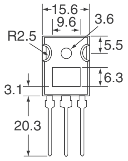

(Continued)

Fig.	Package	VCE	VCE (Sat) Max	IC @ TC +25°C	Pulse Current ICM	Max Power Dissipation	Delay Time (ns) Td (on)	Delay Time (ns) Td (off)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
2	TO-247AC	600	2.00	55	220	200	44	240	IRG4PC50UDPBF-ND◆	15.21	11.83	9.81
			2.35	40	80	220	20	115	IRGP20B60PDPBF-ND◆	6.31	4.67	3.79
			2.15	60	120	308	26	110	IRGP35B60PDPBF-ND◆	9.95	7.36	5.97
			2.2	75	150	370	34	130	IRGP50B60PDPBF-ND◆	13.05	11.60	8.41
			2.35	75	150	390	30	130	IRGP50B60PD1PBF-ND◆	11.70	9.10	7.54
		900	2.25	51	204	200	71	150	IRG4PF50WDPBF-ND◆	15.21	12.51	9.81
		1200	4.2	20	40	100	39	220	IRG4PH30KDPBF-ND◆	7.63	5.65	4.58
			2.74	30	60	160	50	140	IRG4PH40KDPBF-ND◆	9.25	6.85	5.55
			2.43	30	82	160	46	150	IRG4PH40UDPBF-ND◆	9.00	6.66	5.40
			2.1	45	84	160	30	140	IRG4PH50KDPBF-ND◆	13.50	10.50	8.70
			3.20	45	180	200	46	240	IRG4PH50UDPBF-ND◆	21.22	16.51	13.68
			3.17	11	22	60	50	100	IRG4PH20KDPBF-ND◆	7.74	5.73	4.65
			4.85	40	120	300	50	204	IRGP20B120UD-E-ND	16.88	13.13	10.88
			4.85	40	120	300	50	204	IRGP20B120UD-EP-ND◆	13.50	12.00	8.70
1	TO-247AD	1200	3.05	40	120	300	50	204	IRGP20B120U-E-ND	13.40	9.65	8.04
			3.05	40	120	300	50	204	IRGP20B120U-EP-ND◆	10.72	7.94	6.44
2	TO-247AD	600	2.14	96	192	330	—	165	IRGP4068D-EPBF-ND◆	9.93	7.35	5.96
			2.1	40	160	160	54	110	IRG4PC40UD-EPBF-ND◆	10.50	7.77	6.30
			2.0	55	220	200	46	140	IRG4PC50UD-EPBF-ND◆	15.21	11.83	9.81
			2.35	60	120	304	46	185	IRGP30B60KD-EP-ND◆	10.11	7.49	6.07
		1200	3.1	41	82	160	46	97	IRG4PH40UD-EPBF-ND◆	9.00	7.20	5.40
			2.43	41	82	160	22	100	IRG4PH40UD2-E-ND	10.72	7.94	6.57
			2.43	41	82	160	22	100	IRG4PH40UD2-EP-ND◆	8.58	6.35	5.15
			2.28	60	120	300	50	210	IRGP30B120KD-E-ND	16.88	13.13	10.88
			2.28	60	120	300	50	210	IRGP30B120KD-EP-ND◆	13.50	10.50	8.70
1	SUPER-247	600	1.83	85	200	350	34	251	IRG4PSC71KPBF-ND◆	19.45	15.13	12.54
			2.00	85	200	350	34	56	IRG4PSC71UPBF-ND◆	16.47	12.82	10.62
		1200	2.7	99	200	350	51	280	IRG4PSH71UPBF-ND◆	20.69	16.09	13.34
			2.97	78	156	350	45	220	IRG4PSH71KPBF-ND◆	20.08	15.62	12.95
			3.40	80	160	595	76	332	IRGPS40B120UPBF-ND◆	18.68	14.53	12.04
2	SUPER-247	600	1.83	85	200	350	82	282	IRG4PSC71KDPBF-ND◆	20.54	16.44	14.38
			2.00	85	200	350	90	245	IRG4PSC71UD-ND	25.68	20.55	17.98
			2.00	85	200	350	90	245	IRG4PSC71UDPBF-ND◆	20.54	16.44	14.38
		1200	2.7	99	200	350	46	250	IRG4PSH71UDPBF-ND◆	26.45	21.16	18.52
			2.97	78	156	350	67	230	IRG4PSH71KDPBF-ND◆	22.54	18.04	15.78
			3.40	80	160	595	76	332	IRGPS40B120UDP-ND◆	20.80	16.64	14.56
			2.50	105	240	595	72	366	IRGPS60B120KDP-ND◆	23.00	18.40	16.10
1	D2PAK	300	1.3	110	—	255	57	308	IRGS4055PBF-ND◆	8.95	6.63	5.37
			1.4	70	—	178	30	170	IRGS4065PBF-ND◆	6.51	4.34	3.48
		430	1.2	20	—	125	0.9	6	IRGS14C40LPBF-ND◆	4.26	2.84	2.28
		600	1.4	34	68	100	22	540	IRG4BC30S-SPBF-ND◆	4.59	3.07	2.45
			1.66	16	64	60	43	240	IRG4BC20F-SPBF-ND◆	3.45	2.30	1.84
			2.27	16	32	60	28	150	IRG4BC20K-S-ND	4.31	2.88	2.31
			2.7	28	58	100	26	130	IRG4BC30K-SPBF-ND◆	4.59	3.07	2.45
			2.05	40	160	160	27	100	IRG4BC40W-SPBF-ND◆	6.99	4.67	3.73
		1200	3.17	11	22	60	23	93	IRG4BH20K-SPBF-ND◆	3.66	2.44	1.96
2	D2PAK	600	1.10	14	18	38	76	815	IRG4BC10SD-SPBF-ND◆	3.64	2.43	1.95
			2.02	14	42	49	17	160	IRG4BC15UD-SPBF-ND◆	3.94	2.63	2.11
			2.8	16	32	60	54	180	IRG4BC20KD-SPBF-ND◆	4.80	3.20	2.56
			1.85	18	36	60	21	463	IRG4BC20MD-S-ND	6.00	4.20	3.27
			1.85	18	36	60	21	463	IRG4BC20MD-SPBF-ND◆	4.80	3.20	2.56
			1.4	19	38	60	62	690	IRG4BC20SD-SPBF-ND◆	4.80	3.20	2.56
			1.85	13	52	60	39	93	IRG4BC20UD-SPBF-ND◆	4.80	3.20	2.56
			1.99	31	120	100	42	310	IRG4BC30FD-S-ND	7.78	5.76	4.67
			1.99	31	120	100	42	310	IRG4BC30FD-SPBF-ND◆	7.47	4.98	3.99
			2.21	28	58	100	60	160	IRG4BC30KD-SPBF-ND◆	5.79	3.86	3.09
1	D-PAK	600	2.39	9.0	18	38	11	51	IRG4RC10KPBF-ND◆	3.05	1.96	1.53
			1.7	8	18	38	25	630	IRG4RC10S-ND	2.73	2.18	1.64
			2.15	8.5	34	38	19	116	IRG4RC10U-ND	2.72	2.18	1.63
1	TO-220 FULLPAK	600	2.16	11.8	52	34	22	110	IRG4IBC20WPBF-ND◆	4.28	2.85	2.28
			1.6	23.5	68	45	22	540	IRG4IBC30SPBF-ND◆	5.33	3.55	2.84
			2.1	17	92	45	25	99	IRG4IBC30WPBF-ND◆	5.42	3.62	2.89
2	TO-220 FULLPAK	600	2.15	6.8	27	25	40	87	IRG4IBC10UDPBF-ND◆	5.67	3.78	3.03
			2.0	14.3	64	34	43	240	IRG4IBC20FDPBF-ND◆	4.71	3.14	2.52
			2.27	11.5	23	34	54	180	IRG4IBC20KD-ND	5.89	3.93	3.15
			2.27	11.5	23	34	54	180	IRG4IBC20KDPBF-ND◆	4.71	3.14	2.52
			1.85	11.4	52	34	39	93	IRG4IBC20UDPBF-ND◆	7.44	4.96	3.97
			1.59	20.3	120	45	42	230	IRG4IBC30FDPBF-ND◆	7.44	4.96	3.97
			2.21	17	34	45	60	160	IRG4IBC30KD-ND	7.75	6.20	4.65
			2.21	17	34	45	60	160	IRG4IBC30KDPBF-ND◆	7.44	4.96	3.97
			1.95	17	92	45	40	91	IRG4IBC30UDPBF-ND◆	7.03	4.69	3.76
			2.2	11	22	38	25	215	IRGIB6B60KDPBF-ND◆	4.33	2.89	2.32
			2.2	12	24	39	23	140	IRGIB7B60KDPBF-ND◆	4.53	3.02	2.42
			2.1	16	32	44	25	180	IRGIB10B60KD1P-ND◆	4.89	3.27	2.61
1	TO-262	600	2.5	40	160	160	27	100	IRG4BC40WLPBF-ND◆	5.70	3.80	3.04
		1200	3.17	11	22	60	23	93	IRG4BH20K-LPBF-ND◆	4.01	2.68	2.15
2	TO-262	600	1.10	14	18	38	76	815	IRG4BC10SD-LPBF-ND◆	3.64	2.43	1.95
			2.02	14	42	49	17	160	IRG4BC15UD-LPBF-ND◆	3.94	2.63	2.11
			2.5	11	22	63	22	100	IRGSL4B60KD1PBF-ND◆	3.15	2.10	1.68
			2.2	13	26	90	25	215	IRGSL6B60KDPBF-ND◆	3.60	2.40	1.92
3	TO-262AA	430	1.4	20	20	125	900	6000	IRGSL14C40LPBF-ND◆	4.84	3.23	2.59

‡ µs ◆ ***RoHS Compliant***

SUPER-247

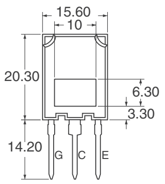

D2PAK

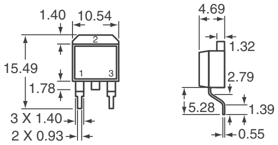

D-PAK

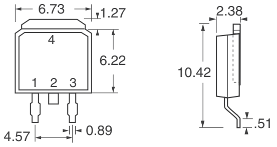

TO-220 FULLPAK

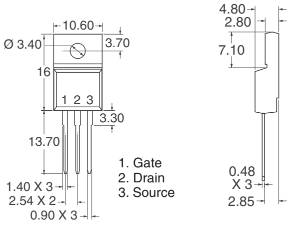

TO-262, TO-262AA

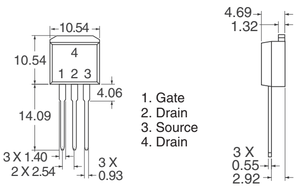

N and P Channel HEXFETs

Dimensions in mm

Fig. 1 — TO-220AB

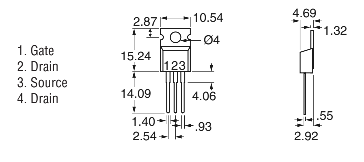

Fig. 2 — TO-220 FULLPAK

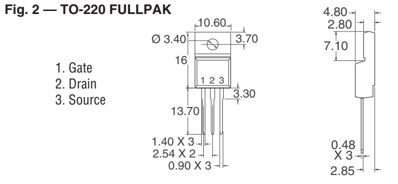

Fig. 3 — TO-247AC

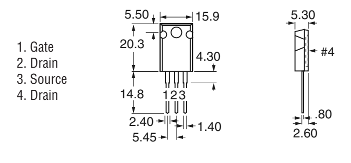

Fig. 4 — TO-262

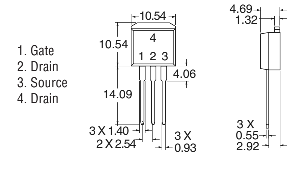

Fig. 5 — I-Pak

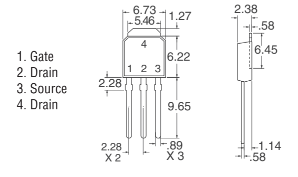

Fig. 6 — Super-220™

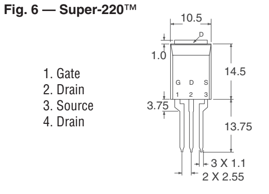

Fig. 7 — Super 247

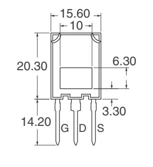

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
P-CHANNEL TYPES									
TO-220AB — RoHS Compliant									
1	-55	0.02	-74	-260	150	IRF4905PBF-ND	3.30	2.20	1.76
	-55	0.06	-31	-110	110	IRF5305PBF-ND	2.87	1.85	1.44
	-55	0.1	-19	-68	56	IRF9Z34NPBF-ND	2.69	1.73	1.35
	-55	0.175	-12	-48	45	IRF9Z24NPBF-ND	1.78	1.15	.90
	-100	0.06	-40	-140	150	IRF5210PBF-ND	4.23	2.82	2.26
	-100	0.117	-23	-76	94	IRF9540NPBF-ND	3.43	2.21	1.72
	-100	0.2	-14	-56	75	IRF9530NPBF-ND	1.82	1.17	.91
	-100	0.48	-6.8	-27	48	IRF9520NPBF-ND	1.88	1.18	.87
	-150	0.15	-27	-110	250	IRF6218PBF-ND	3.07	1.98	1.54
	-150	0.29	-13	-44	83	IRF6215PBF-ND	2.38	1.53	1.19
TO-220 FULLPAK — RoHS Compliant									
2	-55	0.015	-14	-60	33	IRLIB9343PBF-ND	2.56	1.65	1.28
TO-247AC — RoHS Compliant									
3	-100	0.117	-23	-76	140	IRFP9140NPBF-ND	4.20	2.40	1.92
TO-262									
4	-55	0.02	-74	-260	200	IRF4905L-ND	4.13	2.75	2.20
	-55	0.1	-19	-68	3.8	IRF9Z34NLPBF-ND◆	3.01	1.94	1.51
	-55	0.28	-12	-48	3.8	IRF9Z24NLPBF-ND◆	2.13	1.37	1.07
I-Pak — RoHS Compliant									
5	-55	0.015	-20	-60	79	IRLU9343PBF-ND	1.60	1.00	.74
	-55	0.065	-28	-110	110	IRFU5305PBF-ND	2.56	1.65	1.28
	-55	0.11	-18	-64	57	IRFU5505PBF-ND	1.86	1.20	.93
	-55	0.175	-11	-44	38	IRFU9024NPBF-ND	1.96	1.23	.91
	-100	0.205	-13	-52	66	IRFU5410PBF-ND	1.82	1.17	.91
	-100	0.48	-6.6	-26	40	IRFU9120NPBF-ND	1.96	1.23	.91
	-150	0.295	-13	-44	110	IRFU6215PBF-ND	2.24	1.44	1.12
N-CHANNEL TYPES									
TO-220AB									
1	20	0.004	180	700	230	IRF1302PBF-ND◆	3.19	2.05	1.60
	20	0.006	92	380	79	IRF3711ZPBF-ND◆	2.47	1.60	1.24
	20	0.006	110	440	120	IRF3711PBF-ND◆	3.01	1.94	1.51
	20	0.0079	67	260	57	IRF3704ZPBF-ND◆	2.14	1.38	1.07
	20	0.0085	77	280	88	IRF3706PBF-ND◆	2.17	1.40	1.09
	20	0.011	50	200	45	IRL3715ZPBF-ND◆	1.87	1.21	.94
	20	0.014	54	210	71	IRL3715PBF-ND◆	2.04	1.32	1.03
	20	0.016	36	140	35	IRL3714ZPBF-ND◆	1.79	1.15	.90
	20	0.02	36	140	47	IRL3714PBF-ND◆	1.40	.88	.65
	20	0.09	77	308	87	IRF3704PBF-ND◆	2.53	1.63	1.27
	30	0.0028	210	1000	230	IRF3703PBF-ND◆	5.31	3.54	2.84
	30	0.0033	75	960	330	IRF1503PBF-ND◆	3.78	2.52	2.02
	30	0.006	105	420	110	IRL8113PBF-ND◆	3.00	1.93	1.50
	30	0.006	140	470	200	IRL3803PBF-ND◆	3.90	2.60	2.08
	30	0.0063	87	350	79	IRF3709ZPBF-ND◆	2.54	1.64	1.28
	30	0.009	90	360	120	IRF3709PBF-ND◆	2.00	1.29	1.00
	30	0.0095	59	230	57	IRF3707ZPBF-ND◆	2.14	1.38	1.07
	40	0.0023	75	1080	330	IRF2804PBF-ND◆	5.58	3.72	2.98
	40	0.004	202	808	333	IRF1404PBF-ND◆	4.95	3.30	2.64
	40	0.0036	210	850	330	IRF2204PBF-ND◆	3.22	2.15	1.72
	40	0.0037	75	750	220	IRF1404ZPBF-ND◆	3.76	2.51	2.01
	40	0.0031	75	790	230	IRL1404ZPBF-ND◆	3.67	2.45	1.96
	40	0.0055	75	470	140	IRF4104PBF-ND◆	3.36	2.16	1.68
	40	0.009	100	400	170	IRF1104PBF-ND◆	3.40	2.19	1.70
1	55	0.0047	75	700	330	IRF2805PBF-ND◆	4.80	3.20	2.56
	55	0.005	75	600	230	IRF1405ZPBF-ND◆	4.82	3.21	2.57
	55	0.0053	169	680	330	IRF1405PBF-ND◆	4.95	3.30	2.64
	55	0.0075	75	360	140	IRF1010ZPBF-ND◆	3.16	2.04	1.59
	55	0.007	75	440	170	IRF3205ZPBF-ND◆	3.48	2.32	1.86
	55	0.008	75	340	130	IRL3705ZPBF-ND◆	2.81	1.81	1.41
	55	0.008	75	560	330	IRF3305PBF-ND◆	3.43	2.21	1.72
	55	0.008	110	390	150	IRF3205PBF-ND◆	4.05	2.70	2.16
	55	0.011	61	240	91	IRFZ48ZPBF-ND◆	2.19	1.41	1.10
	55	0.012	85	290	130	IRF1010NPBF-ND◆	4.05	2.70	2.16
	55	0.0135	51	204	80	IRLZ44ZPBF-ND◆	2.02	1.30	1.01
	55	0.0136	51	200	82	IRFZ46ZPBF-ND◆	2.02	1.30	1.01
	55	0.0139	51	200	80	IRFZ44ZPBF-ND◆	1.98	1.28	1.00
	55	0.016	64	210	94	IRFZ48NPBF-ND◆	4.80	3.20	2.56
	55	0.0165	53	180	107	IRFZ46NPBF-ND◆	2.94	1.89	1.47
	55	0.022	47	160	83	IRLZ44NPBF-ND◆	2.02	1.30	1.01
	55	0.024	49	160	83	IRFZ44NPBF-ND◆	1.89	1.22	.95
	55	0.035	30	110	68	IRLZ34NPBF-ND◆	1.84	1.15	.86
	55	0.04	29	100	56	IRFZ34NPBF-ND◆	1.84	1.15	.86
	55	0.07	17	68	45	IRFZ24NPBF-ND◆	1.92	1.24	.97
	55	0.074	18	72	45	IRLZ24NPBF-ND◆	1.96	1.26	.98
	60	0.0085	75	340	140	IRF1010EZPBF-ND◆	2.94	1.89	1.47
	60	0.003	210	840	300	IRFB3206PBF-ND◆	6.29	4.20	3.36
	60	0.0042	160	620	230	IRFB3306PBF-ND◆	4.79	3.20	2.56
	60	0.009	115	360	270	IRFB4215PBF-ND◆	3.00	2.00	1.60
	60	0.012	57	230	92	IRFZ44VZPBF-ND◆	2.17	1.40	1.09
	60	0.012	72	290	150	IRFZ48VPBF-ND◆	3.15	2.03	1.58
	60	0.012	84	330	200	IRF1010EPBF-ND◆	3.75	2.50	2.00
	60	0.0165	55	220	115	IRFZ44VPBF-ND◆	2.10	1.35	1.05
	60	0.023	48	192	110	IRFZ44E-ND	2.65	1.74	1.34
	60	0.023	48	192	110	IRFZ44EPBF-ND◆	2.24	1.44	1.12
	60	0.042	28	112	68	IRFZ34EPBF-ND◆	1.85	1.19	.93
	60	0.06	17	68	44	IRFZ24VPBF-ND◆	1.87	1.17	.87
	75	.0028	210	850	370	IRFB3077PBF-ND◆	7.35	4.90	3.92
	75	.0045	75	680	300	IRF2907ZPBF-ND◆	5.75	3.84	3.07
	75	0.0045	180	720	330	IRFB3207PBF-ND◆	5.79	3.86	3.09
	75	0.0041	170	670	300	IRFB3207ZPBF-ND◆	6.29	4.20	3.36
	75	0.0063	130	510	250	IRFB3307PBF-ND◆	4.95	3.30	2.64
	75	0.0058	120	480	230	IRFB3307ZPBF-ND◆	4.79	3.20	2.56
	75	0.007	140	550	330	IRF3808PBF-ND◆	4.05	2.70	2.16
	75	0.0075	142	570	380	IRF1607PBF-ND◆	4.62	3.08	2.47
	75	0.0078	130	520	330	IRF1407PBF-ND◆	4.05	2.70	2.16
	75	0.0088	97	390	190	IRFB3507PBF-ND◆	3.21	2.14	1.72
	75	0.009	75	350	170	IRF2807ZPBF-ND◆	3.40	2.19	1.70
	75	0.0126	75	320	200	IRF3007PBF-ND◆	2.60	1.68	1.31
	75	0.013	82	280	150	IRF2807PBF-ND◆	4.50	3.00	2.40
	80	0.01	95	380	210	IRF1312PBF-ND◆	3.15	2.10	1.68
	100	0.0037	180	670	370	IRFB4110PBF-ND◆	7.35	4.90	3.92
	100	0.007	140	550	330	IRFB4310PBF-ND◆	5.58	3.72	2.98
	100	0.01	96	380	250	IRFB4410PBF-ND◆	4.35	2.90	2.32
	100	0.014	73	290	190	IRFB4610PBF-ND◆	3.31	2.21	1.77
	100	0.018	59	240	160	IRF3710ZPBF-ND◆	3.18	2.12	1.70
	100	0.025	59	236	200	IRFB59N10DPBF-ND◆	4.20	2.80	2.24
	100	0.0265	36	140	92	IRF540ZPBF-ND◆	3.01	1.94	1.51
	100	0.028	57	180	150	IRF3710PBF-ND◆	4.05	2.70	2.16
	100	0.036	42	140	120	IRF1310NPBF-ND◆	4.20	2.80	2.24
	100	0.052	33	110	94	IRF540NPBF-ND◆	2.28	1.47	1.14
	100	0.0725	18	57	60	IRFB4212PBF-ND◆	2.08	1.48	1.12
	100	0.014	75	300	200	IRFB4710PBF-ND◆	3.28	2.19	1.75

◆ **RoHS Compliant**

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
1	100	0.015	80	320	260	IRF8010PBF-ND◆	3.60	2.40	1.92
	100	0.11	17	60	63	IRF530NPBF-ND◆	1.85	1.19	.93
	100	0.165	9.6	37	44	IRF520VPBF-ND◆	1.86	1.20	.93
	100	0.2	9.7	38	48	IRF520NPBF-ND◆	1.75	1.13	.88
	150	0.032	60	250	2.4	IRFB61N15DPBF-ND◆	6.60	4.40	3.52
	150	0.032	51	240	230	IRFB52N15DPBF-ND◆	5.04	3.36	2.69
	150	0.012	83	330	330	IRFB4321PBF-ND◆	6.87	4.58	3.67
	150	0.012	83	330	330	IRFB4228PBF-ND◆	6.87	4.58	3.67
	150	0.042	43	150	150	IRF3415PBF-ND◆	5.04	3.36	2.69
	150	0.045	41	164	200	IRFB41N15DPBF-ND◆	3.35	2.24	1.79
	150	0.056	33	130	170	IRFB33N15D-ND	3.80	2.54	2.03
	150	0.056	33	130	170	IRFB33N15DPBF-ND◆	3.04	2.03	1.63
	150	0.082	21	84	94	IRF3315PBF-ND◆	3.26	2.10	1.63
	150	0.09	23	92	136	IRFB23N15DPBF-ND◆	3.01	1.94	1.51
	200	0.04	56	220	380	IRFB260NPBF-ND◆	6.90	4.60	3.68
	200	0.054	38	180	230	IRFB38N20DPBF-ND◆	4.13	2.76	2.21
	200	0.055	44	180	330	IRFB42N20DPBF-ND◆	4.85	3.24	2.59
	200	0.082	31	124	200	IRFB31N20DPBF-ND◆	4.17	2.78	2.23
	200	0.1	24	96	170	IRFB23N20DPBF-ND◆	3.60	2.40	1.92
	200	0.15	18	72	150	IRF640NPBF-ND◆	2.94	1.89	1.47
	200	0.165	17	68	140	IRFB4103PBF-ND◆	2.72	1.91	1.50
	200	0.17	16	64	140	IRFB17N20DPBF-ND◆	2.62	1.69	1.31
	200	0.3	9.3	37	82	IRF630NPBF-ND◆	2.06	1.33	1.04
	250	0.24	14	56	150	IRF644NPBF-ND◆	1.68	1.05	.78
	250	0.28	14	56	125	IRF644PBF-ND◆	2.10	1.35	1.05
	250	0.435	8.0	32	88	IRF634NPBF-ND◆	1.88	1.18	.88
	250	0.45	8.1	32	74	IRF634PBF-ND◆	1.72	1.08	.80
	250	0.029	60	230	390	IRFB4332PBF-ND◆	6.61	4.90	4.24
TO-220AB Logic Level									
1	20	0.004	180	720	210	IRL3716PBF-ND◆	2.91	1.87	1.46
	20	0.007	110	420	140	IRL3502PBF-ND◆	3.24	2.16	1.73
	20	0.01	85	340	110	IRL3402PBF-ND◆	3.01	1.94	1.51
	20	0.013	61	240	89	IRL3102PBF-ND◆	2.38	1.54	1.20
	20	0.016	48	190	69	IRL3202PBF-ND◆	1.99	1.28	1.00
	20	0.02	39	160	57	IRL3302PBF-ND◆	2.03	1.31	1.02
	30	0.003	260	1040	330	IRL3713PBF-ND◆	3.96	2.64	2.12
	30	0.0038	150	600	140	IRL7833PBF-ND◆	3.75	2.14	1.72
	30	0.0055	140	470	200	IRL3803VPBF-ND◆	2.64	1.70	1.32
	30	0.007	116	400	130	IRL2203NPBF-ND◆	3.27	2.11	1.64
	30	0.012	62	248	87	IRF3708PBF-ND◆	2.17	1.40	1.09
	30	0.0125	62	248	87	IRF3707PBF-ND◆	2.17	1.40	1.09
	30	0.014	64	220	110	IRL3103PBF-ND◆	2.38	1.54	1.20
	30	0.026	38	140	68	IRL3303PBF-ND◆	2.66	1.71	1.33
	30	0.04	24	96	45	IRL2703PBF-ND◆	1.58	.99	.74
	40	0.004	160	640	200	IRL1404PBF-ND◆	3.60	2.40	1.92
	40	0.0065	130	520	200	IRL1004PBF-ND◆	4.41	2.94	2.36
	40	0.008	104	416	167	IRL1104PBF-ND◆	3.60	2.32	1.65
	55	0.008	104	360	200	IRL2505PBF-ND◆	3.60	2.40	1.92
	55	0.01	89	310	130	IRL3705NPBF-ND◆	4.53	3.02	2.42
	100	0.026	55	190	200	IRL2910PBF-ND◆	3.60	2.40	1.92
	100	0.044	36	120	94	IRL540NPBF-ND◆	2.94	1.89	1.47
	100	0.1	17	60	63	IRL530N-ND	2.88	1.86	1.45
	100	0.1	17	60	63	IRL530NPBF-ND◆	2.31	1.49	1.16
	100	0.18	10	35	47	IRL520NPBF-ND◆	1.89	1.22	.95
	150	0.166	12	48	80	IRL3215PBF-ND◆	2.10	1.35	1.05
TO-220 FULLPAK — RoHS Compliant									
2	30	0.006	76	470	63	IRLI3803PBF-ND	7.38	5.46	4.43
	30	0.007	61	400	47	IRLI2203NPBF-ND	4.65	3.10	2.48
	55	0.008	58	360	63	IRLI2505PBF-ND	6.70	4.96	4.29
	55	0.008	64	390	63	IRFI3205PBF-ND	6.63	4.91	3.98
	55	0.01	52	310	58	IRLI3705NPBF-ND	3.23	2.16	1.73
	55	0.012	49	290	58	IRFI1010NPBF-ND	4.93	2.82	2.26
	55	0.016	36	210	42	IRFIZ48NPBF-ND	5.81	3.32	2.66
	55	0.02	33	180	45	IRFIZ46NPBF-ND	2.76	1.78	1.38
	55	0.022	30	160	45	IRLIZ44NPBF-ND	2.73	1.76	1.37
	55	0.024	31	160	45	IRFIZ44NPBF-ND	2.95	1.90	1.48
	55	0.035	22	110	37	IRLIZ34NPBF-ND	2.25	1.45	1.13
	55	0.04	21	100	21	IRFIZ34NPBF-ND	2.14	1.38	1.08
	55	0.042	19	80	39	IRLIB4343PBF-ND	2.56	1.65	1.28
	55	0.06	14	72	26	IRLIZ24NPBF-ND	2.13	1.37	1.07
	55	0.07	14	—	26	IRFIZ24NPBF-ND	2.01	1.29	1.01
	60	0.012	39	290	43	IRFIZ48VPBF-ND	3.11	2.08	1.66
	60	0.028	20	120	30	IRFIZ34VPBF-ND	2.00	1.29	1.00
	60	0.042	21	100	37	IRFIZ34EPBF-ND	2.38	1.53	1.19

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
2	60	0.071	14	68	29	IRFIZ24EPBF-ND	2.27	1.46	1.14
	100	0.036	24	140	45	IRFI1310NPBF-ND	4.38	2.92	2.34
	100	0.044	20	120	42	IRLI540NPBF-ND	3.11	2.00	1.56
	100	0.1	11	60	33	IRLI530NPBF-ND	2.55	1.64	1.28
	100	0.1	11	60	33	IRLI530NPBF-ND	2.55	1.64	1.28
	100	0.11	11	60	33	IRFI530NPBF-ND	2.24	1.44	1.12
	100	0.18	8.1	35	27	IRLI520NPBF-ND	2.24	1.26	.98
	100	0.2	7.6	38	27	IRFI520NPBF-ND	2.45	1.58	1.23
	150	0.0122	34	130	46	IRFI4228PBF-ND	6.28	4.65	3.77
	150	0.0122	34	140	46	IRFI4321PBF-ND	6.28	4.65	3.77
	150	0.045	41	164	48	IRFIB41N15DPBF-ND	4.11	2.74	2.20
TO-220 FULLPAK Logic Level — RoHS Compliant									
2	100	0.026	31	190	63	IRLI2910PBF-ND	4.80	3.20	2.56
	150	0.085	14	56	45	IRLI3615PBF-ND	3.04	1.96	1.52
SUPER TO-220 Logic Level — RoHS Compliant									
6	30	0.005	179	720	270	IRLBA3803PPBF-ND	4.89	3.26	2.61
	40	0.004	185	740	300	IRLBA1304PPBF-ND	7.15	5.72	4.29
TO-247AC									
3	30	0.0028	210	1000	230	IRFP3703PBF-ND◆	7.25	5.37	4.35
	55	0.008	110	390	150	IRFP064NPBF-ND◆	6.00	4.00	3.20
	55	0.012	81	290	130	IRFP054NPBF-ND◆	7.30	5.41	4.38
	55	0.016	64	210	140	IRFP048NPBF-ND◆	6.37	3.64	2.92
	55	0.024	53	180	100	IRFP044NPBF-ND◆	3.90	2.60	2.08
	55	0.0053	95	640	310	IRFP1405PBF-ND◆	6.26	4.18	3.34
	60	0.0055	130	520	250	IRFP064VPBF-ND◆	6.98	4.66	3.73
	60	0.009	93	360	180	IRFP054VPBF-ND◆	7.00	5.60	4.20
	75	0.0045	209	840	470	IRFP2907PBF-ND◆	11.75	8.70	7.05
	75	0.0045	90	680	310	IRFP2907ZPBF-ND◆	6.25	4.63	3.75
	100	0.014	72	300	190	IRFP4710PBF-ND◆	4.62	3.08	2.47
	100	0.024	46	230	140	IRFP150VPBF-ND◆	4.68	3.12	2.50
	100	0.025	57	180	200	IRFP3710PBF-ND◆	4.80	3.20	2.56
	100	0.036	42	140	140	IRFP150NPBF-ND◆	3.99	2.66	2.13
	100	0.052	33	110	94	IRFP140NPBF-ND◆	5.21	2.98	2.39
	150	0.042	43	150	200	IRFP3415PBF-ND◆	4.76	3.18	2.55
	150	0.012	78	330	310	IRFP4228PBF-ND◆	6.75	5.00	4.05
	150	0.012	78	330	310	IRFP4321PBF-ND◆	6.82	5.05	4.09
	200	0.023	94	380	580	IRFP90N20DPBF-ND◆	9.03	6.69	5.42
	200	0.04	50	200	300	IRFP260NPBF-ND◆	6.00	4.00	3.20
	200	0.075	30	120	214	IRFP250N-ND	7.22	5.35	4.34
	200	0.075	30	120	214	IRFP250NPBF-ND◆	6.93	4.62	3.70
	250	0.03	60	240	430	IRFP4232PBF-ND◆	8.35	6.18	5.01
	250	0.029	57	230	360	IRFP4332PBF-ND◆	6.75	5.00	4.05
TO-262									
4	20	0.006	92	380	79	IRF3711ZCLPBF-ND◆	2.83	1.82	1.42
	20	0.006	92	380	79	IRF3711ZLPBF-ND◆	2.83	1.82	1.42
	20	0.006	110	440	120	IRF3711LPBF-ND◆	3.42	2.20	1.71
	20	0.0079	67	260	57	IRF3704ZLPBF-ND◆	2.31	1.49	1.16
	20	0.0085	77	280	88	IRF3706LPBF-ND◆	2.28	1.47	1.14
	20	0.009	77	308	87	IRF3704LPBF-ND◆	2.80	1.81	1.41
	20	0.011	50	200	45	IRL3715ZLPBF-ND◆	2.25	1.45	1.13
	20	0.016	36	140	35	IRL3714ZLPBF-ND◆	2.11	1.36	1.06
	20	0.02	36	140	47	IRL3714LPBF-ND◆	1.49	.94	.70
	20	0.014	54	210	71	IRL3715LPBF-ND◆	2.19	1.42	1.10
	30	0.0033	75	960	200	IRF1503LPBF-ND◆	4.91	3.27	2.62
	30	0.006	105	420	110	IRL8113LPBF-ND◆	3.37	2.17	1.69
	30	0.006	140	470	200	IRL3803LPBF-ND◆	4.05	2.70	2.16
	30	0.0063	87	350	79	IRF3709ZCLPBF-ND◆	2.84	1.83	1.43
	30	0.0063	87	350	79	IRF3709ZLPBF-ND◆	2.84	1.83	1.43
	30	0.007	116	400	170	IRL2203NLPBF-ND◆	4.83	3.22	2.58
	30	0.009	90	360	120	IRF3709LPBF-ND◆	2.16	1.39	1.08
	30	0.0095	59	230	57	IRF3707ZCLPBF-ND◆	2.47	1.59	1.24
	30	0.0095	59	230	57	IRF3707ZLPBF-ND◆	2.47	1.59	1.24
	30	0.0125	62	248	87	IRF3707LPBF-ND◆	2.28	1.47	1.14
	40	0.002	75	1080	330	IRF2804L-ND	7.09	4.73	3.79
	40	0.0036	170	850	200	IRF2204LPBF-ND◆	3.28	2.19	1.75
	40	0.004	160	640	3.8	IRL1404LPBF-ND◆	3.60	2.40	1.92
	40	0.004	162	650	200	IRF1404LPBF-ND◆	5.07	3.38	2.71
	40	0.0055	75	470	140	IRF4104LPBF-ND◆	3.45	2.22	1.73
	40	0.0065	130	520	200	IRL1004LPBF-ND◆	4.11	2.74	2.20
	40	0.008	104	416	167	IRL1104LPBF-ND◆	3.09	2.06	1.65
	40	0.009	100	40	170	IRF1104LPBF-ND◆	3.06	2.04	1.64
	55	0.0047	135	700	200	IRF2805LPBF-ND◆	3.90	2.60	2.08
	55	0.005	75	600	230	IRF1405ZLPBF-ND◆	4.28	2.86	2.29

◆ **RoHS Compliant**

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
4	55	0.0053	131	680	200	IRF1405LPBF-ND◆	5.07	3.38	2.71
	55	0.007	75	440	170	IRF3205ZLPBF-ND◆	3.12	2.01	1.56
	55	0.075	75	360	140	IRF1010ZLPBF-ND◆	3.01	1.94	1.51
	55	0.008	75	340	130	IRL3705ZLPBF-ND◆	2.65	1.71	1.33
	55	0.008	104	360	200	IRL2505LPBF-ND◆	3.60	2.40	1.92
	55	0.008	110	390	200	IRF3205LPBF-ND◆	4.95	3.30	2.64
	55	0.011	61	240	91	IRFZ48ZLPBF-ND◆	2.24	1.44	1.12
	55	0.014	64	210	130	IRFZ48NLPBF-ND◆	4.80	3.20	2.56
	55	0.0165	53	180	107	IRFZ46NLPBF-ND◆	3.29	2.12	1.65
	55	0.022	47	160	110	IRLZ44NLPBF-ND◆	2.87	1.85	1.44
	55	0.022	49	160	110	IRFZ44NLPBF-ND◆	2.87	1.85	1.44
	55	0.035	30	110	68	IRLZ34NLPBF-ND◆	2.38	1.53	1.19
	55	0.04	29	100	68	IRFZ34NLPBF-ND◆	2.05	1.32	1.03
	55	0.06	18	72	45	IRLZ24NLPBF-ND◆	2.31	1.49	1.16
	55	0.07	17	68	45	IRFZ24NLPBF-ND◆	1.76	1.10	.82
	60	0.0085	75	340	140	IRF1010EZLPBF-ND◆	3.01	1.94	1.51
	60	0.012	57	230	92	IRFZ44VZL-ND	2.24	1.44	1.12
	60	0.012	84	330	170	IRF1010EL-ND	4.80	3.20	2.56
	60	0.012	84	330	170	IRF1010ELPBF-ND◆	4.05	2.70	2.16
	60	0.003	210	840	300	IRFSL3206PBF-ND◆	6.61	4.41	3.53
	60	0.0042	160	620	230	IRFSL3306PBF-ND◆	5.09	3.40	2.72
	60	0.023	48	192	110	IRFZ44ELPBF-ND◆	2.41	1.55	1.21
	60	0.028	30	120	70	IRFZ34VLPBF-ND◆	1.86	1.17	.87
	60	0.06	17	68	44	IRFZ24VLPBF-ND◆	1.89	1.22	.95
	75	0.007	106	550	200	IRF3808LPBF-ND◆	4.11	2.74	2.20
	75	0.0078	100	520	—	IRF1407LPBF-ND◆	4.29	2.86	2.29
	75	0.0033	170	670	300	IRFSL3207ZPBF-ND◆	4.57	3.05	2.44
	75	0.0058	120	480	230	IRFSL3307ZPBF-ND◆	5.09	3.40	2.72
	75	0.0088	97	390	190	IRFSL3507PBF-ND◆	3.27	2.18	1.75
	75	0.009	75	350	170	IRF2807ZLPBF-ND◆	3.40	2.19	1.70
	75	0.0126	62	320	120	IRF3007LPBF-ND◆	2.67	1.72	1.34
	100	0.007	140	550	330	IRFSL4310-ND	6.46	4.70	3.76
	100	0.014	73	290	190	IRFSL4610PBF-ND◆	3.24	2.16	1.73
	100	0.014	75	300	200	IRFSL4710PBF-ND◆	3.46	2.31	1.85
	100	0.018	59	240	160	IRF3710ZLPBF-ND◆	3.17	2.11	1.69
	100	0.025	57	180	200	IRF3710LPBF-ND◆	4.65	3.10	2.48
	100	0.025	59	236	200	IRFSL59N10DPBF-ND◆	3.57	2.38	1.91
	100	0.026	55	190	200	IRL2910LPBF-ND◆	3.60	2.40	1.92
	100	0.0265	36	140	92	IRF540ZLPBF-ND◆	3.08	1.98	1.54
	100	0.036	42	140	160	IRF1310NLPBF-ND◆	4.65	3.10	2.48
	100	0.044	36	120	140	IRL540NLPBF-ND◆	3.29	2.12	1.65
	100	0.052	33	110	140	IRF540NLPBF-ND◆	3.18	2.05	1.60
	100	0.1	17	60	79	IRL530NLPBF-ND◆	2.63	1.69	1.32
	100	0.11	17	600	79	IRF530NLPBF-ND◆	2.13	1.37	1.07
	100	0.165	9.6	37	44	IRF520VLPBF-ND◆	2.10	1.35	1.05
	100	0.18	10	35	48	IRL520NLPBF-ND◆	1.96	1.26	.98
	100	0.2	9.7	38	3.8	IRF520NLPBF-ND◆	1.75	1.13	.88
	150	0.042	43	150	200	IRF3415LPBF-ND◆	5.16	3.44	2.76
	150	0.045	41	164	200	IRF3515LPBF-ND◆	3.73	2.49	2.00
	150	0.056	33	130	170	IRFSL33N15DPBF-ND◆	3.40	2.19	1.71
	150	0.082	21	84	94	IRF3315L-ND	3.79	2.53	2.03
	150	0.082	21	84	94	IRF3315LPBF-ND◆	3.03	2.02	1.62
	150	0.09	23	92	136	IRFSL23N15DPBF-ND◆	3.50	2.25	1.75
	150	0.045	41	164	200	IRFSL41N15DPBF-ND◆	3.42	2.28	1.83
	150	0.012	83	330	330	IRFSL4228PBF-ND◆	13.22	10.29	8.52
	150	0.015	83	330	330	IRFSL4321PBF-ND◆	7.04	4.70	3.76
	200	0.082	31	124	200	IRFSL31N20DPBF-ND◆	4.20	2.80	2.24
	200	0.1	24	96	170	IRFSL23N20DPBF-ND◆	3.47	2.24	1.74
	200	0.15	18	72	150	IRF640NLPBF-ND◆	3.36	2.16	1.68
	200	0.17	16	64	140	IRFSL17N20DPBF-ND◆	3.50	2.25	1.75
	200	0.30	9.3	37	82	IRF630NLPBF-ND◆	2.45	1.58	1.23
	200	0.8	5.2	18	50	IRF620L-ND	1.46	1.17	.88
	250	1.1	4.4	14	50	IRF624L-ND	1.53	1.23	.92
	250	2	2.7	8.0	36	IRF614L-ND	1.24	.99	.74
	300	0.75	6.1	24	74	IRF737LCL-ND	1.76	1.41	1.06
						TO-262 Logic Level — RoHS Compliant			
4	20	.004	180	720	210	IRL3716LPBF-ND	3.47	2.32	1.86
	20	.011	50	200	45	IRL3715ZCLPBF-ND	2.25	1.45	1.13
	30	.0038	150	600	140	IRL7833LPBF-ND	3.46	2.31	1.85
	30	0.014	64	220	110	IRL3103LPBF-ND	3.90	2.60	2.08
	30	0.026	38	140	68	IRL3303LPBF-ND	3.43	2.21	1.72
	55	0.01	89	310	170	IRL3705NLPBF-ND	4.83	3.22	2.58

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
						I-Pak			
5	20	0.0057	93	370	79	IRFU3711ZPBF-ND◆	2.11	1.36	1.06
	20	0.0065	110	440	2.5	IRFU3711PBF-ND◆	2.39	1.54	1.20
	20	0.0084	60	240	48	IRFU3704ZPBF-ND◆	1.77	1.15	.89
	20	0.009	75	280	88	IRFU3706PBF-ND◆	1.75	1.13	.88
	20	0.0095	75	300	90	IRFU3704PBF-ND◆	1.91	1.23	.96
	20	0.014	54	210	71	IRLU3715PBF-ND◆	1.66	1.04	.77
	30	0.0065	86	340	79	IRFU3709ZPBF-ND◆	2.12	1.37	1.06
	30	0.009	90	360	120	IRFU3709PBF-ND◆	2.10	1.35	1.05
	30	0.0095	56	220	50	IRFU3707ZPBF-ND◆	1.80	1.16	.90
	30	0.0125	61	244	87	IRFU3708PBF-ND◆	1.75	1.13	.88
	30	0.013	61	244	87	IRFU3707PBF-ND◆	1.75	1.13	.88
	30	0.031	33	120	57	IRFU3303PBF-ND◆	1.60	1.00	.74
	40	0.0055	42	480	140	IRFU4104PBF-ND◆	3.08	2.06	1.65
	40	0.009	42	310	90	IRFU3504ZPBF-ND◆	2.28	1.47	1.14
	40	0.0092	30	350	140	IRFU3504PBF-ND◆	2.10	1.35	1.05
	55	0.0075	42	360	140	IRFU1010ZPBF-ND◆	3.25	2.09	1.63
	55	0.011	42	250	91	IRFU48ZPBF-ND◆	2.45	1.58	1.23
	55	0.012	42	360	130	IRLU3705ZPBF-ND◆	3.16	2.04	1.59
	55	0.057	26	80	79	IRLU4343PBF-ND◆	1.80	1.13	.84
	55	0.013	30	280	140	IRFU3505PBF-ND◆	2.10	1.35	1.05
	55	0.0135	42	240	110	IRLU2905ZPBF-ND◆	3.30	2.20	1.76
	55	0.0145	42	240	110	IRFU2905ZPBF-ND◆	2.15	1.39	1.08
	55	0.016	56	220	110	IRFU2405PBF-ND◆	2.10	1.35	1.05
	55	0.025	30	120	48	IRFU4105ZPBF-ND◆	1.80	1.13	.84
	55	0.027	44	160	107	IRFU1205PBF-ND◆	3.24	2.09	1.63
	55	0.045	27	100	68	IRFU4105PBF-ND◆	3.15	2.10	1.68
	55	0.058	16	64	35	IRLU024ZPBF-ND◆	1.60	1.00	.74
	55	0.075	17	68	45	IRFU024NPBF-ND◆	1.92	1.20	.89
	55	0.14	10	40	28	IRLU014NPBF-ND◆	1.40	.88	.65
	75	0.026	42	170	110	IRFU2407PBF-ND◆	2.10	1.35	1.05
	80	0.014	70	280	140	IRFU3418PBF-ND◆	3.00	2.00	1.60
	80	0.029	38	150	110	IRFU3518PBF-ND◆	3.00	2.00	1.60
	100	0.018	42	220	140	IRFU3710ZPBF-ND◆	3.18	2.12	1.70
	100	0.025	48	190	140	IRFU3412PBF-ND◆	3.12	2.01	1.56
	100	0.044	32	110	130	IRFU3411PBF-ND◆	1.93	1.24	.97
	100	0.039	31	125	110	IRFU3410PBF-ND◆	1.93	1.24	.97
	100	0.115	14	56	56	IRFU3911PBF-ND◆	2.80	1.80	1.40
	100	0.115	16	60	79	IRFU3910PBF-ND◆	2.73	1.76	1.37
	100	0.190	8.7	35	35	IRFU120ZPBF-ND◆	1.60	1.00	.74
	100	0.2	9.4	38	48	IRFU120N-ND	1.93	1.24	.97
	100	0.2	9.4	38	48	IRFU120NPBF-ND◆	1.76	1.10	.82
	150	0.095	24	96	140	IRFU24N15DPBF-ND◆	2.10	1.35	1.05
	150	0.125	18	72	110	IRFU18N15DPBF-ND◆	2.10	1.35	1.05
	200	0.165	17	68	140	IRFU15N20DPBF-ND◆	2.10	1.35	1.05
	200	0.235	13	52	110	IRFU13N20DPBF-ND◆	2.24	1.44	1.12
	200	0.38	9.4	38	86	IRFU9N20DPBF-ND◆	2.24	1.44	1.12
	200	0.6	5	20	43	IRFU220NPBF-ND◆	1.60	1.00	.74
	250	0.26	14	56	144	IRFU12N25DPBF-ND◆	2.49	1.60	1.25
						I-Pak Logic Level — RoHS Compliant			
5	12	0.0085	84	320	88	IRLU3802PBF-ND	2.05	1.33	1.03
	20	0.004	120	460	89	IRLU3717PBF-ND	2.57	1.65	1.29
	20	0.011	49	200	40	IRLU3715ZPBF-ND	1.78	1.12	.83
	20	0.015	37	144	35	IRLU3714ZPBF-ND	1.71	1.07	.80
	20	0.02	36	140	47	IRLU3714PBF-ND	1.60	1.00	.74
	30	0.0033	161	620	140	IRLU7843PBF-ND	3.41	2.19	1.71
	30	0.0066	94	380	89	IRLU8113PBF-ND	2.63	1.69	1.32
	30	0.0068	110	120	140	IRLU8203PBF-ND	2.40	1.55	1.21
	30	0.01	65	260	75	IRLU7821PBF-ND	1.95	1.26	.98
	30	0.0138	43	170	40	IRLU7807ZPBF-ND	1.76	1.11	.82
	30	0.019	55	220	107	IRLU3103PBF-ND	3.60	2.40	1.92
	30	0.031	35	140	68	IRLU3303PBF-ND	2.35	1.51	1.18
	30	0.045	23	96	45	IRLU2703PBF-ND	1.52	.95	.71
	55	0.014	30	240	120	IRLU3915PBF-ND	1.93	1.24	.97
	55	0.027	42	160	110	IRLU2905PBF-ND	3.30	2.20	1.76
	55	0.037	25	100	57	IRLU3105PBF-ND	1.60	1.00	.74
	55	0.04	24	110	68	IRLU2705PBF-ND	1.93	1.24	.97
	55	0.065	17	72	45	IRLU024NPBF-ND	1.80	1.13	.84
	80	0.028	30	150	120	IRLU2908PBF-ND	2.10	1.35	1.05
	100	0.105	17	60	79	IRLU3410PBF-ND	1.99	1.28	1.00
	100	0.185	10	35	48	IRLU120NPBF-ND	1.76	1.10	.82
						Super-220 — RoHS Compliant			
6	40	0.0037	206	650	300	IRFBA1404PPBF-ND	7.50	5.00	4.00
	55	0.005	174	680	330	IRFBA1405PPBF-ND	7.50	5.00	4.00
	200	0.023	98	390	650	IRFBA90N20DPBF-ND	12.37	9.63	7.98
						Super-247 — RoHS Compliant			
7	100	0.009	170	670	580	IRFPS3810PBF-ND	11.92	9.28	7.69
	150	0.015	105	390	441	IRFPS3815PBF-ND	13.16	10.82	8.48

◆ *RoHS Compliant*

N and P Channel Surface Mount HEXFETs

Multiple pin out configurations available see Digi-Key website for data sheets.

Dimensions in mm

Fig. 1 — D²Pak

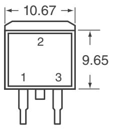

Fig. 2 — DPak

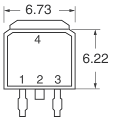

Fig. 3 — Micro-3™ (SOT-23)

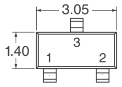

Fig. 4 — Micro-6™/TSOP-6 Surface Mount

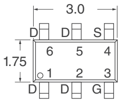

Fig. 5 — Micro-8™ Outline

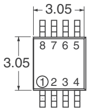

Fig. 6 — SO-8/SOIC-8

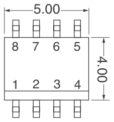

Fig. 7 — FlipFET™

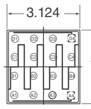

Fig. 8 — D²Pak-7

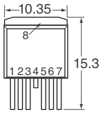

Fig. 9 — SOT-223

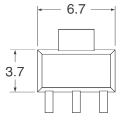

Fig. 10 — DirectFET™

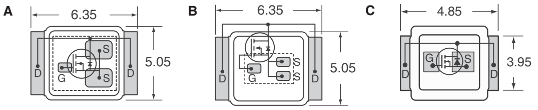

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
P-CHANNEL TYPES									
D²Pak									
1	-55	0.10	-19	-68	3.8	IRF9Z34NSTRL-ND		1260.00/800	
	-55	0.10	-19	-68	3.8	IRF9Z34NSTRLPBFCT-ND◆ ***NEW!***	3.04	1.96	1.53
	-55	0.10	-19	-68	3.8	IRF9Z34NSTRLPBFTR-ND◆ ***NEW!***		572.80/800	
	-55	0.06	-31	-110	3.8	IRF5305STRLPBFCT-ND◆ ***NEW!***	2.80	1.80	1.40
	-55	0.06	-31	-110	3.8	IRF5305STRLPBFTR-ND◆ ***NEW!***		685.60/800	
	-100	0.117	-23	-76	3.8	IRF9540NS-ND	4.42	2.95	2.36
	-100	0.117	-23	-76	3.8	IRF9540NSTRL-ND		1651.20/800	
DPak (TO-252AA)									
2	-55	0.065	-31	-110	110	IRFR5305-ND	2.75	1.77	1.38
	-55	0.065	-31	-110	110	IRFR5305PBFCT-ND◆	2.20	1.42	1.10
	-55	0.065	-31	-110	110	IRFR5305PBFTR-ND◆		1216.00/2,000	
	-55	0.11	-18	-64	57	IRFR5505-ND	1.66	1.33	.96
	-55	0.11	-18	-64	57	IRFR5505PBFCT-ND◆	1.86	1.20	.93
	-55	0.11	-18	-64	57	IRFR5505PBFTR-ND◆		1020.00/2,000	
	-55	0.175	-11	-44	38	IRFR9024N-ND	1.75	1.13	.88
	-55	0.175	-11	-44	38	IRFR9024NPBFCT-ND◆	1.60	1.00	.74
	-55	0.175	-11	-44	38	IRFR9024NPBFTR-ND◆		826.00/2,000	
	-100	0.205	-13	-52	66	IRFR5410-ND	3.64	2.43	1.95
	-100	0.205	-13	-52	66	IRFR5410PBFCT-ND◆	3.40	2.19	1.70
	-100	0.205	-13	-52	66	IRFR5410PBFTR-ND◆		1108.00/2,000	
	-100	0.48	-6.6	-26	40	IRFR9120N-ND	1.75	1.13	.88
	-100	0.48	-6.6	-26	40	IRFR9120NPBFCT-ND◆	1.60	1.00	.74
	-100	0.48	-6.6	-26	40	IRFR9120NPBFTR-ND◆		844.00/2,000	
Micro-3™ (SOT-23) Logic Level - RoHS Compliant									
3	-12	0.05	-4.3	-34	1.3	IRLML6401PBFCT-ND	1.13	.66	.44
	-12	0.05	-4.3	-34	1.3	IRLML6401PBFTR-ND		486.00/3,000	
	-20	0.065	-3.7	-22	1.3	IRLML6402PBFCT-ND	.82	.48	.32
	-20	0.065	-3.7	-22	1.3	IRLML6402PBFTR-ND		492.00/3,000	
	-20	0.6	-0.62	-4.9	0.54	IRLML6302PBFCT-ND	1.13	.66	.44
	-20	0.6	-0.62	-4.9	0.54	IRLML6302PBFTR-ND		384.00/3,000	
	-30	0.6	-0.61	-4.8	0.54	IRLML5103PBFCT-ND	.57	.33	.22
	-30	0.6	-0.61	-4.8	0.54	IRLML5103PBFTR-ND		384.00/3,000	
Micro-6™ (TSOP-6)									
4	-20	0.065	-4.4	-20	2	SI3443DVCT-ND	1.35	.85	.63
	-20	0.065	-4.4	-20	2	SI3443DVTR-ND		1419.60/3,000	
Micro-6™ (TSOP-6) Logic Level - RoHS Compliant									
4	-20	0.05	-5.6	-45	2	IRLMS6802PBFCT-ND	1.24	.72	.48
	-20	0.05	-5.6	-45	2	IRLMS6802PBFTR-ND		780.00/3,000	
	-20	0.2	-2.3	-13	1.7	IRLMS6702PBFCT-ND	1.28	.80	.60
	-20	0.2	-2.3	-13	1.7	IRLMS6702PBFTR-ND		690.00/3,000	
	-30	0.2	-2.3	-13	1.7	IRLMS5703PBFCT-ND	1.26	.79	.59
	-30	0.2	-2.3	-13	1.7	IRLMS5703PBFTR-ND		681.00/3,000	
NEW! Micro-8™ (SOIC-8) - RoHS Compliant NEW!									
5	-30	0.040	-7.0	-28	1.79	IRF7726TRPBFCT-ND	1.84	1.15	.86
	-30	0.040	-7.0	-28	1.79	IRF7726TRPBFTR-ND		2408.00/4,000	
Micro-8™ Logic Level									
5	-20	0.040	-8.2	-66	1.8	IRF7663CT-ND	3.06	1.97	1.54
	-20	0.040	-8.2	-66	1.8	IRF7663TR-ND		4724.00/4,000	
	-20	0.040	-8.2	-66	1.8	IRF7663TRPBFCT-ND◆ ***NEW!***	2.45	1.58	1.23
	-20	0.040	-8.2	-66	1.8	IRF7663TRPBFTR-ND◆ ***NEW!***		3596.00/4,000	
	-20	0.09	-3.6	-19	1.8	IRF7604CT-ND	3.46	2.23	1.73
	-20	0.09	-3.6	-19	1.8	IRF7604TR-ND		5336.00/4,000	
	-30	0.15	-3.6	-29	1.8	IRF7606CT-ND	3.46	2.23	1.73
	-30	0.15	-3.6	-29	1.8	IRF7606TR-ND		5336.00/4,000	
	-30	0.15	-3.6	-29	1.8	IRF7606TRPBFCT-ND◆ ***NEW!***	2.77	1.78	1.39
	-30	0.15	-3.6	-29	1.8	IRF7606TRPBFTR-ND◆ ***NEW!***		3980.00/4,000	
	-20	0.27	-1.7	-14	1.25	IRF7524D1CT-ND	2.91	1.87	1.46
Micro-8™ Dual Logic Level									
5	-20	0.40	-1.7	-9.6	1.25	IRF7504TRPBFCT-ND◆ ***NEW!***	2.45	1.58	1.23
	-20	0.40	-1.7	-9.6	1.25	IRF7504TRPBFTR-ND◆ ***NEW!***		1200.00/4,000	
	-20	0.105	-4.3	-34	1.25	IRF7555TRPBFCT-ND◆ ***NEW!***	2.45	1.58	1.23
	-20	0.105	-4.3	-34	1.25	IRF7555TRPBFTR-ND◆ ***NEW!***		3780.00/4,000	
	-30	0.27	-1.7	-9.6	1.25	IRF7506CT-ND	2.76	1.78	1.38
	-30	0.27	-1.7	-9.6	1.25	IRF7506TR-ND		4256.00/4,000	

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
SOIC-8									
6	-12	0.007	-16	-65	2.5	IRF7410-ND	3.56	2.38	1.91
	-12	0.014	-11.5	-46	2.5	IRF7420PBFCT-ND◆	2.77	1.78	1.39
	-12	0.014	-11.5	-46	2.5	IRF7420PBFTR-ND◆		4268.00/4,000	
	-12	0.020	±9.5	±76	2.5	IRF7233PBFCT-ND◆	4.14	2.76	2.21
	-12	0.020	±9.5	±76	2.5	IRF7233PBFTR-ND◆		7176.00/4,000	
	-12	0.024	-8.9	-36	2.5	IRF7433PBFCT-ND◆	2.56	1.65	1.28
	-12	0.024	-8.9	-36	2.5	IRF7433PBFTR-ND◆		3944.00/4,000	
	-20	0.06	-5.4	-43	2.5	IRF7207PBFCT-ND◆	3.75	2.50	2.00
	-20	0.06	-5.4	-43	2.5	IRF7207PBFTR-ND◆		6500.00/4,000	
	-30	0.013	-11	-47	2.5	IRF7424-ND	3.12	2.01	1.56
	-30	0.013	-11	-47	2.5	IRF7424PBFCT-ND◆	2.59	1.67	1.30
	-30	0.013	-11	-47	2.5	IRF7424PBFTR-ND◆		2476.00/4,000	
	-30	0.035	-10	-45	2.5	IRF7416-ND	4.31	2.88	2.31
	-40	0.015	-10.5	-43	2.5	IRF7240-ND	5.18	3.45	2.76
	-40	0.041	-6.2	-25	2.5	IRF7241PBFCT-ND◆	2.73	1.76	1.37
	-40	0.041	-6.2	-25	2.5	IRF7241PBFTR-ND◆		1648.00/4,000	
SOIC-8 Logic Level									
6	-14	0.012	-11	-88	2.5	IRF7220PBFCT-ND◆	3.39	2.26	1.81
	-14	0.012	-11	-88	2.5	IRF7220PBFTR-ND◆		1936.00/4,000	
	-20	0.04	-6.7	-27	2.5	IRF7404-ND	3.56	2.38	1.91
	-20	0.04	-6.7	-27	2.5	IRF7404PBFCT-ND◆	3.30	2.20	1.76
	-20	0.04	-6.7	-27	2.5	IRF7404PBFTR-ND◆		1916.00/4,000	
	-20	0.06	-5.3	-21	1.6	IRF7204CT-ND	3.00	2.00	1.60
	-20	0.06	-5.3	-21	1.6	IRF7204TR-ND		5400.00/4,000	
	-20	0.06	-5.3	-21	1.6	IRF7204PBFCT-ND◆	2.80	1.80	1.40
	-20	0.06	-5.3	-21	1.6	IRF7204PBFTR-ND◆		1324.00/4,000	
	-30	0.02	-8	-50	2.5	SI4435DYPBFCT-ND◆	2.10	1.35	1.05
	-30	0.02	-8	-50	2.5	SI4435DYPBFTR-ND◆		1592.00/4,000	
	-30	0.045	-5.8	-23	2.5	IRF7406-ND	4.13	2.75	2.20
	-30	0.045	-5.8	-23	2.5	IRF7406PBFCT-ND◆	3.30	2.20	1.76
	-30	0.045	-5.8	-23	2.5	IRF7406PBFTR-ND◆		1712.00/4,000	
	-30	0.035	-10	-45	2.5	IRF7416TR-ND		7476.00/4,000	
	-30	0.035	-10	-45	2.5	IRF7416TRPBFCT-ND◆ ***NEW!***	3.45	2.30	1.84
	-30	0.035	-10	-45	2.5	IRF7416TRPBFTR-ND◆ ***NEW!***		2252.00/4,000	
	-30	0.035	-10	-45	2.5	IRF7416PBF-ND◆	3.45	2.30	1.84
	-30	0.07	-5.3	—	2.5	IRF7205-ND	3.19	2.13	1.71
	-30	0.07	-5.3	—	2.5	IRF7205PBFCT-ND◆	2.73	1.76	1.37
	-30	0.07	-5.3	—	2.5	IRF7205PBFTR-ND◆		1352.00/4,000	
SOIC-8 Dual Logic Level									
6	-12	0.017	-9.2	-37	2.0	IRF7329-ND	3.38	2.25	1.80
	-12	0.017	-9.2	-37	2.0	IRF7329PBFCT-ND◆	3.15	2.03	1.58
	-12	0.017	-9.2	-37	2.0	IRF7329PBFTR-ND◆		2072.00/4,000	
	-12	0.024	-7.8	-39	2.0	IRF7325PBFCT-ND◆	2.94	1.89	1.47
	-12	0.024	-7.8	-39	2.0	IRF7325PBFTR-ND◆		4532.00/4,000	
	-20	0.018	-9	-71	2.0	IRF7324PBFCT-ND◆	3.39	2.26	1.81
	-20	0.018	-9	-71	2.0	IRF7324PBFTR-ND◆		3188.00/4,000	
	-20	0.058	-5.3	-21	2.0	IRF7314-ND	4.31	2.88	2.31
	-20	0.058	-5.3	-21	2.0	IRF7314PBFCT-ND◆	3.45	2.30	1.84
	-20	0.058	-5.3	-21	2.0	IRF7314PBFTR-ND◆		2200.00/4,000	
	-20	0.09	-4.3	-17	2.0	IRF7304-ND	1.86	1.20	.93
	-20	0.09	-4.3	-17	2.0	IRF7304PBFCT-ND◆	2.80	1.80	1.40
	-20	0.09	-4.3	-17	2.0	IRF7304PBFTR-ND◆		1652.00/4,000	
	-20	0.25	-2.3	-10	2.0	IRF7104-ND	3.06	1.97	1.54
	-20	0.25	-2.3	-10	2.0	IRF7104PBFCT-ND◆	2.56	1.65	1.28
	-20	0.25	-2.3	-10	2.0	IRF7104PBFTR-ND◆		1316.00/4,000	
	-30	0.021	-8.0	-32	2.0	IRF7328-ND	3.38	2.25	1.80
	-30	0.021	-8.0	-32	2.0	IRF7328PBFCT-ND◆	3.15	2.03	1.58
	-30	0.021	-8.0	-32	2.0	IRF7328PBFTR-ND		4132.00/4,000	
	-30	0.058	-4.9	-30	2.0	IRF7316-ND	4.31	2.88	2.31
	-30	0.058	-4.9	-30	2.0	IRF7316PBFCT-ND◆	3.45	2.30	1.84
	-30	0.058	-4.9	-30	2.0	IRF7316PBFTR-ND◆		2056.00/4,000	
	-30	0.1	-3.6	-14	2.0	IRF7306PBFCT-ND◆	2.98	1.92	1.49
	-30	0.1	-3.6	-14	2.0	IRF7306TR-ND		5740.20/4,000	
	-30	0.1	-3.6	-14	2.0	IRF7306PBFTR-ND◆		1916.00/4,000	
	-30	0.25	-2.3	-10	2.0	IRF9953PBFCT-ND◆	2.45	1.58	1.23
	-30	0.25	-2.3	-10	2.0	IRF9953PBFTR-ND◆		1336.00/4,000	
	-55	0.105	-3.4	-27	2.0	IRF7342PBFCT-ND◆	1.89	1.22	.95
	-55	0.105	-3.4	-27	2.0	IRF7342PBFTR-ND◆		2096.00/4,000	

◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
SOIC-8 "Fetky™" Mosfet and Schottky Diode — RoHS Compliant									
6	-20	0.18	-2.2	-23	2.0	IRF7324D1PBFCT-ND	4.24	2.83	2.27
	-20	0.18	-2.2	-23	2.0	IRF7324D1PBFTR-ND	7348.00/4,000		
	-20	0.058	-5.3	-43	2.0	IRF7322D1PBFCT-ND	4.24	2.83	2.27
	-20	0.058	-5.3	-43	2.0	IRF7322D1PBFTR-ND	7348.00/4,000		
	-30	0.062	-4.7	-38	2.0	IRF7321D2PBFCT-ND	2.07	1.33	1.04
	-30	0.062	-4.7	-38	2.0	IRF7321D2PBFTR-ND	3304.00/4,000		
SOIC-8 "Fetky™" Mosfet and Schottky Diode Logic Level									
6	-30	0.16	-3.6	-29	2.0	IRF7326D2TRPBFCT-ND◆ ***NEW!***	2.87	1.85	1.44
	-30	0.16	-3.6	-29	2.0	IRF7326D2TRPBFTR-ND◆ ***NEW!***	4424.00/4,000		
	-20	0.09	-4.3	-18	2.0	IRF7422D2-ND	3.07	1.98	1.54
	-20	0.09	-4.3	-18	2.0	IRF7422D2PBFCT-ND◆	2.49	1.61	1.25
	-20	0.09	-4.3	-18	2.0	IRF7422D2PBFTR-ND◆	2488.00/4,000		
FlipFET™									
7	-20	0.036	±7.1	±40	3.0	IRF6150CT-ND	2.95	2.06	1.59
	-20	0.036	±7.1	±40	3.0	IRF6150TR-ND	5024.00/4,000		
N-CHANNEL TYPES									
D^2Pak									
1	20	0.0111	67	260	57	IRF3704ZCS-ND	3.06	1.97	1.53
	20	0.0135	77	308	87	IRF3704S-ND	3.00	2.01	1.61
	20	0.0135	77	308	87	IRF3704STRLPBFCT-ND◆ ***NEW!***	2.80	1.81	1.41
	20	0.0135	77	308	87	IRF3704STRLPBFTR-ND◆ ***NEW!***	928.80/800		
	20	0.0085	110	440	3.1	IRF3711STRLPBFCT-ND◆ ***NEW!***	3.05	2.04	1.63
	20	0.0085	110	440	3.1	IRF3711STRLPBFTR-ND◆ ***NEW!***	1180.80/800		
	30	0.010	116	400	3.8	IRL2203NSTRL-ND	2252.00/800		
	30	0.010	116	400	3.8	IRL2203NSTRLPBFCT-ND◆ ***NEW!***	4.83	3.22	2.58
	30	0.010	116	400	3.8	IRL2203NSTRLPBFTR-ND◆ ***NEW!***	872.00/800		
	40	0.002	75	1080	330	IRF2804S-ND	7.09	4.73	3.79
	40	0.0036	170	850	200	IRF2204SPBF-ND◆	3.28	2.19	1.75
	40	0.004	160	640	3.8	IRL1404STRLPBFCT-ND◆ ***NEW!***	5.10	3.40	2.72
	40	0.004	160	640	3.8	IRL1404STRLPBFTR-ND◆ ***NEW!***	1903.20/800		
	40	0.004	162	650	3.8	IRF1404STRLPBFCT-ND◆ ***NEW!***	5.07	3.38	2.71
	40	0.004	162	650	3.8	IRF1404STRLPBFTR-ND◆ ***NEW!***	1399.20/800		
	40	0.0055	75	470	140	IRF4104SPBF-ND◆	3.45	2.22	1.73
	55	0.008	110	390	200	IRF3205STRLPBFCT-ND◆ ***NEW!***	4.95	3.30	2.64
	55	0.008	110	390	200	IRF3205STRLPBFTR-ND◆ ***NEW!***	964.00/800		
	55	0.0053	131	680	200	IRF1405STRLPBFCT-ND◆ ***NEW!***	5.07	3.38	2.71
	55	0.0053	131	680	200	IRF1405STRLPBFTR-ND◆ ***NEW!***	1346.40/800		
	55	0.011	85	290	180	IRF1010NSTRLPBFCT-ND◆ ***NEW!***	4.35	2.90	2.32
	55	0.011	85	290	180	IRF1010NSTRLPBFTR-ND◆ ***NEW!***	834.40/800		
	55	0.0136	51	200	82	IRFZ46ZSPBF-ND◆	2.12	1.37	1.07
	55	0.0139	51	200	80	IRFZ44ZSPBF-ND◆	2.09	1.35	1.05
	55	0.011	61	240	91	IRFZ48ZSPBF-ND◆	2.24	1.44	1.12
	55	0.04	29	100	68	IRFZ34NSTRL-ND	911.76/800		
	55	0.0175	49	160	3.8	IRFZ44NSTRL-ND	1188.00/800		
	55	0.0175	49	160	3.8	IRFZ44NSTRLPBFCT-ND◆ ***NEW!***	2.87	1.85	1.44
	55	0.0175	49	160	3.8	IRFZ44NSTRLPBFTR-ND◆ ***NEW!***	657.60/800		
	55	0.0165	53	180	3.8	IRFZ46NSTRLPBFCT-ND◆ ***NEW!***	3.29	2.12	1.65
	55	0.0165	53	180	3.8	IRFZ46NSTRLPBFTR-ND◆ ***NEW!***	1089.60/800		
	55	0.014	64	210	3.8	IRFZ48NSTRLPBFCT-ND◆ ***NEW!***	2.40	1.55	1.20
	55	0.014	64	210	3.8	IRFZ48NSTRLPBFTR-ND◆ ***NEW!***	744.00/800		
	60	0.0085	75	340	140	IRF1010EZSPBF-ND◆	3.26	2.10	1.64
	60	0.012	84	330	200	IRF1010ESTRLPBFCT-ND◆ ***NEW!***	4.05	2.70	2.16
	60	0.012	84	330	200	IRF1010ESTRLPBFTR-ND◆ ***NEW!***	1512.00/800		
	60	0.003	210	840	300	IRFS3206PBF-ND◆	6.66	4.44	3.56
	60	0.0042	160	620	230	IRFS3306PBF-ND◆	5.13	3.43	2.74
	60	0.028	30	120	70	IRFZ34VSPBF-ND◆	1.86	1.17	.87
	60	0.06	17	68	44	IRFZ24VSPBF-ND◆	1.72	1.08	.80
	75	0.013	82	280	230	IRF2807STRLPBFCT-ND◆ ***NEW!***	3.00	2.00	1.60
	75	0.013	82	280	230	IRF2807STRLPBFTR-ND◆ ***NEW!***	1018.40/800		
	75	0.0045	180	720	330	IRFS3207-ND	9.11	6.63	5.31
	75	0.0041	170	670	300	IRFS3207ZPBF-ND◆	6.60	4.40	3.52
	75	0.0058	120	480	230	IRFS3307ZPBF-ND◆	5.13	3.43	2.74
	75	0.0078	100	520	3.8	IRF1407SPBF-ND◆	4.29	2.86	2.29
	75	0.0126	62	320	120	IRF3007SPBF-ND◆	2.67	1.72	1.34
	100	0.015	80	320	260	IRF8010SPBF-ND◆	3.66	2.44	1.96
	100	0.036	42	140	3.8	IRF1310NSTRL-ND	2100.00/800		
	100	0.036	42	140	3.8	IRF1310NSTRLPBFCT-ND◆ ***NEW!***	4.50	3.00	2.40
	100	0.036	42	140	3.8	IRF1310NSTRLPBFTR-ND◆ ***NEW!***	851.20/800		
	100	0.023	57	180	200	IRF3710STRLPBFCT-ND◆ ***NEW!***	4.65	3.10	2.48
	100	0.023	57	180	200	IRF3710STRLPBFTR-ND◆ ***NEW!***	1736.00/800		
	100	0.044	33	110	130	IRF540NSTRL-ND	1317.76/800		
	100	0.044	33	110	130	IRF540NSTRLPBFCT-ND◆ ***NEW!***	3.18	2.05	1.60
	100	0.044	33	110	130	IRF540NSTRLPBFTR-ND◆ ***NEW!***	716.80/800		
	100	0.044	33	110	130	IRF540NSTRR-ND	1317.76/800		
	100	0.090	17	60	3.8	IRF530NSTRL-ND	839.20/800		
	100	0.090	17	60	3.8	IRF530NSTRLPBFCT-ND◆ ***NEW!***	1.96	1.26	.98
	100	0.090	17	60	3.8	IRF530NSTRLPBFTR-ND◆ ***NEW!***	595.20/800		
	100	0.090	17	60	3.8	IRF530NSTRR-ND	810.84/800		
	100	0.165	9.6	37	44	IRF520VSPBF-ND◆	1.88	1.18	.87
	150	0.012	83	330	330	IRFS4228PBF-ND◆	13.22	10.29	8.52
	150	0.015	83	330	330	IRFS4321PBF-ND◆	12.48	9.24	7.49
	150	0.032	60	240	3.8	IRFS52N15DPBF-ND◆	5.10	3.40	2.72
	150	0.042	43	150	3.8	IRF3415STRLPBFCT-ND◆ ***NEW!***	5.16	3.44	2.76
	150	0.042	43	150	3.8	IRF3415STRLPBFTR-ND◆ ***NEW!***	1183.20/800		
	150	0.045	41	164	200	IRF3515STRLPBFCT-ND◆ ***NEW!***	3.82	2.55	2.04
	150	0.045	41	164	200	IRF3515STRLPBFTR-ND◆ ***NEW!***	1424.80/800		
	150	0.082	21	84	3.8	IRF3315SPBF-ND◆	3.54	2.28	1.62
	200	0.082	31	124	200	IRFS31N20D-ND	5.25	3.50	2.80
	200	0.15	18	72	150	IRF640NSTRLPBFCT-ND◆ ***NEW!***	3.36	2.16	1.68
	200	0.15	18	72	150	IRF640NSTRLPBFTR-ND◆ ***NEW!***	793.60/800		
	200	0.15	18	72	150	IRF640NSTRR-ND	1390.84/800		
	200	0.30	9.3	37	82	IRF630NSTRL-ND	998.76/800		
	200	0.30	9.3	37	82	IRF630NSTRLPBFCT-ND◆ ***NEW!***	2.41	1.55	1.21
	200	0.30	9.3	37	82	IRF630NSTRLPBFTR-ND◆ ***NEW!***	799.20/800		
	250	0.002	2.7	8	36	IRF614SPBF-ND◆	1.96	1.26	.98
	600	0.75	9.2	37	170	IRFS9N60A-ND	4.87	3.25	2.60

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
D^2Pak-7									
8	24	0.0008	429	1640	300	IRF1324S-7PPBF-ND◆	5.16	3.44	2.76
	55	0.0026	160	1000	300	IRF3805S-7P-ND	7.22	5.35	4.34
	75	0.0038	160	700	300	IRF2907ZS-7PPBF-ND◆	5.01	3.64	2.92
D^2Pak Logic Level									
1	20	0.016	36	140	35	IRL3714ZSCTL-ND	3.13	2.01	1.57
	20	0.016	36	140	35	IRL3714ZSTRL-ND	1035.88/800		
	20	0.007	110	420	140	IRL3502STRL-ND	1595.20/800		
	30	0.009	140	470	3.8	IRL3803STRLPBFCT-ND◆ ***NEW!***	4.05	2.70	2.16
	30	0.009	140	470	3.8	IRL3803STRLPBFTR-ND◆ ***NEW!***	1183.20/800		
	55	0.105	18	72	3.8	IRLZ24NSTRLPBFCT-ND◆ ***NEW!***	2.31	1.49	1.16
	55	0.105	18	72	3.8	IRLZ24NSTRLPBFTR-ND◆ ***NEW!***	547.20/800		
	55	0.035	47	160	3.8	IRLZ44NSTRL-ND	1188.80/800		
	55	0.035	47	160	3.8	IRLZ44NSTRLPBFCT-ND◆ ***NEW!***	2.87	1.85	1.44
	55	0.035	47	160	3.8	IRLZ44NSTRLPBFTR-ND◆ ***NEW!***	951.20/800		
	55	0.035	30	110	3.8	IRLZ34NSTRL-ND	984.80/800		
	60	0.10	14	56	2.5	IRLR024-ND	2.37	1.53	1.19
	100	0.040	55	190	3.8	IRL2910STRLPBFCT-ND◆ ***NEW!***	3.60	2.40	1.92
	100	0.040	55	190	3.8	IRL2910STRLPBFTR-ND◆ ***NEW!***	1112.80/800		
	100	0.063	36	120	3.8	IRL540NSTRLCT-ND	3.41	2.28	1.82
	100	0.063	36	120	3.8	IRL540NSTRLTR-ND	1317.60/800		
	100	0.063	36	120	3.8	IRL540NSTRLPBFCT-ND◆ ***NEW!***	3.18	2.05	1.60
	100	0.063	36	120	3.8	IRL540NSTRLPBFTR-ND◆ ***NEW!***	756.00/800		
	100	0.150	17	60	3.8	IRL530NSTRL-ND	956.00/800		
	100	0.150	17	60	3.8	IRL530NSTRLPBFCT-ND◆ ***NEW!***	2.31	1.49	1.16
	100	0.150	17	60	3.8	IRL530NSTRLPBFTR-ND◆ ***NEW!***	595.20/800		
	100	0.10	17	60	3.8	IRL530NSTRR-ND	956.00/800		
	100	0.18	10	35	3.8	IRL520NSPBF-ND◆	1.85	1.19	.93
DPak									
2	20	0.006	100	440	2.5	IRFR3711PBFCT-ND◆	2.30	1.49	1.16
	20	0.006	100	440	2.5	IRFR3711PBFTR-ND◆	1270.00/2,000		
	20	0.006	93	370	79	IRFR3711ZPBFCT-ND◆	2.33	1.50	1.17
	20	0.006	93	370	79	IRFR3711ZPBFTR-ND◆	1288.00/2,000		
	20	0.0084	60	240	48	IRFR3704ZTR-ND	1990.00/2,000		
	20	0.009	75	300	90	IRFR3704PBFCT-ND◆	2.21	1.43	1.11
	20	0.009	75	300	90	IRFR3704PBFTR-ND◆	1764.00/2,000		
	20	0.009	75	280	88	IRFR3706PBFCT-ND◆	2.34	1.51	1.18
	20	0.009	75	280	88	IRFR3706PBFTR-ND◆	1800.00/2,000		
	30	0.0095	56	220	50	IRFR3707ZPBFCT-ND◆	1.90	1.23	.96
	30	0.0095	56	220	50	IRFR3707ZPBFTR-ND◆	1064.00/2,000		
	30	0.0065	86	340	79	IRFR3709Z-ND	3.07	1.75	1.44
	30	0.0065	86	340	79	IRFR3709ZPBFCT-ND◆	2.32	1.50	1.17
	30	0.0065	86	340	79	IRFR3709ZPBFTR-ND◆	1840.00/2,000		
	30	0.013	61	244	87	IRFR3707PBFCT-ND◆	1.97	1.27	.99
	30	0.013	61	244	87	IRFR3707PBFTR-ND◆	1194.00/2,000		
	30	0.031	33	120	57	IRFR3303PBFCT-ND◆	1.88	1.18	.88
	30	0.031	33	120	57	IRFR3303PBFTR-ND◆	1342.00/2,000		
	40	0.0055	42	480	140	IRFR4104PBFCT-ND◆	3.22	2.15	1.72
	40	0.0055	42	480	140	IRFR4104PBFTR-ND◆	3004.00/2,000		
	40	0.009	42	310	90	IRFR3504Z-ND	3.19	2.10	1.60
	40	0.009	42	310	90	IRFR3504ZPBFCT-ND◆	2.55	1.64	1.28
	40	0.009	42	310	90	IRFR3504ZPBFTR-ND◆	2038.00/2,000		
	55	0.0135	42	240	110	IRLR2905ZPBF-ND◆	2.72	1.75	1.36
	55	0.0145	42	240	110	IRFR2905Z-ND	2.76	1.83	1.39
	55	0.0145	42	240	110	IRFR2905ZPBFCT-ND◆	2.28	1.47	1.14
	55	0.0145	42	240	110	IRFR2905ZPBFTR-ND◆	1818.00/2,000		
	55	0.016	56	220	110	IRFR2405-ND	3.13	2.09	1.68
	55	0.016	56	220	110	IRFR2405PBFCT-ND◆	2.92	1.88	1.47
	55	0.016	56	220	110	IRFR2405PBFTR-ND◆	1366.00/2,000		
	55	0.025	30	120	48	IRFR4105ZPBFCT-ND◆	1.90	1.23	.96
	55	0.025	30	120	48	IRFR4105ZPBFTR-ND◆	1484.00/2,000		
	55	0.027	44	160	107	IRFR1205PBFCT-ND◆	3.30	2.20	1.76
	55	0.027	44	160	107	IRFR1205PBFTR-ND◆	1270.00/2,000		
	55	0.045	27	100	68	IRFR4105PBFCT-ND◆	3.15	2.10	1.68
	55	0.045	27	100	68	IRFR4105PBFTR-ND◆	960.00/2,000		
	55	0.075	17	68	38	IRFR024N-ND	1.75	1.13	.88
	55	0.075	17	68	38	IRFR024NPBFCT-ND◆	1.60	1.00	.74
	55	0.075	17	68	38	IRFR024NPBFTR-ND◆	766.00/2,000		
	75	0.022	42	180	110	IRFR2607ZPBF-ND◆	2.28	1.47	1.14
	75	0.026	42	170	110	IRFR2407-ND	3.16	2.11	1.69
	75	0.026	42	170	110	IRFR2407PBFCT-ND◆	2.95	1.90	1.48
	75	0.026	42	170	110	IRFR2407PBFTR-ND◆	1672.00/2,000		
	100	0.115	16	60	79	IRFR3910-ND	3.41	2.20	1.71
	100	0.115	16	60	79	IRFR3910PBFCT-ND◆	2.73	1.76	1.37
	100	0.115	16	60	79	IRFR3910PBFTR-ND◆	1410.00/2,000		
	100	0.115	16	60	79	IRFR3910TRL-ND	3948.75/3,000		
	100	0.21	9.4	38	48	IRFR120NPBFCT-ND◆	1.60	1.00	.74
	100	0.21	9.4	38	48	IRFR120NTR-ND	1400.00/2,000		
	100	0.21	9.4	38	48	IRFR120NPBFTR-ND◆	858.00/2,000		
	100	0.21	9.4	38	48	IRFR120NTRL-ND	2100.00/3,000		
	150	0.18	14	56	86	IRFR13N15D-ND	2.57	1.66	1.29
	200	0.235	13	52	110	IRFR13N20D-ND	3.15	2.03	1.58
	200	0.235	13	52	110	IRFR13N20DPBFCT-ND◆	2.52	1.62	1.26
	200	0.235	13	52	110	IRFR13N20DPBFTR-ND◆	1612.00/2,000		
	200	0.6	5	20	43	IRFR220N-ND	1.75	1.13	.88
	200	0.6	5	20	43	IRFR220NPBFCT-ND◆	1.60	1.00	.74
	200	0.6	5	20	43	IRFR220NPBFTR-ND◆	910.00/2,000		
DPak Logic Level									
2	20	0.011	49	200	40	IRLR3715ZPBFCT-ND◆	2.00	1.25	.93
	20	0.011	49	200	40	IRLR3715ZPBFTR-ND◆	1448.00/2,000		

◆ ***RoHS Compliant***

(Continued)

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
2	20	0.02	36	31	140	IRLR3714PBFCT-ND◆	1.95	1.22	.91
	20	0.02	36	31	140	IRLR3714PBFTR-ND◆	1290.00/2,000		
	25	0.0094	51	200	44	IRLR8715CPBF-ND◆	1.80	1.13	.84
	25	0.0056	84	340	68	IRLR8711CPBF-ND◆	1.81	1.17	.91
	30	0.01	65	260	75	IRLR7821-ND	2.66	1.71	1.33
	30	0.01	65	260	75	IRLR7821PBFCT-ND◆	2.13	1.37	1.07
	30	0.01	65	260	75	IRLR7821PBFTR-ND◆	1178.00/2,000		
	30	0.0033	161	620	140	IRLR7843-ND	3.78	2.52	2.02
	30	0.0033	161	620	140	IRLR7843PBFCT-ND◆	3.02	2.02	1.62
	30	0.0038	161	620	140	IRLR7843PBFTR-ND◆	2134.00/2,000		
	30	0.0045	140	560	140	IRLR7833-ND	3.78	2.52	2.02
	30	0.0045	140	560	140	IRLR7833PBFCT-ND◆	3.02	2.02	1.62
	30	0.0045	140	560	140	IRLR7833PBFTR-ND◆	1906.00/2,000		
	30	0.006	94	380	89	IRLR8113PBFCT-ND◆	2.79	1.80	1.40
	30	0.006	94	380	89	IRLR8113PBFTR-ND	2200.00/2,000		
	30	0.012	44	196	62	IRLR8503-ND	4.31	2.88	2.31
	30	0.012	44	196	62	IRLR8503PBFCT-ND◆	3.45	2.30	1.84
	30	0.012	44	196	62	IRLR8503PBFTR-ND◆	2806.00/2,000		
	30	0.0138	43	170	40	IRLR7807Z-ND	2.49	1.44	1.13
	30	0.0138	43	170	40	IRLR7807ZPBFCT-ND◆	1.99	1.25	.93
	30	0.0138	43	170	40	IRLR7807ZPBFTR-ND◆	1392.00/2,000		
	30	0.019	55	220	107	IRLR3103PBFCT-ND◆	2.28	1.47	1.14
	30	0.019	55	220	107	IRLR3103TR-ND	2276.40/2,000		
	30	0.019	55	220	107	IRLR3103PBFTR-ND◆	1178.00/2,000		
	30	0.031	35	140	68	IRLR3303-ND	2.93	1.89	1.47
	30	0.031	35	140	68	IRLR3303PBFCT-ND◆	2.35	1.51	1.18
	30	0.031	35	140	68	IRLR3303PBFTR-ND◆	1822.00/2,000		
	30	0.045	23	96	45	IRLR2703-ND	1.76	1.14	.89
	30	0.045	23	96	45	IRLR2703PBFCT-ND◆	1.61	1.01	.75
	30	0.045	23	96	45	IRLR2703PBFTR-ND◆	778.00/2,000		
	30	0.079	91	363	115	IRLR8103V-ND	3.06	2.04	1.64
	30	0.079	91	363	115	IRLR8103VPBFCT-ND◆	2.85	1.84	1.43
	30	0.079	91	363	115	IRLR8103VPBFTR-ND◆	1412.00/2,000		
	55	0.012	42	360	130	IRLR3705ZPBF-ND◆	2.98	1.92	1.49
	55	0.027	42	160	110	IRLR2905PBFCT-ND◆	3.30	2.20	1.76
	55	0.027	42	160	110	IRLR2905PBFTR-ND◆	1216.00/2,000		
	55	0.04	28	110	68	IRLR2705PBFCT-ND◆	1.93	1.24	.97
	55	0.04	28	110	68	IRLR2705PBFTR-ND◆	930.00/2,000		
	55	0.065	17	72	45	IRLR024NPBFCT-ND◆	1.80	1.13	.84
	55	0.065	17	72	45	IRLR024NPBFTR-ND◆	858.00/2,000		
	100	0.105	17	60	79	IRLR3410PBFCT-ND◆	2.03	1.31	1.02
	100	0.105	17	60	79	IRLR3410PBFTR-ND◆	992.00/2,000		
	100	0.185	10	35	48	IRLR120N-ND	1.93	1.24	.97
	100	0.185	10	35	48	IRLR120NPBFCT-ND◆	1.76	1.10	.82
	100	0.185	10	35	48	IRLR120NPBFTR-ND◆	858.00/2,000		
	100	0.185	11	35	48	IRLR120NTRL-ND	2310.00/3,000		
Micro-3™ (SOT-23) Logic Level — RoHS Compliant									
3	20	0.045	4.2	33	1.25	IRLML2502PBFCT-ND	.77	.45	.30
	20	0.045	4.2	33	1.25	IRLML2502PBFTR-ND	486.00/3,000		
	20	0.25	1.2	7.4	540	IRLML2402PBFCT-ND	1.13	.66	.44
	20	0.25	1.2	7.4	540	IRLML2402PBFTR-ND	378.00/3,000		
	30	0.25	1.2	7.3	540	IRLML2803PBFCT-ND	.67	.39	.26
	30	0.25	1.2	7.3	540	IRLML2803PBFTR-ND	378.00/3,000		
Micro-6™ (TSOP-6)									
4	150	1.2	0.9	7	2.0	IRF5802TRCT-ND	1.15	.72	.54
	150	1.2	0.9	7	2.0	IRF5802TRTR-ND	1252.80/3,000		
Micro-6™ (TSOP-6) Logic Level									
4	20	0.03	6.5	20	2.0	IRLMS2002CT-ND	1.40	.88	.65
	20	0.03	6.5	20	2.0	IRLMS2002PBFCT-ND◆	1.12	.70	.52
	20	0.03	6.5	20	2.0	IRLMS2002PBFTR-ND◆	843.00/3,000		
	20	0.1	3.2	18	1.7	IRLMS1902PBFCT-ND◆	1.28	.80	.60
	20	0.1	3.2	18	1.7	IRLMS1902PBFTR-ND◆	711.00/3,000		
	30	0.1	3.2	18	1.7	IRLMS1503CT-ND	1.45	.91	.68
	30	0.1	3.2	18	1.7	IRLMS1503PBFCT-ND◆	1.16	.73	.54
	30	0.1	3.2	18	1.7	IRLMS1503PBFTR-ND◆	684.00/3,000		
Micro-8™ Logic Level									
5	20	0.035	5.7	30	1.8	IRF7601CT-ND	3.15	2.03	1.58
	20	0.035	5.7	30	1.8	IRF7601TR-ND	4860.00/4,000		
	30	0.060	5.6	30	1.8	IRF7603CT-ND	2.80	1.80	1.40
	30	0.060	5.6	30	1.8	IRF7603TR-ND	4320.00/4,000		
	30	0.060	5.6	30	1.8	IRF7603TRPBFCT-ND◆ ***NEW!***	2.24	1.44	1.12
	30	0.060	5.6	30	1.8	IRF7603TRPBFTR-ND◆ ***NEW!***	1280.00/4,000		
Micro-8™ Dual Logic Level									
5	20	0.135	2.4	19	1.25	IRF7501CT-ND	2.76	1.78	1.38
	20	0.135	2.4	19	1.25	IRF7501TR-ND	4412.00/4,000		
	20	0.135	2.4	19	1.25	IRF7501TRPBFCT-ND◆ ***NEW!***	2.21	1.42	1.11
	20	0.135	2.4	19	1.25	IRF7501TRPBFTR-ND◆ ***NEW!***	1248.00/4,000		
	20	0.045	5.4	40	1.3	IRF7530TRPBFCT-ND◆ ***NEW!***	1.92	1.20	.89
	20	0.045	5.4	40	1.3	IRF7530TRPBFTR-ND◆ ***NEW!***	1860.00/4,000		
	30	0.222	2.4	14	1.25	IRF7503CT-ND	2.53	1.63	1.27
	30	0.222	2.4	14	1.25	IRF7503TRPBFCT-ND◆ ***NEW!***	2.02	1.31	1.02
	30	0.222	2.4	14	1.25	IRF7503TRPBFTR-ND◆ ***NEW!***	2788.00/4,000		
SOT-223									
9	55	0.16	1.9	15	2.1	IRFL014N-ND	1.75	1.13	.88
	55	0.16	1.9	15	2.1	IRFL014NPBFCT-ND◆	1.60	1.00	.74
	55	0.16	1.9	15	2.1	IRFL014NPBFTR-ND◆	742.50/2,500		
	55	0.045	3.7	30	2.1	IRFL4105TRPBFCT-ND◆ ***NEW!***	2.45	1.58	1.23
	55	0.045	3.7	30	2.1	IRFL4105TRPBFTR-ND◆ ***NEW!***	1047.50/2,500		
	100	0.20	1.6	13	1.0	IRFL4310CT-ND	2.63	1.69	1.32
	100	0.20	1.6	13	1.0	IRFL4310TR-ND	2625.00/2,500		
	100	0.20	1.6	13	1.0	IRFL4310TRPBFCT-ND◆ ***NEW!***	2.10	1.35	1.05
	100	0.20	1.6	13	1.0	IRFL4310TRPBFTR-ND◆ ***NEW!***	990.00/2,500		
SOT-223 Logic Level									
9	30	0.031	4.6	37	1.0	IRLL3303PBFCT-ND◆	1.40	.88	.65
	30	0.031	4.6	37	1.0	IRLL3303PBFTR-ND◆	1270.00/2,500		
	55	0.04	3.8	30	2.1	IRLL2705-ND	2.19	1.75	1.32
	55	0.04	3.8	30	1.0	IRLL2705PBFCT-ND◆	2.45	1.58	1.23
	55	0.04	3.8	30	1.0	IRLL2705PBFTR-ND◆	1007.50/2,500		
	55	0.060	5.0	40	1.0	IRLL024Z-ND	1.25	.79	.63

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
9	55	0.065	3.1	12	2.1	IRLL024N-ND	1.60	1.20	.74
	55	0.065	3.1	12	2.1	IRLL024NPBFCT-ND◆	1.28	.80	.60
	55	0.065	3.1	12	2.1	IRLL024NPBFTR-ND◆	830.00/2,500		
	55	0.14	2	16	2.1	IRLL014N-ND	1.50	.94	.70
	55	0.14	2	16	2.1	IRLL014NPBFCT-ND◆	1.20	.75	.56
	55	0.14	2	16	2.1	IRLL014NPBFTR-ND◆	732.50/2,500		
SO-8									
6	20	0.0134	10	82	2.0	IRF8910-ND	4.20	2.80	2.24
	20	0.0134	10	82	2.0	IRF8910PBFCT-ND◆	3.81	2.54	2.04
	20	0.0134	10	82	2.0	IRF8910PBFTR-ND◆	3760.00/4,000		
	20	0.0183	8.9	71	2.0	IRF8915PBFCT-ND◆	3.81	2.54	2.04
	20	0.0183	8.9	71	2.0	IRF8915PBFTR-ND◆	6604.00/4,000		
	20	0.03	7.0	28	2.0	IRF7331PBFCT-ND◆	3.51	2.35	1.88
	20	0.03	7.0	28	2.0	IRF7331PBFTR-ND◆	6324.00/4,000		
	20	0.009	12	100	2.5	IRF7459-ND	2.93	1.89	1.47
	20	0.035	6.8	54	2.5	IRF7402-ND	3.56	2.38	1.91
	20	0.035	6.8	54	2.5	IRF7402PBFCT-ND◆	3.33	2.14	1.67
	20	0.035	6.8	54	2.5	IRF7402PBFTR-ND◆	5132.00/4,000		
	20	.0044	20	160	2.5	IRF3717-ND	6.43	3.31	2.12
	20	.0044	20	160	2.5	IRF3717PBFCT-ND◆	3.96	2.64	2.12
	20	.0044	20	160	2.5	IRF3717PBFTR-ND◆	6864.00/4,000		
	20	0.0134	10	83	2.0	IRF9910PBFCT-ND◆	2.29	1.48	1.15
	20	0.0134	10	83	2.0	IRF9910PBFTR-ND◆	3456.00/4,000		
	30	0.0238	6.4	51	1.4	IRF7902PBF-ND◆	2.56	1.65	1.28
	30	0.0145	7.6	61	1.4	IRF7904PBF-ND◆	2.56	1.65	1.28
	30	0.0234	7.8	62	2.0	IRF7905PBF-ND◆	2.45	1.58	1.23
	30	0.0171	9.1	76	2.0	IRF7907PBF-ND◆	2.28	1.47	1.14
	30	0.0036	21	170	2.5	IRF7831-ND	3.59	2.40	1.92
	30	0.0036	21	170	2.5	IRF7831PBFCT-ND◆	3.38	2.18	1.69
	30	0.0036	21	170	2.5	IRF7831PBFTR-ND◆	5172.00/4,000		
	30	0.004	20	160	2.5	IRF7832-ND	3.75	2.50	2.00
	30	0.004	20	160	2.5	IRF7832CT-ND	3.75	2.50	2.00
	30	0.004	20	160	2.5	IRF7832PBFCT-ND◆	3.00	2.00	1.60
	30	0.004	20	160	2.5	IRF7832TR-ND	6500.00/4,000		
	30	0.004	20	160	2.5	IRF7832PBFTR-ND◆	3516.00/4,000		
	30	0.0045	19	160	2.5	IRF7834PBFCT-ND◆	2.81	1.81	1.41
	30	0.0045	19	160	2.5	IRF7834PBFTR-ND◆	4340.00/4,000		
	30	0.005	18	150	3.1	IRF7822-ND	3.92	2.62	2.10
	30	0.005	18	150	3.1	IRF7822PBFCT-ND◆	3.14	2.10	1.68
	30	0.005	18	150	3.1	IRF7822PBFTR-ND◆	3660.00/4,000		
	30	0.006	17.2	133	2.5	IRF8113PBFCT-ND◆	1.51	.95	.70
	30	0.006	17.2	133	2.5	IRF8113PBFTR-ND◆	2116.00/4,000		
	30	0.007	13.3	100	2.5	IRF7809AVPBFCT-ND◆	3.66	2.36	1.84
	30	0.007	13.3	100	2.5	IRF7809AVPBFTR-ND◆	2688.00/4,000		
	30	0.007	16	120	2.5	IRF7805Z-ND	2.38	1.53	1.19
	30	0.007	16	120	2.5	IRF7805ZPBFCT-ND◆	1.97	1.27	.99
	30	0.007	16	120	2.5	IRF7805ZPBFTR-ND◆	2884.00/4,000		
	30	0.008	14	110	2.5	IRF7458-ND	3.28	2.12	1.65
	30	0.008	14	110	2.5	IRF7458PBFCT-ND◆	2.63	1.69	1.32
	30	0.008	14	110	2.5	IRF7458PBFTR-ND◆	3248.00/4,000		
	30	0.008	14	110	2.5	IRF7477PBFCT-ND◆	2.41	1.55	1.21
	30	0.008	14	110	2.5	IRF7477PBFTR-ND◆	3720.00/4,000		
	30	0.0091	13.6	100	2.5	IRF7821-ND	3.47	2.32	1.85
	30	0.0091	13.6	100	2.5	IRF7821PBFCT-ND◆	3.24	2.09	1.62
	30	0.0091	13.6	100	2.5	IRF7821PBFTR-ND◆	1748.00/4,000		
	30	0.01	13	100	2.5	IRF7413ZPBFCT-ND◆	1.75	1.13	.88
	30	0.01	13	100	2.5	IRF7413ZPBFTR-ND◆	1760.00/4,000		
	30	0.011	10.8	100	2.5	IRF7811AV-ND	2.45	1.58	1.23
	30	0.011	10.8	100	2.5	IRF7811AVPBFCT-ND◆	3.35	2.16	1.68
	30	0.011	10.8	100	2.5	IRF7811AVPBFTR-ND◆	1864.00/4,000		
	30	0.011	13	100	2.5	IRF7805APBFCT-ND◆	2.33	1.50	1.17
	30	0.011	13	100	2.5	IRF7805APBFTR-ND◆	3468.00/4,000		
	30	0.011	13	100	2.5	IRF7805-ND	2.91	1.87	1.46
	30	0.011	13	100	2.5	IRF7805PBFCT-ND◆	2.33	1.50	1.17
	30	0.011	13	100	2.5	IRF7805TR-ND	4487.40/4,000		
	30	0.011	13	100	2.5	IRF7805PBFTR-ND◆	2840.00/4,000		
	30	0.014	11	88	2.5	IRF7807ZPBFCT-ND◆	1.97	1.27	.99
	30	0.014	11	88	2.5	IRF7807ZPBFTR-ND◆	2760.00/4,000		
	30	0.017	8.3	66	2.5	IRF7807V-ND	3.09	1.99	1.55
	30	0.017	8.3	66	2.5	IRF7807VPBFCT-ND◆	1.76	1.14	.89
	30	0.017	8.3	66	2.5	IRF7807VPBFTR-ND◆	2096.00/4,000		
	30	0.025	8.3	66	2.5	IRF7807PBFCT-ND◆	2.47	1.59	1.24
	30	0.025	8.3	66	2.5	IRF7807PBFTR-ND◆	3388.00/4,000		
	30	0.03	7	37	2.5	IRF9410PBFCT-ND◆	2.52	1.62	1.26
	30	0.03	7	37	2.5	IRF9410PBFTR-ND◆	3888.00/4,000		
	30	0.0045	19	150	2.5	IRF7835PBF-ND◆	2.90	1.87	1.45
	40	0.005	18	140	2.5	IRF7842PBFCT-ND◆	3.09	2.06	1.65
	40	0.005	18	140	2.5	IRF7842PBFTR-ND◆	5456.00/4,000		
	40	0.013	10	83	2.5	IRF7471-ND	3.11	2.00	1.56
	40	0.013	10	83	2.5	IRF7471PBFCT-ND◆	3.01	1.94	1.51
	40	0.013	10	83	2.5	IRF7471PBFTR-ND◆	2880.00/4,000		
	40	0.013	10	85	1.6	IRF7470-ND	2.90	1.87	1.45
	40	0.013	10	85	1.6	IRF7470PBFCT-ND◆	2.32	1.49	1.16
	40	0.013	10	85	1.6	IRF7470PBFTR-ND◆	2488.00/4,000		
	40	0.017	9.0	73	2.5	IRF7469PBFCT-ND◆	1.78	1.15	.89
	40	0.017	9.0	73	2.5	IRF7469PBFTR-ND◆	2152.00/4,000		
	50	0.13	3.0	25	2.4	IRF7103Q-ND	1.32	.83	.62
	60	0.026	7.0	56	2.5	IRF7478-ND	2.63	1.69	1.32
	60	0.026	7.0	56	2.5	IRF7478PBFCT-ND◆	3.15	2.03	1.58
	60	0.026	7.0	56	2.5	IRF7478PBFTR-ND◆	1872.00/4,000		
	80	0.015	9.3	74	2.5	IRF7493-ND	3.01	2.01	1.61
	80	0.015	9.3	74	2.5	IRF7493PBFCT-ND◆	2.81	1.81	1.41
	80	0.015	9.3	74	2.5	IRF7493PBFTR-ND◆	2996.00/4,000		
	100	0.022	7.3	58	2.5	IRF7495-ND	3.21	2.14	1.72
	100	0.022	7.3	58	2.5	IRF7495PBF-ND◆	2.99	1.93	1.50
	100	0.022	7.3	58	2.5	IRF7495PBFCT-ND◆	2.99	1.93	1.50
	100	0.022	7.3	58	2.5	IRF7495PBFTR-ND◆	3220.00/4,000		
	100	0.026	6.9	55	2.5	IRF7473-ND	3.38	2.18	1.70

◆ ***RoHS Compliant***

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
6	100	0.026	6.9	55	2.5	IRF7473PBFCT-ND◆	3.01	1.94	1.51
	100	0.026	6.9	55	2.5	IRF7473PBFTR-ND◆	3308.00/4,000		
	100	0.06	4.5	36	2.5	IRF7452-ND	3.20	2.06	1.60
	100	0.06	4.5	36	2.5	IRF7452PBFCT-ND◆	2.70	1.74	1.35
	100	0.06	4.5	36	2.5	IRF7452PBFTR-ND◆	2884.00/4,000		
	150	0.044	5.2	42	3.0	IRF7494TRCT-ND	3.56	2.38	1.91
	150	0.044	5.2	42	3.0	IRF7494TRTR-ND	6416.00/4,000		
	150	0.09	3.6	29	2.5	IRF7451PBFCT-ND◆	2.59	1.67	1.30
	150	0.09	3.6	29	2.5	IRF7451PBFTR-ND◆	3868.00/4,000		
	150	0.28	1.9	15	2.5	IRF7465-ND	2.22	1.43	1.12
	150	0.28	1.9	15	2.5	IRF7465PBFCT-ND◆	1.78	1.15	.89
	150	0.28	1.9	15	2.5	IRF7465PBFTR-ND◆	2676.00/4,000		
	200	0.079	3.7	30	2.5	IRF7492-ND	3.96	2.65	2.12
	200	0.17	2.5	20	2.5	IRF7450PBFCT-ND◆	2.49	1.61	1.25
	200	0.17	2.5	20	2.5	IRF7450PBFTR-ND◆	3844.00/4,000		
	200	0.73	1.2	10	2.5	IRF7464-ND	3.00	2.00	1.60
	200	0.73	1.2	10	2.5	IRF7464PBFCT-ND◆	2.80	1.80	1.40
	200	0.73	1.2	10	2.5	IRF7464PBFTR-ND◆	2684.00/4,000		
	250	0.23	2.2	17	2.5	IRF7453-ND	3.37	2.17	1.69
	250	0.23	2.2	17	2.5	IRF7453PBFCT-ND◆	2.70	1.74	1.35
	250	0.23	2.2	17	2.5	IRF7453PBFTR-ND◆	2480.00/4,000		
SO-8 Logic Level									
6	20	0.1	3.5	14	2.0	IRF7101-ND	2.85	1.83	1.43
	20	0.1	3.5	14	2.0	IRF7101PBFCT-ND◆	2.28	1.47	1.14
	20	0.1	3.5	14	2.0	IRF7101PBFTR-ND◆	1336.00/4,000		
	20	0.05	5.2	21	2.0	IRF7301PBFCT-ND◆	2.80	1.80	1.40
	20	0.05	5.2	21	2.0	IRF7301TR-ND	5400.00/4,000		
	20	0.05	5.2	21	2.0	IRF7301PBFTR-ND◆	1848.00/4,000		
	20	0.029	6.6	26	2.0	IRF7311-ND	4.13	2.75	2.20
	20	0.029	6.6	26	2.0	IRF7311PBFCT-ND◆	3.30	2.20	1.76
	20	0.029	6.6	26	2.0	IRF7311PBFTR-ND◆	2140.00/4,000		
	20	0.022	8.7	35	2.5	IRF7401-ND	3.38	2.25	1.80
	20	0.022	8.7	35	2.5	IRF7401PBFCT-ND◆	3.15	2.03	1.58
	20	0.022	8.7	35	2.5	IRF7401TR-ND	6075.00/4,000		
	20	0.022	8.7	35	2.5	IRF7401PBFTR-ND◆	1796.00/4,000		
	20	0.0065	16	130	2.5	IRF7456-ND	2.93	1.89	1.47
	20	0.0065	16	130	2.5	IRF7456PBFCT-ND◆	2.35	1.51	1.18
	20	0.0065	16	130	2.5	IRF7456PBFTR-ND◆	2688.00/4,000		
	20	0.007	15	120	2.5	IRF7457PBFCT-ND◆	2.70	1.74	1.35
	20	0.007	15	120	2.5	IRF7457PBFTR-ND◆	2676.00/4,000		
	20	0.01	12	100	2.5	IRF7460-ND	3.28	2.12	1.65
	20	0.01	12	100	2.5	IRF7460PBFCT-ND◆	2.63	1.69	1.32
	20	0.01	12	100	2.5	IRF7460PBFTR-ND◆	4052.00/4,000		
	28	0.012	11.4	100	2.5	IRF7811A-ND	3.75	2.50	2.00
	28	0.012	11.4	100	2.5	IRF7811APBFCT-ND◆	3.00	2.00	1.60
	28	0.012	11.4	100	2.5	IRF7811ATR-ND	6500.00/4,000		
	28	0.012	11.4	100	2.5	IRF7811APBFTR-ND◆	2800.00/4,000		
	30	0.03	7.3	58	2.5	IRF7201PBFCT-ND◆	4.14	2.76	2.21
	30	0.03	7.3	58	2.5	IRF7201PBFTR-ND◆	1324.00/4,000		
	30	0.05	4.9	20	2.0	IRF7303-ND	3.00	2.00	1.60
	30	0.05	4.9	20	2.0	IRF7303PBFCT-ND◆	2.80	1.80	1.40
	30	0.05	4.9	20	2.0	IRF7303PBFTR-ND◆	1704.00/4,000		
	30	0.029	6.5	30	2.5	IRF7313-ND	4.13	2.75	2.20
	30	0.029	6.5	30	2.5	IRF7313PBFCT-ND◆	3.45	2.30	1.84
	30	0.029	6.5	30	2.5	IRF7313TR-ND	7477.60/4,000		
	30	0.029	6.5	30	2.5	IRF7313PBFTR-ND◆	2084.00/4,000		
	30	0.022	8.5	34	2.5	IRF7403-ND	3.38	2.25	1.80
	30	0.022	8.5	34	2.5	IRF7403PBFCT-ND◆	3.33	2.14	1.67
	30	0.022	8.5	34	2.5	IRF7403PBFTR-ND◆	1720.00/4,000		
	30	0.011	13	58	2.5	IRF7413PBFCT-ND◆	3.45	2.30	1.84
	30	0.011	13	58	2.5	IRF7413PBFTR-ND◆	2208.00/4,000		
	30	0.0075	15	120	2.5	IRF7455-ND	3.28	2.12	1.65
	30	0.0075	15	120	2.5	IRF7455PBFCT-ND◆	2.63	1.69	1.32
	30	0.0075	15	120	2.5	IRF7455PBFTR-ND◆	2884.00/4,000		
	30	0.008	14	110	2.5	IRF7463PBFCT-ND◆	2.63	1.69	1.32
	30	0.008	14	110	2.5	IRF7463PBFTR-ND◆	3800.00/4,000		
	30	0.0125	11	90	2.5	IRF7466PBFCT-ND◆	2.63	1.69	1.32
	30	0.0125	11	90	2.5	IRF7466PBFTR-ND	4052.00/4,000		
	30	0.009	14	109	3.1	IRF7811W-ND	3.66	2.45	1.96
	30	0.009	14	109	3.1	IRF7811WPBFCT-ND◆	3.42	2.20	1.71
	30	0.009	14	109	3.1	IRF7811WPBFTR-ND◆	2404.00/4,000		
	30	0.1	3.5	16	2.0	IRF9956PBFCT-ND◆	2.28	1.47	1.14
	30	0.0135	10	50	2.5	SI4410DYPBFCT-ND◆	3.36	2.24	1.80
	30	0.009	±12.5	±50	2.5	SI4420DYPBFCT-ND◆	3.81	2.54	2.04
	30	0.009	±12.5	±50	2.5	SI4420DYPBFTR-ND◆	3244.00/4,000		
	30	0.0135	10	50	2.5	SI4410DYPBFTR-ND◆	2328.00/4,000		
	30	0.1	3.5	16	2.0	IRF9956PBFTR-ND◆	1600.00/4,000		
	40	0.015	9.4	75	2.5	IRF7468PBFCT-ND◆	2.80	1.80	1.40
	40	0.015	9.4	75	2.5	IRF7468PBFTR-ND◆	2096.00/4,000		
	50	0.13	3.0	10	2.0	IRF7103-ND	3.06	1.97	1.54
	50	0.13	3.0	10	2.0	IRF7103PBFCT-ND◆	2.45	1.58	1.23
	50	0.13	3.0	10	2.0	IRF7103PBFTR-ND◆	1444.00/4,000		
	55	0.05	4.7	38	2.0	IRF7341PBFCT-ND◆	2.17	1.40	1.09
	55	0.05	4.7	38	2.0	IRF7341PBFTR-ND◆	1932.00/4,000		
SO-8 “Fetky™” Mosfet and Schottky Diode									
6	30	0.017	8.3	66	2.5	IRF7807VD1PBFCT-ND◆	4.74	3.17	2.53
	30	0.017	8.3	66	2.5	IRF7807VD1PBFTR-ND◆	8220.00/4,000		
	30	0.017	8.3	66	2.5	IRF7807VD2PBFCT-ND◆	3.75	2.50	2.00
	30	0.017	8.3	66	2.5	IRF7807VD2PBFTR-ND◆	6500.00/4,000		
	30	0.025	8.3	66	2.5	IRF7807D1PBFCT-ND◆	1.99	1.28	1.00
	30	0.025	8.3	66	2.5	IRF7807D1PBFTR-ND◆	3180.00/4,000		
	30	0.025	8.3	66	2.5	IRF7807D2PBFCT-ND◆	1.78	1.15	.90
	30	0.025	8.3	66	2.5	IRF7807D2PBFTR-ND◆	2852.00/4,000		
	30	0.028	6.2	48	2.0	IRF7901D1-ND	3.75	2.50	2.00
	30	0.028	6.2	48	2.0	IRF7901D1PBFCT-ND◆	3.00	2.00	1.60
	30	0.028	6.2	48	2.0	IRF7901D1PBFTR-ND◆	4196.00/4,000		
	30	0.035	5.8	33	2.5	IRF7421D1PBFCT-ND◆	2.77	1.78	1.39
	30	0.035	5.8	33	2.5	IRF7421D1PBFTR-ND◆	4268.00/4,000		
	30	0.029	6.5	52	2.0	IRF7353D1PBFCT-ND◆	3.60	2.40	1.92
6	30	0.029	6.5	52	2.0	IRF7353D1PBFTR-ND◆	6480.00/4,000		
	30	0.029	6.5	52	2.0	IRF7353D2PBFCT-ND◆	3.60	2.40	1.92
	30	0.029	6.5	52	2.0	IRF7353D2PBFTR-ND◆	6480.00/4,000		
DirectFET™									
10A	20	0.0018	32	260	2.8	IRF6691TR1PBFCT-ND◆	4.66	3.11	2.49
	20	0.0018	32	260	2.8	IRF6691TR1PBFTR-ND◆	2176.00/1,000		
	20	0.0018	32	260	2.8	IRF6691TRPBFCT-ND◆	4.47	2.98	2.39
	20	0.0018	32	260	2.8	IRF6691TRPBFTR-ND◆	9297.60/4,800		
	20	0.002	150	250	2.0	IRF6609CT-ND	3.75	2.50	2.00
	20	0.002	150	250	2.0	IRF6609TR-ND	7800.00/4,800		
	20	0.0022	30	240	2.8	IRF6619TR1PBFCT-ND◆	3.30	2.20	1.76
	20	0.0022	30	240	2.8	IRF6619TR1PBFTR-ND◆	1540.00/1,000		
	20	0.0022	30	240	2.8	IRF6619TRPBFCT-ND◆	3.15	2.10	1.68
	20	0.0022	30	240	2.8	IRF6619TRPBFTR-ND◆	6552.00/4,800		
	20	0.0025	32	260	2.8	IRF6691CT-ND	4.47	2.98	2.39
	20	0.0025	32	260	2.8	IRF6691TR-ND	9120.00/4,800		
	20	0.0026	31	250	1.8	IRF6609TR1PBFCT-ND◆	3.93	2.62	2.10
	20	0.0026	31	250	1.8	IRF6609TR1PBFTR-ND◆	1834.00/1,000		
	20	0.0026	31	250	1.8	IRF6609TRPBFCT-ND◆	3.75	2.50	2.00
	20	0.0026	31	250	1.8	IRF6609TRPBFTR-ND◆	7800.00/4,800		
	20	0.003	30	240	2.8	IRF6619CT-ND	3.15	2.10	1.68
	20	0.003	30	240	2.8	IRF6619TR-ND	6552.00/4,800		
	20	0.0027	27	220	2.8	IRF6620CT-ND	3.43	2.21	1.72
	20	0.0027	27	220	2.8	IRF6620TR-ND	6350.40/4,800		
	20	0.0036	27	220	2.8	IRF6620TR1PBFCT-ND◆	3.09	2.06	1.65
	20	0.0036	27	220	2.8	IRF6620TR1PBFTR-ND◆	1441.00/1,000		
	20	0.0036	27	220	2.8	IRF6620TRPBFCT-ND◆	3.43	2.21	1.72
	20	0.0036	27	220	2.8	IRF6620TRPBFTR-ND◆	6350.40/4,800		
	20	0.0046	18	140	—	IRF6636TR1CT-ND	3.22	2.07	1.61
	20	0.0046	18	140	—	IRF6636TR1TR-ND	1334.00/1,000		
	20	0.0046	18	140	2.2	IRF6636TR1PBFCT-ND◆	3.22	2.07	1.61
	20	0.0046	18	140	2.2	IRF6636TR1PBFTR-ND◆	1334.00/1,000		
	20	0.0046	18	140	2.2	IRF6636TRPBFCT-ND◆	3.08	1.98	1.54
	20	0.0046	18	140	2.2	IRF6636TRPBFTR-ND◆	5702.40/4,800		
	20	0.0082	15	120	2.2	IRF6610TR1PBFCT-ND◆	2.57	1.66	1.29
	20	0.0082	15	120	2.2	IRF6610TR1PBFTR-ND◆	1066.00/1,000		
	20	0.0082	15	120	2.2	IRF6610TRPBFCT-ND◆	2.45	1.58	1.23
	20	0.0082	15	120	2.2	IRF6610TRPBFTR-ND◆	4536.00/4,800		
	20	0.0057	16	120	2.1	IRF6623CT-ND	2.73	1.76	1.37
	20	0.0057	16	120	2.1	IRF6623TR-ND	5054.40/4,800		
	20	0.0064	18	140	2.2	IRF6636CT-ND	3.08	1.98	1.54
	20	0.0064	18	140	2.2	IRF6636TR-ND	5491.20/4,800		
	20	0.007	16	132	2.3	IRF6633TR1PBFCT-ND◆	3.01	1.94	1.51
	20	0.007	16	132	2.3	IRF6633TR1PBFTR-ND◆	1247.00/1,000		
	20	0.007	16	132	2.3	IRF6633TRPBFCT-ND◆	2.87	1.85	1.44
	20	0.007	16	132	2.3	IRF6633TRPBFTR-ND◆	5313.60/4,800		
	20	0.0097	16	120	1.4	IRF6623TR1PBFCT-ND◆	2.87	1.85	1.44
	20	0.0097	16	120	1.4	IRF6623TR1PBFTR-ND◆	1188.00/1,000		
	20	0.0097	16	120	1.4	IRF6623TRPBFCT-ND◆	2.73	1.76	1.37
	20	0.0097	16	120	1.4	IRF6623TRPBFTR-ND◆	5054.40/4,800		
	25	0.0025	27	220	2.8	IRF6628TR1PBFCT-ND◆	3.10	2.00	1.56
	25	0.0025	27	220	2.8	IRF6628TR1PBFTR-ND◆	1285.00/1,000		
	25	0.0025	27	220	2.8	IRF6628TRPBFCT-ND◆	3.10	2.00	1.56
	25	0.0025	27	220	2.8	IRF6628TRPBFTR-ND◆	5740.80/4,800		
	25	0.0021	29	230	2.8	IRF6629TR1PBFCT-ND◆	3.31	2.14	1.66
	25	0.0021	29	230	2.8	IRF6629TR1PBFTR-ND◆	1373.00/1,000		
	25	0.0021	29	230	2.8	IRF6629TRPBFCT-ND◆	3.31	2.14	1.66
	25	0.0021	29	230	2.8	IRF6629TRPBFTR-ND◆	6134.40/4,800		
	30	0.0018	32	250	2.8	IRF6635TR1PBFCT-ND◆	4.26	2.84	2.28
	30	0.0018	32	250	2.8	IRF6635TR1PBFTR-ND◆	1988.00/1,000		
	30	0.0018	32	250	2.8	IRF6635TRPBFCT-ND◆	4.05	2.70	2.16
	30	0.0018	32	250	2.8	IRF6635TRPBFTR-ND◆	8424.00/4,800		
	30	0.002	150	210	2.8	IRF6618CT-ND	3.87	2.58	2.07
	30	0.002	150	210	2.8	IRF6618TR-ND	8049.60/4,800		
	30	0.0023	30	240	2.8	IRF6678TR1PBFCT-ND◆	3.93	2.62	2.10
	30	0.0023	30	240	2.8	IRF6678TR1PBFTR-ND◆	1834.00/1,000		
	30	0.0023	30	240	2.8	IRF6678TRPBFCT-ND◆	3.75	2.50	2.00
	30	0.0023	30	240	2.8	IRF6678TRPBFTR-ND◆	7800.00/4,800		
	30	0.0024	32	250	2.8	IRF6635TR1CT-ND	4.26	2.84	2.28
	30	0.0024	32	250	2.8	IRF6635TR1TR-ND	1988.00/1,000		
	30	0.003	30	240	2.8	IRF6678CT-ND	3.75	2.50	2.00
	30	0.003	30	240	2.8	IRF6678TR-ND	7680.00/4,800		
	30	0.0033	24	190	2.8	IRF6612CT-ND	3.09	2.06	1.65
	30	0.0033	24	190	2.8	IRF6612TR-ND	6676.80/4,800		
	30	0.0034	24	190	2.8	IRF6612TR1PBFCT-ND◆	3.24	2.16	1.73
	30	0.0034	24	190	2.8	IRF6612TR1PBFTR-ND◆	1566.00/1,000		
	30	0.0034	24	190	2.8	IRF6612TRPBFCT-ND◆	3.09	2.06	1.65
	30	0.0034	24	190	2.8	IRF6612TRPBFTR-ND◆	6676.80/4,800		
	30	0.0033	27	220	3.6	IRF6607CT-ND	3.66	2.44	1.96
	30	0.0033	27	220	3.6	IRF6607TR-ND	7612.80/4,800		
	30	0.0034	32	220	2.8	IRF6611CT-ND	3.27	2.18	1.75
	30	0.0034	32	220	2.8	IRF6611TR-ND	6801.60/4,800		
	30	0.0026	32	220	3.9	IRF6611TR1PBFCT-ND◆	3.42	2.28	1.83
	30	0.0026	32	220	3.9	IRF6611TR1PBFTR-ND◆	1653.00/1,000		
	30	0.0026	32	220	3.9	IRF6611TRPBFCT-ND◆	3.27	2.18	1.75
	30	0.0026	32	220	3.9	IRF6611TRPBFTR-ND◆	7065.60/4,800		
	30	0.003	25	200	2.8	IRF6638TR1PBFCT-ND◆	3.16	2.04	1.59
	30	0.003	25	200	2.8	IRF6638TR1PBFTR-ND◆	1311.00/1,000		
	30	0.003	25	200	2.8	IRF6638TRPBFCT-ND◆	3.16	2.04	1.59
	30	0.003	25	200	2.8	IRF6638TRPBFTR-ND◆	5856.00/4,800		
	30	0.0039	28	200	3.6	IRF6603CT-ND	3.45	2.30	1.84
	30	0.0039	28	200	3.6	IRF6603TR-ND	7176.00/4,800		
	30	0.0052	16	130	2.2	IRF6626TR1CT-ND	3.00	2.00	1.60
	30	0.0052	16	130	2.2	IRF6626TR1TR-ND	1400.00/1,000		
	30	0.0052	16	130	2.2	IRF6626TR1PBFCT-ND◆	3.00	2.00	1.60
	30	0.0052	16	130	2.2	IRF6626TR1PBFTR-ND◆	1400.00/1,000		
	30	0.0052	16	130	2.2	IRF6626TRPBFCT-ND◆	3.33	2.14	1.67
	30	0.0052	16	130	2.2	IRF6626TRPBFTR-ND◆	6158.40/4,800		
	30	0.0062	14	120	2.1	IRF6617CT-ND	3.05	1.96	1.53
	30	0.0062	14	120	2.1	IRF6617TR-ND	5640.00/4,800		
	30	0.0083	13	100	2.2	IRF6631TR1PBFCT-ND◆	1.87	1.21	.94
	30	0.0083	13	100	2.2	IRF6631TR1PBFTR-ND◆	776.00/1,000		
	30	0.0083	13	100	2.2	IRF6631TRPBFCT-ND◆	1.87	1.21	.94
	30	0.0083	13	100	2.2	IRF6631TRPBFTR-ND◆	3465.60/4,800		

◆ ***RoHS Compliant***

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
10A	30	0.0093	12	96	2.2	IRF6621TR1PBFCT-ND◆	2.80	1.80	1.40
	30	0.0093	12	96	2.2	IRF6621TR1PBFTR-ND◆	1160.00/1,000		
	30	0.0093	12	96	2.2	IRF6621TRPBFCT-ND◆	2.66	1.71	1.33
	30	0.0093	12	96	2.2	IRF6621TRPBFTR-ND◆	4924.80/4,800		
	30	0.0103	14	120	2.1	IRF6617TR1PBFCT-ND◆	3.20	2.06	1.60
	30	0.0103	14	120	2.1	IRF6617TR1PBFTR-ND◆	1325.00/1,000		
	30	0.0103	14	120	2.1	IRF6617TRPBFCT-ND◆	3.05	1.96	1.53
	30	0.0103	14	120	2.1	IRF6617TRPBFTR-ND◆	5640.00/4,800		
	30	0.0071	16	130	2.2	IRF6626CT-ND	3.33	2.14	1.67
	30	0.0071	16	130	2.2	IRF6626TR-ND	6158.40/4,800		
	30	0.0034	30	240	2.8	IRF6618TR1PBFCT-ND◆	4.05	2.70	2.16
	30	0.0034	30	240	2.8	IRF6618TR1PBFTR-ND◆	1890.00/1,000		
	30	0.0034	30	240	2.8	IRF6618TRPBFCT-ND◆	3.87	2.58	2.07
	30	0.0034	30	240	2.8	IRF6618TRPBFTR-ND◆	8049.60/4,800		
	30	0.009	55	100	2.1	IRF6608CT-ND	2.87	1.85	1.44
	30	0.009	55	100	2.1	IRF6608TR-ND	5313.60/4,800		
	40	0.0041	150	180	89	IRF6613TR1CT-ND	3.90	2.60	2.08
	40	0.0041	150	180	89	IRF6613TR1TR-ND	1885.00/1,000		
	40	0.0041	23	180	2.8	IRF6613TR1PBFCT-ND◆	3.90	2.60	2.08
	40	0.0041	23	180	2.8	IRF6613TR1PBFTR-ND◆	1885.00/1,000		
	40	0.0041	23	180	2.8	IRF6613TRPBFCT-ND◆	3.72	2.48	1.99
	40	0.0041	23	180	2.8	IRF6613TRPBFTR-ND◆	7737.60/4,800		
	40	0.0071	12.7	102	2.1	IRF6614TRPBFCT-ND◆	2.49	1.60	1.25
	40	0.0071	12.7	102	2.1	IRF6614TRPBFTR-ND◆	4603.20/4,800		
	60	0.0055	86	260	89	IRF6648CT-ND◆	3.87	2.58	2.07
	60	0.0055	86	260	89	IRF6648TR-ND◆	1806.00/1,000		
	60	0.0055	86	260	2.8	IRF6648TR1PBFCT-ND◆	3.87	2.58	2.07
	60	0.0055	86	260	2.8	IRF6648TR1PBFTR-ND◆	1806.00/1,000		
	60	0.0055	86	260	2.8	IRF6648TRPBFCT-ND◆	3.87	2.58	2.07
	60	0.0055	86	260	2.8	IRF6648TRPBFTR-ND◆	8049.60/4,800		
	80	0.0076	12	96	—	IRF6646TR1CT-ND	4.32	2.88	2.31
	80	0.0076	12	96	—	IRF6646TR1TR-ND	1944.00/1,000		
	80	0.0076	12	96	2.8	IRF6646TR1PBFCT-ND◆	4.32	2.88	2.31
	80	0.0076	12	96	2.8	IRF6646TR1PBFTR-ND◆	2016.00/1,000		
	80	0.0076	12	96	2.8	IRF6646TRPBFCT-ND◆	4.11	2.74	2.20
	80	0.0076	12	96	2.8	IRF6646TRPBFTR-ND◆	8548.80/4,800		
	80	0.012	55	170	2.8	IRF6668TR1PBFCT-ND◆	3.05	1.96	1.53
	80	0.012	55	170	2.8	IRF6668TR1PBFTR-ND◆	1262.00/1,000		
	80	0.012	55	170	2.8	IRF6668TRPBFCT-ND◆	3.05	1.96	1.53
	80	0.012	55	170	2.8	IRF6668TRPBFTR-ND◆	5640.00/4,800		
	100	0.0103	10.3	82	2.8	IRF6644TR1PBFCT-ND◆	4.14	2.76	2.21
	100	0.0103	10.3	82	2.8	IRF6644TR1PBFTR-ND◆	1932.00/1,000		
	100	0.0103	10.3	82	2.8	IRF6644TRPBFCT-ND◆	3.96	2.64	2.12
	100	0.0103	10.3	82	2.8	IRF6644TRPBFTR-ND◆	8236.80/4,800		
	100	0.0175	8.3	66	2.8	IRF6662TR1PBFCT-ND◆	3.33	2.14	1.67
	100	0.0175	8.3	66	2.8	IRF6662TR1PBFTR-ND◆	1378.00/1,000		
	100	0.0175	8.3	66	2.8	IRF6662TRPBFCT-ND◆	3.33	2.14	1.67
	100	0.0175	8.3	66	2.8	IRF6662TRPBFTR-ND◆	6158.40/4,800		
	100	0.028	5.7	45	3	IRF6645TR1PBFCT-ND◆	2.98	1.92	1.49
	100	0.028	5.7	45	3	IRF6645TR1PBFTR-ND◆	1233.00/1,000		
	100	0.028	5.7	45	3	IRF6645TRPBFCT-ND◆	2.98	1.92	1.49
	100	0.028	5.7	45	3	IRF6645TRPBFTR-ND◆	5510.40/4,800		
	100	0.053	4.2	34	2.2	IRF6655TRPBFCT-ND◆	2.73	1.76	1.37
	100	0.053	4.2	34	2.2	IRF6655TRPBFTR-ND◆	5054.40/4,800		
	100	0.053	4.2	34	2.2	IRF6665TR1PBFCT-ND◆	3.12	2.01	1.56
	100	0.053	4.2	34	2.2	IRF6665TR1PBFTR-ND◆	1291.00/1,000		
	100	0.053	4.2	34	2.2	IRF6665TRPBFCT-ND◆	2.98	1.92	1.49
	100	0.053	4.2	34	2.2	IRF6665TRPBFTR-ND◆	5510.40/4,800		
	150	0.0345	6.2	76	2.8	IRF6643TRPBFCT-ND◆ ***NEW!***	3.78	2.52	2.02
	150	0.0345	6.2	76	2.8	IRF6643TRPBFTR-ND◆ ***NEW!***	8164.80/4,800		
	150	0.0345	6.2	76	2.8	IRF6643TR1PBFCT-ND◆	3.78	2.52	2.02
	150	0.0345	6.2	76	2.8	IRF6643TR1PBFTR-ND◆	1764.00/1,000		
	200	0.0599	4.6	37	2.8	IRF6641TRPBFCT-ND◆ ***NEW!***	3.93	2.62	2.10
	200	0.0599	4.6	37	2.8	IRF6641TRPBFTR-ND◆ ***NEW!***	8491.204,800		
	200	0.0599	4.6	37	2.8	IRF6641TR1PBFCT-ND◆	3.93	2.62	2.10
	200	0.0599	4.6	37	2.8	IRF6641TR1PBFTR-ND◆	1834.00/1,000		
10B	20	0.0022	30	240	—	IRF6619TR1CT-ND	3.30	2.20	1.76
	20	0.0022	30	240	—	IRF6619TR1TR-ND	1540.00/1,000		
	30	0.0023	30	240	—	IRF6678TR1CT-ND	3.93	2.62	2.10
	30	0.0023	30	240	—	IRF6678TR1TR-ND	1769.00/1,000		
	30	0.0026	27	220	—	IRF6611TR1CT-ND	3.42	2.28	1.83
	30	0.0026	27	220	—	IRF6611TR1TR-ND	1596.00/1,000		
	30	0.0082	14	110	—	IRF6637TR1CT-ND	3.36	2.16	1.68
	30	0.0082	14	110	—	IRF6637TR1TR-ND	1392.00/1,000		
	30	0.0082	14	110	2.3	IRF6637TR1PBFCT-ND◆	3.36	2.16	1.68
	30	0.0082	14	110	2.3	IRF6637TR1PBFTR-ND◆	1392.00/1,000		
	30	0.0082	14	110	2.3	IRF6637TRPBFCT-ND◆	3.19	2.05	1.60
	30	0.0082	14	110	2.3	IRF6637TRPBFTR-ND◆	5899.20/4,800		
	30	0.0115	12	92	2.3	IRF6604CT-ND	2.87	1.85	1.44
	30	0.0115	12	92	2.3	IRF6604TR-ND	5313.60/4,800		

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
10B	40	0.0046	19	150	—	IRF6616TR1CT-ND	3.15	2.03	1.58
	40	0.0046	19	150	—	IRF6616TR1TR-ND	1305.00/1,000		
10C	20	0.0046	15	120	—	IRF6610TR1CT-ND	2.57	1.66	1.29
	20	0.0046	15	120	—	IRF6610TR1TR-ND	1066.00/1,000		
	25	0.0089	15	120	2.2	IRF6622TR1PBFCT-ND◆	1.86	1.20	.93
	25	0.0089	15	120	2.2	IRF6622TR1PBFTR-ND◆	769.00/1,000		
	25	0.0089	15	120	2.2	IRF6622TRPBFCT-ND◆ ***NEW!***	1.86	1.20	.93
	25	0.0089	15	120	2.2	IRF6622TRPBFTR-ND◆ ***NEW!***	3436.80/4,800		
	30	0.0093	12	96	—	IRF6621TR1CT-ND	2.80	1.80	1.40
	30	0.0093	12	96	—	IRF6621TR1TR-ND	1160.00/1,000		
Dual N- and P- Channel									
Micro-8™ Logic Level									
5	30/ -30	0.11/ -0.2	2.7/ -2.0	21/ -16	1.25	IRF7509CT-ND	1.45	.91	.68
	30/ -30	0.11/ -0.2	2.7/ -2.0	21/ -16	1.25	IRF7509TRPBFCT-ND◆ ***NEW!***	1.16	.73	.54
	30/ -30	0.11/ -0.2	2.7/ -2.0	21/ -16	1.25	IRF7509TRPBFTR-ND◆ ***NEW!***	1300.00/4,000		
	20/ -20	.135/ -.27	2.4/ -1.7	19/ -14	1.25	IRF7507CT-ND	3.06	1.97	1.54
	20/ -20	.135/ -.27	2.4/ -1.7	19/ -14	1.25	IRF7507TR-ND	4725.00/4,000		
SO-8									
6	25/ -25	0.10/ 0.25	3.5/ -2.3	14/ -10	2	IRF7105PBF-ND◆	2.92	1.83	1.36
	30/ -30	0.029/ -0.058	6.5/ -4.9	30/ -30	2	IRF7319-ND	4.31	2.88	2.31
	30/ -30	0.029/ -0.058	6.5/ -4.9	30/ -30	2	IRF7319PBFCT-ND	3.45	2.30	1.84
	30/ -30	0.029/ -0.058	6.5/ -4.9	30/ -30	2	IRF7319PBFTR-ND◆	2028.00/4,000		
	20/ -20	0.029/ -0.058	6.6/ -5.3	26/ -21	2	IRF7317-ND	4.31	2.88	2.31
	20/ -20	0.029/ -0.058	6.6/ -5.3	26/ -21	2	IRF7317PBFCT-ND◆	3.45	2.30	1.84
	20/ -20	0.029/ -0.058	6.6/ -5.3	26/ -21	2	IRF7317PBFTR-ND◆	3904.00/4,000		
SO-8 Logic Level									
6	20/ -20	0.05/ -0.090	5.2/ -4.3	21/ -17	2	IRF7307-ND	3.19	2.13	1.71
	20/ -20	0.05/ -0.090	5.2/ -4.3	21/ -17	2	IRF7307PBFCT-ND◆	2.98	1.92	1.49
	20/ -20	0.05/ -0.090	5.2/ -4.3	21/ -17	2	IRF7307PBFTR-ND◆	2032.00/4,000		
	25/ -25	.10/ -.25	3.5/ -2.3	14/ -10	2.0	IRF7105PBFCT-ND◆	2.56	1.65	1.28
	25/ -25	.10/ -.25	3.5/ -2.3	14/ -10	2.0	IRF7105PBFTR-ND◆	1356.00/4,000		
	30/ -30	0.05/ -0.10	4.0/ -3.0	16/ -12	1.4	IRF7309-ND	3.00	2.00	1.60
	30/ -30	0.05/ -0.10	4.0/ -3.0	16/ -12	1.4	IRF7309PBFCT-ND◆	3.30	2.20	1.76
	30/ -30	0.05/ -0.10	4.0/ -3.0	16/ -12	1.4	IRF7309PBFTR-ND◆	1696.00/4,000		
	30/ -30	0.029/ -0.058	7.3/ -5.3	30/ -30	2.5	IRF7389PBFCT-ND◆	3.17	2.12	1.70
	30/ -30	0.029/ -0.058	7.3/ -5.3	30/ -30	2.5	IRF7389PBFTR-ND◆	1992.00/4,000		
	30/ -30	0.045/ -0.090	5.8/ -4.3	46/ -34	2.5	IRF7379PBFTR-ND◆	6480.00/4,000		
	30/ -30	0.10/ -0.25	3.5/ -2.3	16/ -10	2	IRF9952-ND	2.28	1.83	1.31
	30/ -30	0.10/ -0.25	3.5/ -2.3	16/ -10	2	IRF9952PBFCT-ND◆	2.56	1.65	1.28
	30/ -30	0.10/ -0.25	3.5/ -2.3	16/ -10	2	IRF9952PBFTR-ND◆	1404.00/4,000		
	55/ -55	0.043/ -0.056	4.7/ -3.4	38/ -27	2	IRF7343PBFCT-ND◆	1.75	1.13	.88
	55/ -55	0.043/ -0.056	4.7/ -3.4	38/ -27	2	IRF7343PBFTR-ND◆	2168.00/4,000		

◆ ***RoHS Compliant***

Photovoltaic Isolators

The Photovoltaic Isolator (PVI) generates an electrically isolated DC voltage upon receipt of a DC input signal. The PVI is ideally suited for driving power MOSFETs, IGBTs or sensitive gate SCRs to form solid state relays.

Input Circuit			Output Circuit							
Vf (led)	Imin (mA)	Imax (mA)	Vout (dc)	Imin (μA)	Ton/Toff Max.	Package	Digi-Key Part No.	Price Each 1	10	100
1.4	5.0	40	8.0	10	5/0.25ms	8-Dip	PVI5013R-ND	6.02	4.30	3.44
1.4	5.0	40	10	10	2.5/0.5ms	8-Dip	PVI5033R-ND	7.38	4.92	3.94

8-Dip

Dimensions in mm

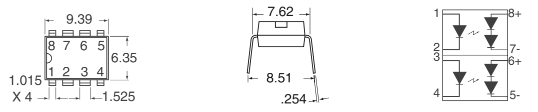

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

N and P Channel Surface Mount HEXFETs

Electrical characteristics at 25°C unless otherwise noted.
Dimensions in mm

Fig. 1 — D²Pak

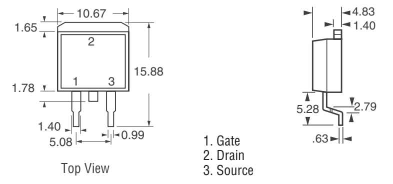

Fig. 2 — DPak

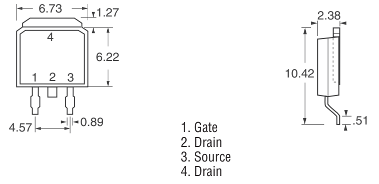

Fig. 3 — SOT-223

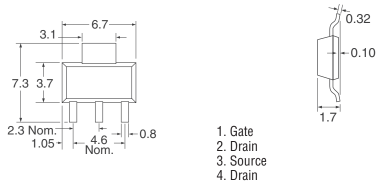

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
P-CHANNEL TYPES									
D²Pak									
1	-60	0.14	-18	-72	88	IRF9Z34S-ND	3.78	2.53	2.02
	-60	0.14	-18	-72	88	IRF9Z34STRL-ND	1412.00/800		
	-60	0.28	-11	-44	60	IRF9Z24S-ND	3.10	2.00	1.56
	-60	0.28	-11	-44	60	IRF9Z24STRR-ND	1028.00/800		
	-100	0.2	-19	-72	150	IRF9540S-ND	5.10	3.40	2.72
	-100	0.2	-19	-72	150	IRF9540STRL-ND	1836.00/800		
	-100	0.3	-12	-48	88	IRF9530S-ND	3.19	2.13	1.71
	-100	0.3	-12	-48	88	IRF9530STRL-ND	1232.80/800		
	-100	0.6	-6.8	-27	60	IRF9520STRL-ND	1015.20/800		
	-100	1.2	-4	-16	43	IRF9510S-ND	2.88	1.86	1.45
	-200	0.5	-11	-44	125	IRF9640S-ND	4.65	3.10	2.48
	-200	0.5	-11	-44	125	IRF9640STRL-ND	1735.20/800		
	-200	0.8	-6.5	-26	74	IRF9630S-ND	3.52	2.35	1.88
DPak (TO-252AA)									
2	-50	0.28	-9.9	—	—	IRFR9020-ND	2.72	1.75	1.36
	-50	0.28	-9.9	—	—	IRFR9020PBFCT-ND◆	2.17	1.40	1.09
	-50	0.28	-9.9	—	—	IRFR9020TR-ND	2172.80/2,000		
	-50	0.28	-9.9	—	—	IRFR9020PBFTR-ND◆	1088.00/2,000		
	-50	0.5	-5.3	—	—	IRFR9010-ND	1.93	1.24	.97
	-50	0.5	-5.3	—	—	IRFR9010PBFCT-ND◆	1.76	1.10	.82
	-50	0.5	-5.3	—	—	IRFR9010PBFTR-ND◆	812.00/2,000		
	-60	0.28	-8.8	-35	42	IRFR9024-ND	2.74	1.77	1.38
	-60	0.28	-8.8	-35	42	IRFR9024PBFCT-ND◆	2.19	1.41	1.10
	-60	0.28	-8.8	-35	42	IRFR9024PBFTR-ND◆	1087.50/2,000		
	-60	0.5	-5.1	-20	25	IRFR9014-ND	1.93	1.24	.97
	-60	0.5	-5.1	-20	25	IRFR9014PBFCT-ND	1.76	1.10	.82
	-60	0.5	-5.1	-20	25	IRFR9014TR-ND	1595.00/2,000		
	-60	0.5	-5.1	-20	25	IRFR9014PBFTR-ND◆	812.00/2,000		
	-60	0.5	-5.1	-20	25	IRFR9014TRL-ND	2229.00/3,000		
	-100	0.6	-5.6	-22	42	IRFR9120PBFCT-ND◆	2.00	1.29	1.00
	-100	0.6	-5.6	-22	42	IRFR9120PBFTR-ND◆	980.00/2,000		
	-100	0.6	-5.6	-22	42	IRFR9120TRL-ND	2994.00/3,000		
	-100	1.2	-3.1	-12	25	IRFR9110-ND	2.01	1.30	1.01
	-100	1.2	-3.1	-12	25	IRFR9110PBFCT-ND◆	1.84	1.15	.86
	-100	1.2	-3.1	-12	25	IRFR9110PBFTR-ND◆	798.00/2,000		
	-100	1.2	-3.1	-12	25	IRFR9110TRL-ND	2415.00/3,000		
	-200	1.5	-3.6	-14	42	IRFR9220-ND	2.31	1.85	1.33
	-200	1.5	-3.6	-14	42	IRFR9220PBFCT-ND◆	2.59	1.67	1.30
	-200	1.5	-3.6	-14	42	IRFR9220TR-ND	2590.00/2,000		
	-200	1.5	-3.6	-14	42	IRFR9220PBFTR-ND◆	876.00/2,000		
	-200	3	-1.9	-7.6	25	IRFR9210-ND	2.36	1.52	1.19
	-200	3	-1.9	-7.6	25	IRFR9210PBFCT-ND◆	1.89	1.22	.95
	-200	3	-1.9	-7.6	25	IRFR9210TR-ND	1890.00/2,000		
	-200	3	-1.9	-7.6	25	IRFR9210PBFTR-ND◆	870.00/2,000		
	-250	3	-2.7	-11	50	IRFR9214-ND	2.19	1.41	1.10
	-400	7	-1.8	-7.2	50	IRFR9310-ND	2.23	1.44	1.12
	-400	7	-1.8	-7.2	50	IRFR9310PBFCT-ND◆	1.79	1.15	.90
	-400	7	-1.8	-7.2	50	IRFR9310PBFTR-ND◆	952.00/2,000		
SOT-223									
3	-60	0.5	-1.8	-14	3.1	IRFL9014-ND	3.06	1.97	1.54
	-60	0.5	-1.8	-14	3.1	IRFL9014PBFCT-ND◆	2.45	1.58	1.23
	-60	0.5	-1.8	-14	3.1	IRFL9014PBFTR-ND◆	1015.00/2,500		
	-100	1.2	-1.1	-8.8	3.1	IRFL9110PBFCT-ND◆	2.28	1.47	1.14
	-100	1.2	-1.1	-8.8	3.1	IRFL9110PBFTR-ND◆	870.00/2,500		
N-CHANNEL TYPES									
D²Pak									
1	60	0.018	50	290	190	IRFZ48RSPBF-ND◆	2.72	1.75	1.36
	60	0.028	50	200	150	IRFZ44S-ND	3.37	2.25	1.80
	60	0.028	50	200	150	IRFZ44STRR-ND	1304.00/800		
	60	0.1	17	68	60	IRFZ24S-ND	1.92	1.24	.97
	60	0.2	10	40	43	IRFZ14S-ND	1.76	1.10	.82
	100	0.077	28	110	150	IRF540STRL-ND	1391.20/800		
	100	0.077	28	110	150	IRF540STRR-ND	1391.20/800		
	100	0.16	14	56	88	IRF530S-ND	2.45	1.58	1.23
	250	0.28	14	56	125	IRF644STRL-ND	1888.00/800		
	250	1.1	4.4	—	50	IRF624S-ND	2.98	1.92	1.49
	250	1.1	4.4	—	50	IRF624SPBF-ND◆	2.38	1.53	1.19
	250	2	2.7	8	36	IRF614S-ND	2.45	1.58	1.23
	300	0.75	6.1	24	74	IRF737LCS-ND	2.45	1.58	1.23
	400	0.55	10	40	125	IRF740STRL-ND	1448.80/800		
	500	1.4	5	20	74	IRF830ASPBF-ND◆	1.96	1.23	.91
	500	1.5	4.5	—	74	IRF830S-ND	3.36	2.17	1.69
	500	3	2.5	10	50	IRF820AS-ND	2.13	1.37	1.07
	500	3	2.5	10	50	IRF820ASPBF-ND◆	1.74	1.09	.81
	600	1.2	6.2	25	130	IRFBC40LCS-ND	3.76	3.01	2.26
	600	2.2	3.6	14	74	IRFBC30SPBF-ND◆	2.94	1.89	1.47
	800	3.0	4.1	16	125	IRFBE30SPBF-ND◆	3.35	2.16	1.68
D²Pak Logic Level									
1	60	0.2	10	40	43	IRLZ14S-ND	2.05	1.32	1.03
	60	0.028	50	200	150	IRLZ44STRR-ND	1538.88/800		
	100	0.16	15	60	88	IRL530STRR-ND	875.88/800		
	100	0.54	5.6	18	43	IRL510S-ND	1.96	1.27	.99
	200	0.4	9	36	74	IRL630SPBF-ND◆	2.74	1.77	1.38
	200	0.4	9	36	74	IRL630STRL-ND	1232.80/800		
DPak									
2	50	0.1	15	—	—	IRFR020-ND	1.70	1.36	.98
	50	0.1	15	—	—	IRFR020PBFCT-ND◆	1.90	1.22	.95
	50	0.1	15	—	—	IRFR020TR-ND	1898.40/2,000		
	50	0.1	15	—	—	IRFR020PBFTR-ND◆	1030.00/2,000		
	50	0.1	15	—	—	IRFR020TRL-ND	2847.60/3,000		
	50	0.2	8.2	33	25	IRFR010-ND	1.85	1.19	.93
	60	0.075	14	68	45	IRFR024-ND	2.37	1.53	1.19
	60	0.075	14	68	45	IRFR024PBFCT-ND◆	1.01	.64	.47
	60	0.075	14	68	45	IRFR024PBFTR-ND◆	1030.00/2,000		
	60	0.2	7.7	31	25	IRFR014PBFCT-ND◆	1.83	1.15	.85
	60	0.2	7.7	31	25	IRFR014PBFTR-ND◆	784.00/2,000		
	100	0.27	7.7	31	42	IRFR120TR-ND	1578.00/2,000		
	100	0.54	4.3	17	25	IRFR110PBFCT-ND◆	1.60	1.00	.74
	100	0.54	4.3	17	25	IRFR110PBFTR-ND◆	754.00/2,000		
	200	0.8	4.8	19	42	IRFR220PBFCT-ND◆	1.82	1.14	.84
	200	0.8	4.8	19	42	IRFR220PBFTR-ND◆	870.00/2,000		
	200	1.5	2.6	10	25	IRFR210-ND	1.75	1.13	.88
	200	1.5	2.6	10	25	IRFR210PBFCT-ND◆	1.60	1.00	.74
	200	1.5	2.6	10	25	IRFR210PBFTR-ND◆	734.00/2,000		
	250	1.1	3.8	15	42	IRFR224-ND	2.19	1.41	1.10
	250	1.1	3.8	15	42	IRFR224PBFCT-ND◆	1.75	1.13	.88
	250	1.1	3.8	15	42	IRFR224PBFTR-ND◆	856.00/2,000		
	400	1.8	3.1	12	42	IRFR320-ND	2.51	1.62	1.26
	400	1.8	3.1	12	42	IRFR320PBFCT-ND◆	2.01	1.29	1.01
	400	1.8	3.1	12	42	IRFR320PBFTR-ND◆	1016.00/2,000		
	400	3.6	1.7	6	25	IRFR310-ND	1.94	1.25	.97
	400	3.6	1.7	6	25	IRFR310PBFCT-ND◆	1.77	1.11	.82
	400	3.6	1.7	6	25	IRFR310TR-ND	1548.40/2,000		
	400	3.6	1.7	6	25	IRFR310PBFTR-ND◆	1116.00/2,000		
	500	3	2.4	8	42	IRFR420-ND	2.32	1.50	1.17
	500	3	2.4	8	42	IRFR420PBFCT-ND◆	1.86	1.20	.93
	500	3	2.4	8	42	IRFR420TR-ND	1856.40/2,000		
	500	3	2.4	8	42	IRFR420PBFTR-ND◆	1016.00/2,000		
	600	4.4	2	8	42	IRFRC20-ND	2.54	1.64	1.28
	600	4.4	2	8	42	IRFRC20PBFCT-ND◆	2.03	1.31	1.02
	600	4.4	2	8	42	IRFRC20PBFTR-ND◆	1392.00/2,000		
	600	7	1.4	5.6	36	IRFR1N60A-ND	2.19	1.41	1.10
	600	7	1.4	5.6	36	IRFR1N60APBFCT-ND◆	1.75	1.13	.88
	600	7	1.4	5.6	36	IRFR1N60APBFTR-ND◆	842.00/2,000		
DPak Logic Level									
2	60	0.2	7.7	31	25	IRLR014-ND	1.85	1.19	.93
	60	0.2	7.7	31	25	IRLR014PBFCT-ND◆	1.69	1.06	.79
	60	0.2	7.7	31	25	IRLR014PBFTR-ND	792.00/2,000		
	60	0.1	14	56	42	IRLR024-ND	2.37	1.53	1.19
	60	0.1	14	56	42	IRLR024PBFCT-ND◆	1.90	1.22	.95
	60	0.1	14	56	42	IRLR024PBFTR-ND◆	1044.00/2,000		
	100	0.27	7.7	31	42	IRLR120-ND	2.09	1.35	1.05
	100	0.27	7.7	31	42	IRLR120PBFCT-ND◆	1.91	1.20	.89
	100	0.27	7.7	31	42	IRLR120PBFTR-ND◆	1044.00/2,000		
	100	0.54	4.3	17	25	IRLR110-ND	1.35	1.08	.77
	100	0.54	4.3	17	25	IRLR110PBFCT-ND◆	1.72	1.08	.80
	100	0.54	4.3	17	25	IRLR110PBFTR-ND◆	754.00/2,000		
	100	0.54	4.3	17	25	IRLR110TRL-ND	2259.00/3,000		
SOT-223									
3	60	0.2	2.7	22	3.1	IRFL014-ND	2.28	1.47	1.14
	60	0.2	2.7	22	3.1	IRFL014PBFCT-ND◆	1.82	1.17	.91
	60	0.2	2.7	22	3.1	IRFL014PBFTR-ND◆	900.00/2,500		
	100	0.54	1.5	12	3.1	IRFL110-ND	2.10	1.35	1.05
	100	0.54	1.5	12	3.1	IRFL110PBFCT-ND◆	1.92	1.20	.89
	100	0.54	1.5	12	3.1	IRFL110PBFTR-ND◆	1097.50/2,500		
	200	1.5	0.96	7.7	3.1	IRFL210-ND	2.28	1.47	1.14
	200	1.5	0.96	7.7	3.1	IRFL210PBFCT-ND◆	1.82	1.17	.91
	200	1.5	0.96	7.7	3.1	IRFL210PBFTR-ND◆	942.50/2,500		
	250	2	0.79	6.3	3.1	IRFL214-ND	1.75	1.40	1.00
	250	2	0.79	6.3	3.1	IRFL214PBFCT-ND◆	1.96	1.26	.98
	250	2	0.79	6.3	3.1	IRFL214PBFTR-ND◆	2030.00/2,500		
SOT-223 Logic Level									
3	60	0.2	2.7	22	3.1	IRLL014-ND	2.41	1.55	1.21
	60	0.2	2.7	22	3.1	IRLL014PBFCT-ND◆	1.93	1.24	.97
	60	0.2	2.7	22	3.1	IRLL014PBFTR-ND◆	1125.00/2,500		
	100	0.54	1.5	12	3.1	IRLL110-ND	2.28	1.47	1.14
	100	0.54	1.5	12	3.1	IRLL110PBFCT-ND◆	1.82	1.17	.91
	100	0.54	1.5	12	3.1	IRLL110PBFTR-ND◆	862.75/2,500		

◆ RoHS Compliant

N and P Channel HEXFETs

Electrical characteristics at 25°C unless otherwise noted.
Dimensions in mm

Fig. 1 — TO-220AB

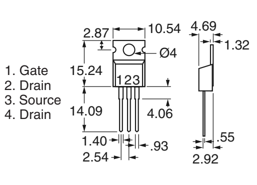

Fig. 2 — TO-220 FULLPAK

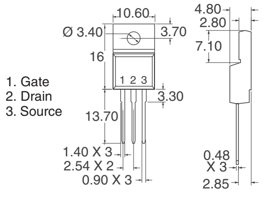

Fig. 3 — TO-247AC

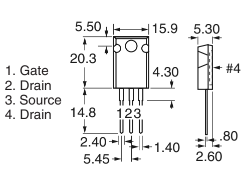

Fig. 4 — TO-262

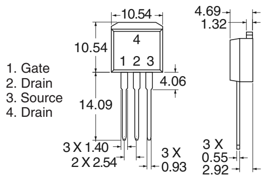

Fig. 5 — I-Pak

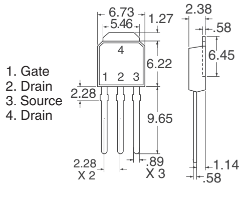

Fig. 6 — 4-Pin Dip (HEXDIP®)

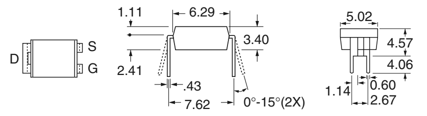

Fig. 7 — Super-220™

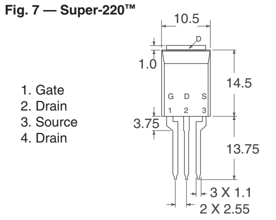

Fig. 8 — TO-220-5

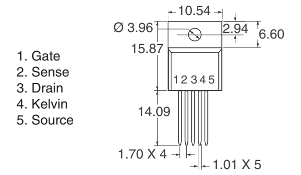

Fig. 9 — Super-247

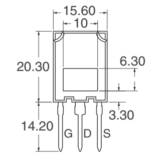

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
						P-CHANNEL TYPES			
						TO-220AB — RoHS Compliant			
1	-50	0.28	-9.7	—	—	IRF9Z20PBF-ND	1.89	1.18	.88
	-50	0.14	-18	—	—	IRF9Z30PBF-ND	1.80	1.16	.90
	-60	0.14	-18	-72	88	IRF9Z34PBF-ND	1.80	1.16	.90
	-60	0.28	-11	-44	60	IRF9Z24PBF-ND	1.58	.99	.74
	-60	0.5	-6.7	-27	43	IRF9Z14PBF-ND	1.52	.95	.71
	-60	0.5	-6.7	-27	43	IRF9Z10PBF-ND	1.72	1.08	.80
	-100	0.2	-19	-72	150	IRF9540PBF-ND	1.64	1.03	.76
	-100	0.3	-12	-48	88	IRF9530PBF-ND	1.98	1.24	.92
	-100	0.60	-6.8	-27	60	IRF9520PBF-ND	1.23	.77	.57
	-100	1.2	-4	-12	20	IRF9510PBF-ND	1.36	.85	.63
	-200	0.5	-11	-44	125	IRF9640PBF-ND	2.28	1.47	1.14
	-200	0.8	-6.5	-26	75	IRF9630PBF-ND	1.75	1.13	.88
	-200	1.5	-3.5	-14	40	IRF9620PBF-ND	1.48	.93	.69
	-200	3	-1.8	-7	20	IRF9610PBF-ND	1.37	.86	.64
						TO-220 FULLPAK			
2	-60	0.14	-12	-48	42	IRFI9Z34GPBF-ND◆	2.84	1.83	1.42
	-60	0.28	-8.5	-34	37	IRFI9Z24GPBF-ND◆	2.28	1.47	1.14
	-60	0.5	-5.3	-21	27	IRFI9Z14GPBF-ND◆	1.84	1.15	.85
	-100	0.117	-13	-44	48	IRFI9540GPBF-ND◆	3.31	2.21	1.77
	-100	0.3	-7.7	-31	42	IRFI9530GPBF-ND◆	2.49	1.60	1.25
	-100	0.6	-5.2	-21	37	IRFI9520GPBF-ND◆	1.98	1.28	.99
	-200	0.5	-6.1	-24	40	IRFI9640G-ND	4.46	2.98	2.38
	-200	0.5	-6.1	-24	40	IRFI9640GPBF-ND◆	3.19	2.13	1.70
	-200	0.8	-4.3	-17	35	IRFI9630G-ND	3.33	2.23	1.78
	-200	0.8	-4.3	-17	35	IRFI9630GPBF-ND◆	2.37	1.53	1.19
	-200	1.5	-3	-12	30	IRFI9620GPBF-ND◆	2.32	1.50	1.17
	-200	3	-1.9	—	—	IRFI9610GPBF-ND◆	2.03	1.31	1.02
	-250	1	-4.1	-16	35	IRFI9634GPBF-ND◆	2.84	1.83	1.42
						TO-247AC — RoHS Compliant			
3	-100	0.2	-21	—	180	IRFP9140PBF-ND	3.34	2.23	1.78
	-200	0.5	-12	—	150	IRFP9240PBF-ND	4.76	3.18	2.54
						TO-262			
4	-60	0.5	-6.7	-27	3.7	IRF9Z14LPBF-ND◆	1.75	1.13	.88
	-100	1.2	-4.0	-16	43	IRF9510L-ND	1.46	1.17	.88
						I-Pak			
5	-50	0.28	-9.9	—	—	IRFU9020PBF-ND◆	1.82	1.17	.91
	-50	0.5	-5.3	-21	25	IRFU9010PBF-ND◆	1.76	1.10	.82
	-60	0.28	-8.8	-35	42	IRFU9024PBF-ND◆	1.90	1.19	.88
	-60	0.5	-5.1	-20	25	IRFU9014PBF-ND◆	1.43	.90	.67
	-100	0.6	-5.6	-22	42	IRFU9120PBF-ND◆	1.47	.92	.68
	-100	1.2	-3.1	-12	25	IRFU9110PBF-ND◆	1.18	.74	.55
	-200	1.5	-3.6	-14	42	IRFU9220PBF-ND◆	1.94	1.22	.90
	-200	3	-1.9	-7.6	25	IRFU9210-ND	2.36	1.52	1.19
	-200	3	-1.9	-7.6	25	IRFU9210PBF-ND◆	1.89	1.22	.95
	-250	3	-2.7	-11	50	IRFU9214PBF-ND◆	1.05	.62	.41
	-400	7	-1.8	-7.2	50	IRFU9310PBF-ND◆	1.79	1.15	.90
						4-Pin Dip (HEXDIP®)			
6	-50	0.28	-1.6	—	—	IRFD9020-ND	2.36	1.52	1.19
	-50	0.28	-1.6	—	—	IRFD9020PBF-ND◆	1.53	.96	.71
6	-50	0.5	-1.1	—	—	IRFD9010PBF-ND◆	1.12	.70	.52
	-60	0.28	-1.6	-13	1.3	IRFD9024PBF-ND◆	1.44	.90	.67
	-60	0.5	-1.1	-8.8	1.3	IRFD9014PBF-ND◆	1.28	.80	.60
	-100	0.6	-1.0	-8	1.0	IRFD9120PBF-ND◆	1.60	1.00	.74
	-100	1.2	-0.7	-3	1.0	IRFD9110PBF-ND◆	1.31	.82	.61
	-200	1.5	-0.6	-4.8	1.0	IRFD9220-ND	2.67	1.90	1.56
	-200	1.5	-0.6	-4.8	1.0	IRFD9220PBF-ND◆	1.38	.87	.64
	-200	3	-0.4	-1.6	1.0	IRFD9210PBF-ND◆	1.23	.77	.57
						N-CHANNEL TYPES			
						TO-220AB			
1	50	0.2	10	29	20	IRFZ10PBF-ND◆	1.24	.78	.58
	50	0.1	15	60	40	IRFZ20PBF-ND◆	1.50	.94	.70
	50	0.028	35	—	—	IRFZ40PBF-ND◆	2.11	1.36	1.06
	50	0.05	30	—	—	IRFZ30PBF-ND◆	1.99	1.25	.93
	60	0.018	50	290	190	IRFZ48R-ND	3.75	2.50	2.00
	60	0.018	50	290	190	IRFZ48RPBF-ND◆	2.28	1.47	1.14
	60	0.018	50	290	190	IRFZ48PBF-ND◆	3.50	2.25	1.75
	60	0.028	50	200	150	IRFZ44RPBF-ND◆	1.93	1.24	.97
	60	0.028	50	200	150	IRFZ44PBF-ND◆	1.68	1.05	.78
	60	0.05	30	120	88	IRFZ34PBF-ND◆	1.99	1.25	.93
	60	0.1	17	68	60	IRFZ24PBF-ND◆	1.50	.94	.70
	60	0.2	10	40	36	IRFZ14PBF-ND◆	1.16	.73	.54
	100	0.077	28	110	150	IRF540PBF-ND◆	1.76	1.10	.82
	100	0.16	14	56	88	IRF530PBF-ND◆	1.62	1.02	.75
	100	0.27	9.2	37	60	IRF520PBF-ND◆	1.64	1.03	.77
	100	0.6	5.6	16	20	IRF510PBF-ND◆	1.12	.70	.52
	200	0.18	18	72	125	IRF640PBF-ND◆	1.50	.94	.70
	200	0.4	9.0	36	74	IRF630PBF-ND◆	1.75	1.13	.88
	200	0.8	5.2	20	40	IRF620IR-ND	1.85	1.16	.86
	200	0.8	5.2	20	40	IRF620PBF-ND◆	1.33	.84	.62
	200	1.5	3.3	10	20	IRF610PBF-ND◆	1.08	.68	.50
	250	1.1	4.4	14	50	IRF624-ND	2.54	1.64	1.27
	250	1.1	4.4	14	50	IRF624PBF-ND◆	1.25	.79	.58
	250	2	2.7	8	36	IRF614PBF-ND◆	1.80	1.13	.84
	300	0.75	6.1	24	74	IRF737LCPBF-ND◆	1.80	1.16	.90
	400	0.55	10	40	125	IRF740IR-ND	3.37	2.25	1.80
	400	0.55	10	40	125	IRF740PBF-ND◆	2.30	1.49	1.16
	400	0.55	10	40	125	IRF740APBF-ND◆	2.12	1.37	1.06
	400	0.55	10	40	125	IRF740LC-ND	4.08	2.73	2.18
	400	0.55	10	40	125	IRF740LCPBF-ND◆	3.40	2.19	1.71
	400	1	5.5	22	74	IRF730PBF-ND◆	1.88	1.18	.87
	400	1	5.5	22	74	IRF730APBF-ND◆	1.84	1.15	.86
	400	1.8	3.3	12	40	IRF720PBF-ND◆	1.47	.92	.69
	400	3.6	2	6	20	IRF710PBF-ND◆	1.20	.75	.56
	450	0.63	8.8	35	125	IRF744-ND	3.19	2.13	1.71
	450	0.63	8.8	35	125	IRF744PBF-ND◆	2.57	1.65	1.29
	450	1.2	4.9	20	74	IRF734-ND	3.32	2.14	1.67
	450	1.2	4.9	20	74	IRF734PBF-ND◆	2.24	1.44	1.12
	500	0.21	20	80	280	IRFB20N50KPBF-ND◆	5.58	3.73	2.98
	500	0.26	17	68	220	IRFB18N50KPBF-ND◆	5.45	3.64	2.91
	500	0.28	16	64	220	IRFB17N50LPBF-ND◆	5.45	3.64	2.91

◆ ***RoHS Compliant***

(Continued)

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
1	500	0.285	17	68	280	IRFB16N50KPBF-ND◆	4.04	2.70	2.16
	500	0.45	14	56	250	IRFB13N50A-ND	4.71	3.15	2.52
	500	0.45	14	56	250	IRFB13N50APBF-ND◆	3.69	2.46	1.97
	500	0.52	11	44	170	IRFB11N50APBF-ND◆	2.42	1.56	1.21
	500	0.85	8	28	125	IRF840LCPBF-ND◆	2.50	1.61	1.26
	500	0.85	8	32	125	IRF840PBF-ND◆	2.33	1.51	1.17
	500	0.85	8	32	125	IRF840APBF-ND◆	2.18	1.41	1.10
	500	1.4	5	20	74	IRF830APBF-ND◆	2.14	1.38	1.07
	500	1.4	5	20	74	IRF830ALPBF-ND◆	2.24	1.44	1.12
	500	1.5	4.5	18	75	IRF830IR-ND	2.50	1.61	1.25
	500	1.5	4.5	18	75	IRF830PBF-ND◆	1.80	1.13	.84
	500	3	2.5	10	40	IRF820PBF-ND◆	1.49	.93	.69
	500	3	2.5	10	50	IRF820APBF-ND◆	1.76	1.14	.89
	600	0.35	17	68	340	IRFB17N60KPBF-ND◆	4.85	3.24	2.59
	600	0.385	16	60	310	IRFB16N60LPBF-ND◆	5.62	3.75	3.00
	600	0.75	9.2	37	170	IRFB9N60APBF-ND◆	2.38	1.53	1.19
	600	1.2	6.2	25	125	IRFBC40PBF-ND◆	2.32	1.50	1.17
	600	1.2	6.2	25	125	IRFBC40APBF-ND◆	2.31	1.49	1.16
	600	1.2	6.2	25	130	IRFBC40LCPBF-ND◆	4.24	2.83	2.27
	600	2.2	3.6	14	74	IRFBC30PBF-ND◆	1.92	1.20	.89
	600	2.2	3.6	14	74	IRFBC30A-ND	3.71	2.48	1.99
	600	2.2	3.6	14	74	IRFBC30APBF-ND◆	2.70	1.74	1.35
	600	4.4	2.2	6.8	50	IRFBC20PBF-ND◆	1.80	1.16	.90
	650	0.93	8.5	21	167	IRFB9N65APBF-ND◆	3.14	2.02	1.57
	800	3	4.1	—	125	IRFBE30PBF-ND◆	2.66	1.71	1.33
	800	6.5	1.8	—	54	IRFBE20PBF-ND◆	2.74	1.76	1.37
	900	3.7	3.6	—	125	IRFBF30PBF-ND◆	3.20	2.14	1.71
	900	8	1.7	—	54	IRFBF20PBF-ND◆	2.06	1.33	1.04
	1000	5	3.1	—	125	IRFBG30PBF-ND◆	2.98	1.92	1.49
	1000	11	1.4	—	54	IRFBG20PBF-ND◆	2.39	1.54	1.20

TO-220AB Logic Level

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
1	60	0.028	50	200	150	IRLZ44PBF-ND◆	1.93	1.24	.97
	60	0.05	30	110	88	IRLZ34PBF-ND◆	1.48	.93	.69
	60	0.1	17	68	60	IRLZ24PBF-ND◆	1.16	.73	.54
	60	0.2	10	40	43	IRLZ14PBF-ND◆	1.24	.78	.58
	100	0.077	28	110	150	IRL540PBF-ND◆	1.92	1.20	.89
	100	0.16	15	60	88	IRL530PBF-ND◆	1.24	.78	.58
	100	0.27	9.2	36	60	IRL520PBF-ND◆	1.28	.75	.50
	100	0.54	5.6	16	43	IRL510PBF-ND◆	1.23	.77	.57
	200	0.18	17	68	125	IRL640PBF-ND◆	2.31	1.49	1.16
	200	0.4	9	36	74	IRL630PBF-ND◆	2.63	1.69	1.32
	200	0.8	5.2	21	50	IRL620PBF-ND◆	1.87	1.17	.87

TO-220 FULLPAK

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
2	60	0.018	37	150	50	IRFIZ48GPBF-ND◆	3.07	2.05	1.64
	60	0.05	20	80	42	IRFIZ34GPBF-ND◆	2.00	1.29	1.00
	60	0.082	30	120	48	IRFIZ44G-ND	3.53	2.35	1.88
	60	0.082	30	120	48	IRFIZ44GPBF-ND◆	3.29	2.12	1.65
	60	0.1	14	56	37	IRFIZ24GPBF-ND◆	1.94	1.25	.97
	60	0.2	8	32	27	IRFIZ14GPBF-ND◆	1.73	1.09	.81
	100	0.077	17	68	48	IRFI540GPBF-ND◆	2.72	1.76	1.37
	100	0.16	9.7	39	42	IRFI530GPBF-ND◆	2.17	1.40	1.09
	100	0.16	9.7	39	42	IRLI530G-ND	2.73	1.76	1.37
	100	0.16	9.7	39	42	IRLI530GPBF-ND◆	1.82	1.17	.91
	100	0.27	7.2	29	37	IRLI520GPBF-ND◆	1.89	1.19	.88
	100	0.27	7.2	29	37	IRFI520GPBF-ND◆	1.79	1.15	.90
	100	0.54	4.5	18	27	IRFI510GPBF-ND◆	1.92	1.20	.89
	200	0.18	9.8	39	40	IRFI640GPBF-ND◆	2.85	1.84	1.43
	200	0.4	5.9	24	35	IRFI630GPBF-ND◆	2.14	1.38	1.07
	200	0.8	4.1	16	30	IRFI620GPBF-ND◆	1.81	1.14	.84
	200	0.8	4.1	16	30	IRLI620GPBF-ND◆	2.21	1.42	1.11
	250	0.28	7.9	32	40	IRFI644GPBF-ND◆	3.87	2.58	2.07
	250	0.45	5.6	22	35	IRFI634GPBF-ND◆	2.28	1.47	1.14
	250	1.1	3.4	14	30	IRFI624GPBF-ND◆	2.21	1.42	1.11
	250	2	2.1	8.4	23	IRFI614GPBF-ND◆	1.75	1.13	.88
	400	0.55	5.4	22	40	IRFI740GPBF-ND◆	2.93	1.89	1.47
	400	0.55	5.7	23	40	IRFI740GLCPBF-ND◆	3.05	2.04	1.63
	400	1	3.7	15	35	IRFI730GPBF-ND◆	2.17	1.40	1.09
	400	1.8	2.6	10	30	IRFI720G-ND	3.50	2.25	1.75
	400	1.8	2.6	10	30	IRFI720GPBF-ND◆	2.24	1.44	1.12
	450	0.63	4.9	20	40	IRFI744GPBF-ND◆	3.26	2.10	1.63
	450	1.2	3.4	14	35	IRFI734G-ND	3.75	2.50	2.00
	450	1.2	3.4	14	35	IRFI734GPBF-ND◆	2.17	1.40	1.09
	500	0.29	6.7	27	45	IRFIB8N50KPBF-ND◆	5.23	3.49	2.79
	500	0.32	6.8	27	46	IRFIB7N50LPBF-ND◆	3.11	2.08	1.66
	500	0. 52	6.6	44	60	IRFIB7N50APBF-ND◆	3.33	2.14	1.67
	500	0.67	4.7	16	42	IRFIB5N50LPBF-ND◆	3.29	2.12	1.65
	500	0.85	4.6	18	40	IRFI840GPBF-ND◆	3.25	2.09	1.63
2	500	0.85	4.5	18	40	IRFI840GLCPBF-ND◆	3.32	2.22	1.78
	500	1.5	3.1	12	35	IRFI830GPBF-ND◆	2.03	1.31	1.02
	500	3	2.1	8.4	30	IRFI820G-ND	3.37	2.25	1.80
	500	3	2.1	8.4	30	IRFI820GPBF-ND◆	1.96	1.26	.98
	600	0.75	5.5	37	60	IRFIB6N60APBF-ND◆	3.10	2.07	1.66
	600	1.2	3.5	14	40	IRFIBC40GPBF-ND◆	3.06	2.04	1.64
	600	1. 2	3.5	14	40	IRFIBC40GLCPBF-ND◆	4.37	2.92	2.34
	600	2.2	2.5	10	35	IRFIBC30GPBF-ND◆	3.12	2.08	1.67
	600	4.4	1.7	6.8	30	IRFIBC20G-ND	3.30	2.20	1.76
	600	4.4	1.7	6.8	30	IRFIBC20GPBF-ND◆	2.50	1.61	1.25
	650	0.93	5.1	21	60	IRFIB5N65APBF-ND◆	3.06	2.04	1.64
	800	3.0	2.1	8.4	35	IRFIBE30GPBF-ND◆	3.22	2.07	1.61
	800	6.5	1.4	5.6	30	IRFIBE20G-ND	3.57	2.38	1.91
	800	6.5	1.4	5.6	30	IRFIBE20GPBF-ND◆	3.33	2.14	1.67
	900	3.7	1.9	7.6	35	IRFIBF30GPBF-ND◆	3.31	2.21	1.77
	900	8	1.2	4.8	30	IRFIBF20GPBF-ND◆	2.61	1.69	1.31

TO-220 FULLPAK Logic Level

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
2	60	0.2	8.0	32	27	IRLIZ14GPBF-ND◆	1.91	1.20	.89
	60	0.028	30	120	48	IRLIZ44GPBF-ND◆	3.14	2.03	1.58
	60	0.05	20	80	42	IRLIZ34GPBF-ND◆	2.73	1.76	1.37
	200	0.18	9.9	40	40	IRLI640GPBF-ND◆	3.02	1.95	1.52
	200	0.4	6.2	25	35	IRLI630G-ND	3.37	2.25	1.80
	200	0.4	6.2	25	35	IRLI630GPBF-ND◆	2.27	1.46	1.14

TO-220-5 Current Sense

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
8	55	0.04	17	68	60	IRCZ24PBF-ND◆	1.87	1.17	.87
	60	0.05	30	120	88	IRCZ34PBF-ND◆	2.15	1.39	1.08
	60	0.028	50	210	150	IRCZ44PBF-ND◆	3.25	2.17	1.74
	100	0.077	28	110	150	IRC540PBF-ND◆	3.19	2.06	1.60
	200	0.18	18	72	125	IRC640-ND	6.09	4.06	3.25
	200	0.18	18	72	125	IRC640PBF-ND◆	2.96	1.91	1.49
	200	0.4	9.0	36	74	IRC630-ND	3.83	2.55	2.04
	250	0.28	14.0	56	125	IRC644-ND	5.06	3.38	2.71
	250	0.28	14.0	56	125	IRC644PBF-ND◆	4.05	2.70	2.16
	250	0.45	8.1	32	74	IRC634-ND	3.73	2.49	2.00
	250	0.45	8.1	32	74	IRC634PBF-ND◆	2.31	1.49	1.16
	400	0.55	10.0	40	125	IRC740-ND	3.59	2.40	1.92
	400	0.55	10.0	40	125	IRC740PBF-ND◆	3.04	1.96	1.52
	400	1	5.5	22	74	IRC730-ND	3.64	2.43	1.95
	400	1	5.5	22	74	IRC730PBF-ND◆	2.20	1.42	1.10
	500	0.85	8.0	32	125	IRC840-ND	5.48	3.65	2.92
	500	0.85	8.0	32	125	IRC840PBF-ND◆	3.36	2.16	1.68
	500	1.5	4.5	18	74	IRC830-ND	3.71	2.48	1.99
	500	1.5	4.5	18	74	IRC830PBF-ND◆	2.22	1.43	1.12

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Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
3	60	0.009	70	520	300	IRFP064PBF-ND◆	7.49	5.00	4.00
	60	0.014	70	360	230	IRFP054PBF-ND◆	4.49	2.99	2.40
	60	0.018	70	290	190	IRFP048PBF-ND◆	5.43	3.62	2.90
	60	0.018	70	290	190	IRFP048RPBF-ND◆	3.15	2.03	1.58
	60	0.028	57	230	180	IRFP044PBF-ND◆	3.11	2.07	1.66
	100	0.077	31	120	180	IRFP140PBF-ND◆	3.00	2.00	1.60
	100	0.055	41	160	230	IRFP150PBF-ND◆	3.77	2.51	2.01
	200	0.055	46	180	280	IRFP260PBF-ND◆	4.33	2.89	2.32
	200	0.085	30	120	190	IRFP250PBF-ND◆	3.33	2.22	1.78
	200	0.18	20	—	150	IRFP240PBF-ND◆	3.21	2.14	1.72
	250	0.06	44	170	380	IRFP264NPBF-ND◆	3.60	2.40	1.92
	250	0.075	38	—	280	IRFP264PBF-ND◆	6.76	4.51	3.61
	250	0.125	23	92	220	IRFP254NPBF-ND◆	3.90	2.61	2.09
	250	0.14	23	92	190	IRFP254PBF-ND◆	4.26	2.85	2.28
	250	0.28	15	—	150	IRFP244PBF-ND◆	3.95	2.64	2.11
	400	0.2	23	92	280	IRFP360PBF-ND◆	6.92	4.62	3.69
	400	0.2	23	92	280	IRFP360LCPBF-ND◆	12.25	9.07	7.35
	400	0.3	16	64	190	IRFP350PBF-ND◆	4.56	3.04	2.44
	400	0.3	16	64	190	IRFP350LCPBF-ND◆	6.99	4.67	3.73
	400	0.55	11	—	150	IRFP340PBF-ND◆	4.73	3.15	2.52
	450	0.63	9.5	38	150	IRFP344-ND	6.11	4.08	3.27
	450	0.63	9.5	38	150	IRFP344PBF-ND◆	4.89	3.26	2.61
	500	0.135	32	130	460	IRFP32N50KPBF-ND◆	8.40	6.22	5.04
	500	0.15	31	124	460	IRFP31N50LPBF-ND◆	9.00	6.66	5.40
	500	0.19	23	92	370	IRFP23N50LPBF-ND◆	7.20	4.80	3.84
	500	0.23	22	88	277	IRFP22N50APBF-ND◆	5.19	3.46	2.77
	500	0.24	20	80	280	IRFP460NPBF-ND◆	6.88	4.59	3.67
	500	0.27	20	80	280	IRFP460APBF-ND◆	6.65	4.44	3.55
	500	0.27	20	80	280	IRFP460PBF-ND◆	3.72	2.48	1.99
	500	0.27	20	80	280	IRFP460LCPBF-ND◆	6.09	4.06	3.25
	500	0.27	20	80	280	IRFP460P-ND	6.25	4.63	3.75
	500	0.28	16	64	220	IRFP17N50LPBF-ND◆	5.25	3.50	2.80
	500	0.37	14	56	200	IRFP450NPBF-ND◆	5.28	3.52	2.82
	500	0.4	14	—	190	IRFP450IR-ND	6.61	4.41	3.53
	500	0.4	14	—	190	IRFP450PBF-ND◆	4.28	2.86	2.29

◆ ***RoHS Compliant***

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
3	500	0.4	14	56	190	IRFP450APBF-ND◆	4.16	2.78	2.23
	500	0.4	14	56	190	IRFP450LCPBF-ND◆	6.55	4.37	3.50
	500	0.6	11	44	180	IRFP448-ND	6.25	4.63	3.75
	500	0.6	11	44	180	IRFP448PBF-ND◆	3.97	2.65	2.12
	500	0.85	8.8	—	150	IRFP440-ND	6.00	4.00	3.20
	500	0.85	8.8	—	150	IRFP440PBF-ND◆	3.45	2.30	1.84
	600	0.18	27	110	500	IRFP27N60KPBF-ND◆	8.40	6.22	5.04
	600	0.21	26	100	470	IRFP26N60LPBF-ND◆	8.32	6.16	5.00
	600	0.24	22	88	370	IRFP22N60KPBF-ND◆	6.43	4.76	3.86
	600	0.27	21	84	330	IRFP21N60LPBF-ND◆	7.46	4.98	3.99
	600	0.385	15	60	280	IRFP15N60LPBF-ND◆	6.14	4.10	3.28
	600	0.4	16	64	280	IRFPC60PBF-ND◆	7.03	5.21	4.22
	600	0.4	16	64	280	IRFPC60LCPBF-ND◆	7.50	5.55	4.50
	600	0.58	11	44	180	IRFPC50APBF-ND◆	3.29	2.12	1.65
	600	0.6	11	44	180	IRFPC50PBF-ND◆	6.90	4.60	3.68
	600	0.6	11	44	190	IRFPC50LCPBF-ND◆	6.25	4.63	3.75
	600	0.82	8.9	36	170	IRFPC48-ND	12.73	10.18	7.27
	600	1.2	6.8	27	150	IRFPC40PBF-ND◆	3.95	2.64	2.11
	800	1.2	7.8	—	190	IRFPE50PBF-ND◆	6.74	4.50	3.60
	800	2	5.4	22	150	IRFPE40-ND	6.88	5.09	4.13
	800	2	5.4	22	150	IRFPE40PBF-ND◆	4.10	2.73	2.19
	800	3	4.1	16	125	IRFPE30-ND	6.25	5.00	3.57
	800	3	4.1	16	125	IRFPE30PBF-ND◆	5.00	3.70	3.00
	800	3	4.1	16	125	IRFPF30PBF-ND◆	4.40	3.26	2.64
	900	1.6	6.7	27	190	IRFPF50PBF-ND◆	6.08	4.73	3.92
	900	2.5	4.7	19	150	IRFPF40PBF-ND◆	4.01	2.67	2.14
	1000	2	6.1	—	190	IRFPG50PBF-ND◆	8.06	5.97	4.84
	1000	3.5	4.3	17	150	IRFPG40-ND	6.41	4.75	3.85
	1000	3.5	4.3	17	150	IRFPG40PBF-ND◆	4.66	3.11	2.49
	1000	5	3.1	—	125	IRFPG30-ND	6.64	4.43	3.55
	1000	5	3.1	—	125	IRFPG30PBF-ND◆	3.39	2.26	1.81
						TO-262			
4	200	0.18	18	72	130	IRF640LPBF-ND◆	3.39	2.18	1.70
	200	1.5	3.3	10	36	IRF610L-ND	2.45	1.58	1.23
	200	1.5	3.3	10	36	IRF610LPBF-ND◆	1.75	1.13	.88
	250	0.24	14	56	150	IRF644NLPBF-ND◆	2.02	1.30	1.01
	250	0.435	8.0	32	88	IRF634NLPBF-ND◆	1.90	1.19	.88
	400	0.55	10	40	125	IRF740ALPBF-ND◆	3.09	1.99	1.55
	400	1	5.5	22	74	IRF730L-ND	1.95	1.56	1.17
	400	1.8	3.3	13	50	IRF720L-ND	2.75	1.77	1.38
	400	1.8	3.3	13	50	IRF720LPBF-ND◆	1.82	1.17	.91
	500	0.55	11	44	190	IRFSL11N50APBF-ND◆	2.52	1.62	1.26
	500	1.4	4.5	20	3.1	IRF830L-ND	3.36	2.17	1.69
	500	1.4	4.5	20	3.1	IRF830LPBF-ND◆	2.24	1.44	1.12
	500	0.85	8	28	125	IRF840L-ND	4.13	2.75	2.20
	500	0.85	8.0	28	125	IRF840LCLPBF-ND◆	3.33	2.14	1.67
	500	0.85	8.0	32	125	IRF840ALPBF-ND◆	2.90	1.87	1.46
	500	3	2.5	8.0	50	IRF820L-ND	2.58	1.67	1.30
	500	3	2.5	8.0	50	IRF820LPBF-ND◆	2.07	1.33	1.04
	500	3	2.5	10	50	IRF820ALPBF-ND◆	1.94	1.22	.90
	600	1.2	6.2	25	3.1	IRFBC40LCL-ND	3.83	3.06	2.30
	600	1.2	6.2	25	125	IRFBC40AL-ND	2.91	1.87	1.46
	600	1.2	6.2	25	130	IRFBC40L-ND	6.00	4.00	3.20
	600	1.2	6.2	25	130	IRFBC40LPBF-ND◆	4.80	3.20	2.56
	600	2.2	3.6	14	74	IRFBC30ALPBF-ND◆	2.00	1.29	1.00
	600	4.4	2.2	8.0	50	IRFBC20L-ND	3.52	2.35	1.88
	600	4.4	2.2	8.0	50	IRFBC20LPBF-ND◆	2.94	1.89	1.47
	600	2.2	3.6	14	74	IRFBC30LPBF-ND◆	3.43	2.21	1.72
	800	3	4.1	16	125	IRFBE30L-ND	3.45	2.30	1.84
	800	3	4.1	16	125	IRFBE30LPBF-ND◆	3.22	2.07	1.61
	900	8	1.7	6.8	54	IRFBF20LPBF-ND◆	2.49	1.60	1.25

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
						TO-262 Logic Level — RoHS Compliant			
4	600	0.75	9.2	37	170	IRFSL9N60APBF-ND	3.19	2.05	1.60
						I-Pak			
5	50	0.1	15	—	—	IRFU020PBF-ND◆	1.52	.95	.71
	60	0.1	14	—	—	IRFU024PBF-ND◆	1.77	1.11	.82
	60	0.14	14	—	—	IRLU024PBF-ND◆	1.80	1.13	.84
	60	0.2	7.7	—	—	IRFU014PBF-ND◆	1.14	.71	.53
	100	0.27	7.7	31	42	IRFU120PBF-ND◆	1.50	.94	.70
	100	0.54	4.3	17	25	IRFU110PBF-ND◆	1.44	.90	.67
	200	0.8	4.8	19	42	IRFU220PBF-ND◆	1.32	.83	.62
	200	1.5	2.6	10	25	IRFU210PBF-ND◆	1.19	.75	.55
	400	1.8	3.1	12	42	IRFU320PBF-ND◆	1.60	1.00	.74
	250	2.0	2.2	8.8	25	IRFU214PBF-ND◆	1.60	1.00	.74
	400	1.8	3.1	12	42	IRFU320-ND	2.36	1.52	1.19
	400	3.6	1.7	6	25	IRFU310PBF-ND◆	1.72	1.08	.80
	500	1.7	5.0	20	110	IRFU430APBF-ND◆	2.20	1.42	1.10
	500	3	2.4	8	42	IRFU420-ND	2.32	1.50	1.17
	250	1.1	3.8	15	42	IRFU224PBF-ND◆	1.62	1.02	.75
	500	3	2.4	8	42	IRFU420PBF-ND◆	1.50	.94	.70
	500	3	3.3	10	83	IRFU420APBF-ND◆	1.13	.71	.53
	600	0.007	1.4	5.6	36	IRFU1N60APBF-ND◆	1.32	.83	.62
	600	4.4	2.0	8.0	42	IRFUC20PBF-ND◆	2.24	1.44	1.12
						I-Pak Logic Level			
5	60	0.2	7.7	—	—	IRLU014PBF-ND◆	1.12	.70	.52
	100	0.27	7.7	31	42	IRLU120PBF-ND◆	1.88	1.18	.87
	100	0.54	4.8	17	25	IRLU110-ND	1.88	1.22	.95
	100	0.54	4.8	17	25	IRLU110PBF-ND◆	1.55	.97	.72
						Super-220™ — RoHS Compliant			
7	500	0.023	24	96	340	IRFBA22N50APBF-ND	6.80	5.04	4.08
						Super-247 — RoHS Compliant			
9	500	0.087	46	180	540	IRFPS40N50LPBF-ND	12.67	9.86	8.17
	500	0.078	47	190	540	IRFPS43N50KPBF-ND	12.11	9.42	7.81
	500	0.125	34	140	450	IRFPS35N50LPBF-ND	9.15	6.77	5.49
	500	0.13	36	144	446	IRFPS37N50APBF-ND	8.91	6.60	5.35
	600	0.11	40	160	570	IRFPS40N60KPBF-ND	12.44	9.68	8.02
	600	0.12	38	150	540	IRFPS38N60LPBF-ND	13.54	10.53	8.73
	600	0.16	30	120	450	IRFPS30N60KPBF-ND	9.78	7.24	5.87
	600	0.175	29	110	480	IRFPS29N60LPBF-ND	10.36	7.67	6.22
						4-Pin Dip (HEXDIP®)			
6	50	0.2	1.7	—	—	IRFD010PBF-ND◆	1.00	.63	.47
	50	—	2.4	—	—	IRFD020PBF-ND◆	1.34	.84	.62
	60	0.1	2.5	20	1.3	IRFD024PBF-ND◆	1.34	.84	.62
	60	0.2	1.7	14	1.3	IRFD014PBF-ND◆	1.00	.63	.47
	100	0.27	1.3	10	1.3	IRFD123PBF-ND◆	1.60	1.00	.74
	100	0.3	1.3	5.2	1.0	IRFD120PBF-ND◆	1.36	.85	.63
	100	0.6	1.0	8.0	1.0	IRFD110PBF-ND◆	1.24	.72	.48
	200	0.8	0.8	6.4	1.0	IRFD220PBF-ND◆	1.20	.75	.56
	200	1.5	0.6	2.5	1.0	IRFD210PBF-ND◆	1.00	.63	.47
	250	1.1	0.63	5	1	IRFD224PBF-ND◆	1.72	1.08	.80
	250	2	0.45	3.6	1	IRFD214-ND	1.25	1.00	.72
	250	2	0.45	3.6	1	IRFD214PBF-ND◆	1.60	1.00	.74
	400	1.8	0.49	3.9	1	IRFD320PBF-ND◆	1.32	.83	.62
	400	3.6	0.35	2.8	1	IRFD310PBF-ND◆	1.88	1.18	.87
	500	3	0.46	3	1	IRFD420PBF-ND◆	2.10	1.35	1.05
	600	4.4	0.32	2.6	1	IRFDC20PBF-ND◆	2.23	1.44	1.12
						4-Pin Dip (HEXDIP®) Logic Level — RoHS Compliant			
6	60	0.1	2.5	20	1.3	IRLD024PBF-ND	1.40	.88	.65
	60	0.2	1.7	14	1.3	IRLD014PBF-ND	1.16	.73	.54
	100	0.27	1.3	10	1.3	IRLD120PBF-ND	1.42	.89	.66
	100	0.54	1	8	1.3	IRLD110PBF-ND	1.07	.67	.50

◆ RoHS Compliant

IGBT Transistors

Package	VCE	VCE (Sat) Max.	IC @ TC +25°C	Pulse Current ICM	Max. Power Dissipation	Delay Time (ns) Td (on)	Td (off)	Digi-Key Part No.	Price Each 1	10	100
IMS-2	600	1.93	5.7	11	23	23	125	CPV362M4K-ND	46.00	36.80	32.20
		2.2	7.2	22	23	42	120	CPV362M4U-ND	57.50	46.00	34.50
		1.63	16	50	36	37	400	CPV363M4F-ND	41.00	32.80	24.60
		2.2	11	22	36	55	107	CPV363M4K-ND	70.85	56.68	42.51
		2.2	13	40	36	43	140	CPV363M4U-ND	51.35	41.08	30.81
		2.3	24	48	63	50	170	CPV364M4K-ND	70.85	56.68	42.51
		2.1	20	60	63	41	140	CPV364M4U-ND	52.43	42.51	38.26

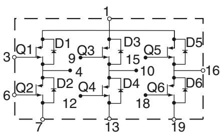

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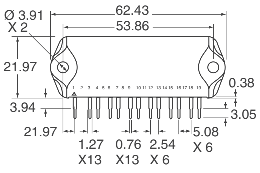

Schottky Rectifiers

SMB

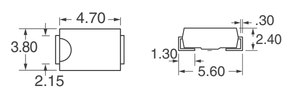

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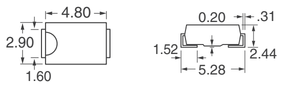

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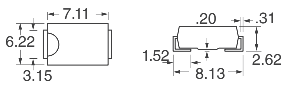

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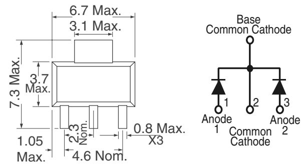

C-16

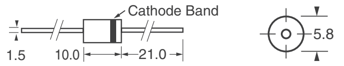

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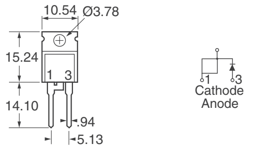

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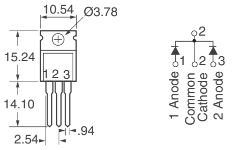

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5μs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
					SMB			
1	15	0.34	140	-55 ~ 150	10BQ015-ND	1.16	.73	.54
1	15	0.34	140	-55 ~ 150	10BQ015PBFCT-ND◆	1.19	.70	.47
1	15	0.34	140	-55 ~ 150	10BQ015PBFTR-ND◆	1008.00/3,000		
1	30	0.30	360	-55 ~ 150	STPS1L30UPBFCT-ND◆	.99	.58	.39
1	30	0.30	360	-55 ~ 150	STPS1L30UPBFTR-ND◆	839.55/3,000		
1	30	0.30	430	-55 ~ 150	10BQ030-ND	1.21	.71	.47
1	30	0.30	430	-55 ~ 150	10BQ030PBFCT-ND◆	.96	.57	.38
1	30	0.30	430	-55 ~ 150	10BQ030PBFTR-ND◆	813.45/3,000		
1	40	0.53	430	-55 ~ 150	10BQ040PBFCT-ND◆	.72	.42	.28
1	40	0.53	430	-55 ~ 150	10BQ040PBFTR-ND◆	630.00/3,000		
1	60	0.57	700	-55 ~ 150	10BQ060PBFCT-ND◆	.77	.45	.30
1	60	0.57	700	-55 ~ 150	10BQ060PBFTR-ND◆	675.00/3,000		
1	100	0.78	780	-55 ~ 175	10BQ100PBFCT-ND◆	1.01	.64	.47
1	100	0.78	780	-55 ~ 175	10BQ100PBFTR-ND◆	1101.00/3,000		
2	30	0.370	350	-55 ~ 150	20BQ030PBFCT-ND◆	.84	.50	.33
2	30	0.370	350	-55 ~ 150	20BQ030PBFTR-ND◆	738.00/3,000		
					SMA			
1.5	40	0.54	120	-55 ~ 150	10MQ040NPBFCT-ND◆	.83	.49	.33
1.5	40	0.54	120	-55 ~ 150	10MQ040NPBFTR-ND◆	1687.50/7,500		
3	40	0.42	330	-40 ~ 150	15MQ040NPBFCT-ND◆	1.13	.66	.44
3	40	0.42	330	-40 ~ 150	15MQ040NPBFTR-ND◆	2310.00/7,500		
1.5	60	0.63	40	-55 ~ 150	10MQ060N-ND	1.04	.61	.41
1.5	60	0.63	40	-55 ~ 150	10MQ060NPBFCT-ND◆	.83	.49	.33
1.5	60	0.63	40	-55 ~ 150	10MQ060NPBFTR-ND◆	1687.50/7,500		
1.5	100	0.78	120	-55 ~ 150	10MQ100N-ND	1.04	.61	.41
1.5	100	0.78	120	-55 ~ 150	10MQ100NPBFCT-ND◆	.83	.49	.33
1.5	100	0.78	120	-55 ~ 150	10MQ100NPBFTR-ND◆	1687.50/7,500		
					SMC			
3	15	0.35	650	-55 ~ 100	30BQ015PBFCT-ND◆	2.16	1.39	1.08
3	15	0.35	650	-55 ~ 100	30BQ015PBFTR-ND◆	2586.00/3,000		
3	40	0.51	2000	-55 ~ 150	30BQ040-ND	2.07	1.33	1.04
3	40	0.51	2000	-55 ~ 150	30BQ040PBFCT-ND◆	1.89	1.18	.88
3	40	0.51	2000	-55 ~ 150	30BQ040PBFTR-ND◆	1983.00/3,000		
3	40	0.43	1580	-55 ~ 150	MBRS340CT-ND	1.54	.96	.72
3	60	0.58	1200	-55 ~ 150	30BQ060PBFCT-ND◆	1.40	.88	.65
3	60	0.58	1200	-55 ~ 150	30BQ060PBFTR-ND◆	1470.00/3,000		
3	60	0.61	790	-55 ~ 150	MBRS360CT-ND	1.48	.93	.69
3	100	0.79	2100	-55 ~ 175	30BQ100PBFCT-ND◆	1.16	.73	.54
3	100	0.79	2100	-55 ~ 175	30BQ100TR-ND	1528.80/3,000		
3	100	0.79	2100	-55 ~ 175	30BQ100PBFTR-ND◆	1266.00/3,000		
					SOT-223			
2	45	0.54	390	-55 ~ 150	20CJQ045-ND	1.72	1.08	.80
2	60	0.56	385	-55 ~ 150	20CJQ060-ND	1.81	1.14	.84
2	100	0.56	385	-55 ~ 150	20CJQ100-ND	1.74	1.09	.81
					C-16 — RoHS Compliant			
3.3	40	0.55	470	-40 ~ 150	31DQ04-ND	1.03	.88	.61
3	40	0.6	430	-40 ~ 150	MBR340IR-ND	.83	.49	.33
3	50	0.73	460	-40 ~ 150	MBR350-ND	.81	.48	.32
3.3	50	0.58	340	-40 ~ 150	31DQ05-ND	1.18	.69	.46
3	60	0.73	460	-40 ~ 150	MBR360-ND	.80	.47	.32
3.3	60	0.58	340	-40 ~ 150	31DQ06-ND	1.17	.74	.55
3.3	90	0.85	210	-40 ~ 150	31DQ09-ND	1.04	.65	.49
3.3	90	0.85	210	-40 ~ 150	31DQ09TR-ND	468.00/1,200		
3.3	100	0.85	210	-40 ~ 150	31DQ10-ND	1.17	.74	.55

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5μs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
					TO-220AC			
19	15	0.32	700	-55 ~ 100	19TQ015-ND	4.58	3.05	2.44
19	15	0.32	700	-55 ~ 100	19TQ015PBF-ND◆	3.66	2.44	1.96
20	15	0.25	700	-55 ~ 125	20L15TPBF-ND◆	2.34	1.51	1.18
20	15	0.25	700	-55 ~ 125	STPS20L15DPBF-ND◆	2.12	1.37	1.06
6	35	0.53	690	-55 ~ 175	6TQ035PBF-ND◆	2.80	1.80	1.40
7.5	35	0.84	690	-65 ~ 150	MBR735PBF-ND◆	1.43	.90	.67
10	35	0.49	1050	-55 ~ 175	10TQ035PBF-ND◆	2.70	1.74	1.35
10	35	0.84	1080	-65 ~ 150	MBR1035PBF-ND◆	1.69	1.06	.79
15	35	0.50	990	-55 ~ 150	12TQ035PBF-ND◆	2.70	1.74	1.35
16	35	0.63	1060	-65 ~ 150	MBR1635PBF-ND◆	2.14	1.38	1.07
18	35	0.6	1800	-55 ~ 175	18TQ035-ND	3.00	2.00	1.60
18	35	0.6	1800	-55 ~ 175	18TQ035PBF-ND◆	2.80	1.80	1.40
20	35	0.51	1800	-55 ~ 150	20TQ035PBF-ND◆	2.94	1.89	1.47
6	40	0.53	690	-55 ~ 175	6TQ040PBF-ND◆	2.91	1.87	1.46
10	40	0.49	1050	-55 ~ 175	10TQ040PBF-ND◆	2.84	1.83	1.42
15	40	0.50	990	-55 ~ 150	12TQ040PBF-ND◆	2.87	1.85	1.44
18	40	0.53	1800	-55 ~ 175	18TQ040PBF-ND◆	2.98	1.92	1.49
20	40	0.51	1800	-55 ~ 150	20TQ040PBF-ND◆	3.12	2.01	1.56
7.5	45	0.57	690	-65 ~ 150	MBR745IR-ND	1.80	1.13	.84
7.5	45	0.57	690	-65 ~ 150	MBR745PBF-ND◆	1.44	.90	.67
10	45	0.57	1050	-65 ~ 150	MBR1045PBF-ND◆	1.69	1.06	.79
15	45	0.50	990	-55 ~ 150	12TQ045PBF-ND◆	3.01	1.94	1.51
16	45	0.57	1800	-65 ~ 150	MBR1645PBF-ND◆	2.13	1.37	1.07
6	45	0.53	690	-55 ~ 175	6TQ045PBF-ND◆	3.12	2.01	1.56
10	45	0.57	1050	-55 ~ 175	10TQ045PBF-ND◆	2.98	1.92	1.49
18	45	0.6	1800	-55 ~ 175	18TQ045PBF-ND◆	2.98	1.92	1.49
20	45	0.57	1800	-65 ~ 150	20TQ045PBF-ND◆	3.26	2.10	1.63
8	60	0.72	850	-55 ~ 175	8TQ060PBF-ND◆	3.29	2.12	1.65
15	60	0.56	1000	-55 ~ 150	15TQ060PBF-ND◆	3.33	2.14	1.67
8	80	0.72	850	-55 ~ 175	8TQ080PBF-ND◆	3.25	2.17	1.74
8	100	0.58	850	-55 ~ 175	8TQ100PBF-ND◆	3.09	2.06	1.65
					TO-220AB			
40	15	0.41	700	-55 ~ 125	40L15CTPBF-ND◆	4.21	2.81	2.25
40	15	0.25	700	-55 ~ 125	STPS40L15CTPBF-ND◆	3.27	2.11	1.64
40	20	0.34	1000	-55 ~ 150	47CTQ020PBF-ND◆	3.18	2.12	1.70
30	25	0.40	900	-55 ~ 150	32CTQ025-ND	3.94	2.63	2.11
30	30	0.37	—	-55 ~ 150	STPS30L30CTIR-ND	3.14	2.10	1.68
30	30	0.37	—	-55 ~ 150	STPS30L30CTPBF-ND◆	2.93	1.89	1.47
30	30	0.40	900	-55 ~ 150	32CTQ030-ND	4.09	2.73	2.19
30	30	0.40	900	-55 ~ 150	32CTQ030PBF-ND◆	3.27	2.18	1.75
30	30	0.37	1450	-55 ~ 150	30L30CTPBF-ND◆	2.93	1.89	1.47
40	30	0.48	1100	-55 ~ 150	42CTQ030PBF-ND◆	3.90	2.60	2.08
60	30	0.44	1500	-65 ~ 150	62CTQ030PBF-ND◆	3.75	2.50	2.00
15	35	0.72	690	-65 ~ 150	MBR1535CTPBF-ND◆	1.78	1.15	.89
20	35	0.57	1060	-65 ~ 150	MBR2035CTPBF-ND◆	2.13	1.37	1.07
12	35	0.53	690	-55 ~ 175	12CTQ035PBF-ND◆	2.56	1.65	1.28
15	35	0.51	810	-55 ~ 150	15CTQ035-ND	3.20	2.06	1.60
15	35	0.51	810	-55 ~ 150	15CTQ035PBF-ND◆	2.56	1.65	1.28
20	35	0.57	1060	-55 ~ 175	20CTQ035-ND	3.38	2.25	1.80
20	35	0.57	1060	-55 ~ 175	20CTQ035PBF-ND◆	3.15	2.03	1.58
30	35	0.50	990	-55 ~ 150	25CTQ035PBF-ND◆	3.30	2.20	1.76
30	35	0.73	1060	-65 ~ 150	MBR2535CTPBF-ND◆	2.37	1.53	1.19
15	40	0.51	810	-55 ~ 150	15CTQ040PBF-ND◆	2.63	1.69	1.32
12	40	0.53	690	-55 ~ 175	12CTQ040PBF-ND◆	2.63	1.69	1.32

◆ RoHS Compliant

(Continued)

Schottky Rectifiers *(Cont.)*

TO-244AB

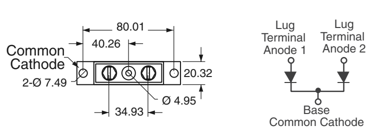

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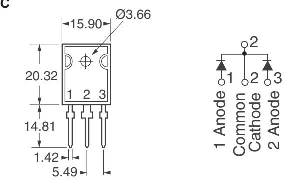

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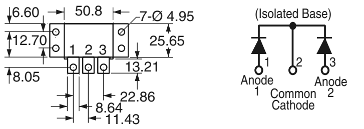

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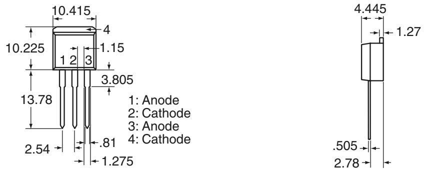

DO-41/DO-204AL

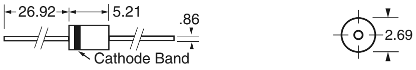

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5μs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
20	40	0.57	1060	-55 ~ 175	20CTQ040-ND	3.95	2.64	2.11
20	40	0.57	1060	-55 ~ 175	20CTQ040PBF-ND◆	3.16	2.11	1.69
30	40	0.56	1060	-55 ~ 175	30CTQ040PBF-ND◆	3.29	2.12	1.65
30	40	0.50	990	-55 ~ 150	25CTQ040PBF-ND◆	3.39	2.26	1.81
12	45	0.53	690	-55 ~ 175	12CTQ045PBF-ND◆	2.73	1.76	1.37
15	45	0.51	810	-55 ~ 150	15CTQ045PBF-ND◆	2.73	1.76	1.37
40	45	0.6	900	-65 ~ 150	MBR4045CTPBF-ND◆	2.54	1.64	1.28
15	45	0.57	690	-65 ~ 150	MBR1545CTPBF-ND◆	1.78	1.15	.89
20	45	0.57	1060	-65 ~ 150	MBR2045CTIR-ND	2.67	1.72	1.34
20	45	0.57	1060	-65 ~ 150	MBR2045CTPBF-ND◆	2.14	1.38	1.07
30	45	0.73	1060	-65 ~ 150	MBR2545CTIR-ND	3.13	2.02	1.57
30	45	0.73	1060	-65 ~ 150	MBR2545CTPBF-ND◆	2.51	1.62	1.26
30	45	0.76	1020	-65 ~ 150	MBR3045CTPBF-ND◆	3.12	2.08	1.67
20	45	0.64	1060	-55 ~ 175	20CTQ045PBF-ND◆	3.15	2.03	1.58
30	45	0.50	990	-55 ~ 150	25CTQ045PBF-ND◆	3.75	2.50	2.00
30	45	0.62	1060	-55 ~ 175	30CTQ045PBF-ND◆	3.34	2.23	1.79
40	45	0.53	1240	-55 ~ 150	40CTQ045PBF-ND◆	3.45	2.30	1.84
60	45	0.53	1500	-65 ~ 150	60CTQ045PBF-ND◆	5.22	3.48	2.79
60	45	0.57	2600	-65 ~ 175	61CTQ045PBF-ND◆	4.83	3.22	2.58
30	50	0.56	1000	-55 ~ 150	30CTQ050PBF-ND◆	3.42	2.28	1.83
16	60	0.58	850	-55 ~ 175	16CTQ060PBF-ND◆	2.59	1.67	1.30
30	60	0.62	1060	-55 ~ 150	30CTQ060PBF-ND◆	4.08	2.72	2.18
40	60	0.75	1000	-55 ~ 150	48CTQ060PBF-ND◆	3.54	2.36	1.89
16	80	0.72	850	-55 ~ 175	16CTQ080PBF-ND◆	4.23	2.82	2.26
30	80	0.67	850	-55 ~ 175	30CTQ080PBF-ND◆	2.62	1.69	1.31
20	90	0.85	850	-65 ~ 150	MBR2090CTPBF-ND◆	2.14	1.38	1.07
40	100	0.81	850	-55 ~ 175	43CTQ100PBF-ND◆	3.48	2.24	1.74
16	100	0.72	850	-55 ~ 175	16CTQ100PBF-ND◆	2.78	1.79	1.39
30	100	0.67	850	-55 ~ 175	30CTQ100PBF-ND◆	2.62	1.69	1.32
60	100	0.69	1500	-65 ~ 175	63CTQ100PBF-ND◆	6.56	4.37	3.50
10	150	0.73	620	-55 ~ 175	10CTQ150PBF-ND◆	3.89	2.60	2.08
20	150	0.66	1030	-55 ~ 175	20CTQ150PBF-ND◆	2.87	1.85	1.44
40	150	0.71	150	-55 ~ 175	40CTQ150PBF-ND◆	3.48	2.24	1.74
60	150	0.69	710	-55 ~ 175	60CTQ150PBF-ND◆	4.20	2.80	2.24
TO-244AB								
400	15	0.47	4000	-55 ~ 175	445CNQ015-ND◆	67.50	54.00	41.85
200	35	0.49	26000	-55 ~ 150	200CNQ035-ND◆	62.50	50.00	37.50
200	35	0.58	16000	-55 ~ 175	201CNQ035-ND◆	63.02	50.42	37.82
300	35	0.59	16000	-55 ~ 175	301CNQ035-ND◆	62.50	50.00	37.50
200	40	0.49	26000	-55 ~ 150	200CNQ040-ND◆	62.50	50.00	37.50
200	40	0.58	16000	-55 ~ 175	201CNQ040-ND◆	63.02	50.42	37.82
300	40	0.62	600	-55 ~ 175	300CNQ040-ND	34.31	27.45	21.00
300	40	0.59	16000	-55 ~ 175	301CNQ040-ND◆	62.50	50.00	37.50
200	45	0.49	26000	-55 ~ 150	200CNQ045-ND◆	60.37	48.30	36.23
200	45	0.58	16000	-55 ~ 175	201CNQ045-ND◆	62.50	50.00	37.50
200	50	0.58	16000	-55 ~ 175	201CNQ050-ND◆	63.02	50.42	37.82
300	50	0.59	16000	-55 ~ 175	301CNQ050-ND◆	62.50	50.00	37.50
200	80	0.70	16000	-55 ~ 175	203CNQ080-ND◆	62.50	50.00	37.50
300	100	0.72	22000	-55 ~ 175	303CNQ100-ND◆	70.00	56.00	42.00
200	135	0.71	10000	-55 ~ 175	209CNQ135-ND◆	54.37	43.50	38.07
TO-247AC								
40	15	0.25	700	-55 ~ 125	40L15CW-ND	5.25	3.50	2.80
40	15	0.25	700	-55 ~ 125	40L15CWPBF-ND◆	4.20	2.80	2.24
40	15	0.26	700	-55 ~ 125	MBR40L15CW-ND	3.95	2.77	2.10
40	15	0.26	700	-55 ~ 125	MBR40L15CWPBF-ND◆	3.01	2.01	1.61
40	15	0.25	700	-55 ~ 125	STPS40L15CWPBF-ND◆	3.00	2.01	1.61
65	15	0.46	1500	-55 ~ 125	65PQ015PBF-ND◆	4.50	3.00	2.40
80	20	0.32	2200	-55 ~ 150	80CPQ020PBF-ND◆	5.10	3.40	2.72
50	30	0.38	2180	-55 ~ 150	52CPQ030PBF-ND◆	11.25	8.33	6.75
70	30	0.51	2180	-55 ~ 150	72CPQ030PBF-ND◆	6.33	4.69	3.80
30	35	0.50	1020	-55 ~ 150	30CPQ035-ND	5.40	3.60	2.88
30	35	0.50	1020	-55 ~ 150	30CPQ035PBF-ND◆	4.32	2.88	2.31
30	35	0.60	1020	-65 ~ 150	MBR3035WTPBF-ND◆	2.66	1.71	1.33
40	35	0.43	3500	-55 ~ 150	40CPQ035PBF-ND◆	6.00	4.00	3.20
30	40	0.50	1020	-55 ~ 150	30CPQ040-ND	6.33	4.22	3.38
30	40	0.50	1020	-55 ~ 150	30CPQ040PBF-ND◆	7.32	4.88	3.91
40	40	0.43	3500	-55 ~ 150	40CPQ040PBF-ND◆	6.46	4.78	3.88
40	40	0.42	1240	-55 ~ 150	40L40CWPBF-ND◆	4.50	3.00	2.40
40	40	0.43	3500	-55 ~ 150	STPS40L40CWPBF-ND◆	3.73	2.49	2.00
40	45	0.42	1240	-55 ~ 150	STPS40L45CWPBF-ND◆	3.04	2.03	1.63
30	45	0.60	1020	-65 ~ 150	MBR3045WTPBF-ND◆	2.66	1.72	1.34
40	45	0.42	1240	-55 ~ 150	40L45CWPBF-ND◆	4.50	3.00	2.40
40	45	0.59	1020	-55 ~ 150	MBR4045WTPBF-ND◆	2.88	1.86	1.45
60	45	0.69	2900	-55 ~ 150	MBR6045WTPBF-ND◆	3.81	2.54	2.04
30	45	0.50	1020	-55 ~ 150	30CPQ045-ND	6.58	4.87	3.95
30	45	0.50	1020	-55 ~ 150	30CPQ045PBF-ND◆	6.31	4.21	3.37
40	45	0.43	3500	-55 ~ 150	40CPQ045-ND	8.22	6.09	4.94
40	45	0.43	3500	-55 ~ 150	40CPQ045PBF-ND◆	6.58	4.87	3.95
30	50	0.50	1020	-55 ~ 150	30CPQ050-ND	5.81	3.88	3.11
30	50	0.50	1020	-55 ~ 150	30CPQ050PBF-ND◆	4.65	3.10	2.48
40	50	0.49	3200	-55 ~ 150	40CPQ050PBF-ND◆	7.08	5.24	4.25
40	60	0.77	3200	-55 ~ 150	MBR4060WTPBF-ND◆	3.36	2.24	1.80
30	60	0.50	1020	-55 ~ 150	30CPQ060PBF-ND◆	6.87	4.58	3.67
40	60	0.49	3200	-55 ~ 150	40CPQ060PBF-ND◆	7.95	5.89	4.77
30	60	0.56	1020	-55 ~ 150	STPS30L60CWPBF-ND◆	2.98	1.92	1.49
30	80	0.67	920	-55 ~ 175	30CPQ080-ND	8.71	6.45	5.23
30	80	0.67	920	-55 ~ 175	30CPQ080PBF-ND◆	6.97	5.16	4.19
40	80	0.61	2950	-55 ~ 175	40CPQ080PBF-ND◆	10.59	7.06	5.65
30	90	0.67	920	-55 ~ 175	30CPQ090-ND	5.25	3.50	2.80
30	90	0.67	920	-55 ~ 175	30CPQ090PBF-ND◆	4.20	2.80	2.24
30	100	0.67	920	-55 ~ 175	30CPQ100-ND	8.41	6.23	5.05
30	100	0.67	920	-55 ~ 175	30CPQ100PBF-ND◆	6.73	4.98	4.04
40	100	0.77	2950	-55 ~ 175	40CPQ100PBF-ND◆	9.40	6.96	5.64
60	100	0.64	2200	-55 ~ 175	63CPQ100PBF-ND◆	6.25	4.63	3.75
30	140	0.67	920	-55 ~ 175	30CPQ140PBF-ND◆	6.43	4.76	3.86
30	150	1	1000	-55 ~ 175	30CPQ150PBF-ND◆	7.38	5.46	4.43
60	150	0.67	2300	-55 ~ 175	60CPQ150PBF-ND◆	5.77	3.85	3.08
80	150	0.71	1930	-55 ~ 175	80CPQ150PBF-ND◆	7.35	5.44	4.41
TO-249AA — RoHS Compliant								
160	30	0.46	7900	-55 ~ 150	162CNQ030-ND	62.50	50.00	37.50
300	30	0.56	10000	-55 ~ 150	322CNQ030-ND	62.50	50.00	37.50
160	35	0.60	6400	-55 ~ 150	160CMQ035-ND	62.50	50.00	37.50
160	35	0.63	11500	-55 ~ 175	161CMQ035-ND	62.50	50.00	37.50
160	40	0.60	6400	-55 ~ 150	160CMQ040-ND	62.50	50.00	37.50
160	40	0.63	11500	-55 ~ 175	161CMQ040-ND	62.50	50.00	37.50
160	45	0.60	6400	-55 ~ 150	160CNQ045-ND	62.50	50.00	37.50
160	45	0.63	11500	-55 ~ 175	161CNQ045-ND	62.50	50.00	37.50
160	80	0.80	9000	-55 ~ 175	163CMQ080-ND	62.50	50.00	37.50
160	100	0.80	9000	-55 ~ 175	163CNQ100-ND	62.50	50.00	37.50
160	100	0.98	9000	-55 ~ 175	163CMQ100-ND	62.50	50.00	37.50

◆ RoHS Compliant

(Continued)

DO-204AR

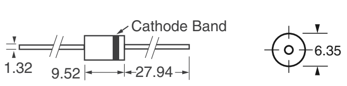

D-60

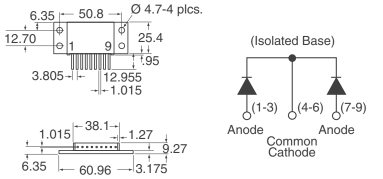

D61-8

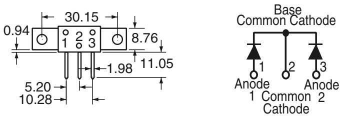

D61-8-SL

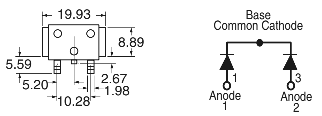

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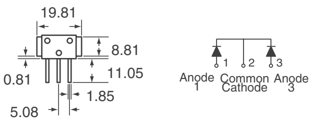

D-PAK

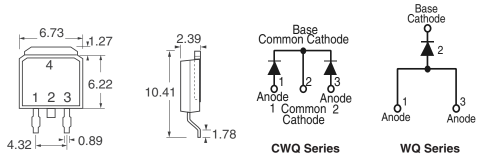

CWQ Series

WQ Series

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
					TO-262			
40	15	0.25	700	-55 ~ 125	40L15CT-1PBF-ND◆	4.85	3.23	2.59
40	20	0.34	1000	-55 ~ 150	47CTQ020-1-ND	4.19	2.80	2.24
30	30	0.40	900	-55 ~ 150	32CTQ030-1PBF-ND◆	3.73	2.49	1.99
40	30	0.38	1100	-55 ~ 150	42CTQ030-1-ND	5.11	4.09	3.07
30	35	0.73	1060	-65 ~ 150	MBR2535CT-1-ND	2.45	1.97	1.48
15	35	0.57	690	-65 ~ 150	MBR1535CT-1-ND	2.58	1.66	1.29
30	45	0.56	1060	-55 ~ 175	30CTQ045-1PBF-ND◆	3.03	1.96	1.52
40	45	0.48	1240	-55 ~ 150	40CTQ045-1PBF-ND◆	3.33	2.22	1.78
15	45	0.84	690	-65 ~ 150	MBR1545CT-1-ND	1.84	1.48	1.11
20	45	0.57	1060	-65 ~ 150	MBR2045CT-1-ND	3.84	2.56	2.05
20	45	0.57	1060	-65 ~ 150	MBR2045CT-1PBF-ND◆	3.07	2.05	1.64
30	45	0.73	1060	-65 ~ 150	MBR2545CT-1-ND	3.43	2.21	1.72
30	45	0.73	1060	-65 ~ 150	MBR2545CT-1PBF-ND◆	2.75	1.77	1.38
30	45	0.6	1020	-65 ~ 150	MBR3045CT-1-ND	4.19	2.80	2.24
30	45	0.6	1020	-65 ~ 150	MBR3045CT-1PBF-ND◆	3.35	2.24	1.79
40	45	0.6	900	-65 ~ 150	MBR4045CT-1PBF-ND◆	2.97	1.91	1.49
30	60	0.56	1000	-55 ~ 150	30CTQ060-1PBF-ND◆	2.91	1.87	1.46
40	60	0.58	1000	-55 ~ 150	48CTQ060-1PBF-ND◆	4.94	3.30	2.64
20	80	0.70	850	-65 ~ 150	MBR2080CT-1-ND	3.43	2.21	1.72
30	80	0.67	850	-55 ~ 175	30CTQ080-1PBF-ND◆	3.81	2.55	2.04
20	90	0.70	850	-65 ~ 150	MBR2090CT-1-ND	3.43	2.46	1.72
16	100	0.58	850	-55 ~ 175	16CTQ100-1PBF-ND◆	2.78	1.79	1.39
20	100	0.70	850	-65 ~ 150	MBR20100CT-1PBF-ND◆	3.44	2.30	1.84
40	100	0.67	850	-55 ~ 175	43CTQ100-1PBF-ND◆	3.48	2.32	1.86
10	150	0.73	620	-55 ~ 175	10CTQ150-1-ND	3.00	1.93	1.50
					DO-41/DO-204AL — RoHS Compliant			
1	30	0.55	225	-40 ~ 150	1N5818IR-ND	.67	.38	.23
1.1	30	0.55	225	-40 ~ 150	11DQ03-ND	.52	.30	.20
1.1	30	0.55	225	-40 ~ 150	11DQ03TR-ND	725.00/5,000		
3.3	30	0.55	470	-40 ~ 150	31DQ03-ND	1.08	.63	.42
1	40	0.55	225	-40 ~ 150	1N5819IR-ND	.54	.32	.21
1.1	40	0.55	225	-40 ~ 150	11DQ04-ND	.52	.30	.20
1.1	40	0.55	225	-40 ~ 150	11DQ04TR-ND	725.00/5,000		
1	50	0.65	150	-40 ~ 150	MBR150-ND	.58	.34	.22
1.1	50	0.58	150	-40 ~ 150	11DQ05-ND	.28	.22	.16
1	60	0.65	150	-40 ~ 150	MBR160-ND	.43	.25	.16
1.1	60	0.58	150	-40 ~ 150	11DQ06-ND	.57	.33	.22
1.1	60	0.58	150	-40 ~ 150	11DQ06TR-ND	800.00/5,000		
1.1	90	0.85	85	-40 ~ 150	11DQ09-ND	.62	.36	.24
1.1	90	0.85	85	-40 ~ 150	11DQ09TR-ND	810.00/5,000		
1	100	0.68	200	-40 ~ 150	MBR1100-ND	.40	.23	.15
1.1	100	0.85	85	-40 ~ 150	11DQ10-ND	.62	.36	.24
					DO-204AR — RoHS Compliant			
9	15	0.31	2900	-55 ~ 100	95SQ015-ND	3.47	2.39	1.90
8	30	0.44	2400	-55 ~ 175	80SQ030-ND	2.07	1.33	1.04
9	30	0.42	2150	-55 ~ 150	90SQ030-ND	1.55	1.24	.93
8	35	0.53	2400	-55 ~ 175	80SQ035-ND	1.50	1.20	.86
8	35	0.53	2400	-55 ~ 175	80SQ035TR-ND	1215.00/1,500		
9	35	0.42	2150	-55 ~ 150	90SQ035-ND	2.21	1.42	1.11
8	40	0.53	2400	-55 ~ 175	80SQ040-ND	1.84	1.47	1.06
9	40	0.48	2150	-55 ~ 150	90SQ040-ND	2.46	1.59	1.24
8	45	0.53	2400	-55 ~ 175	80SQ045-ND	2.56	1.65	1.28
8	45	0.53	2400	-55 ~ 175	80SQ045TR-ND	1533.00/1,500		
9	45	0.48	2150	-55 ~ 150	90SQ045-ND	2.38	1.53	1.19
5	60	0.65	225	-65 ~ 150	50SQ060-ND	2.66	1.71	1.33

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
5	80	0.66	1900	-55 ~ 175	50SQ080-ND	2.80	1.80	1.40
5	100	0.52	1900	-55 ~ 175	50SQ100-ND	3.12	2.01	1.56
5	100	0.52	1900	-55 ~ 175	50SQ100TR-ND	1869.00/1,500		
					D-60			
150	15	0.80	—	-55 ~ 175	155CMQ015-ND◆	62.50	50.00	40.00
150	30	0.65	9200	-55 ~ 175	152CMQ030-ND	29.59	23.67	17.76
150	35	0.60	6600	-55 ~ 150	150CMQ035-ND◆	62.50	50.00	37.50
150	35	0.65	9200	-55 ~ 175	151CMQ035-ND◆	62.50	50.00	37.50
150	40	0.60	6600	-55 ~ 150	150CMQ040-ND◆	62.50	50.00	37.50
150	40	0.65	9200	-55 ~ 175	151CMQ040-ND◆	62.50	50.00	37.50
150	45	0.60	6600	-55 ~ 150	150CMQ045-ND◆	62.50	50.00	37.50
150	45	0.65	9200	-55 ~ 175	151CMQ045-ND◆	62.50	50.00	37.50
150	45	0.60	6600	-55 ~ 150	150CNQ045-ND	26.87	21.50	16.12
150	80	0.80	7000	-55 ~ 175	153CMQ080-ND◆	71.33	57.06	42.80
					D61-8			
80	15	0.36	5200	-55 ~ 100	85CNQ015APBF-ND◆	17.87	13.90	11.52
110	15	0.33	5050	-55 ~ 125	115CNQ015APBF-ND◆	15.03	11.70	9.69
80	20	0.32	6000	-55 ~ 150	87CNQ020APBF-ND◆	16.66	12.96	10.74
80	30	0.37	5100	-55 ~ 150	82CNQ030APBF-ND◆	16.93	13.17	10.91
110	30	0.39	5100	-55 ~ 150	112CNQ030APBF-ND◆	17.87	13.90	11.52
80	35	0.47	5800	-55 ~ 150	80CNQ035A-ND	19.92	15.40	13.32
80	35	0.47	5800	-55 ~ 150	80CNQ035APBF-ND◆	16.30	12.68	10.51
80	35	0.54	4600	-55 ~ 175	81CNQ035A-ND	16.46	12.81	10.61
80	40	0.47	5800	-55 ~ 150	80CNQ040APBF-ND◆	16.30	12.68	10.51
80	40	0.54	4600	-55 ~ 175	81CNQ040A-ND	16.10	12.44	10.76
80	45	0.47	5800	-55 ~ 150	80CNQ045APBF-ND◆	16.85	13.11	10.86
80	45	0.54	4600	-55 ~ 175	81CNQ045APBF-ND◆	16.46	12.81	10.61
110	45	0.55	4000	-55 ~ 175	111CNQ045APBF-ND◆	18.43	14.34	11.88
110	45	0.5	5400	-55 ~ 150	110CNQ045APBF-ND◆	18.18	14.15	11.72
80	80	0.67	7000	-55 ~ 175	83CNQ080APBF-ND◆	16.82	13.09	10.85
80	100	0.67	7000	-55 ~ 175	83CNQ100APBF-ND◆	16.82	13.09	10.85
110	100	0.67	7000	-55 ~ 175	113CNQ100APBF-ND◆	18.43	14.34	11.88
					D61-8-SL			
110	15	0.33	5050	-55 ~ 125	115CNQ015ASL-ND	15.03	11.70	9.69
80	35	0.47	5800	-55 ~ 150	80CNQ035ASL-ND	16.30	12.68	10.51
80	35	0.54	4600	-55 ~ 175	81CNQ035ASL-ND	16.46	12.81	10.61
80	40	0.54	4600	-55 ~ 175	81CNQ040ASL-ND	16.46	12.81	10.61
80	45	0.54	4600	-55 ~ 175	81CNQ045ASL-ND	16.46	12.81	10.61
110	45	0.5	5400	-55 ~ 150	110CNQ045ASL-ND	17.47	13.51	11.68
110	45	0.55	4000	-55 ~ 175	111CNQ045ASL-ND	18.11	14.09	11.68
80	80	0.67	7000	-55 ~ 175	83CNQ080ASL-ND	16.14	12.48	10.79
110	100	0.67	7000	-55 ~ 175	113CNQ100ASL-ND	18.43	14.34	11.88
					D61-8-SM			
110	15	0.33	5050	-55 ~ 125	115CNQ015ASM-ND	14.70	11.36	9.83
80	30	0.37	5100	-55 ~ 150	82CNQ030ASM-ND	16.24	12.56	10.86
80	35	0.54	4600	-55 ~ 175	81CNQ035ASM-ND	16.46	12.81	10.61
80	40	0.47	5800	-55 ~ 150	80CNQ040ASM-ND	16.30	12.68	10.51
80	40	0.54	4600	-55 ~ 175	81CNQ040ASM-ND	16.10	12.44	10.76
80	45	0.47	5800	-55 ~ 150	80CNQ045ASM-ND	15.94	12.32	10.65
80	45	0.54	4600	-55 ~ 175	81CNQ045ASM-ND	16.46	12.81	10.61
110	45	0.5	5400	-55 ~ 150	110CNQ045ASM-ND	18.18	14.15	11.72
80	60	0.56	5000	-55 ~ 150	88CNQ060ASM-ND	16.57	12.77	10.99
80	80	0.67	7000	-55 ~ 175	83CNQ080ASM-ND	16.82	13.09	10.85
					D-PAK			
12	30	0.47	320	-55 ~ 150	12CWQ03FN-ND	2.04	1.32	1.03
12	30	0.47	320	-55 ~ 150	12CWQ03FNTR-ND	1636.00/2,000		
3.5	30	0.45	535	-40 ~ 150	30WQ03FN-ND	1.74	1.09	.81

◆ RoHS Compliant

(Continued)

VISHAY Schottky Rectifiers *(Cont.)*

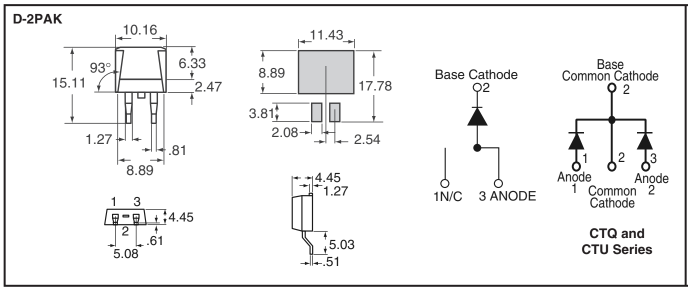

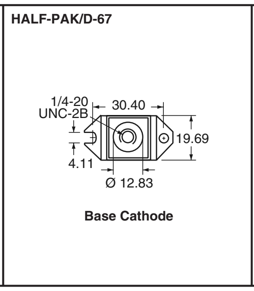

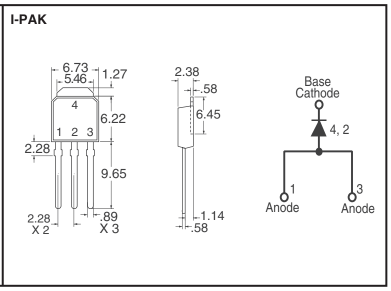

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
3	30	0.49	490	-40 ~ 150	MBRD330-ND	1.42	.89	.66
7	40	0.49	500	-40 ~ 150	6CWQ04FNTRCT-ND	1.97	1.27	.99
7	40	0.49	500	-40 ~ 150	6CWQ04FNTR-ND	1576.00/2,000		
3	40	0.49	490	-40 ~ 150	MBRD340-ND	1.60	1.00	.74
6	60	0.65	490	-40 ~ 150	MBRD660CT-ND	1.77	1.11	.82
3.5	60	0.61	490	-40 ~ 150	30WQ06FNTR-ND	1694.00/2,000		
5.5	60	0.57	320	-40 ~ 150	50WQ06FN-ND	2.38	1.53	1.19
5.5	60	0.57	320	-40 ~ 150	50WQ06FNTRR-ND	2856.00/3,000		
7	100	0.81	440	-40 ~ 150	6CWQ10FN-ND	2.71	1.75	1.36
7	100	0.81	440	-40 ~ 150	6CWQ10FNTR-ND	2170.00/2,000		
12	100	0.8	330	-55 ~ 150	12CWQ10FN-ND	2.04	1.32	1.03
3.5	100	0.81	440	-40 ~ 150	30WQ10FN-ND	1.41	1.13	.81
D-2PAK								
19	15	0.36	700	-55 ~ 100	19TQ015STRL-ND	2184.00/800		
30	30	0.49	1000	-55 ~ 150	32CTQ030STRL-ND	1932.00/800		
40	30	0.48	1100	-55 ~ 150	42CTQ030STRL-ND	1556.00/800		
15	35	0.50	990	-55 ~ 150	12TQ035S-ND	3.38	2.70	2.03
20	35	0.57	1060	-55 ~ 175	20CTQ035S-ND	3.97	3.18	2.39
20	35	0.51	1800	-55 ~ 150	20TQ035S-ND	3.19	2.55	1.92
30	35	0.56	1060	-55 ~ 175	30CTQ035S-ND	3.96	3.17	2.38
15	35	0.57	690	-65 ~ 150	MBRB1535CT-ND	3.15	2.10	1.68
15	35	0.57	690	-65 ~ 150	MBRB1535CTPBF-ND◆	2.94	1.89	1.47
16	35	0.57	1800	-65 ~ 150	MBRB1635PBF-ND◆	2.39	1.54	1.20
20	35	0.57	1060	-65 ~ 150	MBRB2035CT-ND	3.20	2.56	1.92
7.5	45	0.57	690	-65 ~ 150	MBRB745PBF-ND◆	2.02	1.30	1.01
16	45	0.57	1800	-65 ~ 150	MBRB1645PBF-ND◆	3.09	2.07	1.65
10	45	0.57	1060	-65 ~ 150	MBRB1045-ND	2.97	2.38	1.43
12	45	0.53	690	-55 ~ 175	12CTQ045S-ND	2.66	2.13	1.60
20	45	0.57	1060	-55 ~ 175	20CTQ045S-ND	4.00	3.20	2.40
30	45	0.73	1060	-65 ~ 150	MBRB2545CTTRL-ND	1792.00/800		
15	60	0.56	1000	-55 ~ 150	15TQ060S-ND	4.37	3.50	2.63
30	60	0.62	1060	-55 ~ 150	30CTQ060STRLPBFCT-ND◆	4.83	3.22	2.58
30	60	0.62	1060	-55 ~ 150	30CTQ060STRLPBFTR-ND◆	1803.20/800		
16	80	0.58	850	-55 ~ 175	16CTQ080S-ND	3.48	2.24	1.74
20	80	0.70	850	-65 ~ 150	MBRB2080CT-ND	5.60	4.48	3.59
8	100	0.72	850	-55 ~ 175	8TQ100STRR-ND	1792.00/800		
16	100	0.72	850	-55 ~ 175	16CTQ100S-ND	5.72	4.58	3.28
20	100	0.95	850	-65 ~ 150	MBRB20100CTTRL-ND	1608.00/800		
10	150	0.93	620	-55 ~ 175	10CTQ150S-ND	4.59	3.06	2.45
16	400	1.19	100	-65 ~ 175	16CTU04S-ND	3.08	1.99	1.55
Half-Pak/D-67								
120	15	0.39	10800	-55 ~ 100	125NQ015-ND◆	25.00	20.00	14.29
120	15	0.39	10800	-55 ~ 100	125NQ015R-ND◆	25.00	20.00	14.29
180	15	0.4	15000	-55 ~ 100	185NQ015R-ND	19.16	14.90	12.35
120	35	0.56	19800	-55 ~ 175	121NQ035-ND◆	25.00	20.00	15.00
180	35	0.56	25500	-55 ~ 150	180NQ035-ND◆	30.00	24.00	18.00
240	40	0.55	26000	-55 ~ 150	240NQ040-ND◆	33.75	27.00	20.25
240	40	0.59	25000	-55 ~ 175	241NQ040-ND	24.14	19.32	14.49
180	45	0.56	22000	-55 ~ 175	181NQ045R-ND◆	30.00	24.00	18.00

◆ ***RoHS Compliant***

Bridge Rectifiers

Operating Temperature Range: -40°C ~ 150°C **Storage Temperature Range:** -40°C ~ 150°C

RoHS COMPLIANT

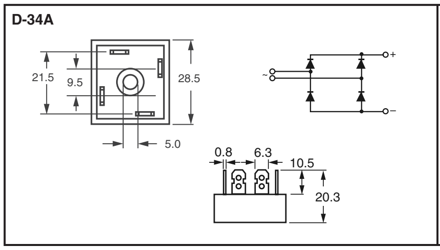

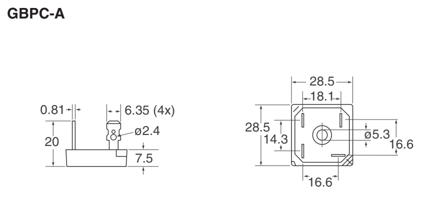

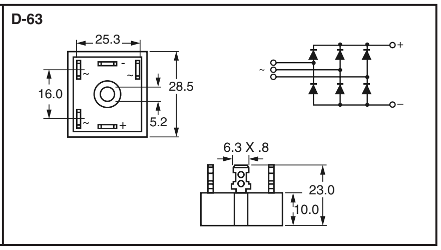

Pkg.	Max. Peak Reverse Volt. (V)	Max. Surge Current 10ms (A)	Max. Instant Forward Volt. (V)	Max. Ave. Rectified Current (A)	Digi-Key Part No.	Price Each 1	10	100
D-34A	50	350	1.1	25	26MB05A-ND	8.35	6.18	5.01
	100	350	1.1	25	26MB10A-ND	8.87	6.57	5.33
	200	350	1.1	25	26MB20A-ND	8.87	6.57	5.33
	600	350	1.1	25	26MB60A-ND	9.21	6.82	5.53
	200	420	1.2	35	36MB20A-ND	8.39	6.21	5.04
	400	420	1.2	35	36MB40A-ND	8.48	6.28	5.09
	600	420	1.2	35	36MB60A-ND	8.64	6.40	5.19
	800	420	1.2	35	36MB80A-ND	8.70	6.44	5.23
	1000	420	1.2	35	36MB100A-ND	9.65	7.14	5.79
	1200	420	1.2	35	36MB120A-ND	9.76	7.23	5.86
	1600	420	1.2	35	36MB160A-ND	15.01	11.68	9.68
GBPC-A	200	350	1.1	25	GBPC2502A-ND	4.49	3.00	2.40
	200	350	1.1	35	GBPC3502A-ND	4.92	3.28	2.63
	400	350	1.1	25	GBPC2504A-ND	3.74	3.00	2.25
	600	350	1.1	25	GBPC2506A-ND	4.55	3.04	2.43
GBPC-A	800	350	1.1	25	GBPC2508A-ND	3.85	3.08	2.31
	400	420	1.1	35	GBPC3504A-ND	4.69	3.13	2.50
	600	420	1.1	35	GBPC3506A-ND	4.85	3.24	2.59
	800	420	1.1	35	GBPC3508A-ND	4.10	3.28	2.46
	1000	420	1.1	35	GBPC3510A-ND	5.51	3.68	2.94
	1200	420	1.1	35	GBPC3512A-ND	5.15	3.44	2.75
D-63	600	360	1.26	25	26MT60-ND	17.05	13.27	10.99
	1000	360	1.26	25	26MT100-ND	21.29	17.03	12.78
	1600	360	1.26	25	26MT160-ND	20.71	16.58	14.50
	100	475	1.26	35	36MT10-ND	15.78	12.28	10.18
	400	300	1.19	35	36MT40-ND	16.09	12.52	10.37
	600	475	1.19	35	36MT60-ND	18.15	14.52	10.89
	800	475	1.19	35	36MT80-ND	16.58	12.90	10.69
	1200	475	1.19	35	36MT120-ND	21.95	17.56	13.17
	1600	420	1	35	36MT160-ND	21.54	17.24	15.09

HexFred Diodes

HEXFRED technology sets a new standard for high performance ultrafast diodes. This performance advantage can be utilized by the designer resulting in higher efficiency circuits and lower overall system cost. HEXFREDS will: • Allow IGBTS and MOSFETS to run cooler by 10°C, 20°C • Improve overall system efficiency by 1%, 2% • Reduce noise and the need for snubber circuitry • Allow for higher frequency operation • Allow many marginal circuits to work more reliably

Fig. 1

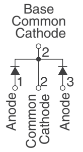

Fig. 2

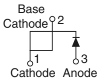

Fig. 3

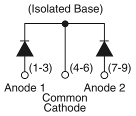

Fig. 4

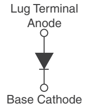

Fig. 5

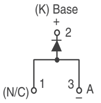

Fig. 6

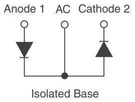

TO-220AB

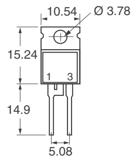

TO-220AC

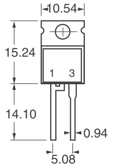

TO-262

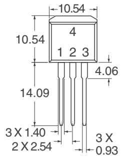

D-PAK

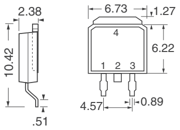

TO-247AC

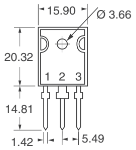

TO-247AC/MOD

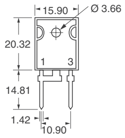

D-60

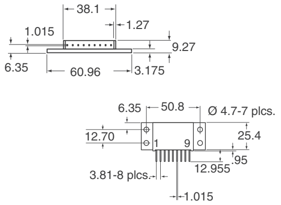

D-61-8

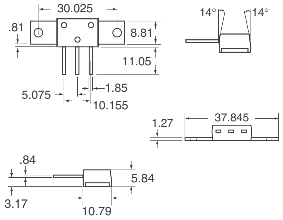

D61-8SM

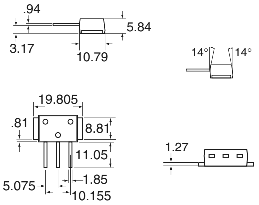

HALF-PAK

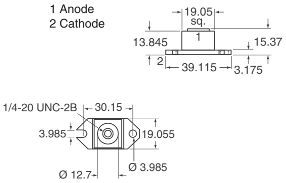

D2PAK

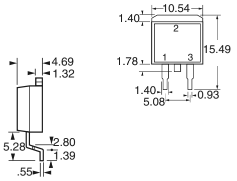

TO-244AB (ISO)

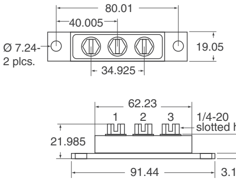

TO-244AB

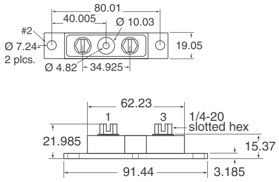

TO-249AA

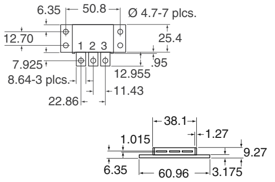

Fig.	Package	VR	VF	IF(AV) (A)	IRRM (A)	Digi-Key Part No.	Price Each		
							1	10	100
1	TO-220AB	600	1.7	16	5	HFA16TA60CPBF-ND◆	3.65	2.43	1.95
1		600	1.7	30	6	HFA30TA60CPBF-ND◆	7.16	4.77	3.82
1		600	1.8	8	5.2	HFA08TA60CPBF-ND◆	2.75	1.78	1.38
2	TO-220AC	600	1.5	4	2.9	HFA04TB60PBF-ND◆	1.03	.65	.48
2		600	1.7	8	5	HFA08TB60PBF-ND◆	2.77	1.78	1.39
2		600	1.7	15	6	HFA15TB60PBF-ND◆	3.49	2.33	1.87
2		600	1.7	25	10	HFA25TB60PBF-ND◆	5.40	3.60	2.88
2		1200	2.4	6	4.4	HFA06TB120PBF-ND◆	1.93	1.21	.90
2		1200	2.4	8	4.5	HFA08TB120PBF-ND◆	5.85	3.90	3.12
2		1200	2.3	16	5.8	HFA16TB120PBF-ND◆	7.14	5.29	4.29
1	TO-247AC	600	1.7	30	6	HFA30PA60CPBF-ND◆	6.65	4.93	4.00
1		600	1.7	16	5	HFA16PA60C-ND	7.13	4.75	3.80
1		600	1.7	16	5	HFA16PA60CPBF-ND◆	3.68	2.46	1.97
1		600	1.3	50	4.5	HFA50PA60CPBF-ND◆	8.72	6.46	5.24
1		1200	2.4	6	4.4	HFA12PA120CPBF-ND◆	7.42	4.95	3.96
2		1200	3.3	8	4.5	HFA16PA120C-ND	11.36	8.84	7.32
2		1200	3.3	8	4.5	HFA16PA120CPBF-ND◆	6.99	5.18	4.20
1		1200	2.3	16	5.8	HFA32PA120CPBF-ND◆	15.59	12.13	10.05
2	TO-247AC/ MOD	1200	2.4	30	8.1	HFA30PB120PBF-ND◆	14.36	11.17	9.26
2		1200	3	8	4.5	HFA08PB120PBF-ND◆	5.78	3.86	3.09
2		600	1.7	15	6	HFA15PB60PBF-ND◆	3.55	2.37	1.90
2		600	1.7	25	10	HFA25PB60PBF-ND◆	4.03	2.69	2.16
2		1200	3	16	5.8	HFA16PB120PBF-ND ◆	7.84	5.80	4.71
2		600	1.7	8	5	HFA08PB60PBF-ND◆	3.26	2.18	1.74
2		1200	3	6	4.4	HFA06PB120PBF-ND◆	4.95	3.30	2.64
3	D-60	600	1.1	60	6	HFA60MB60C-ND◆	72.50	58.00	43.50
1	D-61-8	600	1.2	70	6	HFA70NC60C-ND	26.50	21.20	15.90

Fig.	Package	VR	VF	IF(AV) (A)	IRRM (A)	Digi-Key Part No.	Price Each		
							1	10	100
1	D61-8SM	600	1.2	70	6	HFA70NC60CSM-ND	23.85	19.08	14.31
1		400	1	80	6	HFA80NC40CSM-ND	26.58	21.26	15.95
4	HALF-PAK	600	1.3	140	9.3	HFA140NH60-ND◆	48.60	38.88	29.16
4		600	1.2	70	8.5	HFA70NH60-ND◆	33.75	27.00	20.25
5	D2PAK	600	1.8	4	5.2	HFA04TB60S-ND	3.74	2.50	2.00
5		1200	3	8	4.5	HFA08TB120S-ND	7.34	5.43	4.41
1		600	1.7	8	5	HFA16TA60CS-ND	6.90	5.11	4.14
5		600	1.7	15	6	HFA15TB60S-ND	6.06	4.04	3.24
5		600	1.3	25	10	HFA25TB60S-ND	6.96	5.15	4.18
5		600	1.4	8	5	HFA08TB60STRL-ND	1584.00/800		
6	TO-244AB (ISO)	600	1.2	140	8	HFA140MD60D-ND◆	105.10	84.08	63.06
1		600	1.5	180	17	HFA180MD60D-ND◆	122.00	97.60	75.64
1		600	1.5	180	17	HFA180MD60C-ND◆	120.43	96.34	74.67
6		400	0.9	200	8.1	HFA200MD40D-ND◆	124.10	99.28	74.46
1	TO-244AB	400	1	160	9.3	HFA160NJ40C-ND◆	70.00	56.00	42.00
1		600	1.2	210	10	HFA210NJ60C-ND◆	91.33	73.06	54.80
1		400	1	240	7.5	HFA240NJ40C-ND◆	63.97	51.87	46.69
1		600	1.3	280	93	HFA280NJ60C-ND◆	104.48	83.58	62.69
6	TO-244AB	600	1.2	140	8.5	HFA140NJ60D-ND	59.85	47.88	35.91
6		400	1	160	9.3	HFA160NJ40D-ND	63.63	50.91	38.18
6		600	1.2	210	10	HFA210NJ60D-ND	83.59	66.87	50.16
6		400	1	240	7.5	HFA240NJ40D-ND◆	86.43	69.14	51.86
6		600	1.3	280	93	HFA280NJ60D-ND	95.42	76.34	57.26
1	TO-249AA	600	1.1	60	6	HFA60MC60C-ND◆	42.86	34.29	25.72
1	TO-262	600	1.7	15	6	HFA15TB60-1-ND	2.76	1.78	1.39

◆ RoHS Compliant

Input Rectifier Diodes

Dimensions in mm

DO-4

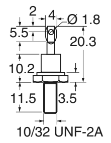

Cathode to Stud

DO-5

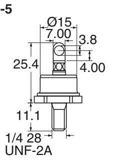

Cathode to Stud

41HF (R)

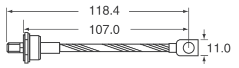

71HF (R)

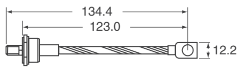

DO-8

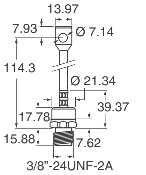

DPak

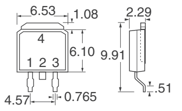

PowIRtab

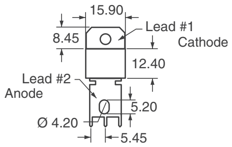

TO-220AC

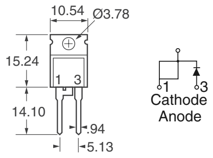

SMD-220

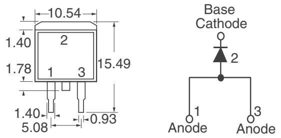

TO-220AC FULLPAK

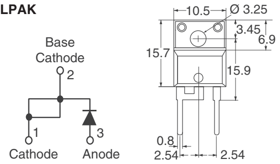

Package	I_F (A)	V_{RRM} (V)	V_F (V)	I_{FSM}(A) @ tp=10ms Sine	T_J Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
Standard Recovery Diodes (Discrete Circuit)									
DO-4	6	1200	1.1	159	-65 ~ 175	6FR120-ND◊◆	7.17	4.78	3.83
	12	50	1.35	230	-65 ~ 200	1N1199A-ND◆	4.71	3.14	2.52
	12	100	1.26	265	-65 ~ 175	12F10-ND◆	3.58	2.86	2.15
	12	100	1.26	265	-65 ~ 175	12FR10-ND◊◆	4.71	3.15	2.52
	12	100	1.35	230	-65 ~ 200	1N1200A-ND◆	4.74	3.16	2.53
	12	100	1.35	230	-65 ~ 200	1N1200RA-ND◊◆	3.57	2.38	1.91
	12	150	1.35	230	-65 ~ 200	1N1201A-ND◆	3.60	2.40	1.92
	12	200	1.26	265	-65 ~ 175	12F20-ND◆	3.99	2.67	2.13
	12	200	1.26	265	-65 ~ 175	12FR20-ND◊◆	3.99	2.67	2.13
	12	300	1.35	230	-65 ~ 200	1N1203RA-ND◊◆	4.29	2.86	2.29
	12	400	1.26	265	-65 ~ 175	12F40-ND◆	4.29	3.44	2.58
	12	400	1.26	265	-65 ~ 175	12FR40-ND◊◆	5.66	3.78	3.02
	12	400	1.35	230	-65 ~ 200	1N1204A-ND◆	5.93	3.96	3.17
	12	600	1.35	230	-65 ~ 200	1N1206A-ND◆	5.34	4.28	2.85
	12	600	1.26	265	-65 ~ 175	12F60-ND◆	5.03	4.03	3.02
	12	600	1.35	230	-65 ~ 200	1N1206RA-ND◊◆	5.04	3.36	2.69
	12	800	1.26	265	-65 ~ 175	12FR80-ND◊◆	5.46	3.64	2.92
	12	1000	1.26	265	-65 ~ 175	12F100-ND◆	7.59	6.08	4.56
	12	1000	1.35	230	-65 ~ 200	1N3673A-ND◆	6.67	4.94	4.00
	12	1200	1.26	265	-65 ~ 175	12F120-ND◆	6.73	4.99	4.04
	16	100	1.23	350	-65 ~ 175	16FR10-ND◆	3.57	2.38	1.91
	16	200	1.23	350	-65 ~ 175	16F20-ND◆	4.39	2.93	2.34
	16	400	0.9	350	-65 ~ 175	16F40-ND◆	4.79	3.83	2.55
	16	600	1.23	350	-65 ~ 175	16F60-ND◆	5.56	4.45	3.34
	16	600	1.23	350	-65 ~ 175	16FR60-ND◆	5.56	4.45	3.34
	16	800	1.23	350	-65 ~ 175	16FR80-ND◆	5.94	3.96	3.17
	16	1000	1.23	350	-40 ~ 150	16FR100-ND◆	8.14	6.52	4.89
	16	1200	1.23	370	-65 ~ 175	16F120-ND◆	7.30	4.87	3.90
	25	100	1.3	356	-65 ~ 175	25F10-ND◆	5.02	3.35	2.68
	25	200	1.3	356	-65 ~ 175	25F20-ND◆	5.20	4.16	3.12
	25	400	1.3	356	-65 ~ 175	25F40-ND◆	5.38	3.59	2.87
	25	600	1.3	356	-65 ~ 175	25FR60-ND◊◆	5.67	4.54	3.40
	25	1200	1.3	356	-65 ~ 175	25F120-ND◆	7.20	5.33	4.32
	25	1200	1.3	356	-65 ~ 175	25FR120-ND◊◆	9.79	7.25	5.88
DO-5	15	50	1.5	239	-65 ~ 190	1N3208-ND◆	5.30	4.25	3.19
	15	100	1.5	239	-65 ~ 190	1N3209-ND◆	5.18	3.46	2.77
	35	100	1.7	480	-65 ~ 190	1N1184-ND◆	5.97	4.78	3.59
	35	400	1.7	480	-65 ~ 190	1N1188R-ND◊◆	6.75	4.50	3.60
	40	50	1.3	765	-65 ~ 200	1N1183A-ND◆	6.56	5.25	3.94
	40	100	1.3	765	-65 ~ 190	1N1184RA-ND◊◆	7.17	4.78	3.83
	40	200	1.3	765	-65 ~ 190	1N1186RA-ND◊◆	6.56	4.86	3.94
	40	200	1.3	570	-65 ~ 190	40HF20-ND◆	5.34	3.56	2.85
	40	400	1.3	570	-65 ~ 190	40HFR40-ND◊◆	7.07	5.66	4.25
	40	600	1.3	765	-65 ~ 190	1N1190RA-ND◊◆	8.38	6.20	5.03
	40	800	1.3	570	-65 ~ 190	40HF80-ND◆	9.08	6.72	5.45
	40	800	1.3	570	-65 ~ 190	40HFR80-ND◊◆	9.08	7.26	5.45
DO-5	40	1000	1.3	570	-65 ~ 160	40HFR100-ND◆	10.09	8.08	5.37
	40	1400	1.3	570	-65 ~ 160	40HFR140-ND◊◆	9.00	6.66	5.40
	60	100	1.3	860	-65 ~ 190	1N2129A-ND◆	8.70	6.96	5.22
	60	200	1.3	860	-65 ~ 190	1N2131RA-ND◊◆	9.66	7.73	5.80
	60	400	1.3	860	-65 ~ 190	1N2135A-ND◆	9.70	7.18	5.82
	60	400	1.3	860	-65 ~ 190	1N2135RA-ND◊◆	9.70	7.18	5.82
	60	600	1.3	860	-65 ~ 190	1N2138A-ND◆	11.55	8.55	6.93
	60	600	1.3	860	-65 ~ 190	1N2138RA-ND◊◆	11.55	8.55	6.93
	70	100	1.00	1250	-65 ~ 150	70HF10-ND◆	7.98	6.38	4.47
	70	100	1.35	1200	-65 ~ 180	70HFR10-ND◊◆	7.98	6.38	4.79
	70	100	1.00	1200	-65 ~ 180	71HF10-ND◆	7.45	5.52	4.47
	70	200	0.79	1200	-65 ~ 150	70HF20-ND◆	8.44	6.76	5.07
	70	200	1.35	1200	-65 ~ 180	70HFR20-ND◊◆	8.44	6.76	5.07
	70	800	0.79	1200	-65 ~ 150	70HF80-ND◆	12.10	9.68	7.26
	70	800	1.35	1200	-65 ~ 180	70HFR80-ND◊◆	12.10	9.68	7.26
	70	1200	1.35	1250	-65 ~ 180	70HF120-ND§◆	16.23	12.98	8.66
	70	1200	1.35	1250	-65 ~ 180	70HFR120-ND◊§◆	7.35	5.44	4.41
	70	1400	0.79	1200	-65 ~ 150	70HF140-ND◆	11.45	8.91	7.39
	70	1400	1.35	1200	-65 ~ 150	70HFR140-ND◊◆	11.45	8.91	7.39
	70	1600	0.79	1200	-65 ~ 150	70HF160-ND◆	12.15	9.45	7.83
	70	1600	1.35	1200	-65 ~ 150	70HFR160-ND◊◆	12.76	9.93	8.23
	85	100	1.2	1700	-65 ~ 180	85HFR10-ND◊◆	11.33	9.07	6.80
	85	200	1.2	1700	-65 ~ 180	85HF20-ND◆	9.29	6.88	5.58
	85	200	1.2	1700	-65 ~ 180	85HFR20-ND◊◆	12.02	8.90	7.22
	85	400	1.2	1700	-65 ~ 180	85HFR40-ND◊◆	10.40	7.70	6.24
	85	1600	1.2	1700	-65 ~ 180	85HF160-ND◆	14.67	11.42	9.46
	85	800	1.2	1700	-65 ~ 180	85HF80-ND◆	12.48	9.24	7.49
	85	800	—	1700	-65 ~ 180	86HF80-ND◆	12.11	9.42	7.81
	85	1200	1.2	1700	-65 ~ 180	85HF120-ND◆	12.97	10.09	8.36
	85	1400	1.2	1700	-65 ~ 150	85HFR140-ND◊◆	13.16	10.24	8.49
41HF	40	200	0.70	570	-65 ~ 190	41HF20-ND◆	7.77	6.22	4.67
	40	600	0.70	570	-65 ~ 190	41HF60-ND◆	7.18	5.31	4.31
	40	800	0.70	570	-65 ~ 190	41HF80-ND◆	7.93	5.87	4.76
	40	800	0.70	570	-65 ~ 190	41HFR80-ND◊◆	7.93	5.87	4.76
	40	1000	0.70	570	-65 ~ 190	41HF100-ND◆	8.78	6.50	5.27
71HF	70	400	1.00	1200	-65 ~ 180	71HFR40-ND◊◆	13.32	10.66	8.00
	70	600	1.00	1200	-65 ~ 180	71HF60-ND◆	9.75	7.22	5.85
	70	1000	1.00	1200	-65 ~ 180	71HFR100-ND◊◆	11.40	8.87	7.35
DO-8	100	500	1.5	2200	-40 ~ 200	1N3292RB-ND◊	25.43	20.34	15.26
	100	500	1.5	1550	-40 ~ 200	1N3292R-ND◊	21.80	17.45	13.09
	150	100	1.33	3570	-40 ~ 200	150K10A-ND◆	31.49	25.20	18.90
	150	300	1.33	3570	-40 ~ 200	150KR30A-ND◊◆	34.15	27.32	20.49
	150	400	1.33	3570	-40 ~ 200	150KR40A-ND◊◆	28.14	22.51	19.70
	150	600	1.33	3570	-40 ~ 200	150K60A-ND◆	22.48	17.49	14.49

◊ Anode to stud   § tp = 8.3ms   ‡ IFSM(A) @ tp= 5μs Sine   ◆ ***RoHS Compliant***   *(Continued)*

Input Rectifier Diodes *(Cont.)*

Dimensions in mm

TO-247AC/MOD

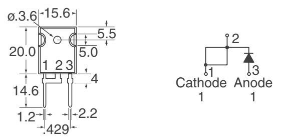

B-42

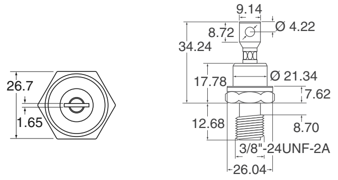

B-47

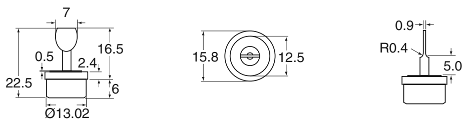

ADD-A-Pak™

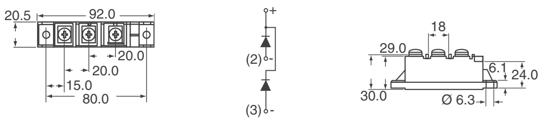

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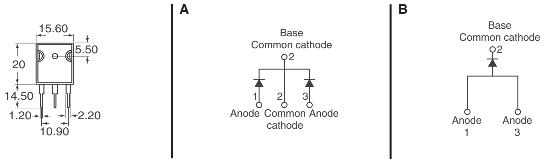

Package	I_F (A)	V_{RRM} (V)	V_F (V)	$I_{FSM(A)}$ @ tp=10ms Sine	T_J Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
PowIRtab	85	400	1.35	1250	-40 ~ 150	85EPF04-ND	10.58	8.47	6.77
	85	600	1.35	1250	-40 ~ 150	85EPF06-ND	11.53	9.23	7.38
TO-220AC	10	800	1.1	175	-40 ~ 150	10ETS08-ND	2.50	1.61	1.25
SMD-220	10	800	1.1	175	-40 ~ 150	10ETS08S-ND	3.19	2.05	1.60
	10	1200	1.1	170	-40 ~ 150	10ETS12S-ND	3.42	2.20	1.71
	20	800	1.1	260	-40 ~ 150	20ETS08S-ND	3.65	2.44	1.95
	20	1200	1.1	260	-40 ~ 150	20ETS12S-ND	4.42	2.95	2.36
TO-220AC	20	800	1.1	260	-40 ~ 150	20ETS08-ND	3.05	2.04	1.63
	20	1200	1.1	260	-40 ~ 150	20ETS12-ND	3.06	2.04	1.64
TO-220AC FULLPAK	10	1200	1.1	170	-40 ~ 150	10ETS12-ND	2.48	1.60	1.24
	20	400	1.3	250	-40 ~ 150	20ETF04FP-ND	4.30	2.87	2.30
	20	800	1.3	250	-40 ~ 150	20ETS08FP-ND	3.29	2.20	1.76
	20	1200	1.3	250	-40 ~ 150	20ETS12FP-ND	3.28	2.19	1.75
TO-247AC/MOD	40	800	1.1	380	-40 ~ 150	40EPS08-ND	4.75	3.17	2.54
	40	1200	1.1	380	-40 ~ 150	40EPS12-ND	5.13	3.43	2.74
	60	800	1.1	735	-40 ~ 150	60EPS08-ND	7.01	4.68	3.74
	60	1200	1.1	735	-40 ~ 150	60EPS12-ND	6.50	4.81	3.90
TO-247AC (B)	80	800	1.17	1450	-40 ~ 150	80EPS08-ND	8.58	6.35	5.15
	80	1200	1.17	1450	-40 ~ 150	80EPS12-ND	9.74	7.21	5.85
B-42	150	50	1.33	3000	-40 ~ 200	150KSR5-ND◊	22.28	17.82	13.37
	150	100	1.33	3000	-40 ~ 200	150KS10-ND◆	31.60	25.28	18.96
	150	600	1.33	3000	-40 ~ 200	150KSR60-ND◊◆	31.65	25.32	22.16
B-47	50	50	1.45	714	-65 ~ 195	8AF05NPP-ND◆	4.11	2.74	2.20
	50	50	1.45	714	-65 ~ 195	8AF05RPP-ND◊◆	4.11	2.74	2.20
	50	100	1.45	714	-65 ~ 195	8AF1NPP-ND◆	4.50	3.00	2.40
	50	100	1.45	714	-65 ~ 195	8AF1RPP-ND◊◆	4.50	3.00	2.40
	50	200	1.45	714	-65 ~ 195	8AF2NPP-ND◆	4.89	3.26	2.61
	50	400	1.45	714	-65 ~ 195	8AF4NPP-ND◆	6.08	4.87	3.65
ADD-A-Pak	60	400	0.92	1680	-40 ~ 150	IRKC56/04A-ND	31.88	25.51	22.32
D2Pak	10	1200	1.1	170	-40 ~ 150	10ETS12SPBF-ND◆ ***NEW!***	2.85	1.84	1.43
Fast Recovery Diodes									
DO-4	6	100	1.4	72	-65 ~ 150	1N3880-ND◆	6.18	4.12	3.30
	6	200	1.4	72	-65 ~ 150	1N3881-ND◆	6.21	4.14	3.32
	6	600	1.4	110	-65 ~ 150	6FL60S02-ND◆	6.93	5.13	4.16
	6	1000	1.4	115	-40 ~ 150	6FL100S05-ND◆	7.19	5.32	4.32
	12	100	1.4	145	-65 ~ 150	12FL10S02-ND◆	5.48	3.66	2.93
	12	100	1.4	145	-65 ~ 150	1N3890-ND◆	5.39	3.60	2.88
	12	200	1.4	145	-65 ~ 150	12FL20S02-ND◆	6.78	4.52	3.62
	12	200	1.4	145	-65 ~ 150	1N3891-ND◆	6.41	4.28	3.42
	12	600	1.4	145	-65 ~ 150	12FL60S02-ND◆	6.55	4.85	3.93
	12	1000	1.4	145	-65 ~ 150	12FLR100S05-ND◊◆	7.88	5.83	4.73
	16	200	1.4	180	-65 ~ 150	16FL20S02-ND◆	7.16	5.73	4.30
	16	200	1.4	180	-65 ~ 150	16FLR20S02-ND◊◆	5.75	3.84	3.07
	16	400	1.4	180	-65 ~ 150	16FL40S02-ND◆	7.14	4.76	3.81
	16	600	1.4	180	-65 ~ 150	16FL60S02-ND◆	6.85	5.08	4.12
	16	600	1.4	180	-65 ~ 150	16FL60S05-ND◆	6.63	4.42	3.54
	16	800	1.4	180	-65 ~ 150	16FL80S05-ND◆	7.35	4.90	3.92
	16	1000	1.4	180	-65 ~ 150	16FLR100S05-ND◊◆	11.19	8.96	6.72

Package	I_F (A)	V_{RRM} (V)	V_F (V)	$I_{FSM(A)}$ @ tp=10ms Sine	T_J Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
DO-5	20	200	1.65	240	-40 ~ 125	IRD3901-ND◆	6.11	4.07	3.26
	20	200	1.65	240	-40 ~ 125	IRD3901R-ND◊◆	6.11	4.07	3.26
	20	300	1.65	240	-40 ~ 125	IRD3902-ND◆	6.40	4.27	3.42
	20	400	1.65	240	-40 ~ 125	IRD3903-ND◆	6.63	4.42	3.54
	20	400	1.65	240	-40 ~ 125	IRD3903R-ND◊◆	6.63	4.42	3.54
	30	200	1.45	400	-40 ~ 150	30HFU-200-ND◆	11.61	9.29	6.97
	30	600	1.45	400	-40 ~ 150	30HFU-600-ND◆	13.21	10.28	8.52
	30	200	1.45	400	-40 ~ 150	30HFUR-200-ND◊◆	8.55	6.33	5.13
	30	200	1.8	285	-40 ~ 125	IRD3911-ND◆	6.24	4.16	3.33
	30	300	1.8	285	-40 ~ 125	IRD3912-ND◆	7.10	5.26	4.26
	30	400	1.8	285	-40 ~ 125	IRD3913-ND◆	7.02	4.68	3.75
	40	400	1.95	400	-40 ~ 125	40HFL40S05-ND◆	9.30	6.89	5.58
	40	600	1.95	400	-40 ~ 125	40HFL60S05-ND◆	10.40	7.70	6.24
	40	800	1.95	400	-40 ~ 125	40HFL80S05-ND◆	15.65	12.52	9.39
	40	100	1.95	400	-40 ~ 125	40HFLR10S05-ND◊◆	7.35	5.44	4.41
	40	400	1.95	400	-40 ~ 125	40HFLR40S02-ND◊◆	10.23	7.57	6.14
	40	600	1.95	400	-40 ~ 125	40HFLR60S05-ND◊◆	10.40	7.70	6.24
	40	800	1.95	400	-40 ~ 125	40HFLR80S05-ND◊◆	15.65	12.52	9.39
	60	100	1.5	700	-40 ~ 125	60HFU-100-ND◆	12.68	10.15	7.61
	60	200	1.5	700	-40 ~ 125	60HFU-200-ND◆	10.25	7.59	6.15
	60	400	1.5	700	-40 ~ 125	60HFU-400-ND◆	16.50	13.20	9.90
	60	600	1.5	700	-40 ~ 125	60HFU-600-ND◆	15.75	12.25	10.15
	60	300	1.5	700	-40 ~ 125	60HFUR-300-ND◊◆	11.15	8.26	6.69
	70	100	1.85	700	-40 ~ 125	70HFL10S02-ND◆	11.30	8.37	6.78
	70	400	1.85	700	-40 ~ 125	70HFL40S05-ND◆	15.29	12.24	9.18
	70	1000	1.85	700	-40 ~ 125	70HFLR100S05-ND◊◆	19.25	15.40	11.55
	70	1000	1.2	730	-40 ~ 150	70HFL100S05-ND◆	19.25	15.40	10.25
	70	200	1.85	700	-40 ~ 125	70HFLR20S02-ND◊◆	11.73	8.68	7.04
	70	400	1.85	700	-40 ~ 125	70HFLR40S05-ND◊◆	11.25	8.33	6.75
	70	600	1.85	700	-40 ~ 125	70HFLR60S02-ND◊◆	17.71	14.17	10.63
	85	100	1.76	1100	-40 ~ 125	85HFL10S02-ND◆	11.70	8.66	7.02
	85	200	1.76	1100	-40 ~ 125	85HFL20S02-ND◆	12.23	9.05	7.34
	85	600	1.76	1100	-40 ~ 125	85HFL60S02-ND◆	14.86	11.57	9.58
	85	600	1.76	1100	-40 ~ 125	85HFL60S05-ND◆	21.18	16.94	12.71
	85	100	1.76	1100	-40 ~ 125	85HFLR10S02-ND◊◆	11.70	8.66	7.02
	85	400	1.76	1100	-40 ~ 125	85HFLR40S02-ND◊◆	12.70	9.88	8.19
	85	600	1.76	1100	-40 ~ 125	85HFLR60S02-ND◊◆	14.86	11.57	9.58
	85	600	1.76	1100	-40 ~ 125	85HFLR60S05-ND◊◆	21.18	16.94	12.71
	85	800	1.76	1100	-40 ~ 125	85HFLR80S05-ND◊◆	14.54	11.31	9.37
DPak	8	200	1.2	200	-40 ~ 150	8EWF02S-ND	2.50	1.61	1.26
SMD-220	10	200	1.2	160	-40 ~ 150	10ETF02S-ND	3.33	2.22	1.78
	10	1000	1.33	160	-40 ~ 150	10ETF10S-ND	3.37	2.25	1.80
	10	1200	1.33	160	-40 ~ 150	10ETF12S-ND	3.53	2.35	1.88
	20	200	1.2	355	-40 ~ 150	20ETF02S-ND	5.23	3.49	2.79
	20	400	1.3	250	-40 ~ 150	20ETF04S-ND	5.23	3.49	2.79
	20	600	1.3	250	-40 ~ 150	20ETF06S-ND	5.54	3.70	2.96
	20	1200	1.3	250	-40 ~ 150	20ETF12S-ND	6.39	4.26	3.41

◊ Anode to stud § tp = 8.3ms ‡ IFSM(A) @ tp= 5µs Sine ◆ ***RoHS Compliant*** *(Continued)*

Dimensions in mm

Half-Pak

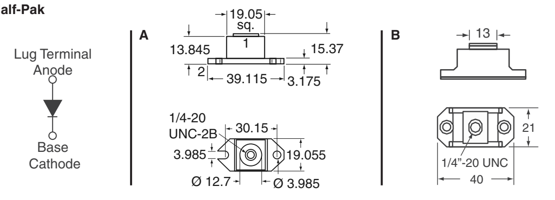

FlipKY™

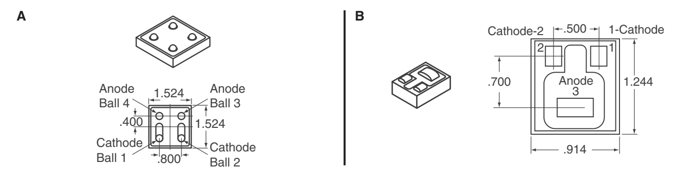

D2Pak

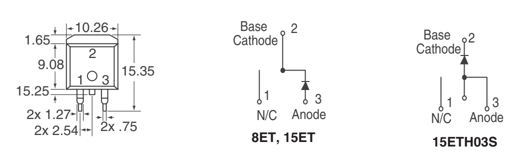

TO-262

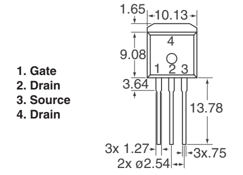

TO-220AB

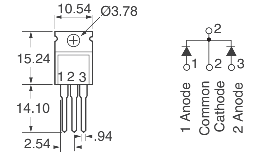

Package	I_F (A)	V_{RRM} (V)	V_F (V)	I_{FSM}(A) @ tp=10ms Sine	T_J Junction Temp (°C)	Digi-Key Part No.	Price Each		
							1	10	100
TO-220AC	10	600	1.2	160	-40 ~ 150	10ETF06-ND	3.37	2.25	1.80
	10	1000	1.2	150	-40 ~ 150	10ETF10-ND	3.13	2.09	1.67
	10	1200	1.2	150	-40 ~ 150	10ETF12-ND	3.80	2.54	2.03
	20	200	1.2	150	-40 ~ 150	20ETF02-ND	4.95	3.30	2.64
	20	600	1.2	150	-40 ~ 150	20ETF06-ND	4.97	3.32	2.65
	20	800	1.2	150	-40 ~ 150	20ETF08-ND	4.13	2.75	2.20
	20	1000	1.2	150	-40 ~ 150	20ETF10-ND	4.52	3.01	2.41
	20	1200	1.2	150	-40 ~ 150	20ETF12-ND	5.47	3.65	2.92
TO-220AC FULLPAK	20	200	1.2	300	-40 ~ 150	20ETF02FP-ND	4.30	2.87	2.30
	20	600	1.2	300	-40 ~ 150	20ETF06FP-ND	5.35	3.57	2.86
TO-247AC (B)	30	400	1.2	350	-40 ~ 150	30CPF04-ND	5.74	3.83	3.07
	30	1000	1.41	350	-40 ~ 150	30CPF10-ND	6.12	4.08	3.27
	60	200	1.3	700	-40 ~ 150	60CPF02-ND	9.74	7.21	5.85
	60	1000	1.3	700	-40 ~ 150	60CPF10-ND	7.29	4.86	3.89
	60	1200	1.3	700	-40 ~ 150	60CPF12-ND	10.64	7.88	6.39
TO-247AC/MOD	30	600	1.2	350	-40 ~ 150	30EPF06-ND	5.94	3.96	3.17
	30	1000	1.2	350	-40 ~ 150	30EPF10-ND	7.09	4.73	3.79
	40	400	1.25	400	-40 ~ 150	40EPF04-ND	6.53	4.36	3.49
	40	600	1.25	400	-40 ~ 150	40EPF06-ND	7.13	4.76	3.81
	60	200	1.3	700	-40 ~ 150	60EPF02-ND	9.74	7.21	5.85
	60	600	1.3	700	-40 ~ 150	60EPF06-ND	10.00	7.40	6.00
	60	1200	1.3	700	-40 ~ 150	60EPF12-ND	10.64	7.88	6.39
	80	200	1.2	800	-40 ~ 150	80EPF02-ND	12.77	9.94	8.24
	80	600	1.2	800	-40 ~ 150	80EPF06-ND	13.96	10.86	9.00
	80	1200	1.2	800	-40 ~ 150	80EPF12-ND	14.52	11.30	9.36
Half-Pak (A)	70	600	1.5	400	-55 ~ 150	HFA70NH60R-ND◊	26.03	20.83	15.62
	105	600	1.5	600	-55 ~ 150	HFA105NH60R-ND◊◆	38.33	30.66	23.00
	135	400	1.3	900	-55 ~ 150	HFA135NH40R-ND◊◆	39.60	31.68	23.76
	140	600	1.6	800	-55 ~ 150	HFA140NH60R-ND◊◆	48.60	38.88	29.16
FlipKY (A)	1	40	0.38	250	-55 ~ 150	IR140CSPCT-ND‡	1.05	.66	.49
	1	40	0.38	250	-55 ~ 150	IR140CSPTR-ND‡	2286.00/6,000		
FlipKY (B)	0.5	30	0.33	190	-55 ~ 150	IR0530CSPPBFCT-ND‡◆	.88	.51	.34
	0.5	30	0.33	190	-55 ~ 150	IR0530CSPPBFTR-ND‡◆	1428.00/6,000		
	0.5	40	0.42	190	-55 ~ 150	IR05H40CSPPBFCT-ND‡◆	.88	.51	.34
	0.5	40	0.42	190	-55 ~ 150	IR05H40CSPPBFTR-ND‡◆	1428.00/6,000		
Ultrafast Diodes									
PowIRtab	150	200	1.13	1600	-55 ~ 175	150EBU02-ND	6.42	4.75	3.85
	150	400	1.3	1500	-55 ~ 175	150EBU04-ND	6.82	5.05	4.10
D2Pak	8	600	2.3	110	-65 ~ 175	8ETX06STRLTR-ND	793.60/800		
	8	600	2.3	110	-65 ~ 175	8ETX06STRRTR-ND	793.60/800		
	15	300	1.25	140	-65 ~ 175	15ETH03S-ND	2.56	1.65	1.29
	15	600	2.2	120	-65 ~ 175	15ETH06S-ND	2.85	1.84	1.43
	15	600	0.99	250	-65 ~ 175	15ETL06S-ND	2.65	1.71	1.33
	20	300	1.05	120	-65 ~ 175	20CTH03S-ND	3.22	2.15	1.72
	30	200	0.92	200	-65 ~ 175	30CTH02S-ND	3.68	2.52	1.90
TO-220AC	15	200	1.05	200	-65 ~ 175	MUR1520PBF-ND◆	1.82	1.17	.91
	8	200	0.975	100	-65 ~ 175	MUR820PBF-ND◆	1.33	.84	.62
	8	300	1.25	100	-65 ~ 175	8ETH03PBF-ND◆	1.31	.82	.61
	8	600	0.96	175	-65 ~ 175	8ETL06PBF-ND◆	1.66	1.04	.77
	8	400	1.3	100	-65 ~ 175	8ETU04-ND	2.23	1.21	1.08

Package	I_F (A)	V_{RRM} (V)	V_F (V)	I_{FSM}(A) @ tp=10ms Sine	T_J Junction Temp (°C)	Digi-Key Part No.	Price Each		
							1	10	100
TO-220AC	8	600	2.4	90	-65 ~ 175	8ETH06PBF-ND◆	1.57	.98	.73
	8	600	2.3	110	-65 ~ 175	8ETX06PBF-ND◆	1.80	1.13	.84
	15	300	1.25	140	-65 ~ 175	15ETH03PBF-ND◆	1.68	1.05	.78
	15	600	2.2	120	-65 ~ 175	15ETH06PBF-ND◆	1.75	1.10	.82
	15	600	0.99	250	-65 ~ 175	15ETL06PBF-ND◆	1.93	1.21	.90
	15	600	2.3	170	-65 ~ 175	15ETX06PBF-ND◆	2.24	1.44	1.12
	30	600	2.6	200	-65 ~ 175	30ETH06PBF-ND◆	3.71	2.39	1.86
TO-220AB	10	200	1.25	50	-65 ~ 175	MUR1020CTPBF-ND◆	1.87	1.17	.87
	16	200	0.975	100	-65 ~ 175	MUR1620CTPBF-ND◆	1.84	1.15	.85
	20	200	0.85	100	-65 ~ 175	MUR2020CTPBF-ND◆	1.87	1.17	.87
	16	400	1.3	100	-65 ~ 175	16CTU04PBF-ND◆	1.79	1.15	.90
	20	300	1.05	120	-65 ~ 175	20CTH03PBF-ND◆	1.83	1.15	.85
	30	200	0.92	200	-65 ~ 175	30CTH02PBF-ND◆	1.92	1.21	.89
	30	300	1.0	150	-65 ~ 175	30CTH03PBF-ND◆	1.92	1.20	.89
TO-262	8	300	1.25	100	-65 ~ 175	8ETH03-1-ND	2.31	1.49	1.16
	8	600	0.96	175	-65 ~ 175	8ETL06-1-ND	2.31	1.49	1.16
	8	600	0.96	175	-65 ~ 175	8ETL06-1PBF-ND◆	1.52	.98	.76
	8	400	1.3	100	-65 ~ 175	8ETU04-1-ND	1.74	1.09	.81
	8	600	2.4	90	-65 ~ 175	8ETH06-1-ND	2.31	1.49	1.16
	8	600	2.3	110	-65 ~ 175	8ETX06-1PBF-ND◆	1.96	1.26	.98
	10	200	1.25	50	-65 ~ 175	MURB1020CT-1PBF-ND◆	1.75	1.13	.88
	15	200	1.05	200	-65 ~ 175	MURB1520-1-ND	3.38	2.25	1.80
	16	200	0.975	100	-65 ~ 175	MURB1620CT-1PBF-ND◆	1.91	1.20	.89
	20	200	0.85	100	-65 ~ 175	MURB2020CT-1PBF-ND◆	1.98	1.24	.92
	15	300	1.25	140	-65 ~ 175	15ETH03-1-ND	2.18	1.40	1.09
	15	600	2.2	120	-65 ~ 175	15ETH06-1-ND	2.62	1.69	1.31
	15	600	0.99	250	-65 ~ 175	15ETL06-1-ND	2.71	1.75	1.36
	15	600	0.99	250	-65 ~ 175	15ETL06-1PBF-ND◆	1.95	1.26	.98
	15	600	2.3	170	-65 ~ 175	15ETX06-1-ND	2.94	1.89	1.47
	20	300	1.05	120	-65 ~ 175	20CTH03-1-ND	3.06	2.05	1.64
	30	600	2.6	200	-65 ~ 175	30ETH06-1PBF-ND◆	3.39	2.18	1.70
TO-247AC/MOD	30	300	1.25	300	-65 ~ 175	30EPH03PBF-ND◆	2.40	1.55	1.21
TO-247AC (A)	30	300	1.25	300	-65 ~ 175	30CPH03PBF-ND◆	2.73	1.76	1.37
	30	400	1.25	400	-65 ~ 175	30CPU04PBF-ND◆	2.77	1.78	1.39
	30	200	1.05	200	-65 ~ 175	MUR3020WTPBF-ND◆	3.21	2.15	1.72
	60	600	1.35	600	-55 ~ 175	60APU06-ND	11.61	8.15	6.52
TO-247AC (B)	60	200	1.08	800	-55 ~ 175	60APU02PBF-ND◆	4.47	2.99	2.39
	60	400	1.25	400	-55 ~ 175	60APU04-ND	6.25	4.63	3.76
	60	600	1.35	600	-55 ~ 175	60EPU06-ND	11.61	8.15	6.52
Half-Pak (B)	275	400	1.65	900	-55 ~ 150	HFA135NH40PBF-ND◆	26.94	21.55	18.86
TO-247AC/MOD	60	200	1.08	800	-55 ~ 175	60EPU02PBF-ND◆	4.47	2.99	2.39
	60	400	1.25	400	-55 ~ 175	60EPU04PBF-ND◆	4.61	3.08	2.47
	30	600	2.6	600	-65 ~ 175	30EPH06PBF-ND◆	2.62	1.69	1.32
TO-220AC FULLPAK	8	600	2.4	100	-65 ~ 175	8ETH06FPPBF-ND◆	1.92	1.20	.89
	8	600	0.96	175	-65 ~ 175	8ETL06FPPBF-ND◆	1.88	1.18	.87
	8	600	2.3	110	-65 ~ 175	8ETX06FPPBF-ND◆	2.00	1.29	1.01
	15	600	2.2	180	-65 ~ 175	15ETH06FPPBF-ND◆	1.93	1.24	.97
	15	600	0.99	250	-65 ~ 175	15ETL06FPPBF-ND◆	2.31	1.49	1.16
	15	600	2.3	170	-65 ~ 175	15ETX06FPPBF-ND◆	2.44	1.58	1.23
	20	300	1.05	120	-65 ~ 175	20CTH03FP-ND	2.40	1.55	1.20
	30	200	0.92	200	-65 ~ 175	30CTH02FP-ND	6.84	4.56	3.65

◊ Anode to stud § tp = 8.3ms ‡ IFSM(A) @ tp= 5μs Sine ◆ ***RoHS Compliant***

SCRs

ADD-A-pak™

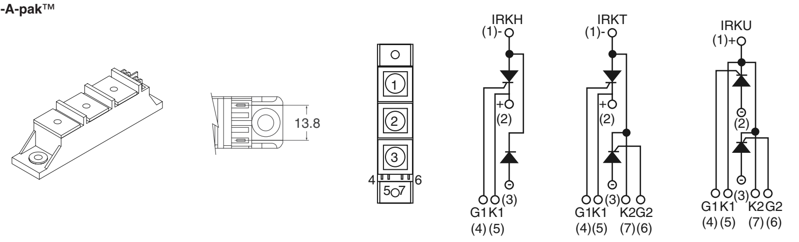

TO-208AA (TO-48)

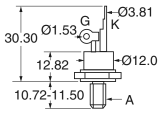

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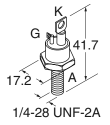

D²Pak (SMD-220)

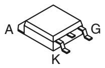

TO-247AC

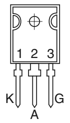

TO-220 FULLPAK

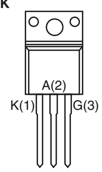

TO-220AC

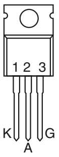

TO-200AB (A-PUK)

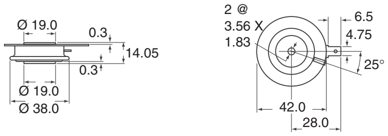

SUPER-247

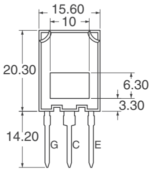

TO-209AE (TO-118)

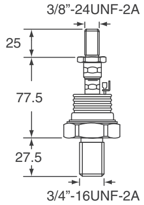

V_{DRM} (V) Maximum	$I_{T(AV)}$ (A) Maximum	Package	V_{GT} (V) Maximum	I_{GT} (mA) Maximum	V_{TM} (V) Maximum	DV/DT (V/µs) Maximum	Digi-Key Part No.	Price Each 1	10	100
1200	95 @ 85°C	ADD-A-pak™	2.5	150	1.58	500	IRKU91/12A-ND	52.17	41.74	37.57
25	16 @ 65°C	TO-208AA (TO-48)	2.0	40	2.0	100†	2N681-ND◆	10.75	7.96	6.45
100	16 @ 65°C		2.0	40	2.0	100†	2N683-ND◆	11.84	8.76	7.11
1000	16 @ 85°C		2.0	60	1.75	300	16RIA100-ND◆	19.73	15.35	12.72
600	50 @ 94°C	TO-208AC (TO-65)	2.5	100	1.6	500	50RIA60-ND◆	15.54	12.09	10.02
1200	50 @ 94°C		2.5	100	1.6	500	50RIA120-ND◆	22.90	18.32	16.03
800	6.5 @ 112°C	D²Pak (SMD-220)	1.0	15	1.15	150	10TTS08S-ND	2.21	1.42	1.11
800	10 @ 98°C		2.0	60	1.4	500	16TTS08S-ND	3.19	2.05	1.60
1200	10 @ 98°C		2.0	60	1.4	500	16TTS12S-ND	4.48	2.99	2.39
800	16 @ 93°C		2.0	45	1.25	500	25TTS08S-ND	4.40	2.93	2.35
800	20 @ 95°C	TO-247AC	2.0	45	1.3	500	30TPS08-ND	3.43	2.21	1.72
1200	20 @ 95°C		2.0	45	1.3	500	30TPS12-ND	3.63	2.42	1.94
800	35 @ 79°C		2.5	150	1.85	500	40TPS08-ND	5.28	3.52	2.82
800	35 @ 79°C		2.5	150	1.85	500	40TPS08A-ND	4.80	3.20	2.56
1200	35 @ 79°C		2.5	150	1.85	1000	40TPS12-ND	5.84	3.90	3.12
1200	35 @ 79°C		2.5	150	1.85	1000	40TPS12A-ND	6.05	4.18	3.52
800	10 @ 95°C	TO-220 FULLPAK	2.0	60	1.4	500	16TTS08FP-ND	3.43	2.29	1.84
800	16 @ 85°C		2.0	45	1.25	500	25TTS08FP-ND	3.94	2.72	2.17
800	10 @ 98°C	TO-220AC	2.0	60	1.4	500	16TTS08-ND	2.20	1.42	1.11
1200	10 @ 98°C		2.0	60	1.4	500	16TTS12-ND	2.68	1.73	1.35
800	16 @ 93°C		2.0	45	1.25	500	25TTS08-ND	3.03	2.42	2.19
1200	16 @ 93°C		2.0	45	1.25	500	25TTS12-ND	4.26	2.84	2.28
800	350 @ 55°C	TO-200AB (A-PUK)	3.0	150	1.96	500	ST180C08C0-ND◆	90.87	72.70	45.45
1200	70 @ 82°C	SUPER-247	1.5	100	1.4	500	70TPS12PBF-ND◆ ***NEW!***	8.25	6.11	4.95
1600	70 @ 82°C		1.5	100	1.4	500	70TPS16-ND	8.05	6.13	5.08
2000	300 @ 75°C	TO-209AE (TO-118)	3.0	200	1.66	500	ST300S20P0PBF-ND◆	176.32	—	—

◆ *RoHS Compliant* † Typical

MOSFETs

Fig. 1 — TO-220

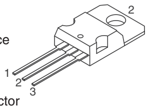

A.
1. Gate
2. Drain
3. Source

B.
1. Gate
2. Collector
3. Emitter

Fig. 2 — TO-247

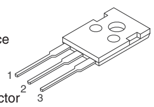

A.
1. Gate
2. Drain
3. Source

B.
1. Gate
2. Collector
3. Emitter

Fig. 3 — D^2PAK

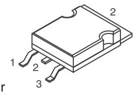

A.
1. Gate
2. Drain
3. Source

B.
1. Gate
2. Collector
3. Emitter

Fig. 4 — DPAK

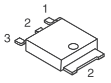

A.
1. Gate
2. Drain
3. Source

B.
1. Gate
2. Collector
3. Emitter

Fig. 5 — ISOTOP

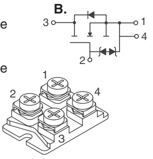

A.
1. Source
2. Gate
3. Drain
4. Source

Fig. 6 — TO-220FP

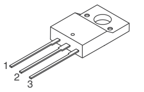

A.
1. Gate
2. Drain
3. Source

B.
1. Gate
2. Collector
3. Emitter

Fig. 7 — 8-SOIC

A.	B.	C.	D.
1. Source	1. Source	1. Anode	1. Gate
2. Gate	2. Source	2. Anode	2. N/C
3. Source	3. Source	3. Source	3. N/C
4. Gate	4. Gate	4. Gate	4. Source
5. Drain	5. Drain	5. Drain	5. Drain
6. Drain	6. Drain	6. Drain	6. Drain
7. Drain	7. Drain	7. Cathode	7. Drain
8. Drain	8. Drain	8. Cathode	8. Drain

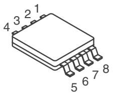

Fig. 8 — Max247™

1. Gate
2. Drain
3. Source

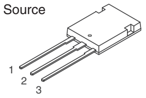

Fig. 9 — SOT23-3L

1. Gate
2. Drain
3. Source

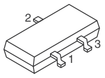

Fig. 10 — TO-92

A.
1. Source
2. Gate
3. Drain

B.
1. Gate
2. Drain
3. Source

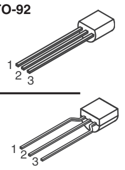

Fig. 11 — IPAK TO-251

1. Gate
2. Drain
3. Source

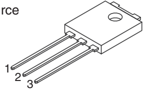

Fig. 12 — PowerSO-10

1. Ksource
2. Ksource
3. Gate
4. Ksource
5. Ksource
6. Source
7. Source
8. Source
9. Source
10. Source

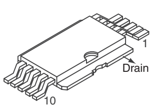

Fig. 13 — SOT-223

1. Gate
2. Drain
3. Source

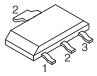

Fig. 14 — TSSOP-8

1. Drain	5. Gate
2. Source	6. Source
3. Source	7. Source
4. Gate	8. Drain

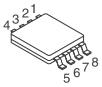

Fig. 15 — I^2PAK

A.
1. Gate
2. Drain
3. Source

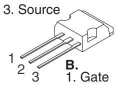

B.
1. Gate
2. Collector
3. Emitter

Fig. 16 — PowerFLAT™ (6 x 5)

1. Source	5. Drain
2. Source	6. Drain
3. Source	7. Drain
4. Gate	8. Drain

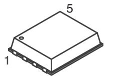

Fig. 17 — PowerFLAT™ (3.3 x 3.3)

1. Source	5. Drain
2. Source	6. Drain
3. Source	7. Drain
4. Gate	8. Drain

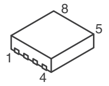

Fig. 18 — ClipPak™

1. Gate
2. Drain
3. Source

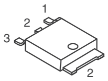

Fig. 19 — TO-220FH

1. Gate
2. Drain
3. Source

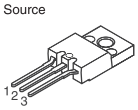

Fig. 20 — PolarPAK®

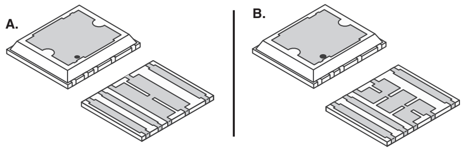

Fig. 21 — SOT23-6L

1. Drain
2. Drain
3. Gate
4. Source
5. Drain
6. Drain

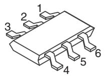

Fig. 22 — SEMITOP®2

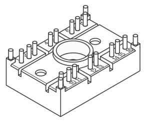

Fig. 23 — SEMITOP®3

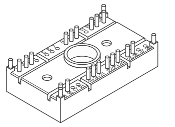

Fig.	V_{DSS} (V)	I_D (A)	$R_{DS}(on)$ (Ω)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape and Reel† Pricing	STMicro. Part No.
				N-Channel					
				TO-220					
1A	30	40	0.022	497-3187-5-ND	1.65	13.75	115.50	—	STP40NF03L
	40	80	0.0065	497-5132-5-ND◆	1.89	15.75	132.30	—	STP95N04
	40	120	0.0037	497-3524-5-ND◆	3.24	28.20	210.00	—	STP200NF04
	40	120	0.0029	497-5270-5-ND◆	3.73	32.43	241.50	—	STP270N04
	55	80	0.005	497-5898-5-ND◆	2.85	23.75	199.50	—	STP80NF55L-06
	55	80	0.0065	497-2774-5-ND◆	2.31	19.25	161.70	—	STP80NF55-06
	55	80	0.008	497-3202-5-ND	2.25	18.75	157.50	—	STP80NF55-08
	55	80	0.008	497-4370-5-ND◆	2.35	19.55	164.22	—	STP140NF55
	55	120	0.005	497-6117-5-ND◆	3.51	30.55	227.50	—	STP150NF55
	60	16	0.1	497-2766-5-ND◆	.90	7.20	50.00	—	STP16NF06
	60	16	0.09	497-2765-5-ND◆	.94	8.13	62.50	—	STP16NF06L
	60	20	0.07	497-4374-5-ND◆	1.12	9.72	74.75	—	STP20NF06
	60	20	0.07	497-4375-5-ND◆	1.12	9.72	74.75	—	STP20NF06L
	60	30	0.040	497-3186-5-ND◆	1.50	13.00	100.00	—	STP36NF06
	60	38	0.028	497-3189-5-ND◆	1.61	13.98	107.50	—	STP45NF06
	60	50	0.018	497-2777-5-ND◆	1.28	11.05	85.00	—	STP55NF06
	60	60	0.016	497-2779-5-ND◆	1.86	16.09	123.75	—	STP60NF06
	60	60	0.014	497-5895-5-ND◆	1.84	15.93	122.50	—	STP60NF06L
	60	80	0.010	497-3201-5-ND	2.94	24.50	205.80	—	STP80NF06
	75	80	0.011	497-2788-5-ND◆	2.10	17.50	147.00	—	STP75NF75
	75	120	0.0065	497-5894-5-ND◆	2.52	21.00	176.40	—	sTP140NF75
	100	26	0.060	497-3185-5-ND◆	1.65	14.30	110.00	—	STP24NF10
	100	40	0.035	497-2645-5-ND◆	1.54	13.33	102.50	—	STP35NF10
	100	50	0.028	497-3188-5-ND◆	2.10	17.50	147.00	—	STP40NF10
	100	80	0.023	497-4384-5-ND◆	2.55	21.25	178.50	—	STP60NF10
	100	80	0.015	497-2642-5-ND◆	2.67	22.25	186.90	—	STP80NF10
	100	120	0.0105	497-4118-5-ND◆	2.88	24.00	201.60	—	STP120NF10
	120	40	0.032	497-4381-5-ND◆	1.73	14.38	120.75	—	STP40NF12
	200	9	0.40	497-2757-5-ND◆	1.13	9.75	75.00	—	IRF630
	200	18	0.125	497-4373-5-ND◆	1.56	13.00	109.20	—	STP20N20
	200	18	0.125	497-5811-5-ND◆	1.59	13.25	111.30	—	STF20NF20
	200	30	0.075	497-5825-5-ND◆	2.43	20.25	170.10	—	STP30NF20
	200	40	0.045	497-4380-5-ND◆	2.93	24.45	205.38	—	STP40N20
	200	40	0.045	497-5806-5-ND◆	2.94	24.50	205.80	—	STP40NF20
	200	75	0.034	497-5271-5-ND◆	3.40	29.61	220.50	—	STP75N20
	200	75	0.034	497-5958-5-ND◆	3.42	29.73	221.38	—	STP75NF20
	250	16	0.28	497-3183-5-ND◆	1.95	16.25	136.50	—	STP16NS25
	400	4.7	1.8	497-2675-5-ND	2.79	23.25	195.30	—	STP5NB40
	400	5.4	1	497-3200-5-ND	1.43	12.35	95.00	—	STP7NK40Z
	500	3	2.7	497-3190-5-ND◆	1.05	9.10	70.00	—	STP4NK50Z
	520	4.4	1.22	497-5953-5-ND◆	1.39	12.03	92.50	—	STP5NK52ZD
	500	3	2.7	497-5131-5-ND◆	1.01	8.78	67.50	—	STP4NK50ZD
	500	4.4	1.5	497-3195-5-ND	1.09	9.43	72.50	—	STP5NK50Z
	500	5.6	1.2	497-4385-5-ND◆	1.20	10.40	80.00	—	STP6NK50Z
	500	7.2	0.85	497-3203-5-ND◆	1.69	14.63	112.50	—	STP9NK50Z
	500	9	0.7	497-4671-5-ND◆	1.80	15.00	126.00	—	STP10NK50Z
	500	11	0.38	497-4818-5-ND◆	3.65	31.73	236.25	—	STP12NM50N
1A	500	12	0.35	497-2666-5-ND◆	4.73	41.13	306.25	—	STP12NM50
	500	14	0.38	497-4526-5-ND◆	2.70	23.50	175.00	—	STP14NK50Z
	500	20	0.25	497-2663-5-ND	5.40	47.00	350.00	—	STP20NM50
	500	22	0.14	497-4672-5-ND◆	6.08	52.88	393.75	—	STP25NM50N
	600	1.4	8	497-4377-5-ND◆	.90	7.20	54.00	—	STP2NK60Z
	600	4	2	497-3191-5-ND◆	1.24	10.73	82.50	—	STP4NK60Z
	600	5	1.6	497-3196-5-ND	1.43	12.35	95.00	—	STP5NK60Z
	600	6	1.2	497-3198-5-ND◆	1.65	14.30	110.00	—	STP6NK60Z
	600	7	0.95	497-4387-5-ND◆	1.95	16.25	136.50	—	STP9NK60ZD
	600	8	0.9	497-6194-5-ND◆	2.81	24.44	182.00	—	STP8NM60D
	600	10	0.64	497-4817-5-ND◆	1.75	14.58	122.43	—	STP12NK60Z
	600	10	0.75	497-4117-5-ND◆	2.64	22.00	184.80	—	STP10NK60Z
	600	10	0.37	497-5887-5-ND◆	3.51	30.55	227.50	—	STP11NM60N
	600	11	0.45	497-2773-5-ND	3.24	28.20	210.00	—	STP11NM60
	600	11	0.45	497-4368-5-ND◆	3.51	30.55	227.50	—	STP11NM60A
	600	11	0.45	497-3180-5-ND◆	4.05	35.25	262.50	—	STP11NM60FD
	600	13	0.55	497-3182-5-ND◆	2.70	22.50	189.00	—	STP13NK60Z
	600	14	0.42	497-4372-5-ND◆	2.25	18.75	157.50	—	STP16NK60Z
	600	17	0.24	497-5019-5-ND◆	4.86	42.30	315.00	—	STP21NM60N
	600	20	0.29	497-5395-5-ND◆	5.54	48.18	358.75	—	STP20NM60FD
	600	20	0.17	497-5020-5-ND◆	5.27	45.83	341.25	—	STP25NM60N
	650	8	1	497-5397-5-ND◆	2.25	18.75	157.50	—	STP8NM60
	650	13	0.5	497-4119-5-ND◆	2.64	22.00	184.80	—	STP16NK65Z
	650	20	0.29	497-3184-5-ND◆	5.40	47.00	350.00	—	STP20NM60
	650	20	0.29	497-4376-5-ND◆	5.94	51.70	385.00	—	STP20NM60A
	700	8.6	0.75	497-5893-5-ND◆	2.01	16.75	140.70	—	STP10NK7OZ
	800	2.5	4.5	497-4379-5-ND◆	1.17	10.11	77.75	—	STP3NK80Z
	800	3	3.5	497-3192-5-ND◆	1.43	12.35	95.00	—	STP4NK80Z
	800	7.5	1.2	497-5133-5-ND◆	2.70	22.50	189.00	—	STP9NK80Z
	800	11	0.4	497-4369-5-ND◆	5.40	47.00	350.00	—	STP11NM80
	850	6.7	1.4	497-5205-5-ND◆	2.40	20.00	168.00	—	STP8NK85Z
	900	2.1	6.5	497-4378-5-ND◆	1.16	10.08	77.50	—	STP2NK90Z
	900	4.5	2.5	497-4383-5-ND◆	1.65	13.75	115.50	—	STP5NK90Z
	900	5.8	2	497-3199-5-ND◆	2.16	18.00	151.20	—	STP6NK90Z
	900	8	1.3	497-2785-5-ND◆	2.58	21.50	180.60	—	STP9NK90Z
	1000	3.5	3.7	497-4382-5-ND◆	2.69	22.43	188.37	—	STP5NK100Z
	1000	6.5	1.85	497-5021-5-ND◆	3.65	31.73	236.25	—	STP8NK100Z
	1500	2.5	6	497-6327-5-ND◆	5.40	47.00	350.00	—	STP3N150
	1500	4	7	497-5091-5-ND◆	6.45	56.17	418.25	—	STP4N150
	—	62	0.125	497-5896-5-ND◆	1.46	12.68	97.50	—	STP62NS04Z
	—	80	0.007	497-5981-5-ND◆	1.84	15.93	122.50	—	STP75NS04Z
				TO-247					
2A	100	120	0.0105	497-5166-5-ND◆	3.56	31.02	231.00	—	STW120NF10
	200	30	0.075	497-5168-5-ND◆	1.92	16.00	134.40	—	STW30N20
	200	30	0.065	497-5989-5-ND◆	2.97	24.75	207.90	—	STW30NF20
	200	34	0.075	497-2659-5-ND	3.78	32.90	245.00	—	STW34NB20
	200	40	0.045	497-4427-5-ND◆	3.11	27.03	201.25	—	STW40N20
	200	40	0.045	497-5807-5-ND◆	3.21	27.97	208.25	—	STW40NF20

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape
◊ For Tape and Box part number, change 1-ND to 3-ND.

(Continued)

MOSFETs *(Cont.)*

Fig.	V_{DSS} (V)	I_D (A)	R_{DS}(on) (Ω)	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel† Pricing	STMicro. Part No.
2A	200	75	0.034	497-5320-5-ND◆	3.75	32.67	243.25	—	STW75N20
	200	75	0.034	497-5959-5-ND◆	3.70	32.17	239.58	—	STW75NF20
	250	52	0.045	497-4428-5-ND◆	4.66	40.54	301.88	—	STW52NK25Z
	500	14	0.34	497-3260-5-ND◆	2.76	23.00	193.20	—	STW15NK50Z
	500	14	0.38	497-3258-5-ND◆	3.24	28.20	210.00	—	STW14NK50Z
	500	17	0.27	497-3261-5-ND	3.11	27.03	201.25	—	STW20NK50Z
	500	18	0.19	497-4806-5-ND◆	3.78	32.90	245.00	—	STW21NM50N
	500	20	0.25	497-2717-5-ND◆	5.75	52.50	415.00	—	STW20NM50FD
	500	22	0.14	497-4675-5-ND◆	6.35	55.23	411.25	—	STW25NM50N
	500	29	0.13	497-5768-ND◆	7.82	71.40	564.40	—	STW29NK50ZD
	500	30	0.120	497-3264-5-ND◆	9.20	84.00	664.00	—	STW26NM50
	500	31	0.13	497-4425-5-ND◆	6.90	63.00	498.00	—	STW29NK50Z
	500	45	0.1	497-2760-5-ND◆	11.39	103.95	821.70	—	STW45NM50
	500	45	0.1	497-2718-5-ND◆	11.00	101.75	770.00	—	STW45NM50FD
	550	14	0.35	497-3259-5-ND	5.27	45.83	341.25	—	STW14NM50
	550	20	0.25	497-3262-5-ND◆	5.40	47.00	350.00	—	STW20NM50
	600	10	0.75	497-3253-5-ND	2.92	25.38	189.00	—	STW10NK60Z
	600	13	0.55	497-3257-5-ND◆	3.51	30.55	227.50	—	STW13NK60Z
	600	14	0.42	497-3558-5-ND◆	3.00	26.09	194.25	—	STW16NK60Z
	600	16	0.36	497-4422-5-ND◆	4.59	39.95	297.50	—	STW18NK60Z
	600	17	0.24	497-5024-5-ND◆	4.19	36.43	271.25	—	STW21NM60N
	600	20	0.29	497-5415-5-ND◆	5.67	49.35	367.50	—	STW20NM60FD
	600	20	0.17	497-5025-5-ND◆	5.94	51.70	385.00	—	STW25NM60N
	600	27	0.185	497-4424-5-ND◆	6.90	63.00	498.00	—	STW28NK60Z
	600	30	0.135	497-3265-5-ND◆	9.20	84.00	664.00	—	STW26NM60
	600	30	0.145	497-4426-5-ND◆	10.00	92.50	700.00	—	STW30NM60D
	600	45	0.11	497-2768-5-ND◆	10.00	92.50	700.00	—	STW45NM60
	650	20	0.29	497-3263-5-ND◆	4.59	39.95	297.50	—	STW20NM60
	700	7.5	1	497-5899-5-ND◆	1.92	16.00	134.40	—	STW9NK70Z
	700	20	0.285	497-3559-5-ND◆	5.27	45.83	341.25	—	STW20NK70Z
	800	9	0.90	497-3254-5-ND◆	2.92	25.38	189.00	—	STW10NK80Z
	800	10.5	0.75	497-3256-5-ND◆	4.32	37.60	280.00	—	STW12NK80Z
	800	11	0.4	497-4420-5-ND◆	6.48	56.40	420.00	—	STW11NM80
	800	19	0.38	497-4423-5-ND◆	5.59	48.65	362.25	—	STW18NK80Z
	900	8	1.3	497-2784-5-ND◆	2.94	24.50	205.80	—	STW9NK90Z
	900	9.2	0.82	497-6198-5-ND◆	4.46	38.78	288.75	—	STW11NK90Z
	900	11	0.88	497-4421-5-ND◆	4.21	36.66	273.00	—	STW12NK90Z
	900	15	0.55	497-3557-5-ND◆	6.67	60.90	481.40	—	STW15NK90Z
	950	10	0.9	497-5167-5-ND◆	3.92	34.08	253.75	—	STW12NK95Z
	1000	8.3	1.38	497-3255-5-ND◆	5.18	45.12	336.00	—	STW11NK100Z
	1000	13	0.70	497-3556-5-ND◆	5.75	52.50	415.00	—	STW13NK100Z
	1500	2.5	6	497-6332-5-ND◆	5.94	51.70	385.00	—	STW3N150
	1500	4	7	497-5092-5-ND◆	6.10	55.65	439.90	—	STW4N150
				D^2PAK					
3A	24	75	0.008	497-3515-1-ND‡	1.95	16.25	136.50	878.00/1,000	STB75NH02LT4
	40	120	0.0037	497-3513-1-ND◆‡	3.38	29.38	218.75	1663.00/1,000	STB200NF04T4
	40	120	0.0043	497-5951-1-ND◆‡	2.67	22.25	186.90	1202.00/1,000	STB100NF04T4
	55	80	0.0065	497-5954-1-ND◆‡	2.07	17.25	144.90	932.00/1,000	STB60N55F3
	55	80	0.008	497-3737-1-ND◆‡	2.37	19.75	165.90	1067.00/1,000	STB80NF55-08T4
	55	80	0.008	497-4321-1-ND‡	2.93	24.45	205.38	1320.00/1,000	STB140NF55T4
	55	80	0.008	497-5732-1-ND◆‡	2.94	24.50	205.80	1323.00/1,000	STB85NF55LT4
	60	16	0.09	497-4322-1-ND◆‡	1.04	8.97	69.00	400.00/1,000	STB16NF06LT4
	60	38	0.028	497-5731-1-ND◆‡	1.58	13.65	105.00	609.00/1,000	STB45NF06
	75	75	0.011	497-3514-1-ND◆‡	2.55	21.25	178.50	1148.00/1,000	STB75NF75LT4
	100	40	0.033	497-3736-1-ND◆‡	2.07	17.25	144.90	932.00/1,000	STB40NF10LT4
	100	80	0.015	497-2489-1-ND◆‡	2.97	24.75	207.90	1337.00/1,000	STB80NF10T4
	100	120	0.0105	497-2452-1-ND◆‡	2.81	24.44	182.00	1383.00/1,000	STB120NF10T4
	200	18	0.125	497-5810-1-ND◆‡	1.59	13.25	111.30	1722.50/2,500	STD20NF20
	200	40	0.045	497-5804-1-ND◆‡	2.85	23.75	199.50	1283.00/1,000	STB40NF20
	200	75	0.034	497-5957-1-ND◆‡	3.92	34.08	253.75	1929.00/1,000	STB75NF20
	500	4.4	1.5	497-4324-1-ND‡	1.25	10.86	83.50	484.00/1,000	STB5NK50ZT4
	500	10	0.52	497-2451-1-ND◆‡	1.89	15.75	132.30	850.50/1,000	STB11NK50ZT4
	500	11	0.038	497-5781-1-ND◆‡	3.38	29.38	218.75	1663.00/1,000	STB12NM50N
	500	12	0.4	497-5380-1-ND◆‡	4.86	42.30	315.00	2394.00/1,000	STB12NM50FDT4
	500	17	0.27	497-4323-1-ND◆‡	2.84	24.68	183.75	1397.00/1,000	STB20NK50ZT4
	500	18	0.19	497-5783-1-ND◆‡	3.78	32.90	245.00	1862.00/1,000	STB21NM50N
	550	12	0.35	497-5381-1-ND◆‡	3.51	30.55	227.50	1729.00/1,000	STB12NM50T4
	550	20	0.25	497-5312-1-ND◆‡	4.32	37.60	280.00	2128.00/1,000	STB20NM50T4
	550	22	0.14	497-5385-1-ND◆‡	5.67	49.35	367.50	2793.00/1,000	STB25NM50N
	600	4	2	497-2486-1-ND‡	1.39	12.03	92.50	537.00/1,000	STB4NK60ZT4
	600	7	0.95	497-4325-1-ND‡	2.07	17.25	144.90	931.50/1,000	STB9NK60ZDT4
	600	8	1	497-5244-1-ND◆‡	2.40	20.00	168.00	1080.00/1,000	STB8NM60D
	600	11	0.45	497-3511-1-ND‡	3.78	32.90	245.00	1862.00/1,000	STB11NM60FDT4
	600	17	0.24	497-5002-1-ND◆‡	4.32	37.60	280.00	2128.00/1,000	STB21NM60N
	600	20	0.29	497-5384-1-ND◆‡	5.40	47.00	350.00	—	STB20NM60T4
	600	20	0.17	497-5003-1-ND◆‡	5.94	51.70	385.00	2926.00/1,000	STB25NM60N
	650	5	1	497-5386-1-ND◆‡	2.85	23.75	199.50	1282.50/1,000	STB8NM60T4
	800	10.5	0.75	497-4320-1-ND‡	3.19	27.73	206.50	1569.00/1,000	STB12NK80ZT4
	800	11	0.4	497-4319-1-ND◆‡	5.75	52.50	415.00	3188.00/1,000	STB11NM80T4
				DPAK					
4A	24	38	0.0135	497-3160-1-ND‡	1.80	15.00	126.00	1950.00/2,500	STD38NH02LT4
	24	40	0.011	497-4104-1-ND‡	1.43	12.35	95.00	1262.50/2,500	STD55NH2LLT4
	24	60	0.008	497-3165-1-ND‡	1.50	13.00	100.00	1330.00/2,500	STD70NH02LT4
	24	60	0.0048	497-4100-1-ND‡	2.16	18.00	151.20	2340.00/2,500	STD100NH02LT4
	24	60	0.0068	497-5891-1-ND◆‡	1.24	10.73	82.50	1097.50/2,500	STD70N02L
	24	80	0.005	497-4105-1-ND‡	2.34	19.50	163.80	2535.00/2,500	STD95NH02LT4
	30	17	0.05	497-3155-1-ND‡	1.08	8.64	64.80	855.00/2,500	STD17NF03LT4
	30	30	0.025	497-3157-1-ND‡	1.65	13.75	115.50	1787.50/2,500	STD30NF03LT4
	30	35	0.0195	497-2475-1-ND‡	1.50	13.00	100.00	1330.00/2,500	STD35NF3LLT4
	30	60	0.0095	497-2476-1-ND‡	1.84	15.93	122.50	1630.00/2,500	STD60NF3LLT4
	30	70	0.0059	497-6188-1-ND◆‡	1.31	11.38	87.50	1165.00/2,500	STD70N03L
	30	80	0.0055	497-4749-1-ND◆‡	1.65	13.75	115.50	1787.50/2,500	STD100N03LT4
	40	80	0.0054	497-6024-1-ND◆‡	2.01	16.75	140.70	2177.50/2,500	STD95N4F3
	40	80	0.0065	497-5106-1-ND◆‡	2.01	16.75	140.70	2177.50/2,500	STD95N04
	60	12	0.1	497-2487-1-ND◆‡	.81	6.48	45.00	642.50/2,500	STD12NF06LT4
	60	12	0.1	497-3154-1-ND◆‡	.94	8.13	62.50	832.50/2,500	STD12NF06T4
	60	24	0.07	497-4329-1-ND◆‡	1.04	8.97	69.00	917.50/2,500	STD16NF06LT4
	60	24	0.032	497-5888-1-ND◆‡	.94	8.13	62.50	832.50/2,500	STD20NF06LT4
	60	28	0.028	497-5734-1-ND◆‡	1.20	10.40	80.00	1065.00/2,500	STD30NF06
	60	35	0.028	497-4101-1-ND◆‡	1.31	11.38	87.50	1165.00/2,500	STD30NF06LT4
	60	35	0.024	497-3159-1-ND‡	1.58	13.65	105.00	1396.50/2,500	STD35NF06T4
	60	60	0.014	497-6195-1-ND◆‡	1.69	14.63	112.50	1497.50/2,500	STD60NF06T4
	75	40	0.024	497-4334-1-ND◆‡	1.58	13.65	105.00	1397.50/2,500	STD45NF75T4
	100	13	0.13	497-3153-1-ND◆‡	1.20	10.40	80.00	1065.00/2,500	STD10NF10T4
	100	25	0.035	497-3156-1-ND◆‡	1.50	13.00	100.00	1330.00/2,500	STD25NF10LT4
	200	5	0.7	497-4335-1-ND◆‡	1.05	9.10	70.00	930.00/2,500	STD5N20LT4
	200	18	0.125	497-4330-1-ND‡	1.81	15.70	120.75	—	STD20N20T4
	200	22	0.105	497-4653-1-ND◆‡	2.25	18.75	157.50	2437.50/2,500	STD22NM20NT4
	400	3	1.8	497-2477-1-ND◆‡	1.05	9.10	70.00	930.00/2,500	STD5NK40ZT4
	500	2.3	3.3	497-4333-1-ND‡	1.64	14.20	109.25	1453.03/2,500	STD3NK50ZT4
	500	3	2.7	497-4103-1-ND◆‡	.98	8.45	65.00	865.00/2,500	STD4NK50ZT4
	500	3	2.7	497-5105-1-ND◆‡	1.01	8.78	67.50	897.50/2,500	STD4NK50ZD
	500	4.4	1.5	497-3520-1-ND◆‡	1.09	9.43	72.50	1052.50/2,500	STD5NK50ZT4
	500	7.5	0.8	497-3162-1-ND‡	2.85	23.75	199.50	3087.50/2,500	STD5NM50T4
	500	11	0.38	497-5784-1-ND◆‡	3.51	30.55	227.50	4160.00/2,500	STD12NM50N
	520	4.4	1.5	497-5735-1-ND◆‡	1.09	9.43	72.50	965.00/2,500	STD5NK52ZD
	600	1	8.5	497-2483-1-ND◆‡	.94	8.13	62.50	832.50/2,500	STD1NK60T4
	600	2	4.4	497-6192-1-ND◆‡	1.04	8.28	62.10	819.38/2,500	STD2HNK60Z
	600	2.4	3.6	497-4102-1-ND‡	.98	8.45	65.00	865.00/2,500	STD3NK60ZT4
	600	3	1.5	497-3161-1-ND‡	1.69	14.63	112.50	1497.50/2,500	STD3NM60T4
	600	4	1.76	497-5889-1-ND◆‡	1.16	10.08	77.50	1030.00/2,500	STD4NK60ZT4
	600	5	1	497-3163-1-ND◆‡	1.95	16.25	136.50	2112.50/2,500	STD5NM60T4
	600	10	0.45	497-5733-1-ND◆‡	2.67	22.25	186.90	2892.50/2,500	STD11NM60N
	650	5	1.2	497-5890-1-ND◆‡	1.39	12.03	92.50	1230.00/2,500	STD5NK60ZT4
	700	1.6	7	497-4331-1-ND‡	1.51	13.10	100.75	1339.98/2,500	STD2NK70ZT4
	800	1.0	16	497-4751-1-ND◆‡	.99	7.92	59.40	783.75/2,500	STD1NK80ZT4
	900	2.1	6.5	497-4332-1-ND‡	1.51	13.10	100.75	1340.00/2,500	STD2NK90ZT4
				ISOTOP					
5A	100	180	.006	497-3166-5-ND◆	47.25	405.00	3591.00	—	STE180NE10
	100	220	.0055	497-3167-5-ND◆	35.00	300.00	2660.00	—	STE250NS10
	200	110	0.024	497-2657-5-ND◆	35.00	300.00	2660.00	—	STE110NS20FD
	500	53	0.08	497-2776-5-ND◆	30.63	262.50	2327.50	—	STE53NC50
	500	70	0.05	497-3172-5-ND◆	42.00	360.00	3192.00	—	STE70NM50
	550	48	0.1	497-3170-5-ND◆	26.25	225.00	1995.00	—	STE48NM50
	600	40	0.13	497-3169-5-ND◆	30.63	262.50	2327.50	—	STE40NC60
	600	70	0.055	497-3173-5-ND◆	42.00	360.00	3192.00	—	STE70NM60
5B	800	45	0.13	497-5387-5-ND◆	52.50	450.00	3990.00	—	STE45NK80ZD
	900	28	0.26	497-4336-5-ND	28.00	240.00	2128.00	—	STE30NK90Z
	900	40	0.18	497-4337-5-ND◆	52.50	450.00	3990.00	—	STE40NK90ZD
				TO-220FP					
6A	60	20	0.07	497-4340-5-ND◆	1.01	8.10	60.75	—	STF20NF06
	60	23	0.028	497-4343-5-ND◆	1.58	13.65	105.00	—	STF40NF06
	60	37	0.016	497-3197-5-ND◆	2.40	20.00	168.00	—	STP60NF06FP
	60	50	0.018	497-3193-5-ND	1.83	15.25	128.10	—	STP55NF06FP
	100	80	0.012	497-5897-5-ND◆	2.79	23.25	195.30	—	STP80NF10FP
	200	18	0.125	497-4339-5-ND◆	1.56	13.00	109.20	—	STF20N20
	200	18	0.125	497-5812-5-ND◆	1.83	15.25	128.10	—	STP20NF20
	200	40	0.045	497-5006-5-ND◆	2.70	22.50	189.00	—	STF40N20
	200	40	0.045	497-5805-5-ND◆	2.85	23.75	199.50	—	STF40NF20
	500	9	0.7	497-4654-5-ND◆	1.65	13.75	115.50	—	STF10NK50Z
	500	10	0.48	497-5973-5-ND◆	1.84	15.93	122.50	—	STP11NK50ZFP
	500	11	0.38	497-4804-5-ND◆	2.97	25.85	192.50	—	STF12NM50N
	500	12	0.35	497-2665-5-ND◆	3.51	30.55	227.50	—	STP12NM50FP
	500	18	0.19	497-4803-5-ND◆	3.78	32.90	245.00	—	STF21NM50N
	500	22	0.14	497-4655-5-ND◆	6.21	54.05	402.50	—	STF25NM50N
	550	8	0.8	497-5396-5-ND◆	2.10	17.50	147.00	—	STP8NM50FP
	550	20	0.25	497-5394-5-ND◆	5.67	49.35	367.50	—	STP20NM50FP
	600	2.4	3.3	497-5978-5-ND◆	.94	8.13	62.50	—	STP3NK60ZFP
	600	4	1.76	497-5980-5-ND◆	1.24	10.73	82.50	—	STP4NK60ZFP
	600	6	1	497-5956-5-ND◆	1.50	13.00	100.00	—	STP6NK60ZFP
	600	7	0.95	497-4346-5-ND◆	2.14	17.83	149.73	—	STF9NK60ZD
	600	7	0.85	497-5983-5-ND◆	1.69	14.63	112.50	—	STP9NK60ZFP
	600	10	0.64	497-4808-5-ND◆	1.78	14.85	124.74	—	STF12NK60Z
	600	10	0.37	497-5886-5-ND◆	3.51	30.55	227.50	—	STF11NM60N
	600	10	0.65	497-5892-5-ND◆	2.52	21.00	176.40	—	STP10NK60ZFP
	600	11	0.45	497-5392-5-ND◆	5.67	49.35	367.50	—	STP11NM60FDFP
	600	17	0.24	497-5004-5-ND◆	5.64	49.12	365.75	—	STF21NM60N
	600	20	0.17	497-5005-5-ND◆	5.67	49.35	367.50	—	STF25NM60N
	650	11	0.45	497-3181-5-ND◆	4.19	36.43	271.25	—	STP11NM60FP
	650	20	0.29	497-2771-5-ND	5.67	49.35	367.50	—	STP20NM60FP
	800	2.5	4.5	497-4342-5-ND◆	1.29	11.21	86.25	—	STF3NK80Z
	800	6.2	1.3	497-5982-5-ND◆	1.92	16.00	134.40	—	STP8NK80ZFP
	800	7.5	1.2	497-5108-5-ND◆	2.64	22.00	184.80	—	STF9NK80Z
	800	9	0.78	497-5972-5-ND◆	2.91	24.25	203.70	—	STP10NK80ZFP
	800	11	0.40	497-4338-5-ND◆	5.40	47.00	350.00	—	STF11NM80
	900	3	4.1	497-5979-5-ND◆	1.39	12.03	92.50	—	STP3NK90ZFP
	900	3	4.2	497-4341-5-ND◆	1.38	11.96	92.00	—	STF3HNK90Z
	1000	3.5	3.7	497-4344-5-ND◆	2.49	20.75	174.30	—	STF5NK100Z
	1000	6.5	1.85	497-5007-5-ND◆	2.84	24.68	183.75	—	STF8NK100Z
				8-SOIC					
7B	30	9	0.018	497-6189-1-ND◆‡	1.24	10.73	82.50	1097.50/2,500	STS9NH3LL
	30	9	0.020	497-3234-1-ND‡	1.65	14.30	110.00	1463.00/2,500	STS9NF30L
	30	11	0.0105	497-4121-1-ND◆‡	1.08	8.64	64.80	855.00/2,500	STS11NF30L
	30	12	0.0105	497-4122-1-ND◆‡	1.50	13.00	100.00	1330.00/2,500	STS12NH3LL
	30	12	0.009	497-3223-1-ND◆‡	1.05	9.10	70.00	930.00/2,500	STS12NF30L
	30	12	0.0105	497-4755-1-ND◆‡	1.44	12.51	96.25	1280.13/2,500	STSJ50NH3LL
	30	15	0.0075	497-5252-1-ND◆‡	2.07	17.25	144.90	2242.50/2,500	STSJ60NH3LL
	30	17	0.0057	497-5760-1-ND◆‡	1.61	13.98	107.50	1429.75/2,500	STS17NH3LL
	30	25	0.0035	497-2474-1-ND◆‡	1.65	13.75	115.50	1787.50/2,500	STS25NH3LL
	30	25	0.0035	497-5785-1-ND◆‡	2.25	18.75	157.50	2437.50/2,500	STSJ100NH3LL

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape
◊ For Tape and Box part number, change 1-ND to 3-ND.

(Continued)

MOSFETs *(Cont.)*

Fig.	V_{DSS} (V)	I_D (A)	R_{DS}(on) (Ω)	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel† Pricing	STMicro. Part No.
7B	55	24	0.035	497-3317-1-ND‡	1.89	15.73	132.09	2044.25/2,500	VNS14NV0413TR
	60	7.5	0.0195	497-4757-1-ND◆‡	1.28	11.08	85.25	1135.00/2,500	STS7NF60L
7C	30	4	0.055	497-3227-1-ND◆‡	1.50	12.50	105.00	1625.00/2,500	STS4DNFS30L
	30	4.5	0.044	497-6187-1-ND◆‡	1.50	12.50	105.00	1625.00/2,500	STS4DNFS30
7D	600	0.3	8.5	497-3530-1-ND‡	1.05	9.10	70.00	931.00/2,500	STS1HNK60
Max247 — RoHS Compliant									
8	100	140	0.011	497-3267-5-ND	13.00	120.25	910.00	—	STY140NS10
	200	100	0.024	497-5321-5-ND	13.00	120.25	910.00	—	STY100NS20FD
	500	60	0.05	497-2775-5-ND	17.00	157.25	1190.00	—	STY60NM50
	600	60	0.055	497-3268-5-ND	18.00	166.50	1260.00	—	STY60NM60
	900	28	0.26	497-4431-5-ND	13.80	127.65	966.00	—	STY30NK90Z
SOT23-3L — RoHS Compliant									
9	60	0.20	5	497-3111-1-ND‡	.43	3.13	22.00	270.00/3,000	2N7002
TO-92 — RoHS Compliant									
10A	60	0.35	5	497-3110-ND	.49	2.90	18.85	—	2N7000
10B	800	0.3	13	497-6197-1-ND‡◊	.81	6.48	48.60	—	STQ1NK80ZR-AP
IPAK TO-251 — RoHS Compliant									
11	24	50	0.0105	497-3519-5-ND	1.50	13.00	100.00	—	STD50NH02L-1
	30	60	0.009	497-3164-5-ND	1.35	11.70	90.00	—	STD60NH03L-1
	500	3	2.3	497-5964-5-ND	.94	8.13	62.50	—	STD4NK50ZD-1
	520	4.4	1.22	497-5965-5-ND	1.20	10.40	80.00	—	STD5NK52ZD-1
	600	10	0.37	497-5963-5-ND	2.46	20.50	172.20	—	STD11NM60N-1
PowerSO-10									
12	20	160	0.0025	497-3251-1-ND‡	6.48	56.40	420.00	2016.00/600	STV160NF02L
	30	160	0.0028	497-3252-1-ND‡	5.75	52.50	415.00	1950.00/600	STV160NF03L
SOT-223 — RoHS Compliant									
13	30	6.5	0.05	497-4525-1-ND‡	1.50	13.00	100.00	2128.00/4,000	STN4NF03L
	60	4	0.1	497-3177-1-ND‡	1.13	9.75	75.00	1596.00/4,000	STN3NF06L
	60	4	0.1	497-4764-1-ND‡	.74	5.94	44.55	940.00/4,000	STN3NF06
	200	1	1.5	497-3176-1-ND‡	1.84	15.93	122.50	—	STN1N20
	600	0.3	15	497-3523-1-ND‡	.72	5.76	43.20	912.00/4,000	STN1NK60Z
	600	0.4	8.5	497-4668-1-ND‡	1.04	8.28	62.10	1312.00/4,000	STN1HNK60
	800	0.25	16	497-4669-1-ND‡	1.01	8.78	67.50	1436.00/4,000	STN1NK80Z
TSSOP-8									
14	30	5	0.031	497-4327-1-ND‡	.72	5.80	43.47	916.00/4,000	STC5NF30V
I^2PAK									
15A	40	120	0.0037	497-3512-5-ND	2.40	20.00	168.00	—	STB200NF04-1
	40	120	0.0038	497-6190-5-ND◆	3.38	29.38	218.75	—	STB200NF04L-1
	100	80	0.019	497-6185-5-ND◆	2.10	17.50	147.00	—	STB60NF10-1
	500	18	0.19	497-5727-ND◆	3.24	28.20	210.00	—	STB21NM50N-1
	520	4.4	1.22	497-5952-5-ND◆	1.09	9.43	72.50	—	STB5NK52ZD-1
	550	20	0.25	497-5382-5-ND◆	4.32	37.60	280.00	—	STB20NM50-1
	550	22	0.14	497-5729-ND◆	4.19	36.43	271.25	—	STB25NM50N-1
	600	6	1	497-5955-5-ND◆	1.69	14.63	112.50	—	STB6NK60Z-1
	600	11	0.45	497-5379-5-ND◆	2.84	24.68	183.75	—	STB11NM60-1
	600	20	0.29	497-5383-5-ND◆	5.40	47.00	350.00	—	STB20NM60-1
	650	17	0.24	497-5728-ND◆	3.24	28.20	210.00	—	STB21NM60N-1
	650	20	0.17	497-5730-ND◆	4.59	39.95	297.50	—	STB25NM60N-1
PowerFLAT™ (6 x 5) — RoHS Compliant									
16	30	25	0.0035	497-5813-1-ND‡	1.98	16.50	138.60	2574.00/3,000	STL100NH3LL
	30	27	0.013	497-4114-1-ND‡	1.80	15.60	120.00	1914.00/3,000	STL50NH3LL
	30	30	0.0105	497-5246-1-ND‡	1.89	15.75	132.30	2457.00/3,000	STL60NH3LL
	200	20	0.105	497-4657-1-ND‡	3.11	27.03	201.25	1530.00/1,000	STL20NM20N
PowerFLAT™ (3.3 x 3.3) — RoHS Compliant									
17	30	8	0.015	497-4115-1-ND‡	1.58	13.65	105.00	1677.00/3,000	STL8NH3LL
ClipPak™ — RoHS Compliant									
18	24	150	0.0035	497-4750-1-ND‡	1.82	15.13	127.05	1967.50/2,500	STD150NH02LT4
PowerMESH™ TO-220FH — RoHS Compliant									
19	1500	2.5	6	497-6319-5-ND	5.97	51.94	386.75	—	STFV3N150
	1500	4	7	497-5093-5-ND	6.10	55.65	439.90	—	STFV4N150
PolarPAK® — RoHS Compliant									
20A	25	21	0.005	497-6324-1-ND‡	2.70	22.50	189.00	3510.00/3,000	STK820
	30	20	0.0098	497-5123-1-ND‡	2.55	21.25	178.50	3315.00/3,000	STK800
20B	25	38	0.0015	497-6325-1-ND‡	3.38	29.38	218.75	4800.00/3,000	STK822
	30	30	0.0035	497-5124-1-ND‡	2.70	23.50	175.00	3840.00/3,000	STK850
Dual N-Channel									
TSSOP-8									
14	20	5	0.045	497-3151-1-ND‡	.72	5.76	43.20	912.00/4,000	STC5NF20V
	30	6	0.030	497-3152-1-ND‡	1.50	13.00	100.00	2128.00/4,000	STC6NF30V
8-SOIC									
7A	20	5	0.045	497-3229-1-ND‡	1.69	14.63	112.50	1496.25/2,500	STS5DNF20V
	30	4	0.06	497-5251-1-ND◆‡	.95	7.56	56.70	747.50/2,500	STS4DNF30L
	30	8	0.022	497-4399-1-ND◆‡	1.39	12.03	92.50	1230.00/2,500	STS8DNH3LL
	30	8	0.020	497-2470-1-ND◆‡	1.31	11.38	87.50	1247.50/2,500	STS8DNF3LL
	30	9	0.012	497-6030-1-ND◆‡	1.58	13.65	105.00	1397.50/2,500	STS9D8NH3LL
	60	4	0.055	497-3226-1-ND◆‡	1.80	15.60	120.00	1595.00/2,500	STS4DNF60L
P-Channel									
TO-220 — RoHS Compliant									
1A	60	12	0.20	497-2721-5-ND	.90	7.20	54.00	—	STP12PF06
	55	80	0.018	497-2729-5-ND	2.46	20.50	172.20	—	STP80PF55
D^2PAK — RoHS Compliant									
3A	60	16	0.125	497-4099-1-ND‡	1.28	11.05	85.00	493.00/1,000	STB16PF06LT4
DPAK — RoHS Compliant									
4A	30	24	0.028	497-3158-1-ND‡	1.76	15.28	117.50	1562.50/2,500	STD30PF03LT4
	60	10	0.20	497-2456-1-ND‡	.86	6.84	51.30	677.50/2,500	STD10PF06T4
8-SOIC									
7A	20	5	0.055	497-4758-1-ND◆‡	1.57	13.59	104.50	1390.00/2,500	STS5DPF20L
7B	20	5	0.10	497-3230-1-ND‡	1.08	8.64	64.80	855.00/2,500	STS5PF20L
7B	30	5	0.08	497-3231-1-ND◆‡	1.80	15.60	120.00	1595.00/2,500	STS5PF30L
	30	7	0.021	497-3233-1-ND◆‡	1.50	13.00	100.00	1330.00/2,500	STS7PF30L
7C	20	2.5	0.25	497-3225-1-ND‡	1.80	15.00	126.00	1950.00/2,500	STS2DPFS20V
SOT23-6L									
21	20	3	0.135	497-3236-1-ND‡	1.04	8.28	62.10	983.25/3,000	STT4PF20V
SOT-223									
13	20	5	0.08	497-4364-1-ND‡	1.04	8.28	62.10	1311.00/4,000	STN5PF20V
	60	2.5	0.20	497-4116-1-ND◆‡	.94	8.13	62.50	1332.00/4,000	STN3PF06
P-Channel with Schottky									
8-SOIC									
7C	30	5	0.055	497-4397-1-ND‡	1.65	14.30	110.00	1463.00/2,500	STS4DPFS30L
Dual P-Channel — RoHS Compliant									
8-SOIC									
7A	30	4	0.08	497-3228-1-ND‡	1.50	13.00	100.00	1330.00/2,500	STS4DPF30L
	60	3	0.12	497-4123-1-ND‡	1.43	12.35	95.00	1262.50/2,500	STS3DPF60L
N/P-Channel — RoHS Compliant									
8-SOIC									
7A	30	8/5	.022/.055	497-4398-1-ND‡	1.58	13.65	105.00	1396.50/2,500	STS8C5H30L
	60	4/3	.055/.12	497-4396-1-ND‡	1.50	13.00	100.00	1330.00/2,500	STS4C3F60L
PowerMESH™ IGBT									
TO-220									
1B	600	25	—	497-4112-5-ND	1.69	14.63	112.50	—	STGP7NB60KD
	600	15	—	497-5122-5-ND◆	1.53	12.75	107.10	—	STGP6NC60HD
	600	20	—	497-5008-5-ND◆	3.51	30.55	227.50	—	STGP10NB60SD
	600	20	—	497-5117-5-ND◆	1.89	15.75	132.30	—	STGP10NC60H
	600	20	—	497-5118-5-ND◆	1.89	15.75	132.30	—	STGP10NC60HD
	600	20	—	497-5119-5-ND◆	1.89	15.75	132.30	—	STGP10NC60K
	600	20	—	497-5120-5-ND◆	2.22	18.50	155.40	—	STGP10NC60KD
	600	25	—	497-5121-5-ND◆	2.40	20.00	168.00	—	STGP14NC60KD
	600	25	—	497-4113-5-ND◆	1.65	13.75	115.50	—	STGP7NC60H
	600	60	—	497-4355-5-ND◆	3.11	27.03	201.25	—	STGP20NC60V
TO-247									
2B	600	20	2.8	497-2654-5-ND	5.94	51.70	385.00	—	STGW20NB60KD
	600	60	—	497-4356-5-ND◆	4.19	36.50	271.78	—	STGW20NC60V
	600	60	—	497-4357-5-ND◆	4.35	37.84	281.75	—	STGW20NC60VD
	600	60	—	497-5009-5-ND◆	5.00	43.48	323.75	—	STGW30NC60W
	600	60	—	497-5204-5-ND◆	5.13	44.65	332.50	—	STGW30NC60WD
	600	80	—	497-4358-5-ND◆	6.88	62.79	496.34	—	STGW40NC60V
	1,200	30	—	497-5314-5-ND◆	5.40	47.00	350.00	—	STGW30NC120HD
D^2PAK									
3B	18	20	—	497-4349-1-ND‡	3.42	29.73	221.38	1682.45/1,000	STGB10NB40LZT4
	20	40	—	497-4351-1-ND‡	3.73	32.43	241.50	1835.40/1,000	STGB20NB41LZT4
	350	20	—	497-3522-5-ND	3.51	30.55	227.50	—	STGB20NB32LZ
	425	20	—	497-4106-1-ND‡	3.56	31.02	231.00	1755.60/1,000	STGB10NB37LZT4
	600	3	—	497-2449-1-ND‡	1.61	13.98	107.50	—	STGB3NB60FDT4
	600	14	—	497-4107-1-ND‡	1.80	15.00	126.00	—	STGB7NB60HDT4
	600	15	—	497-5110-1-ND◆‡	1.74	14.50	121.80	783.00/1,000	STGB6NC60HDT4
	600	15	—	497-5111-1-ND◆‡	1.74	14.50	121.80	783.00/1,000	STGB6NC60HT4
	600	20	—	497-6184-1-ND◆‡	2.04	17.00	142.80	918.00/1,000	STGB10NC60HDT4
	600	25	—	497-5109-1-ND◆‡	2.40	20.00	168.00	1080.00/1,000	STGB14NC60KDT4
	600	30	—	497-4350-1-ND‡	2.07	17.25	144.90	931.50/1,000	STGB12NB60KDT4
DPAK									
4B	600	3	—	497-2450-1-ND‡	1.39	12.03	92.50	—	STGD3NB60FT4
	600	6	—	497-4109-1-ND‡	1.35	11.70	90.00	1197.50/2,500	STGD3NB60SDT4
	600	14	—	497-4110-1-ND‡	1.73	14.95	115.00	1530.00/2,500	STGD7NB60KT4
	600	15	—	497-5112-1-ND◆‡	1.74	14.50	121.80	1885.00/2,500	STGD6NC60HDT4
	600	15	—	497-5113-1-ND◆‡	1.74	14.50	121.80	1885.00/2,500	STGD6NC60HT4
	600	20	—	497-6183-1-ND◆‡	2.10	17.50	147.00	—	STGD10NC60KDT4
	600	20	—	497-6186-1-ND◆‡	1.01	8.78	67.50	897.50/2,500	STGD10NC60HT4
	600	25	—	497-4111-1-ND‡	1.62	13.50	113.40	1755.00/2,500	STGD7NC60HT4
TO-220FP — RoHS Compliant									
6B	600	6	—	497-5116-5-ND	1.53	12.75	107.10	—	STGF6NC60HD
	600	9	—	497-5114-5-ND	1.53	12.75	107.10	—	STGF10NC60KD
	600	10	—	497-4354-5-ND	1.80	15.00	126.00	—	STGF7NC60HD
	600	11	—	497-5115-5-ND	1.89	15.75	132.30	—	STGF14NC60KD
	1200	6	—	497-4353-5-ND	2.07	17.25	144.90	—	STGF3NC120HD
I^2PAK — RoHS Compliant									
15B	600	15	—	497-6196-5-ND	2.16	18.00	151.20	—	STGB6NC60HD-1
SEMITOP®2 — RoHS Compliant									
22	600	19	—	497-5216-ND	36.75	315.00	2793.00	—	STG3P2M10N60B
SEMITOP®3 — RoHS Compliant									
23	600	50	—	497-5217-ND	56.00	480.00	4256.00	—	STG3P3M25N60

Fig.	V_{ces} (V)	V_{ce} (sat)	I_c (A)	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel† Pricing	STMicro Part No.
IGBT – RoHS Compliant									
TO-220									
1B	600	2.5V	40	497-6027-5-ND	2.84	24.68	183.75	—	STGP19NC60WD
TO-247									
2B	600	2.5V	70	497-5741-ND	5.40	47.00	350.00	—	STGW39NC60VD
			70	497-5742-ND	5.40	47.00	350.00	—	STGW40NC60WD
			80	497-5969-5-ND	3.78	32.90	245.00	—	STGW30NC60VD
D^2PAK									
3B	600	2.5V	20	497-5736-1-ND‡	2.25	18.75	157.50	1013.00/1,000	STGB10NC60KDT4
			20	497-5737-1-ND‡	2.25	18.75	157.50	1013.00/1,000	STGB10NC60KT4
			25	497-5738-1-ND‡	1.31	11.38	87.50	508.00/1,000	STGB14NC60KT4
			35	497-6026-1-ND‡	2.22	18.50	155.40	999.00/1,000	STGB19NC60HDT4
DPAK									
4B	600	2.5V	25	497-5739-1-ND‡	2.31	19.25	161.70	2502.50/2,500	STGD14NC60KT4
TO-220FP									
6B	600	2.5V	16	497-5740-ND	2.85	23.75	199.50	—	STGF19NC60HD

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape
◊ For Tape and Box part number, change 1-ND to 3-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transistors

Fig. 1 — TO-39

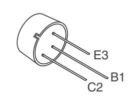

Fig. 2 — TO-18

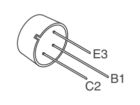

Fig. 3 — TO-3

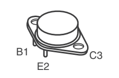

Fig. 4 — TO-92

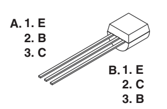

Fig. 5 — SOT-32

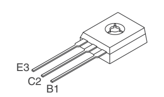

Fig. 6 — TO-220

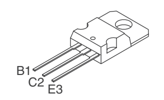

Fig. 7 — SOT-23

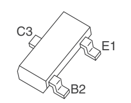

Fig. 8 — TO-218

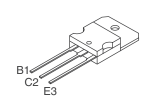

Fig. 9 — ISOWATT218

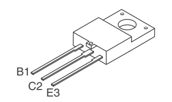

Fig. 10 — TO-247

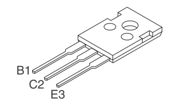

Fig. 11 — ISOTOP

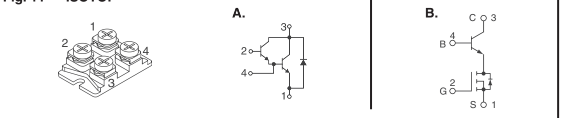

Fig. 12 — TO-247-4L

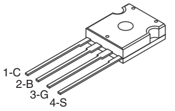

Fig. 13 — TO-247-4L HP

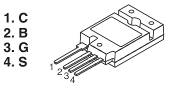

Fig. 14 — TO-247-4L HV

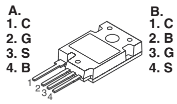

Fig. 15 — IPAK

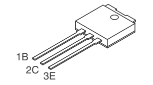

Fig. 16 — SOT-89

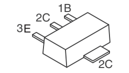

Fig. 17 — DPAK

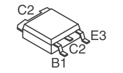

Fig. 18 — SOT-223

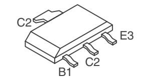

Fig. 19 — TO-220FP

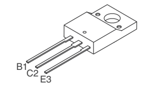

Fig. 20 — 8-SOIC

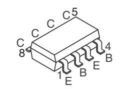

Fig. 21 — PowerSO-10RF

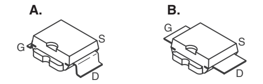

Fig. 22 — M113, M174, M177

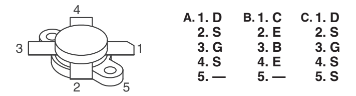

Fig. 23 — M229

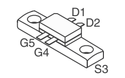

Fig. 24 — M244

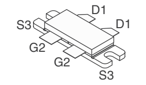

Fig. 25 — M252

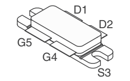

Fig. 26 — M246

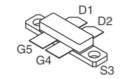

Fig. 27 — M243

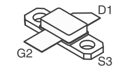

Fig. 28 — M250

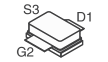

Fig. 29 — M135

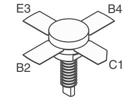

Fig. 30 — M164

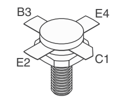

Fig. 31 — D²PAK

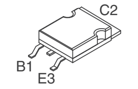

Fig.	V_{CB} (V)	I_C (A)	H_{FE} Min.	Package	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	STMicro. Part No.
					NPN				
1	75	0.5	100	TO-39	497-2594-5-ND◆	.90	7.80	60.00	2N1711
	75	0.6	100	TO-39	497-2595-5-ND◆	1.08	8.64	64.80	2N2219A
	120	0.5	40	TO-39	497-2637-5-ND◆	.90	7.80	60.00	2N1893
	120	1	40	TO-39	497-2636-5-ND◆	1.17	9.36	70.20	2N2102
	120	5	40	TO-39	497-2635-5-ND◆	2.13	17.75	149.10	BFX34
	140	1	100	TO-39	497-2634-5-ND◆	1.35	10.80	81.00	2N3019
	300	1	40	TO-39	497-2626-5-ND◆	1.13	9.75	75.00	2N3440
	450	1	40	TO-39	497-2576-5-ND◆	1.24	10.73	82.50	2N3439
2	30	0.8	150	TO-18	497-3106-5-ND◆	1.09	9.43	72.50	2N2222
	45	0.1	110	TO-18	497-3116-5-ND	1.50	13.00	100.00	BC107
	75	0.6	40	TO-18	497-2598-ND◆	1.17	9.36	70.20	2N2222A
	80	0.5	40	TO-18	497-3112-5-ND◆	1.46	12.68	97.50	2N720A
	80	1	90	TO-18	497-3108-5-ND◆	1.09	9.43	72.50	2N3700
3	40	30	15	TO-3	497-2584-5-ND◆	2.64	22.00	184.80	2N3771
	60	20	15	TO-3	497-2597-5-ND◆	3.00	25.00	210.00	2N3772
	80	10	1,000	TO-3	497-2393-ND◆	2.58	21.50	180.60	MJ3001
	100	12	750	TO-3	497-2561-5-ND◆	2.67	22.28	187.11	2N6059
	100	15	20	TO-3	497-2612-5-ND◆	1.68	14.00	117.60	2N3055
	100	20	750	TO-3	497-2563-5-ND◆	3.92	34.08	253.75	2N6284
	140	16	5	TO-3	497-6204-ND◆	2.67	23.27	173.25	2N3773
	400	15	300	TO-3	497-3129-5-ND◆	3.51	30.55	227.50	BU941
	450	30	—	TO-3	497-4086-5-ND◆	7.59	69.30	547.80	BUF420M
	700	8	—	TO-3	497-2412-ND◆	2.97	25.85	192.50	BU208A
	850	15	6	TO-3	497-2592-5-ND◆	5.00	43.48	323.75	2N6547
4A	60	5	400	TO-92	497-3531-ND◆	1.13	9.75	75.00	STSA1805
	150	5	300	TO-92	497-3235-ND◆	.99	7.92	59.40	STSA851
	300	0.5	40	TO-92	497-2407-ND	.26	1.80	12.48	STPSA42
4B	80	3	80	TO-92	497-5213-ND◆	.55	4.40	33.00	2STX1360
	400	3	10	TO-92	497-4429-ND◆	.70	5.60	42.00	STX13005
5	40	4	40	SOT-32	497-2583-5-ND◆	.75	5.96	44.70	MJE521
	60	3	30	SOT-32	497-4821-5-ND◆	.74	5.94	44.55	2SD882
	60	4	25	SOT-32	497-2601-5-ND◆	.94	8.13	62.50	2N5191
	60	4	750	SOT-32	497-2600-5-ND◆	1.13	9.75	75.00	BD677A
	60	4	750	SOT-32	497-5714-NDΔ◆	.95	7.56	56.70	BD677
	80	4	100	SOT-32	497-5776-NDΔ◆	.95	7.56	56.70	BD679
	80	4	100	SOT-32	497-2549-5-ND◆	.65	5.20	39.00	MJE802
	80	4	20	SOT-32	497-2591-5-ND	.98	8.45	65.00	2N5192
	80	4	750	SOT-32	497-2560-5-ND◆	.86	6.84	51.30	2N6039
	100	3	12	SOT-32	497-2590-5-ND◆	.66	5.28	39.60	MJE182
	300	0.5	30	SOT-32	497-2624-5-ND◆	.72	5.72	42.90	MJE340
6	45	8	20	TO-220	497-5203-5-ND◆	1.29	11.21	86.25	BD533
	60	1	15	TO-220	497-2580-5-ND◆	.86	6.84	51.30	TIP29A
	60	2	1,000	TO-220	497-2545-5-ND◆	.86	6.84	47.50	TIP110
	60	3	10	TO-220	497-5202-5-ND◆	1.09	9.43	72.50	BD241A
6	60	3	10	TO-220	497-2602-5-ND◆	.69	5.54	41.58	TIP31A
	60	5	1,000	TO-220	497-2539-5-ND◆	.74	5.94	44.55	TIP120
	60	6	15	TO-220	497-5170-5-ND◆	1.08	8.64	64.80	TIP41A
	60	10	40	TO-220	497-2574-5-ND◆	1.16	10.01	77.00	D44H8
	70	10	20	TO-220	497-2573-5-ND◆	.99	7.92	59.40	MJE3055T
	80	5	1,000	TO-220	497-2537-5-ND◆	.94	7.52	56.43	TIP121
	80	10	1,000	TO-220	497-2562-5-ND◆	1.16	10.08	77.50	2N6388
	80	10	40	TO-220	497-2616-5-ND◆	1.03	8.94	68.75	D44H11
	100	1	15	TO-220	497-2611-5-ND◆	.75	5.96	44.70	TIP29C
	100	2	1,000	TO-220	497-2533-5-ND◆	.77	6.12	45.90	TIP112
	100	3	10	TO-220	497-2615-5-ND◆	.69	5.54	41.58	TIP31C
	100	5	1,000	TO-220	497-2543-5-ND◆	.77	6.12	45.90	TIP122
	100	6	15	TO-220	497-2632-5-ND◆	1.20	10.40	80.00	BD243C
	100	6	15	TO-220	497-2622-5-ND◆	.95	7.56	52.50	TIP41C
	100	8	1,000	TO-220	497-2546-5-ND◆	.77	6.12	45.90	TIP102
	350	1	30	TO-220	497-2631-5-ND◆	1.09	9.43	72.50	TIP47
	350	15	300	TO-220	497-2740-5-ND◆	3.15	27.40	204.05	BU941ZT
	400	1	30	TO-220	497-2627-5-ND◆	.84	6.73	50.49	TIP48
	400	4	16	TO-220	497-3130-5-ND◆	1.43	12.35	95.00	BUL742A
	400	4	8	TO-220	497-3149-5-ND	1.24	10.73	82.50	ST13005
	400	10	300	TO-220	497-2797-5-ND◆	2.81	23.38	196.35	BU931T
	450	10	8	TO-220	497-2581-5-ND◆	1.08	8.64	64.80	BUL38D
	450	5	10	TO-220	497-6007-5-ND◆	1.24	10.73	82.50	BUL805
	500	1	15	TO-220	497-2605-5-ND◆	.74	5.94	44.55	TIP50
	700	3	4	TO-220	497-5215-5-ND◆	1.20	10.40	80.00	BUL7216
	700	8	6	TO-220	497-3510-ND	1.50	13.00	100.00	ST13009
	800	4	12	TO-220	497-2638-5-ND◆	1.68	14.03	117.81	BUL216
7	15	1.5	80	SOT-23	497-6205-1-ND◆‡	.38	2.81	19.80	STR1215
	15	1.5	80	SOT-23	497-6205-2-ND◆†		243.00/3,000		STR1215
	30	0.1	25	SOT-23	497-5685-1-ND◆‡	.43	3.13	22.00	2STR1230
	30	0.1	25	SOT-23	497-5685-2-ND◆†		270.00/3,000		2STR1230
	300	0.1	25	SOT-23	497-4650-1-ND◆‡	.46	2.70	17.55	S0642
	300	0.1	25	SOT-23	497-4650-2-ND◆†		213.00/3,000		S0642
	300	0.5	40	SOT-23	497-2480-1-ND◆‡	.48	2.80	18.20	MMBTA42
	300	0.5	40	SOT-23	497-2480-2-ND◆†		197.40/3,000		MMBTA42
8	100	10	1,000	TO-247	497-2541-5-ND◆	1.68	14.00	117.60	TIP142
	100	15	750	TO-247	497-2607-5-ND	3.00	25.00	210.00	BDW83C
	100	15	20	TO-247	497-2586-5-ND◆	1.76	15.28	117.50	TIP3055
	100	25	15	TO-247	497-2609-5-ND◆	1.74	14.50	121.80	TIP35C
	140	10	20	TO-247	497-2614-5-ND◆	1.80	15.00	126.00	TIP33C
	400	15	300	TO-247	497-3128-5-ND◆	2.97	24.75	207.90	BU931P
	450	15	—	TO-247	497-2544-5-ND◆	3.27	28.44	211.75	BUV48A
9	350	15	300	ISOWATT-218	497-2542-5-ND◆	4.01	34.90	259.88	BU941ZPFI
	800	24	6.5		497-4646-5-ND◆	3.51	30.55	227.50	HD1750FX
10	100	25	25	TO-247	497-4633-5-ND◆	2.16	18.00	151.20	TIP35CW10
	450	24	—	TO-247	497-2575-5-ND◆	8.86	80.85	639.10	BUX98APW

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel § Tape and Box Δ Darlington ▲ Flared Lead *(Continued)*

Transistors *(Cont.)*

Fig.	V_{CB} (V)	I_C (A)	H_{FE} Min.	Package	Digi-Key Part No.	Pricing			STMicro. Part No.
						1	10	100	
10	450	30	—	TO-247	497-4085-5-ND◆	6.79	61.95	489.70	BUX420AW
	700	12	10	TO-247	497-3555-ND	1.50	12.50	105.00	STW13009
11A	450	60	150	ISOTOP	497-5334-5-ND◆	29.40	252.00	2234.40	ESM5045DV
	450	84	120	ISOTOP	497-2648-5-ND◆	57.75	495.00	4389.00	ESM6045DV
11B	1000	50	—	ISOTOP	497-3567-5-ND◆	37.80	329.00	2450.00	STE50DE100
12	1500	3	3.5	TO-247-4L	497-4326-5-ND◆	9.20	84.00	664.00	STC03DE150
13	1700	3	5	TO-247-4LHP	497-6272-5-ND◆	7.48	68.25	539.50	STC03DE170HP
14A	1700	4	4	TO-247-4LHV	497-6201-5-ND◆	5.10	44.42	330.75	STC04IE170HV
14B	1700	3	5	TO-247-4LHV	497-6273-5-ND◆	7.48	68.25	539.50	STC03DE170HV
	2200	3	5	TO-247-4LHV	497-6314-5-ND◆	9.20	84.00	664.00	STC03DE220HV
15	60	5	200	I-PAK	497-3518-5-ND◆	.94	8.13	62.50	STD1805-1
16	80	3	80	SOT-89	497-5211-1-ND◆‡	.52	4.00	28.80	2STF1360
	80	3	80	SOT-89	497-5211-2-ND◆†	340.00/2,500			2STF1360
	140	1.5	40	SOT-89	497-4656-1-ND◆‡	1.84	15.93	122.50	STF715
	140	1.5	40	SOT-89	497-4656-2-ND◆†	1630.00/2,500			STF715
	400	1	5	SOT-89	497-3521-1-ND‡	.50	4.00	30.00	STFN42
	400	1	5	SOT-89	497-3521-2-ND†	375.00/2,500			STFN42
17	80	8	40	DPAK	497-2504-1-ND◆‡	.68	5.40	40.50	MJD44H11T4
	80	8	40	DPAK	497-2504-2-ND◆†	535.00/2,500			MJD44H11T4
	100	2	1,000	DPAK	497-2462-1-ND◆‡	.68	5.40	40.50	MJD112T4
	100	2	1,000	DPAK	497-2462-2-ND◆†	535.00/2,500			MJD112T4
	100	3	10	DPAK	497-2484-1-ND◆‡	.65	5.20	39.00	MJD31CT4
	100	3	10	DPAK	497-2484-2-ND◆†	487.50/2,500			MJD31CT4
	100	5	1,000	DPAK	497-2469-1-ND◆‡	.68	5.40	40.50	MJD122T4
	100	5	1,000	DPAK	497-2469-2-ND◆†	535.00/2,500			MJD122T4
	150	5	20	DPAK	497-5104-1-ND◆‡	1.13	9.75	75.00	STD1805T4
	150	5	20	DPAK	497-5104-2-ND◆†	997.50/2,500			STD1805T4
	150	6	30	DPAK	497-5236-1-ND◆‡	.94	8.13	62.50	2STD1665T4
	150	6	30	DPAK	497-5236-2-ND◆‡	832.50/2,500			2STD1665T4
	350	1	30	DPAK	497-2482-1-ND◆‡	.84	6.73	50.49	MJD47T4
	350	1	30	DPAK	497-2482-2-ND◆†	665.00/2,500			MJD47T4
18	80	1.5	40	SOT-223	497-3178-1-ND‡	.72	5.76	43.20	STN715
	80	3	80	SOT-223	497-5212-1-ND◆‡	.50	4.00	30.00	2STN1360
	80	3	80	SOT-223	497-5212-2-ND◆†	160.00/1,000			2STN1360
	150	5	300	SOT-223	497-3179-1-ND◆‡	.75	6.01	45.09	STN851
	150	5	300	SOT-223	497-3179-2-ND◆†	259.00/1,000			STN851
19	60	3	100	TO-220FP	497-5900-5-ND◆	.78	6.23	46.71	2SD2012
	350	15	300	TO-220FP	497-4641-5-ND◆	3.65	31.73	236.25	BU941ZTFP
22A	36	20	20	M174	497-5457-ND◆	46.38	397.50	3524.50	SD1405
22B	36	8	20	M113	497-5454-ND◆	39.38	337.50	2992.50	SD1274-01
	36	8	20	M113	497-5456-ND◆	39.38	337.50	2992.50	SD1275-01
	36	12	10	M113	497-5458-ND◆	37.63	322.50	2859.50	SD1446
	110	40	15	M177	497-5460-ND◆	126.18	1081.50	9589.30	SD1728
	110	20	15	M174	497-5461-ND◆	106.75	915.00	8113.00	SD1731
29	36	8	20	M135	497-5453-ND◆	61.43	526.50	4668.30	SD1274
	36	8	20	M135	497-5455-ND◆	61.43	526.50	4668.30	SD1275
30	110	10	18	M164	497-5459-ND◆	115.33	988.50	8764.70	SD1727
31	350	15	300	D2PAK	497-6203-5-ND◆∆	3.19	27.73	206.50	BUB941ZT
	400	8	8	D2PAK	497-5726-1-ND◆‡	.98	8.45	65.00	STB13007DT4
	400	8	8	D2PAK	497-5726-2-ND◆†	377.00/1,000			STB13007DT4
PNP									
1	60	0.6	40	TO-39	497-2572-5-ND◆	1.69	14.63	112.50	2N2905A
	200	1	30	TO-39	497-2593-5-ND◆	1.20	10.40	80.00	2N5415
	350	1	30	TO-39	497-2596-5-ND◆	1.35	11.70	90.00	2N5416
2	60	0.6	40	TO-18	497-2577-ND◆	.94	8.13	62.50	2N2907A
	60	0.6	50	TO-18	497-2910-5-ND◆	.94	8.13	62.50	2N2907
3	80	10	1,000	TO-3	497-2392-ND◆	3.51	30.55	227.50	MJ2501
	100	20	750	TO-3	497-2548-5-ND◆	3.56	31.02	231.00	2N6287
4B	60	3	100	TO-92	497-4430-1-ND◆‡▲	.60	4.80	36.00	STX790A-AP
	60	3	100	TO-92	497-4430-3-ND◆§▲	360.00/2,000			STX790A-AP
	300	0.5	50	TO-92	497-5718-1-ND◆‡▲	.33	2.25	15.60	BF421-AP
	300	0.5	50	TO-92	497-5718-3-ND◆§▲	138.00/2,000			BF421-AP
5	40	5	45	SOT-32	497-2589-5-ND◆	.66	5.28	39.60	MJE210
	60	3	30	SOT-32	497-4829-5-ND◆	.74	5.94	44.55	2SB772
	60	4	750	SOT-32	497-5715-ND◆∆	.95	7.56	56.70	BD678
	80	4	20	SOT-32	497-2585-5-ND◆	.99	7.92	59.40	2N5195
	80	4	750	SOT-32	497-5716-ND◆∆	.95	7.56	56.70	BD680
	80	4	750	SOT-32	497-2540-5-ND	.95	7.56	56.70	2N6036
	100	3	12	SOT-32	497-2553-5-ND◆	.68	5.40	40.50	MJE172
	300	0.5	30	SOT-32	497-2630-5-ND◆	.55	4.40	33.00	MJE350
6	40	7	30	TO-220	497-2613-5-ND◆	1.05	9.10	70.00	2N6111
	45	10	40	TO-220	497-2587-5-ND◆	1.44	12.51	96.25	D45H5
	60	2	1,000	TO-220	497-2619-5-ND◆	.84	6.73	50.49	TIP115
	60	3	10	TO-220	497-2538-5-ND◆	.72	5.76	40.00	TIP32A
	60	5	1,000	TO-220	497-2618-5-ND◆	.81	6.48	45.00	TIP125
	60	6	15	TO-220	497-2552-5-ND◆	1.04	8.32	62.37	TIP42A
	60	8	1,000	TO-220	497-2536-5-ND◆	.90	7.20	54.00	TIP105
	60	10	40	TO-220	497-2579-5-ND◆	1.05	9.10	70.00	D45H8
	70	10	20	TO-220	497-2621-5-ND◆	1.04	8.32	62.37	MJE2955T
	80	5	1,000	TO-220	497-2570-5-ND◆	.72	5.76	43.20	TIP126
	80	8	750	TO-220	497-5214-5-ND◆	1.20	10.40	80.00	BDX54B
	80	10	40	TO-220	497-2578-5-ND◆	1.08	8.64	64.80	D45H11
	100	1	15	TO-220	497-2588-5-ND◆	.72	5.76	40.00	TIP30C
	100	2	1,000	TO-220	497-2559-5-ND◆	.77	6.12	45.90	TIP117
	100	3	10	TO-220	497-2628-5-ND◆	.72	5.76	40.00	TIP32C
	100	5	1,000	TO-220	497-2571-5-ND◆	.77	5.53	42.50	TIP127
	100	6	15	TO-220	497-2629-5-ND◆	.86	6.84	51.30	TIP42C
6	100	6	30	TO-220	497-4636-5-ND◆	.72	5.76	43.20	TIP42CN
	100	8	1,000	TO-220	497-2606-5-ND◆	.77	6.12	45.90	TIP107
7	15	1.5	80	SOT-23	497-6206-1-ND◆‡	.38	2.81	19.80	2STR2215
	15	1.5	80	SOT-23	497-6206-2-ND◆†	243.00/3,000			2STR2215
	30	1.5	70	SOT-23	497-5686-1-ND◆‡	.43	3.13	22.00	2STR2230
	30	1.5	70	SOT-23	497-5686-2-ND◆†	270.00/3,000			2STR2230
8	60	10	1,000	TO-247	497-2620-5-ND◆	1.98	16.50	138.60	TIP145
	100	10	1,000	TO-247	497-2569-5-ND◆	1.91	15.95	133.98	TIP147
	100	15	20	TO-247	497-2608-5-ND◆	1.89	15.75	132.30	TIP2955
	100	25	15	TO-247	497-2604-5-ND◆	1.74	14.50	121.80	TIP36C
	140	10	20	TO-247	497-2603-5-ND◆	1.65	14.30	110.00	TIP34C
10	100	25	25	TO-247	497-4634-5-ND◆	2.16	18.00	151.20	TIP36CN
16	20	1.5	75	SOT-89	497-6207-1-ND◆‡	.52	4.00	28.80	STF2220
	20	1.5	75	SOT-89	497-6207-2-ND◆†	340.00/2,500			STF2220
	30	3	100	SOT-89	497-4345-1-ND◆‡	1.13	9.75	75.00	STF817A
	30	3	100	SOT-89	497-4345-2-ND◆†	997.50/2,500			STF817A
	60	3	80	SOT-89	497-6004-1-ND◆‡	.50	4.00	30.00	2STF2360
	60	3	80	SOT-89	497-6004-2-ND◆†	375.00/2,500			2STF2360
17	60	10	20	DPAK	497-3136-1-ND◆‡	1.09	9.43	72.50	MJD2955T4
	60	10	20	DPAK	497-3136-2-ND◆†	965.00/2,500			MJD2955T4
	100	3	10	DPAK	497-2491-1-ND◆‡	.70	5.60	42.00	MJD32CT4
	100	3	10	DPAK	497-2491-2-ND◆†	525.00/2,500			MJD32CT4
	100	5	1,000	DPAK	497-2471-1-ND◆‡	.68	5.40	40.50	MJD127T4
	300	0.5	30	DPAK	497-3137-1-ND◆‡	.94	8.13	62.50	MJD350T4
	300	0.5	30	DPAK	497-3137-2-ND◆†	832.50/2,500			MJD350T4
18	45	5	70	SOT-223	497-6202-1-ND◆‡	.50	4.00	30.00	STN888
	45	5	70	SOT-223	497-6202-2-ND◆†	160.00/3,000			STN888
	35	3	100	SOT-223	497-4365-1-ND◆‡	.72	5.76	43.20	STN749
	35	3	100	SOT-223	497-4365-2-ND◆†	248.00/1,000			STN749
	40	5	50	SOT-223	497-5901-1-ND◆‡	.50	4.00	30.00	2STN2540
	40	5	50	SOT-223	497-5901-2-ND◆†	160.00/1,000			2STN2540
	60	3	80	SOT-223	497-6005-1-ND◆‡	.50	4.00	30.00	2STN2360
	60	3	80	SOT-223	497-6005-2-ND◆†	160.00/1,000			2STN2360
	60	3	100	SOT-223	497-4366-1-ND◆‡	.58	4.45	32.04	STN790A
	60	3	100	SOT-223	497-4366-2-ND◆†	160.00/1,000			STN790A
19	100	5	1,000	TO-220FP	497-3271-5-ND	1.24	10.73	82.50	TIP127FP
NPN/PNP — RoHS Compliant									
20	60	3	30	8-SOIC	497-4518-1-ND‡	1.09	9.43	72.50	STS01DTP06
	60	3	30	8-SOIC	497-4518-2-ND†	965.00/2,500			STS01DTP06

◆ ***RoHS Compliant*** ‡ Cut Tape † Tape and Reel § Tape and Box ∆ Darlington ▲ Flared Lead

RF Power Transistors

Fig.	V_{DSS} (V)	V_{GS} (V)	I_D (A)	Package	Digi-Key Part No.	Price Each			STMicro. Part No.
						1	10	100	
NPN									
LDMOST									
21A	25	±20	4	PowerSO-10RF	497-5295-5-ND	9.43	8.61	6.81	PD54003-E
	25		5	PowerSO-10RF	497-5296-5-ND	13.00	12.03	9.10	PD54008-E
	40		2.5	PowerSO-10RF	497-5297-5-ND	9.43	8.61	6.81	PD55003-E
	40		4	PowerSO-10RF	497-5299-5-ND	13.00	12.03	9.10	PD55008-E
	65		0.25	PowerSO-10RF	497-5304-5-ND	8.63	7.88	6.23	PD57002-E
	65	±20	2.5	PowerSO-10RF	497-5305-5-ND	22.31	19.13	16.96	PD57018-E
	65		4	PowerSO-10RF	497-5307-5-ND	32.38	27.75	24.61	PD57030-E
	65		7	PowerSO-10RF	497-5309-5-ND	49.88	42.75	37.91	PD57060-E
21B	40	±20	2.5	PowerSO-10RF	497-5298-5-ND	9.43	8.61	6.81	PD55003S-E
	40		4	PowerSO-10RF	497-5300-5-ND	13.00	12.03	9.10	PD55008S-E
	40		7	PowerSO-10RF	497-5302-5-ND	21.88	18.75	16.63	PD55025S-E
	40		7	PowerSO-10RF	497-5303-5-ND	25.38	21.75	19.29	PD55035S-E
	65		2.5	PowerSO-10RF	497-5306-5-ND	22.31	19.13	16.96	PD57018S-E
	65	±20	4	PowerSO-10RF	497-5308-5-ND	32.38	27.75	24.61	PD57030S-E
	65		7	PowerSO-10RF	497-5310-5-ND	49.88	42.75	37.91	PD57060S-E
25	65	±20	14	M252	497-5473-5-ND	173.25	148.50	131.67	SD56120M
	65		14	M252	497-5481-5-ND	173.25	148.50	131.67	SD57120
26	65	±20	14	M246	497-5474-ND	168.00	144.00	127.68	SD56120
27	65	±20	4	M243	497-5475-ND	52.50	45.00	39.90	SD57030
	65		5	M243	497-5477-ND	71.75	61.50	54.53	SD57045
	65		7	M243	497-5479-ND	78.75	67.50	59.85	SD57060
28	65	±20	4	M250	497-5476-ND	52.50	45.00	39.90	SD57030-01
	65		5	M250	497-5478-ND	71.75	61.50	54.53	SD57045-01
	65		7	M250	497-5480-ND	78.75	67.50	59.85	SD57060-01
HF/VHF/UHF									
22A	65	±20	0.9	M113	497-5462-ND	39.55	33.90	30.06	SD2900
	65		2.5	M113	497-5463-ND	39.55	33.90	30.06	SD2902
	65		5	M113	497-5465-ND	42.00	36.00	31.92	SD2904
	125		20	M174	497-5467-ND	67.38	57.75	51.21	SD2931-10
	130		20	M174	497-5470-ND	75.25	64.50	57.19	SD2941-10
22C	125	±20	40	M177	497-5469-ND	123.66	105.99	93.98	SD2933
	130		40	M177	497-5472-ND	136.15	116.70	103.48	SD2943
23	65	±20	5	M229	497-5464-ND	77.88	66.75	59.19	SD2903
24	125	±20	40	M244	497-5468-ND	151.55	129.90	115.18	SD2932
	130		10	M244	497-5471-ND	160.13	137.25	121.70	SD2942

Schottky Diodes

Fig. 1 — DO-35

Fig. 2 — DO-41, DO-201AD

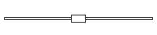

Fig. 3 — TO-220AC

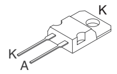

Fig. 4 — TO-220AB

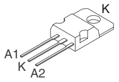

Fig. 5 — ISOTOP

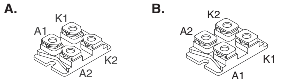

Fig. 6 — TO-247

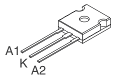

Fig. 7 — SOT-23, SOT-323

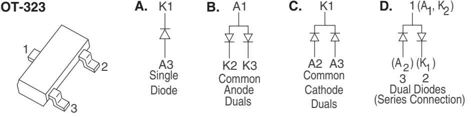

Fig. 8 — DPAK

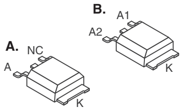

Fig. 9 — D2PAK

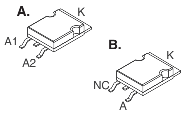

Fig. 10 — MAX247

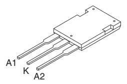

Fig. 11 — SMA, SMB, SMC

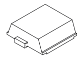

Fig. 12 — SOD-123

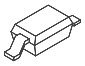

Fig. 13 — DO-216AA

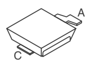

Fig. 14 — MINIMELF

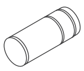

Fig. 15 — SOT-93

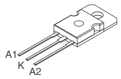

Fig. 16 — SOD-323

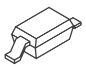

Fig. 17 — TOP-3I

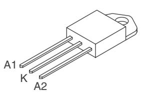

Fig. 18 — MELF

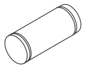

Fig. 19 — TO-220FPAB

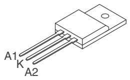

Fig. 20 — I²PAK

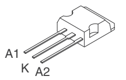

Fig. 21 — SOT-666

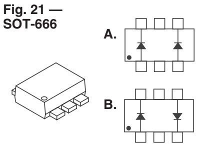

Fig. 22 — SOD-523

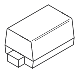

Fig.	V_{RRM} (V)	I_F	Package Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	STMicroelectronics Part No.
1	20	350mA	DO-35	497-3773-1-ND◆	.41	3.00	17.28	497-3773-2-ND◆	4,000	86.00/M	BAT47
	30	200mA	DO-35	497-2492-1-ND◆	.41	3.00	17.28	—	—	—	BAT43
	30	200mA	DO-35	497-2495-1-ND◆	.41	3.00	21.12	497-2495-2-ND◆	4,000	86.00/M	BAT42
	40	350mA	DO-35	497-2512-1-ND◆	.41	3.00	21.12	497-2512-2-ND◆	4,000	86.00/M	BAT48
	60	15mA	DO-35	497-2508-1-ND◆	.41	3.00	21.12	497-2508-2-ND◆	4,000	86.00/M	1N6263
	70	15mA	DO-35	497-2499-1-ND◆	.41	3.00	21.12	497-2499-2-ND◆	4,000	86.00/M	1N5711
	100	100mA	DO-35	497-2493-1-ND◆	.41	3.00	21.12	497-2493-2-ND◆	4,000	86.00/M	BAT41
	100	150mA	DO-35	497-3768-1-ND◆	.46	3.50	25.20	497-3768-2-ND◆	4,000	119.00/M	BAT46
2	20	1A	DO-41	497-4547-1-ND◆	.44	3.00	20.80	497-4547-3-ND◆§	2,000	92.00/M	1N5817
	30	1A	DO-41	497-4548-1-ND◆	.44	3.00	20.80	497-4548-3-ND◆§	2,000	92.00/M	1N5818
	60	2A	DO-41	497-3214-1-ND◆	.65	5.20	39.00	497-3214-3-ND◆§	2,000	208.00/M	STPS2L60
	150	1A	DO-41	497-2447-1-ND◆	.42	3.25	23.40	497-2447-3-ND◆§	2,000	117.00/M	STPS1150
	150	2A	DO-15	497-3213-1-ND◆	.45	3.60	27.00	497-3213-3-ND◆§	1,000	144.00	STPS2150
	30	3A	DO-201AD	497-5572-1-ND◆	.52	4.00	28.80	497-5572-2-ND◆	1,900	144.00/M	1N5821RL
	150	3A	DO-201AD	497-3216-1-ND◆	.55	4.40	33.00	497-3216-2-ND◆	1,900	176.00/M	STPS3150RL
3	25	10A	TO-220AC	497-2738-5-ND◆‡	1.50	13.00	100.00	—	—	—	STPS10L25D
	45	7.5A	TO-220AC	497-2749-5-ND◆‡	1.09	8.71	65.34	—	—	—	STPS745D
	45	10A	TO-220AC	497-2754-5-ND◆‡	1.08	8.64	64.80	—	—	—	STPS1045D
	45	15A	TO-220AC	497-2753-5-ND◆‡	.95	8.22	63.25	—	—	—	STPS1545D
	100	8A	TO-220AC	497-2737-5-ND◆‡	1.24	10.73	82.50	—	—	—	STPS8H100D
	120	20A	TO-220AB	497-4627-5-ND◆‡	1.28	11.05	85.00	—	—	—	STPS20120D
4	30	2 x 10A	TO-220AB	497-2750-5-ND◆‡	1.31	11.38	87.50	—	—	—	STPS2030CT
	30	2 x 15A	TO-220AB	497-2756-5-ND◆‡	1.65	13.75	115.50	—	—	—	STPS30L30CT
	45	2 x 7.5A	TO-220AB	497-2747-5-ND◆‡	1.03	8.94	68.75	—	—	—	STPS1545CT
	45	2 x 15A	TO-220AB	497-2751-5-ND◆‡	1.44	12.51	96.25	—	—	—	STPS3045CT
	60	2 x 15A	TO-220AB	497-5137-5-ND◆‡	1.56	13.00	109.20	—	—	—	STPS30H60CT
	60	2 x 20A	TO-220AB	497-5206-5-ND◆‡	1.95	16.25	136.50	—	—	—	STPS41L60CT
	100	2 x 10A	TO-220AB	497-2726-5-ND◆‡	1.62	13.50	113.40	—	—	—	STPS20H100CT
	100	2 x 30A	TO-220AB	497-3812-5-ND◆‡	3.59	31.26	232.75	—	—	—	STPS60H100CT
	120	2 x 10A	TO-220AB	497-4626-5-ND◆‡	1.31	11.38	87.50	—	—	—	STPS20120CT
	120	2 x 20A	TO-220AB	497-4629-5-ND◆‡	1.80	15.00	126.00	—	—	—	STPS40120CT
	150	2 x 5A	TO-220AB	497-5398-5-ND◆‡	1.71	14.25	119.70	—	—	—	STPS10150CT
	150	2 x 8A	TO-220AB	497-2739-5-ND◆‡	2.00	16.63	139.65	—	—	—	STPS16150CT
	150	2 x 10A	TO-220AB	497-2730-5-ND◆‡	2.28	19.00	159.60	—	—	—	STPS20150CT
	150	2 x 15A	TO-220AB	497-5400-5-ND◆‡	2.70	22.50	189.00	—	—	—	STPS30150CT
	150	2 x 20A	TO-220AB	497-3217-5-ND◆‡	3.38	29.38	218.75	—	—	—	STPS40150CT
	150	2 x 30A	TO-220AB	497-5207-5-ND◆‡	3.19	27.73	206.50	—	—	—	STPS60150CT
	170	2 x 5A	TO-220AB	497-6076-5-ND◆‡	1.13	9.75	75.00	—	—	—	STPS10170CT
	170	2 X 8A	TO-220AB	497-6079-5-ND◆‡	1.35	11.70	90.00	—	—	—	STPS16170CT
	170	2 x 10A	TO-220AB	497-3525-5-ND◆‡	2.43	20.25	170.10	—	—	—	STPS20170CT
	170	2 x 15A	TO-220AB	497-4825-5-ND◆‡	1.58	13.20	110.88	—	—	—	STPS30170CT
	170	2 x 20A	TO-220AB	497-4827-5-ND◆‡	2.70	23.50	175.00	—	—	—	STPS40170CT
	170	2 x 30A	TO-220AB	497-4828-5-ND◆‡	2.81	23.38	196.35	—	—	—	STPS60170CT
5A	45	2 x 60A	ISOTOP	497-3207-5-ND◆‡	18.38	157.50	1396.50	—	—	—	STPS12045TV
	45	2 x 80A	ISOTOP	497-2741-5-ND◆‡	21.07	180.60	1601.32	—	—	—	STPS16045TV
	45	2 x 120A	ISOTOP	497-5399-5-ND◆‡	30.38	260.40	2308.88	—	—	—	STPS24045TV
	100	2 x 40A	ISOTOP	497-5402-5-ND◆‡	21.28	182.40	1617.28	—	—	—	STPS80H100TV
	100	2 x 80A	ISOTOP	497-2723-5-ND◆‡	26.95	231.00	2048.20	—	—	—	STPS160H100TV
	600	2 x 60A	ISOTOP	497-3811-5-ND◆‡	24.50	210.00	1862.00	—	—	—	STTH120L06TV1
5B	170	2 x 100A	ISOTOP	497-5022-5-ND◆‡	21.00	180.00	1596.00	—	—	—	STPS200170TV1
6	15	2 x 20A	TO-247	497-2687-5-ND◆‡	3.47	30.24	225.23	—	—	—	STPS40L15CW
	30	2 x 30A	TO-247	497-2755-5-ND◆‡	4.10	35.67	265.65	—	—	—	STPS60L40CW
	45	2 x 30A	TO-247	497-3803-5-ND◆‡	3.27	28.44	211.75	—	—	—	STPS6045CW
	45	2 x 30A	TO-247	497-3745-5-ND◆‡	4.40	38.31	285.25	—	—	—	STPS60L45CW
	60	2 x 15A	TO-247	497-5138-5-ND◆‡	1.56	13.00	109.20	—	—	—	STPS30H60CW
	100	2 x 20A	TO-247	497-2725-5-ND◆‡	2.75	23.97	178.50	—	—	—	STPS40H100CW
	100	2 x 30A	TO-247	497-3220-5-ND◆‡	5.40	47.00	350.00	—	—	—	STPS61H100CW
	150	2 x 15A	TO-247	497-5401-5-ND◆‡	3.86	33.61	250.25	—	—	—	STPS30150CW
	150	2 x 20A	TO-247	497-3218-5-ND◆‡	3.65	31.73	236.25	—	—	—	STPS40150CW
	150	2 x 30A	TO-247	497-3219-5-ND◆‡	5.40	47.00	350.00	—	—	—	STPS61150CW
	150	2 x 40A	TO-247	497-3221-5-ND◆‡	6.03	55.02	434.92	—	—	—	STPS80150CW
	170	2 x 15A	TO-247	497-4826-5-ND◆‡	1.75	14.58	122.43	—	—	—	STPS30170CW
	170	2 x 20A	TO-247	497-4814-5-ND◆‡	1.49	12.38	103.95	—	—	—	STPS40170CW
	170	2 x 30A	TO-247	497-4823-5-ND◆‡	3.56	31.02	231.00	—	—	—	STPS61170CW
	170	2 x 40A	TO-247	497-4815-5-ND◆‡	4.01	34.90	259.88	—	—	—	STPS80170CW
7A	30	100mA	SOT-23	497-2518-1-ND◆	.40	2.70	18.72	497-2518-2-ND◆	3,000	72.00/M	BAR42FILM
	30	100mA	SOT-23	497-2521-1-ND◆	.40	2.70	18.72	497-2521-2-ND◆	3,000	72.00/M	BAR43FILM
	30	300mA	SOT-23	497-5699-1-ND◆	.37	2.55	17.68	497-5699-2-ND◆	3,000	68.00/M	BAT30FILM
	70	70mA	SOT-23	497-5694-1-ND◆	.43	3.13	22.00	497-5694-2-ND◆	3,000	90.00/M	BAS70FILM
	70	70mA	SOT-23	497-2529-1-ND◆	.41	3.00	21.12	497-2529-2-ND◆	3,000	86.00/M	BAR18FILM
	100	150mA	SOT-23	497-5709-1-ND◆	.43	3.13	22.00	497-5709-2-ND◆	3,000	90.00/M	BAT46FILM

◆ ***RoHS Compliant*** ‡ Tube § Ammo Pack ◊ Bulk

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Schottky Diodes *(Cont.)*

Fig.	V_{RRM} (V)	I_F	Package Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	STMicroelectronics Part No.
7B	30	100mA	SOT-23	497-2514-1-ND◆	.40	2.70	18.72	497-2514-2-ND◆	3,000	72.00/M	BAR43AFILM
	30	300mA	SOT-23	497-5697-1-ND◆	.42	2.85	19.76	497-5697-2-ND◆	3,000	76.00/M	BAT30AFILM
	100	150mA	SOT-23	497-5706-1-ND◆	.43	3.13	22.00	497-5706-2-ND◆	3,000	90.00/M	BAT46AFILM
7C	30	100mA	SOT-23	497-2520-1-ND◆	.40	2.70	18.72	497-2520-2-ND◆	3,000	72.00/M	BAR43CFILM
	30	0.3A	SOT-23	497-3786-1-ND◆	.40	2.70	18.72	497-3786-2-ND◆	3,000	72.00/M	BAT54CFILM
	30	300mA	SOT-23	497-5698-1-ND◆	.42	2.85	19.76	497-5698-2-ND◆	3,000	76.00/M	BAT30CFILM
	100	150mA	SOT-23	497-5708-1-ND◆	.43	3.13	22.00	497-5708-2-ND◆	3,000	90.00/M	BAT46CFILM
7D	30	0.3A	SOT-23	497-2522-1-ND◆	.40	2.70	18.72	497-2522-2-ND◆	3,000	72.00/M	BAT54SFILM
	30	100mA	SOT-23	497-2515-1-ND◆	.40	2.70	18.72	497-2515-2-ND◆	3,000	72.00/M	BAR43SFILM
	30	300mA	SOT-23	497-5700-1-ND◆	.42	2.85	19.76	497-5700-2-ND◆	3,000	76.00/M	BAT30SFILM
	70	70mA	SOT-23	497-2516-1-ND◆	.40	2.70	18.72	497-2516-2-ND◆	3,000	72.00/M	BAS70-04FILM
	100	150mA	SOT-23	497-5710-1-ND◆	.43	3.13	22.00	497-5710-2-ND◆	3,000	90.00/M	BAT46SFILM
7A	15	10mA	SOT-323	497-5691-1-ND◆	.40	2.70	18.72	497-5691-2-ND◆	3,000	72.00/M	BAS69WFILM
	30	300mA	SOT-323	497-5701-1-ND◆	.37	2.55	17.68	497-5701-2-ND◆	3,000	68.00/M	BAT30WFILM
	30	0.3A	SOT-323	497-2530-1-ND	.40	2.70	18.72	497-2530-2-ND	3,000	72.00/M	BAT54WFILM
	100	200mA	SOT-323	497-5705-1-ND◆	.44	3.00	20.80	497-5705-2-ND◆	3,000	80.00/M	BAT41WFILM
7B	15	10mA	SOT-323	497-5689-1-ND◆	.44	3.00	20.80	497-5689-2-ND◆	3,000	80.00/M	BAS69-06WFILM
	30	300mA	SOT-323	497-5549-1-ND◆	.42	2.85	19.76	497-5549-2-ND◆	3,000	76.00/M	BAT30AWFILM
	100	150mA	SOT-323	497-5707-1-ND◆	.43	3.13	22.00	497-5707-2-ND◆	3,000	90.00/M	BAT46AWFILM
	100	200mA	SOT-323	497-5555-1-ND◆	.48	3.30	22.88	497-5555-2-ND◆	3,000	88.00/M	BAT41AWFILM
	30	0.3A	SOT-323	497-2528-1-ND◆	.40	2.70	18.72	497-2528-2-ND◆	3,000	72.00/M	BAT54AWFILM
7C	15	10mA	SOT-323	497-5688-1-ND◆	.44	3.00	20.80	497-5688-2-ND◆	3,000	80.00/M	BAS69-05WFILM
	30	300mA	SOT-323	497-5550-1-ND◆	.42	2.85	19.76	497-5550-2-ND◆	3,000	76.00/M	BAT30CWFILM
	100	200mA	SOT-323	497-5703-1-ND◆	.48	3.30	22.88	497-5703-2-ND◆	3,000	88.00/M	BAT41CWFILM
7D	15	10mA	SOT-323	497-5687-1-ND◆	.44	3.00	20.80	497-5687-2-ND◆	3,000	80.00/M	BAS69-04WFILM
	30	300mA	SOT-323	497-5553-1-ND◆	.42	2.85	19.76	497-5553-2-ND◆	3,000	76.00/M	BAT30SWFILM
	100	200mA	SOT-323	497-5557-1-ND◆	.48	3.30	22.88	497-5557-2-ND◆	3,000	88.00/M	BAT41SWFILM
	100	150mA	SOT-323	497-5569-1-ND◆	.43	3.13	22.00	497-5569-2-ND◆	3,000	90.00/M	BAT46SWFILM
8A	30	8A	DPAK	497-3222-1-ND	1.73	14.95	115.00	497-3222-2-ND	2,500	611.80/M	STPS8L30B-TR
8B	40	3A	DPAK	497-2466-1-ND◆	.81	5.85	45.00	497-2466-2-ND◆	2,500	257.00/M	STPS340B-TR
	45	2 x 7.5A	DPAK	497-3208-1-ND	1.50	12.50	105.00	497-3208-2-ND	2,500	650.00/M	STPS15H100CB-TR
	45	2 x 7.5A	DPAK	497-2748-5-ND◆‡	1.01	8.78	67.50	—	—	—	STPS15L45CB
	100	5A	DPAK	497-2640-5-ND‡	1.62	13.50	113.40	—	—	—	STPS5H100B
	170	2 X 5A	DPAK	497-6075-1-ND◆	1.13	9.75	75.00	497-6075-2-ND◆	2,500	399.00/M	STPS10170CB-TR
	170	2 X 8A	DPAK	497-6078-1-ND◆	1.35	11.70	90.00	497-6078-2-ND◆	2,500	479.00/M	STPS16170CB-TR
9A	45	2 x 10A	D^{2}PAK	497-2752-5-ND◆‡	1.35	11.70	90.00	—	—	—	STPS20L45CG
	45	2 x 20A	D^{2}PAK	497-3528-1-ND◆	2.49	20.75	174.30	497-3528-2-ND◆	1,000	1121.00	STPS40L45CG-TR
	45	2 x 20A	D^{2}PAK	497-4759-1-ND◆	2.10	17.50	147.00	497-4759-2-ND◆	1,000	945.00	STPS41L45CG-TR
	60	2 x 5A	D^{2}PAK	497-6081-1-ND◆	1.58	13.65	105.00	497-6081-2-ND◆	1,000	638.00	STPS10L60CG-TR
	60	2 x 15A	D^{2}PAK	497-5136-1-ND◆	1.65	13.75	115.50	497-5136-2-ND◆	1,000	743.00	STPS30H60CG-TR
	100	2 x 5A	D^{2}PAK	497-4816-5-ND◆‡	1.03	8.94	68.75	—	—	—	STPS10H100CG
	100	2 x 8A	D^{2}PAK	497-2722-5-ND◆‡	1.35	10.80	81.00	—	—	—	STPS16H100G
	100	2 x 10A	D^{2}PAK	497-2457-1-ND◆	1.62	13.50	113.40	497-2457-2-ND◆	1,000	729.00	STPS20H100CG-TR
	150	2 x 20A	D^{2}PAK	497-3527-5-ND◆‡	2.70	23.50	175.00	—	—	—	STPS40150CG
	150	2 x 20A	D^{2}PAK	497-3754-1-ND◆	2.34	19.50	163.80	497-3754-2-ND◆	1,000	1053.00	STPS40150CG-TR
	170	2 x 5A	D^{2}PAK	497-6074-1-ND◆	1.16	10.08	77.50	497-6074-2-ND◆	1,000	450.00	STPS10170CG-TR
	170	2 x 8A	D^{2}PAK	497-6077-1-ND◆	1.65	14.30	110.00	497-6077-2-ND◆	1,000	638.00	STPS16170CG-TR
	170	2 x 10A	D^{2}PAK	497-4761-1-ND◆	1.44	12.51	96.25	497-4761-2-ND◆	1,000	558.00	STPS20170CG-TR
	170	2 x 15A	D^{2}PAK	497-5135-1-ND◆	1.65	13.75	115.50	497-5135-2-ND◆	1,000	743.00	STPS30170CG-TR
	170	2 x 20A	D^{2}PAK	497-4760-1-ND◆	2.97	25.85	192.50	497-4760-2-ND◆	1,000	1463.00	STPS40170CG-TR
	600	12A	D^{2}PAK	497-3814-5-ND◆‡	1.80	15.60	120.00	—	—	—	STTH12R06G
9B	25	10A	D^{2}PAK	497-5134-1-ND◆	1.80	15.60	120.00	497-5134-2-ND◆	1,000	696.00	STPS10L25G-TR
10	60	2 x 40A	MAX247	497-5403-5-ND◆‡	12.36	114.33	865.20	—	—	—	STPS80L60CY
	100	2 x 40A	MAX247	497-2724-5-ND◆‡	12.36	114.33	865.20	—	—	—	STPS80H100CY
11	30	1A	SMA	497-3755-1-ND◆	.50	4.00	30.00	497-3755-2-ND◆	5,000	140.00/M	STPS130A
	30	2A	SMA	497-3759-1-ND◆	.81	6.48	48.60	497-3759-2-ND◆	5,000	243.00/M	STPS2L30A
	40	1A	SMA	497-2453-1-ND◆	.42	3.25	23.40	497-2453-2-ND◆	5,000	104.00/M	STPS140A
	40	1A	SMA	497-3753-1-ND	.55	4.25	25.50	—	—	—	STPS1L40A
	60	1A	SMA	497-2463-1-ND◆	.68	2.88	21.60	497-2463-2-ND◆	5,000	136.00/M	STPS1L60A
	60	1A	SMA	497-3756-1-ND◆	.72	5.76	43.20	497-3756-2-ND◆	5,000	216.00/M	STPS160A
	60	2A	SMA	497-2461-1-ND◆	.55	3.40	25.50	497-2461-2-ND◆	5,000	136.00/M	STPS2L60A
	100	1A	SMA	497-3209-1-ND◆	.86	6.84	51.30	497-3209-2-ND◆	5,000	257.00/M	STPS1H100A
	100	2A	SMA	497-3758-1-ND◆	.90	7.20	54.00	497-3758-2-ND◆	5,000	270.00/M	STPS2H100A
	150	2A	SMA	497-2467-1-ND◆	.40	3.20	24.00	497-2467-2-ND◆	5,000	112.00/M	STPS2150A
	25	2A	SMB	497-5573-1-ND◆	.86	6.84	51.30	—	—	—	STPS2L25U
	30	1A	SMB	497-2468-1-ND◆	.49	3.75	27.00	497-2468-2-ND◆	2,500	128.00/M	STPS1L30U
	40	1A	SMB	497-2490-1-ND◆	.50	3.85	27.72	497-2490-2-ND◆	2,500	131.00/M	STPS140U
	40	2A	SMB	497-5574-1-ND◆	.55	4.40	33.00	497-5574-2-ND◆	2,500	165.00/M	STPS2L40U
	40	3A	SMB	497-2465-1-ND◆	.68	5.40	40.50	497-2465-2-ND◆	2,500	214.00/M	STPS340U
	100	1A	SMB	497-3210-1-ND	1.28	11.05	85.00	497-3210-2-ND	2,500	452.20/M	STPS1H100U
	25	3A	SMC	497-3760-1-ND	.90	7.20	54.00	497-3760-2-ND	2,500	285.00/M	STPS3L25S
	40	3A	SMC	497-2464-1-ND◆	.72	5.72	42.90	497-2464-2-ND◆	2,500	215.00/M	STPS340S
	40	3A	SMC	497-4673-1-ND◆	.72	5.76	43.20	497-4673-2-ND◆	2,500	228.00/M	STPS3L40S
	60	3A	SMC	497-2454-1-ND◆	.72	5.72	42.90	497-2454-2-ND◆	2,500	215.00/M	STPS3L60S
12	20	0.5A	SOD-123	497-3205-1-ND◆	.65	5.20	39.00	497-3205-2-ND◆	3,000	195.00/M	STPS0520Z
	40	300mA	SOD-123	497-5562-1-ND◆	.42	2.85	19.76	497-5562-2-ND◆	3,000	76.00/M	BAT54ZFILM
	40	350mA	SOD-123	497-5712-1-ND◆	.41	3.00	21.12	497-5712-2-ND◆	3,000	86.00/M	BAT48ZFILM
	60	0.5A	SOD-123	497-3787-1-ND◆	.42	2.60	19.50	497-3787-2-ND◆	3,000	111.00/M	STPS0560Z
	70	70mA	SOD-123	497-5696-1-ND◆	.42	2.85	19.76	497-5696-2-ND◆	3,000	76.00/M	BAS70ZFILM
	100	200mA	SOD-123	497-5558-1-ND◆	.39	2.88	20.24	497-5558-2-ND◆	3,000	83.00/M	BAT41ZFILM
	100	150mA	SOD-123	497-5559-1-ND◆	.41	3.00	21.12	497-5559-2-ND◆	3,000	86.00/M	BAT46ZFILM
13	20	0.5A	DO-216AA	497-4390-1-ND◆	.55	4.25	30.60	497-4390-2-ND◆	12,000	128.00/M	STPS0520M
	20	1A	DO-216AA	497-3211-1-ND	.60	4.80	36.00	497-3211-2-ND	12,000	159.60/M	STPS1L20M
	40	1A	DO-216AA	497-3212-1-ND◆	.60	4.80	36.00	497-3212-2-ND◆	12,000	160.00/M	STPS1L40M
14	30	200mA	MINIMELF	497-3272-1-ND◆	.55	4.40	33.00	497-3272-2-ND◆	2,500	165.00/M	TMMBAT42FILM
	40	350mA	MINIMELF	497-3274-1-ND◆	.65	5.20	39.00	497-3274-2-ND◆	2,500	195.00/M	TMMBAT48FILM
	100	150mA	MINIMELF	497-3273-1-ND◆	.55	4.40	33.00	497-3273-2-ND◆	2,500	165.00/M	TMMBAT46FILM
15	45	2 x 15A	SOT-93	497-3215-5-ND‡	2.73	23.74	176.75	—	—	—	STPS3045CP
16	10	3A	SOD-323	497-3707-1-ND◆	.60	4.80	36.00	497-3707-2-ND◆	3,000	180.00/M	BAT60JFILM
	23	1A	SOD-323	497-3381-1-ND◆	.46	3.50	25.20	497-3381-2-ND◆	3,000	119.00/M	BAT20JFILM
	30	300mA	SOD-323	497-5551-1-ND◆	.37	2.55	17.68	497-5551-2-ND◆	3,000	68.00/M	BAT30JFILM
	40	350mA	SOD-323	497-5711-1-ND◆	.41	3.00	21.12	497-5711-2-ND◆	3,000	86.00/M	BAT48JFILM
	100	200mA	SOD-323	497-5704-1-ND◆	.44	3.00	20.80	497-5704-2-ND◆	3,000	80.00/M	BAT41JFILM
17	45	2 x 15A	TOP-3I	497-3526-ND◊	3.51	30.55	227.50	—	—	—	STPS3045CPIRG
	45	2 x 30A	TOP-3I	497-3529-ND◊	4.86	42.30	315.00	—	—	—	STPS6045CPIRG
18	80	500mA	MELF	497-3788-1-ND◆	.43	3.30	23.76	497-3788-2-ND◆	1,500	119.00/M	TMBAT49FILM

◆ ***RoHS Compliant*** ‡ Tube § Ammo Pack ◊ Bulk *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Schottky Diodes *(Cont.)*

Fig.	V_{RRM} (V)	I_F	Package Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
					1	10	100		Qty.	Pricing	
19	45	2 x 10A	TO-220FPAB	497-6080-5-ND◆‡	1.69	14.63	112.50	—	—	—	STPS2045CFP
	45	2 x 15A	TO-220FPAB	497-4393-5-ND◆‡	1.50	12.50	105.00	—	—	—	STPS30L45CFP
	45	2 x 15A	TO-220FPAB	497-4628-5-ND◆‡	1.39	12.03	92.50	—	—	—	STPS3045CFP
	150	2 x 10A	TO-220FPAB	497-4391-5-ND◆‡	1.50	12.50	105.00	—	—	—	STPS20150CFP
	170	2 x 15A	TO-220FPAB	497-4824-5-ND◆‡	1.75	14.58	122.43	—	—	—	STPS30170CFP
20	45	2 x 10A	I^{2}PAK	497-4392-5-ND◆‡	1.39	12.03	92.50	—	—	—	STPS2045CR
	45	2 x 15A	I^{2}PAK	497-4394-5-ND◆‡	1.50	12.50	105.00	—	—	—	STPS30L45CR
	120	2 x 10A	I^{2}PAK	497-4625-5-ND◆‡	1.31	11.38	87.50	—	—	—	STPS20120CR
	170	2 x 10A	I^{2}PAK	497-4822-5-ND◆‡	1.40	12.16	93.50	—	—	—	STPS20170CR
21A	15	10mA	SOT-666	497-5545-1-ND◆	.46	3.50	25.20	497-5545-2-ND◆	3,000	119.00/M	BAS69-07P6FILM
	30	300mA	SOT-666	497-5547-1-ND◆	.44	3.40	24.48	497-5547-2-ND◆	3,000	116.00/M	BAT30-07P6FILM
	40	300mA	SOT-666	497-5560-1-ND◆	.44	3.40	24.48	497-5560-2-ND◆	3,000	116.00/M	BAT54-07P6FILM
	70	70mA	SOT-666	497-5692-1-ND◆	.44	3.40	24.48	497-5692-2-ND◆	3,000	116.00/M	BAS70-07P6FILM
	100	200mA	SOT-666	497-5554-1-ND◆	.48	3.70	26.64	497-5554-2-ND◆	3,000	126.00/M	BAT41-07P6FILM
21B	15	10mA	SOT-666	497-5690-1-ND◆	.46	3.50	25.20	497-5690-2-ND◆	3,000	119.00/M	BAS69-09P6FILM
	30	300mA	SOT-666	497-5548-1-ND◆	.46	3.50	25.20	497-5548-2-ND◆	3,000	119.00/M	BAT30-09P6FILM
	40	300mA	SOT-666	497-5713-1-ND◆	.44	3.40	24.48	497-5713-2-ND◆	3,000	116.00/M	BAT54-09P6FILM
	70	70mA	SOT-666	497-5693-1-ND◆	.44	3.40	24.48	497-5693-2-ND◆	3,000	116.00/M	BAS70-09P6FILM
	100	200mA	SOT-666	497-5702-1-ND◆	.48	3.70	26.64	497-5702-2-ND◆	3,000	126.00/M	BAT41-09P6FILM
22	15	10mA	SOD-523	497-5546-1-ND◆	.43	3.13	22.00	497-5546-2-ND◆	3,000	90.00/M	BAS69KFILM
	30	300mA	SOD-523	497-5552-1-ND◆	.43	3.13	22.00	—	—	—	BAT30KFILM
	40	300mA	SOD-523	497-5561-1-ND◆	.43	3.13	22.00	497-5561-2-ND◆	3,000	90.00/M	BAT54KFILM
	70	70mA	SOD-523	497-5695-1-ND◆	.43	3.13	22.00	497-5695-2-ND◆	3,000	90.00/M	BAS70KFILM
	100	200mA	SOD-523	497-5556-1-ND◆	.48	3.50	24.64	497-5556-2-ND◆	3,000	101.00/M	BAT41KFILM

◆ ***RoHS Compliant*** ‡ Tube § Ammo Pack ◊ Bulk

Fast Diodes

Fig. 1 — DO-15, DO-41, DO-201AB, DO-201AD

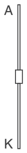

Fig. 2 — TO-220AC

A.
1. Cathode
2. Anode
3. Cathode

B.
1. Cathode
2. Anode
3. —

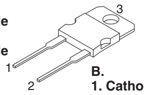

Fig. 3 — TO-220AB

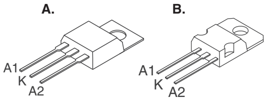

Fig. 4 — TO-247

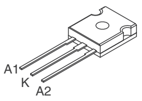

Fig. 5 — DOP3I Isolated

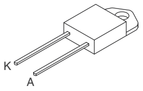

Fig. 6 — ISOTOP

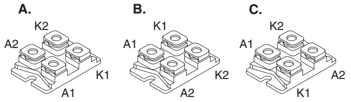

Fig. 7 — SMA, SMB, SMC

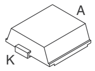

Fig. 8 — SOD93

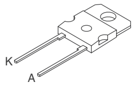

Fig. 9 — TO-220FPAC

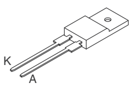

Fig. 10 — TO-220AB Isolated

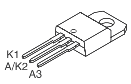

Fig. 11 — TO-220, TO-220AC Isolated

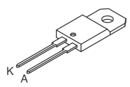

Fig. 12 — DPAK

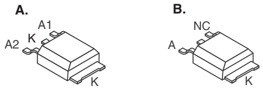

Fig. 13 — D^{2}PAK

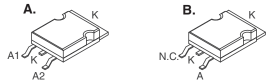

Fig. 14 — I^{2}PAK

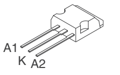

Fig. 15 — TO-220FPAB

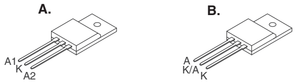

Fig. 16 — TOP3I Isolated

Fig. 17 — DO-247

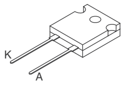

Fig. 18 — TO-220FPAB F5

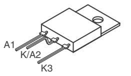

Fig. 19 — TO-220FPAB FD6

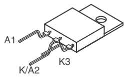

Fig.	V_{RRM} (V)	I_F	Package Type	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
					1	10	100		Qty.	Pricing	
1	200	2A	DO-15	497-5763-1-ND◆‡	.55	4.25	30.60	497-5763-2-ND◆	6,000	136.00/M	STTH2R02QRL
	200	3A	DO-15	497-5765-1-ND◆‡	.45	3.60	27.00	497-5765-2-ND◆	6,000	126.00/M	STTH3R02QRL
	200	3A	DO-15	497-6083-1-ND◆‡	.45	3.60	27.00	497-6083-3-ND◆§	1,000	144.00	STTH3R02Q
	400	1A	DO-15	497-2446-1-ND◆‡	.36	2.75	19.80	497-2446-3-ND◆§	1,000	110.00	BYT01-400
	800	2A	DO-15	497-2443-1-ND◆‡	.68	5.40	40.50	497-2443-3-ND◆§	1,000	232.50	STTH208
	200	1A	DO-41	497-3666-1-ND◆‡	1.08	8.64	64.80	497-3666-3-ND◆§	2,000	372.00/M	STTH102
	200	1.5A	DO-41	497-5571-1-ND◆‡	.46	3.50	25.20	497-5571-3-ND◆§	2,000	126.00/M	STTH1R02
	200	1.5A	DO-41	497-6098-1-ND◆‡	.42	3.25	23.40	497-6098-2-ND◆	5,000	104.00/M	STTH1R02RL
	600	1A	DO-41	497-3242-1-ND◆‡	.86	6.84	51.30	497-3242-2-ND	5,000	256.50/M	STTH1L06RL
	600	1A	DO-41	497-3243-1-ND◆‡	.50	4.00	30.00	497-3243-2-ND◆	5,000	140.00/M	STTH1R06RL
	600	2A	DO-41	497-3548-ND◆	.90	7.20	54.00	—	—	—	STTH2L06
	600	2A	DO-41	497-3752-1-ND◆‡	.55	3.96	29.70	497-3752-3-ND◆§	2,000	176.00/M	STTH2R06
	200	4A	DO-201AB	497-6088-1-ND◆‡	.83	6.66	49.95	497-6088-3-ND◆§	600	205.20	STTH4R02
	200	4A	DO-201AB	497-5259-1-ND◆‡	.86	6.84	51.30	497-5259-2-ND◆	1,900	295.00/M	STTH4R02RL
	200	3A	DO-201AD	497-6084-1-ND◆‡	.55	4.25	30.60	497-6084-3-ND◆§	600	107.40	STTH3R02
	200	3A	DO-201AD	497-2445-1-ND◆‡	.50	4.00	30.00	497-2445-3-ND§	600	114.00	STTH302
	200	3A	DO-201AD	497-5257-1-ND◆‡	.45	3.60	27.00	497-5257-2-ND◆	1,900	144.00/M	STTH3R02RL
	600	3A	DO-201AD	497-3246-1-ND‡	.75	4.88	37.50	497-3246-3-ND◆§	600	171.00	STTH3L06
	600	3A	DO-201AD	497-4414-1-ND◆‡	.81	6.48	48.60	497-4414-3-ND◆§	600	199.80	STTH3R06
	600	3A	DO-201AD	497-4415-1-ND◆‡	.81	6.48	48.60	—	—	—	STTH3R06RL
	600	5A	DO-201AD	497-5231-1-ND◆‡	.99	7.92	59.40	497-5231-2-ND◆	1,900	341.00/M	STTH5L06RL
	1,000	3A	DO-201AD	497-2442-1-ND◆‡	.70	5.60	42.00	497-2442-3-ND◆§	600	159.60	STTH310

◆ ***RoHS Compliant*** ‡ Cut Tape § Ammo Pack

(Continued)

Fast Diodes *(Cont.)*

Fig.	V_{RRM} (V)	I_F	Package Type	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
					1	10	100		Qty.	Pricing	
2A	200	4A	TO-220AC	497-5281-5-ND◆	.90	7.20	54.00	—	—	—	STTH4R02D
	200	8A	TO-220AC	497-5284-5-ND◆	1.08	8.64	64.80	—	—	—	STTH802D
	200	15A	TO-220AC	497-5274-5-ND◆	1.50	13.00	100.00	—	—	—	STTH1502D
	200	20A	TO-220AC	497-5276-5-ND◆	1.89	15.75	132.30	—	—	—	STTH2002D
	600	5A	TO-220AC	497-2746-5-ND◆	1.78	15.44	118.75	—	—	—	STTH5R06D
	600	8A	TO-220AC	497-2745-5-ND◆	1.86	15.50	130.20	—	—	—	STTH8R06D
	600	12A	TO-220AC	497-5406-5-ND◆	1.71	14.25	119.70	—	—	—	STTH12R06D
	600	15A	TO-220AC	497-5408-5-ND◆	2.10	17.50	147.00	—	—	—	STTH15R06D
2B	200	15A	TO-220AC	497-3204-5-ND◆	1.95	16.25	136.50	—	—	—	STPR1520D
	600	8A	TO-220AC	497-2744-5-ND◆	1.16	10.08	77.50	—	—	—	STTH8LO6D
	600	30A	TO-220AC	497-6091-5-ND◆	3.24	28.20	210.00	—	—	—	STTH3006D
	600	30A	TO-220AC	497-3800-5-ND◆	2.52	21.00	176.40	—	—	—	STTH30L06D
	600	30A	TO-220AC	497-4412-5-ND◆	1.59	13.25	111.30	—	—	—	STTH30R06D
	1,000	8A	TO-220AC	497-5162-5-ND◆	1.68	14.00	117.60	—	—	—	STTH810D
	1,000	12A	TO-220AC	497-5148-5-ND◆	1.95	16.25	136.50	—	—	—	STTH1210D
	1,000	30A	TO-220AC	497-5153-5-ND◆	2.67	22.25	186.90	—	—	—	STTH3010D
	1,200	8A	TO-220AC	497-5164-5-ND◆	1.50	12.50	105.00	—	—	—	STTH812D
	1,200	12A	TO-220AC	497-5150-5-ND◆	2.25	18.75	157.50	—	—	—	STTH1212D
	1,200	15A	TO-220AC	497-5151-5-ND◆	2.52	21.00	176.40	—	—	—	STTH1512D
	1,200	30A	TO-220AC	497-5155-5-ND◆	2.82	23.50	197.40	—	—	—	STTH3012D
	1,200	30A	TO-220AC	497-5158-5-ND◆	1.35	11.70	90.00	—	—	—	STTH512D
3A	200	2 x 10A	TO-220AB	497-2693-5-ND◆	1.32	11.44	88.00	—	—	—	BYW51-200
3B	200	8A	TO-220AB	497-3540-5-ND◆	1.31	11.38	87.50	—	—	—	STTH1002CT
	200	10A	TO-220AB	497-3544-5-ND◆	1.61	13.98	107.50	—	—	—	STTH1602CT
	200	15A	TO-220AB	497-3547-5-ND◆	1.71	14.25	119.70	—	—	—	STTH2002CT
	200	15A	TO-220AB	497-3551-5-ND◆	3.81	33.14	246.75	—	—	—	STTH3002CT
	200	20A	TO-220AB	497-3818-5-ND	1.62	13.50	113.40	—	—	—	STTH16L06CT
	300	2 x 10A	TO-220AB	497-2743-5-ND◆	2.22	18.50	155.40	—	—	—	STTH2003CT
	600	40A	TO-220AB	497-3802-5-ND◆	2.91	22.80	203.70	—	—	—	STTH30L06CT
4	200	15A	TO-247	497-3552-5-ND◆	4.16	36.19	269.50	—	—	—	STTH3002CW
	200	30A	TO-247	497-3553-5-ND◆	4.83	42.07	313.25	—	—	—	STTH6002CW
	300	2 x 15A	TO-247	497-2742-5-ND◆	4.16	36.19	269.50	—	—	—	STTH3003CW
	300	2 x 30A	TO-247	497-2720-5-ND◆	5.00	43.48	323.75	—	—	—	STTH6003CW
	300	60A	TO-247	497-4416-5-ND◆	2.40	20.00	168.00	—	—	—	STTH60P03SW
	600	40A	TO-247	497-3797-5-ND◆	2.81	24.44	182.00	—	—	—	STTH30L06CW
	600	80A	TO-247	497-3790-5-ND◆	4.05	35.25	262.50	—	—	—	STTH60L06CW
	600	2 x 15A	TO-247	497-2683-5-ND◆	5.05	43.95	327.25	—	—	—	STTA3006CW
	600	2 x 15A	TO-247	497-5411-5-ND◆	4.32	37.60	280.00	—	—	—	STTH30R06CW
5	200	30A	Isolated DOP3I	497-6087-5-ND◆	3.13	27.26	203.00	—	—	—	STTH3002PI
	400	30A	Isolated DOP3I	497-3806-5-ND◆	2.94	25.62	190.75	—	—	—	BYT30PI-400RG
	600	15A	Isolated DOP3I	497-3240-5-ND◆	5.13	44.65	332.50	—	—	—	STTH1506DPI
	600	30A	Isolated DOP3I	497-3245-5-ND◆	9.20	84.00	664.00	—	—	—	STTH3006DPI
	600	30A	Isolated DOP3I	497-5279-5-ND◆	3.02	26.32	196.00	—	—	—	STTH3006PI
	600	30A	Isolated DOP3I	497-4630-5-ND◆	3.51	30.55	227.50	—	—	—	STTH30L06PI
	1200	15A	Isolated DOP3I	497-6096-5-ND◆	2.85	23.75	199.50	—	—	—	STTH1512PI
6A	200	2 x 30A	ISOTOP	497-3554-5-ND◆	17.76	152.25	1349.95	—	—	—	STTH6102TV1
	200	2 x 60A	ISOTOP	497-3541-5-ND◆	17.59	150.75	1336.65	—	—	—	STTH12002TV1
	200	120A	ISOTOP	497-3819-5-ND	34.91	299.25	2653.35	—	—	—	STTH20002TV1
	300	2 x 80A	ISOTOP	497-5410-5-ND◆	22.75	195.00	1729.00	—	—	—	STTH16003TV1
	400	2 x 60A	ISOTOP	497-5023-5-ND◆	22.75	195.00	1729.00	—	—	—	STTH12004TV1
	400	2 x 120A	ISOTOP	497-6089-5-ND◆	23.28	199.50	1768.90	—	—	—	STTH200L04TV1
	600	40A	ISOTOP	497-3796-5-ND◆	19.95	171.00	1516.20	—	—	—	STTH60L06TV1
	600	2 x 120A	ISOTOP	497-4408-5-ND◆	26.25	225.00	1995.00	—	—	—	STTH200L06TV1
6B	200	2 x 50A	ISOTOP	497-5272-5-ND◆	17.00	157.25	1190.00	—	—	—	STTH10002TV1
	200	100A	ISOTOP	497-2694-5-ND◆	32.73	280.50	2487.10	—	—	—	BYV255V-200
	400	60A	ISOTOP	497-2681-5-ND◆	18.01	154.35	1368.57	—	—	—	BYT261PIV-400
6C	200	2 x 50A	ISOTOP	497-5273-5-ND◆	17.00	157.25	1190.00	—	—	—	STTH10002TV2
	600	2 x 40A	ISOTOP	497-6092-5-ND◆	19.38	179.27	1356.60	—	—	—	STTH60L06TV2
	1,200	2 x 45A	ISOTOP	497-3746-5-ND	29.75	255.00	2261.00	—	—	—	STTA9012TV2
7	200	1A	SMA	497-2500-1-ND◆‡	.42	3.25	23.40	497-2500-2-ND◆	5,000	104.00/M	STTH102A
	200	1.5A	SMA	497-5254-1-ND◆‡	.46	3.50	25.20	497-5254-2-ND◆	5,000	112.00/M	STTH1R02A
	200	2A	SMA	497-5255-1-ND◆‡	.50	4.00	30.00	497-5255-2-ND◆	5,000	140.00/M	STTH2R02A
	600	1A	SMA	497-3241-1-ND◆‡	.68	5.40	40.50	497-3241-2-ND◆	5,000	203.00/M	STTH1L06A
	600	1A	SMA	497-3765-1-ND◆‡	.45	3.60	27.00	497-3765-2-ND◆	5,000	126.00/M	STTH1R06A
	600	2A	SMA	497-3549-1-ND◆‡	.99	7.92	59.40	497-3549-2-ND◆	5,000	297.00/M	STTH2L06A
	600	2A	SMA	497-3777-1-ND◆‡	.81	6.48	48.60	497-3777-2-ND◆	5,000	243.00/M	STTH2R06A
	800	1A	SMA	497-2459-1-ND◆‡	.55	4.40	33.00	497-2459-2-ND◆	5,000	154.00/M	STTH108A
	200	1.5A	SMB	497-6097-1-ND◆‡	.49	3.75	27.00	497-6097-2-ND◆	2,500	128.00/M	STTH1R02U
	200	2A	SMB	497-5256-1-ND◆‡	.63	5.00	37.50	497-5256-2-ND◆	2,500	195.00/M	STTH2R02U
	200	4A	SMB	497-5260-1-ND◆‡	.86	6.84	51.30	497-5260-2-ND◆	2,500	271.00/M	STTH4R02U
	400	1A	SMB	497-3147-1-ND◆‡	.50	4.00	30.00	497-3147-2-ND	2,500	150.00/M	SMBYT01-400
	600	1A	SMB	497-3766-1-ND◆‡	.50	4.00	30.00	497-3766-2-ND◆	2,500	150.00/M	STTH1L06U
	600	1A	SMB	497-4406-1-ND◆‡	.48	3.80	28.50	497-4406-2-ND◆	2,500	143.00/M	STTH1R06U
	600	2A	SMB	497-3757-1-ND◆‡	.65	5.20	35.10	497-3757-2-ND◆	2,500	195.00/M	STTH2L06U
	600	2A	SMB	497-3776-1-ND◆‡	.65	4.68	35.10	497-3776-2-ND◆	2,500	195.00/M	STTH2R06U
	600	3A	SMB	497-3771-1-ND◆‡	.81	6.48	48.60	497-3771-2-ND◆	2,500	257.00/M	STTH3L06U
	600	3A	SMB	497-3767-1-ND◆‡	.86	6.84	51.30	497-3767-2-ND◆	2,500	271.00/M	STTH3R06U

◆ ***RoHS Compliant*** ‡ Cut Tape § Ammo Pack

(Continued)

Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Fast Diodes *(Cont.)*

Fig.	V_{RRM} (V)	I_F	Package Type	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
					1	10	100		Qty.	Pricing	
7	1,200	1A	SMB	497-2460-1-ND◆‡	.73	5.80	43.50	497-2460-2-ND◆	2,500	218.00/M	STTH112U
	1,200	2A	SMB	497-5762-1-ND◆‡	1.16	10.08	77.50	497-5762-2-ND◆	2,500	412.30/M	STTH212U
	200	3A	SMC	497-6085-1-ND◆‡	.55	4.40	33.00	497-6085-2-ND◆	2,500	165.00/M	STTH3R02S
	200	3A	SMC	497-5230-1-ND◆‡	.68	5.40	40.50	497-5230-2-ND◆	2,500	214.00/M	STTH302S
	200	4A	SMC	497-5766-1-ND◆‡	.86	6.84	51.30	497-5766-2-ND◆	2,500	271.00/M	STTH4R02S
	400	3A	SMC	497-3762-1-ND◆‡	.65	4.68	35.10	497-3762-2-ND◆	2,500	195.00/M	SMBYT03-400
	600	2A	SMC	497-4674-1-ND◆‡	.77	6.12	45.90	497-4674-2-ND◆	2,500	242.00/M	STTH2R06S
	600	3A	SMC	497-3764-1-ND◆‡	.95	7.56	56.70	497-3764-2-ND◆	2,500	299.00/M	STTH3L06S
	600	3A	SMC	497-3779-1-ND‡	.86	6.84	51.30	—	—	—	STTH3R06S
	1,200	2A	SMC	497-4754-1-ND◆‡	1.20	10.40	80.00	497-4754-2-ND◆	2,500	426.00/M	STTH212S
8	400	2 x 60A	SOD93	497-3131-5-ND◆	9.89	90.30	713.80	—	—	—	BYT60P-400
	600	20A	SOD93	497-2684-5-ND◆	3.27	28.44	211.75	—	—	—	STTA2006P
	600	30A	SOD93	497-4631-5-ND◆	4.32	37.60	280.00	—	—	—	STTH30R06P
9	200	4A	TO-220FPAC	497-5282-5-ND◆	.94	8.13	62.50	—	—	—	STTH4R02FP
	200	8A	TO-220FPAC	497-5285-5-ND◆	.95	7.56	56.70	—	—	—	STTH802FP
	200	15A	TO-220FPAC	497-5275-5-ND◆	1.50	13.00	100.00	—	—	—	STTH1502FP
	600	5A	TO-220FPAC	497-3747-5-ND◆	1.05	9.10	70.00	—	—	—	STTH5L06FP
	600	5A	TO-220FPAC	497-3249-5-ND◆	1.78	15.44	118.75	—	—	—	STTH5R06FP
	600	8A	TO-220FPAC	497-5414-5-ND◆	2.01	16.75	140.70	—	—	—	STTH8R06FP
	600	12A	TO-220FPAC	497-5407-5-ND◆	2.01	16.75	140.70	—	—	—	STTH12R06FP
	600	15A	TO-220FPAC	497-4404-5-ND◆	1.68	14.00	117.60	—	—	—	STTH15L06FP
	600	15A	TO-220FPAC	497-5409-5-ND◆	2.10	17.50	147.00	—	—	—	STTH15R06FP
	1,500	6A	TO-220FPAC	497-4201-5-ND◆	1.54	13.33	102.50	—	—	—	DTV1500SDFP
10	600	8A	Isolated TO-220AB	497-5413-5-ND◆	3.51	30.55	227.50	—	—	—	STTH806TTI
11	1,000	8A	Isolated TO-220	497-5163-5-ND◆	1.68	14.00	117.60	—	—	—	STTH810DI
	1,000	12A	Isolated TO-220	497-5149-5-ND◆	2.07	17.25	144.90	—	—	—	STTH1210DI
	1,200	8A	Isolated TO-220	497-5165-5-ND◆	1.77	14.75	123.90	—	—	—	STTH812DI
	200	15A	Isolated TO-220AC	497-6086-5-ND◆	2.43	20.25	170.10	—	—	—	STTH1502DI
	200	20A	Isolated TO-220AC	497-5277-5-ND◆	2.22	18.50	155.40	—	—	—	STTH2002DI
	600	5A	Isolated TO-220AC	497-3247-5-ND◆	2.70	23.50	175.00	—	—	—	STTH506DTI
	600	8A	Isolated TO-220AC	497-3250-5-ND◆	3.24	28.20	210.00	—	—	—	STTH806DTI
	600	8A	Isolated TO-220AC	497-4418-5-ND◆	1.35	11.70	90.00	—	—	—	STTH8L06DIRG
	600	8A	Isolated TO-220AC	497-4419-5-ND◆	1.28	11.05	85.00	—	—	—	STTH8R06DIRG
	600	12A	Isolated TO-220AC	497-4403-5-ND◆	1.80	15.00	126.00	—	—	—	STTH12R06DIRG
12A	200	8A	DPAK	497-3536-5-ND◆	1.07	9.26	71.25	—	—	—	STTH1002CB
12B	200	4A	DPAK	497-5258-1-ND◆‡	.86	6.84	51.30	497-5258-2-ND◆	2,500	271.00/M	STTH4R02B-TR
	200	8A	DPAK	497-5262-1-ND◆‡	1.08	8.64	64.80	497-5262-2-ND◆	2,500	342.00/M	STTH802B-TR
	600	3A	DPAK	497-3769-1-ND‡	.81	5.85	45.00	497-3769-2-ND	2,500	257.00/M	STTH3L06B-TR
	600	3A	DPAK	497-5157-5-ND	.99	7.92	59.40	—	—	—	STTH3L06B
	600	5A	DPAK	497-5261-1-ND◆‡	1.50	13.00	100.00	497-5261-2-ND◆	2,500	532.00/M	STTH506B-TR
	600	5A	DPAK	497-3248-1-ND‡	1.73	14.95	115.00	497-3248-2-ND	2,500	612.00/M	STTH5L06B-TR
	600	5A	DPAK	497-5412-1-ND◆‡	1.78	15.44	118.75	497-5412-2-ND◆	2,500	632.00/M	STTH5R06B-TR
	1,200	3A	DPAK	497-5764-1-ND◆‡	1.31	11.38	87.50	497-5764-2-ND◆	2,500	466.00/M	STTH312B-TR
	1,200	5A	DPAK	497-5767-1-ND◆‡	1.43	12.35	95.00	497-5767-2-ND◆	2,500	505.00/M	STTH512B-TR
13A	200	8A	D^{2}PAK	497-3778-1-ND◆‡	.94	8.13	62.50	—	—	—	BYW29G-200-TR
	200	15A	D^{2}PAK	497-3546-5-ND	1.74	14.50	121.80	—	—	—	STTH2002CG
	200	15A	D^{2}PAK	497-3550-5-ND	3.65	31.73	236.25	—	—	—	STTH3002CG
	200	30A	D^{2}PAK	497-3761-1-ND◆‡	1.50	12.50	105.00	497-3761-2-ND	1,000	675.00	STTH2002CG-TR
	200	30A	D^{2}PAK	497-3775-1-ND‡	1.83	15.25	128.10	—	—	—	STTH3002CG-TR
	600	8A	D^{2}PAK	497-3763-1-ND‡	1.35	11.70	90.00	—	—	—	STTH8L06G-TR
	600	20A	D^{2}PAK	497-3817-5-ND	1.68	14.00	117.60	—	—	—	STTH16L06CG
	600	20A	D^{2}PAK	497-3816-5-ND◆	1.80	15.00	126.00	—	—	—	STTH15L06G
	600	30A	D^{2}PAK	497-6090-1-ND◆‡	2.97	25.85	192.50	497-6090-2-ND◆	1,000	1463.00	STTH30L06G-TR
	600	40A	D^{2}PAK	497-3813-5-ND◆	2.75	23.97	178.50	—	—	—	STTH30L06CG
	1200	15A	D^{2}PAK	497-6095-5-ND◆	2.91	24.25	203.70	—	—	—	STTH1512G
13B	200	20A	D^{2}PAK	497-5761-1-ND◆‡	2.22	18.50	155.40	—	—	—	STTH2002G-TR
	200	30A	D^{2}PAK	497-5319-1-ND◆‡	2.85	23.75	199.50	497-5319-2-ND◆	1,000	1282.50	STTH3002G-TR
	300	8A	D^{2}PAK	497-4417-1-ND◆‡	1.43	12.35	95.00	497-4417-2-ND◆	1,000	551.00	STTH803G-TR
	600	8A	D^{2}PAK	497-5263-1-ND◆‡	1.68	14.00	117.60	497-5263-2-ND◆	1,000	756.00	STTH806G-TR
	600	8A	D^{2}PAK	497-5232-1-ND◆‡	1.20	10.40	80.00	497-5232-2-ND◆	1,000	464.00	STTH8R06G-TR
	600	12A	D^{2}PAK	497-5253-1-ND◆‡	1.89	15.75	132.30	497-5253-2-ND◆	1,000	851.00	STTH12R06G-TR
	1,000	12A	D^{2}PAK	497-6093-1-ND◆‡	1.86	15.50	130.20	497-6093-2-ND◆	1,000	837.00	STTH1210G-TR
	1,200	8A	D^{2}PAK	497-5264-1-ND◆‡	1.89	15.75	132.30	497-5264-2-ND◆	1,000	851.00	STTH812G-TR
	1,200	12A	D^{2}PAK	497-6094-1-ND◆‡	2.10	17.50	147.00	497-6094-2-ND◆	1,000	945.00	STTH1212G-TR
14	200	8A	I^{2}PAK	497-3539-5-ND	1.31	11.38	87.50	—	—	—	STTH1002CR
	200	20A	I^{2}PAK	497-3801-5-ND◆	1.09	9.43	72.50	—	—	—	STTH1602CR
	200	30A	I^{2}PAK	497-3774-5-ND	1.95	16.25	136.50	—	—	—	STTH3002CR
15A	200	10A	TO-220FPAB	497-3542-5-ND	1.39	12.03	92.50	—	—	—	STTH1602CFP
	200	15A	TO-220FPAB	497-3545-5-ND◆	1.73	14.95	115.00	—	—	—	STTH2002CFP
	200	8A	TO-220FPAB	497-3537-5-ND	1.07	9.26	71.25	—	—	—	STTH1002CFP
	300	2 x 10A	TO-220FPAB	497-4407-5-ND◆	2.40	20.00	168.00	—	—	—	STTH2003CFP
	600	8A	TO-220FPAB	497-4405-5-ND◆	1.68	14.00	117.60	—	—	—	STTH16L06CFP
15B	600	3A	TO-220FPAB	497-4190-5-ND◆	1.89	15.75	132.30	—	—	—	DMV1500HFD
	600	3A	TO-220FPAB	497-4192-5-ND◆	1.46	12.68	97.50	—	—	—	DMV1500L
	600	3A	TO-220FPAB	497-4194-5-ND◆	1.46	12.68	97.50	—	—	—	DMV1500LFD
	600	3A	TO-220FPAB	497-4196-5-ND◆	1.61	13.98	107.50	—	—	—	DMV1500MFD
	600	6A	TO-220FPAB	497-4198-5-ND◆	1.65	14.30	110.00	—	—	—	DMV1500SDFD

◆ ***RoHS Compliant*** ‡ Cut Tape § Ammo Pack

(Continued)

Fast Diodes *(Cont.)*

Fig.	VRRM (V)	IF	Package Type	Digi-Key Part No.	Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	STMicroelectronics Part No.
16A	200	2 x 15A	Isolated TOP3	497-5278-5-ND◆	3.40	29.61	220.50	—	—	—	STTH3002CPI
	200	2 x 30A	Isolated TOP3	497-5283-5-ND◆	6.08	52.88	393.75	—	—	—	STTH6002CPI
	200	30A	Isolated TOP3	497-3807-5-ND◆	6.10	55.65	439.90	—	—	—	BYV52PI-200RG
16B	600	30A	Isolated TOP3	497-4410-5-ND◆	5.75	52.50	415.00	—	—	—	STTH3006TPI
17	400	60A	DO-247	497-5159-5-ND◆	3.48	30.32	225.75	—	—	—	STTH6004W
	600	20A	DO-247	497-6082-5-ND◆	2.88	24.00	201.60	—	—	—	STTH2006W
	600	30A	DO-247	497-5280-5-ND◆	3.40	29.61	220.50	—	—	—	STTH3006W
	600	30A	DO-247	497-4411-5-ND◆	2.52	21.00	176.40	—	—	—	STTH30L06W
	600	30A	DO-247	497-4413-5-ND◆	1.65	13.75	115.50	—	—	—	STTH30R06W
	600	60A	DO-247	497-3799-5-ND◆	4.16	36.19	269.50	—	—	—	STTH60L06W
	1,000	30A	DO-247	497-5154-5-ND◆	2.76	23.00	193.20	—	—	—	STTH3010W
	1,000	60A	DO-247	497-5160-5-ND◆	4.05	35.25	262.50	—	—	—	STTH6010W
	1,200	15A	DO-247	497-5152-5-ND◆	2.55	21.25	178.50	—	—	—	STTH1512W
	1,200	30A	DO-247	497-5156-5-ND◆	2.97	25.85	192.50	—	—	—	STTH3012W
	1,200	60A	DO-247	497-5161-5-ND◆	4.05	35.25	262.50	—	—	—	STTH6012W
18	600	3A	TO-220FPAB F5	497-4193-5-ND◆	1.46	12.68	97.50	—	—	—	DMV1500LF5
	600	3A	TO-220FPAB F5	497-4197-5-ND◆	1.65	14.30	110.00	—	—	—	DMV1500MFD5
19	600	6A	TO-220FPAB FD6	497-4199-5-ND◆	1.65	14.30	110.00	—	—	—	DMV1500SDFD6

◆ ***RoHS Compliant*** ‡ Cut Tape § Ammo Pack

SCRs

Fig.	VDRM (V)	IT(RMS) (A)	IGT	Package	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	STMicroelectronics Part No.
1	200	.25	200µA	SOT-23	497-2527-1-ND◆‡	.86	.69	.52	497-2527-2-ND◆	3,000	271.00/M	P0102BL 5AA4
2	400	0.8	200mA	SOT-223	497-2523-1-ND◆‡	.72	.58	.44	497-2523-2-ND◆	1,000	248.00	P0102DN 5AA4
	600	0.8	200mA	SOT-223	497-4649-1-ND◆‡	.86	.69	.52	497-4649-2-ND◆	1,000	295.00	P0102MN 5AA4
	600	0.8	200mA	SOT-223	497-5775-1-ND◆‡	.74	.60	.45	497-5775-2-ND◆	1,000	256.00	X00602MN5BA4
	600	1.25	200mA	SOT-223	497-2532-1-ND◆‡	.90	.72	.54	497-2532-2-ND◆	1,000	310.00	X0202MN 5BA4
3A	200	8	15mA	TO-220AB	497-4483-5-ND◆	1.46	1.27	.98	—	—	—	TYN208RG
	200	25	40mA	TO-220AB	497-3279-5-ND	1.31	1.14	.88	—	—	—	TYN225RG
	400	8	25mA	TO-220AB	497-4484-5-ND◆	1.46	1.27	.98	—	—	—	TYN408GRG
	600	6	15mA	TO-220AB	497-4485-5-ND◆	1.13	.98	.75	—	—	—	TYN606RG
	600	8	200mA	TO-220AB	497-2551-5-ND◆	1.43	1.24	.95	—	—	—	TS820-600T
	600	40	35mA	TO-220AB	497-2422-5-ND◆	2.55	2.13	1.79	—	—	—	TYN640RG
	800	4	15mA	TO-220AB	497-4488-5-ND◆	1.46	1.27	.98	—	—	—	TYN804RG
	800	10	15mA	TO-220AB	497-4489-5-ND◆	1.46	1.27	.98	—	—	—	TYN810RG
	800	12	15mA	TO-220AB	497-4490-5-ND◆	1.46	1.27	.98	—	—	—	TYN812RG
	800	16	25mA	TO-220AB	497-4491-5-ND◆	1.50	1.30	1.00	—	—	—	TYN816RG
	800	25	40mA	TO-220AB	497-3793-5-ND◆	2.81	2.45	1.82	—	—	—	TYN825RG
	800	40	35mA	TO-220AB	497-3792-5-ND◆	3.78	3.29	2.45	—	—	—	TYN840RG
	1000	6	15mA	TO-220AB	497-4481-5-ND◆	1.31	1.14	.88	—	—	—	TYN1006RG
	1000	8	15mA	TO-220AB	497-4482-5-ND◆	1.43	1.24	.95	—	—	—	TYN1008RG
3B	600	12	5mA	TO-220AB	497-4487-5-ND◆	1.46	1.27	.98	—	—	—	TYN612MRG
4	400	0.8	1mA	TO-92	497-3713-1-ND◆‡	.81	.65	.49	497-3713-2-ND◆	2,000	279.00/M	P0115DA 5AL3
	400	0.8	5mA	TO-92	497-6200-1-ND◆‡	.60	.48	.36	497-6200-2-ND◆	2,000	192.00/M	P0118DA 5AL3
	400	0.8	200mA	TO-92	497-6199-1-ND◆‡	.60	.48	.36	497-6199-2-ND◆	2,000	192.00/M	P0102DA 5AL3
	600	0.8	200mA	TO-92	497-3321-1-ND‡	.68	.54	.41	497-3321-2-ND	2,000	213.75/M	X00602MA 5AL2
	600	0.8	200mA	TO-92	497-4504-1-ND◆‡	.52	.40	.29	497-4504-3-ND◆§	2,000	144.00/M	X00602MA 2AL2
	600	0.8	200mA	TO-92	497-4281-ND◆	.46	.35	.26	—	—	—	P0102MA1AA3
	600	0.8	25mA	TO-92	497-4282-1-ND◆‡	.46	.35	.26	497-4282-3-ND◆§	2,000	126.00/M	P0111MA2AL3
	600	0.8	25mA	TO-92	497-4618-ND◆	.42	.33	.24	—	—	—	P0111MA 1AA3
	600	0.8	5mA	TO-92	497-4283-1-ND◆‡	.46	.35	.26	497-4283-2-ND◆	2,000	126.00/M	P0118MA 5AL3
	600	1.25	200mA	TO-92	497-2421-ND	.65	.52	.39	—	—	—	X020MA 1BA2
5	200	30	50mA	TOP3	497-4185-5-ND◆	5.81	5.06	3.77	—	—	—	BTW68-200RG
	200	50	80mA	TOP3	497-4186-5-ND◆	5.51	4.80	3.57	—	—	—	BTW69-200RG
	600	30	50mA	TOP3	497-3804-5-ND◆	6.59	5.74	4.27	—	—	—	BTW68-600RG
	800	30	80mA	TOP3	497-3805-5-ND◆	6.70	5.83	4.34	—	—	—	BTW68-800RG
	1000	30	50mA	TOP3	497-4184-5-ND◆	5.81	5.06	3.77	—	—	—	BTW68-1000RG
6	600	4	200mA	DPAK	497-3276-1-ND‡	1.39	1.21	.93	497-3276-2-ND	2,500	492.10/M	TS420-600B-TR
	600	8	.2mA	DPAK	497-5234-1-ND◆‡	1.09	.95	.73	497-5234-2-ND◆	2,500	385.70/M	TS820-600B-TR
	600	15	15mA	DPAK	497-5171-1-ND◆‡	1.09	.95	.73	497-5171-2-ND◆	2,500	385.70/M	TN1515-600B-TR
	800	8	2mA	DPAK	497-6159-1-ND◆‡	1.54	1.34	1.03	497-6159-2-ND◆	2,500	545.00/M	TN815-800B-TR
7	800	25	40mA	D2PAK	497-6158-1-ND◆‡	2.70	2.25	1.89	497-6158-2-ND◆	1,000	1215.00	TN2540-800G-TR
	1000	16	25mA	D2PAK	497-3740-1-ND◆‡	1.95	1.63	1.37	497-3740-2-ND◆	1,000	878.00	TN1625-1000G-TR
8	600	4	200mA	T0202-3	497-3322-ND◆	1.13	.98	.75	—	—	—	X0402MF 1AA2
	600	4	200mA	T0202-3	497-3322-5-ND◆	.68	.54	.41	—	—	—	X0402MF 0AA2
9	800	20	25mA	TO-220	497-3562-5-ND	2.31	1.93	1.62	—	—	—	TXN692RG
10	400	8	25mA	TO-220AB	497-4480-5-ND◆	1.58	1.37	1.05	—	—	—	TXN408GRG
	600	12	15mA	TO-220AB	497-3561-5-ND	1.65	1.38	1.16	—	—	—	TXN612RG
	1000	12	15mA	TO-220AB	497-4479-5-ND◆	2.25	1.88	1.58	—	—	—	TXN1012RG
11	600	12	5mA	TO-220FPAB	497-4486-5-ND◆	1.13	.98	.75	—	—	—	TYN612MFP
12	800	4	200mA	T0202-1	497-4506-ND◆	.72	.58	.44	—	—	—	X0402NE 1AA2
13	1200	70	50mA	ISOTOP	497-6021-5-ND◆	20.48	17.55	15.57	—	—	—	MSS50-1200

◆ ***RoHS Compliant*** ‡ Cut Tape § Ammo Pack

Fig. 1 — SOT-23

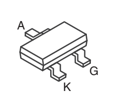

Fig. 2 — SOT-223

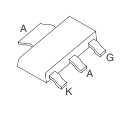

Fig. 3 — TO-220AB

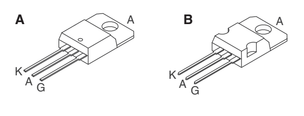

Fig. 4 — TO-92

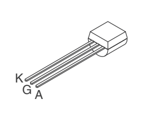

Fig. 5 — TOP3

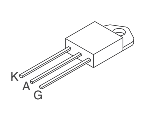

Fig. 6 — DPAK

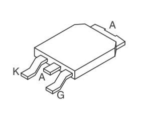

Fig. 7 — D²PAK

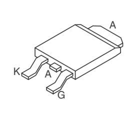

Fig. 8 — TO202-3

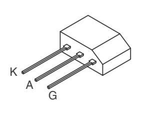

Fig. 9 — TO-220

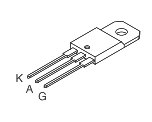

Fig. 10 — TO-220AB Insulated

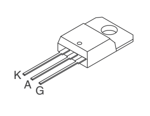

Fig. 11 — TO-220FPAB

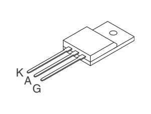

Fig. 12 — TO202-1

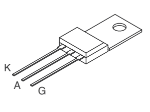

Fig. 13 — ISOTOP®

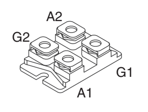

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Triacs

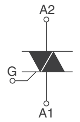

Fig. 1 — TO-220AB

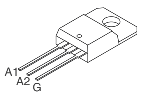

Fig. 2 — TO220AB Non-Insulated

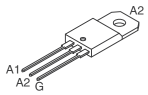

Fig. 3 — TOP3

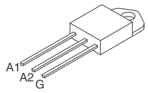

Fig. 4 — TOP3 Non-Insulated

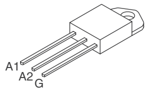

Fig. 5 — RD-91

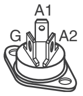

Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{GT} (mA)	Package	Insulation	Digi-Key Part No.	Bulk Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	STMicroelectronics Part No.
1	400	6	10	TO-220AB	Insulated	497-3382-5-ND◆‡	1.31	1.14	.88	—	—	—	BTA06-400ARG
	400	6	50	TO-220AB	Insulated	497-2390-5-ND◆‡	1.50	1.30	1.00	—	—	—	BTA06-400BRG
	400	6	25	TO-220AB	Insulated	497-3383-5-ND◆‡	1.50	1.30	1.00	—	—	—	BTA06-400CRG
	600	6	10	TO-220AB	Insulated	497-3384-5-ND‡	1.31	1.14	.88	—	—	—	BTA06-600ARG
	600	6	35	TO-220AB	Insulated	497-3385-5-ND◆‡	1.54	1.34	1.03	—	—	—	BTA06-600CWRG
	600	6	10	TO-220AB	Insulated	497-3118-5-ND◆‡	1.61	1.40	1.08	—	—	—	BTA06-600SWRG
	600	6	5	TO-220AB	Insulated	497-3119-5-ND‡	1.54	1.34	1.03	—	—	—	BTA06-600TRG
	600	6	5	TO-220AB	Insulated	497-3386-5-ND◆‡	1.43	1.24	.95	—	—	—	BTA06-600TWRG
	600	8	5	TO-220AB	Insulated	497-3387-5-ND◆‡	1.73	1.50	1.15	—	—	—	BTA08-600TWRG
	600	8	5	TO-220AB	Insulated	497-3748-5-ND◆‡	1.73	1.50	1.15	—	—	—	BTA08-600CWRG
	600	12	50	TO-220AB	Insulated	497-3121-5-ND◆‡	1.56	1.30	1.10	—	—	—	BTA12-600BWRG
	600	16	50	TO-220AB	Insulated	497-3122-5-ND◆‡	1.80	1.50	1.26	—	—	—	BTA16-600BWRG
	600	16	35	TO-220AB	Insulated	497-2415-5-ND‡	2.25	1.95	1.50	—	—	—	BTA16-600CWRG
	600	16	25	TO-220AB	Insulated	497-3388-5-ND◆‡	1.80	1.50	1.26	—	—	—	BTA16-600CRG
	600	16	10	TO-220AB	Insulated	497-3389-5-ND◆‡	1.80	1.50	1.26	—	—	—	BTA16-600SWRG
	600	20	35	TO-220AB	Insulated	497-3390-5-ND◆‡	1.98	1.65	1.39	—	—	—	BTA20-600CWRG
	600	25	50	TO-220AB	Insulated	497-3123-5-ND◆‡	2.25	1.88	1.58	—	—	—	BTA24-600BWRG
	600	25	35	TO-220AB	Insulated	497-3124-5-ND◆‡	2.70	2.25	1.89	—	—	—	BTA24-600CWRG
	700	4	10	TO-220AB	Insulated	497-4152-5-ND◆‡	1.58	1.37	1.05	—	—	—	BTA04-700SRG
	700	4	5	TO-220AB	Insulated	497-4153-5-ND◆‡	1.05	.91	.70	—	—	—	BTA04-700TRG
	700	8	50	TO-220AB	Insulated	497-4155-5-ND◆‡	1.58	1.37	1.05	—	—	—	BTA08-700BRG
	700	8	25	TO-220AB	Insulated	497-4156-5-ND◆‡	1.58	1.37	1.05	—	—	—	BTA08-700CRG
	700	8	5	TO-220AB	Insulated	497-4157-5-ND◆‡	1.61	1.40	1.08	—	—	—	BTA08-700TWRG
	700	10	50	TO-220AB	Insulated	497-4158-5-ND◆‡	1.69	1.47	1.13	—	—	—	BTA10-700BRG
	700	10	35	TO-220AB	Insulated	497-4159-5-ND◆‡	1.69	1.47	1.13	—	—	—	BTA10-700CWRG
	700	12	50	TO-220AB	Insulated	497-4161-5-ND◆‡	1.69	1.47	1.13	—	—	—	BTA12-700BRG
	700	16	50	TO-220AB	Insulated	497-4163-5-ND◆‡	1.80	1.56	1.20	—	—	—	BTA16-700BRG
	700	16	50	TO-220AB	Insulated	497-4164-5-ND◆‡	1.80	1.56	1.20	—	—	—	BTA16-700BWRG
	700	16	35	TO-220AB	Insulated	497-4165-5-ND◆‡	1.80	1.56	1.20	—	—	—	BTA16-700CWRG
	700	20	50	TO-220AB	Insulated	497-4167-5-ND◆‡	1.62	1.35	1.14	—	—	—	BTA20-700BWRG
	700	20	35	TO-220AB	Insulated	497-4168-5-ND◆‡	1.62	1.35	1.14	—	—	—	BTA20-700CWRG
	800	6	25	TO-220AB	Insulated	497-4154-5-ND◆‡	1.80	1.56	1.20	—	—	—	BTA06-800CRG
	800	10	35	TO-220AB	Insulated	497-4160-5-ND◆‡	1.62	1.35	1.14	—	—	—	BTA10-800CWRG
	800	12	50	TO-220AB	Insulated	497-4162-5-ND◆‡	1.73	1.50	1.15	—	—	—	BTA12-800BWRG
	800	16	35	TO-220AB	Insulated	497-4166-5-ND◆‡	1.62	1.35	1.14	—	—	—	BTA16-800CWRG
	800	25	35	TO-220AB	Insulated	497-4169-5-ND◆‡	2.25	1.88	1.58	—	—	—	BTA24-800CWRG
2	600	4	5	TO-220AB	Non-Insulated	497-4174-5-ND◆‡	1.05	.91	.70	—	—	—	BTB04-600TRG
	600	6	50	TO-220AB	Non-Insulated	497-3391-5-ND‡	1.43	1.24	.95	—	—	—	BTB06-600BWRG
	600	6	35	TO-220AB	Non-Insulated	497-3392-5-ND‡	1.43	1.24	.95	—	—	—	BTB06-600CWRG
	600	6	10	TO-220AB	Non-Insulated	497-4175-5-ND◆‡	1.05	.91	.70	—	—	—	BTB06-600SWRG
	600	6	5	TO-220AB	Non-Insulated	497-3127-5-ND‡	1.13	.98	.75	—	—	—	BTB06-600TRG
	600	10	50	TO-220AB	Non-Insulated	497-3393-5-ND‡	1.61	1.40	1.08	—	—	—	BTB10-600BRG
	600	10	25	TO-220AB	Non-Insulated	497-3394-5-ND‡	1.61	1.40	1.08	—	—	—	BTB10-600CRG
	600	12	50	TO-220AB	Non-Insulated	497-2655-5-ND◆‡	1.46	1.27	.98	—	—	—	BTB12-600BWRG
	600	12	25	TO-220AB	Non-Insulated	497-3395-5-ND‡	1.76	1.53	1.18	—	—	—	BTB12-600CRG
	600	12	10	TO-220AB	Non-Insulated	497-3396-5-ND◆‡	1.76	1.53	1.18	—	—	—	BTB12-600SWRG
	600	16	50	TO-220AB	Non-Insulated	497-2437-5-ND‡	1.80	1.56	1.20	—	—	—	BTB16-600BRG
	600	16	25	TO-220AB	Non-Insulated	497-3397-5-ND◆‡	1.65	1.38	1.16	—	—	—	BTB16-600CRG
	600	16	35	TO-220AB	Non-Insulated	497-6208-5-ND◆‡	1.83	1.53	1.29	—	—	—	T1635H-600TRG
	600	20	35	TO-220AB	Non-Insulated	497-6209-5-ND◆‡	1.83	1.53	1.29	—	—	—	T2035H-600TRG
	700	8	50	TO-220AB	Non-Insulated	497-4176-5-ND◆‡	1.31	1.14	.88	—	—	—	BTB08-700BRG
	700	12	10	TO-220AB	Non-Insulated	497-4179-5-ND◆‡	1.50	1.30	1.00	—	—	—	BTB12-700SWRG
	800	10	50	TO-220AB	Non-Insulated	497-4177-5-ND◆‡	1.39	1.21	.93	—	—	—	BTB10-800BWRG
	800	10	35	TO-220AB	Non-Insulated	497-4178-5-ND◆‡	1.39	1.21	.93	—	—	—	BTB10-800CWRG
	800	12	35	TO-220AB	Non-Insulated	497-4180-5-ND◆‡	1.58	1.37	1.05	—	—	—	BTB12-800CWRG
	800	16	50	TO-220AB	Non-Insulated	497-4181-5-ND◆‡	1.73	1.50	1.15	—	—	—	BTB16-800BRG
	800	16	35	TO-220AB	Non-Insulated	497-4182-5-ND◆‡	1.61	1.40	1.08	—	—	—	BTB16-800CWRG
	800	25	50	TO-220AB	Non-Insulated	497-4183-5-ND◆‡	1.92	1.60	1.35	—	—	—	BTB24-800BWRG
3	600	25	50	TOP3	Insulated	497-3126-ND	7.82	7.14	5.65	—	—	—	BTA26-600BW
	600	25	50	TOP3	Insulated	497-4170-5-ND◆‡	4.05	3.53	2.63	—	—	—	BTA26-600BWRG
	800	25	50	TOP3	Insulated	497-4171-5-ND◆‡	4.05	3.53	2.63	—	—	—	BTA26-800BRG

◆ ***RoHS Compliant*** * Cut Tape ‡ Tube § Ammo Pack

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Triacs *(Cont.)*

Fig. 6 — D²PAK

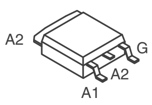

Fig. 7 — DPAK

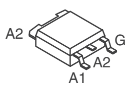

Fig. 8 — IPAK

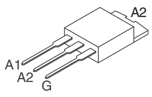

Fig. 9 — TO-92

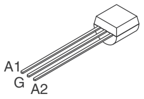

Fig. 10 — TO202-3

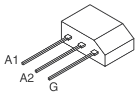

Fig. 11 — ISOWATT220AB

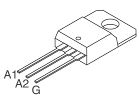

Fig. 12 — SOT-223

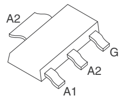

Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{GT} (mA)	Package	Insulation	Digi-Key Part No.	Bulk Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	STMicroelectronics Part No.
3	800	25	50	TOP3	Insulated	497-4172-5-ND◆‡	4.05	3.53	2.63	—	—	—	BTA26-800BWRG
	800	25	35	TOP3	Insulated	497-4173-5-ND◆‡	4.05	3.53	2.63	—	—	—	BTA26-800CWRG
4	600	25	50	TOP3	Non-Insulated	497-3398-5-ND‡	4.05	3.53	2.63	—	—	—	BTB26-600BRG
5	600	25	50	RD-91	Insulated	497-2414-5-ND◆‡	5.75	5.25	4.15	—	—	—	BTA25-600B
	600	25	50	RD-91	Insulated	497-3125-5-ND ‡	5.75	5.25	4.15	—	—	—	BTA25-600BW
	600	40	50	RD-91	Insulated	497-2417-5-ND◆‡	7.59	6.93	5.48	—	—	—	BTA40-600B
	800	40	50	RD-91	Insulated	497-2405-5-ND◆‡	7.68	7.02	5.55	—	—	—	BTA40-800B
6	600	8	35	D²PAK	—	497-2507-1-ND◆*	1.58	1.37	1.05	497-2507-2-ND◆	1,000	609.00	T835-600G-TR
	600	16	35	D²PAK	—	497-2557-5-ND◆‡	2.25	1.88	1.58	—	—	—	T1635-600G
	600	16	50	D²PAK	—	497-3739-1-ND*	2.34	1.95	1.64	497-3739-2-ND	1,000	1053.00	T1650-600G-TR
	700	16	35	D²PAK	—	497-4433-1-ND◆*	1.65	1.43	1.10	497-4433-2-ND◆	1,000	638.00	T1635-700G-TR
	800	8	10	D²PAK	—	497-4438-1-ND◆*	1.58	1.37	1.05	497-4438-2-ND◆	1,000	609.00	T810-800G-TR
7	600	4	5	DPAK	—	497-2505-1-ND*	1.28	1.11	.85	497-2505-2-ND	2,500	452.00/M	T405-600B-TR
	600	4	5	DPAK	—	497-2501-1-ND*	.98	.85	.65	497-2501-2-ND	2,500	346.00/M	T405Q-600B-TR
	600	4	10	DPAK	—	497-3269-1-ND◆*	1.24	1.08	.83	497-3269-2-ND◆	2,500	439.00/M	T410-600B-TR
	600	4	35	DPAK	—	497-2513-1-ND◆*	1.08	.87	.65	497-2513-2-ND◆	2,500	342.00/M	T435-600B-TR
	600	4	35	DPAK	—	497-3798-5-ND◆‡	1.01	.88	.68	—	—	—	T435-600B
	600	8	35	DPAK	—	497-3270-1-ND◆*	1.58	1.37	1.05	497-3270-2-ND◆	2,500	559.00/M	T835-600B-TR
	700	4	5	DPAK	—	497-5265-1-ND◆*	1.05	.91	.70	497-5265-2-ND◆	2,500	372.00/M	T405-700B-TR
	700	4	35	DPAK	—	497-5266-1-ND◆*	1.05	.91	.70	497-5266-2-ND◆	2,500	372.00/M	T435-700B-TR
	800	4	5	DPAK	—	497-4434-1-ND*	1.05	.91	.70	497-4434-2-ND	2,500	372.00/M	T405-800B-TR
	800	4	35	DPAK	—	497-5267-1-ND◆*	1.09	.95	.73	497-5267-2-ND◆	2,500	386.00/M	T435-800B-TR
8	600	4	5	IPAK	—	497-2556-5-ND◆‡	1.04	.83	.63	—	—	—	T405Q-600H
	600	4	35	IPAK	—	497-3795-5-ND◆‡	1.09	.95	.73	—	—	—	T435-600H
	700	4	10	IPAK	—	497-4435-5-ND‡	.98	.85	.65	—	—	—	T410-700H
	700	4	35	IPAK	—	497-4436-5-ND◆‡	1.05	.91	.70	—	—	—	T435-700H
9	600	0.8	5	TO-92	—	497-4681-1-ND◆*	.60	.48	.36	497-4681-2-ND◆	2,000	192.00/M	Z00607MA 5BL2
	600	1	3	TO-92	—	497-4682-1-ND◆*	.60	.48	.36	497-4682-2-ND◆	2,000	192.00/M	Z0103MA 5AL2
	600	1	3	TO-92	—	497-3323-1-ND◆*	.68	.54	.41	497-3323-3-ND◆§	2,000	233.00/M	Z0103MA 2AL2
	600	1	3	TO-92	—	497-3323-ND◆	.65	.52	.39	—	—	—	Z0103MA 1AA2
	600	1	5	TO-92	—	497-3822-ND◆	.90	.72	.54	—	—	—	Z0107MA 1AA2
	600	1	10	TO-92	—	497-2416-ND◆	.81	.65	.49	—	—	—	Z0109MA 1AA2
	800	1	3	TO-92	—	497-4507-1-ND◆*	.72	.58	.44	497-4507-2-ND◆	2,000	248.00/M	Z0103NA 5AL2
10	600	4	3	TO202-3	—	497-3324-ND◆	.97	.78	.59	—	—	—	Z0402MF 1AA2
	800	4	25	TO202-3	—	497-6210-ND◆	.98	.85	.65	—	—	—	Z0410NF 1AA2
11	800	6	30	ISOWATT 220AB	—	497-4437-5-ND◆‡	1.73	1.50	1.15	—	—	—	T630-800W
	800	8	20	ISOWATT 220AB	—	497-4805-5-ND◆‡	1.65	1.43	1.10	—	—	—	T820-800W
12	800	1	5	SOT-223	—	497-4508-1-ND◆*	.72	.58	.44	497-4508-2-ND◆	1,000	248.00	Z0107NN 5AA4
	800	1	10	SOT-223	—	497-4509-1-ND◆*	.72	.58	.44	497-4509-2-ND◆	1,000	248.00	Z0109NN 5AA4

◆ ***RoHS Compliant*** * Cut Tape ‡ Tube § Ammo Pack

Alternistors

Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{GT} (mA)	Package	Insulation	Digi-Key Part No.	Tube Price Each 1	10	100	STMicroelectronics Part No.
3	600	40	200	TOP 3	Insulated	497-4441-5-ND	7.36	6.72	5.32	TPDV640RG
	800	40	200	TOP 3	Insulated	497-4442-5-ND	8.28	7.56	5.98	TPDV840RG
	1200	25	150	TOP 3	Insulated	497-3791-5-ND	7.48	6.83	5.40	TPDV1225RG
	1200	40	200	TOP 3	Insulated	497-3794-5-ND	8.51	7.77	6.15	TPDV1240RG

Diacs

Fig. 1 — SOT-23

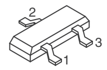

Pin 1 and 3 must be shorted together

Fig. 2 — MINIMELF

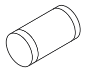

Fig. 3 — DO-35

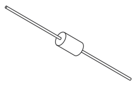

Fig.	$V_{(BO)}$ (V) Min.	Max.	$V_{(BO)}$ Symmetry (V) Max.	Dynamic Breakback Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel† Qty.	Pricing	STMicroelectronics Part No.
1	28	36	±3	10	497-3148-1-ND	.57	4.56	34.20	3,000	171.00/M	SMDB3
2	28	36	±3	5	497-3275-1-ND	.55	4.40	33.00	2,500	165.00/M	TMMDB3
3	30	34	±2	9	497-3134-1-ND	.45	3.60	27.00	5,000	126.00/M	DB3TG
3	28	36	3	5	497-3099-1-ND	.41	3.00	21.12	5,000	82.00/M	DB3

† For Tape and Reel part number, change 1-ND to 2-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MOSFETs

Fig. 1 — TO-92

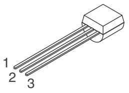

A.
1. Source
2. Gate
3. Drain

B.
1. Drain
2. Gate
3. Source

C.
1. Drain
2. Source
3. Gate

D.
1. Source
2. Drain
3. Gate

Fig. 2 — TO-220AB, TO-220

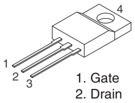

1. Gate
2. Drain
3. Source
4. Drain

Fig. 3 — TO-251A

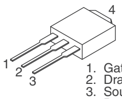

1. Gate
2. Drain
3. Source
4. Drain

Fig. 4 — 8-SOIC

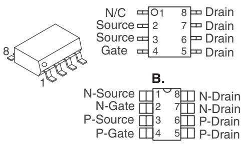

Fig. 5 — SOT-23

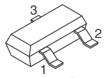

A.
1. Gate
2. Source
3. Drain

B.
1. Drain
2. Source
3. Gate

Fig. 6 — SOT-223

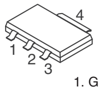

1. Gate
2. Drain
3. Source
4. Drain

Fig. 7 — SOT-323, SOT-416

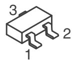

1. Gate
2. Source
3. Drain

Fig. 8 — SC-89

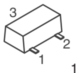

1. Gate
2. Source
3. Drain

Fig. 9 — TSOP-6

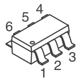

1. Drain
2. Drain
3. Gate
4. Source
5. Drain
6. Drain

Fig. 10 — DPAK

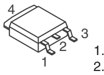

1. Gate
2. Drain
3. Source
4. Drain

Fig. 11 — ChipFET

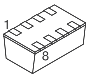

A.	B.	C.
1. D	1. S1	1. A
2. D	2. G1	2. A
3. D	3. S2	3. S
4. G	4. G2	4. G
5. S	5. D2	5. D
6. D	6. D2	6. D
7. D	7. D1	7. C
8. D	8. D1	8. C

Fig. 12 — SOT-363

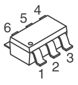

A.	B.
1. D	1. S1
2. D	2. G1
3. G	3. D2
4. S	4. S2
5. D	5. G2
6. D	6. D1

Fig. 13 — SOT-563

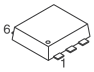

A.	B.
1. S1	1. D
2. G1	2. D
3. D2	3. G
4. S2	4. S
5. G2	5. D
6. D1	6. D

Fig.	V_{DS} (V)	R_{DS} (on) (Ω)	I_D (A)	I_{DM} (A)	P_D (W)	Digi-Key Part No.	Pricing			Tape and Reel§	
							10	100	250	Qty.	Pricing
						N-Channel					
						TO-92 — RoHS Compliant					
1A	60	5	.2	.5	.350	2N7000RLRAGOSCT-ND	3.25	22.88	41.60	2,000	104.00/M
	60	5	.2	.5	.350	2N7000GOS-ND	3.25	22.88	41.60	—	—
	60	7.5	.15	1	.400	VN2222LLGOS-ND	4.80	36.00	72.00	—	—
1B	60	5	0.5	—	.350	BS170RLRAGOSCT-ND	3.75	27.00	50.63	2,000	135.00/M
	60	5	0.5	—	.350	BS170GOS-ND	3.75	27.00	50.63	—	—
	200	6.4	.25	.500	.350	BS107AGOS-ND	4.00	28.80	54.00	—	—
	200	6.4	.25	.5	.350	BS107ARL1GOSCT-ND	4.00	28.80	54.00	2,000	144.00/M
						TO-220AB					
2	100	.022	10	35	40	MTP10N10ELGOS-ND◆	14.63	112.50	236.25	—	—
						TO-251A					
3	24	.0037	110	—	92.5	NTD110N02R-001OS-ND	12.03	92.50	194.25	—	—
						SOT-23 — RoHS Compliant					
5A	20	.08	3.2	10	1.25	NTR4501NT1GOSCT-ND	3.05	21.92	41.11	3,000	104.00/M
	20	1	.300	0.75	.225	MMBF0201NLT1GOSCT-ND	3.44	24.77	46.44	3,000	117.00/M
	20	.090	.750	2	.400	MGSF1N02LT1GOSCT-ND	3.92	29.40	58.80	3,000	147.00/M
	20	.085	2.8	5	1.25	MGSF2N02ELT1GOSCT-ND	3.80	28.50	57.00	3,000	143.00/M
	30	.14	2.0	6	.73	NTR4503NT1GOSCT-ND	3.50	25.20	47.25	3,000	119.00/M
	30	.100	2.1	2	.400	MGSF1N03LT1GOSCT-ND	4.00	30.00	60.00	3,000	150.00/M
	50	3.5	.200	0.8	.225	BSS138LT1GOSCT-ND	2.48	16.12	27.90	3,000	58.00/M
	60	5	0.5	0.8	.225	MMBF170LT1GOSCT-ND	2.90	18.85	32.63	3,000	68.00/M
	60	7.5	.115	0.8	.225	2N7002LT1GOSCT-ND	1.55	10.08	17.44	3,000	36.00/M
	100	6	0.17	0.68	.225	BSS123LT1GOSCT-ND	2.45	15.93	27.56	3,000	58.00/M
						SOT-223 — RoHS Compliant					
6	42	.2	2	—	1.1	NIF5002NT1GOSCT-ND	7.92	59.40	126.50	1,000	341.00
	60	.100	3	9	2.1	NTF3055-100T1GOSCT-ND	5.27	39.51	79.02	1,000	211.00
	60	.120	3	9	2.1	NTF3055L108T1GOSCT-ND	5.46	40.92	81.84	1,000	218.00
	60	1.7	0.3	—	0.8	MMFT960T1GOSCT-ND	6.16	46.17	98.33	1,000	265.00
						SOT-323 — RoHS Compliant					
7	20	1	.300	.750	.150	MMBF2201NT1GOSCT-ND	3.13	22.50	42.19	3,000	106.00/M
	30	1.5	.27	.20	.33	NTS4001NT1GOSCT-ND	2.85	19.76	35.63	3,000	76.00/M
						SOT-416 — RoHS Compliant					
7	20	1.5	.238	.714	.30	NTA4001NT1GOSCT-ND	3.44	24.20	44.00	3,000	99.00/M
	20	.23	.915	1.3	.30	NTA4153NT1GOSCT-ND	3.25	23.40	43.88	3,000	111.00/M
	30	7.5	.154	—	.30	NTA7002NT1GOSCT-ND	2.25	15.60	28.13	3,000	60.00/M
						SC-89 — RoHS Compliant					
8	20	.23	.915	1.3	.30	NTE4153NT1GOSCT-ND	3.63	25.52	46.40	3,000	104.00/M
						TSOP-6 — RoHS Compliant					
9	20	.045	2.5	10	.5	NTGS3446T1OSCT-ND	5.20	39.00	78.00	3,000	195.00/M
	20	.045	2.5	10	.5	NTGS3446T1GOSCT-ND	3.60	27.00	54.00	3,000	135.00/M
						DPAK					
10	30	27	20	60	1.75	NTD20N03L27T4GOSCT-ND◆	8.45	65.00	136.50	2,500	346.00/M
	24	.005	80	200	75	NTD80N02T4OSCT-ND	7.92	59.40	126.50	2,500	292.00/M
	24	.0037	110	—	92.5	NTD110N02RT4GOSCT-ND◆	10.73	82.50	173.25	2,500	439.00/M
	25	.032	23	40	22.3	NTD23N03RT4OSCT-ND	6.03	45.23	96.31	2,500	195.00/M
	60	.094	12	45	48	NTD3055-094T4GOSCT-ND◆	5.48	41.07	87.46	2,500	217.00/M
	60	.104	12	45	48	NTD3055L104T4GOSCT-ND◆	5.74	43.05	86.10	2,500	215.00/M
	200	.460	6	18	50	MTD6N20ET4GOSCT-ND◆	14.63	112.50	236.25	2,500	599.00/M
						ChipFET — RoHS Compliant					
11A	30	.05	4.9	20	1.3	NTHS4501NT1GOSCT-ND	7.56	56.70	120.75	3,000	299.00/M
						SOT-363 — RoHS Compliant					
12A	25	.35	1.0	3.7	.63	NTJS4405NT1GOSCT-ND	4.00	30.00	60.00	3,000	150.00/M
						Dual N-Channel — RoHS Compliant					
						ChipFET					
11B	20	.075	3.1	10	1.13	NTHD4508NT1GOSCT-ND	5.50	41.25	82.50	3,000	206.00/M
	30	.14	2.9	10	1.13	NTHD4502NT1GOSCT-ND	6.84	51.30	109.25	3,000	271.00/M
						SOT-363					
12B	20	.375	.63	1.2	.27	NTJD4401NT1GOSCT-ND	3.60	27.00	54.00	3,000	135.00/M
	30	1.5	.25	.60	.272	NTJD4001NT1GOSCT-ND	3.13	22.00	40.00	3,000	90.00/M
						SOT-563					
13A	20	.55	.54	1.5	.25	NTZD3154NT1GOSCT-ND	3.90	28.08	52.65	4,000	133.00/M
						P-Channel — RoHS Compliant					
						TO-220					
2	60	.196	2.4	42	2.4	NTP2955GOS-ND	10.40	80.00	168.00	—	—
						TO-220AB					
2	30	.025	50	150	125	MTP50P03HDLGOS-ND	28.20	210.00	450.00	—	—
	60	.120	23	81	90	MTP23P06VGOS-ND	15.75	132.30	275.63	—	—
	100	.300	12	28	75	MTP12P10GOS-ND	17.50	147.00	306.25	—	—
	500	6	2	6.0	75	MTP2P50EGOS-ND	22.50	189.00	393.75	—	—
						8-SOIC					
4A	20	.075	5.6	30	2.5	MMSF3P02HDR2GOSCT-ND	12.35	95.00	199.50	2,500	505.00/M
						DPAK					
10	60	.180	12	36	55	NTD2955T4GOSCT-ND	6.38	47.87	101.95	2,500	253.00/M
	60	.143	15.5	50	65	NTD20P06LT4GOSCT-ND	10.73	82.50	173.25	2,500	439.00/M
	60	.450	5	18	40	MTD5P06VT4GOSCT-ND	7.92	59.40	126.50	2,500	314.00/M
						SOT-23					
5A	8	.052	3.7	11	.96	NTR2101PT1GOSCT-ND	3.05	21.92	41.11	3,000	104.00/M
	20	.085	2.4	7.5	.73	NTR4101PT1GOSCT-ND	3.40	24.48	45.90	3,000	116.00/M
	20	.28	1.0	2.67	.400	NTR1P02T1GOSCT-ND	3.25	23.40	43.88	3,000	111.00/M
	20	.80	0.4	1.0	.225	NTR0202PLT1GOSCT-ND	2.81	19.80	36.00	3,000	81.00/M
	20	.35	1.3	4	.400	NTR1P02LT1GOSCT-ND	3.25	23.40	43.88	3,000	111.00/M
	30	.35	1.13	6.8	.400	NTR4502PT1GOSCT-ND	3.56	25.63	48.06	3,000	121.00/M
	50	10	.130	.520	.225	BSS84LT1GOSCT-ND	2.92	18.98	32.85	3,000	69.00/M
						SOT-223					
6	60	.185	1.7	10.4	1.0	NTF2955T1GOSCT-ND	7.02	52.65	112.13	1,000	302.00
						SOT-323					
7	8	.10	1.4	3.0	.29	NTS2101PT1GOSCT-ND	3.50	25.20	47.25	3,000	119.00/M
	20	2.2	.300	.750	.150	MMBF2202PT1GOSCT-ND	3.37	24.26	45.50	3,000	115.00/M
						SOT-416					
7	20	.36	.760	1.0	.301	NTA4151PT1GOSCT-ND	3.25	23.40	43.88	3,000	111.00/M
						SC-89					
8	20	.36	.760	1.0	.301	NTE4151PT1GOSCT-ND	3.63	25.52	46.40	3,000	104.00/M
						TSOP-6					
9	20	.135	2.35	20	1	NTGS3441T1GOSCT-ND	4.00	28.80	54.00	3,000	136.00/M
	20	.100	3.1	14	2	NTGS3443T1GOSCT-ND	4.25	30.60	57.38	3,000	145.00/M
	30	.11	3.7	15	1.25	NTGS4111PT1GOSCT-ND	4.80	36.00	72.00	3,000	180.00/M
						ChipFET					
11A	30	.075	4.4	30	1.3	NTHS4111PT1GOSCT-ND	9.10	70.00	147.00	3,000	372.00/M
11C	20	.08	3.2	13	1.1	NTHD3101FT1GOSCT-ND	5.06	37.95	75.90	3,000	190.00/M
						SOT-363					
12A	12	.06	2.7	8.0	.625	NTJS3151PT1GOSCT-ND	3.75	27.00	50.63	3,000	128.00/M
						SOT-563					
13B	20	.15	.86	4	.17	NTZS3151PT1GOSCT-ND	3.60	27.00	54.00	4,000	135.00/M
						Dual P-Channel — RoHS Compliant					
						ChipFET					
11B	20	.155	2.1	7.0	1.1	NTHD4401PT3GOSCT-ND	6.48	48.60	103.50	10,000	234.00/M
						SOT-363					
12B	8	0.3	.775	1.2	.27	NTJD2152PT1GOSCT-ND	4.80	36.00	72.00	3,000	180.00/M
	20	.26	.88	3.0	.272	NTJD4152PT1GOSCT-ND	5.00	37.50	75.00	3,000	188.00/M
						SOT-563					
13A	20	0.9	.43	.75	.25	NTZD3152PT1GOSCT-ND	4.00	28.80	54.00	4,000	136.00/M
						Dual N/P Channel Complementary — RoHS Compliant					
						8-SOIC					
4B	30	.07/.20	4.1/3	21/15	2	MMDF2C03HDR2GOSCT-ND	13.00	100.00	210.00	2,500	532.00/M
						ChipFET					
11B	20	.08/.08	2.9/3.2	12/13	1.1	NTHD3100CT1GOSCT-ND	5.58	41.85	89.13	3,000	221.00/M
						SOT-363					
12B	20/8	.375/.30	.63/.775	1.2	.27	NTJD4105CT1GOSCT-ND	4.80	36.00	72.00	3,000	180.00/M
						SOT-563					
13A	20	.55/.9	.54/.43	1.5/.75	.25	NTZD3155CT1GOSCT-ND	3.90	28.08	52.65	4,000	133.00/M

JFET

Fig.	V_{DS} (V)	V_{GS} (V)	I_{GF} (mA)	P_D (mW)	$V_{(BR)GSS}$	Digi-Key Part No.	Pricing		
							1	10	100
						JFET Depletion Mode			
						TO-92 — RoHS Compliant			
1C	25	25	10	350	-25	J310GOS-ND	.46	3.56	25.63

Fig.	I_{DSS} Min. (A)	V_{GS} (off) Max. (V)	VGSS (V)	PD (W)	Digi-Key Part No.	Pricing			Tape and Reel§	
						10	100	250	Qty.	Pricing
					N-Channel — RoHS Compliant					
					TO-92					
1C	.001	-6	-25	.310	2N5457GOS-ND	3.56	25.63	48.06	—	—
	.002	-6	-25	.310	2N5458GOS-ND	7.50	54.00	101.25	—	—
					SOT-23					
5B	.025	-5	30	.225	MMBF4392LT1GOSCT-ND	3.15	22.64	42.46	3,000	107.00/M
	.005	-3	30	.225	MMBF4393LT1GOSCT-ND	3.15	22.64	42.46	3,000	107.00/M
	.005	-6	30	.225	MMBF4416LT1GOSCT-ND	3.15	22.64	42.46	3,000	107.00/M
	-.001	-3	-25	.200	MMBF5484LT1GOSCT-ND	3.56	25.63	48.06	3,000	121.00/M
	.012	-4	-25	.225	MMBFJ309LT1GOSCT-ND	3.56	25.63	48.06	3,000	121.00/M
	.024	-6.5	-25	.225	MMBFJ310LT1GOSCT-ND	3.56	25.63	48.06	3,000	121.00/M
	.001	-6	-25	.225	MMBF5457LT1GOSCT-ND	3.56	25.63	48.06	3,000	121.00/M
					P-Channel — RoHS Compliant					
					SOT-23					
5B	.0015	2.5	30	.225	MMBFJ177LT1GOSCT-ND	3.56	25.63	48.06	3,000	121.00/M
	.007	6	30	.225	MMBFJ175LT1GOSCT-ND	3.56	25.63	48.06	3,000	121.00/M
	-.001	6	40	.225	MMBF5460LT1GOSCT-ND	3.56	25.63	48.06	3,000	121.00/M
					TO-92					
1D	-.002	7.5	40	.350	2N5461GOS-ND	3.56	25.63	48.06	—	—

§ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ON Semiconductor™ # Transistors

Digi-Reel®

ON Semiconductor offers one of the broadest selections of small signal transistors in the industry. Supplying the devices required to complete design circuitry quickly, efficiently, and cost effectively. The company continues to introduce its small signal transistors in all the latest packages required by today's newest applications.

Fig. 1 — TO-3

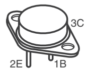

Fig. 2 — TO-92

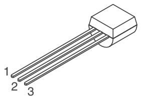

A.	B.
1. Emitter	1. Collector
2. Base	2. Base
3. Collector	3. Emitter

Fig. 3 — TO-218AC/ TO-218

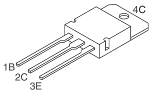

Fig. 4 — TO-220AB

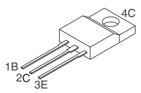

Fig. 5 — TO-225AA

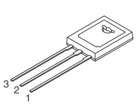

1. Emitter
2. Collector
3. Base

Fig. 6 — TO-264/ TO-3PBL

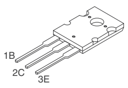

Fig. 7 — TO-264-5

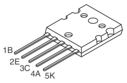

Fig. 8 — SOT-23

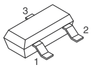

1. Base
2. Emitter
3. Collector

Fig. 9 — SOT-223

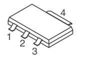

1. Base
2. Collector
3. Emitter
4. Collector

Fig. 10 — SOT-323

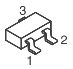

1. Base
2. Emitter
3. Collector

Fig. 11 — SOT-363/SC-88

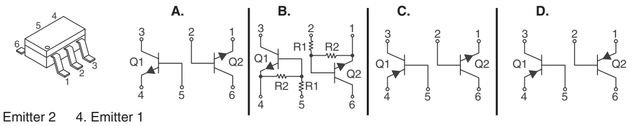

1. Emitter 2	4. Emitter 1
2. Base 2	5. Base 1
3. Collector 1	6. Collector 2

Fig. 12 — 16-SOIC

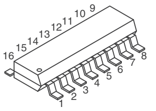

1. Collector Dye 1	9. Base 4
2. Collector 1	10. Emitter 4
3. Collector 2	11. Base 3
4. Collector 2	12. Emitter 3
5. Collector 3	13. Base 2
6. Collector 3	14. Emitter 2
7. Collector 4	15. Base 1
8. Collector 4	16. Emitter 1

Fig. 13 — SC-59

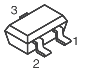

1. Emitter
2. Base
3. Collector

Fig. 14 — SC-75/ SOT-416

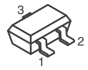

1. Base
2. Emitter
3. Collector

Fig. 15 — DPAK

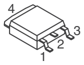

1. Gate
2. Drain
3. Source
4. Drain

Fig. 16 — 3-WDFN

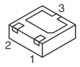

1. Base
2. Emitter
3. Collector

Fig. 17 — 1206A ChipFET

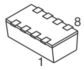

1. Collector	5. Emitter
2. Collector	6. Collector
3. Collector	7. Collector
4. Base	8. Collector

Fig. 18 — SOT-553

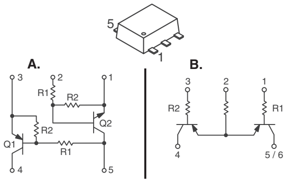

Fig. 19 — SOT-563

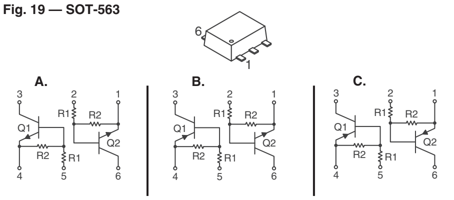

Fig.	VCEO (V)	VCB (V)	IC (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
NPN											
TO-3 — RoHS Compliant											
1	60	100	15	20	115	2N3055GOS-ND	2.10	17.50	147.00	—	—
	60	100	20	15	150	2N3772GOS-ND	3.89	33.84	252.00	—	—
	60	60	30	40	200	2N5302GOS-ND	3.51	30.55	227.50	—	—
	60	60	25	35	200	2N5885GOS-ND	3.51	30.55	227.50	—	—
	80	80	50	15	300	2N5686GOS-ND	11.60	107.30	812.00	—	—
	80	80	25	35	200	2N5886GOS-ND	3.51	30.55	227.50	—	—
	90	90	20	20	140	2N5038GOS-ND	8.28	75.60	597.60	—	—
	100	100	20	750	160	2N6284GOS-ND	3.92	34.08	253.75	—	—
	120	120	30	1K	200	MJ11016GOS-ND	3.72	32.34	240.85	—	—
	120	120	50	1K	300	MJ11032GOS-ND	6.82	62.29	492.41	—	—
	120	200	15	—	180	MJ15015GOS-ND	2.55	21.25	178.50	—	—
	140	140	20	25	250	MJ15003GOS-ND	3.78	32.90	245.00	—	—
	140	160	16	15	150	2N3773GOS-ND	3.89	33.84	252.00	—	—
	200	350	16	15	250	MJ15022GOS-ND	4.40	38.31	285.25	—	—
	250	400	16	15	250	MJ15024GOS-ND	4.40	38.31	285.25	—	—
	250	400	16	25	250	MJ21194GOS-ND	4.40	38.31	285.25	—	—
	250	400	16	25	250	MJ21196GOS-ND	3.78	32.90	245.00	—	—
TO-92 — 1.0mm Pitch											
2A	25	30	0.2	120	.625	2N4124GOS-ND◆	.28	1.66	10.79	—	—
	25	30	.05	450	.625	2N5089GOS-ND◆	.34	1.99	12.94	—	—
	30	30	0.5	10K	.625	MPSA14GOS-ND◆	.34	2.02	13.13	—	—
	30	60	0.6	50	.625	PN2222GOS-ND◆	.29	1.72	11.18	—	—
	30	60	0.6	50	.625	MPS2222GOS-ND◆	.29	1.70	11.05	—	—
	30	35	.05	350	.625	2N5088GOS-ND◆	.34	1.99	12.94	—	—
	40	4.0	0.1	40	.625	MPSA20OS-ND	.33	1.96	12.74	—	—
	40	60	2	75	.625	MPS650GOS-ND◆	.40	2.97	20.90	—	—
	40	60	0.6	20	.625	2N4401GOS-ND◆	.26	1.54	10.01	—	—
	40	60	0.2	40	.625	2N3904GOS-ND◆	.39	2.08	11.70	—	—
	40	75	0.6	35	.625	MPS2222AGOS-ND◆	.28	1.66	10.79	—	—
	40	75	0.6	50	.625	P2N2222AGOS-ND◆	.36	2.14	13.91	—	—
	40	75	0.6	35	.625	PN2222AGOS-ND◆	.29	1.72	11.18	—	—
	40	40	0.5	20K	.625	2N6426GOS-ND◆	.37	2.49	17.26	—	—
	40	40	0.5	10K	.625	2N6427GOS-ND◆	.37	2.49	17.26	—	—
	60	60	0.5	100	.625	MPSA05GOS-ND◆	.34	2.02	13.13	—	—
	80	80	0.5	75	.625	MPS8099GOS-ND◆	.37	2.49	17.26	—	—
	80	80	0.5	100	.625	MPSA06GOS-ND◆	.31	1.84	11.96	—	—
	80	80	0.5	80	1	MPS6717OS-ND	.48	3.50	24.64	—	—
	100	100	0.5	10K	.625	MPSA29GOS-ND◆	.34	2.02	13.13	—	—
	140	160	0.6	60	.625	2N5550GOS-ND◆	.34	1.99	12.94	—	—
	160	180	0.6	80	.625	2N5551GOS-ND◆	.34	1.99	12.94	—	—
	300	300	0.5	25	.625	MPSA42GOS-ND◆	.36	2.14	13.91	—	—
	350	350	0.5	20	.625	2N6517GOS-ND◆	.49	3.63	25.56	—	—
	400	500	0.3	40	.625	MPSA44GOS-ND◆	.62	4.98	37.35	—	—
2B	45	50	0.8	100	.625	BC337GOS-ND◆	.36	2.14	13.91	—	—
	45	50	0.1	240	.625	BC547BGOS-ND◆	.28	1.66	10.79	—	—
2B	65	80	0.1	240	.625	BC546BGOS-ND◆	.28	1.66	10.79	—	—
TO-92 - 2.5mm Pitch — RoHS Compliant											
2A	25	30	0.2	60	.625	MPS4124RLRAGOSCT-ND	.36	2.14	13.91	2,000	58.00/M
	40	60	0.6	40	.625	2N4401RLRAGOSCT-ND	—	1.60	10.40	2,000	42.00/M
	40	60	0.2	70	.625	2N3904RLRAGOSCT-ND	—	2.22	12.51	2,000	41.00/M
	40	60	0.6	20	.625	2N4401RLRPGOSCT-ND‡	.26	1.54	10.01	2,000	42.00/M
	40	60	0.2	40	.625	2N3904RLRMGOSCT-ND‡	.38	2.03	11.43	2,000	41.00/M
	40	60	0.2	40	.625	2N3904RLRPGOSCT-ND‡	.38	2.03	11.43	2,000	41.00/M
	40	75	0.6	35	.625	MPS2222ARLRAGOSCT-ND	—	1.78	11.57	2,000	48.00/M
	40	75	0.6	50	.625	PN2222ARLRAGOSCT-ND	—	1.72	11.18	2,000	46.00/M
	45	45	0.2	500	.625	MPSA18RLRAGOSCT-ND	—	2.02	13.13	2,000	55.00/M
	60	60	0.5	—	.625	MPSA05RLRAGOSCT-ND	—	2.02	13.13	2,000	55.00/M
	60	80	2	75	.625	MPS651RLRAGOSCT-ND	—	2.97	20.90	2,000	95.00/M
	60	60	0.5	10K	.625	MPSA27RLRAGOSCT-ND	—	2.02	13.13	2,000	55.00/M
	80	80	0.5	100	.625	MPS8099RLRAGOSCT-ND	—	2.49	17.26	2,000	76.00/M
	80	80	0.5	100	.625	MPSA06RLRAGOSCT-ND	—	1.84	11.96	2,000	50.00/M
	100	100	0.5	10K	.625	MPSA29RLRPGOSCT-ND‡	—	2.02	13.13	2,000	55.00/M
	160	180	0.6	80	.625	2N5551RLRAGOSCT-ND	—	1.99	12.94	2,000	54.00/M
	300	300	0.5	25	1	MPSW42RLRAGOSCT-ND	.45	3.34	23.50	2,000	107.00/M
	300	300	0.5	25	.625	MPSA42RLRAGOSCT-ND	—	2.14	13.91	2,000	58.00/M
	400	500	0.3	40	.625	MPSA44RLRAGOSCT-ND	—	4.98	37.35	2,000	199.00/M
TO-218AC — RoHS Compliant											
3	100	100	10	1K	3.5	TIP142GOS-ND	1.65	13.79	115.84	—	—
TO-218 — RoHS Compliant											
3	250	250	15	400	150	MJH11022GOS-ND	3.92	34.08	253.75	—	—
TO-220AB — RoHS Compliant											
4	40	40	3	25	2	TIP31GOS-ND	.69	5.55	41.61	—	—
	60	60	2	1K	2	TIP110GOS-ND	1.01	8.12	60.89	—	—
	60	60	5	1K	2	TIP120GOS-ND	.77	6.20	46.47	—	—
	60	—	10	60	50	D44H8GOS-ND	1.25	10.80	83.05	—	—
	60	60	8	1K	75	2N6043GOS-ND	1.07	8.54	64.07	—	—
	60	70	10	20	75	MJE3055TGOS-ND	1.07	9.26	71.20	—	—
	70	80	7	30	40	2N6292GOS-ND	1.04	9.03	69.45	—	—
	80	—	10	60	50	D44H11GOS-ND	1.25	10.80	83.05	—	—
	80	80	10	1K	2	2N6388GOS-ND	1.07	9.26	71.20	—	—
	80	80	5	1K	2	TIP121GOS-ND	.77	6.20	46.47	—	—
	80	80	3	25	2	TIP31BGOS-ND	.72	5.77	43.26	—	—
	80	90	15	20	1.8	2N6488GOS-ND	1.18	10.26	78.90	—	—
	80	—	15	35	83	D44VH10GOS-ND	1.25	10.80	83.05	—	—
	100	100	8	1K	75	2N6045GOS-ND	1.07	8.54	64.07	—	—
	100	100	5	1K	2	TIP122GOS-ND	.72	5.77	43.25	—	—
	100	100	8	1K	2	TIP102GOS-ND	1.12	8.97	67.28	—	—
	100	100	3	25	2	TIP31CGOS-ND	.69	5.54	41.55	—	—

§ For Tape and Reel part number, change CT-ND to TR-ND. ‡ For Tape and Box part number, change CT-ND to TB-ND.
◆ ***RoHS Compliant***

(Continued)

Fig.	VCEO (V)	VCB (V)	IC (A)	HFE (Min.)	Pd (TA @ 25°C) (W)	Digi-Key Part No.	Pricing			Tape and Reel§	
							1	10	100	Qty.	Pricing
4	100	100	6	30	2	TIP41CGOS-ND	.93	7.48	56.08	—	—
	150	150	8	40	2	MJE15030GOS-ND	1.30	11.25	86.50	—	—
	200	400	7	—	60	BU406GOS-ND	1.65	14.27	109.75	—	—
	250	250	8	70	8	MJE15032GOS-ND	1.35	11.66	89.73	—	—
	250	350	5	10	80	2N6497GOS-ND	.95	7.64	57.29	—	—
	350	350	4	100	2	MJE15034GOS-ND	1.58	13.65	105.00	—	—
	400	—	4	10	2	MJE13005GOS-ND	.97	7.78	58.32	—	—
	400	—	8	8	80	MJE13007GOS-ND	1.08	9.39	72.23	—	—
	400	—	12	8	2	MJE13009GOS-ND	1.49	12.87	99.00	—	—
	400	—	8	50	2	MJE5742GOS-ND	1.82	15.13	127.09	—	—
	400	—	5	10	75	BUL45GOS-ND	1.20	10.41	80.10	—	—
	400	500	1	30	2	TIP50GOS-ND	1.04	8.33	62.48	—	—
	450	—	2	30	50	BUX85GOS-ND	.98	8.49	65.28	—	—
	450	—	8	5	1	MJE18008GOS-ND	1.57	13.05	109.64	—	—
TO-225AA											
5	40	40	1	40	30	2N4921GOS-ND◆	.79	6.32	47.41	—	—
	25	40	5	70	1.5	MJE200OS-ND	.79	6.30	47.25	—	—
	25	40	5	70	1.5	MJE200GOS-ND◆	.71	5.70	42.72	—	—
	45	45	1.5	25	1.25	BD135GOS-ND◆	.74	5.93	44.49	—	—
	60	60	4	25	40	2N5191GOS-ND◆	.96	7.69	57.67	—	—
	60	60	1	40	30	2N4922GOS-ND◆	.79	6.32	47.41	—	—
	60	60	4	750	40	MJE800GOS-ND◆	.75	5.98	44.85	—	—
	60	60	4	500	1.5	2N6038GOS-ND◆	.86	6.84	51.30	—	—
	80	80	1	40	30	2N4923GOS-ND◆	.79	6.32	47.41	—	—
	80	80	4	20	40	2N5192GOS-ND◆	.85	6.83	51.25	—	—
	80	80	4	750	40	MJE802GOS-ND◆	.75	5.98	44.85	—	—
	80	80	4	500	1.5	2N6039GOS-ND◆	.86	6.84	51.30	—	—
	80	100	3	12	1.5	MJE182GOS-ND	.71	5.70	42.72	—	—
	80	100	1.5	25	1.25	BD139OS-ND	.70	5.62	42.11	—	—
	80	100	1.5	25	1.25	BD139GOS-ND◆	.74	5.93	44.49	—	—
	100	100	4	750	40	BD681GOS-ND◆	.80	6.41	48.06	—	—
	100	100	4	40	1.5	MJE243GOS-ND◆	.72	5.77	43.25	—	—
	250	275	0.5	25	20	2N5655OS-ND	.72	5.77	43.25	—	—
	250	275	0.5	25	20	2N5655GOS-ND◆	.72	5.77	43.25	—	—
	300	—	0.5	30	20	MJE340GOS-ND◆	.71	5.70	42.72	—	—
	350	375	0.5	25	20	2N5657GOS-ND◆	.75	5.98	44.85	—	—
TO-264/TO-3PBL — RoHS Compliant											
6	200	200	15	25	200	MJL3281AGOS-ND	3.68	32.07	238.79	—	—
	250	400	16	25	200	MJL21196GOS-ND	4.59	39.95	297.50	—	—
	250	400	16	25	200	MJL21194GOS-ND	4.86	42.30	315.00	—	—
	350	350	15	80	230	MJL4281AGOS-ND	5.75	52.50	415.00	—	—
TO-264-5 — RoHS Compliant											
7	260	260	15	150	200	NJL3281DOS-ND	5.00	43.48	323.75	—	—
SOT-23 — RoHS Compliant											
8	12	12	2.0	200	.54	NSS12201LT1GOSCT-ND	.68	5.40	40.50	3,000	203.00/M
	15	30	.05	20	.225	MMBT918LT1GOSCT-ND	.44	2.61	16.97	3,000	61.00/M
	15	40	0.2	40	.225	MMBT2369LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	15	40	0.2	40	.225	MMBT2369ALT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	20	20	2.0	200	.46	NSS20201LT1GOSCT-ND	.68	5.40	40.50	3,000	203.00/M
	25	30	.05	450	.225	MMBT5089LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	25	30	—	60	.225	MMBTH10LT1GOSCT-ND	—	2.14	13.91	3,000	50.00/M
	30	60	0.6	50	.225	MMBT2222LT1GOSCT-ND	—	1.44	8.10	3,000	24.00/M
	30	35	.05	350	.225	MMBT5088LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	30	30	0.3	5K	.225	MMBTA13LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	30	30	0.3	10K	.225	MMBTA14LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	30	30	0.1	110	.225	BC848ALT1GOSCT-ND	—	1.49	8.37	3,000	25.00/M
	30	30	0.1	200	.225	BC848BLT1GOSCT-ND	—	1.49	8.37	3,000	25.00/M
	30	30	0.1	420	.225	BC848CLT1GOSCT-ND	—	1.57	8.82	3,000	26.00/M
	40	75	0.6	50	.225	MMBT2222ALT1GOSCT-ND	—	1.41	7.92	3,000	24.00/M
	40	60	0.2	70	.225	MMBT3904LT1GOSCT-ND	—	1.36	7.65	3,000	23.00/M
	40	60	0.2	—	.225	MMBT3904LT3GOSCT-ND	—	1.36	7.65	10,000	17.00/M
	40	60	0.6	40	.225	MMBT4401LT1GOSCT-ND	—	1.41	7.92	3,000	24.00/M
	40	40	0.5	10K	.225	MMBT6427LT1GOSCT-ND	—	1.84	11.96	3,000	43.00/M
	40	40	2.0	180	.46	NSS40201LT1GOSCT-ND	.68	5.40	40.50	3,000	203.00/M
	45	55	0.2	500	.225	MMBT6429LT1GOSCT-ND	—	1.84	11.96	3,000	43.00/M
	45	50	0.5	100	.225	BC817-16LT1GOSCT-ND	—	1.44	8.10	3,000	24.00/M
	45	50	0.5	160	.225	BC817-25LT1GOSCT-ND	—	1.44	8.10	3,000	24.00/M
	45	50	0.5	250	.225	BC817-40LT1GOSCT-ND	—	1.68	9.45	3,000	28.00/M
	45	50	0.5	100	.225	BCX19LT1GOSCT-ND	—	1.66	10.79	3,000	39.00/M
	45	50	0.1	110	.225	BC847ALT1GOSCT-ND	—	1.49	8.37	3,000	25.00/M
	45	50	0.1	200	.225	BC847BLT1GOSCT-ND	—	1.49	8.37	3,000	25.00/M
	45	50	0.1	420	.225	BC847CLT1GOSCT-ND	—	1.57	8.82	3,000	26.00/M
	45	50	0.1	420	.225	BC850CLT1GOSCT-ND	—	1.57	8.82	3,000	26.00/M
	50	60	0.2	250	.225	MMBT6428LT1GOSCT-ND	—	1.84	11.96	3,000	43.00/M
	60	60	0.5	100	.225	MMBTA05LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	60	60	0.1	250	.225	MMBT2484LT1GOSCT-ND	—	1.72	11.18	3,000	40.00/M
	60	140	2	100	.46	NSS60201LT1GOSCT-ND◊	.68	5.40	40.50	3,000	203.00/M
	65	80	0.1	110	.225	BC846ALT1GOSCT-ND	—	1.49	8.37	3,000	25.00/M
	65	80	0.1	200	.225	BC846BLT1GOSCT-ND	—	1.49	8.37	3,000	25.00/M
	80	80	0.5	100	.225	MMBTA06LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	80	80	0.5	100	.225	MMBT8099LT1GOSCT-ND	—	1.84	11.96	3,000	43.00/M
8	140	160	0.6	60	.225	MMBT5550LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	160	180	0.6	80	.225	MMBT5551LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	300	300	0.5	25	.225	MMBTA42LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	350	350	0.1	15	.225	MMBT6517LT1GOSCT-ND	.46	3.56	25.63	3,000	121.00/M
SOT-223 — RoHS Compliant											
9	25	20	1	50	1.5	BCP68T1GOSCT-ND	—	3.04	21.38	1,000	97.00
	30	45	3	85	1.7	MMJT9410T1GOSCT-ND	—	4.62	34.65	—	—
	40	40	3	100	2	NJT4031NT1GOSCT-ND	.44	3.40	24.48	1,000	122.00
	40	40	3	100	2	NSS40301MZ4T1GOSCT-ND	.70	5.60	42.00	1,000	224.00
	40	75	0.6	50	1.5	PZT2222AT1GOSCT-ND	—	3.11	21.91	1,000	100.00
	60	100	6	50	0.8	NSS60601MZ4T1GOSCT-ND◊	.60	4.80	36.00	1,000	192.00
	60	80	2	75	0.8	PZT651T1GOSCT-ND	—	3.71	26.09	1,000	119.00
	80	90	1	1000	1.25	BSP52T1GOSCT-ND	—	3.27	23.51	1,000	118.00
	80	100	1	40	1.5	BCP56T1GOSCT-ND	—	3.11	21.91	1,000	100.00
	80	100	1	100	1.5	BCP56-16T1GOSCT-ND	—	3.11	21.91	1,000	100.00
	300	300	0.5	25	1.5	PZTA42T1GOSCT-ND	—	3.41	24.02	1,000	109.00
	300	300	0.1	50	1.5	BF720T1GOSCT-ND	—	3.86	27.76	1,000	139.00
	350	400	1	40	0.8	BSP19AT1GOSCT-ND	—	3.86	27.76	1,000	139.00
SOT-323 — RoHS Compliant											
10	40	75	0.6	50	.150	MMBT2222AWT1GOSCT-ND	—	1.87	10.53	3,000	32.00/M
	40	60	0.2	—	.150	MMBT3904WT1GOSCT-ND	—	1.74	9.81	3,000	29.00/M
	65	80	0.1	200	.150	BC846BWT1GOSCT-ND	.33	1.74	9.81	3,000	29.00/M
SOT-363/SC-88 — RoHS Compliant											
11A	40	60	0.2	70	.150	MBT3904DW1T1GOSCT-ND	—	1.90	12.35	3,000	45.00/M
	45	50	0.1	200	.38	BC847BDW1T1GOSCT-ND	.34	2.00	13.00	3,000	47.00/M
16-SOIC											
12	40	60	0.2	50	.800	MMPQ3904OS-ND	3.60	31.20	240.00	—	—
SC-75/SOT-416 — RoHS Compliant											
14	45	50	0.1	200	.200	BC847BTT1GOSCT-ND	—	1.70	9.54	3,000	29.00/M
	40	60	0.2	—	.200	MMBT3904TT1GOSCT-ND	—	1.73	9.72	3,000	29.00/M
DPAK — RoHS Compliant											
15	25	40	5	70	1.4	MJD200T4GOSCT-ND	—	5.70	42.72	2,500	214.00/M
	60	70	10	20	1.75	MJD3055T4GOSCT-ND	—	6.80	51.03	2,500	269.00/M
	80	—	8	60	1.75	MJD44H11T4GOSCT-ND	—	5.55	41.63	2,500	220.00/M
	100	100	3	25	1.5	MJD31CT4GOSCT-ND	—	4.75	35.61	2,500	178.00/M
	100	100	3	10	1.56	MJD31CGOS-ND	.59	4.75	35.61	—	—
	100	100	2	500	1.75	MJD112T4GOSCT-ND	—	5.84	43.77	2,500	219.00/M
	100	100	8	1K	1.75	MJD122T4GOSCT-ND	—	5.84	43.77	2,500	219.00/M
	250	350	1	10	1.56	MJD47T4GOSCT-ND	.69	5.48	41.12	2,500	217.00/M
	300	300	0.5	30	1.56	MJD340T4GOSCT-ND	—	5.04	37.80	2,500	189.00/M
	400	500	1	10	1.56	MJD50T4GOSCT-ND	.69	5.48	41.12	2,500	217.00/M
3-WDFN — RoHS Compliant											
16	12	12	5	200	.875	NSS12501UW3T2GOSCT-ND	1.35	10.80	81.00	3,000	405.00/M
	20	20	5	180	.875	NSS20501UW3T2GOSCT-ND	1.35	10.80	81.00	3,000	405.00/M
	40	40	5	180	.875	NSS40501UW3T2GOSCT-ND	1.35	10.80	81.00	3,000	405.00/M
1206A ChipFET — RoHS Compliant											
17	12	12	6	200	.830	NSS12601CF8T1GOSCT-ND	1.00	8.00	60.00	3,000	300.00/M
	20	20	6	200	.830	NSS20601CF8T1GOSCT-ND	.90	7.20	54.00	3,000	285.00/M
	40	40	6	200	.830	NSS40601CF8T1GOSCT-ND	.90	7.20	54.00	3,000	285.00/M
PNP											
TO-3 — RoHS Compliant											
1	60	60	25	35	200	2N5883GOS-ND	3.65	31.73	236.25	—	—
	80	80	25	35	200	2N5884GOS-ND	3.52	30.67	228.38	—	—
	80	80	50	15	300	2N5684GOS-ND	7.82	71.40	564.40	—	—
	100	100	12	750	150	2N6052GOS-ND	3.92	34.08	253.75	—	—
	120	120	30	1K	200	MJ11015GOS-ND	3.92	34.08	253.75	—	—
	120	200	15	—	180	MJ15016GOS-ND	2.94	24.50	205.80	—	—
	140	140	20	25	250	MJ15004GOS-ND	3.78	32.90	245.00	—	—
	200	350	16	15	250	MJ15023GOS-ND	4.40	38.31	285.25	—	—
	250	400	16	15	250	MJ15025GOS-ND	4.40	38.31	285.25	—	—
	250	400	16	25	250	MJ21193GOS-ND	4.40	38.31	285.25	—	—
	250	400	16	25	250	MJ21195GOS-ND	3.78	32.90	245.00	—	—
TO-92 — 1.0mm Pitch											
2A	30	30	0.5	10K	.625	MPSA64OS-ND	.33	1.96	12.74	—	—
	30	30	0.5	10K	.625	MPSA64GOS-ND◆	.34	2.02	13.13	—	—
	40	40	0.2	60	.625	2N3906GOS-ND◆	.39	2.08	11.70	—	—
	40	40	0.6	30	.625	2N4403GOS-ND◆	.26	1.54	10.01	—	—
	60	60	0.6	50	.625	MPS2907AGOS-ND◆	.32	1.90	12.35	—	—
	60	60	0.6	50	.625	PN2907AGOS-ND◆	.29	1.72	11.18	—	—
	60	60	0.5	100	.625	MPSA55GOS-ND◆	.34	2.02	13.13	—	—
	80	80	0.5	100	.625	MPSA56GOS-ND◆	.34	2.02	13.13	—	—
	300	300	0.5	25	.625	MPSA92GOS-ND◆	.40	2.35	15.28	—	—
2B	45	50	0.8	100	.625	BC327OS-ND	.28	1.64	10.66	—	—
	45	50	0.8	100	.625	BC327GOS-ND◆	.28	1.66	10.79	—	—
TO-92 — 2.5mm Pitch											
2A	40	40	0.2	80	.250	2N3906RLRAGOSCT-ND◆	—	2.27	12.78	2,000	42.00/M
	40	40	0.2	60	.625	2N3906RLRPGOSCT-ND◆	.39	2.08	11.70	2,000	42.00/M
	40	40	0.6	60	.625	2N4403RLRAGOSCT-ND◆	—	1.60	10.40	2,000	42.00/M
	50	50	0.05	250	.625	2N5087RLRAGOSCT-ND◆	—	1.99	12.94	2,000	54.00/M
	60	60	0.5	100	.625	MPSA55RLRAGOSCT-ND◆	.34	2.02	13.13	2,000	55.00/M
	60	60	0.6	100	.625	PN2907ARLRAOSCT-ND	—	1.72	11.18	2,000	46.00/M
	60	60	0.6	100	.625	PN2907ARLRAGOSCT-ND◆	—	1.72	11.18	2,000	46.00/M
	60	60	0.6	100	.625	MPS2907ARLRAGOSCT-ND◆	—	1.90	12.35	2,000	51.00/M
	80	80	0.5	100	.625	MPS8599RLRAGOSCT-ND◆	—	2.49	17.26	2,000	76.00/M
	80	80	0.5	100	.600	MPSA56RLRAGOSCT-ND◆	—	2.02	13.13	2,000	55.00/M

§ For Tape and Reel part number, change CT-ND to TR-ND. ‡ For Tape and Box part number, change CT-ND to TB-ND.

◆ *RoHS Compliant* ◊ ***NEW!***

(Continued)

ON Semiconductor™ Transistors *(Cont.)*

Fig.	V_{CEO} (V)	V_{CB} (V)	I_C (A)	H_{FE} (Min.)	P_d (T_A @ 25°C) (W)	Digi-Key Part No.	Pricing			Tape and Reel§	
							1	10	100	Qty.	Pricing
2A	150	160	0.6	50	.625	2N5401RLRAGOSCT-ND◆	—	1.99	12.94	2,000	54.00/M
	300	300	0.5	25	.625	MPSA92RLRAGOSCT-ND◆	.40	2.35	15.28	2,000	63.00/M
	350	350	0.5	20	.625	2N6520RLRAGOSCT-ND◆	—	3.56	25.08	2,000	114.00/M
TO-218AC											
3	100	100	10	1K	3.5	TIP147GOS-ND◆	1.70	14.14	118.80	—	—
	100	100	25	25	125	TIP36COS-ND	2.84	24.68	183.75	—	—
	100	100	25	25	125	TIP36CGOS-ND◆	2.35	19.54	164.16	—	—
TO-220AB											
4	30	40	7	30	40	2N6111GOS-ND◆	1.20	10.41	80.10	—	—
	50	60	7	30	40	2N6109GOS-ND◆	1.20	10.41	80.10	—	—
	60	60	3	25	2	TIP32AOS-ND	.68	5.41	40.55	—	—
	60	60	3	25	2	TIP32AGOS-ND◆	.72	5.77	43.26	—	—
	60	60	5	1K	2	TIP125GOS-ND◆	1.07	8.54	64.07	—	—
	60	60	8	1K	75	2N6040GOS-ND◆	1.03	8.25	61.88	—	—
	60	60	10	1K	2	2N6667GOS-ND◆	1.20	10.41	80.10	—	—
	60	—	10	60	50	D45H8GOS-ND◆	1.25	10.80	83.05	—	—
	60	70	10	20	75	MJE2955TGOS-ND◆	1.07	9.26	71.20	—	—
	70	80	7	30	40	2N6107GOS-ND◆	1.02	8.87	68.23	—	—
	80	—	10	60	50	D45H11GOS-ND◆	1.25	10.80	83.05	—	—
	80	90	15	20	1.8	2N6491GOS-ND◆	1.17	10.18	78.33	—	—
	80	—	15	35	83	D45VH10GOS-ND◆	1.25	10.80	83.05	—	—
	100	100	15	1K	85	BDW47GOS-ND◆	1.38	11.96	91.98	—	—
	100	100	8	1K	75	2N6042GOS-ND◆	1.03	8.25	61.88	—	—
	100	100	1	40	2	TIP30CGOS-ND◆	.69	5.54	41.55	—	—
	100	100	3	25	2	TIP32COS-ND	.86	6.84	51.30	—	—
	100	100	3	25	2	TIP32CGOS-ND◆	.69	5.54	41.55	—	—
	100	100	6	30	2	TIP42CGOS-ND◆	.88	7.05	52.87	—	—
	120	120	8	40	2	MJE15029OS-ND	1.58	13.65	105.00	—	—
	150	150	8	40	2	MJE15031GOS-ND◆	1.30	11.25	86.50	—	—
	250	250	8	50	2	MJE15033GOS-ND◆	1.35	11.66	89.73	—	—
	350	350	4	100	2	MJE15035GOS-ND◆	1.26	10.50	88.20	—	—
	375	375	1	30	2	MJE5731AOS-ND	1.60	13.88	106.80	—	—
	375	375	1	30	2	MJE5731AGOS-ND◆	1.60	13.88	106.80	—	—
	400	—	8	15	80	MJE5852GOS-ND◆	3.08	26.77	199.34	—	—
TO-225AA — RoHS Compliant											
5	25	40	5	75	1.5	MJE210GOS-ND	.71	5.70	42.72	—	—
	40	40	1	40	30	2N4918GOS-ND	.79	6.32	47.41	—	—
	40	40	4	—	1.5	2N6034GOS-ND	.90	7.20	54.00	—	—
	45	45	1.5	25	1.25	BD136GOS-ND	.73	5.80	43.50	—	—
	60	60	4	25	40	2N5194GOS-ND	.83	6.65	49.87	—	—
	60	60	4	750	40	MJE700GOS-ND	.75	5.98	44.85	—	—
	80	80	4	20	40	2N5195GOS-ND	.85	6.83	51.25	—	—
	80	80	1	10	30	2N4920GOS-ND	.79	6.32	47.41	—	—
	80	80	4	500	1.5	2N6036GOS-ND	.85	6.83	51.25	—	—
	80	100	3	12	1.5	MJE172GOS-ND	.71	5.70	42.72	—	—
	80	100	1.5	25	1.25	BD140GOS-ND	.73	5.80	43.50	—	—
	100	100	4	750	40	BD682GOS-ND	.80	6.41	48.06	—	—
	100	100	4	40	1.5	MJE253GOS-ND	.73	5.80	43.50	—	—
	300	—	0.5	30	20	MJE350GOS-ND	.71	5.70	42.72	—	—
TO-264/TO-3PBL											
6	200	200	15	60	200	MJL1302AGOS-ND◆	3.68	32.07	238.79	—	—
	250	400	16	25	200	MJL21195OS-ND	5.83	50.76	378.00	—	—
	250	400	16	25	200	MJL21195GOS-ND◆	4.59	39.95	297.50	—	—
	250	400	16	25	200	MJL21193GOS-ND◆	4.86	42.30	315.00	—	—
	350	350	15	80	230	MJL4302AGOS-ND◆	5.75	52.50	415.00	—	—
TO-264-5 — RoHS Compliant											
7	260	260	15	150	200	NJL1302DOS-ND	5.00	43.48	323.75	—	—
SOT-23 — RoHS Compliant											
8	30	30	0.5	10K	.225	MMBTA64LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	30	30	0.1	420	.225	BC858CLT1GOSCT-ND	—	1.57	8.82	3,000	26.00/M
	30	30	0.1	220	.225	BC858BLT1GOSCT-ND	.28	1.49	8.37	3,000	25.00/M
	30	30	0.5	5K	.225	MMBTA63LT1GOSCT-ND	.26	1.54	10.01	3,000	36.00/M
	40	40	0.2	80	.225	MMBT3906LT1GOSCT-ND	—	1.36	7.65	3,000	23.00/M
	40	40	0.6	60	.225	MMBT4403LT1GOSCT-ND	—	1.41	7.92	3,000	24.00/M
	45	50	0.5	100	.225	BCX17LT1GOSCT-ND	—	1.66	10.79	3,000	39.00/M
	45	50	0.1	220	.225	BC857BLT1GOSCT-ND	—	1.49	8.37	3,000	25.00/M
	45	50	0.5	160	.225	BC807-25LT1GOSCT-ND	—	1.44	8.10	3,000	24.00/M
	45	50	0.5	250	.225	BC807-40LT1GOSCT-ND	—	1.81	10.17	3,000	31.00/M
	45	50	0.1	420	.225	BC857CLT1GOSCT-ND	.29	1.57	8.82	3,000	26.00/M
	50	50	0.05	250	.225	MMBT5087LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	60	60	0.6	100	.225	MMBT2907ALT1GOSCT-ND	—	1.41	7.92	3,000	24.00/M
	60	60	0.5	100	.225	MMBTA55LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	60	80	2.0	100	.460	NSS60200LT1GOSCT-ND	.68	5.40	40.50	3,000	203.00/M
	65	80	0.1	125	.225	BC856ALT1GOSCT-ND	—	1.49	8.37	3,000	25.00/M
	65	80	0.1	220	.225	BC856BLT1GOSCT-ND	—	1.49	8.37	3,000	25.00/M
	80	80	0.5	100	.225	MMBTA56LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	150	160	0.5	50	.225	MMBT5401LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	300	300	0.5	25	.225	MMBTA92LT1GOSCT-ND	—	1.54	10.01	3,000	36.00/M
	350	350	0.5	15	.225	MMBT6520LT1GOSCT-ND	.37	2.49	17.26	3,000	66.00/M
SOT-223 — RoHS Compliant											
9	20	25	1	50	1.5	BCP69T1GOSCT-ND	—	3.04	21.38	1,000	97.00
	30	45	3	125	0.72	MMJT9435T1GOSCT-ND	—	4.81	36.06	1,000	192.00
	40	40	3	100	2.0	NJT4030PT1GOSCT-ND	.43	3.30	23.76	1,000	119.00
	40	40	3	100	2.0	NJT4030PT3GOSCT-ND	.33	2.64	19.80	4,000	99.00/M
	60	60	0.6	100	1.5	PZT2907AT1GOSCT-ND	—	3.11	21.91	1,000	100.00
	60	80	2	75	0.8	PZT751T1GOSCT-ND	—	3.71	26.09	1,000	119.00
	80	100	1.5	40	1.5	BCP53T1GOSCT-ND	—	3.11	21.91	1,000	100.00
	300	300	50	25	1.5	PZTA92T1GOSCT-ND	.46	3.41	24.02	1,000	109.00
SOT-323 — RoHS Compliant											
10	40	40	0.2	80	.150	MMBT3906WT1GOSCT-ND	—	1.74	9.81	3,000	29.00/M
	60	60	0.6	50	.150	MMBT2907AWT1GOSCT-ND	.33	1.74	9.81	3,000	29.00/M
Dual SOT-363/SC-88 — RoHS Compliant											
11A	40	40	0.2	80	.150	MBT3906DW1T1GOSCT-ND	—	1.90	12.35	3,000	45.00/M
11D	45	50	0.1	220	.380	BC857BDW1T1GOSCT-ND	.34	2.00	13.00	3,000	47.00/M
SOT-316/SC-75 — RoHS Compliant											
14	40	40	0.2	30	0.2	MMBT3906TT1GOSCT-ND	.32	1.73	9.72	3,000	29.00/M
DPAK											
15	25	40	5	70	1.4	MJD210T4GOSCT-ND◆	—	5.70	42.72	2,500	214.00/M
	60	70	10	20	1.75	MJD2955T4GOSCT-ND◆	—	6.05	45.36	2,500	239.00/M
	80	—	8	60	1.75	MJD45H11T4GOSCT-ND◆	—	5.77	43.28	2,500	228.00/M
	80	—	8	40	1.75	MJD45H11GOS-ND	.72	5.77	43.28	—	—
	100	100	3	25	1.56	MJD32CT4GOSCT-ND◆	—	5.12	38.43	2,500	192.00/M
	100	100	6	30	1.75	MJD42CT4GOSCT-ND◆	—	6.05	45.36	2,500	239.00/M
	100	100	2	200	20	MJD117T4GOSCT-ND◆	.73	5.84	43.77	2,500	219.00/M
	100	100	8	1K	1.75	MJD127T4OSCT-ND	—	8.40	63.02	—	—
	100	100	8	1K	1.75	MJD127T4GOSCT-ND◆	—	5.54	41.58	2,500	219.00/M
	300	300	0.5	30	1.56	MJD350T4GOSCT-ND◆	.65	5.22	39.15	2,500	196.00/M
NPN/PNP											
DUAL SOT-363/SC-88 — RoHS Compliant											
11A	40/ -40	60/ -40	0.2/ -0.2	70/ 80	.150	MBT3946DW1T1GOSCT-ND	—	1.90	12.35	3,000	45.00/M
11C	45/ -45	50/ -50	0.1/ -0.1	200/ -200	.380	BC847BPDW1T1GOSCT-ND	.34	2.00	13.00	3,000	47.00/M

Pre-Biased Transistors

Fig.	V_{CB} (V)	V_{CEO} (V)	H_{FE} (Min.)	R1 (K)	R2 (K)	Digi-Key Part No.	Pricing		Tape and Reel§	
							10	100	Qty.	Pricing
NPN										
SOT-23 — RoHS Compliant										
8	50	50	35	10	10	MMUN2211LT1GOSCT-ND	1.44	8.10	3,000	24.00/M
	50	50	60	22	22	MMUN2212LT1GOSCT-ND	1.44	8.10	3,000	24.00/M
	50	50	80	47	47	MMUN2213LT1GOSCT-ND	1.44	8.10	3,000	24.00/M
	50	50	80	6.1	—	MMUN2233LT1GOSCT-ND	1.44	8.10	3,000	24.00/M
SOT-363 — RoHS Compliant										
11B	50	50	35	13	—	MUN5211DW1T1GOSCT-ND	2.19	14.24	3,000	51.00/M
	50	50	80	61.1	—	MUN5213DW1T1GOSCT-ND	2.19	14.24	3,000	51.00/M
SC-59										
13	50	50	35	10	10	MUN2211T1GOSCT-ND◆	1.81	10.17	3,000	31.00/M
	50	50	80	47	47	MUN2213T1OSCT-ND	1.21	7.87	—	—
SC-75/SOT-416 — RoHS Compliant										
14	50	50	80	47	47	DTC144EET1GOSCT-ND	1.81	10.17	3,000	31.00/M
SOT-563 — RoHS Compliant										
19A	50	50	35	10	10	NSBC114EDXV6T1GOSCT-ND	2.84	19.71	4,000	76.00/M
	50	50	60	22	22	NSBC124EDXV6T1GOSCT-ND	2.84	19.71	4,000	76.00/M
	50	50	80	10	47	NSBC114YDXV6T1GOSCT-ND	2.84	19.71	4,000	76.00/M
	50	50	160	10	—	NSBC114TDXV6T1GOSCT-ND	2.84	19.71	4,000	76.00/M
NPN/PNP										
SOT-363										
11B	50	50	35	10	10	MUN5311DW1T1GOSCT-ND◆	2.19	14.24	3,000	51.00/M
SOT-553 — RoHS Compliant										
18A	50	50	60	22	1	EMC2DXV5T1GOSCT-ND	2.97	20.90	4,000	86.00/M
	50	50	20	4.7	.47	EMC5DXV5T1GOSCT-ND	2.97	20.90	4,000	86.00/M
SOT-563 – RoHS Compliant										
19B	50	50	35	10	10	NSBC114EPDXV6T1GOSCT-ND	2.84	19.71	4,000	76.00/M
	50	50	60	22	22	NSBC124EPDXV6T1GOSCT-ND	2.84	19.71	4,000	76.00/M
	50	50	80	47	47	NSBC144EPDXV6T1GOSCT-ND	2.84	19.71	4,000	76.00/M
	50	50	80	10	47	NSBC114YPDXV6T1GOSCT-ND	2.84	19.71	4,000	76.00/M
	50	50	160	4.7	—	NSBC143TPDXV6T1GOSCT-ND	2.84	19.71	4,000	76.00/M
	50	50	80	2.2	47	NSBC123JPDXV6T1GOSCT-ND	2.84	19.71	4,000	76.00/M
PNP Channel — RoHS Compliant										
SOT-23										
8	50	50	30	10	10	MMUN2111LT1GOSCT-ND	1.44	8.10	3,000	24.00/M
SOT-553										
18B	50	50	160	47	—	EMA6DXV5T1GOSCT-ND	2.97	20.90	4,000	86.00/M
SOT-563										
19C	50	50	160	10	—	NSBA114TDXV6T1GOSCT-ND	3.11	21.91	4,000	90.00/M
	50	50	80	2.2	47	NSBA123JDXV6T1GOSCT-ND	3.11	21.91	4,000	90.00/M

§ For Tape and Reel part number, change CT-ND to TR-ND. ‡ For Tape and Box part number, change CT-ND to TB-ND.
◆ *RoHS Compliant*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ON Semiconductor™ — Zener Regulators

Dimensions in mm

SOD-523

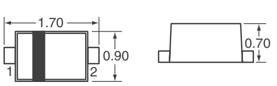

SOD-323

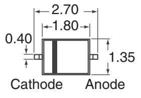

SOT-23

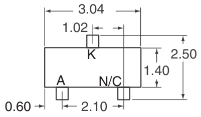

SOD-123

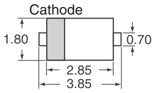

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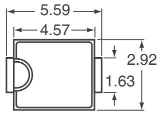

DO-41

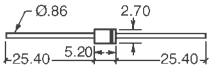

SMB

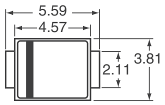

POWERMITE®
Case 457

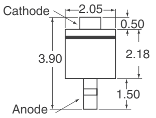

Surmetic™ 40

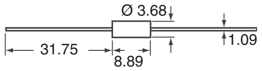

Zener Voltage	Test Current I_{ZT} (mA)	Zener Impedance Z_{ZT} @ I_{ZT}	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel§	
				10	100	250	Qty.	Pricing
200mW SMT — SOD-523 — RoHS Compliant								
4.7	5	80	MM5Z4V7ST1GOSCT-ND	2.13	13.85	23.96	3,000	50.00/M
5.1	5	60	MM5Z5V1ST1GOSCT-ND	2.13	13.85	23.96	3,000	50.00/M
5.6	5	40	MM5Z5V6ST1GOSCT-ND	2.13	13.85	23.96	3,000	50.00/M
200mW SMT — SOD-323								
4.7	5	80	MM3Z4V7T1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
4.7	5	80	MM3Z4V7ST1GOSCT-ND◆	1.87	10.53	17.55	3,000	32.00/M
5.1	5	60	MM3Z5V1T1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
5.1	5	60	MM3Z5V1ST1GOSCT-ND◆	1.87	10.53	17.55	3,000	32.00/M
5.6	5	40	MM3Z5V6ST1GOSCT-ND◆	1.87	10.53	17.55	3,000	32.00/M
5.6	5	40	MM3Z5V6T1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
6.2	5	10	MM3Z6V2T1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
10.0	5	20	MM3Z10VT1OSCT-ND◆	2.21	12.42	20.70	3,000	37.00/M
10.0	5	20	MM3Z10VT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
10.0	5	15	MM3Z10VST1GOSCT-ND◆	1.87	10.53	17.55	3,000	32.00/M
12.0	5	25	MM3Z12VST1GOSCT-ND◆	1.87	10.53	17.55	3,000	32.00/M
12.0	5	25	MM3Z12VT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
15.0	5	30	MM3Z15VT1OSCT-ND	2.21	12.42	20.70	—	—
15.0	5	30	MM3Z15VT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
18.0	5	45	MM3Z18VST1GOSCT-ND◆	1.87	10.53	17.55	3,000	32.00/M
225mW — SOT-23								
2.4	5	100	BZX84C2V4LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
2.7	5	100	BZX84C2V7LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
3	5	95	BZX84C3V0LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
3.3	5	95	BZX84C3V3ET1GOSCT-ND◆	1.66	10.79	18.68	3,000	39.00/M
3.3	5	95	BZX84C3V3LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
3.6	5	90	BZX84C3V6LT1OSCT-ND	1.98	11.16	18.60	—	—
3.6	5	90	BZX84C3V6LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
3.9	5	90	BZX84C3V9LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
4.3	5	90	BZX84C4V3LT1OSCT-ND	1.40	9.10	15.75	—	—
4.3	5	90	BZX84C4V3LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
4.7	5	80	BZX84C4V7LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
5.1	5	60	BZX84B5V1LT1GOSCT-ND◆	1.54	10.01	17.33	3,000	36.00/M
5.1	5	60	BZX84C5V1LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
5.6	5	40	BZX84B5V6LT1GOSCT-ND◆	1.54	10.01	17.33	3,000	36.00/M
5.6	5	40	BZX84C5V6LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
6.2	5	10	BZX84C6V2LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
6.8	5	15	BZX84C6V8LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
7.5	5	15	BZX84C7V5LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
8.2	5	15	BZX84B8V2LT1GOSCT-ND◆	3.30	22.88	41.25	3,000	88.00/M
8.2	5	15	BZX84C8V2LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
9.1	5	15	BZX84C9V1LT1OSCT-ND	1.40	9.10	15.75	—	—
9.1	5	15	BZX84C9V1LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
10	5	20	BZX84C10LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
11	5	20	BZX84C11LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
12	5	25	BZX84B12LT1GOSCT-ND◆◊	2.29	12.87	21.45	3,000	39.00/M
12	5	25	BZX84C12LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
13	5	30	BZX84C13LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
15	5	30	BZX84B15LT1GOSCT-ND◆◊	2.29	12.87	21.45	3,000	39.00/M
15	5	30	BZX84C15LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
16	5	40	BZX84C16LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
18	5	45	BZX84C18LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
20	5	55	BZX84C20LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
24	5	70	BZX84C24LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
27	2	80	BZX84C27LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
30	2	80	BZX84C30LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
36	2	90	BZX84C36LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
43	2	150	BZX84C43LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
47	2	170	BZX84C47LT1GOSCT-ND◆	1.89	10.62	17.70	3,000	30.00/M
75	2	255	BZX84C75LT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M

Test Zener Voltage	Zener Current I_{ZT} (mA)	Impedance Z_{ZT} @ I_{ZT}	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel§	
				10	100	250	Qty.	Pricing
2.4	20	30	MMBZ5221BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
2.5	20	30	MMBZ5222BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
2.7	20	30	MMBZ5223BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
3	20	29	MMBZ5225BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
3.3	20	28	MMBZ5226BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
3.6	20	24	MMBZ5227BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
3.9	20	23	MMBZ5228BLT1OSCT-ND	2.30	12.96	21.60	—	—
4.3	20	22	MMBZ5229BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
4.7	20	19	MMBZ5230BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
5.1	20	17	MMBZ5231BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
5.1	20	17	MMBZ5231ELT1GOSCT-ND◆	1.66	10.79	18.68	3,000	39.00/M
5.6	20	11	MMBZ5232BLT1GOSCT-ND◆	1.89	10.62	17.70	3,000	32.00/M
6	20	7	MMBZ5233B LT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
6.2	20	7	MMBZ5234BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
6.8	20	5	MMBZ5235BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
7.5	20	6	MMBZ5236BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
9.1	20	10	MMBZ5239BLT1OSCT-ND	2.30	12.96	21.60	—	—
9.1	20	10	MMBZ5239BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
10	20	17	MMBZ5240BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
12	20	30	MMBZ5242BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
13	9.5	13	MMBZ5243BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
14	9	15	MMBZ5244BLT1OSCT-ND	2.30	12.96	21.60	3,000	34.00/M
14	9	15	MMBZ5244BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
15	8.5	16	MMBZ5245BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
16	7.8	17	MMBZ5246BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
18	7	21	MMBZ5248BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
20	6.2	25	MMBZ5250BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
22	5.6	29	MMBZ5251BLT1OSCT-ND	2.02	11.34	18.90	—	—
24	5.2	33	MMBZ5252BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
27	4.6	41	MMBZ5254BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
30	4.2	49	MMBZ5256BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
33	3.8	58	MMBZ5257BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
91	1.4	400	MMBZ5270BLT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
500mW SMT — SOD-123								
1.8	.05	—	MMSZ4678T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
2	.05	—	MMSZ4679T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
2.4	.05	—	MMSZ4681T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
2.4	20	30	MMSZ5221BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
3	.05	—	MMSZ4683T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
3	20	29	MMSZ5225BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
3.3	.05	—	MMSZ4684T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
3.3	20	28	MMSZ5226BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
3.3	2.3	95	MMSZ3V3T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
3.6	.05	—	MMSZ4685T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
3.9	.05	—	MMSZ4686T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
4.3	20	22	MMSZ5229BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
4.3	.05	—	MMSZ4687T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
4.7	.05	—	MMSZ4688T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
4.7	20	19	MMSZ5230BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
4.7	3.7	80	MMSZ4V7T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
5.1	.05	—	MMSZ4689T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
5.1	20	17	MMSZ5231BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
5.1	4.2	60	MMSZ5V1T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
5.6	.05	—	MMSZ4690T1GOSCT-ND◆	1.70	11.05	19.13	—	—
5.6	5	40	MMSZ5V6T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
5.6	20	11	MMSZ5232BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M

† Bulk only § For Tape and Reel part number, change CT-ND to TR-ND.
◆ *RoHS Compliant* ◊ ***NEW!***

(Continued)

Zener Voltage	Test Current I_{ZT} (mA)	Zener Impedance Z_{ZT} @ I_{ZT}	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 250	Tape & Reel§ Qty.	Tape & Reel§ Pricing
6	20	7	MMSZ5233BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
6.2	.05	—	MMSZ4691T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
6.2	20	7	MMSZ5234BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
6.8	20	5	MMSZ5235BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
6.8	.05	—	MMSZ4692T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
7.5	20	6	MMSZ5236BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
7.5	.05	—	MMSZ4693T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
8.2	.05	—	MMSZ4694T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
9.1	.05	—	MMSZ4696T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
9.1	20	10	MMSZ5239BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
10	.05	—	MMSZ4697T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
10	20	17	MMSZ5240BT1GOSCT-ND◆	1.94	12.61	21.83	3,000	40.00/M
12	.05	—	MMSZ4699T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
12	20	30	MMSZ5242BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
12	11.2	25	MMSZ12T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
13	9.5	13	MMSZ5243BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
14	9.0	15	MMSZ5244BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
15	.05	—	MMSZ4702T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
15	15.5	200	MMSZ15T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
15	8.5	16	MMSZ5245BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
16	7.8	17	MMSZ5246BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
17	7.4	19	MMSZ5247BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
18	7.0	21	MMSZ5248BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
18	.05	—	MMSZ4705T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
18	16.7	45	MMSZ18T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
20	6.2	25	MMSZ5250BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
22	5.6	29	MMSZ5251BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
24	5.2	33	MMSZ5252BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
27	4.6	41	MMSZ5254BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
30	4.2	49	MMSZ5256BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
33	3.8	58	MMSZ5257BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
36	3.4	70	MMSZ5258BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
43	3.0	93	MMSZ5260BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
43	46	375	MMSZ43T1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
47	2.7	105	MMSZ5261BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
51	2.5	125	MMSZ5262BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
56	2.2	150	MMSZ5263BT1OSCT-ND	2.15	13.98	24.19	—	—
75	1.7	270	MMSZ5267BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
91	1.4	400	MMSZ5270BT1GOSCT-ND◆	1.70	11.05	19.13	3,000	40.00/M
1.5W SMT – SMA — RoHS Compliant								
3.3	113.6	10	1SMA5913BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
3.6	104.2	9.0	1SMA5914BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
4.7	79.8	5.0	1SMA5917BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
5.1	73.5	4.0	1SMA5918BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
5.6	66.9	2.0	1SMA5919BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
6.2	60.5	2.0	1SMA5920BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
6.8	55.1	2.5	1SMA5921BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
7.5	50	3.0	1SMA5922BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
8.2	45.7	3.5	1SMA5923BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
10	37.5	4.5	1SMA5925BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
12	31.2	6.5	1SMA5927BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
13	28.8	7.0	1SMA5928BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
15	25	9.0	1SMA5929BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
15	50	10	BZG03C15GOSCT-ND	3.56	25.63	48.06	5,000	104.00/M
18	20.8	12	1SMA5931BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
24	15.6	19	1SMA5934BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
27	13.9	23	1SMA5935BT3GOSCT-ND	3.56	25.04	45.52	5,000	97.00/M
150	5	300	BZG03C150GOSCT-ND	3.56	25.63	48.06	5,000	104.00/M
3W DO-41 Surmetic™ 30 — RoHS Compliant								
6.2	60.5	2	1N5920BGOS-ND†	3.71	26.09	47.44	—	—
15	25	9	1N5929BRLGOSCT-ND	3.71	26.09	47.44	6,000	101.00/M
200	1.9	1200	1N5956BRLGOSCT-ND	3.71	26.09	47.44	6,000	101.00/M
3W SMT — SMB								
3.3	113.6	10	1SMB5913BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
3.6	104.2	9	1SMB5914BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
3.9	96.1	7.5	1SMB5915BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
4.3	87.2	6	1SMB5916BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
4.7	79.8	5	1SMB5917BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
5.1	73.5	4	1SMB5918BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
5.6	66.9	2	1SMB5919BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
6.2	60.5	2	1SMB5920BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
6.8	55.1	2.5	1SMB5921BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
7.5	50	3	1SMB5922BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
8.2	45.7	3.5	1SMB5923BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
9.1	41.2	4	1SMB5924BT3OSCT-ND	3.76	27.04	50.69	—	—
9.1	41.2	4	1SMB5924BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
10	37.5	4.5	1SMB5925BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
12	31.2	6.5	1SMB5927BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
13	28.8	7	1SMB5928BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
15	25	9	1SMB5929BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
16	23.4	10	1SMB5930BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
22	23.1	17.5	1SMB5933BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
30	12.5	28	1SMB5936BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
33	11.4	33	1SMB5937BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
36	10.4	38	1SMB5938BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
39	9.6	45	1SMB5939BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
47	8	67	1SMB5941BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
51	7.3	70	1SMB5942BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
56	6.7	86	1SMB5943BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
200	1.9	1200	1SMB5956BT3GOSCT-ND◆	3.63	25.56	46.48	2,500	105.00/M
3.2W SMT — POWERMITE® Case 457								
27	13.9	23	1PMT5935BT1OSCT-ND	4.27	30.74	57.65	3,000	145.00/M
5W Surmetic™ 40 — RoHS Compliant								
3.3	380	3	1N5333BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
3.9	320	2	1N5335BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
4.3	290	2	1N5336BGOS-ND†	4.40	31.68	59.40	—	—
4.7	260	2	1N5337BGOS-ND†	4.40	31.68	59.40	—	—
5.1	240	1.5	1N5338BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
5.1	240	1.5	1N5338BGOS-ND†	4.40	31.68	59.40	—	—
5.6	220	1	1N5339BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
5.6	220	1	1N5339BGOS-ND†	4.40	31.68	59.40	—	—
6	200	1	1N5340BGOS-ND†	4.40	31.68	59.40	—	—
6.2	200	1	1N5341BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
6.2	200	1	1N5341BGOS-ND†	4.40	31.68	59.40	—	—
6.8	175	1	1N5342BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
7.5	175	1.5	1N5343BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
8.2	150	1.5	1N5344BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
9.1	150	2	1N5346BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
10	125	2	1N5347BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
11	125	2.5	1N5348BGOS-ND†	4.40	31.68	59.40	—	—
12	100	2.5	1N5349BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
12	100	2.5	1N5349BGOS-ND†	4.40	31.68	59.40	—	—
13	100	2.5	1N5350BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
14	100	2.5	1N5351BGOS-ND†	4.40	31.68	59.40	—	—
15	75	2.5	1N5352BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
15	75	2.5	1N5352BGOS-ND†	4.40	31.68	59.40	—	—
16	75	2.5	1N5353BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
18	65	2.5	1N5355BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
20	65	3	1N5357BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
22	50	3.5	1N5358BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
24	50	3.5	1N5359BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
25	50	4	1N5360BGOS-ND†	4.40	31.68	59.40	—	—
27	50	5	1N5361BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
28	50	6	1N5362BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
30	40	8	1N5363BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
33	40	10	1N5364BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
36	30	11	1N5365BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
39	30	14	1N5366BGOS-ND†	4.40	31.68	59.40	—	—
43	30	20	1N5367BGOS-ND†	4.40	31.68	59.40	—	—
47	25	25	1N5368BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
56	20	35	1N5370BGOS-ND†	4.40	31.68	59.40	—	—
68	20	44	1N5373BGOS-ND†	4.40	31.68	59.40	—	—
75	20	45	1N5374BGOS-ND†	4.40	31.68	59.40	—	—
82	15	65	1N5375BGOS-ND†	4.40	31.68	59.40	—	—
100	12	90	1N5378BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
100	12	90	1N5378BGOS-ND†	4.40	31.68	59.40	—	—
150	8	330	1N5383BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M
180	5	430	1N5386BGOS-ND†	4.40	31.68	59.40	—	—
200	5	480	1N5388BRLGOSCT-ND	4.40	31.68	59.40	4,000	150.00/M

† Bulk only § For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Rectifiers

Fig.	Package	Working Peak Reverse Voltage V_{RWM}	Average Rectified Forward Current I_O (A)	Peak Surge Current I_{FSM} (A)	Max. Instantaneous Forward Voltage Drop V_F (V)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 250	Tape and Reel§ Qty.	Tape and Reel§ Pricing
Recovery Power											
1	SMA	300	1	30	1.1	MRA4003T3GOSCT-ND◆	2.67	18.51	33.38	5,000	64.00/M
		400	1	30	1.1	MRA4004T3GOSCT-ND◆	2.54	17.58	31.69	5,000	61.00/M
		600	1	30	1.1	MRA4005T3GOSCT-ND◆	2.54	17.58	31.69	5,000	61.00/M
		800	1	30	1.1	MRA4006T3GOSCT-ND◆	2.67	18.51	33.38	5,000	64.00/M
		1000	1	30	1.1	MRA4007T3GOSCT-ND◆	2.54	17.58	31.69	5,000	61.00/M
2	Case194	50	6	400	0.9	MR750RLGOSCT-ND◆	9.64	74.15	155.72	—	—
		400	6	400	0.9	MR754RLGOSCT-ND◆	9.64	74.15	155.72	800	393.60
3	MICRODE	400	25	400	1.18	MR2504OS-ND	7.17	53.81	114.60	—	—
4	DO-41	800	1	35	1.75	MUR180EGOS-ND◆	4.16	29.92	56.09	—	—
		1000	1	35	1.75	MUR1100ERLGOSCT-ND◆	4.27	32.04	64.08	5,000	150.00/M
5A	D-PAK	200	6	50	1	MURD620CTT4GOSCT-ND◆	5.22	39.15	78.30	2,500	196.00/M
		200	3	6	0.95	MURD320T4OSCT-ND	6.28	47.12	100.34	—	—
		200	3	6	0.95	MURD320T4GOSCT-ND◆	5.40	40.50	86.25	2,500	214.00/M
6	D2-PAK	15	25	150	0.45	MBRB2515LT4GOSCT-ND◆	19.28	161.95	337.40	800	925.60
Standard Recovery											
4	DO-41	50	1	30	1.1	1N4001GOS-ND◆	2.27	12.78	21.30	—	—
		50	1	30	1.1	1N4001RLGOSCT-ND◆	2.27	12.78	21.30	5,000	33.00/M
		50	1	30	1.2	1N4933RLGOSCT-ND◆	2.52	16.38	28.35	5,000	50.00/M
		100	1	30	1.1	1N4002GOS-ND◆	2.27	12.78	21.30	—	—
		100	1	30	1.2	1N4934RLGOSCT-ND◆	2.52	16.38	28.35	5,000	50.00/M
		200	1	30	1.1	1N4003GOS-ND◆	2.27	12.78	21.30	—	—
		200	1	30	1.1	1N4003RLGOSCT-ND◆	2.27	12.78	21.30	5,000	33.00/M
		200	1	30	1.2	1N4935RLGOSCT-ND◆	2.52	16.38	28.35	5,000	50.00/M
		400	1	30	1.1	1N4004GOS-ND◆	2.27	12.78	21.30	—	—
		400	1	30	1.1	1N4004RLGOSCT-ND◆	2.27	12.78	21.30	5,000	33.00/M
		400	1	30	1.2	1N4936RLGOSCT-ND◆	2.52	16.38	28.35	5,000	50.00/M
		600	1	30	1.1	1N4005GOS-ND◆	2.27	12.78	21.30	—	—
		600	1	30	1.2	1N4937RLGOSCT-ND◆	2.52	16.38	28.35	5,000	50.00/M
		800	1	30	1.1	1N4006GOS-ND◆	2.27	12.78	21.30	—	—
		800	1	30	1.1	1N4006RLGOSCT-ND◆	2.27	12.78	21.30	5,000	33.00/M
		1000	1	30	1.1	1N4007GOS-ND◆	2.27	12.78	21.30	—	—
		1000	1	30	1.1	1N4007RLGOSCT-ND◆	2.27	12.78	21.30	5,000	33.00/M
7	DO-201AD	50	3	200	1	1N5400RLGOSCT-ND◆	3.02	20.96	37.78	1,200	93.00/M
		50	3	200	1	1N5400GOS-ND◆	3.02	20.96	37.78	—	—
		100	3	200	1	1N5401RLGOSCT-ND◆	3.02	20.96	37.78	1,200	93.00/M
		200	3	100	1.25	MR852RLGOSCT-ND◆	2.97	20.90	38.00	1,200	95.00/M
		200	3	200	1	1N5402RLGOSCT-ND◆	3.02	20.96	37.78	1,200	93.00/M
		200	3	200	1	1N5402GOS-ND◆	3.02	20.96	37.78	—	—
		400	3	200	1	1N5404RLGOSCT-ND◆	3.02	20.96	37.78	1,200	93.00/M
		400	3	200	1	1N5404GOS-ND◆	3.02	20.96	37.78	—	—
		400	3	100	1.25	MR854OS-ND	3.12	21.96	39.92	—	—
		400	3	100	1.25	MR854GOS-ND◆	2.97	20.90	38.00	—	—
		600	3	200	1	1N5406RLGOSCT-ND◆	3.02	20.96	37.78	1,200	93.00/M
		600	3	100	1.25	MR856RLGOSCT-ND◆	2.97	20.90	38.00	1,200	95.00/M
		1000	3	200	1	1N5408RLGOSCT-ND◆	3.02	20.96	37.78	1,200	93.00/M
		1000	3	200	1.0	1N5408GOS-ND◆	3.02	20.96	37.78	—	—
8	SMB	400	1.5	50	1.1	MRS1504T3GOSCT-ND◆	3.93	28.26	52.99	2,500	133.00/M
9	TO-220AC	600	8.0	100	1.4	MSR860GOS-ND◆	11.38	87.50	183.75	—	—
		600	15	100	1.5	MSR1560GOS-ND◆	12.72	97.88	205.54	—	—
Fast Recovery — RoHS Compliant											
4	DO-41	600	1	30	1.2	1N4937GOS-ND	2.52	16.38	28.35	—	—
Ultra Fast Recovery											
1	SMA	100	2	50	0.94	MURA210T3GOSCT-ND◆	3.09	22.21	41.65	5,000	99.00/M
		200	2	40	0.95	MURA220T3GOSCT-ND◆	3.09	22.21	41.65	5,000	99.00/M
		200	1	40	0.875	MURA120T3GOSCT-ND◆	3.09	22.21	41.65	5,000	99.00/M
		400	1	35	1.1	MURA140T3GOSCT-ND◆	3.09	22.21	41.65	5,000	99.00/M
		400	2	35	1.3	MURA240T3GOSCT-ND◆	3.09	22.21	41.65	5,000	99.00/M
		600	1	30	1.25	MURA160T3GOSCT-ND◆	3.09	22.21	41.65	5,000	99.00/M
		600	2	30	1.45	MURA260T3GOSCT-ND◆	3.09	22.21	41.65	5,000	99.00/M
4	DO-41	100	1	35	0.875	MUR110GOS-ND◆	3.71	26.09	47.44	—	—
		200	1	35	0.875	MUR120GOS-ND◆	3.52	24.77	45.04	—	—
		600	1	35	1.25	MUR160GOS-ND◆	3.44	24.20	44.00	—	—
		1000	1	35	1.75	MUR1100EGOS-ND◆	4.51	33.81	67.62	—	—
5A	D-PAK	200	6	50	1.15	MSRD620CTT4GOSCT-ND◆	7.20	54.00	115.00	2,500	285.00/M
6	D2-PAK	200	16	100	1.2	MURB1620CTRT4GOSCT-ND◆	14.27	109.75	230.48	800	583.20
		200	16	100	0.975	MURB1620CTT4GOSCT-ND◆	13.07	100.53	211.10	800	533.60
		600	8	100	1.5	MURB1660CTT4OSCT-ND	13.39	112.50	234.37	—	—
		600	8	100	1.5	MURB1660CTT4GOSCT-ND◆	14.95	115.00	241.50	800	611.20
		600	4	100	2.8	MURHB860CTT4GOSCT-ND◆	15.42	118.65	249.17	800	630.40
7	DO-201AD	50	4	125	0.89	MUR405GOS-ND◆	4.27	32.04	64.08	—	—
		100	4	125	0.89	MUR410GOS-ND◆	4.27	32.04	64.08	—	—
		100	4	125	0.89	MUR410RLGOSCT-ND◆	4.27	32.04	64.08	1,500	171.00/M
		100	2	50	0.875	MURA110T3GOSCT-ND◆	3.09	22.21	41.65	5,000	99.00/M
		100	1	35	0.875	MUR110RLGOSCT-ND◆	3.71	26.09	47.44	5,000	101.00/M
		150	1	35	0.875	MUR115RLOSCT-ND	3.11	22.39	41.99	—	—
		150	1	35	0.875	MUR115RLGOSCT-ND◆	3.71	26.09	47.44	5,000	101.00/M
		150	4	125	0.89	MUR415GOS-ND◆	4.27	32.04	64.08	—	—
		200	4	125	0.89	MUR420GOS-ND◆	4.27	32.04	64.08	—	—
		200	4	125	0.89	MUR420RLGOSCT-ND◆	4.27	32.04	64.08	1,500	171.00/M
		200	1	35	0.875	MUR120RLGOSCT-ND◆	3.52	24.77	45.04	5,000	96.00/M
		400	1	35	1.25	MUR140RLGOSCT-ND◆	3.44	24.20	44.00	5,000	94.00/M

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND. † Pinning Reversed *(Continued)*

Dimensions in mm

Fig. 1 — SMA

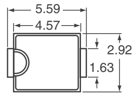

Fig. 2 — Case194

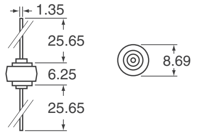

Fig. 3 — MICRODE

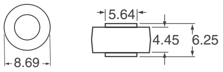

Fig. 4 — DO-41

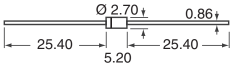

Fig. 5 — D-PAK

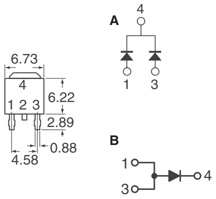

Fig. 6 — D2-PAK

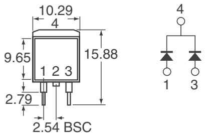

Fig. 7 — DO-201AD

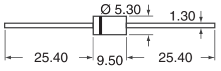

Rectifiers *(Cont.)*

Dimensions in mm

Fig.	Package	Working Peak Reverse Voltage V_{RWM}	Average Rectified Forward Current I_O (A)	Peak Surge Current I_{FSM} (A)	Max. Instantaneous Forward Voltage Drop V_F (V)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 250	Tape and Reel§ Qty.	Tape and Reel§ Pricing
7	DO-201AD	600	1	35	1.25	MUR160RLGOSCT-ND◆	3.44	24.20	44.00	5,000	94.00/M
		600	4	110	1.25	MUR460RLGOSCT-ND◆	4.75	35.61	71.22	1,500	190.00/M
		600	4	110	1.28	MUR460GOS-ND◆	4.75	35.61	71.22	—	—
		1,000	4	70	1.85	MUR4100EGOS-ND◆	5.98	44.85	95.51	—	—
		1,000	4	70	1.75	MUR4100ERLGOSCT-ND◆	5.98	44.85	95.51	1,500	257.00/M
8	SMB	100	1	40	0.875	MURS110T3GOSCT-ND◆	3.59	25.30	46.00	2,500	104.00/M
		200	2	40	0.875	MURS120T3GOSCT-ND◆	3.59	25.30	46.00	2,500	104.00/M
		400	1	35	1.25	MURS140T3GOSCT-ND◆	3.71	26.09	47.44	2,500	107.00/M
		600	1	35	1.25	MURS160T3GOSCT-ND◆	3.11	22.39	41.99	2,500	106.00/M
		200	2	40	0.95	MURS220T3GOSCT-ND◆	3.68	26.50	49.68	2,500	125.00/M
		600	2	35	1.45	MURS260T3GOSCT-ND◆	4.04	29.05	54.47	2,500	137.00/M
9	TO-220AC	200	8	16	0.975	MUR820GOS-ND◆	8.10	60.75	129.38	—	—
		200	15	200	1.05	MUR1520GOS-ND◆	11.38	87.50	183.75	—	—
		400	8	100	1.3	MUR840GOS-ND◆	10.03	77.13	161.96	—	—
		400	15	150	1.25	MUR1540GOS-ND◆	13.11	100.85	211.79	—	—
		600	15	150	1.5	MUR1560GOS-ND◆	12.72	97.88	205.54	—	—
		600	8	16	0.975	MUR860GOS-ND◆	10.03	77.13	161.96	—	—
		1,000	8	100	1.8	MUR8100EGOS-ND◆	11.38	87.50	183.75	—	—
10A	TO-220AB	200	16	100	0.975	MUR1620CTGOS-ND◆†	9.07	69.78	146.53	—	—
		600	16	100	1.5	MUR1660CTGOS-ND◆	14.63	112.50	236.25	—	—
10B	TO-220AB	200	16	100	1.2	MUR1620CTRGOS-ND◆†	12.93	99.48	208.90	—	—
12	SMC	50	1	40	0.875	MURS105T3GOSCT-ND◆	3.59	25.30	46.00	2,500	104.00/M
		200	4	75	0.89	MURS320T3GOSCT-ND◆	4.04	30.30	60.60	2,500	152.00/M
		400	3	75	1.28	MURS340T3GOSCT-ND◆	4.98	37.38	74.76	2,500	187.00/M
		600	4	75	1.28	MURS360T3GOSCT-ND◆	4.98	37.38	74.76	2,500	187.00/M

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND. † Pinning Reversed

Schottky Barrier Diodes

Fig.	Package	Reverse Voltage V_{WPRV}	Average For. Curr. I_O (A)	Power Dissipation (mW)	Peak Surge Current I_{FSM} (A)	Forward Volt. Max @ V_F (Vdc)	Forward Volt. Max @ IF (mA)	Pinning 1	Pinning 2	Pinning 3	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 250	Tape and Reel§ Qty.	Tape and Reel§ Pricing
13	SOT-23	7	—	225	—	0.6	10	A	—	K	MMBD101LT1GOSCT-ND◆	2.97	19.31	33.41	3,000	70.00/M
		30	—	200	—	0.45	1	A	—	K	MMBD301LT1GOSCT-ND◆	2.60	16.90	29.25	3,000	61.00/M
		70	—	200	—	0.5	1	A	—	K	MMBD701LT1GOSCT-ND◆	2.97	19.31	33.41	3,000	70.00/M
		40	0.12	225	0.2	0.5	10	A	K	A/K	BAS40-04LT1GOSCT-ND◆	2.85	18.53	32.06	3,000	67.00/M
		40	0.12	225	0.2	0.5	10	K	K	A	BAS40-06LT1GOSCT-ND◆	2.85	18.53	32.06	3,000	67.00/M
		40	0.12	225	0.2	0.5	10	A	—	K	BAS40LT1GOSCT-ND◆	2.61	16.97	29.36	3,000	61.00/M
		70	—	225	—	0.75	10	A	—	K	BAS70LT1GOSCT-ND◆	2.30	14.95	25.88	3,000	54.00/M
		30	0.2	225	0.6	0.4	10	K	K	A	BAT54ALT1GOSCT-ND◆	1.90	12.35	21.38	3,000	45.00/M
		30	0.2	225	0.6	0.5	30	A	K	K/A	BAT54SLT1GOSCT-ND◆	1.90	12.35	21.38	3,000	45.00/M
		30	0.2	200	0.3	0.5	30	A	—	K	BAT54LT1GOSCT-ND◆	1.66	10.79	18.68	3,000	39.00/M
14	SOT-323	30	0.2	200	0.6	0.5	30	A	K	K/A	BAT54SWT1GOSCT-ND◆	1.95	12.68	21.94	3,000	46.00/M
		30	0.2	200	0.6	0.5	30	A	—	K	BAT54WT1GOSCT-ND◆	1.78	11.57	20.03	3,000	42.00/M

Fig.	Package	Reverse Voltage V_{WPRV}	Average For. Curr. I_O (A)	Power Dissipation (mW)	Peak Surge Current I_{FSM} (A)	Forward Volt. Max @ V_F (Vdc)	Forward Volt. Max @ IF	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 250	Tape and Reel§ Qty.	Tape and Reel§ Pricing
1	SMA	10	2	425	160	0.325	1A	MBRA210LT3OSCT-ND	3.98	29.88	59.76	—	—
		10	2	425	160	0.325	1A	MBRA210LT3GOSCT-ND◆	3.80	28.47	56.94	5,000	133.00/M
		30	1	300	25	0.41	1A	MBRA130LT3GOSCT-ND◆	2.97	20.90	38.00	5,000	81.00/M
		40	1	500	30	0.55	1A	MBRA140T3GOSCT-ND◆	3.11	21.91	39.84	5,000	85.00/M
		40	3	—	100	0.45	3A	MBRA340T3GOSCT-ND◆	4.35	31.32	58.73	5,000	139.00/M
		60	1	—	40	0.72	1A	SS16T3GOSCT-ND◆	3.00	20.80	37.50	5,000	72.00/M
		60	1	—	60	0.51	1A	MBRA160T3GOSCT-ND◆	3.44	24.77	46.44	5,000	110.00/M
		20	1	—	25	0.45	1A	1N5817RLGOSCT-ND◆	3.19	22.44	40.80	5,000	87.00/M
4	DO-41	20	1	—	25	0.75	3A	1N5817GOS-ND◆†	3.19	22.44	40.80	—	—
		30	1	—	25	0.55	1A	1N5818RLGOSCT-ND◆	3.19	22.44	40.80	5,000	87.00/M
		30	1	—	25	0.875	3A	1N5818GOS-ND◆†	3.19	22.44	40.80	—	—
		40	1	—	25	0.6	1A	1N5819RLGOSCT-ND◆	3.19	22.44	40.80	5,000	87.00/M
		40	1	—	25	0.9	3A	1N5819GOS-ND◆†	3.19	22.44	40.80	—	—
		50	1	750	25	0.75	1A	MBR150RLGOSCT-ND◆	3.71	26.09	47.44	5,000	101.00/M
		60	1	750	25	0.75	1A	MBR160RLGOSCT-ND◆	3.71	26.09	47.44	5,000	101.00/M
		60	1	—	25	1.0	3A	MBR160GOS-ND◆†	3.71	26.09	47.44	—	—
		100	1	500	50	0.79	1A	MBR1100RLGOSCT-ND◆	3.65	26.28	49.28	5,000	117.00/M
		100	1	—	50	0.51	8A	MBR1100GOS-ND◆†	3.65	26.28	49.28	—	—
5A	D-PAK	20	3	1,000	75	0.6	3A	MBRD320T4GOSCT-ND◆	6.42	48.17	102.58	2,500	254.00/M
		20	6	4,000	75	0.7	3A	MBRD620CTT4GOSCT-ND◆	7.25	54.38	115.81	2,500	287.00/M
		30	3	1,000	75	0.6	3A	MBRD330T4GOSCT-ND◆	6.42	48.17	102.58	2,500	254.00/M
		35	8	3,750	75	0.51	8A	MBRD835LT4GOSCT-ND◆	5.60	41.99	89.41	2,500	222.00/M
		35	10	2,000	50	0.47	5A	MBRD1035CTLT4GOSCT-ND◆	8.87	68.23	143.27	2,500	363.00/M
		40	3	1,000	75	0.6	3A	MBRD340T4GOSCT-ND◆	5.98	44.85	95.51	2,500	237.00/M
		40	6	4,000	75	0.7	3A	MBRD640CTT4GOSCT-ND◆	7.25	54.38	115.81	2,500	287.00/M
		60	3	1,000	75	0.6	3A	MBRD360T4GOSCT-ND◆	5.98	44.85	95.51	2,500	237.00/M
		60	6	4,000	75	0.7	3A	MBRD660CTT4GOSCT-ND◆	7.25	54.38	115.81	2,500	287.00/M
5B	D-PAK	35	8	—	75	0.51	8A	MBRD835LGOS-ND◆†	5.60	41.99	89.41	—	—
7	DO-201AD	20	3	—	80	0.475	3A	1N5820RLGOSCT-ND◆	3.70	27.75	55.50	1,500	148.00/M
		30	3	—	80	0.5	3A	1N5821RLGOSCT-ND◆	3.70	27.75	55.50	1,500	148.00/M

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND. † Bulk *(Continued)*

Fig. 8 — SMB

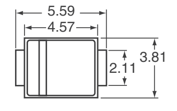

Fig. 9 — TO-220AC

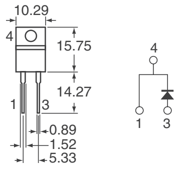

Fig. 10 — TO-220AB

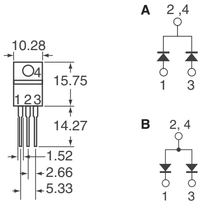

Fig. 11 — TO-247, TO-247PSI

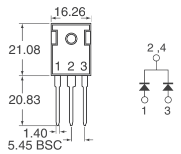

Fig. 12 — SMC

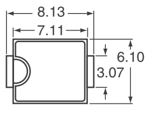

Fig. 13 — SOT-23, SOT-23S

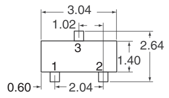

Fig. 14 — SOT-323

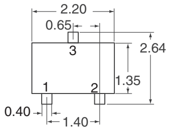

ON Semiconductor™ Schottky Barrier Diodes *(Cont.)*

Fig.	Package	Reverse Voltage V_{WPRV}	Average For. Curr. I_O (A)	Power Dissipation (mW)	Peak Surge Current I_{FSM} (A)	Forward Vo lt. Max @ V_F (Vdc)	@ IF	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape and Reel§ Qty.	Pricing
7	DO-201AD	40	3	—	80	0.525	3A	1N5822RLGOSCT-ND◆	3.70	27.75	55.50	1,500	148.00/M
		40	3	—	80	0.525	3A	1N5822GOS-ND◆†	3.70	27.75	55.50	—	—
		40	3	1,250	80	0.5	1A	MBR340GOS-ND◆†	4.16	29.92	56.09	—	—
		50	3	1,500	80	0.6	1A	MBR350RLGOSCT-ND◆	4.16	29.92	56.09	1,500	150.00/M
		60	3	1,500	80	0.6	1A	MBR360RLGOSCT-ND◆	4.16	29.92	56.09	1,500	150.00/M
		100	3	1,500	150	0.79	3A	MBR3100RLGOSCT-ND◆	5.70	42.72	85.44	1,500	228.00/M
8	SMB	20	1	525	40	0.6	1A	MBRS120T3GOSCT-ND◆	3.46	24.33	44.24	2,500	100.00/M
		30	1	525	40	0.6	1A	MBRS130T3GOSCT-ND◆	3.11	21.91	39.84	2,500	90.00/M
		30	2	250	40	0.395	1A	MBRS130LT3GOSCT-ND◆	3.11	21.91	39.84	2,500	90.00/M
		30	2	—	40	0.6	4A	MBRS230LT3GOSCT-ND◆	3.86	27.76	52.04	2,500	131.00/M
		40	1	500	40	0.6	1A	MBRS140T3GOSCT-ND◆	3.56	25.08	45.60	2,500	103.00/M
		40	2	800	25	0.43	2A	MBRS240LT3GOSCT-ND◆	3.40	24.48	45.90	2,500	116.00/M
		40	2	—	75	0.5	2A	SS24T3GOSCT-ND◆	3.56	25.04	45.52	2,500	102.00/M
		40	2	625	70	0.43	2A	MBRS2040LT3GOSCT-ND◆	3.40	24.48	45.90	2,500	116.00/M
		60	2	—	60	0.63	2A	MBRS260T3GOSCT-ND◆	4.16	29.92	56.09	2,500	141.00/M
		60	2	—	40	0.51	1A	SS26T3GOSCT-ND◆	3.71	26.14	47.52	2,500	107.00/M
		90	2	1,200	50	0.75	1A	MBRS190T3GOSCT-ND◆	3.75	27.00	50.63	2,500	128.00/M
		100	1	1,200	50	0.75	1A	MBRS1100T3GOSCT-ND◆	3.71	26.09	47.44	2,500	107.00/M
9	TO-220AC	15	25	—	150	0.45	25A	MBR2515LGOS-ND◆†	22.25	186.88	389.33	—	—
		35	7.5	1,800	150	0.84	15A	MBR735GOS-ND◆†	7.56	56.70	120.75	—	—
		35	10	—	150	0.84	20A	MBR1035GOS-ND◆†	8.10	60.75	129.38	—	—
		35	16	9,000	150	0.63	16A	MBR1635GOS-ND◆†	8.94	68.75	144.38	—	—
		45	7.5	1,800	150	0.84	15A	MBR745GOS-ND◆†	7.26	54.46	115.98	—	—
		45	10	5,500	150	0.84	20A	MBR1045GOS-ND◆†	8.10	60.75	129.38	—	—
		45	16	9,000	150	0.63	16A	MBR1645GOS-ND◆†	8.94	68.75	144.38	—	—
		60	10	—	150	0.8	10A	MBR1060GOS-ND◆†	8.10	60.75	129.38	—	—
		90	10	5,000	150	0.8	10A	MBR1090GOS-ND◆†	10.83	83.30	174.93	—	—
		100	10	5,000	150	0.8	10A	MBR10100GOS-ND◆†	10.50	80.80	169.68	—	—
10A	TO-220AB	45	15	9,000	150	0.84	15A	MBR1545CTGOS-ND◆†	7.56	56.70	120.75	—	—
		100	8	400	150	0.74	8A	MBR16100CTGOS-ND◆†	13.95	117.20	244.17	—	—
		200	20	—	150	0.9	10A	MBR20200CTGOS-ND◆†	15.99	134.30	279.78	—	—
		30	10	3,750	150	0.52	10A	MBR2030CTLGOS-ND◆†	15.99	134.30	279.78	—	—
		45	20	—	150	0.84	20A	MBR2045CTGOS-ND◆†	8.37	62.80	133.75	—	—
		60	10	6,000	150	0.85	10A	MBR2060CTGOS-ND◆†	13.60	104.65	219.77	—	—
		100	20	6,000	150	0.85	10A	MBR20100CTGOS-ND◆†	10.47	80.55	169.16	—	—
		35	12.5	5,000	150	0.47	12.5A	MBR2535CTLGOS-ND◆†	12.75	107.10	223.13	—	—
		35	30	—	150	0.82	30A	MBR2535CTGOS-ND◆†	16.06	123.55	259.46	—	—
		45	30	—	150	0.82	30A	MBR2545CTGOS-ND◆†	12.47	95.93	201.44	—	—
11	TO-247 TO-247PSI	45	60	—	500	0.62	30A	MBR6045WTGOS-ND◆†	40.43	301.07	645.15	—	—
12	SMC	20	4	2,500	80	0.5	3A	MBRS320T3GOSCT-ND◆	3.80	28.47	56.94	2,500	142.00/M
		30	4	2,500	80	0.5	3A	MBRS330T3GOSCT-ND◆	3.80	28.47	56.94	2,500	142.00/M
		40	4	2,500	80	0.525	3A	MBRS340T3GOSCT-ND◆	3.90	28.08	52.65	2,500	133.00/M
		40	5	—	190	0.5	5A	MBRS540T3GOSCT-ND◆	3.92	29.40	58.80	2,500	147.00/M
		60	4	2,500	80	0.74	3A	MBRS360T3GOSCT-ND◆	4.45	32.04	60.08	2,500	151.00/M
		100	3	—	130	0.79	3A	MBRS3100T3GOSCT-ND◆	5.70	42.72	85.44	2,500	214.00/M
15	SOT-363	30	0.2	150	0.6	0.4	10mA	MBD54DWT1GOSCT-ND◆	2.97	20.90	38.00	3,000	86.00/M
16	SOT-93	45	30	10,000	200	0.76	30A	MBR3045PTGOS-ND◆†	20.76	174.41	363.34	—	—
17	SOD-123	20	0.5	140	5.5	0.385	0.5A	MBR0520LT1GOSCT-ND◆	2.37	15.41	26.66	3,000	56.00/M
		30	0.5	175	5.5	0.43	0.5A	MBR0530T1GOSCT-ND◆	2.49	16.19	28.01	3,000	59.00/M
		30	1.0	—	5.5	0.47	1A	MBR130T1GOSCT-ND◆	2.96	20.86	37.92	3,000	85.00/M
		30	0.2	400	0.6	0.4	10mA	BAT54T1GOSCT-ND◆	2.49	16.19	28.01	3,000	59.00/M
		30	0.2	140	5.5	0.6	10mA	MMSD301T1GOSCT-ND◆	2.61	16.97	29.36	3,000	61.00/M
		40	0.5	2,250	5.5	0.62	1A	MBR0540T1GOSCT-ND◆	2.61	16.97	29.36	3,000	61.00/M
17	SOD-123FL	20	1	—	40	0.53	1A	MBR120ESFT1GOSCT-ND◆	2.96	20.86	37.92	3,000	85.00/M
		20	1	—	45	0.34	1A	MBR120VLSFT1GOSCT-ND◆	3.09	21.78	39.60	3,000	89.00/M
		20	1	—	50	0.65	3A	MBR120LSFT1GOSCT-ND◆	3.15	22.18	40.32	3,000	91.00/M
		30	1	—	40	0.38	1A	MBR130LSFT1GOSCT-ND◆	3.56	25.04	45.52	3,000	102.00/M
		40	1	—	30	0.55	1A	MBR140SFT1GOSCT-ND◆	3.71	26.09	47.44	3,000	90.00/M
18	SOD-323	30	—	200	0.6	0.4	10mA	BAT54HT1GOSCT-ND◆	2.49	16.19	28.01	3,000	59.00/M
		30	—	200	—	0.6	10mA	MMDL301T1GOSCT-ND◆	2.61	16.97	29.36	3,000	61.00/M
		40	—	200	—	0.37	1mA	RB751V40T1GOSCT-ND◆	2.61	16.97	29.36	3,000	61.00/M
19	TO-92	30	—	280	—	0.6	10mA	MBD301GOS-ND◆†	2.85	19.76	35.63	—	—
20	TO-220FP	45	25	—	150	0.7	12.5A	MBRF2545CTGOS-ND◆†	15.43	129.57	269.94	—	—
		100	20	—	150	0.85	10A	MBRF20100CTGOS-ND◆†	11.57	88.98	186.85	—	—
		200	20	—	150	0.9	10A	MBRF20200CTGOS-ND◆†	16.02	134.55	280.31	—	—
		60	15	—	260	0.71	30A	MBRF30H60CTGOS-ND◆†	12.51	96.25	202.13	—	—
21A	D2-PAK	35	12.5	7,500	150	0.55	25A	MBRB2535CTLT4GOSCT-ND◆	19.28	161.95	337.40	800	925.60
		45	30	16,000	150	0.82	30A	MBRB2545CTT4GOSCT-ND◆	16.32	137.05	285.51	800	783.20
		45	15	8,000	150	0.84	15A	MBRB1545CTT4GOSCT-ND◆	10.80	83.05	174.41	800	440.80
		100	20	13,000	150	0.85	10A	MBRB20100CTT4GOSCT-ND◆	13.67	114.85	239.27	800	656.00
		200	10	6,000	150	0.9	10A	MBRB20200CTT4OSCT-ND	28.75	241.50	503.13	800	1288.00
		200	10	6,000	150	0.9	10A	MBRB20200CTT4GOSCT-ND◆	14.63	112.50	236.25	800	597.60
21B	D2-PAK	30	40	—	300	0.46	20A	MBRB4030T4GOSCT-ND◆	23.70	176.49	378.19	800	1129.60
22	POWERMITE	10	1	—	50	0.365	1A	MBRM110LT1GOSCT-ND◆	3.44	24.77	46.44	3,000	117.00/M
		10	1	—	50	0.53	1A	MBRM110ET1GOSCT-ND◆	3.44	24.77	46.44	3,000	117.00/M
		20	1	325	50	0.45	1A	MBRM120LT1GOSCT-ND◆	3.44	24.77	46.44	3,000	117.00/M
		20	1	375	50	0.53	1A	MBRM120ET3OSCT-ND	4.06	29.20	54.74	—	—
		20	1	375	50	0.53	1A	MBRM120ET3GOSCT-ND◆	3.44	24.77	46.44	12,000	103.00/M

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND. † Bulk

(Continued)

Dimensions in mm

Fig. 15 — SOT-363

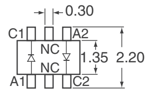

Fig. 16 — SOT-93

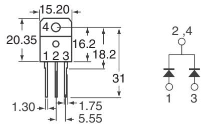

Fig. 17 — SOD-123FL, SOD-123

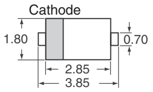

Fig. 18 — SOD-323

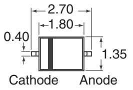

Fig. 19 — TO-92

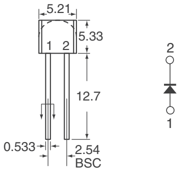

Fig. 20 — TO-220FP

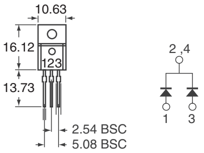

Fig. 21 — D2-PAK

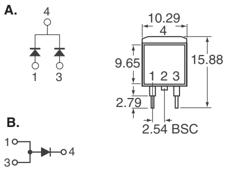

Schottky Barrier Diodes *(Cont.)*

Fig.	Package	Reverse Voltage V_{WPRV}	Average For. Curr. I_O (A)	Power Dissipation (mW)	Peak Surge Current I_{FSM} (A)	Forward Volt. Max @ V_F (Vdc)	@ IF	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape and Reel§ Qty.	Pricing
22	POWERMITE	20	1	—	50	0.65	3A	MBRM120LT3GOSCT-ND◆	3.44	24.77	46.44	12,000	103.00/M
		30	1	325	50	0.38	1A	MBRM130LT1GOSCT-ND◆	3.44	24.77	46.44	3,000	117.00/M
		40	1	475	50	0.55	1A	MBRM140T1GOSCT-ND◆	3.26	23.47	44.01	3,000	111.00/M
		40	1	—	50	0.36	0.1A	MBRM140T3GOSCT-ND◆	3.26	23.47	44.01	12,000	98.00/M
23	SOD-523	30	0.2	200	0.6	0.35	10mA	BAT54XV2T1GOSCT-ND◆	2.60	16.90	29.25	3,000	61.00/M
		30	200	200	—	0.6	200mA	RB520S30T1GOSCT-ND◆	1.54	10.01	17.33	3,000	36.00/M
		30	0.2	200	—	0.5	200mA	RB521S30T1GOSCT-ND◆	1.54	10.01	17.33	3,000	36.00/M
		40	0.03	200	—	0.37	1mA	RB751S40T1GOSCT-ND◆	1.78	11.57	20.03	3,000	42.00/M
24A	SOT-563	23	1	200	—	0.27	10mA	NSR0320XV6T1OSCT-ND	3.71	26.09	47.44	—	—
		23	1	200	—	0.27	10mA	NSR0320XV6T1GOSCT-ND◆	3.71	26.09	47.44	4,000	107.00/M
25A	SC-88	15	0.03	—	—	0.415	1mA	NSR15DW1T1OSCT-ND	2.99	21.08	38.32	—	—
		15	0.03	—	—	0.415	1mA	NSR15DW1T1GOSCT-ND◆	3.04	21.38	38.88	3,000	87.00/M
25B	SC-88	15	0.03	—	—	0.415	1mA	NSR15TW1T2GOSCT-ND◆	3.56	25.63	48.06	3,000	121.00/M

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND. † Bulk

Switching Diodes

Fig.	Package	Working Peak Rev. Volt. V_{RWM}	Average Rectified For. Current I_F (mA)	Power Dissi-pation (mW)	Peak Surge Current I_{FM} (mA)	Maximum Instantaneous Forward Volt. Drop (V_F)	I_F (mAdc)	Cut Tape Pinning 1	2	3	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape and Reel§ Qty.	Pricing
13	SOT-23, SOT-23S	7	—	225	—	0.6	10	A	K	K/A	MMBD352LT1GOSCT-ND◆	3.11	21.58	38.91	3,000	83.00/M
		30	200	225	—	0.8	100	A	A	K	BAT54CLT1GOSCT-ND◆	1.90	12.35	21.38	3,000	45.00/M
		30	150	225	450	1.2	100	A	A	K	MMBD2837LT1GOSCT-ND◆	2.10	11.79	19.65	3,000	35.00/M
		50	100	225	300	1.2	100	A	A	K	MMBD2838LT1GOSCT-ND◆	2.10	11.79	19.65	3,000	35.00/M
		50	200	225	500	1	100	A	A	K	BAV74LT1GOSCT-ND◆	1.44	8.10	13.50	3,000	24.00/M
		70	200	225	500	0.7	1	A	—	K	MMBD6050LT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
		70	200	225	500	0.7	1	A	A	K	MMBD6100LT1GOSCT-ND◆	2.10	11.79	19.65	3,000	35.00/M
		70	215	225	500	1	10	A	K	K/A	BAV199LT1GOSCT-ND◆	2.37	15.41	26.66	3,000	56.00/M
		70	200	225	500	0.8	10	A	A	K	BAV70LT1GOSCT-ND◆	1.41	7.92	13.20	3,000	24.00/M
		70	215	225	500	0.8	10	A	K	K/A	BAV99LT1GOSCT-ND◆	1.41	7.92	13.20	3,000	24.00/M
		70	—	225	—	1	15	A	K	K/A	BAS70-04LT1GOSCT-ND◆	2.85	18.53	32.06	3,000	67.00/M
		70	200	225	500	0.8	10	K	K	A	BAW56LT1GOSCT-ND◆	1.44	8.10	13.50	3,000	24.00/M
		70	100	225	—	0.8	10	—	K	A	BAL99LT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
		75	150	225	—	1	10	A	A	K	MMBD2837LT1OSCT-ND	2.10	11.79	19.65	3,000	34.00/M
		75	100	225	—	1	10	A	A	K	MMBD2838LT1OSCT-ND	2.10	11.79	19.65	3,000	34.00/M
		75	100	225	—	1.2	100	K	K	A	MMBD2836LT1GOSCT-ND◆	2.10	11.79	19.65	3,000	35.00/M
		75	200	225	500	1	10	A	—	K	BAS116LT1GOSCT-ND◆	2.14	13.91	24.08	3,000	50.00/M
		75	200	225	500	0.8	10	A	—	K	BAS16LT1GOSCT-ND◆	1.44	8.10	13.50	3,000	24.00/M
		100	200	225	500	1	10	A	—	K	MMBD914LT1GOSCT-ND◆	1.44	8.10	13.50	3,000	24.00/M
		100	200	225	500	0.7	1	A	K	K/A	MMBD7000LT1GOSCT-ND◆	1.90	10.71	17.85	3,000	32.00/M
		100	200	225	500	1	10	A	—	K	MMBD914LT3GOSCT-ND◆	1.44	8.10	13.50	10,000	18.00/M
		120	200	225	625	1	100	A	—	K	BAS19LT1GOSCT-ND◆	1.44	8.10	13.50	3,000	24.00/M
		200	200	225	625	1	100	A	—	K	BAS20LT1GOSCT-ND◆	1.44	8.10	13.50	3,000	24.00/M
		250	200	225	625	1	100	A	—	K	BAS21LT1GOSCT-ND◆	1.44	8.10	13.50	3,000	24.00/M
		250	225	225	625	1	100	A	K	K/A	BAS21SLT1GOSCT-ND◆	2.10	11.79	19.65	3,000	35.00/M
14	SOT-323	30	200	200	—	0.8	100	A	A	K	BAT54CWT1GOSCT-ND◆	1.95	12.68	21.94	3,000	46.00/M
		40	100	150	500	1.2	100	A	—	K	M1MA141KT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
		70	200	200	500	0.8	10	A	A	K	BAV70WT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
		70	215	200	500	0.8	10	K	A	K/A	BAV99RWT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
		70	215	200	500	0.855	10	A	K	K/A	BAV99WT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
		70	200	200	500	0.8	10	K	—	A	BAW56WT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
		75	200	200	500	0.8	10	A	—	K	BAS16WT1GOSCT-ND◆	1.76	9.90	16.50	3,000	30.00/M
17	SOD-123	100	200	225	500	1	10	—	—	—	MMSD4148T1GOSCT-ND◆	2.24	12.60	21.00	3,000	38.00/M
		100	200	225	500	1	10	—	—	—	MMSD914T1GOSCT-ND◆	2.29	12.87	21.45	3,000	39.00/M
18	SOD-323	75	200	200	500	0.8	10	—	—	—	BAS16HT1GOSCT-ND◆	2.10	11.79	19.65	3,000	35.00/M
		100	200	200	500	1	10	—	—	—	MMDL914T1GOSCT-ND◆	2.10	11.79	19.65	3,000	35.00/M
		250	200	200	625	1	100	—	—	—	BAS21HT1GOSCT-ND◆	1.66	10.79	18.68	3,000	39.00/M
		250	200	200	625	1	200	—	—	—	BAS21AHT1GOSCT-ND◆ ***NEW!***	2.38	13.41	22.35	3,000	40.00/M
23	SOD-523	75	200	120	500	0.715	1	K	A	—	BAS16XV2T1GOSCT-ND◆	2.27	12.78	21.30	3,000	38.00/M
		100	200	200	500	1.2	100	K	A	—	1SS400T1GOSCT-ND◆	1.78	11.57	20.03	3,000	42.00/M
		100	200	120	500	1	10	K	A	—	NSD914XV2T1GOSCT-ND◆	2.80	18.20	31.50	3,000	66.00/M
24B	SOT-563	75	200	357	500	0.715	1	—	—	—	BAS16DXV6T1OSCT-ND	2.97	20.90	38.00	—	—
		75	200	357	500	0.715	1	—	—	—	BAS16DXV6T1GOSCT-ND◆	2.64	18.30	33.00	4,000	70.00/M
24C	SOT-563	80	100	357	300	1.2	100	—	—	—	NSDEMP11XV6T1OSCT-ND	3.11	21.91	39.84	—	—
		80	100	357	300	1.2	100	—	—	—	NSDEMP11XV6T1GOSCT-ND◆	2.84	19.71	35.53	4,000	76.00/M
25C	SC-88	85	100	300	240	1.2	100	—	—	—	HN2D02FUTW1T1GOSCT-ND◆	3.11	21.58	38.91	3,000	83.00/M
26	SOT-416, SC-75	80	100	150	2,000	1.2	100	K	K	A	DAP222OSCT-ND	2.10	11.79	19.65	—	—
		80	100	150	2,000	1.2	100	K	K	A	DAP222GOSCT-ND◆	1.81	10.17	16.95	3,000	31.00/M
27	SOT-353	250	200	385	625	1	100	—	—	—	BAS21DW5T1GOSCT-ND◆	2.00	13.00	22.50	3,000	47.00/M

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND.

Dimensions in mm

Fig. 22 — POWERMITE

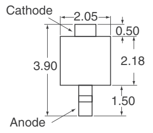

Fig. 23 — SOD-523

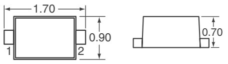

Fig. 24 — SOT-563

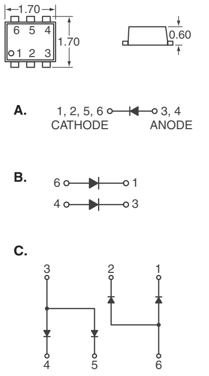

Fig. 25 — SOT-363, SC-88

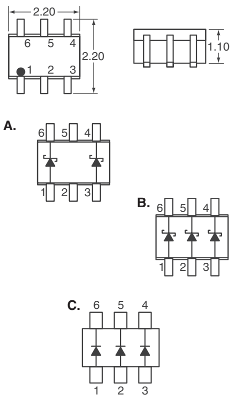

Fig. 26 — SOT-416, SC-75

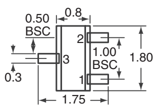

Fig. 27 — SOT-353

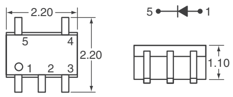

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

ON Semiconductor™

Triacs

Designed primarily for power switching. The gate sensitivity of these triacs permits the use of economical transistorized or integrated circuit control circuits, and it enhances their use in low-power phase control and load-switching applications.

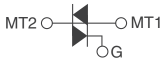

TO-225AA

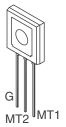

TO-92

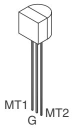

TO-220AB

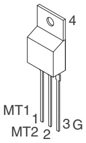

D-PAK

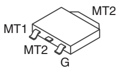

SOT-223

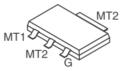

DPAK-3

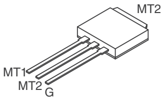

Sensitive Gate Triacs — *RoHS Compliant*

Package	VDRM (V)	On State RMS Current IT (RMS)	Peak Surge Current ITSM (A)	Peak Gate Power PGM (W)	Application	Digi-Key Part No.	Price Each 1	10	100	250	Tape and Reel† Qty.	Pricing
TO-225AA	200	4A	30	10	Full-Wave ac Control	2N6071AGOS-ND	.69	.56	.42	.36	—	—
	200	4A	30	10	Full-Wave ac Control	2N6071BGOS-ND	.69	.56	.42	.36	—	—
	400	4A	30	10	Full-Wave ac Control	2N6073AGOS-ND	.69	.56	.42	.36	—	—
	400	4A	30	10	Full-Wave ac Control	2N6073BGOS-ND	.69	.56	.42	.36	—	—
	600	4A	30	10	Full-Wave ac Control	2N6075AGOS-ND	.69	.56	.42	.36	—	—
	600	4A	30	10	Full-Wave ac Control	2N6075BGOS-ND	.69	.56	.42	.36	—	—
TO-92	200	0.6A	8	5	MPU Interface	MAC97A4GOS-ND	.40	.31	.23	.17	—	—
	400	0.6A	8	5	MPU Interface	MAC97A6GOS-ND	.40	.31	.23	.17	—	—
	600	0.6A	8	5	MPU Interface	MAC97A8GOS-ND	.42	.33	.24	.18	—	—
TO-220AB	400	8A	80	20	Consumer	MAC228A6GOS-ND	1.50	1.30	1.00	.84	—	—
	600	8A	80	20	Consumer	MAC228A8GOS-ND	1.50	1.30	1.00	.84	—	—
	600	8A	70	16	Full-Wave ac Control	MAC8SMGOS-ND	1.21	1.06	.81	.69	—	—
	600	12A	120	20	Full-Wave ac Control	BTB12-600BW3GOS-ND ***NEW!***	1.07	.93	.72	.61	—	—
	600	12A	120	20	Full-Wave ac Control	BTB12-600CW3GOS-ND ***NEW!***	1.07	.93	.72	.61	—	—
	600	15A	120	20	Full-Wave ac Control	MAC15SMGOS-ND	1.40	1.22	.94	.79	—	—
	800	8A	80	20	Consumer	MAC228A10GOS-ND	1.54	1.34	1.03	.87	—	—
	800	12A	90	16	Full-Wave ac Control	MAC12SNGOS-ND	1.45	1.26	.97	.82	—	—
	800	12A	120	20	Full-Wave ac Control	BTB12-800CW3GOS-ND ***NEW!***	1.16	1.01	.77	.65	—	—
	800	12A	120	20	Full-Wave ac Control	BTB12-800BW3GOS-ND ***NEW!***	1.16	1.01	.77	.65	—	—
D-PAK	600	4A	40	0.5	Consumer	MAC4DHMT4GOSCT-ND	—	.67	.50	.43	2,500	262.00/M
SOT-223	200	0.8A	8	5	MPU Interface	MAC08BT1GOSCT-ND	—	.92	.69	.56	1,000	171.00
	600	0.8A	8	5	MPU Interface	MAC08MT1GOSCT-ND	—	.92	.69	.56	1,000	171.00

† For Tape and Reel part number, change CT-ND to TR-ND.

Standard Triacs

Package	VDRM (V)	On State RMS Current IT (RMS)	Peak Surge Current ITSM (A)	Peak Gate Power PGM (W)	Application	Digi-Key Part No.	Price Each 1	10	100	250	Tape and Reel† Qty.	Pricing
TO-220AB	400	8A	80	16	Full-Wave ac Control	MAC8DGOS-ND◆	1.12	.98	.75	.63	—	—
		8A	80	16	Full-Wave ac Control	MAC9DGOS-ND◆	1.12	.98	.75	.63	—	—
		12A	100	16	Full-Wave ac Control	MAC12DGOS-ND◆	1.12	.98	.75	.63	—	—
		15A	150	20	Full-Wave ac Control	MAC15A6OS-ND	1.84	1.60	1.23	1.03	—	—
		15A	150	20	Full-Wave ac Control	MAC15A6GOS-ND◆	1.57	1.32	1.11	.92	—	—
		16A	150	20	Full-Wave ac Control	MAC16DGOS-ND◆	1.40	1.22	.94	.79	—	—
	600	8A	80	16	Full-Wave ac Control	MAC8MGOS-ND◆	1.12	.98	.75	.63	—	—
		15A	150	20	Full-Wave ac Control	MAC15A8GOS-ND◆	1.57	1.32	1.11	.92	—	—
		16A	150	20	Full-Wave ac Control	MAC16MGOS-ND◆	1.40	1.22	.94	.79	—	—
		12A	100	20	Full-Wave ac Control	2N6344AGOS-ND◆	1.57	1.32	1.11	.92	—	—
		8A	100	20	Full-Wave ac Control	2N6344GOS-ND◆	1.87	1.62	1.25	1.05	—	—
		12A	100	20	Full-Wave ac Control	2N6348AGOS-ND◆	1.57	1.32	1.11	.92	—	—
	800	8A	80	16	Full-Wave ac Control	MAC8NGOS-ND◆	1.17	1.02	.78	.66	—	—
		8A	80	16	Full-Wave ac Control	MAC9NGOS-ND◆	1.17	1.02	.78	.66	—	—
		12A	100	16	Full-Wave ac Control	MAC12NGOS-ND◆	1.17	1.02	.78	.66	—	—
		12A	100	20	Full-Wave ac Control	MAC212A10GOS-ND◆	1.65	1.38	1.16	.97	—	—
		15A	150	20	Full-Wave ac Control	MAC15A10GOS-ND◆	1.57	1.32	1.11	.92	—	—
		16A	150	20	Full-Wave ac Control	MAC16CNGOS-ND◆	1.59	1.38	1.06	.89	—	—
		12A	100	20	Full-Wave ac Control	2N6349AGOS-ND◆	1.57	1.32	1.11	.92	—	—
DPAK-3	800	4A	40	0.5	Consumer	MAC4DCN-1GOS-ND◆	.85	.69	.52	.44	—	—
DPAK	600	4A	40	0.5	Consumer	MAC4DSMT4GOSCT-ND◆	.83	.67	.50	.43	2,500	262.00/M

† For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SCRs

	TO-220AB	TO-92	TO-225AA	SOT-223	D-PAK
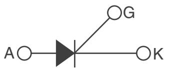	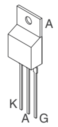	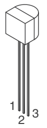 **A** 1. K 2. G 3. A **B** 1. A 2. G 3. K	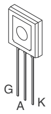	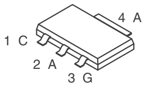	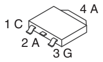

Package	VDRM (V)	On State RMS Current IT (RMS)	Peak Surge Current ITSM (A)	Peak Gate Power PGM (W)	Application	Digi-Key Part No.	Price Each				Tape and Reel§	
							1	10	100	250	Qty.	Pricing
TO-220AB	50	12A	100	20	Over Voltage Protection	MCR68-2GOS-ND◆	1.73	1.50	1.16	.97	—	—
	100	25A	300	20	Over Voltage Protection	MCR69-3GOS-ND◆	1.73	1.50	1.16	.97	—	—
	400	8A	100	5	Industrial and Consumer	MCR72-006OS-ND	1.40	1.22	.94	.79	—	—
	800	10A	100	5	Industrial and Consumer	MCR310-010OS-ND	1.50	1.25	1.05	.88	—	—
	50	25A	250	20	Half-Wave ac Control	2N6504GOS-ND◆	1.73	1.50	1.16	.97	—	—
	100	25A	250	20	Half-Wave ac Control	2N6505GOS-ND◆	1.73	1.50	1.16	.97	—	—
	100	12A	100	20	Half-Wave ac Control	2N6395GOS-ND◆	1.50	1.30	1.00	.84	—	—
	200	8A	100	5	Half-Wave ac Control	MCR218-4GOS-ND◆	1.50	1.30	1.00	.84	—	—
	400	12A	100	20	Half-Wave ac Control	2N6397GOS-ND◆	1.50	1.30	1.00	.84	—	—
	400	16A	160	20	Half-Wave ac Control	2N6403GOS-ND◆	1.73	1.50	1.16	.97	—	—
	400	25A	250	20	Half-Wave ac Control	2N6507GOS-ND◆	1.73	1.50	1.16	.97	—	—
	400	12A	100	5	Half-Wave ac Control	MCR12LDGOS-ND◆	1.26	1.10	.85	.71	—	—
	600	8A	80	5	Half-Wave ac Control	MCR8SMGOS-ND◆	1.08	.94	.72	.61	—	—
	600	10A	160	20	Half-Wave ac Control	2N6404GOS-ND◆	1.73	1.50	1.16	.97	—	—
	600	25A	250	20	Half-Wave ac Control	2N6508OS-ND	1.62	1.41	1.08	.91	—	—
	600	25A	250	20	Half-Wave ac Control	2N6508GOS-ND◆	1.73	1.50	1.16	.97	—	—
	800	12A	100	20	Half-Wave ac Control	2N6399GOS-ND◆	1.59	1.38	1.06	.89	—	—
	800	16A	160	20	Half-Wave ac Control	2N6405GOS-ND◆	1.73	1.50	1.16	.97	—	—
	800	16A	160	5	Half-Wave ac Control	MCR16NGOS-ND◆	1.17	1.02	.78	.66	—	—
	800	25A	300	20	Half-Wave ac Control	MCR25NGOS-ND◆	1.69	1.41	1.19	.99	—	—
	800	25A	250	20	Half-Wave ac Control	2N6509GOS-ND◆	1.73	1.50	1.16	.97	—	—
TO-92 (A)	30	0.8A	10	0.1	High Volume Consumer	2N5060GOS-ND◆	.40	.31	.23	.17	—	—
	60	0.8A	10	0.1	High Volume Consumer	2N5061RLRAOSCT-ND	—	.35	.26	.19	2,000	126.00/M
	60	0.8A	10	0.1	High Volume Consumer	2N5061RLRAGOSCT-ND◆	—	.31	.23	.17	2,000	111.00/M
	60	0.8A	10	0.1	High Volume Consumer	2N5061GOS-ND◆	.40	.31	.23	.17	—	—
	100	0.8A	10	0.1	High Volume Consumer	2N5062RLRAGOSCT-ND◆	—	.31	.23	.17	2,000	111.00/M
	200	0.8A	10	0.1	High Volume Consumer	2N5064RLRAGOSCT-ND◆	—	.31	.23	.17	2,000	111.00/M
	200	0.8A	10	0.1	High Volume Consumer	2N5064GOS-ND◆	.40	.31	.23	.17	—	—
	400	0.8A	10	0.1	High Volume Consumer	MCR100-6RLOSCT-ND	—	.35	.26	.19	2,000	126.00/M
	400	0.8A	10	0.1	High Volume Consumer	MCR100-6RLGOSCT-ND◆	.46	.35	.24	.18	2,000	109.00/M
	400	0.8A	10	0.1	High Volume Consumer	MCR100-6GOS-ND◆	.46	.35	.24	.18	—	—
	400	1.5A	15	0.5	Low-Power Switching	MCR22-6RLRAOSCT-ND	—	.38	.28	.21	—	—
	400	1.5	15	0.5	Low-Power Switching	MCR22-6RLRAGOSCT-ND◆	.45	.35	.25	.19	2,000	124.00/M
	600	1.5A	15	0.5	Low-Power Switching	MCR22-8RL1GOSCT-ND◆	.48	.37	.27	.20	2,000	132.00/M
TO-92 (B)	40	—	5	0.3	High Volume Consumer	2N6027RLRAGOSCT-ND◆	—	.35	.26	.19	2,000	125.00/M
	40	—	5	0.3	High Volume Consumer	2N6027GOS-ND◆	.45	.35	.26	.19	—	—
	40	—	5	0.3	High Volume Consumer	2N6028RLRAGOSCT-ND◆	—	.35	.26	.19	2,000	125.00/M
TO-225AA	200	4A	20	0.5	High Volume Consumer	C106BOS-ND	.58	.47	.36	.28	—	—
	400	4A	20	0.5	High Volume Consumer	C106DGOS-ND◆	.59	.48	.36	.29	—	—
	600	4A	20	0.5	High Volume Consumer	C106MGOS-ND◆	.59	.48	.36	.29	—	—
SOT-223	200	0.8A	8	0.1	Line-Powered Consumer	MCR08BT1GOSCT-ND◆	.53	.43	.33	.26	1,000	171.00
D-PAK	400	4A	25	0.5	Industrial and Consumer	MCR716T4GOSCT-ND◆	.91	.73	.55	.47	2,500	287.00/M
	600	12A	100	5	Industrial and Consumer	MCR12DSMT4OSCT-ND	—	1.30	1.00	.84	—	—
	600	12A	100	5	Industrial and Consumer	MCR12DSMT4GOSCT-ND◆	1.12	.90	.68	.58	2,500	355.00/M
	800	12A	100	5	Industrial and Consumer	MCR12DCNT4OSCT-ND	—	1.30	1.00	.84	—	—
	800	12A	100	5	Industrial and Consumer	MCR12DCNT4GOSCT-ND◆	1.12	.90	.68	.58	—	—

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

COMCHIP
SMD Diodes Specialist

Diodes

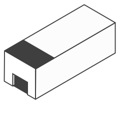

Comchip Technology is the leading manufacturer to standardize LEAD-FREE and LEAD-LESS diode packaging in SOD-523F and SOD-323F sizes. Comchip's diodes are ideal for personal computers, digital cameras, PDAs, pagers, wireless networking and portable devices.

Small Single Diodes

V_R (V)	I_O (mA)	Package	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Comchip Part No.
				1	10	100	Qty.	Pricing	
Switching Diodes									
75	150	SOD-323F (1005)	641-1004-1-ND	.26	1.50	9.75	4,000	35.00/M	CDSF4148
75	150	0503 (1308)	641-1215-1-ND	.43	2.50	16.25	5,000	50.00/M	CDSER4148
75	150	1005 (2512)	641-1216-1-ND	.26	1.50	9.75	4,000	35.00/M	CDSFR4148
75	150	SOD-523F (0603)	641-1217-1-ND	.31	1.80	11.70	4,000	42.00/M	CDSUR4148
75	150	SOD-523F (0603)	641-1001-1-ND	.31	1.80	11.70	4,000	42.00/M	CDSU4148
80	100	SOD-523F (0603)	641-1002-1-ND	.26	1.50	9.75	4,000	35.00/M	CDSU101A
80	100	SOD-523F (0603)	641-1003-1-ND	.26	1.50	9.75	4,000	35.00/M	CDSU400
80	100	SOD-723	641-1141-1-ND	.54	3.20	20.80	3,000	64.00/M	CDSP400-G
80	100	SOD-323F (1005)	641-1005-1-ND	.26	1.50	9.75	4,000	35.00/M	CDSF355
Schottky Diodes									
20	1000	DO-214AC (SMA)	641-1255-1-ND▲	.70	5.60	42.00	5,000	196.00/M	CDBA120SL-G
20	500	1005 (2512)	641-1133-1-ND	.46	3.50	25.20	4,000	119.00/M	CDBFR0520
20	1000	DO-214AC (SMA)	641-1014-1-ND	.34	2.00	13.00	5,000	40.00/M	CDBA120-G
20	1000	DO-214AA (SMB)	641-1105-1-ND	.55	3.75	26.00	3,000	90.00/M	CDBB120-G
20	2000	DO-214AA (SMB)	641-1110-1-ND	.52	4.02	28.91	3,000	137.00/M	CDBB220-G
20	2000	DO-214AC (SMA)	641-1095-1-ND	.43	3.30	23.76	5,000	106.00/M	CDBA220-G
20	3000	DO-214AA (SMB)	641-1115-1-ND	.59	4.75	35.64	3,000	178.00/M	CDBB320-G
20	3000	DO-214AB (SMC)	641-1120-1-ND	.50	4.00	30.00	3,000	150.00/M	CDBC320-G
20	3000	DO-214AC (SMA)	641-1100-1-ND	.62	4.79	34.45	5,000	134.00/M	CDBA320-G
20	5000	DO-214AB (SMC)	641-1125-1-ND	.75	6.02	45.14	3,000	238.00/M	CDBC520-G
30	30	SOD-723	641-1134-1-ND	.40	2.94	20.68	3,000	85.00/M	CDBP00340-G
30	100	SOD-523F (0603)	641-1007-1-ND	.39	2.63	18.20	4,000	70.00/M	CDBU0130
30	100	SOD-323F (1005)	641-1011-1-ND	.39	2.63	18.20	4,000	70.00/M	CDBF0130
30	100	SOD-723	641-1135-1-ND	.40	2.94	20.68	3,000	85.00/M	CDBP0130L-G
30	100	SOD-723	641-1136-1-ND	.40	2.94	20.68	3,000	85.00/M	CDBP0130R-G
30	200	SOD-323F (1005)	641-1012-1-ND	.39	2.63	18.20	4,000	70.00/M	CDBF0230
30	200	SOD-523F (0603)	641-1008-1-ND	.39	2.63	18.20	4,000	70.00/M	CDBU0230
30	200	SOD-523F (0603)	641-1139-1-ND	.77	5.25	36.40	4,000	119.00/M	CDBUR0230L
30	200	SOD-523F (0603)	641-1140-1-ND	.77	5.25	36.40	4,000	119.00/M	CDBUR0230R
30	200	1005 (2512)	641-1131-1-ND	.77	5.25	36.40	4,000	119.00/M	CDBFR0230L
30	200	1005 (2512)	641-1132-1-ND	.77	5.25	36.40	4,000	119.00/M	CDBFR0230R
30	200	1005 (2512)	641-1208-1-ND	.39	2.63	18.20	4,000	70.00/M	CDBFR0230L
40	30	SOD-523F (0603)	641-1006-1-ND	.33	2.25	15.60	4,000	60.00/M	CDBU00340
40	30	SOD-323F (1005)	641-1010-1-ND	.33	2.25	15.60	4,000	60.00/M	CDBF00340
40	100	0503 (1308)	641-1207-1-ND	.38	2.81	19.80	5,000	77.00/M	CDBER0140R
40	100	SOD-523F (0603)	641-1137-1-ND	.77	5.25	36.40	4,000	119.00/M	CDBUR0140L
40	100	SOD-523F (0603)	641-1138-1-ND	.77	5.25	36.40	4,000	119.00/M	CDBUR0140R
40	100	1005 (2512)	641-1129-1-ND	.77	5.25	36.40	4,000	119.00/M	CDBFR0140L
40	100	1005 (2512)	641-1130-1-ND	.77	5.25	36.40	4,000	119.00/M	CDBFR0140R
40	200	SOD-323F (1005)	641-1013-1-ND	.39	2.63	18.20	4,000	70.00/M	CDBF0240
40	200	SOD-523F (0603)	641-1009-1-ND	.39	2.63	18.20	4,000	70.00/M	CDBU0240
40	1000	DO-214AA (SMB)	641-1106-1-ND	.55	3.75	26.00	3,000	90.00/M	CDBB140-G
40	1000	DO-214AC (SMA)	641-1015-1-ND	.43	2.50	16.25	5,000	50.00/M	CDBA140-G
40	2000	DO-214AA (SMB)	641-1111-1-ND	.52	4.02	28.91	3,000	137.00/M	CDBB240-G
40	2000	DO-214AC (SMA)	641-1096-1-ND	.45	3.47	24.95	5,000	111.00/M	CDBA240-G
40	3000	DO-214AA (SMB)	641-1116-1-ND	.59	4.75	35.64	3,000	178.00/M	CDBB340-G
40	3000	DO-214AB (SMC)	641-1121-1-ND	.50	4.00	30.00	3,000	150.00/M	CDBC340-G
40	3000	DO-214AC (SMA)	641-1101-1-ND	.62	4.79	34.45	5,000	134.00/M	CDBA340-G
40	5000	DO-214AB (SMC)	641-1126-1-ND	.75	6.02	45.14	3,000	238.00/M	CDBC540-G
60	1000	DO-214AA (SMB)	641-1107-1-ND	.55	3.75	26.00	3,000	90.00/M	CDBB160-G
60	1000	DO-214AC (SMA)	641-1092-1-ND	.39	2.64	18.30	5,000	63.00/M	CDBA160-G
60	2000	DO-214AA (SMB)	641-1112-1-ND	.63	4.84	34.85	3,000	145.00/M	CDBB260-G
60	2000	DO-214AC (SMA)	641-1097-1-ND	.48	3.69	26.53	5,000	118.00/M	CDBA260-G
60	3000	DO-214AA (SMB)	641-1117-1-ND	.59	4.75	35.64	3,000	178.00/M	CDBB360-G
60	3000	DO-214AB (SMC)	641-1122-1-ND	.72	5.72	42.90	3,000	215.00/M	CDBC360-G
60	3000	DO-214AC (SMA)	641-1102-1-ND	.63	5.06	37.95	5,000	177.00/M	CDBA360-G
60	5000	DO-214AB (SMC)	641-1127-1-ND	.79	6.30	47.25	3,000	249.00/M	CDBC560-G
80	1000	DO-214AA (SMB)	641-1108-1-ND	.51	3.75	26.40	3,000	102.00/M	CDBB180-G
80	1000	DO-214AC (SMA)	641-1093-1-ND	.49	3.58	25.17	5,000	97.00/M	CDBA180-G
80	2000	DO-214AA (SMB)	641-1113-1-ND	.63	4.84	34.85	3,000	145.00/M	CDBB280-G
80	2000	DO-214AC (SMA)	641-1098-1-ND	.49	3.74	26.93	5,000	120.00/M	CDBA280-G
80	3000	DO-214AA (SMB)	641-1118-1-ND	.69	5.50	41.25	3,000	206.00/M	CDBB380-G
80	3000	DO-214AB (SMC)	641-1123-1-ND	.72	5.72	42.90	3,000	215.00/M	CDBC380-G
80	3000	DO-214AC (SMA)	641-1103-1-ND	.63	5.06	37.95	5,000	177.00/M	CDBA380-G
80	5000	DO-214AB (SMC)	641-1128-1-ND	.79	6.30	47.25	3,000	249.00/M	CDBC580-G
100	1000	DO-214AA (SMB)	641-1104-1-ND	.51	3.75	26.40	3,000	102.00/M	CDBB1100-G
100	1000	DO-214AC (SMA)	641-1091-1-ND	.50	3.64	25.65	5,000	99.00/M	CDBA1100-G
100	2000	DO-214AA (SMB)	641-1109-1-ND	.55	4.40	33.00	3,000	165.00/M	CDBB2100-G
100	2000	DO-214AC (SMA)	641-1094-1-ND	.55	4.25	30.60	5,000	136.00/M	CDBA2100-G
100	3000	DO-214AA (SMB)	641-1114-1-ND	.69	5.50	41.25	3,000	206.00/M	CDBB3100-G
100	3000	DO-214AB (SMC)	641-1119-1-ND	.72	5.72	42.90	3,000	215.00/M	CDBC3100-G
100	3000	DO-214AC (SMA)	641-1099-1-ND	.67	5.37	40.26	5,000	188.00/M	CDBA3100-G
100	5000	DO-214AB (SMC)	641-1124-1-ND	.79	6.30	47.25	3,000	249.00/M	CDBC5100-G
General Purpose Rectifier Diodes									
50	1000	DO-214AC (SMA)	641-1016-1-ND	.31	1.80	11.70	5,000	36.00/M	CGRA4001-G
50	2000	DO-214AA (SMB)	641-1165-1-ND	.40	2.72	18.88	3,000	73.00/M	CGRB201-G
50	3000	DO-214AA (SMB)	641-1168-1-ND	.50	3.85	27.72	3,000	131.00/M	CGRB301-G
50	3000	DO-214AB (SMC)	641-1171-1-ND	.77	5.64	39.69	3,000	135.00/M	CGRC301-G
50	5000	DO-214AB (SMC)	641-1174-1-ND	.50	3.96	29.70	3,000	149.00/M	CGRC501-G
400	1000	DO-214AC (SMA)	641-1017-1-ND	.31	1.80	11.70	5,000	36.00/M	CGRA4004-G
400	2000	DO-214AA (SMB)	641-1166-1-ND	.40	2.72	18.88	3,000	73.00/M	CGRB204-G
400	3000	DO-214AA (SMB)	641-1169-1-ND	.50	3.85	27.72	3,000	131.00/M	CGRB304-G
400	3000	DO-214AB (SMC)	641-1172-1-ND	.77	5.64	39.69	3,000	135.00/M	CGRC304-G
400	5000	DO-214AB (SMC)	641-1175-1-ND	.50	3.96	29.70	3,000	149.00/M	CGRC504-G
1000	1000	DO-214AC (SMA)	641-1018-1-ND	.31	1.80	11.70	5,000	36.00/M	CGRA4007-G
1000	2000	DO-214AA (SMB)	641-1167-1-ND	.40	2.72	18.88	3,000	73.00/M	CGRB207-G
1000	3000	DO-214AA (SMB)	641-1170-1-ND	.50	3.85	27.72	3,000	131.00/M	CGRB307-G
1000	3000	DO-214AB (SMC)	641-1173-1-ND	.77	5.64	39.69	3,000	135.00/M	CGRC307-G
1000	5000	DO-214AB (SMC)	641-1176-1-ND	.50	3.96	29.70	3,000	149.00/M	CGRC507-G
Fast Recovery Rectifier Diodes									
100	2000	DO-214AC (SMA)	641-1145-1-ND	.59	4.57	32.87	5,000	128.00/M	CEFA202-G
200	1000	DO-214AA (SMB)	641-1147-1-ND	.50	3.96	29.70	3,000	149.00/M	CEFB103-G
200	1000	DO-214AC (SMA)	641-1142-1-ND	.54	4.13	29.70	5,000	132.00/M	CEFA103-G
200	2000	DO-214AA (SMB)	641-1150-1-ND	.63	5.06	37.95	3,000	190.00/M	CEFB203-G
200	2000	DO-214AC (SMA)	641-1146-1-ND	.59	4.57	32.87	5,000	128.00/M	CEFA203-G
200	3000	DO-214AB (SMC)	641-1153-1-ND	.84	6.73	50.49	3,000	266.00/M	CEFC303-G
400	1000	DO-214AA (SMB)	641-1148-1-ND	.50	3.96	29.70	3,000	149.00/M	CEFB104-G
400	1000	DO-214AC (SMA)	641-1143-1-ND	.54	4.13	29.70	5,000	132.00/M	CEFA104-G
400	1000	DO-214AC (SMA)	641-1156-1-ND	.46	3.14	21.74	5,000	75.00/M	CFRA104-G
400	2000	DO-214AA (SMB)	641-1151-1-ND	.63	5.06	37.95	3,000	190.00/M	CEFB204-G
400	2000	DO-214AA (SMB)	641-1159-1-ND	.41	3.14	22.57	3,000	107.00/M	CFRB204-G
400	3000	DO-214AB (SMC)	641-1154-1-ND	.84	6.73	50.49	3,000	266.00/M	CEFC304-G
400	3000	DO-214AB (SMC)	641-1162-1-ND	.66	5.28	39.60	3,000	198.00/M	CFRC304-G
600	1000	DO-214AA (SMB)	641-1149-1-ND	.50	3.96	29.70	3,000	149.00/M	CEFB105-G
600	1000	DO-214AC (SMA)	641-1144-1-ND	.61	4.68	33.66	5,000	131.00/M	CEFA105-G
600	1000	DO-214AC (SMA)	641-1157-1-ND	.46	3.14	21.74	5,000	75.00/M	CFRA105-G
600	2000	DO-214AA (SMB)	641-1152-1-ND	.63	5.06	37.95	3,000	190.00/M	CEFB205-G
600	2000	DO-214AA (SMB)	641-1160-1-ND	.43	3.30	23.76	3,000	112.00/M	CFRB205-G
600	3000	DO-214AB (SMC)	641-1155-1-ND	.84	6.73	50.49	3,000	266.00/M	CEFC305-G
600	3000	DO-214AB (SMC)	641-1163-1-ND	.66	5.28	39.60	3,000	198.00/M	CFRC305-G
1000	1000	DO-214AC (SMA)	641-1158-1-ND	.46	3.14	21.74	5,000	75.00/M	CFRA107-G
1000	2000	DO-214AA (SMB)	641-1161-1-ND	.43	3.30	23.76	3,000	112.00/M	CFRB207-G
1000	3000	DO-214AB (SMC)	641-1164-1-ND	.66	5.28	39.60	3,000	198.00/M	CFRC307-G
Super Fast Recovery Rectifier Diodes									
200	1000	DO-214AC (SMA)	641-1177-1-ND	.49	3.74	26.93	5,000	120.00/M	CSFA103-G
200	2000	DO-214AA (SMB)	641-1180-1-ND	.59	4.57	32.87	3,000	137.00/M	CSFB203-G
200	3000	DO-214AB (SMC)	641-1183-1-ND	.77	6.16	46.20	3,000	219.00/M	CSFC303-G
400	1000	DO-214AC (SMA)	641-1178-1-ND	.49	3.74	26.93	5,000	120.00/M	CSFA104-G
400	2000	DO-214AA (SMB)	641-1181-1-ND	.59	4.57	32.87	3,000	137.00/M	CSFB204-G
400	3000	DO-214AB (SMC)	641-1184-1-ND	.77	6.16	46.20	3,000	219.00/M	CSFC304-G
600	1000	DO-214AC (SMA)	641-1179-1-ND	.49	3.74	26.93	5,000	120.00/M	CSFA105-G
600	2000	DO-214AA (SMB)	641-1182-1-ND	.50	3.96	29.70	3,000	149.00/M	CSFB205-G
600	3000	DO-214AB (SMC)	641-1185-1-ND	.77	6.16	46.20	3,000	219.00/M	CSFC305-G
Ultra Fast Recovery Rectifier Diodes									
200	1000	DO-214AC (SMA)	641-1186-1-ND	.46	3.58	25.74	5,000	114.00/M	CURA103-G
200	2000	DO-214AA (SMB)	641-1189-1-ND	.46	3.65	27.39	3,000	137.00/M	CURB203-G
200	3000	DO-214AB (SMC)	641-1192-1-ND	.72	5.72	42.90	3,000	215.00/M	CURC303-G
400	1000	DO-214AC (SMA)	641-1187-1-ND	.46	3.58	25.74	5,000	114.00/M	CURA104-G
400	2000	DO-214AA (SMB)	641-1190-1-ND	.46	3.65	27.39	3,000	137.00/M	CURB204-G
400	3000	DO-214AB (SMC)	641-1193-1-ND	.72	5.72	42.90	3,000	215.00/M	CURC304-G
1000	1000	DO-214AC (SMA)	641-1188-1-ND	.46	3.58	25.74	5,000	114.00/M	CURA107-G
1000	2000	DO-214AA (SMB)	641-1191-1-ND	.46	3.65	27.39	3,000	137.00/M	CURB207-G
1000	3000	DO-214AB (SMC)	641-1194-1-ND	.72	5.72	42.90	3,000	215.00/M	CURC307-G
Bridge Rectifier Diodes									
40	1000	TO-269AA	641-1210-1-ND	1.31	11.38	87.50	2,500	466.00/M	CDBHD140L-G
40	2000	TO-269AA	641-1213-1-ND	1.31	11.38	87.50	2,500	466.00/M	CDBHD240-G
60	1000	TO-269AA	641-1211-1-ND	1.31	11.38	87.50	2,500	466.00/M	CDBHD160L-G
60	2000	TO-269AA	641-1214-1-ND	1.31	11.38	87.50	2,500	466.00/M	CDBHD260-G
100	1000	TO-269AA	641-1209-1-ND	1.31	11.38	87.50	2,500	466.00/M	CDBHD1100L-G
100	2000	TO-269AA	641-1212-1-ND	1.31	11.38	87.50	2,500	466.00/M	CDBHD2100-G

‡ For Tape and Reel part number, change 1-ND to 2-ND. ▲ ***NEW!***

Zener Diodes

Voltage (Typ.)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Comchip Part No.
		1	10	100	Qty.	Pricing	
150 mWatts — SOD-523F (0603)							
2.0	641-1019-1-ND	.44	3.00	20.80	4,000	80.00/M	CZRU52C2
2.2	641-1020-1-ND	.44	3.00	20.80	4,000	80.00/M	CZRU52C2V2
2.4	641-1021-1-ND	.44	3.00	20.80	4,000	80.00/M	CZRU52C2V4
2.7	641-1022-1-ND	.44	3.00	20.80	4,000	80.00/M	CZRU52C2V7
3.0	641-1023-1-ND	.44	3.00	20.80	4,000	80.00/M	CZRU52C3
3.3	641-1024-1-ND	.44	3.00	20.80	4,000	80.00/M	CZRU52C3V3
3.6	641-1025-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C3V6
3.9	641-1026-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C3V9
4.3	641-1027-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C4V3
4.7	641-1028-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C4V7
5.1	641-1029-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C5V1
5.6	641-1030-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C5V6
6.2	641-1031-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C6V2
6.8	641-1032-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C6V8
7.5	641-1033-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C7V5
8.2	641-1034-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C8V2
9.1	641-1035-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C9V1
10.0	641-1036-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C10
11.0	641-1037-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C11
12.0	641-1038-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C12
13.0	641-1039-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C13
15.0	641-1040-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C15
16.0	641-1041-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C16
18.0	641-1042-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C18
20.0	641-1043-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C20
22.0	641-1044-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C22
24.0	641-1045-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C24
27.0	641-1046-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C27
30.0	641-1047-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C30
33.0	641-1048-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C33
36.0	641-1049-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C36
39.0	641-1050-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRU52C39
150 mWatts — 0503							
3.0	641-1230-1-ND	.44	3.25	22.88	5,000	88.00/M	CZRER52C3
3.3	641-1231-1-ND	.44	3.25	22.88	5,000	88.00/M	CZRER52C3V3
3.6	641-1232-1-ND	.38	2.81	19.80	5,000	77.00/M	CZRER52C3V6
11.0	641-1224-1-ND	.38	2.81	19.80	5,000	77.00/M	CZRER52C11
12.0	641-1225-1-ND	.38	2.81	19.80	5,000	77.00/M	CZRER52C12
13.0	641-1226-1-ND	.38	2.81	19.80	5,000	77.00/M	CZRER52C13
22.0	641-1227-1-ND	.38	2.81	19.80	5,000	77.00/M	CZRER52C22
24.0	641-1228-1-ND	.38	2.81	19.80	5,000	77.00/M	CZRER52C24
27.0	641-1229-1-ND	.38	2.81	19.80	5,000	77.00/M	CZRER52C27
200 mWatts — SOD-323F (1005)							
2.0	641-1051-1-ND	.44	3.00	20.80	4,000	80.00/M	CZRF52C2
2.2	641-1052-1-ND	.44	3.00	20.80	4,000	80.00/M	CZRF52C2V2
2.4	641-1053-1-ND	.44	3.00	20.80	4,000	80.00/M	CZRF52C2V4
2.7	641-1054-1-ND	.44	3.00	20.80	4,000	80.00/M	CZRF52C2V7
3.0	641-1055-1-ND	.44	3.00	20.80	4,000	80.00/M	CZRF52C3
3.3	641-1056-1-ND	.44	3.00	20.80	4,000	80.00/M	CZRF52C3V3
3.6	641-1057-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C3V6

‡ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Voltage (Typ.)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel‡ Qty.	Pricing	Comchip Part No.
3.9	641-1058-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C3V9
4.3	641-1059-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C4V3
4.7	641-1060-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C4V7
5.1	641-1061-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C5V1
5.6	641-1062-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C5V6
6.2	641-1063-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C6V2
6.8	641-1064-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C6V8
7.5	641-1065-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C7V5
8.2	641-1066-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C8V2
9.1	641-1067-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C9V1
10.0	641-1068-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C10
11.0	641-1069-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C11
12.0	641-1070-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C12

Voltage (Typ.)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel‡ Qty.	Pricing	Comchip Part No.
13.0	641-1071-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C13
15.0	641-1072-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C15
16.0	641-1073-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C16
18.0	641-1074-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C18
20.0	641-1075-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C20
22.0	641-1076-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C22
24.0	641-1077-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C24
27.0	641-1078-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C27
30.0	641-1079-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C30
33.0	641-1080-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C33
36.0	641-1081-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C36
39.0	641-1082-1-ND	.39	2.63	18.20	4,000	70.00/M	CZRF52C39

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Bidirectional ESD Transient Voltage Suppressors

Fig. 1

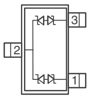

Fig. 2

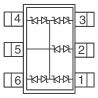

Fig. 3

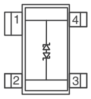

Fig. 4

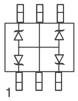

Fig. 5

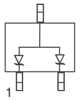

Fig. 6

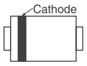

Fig.	Voltage	Package	No. of Channels	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Comchip Part No.
1	24	SOT-23	2	641-1197-1-ND	.58	4.60	34.50	641-1197-2-ND	3,000	173.00/M	CEAS0324V-G
	5	SOT-23	2	641-1198-1-ND	.58	4.60	34.50	641-1198-2-ND	3,000	173.00/M	CEAS035V0-G
2	24	SOT23-6	5	641-1199-1-ND	.78	6.21	46.58	641-1199-2-ND	3,000	246.00/M	CECS0624V-G
	5	SOT23-6	5	641-1200-1-ND	.78	6.21	46.58	641-1200-2-ND	3,000	246.00/M	CECS065V0-G
3	24	SOT-143	4	641-1201-1-ND	.78	6.21	46.58	641-1201-2-ND	3,000	246.00/M	CEGS1424V-G
	5	SOT-143	4	641-1202-1-ND	.78	6.21	46.58	641-1202-2-ND	3,000	246.00/M	CEGS145V0-G
	5	SOT-143	1	641-1203-1-ND	2.07	17.25	144.90	641-1203-2-ND	3,000	897.00/M	CLCS145V0-G
4	24	SOT23-6	4	641-1204-1-ND	1.21	10.47	80.50	641-1204-2-ND	3,000	428.00/M	CTDS0624V-G
	5	SOT23-6	4	641-1205-1-ND	1.21	10.47	80.50	641-1205-2-ND	3,000	428.00/M	CTDS065V0-G
5	12	SOT-23	2	641-1206-1-ND	.93	7.45	55.89	641-1206-2-ND	3,000	295.00/M	CTES0312V-G
6	5	DO-214AC (SMA)	1	641-1241-1-ND	.42	3.06	21.56	641-1241-2-ND	5,000	83.00/M	TV04A5V0JB-G
	6	DO-214AC (SMA)	1	641-1242-1-ND	.42	3.06	21.56	641-1242-2-ND	5,000	83.00/M	TV04A6V0JB-G
	10	DO-214AC (SMA)	1	641-1233-1-ND	.42	3.06	21.56	641-1233-2-ND	5,000	83.00/M	TV04A100JB-G
	11	DO-214AC (SMA)	1	641-1234-1-ND	.40	2.97	20.90	641-1234-2-ND	5,000	81.00/M	TV04A110JB-G
	12	DO-214AC (SMA)	1	641-1235-1-ND	.40	2.97	20.90	641-1235-2-ND	5,000	81.00/M	TV04A120JB-G
	22	DO-214AC (SMA)	1	641-1239-1-ND	.40	2.97	20.90	641-1239-2-ND	5,000	81.00/M	TV04A220JB-G
	24	DO-214AC (SMA)	1	641-1240-1-ND	.40	2.97	20.90	641-1240-2-ND	5,000	81.00/M	TV04A240JB-G
	120	DO-214AC (SMA)	1	641-1236-1-ND	.40	2.97	20.90	641-1236-2-ND	5,000	81.00/M	TV04A121JB-G
	130	DO-214AC (SMA)	1	641-1237-1-ND	.40	2.97	20.90	641-1237-2-ND	5,000	81.00/M	TV04A131JB-G
	150	DO-214AC (SMA)	1	641-1238-1-ND	.40	2.97	20.90	641-1238-2-ND	5,000	81.00/M	TV04A151JB-G
6	5	DO-214AA (SMB)	1	641-1252-1-ND	.46	3.50	25.20	641-1252-2-ND	3,000	119.00/M	TV06B5V0JB-G
	6	DO-214AA (SMB)	1	641-1253-1-ND	.46	3.50	25.20	641-1253-2-ND	3,000	119.00/M	TV06B6V0JB-G
	6.5	DO-214AA (SMB)	1	641-1254-1-ND	.46	3.50	25.20	641-1254-2-ND	3,000	119.00/M	TV06B6V5JB-G
	11	DO-214AA (SMB)	1	641-1243-1-ND	.46	3.50	25.20	641-1243-2-ND	3,000	119.00/M	TV06B110JB-G
	12	DO-214AA (SMB)	1	641-1245-1-ND	.46	3.50	25.20	641-1245-2-ND	3,000	119.00/M	TV06B120JB-G
	13	DO-214AA (SMB)	1	641-1247-1-ND	.46	3.50	25.20	641-1247-2-ND	3,000	119.00/M	TV06B130JB-G
	22	DO-214AA (SMB)	1	641-1249-1-ND	.46	3.50	25.20	641-1249-2-ND	3,000	119.00/M	TV06B220JB-G
	24	DO-214AA (SMB)	1	641-1250-1-ND	.46	3.50	25.20	641-1250-2-ND	3,000	119.00/M	TV06B240JB-G
	26	DO-214AA (SMB)	1	641-1251-1-ND	.46	3.50	25.20	641-1251-2-ND	3,000	119.00/M	TV06B260JB-G
	110	DO-214AA (SMB)	1	641-1244-1-ND	.46	3.50	25.20	641-1244-2-ND	3,000	119.00/M	TV06B111JB-G
	120	DO-214AA (SMB)	1	641-1246-1-ND	.46	3.50	25.20	641-1246-2-ND	3,000	119.00/M	TV06B121JB-G
	130	DO-214AA (SMB)	1	641-1248-1-ND	.46	3.50	25.20	641-1248-2-ND	3,000	119.00/M	TV06B131JB-G

ESDTVS-KIT-ND TVS Kit 20 each of 28 values, 560 total pieces **$262.50**

ESD Suppressors

Fig.	Package	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel‡ Qty.	Pricing	Comchip Part No.
1	SOT23-6	641-1083-1-ND	.68	5.40	40.50	3,000	214.00/M	CDA3S06-G
2	SOT23-6	641-1222-1-ND	1.08	8.64	64.80	3,000	342.00/M	CSRS065V0-G
3	SOT-143	641-1084-1-ND	.68	5.40	40.50	3,000	214.00/M	CDA4S14-G
4	SOT-23	641-1085-1-ND	.65	5.20	39.00	3,000	195.00/M	CDA8S03-G
5	SOT-23	641-1223-1-ND	.81	6.48	48.60	3,000	257.00/M	CTES033V3-G
6	0503 (1308)	641-1218-1-ND	.55	4.23	30.42	5,000	135.00/M	CPDER5V0
6	1005 (2512)	641-1219-1-ND	.42	3.25	23.40	4,000	111.00/M	CPDFR5V0
6	0603 (1608)	641-1220-1-ND	.42	3.25	23.40	4,000	111.00/M	CPDUR5V0
6	SOD-523F (0603)	641-1088-1-ND	.42	3.25	23.40	4,000	111.00/M	CPDU5V0
6	SOD-523F (0603)	641-1089-1-ND	.42	3.25	23.40	4,000	111.00/M	CPDU24V
7	14-SOIC	641-1090-1-ND	.98	8.45	65.00	2,500	346.00/M	CTAN1424V-G
8	SOT23-6	641-1086-1-ND	.50	4.00	30.00	3,000	150.00/M	CEBS065V0-G
8	SOT23-6	641-1087-1-ND	.50	4.00	30.00	3,000	150.00/M	CEBS0624V-G
9	24-QSOP	641-1195-1-ND	3.00	25.00	210.00	2,500	1280.00/M	CDA5Q24-G
10	8-SOIC	641-1196-1-ND	2.25	18.75	157.50	2,500	975.00/M	CDA6N08-G

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 1

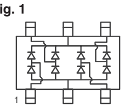

Fig. 2

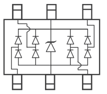

Fig. 3

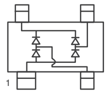

Fig. 4

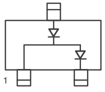

Fig. 5

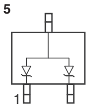

Fig. 6

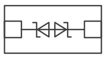

Fig. 7

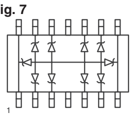

Fig. 8

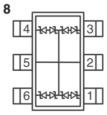

Fig. 9

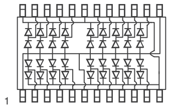

Fig. 10

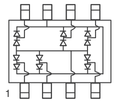

CREE SiC Schottky Diodes

Fig.	Package	V_{RRM} (V)	$I_{F(AV)}$ (A)	P_{tot} (W)	Digi-Key Part No.	Price Each 1	50	100
1	TO-220-2	300	10	79	CSD10030A-ND	7.45	7.12	6.78
		600	1	21.4	CSD01060A-ND	.93	.89	.85
		600	2	31.9	CSD02060A-ND	1.87	1.79	1.70
		600	4	62.5	CSD04060A-ND	3.73	3.56	3.39
		600	6	83.3	CSD06060A-ND	5.59	5.34	5.08
		600	8	107	CSD08060A-ND	7.46	7.12	6.78
		600	10	136.3	CSD10060A-ND	9.32	8.89	8.47
		1,200	5	136	C2D05120A-ND	9.32	8.89	8.47
		1,200	10	312	C2D10120A-ND	16.58	15.84	15.08
	TO-252-2 (DPAK)	600	1	21.4	CSD01060E-ND	.93	.89	.85
		600	4	62.5	CSD04060E-ND	3.73	3.56	3.39
	TO-263-2 (D2PAK)	600	2	31.9	CSD02060G-ND	1.87	1.79	1.70
		600	6	83.3	CSD06060G-ND	5.59	5.34	5.08
		600	10	136.3	CSD10060G-ND	9.32	8.89	8.47
2	TO-247	300	20	79	CSD20030D-ND	14.91	14.23	13.55
		600	20	138	CSD20060D-ND	18.63	17.79	16.94
		1,200	20	138	C2D10120D-ND	18.63	17.79	16.94
		1,200	20	312	C2D20120D-ND	37.27	35.57	33.88

TO-220-2

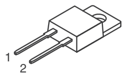

TO-252-2 (DPAK)

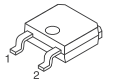

TO-263-2 (D2PAK)

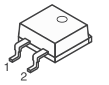

TO-247

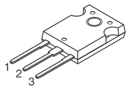

Fig. 1

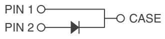

Fig. 2

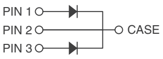

Transistors and MOSFETs

Multiple pinout configurations available, see Digi-Key website for data sheet.

Dimensions in mm

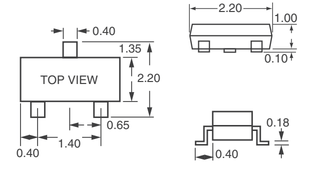

Fig. 1 — SOT-323

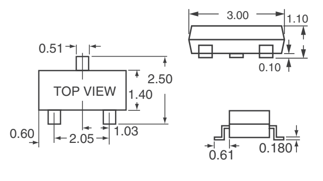

Fig. 2 — SOT-23

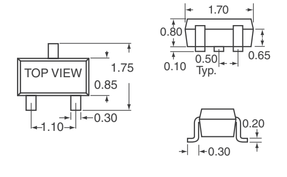

Fig. 3 — SOT-523

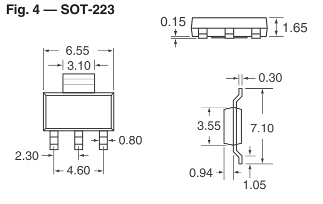

Fig. 4 — SOT-223

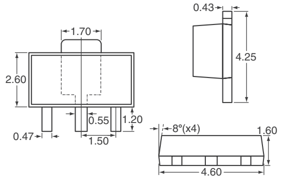

Fig. 5 — *NEW!* SOT-89

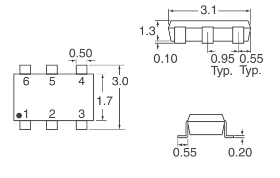

Fig. 6 — SOT-26

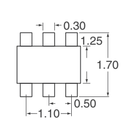

Fig. 7 — SOT-563

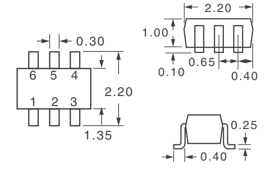

Fig. 8 — SOT-363

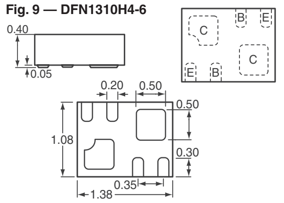

Fig. 9 — DFN1310H4-6

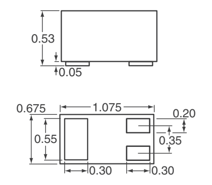

Fig. 10 — DFN1006-3

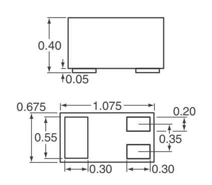

Fig. 11 — *NEW!* DFN1006H4-3

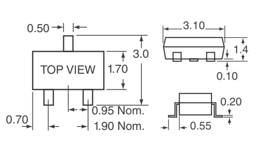

Fig. 12 — SC-59

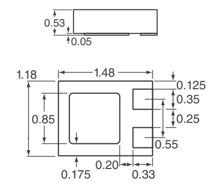

Fig. 13 — *NEW!* DFN1411-3

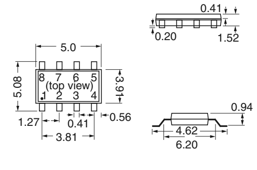

Fig. 14 — SO-8

Transistors

Fig.	V_{CEO} (V)	I_C (mA)	Min. H_{FE}	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel§	
					10	100	Qty.	Pricing
				NPN SOT-323				
1	25	200	60	MMST4124DICT-ND	3.25	23.40	—	—
	25	200	60	MMST4124-FDICT-ND◆	3.25	23.40	3,000	111.00/M
	30	300	10K	MMSTA13DICT-ND	3.60	27.00	3,000	135.00/M
	30	300	10K	MMSTA13-FDICT-ND◆	3.60	27.00	3,000	135.00/M
	30	300	20K	MMSTA14DICT-ND	3.60	27.00	3,000	135.00/M
	30	300	20K	MMSTA14-FDICT-ND◆	3.60	27.00	3,000	135.00/M
	40	600	35	MMST2222A-FDICT-ND◆	3.25	23.40	3,000	111.00/M
	40	200	30	MMST3904-FDICT-ND◆	3.25	23.40	3,000	111.00/M
	40	600	20	MMST4401-FDICT-ND◆	3.25	23.40	3,000	111.00/M
	40	500	14K	MMST6427-FDICT-ND◆	3.25	23.40	3,000	111.00/M
	45	500	60	BC817-16WDICT-ND◆	3.00	20.80	3,000	80.00/M
	45	500	100	BC817-25WDICT-ND◆	3.00	20.80	3,000	80.00/M
	45	500	170	BC817-40WDICT-ND◆	3.00	20.80	3,000	80.00/M
	45	100	200	BC847BW-FDICT-ND◆	1.00	7.04	3,000	29.00/M
	45	100	420	BC847CW-FDICT-ND◆	1.60	10.40	3,000	38.00/M
	60	500	100	MMSTA05DICT-ND	3.60	27.00	—	—
	60	500	100	MMSTA05-FDICT-ND◆	3.60	27.00	3,000	135.00/M
	65	100	200	BC846BW-FDICT-ND◆	1.60	10.40	3,000	38.00/M
	80	500	100	MMSTA06DICT-ND	3.60	27.00	—	—
	80	500	100	MMSTA06-FDICT-ND◆	3.60	27.00	3,000	135.00/M
	160	200	30	MMST5551DICT-ND	3.25	23.40	—	—
	160	200	30	MMST5551-FDICT-ND◆	3.25	23.40	3,000	111.00/M
	300	200	25	MMSTA42-FDICT-ND◆	3.60	27.00	3,000	135.00/M
				NPN SOT-23				
2	18	1000	150	MMBT123SDICT-ND	3.00	21.60	—	—
	18	1000	150	MMBT123S-FDICT-ND◆	3.00	21.60	3,000	102.00/M
	25	50	30	MMBTH10DICT-ND	4.00	28.80	3,000	136.00/M
	25	50	30	MMBTH10-FDICT-ND◆	4.00	28.80	3,000	136.00/M
	25	200	60	MMBT4124-FDICT-ND◆	2.63	18.20	3,000	70.00/M
	30	100	10K	MMBTA13-FDICT-ND◆	3.63	25.52	3,000	104.00/M
	30	100	20K	MMBTA14-FDICT-ND◆	3.63	25.52	3,000	104.00/M
	40	50	60	MMBTH24DICT-ND	4.00	28.80	—	—
	40	50	60	MMBTH24-FDICT-ND◆	4.00	28.80	3,000	136.00/M
	40	600	100	MMBT2222A-FDICT-ND◆	2.63	18.20	3,000	70.00/M
	40	200	100	MMBT3904-FDICT-ND◆	2.25	15.60	3,000	60.00/M
	40	600	100	MMBT4401-FDICT-ND◆	2.63	18.20	3,000	70.00/M
	40	500	10K	MMBT6427DICT-ND	3.63	25.52	3,000	104.00/M
	40	500	10K	MMBT6427-FDICT-ND◆	3.63	25.52	3,000	104.00/M
	45	800	100	BC817-16DICT-ND	3.00	20.80	—	—
	45	800	100	BC817-16-FDICT-ND◆	3.00	20.80	3,000	80.00/M
	45	800	100	BC817-25-FDICT-ND◆	3.00	20.80	3,000	80.00/M
	45	800	170	BC817-40-FDICT-ND◆	3.00	20.80	3,000	80.00/M
	45	100	420	BC847C-FDICT-ND◆	1.60	10.40	3,000	38.00/M
	60	1000	100	DNBT8105DICT-ND◆	3.00	21.12	3,000	86.00/M
	60	100	50	MMBTA05-FDICT-ND◆	3.63	25.52	3,000	104.00/M
	65	100	200	BC846B-FDICT-ND◆	1.60	10.40	3,000	38.00/M
	80	100	50	MMBTA06DICT-ND	3.63	25.52	3,000	104.00/M
	80	100	50	MMBTA06-FDICT-ND◆	3.63	25.52	3,000	104.00/M
	80	500	80	MMBTA28DICT-ND	3.63	25.52	3,000	104.00/M
	80	500	80	MMBTA28-FDICT-ND◆	3.63	25.52	3,000	104.00/M
	160	200	30	MMBT5551-FDICT-ND◆	3.00	20.80	3,000	80.00/M
	300	200	25	MMBTA42-FDICT-ND◆	3.63	25.52	3,000	104.00/M
	350	500	30	DN350T05DICT-ND◆	3.00	21.12	3,000	86.00/M

Fig.	V_{CEO} (V)	I_C (mA)	Min. H_{FE}	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel§	
					10	100	Qty.	Pricing
				NPN SOT-523				
3	40	600	35	MMBT2222ATDICT-ND	2.63	18.20	—	—
	40	600	35	MMBT2222AT-FDICT-ND◆	2.63	18.20	3,000	70.00/M
	40	200	30	MMBT3904T-FDICT-ND◆	2.25	15.60	3,000	60.00/M
	40	600	20	MMBT4401T-FDICT-ND◆	2.63	18.20	3,000	70.00/M
	45	100	200	BC847BT-FDICT-ND◆	2.25	15.60	3,000	60.00/M
	50	100	110	BC847ATDICT-ND	2.25	15.60	3,000	60.00/M
	50	100	110	BC847AT-FDICT-ND◆	2.25	15.60	3,000	60.00/M
	50	150	120	2DC4617QDICT-ND	2.81	19.80	3,000	81.00/M
	50	150	120	2DC4617Q-FDICT-ND◆	2.81	19.80	3,000	81.00/M
	50	150	180	2DC4617RDICT-ND	2.81	19.80	—	—
	50	150	180	2DC4617R-FDICT-ND◆	2.81	19.80	3,000	81.00/M
	50	150	270	2DC4617SDICT-ND	2.81	19.80	3,000	81.00/M
	50	150	270	2DC4617S-FDICT-ND◆	2.81	19.80	3,000	81.00/M
				NPN SOT-223 — RoHS Compliant				
4	20	100	85	DCP68DICT-ND	3.60	27.00	2,500	135.00/M
	25	.005	50	DZT3150DICT-ND	4.00	30.00	2,500	150.00/M
	40	100	100	DZT2222ADICT-ND	3.60	27.00	2,500	135.00/M
	45	1,000	63	DCP54DICT-ND	3.60	27.00	2,500	135.00/M
	45	1,000	100	DCP54-16DICT-ND	3.60	27.00	2,500	135.00/M
	60	.006	25	DZT851DICT-ND	5.76	43.20	2,500	228.00/M
	60	500	100	DZT491DICT-ND	3.60	27.00	2,500	135.00/M
	60	1,000	40	DCP55DICT-ND	3.60	27.00	2,500	135.00/M
	60	1,000	100	DCP55-16DICT-ND	3.60	27.00	2,500	135.00/M
	80	1,000	40	DCP56DICT-ND	3.60	27.00	2,500	135.00/M
	80	1,000	100	DCP56-16DICT-ND	3.60	27.00	2,500	135.00/M
	100	.006	20	DZT853DICT-ND	5.76	43.20	2,500	228.00/M
	160	600	30	DZT5551DICT-ND ***NEW!***	3.60	27.00	2,500	135.00/M
	300	500	40	DZTA42DICT-ND	4.00	30.00	2,500	150.00/M
				NEW! NPN SOT-89 — RoHS Compliant NEW!				
5	20	3000	180	2DD2150RDICT-ND	4.00	28.80	2,500	136.00/M
	20	1000	50	DCX68DICT-ND	4.00	28.80	2,500	136.00/M
	25	5000	50	DXT3150DICT-ND	3.60	27.00	2,500	135.00/M
	32	1000	82	2DD1664PDICT-ND	4.00	28.80	2,500	136.00/M
	32	1000	120	2DD1664QDICT-ND	4.00	28.80	2,500	136.00/M
	32	1000	180	2DD1664RDICT-ND	4.00	28.80	2,500	136.00/M
	32	2000	82	2DD1766PDICT-ND	3.60	27.00	2,500	135.00/M
	32	2000	180	2DD1766RDICT-ND	3.60	27.00	2,500	135.00/M
	40	600	35	DXT2222ADICT-ND	4.00	28.80	2,500	136.00/M
	80	1000	40	DCX56DICT-ND	3.60	27.00	2,500	135.00/M
	80	1000	40	DCX56-16DICT-ND	3.60	27.00	2,500	135.00/M
	160	600	30	DXT5551DICT-ND	3.60	27.00	2,500	135.00/M
				Dual NPN SOT-26				
6	120	50	180	IMX8DICT-ND	3.50	25.20	3,000	119.00/M
	120	50	180	IMX8-FDICT-ND◆	3.50	25.20	3,000	119.00/M
	160	200	30	DMMT5551-FDICT-ND▲◆	4.00	30.00	3,000	150.00/M
				Dual NPN SOT-563 — RoHS Compliant				
7	40	600	35	MMDT2222VDICT-ND	4.00	28.80	3,000	136.00/M
	40	200	100	MMDT3904VDICT-ND	4.00	28.80	3,000	136.00/M
	40	200	30	MMDT3904VCDICT-ND	4.00	28.80	3,000	136.00/M
	45	100	200	BC847BVDICT-ND	4.00	28.80	3,000	136.00/M
	45/45	100/100	200/220	BC847BVNDICT-ND	3.80	28.50	3,000	143.00/M

▲ Intrinsically Matched NPN Pair † Intrinsically Matched PNP Pair § For Tape and Reel part number, change CT-ND to TR-ND ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

DIODES Transistors and MOSFETs

Transistors *(Cont.)*

Fig.	V_{CEO} (V)	I_C (mA)	Min. H_{FE}	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
Dual NPN SOT-363								
8	25	200	60	MMDT4124-FDICT-ND◆	4.00	30.00	3,000	150.00/M
	40	600	100	MMDT4401DICT-ND	4.00	30.00	—	—
	40	600	100	MMDT4401-FDICT-ND◆	4.00	30.00	3,000	150.00/M
	40	200	100	DMMT3904W-FDICT-ND▲◆	4.00	30.00	3,000	150.00/M
	40	600	35	MMDT2222A-FDICT-ND◆	4.00	28.80	3,000	136.00/M
	40	200	30	MMDT3904-FDICT-ND◆	3.50	25.20	3,000	119.00/M
	65	100	110	BC846ASDICT-ND◆	3.75	27.00	3,000	128.00/M
	160	200	30	MMDT5551-FDICT-ND◆	4.00	30.00	3,000	150.00/M
Dual NPN DFN1310H4-6 — RoHS Compliant								
9	45	100	420	BC847CDLPDICT-ND	3.60	27.00	3,000	135.00/M
Complementary NPN/PNP SOT-26 — RoHS Compliant								
6	40/40	200/200	10/12	LBN150B01DICT-ND	4.00	30.00	3,000	150.00/M
	40/60	600/600	35/50	MMDT2227MDICT-ND	3.60	27.00	3,000	135.00/M
Complementary NPN/PNP SOT-363								
8	40/60	600/600	35/50	MMDT2227-FDICT-ND◆	4.00	28.80	3,000	136.00/M
	40/40	200/200	40/60	MMDT3946-FDICT-ND◆	4.00	28.80	3,000	136.00/M
	40/40	200/200	60/60	MMDT4146DICT-ND	4.00	30.00	3,000	150.00/M
	40/40	200/200	60/60	MMDT4146-FDICT-ND◆	4.00	30.00	3,000	150.00/M
	40/40	600/600	20/30	MMDT4413DICT-ND	4.00	30.00	—	—
	40/40	600/600	20/30	MMDT4413-FDICT-ND◆	4.00	30.00	3,000	150.00/M
	160/160	200/200	30/50	MMDT5451-FDICT-ND◆	4.00	30.00	3,000	150.00/M
NPN/P-Channel Complex Array SOT-363								
8	60	600	100	CTA2N1PDICT-ND	4.80	36.00	3,000	200.00/M
	60	600	100	CTA2N1P-FDICT-ND◆	5.40	40.50	3,000	214.00/M
PNP SOT-323								
1	25	200	60	MMST4126DICT-ND	3.25	23.40	—	—
	25	200	60	MMST4126-FDICT-ND◆	3.25	23.40	3,000	111.00/M
	30	500	10K	MMSTA63DICT-ND	3.60	27.00	3,000	135.00/M
	30	500	10K	MMSTA63-FDICT-ND◆	3.60	27.00	3,000	135.00/M
	30	500	20K	MMSTA64DICT-ND	3.60	27.00	3,000	135.00/M
	30	500	20K	MMSTA64-FDICT-ND◆	3.60	27.00	3,000	135.00/M
	40	200	30	MMST3906-FDICT-ND◆	3.25	23.40	3,000	111.00/M
	40	600	30	MMST4403DICT-ND	3.25	23.40	—	—
	40	600	30	MMST4403-FDICT-ND◆	3.25	23.40	3,000	111.00/M
	45	500	60	BC807-16WDICT-ND◆	3.00	20.80	3,000	80.00/M
	45	500	100	BC807-25WDICT-ND◆	3.00	20.80	3,000	80.00/M
	45	500	170	BC807-40WDICT-ND◆	3.00	20.80	3,000	80.00/M
	45	100	220	BC857BW-FDICT-ND◆	1.60	10.40	3,000	38.00/M
	45	100	420	BC857CW-FDICT-ND◆	1.60	10.40	3,000	38.00/M
	60	500	100	MMSTA55DICT-ND	3.60	27.00	3,000	135.00/M
	60	500	100	MMSTA55-FDICT-ND◆	3.60	27.00	3,000	135.00/M
	60	600	50	MMST2907ADICT-ND	3.25	23.40	—	—
	60	600	50	MMST2907A-FDICT-ND◆	3.25	23.40	3,000	111.00/M
	65	100	220	BC856BW-FDICT-ND◆	1.00	7.04	3,000	29.00/M
	80	500	100	MMSTA56DICT-ND	3.60	27.00	3,000	135.00/M
	80	500	100	MMSTA56-FDICT-ND◆	3.60	27.00	3,000	135.00/M
	150	200	50	MMST5401-FDICT-ND◆	3.25	23.40	3,000	111.00/M
	300	100	25	MMSTA92-FDICT-ND◆	3.60	27.00	3,000	135.00/M
PNP SOT-23								
2	25	200	60	MMBT4126DICT-ND	2.63	18.20	3,000	70.00/M
	25	200	60	MMBT4126-FDICT-ND◆	2.63	18.20	3,000	70.00/M
	30	500	10K	MMBTA63DICT-ND	3.63	25.52	—	—
	30	500	10K	MMBTA63-FDICT-ND◆	3.63	25.52	3,000	104.00/M
	30	500	20K	MMBTA64DICT-ND	3.63	25.52	3,000	104.00/M
	30	500	20K	MMBTA64-FDICT-ND◆	3.63	25.52	3,000	104.00/M
	40	200	30	MMBT3906-FDICT-ND◆	2.25	15.60	3,000	60.00/M
	40	600	100	MMBT4403-FDICT-ND◆	2.63	18.20	3,000	70.00/M
	45	500	60	BC807-16-FDICT-ND◆	3.00	20.80	3,000	80.00/M
	45	500	100	BC807-25-FDICT-ND◆	3.00	20.80	3,000	80.00/M
	45	500	170	BC807-40-FCT-ND◆	3.00	20.80	3,000	80.00/M
	45	100	420	BC857C-FDICT-ND◆	1.00	7.04	3,000	29.00/M
	60	100	50	MMBTA55DICT-ND	3.63	25.52	3,000	104.00/M
	60	100	50	MMBTA55-FDICT-ND◆	3.63	25.52	3,000	104.00/M
	60	150	300	MMBT2907A-FDICT-ND◆	2.63	18.20	3,000	70.00/M
	65	100	125	BC856A-FDICT-ND◆	1.00	7.04	3,000	29.00/M
	80	100	50	MMBTA56DICT-ND	3.63	25.52	3,000	104.00/M
	80	100	50	MMBTA56-FDICT-ND◆	3.63	25.52	3,000	104.00/M
	150	200	50	MMBT5401-FDICT-ND◆	3.00	20.80	3,000	80.00/M
	300	500	25	MMBTA92-FDICT-ND◆	3.63	25.52	—	—
PNP SOT-523								
3	40	200	30	MMBT3906TDICT-ND	2.25	15.60	—	—
	40	200	30	MMBT3906T-FDICT-ND◆	2.25	15.60	3,000	60.00/M
	40	600	20	MMBT4403T-FDICT-ND◆	2.63	18.20	3,000	70.00/M
	45	100	125	BC857AT-FDICT-ND◆	2.25	15.60	3,000	60.00/M
	45	100	220	BC857BT-FDICT-ND◆	2.25	15.60	3,000	60.00/M
	50	150	120	2DA1774QDICT-ND	2.81	19.80	3,000	81.00/M
	50	150	180	2DA1774RDICT-ND	2.81	19.80	3,000	81.00/M
	50	150	180	2DA1774R-FDICT-ND◆	2.81	19.80	3,000	81.00/M
	50	150	270	2DA1774SDICT-ND	2.81	19.80	—	—
	50	150	270	2DA1774S-FDICT-ND◆	2.81	19.80	3,000	81.00/M
	60	600	50	MMBT2907ATDICT-ND	2.63	18.20	—	—
	60	600	50	MMBT2907AT-FDICT-ND◆	2.63	18.20	3,000	70.00/M
PNP SOT-223 — RoHS Compliant								
4	20	1,000	50	DCP69DICT-ND ***NEW!***	3.60	27.00	2,500	135.00/M
	20	1,000	50	DCP69-16DICT-ND ***NEW!***	3.60	27.00	2,500	135.00/M
	20	1,000	85	DCP69ADICT-ND	3.60	27.00	2,500	135.00/M
	20	1,000	100	DCP69A-16DICT-ND	3.60	27.00	2,500	135.00/M
	45	1,000	40	DCP51DICT-ND	3.60	27.00	2,500	135.00/M
	45	1,000	100	DCP51-16DICT-ND	3.60	27.00	2,500	135.00/M
	50	3,000	100	DPLS350EDICT-ND ***NEW!***	3.75	27.00	2,500	128.00/M
	60	1,000	40	DCP52DICT-ND	3.60	27.00	2,500	135.00/M
	60	.005	10	DZT951DICT-ND	5.76	43.20	2,500	228.00/M
	60	1,000	100	DCP52-16DICT-ND	3.60	27.00	2,500	135.00/M
4	60	100	100	DZT2907ADICT-ND	3.60	27.00	2,500	135.00/M
	60	500	100	DZT591CDICT-ND	3.60	27.00	2,500	135.00/M
	80	1,000	40	DCP53DICT-ND	3.60	27.00	2,500	135.00/M
	80	1,000	100	DCP53-16DICT-ND	3.60	27.00	2,500	135.00/M
	100	.005	15	DZT953DICT-ND	5.76	43.20	2,500	228.00/M
	150	600	50	DZT5401DICT-ND ***NEW!***	3.60	27.00	2,500	135.00/M
	300	250	40	DZTA92DICT-ND	4.00	30.00	2,500	150.00/M
NEW! PNP SOT-89 — RoHS Compliant NEW!								
5	20	1000	50	DCX69DICT-ND	4.00	28.80	2,500	136.00/M
	20	1000	50	DCX69-16DICT-ND	4.00	28.80	2,500	136.00/M
	32	1000	120	2DB1132QDICT-ND	4.00	28.80	2,500	136.00/M
	32	1000	180	2DB1132RDICT-ND	4.00	28.80	2,500	136.00/M
	32	2000	82	2DB1188PDICT-ND	3.60	27.00	2,500	135.00/M
	32	2000	120	2DB1188QDICT-ND	3.60	27.00	2,500	135.00/M
	32	2000	180	2DB1188RDICT-ND	3.60	27.00	2,500	135.00/M
	50	3000	80	DPLS350YDICT-ND	3.75	27.00	2,500	128.00/M
	60	600	50	DXT2907ADICT-ND	4.00	28.80	2,500	136.00/M
	80	1000	40	DCX53DICT-ND	3.60	27.00	2,500	135.00/M
	80	1000	40	DCX53-16DICT-ND	3.60	27.00	2,500	135.00/M
	150	600	50	DXT5401DICT-ND	3.60	27.00	2,500	135.00/M
PNP DFN1006-3 — RoHS Compliant								
10	45	100	200	BC847BLPDICT-ND	3.38	23.76	3,000	97.00/M
	45	100	220	BC857BLPDICT-ND	3.38	23.76	3,000	97.00/M
Dual PNP SOT-26 — RoHS Compliant								
6	150	200	50	DMMT5401-FDICT-ND†	4.00	30.00	3,000	150.00/M
Dual PNP SOT-563 — RoHS Compliant								
7	40	200	30	MMDT3906VCDICT-ND	4.00	28.80	3,000	136.00/M
	60	600	50	MMDT2907VDICT-ND	4.00	28.80	3,000	136.00/M
Dual PNP SOT-363								
8	25	200	60	MMDT4126DICT-ND	4.00	30.00	3,000	150.00/M
	25	200	60	MMDT4126-FDICT-ND◆	4.00	30.00	3,000	150.00/M
	40	200	60	MMDT3906DICT-ND	4.00	28.80	—	—
	40	200	60	MMDT3906-FDICT-ND◆	4.00	28.80	3,000	136.00/M
	40	600	100	MMDT4403-FDICT-ND◆	4.00	30.00	3,000	150.00/M
	40	200	30	DMMT3906W-FDICT-ND†◆	4.00	30.00	3,000	150.00/M
	60	600	75	MMDT2907A-FDICT-ND◆	4.00	28.80	3,000	136.00/M
	65	100	125	BC856ASDICT-ND◆	3.75	27.00	3,000	128.00/M
	150	200	50	MMDT5401-FDICT-ND◆	4.00	30.00	3,000	150.00/M
PNP/N-Channel Complex Array SOT-363								
8	40	600	100	CTA2P1NDICT-ND	5.40	40.50	—	—
	40	600	100	CTA2P1N-FDICT-ND◆	5.40	40.50	3,000	214.00/M
Complex Transistor/Diode Array SOT-363 — RoHS Compliant								
8	Array for Relay Driver		150	DRDN010WDICT-ND	4.00	30.00	3,000	150.00/M
	Array for Relay Driver		100	DRDN005WDICT-ND	4.00	30.00	3,000	150.00/M
	Array for Volt. Reg.		150	DVR1V8WDICT-ND	4.00	30.00	3,000	150.00/M
	Array for Volt. Reg.		150	DVR2V5WDICT-ND	4.00	30.00	3,000	150.00/M
	Array for Volt. Reg.		150	DVR3V3WDICT-ND	4.00	30.00	3,000	150.00/M
	Array for Volt. Reg.		150	DVR5V0WDICT-ND	4.00	30.00	3,000	150.00/M
	Array for Relay Driver		100	DRDP006WDICT-ND	4.00	30.00	3,000	150.00/M
	Array for Relay Driver		56	DRDNB16WDICT-ND	4.00	30.00	3,000	150.00/M
	Array for Relay Driver		47	DRDNB26WDICT-ND	4.00	30.00	3,000	150.00/M
	Array for Relay Driver		56	DRDPB16WDICT-ND	4.00	30.00	3,000	150.00/M
	Array for Relay Driver		47	DRDPB26WDICT-ND	4.00	30.00	3,000	150.00/M

MOSFETs

Fig.	V_{DS} (V)	I_D (A)	R_{DS} (on) (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
N-Channel SOT-323								
1	20	0.540	0.4	DMN2004WKDICT-ND◆	4.00	30.00	3,000	150.00/M
	50	0.300	2.0	DMN5L06WKDICT-ND◆	4.00	30.00	3,000	150.00/M
	60	0.300	2.0	DMN601WKDICT-ND◆	4.00	30.00	3,000	150.00/M
	50	0.200	3.5	BSS138W-FDICT-ND◆	4.40	33.00	3,000	165.00/M
	60	0.115	3.2	2N7002W-FDICT-ND◆	4.80	36.00	3,000	180.00/M
	100	0.170	6.0	BSS123WDICT-ND	4.20	31.50	3,000	158.00/M
	100	0.170	6.0	BSS123W-FDICT-ND◆	4.20	31.50	3,000	158.00/M
N-Channel SOT-23 — RoHS Compliant								
2	20	0.540	0.4	DMN2004KDICT-ND	4.00	28.80	3,000	136.00/M
	20	2.3	0.17	DMN2170UDICT-ND ***NEW!***	4.00	30.00	3,000	150.00/M
	28	3.2	0.115	DMN3150LDICT-ND ***NEW!***	4.20	31.50	3,000	158.00/M
	50	0.300	2.0	DMN5L06KDICT-ND	4.00	28.80	3,000	136.00/M
	60	0.300	2.0	DMN601KDICT-ND	4.00	28.80	3,000	136.00/M
	50	0.200	1.4	BSS138-FDICT-ND	4.00	30.00	3,000	150.00/M
	50	0.280	4.0	DMN5L06DICT-ND	4.00	28.80	3,000	136.00/M
	60	0.115	3.2	2N7002-FDICT-ND	4.00	30.00	3,000	150.00/M
	60	0.250	3.5	BS870-FDICT-ND	4.00	30.00	3,000	150.00/M
	60	0.500	5.0	MMBF170-FDICT-ND	3.00	21.60	3,000	102.00/M
	100	0.170	6.0	BSS123-FDICT-ND	4.20	31.50	3,000	158.00/M
	20	.34	.55	DMC2004DWKDICT-ND	4.80	36.00	3,000	180.00/M
N-Channel SOT-523 — RoHS Compliant								
3	60	0.300	2.0	DMN601TKDICT-ND	4.80	36.00	3,000	180.00/M
	60	0.115	2.0	2N7002T-FDICT-ND	4.80	36.00	3,000	180.00/M
NEW! N-Channel SOT-26 — RoHS Compliant NEW!								
6	20	3.3	0.13	DMN2100UDMDICT-ND	4.40	33.00	3,000	165.00/M
	30	3.2	0.13	DMN3115UDMDICT-ND	4.40	33.00	3,000	165.00/M
NEW! N-Channel DFN1006H4-3 — RoHS Compliant NEW!								
11	20	0.200	3.5	DMN2005LP4KDICT-ND	3.60	27.00	3,000	135.00/M
	30	0.300	2.2	DMN32D2LFB4DICT-ND	3.60	27.00	3,000	135.00/M
N-Channel SC-59 — RoHS Compliant								
12	20	1.2	0.10	DMN2112SNDICT-ND	4.40	33.00	3,000	165.00/M
	20	1.2	0.10	DMN2114SNDICT-ND	4.40	33.00	3,000	165.00/M
	30	6	0.04	DMN3033LSNDICT-ND ***NEW!***	4.20	31.50	3,000	158.00/M

▲ Intrinsically Matched NPN Pair † Intrinsically Matched PNP Pair § For Tape and Reel part number, change CT-ND to TR-ND ◆ *RoHS Compliant*

(Continued)

Transistors and MOSFETs

MOSFETs *(Cont.)*

Fig.	V_{DS} (V)	I_D (A)	R_{DS} (on) (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
Dual N-Channel SOT-26 — RoHS Compliant								
6	60	0.305	2.4	DMN601DMKDICT-ND	5.60	42.00	3,000	210.00/M
	20	0.540	0.4	DMN2004DMKDICT-ND	5.60	42.00	3,000	210.00/M
	50	0.305	2.0	DMN5L06DMKDICT-ND	5.60	42.00	3,000	210.00/M
Dual N-Channel SOT-563								
7	50	0.280	2.0	DMN5L06VKDICT-ND◆	4.80	36.00	3,000	180.00/M
	20	0.540	0.4	DMN2004VKDICT-ND◆	4.80	36.00	3,000	180.00/M
	50	0.280	2.0	DMN5L06VAKDICT-ND◆	4.80	36.00	3,000	180.00/M
	60	0.280	13.5	2N7002VDICT-ND	5.40	40.50	3,000	214.00/M
	60	0.305	2.0	DMN601VKDICT-ND◆	5.60	42.00	3,000	210.00/M
	60	0.280	13.5	2N7002VADICT-ND	5.40	40.50	3,000	214.00/M
Dual N-Channel SOT-363 — RoHS Compliant								
8	20	0.540	0.4	DMN2004DWKDICT-ND	5.60	42.00	3,000	210.00/M
	50	0.280	4.0	DMN5L06DWDICT-ND	4.80	36.00	3,000	180.00/M
	50	0.305	2.0	DMN5L06DWKDICT-ND	5.60	42.00	3,000	210.00/M
	50	0.200	3.5	BSS138DW-FDICT-ND	5.94	44.55	3,000	235.00/M
	60	0.305	2.0	DMN601DWKDICT-ND	5.60	42.00	3,000	210.00/M
	60	0.115	6.0	DMN66D0LDWDICT-ND ***NEW!***	5.40	40.50	3,000	203.00/M
	60	0.115	3.2	2N7002DW-FDICT-ND	5.40	40.50	3,000	214.00/M
NEW! Dual N-Channel DFN1310H4-6 — RoHS Compliant NEW!								
9	20	0.20	3.5	DMN2005DLP4KDICT-ND	5.40	40.50	3,000	203.00/M
Dual N-Channel SO-8								
14	60	0.17	3.5	DI9945CT-ND	4.50	3.60	2,500	1800.00/M
	30	0.11	3.7	DI9956CT-ND	4.35	3.48	2,500	1740.00/M
Complementary NPN/PNP SOT-563 — RoHS Compliant								
7	20	.54	0.9	DMC2004VKDICT-ND	5.20	39.00	3,000	195.00/M
P-Channel SOT-323 — RoHS Compliant								
1	50	0.130	10	BSS84W-FDICT-ND	4.40	33.00	3,000	165.00/M
P-Channel SOT-23 — RoHS Compliant								
2	20	2.7	0.215	DMP2215LDICT-ND ***NEW!***	4.20	31.50	3,000	158.00/M
	20	0.600	2.0	DMP2004KDICT-ND ***NEW!***	4.00	28.80	3,000	136.00/M
	50	0.130	10	BSS84-FDICT-ND	4.00	30.00	3,000	150.00/M
NEW! P-Channel SOT-26 — RoHS Compliant NEW!								
6	20	3.4	0.13	DMP2130LDMDICT-ND	5.40	40.50	3,000	203.00/M
P-Channel SOT-563 — RoHS Compliant								
7	20	0.860	0.092	DMP2104VDICT-ND	4.80	36.00	3,000	180.00/M
P-Channel SC-59 — RoHS Compliant								
12	20	0.700	0.23	DMP2012SNDICT-ND	4.40	33.00	3,000	165.00/M
	30	0.700	0.20	DMP3030SNDICT-ND	4.40	33.00	3,000	165.00/M
NEW! P-Channel DFN1411-3 — RoHS Compliant NEW!								
13	20	1.5	0.240	DMP2104LPDICT-ND	4.00	30.00	3,000	150.00/M
Single P-Channel SO-8								
14	30	0.24	3.4	DI9400CT-ND	3.75	3.00	—	—
	20	0.12	4.3	DI9405CT-ND	3.90	3.12	2,500	1560.00/M
	20	0.12	5.3	DI9430CT-ND	4.10	3.28	2,500	1640.00/M
	30	0.064	5.3	DI9435CT-ND	4.15	3.32	2,500	1660.00/M
NEW! Dual P-Channel SOT-26 — RoHS Compliant NEW!								
6	20	2.0	0.240	DMP2240UDMDICT-ND	4.80	36.00	3,000	180.00/M
NEW! Dual P-Channel SOT-563 — RoHS Compliant NEW!								
7	20	0.53	2.0	DMP2004VKDICT-ND	4.80	36.00	3,000	180.00/M
Dual P-Channel SOT-363 — RoHS Compliant								
8	50	0.130	6	BSS84DW-FDICT-ND	5.94	44.55	3,000	235.00/M
N-Channel/P-Channel Array SOT-363 — RoHS Compliant								
8	60 50	0.115 0.130	10	BSS8402DW-FDICT-ND	5.94	44.55	3,000	235.00/M
Dual N and P-Channel SO-8								
14	20	0.11 0.35	3 2.5	DI9942CT-ND	4.50	3.60	—	—
	30	0.11 0.24	3.7 2.9	DI9952CT-ND	4.65	3.72	—	—

▲ Intrinsically Matched NPN Pair † Intrinsically Matched PNP Pair
§ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Application Specific

Description	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel Pricing§ 3,000
SOT-26					
PNP Transistor/N-Mosfet 200mA Load Switch	LMN200B01DICT-ND	.68	5.40	40.50	214.00/M
PNP Transistor/N-Mosfet 400mA Load Switch	LMN400B01DICT-ND	.68	5.40	40.50	214.00/M
SOT-363					
PNP Transistor/N-Mosfet 200mA Load Switch	LMN200B02DICT-ND	.70	5.60	42.00	210.00/M
PNP Transistor/N-Mosfet 400mA Load Switch	LMN400E01DICT-ND	.68	5.40	40.50	214.00/M
Synchronous Rectifier with N-Mosfet and Schottky Diode 200mA	NMSD200B01DICT-ND	.84	7.31	56.25	299.00/M
Complex Transistor Array for Half H-Bridge	HBDM60V600WDICT-ND	.60	4.80	36.00	180.00/M

§ For Tape and Reel part number, change CT-ND to TR-ND

Pre-Biased Small Signal Transistors

Dimensions in mm

SOT-363

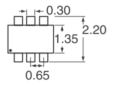

SC-74R/SOT-26

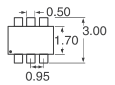

SOT-563

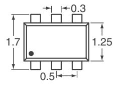

DFN1006-3

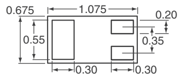

Fig. 1

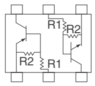

Fig. 2

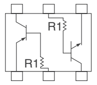

Fig. 3

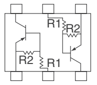

Fig. 4

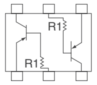

Fig. 5

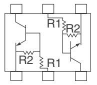

Fig. 6

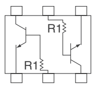

Fig. 7

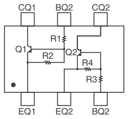

Fig. 8

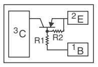

Fig. 9

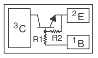

Fig.	H_{FE} Gain	Nominal R1 (Ω)	Nominal R2 (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel Pricing§ 3,000
Complementary NPN/PNP SOT-363								
1	100	10K	10K	DCX114EU-FDICT-ND◆	.55	4.20	30.24	143.00/M
		10K	47K	DCX114YU-FDICT-ND◆	.55	4.20	30.24	143.00/M
		2.2K	47K	DCX123JUDICT-ND	.55	4.20	30.24	143.00/M
		2.2K	47K	DCX123JU-FDICT-ND◆	.55	4.20	30.24	143.00/M
		22K	22K	DCX124EUDICT-ND	.55	4.20	30.24	—
		22K	22K	DCX124EU-FDICT-ND◆	.55	4.20	30.24	143.00/M
		4.7K	4.7K	DCX143EU-FDICT-ND◆	.42	3.36	25.20	126.00/M
		47K	47K	DCX144EUDICT-ND	.55	4.20	30.24	143.00/M
		47K	47K	DCX144EU-FDICT-ND◆	.55	4.20	30.24	143.00/M
2	100	4.7K	—	DCX143TU-FDICT-ND◆	.55	4.20	30.24	143.00/M
Complementary NPN/PNP SC-74R/SOT-26 — RoHS Compliant								
1	100	22K	22K	DCX124EK-FDICT-ND	.42	3.36	25.20	126.00/M
Complementary NPN/PNP SOT-563 — RoHS Compliant								
1	12/50	10K/10K	10K/47K	DCX4710HDICT-ND	.42	3.36	25.20	126.00/M
	33	1K	10K	DCX100NSDICT-ND	.45	3.60	27.00	135.00/M
Dual PNP SOT-363								
3	100	10K	10K	DDA114EUDICT-ND	.47	3.60	25.92	122.00/M
		10K	10K	DDA114EU-FDICT-ND◆	.47	3.60	25.92	122.00/M
		10K	47K	DDA114YUDICT-ND	.47	3.60	25.92	—
		10K	47K	DDA114YU-FDICT-ND◆	.47	3.60	25.92	122.00/M
		2.2K	47K	DDA123JUDICT-ND	.47	3.60	25.92	—
		2.2K	47K	DDA123JU-FDICT-ND◆	.47	3.60	25.92	122.00/M
		22K	22K	DDA124EUDICT-ND	.47	3.60	25.92	—
		22K	22K	DDA124EU-FDICT-ND◆	.47	3.60	25.92	122.00/M
		47K	47K	DDA144EUDICT-ND	.47	3.60	25.92	122.00/M
		47K	47K	DDA144EU-FDICT-ND◆	.47	3.60	25.92	122.00/M
4	100	10K	—	DDA114TUDICT-ND	.47	3.60	25.92	—
		10K	—	DDA114TU-FDICT-ND◆	.47	3.60	25.92	122.00/M
		4.7K	—	DDA143TUDICT-ND	.47	3.60	25.92	122.00/M
		4.7K	—	DDA143TU-FDICT-ND◆	.47	3.60	25.92	122.00/M
Dual NPN SOT-363								
5	100	10K	10K	DDC114EU-FDICT-ND◆	.47	3.60	25.92	122.00/M
		10K	47K	DDC114YU-FDICT-ND◆	.47	3.60	25.92	122.00/M
		2.2K	47K	DDC123JU-FDICT-ND◆	.47	3.60	25.92	122.00/M
		22K	22K	DDC124EUDICT-ND	.47	3.60	25.92	122.00/M
		22K	22K	DDC124EU-FDICT-ND◆	.47	3.60	25.92	122.00/M
		47K	47K	DDC144EU-FDICT-ND◆	.47	3.60	25.92	122.00/M
6	100	10K	—	DDC114TUDICT-ND	.47	3.60	25.92	122.00/M
		10K	—	DDC114TU-FDICT-ND◆	.47	3.60	25.92	122.00/M
		4.7K	—	DDC143TUDICT-ND	.47	3.60	25.92	—
		4.7K	—	DDC143TU-FDICT-ND◆	.47	3.60	25.92	122.00/M
	50	47K	—	DDC144TUDICT-ND◆	.36	2.88	21.60	108.00/M
7	100	47K	47K	DDC144NSDICT-ND◆	.45	3.60	27.00	135.00/M
PNP DFN1006-3 — RoHS Compliant								
8	90	47K	47K	DDTA144ELPDICT-ND	.45	3.60	27.00	135.00/M
NPN DFN1006-3 — RoHS Compliant								
9	10	10K	10K	DDTC114ELPDICT-ND	.45	3.60	27.00	135.00/M
	50	10K	47K	DDTC114YLPDICT-ND	.45	3.60	27.00	135.00/M
	50	2.2K	47K	DDTC123JLPDICT-ND	.45	3.60	27.00	135.00/M

§ For Tape and Reel part number, change CT-ND to TR-ND ◆ ***RoHS Compliant***

DIODES INCORPORATED

Pre-Biased Transistors

Digi-Reel®

Features: • Epitaxial Planar Die Construction **Mechanical Data:** • **Case Material:** UL Flammability Rating 94V-0 • **Terminals:** Solderable per MIL-STD-202, Method 208

SOT-23

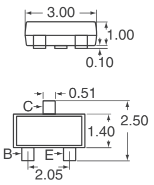

SOT-323

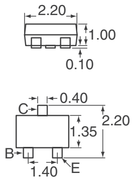

SOT-523

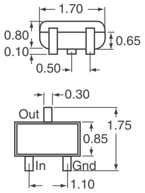

DFN1006-3

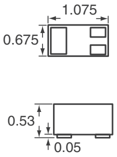

Fig. 1

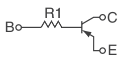

Fig. 2

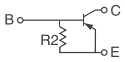

Fig. 3

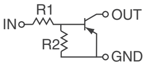

Fig. 4

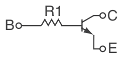

Fig. 5

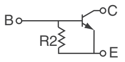

Fig. 6

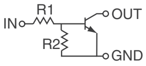

Fig.	Power Dissi-pation (mW)	I_C Max. (mA)	Min. H_{FE} Gain	Nominal R1 (Ω)	Nominal R2 (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel* Pricing 3,000
						PNP SOT-23				
1	200	100	100	1K	—	DDTA113TCADICT-ND	.41	3.00	21.12	86.00/M
				1K	—	DDTA113TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				2.2K	—	DDTA123TCADICT-ND	.41	3.00	21.12	86.00/M
				2.2K	—	DDTA123TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				4.7K	—	DDTA143TCADICT-ND	.41	3.00	21.12	86.00/M
				4.7K	—	DDTA143TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				10K	—	DDTA114TCADICT-ND	.41	3.00	21.12	—
				10K	—	DDTA114TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				22K	—	DDTA124TCADICT-ND	.41	3.00	21.12	—
				22K	—	DDTA124TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				47K	—	DDTA144TCADICT-ND	.41	3.00	21.12	86.00/M
				47K	—	DDTA144TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				100K	—	DDTA115TCADICT-ND	.41	3.00	21.12	86.00/M
				100K	—	DDTA115TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				200K	—	DDTA125TCADICT-ND	.41	3.00	21.12	86.00/M
				200K	—	DDTA125TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
2	200	100	30	—	10K	DDTA114GCADICT-ND	.41	3.00	21.12	86.00/M
			30	—	10K	DDTA114GCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	—	22K	DDTA124GCADICT-ND	.41	3.00	21.12	86.00/M
			56	—	22K	DDTA124GCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	—	47K	DDTA144GCADICT-ND	.41	3.00	21.12	—
			68	—	47K	DDTA144GCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			82	—	100K	DDTA115GCADICT-ND	.41	3.00	21.12	86.00/M
			82	—	100K	DDTA115GCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
3	200	100	20	2.2K	2.2K	DDTA123ECADICT-ND	.41	3.00	21.12	—
			20	2.2K	2.2K	DDTA123ECA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTA143ECADICT-ND	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTA143ECA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			24	10K	4.7K	DDTA114WCADICT-ND	.41	3.00	21.12	—
			24	10K	4.7K	DDTA114WCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			30	4.7K	10K	DDTA143XCADICT-ND	.41	3.00	21.12	—
			30	4.7K	10K	DDTA143XCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			30	10K	10K	DDTA114ECA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			33	1K	10K	DDTA113ZCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTA123YCADICT-ND	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTA123YCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTA144VCADICT-ND	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTA144VCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	22K	22K	DDTA124ECADICT-ND	.41	3.00	21.12	86.00/M
			56	22K	22K	DDTA124ECA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTA144WCADICT-ND	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTA144WCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	10K	47K	DDTA114YCADICT-ND	.41	3.00	21.12	—
			68	10K	47K	DDTA114YCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTA124XCADICT-ND	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTA124XCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	47K	47K	DDTA144ECADICT-ND	.41	3.00	21.12	—
			68	47K	47K	DDTA144ECA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTA123JCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTA143ZCADICT-ND	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTA143ZCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTA115ECADICT-ND	.41	3.00	21.12	—
			82	100K	100K	DDTA115ECA-FDICT-ND◆	.41	3.00	21.12	86.00/M
		500	56	0.22K	10K	DDTB122LCDICT-ND	.41	3.00	21.12	—
			56	0.22K	10K	DDTB122LC-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTB142JC-FDICT-ND◆	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTB122TCDICT-ND	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTB122TC-FDICT-ND◆	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTB142TCDICT-ND	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTB142TC-FDICT-ND◆	.41	3.00	21.12	86.00/M
						PNP SOT-323				
1	200	100	100	1K	—	DDTA113TUADICT-ND	.41	3.00	21.12	—
				1K	—	DDTA113TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				2.2K	—	DDTA123TUADICT-ND	.41	3.00	21.12	86.00/M
				2.2K	—	DDTA123TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				4.7K	—	DDTA143TUADICT-ND	.41	3.00	21.12	—
				4.7K	—	DDTA143TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				10K	—	DDTA114TUADICT-ND	.41	3.00	21.12	86.00/M
				10K	—	DDTA114TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				22K	—	DDTA124TUADICT-ND	.41	3.00	21.12	86.00/M
				22K	—	DDTA124TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				100K	—	DDTA115TUADICT-ND	.41	3.00	21.12	86.00/M
				100K	—	DDTA115TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				200K	—	DDTA125TUADICT-ND	.41	3.00	21.12	86.00/M
				200K	—	DDTA125TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
2	200	100	30	—	10K	DDTA114GUADICT-ND	.41	3.00	21.12	86.00/M
			30	—	10K	DDTA114GUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	—	22K	DDTA124GUADICT-ND	.41	3.00	21.12	86.00/M
			56	—	22K	DDTA124GUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	—	47K	DDTA144GUADICT-ND	.41	3.00	21.12	86.00/M
			68	—	47K	DDTA144GUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			82	—	100K	DDTA115GUADICT-ND	.41	3.00	21.12	86.00/M
			82	—	100K	DDTA115GUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
3	200	100	33	1K	10K	DDTA113ZUADICT-ND	.41	3.00	21.12	—
			33	1K	10K	DDTA113ZUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			20	2.2K	2.2K	DDTA123EUADICT-ND	.41	3.00	21.12	86.00/M
			20	2.2K	2.2K	DDTA123EUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTA123YUADICT-ND	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTA123YUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTA123JUADICT-ND	.41	3.00	21.12	—
			80	2.2K	47K	DDTA123JUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTA143EUADICT-ND	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTA143EUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			30	4.7K	10K	DDTA143XUADICT-ND	.41	3.00	21.12	86.00/M
			30	4.7K	10K	DDTA143XUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	4.7K	22K	DDTA143FUADICT-ND	.41	3.00	21.12	86.00/M
			68	4.7K	22K	DDTA143FUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTA143ZUADICT-ND	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTA143ZUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			24	10K	4.7K	DDTA114WUADICT-ND	.41	3.00	21.12	86.00/M
			24	10K	4.7K	DDTA114WUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			30	10K	10K	DDTA114EUADICT-ND	.41	3.00	21.12	—
			30	10K	10K	DDTA114EUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	10K	47K	DDTA114YUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTA124XUADICT-ND	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTA124XUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTA144VUADICT-ND	.41	3.00	21.12	—
			33	47K	10K	DDTA144VUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTA144WUADICT-ND	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTA144WUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	47K	47K	DDTA144EUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTA115EUADICT-ND	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTA115EUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTA122LUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTA122LU-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTA142JUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTA142JU-FDICT-ND◆	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTA122TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTA122TU-FDICT-ND◆	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTA142TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTA142TU-FDICT-ND◆	.41	3.00	21.12	86.00/M
		500	56	0.22K	10K	DDTB122LUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTB122LU-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTB142JUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTB142JU-FDICT-ND◆	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTB122TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTB122TU-FDICT-ND◆	.41	3.00	21.12	86.00/M
						PNP SOT-523				
1	150	100	250	1K	—	DDTA113TEDICT-ND	.39	3.00	21.60	102.00/M
				1K	—	DDTA113TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
				4.7K	—	DDTA143TEDICT-ND	.39	3.00	21.60	102.00/M
				4.7K	—	DDTA143TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
				47K	—	DDTA144TEDICT-ND	.39	3.00	21.60	102.00/M
				47K	—	DDTA144TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
2	150	100	68	—	47K	DDTA144GEDICT-ND	.39	3.00	21.60	102.00/M
			68	—	47K	DDTA144GE-FDICT-ND◆	.39	3.00	21.60	102.00/M
3	150	100	30	4.7K	10K	DDTA143XEDICT-ND	.39	3.00	21.60	102.00/M
			30	4.7K	10K	DDTA143XE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			68	4.7K	22K	DDTA143FEDICT-ND	.39	3.00	21.60	102.00/M
			68	4.7K	22K	DDTA143FE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			80	4.7K	47K	DDTA143ZEDICT-ND	.39	3.00	21.60	—
			80	4.7K	47K	DDTA143ZE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			33	47K	10K	DDTA144VEDICT-ND	.39	3.00	21.60	102.00/M
			33	47K	10K	DDTA144VE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			56	47K	22K	DDTA144WEDICT-ND	.39	3.00	21.60	—
			56	47K	22K	DDTA144WE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			68	47K	47K	DDTA144EEDICT-ND	.39	3.00	21.60	102.00/M
			68	47K	47K	DDTA144EE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			56	0.22K	10K	DDTA122LEDICT-ND	.39	3.00	21.60	102.00/M
			56	0.22K	10K	DDTA122LE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			56	0.47K	10K	DDTA142JEDICT-ND	.39	3.00	21.60	102.00/M
			56	0.47K	10K	DDTA142JE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			250	0.22K	—	DDTA122TEDICT-ND	.39	3.00	21.60	102.00/M
			250	0.22K	—	DDTA122TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			250	0.47K	—	DDTA142TEDICT-ND	.39	3.00	21.60	102.00/M
			250	0.47K	—	DDTA142TE-FDICT-ND◆	.39	3.00	21.60	102.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

(Continued)

DIODES Pre-Biased Transistors *(Cont.)*

Digi-Reel®

Fig.	Power Dissipation (mW)	I_C Max. (mA)	Min. H_{FE} Gain	Nominal R1 (Ω)	Nominal R2 (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel* Pricing 3,000
NPN SOT-23										
4	200	100	100	1K	—	DDTC113TCADICT-ND	.41	3.00	21.12	86.00/M
				1K	—	DDTC113TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				2.2K	—	DDTC123TCADICT-ND	.41	3.00	21.12	86.00/M
				2.2K	—	DDTC123TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				4.7K	—	DDTC143TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				10K	—	DDTC114TCADICT-ND	.41	3.00	21.12	—
				10K	—	DDTC114TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				22	—	DDTC124TCADICT-ND	.41	3.00	21.12	86.00/M
				22	—	DDTC124TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				47K	—	DDTC144TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				100K	—	DDTC115TCADICT-ND	.41	3.00	21.12	86.00/M
				100K	—	DDTC115TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				200K	—	DDTC125TCADICT-ND	.41	3.00	21.12	86.00/M
				200K	—	DDTC125TCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
5	200	100	30	—	10K	DDTC114GCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	—	22K	DDTC124GCADICT-ND	.41	3.00	21.12	86.00/M
			56	—	22K	DDTC124GCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	—	47K	DDTC144GCADICT-ND	.41	3.00	21.12	86.00/M
			68	—	47K	DDTC144GCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			82	—	100K	DDTC115GCADICT-ND	.41	3.00	21.12	—
			82	—	100K	DDTC115GCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
6	200	100	20	2.2K	2.2K	DDTC123ECA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTC143ECADICT-ND	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTC143ECA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			24	10K	4.7K	DDTC114WCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			30	4.7K	10K	DDTC143XCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			30	10K	10K	DDTC114ECA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			33	1K	10K	DDTC113ZCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTC123YCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTC144VCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	22K	22K	DDTC124ECADICT-ND	.41	3.00	21.12	—
			56	22K	22K	DDTC124ECA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTC144WCADICT-ND	.41	3.00	21.12	—
			56	47K	22K	DDTC144WCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	4.7K	22K	DDTC143FCADICT-ND	.41	3.00	21.12	86.00/M
			68	4.7K	22K	DDTC143FCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	10K	47K	DDTC114YCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
		200	68	22K	47K	DDTC124XCADICT-ND	.41	3.00	21.12	—
			68	22K	47K	DDTC124XCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	47K	47K	DDTC144ECADICT-ND	.41	3.00	21.12	86.00/M
			68	47K	47K	DDTC144ECA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTC123JCADICT-ND	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTC123JCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTC143ZCADICT-ND	.41	3.00	21.12	—
			80	4.7K	47K	DDTC143ZCA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTC115ECA-FDICT-ND◆	.41	3.00	21.12	86.00/M
		500	56	0.22K	10K	DDTD122LC-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTD142JCDICT-ND	.41	3.00	21.12	—
			56	0.47K	10K	DDTD142JC-FDICT-ND◆	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTD122TCDICT-ND	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTD122TC-FDICT-ND◆	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTD142TCDICT-ND	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTD142TC-FDICT-ND◆	.41	3.00	21.12	86.00/M
NPN SOT-323										
4	200	100	100	1K	—	DDTC113TUADICT-ND	.41	3.00	21.12	86.00/M
				1K	—	DDTC113TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				2.2K	—	DDTC123TUADICT-ND	.41	3.00	21.12	86.00/M
				2.2K	—	DDTC123TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				4.7K	—	DDTC143TUADICT-ND	.41	3.00	21.12	86.00/M
				4.7K	—	DDTC143TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				10K	—	DDTC114TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				22K	—	DDTC124TUADICT-ND	.41	3.00	21.12	86.00/M
				22K	—	DDTC124TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				47K	—	DDTC144TUADICT-ND	.41	3.00	21.12	86.00/M
				47K	—	DDTC144TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				100K	—	DDTC115TUADICT-ND	.41	3.00	21.12	86.00/M
				100K	—	DDTC115TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
				200K	—	DDTC125TUADICT-ND	.41	3.00	21.12	86.00/M
				200K	—	DDTC125TUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
5	200	100	30	—	10K	DDTC114GUADICT-ND	.41	3.00	21.12	—
			30	—	10K	DDTC114GUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	—	22K	DDTC124GUADICT-ND	.41	3.00	21.12	86.00/M
			56	—	22K	DDTC124GUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	—	47K	DDTC144GUADICT-ND	.41	3.00	21.12	86.00/M
			68	—	47K	DDTC144GUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			82	—	100K	DDTC115GUADICT-ND	.41	3.00	21.12	86.00/M
			82	—	100K	DDTC115GUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
6	200	100	20	2.2K	2.2K	DDTC123EUADICT-ND	.41	3.00	21.12	—
			20	2.2K	2.2K	DDTC123EUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTC143EUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			30	10K	10K	DDTC114EUADICT-ND	.41	3.00	21.12	86.00/M
			30	10K	10K	DDTC114EUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	47K	47K	DDTC144EUADICT-ND	.41	3.00	21.12	—
			68	47K	47K	DDTC144EUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTC115EUADICT-ND	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTC115EUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			33	1K	10K	DDTC113ZUADICT-ND	.41	3.00	21.12	86.00/M
			33	1K	10K	DDTC113ZUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTC123YUADICT-ND	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTC123YUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTC123JUADICT-ND	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTC123JUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
6	200	100	30	4.7K	10K	DDTC143XUA-FDICT-ND◆	.41	3.00	21.12	—
			68	4.7K	22K	DDTC143FUADICT-ND	.41	3.00	21.12	—
			68	4.7K	22K	DDTC143FUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTC143ZUADICT-ND	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTC143ZUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	10K	4.7K	DDTC114WUADICT-ND	.41	3.00	21.12	86.00/M
			68	10K	4.7K	DDTC114WUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			24	10K	47K	DDTC114YUADICT-ND	.41	3.00	21.12	86.00/M
			24	10K	47K	DDTC114YUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTC124XUADICT-ND	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTC124XUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTC144VUADICT-ND	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTC144VUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTC144WUADICT-ND	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTC144WUA-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTC122LUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTC122LU-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTC142JUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTC142JU-FDICT-ND◆	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTC122TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTC122TU-FDICT-ND◆	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTC142TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTC142TU-FDICT-ND◆	.41	3.00	21.12	86.00/M
		500	56	0.22K	10K	DDTD122LUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTD122LU-FDICT-ND◆	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTD142JUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTD142JU-FDICT-ND◆	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTD122TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTD122TU-FDICT-ND◆	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTD142TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTD142TU-FDICT-ND◆	.41	3.00	21.12	86.00/M
NPN SOT-523										
4	150	100	250	1K	—	DDTC113TEDICT-ND	.39	3.00	21.60	—
				1K	—	DDTC113TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
				2.2K	—	DDTC123TEDICT-ND	.39	3.00	21.60	102.00/M
				2.2K	—	DDTC123TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
				4.7K	—	DDTC143TEDICT-ND	.39	3.00	21.60	102.00/M
				4.7K	—	DDTC143TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
				10K	—	DDTC114TEDICT-ND	.39	3.00	21.60	102.00/M
				10K	—	DDTC114TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
				22K	—	DDTC124TEDICT-ND	.39	3.00	21.60	102.00/M
				22K	—	DDTC124TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
				47K	—	DDTC144TEDICT-ND	.39	3.00	21.60	102.00/M
				47K	—	DDTC144TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
				100K	—	DDTC115TEDICT-ND	.39	3.00	21.60	102.00/M
				100K	—	DDTC115TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
				200K	—	DDTC125TEDICT-ND	.39	3.00	21.60	102.00/M
				200K	—	DDTC125TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
5	150	100	30	—	10K	DDTC114GEDICT-ND	.39	3.00	21.60	102.00/M
			30	—	10K	DDTC114GE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			56	—	22K	DDTC124GEDICT-ND	.39	3.00	21.60	102.00/M
			56	—	22K	DDTC124GE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			68	—	47K	DDTC144GEDICT-ND	.39	3.00	21.60	102.00/M
			68	—	47K	DDTC144GE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			82	—	100K	DDTC115GEDICT-ND	.39	3.00	21.60	102.00/M
			82	—	100K	DDTC115GE-FDICT-ND◆	.39	3.00	21.60	102.00/M
6	150	100	33	1K	10K	DDTC113ZEDICT-ND	.39	3.00	21.60	102.00/M
			33	1K	10K	DDTC113ZE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			33	2.2K	10K	DDTC123YEDICT-ND	.39	3.00	21.60	—
			33	2.2K	10K	DDTC123YE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			80	2.2K	47K	DDTC123JEDICT-ND	.39	3.00	21.60	102.00/M
			80	2.2K	47K	DDTC123JE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			30	4.7K	10K	DDTC143XEDICT-ND	.39	3.00	21.60	102.00/M
			30	4.7K	10K	DDTC143XE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			68	4.7K	22K	DDTC143FEDICT-ND	.39	3.00	21.60	102.00/M
			68	4.7K	22K	DDTC143FE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			80	4.7K	47K	DDTC143ZEDICT-ND	.39	3.00	21.60	—
			24	10K	4.7K	DDTC114WEDICT-ND	.39	3.00	21.60	102.00/M
			24	10K	4.7K	DDTC114WE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			68	10K	47K	DDTC114YE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			68	22K	47K	DDTC124XEDICT-ND	.39	3.00	21.60	102.00/M
			68	22K	47K	DDTC124XE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			33	47K	10K	DDTC144VEDICT-ND	.39	3.00	21.60	102.00/M
			33	47K	10K	DDTC144VE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			56	47K	22K	DDTC144WEDICT-ND	.39	3.00	21.60	102.00/M
			56	47K	22K	DDTC144WE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			20	2.2K	2.2K	DDTC123EEDICT-ND	.39	3.00	21.60	102.00/M
			20	2.2K	2.2K	DDTC123EE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			20	4.7K	4.7K	DDTC143EEDICT-ND	.39	3.00	21.60	—
			20	4.7K	4.7K	DDTC143EE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			30	10K	10K	DDTC114EEDICT-ND	.39	3.00	21.60	—
			30	10K	10K	DDTC114EE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			68	47K	47K	DDTC144EE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			82	100K	100K	DDTC115EEDICT-ND	.39	3.00	21.60	102.00/M
			82	100K	100K	DDTC115EE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			56	0.22K	10K	DDTC122LEDICT-ND	.39	3.00	21.60	102.00/M
			56	0.22K	10K	DDTC122LE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			56	0.47K	10K	DDTC142JEDICT-ND	.39	3.00	21.60	102.00/M
			56	0.47K	10K	DDTC142JE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			250	0.22K	—	DDTC122TEDICT-ND	.39	3.00	21.60	102.00/M
			250	0.22K	—	DDTC122TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
			250	0.47K	—	DDTC142TEDICT-ND	.39	3.00	21.60	102.00/M
			250	0.47K	—	DDTC142TE-FDICT-ND◆	.39	3.00	21.60	102.00/M
NPN DFN1006-3 — RoHS Compliant										
6	250	100	50	4.7K	47K	DDTC143ZLPDICT-ND	.50	4.00	30.00	150.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

DIODES Zener Diodes

DO-35 Zener Diodes 500mW (+5%)

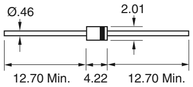

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 10,000
3.3	20	28	1N5226BDICT-ND	.36	2.10	13.65	56.70	—	—
3.6	20	24	1N5227BDICT-ND	.36	2.10	13.65	56.70	—	—
3.9	20	23	1N5228BDICT-ND	.36	2.10	13.65	56.70	1N5228BDITR-ND	36.00/M
4.3	20	22	1N5229BDICT-ND	.36	2.10	13.65	56.70	1N5229BDITR-ND	36.00/M
4.7	20	19	1N5230BDICT-ND	.36	2.10	13.65	56.70	1N5230BDITR-ND	36.00/M
5.1	20	17	1N5231BDICT-ND	.36	2.10	13.65	56.70	1N5231BDITR-ND	36.00/M
5.6	20	11	1N5232BDICT-ND	.36	2.10	13.65	56.70	1N5232BDITR-ND	36.00/M
6.0	20	7	1N5233BDICT-ND	.36	2.10	13.65	56.70	1N5233BDITR-ND	36.00/M
6.2	20	7	1N5234BDICT-ND	.36	2.10	13.65	56.70	1N5234BDITR-ND	36.00/M
6.8	20	5	1N5235BDICT-ND	.36	2.10	13.65	56.70	1N5235BDITR-ND	36.00/M
7.5	20	6	1N5236BDICT-ND	.36	2.10	13.65	56.70	1N5236BDITR-ND	36.00/M
8.2	20	8	1N5237BDICT-ND	.36	2.10	13.65	56.70	1N5237BDITR-ND	36.00/M
8.7	20	8	1N5238BDICT-ND	.36	2.10	13.65	56.70	1N5238BDITR-ND	36.00/M
9.1	20	10	1N5239BDICT-ND	.36	2.10	13.65	56.70	1N5239BDITR-ND	36.00/M
10	20	17	1N5240BDICT-ND	.36	2.10	13.65	56.70	1N5240BDITR-ND	36.00/M
11	20	22	1N5241BDICT-ND	.36	2.10	13.65	56.70	1N5241BDITR-ND	36.00/M
12	20	30	1N5242BDICT-ND	.36	2.10	13.65	56.70	1N5242BDITR-ND	36.00/M
13	9.5	13	1N5243BDICT-ND	.36	2.10	13.65	56.70	1N5243BDITR-ND	36.00/M
14	9.0	15	1N5244BDICT-ND	.36	2.10	13.65	56.70	1N5244BDITR-ND	36.00/M
15	8.5	16	1N5245BDICT-ND	.36	2.10	13.65	56.70	1N5245BDITR-ND	36.00/M
16	7.8	17	1N5246BDICT-ND	.36	2.10	13.65	56.70	1N5246BDITR-ND	36.00/M
17	7.4	19	1N5247BDICT-ND	.36	2.10	13.65	56.70	1N5247BDITR-ND	36.00/M
18	7.0	21	1N5248BDICT-ND	.36	2.10	13.65	56.70	1N5248BDITR-ND	36.00/M
19	6.6	23	1N5249BDICT-ND	.36	2.10	13.65	56.70	1N5249BDITR-ND	36.00/M
20	6.2	25	1N5250BDICT-ND	.36	2.10	13.65	56.70	1N5250BDITR-ND	36.00/M
22	5.6	29	1N5251BDICT-ND	.36	2.10	13.65	56.70	1N5251BDITR-ND	36.00/M
24	5.2	33	1N5252BDICT-ND	.36	2.10	13.65	56.70	1N5252BDITR-ND	36.00/M
25	5.0	35	1N5253BDICT-ND	.36	2.10	13.65	56.70	1N5253BDITR-ND	36.00/M
27	4.6	41	1N5254BDICT-ND	.36	2.10	13.65	56.70	1N5254BDITR-ND	36.00/M
28	4.5	44	1N5255BDICT-ND	.36	2.10	13.65	56.70	1N5255BDITR-ND	36.00/M
30	4.2	49	1N5256BDICT-ND	.36	2.10	13.65	56.70	1N5256BDITR-ND	36.00/M
33	3.8	58	1N5257BDICT-ND	.36	2.10	13.65	56.70	1N5257BDITR-ND	36.00/M
36	3.4	70	1N5258BDICT-ND	.36	2.10	13.65	56.70	1N5258BDITR-ND	36.00/M
39	3.2	80	1N5259BDICT-ND	.36	2.10	13.65	56.70	1N5259BDITR-ND	36.00/M
43	3.0	93	1N5260BDICT-ND	.36	2.10	13.65	56.70	1N5260BDITR-ND	36.00/M
47	2.7	105	1N5261BDICT-ND	.36	2.10	13.65	56.70	1N5261BDITR-ND	36.00/M
51	2.5	125	1N5262BDICT-ND	.36	2.10	13.65	56.70	1N5262BDITR-ND	36.00/M

DO-41 Zener Diodes – 1W (+5%)

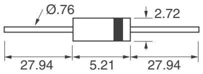

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 5,000
3.3	76	10.0	1N4728ADICT-ND	.36	2.48	17.16	75.90	1N4728ADITR-ND	59.00/M
3.6	69	10.0	1N4729ADICT-ND	.36	2.48	17.16	75.90	1N4729ADITR-ND	59.00/M
3.9	64	9.0	1N4730ADICT-ND	.36	2.48	17.16	75.90	1N4730ADITR-ND	59.00/M
4.3	58	9.0	1N4731ADICT-ND	.36	2.48	17.16	75.90	1N4731ADITR-ND	59.00/M
4.7	53	8.0	1N4732ADICT-ND	.36	2.48	17.16	75.90	1N4732ADITR-ND	59.00/M
5.1	49	7.0	1N4733ADICT-ND	.36	2.48	17.16	75.90	1N4733ADITR-ND	59.00/M
5.6	45	5.0	1N4734ADICT-ND	.36	2.48	17.16	75.90	1N4734ADITR-ND	59.00/M
6.2	41	2.0	1N4735ADICT-ND	.36	2.48	17.16	75.90	1N4735ADITR-ND	59.00/M
6.8	37	3.5	1N4736ADICT-ND	.36	2.48	17.16	75.90	1N4736ADITR-ND	59.00/M
7.5	34	4.0	1N4737ADICT-ND	.36	2.48	17.16	75.90	1N4737ADITR-ND	59.00/M
8.2	31	4.5	1N4738ADICT-ND	.36	2.48	17.16	75.90	1N4738ADITR-ND	59.00/M
9.1	28	5.0	1N4739ADICT-ND	.36	2.48	17.16	75.90	1N4739ADITR-ND	59.00/M
10	25	7.0	1N4740ADICT-ND	.36	2.48	17.16	75.90	1N4740ADITR-ND	59.00/M
11	23	8	1N4741ADICT-ND	.36	2.48	17.16	75.90	1N4741ADITR-ND	59.00/M
12	21	9	1N4742ADICT-ND	.36	2.48	17.16	75.90	1N4742ADITR-ND	59.00/M
13	19	10	1N4743ADICT-ND	.36	2.48	17.16	75.90	1N4743ADITR-ND	59.00/M
15	17	14	1N4744ADICT-ND	.36	2.48	17.16	75.90	1N4744ADITR-ND	59.00/M
16	15	16	1N4745ADICT-ND	.36	2.48	17.16	75.90	1N4745ADITR-ND	59.00/M
18	14	20	1N4746ADICT-ND	.36	2.48	17.16	75.90	1N4746ADITR-ND	59.00/M
20	12.5	22	1N4747ADICT-ND	.36	2.48	17.16	75.90	1N4747ADITR-ND	59.00/M
22	11.5	23	1N4748ADICT-ND	.36	2.48	17.16	75.90	1N4748ADITR-ND	59.00/M
24	10.5	25	1N4749ADICT-ND	.36	2.48	17.16	75.90	1N4749ADITR-ND	59.00/M
27	9.5	35	1N4750ADICT-ND	.36	2.48	17.16	75.90	1N4750ADITR-ND	59.00/M
30	8.5	40	1N4751ADICT-ND	.36	2.48	17.16	75.90	1N4751ADITR-ND	59.00/M
33	7.5	45	1N4752ADICT-ND	.36	2.48	17.16	75.90	1N4752ADITR-ND	59.00/M
36	7	50	1N4753ADICT-ND	.36	2.48	17.16	75.90	1N4753ADITR-ND	59.00/M
39	6.5	60	1N4754ADICT-ND	.36	2.48	17.16	75.90	1N4754ADITR-ND	59.00/M
43	6	70	1N4755ADICT-ND	.36	2.48	17.16	75.90	1N4755ADITR-ND	59.00/M
47	55	80	1N4756ADICT-ND	.36	2.48	17.16	75.90	1N4756ADITR-ND	59.00/M
51	5	95	1N4757ADICT-ND	.36	2.48	17.16	75.90	1N4757ADITR-ND	59.00/M
56	4.5	110	1N4758ADICT-ND	.36	2.48	17.16	75.90	1N4758ADITR-ND	59.00/M
62	4	125	1N4759ADICT-ND	.36	2.48	17.16	75.90	1N4759ADITR-ND	59.00/M
68	3.7	150	1N4760ADICT-ND	.36	2.48	17.16	75.90	1N4760ADITR-ND	59.00/M
75	3.3	175	1N4761ADICT-ND	.36	2.48	17.16	75.90	1N4761ADITR-ND	59.00/M

PowerDI™ 123 Surface Mount Power Zener Diodes – 1W

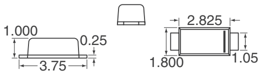

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
5.1	100	6	DFLZ5V1DICT-ND	.60	4.80	36.00	192.00	DFLZ5V1DITR-ND	180.00/M
5.6	100	4	DFLZ5V6DICT-ND	.60	4.80	36.00	192.00	DFLZ5V6DITR-ND	180.00/M
6.2	100	3	DFLZ6V2DICT-ND	.60	4.80	36.00	192.00	DFLZ6V2DITR-ND	180.00/M
6.8	100	3	DFLZ6V8DICT-ND	.60	4.80	36.00	192.00	DFLZ6V8DITR-ND	180.00/M
8.2	100	2	DFLZ8V2DICT-ND	.60	4.80	36.00	192.00	DFLZ8V2DITR-ND	180.00/M
9.1	50	4	DFLZ9V1DICT-ND	.60	4.80	36.00	192.00	DFLZ9V1DITR-ND	180.00/M
10	50	4	DFLZ10DICT-ND	.60	4.80	36.00	192.00	DFLZ10DITR-ND	180.00/M
12	50	7	DFLZ12DICT-ND	.60	4.80	36.00	192.00	DFLZ12DITR-ND	180.00/M
15	50	10	DFLZ15DICT-ND	.60	4.80	36.00	192.00	DFLZ15DITR-ND	180.00/M
16	25	15	DFLZ16DICT-ND	.60	4.80	36.00	192.00	DFLZ16DITR-ND	180.00/M
18	25	15	DFLZ18DICT-ND	.60	4.80	36.00	192.00	DFLZ18DITR-ND	180.00/M
20	25	15	DFLZ20DICT-ND	.60	4.80	36.00	192.00	DFLZ20DITR-ND	180.00/M
24	25	15	DFLZ24DICT-ND	.60	4.80	36.00	192.00	DFLZ24DITR-ND	180.00/M
27	25	15	DFLZ27DICT-ND	.60	4.80	36.00	192.00	DFLZ27DITR-ND	180.00/M
30	25	15	DFLZ30DICT-ND	.60	4.80	36.00	192.00	DFLZ30DITR-ND	180.00/M
33	25	15	DFLZ33DICT-ND	.60	4.80	36.00	192.00	DFLZ33DITR-ND	180.00/M
39	10	40	DFLZ39DICT-ND	.60	4.80	36.00	192.00	DFLZ39DITR-ND	180.00/M

PowerDI™ 323 Zener Diodes – 500mW

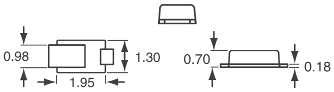

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
2.4	5.0	100	PD3Z284C2V4DICT-ND	.60	4.80	36.00	PD3Z284C2V4DITR-ND	180.00/M
2.7	5.0	100	PD3Z284C2V7DICT-ND	.60	4.80	36.00	PD3Z284C2V7DITR-ND	180.00/M
3.0	5.0	95	PD3Z284C3V0DICT-ND	.60	4.80	36.00	PD3Z284C3V0DITR-ND	180.00/M
3.3	5.0	95	PD3Z284C3V3DICT-ND	.60	4.80	36.00	PD3Z284C3V3DITR-ND	180.00/M
3.6	5.0	90	PD3Z284C3V6DICT-ND	.60	4.80	36.00	PD3Z284C3V6DITR-ND	180.00/M
3.9	5.0	90	PD3Z284C3V9DICT-ND	.60	4.80	36.00	PD3Z284C3V9DITR-ND	180.00/M
4.3	5.0	90	PD3Z284C4V3DICT-ND	.60	4.80	36.00	PD3Z284C4V3DITR-ND	180.00/M
4.7	5.0	80	PD3Z284C4V7DICT-ND	.60	4.80	36.00	PD3Z284C4V7DITR-ND	180.00/M
5.1	5.0	60	PD3Z284C5V1DICT-ND	.60	4.80	36.00	PD3Z284C5V1DITR-ND	180.00/M
5.6	5.0	40	PD3Z284C5V6DICT-ND	.60	4.80	36.00	PD3Z284C5V6DITR-ND	180.00/M
6.2	5.0	10	PD3Z284C6V2DICT-ND	.60	4.80	36.00	PD3Z284C6V2DITR-ND	180.00/M
6.8	5.0	15	PD3Z284C6V8DICT-ND	.60	4.80	36.00	PD3Z284C6V8DITR-ND	180.00/M
7.5	5.0	10	PD3Z284C7V5DICT-ND	.60	4.80	36.00	PD3Z284C7V5DITR-ND	180.00/M
8.2	5.0	10	PD3Z284C8V2DICT-ND	.60	4.80	36.00	PD3Z284C8V2DITR-ND	180.00/M
9.1	5.0	10	PD3Z284C9V1DICT-ND	.60	4.80	36.00	PD3Z284C9V1DITR-ND	180.00/M
10	5.0	10	PD3Z284C10DICT-ND	.60	4.80	36.00	PD3Z284C10DITR-ND	180.00/M
11	5.0	10	PD3Z284C11DICT-ND	.60	4.80	36.00	PD3Z284C11DITR-ND	180.00/M
12	5.0	10	PD3Z284C12DICT-ND	.60	4.80	36.00	PD3Z284C12DITR-ND	180.00/M
13	5.0	10	PD3Z284C13DICT-ND	.60	4.80	36.00	PD3Z284C13DITR-ND	180.00/M
15	5.0	15	PD3Z284C15DICT-ND	.60	4.80	36.00	PD3Z284C15DITR-ND	180.00/M
16	5.0	20	PD3Z284C16DICT-ND	.60	4.80	36.00	PD3Z284C16DITR-ND	180.00/M
18	5.0	20	PD3Z284C18DICT-ND	.60	4.80	36.00	PD3Z284C18DITR-ND	180.00/M
20	5.0	20	PD3Z284C20DICT-ND	.60	4.80	36.00	PD3Z284C20DITR-ND	180.00/M
22	5.0	25	PD3Z284C22DICT-ND	.60	4.80	36.00	PD3Z284C22DITR-ND	180.00/M
24	5.0	30	PD3Z284C24DICT-ND	.60	4.80	36.00	PD3Z284C24DITR-ND	180.00/M
27	2.0	40	PD3Z284C27DICT-ND	.60	4.80	36.00	PD3Z284C27DITR-ND	180.00/M
30	2.0	40	PD3Z284C30DICT-ND	.60	4.80	36.00	PD3Z284C30DITR-ND	180.00/M
33	2.0	40	PD3Z284C33DICT-ND	.60	4.80	36.00	PD3Z284C33DITR-ND	180.00/M
36	2.0	60	PD3Z284C36DICT-ND	.60	4.80	36.00	PD3Z284C36DITR-ND	180.00/M
39	2.0	75	PD3Z284C39DICT-ND	.60	4.80	36.00	PD3Z284C39DITR-ND	180.00/M

SOD-123 Surface Mount Zener Diodes – 500mW

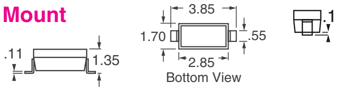

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
			BZT Series					
2.4	5	100	BZT52C2V4-FDICT-ND◆ —	3.13 —	22.00 —	100.00 —	BZT52C2V4-FDITR-ND◆ BZT52C2V4-13DITR-ND†	90.00/M 78.00/M
2.7	5	100	BZT52C2V7-FDICT-ND◆ —	3.13 —	22.00 —	100.00 —	BZT52C2V7-FDITR-ND◆ BZT52C2V7-13DITR-ND†	90.00/M 78.00/M
3.0	5	95	BZT52C3V0-FDICT-ND◆ —	3.13 —	22.00 —	100.00 —	BZT52C3V0-FDITR-ND◆ BZT52C3V0-13DITR-ND†	90.00/M 78.00/M
3.3	5	95	BZT52C3V3-FDICT-ND◆ —	1.88 —	13.20 —	60.00 —	BZT52C3V3-FDITR-ND◆ BZT52C3V3-13DITR-ND†	54.00/M 78.00/M
3.6	5	90	BZT52C3V6-7DICT-ND BZT52C3V6-FDICT-ND◆ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	BZT52C3V6-7DITR-ND BZT52C3V6-FDITR-ND◆ BZT52C3V6-13DITR-ND†	90.00/M 90.00/M 78.00/M
3.9	5	90	BZT52C3V9-FDICT-ND◆	3.13	22.00	100.00	BZT52C3V9-FDITR-ND◆	90.00/M
4.3	5	90	BZT52C4V3-FDICT-ND◆ —	3.13 —	22.00 —	100.00 —	BZT52C4V3-FDITR-ND◆ BZT52C4V3-13DITR-ND†	90.00/M 78.00/M
4.7	5	80	BZT52C4V7-FDICT-ND◆ BZT52C4V7-13-FDICT-ND◆ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	BZT52C4V7-FDITR-ND◆ BZT52C4V7-13-FDITR-ND◆† BZT52C4V7-13DITR-ND†	90.00/M 78.00/M 78.00/M
5.1	5	60	BZT52C5V1-FDICT-ND◆ —	3.13 —	22.00 —	100.00 —	BZT52C5V1-FDITR-ND◆ BZT52C5V1-13DITR-ND†	90.00/M 78.00/M
5.6	5	40	BZT52C5V6-FDICT-ND◆ —	3.13 —	22.00 —	100.00 —	BZT52C5V6-FDITR-ND◆ BZT52C5V6-13DITR-ND†	90.00/M 78.00/M
6.2	5	10	BZT52C6V2-FDICT-ND◆ —	3.13 —	22.00 —	100.00 —	BZT52C6V2-FDITR-ND◆ BZT52C6V2-13DITR-ND†	90.00/M 78.00/M

† Tape and Reel qty. 10,000 ◆ *RoHS Compliant*

(Continued)

DIODES Zener Diodes

SOD-123 Surface Mount Zener Diodes – 500mW *(Cont.)*

Digi-Reel®

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				10	100	1,000		
6.8	5	15	BZT52C6V8-FDICT-ND◆	3.13	22.00	100.00	BZT52C6V8-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C6V8-13DITR-ND†	78.00/M
7.5	5	15	BZT52C7V5-7DICT-ND	3.13	22.00	100.00	—	—
			BZT52C7V5-FDICT-ND◆	3.13	22.00	100.00	BZT52C7V5-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C7V5-13DITR-ND†	78.00/M
8.2	5	15	BZT52C8V2-FDICT-ND◆	3.13	22.00	100.00	BZT52C8V2-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C8V2-13DITR-ND†	78.00/M
9.1	5	15	BZT52C9V1-FDICT-ND◆	3.13	22.00	100.00	BZT52C9V1-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C9V1-13DITR-ND†	78.00/M
10	5	20	BZT52C10-FDICT-ND◆	3.13	22.00	100.00	BZT52C10-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C10-13DITR-ND†	78.00/M
11	5	20	BZT52C11-7DICT-ND	3.13	22.00	100.00	—	—
			BZT52C11-FDICT-ND◆	3.13	22.00	100.00	BZT52C11-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C11-13DITR-ND†	78.00/M
12	5	25	BZT52C12-FDICT-ND◆	3.13	22.00	100.00	BZT52C12-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C12-13DITR-ND†	78.00/M
13	5	30	BZT52C13-FDICT-ND◆	3.13	22.00	100.00	BZT52C13-FDITR-ND◆	90.00/M
15	5	30	BZT52C15-FDICT-ND◆	3.13	22.00	100.00	BZT52C15-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C15-13DITR-ND†	78.00/M
16	5	40	BZT52C16-FDICT-ND◆	3.13	22.00	100.00	BZT52C16-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C16-13DITR-ND†	78.00/M
18	5	45	BZT52C18-FDICT-ND◆	3.13	22.00	100.00	BZT52C18-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C18-13DITR-ND†	78.00/M
20	5	55	BZT52C20-FDICT-ND◆	3.13	22.00	100.00	BZT52C20-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C20-13DITR-ND†	78.00/M
22	5	55	BZT52C22-7DICT-ND	3.13	22.00	100.00	—	—
			BZT52C22-FDICT-ND◆	3.13	22.00	100.00	BZT52C22-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C22-13DITR-ND†	78.00/M
24	5	70	BZT52C24-FDICT-ND◆	3.13	22.00	100.00	BZT52C24-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C24-13DITR-ND†	78.00/M
27	2	80	BZT52C27-7DICT-ND	3.13	22.00	100.00	—	—
			BZT52C27-FDICT-ND◆	3.13	22.00	100.00	BZT52C27-FDITR-ND◆	90.00/M
			BZT52C27-13-FDICT-ND◆	3.13	22.00	100.00	BZT52C27-13-FDITR-ND◆†	78.00/M
30	2	80	BZT52C30-FDICT-ND◆	3.13	22.00	100.00	BZT52C30-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C30-13DITR-ND†	78.00/M
33	2	80	BZT52C33-FDICT-ND◆	3.13	22.00	100.00	BZT52C33-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C33-13DITR-ND†	78.00/M
36	2	90	BZT52C36-7DICT-ND	3.13	22.00	100.00	BZT52C36-7DITR-ND	90.00/M
			BZT52C36-FDICT-ND◆	3.13	22.00	100.00	BZT52C36-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C36-13DITR-ND†	78.00/M
39	2	130	BZT52C39-FDICT-ND◆	3.13	22.00	100.00	BZT52C39-FDITR-ND◆	90.00/M
			—	—	—	—	BZT52C39-13DITR-ND†	78.00/M
			BZT52C39-13-FDICT-ND◆	3.13	22.00	100.00	BZT52C39-13-FDITR-ND◆†	78.00/M
43	5	100	BZT52C43-7DICT-ND	3.13	22.00	100.00	BZT52C43-7DITR-ND	90.00/M
			BZT52C43-FDICT-ND◆	3.13	22.00	100.00	BZT52C43-FDITR-ND◆	90.00/M
47	5	100	BZT52C47-FDICT-ND◆	3.13	22.00	100.00	BZT52C47-FDITR-ND◆	90.00/M
51	5	100	BZT52C51-FDICT-ND◆	3.13	22.00	100.00	BZT52C51-FDITR-ND◆	90.00/M
MMSZ Series								
2.4	20	30	MMSZ5221B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5221B-FDITR-ND◆	90.00/M
2.7	20	30	MMSZ5223BDICT-ND	3.13	22.00	100.00	—	—
2.7	20	30	MMSZ5223B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5223B-FDITR-ND◆	90.00/M
3.0	20	30	MMSZ5225BDICT-ND	3.13	22.00	100.00	—	—
3.0	20	30	MMSZ5225B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5225B-FDITR-ND◆	90.00/M
3.3	20	28	MMSZ5226B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5226B-FDITR-ND◆	90.00/M
3.6	20	24	MMSZ5227BDICT-ND	3.13	22.00	100.00	—	—
3.6	20	24	MMSZ5227B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5227B-FDITR-ND◆	90.00/M
3.9	20	23	MMSZ5228B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5228B-FDITR-ND◆	90.00/M
4.3	20	22	MMSZ5229B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5229B-FDITR-ND◆	90.00/M
4.7	20	19	MMSZ5230B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5230B-FDITR-ND◆	90.00/M
5.1	20	17	MMSZ5231B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5231B-FDITR-ND◆	90.00/M
5.6	20	11	MMSZ5232B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5232B-FDITR-ND◆	90.00/M
6.0	20	7	MMSZ5233B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5233B-FDITR-ND◆	90.00/M
6.2	20	7	MMSZ5234B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5234B-FDITR-ND◆	90.00/M
6.8	20	5	MMSZ5235BDICT-ND	3.13	22.00	100.00	—	—
6.8	20	5	MMSZ5235B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5235B-FDITR-ND◆	90.00/M
7.5	20	6	MMSZ5236B-FDICT-ND◆	2.50	16.25	67.50	MMSZ5236B-FDITR-ND◆	59.00/M
8.2	20	8	MMSZ5237B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5237B-FDITR-ND◆	90.00/M
8.7	20	8	MMSZ5238B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5238B-FDITR-ND◆	90.00/M
9.1	20	10	MMSZ5239B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5239B-FDITR-ND◆	90.00/M
10	20	17	MMSZ5240B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5240B-FDITR-ND◆	90.00/M
11	20	22	MMSZ5241B-FDICT-ND◆	2.63	18.20	80.50	MMSZ5241B-FDITR-ND◆	70.00/M
12	20	30	MMSZ5242B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5242B-FDITR-ND◆	90.00/M
13	9.5	13	MMSZ5243B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5243B-FDITR-ND◆	90.00/M
15	8.5	16	MMSZ5245B-FDICT-ND◆	2.50	16.25	67.50	MMSZ5245B-FDITR-ND◆	59.00/M
16	7.8	17	MMSZ5246B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5246B-FDITR-ND◆	90.00/M
18	7.0	21	MMSZ5248B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5248B-FDITR-ND◆	90.00/M
20	6.2	25	MMSZ5250BDICT-ND	3.13	22.00	100.00	MMSZ5250BDITR-ND	90.00/M
20	6.2	25	MMSZ5250B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5250B-FDITR-ND◆	90.00/M
22	5.6	29	MMSZ5251BDICT-ND	3.13	22.00	100.00	MMSZ5251BDITR-ND	90.00/M
22	5.6	29	MMSZ5251B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5251B-FDITR-ND◆	90.00/M
24	5.2	33	MMSZ5252B-FDICT-ND◆	3.44	24.20	110.00	MMSZ5252B-FDITR-ND◆	99.00/M
27	5.0	41	MMSZ5254BDICT-ND	3.13	22.00	100.00	—	—
27	5.0	41	MMSZ5254B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5254B-FDITR-ND◆	90.00/M
28	4.5	44	MMSZ5255BDICT-ND	3.13	22.00	100.00	MMSZ5255BDITR-ND	90.00/M
28	4.5	44	MMSZ5255B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5255B-FDITR-ND◆	90.00/M
30	4.2	49	MMSZ5256BDICT-ND	3.13	22.00	100.00	MMSZ5256BDITR-ND	90.00/M
30	4.2	49	MMSZ5256B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5256B-FDITR-ND◆	90.00/M
33	3.8	58	MMSZ5257B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5257B-FDITR-ND◆	90.00/M
36	3.4	70	MMSZ5258B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5258B-FDITR-ND◆	90.00/M
39	3.2	80	MMSZ5259BDICT-ND	3.13	22.00	100.00	—	—
39	3.2	80	MMSZ5259B-FDICT-ND◆	3.13	22.00	100.00	MMSZ5259B-FDITR-ND◆	90.00/M
DDZ Series — RoHS Compliant								
5.1	.05	—	DDZ9689DICT-ND	2.81	19.80	90.00	DDZ9689DITR-ND	81.00/M
5.1	20	17	DDZ5V1BDICT-ND	2.81	19.80	90.00	DDZ5V1BDITR-ND	81.00/M
5.6	.05	—	DDZ9690DICT-ND	2.81	19.80	90.00	DDZ9690DITR-ND	81.00/M
5.6	20	11	DDZ5V6BDICT-ND	2.81	19.80	90.00	DDZ5V6BDITR-ND	81.00/M
6.2	.05	—	DDZ9691DICT-ND	2.81	19.80	90.00	DDZ9691DITR-ND	81.00/M
6.2	20	7	DDZ6V2BDICT-ND	2.81	19.80	90.00	DDZ6V2BDITR-ND	81.00/M
6.8	.05	—	DDZ9692DICT-ND	2.81	19.80	90.00	DDZ9692DITR-ND	81.00/M
7.5	.05	—	DDZ9693DICT-ND	2.81	19.80	90.00	DDZ9693DITR-ND	81.00/M
7.5	20	6	DDZ7V5CDICT-ND	2.81	19.80	90.00	DDZ7V5CDITR-ND	81.00/M
8.2	.05	—	DDZ9694DICT-ND	2.81	19.80	90.00	DDZ9694DITR-ND	81.00/M
8.2	20	8	DDZ8V2CDICT-ND	2.81	19.80	90.00	DDZ8V2CDITR-ND	81.00/M
9.1	.05	—	DDZ9696DICT-ND	2.81	19.80	90.00	DDZ9696DITR-ND	81.00/M
9.1	20	8	DDZ9V1CDICT-ND	2.81	19.80	90.00	DDZ9V1CDITR-ND	81.00/M
10	.05	—	DDZ9697DICT-ND	2.81	19.80	90.00	DDZ9697DITR-ND	81.00/M
12	.05	—	DDZ9699DICT-ND	2.81	19.80	90.00	DDZ9699DITR-ND	81.00/M
12	10	12	DDZ12CDICT-ND	2.81	19.80	90.00	DDZ12CDITR-ND	81.00/M
13	10	14	DDZ13BDICT-ND	2.81	19.80	90.00	DDZ13BDITR-ND	81.00/M
15	.05	—	DDZ9702DICT-ND	2.81	19.80	90.00	DDZ9702DITR-ND	81.00/M
17	.05	—	DDZ9704DICT-ND	2.81	19.80	90.00	DDZ9704DITR-ND	81.00/M
18	.05	—	DDZ9705DICT-ND	2.81	19.80	90.00	DDZ9705DITR-ND	81.00/M
18	10	23	DDZ18CDICT-ND	2.81	19.80	90.00	DDZ18CDITR-ND	81.00/M
20	.05	—	DDZ9707DICT-ND	2.81	19.80	90.00	DDZ9707DITR-ND	81.00/M
20	10	28	DDZ20CDICT-ND	2.81	19.80	90.00	DDZ20CDITR-ND	81.00/M
24	.05	—	DDZ9709DICT-ND	2.81	19.80	90.00	DDZ9709DITR-ND	81.00/M
24	5	35	DDZ24CDICT-ND	2.81	19.80	90.00	DDZ24CDITR-ND	81.00/M
27	.05	—	DDZ9711DICT-ND	2.81	19.80	90.00	DDZ9711DITR-ND	81.00/M

† Tape and Reel qty.10,000   ◆ ***RoHS Compliant***

SOD-323 Surface Mount Zener Diodes – 200mW

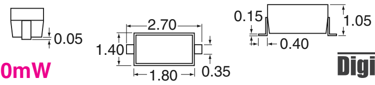

Digi-Reel®

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
BZT Series								
2.4	5	100	BZT52C2V4S-FDICT-ND◆	.47	3.44	24.20	BZT52C2V4S-FDITR-ND◆	99.00/M
2.7	5	100	BZT52C2V7S-FDICT-ND◆‡	.47	3.44	24.20	BZT52C2V7S-FDITR-ND◆‡	99.00/M
3.0	5	95	BZT52C3V0S-FDICT-ND◆	.47	3.44	24.20	BZT52C3V0S-FDITR-ND◆	99.00/M
3.3	5	95	BZT52C3V3S-FDICT-ND◆	.47	3.44	24.20	BZT52C3V3S-FDITR-ND◆	99.00/M
3.6	5	90	BZT52C3V6S-FDICT-ND◆	.47	3.44	24.20	BZT52C3V6S-FDITR-ND◆	99.00/M
3.9	5	90	BZT52C3V9S-FDICT-ND◆	.47	3.44	24.20	BZT52C3V9S-FDITR-ND◆	99.00/M
4.3	5	90	BZT52C4V3S-FDICT-ND◆	.44	3.00	20.80	BZT52C4V3S-FDITR-ND◆	80.00/M
4.7	5	80	BZT52C4V7S-FDICT-ND◆	.47	3.44	24.20	BZT52C4V7S-FDITR-ND◆	99.00/M
5.1	5	60	BZT52C5V1S-FDICT-ND◆	.47	3.44	24.20	BZT52C5V1S-FDITR-ND◆	99.00/M
5.6	5	40	BZT52C5V6S-FDICT-ND◆	.47	3.44	24.20	BZT52C5V6S-FDITR-ND◆	99.00/M
6.2	5	10	BZT52C6V2S-FDICT-ND◆	.47	3.44	24.20	BZT52C6V2S-FDITR-ND◆	99.00/M
6.8	5	15	BZT52C6V8S-FDICT-ND◆	.47	3.44	24.20	BZT52C6V8S-FDITR-ND◆	99.00/M
7.5	5	15	BZT52C7V5SDICT-ND	.47	3.44	24.20	BZT52C7V5SDITR-ND	99.00/M
7.5	5	15	BZT52C7V5S-FDICT-ND◆	.47	3.44	24.20	BZT52C7V5S-FDITR-ND◆	99.00/M
8.2	5	15	BZT52C8V2SDICT-ND	.47	3.44	24.20	—	—
8.2	5	15	BZT52C8V2S-FDICT-ND◆	.47	3.44	24.20	BZT52C8V2S-FDITR-ND◆	99.00/M
9.1	5	15	BZT52C9V1S-FDICT-ND◆	.47	3.44	24.20	BZT52C9V1S-FDITR-ND◆	99.00/M
10	5	20	BZT52C10S-FDICT-ND◆	.47	3.44	24.20	BZT52C10S-FDITR-ND◆	99.00/M
11	5	20	BZT52C11SDICT-ND	.47	3.44	24.20	—	—
11	5	20	BZT52C11S-FDICT-ND◆	.47	3.44	24.20	BZT52C11S-FDITR-ND◆	99.00/M
12	5	25	BZT52C12S-FDICT-ND◆	.47	3.44	24.20	BZT52C12S-FDITR-ND◆	99.00/M
13	5	30	BZT52C13SDICT-ND	.47	3.44	24.20	—	—
13	5	30	BZT52C13S-FDICT-ND◆	.47	3.44	24.20	BZT52C13S-FDITR-ND◆	99.00/M
15	5	30	BZT52C15S-FDICT-ND◆	.47	3.44	24.20	BZT52C15S-FDITR-ND◆	99.00/M
16	5	40	BZT52C16S-FDICT-ND◆	.47	3.44	24.20	BZT52C16S-FDITR-ND◆	99.00/M
18	5	45	BZT52C18S-FDICT-ND◆	.47	3.44	24.20	BZT52C18S-FDITR-ND◆	99.00/M
20	5	55	BZT52C20S-FDICT-ND◆	.47	3.44	24.20	BZT52C20S-FDITR-ND◆	99.00/M
22	5	55	BZT52C22S-FDICT-ND◆	.47	3.44	24.20	BZT52C22S-FDITR-ND◆	99.00/M
24	5	70	BZT52C24SDICT-ND	.47	3.44	24.20	—	—
24	5	70	BZT52C24S-FDICT-ND◆	.47	3.44	24.20	BZT52C24S-FDITR-ND◆	99.00/M
27	2	80	BZT52C27S-FDICT-ND◆	.47	3.44	24.20	BZT52C27S-FDITR-ND◆	99.00/M
30	2	80	BZT52C30SDICT-ND	.47	3.44	24.20	BZT52C30SDITR-ND	99.00/M
30	2	80	BZT52C30S-FDICT-ND◆	.47	3.44	24.20	BZT52C30S-FDITR-ND◆	99.00/M
33	2	80	BZT52C33S-FDICT-ND◆	.47	3.44	24.20	BZT52C33S-FDITR-ND◆	99.00/M
36	2	90	BZT52C36SDICT-ND	.47	3.44	24.20	—	—
36	2	90	BZT52C36S-FDICT-ND◆	.47	3.44	24.20	BZT52C36S-FDITR-ND◆	99.00/M
39	2	130	BZT52C39SDICT-ND	.47	3.44	24.20	—	—
39	2	130	BZT52C39S-FDICT-ND◆	.47	3.44	24.20	BZT52C39S-FDITR-ND◆	99.00/M
51	5	100	BZT52C51SDICT-ND◆	.39	3.00	21.60	BZT52C51SDITR-ND◆	86.00/M
MMSZ Series								
2.4	20	30	MMSZ5221BSDICT-ND	.47	3.44	24.20	—	—
2.4	20	30	MMSZ5221BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5221BS-FDITR-ND◆	99.00/M
2.7	20	30	MMSZ5223BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5223BS-FDITR-ND◆	99.00/M
3.0	20	30	MMSZ5225BSDICT-ND	.47	3.44	24.20	MMSZ5225BSDITR-ND	99.00/M
3.0	20	30	MMSZ5225BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5225BS-FDITR-ND◆	99.00/M
3.3	20	28	MMSZ5226BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5226BS-FDITR-ND◆	99.00/M
3.6	20	24	MMSZ5227BSDICT-ND	.47	3.44	24.20	—	—

◆ ***RoHS Compliant***   ‡ ***NEW!***   *(Continued)*

DIODES Zener Diodes

SOD-323 Surface Mount Zener Diodes – 200mW *(Cont.)*

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
3.6	20	24	MMSZ5227BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5227BS-FDITR-ND◆	99.00/M
3.9	20	23	MMSZ5228BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5228BS-FDITR-ND◆	99.00/M
4.3	20	22	MMSZ5229BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5229BS-FDITR-ND◆	99.00/M
4.7	20	19	MMSZ5230BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5230BS-FDITR-ND◆	99.00/M
5.1	20	17	MMSZ5231BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5231BS-FDITR-ND◆	99.00/M
5.6	20	11	MMSZ5232BSDICT-ND	.47	3.44	24.20	—	—
5.6	20	11	MMSZ5232BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5232BS-FDITR-ND◆	99.00/M
6.0	20	7	MMSZ5233BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5233BS-FDITR-ND◆	99.00/M
6.2	20	7	MMSZ5234BSDICT-ND	.47	3.44	24.20	MMSZ5234BSDITR-ND	99.00/M
6.2	20	7	MMSZ5234BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5234BS-FDITR-ND◆	99.00/M
6.8	20	5	MMSZ5235BSDICT-ND	.47	3.44	24.20	—	—
6.8	20	5	MMSZ5235BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5235BS-FDITR-ND◆	99.00/M
7.5	20	6	MMSZ5236BSDICT-ND	.47	3.44	24.20	MMSZ5236BSDITR-ND	99.00/M
7.5	20	6	MMSZ5236BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5236BS-FDITR-ND◆	99.00/M
8.2	20	8	MMSZ5237BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5237BS-FDITR-ND◆	99.00/M
8.7	20	8	MMSZ5238BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5238BS-FDITR-ND◆	99.00/M
9.1	20	10	MMSZ5239BSDICT-ND	.47	3.44	24.20	—	—
9.1	20	10	MMSZ5239BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5239BS-FDITR-ND◆	99.00/M
10	20	17	MMSZ5240BSDICT-ND	.47	3.44	24.20	—	—
10	20	17	MMSZ5240BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5240BS-FDITR-ND◆	99.00/M
11	20	22	MMSZ5241BSDICT-ND	.47	3.44	24.20	MMSZ5241BSDITR-ND	99.00/M
11	20	22	MMSZ5241BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5241BS-FDITR-ND◆	99.00/M
12	20	30	MMSZ5242BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5242BS-FDITR-ND◆	99.00/M
13	9.5	13	MMSZ5243BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5243BS-FDITR-ND◆	99.00/M
15	8.5	16	MMSZ5245BSDICT-ND	.47	3.44	24.20	—	—
15	8.5	16	MMSZ5245BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5245BS-FDITR-ND◆	99.00/M
16	7.8	17	MMSZ5246BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5246BS-FDITR-ND◆	99.00/M
18	7.0	21	MMSZ5248BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5248BS-FDITR-ND◆	99.00/M
20	6.2	25	MMSZ5250BSDICT-ND	.47	3.44	24.20	—	—
20	6.2	25	MMSZ5250BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5250BS-FDITR-ND◆	99.00/M
22	5.6	29	MMSZ5251BSDICT-ND	.47	3.44	24.20	MMSZ5251BSDITR-ND	99.00/M
22	5.6	29	MMSZ5251BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5251BS-FDITR-ND◆	99.00/M
24	5.2	33	MMSZ5252BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5252BS-FDITR-ND◆	99.00/M
27	5.0	41	MMSZ5254BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5254BS-FDITR-ND◆	99.00/M
28	4.5	44	MMSZ5255BSDICT-ND	.47	3.44	24.20	—	—
28	4.5	44	MMSZ5255BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5255BS-FDITR-ND◆	99.00/M
30	4.2	49	MMSZ5256BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5256BS-FDITR-ND◆	99.00/M
33	3.8	58	MMSZ5257BSDICT-ND	.47	3.44	24.20	—	—
33	3.8	58	MMSZ5257BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5257BS-FDITR-ND◆	99.00/M
36	3.4	70	MMSZ5258BSDICT-ND	.47	3.44	24.20	—	—
36	3.4	70	MMSZ5258BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5258BS-FDITR-ND◆	99.00/M
39	3.2	80	MMSZ5259BSDICT-ND	.47	3.44	24.20	—	—
39	3.2	80	MMSZ5259BS-FDICT-ND◆	.47	3.44	24.20	MMSZ5259BS-FDITR-ND◆	99.00/M
DDZ Series — RoHS Compliant								
5.6	20	11	DDZ5V6BSDICT-ND	.47	3.44	24.20	DDZ5V6BSDITR-ND	99.00/M
6.8	.05	—	DDZ9692SDICT-ND	.47	3.44	24.20	DDZ9692SDITR-ND	99.00/M
6.8	20	5	DDZ6V8CSDICT-ND	.47	3.44	24.20	DDZ6V8CSDITR-ND	99.00/M
7.5	.05	—	DDZ9693SDICT-ND	.47	3.44	24.20	DDZ9693SDITR-ND	99.00/M
7.5	20	6	DDZ7V5CSDICT-ND	.47	3.44	24.20	DDZ7V5CSDITR-ND	99.00/M
8.2	.05	—	DDZ9694SDICT-ND	.47	3.44	24.20	DDZ9694SDITR-ND	99.00/M
9.1	20	8	DDZ9V1CSDICT-ND	.47	3.44	24.20	DDZ9V1CSDITR-ND	99.00/M
10	.05	—	DDZ9697SDICT-ND	.47	3.44	24.20	DDZ9697SDITR-ND	99.00/M
12	.05	—	DDZ9699SDICT-ND	.47	3.44	24.20	DDZ9699SDITR-ND	99.00/M
13	10	14	DDZ13BSDICT-ND	.47	3.44	24.20	DDZ13BSDITR-ND	99.00/M
15	.05	—	DDZ9702SDICT-ND	.47	3.44	24.20	DDZ9702SDITR-ND	99.00/M
18	.05	—	DDZ9705SDICT-ND	.47	3.44	24.20	DDZ9705SDITR-ND	99.00/M
18	10	23	DDZ18CSDICT-ND	.47	3.44	24.20	DDZ18CSDITR-ND	99.00/M
20	.05	—	DDZ9707SDICT-ND	.47	3.44	24.20	DDZ9707SDITR-ND	99.00/M
20	10	28	DDZ20CSDICT-ND	.47	3.44	24.20	DDZ20CSDITR-ND	99.00/M
24	.05	—	DDZ9709SDICT-ND	.47	3.44	24.20	DDZ9709SDITR-ND	99.00/M
24	5	35	DDZ24CSDICT-ND	.47	3.44	24.20	DDZ24CSDITR-ND	99.00/M
27	.05	—	DDZ9711SDICT-ND	.47	3.44	24.20	DDZ9711SDITR-ND	99.00/M

◆ ***RoHS Compliant***

SOD-523 Surface Mount Zener Diodes – 150mW

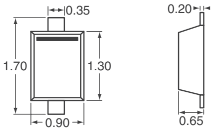

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5.6	5	40	BZT52C5V6TDICT-ND	.41	3.00	21.12	BZT52C5V6TDITR-ND	86.00/M
9.1	5	15	BZT52C9V1TDICT-ND	.41	3.00	21.12	BZT52C9V1TDITR-ND	86.00/M
13	5	30	BZT52C13TDICT-ND	.41	3.00	21.12	BZT52C13TDITR-ND	86.00/M
15	5	30	BZT52C15TDICT-ND	.41	3.00	21.12	BZT52C15TDITR-ND	86.00/M
16	5	40	BZT52C16TDICT-ND	.41	3.00	21.12	BZT52C16TDITR-ND	86.00/M
24	5	70	BZT52C24TDICT-ND	.41	3.00	21.12	BZT52C24TDITR-ND	86.00/M

DFN1006-2 Surface Mount Zener Diodes – 250mW

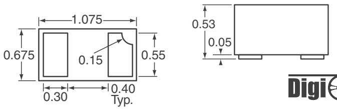

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
2.4	5	100	BZT52C2V4LPDICT-ND	.46	3.38	23.76	BZT52C2V4LPDITR-ND	97.00/M
2.7	5	100	BZT52C2V7LPDICT-ND	.46	3.38	23.76	BZT52C2V7LPDITR-ND	97.00/M
3.0	5	95	BZT52C3V0LPDICT-ND	.46	3.38	23.76	BZT52C3V0LPDITR-ND	97.00/M
3.3	5	95	BZT52C3V3LPDICT-ND	.46	3.38	23.76	BZT52C3V3LPDITR-ND	97.00/M
3.6	5	90	BZT52C3V6LPDICT-ND	.46	3.38	23.76	BZT52C3V6LPDITR-ND	97.00/M
3.9	5	90	BZT52C3V9LPDICT-ND	.46	3.38	23.76	BZT52C3V9LPDITR-ND	97.00/M
4.3	5	90	BZT52C4V3LPDICT-ND	.46	3.38	23.76	BZT52C4V3LPDITR-ND	97.00/M
4.7	5	80	BZT52C4V7LPDICT-ND	.46	3.38	23.76	BZT52C4V7LPDITR-ND	97.00/M
5.6	5	40	BZT52C5V6LPDICT-ND	.46	3.38	23.76	BZT52C5V6LPDITR-ND	97.00/M
6.2	5	10	BZT52C6V2LPDICT-ND	.46	3.38	23.76	BZT52C6V2LPDITR-ND	97.00/M
6.8	5	15	BZT52C6V8LPDICT-ND	.46	3.38	23.76	BZT52C6V8LPDITR-ND	97.00/M
7.5	5	15	BZT52C7V5LPDICT-ND	.46	3.38	23.76	BZT52C7V5LPDITR-ND	97.00/M
8.2	5	15	BZT52C8V2LPDICT-ND	.46	3.38	23.76	BZT52C8V2LPDITR-ND	97.00/M
9.1	5	15	BZT52C9V1LPDICT-ND	.46	3.38	23.76	BZT52C9V1LPDITR-ND	97.00/M
10	5	20	BZT52C10LPDICT-ND	.46	3.38	23.76	BZT52C10LPDITR-ND	97.00/M
11	5	20	BZT52C11LPDICT-ND	.46	3.38	23.76	BZT52C11LPDITR-ND	97.00/M
13	5	30	BZT52C13LPDICT-ND	.46	3.38	23.76	BZT52C13LPDITR-ND	97.00/M
36	5	90	BZT52C36LPDICT-ND	.46	3.38	23.76	BZT52C36LPDITR-ND	97.00/M
39	5	130	BZT52C39LPDICT-ND	.46	3.38	23.76	BZT52C39LPDITR-ND	97.00/M

MELF (DL-41) Surface Mount Zener Diodes – 1W

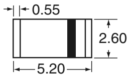

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	500
43	6.0	70	ZM4755ADICT-ND	4.00	28.80	84.00

MiniMELF (DL-35) Surface Mount Zener Diodes – 500mW

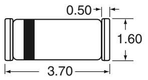

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 2,500
3.0	20	29	ZMM5225BDICT-ND	2.48	17.16	75.90	ZMM5225BDITR-ND	66.00/M
3.3	20	28	ZMM5226BDICT-ND	2.48	17.16	75.90	ZMM5226BDITR-ND	66.00/M
3.6	20	24	ZMM5227BDICT-ND	2.48	17.16	75.90	ZMM5227BDITR-ND	66.00/M
3.9	20	23	ZMM5228BDICT-ND	2.48	17.16	75.90	ZMM5228BDITR-ND	66.00/M
4.3	20	22	ZMM5229BDICT-ND	2.48	17.16	75.90	ZMM5229BDITR-ND	66.00/M
4.7	20	19	ZMM5230BDICT-ND	2.48	17.16	75.90	ZMM5230BDITR-ND	66.00/M
5.1	20	17	ZMM5231BDICT-ND	2.48	17.16	75.90	ZMM5231BDITR-ND	66.00/M
5.6	20	11	ZMM5232BDICT-ND	2.48	17.16	75.90	ZMM5232BDITR-ND	66.00/M
6.0	20	7	ZMM5233BDICT-ND	2.48	17.16	75.90	ZMM5233BDITR-ND	66.00/M
6.2	20	7	ZMM5234BDICT-ND	2.48	17.16	75.90	ZMM5234BDITR-ND	66.00/M
6.8	20	5	ZMM5235BDICT-ND	2.48	17.16	75.90	ZMM5235BDITR-ND	66.00/M
7.5	20	6	ZMM5236BDICT-ND	2.48	17.16	75.90	ZMM5236BDITR-ND	66.00/M
8.2	20	8	ZMM5237BDICT-ND	2.48	17.16	75.90	ZMM5237BDITR-ND	66.00/M
8.7	20	8	ZMM5238BDICT-ND	2.48	17.16	75.90	ZMM5238BDITR-ND	66.00/M
9.1	20	10	ZMM5239BDICT-ND	2.48	17.16	75.90	ZMM5239BDITR-ND	66.00/M
10	20	17	ZMM5240BDICT-ND	2.48	17.16	75.90	ZMM5240BDITR-ND	66.00/M
11	20	22	ZMM5241BDICT-ND	2.48	17.16	75.90	ZMM5241BDITR-ND	66.00/M
12	20	30	ZMM5242BDICT-ND	2.48	17.16	75.90	ZMM5242BDITR-ND	66.00/M
13	9.5	13	ZMM5243BDICT-ND	2.48	17.16	75.90	ZMM5243BDITR-ND	66.00/M
14	9.0	15	ZMM5244BDICT-ND	2.48	17.16	75.90	ZMM5244BDITR-ND	66.00/M
15	8.5	16	ZMM5245BDICT-ND	2.48	17.16	75.90	ZMM5245BDITR-ND	66.00/M
16	7.8	17	ZMM5246BDICT-ND	2.48	17.16	75.90	ZMM5246BDITR-ND	66.00/M
17	7.4	19	ZMM5247BDICT-ND	2.48	17.16	75.90	ZMM5247BDITR-ND	66.00/M
18	7.0	21	ZMM5248BDICT-ND	2.48	17.16	75.90	ZMM5248BDITR-ND	66.00/M
19	6.6	23	ZMM5249BDICT-ND	2.48	17.16	75.90	ZMM5249BDITR-ND	66.00/M
20	6.2	25	ZMM5250BDICT-ND	2.48	17.16	75.90	ZMM5250BDITR-ND	66.00/M
22	5.6	29	ZMM5251BDICT-ND	2.48	17.16	75.90	ZMM5251BDITR-ND	66.00/M
24	5.2	33	ZMM5252BDICT-ND	2.48	17.16	75.90	ZMM5252BDITR-ND	66.00/M
25	5.0	35	ZMM5253BDICT-ND	2.48	17.16	75.90	ZMM5253BDITR-ND	66.00/M
27	4.6	41	ZMM5254BDICT-ND	2.48	17.16	75.90	ZMM5254BDITR-ND	66.00/M
28	4.5	44	ZMM5255BDICT-ND	2.48	17.16	75.90	ZMM5255BDITR-ND	66.00/M
30	4.2	49	ZMM5256BDICT-ND	2.48	17.16	75.90	ZMM5256BDITR-ND	66.00/M
33	3.8	58	ZMM5257BDICT-ND	2.48	17.16	75.90	ZMM5257BDITR-ND	66.00/M
36	3.4	70	ZMM5258BDICT-ND	2.48	17.16	75.90	ZMM5258BDITR-ND	66.00/M
39	3.2	80	ZMM5259BDICT-ND	2.48	17.16	75.90	ZMM5259BDITR-ND	66.00/M
43	3.0	93	ZMM5260BDICT-ND	2.48	17.16	75.90	ZMM5260BDITR-ND	66.00/M
47	2.7	105	ZMM5261BDICT-ND	2.48	17.16	75.90	ZMM5261BDITR-ND	66.00/M
51	2.5	125	ZMM5262BDICT-ND	2.48	17.16	75.90	ZMM5262BDITR-ND	66.00/M
62	2.0	185	ZMM5265BDICT-ND	2.48	17.16	75.90	ZMM5265BDITR-ND	66.00/M
68	1.8	230	ZMM5266BDICT-ND	2.48	17.16	75.90	ZMM5266BDITR-ND	66.00/M

(Continued)

Zener Diodes *(Cont.)*

SOT-23 Surface Mount Zener Diodes – 300mW

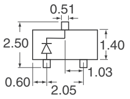

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5.6	20	11	DDZX5V6BDICT-ND	.44	3.00	20.80	DDZX5V6BDITR-ND	80.00/M
6.2	20	7	DDZX6V2BDICT-ND	.44	3.00	20.80	DDZX6V2BDITR-ND	80.00/M
6.8	20	5	DDZX6V8CDICT-ND	.44	3.00	20.80	DDZX6V8CDITR-ND	80.00/M
7.5	20	6	DDZX7V5CDICT-ND	.44	3.00	20.80	DDZX7V5CDITR-ND	80.00/M
9.1	20	8	DDZX9V1CDICT-ND	.44	3.00	20.80	DDZX9V1CDITR-ND	80.00/M
12	10	12	DDZX12CDICT-ND	.44	3.00	20.80	DDZX12CDITR-ND	80.00/M
13	10	14	DDZX13BDICT-ND	.44	3.00	20.80	DDZX13BDITR-ND	80.00/M
18	10	23	DDZX18CDICT-ND	.44	3.00	20.80	DDZX18CDITR-ND	80.00/M
20	10	28	DDZX20CDICT-ND	.44	3.00	20.80	DDZX20CDITR-ND	80.00/M
24	5	35	DDZX24CDICT-ND	.44	3.00	20.80	DDZX24CDITR-ND	80.00/M

SOT-23 Dual Surface Mount Zener Diodes – 300mW

Common Anode

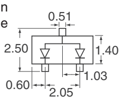

Common Cathode

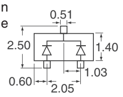

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
			Common Anode					
2.7	5.0	83	AZ23C2V7-FDICT-ND◆	.50	4.00	30.00	AZ23C2V7-FDITR-ND◆	150.00/M
3.0	5.0	95	AZ23C3V0DICT-ND	.50	4.00	30.00	AZ23C3V0DITR-ND	150.00/M
3.0	5.0	95	AZ23C3V0-FDICT-ND◆	.50	4.00	30.00	AZ23C3V0-FDITR-ND◆	150.00/M
3.3	5.0	95	AZ23C3V3-FDICT-ND◆	.50	4.00	30.00	AZ23C3V3-FDITR-ND◆	150.00/M
3.6	5.0	95	AZ23C3V6-FDICT-ND◆	.50	4.00	30.00	AZ23C3V6-FDITR-ND◆	150.00/M
3.9	5.0	95	AZ23C3V9DICT-ND	.50	4.00	30.00	—	—
3.9	5.0	95	AZ23C3V9-FDICT-ND◆	.50	4.00	30.00	AZ23C3V9-FDITR-ND◆	150.00/M
4.3	5.0	95	AZ23C4V3-FDICT-ND◆	.50	4.00	30.00	AZ23C4V3-FDITR-ND◆	150.00/M
4.7	5.0	78	AZ23C4V7-FDICT-ND◆	.50	4.00	30.00	AZ23C4V7-FDITR-ND◆	150.00/M
5.1	5.0	60	AZ23C5V1-FDICT-ND◆	.50	4.00	30.00	AZ23C5V1-FDITR-ND◆	150.00/M
5.6	5.0	40	AZ23C5V6-FDICT-ND◆	.50	4.00	30.00	AZ23C5V6-FDITR-ND◆	150.00/M
6.2	5.0	10	AZ23C6V2-FDICT-ND◆	.50	4.00	30.00	AZ23C6V2-FDITR-ND◆	150.00/M
6.8	5.0	8.0	AZ23C6V8-FDICT-ND◆	.50	4.00	30.00	AZ23C6V8-FDITR-ND◆	150.00/M
7.5	5.0	7.0	AZ23C7V5-FDICT-ND◆	.50	4.00	30.00	AZ23C7V5-FDITR-ND◆	150.00/M
8.2	5.0	7.0	AZ23C8V2-FDICT-ND◆	.50	4.00	30.00	AZ23C8V2-FDITR-ND◆	150.00/M
9.1	5.0	10	AZ23C9V1-FDICT-ND◆	.50	4.00	30.00	AZ23C9V1-FDITR-ND◆	150.00/M
10	5.0	15	AZ23C10-FDICT-ND◆	.50	4.00	30.00	AZ23C10-FDITR-ND◆	150.00/M
11	5.0	20	AZ23C11DICT-ND	.50	4.00	30.00	—	—
11	5.0	20	AZ23C11-FDICT-ND◆	.50	4.00	30.00	AZ23C11-FDITR-ND◆	150.00/M
12	5.0	20	AZ23C12DICT-ND	.50	4.00	30.00	—	—
12	5.0	20	AZ23C12-FDICT-ND◆	.50	4.00	30.00	AZ23C12-FDITR-ND◆	150.00/M
13	5.0	25	AZ23C13-FDICT-ND◆	.50	4.00	30.00	AZ23C13-FDITR-ND◆	150.00/M
15	5.0	30	AZ23C15-FDICT-ND◆	.50	4.00	30.00	AZ23C15-FDITR-ND◆	150.00/M
16	5.0	40	AZ23C16-FDICT-ND◆	.50	4.00	30.00	AZ23C16-FDITR-ND◆	150.00/M
18	5.0	50	AZ23C18DICT-ND	.50	4.00	30.00	—	—
18	5.0	50	AZ23C18-FDICT-ND◆	.50	4.00	30.00	AZ23C18-FDITR-ND◆	150.00/M
20	5.0	50	AZ23C20-FDICT-ND◆	.50	4.00	30.00	AZ23C20-FDITR-ND◆	150.00/M
22	5.0	55	AZ23C22-FDICT-ND◆	.50	4.00	30.00	AZ23C22-FDITR-ND◆	150.00/M
24	5.0	80	AZ23C24-FDICT-ND◆	.50	4.00	30.00	AZ23C24-FDITR-ND◆	150.00/M
27	5.0	80	AZ23C27-FDICT-ND◆	.50	4.00	30.00	AZ23C27-FDITR-ND◆	150.00/M
30	5.0	80	AZ23C30-FDICT-ND◆	.50	4.00	30.00	AZ23C30-FDITR-ND◆	150.00/M
33	5.0	80	AZ23C33-FDICT-ND◆	.50	4.00	30.00	AZ23C33-FDITR-ND◆	150.00/M
36	5.0	90	AZ23C36-FDICT-ND◆	.50	4.00	30.00	AZ23C36-FDITR-ND◆	150.00/M
39	5.0	90	AZ23C39-FDICT-ND◆	.50	4.00	30.00	AZ23C39-FDITR-ND◆	150.00/M
43	5.0	100	AZ23C43-FDICT-ND◆	.50	4.00	30.00	AZ23C43-FDITR-ND◆	150.00/M
47	5.0	100	AZ23C47-FDICT-ND◆	.50	4.00	30.00	AZ23C47-FDITR-ND◆	150.00/M
51	5.0	100	AZ23C51DICT-ND	.50	4.00	30.00	—	—
51	5.0	100	AZ23C51-FDICT-ND◆	.50	4.00	30.00	AZ23C51-FDITR-ND◆	150.00/M
			Common Cathode					
2.7	5.0	83	DZ23C2V7-FDICT-ND◆	.45	3.60	27.00	DZ23C2V7-FDITR-ND◆	135.00/M
3.0	5.0	95	DZ23C3V0DICT-ND	.45	3.60	27.00	—	—
3.0	5.0	95	DZ23C3V0-FDICT-ND◆	.45	3.60	27.00	DZ23C3V0-FDITR-ND◆	135.00/M
3.3	5.0	95	DZ23C3V3-FDICT-ND◆	.45	3.60	27.00	DZ23C3V3-FDITR-ND◆	135.00/M
3.6	5.0	95	DZ23C3V6DICT-ND	.45	3.60	27.00	—	—
3.6	5.0	95	DZ23C3V6-FDICT-ND◆	.45	3.60	27.00	DZ23C3V6-FDITR-ND◆	135.00/M
3.9	5.0	95	DZ23C3V9DICT-ND	.45	3.60	27.00	DZ23C3V9DITR-ND	135.00/M
3.9	5.0	95	DZ23C3V9-FDICT-ND◆	.45	3.60	27.00	DZ23C3V9-FDITR-ND◆	135.00/M
4.3	5.0	95	DZ23C4V3DICT-ND	.45	3.60	27.00	—	—
4.3	5.0	95	DZ23C4V3-FDICT-ND◆	.45	3.60	27.00	DZ23C4V3-FDITR-ND◆	135.00/M
4.7	5.0	78	DZ23C4V7-FDICT-ND◆	.45	3.60	27.00	DZ23C4V7-FDITR-ND◆	135.00/M
5.1	5.0	60	DZ23C5V1DICT-ND	.45	3.60	27.00	DZ23C5V1DITR-ND	135.00/M
5.1	5.0	60	DZ23C5V1-FDICT-ND◆	.45	3.60	27.00	DZ23C5V1-FDITR-ND◆	135.00/M
5.6	5.0	40	DZ23C5V6DICT-ND	.45	3.60	27.00	DZ23C5V6DITR-ND	135.00/M
5.6	5.0	40	DZ23C5V6-FDICT-ND◆	.45	3.60	27.00	DZ23C5V6-FDITR-ND◆	135.00/M
6.2	5.0	10	DZ23C6V2DICT-ND	.45	3.60	27.00	DZ23C6V2DITR-ND	135.00/M
6.2	5.0	10	DZ23C6V2-FDICT-ND◆	.45	3.60	27.00	DZ23C6V2-FDITR-ND◆	135.00/M
6.8	5.0	8.0	DZ23C6V8DICT-ND	.45	3.60	27.00	DZ23C6V8DITR-ND	135.00/M
6.8	5.0	8.0	DZ23C6V8-FDICT-ND◆	.45	3.60	27.00	DZ23C6V8-FDITR-ND◆	135.00/M
7.5	5.0	7.0	DZ23C7V5-FDICT-ND◆	.45	3.60	27.00	DZ23C7V5-FDITR-ND◆	135.00/M
8.2	5.0	7.0	DZ23C8V2DICT-ND	.45	3.60	27.00	DZ23C8V2DITR-ND	135.00/M
8.2	5.0	7.0	DZ23C8V2-FDICT-ND◆	.45	3.60	27.00	DZ23C8V2-FDITR-ND◆	135.00/M
9.1	5.0	10	DZ23C9V1-FDICT-ND◆	.45	3.60	27.00	DZ23C9V1-FDITR-ND◆	135.00/M
10	5.0	15	DZ23C10-FDICT-ND◆	.45	3.60	27.00	DZ23C10-FDITR-ND◆	135.00/M
11	5.0	20	DZ23C11DICT-ND	.45	3.60	27.00	DZ23C11DITR-ND	135.00/M
11	5.0	20	DZ23C11-FDICT-ND◆	.45	3.60	27.00	DZ23C11-FDITR-ND◆	135.00/M
12	5.0	20	DZ23C12-FDICT-ND◆	.45	3.60	27.00	DZ23C12-FDITR-ND◆	135.00/M
13	5.0	25	DZ23C13-FDICT-ND◆	.45	3.60	27.00	DZ23C13-FDITR-ND◆	135.00/M
15	5.0	30	DZ23C15-FDICT-ND◆	.45	3.60	27.00	DZ23C15-FDITR-ND◆	135.00/M
16	5.0	40	DZ23C16-FDICT-ND◆	.45	3.60	27.00	DZ23C16-FDITR-ND◆	135.00/M
18	5.0	50	DZ23C18-FDICT-ND◆	.45	3.60	27.00	DZ23C18-FDITR-ND◆	135.00/M
20	5.0	50	DZ23C20-FDICT-ND◆	.45	3.60	27.00	DZ23C20-FDITR-ND◆	135.00/M
22	5.0	55	DZ23C22DICT-ND	.45	3.60	27.00	DZ23C22DITR-ND	135.00/M
22	5.0	55	DZ23C22-FDICT-ND◆	.45	3.60	27.00	DZ23C22-FDITR-ND◆	135.00/M
24	5.0	80	DZ23C24-FDICT-ND◆	.45	3.60	27.00	DZ23C24-FDITR-ND◆	135.00/M
27	5.0	80	DZ23C27DICT-ND	.45	3.60	27.00	—	—
27	5.0	80	DZ23C27-FDICT-ND◆	.45	3.60	27.00	DZ23C27-FDITR-ND◆	135.00/M
30	5.0	80	DZ23C30-FDICT-ND◆	.45	3.60	27.00	DZ23C30-FDITR-ND◆	135.00/M
33	5.0	80	DZ23C33-FDICT-ND◆	.45	3.60	27.00	DZ23C33-FDITR-ND◆	135.00/M
36	5.0	90	DZ23C36DICT-ND	.45	3.60	27.00	DZ23C36DITR-ND	135.00/M
36	5.0	90	DZ23C36-FDICT-ND◆	.45	3.60	27.00	DZ23C36-FDITR-ND◆	135.00/M
39	5.0	90	DZ23C39-FDICT-ND◆	.45	3.60	27.00	DZ23C39-FDITR-ND◆	135.00/M
43	5.0	100	DZ23C43DICT-ND	.45	3.60	27.00	DZ23C43DITR-ND	135.00/M
43	5.0	100	DZ23C43-FDICT-ND◆	.45	3.60	27.00	DZ23C43-FDITR-ND◆	135.00/M
47	5.0	100	DZ23C47-FDICT-ND◆	.45	3.60	27.00	DZ23C47-FDITR-ND◆	135.00/M
51	5.0	100	DZ23C51-FDICT-ND◆	.45	3.60	27.00	DZ23C51-FDITR-ND◆	135.00/M

◆ *RoHS Compliant*

SOT-23 Surface Mount Zener Diodes – 350mW

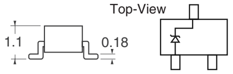

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
			BZX Series					
2.4	5.0	100	BZX84C2V4-FDICT-ND◆	.44	3.00	20.80	BZX84C2V4-FDITR-ND◆	80.00/M
2.7	5.0	100	BZX84C2V7-FDICT-ND◆	.44	3.00	20.80	BZX84C2V7-FDITR-ND◆	80.00/M
3.0	5.0	95	BZX84C3V0-FDICT-ND◆	.44	3.00	20.80	BZX84C3V0-FDITR-ND◆	80.00/M
3.3	5.0	95	BZX84C3V3-FDICT-ND•◆	.44	3.00	20.80	BZX84C3V3-FDITR-ND◆	80.00/M
3.6	5.0	90	BZX84C3V6DICT-ND	.44	3.00	20.80	—	—
3.6	5.0	90	BZX84C3V6-FDICT-ND◆	.44	3.00	20.80	BZX84C3V6-FDITR-ND◆	80.00/M
3.9	5.0	90	BZX84C3V9-FDICT-ND•◆	.44	3.00	20.80	BZX84C3V9-FDITR-ND◆	80.00/M
4.3	5.0	90	BZX84C4V3DICT-ND	.44	3.00	20.80	—	—
4.3	5.0	90	BZX84C4V3-FDICT-ND◆	.44	3.00	20.80	BZX84C4V3-FDITR-ND◆	80.00/M
4.7	5.0	80	BZX84C4V7-FDICT-ND◆	.44	3.00	20.80	BZX84C4V7-FDITR-ND◆	80.00/M
5.1	5.0	60	BZX84C5V1-FDICT-ND•◆	.44	3.00	20.80	BZX84C5V1-FDITR-ND◆	80.00/M
5.6	5.0	40	BZX84C5V6-FDICT-ND•◆	.44	3.00	20.80	BZX84C5V6-FDITR-ND◆	80.00/M
6.2	5.0	10	BZX84C6V2-FDICT-ND•◆	.44	3.00	20.80	BZX84C6V2-FDITR-ND◆	80.00/M
6.8	5.0	15	BZX84C6V8-FDICT-ND•◆	.44	3.00	20.80	BZX84C6V8-FDITR-ND◆	80.00/M
7.5	5.0	15	BZX84C7V5-FDICT-ND◆	.44	3.00	20.80	BZX84C7V5-FDITR-ND◆	80.00/M
8.2	5.0	15	BZX84C8V2-FDICT-ND◆	.44	3.00	20.80	BZX84C8V2-FDITR-ND◆	80.00/M
9.1	5.0	15	BZX84C9V1-FDICT-ND•◆	.44	3.00	20.80	BZX84C9V1-FDITR-ND◆	80.00/M
10	5.0	20	BZX84C10-FDICT-ND•◆	.44	3.00	20.80	BZX84C10-FDITR-ND◆	80.00/M
11	5.0	20	BZX84C11-FDICT-ND◆	.44	3.00	20.80	BZX84C11-FDITR-ND◆	80.00/M
12	5.0	25	BZX84C12-FDICT-ND•◆	.44	3.00	20.80	BZX84C12-FDITR-ND◆	80.00/M
13	5.0	30	BZX84C13-FDICT-ND◆	.44	3.00	20.80	BZX84C13-FDITR-ND◆	80.00/M
15	5.0	30	BZX84C15-FDICT-ND•◆	.39	2.63	18.20	BZX84C15-FDITR-ND◆	70.00/M
16	5.0	40	BZX84C16-FDICT-ND◆	.44	3.00	20.80	BZX84C16-FDITR-ND◆	80.00/M
18	5.0	45	BZX84C18-FDICT-ND•◆	.44	3.00	20.80	BZX84C18-FDITR-ND◆	80.00/M
20	5.0	55	BZX84C20-FDICT-ND•◆	.44	3.00	20.80	BZX84C20-FDITR-ND◆	80.00/M
22	5.0	55	BZX84C22DICT-ND	.44	3.00	20.80	—	—
22	5.0	55	BZX84C22-FDICT-ND◆	.44	3.00	20.80	BZX84C22-FDITR-ND◆	80.00/M
24	5.0	70	BZX84C24-FDICT-ND•◆	.44	3.00	20.80	BZX84C24-FDITR-ND◆	80.00/M
27	2.0	80	BZX84C27DICT-ND	.44	3.00	20.80	—	—
27	2.0	80	BZX84C27-FDICT-ND◆	.44	3.00	20.80	BZX84C27-FDITR-ND◆	80.00/M
30	2.0	80	BZX84C30-FDICT-ND•◆	.44	3.00	20.80	BZX84C30-FDITR-ND◆	80.00/M
33	2.0	80	BZX84C33DICT-ND	.44	3.00	20.80	—	—
33	2.0	80	BZX84C33-FDICT-ND•◆	.44	3.00	20.80	BZX84C33-FDITR-ND◆	80.00/M

◆ *RoHS Compliant*

(Continued)

Zener Diodes

SOT-23 Surface Mount Zener Diodes – 350mW *(Cont.)*

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT} I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
36	2.0	90	BZX84C36-FDICT-ND•◆	.44	3.00	20.80	BZX84C36-FDITR-ND◆	80.00/M
39	2.0	130	BZX84C39-FDICT-ND•◆	.44	3.00	20.80	BZX84C39-FDITR-ND◆	80.00/M
43	2.0	150	BZX84C43DICT-ND	.44	3.00	20.80	BZX84C43DITR-ND	80.00/M
43	2.0	150	BZX84C43-FDICT-ND◆	.44	3.00	20.80	BZX84C43-FDITR-ND◆	80.00/M
47	2.0	170	BZX84C47DICT-ND	.44	3.00	20.80	—	—
47	2.0	170	BZX84C47-FDICT-ND•◆	.44	3.00	20.80	BZX84C47-FDITR-ND◆	80.00/M
51	2.0	180	BZX84C51-FDICT-ND◆	.44	3.00	20.80	BZX84C51-FDITR-ND◆	80.00/M
MMBZ Series								
2.4	20	30	MMBZ5221BDICT-ND	.44	3.00	20.80	—	—
2.4	20	30	MMBZ5221B-FDICT-ND◆	.44	3.00	20.80	MMBZ5221B-FDITR-ND◆	80.00/M
2.7	20	30	MMBZ5223B-FDICT-ND◆	.44	3.00	20.80	MMBZ5223B-FDITR-ND◆	80.00/M
3.0	20	30	MMBZ5225B-FDICT-ND◆	.44	3.00	20.80	MMBZ5225B-FDITR-ND◆	80.00/M
3.3	20	28	MMBZ5226B-FDICT-ND◆	.44	3.00	20.80	MMBZ5226B-FDITR-ND◆	80.00/M
3.6	20	24	MMBZ5227BDICT-ND	.44	3.00	20.80	—	—
3.6	20	24	MMBZ5227B-FDICT-ND◆	.44	3.00	20.80	MMBZ5227B-FDITR-ND◆	80.00/M
3.9	20	23	MMBZ5228BDICT-ND	.44	3.00	20.80	—	—
3.9	20	23	MMBZ5228B-FDICT-ND◆	.38	2.81	19.80	MMBZ5228B-FDITR-ND◆	81.00/M
4.3	20	22	MMBZ5229BDICT-ND	.44	3.00	20.80	MMBZ5229BDITR-ND	80.00/M
4.3	20	22	MMBZ5229B-FDICT-ND◆	.44	3.00	20.80	MMBZ5229B-FDITR-ND◆	80.00/M
4.7	20	19	MMBZ5230B-FDICT-ND◆	.44	3.00	20.80	MMBZ5230B-FDITR-ND◆	80.00/M
5.1	20	17	MMBZ5231B-FDICT-ND◆	.44	3.00	20.80	MMBZ5231B-FDITR-ND◆	80.00/M
5.6	20	11	MMBZ5232B-FDICT-ND◆	.44	3.00	20.80	MMBZ5232B-FDITR-ND◆	80.00/M
6.0	20	7	MMBZ5233B-FDICT-ND◆	.44	3.00	20.80	MMBZ5233B-FDITR-ND◆	80.00/M
6.2	20	7	MMBZ5234BDICT-ND	.44	3.00	20.80	—	—
6.2	20	7	MMBZ5234B-FDICT-ND◆	.44	3.00	20.80	MMBZ5234B-FDITR-ND◆	80.00/M
6.8	20	5	MMBZ5235BDICT-ND	.44	3.00	20.80	—	—
6.8	20	5	MMBZ5235B-FDICT-ND◆	.44	3.00	20.80	MMBZ5235B-FDITR-ND◆	80.00/M
7.5	20	6	MMBZ5236BDICT-ND	.44	3.00	20.80	—	—
7.5	20	6	MMBZ5236B-FDICT-ND◆	.44	3.00	20.80	MMBZ5236B-FDITR-ND◆	80.00/M
8.2	20	8	MMBZ5237BDICT-ND	.44	3.00	20.80	—	—
8.2	20	8	MMBZ5237B-FDICT-ND◆	.44	3.00	20.80	MMBZ5237B-FDITR-ND◆	80.00/M
8.7	20	8	MMBZ5238B-FDICT-ND◆	.44	3.00	20.80	MMBZ5238B-FDITR-ND◆	80.00/M
9.1	20	10	MMBZ5239BDICT-ND	.44	3.00	20.80	—	—
9.1	20	10	MMBZ5239B-FDICT-ND◆	.44	3.00	20.80	MMBZ5239B-FDITR-ND◆	80.00/M
10	20	17	MMBZ5240BDICT-ND	.44	3.00	20.80	MMBZ5240BDITR-ND	80.00/M
10	20	17	MMBZ5240B-FDICT-ND◆	.44	3.00	20.80	MMBZ5240B-FDITR-ND◆	80.00/M
11	20	22	MMBZ5241B-FDICT-ND◆	.44	3.00	20.80	MMBZ5241B-FDITR-ND◆	80.00/M
12	20	30	MMBZ5242B-FDICT-ND◆	.44	3.00	20.80	MMBZ5242B-FDITR-ND◆	80.00/M
13	9.5	13	MMBZ5243BDICT-ND	.44	3.00	20.80	—	—
13	9.5	13	MMBZ5243B-FDICT-ND◆	.44	3.00	20.80	MMBZ5243B-FDITR-ND◆	80.00/M
15	8.5	16	MMBZ5245B-FDICT-ND◆	.46	2.70	17.55	MMBZ5245B-FDITR-ND◆	63.00/M
16	7.8	17	MMBZ5246BDICT-ND	.44	3.00	20.80	MMBZ5246BDITR-ND	80.00/M
16	7.8	17	MMBZ5246B-FDICT-ND◆	.44	3.00	20.80	MMBZ5246B-FDITR-ND◆	80.00/M
18	7.0	21	MMBZ5248B-FDICT-ND◆	.44	3.00	20.80	MMBZ5248B-FDITR-ND◆	80.00/M
20	6.2	25	MMBZ5250B-FDICT-ND◆	.44	3.00	20.80	MMBZ5250B-FDITR-ND◆	80.00/M
22	5.6	29	MMBZ5251B-FDICT-ND◆	.44	3.00	20.80	MMBZ5251B-FDITR-ND◆	80.00/M
24	5.2	33	MMBZ5252BDICT-ND	.44	3.00	20.80	MMBZ5252BDITR-ND	80.00/M
24	5.2	33	MMBZ5252B-FDICT-ND◆	.44	3.00	20.80	MMBZ5252B-FDITR-ND◆	80.00/M
27	5.0	41	MMBZ5254BDICT-ND	.44	3.00	20.80	MMBZ5254BDITR-ND	80.00/M
27	5.0	41	MMBZ5254B-FDICT-ND◆	.44	3.00	20.80	MMBZ5254B-FDITR-ND◆	80.00/M
28	4.5	44	MMBZ5255BDICT-ND	.44	3.00	20.80	—	—
28	4.5	44	MMBZ5255B-FDICT-ND◆	.44	3.00	20.80	MMBZ5255B-FDITR-ND◆	80.00/M
30	4.2	49	MMBZ5256BDICT-ND	.44	3.00	20.80	MMBZ5256BDITR-ND	80.00/M
30	4.2	49	MMBZ5256B-FDICT-ND◆	.44	3.00	20.80	MMBZ5256B-FDITR-ND◆	80.00/M
33	3.8	58	MMBZ5257B-FDICT-ND◆	.44	3.00	20.80	MMBZ5257B-FDITR-ND◆	80.00/M
36	3.4	70	MMBZ5258BDICT-ND	.44	3.00	20.80	MMBZ5258BDITR-ND	80.00/M
36	3.4	70	MMBZ5258B-FDICT-ND◆	.44	3.00	20.80	MMBZ5258B-FDITR-ND◆	80.00/M
39	3.2	80	MMBZ5259B-FDICT-ND◆	.44	3.00	20.80	MMBZ5259B-FDITR-ND◆	80.00/M

• **BZX2-KIT-ND** ***Digi-Key® SMD Zener Diodes Kit*** 10 each of values denoted (180 total pieces) **$23.79**

◆ ***RoHS Compliant***

SOT-323 Surface Mount Zener Diode – 200mW

Zener Voltage V_Z@I_{ZT} Nominal (V)	Test Current I_{ZT} (mA)	Max. Dynamic Imped. Z_{ZT}@I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
BZX Series								
2.4	5.0	100	BZX84C2V4WDICT-ND	2.81	19.80	90.00	BZX84C2V4WDITR-ND	81.00/M
2.4	5.0	100	BZX84C2V4W-FDICT-ND◆	2.81	19.80	90.00	BZX84C2V4W-FDITR-ND◆	81.00/M
2.7	5.0	100	BZX84C2V7WDICT-ND	2.81	19.80	90.00	BZX84C2V7WDITR-ND	81.00/M
2.7	5.0	100	BZX84C2V7W-FDICT-ND◆	2.81	19.80	90.00	BZX84C2V7W-FDITR-ND◆	81.00/M
3.0	5.0	95	BZX84C3V0WDICT-ND	2.81	19.80	90.00	—	—
3.0	5.0	95	BZX84C3V0W-FDICT-ND◆	2.81	19.80	90.00	BZX84C3V0W-FDITR-ND◆	81.00/M
3.3	5.0	95	BZX84C3V3W-FDICT-ND◆	2.81	19.80	90.00	BZX84C3V3W-FDITR-ND◆	81.00/M
3.6	5.0	90	BZX84C3V6WDICT-ND	2.81	19.80	90.00	—	—
3.6	5.0	90	BZX84C3V6W-FDICT-ND◆	2.81	19.80	90.00	BZX84C3V6W-FDITR-ND◆	81.00/M
3.9	5.0	90	BZX84C3V9W-FDICT-ND◆	2.81	19.80	90.00	BZX84C3V9W-FDITR-ND◆	81.00/M
4.3	5.0	90	BZX84C4V3W-FDICT-ND◆	2.81	19.80	90.00	BZX84C4V3W-FDITR-ND◆	81.00/M
4.7	5.0	80	BZX84C4V7WDICT-ND	2.81	19.80	90.00	BZX84C4V7WDITR-ND	81.00/M
4.7	5.0	80	BZX84C4V7W-FDICT-ND◆	2.81	19.80	90.00	BZX84C4V7W-FDITR-ND◆	81.00/M
5.1	5.0	60	BZX84C5V1W-FDICT-ND◆	2.81	19.80	90.00	BZX84C5V1W-FDITR-ND◆	81.00/M
5.6	5.0	40	BZX84C5V6W-FDICT-ND◆	2.81	19.80	90.00	BZX84C5V6W-FDITR-ND◆	81.00/M
6.2	5.0	10	BZX84C6V2WDICT-ND	2.81	19.80	90.00	BZX84C6V2WDITR-ND	81.00/M
6.2	5.0	10	BZX84C6V2W-FDICT-ND◆	2.81	19.80	90.00	BZX84C6V2W-FDITR-ND◆	81.00/M
6.8	5.0	15	BZX84C6V8WDICT-ND	2.81	19.80	90.00	—	—
6.8	5.0	15	BZX84C6V8W-FDICT-ND◆	2.81	19.80	90.00	BZX84C6V8W-FDITR-ND◆	81.00/M
7.5	5.0	15	BZX84C7V5W-FDICT-ND◆	2.81	19.80	90.00	BZX84C7V5W-FDITR-ND◆	81.00/M
8.2	5.0	15	BZX84C8V2WDICT-ND	2.81	19.80	90.00	BZX84C8V2WDITR-ND	81.00/M
8.2	5.0	15	BZX84C8V2W-FDICT-ND◆	2.81	19.80	90.00	BZX84C8V2W-FDITR-ND◆	81.00/M
9.1	5.0	15	BZX84C9V1W-FDICT-ND◆	2.81	19.80	90.00	BZX84C9V1W-FDITR-ND◆	81.00/M
10	5.0	20	BZX84C10WDICT-ND	2.81	19.80	90.00	BZX84C10WDITR-ND	81.00/M
10	5.0	20	BZX84C10W-FDICT-ND◆	2.81	19.80	90.00	BZX84C10W-FDITR-ND◆	81.00/M
11	5.0	20	BZX84C11W-FDICT-ND◆	2.81	19.80	90.00	BZX84C11W-FDITR-ND◆	81.00/M
12	5.0	25	BZX84C12WDICT-ND	2.81	19.80	90.00	—	—
12	5.0	25	BZX84C12W-FDICT-ND◆	2.81	19.80	90.00	BZX84C12W-FDITR-ND◆	81.00/M
13	5.0	30	BZX84C13W-FDICT-ND◆	2.81	19.80	90.00	BZX84C13W-FDITR-ND◆	81.00/M
15	5.0	30	BZX84C15W-FDICT-ND◆	2.81	19.80	90.00	BZX84C15W-FDITR-ND◆	81.00/M
16	5.0	40	BZX84C16W-FDICT-ND◆	2.81	19.80	90.00	BZX84C16W-FDITR-ND◆	81.00/M
18	5.0	45	BZX84C18WDICT-ND	2.81	19.80	90.00	BZX84C18WDITR-ND	81.00/M
18	5.0	45	BZX84C18W-FDICT-ND◆	2.81	19.80	90.00	BZX84C18W-FDITR-ND◆	81.00/M
20	5.0	55	BZX84C20W-FDICT-ND◆	2.81	19.80	90.00	BZX84C20W-FDITR-ND◆	81.00/M
22	5.0	55	BZX84C22W-FDICT-ND◆	2.81	19.80	90.00	BZX84C22W-FDITR-ND◆	81.00/M
24	5.0	70	BZX84C24W-FDICT-ND◆	2.81	19.80	90.00	BZX84C24W-FDITR-ND◆	81.00/M
27	2.0	80	BZX84C27WDICT-ND	2.81	19.80	90.00	BZX84C27WDITR-ND	81.00/M
27	2.0	80	BZX84C27W-FDICT-ND◆	2.81	19.80	90.00	BZX84C27W-FDITR-ND◆	81.00/M
30	2.0	80	BZX84C30WDICT-ND	2.81	19.80	90.00	—	—
30	2.0	80	BZX84C30W-FDICT-ND◆	2.81	19.80	90.00	BZX84C30W-FDITR-ND◆	81.00/M
33	2.0	80	BZX84C33WDICT-ND	2.81	19.80	90.00	BZX84C33WDITR-ND	81.00/M
33	2.0	80	BZX84C33W-FDICT-ND◆	2.81	19.80	90.00	BZX84C33W-FDITR-ND◆	81.00/M
36	2.0	90	BZX84C36WDICT-ND	2.81	19.80	90.00	—	—
36	2.0	90	BZX84C36W-FDICT-ND◆	2.81	19.80	90.00	BZX84C36W-FDITR-ND◆	81.00/M
39	2.0	130	BZX84C39WDICT-ND	2.81	19.80	90.00	BZX84C39WDITR-ND	81.00/M
39	2.0	130	BZX84C39W-FDICT-ND◆	2.81	19.80	90.00	BZX84C39W-FDITR-ND◆	81.00/M
MMBZ Series								
2.4	20	30	MMBZ5221BWDICT-ND	2.81	19.80	90.00	—	—
2.4	20	30	MMBZ5221BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5221BW-FDITR-ND◆	81.00/M
2.7	20	30	MMBZ5223BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5223BW-FDITR-ND◆	81.00/M
3.0	20	30	MMBZ5225BWDICT-ND	2.81	19.80	90.00	MMBZ5225BWDITR-ND	81.00/M
3.0	20	30	MMBZ5225BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5225BW-FDITR-ND◆	81.00/M
3.3	20	28	MMBZ5226BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5226BW-FDITR-ND◆	81.00/M
3.6	20	24	MMBZ5227BWDICT-ND	2.81	19.80	90.00	MMBZ5227BWDITR-ND	81.00/M
3.6	20	24	MMBZ5227BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5227BW-FDITR-ND◆	81.00/M
3.9	20	23	MMBZ5228BWDICT-ND	2.81	19.80	90.00	—	—
3.9	20	23	MMBZ5228BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5228BW-FDITR-ND◆	81.00/M
4.3	20	22	MMBZ5229BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5229BW-FDITR-ND◆	81.00/M
4.7	20	19	MMBZ5230BWDICT-ND	2.81	19.80	90.00	MMBZ5230BWDITR-ND	81.00/M
4.7	20	19	MMBZ5230BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5230BW-FDITR-ND◆	81.00/M
5.1	20	17	MMBZ5231BWDICT-ND	2.81	19.80	90.00	MMBZ5231BWDITR-ND	81.00/M
5.1	20	17	MMBZ5231BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5231BW-FDITR-ND◆	81.00/M
5.6	20	11	MMBZ5232BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5232BW-FDITR-ND◆	81.00/M
6.2	20	7.0	MMBZ5234BWDICT-ND	2.81	19.80	90.00	MMBZ5234BWDITR-ND	81.00/M
6.2	20	7.0	MMBZ5234BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5234BW-FDITR-ND◆	81.00/M
6.8	20	5.0	MMBZ5235BWDICT-ND	2.81	19.80	90.00	MMBZ5235BWDITR-ND	81.00/M
6.8	20	5.0	MMBZ5235BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5235BW-FDITR-ND◆	81.00/M
7.5	20	6.0	MMBZ5236BWDICT-ND	2.81	19.80	90.00	MMBZ5236BWDITR-ND	81.00/M
7.5	20	6.0	MMBZ5236BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5236BW-FDITR-ND◆	81.00/M
8.2	20	8.0	MMBZ5237BWDICT-ND	2.81	19.80	90.00	—	—
8.2	20	8.0	MMBZ5237BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5237BW-FDITR-ND◆	81.00/M
9.1	20	10	MMBZ5239BWDICT-ND	2.81	19.80	90.00	—	—
9.1	20	10	MMBZ5239BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5239BW-FDITR-ND◆	81.00/M
10	20	17	MMBZ5240BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5240BW-FDITR-ND◆	81.00/M
11	20	22	MMBZ5241BWDICT-ND	2.81	19.80	90.00	MMBZ5241BWDITR-ND	81.00/M
11	20	22	MMBZ5241BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5241BW-FDITR-ND◆	81.00/M
12	20	30	MMBZ5242BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5242BW-FDITR-ND◆	81.00/M
13	9.5	13	MMBZ5243BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5243BW-FDITR-ND◆	81.00/M
15	8.5	16	MMBZ5245BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5245BW-FDITR-ND◆	81.00/M
16	7.8	17	MMBZ5246BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5246BW-FDITR-ND◆	81.00/M
18	7.0	21	MMBZ5248BWDICT-ND	2.81	19.80	90.00	—	—
18	7.0	21	MMBZ5248BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5248BW-FDITR-ND◆	81.00/M
20	6.2	25	MMBZ5250BWDICT-ND	2.81	19.80	90.00	—	—
20	6.2	25	MMBZ5250BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5250BW-FDITR-ND◆	81.00/M
22	5.6	29	MMBZ5251BWDICT-ND	2.81	19.80	90.00	MMBZ5251BWDITR-ND	81.00/M
22	5.6	29	MMBZ5251BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5251BW-FDITR-ND◆	81.00/M
24	5.2	33	MMBZ5252BWDICT-ND	2.81	19.80	90.00	—	—
24	5.2	33	MMBZ5252BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5252BW-FDITR-ND◆	81.00/M
27	5.0	41	MMBZ5254BWDICT-ND	2.81	19.80	90.00	MMBZ5254BWDITR-ND	81.00/M
27	5.0	41	MMBZ5254BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5254BW-FDITR-ND◆	81.00/M
28	4.5	44	MMBZ5255BWDICT-ND	2.81	19.80	90.00	MMBZ5255BWDITR-ND	81.00/M
28	4.5	44	MMBZ5255BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5255BW-FDITR-ND◆	81.00/M
30	4.2	49	MMBZ5256BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5256BW-FDITR-ND◆	81.00/M
33	3.8	58	MMBZ5257BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5257BW-FDITR-ND◆	81.00/M
36	3.4	70	MMBZ5258BWDICT-ND	2.81	19.80	90.00	—	—
36	3.4	70	MMBZ5258BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5258BW-FDITR-ND◆	81.00/M
39	3.2	80	MMBZ5259BWDICT-ND	2.81	19.80	90.00	MMBZ5259BWDITR-ND	81.00/M
39	3.2	80	MMBZ5259BW-FDICT-ND◆	2.81	19.80	90.00	MMBZ5259BW-FDITR-ND◆	81.00/M

◆ ***RoHS Compliant***

(Continued)

SOT-363 Dual Isolated Surface Mount Zener Diodes – 200mW

BZX Series

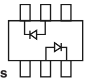

MMBZ Series

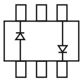

Zener Voltage V_Z @ I_{ZT} Nominal (V)	Test Current I_{ZT} (mA)	Max. Dynamic Imped. Z_{ZT}@I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing
				10	100	1,000		3,000
BZX Series								
2.4	5.0	100	BZX84C2V4S-FDICT-ND◆	3.13	22.00	100.00	—	—
2.7	5.0	100	BZX84C2V7SDICT-ND	3.13	22.00	100.00	BZX84C2V7SDITR-ND	90.00/M
2.7	5.0	100	BZX84C2V7S-FDICT-ND◆	3.13	22.00	100.00	BZX84C2V7S-FDITR-ND◆	90.00/M
3.0	5.0	95	BZX84C3V0S-FDICT-ND◆	3.13	22.00	100.00	BZX84C3V0S-FDITR-ND◆	90.00/M
3.3	5.0	95	BZX84C3V3SDICT-ND	3.13	22.00	100.00	—	—
3.3	5.0	95	BZX84C3V3S-FDICT-ND◆	3.13	22.00	100.00	BZX84C3V3S-FDITR-ND◆	90.00/M
3.6	5.0	90	BZX84C3V6SDICT-ND	3.13	22.00	100.00	—	—
3.6	5.0	90	BZX84C3V6S-FDICT-ND◆	3.13	22.00	100.00	BZX84C3V6S-FDITR-ND◆	90.00/M
3.9	5.0	90	BZX84C3V9SDICT-ND	3.13	22.00	100.00	—	—
3.9	5.0	90	BZX84C3V9S-FDICT-ND◆	3.13	22.00	100.00	BZX84C3V9S-FDITR-ND◆	90.00/M
4.3	5.0	90	BZX84C4V3S-FDICT-ND◆	3.13	22.00	100.00	BZX84C4V3S-FDITR-ND◆	90.00/M
4.7	5.0	80	BZX84C4V7SDICT-ND	3.13	22.00	100.00	BZX84C4V7SDITR-ND	90.00/M
4.7	5.0	80	BZX84C4V7S-FDICT-ND◆	3.13	22.00	100.00	BZX84C4V7S-FDITR-ND◆	90.00/M
5.1	5.0	60	BZX84C5V1S-FDICT-ND◆	3.13	22.00	100.00	BZX84C5V1S-FDITR-ND◆	90.00/M
5.6	5.0	40	BZX84C5V6S-FDICT-ND◆	3.13	22.00	100.00	BZX84C5V6S-FDITR-ND◆	90.00/M
6.2	5.0	10	BZX84C6V2S-FDICT-ND◆	3.13	22.00	100.00	BZX84C6V2S-FDITR-ND◆	90.00/M
6.8	5.0	15	BZX84C6V8SDICT-ND	3.13	22.00	100.00	—	—
6.8	5.0	15	BZX84C6V8S-FDICT-ND◆	3.13	22.00	100.00	BZX84C6V8S-FDITR-ND◆	90.00/M
7.5	5.0	15	BZX84C7V5SDICT-ND	3.13	22.00	100.00	BZX84C7V5SDITR-ND	90.00/M
7.5	5.0	15	BZX84C7V5S-FDICT-ND◆	3.13	22.00	100.00	BZX84C7V5S-FDITR-ND◆	90.00/M
8.2	5.0	15	BZX84C8V2SDICT-ND	3.13	22.00	100.00	BZX84C8V2SDITR-ND	90.00/M
8.2	5.0	15	BZX84C8V2S-FDICT-ND◆	3.13	22.00	100.00	BZX84C8V2S-FDITR-ND◆	90.00/M
9.1	5.0	15	BZX84C9V1SDICT-ND	3.13	22.00	100.00	BZX84C9V1SDITR-ND	90.00/M
9.1	5.0	15	BZX84C9V1S-FDICT-ND◆	3.13	22.00	100.00	BZX84C9V1S-FDITR-ND◆	90.00/M
10	5.0	20	BZX84C10S-FDICT-ND◆	3.13	22.00	100.00	BZX84C10S-FDITR-ND◆	90.00/M
11	5.0	20	BZX84C11SDICT-ND	3.13	22.00	100.00	BZX84C11SDITR-ND	90.00/M
11	5.0	20	BZX84C11S-FDICT-ND◆	3.13	22.00	100.00	BZX84C11S-FDITR-ND◆	90.00/M
12	5.0	25	BZX84C12SDICT-ND	3.13	22.00	100.00	—	—
12	5.0	25	BZX84C12S-FDICT-ND◆	3.13	22.00	100.00	BZX84C12S-FDITR-ND◆	90.00/M
13	5.0	30	BZX84C13S-FDICT-ND◆	3.13	22.00	100.00	BZX84C13S-FDITR-ND◆	90.00/M
15	5.0	30	BZX84C15SDICT-ND	3.13	22.00	100.00	—	—
15	5.0	30	BZX84C15S-FDICT-ND◆	3.13	22.00	100.00	BZX84C15S-FDITR-ND◆	90.00/M
16	5.0	40	BZX84C16S-FDICT-ND◆	3.13	22.00	100.00	BZX84C16S-FDITR-ND◆	90.00/M
18	5.0	45	BZX84C18SDICT-ND	3.13	22.00	100.00	—	—
18	5.0	45	BZX84C18S-FDICT-ND◆	3.13	22.00	100.00	BZX84C18S-FDITR-ND◆	90.00/M
20	5.0	55	BZX84C20SDICT-ND	3.13	22.00	100.00	BZX84C20SDITR-ND	90.00/M
20	5.0	55	BZX84C20S-FDICT-ND◆	3.13	22.00	100.00	BZX84C20S-FDITR-ND◆	90.00/M
22	5.0	55	BZX84C22SDICT-ND	3.13	22.00	100.00	BZX84C22SDITR-ND	90.00/M
22	5.0	55	BZX84C22S-FDICT-ND◆	3.13	22.00	100.00	BZX84C22S-FDITR-ND◆	90.00/M
24	5.0	70	BZX84C24SDICT-ND	3.13	22.00	100.00	BZX84C24SDITR-ND	90.00/M
24	5.0	70	BZX84C24S-FDICT-ND◆	3.13	22.00	100.00	BZX84C24S-FDITR-ND◆	90.00/M
27	2.0	80	BZX84C27SDICT-ND	3.13	22.00	100.00	—	—
27	2.0	80	BZX84C27S-FDICT-ND◆	3.13	22.00	100.00	BZX84C27S-FDITR-ND◆	90.00/M
30	2.0	80	BZX84C30S-FDICT-ND◆	3.13	22.00	100.00	BZX84C30S-FDITR-ND◆	90.00/M
33	2.0	80	BZX84C33SDICT-ND	3.13	22.00	100.00	BZX84C33SDITR-ND	90.00/M
33	2.0	80	BZX84C33S-FDICT-ND◆	3.13	22.00	100.00	BZX84C33S-FDITR-ND◆	90.00/M
36	2.0	90	BZX84C36SDICT-ND	3.13	22.00	100.00	—	—
36	2.0	90	BZX84C36S-FDICT-ND◆	3.13	22.00	100.00	BZX84C36S-FDITR-ND◆	90.00/M
39	2.0	130	BZX84C39SDICT-ND	3.13	22.00	100.00	BZX84C39SDITR-ND	90.00/M
39	2.0	130	BZX84C39S-FDICT-ND◆	3.13	22.00	100.00	BZX84C39S-FDITR-ND◆	90.00/M
MMBZ Series								
2.4	20	30	MMBZ5221BSDICT-ND	3.13	22.00	100.00	MMBZ5221BSDITR-ND	90.00/M
2.4	20	30	MMBZ5221BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5221BS-FDITR-ND◆	90.00/M
2.7	20	30	MMBZ5223BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5223BS-FDITR-ND◆	90.00/M
3.0	20	30	MMBZ5225BSDICT-ND	3.13	22.00	100.00	MMBZ5225BSDITR-ND	90.00/M
3.0	20	30	MMBZ5225BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5225BS-FDITR-ND◆	90.00/M
3.3	20	28	MMBZ5226BSDICT-ND	3.13	22.00	100.00	MMBZ5226BSDITR-ND	90.00/M
3.3	20	28	MMBZ5226BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5226BS-FDITR-ND◆	90.00/M
3.6	20	24	MMBZ5227BSDICT-ND	3.13	22.00	100.00	—	—
3.6	20	24	MMBZ5227BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5227BS-FDITR-ND◆	90.00/M
3.9	20	23	MMBZ5228BSDICT-ND	3.13	22.00	100.00	MMBZ5228BSDITR-ND	90.00/M
3.9	20	23	MMBZ5228BS-FDICT-ND◆	2.81	19.80	90.00	MMBZ5228BS-FDITR-ND◆	81.00/M
4.3	20	22	MMBZ5229BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5229BS-FDITR-ND◆	90.00/M
4.7	20	19	MMBZ5230BSDICT-ND	3.13	22.00	100.00	—	—
4.7	20	19	MMBZ5230BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5230BS-FDITR-ND◆	90.00/M
5.1	20	17	MMBZ5231BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5231BS-FDITR-ND◆	90.00/M
5.6	20	11	MMBZ5232BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5232BS-FDITR-ND◆	90.00/M
6.0	20	7	MMBZ5233BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5233BS-FDITR-ND◆	90.00/M
6.2	20	7	MMBZ5234BSDICT-ND	3.13	22.00	100.00	MMBZ5234BSDITR-ND	90.00/M
6.2	20	7	MMBZ5234BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5234BS-FDITR-ND◆	90.00/M
6.8	20	5	MMBZ5235BSDICT-ND	3.13	22.00	100.00	—	—
6.8	20	5	MMBZ5235BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5235BS-FDITR-ND◆	90.00/M
7.5	20	6	MMBZ5236BSDICT-ND	3.13	22.00	100.00	MMBZ5236BSDITR-ND	90.00/M
7.5	20	6	MMBZ5236BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5236BS-FDITR-ND◆	90.00/M
8.2	20	8	MMBZ5237BSDICT-ND	3.13	22.00	100.00	MMBZ5237BSDITR-ND	90.00/M
8.2	20	8	MMBZ5237BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5237BS-FDITR-ND◆	90.00/M
8.7	20	8	MMBZ5238BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5238BS-FDITR-ND◆	90.00/M
9.1	20	10	MMBZ5239BSDICT-ND	3.13	22.00	100.00	MMBZ5239BSDITR-ND	90.00/M
9.1	20	10	MMBZ5239BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5239BS-FDITR-ND◆	90.00/M
10	20	17	MMBZ5240BSDICT-ND	3.13	22.00	100.00	MMBZ5240BSDITR-ND	90.00/M
10	20	17	MMBZ5240BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5240BS-FDITR-ND◆	90.00/M
11	20	22	MMBZ5241BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5241BS-FDITR-ND◆	90.00/M
12	20	30	MMBZ5242BSDICT-ND	3.13	22.00	100.00	MMBZ5242BSDITR-ND	90.00/M
12	20	30	MMBZ5242BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5242BS-FDITR-ND◆	90.00/M
13	9.5	13	MMBZ5243BSDICT-ND	3.13	22.00	100.00	MMBZ5243BSDITR-ND	90.00/M
13	9.5	13	MMBZ5243BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5243BS-FDITR-ND◆	90.00/M
15	8.5	16	MMBZ5245BSDICT-ND	3.13	22.00	100.00	MMBZ5245BSDITR-ND	90.00/M
15	8.5	16	MMBZ5245BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5245BS-FDITR-ND◆	90.00/M
16	7.8	17	MMBZ5246BSDICT-ND	3.13	22.00	100.00	MMBZ5246BSDITR-ND	90.00/M
16	7.8	17	MMBZ5246BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5246BS-FDITR-ND◆	90.00/M
18	7.0	21	MMBZ5248BSDICT-ND	3.13	22.00	100.00	MMBZ5248BSDITR-ND	90.00/M
18	7.0	21	MMBZ5248BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5248BS-FDITR-ND◆	90.00/M
20	6.2	25	MMBZ5250BSDICT-ND	3.13	22.00	100.00	MMBZ5250BSDITR-ND	90.00/M
20	6.2	25	MMBZ5250BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5250BS-FDITR-ND◆	90.00/M
22	5.6	29	MMBZ5251BSDICT-ND	3.13	22.00	100.00	MMBZ5251BSDITR-ND	90.00/M
22	5.6	29	MMBZ5251BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5251BS-FDITR-ND◆	90.00/M
24	5.2	33	MMBZ5252BSDICT-ND	3.13	22.00	100.00	MMBZ5252BSDITR-ND	90.00/M
24	5.2	33	MMBZ5252BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5252BS-FDITR-ND◆	90.00/M
27	5.0	41	MMBZ5254BSDICT-ND	3.13	22.00	100.00	MMBZ5254BSDITR-ND	90.00/M
27	5.0	41	MMBZ5254BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5254BS-FDITR-ND◆	90.00/M
28	4.5	44	MMBZ5255BSDICT-ND	3.13	22.00	100.00	MMBZ5255BSDITR-ND	90.00/M
28	4.5	44	MMBZ5255BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5255BS-FDITR-ND◆	90.00/M
30	4.2	49	MMBZ5256BSDICT-ND	3.13	22.00	100.00	—	—
30	4.2	49	MMBZ5256BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5256BS-FDITR-ND◆	90.00/M
33	3.8	58	MMBZ5257BSDICT-ND	3.13	22.00	100.00	MMBZ5257BSDITR-ND	90.00/M
33	3.8	58	MMBZ5257BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5257BS-FDITR-ND◆	90.00/M
36	3.4	70	MMBZ5258BSDICT-ND	3.13	22.00	100.00	MMBZ5258BSDITR-ND	90.00/M
36	3.4	70	MMBZ5258BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5258BS-FDITR-ND◆	90.00/M
39	3.2	80	MMBZ5259BSDICT-ND	3.13	22.00	100.00	MMBZ5259BSDITR-ND	90.00/M
39	3.2	80	MMBZ5259BS-FDICT-ND◆	3.13	22.00	100.00	MMBZ5259BS-FDITR-ND◆	90.00/M

◆ *RoHS Compliant*

SOT-363 Triple Isolated Surface Mount Zener Diodes – 200mW

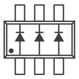

Zener Voltage V_Z @ I_{ZT} Nominal (V)	Test Current I_{ZT} (mA)	Max. Dynamic Imped. Z_{ZT}@I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing
				10	100	1,000		3,000
5.1	5	60	BZX84C5V1TS-FDICT-ND	5.40	40.50	232.50	BZX84C5V1TS-FDITR-ND	214.00/M
5.6	5	40	BZX84C5V6TS-FDICT-ND	5.40	40.50	232.50	BZX84C5V6TS-FDITR-ND	214.00/M
6.2	5	10	BZX84C6V2TS-FDICT-ND	5.40	40.50	232.50	BZX84C6V2TS-FDITR-ND	214.00/M
12	5	25	BZX84C12TS-FDICT-ND	5.40	40.50	232.50	BZX84C12TS-FDITR-ND	214.00/M
27	2	80	BZX84C27TS-FDICT-ND	5.40	40.50	232.50	BZX84C27TS-FDITR-ND	214.00/M

SOT-363 Quad Isolated Surface Mount Zener Diodes – 200mW

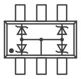

Zener Voltage V_Z @ I_{ZT} Nominal (V)	Test Current I_{ZT} (mA)	Max. Dynamic Imped. Z_{ZT}@I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing
				10	100	1,000		3,000
20	5	55	QZX363C20-FDICT-ND	6.48	48.60	279.00	QZX363C20-FDITR-ND	257.00/M

SOT-523 Surface Mount Zener Diodes – 150mW

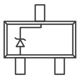

Zener Voltage V_Z @ I_{ZT} Nominal (V)	Test Current I_{ZT} (mA)	Max. Dynamic Imped. Z_{ZT}@I_{ZT} (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing
				10	100	1,000		3,000
10	5	20	BZX84C10T-FDICT-ND	2.50	18.00	90.00	BZX84C10T-FDITR-ND	85.00/M

SMA Surface Mount Zener Diodes 1.0W, 5% Tolerance

Zener Voltage V_Z @ I_{ZT} Nom. (V)	Test Current I_{ZT} (mA)	Maximum Dynamic Impedance Z_{ZT}@I_{ZT}(Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing
				10	100	500		5,000
5.1	100	5.0	SMAZ5V1-FDICT-ND	4.00	28.80	84.00	SMAZ5V1-FDITR-ND	128.00/M
5.6	100	2.0	SMAZ5V6-FDICT-ND	4.00	28.80	84.00	SMAZ5V6-FDITR-ND	128.00/M
6.2	100	2.0	SMAZ6V2-FDICT-ND	4.00	28.80	84.00	SMAZ6V2-FDITR-ND	128.00/M
6.8	100	2.0	SMAZ6V8-FDICT-ND	4.00	28.80	84.00	SMAZ6V8-FDITR-ND	128.00/M
7.5	100	2.0	SMAZ7V5-FDICT-ND	4.00	28.80	84.00	SMAZ7V5-FDITR-ND	128.00/M
8.2	100	2.0	SMAZ8V2-FDICT-ND	4.00	28.80	84.00	SMAZ8V2-FDITR-ND	128.00/M
9.1	50	4.0	SMAZ9V1-FDICT-ND	4.00	28.80	84.00	SMAZ9V1-FDITR-ND	128.00/M
10	50	4.0	SMAZ10-FDICT-ND	4.00	28.80	84.00	SMAZ10-FDITR-ND	128.00/M
12	50	7.0	SMAZ12-FDICT-ND	4.00	28.80	84.00	SMAZ12-FDITR-ND	128.00/M
15	50	10	SMAZ15-FDICT-ND	3.55	25.56	74.55	SMAZ15-FDITR-ND	114.00/M
16	25	15	SMAZ16-FDICT-ND	4.00	28.80	84.00	SMAZ16-FDITR-ND	128.00/M
18	25	15	SMAZ18-FDICT-ND	4.00	28.80	84.00	SMAZ18-FDITR-ND	128.00/M
20	25	15	SMAZ20-FDICT-ND	4.00	28.80	84.00	SMAZ20-FDITR-ND	128.00/M
22	25	15	SMAZ22-FDICT-ND	4.00	28.80	84.00	SMAZ22-FDITR-ND	128.00/M
24	25	15	SMAZ24-FDICT-ND	4.00	28.80	84.00	SMAZ24-FDITR-ND	128.00/M
27	25	15	SMAZ27-FDICT-ND	4.00	28.80	84.00	SMAZ27-FDITR-ND	128.00/M
30	25	15	SMAZ30-FDICT-ND	4.00	28.80	84.00	SMAZ30-FDITR-ND	128.00/M
33	25	15	SMAZ33-FDICT-ND	4.00	28.80	84.00	SMAZ33-FDITR-ND	128.00/M
36	10	40	SMAZ36-FDICT-ND	4.00	28.80	84.00	SMAZ36-FDITR-ND	128.00/M
39	10	40	SMAZ39-FDICT-ND	4.00	28.80	84.00	SMAZ39-FDITR-ND	128.00/M

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

DIODES INCORPORATED

Glass Passivated Bridge Rectifiers

Storage Temperature: -65°C ~ 150°C

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Instant. Voltage Drop (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
RH Series — RoHS Compliant											
1	0.5	200	30	1.15	-55 ~ 150	RH02DICT-ND	1.08	.87	.65	RH02DITR-ND	480.00/M
		400	30	1.15	-55 ~ 150	RH04DICT-ND	.96	.77	.58	RH04DITR-ND	319.00/M
		600	30	1.15	-55 ~ 150	RH06DICT-ND	.86	.68	.52	RH06DITR-ND	338.00/M
HD Series — RoHS Compliant											
1	0.8	100	30	1.0	-55 ~ 150	HD01DICT-ND	.70	.56	.42	HD01DITR-ND	210.00/M
		200	30	1.0	-55 ~ 150	HD02DICT-ND	.60	.48	.36	HD02DITR-ND	200.00/M
		400	30	1.0	-55 ~ 150	HD04DICT-ND	.64	.52	.39	HD04DITR-ND	213.00/M
		600	30	1.0	-55 ~ 150	HD06DICT-ND	.68	.55	.41	HD06DITR-ND	226.00/M

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Instant. Forward Voltage (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Tape and Reel§ Pricing 1,500
DF-S Series — RoHS Compliant											
2	1.5	50	50	1.1	-65 ~ 150	DF15005SDICT-ND	.84	.68	.51	.35	305.00/M
		100	50	1.1	-65 ~ 150	DF1501SDICT-ND	.84	.68	.51	.35	305.00/M
		200	50	1.1	-65 ~ 150	DF1502SDICT-ND	.84	.68	.51	.35	305.00/M
		400	50	1.1	-65 ~ 150	DF1504SDICT-ND	.84	.68	.51	.35	305.00/M
		600	50	1.1	-65 ~ 150	DF1506SDICT-ND	.96	.77	.58	.40	348.00/M
		800	50	1.1	-65 ~ 150	DF1508SDICT-ND	1.01	.88	.68	.45	392.00/M
		1000	50	1.1	-65 ~ 150	DF1510SDICT-ND	.89	.71	.54	.40	359.00/M

§ For Tape and Reel part number, change CT-ND to TR-ND.

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Instant. Forward Voltage (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Price Each 1	10	100	500
DF-S Series — RoHS Compliant										
2	1.0	50	50	1.1	-65 ~ 150	DF005SDI-ND	.76	.61	.46	.32
		100	50	1.1	-65 ~ 150	DF01SDI-ND	.68	.55	.41	.29
		200	50	1.1	-65 ~ 150	DF02SDI-ND	.76	.61	.46	.32
		400	50	1.1	-65 ~ 150	DF04SDI-ND	.76	.61	.46	.32
		600	50	1.1	-65 ~ 150	DF06SDI-ND	.88	.71	.53	.37
		800	50	1.1	-65 ~ 150	DF08SDI-ND	.96	.77	.58	.40
		1000	50	1.1	-65 ~ 150	DF10SDI-ND	.96	.77	.58	.40
DF-M Series — RoHS Compliant										
3	1.0	50	45	1.1	-65 ~ 150	DF005MDI-ND	.60	.48	.36	.25
		100	45	1.1	-65 ~ 150	DF01MDI-ND	.60	.48	.36	.25
		200	45	1.1	-65 ~ 150	DF02MDI-ND	.60	.48	.36	.25
		400	45	1.1	-65 ~ 150	DF04MDI-ND	.60	.48	.36	.25
		600	45	1.1	-65 ~ 150	DF06MDI-ND	.72	.58	.44	.30
		800	45	1.1	-65 ~ 150	DF08MDI-ND	.80	.64	.48	.33
		1000	45	1.1	-65 ~ 150	DF10MDI-ND	.80	.64	.48	.33
WxxG Series — RoHS Compliant										
4	1.5	50	50	1.0	-65 ~ 150	W005GDI-ND	.65	.52	.39	.24
		100	50	1.0	-65 ~ 150	W01GDI-ND	.70	.56	.42	.26
		200	50	1.0	-65 ~ 150	W02GDI-ND	.60	.48	.36	.25
		400	50	1.0	-65 ~ 150	W04GDI-ND	.64	.52	.39	.27
		600	50	1.0	-65 ~ 150	W06GDI-ND	.68	.55	.41	.29
		800	50	1.0	-65 ~ 150	W08GDI-ND	.70	.56	.42	.26
		1000	50	1.0	-65 ~ 150	W10GDI-ND	.72	.58	.44	.30
KBP Series — RoHS Compliant										
5	1.5	50	40	1.1	-55 ~ 125	KBP005G-ND	1.08	.87	.65	.45
		100	40	1.1	-55 ~ 125	KBP01G-ND	.94	.82	.63	.42
		200	40	1.1	-55 ~ 125	KBP02G-ND	.98	.85	.65	.44
		400	40	1.1	-55 ~ 125	KBP04G-ND	1.01	.88	.68	.45
		600	40	1.1	-55 ~ 125	KBP06G-ND	1.05	.91	.70	.47
		800	40	1.1	-55 ~ 125	KBP08G-ND	1.13	.98	.75	.50
		1000	40	1.1	-55 ~ 125	KBP10G-ND	1.20	1.04	.80	.54
	2.0	50	65	1.1	-65 ~ 150	KBP2005GDI-ND	1.08	.87	.65	.45
		100	65	1.1	-65 ~ 150	KBP201GDI-ND	.94	.82	.63	.42
		200	65	1.1	-65 ~ 150	KBP202GDI-ND	.98	.85	.65	.44
		400	65	1.1	-65 ~ 150	KBP204GDI-ND	1.01	.88	.68	.45
		600	65	1.1	-65 ~ 150	KBP206GDI-ND	1.05	.91	.70	.47
		1000	65	1.1	-65 ~ 150	KBP210GDI-ND	1.20	1.04	.80	.54
GBU Series — RoHS Compliant										
6	4.0	100	150	1.0	-55 ~ 150	GBU401DI-ND	1.35	1.07	.82	.60
		400	150	1.0	-55 ~ 150	GBU404DI-ND	1.42	1.12	.86	.63
		1000	150	1.0	-55 ~ 150	GBU410DI-ND	1.38	1.08	.85	.69
	6.0	100	175	1.0	-55 ~ 150	GBU601DI-ND	1.55	1.23	.94	.69
		400	175	1.0	-55 ~ 150	GBU604DI-ND	1.62	1.28	.98	.72
		1000	175	1.0	-55 ~ 150	GBU610DI-ND	1.51	1.18	.93	.76
	8.0	50	200	1.0	-55 ~ 150	GBU8005DI-ND	1.38	1.08	.85	.69
		100	200	1.0	-55 ~ 150	GBU801DI-ND	1.40	1.10	.87	.71
		200	200	1.0	-55 ~ 150	GBU802DI-ND	1.43	1.12	.88	.72
		400	200	1.0	-55 ~ 150	GBU804DI-ND	1.46	1.14	.90	.73
		600	200	1.0	-55 ~ 150	GBU806DI-ND	1.51	1.18	.93	.76
		1000	200	1.0	-55 ~ 150	GBU810DI-ND	1.70	1.33	1.05	.86
GBJ Series										
7	6.0	50	170	1.0	-65 ~ 150	GBJ6005-FDI-ND◆	1.92	1.60	1.35	.96
		100	170	1.0	-65 ~ 150	GBJ601-FDI-ND◆	1.98	1.65	1.39	.99
		200	170	1.0	-65 ~ 150	GBJ602-FDI-ND◆	2.01	1.68	1.41	1.01
		400	170	1.0	-65 ~ 150	GBJ604-FDI-ND◆	2.04	1.70	1.43	1.02
		600	170	1.0	-65 ~ 150	GBJ606-FDI-ND◆	2.10	1.75	1.47	1.05
		1000	170	1.0	-65 ~ 150	GBJ610-FDI-ND◆	2.28	1.90	1.60	1.14
	8.0	50	170	1.0	-65 ~ 150	GBJ8005DI-ND	1.84	1.43	1.13	.92
		50	170	1.0	-65 ~ 150	GBJ8005-FDI-ND◆	2.04	1.70	1.43	1.02
		100	170	1.0	-65 ~ 150	GBJ801DI-ND◆	1.89	1.47	1.17	.95
		100	170	1.0	-65 ~ 150	GBJ801-FDI-ND◆	2.10	1.75	1.47	1.05
		200	170	1.0	-65 ~ 150	GBJ802-FDI-ND◆	2.13	1.78	1.50	1.07
		400	170	1.0	-65 ~ 150	GBJ804-FDI-ND◆	2.16	1.80	1.52	1.08
		600	170	1.0	-65 ~ 150	GBJ806-FDI-ND◆	2.22	1.85	1.56	1.11
		1000	170	1.0	-65 ~ 150	GBJ810-FDI-ND◆	2.46	2.05	1.73	1.23

◆ *RoHS Compliant*

Fig. 1 — RH and HD Series

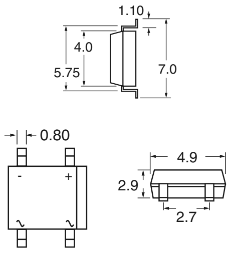

Fig. 2 — DF-S Series

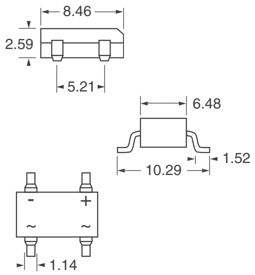

Fig. 3 — DF-M Series

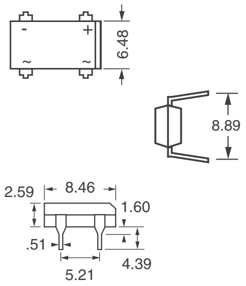

Fig. 4 — WxxG Series

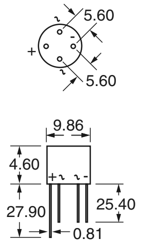

Fig. 5 — KBP Series

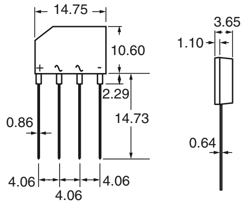

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Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Glass Passivated Bridge Rectifiers *(Cont.)*

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Instant. Forward Voltage (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Price Each 1	10	100	500
7	10.0	50	170	1.05	-65 ~ 150	GBJ10005-FDI-ND◆	2.13	1.78	1.50	1.07
		100	170	1.05	-65 ~ 150	GBJ1001-FDI-ND◆	2.19	1.83	1.54	1.10
		200	170	1.05	-65 ~ 150	GBJ1002-FDI-ND◆	2.22	1.85	1.56	1.11
		400	170	1.05	-65 ~ 150	GBJ1004-FDI-ND◆	2.25	1.88	1.58	1.13
		600	170	1.05	-65 ~ 150	GBJ1006-FDI-ND◆	2.31	1.93	1.62	1.16
		1000	170	1.05	-65 ~ 150	GBJ1010-FDI-ND◆	2.64	2.20	1.85	1.32
	15.0	50	240	1.05	-65 ~ 150	GBJ15005-FDI-ND◆	2.31	1.93	1.62	1.16
		100	240	1.05	-65 ~ 150	GBJ1501-FDI-ND◆	2.40	2.00	1.60	1.20
		200	240	1.05	-65 ~ 150	GBJ1502-FDI-ND◆	2.43	2.03	1.71	1.22
		400	240	1.05	-65 ~ 150	GBJ1504DI-ND	2.21	1.73	1.37	1.11
		400	240	1.05	-65 ~ 150	GBJ1504-FDI-ND◆	2.46	2.05	1.73	1.23
		600	240	1.05	-65 ~ 150	GBJ1506-FDI-ND◆	2.52	2.10	1.77	1.26
		1000	240	1.05	-65 ~ 150	GBJ1510-FDI-ND◆	2.76	2.30	1.84	1.38
	20.0	50	240	1.05	-65 ~ 150	GBJ20005DI-ND	2.13	1.66	1.32	1.07
		50	240	1.05	-65 ~ 150	GBJ20005-FDI-ND◆	2.37	1.98	1.66	1.19
		100	240	1.05	-65 ~ 150	GBJ2001-FDI-ND◆	2.43	2.03	1.71	1.22
		200	240	1.05	-65 ~ 150	GBJ2002-FDI-ND◆	2.46	2.05	1.73	1.23
		400	240	1.05	-65 ~ 150	GBJ2004-FDI-ND◆	2.52	2.10	1.77	1.26
		600	240	1.05	-65 ~ 150	GBJ2006-FDI-ND◆	2.58	2.15	1.81	1.29
		1000	240	1.05	-65 ~ 150	GBJ2010-FDI-ND◆	2.79	2.33	1.96	1.40
	25.0	50	350	1.05	-65 ~ 150	GBJ25005-FDI-ND◆	2.58	2.15	1.81	1.29
		100	350	1.05	-65 ~ 150	GBJ2501-FDI-ND◆	2.64	2.20	1.85	1.32
		200	350	1.05	-65 ~ 150	GBJ2502-FDI-ND◆	2.73	2.28	1.92	1.37
		400	350	1.05	-65 ~ 150	GBJ2504-FDI-ND◆	2.79	2.33	1.96	1.40
		600	350	1.05	-65 ~ 150	GBJ2506-FDI-ND◆	2.85	2.38	2.00	1.43
		1000	350	1.05	-65 ~ 150	GBJ2510-FDI-ND◆	2.75	2.40	1.79	1.43
GBPC Series — RoHS Compliant										
8	15.0	50	300	1.1	-65 ~ 150	GBPC15005DI-ND	2.30	1.85	1.50	1.30
		100	300	1.1	-55 ~ 150	GBPC1501DI-ND	2.65	2.13	1.73	1.50
		200	300	1.1	-55 ~ 150	GBPC1502DI-ND	2.76	2.22	1.80	1.56
		400	300	1.1	-55 ~ 150	GBPC1504DI-ND	2.88	2.32	1.88	1.63
		600	300	1.1	-55 ~ 150	GBPC1506DI-ND	2.88	2.32	1.88	1.63
		800	300	1.1	-55 ~ 150	GBPC1508DI-ND	3.11	2.50	2.03	1.76
		1000	300	1.1	-55 ~ 150	GBPC1510DI-ND	3.22	2.59	2.10	1.82
	25.0	100	300	1.1	-55 ~ 150	GBPC2501DI-ND	2.76	2.22	1.80	1.56
		200	300	1.1	-55 ~ 150	GBPC2502DI-ND	2.88	2.32	1.88	1.63
		400	300	1.1	-55 ~ 150	GBPC2504DI-ND	2.88	2.32	1.88	1.63
		600	300	1.1	-55 ~ 150	GBPC2506DI-ND	2.88	2.32	1.88	1.63
		800	300	1.1	-55 ~ 150	GBPC2508DI-ND	3.22	2.59	2.10	1.82
		1000	300	1.1	-55 ~ 150	GBPC2510DI-ND	3.22	2.59	2.10	1.82
	35.0	100	400	1.1	-55 ~ 150	GBPC3501DI-ND	2.99	2.41	1.95	1.69
		200	400	1.1	-55 ~ 150	GBPC3502DI-ND	3.11	2.50	2.03	1.76
		400	400	1.1	-55 ~ 150	GBPC3504DI-ND	3.22	2.59	2.10	1.82
		600	400	1.1	-55 ~ 150	GBPC3506DI-ND	3.22	2.59	2.10	1.82
		800	400	1.1	-55 ~ 150	GBPC3508DI-ND	3.45	2.78	2.25	1.95
		1000	400	1.1	-55 ~ 150	GBPC3510DI-ND	3.57	2.87	2.33	2.02

◆ ***RoHS Compliant***

Fig. 6 — GBU Series

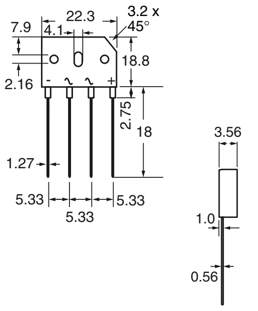

Fig. 7 — GBJ Series

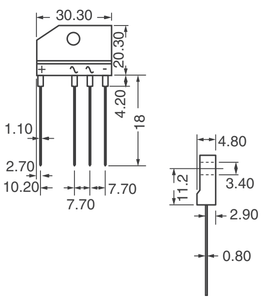

Fig. 8 — GBPC Series

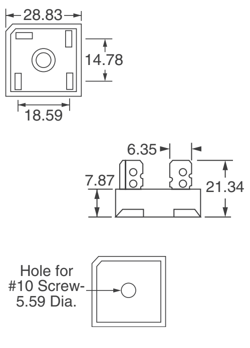

Bridge Rectifiers

Fig.	Max. Average Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (µA)	Max. Forward Voltage Peak (V)	Digi-Key Part No.	Price Each 1	10	100	500
1	4.0	50	200	10.0	1.0	RS401LDI-ND	1.32	1.04	.80	.58
		100	200	10.0	1.0	RS402LDI-ND	1.50	1.30	1.00	.67
		200	200	10.0	1.0	RS403LDI-ND	1.50	1.30	1.00	.67
		600	200	10.0	1.0	RS405LDI-FDI-ND	1.50	1.25	1.05	.75
2	6.0	50	200	10.0	1.0	PB605DI-ND	1.49	1.17	.90	.66
		100	200	10.0	1.0	PB61DI-ND	1.49	1.17	.90	.66
		200	200	10.0	1.0	PB62DI-ND	1.69	1.47	1.13	.75
		600	200	10.0	1.0	PB66-FDI-ND	1.69	1.47	1.13	.75
3	15.0	50	300	10.0	1.1	MB1505-ND	2.30	1.85	1.50	1.30
		200	300	10.0	1.1	MB152-ND	2.53	2.04	1.65	1.43
		600	300	10.0	1.1	MB156WDI-ND	3.24	2.82	2.10	1.68
	25.0	200	300	10.0	1.1	MB252DI-ND	2.65	2.13	1.73	1.50
		400	300	10.0	1.1	MB254-ND	3.24	2.82	2.10	1.68
		600	300	10.0	1.1	MB256DI-ND	3.38	2.94	2.19	1.75
		50	400	10.0	1.2	MB3505-FDI-ND	2.97	2.59	1.93	1.54
	35.0	200	400	10.0	1.2	MB352-ND	2.76	2.22	1.80	1.56
		200	400	10.0	1.2	MB352-FDI-ND	3.24	2.82	2.10	1.68
		400	400	10.0	1.2	MB354-ND	2.88	2.32	1.88	1.63

Fig. 1

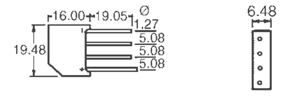

Fig. 2

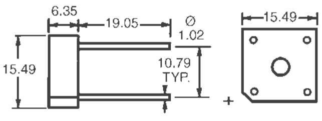

Fig. 3

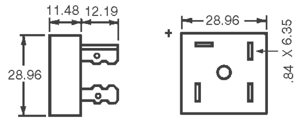

High-Efficiency Rectifiers

- Operating and Storage Temperature: -65°C ~ 175°C
- Reverse recovery test @ 1.0A, V_R = 30V

Fig.	Max. Average Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (µA)	Max. Forward Voltage Peak (V)	Max. Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
1	1.0	50	50	5.0	1.0	50	HER101DICT-ND	.41	3.00	21.12	HER101DITR-ND	5,000	82.00/M
		100	50	5.0	1.0	50	HER102DICT-ND	.46	3.38	23.76	HER102DITR-ND	5,000	92.00/M
		200	50	5.0	1.0	50	HER103DICT-ND	.48	3.56	25.08	HER103DITR-ND	5,000	97.00/M
		300	50	5.0	1.0	50	HER104DICT-ND	.48	3.70	26.64	—	—	—
		400	50	5.0	1.0	50	HER105DICT-ND	.46	3.68	27.60	—	—	—
2	3.0	50	200	10.0	1.0	50	HER301DICT-ND	.63	5.00	37.50	HER301DITR-ND	1,200	200.00/M
		100	200	10.0	1.0	50	HER302DICT-ND	.65	5.20	39.00	—	—	—
		200	200	10.0	1.0	50	HER303DICT-ND	.70	5.60	42.00	HER303DITR-ND	1,200	224.00/M
		400	200	10.0	1.0	50	HER305DICT-ND	.72	5.76	43.20	—	—	—

Dimensions in mm

Fig. 1 — DO-41

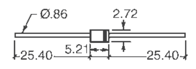

Fig. 2 — DO-201AD

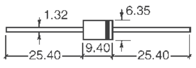

General Purpose and Schottky Diodes

Silicon and Glass Passivated Rectifiers

Dimensions in mm

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V_{RRM})	Max. Surge Current 8.3ms (A)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
1	1.0	50	30	1.1	1N4001DICT-ND◆	.26	1.36	7.65	27.63	1N4001DITR-ND◆	5,000	20.00/M
		100	30	1.1	1N4002DICT-ND◆	.26	1.36	7.65	27.63	1N4002DITR-ND◆	5,000	20.00/M
		200	30	1.1	1N4003DICT-ND◆	.26	1.36	7.65	27.63	1N4003DITR-ND◆	5,000	20.00/M
		400	30	1.1	1N4004DICT-ND◆	.26	1.36	7.65	27.63	1N4004DITR-ND◆	5,000	20.00/M
		600	30	1.1	1N4005DICT-ND◆	.26	1.36	7.65	27.63	1N4005DITR-ND◆	5,000	20.00/M
		800	30	1.1	1N4006DICT-ND◆	.26	1.36	7.65	27.63	1N4006DITR-ND◆	5,000	20.00/M
		1,000	30	1.1	1N4007DICT-ND◆	.26	1.36	7.65	27.63	1N4007DITR-ND◆	5,000	20.00/M
		50	30	1.0	1N4001GDICT-ND◆	.37	2.20	14.30	59.40	1N4001GDITR-ND◆	5,000	44.00/M
		100	30	1.0	1N4002GDICT-ND◆	.41	2.40	15.60	64.80	1N4002GDITR-ND◆	5,000	48.00/M
		200	30	1.0	1N4003GDICT-ND◆	.44	2.60	16.90	70.20	1N4003GDITR-ND◆	5,000	52.00/M
		400	30	1.0	1N4004GDICT-ND◆	.46	2.70	17.55	72.90	1N4004GDITR-ND◆	5,000	54.00/M
		600	30	1.0	1N4005GDICT-ND◆	.49	2.90	18.85	78.30	1N4005GDITR-ND◆	5,000	58.00/M
		800	30	1.0	1N4006GDICT-ND◆	.34	2.33	16.12	71.30	1N4006GDITR-ND◆	5,000	56.00/M
		1,000	30	1.0	1N4007GDICT-ND◆	.36	2.48	17.16	75.90	1N4007GDITR-ND◆	5,000	59.00/M
2	1.0	50	30	1.1	S1AB-FDICT-ND◆	.43	3.13	22.00	100.00	S1AB-FDITR-ND◆	3,000	90.00/M
		100	30	1.1	S1BB-FDICT-ND◆	.44	3.25	22.88	104.00	S1BB-FDITR-ND◆	3,000	94.00/M
		200	30	1.1	S1DB-FDICT-ND◆	.46	3.38	23.76	108.00	S1DB-FDITR-ND◆	3,000	97.00/M
		400	30	1.1	S1GB-FDICT-ND◆	.48	3.50	24.64	112.00	S1GB-FDITR-ND◆	3,000	101.00/M
		600	30	1.1	S1JB-FDICT-ND◆	.49	3.63	25.52	116.00	S1JB-FDITR-ND◆	3,000	104.00/M
		800	30	1.1	S1KB-FDICT-ND◆	.46	3.50	25.20	126.00	S1KB-FDITR-ND◆	3,000	119.00/M
		1,000	30	1.1	S1MB-FDICT-ND◆	.45	3.45	24.84	124.20	S1MB-FDITR-ND◆	3,000	117.00/M
	1.5	50	30	1.5	S2A-FDICT-ND◆	.43	3.13	22.00	100.00	S2A-FDITR-ND◆	3,000	90.00/M
		100	30	1.5	S2B-FDICT-ND◆	.43	3.13	22.00	100.00	S2B-FDITR-ND◆	3,000	90.00/M
		200	30	1.5	S2D-FDICT-ND◆	.43	3.13	22.00	100.00	S2D-FDITR-ND◆	3,000	90.00/M
		400	30	1.5	S2GDICT-ND	.43	3.13	22.00	100.00	—	—	—
		400	30	1.5	S2G-FDICT-ND◆	.43	3.13	22.00	100.00	S2G-FDITR-ND◆	3,000	90.00/M
		600	30	1.5	S2J-FDICT-ND◆	.39	3.00	21.60	108.00	S2J-FDITR-ND◆	3,000	102.00/M
		800	50	1.15	S2KDICT-ND	.39	3.00	21.60	108.00	S2KDITR-ND	3,000	102.00/M
		800	50	1.15	S2K-FDICT-ND◆	.39	3.00	21.60	108.00	S2K-FDITR-ND◆	3,000	102.00/M
		1,000	30	1.5	S2M-FDICT-ND◆	.39	3.00	21.60	108.00	S2M-FDITR-ND◆	3,000	102.00/M
	3.0	50	100	1.15	S3AB-FDICT-ND◆	.65	5.20	39.00	208.00	S3AB-FDITR-ND◆	3,000	195.00/M
		100	100	1.15	S3BB-FDICT-ND◆	.45	3.60	27.00	144.00	S3BB-FDITR-ND◆	3,000	135.00/M
		200	100	1.15	S3DB-FDICT-ND◆	.65	5.20	39.00	208.00	S3DB-FDITR-ND◆	3,000	195.00/M
		400	100	1.15	S3GB-FDICT-ND◆	.65	5.20	39.00	208.00	S3GB-FDITR-ND◆	3,000	195.00/M
		600	100	1.15	S3JB-FDICT-ND◆	.77	6.12	45.90	263.50	S3JB-FDITR-ND◆	3,000	242.00/M
		800	100	1.15	S3KB-FDICT-ND◆	.77	6.12	45.90	263.50	S3KB-FDITR-ND◆	3,000	242.00/M
		1,000	100	1.15	S3MB-FDICT-ND◆	.77	6.12	45.90	263.50	S3MB-FDITR-ND◆	3,000	242.00/M
3	1.0	50	30	1.1	DL4001-FDICT-ND◆	.43	2.93	20.28	89.70	DL4001-FDITR-ND◆	5,000	70.00/M
		100	30	1.1	DL4002-FDICT-ND◆	.33	2.25	15.60	69.00	DL4002-FDITR-ND◆	5,000	54.00/M
		200	30	1.1	DL4003-FDICT-ND◆	.33	2.25	15.60	69.00	DL4003-FDITR-ND◆	5,000	54.00/M
		400	30	1.1	DL4004-FDICT-ND◆	.43	2.93	20.28	89.70	DL4004-FDITR-ND◆	5,000	70.00/M
		600	30	1.1	DL4005-FDICT-ND◆	.39	2.63	18.20	80.50	DL4005-FDITR-ND◆	5,000	63.00/M
		800	30	1.1	DL4006-FDICT-ND◆	.46	3.15	21.84	96.60	DL4006-FDITR-ND◆	5,000	76.00/M
		1,000	30	1.1	DL4007-FDICT-ND◆	.46	3.15	21.84	96.60	DL4007-FDITR-ND◆	5,000	76.00/M
4	1.0	50	30	1.0	S1A-FDICT-ND◆	.47	3.23	22.36	98.90	S1A-FDITR-ND◆	5,000	77.00/M
		100	30	1.1	S1B-FDICT-ND◆	.38	2.81	19.80	90.00	S1B-FDITR-ND◆	5,000	77.00/M
		200	30	1.0	S1D-FDICT-ND◆	.39	2.88	20.24	92.00	S1D-FDITR-ND◆	5,000	78.00/M
		400	30	1.0	S1G-FDICT-ND◆	.40	2.94	20.68	94.00	S1G-FDITR-ND◆	5,000	80.00/M
		600	30	1.1	S1J-FDICT-ND◆	.41	3.00	21.12	96.00	S1J-FDITR-ND◆	5,000	82.00/M
		800	30	1.0	S1K-FDICT-ND◆	.48	3.50	24.64	112.00	S1K-FDITR-ND◆	5,000	95.00/M
		1,000	30	1.0	S1M-FDICT-ND◆	.42	3.20	23.04	115.20	S1M-FDITR-ND◆	5,000	102.00/M
	1.5	50	50	1.15	S2AA-FDICT-ND◆	.39	3.00	21.60	108.00	S2AA-FDITR-ND◆	5,000	96.00/M
		100	50	1.15	S2BADICT-ND	.39	3.00	21.60	108.00	—	—	—
		100	50	1.15	S2BA-FDICT-ND◆	.39	3.00	21.60	108.00	S2BA-FDITR-ND◆	5,000	96.00/M
		200	50	1.15	S2DA-FDICT-ND◆	.39	3.00	21.60	108.00	S2DA-FDITR-ND◆	5,000	96.00/M
		400	50	1.15	S2GA-FDICT-ND◆	.39	3.00	21.60	108.00	S2GA-FDITR-ND◆	5,000	96.00/M
		600	50	1.15	S2JADICT-ND	.46	3.50	25.20	126.00	—	—	—
		600	50	1.15	S2JA-FDICT-ND◆	.46	3.50	25.20	126.00	S2JA-FDITR-ND◆	5,000	112.00/M
		800	50	1.15	S2KA-FDICT-ND◆	.46	3.50	25.20	126.00	S2KA-FDITR-ND◆	5,000	112.00/M
		1,000	50	1.15	S2MA-FDICT-ND◆	.46	3.50	25.20	126.00	S2MA-FDITR-ND◆	5,000	112.00/M
5	3.0	50	100	1.15	S3A-FDICT-ND◆	.70	5.60	42.00	224.00	S3A-FDITR-ND◆	3,000	210.00/M
		100	100	1.15	S3B-FDICT-ND◆	.70	5.60	42.00	224.00	S3B-FDITR-ND◆	3,000	210.00/M
		200	100	1.15	S3D-FDICT-ND◆	.70	5.60	42.00	224.00	S3D-FDITR-ND◆	3,000	196.00/M

◆ ***RoHS Compliant***

(Continued)

Fig. 1 — DO-41

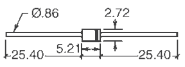

Fig. 2 — SMB

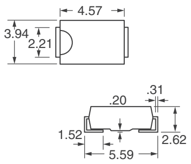

Fig. 3 — MELF (DL-41)

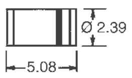

Fig. 4 — SMA

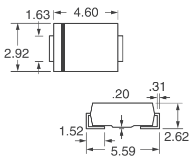

Fig. 5 — SMC

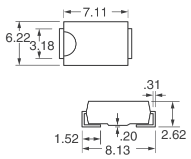

Fig. 6 — DO-15

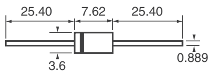

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

General Purpose and Schottky Diodes

Silicon and Glass Passivated Rectifiers *(Cont.)*

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V_{RRM})	Max. Surge Current 8.3ms (A)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel	
						1	10	100	1,000		Qty.	Pricing
5	3.0	400	100	1.15	S3G-FDICT-ND◆	.70	5.60	42.00	224.00	S3G-FDITR-ND◆	3,000	210.00/M
		600	100	1.15	S3J-FDICT-ND◆	.81	6.48	48.60	279.00	S3J-FDITR-ND◆	3,000	257.00/M
		800	100	1.15	S3KDICT-ND	.72	5.76	43.20	261.00	—	—	—
		800	100	1.15	S3K-FDICT-ND◆	.81	6.48	48.60	279.00	S3K-FDITR-ND◆	3,000	257.00/M
		1,000	100	1.15	S3M-FDICT-ND◆	.81	6.48	48.60	279.00	S3M-FDITR-ND◆	3,000	257.00/M
	5.0	50	100	1.15	S5AC-FDICT-ND◆	.72	5.76	43.20	248.00	S5AC-FDITR-ND◆	3,000	228.00/M
		100	100	1.15	S5BC-FDICT-ND◆	.77	6.12	45.90	263.50	S5BC-FDITR-ND◆	3,000	242.00/M
		200	100	1.15	S5DC-FDICT-ND◆	.81	6.48	48.60	279.00	S5DC-FDITR-ND◆	3,000	257.00/M
		400	100	1.15	S5GC-FDICT-ND◆	.90	7.20	54.00	310.00	S5GC-FDITR-ND◆	3,000	285.00/M
		600	100	1.15	S5JC-FDICT-ND◆	.95	7.56	56.70	325.50	S5JC-FDITR-ND◆	3,000	299.00/M
		800	100	1.15	S5KCDICT-ND	.92	7.36	55.20	—	S5KCDITR-ND	3,000	306.00/M
		800	100	1.15	S5KC-FDICT-ND◆	1.04	8.28	62.10	356.50	S5KC-FDITR-ND◆	3,000	328.00/M
		1,000	100	1.15	S5MC-FDICT-ND◆	.94	8.13	62.50	362.50	S5MC-FDITR-ND◆	3,000	333.00/M
	8.0	800	200	0.985	S8KCDICT-ND◆ ***NEW!***	1.08	8.64	64.80	372.00	S8KCDITR-ND◆ ***NEW!***	3,000	342.00/M
		1,000	200	0.985	S8MCDICT-ND◆ ***NEW!***	1.08	8.64	64.80	372.00	S8MCDITR-ND◆ ***NEW!***	3,000	342.00/M
6	2.0	600	70	1.0	RL205DICT-ND◆	.35	2.40	16.64	73.60	—	—	—
		800	70	1.0	RL206DICT-ND◆	.39	2.63	18.20	80.50	RL206DITR-ND◆	4,000	70.00/M
		50	65	1.1	2A01GDICT-ND◆	.37	2.55	17.68	78.20	2A01GDITR-ND◆	4,000	68.00/M
		100	65	1.1	2A02GDICT-ND◆	.37	2.55	17.68	78.20	2A02GDITR-ND◆	4,000	68.00/M
		200	65	1.1	2A03GDICT-ND◆	.37	2.55	17.68	78.20	2A03GDITR-ND◆	4,000	68.00/M
		400	65	1.1	2A04GDICT-ND◆	.42	2.85	19.76	87.40	2A04GDITR-ND◆	4,000	76.00/M
		600	65	1.1	2A05GDICT-ND◆	.41	2.78	19.24	85.10	2A05GDITR-ND◆	4,000	74.00/M
		800	65	1.1	2A06GDICT-ND◆	.46	3.15	21.84	96.60	2A06GDITR-ND◆	4,000	84.00/M
		1,000	65	1.1	2A07GDICT-ND◆	.38	2.81	19.80	90.00	2A07GDITR-ND◆	4,000	81.00/M
7	3.0	50	200	0.95	1N5400DICT-ND◆	.41	2.78	19.24	—	1N5400DITR-ND◆	1,200	85.00/M
		100	200	0.95	1N5401DICT-ND◆	.41	2.78	19.24	—	1N5401DITR-ND◆	1,200	85.00/M
		200	200	0.95	1N5402DICT-ND◆	.41	2.78	19.24	—	1N5402DITR-ND◆	1,200	85.00/M
		400	200	0.95	1N5404DICT-ND◆	.41	2.78	19.24	—	1N5404DITR-ND◆	1,200	85.00/M
		600	200	0.95	1N5406DICT-ND◆	.41	2.78	19.24	—	1N5406DITR-ND◆	1,200	85.00/M
		800	200	0.95	1N5407DICT-ND◆	.41	2.78	19.24	—	1N5407DITR-ND◆	1,200	85.00/M
		1,000	200	0.95	1N5408DICT-ND◆	.41	2.78	19.24	—	1N5408DITR-ND◆	1,200	85.00/M
		50	125	1.0	1N5400GDICT-ND◆	.47	3.60	25.92	—	1N5400GDITR-ND◆	1,200	130.00/M
		100	125	1.0	1N5401GDICT-ND◆	.48	3.70	26.64	—	1N5401GDITR-ND◆	1,200	133.00/M
		200	125	1.0	1N5402GDICT-ND◆	.50	3.85	27.72	—	1N5402GDITR-ND◆	1,200	139.00/M
		400	125	1.0	1N5404GDICT-ND◆	.53	4.10	29.52	—	1N5404GDITR-ND◆	1,200	148.00/M
		600	125	1.0	1N5406GDICT-ND◆	.58	4.45	32.04	—	1N5406GDITR-ND◆	1,200	160.00/M
		800	125	1.0	1N5407GDICT-ND◆	.46	3.64	27.30	—	1N5407GDITR-ND◆	1,200	146.00/M
		1,000	125	1.0	1N5408GDICT-ND◆	.51	4.04	30.30	—	1N5408GDITR-ND◆	1,200	162.00/M
8	6.0	50	400	0.9	6A05DICT-ND◆	.48	3.80	28.50	—	6A05DITR-ND◆	500	85.50
		100	400	0.9	6A1DICT-ND◆	.48	3.80	28.50	—	6A1DITR-ND◆	500	85.50
		200	400	0.9	6A2DICT-ND◆	.48	3.80	28.50	—	6A2DITR-ND◆	500	85.50
		400	400	0.9	6A4DICT-ND◆	.48	3.80	28.50	—	6A4DITR-ND◆	500	85.50
		600	400	0.9	6A6DICT-ND◆	.48	3.80	28.50	—	6A6DITR-ND◆	500	85.50
		800	400	0.9	6A8DICT-ND◆	.48	3.80	28.50	—	6A8DITR-ND◆	500	85.50
		1,000	400	0.9	6A10DICT-ND◆	.48	3.80	28.50	—	6A10DITR-ND◆	500	85.50
9	1.0	200	25	1.1	DFLR1200DICT-ND◆	.60	4.80	36.00	192.00	DFLR1200DITR-ND◆	3,000	180.00/M
		400	25	1.1	DFLR1400DICT-ND◆	.60	4.80	36.00	192.00	DFLR1400DITR-ND◆	3,000	180.00/M
		400	30	1.25	DFLU1400DICT-ND◆	.60	4.80	36.00	192.00	DFLU1400DITR-ND◆	3,000	180.00/M
10	3.0	400	100	1.15	PDR3GDICT-ND◆	.81	6.48	48.60	279.00	PDR3GDITR-ND◆	5,000	243.00/M
	5.0	400	100	1.15	PDR5GDICT-ND◆	.95	7.56	56.70	325.50	PDR5GDITR-ND◆	5,000	284.00/M
	3.0	400	55	1.28	PDU340DICT-ND◆	1.01	8.78	67.50	391.50	PDU340DITR-ND◆	5,000	344.00/M
	4.0	200	125	1.25	PDU420DICT-ND◆	1.09	9.43	72.50	420.50	PDU420DITR-ND◆	5,000	370.00/M
	5.0	400	125	1.25	PDU540DICT-ND◆	1.32	11.00	92.40	594.00	PDU540DITR-ND◆	5,000	561.00/M
	6.0	200	150	0.975	PDU620DICT-ND◆	1.56	13.00	109.20	702.00	PDU620DITR-ND◆	5,000	663.00/M

◆ ***RoHS Compliant***

Schottky Barrier Rectifiers

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
							1	10	100		Qty.	Pricing
1	1.0	20	25	1.0	0.45	1N5817DICT-ND◆	.39	3.00	21.60	1N5817DITR-ND◆	5,000	96.00/M
		20	40	1.0	0.55	SR102DICT-ND◆	.49	3.75	27.00	SR102DITR-ND◆	5,000	120.00/M
		30	25	1.0	0.55	1N5818DICT-ND◆	.39	3.00	21.60	1N5818DITR-ND◆	5,000	96.00/M
		40	25	1.0	0.60	1N5819DICT-ND◆	.39	3.00	21.60	1N5819DITR-ND◆	5,000	96.00/M
		30	40	1.0	0.55	SR103DICT-ND◆	.49	3.75	27.00	SR103DITR-ND◆	5,000	120.00/M
		40	40	1.0	0.55	SR104DICT-ND◆	.49	3.75	27.00	SR104DITR-ND◆	5,000	120.00/M
		50	40	1.0	0.70	SR105DICT-ND◆	.52	4.00	28.80	SR105DITR-ND◆	5,000	128.00/M
		60	40	1.0	0.70	SR106DICT-ND◆	.53	4.20	31.50	SR106DITR-ND◆	5,000	147.00/M
		100	25	0.5	0.80	SB1100DICT-ND◆	.55	4.40	33.00	SB1100DITR-ND◆	5,000	154.00/M
2	1.0	20	30	0.5	0.50	B120B-FDICT-ND◆	.63	5.00	37.50	B120B-FDITR-ND◆	3,000	188.00/M
		20	30	0.5	1.1	SK12DICT-ND	.63	5.00	37.50	SK12DITR-ND	3,000	188.00/M
		20	30	0.5	1.1	SK12-FDICT-ND◆	.63	5.00	37.50	SK12-FDITR-ND◆	3,000	188.00/M
		30	30	0.5	0.50	B130BDICT-ND	.65	5.20	39.00	—	—	—
		30	30	0.5	0.50	B130B-FDICT-ND◆	.65	5.20	39.00	B130B-FDITR-ND◆	3,000	195.00/M
		30	40	1.0	.445	B130LB-FDICT-ND◆	.45	3.60	27.00	B130LB-FDITR-ND◆	3,000	135.00/M
		30	25	0.5	0.55	SK13-FDICT-ND◆	.68	5.44	40.80	SK13-FDITR-ND◆	3,000	204.00/M
		40	30	0.5	0.50	B140B-FDICT-ND◆	.68	5.40	40.50	B140B-FDITR-ND◆	3,000	203.00/M
		40	45	0.1	0.53	B140HB-FDICT-ND◆	.73	5.80	43.50	B140HB-FDITR-ND◆	3,000	218.00/M
		40	25	0.5	0.55	SK14-FDICT-ND◆	.68	5.40	40.50	SK14-FDITR-ND◆	3,000	214.00/M
		50	30	0.5	0.50	B150B-FDICT-ND◆	.79	6.30	47.25	B150B-FDITR-ND◆	3,000	249.00/M
		50	25	0.5	0.70	SK15-FDICT-ND◆	.79	6.30	47.25	SK15-FDITR-ND◆	3,000	249.00/M
		60	30	0.5	0.70	B160B-FDICT-ND◆	.95	7.56	56.70	B160B-FDITR-ND◆	3,000	299.00/M
		60	25	0.5	0.70	SK16-FDICT-ND◆	.99	7.92	59.40	SK16-FDITR-ND◆	3,000	314.00/M
		70	30	0.5	0.79	B170B-FDICT-ND◆	.97	7.74	58.05	B170B-FDITR-ND◆	3,000	306.00/M
		80	30	0.5	0.79	B180BDICT-ND	.88	7.04	52.80	—	—	—
		80	30	0.5	0.79	B180B-FDICT-ND◆	.99	7.92	59.40	B180B-FDITR-ND◆	3,000	314.00/M
		90	30	0.5	0.79	B190BDICT-ND	.90	7.20	54.00	B190BDITR-ND	3,000	299.00/M
		90	30	0.5	0.79	B190B-FDICT-ND◆	1.01	8.10	60.75	B190B-FDITR-ND◆	3,000	321.00/M
		100	30	0.5	0.79	B1100B-FDICT-ND◆	1.04	8.28	62.10	B1100B-FDITR-ND◆	3,000	328.00/M
		100	50	0.5	0.75	B1100LB-FDICT-ND◆	.94	8.13	62.50	B1100LB-FDITR-ND◆	3,000	333.00/M

◆ ***RoHS Compliant*** † Tube

Dimensions in mm

Fig. 7 — DO-201AD

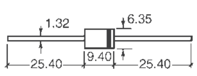

Fig. 8 — R-6

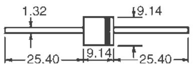

Fig. 9 — *PowerDI™ 123*

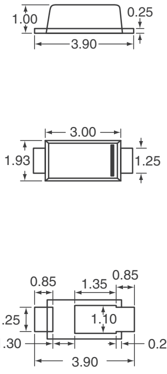

Fig. 10 — *PowerDI™ 5*

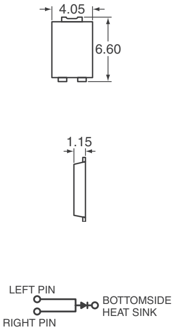

Fig. 11 — DO-201AD

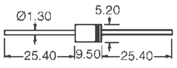

(Continued)

General Purpose and Schottky Diodes

Schottky Barrier Rectifiers *(Cont.)*

Dimensions in mm

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
							1	10	100		Qty.	Pricing
2	2.0	20	50	0.5	0.50	B220-FDICT-ND◆	.95	7.56	56.70	B220-FDITR-ND◆	3,000	299.00/M
		30	50	0.5	0.50	B230DICT-ND	.90	7.20	54.00	—	—	—
		30	50	0.5	0.50	B230-FDICT-ND◆	1.01	8.10	60.75	B230-FDITR-ND◆	3,000	321.00/M
		40	50	0.5	0.50	B240-FDICT-ND◆	.96	7.68	57.60	B240-FDITR-ND◆	3,000	319.00/M
		50	50	0.5	0.70	B250-FDICT-ND◆	.94	8.13	62.50	B250-FDITR-ND◆	3,000	333.00/M
		60	50	0.5	0.70	B260-FDICT-ND◆	1.01	8.78	67.50	B260-FDITR-ND◆	3,000	359.00/M
		70	50	0.5	0.79	B270-FDICT-ND◆	1.05	9.10	70.00	B270-FDITR-ND◆	3,000	372.00/M
		80	50	0.5	0.79	B280-FDICT-ND◆	1.09	9.43	72.50	B280-FDITR-ND◆	3,000	386.00/M
		90	50	0.5	0.79	B290-FDICT-ND◆	1.13	9.75	75.00	B290-FDITR-ND◆	3,000	399.00/M
		100	50	0.5	0.79	B2100-FDICT-ND◆	.83	7.15	55.00	B2100-FDITR-ND◆	3,000	293.00/M
	3.0	20	100	0.5	0.50	B320B-FDICT-ND◆	1.01	8.78	67.50	B320B-FDITR-ND◆	3,000	359.00/M
		30	100	0.5	0.50	B330B-FDICT-ND◆	1.05	9.10	70.00	B330B-FDITR-ND◆	3,000	372.00/M
		40	100	0.5	0.50	B340B-FDICT-ND◆	1.09	9.43	72.50	B340B-FDITR-ND◆	3,000	386.00/M
		40	70	2.0	0.45	B340LB-FDICT-ND◆	1.09	9.43	72.50	B340LB-FDITR-ND◆	3,000	386.00/M
		50	100	0.5	0.70	B350B-FDICT-ND◆	1.35	11.70	90.00	B350B-FDITR-ND◆	3,000	479.00/M
		60	100	0.5	0.50	B360BDICT-ND	1.29	10.14	78.00	—	—	—
		60	100	0.5	0.50	B360B-FDICT-ND◆	1.46	12.68	97.50	B360B-FDITR-ND◆	3,000	519.00/M
4	1.0	20	30	0.5	0.50	B120-FDICT-ND◆	.55	4.40	33.00	B120-FDITR-ND◆	5,000	154.00/M
		30	30	0.5	0.50	B130-FDICT- ND◆	.58	4.60	34.50	B130-FDITR-ND◆	5,000	161.00/M
		30	25	1.0	0.41	B130L-FDICT-ND◆	.68	5.40	40.50	B130L-FDITR-ND◆	5,000	189.00/M
		40	30	0.5	0.50	B140-FDICT-ND◆	.60	4.80	36.00	B140-FDITR-ND◆	5,000	168.00/M
		50	30	0.5	0.70	B150-FDICT-ND◆	.70	5.58	41.85	B150-FDITR-ND◆	5,000	209.00/M
		60	30	0.5	0.70	B160-FDICT-ND◆	.86	6.84	51.30	B160-FDITR-ND◆	5,000	257.00/M
		70	30	0.5	0.79	B170-FDICT-ND◆	.88	7.02	52.65	B170-FDITR-ND◆	5,000	263.00/M
		80	30	0.5	0.79	B180DICT-ND	.80	6.40	48.00	B180DITR-ND	5,000	255.00/M
		80	30	0.5	0.79	B180-FDICT-ND◆	.90	7.20	54.00	B180-FDITR-ND◆	5,000	270.00/M
		90	30	0.5	0.79	B190-FDICT-ND◆	.92	7.38	55.35	B190-FDITR-ND◆	5,000	277.00/M
		100	30	0.5	0.79	B1100-FDICT-ND◆	.84	6.72	50.40	B1100-FDITR-ND◆	5,000	268.00/M
	2.0	20	50	0.5	0.50	B220A-FDICT-ND◆	.86	6.84	51.30	B220A-FDITR-ND◆	5,000	257.00/M
		30	50	0.5	0.50	B230A-FDICT-ND◆	.72	5.76	43.20	B230A-FDITR-ND◆	5,000	216.00/M
		40	50	0.5	0.50	B240A-FDICT-ND◆	.86	6.88	51.60	B240A-FDITR-ND◆	5,000	274.00/M
		50	50	0.5	0.70	B250A-FDICT-ND◆	1.01	8.10	60.75	B250A-FDITR-ND◆	5,000	304.00/M
		60	50	0.5	0.70	B260A-FDICT-ND◆	1.08	8.64	64.80	B260A-FDITR-ND◆	5,000	324.00/M
	3.0	20	100	0.5	0.50	B320A-FDICT-ND◆	.96	7.68	57.60	B320A-FDITR-ND◆	5,000	306.00/M
		30	100	0.5	0.50	B330A-FDICT-ND◆	.94	8.13	62.50	B330A-FDITR-ND◆	5,000	319.00/M
		40	100	0.5	0.50	B340A-FDICT-ND◆	.98	8.45	65.00	B340A-FDITR-ND◆	5,000	332.00/M
		40	70	1.0	0.35	B340LA-FDICT-ND◆	.98	8.45	65.00	B340LA-FDITR-ND◆	5,000	332.00/M
		50	100	0.5	0.70	B350A-FDICT-ND◆	1.20	10.40	80.00	B350A-FDITR-ND◆	5,000	408.00/M
		60	100	0.5	0.7	B360A-FDICT-ND◆	1.31	11.38	87.50	B360A-FDITR-ND◆	5,000	446.00/M
5	3.0	20	100	0.5	0.50	B320-FDICT-ND◆	1.13	9.75	75.00	B320-FDITR-ND◆	3,000	399.00/M
		20	100	0.5	0.50	SK32-FDICT-ND◆	.98	8.45	65.00	SK32-FDITR-ND◆	500	216.00
		30	100	0.5	0.50	B330-FDICT-ND◆	1.16	10.08	77.50	B330-FDITR-ND◆	3,000	412.00/M
		30	100	0.5	0.50	SK33-FDICT-ND◆	.98	8.45	65.00	SK33-FDITR-ND◆	500	216.00
		40	100	0.5	0.50	B340-FDICT-ND◆	1.24	10.73	82.50	B340-FDITR-ND◆	3,000	439.00/M
		40	100	0.5	0.50	SK34-FDICT-ND◆	.98	8.45	65.00	SK34-FDITR-ND◆	500	216.00
		50	100	0.5	0.70	B350-FDICT-ND◆	1.50	13.00	100.00	B350-FDITR-ND◆	3,000	532.00/M
		50	100	0.5	0.75	SK35-FDICT-ND◆	.98	8.45	65.00	SK35-FDITR-ND◆	500	216.00
		60	100	0.5	0.70	B360-FDICT-ND◆	1.46	12.68	97.50	B360-FDITR-ND◆	3,000	519.00/M
		60	100	0.5	0.75	SK36-FDICT-ND◆	.98	8.45	65.00	SK36-FDITR-ND◆	500	216.00
		70	100	0.5	0.79	B370-FDICT-ND◆	1.69	14.63	112.50	B370-FDITR-ND◆	3,000	599.00/M
		80	100	0.5	0.79	B380DICT-ND	1.52	11.96	92.00	—	—	—
		80	100	0.5	0.79	B380-FDICT-ND◆	1.73	14.95	115.00	B380-FDITR-ND◆	3,000	612.00/M
		90	100	0.5	0.79	B390DICT-ND	1.55	12.22	94.00	—	—	—
		90	100	0.5	0.79	B390-FDICT-ND◆	1.76	15.28	117.50	B390-FDITR-ND◆	3,000	625.00/M
		100	100	0.5	0.79	B3100DICT-ND	1.58	12.48	96.00	B3100DITR-ND	3,000	624.00/M
		100	100	0.5	0.79	B3100-FDICT-ND◆	1.80	15.60	120.00	B3100-FDITR-ND◆	3,000	638.00/M
	5.0	20	175	0.5	0.55	B520C-FDICT-ND◆	1.31	11.38	87.50	B520C-FDITR-ND◆	3,000	466.00/M
		30	175	0.5	0.55	B530C-FDICT-ND◆	1.39	12.03	92.50	B530C-FDITR-ND◆	3,000	492.00/M
		40	175	0.5	0.55	B540C-FDICT-ND◆	1.46	12.68	97.50	B540C-FDITR-ND◆	3,000	519.00/M
		50	175	0.5	0.70	B550C-FDICT-ND◆	1.61	13.98	107.50	B550C-FDITR-ND◆	3,000	572.00/M
		60	175	0.5	0.70	B560C-FDICT-ND◆	1.76	15.28	117.50	B560C-FDITR-ND◆	3,000	625.00/M
9	1.0	30	22	1.0	0.42	DFLS130DICT-ND◆	.68	5.40	40.50	DFLS130DITR-ND◆	3,000	214.00/M
		30	33	1.5	0.36	DFLS130LDICT-ND◆	.72	5.76	43.20	DFLS130LDITR-ND◆	3,000	228.00/M
		40	50	2.5	0.36	DFLS140LDICT-ND◆	.72	5.76	43.20	DFLS140LDITR-ND◆	3,000	228.00/M
		60	50	0.1	0.50	DFLS160DICT-ND◆	.72	5.76	43.20	DFLS160DITR-ND◆	3,000	228.00/M
		100	40	0.001	0.86	DFLS1100DICT-ND◆	.81	6.48	48.60	DFLS1100DITR-ND◆	3,000	257.00/M
		150	50	0.002	0.82	DFLS1150DICT-ND◆	.90	7.20	54.00	DFLS1150DITR-ND◆	3,000	285.00/M
		200	40	0.002	0.85	DFLS1200DICT-ND◆	1.18	10.24	78.75	DFLS1200DITR-ND◆	3,000	419.00/M
	1.1	40	40	6.0	0.51	DFLS140DICT-ND◆	.68	5.40	40.50	DFLS140DITR-ND◆	3,000	214.00/M
	2.0	20	22	—	0.36	DFLS220LDICT-ND◆	1.08	8.64	64.80	DFLS220LDITR-ND◆	3,000	342.00/M
		30	22	—	0.42	DFLS230DICT-ND◆	.99	7.92	59.40	DFLS230DITR-ND◆	3,000	314.00/M
		30	33	—	0.42	DFLS230LDICT-ND◆	1.08	8.64	64.80	DFLS230LDITR-ND◆	3,000	342.00/M
		30	75	0.2	0.45	DFLS230LHDICT-ND◆	1.31	11.38	87.50	DFLS230LHDITR-ND◆	3,000	466.00/M
		40	50	—	0.50	DFLS240LDICT-ND◆	1.08	8.64	64.80	DFLS240LDITR-ND◆	3,000	342.00/M
10	3.0	40	90	0.5	0.49	PDS340DICT-ND◆	1.35	11.70	90.00	PDS340DITR-ND◆	5,000	459.00/M
		60	100	0.15	0.62	PDS360DICT-ND◆	1.80	15.00	126.00	PDS360DITR-ND◆	5,000	765.00/M
		100	90	.2	0.75	PDS3100DICT-ND◆	1.73	14.95	115.00	PDS3100DITR-ND◆	5,000	587.00/M
		200	180	0.01	0.78	PDS3200DICT-ND◆	1.80	15.00	126.00	PDS3200DITR-ND◆	5,000	765.00/M
	4.0	150	180	0.01	0.76	PDS4150DICT-ND◆	2.25	18.75	157.50	PDS4150DITR-ND◆	5,000	956.00/M
	5.0	40	120	0.3	0.52	PDS540DICT-ND◆	1.65	14.30	110.00	PDS540DITR-ND◆	5,000	561.00/M
		40	110	0.2	0.50	PDS1040CTLDICT-ND◆	1.80	15.00	126.00	PDS1040CTLDITR-ND◆	5,000	765.00/M
		60	120	0.2	0.67	PDS560DICT-ND◆	1.89	15.75	132.30	PDS560DITR-ND◆	5,000	803.00/M
		100	120	0.2	0.78	PDS5100DICT-ND◆	1.53	12.75	107.10	PDS5100DITR-ND◆	5,000	650.00/M
		100	250	0.01	0.71	PDS5100HDICT-ND◆	1.80	15.00	126.00	PDS5100HDITR-ND◆	5,000	765.00/M
	7.0	60	275	0.2	0.62	PDS760DICT-ND◆	2.04	17.00	142.80	PDS760DITR-ND◆	5,000	867.00/M
	8.0	35	120	1.4	0.51	PDS835LDICT-ND◆	1.73	14.95	115.00	PDS835LDITR-ND◆	5,000	587.00/M
	10.0	40	275	0.7	0.51	PDS1040DICT-ND◆	1.62	13.50	113.40	PDS1040DITR-ND◆	5,000	689.00/M
		40	275	0.6	0.46	PDS1040LDICT-ND◆	1.65	13.75	115.50	PDS1040LDITR-ND◆	5,000	701.00/M
		45	275	0.6	0.51	PDS1045DICT-ND◆	2.07	17.25	144.90	PDS1045DITR-ND◆	5,000	880.00/M
11	3.0	20	80	2.0	0.475	1N5820DICT-ND◆	.68	5.40	40.50	1N5820DITR-ND◆	1,200	216.00/M
		20	150	3.0	0.55	SR302DICT-ND◆	.60	4.80	36.00	SR302DITR-ND◆	1,200	218.00/M
		30	80	2.0	0.500	1N5821DICT-ND◆	.68	5.40	40.50	1N5821DITR-ND◆	1,200	216.00/M
		40	80	2.0	0.525	1N5822DICT-ND◆	.68	5.40	40.50	1N5822DITR-ND◆	1,200	216.00/M
		40	150	3.0	0.55	SR304DICT-ND◆	.60	4.80	36.00	SR304DITR-ND◆	1,200	218.00/M

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Fig. 12 — *PowerDI*™-323

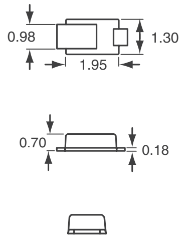

Fig. 13 — D2PAK

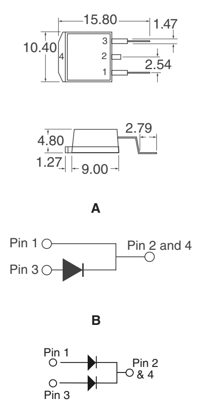

Fig. 14 — POWERMITE®3

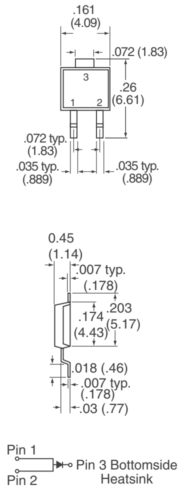

Fig. 15 — SOD-123

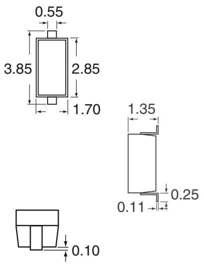

(Continued)

General Purpose and Schottky Diodes

Schottky Barrier Rectifiers *(Cont.)*

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
11	3.0	40	150	3.0	0.55	SR304-FDICT-ND◆	.68	5.40	40.50	SR304-FDITR-ND◆	1,200	233.00/M
		50	150	3.0	0.75	SR305DICT-ND◆	.64	5.12	38.40	SR305DITR-ND◆	1,200	232.00/M
		60	150	3.0	0.75	SR306DICT-ND◆	.68	5.44	40.80	SR306DITR-ND◆	1,200	247.00/M
		100	80	0.5	0.80	SB3100DICT-ND◆	.80	6.40	48.00	SB3100DITR-ND◆	1,200	290.00/M
	5.0	20	250	10.0	0.57	SR502-FDICT-ND◆	.99	7.92	59.40	—	—	—
		30	250	10.0	0.57	SR503DICT-ND◆	.92	7.36	55.20	SR503DITR-ND◆	1,200	334.00/M
		40	250	10.0	0.57	SR504DICT-ND◆	.96	7.68	57.60	SR504DITR-ND◆	1,200	348.00/M
		50	150	1.0	0.67	SR505DICT-ND◆	.65	5.20	39.00	SR505DITR-ND◆	1,200	208.00/M
		60	150	1.0	0.67	SR506DICT-ND◆	.65	5.20	39.00	SR506DITR-ND◆	1,200	208.00/M
		100	150	0.5	0.80	SB5100DICT-ND◆	1.12	8.84	68.00	SB5100DITR-ND◆	1,200	452.00/M
12	1.0	20	33	—	0.42	PD3S120LDICT-ND◆	.72	5.76	43.20	PD3S120LDITR-ND◆	3,000	228.00/M
		30	22	—	0.45	PD3S130HDICT-ND◆	.72	5.76	43.20	PD3S130HDITR-ND◆	3,000	228.00/M
		30	22	—	0.42	PD3S130LDICT-ND◆	.72	5.76	43.20	PD3S130LDITR-ND◆	3,000	228.00/M
		40	22	—	0.55	PD3S140DICT-ND◆	.68	5.40	40.50	PD3S140DITR-ND◆	3,000	214.00/M
		60	22	—	0.64	PD3S160DICT-ND◆	.72	5.76	43.20	PD3S160DITR-ND◆	3,000	228.00/M
13A	10.0	40	125	1.0	0.55	SBG1040CT-FDI-ND◆	1.62	13.50	113.40	—	—	—
13B	10.0	30	125	1.0	0.55	SBG1030CT-T-FDICT-ND◆	1.56	13.00	109.20	SBG1030CT-T-FDITR-ND◆	800	624.00
		35	125	1.0	0.55	SBG1035CT-T-FDICT-ND◆	1.59	13.25	111.30	SBG1035CT-T-FDITR-ND◆	800	636.00
		40	125	1.0	0.55	SBG1040CT-T-FDICT-ND◆	1.62	13.50	113.40	SBG1040CT-T-FDITR-ND◆	800	648.00
		45	125	1.0	0.55	SBG1045CT-T-FDICT-ND◆	1.65	13.75	115.50	SBG1045CT-T-FDITR-ND◆	800	660.00
	15.0	35	150	0.1	0.7	MBRB1535CTDICT-ND◆	1.40	10.92	86.32	MBRB1535CTDITR-ND◆	800	624.00
		40	150	0.1	0.7	MBRB1540CTDICT-ND◆	1.43	11.13	87.98	MBRB1540CTDITR-ND◆	800	636.00
		45	150	0.1	0.7	MBRB1545CTDICT-ND◆	1.62	13.50	113.40	MBRB1545CTDITR-ND◆	800	648.00
	16.0	30	175	1.0	0.55	SBG1630CTDICT-ND◆	1.51	11.76	92.96	SBG1630CTDITR-ND◆	800	604.80
		30	175	1.0	0.55	SBG1630CT-T-FDICT-ND◆	1.68	14.00	117.60	SBG1630CT-T-FDITR-ND◆	800	672.00
		35	175	1.0	0.55	SBG1635CT-T-FDICT-ND◆	1.71	14.25	119.70	SBG1635CT-T-FDITR-ND◆	800	684.00
		40	175	1.0	0.55	SBG1640CT-FDICT-ND◆	1.74	14.50	121.80	SBG1640CT-FDITR-ND◆	800	696.00
		45	175	1.0	0.55	SBG1645CT-T-FDICT-ND◆	1.77	14.75	123.90	SBG1645CT-T-FDITR-ND◆	800	708.00
	20.0	30	225	1.0	0.55	SBG2030CT-T-FDICT-ND◆	1.83	15.25	128.10	SBG2030CT-T-FDITR-ND◆	800	732.00
		35	225	1.0	0.55	SBG2035CT-T-FDICT-ND◆	1.86	15.50	130.20	SBG2035CT-T-FDITR-ND◆	800	744.00
		40	225	1.0	0.55	SBG2040CT-FDICT-ND◆	1.89	15.75	132.30	SBG2040CT-FDITR-ND◆	800	756.00
		45	225	1.0	0.55	SBG2045CT-T-FDICT-ND◆	1.92	16.00	134.40	SBG2045CT-T-FDITR-ND	800	768.00
	30.0	45	250	1.0	0.55	SBG3045CT-T-FDICT-ND◆	2.76	23.00	193.20	SBG3045CT-T-FDITR-ND◆	800	1104.00
		50	250	1.0	0.70	SBG3050CT-T-FDICT-ND◆	2.76	23.00	193.20	SBG3050CT-T-FDITR-ND◆	800	1104.00
		60	250	1.0	0.70	SBG3060CTDICT-ND◆	2.76	23.00	193.20	SBG3060CTDITR-ND◆	800	1104.00
		60	250	1.0	0.70	SBG3060CT-T-FDICT-ND◆	2.76	23.00	193.20	—	—	—
14	3.0	40	50	0.5	0.50	SBM340-FDICT-ND◆	1.35	11.70	90.00	SBM340-FDITR-ND◆	5,000	479.00/M
		60	50	0.2	0.63	MBRM360DICT-ND	1.06	8.32	64.00	MBRM360DITR-ND	5,000	408.00/M
		60	50	0.2	0.63	MBRM360-FDICT-ND◆	1.20	10.40	80.00	MBRM360-FDITR-ND◆	5,000	408.00/M
		100	50	0.1	0.76	MBRM3100-FDICT-ND◆	1.73	14.95	115.00	MBRM3100-FDITR-ND◆	5,000	587.00/M
	5.0	40	100	0.5	0.52	SBM540DICT-ND	1.65	14.30	110.00	SBM540DITR-ND	5,000	561.00/M
		40	100	0.5	0.52	SBM540-FDICT-ND◆	1.65	14.30	110.00	SBM540-FDITR-ND◆	5,000	561.00/M
		60	100	0.2	0.69	MBRM560DICT-ND	1.50	13.00	100.00	MBRM560DITR-ND	5,000	510.00/M
		60	100	0.2	0.69	MBRM560-FDICT-ND◆	1.50	13.00	100.00	MBRM560-FDITR-ND◆	5,000	510.00/M
		100	100	0.2	0.81	MBRM5100DICT-ND	1.32	10.40	80.00	—	—	—
		100	100	0.2	0.81	MBRM5100-FDICT-ND◆	1.50	13.00	100.00	MBRM5100-FDITR-ND◆	5,000	510.00/M
	10.0	40	150	0.3	0.51	SBM1040-FDICT-ND◆	1.62	13.50	113.40	SBM1040-FDITR-ND◆	5,000	689.00/M
15	0.5	20	5.5	—	0.300	B0520LW-FDICT-ND◆	.50	4.00	30.00	B0520LW-FDITR-ND◆	3,000	150.00/M
		30	5.5	—	0.375	B0530W-FDICT-ND◆	.50	4.00	30.00	B0530W-FDITR-ND◆	3,000	150.00/M
		40	5.5	—	0.510	B0540W-FDICT-ND◆	.50	4.00	30.00	B0540W-FDITR-ND◆	3,000	150.00/M
	1.0	30	12	1.0	0.42	B130LAW-FDICT-ND◆	.68	5.40	40.50	B130LAW-FDITR-ND◆	3,000	214.00/M
		40	6.6	0.04	0.55	B140HWDICT-ND◆	.68	5.40	40.50	B140HWDITR-ND◆	3,000	214.00/M
		40	25	1.0	0.320	1N5819HW-FDICT-ND◆	.81	6.48	48.60	1N5819HW-FDITR-ND◆	3,000	257.00/M
16	8.0	45	200	8.0	0.55	SBL845DI-ND◆†	1.46	11.34	89.64	—	—	—
	16.0	45	275	16.0	0.63	SBL1645DI-ND◆†	1.67	13.02	102.92	—	—	—
17	10.0	45	250	10.0	0.60	SBL1045CTDI-ND◆†	1.54	11.97	94.62	—	—	—
	16.0	45	250	0.5	0.55	SBL1645CTDI-ND◆†	1.78	13.86	109.56	—	—	—
	20.0	45	250	20.0	0.60	SBL2045CTDI-ND◆†	1.89	14.70	116.20	—	—	—
	30.0	45	250	1.0	0.55	SBL3045CTDI-ND◆†	2.67	20.79	164.34	—	—	—
18	60.0	45	500	1.0	0.75	MBR6045PTDI-ND◆†	4.00	34.78	259.00	—	—	—

◆ ***RoHS Compliant*** † Tube

Super Barrier Rectifiers

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
9	2.0	30	75	0.46	SBR2M30P1DICT-ND	.50	4.00	30.00	SBR2M30P1DITR-ND	3,000	150.00/M
	2.0	30	75	0.12	SBR2U30P1DICT-ND	.50	4.00	30.00	SBR2U30P1DITR-ND	3,000	150.00/M
	3.0	30	75	0.51	SBR3M30P1DICT-ND	.65	5.20	39.00	SBR3M30P1DITR-ND	3,000	195.00/M
	3.0	30	75	0.20	SBR3U30P1DICT-ND	.65	5.20	39.00	SBR3U30P1DITR-ND	3,000	195.00/M
13B	20	200	180	0.66	SBR20A200CTB-ND†	1.83	15.25	128.10	—	—	—
19	20	45	180	0.60	SBR20A45CTDI-ND†	1.59	13.25	111.30	—	—	—
	20	100	180	0.85	SBR20A100CTDI-ND†	1.65	13.75	115.50	—	—	—
	20	150	180	0.91	SBR20A150CTDI-ND†	1.74	14.50	121.80	—	—	—
	20	200	180	0.96	SBR20A200CTDI-ND†	1.80	15.00	126.00	—	—	—
	30	30	280	0.34	SBR30U30CT-ND†	2.61	21.75	182.70	—	—	—
	40	100	235	0.72	SBR40U100CTDI-ND† ***NEW!***	3.51	30.55	227.50	—	—	—
	40	150	300	0.80	SBR40U150CTDI-ND† ***NEW!***	3.65	31.73	236.25	—	—	—
	40	200	240	0.89	SBR40U200CTDI-ND† ***NEW!***	3.78	32.90	245.00	—	—	—
	40	300	235	0.89	SBR40U300CTDI-ND†	3.92	34.08	253.75	—	—	—
	60	60	280	0.46	SBR60A60CT-ND†	3.27	28.44	211.75	—	—	—
	60	150	250	0.93	SBR60A150CTDI-ND† ***NEW!***	3.75	32.67	243.25	—	—	—
	60	200	250	0.96	SBR60A200CTDI-ND† ***NEW!***	3.92	34.08	253.75	—	—	—
	60	300	235	0.94	SBR60A300CTDI-ND†	4.00	34.78	259.00	—	—	—
20	0.2	20	5	0.42	SBR0220LPDICT-ND	.45	3.60	27.00	SBR0220LPDITR-ND	3,000	135.00/M
	0.2	30	5	0.61	SBR02M30LPDICT-ND	.55	4.40	33.00	SBR02M30LPDITR-ND	3,000	165.00/M
	0.2	100	5	0.80	SBR02U100LPDICT-ND	.53	4.20	31.50	SBR02U100LPDITR-ND	3,000	158.00/M
	0.5	20	5	0.50	SBR05U20LPDICT-ND	.60	4.80	36.00	SBR05U20LPDITR-ND	3,000	180.00/M
	2.0	40	50	0.50	SBR2A40P1DICT-ND	.55	4.25	30.60	SBR2A40P1DITR-ND	3,000	145.00/M
21	0.5	20	6	0.50	SBR05U20LPSDICT-ND ***NEW!***	.60	4.80	36.00	SBR05U20LPSDITR-ND ***NEW!***	3,000	180.00/M
	0.7	20	7	0.55	SBR07U20LPSDICT-ND ***NEW!***	.60	4.80	36.00	SBR07U20LPSDITR-ND ***NEW!***	3,000	180.00/M
22	1.0	40	—	0.49	SBR1U40LPDICT-ND ***NEW!***	.60	4.80	36.00	SBR1U40LPDITR-ND ***NEW!***	3,000	180.00/M

† Tube

Dimensions in mm

Fig. 16 — TO-220

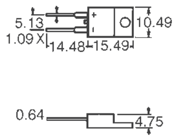

Fig. 17 — TO-220

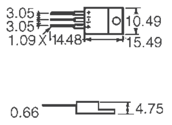

Fig. 18 — TO-3P

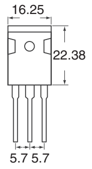

Fig. 19 — TO-220AB

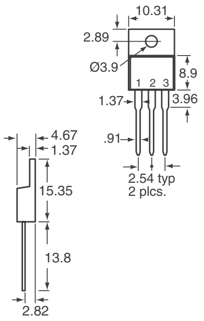

Fig. 20 — DFN1006-2

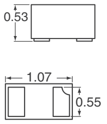

Fig. 21 — *NEW!* DFN1006H4-2

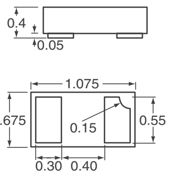

Fig. 22 — *NEW!* DFN1411-3

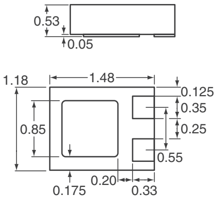

Fast Recovery Rectifiers

Fig. 1 — DO-41

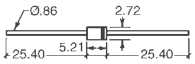

Fig. 2 — MELF (DL-41)

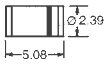

Fig. 3 — DO-201AD

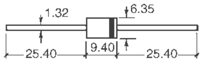

Fig. 4 — R-6

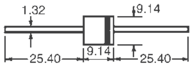

Fig. 5 — TO-220A

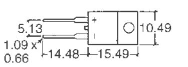

Fig. 6 — TO-220

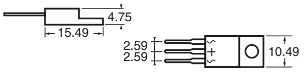

Fig. 7 — SMA

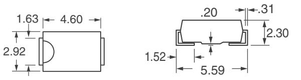

Fig. 8 — SMB

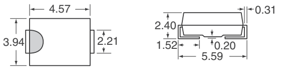

Fig. 9 — SMC

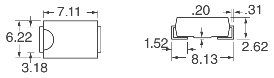

Fig.	Pkg.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (µA)	Max. Forward Voltage Peak (V)	Max. Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
									1	10	100		Qty.	Pricing
1	DO-41	1.0	50	50	5.0	1.2	200	1N4933DICT-ND◆	.39	.23	.15	1N4933DITR-ND◆	5,000	46.00/M
			100	50	5.0	1.2	200	1N4934DICT-ND◆	.39	.23	.15	1N4934DITR-ND◆	5,000	46.00/M
			200	50	5.0	1.2	200	1N4935DICT-ND◆	.39	.23	.15	1N4935DITR-ND◆	5,000	46.00/M
			400	50	5.0	1.2	200	1N4936DICT-ND◆	.39	.23	.15	1N4936DITR-ND◆	5,000	46.00/M
			600	50	5.0	1.2	200	1N4937DICT-ND◆	.39	.23	.15	1N4937DITR-ND◆	5,000	46.00/M
			800	50	5.0	1.3	500	FR106DICT-ND◆	.44	.30	.21	FR106DITR-ND◆	5,000	72.00/M
			1000	50	5.0	1.3	500	FR107DICT-ND	.44	.30	.21	—	—	—
			1000	50	5.0	1.3	500	FR107-T-FDICT-ND◆	.44	.30	.21	FR107-T-FDITR-ND◆	5,000	72.00/M
2	MELF	1.0	50	30	5.0	1.2	200	DL4933DICT-ND	.42	.33	.24	—	—	—
			50	30	5.0	1.2	200	DL4933-FDICT-ND◆	.42	.33	.24	DL4933-FDITR-ND◆	5,000	104.00/M
			100	30	5.0	1.2	200	DL4934-FDICT-ND◆	.42	.33	.24	DL4934-FDITR-ND◆	5,000	104.00/M
			200	30	5.0	1.2	200	DL4935-FDICT-ND◆	.42	.33	.24	DL4935-FDITR-ND◆	5,000	104.00/M
			400	30	5.0	1.2	200	DL4936-FDICT-ND◆	.42	.33	.24	DL4936-FDITR-ND◆	5,000	104.00/M
			600	30	5.0	1.2	200	DL4937-FDICT-ND◆	.42	.33	.24	DL4937-FDITR-ND◆	5,000	104.00/M
3	DO-201AD	3.0	50	200	10.0	1.3	150	FR301DICT-ND◆	.41	.32	.23	FR301DITR-ND◆	1,200	113.00/M
			100	200	10.0	1.3	150	FR302DICT-ND◆	.42	.32	.24	FR302DITR-ND◆	1,200	115.00/M
			200	200	10.0	1.3	150	FR303DICT-ND◆	.44	.34	.25	FR303DITR-ND◆	1,200	121.00/M
			400	200	10.0	1.3	150	FR304DICT-ND◆	.44	.34	.25	FR304DITR-ND◆	1,200	121.00/M
			600	200	10.0	1.3	250	FR305DICT-ND◆	.48	.37	.27	FR305DITR-ND◆	1,200	133.00/M
			800	200	10.0	1.3	500	FR306DICT-ND◆	.48	.37	.27	FR306DITR-ND◆	1,200	133.00/M
			1000	200	10.0	1.3	500	FR307DICT-ND◆	.57	.44	.32	FR307DITR-ND◆	1,200	158.00/M
4	R-6	6.0	50	300	10.0	1.3	150	FR601DICT-ND◆	.64	.52	.39	FR601DITR-ND◆	500	132.00
			100	300	10.0	1.3	150	FR602DICT-ND◆	.68	.55	.41	FR602DITR-ND◆	500	140.50
			200	300	10.0	1.3	150	FR603DICT-ND◆	.72	.58	.44	FR603DITR-ND◆	500	148.50
			400	300	10.0	1.3	150	FR604DICT-ND◆	.76	.61	.46	FR604DITR-ND◆	500	157.00
			600	300	10.0	1.3	250	FR605DICT-ND◆	.84	.68	.51	FR605DITR-ND◆	500	173.50
			800	300	10.0	1.3	500	FR606DICT-ND◆	.92	.74	.56	FR606DITR-ND◆	500	190.00
5	TO-220A	8.0	50	300	10.0	1.3	150	FR801-ND◆	1.19	.94	.72	—	—	—
			100	300	10.0	1.3	150	FR802-ND◆	1.25	.99	.76	—	—	—
			200	300	10.0	1.3	150	FR803-ND◆	1.32	1.04	.80	—	—	—
			400	300	10.0	1.3	150	FR804-ND◆	1.45	1.15	.88	—	—	—
			600	300	10.0	1.3	250	FR805-ND◆	1.55	1.23	.94	—	—	—
6	TO-220	16	150	125	10.0	.975	35	SF163DI-ND◆	2.08	1.62	1.28	—	—	—
			200	125	10.0	.975	35	SF164DI-ND ◆	2.13	1.66	1.32	—	—	—
7	SMA	1.0	50	30	5.0	1.3	150	RS1A-FDICT-ND◆	.52	.40	.29	RS1A-FDITR-ND◆	5,000	128.00/M
			100	30	5.0	1.3	150	RS1B-FDICT-ND◆	.55	.43	.31	RS1B-FDITR-ND◆	5,000	136.00/M
			200	30	5.0	1.3	150	RS1D-FDICT-ND◆	.45	.36	.27	RS1D-FDITR-ND◆	5,000	126.00/M
			400	30	5.0	1.3	150	RS1G-FDICT-ND◆	.48	.38	.29	RS1G-FDITR-ND◆	5,000	133.00/M
			600	30	5.0	1.3	250	RS1J-FDICT-ND◆	.50	.40	.30	RS1J-FDITR-ND◆	5,000	140.00/M
			800	30	5.0	1.3	500	RS1K-FDICT-ND◆	.53	.42	.32	RS1K-FDITR-ND◆	5,000	147.00/M
			1000	30	5.0	1.3	500	RS1M-FDICT-ND◆	.55	.44	.33	RS1M-FDITR-ND◆	5,000	154.00/M
		1.5	50	50	5.0	1.3	150	RS2AADICT-ND	.50	.40	.30	—	—	—
			50	50	5.0	1.3	150	RS2AA-FDICT-ND◆	.50	.40	.30	RS2AA-FDITR-ND◆	5,000	140.00/M
			100	50	5.0	1.3	150	RS2BA-FDICT-ND◆	.53	.42	.32	RS2BA-FDITR-ND◆	5,000	147.00/M
			200	50	5.0	1.3	150	RS2DA-FDICT-ND◆	.55	.44	.33	RS2DA-FDITR-ND◆	5,000	154.00/M
			400	50	5.0	1.3	150	RS2GA-FDICT-ND◆	.58	.46	.35	RS2GA-FDITR-ND◆	5,000	161.00/M
			600	50	5.0	1.3	250	RS2JA-FDICT-ND◆	.60	.48	.36	RS2JA-FDITR-ND◆	5,000	168.00/M
			800	50	5.0	1.3	500	RS2KA-FDICT-ND◆	.65	.52	.39	RS2KA-FDITR-ND◆	5,000	182.00/M
			1000	50	5.0	1.3	500	RS2MA-FDICT-ND◆	.70	.56	.42	RS2MA-FDITR-ND◆	5,000	196.00/M
8	SMB	1.0	50	30	5.0	1.0	150	FR1A-FDICT-ND◆	.53	.41	.30	FR1A-FDITR-ND◆	3,000	138.00/M
			50	30	5.0	1.3	150	RS1AB-FDICT-ND◆	.52	.40	.29	RS1AB-FDITR-ND◆	3,000	136.00/M
			100	30	5.0	1.0	150	FR1B-FDICT-ND◆	.45	.36	.27	FR1B-FDITR-ND◆	3,000	135.00/M
			100	30	5.0	1.3	150	RS1BB-FDICT-ND◆	.55	.43	.31	RS1BB-FDITR-ND◆	3,000	145.00/M
			200	30	5.0	1.0	150	FR1D-FDICT-ND◆	.48	.38	.29	FR1D-FDITR-ND◆	3,000	143.00/M
			200	30	5.0	1.3	150	RS1DBDICT-ND	.45	.36	.27	RS1DBDITR-ND	3,000	135.00/M
			200	30	5.0	1.3	150	RS1DB-FDICT-ND◆	.45	.36	.27	RS1DB-FDITR-ND◆	3,000	135.00/M
			400	30	5.0	1.0	150	FR1G-FDICT-ND◆	.50	.40	.30	FR1G-FDITR-ND◆	3,000	150.00/M
			400	30	5.0	1.3	150	RS1GB-FDICT-ND◆	.48	.38	.29	RS1GB-FDITR-ND◆	3,000	133.00/M
			600	30	5.0	1.0	250	FR1J-FDICT-ND◆	.52	.42	.32	FR1J-FDITR-ND◆	3,000	156.00/M
			600	30	5.0	1.3	250	RS1JB-FDICT-ND◆	.50	.40	.30	RS1JB-FDITR-ND◆	3,000	150.00/M
			800	30	5.0	1.3	500	RS1KB-FDICT-ND◆	.53	.42	.32	RS1KB-FDITR-ND◆	3,000	158.00/M
			1000	30	5.0	1.3	500	RS1MB-FDICT-ND◆	.55	.44	.33	RS1MB-FDITR-ND◆	3,000	165.00/M
		1.5	50	50	5.0	1.3	150	RS2A-FDICT-ND◆	.50	.40	.30	RS2A-FDITR-ND◆	3,000	150.00/M
			100	50	5.0	1.3	150	RS2B-FDICT-ND◆	.53	.42	.32	RS2B-FDITR-ND◆	3,000	158.00/M
			200	50	5.0	1.3	150	RS2D-FDICT-ND◆	.55	.44	.33	RS2D-FDITR-ND◆	3,000	165.00/M
			400	50	5.0	1.3	150	RS2G-FDICT-ND◆	.58	.46	.35	RS2G-FDITR-ND◆	3,000	173.00/M
			600	50	5.0	1.3	250	RS2J-FDICT-ND◆	.60	.48	.36	RS2J-FDITR-ND◆	3,000	180.00/M
			800	50	5.0	1.3	500	RS2K-FDICT-ND◆	.65	.52	.39	RS2K-FDITR-ND◆	3,000	195.00/M
			1000	50	5.0	1.3	500	RS2M-FDICT-ND◆	.70	.56	.42	RS2M-FDITR-ND◆	3,000	210.00/M
		3.0	50	100	5.0	1.3	150	RS3AB-FDICT-ND◆	.95	.76	.57	RS3AB-FDITR-ND◆	3,000	299.00/M
			100	100	5.0	1.3	150	RS3BB-FDICT-ND◆	.99	.80	.60	RS3BB-FDITR-ND◆	3,000	314.00/M
			200	100	5.0	1.3	150	RS3DB-FDICT-ND◆	1.04	.83	.63	RS3DB-FDITR-ND◆	3,000	328.00/M
			400	100	5.0	1.3	150	RS3GB-FDICT-ND◆	1.08	.87	.65	RS3GB-FDITR-ND◆	3,000	342.00/M
			600	100	5.0	1.3	250	RS3JB-FDICT-ND◆	1.01	.88	.68	RS3JB-FDITR-ND◆	3,000	359.00/M
			800	100	5.0	1.3	500	RS3KB-FDICT-ND◆	1.09	.95	.73	RS3KB-FDITR-ND◆	3,000	386.00/M
			1000	100	5.0	1.3	500	RS3MB-FDICT-ND◆	1.13	.98	.75	RS3MB-FDITR-ND◆	3,000	399.00/M
9	SMC	3.0	50	100	5.0	1.3	150	RS3A-FDICT-ND◆	.95	.76	.57	RS3A-FDITR-ND◆	3,000	299.00/M
			100	100	5.0	1.3	150	RS3BDICT-ND	.88	.71	.53	—	—	—
			100	100	5.0	1.3	150	RS3B-FDICT-ND◆	.99	.80	.60	RS3B-FDITR-ND◆	3,000	314.00/M
			200	100	5.0	1.3	150	RS3D-FDICT-ND◆	1.04	.83	.63	RS3D-FDITR-ND◆	3,000	328.00/M
			400	100	5.0	1.3	150	RS3G-FDICT-ND◆	1.08	.87	.65	RS3G-FDITR-ND◆	3,000	342.00/M
			600	100	5.0	1.3	250	RS3J-FDICT-ND◆	1.01	.88	.68	RS3J-FDITR-ND◆	3,000	359.00/M
			800	100	5.0	1.3	500	RS3K-FDICT-ND◆	1.09	.95	.73	RS3K-FDITR-ND◆	3,000	386.00/M
			1000	100	5.0	1.3	500	RS3M-FDICT-ND◆	1.13	.98	.75	RS3M-FDITR-ND◆	3,000	399.00/M

◆ *RoHS Compliant*

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fast Schottky Barrier Diodes

Fig.	Peak Rev. Voltage V_{RRM}(V)	Leakage Current	Forward Voltage @ IF V_F(V)	I_F(mA)	Reverse Recovery Time(nS)	Power Dissipation P_{tot}(mW)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
1	20	5µA	0.37	20	10	400	SD103C-FDICT-ND◆	.48	3.80	28.50	—	—	—
	30	5µA	0.37	20	10	400	SD103B-FDICT-ND◆	.48	3.80	28.50	SD103B-FDITR-ND◆	10,000	126.00/M
	40	200nA	0.39	1	1	400	SD101CDICT-ND◆	.52	4.00	28.80	SD101CDITR-ND◆	10,000	120.00/M
	50	200nA	0.40	1	1	400	SD101BDICT-ND	.52	4.00	28.80	SD101BDITB-ND‡	10,000	120.00/M
	60	200nA	0.41	1	1	400	SD101ADICT-ND◆	.52	4.00	28.80	—	—	—
	60	200nA	0.41	1	1	400	SD101ATDICT-ND◆	.52	4.00	28.80	SD101ATDITR-ND◆	10,000	120.00/M
2	20	5µA	0.37	20	10	400	LLSD103CDICT-ND◆	.55	4.40	33.00	LLSD103CDITR-ND◆	2,500	165.00/M
	30	5µA	0.37	20	10	400	LLSD103BDICT-ND◆	.55	4.40	33.00	LLSD103BDITR-ND◆	2,500	165.00/M
	40	5µA	0.37	20	10	400	LLSD103ADICT-ND◆	.55	4.40	33.00	LLSD103ADITR-ND◆	2,500	165.00/M
	40	200nA	0.39	1	1	400	LLSD101CDICT-ND◆	.45	3.60	27.00	LLSD101CDITR-ND◆	2,500	135.00/M
	50	200nA	0.40	1	1	400	LLSD101BDICT-ND◆	.45	3.60	27.00	LLSD101BDITR-ND◆	2,500	135.00/M
	60	200nA	0.41	1	1	400	LLSD101ADICT-ND◆	.45	3.60	27.00	LLSD101ADITR-ND◆	10,000	120.00/M
3	20	100µA	0.31	100	—	200	B0520WS-FDICT-ND◆	.60	4.80	36.00	B0520WS-FDITR-ND◆	3,000	180.00/M
	20	5.0µA	0.37	20	10	200	SD103CWS-FDICT-ND◆	.68	5.40	40.50	SD103CWS-FDITR-ND◆	3,000	214.00/M
	30	80µA	0.36	100	—	235	B0530WS-FDICT-ND◆	.54	4.32	32.40	B0530WS-FDITR-ND◆	3,000	171.00/M
	30	500nA	1	200	5	200	BAT42WS-FDICT-ND◆	.72	5.76	43.20	BAT42WS-FDITR-ND◆	3,000	228.00/M
	30	500nA	0.33	2	5	200	BAT43WS-FDICT-ND◆	.64	5.12	38.40	BAT43WS-FDITR-ND◆	3,000	213.00/M
	30	2.0µA	0.32	1	5	200	BAT54WS-FDICT-ND◆	.90	7.20	54.00	BAT54WS-FDITR-ND◆	3,000	285.00/M
	30	5.0µA	0.37	20	10	200	SD103BWS-FDICT-ND◆	.68	5.40	40.50	SD103BWS-FDITR-ND◆	3,000	214.00/M
	30	1.0µA	0.55	50	—	250	SD107WS-FDICT-ND◆	.95	7.56	56.70	SD107WS-FDITR-ND◆	3,000	299.00/M
	30	100µA	0.36	100	—	200	SDM100K30LDICT-ND◆	.68	5.40	40.50	SDM100K30LDITR-ND◆	3,000	214.00/M
	30	50µA	0.27	10	—	235	BAT760DICT-ND◆	.72	5.76	43.20	BAT760DITR-ND◆	3,000	228.00/M
	40	3µA	0.30	10	—	235	B0540WSDICT-ND◆	.54	4.32	32.40	B0540WSDITR-ND◆	3,000	171.00/M
	40	200nA	0.39	1	1	200	SD101CWS-FDICT-ND◆	.63	5.00	37.50	SD101CWS-FDITR-ND◆	3,000	188.00/M
	40	5.0µA	0.37	20	10	200	SD103AWS-FDICT-ND◆	.60	4.80	36.00	SD103AWS-FDITR-ND◆	3,000	200.00/M
	40	500nA	0.37	1	—	250	SDMK0340LDICT-ND	.60	4.80	36.00	—	—	—
	40	500nA	0.37	1	—	250	SDMK0340L-FDICT-ND◆	.68	5.40	40.50	SDMK0340L-FDITR-ND◆	3,000	214.00/M
	50	200nA	0.40	1	1	200	SD101BWS-FDICT-ND◆	.63	5.00	37.50	SD101BWS-FDITR-ND◆	3,000	188.00/M
	60	200nA	0.41	1	1	200	SD101AWS-FDICT-ND◆	.63	5.00	37.50	SD101AWS-FDITR-ND◆	3,000	188.00/M
	70	200nA	0.41	1	1	200	1N5711WS-FDICT-ND◆	.81	6.48	48.60	1N5711WS-FDITR-ND◆	3,000	257.00/M
4	20	5µA	.37	20	10	400	SD103CW-FDICT-ND◆	.53	4.20	31.50	SD103CW-FDITR-ND◆	10,000	140.00/M
	30	500nA	1	200	5	200	BAT42W-FDICT-ND◆	.60	4.80	36.00	BAT42W-FDITR-ND◆	3,000	180.00/M
	30	500nA	1	200	5	200	BAT43W-FDICT-ND◆	.60	4.80	36.00	BAT43W-FDITR-ND◆	3,000	180.00/M
	30	5µA	—	—	10	—	SD103-BWDICT-ND	.53	4.20	31.50	—	—	—
	30	5µA	—	—	10	400	SD103BW-FDICT-ND◆	.55	4.40	33.00	SD103BW-FDITR-ND◆	10,000	140.00/M
	40	200nA	0.90	15	1	400	SD101CW-FDICT-ND◆	.48	3.80	28.50	SD101CW-FDITR-ND◆	3,000	143.00/M
	40	5µA	—	—	10	—	SD103AW-FDICT-ND◆	.53	4.20	31.50	SD103AW-FDITR-ND◆	10,000	140.00/M
	60	200µA	1	15	1	400	1N6263W-FDICT-ND◆	.70	5.60	42.00	1N6263W-FDITR-ND◆	3,000	210.00/M
	60	200nA	1	15	1	400	SD101AW-7FDICT-ND◆	.48	3.80	28.50	SD101AW-7FDITR-ND◆	3,000	143.00/M
	60	200nA	—	—	1	—	SD101AW-FDICT-ND◆	.36	3.09	23.75	SD101AW-FDITR-ND◆	10,000	126.00/M
	70	200nA	.041	1	1	333	1N5711W-FDICT-ND◆	.70	5.60	42.00	1N5711W-FDITR-ND◆	3,000	210.00/M
5	40	—	0.37	1	—	150	SDM03U40DICT-ND◆	.81	6.48	48.60	SDM03U40DITR-ND◆	3,000	257.00/M
	30	—	0.35	20	—	150	SDM20U30DICT-ND◆	.81	6.48	48.60	SDM20U30DITR-ND◆	3,000	257.00/M
	30	2.0µA	1	100	5	250	BAT54LPDICT-ND◆	.60	4.80	36.00	BAT54LPDITR-ND◆	3,000	180.00/M
6	30	150µA	0.575	200	—	250	SDM20U30LPDICT-ND◆	.81	6.48	48.60	SDM20U30LPDITR-ND◆	3,000	257.00/M
	40	200nA	1	40	5	250	BAS40LPDICT-ND◆	.68	5.40	40.50	BAS40LPDITR-ND◆	3,000	214.00/M
	45	1.0µA	0.8	100	—	250	SDM10U45LPDICT-ND◆	.81	6.48	48.60	SDM10U45LPDITR-ND◆	3,000	257.00/M
7	30	2.0µA	0.8	100	5	—	PD3S0230DICT-ND◆	.68	5.40	40.50	PD3S0230DITR-ND◆	3,000	214.00/M
	80	25nA	0.715	250	4	—	PD3SD2580DICT-ND◆	.39	3.00	21.60	PD3SD2580DITR-ND◆	3,000	102.00/M

‡ Tape and Box ◆ *RoHS Compliant*

Fig. 1 — DO-35

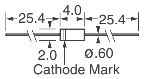

Fig. 2 — MiniMELF

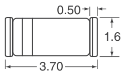

Fig. 3 — SOD-323

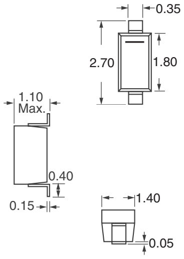

Fig. 4 — SOD-123

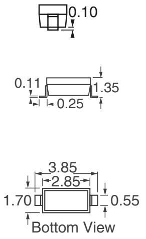

Fig. 5 — SOD-523

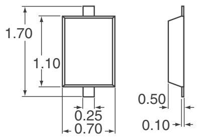

Fig. 6 — DFN1006-2

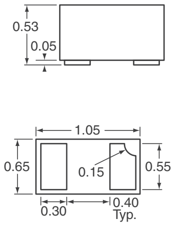

Fig. 7 — PWRDI323

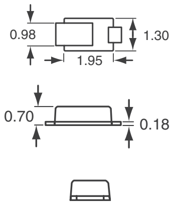

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

High Speed Switching Diodes

Fig. 1 — SOT-23

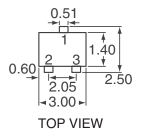

Fig. 2 — SOT-323

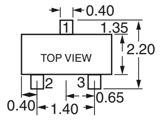

Fig. 3 — SOT-523

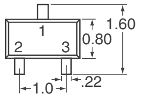

Fig. 4 — SOT-563

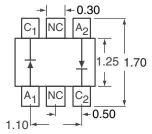

Fig. 5 — SOT-363

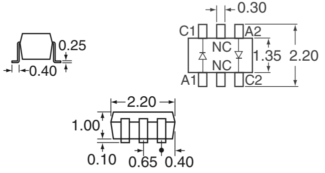

Fig. 6 — DO-35

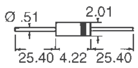

Fig. 7 — MiniMELF

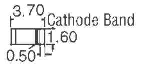

Fig. 8 — SOD-123

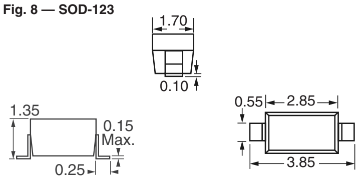

Fig. 9 — SOD-323

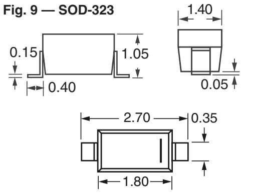

Fig. 10 — SOD-523

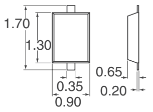

Fig. 11 — DFN1006-2

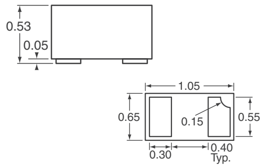

Fig.	Peak Reverse Voltage V_{RWM} (V)	Max. Rev. Current I_R (μA)	Max. Rev. Current V_R (V)	Max. For. Voltage@ V_F (V)	Max. For. Voltage@ I_F (mA)	Max. Rev. Recovery Time T_{rr} (nS)	Power Dissi-pation P_d (mW)	Pinning 1	Pinning 2	Pinning 3	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
1	75	2.5	75	1.0	50	4.0	350	A	—	K	BAL99DICT-ND	3.00	20.80	92.00	BAL99DITR-ND	3,000	80.00/M
	75	2.5	75	1.0	50	4.0	350	A	—	K	BAL99-FDICT-ND◆	3.00	20.80	92.00	BAL99-FDITR-ND◆	3,000	80.00/M
	75	1.0	75	.855	10	4.0	350	K	A	—	BAS16-FDICT-ND◆	2.25	15.60	69.00	BAS16-FDITR-ND◆	3,000	60.00/M
	100	0.1	100	1.0	100	50	250	K	A	—	BAS19-FDICT-ND◆	2.81	19.80	90.00	BAS19-FDITR-ND◆	3,000	81.00/M
	150	0.1	150	1.0	100	50	250	K	A	—	BAS20DICT-ND	2.81	19.80	90.00	—	—	—
	150	0.1	150	1.0	100	50	250	K	A	—	BAS20-FDICT-ND◆	2.81	19.80	90.00	BAS20-FDITR-ND◆	3,000	81.00/M
	200	0.1	250	1.0	100	50	250	K	A	—	BAS21-FDICT-ND◆	2.81	19.80	90.00	BAS21-FDITR-ND◆	3,000	81.00/M
	85	.005	75	1.0	10	3.0§	250	K	A	—	BAS116-FDICT-ND◆	3.00	20.80	92.00	BAS116-FDITR-ND◆	3,000	80.00/M
	200	0.1	250	1.0	100	50	350	A	K	K	BAV23A-FDICT-ND◆	3.13	22.00	100.00	BAV23A-FDITR-ND◆	3,000	90.00/M
	200	0.1	250	1.0	100	50	350	K/K	A	A	BAV23C-FDICT-ND◆	3.13	22.00	100.00	BAV23C-FDITR-ND◆	3,000	90.00/M
	200	0.1	200	1.0	100	50	350	—	A	K	BAV23S-FDICT-ND◆	3.13	22.00	100.00	BAV23S-FDITR-ND◆	3,000	90.00/M
	75	2.5	75	.855	10	4.0	350	K	A	A	BAV70-FDICT-ND◆	2.63	18.20	80.50	BAV70-FDITR-ND◆	3,000	70.00/M
	75	2.5	70	.855	10	6.0	350	K/A	A	K	BAV99-FDICT-ND◆	3.00	20.80	92.00	BAV99-FDITR-ND◆	3,000	80.00/M
	85	.005	75	1.0	10	3.0§	250	K/K	A	A	BAV170-FDICT-ND◆	3.13	22.00	100.00	BAV170-FDITR-ND◆	3,000	90.00/M
	85	.005	75	1.0	10	3.0§	250	K/A	A	K	BAV199-FDICT-ND◆	3.75	26.00	115.00	BAV199-FDITR-ND◆	3,000	100.00/M
	75	2.5	75	.855	10	4.0	350	A	K	K	BAW56-FDICT-ND◆	2.81	19.80	90.00	BAW56-FDITR-ND◆	3,000	81.00/M
	85	.005	75	1.0	10	3.0§	250	A	K	K	BAW156-FDICT-ND◆	3.13	22.00	100.00	BAW156-FDITR-ND◆	3,000	90.00/M
	75	1.0	75	1.0	50	4.0	350	K	A	—	MMBD914-FDICT-ND◆	2.25	15.60	69.00	MMBD914-FDITR-ND◆	3,000	60.00/M
	300	0.1	240	1.0	100	50	350	K/A	A	K	MMBD3004S-FDICT-ND◆	3.13	22.00	100.00	MMBD3004S-FDITR-ND◆	3,000	90.00/M
	75	2.5	75	1.0	50	4.0	350	K	A	—	MMBD4148-FDICT-ND◆	2.25	15.60	69.00	MMBD4148-FDITR-ND◆	3,000	60.00/M
	75	2.5	75	1.0	100	4.0	350	K	A	—	MMBD4448-FDICT-ND◆	2.25	15.60	69.00	MMBD4448-FDITR-ND◆	3,000	60.00/M
	80	1.0	75	1.0	100	4.0	350	K	A	—	MMBD4448HDICT-ND	2.25	15.60	69.00	—	—	—
	80	1.0	75	1.0	100	4.0	350	K	A	—	MMBD4448H-FDICT-ND◆	2.25	15.60	69.00	MMBD4448H-FDITR-ND◆	3,000	60.00/M
	75	3.0	100	1.25	150	4.0	350	K/A	A	K	MMBD7000-FDICT-ND◆	3.00	20.80	92.00	MMBD7000-FDITR-ND◆	3,000	80.00/M
2	75	1.0	75	.855	10	4.0	200	K	A	—	BAS16WDICT-ND	2.70	18.72	82.80	BAS16WDITR-ND	3,000	72.00/M
	75	1.0	75	.855	10	4.0	200	K	A	—	BAS16W-FDICT-ND◆	2.70	18.72	82.80	BAS16W-FDITR-ND◆	3,000	72.00/M
	100	15	120	1.0	100	50	200	K	A	—	BAS19WDICT-ND	3.38	23.76	108.00	—	—	—
	100	15	120	1.0	100	50	200	K	A	—	BAS19W-FDICT-ND◆	3.38	23.76	108.00	BAS19W-FDITR-ND◆	3,000	97.00/M
	150	15	200	1.0	100	50	200	K	A	—	BAS20WDICT-ND	3.38	23.76	108.00	BAS20WDITR-ND	3,000	97.00/M
	150	15	200	1.0	100	50	200	K	A	—	BAS20W-FDICT-ND◆	3.38	23.76	108.00	BAS20W-FDITR-ND◆	3,000	97.00/M
	200	15	250	1.0	100	50	200	K	A	—	BAS21WDICT-ND	3.38	23.76	108.00	—	—	—
	200	15	250	1.0	100	50	200	K	A	—	BAS21W-FDICT-ND◆	3.38	23.76	108.00	BAS21W-FDITR-ND◆	3,000	97.00/M
	75	2.5	75	.855	10	4.0	200	K	A	A	BAV70W-FDICT-ND◆	3.15	21.84	96.60	BAV70W-FDITR-ND◆	3,000	84.00/M
	75	2.5	75	.855	10	4.0	200	K/A	A	K	BAV99W-FDICT-ND◆	3.00	21.12	96.00	BAV99W-FDITR-ND◆	3,000	86.00/M
	85	.005	75	1.0	10	3.0§	200	A	K/A	K	BAV199WDICT-ND◆	2.00	14.40	72.00	BAV199WDITR-ND◆	3,000	68.00/M
	75	2.5	75	.855	10	4.0	200	A	K	K	BAW56WDICT-ND	3.38	23.76	108.00	—	—	—
	75	2.5	75	.855	10	4.0	200	A	K	K	BAW56W-FDICT-ND◆	3.38	23.76	108.00	BAW56W-FDITR-ND◆	3,000	97.00/M
	75	2.5	75	1.0	100	4.0	200	K	A	—	MMBD4148W-FDICT-ND◆	3.30	22.88	101.20	MMBD4148W-FDITR-ND◆	3,000	88.00/M
	80	50	75	1.0	100	4.0	200	K	A	—	MMBD4448HWDICT-ND	3.30	22.88	101.20	MMBD4448HWDITR-ND	3,000	88.00/M
	80	50	75	1.0	100	4.0	200	K	A	—	MMBD4448HW-FDICT-ND◆	3.30	22.88	101.20	MMBD4448HW-FDITR-ND◆	3,000	88.00/M
	75	2.5	75	1.0	100	4.0	200	K	A	—	MMBD4448WDICT-ND	3.30	22.88	101.20	MMBD4448WDITR-ND	3,000	88.00/M
	75	2.5	75	1.0	100	4.0	200	K	A	—	MMBD4448W-FDICT-ND◆	3.30	22.88	101.20	MMBD4448W-FDITR-ND◆	3,000	88.00/M
3	85	2.0	75	1.0	50	4.0	150	K/A	A	A	BAV70T-FDICT-ND◆	2.63	18.20	80.50	BAV70T-FDITR-ND◆	3,000	70.00/M
	85	2.0	75	1.0	50	4.0	150	A/K	A	K	BAV99T-FDICT-ND◆	3.00	20.80	92.00	BAV99T-FDITR-ND◆	3,000	80.00/M
	85	.005	75	1.0	10	3.0§	150	K	A	A	BAV170T-FDICT-ND◆	3.13	22.00	100.00	BAV170T-FDITR-ND◆	3,000	90.00/M
	85	.005	75	1.0	10	3.0§	150	A/K	A	K	BAV199T-FDICT-ND◆	3.13	22.00	100.00	BAV199T-FDITR-ND◆	3,000	90.00/M
	85	2.0	75	1.0	50	4.0	150	A	K	K	BAW56T-FDICT-ND◆	2.81	19.80	90.00	BAW56T-FDITR-ND◆	3,000	81.00/M
	85	.005	75	1.0	10	3.0§	150	A	K	K	BAW156TDICT-ND	3.13	22.00	100.00	—	—	—
	85	.005	75	1.0	10	3.0§	150	A	K	K	BAW156T-FDICT-ND◆	3.13	22.00	100.00	BAW156T-FDITR-ND◆	3,000	90.00/M
	80	0.1	70	1.0	100	4.0	150	A	K	K	MMBD4448HTADICT-ND	2.63	18.20	80.50	—	—	—
	80	0.1	70	1.0	100	4.0	150	A	K	K	MMBD4448HTA-FDICT-ND◆	2.63	18.20	80.50	MMBD4448HTA-FDITR-ND◆	3,000	70.00/M
	200	0.1	—	1.0	100	50	150	K	A	—	BAS21T-FDICT-ND◆	3.13	22.00	100.00	BAS21T-FDITR-ND◆	3,000	90.00/M
	85	85	85	1.0	10	3.0§	150	K	A	—	BAS116TDICT-ND	2.81	19.80	90.00	BAS116TDITR-ND	3,000	81.00/M
	85	85	85	1.0	10	3.0§	150	K	A	—	BAS116T-FDICT-ND◆	2.81	19.80	90.00	BAS116T-FDITR-ND◆	3,000	81.00/M
	80	50	75	1.0	100	4.0	150	K	A	—	MMBD4448HTDICT-ND	2.63	18.20	80.50	MMBD4448HTDITR-ND	3,000	70.00/M
	80	50	75	1.0	100	4.0	150	K	A	—	MMBD4448HT-FDICT-ND◆	2.63	18.20	80.50	MMBD4448HT-FDITR-ND◆	3,000	70.00/M
4	80	50	75	.855	10	4.0	150	—	—	—	MMBD4448VDICT-ND◆	3.00	21.60	108.00	MMBD4448VDITR-ND◆	3,000	102.00/M
	75	50	75	.855	10	4.0	150	—	—	—	BAS16VDICT-ND◆	3.00	21.60	108.00	BAS16VDITR-ND◆	3,000	102.00/M

† Dual Isolated Single § Reverse Recovery Time @ µs ◆ ***RoHS Compliant***

(Continued)

High Speed Switching Diodes *(Cont.)*

Fig.	Peak Reverse Voltage	Max. Reverse Current		Max. Forward Voltage @		Max. Reverse Recovery Time	Power Dissi-pation	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel	
	V_{RWM} (V)	I_R (µA)	V_R (V)	V_F (V)	I_F (mA)	T_{rr} (nS)	P_d (mW)	Part No.	10	100	1,000	Part No.	Qty.	Pricing
5	150	15	—	1.25	200	50	200	BAS20DWDICT-ND◆	4.00	28.80	144.00	BAS20DWDITR-ND◆	3,000	136.00/M
	200	15	—	1.25	200	50	200	BAS21DWDICT-ND◆	4.00	28.80	144.00	BAS21DWDITR-ND◆	3,000	136.00/M
	75	2.5	75	1.0	50	4.0	200	MMBD4448DW-FDICT-ND†◆	3.13	22.00	100.00	MMBD4448DW-FDITR-ND†◆	3,000	90.00/M
6	75	5.0	75	1.0	10	4.0	500	1N4148DICT-ND◆	1.20	6.75	24.38	1N4148DITR-ND◆	10,000	15.00/M
7	75	5.0	75	1.0	10	4.0	500	LL4148DICT-ND◆	2.00	13.00	54.00	LL4148DITR-ND◆	10,000	34.00/M
	75	5.0	75	1.0	100	4.0	500	LL4448DICT-ND◆	2.00	13.00	54.00	LL4448DITR-ND◆	2,500	47.00/M
8	100	2.5	75	.855	10	4.0	400	1N4148W-FDICT-ND◆	3.00	20.80	92.00	1N4148W-FDITR-ND◆	3,000	80.00/M
	75	2.5	75	.855	10	4.0	400	1N4448W-FDICT-ND◆	1.50	10.40	46.00	1N4448W-FDITR-ND◆	3,000	40.00/M
	75	1.0	75	1.0	50	4.0	400	BAV16W-FDICT-ND◆	3.00	20.80	92.00	BAV16W-FDITR-ND◆	3,000	80.00/M
	100	0.1	120	1.0	100	50	250	BAV19W-FDICT-ND◆	3.13	22.00	100.00	BAV19W-FDITR-ND◆	3,000	90.00/M
	150	0.1	150	1.0	100	50	250	BAV20W-FDICT-ND◆	3.13	22.00	100.00	BAV20W-FDITR-ND◆	3,000	90.00/M
	200	0.1	250	1.0	100	50	250	BAV21W-FDICT-ND◆	3.13	22.00	100.00	BAV21W-FDITR-ND◆	3,000	90.00/M
	130	0.005	75	1.0	10	3.0§	250	BAV116W-FDICT-ND◆	2.81	19.80	90.00	BAV116W-FDITR-ND◆	3,000	81.00/M
	300	100	240	1.0	100	50	400	BAV3004WDICT-ND	3.60	27.00	144.00	—	—	—
	300	100	240	1.0	100	50	400	BAV3004W-FDICT-ND◆	3.60	27.00	144.00	BAV3004W-FDITR-ND◆	3,000	135.00/M
9	80	5.0	75	.855	10	4.0	200	1N4448HWS-FDICT-ND◆	3.00	20.80	92.00	1N4448HWS-FDITR-ND◆	3,000	80.00/M
	75	1.0	75	.855	10	4.0	200	1N4148WS-FDICT-ND◆	1.50	10.40	46.00	1N4148WS-FDITR-ND◆	3,000	40.00/M
	75	2.5	75	1.0	100	4.0	200	1N4448WS-FDICT-ND◆	3.00	20.80	92.00	1N4448WS-FDITR-ND◆	3,000	80.00/M
	75	1.0	75	1.0	50	4.0	200	BAV16WS-FDICT-ND◆	3.00	20.80	92.00	BAV16WS-FDITR-ND◆	3,000	80.00/M
	100	0.1	120	1.0	100	50	200	BAV19WS-FDICT-ND◆	3.00	21.60	108.00	BAV19WS-FDITR-ND◆	3,000	102.00/M
	150	0.1	150	1.0	100	50	200	BAV20WS-FDICT-ND◆	3.00	21.60	108.00	BAV20WS-FDITR-ND◆	3,000	102.00/M
	200	0.1	250	1.0	100	50	200	BAV21WS-FDICT-ND◆	3.00	21.60	108.00	BAV21WS-FDITR-ND◆	3,000	102.00/M
10	80	0.1	80	1.0	100	4.0	150	1N4448HWTDICT-ND◆	2.81	19.80	90.00	1N4448HWTDITR-ND◆	3,000	81.00/M
	100	1	80	1.0	50	4.0	150	1N4148WTDICT-ND◆	2.81	19.80	90.00	1N4148WTDITR-ND◆	3,000	81.00/M
11	80	50	75	1.0	100	4.0	250	1N4448HLPDICT-ND◆	4.00	28.80	144.00	1N4448HLPDITR-ND◆	3,000	136.00/M
	75	50	75	1.0	50	4.0	250	BAS16LPDICT-ND◆	4.00	28.80	144.00	BAS16LPDITR-ND◆	3,000	136.00/M

† Dual Isolated Single § Reverse Recovery Time @ µs ◆ ***RoHS Compliant***

Ultra Fast Switching Rectifiers

Operating Temperature: -65°C ~ 150°C

Fig. 1 — DO-41

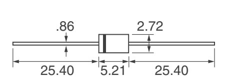

Fig. 2 — D2PAK

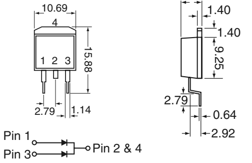

Fig. 3 — SMA

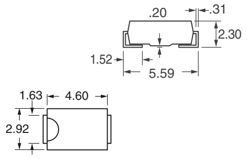

Fig. 4 — SMB

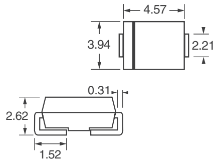

Fig. 5 — SMC

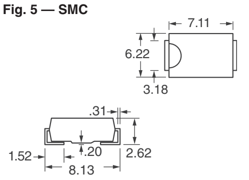

Fig.	Package	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Reverse Current @ 25°C (µA)	Maximum Peak Forward Voltage (V)	Maximum Reverse Recovery Time (nS)	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel	
								Part No.	1	10	100	Part No.	Qty.	Pricing
1	DO-41	1.0	50	30	5.0	1.0	50	UF1001DICT-ND◆	.45	3.08	21.32	UF1001DITR-ND◆	5,000	74.00/M
			100	30	5.0	1.0	50	UF1002DICT-ND◆	.39	2.88	20.24	UF1002DITR-ND◆	5,000	78.00/M
			200	30	5.0	1.0	50	UF1003DICT-ND◆	.43	3.19	22.44	UF1003DITR-ND◆	5,000	87.00/M
			400	30	5.0	1.3	50	UF1004DICT-ND◆	.50	3.69	25.96	UF1004DITR-ND◆	5,000	100.00/M
			600	30	5.0	1.7	75	UF1005DICT-ND◆	.44	3.40	24.48	UF1005DITR-ND◆	5,000	109.00/M
			800	30	5.0	1.7	75	UF1006DICT-ND◆	.52	4.00	28.80	UF1006DITR-ND◆	5,000	128.00/M
			1000	30	5.0	1.7	75	UF1007DICT-ND◆	.48	3.80	28.50	UF1007DITR-ND◆	5,000	133.00/M
2	D2PAK	16	100	100	5.0	0.975	30	MURB1610CTDICT-ND◆	2.40	20.00	168.00	MURB1610CTDITR-ND◆	800	960.00
			200	100	5.0	0.975	30	MURB1620CTDICT-ND◆	2.30	17.85	141.10	MURB1620CTDITR-ND◆	800	1020.00
3	SMA	1.0	50	30	5.0	0.9	25	ES1A-FDICT-ND◆	.68	5.40	40.50	ES1A-FDITR-ND◆	5,000	189.00/M
			100	30	2.0	0.9	25	ES1B-FDICT-ND◆	.70	5.60	42.00	ES1B-FDITR-ND◆	5,000	196.00/M
			150	30	5.0	0.98	20	ES1C-FDICT-ND◆	.73	5.80	43.50	ES1C-FDITR-ND◆	5,000	203.00/M
			200	30	2.0	0.9	25	ES1D-FDICT-ND◆	.68	5.40	40.50	ES1D-FDITR-ND◆	5,000	203.00/M
			400	30	5.0	1.25	35	ES1G-FDICT-ND◆	.81	6.48	48.60	ES1G-FDITR-ND◆	5,000	257.00/M
			50	30	5.0	1.0	50	US1A-FDICT-ND◆	.55	4.40	33.00	US1A-FDITR-ND◆	5,000	154.00/M
			100	30	5.0	1.0	50	US1B-FDICT-ND◆	.60	4.80	36.00	US1B-FDITR-ND◆	5,000	168.00/M
			200	30	5.0	1.0	50	US1D-FDICT-ND◆	.65	5.20	39.00	US1D-FDITR-ND◆	5,000	182.00/M
			400	30	5.0	1.3	50	US1G-FDICT-ND◆	.70	5.60	42.00	US1G-FDITR-ND◆	5,000	196.00/M
			600	30	5.0	1.7	75	US1J-FDICT-ND◆	.59	4.68	35.10	US1J-FDITR-ND◆	5,000	176.00/M
			800	30	5.0	1.7	75	US1K-FDICT-ND◆	.72	5.76	43.20	US1K-FDITR-ND◆	5,000	216.00/M
			1000	30	5.0	1.7	75	US1M-FDICT-ND◆	.77	6.12	45.90	US1M-FDITR-ND◆	5,000	230.00/M
		2.0	50	50	5.0	0.92	25	ES2AA-FDICT-ND◆	.72	5.76	43.20	ES2AA-FDITR-ND◆	5,000	216.00/M
			100	50	5.0	0.92	25	ES2BA-FDICT-ND◆	.77	6.12	45.90	ES2BA-FDITR-ND◆	5,000	230.00/M
			150	50	5.0	0.92	25	ES2CA-FDICT-ND◆	.81	6.48	48.60	ES2CA-FDITR-ND◆	5,000	243.00/M
			200	50	5.0	0.92	25	ES2DA-FDICT-ND◆	.86	6.84	51.30	ES2DA-FDITR-ND◆	5,000	257.00/M
4	SMB	1.0	200	40	2.0	0.875	25	MURS120-FDICT-ND◆	.68	5.40	40.50	MURS120-FDITR-ND◆	3,000	214.00/M
			400	35	5.0	1.25	50	MURS140DICT-ND	.60	4.80	36.00	MURS140DITR-ND	3,000	200.00/M
			400	35	5.0	1.25	50	MURS140-FDICT-ND◆	.68	5.40	40.50	MURS140-FDITR-ND◆	3,000	214.00/M
			600	35	5.0	1.25	50	MURS160-FDICT-ND◆	.72	5.76	43.20	MURS160-FDITR-ND◆	3,000	228.00/M
			50	50	5.0	0.9	25	ES2A-FDICT-ND◆	.72	5.76	43.20	ES2A-FDITR-ND◆	3,000	228.00/M
		2.0	100	50	5.0	0.9	25	ES2B-FDICT-ND◆	.77	6.12	45.90	ES2B-FDITR-ND◆	3,000	242.00/M
			150	50	5.0	0.9	25	ES2C-FDICT-ND◆	.81	6.48	48.60	ES2C-FDITR-ND◆	3,000	257.00/M
			200	50	5.0	0.9	25	ES2D-FDICT-ND◆	.86	6.84	51.30	ES2D-FDITR-ND◆	3,000	271.00/M
			400	50	5.0	1.25	35	ES2G-FDICT-ND◆	.90	7.20	54.00	ES2G-FDITR-ND◆	3,000	285.00/M
		3.0	50	100	10	0.9	25	ES3AB-FDICT-ND◆	1.01	8.78	67.50	ES3AB-FDITR-ND◆	3,000	359.00/M
			100	100	10	0.9	25	ES3BB-FDICT-ND◆	.96	8.29	63.75	ES3BB-FDITR-ND◆	3,000	339.00/M
			150	100	10	0.9	25	ES3CB-FDICT-ND◆	1.01	8.78	67.50	ES3CB-FDITR-ND◆	3,000	359.00/M
			200	100	10	0.9	25	ES3DB-FDICT-ND◆	1.20	10.40	80.00	ES3DB-FDITR-ND◆	3,000	426.00/M
5	SMC	3.0	50	100	10	0.9	25	ES3A-FDICT-ND◆	1.01	8.78	67.50	ES3A-FDITR-ND◆	3,000	359.00/M
			100	100	10	0.9	25	ES3B-FDICT-ND◆	.96	8.29	63.75	ES3B-FDITR-ND◆	3,000	339.00/M
			150	100	10	0.9	25	ES3C-FDICT-ND◆	1.01	8.78	67.50	ES3C-FDITR-ND◆	3,000	359.00/M
			200	100	10	0.9	25	ES3D-FDICT-ND◆	1.20	10.40	80.00	ES3D-FDITR-ND◆	3,000	426.00/M

◆ ***RoHS Compliant***

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Schottky Barrier Double Diodes

(Top View Shown on all drawings)

Fig. 1

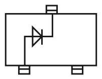

Fig. 2

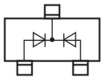

Fig. 3

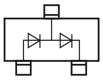

Fig. 4

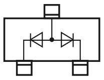

Fig. 5

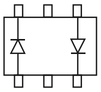

Fig. 6

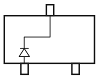

Fig. 7

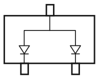

Fig. 8

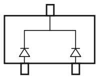

Fig. 9

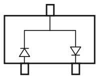

Fig.	Repetitive Peak Reverse Voltage V_{RRM}	Forward Continuous Current I_F	Maximum Forward Voltage@I_F		Leakage Current	Reverse Recovery Time (nS)	Package	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡	
			V_F(V)	I_F(mA)					10	100	1,000	Qty.	Pricing
1	30V	200mA	1.0	100	2.0µA	5.0	SOT-23	BAT54-FDICT-ND◆	4.00	30.00	160.00	3,000	150.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-FDICT-ND◆	5.12	38.40	232.00	3,000	213.00/M
	40V	—	0.55	500	50µA	—	SOT-23	BAT400D-FDICT-ND◆	5.76	43.20	248.00	3,000	228.00/M
	40V	750mA	0.31	100	100µA	—	SOT-23	BAT750-FDICT-ND◆	5.76	43.20	261.00	3,000	239.00/M
	70V	70mA	1.0	15	200uA	5.0	SOT-23	BAS70-FDICT-ND◆	7.20	54.00	310.00	3,000	285.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54WDICT-ND	4.80	36.00	192.00	—	—
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54W-FDICT-ND◆	4.80	36.00	192.00	3,000	180.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40WDICT-ND	6.40	48.00	290.00	—	—
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-FDICT-ND◆	7.20	54.00	310.00	3,000	285.00/M
	70V	100mA	1.0	15	100nA	5.0	SOT-323	BAS70WDICT-ND	7.04	52.80	319.00	—	—
	70V	100mA	1.0	15	100nA	5.0	SOT-323	BAS70W-FDICT-ND◆	7.92	59.40	341.00	3,000	314.00/M
2	30V	200mA	1.0	100	2.0µA	5.0	SOT-23	BAT54C-FDICT-ND◆	4.80	36.00	217.50	3,000	200.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-05-FDICT-ND◆	5.76	43.20	248.00	3,000	228.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54CW-FDICT-ND◆	6.48	48.60	279.00	3,000	257.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-05DICT-ND	6.40	48.00	290.00	—	—
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-05-FDICT-ND◆	7.20	54.00	310.00	—	—
3	30V	200mA	1.0	100	2µA	5.0	SOT-23	BAT54S-FDICT-ND◆	5.40	40.50	232.50	3,000	214.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-04-FDICT-ND◆	5.12	38.40	232.00	3,000	213.00/M
	70V	70mA	1.0	15	200nA	5.0	SOT-23	BAS70-04-FDICT-ND◆	7.20	54.00	310.00	3,000	285.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54SW-FDICT-ND◆	6.48	48.60	279.00	3,000	257.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-04-FDICT-ND◆	7.20	54.00	310.00	3,000	285.00/M
	70V	100mA	1.0	15	100nA	5.0	SOT-323	BAS70W-04-FDICT-ND◆	7.92	59.40	341.00	3,000	314.00/M
4	30V	200mA	1.0	100	2µA	5.0	SOT-23	BAT54A-FDICT-ND◆	3.60	27.00	155.00	—	—
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-06-FDICT-ND◆	5.76	43.20	248.00	3,000	228.00/M
	70V	70mA	1.0	15	200nA	5.0	SOT-23	BAS70-06DICT-ND	6.40	48.00	290.00	3,000	266.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54AWDICT-ND	5.76	43.20	261.00	3,000	239.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54AW-FDICT-ND◆	6.48	48.60	279.00	3,000	257.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-06DICT-ND	6.40	48.00	290.00	—	—
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-06-FDICT-ND◆	7.20	54.00	310.00	3,000	285.00/M
5	30V	200mA	1.0	100	2µA	5.0	SOT-363	BAT54DW-FDICT-ND◆	8.13	62.50	362.50	3,000	333.00/M
6	40V	30mA	0.37	1.0	150nA	—	SOT-323	SDMG0340L-FDICT-ND◆	5.40	40.50	216.00	3,000	203.00/M
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54TDICT-ND	4.00	30.00	160.00	3,000	150.00/M
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54T-FDICT-ND◆	4.00	30.00	160.00	3,000	150.00/M
	40V	30mA	0.37	1.0	1.0µA	—	SOT-523	SDMP0340LTDICT-ND	6.48	48.60	279.00	3,000	257.00/M
	40V	30mA	0.37	1.0	1.0µA	—	SOT-523	SDMP0340LT-FDICT-ND◆	6.48	48.60	279.00	3,000	257.00/M
	40V	200mA	0.38	1.0	200nA	5.0	SOT-523	BAS40T-FDICT-ND◆	5.76	43.20	248.00	3,000	228.00/M
	45V	1000mA	0.45	10	1µA	—	SOT-523	SDM10P45-FDICT-ND◆	6.48	48.60	279.00	3,000	257.00/M
7	40V	200mA	0.37	1.0	1µA	—	SOT-323	SDMG0340LA-FDICT-ND◆	5.40	40.50	216.00	3,000	203.00/M
	70V	70mA	0.41	1.0	100nA	5.0	SOT-323	BAS70W-06-FDICT-ND◆	7.92	59.40	341.00	3,000	314.00/M
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54AT-FDICT-ND◆	5.40	40.50	232.50	3,000	214.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-523	BAS40-06T-FDICT-ND◆	5.76	43.20	248.00	3,000	228.00/M
	40V	200mA	0.37	1	1µA	—	SOT-523	SDMP0340LATDICT-ND	6.48	48.60	279.00	—	—
	40V	200mA	0.37	1	1µA	—	SOT-523	SDMP0340LAT-FDICT-ND◆	6.48	48.60	279.00	3,000	257.00/M
8	40V	200mA	0.37	1.0	1µA	—	SOT-323	SDMG0340LC-FDICT-ND◆	5.40	40.50	216.00	3,000	203.00/M
	70V	70mA	0.41	1.0	100nA	5.0	SOT-323	BAS70W-05-FDICT-ND◆	7.92	59.40	341.00	3,000	314.00/M
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54CT-FDICT-ND◆	4.80	36.00	217.50	3,000	200.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-523	BAS40-05T-FDICT-ND◆	5.76	43.20	248.00	3,000	228.00/M
	40V	30mA	0.37	1	1.0µA	—	SOT-523	SDMP0340LCTDICT-ND	6.48	48.60	279.00	—	—
	40V	30mA	0.37	1	1.0µA	—	SOT-523	SDMP0340LCT-FDICT-ND◆	6.48	48.60	279.00	3,000	257.00/M
9	20V	400mA	0.31	100	100µA	—	SOT-23	SDM40E20LS-FDICT-ND◆	5.76	43.20	248.00	3,000	228.00/M
	40V	200mA	0.37	1.0	1µA	—	SOT-323	SDMG0340LS-FDICT-ND◆	5.40	40.50	216.00	3,000	203.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-523	BAS40-04T-FDICT-ND◆	5.76	43.20	248.00	3,000	228.00/M
	40V	200mA	0.37	1	1µA	—	SOT-523	SDMP0340LSTDICT-ND	5.40	40.50	216.00	—	—
	40V	200mA	0.37	1	1µA	—	SOT-523	SDMP0340LST-FDICT-ND◆	5.40	40.50	216.00	3,000	203.00/M

‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Schottky Barrier Diode Arrays SOT-363/SOT-26 (200mW)

Fig. 1 — SOT-363/SOT-26

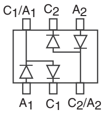

Fig. 2 — SOT-363

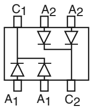

Fig. 3 — SOT-363

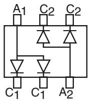

Fig. 4 — SOT-363

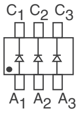

Fig. 5 — SOT-363

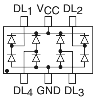

Fig. 6 — SOT-363

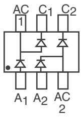

Fig. 7 — SOT-363

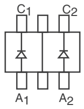

Fig. 8 — SOT-363

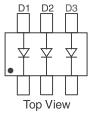

Fig.	Peak Voltage V_{RRM} (V)	Leakage Current	Forward Voltage @I_F		Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 3,000
			V_F(V)	I_F(mA)			1	10	100		
1	40	200nA	0.38	1.0	5.0	BAS40DW-04DICT-ND	.80	6.40	48.00	—	—
	40	200nA	0.38	1.0	5.0	BAS40DW-04-FDICT-ND◆	.90	7.20	54.00	BAS40DW-04-FDITR-ND◆	285.00/M
	40	—	0.37	20	10.0	SD103ASDM-FDICT-ND†◆	.81	6.48	48.60	SD103ASDM-FDITR-ND†◆	257.00/M
	45	1.0µA	0.45	10	—	SDM10M45SDDICT-ND†	1.08	8.64	64.80	SDM10M45SDDITR-ND†	342.00/M
	45	1.0µA	0.45	10	—	SDM10M45SD-FDICT-ND†◆	1.08	8.64	64.80	SDM10M45SD-FDITR-ND†◆	342.00/M

† Power Dissipation: 225mW; SOT-26 Package ◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Schottky Barrier Diode Arrays SOT-363/SOT-26 (200mW) *(Cont.)*

Fig.	Peak Voltage V_{RRM} (V)	Leakage Current	Forward Voltage @I_F V_F(V)	I_F(mA)	Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
1	70	100nA	0.41	1.0	5.0	BAS70DW-04DICT-ND	.83	6.50	50.00	—	—
	70	100nA	0.41	1.0	5.0	BAS70DW-04-FDICT-ND◆	.94	8.13	62.50	BAS70DW-04-FDITR-ND◆	333.00/M
2	30	2.0μA	0.40	10	5.0	BAT54CDWDICT-ND	.96	7.68	57.60	—	—
	30	2.0μA	0.40	10	5.0	BAT54CDW-FDICT-ND◆	.96	7.68	57.60	BAT54CDW-FDITR-ND◆	319.00/M
	40	200nA	0.38	1.0	5.0	BAS40DW-05DICT-ND	.80	6.40	48.00	—	—
	40	200nA	0.38	1.0	5.0	BAS40DW-05-FDICT-ND◆	.90	7.20	54.00	BAS40DW-05-FDITR-ND◆	285.00/M
	70	100nA	1.0	15	5.0	BAS70DW-05-FDICT-ND◆	.94	8.13	62.50	BAS70DW-05-FDITR-ND◆	333.00/M
3	30	2.0μA	0.40	10	5.0	BAT54ADW-FDICT-ND◆	1.08	8.64	64.80	BAT54ADW-FDITR-ND◆	342.00/M
	40	200nA	0.38	1.0	5.0	BAS40DW-06DICT-ND	.80	6.40	48.00	—	—
	40	200nA	0.38	1.0	5.0	BAS40DW-06-FDICT-ND◆	.90	7.20	54.00	BAS40DW-06-FDITR-ND◆	285.00/M
	70	100nA	0.41	1.0	5.0	BAS70DW-06DICT-ND	.83	6.50	50.00	—	—
	70	100nA	0.41	1.0	5.0	BAS70DW-06-FDICT-ND◆	.94	8.13	62.50	BAS70DW-06-FDITR-ND◆	333.00/M
4	30	2.0μA	0.32	1.0	5.0	BAT54TWDICT-ND	.80	6.40	48.00	—	—
	30	2.0μA	0.32	1.0	5.0	BAT54TW-FDICT-ND◆	.90	7.20	54.00	BAT54TW-FDITR-ND◆	285.00/M
	40	200nA	0.38	1.0	5.0	BAS40TWDICT-ND	.81	6.48	48.60	BAS40TWDITR-ND	257.00/M
	40	200nA	0.38	1.0	5.0	BAS40TW-FDICT-ND◆	.81	6.48	48.60	BAS40TW-FDITR-ND◆	257.00/M
	70	100nA	0.41	1.0	5.0	BAS70TWDICT-ND	.88	7.04	52.80	—	—
	70	100nA	0.41	1.0	5.0	BAS70TW-FDICT-ND◆	.88	7.04	52.80	BAS70TW-FDITR-ND◆	293.00/M
5	30	2.0μA	0.45	10	5.0	QSBT40-FDICT-ND◆	1.09	9.43	72.50	QSBT40-FDITR-ND◆	386.00/M
6	30	2.0μA	0.40	10	5.0	BAT54BRW-FDICT-ND◆	.96	7.68	57.60	BAT54BRW-FDITR-ND◆	319.00/M
	40	200nA	0.38	1.0	5.0	BAS40BRW-FDICT-ND◆	1.08	8.64	64.80	BAS40BRW-FDITR-ND◆	342.00/M
	70	100nA	0.41	1.0	5.0	BAS70BRWDICT-ND	1.08	8.64	64.80	—	—
	70	100nA	0.41	1.0	5.0	BAS70BRW-FDICT-ND◆	1.08	8.64	64.80	BAS70BRW-FDITR-ND◆	342.00/M
7	30	2.0μA	0.40	10	5.0	BAT54JW-FDICT-ND◆	.72	5.76	43.20	BAT54JW-FDITR-ND◆	228.00/M
	70	100nA	1.0	15	5.0	BAS70JW-FDICT-ND◆	.99	7.92	59.40	BAS70JW-FDITR-ND◆	314.00/M
8	40	2.0μA	0.37	20	10.0	SD103ATW-FDICT-ND◆	.72	5.76	43.20	SD103ATW-FDITR-ND◆	228.00/M

† Power Dissipation: 225mW; SOT-26 Package ◆ ***RoHS Compliant***

Switching Diode Arrays Surface Mount

Fig. 1 — SOT-363

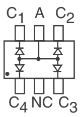

Fig. 2 — SOT-353

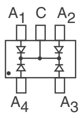

Fig. 3 — SOT-363

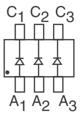

Fig. 4 — SOT-363

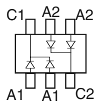

Fig. 5 — SOT-363

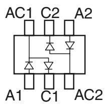

Fig. 6 — SOT-363

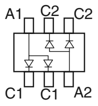

Fig. 7 — SOT-363

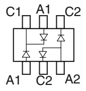

Fig. 8 — SOT-363

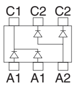

Fig. 9 — SOT-363

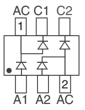

Fig. 10 — SOT-26

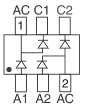

Fig. 11 — SOT-26

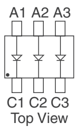

Fig. 12 — SOT-26

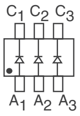

Fig. 13 — SOT-363

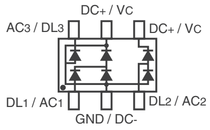

Fig.	Peak Reverse Voltage V_{RRM} (V)	Max. Rev. Current I_R (μA)	V_R (V)	Max. Forward Voltage@ V_F (V)	I_F (mA)	Max. Rev. Recovery Time T_{rr} (nS)	Power Dissi-pation P_d (mW)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
1	80	1.0	75	1.0	100	4.0	200	MMBD4448HAQW-FDICT-ND◆	.68	5.40	40.50	MMBD4448HAQW-FDITR-ND◆	214.00/M
2	80	1.0	75	1.0	100	4.0	200	MMBD4448HCQWDICT-ND	.60	4.80	36.00	—	—
	80	1.0	75	1.0	100	4.0	200	MMBD4448HCQW-FDICT-ND◆	.60	4.80	36.00	MMBD4448HCQW-FDITR-ND◆	180.00/M
3	75	1.0	75	1.0	50	4.0	200	BAS16TW-FDICT-ND◆	.45	3.60	27.00	BAS16TW-FDITR-ND◆	135.00/M
	75	1.0	75	1.0	50	4.0	200	MMBD4148TW-FDICT-ND◆	.49	3.75	27.00	MMBD4148TW-FDITR-ND◆	128.00/M
	80	0.1	70	1.0	100	4.0	200	MMBD4448HTW-FDICT-ND◆	.50	4.00	30.00	MMBD4448HTW-FDITR-ND◆	150.00/M
4	75	2.5	75	1.0	50	4.0	200	BAV70DWDICT-ND	.50	4.00	30.00	—	—
	75	2.5	75	1.0	50	4.0	200	BAV70DW-FDICT-ND◆	.50	4.00	30.00	BAV70DW-FDITR-ND◆	150.00/M
	80	1.0	75	1.0	100	4.0	200	MMBD4448HCDW-FDICT-ND◆	.60	4.80	36.00	MMBD4448HCDW-FDITR-ND◆	180.00/M
5	30	2	25	1.0	100	5.0	200	BAT54SDW-FDICT-ND◆	1.08	8.64	64.80	BAT54SDW-FDITR-ND◆	342.00/M
	75	2.5	75	1.0	50	4.0	200	BAV99DW-FDICT-ND◆	.50	4.00	30.00	BAV99DW-FDITR-ND◆	150.00/M
	80	0.1	70	1.0	100	4.0	200	MMBD4448HSDW-FDICT-ND◆	.60	4.80	36.00	MMBD4448HSDW-FDITR-ND◆	180.00/M
	80	50	75	.72	5.0	4.0	200	SDA004DICT-ND◆	.99	7.92	59.40	SDA004DITR-ND◆	314.00/M
	85	0.005	75	1.0	10	3.0§	200	BAV199DWDICT-ND	.55	4.40	33.00	—	—
	85	0.005	75	1.0	10	3.0§	200	BAV199DW-FDICT-ND◆	.55	4.40	33.00	BAV199DW-FDITR-ND◆	165.00/M
6	75	2.5	75	1.0	50	4.0	200	BAW56DWDICT-ND	.50	4.00	30.00	—	—
	80	1.0	75	1.0	100	4.0	200	MMBD4448HADWDICT-ND	.60	4.80	36.00	MMBD4448HADWDITR-ND	180.00/M
	80	1.0	75	1.0	100	4.0	200	MMBD4448HADW-FDICT-ND◆	.60	4.80	36.00	MMBD4448HADW-FDITR-ND◆	180.00/M
7	75	2.5	75	1.0	50	4.0	200	BAV756DW-FDICT-ND◆	.50	4.00	30.00	BAV756DW-FDITR-ND◆	150.00/M
8	75	2.5	75	1.0	50	4.0	200	BAW567DWDICT-ND	.50	4.00	30.00	—	—
	75	2.5	75	1.0	50	4.0	200	BAW567DW-FDICT-ND◆	.50	4.00	30.00	BAW567DW-FDITR-ND◆	150.00/M
9	75	50	75	1.25	150	4.0	200	BAV99BRW-FDICT-ND◆	.68	5.40	40.50	BAV99BRW-FDITR-ND◆	214.00/M
10	350	0.1	240	1.0	100	50	350	MMBD3004BRM-FDICT-ND◆	.68	5.40	40.50	MMBD3004BRM-FDITR-ND◆	214.00/M
11	80	0.1	70	1.0	100	4.0	225	MMBD4448HTM-FDICT-ND◆	.55	4.40	33.00	MMBD4448HTM-FDITR-ND◆	165.00/M
12	40	1	10	.37	1	—	225	SDM03MT40DICT-ND	.72	5.76	43.20	SDM03MT40DITR-ND	228.00/M
	40	1	10	.37	1	—	225	SDM03MT40-FDICT-ND◆	.79	6.30	47.25	SDM03MT40-FDITR-ND◆	249.00/M
13	85	—	60	.90	1	3.0§	200	DLPA006DICT-ND◆	1.01	8.10	60.75	DLPA006DITR-ND◆	321.00/M
	75	—	53	.715	1	4.0	200	SDA006DICT-ND◆	.90	7.20	54.00	SDA006DITR-ND◆	285.00/M

◆ ***RoHS Compliant*** § Reverse Recovery Time @ μs

Transistors

Fig. 1 – TO-92

- * B E C
- † E C B
- ‡ C B E
- ▲ B C E

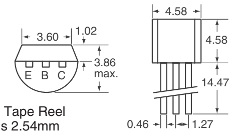

Cut Tape and Tape Reel lead spacing is 2.54mm

Fig. 2 – SOT-23

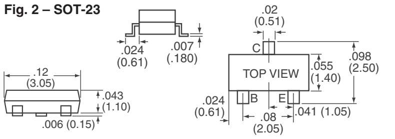

Fig. 3 – SOT-223

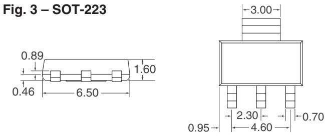

Fig. 4 – TO-264

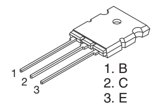

Fig. 5 – TO-220

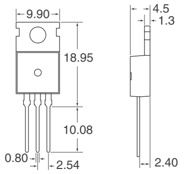

Fig. 6 – TO-220F

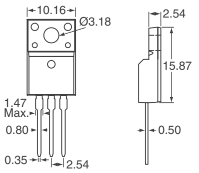

Fig. 7 – D-PAK and D2-PAK

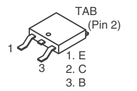

▲ 1. B
2. C
3. E

Fig. 8 – TO-126

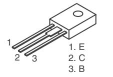

Fig. 9 – SOT-523F

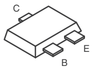

Fig. 10 – TO-3P

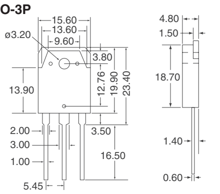

Fig. 11 – TO-3PF

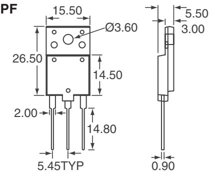

Fig. 12 – 16-SOIC

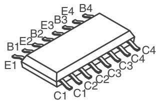

Fig. 13 – SOT-323

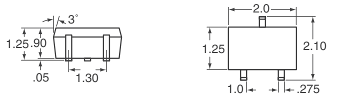

Fig. 14 – SuperSOT™ 3

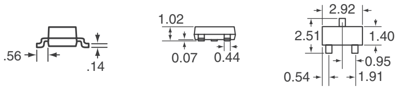

Fig. 15 – MicroFET 2x2

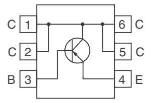

Fig.	Vceo (V)	Ic (mA)	Min. HFE	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
NPN Transistors									
TO-92									
1	15	50	20	2N5770-ND◆	.24	4.46	12.87	—	—
	15	200	20	2N5769-ND	.23	4.25	12.29	—	—
	15	200	20	PN2369-ND	.19	3.60	10.40	—	—
	15	200	18	PN4275-ND◆	.19	3.60	10.40	—	—
	15	200	20	PN2369A-ND◆	.19	3.60	10.40	—	—
	15	300	15	2N5772-ND◆	.22	4.05	11.70	—	—
	20	1,200	20,000	MPSA12-ND	.28	5.22	15.08	—	—
	25	50	60	MPSH10FS-ND◆*	.32	5.91	16.38	—	—
	25	100	400	2N5089BU-ND◆	.11	2.03	5.85	—	—
	25	100	150	MPS2924-ND	.41	8.27	22.68	—	—
	25	200	60	2N4124BU-ND◆	.11	2.14	6.18	—	—
	25	200	150	MPS6515-ND	.23	4.32	12.48	—	—
	25	200	15	PN5135-ND	.32	6.25	17.60	—	—
	25	500	100	2N5172_D26ZCT-ND◆∆▲	.21	3.94	11.38	2,000	47.00/M
	25	500	150	PN3565-ND◆	.21	3.92	11.31	—	—
	30	100	300	2N5088BU-ND◆	.11	2.14	6.18	—	—
	30	200	25	2N4123-ND◆	.11	2.09	6.05	—	—
	30	500	100	2N3704-ND◆†	.21	3.94	11.38	—	—
	30	600	35	PN2222BU-ND	.11	2.14	6.18	—	—
	30	600	80	PN3566-ND	.21	3.87	11.18	—	—
	30	1,200	5,000	MPSA13-ND◆	.28	5.22	15.08	—	—
	30	1,200	10,000	MPSA14-ND◆	.28	5.22	15.08	—	—
	30	500	100	BC184C-ND◆‡	.21	4.01	11.57	—	—
	30	500	100	BC184L-ND◆†	.21	4.01	11.57	—	—
	30	1,200	30,000	BC517-ND◆‡	.25	4.73	13.65	—	—
	30	100	420	BC548C-ND◆‡	.21	4.01	11.57	—	—
	30	100	110	BC549-ND◆‡	.21	4.01	11.57	—	—
	40	200	40	2N3904FS-ND◆	.11	2.03	5.85	—	—
	40	200	30	2N3904D26ZCT-ND◆∆	.11	2.03	5.85	2,000	24.30/M
	40	200	30	2N3904TFCT-ND◆∆‡	.11	2.03	5.85	2,000	24.00/M
	40	500	100	PN3569-ND◆	.21	3.87	11.18	—	—
	40	600	20	2N4400-ND◆	.12	2.23	6.44	—	—
	40	600	20	2N4401-ND◆	.12	2.23	6.44	—	—
	40	600	20	2N4401D26ZCT-ND◆∆	.12	2.23	6.44	2,000	26.73/M
	40	600	20	2N4401D75ZCT-ND◆∆◊	.12	2.23	6.44	2,000	26.73/M
	40	600	20	2N4401TFCT-ND◆∆‡	.12	2.23	6.44	2,000	27.00/M
	40	600	40	PN3567-ND◆	.21	3.87	11.18	—	—
	40	1,000	35	PN2222AFS-ND	.11	2.14	6.18	—	—
	40	1,000	35	PN2222AD26ZCT-ND◆∆	.12	2.23	6.44	2,000	26.73/M
	45	100	400	MPSA18-ND◆	.25	4.66	13.46	—	—
	45	100	80	PN100RMCT-ND◆∆◊	.21	3.92	11.31	2,000	46.98/M
	45	800	60	BC337-ND◆‡	.31	5.83	16.17	—	—
	45	800	100	BC33725-ND◆‡	.31	5.83	16.17	—	—
	45	800	100	BC33725TACT-ND◆‡∆◊	.14	2.54	7.35	2,000	30.51/M
	45	800	170	BC33740TACT-ND◆‡∆◊	.14	2.54	7.35	2,000	30.51/M
	45	100	110	BC547-ND◆‡	.21	4.01	11.57	—	—
	45	100	110	BC547BFS-ND◆‡	.21	4.01	11.57	—	—
	45	100	110	BC547BTACT-ND◆‡∆◊	.11	2.03	5.85	2,000	24.30/M
	45	100	110	BC550-ND◆‡	.21	4.01	11.57	—	—
	50	100	200	2N5210-ND◆	.11	2.03	5.85	—	—
	50	100	40	BC182-ND◆‡	.21	4.01	11.57	—	—
	50	100	40	BC182B-ND◆‡	.21	4.01	11.57	—	—
	60	100	100	2N5961-ND	.23	4.28	12.35	—	—
	60	100	20	PN2484-ND◆	.22	4.12	11.90	—	—
	65	100	110	BC546-ND◆‡	.25	4.73	13.65	—	—
	80	200	60	2N4410-ND◆	.24	4.50	13.00	—	—
	80	500	100	MPSA06-ND◆	.28	5.25	14.56	—	—
	80	500	100	MPSA06_D26ZTR-ND◆	—	—	—	2,000	61.60/M
	80	500	100	MPSA06RACT-ND◆∆‡	.28	5.25	14.56	2,000	62.00/M
	80	1,000	25	BC639-ND◆†	.27	5.06	14.04	—	—
	100	200	60	2N5830-ND	.24	4.46	12.87	—	—
	100	1,500	1,000	2N7052-ND◆	.32	6.25	17.60	—	—
	140	600	20	2N5550BU-ND◆	.12	2.27	6.57	—	—
	200	200	25	MPSA43-ND	.29	5.42	15.03	—	—
	300	500	25	MPSA42FS-ND◆	.29	5.45	15.73	—	—
	300	500	25	MPSA42_D26ZTR-ND	—	—	—	2,000	65.34/M
	400	300	40	KSP44TACT-ND◆∆◊	.23	4.25	12.29	2,000	51.00/M
	400	1,500	5	FJN13003TACT-ND◆†∆◊	.40	8.01	21.96	2,000	109.80/M
	400	1,500	5	FJN3303TACT-ND◆†∆◊	.32	6.25	17.60	2,000	76.00/M

Fig.	Vceo (V)	Ic (mA)	Min. HFE	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
SOT-23									
2	12	50	25	MMBT5179CT-ND◆∆	.18	3.33	9.62	3,000	34.78/M
	15	200	20	MMBT2369ACT-ND◆∆	.14	2.70	7.80	3,000	28.20/M
	25	50	60	MMBTH10FSCT-ND◆∆	.18	3.33	9.62	3,000	34.78/M
	25	100	300	MMBT5089CT-ND◆∆	.16	2.97	8.58	3,000	31.00/M
	25	200	60	KST10MTFCT-ND◆∆	.14	2.59	7.48	3,000	27.03/M
	30	100	300	MMBT5088CT-ND◆∆	.15	2.84	8.19	3,000	29.61/M
	30	100	110	BC848CMTFCT-ND◆∆	.12	2.25	6.50	3,000	23.50/M
	30	1,200	4,000	BCV27CT-ND◆∆	.16	3.06	8.84	3,000	31.96/M
	40	200	30	MMBT3904FSCT-ND◆∆	.09	1.69	4.88	3,000	17.63/M
	40	600	20	MMBT4401FSCT-ND◆∆	.10	1.91	5.53	3,000	19.98/M
	40	800	35	BSR14CT-ND◆∆	.13	2.48	7.15	3,000	25.85/M
	40	1,000	35	MMBT2222AFSCT-ND◆∆	.10	1.85	5.33	3,000	19.27/M
	40	1,200	10,000	MMBT6427FSCT-ND◆∆	.19	3.53	10.21	3,000	36.90/M
	45	100	110	BC847BMTFCT-ND◆∆	.12	2.25	6.50	3,000	23.50/M
	45	100	110	BC847CMTFCT-ND◆∆	.12	2.25	6.50	3,000	23.50/M
	45	800	100	BC81725MTFCT-ND◆∆	.12	2.25	6.50	3,000	23.50/M
	50	500	250	MMBT6428CT-ND◆∆	.15	2.84	8.19	3,000	29.61/M
	50	800	100	BC81740MTFCT-ND◆∆	.12	2.25	6.50	3,000	23.50/M
	65	100	110	BC846BMTFCT-ND◆∆	.12	2.25	6.50	3,000	23.50/M
	80	500	100	MMBTA06FSCT-ND◆∆	.22	4.05	11.70	3,000	42.30/M
	160	600	30	MMBT5551FSCT-ND◆∆	.16	2.99	8.65	3,000	31.26/M
	300	500	25	MMBTA42FSCT-ND∆	.23	4.32	12.48	3,000	45.12/M
	300	500	25	KST42MTFCT-ND◆∆	.16	3.06	8.84	3,000	31.96/M
SOT-223 — RoHS Compliant									
3	40	1,000	35	PZT2222ACT-ND∆	.38	7.38	20.77	2,500	84.96/M
	60	1,500	25	BCP55FSCT-ND∆	.38	7.61	20.88	2,500	98.60/M
	300	500	25	PZTA42CT-ND∆	.36	7.35	20.16	2,500	95.20/M
TO-264 — RoHS Compliant									
4	230	15,000	35	FJL4315OTU-ND	1.78	35.63	106.89	—	—
TO-220 — RoHS Compliant									
5	30	3,000	120	KSC1173YTSTU-ND	.47	9.30	27.90	—	—
	60	2,000	500	TIP110-ND	.56	11.20	33.60	—	—
	60	5,000	1,000	TIP120-ND	.56	11.20	33.60	—	—
	80	10,000	35	KSE44H11TU-ND	.60	11.25	33.75	—	—
	80	6,000	15	TIP41B-ND	.55	11.00	33.00	—	—
	100	1,000	15	TIP29CFS-ND	.55	11.00	33.00	—	—
	100	2,000	500	TIP112TU-ND	.56	11.20	33.60	—	—
	100	3,000	10	TIP31CFS-ND	.50	10.00	30.00	—	—
	100	3,000	10	TIP31CTU-ND	.55	11.00	33.00	—	—
	100	5,000	1,000	TIP122FS-ND	.50	9.30	27.90	—	—
	100	5,000	1,000	TIP122TU-ND	.50	9.30	27.90	—	—
	100	6,000	15	TIP41CTU-ND	.48	9.00	27.00	—	—
	100	8,000	200	TIP102TU-ND	.62	11.63	34.88	—	—
	100	8,000	200	TIP102-ND	.62	11.63	34.88	—	—
	100	1,000	15	TIP29CTU-ND	.50	10.00	30.00	—	—
	100	12,000	100	BDW93CFS-ND	.69	12.98	38.93	—	—
	200	7,000	—	BU406FS-ND	.68	12.75	38.25	—	—
	275	4,000	1,000	FJP9100TU-ND	.80	14.93	44.78	—	—
	300	1,000	10	TIP48-ND	.55	11.00	33.00	—	—
	350	1,000	10	TIP49FS-ND	.55	11.00	33.00	—	—
	400	8,000	5	FJP13007TU-ND	.72	13.50	40.50	—	—
	400	8,000	15	FJP13007H1TU-ND	.67	12.60	37.80	—	—
	400	8,000	26	FJP13007H2TU-ND	.72	13.50	40.50	—	—
	400	12,000	15	FJP13009H2TU-ND	.89	16.73	50.18	—	—
	400	12,000	6	FJP13009TU-ND	.88	16.58	49.73	—	—
	400	4,000	19	FJP3305H1TU-ND	.68	12.83	38.48	—	—
	400	4,000	26	FJP3305H2TU-ND	.68	12.83	38.48	—	—
	400	4,000	8	FJP3305TU-ND	.68	12.83	38.48	—	—
	400	4,000	8	FJP3305-ND	.72	13.50	40.50	—	—
	400	4,000	8	FJP5304DTU-ND	.68	12.83	38.48	—	—
	400	5,000	10	FJP5555TU-ND	.80	15.00	45.00	—	—
	400	5,000	8	KSC5305DFTTU-ND	.76	14.25	42.75	—	—
	400	1,000	10	TIP50-ND	.55	11.00	33.00	—	—
	400	1,500	5	KSE13003TH2ATU-ND	.58	11.60	34.80	—	—
	400	4,000	20	FJP5554TU-ND	.72	13.50	40.50	—	—
	440	5,000	7	FJP5355TU-ND	.56	10.43	31.28	—	—
	450	5,000	4	KSC5338D-ND	.78	14.63	43.88	—	—
	450	5,000	4	KSC5338DTU-ND	.78	14.63	43.88	—	—
	450	2,000	4	KSC5402DTTU-ND	.59	11.10	33.30	—	—

* † ‡ ▲ See drawings above for pin layout. ∆ Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND. ◊ For Tape and Box part number, change CT-ND to TB-ND. ◆ ***RoHS Compliant***

(Continued)

Transistors *(Cont.)*

Fig.	Vceo (V)	Ic (mA)	Min. HFE	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
5	500	5,000	8	FJP5321TU-ND	.66	12.35	37.04	—	—
	800	3,000	6	KSC5603DTU-ND	.96	17.93	53.78	—	—
	800	3,000	20	FJP5027OTU-ND	.70	13.13	39.38	—	—
	800	3,000	15	FJP5027RTU-ND	.70	13.13	39.38	—	—
	800	3,000	8	FJP5027TU-ND	.70	13.05	39.15	—	—
	800	3,000	20	KSC5027OTU-ND	.79	14.85	44.55	—	—
TO-220F — RoHS Compliant									
6	400	8,000	5	FJPF13007TTU-ND	.69	12.86	38.59	—	—
	400	8,000	26	FJPF13007H2TU-ND	.72	13.50	40.50	—	—
	400	8,000	5	FJPF13007TU-ND	.68	12.68	38.03	—	—
	400	12,000	6	FJPF13009H2TU-ND	.92	17.25	51.75	—	—
	400	12,000	6	FJPF13009TU-ND	.88	16.50	49.50	—	—
	400	4,000	8	FJPF3305H1TU-ND	.59	10.97	32.92	—	—
	400	4,000	8	FJPF3305H2TU-ND	.51	9.53	28.58	—	—
	400	4,000	8	FJPF3305TU-ND	.62	11.55	34.65	—	—
	500	5,000	8	FJPF5321TU-ND	.67	12.50	37.49	—	—
	800	3,000	20	FJPF5027OTU-ND	.74	13.88	41.63	—	—
	800	3,000	15	FJPF5027RTU-ND	.67	12.53	37.58	—	—
	900	100	30	KSC5042FTU-ND	.51	9.60	28.80	—	—
D-PAK — RoHS Compliant									
7	60	10,000	5	MJD3055TFCT-NDΔ	.55	11.00	33.00	2,000	154.00/M
	80	8,000	40	MJD44H11TMCT-NDΔ	.56	10.50	31.50	2,500	182.00/M
	100	8,000	1000	KSH122TFCT-NDΔ	.56	11.20	33.60	2,000	156.80/M
	100	2,000	200	MJD112TFCT-NDΔ	.54	10.05	30.15	2,000	178.22/M
	100	8,000	100	MJD122TFCT-NDΔ	.56	11.20	33.60	2,000	156.80/M
	100	3,000	10	MJD31CTFCT-NDΔ	.54	10.80	32.40	2,000	151.20/M
	100	6,000	15	MJD41CTFCT-NDΔ	.55	11.00	33.00	2,000	154.00/M
	100	6,000	15	KSH41CTFCT-NDΔ	.55	11.00	33.00	2,000	154.00/M
	100	3,000	10	KSH31CTFCT-NDΔ	.56	11.17	33.51	2,000	156.38/M
	100	2,000	200	KSH112TMCT-NDΔ	.56	11.20	33.60	2,500	151.20/M
	100	8,000	100	KSH122TMCT-NDΔ	.56	11.20	33.60	2,500	151.20/M
	400	3,000	10	FJD5553TMCT-ND▲Δ ***NEW!***	.59	11.03	33.08	2,500	191.10/M
	400	4,000	10	FJD5304DTFCT-ND▲Δ	.52	10.40	31.20	2,000	145.60/M
	400	5,000	10	FJD5555TMCT-ND▲Δ ***NEW!***	.68	12.75	38.25	2,500	221.00/M
	600	2,000	3	KSC5502DTMCT-NDΔ	.70	13.13	39.38	2,500	227.50/M
D2-PAK — RoHS Compliant									
7	100	8,000	200	FJB102TMCT-ND▲Δ	.94	17.63	52.88	800	263.20
TO-126 — RoHS Compliant									
8	60	5,000	160	KSD1691YSTU-ND	.50	9.90	29.70	—	—
	80	1,500	25	BD13916STU-ND	.42	8.53	23.40	—	—
	300	500	30	MJE340STU-ND	.49	9.84	27.00	—	—
	400	1,500	5	FJE3303TU-ND	.48	9.50	28.50	—	—
	400	1,500	8	FJE3303H1TU-ND	.41	8.32	22.82	—	—
	400	4,000	8	FJE5304DTU-ND	.57	11.40	34.20	—	—
	400	1,500	5	KSE13003H1ASTU-ND	.42	8.40	25.20	—	—
	400	1,500	5	KSE13003H2ASTU-ND	.42	8.40	25.20	—	—
	400	1,500	14	FJE3303H2TU-ND	.45	9.03	27.09	—	—
SOT-523F — RoHS Compliant									
9	40	100	100	FJY3009RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	40	100	100	FJY3010RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	40	100	100	FJY3011RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	40	100	100	FJY3012RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	22	FJY3001RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	30	FJY3002RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	56	FJY3003RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	56	FJY3004RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	30	FJY3005RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	68	FJY3006RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	68	FJY3007RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	56	FJY3008RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	56	FJY3013RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	68	FJY3014RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	33	FJY3015RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
TO-3P									
10	60	10,000	500	TIP140TU-ND◆	1.08	22.50	72.00	—	—
	100	10,000	500	TIP142TU-ND	1.11	23.13	74.00	—	—
	120	8,000	120	FJA3835TU-ND◆	1.16	24.13	77.20	—	—
	140	10,000	50	FJA4310OTU-ND◆	1.17	24.38	78.00	—	—
	230	15,000	35	FJA4313RTU-ND◆	1.36	28.31	90.60	—	—
	230	15,000	35	FJA4313OTU-ND◆	1.26	26.31	84.20	—	—
	400	12,000	6	FJA13009TU-ND◆	1.06	22.06	70.60	—	—
	500	10,000	15	KSC5024RTU-ND◆	1.17	24.38	78.00	—	—
TO-3PF — RoHS Compliant									
11	140	10,000	50	FJAF4310YTU-ND	1.10	23.00	73.60	—	—
16-SOIC — RoHS Compliant									
12	40	200	30	MMPQ3904FSCT-NDΔ	1.05	21.81	69.80	2,500	454.00/M
PNP Transistors									
TO-92									
1	10	500	15	PN5134-ND◆	.19	3.60	10.40	—	—
	12	200	20	PN3640-ND◆	.55	11.00	33.00	—	—
	15	200	20	2N5771-ND	1.35	28.13	90.00	—	—
	20	50	15	PN5142-ND	.42	8.13	22.88	—	—
	25	200	60	2N4126-ND◆	.11	2.14	6.18	—	—
	25	800	20	PN3638A-ND◆	.22	4.10	11.83	—	—
	30	200	30	PN4917-ND	.21	3.87	11.18	—	—
	30	200	25	2N4125-ND◆	.11	2.14	6.18	—	—
	30	500	50	PN5138-ND	.23	4.28	12.35	—	—
	30	1,200	5,000	MPSA63-ND◆	.26	4.79	13.85	—	—
	30	1,000	30,000	BC516-ND◆‡	.25	4.73	13.65	—	—
	30	100	110	BC559-ND◆‡	.28	5.18	14.95	—	—
	40	200	15	2N3905-ND◆	.12	2.27	6.57	—	—
	40	200	30	2N3906FS-ND◆	.11	2.09	6.05	—	—
	40	200	30	2N3906D26ZCT-ND◆Δ	.11	2.09	6.05	2,000	25.11/M
	40	200	30	2N3906TFCT-ND◆Δ‡	.11	2.09	6.05	2,000	25.00/M
	40	200	30	PN4122-ND	.21	3.87	11.18	—	—
	40	500	100	PN4249-ND	.23	4.28	12.35	—	—
	40	500	250	PN4250-ND	.23	4.28	12.35	—	—
	40	600	30	2N4402-ND	.13	2.36	6.83	—	—
	40	600	20	2N4403-ND◆	.13	2.36	6.83	—	—
	40	600	20	2N4403D26ZCT-ND◆Δ	.13	2.39	6.89	2,000	28.62/M
	40	800	30	PN2907-ND◆	.14	2.70	7.80	—	—
	45	800	40	BC327-ND◆‡	.30	5.63	15.60	—	—
	45	100	110	BC557-ND◆‡	.28	5.18	14.95	—	—
	45	100	110	BC560-ND◆‡	.28	5.18	14.95	—	—
	45	100	420	BC560CTACT-ND◆‡Δ◊	.12	2.16	6.24	2,000	25.92/M
1	50	50	30	PN3251-ND	.39	7.88	21.60	—	—
	50	100	250	2N5087-ND◆	.11	2.14	6.18	—	—
	50	300	—	BC212-ND◆	.28	5.18	14.95	—	—
	50	300	40	BC212L-ND◆▲	.22	4.12	11.90	—	—
	60	500	250	PN4250A-ND◆	.23	4.28	12.35	—	—
	60	500	100	MPSA05-ND◆	.28	5.25	14.56	—	—
	60	800	10	PN2907ABUFS-ND◆	.12	2.25	6.50	—	—
	60	800	50	PN2907ATACT-ND◆Δ‡◊	.14	2.70	7.80	2,000	32.00/M
	80	500	100	MPSA56-ND◆	.24	4.59	13.26	—	—
	80	1,000	25	BC640-ND◆†	.33	6.09	16.90	—	—
	120	600	30	2N5400-ND◆	.24	4.46	12.87	—	—
	150	600	30	2N5401-ND◆	.13	2.41	6.96	—	—
	300	500	25	MPSA92FS-ND◆	.29	5.42	15.03	—	—
SOT-23									
2	12	200	20	MMBT3640CT-ND◆Δ	.56	10.50	31.50	3,000	182.00/M
	15	200	35	MMBT5771CT-ND◆Δ	1.35	28.13	90.00	3,000	585.00/M
	20	50	60	MMBTH81CT-ND◆Δ	.17	3.15	9.10	3,000	32.90/M
	25	200	60	MMBT4126FSCT-ND◆Δ	.14	2.70	7.80	3,000	28.20/M
	30	1,200	10,000	MMBTA64FSCT-ND◆Δ	.18	3.38	9.75	3,000	35.25/M
	40	600	20	MMBT4403FSCT-ND◆Δ	.10	1.91	5.53	3,000	19.98/M
	40	200	30	MMBT3906FSCT-ND◆Δ	.09	1.69	4.88	3,000	17.63/M
	40	800	35	MMBT2907CT-ND◆Δ‡	.12	2.25	6.50	3,000	24.00/M
	45	800	100	BC80725MTFCT-ND◆Δ	.13	2.36	6.83	3,000	24.68/M
	45	800	100	BC80740MTFCT-ND◆Δ	.13	2.36	6.83	3,000	24.68/M
	50	100	250	MMBT5087CT-ND◆Δ	.17	3.15	9.10	3,000	32.90/M
	60	800	75	BSR16CT-ND◆Δ	.13	2.48	7.15	3,000	25.85/M
	60	800	50	MMBT2907AFSCT-ND◆Δ	.10	1.91	5.53	3,000	19.98/M
	80	500	100	MMBTA56FSCT-ND◆Δ	.18	3.38	9.75	3,000	35.25/M
	150	600	50	MMBT5401FSCT-ND◆Δ	.14	2.70	7.80	3,000	28.20/M
	300	500	25	KST92MTFCT-ND◆Δ	.18	3.38	9.75	3,000	35.25/M
	300	500	25	MMBTA92FSCT-NDΔ	.25	4.73	13.65	3,000	49.35/M
TO-264 — RoHS Compliant									
4	230	13,000	35	FJL4215OTU-ND	1.98	39.69	119.07	—	—
TO-220 — RoHS Compliant									
5	30	3,000	120	KSA473YTSTU-ND	.48	9.50	28.50	—	—
	60	5,000	1,000	TIP125TU-ND	.58	11.50	34.50	—	—
	60	8,000	200	TIP105TU-ND	.64	12.00	36.00	—	—
	80	5,000	1,000	TIP126-ND	.58	11.50	34.50	—	—
	80	8,000	40	D45H11-ND	.79	16.44	52.60	—	—
	100	8,000	750	BDX54C-ND	.52	9.68	29.03	—	—
	100	3,000	10	TIP32CFS-ND	.58	11.50	34.50	—	—
	100	3,000	10	TIP32CTU-ND	.55	11.00	33.00	—	—
	100	5,000	1,000	TIP127FS-ND	.58	11.50	34.50	—	—
	100	5,000	1,000	TIP127TU-ND	.58	11.50	34.50	—	—
	100	6,000	15	TIP42CTU-ND	.59	11.80	35.40	—	—
	100	8,000	200	TIP107-ND	.58	10.88	32.63	—	—
	100	2,000	500	TIP117TU-ND	.57	11.38	34.14	—	—
	100	1,000	15	TIP30C-ND	.50	10.00	30.00	—	—
	100	6,000	15	TIP42C-ND	.55	11.00	33.00	—	—
	100	8,000	2	TIP107TU-ND	.58	10.88	32.63	—	—
TO-220F — RoHS Compliant									
6	550	2,000	400	FJPF9020TU-ND	.89	18.63	59.60	—	—
D-PAK — RoHS Compliant									
7	80	8,000	40	MJD45H11TFCT-NDΔ	.60	11.33	33.98	2,000	200.83/M
	80	8,000	40	MJD45H11TMCT-NDΔ	.60	11.33	33.98	2,500	196.30/M
	40	1,000	15	KSH30TFCT-NDΔ	.55	11.00	33.00	2,000	154.00/M
	100	2,000	200	KSH117TFCT-NDΔ	.56	11.20	33.60	2,000	156.80/M
	100	8,000	100	KSH127TFCT-NDΔ	.55	11.00	33.00	2,000	154.00/M
	100	3,000	10	KSH32CTFCT-NDΔ	.53	10.66	31.98	2,000	149.24/M
	100	6,000	15	KSH42CTFCT-NDΔ	.55	11.00	33.00	2,000	154.00/M
	100	2,000	200	MJD117TFCT-NDΔ	.56	11.20	33.60	2,000	156.80/M
	100	8,000	100	MJD127TFCT-NDΔ	.49	9.13	27.38	2,000	161.86/M
	100	3,000	10	MJD32CTFCT-NDΔ	.54	10.80	32.40	2,000	151.20/M
TO-126 — RoHS Compliant									
8	80	1,500	25	BD14016STU-ND	.44	8.93	24.48	—	—
	300	500	30	MJE340STU-ND	.49	9.84	27.00	—	—
SOT-523F — RoHS Compliant									
9	40	100	100	FJY4009RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	40	100	100	FJY4010RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	40	100	100	FJY4011RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	40	100	100	FJY4012RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	20	FJY4001RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	30	FJY4002RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	—	FJY4003RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	68	FJY4004RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	30	FJY4005RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	68	FJY4006RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	68	FJY4007RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	68	FJY4008RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	68	FJY4013RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
	50	100	68	FJY4014RCT-NDΔ	.21	3.94	11.38	3,000	41.13/M
TO-3P — RoHS Compliant									
10	100	1,000	500	TIP147TU-ND	.96	20.00	64.00	—	—
	140	10,000	50	FJA4210OTU-ND	1.34	27.88	89.20	—	—
	230	15,000	35	FJA4213RTU-ND	1.33	26.50	79.50	—	—
	230	15,000	35	FJA4213OTU-ND	1.33	26.50	79.50	—	—
TO-3PF — RoHS Compliant									
11	100	10,000	500	TIP147FTU-ND	1.05	21.94	70.20	—	—
	140	10,000	50	FJAF4210YTU-ND	1.28	26.56	85.00	—	—
SOT-323 — RoHS Compliant									
13	50	100	68	FJX4004RTFCT-NDΔ	.19	3.60	10.40	3,000	38.00/M
SuperSOT™ 3									
14	30	1,000 2,000	40	FMMT549FSCT-NDΔ	.33	6.19	17.16	3,000	66.00/M
MicroFET 2x2 — RoHS Compliant									
16	35	2,000	100	FJMA790CT-NDΔ	.80	15.00	45.00	3,000	260.00/M

* † ‡ ▲ See drawings above for pin layout. Δ Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND.
◊ For Tape and Box part number, change CT-ND to TB-ND. ◆ ***RoHS Compliant***

Fig.	Description	Package	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100
N-Channel J-FET Transistors						
1	GP Amp	TO-92	2N5457FS-ND	.31	5.89	16.33
	VHF Amp & Mixer	TO-92	MPF102-ND◆	.27	4.97	13.78
Transistor Arrays — RoHS Compliant						
12	IC, Amp, Multichip, GP, NPN	16-SOIC	MMPQ2222ACT-NDΔ	1.06	22.00	70.40
	IC, Amp, Multichip, GP, NPN	16-SOIC	MMPQ2222ATR-ND†		1144.00/2,500	
	IC, Amp, Multichip, GP, PNP	16-SOIC	MMPQ2907ACT-NDΔ	1.01	21.06	67.40

◆ ***RoHS Compliant*** Δ Cut Tape † Tape and Reel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount and Through-Hole Power MOSFETS

Fig.	Type	V_{DS} (V)	R_{DS} (on) Ω	R_{DS} (on) @ Volt.	I_D (A)	P_D (W)	Config. or Package	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Pricing
SOT-23 — RoHS Compliant													
1	N-Chan.	25	4	4.5	0.22	0.35	Single	FDV301NCT-ND	.29	2.16	15.60	FDV301NTR-ND	169.20/3,000
		25	0.45	4.5	0.68	0.35	Single	FDV303NCT-ND	.38	3.00	21.12	FDV303NTR-ND	259.20/3,000
		30	0.125	4.5	1.6	0.5	Single	NDS355NCT-ND	.49	3.69	27.68	NDS355NTR-ND	479.70/3,000
		30	30	10	0.05	0.35	Single	MMBF4393CT-ND	.38	2.81	19.50	MMBF4393TR-ND	225.00/3,000
		50	3.5	10	0.22	0.36	Single	BSS138CT-ND	.24	1.80	13.00	BSS138TR-ND	141.00/3,000
		60	7.5	10	0.115	0.2	Single	2N7002NCT-ND	.17	1.31	9.43	2N7002NTR-ND	102.23/3,000
		60	2	10	0.28	0.3	Single	NDS7002ACT-ND	.36	2.81	19.80	NDS7002ATR-ND	243.00/3,000
		100	6	10	0.17	0.36	Single	BSS123NCT-ND	.29	2.16	15.60	BSS123NTR-ND	169.20/3,000
	P-Chan.	25	10	4.5	0.12	0.35	Single	FDV302PCT-ND	.33	2.48	17.16	FDV302PTR-ND	198.00/3,000
		25	1.1	4.5	0.46	0.35	Single	FDV304PCT-ND	.40	3.20	24.00	FDV304PTR-ND	324.00/3,000
		50	10	10	0.13	0.3	Single	BSS84CT-ND	.29	2.16	15.60	BSS84TR-ND	169.20/3,000
		60	5	10	0.18	0.36	Single	NDS0605CT-ND	.41	3.19	22.44	NDS0605TR-ND	275.40/3,000
		60	10	10	0.12	0.36	Single	NDS0610CT-ND	.39	2.93	20.28	NDS0610TR-ND	234.00/3,000
SuperSOT™ -3 High Drain Current — RoHS Compliant													
2	N-Chan.	20	0.055	4.5	1.7	0.5	Single	FDN335NCT-ND	.46	3.68	25.20	FDN335NTR-ND	357.00/3,000
		20	0.029	4.5	3	0.5	Single	FDN339ANCT-ND	.56	4.20	31.50	FDN339ANTR-ND	546.00/3,000
		20	0.16	4.5	1.3	0.5	Single	NDS331NCT-ND	.44	3.52	26.40	NDS331NTR-ND	356.40/3,000
		20	0.11	4.5	1.7	0.5	Single	NDS335NCT-ND	.47	3.72	27.90	NDS335NTR-ND	376.65/3,000
		30	0.065	4.5	2.2	0.5	Single	FDN337NCT-ND	.43	3.40	25.50	FDN337NTR-ND	344.25/3,000
		30	0.081	4.5	1.9	0.5	Single	FDN357NCT-ND	.49	3.92	29.40	FDN357NTR-ND	396.90/3,000
		30	0.037	10	2.7	0.5	Single	FDN359ANCT-ND	.59	4.41	33.08	FDN359ANTR-ND	573.30/3,000
		30	0.026	10	2.7	0.5	Single	FDN359BNCT-ND	.64	4.80	36.00	FDN359BNTR-ND	624.00/3,000
		30	0.16	10	1.2	0.5	Single	NDS351ANCT-ND	.46	3.68	25.20	NDS351ANTR-ND	357.00/3,000
		30	0.08	10	1.7	0.5	Single	NDS355ANCT-ND	.47	3.72	27.90	NDS355ANTR-ND	376.65/3,000
		60	0.073	10	1.7	0.5	Single	FDN5630CT-ND	.60	4.76	35.70	FDN5630TR-ND	481.95/3,000
	P-Chan.	12	0.03	4.5	2.6	0.5	Single	FDN306PCT-ND	.49	3.88	29.10	FDN306PTR-ND	392.85/3,000
		20	0.036	4.5	2.4	0.5	Single	FDN304PCT-ND	.57	4.56	34.20	FDN304PTR-ND	461.70/3,000
		20	0.122	4.5	1.3	0.5	Single	FDN336PCT-ND	.49	3.92	29.40	FDN336PTR-ND	396.90/3,000
		20	0.115	4.5	1.6	0.5	Single	FDN338PCT-ND	.42	3.32	24.90	FDN338PTR-ND	336.15/3,000
		20	60	4.5	2	0.5	Single	FDN340PCT-ND	.47	3.72	27.90	FDN340PTR-ND	376.65/3,000
		20	0.3	4.5	1.0	0.5	Single	NDS332PCT-ND	.43	3.44	25.80	NDS332PTR-ND	348.30/3,000
		20	0.22	2.7	1.2	0.5	Single	NDS336PCT-ND	.49	3.94	27.00	NDS336PTR-ND	382.50/3,000
		30	0.0105	10	1.5	0.5	Single	FDN358PCT-ND	.43	3.40	25.50	FDN358PTR-ND	344.25/3,000
		30	0.063	10	2	0.5	Single	FDN360PCT-ND	.55	4.40	33.00	FDN360PTR-ND	445.50/3,000
		30	0.3	10	0.9	0.5	Single	NDS352APCT-ND	.53	4.20	31.50	NDS352APTR-ND	425.25/3,000
		30	0.2	10	1.1	0.5	Single	NDS356APCT-ND	.57	4.52	33.90	NDS356APTR-ND	457.65/3,000
		60	0.148	10	1.25	0.5	Single	FDN5618PCT-ND	.48	3.60	27.00	FDN5618PTR-ND	468.00/3,000
SuperSOT™ -6 (SOT-6) — RoHS Compliant													
3	N-Chan.	20	0.019	4.5	6.2	1.6	Single	FDC637ANCT-ND	.78	5.85	43.88	FDC637ANTR-ND	760.50/3,000
		20	0.02	4.5	7.3	1.8	Dual	FDC6000NZCT-ND	.99	8.25	66.00	FDC6000NZTR-ND	1287.00/3,000
		20	21m	4.5	6.2	1.6	SSOT-6	FDC637BNZCT-ND ***NEW!***	.49	3.94	27.00	FDC637BNZTR-ND ***NEW!***	382.50/3,000
		20	0.06	4.5	2.7	0.96	Dual	FDC6305NCT-ND	.51	4.08	30.60	FDC6305NTR-ND	413.10/3,000
		20	70m	4.5	3	0.7	Dual	FDC6401NCT-ND	.50	4.00	30.00	FDC6401NTR-ND	405.00/3,000
		30	0.009	10	12.5	2	Single	FDC796NCT-ND	1.05	8.75	70.00	FDC796NTR-ND	1365.00/3,000
		30	0.02	10	6.1	1.6	Single	FDC855NCT-ND ***NEW!***	.62	4.65	34.88	FDC855NTR-ND ***NEW!***	604.50/3,000
		30	0.027	10	5	1.6	Single	FDC653NCT-ND	.55	4.11	30.83	FDC653NTR-ND	534.30/3,000
		30	0.033	4.5	5.2	1.6	Single	FDC633NCT-ND	.50	3.78	28.35	FDC633NTR-ND	491.40/3,000
		30	0.06	10	3.2	1.6	Single	NDC651NCT-ND	.65	4.89	36.68	NDC651NTR-ND	635.70/3,000
		30	0.082	10	2.5	0.96	Dual	FDC6561ANCT-ND	.50	3.75	28.13	FDC6561ANTR-ND	487.50/3,000
		50	2	10	0.35	0.5	Dual	NDC7002NCT-ND	.56	4.48	33.60	NDC7002NTR-ND	453.60/3,000
		60	0.042	10	4.3	1.6	Single	FDC5612CT-ND	.90	6.75	50.63	FDC5612TR-ND	877.50/3,000
		100	0.07	10	3.7	2	Single	FDC3616NCT-ND	.90	7.50	60.00	FDC3616NTR-ND	1170.00/3,000
	P-Chan.	12	26m	4.5	6	0.8	Single	FDC606PCT-ND	.90	6.78	50.85	FDC606PTR-ND	882.00/3,000
		20	0.02	4.5	8	2	Single	FDC697PCT-ND	1.33	10.60	79.50	FDC697PTR-ND	2035.20/3,000
		20	0.022	4.5	7	2	Single	FDC699PCT-ND	1.14	9.50	76.00	FDC699PTR-ND	1482.00/3,000
		20	0.024	4.5	5.5	1.6	Dual	FDC604PCT-ND	.49	3.69	27.68	FDC604PTR-ND	479.70/3,000
		20	0.026	4.5	5.8	1.6	Single	FDC608PZCT-ND	.55	4.40	33.00	FDC608PZTR-ND	445.50/3,000
		20	0.037	4.5	4.5	1.6	Single	FDC638APZCT-ND	.42	3.36	25.20	FDC638APZTR-ND	340.20/3,000
		20	0.039	4.5	4.5	1.6	Single	FDC638PCT-ND	.60	4.76	35.70	FDC638PTR-ND	481.95/3,000
		20	0.044	4.5	5	1.8	Dual	FDC6036PCT-ND	1.11	9.25	74.00	FDC6036PTR-ND	1443.00/3,000
		20	0.06	4.5	3.5	1.6	Single	FDC634PCT-ND	.50	4.00	30.00	FDC634PTR-ND	405.00/3,000
		20	115m	4.5	2.3	0.7	Dual	FDC6312PCT-ND	.43	3.40	25.50	FDC6312PTR-ND	345.00/3,000
		20	0.127	4.5	1.9	0.96	Dual	FDC6306PCT-ND	.45	3.60	27.00	FDC6306PTR-ND	364.50/3,000
		20	0.15	4.5	2.2	0.96	Mosfet w/ Diode	FDC6392SCT-ND	.75	6.25	50.00	FDC6392STR-ND	975.00/3,000
		20	150m	4.5	3	0.8	Single	FDFC2P100CT-ND	.49	3.91	29.31	FDFC2P100TR-ND	395.69/3,000
		25	1.5	2.7	0.46	0.7	Dual	FDC6304PCT-ND	.49	3.66	27.45	FDC6304PTR-ND	477.00/3,000
		30	0.036	10	4.9	1.6	Dual	FDC610PZCT-ND	.53	4.20	31.50	FDC610PZTR-ND	426.00/3,000
		30	0.14	10	1.8	0.96	Dual	FDC6506PCT-ND	.58	4.35	32.63	FDC6506PTR-ND	565.50/3,000
		30	0.11	10	2.4	1.6	Single	NDC652PCT-ND	.67	5.04	37.80	NDC652PTR-ND	655.20/3,000
		-35	0.045	10	-4.3	1.6	SSOT-6	FDC365PCT-ND ***NEW!***	.90	7.50	60.00	FDC365PTR-ND ***NEW!***	1170.00/3,000
		50	5	10	0.22	0.5	Dual	NDC7003PCT-ND	.49	3.69	27.68	NDC7003PTR-ND	479.70/3,000
		60	0.082	10	3	1.6	Single	FDC5614PCT-ND	.88	6.60	49.50	FDC5614PTR-ND	858.00/3,000
	N-Chan. P-Chan.	20 20	0.027 0.055	4.5 4.5	5.9 4.2	1.8	Dual	FDC6020CCT-ND	.96	8.00	64.00	FDC6020CTR-ND	1248.00/3,000
	N-Chan. P-Chan.	20 20	0.8 0.17	4.5 4.5	1.9	—	Dual	FDC6327CCT-ND	.48	3.60	27.00	FDC6327CTR-ND	468.00/3,000
	N-Chan. P-Chan.	30 30	0.073 0.095	10 10	2.5 2.0	0.9	Single	FDC6333CCT-ND	.44	3.30	24.75	FDC6333CTR-ND	429.00/3,000
	N-Chan. P-Chan.	50 50	2 5	10 10	0.35 0.22	0.5	Compl.	NDC7001CCT-ND	.56	4.17	31.28	NDC7001CTR-ND	542.10/3,000
Power MOSFET (SO-8)													
4	N-Chan.	20	0.0035	4.5	23	3.0	Single	FDS6064N7CT-ND◆	1.53	12.20	91.50	FDS6064N7TR-ND◆	1952.00/2,500
		20	0.0035	4.5	23	3.0	Single	FDS6162N7CT-ND◆	1.74	13.92	104.40	FDS6162N7TR-ND◆	2227.20/2,500
		20	0.004	4.5	16	2.5	Single	FDS6574ACT-ND◆	1.44	12.00	96.00	FDS6574ATR-ND◆	1560.00/2,500
		20	0.004	4.5	23	3.0	Single	FDS6064N3CT-ND◆	1.53	12.20	91.50	FDS6064N3TR-ND◆	1952.00/2,500
		20	0.0045	4.5	21	3.0	Single	FDS6162N3CT-ND◆	1.53	12.20	91.50	FDS6162N3TR-ND◆	1952.00/2,500
		20	0.0106	10	7.5	1.6	Dual	FDS6911CT-ND◆	1.04	8.63	69.00	FDS6911TR-ND◆	1121.25/2,500
		30	0.003	10	23	3.0	Single	FDS7088N7CT-ND◆	1.75	14.00	105.00	FDS7088N7TR-ND◆	2240.00/2,500
		30	0.0045	10	23	3.0	Single	FDS7066N7CT-ND◆	1.75	14.00	105.00	FDS7066N7TR-ND◆	2240.00/2,500
		30	0.0045	10	20	3.0	Single	FDS7288N3CT-ND◆	1.49	11.92	89.40	FDS7288N3TR-ND◆	1907.20/2,500
		30	0.0048	10	19	3.0	Single	FDS7066ASN3CT-ND◆	1.34	11.15	89.20	FDS7066ASN3TR-ND◆	1449.50/2,500
		30	0.005	10	19	3.0	Single	FDS7060N7CT-ND◆	1.39	11.12	83.40	FDS7060N7TR-ND◆	1779.20/2,500
		30	0.006	10	17.5	3.0	Single	FDS7082N3CT-ND◆	1.20	10.00	80.00	FDS7082N3TR-ND◆	1300.00/2,500
		30	0.007	4.5	16.5	3.0	Single	FDS7064N7CT-ND◆	1.33	11.10	88.80	FDS7064N7TR-ND◆	1443.00/2,500
		30	0.0075	4.5	16	3.0	Single	FDS7064NCT-ND◆	1.33	11.10	88.80	FDS7064NTR-ND◆	1443.00/2,500
		30	0.008	10	16	3.13	Single	FDS7064SN3CT-ND◆	1.20	10.00	80.00	FDS7064SN3TR-ND◆	1300.00/2,500
		30	0.008	10	13.0	2.5	Single	FDS6670ACT-ND◆	1.44	12.00	96.00	FDS6670ATR-ND◆	1560.00/2,500
		30	0.009	10	14	3.0	Single	FDS7096N3CT-ND◆	1.11	9.25	74.00	FDS7096N3TR-ND◆	1202.50/2,500
		30	0.0095	10	12.5	2.5	Single	FDS6680ACT-ND◆	2.10	16.80	126.00	FDS6680ATR-ND◆	2688.00/2,500
		30	0.011	10	10.2	2.5	Single	FDS8878CT-ND◆	.62	4.65	34.88	FDS8878TR-ND◆	503.75/2,500

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk ‡ Tube § See data sheet for pin out *(Continued)*

Multiple pinout configurations available, see Digi-Key web site for data sheet.

Fig. 1 — SOT-23

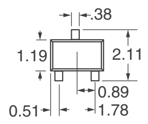

Fig. 2 — SuperSOT™-3

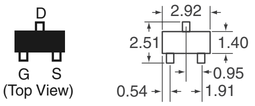

Fig. 3 — SuperSOT™-6

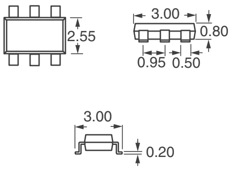

Fig. 4 — Power MOSFET (SO-8)

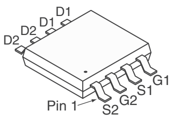

Fig. 5 — SOT-223

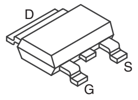

Fig. 6 — TO-220AB

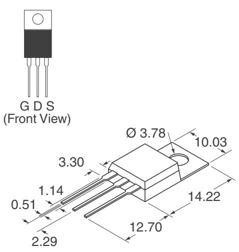

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Fig.	Type	V_{DS} (V)	R_{DS} (on)		I_D (A)	P_D (W)	Config. or Package	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing
			Ω	@ Volt.					1	10	100		
4	N-Chan.	30	0.019	10	8.5	2.5	Single	FDS8884CT-ND◆	.48	3.60	27.00	FDS8884TR-ND◆	390.00/2,500
		30	0.019	10	7.0	1.6	Dual	FDS8984CT-ND◆	.80	6.00	45.00	FDS8984TR-ND◆	650.00/2,500
		30	0.028	10	7.3	2.5	Single	NDS9410ACT-ND◆	.85	6.37	47.79	—	—
		30	0.031	10	5.5	2.0	Dual	FDS6930BCT-ND◆	.74	5.55	41.63	FDS6930BTR-ND◆	601.25/2,500
		30	0.035	10	6	2	Mosfet w/ Diode	FDFS6N303CT-ND◆	.86	6.48	48.60	FDFS6N303TR-ND◆	702.00/2,500
		30	0.037	10	5.3	2.0	Dual	NDS8936CT-ND◆	1.06	8.83	70.60	NDS8936TR-ND◆	1147.25/2,500
		30	0.042	10	4	2	Mosfet w/ Diode	FDFS6N754CT-ND◆	.72	5.40	40.50	FDFS6N754TR-ND◆	585.00/2,500
		30	0.05	10	5.0	2.0	Dual	NDS9936CT-ND◆	.84	7.00	56.00	NDS9936TR-ND◆	910.00/2,500
		30	0.075	10	3.7	2.0	Dual	NDS9956ACT-ND◆	1.00	7.47	56.03	NDS9956ATR-ND◆	809.25/2,500
		40	0.007	10	15.3	3.0	Single	FDS4070N7CT-ND◆	1.53	12.20	91.50	FDS4070N7TR-ND◆	1952.00/2,500
		40	0.0075	10	15.3	3.0	Single	FDS4070N3CT-ND◆	1.53	12.20	91.50	FDS4070N3TR-ND◆	1952.00/2,500
		40	0.009	10	12.4	3.0	Single	FDS4072N7CT-ND◆	1.45	11.58	86.85	FDS4072N7TR-ND◆	1852.80/2,500
		40	0.009	10	12.8	2.5	Single	FDS8447CT-ND◆	.95	7.88	63.00	FDS8447TR-ND◆	1023.75/2,500
		40	0.01	10	13	3.9	Single	FDS4080N7CT-ND◆	1.45	11.58	86.85	FDS4080N7TR-ND◆	1852.80/2,500
		40	0.01	10	12.4	3.0	Single	FDS4072N3CT-ND◆	1.44	11.50	86.25	FDS4072N3TR-ND◆	1840.00/2,500
		40	0.01	4.5	11	2.5	Single	FDS4672ACT-ND◆	.96	8.00	64.00	FDS4672ATR-ND◆	1040.00/2,500
		40	0.015	10	13	3.0	Single	FDS4080N3CT-ND◆	1.44	11.50	86.25	FDS4080N3TR-ND◆	1840.00/2,500
		40	0.021	10	7.6	2.5	Single	FDS8449CT-ND◆	.59	4.44	33.30	FDS8449TR-ND◆	481.00/2,500
		40	0.021	10	6	1.6	Dual	FDS8949CT-ND◆	.88	6.60	49.50	FDS8949TR-ND◆	715.00/2,500
		50	0.3	10	2.0	2.0	Dual	NDS9959CT-ND◆	.92	6.87	51.53	—	—
		60	0.012	10	10.6	3.0	Single	FDS5170N7CT-ND◆	1.66	13.28	99.60	FDS5170N7TR-ND◆	2124.80/2,500
		100	0.019	10	7.5	2.5	Single	FDS3672CT-ND◆	1.28	10.20	76.50	FDS3672TR-ND◆	1632.00/2,500
		100	0.026	10	6.7	3.0	Single	FDS3170N7CT-ND◆	1.88	15.00	112.50	FDS3170N7TR-ND◆	2400.00/2,500
		150	0.075	10	4.1	3.0	Single	FDS2070N3CT-ND◆	1.70	13.60	102.00	FDS2070N3TR-ND◆	2176.00/2,500
		150	0.078	10	4.1	3.0	Single	FDS2070N7CT-ND◆	1.88	15.00	112.50	FDS2070N7TR-ND◆	2400.00/2,500
		200	0.059	10	3.9	2.5	Single	FDS2672CT-ND◆	1.30	10.40	78.00	FDS2672TR-ND◆	1664.00/2,500
		200	0.128	10	3.0	3.0	Single	FDS2170N7CT-ND◆	1.88	15.00	112.50	FDS2170N7TR-ND◆	2400.00/2,500
		200	0.128	10	3.0	3.0	Single	FDS2170N3CT-ND◆	1.80	14.40	108.00	FDS2170N3TR-ND◆	2304.00/2,500
		250	0.097	10	3.0	2.5	Single	FDS2734CT-ND◆	1.45	11.60	87.00	FDS2734TR-ND◆	1856.00/2,500
	P-Chan.	20	0.01	10	3.5	2.0	Dual	NDS9947CT-ND◆	1.15	9.60	76.80	NDS9947TR-ND◆	1248.00/2,500
		20	0.01	10	4.3	2.5	Single	NDS9405CT-ND	1.62	12.98	97.35	NDS9405TR-ND	2076.80/2,500
		20	0.035	4.5	6.7	2.5	Single	NDS8434CT-ND◆	1.13	9.38	75.00	NDS8434TR-ND◆	1218.75/2,500
		20	0.065	4.5	4	1.6	Single	SI3443DVFSCT-ND◆	.50	3.75	28.13	SI3443DVFSTR-ND◆	487.50/3,000
		20	0.125	10	3.3	1.6	Mosfet w/ Diode	FDFS2P102ACT-ND◆	.50	3.75	28.13	FDFS2P102ATR-ND◆	406.25/2,500
								FDFS2P102CT-ND◆	.99	7.44	55.80	FDFS2P102TR-ND◆	806.00/2,500
		30	0.0077	10	13	2.5	Single	FDS6679AZCT-ND◆	1.08	9.00	72.00	FDS6679AZTR-ND◆	1170.00/2,500
		30	0.016	10	8.8	2.5	Single	FDS4435BZCT-ND◆	.80	6.00	45.00	FDS4435BZTR-ND◆	650.00/2,500
		30	0.018	10	6.9	1.6	Dual	FDS4935BZCT-ND◆	.77	6.38	51.00	FDS4935BZTR-ND◆	828.75/2,500
		30	0.05	10	5.3	2.5	Single	NDS9435ACT-ND◆	.75	5.61	42.08	NDS9435ATR-ND◆	607.75/2,500
		30	0.059	10	5.3	1.6	Mosfet w/ Diode	FDFS2P103ACT-ND◆	.75	6.25	50.00	FDFS2P103ATR-ND◆	812.50/2,500
								FDFS2P103CT-ND◆	.75	6.25	50.00	FDFS2P103TR-ND◆	812.50/2,500
		30	0.06	10	5.3	2.5	Single	NDS9430CT-ND◆	.94	7.80	62.40	NDS9430TR-ND◆	1014.00/2,500
		30	0.065	10	4.0	2.0	Dual	NDS8947CT-ND◆	1.50	12.48	99.80	NDS8947TR-ND◆	1621.75/2,500
		30	0.069	10	3.0	1.6	Mosfet w/ Diode	FDFS2P753ZCT-ND◆	.55	4.10	30.71	FDFS2P753ZTR-ND◆	443.63/2,500
		30	0.069	10	3.0	3.1	Mosfet w/ Diode	FDFS2P753AZCT-ND◆	.54	4.05	30.38	FDFS2P753AZTR-ND◆	438.75/2,500
		30	0.075	10	16	3.13	Single	FDS7079ZN3CT-ND◆	1.40	11.22	84.15	FDS7079ZN3TR-ND◆	1795.20/2,500
		30	0.13	10	2.9	2.0	Dual	NDS9953ACT-ND◆	.97	8.08	64.60	NDS9953ATR-ND◆	1049.75/2,500
		30	0.13	10	3.6	2.5	Single	NDS9400ACT-ND	.98	8.13	65.00	NDS9400ATR-ND	1056.25/2,500
		40	0.01	10	11	2.4	Single	FDS4675CT-ND◆	1.73	13.80	103.50	FDS4675TR-ND◆	2208.00/2,500
		-40	0.011	10	-10.8	5	SO-8	FDS4141CT-ND◆ ***NEW!***	1.65	13.20	99.00	FDS4141TR-ND◆ ***NEW!***	2112.00/2,500
		60	0.082	10	2.9	2.0	Dual	FDS9958CT-ND◆	.90	7.50	60.00	FDS9958TR-ND◆	975.00/2,500
		60	0.11	10	3.0	1.6	Mosfet w/ Diode	FDFS2P106ACT-ND◆	1.43	11.42	85.65	FDFS2P106ATR-ND◆	1827.20/2,500
		60	0.15	10	3.3	2.5	Single	NDS9407CT-ND◆	.78	6.53	52.20	NDS9407TR-ND◆	848.25/2,500
		60	0.25	10	2.3	2.0	Dual	NDS9948CT-ND◆	.97	8.08	64.60	NDS9948TR-ND◆	1049.75/2,500
NEW! PowerTrench® SyncFET™ (SO-8) — RoHS Compliant NEW!													
4	N-Chan.	30	0.0038	10	18	2.5	SO-8	FDS8672SCT-ND	1.50	12.50	100.00	FDS8672STR-ND	1600.00/2,500
Power MOSFET (SO-8) (Complementary N-P Channel 3 Phase Brushless Motor Driver)													
4	N-Chan.	30	0.037	10	5.3	2.0	Compl.	NDS8958CT-ND◆	1.33	11.10	88.80	—	—
	P-Chan.	30	0.065	10	4.0								
	N-Chan.	30	0.08	10	4.0	2.0	Compl.	NDS9952ACT-ND◆	.81	6.78	54.20	NDS9952ATR-ND◆	880.75/2,500
	P-Chan.	30	0.13	10	2.9								
Power MOSFET (SO-8) (Complementary MOSFETS Half Bridge) — RoHS Compliant													
4	N-Chan.	20	0.01	4.5	9.4	2	Dual	FDS6898ACT-ND	1.10	9.18	73.40	FDS6898ATR-ND	1192.75/2,500
		20	0.025	4.5	6.5	2	Dual	FDS9926ACT-ND	.67	5.04	37.80	FDS9926ATR-ND	546.00/2,500
		30	4m	10	20	1	Single	FDS8812NZCT-ND	1.23	10.24	81.90	FDS8812NZTR-ND	1330.88/2,500
		30	4.5m	10	18.5	1	Single	FDS8813NZCT-ND	1.10	9.19	73.50	FDS8813NZTR-ND	1194.38/2,500
		30	7m	10	15	1	Single	FDS8817NZCT-ND	.79	6.56	52.50	FDS8817NZTR-ND	853.13/2,500
		30	0.0085	10	11.5	2.5	Single	FDS6680CT-ND	1.01	8.38	67.00	FDS6680TR-ND	1088.75/2,500
		30	0.0098	10	11	2.5	Single	FDS6690ACT-ND	1.73	13.80	103.50	FDS6690ATR-ND	2208.00/2,500
		30	0.011	10	7.5	1.6	Dual	FDS6990ACT-ND	.91	7.60	60.80	FDS6990ATR-ND	988.00/2,500
		30	0.012	10	8.6	2	Dual	FDS6982CT-ND	.99	8.25	66.00	FDS6982TR-ND	1072.50/2,500
		30	13.5m	10	6.3	0.9	Dual	FDS6982ASCT-ND	.75	6.25	50.00	FDS6982ASTR-ND	812.50/2,500
		30	0.019	10	6	1.6	Dual	FDS6912ACT-ND	.94	7.83	62.60	FDS6912ATR-ND	1017.25/2,500
		30	0.019	10	8.4	2.5	Single	FDS6612ACT-ND	.74	5.55	41.63	FDS6612ATR-ND	601.25/2,500
		30	23m	10	7	1.6	Dual	FDFS6N548CT-ND	.92	6.93	51.98	FDFS6N548TR-ND	750.75/2,500
		30	0.03	4.5	5.5	0.9	Dual	FDS8926ACT-ND	1.27	10.58	84.60	FDS8926ATR-ND	1375.00/2,500
		30	0.032	10	5.5	2	Dual	FDS6930ACT-ND	.82	6.18	46.35	FDS6930ATR-ND	669.50/2,500
		60	0.012	10	10	2.5	Single	FDS5670CT-ND	1.49	11.88	89.10	FDS5670TR-ND	1900.80/2,500
		60	0.02	10	8	1	Single	FDS5680CT-ND	1.43	11.88	95.00	FDS5680TR-ND	1545.00/2,500
		60	0.49	10	4.8	2.5	Dual	HUFA76413DK8TCT-ND	1.12	9.33	74.60	HUFA76413DK8TTR-ND	1212.50/2,500
		60	0.1	10	3.5	1	Single	FDS9945CT-ND	.82	6.15	46.13	FDS9945TR-ND	667.50/2,500
		80	44m	10	4.7	0.9	Dual	FDS3890CT-ND	1.36	11.35	90.80	FDS3890TR-ND	1475.00/2,500
		100	50m	10	4.5	2.5	Single	FDS3692CT-ND	.88	7.30	58.40	FDS3692TR-ND	950.00/2,500
		100	54m	10	4.5	2.5	Dual	FDS3992CT-ND	1.30	10.38	77.85	FDS3992TR-ND	1660.00/2,500
		150	0.04	10	4.9	2.5	Single	FDS2572CT-ND	1.38	11.50	92.00	FDS2572TR-ND	1495.00/2,500
		200	130m	10	3	1	Single	FDS2670CT-ND	1.49	12.43	99.40	FDS2670TR-ND	1615.00/2,500
	P-Chan.	20	0.0067	4.5	13.5	2.5	Single	FDS4465CT-ND	1.13	9.45	75.60	FDS4465TR-ND	1228.50/2,500
		20	13m	4.5	10	1.2	Single	FDS6575CT-ND	1.30	10.83	86.60	FDS6575TR-ND	1407.50/2,500
		20	0.014	4.5	8	2.5	Single	FDS6375CT-ND	.63	5.25	42.00	FDS6375TR-ND	682.50/2,500
		20	0.024	4.5	6	2	Dual	FDS6875CT-ND	1.01	8.40	67.20	FDS6875TR-ND	1092.00/2,500
		20	0.036	4.5	5	2.5	Single	FDS8433ACT-ND	.68	5.13	38.48	FDS8433ATR-ND	555.75/2,500
		30	0.011	10	11	2.5	Single	FDS6675CT-ND	1.17	9.73	77.80	FDS6675TR-ND	1264.25/2,500
		30	0.015	10	8.8	2.5	Single	SI4435DYFSCT-ND	.76	5.70	42.75	SI4435DYFSTR-ND	617.50/2,500
		30	0.019	10	7	1.6	Dual	FDS4935ACT-ND	.94	7.85	62.80	FDS4935ATR-ND	1020.50/2,500
		30	0.025	10	6	2	Dual	FDS6975CT-ND	1.13	9.45	75.60	FDS6975TR-ND	1228.50/2,500
		30	0.042	10	5.3	2.5	Single	FDS9435ACT-ND	.65	4.89	36.68	FDS9435ATR-ND	529.75/2,500

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk ‡ Tube § See data sheet for pin out *(Continued)*

Multiple pinout configurations available, see Digi-Key web site for data sheet.

Fig. 7 — TO-92

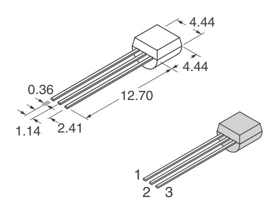

Fig. 8 — TO-262AB

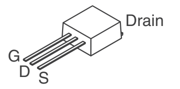

Fig. 9 — TO-247

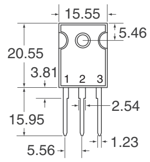

Fig. 10 — D-PAK (TO-252, TO-252AA)

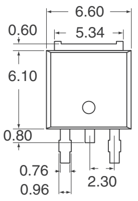

Fig. 11 — D^2-PAK (TO-263AB)

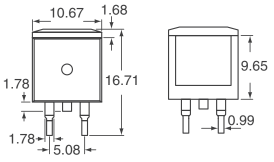

Fig. 12 — TO-3P

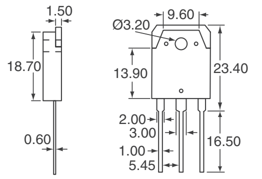

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Fig.	Type	V_{DS} (V)	R_{DS} (on)		I_D (A)	P_D (W)	Config. or Package	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing
			Ω	@ Volt.					1	10	100		
4	P-Chan.	30	4.6m	10	20	1	Single	FDS6681ZCT-ND	1.84	14.68	110.10	FDS6681ZTR-ND	2350.00/2,500
	N-Chan. P-Chan.	30 30	0.037 0.065	10 10	6.3 4.8	2.5	Compl.	NDS8858HCT-ND	1.02	8.50	68.00	NDS8858HTR-ND	1105.00/2,500
	N-Chan. P-Chan.	30 30	17m 20.5m	10 10	8.6 7.3	2 0.9	Dual	FDS8858CZCT-ND	1.17	9.75	78.00	FDS8858CZTR-ND	1267.50/2,500
	N-Chan. P-Chan.	30 30	0.019 0.042	10 10	7 5	2	Dual	FDS8958ACT-ND	2.50	19.98	155.40	FDS8958ATR-ND	3496.50/2,500
	N-Chan. P-Chan.	30 20	0.025 0.043	4.5 4.5	5.5 4	2	Dual	FDS8928ACT-ND	1.06	8.83	70.60	FDS8928ATR-ND	1147.25/2,500
	N-Chan. P-Chan.	30 30	0.065 0.085	10 10	3.9 3.5	2 0.9	Dual	SI4532DYCT-ND	.70	5.22	39.15	SI4532DYTR-ND	565.00/2,500
	N-Chan. P-Chan.	60 60	55m 105m	10 10	4.5 3.5	2 1	Dual	FDS4559CT-ND	.81	6.73	53.80	FDS4559TR-ND	875.00/2,500
PowerSOT (SOT-223) — RoHS Compliant													
5	N-Chan.	30	0.043	10	5	3	Single	FDT457NCT-ND	.48	3.60	27.00	FDT457NTR-ND	390.00/2,500
		60	0.12	10	3.7	3.0	Single	NDT3055CT-ND	.56	4.20	31.50	NDT3055TR-ND	455.00/2,500
		60	0.15	4.5	3.5	3.0	Single	NDT3055LCT-ND	.63	4.71	35.33	NDT3055LTR-ND	510.25/2,500
		100	0.275	10	1.7	2	Single	FQT7N10LTFCT-ND	.48	3.63	27.23	FQT7N10LTFTR-ND	629.20/4,000
		100	0.2	10	2.3	2.4	Single	IRFM120ATFCT-ND	.62	4.62	34.65	IRFM120ATFTR-ND	800.80/4,000
		100	0.28	10	1.7	2.0	Single	FQT7N10TFCT-ND	.59	4.72	35.40	FQT7N10TFTR-ND	637.20/4,000
	P-Chan.	30	0.037	10	7.1	3.0	Single	NDT451ANCT-ND	.90	6.78	50.85	NDT451ANTR-ND	734.50/2,500
		30	0.035	10	7.3	3.0	Single	NDT456PCT-ND	1.27	10.18	76.35	NDT456PTR-ND	1628.80/2,500
		30	0.065	10	5.0	3.0	Single	NDT452APCT-ND	.75	6.25	50.00	NDT452APTR-ND	812.50/2,500
		60	0.3	10	2.5	3.0	Single	NDT2955CT-ND	.58	4.35	32.63	NDT2955TR-ND	471.25/2,500
		100	0.82	10	1.0	2.0	Single	FQT5P10TFCT-ND	.59	4.68	35.10	FQT5P10TFTR-ND	631.80/4,000
NEW! SOT-323 — RoHS Compliant NEW!													
5	N-Chan.	60	1.6	5	1.43	0.2	SOT-323	2N7002WCT-ND	.14	1.13	9.00	2N7002WTR-ND	175.50/3,000
NEW! SOT-523F — RoHS Compliant NEW!													
5	N-Chan.	60	1.6	5	115	200	SOT-523F	2N7002TCT-ND	.56	4.20	31.50	2N7002TTR-ND	546.00/3,000
		60	7.5	—	0.28	—	SOT-523F	2N7002VACT-ND	.76	5.67	42.53	2N7002VATR-ND	737.10/3,000
		60	7.5	—	0.28	—	SOT-523F	2N7002VCT-ND	.76	5.67	42.53	2N7002VTR-ND	737.10/3,000
Through-Hole Power MOSFET (TO-220AB)													
6	N-Chan.	30	0.0019	10	80	254	Single	FDP8860-ND◆†	1.88	15.00	112.50	—	—
		40	0.0021	10	80	300	Single	FDP8441-ND◆†	2.15	17.20	129.00	—	—
		40	2.3m	10	80	254	Single	FDP8442-ND◆†	2.79	22.28	173.32	—	—
		40	0.0027	10	80	188	TO-220AB	FDP8443-ND◆† ***NEW!***	1.63	13.00	97.50	—	—
		50	0.015	10	75	150	TO-220AB	NDP7050-ND†	3.10	24.80	192.92	—	—
		50	0.015	2.7	75	150	TO-220AB	NDP7050L-ND◆†	1.38	11.00	82.50	—	—
		55	0.008	10	100	175	Single	HRF3205-ND◆†	1.83	14.62	109.65	—	—
		55	0.028	10	35	93	Single	HUF75321P3-ND◆†	.84	6.98	55.80	—	—
		55	0.01	10	75	200	Single	HUF75339P3-ND◆†	1.29	10.34	77.55	—	—
		55	0.006	10	75	325	Single	HUF75345P3-ND◆†	1.93	15.40	115.50	—	—
		60	0.0035	10	80	310	Single	FDP038AN06A0-ND◆†	3.31	26.46	205.80	—	—
		60	0.028	10	45	131	Single	RFP45N06-ND◆†	1.29	10.78	86.20	—	—
		60	0.022	10	50	131	Single	RFP50N06-ND◆†	1.23	10.25	82.00	—	—
		60	0.107	2.5	11	38	Single	RFP3055LE-ND◆†	.79	5.94	44.55	—	—
		60	0.047	2.5	30	96	Single	RFP30N06LE-ND◆†	.89	7.40	59.20	—	—
		60	0.025	10	48	100	TO-220AB	NDP6060-ND◆†	1.37	10.98	82.35	—	—
		60	0.025	2.7	48	100	TO-220AB	NDP6060L-ND◆†	1.38	11.00	82.50	—	—
		60	0.015	10	75	150	TO-220AB	NDP7060-ND◆†	2.42	19.34	145.05	—	—
		60	4.3m	10	80	245	Single	FDP050AN06A0-ND◆†	2.33	18.60	139.50	—	—
		75	0.004	10	80	310	Single	FDP047AN08A0-ND◆†	3.13	25.02	194.60	—	—
		80	0.01	10	75	270	Single	HUF75545P3-ND◆†	2.38	19.02	142.65	—	—
		100	0.2	2.5	12	60	Single	RFP12N10L-ND†	.97	7.26	54.45	—	—
		100	0.015	10	80	255	Single	FDP3651U-ND◆†	2.39	19.08	148.40	—	—
		100	0.0075	10	80	310	Single	FDP3632-ND◆†	3.15	25.20	196.00	—	—
		100	0.021	10	56	200	Single	HUF75639P3-ND◆†	1.48	11.80	88.50	—	—
		100	0.0115	10	75	310	Single	HUF75645P3-ND◆†	2.42	19.32	144.90	—	—
		100	14m	10	61	150	Single	FDP3652-ND◆†	1.85	14.80	111.00	—	—
		105	0.025	10	41	135	Single	FDP3672-ND◆†	1.40	11.20	84.00	—	—
		150	0.014	10	79	310	Single	FDP2532-ND◆†	3.15	25.20	196.00	—	—
Through-Hole Power MOSFET (TO-92) — RoHS Compliant													
7	N-Chan.	25	—	—	0.01	0.625	TO-92	J310-ND†	.33	2.46	17.06	—	—
		30	30	—	0.5	—	Single	PN4392FS-ND†	.30	2.21	15.34	—	—
		35	30	0.1	0.05	0.625	TO-92	J111FS-ND†	.33	2.47	17.11	—	—
		35	50	0.1	0.05	0.625	TO-92	J112FS-ND†	.33	2.47	17.11	—	—
		40	—	—	0.05	0.625	TO-92	J201-ND†	.30	2.23	15.44	—	—
		60	5	10	0.2	0.4	TO-92	2N7000FS-ND†	.26	1.95	13.52	—	—
		60	5	10	0.5	0.83	TO-92	BS170-ND†	.34	2.55	17.68	—	—
		60	1.2	10	0.5	0.83	Single	BS170_D27ZCT-ND	.34	2.55	17.68	BS170_D27ZTR-ND	149.60/2,000
		60	1.2	10	0.5	0.83	TO-92	BS170_D75ZCT-ND	.34	2.55	17.68	BS170_D75ZTB-ND▲	149.60/2,000
		100	0.04	10	40	160	Single	RFP40N10-ND†	1.31	10.44	78.30	—	—
		500	4.6	10	0.38	0.89	Single	FQN1N50CBU-ND†	.51	4.15	28.44	—	—
	P-Chan.	30	85	0.1	0.05	0.35	TO-92	J175FS-ND†	.43	3.38	23.76	—	—
		30	125	0.1	0.05	0.35	TO-92	J176FS-ND†	.43	3.38	23.76	—	—
TO-262AB — RoHS Compliant													
8	N-Chan.	40	0.0022	10	80	300	Single	FDI8441-ND†	2.63	21.04	163.66	—	—
		40	2.3m	10	80	254	TO-262AB	FDI8442-ND† ***NEW!***	1.88	15.00	112.50	—	—
TO-247 — RoHS Compliant													
9	N-Chan.	55	0.0065	10	75	285	Single	HUF75344G3-ND†	2.27	18.16	136.20	—	—
		60	0.014	10	70	150	Single	RFG70N06-ND†	2.11	16.88	126.60	—	—
		150	0.016	10	75	500	Single	HUFA75852G3-ND†	5.27	42.16	327.88	—	—
		500	0.089	10	48	625	Single	FDH50N50-ND†	6.08	48.64	410.40	—	—
		500	0.11	10	44	750	Single	FDH44N50-ND†	6.99	55.94	471.96	—	—
		600	0.062	10	47	417	Single	FCH47N60F-ND†	9.81	88.35	783.37	—	—
		600	0.058	10	47	417	Single	FCH47N60-ND†	9.98	79.84	673.65	—	—
		600	0.19	10	20	208	Single	FCH20N60-ND†	4.48	35.82	278.60	—	—
D-PAK (TO-252, TO-252AA)													
10	N-Chan.	20	0.0066	10	35	49.5	Single	FDD8580CT-ND◆	.58	4.32	32.40	FDD8580TR-ND◆	468.00/2,500
		20	0.004	10	35	77	Single	FDD8586CT-ND◆	.78	5.82	43.65	FDD8586TR-ND◆	630.50/2,500
		25	0.0116	10	35	39	Single	FDD8778CT-ND◆	.48	3.60	27.00	FDD8778TR-ND◆	390.00/2,500
		25	0.0085	10	35	50	Single	FDD8782CT-ND◆	.72	5.40	40.50	FDD8782TR-ND◆	585.00/2,500
		25	0.0033	10	35	115	Single	FDD8770CT-ND◆	1.05	8.36	62.70	FDD8770TR-ND◆	1337.60/2,500
		25	0.0065	10	35	50	Single	FDD8780CT-ND◆	.72	5.40	40.50	FDD8780TR-ND◆	585.00/2,500
		25	0.028	10	2.7	18	Single	FDD8750CT-ND◆	.53	4.20	31.50	FDD8750TR-ND◆	354.38/2,500
		30	0.008	10	66	3.2	Single	FDD6670ACT-ND	1.50	12.00	90.00	—	—
		30	0.0068	10	76	70	SyncFET	FDD6670ASCT-ND◆	.84	7.00	56.00	FDD6670ASTR-ND◆	910.00/2,500
		30	0.028	10	21	28	Single	FDD6630ACT-ND◆	.64	4.80	36.00	FDD6630ATR-ND◆	520.00/2,500
		30	0.0077	10	46	56	Single	FDD6690ACT-ND◆	.92	7.68	61.40	FDD6690ATR-ND◆	997.75/2,500

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk ‡ Tube § See data sheet for pin out *(Continued)*

Multiple pinout configurations available, see Digi-Key web site for data sheet.

Fig. 13 — TO-3PN *NEW!*

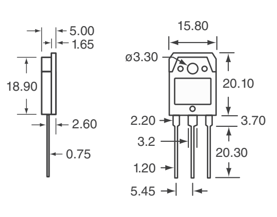

Fig. 14 — TO-3PF

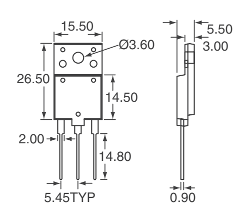

Note: Dimensions are maximum size.

Fig. 15 — TO-220

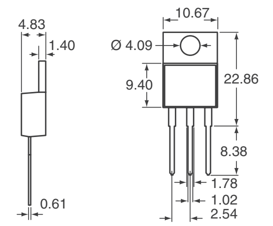

Fig. 16 — TO-220F

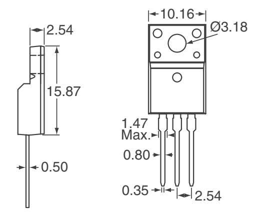

Fig. 17 — TO252-4L

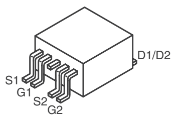

Fig. 18 — SC75-6

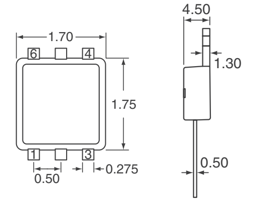

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Fig.	Type	V_{DS} (V)	R_{DS} (on) Ω	R_{DS} (on) @ Volt.	I_D (A)	P_D (W)	Config. or Package	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Pricing
10	N-Chan.	40	5.8m	10	50	65	TO-252	FDD8453LZCT-ND◆ ***NEW!***	1.24	10.33	82.60	FDD8453LZTR-ND◆ ***NEW!***	1342.25/2,500
		40	0.019	10	28	37	Single	FDD8451CT-ND◆	.92	6.90	51.75	FDD8451TR-ND◆	747.50/2,500
		40	0.007	10	54	45	Single	FDD8447LCT-ND◆	.81	6.75	54.00	FDD8447LTR-ND◆	877.50/2,500
		40	3.8m	5	50	153	Single	FDD8444LCT-ND◆	1.51	12.10	90.75	FDD8444LTR-ND◆	1936.00/2,500
		50	0.100	10	14	48	Single	RFD14N05SM-ND◆†	.76	5.70	42.75	—	—
		50	0.100	2.5	14	48	Single	RFD14N05LSM-ND◆†	.80	6.00	45.00	—	—
		50	0.047	2.5	16	60	Single	RFD16N05LSM-ND◆†	.89	7.43	59.40	—	—
		50	0.047	10	16	72	Single	RFD16N05SM-ND◆†	.82	6.83	54.60	—	—
		50	0.1	5	14	48	Single	RFD14N05LSM9ACT-ND◆	.92	6.87	51.53	RFD14N05LSM9ATR-ND◆	744.25/2,500
		50	0.047	5	16	60	Single	RFD16N05LSM9ACT-ND◆	.95	7.88	63.00	RFD16N05LSM9ATR-ND◆	1023.75/2,500
		50	0.047	10	16	72	Single	RFD16N05SM9ACT-ND◆	.79	6.58	52.60	RFD16N05SM9ATR-ND◆	854.75/2,500
		60	0.0094	10	50	135	Single	FDD10AN06A0CT-ND◆	1.58	12.60	94.50	FDD10AN06A0TR-ND◆	2015.00/2,500
		60	0.0115	10	50	115	Single	FDD13AN06A0CT-ND◆	1.36	11.30	90.40	FDD13AN06A0TR-ND◆	1469.00/2,500
		60	0.0165	10	35	88	Single	FDD5810CT-ND◆	.96	8.00	64.00	FDD5810TR-ND◆	1040.00/2,500
		60	0.027	10	30	50	Single	FDD5690CT-ND◆	1.15	9.55	76.40	FDD5690TR-ND◆	1242.50/2,500
		60	0.107	5	11	38	Single	RFD3055LESM9ACT-ND◆	.76	5.67	42.53	RFD3055LESM9ATR-ND◆	614.25/2,500
		60	0.107	2.5	11	38	Single	RFD3055LESM-ND◆†	.82	6.12	45.90	—	—
		60	0.18	5	12	48	Single	MTD3055VLCT-ND◆	1.14	9.53	76.20	MTD3055VLTR-ND◆	1238.25/2,500
		60	47m	5	16	90	Single	RFD16N06LESM9ACT-ND◆	1.00	8.33	66.60	RFD16N06LESM9ATR-ND◆	1082.50/2,500
		75	0.013	10	50	135	Single	FDD16AN08A0CT-ND◆	1.53	12.20	91.50	FDD16AN08A0TR-ND◆	1952.50/2,500
		100	0.024	10	44	135	Single	FDD3672CT-ND◆	1.44	12.00	96.00	FDD3672TR-ND◆	1560.00/2,500
		100	28.7m	10	29	69	TO-252	FDD3860CT-ND◆ ***NEW!***	.96	8.00	64.00	FDD3860TR-ND◆ ***NEW!***	1040.00/2,500
		100	0.032	10	32	95	Single	FDD3682CT-ND◆	.99	8.25	66.00	FDD3682TR-ND◆	1072.50/2,500
		100	0.13	10	10	49	Single	HUFA76609D3STCT-ND◆	.95	7.14	53.55	HUFA76609D3STTR-ND◆	773.50/2,500
		150	0.045	10	29	135	Single	FDD2572CT-ND◆	1.44	12.00	96.00	FDD2572TR-ND◆	1560.00/2,500
		200	0.28	10	9	2.5	Single	FQD12N20LTMCT-ND◆	.95	7.14	53.55	FQD12N20LTMTR-ND◆	772.50/2,500
		200	0.58	10	5	43	Single	FDD7N20TMCT-ND◆	.99	7.44	55.80	FDD7N20TMTR-ND◆	806.00/2,500
		200	0.6	10	4.5	40	Single	FDD6N20TFCT-ND◆	.96	7.20	54.00	FDD6N20TFTR-ND◆	638.40/2,000
		250	0.22	10	16	160	Single	FQD16N25CTMCT-ND◆	.96	8.00	64.00	FQD16N25CTMTR-ND◆	1040.00/2,500
		250	0.9	10	4.4	50	Single	FDD6N25TFCT-ND◆	.99	7.44	55.80	FDD6N25TFTR-ND◆	659.68/2,000
		250	0.9	10	4.4	50	Single	FDD6N25TMCT-ND◆	.76	6.35	50.80	FDD6N25TMTR-ND◆	825.50/2,500
		400	2.8	10	2	30	Single	FDD3N40TFCT-ND◆	.83	6.88	55.00	FDD3N40TFTR-ND◆	731.50/2,000
		400	2.8	10	2	30	Single	FDD3N40TMCT-ND◆	.83	6.88	55.00	FDD3N40TMTR-ND◆	893.75/2,500
		500	1.0	10	5.5	89	Single	FDD6N50FTFCT-ND◆	.90	7.50	60.00	FDD6N50FTFTR-ND◆	798.00/2,000
		500	1.0	10	5.5	89	Single	FDD6N50FTMCT-ND◆	.90	7.50	60.00	FDD6N50FTMTR-ND◆	798.00/2,000
		500	0.76	10	6	89	Single	FDD6N50TFCT-ND◆	.95	7.88	63.00	FDD6N50TFTR-ND◆	837.90/2,000
		600	0.81	10	4.6	54	Single	FCD5N60TFCT-ND◆	1.28	10.20	76.50	FCD5N60TFTR-ND◆	1326.00/2,000
		600	0.81	10	4.6	54	Single	FCD5N60TMCT-ND◆	1.28	10.20	76.50	FCD5N60TMTR-ND◆	1632.00/2,500
		600	0.53	10	7	83	Single	FCD7N60TFCT-ND◆	1.70	13.60	102.00	FCD7N60TFTR-ND◆	1768.00/2,000
		600	0.53	10	7	83	Single	FCD7N60TMCT-ND◆	1.70	13.60	102.00	FCD7N60TMTR-ND◆	2176.00/2,500
		600	1.0	10	3.9	50	Single	FCD4N60TFCT-ND◆	1.38	11.50	92.00	FCD4N60TFTR-ND◆	1223.60/2,000
		600	1.0	10	3.9	50	Single	FCD4N60TMCT-ND◆	1.38	11.50	92.00	FCD4N60TMTR-ND◆	1495.00/2,500
		800	4.9	10	1.8	2.5	Single	FQD2N80TMCT-ND◆	.94	7.80	62.40	FQD2N80TMTR-ND◆	1014.00/2,500
		900	5.6	10	1.7	2.5	Single	FQD2N90TFCT-ND◆	.94	7.80	62.40	FQD2N90TFTR-ND◆	829.92/2,000
	P-Chan.	40	0.0101	10	50	69	Single	FDD4141CT-ND◆	.84	7.00	56.00	FDD4141TR-ND◆	910.00/2,500
		40	0.036	10	14	42	Single	FDD4243CT-ND◆	.92	6.93	51.98	FDD4243TR-ND◆	750.75/2,500
		40	0.023	10	32	69	Single	FDD4685CT-ND◆	.88	7.35	58.80	FDD4685TR-ND◆	955.50/2,500
		60	0.11	10	12	2.5	Single	FQD17P06TFCT-ND◆	.84	6.27	47.03	FQD17P06TFTR-ND◆	555.94/2,000
		60	0.076	10	15	42	Single	FDD5614PCT-ND◆	.75	6.25	50.00	FDD5614PTR-ND◆	812.50/2,500
D^2PAK (TO-263AB)													
11	N-Chan.	30	0.0031	10	80	187	TO-263AB	FDB8030LCT-ND◆	4.12	32.94	256.20	FDB8030LTR-ND◆	1903.20/800
		30	0.022	10	25	50	TO-263AB	NDB603ALCT-ND	1.28	10.24	76.80	NDB603ALTR-ND	552.96/800
		30	0.0049	10	93	80	Single	FDB8896CT-ND◆	.93	7.75	62.00	FDB8896TR-ND◆	347.20/800
		30	0.0014	10	80	300	Single	FDB8832CT-ND◆	2.60	20.79	161.70	FDB8832TR-ND◆	1201.20/800
		40	0.0019	10	80	300	Single	FDB8441CT-ND◆	2.18	17.40	130.50	FDB8441TR-ND◆	939.60/800
		40	0.0036	10	80	254	Single	FDB8442CT-ND◆	2.33	18.60	139.50	FDB8442TR-ND◆	1004.40/800
		40	0.0023	10	80	188	TO-263AB	FDB8443CT-ND◆	2.24	17.88	134.10	FDB8443TR-ND◆	965.52/800
		40	0.013	10	70	92	Single	FDB8445CT-ND◆	1.26	10.50	84.00	FDB8445TR-ND◆	470.40/800
		40	8.5	10	50	60	Single	FDB8447LCT-ND◆	1.04	8.66	69.30	FDB8447LTR-ND◆	388.08/800
		40	.0063	10	50	66	Single	FDB8453LZCT-ND◆	1.08	9.00	72.00	FDB8453LZTR-ND◆	403.20/800
		50	0.1	10	15	50	TO-263AB	NDB4050CT-ND	1.10	9.20	73.60	NDB4050TR-ND	397.44/800
		60	0.025	2.7	48	100	TO-263AB	NDB6060LCT-ND◆	1.34	11.20	89.60	NDB6060LTR-ND◆	501.76/800
		60	0.015	2.7	75	150	TO-263AB	NDB7060LCT-ND	16.02	120.15	801.00	—	—
		60	0.021	10	32	58	Single	FDB5690CT-ND◆	1.49	12.45	99.60	FDB5690TR-ND◆	557.76/800
		60	3.5m	10	80	310	Single	FDB035AN06A0CT-ND◆	3.56	28.44	221.20	FDB035AN06A0TR-ND◆	1643.20/800
		75	0.0039	10	80	310	Single	FDB045AN08A0CT-ND◆	3.20	25.56	198.80	FDB045AN08A0TR-ND◆	1476.80/800
		80	0.01	10	75	270	Single	HUF75545S3STCT-ND◆	2.28	18.22	141.68	HUF75545S3STTR-ND◆	1052.80/800
		100	0.0075	10	80	310	Single	FDB3632CT-ND◆	3.31	26.46	205.80	FDB3632TR-ND◆	1528.80/800
		100	0.0115	10	75	310	Single	HUF75645S3STCT-ND◆	2.27	18.18	141.40	HUF75645S3STTR-ND◆	1050.40/800
		100	0.021	10	55	3.75	Single	FQB55N10TMCT-ND◆	1.47	11.76	88.20	FQB55N10TMTR-ND◆	635.04/800
		100	0.04	10	33	127	Single	FQB33N10TMCT-ND◆	1.04	8.70	69.60	FQB33N10TMTR-ND◆	389.76/800
		150	0.014	10	79	310	Single	FDB2532CT-ND◆	3.29	26.35	204.96	FDB2532TR-ND◆	1522.56/800
		200	0.06	10	31	3.13	Single	FQB34N20TM_AM002CT-ND◆	1.68	13.42	100.65	FQB34N20TM_AM002TR-ND◆	724.68/800
		200	0.057	10	31	180	Single	FQB34N20LTMCT-ND◆	1.54	12.32	92.40	FQB34N20LTMTR-ND◆	665.28/800
		200	0.0229	10	62	260	Single	FDB2614CT-ND◆	3.44	27.54	214.20	FDB2614TR-ND◆	1591.20/800
		200	0.041	10	52	357	Single	FDB52N20TMCT-ND◆	1.75	14.00	105.00	FDB52N20TMTR-ND◆	756.00/800
		250	0.0363	10	50	260	Single	FDB2710CT-ND◆	4.48	35.82	278.60	FDB2710TR-ND◆	2069.60/800
		250	0.058	10	44	307	Single	FDB44N25TMCT-ND◆	1.75	14.00	105.00	FDB44N25TMTR-ND◆	756.00/800
		300	0.24	10	14	140	Single	FDB14N30TMCT-ND◆	1.45	11.56	86.70	FDB14N30TMTR-ND◆	624.24/800
		300	0.108	10	28	250	Single	FDB28N30TMCT-ND◆	2.13	17.06	127.95	FDB28N30TMTR-ND◆	921.24/800
		330	0.18	10	25	250	Single	FQB25N33TMCT-ND◆	2.33	18.63	144.90	FQB25N33TMTR-ND◆	1076.40/800
		500	0.55	10	11.5	165	Single	FDB12N50TMCT-ND◆	1.62	12.92	96.90	FDB12N50TMTR-ND◆	697.68/800
		500	0.7	10	9	173	Single	FQB9N50CFTMCT-ND◆	1.60	12.78	95.85	FQB9N50CFTMTR-ND◆	690.12/800
		500	1.3	10	5	96	Single	FQB5N50CFTMCT-ND◆	1.44	12.03	96.20	FQB5N50CFTMTR-ND◆	538.72/800
		600	0.32	10	11	125	Single	FCB11N60FTMCT-ND◆	2.70	21.60	168.00	FCB11N60FTMTR-ND◆	1248.00/800
		600	0.38	10	11	125	Single	FCB11N60TMCT-ND◆	2.30	18.40	138.00	FCB11N60TMTR-ND◆	993.60/800
		600	0.19	10	20	208	Single	FCB20N60TMCT-ND◆	4.01	32.04	249.20	FCB20N60TMTR-ND◆	1851.20/800
		600	0.15	10	20	208	Single	FCB20N60FTMCT-ND◆	5.22	41.76	324.80	FCB20N60FTMTR-ND◆	2412.80/800
		650	1.2	10	7	173	Single	FQB7N65CTMCT-ND◆	1.69	13.48	101.10	FQB7N65CTMTR-ND◆	727.92/800
TO-3P — RoHS Compliant													
12	N-Chan.	250	0.034	10	69	480	Single	FDA69N25-ND†	4.65	37.17	289.10	—	—
		280	0.035	10	75	520	Single	FDA75N28-ND†	5.01	40.10	311.92	—	—
		500	0.156	10	24	290	Single	FQA24N50-ND†	3.51	28.08	218.40	—	—
		500	0.25	10	22	278	Single	SSH22N50A-ND†	2.99	23.96	186.34	—	—
		500	0.31	10	16.5	205	Single	FDA16N50-ND†	3.09	24.75	192.50	—	—
		600	0.19	10	20	208	Single	FCA20N60-ND†	4.48	35.82	278.60	—	—
TO-3PN — RoHS Compliant													
13	N-Chan.	55	0.0065	10	75	288.5	Single	HUF75344A3-ND†	2.32	18.56	144.34	—	—
		250	29.2m	10	64	357	Single	FDA2712-ND†	5.46	43.68	368.55	—	—
		250	0.088	10	33	245	Single	FDA33N25-ND†	1.65	13.20	99.00	—	—
		400	0.15	10	23	235	TO-3PN	FDA24N40F-ND† ***NEW!***	2.48	19.80	148.50	—	—
		500	0.22	10	19	239	Single	FDA18N50-ND†	3.09	24.75	192.50	—	—
		500	0.22	10	22	388	TO-3PN	FDA20N50F-ND† ***NEW!***	2.30	18.36	142.80	—	—
		600	0.15	10	20	208	Single	FCA20N60F-ND†	5.78	46.21	389.88	—	—

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk ‡ Tube § See data sheet for pin out *(Continued)*

Multiple pinout configurations available, see Digi-Key web site for data sheet.

Fig. 19 — SC70-6

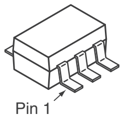

Fig. 20 — SC89-6

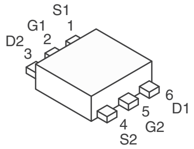

Fig. 21 — 8-SOP

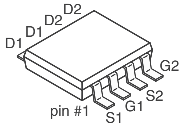

Fig. 22 — 8-TSSOP

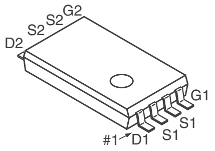

Fig. 23 — I-PAK / I^2-PAK

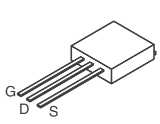

Fig. 24 — MLP 5x6

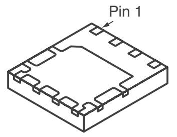

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Fig.	Type	V_{DS} (V)	R_{DS} (on) Ω	R_{DS} (on) @ Volt.	I_D (A)	P_D (W)	Config. or Package	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Pricing
13	N-Chan.	650	0.36	10	16	260	Single	FDA15N65-ND†	2.50	19.98	155.40	—	—
TO-3PF — RoHS Compliant													
14	N-Chan.	280	0.043	10	36	165	Single	FDAF62N28-ND†	4.02	32.18	250.32	—	—
		280	0.035	10	46	215	Single	FDAF75N28-ND†	5.01	40.10	311.92	—	—
		300	0.047	10	34	161	Single	FDAF59N30-ND†	4.02	32.18	250.32	—	—
TO-220 — RoHS Compliant													
15	N-Chan.	40	8.7m	10	14	60	Single	FDP8447L-ND†	1.05	8.75	70.00	—	—
		60	0.0046	10	80	242	Single	FDP5800-ND†	1.65	13.20	99.00	—	—
		60	0.013	10	65	135	Single	FDP65N06-ND†	1.32	11.00	88.00	—	—
		60	0.0085	10	80	176	Single	FDP80N06-ND†	1.29	10.75	86.00	—	—
		60	0.017	10	52.4	121	Single	FQP50N06L-ND†	1.04	8.68	69.40	—	—
		60	0.018	10	50	120	Single	FQP50N06-ND†	1.04	8.68	69.40	—	—
		60	0.027	10	32	79	Single	FQP30N06L-ND†	.83	6.95	55.60	—	—
		60	0.1	10	15	50	Single	NDP4060-ND†	.86	7.18	57.40	—	—
		60	0.1	2.7	15	50	Single	NDP4060L-ND†	.89	7.38	59.00	—	—
		60	0.18	5	12	48	Single	MTP3055VLFS-ND†	.83	6.88	55.00	—	—
		75	0.0094	10	75	137	Single	FDP75N08A-ND†	1.35	10.80	81.00	—	—
		100	0.0072	10	75	208	TO-220	FDP090N10-ND† ***NEW!***	2.97	23.76	184.80	—	—
		150	0.033	10	45.6	210	Single	FQP46N15-ND†	1.60	12.76	95.70	—	—
		150	0.025	10	79	463	Single	FDP79N15-ND†	2.00	16.00	120.00	—	—
		200	0.12	10	18	100	TO-220	FDP18N20F-ND† ***NEW!***	1.19	9.90	79.20	—	—
		200	0.0229	10	62	260	TO-220	FDP2614-ND† ***NEW!***	4.50	36.00	270.00	—	—
		200	0.034	10	61	417	Single	FDP61N20-ND†	2.21	17.64	132.30	—	—
		200	0.041	10	52	357	Single	FDP52N20-ND†	1.89	15.12	113.40	—	—
		250	0.077	10	33	235	Single	FDP33N25-ND†	2.00	16.00	120.00	—	—
		250	0.0363	10	50	260	TO-220	FDP2710-ND† ***NEW!***	4.25	34.00	255.00	—	—
		400	0.13	10	26	265	TO-220	FDP26N40-ND† ***NEW!***	2.08	16.60	124.50	—	—
		400	0.140	10	24	227	TO-220	FDP24N40-ND† ***NEW!***	2.25	18.00	135.00	—	—
		500	0.58	10	9	147	Single	FQP9N50-ND†	1.46	12.15	97.20	—	—
		500	0.76	10	7	89	Single	FDP7N50-ND†	1.36	10.86	81.45	—	—
		500	0.55	10	6	165	Single	FDP12N50-ND†	1.48	11.82	88.65	—	—
		500	0.31	10	16	200	Single	FDP16N50-ND†	2.63	21.06	163.80	—	—
		500	0.22	10	18	235	Single	FDP18N50-ND†	2.72	21.78	169.40	—	—
		500	1.15	10	5	85	TO-220	FDP5N50-ND† ***NEW!***	.89	7.43	59.40	—	—
		600	—	—	4	—	—	495220TU-ND†	.90	6.75	50.65	—	—
		600	0.38	10	11	125	Single	FCP11N60-ND†	2.32	18.54	144.20	—	—
		600	0.19	10	20	208	Single	FCP20N60-ND†	4.01	32.04	249.20	—	—
		600	0.6	10	7	31	Single	FCP7N60-ND†	1.58	12.60	94.50	—	—
		600	1.0	10	3.9	50	Single	FCP4N60-ND†	1.62	12.92	96.90	—	—
		900	1.93	10	6	167	Single	FQP6N90C-ND†	1.31	10.90	87.20	—	—
	P-Chan.	60	0.094	10	17	79	Single	FQP17P06-ND†	.88	6.60	49.50	—	—
		60	0.055	10	27	120	Single	FQP27P06-ND†	.86	7.20	57.60	—	—
		60	26m	10	47	160	Single	FQP47P06-ND†	1.73	13.86	103.95	—	—
TO-220F — RoHS Compliant													
16	N-Chan.	60	0.008	10	53	62	Single	FQPF85N06-ND†	1.65	13.20	99.00	—	—
		150	0.025	10	79	31	Single	FDPF79N15-ND†	2.72	21.78	169.40	—	—
		200	0.041	10	52	38.5	TO-220F	FDPF52N20T-ND† ***NEW!***	1.80	14.40	108.00	—	—
		200	0.056	10	39	59	Single	FDPF39N20-ND†	1.35	10.80	81.00	—	—
		250	0.0363	10	25	62.5	Single	FDPF2710T-ND†	2.84	22.68	176.40	—	—
		250	0.077	10	20	94	Single	FDPF33N25T-ND†	1.96	15.70	117.75	—	—
		250	0.048	10	28	117	Single	FDPF51N25-ND†	2.41	19.31	150.22	—	—
		300	0.29	10	14	140	Single	FDPF14N30-ND†	1.44	12.03	96.20	—	—
		350	0.32	10	7.5	50	Single	FDPF12N35-ND†	1.10	9.20	73.60	—	—
		500	1.25	10	4.5	28	TO-220F	FDPF5N50FT-ND† ***NEW!***	1.08	8.60	64.50	—	—
		500	1.15	10	5	28	TO-220F	FDPF5N50T-ND† ***NEW!***	1.00	8.00	60.00	—	—
		500	0.65	10	11.5	42	Single	FDPF12N50FT-ND†	1.41	11.76	94.08	—	—
		500	0.55	10	6	42	Single	FDPF12N50T-ND†	1.48	11.82	88.65	—	—
		500	0.42	10	12	42	Single	FDPF13N50FT-ND†	1.38	11.00	82.50	—	—
		500	0.2	10	20	62	Single	FDPF20N50-ND†	2.85	22.77	177.10	—	—
		500	0.2	10	20	62	Single	FDPF20N50T-ND†	2.79	22.28	173.32	—	—
		500	0.22	10	18	58	Single	FDPF18N50-ND†	2.57	20.54	159.74	—	—
		500	0.22	10	18	58	Single	FDPF18N50T-ND†	2.79	22.28	173.32	—	—
		500	0.31	10	16	52	Single	FDPF16N50-ND†	2.48	19.80	154.00	—	—
		500	0.31	10	16	38.5	Single	FDPF16N50T-ND†	2.70	21.60	168.00	—	—
		500	0.43	10	13	48	Single	FQPF13N50CF-ND†	2.06	16.50	123.75	—	—
		500	0.5	10	10	143	Single	FQPF10N50CF-ND†	2.06	16.50	123.75	—	—
		500	0.9	10	7	89	Single	FDPF7N50-ND†	1.38	11.00	82.50	—	—
		600	0.19	10	20	39	Single	FCPF20N60-ND†	4.01	32.04	249.20	—	—
		600	0.22	10	16	37.9	Single	FCPF16N60-ND†	4.49	35.89	279.16	—	—
		600	0.38	10	11	36	Single	FCPF11N60-ND†	2.30	18.36	142.80	—	—
		600	0.6	10	7	31	Single	FCPF7N60-ND†	1.88	15.00	112.50	—	—
		600	0.6	10	9	169	Single	FQPF10N60CF-ND†	2.06	16.50	123.75	—	—
		800	1.29	10	8	59	Single	FQPF8N80CYDTU-ND†	2.20	17.60	132.00	—	—
		800	2.1	10	5.5	51	Single	FQPF6N80CT-ND	1.62	12.92	96.90	—	—
		800	2.5	10	5.5	51	Single	FQPF6N80C-ND†	1.15	9.55	76.40	—	—
TO252-4L — RoHS Compliant													
17	N-Chan. P-Chan.	40	24m 30m	10 4.5	9 7	3.1 1.3	Dual	FDD8424HCT-ND	.97	7.25	54.34	FDD8424HTR-ND	784.88/2,500
SC75-6 — RoHS Compliant													
18	N-Chan.	20	0.035	4.5	5.5	1.6	Single	FDJ128NCT-ND	.99	8.25	66.00	FDJ128NTR-ND	1287.00/3,000
	P-Chan.	20	0.07	4.5	4.2	1.6	Single	FDJ129PCT-ND	.99	8.25	66.00	FDJ129PTR-ND	1287.00/3,000
SC70-6 — RoHS Compliant													
19	P-Chan.	20	0.073	4.5	2.6	0.75	Single	FDG332PZCT-ND	.49	3.94	27.00	FDG332PZTR-ND	384.00/3,000
	N-Chan.	25	2.6	4.5	0.22	0.3	Dual	FDG6301NCT-ND	.40	3.20	24.00	FDG6301NTR-ND	324.00/3,000
	N-Chan.	30	0.4	4.5	0.75	0.36	Dual	FDG8850NZCT-ND	.60	4.50	33.75	FDG8850NZTR-ND	585.00/3,000
	N-Chan. P-Chan.	30 25	0.4 1.1	4.5 4.5	0.75 0.41	0.36 0.3	Dual	FDG8842CZCT-ND	.60	4.50	33.75	FDG8842CZTR-ND	585.00/3,000
	N-Chan.	60	1.6	5	1.43	0.2	SC70-6	2N7002DWCT-ND ***NEW!***	.14	1.20	9.60	2N7002DWTR-ND ***NEW!***	187.20/3,000
SC89-6 — RoHS Compliant													
20	N-Chan. P-Chan.	20 20	0.3 0.5	4.5 4.5	0.6 0.35	0.625	Dual	FDY4000CZCT-ND	.46	3.68	25.20	FDY4000CZTR-ND	357.00/3,000
	N-Chan. P-Chan.	20 20	5 (max) 8 (max)	4.5 4.5	0.2 0.15	0.625	Dual	FDY4001CZCT-ND	.42	3.41	23.40	FDY4001CZTR-ND	331.50/3,000
8-SOP — RoHS Compliant													
21	N-Chan.	400	3.2	10	0.45	2.0	Dual	FQS4901TFCT-ND	.83	6.95	55.60	FQS4901TFTR-ND	1084.20/3,000
8-TSSOP — RoHS Compliant													
22	N-Chan. P-Chan.	20 20	0.014 0.028	4.5 4.5	6 4.4	1	Compl.	FDW2520CCT-ND	.99	8.28	66.20	FDW2520CTR-ND	1075.75/2,500
	P-Chan.	12	0.015	4.5	6	1.6	Dual	FDW2508PBCT-ND	.89	6.71	50.33	FDW2508PBTR-ND	727.03/2,500
I-PAK (TO-251AA)													
23	N-Chan.	20	0.0066	10	35	49.5	Single	FDU8580-ND◆†	.66	4.95	37.13	—	—
		20	0.004	10	35	77	Single	FDU8586-ND◆†	.85	6.36	47.70	—	—

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk ‡ Tube § See data sheet for pin out *(Continued)*

Multiple pinout configurations available, see Digi-Key web site for data sheet.

Fig. 25 — MLP 3.3x3.3

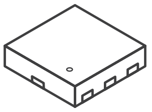

Fig. 26 — MLP 3x3

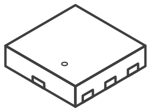

Fig. 27 — 9-BGA

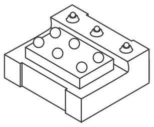

Fig. 28 — 12-BGA

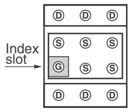

Fig. 29 — BGA 2.5 x 4.0

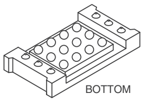

Fig. 30 — FLFBGA 3.5 x 4.0

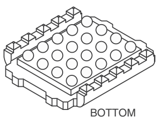

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Fig.	Type	V_{DS} (V)	R_{DS} (on) Ω	@ Volt.	I_D (A)	P_D (W)	Config. or Package	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing
23	N-Chan.	25	0.0033	10	35	115	Single	FDU8770-ND◆†	1.17	9.75	78.00	—	—
		25	0.0065	10	35	50	Single	FDU8780-ND◆†	.55	4.11	30.83	—	—
		25	0.0045	10	35	88	SynoFET	FDU8796-ND◆†	.84	6.30	47.25	—	—
		25	0.0116	10	35	39	Single	FDU8778-ND◆†	.48	3.60	27.00	—	—
		25	0.0085	10	35	50	Single	FDU8782-ND◆†	.64	4.80	36.00	—	—
		50	0.1	10	14	48	Single	RFD14N05-ND◆†	.76	5.70	42.75	—	—
		50	0.047	10	16	72	Single	RFD16N05-ND◆†	.85	7.10	56.80	—	—
		50	0.1	2.5	14	48	Single	RFD14N05L-ND◆†	.78	5.82	43.65	—	—
		60	0.107	2.5	11	3	Single	RFD3055LE-ND◆†	.76	5.73	42.98	—	—
		200	0.8	10	4.6	50	Single	IRFU220FS-ND†	.78	6.54	52.32	—	—
		400	2.8	10	2.0	30	Single	FDU3N40TU-ND◆†	.68	5.10	38.25	—	—
		600	0.81	10	4.6	54	Single	FCU5N60TU-ND◆†	1.41	11.30	84.75	—	—
		600	2.8	10	2.4	50	Single	FQU3N60CTU-ND◆†	.89	7.40	59.20	—	—
		600	0.53	10	7	83	Single	FCU7N60TU-ND◆†	1.73	13.80	103.50	—	—
	P-Chan.	60	0.11	10	12	2.5	Single	FQU17P06TU-ND◆†	.84	6.27	47.03	—	—
I^2-PAK — RoHS Compliant													
23	N-Chan.	250	0.077	10	33	235	Single	FDI33N25TU-ND†	2.10	16.80	126.00	—	—
		250	0.22	10	15.6	3.13	Single	FQI16N25CTU-ND†	1.49	12.38	99.00	—	—
		900	2.7	10	4.2	140	Single	FQI4N90TU-ND†	1.47	12.25	98.00	—	—
MLP 5x6 — RoHS Compliant													
24	N-Chan.	30	0.004	10	35	50	SynoFET	FDMS8672SCT-ND	1.01	8.40	67.20	FDMS8672STR-ND	1310.40/3,000
		30	0.0028	10	42	78	SynoFET	FDMS8670SCT-ND	1.20	9.98	79.80	FDMS8670STR-ND	1556.10/3,000
		30	0.0074	10	14	2.8	Single	FDMS8690CT-ND	1.38	11.00	82.50	FDMS8690TR-ND	2112.00/3,000
		30	0.0019	10	40	83	SynoFET	FDMS8660SCT-ND	1.45	11.60	87.00	FDMS8660STR-ND	2227.20/3,000
		30	21.5m	10	7.5	2.5	Dual	FDMS9620SCT-ND	.82	6.83	54.60	FDMS9620STR-ND	1064.70/3,000
		60	0.0094	10	22	78	Single	FDMS5672CT-ND	1.37	10.92	81.90	FDMS5672TR-ND	2096.64/3,000
		80	0.0135	10	22	78	Single	FDMS3572CT-ND	1.26	10.08	75.60	FDMS3572TR-ND	1935.36/3,000
		100	0.019	10	22	78	Single	FDMS3672CT-ND	1.47	11.76	88.20	FDMS3672TR-ND	2257.92/3,000
		150	0.036	10	4.5	2.8	Single	FDMS2572CT-ND	1.65	13.20	99.00	FDMS2572TR-ND	2534.40/3,000
		200	0.064	10	20	78	Single	FDMS2672CT-ND	1.58	12.60	94.50	FDMS2672TR-ND	2419.20/3,000
		250	0.105	10	14	78	Single	FDMS2734CT-ND	1.58	12.60	94.50	FDMS2734TR-ND	2419.20/3,000
MLP 3.3x3.3 — RoHS Compliant													
25	N-Chan.	20	0.0036	10	16.5	41	Single	FDMC8554CT-ND	1.04	8.66	69.30	FDMC8554TR-ND	1351.35/3,000
		20/ 20	0.058/ 0.067	4.5	4	1.92/ 1.78	Dual	FDMC6890NZCT-ND	.79	6.56	52.50	FDMC6890NZTR-ND	1023.75/3,000
		30	0.0096	10	16.5	31	Single	FDMC8878CT-ND	.92	6.93	51.98	FDMC8878TR-ND	900.90/3,000
		60	0.084	10	5.7	6	Single	FDMC5614PCT-ND	.96	8.00	64.00	FDMC5614PTR-ND	1248.00/3,000
		150	1.1	10	3	25	Single	FDMC2523PCT-ND	.78	6.50	52.00	FDMC2523PTR-ND	1014.00/3,000
		200	0.175	10	9.5	42	Single	FDMC2610CT-ND	1.01	8.40	67.20	FDMC2610TR-ND	1310.40/3,000
		220	0.305	10	1	2.4	Single	FDMC2674CT-ND	1.05	8.75	70.00	FDMC2674TR-ND	1365.00/3,000
MLP 3x3 — RoHS Compliant													
26	N-Chan.	30	5.7m	10	15	2.0	Single	FDMC8854CT-ND	1.49	12.38	99.00	FDMC8854TR-ND	1930.50/3,000
—	N-Chan.	100	0.06	10	4.4	2.1	Single	FDM3622CT-ND§	1.11	9.25	74.00	FDM3622TR-ND§	1443.00/3,000
		30	0.0105	10	11.5	2.1	Single	FDM6296CT-ND§	.90	7.50	60.00	FDM6296TR-ND§	1170.00/3,000
9-BGA — RoHS Compliant													
27	P-Chan.	20	0.031	4.5	4.6	1.7	Single	FDZ291PCT-ND	.56	4.20	31.50	FDZ291PTR-ND	1750.00/10,000
		20	0.036	4.5	4.6	1.7	Single	FDZ493PCT-ND	.80	5.97	44.78	FDZ493PTR-ND	776.10/3,000
12-BGA — RoHS Compliant													
28	N-Chan.	60	0.06	5	4	2	Single	FDZ209NCT-ND	1.32	11.00	88.00	FDZ209NTR-ND	1716.00/3,000
BGA 2.5x4.0 — RoHS Compliant													
29	N-Chan.	30	8.5m	10	11	2.1	Single	FDZ7296CT-ND	1.14	9.50	76.00	FDZ7296TR-ND	1482.00/3,000
—	N-Chan.	20	0.018	4.5	9	2	Single	FDZ201NCT-ND§	.93	7.75	62.00	FDZ201NTR-ND§	1209.00/3,000
FLFBGA 3.5x4.0 — RoHS Compliant													
30	N-Chan.	30	0.0018	10	25	2.5	SyncFET	FDZ4670SCT-ND ***NEW!***	1.86	15.50	124.00	FDZ4670STR-ND ***NEW!***	2418.00/3,000
		30	2.5m	10	25	2.5	Single	FDZ4670CT-ND	1.35	11.25	90.00	FDZ4670TR-ND	1755.00/3,000
MicroFET 2x2 — RoHS Compliant													
31	N-Chan.	20	0.037	4.5	3.7	1.4	Dual	FDMA1028NZCT-ND	.52	3.90	29.25	FDMA1028NZTR-ND	507.00/3,000
		20	0.037	4.5	3.7	1.4	Mosfet w/ Diode	FDFMA2N028ZCT-ND	.55	4.10	30.71	FDFMA2N028ZTR-ND	532.35/3,000
		30	0.075	4.5	2.9	1.5	Dual	FDMA2002NZCT-ND	.60	4.50	33.75	FDMA2002NZTR-ND	585.00/3,000
		30	0.075	4.5	2.9	1.5	—	FDFMA3N109CT-ND	.48	3.60	27.00	FDFMA3N109TR-ND	468.00/3,000
	P-Chan.	20	0.06	4.5	3.1	1.4	Dual	FDMA1029PZCT-ND	.56	4.20	31.50	FDMA1029PZTR-ND	546.00/3,000
		20	0.06	4.5	3.7	1.5	Dual	FDMA1023PZCT-ND	.59	4.41	33.08	FDMA1023PZTR-ND	573.30/3,000
		-20	0.027	-4.5	-7.8	2.4	Single	FDMA510PZCT-ND ***NEW!***	.58	4.83	38.60	FDMA510PZTR-ND ***NEW!***	752.70/3,000
		20	0.036	4.5	6.6	2.4	Single	FDMA291PCT-ND	.54	4.05	30.38	FDMA291PTR-ND	526.50/3,000
		20	0.026	4.5	7.3	2.4	Single	FDMA520PZCT-ND	.55	4.10	30.71	FDMA520PZTR-ND	532.35/3,000
		20	0.088	4.5	3.1	1.4	Dual	FDMA1025PCT-ND	.55	4.10	30.71	FDMA1025PTR-ND	532.35/3,000
		20	0.09	4.5	2.2	1.4	Dual	FDMA1027PCT-ND	.87	6.51	48.83	FDMA1027PTR-ND	846.00/3,000
		20	0.09	4.5	3	1.4	Mosfet w/ Diode	FDFMA2P857CT-ND	.78	5.85	43.88	FDFMA2P857TR-ND	760.50/3,000
		20	0.06	4.5	3.1	1.4	Mosfet w/ Diode	FDFMA2P029ZCT-ND	.55	4.10	30.71	FDFMA2P029ZTR-ND	532.35/3,000
		30	0.03	10	6.8	2.4	Single	FDMA530PZCT-ND	.59	4.41	33.08	FDMA530PZTR-ND	573.30/3,000
	N-Chan. P-Chan.	20 20	0.037 0.06	4.5 4.5	3.7 3.1	1.4 1.4	Compl.	FDMA1032CZCT-ND	.56	4.20	31.50	FDMA1032CZTR-ND	546.00/3,000
MicroFET 3.0x1.9 — RoHS Compliant													
32	P-Chan.	20	35m	4.5	6.1	1.9	Single	FDMB668PCT-ND	.59	4.41	33.08	FDMB668PTR-ND	573.30/3,000
MicroFET SC-75 — RoHS Compliant													
33	P-Chan.	20	0.093	4.5	2.9	1.4	Dual	FDMJ1023PZCT-ND	.94	7.02	52.65	FDMJ1023PZTR-ND	912.60/3,000
8-WLCSP (BGA 2x2) — RoHS Compliant													
34	P-Chan.	20	0.066	4.5	3	1.5	Single	FDZ193PCT-ND	.53	3.94	29.54	FDZ193PTR-ND	837.04/5,000
		20	0.067	4.5	3	1.5	Single	FDZ191PCT-ND	.52	3.90	29.25	FDZ191PTR-ND	828.75/5,000
NEW! Power 33 — RoHS Compliant NEW!													
35	N-Chan.	30	4.7m	10	18	41	Power 33	FDMC8676CT-ND	.71	5.88	47.00	FDMC8676TR-ND	1755.00/3,000
		30	4.3m	10	18	41	Power 33	FDMC8678SCT-ND	1.35	11.25	90.00	FDMC8678STR-ND	1755.00/3,000
Power 56 — RoHS Compliant													
36	N-Chan.	30	1.6m	10	49	83	Power 56	FDMS8662CT-ND ***NEW!***	1.75	14.00	105.00	FDMS8662TR-ND ***NEW!***	2688.00/3,000
		30	1.7m	10	49	104	Power 56	FDMS8660ASCT-ND ***NEW!***	1.75	14.00	105.00	FDMS8660ASTR-ND ***NEW!***	2496.00/3,000
		30	2.4m	10	42	50	Power 56	FDMS8670ASCT-ND ***NEW!***	1.38	11.00	82.50	FDMS8670ASTR-ND ***NEW!***	1920.00/3,000
		30	0.004	10	28	70	Power 56	FDMS8672ASCT-ND ***NEW!***	1.20	10.00	80.00	FDMS8672ASTR-ND ***NEW!***	1716.00/3,000
		30	4.1m	10	21	78	Power 56	FDMS8674CT-ND ***NEW!***	1.20	10.00	80.00	FDMS8674TR-ND ***NEW!***	1560.00/3,000
		30	0.0055	10	35	50	Single	FDMS8680CT-ND	.80	6.63	53.00	FDMS8680TR-ND	1035.00/3,000
		30	0.007	10	28	41	Single	FDMS8692CT-ND	.75	6.25	50.00	FDMS8692TR-ND	975.00/3,000
		40	2.0m	10	49	104	Power 56	FDMS8460CT-ND ***NEW!***	2.00	16.00	120.00	FDMS8460TR-ND ***NEW!***	3072.00/3,000

◆ ***RoHS Compliant*** ▲ Tape and Box † Bulk ‡ Tube § See data sheet for pin out

Multiple pinout configurations available, see Digi-Key web site for data sheet.

Fig. 31 — MicroFET 2x2

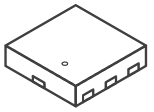

Fig. 32 — MicroFET 3.0 x 1.9

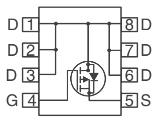

Fig. 33 — MicroFET SC-75

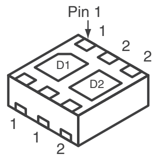

Fig. 34 — 8-WLCSP (BGA 2x2)

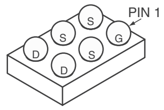

Fig. 35 — Power 33 *NEW!*

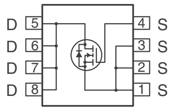

Fig. 36 — Power 56

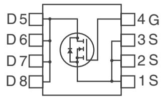

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

FAIRCHILD SEMICONDUCTOR®

Surface Mount and Through-Hole Power IGBTs

Fairchild's IGBT's are designed to replace 500V/600V MOSFETs in switch mode power supply (SMPS), Power Factor Correction (PFC) and other high-power applications without redesign of the gate drive voltage circuitry. SMPS IGBT's are the first-in-class to have full unclamped inductive switching (UIS) capability similar to power MOSFETs, allowing application in all power circuit topologies, including single-switch forward converters. The gate drive voltage requirement has been reduced to 8-10V, allowing for the replacement of larger die-size power MOSFETs or multiple MOSFETs in parallel.

Fig.	V_{CES} (V)	I_C (A)	I_{CM} (A)	P_D (W)	Digi-Key Part No.	Price Each 1	10	100	Fairchild Part No.
1	1,200	30	45	186	FGA15N120ANTDTU-ND	2.79	2.24	1.74	FGA15N120ANTDTU
	1,200	50	75	312	FGA25N120ANTDTU-ND	3.60	2.88	2.24	FGA25N120ANTDTU
2	1,200	15	45	220	FGA15N120FTDTU-ND ***NEW!***	3.47	2.78	2.16	FGA15N120FTDTU
	1,200	20	60	298	FGA20N120FTDTU-ND ***NEW!***	3.83	3.06	2.38	FGA20N120FTDTU
1	600	40	160	160	FGA40N60UFDTU-ND	3.56	2.85	2.22	FGA40N60UFDTU
	300	40	160	201	FGA70N30TTU-ND ***NEW!***	3.92	3.14	2.44	FGA70N30TTU
	300	90	220	219	FGA90N30DTU-ND	2.97	2.38	1.85	FGA90N30DTU
	300	90	220	219	FGA90N30TU-ND	2.70	2.16	1.68	FGA90N30TU
	300	120	300	290	FGA120N30DTU-ND	3.74	2.99	2.33	FGA120N30DTU
	300	180	450	480	FGA180N30DTU-ND	5.20	4.16	3.24	FGA180N30DTU
2	1,200	35	80	298	HGT1S10N120BNSTCT-ND†	2.84	2.27	1.77	HGT1S10N120BNST
	1,200	35	80	298	HGT1S10N120BNSTTR-ND‡		1310.40/800		HGT1S10N120BNST
3	400	21	—	150	FGB3040CSCT-ND†	2.41	1.93	1.45	FGB3040CS
	400	21	—	150	FGB3040CSTR-ND‡		1040.00/800		FGB3040CS
4	600	75	180	290	FGP40N6S2-ND	5.04	4.04	3.14	FGP40N6S2
5	600	300	600	892	FMG2G300LS60E-ND	106.32	99.24	92.15	FMG2G300LS60E
6	600	400	800	1136	FMG2G400LS60-ND	154.65	144.34	134.03	FMG2G400LS60
7	1,200	64	120	500	FGL40N120ANDTU-ND	10.41	9.38	8.32	FGL40N120ANDTU
	1,200	64	160	500	FGL40N120ANTU-ND	7.54	6.04	5.09	FGL40N120ANTU
8	600	45	108	167	FGH30N6S2D-ND	4.23	3.39	2.64	FGH30N6S2D
	600	60	90	480	FGH30N60LSDTU-ND	9.57	7.66	6.46	FGH30N60LSDTU
	300	75	240	463	FGH50N3-ND	6.00	4.80	4.05	FGH50N3
	600	75	240	463	FGH50N6S2-ND	8.24	6.60	5.57	FGH50N6S2
	600	75	240	463	FGH50N6S2D-ND	9.45	8.51	7.55	FGH50N6S2D
	600	80	160	290	FGH80N60FDTU-ND ***NEW!***	4.00	3.20	2.40	FGH80N60FDTU
	600	80	160	290	FGH80N60FD2TU-ND ***NEW!***	5.49	4.40	3.42	FDH80N60FD2TU
	1,200	35	80	298	HGTG10N120BND-ND	3.97	3.18	2.47	HGTG10N120BND
	600	54	96	167	HGTG12N60A4-ND	2.93	2.34	1.82	HGTG12N60A4
	600	54	96	167	HGTG12N60A4D-ND	3.49	2.79	2.17	HGTG12N60A4D
	1,200	54	160	390	HGTG18N120BND-ND	5.25	4.20	3.55	HGTG18N120BND
	600	70	280	290	HGTG20N60A4-ND	4.28	3.42	2.66	HGTG20N60A4
	600	70	280	290	HGTG20N60A4D-ND	5.18	4.14	3.22	HGTG20N60A4D
	600	40	160	165	HGTG20N60B3D-ND	4.14	3.32	2.58	HGTG20N60B3D
	600	75	240	463	HGTG30N60A4-ND	6.43	5.15	4.35	HGTG30N60A4
	600	60	240	463	HGTG30N60A4D-ND	6.97	5.58	4.71	HGTG30N60A4D
	600	60	220	208	HGTG30N60B3D-ND	5.78	4.63	3.91	HGTG30N60B3D
	600	63	252	208	HGTG30N60C3D-ND	5.46	4.37	3.69	HGTG30N60C3D
	600	75	300	625	HGTG40N60A4-ND	9.00	8.11	7.19	HGTG40N60A4
	600	34	56	125	HGTG7N60A4D-ND	2.25	1.80	1.40	HGTG7N60A4D
9	300	70	160	49.2	FGPF70N30TDTU-ND	2.38	1.90	1.43	FGPF70N30TDTU
	300	70	160	49.2	FGPF70N30TTU-ND	1.73	1.39	1.04	FGPF70N30TTU
	300	160	—	52	FGPF70N30-ND	1.63	1.30	.98	FGPF70N30
	300	30	80	46	FGPF30N30DTU-ND	1.68	1.34	1.01	FGPF30N30DTU
	300	30	80	44.6	FGPF30N30TTU-ND	1.44	1.20	.96	FGPF30N30TTU
	300	80	—	46	FGPF30N30-ND	1.32	1.10	.88	FGPF30N30
	300	220	—	56.8	FGPF90N30-ND	1.97	1.58	1.19	FGPF90N30
	450	30	120	50.4	FGPF30N45TTU-ND ***NEW!***	1.75	1.40	1.05	FGPF30N45TTU
	450	45	180	51.6	FGPF45N45TTU-ND ***NEW!***	2.00	1.60	1.20	FGPF45N45TTU
	300	30	120	46.8	FGPF50N30TTU-ND ***NEW!***	1.48	1.18	.89	FGPF50N30TTU
	600	14	21	45	FGPF7N60LSDTU-ND	1.45	1.16	.87	FGPF7N60LSDTU
	600	14	21	41	FGPF7N60RUFDTU-ND	1.38	1.15	.92	FGPF7N60RUFDTU
	300	120	180	60	FGPF120N30TU-ND	5.51	4.41	3.43	FGPF120N30TU
	1,500	5	20	50	SGS5N150UFTU-ND	2.86	2.29	1.78	SGS5N150UFTU
10	400	7	29	29	FGD2N40LCT-ND†	.78	.65	.52	FGD2N40L
	400	7	29	29	FGD2N40LTR-ND‡		841.75/2,500		FGD2N40L
					SMPS IGBTs				
11	600	70	280	290	HGT1S20N60A4S9A-ND	4.14	3.32	2.58	HGT1S20N60A4S9A
4	600	54	96	167	HGTP12N60A4D-ND	2.70	2.16	1.68	HGTP12N60A4D
	600	54	96	167	HGTP12N60A4-ND	2.25	1.80	1.40	HGTP12N60A4
	600	70	280	290	HGTP20N60A4-ND	3.83	3.06	2.38	HGTP20N60A4
	600	17	40	70	HGTP3N60A4D-ND	1.50	1.20	.90	HGTP3N60A4D
	600	17	40	70	HGTP3N60A4-ND	1.14	.95	.76	HGTP3N60A4
	600	34	56	125	HGTP7N60A4D-ND	1.88	1.50	1.13	HGTP7N60A4D
	600	34	56	125	HGTP7N60A4-ND	1.50	1.20	.90	HGTP7N60A4

† Cut Tape ‡ Tape and Reel

Ignition IGBTs

Fairchild ignition IGBTs are the next generation that offers outstanding SCIS capability in the space saving D-PAK (TO-252) as well as the industry standard D2-Pak (TO-263), TO-262 and TO-220 plastic packages. This device is intended for use in automotive ignition circuits, specifically as a coil driver. Internal diodes provide voltage clamping without the need for external components.

Fig.	BV_{CER} (V)	BV_{ECS} (V)	I_{C25} (A)	P_D (W)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
11	430	24	10	130	ISL9V2040S3STCT-ND	1.98	1.58	1.19	ISL9V2040S3STTR-ND	800	853.20
	430	24	21	150	ISL9V3040S3STCT-ND	2.23	1.78	1.34	ISL9V3040S3STTR-ND	800	961.20
	390	24	46	250	ISL9V5036S3STCT-ND	3.62	2.90	2.26	ISL9V5036S3STTR-ND	800	1674.40
4	430	24	21	150	ISL9V3040P3-ND†	2.25	1.80	1.40	—	—	—
	390	24	46	250	ISL9V5036P3-ND†	2.20	1.76	1.32	—	—	—
12	390	24	46	250	ISL9V5036S3-ND†	2.23	1.78	1.34	—	—	—
13	430	24	10	130	ISL9V2040D3STCT-ND	1.78	1.42	1.07	ISL9V2040D3STTR-ND	2,500	908.80/M
	430	21	21	150	ISL9V3040D3STCT-ND	2.35	1.88	1.41	ISL9V3040D3STTR-ND	2,500	1203.20/M

† Bulk

Fig. 1 — TO-3P

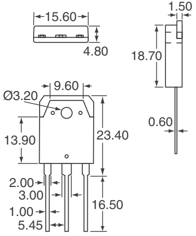

Fig. 2 — TO-3PN ***NEW!***

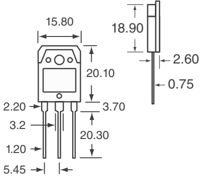

Fig. 3 — TO263-6

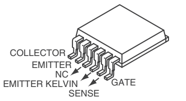

Fig. 4 — TO-220AB

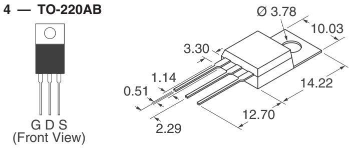

Fig. 5 — 7PM-HA

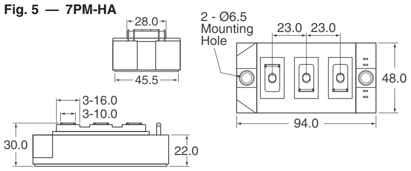

Fig. 6 — 7PM-IA

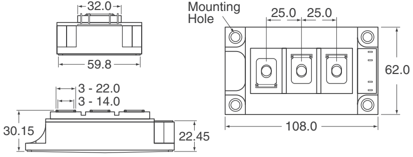

Fig. 7 — TO-264

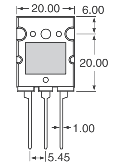

Fig. 8 — TO-247

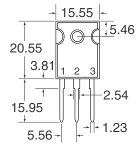

Fig. 9 — TO-220F

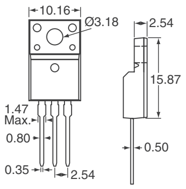

Fig. 10 — D-PAK

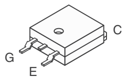

Fig. 11 — TO-263AB

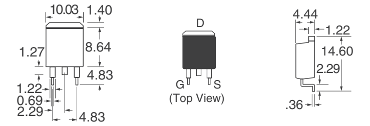

Fig. 12 — TO-262AA

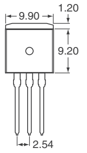

Fig. 13 — TO-252AA

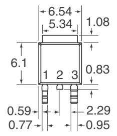

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

FAIRCHILD SEMICONDUCTOR®

Diodes

Digi-Reel®

Fig. 1

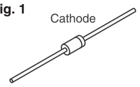

Fig. 2

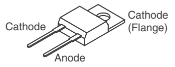

Fig. 3

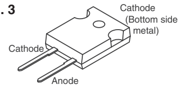

Fig. 4

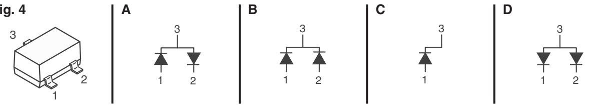

Fig. 5

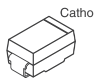

Fig. 6

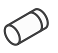

Fig. 7

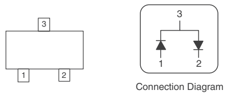

Fig. 8

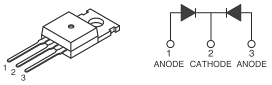

Fig. 9 *NEW!*

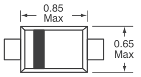

Fig.	Max. Reverse Voltage (V)	Max. Average Rectified Current (A)	Package	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel§ Qty.	Tape & Reel§ Pricing
1	20	1	DO-41	1N5817FSCT-ND◆	.37	2.75	19.08	5,000	66.06/M
	30	1	D0-41	1N5818FSCT-ND◆	.38	2.84	19.66	5,000	68.00/M
	40	1	DO-41	1N5819FSCT-ND◆	.37	2.75	19.08	5,000	66.06/M
	50	0.2	DO-35	1N4454CT-ND◆	.06	.43	3.12	10,000	8.16/M
	50	0.2	DO-35	1N4150CT-ND◆	.10	.72	5.20	10,000	13.60/M
	50	4	DO-35	1N4150-ND◆‡	.10	.72	5.20	—	—
	50	1	DO-41	1N4001FSCT-ND◆	.09	.70	5.07	5,000	15.60/M
	50	3	DO-201AD	1N5400FSCT-ND◆	.35	2.63	18.20	1,250	77.00/M
	70	0.2	DO-35	1N457ACT-ND◆	.10	.77	5.53	10,000	14.45/M
	70	0.2	DO-35	1N457CT-ND◆	.10	.77	5.53	10,000	14.45/M
	100	0.2	DO-35	1N914BCT-ND◆	.05	.39	2.80	10,000	7.31/M
	100	0.2	DO-35	1N914CT-ND◆	.05	.39	2.80	10,000	7.31/M
	100	0.2	DO-35	1N4148TACT-ND◆▲	.04	.32	2.28	5,000	7.00/M
	100	0.2	DO-35	1N4448CT-ND◆	.06	.43	3.12	10,000	8.16/M
	100	0.2	DO-35	1N4148FS-ND◆‡	.04	.32	2.28	—	—
	100	0.2	DO-35	1N4148FSTR-ND◆	—	—	—	10,000	5.95/M
	100	1	DO-41	1N4002FSCT-ND◆	.09	.70	5.07	5,000	15.60/M
	100	3	DO-201AD	1N5401FSCT-ND◆	.35	2.63	18.20	1,250	77.00/M
	100	1	DO-35	1N914ACT-ND◆	.05	.39	2.80	10,000	7.00/M
	100	1	DO-35	1N914B-ND◆‡	.05	.39	2.80	—	—
	125	0.2	DO-35	FDH333-ND◆‡	.15	1.15	8.32	—	—
	150	0.2	DO-35	1N3595CT-ND◆	.13	.95	6.83	10,000	17.85/M
	200	1	DO-41	1N4003FSCT-ND◆	.09	.70	5.07	5,000	15.60/M
	200	3	DO-201AD	1N5402FSCT-ND◆	.35	2.63	18.20	1,250	77.00/M
	400	1	D0-41	1N4004FSCT-ND◆	.09	.70	5.07	5,000	16.00/M
	600	1	DO-41	1N4005FSCT-ND◆	.09	.70	5.07	5,000	15.60/M
	800	1	DO-41	1N4006FSCT-ND◆	.09	.70	5.07	5,000	15.60/M
	1,000	1	DO-41	1N4007FSCT-ND◆	.09	.70	5.07	5,000	15.60/M
	1,000	1	DO-41	UF4007CT-ND◆	.26	1.95	13.52	5,000	46.80/M
	30	1	DO-35	FJH1100-ND◆‡	5.00	40.00	337.50	—	—
2	600	8	TO-220AC	ISL9R860P2-ND◆‡	.95	7.88	63.00	—	—
	600	8	TO-220AC	RHRP860-ND◆‡	.87	7.25	58.00	—	—
	600	8	TO-220AC	RURP860-ND◆‡	.87	7.25	58.00	—	—
	600	8	TO-220AC	FFP08S60STU-ND◆‡	.87	7.23	57.80	—	—
	600	15	TO-220AC	ISL9R1560P2-ND◆‡	1.32	10.54	79.07	—	—
	600	15	TO-220AC	RHRP1560-ND◆‡	1.41	11.78	94.20	—	—
	600	15	TO-220AC	RURP1560-ND‡	1.47	12.25	98.00	—	—
	600	30	TO-220AC	ISL9R3060P2-ND◆‡	2.45	19.62	152.60	—	—
	600	30	TO-220AC	RURP3060-ND◆‡	1.79	14.28	107.10	—	—
	1,000	8	TO-220AC	RURP8100-ND◆‡	1.00	8.30	66.40	—	—
	1,200	8	TO-220AC	RHRP8120-ND◆‡	.99	8.25	66.00	—	—
	1,200	30	TO-220AC	RHRP30120-ND◆‡	1.90	15.20	114.00	—	—
3	200	30	TO-247	RURG3020CC-ND◆‡	3.21	25.70	199.92	—	—
	600	30	TO-247	ISL9R3060G2-ND◆‡	2.85	22.78	177.14	—	—
	600	30	TO-247	RHRG3060-ND◊◆‡	2.36	18.90	141.75	—	—
	600	30	TO-247	RURG3060CC-ND◆‡	3.42	27.36	212.80	—	—
	600	30	TO-247	RURG3060-ND◆‡	2.21	17.64	132.30	—	—
	600	50	TO-247	RURG5060-ND◆‡	3.31	26.46	205.80	—	—
	600	80	TO-247	RURG8060-ND◆‡	4.88	39.01	303.38	—	—
	1,000	80	TO-247	RURG80100-ND◆‡	4.54	36.29	282.24	—	—
	1,200	30	TO-247	RHRG30120-ND◆‡	2.32	18.52	144.06	—	—
	1,200	75	TO-247	RHRG75120-ND◆‡	4.25	34.02	264.60	—	—
4A	30	0.2	SOT-23	BAR43SCT-ND◆	.19	1.40	10.08	3,000	36.43/M
	30	0.2	SOT-23	BAT54SFSCT-ND◆	.13	.99	7.15	3,000	25.85/M
	70	0.2	SOT-23	BAV99FSCT-ND◆	.13	.95	6.83	3,000	24.68/M
	100	0.2	SOT-23	MMBD1203CT-ND◆	.16	1.19	8.58	3,000	31.02/M
	100	0.2	SOT-23	MMBD4148SECT-ND◆	.18	1.33	9.62	3,000	34.78/M
	100	0.2	SOT-23	MMBD7000FSCT-ND◆	.16	1.17	8.45	3,000	30.55/M
	120	0.2	SOT-23	BAS31FSCT-ND◆	.14	1.08	7.80	3,000	28.20/M
4A	200	0.2	SOT-23	MMBD1403CT-ND◆	.17	1.28	9.23	3,000	33.37/M
	200	0.2	SOT-23	MMBD1503ACT-ND◆	.19	1.42	10.27	3,000	37.13/M
	200	0.2	SOT-23	MMBD1504ACT-ND◆	.19	1.42	10.27	3,000	37.13/M
	250	0.2	SOT-23	BAV23SFSCT-ND◆	.18	1.33	9.62	3,000	34.78/M
4B	30	0.2	SOT-23	BAT54CFSCT-ND◆	.13	.99	7.15	3,000	25.85/M
	50	0.2	SOT-23	BAV74FSCT-ND◆	.13	.98	7.09	3,000	25.62/M
	70	0.2	SOT-23	BAV70FSCT-ND◆	.13	.98	7.09	3,000	25.62/M
	100	0.2	SOT-23	MMBD1204CT-ND◆	.17	1.26	9.10	3,000	32.90/M
	100	0.2	SOT-23	MMBD4148CCCT-ND◆	.18	1.33	9.62	3,000	34.78/M
4C	30	0.2	SOT-23	BAT54FSCT-ND◆	.12	.88	6.37	3,000	23.03/M
	85	0.2	SOT-23	BAS16FSCT-ND◆	.11	.86	6.18	3,000	22.33/M
	100	0.2	SOT-23	MMBD4148FSCT-ND◆	.11	.81	5.85	3,000	21.15/M
	100	0.2	SOT-23	MMBD914FSCT-ND◆	.13	.99	7.15	3,000	25.85/M
	200	0.2	SOT-23	MMBD1501ACT-ND◆	.15	1.11	8.00	3,000	29.00/M
	250	0.2	SOT-23	BAS21FSCT-ND◆	.13	.99	7.15	3,000	25.85/M
4D	30	0.2	SOT-23	BAT54AFSCT-ND◆	.13	.99	7.15	3,000	26.00/M
	85	0.2	SOT-23	BAW56FSCT-ND◆	.14	1.08	7.80	3,000	28.20/M
	200	0.2	SOT-23	MMBD1505ACT-ND◆	.19	1.42	10.27	3,000	37.13/M
5	20	0.5	SOD-123	MBR0520LCT-ND◆	.28	2.07	14.95	3,000	54.05/M
	30	2	SMB	SS23CT-ND◆	.47	3.83	26.28	3,000	124.10/M
	40	1	SMA	SS14CT-ND◆	.40	3.13	22.00	7,500	85.00/M
	40	2	SMB	SS24FSCT-ND◆	.47	3.83	26.28	3,000	124.00/M
	40	3	SMC	MBRS340FSCT-ND◆	.50	3.75	28.13	3,000	162.50/M
	50	1	SMA	S1AFSCT-ND◆	.24	1.80	13.00	7,500	40.00/M
	60	2	SMB	SS26FSCT-ND◆	.41	3.28	24.60	3,000	110.70/M
	100	1	SMA	S1BFSCT-ND◆	.24	1.80	13.00	7,500	40.00/M
	100	1	SMA	EGF1BCT-ND◆	.41	3.31	22.68	7,500	100.80/M
	100	1	SMA	S100CT-ND◆	.43	3.42	25.62	7,500	111.02/M
	100	3	SMC	S3BFSCT-ND◆	.38	3.09	21.17	3,000	100.00/M
	200	1	SMA	ES1DFSCT-ND◆	.35	2.65	18.36	7,500	63.54/M
	200	2	SMB	ES2DFSCT-ND◆	.40	3.11	21.91	3,000	89.64/M
	200	3	SMC	ES3DFSCT-ND◆	.41	3.28	24.60	3,000	110.70/M
	300	1	SMA	ES1FCT-ND◆	.32	2.40	16.64	7,500	57.60/M
	400	1	SMA	S1GFSCT-ND◆	.24	1.80	13.00	7,500	40.00/M
	400	1	SMA	ES1GFSCT-ND◆	.32	2.40	16.64	7,500	57.60/M
	500	1	SMA	ES1HCT-ND◆	.32	2.40	16.64	7,500	57.60/M
	600	1	SMA	ES1JFSCT-ND◆	.32	2.40	16.64	7,500	57.60/M
	600	3	SMC	ES3JCT-ND◆	.40	3.20	24.00	3,000	108.00/M
	1,000	1	SMA	S1MFSCT-ND◆	.26	1.98	14.30	7,500	44.00/M
6	100	0.2	LL-34	FDLL4148CT-ND◆	.08	.59	4.23	2,500	15.28/M
7	100	0.25	TO-236AB	FLLD261FSCT-ND◆	.22	1.67	12.09	3,000	43.71/M
8	100	20	TO-220	MBR20S100CTTU-ND◆‡	.91	6.84	51.30	—	—
9	85	0.15	SOD-923	BAS16SLCT-ND◆ ***NEW!***	.11	.88	7.00	3,000	45.50/M
	30	0.03	SOD-923	RB751SLCT-ND◆ ***NEW!***	1.05	8.75	70.00	3,000	455.00/M
	40	0.1	SOD-923	BAS40SLCT-ND◆ ***NEW!***	.11	.88	7.00	3,000	45.50/M
	70	0.07	SOD-923	BAS70SLCT-ND◆ ***NEW!***	.11	.88	7.00	3,000	45.50/M

§ For Tape and Reel part number, change CT-ND to TR-ND ▲ For Tape and Box part number, change CT-ND to TB-ND
‡ Bulk ◆ ***RoHS Compliant***

Zener Diodes

Digi-Reel® RoHS COMPLIANT

Zener Volt. V_R (V)	I_R (µA)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing
		DO-35					
1.0	100	1N5221B-ND‡	.10	.77	5.53	—	—
1.0	5	1N5229BFSCT-ND	.10	.77	5.53	5,000	17.00/M
1.0	2	1N5230BFSCT-ND	.10	.77	5.53	5,000	17.00/M
1.0	0.1	BZX55C5V6-ND‡	.09	.68	4.88	—	—
2.0	5	1N5231BFSCT-ND	.10	.77	5.53	5,000	17.00/M
2.4	100	1N5221B_T50RCT-ND	.10	.77	5.53	5,000	17.00/M
3.5	5	1N5233BFSCT-ND	.10	.77	5.53	5,000	17.00/M
5.0	3	1N5235BFSCT-ND	.10	.77	5.53	5,000	17.00/M
5.1	5	1N5231B-ND‡	.10	.77	5.53	—	—
5.1	1	1N751A-ND‡	.10	.77	5.53	—	—
5.1	1	1N751ACT-ND	.10	.77	5.53	5,000	17.00/M
5.6	5	1N5232BFSCT-ND	.10	.77	5.53	5,000	17.00/M
5.6	1	1N752A-ND‡	.10	.77	5.53	—	—
6.0	3	1N5236BFSCT-ND	.10	.77	5.53	5,000	17.00/M
6.2	0.1	1N753ACT-ND	.10	.77	5.53	5,000	17.00/M
7.0	3	1N5239BFSCT-ND	.10	.77	5.53	5,000	17.00/M
8.0	3	1N5240BFSCT-ND	.10	.77	5.53	5,000	17.00/M
9.1	0.1	1N5242BFSCT-ND	.10	.77	5.53	5,000	17.00/M
11.4	5	1N965B-ND‡	.09	.68	4.88	—	—
14	0.1	1N5248BFSCT-ND	.10	.77	5.53	5,000	17.00/M
15	0.1	1N5250B-ND‡	.10	.77	5.53	—	—
20	1	1N752ACT-ND	.10	.77	5.53	5,000	17.00/M
20	0.1	1N754ACT-ND	.10	.77	5.53	5,000	17.00/M
20	0.1	1N755ACT-ND	.10	.77	5.53	5,000	17.00/M
20	0.1	1N757ACT-ND	.10	.77	5.53	5,000	17.00/M
20	0.1	1N758ACT-ND	.10	.77	5.53	10,000	14.45/M
20	0.1	1N759ACT-ND	.10	.77	5.53	5,000	17.00/M
30	2	1N749ACT-ND	.10	.77	5.53	5,000	17.00/M
30	2	1N750ACT-ND	.10	.77	5.53	5,000	17.00/M

‡ Bulk § For Tape and Reel part number, change CT-ND to TR-ND

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Zener Diodes *(Cont.)*

Zener Volt.	I_R	Digi-Key	Cut Tape Pricing			Tape and Reel§	
V_R (V)	(µA)	Part No.	1	10	100	Qty.	Pricing
DO-41							
1.0	3	BZX85C4V3-ND‡	.16	1.19	8.58	—	—
1.0	10	1N4731AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
1.0	10	1N4732AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
1.0	10	1N4733AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
2.0	10	1N4734AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
5.0	10	1N4737AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
6.0	10	1N4738AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
6.2	10	1N4735AFSCT-ND	.17	1.28	9.23	3,000	33.00/M
6.8	10	1N4736AFSCT-ND	.17	1.28	9.23	3,000	33.00/M
7.6	10	1N4740AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
8.4	0.5	BZX85C12-ND‡	.16	1.19	8.58	—	—
8.4	5	1N4741AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
10	10	1N4740A-ND‡	.17	1.28	9.23	—	—
9.1	5	1N4742AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
13.7	5	1N4746AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
15	5	1N4744A-ND‡	.17	1.28	9.23	—	—
15	5	1N4744AFSCT-ND	.17	1.28	9.23	3,000	33.00/M
15.2	5	1N4747AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
16.7	5	1N4748AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
18	5	1N4746A-ND‡	.17	1.28	9.23	—	—
20.6	5	1N4750AFSCT-ND	.17	1.28	9.23	3,000	33.37/M
33	5	1N4752AFSCT-ND	.17	1.28	9.23	3,000	33.00/M
SOT-23							
1.0	5	BZX84C3V3FSCT-ND	.12	.88	6.37	3,000	23.03/M
2.0	3	BZX84C4V7FSCT-ND	.12	.88	6.37	3,000	23.03/M
2.0	1	BZX84C5V6FSCT-ND	.12	.88	6.37	3,000	23.03/M
4.0	2	BZX84C6V8FSCT-ND	.14	1.06	7.67	3,000	27.73/M
4.0	3	BZX84C6V2FSCT-ND	.12	.88	6.37	3,000	23.03/M
5.1	2	BZX84C5V1FSCT-ND	.12	.88	6.37	3,000	23.03/M
5.6	5	MMBZ5232BFSCT-ND	.11	.86	6.18	3,000	22.00/M
6.0	0.5	BZX84C9V1FSCT-ND	.14	1.06	7.67	3,000	27.73/M
8.0	0.1	BZX84C11FSCT-ND	.14	1.06	7.67	—	—
8.0	0.1	BZX84C12FSCT-ND	.14	1.06	7.67	3,000	27.73/M
10.5	0.05	BZX84C15FSCT-ND	.14	1.06	7.67	3,000	27.73/M
12	1	MMBZ5242BFSCT-ND	.14	1.08	7.80	3,000	28.20/M
20	0.05	BZX84C20FSCT-ND	.14	1.06	7.67	3,000	27.73/M
SOD-80							
0.7	55	FLZ2V2ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ2V2BCT-ND	.11	.84	6.05	2,500	21.86/M
1	84	FLZ2V4ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ2V4BCT-ND	.11	.84	6.05	2,500	21.86/M
	70	FLZ2V7ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ2V7BCT-ND	.11	.84	6.05	2,500	21.86/M
	35	FLZ3V0ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ3V0BCT-ND	.11	.84	6.05	2,500	27.73/M
	14	FLZ3V3ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ3V3BCT-ND	.11	.84	6.05	2,500	21.86/M
	2.8	FLZ3V6ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ3V6BCT-ND	.11	.84	6.05	2,500	21.86/M
	1.4	FLZ3V9ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ3V9BCT-ND	.11	.84	6.05	2,500	21.86/M
	0.47	FLZ4V3ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ4V3BCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ4V3CCT-ND	.11	.84	6.05	2,500	21.86/M
	0.19	FLZ4V7ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ4V7BCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ4V7CCT-ND	.11	.84	6.05	2,500	21.86/M
1.5	0.19	FLZ5V1ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ5V1BCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ5V1CCT-ND	.11	.84	6.05	2,500	21.86/M
2.5	0.75	FLZ5V6ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ5V6BCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ5V6CCT-ND	.11	.84	6.05	2,500	21.86/M
3	3.3	FLZ6V2ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ6V2BCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ6V2CCT-ND	.11	.84	6.05	2,500	21.86/M
3.5	1.1	FLZ6V8ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ6V8BCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ6V8CCT-ND	.11	.84	6.05	2,500	21.86/M
4	0.3	FLZ7V5ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ7V5BCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ7V5CCT-ND	.11	.84	6.05	2,500	21.86/M
5	0.3	FLZ8V2ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ8V2BCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ8V2CCT-ND	.11	.84	6.05	2,500	21.86/M
6	0.3	FLZ9V1ACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ9V1BCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ9V1CCT-ND	.11	.84	6.05	2,500	21.86/M
7	0.11	FLZ10VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ10VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ10VCCT-ND	.11	.84	6.05	2,500	21.86/M
8	0.133	FLZ11VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ11VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ11VCCT-ND	.11	.84	6.05	2,500	21.86/M
9	0.133	FLZ12VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ12VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ12VCCT-ND	.11	.84	6.05	2,500	21.86/M
10	0.133	FLZ13VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ13VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ13VCCT-ND	.11	.84	6.05	2,500	21.86/M
11	0.133	FLZ15VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ15VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ15VCCT-ND	.11	.84	6.05	2,500	21.86/M
12	0.133	FLZ16VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ16VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ16VCCT-ND	.11	.84	6.05	2,500	21.86/M
13	0.133	FLZ18VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ18VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ18VCCT-ND	.11	.84	6.05	2,500	21.86/M
15	0.133	FLZ20VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ20VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ20VCCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ20VDCT-ND	.11	.84	6.05	2,500	21.86/M
17	0.133	FLZ22VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ22VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ22VCCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ22VDCT-ND	.11	.84	6.05	2,500	21.86/M
19	0.133	FLZ24VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ24VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ24VCCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ24VDCT-ND	.11	.84	6.05	2,500	21.86/M
21	0.133	FLZ27VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ27VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ27VCCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ27VDCT-ND	.11	.84	6.05	2,500	21.86/M
23	0.133	FLZ30VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ30VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ30VCCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ30VDCT-ND	.11	.84	6.05	2,500	21.86/M
25	0.133	FLZ33VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ33VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ33VCCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ33VDCT-ND	.11	.84	6.05	2,500	21.86/M
27	0.133	FLZ36VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ36VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ36VCCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ36VDCT-ND	.11	.84	6.05	2,500	21.86/M
30	0.133	FLZ39VACT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ39VBCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ39VCCT-ND	.11	.84	6.05	2,500	21.86/M
		FLZ39VDCT-ND	.11	.84	6.05	2,500	21.86/M
SOD-123							
10	3	MMSZ5240BFSCT-ND	.18	1.38	9.95	3,000	36.00/M
12	1	MMSZ5242BFSCT-ND	.18	1.38	9.95	3,000	36.00/M
SOD-323F							
2.4	45	MM3Z2V4BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z2V4CCT-ND	.16	1.17	8.45	3,000	30.55/M
2.7	18	MM3Z2V7BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z2V7CCT-ND	.16	1.17	8.45	3,000	30.55/M
3.0	9	MM3Z3V0BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z3V0CCT-ND	.16	1.17	8.45	3,000	30.55/M
3.3	4.5	MM3Z3V3BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z3V3CCT-ND	.16	1.17	8.45	3,000	30.55/M
3.6	4.5	MM3Z3V6BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z3V6CCT-ND	.16	1.17	8.45	3,000	30.55/M
3.9	2.7	MM3Z3V9BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z3V9CCT-ND	.16	1.17	8.45	3,000	30.55/M
4.3	2.7	MM3Z4V3BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z4V3CCT-ND	.16	1.17	8.45	3,000	30.55/M
4.7	2.7	MM3Z4V7BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z4V7CCT-ND	.16	1.17	8.45	3,000	30.55/M

‡ Bulk § For Tape and Reel part number, change CT-ND to TR-ND

(Continued)

FAIRCHILD SEMICONDUCTOR®

Zener Diodes *(Cont.)*

Zener Volt. V_R (V)	I_R (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
5.1	1.8	MM3Z5V1BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z5V1CCT-ND	.16	1.17	8.45	3,000	30.55/M
5.6	0.9	MM3Z5V6BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z5V6CCT-ND	.16	1.17	8.45	3,000	30.55/M
6.2	2.7	MM3Z6V2BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z6V2CCT-ND	.16	1.17	8.45	3,000	30.55/M
6.8	1.8	MM3Z6V8BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z6V8CCT-ND	.16	1.17	8.45	3,000	30.55/M
7.5	0.9	MM3Z7V5BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z7V5CCT-ND	.16	1.17	8.45	3,000	30.55/M
8.2	0.63	MM3Z8V2BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z8V2CCT-ND	.16	1.17	8.45	3,000	30.55/M
9.1	0.45	MM3Z9V1BCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z9V1CCT-ND	.16	1.17	8.45	3,000	30.55/M
10	0.18	MM3Z10VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z10VCCT-ND	.16	1.17	8.45	3,000	30.55/M
11	0.09	MM3Z11VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z11VCCT-ND	.16	1.17	8.45	3,000	30.55/M
12	0.09	MM3Z12VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z12VCCT-ND	.16	1.17	8.45	3,000	30.55/M
13	0.09	MM3Z13VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z13VCCT-ND	.16	1.17	8.45	3,000	30.55/M
15	0.045	MM3Z15VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z15VCCT-ND	.16	1.17	8.45	3,000	30.55/M
16	0.045	MM3Z16VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z16VCCT-ND	.16	1.17	8.45	3,000	30.55/M
18	0.045	MM3Z18VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z18VCCT-ND	.16	1.17	8.45	3,000	30.55/M
20	0.045	MM3Z20VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z20VCCT-ND	.16	1.17	8.45	3,000	30.55/M
22	0.045	MM3Z22VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z22VCCT-ND	.16	1.17	8.45	3,000	30.55/M
24	0.045	MM3Z24VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z24VCCT-ND	.16	1.17	8.45	3,000	30.55/M
27	0.045	MM3Z27VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z27VCCT-ND	.16	1.17	8.45	3,000	30.55/M
30	0.045	MM3Z30VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z30VCCT-ND	.16	1.17	8.45	3,000	30.55/M
33	0.045	MM3Z33VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z33VCCT-ND	.16	1.17	8.45	3,000	30.55/M
36	0.045	MM3Z36VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z36VCCT-ND	.16	1.17	8.45	3,000	30.55/M
39	0.045	MM3Z39VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z39VCCT-ND	.16	1.17	8.45	3,000	30.55/M
43	0.045	MM3Z43VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z43VCCT-ND	.16	1.17	8.45	3,000	30.55/M
47	0.045	MM3Z47VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z47VCCT-ND	.16	1.17	8.45	3,000	30.55/M
51	0.045	MM3Z51VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z51VCCT-ND	.16	1.17	8.45	3,000	30.55/M
56	0.045	MM3Z56VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z56VCCT-ND	.16	1.17	8.45	3,000	30.55/M
62	0.045	MM3Z62VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z62VCCT-ND	.16	1.17	8.45	3,000	30.55/M
68	0.045	MM3Z68VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z68VCCT-ND	.16	1.17	8.45	3,000	30.55/M
75	0.045	MM3Z75VBCT-ND	.16	1.17	8.45	3,000	30.55/M
		MM3Z75VCCT-ND	.16	1.17	8.45	3,000	30.55/M
		SOT 23					
3.0	5	MMBZ5V6BCT-ND	.40	7.81	22.00	3,000	90.00/M
		TO220F-2					
600	100	FFPF08H60STU-ND‡	.96	7.20	54.00	—	—
	100	FFPF08S60STU-ND‡	.75	6.25	50.00	—	—
	1	FFPF10H60STU-ND‡	.81	6.75	54.00	—	—

‡ Bulk § For Tape and Reel part number, change CT-ND to TR-ND

Triacs – Silicon Bidirectional Thyristor

Fig. 1

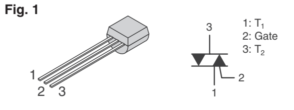

Fig. 2

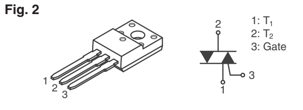

Fig.	V_{DRM} (V)	I_T (A)	Package	Digi-Key Part No.	Pricing 1	10	100
1	400	0.8	TO-92	FKN08PN40S-ND	.39	3.15	21.60
	600	0.8	TO-92	FKN08PN60-ND	.39	3.15	21.60
	600	1.0	TO-92	FKN1N60SA-ND	.39	3.15	21.60
2	800	3.0	TO-220F	FKPF3N80TU-ND	.68	5.10	38.25

Ultrafast Recovery Power Diodes

Fig. 1

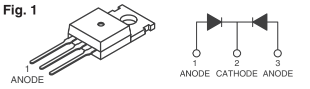

Fig. 2

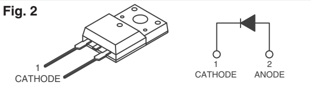

Fig. 3

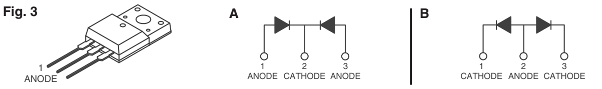

Fig. 4

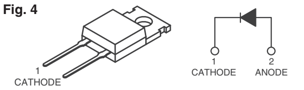

Fig. 5

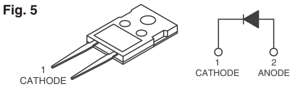

Fig. 6

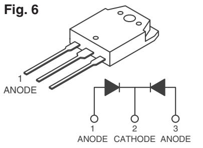

Fig. 7

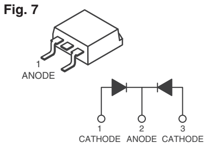

Fig. 8

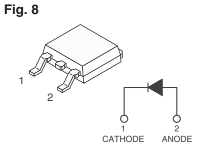

Fig.	Peak Voltage V_{RRM} (V)	Current I_F (A)	Pkg.	Digi-Key Part No.	Price Each 1	25	100
1	200	15	TO-220	FFP30UP20DNTU-ND	1.49	1.24	.99
2	600	4	TO-220F-2	FFPF04S60STU-ND	.75	.63	.50
	600	15	TO-220F-2	FFPF15S60STU-ND	.99	.83	.66
	200	15	TO-220F	FFPF15UP20STU-ND	.96	.72	.54
	600	30	TO-220F	FFPF30U60STTU-ND	1.20	1.00	.80
3A	200	15	TO-220F	FFPF30UP20DNTU-ND	1.14	.95	.76
	600	20	TO-220F	FFPF20UP60DNTU-ND ***NEW!***	1.20	.90	.68
3B	200	15	TO-220F	FFPF30UP20DPTU-ND	1.14	.95	.76
4	600	4	TO-220-2L	FFP04H60STU-ND ***NEW!***	.90	.75	.60
	600	4	TO-220-2	FFP04S60STU-ND	.96	.72	.54
	600	15	TO-220-2	FFP15S60STU-ND	1.28	1.07	.86
	600	30	TO-220-2	FFP30S60STU-ND	1.62	1.30	.97
5	600	15	TO-247-2	FFH15S60STU-ND	1.71	1.37	1.03
	600	30	TO-247-2	FFH30S60STU-ND	2.49	2.00	1.50
6	200	15	TO-3P	FFA30UP20DNTU-ND	1.73	1.38	1.04
	600	15	TO-3PN	RHRA1560CC-ND	1.51	1.21	.91
7	300	20	D^2-PAK	FFB20UP30DNTMCT-ND‡	1.38	1.10	.83
				FFB20UP30DNTMTR-ND§		594.00/800	
	300	20	D^2-PAK	FFB20UP30DNTPTMCT-ND‡	1.40	1.17	.94
				FFB20UP30DNTPTMTR-ND§		523.60/800	
8	200	6	D-PAK	FFD06UP20SCT-ND‡	.58	.44	.33
	200	6	D-PAK	FFD06UP20STR-ND§		468.00/2,500	
	200	10	D-PAK	FFD10UP20SCT-ND‡	.66	.50	.38
	200	10	D-PAK	FFD10UP20STR-ND§		536.25/2,500	

‡ Cut Tape § Tape and Reel

Transient Voltage Suppressors

V_{RWM} (V)	V_{BR} (V) Minimum	Maximum	I_T (mA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel§ Qty.	Pricing
				SMB — DO-214AA					
5	6.4	7.0	10	SMBJ5V0ACT-ND	.36	7.28	19.98	3,000	94.00/M
33	36.7	40.6	1	SMBJ33AFSCT-ND	.43	8.44	23.76	3,000	97.20/M
				SMC — DO-214AB					
33	36.7	40.6	1	SMBJ33CAFSCT-ND	.43	8.66	23.76	3,000	112.20/M
36	40	44.2	1	SMCJ36CAFSCT-ND	.49	9.22	27.65	3,000	159.77/M

§ For Tape and Reel part number, change the CT-ND to TR-ND

Bridge Rectifiers

Fig. 1

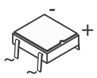

Fig. 2

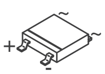

Fig. 3

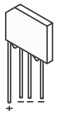

Fig. 4

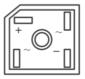

Fig.	Max. Reverse Voltage (V)	Max. Average Rectified Current (A)	Pkg.	Digi-Key Part No.	Pricing 1	25	100	Tape and Reel§ Qty.	Pricing
1	50	1.5	DIP	DF005M-ND	.49	9.84	27.00	—	—
	100	1.5	DIP	DF01M-ND	.49	9.84	27.00	—	—
	400	1.5	DIP	DF04M-ND	.48	9.71	26.64	—	—
	600	1.5	DIP	DF06M-ND	.50	10.11	27.72	—	—
2	100	1.5	SDIP	DF01SCT-ND†	.49	9.84	27.00	1,500	135.00/M
	200	1.5	SDIP	DF02SCT-ND†	.49	9.84	27.00	1,500	135.00/M
	400	1.5	SDIP	DF04SCT-ND†	.49	9.84	27.00	1,500	135.00/M
	1,000	1.5	SDIP	DF10SCT-ND†	.48	9.60	28.80	1,500	134.40/M
3	400	2.0	KBPM	2KBP04MFS-ND	.55	10.28	30.83	—	—
	800	2.0	KBPM	3N258-ND	.59	11.03	33.08	—	—
4	200	25	GBPC	GBPC2502-ND	2.05	41.00	123.00	—	—

† Cut Tape § For Tape and Reel part number, change the CT-ND to TR-ND

Mosfets

TO-218AB

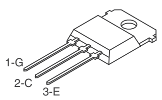

TO-220AB, TO-220, TO-220-3

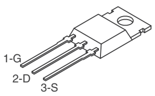

TO-220FP

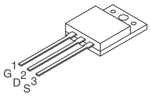

TO-247

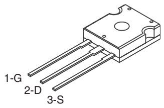

TO-251

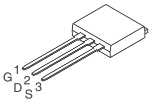

TO-252-3-11, TO-252-3 ***NEW!***

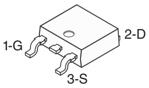

TO-262AB

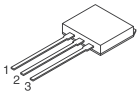

TO-262

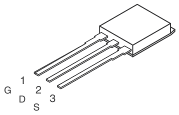

D-PAK, D2-PAK and TO-252

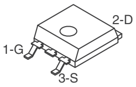

D-PAK — Bent up Leads

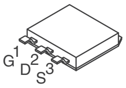

DSO-8

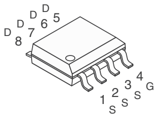

SO-8 Single

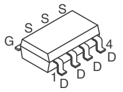

SO-8 Dual

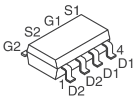

SOT-23

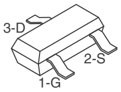

SOT-89

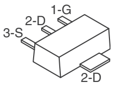

SOT-143

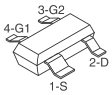

SOT-223

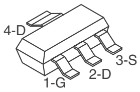

SOT-323

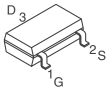

SOT-363 — Single

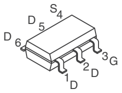

SOT-363 — Dual

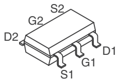

SUPERSO8

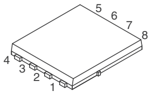

TDSON-8

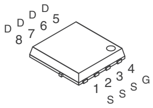

TO-263

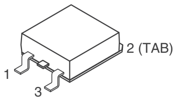

TSOP-6

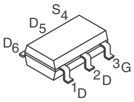

General Purpose

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
SOT-23	P-CH	-60	8	-0.17	-0.68	0.36	BSS84PINCT-ND◆	.41	.30	.18	—	—	—	BSS84P-E6327
	N-CH	60	3.5	0.23	0.88	0.36	BSS138NEINCT-ND◆	.63	.43	.21	BSS138NEINTR-ND◆	3,000	67.21/M	BSS138NE6327
		100	6	0.17	0.68	0.36	BSS123INCT-ND◆	.41	.30	.18	—	—	—	BSS123E6327
		240	16	0.1	0.4	0.36	BSS131INCT-ND◆	.47	.36	.25	BSS131INTR-ND◆	3,000	108.48/M	BSS131E6327
SOT-89	N-CH	240	6	0.29	1.16	1	BSS87INCT-ND◆	.88	.69	.59	—	—	—	BSS87E6327
							BSS87XTINCT-ND◆	.84	.66	.57	BSS87XTINTR-ND◆	1,000	290.78	BSS87E6327T
SOT-143	N-CH	12	—	0.3	—	200	BF998INCT-ND*◆	.44	.34	.23	BF998INTR-ND*◆	3,000	104.16/M	BF998E6327
SOT-223	P-CH	-60	0.8	-1.17	-4.68	1.8	BSP315PXTINCT-ND◆	.71	.55	.48	BSP315PXTINTR-ND◆	1,000	243.66	BSP315PE6327T
	N-CH	100	6	0.37	1.48	1.79	BSP123XTINCT-ND◆	.59	.44	.35	—	—	—	BSP123E6327T
		240	6	0.05	1.4	1.8	BSP129XTINCT-ND◆	1.09	.85	.73	BSP129XTINTR-ND◆	1,000	362.24	BSP129E6327T
		240	8	0.32	1.28	1.7	BSP88INCT-ND	.75	.59	.51	—	—	—	BSP88E6327
		240	8	0.32	1.28	1.7	BSP88XTINCT-ND◆	.73	.57	.49	BSP88XTINTR-ND◆	1,000	250.02	BSP88L6327T
TO-220AB	N-CH	50	0.12	15.5	62	50	BTS115AIN-ND◆	7.11	6.59	5.01	—	—	—	BTS115A
		100	0.1	22	88	95	BTS121AIN-ND◆	9.78	9.06	6.88	—	—	—	BTS121A
		200	0.13	21	84	125	BUZ30AIN-ND	2.41	2.26	1.81	—	—	—	BUZ30A
		200	0.4	7	28	40	BUZ73IN-ND◆	1.27	1.10	.85	—	—	—	BUZ73
		800	3	3.6	14.5	100	BUZ80AIN-ND	4.21	2.91	2.37	—	—	—	BUZ80A

* Dual ◆ *RoHS Compliant*

Cool MOS® Power

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-220AB	P-CH	-60	0.3	-8.8	-35.2	42	SPP08P06PIN-ND◆	3.59	3.30	2.52	—	—	—	SPP08P06P
			0.13	-18.6	-74.4	80	SPP18P06PIN-ND◆	1.42	1.24	.95	—	—	—	SPP18P06P
	N-CH	560	0.95	4.5	13.5	50	SPP04N50C3IN-ND◆	1.47	1.28	.99	—	—	—	SPP04N50C3
			0.38	11.6	34.8	125	SPP12N50C3IN-ND	2.40	2.26	1.81	—	—	—	SPP12N50C3
			0.28	16	48	160	SPP16N50C3IN-ND	2.88	2.70	2.17	—	—	—	SPP16N50C3
		650	3	1.8	5.4	25	SPP02N60C3IN-ND	1.27	.98	.86	—	—	—	SPP02N60C3
			1.4	3.2	5.7	38	SPP03N60S5IN-ND◆	1.46	1.27	.98	—	—	—	SPP03N60S5
			0.95	4.5	13.5	50	SPP04N60C3IN-ND◆	1.63	1.42	1.09	—	—	—	SPP04N60C3
			0.6	7.3	21.9	83	SPP07N60C3IN-ND◆	1.93	1.82	1.45	—	—	—	SPP07N60C3
			0.6	7.3	14.6	83	SPP07N60S5IN-ND◆	2.31	2.17	1.73	—	—	—	SPP07N60S5
			0.38	11	33	125	SPP11N60C3IN-ND◆	2.95	2.77	2.21	—	—	—	SPP11N60C3
			0.38	11	22	125	SPP11N60S5IN-ND◆	3.16	2.96	2.37	—	—	—	SPP11N60S5
			0.19	20.7	62.1	208	SPP20N60C3IN-ND◆	4.37	4.01	3.07	—	—	—	SPP20N60C3
			0.19	20	40	208	SPP20N60S5IN-ND◆	4.78	4.39	3.35	—	—	—	SPP20N60S5
		800	1.3	4	12	63	SPP04N80C3IN-ND◆	1.98	1.86	1.49	—	—	—	SPP04N80C3
			0.9	6	18	83	SPP06N80C3IN-ND	2.65	2.49	1.99	—	—	—	SPP06N80C3
			0.65	8	24	104	SPP08N80C3IN-ND◆	2.90	2.72	2.18	—	—	—	SPP08N80C3
			0.45	11	33	156	SPP11N80C3IN-ND◆	3.65	3.35	2.56	—	—	—	SPP11N80C3
			0.29	17	51	208	SPP17N80C3IN-ND◆	5.36	4.92	3.76	—	—	—	SPP17N80C3

◆ *RoHS Compliant*

(Continued)

Cool MOS® Power *(Cont.)*

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Infineon Part No.
TO-220	N-CH	550	0.299	12	26	104	IPP50R299CPIN-ND◆ ***NEW!***	2.63	2.47	1.98	—	—	—	IPP50R299CP
			0.35	10	22	89	IPP50R350CPIN-ND◆ ***NEW!***	2.27	2.13	1.70	—	—	—	IPP50R350CP
		600	3	1.8	3.2	25	SPP02N60S5IN-ND◆	1.20	1.05	.81	—	—	—	SPP02N60S5
			0.95	4.5	9	50	SPP04N60S5IN-ND◆	1.76	1.53	1.18	—	—	—	SPP04N60S5
		650	1.4	3.2	9.6	29.7	SPA03N60C3IN-ND◆	1.37	1.19	.92	—	—	—	SPA03N60C3
			0.75	6.2	18.6	32	SPA06N60C3IN-ND◆	1.71	1.61	1.29	—	—	—	SPA06N60C3
			0.75	6.2	18.6	74	SPP06N60C3IN-ND◆	1.71	1.61	1.29	—	—	—	SPP06N60C3
			0.6	7.3	21.9	32	SPA07N60C3IN-ND◆	1.93	1.82	1.45	—	—	—	SPA07N60C3
			0.6	7.3	21.9	32	SPA07N65C3IN-ND◆	2.25	2.11	1.69	—	—	—	SPA07N65C3
			0.6	7.3	21.9	83	SPP07N65C3IN-ND◆	2.25	2.11	1.69	—	—	—	SPP07N65C3
			0.38	11	33	33	SPA11N65C3IN-ND◆	2.99	2.81	2.25	—	—	—	SPA11N65C3
			0.44	11	28	125	SPP11N60CFDIN-ND◆	3.02	2.77	2.12	—	—	—	SPP11N60CFD
			0.38	11	33	125	SPP11N65C3IN-ND◆	2.95	2.77	2.21	—	—	—	SPP11N65C3
			0.28	15	45	34	SPA15N60C3IN-ND◆	3.13	2.87	2.20	—	—	—	SPA15N60C3
			0.28	15	45	156	SPP15N60C3IN-ND◆	3.13	2.87	2.20	—	—	—	SPP15N60C3
			0.250	12	40	104	IPP60R250CPIN-ND◆ ***NEW!***	3.44	3.16	2.41	—	—	—	IPP60R250CP
			0.22	20.7	52	208	SPP20N60CFDIN-ND◆	4.80	4.40	3.37	—	—	—	SPP20N60CFD
			0.199	16	51	139	IPP60R199CPIN-ND◆ ***NEW!***	3.78	3.47	2.65	—	—	—	IPP60R199CP
			0.19	20.7	62.1	34.5	SPA20N65C3IN-ND◆	4.80	4.40	3.37	—	—	—	SPA20N65C3
			0.19	20.7	62.1	208	SPP20N65C3IN-ND◆	4.80	4.40	3.37	—	—	—	SPP20N65C3
			0.16	24.3	72.9	240	SPP24N60C3IN-ND◆	5.14	4.72	3.61	—	—	—	SPP24N60C3
		800	2.7	2	6	30.5	SPA02N80C3IN-ND◆	1.63	1.42	1.09	—	—	—	SPA02N80C3
TO-220FP	N-CH	560	0.95	4.5	13.5	31	SPA04N50C3IN-ND	1.53	1.33	1.02	—	—	—	SPA04N50C3
			0.6	7.6	22.8	32	SPA08N50C3IN-ND◆	1.75	1.65	1.32	—	—	—	SPA08N50C3
			0.38	11.6	34.8	33	SPA12N50C3IN-ND◆	2.40	2.26	1.81	—	—	—	SPA12N50C3
			0.28	16	48	34	SPA16N50C3IN-ND◆	2.88	2.70	2.17	—	—	—	SPA16N50C3
			0.19	21	63	34.5	SPA21N50C3IN-ND◆	3.73	3.42	2.62	—	—	—	SPA21N50C3
			0.19	21	63	208	SPP21N50C3IN-ND◆	3.73	3.42	2.62	—	—	—	SPP21N50C3
		650	0.95	4.5	13.5	31	SPA04N60C3IN-ND◆	1.74	1.51	1.16	—	—	—	SPA04N60C3
			0.38	11	33	33	SPA11N60C3IN-ND	2.95	2.77	2.21	—	—	—	SPA04N60C3
			0.19	20.7	62.1	34.5	SPA20N60C3IN-ND◆	4.71	4.33	3.30	—	—	—	SPA20N60C3
		800	1.3	4	12	38	SPA04N80C3IN-ND◆	2.11	1.98	1.59	—	—	—	SPA04N80C3
			0.9	6	18	39	SPA06N80C3IN-ND◆	2.67	2.51	2.01	—	—	—	SPA06N80C3
			0.65	8	24	40	SPA08N80C3IN-ND◆	3.08	2.89	2.32	—	—	—	SPA08N80C3
			0.45	11	33	41	SPA11N80C3IN-ND	3.65	3.35	2.56	—	—	—	SPA11N80C3
			0.29	17	51	42	SPA17N80C3IN-ND◆	5.36	4.92	3.76	—	—	—	SPA17N80C3
TO-247	N-CH	560	0.38	11.6	34.8	125	SPW12N50C3IN-ND	3.11	2.92	2.34	—	—	—	SPW12N50C3
			0.28	16	48	160	SPW16N50C3IN-ND◆	3.34	3.07	2.35	—	—	—	SPW16N50C3
			0.19	21	63	208	SPW21N50C3IN-ND	4.37	4.01	3.07	—	—	—	SPW21N50C3
			0.11	32	96	284	SPW32N50C3IN-ND◆	7.44	6.90	5.24	—	—	—	SPW32N50C3
			0.07	52	156	417	SPW52N50C3IN-ND◆	12.15	11.26	8.56	—	—	—	SPW52N50C3
		600	0.38	11	22	125	SPW11N60S5IN-ND◆	4.09	3.75	2.87	—	—	—	SPW11N60S5
			0.118	34	85	313	SPW35N60CFDIN-ND◆	9.64	8.93	6.79	—	—	—	SPW35N60CFD
			0.083	46	115	417	SPW47N60CFDIN-ND◆	15.00	14.11	10.51	—	—	—	SPW47N60CFD
		650	0.38	11	33	125	SPW11N60C3IN-ND◆	3.43	3.15	2.41	—	—	—	SPW11N60C3
			0.44	11	28	125	SPW11N60CFDIN-ND◆	3.77	3.46	2.65	—	—	—	SPW11N60CFD
			0.28	15	45	156	SPW15N60C3IN-ND◆	3.77	3.46	2.65	—	—	—	SPW15N60C3
			0.19	20	40	208	SPW20N60S5IN-ND◆	6.29	5.77	4.41	—	—	—	SPW20N60S5
			0.19	20.7	62.1	208	SPW20N60C3IN-ND◆	5.14	4.72	3.61	—	—	—	SPW20N60C3
			0.22	20.7	52	208	SPW20N60CFDIN-ND◆	5.57	5.11	3.91	—	—	—	SPW20N60CFD
			0.16	24.3	72.9	240	SPW24N60C3IN-ND◆	5.79	5.31	4.06	—	—	—	SPW24N60C3
			0.1	34.6	103.8	313	SPW35N60C3IN-ND◆	8.87	8.22	6.25	—	—	—	SPW35N60C3
			0.075	39	103	313	IPW60R075CPIN-ND◆ ***NEW!***	12.50	11.76	8.76	—	—	—	IPW60R075CP
			0.07	47	141	415	SPW47N60C3IN-ND◆	12.86	12.09	9.01	—	—	—	SPW47N60C3
			0.045	60	230	431	IPW60R045CPIN-ND◆	19.64	18.47	13.76	—	—	—	IPW60R045CP
		800	0.45	11	33	156	SPW11N80C3IN-ND◆	4.33	3.97	3.04	—	—	—	SPW11N80C3
			0.29	17	51	208	SPW17N80C3IN-ND◆	6.43	5.90	4.51	—	—	—	SPW17N80C3
TO-251	N-CH	600	3	1.8	3.2	25	SPU02N60S5IN-ND◆	1.18	1.03	.79	—	—	—	SPU02N60S5
			1.4	3.2	5.7	38	SPU03N60S5IN-ND◆	1.43	1.25	.96	—	—	—	SPU03N60S5
			0.95	4.5	9	50	SPU04N60S5IN-ND◆	1.74	1.51	1.16	—	—	—	SPU04N60S5
			0.6	7.3	14.6	83	SPU07N60S5IN-ND◆	1.99	1.87	1.49	—	—	—	SPU07N60S5
		650	6	0.8	1.6	11	SPU01N60C3IN-ND◆	.95	.83	.64	—	—	—	SPU01N60C3
			0.95	4.5	13.5	50	SPU04N60C3IN-ND◆	1.53	1.33	1.02	—	—	—	SPU04N60C3
			0.6	7.3	21.9	83	SPU07N60C3IN-ND◆	1.80	1.69	1.35	—	—	—	SPU07N60C3
TO-262	N-CH	560	0.6	7.6	22.8	83	SPI08N50C3IN-ND◆	1.75	1.65	1.32	—	—	—	SPI08N50C3
			0.38	11.6	34.8	125	SPI12N50C3IN-ND◆	2.40	2.26	1.81	—	—	—	SPI12N50C3
			0.28	16	48	160	SPI16N50C3IN-ND◆	2.88	2.70	2.17	—	—	—	SPI16N50C3
		600	0.6	7.3	14.6	83	SPI07N60S5IN-ND◆	2.31	2.17	1.73	—	—	—	SPI07N60S5
			0.38	11	22	125	SPI11N60S5IN-ND◆	3.16	2.96	2.37	—	—	—	SPI11N60S5
		650	0.6	7.3	21.9	83	SPI07N65C3IN-ND◆	2.25	2.11	1.69	—	—	—	SPI07N65C3
			0.38	11	33	125	SPI11N65C3IN-ND◆	2.72	2.55	2.04	—	—	—	SPI11N65C3
			0.28	15	45	156	SPI15N60C3IN-ND◆	3.13	2.87	2.20	—	—	—	SPI15N60C3
			0.19	20.7	62.1	208	SPI20N60C3IN-ND◆	4.37	4.01	3.07	—	—	—	SPI20N60C3
			0.19	20.7	62.1	208	SPI20N65C3IN-ND◆	4.80	4.40	3.37	—	—	—	SPI20N65C3
		800	0.65	8	24	104	SPI08N80C3IN-ND◆	2.88	2.70	2.16	—	—	—	SPI08N80C3
D-PAK	N-CH	560	3	1.8	5.4	25	SPD02N50C3INCT-ND	1.20	.95	.81	—	—	—	SPD02N50C3
			1.4	3.2	9.6	38	SPD03N50C3INCT-ND◆	1.45	1.15	.98	—	—	—	SPD03N50C3
			0.6	7.6	22.8	83	SPD08N50C3INCT-ND	2.12	1.67	1.42	SPD08N50C3INTR-ND	2,500	657.16/M	SPD08N50C3
		650	1.4	3.2	9.6	38	SPD03N60C3INCT-ND◆	1.40	1.11	.95	—	—	—	SPD03N60C3
			1.4	3.2	9.6	38	SPD03N60C3XTINCT-ND◆	1.39	1.10	.94	SPD03N60C3XTINTR-ND◆	2,500	435.92/M	SPD03N60C3T
			0.95	4.5	13.5	50	SPD04N60C3INCT-ND	1.79	1.42	1.21	SPD04N60C3INTR-ND	2,500	561.06/M	SPD04N60C3
			0.6	7.3	21.9	83	SPD07N60C3XTINCT-ND◆	2.37	1.87	1.59	—	—	—	SPD07N60C3T
		800	0.9	6	18	83	SPD06N80C3XTINCT-ND◆	3.07	2.41	2.05	SPD06N80C3XTINTR-ND◆	2,500	949.14/M	SPD06N80C3T
D2-PAK	N-CH	650	3	1.8	5.4	25	SPB02N60C3INCT-ND	1.16	1.01	.78	SPB02N60C3INTR-ND	1,000	442.35	SPB02N60C3
			1.4	3.2	9.6	38	SPB03N60C3INCT-ND	1.57	1.25	1.06	SPB03N60C3INTR-ND	1,000	547.65	SPB03N60C3
			0.95	4.5	13.5	50	SPB04N60C3INCT-ND	1.87	1.48	1.27	SPB04N60C3INTR-ND	1,000	652.95	SPB04N60C3
			0.38	11	33	125	SPB11N60C3INCT-ND◆	3.87	3.04	2.58	SPB11N60C3INTR-ND◆	1,000	1265.83	SPB11N60C3
		800	0.29	17	51	208	SPB17N80C3XTINCT-ND◆	6.97	5.72	4.83	SPB17N80C3XTINTR-ND◆	1,000	2410.97	SPB17N80C3T
TO-252	N-CH	600	3	1.8	3.2	25	SPD02N60S5INCT-ND◆	1.38	1.09	.93	SPD02N60S5INTR-ND◆	2,500	432.41/M	SPD02N60S5
			1.4	3.2	5.7	38	SPD03N60S5INCT-ND◆	1.53	1.22	1.04	SPD03N60S5INTR-ND◆	2,500	481.42/M	SPD03N60S5
			0.95	4.5	9	50	SPD04N60S5INCT-ND◆	1.88	1.49	1.27	SPD04N60S5INTR-ND◆	2,500	590.63/M	SPD04N60S5
		650	6	0.8	1.6	11	SPD01N60C3INCT-ND◆	1.09	.86	.74	SPD01N60C3INTR-ND◆	2,500	341.15/M	SPD01N60C3
			0.75	6.2	18.6	74	SPD06N60C3INCT-ND◆	2.11	1.68	1.43	SPD06N60C3INTR-ND◆	2,500	663.40/M	SPD06N60C3
			0.385	9.0	27	83	IPD60R385CPINCT-ND◆	3.09	2.43	2.07	IPD60R385CPINTR-ND◆	—	—	IPD60R385CP
		800	2.7	2	6	42	SPD02N80C3INCT-ND◆	1.69	1.34	1.14	SPD02N80C3INTR-ND◆	2,500	530.69/M	SPD02N80C3
			1.3	4	12	63	SPD04N80C3INCT-ND◆	2.42	1.90	1.62	SPD04N80C3INTR-ND◆	2,500	748.42/M	SPD04N80C3

◆ ***RoHS Compliant***

(Continued)

Cool MOS® Power *(Cont.)*

Digi-Reel®

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-263	N-CH	560	0.95	4.5	13.5	50	SPB04N50C3INCT-ND◆	1.81	1.44	1.23	SPB04N50C3INTR-ND◆	1,000	631.80	SPB04N50C3
			0.38	11.6	34.8	125	SPB12N50C3INCT-ND◆	3.15	2.48	2.11	SPB12N50C3INTR-ND◆	1,000	1032.21	SPB12N50C3
			0.28	16	48	160	SPB16N50C3INCT-ND◆	3.75	2.95	2.50	SPB16N50C3INTR-ND◆	1,000	1226.91	SPB16N50C3
			0.19	21	63	208	SPB21N50C3INCT-ND◆	4.85	3.98	3.36	SPB21N50C3INTR-ND◆	1,000	1678.05	SPB21N50C3
		600	3	1.8	3.2	25	SPB02N60S5INCT-ND◆	1.38	1.09	.93	SPB02N60S5INTR-ND◆	1,000	480.45	SPB02N60S5
			1.4	3.2	5.7	38	SPB03N60S5INCT-ND◆	1.67	1.33	1.13	SPB03N60S5INTR-ND◆	1,000	583.35	SPB03N60S5
			0.95	4.5	9	50	SPB04N60S5INCT-ND◆	2.02	1.60	1.37	SPB04N60S5INTR-ND◆	1,000	704.85	SPB04N60S5
			0.6	7.3	14.6	83	SPB07N60S5INCT-ND◆	3.03	2.38	2.02	SPB07N60S5INTR-ND◆	1,000	990.83	SPB07N60S5
			0.38	11	22	125	SPB11N60S5INCT-ND◆	4.14	3.26	2.77	SPB11N60S5INTR-ND◆	1,000	1356.44	SPB11N60S5
			0.19	20	40	208	SPB20N60S5INCT-ND◆	6.22	5.11	4.31	SPB20N60S5INTR-ND◆	1,000	2152.31	SPB20N60S5

◆ ***RoHS Compliant***

OptiMOS®

Digi-Reel®

Package	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-220AB	N-CH	30	8.4	73	320	107	SPP73N03S2L-08IN-ND	1.85	1.42	1.25	—	—	—	SPP73N03S2L-08
			5.9	80	320	150	SPP80N03S2L-06IN-ND	1.61	1.51	1.21	—	—	—	SPP80N03S2L-06
TO-220	N-CH	55	24.8	25	100	48	IPP25N06S3-25IN-ND◆	1.09	.85	.66	—	—	—	IPP25N06S3-25
			21.3	25	100	50	IPP25N06S3L-22IN-ND◆	1.09	.85	.66	—	—	—	IPP25N06S3L-22
			15.4	45	180	65	IPP45N06S3-16IN-ND◆	1.15	1.00	.77	—	—	—	IPP45N06S3-16
			13.1	45	180	65	IPP45N06S3L-13IN-ND◆	1.15	1.00	.77	—	—	—	IPP45N06S3L-13
			8.8	77	308	107	IPP77N06S3-09IN-ND◆	1.48	1.29	.99	—	—	—	IPP77N06S3-09
			5.1	80	320	165	IPP80N06S3-05IN-ND◆	2.08	1.95	1.56	—	—	—	IPP80N06S3-05
			4.5	80	320	165	IPP80N06S3L-05IN-ND◆	2.08	1.95	1.56	—	—	—	IPP80N06S3L-05
			7.6	80	320	105	IPP80N06S3L-08IN-ND◆	1.51	1.31	1.01	—	—	—	IPP80N06S3L-08
			4.1	100	400	214	IPP100N06S3-04IN-ND◆	2.58	2.42	1.94	—	—	—	IPP100N06S3-04
			2.7	100	400	300	IPP100N06S3L-03IN-ND◆	3.43	3.15	2.41	—	—	—	IPP100N06S3L-03
			3.5	100	400	214	IPP100N06S3L-04IN-ND◆	2.58	2.42	1.94	—	—	—	IPP100N06S3L-04
		60	11.7	75	300	158	IPP120N06NGIN-ND◆	1.62	1.52	1.22	—	—	—	IPP120N06N G
			11	78	312	158	IPP110N06LGIN-ND◆	1.62	1.52	1.22	—	—	—	IPP110N06L G
			7	80	320	214	IPP070N06LGIN-ND◆	2.24	2.10	1.68	—	—	—	IPP070N06L G
			6.7	80	320	250	IPP070N06NGIN-ND◆	2.52	2.37	1.89	—	—	—	IPP070N06N G
			8.2	80	320	188	IPP085N06LGIN-ND◆	1.94	1.82	1.46	—	—	—	IPP085N06L G
			4.4	100	400	300	IPP048N06LGIN-ND◆	3.32	3.05	2.33	—	—	—	IPP048N06L G
			4.7	100	400	300	IPP050N06NGIN-ND◆	3.32	3.05	2.33	—	—	—	IPP050N06N G
TO-262	N-CH	55	24.8	25	100	48	IPI25N06S3-25IN-ND◆	1.09	.85	.66	—	—	—	IPI25N06S3-25
			15.4	45	180	65	IPI45N06S3-16IN-ND◆	1.15	1.00	.77	—	—	—	IPI45N06S3-16
			13.1	45	180	65	IPI45N06S3L-13IN-ND◆	1.15	1.00	.77	—	—	—	IPI45N06S3L-13
			8.8	77	308	107	IPI77N06S3-09IN-ND◆	1.48	1.29	.99	—	—	—	IPI77N06S3-09
			5.1	80	320	165	IPI80N06S3-05IN-ND◆	2.08	1.95	1.56	—	—	—	IPI80N06S3-05
			6.5	80	320	135	IPI80N06S3-07IN-ND◆	1.62	1.53	1.22	—	—	—	IPI80N06S3-07
			4.5	80	320	165	IPI80N06S3L-05IN-ND◆	2.08	1.95	1.56	—	—	—	IPI80N06S3L-05
			5.6	80	320	136	IPI80N06S3L-06IN-ND◆	1.62	1.53	1.22	—	—	—	IPI80N06S3L-06
			7.6	80	320	105	IPI80N06S3L-08IN-ND◆	1.51	1.31	1.01	—	—	—	IPI80N06S3L-08
			4.1	100	400	214	IPI100N06S3-04IN-ND◆	2.58	2.42	1.94	—	—	—	IPI100N06S3-04
			2.7	100	400	300	IPI100N06S3L-03IN-ND◆	3.43	3.15	2.41	—	—	—	IPI100N06S3L-03
			3.5	100	400	214	IPI100N06S3L-04IN-ND◆	2.58	2.42	1.94	—	—	—	IPI100N06S3L-04
D-PAK	N-CH	30	6.7	30	120	136	SPD30N03S2L07INCT-ND	1.40	1.11	.95	—	—	—	SPD30N03S2L-07
			20	30	120	60	SPD30N03S2L20INCT-ND	.78	.61	.53	—	—	—	SPD30N03S2L-20
			10	30	120	100	SPD30N03S2L10INCT-ND	1.03	.80	.69	—	—	—	SPD30N03S2L-10
			6.4	50	200	136	SPD50N03S2L06INCT-ND◆	1.87	1.48	1.27	—	—	—	SPD50N03S2L-06
			6.4	50	200	136	SPD50N03S2L06XTINCT-ND◆	2.49	1.96	1.67	SPD50N03S2L06XTINTR-ND◆	2,500	771.04/M	SPD50N03S2L-06T
			4.2	100	400	150	SPD100N03S2L-INCT-ND	2.08	1.74	1.46	SPD100N03S2L-INTR-ND	2,500	902.46/M	SPD100N03S2L-04
D2-PAK	N-CH	30	12.9	42	248	83	SPB42N03S2L13INCT-ND	.98	.85	.66	SPB42N03S2L13INTR-ND	1,000	402.60	SPB42N03S2L-13
			5.9	80	320	150	SPB80N03S2L06INCT-ND	1.62	1.40	1.08	—	—	—	SPB80N03S2L-06
			3	100	400	300	SPB100N03S203XTINCT-ND◆	4.74	3.90	3.29	—	—	—	SPB100N03S203T
TO-252	P-CH	-30	7	-50	-200	150	SPD50P03LGINCT-ND◆	2.96	2.33	1.98	SPD50P03LGINTR-ND◆	2,500	914.94/M	SPD50P03L G
	N-CH	60	80	16	64	47	IPD800N06NGINCT-ND◆	.81	.63	.54	IPD800N06NGINTR-ND◆	2,500	250.74/M	IPD800N06N G
			64	18	72	47	IPD640N06LGINCT-ND◆	.86	.67	.58	IPD640N06LGINTR-ND◆	2,500	266.56/M	IPD640N06L G
			40	27	108	68	IPD400N06NGINCT-ND◆	.97	.76	.65	IPD400N06NGINTR-ND◆	2,500	302.12/M	IPD400N06N G
			12.7	50	200	136	IPD127N06LGINCT-ND◆	1.63	1.29	1.10	IPD127N06LGINTR-ND◆	2,500	510.98/M	IPD127N06L G
			14.4	50	200	136	IPD144N06NGINCT-ND◆	1.63	1.29	1.10	IPD144N06NGINTR-ND◆	2,500	510.98/M	IPD144N06N G
SO-8	P-CH	-20	21	-8.2	-32.8	2	BSO203PINCT-ND*	2.11	1.67	1.43	—	—	—	BSO203P
			21	-9	-36	2.35	BSO203SPINCT-ND§	1.39	1.11	.95	—	—	—	BSO203SP
		-30	21	-8.9	-35.6	2.35	BSO303SPINCT-ND§	1.39	1.11	.95	—	—	—	BSO303SP
	N-CH	30	20	8	32	2	BSO4804INCT-ND*◆	1.17	.93	.79	—	—	—	BSO4804
			20	8	32	2	BSO4804XTINCT-ND*◆	1.68	1.34	1.14	BSO4804XTINTR-ND*◆	2,500	528.40/M	BSO4804T
			13	11.1	44.5	2.5	BSO4410INCT-ND§	.95	.75	.64	—	—	—	BSO4410
			13	11.1	44.5	2.5	BSO4410XTINCT-ND§◆	1.31	1.04	.89	BSO4410XTINTR-ND§◆	2,500	411.08/M	BSO4410T
			10	12.7	51	2.5	BSO4822INCT-ND§◆	1.06	.83	.71	—	—	—	BSO4822
			7.8	13	52	2.5	BSO4420INCT-ND§	1.29	1.02	.87	—	—	—	BSO4420
			7.8	13	52	2.5	BSO4420XTINCT-ND§◆	1.85	1.47	1.25	BSO4420XTINTR-ND§◆	2,500	581.58/M	BSO4420T
SOT-23	N-CH	55	650	0.54	2.2	0.36	BSS670S2LINCT-ND◆	.50	.36	.22	—	—	—	BSS670S2L
SOT-323	P-CH	-20	1.2	-0.39	-1.56	0.25	BSS223PWINCT-ND◆	.94	.73	.63	BSS223PWINTR-ND◆	3,000	92.16/M	BSS223PW
SOT-363	P-CH	-20	175	-1.5	-6	0.56	BSV236SPINCT-ND§	.54	.40	.32	BSV236SPINTR-ND§	3,000	143.40/M	BSV236SP
			1,200	-0.39	-1.56	0.25	BSD223PINCT-ND*	.43	.33	.22	—	—	—	BSD223P
TO-263	N-CH	55	15.4	45	180	65	IPB45N06S3-16INCT-ND◆	1.31	1.04	.89	IPB45N06S3-16INTR-ND◆	1,000	458.10	IPB45N06S3-16
			13.1	45	180	65	IPB45N06S3L-13INCT-ND◆	1.31	1.04	.89	IPB45N06S3L-13INTR-ND◆	1,000	458.10	IPB45N06S3L-13
			4.5	80	320	165	IPB80N06S3L-05INCT-ND◆	2.73	2.15	1.82	IPB80N06S3L-05INTR-ND◆	1,000	892.65	IPB80N06S3L-05
			5.6	80	320	136	IPB80N06S3L-06INCT-ND◆	2.13	1.68	1.42	IPB80N06S3L-06INTR-ND◆	1,000	696.99	IPB80N06S3L-06
			4.1	100	400	214	IPB100N06S3-04INCT-ND◆	3.38	2.66	2.26	IPB100N06S3-04INTR-ND◆	1,000	1107.29	IPB100N06S3-04
			3.5	100	400	214	IPB100N06S3L-04INCT-ND◆	3.38	2.66	2.26	IPB100N06S3L-04INTR-ND◆	1,000	1107.29	IPB100N06S3L-04
		60	11.7	75	300	158	IPB120N06NGINCT-ND◆	2.12	1.67	1.42	IPB120N06NGINTR-ND◆	1,000	694.79	IPB120N06N G
			11	78	312	158	IPB110N06LGINCT-ND◆	2.12	1.67	1.42	IPB110N06LGINTR-ND◆	1,000	694.79	IPB110N06L G
			7	80	320	214	IPB070N06LGINCT-ND◆	3.26	2.57	2.18	IPB070N06LGINTR-ND◆	1,000	1068.79	IPB070N06L G
			7.7	80	320	214	IPB080N06NGINCT-ND◆	2.94	2.31	1.96	IPB080N06NGINTR-ND◆	1,000	961.95	IPB080N06N G
			8.2	80	320	188	IPB085N06LGINCT-ND◆	2.57	2.02	1.72	IPB085N06LGINTR-ND◆	1,000	841.78	IPB085N06L G
			4.4	100	400	300	IPB048N06LGINCT-ND◆	4.24	3.49	2.94	IPB048N06LGINTR-ND◆	1,000	1469.07	IPB048N06L G
			4.7	100	400	300	IPB050N06NGINCT-ND◆	4.24	3.49	2.94	IPB050N06NGINTR-ND◆	1,000	1469.07	IPB050N06N G
TSOP-6	P-CH	-20	41	-6	-24	2	BSL207SPXTINCT-ND◆	.79	.58	.47	BSL207SPXTINTR-ND◆	3,000	211.80/M	BSL207SP L6327
			67	-4.7	-18.8	2	BSL211SPINCT-ND	.65	.48	.39	—	—	—	BSL211SP
			67	-4.7	-18.8	2	BSL211SPL6327INCT-ND◆	.69	.51	.41	BSL211SPL6327INTR-ND◆	3,000	184.05/M	BSL211SP L6327
			67	-4.7	-18.8	2	BSL211SPXTINCT-ND◆	.65	.48	.39	BSL211SPXTINTR-ND◆	3,000	173.10/M	BSL211SPT
		-30	43	-5.5	-22	2	BSL307SPL6327INCT-ND◆	.82	.61	.49	BSL307SPL6327INTR-ND◆	3,000	220.65/M	BSL307SP L6327

* Dual   § Single   ◆ ***RoHS Compliant***

(Continued)

OptiMOS® 2

Package	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-220AB	N-CH	25	13.6	30	210	46	IPP14N03LAIN-ND◆	1.17	1.02	.79	—	—	—	IPP14N03LA
			5.9	50	350	83	IPP06N03LAIN-ND	1.68	1.46	1.13	—	—	—	IPP06N03LA
			2.7	80	385	150	IPP03N03LAIN-ND◆	2.80	2.63	2.11	—	—	—	IPP03N03LA
			3.9	80	385	107	IPP04N03LAIN-ND	2.00	1.88	1.50	—	—	—	IPP04N03LA
			4.6	80	385	94	IPP05N03LAIN-ND	1.65	1.55	1.24	—	—	—	IPP05N03LA
TO-220	N-CH	30	9.9	50	200	58	IPP10N03LBGIN-ND◆	1.42	1.23	.95	—	—	—	IPP10N03LB G
			3.1	80	320	150	IPP03N03LBGIN-ND◆	3.08	2.89	2.32	—	—	—	IPP03N03LB G
			5.3	80	320	94	IPP05N03LBGIN-ND◆	1.81	1.70	1.37	—	—	—	IPP05N03LB G
		100	49	20	80	44	IPP50CN10NGIN-ND◆	1.46	1.27	.98	—	—	—	IPP50CN10N G
			16	53	212	100	IPP16CN10NGIN-ND◆	2.05	1.93	1.54	—	—	—	IPP16CN10N G
			8.2	95	380	167	IPP08CN10NGIN-ND◆	3.03	2.78	2.13	—	—	—	IPP08CN10N G
			5.1	100	400	300	IPP05CN10NGIN-ND◆	5.13	4.71	3.60	—	—	—	IPP05CN10N G
		600	299	11	34	96	IPP60R299CPIN-ND◆	3.08	2.89	2.32	—	—	—	IPP60R299CP
			99	31	93	255	IPP60R099CPIN-ND◆	8.25	7.65	5.81	—	—	—	IPP60R099CP
TO-220-3	N-CH	100	3.9	100	400	300	IPP04CN10NGIN-ND◆ ***NEW!***	6.70	6.15	4.70	—	—	—	IPP04CN10NG
TO-251	N-CH	25	5.9	30	210	94	IPU06N03LAGIN-ND	1.57	1.37	1.05	—	—	—	IPU06N03LAG
			6.5			83	IPU07N03LAIN-ND	1.33	1.16	.89	—	—	—	IPU07N03LA
			9.3			63	IPU09N03LAGIN-ND◆	1.35	1.17	.90	—	—	—	IPU09N03LAG
			12.8			47	IPU13N03LAGIN-ND◆	1.17	1.02	.79	—	—	—	IPU13N03LAG
TO-262AB	N-CH	25	3.9	80	385	107	IPI04N03LAIN-ND	1.80	1.56	1.20	—	—	—	IPI04N03LA
D2-PAK	N-CH	25	13.6	30	210	46	IPB14N03LAINCT-ND	.97	.76	.65	—	—	—	IPB14N03LA
			5.9	50	350	83	IPB06N03LAINCT-ND	1.93	1.53	1.31	IPB06N03LAINTR-ND	1,000	672.45	IPB06N03LA
			8.9	50	350	63	IPB09N03LAINCT-ND	1.26	1.00	.85	—	—	—	IPB09N03LA
			3.9	80	385	107	IPB04N03LAINCT-ND	2.44	1.92	1.63	IPB04N03LAINTR-ND	1,000	798.33	IPB04N03LA
			3.9	80	385	107	IPB04N03LAXTINCT-ND◆	2.44	1.92	1.63	IPB04N03LAXTINTR-ND◆	1,000	798.33	IPB04N03LAT
			4.6	80	385	94	IPB05N03LAINCT-ND	2.16	1.70	1.45	IPB05N03LAINTR-ND	1,000	708.13	IPB05N03LA
			4.6	80	385	94	IPB05N03LAXTINCT-ND◆	2.16	1.70	1.45	IPB05N03LAXTINTR-ND◆	1,000	708.13	IPB05N03LAT
TO-252	N-CH	25	13	30	210	46	IPD13N03LAGINCT-ND◆	1.22	.97	.83	IPD13N03LAGINTR-ND◆	2,500	382.73/M	IPD13N03LAG
			3.2	90	360	115	IPD03N03LAGINCT-ND◆	3.55	2.79	2.37	IPD03N03LAGINTR-ND◆	2,500	1097.46/M	IPD03N03LA G
		30	11.6	30	120	52	IPD12N03LBGINCT-ND◆	1.27	1.01	.86	IPD12N03LBGINTR-ND◆	2,500	397.98/M	IPD12N03LB G
			6.0	50	350	71	IPDH6N03LAGINCT-ND◆	1.79	1.42	1.22	IPDH6N03LAGINTR-ND◆	2,500	563.36/M	IPDH9N03LAG
			3.8	50	350	115	IPD04N03LAGINCT-ND◆	2.01	1.59	1.36	—	—	—	IPD04N03LAG
			4.1	50	200	115	IPD04N03LBGINCT-ND◆	2.59	2.04	1.73	IPD04N03LBGINTR-ND◆	2,500	802.88/M	IPD04N03LB G
			5.7	50	350	83	IPD06N03LAGINCT-ND◆	1.79	1.42	1.22	IPD06N03LAGINTR-ND◆	2,500	563.36/M	IPD06N03LAG
			6.1	50	200	83	IPD06N03LBGINCT-ND◆	1.97	1.57	1.34	IPD06N03LBGINTR-ND◆	2,500	619.92/M	IPD06N03LB G
			8.6	50	350	63	IPD09N03LAGINCT-ND	1.41	1.12	.96	IPD09N03LAGINTR-ND	2,500	444.02/M	IPD09N03LAG
			3.3	90	360	115	IPD03N03LBGINCT-ND◆	3.90	3.07	2.61	IPD03N03LBGINTR-ND◆	2,500	1207.18/M	IPD03N03LB G
			3.8	90	350	115	IPDH4N03LAGINCT-ND◆	2.36	1.86	1.58	IPDH4N03LAGINTR-ND◆	2,500	729.56/M	IPDH4N03LAG
D-PAK Bent up Leads	N-CH	25	13.3	30	210	46	IPF13N03LAGINCT-ND	1.22	.97	.83	IPF13N03LAGINTR-ND	2,500	382.73/M	IPF13N03LAG
			5.4	50	350	94	IPF05N03LAGINCT-ND◆	2.08	1.65	1.41	IPF05N03LAGINTR-ND◆	2,500	653.40/M	IPF05N03LAG
DSO-8	N-CH	30	35	5	24	1.4	BSO350N03INCT-ND◆	1.52	1.21	1.03	BSO350N03INTR-ND◆	2,500	477.50/M	BSO350N03
			30	5.7	29	1.56	BSO300N03SINCT-ND◆	.92	.72	.62	BSO300N03SINTR-ND◆	2,500	286.30/M	BSO300N03S
			20	6.6	32	1.4	BSO200N03INCT-ND◆	1.42	1.13	.96	BSO200N03INTR-ND◆	2,500	445.37/M	BSO200N03
			20	7	35	1.56	BSO200N03SINCT-ND◆	.97	.76	.65	BSO200N03SINTR-ND◆	2,500	301.00/M	BSO200N03S
			15	7.6	36	1.4	BSO150N03INCT-ND◆	2.12	1.68	1.43	BSO150N03INTR-ND◆	2,500	664.34/M	BSO150N03
			11.9	9	44	1.56	BSO119N03SINCT-ND◆	1.16	.92	.78	BSO119N03SINTR-ND◆	2,500	362.75/M	BSO119N03S
			6.8	12	60	1.56	BSO072N03SINCT-ND◆	1.80	1.43	1.22	BSO072N03SINTR-ND◆	2,500	564.30/M	BSO072N03S
			5.2	14	68	1.56	BSO052N03SINCT-ND◆	2.14	1.69	1.45	BSO052N03SINTR-ND◆	2,500	670.68/M	BSO052N03S
SUPERSO8	N-CH	30	7.9	40	160	60	BSC079N03SGINCT-ND◆	2.14	1.69	1.43	BSC079N03SGINTR-ND◆	5,000	650.38/M	BSC079N03SG
			2.2	100	200	104	BSC022N03SGINCT-ND◆	4.17	3.28	2.79	BSC022N03SGINTR-ND◆	5,000	1266.59/M	BSC022N03SG
			3.2	100	200	78	BSC032N03SGINCT-ND◆	3.15	2.48	2.11	BSC032N03SGINTR-ND◆	5,000	957.27/M	BSC032N03SG
TDSON-8	N-CH	25	4.8	89	200	63	BSC048N025SGINCT-ND◆	2.46	1.94	1.64	BSC048N025SGINTR-ND◆	5,000	746.01/M	BSC048N025S G
			2.0	100	200	104	BSC020N025SGINCT-ND◆	3.99	3.28	2.77	BSC020N025SGINTR-ND◆	5,000	1305.60/M	BSC020N025S G
			2.9	100	200	78	BSC029N025SGINCT-ND◆	3.15	2.48	2.11	BSC029N025SGINTR-ND◆	5,000	957.27/M	BSC029N025S G
		30	11.9	30	120	43	BSC119N03SGINCT-ND◆	1.99	1.58	1.35	BSC119N03SGINTR-ND◆	5,000	601.64/M	BSC119N03S G
			5.5	73	200	48	BSC059N03SGINCT-ND◆	2.15	1.69	1.44	BSC059N03SGINTR-ND◆	5,000	652.93/M	BSC059N03S G
			4.2	95	200	62.5	BSC042N03SGINCT-ND◆	2.51	1.98	1.68	BSC042N03SGINTR-ND◆	5,000	762.84/M	BSC042N03S G
TO-263	N-CH	25	6.2	50	350	71	IPBH6N03LAGINCT-ND◆	2.12	1.68	1.44	IPBH6N03LAGINTR-ND◆	1,000	740.10	IPBH6N03LA G
			2.7	80	385	150	IPB03N03LAGINCT-ND◆	3.68	2.89	2.46	IPB03N03LAGINTR-ND◆	1,000	1203.40	IPB03N03LA G
			3.9	80	385	107	IPB04N03LAGINCT-ND◆	2.62	2.06	1.75	IPB04N03LAGINTR-ND◆	1,000	857.45	IPB04N03LA G
		30	12.5	30	120	52	IPB13N03LBGINCT-ND◆	1.51	1.20	1.02	IPB13N03LBGINTR-ND◆	1,000	527.40	IPB13N03LB G
			2.8	80	320	150	IPB03N03LBGINCT-ND◆	4.04	3.18	2.70	IPB03N03LBGINTR-ND◆	1,000	1323.71	IPB03N03LB G
			5.0	80	320	94	IPB05N03LBGINCT-ND◆	2.38	1.87	1.59	IPB05N03LBGINTR-ND◆	1,000	778.80	IPB05N03LB G
		55	2.7	100	400	300	IPB100N06S3L-03INCT-ND◆	4.26	3.50	2.95	IPB100N06S3L-03INTR-ND◆	1,000	1473.12	IPB100N06S3L-03

◆ *RoHS Compliant*

NEW! OptiMOS® 3

Package	Type	Vds (V)	Rds on (mΩ)	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-252-3	N-CH	30	6	50	350	56	IPD060N03LGINCT-ND	1.18	.94	.80	IPD060N03LGINTR-ND	2,500	370.04/M	IPD060N03LG
			9	40	280	42	IPD090N03LGINCT-ND	.96	.75	.65	IPD090N03LGINTR-ND	2,500	299.18/M	IPD090N03LG
			13.5	30	210	31	IPD135N03LGINCT-ND	.85	.66	.57	IPD135N03LGINTR-ND	2,500	263.76/M	IPD135N03LG
TO-252-3-11	N-CH	30	3.1	90	400	94	IPD031N03LGINCT-ND	2.61	2.06	1.75	IPD031N03LGINTR-ND	2,500	808.48/M	IPD031N03LG
			4	90	400	79	IPD040N03LGINCT-ND	1.90	1.50	1.28	IPD040N03LGINTR-ND	2,500	595.49/M	IPD040N03LG
			5	50	350	68	IPD050N03LGINCT-ND	1.78	1.41	1.21	IPD050N03LGINTR-ND	2,500	558.90/M	IPD050N03LG
			7.5	50	350	47	IPD075N03LGINCT-ND	1.13	.88	.76	IPD075N03LGINTR-ND	2,500	350.98/M	IPD075N03LG
			10.5	35	245	38	IPD105N03LGINCT-ND	.96	.75	.65	IPD105N03LGINTR-ND	2,500	299.18/M	IPD105N03LG
TDSON-8	N-CH	30	2	100	400	125	BSC016N03MSGINCT-ND	3.60	2.83	2.40	BSC016N03MSGINTR-ND	5,000	1092.68/M	BSC016N03MSG
			2.5	100	400	96	BSC020N03MSGINCT-ND	3.00	2.36	2.00	BSC020N03MSGINTR-ND	5,000	909.46/M	BSC020N03MSG
			2.5	100	400	83	BSC025N03LSGINCT-ND	2.66	2.10	1.78	BSC025N03LSGINTR-ND	5,000	807.72/M	BSC025N03LSG
			3	100	400	83	BSC025N03MSGINCT-ND	2.53	1.99	1.69	BSC025N03MSGINTR-ND	5,000	768.19/M	BSC025N03MSG
			3.5	40	160	69	BSZ035N03LSGINCT-ND	2.23	1.76	1.49	BSZ035N03LSGINTR-ND	5,000	677.92/M	BSZ035N03LSG
			3.8	100	400	69	BSC030N03MSGINCT-ND	2.16	1.71	1.46	BSC030N03MSGINTR-ND	5,000	651.82/M	BSC030N03MSG
			4.2	93	372	57	BSC042N03LSGINCT-ND	1.86	1.48	1.26	BSC042N03LSGINTR-ND	5,000	563.42/M	BSC042N03LSG
			4.3	40	160	69	BSZ035N03MSGINCT-ND	2.12	1.67	1.42	BSZ035N03MSGINTR-ND	5,000	642.60/M	BSZ035N03MSG
			5.4	93	372	57	BSC042N03MSGINCT-ND	1.81	1.43	1.22	BSC042N03MSGINTR-ND	5,000	545.74/M	BSC042N03MSG
			5	40	160	50	BSZ050N03LSGINCT-ND	1.66	1.32	1.12	BSZ050N03LSGINTR-ND	5,000	501.54/M	BSZ050N03LSG
			5	80	320	50	BSC050N03LSGINCT-ND	1.75	1.39	1.18	BSC050N03LSGINTR-ND	5,000	527.93/M	BSC050N03LSG
			6.3	80	320	50	BSC050N03MSGINCT-ND	1.68	1.33	1.14	BSC050N03MSGINTR-ND	5,000	507.78/M	BSC050N03MSG
			5.7	71	284	45	BSC057N03LSGINCT-ND	1.65	1.31	1.12	BSC057N03LSGINTR-ND	5,000	500.24/M	BSC057N03LSG

(Continued)

infineon Mosfets *NEW!* OptiMOS® 3 *(Cont.)*

Digi-Reel® RoHS

Package	Type	Vds (V)	Rds on (mΩ)	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TDSON-8	N-CH	30	6.4	40	160	48	BSZ050N03MSGINCT-ND	1.58	1.25	1.07	BSZ050N03MSGINTR-ND	5,000	477.62/M	BSZ050N03MSG
			5.8	40	160	45	BSZ058N03LSGINCT-ND	1.62	1.28	1.10	BSZ058N03LSGINTR-ND	5,000	489.58/M	BSZ058N03LSG
			7.2	40	160	45	BSZ058N03MSGINCT-ND	1.46	1.16	.99	BSZ058N03MSGINTR-ND	5,000	441.61/M	BSZ058N03MSG
			7.2	71	284	45	BSC057N03MSGINCT-ND	1.59	1.26	1.08	BSC057N03MSGINTR-ND	5,000	479.96/M	BSC057N03MSG
			8	53	212	35	BSC080N03LSGINCT-ND	1.40	1.11	.95	BSC080N03LSGINTR-ND	5,000	421.85/M	BSC080N03LSG
			8.8	40	160	35	BSZ088N03LSGINCT-ND	1.25	1.00	.85	BSZ088N03LSGINTR-ND	5,000	379.21/M	BSZ088N03LSG
			10	40	160	30	BSZ100N03LSGINCT-ND	1.18	.94	.80	BSZ100N03LSGINTR-ND	5,000	357.63/M	BSZ100N03LSG
			10.2	53	212	35	BSC080N03MSGINCT-ND	1.36	1.08	.92	BSC080N03MSGINTR-ND	5,000	411.84/M	BSC080N03MSG
			9	48	192	32	BSC090N03LSGINCT-ND	1.30	1.04	.88	BSC090N03LSGINTR-ND	5,000	394.16/M	BSC090N03LSG
			10	44	176	30	BSC100N03LSGINCT-ND	1.27	1.01	.86	BSC100N03LSGINTR-ND	5,000	384.02/M	BSC100N03LSG
			11	40	160	35	BSZ088N03MSGINCT-ND	1.19	.95	.81	BSZ088N03MSGINTR-ND	5,000	360.10/M	BSZ088N03MSG
			11.2	48	192	32	BSC090N03MSGINCT-ND	1.22	.97	.83	BSC090N03MSGINTR-ND	5,000	368.94/M	BSC090N03MSG
			12	39	156	28	BSC120N03LSGINCT-ND	1.22	.97	.83	BSC120N03LSGINTR-ND	5,000	352.04/M	BSC120N03LSG
			12	44	176	30	BSC100N03MSGINCT-ND	1.22	.97	.83	BSC100N03MSGINTR-ND	5,000	368.94/M	BSC100N03MSG
			13	35	140	25	BSZ130N03LSGINCT-ND	1.11	.88	.75	BSZ130N03LSGINTR-ND	5,000	336.05/M	BSZ130N03LSG
			13	40	160	30	BSZ100N03MSGINCT-ND	1.13	.90	.77	BSZ100N03MSGINTR-ND	5,000	340.86/M	BSZ100N03MSG
			14	39	156	28	BSC120N03MSGINCT-ND	1.18	.94	.80	BSC120N03MSGINTR-ND	5,000	356.33/M	BSC120N03MSG
			17	35	140	25	BSZ130N03MSGINCT-ND	1.10	.86	.74	BSZ130N03MSGINTR-ND	5,000	326.52/M	BSZ130N03MSG

SIPMOS®

Digi-Reel®

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								1	10	100		Qty.	Pricing	
TO-220AB	P-CH	-60	0.023	-80	-320	340	SPP80P06PIN-ND◆	3.59	3.30	2.52	—	—	—	SPP80P06P
		-100	0.24	-15	-60	128	SPP15P10PIN-ND◆	1.77	1.67	1.33	—	—	—	SPP15P10P
	N-CH	200	0.6	5.5	22	40	BUZ73AIN-ND◆	1.27	1.10	.85	—	—	—	BUZ73A
			0.6	5.5	22	40	BUZ73ALIN-ND◆	1.32	1.14	.88	—	—	—	BUZ73AL
			0.4	7	28	40	BUZ73LIN-ND◆	1.22	1.06	.82	—	—	—	BUZ73L
			0.4	9.5	38	75	BUZ32IN-ND◆	1.80	1.57	1.21	—	—	—	BUZ32
			0.4	9.5	38	75	BUZ32L3045AIN-ND◆	1.80	1.57	1.21	—	—	—	BUZ32 L3045A
			0.2	13.5	54	95	BUZ31LIN-ND◆	1.97	1.85	1.48	—	—	—	BUZ31L
			0.2	14.5	58	95	BUZ31IN-ND◆	1.79	1.68	1.35	—	—	—	BUZ31
			0.13	21	84	125	BUZ30AL3045AINCT-ND◆	3.16	2.49	2.11	BUZ30AL3045AINTR-ND◆	1,000	1034.00	BUZ30A L3045A
		100	.08	21	84	90	SPP21N10IN-ND◆	1.84	1.73	1.38	—	—	—	SPP21N10
			.044	35	140	150	SPP35N10IN-ND◆	2.04	1.92	1.54	—	—	—	SPP35N10
TO-220	N-CH	100	.016	70	280	250	SPP70N10LIN-ND	3.20	3.00	2.40	—	—	—	SPP70N10L
TO-251	P-CH	-60	0.3	-8.8	-35.2	42	SPU08P06PIN-ND◆	1.11	.87	.67	—	—	—	SPU08P06P
			0.25	-9.7	-38.8	42	SPU09P06PLIN-ND◆	.95	.83	.64	—	—	—	SPU09P06PL
			0.13	-18.6	-74.4	80	SPU18P06PIN-ND◆	1.38	1.20	.92	—	—	—	SPU18P06P
			0.075	-30	-120	125	SPU30P06PIN-ND◆	1.83	1.59	1.23	—	—	—	SPU30P06P
TO-262	N-CH	100	.080	21	84	90	SPI21N10IN-ND◆	1.84	1.73	1.38	—	—	—	SPI21N10
D-PAK	P-CH	-60	0.25	-9.7	-38.8	42	SPD09P06PLINCT-ND◆	1.09	.86	.74	—	—	—	SPD09P06PL
			0.25	-9.7	-38.8	42	SPD09P06PLXTINCT-ND◆	.99	.77	.66	SPD09P06PLXTINTR-ND◆	2,500	306.46/M	SPD09P06PLT
			0.075	-30	-120	125	SPD30P06PINCT-ND◆	1.95	1.54	1.32	SPD30P06PINTR-ND◆	2,500	611.02/M	SPD30P06P
	N-CH	100	.044	35	140	150	SPD35N10INCT-ND◆	2.30	1.81	1.54	SPD35N10INTR-ND◆	2,500	711.76/M	SPD35N10
D2-PAK	N-CH	100	.044	35	140	150	SPB35N10INCT-ND	1.96	1.56	1.33	—	—	—	SPB35N10
TO-252	P-CH	-60	0.3	-8.8	-35.2	42	SPD08P06PGINCT-ND◆	.96	.75	.64	SPD08P06PGINTR-ND◆	2,500	298.48/M	SPD08P06P G
			0.13	-18.6	-74.4	80	SPD18P06PINCT-ND◆	1.67	1.32	1.13	SPD18P06PINTR-ND◆	2,500	524.21/M	SPD18P06P
	N-CH	200	0.4	7	28	40	SPD07N20INCT-ND◆	1.33	1.06	.90	SPD07N20INTR-ND◆	2,500	417.70/M	SPD07N20
SO-8	N-CH	60	0.15	2.6	10.4	2	BSO615NXTINCT-ND*◆	1.39	1.11	.95	BSO615NXTINTR-ND*◆	2,500	437.94/M	BSO615NT
	P/N-CH	-30/30	0.25/0.11	-2.3/3.4	-7.2/11.6	2/2	BSO315CINCT-ND*	1.12	.89	.76	—	—	—	BSO315C
		-60/60	0.3/0.12	-2/3	-8/12		BSO612CVXTINCT-ND§◆	1.12	.89	.76	BSO612CVXTINTR-ND§◆	2,500	351.28/M	BSO612CVT
		-60/60	0.3/0.11	-2/3.1	-8/12.4		BSO615CINCT-ND§	1.35	1.08	.92	—	—	—	BSO615C
		-60/60	0.3/0.11	-2/3.1	-8/12.4		BSO615CXTINCT-ND§◆	1.11	.88	.75	BSO615CXTINTR-ND§◆	2,500	347.90/M	BSO615CT
SOT-23	P-CH	-60	8	-0.17	-0.68	0.36	BSS84PL6327INCT-ND◆	.41	.30	.18	BSS84PL6327INTR-ND◆	3,000	66.00/M	BSS84P L6327
			2	-0.33	-1.32		BSS83PE6327INCT-ND◆	.48	.35	.21	BSS83PE6327INTR-ND◆	3,000	77.20/M	BSS83PE6327
	N-CH	60	5	0.2	0.8	0.36	BSS7728NINCT-ND◆	.63	.44	.21	—	—	—	BSS7728N
			5	0.2	0.8		SN7002NL6327INCT-ND◆	.57	.39	.19	SN7002NL6327INTR-ND◆	3,000	60.87/M	SN7002N L6327
			3.5	0.23	0.92		BSS138NL6327INCT-ND◆	.63	.43	.21	BSS138NL6327INTR-ND◆	3,000	67.21/M	BSS138N L6327
		100	6	0.17	0.68	0.36	BSS123L6327INCT-ND◆	.41	.30	.18	BSS123L6327INTR-ND◆	3,000	64.80/M	BSS123 L6327
SOT-89	P-CH	-250	12	-0.19	-0.76	1	BSS192PE6327INCT-ND◆	.78	.61	.52	—	—	—	BSS192PE6327
							BSS192PE6327XTINCT-ND◆	.77	.60	.52	BSS192PE6327XTINTR-ND◆	1,000	265.05	BSS192PE6327T
							BSS192PL6327INCT-ND◆	.77	.60	.52	BSS192PL6327INTR-ND◆	1,000	265.05	BSS192P L6327
	N-CH	240	6	0.26	1.04	1	BSS87L6327INCT-ND◆	.84	.66	.57	BSS87L6327INTR-ND◆	1,000	290.78	BSS87 L6327
SOT-223	P-CH	-60	0.8	-1.17	-4.68	1.8	BSP315PL6327INCT-ND◆	.71	.55	.48	BSP315PL6327INTR-ND◆	1,000	243.66	BSP315P L6327
			0.3	-1.9	-7.6		BSP170PL6327INCT-ND◆	.83	.65	.56	BSP170PL6327INTR-ND◆	1,000	285.82	BSP170P L6327
			0.3	-1.9	-7.6		BSP171PL6327INCT-ND◆	.97	.76	.65	BSP171PL6327INTR-ND◆	1,000	335.11	BSP171P L6327
			0.13	-2.9	-11.6		BSP613PL6327INCT-ND◆	1.27	1.01	.86	BSP613PL6327INTR-ND◆	1,000	441.45	BSP613P L6327
		-100	1.8	-0.68	-2.72	1.8	BSP316PE6327XTINCT-ND◆	.76	.60	.51	—	—	—	BSP316PE6327T
							BSP316PL6327INCT-ND◆	.76	.60	.51	BSP316PL6327INTR-ND◆	1,000	262.26	BSP316P L6327
		-250	12	-0.26	-1.04	1.8	BSP92PL6327INCT-ND◆	.84	.62	.50	BSP92PL6327INTR-ND◆	1,000	239.84	BSP92P L6327
			4	-0.43	-1.72		BSP317PL6327INCT-ND◆	1.11	.88	.75	BSP317PL6327INTR-ND◆	1,000	385.65	BSP317P L6327
	N-CH	60	0.3	1.8	7.2	1.8	BSP295L6327INCT-ND◆	.94	.73	.63	BSP295L6327INTR-ND◆	1,000	322.71	BSP295 L6327
			0.09	2.6	10.4		BSP318SL6327INCT-ND◆	.76	.59	.51	BSP318SL6327INTR-ND◆	1,000	260.71	BSP318S L6327
		100	6	0.37	1.48	1.79	BSP123INCT-ND◆	.63	.47	.38	BSP123INTR-ND◆	1,000	181.12	BSP123 L6327
			0.7	1.1	4.4	1.79	BSP296L6327INCT-ND	.94	.73	.63	BSP296L6327INTR-ND	1,000	322.71	BSP296 L6327
			0.31	1.7	6.8	1.8	BSP372L6327INCT-ND◆	.94	.74	.63	BSP372L6327INTR-ND◆	1,000	323.80	BSP372 L6327
			0.3	1.7	6.8	1.8	BSP373L6327INCT-ND◆	.94	.74	.63	BSP373L6327INTR-ND◆	1,000	323.80	BSP373 L6327
		200	1.8	0.66	2.64	1.8	BSP297L6327INCT-ND◆	.87	.68	.59	BSP297L6327INTR-ND◆	1,000	300.39	BSP297 L6327
			3.5	0.66	2.6		BSP149L6327INCT-ND◆	1.18	.94	.80	BSP149L6327INTR-ND◆	1,000	412.05	BSP149 L6327
		240	6	0.35	1.4	1.8	BSP88L6327INCT-ND◆	.73	.57	.49	BSP88L6327INTR-ND◆	1,000	250.02	BSP88 L6327
							BSP89L6327INCT-ND◆	.69	.54	.46	BSP89L6327INTR-ND◆	1,000	236.38	BSP89 L6327
SOT-323	P-CH	-60	8	-0.15	-0.6	0.3	BSS84PWINCT-ND◆	.42	.31	.18	—	—	—	BSS84PW
TO-263	P-CH	-60	0.3	-8.8	-35.2	42	SPB08P06PGINCT-ND◆	1.11	.88	.75	SPB08P06PGINTR-ND◆	1,000	387.90	SPB08P06P G
			0.13	-18.6	-74.4	80	SPB18P06PGINCT-ND◆	1.63	1.30	1.11	SPB18P06PGINTR-ND◆	1,000	569.70	SPB18P06P G
			0.023	-80	-320	340	SPB80P06PGINCT-ND◆	4.78	3.93	3.31	SPB80P06PGINTR-ND◆	1,000	1654.70	SPB80P06P G
	N-CH	100	.154	10.3	42.2	50	SPB10N10LGINCT-ND◆	1.56	1.24	1.06	SPB10N10LGINTR-ND◆	1,000	544.65	SPB10N10L G
			.014	80	320	250	SPB80N10LGINCT-ND◆	4.18	3.44	2.90	SPB80N10LGINTR-ND◆	1,000	1448.55	SPB80N10L G

* Dual § Single ◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Diodes and Transistors

Fig. 1

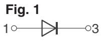

Fig. 2

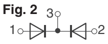

Fig. 3

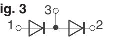

Fig. 4

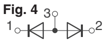

Fig. 5

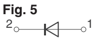

Fig. 6

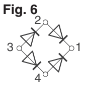

Fig. 7

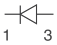

Fig. 8

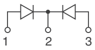

Fig. 9

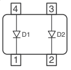

Fig. 10

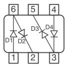

Fig. 11

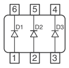

Fig. 12

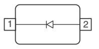

Fig. 13

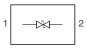

Fig. 14

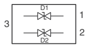

Fig. 15 ***NEW!***

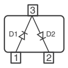

Fig. 16 ***NEW!***

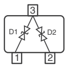

Fig. 17 ***NEW!***

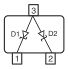

Fig. 18 ***NEW!***

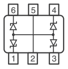

Fig. 19 ***NEW!***

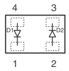

Transistor Pin Out

Pkg.	Pin 1	Pin 2	Pin 3	Pin 4
SOT-23	B	E	C	—
SOT-89	B	C	E	—

SOT-23

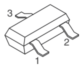

SOT-89

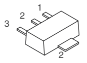

TO-220-2-2

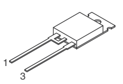

TO-220-3-1

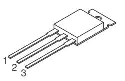

TSLP-2-7

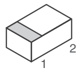

TSLP-3-1

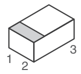

NEW! TSLP-4-7

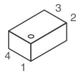

NEW! TSSLP-2-1

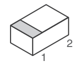

SC-74

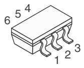

SC-79

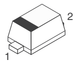

SCD-80

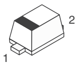

SOD-323

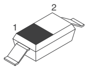

SOT-143

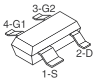

SOT-323

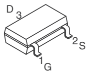

SOT-363

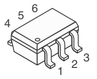

Silicon Switching Diodes

Fig.	Package	Forward Current If (mA)	Surge Current Ifsm (A)	Reverse Voltage (Vr)	Max. For. Voltage (Vf)	Recovery Time Trr (ns)	P_{tot} (mW)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Infineon Part No.
1	SOT-23	250	4.5	75	0.715	4	370	MMBD914LT1INCT-ND◆	2.23	9.70	32.00	MMBD914LT1INTR-ND◆	3,000	26.00/M	MMBD914LT1
		250	0.625	200	1	50	350	BAS21INCT-ND	2.55	11.10	36.08	BAS21INTR-ND	3,000	29.97/M	BAS21E6327
		120	0.2	40	1	0.1	250	BAS40INCT-ND◆	3.75	17.50	67.50	BAS40INTR-ND◆	3,000	58.75/M	BAS40E6327
		70	0.1	70	1	0.1	250	BAS70INCT-ND◆	3.75	17.50	67.50	BAS70INTR-ND◆	3,000	58.75/M	BAS70E6327
		250	4.5	75	1.2	4	370	SMBD914INCT-ND◆	2.81	12.20	39.65	SMBD914INTR-ND◆	3,000	32.94/M	SMBD914E6327
		250	4.5	75	1.2	6	370	BAS16INCT-ND◆	2.28	9.90	32.00	BAS16INTR-ND◆	3,000	27.00/M	BAS16E6327
		250	4.5	80	1.25	4	370	BAS16B5003INCT-ND◆	2.35	10.20	33.15	BAS16B5003INTR-ND◆	3,000	27.54/M	BAS 16 B5003
	SOT-323	250	4.5	80	1.25	4	250	BAS16WE6327INCT-ND◆	2.39	10.40	33.80	BAS16WE6327INTR-ND◆	3,000	28.08/M	BAS 16W E6327
2	SOT-23	120	0.2	40	1	0.1	250	BAS4005INCT-ND	4.04	18.83	72.63	BAS4005INTR-ND	3,000	63.22/M	BAS4005E6327
		70	0.1	70	1	0.1	250	BAS7005INCT-ND◆	4.04	18.83	72.63	BAS7005INTR-ND◆	3,000	65.10/M	BAS7005E6327
		200	4.5	85	1.2	3	250	BAV170INCT-ND◆	2.97	12.90	41.93	BAV170INTR-ND◆	3,000	34.83/M	BAV170E6327
		200	4.5	85	1.2	6	250	BAV70INCT-ND◆	2.21	9.60	31.00	BAV70INTR-ND◆	3,000	26.00/M	BAV70E6327
		200	4.5	80	1.25	4	250	BAV70B5003INCT-ND◆	2.30	10.00	33.00	BAV70B5003INTR-ND◆	3,000	27.00/M	BAV 70 B5003
3	SOT-23	200	4.5	100	0.7	15	330	MMBD7000LT1INCT-ND◆	2.42	10.50	34.13	MMBD7000LT1INTR-ND◆	3,000	28.35/M	MMBD7000LT1
		200	—	150	0.95	700	250	BAR66E6327INCT-ND◆	7.30	62.55	417.00	BAR66E6327INTR-ND◆	3,000	291.90/M	BAR 66 E6327
		120	0.2	40	1	0.1	250	BAS4004INCT-ND◆	4.04	18.83	72.63	BAS4004INTR-ND◆	3,000	63.22/M	BAS4004E6327
		70	0.1	70	1	0.1	250	BAS7004INCT-ND	4.04	18.83	72.63	BAS7004INTR-ND	3,000	63.22/M	BAS7004E6327
		200	4.5	100	1.1	15	330	SMBD7000INCT-ND	2.58	11.20	36.40	SMBD7000INTR-ND	3,000	30.24/M	SMBD7000E6327
		200	4.5	85	1.2	3	330	BAV199INCT-ND◆	2.97	12.90	41.93	BAV199INTR-ND◆	3,000	34.83/M	BAV199E6327
		200	4.5	70	1.2	6	330	BAV99INCT-ND◆	2.21	9.60	31.00	BAV99INTR-ND◆	3,000	26.00/M	BAV99E6327
		200	4.5	80	1.25	4	330	BAV99B5003INCT-ND◆	2.30	10.00	33.00	BAV99B5003INTR-ND◆	3,000	27.00/M	BAV 99 B5003
	SOT-323	250	0.8	40	0.75	—	250	BAT6404WINCT-ND◆	3.65	17.01	65.61	BAT6404WINTR-ND◆	3,000	57.11/M	BAT6404WE6327
		200	4.5	80	1.3	4	250	BAV99WE6327INCT-ND◆	2.32	10.10	32.83	BAV99WE6327INTR-ND◆	3,000	27.27/M	BAV 99W E6327
4	SOT-23	120	0.2	40	1	0.1	250	BAS4006INCT-ND	4.04	18.83	72.63	BAS4006INTR-ND	3,000	63.22/M	BAS4006E6327
		200	4.5	70	1.2	6	330	BAW56INCT-ND◆	2.21	9.60	31.00	BAW56INTR-ND◆	3,000	26.00/M	BAW56E6327
		200	4.5	80	1.25	4	330	BAW56B5003INCT-ND◆	2.30	10.00	33.00	BAW56B5003INTR-ND◆	3,000	27.00/M	BAW 56 B5003
5	SOT-89	1000	10	400	2	1000	1000	BAW78DINCT-ND◆	3.90	26.50	—	BAW78DINTR-ND◆	1,000	132.48	BAW78DE6327
6	SOT-143	140	—	50	1.3	6	210	BGX50AINCT-ND◆	3.48	20.51	96.75	BGX50AINTR-ND◆	3,000	77.40/M	BGX50AE6327
9	SOT-143	250	4.5	300	1.3	1000	350	BAW101E6327INCT-ND◆	3.23	21.21	115.68	BAW101E6327INTR-ND◆	3,000	86.76/M	BAW 101 E6327
10	SOT-363	200	4.5	80	1.25	4	250	BAV99SE6327INCT-ND◆	2.98	17.54	82.75	BAV99SE6327INTR-ND◆	3,000	66.20/M	BAV 99S E6327
11	SC-74	250	4	200	1.25	50	250	BAS21UE6327INCT-ND◆	3.11	18.34	86.50	BAS21UE6327INTR-ND◆	3,000	69.20/M	BAS 21U E6327
12	SOD-323	250	4	200	1.25	50	250	BAS21-03WE6327INCT-ND◆	2.85	12.40	40.30	BAS21-03WE6327INTR-ND◆	3,000	33.48/M	BAS 21-03W E6327

◆ ***RoHS Compliant***

Silicon Digital Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 1,000	Digi-Key Part No.	T & R Pricing 3,000	Infineon Part No.
SOT-23	NPN	50	50	100	30	BCR133INCT-ND	2.92	12.70	41.28	BCR133INTR-ND	34.29/M	BCR133E6327
		50	50	100	70	BCR108E6327INCT-ND◆	2.92	12.70	41.28	BCR108E6327INTR-ND◆	34.29/M	BCR 108 E6327
		50	50	500	40	BCR503E6327INCT-ND◆	3.66	17.08	65.88	BCR503E6327INTR-ND◆	57.34/M	BCR 503 E6327
SOT-363	NPN/PNP	50	50	100	70	BCR08PNE6327INCT-ND◆	4.10	19.11	73.71	BCR08PNE6327INTR-ND◆	64.16/M	BCR 08PN E6327

◆ ***RoHS Compliant***

Silicon Carbide Schottky Diodes

Fig.	Package	V_{RRM} (V)	Q_c (nC)	If (A)	P_{tot} (W)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 1,000	Infineon Part No.
7	TO-220-2-2	300	23	10	65	SDT10S30IN-ND◆	99.81	758.54	5309.76	SDT10S30
		600	13	4	36.5	SDT04S60IN-ND◆	59.24	452.36	2908.04	SDT04S60
		600	21	6	57.6	SDT06S60IN-ND◆	81.04	615.87	4311.06	SDT06S60
		600	30	12	88.2	SDT12S60IN-ND	153.18	1140.70	8473.79	SDT12S60
8	TO-220-3-1	300	23	2 x 10	65	SDP20S30IN-ND◆	168.64	1255.85	9329.19	SDP20S30

◆ ***RoHS Compliant***

Silicon Schottky Diodes

Fig.	Package	Forward Current If (mA)	Surge Current Ifsm (mA)	Reverse Voltage (Vr)	Max. For. Voltage (Vf)	P_{tot} (mW)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Pricing 3,000	Infineon Part No.
1	SOT-23	250	800	40	0.75	250	BAT64B5003INCT-ND	3.51	16.38	63.18	BAT64B5003INTR-ND	54.99/M	BAT 64 B5003
		200	600	30	0.8	230	BAT54B5003INCT-ND	3.14	14.63	56.43	BAT54B5003INTR-ND	49.12/M	BAT 54 B5003
		200	600	30	0.8	230	BAT54E6327INCT-ND	3.14	14.63	56.43	BAT54E6327INTR-ND	49.12/M	BAT 54 E6327
		120	200	40	1	250	BAS40B5003INCT-ND	3.75	17.50	67.50	BAS40B5003INTR-ND	58.75/M	BAS 40 B5003
		70	100	70	1	250	BAS70B5003INCT-ND	3.75	17.50	67.50	BAS70B5003INTR-ND	58.75/M	BAS 70 B5003
2	SOT-23	250	800	40	0.75	250	BAT64-05B5003INCT-ND	3.65	17.01	65.61	BAT64-05B5003INTR-ND	57.11/M	BAT 64-05 B5003
		250	800	40	0.75	250	BAT64-05E6327INCT-ND	3.65	17.01	65.61	BAT64-05E6327INTR-ND	57.11/M	BAT 64-05 E6327
		200	600	30	0.8	230	BAT54-05B5003INCT-ND	2.61	12.18	46.98	BAT54-05B5003INTR-ND	40.89/M	BAT 54-05 B5003
		200	600	30	0.8	230	BAT54-05E6327INCT-ND	2.61	12.18	46.98	BAT54-05E6327INTR-ND	40.89/M	BAT 54-05 E6327
		120	200	40	1	250	BAS40-05B5003INCT-ND	4.04	18.83	72.63	BAS40-05B5003INTR-ND	63.22/M	BAS 40-05 B5003
		70	100	70	1	250	BAS70-05B5003INCT-ND	4.04	18.83	72.63	BAS70-05B5003INTR-ND	63.22/M	BAS 70-05 B5003
3	SOT-23	250	800	40	0.75	250	BAT64-04B5003INCT-ND	3.65	17.01	65.61	BAT64-04B5003INTR-ND	57.11/M	BAT 64-04 B5003
		200	600	30	0.8	230	BAT54-04B5003INCT-ND	3.27	15.26	58.86	BAT54-04B5003INTR-ND	51.23/M	BAT 54-04 B5003
		200	600	30	0.8	230	BAT54-04E6327INCT-ND	2.61	12.18	46.98	BAT54-04E6327INTR-ND	40.89/M	BAT 54-04 E6327
		120	200	40	1	250	BAS40-04B5003INCT-ND	4.04	18.83	72.63	BAS40-04B5003INTR-ND	63.22/M	BAS 40-04 B5003
		70	100	70	1	250	BAS70-04B5003INCT-ND	4.04	18.83	72.63	BAS70-04B5003INTR-ND	63.22/M	BAS 70-04 B5003

(Continued)

Diodes and Transistors

Silicon Schottky Diodes *(Cont.)*

Fig.	Package	Forward Current If (mA)	Surge Current Ifsm (mA)	Reverse Voltage (Vr)	Max. For. Voltage (Vf)	Ptot (mW)	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape and Reel Pricing 3,000	Infineon Part No.
3	SOT-323	250	800	40	0.75	250	BAT64-04WE6327INCT-ND	3.65	17.01	65.61	BAT64-04WE6327INTR-ND	57.11/M	BAT 64-04W E6327
		70	100	70	1	250	BAS70-04WE6327INCT-ND	4.04	18.83	72.63	BAS70-04WE6327INTR-ND	63.22/M	BAS 70-04W E6327
4	SOT-23	250	800	40	0.75	250	BAT64-06B5003INCT-ND	3.65	17.01	65.61	BAT64-06B5003INTR-ND	57.11/M	BAT 64-06 B5003
		200	600	30	0.8	230	BAT54-06B5003INCT-ND	2.61	12.18	46.98	BAT54-06B5003INTR-ND	40.89/M	BAT 54-06 B5003
		200	600	30	0.8	230	BAT54-06E6327INCT-ND	2.61	12.18	46.98	BAT54-06E6327INTR-ND	40.89/M	BAT 54-06 E6327
		120	200	40	1	250	BAS40-06B5003INCT-ND	4.04	18.83	72.63	BAS40-06B5003INTR-ND	63.22/M	BAS 40-06 B5003
		70	100	70	1	250	BAS70-06B5003INCT-ND	4.04	18.83	72.63	BAS70-06B5003INTR-ND	63.22/M	BAS 70-06 B5003
		70	100	70	1	250	BAS70-06E6327INCT-ND	4.04	18.83	72.63	BAS70-06E6327INTR-ND	63.22/M	BAS 70-06 E6327
12	SOD-323	3	5	10	1	1350	BAT60AE6327INCT-ND	3.65	21.52	101.50	BAT60AE6327INTR-ND	81.20/M	BAT 60A E6327
	SC-79	500	5	30	0.62	300	BAS3005B-02VE6327INCT-ND	3.53	20.78	98.00	BAS3005B-02VE6327INTR-ND	78.40/M	BAS 3005B-02V E6327
	SCD-80	20	20	40	1	100	BAT62-02WE6327INCT-ND	4.24	34.16	217.35	BAT62-02WE6327INTR-ND	155.25/M	BAT 62-02W E6327

TVS Diodes

Fig.	Package	ESD Contact Discharge Vesd (kV)	Peak Pulse Current Ipp (A)	Breakdown Voltage Vbr	Clamping Voltage Vcl	Line Cap. Ct (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Infineon Part No.
10	SOT363-6	15	10	—	12	1.5	ESD1P0RFSE6327INCT-ND ***NEW!***	.47	3.29	21.60	ESD1P0RFSE6327INTR-ND ***NEW!***	3,000	88.38/M	ESD1P0RFSE6327
13	TSLP-2-7	16	1	20	28	7	ESD8V0R1B-02LRHE6327INCT-ND ***NEW!***	.41	2.93	17.23	ESD8V0R1B-02LRHE6327INTR-ND ***NEW!***	15,000	52.00/M	ESD8V0R1B-02LRHE6327
13	TSLP-2-7	26	2.5	14.5	25	13	ESD8V0L1B-02LRHE6327INCT-ND	.41	2.96	17.44	ESD8V0L1B-02LRHE6327INTR-ND	15,000	52.64/M	ESD8V0L1B-02LRH E6327
13	TSSLP-2-1	16	1	20	28	7	ESD8V0R1B-02LSE6327INCT-ND ***NEW!***	.48	3.42	20.14	ESD8V0R1B-02LSE6327INTR-ND ***NEW!***	15,000	60.80/M	ESD8V0R1B-02LSE6327
14	TSLP-3-1	15	1	8.5	20	7	ESD8V0L2B-03LE6327INCT-ND	.43	3.05	20.02	ESD8V0L2B-03LE6327INTR-ND	15,000	70.53/M	ESD8V0L2B-03L E6327
15	SOT-323	15	10	—	12	1.5	ESD1P0RFWE6327INCT-ND ***NEW!***	.40	2.90	17.07	ESD1P0RFWE6327INTR-ND ***NEW!***	3,000	64.40/M	ESD1P0RFWE6327
16	SOT-23	30	5	32	41	28	ESD24VS2BE6327INCT-ND ***NEW!***	.47	3.53	23.98	ESD24VS2BE6327INTR-ND ***NEW!***	3,000	106.56/M	ESD24VS2BE6327
17	SOT-23	30	5	32	41	52	ESD24VS2UE6327INCT-ND ***NEW!***	.56	4.00	23.53	ESD24VS2UE6327INTR-ND ***NEW!***	3,000	88.80/M	ESD24VS2UE6327
18	SOT-363	30	10	7.7	13	55	ESD5V0S4USE6327INCT-ND ***NEW!***	.44	3.30	22.39	ESD5V0S4USE6327INTR-ND ***NEW!***	3,000	99.52/M	ESD5V0S4USE6327
19	TSLP-4-7	20	10	—	12	0.8	ESD0P8RFLE6327INCT-ND ***NEW!***	.51	3.61	23.72	ESD0P8RFLE6327INTR-ND ***NEW!***	15,000	83.55/M	ESD0P8RFLE6327

Silicon AF Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Infineon Part No.
SOT-23	NPN	45	50	500	160	BC817-16B5003INCT-ND◆	2.42	10.50	34.13	BC817-16B5003INTR-ND◆	3,000	28.35/M	BC 817-16 B5003
		45	50	500	160	BC817-16E6327INCT-ND◆	2.74	11.90	38.68	BC817-16E6327INTR-ND◆	3,000	32.13/M	BC 817-16 E6327
		45	50	500	250	BC817-25B5003INCT-ND◆	2.42	10.50	34.13	BC817-25B5003INTR-ND◆	3,000	28.35/M	BC 817-25 B5003
		45	50	500	250	BC817-25E6327INCT-ND◆	2.74	11.90	38.68	BC817-25E6327INTR-ND◆	3,000	32.13/M	BC 817-25 E6327
		45	50	500	350	BC817-40B5003INCT-ND◆	2.42	10.50	34.13	BC817-40B5003INTR-ND◆	3,000	28.35/M	BC 817-40 B5003
		45	50	500	350	BC817-40E6327INCT-ND◆	2.74	11.90	38.68	BC817-40E6327INTR-ND◆	3,000	32.13/M	BC 817-40 E6327
		65	80	100	250	BC846BB5003INCT-ND◆	2.19	9.50	31.00	BC846BB5003INTR-ND◆	3,000	26.00/M	BC 846B B5003
		65	80	100	250	BC846BE6327INCT-ND◆	2.19	9.50	31.00	BC846BE6327INTR-ND◆	3,000	26.00/M	BC 846B E6327
		45	50	100	140	BC847AINCT-ND◆	2.19	9.50	31.00	BC847AINTR-ND◆	3,000	26.00/M	BC847AE6327
		45	50	100	250	BC847BB5003INCT-ND◆	2.19	9.50	31.00	BC847BB5003INTR-ND◆	3,000	26.00/M	BC 847B B5003
		45	50	100	250	BC847BE6327INCT-ND◆	2.19	9.50	31.00	BC847BE6327INTR-ND◆	3,000	26.00/M	BC 847B E6327
		45	50	100	480	BC847CB5003INCT-ND◆	2.19	9.50	31.00	BC847CB5003INTR-ND◆	3,000	26.00/M	BC 847C B5003
		45	50	100	480	BC847CINCT-ND◆	2.19	9.50	31.00	BC847CINTR-ND◆	3,000	26.00/M	BC847CE6327
		45	50	100	250	BC850BB5003INCT-ND◆	2.19	9.50	31.00	BC850BB5003INTR-ND◆	3,000	26.00/M	BC 850B B5003
		45	50	100	480	BC850CB5003INCT-ND◆	2.19	9.50	31.00	BC850CB5003INTR-ND◆	3,000	26.00/M	BC 850C B5003
		45	50	100	480	BC850CE6327INCT-ND◆	2.44	10.60	34.45	BC850CE6327INTR-ND◆	3,000	28.62/M	BC 850C E6327
		60	45	500	2000	BCV47INCT-ND*◆	3.83	17.85	68.85	BCV47INTR-ND*◆	3,000	59.93/M	BCV47E6327
		45	45	100	460	BCX70KINCT-ND◆	2.67	11.60	37.70	BCX70KINTR-ND◆	3,000	31.32/M	BCX70KE6327
		80	80	500	100	MMBTA06LT1INCT-ND	3.29	14.30	46.48	MMBTA06LT1INTR-ND	3,000	38.61/M	MMBTA06LT1
		80	80	500	100	SMBTA06E6327INCT-ND◆	3.17	13.80	44.85	SMBTA06E6327INTR-ND◆	3,000	37.26/M	SMBTA 06 E6327
		80	80	500	100	SMBTA06INCT-ND	3.17	13.80	44.85	SMBTA06INTR-ND	10,000	27.60/M	SMBTA06E6433
		40	60	200	300	SMBT3904B5003INCT-ND◆	1.98	8.60	28.00	SMBT3904B5003INTR-ND◆	3,000	23.00/M	SMBT 3904 B5003
SOT-23	PNP	45	50	500	250	BC807-25B5003INCT-ND◆	2.35	10.20	33.15	BC807-25B5003INTR-ND◆	3,000	27.54/M	BC 807-25 B5003
		45	50	500	250	BC807-25E6327INCT-ND◆	2.74	11.90	38.68	BC807-25E6327INTR-ND◆	3,000	32.13/M	BC 807-25 E6327
		45	50	500	350	BC807-40B5003INCT-ND◆	2.35	10.20	33.15	BC807-40B5003INTR-ND◆	3,000	27.54/M	BC 807-40 B5003
		45	50	500	350	BC807-40E6327INCT-ND◆	2.74	11.90	38.68	BC807-40E6327INTR-ND◆	3,000	32.13/M	BC 807-40 E6327
		65	80	100	250	BC856BE6327INCT-ND◆	2.19	9.50	31.00	BC856BE6327INTR-ND◆	3,000	26.00/M	BC 856B E6327
		45	50	100	250	BC857BB5003INCT-ND◆	2.19	9.50	31.00	BC857BB5003INTR-ND◆	3,000	26.00/M	BC 857B B5003
		45	50	100	250	BC857BE6327INCT-ND◆	2.19	9.50	31.00	BC857BE6327INTR-ND◆	3,000	26.00/M	BC 857B E6327
		45	50	100	480	BC857CB5003INCT-ND◆	2.19	9.50	31.00	BC857CB5003INTR-ND◆	3,000	26.00/M	BC 857C B5003
		45	50	100	480	BC857CINCT-ND◆	2.19	9.50	31.00	BC857CINTR-ND◆	3,000	26.00/M	BC857CE6327
		45	50	100	480	BC860CB5003INCT-ND◆	2.19	9.50	31.00	BC860CB5003INTR-ND◆	3,000	26.00/M	BC 860C B5003
		60	80	500	2000	BCV46INCT-ND*◆	3.83	17.85	68.85	BCV46INTR-ND*◆	3,000	59.93/M	BCV46E6327
		45	60	800	350	BCW68HE6327INCT-ND◆	2.25	10.50	40.50	BCW68HE6327INTR-ND◆	3,000	35.25/M	BCW 68H E6327
		45	45	100	460	BCX71KE6327INCT-ND◆	2.83	12.30	39.98	BCX71KE6327INTR-ND◆	3,000	33.21/M	BCX 71K E6327
		80	80	500	100	MMBTA56LT1INCT-ND◆	2.81	12.20	39.65	MMBTA56LT1INTR-ND◆	3,000	32.94/M	MMBTA 56 LT1
		300	300	500	40	MMBTA92LT1INCT-ND	2.96	13.79	53.19	MMBTA92LT1INTR-ND	3,000	46.30/M	MMBTA92LT1
		80	80	500	100	SMBTA56INCT-ND	2.69	11.70	38.03	SMBTA56INTR-ND	10,000	23.40/M	SMBTA56E6433
		30	30	500	20000	SMBTA64INCT-ND*	3.95	18.41	71.01	SMBTA64INTR-ND*	3,000	61.81/M	SMBTA64E6327
		300	300	500	40	SMBTA92INCT-ND	2.99	13.93	53.73	SMBTA92INTR-ND	3,000	46.77/M	SMBTA92E6327
		40	40	200	300	SMBT3906B5003INCT-ND◆	1.98	8.60	28.00	SMBT3906B5003INTR-ND◆	3,000	23.00/M	SMBT 3906 B5003
SOT-89	NPN	45	100	1000	25	BCX5410INCT-ND◆	3.75	24.64	—	—	—	—	BCX5410E6327
		45	45	1000	160	BCX54-16E6327INCT-ND◆	3.92	25.74	—	BCX54-16E6327INTR-ND◆	1,000	117.00	BCX 54-16 E6327
	PNP	80	100	1000	25	BCX5310INCT-ND◆	3.92	25.74	—	BCX5310INTR-ND◆	1,000	117.00	BCX5310E6327
		20	25	1000	160	BCX6916INCT-ND	3.87	26.32	—	BCX6916INTR-ND	1,000	131.58	BCX6916E6327
SOT-363	NPN/PNP	45	50	100	250	BC847PNE6327INCT-ND◆	3.77	17.57	67.77	BC847PNE6327INTR-ND◆	3,000	58.99/M	BC 847PN E6327
	NPN	45	50	100	250	BC847SE6327INCT-ND◆	3.59	16.73	64.53	BC847SE6327INTR-ND◆	3,000	56.17/M	BC 847S E6327

◆ ***RoHS Compliant*** * Darlington

Silicon Switching Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	T & R Pricing 3,000	Infineon Part No.
SOT-23	NPN	30	30	300	10000	MMBTA14LT1INCT-ND*◆	3.99	18.62	71.82	MMBTA14LT1INTR-ND*◆	62.51/M	MMBTA 14 LT1
		300	300	500	40	MMBTA42LT1INCT-ND◆	2.99	13.93	53.73	MMBTA42LT1INTR-ND◆	46.77/M	MMBTA 42 LT1
		40	75	600	100	MMBT2222ALT1INCT-ND◆	2.69	11.70	38.03	MMBT2222ALT1INTR-ND◆	31.59/M	MMBT2222ALT1
		40	60	200	100	MMBT3904LT1INCT-ND	1.93	8.40	27.00	MMBT3904LT1INTR-ND	23.00/M	MMBT3904LT1
		40	75	600	100	SMBT2222AINCT-ND◆	2.69	11.70	38.03	SMBT2222AINTR-ND◆	31.59/M	SMBT2222AE6327
		30	30	300	20000	SMBTA14INCT-ND*	4.08	19.04	73.44	SMBTA14INTR-ND*	63.92/M	SMBTA14E6327
		300	300	500	40	SMBTA42E6327INCT-ND◆	2.99	13.93	53.73	SMBTA42E6327INTR-ND◆	46.77/M	SMBTA 42 E6327
		40	60	200	100	SMBT3904INCT-ND◆	2.21	9.60	31.00	SMBT3904XTINTR-ND◆	26.00/M	SMBT3904E6327
	PNP	60	60	600	100	MMBT2907ALT1INCT-ND◆	2.69	11.70	38.03	MMBT2907ALT1INTR-ND◆	31.59/M	MMBT2907ALT1
		40	40	200	100	MMBT3906LT1INCT-ND◆	1.93	8.40	27.00	MMBT3906LT1INTR-ND◆	23.00/M	MMBT3906LT1
		60	60	600	100	SMBT2907AINCT-ND◆	2.69	11.70	38.03	SMBT2907AINTR-ND◆	31.59/M	SMBT2907AE6327
		40	40	200	100	SMBT3906INCT-ND◆	2.21	9.60	31.00	SMBT3906INTR-ND◆	26.00/M	SMBT3906E6327
SOT-143	PNP	30	30	100	180	BCV62AE6327INCT-ND◆	3.41	20.09	94.75	BCV62AE6327INTR-ND◆	75.80/M	BCV 62A E6327
		30	30	100	290	BCV62BE6327INCT-ND◆	3.41	20.09	94.75	BCV62BE6327INTR-ND◆	75.80/M	BCV 62B E6327
		30	30	100	520	BCV62CE6327INCT-ND◆	3.41	20.09	94.75	BCV62CE6327INTR-ND◆	75.80/M	BCV 62C E6327

◆ ***RoHS Compliant*** * Darlington

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

IXYS

Semiconductors

Dimensions in mm

Fig. 1

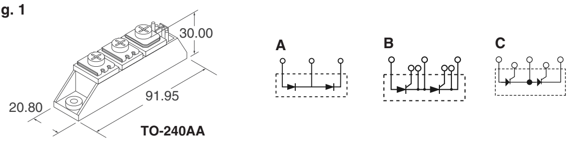

TO-240AA

Fig. 2

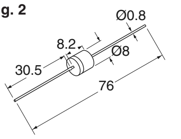

Fig. 3

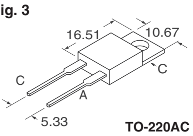

TO-220AC

Fig. 4

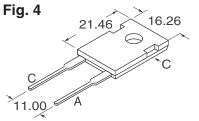

TO-247AD

Fig. 5

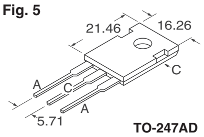

TO-247AD

Fig. 6

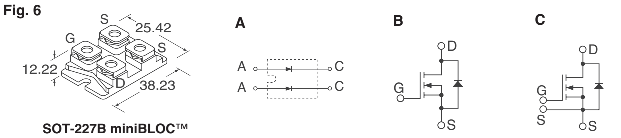

SOT-227B miniBLOC™

Fig. 7

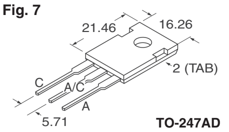

TO-247AD

Fig. 8

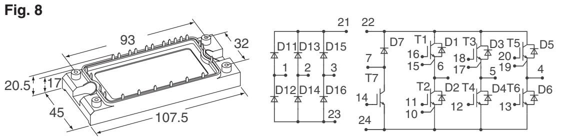

Fig. 9

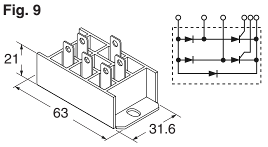

Fig. 10

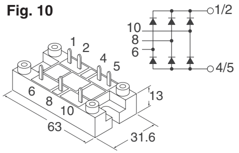

Fig. 11

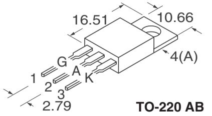

TO-220 AB

Description	Package	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Integrated Circuits — RoHS Compliant						
2 Amp Dual Low-Side Ultrafast MOSFET 1 Driver Inverting and 1 Non-Inverting	8-Dip	IXDF502PI-ND	1.72	1.07	.87	IXDF502PI
2 Amp Dual Low-Side Ultrafast MOSFET 1 Driver Inverting and 1 Non-Inverting	8-SOIC	IXDF502SIACT-ND†	1.88	1.17	.95	IXDF502SIAT/R
2 Amp Dual Low-Side Ultrafast MOSFET 1 Driver Inverting and 1 Non-Inverting	8-SOIC	IXDF502SIATR-ND‡	1617.50/2,500			IXDF502SIAT/R
2 Amp Dual Low-Side Ultrafast MOSFET 1 Driver Inverting and 1 Non-Inverting	6-DFN	IXDF502D1CT-ND†	2.17	1.34	1.09	IXDF502D1T/R
2 Amp Dual Low-Side Ultrafast MOSFET 1 Driver Inverting and 1 Non-Inverting	6-DFN	IXDF502D1TR-ND‡	1865.00/2,500			IXDF502D1T/R
2 Amp Dual Low-Side Ultrafast MOSFET with both Drivers Inverting	8-Dip	IXDI502PI-ND	1.72	1.07	.87	IXDI502PI
2 Amp Dual Low-Side Ultrafast MOSFET with both Drivers Inverting	8-SOIC	IXDI502SIACT-ND†	1.88	1.17	.95	IXDI502SIAT/R
2 Amp Dual Low-Side Ultrafast MOSFET with both Drivers Inverting	8-SOIC	IXDI502SIATR-ND‡	1617.50/2,500			IXDI502SIAT/R
2 Amp Dual Low-Side Ultrafast MOSFET with both Drivers Inverting	6-DFN	IXDI502D1CT-ND†	2.04	1.27	1.03	IXDI502D1T/R
2 Amp Dual Low-Side Ultrafast MOSFET with both Drivers Inverting	6-DFN	IXDI502D1TR-ND‡	1760.00/2,500			IXDI502D1T/R
2 Amp Dual Low-Side Ultrafast MOSFET w/both Drivers Non-Inverting	8-Dip	IXDN502PI-ND	1.72	1.07	.87	IXDN502PI
2 Amp Dual Low-Side Ultrafast MOSFET w/both Drivers Non-Inverting	8-SOIC	IXDN502SIACT-ND†	1.88	1.17	.95	IXDN502SIAT/R
2 Amp Dual Low-Side Ultrafast MOSFET w/both Drivers Non-Inverting	8-SOIC	IXDN502SIATR-ND‡	1617.50/2,500			IXDN502SIAT/R
2 Amp Dual Low-Side Ultrafast MOSFET w/both Drivers Non-Inverting	6-DFN	IXDN502D1CT-ND†	2.04	1.27	1.03	IXDN502DIT/R
2 Amp Dual Low-Side Ultrafast MOSFET w/both Drivers Non-Inverting	6-DFN	IXDN502D1TR-ND‡	1760.00/2,500			IXDN502DIT/R
4 Amp Dual Low-Side Ultrafast MOSFET Driver, with Enable	8-Dip	IXDD404PI-ND	2.06	1.87	1.63	IXDD404PI
Integrated Circuits						
4 Amp Dual Low-Side Ultrafast MOSFET Driver, with Enable	8-SOIC	IXDD404SI-ND	2.23	2.02	1.78	IXDD404SI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-Dip	IXDI404PI-ND	2.06	1.87	1.63	IXDI404PI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-SOIC	IXDI404SI-ND	2.23	2.02	1.76	IXDI404SI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	16-SOIC	IXDI404SI-16-ND	2.46	2.23	1.95	IXDI404SI-16
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-Dip	IXDN404PI-ND	2.06	1.87	1.63	IXDN404PI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-SOIC	IXDN404SI-ND	2.23	2.02	1.76	IXDN404SI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	16-SOIC	IXDN404SI-16-ND	2.46	2.23	1.95	IXDN404SI-16
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-Dip	IXDF404PI-ND	2.06	1.87	1.63	IXDF404PI
8 Amp Low-Side Ultrafast MOSFET Driver, with Enable	TO-220-5	IXDD408CI-ND	2.50	2.27	1.98	IXDD408CI
8 Amp Low-Side Ultrafast MOSFET Driver, with Enable	8-Dip	IXDD408PI-ND	2.18	1.98	1.72	IXDD408PI
8 Amp Low-Side Ultrafast MOSFET Driver, with Enable	8-SOIC	IXDD408SI-ND	2.31	2.09	1.82	IXDD408SI
8 Amp Low-Side Ultrafast MOSFET Driver, with Enable	TO-263-5	IXDD408YI-ND	2.67	2.42	2.11	IXDD408YI
14 Amp Low-Side Ultrafast MOSFET Driver, with Enable	TO-220-5	IXDD414CI-ND	3.07	2.78	2.43	IXDD414CI
14 Amp Low-Side Ultrafast MOSFET Driver, with Enable	8-Dip	IXDD414PI-ND	2.46	2.23	1.95	IXDD414PI
14 Amp Low-Side Ultrafast MOSFET Driver, with Enable	TO-263-5	IXDD414YI-ND	3.84	3.48	3.10	IXDD414YI
Full-Feature Low-Side Driver	16-Dip	IXBD4410PI-ND	3.99	3.33	2.65	IXBD4410PI
ISOSMART™ Half Bridge Driver Chipset	16-Dip	IXBD4411PI-ND	4.05	3.38	2.69	IXBD4411PI
Inverter Interface and Digital Deadtime Generator for 3-Phase PWM Controls	18-Dip	IXDP630PI-ND	4.77	3.98	3.18	IXDP630PI

Fig.	V_{RRM} V	I_{FAV} @ T_C A	°C	I_{FRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Diode Module — RoHS Compliant									
1A	1200	2x120	105	2x180	MDD95-12N1B-ND	59.67	49.73	29.83	MDD95-12N1B
Avalanche Diode — RoHS Compliant									
2	1600	3.6	45	7	DSA2-16A-ND	5.25	4.38	2.63	DSA2-16A

Fig.	V_{RRM} V	I_{FAV} @ T_C A	°C	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Fast Recovery Epitaxial Diodes (FRED)								
3	600	8	115	DSEI8-06A-ND◆	1.32	1.10	.66	DSEI8-06A
	600	14	100	DSEI12-06A-ND◆	1.92	1.60	.96	DSEI12-06A
	1000	12	100	DSEI12-10A-ND◆	1.98	1.65	.99	DSEI12-10A
	1200	11	100	DSEI12-12A-ND◆	2.01	1.68	1.01	DSEI12-12A
	1200	17	85	DSEI20-12A-ND◆	3.24	2.70	1.63	DSEI20-12A
4	600	37	85	DSEI30-06A-ND◆	4.26	3.55	2.13	DSEI30-06A
	1000	30	85	DSEI30-10A-ND◆	4.38	3.65	2.19	DSEI30-10A
	1200	26	85	DSEI30-12A-ND◆	4.47	3.73	2.23	DSEI30-12A
	600	60	70	DSEI60-06A-ND◆	6.78	5.65	3.39	DSEI60-06A
	1000	60	60	DSEI60-10A-ND◆	6.99	5.83	3.49	DSEI60-10A
	1200	52	60	DSEI60-12A-ND◆	7.11	5.93	3.55	DSEI60-12A
5	600	2x30	85	DSEK60-06A-ND◆	6.87	5.73	3.43	DSEK60-06A
6A	200	2x123	70	DSEI2X121-02A-ND◆	39.60	33.00	19.79	DSEI2X121-02A
	600	2x60	70	DSEI2X61-06C-ND◆	34.53	28.78	17.26	DSEI2X61-06C
	1000	2x60	50	DSEI2X61-10B-ND	35.52	29.60	17.76	DSEI2X61-10B
	600	2x106	70	DSEI2X101-06A-ND◆	41.58	34.65	20.78	DSEI2X101-06A
	1000	2x30	50	DSEI2X31-10B-ND◆	30.30	25.25	15.16	DSEI2X31-10B
HIPerFRED™ Epitaxial Diode with Soft Recovery — RoHS Compliant								
4	600	30	135	DSEP30-06A-ND	4.95	4.13	2.47	DSEP30-06A
	1200	30	115	DSEP30-12A-ND	5.40	4.50	2.70	DSEP30-12A
6A	600	2x60	65	DSEP2X61-06A-ND	42.00	35.00	21.00	DSEP2X61-06A

Fig.	V_{RRM} V	I_{FAV} @ T_C A	°C	I_{FRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Phase-Leg Rectifier Diode — RoHS Compliant									
7	1200	2x28	100	2x43	DSP25-12A-ND	5.10	4.25	2.55	DSP25-12A
	1600	2x28	100	2x43	DSP25-16A-ND	5.58	4.65	3.72	DSP25-16A

Three Phase Rectifier	Brake Chopper	Three Phase Inverter	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Converter-Brake-Inverter Modules - Fig. 8							
VRRM = 1600V IDAVM = 26A IFSM = 160A	VCES = 600V IC25 = 20A VCE(sat) = 1.9V	VCES = 600V IC25 = 20A VCE(sat) = 1.9V	MUBW10-06A7-ND	88.50	73.75	44.26	MUBW10-06A7

Fig.	V_{RRM} V	I_{FAV} @ T_C A	°C	V_F V	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Power Schottky Rectifier									
3	45	16	160	0.57	DSS16-0045A-ND◆	1.53	1.28	.76	DSS16-0045A
5	15	2x20	135	0.32	DSSK40-0015B-ND◆	4.14	3.45	2.07	DSSK40-0015B
	45	2x30	150	0.60	DSSK60-0045A-ND	5.91	4.93	2.96	DSSK60-0045A
	150	2x30	155	0.69	DSSK60-015A-ND◆	7.65	6.38	3.82	DSSK60-015A
	15	2x35	130	0.33	DSSK70-0015B-ND	5.91	4.93	2.96	DSSK70-0015B
	45	2x40	125	0.45	DSSK80-0045B-ND◆	6.93	5.78	3.47	DSSK80-0045B
6A	100	2x40	110	0.70	DSS2X41-01A-ND◆	32.25	26.88	16.12	DSS2X41-01A
	100	2x60	105	0.73	DSS2X61-01A-ND◆	33.87	28.23	16.94	DSS2X61-01A
	45	2x60	105	0.66	DSS2X61-0045A-ND◆	32.28	26.90	16.14	DSS2X61-0045A
	45	2x120	100	0.59	DSS2X121-0045B-ND	38.55	32.13	19.27	DSS2X121-0045B
	100	2x160	150	0.80	DSS2X160-01A-ND◆	38.94	32.45	19.48	DSS2X160-01A

Fig.	V_{RRM} V	I_{dAVM} @ T_K A	°C	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Half Controlled Single Phase Rectifier Bridge with Freewheeling Diode — RoHS Compliant								
9	1600	32	85	VHF28-16IO5-ND	44.28	36.90	22.14	VHF28-16IO5
Half Controlled Three Phase Rectifier Bridge with Freewheeling Diode								
10	1600	54	90	VUO52-16NO1-ND	54.15	45.13	27.08	VUO52-16NO1

Fig.	VAK V	ID TC = 25°C A	IAP typ. mA	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Adjustable Current Regulators — RoHS Compliant								
11	450	-0.3	10	IXCP10M45S-ND	1.76	1.60	1.39	IXCP10M45S

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

IXYS Semiconductors *(Cont.)*

Fig. 12

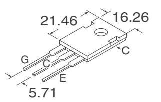

TO-247AD

Fig. 13

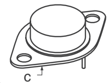

G = Gate
E = Emitter
C = Collector
TAB = Collector **TO-204 AE**

Fig. 14

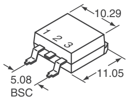

TO-263

Fig. 15

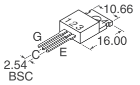

TO-220AB

Fig. 16

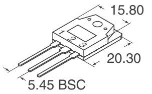

TO-3P

Fig. 17

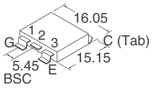

TO-268

Fig. 18

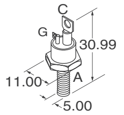

TO-64

Fig. 19

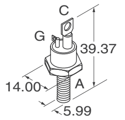

TO-48

Fig. 20

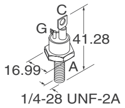

TO-65

Fig. 21

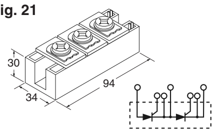

MCC162

Fig. 22

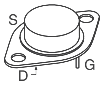

TO-204 AE

Fig. 23

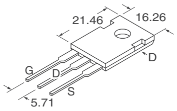

TO-247AD

Fig. 24

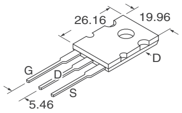

TO-264 / TO-264AA

Fig. 25

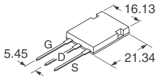

PLUS247™

Fig.	V_{CES} V	I_C T_C = 25°C A	V_{CE} (sat) max. V	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
IGBTs — Insulated Gate Bipolar Transistors — High Speed								
12	600	48	2.7	IXGH24N60A-ND◆	8.61	7.18	5.74	IXGH24N60A
	600	75	2.7	IXGH50N60A-ND◆	17.01	15.39	13.66	IXGH50N60A
	600	48	2.5	IXGH24N60B-ND	6.03	5.46	4.76	IXGH24N60B
	600	48	2.5	IXGH24N60C-ND	6.24	5.65	4.93	IXGH24N60C
	600	60	2.5	IXGH32N60C-ND◆	7.33	6.64	5.79	IXGH32N60C
	600	75	2.5	IXGH50N60B-ND◆	11.53	10.44	9.12	IXGH50N60B
	600	75	3.0	IXSH40N60A-ND◆	13.29	11.08	7.35	IXSH40N60A
IGBTs — Insulated Gate Bipolar Transistors with Diode, Combi Pack — low V_{CE} (sat)								
12	1000	20	3.5	IXGH10N100U1-ND	11.66	10.55	9.37	IXGH10N100U1
	1000	34	3.5	IXGH17N100U1-ND◆	11.91	10.78	9.57	IXGH17N100U1
	1700	25	3.3	IXBH16N170-ND◆	16.47	13.73	9.12	IXBH16N170
	600	60	2.3	IXGH32N60BU1-ND◆	12.96	10.80	7.16	IGH32N60BU1
13	600	75	3.0	IXGM40N60A-ND◆	39.87	33.23	26.58	IXGM40N60A
IGBTs — Insulated Gate Bipolar Transistors with Diode, Combi Pack — High Speed								
12	600	48	2.7	IXGH24N60AU1-ND◆	9.49	8.59	7.63	IXGH24N60AU1
	600	60	1.8	IXGH30N60BD1-ND◆	10.77	9.75	8.52	IXGH30N60BD1
	600	60	2.5	IXGH32N60CD1-ND◆	9.26	8.38	7.32	IXGH32N60CD1
	600	55	2.5	IXSH30N60CD1-ND◆	11.09	10.04	8.77	IXSH30N60CD1
	1000	20	4.0	IXGH10N100AU1-ND	11.30	10.23	9.09	IXGH10N100AU1
	1000	34	4.0	IXGH17N100AU1-ND	12.08	10.93	9.71	IXGH17N100AU1
IGBT High Speed With Diode — RoHS Compliant								
12	600	20	2.5	IXSH10N60B2D1-ND	3.02	2.74	2.45	IXSH10N60B2D1
	600	35	2.5	IXSH20N60B2D1-ND	4.28	3.88	3.47	IXSH20N60B2D1
	600	48	2.5	IXSH30N60B2D1-ND	5.52	5.00	4.48	IXSH30N60B2D1
14	600	20	2.5	IXSA10N60B2D1-ND	2.46	2.23	1.99	IXSA10N60B2D1
	600	35	2.5	IXSA20N60B2D1-ND	3.76	3.41	3.05	IXSA20N60B2D1
15	600	20	2.5	IXSP10N60B2D1-ND	2.42	2.19	1.96	IXSP10N60B2D1
	600	35	2.5	IXSP20N60B2D1-ND	3.72	3.37	3.01	IXSP20N60B2D1
16	600	20	2.5	IXSQ10N60B2D1-ND	2.71	2.46	2.20	IXSQ10N60B2D1
	600	35	2.5	IXSQ20N60B2D1-ND	3.99	3.61	3.23	IXSQ20N60B2D1
17	600	48	2.5	IXST30N60B2D1-ND	6.55	5.93	5.31	IXST30N60B2D1
	1700	75	3.3	IXGT32N170CT-ND†	16.49	12.98	11.76	IXGT32N170 T&R
	1700	75	3.3	IXGT32N170TR-ND‡	4261.20/400			IXGT32N170 T&R

Fig.	V_{DRM} V	I_{TAV} T_C = 85°C A	I_{TRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Phase Control SCRs								
18	800	16	25	CS8-08IO2-ND◆	14.07	11.73	7.04	CS8-08IO2
	1200	16	25	CS8-12IO2-ND◆	14.76	12.30	7.39	CS8-12IO2
19	800	25	50	CS23-08IO2-ND	22.62	18.85	11.31	CS23-08IO2
	1200	25	50	CS23-12IO2-ND	23.73	19.78	11.87	CS23-12IO2
20	800	63	120	CS35-08IO4-ND◆	29.79	24.83	14.89	CS35-08IO4
	1200	63	120	CS35-12IO4-ND◆	31.26	26.05	15.63	CS35-12IO4
	1400	63	120	CS35-14IO4-ND◆	32.76	27.30	16.38	CS35-14IO4

Fig.	V_{DRM} VA	I_{TAV} @ T_C °C		I_{TRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
SCR Module — RoHS Compliant									
1B	1200	2x116	85	2x180	MCC95-12IO1B-ND	69.63	58.03	34.81	MCC95-12IO1B
	1600	116	85	180	MCC95-16IO8B-ND	73.71	61.43	36.85	MCC95-16IO8B
	1600	2x32	85	2x50	MCC26-16IO1B-ND	47.85	39.88	23.92	MCC26-16IO1B
1C	1600	2x116	85	2x180	MCC95-16IO1B-ND	76.26	63.55	38.12	MCC95-16IO1B
21	1600	2x190	85	2x300	MCC162-16IO1-ND	141.96	118.30	70.99	MCC162-16IO1

Fig.	V_{DSS} max. V	I_{D25} T_C = 25°C A	$R_{DS(on)}$ Ω	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
MOSFETs — N-Channel Enhancement Mode — RoHS Compliant								
22	200	50	.045	IXFM50N20-ND	23.46	19.55	15.65	IXFM50N20
23	500	14	0.4	IRFP450X-ND	4.49	4.07	3.56	IRFP450
MOSFETs — P-Channel Enhancement Mode — RoHS Compliant								
23	-200	-24	.11	IXTH24P20-ND	9.84	8.20	5.45	IXTH24P20
	-600	-10	1.0	IXTH10P60-ND	10.80	9.00	5.98	IXTH10P60
MegaMOSFET™ — N-Channel Enhancement Mode - High Voltage — RoHS Compliant								
23	1100	13	0.920	IXTH13N110-ND	17.58	15.91	13.89	IXTH13N110
MegaMOSFET™ N-Channel Enhancement Mode — RoHS Compliant								
23	500	20	0.27	IRFP460IX-ND	6.15	5.57	4.86	IRFP460
	600	20	0.35	IXTH20N60-ND	10.42	9.43	8.23	IXTH20N60

Fig.	V_{DSS} max. V	I_{D25} T_C = 25°C A	$R_{DS(on)}$ Ω	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
MOSFETs — P-Channel Enhancement Mode Avalanche Rated								
23	-500	-7	1.500	IXTH7P50-ND◆	9.16	8.29	7.24	IXTH7P50
	-500	-8	1.200	IXTH8P50-ND◆	5.40	4.89	4.27	IXTH8P50
	-500	-10	0.900	IXTH10P50-ND	11.19	10.13	8.85	IXTH10P50
	-500	-11	0.750	IXTH11P50-ND◆	10.29	8.58	6.86	IXTH11P50
MOSFETs — N-Channel Enhancement Mode with Fast Intrinsic Diode								
23	70	76	0.011	IXFH76N07-11-ND◆	8.19	7.41	6.47	IXFH76N07-11
	70	76	0.012	IXFH76N07-12-ND◆	7.79	7.05	6.15	IXFH76N07-12
	100	80	0.015	IXFH80N10Q-ND◆	11.55	10.45	9.13	IXFH80N10Q
	200	42	0.06	IXFH42N20-ND◆	13.50	12.22	10.85	IXFH42N20
	200	50	0.045	IXFH50N20-ND◆	8.19	7.41	6.47	IXFH50N20
	200	58	0.04	IXFH58N20-ND◆	8.55	7.74	6.76	IXFH58N20
	200	58	0.040	IXFH58N20Q-ND◆	8.55	7.74	6.76	IXFH58N20Q
	200	80	0.028	IXFH80N20Q-ND◆	12.33	11.16	9.74	IXFH80N20Q
	300	40	0.085	IXFH40N30-ND◆	8.36	7.57	6.61	IXFH40N30
	300	40	0.08	IXFH40N30Q-ND	8.36	7.57	6.61	IXFH40N30Q
	300	40	0.085	IXTH40N30-ND◆	10.77	9.75	8.52	IXTH40N30
	300	52	0.060	IXFH52N30Q-ND◆	12.71	11.50	10.04	IXFH52N30Q
	500	13	0.4	IXFH13N50-ND◆	4.56	4.13	3.62	IXFH13N50
	500	21	0.25	IXFH21N50-ND◆	7.25	6.56	5.83	IXFH21N50
	500	24	0.23	IXFH24N50-ND◆	7.94	7.19	6.27	IXFH24N50
	500	26	0.20	IXFH26N50-ND◆	8.38	7.59	6.62	IXFH26N50
	500	26	0.20	IXFH26N50Q-ND◆	8.38	7.59	6.62	IXFH26N50Q
	500	32	0.15	IXFH32N50-ND◆	13.61	12.32	10.76	IXFH32N50
	600	20	0.35	IXFH20N60-ND◆	9.56	8.65	7.55	IXFH20N60
	600	26	0.250	IXFH26N60Q-ND	12.20	11.04	9.64	IXFH26N60Q
	800	7	1.4	IXFH7N80-ND	6.99	6.33	5.62	IXFH7N80
	800	13	0.80	IXFH13N80-ND◆	10.56	9.56	8.35	IXFH13N80
	800	15	0.60	IXFH15N80-ND◆	13.92	12.60	11.01	IXFH15N80
	800	15	0.600	IXFH15N80Q-ND◆	13.92	12.60	11.01	IXFH15N80Q
	800	20	0.420	IXFH20N80Q-ND◆	15.41	13.95	12.18	IXFH20N80Q
	900	6	1.8	IXFH6N90-ND◆	8.11	7.34	6.51	IXFH6N90
	1000	6	2.0	IXFH6N100-ND◆	7.48	6.77	5.91	IXFH6N100
	1000	10	1.2	IXFH10N100-ND◆	13.38	12.11	10.57	IXFH10N100
	1000	12	1.05	IXFH12N100-ND◆	14.11	12.77	11.16	IXFH12N100
24	70	110	0.006	IXFK110N07-ND◆	17.85	14.88	13.39	IXFK110N07
	100	180	0.008	IXFK180N10-ND◆	24.45	20.38	16.30	IXFK180N10
	200	90	0.023	IXFK90N20-ND◆	16.61	15.03	13.45	IXFK90N20
	200	120	0.017	IXFK120N20-ND◆	25.68	21.40	17.12	IXFK120N20
	300	73	0.045	IXFK73N30-ND◆	24.48	20.40	16.32	IXFK73N30
	500	48	0.10	IXFK48N50-ND◆	26.94	22.45	17.96	IXFK48N50
	500	55	0.09	IXFK55N50-ND◆	33.48	27.90	22.32	IXFK55N50
	600	36	0.180	IXFK36N60-ND	26.49	22.08	17.66	IXFK36N60
	600	44	0.130	IXFK44N60-ND◆	28.98	24.15	19.32	IXFK44N60
	800	27	0.300	IXFK27N80-ND◆	30.09	25.08	22.57	IXFK27N80
	800	34	0.240	IXFK34N80-ND	30.87	25.73	20.58	IXFK34N80
	1000	24	0.390	IXFK24N100-ND◆	33.87	28.23	22.58	IXFK24N100
25	200	120	0.017	IXFX120N20-ND◆	16.63	15.05	13.15	IXFX120N20
	500	55	0.080	IXFX55N50-ND◆	23.81	21.55	18.82	IXFX55N50
	1000	15	0.70	IXFX15N100-ND◆	14.99	13.57	11.85	IXFX15N100
MOSFETs — N-Channel Enhancement Mode with Fast Intrinsic Diode — RoHS Compliant								
24	500	46	0.16	IXTK46N50L-ND ***NEW!***	50.07	41.73	33.38	IXTK46N50L
	600	64	0.096	IXFK64N60P-ND	21.96	18.30	14.64	IXFK64N60P
25	500	64	0.085	IXFX64N50P-ND	16.89	14.08	11.26	IXFX64N50P
	500	80	0.065	IXFX80N50P-ND	22.77	18.98	12.60	IXFX80N50P
	600	48	0.135	IXFX48N60P-ND	16.89	14.08	11.26	IXFX48N60P
	600	64	0.096	IXFX64N60P-ND	22.20	18.50	14.80	IXFX64N60P
26	500	44	0.14	IXFK44N50P-ND	11.67	9.73	7.78	IXFK44N50P
	500	64	0.085	IXFK64N50P-ND	16.23	13.53	10.82	IXFK64N50P
	500	80	0.065	IXFK80N50P-ND	22.08	18.40	14.72	IXFK80N50P
	600	36	0.19	IXFK36N60P-ND	11.67	9.73	7.78	IXFK36N60P
	600	48	0.135	IXFK48N60P-ND	16.23	13.53	10.82	IXFK48N60P
27	500	12	0.5	IXFP12N50P-ND	3.00	2.50	2.00	IXFP12N50P
	500	16	0.4	IXFP16N50P-ND	3.66	3.05	2.44	IXFP16N50P
	600	10	0.74	IXFP10N60P-ND	3.00	2.50	2.00	IXFP10N60P
	600	14	0.55	IXFP14N60P-ND	3.66	3.05	2.44	IXFP14N60P
28	500	16	0.4	IXFH16N50P-ND	4.41	3.68	2.94	IXFH16N50P
	500	22	0.27	IXFH22N50P-ND	5.13	4.28	3.42	IXFH22N50P
	500	26	0.23	IXFH26N50P-ND	6.57	5.48	4.38	IXFH26N50P
	500	30	0.2	IXFH30N50P-ND	7.56	6.30	5.04	IXFH30N50P
	500	36	0.17	IXFH36N50P-ND	8.79	7.33	5.86	IXFH36N50P
	500	44	0.14	IXFH44N50P-ND	10.83	9.03	7.22	IXFH44N50P
	600	14	0.55	IXFH14N60P-ND	4.41	3.68	2.94	IXFH14N60P
	600	18	0.4	IXFH18N60P-ND	5.13	4.28	3.42	IXFH18N60P
	600	22	0.35	IXFH22N60P-ND	6.57	5.48	4.38	IXFH22N60P
	600	26	0.27	IXFH26N60P-ND	7.56	6.30	5.04	IXFH26N60P

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel *(Continued)*

Fig. 26

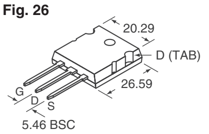

TO-264

Fig. 27

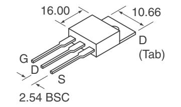

TO-220

Fig. 28

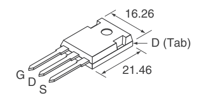

TO-247

Fig. 29

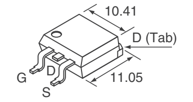

TO-263

Fig. 30

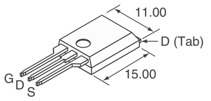

PLUS220

Fig. 31

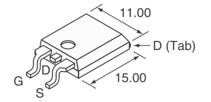

PLUS220SMD

Fig. 32

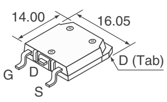

TO-268

Fig. 33

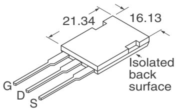

ISOPLUS247™

Fig. 34

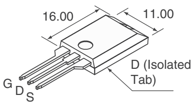

ISOPLUS220™

Fig. 35

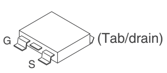

TO-268

Fig. 36

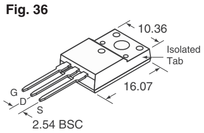

Overmolded TO-220

Fig. 37

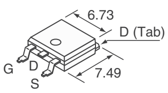

TO-252

Fig. 38

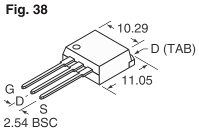

Leaded TO-263

Fig.	V_{DSS} max. V	I_{D25} T_C = 25°C A	R_{DS}(on) Ω	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
28	600	30	0.24	IXFH30N60P-ND	8.79	7.33	5.86	IXFH30N60P
	600	36	0.19	IXFH36N60P-ND	10.83	9.03	7.22	IXFH36N60P
29	500	12	0.5	IXFA12N50P-ND	3.12	2.60	2.08	IXFA12N50P
	500	16	0.4	IXFA16N50P-ND	3.78	3.15	2.52	IXFA16N50P
	600	10	0.74	IXFA10N60P-ND	3.12	2.60	2.08	IXFA10N60P
	600	14	0.55	IXFA14N60P-ND	3.78	3.15	2.52	IXFA14N60P
30	300	52	0.066	IXFV52N30P-ND	6.93	5.78	4.62	IXFV52N30P
	500	22	0.27	IXFV22N50P-ND	5.76	4.80	3.84	IXFV22N50P
	500	26	0.23	IXFV26N50P-ND	7.23	6.03	4.82	IXFV26N50P
	500	30	0.2	IXFV30N50P-ND	8.22	6.85	5.48	IXFV30N50P
	500	36	0.17	IXFV36N50P-ND	9.57	7.98	6.38	IXFV36N50P
	600	18	0.4	IXFV18N60P-ND	5.76	4.80	3.84	IXFV18N60P
	600	22	0.35	IXFV22N60P-ND	7.23	6.03	4.82	IXFV22N60P
	600	26	0.27	IXFV26N60P-ND	8.22	6.85	5.48	IXFV26N60P
	600	30	0.24	IXFV30N60P-ND	9.57	7.98	6.38	IXFV30N60P
31	500	22	0.27	IXFV22N50PS-ND	5.76	4.80	3.84	IXFV22N50PS
	500	26	0.23	IXFV26N50PS-ND	7.23	6.03	4.82	IXFV26N50PS
	500	30	0.2	IXFV30N50PS-ND	8.22	6.85	5.48	IXFV30N50PS
	500	36	0.17	IXFV36N50PS-ND	9.57	7.98	6.38	IXFV36N50PS
	600	18	0.4	IXFV18N60PS-ND	5.76	4.80	3.84	IXFV18N60PS
	600	22	0.35	IXFV22N60PS-ND	7.23	6.03	4.82	IXFV22N60PS
	600	26	0.27	IXFV26N60PS-ND	8.22	6.85	5.48	IXFV26N60PS
	600	30	0.24	IXFV30N60PS-ND	9.57	7.98	6.38	IXFV30N60PS
32	500	30	0.2	IXFT30N50P-ND	7.98	6.65	5.32	IXFT30N50P
	500	36	0.17	IXFT36N50P-ND	9.24	7.70	6.16	IXFT36N50P
	500	44	0.14	IXFT44N50P-ND	11.37	9.48	7.58	IXFT44N50P
	600	26	0.27	IXFT26N60P-ND	7.98	6.65	5.32	IXFT26N60P
	600	30	0.24	IXFT30N60P-ND	9.24	7.70	6.16	IXFT30N60P
	600	36	0.19	IXFT36N60P-ND	11.37	9.48	7.58	IXFT36N60P
MOSFETs — MiniBLOC™ N-Channel Enhancement Mode with Fast Intrinsic Diode								
6A	70	200	0.006	IXFN200N07-ND◆	39.03	32.53	26.02	IXFN200N07
	200	106	0.020	IXFN106N20-ND◆	37.80	31.50	25.20	IXFN106N20
	200	180	0.010	IXFN180N20-ND◆	65.61	54.68	43.74	IXFN180N20
	500	44	0.12	IXFN44N50-ND◆	35.70	29.75	23.80	IXFN44N50
	500	48	0.10	IXFN48N50-ND◆	36.42	30.35	24.28	IXFN48N50
	1000	36	0.24	IXFN36N100-ND◆	87.33	72.78	58.22	IXFN36N100
6B	200	120	0.017	IXFN120N20-ND	42.81	35.68	28.54	IXFN120N20
6C	500	80	0.050	IXFN80N50-ND◆	72.30	60.25	48.20	IXFN80N50
	900	26	0.300	IXFN26N90-ND	51.24	42.70	34.16	IXFN26N90
	1000	24	0.390	IXFN24N100-ND◆	50.79	42.33	33.86	IXFN24N100
	300	130	0.022	IXFN130N30-ND◆	71.91	59.93	47.94	IXFN130N30
	600	36	0.18	IXFN36N60-ND◆	45.51	37.93	30.34	IXFN36N60
25	100	180	0.008	IXFX180N10-ND◆	16.63	15.05	13.15	IXFX180N10
MOSFETs — MiniBLOC™ N-Channel Enhancement Mode with Fast Intrinsic Diode — RoHS Compliant								
6B	500	61	0.085	IXFN64N50P-ND	30.36	25.30	20.24	IXFN64N50P
	600	40	0.14	IXFN48N60P-ND	30.36	25.30	20.24	IXFN48N60P
6C	500	66	0.065	IXFN80N50P-ND	36.33	30.28	24.22	IXFN80N50P
	600	50	0.096	IXFN64N60P-ND	35.73	29.78	23.82	IXFN64N60P
MOSFETs — ISOPLUS247™ N-Channel Enhancement Mode with Fast Intrinsic Diode								
33	100	165	0.008	IXFR180N10-ND	18.50	16.74	14.62	IXFR180N10
	200	105	0.017	IXFR120N20-ND	18.86	17.07	14.90	IXFR120N20
	600	38	0.130	IXFR44N60-ND	21.23	19.21	16.78	IXFR44N60
MOSFETs — ISOPLUS247™ N-Channel Enhancement Mode with Fast Intrinsic Diode — RoHS Compliant								
33	500	36	0.19	IXFR36N50P-ND	11.82	9.85	7.88	IXFR36N50P
	500	44	0.15	IXFR44N50P-ND	13.92	11.60	9.28	IXFR44N50P
	500	35	0.095	IXFR64N50P-ND	18.60	15.50	12.40	IXFR64N50P
	500	45	0.072	IXFR80N50P-ND	24.57	20.48	16.38	IXFR80N50P
	600	30	0.25	IXFR30N60P-ND	11.82	9.85	7.88	IXFR30N60P
	600	36	0.2	IXFR36N60P-ND	13.92	11.60	9.28	IXFR36N60P
	600	32	0.15	IXFR48N60P-ND	18.60	15.50	12.40	IXFR48N60P
	600	64	0.105	IXFR64N60P-ND	24.06	20.05	16.04	IXFR64N60P
MOSFETs — ISOPLUS220™ N-Channel Enhancement Mode with Fast Intrinsic Diode — RoHS Compliant								
34	500	10	0.45	IXFC16N50P-ND	5.82	4.85	3.88	IXFC16N50P
	500	26	0.26	IXFC26N50P-ND	8.10	6.75	5.40	IXFC26N50P
	500	36	0.19	IXFC36N50P-ND	10.47	8.73	6.98	IXFC36N50P
	600	8	0.63	IXFC14N60P-ND	5.82	4.85	3.88	IXFC14N60P
	600	22	0.36	IXFC22N60P-ND	8.10	6.75	5.40	IXFC22N60P
	600	30	0.25	IXFC30N60P-ND	10.47	8.73	6.98	IXFC30N60P
MOSFETs — N-Channel Enhancement Avalanche Rated, High Voltage — RoHS Compliant								
14	1200	3	4.5	IXTA3N120CT-ND†	5.68	3.97	3.26	IXTA3N120TRL
				IXTA3N120TR-ND‡		2319.20/800		
27	1200	3	4.5	IXTP3N120-ND	4.77	4.32	3.77	IXTP3N120
MOSFETs — N-Channel Enhancement Mode Avalanche Rated								
25	300	90	0.033	IXFX90N30-ND◆	16.78	15.19	13.26	IXFX90N30
	800	34	0.240	IXFX34N80-ND	19.40	17.56	15.34	IXFX34N80

Fig.	V_{DSS} max. V	I_{D25} T_C = 25°C A	R_{DS}(on) Ω	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
35	200	58	0.040	IXFT58N20Q-ND◆	12.24	11.08	9.67	IXFT58N20Q
	500	32	0.16	IXFT32N50Q-ND	13.82	12.51	10.92	IXFT32N50Q
MOSFETs — N-Channel Enhancement Mode Avalanche Rated — RoHS Compliant								
16	500	16	0.4	IXTQ16N50P-ND	3.87	3.23	2.58	IXTQ16N50P
	500	22	0.27	IXTQ22N50P-ND	4.56	3.80	3.04	IXTQ22N50P
	500	26	0.23	IXTQ26N50P-ND	5.88	4.90	3.92	IXTQ26N50P
	500	30	0.2	IXTQ30N50P-ND	7.05	5.88	4.70	IXTQ30N50P
	500	36	0.17	IXTQ36N50P-ND	8.28	6.90	5.52	IXTQ36N50P
	600	14	0.55	IXTQ14N60P-ND	3.87	3.23	2.58	IXTQ14N60P
	600	18	0.42	IXTQ18N60P-ND	4.56	3.80	3.04	IXTQ18N60P
	600	22	0.35	IXTQ22N60P-ND	5.88	4.90	3.92	IXTQ22N60P
	600	26	0.27	IXTQ26N60P-ND	7.05	5.88	4.70	IXTQ26N60P
	600	30	0.24	IXTQ30N60P-ND	8.28	6.90	5.52	IXTQ30N60P
24	250	120	0.024	IXTK120N25P-ND	10.34	7.76	6.99	IXTK120N25P
27	500	1	6.5	IXTP1R6N50P-ND	1.05	.88	.70	IXTP1R6N50P
	500	2	3.75	IXTP2R4N50P-ND	1.11	.93	.74	IXTP2R4N50P
	500	3	2.0	IXTP3N50P-ND	1.11	.93	.74	IXTP3N50P
	500	5	1.4	IXTP5N50P-ND	1.53	1.28	1.02	IXTP5N50P
	500	6	1.1	IXTP6N50P-ND	1.68	1.40	1.12	IXTP6N50P
	500	8	0.8	IXTP8N50P-ND	2.16	1.80	1.44	IXTP8N50P
	500	12	0.5	IXTP12N50P-ND	2.82	2.35	1.88	IXTP12N50P
	500	16	0.4	IXTP16N50P-ND	3.48	2.90	2.32	IXTP16N50P
	600	1.4	9.0	IXTP1R4N60P-ND	1.05	.88	.70	IXTP1R4N60P
	600	2	5.1	IXTP2N60P-ND	1.11	.93	.74	IXTP2N60P
	600	3	2.9	IXTP3N60P-ND	1.14	.95	.63	IXTP3N60P
	600	4	2.0	IXTP4N60P-ND	1.20	1.00	.80	IXTP4N60P
	600	5	1.7	IXTP5N60P-ND	1.35	1.13	.90	IXTP5N60P
	600	7	1.1	IXTP7N60P-ND	2.10	1.75	1.40	IXTP7N60P
	600	10	0.74	IXTP10N60P-ND	2.88	2.40	1.92	IXTP10N60P
	600	14	0.55	IXTP14N60P-ND	3.48	2.90	2.32	IXTP14N60P
28	500	30	0.2	IXTH30N50P-ND	7.50	6.25	5.00	IXTH30N50P
	500	36	0.17	IXTH36N50P-ND	8.73	7.28	5.82	IXTH36N50P
	600	26	0.27	IXTH26N60P-ND	7.50	6.25	5.00	IXTH26N60P
	600	30	0.24	IXTH30N60P-ND	8.73	7.28	5.82	IXTH30N60P
29	500	3	2.0	IXTA3N50P-ND	1.17	.98	.78	IXTA3N50P
	500	5	1.4	IXTA5N50P-ND	1.65	1.38	1.10	IXTA5N50P
	500	6	1.1	IXTA6N50P-ND	1.77	1.48	1.18	IXTA6N50P
	500	8	0.8	IXTA8N50P-ND	2.71	1.77	1.45	IXTA8N50P
	500	12	0.5	IXTA12N50P-ND	2.94	2.45	1.96	IXTA12N50P
	500	16	0.4	IXTA16N50P-ND	3.57	2.98	2.38	IXTA16N50P
	600	3	2.9	IXTA3N60P-ND	1.83	1.53	1.22	IXTA3N60P
	600	4	2.0	IXTA4N60P-ND	1.41	1.18	.94	IXTA4N60P
	600	5	1.7	IXTA5N60P-ND	1.56	1.30	1.04	IXTA5N60P
	600	7	1.1	IXTA7N60P-ND	2.19	1.83	1.46	IXTA7N60P
	600	10	0.74	IXTA10N60P-ND	2.94	2.45	1.96	IXTA10N60P
	600	14	0.55	IXTA14N60P-ND	3.57	2.98	2.38	IXTA14N60P
30	500	22	0.27	IXTV22N50P-ND	5.55	4.63	3.70	IXTV22N50P
	500	26	0.23	IXTV26N50P-ND	6.93	5.78	4.62	IXTV26N50P
	500	30	0.2	IXTV30N50P-ND	9.57	7.98	6.38	IXTV30N50P
	500	36	0.17	IXTV36N50P-ND	10.92	9.10	7.28	IXTV36N50P
	600	18	0.42	IXTV18N60P-ND	5.55	4.63	3.70	IXTV18N60P
	600	22	0.35	IXTV22N60P-ND	6.93	5.78	4.62	IXTV22N60P
	600	26	0.27	IXTV26N60P-ND	9.57	7.98	6.38	IXTV26N60P
	600	30	0.24	IXTV30N60P-ND	10.92	9.10	7.28	IXTV30N60P
31	500	22	0.27	IXTV22N50PS-ND	5.55	4.63	3.70	IXTV22N50PS
	500	26	0.23	IXTV26N50PS-ND	6.93	5.78	4.62	IXTV26N50PS
	500	30	0.2	IXTV30N50PS-ND	9.57	7.98	6.38	IXTV30N50PS
	500	36	0.17	IXTV36N50PS-ND	10.92	9.10	7.28	IXTV36N50PS
	600	18	0.42	IXTV18N60PS-ND	5.55	4.63	3.70	IXTV18N60PS
	600	22	0.35	IXTV22N60PS-ND	6.93	5.78	4.62	IXTV22N60PS
	600	26	0.27	IXTV26N60PS-ND	9.57	7.98	6.38	IXTV26N60PS
	600	30	0.24	IXTV30N60PS-ND	10.92	9.10	7.28	IXTV30N60PS
32	500	30	0.2	IXTT30N50P-ND	9.57	7.98	6.38	IXTT30N50P
	500	36	0.17	IXTT36N50P-ND	10.92	9.10	7.28	IXTT36N50P
	600	26	0.27	IXTT26N60P-ND	9.57	7.98	6.38	IXTT26N60P
	600	30	0.24	IXTT30N60P-ND	10.92	9.10	7.28	IXTT30N60P
36	500	12	0.5	IXTP12N50PM-ND	2.73	2.28	1.82	IXTP12N50PM
	600	10	0.74	IXTP10N60PM-ND	2.73	2.28	1.82	IXTP10N60PM
37	500	1	6.5	IXTY1R6N50P-ND	1.02	.85	.68	IXTY1R6N50P
	500	2	3.75	IXTY2R4N50P-ND	1.05	.88	.70	IXTY2R4N50P
	500	3	2.0	IXTY3N50P-ND	1.05	.88	.70	IXTY3N50P
	600	1.4	9.0	IXTY1R4N60P-ND	1.02	.85	.68	IXTY1R4N60P
	600	2	5.1	IXTY2N60P-ND	1.05	.88	.70	IXTY2N60P
	600	3	2.9	IXTY3N60P-ND	1.05	.88	.70	IXTY3N60P
38	500	12	0.5	IXTI12N50P-ND	2.61	2.18	1.74	IXTI12N50P
	600	10	0.74	IXTI10N60P-ND	2.61	2.18	1.74	IXTI10N60P
MOSFETs — ISOPLUS220™ N-Channel Enhancement Avalanche Rated — RoHS Compliant								
34	500	26	0.26	IXTC26N50P-ND	7.65	6.38	5.10	IXTC26N50P

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Fig.	DC Reverse Voltage (V)	I_F @ 25°C (A)	I_{FSM} @ 25°C (A)	V_F @ 25°C (V)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		MCC Part No.
						1	10	100	Qty.	Pricing	
DO-15 — RoHS Compliant											
1	50	2.0	60	1.0	RL201-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL201-TP
	100	2.0	60	1.0	RL202-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL202-TP
	200	2.0	60	1.0	RL203-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL203-TP
	400	2.0	60	1.0	RL204-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL204-TP
	600	2.0	60	1.0	RL205-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL205-TP
	800	2.0	60	1.0	RL206-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL206-TP
	1000	2.0	60	1.0	RL207-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL207-TP
	50	2.0	75	0.95	EGP20A-TPCT-ND‡	—	4.00	32.00	—	—	EGP20A-TP
	100	2.0	75	0.95	EGP20B-TPCT-ND‡	—	4.00	32.00	—	—	EGP20B-TP
	200	2.0	75	0.95	EGP20D-TPCT-ND‡	—	4.00	32.00	—	—	EGP20D-TP
	300	2.0	75	1.25	EGP20F-TPCT-ND‡	—	4.00	32.00	—	—	EGP20F-TP
	400	2.0	75	1.25	EGP20G-TPCT-ND‡	—	4.00	32.00	4,000	160.00/M	EGP20G-TP
DO-35 — RoHS Compliant											
2	20	—	15	0.37	SD103CTPMSCT-ND	—	2.25	18.00	10,000	90.00/M	SD103C-TP
DO-41 — RoHS Compliant											
3	20	1.0	25	0.45	1N5817-TPCT-ND	—	2.00	16.00	5,000	80.00/M	1N5817-TP
	30	1.0	25	0.55	1N5818-TPCT-ND	—	2.00	16.00	5,000	80.00/M	1N5818-TP
	40	1.0	25	0.60	1N5819-TPCT-ND	—	2.00	16.00	5,000	80.00/M	1N5819-TP
	60	1.0	30	0.70	SR106-TPCT-ND	—	2.00	16.00	—	—	SR106-TP
	100	1.0	30	0.85	SR1010-TPCT-ND	—	2.00	16.00	—	—	SR1010-TP
	50	1.0	30	0.95	EGP10A-TPCT-ND‡	—	2.25	18.00	—	—	EGP10A-TP
	100	1.0	30	0.95	EGP10B-TPCT-ND‡	—	2.25	18.00	—	—	EGP10B-TP
	200	1.0	30	0.95	EGP10D-TPCT-ND‡	—	2.25	18.00	5,000	90.00/M	EGP10D-TP
	300	1.0	30	1.25	EGP10F-TPCT-ND‡	—	2.25	18.00	—	—	EGP10F-TP
	400	1.0	30	1.25	EGP10G-TPCT-ND‡	—	2.25	18.00	—	—	EGP10G-TP
	50	1.0	30	1.1	1N4001-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4001-TP
	100	1.0	30	1.1	1N4002-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4002-TP
	200	1.0	30	1.1	1N4003-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4003-TP
	400	1.0	30	1.1	1N4004-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4004-TP
	600	1.0	30	1.1	1N4005-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4005-TP
	800	1.0	30	1.1	1N4006-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4006-TP
	1000	1.0	30	1.1	1N4007-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4007-TP
	20	2.0	50	0.55	SR202-TPCT-ND	—	2.25	18.00	5,000	90.00/M	SR202-TP
	30	2.0	50	0.55	SR203-TPCT-ND	—	2.25	18.00	5,000	90.00/M	SR203-TP
	60	2.0	50	0.70	SR206-TPCT-ND	—	2.25	18.00	5,000	90.00/M	SR206-TP
	80	2.0	50	0.85	SR208-TPCT-ND	—	2.25	18.00	5,000	90.00/M	SR208-TP
	100	2.0	50	0.85	SR2010-TPCT-ND	—	2.25	18.00	5,000	90.00/M	SR2010-TP
DO-201AD — RoHS Compliant											
4	50	3.0	200	1.0	1N5400-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5400-TP
	100	3.0	200	1.0	1N5401-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5401-TP
	200	3.0	200	1.0	1N5402-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5402-TP
	400	3.0	200	1.0	1N5404-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5404-TP
	600	3.0	200	1.0	1N5406-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5406-TP
	800	3.0	200	1.0	1N5407-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5407-TP
	1000	3.0	200	1.0	1N5408-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5408-TP
	20	3.0	200	1.0	1N5820-TPMSCT-ND ***NEW!***	—	3.00	24.00	1,200	120.00/M	1N5820-TP
	30	3.0	200	1.0	1N5821-TPMSCT-ND ***NEW!***	—	3.00	24.00	1,200	120.00/M	1N5821-TP
	40	3.0	200	1.0	1N5822-TPMSCT-ND ***NEW!***	—	3.00	24.00	1,200	120.00/M	1N5822-TP
	100	6.0	200	1.0	60S1-TPMSCT-ND‡	—	7.00	60.00	1,200	400.00/M	60S1-TP
	600	6.0	200	1.0	60S6-TPMSCT-ND‡	—	7.00	60.00	1,200	400.00/M	60S6-TP
	1000	6.0	200	1.0	60S10-TPMSCT-ND‡	—	7.00	60.00	1,200	400.00/M	60S10-TP
	50	3.0	80	.72	SR305-TPMSCT-ND ***NEW!***	—	3.00	24.00	1,200	120.00/M	SR305-TP
	60	3.0	80	.72	SR306-TPMSCT-ND ***NEW!***	—	3.00	24.00	1,200	120.00/M	SR306-TP
	80	3.0	80	.85	SR308-TPMSCT-ND ***NEW!***	—	3.00	24.00	1,200	120.00/M	SR308-TP
	100	3.0	80	.85	SR3010-TPMSCT-ND ***NEW!***	—	3.00	24.00	1,200	120.00/M	SR3010-TP
DO-201AE — RoHS Compliant											
5	50	3.0	125	0.95	EGP30A-TPCT-ND‡	—	5.00	40.00	—	—	EGP30A-TP
	100	3.0	125	0.95	EGP30B-TPCT-ND‡	—	5.00	40.00	—	—	EGP30B-TP
	200	3.0	125	0.95	EGP30D-TPCT-ND‡	—	5.00	40.00	—	—	EGP30D-TP
	300	3.0	125	1.25	EGP30F-TPCT-ND‡	—	5.00	40.00	—	—	EGP30F-TP
	400	3.0	125	1.25	EGP30G-TPCT-ND‡	—	5.00	40.00	—	—	EGP30G-TP
DO-214AA											
6	800	2.0	50	1.15	S2KMSCT-ND	—	2.25	18.00	—	—	S2K
DO-214AA — RoHS Compliant											
6	20	1.0	30	0.45	SK12-TPMSCT-ND	.42	3.78	31.50	3,000	174.00/M	SK12-TP
	30	1.0	30	0.55	SK13-TPMSCT-ND	.40	3.60	30.00	3,000	166.00/M	SK13-TP
	40	1.0	30	0.60	SK14-TPMSCT-ND	.42	3.78	31.50	3,000	174.00/M	SK14-TP
	50	1.0	30	0.72	SK15-TPMSCT-ND	.56	5.04	42.00	3,000	232.00/M	SK15-TP
	60	1.0	30	0.72	SK16-TPMSCT-ND	.56	5.04	42.00	3,000	232.00/M	SK16-TP
	80	1.0	30	0.85	SK18-TPMSCT-ND	.56	5.04	42.00	3,000	232.00/M	SK18-TP
	100	1.0	30	0.85	SK110-TPMSCT-ND	.64	5.76	48.00	3,000	266.00/M	SK110-TP
	20	2.0	50	0.55	SK22-TPCT-ND	—	6.50	52.00	3,000	260.00/M	SK22-TP
	30	2.0	50	0.55	SK23-TPCT-ND	—	6.50	52.00	3,000	260.00/M	SK23-TP
	40	2.0	50	0.55	SK24-TPCT-ND	—	6.50	52.00	3,000	260.00/M	SK24-TP
	50	2.0	50	0.70	SK25-TPCT-ND	—	6.50	52.00	—	—	SK25-TP
	60	2.0	50	0.70	SK26-TPCT-ND	—	6.50	52.00	—	—	SK26-TP
	80	2.0	50	0.85	SK28-TPCT-ND	—	6.50	52.00	—	—	SK28-TP
	100	2.0	50	0.85	SK210-TPCT-ND	—	6.50	52.00	3,000	260.00/M	SK210-TP
	50	2.0	50	1.15	S2A-TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	S2A-TP
	100	2.0	50	1.15	S2B-TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	S2B-TP
	200	2.0	50	1.15	S2D-TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	S2D-TP

† For Tape and Reel part number, change CT-ND to TR-ND.

‡ Glass Passivated

Fig. 1 — DO-15

Dimensions – mm		
Dim.	Min.	Max.
A	5.80	7.60
B	2.60	3.60
C	0.70	0.90
D	25.40	—

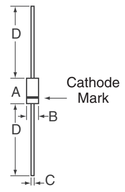

Fig. 2 — DO-35

Dimensions – mm		
Dim.	Min.	Max.
A	—	4.20
B	—	2.00
C	—	0.52
D	25.40	—

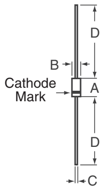

Fig. 3 — DO-41

Dimensions – mm		
Dim.	Min.	Max.
A	4.10	5.20
B	2.00	2.70
C	0.70	0.90
D	25.40	—

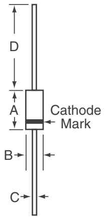

Fig. 4 — DO-201AD

Dimensions – mm		
Dim.	Min.	Max.
A	7.30	9.50
B	4.80	5.30
C	1.20	1.30
D	25.40	—

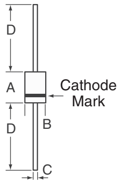

Fig. 5 — DO-201AE

Dimensions – mm		
Dim.	Min.	Max.
A	—	9.50
B	—	6.40
C	0.96	1.06
D	25.40	—

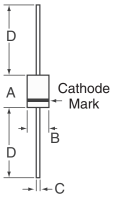

Fig. 6 — DO-214AA, SMT

Dimensions – mm		
Dim.	Min.	Max.
A	1.98	2.95
B	1.90	2.25
C	0.05	0.20
D	—	0.51
E	0.90	1.40
F	1.65	2.32
G	5.21	5.69
H	4.06	4.57
J	3.30	3.94

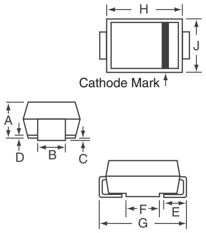

Fig. 7 — SMA *NEW!*

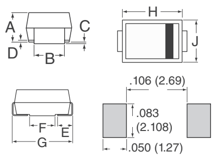

Dimensions – mm		
Dim.	Min.	Max.
A	2.00	2.44
B	1.27	1.63
C	0.05	0.20
D	—	0.51
E	0.76	1.52
F	1.65	2.32
G	4.80	5.59
H	4.00	4.60
J	2.25	2.92

(Continued)

Diodes *(Cont.)*

Fig.	DC Reverse Voltage (V)	I_F @ 25°C (A)	I_{FSM} @ 25°C (A)	V_F @ 25°C (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing	MCC Part No.
6	400	2.0	50	1.15	S2G-TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	S2G-TP
	600	2.0	50	1.15	S2J-TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	S2J-TP
	800	2.0	50	1.15	S2K-TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	S2K-TP
	1000	2.0	50	1.15	S2M-TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	S2M-TP
	20	3.0	100	0.50	SK32B-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK32B-TP
	30	3.0	100	0.50	SK33B-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK33B-TP
	40	3.0	100	0.50	SK34B-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK34B-TP
	60	3.0	100	0.75	SK36B-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK36B-TP
	80	3.0	100	0.85	SK38B-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK38B-TP
	100	3.0	100	0.85	SK310B-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK310B-TP
NEW! SMA — RoHS Compliant NEW!											
7	50	1.0	30	1.0	US1A-TPMSCT-ND	—	2.25	18.00	5,000	90.00/M	US1A-TP
	100	1.0	30	1.0	US1B-TPMSCT-ND	—	2.25	18.00	5,000	90.00/M	US1B-TP
	200	1.0	30	1.0	US1D-TPMSCT-ND	—	2.25	18.00	5,000	90.00/M	US1D-TP
	400	1.0	30	1.4	US1G-TPMSCT-ND	—	2.25	18.00	5,000	90.00/M	US1G-TP
	600	1.0	30	1.7	US1J-TPMSCT-ND	—	2.25	18.00	5,000	90.00/M	US1J-TP
	800	1.0	30	1.7	US1K-TPMSCT-ND	—	2.25	18.00	5,000	90.00/M	US1K-TP
	1000	1.0	30	1.7	US1M-TPMSCT-ND	—	2.25	18.00	5,000	90.00/M	US1M-TP
DO-214AB											
8	800	3.0	100	1.20	S3KMSCT-ND	—	5.00	40.00	—	—	S3K
DO-214AB — RoHS Compliant											
8	50	3.0	100	1.20	S3A-TPMSCT-ND	—	5.00	40.00	3,000	200.00/M	S3A-TP
	100	3.0	100	1.20	S3B-TPMSCT-ND	—	7.00	56.00	—	—	S3B-TP
	200	3.0	100	1.20	S3D-TPMSCT-ND	—	5.00	40.00	3,000	200.00/M	S3D-TP
	400	3.0	100	1.20	S3G-TPMSCT-ND	—	5.00	40.00	3,000	200.00/M	S3G-TP
	600	3.0	100	1.20	S3J-TPMSCT-ND	—	5.00	40.00	3,000	200.00/M	S3J-TP
	1000	3.0	100	1.20	S3M-TPMSCT-ND	—	5.00	40.00	—	—	S3M-TP
	400	5.0	100	1.20	S5GL-TPCT-ND	.40	3.50	30.00	3,000	200.00/M	S5GL-TP
	600	5.0	100	1.20	S5JL-TPCT-ND	.40	3.50	30.00	3,000	200.00/M	S5JL-TP
	800	5.0	100	1.20	S5KL-TPCT-ND	.40	3.50	30.00	3,000	200.00/M	S5KL-TP
	1000	5.0	100	1.20	S5ML-TPCT-ND	.40	3.50	30.00	3,000	200.00/M	S5ML-TP
	20	3.0	100	0.50	SK32-TPMSCT-ND	.72	6.48	54.00	3,000	315.00/M	SK32-TP
	30	3.0	100	0.50	SK33-TPMSCT-ND	.72	6.48	54.00	3,000	315.00/M	SK33-TP
	40	3.0	100	0.50	SK34-TPMSCT-ND	.72	6.48	54.00	3,000	315.00/M	SK34-TP
	50	3.0	100	0.75	SK35-TPMSCT-ND	.72	6.48	54.00	3,000	315.00/M	SK35-TP
	60	3.0	100	0.75	SK36-TPMSCT-ND	.72	6.48	54.00	3,000	315.00/M	SK36-TP
	80	3.0	100	0.85	SK38-TPMSCT-ND	.72	6.48	54.00	3,000	315.00/M	SK38-TP
	30	10.0	250	0.65	SK103-TPCT-ND	1.00	8.75	75.00	1,500	812.50/M	SK103-TP
	40	10.0	250	0.65	SK104-TPCT-ND	1.00	8.75	75.00	1,500	812.50/M	SK104-TP
	60	10.0	250	0.65	SK106-TPCT-ND	1.00	8.75	75.00	1,500	812.50/M	SK106-TP
	30	10.0	250	0.65	SK153-TPCT-ND	1.40	12.25	105.00	1,500	1137.50/M	SK153-TP
	40	10.0	250	0.65	SK154-TPCT-ND	1.40	12.25	105.00	1,500	1137.50/M	SK154-TP
	35	10.0	250	0.65	SK1035-TPCT-ND	1.00	8.75	75.00	1,500	812.50/M	SK1035-TP
	45	10.0	250	0.65	SK1045-TPCT-ND	1.00	8.75	75.00	1,500	812.50/M	SK1045-TP
	40	10.0	250	0.65	SK1535-TPCT-ND	1.40	12.25	105.00	1,500	1137.50/M	SK1535-TP
	45	10.0	250	0.65	SK1545-TPCT-ND	1.40	12.25	105.00	1,500	1137.50/M	SK1545-TP
NEW! SMB — RoHS Compliant NEW!											
9	50	3.0	100	1.15	S3AB-TPMSCT-ND	—	4.00	32.00	3,000	160.00/M	S3AB-TP
	100	3.0	100	1.15	S3BB-TPMSCT-ND	—	4.00	32.00	3,000	160.00/M	S3BB-TP
	200	3.0	100	1.15	S3DB-TPMSCT-ND	—	4.00	32.00	3,000	160.00/M	S3DB-TP
	400	3.0	100	1.15	S3GB-TPMSCT-ND	—	4.00	32.00	3,000	160.00/M	S3GB-TP
	600	3.0	100	1.15	S3JB-TPMSCT-ND	—	4.00	32.00	3,000	160.00/M	S3JB-TP
	800	3.0	100	1.15	S3KB-TPMSCT-ND	—	4.00	32.00	3,000	160.00/M	S3KB-TP
	1000	3.0	100	1.15	S3MB-TPMSCT-ND	—	4.00	32.00	3,000	160.00/M	S3MB-TP
DO-214AC — RoHS Compliant											
10	50	1.0	30	0.975	ES1A-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1A-TP
	100	1.0	30	0.975	ES1B-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1B-TP
	200	1.0	30	0.975	ES1D-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1D-TP
	400	1.0	30	1.35	ES1G-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1G-TP
	600	1.0	30	1.35	ES1J-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1J-TP
	800	1.0	30	1.35	ES1K-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1K-TP
	1000	1.0	30	1.60	ES1M-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1M-TP
	50	2.0	50	0.975	ES2A-TPCT-ND	.28	2.45	21.00	3,000	140.00/M	ES2A-TP
	100	2.0	50	0.975	ES2B-TPCT-ND	.28	2.45	21.00	3,000	140.00/M	ES2B-TP
	150	2.0	50	0.975	ES2C-TPCT-ND	.28	2.45	21.00	3,000	140.00/M	ES2C-TP
	200	2.0	50	0.975	ES2D-TPCT-ND	.28	2.45	21.00	3,000	140.00/M	ES2D-TP
	50	1.0	30	1.1	GS1A-TPCT-ND	—	1.25	10.00	3,000	50.00/M	GS1A-TP
	100	1.0	30	1.1	GS1B-TPCT-ND	—	1.25	10.00	3,000	50.00/M	GS1B-TP
	200	1.0	30	1.1	GS1D-TPCT-ND	—	1.25	10.00	3,000	50.00/M	GS1D-TP
	400	1.0	30	1.1	GS1G-TPCT-ND	—	1.25	10.00	3,000	50.00/M	GS1G-TP
	600	1.0	30	1.1	GS1J-TPCT-ND	—	1.25	10.00	3,000	50.00/M	GS1J-TP
	800	1.0	30	1.1	GS1K-TPCT-ND	—	1.50	12.00	—	—	GS1K-TP
	1000	1.0	30	1.1	GS1M-TPCT-ND	—	1.50	12.00	3,000	60.00/M	GS1M-TP
	20	1.0	30	0.45	SS12-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS12-TP
	30	1.0	30	0.55	SS13-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS13-TP
	40	1.0	30	0.60	SS14-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS14-TP
	50	1.0	30	0.70	SS15-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS15-TP
	60	1.0	30	0.70	SS16-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS16-TP
	80	1.0	30	0.85	SS18-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS18-TP
	100	1.0	30	0.85	SS110-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS110-TP
	20	3.0	100	0.50	SK32A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK32A-TP
	30	3.0	100	0.50	SK33A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK33A-TP
	40	3.0	100	0.50	SK34A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK34A-TP
	50	3.0	100	0.75	SK35A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK35A-TP
	60	3.0	100	0.75	SK36A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK36A-TP
	80	3.0	100	0.85	SK38A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK38A-TP
	100	3.0	100	0.85	SK310A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK310A-TP

† For Tape and Reel part number, change CT-ND to TR-ND.

‡ Glass Passivated

Fig. 8 — DO-214AB, SMT

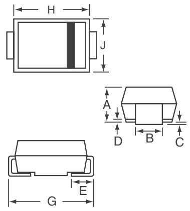

Dimensions – mm		
Dim.	Min.	Max.
A	5.08	5.43
B	4.70	5.30
C	0.050‡	0.13
D	—	0.51
E	1.20	1.42•
G	7.85	8.18
H	6.08	6.18
J	5.95	6.10

- 1.27mm for S3A thru S3M

‡ 0.051mm for S3A thru S3M

Fig. 9 — SMB *NEW!*

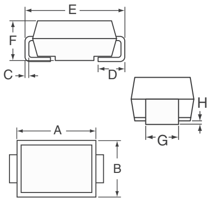

Dimensions – mm		
Dim.	Min.	Max.
A	4.06	4.70
B	3.30	3.94
C	0.15	0.31
D	0.76	1.52
E	5.08	5.59
F	2.01	2.62
G	1.91	2.21
H	0.05	0.203

Fig. 10 — DO-214AC,

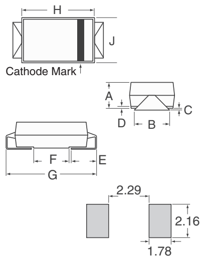

Dimensions – mm		
Dim.	Min.	Max.
A	1.98	2.95
B	1.70	2.25
C	0.05	0.20
D	—	0.51
E	0.89	1.40
F	1.65	2.45
G	5.21	5.69
H	4.06	4.57
J	2.57	2.84

Fig. 11 — MELF, SMT

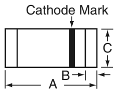

Dimensions – mm		
Dim.	Min.	Max.
A	4.83	5.21
B	—	0.56
C	2.41	2.51

Fig. 12 — MINIMELF, SMT

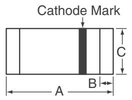

Dimensions – mm		
Dim.	Min.	Max.
A	3.40	3.60
B	0.20	0.40
C	1.40	1.50

Fig. 13 — R-6

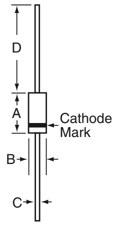

Dimensions – mm		
Dim.	Min.	Max.
A	8.64	9.14
B	8.64	9.14
C	1.22	1.32
D	25.40	—

Fig. 14 — SOD-123

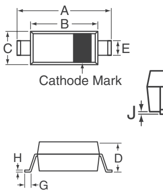

Dimensions – mm		
Dim.	Min.	Max.
A	3.55	3.85
B	2.55	2.85
C	1.40	1.80
D	—	1.35
E	0.30	0.78
G	0.15	—
H	—	0.25
J	—	0.15

(Continued)

Diodes *(Cont.)*

Fig.	DC Reverse Voltage (V)	I_F @ 25°C (A)	I_{FSM} @ 25°C (A)	V_F @ 25°C (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing	MCC Part No.
					MELF — RoHS Compliant						
11	50	1.0	30	1.1	DL4001-TPMSCT-ND	—	1.50	12.75	5,000	60.00/M	DL4001-TP
	100	1.0	30	1.1	DL4002-TPMSCT-ND	—	1.50	12.75	5,000	60.00/M	DL4002-TP
	200	1.0	30	1.1	DL4003-TPMSCT-ND	—	1.50	12.75	5,000	60.00/M	DL4003-TP
	400	1.0	30	1.1	DL4004-TPMSCT-ND	—	1.50	12.75	5,000	60.00/M	DL4004-TP
	600	1.0	30	1.1	DL4005-TPMSCT-ND	—	1.50	12.75	5,000	60.00/M	DL4005-TP
	800	1.0	30	1.1	DL4006-TPMSCT-ND	—	1.50	12.75	5,000	60.00/M	DL4006-TP
	1000	1.0	30	1.1	DL4007-TPMSCT-ND	—	1.50	12.75	5,000	60.00/M	DL4007-TP
					MINIMELF — RoHS Compliant						
12	200	0.25	1.0	1.25	BAV102TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	BAV102-TP
	250	0.25	1.0	1.25	BAV103TPMSCT-ND	—	2.00	16.00	—	—	BAV103-TP
	20	0.35	15	0.37	LLSD103CTPMSCT-ND	—	2.25	18.00	2,500	90.00/M	LLSD103C-TP
	75	0.50	—	1.0	DL4151TPMSCT-ND	—	.60	4.80	2,500	24.00/M	DL4151-TP
					R-6 — RoHS Compliant						
13	50	6.0	400	0.95	6A05-TPMSCT-ND	.53	3.85	28.00	500	105.00	6A05-TP
	100	6.0	400	0.95	6A1-TPMSCT-ND	.53	3.85	28.00	500	105.00	6A1-TP
	200	6.0	400	0.95	6A2-TPMSCT-ND	.53	3.85	28.00	500	105.00	6A2-TP
	400	6.0	400	0.95	6A4-TPMSCT-ND	.53	3.85	28.00	500	105.00	6A4-TP
	600	6.0	400	0.95	6A6-TPMSCT-ND	.53	3.85	28.00	500	105.00	6A6-TP
	800	6.0	400	0.95	6A8-TPMSCT-ND	.53	3.85	28.00	500	105.00	6A8-TP
	1000	6.0	400	0.95	6A10-TPMSCT-ND	.53	3.85	28.00	500	105.00	6A10-TP
					SOD-123 — RoHS Compliant						
14	120	—	1.0	1.25	BAV19WTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	BAV19W-TP
	200	—	1.0	1.25	BAV20WTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	BAV20W-TP
	250	—	1.0	1.25	BAV21WTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	BAV21W-TP
	20	0.50	5.5	0.45	MBR0520TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBR0520-TP
	30	0.50	5.5	0.55	MBR0530TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBR0530-TP
	40	0.50	5.5	0.55	MBR0540TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBR0540-TP
	60	0.50	5.5	0.70	MBR0560TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBR0560-TP
	20	1.0	20	0.50	MBRX120TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBRX120-TP
	30	1.0	20	0.55	MBRX130TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBRX130-TP
	40	1.0	20	0.55	MBRX140TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBRX140-TP
	60	1.0	20	0.72	MBRX160TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBRX160-TP
	30	0.35	1.5	0.37	SD103BWTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD103BW-TP
	20	0.35	1.5	0.37	SD103CWTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD103CW-TP
	40	0.35	1.5	0.37	SD103AWTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD103AW-TP
	40	0.001	2.0	0.39	SD101CWTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD101CW-TP
	50	0.001	2.0	0.4	SD101BWTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD101BW-TP
	60	0.001	2.0	0.41	SD101AWTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD101AW-TP
	30	0.20	4.0	0.4	BAT42WTPMSCT-ND	—	2.50	20.00	3,000	100.00/M	BAT42W-TP
	30	0.20	4.0	0.33	BAT43WTPMSCT-ND	—	2.50	20.00	3,000	100.00/M	BAT43W-TP
					SOD-323 — RoHS Compliant						
15	120	0.25	1.0	1.25	BAV19WSTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	BAV19WS-TP
	200	0.25	1.0	1.25	BAV20WSTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	BAV20WS-TP
	250	0.25	1.0	1.25	BAV21WSTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	BAV21WS-TP
	30	0.20	4.0	0.40	BAT42WSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	BAT42WS-TP
	30	0.20	4.0	0.33	BAT43WSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	BAT43WS-TP
	30	—	0.20	0.37	BAT54WS-TPCT-ND	—	1.00	8.00	3,000	40.00/M	BAT54WS-TP
	20	0.25	12.5	0.45	MBRX02520TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX02520-TP
	30	0.25	12.5	0.55	MBRX02530TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX02530-TP
	40	0.25	12.5	0.55	MBRX02540TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX02540-TP
	50	0.25	12.5	0.70	MBRX02550TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX02550-TP
	60	0.25	12.5	0.70	MBRX02560TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX02560-TP
	20	0.50	20	0.45	MBRX0520TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX0520-TP
	30	0.50	20	0.55	MBRX0530TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX0530-TP
	40	0.50	20	0.55	MBRX0540TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX0540-TP
	60	0.50	20	0.70	MBRX0560TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX0560-TP
	20	0.35	1.5	0.37	SD103CWSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD103CWS-TP
	40	0.35	1.5	0.37	SD103AWSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD103AWS-TP
	40	0.001	2.0	0.39	SD101CWSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD101CWS-TP
	50	0.001	2.0	0.4	SD101BWSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD101BWS-TP
	60	0.001	2.0	0.41	SD101AWSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD101AWS-TP
	20	0.500	2.0	0.47	RB551V-30-TPMSCT-ND ***NEW!***	—	1.90	15.20	3,000	76.00/M	RB551V-30-TP
	30	0.03	0.20	0.37	RB751V-40-TPMSCT-ND ***NEW!***	—	1.90	15.20	3,000	76.00/M	RB751V-40-TP
	40	0.100	1.0	0.45	RB500V-40-TPMSCT-ND ***NEW!***	—	1.90	15.20	3,000	76.00/M	RB500V-40-TP
	40	0.100	1.0	0.55	RB501V-40-TPMSCT-ND ***NEW!***	—	1.90	15.20	3,000	76.00/M	RB501V-40-TP
					SOD-523 — RoHS Compliant						
16	30	0.20	0.60	0.32	BAT54WX-TPCT-ND	—	1.00	8.00	3,000	40.00/M	BAT54WX-TP
	30	0.20	1.0	0.60	RB520S-30-TPMSCT-ND ***NEW!***	—	1.90	15.20	3,000	76.00/M	RB520S-30-TP
	30	0.20	1.0	0.50	RB521S-30-TPMSCT-ND ***NEW!***	—	1.90	15.20	3,000	76.00/M	RB521S-30-TP
	30	0.03	0.20	0.37	RB751S-40-TPMSCT-ND ***NEW!***	—	1.90	15.20	3,000	76.00/M	RB751S-40-TP
	40	0.20	1.0	0.37	RB520S-40-TPMSCT-ND ***NEW!***	—	1.90	15.20	3,000	76.00/M	RB520S-40-TP
					NEW! SOD-723 — RoHS Compliant NEW!						
17	30	0.10	0.5	0.45	RB520G-30-TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	RB520G-30-TP
	30	0.10	1.0	0.35	RB521G-30-TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	RB521G-30-TP
	30	0.03	.20	0.37	RB751G-40-TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	RB751G-40-TP
					SOT-23 — RoHS Compliant						
18	30	0.30	1.0	0.40	BAT54TPMSCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54-TP
	30	0.30	1.0	0.40	BAT54ATPMSCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54A-TP
	30	0.30	1.0	0.40	BAT54CTPMSCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54C-TP
	30	0.30	1.0	0.40	BAT54STPMSCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54S-TP
	40	0.20	—	0.38	BAS40TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS40-TP

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Glass Passivated

Fig. 15 — SOD-323

Dim.	Min.	Max.
Dimensions – mm		
A	2.30	2.70
B	1.60	1.80
C	1.15	1.35
D	0.80	1.15
E	0.25	0.40
G	0.10	0.45
H	0.10	0.25
J	—	0.15

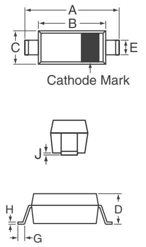

Fig. 16 — SOD-523

Dim.	Min.	Max.
Dimensions – mm		
A	1.50	1.70
B	1.10	1.30
C	0.75	0.85
D	0.01	0.07
E	0.25	0.35
F	0.08	0.15
G	0.50	0.70
H	0.51	0.78

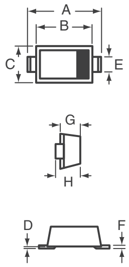

Fig. 17 — SOD-723 ***NEW!***

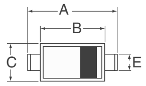

Dim.	Min.	Max.
Dimensions – mm		
A	1.30	1.50
B	0.90	1.10
C	0.55	0.65
E	0.25	0.35

Fig. 18 — SOT-23

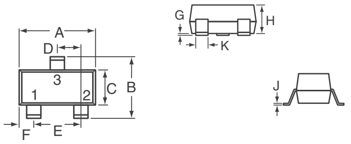

Dim.	Min.	Max.
Dimensions – mm		
A	2.80	3.04
B	2.10	2.64
C	1.20	1.40
D	0.89	1.03
E	1.78	2.05
F	0.45	0.60
G	0.013	0.100
H	0.89	1.12
J	0.085	0.180
K	0.37	0.51

Mfg. Part No.	Pinning Number 1	2	3
BAT54	A	—	K
BAT54A	K	K	A
BAT54C	A	A	K
BAT54S	A	K	A/K
BAS40	A	—	K
BAS40-04	A	A/K	K
BAS40-05	A	A	K
BAS40-06	K	K	A
BAS70	A	—	K
BAS70-04	A	A/K	K
BAS70-05	A	A	K
BAS70-06	K	K	A
MMBD4448	A	K	—

Fig. 19 — SOT-323

Dim.	Min.	Max.
Dimensions – mm		
A	1.80	2.20
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
E	1.20	1.40
F	0.30	0.40
G	—	0.10
H	0.90	1.00
J	0.100	0.250
K	0.30	0.40

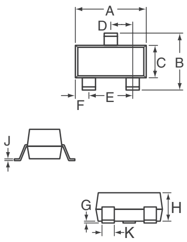

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Digi Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Diodes *(Cont.)*

Fig.	DC Reverse Voltage (V)	I_F @ 25°C (A)	I_{FSM} @ 25°C (A)	V_F @ 25°C (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing	MCC Part No.
18	40	0.20	—	0.38	BAS40-04TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS40-04-TP
	40	0.20	—	0.38	BAS40-05TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS40-05-TP
	40	0.20	—	0.38	BAS40-06TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS40-06-TP
	70	0.20	—	0.41	BAS70TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS70-TP
	70	0.20	—	0.41	BAS70-04TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS70-04-TP
	70	0.20	—	0.41	BAS70-05TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS70-05-TP
	70	0.20	—	0.41	BAS70-06TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS70-06-TP
	75	0.50	4.0	0.855	MMBD4448TPMSCT-ND	—	1.00	8.00	3,000	40.00/M	MMBD4448-TP
SOT-323 — RoHS Compliant											
19	75	0.15	—	1.0	MMBD4148WTTPMSCT-ND	—	1.00	8.00	—	—	MMBD4148WT-TP
	75	0.50	4.0	0.855	MMBD4448WTTPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MMBD4448WT-TP
	40	0.20	—	0.38	BAS40WT-TPCT-ND	—	1.10	8.80	3,000	44.00/M	BAS40WT-TP
	30	0.20	0.60	0.32	BAT54WT-TPCT-ND	—	1.10	8.80	3,000	44.00/M	BAT54WT-TP
	30	0.20	0.60	0.32	BAT54AWT-TPCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54AWT-TP
	30	0.20	0.60	0.32	BAT54CWT-TPCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54CWT-TP
	30	0.20	0.60	0.32	BAT54SWT-TPCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54SWT-TP
SOT-363 — RoHS Compliant											
20	30	0.20	0.60	1.0	BAT54TW-TPCT-ND	—	2.50	20.00	3,000	100.00/M	BAT54TW-TP
	30	0.20	0.60	1.0	BAT54ADW-TPCT-ND	—	5.00	40.00	—	—	BAT54ADW-TP
	30	0.20	0.60	1.0	BAT54CDW-TPCT-ND	—	5.00	40.00	—	—	BAT54CDW-TP
	30	0.20	0.60	1.0	BAT54SDW-TPCT-ND	—	5.00	40.00	3,000	200.00/M	BAT54SDW-TP
	30	0.20	0.60	1.0	BAT54BRW-TPCT-ND	—	5.00	40.00	3,000	200.00/M	BAT54BRW-TP
	40	—	—	1.0	BAS40DW-04-TPCT-ND	—	5.00	40.00	3,000	200.00/M	BAS40DW-04-TP
	40	—	—	1.0	BAS40DW-05-TPCT-ND	—	5.00	40.00	—	—	BAS40DW-05-TP
	40	—	—	1.0	BAS40DW-06-TPCT-ND	—	5.00	40.00	3,000	200.00/M	BAS40DW-06-TP
	40	—	—	1.0	BAS40BRW-TPCT-ND	—	6.00	48.00	—	—	BAS40BRW-TP
	40	—	—	1.0	BAS40TW-TPCT-ND	—	2.50	20.00	3,000	100.00/M	BAS40TW-TP
	40	—	1.0	0.50	SD103ATWTPMSCT-ND	—	5.00	40.00	—	—	SD103ATW-TP
	70	0.07	0.1	1.0	BAS70TW-TPCT-ND	—	5.00	40.00	—	—	BAS70TW-TP
	70	0.07	0.1	1.0	BAS70DW-04-TPCT-ND	—	6.00	48.00	3,000	240.00/M	BAS70TW-04-TP
	70	0.07	0.1	1.0	BAS70DW-05-TPCT-ND	—	6.00	48.00	3,000	240.00/M	BAS70TW-05-TP
	70	0.07	0.1	1.0	BAS70DW-06-TPCT-ND	—	6.00	48.00	—	—	BAS70TW-06-TP
	70	0.07	0.1	1.0	BAS70BRW-TPCT-ND	—	7.50	60.00	3,000	300.00/M	BAS70BRW- TP
	75	0.07	0.1	1.0	BAV99BRWMSCT-ND ***NEW!***	—	5.00	40.00	3,000	200.00/M	BAV99BRW
	75	0.25	4.0	0.855	MMBD4448DWTPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MMBD4448DW-TP
SOT-523 — RoHS Compliant											
21	40	0.20	—	0.38	BAS40T-TPCT-ND	—	1.50	12.00	—	—	BAS40T-TP
	70	0.07	0.10	0.41	BAS70T-TPCT-ND	—	1.50	12.00	3,000	60.00/M	BAS70T-TP
	30	0.20	0.60	0.32	BAT54T-TPCT-ND	—	1.50	12.00	—	—	BAT54T-TP
	30	0.20	0.60	0.32	BAT54AT-TPCT-ND	—	2.00	16.00	3,000	80.00/M	BAT54AT-TP
	30	0.20	0.60	0.32	BAT54CT-TPCT-ND	—	2.00	16.00	3,000	80.00/M	BAT54CT-TP
	30	0.20	0.60	0.32	BAT54ST-TPCT-ND	—	2.00	16.00	3,000	80.00/M	BAT54ST-TP
SOT-563 — RoHS Compliant											
22	30	0.20	—	0.40	BAT54VTPMSCT-ND	—	1.50	12.00	3,000	60.00/M	BAT54V-TP
	40	0.20	—	0.38	BAS40VTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	BAS40V-TP
	75	0.50	4.0	0.855	MMBD4448VTPMSCT-ND	—	1.50	12.00	—	—	MMBD4448V-TP
NEW! Powerlite-123 — RoHS Compliant NEW!											
23	50	1.0	30	1.1	SM4001PL-TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	SM4001PL-TP
	100	1.0	30	1.1	SM4002PL-TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	SM4002PL-TP
	200	1.0	30	1.1	SM4003PL-TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	SM4003PL-TP
	400	1.0	30	1.1	SM4004PL-TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	SM4004PL-TP
	600	1.0	30	1.1	SM4005PL-TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	SM4005PL-TP
	800	1.0	30	1.1	SM4006PL-TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	SM4006PL-TP
	1000	1.0	30	1.1	SM4007PL-TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	SM4007PL-TP
	14	1.0	30	.45	SM5817PL-TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	SM5817PL-TP
	21	1.0	30	.56	SM5818PL-TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	SM5818PL-TP
	28	1.0	30	.60	SM5819PL-TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	SM5819PL-TP
	14	2.0	50	.50	SMD22PL-TPMSCT-ND	—	2.75	22.00	2,500	110.00/M	SMD22PL-TP
	28	2.0	50	.50	SMD24PL-TPMSCT-ND	—	2.75	22.00	2,500	110.00/M	SMD24PL-TP
	42	2.0	50	.70	SMD26PL-TPMSCT-ND	—	2.75	22.00	2,500	110.00/M	SMD26PL-TP
NEW! Leaded Button — RoHS Compliant NEW!											
24	50	6.0	400	.90	MR750-BPMS-ND	1.40	12.25	105.00	—	—	MR750-BP
	100	6.0	400	.90	MR751-BPMS-ND	1.40	12.25	105.00	—	—	MR751-BP
	200	6.0	400	.90	MR752-BPMS-ND	1.40	12.25	105.00	—	—	MR752-BP
	400	6.0	400	.90	MR754-BPMS-ND	1.40	12.25	105.00	—	—	MR754-BP
	600	6.0	400	.90	MR756-BPMS-ND	1.40	12.25	105.00	—	—	MR756-BP
	800	6.0	400	.90	MR758-BPMS-ND	1.40	12.25	105.00	—	—	MR758-BP
	1000	6.0	400	.90	MR7510-BPMS-ND	1.40	12.25	105.00	—	—	MR7510-BP

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Glass Passivated

Fig. 20 — SOT-363

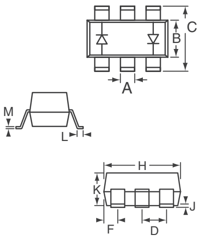

Dimensions – mm		
Dim.	Min.	Max.
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
F	0.30	0.40
H	1.80	2.20
J	—	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.25

Fig. 21 — SOT-523

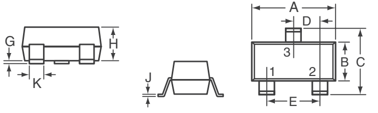

Dimensions – mm		
Dim.	Min.	Max.
A	1.50	1.70
B	0.75	0.85
C	1.45	1.75
D	(0.50 Nominal)	
E	0.90	1.10
G	—	0.10
H	0.70	0.80
J	0.10	0.20
K	0.25	0.35

Pinning Number			
Mfg. Part No.	1	2	3
BAS40T	A	—	K
BAS70T	A	—	K
BAT54T	A	—	K
BAT54AT	K	A	K
BAT54CT	A	K	A
BAT54ST	A	K	A/K

Fig. 22 — SOT-563

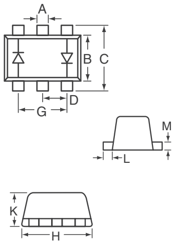

Dimensions – mm		
Dim.	Min.	Max.
A	0.15	0.30
B	1.10	1.25
C	1.55	1.70
D	(0.50 Nominal)	
G	0.90	1.10
H	1.50	1.70
K	0.56	0.60
L	0.10	0.30
M	0.10	0.18

Fig. 23 — Powerlite-123 *NEW!*

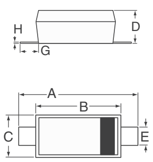

Dimensions – mm		
Dim.	Min.	Max.
A	3.55	3.85
B	2.55	2.85
C	1.40	1.80
D	0.95	1.35
E	0.50	1.00
G	0.25	—
H	—	0.20

Fig. 24 — Leaded Button *NEW!*

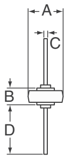

Dimensions – mm		
Dim.	Min.	Max.
A	8.43	8.69
B	5.94	6.25
C	1.27	1.35
D	25.15	25.65

Mosfets

RoHS COMPLIANT

SOT-363

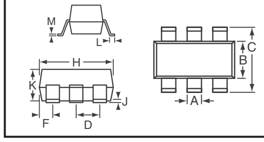

Dimensions – mm		
Dim.	Min.	Max.
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
F	0.30	0.40

Dimensions – mm		
Dim.	Min.	Max.
H	1.80	2.20
J	—	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.25

SOT-23 *NEW!*

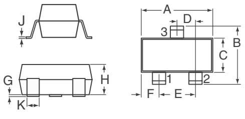

Dimensions – mm		
Dim.	Min.	Max.
A	2.80	3.04
B	2.10	2.64
C	1.20	1.40
D	0.89	1.03
E	1.78	2.05

Dimensions – mm		
Dim.	Min.	Max.
F	0.45	0.60
G	.013	.100
H	0.89	1.12
J	.085	.180
K	0.37	0.51

Pkg.	V_{DSS}	I_D	I_{DM}	$R_{DS(ON)}$	Digi-Key Part No.	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	MCC Part No.
SOT-363	70V	1.0A	—	7.5Ω	2N7002DW-TPCT-ND†	2.00	16.00	2N7002DW-TPTR-ND	80.00/M	2N7002DW-TP
SOT-23	20V	2.8A	10A	.055Ω	SI2301-TPMSCT-ND‡ ***NEW!***	5.00	40.00	SI2301-TPMSTR-ND ***NEW!***	200.00/M	SI2301-TP
SOT-23	20V	3.0A	10A	.055Ω	SI2302-TPMSCT-ND† ***NEW!***	5.00	40.00	SI2302-TPMSTR-ND ***NEW!***	200.00/M	SI2302-TP

† N-Channel ‡ P- Channel

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

·M·C·C·
Micro Commercial Components

Switching Diodes

Digi-Reel® RoHS COMPLIANT

Fig. 1 — MINIMELF, SMT

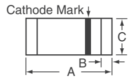

Dimensions – mm		
Dim.	Min.	Max.
A	3.40	3.60
B	0.20	0.40
C	1.40	1.50

Fig. 2 — DO-35

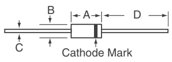

Dimensions – mm		
Dim.	Min.	Max.
A	—	4.20
B	—	2.00
C	—	0.52
D	25.40	—

Fig. 3 — SOD-123

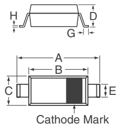

Dimensions – mm		
Dim.	Min.	Max.
A	3.55	3.85
B	2.55	2.85
C	1.40	1.80
D	—	1.35
E	0.30	0.78
G	0.15	—
H	—	0.25

Fig. 4 — SOD-323

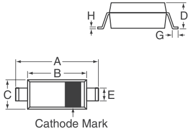

Dimensions – mm		
Dim.	Min.	Max.
A	2.30	2.70
B	1.60	1.80
C	1.15	1.35
D	0.80	1.15
E	0.25	0.40
G	0.10	0.45
H	0.10	0.25

Fig.	V_R (V)	V_{RM} (V)	I_O (mA)	I_{FSM} (A)	V_F (mV)	Pinning 1	Pinning 2	Pinning 3	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel† Qty.	Tape and Reel† Pricing	MCC Part No.
SOT-23-2														
5	75	100	300	1.0	1250	—	—	—	BAS16TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS16-TP
	100	120	200	2.5	1250	K	A	A	BAS19TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS19-TP
	150	200	200	2.5	1250	K	A	A	BAS20TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS20-TP
	200	250	200	2.5	1250	K	A	A	BAS21TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS21-TP
	200	250	200	—	1100	A	K	K	BAS21ATPMSCT-ND	1.25	10.00	—	—	BAS21A-TP
	200	250	200	—	1100	K/A	A	K	BAS21STPMSCT-ND	1.25	10.00	—	—	BAS21S-TP
	75	—	150	1.0	855	K	A	A	BAV70TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAV70-TP
	75	—	150	1.0	855	K/A	A	K	BAV99TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAV99-TP
	75	—	150	1.0	855	A	K	K	BAW56TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAW56-TP
	100	—	150	1.0	820	K/A	A	C	MMBD7000TPMSCT-ND	1.00	8.00	3,000	40.00/M	MMBD7000-TP
	—	—	200	1.0	885	A	—	K	MMBD1501TPMSCT-ND	2.00	16.00	3,000	80.00/M	MMBD1501-TP
	—	—	200	1.0	885	A	K	K/A	MMBD1503TPMSCT-ND	2.00	16.00	3,000	80.00/M	MMBD1503-TP
	—	—	200	1.0	885	A	A	K	MMBD1504TPMSCT-ND	2.00	16.00	—	—	MMBD1504-TP
	—	—	200	1.0	885	A	K	A	MMBD1505TPMSCT-ND	2.00	16.00	3,000	80.00/M	MMBD1505-TP
	75	100	200	1.0	885	A	—	K	MMBD4148TPMSCT-ND	1.00	8.00	3,000	40.00/M	MMBD4148-TP
	75	100	150	1.0	885	K	—	A	MMBD914TPMSCT-ND	1.00	8.00	3,000	40.00/M	MMBD914-TP
SOT-323														
6	75	75	150	2.0	100	—	—	—	BAS16WTTPMSCT-ND	1.00	8.00	—	—	BAS16WT-TP
	100	—	200	2.5	1250	K	A	—	BAS19WTTPMSCT-ND	1.00	8.00	—	—	BAS19WT-TP
	150	—	200	2.5	1250	K	A	—	BAS20WTTPMSCT-ND	1.00	8.00	—	—	BAS20WT-TP
	200	—	200	2.5	1000	K	A	—	BAS21WTTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS21WT-TP
	75	—	150	1.0	855	K	A	A	BAV70WTTPMSCT-ND	1.00	8.00	—	—	BAV70WT-TP
	75	—	150	1.0	855	K/A	A	K	BAV99WTTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAV99WT-TP
	75	—	150	1.0	855	A	K	K	BAW56WTTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAW56WT-TP

Fig.	V_R (V)	V_{RM} (V)	I_O (mA)	I_{FSM} (A)	V_F (mV)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel† Qty.	Tape and Reel† Pricing	MCC Part No.
MINIMELF – SMT											
1	50	75	200	4.0	570	DL4150TPMSCT-ND	.60	4.80	2,500	24.00/M	DL4150-TP
	75	100	150	0.500	100	DL4148-TPMSCT-ND	.75	6.38	2,500	49.00/M	DL4148-TP
	75	100	150	0.500	100	DL4448TPMSCT-ND	.50	4.00	2,500	20.00/M	DL4448-TP
DO-35											
2	75	100	150	2.0	1000	1N4148-TPMSCT-ND	.53	4.20	10,000	14.00/M	1N4148-TP
	75	100	150	0.500	100	1N4448TPMSCT-ND	.33	2.60	—	—	1N4448-TP
	100	100	200	1.0	100	1N914-TPCT-ND	.30	2.40	10,000	12.00/M	1N914-TP
	100	100	200	1.0	720	1N914B-TPCT-ND	.30	2.40	10,000	12.00/M	1N914B-TP
SOD-123											
3	75	100	150	0.350	100	1N4148WTPMSCT-ND	1.00	8.00	3,000	40.00/M	1N4148W-TP
	75	100	150	0.500	100	1N4448WTPMSCT-ND	1.50	12.00	3,000	60.00/M	1N4448W-TP
	75	75	200	2.0	100	BAS16WTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS16W-TP
SOD-323											
4	100	75	300	2.0	100	1N4148WXTPMSCT-ND	1.00	8.00	3,000	40.00/M	1N4148WX-TP
	75	100	250	2.0	720	1N4448WXTPMSCT-ND	1.50	12.00	3,000	60.00/M	1N4448WX-TP
	75	85	200	2.0	100	BAS16WXTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS16WX-TP
SOT-563											
7	75	100	200	1.0	1250	BAS16VTPMSCT-ND	2.00	16.00	—	—	BAS16V-TP
SOD-523											
8	75	100	150	1.0	715	1N4148XTPMSCT-ND	1.75	14.00	3,000	70.00/M	IN4148X-TP
	75	100	250	2.0	720	1N4448XTPMSCT-ND	2.00	16.00	3,000	80.00/M	IN4448X-TP
	75	75	—	0.5	715	BAS16X-TPCT-ND	.85	6.80	3,000	34.00/M	BAS16X-TP
SOT-363											
9	75	100	150	1.0	100	BAS16TWMSCT-ND ***NEW!***	3.00	24.00	3,000	120.00/M	BAS16TW
	75	100	150	1.0	715	BAV70DW-TPCT-ND	2.00	16.00	3,000	80.00/M	BAV70DW-TP
	75	100	150	1.0	715	BAW56DW-TPCT-ND	2.00	16.00	3,000	80.00/M	BAW56DW-TP
	75	75	150	—	715	MMBD4148TW-TPCT-ND	2.00	16.00	3,000	80.00/M	MMBD4148TW-TP
	75	—	150	—	1250	BAV99DW-TPCT-ND	2.75	22.00	3,000	110.00/M	BAV99DW-TP
	80	100	250	2.0	1250	MMBD4448HTW-TPCT-ND	3.50	28.00	3,000	140.00/M	MMBD4448HTW-TP
	80	100	250	2.0	1250	MMBD4448HCDW-TPCT-ND	3.50	28.00	—	—	MMBD4448HCDW-TP
	80	100	250	2.0	1250	MMBD4448HCQWTPMSCT-ND	3.75	30.00	—	—	MMBD4448HCQW-TP
	80	100	250	2.0	1250	MMBD4448HADW-TPCT-ND	3.50	28.00	—	—	MMBD4448HADW-TP
	80	100	250	2.0	1250	MMBD4448HAQW-TPCT-ND	3.50	28.00	—	—	MMBD4448HAQW-TP
	80	100	250	2.0	1250	MMBD4448HSDW-TPCT-ND	3.50	28.00	3,000	140.00/M	MMBD4448HSDW-TP
SOT-523											
10	—	85	—	—	715	BAS16T-TPCT-ND	1.50	12.00	—	—	BAS16T-TP
	—	85	—	—	715	BAW56T-TPCT-ND	1.50	12.00	3,000	60.00/M	BAW56T-TP
	—	85	—	—	715	BAV99T-TPCT-ND	1.50	12.00	3,000	60.00/M	BAV99T-TP
	—	250	200	—	100	BAS21T-TPCT-ND	1.50	12.00	—	—	BAS21T-TP

† For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 5 — SOT-23-2

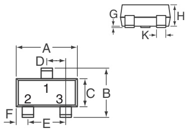

Dimensions – mm		
Dim.	Min.	Max.
A	2.80	3.04
B	2.10	2.64
C	1.20	1.40
D	0.89	1.03
E	1.78	2.05
F	0.45	0.60
G	0.013	0.100
H	0.89	1.12
K	0.37	0.51

Fig. 6 — SOT-323

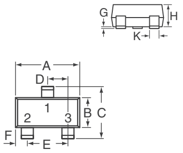

Dimensions – mm		
Dim.	Min.	Max.
A	1.80	2.20
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
E	1.20	1.40
F	0.30	0.40
G	—	0.100
H	0.90	1.00
K	0.30	0.40

Fig. 7 — SOT-563

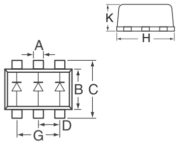

Dimensions – mm		
Dim.	Min.	Max.
A	0.15	0.30
B	1.10	1.25
C	1.55	1.70
D	(0.50 Nominal)	
G	0.90	1.10
H	1.50	1.70
K	0.56	0.60

Fig. 8 — SOD-523

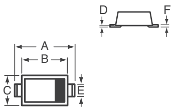

Dimensions – mm		
Dim.	Min.	Max.
A	1.50	1.70
B	1.10	1.30
C	0.75	0.85
D	0.01	0.07
E	0.25	0.35
F	0.08	0.15

Fig. 9 — SOT-363

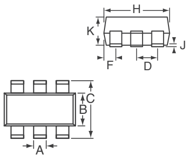

Dimensions – mm		
Dim.	Min.	Max.
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
F	0.30	0.40
H	1.80	2.20
J	—	0.10
K	0.90	1.00

Fig. 10 — SOT-523

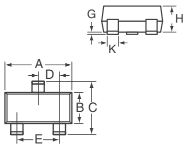

Dimensions – mm		
Dim.	Min.	Max.
A	1.50	1.70
B	0.75	0.85
C	1.45	1.75
D	(0.50 Nominal)	
E	0.90	1.10
G	—	0.10
H	0.70	0.80
K	0.25	0.35

Microsemi®

Switching Diode Array

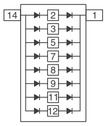

RoHS COMPLIANT

Features: • 8 Isolated lines • Standard SOIC 14 pin Surface Mount Package • UL 94V-0 Flammability Classification

Vbr @ Ibr = 100µA (V) Minimum	Ir 25°C (µA) Maximum	Ir 25°C (V) @ Vr	CAP @ 0 V (pF) Maximum	trr (nS) Maximum	Vf @ If = 100mA (V) Minimum	Vf @ If = 100mA (V) Maximum	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100
90	0.200	20	1.5	5.0	1	1.20	MMAD1103E3-ND	7.56	68.04	567.00

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Single Phase Bridge Rectifiers

Fig.	DC Reverse Voltage (V)	I_F @ 25°C (A)	I_{FSM} @ 25°C (A)	V_F @ 25°C (V)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel† Pricing 3,000	MCC Part No.
MBS-1 — 0.5 Amp Single Phase Glass Passivated Bridge Rectifier — RoHS Compliant										
1	100	0.5	30	1.0	MB1S-TPMSCT-ND	—	.40	.32	160.00/M	MB1S-TP
	200				MB2S-TPMSCT-ND	—	.40	.32	160.00/M	MB2S-TP
	400				MB4S-TPMSCT-ND	—	.40	.32	160.00/M	MB4S-TP
	600				MB6S-TPMSCT-ND	—	.40	.32	160.00/M	MB6S-TP
DB-1 — 1 Amp Single Phase Glass Passivated Bridge Rectifier — RoHS Compliant										
2	50	1.0	50	1.1	DB101-BPMS-ND	.52	.50	.39	—	DB101-BP
	100				DB102-BPMS-ND	.52	.50	.39	—	DB102-BP
	200				DB103-BPMS-ND	.52	.50	.39	—	DB103-BP
	400				DB104-BPMS-ND	.60	.58	.45	—	DB104-BP
	600				DB105-BPMS-ND	.64	.62	.48	—	DB105-BP
	800	1.0	50	1.1	DB106-BPMS-ND	.72	.69	.54	—	DB106-BP
	1000				DB107-BPMS-ND	.80	.77	.60	—	DB107-BP
RB-15 — 1.5 Amp Single Phase Bridge Rectifier — RoHS Compliant										
3	50	1.5	50	1.0	RB151-BPMS-ND	.52	.46	.39	—	RB151-BP
	100				RB152-BPMS-ND	.52	.46	.39	—	RB152-BP
	200				RB153-BPMS-ND	.56	.49	.42	—	RB153-BP
	400				RB154-BPMS-ND	.60	.53	.45	—	RB154-BP
	600				RB155-BPMS-ND	.60	.53	.45	—	RB155-BP
	800	1.5	50	1.0	RB156-BPMS-ND	.60	.53	.45	—	RB156-BP
	1000				RB157-BPMS-ND	.60	.53	.45	—	RB157-BP
NEW! WOM — 1.5 Amp Single Phase Bridge Rectifier — RoHS Compliant NEW!										
3	50	1.5	50	1.0	W005M-BPMS-ND	.34	.30	.26	—	W005M-BP
	100				W01M-BPMS-ND	.34	.30	.26	—	W01M-BP
	200				W02M-BPMS-ND	.34	.30	.26	—	W02M-BP
	400				W04M-BPMS-ND	.34	.30	.26	—	W04M-BP
	600				W06M-BPMS-ND	.34	.30	.26	—	W06M-BP
	800	1.5	50	1.0	W08M-BPMS-ND	.34	.30	.26	—	W08M-BP
	1000				W10M-BPMS-ND	.34	.30	.26	—	W10M-BP
BR-8D — 2 Amp Single Phase Bridge Rectifier — RoHS Compliant										
4	50	2.0	50	1.1	BR805DL-BPMS-ND	1.60	1.40	1.20	—	BR805DL-BP
	100				BR81DL-BPMS-ND	1.60	1.40	1.20	—	BR81DL-BP
	200				BR82DL-BPMS-ND	1.60	1.40	1.20	—	BR82DL-BP
	400				BR84DL-BPMS-ND	1.60	1.40	1.20	—	BR84DL-BP
	600				BR86DL-BPMS-ND	1.60	1.40	1.20	—	BR86DL-BP
	800	2.0	50	1.1	BR88DL-BPMS-ND	1.60	1.40	1.20	—	BR88DL-BP
	1000				BR810DL-BPMS-ND	1.60	1.40	1.20	—	BR810DL-BP
RS-4L — 4 Amp Single Phase Bridge Rectifier — RoHS Compliant										
5	50	4.0	200	1.0	RS401L-BPMS-ND	1.56	1.37	1.17	—	RS401L-BP
	100				RS402L-BPMS-ND	1.56	1.37	1.17	—	RS402L-BP
	200				RS403L-BPMS-ND	1.56	1.37	1.17	—	RS403L-BP
	400				RS404L-BPMS-ND	1.60	1.40	1.20	—	RS404L-BP
	600				RS405L-BPMS-ND	1.76	1.54	1.32	—	RS405L-BP
	800	4.0	200	1.0	RS406L-BPMS-ND	1.92	1.68	1.44	—	RS406L-BP
	1000				RS407L-BPMS-ND	2.00	1.75	1.50	—	RS407L-BP
GBU — 4 Amp Single Phase Glass Passivated Bridge Rectifier — RoHS Compliant										
6	50	4.0	150	1.0	GBU4A-BPMS-ND	1.20	1.05	.90	—	GBU4A-BP
	100				GBU4B-BPMS-ND	1.20	1.05	.90	—	GBU4B-BP
	200				GBU4D-BPMS-ND	1.20	1.05	.90	—	GBU4D-BP
	400				GBU4G-BPMS-ND	1.20	1.05	.90	—	GBU4G-BP
	600				GBU4J-BPMS-ND	1.20	1.05	.90	—	GBU4J-BP
	800	4.0	150	1.0	GBU4K-BPMS-ND	1.20	1.05	.90	—	GBU4K-BP
	1000				GBU4M-BPMS-ND	1.20	1.05	.90	—	GBU4M-BP
GBU — 6 Amp Single Phase Glass Passivated Bridge Rectifier — RoHS Compliant										
6	50	6.0	175	1.0	GBU6A-BPMS-ND	1.40	1.23	1.05	—	GBU6A-BP
	100				GBU6B-BPMS-ND	1.40	1.23	1.05	—	GBU6B-BP
	200				GBU6D-BPMS-ND	1.40	1.23	1.05	—	GBU6D-BP
	400				GBU6G-BPMS-ND	1.40	1.23	1.05	—	GBU6G-BP
	600				GBU6J-BPMS-ND	1.40	1.23	1.05	—	GBU6J-BP
	800	6.0	175	1.0	GBU6K-BPMS-ND	1.40	1.23	1.05	—	GBU6K-BP
	1000				GBU6M-BPMS-ND	1.40	1.23	1.05	—	GBU6M-BP
GBU — 8 Amp Single Phase Glass Passivated Bridge Rectifier — RoHS Compliant										
6	50	8.0	200	1.0	GBU8A-BPMS-ND	1.60	1.40	1.20	—	GBU8A-BP
	100				GBU8B-BPMS-ND	1.60	1.40	1.20	—	GBU8B-BP
	200				GBU8D-BPMS-ND	1.60	1.40	1.20	—	GBU8D-BP
	400				GBU8G-BPMS-ND	1.60	1.40	1.20	—	GBU8G-BP
	600				GBU8J-BPMS-ND	1.60	1.40	1.20	—	GBU8J-BP
	800	8.0	200	1.0	GBU8K-BPMS-ND	1.60	1.40	1.20	—	GBU8K-BP
	1000				GBU8M-BPMS-ND	1.60	1.40	1.20	—	GBU8M-BP
PB-6 — 6 Amp Single Phase Bridge Rectifier — RoHS Compliant										
7	50	6.0	125	1.1	PB605-BPMS-ND	1.68	1.47	1.26	—	PB605-BP
	100				PB61-BPMS-ND	1.68	1.47	1.26	—	PB61-BP
	200				PB62-BPMS-ND	1.68	1.47	1.26	—	PB62-BP
	400				PB64-BPMS-ND	1.76	1.54	1.32	—	PB64-BP
	600				PB66-BPMS-ND	1.84	1.61	1.38	—	PB66-BP
	800	6.0	125	1.1	PB68-BPMS-ND	1.92	1.68	1.44	—	PB68-BP
	1000				PB610-BPMS-ND	2.20	1.93	1.65	—	PB610-BP
BR-6 — 8 Amp Single Phase Bridge Rectifier										
7	800	8.0	125	1.0	MB88MS-ND	2.20	1.93	1.65	—	MB88

† For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1 — MBS-1, 0.5 Amp

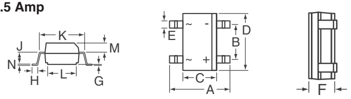

Dim.	Min.	Max.
A	6.40	6.90
B	2.41	2.67
C	3.65	4.10
D	4.55	4.95
E	0.43	0.74
F	2.30	2.70
G	0.10	0.20

Dimensions – mm

Dim.	Min.	Max.
H	0.48	0.96
J	1.47	1.57
K	4.95	5.21
L	2.80	2.90
M	0.99	1.24
N	0.15	0.41

Fig. 2 — DB-1, 1 Amp

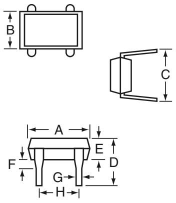

Dimensions – mm

Dim.	Min.	Max.
A	9.02	9.27
B	6.22	6.48
C	7.62	8.89
D	3.94	4.19
E	2.92	3.43
F	—	1.52
G	—	0.51
H	4.95	5.21

Fig. 3 — RB-15, WOM 1.5 Amp

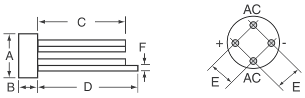

Dimensions – mm

	RB-15		WOM	
Dim.	Min.	Max.	Min.	Max.
A	—	9.10	—	9.10
B	—	4.00	—	5.70
C	25.40	—	25.40	—
D	27.90	—	27.90	—
E	4.60	5.60	4.60	5.60
F	0.76	0.81	0.76	0.76

Fig. 4 — BR-8D 2 Amp

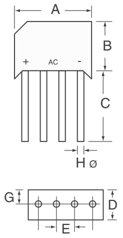

Dimensions – mm

Dim.	Min.	Max.
A	—	18.00
B	13.00	15.00
C	19.00	—
D	6.00	7.00
E	3.60	4.10
G	3.20 Typical	
H	0.76	0.81

Fig. 5 — RS-4L, 4 Amp

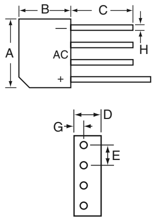

Dimensions – mm

Dim.	Min.	Max.
A	18.50	19.50
B	15.20	16.30
C	19.00	—
D	6.00	6.50
E	4.60	5.60
G	—	2.10
H	1.20	1.30

Fig. 6 — GBU 4, 6, and 8 Amp

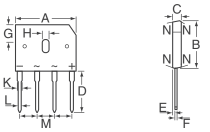

Dimensions – mm

Dim.	Min.	Max.
A	21.80	22.30
B	18.30	18.80
C	3.30	3.56
D	17.50	18.00
E	0.76	1.00
F	0.46	0.56

Dimensions – mm

Dim.	Min.	Max.
G	7.40	7.90
H	3.50	4.10
K	1.95	2.35
L	1.02	1.27
M	4.83	5.33
N	7.0 Typical	

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	DC Reverse Voltage (V)	I_F @ 25°C (A)	I_{FSM} @ 25°C (A)	V_F @ 25°C (V)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel† Pricing 3,000	MCC Part No.
BR-6 — 8 Amp Single Phase Bridge Rectifier — RoHS Compliant										
7	50	8.0	125	1.0	MB805-BPMS-ND	2.20	1.93	1.65	—	MB805-BP
	100				MB81-BPMS-ND	2.20	1.93	1.65	—	MB81-BP
	200				MB82-BPMS-ND	2.20	1.93	1.65	—	MB82-BP
	400				MB84-BPMS-ND	2.20	1.93	1.65	—	MB84-BP
	600				MB86-BPMS-ND	2.20	1.93	1.65	—	MB86-BP
	800	8.0	125	1.0	MB88-BPMS-ND	2.20	1.93	1.65	—	MB88-BP
	1000				MB810-BPMS-ND	2.20	1.93	1.65	—	MB810-BP
BR-6 — 10 Amp Single Phase Bridge Rectifier — RoHS Compliant										
7	50	10	150	1.1	MB1005-BPMS-ND	2.20	1.93	1.65	—	MB1005-BP
	100				MB101-BPMS-ND	2.20	1.93	1.65	—	MB101-BP
	200				MB102-BPMS-ND	2.20	1.93	1.65	—	MB102-BP
	400				MB104-BPMS-ND	2.40	2.10	1.80	—	MB104-BP
	600				MB106-BPMS-ND	2.80	2.45	2.10	—	MB106-BP
	800	10	150	1.1	MB108-BPMS-ND	2.80	2.45	2.10	—	MB108-BP
	1000				MB1010-BPMS-ND	3.00	2.63	2.25	—	MB1010-BP
GBJ — 10 Amp Glass Passivated Bridge Rectifier — RoHS Compliant										
8	50	10	170	1.05	GBJ10005-BPMS-ND	2.24	1.96	1.68	—	GBJ10005-BP
	100				GBJ1001-BPMS-ND	2.24	1.96	1.68	—	GBJ1001-BP
	200				GBJ1002-BPMS-ND	2.24	1.96	1.68	—	GBJ1002-BP
	400				GBJ1004-BPMS-ND	2.24	1.96	1.68	—	GBJ1004-BP
	600				GBJ1006-BPMS-ND	2.24	1.96	1.68	—	GBJ1006-BP
	800	10	170	1.05	GBJ1008-BPMS-ND	2.24	1.96	1.68	—	GBJ1008-BP
	1000				GBJ1010-BPMS-ND	2.24	1.96	1.68	—	GBJ1010-BP
GBJ — 15 Amp Glass Passivated Bridge Rectifier — RoHS Compliant										
8	50	15	240	1.05	GBJ15005-BPMS-ND	2.24	1.96	1.68	—	GBJ15005-BP
	100				GBJ1501-BPMS-ND	2.24	1.96	1.68	—	GBJ1501-BP
	200				GBJ1502-BPMS-ND	2.24	1.96	1.68	—	GBJ1502-BP
	400				GBJ1504-BPMS-ND	2.24	1.96	1.68	—	GBJ1504-BP
	600				GBJ1506-BPMS-ND	2.24	1.96	1.68	—	GBJ1506-BP
	800	15	240	1.05	GBJ1508-BPMS-ND	2.24	1.96	1.68	—	GBJ1508-BP
	1000				GBJ1510-BPMS-ND	2.32	2.03	1.74	—	GBJ1510-BP
GBJ — 25 Amp Glass Passivated Bridge Rectifier — RoHS Compliant										
8	50	25	350	1.05	GBJ25005-BPMS-ND	2.32	2.03	1.74	—	GBJ25005-BP
	100				GBJ2501-BPMS-ND	2.32	2.03	1.74	—	GBJ2501-BP
	200				GBJ2502-BPMS-ND	2.32	2.03	1.74	—	GBJ2502-BP
	400				GBJ2504-BPMS-ND	2.32	2.03	1.74	—	GBJ2504-BP
	600				GBJ2506-BPMS-ND	2.32	2.03	1.74	—	GBJ2506-BP
	800	25	350	1.05	GBJ2508-BPMS-ND	2.32	2.03	1.74	—	GBJ2508-BP
	1000				GBJ2510-BPMS-ND	2.32	2.03	1.74	—	GBJ2510-BP
MB-35W — 15 Amp Single Phase Bridge Rectifier										
9	800	15	300	1.1	MB158WMS-ND	4.60	4.03	3.45	—	MB158W
MB-35W — 15 Amp Single Phase Bridge Rectifier — RoHS Compliant										
9	100	15	300	1.1	MB151W-BPMS-ND	4.40	3.85	3.30	—	MB151W-BP
	200				MB152W-BPMS-ND	4.40	3.85	3.30	—	MB152W-BP
	400				MB154W-BPMS-ND	4.40	3.85	3.30	—	MB154W-BP
	600				MB156W-BPMS-ND	4.60	4.03	3.45	—	MB156W-BP
MB-35W — 25 Amp Single Phase Bridge Rectifier										
9	50	25	300	1.1	MB2505WMS-ND	4.40	3.85	3.30	—	MB2505W
	800				MB258WMS-ND	4.80	4.20	3.60	—	MB258W
	1000				MB2510WMS-ND	5.20	4.55	3.90	—	MB2510W
MB-35W — 25 Amp Single Phase Bridge Rectifier — RoHS Compliant										
9	50	25	300	1.1	MB2505W-BPMS-ND	4.40	3.85	3.30	—	MB2505W-BP
	100				MB251W-BPMS-ND	4.40	3.85	3.30	—	MB251W-BP
	200				MB252W-BPMS-ND	4.60	4.03	3.45	—	MB252W-BP
	400				MB254W-BPMS-ND	4.60	4.03	3.45	—	MB254W-BP
	600				MB256W-BPMS-ND	4.80	4.20	3.60	—	MB256W-BP
MB-35W — 35 Amp Single Phase Bridge Rectifier										
9	50	35	300	1.1	MB3505WMS-ND	4.80	4.20	3.60	—	MB3505W
MB-35W — 35 Amp Single Phase Bridge Rectifier — RoHS Compliant										
9	100	35	300	1.1	MB351W-BPMS-ND	4.80	4.20	3.60	—	MB351W-BP
	200				MB352W-BPMS-ND	4.80	4.20	3.60	—	MB352W-BP
	400				MB354W-BPMS-ND	5.00	4.38	3.75	—	MB354W-BP
	600				MB356W-BPMS-ND	5.00	4.38	3.75	—	MB356W-BP
	800				MB358W-BPMS-ND	5.20	4.55	3.90	—	MB358W-BP
	1000				MB3510W-BPMS-ND	5.60	4.90	4.20	—	MB3510W-BP
MP-50W — 50 Amp Single Phase Bridge Rectifier										
10	50	50	400	1.2	MP5005WMS-ND	6.40	5.60	4.80	—	MP5005W
	100				MP501WMS-ND	6.40	5.60	4.80	—	MP501W
MP-50W — 50 Amp Single Phase Bridge Rectifier — RoHS Compliant										
10	100	50	400	1.2	MP501W-BPMS-ND	6.40	5.60	4.80	—	MP501W-BP
	200				MP502W-BPMS-ND	6.40	5.60	4.80	—	MP502W-BP
	400				MP504W-BPMS-ND	6.40	5.60	4.80	—	MP504W-BP
	600				MP506W-BPMS-ND	6.80	5.95	5.10	—	MP506W-BP
	800				MP508W-BPMS-ND	6.80	5.95	5.10	—	MP508W-BP
	1000				MP5010W-BPMS-ND	6.80	5.95	5.10	—	MP5010W-BP
MP — 50 Amp Single Phase Bridge Rectifier — RoHS Compliant										
11	600	50	400	1.2	MP506-BPMS-ND	4.96	4.34	3.72	—	MP506-BP

† For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 7 — BR-6, 8 Amp, 10 Amp and PB-6, 6 Amp

Dimensions – mm		
Dim.	Min.	Max.
A	14.69	15.71
B	5.84	6.86
C	19.10	—
D	10.30	11.30
E	0.97	1.07
G	3.70	—

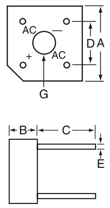

Fig. 8 — GBJ 10, 15, and 25 Amp

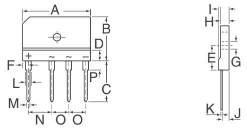

Dimensions – mm		
Dim.	Min.	Max.
A	29.70	30.30
B	19.70	20.30
C	17.00	18.00
D	4.70	4.90
E	10.80	11.20
F	2.30	2.70
G	3.10	3.40
H	3.40	3.80

Dimensions – mm		
Dim.	Min.	Max.
I	4.40	4.80
J	2.50	2.90
K	0.60	0.80
L	2.00	2.40
M	0.90	1.10
N	9.80	10.20
O	7.30	7.70
P	3.80	4.20

Fig. 9 — MB-35W, 15 Amp, 25 Amp, 35 Amp

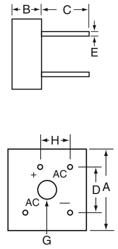

Dimensions – mm		
Dim.	Min.	Max.
A	28.33	28.83
B	10.85	11.35
C	19.65	—
D	17.10	19.10
E	0.96	1.07
G	4.90	—
H	10.90	11.90

Fig. 10 — MP-50W, 50 Amp

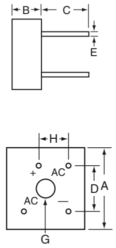

Dimensions – mm		
Dim.	Min.	Max.
A	28.40	28.70
B	10.97	11.23
C	19.53	—
D	17.10	19.10
E	0.97	1.07
G	4.90	—
H	10.90	11.90

Fig. 11 — MP 50 Amp

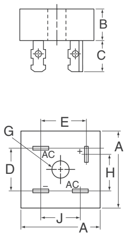

Dimensions – mm		
Dim.	Min.	Max.
A	—	29.00
B	—	11.50
C	10.80	12.20
D	17.54	18.60
E	16.20	17.20
G	4.77	—
H	16.10	17.10
J	13.80	14.80

Zener Diodes

Dimensions in mm

Fig. 1 — DO-15 and DO-41G

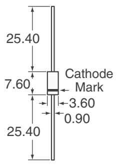

Fig. 2 — DO-35

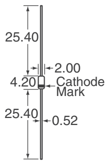

Fig. 3 — DO-214AA, SMB

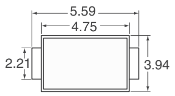

Fig. 4 — DO-214AC, SMA

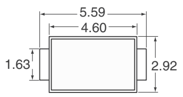

Fig. 5 — SOD-123

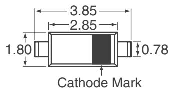

Fig. 6 — SOD-323

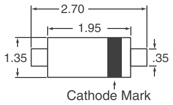

Fig. 7 — SOT-23 *NEW!*

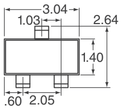

DO-15
Value (Code) Chart

5.1 (38)	9.1 (46)	17 (54)	28 (62)
5.6 (39)	10 (47)	18 (55)	30 (63)
6.0 (40)	11 (48)	19 (56)	33 (64)
6.2 (41)	12 (49)	20 (57)	36 (65)
6.8 (42)	13 (50)	22 (58)	39 (66)
7.5 (43)	14 (51)	24 (59)	43 (67)
8.2 (44)	15 (52)	25 (60)	47 (68)
8.7 (45)	16 (53)	27 (61)	51 (69)

DO-41G
Value (Code) Chart

3.3 (28)	7.5 (37)	18 (46)	43 (55)
3.6 (29)	8.2 (38)	20 (47)	47 (56)
3.9 (30)	9.1 (39)	22 (48)	51 (57)
4.3 (31)	10 (40)	24 (49)	56 (58)
4.7 (32)	11 (41)	27 (50)	62 (59)
5.1 (33)	12 (42)	30 (51)	68 (60)
5.6 (34)	13 (43)	33 (52)	75 (61)
6.2 (35)	15 (44)	36 (53)	
6.8 (36)	16 (45)	39 (54)	

DO-35
Value (Code) Chart

2.4 (21)	5.1 (31)	11 (41)	22 (51)	47 (61)	100 (71)
2.5 (22)	5.6 (32)	12 (42)	24 (52)	51 (62)	110 (72)
2.7 (23)	6.0 (33)	13 (43)	25 (53)	56 (63)	120 (73)
2.8 (24)	6.2 (34)	14 (44)	27 (54)	60 (64)	130 (74)
3.0 (25)	6.8 (35)	15 (45)	28 (55)	62 (65)	140 (75)
3.3 (26)	7.5 (36)	16 (46)	30 (56)	68 (66)	150 (76)
3.6 (27)	8.2 (37)	17 (47)	33 (57)	75 (67)	
3.9 (28)	8.7 (38)	18 (48)	36 (58)	82 (68)	
4.3 (29)	9.1 (39)	19 (49)	39 (59)	87 (69)	
4.7 (30)	10 (40)	20 (50)	43 (60)	91 (70)	

DO-214AA (3SMBJ59)
Value (Code) Chart

11 (26)	18 (31)	30 (36)
12 (27)	20 (32)	33 (37)
13 (28)	22 (33)	36 (38)
15 (29)	24 (34)	39 (39)
16 (30)	27 (35)	

DO-214AA (SMBJ53)
Value (Code) Chart

5.1 (38)	8.2 (44)	13 (50)	19 (56)	28 (62)	47 (68)
5.6 (39)	8.7 (45)	14 (51)	20 (57)	30 (63)	51 (69)
6 (40)	9.1 (46)	15 (52)	22 (58)	33 (64)	
6.2 (41)	10 (47)	16 (53)	24 (59)	36 (65)	
6.8 (42)	11 (48)	17 (54)	25 (60)	39 (66)	
7.5 (43)	12 (49)	18 (55)	27 (61)	43 (67)	

DO-214AC (SMAJ47)
Value (Code) Chart

6.2 (35)	12 (42)	24 (49)
6.8 (36)	13 (43)	27 (50)
7.5 (37)	15 (44)	30 (51)
8.2 (38)	16 (45)	33 (52)
9.1 (39)	18 (46)	36 (53)
10 (40)	20 (47)	39 (54)
11 (41)	22 (48)	75 (61)

DO-214AC (SMAJ59)
Value (Code) Chart

5.1 (18)	10 (25)	20 (32)	39 (39)
5.6 (19)	11 (26)	22 (33)	43 (40)
6.2 (20)	12 (27)	24 (34)	47 (41)
6.8 (21)	13 (28)	27 (35)	51 (42)
7.5 (22)	15 (29)	30 (36)	
8.2 (23)	16 (30)	33 (37)	
9.1 (24)	18 (31)	36 (38)	

NEW!* DO-214AC (3SMAJ59) *NEW!
Value (Code) Chart

5.1 (18)	9.1 (24)	16 (30)	30 (36)	51 (42)
5.6 (19)	10 (25)	18 (31)	33 (37)	
6.2 (20)	11 (26)	20 (32)	36 (38)	
6.8 (21)	12 (27)	22 (33)	39 (39)	
7.5 (22)	13 (28)	24 (34)	43 (40)	
8.2 (23)	15 (29)	27 (35)	47 (41)	

DO-214AC (SMAZ)
Value (Code) Chart

5.1 (5V1)	9.1 (9V1)	20 (20)	36 (36)
5.6 (5V6)	10 (10)	22 (22)	39 (39)
6.2 (6V2)	12 (12)	24 (24)	
6.8 (6V8)	15 (15)	27 (27)	
7.5 (7V5)	16 (16)	30 (30)	
8.2 (8V2)	18 (18)	33 (33)	

NEW!* SOD-123 (MMSZ52) *NEW!
Value (Code) Chart

2.7 (23)	12 (42)	24 (52)
3.9 (28)	13 (43)	27 (54)
5.1 (31)	15 (45)	39 (59)
6.2 (34)	16 (46)	
9.1 (39)	18 (48)	

SOD-123 (BZT52C)
Value (Code) Chart

2.4 (2V4)	10 (10)	33 (33)
3.9 (3V9)	11 (11)	36 (36)
5.1 (5V1)	12 (12)	39 (39)
5.6 (5V6)	15 (15)	
9.1 (9V1)	24 (24)	

NEW!* SOD-323 (MMXZ52) *NEW!
Value (Code) Chart

2.7 (23)	13 (43)	39 (59)
3.9 (28)	15 (45)	
5.1 (31)	24 (52)	
5.6 (32)	27 (54)	
9.1 (39)	36 (58)	

SOD-323 (BZT52C)
Value (Code) Chart

2.7 (2V7)	13 (13)
3.9 (3V9)	15 (15)
5.1 (5V1)	24 (24)
9.1 (9V1)	27 (27)
10 (10)	36 (36)
12 (12)	39 (39)

NEW!* SOT-23 (BZX84C) *NEW!
Value (Code) Chart

5.1 (5V1)	15 (15)
5.6 (5V6)	27 (27)
7.5 (7V5)	39 (39)
9.1 (9V1)	
11 (11)	

Fig.	Zener Voltage Value Range	Watts	Digi-Key Part No.†	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.†	Tape and Reel Qty.	Pricing
				DO-15					
1	5.1 ~ 51	5.0	1N53**(Code)**BTPMSCT-ND	3.90	31.20	234.00	1N53**(Code)**BTPMSTR-ND	4,000	156.00/M
				DO-41G					
1	3.3 ~ 39	1.0	1N47**(Code)**A-TPCT-ND	1.00	8.00	60.00	1N47**(Code)**A-TPTR-ND	5,000	40.00/M
	43 ~ 75	1.0	1N47**(Code)**A-TPCT-ND	1.75	14.00	105.00	1N47**(Code)**A-TPTR-ND	5,000	70.00/M
				DO-35					
2	2.4 ~ 39	0.5	1N52**(Code)**B-TPCT-ND	.75	6.00	45.00	1N52**(Code)**B-TPTR-ND	10,000	30.00/M
	43 ~ 150	0.5	1N52**(Code)**B-TPCT-ND	1.00	8.00	60.00	1N52**(Code)**B-TPTR-ND	10,000	40.00/M
				DO-214AA					
3	11 ~ 39	3.0	3SMBJ59**(Code)**BTPMSCT-ND	4.75	38.00	285.00	3SMBJ59**(Code)**BTPMSTR-ND	3,000	190.00/M
	5.1 ~ 51	5.0	SMBJ53**(Code)**B-TPMSCT-ND	10.00	80.00	600.00	SMBJ53**(Code)**B-TPMSTR-ND	3,000	400.00/M
				DO-214AC					
4	6.2 ~ 75	2.0	SMAJ47**(Code)**A-TPCT-ND	2.75	22.00	165.00	SMAJ47**(Code)**A-TPTR-ND	7,500	110.00/M
	5.1 ~ 51	1.5	SMAJ59**(Code)**BTPMSCT-ND	3.25	26.00	195.00	SMAJ59**(Code)**BTPMSTR-ND	7,500	130.00/M
	5.1 ~ 51	3.0	3SMAJ59**(Code)**B-TPMSCT-ND ***NEW!***	4.55	39.00	292.50	3SMAJ59**(Code)**B-TPMSTR-ND ***NEW!***	7,500	260.00/M
	5.1 ~ 39	1.0	SMAZ**(Code)**-TPMSCT-ND ***NEW!***	2.75	22.00	165.00	SMAZ**(Code)**-TPMSTR-ND ***NEW!***	7,500	110.00/M
				SOD-123					
5	2.4 ~ 39	0.5	BZT52C**(Code)**-TPMSCT-ND	1.85	14.80	111.00	BZT52C**(Code)**-TPMSTR-ND	3,000	74.00/M
	2.7 ~ 39	0.5	MMSZ52**(Code)**B-TPMSCT-ND ***NEW!***	1.50	12.00	90.00	MMSZ52**(Code)**B-TPMSTR-ND ***NEW!***	3,000	60.00/M
				SOD-323					
6	2.7 ~ 39	0.2	BZT52C**(Code)**S-TPMSCT-ND	2.00	16.00	120.00	BZT52C**(Code)**S-TPMSTR-ND	3,000	80.00/M
	2.7 ~ 39	0.2	MMXZ52**(Code)**B-TPMSCT-ND ***NEW!***	1.50	12.00	90.00	MMXZ52**(Code)**B-TPMSTR-ND ***NEW!***	3,000	60.00/M
				NEW! SOT-23 NEW!					
7	5.1 ~ 39	.35	BZX84C **(Code)**-TPMSCT-ND	1.25	10.00	75.00	BZX84C **(Code)**-TPMSTR-ND	3,000	50.00/M

† For complete part number, substitute the corresponding code from the Value Chart for (Code).

Micro Commercial Components

Transistors

Fig. 1 — SOT-23

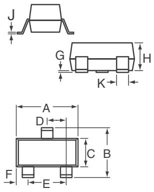

Dimensions – mm		
Dim.	**Min.**	**Max.**
A	2.80	3.04
B	2.10	2.64
C	1.20	1.40
D	0.89	1.03
E	1.78	2.05
F	0.45	0.60
G	0.013	0.100
H	0.89	1.12
J	0.085	0.180
K	0.37	0.51

Fig. 2 — SOT-323

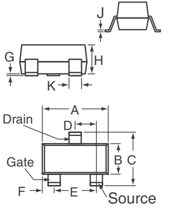

Dimensions – mm		
Dim.	**Min.**	**Max.**
A	1.80	2.20
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
E	1.20	1.40
F	0.30	0.40
G	—	0.100
H	0.90	1.00
J	0.100	0.250
K	0.30	0.40

Fig. 3 — SOT-363

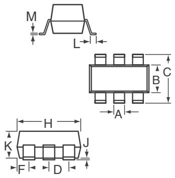

Dimensions – mm		
Dim.	**Min.**	**Max.**
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
F	0.30	0.40
H	1.80	2.20
J	—	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.25

Fig. 4 — SOT-563

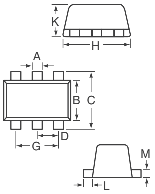

Dimensions – mm		
Dim.	**Min.**	**Max.**
A	0.15	0.30
B	1.10	1.25
C	1.55	1.70
D	(0.50 Nominal)	
G	0.90	1.10
H	1.50	1.70
K	0.56	0.60
L	0.10	0.30
M	0.10	0.18

Fig. 5 — SOT-523

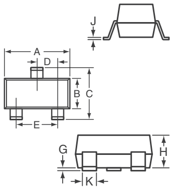

Dimensions – mm		
Dim.	**Min.**	**Max.**
A	1.50	1.70
B	0.75	0.85
C	1.45	1.75
D	(0.50 Nominal)	
E	0.90	1.10
G	—	0.100
H	0.70	0.80
J	0.100	0.200
K	0.25	0.35

Fig. 6 — TO-92

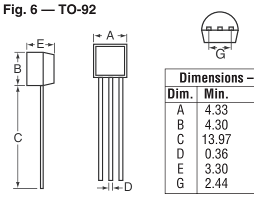

Dimensions – mm		
Dim.	**Min.**	**Max.**
A	4.33	4.83
B	4.30	4.83
C	13.97	14.97
D	0.36	0.56
E	3.30	3.96
G	2.44	2.64

Fig. 7 — TO-220 / TO-220AB

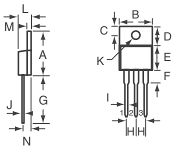

1. Base
2. Collector
3. Emitter

Dimensions – mm					
Dim.	**Min.**	**Max.**	**Dim.**	**Min.**	**Max.**
A	14.22	15.88	H	2.29	2.79
B	9.65	10.67	I	0.51	1.14
C	2.54	3.43	J	0.30	0.64
D	5.84	6.86	K	3.53	4.09
E	8.50	9.35	L	3.56	4.83
F	—	6.35	M	1.14	1.40
G	12.70	14.73	N	2.03	2.92

V_{CEO} (V)	$V_{CE(sat)}$ (Vdc)	I_C (mA)	H_{FE}	Pd (mW)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	T & R* Pricing 3,000	MCC Part No.
NPN									
Fig. 1 – SOT-23									
30	1.50	—	5,000	225	MMBTA13TPMSCT-ND	2.50	20.00	—	MMBTA13-TP
30	1.50	—	10,000	225	MMBTA14TPMSCT-ND	2.50	20.00	—	MMBTA14-TP
40	0.20	—	100	350	MMBT3904TPMSCT-ND	.75	6.00	30.00/M	MMBT3904-TP
40	0.30	—	75	350	MMBT2222ATPMSCT-ND	.75	6.00	30.00/M	MMBT2222A-TP
40	0.40	—	80	350	MMBT4401TPMSCT-ND	.75	6.00	30.00/M	MMBT4401-TP
45	0.50	100	220	225	BC847A-TPCT-ND	.75	6.00	30.00/M	BC847A-TP
45	0.50	100	450	225	BC847B-TPCT-ND	.75	6.00	30.00/M	BC847B-TP
45	0.50	100	800	225	BC847C-TPCT-ND	.75	6.00	30.00/M	BC847C-TP
60	0.25	500	100	350	MMBTA05TPMSCT-ND	1.50	12.00	60.00/M	MMBTA05-TP
80	0.25	500	100	350	MMBTA06TPMSCT-ND	1.50	12.00	—	MMBTA06-TP
160	0.50	600	200	300	MMBT5551-TPCT-ND	.90	7.20	36.00/M	MMBT5551-TP
300	0.50	—	40	300	MMBTA42TPMSCT-ND	1.50	12.00	60.00/M	MMBTA42-TP
Fig. 2 – SOT-323									
40	0.25	—	100	—	MMST3904TPM SCT-ND	1.00	8.00	40.00/M	MMST3904-TP
40	0.40	—	100	200	MMST4401TPMSCT-ND	1.00	8.00	40.00/M	MMST4401-TP
40	0.60	—	100	200	MMST2222ATPMSCT-ND	1.00	8.00	40.00/M	MMST2222A-TP
45	0.25	100	220	—	BC847AW-TPCT-ND	.95	7.60	38.00/M	BC847AW-TP
45	0.25	100	450	—	BC847BW-TPCT-ND	.95	7.60	38.00/M	BC847BW-TP
50	0.25	100	800	—	BC847CW-TPCT-ND	.95	7.60	38.00/M	BC847CW-TP
160	0.15	—	80	200	MMST5551TPMSCT-ND	1.00	8.00	40.00/M	MMST5551-TP
300	0.50	200	40	—	MMSTA42TPMSCT-ND	1.00	8.00	40.00/M	MMSTA42-TP
Fig. 3 – SOT-363									
40	0.30	200	300	200	MMDT3904-TPCT-ND	2.25	18.00	90.00/M	MMDT3904-TP
40	0.30	200	300	200	DMMT3904-TPCT-ND	3.00	24.00	120.00/M	DMMT3904-TP
40	0.30	600	300	—	MMDT2222A-TPCT-ND	2.00	16.00	—	MMDT2222A-TP
40	0.40	600	300	200	MMDT4401-TPCT-ND	2.00	16.00	80.00/M	MMDT4401-TP
45	0.25	100	630	200	BC847BS-TPCT-ND	2.00	16.00	80.00/M	BC847BS-TP
160	0.15	200	250	200	MMDT5551-TPCT-ND	2.00	16.00	80.00/M	MMDT5551-TP
Fig. 4 – SOT-563									
40	0.30	200	100	200	MMDT3904VTPMSCT-ND	2.00	16.00	80.00/M	MMDT3904V-TP
45	0.50	100	200	225	BC847BVTPMSCT-ND	1.50	12.00	—	BC847BV-TP
Fig. 5 – SOT-523									
40	0.20	200	300	150	MMBT3904T-TPCT-ND	1.50	12.00	—	MMBT3904T-TP
40	0.30	600	300	150	MMBT2222AT-TPCT-ND	1.50	12.00	60.00/M	MMBT2222AT-TP
45	0.25	100	222	150	BC847AT-TPCT-ND	1.50	12.00	—	BC847AT-TP
45	0.25	100	800	150	BC847CT-TPCT-ND	1.50	12.00	60.00/M	BC847CT-TP
Fig. 6 – TO-92									
40	0.20	—	300	600	2N3904-APCT-ND†	.60	4.80	39.00/M	2N3904-AP
40	0.75	—	300	600	2N4401-APCT-ND†	.60	4.80	39.00/M	2N4401-AP
40	1.00	—	300	600	PN2222A-APCT-ND	1.50	12.00	—	PN2222A-AP
Fig. 7 – TO-220									
40	0.70	1A	20	30W	TIP29-BP-ND	5.25	45.00	—	TIP29-BP
60	0.70	1A	20	30W	TIP29A-BP-ND	5.25	45.00	—	TIP29A-BP
60	1.50	6A	15	65W	TIP41A-BP-ND	10.50	90.00	—	TIP41A-BP
60	2.50	5A	1,000	65W	TIP120-BP-ND	12.25	105.00	—	TIP120-BP
60	2.50	8A	200	80W	TIP100-BP-ND	12.25	105.00	—	TIP100-BP
80	0.70	1A	20	30W	TIP29B-BP-ND	5.25	45.00	—	TIP29B-BP
80	2.50	8A	200	80W	TIP101-BP-ND	12.25	105.00	—	TIP101-BP
100	0.70	1A	20	30W	TIP29C-BP-ND	5.25	45.00	—	TIP29C-BP
100	1.50	6A	15	65W	TIP41C-BP-ND	10.50	90.00	—	TIP41C-BP
100	2.50	5A	1,000	65W	TIP122-BP-ND	12.25	105.00	—	TIP122-BP
100	2.50	8A	200	80W	TIP102-BP-ND	12.25	105.00	—	TIP102-BP
Fig. 7 – TO-220AB									
60	1.20	2A	20	30W	TIP31A-BP-ND	5.25	45.00	—	TIP31A-BP
60	2.50	2A	500	80W	TIP110-BP-ND	12.25	105.00	—	TIP110-BP
80	1.20	3A	20	30W	TIP31B-BP-ND	5.25	45.00	—	TIP31B-BP
80	2.50	2A	500	80W	TIP111-BP-ND	12.25	105.00	—	TIP111-BP
100	1.20	3A	20	30W	TIP31C-BP-ND	5.25	45.00	—	TIP31C-BP
100	2.50	2A	500	80W	TIP112-BP-ND	12.25	105.00	—	TIP112-BP
PNP									
Fig. 1 – SOT-23									
40	0.25	—	300	350	MMBT3906-TPCT-ND	.50	4.00	—	MMBT3906-TP
40	0.40	—	300	350	MMBT4403-TPCT-ND	.90	7.20	36.00/M	MMBT4403-TP
60	0.25	500	100	225	MMBTA55-TPCT-ND	1.15	9.20	46.00/M	MMBTA55-TP
60	1.30	100	75	350	MMBT2907A-TPMSCT-ND	1.00	8.00	40.00/M	MMBT2907A-TP
80	0.25	500	100	225	MMBTA56-TPCT-ND	1.15	9.20	46.00/M	MMBTA56-TP
150	0.50	600	200	300	MMBT5401-TPCT-ND	.90	7.20	36.00/M	MMBT5401-TP
300	0.50	300	200	300	MMBTA92-TPCT-ND	.90	7.20	36.00/M	MMBTA92-TP
Fig. 2 – SOT-323									
40	0.20	200	100	—	MMST3906TPMSCT-ND	1.00	8.00	40.00/M	MMST3906-TP
40	0.40	—	100	200	MMST4403TPMSCT-ND	1.00	8.00	40.00/M	MMST4403-TP
60	0.60	—	100	200	MMST2907ATPMSCT-ND	1.00	8.00	40.00/M	MMST2907A-TP
150	0.20	—	60	200	MMST5401TPMSCT-ND	1.00	8.00	—	MMST5401-TP
Fig. 3 – SOT-363									
40	0.25	200	300	200	MMDT3906-TPCT-ND	2.25	18.00	90.00/M	MMDT3906-TP
40	0.40	200	300	200	DMMT3906-TPCT-ND	3.00	24.00	120.00/M	DMMT3906-TP
40	0.40	600	300	200	MMDT4403-TPCT-ND	2.00	16.00	80.00/M	MMDT4403-TP
150	0.20	200	240	200	MMDT5401-TPCT-ND	2.00	16.00	—	MMDT5401-TP
Fig. 4 – SOT-563									
40	0.25	-200	100	—	MMDT3906VTPMSCT-ND	2.00	16.00	80.00/M	MMDT3906V-TP
45	—	-100	—	310	BC857BVTPMSCT-ND	1.50	12.00	60.00/M	BC857BV-TP
Fig. 5 – SOT-523									
40	0.25	200	300	150	MMBT3906T-TPCT-ND	1.50	12.00	—	MMBT3906T-TP
60	0.40	600	300	150	MMBT2907AT-TPCT-ND	1.50	12.00	—	MMBT2907AT-TP
Fig. 6 – TO-92									
40	0.40	—	300	600	2N3906-APCT-ND†	.60	4.80	39.00/M	2N3906-AP
40	0.75	—	300	600	2N4403-APCT-ND†	.60	4.80	39.00/M	2N4403-AP
60	1.60	—	300	600	PN2907A-APCT-ND†	.60	4.80	39.00/M	PN2222A-AP
Fig. 7 – TO-220									
40	1.20	3A	75	2W	TIP32-BP-ND	5.25	45.00	—	TIP32-BP
60	1.20	3A	75	2W	TIP32A-BP-ND	5.25	45.00	—	TIP32A-BP
60	1.20	5A	1,000	2W	TIP125-BP-NDΔ	12.25	105.00	—	TIP125-BP
80	1.20	5A	1,000	2W	TIP126-BP-NDΔ	12.25	105.00	—	TIP126-BP
80	2.50	2A	500	2W	TIP116-BP-NDΔ	12.25	105.00	—	TIP116-BP
100	1.20	3A	75	2W	TIP32C-BP-ND	5.25	45.00	—	TIP32C-BP
100	1.20	3A	75	2W	TIP42C-BP-ND	10.50	90.00	—	TIP42C-BP
100	1.20	5A	1000	2W	TIP127-BP-NDΔ	12.25	105.00	—	TIP127-BP

* For Tape and Reel part number, change CT-ND to TR-ND.
† For Tape and Box part number, change CT-ND to TB-ND. Box qty. 2,000. Δ Darlington

NEW! Digital Transistors

VCEO (V) (Max.)	IO (mA) (Typ.)	Gain (HFE) (Min.)	R1 (kΩ) (Max.)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	T & R* Pricing 3,000	MCC Part No.
NPN								
SOT-323								
10	100	33	1.3	DTC113ZUA-TPMSCT-ND	1.50	12.00	60.00/M	DTC113ZUA-TP
12	100	80	2.86	DTC123JUA-TPMSCT-ND	1.30	10.40	52.00/M	DTC123JUA-TP
40	30	56	28.6	DTC124EUA-TPMSCT-ND	1.30	10.40	52.00/M	DTC124EUA-TP
40	50	30	13	DTC114EUA-TPMSCT-ND	1.25	10.00	50.00/M	DTC114EUA-TP
40	100	68	61.1	DTC144EUA-TPMSCT-ND	1.25	10.00	50.00/M	DTC144EUA-TP
40	70	68	13	DTC114YUA-TPMSCT-ND	1.25	10.00	50.00/M	DTC114YUA-TP
50	100	100	13	DTC114TUA-TPMSCT-ND	1.15	9.20	46.00/M	DTC114TUA-TP
50	100	100	61.1	DTC144TUA-TPMSCT-ND	1.40	11.20	56.00/M	DTC144TUA-TP
SOT-523								
40	70	68	13	DTC114YE-TPMSCT-ND	1.25	10.00	50.00/M	DTC114YE-TP
40	30	56	28.6	DTC124EE-TPMSCT-ND	1.30	10.40	52.00/M	DTC124EE-TP
40	100	68	61.1	DTC144EE-TPMSCT-ND	1.00	8.00	40.00/M	DTC144EE-TP
50	100	80	2.2	DTC123JE-TPMSCT-ND	1.30	10.40	52.00/M	DTC123JE-TP
50	100	100	13	DTC114TE-TPMSCT-ND	1.25	10.00	50.00/M	DTC114TE-TP
50	100	100	61.1	DTC144TE-TPMSCT-ND	1.30	10.40	52.00/M	DTC144TE-TP
PNP								
SOT-323								
5	100	80	2.86	DTA123JUA-TPMSCT-ND	1.25	10.00	50.00/M	DTA123JUA-TP
5	100	80	6.11	DTA143ZUA-TPMSCT-ND	1.25	10.00	50.00/M	DTA143ZUA-TP
10	30	56	28.6	DTA124EUA-TPMSCT-ND	1.25	10.00	50.00/M	DTA124EUA-TP
10	30	68	61.1	DTA144EUA-TPMSCT-ND	1.25	10.00	50.00/M	DTA144EUA-TP
10	50	30	13	DTA114EUA-TPMSCT-ND	1.15	9.20	46.00/M	DTA114EUA-TP
10	100	30	6.11	DTA143EUA-TPMSCT-ND	1.25	10.00	50.00/M	DTA143EUA-TP
50	100	100	13	DTA114TUA-TPMSCT-ND	1.25	10.00	50.00/M	DTA114TUA-TP
SOT-523								
5	100	80	2.86	DTA123JE-TPMSCT-ND	1.25	10.00	50.00/M	DTA123JE-TP
5	100	80	6.11	DTA143ZE-TPMSCT-ND	1.25	10.00	50.00/M	DTA143ZE-TP
10	30	56	28.6	DTA124EE-TPMSCT-ND	1.25	10.00	50.00/M	DTA124EE-TP
10	30	68	61.1	DTA144EE-TPMSCT-ND	1.40	11.20	56.00/M	DTA144EE-TP
10	100	30	6.11	DTA143EE-TPMSCT-ND	1.25	10.00	50.00/M	DTA143EE-TP
50	100	100	13	DTA114TE-TPMSCT-ND	1.25	10.00	50.00/M	DTA114TE-TP

* For Tape and Reel part number, change CT-ND to TR-ND.

Microsemi

Power Diodes

Fig. 1 — DO-4

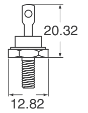

Fig. 2 — DO-5

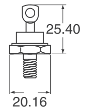

Fig. 3 — DO-214AB

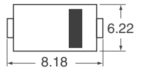

Fig. 4 — Half Pak

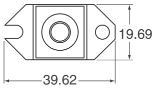

Fig. 5 — MD3CC

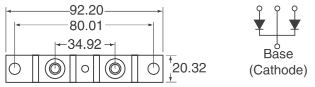

Fig. 6 — TO-220AB

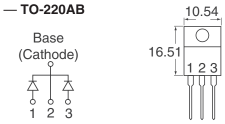

Fig. 7 — TO-220AC

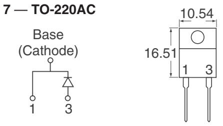

Fig. 8 — TO-247

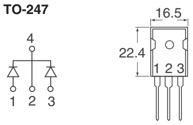

Fig.	Working Peak Reverse Voltage	Avg. Forward Current I_F (AV)	Max. Surge Current I_{FSM}	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape and Reel		Microsemi Part No.
					1	10	100		Qty.	Pricing	
1	50	30A	600A	SBR3050-ND	17.72	159.48	1329.00	—	—	—	SBR3050
	35	30A	600A	SD41-ND	16.20	145.80	1215.00	—	—	—	SD41
2	50	80A	1200A	SBR8050-ND	19.88	178.92	1491.00	—	—	—	SBR8050
	15	80A	1200A	SBR8215-ND◆	20.92	188.28	1569.00	—	—	—	SBR8215
3	45	3A	150A	LSM345JCT-ND	4.13	27.50	220.00	LSM345JTR-ND	3,000	1375.00/M	LSM345J
	45	5A	250A	LSM545JCT-ND	5.03	33.50	268.00	LSM545JTR-ND	3,000	1675.00/M	LSM545J
	45	8A	350A	LSM845JCT-ND◆	5.78	38.50	308.00	LSM845JTR-ND◆	2,500	1925.00/M	LSM845J
4	15	240A	3500A	HS24515-ND	51.32	461.88	3849.00	—	—	—	HS24515
5	50	300A	2000A	CPT30050-ND	64.28	578.52	4821.00	—	—	—	CPT30050
6	150	20A	225A	FST20150-ND	3.60	32.40	270.00	—	—	—	FST20150
	180	30A	250A	FST31180-ND	3.60	32.40	270.00	—	—	—	FST31180
7	45	16A	300A	MS1645-ND	3.20	28.80	240.00	—	—	—	MS1645
	45	16A	300A	MS1645E3-ND◆	3.20	28.80	240.00	—	—	—	MS1645E3
8	100	30A	350A	FST30100-ND	6.24	56.16	468.00	—	—	—	FST30100
	100	50A	400A	FST50100-ND	9.80	88.20	735.00	—	—	—	FST50100

◆ *RoHS Compliant*

Diodes

Fig.	V_{RM} Max.	I_C Avg. (A)	V_F Max.	Digi-Key Part No.	Pricing			Microsemi Part No.
					1	25	100	
1	1000	15	3.0	APT15DQ100KGMP-ND	2.12	47.70	159.00	APT15DQ100KG
	600	15	2.4	APT15DQ60KGMP-ND	1.76	39.60	132.00	APT15DQ60KG
2	1000	30	3.0	APT30DQ100BGMP-ND	4.48	100.80	336.00	APT30DQ100BG
	600	30	2.4	APT30DQ60BGMP-ND	3.64	81.90	273.00	APT30DQ60BG
	1200	60	3.3	APT60DQ120BGMP-ND	7.80	175.50	585.00	APT60DQ120BG
	600	60	2.4	APT60DQ60BGMP-ND	5.28	118.80	396.00	APT60DQ60BG

Fig. 1 — TO-220

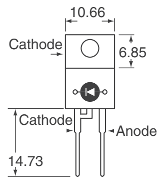

Fig. 2 — TO-247

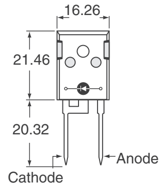

IGBT

Fig.	V_{CES} Max.	I_C Avg. (A)	I_{CM} Max. (A)	Digi-Key Part No.	Pricing			Microsemi Part No.
					1	25	100	
1	600	56	65	APT15GP60BDQ1GMP-ND	10.16	228.60	762.00	APT15GP60BDQ1G
	600	100	120	APT30GP60BGMP-ND	15.00	337.50	1125.00	APT30GP60BG
	600	100	120	APT30GP60BDQ1GMP-ND	16.36	368.10	1227.00	APT30GP60BDQ1G
2	600	100	160	APT40GP60B2DQ2GMP-ND	24.72	556.20	1854.00	APT40GP60B2DQ2G

Fig. 1 — TO-247

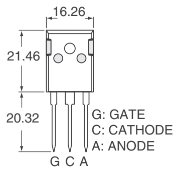

Fig. 2 — T-MAX™

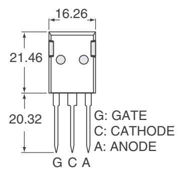

MOSFETs/FREDFETs

Fig.	V_{DS} Max.	I_C Avg. (A)	R_{DS} (on) Max. Ω	Digi-Key Part No.	Pricing			Microsemi Part No.
					1	25	100	
1	1000	14	0.90	APT14M100BMP-ND	14.96	336.60	1122.00	APT14M100B
	500	24	0.14	APT24F50BMP-ND	9.56	215.10	717.00	APT24F50B
	500	30	0.19	APT30F50BMP-ND	10.68	240.30	801.00	APT30F50B
	500	42	0.14	APT42F50BMP-ND	20.20	454.50	1515.00	APT42F50B
	600	56	0.13	APT56M60B2MP-ND	32.16	723.60	2412.00	APT56M60B2
2	1000	31	0.40	APT31M100LMP-ND	35.68	802.80	2676.00	APT31M100L
3	500	38	0.10	APT38M50JMP-ND	52.24	1175.40	3918.00	APT38M50J

**Fig. 1 —
TO-247(B)
T-MAX™(B2)**

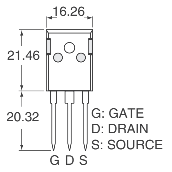

Fig. 2 — TO-264(L)

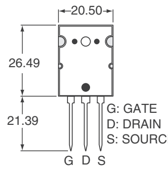

Fig. 3 — SOT-227 (ISOTOP®)

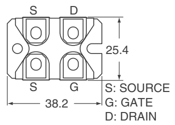

Microsemi Surface Mount Schottky Barrier Rectifiers

RoHS COMPLIANT

Fig. 1 — POWERMITE®

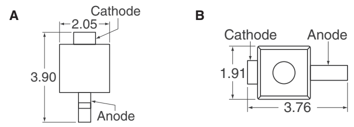

Fig. 2 — POWERMITE®3

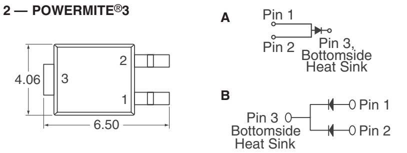

Fig. 3 — POWERDI™5

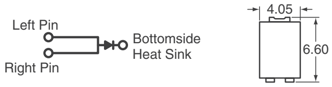

Fig.	Forward Average Rectified Current (A)	Working Peak Reverse Voltage (V)	Maximum Forward Voltage (V)	@ Amps (A)	Maximum dc Reverse Current @ V_{RWM} (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
						POWERMITE						
1A	1.0	20	0.65	3.0	0.4	UPS120E3CT-ND	.96	8.64	72.00	UPS120E3TR-ND	3,000	600.00/M
		20	0.595	2.0	0.01	UPS120EE3CT-ND	1.00	9.00	75.00	UPS120EE3TR-ND	3,000	625.00/M
		40	0.75	3.0	0.4	UPS140E3CT-ND	1.00	9.00	75.00	UPS140E3TR-ND	3,000	625.00/M
		40	0.45	1.0	0.4	UPS140CT-ND	5.70	47.50	380.00	—	—	—
1B	1.0	20	0.65	3.0	1.0	UPS5817E3CT-ND	.84	7.56	63.00	UPS5817E3TR-ND	3,000	525.00/M
		40	0.85	3.0	1.0	UPS5819E3CT-ND	.88	7.92	66.00	UPS5819E3TR-ND	3,000	550.00/M
						POWERMITE3						
2A	3.0	40	0.50	3.0	0.5	UPS340E3CT-ND	1.44	12.96	108.00	UPS340E3TR-ND	5,000	810.00/M
	3.0	60	0.63	3.5	0.2	UPS360E3CT-ND	1.52	13.68	114.00	UPS360E3TR-ND	5,000	855.00/M
	3.0	100	0.76	3.0	0.2	UPS3100E3CT-ND	1.68	15.12	126.00	UPS3100E3TR-ND	5,000	945.00/M
	5.0	40	0.54	5.0	0.5	UPS540E3CT-ND	1.76	15.84	132.00	UPS540E3TR-ND	5,000	990.00/M
	5.0	60	0.69	5.0	0.2	UPS560E3CT-ND	1.84	16.56	138.00	UPS560E3TR-ND	5,000	1035.00/M
	5.0	100	0.81	5.0	0.2	UPS5100E3CT-ND	1.96	17.64	147.00	UPS5100E3TR-ND	5,000	1102.50/M
	5.0	100	0.81	5.0	0.2	UPS5100HE3CT-ND	2.00	18.00	150.00	UPS5100HE3TR-ND	5,000	1125.00/M
	7.0	60	0.60	7.0	0.1	UPS760E3CT-ND	1.92	17.28	144.00	UPS760E3TR-ND	5,000	1080.00/M
	8.0	35	0.51	8.0	1.4	UPS835LE3CT-ND	1.84	16.56	138.00	UPS835LE3TR-ND	5,000	1035.00/M
	8.0	40	0.37	3.0	5.0	UPS840E3CT-ND	2.02	18.22	151.80	UPS840E3TR-ND	5,000	1138.50/M
	10.0	40	0.51	10.0	0.3	UPS1040E3CT-ND	2.36	21.24	177.00	UPS1040E3TR-ND	5,000	1327.50/M
2B	2 x 5.0	40	0.48	5.0	0.15	UPS1040CTE3CT-ND	3.80	34.20	285.00	UPS1040CTE3TR-ND	5,000	2137.50/M
						POWERDI5						
3	3.0	200	0.78	3.0	0.01	UPDS3200E3CT-ND	3.00	27.00	225.00	UPDS3200E3TR-ND	5,000	1687.50/M
	5.0	100	0.71	5.0	0.01	UPDS5100HE3CT-ND	2.20	19.80	165.00	UPDS5100HE3TR-ND	5,000	1237.50/M

Ultra Fast Rectifiers POWERMITE®

RoHS COMPLIANT

Fig.	V_R (V)	I_F (A)	I_{FSM} (A)	P_d (W)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
1	600	2	20	2.5	UPR60E3CT-ND	2.08	18.72	156.00	UPR60E3TR-ND	1300.00/M
2	50	2.5	25	—	UPR5E3CT-ND	1.32	11.88	99.00	UPR5E3TR-ND	825.00/M
	100	2.5	25	—	UPR10E3CT-ND	1.44	12.96	108.00	UPR10E3TR-ND	900.00/M
	150	2.5	25	—	UPR15E3CT-ND	1.56	14.04	117.00	UPR15E3TR-ND	975.00/M

Fig. 1

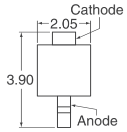

Fig. 2

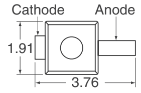

Zener Diodes

Fig. 1
DO-35
500mW

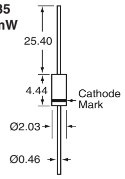

Fig. 2
DO-41
1W/2W

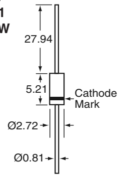

Fig. 3
T-18
5W

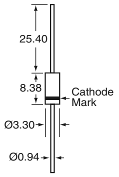

500mW Series DO-35 Silicon Zener Diodes, 1N5221 — 1N5278

(Value)	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	*(Value)*	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	*(Value)*	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	*(Value)*	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	*(Value)*	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)
21	2.4	20	30	4.7	20	48	18	7.0	55	28	4.5	66	68	1.8
24	2.8	20	33	6.0	20	49	19	6.6	60	42	3.0	67	75	1.7
26	3.3	20	36	7.5	20	51	24	5.6	61	47	2.7	68	82	1.5
27	3.6	20	40	10	20	52	24	5.2	62	51	2.5	72	110	1.1
28	3.9	20	42	12	20	53	25	5.0	64	60	2.1	74	130	0.95
29	4.3	20	47	17	7.4	54	27	4.6	65	62	2.0	75	140	0.90

1W Series,
DO-41 Glass Zener Diodes
1N4736A — 1N4763A

(Value)	Zener Voltage Vz (Volts)	Test Current Izt (mA)
41	11	23
43	13	19
56	47	5.5
63	91	2.8

2W Series, DO-41 Silicon Zener Diodes 2EZ3.6D5 — 2EZ200D5

Nominal Zener Voltage *(Value)*	Vz (Volts)	Izt (mA)	Nominal Zener Voltage *(Value)*	Vz (Volts)	Izt (mA)	Nominal Zener Voltage *(Value)*	Vz (Volts)	Izt (mA)	Nominal Zener Voltage *(Value)*	Vz (Volts)	Izt (mA)
3.6	3.6	139	15	15	33.4	39	39	12.8	82	82	6.1
4.3	4.3	116	17	17	29.4	43	43	11.6	91	91	5.5
6.2	6.2	80.5	18	18	27.8	47	47	10.6	110	110	4.5
6.8	6.8	73.5	19	19	26.3	51	51	9.8	130	130	3.8
7.5	7.5	66.5	22	22	22.8	56	56	9.0	180	180	2.8
12	12	41.5	27	27	18.5	62	62	8.1	200	200	2.5
13	13	38.5	33	33	15.1	75	75	6.7			

5W Series,
T-18 Silicon Zener Diodes
1N5376B

(Value)	Regulator Voltage Vz	Test Current Iz
76	87	15

Fig.	DC Power Dissipation	Voltage Range (Code) See Chart	Digi-Key Part No.*	Cut Tape Pricing 1	10	100	Digi-Key Part No.*	Tape and Reel Pricing 4,000	8,000	10,000	Microsemi Part No.*
1	500 mW	2.4V — 140V	1N52(Value)DO35MSCT-ND	1.20	8.40	60.00	1N52(Value)DO35MSTR-ND	—	—	210.00/M	1N52(Value)DO35
2	1 W	6.8V — 91V	1N47(Value)AD041MSCT-ND	.25	1.65	13.20	1N47(Value)AD041MSTR-ND	74.00/M	59.00/M	—	1N47(Value)AD041
	2 W	3.6V — 200V	2EZ(Value)D5D041MSCT-ND	1.42	9.45	75.60	2EZ(Value)D5D041MSTR-ND	425.00/M	340.00/M	—	2EZ(Value)D5D041
3	5 W	87V — 130V	1N5376BMSCT-ND	1.20	8.00	64.00	—	—	—	—	1N5376B

* For complete part number, substitute corresponding value from chart for (Value).

POWERMITE™ Pin Diodes

RoHS COMPLIANT

Maximum Reverse Voltage (V)	Average Power Dissipation (W)	Maximum Capacitance (pF)	Maximum Reverse Current (µA)	Maximum Forward Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Microsemi Part No.
100	2.5	1.6	10	1.0	UPP1001E3CT-ND	2.80	2.52	2.10	UPP1001E3TR-ND	1750.00/M	UPP1001E3/TR7
50	2.5	1.0	—	1.0	UPP9401E3CT-ND	2.72	2.45	2.04	UPP9401E3TR-ND	1700.00/M	UPP9401E3/TR7

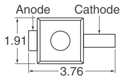

Digi-Reel® RoHS

Dimensions in (mm)

8-SOIC, 8-SOP

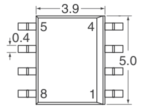

1. Source
2. Source
3. Source
4. Gate
5. Drain
6. Drain
7. Drain
8. Drain

SOT-23

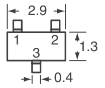

1. Source
2. Gate
3. Drain

SOT-89

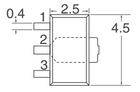

1. Gate
2. Drain
3. Source

SOT-323

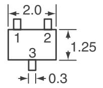

1. Source
2. Gate
3. Drain

SOT-346

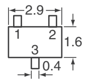

1. Source
2. Gate
3. Drain

SOT-416

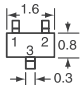

1. Source
2. Gate
3. Drain

D-PAK

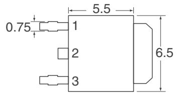

1. Gate
2. Drain
3. Source

TO-220FM, TO-220FN

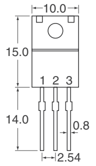

1. Gate
2. Drain
3. Source

TSMT-3

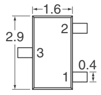

1. Gate
2. Source
3. Drain

TSMT-5

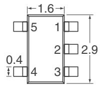

1. Anode
2. Source
3. Gate
4. Drain
5. Cathode

TSMT-6

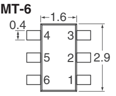

1. Gate
2. Source
3. Gate
4. Drain
5. Source
6. Drain

RSQ035N03

1. Drain
2. Drain
3. Gate
4. Source
5. Drain
6. Drain

TUMT-3

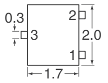

1. Gate
2. Source
3. Drain

TUMT-6

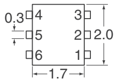

1. Source
2. Gate
3. Drain
4. Source
5. Gate
6. Drain

VMT-3

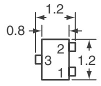

1. Gate
2. Source
3. Drain

EMT-6

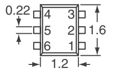

1. Source
2. Gate
3. Drain
4. Source
5. Gate
6. Drain

SOT-353

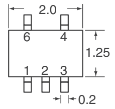

1. Gate
2. Source
3. Gate
4. Drain
6. Drain

SOT-363

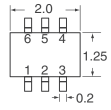

1. Source
2. Gate
3. Drain
4. Source
5. Gate
6. Drain

SOT-457

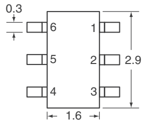

1. Drain
2. Gate
3. Source
4. Drain
5. Gate
6. Source

TUMT-5

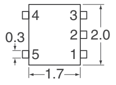

1. Gate
2. Source
3. Anode
4. Cathode
5. Drain

EMT-3 *NEW!*

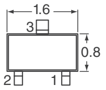

1. Source
2. Gate
3. Drain

Package	VDSS (V)	Typ. RDS (on) @	VGS (V)	ID (A)	IDP (A)	PD Max. (W)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Rohm Part No.
							N-Channel							
8-SOIC	30	27mΩ	4.5	6.5	26	2	RSS065N03TBCT-ND	.75	15.03	45.09	RSS065N03TBTR-ND	2,500	238.00/M	RSS065N03TB
		15mΩ	4.5	9	36		RSS090N03TBCT-ND	.75	15.03	45.09	RSS090N03TBTR-ND	2,500	238.00/M	RSS090N03TB
		12.5mΩ	4.5	10	40		RSS100N03TBCT-ND	.87	17.37	52.11	RSS100N03TBTR-ND	2,500	275.00/M	RSS100N03TB
		10.3mΩ	4.5	11	44		RSS110N03TBCT-ND	1.35	29.17	89.75	RSS110N03TBTR-ND	2,500	477.00/M	RSS110N03TB
		9.4mΩ	4.5	12	48		RSS120N03TBCT-ND	1.10	21.96	65.88	RSS120N03TBTR-ND	2,500	348.00/M	RSS120N03TB
		8.6mΩ	4.5	12.5	50		RSS125N03TBCT-ND	1.54	32.06	107.73	RSS125N03TBTR-ND	2,500	667.00/M	RSS125N03TB
		7.4mΩ	4.5	13	52		RSS130N03TBCT-ND	1.62	33.69	113.19	RSS130N03TBTR-ND	2,500	701.00/M	RSS130N03TB
		6mΩ	4.5	14	56		RSS140N03TBCT-ND	1.44	31.28	96.25	RSS140N03TBTR-ND	2,500	512.00/M	RSS140N03TB
8-SOP	30	20mΩ	10	7	—	2	RRS070N03TB1CT-ND ***NEW!***	1.04	20.70	62.10	RRS070N03TB1TR-ND ***NEW!***	2,500	328.00/M	RRS070N03TB1
		11mΩ	10	10	—		RRS100N03TB1CT-ND ***NEW!***	1.01	21.94	67.50	RRS100N03TB1TR-ND ***NEW!***	2,500	359.00/M	RRS100N03TB1
		9mΩ	10	11	—		RRS110N03TB1CT-ND ***NEW!***	1.50	32.50	100.00	RRS110N03TB1TR-ND ***NEW!***	2,500	532.00/M	RRS110N03TB1
		7.5mΩ	10	12.5	—		RRS125N03TB1CT-ND ***NEW!***	1.61	34.94	107.50	RRS125N03TB1TR-ND ***NEW!***	2,500	572.00/M	RRS125N03TB1
		7mΩ	10	13	—		RRS130N03TB1CT-ND ***NEW!***	1.80	39.00	120.00	RRS130N03TB1TR-ND ***NEW!***	2,500	638.00/M	RRS130N03TB1
	60	35mΩ	4	6.5	—	2	RSS065N06FU6TBCT-ND ***NEW!***	1.20	26.00	80.00	RSS065N06FU6TBTR-ND ***NEW!***	2,500	426.00/M	RSS065N06FU6TB
	45	35mΩ	4	7	28		RSS070N05FU6TBCT-ND ***NEW!***	1.31	28.44	87.50	RSS070N05FU6TBTR-ND ***NEW!***	2,500	466.00/M	RSS070N05FU6TB
	45	25mΩ	4	8.5	34		RSS085N05FU6TBCT-ND ***NEW!***	1.61	34.94	107.50	RSS085N05FU6TBTR-ND ***NEW!***	2,500	572.00/M	RSS085N05FU6TB
	45	21mΩ	4	9.5	38		RSS095N05FU6TBCT-ND ***NEW!***	1.58	32.88	110.46	RSS095N05FU6TBTR-ND ***NEW!***	2,500	684.00/M	RSS095N05FU6TB
SOT-23	60	7.5Ω	5	0.115	0.8	0.225	RK7002T116CT-ND	.34	5.00	13.00	RK7002T116TR-ND	3,000	47.00/M	RK7002T116
		1.1Ω	4	0.3	1.2	0.2	RK7002AT116CT-ND	.43	6.25	16.25	RK7002AT116TR-ND	3,000	59.00/M	RK7002AT116
SOT-89	30	0.09Ω	4	3	—	0.5	RHP030N03T100CT-ND	.71	14.20	42.60	RHP030N03T100TR-ND	1,000	227.00	RHP030N03T100
	60	0.16Ω	4	2	—	0.5	RJP020N06T100CT-ND	.97	19.35	58.05	RJP020N06T100TR-ND	1,000	333.00	RJP020N06T100
		0.25Ω	4	2	8		2SK3065T100CT-ND	.61	12.20	36.60	2SK3065T100TR-ND	1,000	195.00	2SK3065T100
		0.24Ω	4	2	—		RHP020N06T100CT-ND	.69	13.86	41.58	RHP020N06T100TR-ND	1,000	239.00	RHP020N06T100
SOT-323	30	1.4Ω	4	0.3	—	0.2	RHU003N03T106CT-ND	.45	7.69	21.32	RHU003N03T106TR-ND	3,000	82.00/M	RHU003N03T106
		5Ω	4	0.1	0.4		2SK3018T106CT-ND	.40	6.75	18.72	2SK3018T106TR-ND	3,000	72.00/M	2SK3018T106
		0.9Ω	4	0.3	—		RJU003N03T106CT-ND	.37	6.38	17.68	RJU003N03T106TR-ND	3,000	68.00/M	RJU003N03T106
	60	2.8Ω	4	0.2	0.8	0.2	RHU002N06T106CT-ND	.49	7.25	18.85	RHU002N06T106TR-ND	3,000	68.00/M	RHU002N06T106
		1.7Ω	4	0.2	—		RJU002N06T106CT-ND	.45	7.69	21.32	RJU002N06T106TR-ND	3,000	82.00/M	RJU002N06T106
SOT-346	30	2.8Ω	4	0.2	0.8	0.2	2SK2731T146CT-ND	.44	8.13	22.88	2SK2731T146TR-ND	3,000	94.00/M	2SK2731T146
		0.58Ω	4	0.5	—		RHK005N03T146CT-ND	.39	7.50	21.60	RHK005N03T146TR-ND	3,000	102.00/M	RHK005N03T146
		0.43Ω	4	0.5	—		RJK005N03T146CT-ND	.44	8.13	22.88	RJK005N03T146TR-ND	3,000	94.00/M	RJK005N03T146
	60	1.1Ω	4	0.3	—	0.2	RHK003N06T146CT-ND	.45	8.63	24.84	RHK003N06T146TR-ND	3,000	117.00/M	RHK003N06T146
SOT-416	30	5Ω	4	0.1	0.4	0.15	2SK3019TLCT-ND	.40	6.75	18.72	2SK3019TLTR-ND	3,000	72.00/M	2SK3019TL
CPT-3, D-PAK	60	0.4Ω	4	2	8	20	2SK2094TLCT-ND	1.10	21.96	65.88	2SK2094TLTR-ND	2,500	348.00/M	2SK2094TL
		0.17Ω	4	5	20		2SK2503TLCT-ND	1.10	21.96	65.88	2SK2503TLTR-ND	2,500	348.00/M	2SK2503TL
		0.15Ω*	10	8	20		RK3055ETLCT-ND	1.12	22.32	66.96	RK3055ETLTR-ND	2,500	353.00/M	RK3055ETL
	100	0.25Ω	4	5	20	20	2SK2504TLCT-ND	1.10	21.96	65.88	2SK2504TLTR-ND	2,500	348.00/M	2SK2504TL
	200	0.7Ω	10	3	12	20	2SK2887TLCT-ND	1.68	36.40	112.00	2SK2887TLTR-ND	2,500	596.00/M	2SK2887TL
	200	0.72Ω	10	5	20	20	RDD050N20TLCT-ND ***NEW!***	1.31	28.44	87.50	RDD050N20TLTR-ND ***NEW!***	2,500	466.00/M	RDD050N20TL
	500	3Ω	10	2	6	20	2SK2715TLCT-ND	.90	17.91	53.73	2SK2715TLTR-ND	2,500	284.00/M	2SK2715TL
	600	4.4Ω	10	2	6	20	2SK3050TLCT-ND	.98	19.62	58.86	2SK3050TLTR-ND	2,500	311.00/M	2SK3050TL

***** Maximum

(Continued)

Mosfets *(Cont.)*

Package	V_{DSS} (V)	Typ. R_{DS} (on) @	V_{GS} (V)	I_D (A)	I_{DP} (A)	P_D Max. (W)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Rohm Part No.
TO-220FM, TO-220FN	60	0.11Ω	4	10	40	30	2SK2095N-ND	2.40	50.00	168.00	—	—	—	2SK2095N
	200	0.55Ω	10	5	20	30	RDN050N20-ND	1.04	20.88	62.64	—	—	—	RDN050N20
		0.27Ω	10	10	40	35	RDN100N20-ND	.98	21.13	65.00	—	—	—	RDN100N20
		0.12Ω	10	15	45	40	RDN150N20-ND	1.50	32.50	100.00	—	—	—	RDN150N20
	250	0.38Ω	10	8	32	35	RDN080N25-ND	1.09	23.56	72.50	—	—	—	RDN080N25
		0.16Ω	10	12	48	40	RDN120N25-ND	1.56	32.50	109.20	—	—	—	RDN120N25
	450	0.85Ω	10	7	28	30	2SK2299N-ND	1.71	35.63	119.70	—	—	—	2SK2299N
		1Ω	10	5	20		2SK2713-ND	1.76	38.19	117.50	—	—	—	2SK2713
	500	1.1Ω	10	5	20	30	2SK2793-ND	2.42	50.50	169.68	—	—	—	2SK2793
		0.38Ω	10	13	52	50	R5013ANXFU6-ND ***NEW!***	3.51	76.38	227.50	—	—	—	R5013ANXFU6
		1.5Ω	10	5	20	35	RDX050N50FU6-ND ***NEW!***	2.40	50.00	168.00	—	—	—	RDX050N50FU6
		0.85Ω	10	8	32	40	RDX080N50FU6-ND ***NEW!***	2.97	64.63	192.50	—	—	—	RDX080N50FU6
		0.5Ω	10	12	48	45	RDX120N50FU6-ND ***NEW!***	4.73	102.81	306.25	—	—	—	RDX120N50FU6
	600	1Ω	10	7	28	30	2SK2740-ND	2.58	53.69	180.39	—	—	—	2SK2740
		1.8Ω	10	4	16	30	2SK2792-ND	2.69	56.13	188.58	—	—	—	2SK2792
		2.1Ω	10	4.5	18	35	RDX045N60FU6-ND ***NEW!***	2.40	50.00	168.00	—	—	—	RDX045N60FU6
		1.2Ω	10	6	24	40	RDX060N60FU6-ND ***NEW!***	2.97	64.63	192.50	—	—	—	RDX060N60FU6
		0.65Ω	10	10	40	45	RDX100N60FU6-ND ***NEW!***	4.73	102.81	306.25	—	—	—	RDX100N60FU6
TSMT-3	30	74mΩ	4.5	2.5	10	1	RSR025N03TLCT-ND	.65	12.90	38.70	RSR025N03TLTR-ND	3,000	194.00/M	RSR025N03TL
	30	66mΩ	4.5	2.5	—		RTR025N03TLCT-ND	.50	10.00	30.00	RTR025N03TLTR-ND	3,000	150.00/M	RTR025N03TL
	30	66mΩ	2.5	4	16		RTR040N03TLCT-ND ***NEW!***	.50	10.00	30.00	RTR040N03TLTR-ND ***NEW!***	3,000	150.00/M	RTR040N03TL
	45	250mΩ	2.5	2	8		RTR020N05TLCT-ND ***NEW!***	.81	16.20	48.60	RTR020N05TLTR-ND ***NEW!***	3,000	257.00/M	RTR020N05TL
TSMT-5	30	71mΩ	4.5	2	8	1	QS5U12CT-ND	.70	14.00	42.00	QS5U12TR-ND	3,000	210.00/M	QS5U12TR
						1	QS5U13CT-ND	.64	12.70	38.10	QS5U13TR-ND	3,000	191.00/M	QS5U13TR
						1	QS5U16CT-ND	.64	12.70	38.10	QS5U16TR-ND	3,000	191.00/M	QS5U16TR
						1	QS5U17CT-ND	.72	14.40	43.20	QS5U17TR-ND	3,000	216.00/M	QS5U17TR
						1.25	QS5K2CT-ND	.50	10.00	30.00	QS5K2TR-ND	3,000	150.00/M	QS5K2TR
	30	225mΩ	4.0	2	8	1.25	QS5U33TRCT-ND ***NEW!***	.69	13.77	41.31	QS5U33TRTR-ND ***NEW!***	3,000	218.00/M	QS5U33TR
TSMT-6	12	—	—	2A	4	1.25	QSX5CT-ND	.60	12.00	36.00	QSX5TR-ND	3,000	180.00/M	QSX5TR
	30	89mΩ	4.5	2	—	1.25	RTQ020N03CT-ND	.45	9.00	27.00	RTQ020N03TR-ND	3,000	135.00/M	RTQ020N03TR
		38mΩ	4.5	3.5	—		RTQ035N03CT-ND	.68	13.50	40.50	RTQ035N03TR-ND	3,000	203.00/M	RTQ035N03TR
		30mΩ	4.5	4.5	18		RTQ045N03CT-ND	.69	13.86	41.58	RTQ045N03TR-ND	3,000	219.00/M	RTQ045N03TR
		94mΩ	4	1.0	14		RSQ035N03CT-ND ***NEW!***	.60	12.00	36.00	RSQ035N03TR-ND ***NEW!***	3,000	180.00/M	RSQ035N03TR
		36mΩ	4.5	4.5	—		RSQ045N03CT-ND	.75	15.03	45.09	RSQ045N03TR-ND	3,000	238.00/M	RSQ045N03TR
		—	—	1.5A	3		QSX6CT-ND	.60	12.00	36.00	QSX6TR-ND	3,000	180.00/M	QSX6TR
TUMT-3	30	170mΩ	4.5	1.5	—	0.8	RTF015N03TLCT-ND	.58	11.50	34.50	RTF015N03TLTR-ND	3,000	173.00/M	RTF015N03TL
		48mΩ	4.5	2.5			RTF025N03TLCT-ND	.74	14.70	44.10	RTF025N03TLTR-ND	3,000	221.00/M	RTF025N03TL
		170mΩ	4	1.4			RSF014N03TLCT-ND	.58	11.50	34.50	RSF014N03TLTR-ND	3,000	173.00/M	RSF014N03TL
TUMT-6	30	35mΩ	4.5	3.5	—	1	RTL035N03CT-ND	.58	11.60	34.80	RTL035N03TR-ND	3,000	174.00/M	RTL035N03TR
	20	310mΩ	1.8	1.5	3.0	0.8	RUF015N02TLCT-ND ***NEW!***	.52	10.00	28.80	RUF015N02TLTR-ND ***NEW!***	3,000	136.00/M	RUF015N02TL
	12	—	—	2	4	1	US6X5CT-ND	.70	14.00	42.00	US6X5TR-ND	3,000	210.00/M	US6X5TR
	30	—	—	1.5	3	1	US6X6CT-ND	.70	14.00	42.00	US6X6TR-ND	3,000	210.00/M	US6X6TR
VMT-3	30	5Ω	4	0.1	0.4	0.15	2SK3541T2LCT-ND	.38	7.03	19.80	2SK3541T2LTR-ND	8,000	77.00/M	2SK3541T2L
EMT-6	20	1.4Ω	8	.3	.6	.15	EM6K6T2RCT-ND ***NEW!***	.42	8.13	23.40	EM6K6T2RTR-ND ***NEW!***	8,000	104.00/M	EM6K6T2R
EMT3	20	—	8	0.3	—	0.15	RUE003N02TLCT-ND ***NEW!***	.44	7.50	20.80	RUE003N02TLTR-ND ***NEW!***	3,000	80.00/M	RUE003N02TL
Dual N-Channel														
8-SOIC	30	52mΩ	4.5	5	20	2	SP8K1TBCT-ND	.75	15.03	45.09	SP8K1TBTR-ND	2,500	238.00/M	SP8K1TB
		30mΩ	4.5	6	24		SP8K2TBCT-ND	.87	17.37	52.11	SP8K2TBTR-ND	2,500	275.00/M	SP8K2TB
		23mΩ	4.5	7	28		SP8K3TBCT-ND	1.44	31.28	96.25	SP8K3TBTR-ND	2,500	512.00/M	SP8K3TB
		16mΩ	4.5	9	36		SP8K4TBCT-ND	1.44	31.28	96.25	SP8K4TBTR-ND	2,500	512.00/M	SP8K4TB
		93mΩ	4.5	3.5	14		SP8K5TBCT-ND	1.04	20.79	62.37	SP8K5TBTR-ND	2,500	329.00/M	SP8K5TB
EMT-6	30	5mΩ	4	0.1	0.4	0.15	EM6K1T2RCT-ND	.55	10.50	30.24	EM6K1T2RTR-ND	8,000	134.00/M	EM6K1T2R
SOT-353	30	5Ω	4	0.1	0.2	0.15	UM5K1NCT-ND	.42	8.13	23.40	UM5K1NTR-ND	3,000	111.00/M	UM5K1NTR
SOT-363	30	5Ω	4	0.1	0.2	0.15	UM6K1NCT-ND	.46	8.44	23.76	UM6K1NTR-ND	3,000	97.00/M	UM6K1NTR
							UM6K1NTNCT-ND	.46	8.44	23.76	UM6K1NTNTR-ND	3,000	97.00/M	UM6K1NTN
SOT-457	60	2.8Ω	4	0.2	0.8	0.2	SM6K2T110CT-ND	.50	9.63	27.72	SM6K2T110TR-ND	3,000	131.00/M	SM6K2T110
TSMT-6	30	180mΩ	4.5	1	4	1.25	QS6K1CT-ND	.71	14.20	42.60	QS6K1TR-ND	3,000	213.00/M	QS6K1TR
TUMT-6	30	170mΩ	4.5	1.5	—	1	US6K1CT-ND	.63	12.50	37.50	US6K1TR-ND	3,000	188.00/M	US6K1TR
		170mΩ	10	1.4			US6K2CT-ND	.68	13.50	40.50	US6K2TR-ND	3,000	203.00/M	US6K2TR
Dual N and P-Channel														
8-SOIC	30/-30	23mΩ	4.5	7/4.5	28/18	2	SP8M10TBCT-ND	1.28	27.63	85.00	SP8M10TBTR-ND	2,500	452.00/M	SP8M10TB
		52mΩ	4.5	5/4.5	20/18		SP8M3TBCT-ND	1.13	24.38	75.00	SP8M3TBTR-ND	2,500	399.00/M	SP8M3TB
		16mΩ	4.5	9/7	36/28		SP8M4TBCT-ND	1.84	39.81	122.50	SP8M4TBTR-ND	2,500	652.00/M	SP8M4TB
		30mΩ	4.5	6/7	24/28		SP8M5TBCT-ND	1.58	34.13	105.00	SP8M5TBTR-ND	2,500	559.00/M	SP8M5TB
		52mΩ	4.5	5/3.5	20/14		SP8M6TBCT-ND	1.03	22.34	68.75	SP8M6TBTR-ND	2,500	366.00/M	SP8M6TB
		52mΩ	4.5	5/7	20/28		SP8M7TBCT-ND	1.46	31.69	97.50	SP8M7TBTR-ND	2,500	519.00/M	SP8M7TB
		30mΩ	4.5	6/4.5	24/18		SP8M8TBCT-ND	1.22	26.41	81.25	SP8M8TBTR-ND	2,500	432.00/M	SP8M8TB
		16mΩ	4.5	9/5	36/20		SP8M9TBCT-ND	1.63	35.34	108.75	SP8M9TBTR-ND	2,500	579.00/M	SP8M9TB

* Maximum

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Mosfets *(Cont.)*

Package	VDSS (V)	Typ. RDS (on) @	VGS (V)	ID (A)	IDP (A)	PD Max. (W)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Rohm Part No.
TSMT-6	30/-20	170mΩ	4.5	1.5/1.5	6/6	1.25	QS6M3CT-ND	.55	11.00	33.00	QS6M3TR-ND	3,000	165.00/M	QS6M3TR
							QS6M4CT-ND	.63	12.50	37.50	QS6M4TR-ND	3,000	188.00/M	QS6M4TR
TUMT-6	30/-20	250mΩ	4.5	1.4/1	5.6/4	1	US6M1CT-ND	.70	14.00	42.00	US6M1TR-ND	3,000	210.00/M	US6M1TR
	20/-20	170/280mΩ	4.5	1.5/1	—	1	US6M2CT-ND	.70	14.00	42.00	US6M2TR-ND	3,000	210.00/M	US6M2TR
P-Channel														
8-SOIC	30	68mΩ	4.5	4	16	2	RSS040P03TBCT-ND	1.10	21.96	65.88	RSS040P03TBTR-ND	2,500	348.00/M	RSS040P03TB
		47mΩ	4.5	5	20		RSS050P03TBCT-ND	1.01	21.94	67.50	RSS050P03TBTR-ND	2,500	359.00/M	RSS050P03TB
		22mΩ	4.5	7.5	30		RSS075P03TBCT-ND	1.73	37.54	115.50	RSS075P03TBTR-ND	2,500	614.00/M	RSS075P03TB
		15mΩ	4.5	9	36		RSS090P03TBCT-ND	1.58	32.88	110.46	RSS090P03TBTR-ND	2,500	684.00/M	RSS090P03TB
8-SOP	45	39mΩ	4	7	28	2	RSS060P05FU6TBCT-ND ***NEW!***	1.65	35.75	110.00	RSS060P05FU6TBTR-ND ***NEW!***	2,500	585.00/M	RSS060P05FU6TB
							RSS070P05FU6TBCT-ND ***NEW!***	1.68	35.00	117.60	RSS070P05FU6TBTR-ND ***NEW!***	2,500	728.00/M	RSS070P05FU6TB
SOT-323	20	1.1Ω	4	0.2	—	—	RTU002P02T106CT-ND	.51	9.88	28.44	RTU002P02T106TR-ND	3,000	134.00/M	RTU002P02T106
	30	0.9Ω	10	0.2	—	—	RSU002P03T106CT-ND	.40	7.63	21.96	RSU002P03T106TR-ND	3,000	104.00/M	RSU002P03T106
SOT-416	20	1.1Ω	4	0.2	—	—	RTE002P02TLCT-ND	.50	9.63	27.72	RTE002P02TLTR-ND	3,000	131.00/M	RTE002P02TL
	30	1.6Ω	4	0.2	—	0.15	RSE002P03TLCT-ND	.51	9.75	28.08	RSE002P03TLTR-ND	3,000	133.00/M	RSE002P03TL
TSMT-3	20	100mΩ	4.5	2	8	1	RTR020P02TLCT-ND	.61	12.20	36.60	RTR020P02TLTR-ND	3,000	183.00/M	RTR020P02TL
		70mΩ	4.5	2.5	10	1	RTR025P02TLCT-ND	.50	10.00	30.00	RTR025P02TLTR-ND	3,000	150.00/M	RTR025P02TL
		55mΩ	4.5	3	12	1	RTR030P02TLCT-ND	.57	10.88	31.32	RTR030P02TLTR-ND	3,000	148.00/M	RTR030P02TL
	30	170mΩ	4.5	1.5	—	1	RSR015P03TLCT-ND	.56	11.20	33.60	RSR015P03TLTR-ND	3,000	168.00/M	RSR015P03TL
		135mΩ	4.5	2			RSR020P03TLCT-ND	.62	12.30	36.90	RSR020P03TLTR-ND	3,000	185.00/M	RSR020P03TL
		100mΩ	4.5	2.5			RSR025P03TLCT-ND	.67	13.30	39.90	RSR025P03TLTR-ND	3,000	200.00/M	RSR025P03TL
TSMT-5	20	160mΩ	4.5	1.5	6	1	QS5U21CT-ND	.68	13.68	41.04	QS5U21TR-ND	3,000	217.00/M	QS5U21TR
		160mΩ	4.5	1.5	6	1	QS5U23CT-ND	.66	13.20	39.60	QS5U23TR-ND	3,000	198.00/M	QS5U23TR
		160mΩ	4.5	1.5	6	1	QS5U26CT-ND	.66	13.20	39.60	QS5U26TR-ND	3,000	198.00/M	QS5U26TR
		160mΩ	4.5	1.5	6	1	QS5U27CT-ND	.69	13.77	41.31	QS5U27TR-ND	3,000	218.00/M	QS5U27TR
		90mΩ	4.5	2	8	0.9	QS5U28CT-ND	.71	14.13	42.39	QS5U28TR-ND	3,000	224.00/M	QS5U28TR
TSMT-6	12	—	—	2	4	1.25	QST6CT-ND	.60	12.00	36.00	QST6TR-ND	3,000	180.00/M	QST6TR
				1.5	3	0.5	QST7CT-ND	.60	12.00	36.00	QST7TR-ND	3,000	180.00/M	QST7TR
	20	155mΩ	4.5	1.5	6	1.25	QS6U22CT-ND	.64	12.80	38.40	QS6U22TR-ND	3,000	192.00/M	QS6U22TR
		72mΩ	4.5	2.5	10		RTQ025P02CT-ND	.58	11.60	34.80	RTQ025P02TR-ND	3,000	174.00/M	RTQ025P02TR
		60mΩ	4.5	3	12		RTQ030P02CT-ND	.52	10.30	30.90	RTQ030P02TR-ND	3,000	155.00/M	RTQ030P02TR
		50mΩ	4.5	3.5	17.5		RTQ035P02CT-ND	.58	11.60	34.80	RTQ035P02TR-ND	3,000	174.00/M	RTQ035P02TR
		35mΩ	4.5	4	16		RTQ040P02CT-ND	.69	13.70	41.10	RTQ040P02TR-ND	3,000	206.00/M	RTQ040P02TR
	30	500mΩ	4.5	1	2	1	QS6U24CT-ND	.64	12.70	38.10	QS6U24TR-ND	3,000	191.00/M	QS6U24TR
		120mΩ	4.5	2.5	10	1.25	RSQ025P03CT-ND	.74	14.80	44.40	RSQ025P03TR-ND	3,000	222.00/M	RSQ025P03TR
		90mΩ	4.5	3	12	1.25	RSQ030P03CT-ND	.69	13.86	41.58	RSQ030P03TR-ND	3,000	219.00/M	RSQ030P03TR
		65mΩ	4.5	3.5	14	1.25	RSQ035P03CT-ND	.69	13.86	41.58	RSQ035P03TR-ND	3,000	219.00/M	RSQ035P03TR
TUMT-3	20	630mΩ	2.5	1	4	0.8	RSF010P03TLCT-ND ***NEW!***	.60	12.00	36.00	RSF010P03TLTR-ND ***NEW!***	3,000	180.00/M	RSF010P03TL
		280mΩ	4.5	1	4		RTF010P02TLCT-ND	.60	12.00	36.00	RTF010P02TLTR-ND	3,000	180.00/M	RTF010P02TL
		100mΩ	4.5	1.5	6		RTF015P02TLCT-ND	.71	14.13	42.39	RTF015P02TLTR-ND	3,000	224.00/M	RTF015P02TL
		60mΩ	4.5	2	8		RTF020P02TLCT-ND	.74	14.76	44.28	RTF020P02TLTR-ND	3,000	234.00/M	RTF020P02TL
TUMT-6	20	100mΩ	4.5	2	8	1	RTL020P02CT-ND	.70	14.04	42.12	RTL020P02TR-ND	3,000	222.00/M	RTL020P02TR
		50mΩ	4.5	3	12		RTL030P02CT-ND	.80	15.93	47.79	RTL030P02TR-ND	3,000	252.00/M	RTL030P02TR
	30	210mΩ	2.5	2	8	1	RSL020P03TRCT-ND ***NEW!***	.60	12.00	36.00	RSL020P03TRTR-ND ***NEW!***	3,000	180.00/M	RSL020P03TR
	30	—	—	2	4	1	US6T6CT-ND	.70	14.00	42.00	US6T6TR-ND	3,000	210.00/M	US6T6TR
				1.5	3		US6T7CT-ND	.70	14.00	42.00	US6T7TR-ND	3,000	210.00/M	US6T7TR
VMT-3	20	1.1Ω	4	0.2	—	0.15	RTM002P02T2LCT-ND	.55	10.63	30.60	RTM002P02T2LTR-ND	8,000	136.00/M	RTM002P02T2L
	30	0.9Ω	10	0.2	—	0.15	RSM002P03T2LCT-ND	.56	10.75	30.96	RSM002P03T2LTR-ND	8,000	138.00/M	RSM002P03T2L
Dual P-Channel														
8-SOIC	30	40mΩ	4.5	5	20	2	SP8J1TBCT-ND	1.81	37.69	126.63	SP8J1TBTR-ND	2,500	784.00/M	SP8J1TB
		57mΩ	4.5	4.5	18		SP8J2TBCT-ND	1.49	32.34	99.50	SP8J2TBTR-ND	2,500	529.00/M	SP8J2TB
		100mΩ	4.5	3.5	14		SP8J3TBCT-ND	1.54	33.39	102.75	SP8J3TBTR-ND	2,500	547.00/M	SP8J3TB
		270mΩ	4.5	2	8		SP8J4TBCT-ND	1.20	26.08	80.25	SP8J4TBTR-ND	2,500	427.00/M	SP8J4TB
		25mΩ	4.5	7	28		SP8J5TBCT-ND	2.93	60.94	204.75	SP8J5TBTR-ND	2,500	1268.00/M	SP8J5TB
TSMT-6	20	155mΩ	4.5	1.5	6	1.25	QS6J1CT-ND	.66	13.10	39.30	QS6J1TR-ND	3,000	197.00/M	QS6J1TR
							QS6J3CT-ND	.66	13.10	39.30	QS6J3TR-ND	3,000	197.00/M	QS6J3TR
TUMT-6	20	280mΩ	4.5	1	4	1	US6J2CT-ND	.70	14.00	42.00	US6J2TR-ND	3,000	210.00/M	US6J2TR

Package	VDSS (V)	Typ. RDS (on) @	VGS (V)	ID (A)	IDP (A)	VRM (V)	IF (A)	PD Max. (W)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Rohm Part No.
N-Channel with Diode																
TUMT-5	30	170mΩ	4.5	1.5	—	—	—	1	US5U1CT-ND	.68	13.50	40.50	US5U1TR-ND	3,000	203.00/M	US5U1TR
		250mhΩ	4.5	1.4					US5U2CT-ND	.68	13.50	40.50	US5U2TR-ND	3,000	203.00/M	US5U2TR
		340mΩ	2.5	1.5	6.0	25	0.7	0.7	US5U3CT-ND ***NEW!***	.68	13.50	40.50	US5U3TR-ND ***NEW!***	3,000	203.00/M	US5U3TR
P-Channel with Diode																
TUMT-5	20	280mΩ	4.5	1	4	25	0.7	1	US5U29CT-ND	.68	13.50	40.50	US5U29TR-ND	3,000	214.00/M	US5U29TR
							0.5		US5U30CT-ND	.70	14.00	42.00	US5U30TR-ND	3,000	210.00/M	US5U30TR

***** Maximum

Transistors

Multiple pinout confugurations available, see Digi-Key website for data sheet

Dimensions in mm

SOT-89

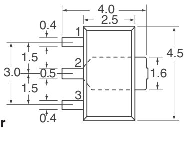

1. Base
2. Collector
3. Emitter

SOT-323

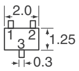

1. Emitter
2. Base
3. Collector

SOT-346

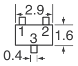

1. Emitter
2. Base
3. Collector

SOT-416

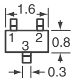

1. Emitter
2. Base
3. Collector

VMT-3

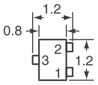

1. Base
2. Emitter
3. Collector

SOT-353

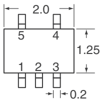

SOT-363

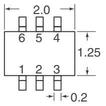

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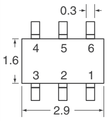

SMT-5

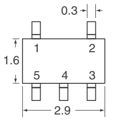

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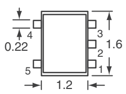

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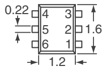

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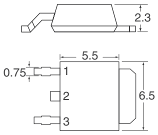

1. Base
2. Collector
3. Emitter

SOT-23

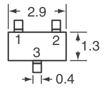

1. Emitter
2. Base
3. Collector

TSMT-3

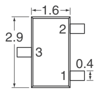

1. Base
2. Emitter
3. Collector

SC-72/SPT

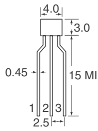

1. Emitter
2. Collector
3. Base

ATV

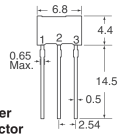

1. Emitter
2. Collector
3. Base

TO-220FP

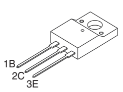

TUMT-3

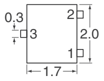

1. Gate
2. Source
3. Drain

Digital Transistors

Package	VCEO (V)	IO (mA)	Gain (HFE)	R1 (kΩ)	Ω Ratio R2/R1	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
							1	25	100		Qty.	Pricing	
NPN													
SOT-89	60	1A	300	13	—	DTDG14GPT100CT-ND	.47	9.00	25.92	DTDG14GPT100TR-ND	1,000	130.00	DTDG14GPT100
	60	1A	300	2.86	13	DTDG23YPT100CT-ND	.55	10.50	30.24	DTDG23YPT100TR-ND	1,000	151.00	DTDG23YPT100
SOT-323	50	100	33	1.3	12	DTC113ZUAT106CT-ND	.49	7.25	18.85	DTC113ZUAT106TR-ND	3,000	68.00/M	DTC113ZUAT106
	50	500	82	1.3	12	DTD113ZUT106CT-ND	.55	10.50	30.24	DTD113ZUT106TR-ND	3,000	143.00/M	DTD113ZUT106
	50	100	30	13	1.2	DTC114EUAT106CT-ND	.43	6.25	16.25	DTC114EUAT106TR-ND	3,000	59.00/M	DTC114EUAT106
	50	100	30	13	—	DTC114GUAT106CT-ND	.34	5.81	16.12	DTC114GUAT106TR-ND	3,000	62.00/M	DTC114GUAT106
	50	100	100	13	—	DTC114TUAT106CT-ND	.36	5.25	13.65	DTC114TUAT106TR-ND	3,000	49.00/M	DTC114TUAT106
	50	100	24	13	0.57	DTC114WUAT106CT-ND	.43	7.31	20.28	DTC114WUAT106TR-ND	3,000	78.00/M	DTC114WUAT106
	50	100	68	13	5.7	DTC114YUAT106CT-ND	.43	6.25	16.25	DTC114YUAT106TR-ND	3,000	59.00/M	DTC114YUAT106
	50	20	82	130	1.2	DTC115EUAT106CT-ND	.43	6.25	16.25	DTC115EUAT106TR-ND	3,000	59.00/M	DTC115EUAT106
	50	100	20	2.86	1.2	DTC123EUAT106CT-ND	.43	7.31	20.28	DTC123EUAT106TR-ND	3,000	78.00/M	DTC123EUAT106
	50	100	80	2.86	26	DTC123JUAT106CT-ND	.43	6.25	16.25	DTC123JUAT106TR-ND	3,000	59.00/M	DTC123JUAT106
	50	100	33	2.86	5.5	DTC123YUAT106CT-ND	.43	7.31	20.28	DTC123YUAT106TR-ND	3,000	78.00/M	DTC123YUAT106
	50	30	56	28.6	1.2	DTC124EUAT106CT-ND	.43	6.25	16.25	DTC124EUAT106TR-ND	3,000	59.00/M	DTC124EUAT106
	50	50	68	28.6	2.6	DTC124XUAT106CT-ND	.43	7.31	20.28	DTC124XUAT106TR-ND	3,000	78.00/M	DTC124XUAT106
	50	100	20	6.11	1.2	DTC143EUAT106CT-ND	.37	5.50	14.30	DTC143EUAT106TR-ND	3,000	52.00/M	DTC143EUAT106
	50	100	30	6.11	2.6	DTC143XUAT106CT-ND	.43	6.25	16.25	DTC143XUAT106TR-ND	3,000	59.00/M	DTC143XUAT106
	50	100	80	6.11	12	DTC143ZUAT106CT-ND	.43	6.25	16.25	DTC143ZUAT106TR-ND	3,000	59.00/M	DTC143ZUAT106
	50	100	68	61.1	1.2	DTC144EUAT106CT-ND	.43	6.25	16.25	DTC144EUAT106TR-ND	3,000	59.00/M	DTC144EUAT106
	50	100	68	61.1	—	DTC144GUAT106CT-ND	.43	7.31	20.28	DTC144GUAT106TR-ND	3,000	78.00/M	DTC144GUAT106
	50	100	100	61.1	—	DTC144TUAT106CT-ND	.43	7.31	20.28	DTC144TUAT106TR-ND	3,000	78.00/M	DTC144TUAT106
	50	30	56	61.1	0.57	DTC144WUAT106CT-ND	.43	6.25	16.25	DTC144WUAT106TR-ND	3,000	59.00/M	DTC144WUAT106
	15	600	100	13	—	DTC314TUT106CT-ND	.55	10.50	30.24	DTC314TUT106TR-ND	3,000	143.00/M	DTC314TUT106
	15	600	100	2.86	—	DTC323TUT106CT-ND	.55	10.50	30.24	DTC323TUT106TR-ND	3,000	143.00/M	DTC323TUT106
	20	600	2,700	13	—	DTC614TUT106CT-ND ***NEW!***	.40	7.34	20.68	DTC614TUT106TR-ND ***NEW!***	3,000	85.00/M	DTC614TUT106
SOT-346	50	500	33	1.3	1.2	DTD113EKT146CT-ND	.42	7.66	21.56	DTD113EKT146TR-ND	3,000	88.00/M	DTD113EKT146
	50	100	33	1.3	12	DTC113ZKAT146CT-ND	.36	5.25	13.65	DTC113ZKAT146TR-ND	3,000	49.00/M	DTC113ZKAT146
	50	500	56	1.3	12	DTD113ZKT146CT-ND	.46	7.88	21.84	DTD113ZKT146TR-ND	3,000	84.00/M	DTD113ZKT146
	50	100	30	13	1.2	DTC114EKAT146CT-ND	.34	5.00	13.00	DTC114EKAT146TR-ND	3,000	47.00/M	DTC114EKAT146
	50	500	56	13	1.2	DTD114EKT146CT-ND	.40	7.63	21.96	DTD114EKT146TR-ND	3,000	104.00/M	DTD114EKT146
	50	100	30	13	—	DTC114GKAT146CT-ND	.34	5.81	16.12	DTC114GKAT146TR-ND	3,000	62.00/M	DTC114GKAT146
	50	500	56	13	—	DTD114GKT146CT-ND	.50	9.63	27.72	DTD114GKT146TR-ND	3,000	131.00/M	DTD114GKT146
	50	100	600	13	—	DTC114TKAT146CT-ND	.31	4.50	11.70	DTC114TKAT146TR-ND	3,000	42.00/M	DTC114TKAT146
	50	100	24	13	0.57	DTC114WKAT146CT-ND	.39	6.56	18.20	DTC114WKAT146TR-ND	3,000	70.00/M	DTC114WKAT146
	50	100	68	13	5.7	DTC114YKAT146CT-ND	.36	5.25	13.65	DTC114YKAT146TR-ND	3,000	49.00/M	DTC114YKAT146
	50	100	82	130	1.2	DTC115EKAT146CT-ND	.36	5.25	13.65	DTC115EKAT146TR-ND	3,000	49.00/M	DTC115EKAT146
	50	100	20	2.86	1.2	DTC123EKAT146CT-ND	.36	5.25	13.65	DTC123EKAT146TR-ND	3,000	49.00/M	DTC123EKAT146
	50	500	39	2.86	1.2	DTD123EKT146CT-ND	.40	7.63	21.96	DTD123EKT146TR-ND	3,000	104.00/M	DTD123EKT146
	50	100	80	2.86	26	DTC123JKAT146CT-ND	.34	5.00	13.00	DTC123JKAT146TR-ND	3,000	47.00/M	DTC123JKAT146
	50	500	100	2.86	—	DTD123TKT146CT-ND	.50	9.63	27.72	DTD123TKT146TR-ND	3,000	131.00/M	DTD123TKT146
	50	100	33	2.86	5.5	DTC123YKAT146CT-ND	.36	5.25	13.65	DTC123YKAT146TR-ND	3,000	49.00/M	DTC123YKAT146
	50	500	56	2.86	5.5	DTD123YKT146CT-ND	.40	7.63	21.96	DTD123YKT146TR-ND	3,000	104.00/M	DTD123TKT146
	50	100	56	28.6	1.2	DTC124EKAT146CT-ND	.36	5.25	13.65	DTC124EKAT146TR-ND	3,000	49.00/M	DTC124EKAT146
	50	100	100	28.6	—	DTC124TKAT146CT-ND	.36	5.25	13.65	DTC124TKAT146TR-ND	3,000	49.00/M	DTC124TKAT146
	50	100	68	28.6	2.6	DTC124XKAT146CT-ND	.36	5.25	13.65	DTC124XKAT146TR-ND	3,000	49.00/M	DTC124XKAT146
	50	100	20	6.11	1.2	DTC143EKAT146CT-ND	.34	5.00	13.00	DTC143EKAT146TR-ND	3,000	47.00/M	DTC143EKAT146
	50	500	47	6.11	1.2	DTD143EKT146CT-ND	.50	9.63	27.72	DTD143EKT146TR-ND	3,000	131.00/M	DTD143EKT1460
	50	100	30	6.11	2.6	DTC143XKAT146CT-ND	.36	5.25	13.65	DTC143XKAT146TR-ND	3,000	49.00/M	DTC143XKAT146
	50	100	80	6.11	12	DTC143ZKAT146CT-ND	.36	5.25	13.65	DTC143ZKAT146TR-ND	3,000	49.00/M	DTC143ZKAT146
	50	100	68	61.1	1.2	DTC144EKAT146CT-ND	.36	5.25	13.65	DTC144EKAT146TR-ND	3,000	49.00/M	DTC144EKAT146
	50	100	68	61.1	—	DTC144GKAT146CT-ND	.39	6.56	18.20	DTC144GKAT146TR-ND	3,000	70.00/M	DTC144GKAT146
	50	100	100	61.1	—	DTC144TKAT146CT-ND	.36	5.25	13.65	DTC144TKAT146TR-ND	3,000	49.00/M	DTC144TKAT146
	50	30	33	61.1	0.26	DTC144VKAT146CT-ND	.39	6.56	18.20	DTC144VKAT146TR-ND	3,000	70.00/M	DTC144VKAT146
	50	100	56	61.1	0.57	DTC144WKAT146CT-ND	.39	6.56	18.20	DTC144WKAT146TR-ND	3,000	70.00/M	DTC144WKAT146
	50	600	100	13	—	DTC314TKT146CT-ND	.40	7.63	21.96	DTC314TKT146TR-ND	3,000	104.00/M	DTC314TKT146
	15	600	600	2.86	—	DTC323TKT146CT-ND	.47	8.06	22.36	DTC323TKT146TR-ND	3,000	86.00/M	DTC323TKT146
	15	600	100	6.11	—	DTC343TKT146CT-ND	.50	9.63	27.72	DTC343TKT146TR-ND	3,000	131.00/M	DTC343TKT146
	20	600	2,700	13	—	DTC614TKT146CT-ND ***NEW!***	.44	7.50	20.80	DTC614TKT146TR-ND ***NEW!***	3,000	80.00/M	DTC614TKT146
SOT-416	50	50	30	13	1.2	DTC114EETLCT-ND	.36	5.25	13.65	DTC114EETLTR-ND	3,000	49.00/M	DTC114EETL
	50	100	100	13	—	DTC114TETLCT-ND	.37	5.50	14.30	DTC114TETLTR-ND	3,000	52.00/M	DTC114TETL
	50	100	24	13	0.57	DTC114WETLCT-ND	.47	8.06	22.36	DTC114WETLTR-ND	3,000	86.00/M	DTC114WETL
	50	70	68	13	5.7	DTC114YETLCT-ND	.43	6.25	16.25	DTC114YETLTR-ND	3,000	59.00/M	DTC114YETL
	50	20	82	130	1.2	DTC115EETLCT-ND	.43	6.25	16.25	DTC115EETLTR-ND	3,000	59.00/M	DTC115EETL
	50	100	20	2.86	1.2	DTC123EETLCT-ND	.43	6.25	16.25	DTC123EETLTR-ND	3,000	59.00/M	DTC123EETL
	50	100	80	2.86	26	DTC123JETLCT-ND	.43	6.25	16.25	DTC123JETLTR-ND	3,000	59.00/M	DTC123JETL
	50	100	33	2.86	5.5	DTC123YETLCT-ND	.47	8.06	22.36	DTC123YETLTR-ND	3,000	86.00/M	DTC123YETL
	50	100	56	28.6	1.2	DTC124EETLCT-ND	.43	6.25	16.25	DTC124EETLTR-ND	3,000	59.00/M	DTC124EETL
	50	100	100	28.6	—	DTC124TETLCT-ND	.47	8.06	22.36	DTC124TETLTR-ND	3,000	86.00/M	DTC124TETL
	50	50	68	28.6	2.6	DTC124XETLCT-ND	.43	6.25	16.25	DTC124XETLTR-ND	3,000	59.00/M	DTC124XETL
	50	100	30	6.11	1.2	DTC143EETLCT-ND	.43	6.25	16.25	DTC143EETLTR-ND	3,000	59.00/M	DTC143EETL
	50	100	30	6.11	2.6	DTC143XETLCT-ND	.43	6.25	16.25	DTC143XETLTR-ND	3,000	59.00/M	DTC143XETL
	50	100	80	6.11	12	DTC143ZETLCT-ND	.43	6.25	16.25	DTC143ZETLTR-ND	3,000	59.00/M	DTC143ZETL
	50	100	68	61.1	1.2	DTC144EETLCT-ND	.43	6.25	16.25	DTC144EETLTR-ND	3,000	59.00/M	DTC144EETL
	50	100	100	61.1	—	DTC144TETLCT-ND	.43	6.25	16.25	DTC144TETLTR-ND	3,000	59.00/M	DTC144TETL
	50	30	56	61.1	0.57	DTC144WETLCT-ND	.47	8.06	22.36	DTC144WETLTR-ND	3,000	86.00/M	DTC144WETL

(Continued)

Digital Transistors *(Cont.)*

Package	VCEO	IO	Gain	R1	Ω Ratio	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		Rohm
	(V)	(mA)	(HFE)	(kΩ)	R2/R1	Part No.	1	25	100	Part No.	Qty.	Pricing	Part No.
VMT-3	50	50	30	13	1.2	DTC114EMT2LCT-ND	.37	6.38	17.68	DTC114EMT2LTR-ND	8,000	61.00/M	DTC114EMT2L
	50	100	100	13	—	DTC114TMT2LCT-ND	.37	6.38	17.68	DTC114TMT2LTR-ND	8,000	61.00/M	DTC114TMT2L
	50	70	68	13	5.7	DTC114YMT2LCT-ND	.43	7.31	20.28	DTC114YMT2LTR-ND	8,000	70.00/M	DTC114YMT2L
	50	20	82	130	1.2	DTC115EMT2LCT-ND	.43	7.31	20.28	DTC115EMT2LTR-ND	8,000	70.00/M	DTC115EMT2L
	50	100	20	2.86	1.2	DTC123EMT2LCT-ND	.43	7.31	20.28	DTC123EMT2LTR-ND	8,000	70.00/M	DTC123EMT2L
	50	100	80	2.86	26	DTC123JMT2LCT-ND	.44	6.50	16.90	DTC123JMT2LTR-ND	8,000	52.00/M	DTC123JMT2L
	50	30	56	28.6	1.2	DTC124EMT2LCT-ND	.37	6.38	17.68	DTC124EMT2LTR-ND	8,000	61.00/M	DTC124EMT2L
	50	50	68	28.6	2.6	DTC124XMT2LCT-ND	.39	6.56	18.20	DTC124XMT2LTR-ND	8,000	63.00/M	DTC124XMT2L
	50	100	30	6.11	1.2	DTC143EMT2LCT-ND	.49	7.25	18.85	DTC143EMT2LTR-ND	8,000	58.00/M	DTC143EMT2L
	50	100	30	6.11	2.6	DTC143XMT2LCT-ND	.34	5.00	13.00	DTC143XMT2LTR-ND	8,000	40.00/M	DTC143XMT2L
	50	100	80	6.11	12	DTC143ZMT2LCT-ND	.94	20.31	62.50	DTC143ZMT2LTR-ND	8,000	319.00/M	DTC143ZMT2L
	50	30	68	61.1	1.2	DTC144EMT2LCT-ND	.37	6.38	17.68	DTC144EMT2LTR-ND	8,000	61.00/M	DTC144EMT2L
PNP													
SOT-323	50	50	30	13	1.2	DTA114EUAT106CT-ND	.36	5.25	13.65	DTA114EUAT106TR-ND	3,000	49.00/M	DTA114EUAT106
	50	100	33	1.3	12	DTA113ZUAT106CT-ND	.49	7.25	18.85	DTA113ZUAT106TR-ND	3,000	68.00/M	DTA113ZUAT106
	50	100	30	13	—	DTA114GUAT106CT-ND	.26	3.75	9.75	DTA114GUAT106TR-ND	3,000	35.00/M	DTA114GUAT106
	50	100	100	13	—	DTA114TUAT106CT-ND	.43	6.25	16.25	DTA114TUAT106TR-ND	3,000	59.00/M	DTA114TUAT106
	50	100	24	13	0.57	DTA114WUAT106CT-ND	.43	7.31	20.28	DTA114WUAT106TR-ND	3,000	78.00/M	DTA114WUAT106
	50	70	68	13	5.7	DTA114YUAT106CT-ND	.37	5.50	14.30	DTA114YUAT106TR-ND	3,000	52.00/M	DTA114YUAT106
	50	20	82	130	1.2	DTA115EUAT106CT-ND	.43	7.31	20.28	DTA115EUAT106TR-ND	3,000	78.00/M	DTA115EUAT106
	50	100	20	2.86	1.2	DTA123EUAT106CT-ND	.43	6.25	16.25	DTA123EUAT106TR-ND	3,000	59.00/M	DTA123EUAT106
	50	100	80	2.86	26	DTA123JUAT106CT-ND	.43	6.25	16.25	DTA123JUAT106TR-ND	3,000	59.00/M	DTA123JUAT106
	50	100	33	2.86	5.5	DTA123YUAT106CT-ND	.43	6.25	16.25	DTA123YUAT106TR-ND	3,000	59.00/M	DTA123YUAT106
	50	30	56	28.6	1.2	DTA124EUAT106CT-ND	.43	6.25	16.25	DTA124EUAT106TR-ND	3,000	59.00/M	DTA124EUAT106
	50	50	68	28.6	2.6	DTA124XUAT106CT-ND	.43	7.31	20.28	DTA124XUAT106TR-ND	3,000	78.00/M	DTA124XUAT106
	50	100	30	6.11	1.2	DTA143EUAT106CT-ND	.43	6.25	16.25	DTA143EUAT106TR-ND	3,000	59.00/M	DTA143EUAT106
	50	100	100	6.11	—	DTA143TUAT106CT-ND	.43	6.25	16.25	DTA143TUAT106TR-ND	3,000	59.00/M	DTA143TUAT106
	50	100	100	6.11	—	DTC143TUAT106CT-ND	.43	6.25	16.25	DTC143TUAT106TR-ND	3,000	59.00/M	DTC143TUAT106
	50	100	30	6.11	2.6	DTA143XUAT106CT-ND	.43	6.25	16.25	DTA143XUAT106TR-ND	3,000	59.00/M	DTA143XUAT106
	50	100	80	6.11	12	DTA143ZUAT106CT-ND	.43	6.25	16.25	DTA143ZUAT106TR-ND	3,000	59.00/M	DTA143ZUAT106
	50	30	68	61.1	1.2	DTA144EUAT106CT-ND	.43	6.25	16.25	DTA144EUAT106TR-ND	3,000	59.00/M	DTA144EUAT106
	50	100	68	61.1	—	DTA144GUAT106CT-ND	.43	7.31	20.28	DTA144GUAT106TR-ND	3,000	78.00/M	DTA144GUAT106
	50	100	100	61.1	—	DTA144TUAT106CT-ND	.43	6.25	16.25	DTA144TUAT106TR-ND	3,000	59.00/M	DTA144TUAT106
	50	30	56	61.1	0.57	DTA144WUAT106CT-ND	.43	7.31	20.28	DTA144WUAT106TR-ND	3,000	78.00/M	DTA144WUAT106
SOT-346	50	500	33	1.3	1.2	DTB113EKT146CT-ND	.42	7.66	21.56	DTB113EKT146TR-ND	3,000	88.00/M	DTB113EKT146
	50	500	56	1.3	12	DTB113ZKT146CT-ND	.42	7.66	21.56	DTB113ZKT146TR-ND	3,000	88.00/M	DTB113ZKT146
	50	100	33	1.3	12	DTA113ZKAT146CT-ND	.36	5.25	13.65	DTA113ZKAT146TR-ND	3,000	49.00/M	DTA113ZKAT146
	50	50	30	13	1.2	DTA114EKAT146CT-ND	.29	4.25	11.05	DTA114EKAT146TR-ND	3,000	40.00/M	DTA114EKAT146
	50	500	56	13	1.2	DTB114EKT146CT-ND	.40	7.63	21.96	DTB114EKT146TR-ND	3,000	104.00/M	DTB114EKT146
	50	500	56	13	—	DTB114GKT146CT-ND	.50	9.63	27.72	DTB114GKT146TR-ND	3,000	131.00/M	DTB114GKT146
	50	100	30	13	—	DTA114GKAT146CT-ND	.43	7.31	20.28	DTA114GKAT146TR-ND	3,000	78.00/M	DTA114GKAT146
	50	100	600	13	—	DTA114TKAT146CT-ND	.36	5.25	13.65	DTA114TKAT146TR-ND	3,000	49.00/M	DTA114TKAT146
	50	100	24	13	0.57	DTA114WKAT146CT-ND	.39	6.56	18.20	DTA114WKAT146TR-ND	3,000	70.00/M	DTA114WKAT146
	50	100	68	13	5.7	DTA114YKAT146CT-ND	.36	5.25	13.65	DTA114YKAT146TR-ND	3,000	49.00/M	DTA114YKAT146
	50	20	82	130	1.2	DTA115EKAT146CT-ND	.39	6.56	18.20	DTA115EKAT146TR-ND	3,000	70.00/M	DTA115EKAT146
	50	100	20	2.86	1.2	DTA123EKAT146CT-ND	.36	5.25	13.65	DTA123EKAT146TR-ND	3,000	49.00/M	DTA123EKAT146
	50	500	39	2.86	1.2	DTB123EKT146CT-ND	.40	7.63	21.96	DTB123EKT146TR-ND	3,000	104.00/M	DTB123EKT146
	50	100	80	2.86	26	DTA123JKAT146CT-ND	.36	5.25	13.65	DTA123JKAT146TR-ND	3,000	49.00/M	DTA123JKAT146
	40	500	600	2.86	—	DTB123TKT146CT-ND	.41	7.50	21.12	DTB123TKT146TR-ND	3,000	86.00/M	DTB123TK146
	50	100	33	2.86	5.5	DTA123YKAT146CT-ND	.36	5.25	13.65	DTA123YKAT146TR-ND	3,000	49.00/M	DTA123YKAT146
	50	500	56	2.86	5.5	DTB123YKT146CT-ND	.40	7.63	21.96	DTB123YKT146TR-ND	3,000	104.00/M	DTB123YKT146
	50	100	56	28.6	1.2	DTA124EKAT146CT-ND	.36	5.25	13.65	DTA124EKAT146TR-ND	3,000	49.00/M	DTA124EKAT146
	50	100	100	28.6	—	DTA124TKAT146CT-ND	.36	5.25	13.65	DTA124TKAT146TR-ND	3,000	49.00/M	DTA124TKAT146
	50	50	68	28.6	2.6	DTA124XKAT146CT-ND	.36	5.25	13.65	DTA124XKAT146TR-ND	3,000	49.00/M	DTA124XKAT146
	50	100	20	6.11	1.2	DTA143EKAT146CT-ND	.34	5.00	13.00	DTA143EKAT146TR-ND	3,000	47.00/M	DTA143EKAT146
	50	500	47	6.11	1.2	DTB143EKT146CT-ND	.44	8.13	22.88	DTB143EKT146TR-ND	3,000	94.00/M	DTB143EKT146
	50	100	600	6.11	—	DTC143TKAT146CT-ND	.34	5.00	13.00	DTC143TKAT146TR-ND	3,000	47.00/M	DTC143TKAT146
	50	100	100	6.11	—	DTA143TKAT146CT-ND	.36	5.25	13.65	DTA143TKAT146TR-ND	3,000	49.00/M	DTA143TKAT146
	40	500	600	6.11	—	DTB143TKT146CT-ND ***NEW!***	.40	7.63	21.96	DTB143TKT146TR-ND ***NEW!***	3,000	104.00/M	DTB143TKT146
	50	100	80	6.11	12	DTA143ZKAT146CT-ND	.31	4.50	11.70	DTA143ZKAT146TR-ND	3,000	42.00/M	DTA143ZKAT146
	50	100	30	6.11	2.6	DTA143XKAT146CT-ND	.36	5.25	13.65	DTA143XKAT146TR-ND	3,000	49.00/M	DTA134XKAT146
	50	100	68	61.1	1.2	DTA144EKAT146CT-ND	.36	5.25	13.65	DTA144EKAT146TR-ND	3,000	49.00/M	DTA144EKAT146
	50	100	68	61.1	—	DTA144GKAT146CT-ND	.39	6.56	18.20	DTA144GKAT146TR-ND	3,000	70.00/M	DTA144GKAT146
	50	100	100	61.1	—	DTA144TKAT146CT-ND	.36	5.25	13.65	DTA144TKAT146TR-ND	3,000	49.00/M	DTA144TKAT146
	50	100	33	61.1	0.26	DTA144VKAT146CT-ND	.39	6.56	18.20	DTA144VKAT146TR-ND	3,000	70.00/M	DTA144VKAT146
	50	30	56	61.1	0.57	DTA144WKAT146CT-ND	.39	6.56	18.20	DTA144WKAT146TR-ND	3,000	70.00/M	DTA144WKAT146
SOT-416	50	100	33	1.3	12	DTA113ZETLCT-ND	.47	8.06	22.36	DTA113ZETLTR-ND	3,000	86.00/M	DTA113ZETL
	50	50	30	13	1.2	DTA114EETLCT-ND	.36	5.25	13.65	DTA114EETLTR-ND	3,000	49.00/M	DTA114EETL
	50	100	100	13	—	DTA114TETLCT-ND	.43	6.25	16.25	DTA114TETLTR-ND	3,000	59.00/M	DTA114TETL
	50	100	24	13	0.57	DTA114WETLCT-ND	.47	8.06	22.36	DTA114WETLTR-ND	3,000	86.00/M	DTA114WETL
	50	70	68	13	5.7	DTA114YETLCT-ND	.43	6.25	16.25	DTA114YETLTR-ND	3,000	59.00/M	DTA114YETL
	50	20	82	130	1.2	DTA115EETLCT-ND	.47	8.06	22.36	DTA115EETLTR-ND	3,000	86.00/M	DTA115EETL
	50	100	20	2.86	1.2	DTA123EETLCT-ND	.43	6.25	16.25	DTA123EETLTR-ND	3,000	59.00/M	DTA123EETL
	50	100	80	2.86	26	DTA123JETLCT-ND	.43	6.25	16.25	DTA123JETLTR-ND	3,000	59.00/M	DTA123JETL
	50	100	33	2.86	5.5	DTA123YETLCT-ND	.47	8.06	22.36	DTA123YETLTR-ND	3,000	86.00/M	DTA123YETL
	50	30	56	28.6	1.2	DTA124EETLCT-ND	.43	6.25	16.25	DTA124EETLTR-ND	3,000	59.00/M	DTA124EETL
	50	100	100	28.6	—	DTA124TETLCT-ND	.47	8.06	22.36	DTA124TETLTR-ND	3,000	86.00/M	DTA124TETL
	50	50	68	28.6	2.6	DTA124XETLCT-ND	.49	7.25	18.85	DTA124XETLTR-ND	3,000	68.00/M	DTA124XETL
	50	100	30	6.11	1.2	DTA143EETLCT-ND	.43	6.25	16.25	DTA143EETLTR-ND	3,000	59.00/M	DTA143EETL
	50	100	100	6.11	—	DTA143TETLCT-ND	.43	6.25	16.25	DTA143TETLTR-ND	3,000	59.00/M	DTA143TETL
	50	100	100	6.11	—	DTC143TETLCT-ND	.43	6.25	16.25	DTC143TETLTR-ND	3,000	59.00/M	DTC143TETL
	50	100	30	6.11	2.6	DTA143XETLCT-ND	.43	6.25	16.25	DTA143XETLTR-ND	3,000	59.00/M	DTA143XETL
	50	100	80	6.11	12	DTA143ZETLCT-ND	.43	6.25	16.25	DTA143ZETLTR-ND	3,000	59.00/M	DTA143ZETL
	50	30	68	61.1	1.2	DTA144EETLCT-ND	.43	6.25	16.25	DTA144EETLTR-ND	3,000	59.00/M	DTA144EETL
	50	100	100	61.1	—	DTA144TETLCT-ND	.43	6.25	16.25	DTA144TETLTR-ND	3,000	59.00/M	DTA144TETL
	50	30	56	61.1	0.57	DTA144WETLCT-ND	.47	8.06	22.36	DTA144WETLTR-ND	3,000	86.00/M	DTA144WETL
VMT-3	50	70	68	13	5.7	DTA114YMT2LCT-ND	.43	7.31	20.28	DTA114YMT2LTR-ND	8,000	70.00/M	DTA114YMT2L
	50	50	30	13	1.2	DTA114EMT2LCT-ND	.43	6.25	16.25	DTA114EMT2LTR-ND	8,000	50.00/M	DTA114EMT2L
	50	100	100	13	—	DTA114TMT2LCT-ND	.43	6.25	16.25	DTA114TMT2LTR-ND	8,000	50.00/M	DTA114TMT2L
	50	20	82	130	1.2	DTA115EMT2LCT-ND	.34	5.00	13.00	DTA115EMT2LTR-ND	8,000	40.00/M	DTA115EMT2L
	50	100	20	2.86	1.2	DTA123EMT2LCT-ND	.34	5.00	13.00	DTA123EMT2LTR-ND	8,000	40.00/M	DTA123EMT2L
	50	100	80	2.86	26	DTA123JMT2LCT-ND	.46	6.75	17.55	DTA123JMT2LTR-ND	8,000	54.00/M	DTA123JMT2L
	50	30	56	28.6	1.2	DTA124EMT2LCT-ND	.43	6.25	16.25	DTA124EMT2LTR-ND	8,000	50.00/M	DTA124EMT2L
	50	50	68	28.6	2.6	DTA124XMT2LCT-ND	.43	6.25	16.25	DTA124XMT2LTR-ND	8,000	50.00/M	DTA124XMT2L
	50	100	30	6.11	1.2	DTA143EMT2LCT-ND	.43	6.25	16.25	DTA143EMT2LTR-ND	8,000	50.00/M	DTA143EMT2L
	50	100	100	6.11	—	DTA143TMT2LCT-ND	.43	6.25	16.25	DTA143TMT2LTR-ND	8,000	50.00/M	DTA143TMT2L
	50	100	100	6.11	—	DTC143TMT2LCT-ND	.37	6.38	17.68	DTC143TMT2LTR-ND	8,000	61.00/M	DTC143TMT2L
	50	100	30	6.11	2.6	DTA143XMT2LCT-ND	.34	5.00	13.00	DTA143XMT2LTR-ND	8,000	40.00/M	DTA143XMT2L
	50	100	80	6.11	12	DTA143ZMT2LCT-ND ***NEW!***	.43	6.25	16.25	DTA143ZMT2LTR-ND ***NEW!***	8,000	50.00/M	DTA143ZMT2L
	50	30	68	61.1	1.2	DTA144EMT2LCT-ND	.43	6.25	16.25	DTA144EMT2LTR-ND	8,000	50.00/M	DTA144EMT2L
	12	500	140	.7	10	DTB513ZETLCT-ND ***NEW!***	.43	7.81	22.00	DTB513ZETLTR-ND ***NEW!***	3,000	90.00/M	DTB513ZETL
	30	200	140	.7	10	DTB713ZMT2LCT-ND ***NEW!***	.43	7.81	22.00	DTB713ZMT2LTR-ND ***NEW!***	8,000	85.00/M	DTB713ZMT2L
SC-72/SPT	50	30	68	32.9	0.8	DTC144ESATPCT-ND	.43	7.31	20.28	DTC144ESATPTR-ND	5,000	70.00/M	DTC144ESATP

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Dual Digital Transistors

Package	VCEO (V)	IC (mA)	Gain (HFE)	R1 (kΩ)	Ω Ratio R2/R1	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
							1	25	100		Qty.	Pricing	
NPN													
SOT-353	50	30	56	28.6	1.2	UMG1NCT-ND	.38	7.03	19.80	UMG1NTR-ND	3,000	81.00/M	UMG1NTR
	50	30	68	61.1	1.2	UMG2NCT-ND	.38	7.03	19.80	UMG2NTR-ND	3,000	81.00/M	UMG2NTR
	50	100	600	13	—	UMG4NCT-ND	.38	7.03	19.80	UMG4NTR-ND	3,000	81.00/M	UMG4NTR
	50	100	68	13	5.7	UMG5NCT-ND	.38	7.03	19.80	UMG5NTR-ND	3,000	81.00/M	UMG5NTR
	50	100	80	6.11	12	UMG8NCT-ND	.38	7.03	19.80	UMG8NTR-ND	3,000	81.00/M	UMG8NTR
	50	50	30	13	1.2	UMG9NCT-ND	.38	7.03	19.80	UMG9NTR-ND	3,000	81.00/M	UMG9NTR
	50	100	80	2.2	26	UMG11NCT-ND	.38	7.03	19.80	UMG11NTR-ND	3,000	81.00/M	UMG11NTR
SOT-363	50	30	56	28.6	1.2	UMH1NTNCT-ND	.38	7.03	19.80	UMH1NTNTR-ND	3,000	81.00/M	UMH1NTN
	50	30	68	61.1	1.2	UMH2NTNCT-ND	.38	7.03	19.80	UMH2NTNTR-ND	3,000	81.00/M	UMH2NTN
	50	100	600	6.11	—	UMH3NTNCT-ND	.38	7.03	19.80	UMH3NTNTR-ND	3,000	81.00/M	UMH3NTN
	50	100	600	13	—	UMH4NTNCT-ND	.38	7.03	19.80	UMH4NTNTR-ND	3,000	81.00/M	UMH4NTN
	50	30	68	61.1	1.2	UMH6NCT-ND	.38	7.03	19.80	UMH6NTR-ND	3,000	81.00/M	UMH6NTR
	50	70	68	13	5.7	UMH9NTNCT-ND	.38	7.03	19.80	UMH9NTNTR-ND	3,000	81.00/M	UMH9NTN
	50	100	80	2.86	26	UMH10NTNCT-ND	.38	7.03	19.80	UMH10NTNTR-ND	3,000	81.00/M	UMH10NTN
	50	50	30	13	1.2	UMH11NTNCT-ND	.38	7.03	19.80	UMH11NTNTR-ND	3,000	81.00/M	UMH11NTN
	50	100	100	61.1	—	UMH14NCT-ND	.52	10.00	28.80	UMH14NTR-ND	3,000	136.00/M	UMH14NTR
SOT-457	50	30	56	28.6	1.2	IMH1AT110CT-ND	.41	7.88	22.68	IMH1AT110TR-ND	3,000	107.00/M	IMH1AT110
	50	30	68	61.1	1.2	IMH2AT110CT-ND	.49	7.25	18.85	IMH2AT110TR-ND	3,000	68.00/M	IMH2AT110
	50	100	600	6.11	—	IMH3AT110CT-ND	.46	8.44	23.76	IMH3AT110TR-ND	3,000	97.00/M	IMH3AT110
	50	100	600	13	—	IMH4AT110CT-ND	.46	8.44	23.76	IMH4AT110TR-ND	3,000	97.00/M	IMH4AT110
	50	30	68	61.1	1.2	IMH6AT108CT-ND	.53	10.13	29.16	IMH6AT108TR-ND	3,000	138.00/M	IMH6AT108
	50	70	68	13	5.7	IMH9AT110CT-ND	.46	8.44	23.76	IMH9AT110TR-ND	3,000	97.00/M	IMH9AT110
	50	100	80	2.86	26	IMH10AT110CT-ND	.40	6.75	18.72	IMH10AT110TR-ND	3,000	72.00/M	IMH10AT110
	50	50	30	13	1.2	IMH11AT110CT-ND	.49	7.25	18.85	IMH11AT110TR-ND	3,000	68.00/M	IMH11AT110
	50	100	100	61.1	—	IMH14AT108CT-ND	.55	10.50	30.24	IMH14AT108TR-ND	3,000	143.00/M	IMH14AT108
SMT-5	50	30	56	28.6	1.2	FMG1AT148CT-ND	.46	8.88	25.56	FMG1AT148TR-ND	3,000	121.00/M	FMG1AT148
	50	30	68	61.1	1.2	FMG2AT148CT-ND	.42	8.13	23.40	FMG2AT148TR-ND	3,000	111.00/M	FMG2AT148
	50	100	600	13	—	FMG4AT148CT-ND	.46	8.88	25.56	FMG4AT148TR-ND	3,000	121.00/M	FMG4AT148
	50	100	68	13	5.7	FMG5AT148CT-ND	.46	8.88	25.56	FMG5AT148TR-ND	3,000	121.00/M	FMG5AT148
	50	100	80	6.11	12	FMG8AT148CT-ND	.37	6.38	17.68	FMG8AT148TR-ND	3,000	68.00/M	FMG8AT148
	50	50	30	13	1.2	FMG9AT148CT-ND	.46	8.88	25.56	FMG9AT148TR-ND	3,000	121.00/M	FMG9AT148
	50	100	80	2.2	26	FMG11AT148CT-ND	.48	8.75	24.64	FMG11AT148TR-ND	3,000	101.00/M	FMG11AT148
EMT-5	50	30	56	28.6	1.2	EMG1T2RCT-ND	.46	8.44	23.76	EMG1T2RTR-ND	8,000	92.00/M	EMG1T2R
	50	30	68	61.1	1.2	EMG2T2RCT-ND	.46	8.44	23.76	EMG2T2RTR-ND	8,000	92.00/M	EMG2T2R
	50	100	100	13	—	EMG4T2RCT-ND	.46	8.44	23.76	EMG4T2RTR-ND	8,000	92.00/M	EMG4T2R
	50	70	68	13	5.7	EMG5T2RCT-ND	.46	8.44	23.76	EMG5T2RTR-ND	8,000	92.00/M	EMG5T2R
	50	100	80	6.11	12	EMG8T2RCT-ND	.46	8.44	23.76	EMG8T2RTR-ND	8,000	92.00/M	EMG8T2R
	50	50	30	13	1.2	EMG9T2RCT-ND	.46	8.44	23.76	EMG9T2RTR-ND	8,000	92.00/M	EMG9T2R
	50	100	80	2.2	26	EMG11T2RCT-ND	.44	7.50	20.80	EMG11T2RTR-ND	8,000	72.00/M	EMG11T2R
EMT-6	50	30	56	28.6	1.2	EMH1T2RCT-ND	.46	8.44	23.76	EMH1T2RTR-ND	8,000	92.00/M	EMH1T2R
	50	30	68	61.1	1.2	EMH2T2RCT-ND	.46	8.44	23.76	EMH2T2RTR-ND	8,000	92.00/M	EMH2T2R
	50	100	600	6.11	—	EMH3T2RCT-ND	.46	8.44	23.76	EMH3T2RTR-ND	8,000	92.00/M	EMH3T2R
	50	100	600	13	—	EMH4T2RCT-ND	.46	8.44	23.76	EMH4T2RTR-ND	8,000	92.00/M	EMH4T2R
	50	30	68	61.1	1.2	EMH6T2RCT-ND	.46	8.44	23.76	EMH6T2RTR-ND	8,000	92.00/M	EMH6T2R
	50	70	68	13	5.7	EMH9T2RCT-ND	.50	9.63	27.72	EMH9T2RTR-ND	8,000	123.00/M	EMH9T2R
	50	100	80	2.86	26	EMH10T2RCT-ND	.46	8.44	23.76	EMH10T2RTR-ND	8,000	92.00/M	EMH10T2R
	50	50	30	13	1.2	EMH11T2RCT-ND	.46	8.44	23.76	EMH11T2RTR-ND	8,000	92.00/M	EMH11T2R
	50	150	120	—	—	EMX3T2RCT-ND	.46	8.44	23.76	EMX3T2RTR-ND	8,000	92.00/M	EMX3T2R
	12	500	680	—	—	EMX18T2RCT-ND ***NEW!***	.52	10.30	30.90	EMX18T2RTR-ND ***NEW!***	8,000	144.00/M	EMX18T2R
PNP													
SOT-353	50	30	68	61.1	1.2	UMA2NCT-ND	.38	7.03	19.80	UMA2NTR-ND	3,000	81.00/M	UMA2NTR
	50	100	68	10	5.7	UMA8NCT-ND	.38	7.03	19.80	UMA8NTR-ND	3,000	81.00/M	UMA8NTR
	50	50	30	13	1.2	UMA9NCT-ND	.38	7.03	19.80	UMA9NTR-ND	3,000	81.00/M	UMA9NTR
SOT-363	50	30	68	61.1	1.2	UMB2NTNCT-ND	.38	7.03	19.80	UMB2NTNTR-ND	3,000	81.00/M	UMB2NTN
	50	100	600	13	—	UMB4NTNCT-ND	.38	7.03	19.80	UMB4NTNTR-ND	3,000	81.00/M	UMB4NTN
	50	100	80	2.86	26	UMB10NTNCT-ND	.38	7.03	19.80	UMB10NTNTR-ND	3,000	81.00/M	UMB10NTN
	50	50	30	13	1.2	UMB11NTNCT-ND	.38	7.03	19.80	UMB11NTNTR-ND	3,000	81.00/M	UMB11NTN
SOT-428	50	70	68	13	5.7	UMB9NTNCT-ND	.38	7.03	19.80	UMB9NTNTR-ND	3,000	81.00/M	UMB9NTN
SOT-457	50	30	68	61.1	1.2	IMB2AT110CT-ND	.41	7.88	22.68	IMB2AT110TR-ND	3,000	107.00/M	IMB2AT110
	50	100	600	13	—	IMB4AT110CT-ND	.41	7.88	22.68	IMB4AT110TR-ND	3,000	107.00/M	IMB4AT110
	50	100	80	2.86	26	IMB10AT110CT-ND	.42	7.13	19.76	IMB10AT110TR-ND	3,000	76.00/M	IMB10AT110
	50	50	30	13	1.2	IMB11AT110CT-ND	.37	6.38	17.68	IMB11AT110TR-ND	3,000	68.00/M	IMB11AT110
	50	70	68	13	5.7	IMB9AT110CT-ND	.41	7.88	22.68	IMB9AT110TR-ND	3,000	107.00/M	IMB9AT110
SMT-5	50	30	68	61.1	1.2	FMA2AT148CT-ND	.41	7.88	22.68	FMA2AT148TR-ND	3,000	107.00/M	FMA2AT148
	50	100	68	10	5.7	FMA8AT148CT-ND	.41	7.88	22.68	FMA8AT148TR-ND	3,000	107.00/M	FMA8AT148
	50	50	30	13	1.2	FMA9AT148CT-ND	.46	8.88	25.56	FMA9AT148TR-ND	3,000	121.00/M	FMA9AT148
EMT-5	50	30	68	61.1	1.2	EMA2T2RCT-ND	.46	8.44	23.76	EMA2T2RTR-ND	8,000	92.00/M	EMA2T2R
	50	100	68	10	5.7	EMA8T2RCT-ND	.46	8.44	23.76	EMA8T2RTR-ND	8,000	92.00/M	EMA8T2R
EMT-6	50	30	68	61.1	1.2	EMB2T2RCT-ND	.46	8.44	23.76	EMB2T2RTR-ND	8,000	92.00/M	EMB2T2R
	50	100	600	13	—	EMB4T2RCT-ND	.46	8.44	23.76	EMB4T2RTR-ND	8,000	92.00/M	EMB4T2R
	50	70	68	13	5.7	EMB9T2RCT-ND	.46	8.44	23.76	EMB9T2RTR-ND	8,000	92.00/M	EMB9T2R
	50	100	80	2.86	26	EMB10T2RCT-ND	.46	8.44	23.76	EMB10T2RTR-ND	8,000	92.00/M	EMB10T2R
	50	50	30	13	1.2	EMB11T2RCT-ND	.46	8.44	23.76	EMB11T2RTR-ND	8,000	92.00/M	EMB11T2R
PNP/NPN													
SOT-353	50	150	120	—	—	UMY1NCT-ND	.37	6.38	17.68	UMY1NTR-ND	3,000	68.00/M	UMY1NTR
SOT-363	50	30	56	28.6	1.2	UMD2NCT-ND	.38	7.03	19.80	UMD2NTR-ND	3,000	81.00/M	UMD2NTR
	50	50	30	13	1.2	UMD3NCT-ND	.43	7.31	20.28	UMD3NTR-ND	3,000	78.00/M	UMD3N
	50	100	100	6.11	—	UMD6NCT-ND	.38	7.03	19.80	UMD6NTR-ND	3,000	81.00/M	UMD6NTR
	50	70	68	13	5.7	UMD9NCT-ND	.38	7.03	19.80	UMD9NTR-ND	3,000	81.00/M	UMD9NTR
	50	30	68	61.1	1.2	UMD12NCT-ND	.38	7.03	19.80	UMD12NTR-ND	3,000	81.00/M	UMD12NTR
	50	150	120	—	—	UMZ2NCT-ND	.43	7.31	20.28	UMZ2NTR-ND	3,000	78.00/M	UMZ2NTR
SOT-457	50	30	56	28.6	1.2	IMD2AT108CT-ND	.44	8.13	22.88	IMD2AT108TR-ND	3,000	94.00/M	IMD2AT108
	50	100	30	13	1.2	IMD3AT108CT-ND ***NEW!***	.44	8.13	22.88	IMD3AT108TR-ND ***NEW!***	3,000	94.00/M	IMD3AT108
	50	100	600	6.11	—	IMD6AT108CT-ND	.44	8.13	22.88	IMD6AT108TR-ND	3,000	94.00/M	IMD6AT108
	50	100	68	13	5.7	IMD9AT108CT-ND	.44	8.13	22.88	IMD9AT108TR-ND	3,000	94.00/M	IMD9AT108
	50 50	500 100	68 600	130 13	120 —	IMD10AT108CT-ND	.41	7.50	21.12	IMD10AT108TR-ND	3,000	86.00/M	IMD10AT108
	50	500	82	2.86	1.2	IMD16AT108CT-ND	.46	8.88	25.56	IMD16AT108TR-ND	3,000	121.00/M	IMD16AT108
	32	500	120	—	—	IMZ4T108CT-ND	.46	8.44	23.76	IMZ4T108TR-ND	3,000	97.00/M	IMZ4T108
SMT-5	50	150	120	—	—	FMY1AT148CT-ND	.44	8.50	24.48	FMY1AT148TR-ND	3,000	116.00/M	FMY1AT148
EMT-5	50	150	120	—	—	EMY1T2RCT-ND	.46	8.44	23.76	EMY1T2RTR-ND	8,000	92.00/M	EMY1T2R
EMT-6	50	30	56	28.6	1.2	EMD2T2RCT-ND	.46	8.44	23.76	EMD2T2RTR-ND	8,000	92.00/M	EMD2T2R
	50	50	30	13	1.2	EMD3T2RCT-ND	.46	8.44	23.76	EMD3T2RTR-ND	8,000	92.00/M	EMD3T2R
	50 50	100 100	68 68	61.1 13	1.2 5.7	EMD4T2RCT-ND ***NEW!***	.46	8.44	23.76	EMD4T2RTR-ND ***NEW!***	8,000	92.00/M	EMD4T2R
	50 50	100 100	68 30	61.1 6.11	1.2 2.6	EMD5T2RCT-ND ***NEW!***	.46	8.44	23.76	EMD5T2RTR-ND ***NEW!***	8,000	92.00/M	EMD5T2R
	50	100	100	6.11	—	EMD6T2RCT-ND	.46	8.44	23.76	EMD6T2RTR-ND	8,000	92.00/M	EMD6T2R
	50	70	68	13	5.7	EMD9T2RCT-ND	.46	8.44	23.76	EMD9T2RTR-ND	8,000	92.00/M	EMD9T2R
	50	30	68	61.1	1.2	EMD12T2RCT-ND	.46	8.44	23.76	EMD12T2RTR-ND	8,000	92.00/M	EMD12T2R
	12 50	500 100	140 30	1.3 13	12 1.2	EMD29T2RCT-ND ***NEW!***	.42	8.13	23.40	EMD29T2RTR-ND ***NEW!***	8,000	104.00/M	EMD29T2R

(Continued)

Dual Transistors

Package	VCEO (V)	VCBO (V)	IC (mA)	HFE Max.	VCE Sat. (V)	VCE		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
						IC (mA)	IB (mA)		1	25	100		Qty.	Pricing	
NPN															
SOT-363	50	60	150	560	0.4	50	5	UMX1NTNCT-ND	.43	7.31	20.28	UMX1NTNTR-ND	3,000	78.00/M	UMX1NTN
	50	60	150	560	0.4	50	5	UMX2NTRCT-ND	.43	7.31	20.28	UMX2NTRTR-ND	3,000	78.00/M	UMX2NTR
	50	60	150	560	0.4	50	5	UMX3NTRCT-ND	.49	7.25	18.85	UMX3NTRTR-ND	3,000	68.00/M	UMX3NTR
	20	30	50	270	0.5	20	4	UMX4NCT-ND	.44	8.13	22.88	UMX4NTR-ND	3,000	94.00/M	UMX4NTR
	11	20	50	270	0.5	10	5	UMX5NCT-ND	.44	8.38	24.12	UMX5NTR-ND	3,000	114.00/M	UMX5NTR
	12	15	500	680	.25	200	10	UMX18NTNCT-ND ***NEW!***	.50	9.63	27.72	UMX18NTNTR-ND ***NEW!***	3,000	131.00/M	UMX18NTN
SOT-457	50	60	150	560	0.4	50	5	IMX1T110CT-ND	.48	8.25	22.88	IMX1T110TR-ND	3,000	88.00/M	IMX1T110
	50	60	150	560	0.4	50	5	IMX2T108CT-ND	.49	7.25	18.85	IMX2T108TR-ND	3,000	68.00/M	IMX2T108
	50	60	150	560	0.4	50	5	IMX3T108CT-ND	.46	8.88	25.56	IMX3T108TR-ND	3,000	121.00/M	IMX3T108
	20	30	50	270	0.5	20	4	IMX4T108CT-ND	.55	10.90	32.70	IMX4T108TR-ND	3,000	164.00/M	IMX4T108
	11	20	50	120	0.5	10	5	IMX5T108CT-ND	.46	8.88	25.56	IMX5T108TR-ND	3,000	121.00/M	IMX5T108
	120	120	50	820	0.5	10	1	IMX8T108CT-ND	.43	7.81	22.00	IMX8T108TR-ND	3,000	90.00/M	IMX8T108
	20	25	500	2,700	0.4	500	20	IMX9T110CT-ND	.46	8.44	23.76	IMX9T110TR-ND	3,000	97.00/M	IMX9T110
	50	60	500	390	0.6	500	50	IMX17T110CT-ND	.46	8.44	23.76	IMX17T110TR-ND	3,000	97.00/M	IMX17T110
EMT-6	50	60	150	560	0.4	50	5	EMX1T2RCT-ND	.46	8.44	23.76	EMX1T2RTR-ND	8,000	92.00/M	EMX1T2R
	50	60	150	560	0.4	50	5	EMX2T2RCT-ND	.46	8.44	23.76	EMX2T2RTR-ND	8,000	92.00/M	EMX2T2R
	30	30	50	270	0.5	20	4	EMX4T2RCT-ND	.58	11.60	34.80	EMX4T2RTR-ND	8,000	162.00/M	EMX4T2R
	11	20	50	120	0.5	10	5	EMX5T2RCT-ND	.58	11.60	34.80	EMX5T2RTR-ND	8,000	162.00/M	EMX5T2R
PNP															
SOT-363	50	60	150	560	0.5	50	5	UMT1NTNCT-ND	.42	7.13	19.76	UMT1NTNTR-ND	3,000	76.00/M	UMT1NTN
	12	15	500	680	0.25	200	10	UMF5NCT-ND	.55	10.50	30.24	UMF5NTR-ND	3,000	143.00/M	UMF5NTR
	50	60	150	560	0.5	50	5	UMT2NCT-ND	.42	7.13	19.76	UMT2NTR-ND	3,000	76.00/M	UMT2NTR
SOT-457	120	120	50	820	0.5	10	1	IMT4T108CT-ND	.43	7.81	22.00	IMT4T108TR-ND	3,000	90.00/M	IMT4T108
	50	60	150	560	0.5	50	5	IMT1AT110CT-ND	.48	8.25	22.88	IMT1AT110TR-ND	3,000	88.00/M	IMT1AT110
	50	60	150	560	0.5	50	5	IMT2AT108CT-ND	.45	9.00	27.00	IMT2AT108TR-ND	3,000	135.00/M	IMT2AT108
	50	60	500	390	0.6	500	50	IMT17T110CT-ND	.46	8.44	23.76	IMT17T110TR-ND	3,000	97.00/M	IMT17T110
EMT-6	50	60	150	560	0.5	50	5	EMT1T2RCT-ND	.46	8.44	23.76	EMT1T2RTR-ND	8,000	92.00/M	EMT1T2R
	50	60	150	560	0.5	50	5	EMT2T2RCT-ND	.46	8.44	23.76	EMT2T2RTR-ND	8,000	92.00/M	EMT2T2R
PNP/NPN															
SOT-363	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	UMZ1NTRCT-ND	.37	6.38	17.68	UMZ1NTRTR-ND	3,000	68.00/M	UMZ1NTR
SOT-457	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	IMZ2AT108CT-ND	.46	8.44	23.76	IMZ2AT108TR-ND	3,000	97.00/M	IMZ2AT108
	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	IMZ1AT108CT-ND	.43	7.81	22.00	IMZ1AT108TR-ND	3,000	90.00/M	IMZ1AT108
EMT-6	12 12	15 15	500 100	680 30	0.25 0.25	200 200	10 10	EMF21T2RCT-ND	.50	9.22	25.96	EMF21T2RTR-ND	8,000	100.00/M	EMF21T2R
	12 12	15 15	500 100	680 68	0.25 0.25	200 200	10 10	EMF5T2RCT-ND	.50	9.63	27.72	EMF5T2RTR-ND	8,000	123.00/M	EMF5T2R
	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	EMZ1T2RCT-ND	.46	8.44	23.76	EMZ1T2RTR-ND	8,000	92.00/M	EMZ1T2R
	12 12	15 15	500 500	680 680	.25 .25	200 200	10 10	EMZ7T2RCT-ND ***NEW!***	.52	10.30	30.90	EMZ7T2RTR-ND ***NEW!***	8,000	144.00/M	EMZ7T2R
	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	EMZ2T2RCT-ND	.46	8.44	23.76	EMZ2T2RTR-ND	8,000	92.00/M	EMZ2T2R
PNP/DTR															
SOT-363	12	15	500	680	250	200	10	UMF21NCT-ND	.44	8.50	24.48	UMF21NTR-ND	3,000	116.00/M	UMF21NTR

General Purpose Transistors

Package	VCEO (V)	VCBO (V)	IC (A)	HFE Max.	VCE Sat Max. (V)	VCE IC (mA)	VCE IB (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Rohm Part No.
									1	25	100	Qty.	Pricing	
NPN														
SOT-89	20	40	3	390	0.5	2A	100	2SD2150T100RCT-ND	.52	10.30	30.90	1,000	165.00	2SD2150T100R
	20	50	5	390	1.0	4A	100	2SD2098T100RCT-ND	.76	15.12	45.36	1,000	260.00	2SD2098T100R
	20	40	3	560	0.5	2A	100	2SD2150T100SCT-ND	.52	10.30	30.90	1,000	165.00	2SD2150T100S
	25	30	1.2	1,800	0.3	500	10	2SD2537T100VCT-ND	.80	15.93	47.79	1,000	274.00	2SD2537T100V
	25	30	2	2,700	0.5	1	20	2SD2153T100VCT-ND	.94	18.72	56.16	1,000	322.00	2SD2153T100V
	30	30	1.5	680	0.35	1A	50	2SD2662T100CT-ND ***NEW!***	.55	11.00	33.00	1,000	176.00	2SD2662T100
	32	40	1	390	0.4	500	50	2SD1664T100QCT-ND	.48	8.75	24.64	1,000	112.00	2SD1664T100Q
	32	40	1	390	0.4	500	50	2SD1664T100RCT-ND	.55	10.63	30.60	1,000	153.00	2SD1664T100R
	32	40	2	390	0.8	2A	200	2SD1766T100QCT-ND	.45	9.00	27.00	1,000	144.00	2SD1766T100Q
	32	40	2	390	0.8	2A	200	2SD1766T100RCT-ND	.56	10.75	30.96	1,000	155.00	2SD1766T100R
	50	60	3	270	0.35	1A	50	2SC4672T100PCT-ND	.70	14.04	42.12	1,000	242.00	2SC4672T100P
	50	60	3	270	0.35	1A	50	2SC4672T100QCT-ND	.72	14.40	43.20	1,000	230.00	2SC4672T100Q
	50	60	1	270	0.4	500	50	2SC5053T100RCT-ND	.47	9.30	27.90	1,000	149.00	2SC5053T100R
	50	60	1	—	0.4	500	50	2SC5053T100QCT-ND	.42	8.13	23.40	1,000	117.00	2SC5053T100Q
	60	60	2	270	0.35	1A	50	2SD2391T100QCT-ND	.72	14.49	43.47	1,000	250.00	2SD2391T100Q
	80	100	1	270	0.4	500	20	2SD1898T100QCT-ND	.45	9.00	27.00	1,000	144.00	2SD1898T100Q
	80	120	1	390	0.4	500	20	2SD1898T100RCT-ND	.45	9.00	27.00	1,000	144.00	2SD1898T100R
	80	80	0.7	390	0.4	500	50	2SD1767T100QCT-ND	.71	14.20	42.60	1,000	227.00	2SD1767T100Q
	80	80	0.7	390	0.4	500	50	2SD1767T100RCT-ND	.71	14.20	42.60	1,000	227.00	2SD1767T100R
	90	90	2	10K	1.5	1A	1	2SD2170T100CT-ND	.61	12.20	36.60	1,000	195.00	2SD2170T100
	120	120	2	390	2	1A	100	2SC4132T100QCT-ND	.65	12.90	38.70	1,000	206.00	2SC4132T100Q
	120	120	2	390	2	1A	100	2SC4132T100RCT-ND	.65	12.90	38.70	1,000	206.00	2SC4132T100R
	400	400	0.1	270	0.5	10	1	2SC4505T100PCT-ND	.96	19.17	57.51	1,000	330.00	2SC4505T100P
	400	400	0.1	270	0.5	10	1	2SC4505T100QCT-ND	.96	19.17	57.51	1,000	330.00	2SC4505T100Q
SOT-323	6	12	50mA	560	0.3	10	1	2SC4774T106SCT-ND	.41	7.50	21.12	3,000	86.00/M	2SC4774T106S
	11	20	50mA	180	0.5	10	5	2SC4083T106NCT-ND	.43	6.25	16.25	3,000	59.00/M	2SC4083T106N
	11	20	50mA	180	0.5	10	5	2SC4083T106PCT-ND	.43	6.25	16.25	3,000	59.00/M	2SC4083T106P
	12	15	1.5	680	0.2	500	25	2SD2652T106CT-ND	.56	10.75	30.96	3,000	146.00/M	2SD2652T106
	20	30	50mA	180	0.5	20	4	2SC4082T106PCT-ND	.41	7.50	21.12	3,000	86.00/M	2SC4082T106P
	25	40	50mA	180	0.35	10	1	2SC4098T106PCT-ND	.41	7.50	21.12	3,000	86.00/M	2SC4098T106P
	30	30	1	680	0.35	500	25	2SD2656T106CT-ND	.50	9.63	27.72	3,000	131.00/M	2SD2656T106
	32	40	0.5	390	0.6	500	50	2SC4097T106QCT-ND	.47	8.06	22.36	3,000	86.00/M	2SC4097T106Q
	32	40	0.5	390	0.6	500	50	2SC4097T106RCT-ND	.47	8.06	22.36	3,000	86.00/M	2SC4097T106R
	40	75	0.6	75	1	500	50	UMT2222AT106CT-ND	.44	6.50	16.90	3,000	61.00/M	UMT2222AT106
	40	60	0.2	300	0.3	50	5	UMT3904T106CT-ND	.44	6.50	16.90	3,000	61.00/M	UMT3904T106
	50	60	0.15	270	0.4	50	5	2SC4081T106QCT-ND	.34	5.00	13.00	3,000	47.00/M	2SC4081T106Q
	50	60	0.15	390	0.4	50	5	2SC4081T106RCT-ND	.34	5.00	13.00	3,000	47.00/M	2SC4081T106R
	50	60	0.15	2,700	0.3	50	5	2SD2351T106VCT-ND	.46	8.44	23.76	3,000	97.00/M	2SD2351T106V
	50	60	0.15	2,700	0.3	50	5	2SD2351T106WCT-ND	.45	8.28	23.32	3,000	95.00/M	2SD2351T106W
	50	50	0.5	390	0.4	150	15	2SD1949T106QCT-ND	.46	8.44	23.76	3,000	97.00/M	2SD1949T106Q
	50	50	0.5	390	0.4	150	15	2SD1949T106RCT-ND	.46	8.44	23.76	3,000	97.00/M	2SD1949T106R
	60	60	0.5	390	0.3	100	10	2SC5876T106QCT-ND	.55	10.63	30.60	3,000	145.00/M	2SC5876T106Q
	60	60	0.5	390	0.3	100	10	2SC5876T106RCT-ND	.55	10.63	30.60	3,000	145.00/M	2SC5876T106R
	120	120	50mA	560	0.5	10	1	2SC4102T106RCT-ND	.37	6.38	17.68	3,000	68.00/M	2SC4102T106R
	120	120	50mA	560	0.5	10	1	2SC4102T106SCT-ND ***NEW!***	.49	9.06	25.52	3,000	104.00/M	2SC4102T106S

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ For Tape and Box part number, change CT-ND to TB-ND.

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ROHM Transistors

General Purpose Transistors *(Cont.)*

Package	VCEO (V)	VCBO (V)	IC (A)	HFE Max.	VCE Sat Max. (V)	VCE IC (mA)	VCE IB (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Rohm Part No.
									1	25	100	Qty.	Pricing	
SOT-346	6	12	50mA	560	0.3	10	1	2SC4713KT146SCT-ND	.46	8.88	25.56	3,000	121.00/M	2SC4713KT146S
	11	20	50mA	180	0.5	10	5	2SC3838KT146NCT-ND	.46	7.88	21.84	3,000	84.00/M	2SC3838KT146N
	11	20	50mA	180	0.5	10	5	2SC3838KT146PCT-ND	.46	7.88	21.84	3,000	84.00/M	2SC3838KT146P
	12	15	2	680	0.18	1A	50	2SD2653KT146CT-ND	.55	10.90	32.70	3,000	164.00/M	2SD2653KT146
	15	15	1	390	0.3	400	20	2SD2444KT146RCT-ND ***NEW!***	.50	9.90	29.70	3,000	149.00/M	2SD2444KT146R
	15	30	0.5	560	0.4	500	50	2SD1757KT146QCT-ND	.46	9.20	27.60	3,000	138.00/M	2SD1757KT146Q
	15	30	0.5	560	0.4	500	50	2SD1757KT146RCT-ND	.46	9.20	27.60	3,000	138.00/M	2SD1757KT146R
	20	30	50mA	180	0.5	20	4	2SC3837KT146PCT-ND	.40	7.75	22.32	3,000	105.00/M	2SC3837KT146P
	20	25	0.5	2,700	0.4	500	20	2SD2114KT146VCT-ND	.43	7.31	20.28	3,000	78.00/M	2SD2114KT146V
	20	25	0.5	2,700	0.4	500	20	2SD2114KT146WCT-ND	.43	7.31	20.28	3,000	78.00/M	2SD2114KT146W
	20	50	0.3	2,700	0.1	30	3	2SD2704KT146CT-ND ***NEW!***	.44	7.50	20.80	3,000	80.00/M	2SD2704KT146
	25	40	50mA	180	0.3	10	1	2SC2413KT146PCT-ND	.46	8.44	23.76	3,000	97.00/M	2SC2413KT146P
	30	30	1.5	680	.35	1A	50	2SD2657KT146CT-ND ***NEW!***	.42	8.13	23.40	3,000	111.00/M	2SD2657KT146
	32	40	0.5	390	0.6	500	50	2SC2411KT146QCT-ND	.43	7.31	20.28	3,000	78.00/M	2SC2411KT146Q
	32	40	0.5	390	0.6	500	50	2SC2411KT146RCT-ND	.43	7.31	20.28	3,000	78.00/M	2SC2411KT146R
	32	40	0.3	5,000min.	1.5	200	0.4	2SD1383KT146BCT-ND	.55	10.50	30.24	3,000	143.00/M	2SD1383KT146B
	32	40	0.8	390	0.4	500	50	2SD1781KT146QCT-ND	.43	7.31	20.28	3,000	78.00/M	2SD1781KT146Q
	32	40	0.8	390	0.4	500	50	2SD1781KT146RCT-ND	.43	7.31	20.28	3,000	78.00/M	2SD1781KT146R
	40	60	0.2	300	0.2	10	1	MMST3904T146CT-ND	.43	6.25	16.25	3,000	59.00/M	MMST3904T146
	40	75	0.6	75	1	500	50	MMST2222AT146CT-ND	.33	5.63	15.60	3,000	60.00/M	MMST2222AT146
	40	60	0.6	80	0.75	500	50	MMST4401T146CT-ND	.46	6.75	17.55	3,000	63.00/M	MMST4401T146
	50	60	0.15	270	0.4	50	5	2SC2412KT146QCT-ND	.29	4.25	11.05	3,000	40.00/M	2SC2412KT146Q
	50	60	0.15	390	0.4	50	5	2SC2412KT146RCT-ND	.29	4.25	11.05	3,000	40.00/M	2SC2412KT146R
	50	60	0.15	560	0.4	50	5	2SC2412KT146SCT-ND	.31	4.50	11.70	3,000	42.00/M	2SC2412KT146S
	80	80	0.5	100min.	0.25	100	10	MMSTA06T146CT-ND	.49	9.06	25.52	3,000	104.00/M	MMSTA06T146
	50	50	0.5	390	0.4	150	15	2SD1484KT146QCT-ND	.33	5.63	15.60	3,000	60.00/M	2SD1484KT146Q
	50	50	0.5	390	0.4	150	15	2SD1484KT146RCT-ND	.33	5.63	15.60	3,000	60.00/M	2SD1484KT146R
	50	60	0.15	2,700	0.3	50	5	2SD2226KT146WCT-ND	.55	10.63	30.60	3,000	145.00/M	2SD2226KT146W
	50	60	0.15	2,700	0.3	50	5	2SD2226KT146VCT-ND	.55	10.63	30.60	3,000	145.00/M	2SD2226KT146V
	80	80	0.5	390	0.5	500	50	2SD1782KT146RCT-ND	.45	8.28	23.32	3,000	95.00/M	2SD1782KT146R
	80	80	0.5	390	0.5	500	50	2SD1782KT146QCT-ND	.45	8.28	23.32	3,000	95.00/M	2SD1782KT146Q
	120	120	50mA	560	0.5	10	1	2SC3906KT146RCT-ND	.48	8.91	25.08	3,000	103.00/M	2SC3906KT146R
	120	120	50mA	560	0.5	10	1	2SC3906KT146SCT-ND ***NEW!***	.48	8.91	25.08	3,000	103.00/M	2SC3906KT146S
	300	300	0.1	180	2	50	5	2SC4061KT146NCT-ND	.54	10.38	29.88	3,000	141.00/M	2SC4061KT146N
SOT-416	11	20	50mA	180	0.5	10	5	2SC4726TLPCT-ND	.48	9.50	28.50	3,000	143.00/M	2SC4726TLP
	12	15	0.5	680	0.25	200	10	2SC5585TLCT-ND	.50	9.22	25.96	3,000	106.00/M	2SC5585TL
	20	30	50mA	180	0.5	20	4	2SC4725TLPCT-ND	.55	10.63	30.60	3,000	145.00/M	2SC4725TLP
	25	40	50mA	180	0.3	10	1	2SC4618TLNCT-ND	.40	7.75	22.32	3,000	105.00/M	2SC4618TLN
	25	40	50mA	180	0.3	10	1	2SC4618TLPCT-ND	.40	7.75	22.32	3,000	105.00/M	2SC4618TLP
	50	60	0.15	2,700	0.3	50	5	2SD2654TLVCT-ND	.41	7.88	22.68	3,000	107.00/M	2SD2654TLV
	50	60	0.15	270	0.4	50	5	2SC4617TLQCT-ND	.34	5.00	13.00	3,000	47.00/M	2SC4617TLQ
	50	60	0.15	390	0.4	50	5	2SC4617TLRCT-ND	.34	5.00	13.00	3,000	47.00/M	2SC4617TLR
VMT-3	11	20	50mA	180	0.5	10	5	2SC5662T2LPCT-ND	.44	8.38	24.12	8,000	107.00/M	2SC5662T2LP
	12	15	0.5	680	0.25	200	10	2SC5663T2LCT-ND	.47	9.00	25.92	8,000	115.00/M	2SC5663T2L
	20	30	50mA	180	0.5	20	4	2SC5661T2LPCT-ND	.47	9.30	27.90	8,000	130.00/M	2SC5661T2LP
	25	40	50mA	180	0.3	10	1	2SC5659T2LNCT-ND	.45	7.69	21.32	8,000	74.00/M	2SC5659T2LN
	25	40	50mA	180	0.3	10	1	2SC5659T2LPCT-ND	.45	7.69	21.32	8,000	74.00/M	2SC5659T2LP
	50	60	0.15	560	0.4	50	5	2SC5658T2LRCT-ND	.42	7.13	19.76	8,000	68.00/M	2SC5658T2LR
	50	60	0.15	270	0.4	50	5	2SC5658T2LQCT-ND	.42	7.13	19.76	8,000	68.00/M	2SC5658T2LQ
	50	60	0.15	2,700	0.3	50	5	2SD2707T2LVCT-ND	.48	8.91	25.08	8,000	97.00/M	2SD2707T2LV
SOT-428	20	30	10	390	0.25	4A	50	2SC5001TLQCT-ND	.96	20.88	64.25	2,500	342.00/M	2SC5001TLQ
	20	30	10	390	0.25	4A	50	2SC5001TLRCT-ND	.98	19.62	58.86	2,500	311.00/M	2SC5001TLR
	20	50	5	390	1	4A	100	2SD2118TLQCT-ND	.75	15.03	45.09	2,500	238.00/M	2SD2118TLQ
	20	50	5	390	1	4A	100	2SD2118TLRCT-ND	.75	15.03	45.09	2,500	238.00/M	2SD2118TLR
	32	40	2	390	0.8	2A	200	2SD1758TLQCT-ND	.72	14.49	43.47	2,500	229.00/M	2SD1758TLQ
	32	40	2	390	0.8	2A	200	2SD1758TLRCT-ND	.72	14.49	43.47	2,500	229.00/M	2SD1758TLR
	50	60	3	390	1	2A	200	2SD1760TLQCT-ND	.81	16.20	48.60	2,500	257.00/M	2SD1760TLQ
	50	60	3	390	1	2A	200	2SD1760TLRCT-ND	.81	16.20	48.60	2,500	257.00/M	2SD1760TLR
	60	80	3	1,800	1	2A	50	2SD2318TLVCT-ND	1.01	21.94	67.50	2,500	359.00/M	2SD2318TLV
	60	80	3	1,800	1	2A	50	2SD2318TLUCT-ND	1.01	21.94	67.50	2,500	359.00/M	2SD2318TLU
	60	100	5	270	0.3	3A	150	2SC5103TLQCT-ND	1.06	22.99	70.75	2,500	376.00/M	2SC5103TLQ
	80	120	1	390	0.4	500	20	2SD1733TLQCT-ND	1.07	21.42	64.26	2,500	339.00/M	2SD1733TLQ
	80	120	1	390	0.4	500	20	2SD1733TLRCT-ND	1.07	21.42	64.26	2,500	339.00/M	2SD1733TLR
SOT-23	40	75	0.6	75	1	500	50	SST2222AT116CT-ND	.26	3.75	9.75	3,000	35.00/M	SST2222AT116
	40	60	0.6	80	0.75	500	50	SST4401T116CT-ND	.44	6.50	16.90	3,000	61.00/M	SST4401T116
	80	80	0.3	—	1.2	100	0.1	SSTA28T116CT-ND	.48	8.25	22.88	3,000	88.00/M	SSTA281T116
	80	80	0.5	100	0.25	100	10	SSTA06T116CT-ND	.36	6.19	17.16	3,000	66.00/M	SSTA06T116
TUMT-3	12	15	2	680	0.18	1A	50	2SD2700TLCT-ND	.55	11.00	33.00	3,000	165.00/M	2SD2700TL
	12	15	2	680	0.35	1A	50	2SD2701TLCT-ND	.55	11.00	33.00	3,000	165.00/M	2SD2701TL
TSMT-3	12	15	2	680	0.18	1A	50	2SD2653TLCT-ND	.61	12.20	36.60	3,000	183.00/M	2SD2653TL
	12	15	3	680	.25	1.5A	30	2SD2670TLCT-ND ***NEW!***	.58	11.60	34.80	3,000	174.00/M	2SD2670TL
	30	30	1.5	680	0.35	1A	50	2SD2657TLCT-ND	.45	9.00	27.00	3,000	135.00/M	2SD2657TL
	30	30	3	680	0.25	1.5A	30	2SD2673TLCT-ND	.74	14.80	44.40	3,000	222.00/M	2SD2673TL
	30	30	1	680	.35	500	25	2SD2675TLCT-ND ***NEW!***	.50	10.00	30.00	3,000	150.00/M	2SD2675TL
	30	30	1	390	0.3	500	50	2SC5730TLQCT-ND	.52	10.00	28.80	3,000	136.00/M	2SC5730TLQ
	30	30	1	390	0.3	500	50	2SC5730TLRCT-ND	.52	10.00	28.80	3,000	136.00/M	2SC5730TLR
	30	30	2	390	0.4	1A	100	2SC5916TLQCT-ND	.46	8.88	25.56	3,000	121.00/M	2SC5916TLQ
	30	30	2	390	0.4	1A	100	2SC5916TLRCT-ND	.46	8.88	25.56	3,000	121.00/M	2SC5916TLR
SPT	20	40	3	390	0.5	2A	100	2SC4115STPRCT-ND‡	.50	9.63	27.72	5,000	123.00/M	2SC4115STPR
	50	60	0.15	560	0.4	50	5	2SC1740STPQCT-ND‡	.41	6.00	15.60	5,000	48.00/M	2SC1740STPQ
	50	50	0.5	390	0.4	150	15	2SC1741ASTPQCT-ND‡	.37	6.38	17.68	5,000	61.00/M	2SC1741ASTPQ
SC-72/SPT	20	25	0.5	2,700	0.4	500	20	2SD2144STPVCT-ND‡	.38	7.03	19.80	5,000	77.00/M	2SD2144STPV
	50	60	0.15	390	0.4	50	5	2SC1740STPRCT-ND‡	.41	6.00	15.60	5,000	48.00/M	2SC1740STPR
ATV	20	50	5	390	1	4A	100	2SD2097TV2QCT-ND‡	.81	16.20	48.60	2,500	257.00/M	2SD2097TV2Q
	20	50	5	390	1	4A	100	2SD2097TV2RCT-ND‡	.81	16.20	48.60	2,500	257.00/M	2SD2097TV2R
	80	100	1	390	0.4	500	20	2SD1863TV2RCT-ND‡	.55	10.90	32.70	2,500	164.00/M	2SD1863TV2R
	80	120	1	390	0.4	500	20	2SD1863TV2QCT-ND‡	.61	12.20	36.60	2,500	183.00/M	2SD1863TV2Q
	50	60	3	390	1	2A	200	2SD1864TV2QCT-ND‡	1.09	21.78	65.34	2,500	345.00/M	2SD1864TV2Q
	50	60	3	390	1	2A	200	2SD1864TV2RCT-ND‡	1.09	21.78	65.34	2,500	345.00/M	2SD1864TV2R
	80	80	0.7	390	0.4	500	50	2SD1859TV2QCT-ND‡	.69	13.80	41.40	2,500	207.00/M	2SD1859TV2Q
	80	80	0.7	390	0.4	500	50	2SD1859TV2RCT-ND‡	.69	13.80	41.40	2,500	207.00/M	2SD1859TV2R
TO-200FP	60	80	3	320	1	2A	200	2SD2096T114ECT-ND	1.31	28.44	87.50	1,000	508.00	2SD2096T114E
	160	160	1.5	200	2	1A	100	2SD2033AT114ECT-ND	1.58	34.13	105.00	1,000	609.00	2SD2033AT114E
								PNP						
SOT-89	20	20	3	270	0.5	2A	100	2SB1424T100QCT-ND	.45	9.00	27.00	1,000	144.00	2SB1424T100Q
	20	20	3	390	0.5	2A	100	2SB1424T100RCT-ND	.42	8.13	23.40	1,000	117.00	2SB1424T100R
	20	30	3	390	0.45	1.5A	150	2SB1308T100RCT-ND ***NEW!***	.85	17.01	51.03	1,000	293.00	2SB1308T100R
	20	30	5	390	1	4A	100	2SB1386T100QCT-ND	.58	11.50	34.50	1,000	184.00	2SB1386T100Q
	20	30	5	390	1	4A	100	2SB1386T100RCT-ND	.58	11.50	34.50	1,000	184.00	2SB1386T100R
	20	20	2	820	0.5	1A	50	2SB1427T100ECT-ND	.58	11.60	34.80	1,000	186.00	2SB1427T100E
	30	30	1.5	680	.37	1A	50	2SB1698T100CT-ND ***NEW!***	.55	11.00	33.00	1,000	176.00	2SB1698T100
	32	40	1	390	0.5	500	50	2SB1132T100RCT-ND	.40	7.63	21.96	1,000	110.00	2SB1132T100R

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ For Tape and Box part number, change CT-ND to TB-ND.

(Continued)

Transistors

General Purpose Transistors *(Cont.)*

Package	VCEO (V)	VCBO (V)	IC (A)	HFE Max.	VCE Sat Max. (V)	VCE IC (mA)	VCE IB (mA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel† Qty.	Pricing	Rohm Part No.
SOT-89	32	40	1	270	0.5	500	50	2SB1132T100QCT-ND	.44	8.50	24.48	1,000	122.00	2SB1132T100Q
	32	40	2	270	0.8	2A	200	2SB1188T100QCT-ND	.45	9.00	27.00	1,000	144.00	2SB1188T100Q
	32	40	2	390	0.8	2A	200	2SB1188T100RCT-ND	.45	9.00	27.00	1,000	144.00	2SB1188T100R
	50	60	1	270	0.4	500	50	2SA1900T100QCT-ND	.65	12.90	38.70	1,000	206.00	2SA1900T100Q
	50	50	3	270	0.35	1A	50	2SA1797T100PCT-ND	.69	13.80	41.40	1,000	221.00	2SA1797T100P
	50	50	3	270	0.35	1A	50	2SA1797T100QCT-ND	.65	13.00	39.00	1,000	208.00	2SA1797T100Q
	60	60	2	270	0.35	1A	50	2SB1561T100QCT-ND	.74	14.80	44.40	1,000	237.00	2SB1561T100Q
	80	80	1	270	0.4	500	50	2SB1260T100QCT-ND	.52	10.00	28.80	1,000	144.00	2SB1260T100Q
	80	80	0.7	390	0.4	500	50	2SB1189T100QCT-ND	.52	10.30	30.90	1,000	165.00	2SB1189T100Q
	80	80	0.7	390	0.4	500	50	2SB1189T100RCT-ND	.52	10.30	30.90	1,000	165.00	2SB1189T100R
	80	80	1	390	0.4	500	50	2SB1260T100RCT-ND	.52	10.00	28.80	1,000	144.00	2SB1260T100R
	400	400	0.1	180	0.5	20	2	2SA1759T100PCT-ND	.83	16.56	49.68	1,000	285.00	2SA1759T100P
	400	400	0.5	270	1	100	10	2SA1812T100QCT-ND	.88	17.55	52.65	1,000	302.00	2SA1812T100Q
SOT-323	12	15	1.5	680	0.20	500	25	2SB1689T106CT-ND	.44	8.50	24.48	3,000	116.00/M	2SB1689T106
	30	30	1	680	0.38	500	25	2SB1694T106CT-ND	.49	9.06	25.52	3,000	104.00/M	2SB1694T106
	32	40	0.5	390	0.6	300	30	2SA1577T106QCT-ND	.37	5.50	14.30	3,000	52.00/M	2SA1577T106Q
	32	40	0.5	390	0.6	300	30	2SA1577T106RCT-ND	.37	5.50	14.30	3,000	52.00/M	2SA1577T106R
	40	40	0.2	300	0.4	50	5	UMT3906T106CT-ND	.44	6.50	16.90	3,000	61.00/M	UMT3906T106
	50	60	0.15	270	0.5	50	5	2SA1576AT106QCT-ND	.34	5.00	13.00	3,000	47.00/M	2SA1576AT106Q
	50	60	0.15	390	0.5	50	5	2SA1576AT106RCT-ND	.34	5.00	13.00	3,000	47.00/M	2SA1576AT106R
	60	60	0.6	100	1.6	500	50	UMT2907AT106CT-ND	.44	6.50	16.90	3,000	61.00/M	UMT2907AT106
	120	120	50mA	560	0.5	10	1	2SA1579T106RCT-ND	.48	8.75	24.64	3,000	101.00/M	2SA1579T106R
	120	120	50mA	560	0.5	10	1	2SA1579T106SCT-ND	.48	8.75	24.64	3,000	101.00/M	2SA1579T106S
SOT-346	12	15	2	680	0.18	1A	50	2SB1690KT146CT-ND	.55	10.50	30.24	3,000	143.00/M	2SB1690KT146
	15	15	1	270	0.3	400	20	2SB1590KT146QCT-ND ***NEW!***	.46	9.20	27.60	3,000	138.00/M	2SB1590KT146Q
	32	40	0.5	390	0.6	300	30	2SA1036KT146QCT-ND	.50	9.22	25.96	3,000	106.00/M	2SA1036KT146Q
	32	40	0.5	390	0.6	300	30	2SA1036KT146RCT-ND	.50	9.22	25.96	3,000	106.00/M	2SA1036KT146R
	32	40	0.8	390	0.5	500	50	2SB1197KT146RCT-ND	.43	7.31	20.28	3,000	78.00/M	2SB1197KT146R
	32	40	0.8	270	0.5	0.5A	50	2SB1197KT146QCT-ND	.43	7.31	20.28	3,000	78.00/M	2SB1197KT146Q
	40	40	0.2	300	0.25	10	1	MMST3906T146CT-ND	.43	6.25	16.25	3,000	59.00/M	MMST3906T146
	40	40	0.6	100	0.75	500	50	MMST4403T146CT-ND	.46	6.75	17.55	3,000	63.00/M	MMST4403T146
	50	60	0.15	270	0.5	50	5	2SA1037AKT146QCT-ND	.29	4.25	11.05	3,000	40.00/M	2SA1037AK146Q
	50	60	0.15	390	0.5	50	5	2SA1037AKT146RCT-ND	.29	4.25	11.05	3,000	40.00/M	2SA1037AK146R
	60	60	0.6	100	1.6	500	50	MMST2907AT146CT-ND	.49	7.25	18.85	3,000	68.00/M	MMST2907AT146
	80	80	0.5	100min.	0.25	100	10	MMSTA56T146CT-ND	.49	9.06	25.52	3,000	104.00/M	MMSTA56T146
	80	80	0.5	390	0.5	500	50	2SB1198KT146QCT-ND	.43	7.81	22.00	3,000	90.00/M	2SB1198KT146Q
	80	80	0.5	390	0.5	500	50	2SB1198KT146RCT-ND	.43	7.81	22.00	3,000	90.00/M	2SB1198KT146R
	120	120	50mA	560	0.5	10	1	2SA1514KT146RCT-ND	.48	8.91	25.08	3,000	103.00/M	2SA1514KT146R
	120	120	50mA	560	0.5	10	1	2SA1514KT146SCT-ND	.48	8.91	25.08	3,000	103.00/M	2SA1514KT146S
SOT-416	12	15	0.5	680	0.25	200	10	2SA2018TLCT-ND	.48	8.91	25.08	3,000	103.00/M	2SA2018TL
	50	60	0.15	270	0.5	50	5	2SA1774TLQCT-ND	.37	5.50	14.30	3,000	52.00/M	2SA1774TLQ
	50	60	0.15	560	0.5	50	5	2SA1774TLRCT-ND	.37	5.50	14.30	3,000	52.00/M	2SA1774TLR
VMT-3	12	15	0.5	680	0.25	200	10	2SA2030T2LCT-ND	.47	9.00	25.92	8,000	115.00/M	2SA2030T2L
	50	60	0.15	560	0.5	50	5	2SA2029T2LQCT-ND	.49	7.25	18.85	8,000	58.00/M	2SA2029T2LQ
	50	60	0.15	560	0.5	50	5	2SA2029T2LRCT-ND ***NEW!***	.49	7.25	18.85	8,000	58.00/M	2SA2029T2LR
SOT-428	20	30	10	560	0.25	4A	50	2SA1834TLRCT-ND	1.20	26.08	80.25	2,500	427.00/M	2SA1834TLR
	20	30	5	390	1	4A	100	2SB1412TLQCT-ND	.69	13.86	41.58	2,500	219.00/M	2SB1412TLQ
	20	30	5	390	1	4A	100	2SB1412TLRCT-ND	.95	20.64	63.50	2,500	338.00/M	2SB1412TLR
	32	40	2	390	0.8	2A	200	2SB1182TLQCT-ND	1.01	20.25	60.75	2,500	321.00/M	2SB1182TLQ
	32	40	2	390	0.8	2A	200	2SB1182TLRCT-ND	1.01	20.25	60.75	2,500	321.00/M	2SB1182TLR
	50	60	3	390	1	2A	200	2SB1184TLRCT-ND	.65	12.90	38.70	2,500	194.00/M	2SB1184TLR
	50	60	3	270	1	2A	200	2SB1184TLQCT-ND	.65	12.90	38.70	2,500	194.00/M	2SB1184TLQ
	60	100	5	270	0.3	3A	150	2SA1952TLQCT-ND	1.59	34.45	106.00	2,500	564.00/M	2SA1952TLQ
	80	80	1	390	0.4	500	50	2SB1181TLQCT-ND	.98	19.62	58.86	2,500	311.00/M	2SB1181TLQ
	80	80	1	390	0.4	500	50	2SB1181TLRCT-ND	.98	19.62	58.86	2,500	311.00/M	2SB1181TLR
	400	400	0.5	270	1	100	10	2SA1727TLPCT-ND	.98	19.62	58.86	2,500	311.00/M	2SA1727TLP
	400	400	0.5	270	1	100	10	2SA1727TLQCT-ND	.98	19.62	58.86	2,500	311.00/M	2SA1727TLQ
	400	400	2	180	0.5	500	100	2SA1862TLPCT-ND	1.35	29.17	89.75	2,500	477.00/M	2SA1862TLP
	600	600	1	180	1.2	300	60	2SA1807TLPCT-ND ***NEW!***	1.59	34.45	106.00	2,500	564.00/M	2SA1807TLP
SOT-23	40	40	0.6	100	0.75	500	50	SST4403T116CT-ND	.44	6.50	16.90	3,000	61.00/M	SST4403T116
	60	60	0.6	100	1.6	500	50	SST2907AT116CT-ND	.26	3.75	9.75	3,000	35.00/M	SST2907AT116
TUMT-3	12	15	2	680	0.18	1A	50	2SB1730TLCT-ND	.50	10.00	30.00	3,000	150.00/M	2SB1730TL
	30	30	1.5	680	0.37	1A	50	2SB1731TLCT-ND	.50	10.00	30.00	3,000	150.00/M	2SB1731TL
TSMT-3	12	15	1.5	680	200	500	25	2SB1709TLCT-ND ***NEW!***	.50	10.00	30.00	3,000	150.00/M	2SB1709TL
	12	15	2	680	0.18	1A	50	2SB1690TLCT-ND	.58	11.60	34.80	3,000	174.00/M	2SB1690TL
	12	15	3	680	.25	1.5A	30	2SB1705TLCT-ND ***NEW!***	.49	9.70	29.10	3,000	146.00/M	2SB1705TL
	12	15	4	680	.25	2A	40	2SB1707TLCT-ND ***NEW!***	.78	15.66	46.98	3,000	248.00/M	2SB1707TL
	30	30	1	680	.35	500	25	2SB1710TLCT-ND ***NEW!***	.50	10.00	30.00	3,000	150.00/M	2SB1710TL
	30	30	1.5	680	.37	1A	50	2SB1695KT146CT-ND ***NEW!***	.49	9.06	25.52	3,000	104.00/M	2SB1695KT146
	30	30	1.5	680	0.37	1A	50	2SB1695TLCT-ND	.45	9.00	27.00	3,000	135.00/M	2SB1695TL
	30	30	3	680	0.25	1.5A	30	2SB1708TLCT-ND	.78	15.66	46.98	3,000	248.00/M	2SB1708TL
SPT	20	20	3	390	0.5	2A	100	2SA1585STPQCT-ND‡	.45	9.00	27.00	5,000	126.00/M	2SA1585STPQ
	20	20	3	390	0.5	2A	100	2SA1585STPRCT-ND‡	.45	9.00	27.00	5,000	126.00/M	2SA1585STPR
	50	60	0.15	560	0.5	50	5	2SA933ASTPQCT-ND‡	.49	7.25	18.85	5,000	58.00/M	2SA933ASTPQ
	50	60	0.15	560	0.5	50	5	2SA933ASTPRCT-ND‡	.44	6.50	16.90	5,000	52.00/M	2SA933ASTPR
	50	60	0.15	560	0.5	50	5	2SA933ASTPSCT-ND‡	.44	7.50	20.80	5,000	72.00/M	2SA933ASTPS
ATV	20	30	5	390	1	4A	100	2SB1326TV2QCT-ND‡	.74	14.80	44.40	2,500	222.00/M	2SB1326TV2Q
	20	30	5	390	1	4A	100	2SB1326TV2RCT-ND‡	.74	14.80	44.40	2,500	222.00/M	2SB1326TV2R
	50	60	3	390	1	2A	200	2SB1243TV2QCT-ND‡	.93	18.54	55.62	2,500	294.00/M	2SB1243TV2Q
	50	60	3	390	1	2A	200	2SB1243TV2RCT-ND‡	.93	18.54	55.62	2,500	294.00/M	2SB1243TV2R
	80	80	0.7	390	0.4	500	50	2SB1238TV2QCT-ND‡	.59	11.80	35.40	2,500	177.00/M	2SB1238TV2Q
	80	80	0.7	390	0.4	500	50	2SB1238TV2RCT-ND‡	.59	11.80	35.40	2,500	177.00/M	2SB1238TV2R
	80	80	1	390	0.4	500	50	2SB1241TV2QCT-ND‡	.52	10.30	30.90	2,500	155.00/M	2SB1241TV2Q
	80	80	1	390	0.4	500	50	2SB1241TV2RCT-ND‡	.49	9.70	29.10	2,500	146.00/M	2SB1241TV2R
	400	400	0.5	270	1	100	10	2SA1776TV2PCT-ND‡	.80	15.93	47.79	2,500	252.00/M	2SA1776TV2P
	400	400	0.5	270	1	100	10	2SA1776TV2QCT-ND‡	.80	15.93	47.79	2,500	252.00/M	2SA1776TV2Q
								NPN Darlington						
SOT-346	30	30	0.3	5,000min.	1.5	100	0.1	2SD2142KT146CT-ND	.42	8.13	23.40	3,000	111.00/M	2SD2142KT146
SOT-428	60	60	2	10,000	1.5	1A	1	2SD2143TLCT-ND	.75	15.03	45.09	2,500	238.00/M	2SD2143TL
	100	100	2	10,000	1.5	1A	1	2SD1980TLCT-ND	.74	14.80	44.40	2,500	222.00/M	2SD1980TL
SOT-89	60	60	1	2,000min.	1.5	500	0.5	2SD1834T100CT-ND	.71	14.20	42.60	1,000	227.00	2SD1834T100
	60	60	2	10,000	1.5	1A	1	2SD2212T100CT-ND	.69	13.86	41.58	1,000	239.00	2SD2212T100
	100	100	2	10,000	1.5	1A	1	2SD2195T100CT-ND	1.01	20.16	60.48	1,000	347.00	2SD2195T100
								PNP Darlington						
SOT-89	100	100	2	10,000	1.5	1A	1	2SB1580T100CT-ND	.92	18.36	55.08	1,000	316.00	2SB1580T100
SOT-346	32	40	0.3	5,000min.	1.5	200	0.4	2SB852KT146BCT-ND	.58	11.13	32.04	3,000	151.00/M	2SB852KT146B
SOT-428	100	100	2	10,000	1.5	1A	1	2SB1316TLCT-ND	1.03	22.34	68.75	2,500	366.00/M	2SB1316TL

† For Tape and Reel part number, change CT-ND to TR-ND.   ‡ For Tape and Box part number, change CT-ND to TB-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ROHM Diodes

Dimensions in mm

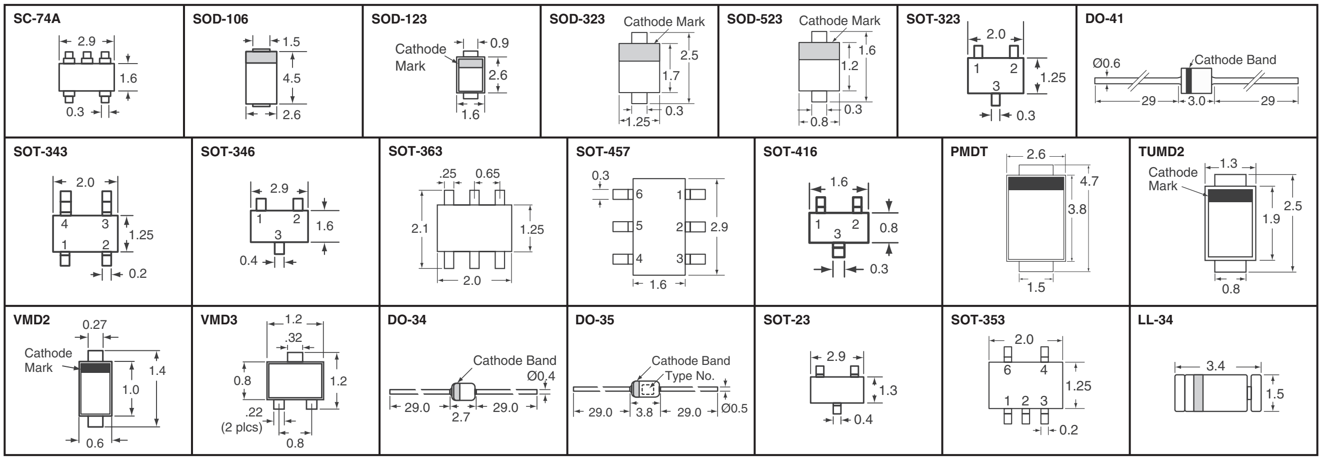

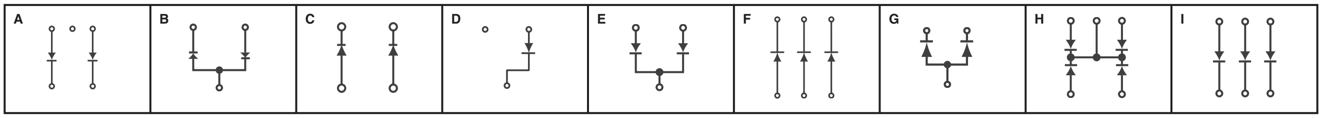

Schottky Barrier

Package	Circuits	IO (A)	VR (V)	IFSM (A)	VF (V) Max.	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel‡ Qty.	Pricing	Rohm Part No.
SC-74A	A	0.1	40	1	0.34	RB471ET148CT-ND	.50	9.63	27.72	3,000	131.00/M	RB471ET148
SOD-106	—	3.0	40	70	0.55	RB050L-40TE25CT-ND	.93	18.54	55.62	1,500	319.00/M	RB050L-40TE25
	—	3.0	20	70	0.45	RB051L-40TE25CT-ND	.61	12.10	36.30	1,500	194.00/M	RB051L-40TE25
	—	5	20	70	0.45	RB081L-20TE25CT-ND	1.04	20.79	62.37	1,500	358.00/M	RB081L-20TE25
	—	1	40	70	0.55	RB160L-40TE25CT-ND	.42	7.66	21.56	1,500	98.00/M	RB160L-40TE25
	—	1	20	70	0.40	RB161L-40TE25CT-ND	.42	8.13	23.40	1,500	117.00/M	RB161L-40TE25
SOD-123	—	1	20	30	0.35	RB161M-20CT-ND	.52	10.00	28.80	3,000	136.00/M	RB161M-20TR
	—	1.5	30	30	0.49	RB070M-30CT-ND	.50	10.00	30.00	3,000	150.00/M	RB070M-30TR
	—	1	30	30	0.48	RB160M-30CT-ND	.44	8.13	22.88	3,000	94.00/M	RB160M-30TR
	—	1	40	30	0.51	RB160M-40CT-ND	.42	8.13	23.40	3,000	111.00/M	RB160M-40TR
	—	1	60	30	0.55	RB160M-60CT-ND	.46	8.75	25.20	3,000	119.00/M	RB160M-60TR
	—	0.7	200	1	0.85	RF071M2SCT-ND	.55	10.50	30.24	3,000	143.00/M	RF071M2STR
SOD-323	—	0.1	40	1	0.45	RB500V-40TE-17CT-ND	.57	11.00	31.68	3,000	150.00/M	RB500V-40TE
	—	0.1	40	1	0.34	RB501V-40TE-17CT-ND	.50	9.22	25.96	3,000	106.00/M	RB501V-40TE
	—	0.03	30	2	0.37	RB751V-40TE-17CT-ND	.40	7.63	21.96	3,000	104.00/M	RB751V-40TE
SOD-523	—	0.03	30	2	0.37	RB751S-40TE61CT-ND	.44	8.13	22.88	3,000	94.00/M	RB751S-40TE61
	—	0.2	30	1	0.60	RB520S-30TE61CT-ND	.38	7.03	19.80	3,000	81.00/M	RB520S-30TE61
	—	0.2	30	1	0.50	RB521S-30TE61CT-ND	.38	7.03	19.80	3,000	81.00/M	RB521S-30TE61
	—	0.2	40	1	0.55	RB520S-40TE61CT-ND	.46	8.44	23.76	3,000	97.00/M	RB520S-40TE61
SOT-323	B	0.03	40	.2	—	RB706F-40T106CT-ND	.50	10.00	30.00	3,000	150.00/M	RB706F-40T
		0.03	40	.2	0.37	RB715FT106CT-ND	.42	7.13	19.76	3,000	76.00/M	RB715FT106
		0.03	40	.2	0.37	RB717FT106CT-ND	.46	8.75	25.20	3,000	119.00/M	RB717FT106
SOT-343	C	0.1	40	1	—	RB480KTLCT-ND	.53	10.13	29.16	3,000	138.00/M	RB480KTL
SOT-346	B	0.03	40	.2	—	RB706D-40T146CT-ND	.48	9.25	26.64	3,000	126.00/M	RB706D-40T
	D	0.5	40	3	0.55	RB400DT146CT-ND	.58	11.60	34.80	3,000	174.00/M	RB400DT146
	D	0.5	20	3	0.3	RB411DT146CT-ND	.49	9.06	25.52	3,000	104.00/M	RB411DT146
	D	0.1	40	1	0.45	RB420DT146CT-ND	.46	8.44	23.76	3,000	97.00/M	RB420DT146
	E	0.1	40	1	0.34	RB425DT146CT-ND	.44	8.38	24.12	3,000	114.00/M	RB425DT146
	D	—	20	3	0.45	RB491DT146CT-ND	.46	8.75	25.20	3,000	119.00/M	RB491DT146
	E	0.03	40	.2	0.37	RB705DT146CT-ND	.46	8.88	25.56	3,000	121.00/M	RB705DT146
SOT-363	—	0.1	30	1	0.53	RB530XNCT-ND	.55	11.00	33.00	3,000	165.00/M	RB530XNTR
	—	0.1	30	1	0.43	RB531XNCT-ND	.55	11.00	33.00	3,000	165.00/M	RB531XNTR
SOT-457	F	0.03	40	.2	0.37	RB731UT108CT-ND	.47	9.00	25.92	3,000	122.00/M	RB731UT108
SOT-416	E	0.03	40	.2	0.37	RB715WTLCT-ND	.50	9.63	27.72	3,000	131.00/M	RB715WTL
PMDT	—	3.0	30	70	0.45	RB050LA-30CT-ND	.93	18.54	55.62	3,000	294.00/M	RB050LA-30TR
	—	3.0	40	70	0.55	RB050LA-40CT-ND	.93	18.54	55.62	3,000	294.00/M	RB050LA-40TR
	—	3.0	30	70	0.42	RSX301LA-30CT-ND	.75	15.03	45.09	3,000	238.00/M	RSX301LA-30TR
TUMD2	—	1	20	5	0.42	RB161VA-20CT-ND	.52	10.00	28.80	3,000	136.00/M	RB161VA-20TR
	—	0.5	40	3	0.55	RB400VA-50CT-ND	.58	11.60	34.80	3,000	174.00/M	RB400VA-50TR
	—	0.5	30	5	0.39	RSX051VA-30CT-ND	.46	8.88	25.56	3,000	121.00/M	RSX051VA-30TR
	—	0.7	30	5	0.42	RSX071VA-30CT-ND	.46	8.88	25.56	3,000	121.00/M	RSX071VA-30TR
VMD2	—	.03	30	.2	0.37	RB751G-40T2RCT-ND	.52	10.00	28.80	8,000	128.00/M	RB751G-40T2R
VMD3	—	.03	30	.2	0.37	RB715ZT2LCT-ND	.57	10.88	31.32	8,000	139.00/M	RB715ZT2L

Switching Diodes

Package	Circuits	VRM (V)	VR (V)	IFM (mA)	IO (mA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel‡ Qty.	Pricing	Rohm Part No.
DO-34	—	90	80	400	130	1SS133T-77CT-ND†	.24	3.20	7.20	5,000	19.00/M	1SS133T-77
DO-35	—	100	75	450	150	1N4148T-73CT-ND	.20	2.68	6.03	5,000	16.00/M	1N4148T-73
DO-41	—	500	400	30A	1.0A	1SR153-400T-32CT-ND†	.48	9.25	26.64	2,500	126.00/M	1SR153-400T-32
SOD-106	—	400	—	30A	1.0A	1SR154-400TE25CT-ND	.34	5.81	16.12	1,500	71.00/M	1SR154-400TE25
	—	600	—	30A	1.0A	1SR154-600TE25CT-ND	.49	9.06	25.52	1,500	116.00/M	1ST154-600TE25
SOD-123	—	—	400	25A	0.7A	RR264M-400CT-ND	.44	7.50	20.80	3,000	80.00/M	RR264M-400

‡ For Tape and Reel part number, change CT-ND to TR-ND. † For Tape and Box part number, change CT-ND to TB-ND.

(Continued)

ROHM **Diodes** *(Cont.)*

Switching Diodes

Package	Circuits	VRM (V)	VR (V)	IFM (mA)	IO (mA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel‡ Qty.	Pricing	Rohm Part No.
SOD-323	—	90	80	225	100	1SS355TE-17CT-ND	.26	3.75	9.75	3,000	35.00/M	1SS355TE-17
	—	40	35	225	100	1SS380TE-17CT-ND	.43	6.25	16.25	3,000	59.00/M	1SS380TE-17
	—	—	50	50	—	RN731VTE-17CT-ND	.41	7.50	21.12	3,000	86.00/M	RN731VTE-17
SOD-523	—	90	80	225	100	1SS400TE61CT-ND	.34	5.00	13.00	3,000	47.00/M	1SS400TE61
SOT-23	G	85	70	450	—	BAW56T116CT-ND	.43	6.25	16.25	3,000	59.00/M	BAW56T116
SOT-323	E	80	80	300	100	DAN202UT106CT-ND	.44	6.50	16.90	3,000	61.00/M	DAN202UT106
	G	80	80	300	100	DAP202UT106CT-ND	.41	6.00	15.60	3,000	56.00/M	DAP202UT106
	E	—	35	—	—	DAN235UT106CT-ND	.43	7.31	20.28	3,000	78.00/M	DAN235UT106
SOT-343	C	80	80	300	100	DA227TLCT-ND	.40	7.75	22.32	3,000	105.00/M	DA227TL
SOT-346	E	80	80	300	100	DAN202KT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DAN202KT146
	G	80	80	300	100	DAP202KT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DAP202KT146
	B	80	80	300	100	DAN217T146CT-ND	.44	6.50	16.90	3,000	61.00/M	DAN217T146
	B	20	20	200	100	DA204KT146CT-ND	.49	7.25	18.85	3,000	68.00/M	DA204KT146
SOT-353	H	80	80	80	25	UMN1NCT-ND	.46	8.88	25.56	3,000	121.00/M	UMN1N
SOT-416	E	80	80	300	100	DAN222TLCT-ND	.49	7.25	18.85	3,000	68.00/M	DAN222TL
	G	80	80	300	100	DAP222TLCT-ND	.37	5.50	14.30	3,000	52.00/M	DAP222TL
	B	20	20	200	100	DA221TLCT-ND	.34	5.81	16.12	3,000	62.00/M	DA221TL
SOT-457	I	80	80	300	100	IMN10T108CT-ND	.41	7.88	22.68	3,000	107.00/M	IMN10T108
VMD2	—	90	80	225	100	1SS400GT2RCT-ND	.46	6.75	17.55	8,000	54.00/M	1SS400GT2R
VMD3	B	20	20	200	100	DA221MT2LCT-ND	.44	7.50	20.80	8,000	72.00/M	DA221MT2L
	E	80	80	300	100	DAN222MT2LCT-ND	.44	7.50	20.80	8,000	72.00/M	DAN222MT2L
	G	80	80	300	100	DAP222MT2LCT-ND	.49	7.25	18.85	8,000	58.00/M	DAP222MT2L
LL-34	—	250	220	625	200	RLS245TE-11CT-ND	.29	4.25	11.05	2,500	40.00/M	RLS245TE-11
	—	100	75	450	150	RLS4148TE-11CT-ND	.36	4.80	10.80	2,500	32.00/M	RLS4148TE-11
	—	100	75	450	150	RLS4448TE-11CT-ND	.34	5.00	13.00	2,500	47.00/M	RLS4448TE-11
	—	50	50	600	200	RLS4150TE-11CT-ND	.36	5.25	13.65	2,500	49.00/M	RLS4150TE-11
SC-74A	H	80	80	80	25	FMN1T148CT-ND	.44	8.50	24.48	3,000	116.00/M	RMN1T148

‡ For Tape and Reel part number, change CT-ND to TR-ND. † For Tape and Box part number, change CT-ND to TB-ND.

Zener Diodes

Dim. in mm

SOD-106

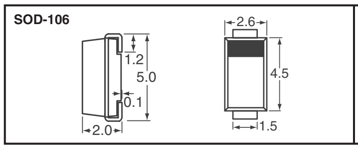

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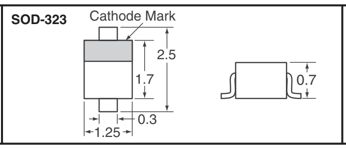

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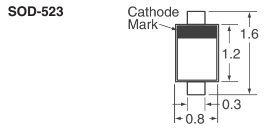

Specifications:

PTZ Series; 1000 mW
UDZ Series; 200 mW
EDZ Series; 150 mW

Package	Zener Voltage Min.	Max.	Resistance Ω Max.	@ Iz (mA)	Reverse Current IR (µA) Max.	VR (V)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel‡ Qty	Pricing	Rohm Part No.
SOD-106	4.300	4.800	15	40.0	20.0	1.0	PTZTE254.3BCT-ND	.50	9.63	27.72	1,500	139.00/M	PTZTE254.3B
	5.100	5.700	8	40.0	20.0	1.0	PTZTE255.1BCT-ND	.50	9.63	27.72	1,500	139.00/M	PTZTE255.1B
	7.500	8.400	4	40.0	20.0	4.0	PTZTE257.5BCT-ND	.50	9.63	27.72	1,500	139.00/M	PTZTE257.5B
	12.000	13.500	8	20.0	10.0	9.0	PTZTE2512BCT-ND	.50	9.63	27.72	1,500	139.00/M	PTZTE2512B
	18.000	20.300	12	20.0	10.0	13.0	PTZTE2518BCT-ND	.50	9.63	27.72	1,500	139.00/M	PTZTE2518B
	27.000	30.800	16	10.0	10.0	21.0	PTZTE2527BCT-ND	.50	9.63	27.72	1,500	139.00/M	PTZTE2527B
SOD-323	3.600	3.845	100	5.0	10.0	1.0	UDZSTE-173.6BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-173.6B
	3.890	4.160	100	5.0	5.0	1.0	UDZSTE-173.9BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-173.9B
	4.170	4.430	100	5.0	5.0	1.0	UDZSTE-174.3BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-174.3B
	4.980	5.200	80	5.0	2.0	1.5	UDZSTE-175.1BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-175.1B
	5.490	5.730	60	5.0	1.0	2.5	UDZSTE-175.6BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-175.6B
	6.060	6.330	60	5.0	1.0	3.0	UDZSTE-176.2BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-176.2B
	6.650	6.930	40	5.0	0.5	3.5	UDZSTE-176.8BCT-ND	.41	6.00	15.60	3,000	56.00/M	UDZSTE-176.8B
	7.280	7.600	30	5.0	0.5	4.0	UDZSTE-177.5BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-177.5B
	8.850	9.230	30	5.0	0.5	6.0	UDZSTE-179.1BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-179.1B
	9.770	10.210	30	5.0	0.1	7.0	UDZSTE-1710BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-1710B
	11.740	12.240	30	5.0	0.1	9.0	UDZSTE-1712BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-1712B
	14.340	14.980	42	5.0	0.1	11.0	UDZSTE-1715BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-1715B
	17.560	18.350	65	5.0	0.1	13.0	UDZSTE-1718BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-1718B
	21.540	22.470	100	5.0	0.1	17.0	UDZSTE-1722BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-1722B
	26.190	27.530	150	5.0	0.1	21.0	UDZSTE-1727BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-1727B
SOD-523	3.600	3.845	100	5.0	10.0	1.0	EDZTE613.6BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE613.6B
	3.890	4.160	100	5.0	5.0	1.0	EDZTE613.9BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE613.9B
	4.170	4.430	100	5.0	5.0	1.0	EDZTE614.3BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE614.3B
	4.550	4.750	100	5.0	2.0	1.0	EDZTE614.7BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE614.7B
	6.650	6.930	40	5.0	0.5	3.5	EDZTE616.8BCT-ND	.43	7.31	20.28	3,000	78.00/M	EDZTE616.8B
	7.280	7.600	30	5.0	0.5	4.0	EDZTE617.5BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE617.5B
	8.020	8.360	30	5.0	0.5	5.0	EDZTE618.2BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE618.2B
	8.850	9.230	30	5.0	0.5	6.0	EDZTE619.1BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE619.1B
	9.770	10.210	30	5.0	0.1	7.0	EDZTE6110BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6110B
	10.760	11.220	30	5.0	0.1	8.0	EDZTE6111BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6111B
	11.740	12.240	30	5.0	0.1	9.0	EDZTE6112BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6112B
	12.910	13.490	37	5.0	0.1	10.0	EDZTE6113BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6113B
	14.340	14.980	42	5.0	0.1	11.0	EDZTE6115BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6115B
	15.850	16.510	50	5.0	0.1	12.0	EDZTE6116BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6116B
	17.560	18.350	65	5.0	0.1	13.0	EDZTE6118BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6118B
	19.520	20.390	85	5.0	0.1	15.0	EDZTE6120BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6120B
	21.540	22.470	100	5.0	0.1	17.0	EDZTE6122BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6122B
	23.720	24.780	120	5.0	0.1	19.0	EDZTE6124BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6124B
	26.190	27.530	150	2.0	0.1	21.0	EDZTE6127BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6127B
	29.190	30.690	200	2.0	0.1	23.0	EDZTE6130BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6130B
	32.150	33.790	250	2.0	0.1	25.0	EDZTE6133BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6133B
	35.070	36.870	300	2.0	0.1	27.0	EDZTE6136BCT-ND	.38	7.03	19.80	3,000	81.00/M	EDZTE6136B

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Zener Diode Array — SOT-353

Digi-Reel®

Dim. in mm

Fig.	Voltage Min.	Max.	Resistance Max.	Reverse Current	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel‡ Qty.	Pricing	Rohm Part No.
1	6.47	7.14	40Ω	0.5µA	UMZ6.8ENCT-ND	.46	8.44	23.76	3,000	97.00/M	UMZ6.8EN
2	6.47	7.14	—	0.5µA	VMZ6.8NT2LCT-ND	.47	8.59	24.20	8,000	94.00/M	VMZ6.8NT2L

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

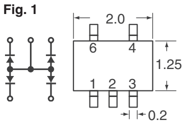

Fig. 2

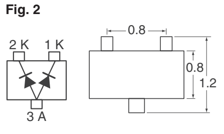

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Teccor® Brand Thyristor

Alternistor Triacs 8 to 40 Amps

General Description:

Teccor's Alternistor Triac has been specifically designed for applications which are required to switch highly inductive loads.

To accomplish this, a special chip has been designed which effectively offers the same performance as two thyristors (SCRs) wired inverse parallel (back-to-back), hence, the alternistor has better turn-off behavior than a standard triac. All Alternistors have glass passivated junctions to ensure long term reliability and parameter stability.

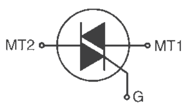

TO-220AB - Isolated

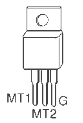

TO-218X

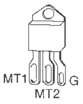

TO-218AC

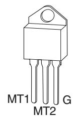

TO-220AB - Non-Isolated

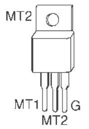

D2-PAK (SMT)

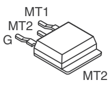

TO-251 V-PAK

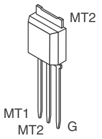

TO-252 D-PAK (SMT)

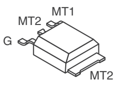

Package	IT RMS (A)	VDRM (V)	IGT (mA)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel§ Qty.	Pricing
Isolated (File E71639) — RoHS Compliant									
TO-220AB	6.0	600	35	Q6006LH4-ND	1.41	1.25	1.13	—	—
TO-220AB	8.0	400	35	Q4008LH4-ND	1.29	1.15	1.04	—	—
		600		Q6008LH4-ND	1.43	1.28	1.15	—	—
		800		Q8008LH4-ND	1.71	1.52	1.37	—	—
TO-220AB	12.0	400	50	Q4012LH5-ND	1.50	1.34	1.20	—	—
		600		Q6012LH5-ND	1.66	1.48	1.33	—	—
TO-220AB	16.0	400	20	Q4016LH3-ND	1.85	1.64	1.48	—	—
		600		Q6016LH3-ND	2.05	1.83	1.65	—	—
		200	35	Q2016LH4-ND	1.62	1.44	1.30	—	—
		600		Q6016LH4-ND	1.98	1.77	1.59	—	—
		800		Q8016LH4-ND	2.35	2.10	1.89	—	—
		400	80	Q4016LH6-ND	1.68	1.50	1.35	—	—
		600		Q6016LH6-ND	1.87	1.66	1.50	—	—
		800		Q8016LH6-ND	2.21	1.97	1.78	—	—
TO-220AB	25.0	200	80	Q2025L6-ND	2.26	2.01	1.81	—	—
		400		Q4025L6-ND	2.49	2.22	2.00	—	—
		600		Q6025L6-ND	2.77	2.46	2.22	—	—
		800		Q8025L6-ND	3.30	2.94	2.64	—	—
TO-218AC	25.0	800	80	Q8025K6-ND	6.44	5.72	5.15	—	—
TO-220AB	30.0	600	50	Q6030LH5-ND	3.07	2.73	2.46	—	—

Package	IT RMS (A)	VDRM (V)	IGT (mA)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel § Qty.	Pricing
TO-218X	40.0	400	100	Q4040J7-ND	7.17	6.38	5.74	—	—
		600		Q6040J7-ND	7.96	7.08	6.37	—	—
TO-218AC	40.0	200	100	Q2040K7-ND	5.90	5.25	4.73	—	—
		400		Q4040K7-ND	6.50	5.79	5.21	—	—
		600		Q6040K7-ND	7.20	6.40	5.76	—	—
		800		Q8040K7-ND	8.56	7.61	6.85	—	—
Non-Isolated									
D2-PAK	8.0	600	35	Q6008NH4RPCT-ND†	2.56	2.10	1.78	500	557.60
		800		Q8008NH4RPCT-ND†	3.04	2.50	2.11	500	662.15
TO-252 D-PAK	8.0	600	10	Q6008DH3RPCT-ND†	1.06	.95	.85	2,500	660.80/M
TO-220AB	16.0	600	20	Q6016RH3-ND	1.85	1.64	1.48	—	—
		400	35	Q4016RH4-ND	1.62	1.44	1.30	—	—
		200	80	Q2016RH6-ND	1.38	1.23	1.11	—	—
		600		Q6016RH6-ND	1.68	1.50	1.35	—	—
D-PAK	16.0	800		Q8016NH4RPCT-ND†	4.20	3.45	2.91	500	914.60
TO-220AB	25.0	200	80	Q2025R6-ND	2.03	1.81	1.63	—	—
		400		Q4025R6-ND	2.24	1.99	1.79	—	—
		600		Q6025R6-ND	2.49	2.22	2.00	—	—
		800		Q8025R6-ND	2.95	2.63	2.37	—	—

† Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND.

Logic Triacs (1.0-8.0 Amps) and Gated Triacs (1-35 Amps)

IT RMS (A)	VDRM (V)	Package	IDRM @25°C (mA)	IGT (mA)	VGT (mA)	IH (mA)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel§ Qty.	Pricing
Logic Triacs, Isolated — RoHS Compliant												
0.8	400	COMPAK	.01	3	2	5	L4X3CT-ND	1.24	1.02	.86	2,500	540.60/M
	400			5		10	L4X5CT-ND	1.20	.99	.84	2,500	523.60/M
1.0	200	TO-92	.01	3	2	5	L201E3-ND	.67	.60	.54	—	—
	400						L401E3-ND	.72	.64	.58	—	—
	600						L601E3-ND	.81	.72	.65	—	—
	200	TO-92	.01	5	2	10	L201E5-ND	.65	.58	.52	—	—
	400						L401E5-ND	.67	.60	.54	—	—
	600						L601E5-ND	.76	.68	.61	—	—
4.0	200	TO-220AB	.01	3	2	5	L2004L3-ND	1.20	1.07	.96	—	—
	400						L4004L3-ND	1.25	1.11	1.00	—	—
	600						L6004L3-ND	1.43	1.28	1.15	—	—
	600	TO-220AB	.01	5	2	10	L6004L5-ND	1.36	1.21	1.09	—	—
8.0	400	TO-220AB	.02	5	2	10	L4008L6-ND	1.36	1.21	1.09	—	—
	600						L6008L6-ND	1.55	1.38	1.24	—	—
	600	TO-220AB	.02	10	2	20	L6008L8-ND	1.45	1.30	1.17	—	—
Logic Triacs, Non-Isolated												
6.0	400	TO-252AA	.02	5	2	10	L4006D5CT-ND†	1.60	1.32	1.11	2,500	697.00/M
8.0	400	TO-252AA	.02	5	2	10	L4008D6CT-ND†	1.64	1.35	1.14	2,500	714.00/M
Gated Triacs, Isolated — RoHS Compliant												
0.8	400	COMPAK	.02	10	2	15	Q4X3CT-ND	1.04	.86	.73	2,500	453.90/M
1.0	400	COMPAK	.02	10	2	15	Q4N3CT-ND	1.24	1.02	.86	2,500	540.60/M
	600						Q6N3CT-ND	1.48	1.22	1.03	2,500	644.30/M
	200	TO-92	.02	10	2	15	Q201E3-ND	.58	.52	.47	—	—
	400						Q401E3-ND	.65	.58	.52	—	—
	600						Q601E3-ND	.76	.68	.61	—	—
4.0	200	TO-220AB	.05	10	2	20	Q2004L3-ND	.99	.89	.80	—	—
	400						Q4004L3-ND	1.08	.97	.87	—	—
	600						Q6004L3-ND	1.29	1.15	1.04	—	—
	600	TO-220AB	.05	25	2.5	30	Q6004L4-ND	1.22	1.09	.98	—	—
	800						Q8004L4-ND	1.41	1.25	1.13	—	—
8.0	200	TO-220AB	.05	25	2.5	50	Q2008L4-ND	1.18	1.05	.95	—	—
	400			25			Q4008L4-ND	1.29	1.15	1.04	—	—
	600			50			Q6008L5-ND	1.43	1.28	1.15	—	—
10.0	400	TO-220AB	.05	25	2.5	35	Q4010L4-ND	1.48	1.32	1.19	—	—
	600						Q6010L4-ND	1.75	1.56	1.41	—	—
	200	TO-220AB	.05	50	2.5	50	Q2010L5-ND	1.27	1.13	1.02	—	—
	400					35	Q4010L5-ND	1.41	1.25	1.13	—	—
	600					35	Q6010L5-ND	1.66	1.48	1.33	—	—
15.0	200	TO-220AB	.05	50	2.5	70	Q2015L5-ND	1.52	1.36	1.22	—	—
	400						Q4015L5-ND	1.68	1.50	1.35	—	—
	600						Q6015L5-ND	1.98	1.77	1.59	—	—
25.0	600	TO-3	.1	50	2.75	50	Q6025P5-ND	7.98	7.10	6.39	—	—
35.0	600	TO-3	.1	50	2.75	50	Q6035P5-ND	9.71	8.63	7.77	—	—
Gated Triacs, Non-Isolated												
4.0	400	TO-252AA	.05	10	2	20	Q4004D3CT-ND†	1.44	1.19	1.00	2,500	627.30/M
6.0	400	D2-PAK	.05	25	2.5	50	Q4006N4RPCT-ND◆†	2.12	1.74	1.47	500	461.55
8.0	400	TO-220AB	.05	25	2.5	50	Q4008R4-ND◆	1.18	1.05	.95	—	—
	600			50			Q6008R5-ND◆	1.31	1.17	1.06	—	—
	600	D2-PAK	.05	50	2.5	50	Q6008N5RPCT-ND◆†	2.56	2.10	1.78	500	557.60
10.0	400	TO-220AB	.05	50	2.5	50	Q4010R5-ND◆	1.29	1.15	1.04	—	—
	400	D2-PAK	.05	50	2.5	50	Q4010N5RPCT-ND◆†	2.48	2.04	1.72	500	540.60
15.0	200	TO-220AB	.05	50	2.5	70	Q2015R5-ND◆	1.41	1.25	1.13	—	—
	400						Q4015R5-ND◆	1.55	1.38	1.24	—	—
	600						Q6015R5-ND◆	1.85	1.64	1.48	—	—
25.0	600	TO-220AB	.1	50	2.5	100	Q6025R5-ND◆	2.35	2.10	1.89	—	—
	600	D2-PAK	.1	50	2.5	100	Q6025N5RPCT-ND◆†	4.52	3.71	3.13	500	984.30

◆ ***RoHS Compliant*** † Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND.

ISOLATED

Plastic TO-92

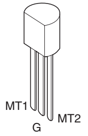

Thermotab TO-220AB

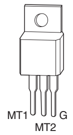

TO-3 Base / FASTPAK (SMT)

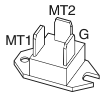

COMPAK

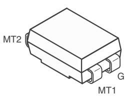

NON-ISOLATED

TO-202AB

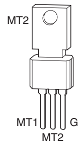

TO-220AB

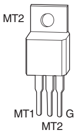

TO-251AA

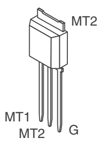

SMT TO-252AA

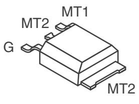

D2 PAK (SMT)

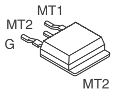

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Bilateral Trigger Diacs HT and ST Series

Specifications: • Maximum Ratings, Absolute-Maximum Values • Maximum Trigger Firing Capacitance – 0.1µF; Device dissipation (at T_A = -40°C ~ 40°C) – 250mW; Derate Above 40°C – 3.6mW/°C • Temperature Ranges: Storage -40°C ~ 125°C; Operating (Junction) -40°C ~ 125°C • Thermal Resistance: Junction to Ambient ($R_{\theta JA}$) = 278°C/W (DO-35); Junction to Lead ($R_{\theta JL}$) = 100°C/W (DO-35); 65°C/W (DO-214AA) based on maximum lead temperature of 85°C (DO-35) and 90°C (DO-214AA)

$V_{(BO)}$ (V) Min.	Max.	$V_{(BO)}$ Symmetry (V) Max.	Dynamic Breakback Voltage (V)	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel§ Qty.	Pricing
				HT Series — DO-35 — RoHS Compliant					
27	37	3	10	HT32-ND	.16	1.44	12.96	—	—
35	45	3	10	HT40-ND	.14	1.24	11.16	—	—
30	40	3	10	HT35-ND	.14	1.24	11.16	—	—
28	36	4	7	HT32A-ND	.18	1.64	14.76	—	—
30	34	2	7	HT32B-ND	.23	2.06	18.54	—	—
32	36	2	10	HT34B-ND	.23	2.06	18.54	—	—
				ST Series — DO-214AA					
32	36	2	10	ST-34BCT-ND†	.88	7.23	61.02	2,500	361.60/M
30	40	3	10	ST-35CT-ND◆†	.56	4.61	38.88	2,500	244.80/M

◆ *RoHS Compliant* † Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND.

DO-35

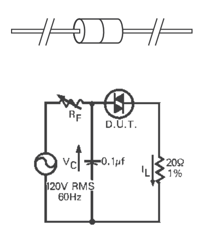

DO-214AA

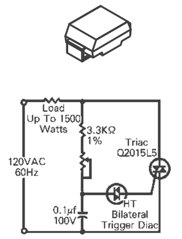

Sidacs

General Notes: • All measurements are made at 60Hz with a resistive load at an ambient temperature of 25°C unless otherwise specified • Storage temperature range (TS) is -65°C ~ 150°C • Junction temperature range (TJ) is -40°C ~ 110°C • Lead solder temperature is a maximum of 230°C for 10 seconds maximum; ≥ 1/16" (1.59mm) from case.

Fig. 1

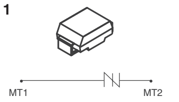

Fig. 2

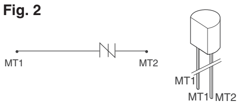

Fig. 3

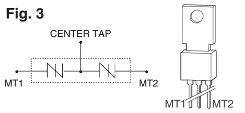

Fig. 4

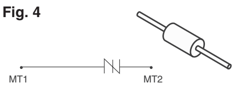

Fig.	Package	$I_{T(RMS)}$ (A)	V_{DRM} (V)	V_{BO} Min.	Max.	I_{DRM} (µA)	I_{BO} (µA)	Digi-Key Part No.	Price Each 1	10	100	250
1	DO-214	1.0	±90	95	113	5	10	K1050SRPCT-ND†◆	.96	.79	.67	.57
			±90	95	113	5	10	K1050SRPTR-ND§◆		1045.00/2,500		
2	TO-92	1.0	±90	95	113	5	10	K1050E70-ND◆	.51	.46	.41	.34
			±90	104	118	5	10	K1100E70-ND◆	.51	.46	.41	.34
			±90	110	125	5	10	K1200E70-ND◆	.51	.46	.41	.34
			±90	120	138	5	10	K1300E70-ND◆	.51	.46	.41	.34
			±90	130	146	5	10	K1400E70-ND	.53	.48	.43	.36
			±90	140	170	5	10	K1500E70-ND◆	.53	.48	.43	.36
			±180	190	215	5	10	K2000E70-ND◆	.60	.54	.49	.41
			±180	205	230	5	10	K2200E70-ND◆	.60	.54	.49	.41
			±190	220	250	5	10	K2400E70-ND◆	.65	.58	.52	.44
			±190	240	280	5	10	K2500E70-ND◆	.65	.58	.52	.44
3	TO-202AB (Non-Isolated)	1.0	±90	110	125	5	10	K1200G-ND◆	.53	.48	.43	.36
4	DO-15X	1.0	±90	120	138	5	10	K1300G-ND◆	.53	.48	.43	.36
			±90	140	170	5	10	K1500G-ND◆	.58	.52	.47	.39
			±180	190	215	5	10	K2000G-ND◆	.65	.58	.52	.44
			±190	220	250	5	10	K2400G-ND◆	.69	.62	.56	.47
			±200	240	280	5	10	K2500G-ND◆	.69	.62	.56	.47

◆ *RoHS Compliant* † Cut Tape § Tape and Reel

Glass Passivated Silicon Rectifiers

RoHS COMPLIANT

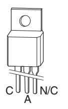

Package	$I_{T RMS}$ (A)	V_{RRM} (V)	I_{FSM} (A)	V_{FM} (V)	Digi-Key Part No.	Price Each 1	10	100	250	500	1,000
TO-220AB (Isolated)	15	200	225	1.6	D2015L-ND	1.15	1.03	.93	.77	.67	.65
	15	400	225	1.6	D4015L-ND	1.22	1.09	.98	.82	.71	.68
	15	600	225	1.6	D6015L-ND	1.29	1.15	1.04	.87	.75	.72
	20	400	300	1.6	D4020L-ND	1.36	1.21	1.09	.91	.79	.76
	20	600	300	1.6	D6020L-ND	1.43	1.28	1.15	.96	.83	.80
	20	800	300	1.6	D8020L-ND	1.52	1.36	1.22	1.02	.89	.85
	25	400	350	1.6	D4025L-ND	1.64	1.46	1.32	1.10	.95	.91
	25	600	350	1.6	D6025L-ND	1.73	1.54	1.39	1.16	1.00	.97

Sensitive Gate SCRs Non-Isolated

I_T RMS (A)	V_{DRM} V_{RRM} (V)	Package	I_{GT} (µA)	I_{DRM} I_{RRM} @25°C (µA)	V_{TM} @25°C (V)	V_{GT} @25°C (V)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	Digi-Key Part No.	Tape and Reel Pricing 2,500
0.8	200	COMPAK	200	2.0	1.7	0.8	5.0	S2SCT-ND◆	.80	.66	.56	.48	S2STR-ND◆	348.50/M
	400							S4SCT-ND◆	.88	.73	.62	.52	S4STR-ND◆	384.20/M
	600							S6SCT-ND	1.12	.92	.78	.67	S6STR-ND	487.90/M
	200	COMPAK	50	2.0	1.7	0.8	5.0	S2S2CT-ND◆	.92	.76	.64	.55	S2S2TR-ND◆	401.20/M
	400							S4S2CT-ND◆	1.00	.82	.70	.59	S4S2TR-ND◆	435.20/M
	600							S6S2CT-ND◆	1.24	1.02	.86	.74	S6S2TR-ND◆	540.60/M

◆ *RoHS Compliant*

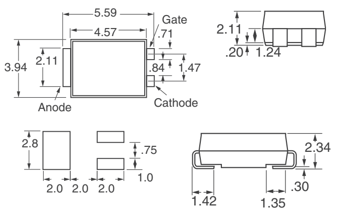

Internally Triggered Quadrac® Triacs (4.0-15 Amps)

RoHS COMPLIANT

General Description: QUADRAC is a triac that includes a diac trigger mounted inside the same package. This device saves the user the expense and assembly time of buying a discrete diac and assembling in conjunction with a gated triac. QUADRAC is a bidirectional AC switch and is gate controlled for either polarity of main terminal voltage. Its primary purpose is for AC switching and phase control applications such as speed controls, temperature modulation controls, and lighting controls.

Features: • Glass passivated junctions • Electrically isolated package • Internal trigger diac • High surge capability - up to 150 Amps • High voltage capability - 200 up to 600 volts • IDRM @25°C: .05mA • VTM @25°C: 1.6V • Capacitance: 0.1µF • tgt: 3µsec. **Electrical Isolation:** Isolated TO-220 Quadrac package will withstand a minimum high potential test of 2500VAC (RMS) from leads to case over the operating temperature range of the device. **Electrical Isolation From Leads to Case:** U.L. Recognized File No. 71639

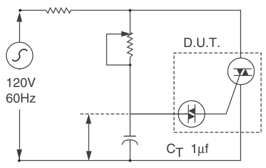

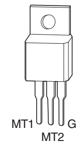

Thermotab TO-220AB (Isolated)

I_T RMS (A)	V_{DRM} (V)	I_{GTM} (A)	VBO (V) Min.	Max.	I_{BO} (µA)	I_H (mA)	Digi-Key Part No.	Price Each 1	10	100
4.0	200	1.2	33	43	25	40	Q2004LT-ND	1.11	.99	.89
	400						Q4004LT-ND	1.20	1.07	.96
	600						Q6004LT-ND	1.43	1.28	1.15
8.0	200	1.5	33	43	25	60	Q2008LT-ND	1.34	1.19	1.08
	400						Q4008LT-ND	1.45	1.30	1.17
	600						Q6008LT-ND	1.73	1.54	1.39
	600						Q6008LTH-ND‡	1.78	1.58	1.43
10.0	400	1.5	33	43	25	60	Q4010LT-ND	1.59	1.42	1.28
	600						Q6010LTH-ND‡	1.91	1.71	1.54
15.0	400	1.5	33	43	25	70	Q4015LT-ND	1.80	1.60	1.44
	600						Q6015LT-ND	2.14	1.91	1.72
	600						Q6015LTH-ND‡	2.19	1.95	1.76

‡ No snubber network required, best dv/dt and noise immunity.

Sensitive Gate (0.8-10 Amps) and Non-Sensitive Gate (1-70 Amps) SCRs

Thyristor SCR semi-conductors are half-wave, unidirectional, gate-controlled rectifiers. Both Sensitive Gate and Non-Sensitive Gate SCRs in a choice of 3 different electrically isolated packages and 5 non-isolated packages. Electrically Isolated Packages: Isolate the case or tab internally to allow the use of low cost assembly and convenient packaging techniques. Teccor offers electrical isolation in the TO-92, TO-220AB, and TO-218 type packages. Glass Passivation: SCRs feature glass passivated device junctions to ensure long term device reliability and parameter stability. Glass offers a rugged, reliable barrier against junction contamination.

Sensitive Gate Type: The sensitive SCR semiconductors complement the line of power SCRs. **Features:** • Current Ratings: 0.8-10 Amps • Voltage Ratings: 30-600 Volts • Gate Sensitivities: 12-500 microamps • Surge Current: up to 100 Amps

Non-Sensitive Gate Type: The thyristor SCR semiconductors complement the line of sensitive gate SCRs. **Features:** • Current Ratings: 1-70 Amps • Voltage Ratings: 100-800 Volts • Gate Sensitivities: 10-50 milliamps • Surge Current: up to 950 Amps

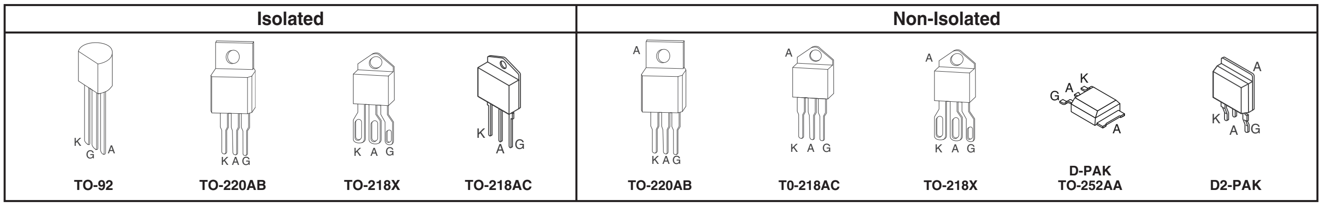

I_T RMS (A)	V_{DRM} & V_{RRM} (V)	Package	I_{GT} (mA)		I_{DRM} & I_{RRM} @25°C (mA)	V_{TM} @25°C (V)	V_{GT} @25°C (V)	$P_{G(AV)}$ (W)	t_{gt} (µsec.)	Digi-Key Part No.	Price Each			Tape and Reel§	
			Min.	Max.							1	10	100	Qty.	Pricing
Sensitive Gate — Isolated															
0.8	200	TO-92	—	.200	.001‡	1.7	0.8	0.1	2.2	2N5064-ND◆	.39	.35	.32	—	—
	200				.001				3.5	EC103B-ND◆	.32	.29	.26	—	—
	400				.001				3.5	EC103D-ND◆	.37	.33	.30	—	—
	600				.002				3.5	EC103M-ND◆	.44	.39	.36	—	—
0.8	600	TO-92	—	0.012	.002	1.7	0.8	0.1	2.0	EC103M1-ND◆	.53	.48	.43	—	—
1.5	200	TO-92	—	.200	.001	1.5	0.8	0.1	2.2	TCR22-4-ND◆	.39	.35	.32	—	—
	400				.001					TCR22-6-ND◆	.44	.39	.36	—	—
	600				.002					TCR22-8-ND	.53	.48	.43	—	—
6.0	400	TO-220AB	—	.200	.005	1.6	0.8	0.1	4.0	S4006LS2-ND◆	.99	.89	.80	—	—
8.0	200	TO-220AB	—	.200	.005	1.6	0.8	0.1	4.0	S2008LS2-ND◆	.99	.89	.80	—	—
	400								2.2	S4008LS2-ND◆	1.08	.97	.87	—	—
10.0	400	TO-220AB	—	.200	.005	1.6	0.8	0.1	2.2	S4010LS2-ND◆	1.18	1.05	.95	—	—
Sensitive Gate — Non-Isolated															
4.0	200	TO-252AA	—	.200	.002	2.2	0.8	0.1	4.0	S2004DS2CT-ND†	1.04	.86	.73	2,500	453.90/M
	400									S4004DS2CT-ND†	1.12	.92	.78	2,500	487.90/M
6.0	200	TO-252AA	—	.200	.005	1.6	0.8	0.1	4.0	S2006DS2CT-ND†	1.08	.89	.75	2,500	470.90/M
	600									S6006DS2CT-ND†	1.44	1.19	1.00	2,500	627.30/M
8.0	200	TO-252AA	—	.200	.005	1.6	0.8	0.1	4.0	S2008DS2CT-ND†	1.16	.95	.81	2,500	504.90/M
Non-Sensitive Gate — Isolated															
1.0	200	TO-92	1	10	.01	1.6	1.5	0.3	2.0	S201E-ND◆	.51	.46	.41	—	—
	400									S401E-ND◆	.53	.48	.43	—	—
	600									S601E-ND	.58	.52	.47	—	—
6.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2006L-ND◆	.88	.78	.71	—	—
	400									S4006L-ND◆	.92	.82	.74	—	—
	600									S6006L-ND◆	.99	.89	.80	—	—
8.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2008L-ND◆	.99	.89	.80	—	—
	400									S4008L-ND◆	1.04	.93	.83	—	—
	600									S6008L-ND◆	1.11	.99	.89	—	—
10.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2010L-ND◆	1.08	.97	.87	—	—
	400				.01					S4010L-ND◆	1.15	1.03	.93	—	—
	600				.01					S6010L-ND◆	1.22	1.09	.98	—	—
	800				.02					S8010L-ND◆	1.31	1.17	1.06	—	—
15.0	400	TO-220AB	1	30	.01	1.6	1.5	0.6	2.0	S4015L-ND◆	1.25	1.11	1.00	—	—
	600				.01					S6015L-ND◆	1.31	1.17	1.06	—	—
	800				.02					S8015L-ND◆	1.41	1.25	1.13	—	—
20.0	200	TO-220AB	1	30	.01	1.6	1.5	0.6	2.0	S2020L-ND◆	1.31	1.17	1.06	—	—
	400				.01					S4020L-ND◆	1.41	1.25	1.13	—	—
	600				.01					S6020L-ND◆	1.50	1.34	1.20	—	—
	800				.02					S8020L-ND◆	1.59	1.42	1.28	—	—
25.0	200	TO-220AB	1	35	.01	1.6	1.5	0.8	2.0	S2025L-ND◆	1.55	1.38	1.24	—	—
	400				.01					S4025L-ND◆	1.66	1.48	1.33	—	—
	600				.01					S6025L-ND◆	1.75	1.56	1.41	—	—
	800				.02					S8025L-ND◆	1.87	1.66	1.50	—	—
35.0	200	TO-218AC	5	40	.01	1.8	1.5	0.8	2.0	S2035K-ND◆	3.37	3.00	2.70	—	—
	400				.01					S4035K-ND◆	3.60	3.20	2.88	—	—
	600	TO-218	5	40	.01	1.8	1.5	0.8	2.0	S6035K-ND◆	3.83	3.41	3.07	—	—
	800				.02	1.8	1.5	0.8	2.0	S8035K-ND◆	4.06	3.61	3.25	—	—
65.0	200	TO-218X	5	50	.02	1.8	2.0	1.0	2.5	S2065J-ND◆	5.51	4.90	4.41	—	—
	400									S4065J-ND◆	5.90	5.25	4.73	—	—
	600									S6065J-ND◆	6.30	5.60	5.04	—	—
	200	TO-218AC	5	50	.02	1.8	2.0	1.0	2.5	S2065K-ND◆	5.40	4.80	4.32	—	—
	400									S4065K-ND◆	5.79	5.15	4.64	—	—
	800	TO-218	5	50	.02	1.8	2.0	1.0	2.5	S8065K-ND◆	6.53	5.81	5.23	—	—
Non-Sensitive Gate — Non-Isolated															
6.0	200	TO-252AA	1	15	.01	1.6	1.5	0.5	2.0	S2006DCT-ND◆†	1.12	.92	.78	2,500	487.90/M
	400									S4006DCT-ND◆†	1.20	.99	.84	2,500	523.60/M
8.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2008R-ND◆	.88	.78	.71	—	—
	400									S4008R-ND◆	.95	.84	.76	—	—
	600									S6008R-ND◆	1.01	.91	.82	—	—
12.0	400	TO-220AB	1	20	.01	1.6	1.5	0.5	2.0	S4012R-ND◆	1.08	.97	.87	—	—
	800	TO-252AA	1	20	.01	1.6	1.5	0.5	2.0	S8012DCT-ND†	1.76	1.45	1.22	2,500	766.70/M
16.0	400	D2-PAK	1	30	.01	1.6	1.5	0.6	2.0	S4016NRPCT-ND◆†	2.28	1.87	1.58	500	496.40
	600				.01					S6016NRPCT-ND◆†	2.40	1.97	1.67	500	522.75
	800				.02					S8016NRPCT-ND◆†	2.56	2.10	1.78	500	557.60
25.0	600	TO-220AB	1	35	.01	1.6	1.5	0.8	2.0	S6025R-ND◆	1.59	1.42	1.28	—	—
	800				.02					S8025R-ND◆	1.68	1.50	1.35	—	—
	600	D2-PAK	1	35	.01	1.6	1.5	0.8	2.0	S6025NRPCT-ND◆†	3.12	2.56	2.16	500	680.00
	800				.02					S8025NRPCT-ND◆†	3.32	2.73	2.30	—	—
40.0	400	TO-220AB	5	40	.01	1.8	1.5	0.8	2.5	S4040R-ND◆	2.51	2.24	2.02	—	—
	800				.02					S8040R-ND◆	2.86	2.55	2.29	—	—
	1000				.03					SK040R-ND◆	3.02	2.69	2.42	—	—
55.0	800	TO-218AC	5	40	.02	1.8	1.5	0.8	2.5	S8055M-ND◆	3.97	3.53	3.18	—	—
	200	TO-218X	5	40	.01	1.8	1.5	0.8	2.5	S2055W-ND◆	3.71	3.30	2.97	—	—
	200	TO-220AB	5	40	.01	1.8	1.5	0.8	2.5	S2055R-ND◆	2.47	2.20	1.98	—	—
	600				.01					S6055R-ND◆	2.81	2.51	2.26	—	—
	800				.02					S8055R-ND◆	3.00	2.67	2.40	—	—
70.0	600	TO-218X	5	50	.02	1.8	2.0	1.0	2.5	S6070W-ND◆	5.83	5.19	4.67	—	—

◆ ***RoHS Compliant*** ‡ .05mA@125°C † Cut Tape § For Tape and Reel part number, change CT-ND to TR-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TOSHIBA MOSFETs

Fig.	Package Type	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel* Qty.	Pricing
							P-Channel					
1	TO-3PL	-200	0.625★	-12	—	150	2SJ201YF-ND◆	6.96	5.58	4.71	—	—
2A	TO-220FL (2-10S1B)	-100	0.15	-16	-64	60	2SJ412-ND	1.62	1.30	.97	—	—
		-100	0.15	-16	-64	60	2SJ412Q-ND◆	2.35	1.96	1.57	—	—
2B	TO-220SM	-100	0.15	-16	-64	60	2SJ412QCT-ND‡◆	2.89	2.41	1.93	1,000	1280.79
3	2-7B2B	-60	0.16	-5	-20	20	2SJ377NQCT-ND◆	1.29	1.08	.87	2,000	573.23/M
4	VS-6 (2-3T1A)	-20	0.048	-4.5	-18	0.7	TPC6101CT-ND‡	.52	.39	.30	—	—
		-20	0.048	-4.5	-18	0.7	TPC6101FCT-ND‡◆	.52	.39	.30	—	—
		-30	0.050	-4.5	-18	0.7	TPC6108TE85LFMCT-ND‡◆	.78	.59	.44	3,000	252.20/M
5A	8-SOIC (2-6J1B)	-30	0.014	-10	-40	1.0	TPC8109QCT-ND‡◆	1.26	1.05	.84	3,000	546.00/M
		-30	0.0031	-18	-72	1.0	TPC8114TE12LQMCT-ND‡◆	1.84	1.47	1.11	3,000	940.80/M
7	VS-8	-12	0.022	-6	-24	2.5	TPCF8101CT-ND‡	.76	.57	.43	4,000	247.00/M
		-12	0.022	-6	-24	2.5	TPCF8101FCT-ND‡◆	.87	.73	.58	4,000	377.00/M
		-20	0.024	-6	-24	2.5	TPCF8102CT-ND‡	.72	.54	.41	4,000	234.00/M
		-20	0.024	-6	-24	2.5	TPCF8102FCT-ND‡◆	.76	.64	.51	4,000	328.90/M
		-20	0.072	-2.7	-10.8	2.5	TPCF8103CT-ND‡	.64	.48	.36	4,000	208.00/M
		-20	0.072	-2.7	-10.8	2.5	TPCF8103FCT-ND‡◆	.90	.68	.51	4,000	293.80/M
		-30	0.026	-6	-24	2.5	TPCF8104FCT-ND‡◆	.85	.71	.57	4,000	366.60/M
8	VS-8	-20	0.072	-2.7	-10.8	1.35	TPCF8B01CT-ND‡	.64	.48	.36	4,000	208.00/M
		-20	0.072	-2.7	-10.8	1.35	TPCF8B01FCT-ND‡◆	.76	.64	.51	4,000	328.90/M
							N-Channel					
1	TO-3PL	200	0.625★	12	—	150	2SK1530YF-ND◆	7.84	6.28	5.30	—	—
2B	TO-220SM	200	0.13	15	45	75	2SK2401TE24LQCT-ND‡◆	2.69	2.15	1.62	1,000	1397.50
3	2-7J1B	60	0.12	5	20	20	2SK2231TE16RQCT-ND‡◆	.86	.72	.58	2,000	381.71/M
		60	0.12	5	20	20	2SK2231TE16LCT-ND◆	.88	.66	.50	2,000	292.60/M
4	VS-6	30	.025	6	24	0.7	TPC6002FCT-ND‡◆	.52	.39	.30	—	—
5A	SOP-8	30	0.008	13	52	1.0	TPC8009-HCT-ND‡	.81	.68	.54	—	—
		30	0.008	13	52	1.0	TPC8009-HQCT-ND‡◆	1.05	.88	.70	3,000	455.00/M
		30	0.0035	18	72	1.9	TPC8018-HCT-ND‡	1.47	1.23	.98	3,000	637.00/M
		30	0.0035	18	72	1.9	TPC8018-HQCT-ND‡◆	1.76	1.41	1.06	3,000	902.40/M
		30	0.0051	15	60	1.9	TPC8017-HQCT-ND‡◆	1.40	1.12	.84	3,000	714.24/M
5B	SOP-8	20	0.016	6	24	0.45	TPC8207CT-ND‡	.84	.70	.56	—	—
6	TO-220SIS	500	0.4	12	48	40	2SK3568Q-ND◆	2.48	1.99	1.49	—	—
		500	0.75	8	32	40	2SK3561Q-ND◆	1.53	1.22	.92	—	—
		500	1.35	5	20	35	2SK3563Q-ND◆	1.33	1.11	.89	—	—
		600	5	2	8	25	2SK3767Q-ND◆	.92	.77	.62	—	—
		600	0.54	10	40	45	2SK3569Q-ND◆†	2.24	1.80	1.35	—	—
		600	0.74	7.5	30	45	2SK3667Q-ND◆†	1.81	1.45	1.09	—	—
		600	0.9	6	24	40	2SK3562Q-ND◆†	1.50	1.20	.90	—	—
		600	1.7	3.5	14	35	2SK3567Q-ND◆†	1.44	1.15	.87	—	—
		900	2.0	5	15	45	2SK3565Q-ND◆	2.07	1.66	1.25	—	—
		900	2.5	5	15	45	2SK3742Q-ND◆†	2.28	1.83	1.37	—	—
		900	3.7	3	9	40	2SK3564Q-ND◆†	1.46	1.17	.88	—	—
		900	5.6	2.5	7.5	40	2SK3566-ND	1.45	1.21	.97	—	—
		900	5.6	2.5	7.5	40	2SK3566Q-ND◆	1.45	1.21	.97	—	—
8	VS-8	20	0.038	3	12	1.35	TPCF8A01FCT-ND‡◆	1.14	.86	.65	4,000	370.50/M
9	TO-220AB	100	0.066	27	108	75	2SK2314-ND	1.49	1.20	.90	—	—
		100	0.066	27	108	75	2SK2314F-ND◆	1.77	1.42	1.07	—	—
		400	0.40	10	40	80	2SK2841F-ND◆	2.69	2.16	1.62	—	—
		500	0.75	8	32	80	2SK2542F-ND◆	2.00	1.60	1.20	—	—
		600	0.9	6	24	74	2SK3761M-ND	1.38	1.10	.83	—	—
10	2-7B1B	50	0.032	20	50	40	2SK2614-ND	1.02	.82	.61	—	—
		50	0.032	20	50	40	2SK2614Q-ND◆	1.54	1.29	1.03	—	—
		60	0.12	5	20	20	2SK2231QT-ND◆	.97	.81	.65	—	—
11	2-10R1B	60	0.013	45	180	45	2SK2312-ND	2.40	1.92	1.44	—	—
		60	0.013	45	180	45	2SK2312F-ND◆	3.07	2.46	1.85	—	—
		60	0.036	25	100	35	2SK2232T-ND	1.26	1.05	.84	—	—
		60	0.036	25	100	35	2SK2232FT-ND◆	1.48	1.24	.99	—	—
12	2-16C1B	500	0.35	15	60	150	2SK2698FT-ND◆	3.43	2.75	2.14	—	—
		900	1.05	10	30	150	2SK2968FT-ND◆	3.67	2.94	2.29	—	—
13	2-16F1B	600	0.31	15	60	90	2SK2953-ND	5.75	4.61	3.89	—	—
		600	0.31	15	60	90	2SK2953F-ND◆	6.47	5.18	4.03	—	—
14	VS-8	30	0.019	7	28	2.5	TPCF8001CT-ND‡	.64	.48	.36	4,000	208.00/M
		30	0.019	7	28	2.5	TPCF8001FCT-ND‡◆	1.00	.75	.57	4,000	323.70/M
14	SOPA-8	40	0.0105	30	90	45	TPCA8014HTE12LQCT-ND‡◆	1.62	1.30	.97	3,000	826.88/M
		40	0.0061	35	105	45	TPCA8015HTE12LQCT-ND‡◆	2.26	1.81	1.36	3,000	1155.84/M
		60	0.02	25	75	45	TPCA8016HTE12LQCT-ND‡◆	1.62	1.30	.97	3,000	826.88/M
		100	0.041	18	36	45	TPCA8006HTE12LQCT-ND‡◆	1.91	1.53	1.15	3,000	977.92/M
		150	0.23	7	14	45	TPCA8009HTE12LQCT-ND‡◆	3.44	2.76	2.07	3,000	1762.56/M
		200	0.38	5.5	11	15	TPCA8010HTE12LQCT-ND‡◆	1.65	1.33	1.00	3,000	1762.56/M
		250	0.47	4	8	45	TPCA8008HTE12LQCT-ND‡◆	3.44	2.76	2.07	3,000	1762.56/M
15	SOPA-8	30	0.0035	40	120	45	TPCA8004-HCT-ND‡◆	2.02	1.62	1.22	3,000	1034.24/M
		30	0.0051	35	105	45	TPCA8003-HCT-ND‡◆	1.62	1.30	.97	3,000	826.88/M
16	8-TSSOPA	30	0.007	20	60	30	TPCM8001HTE12LQCT-ND‡◆	1.54	1.29	1.03	3,000	668.20/M
17	PW-MINI	100	0.5	1	3	0.5	2SK2963FCT-ND‡◆	.86	.65	.49	1,000	287.28
		16	0.29	2	6	0.5	2SK2549TE12LFCT-ND‡◆	.78	.65	.52	1,000	345.80
18	S-MINI	60	3.3	0.2	0.8	0.2	SSM3K7002FCT-ND‡◆	.30	.23	.16	3,000	60.00/M
							Dual N-Channel					
5B	SOP-8	30/30	0.013	6/8.5	24/34	1.5	TPC8A01QCT-ND‡◆	1.27	1.02	.77	3,000	651.52/M
7	VS-8	20	0.038	3	12	1.35	TPCF8201FCT-ND‡◆	1.00	.75	.57	4,000	323.70/M
19	TSSOP-8	20	0.030	5	20	1.0	TPCS8205CT-ND‡	.84	.70	.56	3,000	364.00/M
20	PS-8	30	0.029	5.5	22	1.48	TPCP8202TE85LFMCT-ND‡◆	.97	.81	.65	3,000	418.60/M
							Dual P-Channel					
7	VS-8	-20	0.044	-3	-12	1.35	TPCF8302CT-ND‡	.76	.57	.43	4,000	247.00/M
		-20	0.044	-3	-12	1.35	TPCF8302FCT-ND‡◆	1.00	.75	.57	4,000	323.70/M
		-20	0.058	-3	-12	1.35	TPCF8303CT-ND‡	.76	.57	.43	4,000	247.00/M
		-20	0.058	-3	-12	1.35	TPCF8303FCT-ND‡◆	.80	.67	.53	4,000	344.50/M
		-20	0.072	-2.7	-10.8	1.35	TPCF8301CT-ND‡	.76	.57	.43	4,000	247.00/M
		-20	0.072	-2.7	-10.8	1.35	TPCF8301FCT-ND‡◆	1.00	.75	.57	4,000	323.70/M
20	PS-8	-20	0.055	-5	20	1.48	TPCP8301TE85LFMCT-ND‡◆	.97	.81	.65	3,000	418.60/M
							Dual N and P-Channel					
5B	SOP-8	30/-30	0.025/0.045	6/-4.5	24/-18	1.5	TPC8403CT-ND‡◆	.88	.66	.50	3,000	286.00/M
7	VS-8	30/-30	0.038/0.060	4/-3.2	16/-12.8	1.35	TPCF8402CT-ND‡	.92	.69	.52	4,000	299.00/M
		30/-30	0.038/0.060	4/-3.2	16/-12.8	1.35	TPCF8402FCT-ND‡◆	.76	.64	.51	4,000	328.90/M
20	PS-8	30/-30	0.038/0.058	4.2/-3.4	16.8/-13.6	1.48	TPCP8402TE85LFMCT-ND‡◆	.90	.68	.51	3,000	293.80/M

Fig. 1

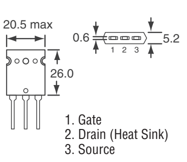

Fig. 2

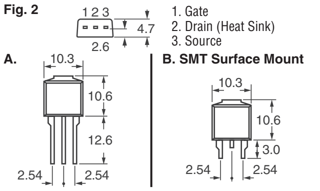

Fig. 3

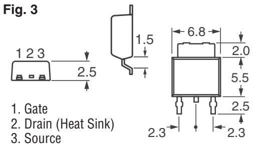

Fig. 4

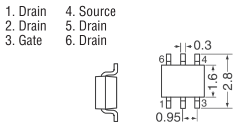

Fig. 5

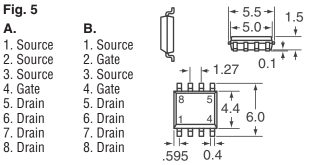

Fig. 6

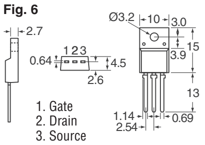

Fig. 7

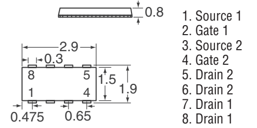

Fig. 8

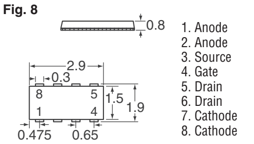

Fig. 9

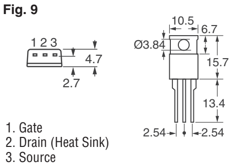

Fig. 10

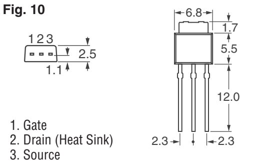

Fig. 11

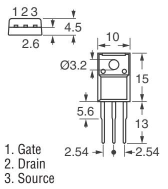

Fig. 12

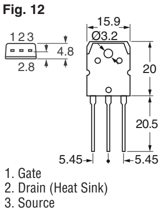

Fig. 13

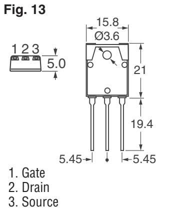

Fig. 14

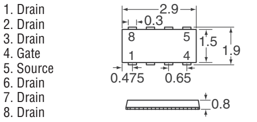

Fig. 15

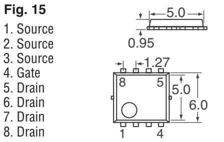

Fig. 16

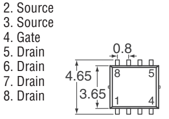

Fig. 17

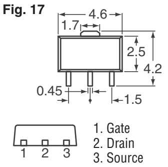

Fig. 18

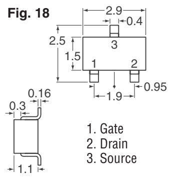

Fig. 19

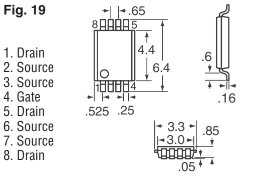

Fig. 20

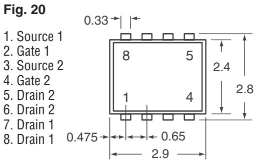

* For Tape and Reel part number, change CT-ND to TR-ND   † Isolated Tab
‡ Cut Tape Pricing   ◆ *RoHS Compliant*   ★ Maximum

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TOSHIBA Schottky Barrier Rectifiers and Switching Rectifier

Peak Reverse Voltage VRRM (V)	Average Forward Current IF (A)	Peak Surge Forward Current IFSM (A)	Peak Forward Voltage VFM (V)	Repetitive Peak Rev. Current (mA)	Junction Capacitance Cj (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
M-Flat (3-4E1A) Package											
30	3.0	40	.37	5.0	190	CMS01QCT-ND◆	.93	.70	.53	CMS01QTR-ND◆	301.60/M
30	3.0	40	.40	0.5	170	CMS02QCT-ND◆	.90	.68	.51	CMS02QTR-ND◆	293.80/M
30	3.0	40	.45	0.5	190	CMS03QCT-ND◆	.82	.62	.47	CMS03QTR-ND◆	267.80/M
30	5.0	70	.37	8.0	330	CMS04QCT-ND◆	.97	.73	.55	CMS04QTR-ND◆	315.90/M
30	5.0	70	.45	0.8	330	CMS05QCT-ND◆	.97	.73	.55	CMS05QTR-ND◆	315.90/M
30	2.0	40	.37	3.0	130	CMS06CT-ND	.58	.44	.33	CMS06TR-ND	148.50/M
30	2.0	40	.37	3.0	130	CMS06QCT-ND◆	.58	.44	.33	CMS06QTR-ND◆	188.50/M
30	1.0	25	.37	1.5	70	CMS08CT-ND	.54	.44	.33	CMS08TR-ND	121.50/M
30	1.0	25	.37	1.5	70	CMS08QCT-ND◆	.61	.49	.37	—	—
30	1.0	25	.45	0.5	70	CMS09CT-ND	.48	.36	.27	CMS09TR-ND	156.00/M
40	1.0	25	.55	0.5	50	CMS10CT-ND	.49	.37	.28	—	—
40	1.0	25	.55	0.5	50	CMS10QCT-ND◆	.55	.42	.32	—	—
40	2.0	30	.55	0.5	95	CMS11QCT-ND◆	.64	.48	.36	CMS11QTR-ND◆	208.00/M
S-Flat (3-2A1A) Package											
200	1.0	15	.98	0.01	—	CRH01QCT-ND◆§†	.55	.44	.33	CRH01QTR-ND◆§†	148.50/M
30	1.0	20	.37	1.5	40	CRS01QCT-ND◆	.46	.37	.28	CRS01QTR-ND◆	124.20/M
30	1.0	20	.40	0.05	40	CRS02QCT-ND◆	.52	.42	.32	CRS02QTR-ND◆	140.40/M
30	1.0	20	.45	0.1	40	CRS03CT-ND	.51	.41	.29	CRS03TR-ND	119.00/M
30	1.0	20	.45	0.1	40	CRS03QCT-ND◆	.51	.41	.29	CRS03QTR-ND◆	132.60/M
40	1.0	20	.49	0.1	47	CRS04QCT-ND◆	.60	.49	.34	CRS04QTR-ND◆	158.10/M
30	1.0	30	.45	0.2	60	CRS05QCT-ND◆	.48	.38	.29	CRS05QTR-ND◆	128.25/M
20	1.0	20	.36	1.0	60	CRS06QCT-ND◆	.48	.38	.29	CRS06QTR-ND◆	128.25/M
30	1.5	30	.36	1.0	90	CRS08QCT-ND◆	.53	.42	.32	CRS08QTR-ND◆	141.75/M
30	1.5	30	.46	0.05	90	CRS09QCT-ND◆	.51	.41	.31	CRS09QTR-ND◆	137.70/M
30	1.0	20	.36	1.5	60	CRS11QCT-ND◆	.55	.44	.33	CRS11QTR-ND◆	148.50/M

◆ ***RoHS Compliant*** § Reverse Recovery Time — Trr 35ns † Switching type

Dimensions in mm

M-Flat Pkg. (3-4E1A)

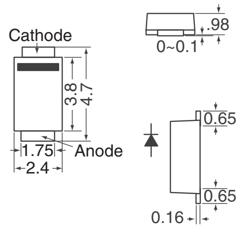

S-Flat Pkg. (3-2A1A)

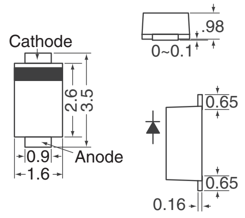

Bipolar Transistors

TO-220 (NIS) Pkg. (2-10R1A)

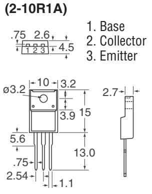

TO-3P(N) Pkg. (2-16C1A)

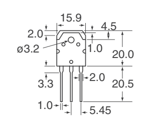

TO-3P(L) Pkg. (2-21F1A)

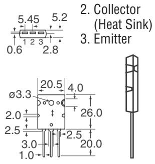

S-MINI Pkg.

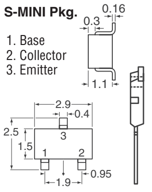

Dimensions in mm

Type	Collector- Emitter Voltage VCEO (V)	Collector Power IC (A)	Collector Power Dissipation PC (W)	Digi-Key Part No.	Price Each 1	10	100
TO-220(NIS) Package							
PNP	-230	-1	20	2SA1837FM-ND	.72	.54	.41
NPN	230	1	20	2SC4793FM-ND	.72	.54	.41
TO-3P(N) Package							
PNP	-230	-15	130	2SA1962-OQ-ND	2.48	1.98	1.54
NPN	230	15	130	2SC5242-OQ-ND	2.48	1.98	1.54
TO-3P(L) Package							
PNP	-230	-15	150	2SA1943-OQ-ND	2.48	1.98	1.54
NPN	230	15	150	2SC5200-OQ-ND	2.48	1.98	1.54
S-MINI Package							
NPN	50	150ma	150	2SC2712-GRCT-ND	.24	.18	.13
NPN	50	150ma	150	2SC2712-GRTR-ND		141.00/3,000	
NPN	50	150ma	150	2SC2712-YCT-ND	.24	.18	.13
NPN	50	150ma	150	2SC2712-YTR-ND		141.00/3,000	
PNP	-50	-150ma	150	2SA1162-GRCT-ND	.30	.23	.16
PNP	-50	-150ma	150	2SA1162-GRTR-ND		180.00/3,000	
PNP	-50	-150ma	150	2SA1162-YCT-ND	.24	.18	.13
PNP	-50	-150ma	150	2SA1162-YTR-ND		141.00/3,000	

Zener Diodes

Maximum Ratings (Ta=25°C): Power dissipation 700 mW

S-Flat Package (3-2A1A)

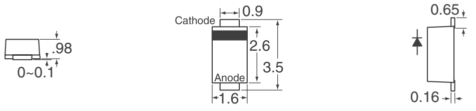

Zener Voltage Typical VZ (V)	Maximum Impedance rd (Ω)	Test Current IZ (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
S-Flat Package								
15.0	30	10	CRZ15QCT-ND◆	.75	.60	.45	CRZ15QTR-ND◆	201.15/M
16.0	30	10	CRZ16CT-ND	.53	.40	.30	CRZ16TR-ND	135.00/M
16.0	30	10	CRZ16QCT-ND◆	.66	.53	.40	CRZ16QTR-ND◆	178.20/M
20.0	30	10	CRZ20CT-ND	.53	.40	.30	CRZ20TR-ND	171.60/M
22.0	30	10	CRZ22CT-ND	.50	.40	.30	—	—
36.0	30	9	CRZ36CT-ND	.60	.45	.34	CRZ36TR-ND	303.03/M
39.0	35	8	CRZ39CT-ND	.60	.45	.34	CRZ39TR-ND	130.00/M
47.0	65	6	CRZ47CT-ND	.40	.30	.23	CRZ47TR-ND	130.00/M

◆ ***RoHS Compliant***

Varactors — Silicon Epitaxial

Fig.	Reverse Voltage Min. (V)	Reverse Current Max.	Capacitance Ratio Typ. (pF)	Series Resistance Typ. (Ω)	Pkg.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel◊ Qty.	Pricing
1	15	10nA	2.1(C3V/C8V)§	0.3	SOT23	1SV228FCT-ND	.60	4.50	33.75	3,000	195.00/M
	30	10nA	14.5(C1V/C28V)	0.65		1SV242FCT-ND	.52	3.90	29.25	3,000	169.00/M
2	50	0.1uA	0.2(CT)	3.5	SC-70	1SV252FCT-ND	.48	3.60	27.00	3,000	156.00/M
3	15	3nA	2.5(C2V/C10V)	0.2	1-2U1A	1SV306FCT-ND	.52	3.90	29.25	3,000	169.00/M
4	10	3nA	3(C1V/C4V)	0.27	1-1E1A	1SV304FCT-ND	.43	3.40	25.50	3,000	114.75/M
	10	3nA	2.1(C1V/C4V)	0.28		1SV310FCT-ND	.43	3.40	25.50	3,000	114.75/M
	10	3nA	4.3(C1V/C4V)	0.4		1SV322FCT-ND	.58	4.60	34.50	3,000	155.25/M
	15	3nA	2.5(C2V/C10V)	0.2		1SV229FCT-ND	.40	3.20	24.00	3,000	108.00/M
	15	3nA	2.4(C2V/C10V)	0.44		1SV239FCT-ND	.45	3.60	27.00	3,000	121.50/M
	30	10nA	5.7(C2V/C25V)	1.2	1-1E1A	1SV245FCT-ND	.45	3.60	27.00	3,000	121.50/M
	30	10nA	7.3(C2V/C25V)§	1.9		1SV287FCT-ND	.40	3.20	24.00	3,000	108.00/M
	50	0.1uA	0.4(CT)	4.5		1SV271FCT-ND	.40	3.20	24.00	3,000	108.00/M
5	10	3nA	2.0(C1V/C4V)	0.28	1-1G1A	1SV281FCT-ND	.40	3.20	24.00	4,000	108.00/M
	10	3nA	2.0(C1V/C4V)	0.22		1SV284FCT-ND	.40	3.20	24.00	4,000	108.00/M
	10	3nA	2.1(C1V/C4V)	0.28		1SV311FCT-ND	.43	3.40	25.50	4,000	114.75/M
	10	3nA	2.3(C1V/C4V)	0.42		1SV285FCT-ND	.40	3.20	24.00	4,000	108.00/M
	10	3nA	3(C1V/C4V)	0.27		1SV305FCT-ND	.43	3.40	25.50	4,000	114.75/M
	10	3nA	4.3(C1V/C4V)	0.4	1-1G1A	1SV323FCT-ND	.58	4.60	34.50	4,000	155.25/M
	15	3nA	2.4(C2V/C10V)	0.44		1SV280FCT-ND	.40	3.20	24.00	4,000	108.00/M
	15	3nA	2.5(C2V/C10V)	0.2		1SV279FCT-ND	.50	4.00	30.00	4,000	135.00/M
	30	10nA	8.9(C2V/C20V)	0.73		1SV286FCT-ND	.40	3.20	24.00	4,000	108.00/M
	30	0.1uA	0.3(CT)	1.1		1SV308FCT-ND	.43	3.40	25.50	4,000	114.75/M
	34	10nA	1.03(C25V/C28V)§	0.55		1SV283FCT-ND	.40	3.20	24.00	4,000	108.00/M

§ Capacitance Ratio Minimum ◊ For Tape and Reel Part Number, change CT-ND to TR-ND

Dimensions in mm

Fig. 1

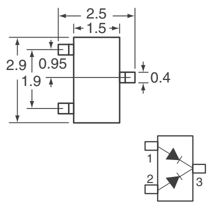

Fig. 2

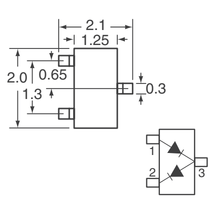

Fig. 3

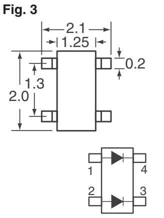

Fig. 4

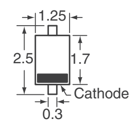

Fig. 5

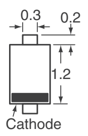

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General Purpose and Schottky Diodes

Fig. 1

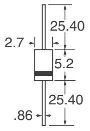

Fig. 2

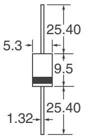

Fig. 3

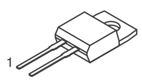

Fig. 4

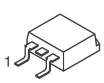

Fig. 5

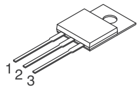

Fig. 6

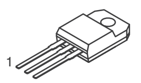

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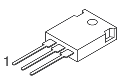

A.

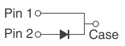

B.

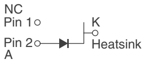

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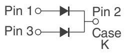

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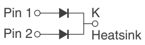

E.

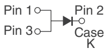

F.

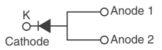

Fig.	Pinning	Package	Maximum Average Rect. Current (A)	Maximum Peak Reverse Voltage (V)	Peak Forward Surge Current (A)	Maximum Instant Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
								1	10	100		Qty.	Pricing
Silicon Diodes													
1	—	DO-41 (DO-204AL)	1.0	50	30	1.1	1N4001-E3/54GICT-ND◆	—	.69	5.52	1N4001-E3/54GITR-ND◆	5,500	28.00/M
				100	30	1.1	1N4002/54GICT-ND	—	.69	5.52	—	—	—
				100	30	1.1	1N4002-E3/54GICT-ND◆	—	.69	5.52	1N4002-E3/54GITR-ND◆	5,500	28.00/M
				200	30	1.1	1N4003-E3/73GICT-ND◆	.10	.76	5.52	1N4003-E3/73GITB-ND†◆	3,000	35.00/M
				200	30	1.1	1N4003-E3/54GICT-ND◆	—	.69	5.52	1N4003-E3/54GITR-ND◆	5,500	28.00/M
				400	30	1.1	1N4004-E3/73GI-ND†◆	.05	.41	3.45	—	—	—
				400	30	1.1	1N4004-E3/54GICT-ND◆	—	.69	5.52	1N4004-E3/54GITR-ND◆	5,500	28.00/M
				600	30	1.1	1N4005-E3/54GICT-ND◆	—	.69	5.52	1N4005-E3/54GITR-ND◆	5,500	28.00/M
				800	30	1.1	1N4006/54GICT-ND	—	.69	5.52	—	—	—
				800	30	1.1	1N4006-E3/54GICT-ND◆	—	.69	5.52	1N4006-E3/54GITR-ND◆	5,500	28.00/M
				1000	30	1.1	1N4007-E3/54GICT-ND◆	—	.69	5.52	1N4007-E3/54GITR-ND◆	5,500	28.00/M
2	—	DO-201AD	3.0	50	200	1.2	1N5400-E3/51GI-ND§◆	.20	1.72	14.30	—	—	—
				100	200	1.2	1N5401-E3/54GICT-ND◆	.65	4.75	34.52	1N5401-E3/54GITR-ND◆	1,400	216.00/M
				200	200	1.2	1N5402-E3/54GICT-ND◆	.65	4.75	34.52	1N5402-E3/54GITR-ND◆	1,400	216.00/M
				200	200	1.2	1N5402-E3/51GI-ND§◆	.20	1.72	14.30	—	—	—
				400	200	1.2	1N5404-E3/51GI-ND§◆	.20	1.72	14.30	—	—	—
				600	200	1.2	1N5406-E3/54GICT-ND	.65	4.75	34.52	1N5406-E3/54GITR-ND	1,400	216.00/M
				600	200	1.2	1N5406-E3/51GI-ND§◆	.20	1.72	14.30	—	—	—
				800	200	1.2	1N5407-E3/54GICT-ND	.43	3.15	22.88	—	—	—
				800	200	1.2	1N5407-E3/51GI-ND§◆	.20	1.72	14.30	—	—	—
				1000	200	1.2	1N5408-E3/54GICT-ND	.43	3.15	22.88	—	—	—
				1000	200	1.2	1N5408-E3/51GI-ND§◆	.20	1.72	14.30	—	—	—
Ultrafast Diodes – RoHS Compliant													
2	—	DO-201AD	3.0	400	150	1.0	UF5404-E3/54GI-ND§	.48	4.08	34.03	—	—	—
3	A	TO-220AC	8.0	600	80	3.0	UH8JT-E3/45WGI-ND§	1.73	14.87	123.93	—	—	—
			10	300	180	1.2	UH10FT-E3/4WGI-ND§	1.22	10.45	87.08	—	—	—
4	B	D2PAK(TO-263AB)	10	300	180	1.2	UHB10FT-E3/4WGI-ND§	1.32	11.30	94.13	—	—	—
	D	D2PAK(TO-263AB)	2 x 10A	300	180	1.2	UHB20FCT-E3/4WGI-ND§	1.87	16.02	133.53	—	—	—
5	C	TO-220AB	2 x 10A	300	180	1.2	UH20FCT-E3/4WGI-ND§	1.78	15.22	126.85	—	—	—
Schottky Diodes													
1	—	DO-41 (DO-204AL)	1.0	20	25	0.45	1N5817-E3/54GICT-ND◆	.31	2.28	16.60	1N5817-E3/54GITR-ND◆	5,500	83.00/M
				30	25	0.55	1N5818-E3/54GICT-ND◆	.31	2.28	16.60	1N5818-E3/54GITR-ND◆	5,500	83.00/M
				30	25	0.55	1N5818-E3/1GI-ND§◆	.15	1.25	10.38	—	—	—
				40	25	0.60	1N5819-E3/51GI-ND§◆	.15	1.25	10.38	—	—	—
				40	25	0.60	1N5819-E3/54GICT-ND◆	.31	2.28	16.60	1N5819-E3/54GITR-ND◆	5,500	83.00/M
				60	50	0.65	SB160-E3/51GI-ND§◆	.18	1.53	12.78	—	—	—
2	—	DO-201AD	3.0	20	80	0.475	1N5820-E3/54GICT-ND◆	.74	5.40	39.28	1N5820-E3/54GITR-ND	1,400	187.00/M
				30	80	0.500	1N5821-E3/54GICT-ND◆	.74	5.40	39.28	1N5821-E3/54GITR-ND	1,400	187.00/M
				40	80	0.525	1N5822-E3/51GI-ND§◆	.34	2.95	24.55	—	—	—
				40	80	0.525	1N5822-E3/54GICT-ND◆	.74	5.40	39.28	1N5822-E3/54GITR-ND◆	1,400	246.00/M
				90	100	0.80	SB3H90-E3/54GICT-ND◆	.41	3.48	29.03	SB3H90-E3/54GITR-ND◆	1,400	174.00/M
				100	100	0.80	SB3H100-E3/54GICT-ND◆	.41	3.48	29.03	SB3H100-E3/54GITR-ND◆	1,400	174.00/M
			5.0	20	220	0.48	SB520-E3/51GI-ND§◆	.47	4.03	33.55	—	—	—
				30	220	0.48	SB530-E3/54GICT-ND	.47	4.03	33.55	SB530-E3/54GITR-ND	1,400	215.00/M
				30	220	0.48	SB530-E3/51GI-ND§◆	.47	4.03	33.55	—	—	—
				40	220	0.48	SB540-E3/54GICT-ND	.47	4.03	33.55	SB540-E3/54GITR-ND	1,400	215.00/M
				40	220	0.48	SB540-E3/51GI-ND§◆	.47	4.03	33.55	—	—	—
				50	220	0.65	SB550-E3/54GICT-ND◆	.54	5.15	50.31	SB550-E3/54GITR-ND◆	1,400	387.00/M
				60	220	0.65	SB560-E3/51GI-ND§◆	.54	4.64	38.70	—	—	—
				60	220	0.65	SB560-E3/54GICT-ND◆	1.16	8.51	61.92	SB560-E3/54GITR-ND◆	1,400	387.00/M
4	D	D2PAK(TO-263AB)	2 x 20A	100	250	0.73	VB40100C-E3/4WGI-ND§◆	3.24	27.78	231.50	—	—	—
5	C	TO-220AB	2 x 5A	150	160	0.96	MBR10H150CT-E3/45GI-ND§◆	1.62	13.92	115.98	—	—	—
			2 x 10A	150	200	0.99	MBR20H150CT-E3/45GI-ND§◆	1.72	14.78	123.15	—	—	—
			2 x 15A	150	260	0.99	MBR30H150CT-E3/45GI-ND§◆	3.04	26.09	217.43	—	—	—
			2 x 30A	100	350	1.0	MBR60100CT-E3/45GI-ND§◆	4.45	38.12	317.65	—	—	—
			2 x 20A	100	250	0.73	VTS40100CT-E3/45GI-ND§◆	2.89	24.78	206.50	—	—	—
			2 x 30A	100	320	0.79	V60100C-E3/45GI-ND§◆	3.14	26.88	224.00	—	—	—
	E	TO-220AB	30	100	250	0.85	V30100S-E3/45GI-ND§◆	1.73	14.81	123.38	—	—	—
6	E (Isolated)	TO-220AB	30	100	250	0.85	VF30100S-E3/45GI-ND§◆	1.96	16.76	139.68	—	—	—
7	C	TO-247AD	2 x 20A	100	300	0.73	V40100P-E3/45GI-ND§◆	3.60	30.86	257.18	—	—	—
			2 x 25A	100	350	0.78	V50100P-E3/45GI-ND§◆	3.60	30.86	257.18	—	—	—
Surface Mount Schottky Diodes – RoHS Compliant													
8	—	SMA	1.0	20	40	0.50	SS12-E3/1GI-ND§	.15	1.31	10.93	—	—	—
				20	40	0.50	SS12-E3/61TGICT-ND	.15	1.31	10.93	SS12-E3/61TGITR-ND	1,800	66.00/M
				40	40	0.50	SS14-E3/61TGICT-ND	.15	1.31	10.93	SS14-E3/61TGITR-ND	1,800	66.00/M
				60	40	0.75	SS16-E3/61TGICT-ND	.16	1.38	11.50	SS16-E3/61TGITR-ND	1,800	69.00/M
				60	40	0.75	SS16-E3/51TGI-ND§	.16	1.38	11.50	—	—	—
				60	40	0.75	SS16-E3/11GICT-ND	.16	1.38	11.50	SS16-E3/11GITR-ND	1,800	69.00/M
				100	50	0.77	SS1H10-E3/61TGICT-ND	.23	1.95	16.25	SS1H10-E3/61TGITR-ND	1,800	98.00/M
			1.5	30	50	0.445	SL13-E3/61TGICT-ND	.21	1.79	14.93	SL13-E3/61TGITR-ND	1,800	90.00/M
			2.0	30	60	0.45	SSA23L-E3/61TGICT-ND	.25	2.12	17.65	SSA23L-E3/61TGITR-ND	1,800	106.00/M
				40	60	0.49	SSA24-E3/61TGICT-ND	.24	2.05	17.08	SSA24-E3/61TGITR-ND	1,800	102.00/M
			3.0	30	75	0.45	SSA33L-E3/61TGICT-ND	.34	2.94	24.50	SSA33L-E3/61TGITR-ND	1,800	147.00/M
				40	75	0.49	SSA34-E3/61TGICT-ND	.31	2.64	22.00	SSA34-E3/61TGITR-ND	1,800	132.00/M
9	—	SMB	1.5	400	50	1.15	S2G-E3/1GI-ND§	.12	1.04	8.63	—	—	—
				20	100	0.44	SL22-E3/52TGICT-ND	.43	3.69	30.75	SL22-E3/52TGITR-ND	750	138.75
			2.0	30	100	0.44	SL23-E3/52TGICT-ND	.43	3.69	30.75	SL23-E3/52TGITR-ND	750	138.75
				20	75	0.5	SS22-E3/52TGICT-ND	.26	2.24	18.70	SS22-E3/52TGITR-ND	750	84.00
				40	75	0.5	SS24-E3/1GI-ND§	.26	2.24	18.70	—	—	—
				40	75	0.5	SS24-E3/52TGICT-ND	.26	2.24	18.70	SS24-E3/52TGITR-ND	750	84.00
				60	75	0.7	SS26-E3/51TGI-ND§	.27	2.28	18.98	—	—	—

◆ ***RoHS Compliant*** § Bulk Pricing † Tape and Box

(Continued)

General Purpose and Schottky Diodes *(Cont.)*

Fig. 8

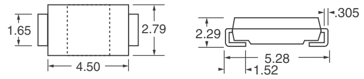

Fig. 9

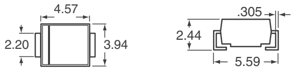

Fig. 10

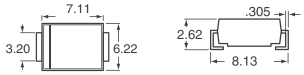

Fig.	Pinning	Package	Maximum Average Rect. Current (A)	Maximum Peak Reverse Voltage (V)	Peak Forward Surge Current (A)	Maximum Instant Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
9	—	SMB	2.0	60	75	0.7	SS26-E3/52TGICT-ND	.27	2.28	18.98	SS26-E3/52TGITR-ND	750	85.50
				100	75	0.79	SS2H10-E3/52TGICT-ND	.37	3.16	26.35	SS2H10-E3/52TGITR-ND	750	118.50
			4.0	30	100	0.45	SSB43L-E3/52TGICT-ND	.45	3.83	31.90	SSB43L-E3/52TGITR-ND	750	159.00
				40	100	0.49	SSB44-E3/52TGICT-ND	.37	3.21	26.73	SSB44-E3/52TGITR-ND	750	160.50
10	—	SMC	3.0	400	100	1.15	S3G-E3/51TGI-ND§	.24	2.07	17.25	—	—	—
				20	100	0.5	SS32-E3/57TGICT-ND	.38	3.27	27.23	SS32-E3/57TGITR-ND	850	138.55
				40	100	0.5	SS34-E3/57TGICT-ND	.38	3.27	27.23	SS34-E3/57TGITR-ND	850	138.55
				60	100	0.75	SS36-E3/57TGICT-ND	.40	3.45	28.75	SS36-E3/57TGITR-ND	850	147.05
				100	100	0.8	SS3H10-E3/57TGICT-ND	.58	5.01	41.73	SS3H10-E3/57TGITR-ND	850	212.50
			4.0	20	150	0.42	SL42-E3/57TGICT-ND	.70	6.04	50.33	SL42-E3/57TGITR-ND	850	256.70
				30	150	0.42	SL43-E3/57TGICT-ND	.70	6.04	50.33	SL43-E3/57TGITR-ND	850	256.70
				40	150	0.44	SL44-E3/57TGICT-ND	.70	6.04	50.33	SL44-E3/57TGITR-ND	850	256.70
			5.0	30	175	0.45	SSC53L-E3/57TGICT-ND	.55	4.71	39.28	SSC53L-E3/57TGITR-ND	850	200.60
				40	175	0.49	SSC54-E3/57TGICT-ND	.54	4.59	38.23	SSC54-E3/57TGITR-ND	850	194.65
11	—	DO-213AB (MELF)	1.0	20	30	0.50	SGL41-20-E3/1GI-ND§	.41	3.47	28.95	—	—	—
				20	30	0.50	SGL41-20-E3/96GICT-ND	.41	3.47	28.95	SGL41-20-E3/96GITR-ND	1,500	202.66/M
				40	30	0.50	SGL41-40-E3/1GI-ND§	.41	3.47	28.95	—	—	—
				60	30	0.70	SGL41-60-E3/96GICT-ND	.41	3.52	29.35	SGL41-60-E3/96GITR-ND	1,500	176.00/M
12	—	SMP	1.0	30	50	0.45	SS1P3L-E3/84AGICT-ND	.29	2.48	20.65	SS1P3L-E3/84AGITR-ND	3,000	124.00/M
				40	50	0.48	SS1P4L-E3/84AGICT-ND	.29	2.48	20.65	—	—	—
			2.0	20	50	0.55	SS2P2-E3/84AGICT-ND	.29	2.48	20.65	SS2P2-E3/84AGITR-ND	3,000	124.00/M
				20	50	0.50	SS2P2L-E3/84AGICT-ND	.29	2.48	20.65	SS2P2L-E3/84AGITR-ND	3,000	124.00/M
				30	50	0.55	SS2P3-E3/84AGICT-ND	.29	2.48	20.65	SS2P3-E3/84AGITR-ND	3,000	124.00/M
				30	50	0.50	SS2P3L-E3/84AGICT-ND	.29	2.48	20.65	SS2P3L-E3/84AGITR-ND	3,000	124.00/M
				40	50	0.55	SS2P4-E3/84AGICT-ND	.29	2.48	20.65	SS2P4-E3/84AGITR-ND	3,000	124.00/M
			3.0	30	50	0.58	SS3P3-E3/84AGICT-ND	.20	1.70	14.15	SS3P3-E3/84AGITR-ND	3,000	85.00/M
13	—	MicroSMP	1.0	20	25	0.50	MSS1P2L-E3/89AGICT-ND	.13	1.12	9.33	MSS1P2L-E3/89AGITR-ND	4,500	56.00/M
				30	25	0.55	MSS1P3-E3/89AGICT-ND	.13	1.09	9.05	MSS1P3-E3/89AGITR-ND	4,500	54.00/M
				30	25	0.50	MSS1P3L-E3/89AGICT-ND	.13	1.12	9.33	MSS1P3L-E3/89AGITR-ND	4,500	56.00/M
				40	25	0.55	MSS1P4-E3/89AGICT-ND	.13	1.09	9.05	MSS1P4-E3/89AGITR-ND	4,500	54.00/M
				50	25	0.68	MSS1P5-E3/89AGICT-ND	.13	1.09	9.05	MSS1P5-E3/89AGITR-ND	4,500	54.00/M
				60	25	0.68	MSS1P6-E3/89AGICT-ND	.13	1.09	9.05	MSS1P6-E3/89AGITR-ND	4,500	54.00/M
Surface Mount Silicon Diodes – RoHS Compliant													
8	—	SMA	1.0	400	40	1.1	S1G-E3/61TGICT-ND	.09	.76	6.33	S1G-E3/61TGITR-ND	1,800	38.00/M
				600	40	1.1	S1J-E3/61TGICT-ND	.09	.76	6.33	S1J-E3/61TGITR-ND	1,800	38.00/M
				1000	30	1.1	S1M-E3/61TGICT-ND	.09	.76	6.33	S1M-E3/61TGITR-ND	1,800	38.00/M
9	—	SMB	1.5	200	50	1.15	S2D-E3/52TGICT-ND	.12	1.04	8.63	S2D-E3/52TGITR-ND	750	39.00
				400	50	1.15	S2G-E3/52TGICT-ND	.12	1.04	8.63	S2G-E3/52TGITR-ND	750	39.00
				600	50	1.15	S2J-E3/52TGICT-ND	.12	1.04	8.63	S2J-E3/52TGITR-ND	750	39.00
				1000	50	1.15	S2M-E3/52TGICT-ND	.12	1.04	8.63	S2M-E3/52TGITR-ND	750	39.00
10	—	SMC	3.0	200	100	1.15	S3D-E3/57TGICT-ND	.24	2.07	17.25	S3D-E3/57TGITR-ND	850	88.40
				400	100	1.15	S3G-E3/57TGICT-ND	.24	2.07	17.25	S3G-E3/57TGITR-ND	850	88.40
				600	100	1.15	S3J-E3/57TGICT-ND	.24	2.07	17.25	S3J-E3/57TGITR-ND	850	88.40
				1000	100	1.15	S3M-E3/57TGICT-ND	.24	2.07	17.25	S3M-E3/57TGITR-ND	850	88.40
			5.0	400	100	1.15	S5G-E3/57TGICT-ND	.26	2.25	18.75	S5G-E3/57TGITR-ND	850	96.05
				600	100	1.15	S5J-E3/57TGICT-ND	.26	2.25	18.75	S5J-E3/57TGITR-ND	850	96.05
				1000	100	1.15	S5M-E3/57TGICT-ND	.26	2.25	18.75	S5M-E3/57TGITR-ND	850	96.05
12	—	SMP	1.0	100	30	1.1	S1PB-E3/84AGICT-ND	.11	.93	7.75	S1PB-E3/84AGITR-ND	3,000	47.00/M
				400	30	1.1	S1PG-E3/84AGICT-ND	.11	.93	7.75	—	—	—
				600	30	1.1	S1PJ-E3/84AGICT-ND	.11	.93	7.75	S1PJ-E3/84AGITR-ND	3,000	47.00/M
				1000	30	1.1	S1PM-E3/84AGICT-ND	.11	.93	7.75	S1PM-E3/84AGITR-ND	3,000	47.00/M
Surface Mount Ultrafast Diodes – RoHS Compliant													
8	—	SMA	1.0	200	30	0.92	ES1D-E3/61TGICT-ND	.16	1.35	11.23	ES1D-E3/61TGITR-ND	1,800	67.00/M
				200	30	1.0	US1D-E3/61TGICT-ND	.25	2.17	18.10	US1D-E3/61TGITR-ND	1,800	109.00/M
				400	30	1.0	US1G-E3/61TGICT-ND	.25	2.17	18.10	US1G-E3/61TGITR-ND	1,800	109.00/M
				1000	30	1.7	US1M-E3/61TGICT-ND	.25	2.17	18.10	US1M-E3/61TGITR-ND	1,800	109.00/M
9	—	SMB	1.0	200	40	0.875	MURS120-E3/52TGICT-ND	.35	3.00	25.03	MURS120-E3/52TGITR-ND	750	112.50
				600	35	1.25	MURS160-E3/52TGICT-ND	.25	2.14	17.83	MURS160-E3/52TGITR-ND	750	80.25
			2.0	100	50	0.9	ES2B-E3/52TGICT-ND	.26	2.24	18.70	ES2B-E3/52TGITR-ND	750	84.00
				200	50	0.9	ES2D-E3/52TGICT-ND	.26	2.24	18.70	ES2D-E3/52TGITR-ND	750	84.00
				400	50	1.1	ES2G-E3/52TGICT-ND	.26	2.24	18.70	ES2G-E3/52TGITR-ND	750	84.00
10	—	SMC	3.0	100	100	0.9	ES3B-E3/57TGICT-ND	.38	3.28	27.33	ES3B-E3/57TGITR-ND	850	139.40
				200	100	0.9	ES3D-E3/57TGICT-ND	.38	3.28	27.33	ES3D-E3/57TGITR-ND	850	139.40
				400	100	1.1	ES3G-E3/57TGICT-ND	.38	3.28	27.33	ES3G-E3/57TGITR-ND	850	139.40
				200	125	0.875	MURS320-E3/57TGICT-ND	.68	5.83	48.60	MURS320-E3/57TGITR-ND	850	248.20
				400	125	1.25	MURS340-E3/57TGICT-ND	.62	5.33	44.43	MURS340-E3/57TGITR-ND	850	226.95
				600	125	1.25	MURS360-E3/57TGICT-ND	.62	5.33	44.43	MURS360-E3/57TGITR-ND	850	226.95
12	—	SMP	1.0	100	50	0.9	ESH1PB-E3/84AGICT-ND	.36	3.06	25.48	—	—	—
				200	50	0.9	ESH1PD-E3/84AGICT-ND	.36	3.06	25.48	ESH1PD-E3/84AGITR-ND	3,000	153.00/M
				200	30	0.92	ES1PD-E3/84AGICT-ND	.34	2.90	24.15	ES1PD-E3/84AGITR-ND	3,000	145.00/M
Surface Mount Fast Switching Diodes — RoHS Compliant													
8	—	SMA	1.0	200	30	1.3	RS1D-E3/61TGICT-ND	.20	1.70	14.18	RS1D-E3/61TGITR-ND	1,800	85.00/M
				600	30	1.3	RS1J-E3/61TGICT-ND	.20	1.70	14.18	RS1J-E3/61TGITR-ND	1,800	85.00/M
9	—	SMB	1.5	200	50	1.3	RS2D-E3/52TGICT-ND	.32	2.77	23.05	—	—	—
				400	50	1.3	RS2G-E3/52TGICT-ND	.32	2.77	23.05	RS2G-E3/52TGITR-ND	750	103.50
				600	50	1.3	RS2J-E3/52TGICT-ND	.32	2.77	23.05	RS2J-E3/52TGITR-ND	750	103.50
10	—	SMC	3.0	100	100	1.3	RS3B-E3/57TGICT-ND	.51	4.36	36.30	RS3B-E3/57TGITR-ND	850	185.30
				200	100	1.3	RS3D-E3/57TGICT-ND	.51	4.36	36.30	RS3D-E3/57TGITR-ND	850	185.30
				400	100	1.3	RS3G-E3/57TGICT-ND	.51	4.36	36.30	RS3G-E3/57TGITR-ND	850	185.30
				600	100	1.3	RS3J-E3/57TGICT-ND	.51	4.36	36.30	RS3J-E3/57TGITR-ND	850	185.30
High Current Density Surface Mount Schottky Barrier Rectifiers – RoHS Compliant													
14	F	SMPC	10	40	280	0.51	SS10P4-E3/86AGICT-ND	.77	6.62	55.13	SS10P4-E3/86AGITR-ND	1,500	331.00/M
			3.0	40	150	0.47	SS3P4L-E3/86AGICT-ND	.48	4.14	34.53	SS3P4L-E3/86AGITR-ND	1,500	207.00/M
			3.0	60	150	0.60	SS3P6L-E3/86AGICT-ND	.48	4.14	34.53	SS3P6L-E3/86AGITR-ND	1,500	207.00/M
			5.0	100	150	0.88	SS5P10-E3/86AGICT-ND	.49	4.22	35.15	SS5P10-E3/86AGITR-ND	1,500	211.00/M
			5.0	30	150	0.52	SS5P3-E3/86AGICT-ND	.48	4.14	34.53	SS5P3-E3/86AGITR-ND	1,500	207.00/M
			5.0	60	150	0.69	SS5P6-E3/86AGICT-ND	.48	4.14	34.53	SS5P6-E3/86AGITR-ND	1,500	207.00/M
			8.0	20	150	0.57	SS8P2L-E3/86AGICT-ND	.52	4.43	36.90	SS8P2L-E3/86AGITR-ND	1,500	221.00/M
			8.0	30	150	0.57	SS8P3L-E3/86AGICT-ND	.52	4.43	36.90	SS8P3L-E3/86AGITR-ND	1,500	221.00/M
			8.0	100	150	0.90	SS8PH10-E3/86AGICT-ND	.52	4.43	36.90	SS8PH10-E3/86AGITR-ND	1,500	221.00/M

◆ ***RoHS Compliant*** § Bulk Pricing † Tape and Box

(Continued)

Digi Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

General Purpose and Schottky Diodes *(Cont.)*

Fig. 11

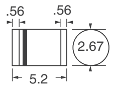

Fig. 12

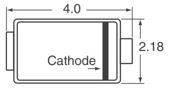

Fig. 13

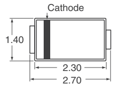

Fig. 14

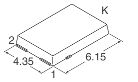

Fig. 15 ***NEW!***

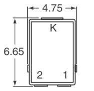

Fig. 16

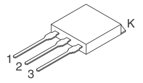

Fig.	Pinning	Package	Maximum Average Rect. Current (A)	Maximum Peak Reverse Voltage (V)	Peak Forward Surge Current (A)	Maximum Instant Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
High Current Density Surface Mount Trench MOS Barrier Schottky Rectifiers – RoHS Compliant													
14	F	SMPC	10	100	180	0.68	V10P10-E3/86AGICT-ND	.91	7.80	65.00	V10P10-E3/86AGITR-ND	1,500	390.00/M
			12	100	200	0.70	V12P10-E3/86AGICT-ND	1.01	8.65	72.08	V12P10-E3/86AGITR-ND	1,500	432.00/M
			8	100	150	0.68	V8P10-E3/86AGICT-ND	.75	6.43	53.58	V8P10-E3/86AGITR-ND	1,500	321.00/M
			8	100	150	0.68	V8P10-E3/87AGICT-ND ***NEW!***	.75	6.43	53.58	V8P10-E3/87AGITR-ND ***NEW!***	6,500	300.02/M
15	F	SMPC	10	100	180	0.68	V10P10-E3/87AGICT-ND ***NEW!***	.91	7.80	65.00	V10P10-E3/87AGITR-ND ***NEW!***	6,500	364.00/M
			12	100	200	0.70	V12P10-E3/87AGICT-ND ***NEW!***	1.01	8.65	72.08	V12P10-E3/87AGITR-ND ***NEW!***	6,500	403.62/M
High Voltage Trench MOS Barrier Schottky Rectifiers – RoHS Compliant													
4	B	TO-263AB	30	100	250	0.85	VB30100S-E3/8WGICT-ND	1.91	16.40	136.70	VB30100S-E3/8WGITR-ND	800	726.40
			20	100	250	0.85	VB20100S-E3/8WGICT-ND ***NEW!***	1.60	13.67	113.95	VB20100S-E3/8WGITR-ND ***NEW!***	800	605.30
5	E	TO-220AB	20	100	150	0.97	V20100SG-E3/4WGI-ND	1.18	10.15	84.55	—	—	—
			20	120	150	1.23	V20120SG-E3/4WGI-ND	1.33	11.40	94.98	—	—	—
			30	120	300	0.95	V30120S-E3/45GI-ND	2.08	17.79	148.23	—	—	—
6	E	TO-220AB	20	100	250	0.85	VF20100S-E3/45GI-ND	1.54	13.17	109.78	—	—	—
		ITO-220AB	20	120	200	1.12	VF20120S-E3/45GI-ND ***NEW!***	1.55	13.27	110.60	—	—	—
		ITO-220AB	20	100	150	0.97	VF20120SG-E3/45GI-ND ***NEW!***	1.38	11.82	98.48	—	—	—
		ITO-220AB	30	100	250	0.97	VF30100SG-E3/45GI-ND ***NEW!***	1.69	14.51	120.90	—	—	—
16	E	TO-262AA	20	100	150	0.97	VI20100SG-E3/4WGI-ND	1.28	10.94	91.13	—	—	—
			20	100	250	0.85	VI20100S-E3/4WGI-ND ***NEW!***	1.45	12.45	103.73	—	—	—
			20	120	200	1.12	VI20120S-E3/4WGI-ND ***NEW!***	1.41	12.07	100.58	—	—	—
			30	100	250	0.85	VI30100S-E3/4WGI-ND ***NEW!***	1.91	16.33	136.10	—	—	—
			30	100	250	0.97	VI30100SG-E3/4WGI-ND ***NEW!***	1.48	12.70	105.85	—	—	—
Dual High Voltage Trench MOS Barrier Schottky Rectifiers – RoHS Compliant													
5	C	TO-220AB	2 x 20A	120	250	0.88	V40120C-E3/45GI-ND ***NEW!***	3.20	27.41	228.40	—	—	—
			2 x 30A	120	300	0.95	V60120C-E3/45GI-ND ***NEW!***	3.14	26.88	224.00	—	—	—
6	C	ITO-220AB	2 x 20A	100	250	0.73	VF40100C-E3/45GI-ND ***NEW!***	3.22	27.63	230.28	—	—	—
7	C	TO-247AD	60	100	350	0.79	V60100P-E3/45GI-ND	4.48	38.39	319.88	—	—	—
			2 x 20A	100	250	0.81	V40100PG-E3/45GI-ND ***NEW!***	3.60	30.86	257.18	—	—	—
			80	100	500	0.78	V80100P-E3/45GI-ND ***NEW!***	5.16	44.23	368.60	—	—	—
16	C	TO-262AA	2 x 20A	100	250	0.73	VI40100C-E3/4WGI-ND ***NEW!***	3.26	27.97	233.05	—	—	—
			2 x 20A	100	200	0.81	VI40100G-E3/4WGI-ND ***NEW!***	2.47	21.19	176.55	—	—	—
			2 x 20A	120	250	0.88	VI40120C-E3/4WGI-ND ***NEW!***	3.10	26.53	221.08	—	—	—

◆ ***RoHS Compliant*** § Bulk Pricing † Tape and Box

Bridge Rectifiers

Fig. 1

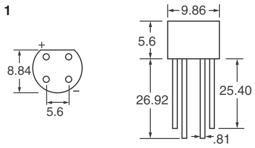

Fig. 2

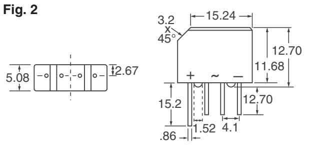

Fig. 3

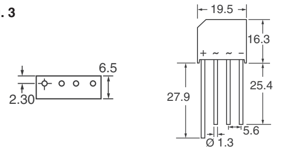

Fig. 4

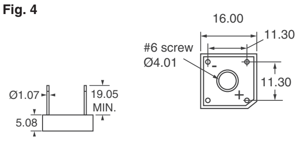

Fig. 5

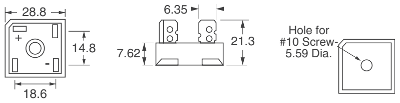

Fig. 6

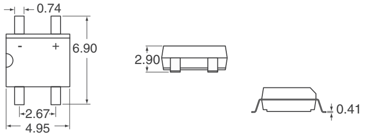

Fig. 7

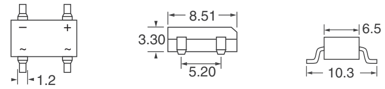

Fig.	Package	Maximum Average Rect. Current (A)	Maximum Peak Reverse Voltage (V)	Peak Forward Surge Current (A)	Maximum Instant Forward Voltage (V)	Digi-Key Part No.	Pricing 1	10	100
Silicon and Glass Passivated Bridge Rectifiers									
1	W0G	1.5	50	50	1.0	W005G-E4/51GI-ND◆	.61	5.19	43.23
			100	50	1.0	W01G-E4/51GI-ND	.61	5.19	43.23
			100	50	1.0	W01G-E4/1GI-ND◆	.61	5.19	43.23
			200	50	1.0	W02G-E4/51GI-ND◆	.61	5.19	43.23
			200	50	1.0	W02G-E4/1GI-ND◆	.61	5.19	43.23
			400	50	1.0	W04G-E4/51GI-ND◆	.61	5.19	43.23
			600	50	1.0	W06G-E4/51GI-ND◆	.61	5.19	43.23
			800	50	1.0	W08GE4/51GI-ND◆	.61	5.19	43.23
			1000	50	1.0	W10G-E4/51GI-ND◆	.61	5.19	43.23
2	KBPM	2.0	50	60	1.1	2KBP005M-E4/51GI-ND◆	.69	5.89	49.05
			100	60	1.1	2KBP01M-E4/51GI-ND◆	.69	5.89	49.05
			200	60	1.1	2KBP02M-E4/1GI-ND◆	.69	5.89	49.05
			400	60	1.1	2KBP04M-E4/51GI-ND◆	.69	5.89	49.05
			600	60	1.1	2KBP06M-E4/51GI-ND◆	.69	5.89	49.05
			800	60	1.1	2KBP08M/1GI-ND	.69	5.89	49.05
			1000	60	1.1	2KBP10M-E4/51GI-ND◆	.69	5.89	49.05
3	KBL	4.0	50	200	1.1	KBL005-E4/51GI-ND◆	1.32	11.28	94.00
			100	200	1.1	KBL01-E4/51GI-ND◆	1.32	11.28	94.00
			200	200	1.1	KB\L02-E4/51GI-ND◆	1.32	11.28	94.00
			400	200	1.1	KBL04-E4/51GI-ND◆	1.32	11.28	94.00
			600	200	1.1	KBL06-E4/51GI-ND◆	1.32	11.28	94.00
			800	200	1.1	KBL08-E4/51GI-ND◆	.68	5.85	48.75
			800	200	1.1	KBL08-E4/1GI-ND◆	1.32	11.28	94.00
			1000	200	1.1	KBL10-E4/51GI-ND◆	1.32	11.28	94.00
4	GBPC6	6.0	100	175	1.0	GBPC601-E4/51GI-ND	2.45	21.04	175.30
			200	175	1.0	GBPC602-E4/51GI-ND	2.45	21.04	175.30
			600	175	1.0	GBPC606-E4/51GI-ND◆	2.45	21.03	175.25
4	GBPC6	6.0	800	175	1.0	GBPC608-E4/51GI-ND◆	2.45	21.04	175.30
			1000	175	1.0	GBPC610-E4/51GI-ND◆	2.45	21.04	175.30
5	GBPC	12	100	200	1.1	GBPC1201-E4/51GI-ND◆	5.51	47.21	393.43
			400	200	1.1	GBPC1204-E4/51GI-ND◆	5.51	47.21	393.43
			600	200	1.1	GBPC1206-E4/51GI-ND	5.51	47.21	393.43
			1000	200	1.1	GBPC1210-E4/51GI-ND	5.51	47.21	393.43
			50	300	1.1	GBPC25005-E4/51GI-ND◆	5.51	47.21	393.43
		25	100	300	1.1	GBPC2501-E4/51GI-ND	5.51	47.21	393.43
			200	300	1.1	GBPC2502-E4/51GI-ND	5.51	47.21	393.43
			400	300	1.1	GBPC2504-E4/51GI-ND	5.51	47.21	393.43
			600	300	1.1	GBPC2506-E4/51GI-ND◆	5.51	47.21	393.43
			800	300	1.1	GBPC2508-E4/1GI-ND◆	5.51	47.21	393.43
		35	50	400	1.1	GBPC35005-E4/1GI-ND◆	6.37	54.59	454.90
			100	400	1.1	GBPC3501-E4/51GI-ND◆	6.37	54.59	454.90
			200	400	1.1	GBPC3502-E4/1GI-ND◆	6.37	54.59	454.90
			400	400	1.1	GBPC3504/1GI-ND	6.37	54.59	454.90
			400	400	1.1	GBPC3504-E4/51GI-ND◆	6.37	54.59	454.90
			600	400	1.1	GBPC3506-E4/51GI-ND◆	6.37	54.59	454.90
			800	400	1.1	GBPC3508-E4/51GI-ND◆	6.37	54.59	454.90
			1000	400	1.1	GBPC3510-E4/51GI-ND◆	6.37	54.59	454.90
6	TO-269AA	0.5	200	35	1.0	MB2S-E3/45GI-ND◆	.51	4.33	36.10
Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifiers — RoHS Compliant									
7	DFS	1.0	200	50	1.1	DF02S-E3/45GI-ND	.61	5.19	43.25
			400	50	1.1	DF04S-E3/45GI-ND	.61	5.19	43.25
			600	50	1.1	DF06S-E3/45GI-ND	.61	5.19	43.25

◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	Package	V_{DSS} (V)	I_D (A)	$R_{DS}(on)$ (Ω)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Vishay Part No.
						1	25	100	Qty.	Pricing	
					N-Channel						
1	1206-8	12	6.9	0.017	SI5406DC-T1-E3CT-ND	1.55	1.12	1.05	3,000	486.00/M	SI5406DC-T1-E3
		20	4.4	0.032	SI5856DC-T1-E3CT-ND	1.16	.84	.79	3,000	364.50/M	SI5856DC-T1-E3
		20	5.4	0.022	SI5404BDC-T1-E3CT-ND	1.29	.93	.87	3,000	405.00/M	SI5404BDC-T1-E3
		30	4.9	0.029	SI5402BDC-T1-E3CT-ND	1.29	.93	.87	3,000	405.00/M	SI5402BDC-T1-E3
		30	6	0.020	SI5424DC-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI5424DC-T1-E3
2A	1212-8	8	35	0.0029	SI7100DN-T1-E3CT-ND	2.31	1.60	1.52	3,000	715.00/M	SI7100DN-T1-E3
		20	12.5	0.0051	SI7106DN-T1-E3CT-ND	2.81	1.95	1.85	3,000	871.00/M	SI7106DN-T1-E3
		20	13.5	0.0044	SI7110DN-T1-E3CT-ND	3.44	2.38	2.26	3,000	1066.00/M	SI7110DN-T1-E3
		20	14	0.0041	SI7108DN-T1-E3CT-ND	2.73	1.89	1.79	3,000	845.00/M	SI7108DN-T1-E3
		30	6.5	0.015	SI7804DN-T1-E3CT-ND	2.69	1.86	1.76	3,000	832.00/M	SI7804DN-T1-E3
		30	9	0.009	SI7806ADN-T1-E3CT-ND	1.81	1.31	1.22	3,000	567.00/M	SI7806ADN-T1-E3
		30	11.3	0.006	SI7112DN-T1-E3CT-ND	2.81	1.95	1.85	3,000	871.00/M	SI7112DN-T1-E3
		30	11.7	0.0062	SI7114DN-T1-E3CT-ND	3.02	2.09	1.98	3,000	936.00/M	SI7114DN-T1-E3
		40	10.5	0.0065	SI7116DN-T1-E3CT-ND	3.02	2.09	1.98	3,000	936.00/M	SI7116DN-T1-E3
		60	5.6	0.021	SI7414DN-T1-E3CT-ND	2.73	1.89	1.79	3,000	845.00/M	SI7414DN-T1-E3
		60	6	0.046	SI7308DN-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI7308DN-T1-E3
		60	6.3	0.015	SI7120DN-T1-E3CT-ND	2.81	1.95	1.85	3,000	871.00/M	SI7120DN-T1-E3
		75	16	0.031	SI7812DN-T1-E3CT-ND	2.81	1.95	1.85	3,000	871.00/M	SI7812DN-T1-E3
		100	3.4	0.052	SI7810DN-T1-E3CT-ND	2.14	1.48	1.41	3,000	663.00/M	SI7810DN-T1-E3
		150	2.2	0.112	SI7818DN-T1-E3CT-ND	2.06	1.49	1.40	3,000	648.00/M	SI7818DN-T1-E3
		200	1.7	0.200	SI7820DN-T1-E3CT-ND	2.81	1.95	1.85	3,000	871.00/M	SI7820DN-T1-E3
		250	1.24	0.360	SI7802DN-T1-E3CT-ND	3.68	2.73	2.63	3,000	1344.00/M	SI7802DN-T1-E3
3	4-MFP	8	12.2	0.025	SI8404DB-T1-E1CT-ND	1.16	.84	.79	3,000	364.50/M	SI8404DB-T1-E1
		8	12.2	0.025	SI8424DB-T1-E1CT-ND	1.29	.93	.87	3,000	405.00/M	SI8424DB-T1-E1
		20	5.3	0.031	SI8402DB-T1-E1CT-ND	1.98	1.43	1.34	3,000	621.00/M	SI8402DB-T1-E1
4	6-MFP	20	3.9	0.038	SI8902EDB-T2-E1CT-ND	2.39	1.66	1.57	3,000	741.00/M	SI8902EDB-T2-E1
		30	3.8	0.037	SI8904EDB-T2-E1CT-ND	2.10	1.45	1.38	3,000	650.00/M	SI8904EDB-T2-E1
5	10-MFP	20	5.4	0.020	SI8900EDB-T2-E1CT-ND	4.29	3.03	2.86	3,000	1408.00/M	SI8900EDB-T2-E1
6A	10-PolarPAK	20	50	0.0029	SIE820DF-T1-E3CT-ND	4.45	3.14	2.97	3,000	1459.20/M	SIE820DF-T1-E3
		20	50	0.0028	SIE822DF-T1-E3CT-ND	3.99	2.76	2.62	3,000	1235.00/M	SIE822DF-T1-E3
		30	50	0.006	SIE800DF-T1-E3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SIE800DF-T1-E3
		30	50	0.0035	SIE830DF-T1-E3CT-ND	3.99	2.97	2.85	3,000	1459.20/M	SIE830DF-T1-E3
		40	50	0.0046	SIE832DF-T1-E3CT-ND	3.99	2.97	2.85	3,000	1459.20/M	SIE832DF-T1-E3
6B	10-PolarPAK	20	60	0.0011	SIE810DF-T1-E3CT-ND	4.84	3.41	3.23	3,000	1587.20/M	SIE810DF-T1-E3
		20	60	0.0013	SIE808DF-T1-E3CT-ND	5.58	3.94	3.72	3,000	1830.40/M	SIE808DF-T1-E3
		30	60	0.0014	SIE806DF-T1-E3CT-ND	5.58	3.94	3.72	3,000	1830.40/M	SIE806DF-T1-E3
		30	60	0.0016	SIE802DF-T1-E3CT-ND	5.19	3.66	3.46	3,000	1702.40/M	SIE802DF-T1-E3
		40	60	0.0022	SIE812DF-T1-E3CT-ND	4.84	3.41	3.23	3,000	1587.20/M	SIE812DF-T1-E3
		75	60	0.0078	SIE818DF-T1-E3CT-ND	5.58	3.94	3.72	3,000	1830.40/M	SIE818DF-T1-E3
7	6-PowerPAK	20	7.0	0.018	SIF902EDZ-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SIF902EDZ-T1-E3
8	D2PAK	40	110	0.0019	SUM110N04-2M3L-E3CT-ND	8.00	5.64	5.33	800	2296.00	SUM110N04-2M3L-E3
		40	110	0.0025	SUM110N04-03P-E3CT-ND	8.19	5.78	5.46	800	2352.00	SUM110N04-03P-E3
		40	110	0.0028	SUM110N04-04-E3CT-ND	7.41	5.23	4.94	800	2128.00	SUM110N04-04-E3
		40	110	0.0044	SUM110N04-05H-E3CT-ND	8.19	5.78	5.46	800	2352.00	SUM110N04-05H-E3
		60	50	0.013	SUM50N06-16L-E3CT-ND	3.28	2.27	2.15	800	889.20	SUM50N06-16L-E3
		60	90	0.0075	SUM75N06-09L-E3CT-ND	4.02	2.84	2.68	800	1153.60	SUM75N06-09L-E3
		60	110	0.0028	SUM110N06-3M4L-E3CT-ND	8.00	5.64	5.33	800	2296.00	SUM110N06-3M4L-E3
		60	110	0.00325	SUM110N06-3M9H-E3CT-ND	7.80	5.50	5.20	800	2240.00	SUM110N06-3M9H-E3
		75	90	0.004	SUM90N08-4M8P-E3CT-ND	8.07	5.70	5.39	800	2318.40	SUM90N08-4M8P-E3
		100	40	0.024	SUM40N10-30-E3CT-ND	3.61	2.50	2.37	800	980.40	SUM40N10-30-E3
		100	47	0.019	SUM47N10-24L-E3CT-ND	4.16	2.88	2.73	800	1128.60	SUM47N10-24L-E3
		100	60	0.013	SUM60N10-17-E3CT-ND	5.93	4.18	3.96	800	1702.40	SUM60N10-17-E3
		100	110	0.0078	SUM110N10-09-E3CT-ND	10.01	7.44	7.15	800	3146.00	SUM110N10-09-E3
		150	23	0.059	SUM23N15-73-E3CT-ND	5.69	4.02	3.80	800	1635.20	SUM23N15-73-E3
		150	40	0.030	SUM40N15-38-E3CT-ND	4.84	3.41	3.23	800	1388.80	SUM40N15-38-E3
		150	85	0.015	SUM85N15-19-E3CT-ND	9.71	6.85	6.48	800	2788.80	SUM85N15-19-E3
		200	9	0.216	SUM09N20-270-E3CT-ND	3.02	2.09	1.98	800	820.80	SUM09N20-270-E3
		200	27	0.064	SUM27N20-78-E3CT-ND	4.60	3.25	3.07	800	1321.60	SUM27N20-78-E3
		200	33	0.0485	SUM33N20-60P-E3CT-ND	4.84	3.41	3.23	800	1388.80	SUM33N20-60P-E3
		200	36	0.0435	SUM36N20-54P-E3CT-ND	5.58	3.94	3.72	800	1601.60	SUM36N20-54P-E3
		200	52	0.031	SUM52N20-39P-E3CT-ND	6.32	4.46	4.22	800	1814.40	SUM52N20-39P-E3
		200	65	0.023	SUM65N20-30-E3CT-ND	7.88	5.56	5.26	800	2262.40	SUM65N20-30-E3
		250	18	0.130	SUM18N25-165-E3CT-ND	4.41	3.11	2.94	800	1176.00	SUM18N25-165-E3
		250	45	0.047	SUM45N25-58-E3CT-ND	7.06	4.98	4.71	800	2027.20	SUM45N25-58-E3
9A	P-PAK	20	12	0.012	SI5486DU-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI5486DU-T1-E3
		20	12	0.013	SI5484DU-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI5484DU-T1-E3
		30	12	0.0125	SI5482DU-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI5482DU-T1-E3
		30	12	0.013	SI5480DU-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI5480DU-T1-E3
		60	12	0.028	SI5476DU-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI5476DU-T1-E3
9B	8-PowerPAK	20	6	0.032	SI5858DU-T1-E3CT-ND	1.29	.93	.87	3,000	405.00/M	SI5858DU-T1-E3
10A	SC70-6	20	—	0.8	SIA450DJ-T1-E3CT-ND	1.16	.84	.79	3,000	364.50/M	SIA450DJ-T1-E3
		20	4.5	0.043	SIA810DJ-T1-E3CT-ND	1.16	.84	.79	3,000	364.50/M	SIA810DJ-T1-E3
11	SC-75A	20	.140	5	SI1032R-T1-E3CT-ND	.53	.36	.32	3,000	142.50/M	SI1032R-T1-E3
		20	.500	0.41	SI1012R-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1012R-T1-E3
		60	.330	1.25	SI1022R-T1-E3CT-ND	.73	.49	.43	3,000	195.00/M	SI1022R-T1-E3
12A	SC75-6	20	9	0.028	SIB412DK-T1-E3CT-ND	1.16	.84	.79	3,000	364.50/M	SIB412DK-T1-E3
13	SC-89	20	.200	5	SI1032X-T1-E3CT-ND	.59	.39	.35	3,000	157.50/M	SI1032X-T1-E3
		20	.500	0.41	SI1012X-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1012X-T1-E3
14	SOT-23	20	0.42	0.47	TN0201K-T1-E3CT-ND	.78	.52	.47	3,000	210.00/M	TN0201K-T1-E3
		20	0.73	0.2	TN0200K-T1-E3CT-ND	.56	.37	.33	3,000	150.00/M	TN0200K-T1-E3
		20	2.1	0.045	SI2302ADS-T1-E3CT-ND	.81	.54	.48	3,000	217.50/M	SI2302ADS-T1-E3
		20	3.77	0.027	SI2314EDS-T1-E3CT-ND	.95	.69	.63	3,000	294.00/M	SI2314EDS-T1-E3
		20	3.9	0.025	SI2312BDS-T1-E3CT-ND	.72	.52	.48	3,000	224.00/M	SI2312BDS-T1-E3
		30	2.6	0.055	SI2304BDS-T1-E3CT-ND	.78	.52	.47	3,000	210.00/M	SI2304BDS-T1-E3
		30	2.9	0.042	SI2316DS-T1-E3CT-ND	1.55	1.12	1.05	3,000	486.00/M	SI2316DS-T1-E3
		30	3.16	0.038	SI2306BDS-T1-E3CT-ND	.76	.50	.45	3,000	202.50/M	SI2306BDS-T1-E3
		40	3.0	0.036	SI2318DS-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI2318DS-T1-E3
		60	2.0	0.125	SI2308DS-T1-E3CT-ND	.90	.65	.60	3,000	280.00/M	SI2308DS-T1-E3
		60	.300	2	2N7002K-T1-E3CT-ND	.38	.21	.16	3,000	60.00/M	2N7002K-T1-E3
		100	1.15	0.195	SI2328DS-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI2328DS-T1-E3
		240	0.2	2.2	TN2404K-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	TN2404K-T1-E3
15	SOT-323	20	0.4	0.65	SI1300BDL-T1-E3CT-ND	.56	.36	.29	3,000	128.00/M	SI1300BDL-T1-E3
		30	0.60	0.410	SI1302DL-T1-E3CT-ND	.53	.36	.32	3,000	142.50/M	SI1302DL-T1-E3
		30	0.90	0.216	SI1304BDL-T1-E3CT-ND	.53	.36	.32	3,000	142.50/M	SI1304BDL-T1-E3
		60	0.24	1.0	SI1330EDL-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1330EDL-T1-E3
16	SOT-363	8	6.04	0.039	SI1450DH-T1-E3CT-ND	.77	.56	.51	3,000	238.00/M	SI1450DH-T1-E3
		20	1.6	0.123	SI1400DL-T1-E3CT-ND	.76	.50	.45	3,000	202.50/M	SI1400DL-T1-E3
		20	6.1	0.041	SI1488DH-T1-E3CT-ND	.76	.50	.45	3,000	202.50/M	SI1488DH-T1-E3

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Bulk

Multiple pinout configurations available, see Digi-Key website for data sheet.

Fig. 1 — 1206-8

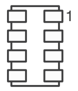

Fig. 2 — 1212-8

A

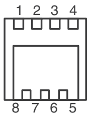

B

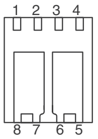

Fig. 3 — 4-MFP

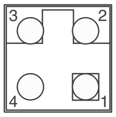

Fig. 4 — 6-MFP

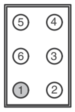

Fig. 5 — 10-MFP

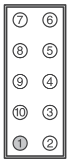

(Continued)

Fig.	Package	V_{DSS} (V)	I_D (A)	R_{DS}(on) (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	Vishay Part No.
16	SOT-363	30	2.8	0.061	SI1426DH-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1426DH-T1-E3
		30	5.1	0.055	SI1470DH-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1470DH-T1-E3
		30	5.6	0.046	SI1472DH-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1472DH-T1-E3
17	SOT-563	8	1.34	0.071	SI1050X-T1-E3CT-ND	.76	.50	.45	3,000	202.50/M	SI1050X-T1-E3
		20	.180	5	SI1034X-T1-E3CT-ND	.67	.45	.40	3,000	180.00/M	SI1034X-T1-E3
		20	1.32	0.074	SI1056X-T1-E3CT-ND	.76	.50	.45	3,000	202.50/M	SI1056X-T1-E3
		20	1.3	0.076	SI1058X-T1-E3CT-ND	.76	.50	.45	3,000	202.50/M	SI1058X-T1-E3
		30	1.2	0.082	SI1070X-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1070X-T1-E3
		30	1.3	0.077	SI1072X-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1072X-T1-E3
18	6-TSOP	20	6	0.031	SI3446ADV-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI3446ADV-T1-E3
		20	8	0.023	SI3460BDV-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI3460BDV-T1-E3
		20	2.0	0.100	SI3812DV-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI3812DV-T1-E3
		20	3.0	0.045	SI3442BDV-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI3442BDV-T1-E3
		30	3.4	0.048	SI3454ADV-T1-E3CT-ND	.86	.62	.57	3,000	266.00/M	SI3454ADV-T1-E3
		30	4.5	0.028	SI3456BDV-T1-E3CT-ND	.77	.56	.51	3,000	238.00/M	SI3456BDV-T1-E3
		30	4.6	0.028	SI3434DV-T1-E3CT-ND	1.10	.80	.74	3,000	343.00/M	SI3434DV-T1-E3
		30	5.0	0.023	SI3424DV-T1-E3CT-ND	1.81	1.31	1.22	3,000	567.00/M	SI3424DV-T1-E3
		60	3.2	0.085	SI3458DV-T1-E3CT-ND	2.11	1.52	1.43	3,000	661.50/M	SI3458DV-T1-E3
		100	1.8	0.148	SI3430DV-T1-E3CT-ND	1.55	1.12	1.05	3,000	486.00/M	SI3430DV-T1-E3
		150	1.2	0.310	SI3440DV-T1-E3CT-ND	1.89	1.37	1.28	3,000	594.00/M	SI3440DV-T1-E3
19	8-TSSOP	30	7.8	0.011	SI6410DQ-T1-E3CT-ND	3.99	2.76	2.62	3,000	1235.00/M	SI6410DQ-T1-E3
21A	8-SOIC	12	17	0.0024	SI4838DY-T1-E3CT-ND	4.37	3.08	2.92	2,500	1433.60/M	SI4838DY-T1-E3
		20	19	0.0022	SI4378DY-T1-E3CT-ND	4.10	2.89	2.73	2,500	1344.00/M	SI4378DY-T1-E3
		20	19	0.0023	SI4398DY-T1-E3CT-ND	4.34	3.23	3.10	2,500	1587.20/M	SI4398DY-T1-E3
		20	9.5	0.0055	SI4466DY-T1-E3CT-ND	3.78	2.61	2.48	2,500	1170.00/M	SI4466DY-T1-E3
		20	14	0.0035	SI4408DY-T1-E3CT-ND	4.68	3.30	3.12	2,500	1536.00/M	SI4408DY-T1-E3
		20	14	0.0037	SI4876DY-T1-E3CT-ND	4.10	2.89	2.73	2,500	1344.00/M	SI4876DY-T1-E3
		25	40	0.0022	SI4630DY-T1-E3CT-ND	3.61	2.50	2.37	2,500	1118.00/M	SI4630DY-T1-E3
		25	40	0.0022	SI4632DY-T1-E3CT-ND	3.61	2.50	2.37	2,500	1118.00/M	SI4632DY-T1-E3
		30	5.9	0.019	SI4346DY-T1-E3CT-ND	1.16	.84	.79	2,500	364.50/M	SI4346DY-T1-E3
		30	6.5	0.0155	SI4800BDY-T1-E3CT-ND	1.51	1.09	1.02	2,500	472.50/M	SI4800BDY-T1-E3
		30	7.3	0.013	SI4812BDY-T1-E3CT-ND	1.55	1.12	1.05	2,500	486.00/M	SI4812BDY-T1-E3
		30	7.5	0.028	SI4620DY-T1-E3CT-ND	1.08	.78	.73	2,500	337.50/M	SI4620DY-T1-E3
		30	8.0	0.0105	SI4348DY-T1-E3CT-ND	2.86	1.98	1.87	2,500	884.00/M	SI4348DY-T1-E3
		30	8.9	0.009	SI4894BDY-T1-E3CT-ND	1.63	1.18	1.11	2,500	513.00/M	SI4894BDY-T1-E3
		30	9.5	0.007	SI4420BDY-T1-E3CT-ND	2.39	1.66	1.57	2,500	741.00/M	SI4420BDY-T1-E3
		30	10	0.007	SI4384DY-T1-E3CT-ND	2.06	1.49	1.40	2,500	648.00/M	SI4384DY-T1-E3
		30	11	0.0058	SI4386DY-T1-E3CT-ND	2.23	1.54	1.46	2,500	689.00/M	SI4386DY-T1-E3
		30	11	0.0098	SI4890DY-T1-E3CT-ND	3.99	2.76	2.62	2,500	1235.00/M	SI4890DY-T1-E3
		30	12	0.0057	SI4874BDY-T1-E3CT-ND	2.81	1.95	1.85	2,500	871.00/M	SI4874BDY-T1-E3
		30	14	0.0037	SI4430BDY-T1-E3CT-ND	3.11	2.15	2.04	2,500	962.00/M	SI4430BDY-T1-E3
		30	15	0.0035	SI4442DY-T1-E3CT-ND	3.96	2.94	2.83	2,500	1446.40/M	SI4442DY-T1-E3
		30	16	0.0095	SI4396DY-T1-E3CT-ND	1.81	1.31	1.22	2,500	567.00/M	SI4396DY-T1-E3
		30	17	0.0026	SI4336DY-T1-E3CT-ND	4.27	3.18	3.05	2,500	1561.60/M	SI4336DY-T1-E3
		30	17	0.0026	SI4368DY-T1-E3CT-ND	4.52	3.19	3.02	2,500	1484.80/M	SI4368DY-T1-E3
		30	18	0.007	SI4322DY-T1-E3CT-ND	2.27	1.57	1.49	2,500	702.00/M	SI4322DY-T1-E3
		30	18.2	0.0078	SI4686DY-T1-E3CT-ND	1.94	1.40	1.31	2,500	607.50/M	SI4686DY-T1-E3
		30	34	0.0031	SI4642DY-T1-E3CT-ND	3.19	2.21	2.09	2,500	988.00/M	SI4642DY-T1-E3
		40	3.9	0.033	SI4446DY-T1-E3CT-ND	.86	.62	.57	2,500	266.00/M	SI4446DY-T1-E3
		40	10	0.0075	SI4840DY-T1-E3CT-ND	3.11	2.15	2.04	2,500	962.00/M	SI4840DY-T1-E3
		40	33	0.0031	SI4456DY-T1-E3CT-ND	3.78	2.61	2.48	2,500	1170.00/M	SI4456DY-T1-E3
		60	6.0	0.018	SI4850EY-T1-E3CT-ND	2.39	1.66	1.57	2,500	741.00/M	SI4850EY-T1-E3
		60	8	0.030	SI4436DY-T1-E3CT-ND	1.16	.84	.79	2,500	364.50/M	SI4436DY-T1-E3
		60	9.0	0.009	SI4470EY-T1-E3CT-ND	3.78	2.61	2.48	2,500	1170.00/M	SI4470EY-T1-E3
		80	6.0	0.026	SI4480DY-T1-E3CT-ND	3.19	2.21	2.09	2,500	988.00/M	SI4480DY-T1-E3
		80	6.7	0.0135	SI4896DY-T1-E3CT-ND	3.82	2.64	2.51	2,500	1183.00/M	SI4896DY-T1-E3
		100	4.8	0.028	SI4484EY-T1-E3CT-ND	2.86	1.98	1.87	2,500	884.00/M	SI4484EY-T1-E3
		100	5.4	0.021	SI4486EY-T1-E3CT-ND	3.49	2.41	2.29	2,500	1079.00/M	SI4486EY-T1-E3
		150	2.7	0.068	SI4848DY-T1-E3CT-ND	2.02	1.46	1.37	2,500	634.50/M	SI4848DY-T1-E3
		150	3.5	0.041	SI4488DY-T1-E3CT-ND	3.57	2.47	2.34	2,500	1105.00/M	SI4488DY-T1-E3
		150	7.7	0.036	SI4472DY-T1-E3CT-ND	4.34	3.23	3.10	2,500	1587.20/M	SI4472DY-T1-E3
		200	1.15	0.39	SI4462DY-T1-E3CT-ND	1.63	1.18	1.11	2,500	513.00/M	SI4462DY-T1-E3
		200	1.7	0.195	SI4464DY-T1-E3CT-ND	2.14	1.48	1.41	2,500	663.00/M	SI4464DY-T1-E3
		200	2.3	0.110	SI4418DY-T1-E3CT-ND	3.19	2.21	2.09	2,500	988.00/M	SI4418DY-T1-E3
		200	2.85	0.065	SI4490DY-T1-E3CT-ND	3.82	2.64	2.51	2,500	1183.00/M	SI4490DY-T1-E3
		250	2.1	0.129	SI4434DY-T1-E3CT-ND	4.45	3.14	2.97	2,500	1459.20/M	SI4434DY-T1-E3
21B	8-SOIC	12	20	0.0020	SI7858ADP-T1-E3CT-ND	4.80	3.57	3.43	3,000	1753.60/M	SI7858ADP-T1-E3
		20	11	0.006	SI7344DP-T1-E3CT-ND	2.86	1.98	1.87	3,000	884.00/M	SI7344DP-T1-E3
		20	13	0.0045	SI7366DP-T1-E3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SI7366DP-T1-E3
		20	13.4	0.0054	SI7448DP-T1-E3CT-ND	3.99	2.76	2.62	3,000	1235.00/M	SI7448DP-T1-E3
		20	30	0.0026	SI7136DP-T1-E3CT-ND	3.99	2.76	2.62	3,000	1235.00/M	SI7136DP-T1-E3
		20	40	0.0019	SI7866ADP-T1-E3CT-ND	5.58	3.94	3.72	3,000	1830.40/M	SI7866ADP-T1-E3
		30	11	0.007	SI7384DP-T1-E3CT-ND	3.15	2.18	2.07	3,000	975.00/M	SI7384DP-T1-E3
		30	12	0.0058	SI7386DP-T1-E3CT-ND	2.39	1.66	1.57	3,000	741.00/M	SI7386DP-T1-E3
		30	14	0.0037	SI7382DP-T1-E3CT-ND	3.02	2.09	1.98	3,000	936.00/M	SI7382DP-T1-E3
		30	15	0.0034	SI7892BDP-T1-E3CT-ND	4.17	2.95	2.79	3,000	1369.60/M	SI7892BDP-T1-E3
		30	17	0.0033	SI7636DP-T1-E3CT-ND	3.53	2.44	2.31	3,000	1092.00/M	SI7636DP-T1-E3
		30	24	0.0046	SI7374DP-T1-E3CT-ND	3.99	2.97	2.85	3,000	1459.20/M	SI7374DP-T1-E3
		30	30	0.0024	SI7336ADP-T1-E3CT-ND	4.10	2.89	2.73	3,000	1344.00/M	SI7336ADP-T1-E3
		30	35	0.0078	SI7686DP-T1-E3CT-ND	2.11	1.52	1.43	3,000	661.50/M	SI7686DP-T1-E3
		40	10.4	0.0075	SI7848DP-T1-E3CT-ND	4.62	3.44	3.30	3,000	1689.60/M	SI7848DP-T1-E3
		40	15	0.0042	SI7476DP-T1-E3CT-ND	4.45	3.14	2.97	3,000	1459.20/M	SI7476DP-T1-E3
		60	6.2	0.018	SI7850DP-T1-E3CT-ND	2.81	1.95	1.85	3,000	871.00/M	SI7850DP-T1-E3
		60	9.6	0.009	SI7370DP-T1-E3CT-ND	4.16	2.88	2.73	3,000	1287.00/M	SI7370DP-T1-E3
		60	15	0.006	SI7478DP-T1-E3CT-ND	4.45	3.14	2.97	3,000	1459.20/M	SI7478DP-T1-E3
		60	30	0.0065	SI7138DP-T1-E3CT-ND	4.45	3.14	2.97	3,000	1459.20/M	SI7138DP-T1-E3
		75	28	0.0091	SI7148DP-T1-E3CT-ND	4.10	2.89	2.73	3,000	1344.00/M	SI7148DP-T1-E3
		80	7.6	0.0135	SI7852DP-T1-E3CT-ND	4.13	2.92	2.76	3,000	1356.80/M	SI7852DP-T1-E3
		100	5.0	0.028	SI7454DP-T1-E3CT-ND	3.19	2.21	2.09	3,000	988.00/M	SI7454DP-T1-E3
		100	5.7	0.021	SI7456DP-T1-E3CT-ND	3.82	2.64	2.51	3,000	1183.00/M	SI7456DP-T1-E3
		150	3.0	0.068	SI7898DP-T1-E3CT-ND	2.48	1.72	1.63	3,000	767.00/M	SI7898DP-T1-E3
		150	24.5	0.041	SI7846DP-T1-E3CT-ND	3.99	2.76	2.62	3,000	1235.00/M	SI7846DP-T1-E3
		150	26	0.036	SI7430DP-T1-E3CT-ND	5.04	3.75	3.60	3,000	1843.20/M	SI7430DP-T1-E3
		200	1.8	0.195	SI7464DP-T1-E3CT-ND	2.56	1.77	1.68	3,000	793.00/M	SI7464DP-T1-E3
		200	2.6	0.110	SI7462DP-T1-E3CT-ND	3.53	2.44	2.31	3,000	1092.00/M	SI7462DP-T1-E3
		200	3.2	0.065	SI7450DP-T1-E3CT-ND	4.07	2.82	2.67	3,000	1261.00/M	SI7450DP-T1-E3
		250	2.3	0.129	SI7434DP-T1-E3CT-ND	4.84	3.41	3.23	3,000	1587.20/M	SI7434DP-T1-E3
Dual N-Channel											
1	1206-8	8	4	0.025	SI5920DC-T1-E3CT-ND	1.38	1.00	.93	3,000	432.00/M	SI5920DC-T1-E3
		20	3.1	0.065	SI5904DC-T1-E3CT-ND	1.38	1.00	.93	3,000	432.00/M	SI5904DC-T1-E3
		20	4.4	0.032	SI5908DC-T1-E3CT-ND	1.72	1.24	1.16	3,000	540.00/M	SI5908DC-T1-E3
		30	2.9	0.072	SI5902DC-T1-E3CT-ND	1.89	1.37	1.28	3,000	594.00/M	SI5902DC-T1-E3

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Bulk

Multiple pinout configurations available, see Digi-Key website for data sheet.

Fig. 6 — 10-PolarPAK

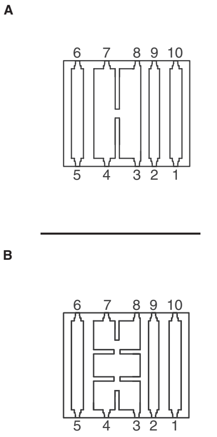

Fig. 7 — 6-PowerPAK

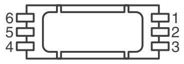

Fig. 8 — D2PAK

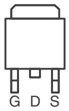

Fig. 9 — 8-PowerPAK / P-PAK

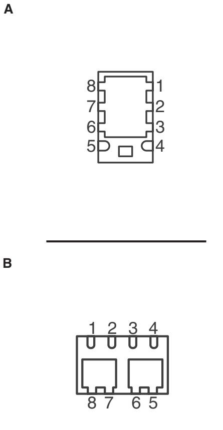

(Continued)

Multiple pinout configurations available, see Digi-Key website for data sheet.

Fig.	Package	V_{DSS} (V)	I_D (A)	R_{DS}(on) (Ω)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Vishay Part No.
						1	25	100	Qty.	Pricing	
2A	1212-8	20	6	0.020	SI7900AEDN-T1-E3CT-ND	2.11	1.52	1.43	3,000	661.50/M	SI7900AEDN-T1-E3
2B	1212-8	20	6	0.025	SI7904BDN-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI7904BDN-T1-E3
		30	4.6	0.0333	SI7214DN-T1-E3CT-ND	2.06	1.49	1.40	3,000	648.00/M	SI7214DN-T1-E3
		30	4.9	0.030	SI7212DN-T1-E3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SI7212DN-T1-E3
		40	6	0.025	SI7216DN-T1-E3CT-ND	2.06	1.49	1.40	3,000	648.00/M	SI7216DN-T1-E3
		40	6	0.035	SI7222DN-T1-E3CT-ND	4.13	3.07	2.95	3,000	1510.40/M	SI7222DN-T1-E3
		60	3.4	0.048	SI7220DN-T1-E3CT-ND	3.71	2.76	2.65	3,000	1356.80/M	SI7220DN-T1-E3
		100	1.8	0.162	SI7922DN-T1-E3CT-ND	2.39	1.66	1.57	3,000	741.00/M	SI7922DN-T1-E3
9B	8-PowerPAK	20	6	0.032	SI5938DU-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI5938DU-T1-E3
		40	6	0.093	SI5944DU-T1-E3CT-ND	1.55	1.12	1.05	3,000	486.00/M	SI5944DU-T1-E3
10A	SC70-6	20	4.5	0.043	SIA914DJ-T1-E3CT-ND	1.16	.84	.79	3,000	364.50/M	SIA914DJ-T1-E3
16	SOT-363	20	0.66	0.320	SI1902DL-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1902DL-T1-E3
		20	1.13	0.220	SI1912EDH-T1-E3CT-ND	1.59	1.15	1.08	3,000	499.50/M	SI1912EDH-T1-E3
		20	1.3	0.139	SI1988DH-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1988DH-T1-E3
		20	1.3	0.165	SI1958DH-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1958DH-T1-E3
		30	1.3	0.155	SI1972DH-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1972DH-T1-E3
		30	1.3	0.185	SI1970DH-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1970DH-T1-E3
17	SOT-563	20	.485	0.41	SI1024X-T1-E3CT-ND	.67	.45	.40	3,000	180.00/M	SI1024X-T1-E3
		60	.305	1.40	SI1026X-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1026X-T1-E3
18	6-TSOP	20	2.0	0.100	SI3900DV-T1-E3CT-ND	1.38	1.00	.93	3,000	432.00/M	SI3900DV-T1-E3
		30	2.5	0.0085	SI3948DV-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI3948DV-T1-E3
19	8-TSSOP	20	3.3	0.035	SI6925ADQ-T1-E3CT-ND	1.55	1.12	1.05	3,000	486.00/M	SI6925ADQ-T1-E3
		20	4.1	0.024	SI6926ADQ-T1-E3CT-ND	1.55	1.12	1.05	3,000	486.00/M	SI6926ADQ-T1-E3
		20	5.2	0.0165	SI6968BEDQ-T1-E3CT-ND	1.72	1.24	1.16	3,000	540.00/M	SI6968BEDQ-T1-E3
		30	3.1	0.044	SI6954ADQ-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI6954ADQ-T1-E3
		30	4.0	0.027	SI6928DQ-T1-E3CT-ND	2.27	1.57	1.49	3,000	702.00/M	SI6928DQ-T1-E3
20	14-SOIC	20	7.3/9.5	0.0095/0.007	SI4340DY-T1-E3CT-ND	3.44	2.38	2.26	2,500	1066.00/M	SI4340DY-T1-E3
21A	8-SOIC	20	6.2	0.016	SI9926BDY-T1-E3CT-ND	1.81	1.31	1.22	2,500	567.00/M	SI9926BDY-T1-E3
		30	5.7	0.017	SI4804BDY-T1-E3CT-ND	1.63	1.18	1.11	2,500	513.00/M	SI4804BDY-T1-E3
		30	5.7	0.017	SI4830ADY-T1-E3CT-ND	2.39	1.66	1.57	2,500	741.00/M	SI4830ADY-T1-E3
		30	5.7	0.017	SI4834BDY-T1-E3CT-ND	2.06	1.49	1.40	2,500	648.00/M	SI4834BDY-T1-E3
		30	6.6	0.013	SI4330DY-T1-E3CT-ND	2.56	1.77	1.68	2,500	793.00/M	SI4330DY-T1-E3
		30	6.9	0.029	SI4936BDY-T1-E3CT-ND	1.63	1.18	1.11	2,500	513.00/M	SI4936BDY-T1-E3
		30	8	0.0135	SI4922BDY-T1-E3CT-ND	2.23	1.54	1.46	2,500	689.00/M	SI4922BDY-T1-E3
		30	9.3	0.0075	SI4944DY-T1-E3CT-ND	3.99	2.76	2.62	2,500	1235.00/M	SI4944DY-T1-E3
		30	10.7/11.3	0.013/0.0125	SI4388DY-T1-E3CT-ND	2.39	1.66	1.57	2,500	741.00/M	SI4388DY-T1-E3
		30	8.0/15.2	0.014/0.0083	SI4618DY-T1-E3CT-ND	3.19	2.21	2.09	2,500	988.00/M	SI4618DY-T1-E3
		30	5.8/8.2	0.0155/0.0093	SI4816BDY-T1-E3CT-ND	2.23	1.54	1.46	2,500	689.00/M	SI4816BDY-T1-E3
		30	5.5/5.7	0.019/0.016	SI4914DY-T1-E3CT-ND	2.69	1.86	1.76	2,500	832.00/M	SI4914DY-T1-E3
		30	10/10.5	0.0145/0.015	SI4916DY-T1-E3CT-ND	2.23	1.54	1.46	2,500	689.00/M	SI4916DY-T1-E3
		30	10.8/7.2	0.012/0.022	SI4972DY-T1-E3CT-ND	2.81	1.95	1.85	2,500	871.00/M	SI4972DY-T1-E3
		30	6.0/4.4	0.016/0.029	SI4974DY-T1-E3CT-ND	2.10	1.45	1.38	2,500	650.00/M	SI4974DY-T1-E3
		40	5	0.048	SI4908DY-T1-E3CT-ND	1.08	.78	.73	2,500	337.50/M	SI4908DY-T1-E3
		40	6.6	0.032	SI4906DY-T1-E3CT-ND	1.16	.84	.79	2,500	364.50/M	SI4906DY-T1-E3
		40	7.6	0.022	SI4910DY-T1-E3CT-ND	1.81	1.31	1.22	2,500	567.00/M	SI4910DY-T1-E3
		40	8	0.013	SI4904DY-T1-E3CT-ND	3.02	2.09	1.98	2,500	936.00/M	SI4904DY-T1-E3
		60	5.3	0.046	SI4900DY-T1-E3CT-ND	1.55	1.12	1.05	2,500	486.00/M	SI4900DY-T1-E3
		60	6.5	0.033	SI4946BEY-T1-E3CT-ND	2.23	1.54	1.46	2,500	689.00/M	SI4946BEY-T1-E3
		75	3.6	0.039	SI4992EY-T1-E3CT-ND	3.99	2.76	2.62	2,500	1235.00/M	SI4992EY-T1-E3
21C	8-SOIC	30	6.3	0.018	SI7842DP-T1-E3CT-ND	3.11	2.15	2.04	3,000	962.00/M	SI7842DP-T1-E3
		30	6.4	0.018	SI7844DP-T1-E3CT-ND	3.07	2.12	2.01	3,000	949.00/M	SI7844DP-T1-E3
		30	6.4	0.017/0.016	SI7872DP-T1-E3CT-ND	2.90	2.01	1.90	3,000	897.00/M	SI7872DP-T1-E3
		40	7.1	0.0135	SI7962DP-T1-E3CT-ND	4.52	3.36	3.23	3,000	1651.20/M	SI7962DP-T1-E3
		40	7.2	0.013	SI7958DP-T1-E3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SI7958DP-T1-E3
		60	6.1	0.019	SI7964DP-T1-E3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SI7964DP-T1-E3
		60	6.2	0.017	SI7960DP-T1-E3CT-ND	3.99	2.76	2.62	3,000	1235.00/M	SI7960DP-T1-E3
		100	3.8	0.041	SI7942DP-T1-E3CT-ND	4.10	2.89	2.73	3,000	1344.00/M	SI7942DP-T1-E3
		150	2.1	0.124	SI7946DP-T1-E3CT-ND	5.36	3.98	3.83	3,000	1958.40/M	SI7946DP-T1-E3
		150	2.6	0.088	SI7956DP-T1-E3CT-ND	4.45	3.14	2.97	3,000	1459.20/M	SI7956DP-T1-E3
					P-Channel						
1	1206-8	8	5.2	0.027	SI5445BDC-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI5445BDC-T1-E3
		8	6	0.030	SI5499DC-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI5499DC-T1-E3
		12	5.9	0.022	SI5473DC-T1-E3CT-ND	1.33	.97	.90	3,000	418.50/M	SI5473DC-T1-E3
		20	2.7	0.095	SI5853DC-T1-E3CT-ND	2.48	1.72	1.63	3,000	767.00/M	SI5853DC-T1-E3
		20	2.7	0.095	SI5855DC-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI5855DC-T1-E3
		20	3.5	0.064	SI5447DC-T1-E3CT-ND	1.16	.84	.79	3,000	364.50/M	SI5447DC-T1-E3
		20	3.8	0.051	SI5463EDC-T1-E3CT-ND	2.35	1.63	1.54	3,000	728.00/M	SI5463EDC-T1-E3
		20	4.4	0.036	SI5441BDC-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI5441BDC-T1-E3
		20	4.8	0.030	SI5433BDC-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI5433BDC-T1-E3
		20	5.2	0.026	SI5401DC-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SI5401DC-T1-E3
		30	4.3	0.035	SI5435BDC-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI5435BDC-T1-E3
2A	1212-8	20	7.5	0.015	SI7411DN-T1-E3CT-ND	1.55	1.12	1.05	3,000	486.00/M	SI7411DN-T1-E3
		20	8	0.059	SI7403BDN-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SI7403BDN-T1-E3
		20	8.4	0.012	SI7413DN-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI7413DN-T1-E3
		20	9.8	0.0090	SI7107DN-T1-E3CT-ND	2.39	1.66	1.57	3,000	741.00/M	SI7107DN-T1-E3
		30	6.4	0.020	SI7421DN-T1-E3CT-ND	1.81	1.31	1.22	3,000	567.00/M	SI7421DN-T1-E3
		30	7	0.0015	SI7409ADN-T1-E3CT-ND	3.44	2.38	2.26	3,000	1066.00/M	SI7409ADN-T1-E3
		30	7.4	0.014	SI7423DN-T1-E3CT-ND	1.98	1.43	1.34	3,000	621.00/M	SI7423DN-T1-E3
		60	3.6	0.054	SI7415DN-T1-E3CT-ND	2.39	1.66	1.57	3,000	741.00/M	SI7415DN-T1-E3
		60	8	0.092	SI7309DN-T1-E3CT-ND	1.29	.93	.87	3,000	405.00/M	SI7309DN-T1-E3
		100	13.2	0.108	SI7113DN-T1-E3CT-ND	3.95	2.73	2.59	3,000	1222.00/M	SI7113DN-T1-E3
		150	2.17	1.0	SI7117DN-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI7117DN-T1-E3
		200	3.8	0.86	SI7119DN-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI7119DN-T1-E3
2B	1212-8	20	4.3	0.041	SI7703EDN-T1-E3CT-ND	1.81	1.31	1.22	3,000	567.00/M	SI7703EDN-T1-E3
3	4-MFP	8	11.7	0.029	SI8429DB-T1-E1CT-ND	1.29	.93	.87	3,000	405.00/M	SI8429DB-T1-E1
		12	3.6	0.045	SI8405DB-T1-E1CT-ND	3.11	2.15	2.04	3,000	962.00/M	SI8405DB-T1-E1
		12	5.3	0.031	SI8415DB-T1-E1CT-ND	1.46	1.06	.99	3,000	459.00/M	SI8415DB-T1-E1
		20	3.6	0.057	SI8401DB-T1-E1CT-ND	3.11	2.15	2.04	3,000	962.00/M	SI8401DB-T1-E1
		20	4.8	0.0393	SI8413DB-T1-E1CT-ND	1.72	1.24	1.16	3,000	540.00/M	SI8413DB-T1-E1
		20	10.0	0.034	SI8435DB-T1-E1CT-ND	1.25	.90	.85	3,000	391.50/M	SI8435DB-T1-E1
		30	4.6	0.038	SI8409DB-T1-E1CT-ND	1.38	1.00	.93	3,000	432.00/M	SI8409DB-T1-E1
4	6-MFP	20	5.8	0.022	SI8407DB-T2-E1CT-ND	2.06	1.49	1.40	3,000	648.00/M	SI8407DB-T2-E1
		20	3.5	0.048	SI8901EDB-T2-E1CT-ND	2.14	1.48	1.41	3,000	663.00/M	SI8901EDB-T2-E1
8	D2PAK	40	110	0.0041	SUM110P04-05-E3CT-ND	6.67	4.71	4.45	800	1915.20	SUM110P04-05-E3
		60	55	0.015	SUM55P06-19L-E3CT-ND	3.99	2.76	2.62	800	1083.00	SUM55P06-19L-E3
		60	110	0.0055	SUM110P06-07L-E3CT-ND	6.67	4.71	4.45	800	1915.20	SUM110P06-07L-E3
		80	110	0.092	SUM110P08-11L-E3CT-ND	6.32	4.46	4.22	800	1814.40	SUM110P08-11L-E3
		100	90	0.0156	SUM90P10-19L-E3CT-ND	6.32	4.46	4.22	800	1814.40	SUM90P10-19L-E3
		30	75	0.0055	SUB75P03-07-E3-ND†	6.06	5.05	4.25	—	—	SUB75P03-07-E3
9A	P-PAK	20	12	0.018	SI5481DU-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI5481DU-T1-E3
		20	12	0.021	SI5485DU-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI5485DU-T1-E3
9B	8-PowerPAK	20	6.0	0.048	SI5857DU-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI5857DU-T1-E3
10A	SC70-6	20	4.5	0.078	SIA811DJ-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SIA811DJ-T1-E3
10B	SC70-6	20	9	0.037	SIA443DJ-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SIA443DJ-T1-E3

‡ For Tape and Reel part number, change CT-ND to TR-ND.   † Bulk

Fig. 10 — SC70-6

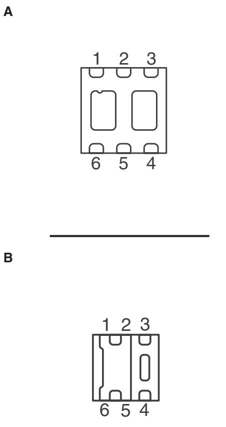

Fig. 11 — SC-75A

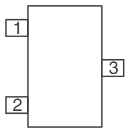

Fig. 12 — SC75-6

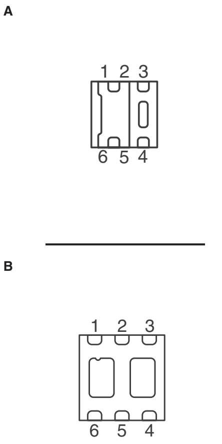

Fig. 13 — SC-89

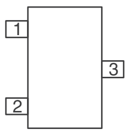

(Continued)

Fig.	Package	V_{DSS} (V)	I_D (A)	$R_{DS}(on)$ (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing	Vishay Part No.
10B	SC70-6	20	12	0.025	SIA411DJ-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SIA411DJ-T1-E3
11	SC-75A	20	.140	8	SI1031R-T1-E3CT-ND	.50	.34	.30	3,000	135.00/M	SI1031R-T1-E3
		20	.350	0.8	SI1013R-T1-E3CT-ND	.59	.39	.35	3,000	157.50/M	SI1013R-T1-E3
		60	.190	4	SI1021R-T1-E3CT-ND	.67	.45	.40	3,000	180.00/M	SI1021R-T1-E3
12A	SC75-6	20	-9	0.055	SIB411DK-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SIB411DK-T1-E3
13	SC-89	20	.350	0.8	SI1013X-T1-E3CT-ND	.53	.36	.32	3,000	142.50/M	SI1013X-T1-E3
14	SOT-23	8	3.5	0.044	SI2305DS-T1-E3CT-ND	1.29	.93	.87	3,000	405.00/M	SI2305DS-T1-E3
		12	3.0	0.040	SI2315BDS-T1-E3CT-ND	.77	.56	.51	3,000	238.00/M	SI2315BDS-T1-E3
		12	4.1	0.025	SI2333DS-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SI2333DS-T1-E3
		20	0.58	0.42	TP0101K-T1-E3CT-ND	.67	.45	.40	3,000	180.00/M	TP0101K-T1-E3
		20	2.2	0.080	SI2301BDS-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI2301BDS-T1-E3
		20	2.8	0.092	SI2351DS-T1-E3CT-ND	.86	.62	.57	3,000	266.00/M	SI2351DS-T1-E3
		20	3.7	0.031	SI2323DS-T1-E3CT-ND	1.33	.97	.90	3,000	418.50/M	SI2323DS-T1-E3
		30	1.49	0.150	SI2303BDS-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI2303BDS-T1-E3
		30	2.5	0.063	SI2307BDS-T1-E3CT-ND	.86	.62	.57	3,000	266.00/M	SI2307BDS-T1-E3
		30	3.1	0.043	SI2343DS-T1-E3CT-ND	1.33	.97	.90	3,000	418.50/M	SI2343DS-T1-E3
		30	.385	1.25	TP0202K-T1-E3CT-ND	.78	.52	.47	3,000	210.00/M	TP0202K-T1-E3
		40	2.3	0.065	SI2319DS-T1-E3CT-ND	.86	.62	.57	3,000	266.00/M	SI2319DS-T1-E3
		60	1.25	0.275	SI2309DS-T1-E3CT-ND	1.38	1.00	.93	3,000	432.00/M	SI2309DS-T1-E3
		60	.185	6	TP0610K-T1-E3CT-ND	.56	.37	.33	3,000	150.00/M	TP0610K-T1-E3
		80	2.2	0.216	SI2337DS-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI2337DS-T1-E3
		150	0.53	1.0	SI2325DS-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI2325DS-T1-E3
		200	0.38	1.9	SI2327DS-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI2327DS-T1-E3
15	SOT-323	8	0.86	0.230	SI1305DL-T1-E3CT-ND	.62	.41	.37	3,000	165.00/M	SI1305DL-T1-E3
		12	0.85	0.240	SI1307EDL-T1-E3CT-ND	.62	.41	.37	3,000	165.00/M	SI1307EDL-T1-E3
		20	0.67	0.360	SI1303DL-T1-E3CT-ND	.62	.41	.37	3,000	165.00/M	SI1303DL-T1-E3
16	SOT-363	8	1.6	0.0622	SI1499DH-T1-E3CT-ND	.77	.56	.51	3,000	238.00/M	SI1499DH-T1-E3
		12	2.7	0.070	SI1417EDH-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1417EDH-T1-E3
		20	1.4	0.120	SI1403BDL-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1403BDL-T1-E3
		20	1.6	0.065	SI1469DH-T1-E3CT-ND	.72	.52	.48	3,000	224.00/M	SI1469DH-T1-E3
		20	2.3	0.095	SI1413EDH-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1413EDH-T1-E3
		30	1.6	0.080	SI1471DH-T1-E3CT-ND	.72	.52	.48	3,000	224.00/M	SI1471DH-T1-E3
		30	1.6	0.084	SI1473DH-T1-E3CT-ND	.72	.52	.48	3,000	224.00/M	SI1473DH-T1-E3
		30	1.9	0.120	SI1433DH-T1-E3CT-ND	.77	.56	.51	3,000	238.00/M	SI1433DH-T1-E3
		150	0.42	2.05	SI1411DH-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI1411DH-T1-E3
		200	0.3	3.98	SI1419DH-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI1419DH-T1-E3
17	SOT-563	12	0.87	0.140	SI1039X-T1-E3CT-ND	.95	.69	.63	3,000	294.00/M	SI1039X-T1-E3
		12	1.18	0.108	SI1065X-T1-E3CT-ND	.86	.62	.57	3,000	266.00/M	SI1065X-T1-E3
		20	1.06	0.125	SI1067X-T1-E3CT-ND	.86	.62	.57	3,000	266.00/M	SI1067X-T1-E3
		20	.145	8	SI1033X-T1-E3CT-ND	.59	.39	.35	3,000	157.50/M	SI1033X-T1-E3
		30	0.96	0.139	SI1071X-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1071X-T1-E3
18	6-TSOP	8	5.3	0.019	SI3499DV-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI3499DV-T1-E3
		12	4.5	0.033	SI3447BDV-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI3447BDV-T1-E3
		12	5.9	0.019	SI3473DV-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI3473DV-T1-E3
		20	1.6	0.160	SI3853DV-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI3853DV-T1-E3
		20	2.45	0.070	SI3441BDV-T1-E3CT-ND	.76	.50	.45	3,000	202.50/M	SI3441BDV-T1-E3
		20	2.8	0.092	SI3451DV-T1-E3CT-ND	.86	.62	.57	3,000	266.00/M	SI3451DV-T1-E3
		20	3.0	0.065	SI3465DV-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI3465DV-T1-E3
		20	3.6	0.048	SI3443BDV-T1-E3CT-ND	.77	.56	.51	3,000	238.00/M	SI3443BDV-T1-E3
		20	3.8	0.042	SI3467DV-T1-E3CT-ND	.77	.56	.51	3,000	238.00/M	SI3467DV-T1-E3
		20	3.9	0.041	SI3867DV-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI3867DV-T1-E3
		20	4.3	0.034	SI3433BDV-T1-E3CT-ND	1.08	.78	.72	3,000	336.00/M	SI3433BDV-T1-E3
		20	5.0	0.024	SI3469DV-T1-E3CT-ND	1.33	.97	.90	3,000	418.50/M	SI3469DV-T1-E3
		20	5.3	0.020	SI3495DV-T1-E3CT-ND	1.40	1.01	.95	3,000	438.75/M	SI3495DV-T1-E3
		20	8.0	0.023	SI3493BDV-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SI3493BDV-T1-E3
		30	1.6	0.165	SI3851DV-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SI3851DV-T1-E3
		30	2.7	0.080	SI3455ADV-T1-E3CT-ND	.95	.69	.63	3,000	294.00/M	SI3455ADV-T1-E3
		30	3.7	0.044	SI3457BDV-T1-E3CT-ND	.77	.56	.51	3,000	238.00/M	SI3457BDV-T1-E3
		30	4.0	0.038	SI3481DV-T1-E3CT-ND	1.16	.84	.79	3,000	364.50/M	SI3481DV-T1-E3
		30	4.7	0.028	SI3483DV-T1-E3CT-ND	1.31	.95	.89	3,000	411.75/M	SI3483DV-T1-E3
		60	2.2	0.190	SI3459DV-T1-E3CT-ND	2.02	1.46	1.37	3,000	634.50/M	SI3459DV-T1-E3
		150	1.4	0.61	SI3437DV-T1-E3CT-ND	1.06	.77	.71	3,000	329.00/M	SI3437DV-T1-E3
		200	0.95	1.34	SI3475DV-T1-E3CT-ND	1.16	.84	.79	3,000	364.50/M	SI3475DV-T1-E3
19	8-TSSOP	12	4.0	0.032	SI6433BDQ-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SI6433BDQ-T1-E3
		12	6.8	0.010	SI6467BDQ-T1-E3CT-ND	2.10	1.45	1.38	3,000	650.00/M	SI6467BDQ-T1-E3
		12	8.2	0.0068	SI6423DQ-T1-E3CT-ND	2.39	1.66	1.57	3,000	741.00/M	SI6423DQ-T1-E3
		20	6.2	0.011	SI6463BDQ-T1-E3CT-ND	1.81	1.31	1.22	3,000	567.00/M	SI6463BDQ-T1-E3
		30	4.7	0.024	SI6435ADQ-T1-E3CT-ND	1.98	1.43	1.34	3,000	621.00/M	SI6435ADQ-T1-E3
		30	6.5	0.015	SI6415DQ-T1-E3CT-ND	2.52	1.74	1.65	3,000	780.00/M	SI6415DQ-T1-E3
		60	2.2	0.092	SI6459BDQ-T1-E3CT-ND	1.29	.93	.87	3,000	405.00/M	SI6459BDQ-T1-E3
21A	8-SOIC	8	13.7	0.0075	SI4465ADY-T1-E3CT-ND	2.65	1.83	1.74	2,500	819.00/M	SI4465ADY-T1-E3
		20	2.7	0.175	SI4845DY-T1-E3CT-ND	1.08	.78	.73	2,500	337.50/M	SI4845DY-T1-E3
		20	4.5	0.030	SI9433BDY-T1-E3CT-ND	1.63	1.18	1.11	2,500	513.00/M	SI9433BDY-T1-E3
		20	4.5	0.033	SI9434BDY-T1-E3CT-ND	1.46	1.06	.99	2,500	459.00/M	SI9434BDY-T1-E3
		20	5.6	0.014	SI9424BDY-T1-E3CT-ND	2.14	1.48	1.41	2,500	663.00/M	SI9424BDY-T1-E3
		20	6.2	0.042	SI4621DY-T1-E3CT-ND	.95	.69	.63	2,500	294.00/M	SI4621DY-T1-E3
		20	7.3	0.014	SI4403BDY-T1-E3CT-ND	1.94	1.40	1.31	2,500	607.50/M	SI4403BDY-T1-E3
		20	9.8	0.0085	SI4463BDY-T1-E3CT-ND	2.39	1.66	1.57	2,500	741.00/M	SI4463BDY-T1-E3
		20	10	0.007	SI4421DY-T1-E3CT-ND	3.36	2.32	2.20	2,500	1040.00/M	SI4421DY-T1-E3
		20	10	0.006	SI4423DY-T1-E3CT-ND	3.61	2.50	2.37	2,500	1118.00/M	SI4423DY-T1-E3
		30	4.1	0.033	SI9435BDY-T1-E3CT-ND	1.16	.84	.79	2,500	364.50/M	SI9435BDY-T1-E3
		30	4.6	0.059	SI4833ADY-T1-E3CT-ND	1.25	.90	.85	2,500	391.50/M	SI4833ADY-T1-E3
		30	5	0.036	SI4831DY-T1-E3CT-ND	2.31	1.60	1.52	2,500	715.00/M	SI4831DY-T1-E3
		30	5.7	0.023	SI4431BDY-T1-E3CT-ND	1.38	1.00	.93	2,500	432.00/M	SI4431BDY-T1-E3
		30	7	0.015	SI4435BDY-T1-E3CT-ND	1.46	1.06	.99	2,500	459.00/M	SI4435BDY-T1-E3
		30	7.4	0.014	SI4835BDY-T1-E3CT-ND	1.89	1.37	1.28	2,500	594.00/M	SI4835BDY-T1-E3
		30	8.1	0.012	SI4825DY-T1-E3CT-ND	3.02	2.09	1.98	2,500	936.00/M	SI4825DY-T1-E3
		30	8.8	0.010	SI4425BDY-T1-E3CT-ND	2.65	1.83	1.74	2,500	819.00/M	SI4425BDY-T1-E3
		30	9.7	0.0088	SI4427BDY-T1-E3CT-ND	2.48	1.72	1.63	2,500	767.00/M	SI4427BDY-T1-E3
		30	10	0.007	SI4483EDY-T1-E3CT-ND	2.81	1.95	1.85	2,500	871.00/M	SI4483EDY-T1-E3
		40	3.3	0.045	SI4447DY-T1-E3CT-ND	.95	.69	.63	2,500	294.00/M	SI4447DY-T1-E3
		40	8.7	0.011	SI4401BDY-T1-E3CT-ND	3.28	2.27	2.15	2,500	1014.00/M	SI4401BDY-T1-E3
		30	10.5	0.0063	SI4413ADY-T1-E3CT-ND	3.61	2.50	2.37	2,500	1118.00/M	SI4413ADY-T1-E3
21B	8-SOIC	20	12.5	0.006	SI7485DP-T1-E3CT-ND	3.94	2.78	2.63	3,000	1292.80/M	SI7485DP-T1-E3
		30	11	0.007	SI7491DP-T1-E3CT-ND	3.94	2.78	2.63	3,000	1292.80/M	SI7491DP-T1-E3
		30	13	0.0056	SI7459DP-T1-E3CT-ND	4.37	3.08	2.92	3,000	1433.60/M	SI7459DP-T1-E3
		30	14	0.0047	SI7483ADP-T1-E3CT-ND	4.68	3.30	3.12	3,000	1536.00/M	SI7483ADP-T1-E3
		40	11	0.0075	SI7463DP-T1-E3CT-ND	3.99	2.76	2.62	3,000	1235.00/M	SI7463DP-T1-E3
		60	3.2	0.051	SI7465DP-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI7465DP-T1-E3
		60	8.6	0.0115	SI7461DP-T1-E3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SI7461DP-T1-E3
		80	28	0.021	SI7469DP-T1-E3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SI7469DP-T1-E3

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Bulk

Multiple pinout configurations available, see Digi-Key website for data sheet.

Fig. 14 — SOT-23

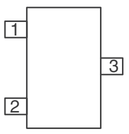

Fig. 15 — SOT-323

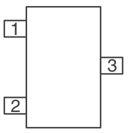

Fig. 16 — SOT-363

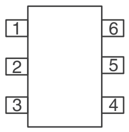

Fig. 17 — SOT-563

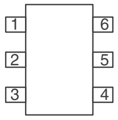

Fig. 18 — 6-TSOP

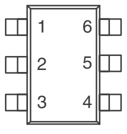

Fig. 19 — 8-TSSOP

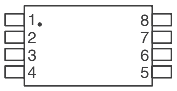

(Continued)

VISHAY Siliconix MOSFETs *(Cont.)*

Fig.	Package	V_{DSS} (V)	I_D (A)	$R_{DS}(on)$ (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel‡ Qty.	Pricing	Vishay Part No.
21B	8-SOIC	100	28	0.033	SI7489DP-T1-E3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SI7489DP-T1-E3
		150	3.0	0.073	SI7439DP-T1-E3CT-ND	5.58	3.94	3.72	3,000	1830.40/M	SI7439DP-T1-E3
		200	2.2	0.145	SI7431DP-T1-E3CT-ND	5.73	4.05	3.83	3,000	1881.60/M	SI7431DP-T1-E3
22	TO-92	60	0.27	3.1	BS250KL-TR1-E3CT-ND	.76	.50	.45	2,000	202.50/M	BS250KL-TR1-E3
		60	0.27	3.1	TP0610KL-TR1-E3CT-ND	.86	.62	.57	2,000	266.00/M	TP0610KL-TR1-E3
					Dual P-Channel						
1	1206-8	20	2.1	0.130	SI5903DC-T1-E3CT-ND	2.60	1.80	1.71	3,000	806.00/M	SI5903DC-T1-E3
		20	2.7	0.095	SI5933DC-T1-E3CT-ND	2.86	1.98	1.87	3,000	884.00/M	SI5933DC-T1-E3
		20	3	0.069	SI5935DC-T1-E3CT-ND	1.16	.84	.79	3,000	364.50/M	SI5935DC-T1-E3
2B	1212-8	20	4.2	0.040	SI7911DN-T1-E3CT-ND	1.63	1.18	1.11	3,000	513.00/M	SI7911DN-T1-E3
		20	5.0	0.029	SI7913DN-T1-E3CT-ND	2.23	1.54	1.46	3,000	689.00/M	SI7913DN-T1-E3
		30	4.3	0.038	SI7923DN-T1-E3CT-ND	2.14	1.48	1.41	3,000	663.00/M	SI7923DN-T1-E3
9B	8-PowerPAK	12	6	0.053	SI5943DU-T1-E3CT-ND	1.38	1.00	.93	3,000	432.00/M	SI5943DU-T1-E3
		20	6	0.048	SI5947DU-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI5947DU-T1-E3
10A	SC70-6	20	4.5	0.078	SIA911DJ-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SIA911DJ-T1-E3
12B	SC75-6	20	2.6	0.242	SIB911DK-T1-E3CT-ND	.95	.69	.63	3,000	294.00/M	SIB911DK-T1-E3
16	SOT-363	8	0.57	0.51	SI1905DL-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI1905DL-T1-E3
		12	1.00	0.300	SI1917EDH-T1-E3CT-ND	1.38	1.00	.93	3,000	432.00/M	SI1917EDH-T1-E3
		20	0.41	0.850	SI1903DL-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1903DL-T1-E3
		20	0.88	0.400	SI1913DH-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1913DH-T1-E3
17	SOT-563	20	.370	0.8	SI1023X-T1-E3CT-ND	.53	.36	.32	3,000	142.50/M	SI1023X-T1-E3
		60	.190	4	SI1025X-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1025X-T1-E3
18	6-TSOP	20	1.6	0.146	SI3981DV-T1-E3CT-ND	.77	.56	.51	3,000	238.00/M	SI3981DV-T1-E3
		20	1.8	0.115	SI3911DV-T1-E3CT-ND	.86	.62	.57	3,000	266.00/M	SI3911DV-T1-E3
		20	2.1	0.086	SI3983DV-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI3983DV-T1-E3
		20	2.7	0.092	SI3951DV-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI3951DV-T1-E3
		30	1.8	0.107	SI3993DV-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI3993DV-T1-E3
19	8-TSSOP	12	2.3	0.06	SI6943BDQ-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI6943BDQ-T1-E3
		12	4.0	0.024	SI6969BDQ-T1-E3CT-ND	2.10	1.45	1.38	3,000	650.00/M	SI6969BDQ-T1-E3
		12	4.9	0.016	SI6913DQ-T1-E3CT-ND	2.90	2.01	1.90	3,000	897.00/M	SI6913DQ-T1-E3
		20	3.4	0.036	SI6963BDQ-T1-E3CT-ND	2.18	1.51	1.43	3,000	676.00/M	SI6963BDQ-T1-E3
		20	4.1	0.026	SI6981DQ-T1-E3CT-ND	2.56	1.77	1.68	3,000	793.00/M	SI6981DQ-T1-E3
		20	4.6	0.019	SI6983DQ-T1-E3CT-ND	2.90	2.01	1.90	3,000	897.00/M	SI6983DQ-T1-E3
		30	3.6	0.024	SI6993DQ-T1-E3CT-ND	2.90	2.01	1.90	3,000	897.00/M	SI6993DQ-T1-E3
21A	8-SOIC	12	4.8	0.028	SI9934BDY-T1-E3CT-ND	1.72	1.24	1.16	2,500	540.00/M	SI9934BDY-T1-E3
		12	6.7	0.0145	SI4931DY-T1-E3CT-ND	2.81	1.95	1.85	2,500	871.00/M	SI4931DY-T1-E3
		12	7.4	0.0115	SI4933DY-T1-E3CT-ND	3.44	2.38	2.26	2,500	1066.00/M	SI4933DY-T1-E3
		20	3.6	0.048	SI9933BDY-T1-E3CT-ND	1.55	1.12	1.05	2,500	486.00/M	SI9933BDY-T1-E3
		20	4.9	0.025	SI4963BDY-T1-E3CT-ND	2.31	1.60	1.52	2,500	715.00/M	SI4963BDY-T1-E3
		20	6.3	0.016	SI4943BDY-T1-E3CT-ND	2.81	1.95	1.85	2,500	871.00/M	SI4943BDY-T1-E3
		20	7.1	0.0125	SI4913DY-T1-E3CT-ND	3.78	2.61	2.48	2,500	1170.00/M	SI4913DY-T1-E3
		30	3.0	0.062	SI4947ADY-T1-E3CT-ND	1.38	1.00	.93	2,500	432.00/M	SI4947ADY-T1-E3
		30	3.7	0.045	SI4953ADY-T1-E3CT-ND	1.76	1.28	1.19	2,500	553.50/M	SI4953ADY-T1-E3
		30	5.3	0.020	SI4925BDY-T1-E3CT-ND	2.31	1.60	1.52	2,500	715.00/M	SI4925BDY-T1-E3
		30	5.8	0.018	SI4973DY-T1-E3CT-ND	3.74	2.59	2.45	2,500	1157.00/M	SI4973DY-T1-E3
		30	10	0.017	SI4941EDY-T1-E3CT-ND	2.73	1.89	1.79	2,500	845.00/M	SI4941EDY-T1-E3
		60	2.4	0.100	SI4948BEY-T1-E3CT-ND	1.63	1.18	1.11	2,500	513.00/M	SI4948BEY-T1-E3
21C	8-SOIC	20	7.7	0.014	SI7983DP-T1-E3CT-ND	3.91	2.70	2.56	3,000	1209.00/M	SI7983DP-T1-E3
		30	7.0	0.016	SI7945DP-T1-E3CT-ND	3.61	2.50	2.37	3,000	1118.00/M	SI7945DP-T1-E3
		60	3.2	0.051	SI7949DP-T1-E3CT-ND	2.23	1.54	1.46	3,000	689.00/M	SI7949DP-T1-E3
					N/P-Channel						
1	1206-8	20	3.1/2.1	0.065/0.130	SI5513DC-T1-E3CT-ND	1.38	1.00	.93	3,000	432.00/M	SI5513DC-T1-E3
		20	4.4/3	0.032/0.069	SI5515DC-T1-E3CT-ND	1.33	.97	.90	3,000	418.50/M	SI5515DC-T1-E3
		20	6.1/4.8	0.043/0.074	SI5509DC-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI5509DC-T1-E3
		30	2.9/2.1	0.072/0.137	SI5504DC-T1-E3CT-ND	2.60	1.80	1.71	3,000	806.00/M	SI5504DC-T1-E3
		30	4/3.6	0.045/0.125	SI5511DC-T1-E3CT-ND	1.08	.78	.73	3,000	337.50/M	SI5511DC-T1-E3
2A	1212-8	30	5.4/4.5	0.028/0.041	SI7501DN-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI7501DN-T1-E3
9B	8-PowerPAK	20	6	0.032/0.060	SI5517DU-T1-E3CT-ND	1.46	1.06	.99	3,000	459.00/M	SI5517DU-T1-E3
16	SOT-363	20	0.29/0.41	1.55/0.850	SI1551DL-T1-E3CT-ND	.67	.45	.40	3,000	180.00/M	SI1551DL-T1-E3
		20	0.66/0.41	0.320/0.850	SI1553DL-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1553DL-T1-E3
		20/8	0.66/0.57	0.320/0.510	SI1555DL-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1555DL-T1-E3
		20	1.13/0.88	0.220/0.400	SI1563DH-T1-E3CT-ND	.70	.47	.42	3,000	187.50/M	SI1563DH-T1-E3
		20	1.13/0.88	0.220/0.400	SI1563EDH-T1-E3CT-ND	.76	.50	.45	3,000	202.50/M	SI1563EDH-T1-E3
		30	0.54/0.42	0.410/0.800	SI1539DL-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1539DL-T1-E3
17	SOT-563	20	.180/.145	5/8	SI1035X-T1-E3CT-ND	.59	.39	.35	3,000	157.50/M	SI1035X-T1-E3
		20	.485/.370	0.41/0.80	SI1016X-T1-E3CT-ND	.59	.39	.35	3,000	157.50/M	SI1016X-T1-E3
		60	.305/.190	1.40/4	SI1029X-T1-E3CT-ND	.64	.43	.38	3,000	172.50/M	SI1029X-T1-E3
18	6-TSOP	20	1.4/0.96	0.240/0.510	SI3850ADV-T1-E3CT-ND	.68	.49	.45	3,000	210.00/M	SI3850ADV-T1-E3
		20	2.0/1.5	0.100/0.160	SI3585DV-T1-E3CT-ND	.86	.62	.57	3,000	266.00/M	SI3585DV-T1-E3
		20	2.5/0.57	0.064/0.115	SI3588DV-T1-E3CT-ND	1.76	1.28	1.19	3,000	553.50/M	SI3588DV-T1-E3
		20	2.9/2.1	0.047/0.086	SI3586DV-T1-E3CT-ND	1.25	.90	.85	3,000	391.50/M	SI3586DV-T1-E3
		30	2.5/1.7	0.062/0.135	SI3590DV-T1-E3CT-ND	1.04	.75	.69	3,000	322.00/M	SI3590DV-T1-E3
		30	2.5/1.8	0.085/0.165	SI3552DV-T1-E3CT-ND	.95	.69	.63	3,000	294.00/M	SI3552DV-T1-E3
19	8-TSSOP	20	4.5/3.5	0.023/0.040	SI6562DQ-T1-E3CT-ND	2.27	1.57	1.49	3,000	702.00/M	SI6562DQ-T1-E3
		30	3.7/3.8	0.025/0.034	SI6544BDQ-T1-E3CT-ND	1.81	1.31	1.22	3,000	567.00/M	SI6544BDQ-T1-E3
21A	8-SOIC	20	6.6/3.8	0.016/0.048	SI4500BDY-T1-E3CT-ND	1.46	1.06	.99	2,500	459.00/M	SI4500BDY-T1-E3
		20	7.2/4.6	0.0115/0.022	SI4511DY-T1-E3CT-ND	2.06	1.49	1.40	2,500	648.00/M	SI4511DY-T1-E3
		30/8	6.3/4.1	0.015/0.030	SI4501ADY-T1-E3CT-ND	1.72	1.24	1.16	2,500	540.00/M	SI4501ADY-T1-E3
		40	5/4.4	0.048/0.068	SI4567DY-T1-E3CT-ND	1.29	.93	.87	2,500	405.00/M	SI4567DY-T1-E3
		40	6.6/5.6	0.032/0.045	SI4565ADY-T1-E3CT-ND	1.63	1.18	1.11	2,500	513.00/M	SI4565ADY-T1-E3
		40	7.6/7.9	0.022/0.024	SI4569DY-T1-E3CT-ND	2.14	1.48	1.41	2,500	663.00/M	SI4569DY-T1-E3
		40	8	0.013/0.020	SI4563DY-T1-E3CT-ND	3.02	2.09	1.98	2,500	936.00/M	SI4563DY-T1-E3
		60	5.3/3.9	0.046/0.1	SI4559ADY-T1-E3CT-ND	2.06	1.49	1.40	2,500	648.00/M	SI4559ADY-T1-E3
21C	8-SOIC	12	7.6/5.7	0.014/0.026	SI7540DP-T1-E3CT-ND	3.28	2.27	2.15	3,000	1014.00/M	SI7540DP-T1-E3
		60	3.0/3.2	0.060/0.051	SI7530DP-T1-E3CT-ND	2.39	1.66	1.57	3,000	741.00/M	SI7530DP-T1-E3

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Bulk

Multiple pinout configurations available, see Digi-Key website for data sheet.

Fig. 20 — 14-SOIC

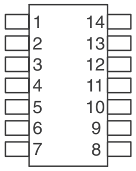

Fig. 21 — 8-SOIC

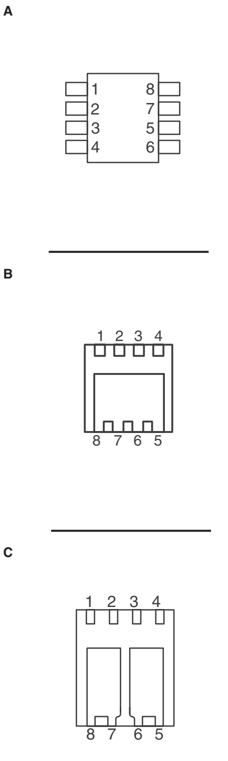

Fig. 22 — TO-92

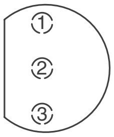

Application Specific Integrated Circuits

Package	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
SOT-563	1.8-8V Load Switch with Level Shift	SI1040X-T1-E3CT-ND	.95	.69	.63	SI1040X-T1-E3TR-ND	3,000	294.00/M	SI1040X-T1-E3
SC70-6	1.8-8V Load Switch with Level-Shift	SI1865DL-T1-E3CT-ND	.50	.34	.30	SI1865DL-T1-E3TR-ND	3,000	135.00/M	SI1865DL-T1-E3
SC70-6	1.8-20V Load Switch with Level-Shift	SI1869DH-T1-E3CT-ND	.68	.49	.45	SI1869DH-T1-E3TR-ND	3,000	210.00/M	SI1869DH-T1-E3
6-TSOP	4.5-20V Load Switch with Level-Shift	SI3861BDV-T1-E3CT-ND	.86	.62	.57	SI3861BDV-T1-E3TR-ND	3,000	266.00/M	SI3861BDV-T1-E3
6-TSOP	1.8-8V Load Switch with Level-Shift	SI3865BDV-T1-E3CT-ND	1.16	.84	.79	SI3865BDV-T1-E3TR-ND	3,000	364.50/M	SI3865BDV-T1-E3
16-SOIC	6-30V Battery Disconnect Switch	SI4720CY-T1-E3CT-ND	8.11	5.72	5.41	SI4720CY-T1-E3TR-ND	2,500	2662.40/M	SI4720CY-T1-E3
8-TSSOP	2.5V N-Channel Battery Switch	SI6924AEDQ-T1-E3CT-ND	2.14	1.48	1.41	SI6924AEDQ-T1-E3TR-ND	3,000	663.00/M	SI6924AEDQ-T1-E3

NEW! ALPHA & OMEGA SEMICONDUCTOR MOSFETs

Multiple pinout configurations available, see Digi-Key website for data sheet.

Alpha and Omega Semiconductor (AOS) has a portfolio of approximately 400 products making AOS a well known, high volume, global supplier of Power MOSFETs. This diverse product range includes both N and P channel technologies in popular industry standard packages from the small form factor SC-89, to the robust TO-220. In addition AOS boasts some unique advanced low R_{DS}(on) surface mount packages for demanding high current density designs. These packages are designed to complement AOS' latest highly efficient MOSFET processes such as SRFET™ and SDMOS™. Through an in depth understanding of customers' applications these products are optimized to support the Power Management requirements of the Computing, Consumer, Communications and Industrial Market Segments.

Dimensions in mm.

Fig. 1 — SOT-23

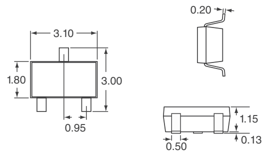

Fig. 2 — 8-SOIC

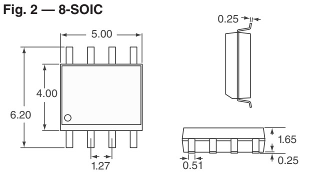

Fig. 3 — 6-TSOP

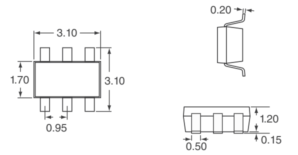

Fig. 4 — SC70-3

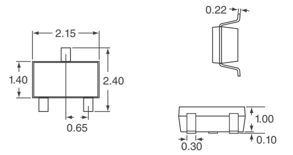

Fig. 5 — SC70-6

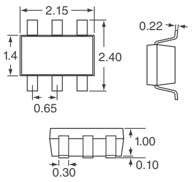

Fig. 6 — TO-252 (D-PAK)

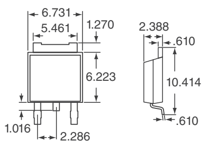

Fig. 7 — Ultra SO-8

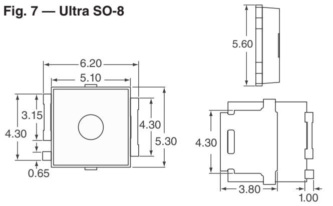

Fig. 8 — 8-DFN

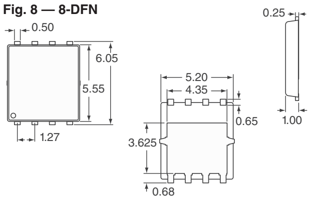

Fig. 9 — TO-220

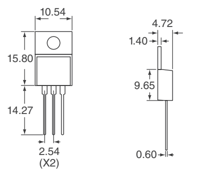

Fig. 10 — 8-TSSOP

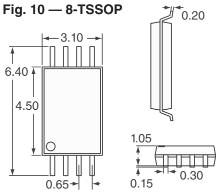

Fig. 11 — 6-DFN

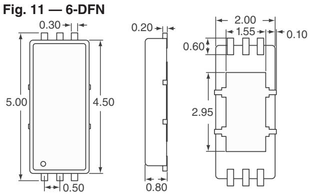

Fig. 12 — TO-252-4

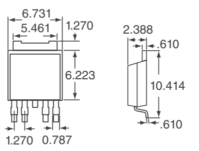

Fig. 13 — TO-252-5

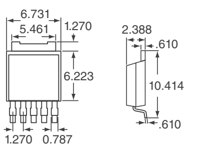

Fig. 14 — 8-PDIP

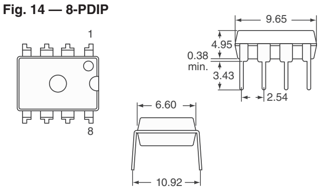

Fig.	Package	V_{DS} (V)	I_D (A)	R_{DS}(on) Max. (mΩ)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Alpha and Omega Semiconductor Part No.
							N-Channel					
1	SOT-23	30	5.7	26.5	785-1000-1-ND	.47	.31	.26	785-1000-2-ND	3,000	113.90/M	AO3400A
		30	4	55	785-1002-1-ND	.52	.31	.25	785-1002-2-ND	3,000	99.00/M	AO3402
		30	5.8	28	785-1004-1-ND	.46	.30	.25	785-1004-2-ND	3,000	110.50/M	AO3404A
		30	3.6	65	785-1005-1-ND	.51	.30	.24	785-1005-2-ND	3,000	97.20/M	AO3406
		20	4.2	50	785-1009-1-ND	.51	.30	.24	785-1009-2-ND	3,000	97.20/M	AO3414
		20	6.5	22	785-1011-1-ND	.53	.35	.29	785-1011-2-ND	3,000	129.20/M	AO3416
		30	3.8	60	785-1012-1-ND	.48	.29	.23	785-1012-2-ND	3,000	91.80/M	AO3418
		20	6	24	785-1014-1-ND	.46	.31	.26	785-1014-2-ND	3,000	112.20/M	AO3420
		55	2.1	160	785-1015-1-ND	.53	.31	.25	785-1015-2-ND	3,000	100.80/M	AO3422
		30	2	80	785-1017-1-ND	.55	.31	.24	785-1017-2-ND	3,000	88.00/M	AO3424
		30	4.2	52	785-1018-1-ND	.54	.32	.26	785-1018-2-ND	3,000	102.60/M	AO3434
2	8-SOIC	30	8.5	24	785-1020-1-ND	.46	.27	.22	785-1020-2-ND	3,000	86.40/M	AO4404B
		30	11.5	14	785-1021-1-ND	.69	.53	.46	785-1021-2-ND	3,000	214.20/M	AO4406
		30	18	5.5	785-1028-1-ND	1.13	.87	.76	785-1028-2-ND	3,000	353.70/M	AO4430
		60	8.2	22	785-1032-1-ND	.93	.71	.63	785-1032-2-ND	3,000	289.80/M	AO4438
		60	5	55	785-1033-1-ND	.68	.46	.40	785-1033-2-ND	3,000	181.50/M	AO4440
		30	20	4.6	785-1035-1-ND	1.19	.92	.81	785-1035-2-ND	3,000	372.60/M	AO4456
		30	9.4	23	785-1037-1-ND	.62	.41	.34	785-1037-2-ND	3,000	151.30/M	AO4466
		30	11.6	14	785-1038-1-ND	.58	.40	.34	785-1038-2-ND	3,000	154.50/M	AO4468
		30	13.4	11.5	785-1039-1-ND	.78	.59	.52	785-1039-2-ND	3,000	242.20/M	AO4474
		40	14	11.5	785-1040-1-ND	.97	.74	.65	785-1040-2-ND	3,000	302.40/M	AO4480
		30	16.5	6.8	785-1048-1-ND	1.02	.78	.69	785-1048-2-ND	3,000	317.80/M	AO4706
		30	15	8.7	785-1049-1-ND	.75	.57	.51	785-1049-2-ND	3,000	233.80/M	AO4708
		30	12.7	11.8	785-1050-1-ND	.69	.53	.47	785-1050-2-ND	3,000	215.60/M	AO4710
		30	11.2	14.5	785-1051-1-ND	.79	.54	.47	785-1051-2-ND	3,000	211.50/M	AO4712
		30	20	4.7	785-1052-1-ND	1.23	.95	.84	785-1052-2-ND	3,000	387.45/M	AO4714
3	6-TSOP	30	6.9	28	785-1067-1-ND	.55	.37	.31	785-1067-2-ND	3,000	134.30/M	AO6400
		30	7	27	785-1069-1-ND	.57	.38	.32	785-1069-2-ND	3,000	139.40/M	AO6402A
		20	8.6	17	785-1071-1-ND	.53	.36	.32	785-1071-2-ND	3,000	141.00/M	AO6404
		20	8.8	18	785-1073-1-ND	.58	.40	.34	785-1073-2-ND	3,000	154.50/M	AO6408
		55	2.4	160	785-1075-1-ND	.46	.30	.25	785-1075-2-ND	3,000	110.50/M	AO6414
		30	3.6	65	785-1080-1-ND	.58	.40	.34	785-1080-2-ND	3,000	154.50/M	AO6704
4	SC70-3	30	1.7	85	785-1084-1-ND	.55	.37	.31	785-1084-2-ND	3,000	134.30/M	AO7400
		20	1	225	785-1086-1-ND	.46	.30	.25	785-1086-2-ND	3,000	110.50/M	AO7404
5	SC70-6	30	2.1	90	785-1090-1-ND	.60	.40	.33	785-1090-2-ND	3,000	146.20/M	AO7412
6	TO-252 (D-PAK)	30	12	37	785-1104-1-ND	.58	.39	.32	785-1104-2-ND	2,500	141.10/M	AOD4102
		60	38	20	785-1107-1-ND	1.04	.79	.69	785-1107-2-ND	2,500	322.00/M	AOD442
		60	12	60	785-1108-1-ND	.76	.52	.45	785-1108-2-ND	2,500	204.00/M	AOD444
		25	55	8.5	785-1109-1-ND	.84	.57	.50	785-1109-2-ND	2,500	225.00/M	AOD452
		25	50	6	785-1110-1-ND	.86	.66	.58	785-1110-2-ND	2,500	268.80/M	AOD456A
		25	50	6	785-1111-1-ND	.86	.66	.58	785-1111-2-ND	2,500	268.80/M	AOD472
		20	25	21	785-1112-1-ND	.62	.41	.34	785-1112-2-ND	2,500	149.60/M	AOD476
		30	25	23	785-1113-1-ND	.62	.41	.34	785-1113-2-ND	2,500	149.60/M	AOD480
		30	25	15	785-1114-1-ND	.59	.40	.35	785-1114-2-ND	2,500	157.50/M	AOD484
		40	50	9.8	785-1115-1-ND	.93	.71	.62	785-1115-2-ND	2,500	288.40/M	AOD486A
		30	62	9.5	785-1116-1-ND	.80	.61	.54	785-1116-2-ND	2,500	249.20/M	AOD496
7	Ultra SO-8	30	85	3.9	785-1119-1-ND	1.30	1.00	.88	785-1119-2-ND	3,000	407.70/M	AOL1412
		30	85	6.5	785-1120-1-ND	1.23	.95	.84	785-1120-2-ND	3,000	387.45/M	AOL1414
		30	85	6	785-1121-1-ND	1.17	.90	.79	785-1121-2-ND	3,000	365.85/M	AOL1418
		30	85	3.7	785-1122-1-ND	1.32	1.02	.90	785-1122-2-ND	3,000	414.45/M	AOL1422
		30	70	5.4	785-1123-1-ND	1.07	.81	.72	785-1123-2-ND	3,000	333.20/M	AOL1424
		30	46	10.5	785-1124-1-ND	1.03	.78	.69	785-1124-2-ND	3,000	319.20/M	AOL1426
		30	45	9.5	785-1125-1-ND	1.04	.79	.70	785-1125-2-ND	3,000	324.80/M	AOL1428

(Continued)

NEW! ALPHA & OMEGA SEMICONDUCTOR MOSFETs *(Cont.)*

Fig.	Package	V_{DS} (V)	I_D (A)	R_{DS}(on) Max. (mΩ)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Alpha and Omega Semiconductor Part No.
						1	25	100		Qty.	Pricing	
7	Ultra SO-8	25	44	8.5	785-1126-1-ND	.81	.62	.55	785-1126-2-ND	3,000	253.40/M	AOL1432
		25	75	3.2	785-1127-1-ND	1.45	1.12	.98	785-1127-2-ND	3,000	454.95/M	AOL1440
		30	85	4.2	785-1128-1-ND	1.54	1.19	1.05	785-1128-2-ND	3,000	484.65/M	AOL1700
		30	70	5.8	785-1129-1-ND	1.17	.90	.79	785-1129-2-ND	3,000	367.20/M	AOL1702
8	8-DFN	30	20	12	785-1135-1-ND	1.08	.83	.73	785-1135-2-ND	3,000	338.85/M	AON6410
		30	10	12.5	785-1136-1-ND	.99	.75	.66	785-1136-2-ND	3,000	308.00/M	AON7400
		30	11	15	785-1137-1-ND	.77	.53	.46	785-1137-2-ND	3,000	205.50/M	AON7406
		30	12	8.5	785-1138-1-ND	1.12	.87	.76	785-1138-2-ND	3,000	352.35/M	AON7700
		30	13.5	10	785-1139-1-ND	1.05	.80	.70	785-1139-2-ND	3,000	326.20/M	AON7702
9	TO-220	105	40	28	785-1144-1-ND	1.41	1.08	.95	785-1144-2-ND	1,000	490.50	AOT404
		75	80	11.5	785-1145-1-ND	1.73	1.33	1.17	785-1145-2-ND	1,000	603.00	AOT430
		60	85	7.5	785-1146-1-ND	1.90	1.46	1.28	785-1146-2-ND	1,000	663.00	AOT460
		60	70	18	785-1147-1-ND	1.24	.95	.84	785-1147-2-ND	1,000	432.00	AOT462
P-Channel												
1	SOT-23	30	4.3	44	785-1001-1-ND	.43	.29	.24	785-1001-2-ND	3,000	105.40/M	AO3401A
		30	2.6	130	785-1003-1-ND	.51	.30	.24	785-1003-2-ND	3,000	97.20/M	AO3403
		30	4.3	48	785-1006-1-ND	.50	.34	.28	785-1006-2-ND	3,000	122.40/M	AO3407A
		30	2.6	130	785-1007-1-ND	.51	.30	.24	785-1007-2-ND	3,000	97.20/M	AO3409
		20	3	97	785-1008-1-ND	.50	.30	.24	785-1008-2-ND	3,000	95.40/M	AO3413
		20	4	43	785-1010-1-ND	.51	.34	.28	785-1010-2-ND	3,000	124.10/M	AO3415
		20	3.5	75	785-1013-1-ND	.50	.30	.24	785-1013-2-ND	3,000	95.40/M	AO3419
		20	2	92	785-1016-1-ND	.44	.26	.21	785-1016-2-ND	3,000	82.80/M	AO3423
2	8-SOIC	30	6.1	46	785-1019-1-ND	.73	.50	.44	785-1019-2-ND	3,000	196.50/M	AO4403
		30	12	11	785-1022-1-ND	.87	.66	.59	785-1022-2-ND	3,000	271.60/M	AO4407A
		30	15	7.5	785-1023-1-ND	1.25	.96	.85	785-1023-2-ND	3,000	391.50/M	AO4409
		30	9.7	20	785-1024-1-ND	.83	.57	.50	785-1024-2-ND	3,000	223.50/M	AO4419
		60	6.2	40	785-1025-1-ND	.80	.61	.54	785-1025-2-ND	3,000	249.20/M	AO4421
		38	14	10	785-1026-1-ND	1.25	.97	.85	785-1026-2-ND	3,000	392.85/M	AO4425
		30	12.5	12	785-1027-1-ND	.87	.66	.58	785-1027-2-ND	3,000	270.20/M	AO4427
		30	11	14	785-1029-1-ND	.72	.55	.48	785-1029-2-ND	3,000	222.60/M	AO4433
		30	10	18	785-1030-1-ND	.77	.53	.46	785-1030-2-ND	3,000	205.50/M	AO4435
		12	11	16	785-1031-1-ND	.88	.67	.59	785-1031-2-ND	3,000	274.40/M	AO4437
		30	15	7.5	785-1034-1-ND	1.37	1.05	.93	785-1034-2-ND	3,000	429.30/M	AO4447
		30	6.5	46	785-1036-1-ND	.66	.45	.39	785-1036-2-ND	3,000	175.50/M	AO4459
		30	5	49	785-1047-1-ND	.76	.58	.51	785-1047-2-ND	3,000	235.20/M	AO4701
3	6-TSOP	30	5	44	785-1068-1-ND	.53	.35	.29	785-1068-2-ND	3,000	127.50/M	AO6401A
		30	6	35	785-1070-1-ND	.55	.38	.33	785-1070-2-ND	3,000	147.00/M	AO6403
		30	5	52	785-1072-1-ND	.55	.37	.31	785-1072-2-ND	3,000	134.30/M	AO6405
		20	5	45	785-1074-1-ND	.55	.37	.31	785-1074-2-ND	3,000	134.30/M	AO6409
		30	2.3	135	785-1079-1-ND	.55	.38	.33	785-1079-2-ND	3,000	147.00/M	AO6701
4	SC70-3	30	1.2	150	785-1085-1-ND	.55	.37	.31	785-1085-2-ND	3,000	134.30/M	AO7401
		20	1.2	135	785-1088-1-ND	.53	.35	.29	785-1088-2-ND	3,000	129.20/M	AO7407
		20	1.4	113	785-1091-1-ND	.52	.35	.29	785-1091-2-ND	3,000	125.80/M	AO7413
5	SC70-6	30	1.6	150	785-1087-1-ND	.52	.35	.29	785-1087-2-ND	3,000	125.80/M	AO7405
		20	1.8	120	785-1089-1-ND	.58	.39	.32	785-1089-2-ND	3,000	141.10/M	AO7411
		20	2	100	785-1092-1-ND	.60	.40	.33	785-1092-2-ND	3,000	146.20/M	AO7415
6	TO-252 (D-PAK)	30	85	6	785-1101-1-ND	1.54	1.18	1.04	785-1101-2-ND	2,500	481.96/M	AOD403
		60	12	115	785-1102-1-ND	.75	.57	.51	785-1102-2-ND	2,500	233.80/M	AOD407
		60	26	40	785-1103-1-ND	.99	.76	.67	785-1103-2-ND	2,500	309.40/M	AOD409
		40	12	45	785-1105-1-ND	.75	.57	.50	785-1105-2-ND	2,500	232.40/M	AOD413
		30	25	34	785-1106-1-ND	.60	.42	.36	785-1106-2-ND	2,500	162.00/M	AOD417
8	8-DFN	20	3.4	90	785-1133-1-ND	.80	.61	.54	785-1133-2-ND	3,000	249.20/M	AON4703
Dual N-Channel												
2	8-SOIC	30	6.9	27	785-1053-1-ND	.68	.51	.45	785-1053-2-ND	3,000	210.00/M	AO4800B
		20	9.4	14	785-1056-1-ND	.95	.72	.63	785-1056-2-ND	3,000	294.00/M	AO4806
		30	8.5	16	785-1059-1-ND	.77	.59	.52	785-1059-2-ND	3,000	240.80/M	AO4818B
		30	8.5	16	785-1060-1-ND	.88	.67	.59	785-1060-2-ND	3,000	274.40/M	AO4822A
		60	6.3	25	785-1061-1-ND	1.33	1.02	.90	785-1061-2-ND	3,000	417.15/M	AO4826
		60	4.5	56	785-1062-1-ND	.85	.64	.57	785-1062-2-ND	3,000	263.20/M	AO4828
		40	6	31	785-1063-1-ND	.84	.57	.50	785-1063-2-ND	3,000	225.00/M	AO4840
		30	7.5	22	785-1064-1-ND	.73	.50	.43	785-1064-2-ND	3,000	195.00/M	AO4842
		30	8.6	16	785-1066-1-ND	1.00	.76	.67	785-1066-2-ND	3,000	310.80/M	AO4946
		30	9	15.8	785-1065-1-ND	.99	.75	.66	785-1065-2-ND	3,000	308.00/M	AO4932
		20	7.6	23	785-1100-1-ND	.69	.47	.41	785-1100-2-ND	3,000	184.50/M	AO9926B
3	6-TSOP	30	3.4	60	785-1081-1-ND	.60	.42	.36	785-1081-2-ND	3,000	162.00/M	AO6800
		30	3.1	75	785-1082-1-ND	.60	.42	.36	785-1082-2-ND	3,000	162.00/M	AO6802
		20	5	32	785-1083-1-ND	.59	.41	.35	785-1083-2-ND	3,000	159.00/M	AO6804
5	SC70-6	20	0.9	300	785-1094-1-ND	.58	.40	.34	785-1094-2-ND	3,000	154.50/M	AO7800
8	8-DFN	20	6.8	26	785-1130-1-ND	.73	.56	.49	785-1130-2-ND	3,000	228.20/M	AON3806
		20	7	24	785-1131-1-ND	.74	.51	.44	785-1131-2-ND	3,000	198.00/M	AON3810
		20	4	22	785-1132-1-ND	.79	.54	.47	785-1132-2-ND	3,000	211.50/M	AON3816
10	8-TSSOP	20	7	20	785-1096-1-ND	.76	.58	.51	785-1096-2-ND	3,000	236.60/M	AO8810
		20	7	21	785-1097-1-ND	.68	.52	.46	785-1097-2-ND	3,000	212.80/M	AO8820
		20	7	21	785-1098-1-ND	.68	.52	.46	785-1098-2-ND	3,000	212.80/M	AO8822
		20	6	27	785-1099-1-ND	.82	.56	.49	785-1099-2-ND	3,000	220.50/M	AO8830
11	6-DFN	30	7.2	20	785-1134-1-ND	.92	.70	.62	785-1134-2-ND	3,000	287.00/M	AON5802A
Dual P-Channel												
2	8-SOIC	30	5	46	785-1054-1-ND	.83	.57	.50	785-1054-2-ND	3,000	223.50/M	AO4803A
		30	8	19	785-1055-1-ND	1.17	.90	.79	785-1055-2-ND	3,000	365.85/M	AO4805
		30	6	35	785-1057-1-ND	.84	.64	.57	785-1057-2-ND	3,000	261.80/M	AO4807
		30	7.1	25	785-1058-1-ND	1.07	.81	.72	785-1058-2-ND	3,000	333.20/M	AO4813
10	8-TSSOP	12	7	18	785-1095-1-ND	1.17	.90	.79	785-1095-2-ND	3,000	365.85/M	AO8803
N/P-Channel												
2	8-SOIC	60	4.5/3.2	56	785-1041-1-ND	.85	.64	.57	785-1041-2-ND	3,000	263.20/M	AO4612
		40	6/5	31	785-1042-1-ND	.76	.58	.51	785-1042-2-ND	3,000	236.60/M	AO4614A
		30	8.1/7.1	20	785-1043-1-ND	1.14	.88	.77	785-1043-2-ND	3,000	356.40/M	AO4616
		30	7.4/5.2	24	785-1044-1-ND	.78	.54	.47	785-1044-2-ND	3,000	210.00/M	AO4619
		30	7.2/5.3	24	785-1045-1-ND	.71	.54	.48	785-1045-2-ND	3,000	221.20/M	AO4620
		20	7.3/5	23	785-1046-1-ND	.73	.50	.43	785-1046-2-ND	3,000	195.00/M	AO4622
3	6-TSOP	30	3.4/2.3	60	785-1076-1-ND	.61	.41	.34	785-1076-2-ND	3,000	147.90/M	AO6601
		30	3.1/2.7	75	785-1077-1-ND	.53	.36	.32	785-1077-2-ND	3,000	141.00/M	AO6602
		20	3.4/2.5	60	785-1078-1-ND	.53	.37	.32	785-1078-2-ND	3,000	142.50/M	AO6604
5	SC70-6	20	0.9/0.6	300	785-1093-1-ND	.58	.40	.34	785-1093-2-ND	3,000	154.50/M	AO7600
12	TO-252-4	40	8/8	33	785-1118-1-ND	1.04	.79	.70	785-1118-2-ND	2,500	324.80/M	AOD606
13	TO-252-5	40	8/8	33	785-1117-1-ND	1.03	.78	.69	785-1117-2-ND	2,500	320.60/M	AOD604
14	8-PDIP	30	7.5/6.6	28	785-1140-1-ND	.87	.66	.58	785-1140-2-ND	5,000	258.02/M	AOP605
		60	4.7/3.4	56	785-1141-1-ND	.95	.72	.63	785-1141-2-ND	5,000	279.30/M	AOP607
		60	4.7/3.5	60	785-1142-1-ND	.94	.71	.63	785-1142-2-ND	5,000	277.97/M	AOP609
		30	7.7/6.2	24	785-1143-1-ND	.97	.75	.65	785-1143-2-ND	5,000	287.28/M	AOP610

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

ECS INC. INTERNATIONAL Surface Mount Oscillators

5.0 x 7.0 x 1.7mm Packaging

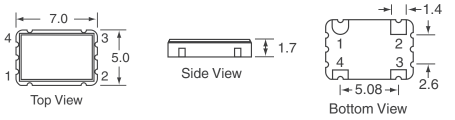

Pin Connection	
1	Tri-State
2	GND
3	Output
4	VDD

Note: Frequency stability is inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel Pricing† 1,000	ECS Part No.
ECS-3951C — 5.0V, 0°C ~ 70°C, ±100ppm						
1.843200	XC653CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-018-TR
3.686400	XC654CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-036-TR
12.000000	XC655CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-120-TR
16.000000	XC656CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-160-TR
20.000000	XC657CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-200-TR
33.000000	XC658CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-330-TR
40.000000	XC659CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-400-TR
50.000000	XC660CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-500-TR
65.000000	XC661CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-650-TR
66.666000	XC662CT-ND	5.25	4.73	3.94	2625.00	ECS-3951C-666-TR
ECS-3951M-B — 5.0V, -10°C ~ 70°C, ±50ppm						
1.843200	XC780CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-018-B-TR
3.686400	XC781CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-036-B-TR
12.000000	XC782CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-120-B-TR
16.000000	XC783CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-160-B-TR
20.000000	XC784CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-200-B-TR
33.000000	XC785CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-330-B-TR
40.000000	XC786CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-400-B-TR
50.000000	XC787CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-500-B-TR
65.000000	XC788CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-650-B-TR
66.666000	XC789CT-ND	5.25	4.73	3.94	2625.00	ECS-3951M-666-B-TR
ECS-3951M-BN Industrial Temperature — 5.0V, -40°C ~ 85°C, ±50ppm						
1.843200	XC291CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-018-BN-TR
3.579545	XC292CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-035-BN-TR
3.686400	XC293CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-036-BN-TR
4.000000	XC294CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-040-BN-TR
8.000000	XC295CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-080-BN-TR
10.000000	XC296CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-100-BN-TR
12.000000	XC297CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-120-BN-TR
16.000000	XC298CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-160-BN-TR
20.000000	XC299CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-200-BN-TR
24.000000	XC300CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-240-BN-TR
25.000000	XC321CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-250-BN-TR
32.000000	XC322CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-320-BN-TR
40.000000	XC323CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-400-BN-TR
50.000000	XC324CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-500-BN-TR
66.666000	XC325CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-666-BN-TR
80.000000	XC326CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-800-BN-TR
100.000000	XC327CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-1000-BN-TR
ECS-3951M-AU Automotive Temperature — 5.0V, -55°C ~ 125°C, ±100ppm						
1.843200	XC1453CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-018-AU-TR
4.000000	XC1454CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-040-AU-TR
8.000000	XC1455CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-080-AU-TR
10.000000	XC1456CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-100-AU-TR
16.000000	XC1457CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-160-AU-TR
20.000000	XC1458CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-200-AU-TR
40.000000	XC1459CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-400-AU-TR
80.000000	XC1460CT-ND	5.55	5.00	4.17	2775.00	ECS-3951M-800-AU-TR
100.000000	XC1461CT-ND	6.54	5.89	4.91	3270.00	ECS-3951M-1000-AU-TR
ECS-3953C — 3.3V, 0°C ~ 70°C, ±100ppm						
20.000000	XC721CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-200-TR
24.000000	XC722CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-240-TR
25.000000	XC723CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-250-TR
32.000000	XC724CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-320-TR
40.000000	XC725CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-400-TR
50.000000	XC726CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-500-TR
66.666000	XC727CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-666-TR
80.000000	XC728CT-ND	5.25	4.73	3.94	2625.00	ECS-3953C-800-TR
ECS-3953M-B — 3.3V, -10°C ~ 70°C, ±50ppm						
1.843200	XC284CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-018-B-TR
3.686400	XC285CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-036-B-TR
4.000000	XC286CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-040-B-TR
8.000000	XC287CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-080-B-TR
10.000000	XC288CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-100-B-TR
12.000000	XC289CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-120-B-TR
16.000000	XC290CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-160-B-TR
20.000000	XC790CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-200-B-TR
24.000000	XC791CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-240-B-TR
25.000000	XC792CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-250-B-TR
32.000000	XC793CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-320-B-TR
40.000000	XC794CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-400-B-TR
48.000000	XC1016CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-480-B-TR
50.000000	XC795CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-500-B-TR
66.666000	XC796CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-666-B-TR
80.000000	XC797CT-ND	5.25	4.73	3.94	2625.00	ECS-3953M-800-B-TR
ECS-3953M-BN Industrial Temperature — 3.3V, -40°C ~ 85°C, ±50ppm						
1.843200	XC329CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-018-BN-TR
3.579545	XC330CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-035-BN-TR
3.686400	XC331CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-036-BN-TR
4.000000	XC332CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-040-BN-TR
8.000000	XC333CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-080-BN-TR
10.000000	XC334CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-100-BN-TR
12.000000	XC335CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-120-BN-TR
16.000000	XC336CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-160-BN-TR
20.000000	XC337CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-200-BN-TR
24.000000	XC338CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-240-BN-TR
25.000000	XC339CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-250-BN-TR
32.000000	XC340CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-320-BN-TR
40.000000	XC341CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-400-BN-TR
50.000000	XC342CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-500-BN-TR
66.666000	XC343CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-666-BN-TR
80.000000	XC344CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-800-BN-TR
100.000000	XC345CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-1000-BN-TR
125.000000	XC346CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-1250-BN-TR
ECS-3953M-AU Automotive Temperature — 3.3V, -55°C ~ 125°C, ±100ppm						
1.843200	XC1442CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-018-AU-TR
4.000000	XC1443CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-040-AU-TR
8.000000	XC1444CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-080-AU-TR
10.000000	XC1445CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-100-AU-TR
16.000000	XC1446CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-160-AU-TR
20.000000	XC1447CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-200-AU-TR
24.000000	XC1448CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-240-AU-TR
40.000000	XC1449CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-400-AU-TR
80.000000	XC1450CT-ND	5.55	5.00	4.17	2775.00	ECS-3953M-800-AU-TR
100.000000	XC1451CT-ND	6.54	5.89	4.91	3270.00	ECS-3953M-1000-AU-TR
125.000000	XC1452CT-ND	7.68	6.92	5.76	3840.00	ECS-3953M-1250-AU-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

Subminiature Clock Oscillators

Fig. 1 — ECS-2532HS

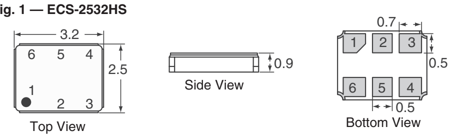

Pin Connection	
1	Tri-State
2	No Connect
3	Ground
4	Output
5	No Connect
6	VDD

Fig. 2

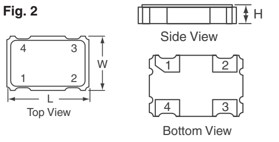

Pin Connection	
1	Tri-State
2	Ground
3	Output
4	VDD

Dimensions	L	W	H
ECS-3963	5.0	3.2	1.0
ECS-3525	5.0	3.2	1.3
ECS-3518	5.0	3.2	1.3
ECS-2033	2.5	2.0	0.9
ECS-2018	2.5	2.0	0.9

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	ECS Part No.
ECS-2532HS High Stability — 3.3V, -30°C ~ 85°C, ±10ppm								
1	20.000000	XC1476CT-ND	13.80	12.42	10.35	500	3450.00	ECS-2532HS-200-3-G
	22.118400	XC1477CT-ND	13.80	12.42	10.35	500	3450.00	ECS-2532HS-221-3-G
	24.000000	XC1478CT-ND	13.80	12.42	10.35	500	3450.00	ECS-2532HS-240-3-G
	26.000000	XC1479CT-ND	13.80	12.42	10.35	500	3450.00	ECS-2532HS-260-3-G
	27.000000	XC1480CT-ND	13.80	12.42	10.35	500	3450.00	ECS-2532HS-270-3-G
	32.000000	XC1481CT-ND	13.80	12.42	10.35	500	3450.00	ECS-2532HS-320-3-G
	40.000000	XC1482CT-ND	16.20	14.58	12.15	500	4050.00	ECS-2532HS-400-3-G
	44.000000	XC1483CT-ND	16.20	14.58	12.15	500	4050.00	ECS-2532HS-440-3-G
ECS-3963-BN Industrial Temperature — 3.0V, -40°C ~ 85°C, ±50ppm								
2	4.00000	XC1028CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-040-BN-TR
	8.00000	XC1029CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-080-BN-TR
	10.00000	XC1030CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-100-BN-TR
	12.00000	XC1031CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-120-BN-TR
	14.31818	XC1032CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-143-BN-TR
	20.00000	XC1033CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-200-BN-TR
	24.00000	XC1034CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-240-BN-TR
	25.00000	XC1035CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-250-BN-TR
	32.00000	XC1036CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-320-BN-TR
	33.33300	XC1037CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-333-BN-TR
	40.00000	XC1038CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-400-BN-TR
	48.00000	XC1039CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-480-BN-TR
	50.00000	XC1040CT-ND	2.97	2.68	2.23	1,000	1485.00	ECS-3963-500-BN-TR
	60.00000	XC1041CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3963-600-BN-TR
	66.66600	XC1043CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3963-666-BN-TR
	80.00000	XC1044CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3963-800-BN-TR
	100.00000	XC1045CT-ND	5.97	5.38	4.48	1,000	2985.00	ECS-3963-1000-BN-TR
	125.00000	XC1046CT-ND	8.07	7.27	6.06	1,000	4035.00	ECS-3963-1250-BN-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

ECS INC. INTERNATIONAL Surface Mount Oscillators

Subminiature Clock Oscillators *(Cont.)*

Digi-Reel® RoHS

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		ECS Part No.
			1	10	100	Qty.	Pricing	
ECS-3525-B — 2.5V, 0°C ~ 70°C, ±50ppm								
2	4.00000	XC1047CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-040-B-TR
	8.00000	XC1048CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-080-B-TR
	10.00000	XC1049CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-100-B-TR
	12.00000	XC1050CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-120-B-TR
	14.31818	XC1051CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-143-B-TR
	20.00000	XC1052CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-200-B-TR
	24.00000	XC1053CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-240-B-TR
	25.00000	XC1054CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-250-B-TR
	32.00000	XC1055CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-320-B-TR
	33.33300	XC1056CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-333-B-TR
	40.00000	XC1057CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-400-B-TR
	48.00000	XC1058CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-480-B-TR
	50.00000	XC1059CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-500-B-TR
	60.00000	XC1060CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-600-B-TR
	64.00000	XC1061CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-640-B-TR
	66.66600	XC1062CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-666-B-TR
	80.00000	XC1063CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3525-800-B-TR
	100.00000	XC1064CT-ND	5.97	5.38	4.48	1,000	2985.00	ECS-3525-1000-B-TR
	125.00000	XC1065CT-ND	8.07	7.27	6.06	1,000	4035.00	ECS-3525-1250-B-TR
ECS-3518-B — 1.8V, 0°C ~ 70°C, ±50ppm								
2	4.00000	XC1066CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-040-B-TR
	8.00000	XC1067CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-080-B-TR
	10.00000	XC1068CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-100-B-TR
	12.00000	XC1069CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-120-B-TR
	14.31818	XC1070CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-143-B-TR
	20.00000	XC1071CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-200-B-TR
	24.00000	XC1072CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-240-B-TR
	25.00000	XC1073CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-250-B-TR
	32.00000	XC1074CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-320-B-TR
	33.33300	XC1075CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-333-B-TR
	40.00000	XC1076CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-400-B-TR
	48.00000	XC1077CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-480-B-TR
	50.00000	XC1078CT-ND	3.27	2.95	2.46	1,000	1635.00	ECS-3518-500-B-TR
	60.00000	XC1079CT-ND	3.57	3.22	2.68	1,000	1785.00	ECS-3518-600-B-TR
	64.00000	XC1080CT-ND	3.57	3.22	2.68	1,000	1785.00	ECS-3518-640-B-TR
	66.66600	XC1081CT-ND	3.57	3.22	2.68	1,000	1785.00	ECS-3518-666-B-TR
	80.00000	XC1082CT-ND	3.57	3.22	2.68	1,000	1785.00	ECS-3518-800-B-TR
	100.00000	XC1083CT-ND	6.57	5.92	4.93	1,000	3285.00	ECS-3518-1000-B-TR
	125.00000	XC1084CT-ND	7.47	6.73	5.61	1,000	3735.00	ECS-3518-1250-B-TR
ECS-2033-BN Industrial Temperature — 3.3V, -40°C ~ 85°C, ±50ppm								
2	3.579545	XC1419CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-035-BN
	3.686400	XC1420CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-036-BN
	4.000000	XC1421CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-040-BN
	6.000000	XC1422CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-060-BN
	7.372800	XC1423CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-073-BN
	8.000000	XC1424CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-080-BN
	10.000000	XC1425CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-100-BN
	12.000000	XC1426CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-120-BN
	13.000000	XC1427CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-130-BN
	14.318180	XC1428CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-143-BN
	14.745600	XC1429CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-147.4-BN
	16.000000	XC1430CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-160-BN
	20.000000	XC1431CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-200-BN
	24.000000	XC1432CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-240-BN
	25.000000	XC1433CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-250-BN
	27.000000	XC1434CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-270-BN
	30.000000	XC1435CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-300-BN
	32.000000	XC1436CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-320-BN
	40.000000	XC1437CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-400-BN
	48.000000	XC1438CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-480-BN
	50.000000	XC1439CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2033-500-BN
ECS-2018-BN Industrial Temperature — 1.8V, -40°C ~ 85°C, ±50ppm								
2	3.579545	XC1396CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-035-BN
	3.686400	XC1397CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-036-BN
	4.000000	XC1398CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-040-BN
	6.000000	XC1399CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-060-BN
	7.372800	XC1400CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-073-BN
	8.000000	XC1401CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-080-BN
	10.000000	XC1402CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-100-BN
	12.000000	XC1403CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-120-BN
	13.000000	XC1404CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-130-BN
	14.318180	XC1405CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-143-BN
	14.745600	XC1406CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-147.4-BN
	16.000000	XC1407CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-160-BN
	20.000000	XC1408CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-200-BN
	24.000000	XC1409CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-240-BN
	25.000000	XC1410CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-250-BN
	27.000000	XC1411CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-270-BN
	30.000000	XC1412CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-300-BN
	32.000000	XC1413CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-320-BN
	40.000000	XC1414CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-400-BN
	48.000000	XC1415CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-480-BN
	50.000000	XC1416CT-ND	5.94	5.35	4.46	1,000	2970.00	ECS-2018-500-BN

† For Tape and Reel part number, change CT-ND to TR-ND.

LVDS, LVPECL, Spread Spectrum and Thermoplastic

Digi-Reel®

Fig. 1

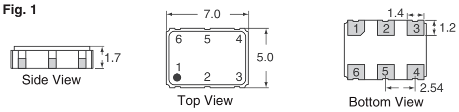

Pin Connection	
1	Tri-State
2	NC
3	Ground
4	Output
5	Comp. Output
6	VDD

Fig. 2

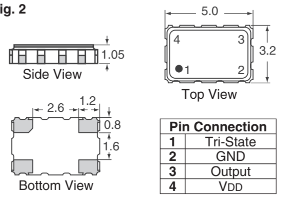

Pin Connection	
1	Tri-State
2	GND
3	Output
4	VDD

Fig. 3

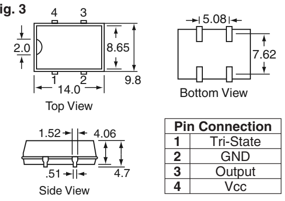

Pin Connection	
1	Tri-State
2	GND
3	Output
4	Vcc

Note: Frequency stability inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock and vibration.

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		ECS Part No.
			1	10	100	Qty.	Pricing	
ECS-LVDS25-A — 2.5V, 0°C ~ 70°C, ±100ppm — RoHS Compliant								
1	100.000000	XC1466CT-ND	21.72	19.55	16.29	500	5430.00	ECS-LVDS25-1000-A
	106.250000	XC1467CT-ND	21.72	19.55	16.29	500	5430.00	ECS-LVDS25-1062.5A
	125.000000	XC1468CT-ND	22.08	19.88	16.56	500	5520.00	ECS-LVDS25-1250-A
	156.250000	XC1469CT-ND	27.63	24.87	20.73	500	6907.50	ECS-LVDS25-1562.5-A
	200.000000	XC1470CT-ND	27.63	24.87	20.73	500	6907.50	ECS-LVDS25-2000-A
ECS-PEC25-B-N — 2.5V, -40°C ~ 85°C, ±50ppm — RoHS Compliant								
1	100.000000	XC1471CT-ND	21.18	19.07	15.89	500	5295.00	ECS-PEC25-1000-B-N
	106.250000	XC1472CT-ND	21.18	19.07	15.89	500	5295.00	ECS-PEC25-1062.5-B-N
	125.000000	XC1473CT-ND	21.72	19.55	16.29	500	5430.00	ECS-PEC25-1250-B-N
	155.520000	XC1474CT-ND	27.27	24.55	20.46	500	6817.50	ECS-PEC25-1555.2-B-N
	156.250000	XC1475CT-ND	27.27	24.55	20.46	500	6817.50	ECS-PEC25-1562.5-B-N
ECS3250SS Spread Spectrum — 3.3V, -10°C ~ 70°C, ±50ppm — RoHS Compliant								
2	27.000000	XC1484CT-ND	15.12	13.61	11.34	500	3780.00	ECS-3250SS-270-3B
	40.000000	XC1485CT-ND	16.20	14.58	12.15	500	4050.00	ECS-3250SS-400-3B
	54.000000	XC1486CT-ND	16.20	14.58	12.15	500	4050.00	ECS-3250SS-540-3B
ECS-8FM — 5.0V, -10°C ~ 70°C, ±100ppm								
3	1.000000	XC703CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-010-TR
	1.843200	XC704CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-018-TR
	2.000000	XC705CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-020-TR
	2.457600	XC706CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-024-TR
	3.579545	XC707CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-035-TR
	3.686400	XC708CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-036-TR
	4.000000	XC635CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-040-TR
	4.915200	XC636CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-049-TR
	6.000000	XC637CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-060-TR
	7.372800	XC709CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-073-TR
	8.000000	XC638CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-080-TR
	9.830400	XC710CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-098.3-TR
	10.000000	XC639CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-100-TR
	11.059200	XC711CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-110.5-TR
	12.000000	XC640CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-120-TR
	12.288000	XC712CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-122.8-TR
	14.318180	XC641CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-143-TR
	16.000000	XC642CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-160-TR
	18.432000	XC643CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-184-TR
	19.660800	XC713CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-196.6-TR
	20.000000	XC644CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-200-TR
	24.000000	XC645CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-240-TR
	25.000000	XC714CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-250-TR
	25.175000	XC646CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-251.7-TR
	28.322000	XC647CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-283.2-TR
	32.000000	XC648CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-320-TR
	32.514000	XC649CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-325.1-TR
	40.000000	XC650CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-400-TR
	48.000000	XC651CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-480-TR
	50.000000	XC652CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-500-TR
	66.666000	XC715CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FM-666-TR
ECS-8FMX — 5.0V, -10°C ~ 70°C, ±100ppm — RoHS Compliant								
3	1.000000	XC1342CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-010-TR
	1.843200	XC1343CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-018-TR
	2.000000	XC1344CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-020-TR
	2.457600	XC1345CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-024-TR
	3.579545	XC1346CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-035-TR
	3.686400	XC1347CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-036-TR
	4.000000	XC1328CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-040-TR
	4.915200	XC1329CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-049-TR
	6.000000	XC1330CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-060-TR
	7.372800	XC1348CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-073-TR
	8.000000	XC1331CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-080-TR
	9.830400	XC1349CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-098.3-TR
	10.000000	XC1332CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-100-TR
	11.059200	XC1350CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-110.5-TR
	12.288000	XC1351CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-122.8-TR
	14.318180	XC1333CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-143-TR
	16.000000	XC1334CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-160-TR
	19.660800	XC1352CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-196.6-TR
	20.000000	XC1335CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-200-TR
	24.000000	XC1336CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-240-TR
	25.000000	XC1353CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-250-TR
	25.175000	XC1337CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-251.7-TR
	32.000000	XC1338CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-320-TR
	40.000000	XC1339CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-400-TR
	48.000000	XC1340CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-480-TR
	50.000000	XC1341CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-500-TR
	66.666000	XC1354CT-ND	2.97	2.48	1.98	1,000	1503.00	ECS-8FMX-666-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

ECS INC. INTERNATIONAL

VC-TCXO and VCXO Oscillators

Digi-Reel®

Fig.	Frequency (MHz)	Supply Voltage	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		ECS Part No.
				1	10	100	Qty.	Pricing	
VC-TCXOs, -40°C ~ 85°C, ±2.5ppm									
1	10.00	3.0	X493CT-ND	15.13	12.38	11.00	500	4950.00	VC-TXO-39SM-100-TR
	13.00	3.0	X490CT-ND	15.13	12.38	11.00	500	4950.00	VC-TXO-39SM-130-TR
	16.80	3.0	X491CT-ND	15.13	12.38	11.00	500	4950.00	VC-TXO-39SM-168-TR
	19.44	3.0	X492CT-ND	15.13	12.38	11.00	500	4950.00	VC-TXO-39SM-194.4-TR
	10.00	3.0	X1126CT-ND◆	15.13	12.38	11.00	500	4950.00	VC-TXO-39SMX-100-TR
	12.80	3.0	X1127CT-ND◆	15.13	12.38	11.00	500	4950.00	VC-TXO-39SMX-128-TR
	13.00	3.0	X1128CT-ND◆	15.13	12.38	11.00	500	4950.00	VC-TXO-39SMX-130-TR
	16.80	3.0	X1129CT-ND◆	15.13	12.38	11.00	500	4950.00	VC-TXO-39SMX-168-TR
	19.44	3.0	X1130CT-ND◆	15.13	12.38	11.00	500	4950.00	VC-TXO-39SMX-194.4-TR
2	12.00	3.0	XC1018CT-ND◆	17.85	16.07	13.39	500	5355.00	VC-TXO-35SM-120-B-TR
	12.80	3.0	XC348CT-ND◆	14.85	13.37	11.14	1,000	7425.00	VC-TXO-35SM-128-B-TR
	13.00	3.0	XC1019CT-ND◆	17.85	16.07	13.39	1,000	8925.00	VC-TXO-35SM-130-B-TR
	14.40	3.0	XC1020CT-ND◆	17.85	16.07	13.39	500	5355.00	VC-TXO-35SM-144-B-TR
	16.80	3.0	XC349CT-ND◆	14.85	13.37	11.14	1,000	7425.00	VC-TXO-35SM-168-B-TR
	19.20	3.0	XC1021CT-ND◆	17.85	16.07	13.39	500	5355.00	VC-TXO-35SM-192-B-TR
	19.44	3.0	XC350CT-ND◆	14.85	13.37	11.14	1,000	7425.00	VC-TXO-35SM-194-B-TR
3	10.00	3.0	XC1618CT-ND◆	9.57	8.62	7.18	1,000	4785.00	VC-TXO-23SM-100-B
	19.20	3.0	XC1462CT-ND◆	6.57	5.92	4.93	1,000	3285.00	VC-TXO-23SM-192-B
	19.68	3.0	XC1463CT-ND◆	6.57	5.92	4.93	1,000	3285.00	VC-TXO-23SM-196.8-B
	20.00	3.0	XC1464CT-ND◆	6.57	5.92	4.93	1,000	3285.00	VC-TXO-23SM-200-B
	26.00	3.0	XC1465CT-ND◆	6.57	5.92	4.93	1,000	3285.00	VC-TXO-23SM-260-B
VCXOs, -40°C ~ 85°C, ±50ppm — RoHS Compliant									
4	19.44	3.3	XC1110CT-ND	3.87	3.49	2.91	1,000	1935.00	ECS-VXO-73-19.440-TR
	27.00	3.3	XC1112CT-ND	3.87	3.49	2.91	1,000	1935.00	ECS-VXO-73-27.00-TR
	32.77	3.3	XC1113CT-ND	3.87	3.49	2.91	1,000	1935.00	ECS-VXO-73-32.768-TR
	35.33	3.3	XC1114CT-ND	3.87	3.49	2.91	1,000	1935.00	ECS-VXO-73-35.328-TR
	40.00	3.3	XC1115CT-ND	4.77	4.30	3.58	1,000	2385.00	ECS-VXO-73-40.00-TR
	44.74	3.3	XC1116CT-ND	5.67	5.11	4.26	1,000	2835.00	ECS-VXO-73-44.736-TR
5	27.00	2.8	XC1487CT-ND	27.63	24.87	20.73	500	6907.50	ECS-2532VXO-270B-2.8
	54.00	2.8	XC1488CT-ND	27.63	24.87	20.73	500	6907.50	ECS-2532VXO-540B-2.8

◆ ***RoHS Compliant*** † For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

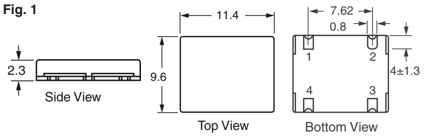

Pin Connection	
1	Vcontrol
2	GND
3	Output
4	Vcc

Fig. 2

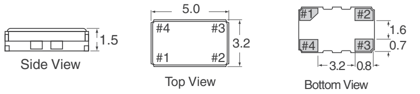

Pin Connection	
1	Vcontrol
2	GND
3	Output
4	Vcc

Fig. 3

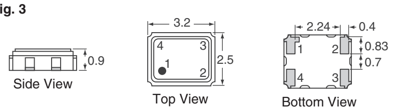

Pin Connection	
1	Vcontrol
2	GND
3	Output
4	VDC

Fig. 4

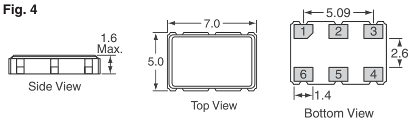

Pin Connection	
1	V Control
2	Tri-State
3	Ground
4	Output
5	NC
6	Vcc

Fig. 5

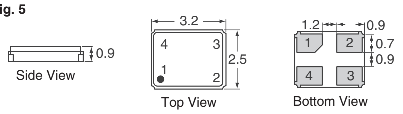

Pin Connection	
1	Vcontrol
2	GND
3	Output
4	VDD

Thru-Hole Oscillators

Fig. 1

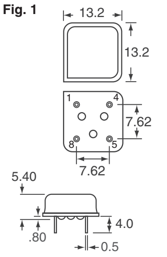

A

Pin Connection	
1	Tri-State
4	Case Ground
5	Output
8	5VDC

B

Pin Connection	
1	NC
4	Ground
5	Output
8	5VDC

Fig. 2

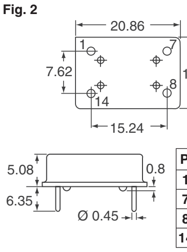

Pin Connection	
1	NC
7	Case Ground
8	Output
14	5VDC

Fig. 3

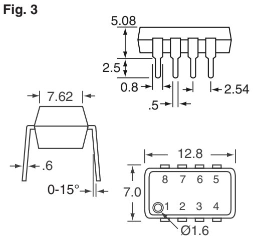

Pin Connection	
1	Output
2	Dividing Ratio
3	Standby
4	GND
5	A (Programming)
6	B (Programming)
7	C (Programming)
8	VDD (5V)

SETTING OF DIVIDING OUTPUT

Input Select				Output	
C	B	A	ST	F (Original Frequency)	D (Divided Waveform)
X	X	X	L	L	L
L	L	L	H	fo clock	fo 1/2 clock
L	L	H	H	fo clock	fo 1/2^2clock
L	H	L	H	fo clock	fo 1/2^3clock
L	H	H	H	fo clock	fo 1/2^4clock
H	L	L	H	fo clock	fo 1/2^5clock
H	L	H	H	fo clock	fo 1/2^6clock
H	H	L	H	fo clock	fo 1/2^7clock
H	H	H	H	fo clock	fo 1/2^8clock

Fig.	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
ECS-2200B Half Size Oscillators, 5.0V, 0°C ~ 70°C, ±50ppm							
1A	4.00000	XC259-ND	2.63	2.37	1.89	1.68	ECS-2200B-040
	4.91520	XC260-ND	2.63	2.37	1.89	1.68	ECS-2200B-049
	6.00000	XC261-ND	2.63	2.37	1.89	1.68	ECS-2200B-060
	6.14400	XC262-ND	2.63	2.37	1.89	1.68	ECS-2200B-061
	7.37280	XC263-ND	2.63	2.37	1.89	1.68	ECS-2200B-073
	8.00000	XC264-ND	2.63	2.37	1.89	1.68	ECS-2200B-080
	9.21600	XC265-ND	2.63	2.37	1.89	1.68	ECS-2200B-092.1
	9.83040	XC266-ND	2.63	2.37	1.89	1.68	ECS-2200B-098
	10.00000	XC267-ND	2.63	2.37	1.89	1.68	ECS-2200B-100
	11.05920	XC268-ND	2.63	2.37	1.89	1.68	ECS-2200B-110.5
	12.00000	XC269-ND	2.63	2.37	1.89	1.68	ECS-2200B-120
	14.31818	XC270-ND	2.63	2.37	1.89	1.68	ECS-2200B-143
	16.00000	XC271-ND	2.63	2.37	1.89	1.68	ECS-2200B-160
	18.43200	XC272-ND	2.63	2.37	1.89	1.68	ECS-2200B-184
	19.66080	XC273-ND	2.63	2.37	1.89	1.68	ECS-2200B-196
	20.00000	XC274-ND	2.63	2.37	1.89	1.68	ECS-2200B-200
	24.00000	XC275-ND	2.63	2.37	1.89	1.68	ECS-2200B-240
	25.00000	XC276-ND	2.63	2.37	1.89	1.68	ECS-2200B-250
	28.32200	XC277-ND	2.63	2.37	1.89	1.68	ECS-2200B-283
	32.00000	XC278-ND	2.63	2.37	1.89	1.68	ECS-2200B-320
	40.00000	XC279-ND	2.63	2.37	1.89	1.68	ECS-2200B-400
	48.00000	XC280-ND	2.63	2.37	1.89	1.68	ECS-2200B-480
	50.00000	XC281-ND	2.63	2.37	1.89	1.68	ECS-2200B-500
	66.66600	XC282-ND	2.63	2.37	1.89	1.68	ECS-2200B-666
	80.00000	XC283-ND	2.63	2.37	1.89	1.68	ECS-2200B-800
ECS-2200BX Half Size Oscillators, 5.0V, 0°C ~ 70°C, ±50ppm — RoHS Compliant							
1A	4.00000	XC1178-ND	2.63	2.37	1.89	1.68	ECS-2200BX-040
	4.91520	XC1179-ND	2.63	2.37	1.89	1.68	ECS-2200BX-049
	6.00000	XC1180-ND	2.63	2.37	1.89	1.68	ECS-2200BX-060
	7.37280	XC1181-ND	2.63	2.37	1.89	1.68	ECS-2200BX-073
	8.00000	XC1182-ND	2.63	2.37	1.89	1.68	ECS-2200BX-080
	9.83040	XC1183-ND	2.63	2.37	1.89	1.68	ECS-2200BX-098
	10.00000	XC1184-ND	2.63	2.37	1.89	1.68	ECS-2200BX-100
	11.05920	XC1185-ND	2.63	2.37	1.89	1.68	ECS-2200BX-110.5
	16.00000	XC1186-ND	2.63	2.37	1.89	1.68	ECS-2200BX-160
	19.66080	XC1187-ND	2.63	2.37	1.89	1.68	ECS-2200BX-196

Fig.	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
1A	20.00000	XC1188-ND	2.63	2.37	1.89	1.68	ECS-2200BX-200
	24.00000	XC1189-ND	2.63	2.37	1.89	1.68	ECS-2200BX-240
	32.00000	XC1190-ND	2.63	2.37	1.89	1.68	ECS-2200BX-320
	40.00000	XC1191-ND	2.63	2.37	1.89	1.68	ECS-2200BX-400
	48.00000	XC1192-ND	2.63	2.37	1.89	1.68	ECS-2200BX-480
	50.00000	XC1193-ND	2.63	2.37	1.89	1.68	ECS-2200BX-500
	80.00000	XC1194-ND	2.63	2.37	1.89	1.68	ECS-2200BX-800
ECS-2100A Half Size Oscillators, 5.0V, 0°C ~ 70°C, ±100ppm							
1B	1.000000	XC229-ND	2.13	1.92	1.53	1.36	ECS-2100A-010
	1.228800	XC230-ND	2.13	1.92	1.53	1.36	ECS-2100A-012.2
	1.843200	XC231-ND	2.13	1.92	1.53	1.36	ECS-2100A-018
	2.000000	XC232-ND	2.13	1.92	1.53	1.36	ECS-2100A-020
	2.457600	XC233-ND	2.13	1.92	1.53	1.36	ECS-2100A-024
	3.579545	XC235-ND	2.13	1.92	1.53	1.36	ECS-2100A-035
	3.686400	XC234-ND	2.13	1.92	1.53	1.36	ECS-2100A-036
	4.000000	X202-ND	2.13	1.92	1.53	1.36	ECS-2100A-040
	4.915200	XC236-ND	2.13	1.92	1.53	1.36	ECS-2100A-049
	5.000000	XC237-ND	2.13	1.92	1.53	1.36	ECS-2100A-050
	5.068800	XC238-ND	2.13	1.92	1.53	1.36	ECS-2100A-051
	6.000000	XC239-ND	2.13	1.92	1.53	1.36	ECS-2100A-060
	6.144000	XC240-ND	2.13	1.92	1.53	1.36	ECS-2100A-061
	7.372800	X208-ND	2.13	1.92	1.53	1.36	ECS-2100A-073.2
	8.000000	X209-ND	2.13	1.92	1.53	1.36	ECS-2100A-080
	9.216000	XC241-ND	2.13	1.92	1.53	1.36	ECS-2100A-092.1
	9.830400	XC242-ND	2.13	1.92	1.53	1.36	ECS-2100A-098.3
	10.000000	XC243-ND	2.13	1.92	1.53	1.36	ECS-2100A-100
	11.059200	XC244-ND	2.13	1.92	1.53	1.36	ECS-2100A-110.5
	12.000000	XC245-ND	2.13	1.92	1.53	1.36	ECS-2100A-120
	14.318180	XC246-ND	2.13	1.92	1.53	1.36	ECS-2100A-143
	14.745600	XC247-ND	2.13	1.92	1.53	1.36	ECS-2100A-147.4
	16.000000	X216-ND	2.13	1.92	1.53	1.36	ECS-2100A-160
	16.257000	XC248-ND	2.13	1.92	1.53	1.36	ECS-2100A-162.5
	18.000000	XC249-ND	2.13	1.92	1.53	1.36	ECS-2100A-180

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ECS INC. INTERNATIONAL Thru-Hole Oscillators *(Cont.)*

Fig.	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
1B	18.432000	XC250-ND	2.13	1.92	1.53	1.36	ECS-2100A-184
	19.660800	XC251-ND	2.13	1.92	1.53	1.36	ECS-2100A-196.6
	20.000000	X220-ND	2.13	1.92	1.53	1.36	ECS-2100A-200
	24.000000	X221-ND	2.13	1.92	1.53	1.36	ECS-2100A-240
	25.000000	XC252-ND	2.13	1.92	1.53	1.36	ECS-2100A-250
	25.175000	X222-ND	2.13	1.92	1.53	1.36	ECS-2100A-251.7
	28.322000	X223-ND	2.13	1.92	1.53	1.36	ECS-2100A-283.2
	30.000000	XC253-ND	2.13	1.92	1.53	1.36	ECS-2100A-300
	32.000000	XC254-ND	2.13	1.92	1.53	1.36	ECS-2100A-320
	32.514000	X224-ND	2.13	1.92	1.53	1.36	ECS-2100A-325.1
	35.000000	XC255-ND	2.13	1.92	1.53	1.36	ECS-2100A-350
	40.000000	X225-ND	2.13	1.92	1.53	1.36	ECS-2100A-400
	48.000000	XC256-ND	2.13	1.92	1.53	1.36	ECS-2100A-480
	50.000000	X226-ND	2.13	1.92	1.53	1.36	ECS-2100A-500
	64.000000	XC257-ND	2.13	1.92	1.53	1.36	ECS-2100A-640
	66.666000	XC258-ND	2.13	1.92	1.53	1.36	ECS-2100A-666
ECS-2100AX Half Size Oscillators, 5.0V, 0°C ~ 70°C, ±100ppm — RoHS Compliant							
1B	3.686400	XC1158-ND	2.13	1.92	1.53	1.36	ECS-2100AX-036
	4.000000	X960-ND	2.13	1.92	1.53	1.36	ECS-2100AX-040
	4.915200	XC1159-ND	2.13	1.92	1.53	1.36	ECS-2100AX-049
	7.372800	X961-ND	2.13	1.92	1.53	1.36	ECS-2100AX-073.7
	8.000000	X962-ND	2.13	1.92	1.53	1.36	ECS-2100AX-080
	9.216000	XC1160-ND	2.13	1.92	1.53	1.36	ECS-2100AX-092.1
	9.830400	XC1161-ND	2.13	1.92	1.53	1.36	ECS-2100AX-098.3
	10.000000	XC1162-ND	2.13	1.92	1.53	1.36	ECS-2100AX-100
	11.059200	XC1163-ND	2.13	1.92	1.53	1.36	ECS-2100AX-110.5
	12.000000	XC1164-ND	2.13	1.92	1.53	1.36	ECS-2100AX-120
	14.745600	XC1165-ND	2.13	1.92	1.53	1.36	ECS-2100AX-147.4
	16.000000	X963-ND	2.13	1.92	1.53	1.36	ECS-2100AX-160
	18.432000	XC1166-ND	2.13	1.92	1.53	1.36	ECS-2100AX-184
	19.660800	XC1167-ND	2.13	1.92	1.53	1.36	ECS-2100AX-196.6
	20.000000	X964-ND	2.13	1.92	1.53	1.36	ECS-2100AX-200
	28.322000	X965-ND	2.13	1.92	1.53	1.36	ECS-2100AX-283.2
	30.000000	XC1168-ND	2.13	1.92	1.53	1.36	ECS-2100AX-300
	40.000000	X966-ND	2.13	1.92	1.53	1.36	ECS-2100AX-400
	48.000000	XC1169-ND	2.13	1.92	1.53	1.36	ECS-2100AX-480
	50.000000	X967-ND	2.13	1.92	1.53	1.36	ECS-2100AX-500
ECS-100A Full Size Oscillators, 5.0V, 0°C ~ 70°C, ±100ppm							
2	1.000000	X101-ND	1.88	1.69	1.35	1.20	ECS-100A-010
	1.228800	X102-ND	1.88	1.69	1.35	1.20	ECS-100A-012.2
	1.843200	X103-ND	1.88	1.69	1.35	1.20	ECS-100A-018
	2.000000	X104-ND	1.88	1.69	1.35	1.20	ECS-100A-020
	2.457600	X105-ND	1.88	1.69	1.35	1.20	ECS-100A-024
	3.579545	XC227-ND	1.88	1.69	1.35	1.20	ECS-100A-035
	3.686400	X106-ND	1.88	1.69	1.35	1.20	ECS-100A-036
	4.000000	X107-ND	1.88	1.69	1.35	1.20	ECS-100A-040
	4.915200	X108-ND	1.88	1.69	1.35	1.20	ECS-100A-049
	5.000000	X109-ND	1.88	1.69	1.35	1.20	ECS-100A-050
	5.068800	X110-ND	1.88	1.69	1.35	1.20	ECS-100A-051
	6.000000	X111-ND	1.88	1.69	1.35	1.20	ECS-100A-060
	6.144000	X122-ND	1.88	1.69	1.35	1.20	ECS-100A-061
	7.372800	X123-ND	1.88	1.69	1.35	1.20	ECS-100A-073
	8.000000	X112-ND	1.88	1.69	1.35	1.20	ECS-100A-080
	9.216000	X113-ND	1.88	1.69	1.35	1.20	ECS-100A-092.1
	9.830400	X124-ND	1.88	1.69	1.35	1.20	ECS-100A-098.3
	10.000000	X114-ND	1.88	1.69	1.35	1.20	ECS-100A-100
	11.059200	X125-ND	1.88	1.69	1.35	1.20	ECS-100A-110.5
	12.000000	X126-ND	1.88	1.69	1.35	1.20	ECS-100A-120
	14.318180	X115-ND	1.88	1.69	1.35	1.20	ECS-100A-143
	14.745600	X127-ND	1.88	1.69	1.35	1.20	ECS-100A-147.4
	16.000000	X116-ND	1.88	1.69	1.35	1.20	ECS-100A-160
	16.257000	X128-ND	1.88	1.69	1.35	1.20	ECS-100A-162.5
	18.000000	X117-ND	1.88	1.69	1.35	1.20	ECS-100A-180
	18.432000	X118-ND	1.88	1.69	1.35	1.20	ECS-100A-184
	19.660800	XC314-ND	1.88	1.69	1.35	1.20	ECS-100A-196.6
	20.000000	X119-ND	1.88	1.69	1.35	1.20	ECS-100A-200
	24.000000	X129-ND	1.88	1.69	1.35	1.20	ECS-100A-240
	25.000000	XC315-ND	1.88	1.69	1.35	1.20	ECS-100A-250
	25.175000	X130-ND	1.88	1.69	1.35	1.20	ECS-100A-251.7
	28.322000	X131-ND	1.88	1.69	1.35	1.20	ECS-100A-283.2
	30.000000	XC316-ND	1.88	1.69	1.35	1.20	ECS-100A-300
	32.000000	X132-ND	1.88	1.69	1.35	1.20	ECS-100A-320
	32.514000	X133-ND	1.88	1.69	1.35	1.20	ECS-100A-325.1
	35.000000	X134-ND	1.88	1.69	1.35	1.20	ECS-100A-350
	40.000000	X120-ND	1.88	1.69	1.35	1.20	ECS-100A-400
	48.000000	X135-ND	1.88	1.69	1.35	1.20	ECS-100A-480
	50.000000	X121-ND	1.88	1.69	1.35	1.20	ECS-100A-500
	64.000000	X136-ND	1.88	1.69	1.35	1.20	ECS-100A-640
	66.666000	XC228-ND	1.88	1.69	1.35	1.20	ECS-100A-666
ECS-100AX Full Size Oscillators, 5.0V, 0°C ~ 70°C, ±100ppm — RoHS Compliant							
2	1.000000	X937-ND	1.88	1.69	1.35	1.20	ECS-100AX-010
	1.228800	X938-ND	1.88	1.69	1.35	1.20	ECS-100AX-012.2
	1.843200	X939-ND	1.88	1.69	1.35	1.20	ECS-100AX-018
	2.000000	X940-ND	1.88	1.69	1.35	1.20	ECS-100AX-020
	3.579545	XC1154-ND	1.88	1.69	1.35	1.20	ECS-100AX-035
	3.686400	X941-ND	1.88	1.69	1.35	1.20	ECS-100AX-036
	4.000000	X942-ND	1.88	1.69	1.35	1.20	ECS-100AX-040
	6.000000	X943-ND	1.88	1.69	1.35	1.20	ECS-100AX-060
	6.144000	X952-ND	1.88	1.69	1.35	1.20	ECS-100AX-061
	7.372800	X953-ND	1.88	1.69	1.35	1.20	ECS-100AX-073
	8.000000	X944-ND	1.88	1.69	1.35	1.20	ECS-100AX-080
	9.830400	X954-ND	1.88	1.69	1.35	1.20	ECS-100AX-098.3
	10.000000	X945-ND	1.88	1.69	1.35	1.20	ECS-100AX-100
	11.059200	X955-ND	1.88	1.69	1.35	1.20	ECS-100AX-110.5
	14.318180	X946-ND	1.88	1.69	1.35	1.20	ECS-100AX-143
	14.745600	X956-ND	1.88	1.69	1.35	1.20	ECS-100AX-147.4
2	16.000000	X947-ND	1.88	1.69	1.35	1.20	ECS-100AX-160
	18.432000	X948-ND	1.88	1.69	1.35	1.20	ECS-100AX-184
	19.660800	XC1155-ND	1.88	1.69	1.35	1.20	ECS-100AX-196.6
	20.000000	X949-ND	1.88	1.69	1.35	1.20	ECS-100AX-200
	25.000000	XC1156-ND	1.88	1.69	1.35	1.20	ECS-100AX-250
	30.000000	XC1157-ND	1.88	1.69	1.35	1.20	ECS-100AX-300
	32.000000	X957-ND	1.88	1.69	1.35	1.20	ECS-100AX-320
	40.000000	X950-ND	1.88	1.69	1.35	1.20	ECS-100AX-400
	48.000000	X958-ND	1.88	1.69	1.35	1.20	ECS-100AX-480
	50.000000	X951-ND	1.88	1.69	1.35	1.20	ECS-100AX-500
	64.000000	X959-ND	1.88	1.69	1.35	1.20	ECS-100AX-640
ECS-300C Dual Output Oscillators, 5.0V, -10°C ~ 70°C, ±100ppm							
3	12.000000	XC301-ND	5.35	4.46	3.57	2.88	ECS-300C-120
	12.288000	XC302-ND	5.35	4.46	3.57	2.88	ECS-300C-122.8
	12.800000	XC303-ND	5.35	4.46	3.57	2.88	ECS-300C-128
	14.318180	XC304-ND	5.35	4.46	3.57	2.88	ECS-300C-143
	14.745600	XC305-ND	5.35	4.46	3.57	2.88	ECS-300C-147.4
	15.974400	XC306-ND	5.35	4.46	3.57	2.88	ECS-300C-159.7
	16.000000	XC307-ND	5.35	4.46	3.57	2.88	ECS-300C-160
	16.384000	XC308-ND	5.35	4.46	3.57	2.88	ECS-300C-163.8
	17.734476	XC309-ND	5.35	4.46	3.57	2.88	ECS-300C-177.3
	18.432000	XC310-ND	5.35	4.46	3.57	2.88	ECS-300C-184
	19.660800	XC311-ND	5.35	4.46	3.57	2.88	ECS-300C-196.6
	20.000000	XC312-ND	5.35	4.46	3.57	2.88	ECS-300C-200
	24.000000	XC313-ND	5.35	4.46	3.57	2.88	ECS-300C-240
ECS-300CX Dual Output Oscillators, 5.0V, -10°C ~ 70°C, ±100ppm — RoHS Compliant							
3	12.000000	XC1170-ND	5.35	4.46	3.57	2.88	ECS-300CX-120
	12.800000	XC1171-ND	5.35	4.46	3.57	2.88	ECS-300CX-128
	14.318180	XC1172-ND	5.35	4.46	3.57	2.88	ECS-300CX-143
	16.000000	XC1173-ND	5.35	4.46	3.57	2.88	ECS-300CX-160
	16.384000	XC1174-ND	5.35	4.46	3.57	2.88	ECS-300CX-163.8
	18.432000	XC1175-ND	5.35	4.46	3.57	2.88	ECS-300CX-184
	20.000000	XC1176-ND	5.35	4.46	3.57	2.88	ECS-300CX-200
	24.000000	XC1177-ND	5.35	4.46	3.57	2.88	ECS-300CX-240

A463-ND	Aries Electronics Inc. Half Size 4-Pin Oscillator Sockets.......	**$.55/1**	**$11.60/25**	**$37.59/100**
A462-ND	Aries Electronics Inc. Full Size 4-Pin Oscillator Sockets.......	**$.55/1**	**$11.60/25**	**$37.59/100**

Quartz Crystals

CSM-7X-3L Series

Digi-Reel® RoHS COMPLIANT

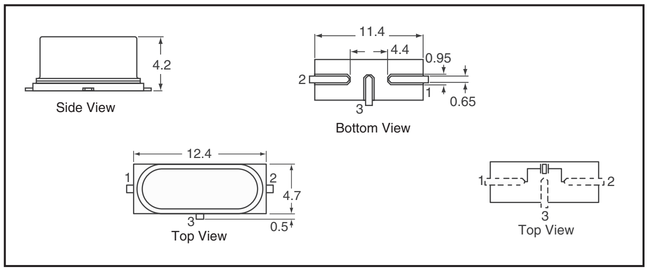

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 1,000	ECS Part No.
CSM-7X-3L-DS Extended Temperature, -40°C ~ 125°C, Case Ground							
3.579545	18pF	XC1490CT-ND	1.05	.95	.79	525.00	ECS-35-18-5G3XDS-TR
3.686400	20pF	XC1491CT-ND	1.05	.95	.79	525.00	ECS-36-20-5G3XDS-TR
4.000000	20pF	XC1492CT-ND	1.05	.95	.79	525.00	ECS-40-20-5G3XDS-TR
6.000000	20pF	XC1493CT-ND	1.05	.95	.79	525.00	ECS-60-20-5G3XDS-TR
8.000000	20pF	XC1494CT-ND	1.05	.95	.79	525.00	ECS-80-20-5G3XDS-TR
9.830400	20pF	XC1495CT-ND	1.05	.95	.79	525.00	ECS-98.3-20-5G3XDS-TR
10.000000	20pF	XC1496CT-ND	1.05	.95	.79	525.00	ECS-100-20-5G3XDS-TR
11.059200	20pF	XC1497CT-ND	1.05	.95	.79	525.00	ECS-110.5-20-5G3XDS-TR
12.000000	18pF	XC1498CT-ND	1.05	.95	.79	525.00	ECS-120-18-5G3XDS-TR
12.000000	32pF	XC1499CT-ND	1.05	.95	.79	525.00	ECS-120-32-5G3XDS-TR
12.288000	20pF	XC1500CT-ND	1.05	.95	.79	525.00	ECS-122.8-20-5G3XDS-TR
14.318180	20pF	XC1501CT-ND	1.05	.95	.79	525.00	ECS-143-20-5G3XDS-TR
14.745600	20pF	XC1502CT-ND	1.05	.95	.79	525.00	ECS-147.4-20-5G3XDS-TR
16.000000	20pF	XC1503CT-ND	1.05	.95	.79	525.00	ECS-160-20-5G3XDS-TR
18.432000	20pF	XC1504CT-ND	1.05	.95	.79	525.00	ECS-184-20-5G3XDS-TR
20.000000	20pF	XC1505CT-ND	1.05	.95	.79	525.00	ECS-200-20-5G3XDS-TR
24.000000	20pF	XC1506CT-ND	1.05	.95	.79	525.00	ECS-240-20-5G3XDS-TR
24.576000	20pF	XC1507CT-ND	1.05	.95	.79	525.00	ECS-245.7-20-5G3XDS-TR
25.000000	20pF	XC1508CT-ND	1.05	.95	.79	525.00	ECS-250-20-5G3XDS-F-TR
27.000000	20pF	XC1509CT-ND	1.05	.95	.79	525.00	ECS-270-20-5G3XDS-F-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

CSM-7 Series, SMD, Low Profile

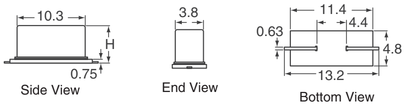

Dimension H (mm)	
CSM-7	4.3
CSM-7X	4.3
CSM-7SS	2.6

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 1,000	ECS Part No.
CSM-7-DN Industrial Temperature Range, -40°C ~ 85°C							
3.579545	17pF	XC730CT-ND	1.05	.88	.71	526.50	ECS-35-17-5PDN-TR
3.686400	20pF	XC731CT-ND	1.05	.88	.71	526.50	ECS-36-20-5PDN-TR
4.000000	20pF	XC732CT-ND	1.05	.88	.71	526.50	ECS-40-20-5PDN-TR
6.000000	32pF	XC733CT-ND	1.05	.88	.71	526.50	ECS-60-32-5PDN-TR
7.372800	20pF	XC734CT-ND	1.05	.88	.71	526.50	ECS-73-20-5PDN-TR
8.000000	18pF	XC735CT-ND	1.05	.88	.71	526.50	ECS-80-18-5PDN-TR
12.000000	20pF	XC736CT-ND	1.05	.88	.71	526.50	ECS-120-20-5PDN-TR
14.318180	20pF	XC737CT-ND	1.05	.88	.71	526.50	ECS-143-20-5PDN-TR
16.000000	20pF	XC738CT-ND	1.05	.88	.71	526.50	ECS-160-20-5PDN-TR
18.432000	20pF	XC739CT-ND	1.05	.88	.71	526.50	ECS-184-20-5PDN-TR
19.660800	20pF	XC740CT-ND	1.05	.88	.71	526.50	ECS-196-20-5PDN-TR
20.000000	20pF	XC741CT-ND	1.05	.88	.71	526.50	ECS-200-20-5PDN-TR
24.000000	20pF	XC742CT-ND	1.05	.88	.71	526.50	ECS-240-20-5PDN-TR
CSM-7X-DN Industrial Temperature Range, -40°C ~ 85°C — RoHS Compliant							
3.579545	17pF	XC1292CT-ND	1.05	.88	.71	527.00	ECS-35-17-5PXDN-TR
3.686400	20pF	XC1293CT-ND	1.05	.88	.71	527.00	ECS-36-20-5PXDN-TR
4.000000	20pF	XC1294CT-ND	1.05	.88	.71	527.00	ECS-40-20-5PXDN-TR
6.000000	32pF	XC1295CT-ND	1.05	.88	.71	527.00	ECS-60-32-5PXDN-TR
7.372800	20pF	XC1296CT-ND	1.05	.88	.71	527.00	ECS-73-20-5PXDN-TR
8.000000	18pF	XC1297CT-ND	1.05	.88	.71	527.00	ECS-80-18-5PXDN-TR
12.000000	20pF	XC1298CT-ND	1.05	.88	.71	527.00	ECS-120-20-5PXDN-TR
16.000000	20pF	XC1299CT-ND	1.05	.88	.71	527.00	ECS-160-20-5PXDN-TR
18.432000	20pF	XC1300CT-ND	1.05	.88	.71	527.00	ECS-184-20-5PXDN-TR
19.660800	20pF	XC1301CT-ND	1.05	.88	.71	527.00	ECS-196-20-5PXDN-TR
20.000000	20pF	XC1302CT-ND	1.05	.88	.71	527.00	ECS-200-20-5PXDN-TR
24.000000	20pF	XC1303CT-ND	1.05	.88	.71	527.00	ECS-240-20-5PXDN-TR
CSM-7X-DU Automotive Temperature, -55°C ~ 125°C — RoHS Compliant							
3.579545	18pF	XC1522CT-ND	1.17	1.06	.88	585.00	ECS-35-18-5PXDU-TR
3.686400	20pF	XC1523CT-ND	1.17	1.06	.88	585.00	ECS-36-20-5PXDU-TR
4.000000	20pF	XC1524CT-ND	1.17	1.06	.88	585.00	ECS-40-20-5PXDU-TR
6.000000	20pF	XC1525CT-ND	1.17	1.06	.88	585.00	ECS-60-20-5PXDU-TR
8.000000	20pF	XC1526CT-ND	1.17	1.06	.88	585.00	ECS-80-20-5PXDU-TR
9.830400	20pF	XC1527CT-ND	1.17	1.06	.88	585.00	ECS-98.3-20-5PXDU-TR
10.000000	20pF	XC1528CT-ND	1.17	1.06	.88	585.00	ECS-100-20-5PXDU-TR
11.059200	20pF	XC1529CT-ND	1.17	1.06	.88	585.00	ECS-110.5-20-5PXDU-TR
12.000000	18pF	XC1530CT-ND	1.17	1.06	.88	585.00	ECS-120-18-5PXDU-TR
12.000000	32pF	XC1531CT-ND	1.17	1.06	.88	585.00	ECS-120-32-5PXDU-TR
12.288000	20pF	XC1532CT-ND	1.17	1.06	.88	585.00	ECS-122.8-20-5PXDU-TR
14.318180	20pF	XC1533CT-ND	1.17	1.06	.88	585.00	ECS-143-20-5PXDU-TR
14.745600	20pF	XC1534CT-ND	1.17	1.06	.88	585.00	ECS-147.4-20-5PXDU-TR
16.000000	20pF	XC1535CT-ND	1.17	1.06	.88	585.00	ECS-160-20-5PXDU-TR
18.432000	20pF	XC1536CT-ND	1.17	1.06	.88	585.00	ECS-184-20-5PXDU-TR
20.000000	20pF	XC1537CT-ND	1.17	1.06	.88	585.00	ECS-200-20-5PXDU-TR
24.000000	20pF	XC1538CT-ND	1.17	1.06	.88	585.00	ECS-240-20-5PXDU-TR
24.576000	20pF	XC1539CT-ND	1.17	1.06	.88	585.00	ECS-245.7-20-5PXDU-TR
25.000000	20pF	XC1540CT-ND	1.17	1.06	.88	585.00	ECS-250-20-5PXDU-F-TR
27.000000	20pF	XC1541CT-ND	1.17	1.06	.88	585.00	ECS-270-20-5PXDU-F-TR
CSM-7, -10°C ~ 70°C							
3.579545	Series	XC663CT-ND	.73	.61	.49	405.00	ECS-35-S-5P-TR
3.579545	17pF	XC560CT-ND	.73	.61	.49	405.00	ECS-35-17-5P-TR
3.686400	Series	XC561CT-ND	.73	.61	.49	405.00	ECS-36-S-5P-TR
3.686400	20pF	XC562CT-ND	.73	.61	.49	405.00	ECS-36-20-5P-TR
4.000000	Series	XC563CT-ND	.73	.61	.49	405.00	ECS-40-S-5P-TR
4.000000	20pF	XC564CT-ND	.73	.61	.49	405.00	ECS-40-20-5P-TR
4.032000	Series	XC665CT-ND	.73	.61	.49	405.00	ECS-40.3-S-5P-TR
4.032000	20pF	XC664CT-ND	.73	.61	.49	405.00	ECS-40.3-20-5P-TR
4.096000	20pF	XC666CT-ND	.73	.61	.49	405.00	ECS-41-20-5P-TR
4.194304	12pF	XC667CT-ND	.73	.61	.49	405.00	ECS-42-12-5P-TR
4.194304	16pF	XC668CT-ND	.73	.61	.49	405.00	ECS-42-16-5P-TR
4.433618	20pF	XC669CT-ND	.73	.61	.49	405.00	ECS-44-20-5P-TR
4.915200	Series	XC565CT-ND	.73	.61	.49	405.00	ECS-49-S-5P-TR
4.915200	20pF	XC566CT-ND	.73	.61	.49	405.00	ECS-49-20-5P-TR
5.000000	Series	XC670CT-ND	.73	.61	.49	405.00	ECS-50-S-5P-TR
5.000000	20pF	XC671CT-ND	.73	.61	.49	405.00	ECS-50-20-5P-TR
5.068800	Series	XC672CT-ND	.73	.61	.49	405.00	ECS-51-S-5P-TR
5.068800	20pF	XC673CT-ND	.73	.61	.49	405.00	ECS-51-20-5P-TR
5.185000	Series	XC674CT-ND	.73	.61	.49	405.00	ECS-52-S-5P-TR
5.185000	32pF	XC675CT-ND	.73	.61	.49	405.00	ECS-52-32-5P-TR
5.990400	Series	XC676CT-ND	.73	.61	.49	405.00	ECS-59-S-5P-TR
5.990400	20pF	XC677CT-ND	.73	.61	.49	405.00	ECS-59.9-20-5P-TR
6.000000	Series	XC678CT-ND	.73	.61	.49	405.00	ECS-60-S-5P-TR
6.000000	32pF	XC679CT-ND	.73	.61	.49	405.00	ECS-60-32-5P-TR
6.144000	32pF	XC567CT-ND	.73	.61	.49	405.00	ECS-61-32-5P-TR
7.372800	Series	XC568CT-ND	.73	.61	.49	405.00	ECS-73-S-5P-TR
7.372800	20pF	XC680CT-ND	.73	.61	.49	405.00	ECS-73-20-5P-TR
8.000000	Series	XC569CT-ND	.73	.61	.49	405.00	ECS-80-S-5P-TR
8.000000	18pF	XC681CT-ND	.73	.61	.49	405.00	ECS-80-18-5P-TR
8.000000	32pF	XC682CT-ND	.73	.61	.49	405.00	ECS-80-32-5P-TR
9.216000	Series	XC683CT-ND	.73	.61	.49	405.00	ECS-92.1-S-5P-TR
9.216000	20pF	XC684CT-ND	.73	.61	.49	405.00	ECS-92.1-20-5P-TR
9.830400	Series	XC570CT-ND	.73	.61	.49	405.00	ECS-98.3-S-5P-TR
9.830400	20pF	XC571CT-ND	.73	.61	.49	405.00	ECS-98.3-20-5P-TR
10.000000	Series	XC572CT-ND	.73	.61	.49	405.00	ECS-100-S-5P-TR
10.000000	18pF	XC716CT-ND	.73	.61	.49	405.00	ECS-100-18-5P-TR
11.000000	Series	XC685CT-ND	.73	.61	.49	405.00	ECS-110-S-5P-TR
11.059200	Series	XC573CT-ND	.73	.61	.49	405.00	ECS-110.5-S-5P-TR
11.059200	20pF	XC574CT-ND	.73	.61	.49	405.00	ECS-110.5-20-5P-TR
11.059200	32pF	XC686CT-ND	.73	.61	.49	405.00	ECS-110.5-32-5P-TR
12.000000	Series	XC575CT-ND	.73	.61	.49	405.00	ECS-120-S-5P-TR
12.000000	18pF	XC717CT-ND	.73	.61	.49	405.00	ECS-120-18-5P-TR
12.000000	32pF	XC687CT-ND	.73	.61	.49	405.00	ECS-120-32-5P-TR
12.000393	18pF	XC688CT-ND	.73	.61	.49	405.00	ECS-120.003-18-5PTR
12.288000	Series	XC689CT-ND	.73	.61	.49	405.00	ECS-122.8-S-5P-TR
12.288000	20pF	XC690CT-ND	.73	.61	.49	405.00	ECS-122.8-20-5P-TR
14.318180	Series	XC576CT-ND	.73	.61	.49	405.00	ECS-143-S-5P-TR
14.318180	20pF	XC718CT-ND	.73	.61	.49	405.00	ECS-143-20-5P-TR
14.745600	Series	XC691CT-ND	.73	.61	.49	405.00	ECS-147.4-S-5P-TR
14.745600	20pF	XC692CT-ND	.73	.61	.49	405.00	ECS-147.4-20-5P-TR
15.000000	Series	XC693CT-ND	.73	.61	.49	405.00	ECS-150-S-5P-TR
16.000000	Series	XC577CT-ND	.73	.61	.49	405.00	ECS-160-S-5P-TR
16.000000	20pF	XC694CT-ND	.73	.61	.49	405.00	ECS-160-20-5P-TR
16.000312	18pF	XC695CT-ND	.73	.61	.49	405.00	ECS-160.003-18-5PTR
16.257000	Series	XC697CT-ND	.73	.61	.49	405.00	ECS-162.5-S-5P-TR
16.257000	20pF	XC696CT-ND	.73	.61	.49	405.00	ECS-162.5-20-5P-TR
18.000000	Series	XC698CT-ND	.73	.61	.49	405.00	ECS-180-S-5P-TR
18.432000	Series	XC578CT-ND	.73	.61	.49	405.00	ECS-184-S-5P-TR
18.432000	18pF	XC699CT-ND	.73	.61	.49	405.00	ECS-184-18-5P-TR
18.432000	20pF	XC700CT-ND	.73	.61	.49	405.00	ECS-184-20-5P-TR
19.660800	Series	XC579CT-ND	.73	.61	.49	405.00	ECS-196.6-S-5P-TR
19.660800	20pF	XC701CT-ND	.73	.61	.49	405.00	ECS-196.6-20-5P-TR
20.000000	Series	XC580CT-ND	.73	.61	.49	405.00	ECS-200-S-5P-TR
20.000000	16pF	XC719CT-ND	.73	.61	.49	405.00	ECS-200-16-5P-TR
20.000000	20pF	XC581CT-ND	.73	.61	.49	405.00	ECS-200-20-5P-TR
20.480000	20pF	XC743CT-ND	.73	.61	.49	405.00	ECS-204.8-20-5P-TR
24.000000	16pF	XC583CT-ND	.73	.61	.49	405.00	ECS-240-16-5P-TR
24.000000	20pF	XC582CT-ND	.73	.61	.49	405.00	ECS-240-20-5P-TR
24.000140	18pF	XC702CT-ND	.73	.61	.49	405.00	ECS-240.001-18-5PTR
24.576000	20pF	XC744CT-ND	.73	.61	.49	405.00	ECS-245.7-20-5P-TR
25.000000	18pF	XC745CT-ND	.73	.61	.49	405.00	ECS-250-18-5P-F-TR
48.000000	20pF	XC941CT-ND§	.73	.61	.49	405.00	ECS-480-20-5P-TR
CSM-7X, -10°C ~ 70°C — RoHS Compliant							
3.579545	Series	XC1257CT-ND	.73	.61	.49	405.00	ECS-35-S-5PX-TR
3.579545	17pF	XC1234CT-ND	.73	.61	.49	405.00	ECS-35-17-5PX-TR
3.686400	Series	XC1235CT-ND	.73	.61	.49	405.00	ECS-36-S-5PX-TR
3.686400	20pF	XC1236CT-ND	.73	.61	.49	405.00	ECS-36-20-5PX-TR
4.000000	Series	XC1237CT-ND	.73	.61	.49	405.00	ECS-40-S-5PX-TR
4.000000	20pF	XC1238CT-ND	.73	.61	.49	405.00	ECS-40-20-5PX-TR
4.032000	Series	XC1259CT-ND	.73	.61	.49	405.00	ECS-40.3-S-5PX-TR
4.032000	20pF	XC1258CT-ND	.73	.61	.49	405.00	ECS-40.3-20-5PX-TR
4.096000	20pF	XC1260CT-ND	.73	.61	.49	405.00	ECS-41-20-5PX-TR
4.194304	12pF	XC1261CT-ND	.73	.61	.49	405.00	ECS-42-12-5PX-TR
4.194304	16pF	XC1262CT-ND	.73	.61	.49	405.00	ECS-42-16-5PX-TR
4.433618	20pF	XC1263CT-ND	.73	.61	.49	405.00	ECS-44-20-5PX-TR
4.915200	Series	XC1239CT-ND	.73	.61	.49	405.00	ECS-49-S-5PX-TR
4.915200	20pF	XC1240CT-ND	.73	.61	.49	405.00	ECS-49-20-5PX-TR
5.000000	Series	XC1264CT-ND	.73	.61	.49	405.00	ECS-50-S-5PX-TR
5.000000	20pF	XC1265CT-ND	.73	.61	.49	405.00	ECS-50-20-5PX-TR
5.185000	32pF	XC1266CT-ND	.73	.61	.49	405.00	ECS-52-32-5PX-TR
5.990400	20pF	XC1267CT-ND	.73	.61	.49	405.00	ECS-59.9-20-5PX-TR
6.000000	Series	XC1268CT-ND	.73	.61	.49	405.00	ECS-60-S-5PX-TR
6.000000	20pF	XC1000CT-ND	.81	.73	.61	405.00	ECS-60-20-5PX-TR
6.000000	32pF	XC1269CT-ND	.73	.61	.49	405.00	ECS-60-32-5PX-TR
6.144000	32pF	XC1241CT-ND	.73	.61	.49	405.00	ECS-61-32-5PX-TR
7.372800	Series	XC1242CT-ND	.73	.61	.49	405.00	ECS-73-S-5PX-TR
7.372800	20pF	XC1270CT-ND	.73	.61	.49	405.00	ECS-73-20-5PX-TR
8.000000	Series	XC1243CT-ND	.73	.61	.49	405.00	ECS-80-S-5PX-TR
8.000000	18pF	XC1271CT-ND	.73	.61	.49	405.00	ECS-80-18-5PX-TR
8.000000	32pF	XC1272CT-ND	.73	.61	.49	405.00	ECS-80-32-5PX-TR
9.216000	Series	XC1273CT-ND	.73	.61	.49	405.00	ECS-92.1-S-5PX-TR
9.216000	20pF	XC1274CT-ND	.73	.61	.49	405.00	ECS-92.1-20-5PX-TR
9.830400	Series	XC1244CT-ND	.73	.61	.49	405.00	ECS-98.3-S-5PX-TR

† For Tape and Reel part number , change CT-ND to TR-ND.
‡ Due to manufacturer, product may come Cut Tape or Bulk § 3rd Overtone

(Continued)

CSM-7 Series, SMD, Low Profile *(Cont.)*

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 1,000	ECS Part No.
9.830400	20pF	XC1245CT-ND	.73	.61	.49	405.00	ECS-98.3-20-5PX-TR
10.000000	Series	XC1246CT-ND	.73	.61	.49	405.00	ECS-100-S-5PX-TR
10.000000	18pF	XC1288CT-ND	.73	.61	.49	405.00	ECS-100-18-5PX-TR
10.245000	16pF	XC1004CT-ND	1.95	1.76	1.47	975.00	ECS-102.45-16-5PX-TR
11.059200	Series	XC1247CT-ND	.73	.61	.49	405.00	ECS-110.5-S-5PX-TR
11.059200	20pF	XC1248CT-ND	.73	.61	.49	405.00	ECS-110.5-20-5PX-TR
11.059200	32pF	XC1275CT-ND	.73	.61	.49	405.00	ECS-110.5-32-5PX-TR
12.000000	Series	XC1249CT-ND	.73	.61	.49	405.00	ECS-120-S-5PX-TR
12.000000	18pF	XC1289CT-ND	.73	.61	.49	405.00	ECS-120-18-5PX-TR
12.000000	32pF	XC1276CT-ND	.73	.61	.49	405.00	ECS-120-32-5PX-TR
12.288000	Series	XC1277CT-ND	.73	.61	.49	405.00	ECS-122.8-S-5PX-TR
12.288000	20pF	XC1278CT-ND	.73	.61	.49	405.00	ECS-122.8-20-5PX-TR
13.560000	12pF	XC1003CT-ND	1.95	1.76	1.47	975.00	ECS-135.6-12-5PX-TR
14.318180	Series	XC1250CT-ND	.73	.61	.49	405.00	ECS-143-S-5PX-TR
14.318180	20pF	XC1290CT-ND	.73	.61	.49	405.00	ECS-143-20-5PX-TR
14.745600	Series	XC1279CT-ND	.73	.61	.49	405.00	ECS-147.4-S-5PX-TR
14.745600	20pF	XC1280CT-ND	.73	.61	.49	405.00	ECS-147.4-20-5PX-TR
15.000000	Series	XC1281CT-ND	.73	.61	.49	405.00	ECS-150-S-5PX-TR
16.000000	Series	XC1251CT-ND	.73	.61	.49	405.00	ECS-160-S-5PX-TR
16.000000	20pF	XC1282CT-ND	.73	.61	.49	405.00	ECS-160-20-5PX-TR
16.000312	18pF	XC1283CT-ND	.73	.61	.49	405.00	ECS-160.003-18-5PX-TR
18.000000	Series	XC1284CT-ND	.73	.61	.49	405.00	ECS-180-S-5PX-TR
18.432000	Series	XC1252CT-ND	.73	.61	.49	405.00	ECS-184-S-5PX-TR
18.432000	18pF	XC1285CT-ND	.73	.61	.49	405.00	ECS-184-18-5PX-TR
18.432000	20pF	XC1286CT-ND	.73	.61	.49	405.00	ECS-184-20-5PX-TR
19.660800	20pF	XC1287CT-ND	.73	.61	.49	405.00	ECS-196.6-20-5PX-TR
20.000000	Series	XC1253CT-ND	.73	.61	.49	405.00	ECS-200-S-5PX-TR
20.000000	16pF	XC1291CT-ND	.73	.61	.49	405.00	ECS-200-16-5PX-TR
20.000000	20pF	XC1254CT-ND	.73	.61	.49	405.00	ECS-200-20-5PX-TR
24.000000	12pF	XC1001CT-ND	.81	.73	.61	405.00	ECS-240-12-5PX-TR
24.000000	16pF	XC1256CT-ND	.73	.61	.49	405.00	ECS-240-16-5PX-TR
24.000000	20pF	XC1255CT-ND	.73	.61	.49	405.00	ECS-240-20-5PX-TR
24.576000	20pF	XC1304CT-ND	.73	.61	.49	405.00	ECS-245.7-20-5PX-TR
25.000000	18pF	XC1305CT-ND	.73	.61	.49	405.00	ECS-250-18-5PX-F-TR
27.000000	18pF	XC1002CT-ND	.73	.61	.49	405.00	ECS-270-18-5PX-F-TR
48.000000	20pF	XC1306CT-ND§	.73	.61	.49	405.00	ECS-480-20-5PX-TR
CSM-7SSX Low Profile, -10°C ~ 70°C — RoHS Compliant							
3.579545	18pF	XC1588CT-ND	1.02	.92	.77	510.00	ECS-35-18-5PVX
3.686400	20pF	XC1589CT-ND	1.02	.92	.77	510.00	ECS-36-20-5PVX
4.000000	20pF	XC1590CT-ND	1.02	.92	.77	510.00	ECS-40-20-5PVX
6.000000	20pF	XC1591CT-ND	1.02	.92	.77	510.00	ECS-60-20-5PVX
8.000000	20pF	XC1592CT-ND	1.02	.92	.77	510.00	ECS-80-20-5PVX
9.830400	20pF	XC1593CT-ND	1.02	.92	.77	510.00	ECS-98.3-20-5PVX
10.000000	20pF	XC1594CT-ND	1.02	.92	.77	510.00	ECS-100-20-5PVX
11.059200	20pF	XC1595CT-ND	1.02	.92	.77	510.00	ECS-110.5-20-5PVX
12.000000	18pF	XC1596CT-ND	1.02	.92	.77	510.00	ECS-120-18-5PVX
12.000000	32pF	XC1597CT-ND	1.02	.92	.77	510.00	ECS-120-32-5PVX
12.288000	20pF	XC1598CT-ND	1.02	.92	.77	510.00	ECS-122.8-20-5PVX
14.318180	20pF	XC1599CT-ND	1.02	.92	.77	510.00	ECS-143-20-5PVX
14.745600	20pF	XC1600CT-ND	1.02	.92	.77	510.00	ECS-147.4-20-5PVX
16.000000	20pF	XC1601CT-ND	1.02	.92	.77	510.00	ECS-160-20-5PVX
18.432000	20pF	XC1602CT-ND	1.02	.92	.77	510.00	ECS-184-20-5PVX
20.000000	20pF	XC1603CT-ND	1.02	.92	.77	510.00	ECS-200-20-5PVX
24.000000	20pF	XC1604CT-ND	1.02	.92	.77	510.00	ECS-240-20-5PVX
24.576000	20pF	XC1605CT-ND	1.02	.92	.77	510.00	ECS-245.7-20-5PVX
25.000000	20pF	XC1606CT-ND	1.02	.92	.77	510.00	ECS-250-20-5PVX
27.000000	20pF	XC1607CT-ND	1.02	.92	.77	510.00	ECS-270-20-5PVX
CSM-7 for Melexis and Other RF Applications, -10°C ~ 70°C							
7.150500	12pF	XC871-ND‡	1.95	1.76	1.47	—	ECS-071.505-CD-0370
9.843800	12pF	XC872-ND‡	1.95	1.76	1.47	—	ECS-098.438-CD-0371
13.062500	12pF	XC873-ND‡	1.95	1.76	1.47	—	ECS-130.625-CD-0373
13.560000	12pF	XC874-ND‡	1.95	1.76	1.47	—	ECS-135.600-CD-0374
20.356300	12pF	XC875-ND‡	1.95	1.76	1.47	—	ECS-203.563-CD-0375
22.627800	12pF	XC876-ND‡	1.95	1.76	1.47	—	ECS-226.278-CD-0376
23.264300	12pF	XC877-ND‡	1.95	1.76	1.47	—	ECS-232.643-CD-0377
23.512200	12pF	XC878-ND‡	1.95	1.76	1.47	—	ECS-235.122-CD-0378
25.223500	12pF	XC879-ND‡	1.95	1.76	1.47	—	ECS-252.235-CD-0379
25.456300	12pF	XC880-ND‡	1.95	1.76	1.47	—	ECS-254.563-CD-0380
26.451300	12pF	XC881-ND‡	1.95	1.76	1.47	—	ECS-264.513-CD-0381
26.597100	12pF	XC882-ND‡	1.95	1.76	1.47	—	ECS-265.971-CD-0382
27.134400	12pF	XC883-ND‡	1.95	1.76	1.47	—	ECS-271.344-CD-0383
27.468800	12pF	XC884-ND‡	1.95	1.76	1.47	—	ECS-274.688-CD-0384
28.259400	12pF	XC885-ND‡	1.95	1.76	1.47	—	ECS-282.594-CD-0385
28.593800	12pF	XC886-ND‡	1.95	1.76	1.47	—	ECS-285.938-CD-0386
CSM-7X for Melexis and Other RF Applications, -10°C ~ 70°C — RoHS Compliant							
4.897000	20pF	XC1023CT-ND	1.95	1.76	1.47	975.00	ECS-48.97-CDX-0065-TR
6.498300	20pF	XC1024CT-ND	1.95	1.76	1.47	975.00	ECS-64.983-CDX-0067-TR
6.745800	20pF	XC1025CT-ND	1.95	1.76	1.47	975.00	ECS-67.458-CDX-0068-TR
7.150500	12pF	XC1355-ND‡	1.95	1.76	1.47	—	ECS-071.505-CDX-0370
9.843750	10pF	XC1026CT-ND	1.95	1.76	1.47	975.00	ECS-98.4375-CDX-0314-TR
9.843800	12pF	XC1356-ND‡	1.95	1.76	1.47	—	ECS-098.438-CDX-0371
13.062500	12pF	XC1357-ND‡	1.95	1.76	1.47	—	ECS-130.625-CDX-0373
13.560000	10pF	XC1027CT-ND	1.95	1.76	1.47	975.00	ECS-135.60-CDX-0317-TR
13.560000	12pF	XC1358-ND‡	1.95	1.76	1.47	—	ECS-135.600-CDX-0374
20.356300	12pF	XC1359-ND‡	1.95	1.76	1.47	—	ECS-203.563-CDX-0375
22.627800	12pF	XC1360-ND‡	1.95	1.76	1.47	—	ECS-226.278-CDX-0376
23.264300	12pF	XC1361-ND‡	1.95	1.76	1.47	—	ECS-232.643-CDX-0377
23.512200	12pF	XC1362-ND‡	1.95	1.76	1.47	—	ECS-235.122-CDX-0378
25.223500	12pF	XC1363-ND‡	1.95	1.76	1.47	—	ECS-252.235-CDX-0379
25.456300	12pF	XC1364-ND‡	1.95	1.76	1.47	—	ECS-254.563-CDX-0380
26.451300	12pF	XC1365-ND‡	1.95	1.76	1.47	—	ECS-264.513-CDX-0381
26.597100	12pF	XC1366-ND‡	1.95	1.76	1.47	—	ECS-265.971-CDX-0382
27.134400	12pF	XC1367-ND‡	1.95	1.76	1.47	—	ECS-271.344-CDX-0383
27.468800	12pF	XC1368-ND‡	1.95	1.76	1.47	—	ECS-274.688-CDX-0384
28.259400	12pF	XC1369-ND‡	1.95	1.76	1.47	—	ECS-282.594-CDX-0385
28.593800	12pF	XC1370-ND‡	1.95	1.76	1.47	—	ECS-285.938-CDX-0386

† For Tape and Reel part number, change CT-ND to TR-ND.
‡ Due to manufacturer, product may come Cut Tape or Bulk § 3rd Overtone

CSM-4A Series, SMD, Low Profile

Electrical Specifications: • The CSM-4A is also pin-out compatible with the Epson MA-506 • **Frequency Tolerance:** ±30ppm • **Operating Mode:** Fundamental • **Shunt Capacitance:** 7pF • **Storage Temperature:** -30°C ~ 85°C • **Operating Temperature:** -10°C ~ 70°C • **Drive Level:** 500µW

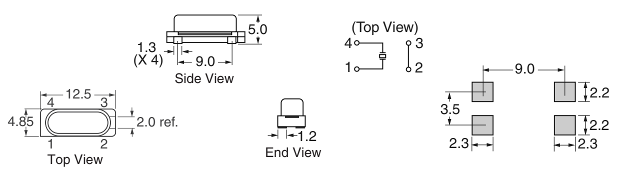

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel Pricing† 1,000	ECS Part No.
CSM-4A							
3.579545	17pF	XC747CT-ND	1.35	1.24	1.02	675.00	ECS-35-17-28A-TR
3.686400	20pF	XC748CT-ND	1.35	1.24	1.02	675.00	ECS-36-20-28A-TR
4.000000	20pF	XC749CT-ND	1.35	1.24	1.02	675.00	ECS-40-20-28A-TR
4.915200	20pF	XC751CT-ND	1.35	1.24	1.02	675.00	ECS-49-20-28A-TR
5.000000	20pF	XC750CT-ND	1.35	1.24	1.02	675.00	ECS-50-20-28A-TR
6.000000	32pF	XC752CT-ND	1.35	1.24	1.02	675.00	ECS-60-32-28A-TR
7.372800	20pF	XC753CT-ND	1.35	1.24	1.02	675.00	ECS-73-20-28A-TR
8.000000	16pF	XC754CT-ND	1.35	1.24	1.02	675.00	ECS-80-16-28A-TR
9.830400	20pF	XC778CT-ND	1.35	1.24	1.02	675.00	ECS-98.3-20-28A-TR
10.000000	Series	XC755CT-ND	1.35	1.24	1.02	675.00	ECS-100-S-28A-TR
10.000000	20pF	XC756CT-ND	1.35	1.24	1.02	675.00	ECS-100-20-28A-TR
11.059200	Series	XC757CT-ND	1.35	1.24	1.02	675.00	ECS-110.5-S-28A-TR
11.059200	20pF	XC758CT-ND	1.35	1.24	1.02	675.00	ECS-110.5-20-28A-TR
12.000000	Series	XC760CT-ND	1.35	1.24	1.02	675.00	ECS-120-S-28A-TR
12.000000	18pF	XC759CT-ND	1.35	1.24	1.02	675.00	ECS-120-18-28A-TR
12.000000	32pF	XC761CT-ND	1.35	1.24	1.02	675.00	ECS-120-32-28A-TR
12.288000	20pF	XC762CT-ND	1.35	1.24	1.02	675.00	ECS-122.8-20-28A-TR
14.318180	Series	XC764CT-ND	1.35	1.24	1.02	675.00	ECS-143-S-28A-TR
14.318180	20pF	XC763CT-ND	1.35	1.24	1.02	675.00	ECS-143-20-28A-TR
14.745600	Series	XC765CT-ND	1.35	1.24	1.02	675.00	ECS-147.4-S-28A-TR
14.745600	20pF	XC766CT-ND	1.35	1.24	1.02	675.00	ECS-147.4-20-28A-TR
16.000000	Series	XC768CT-ND	1.35	1.24	1.02	675.00	ECS-160-S-28A-TR
16.000000	20pF	XC767CT-ND	1.35	1.24	1.02	675.00	ECS-160-20-28A-TR
18.432000	Series	XC769CT-ND	1.35	1.24	1.02	675.00	ECS-184-S-28A-TR
18.432000	20pF	XC770CT-ND	1.35	1.24	1.02	675.00	ECS-184-20-28A-TR
20.000000	Series	XC771CT-ND	1.35	1.24	1.02	675.00	ECS-200-S-28A-TR
20.000000	20pF	XC772CT-ND	1.35	1.24	1.02	675.00	ECS-200-20-28A-TR
24.000000	Series	XC773CT-ND	1.35	1.24	1.02	675.00	ECS-240-S-28A-TR
24.000000	12pF	XC1008CT-ND	1.35	1.22	1.02	675.00	ECS-240-12-28A-TR
24.000000	20pF	XC774CT-ND	1.35	1.24	1.02	675.00	ECS-240-20-28A-TR
24.576000	20pF	XC775CT-ND	1.35	1.24	1.02	675.00	ECS-245.7-20-28A-TR
25.000000	20pF	XC776CT-ND	1.35	1.24	1.02	675.00	ECS-250-20-28A-F-TR
CSM-4AX — RoHS Compliant							
3.686400	20pF	XC1308CT-ND	1.35	1.24	1.02	675.00	ECS-36-20-28AX-TR
4.000000	20pF	XC1309CT-ND	1.35	1.24	1.02	675.00	ECS-40-20-28AX-TR
6.000000	32pF	XC1310CT-ND	1.35	1.24	1.02	675.00	ECS-60-32-28AX-TR
7.372800	20pF	XC1311CT-ND	1.35	1.24	1.02	675.00	ECS-73-20-28AX-TR
8.000000	16pF	XC1312CT-ND	1.35	1.24	1.02	675.00	ECS-80-16-28AX-TR
10.000000	20pF	XC1313CT-ND	1.35	1.24	1.02	675.00	ECS-100-20-28AX-TR
11.059200	20pF	XC1314CT-ND	1.35	1.24	1.02	675.00	ECS-110.5-20-28AX-TR
12.000000	Series	XC1316CT-ND	1.35	1.24	1.02	675.00	ECS-120-S-28AX-TR
12.000000	18pF	XC1315CT-ND	1.35	1.24	1.02	675.00	ECS-120-18-28AX-TR
12.000000	32pF	XC1317CT-ND	1.35	1.24	1.02	675.00	ECS-120-32-28AX-TR
12.288000	20pF	XC1318CT-ND	1.35	1.24	1.02	675.00	ECS-122.8-20-28AX-TR
14.318180	20pF	XC1319CT-ND	1.35	1.24	1.02	675.00	ECS-143-20-28AX-TR
14.745600	Series	XC1320CT-ND	1.35	1.24	1.02	675.00	ECS-147.4-S-28AX-TR
14.745600	20pF	XC1321CT-ND	1.35	1.24	1.02	675.00	ECS-147.4-20-28AX-TR
16.000000	Series	XC1323CT-ND	1.35	1.24	1.02	675.00	ECS-160-S-28AX-TR
16.000000	20pF	XC1322CT-ND	1.35	1.24	1.02	675.00	ECS-160-20-28AX-TR
18.432000	20pF	XC1324CT-ND	1.35	1.24	1.02	675.00	ECS-184-20-28AX-TR
20.000000	20pF	XC1325CT-ND	1.35	1.24	1.02	675.00	ECS-200-20-28AX-TR
24.000000	20pF	XC1326CT-ND	1.35	1.24	1.02	675.00	ECS-240-20-28AX-TR
25.000000	20pF	XC1327CT-ND	1.35	1.24	1.02	675.00	ECS-250-20-28AX-F-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

ECS INC. INTERNATIONAL ECX-3S Series Surface Mount Quartz Crystals

Electrical Characteristics:

- **Frequency Tolerance:** ±30ppm
- **Shunt Capacitance:** 7pF
- **Drive Level:** 100µW
- **Operating Temperature:** -10°C ~ 70°C
- **Storage Temperature:** -40°C ~ 85°C
- **Operating Mode:** Fundamental

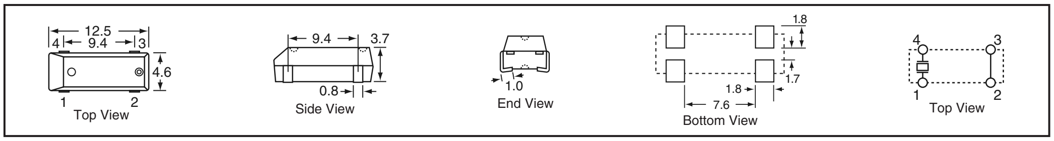

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel Pricing† 1,000	ECS Part No.
				ECX-3S			
3.579545	Series	XC529CT-ND	2.03	1.69	1.35	1012.50	ECS-35-S-7S-TR
3.579545	17pF	XC501CT-ND •	2.03	1.69	1.35	1012.50	ECS-35-17-7S-TR
3.686400	Series	XC502CT-ND •	2.03	1.69	1.35	1012.50	ECS-36-S-7S-TR
3.686400	20pF	XC503CT-ND •	2.03	1.69	1.35	1012.50	ECS-36-20-7S-TR
4.000000	Series	XC504CT-ND •	2.03	1.69	1.35	1012.50	ECS-40-S-7S-TR
4.000000	20pF	XC505CT-ND •	2.03	1.69	1.35	1012.50	ECS-40-20-7S-TR
4.096000	16pF	XC500CT-ND	2.03	1.69	1.35	1012.50	ECS-41-16-7S-TR
4.194304	12pF	XC530CT-ND	2.03	1.69	1.35	1012.50	ECS-42-12-7S-TR
4.433618	20pF	XC506CT-ND •	2.03	1.69	1.35	1012.50	ECS-44-20-7S-TR
4.915200	Series	XC507CT-ND •	2.03	1.69	1.35	1012.50	ECS-49-S-7S-TR
4.915200	20pF	XC508CT-ND •	2.03	1.69	1.35	1012.50	ECS-49-20-7S-TR
5.000000	20pF	XC499CT-ND	2.03	1.69	1.35	1012.50	ECS-50-20-7S-TR
6.000000	Series	XC497CT-ND	2.03	1.69	1.35	1012.50	ECS-60-S-7S-TR
6.000000	32pF	XC498CT-ND	2.03	1.69	1.35	1012.50	ECS-60-32-7S-TR
6.144000	320pF	XC509CT-ND •	2.03	1.69	1.35	1012.50	ECS-61-32-7S-TR
6.553600	12pF	XC496CT-ND	2.03	1.69	1.35	1012.50	ECS-65-12-7S-TR
7.372800	Series	XC510CT-ND •	2.03	1.69	1.35	1012.50	ECS-73-S-7S-TR
7.372800	20pF	XC536CT-ND	2.03	1.69	1.35	1012.50	ECS-73-20-7S-TR
8.000000	Series	XC511CT-ND •	2.03	1.69	1.35	1012.50	ECS-80-S-7S-TR
8.000000	16pF	XC495CT-ND	2.03	1.69	1.35	1012.50	ECS-80-16-7S-TR
9.830400	Series	XC512CT-ND •	2.03	1.69	1.35	1012.50	ECS-98.3-S-7S-TR
9.830400	20pF	XC513CT-ND •	2.03	1.69	1.35	1012.50	ECS-98.3-20-7S-TR
10.000000	Series	XC514CT-ND •	2.03	1.69	1.35	1012.50	ECS-100-S-7S-TR
11.059200	Series	XC515CT-ND •	2.03	1.69	1.35	1012.50	ECS-110.5-S-7S-TR
11.059200	20pF	XC516CT-ND	2.03	1.69	1.35	1012.50	ECS-110.5-20-7S-TR
12.000000	Series	XC517CT-ND •	2.03	1.69	1.35	1012.50	ECS-120-S-7S-TR
12.000000	18pF	XC548CT-ND	2.03	1.69	1.35	1012.50	ECS-120-18-7S-TR
12.000000	32pF	XC494CT-ND	2.03	1.69	1.35	1012.50	ECS-120-32-7S-TR
12.288000	Series	XC518CT-ND •	2.03	1.69	1.35	1012.50	ECS-122.8-S-7S-TR
12.288000	20pF	XC493CT-ND	2.03	1.69	1.35	1012.50	ECS-122.8-20-7S-TR
14.318180	Series	XC519CT-ND •	2.03	1.69	1.35	1012.50	ECS-143-S-7S-TR
14.318180	20pF	XC492CT-ND	2.03	1.69	1.35	1012.50	ECS-143-20-7S-TR
14.745600	Series	XC520CT-ND •	2.03	1.69	1.35	1012.50	ECS-147.4-S-7S-TR
14.745600	20pF	XC491CT-ND	2.03	1.69	1.35	1012.50	ECS-147.4-20-7S-TR
16.000000	Series	XC521CT-ND •	2.03	1.69	1.35	1012.50	ECS-160-S-7S-TR
16.000000	20pF	XC550CT-ND	2.03	1.69	1.35	1012.50	ECS-160-20-7S-TR
18.432000	Series	XC522CT-ND •	2.03	1.69	1.35	1012.50	ECS-184-S-7S-TR
19.660800	Series	XC523CT-ND •	2.03	1.69	1.35	1012.50	ECS-196.6-S-7S-TR
19.660800	20pF	XC490CT-ND	2.03	1.69	1.35	1012.50	ECS-196.6-20-7S-TR
20.000000	Series	XC524CT-ND •	2.03	1.69	1.35	1012.50	ECS-200-S-7S-TR
20.000000	16pF	XC489CT-ND	2.03	1.69	1.35	1012.50	ECS-200-16-7S-TR
20.000000	20pF	XC525CT-ND •	2.03	1.69	1.35	1012.50	ECS-200-20-7S-TR
23.592000	Series	XC559CT-ND	2.03	1.69	1.35	1012.50	ECS-235.92-S-7S-TR
24.000000	Series	XC526CT-ND •	2.03	1.69	1.35	1012.50	ECS-240-S-7S-TR
24.000000	16pF	XC528CT-ND	2.03	1.69	1.35	1012.50	ECS-240-16-7S-TR
24.000000	20pF	XC527CT-ND •	2.03	1.69	1.35	1012.50	ECS-240-20-7S-TR
				ECX-3SX — RoHS Compliant			
3.579545	Series	XC1229CT-ND	2.03	1.69	1.35	1013.00	ECS-35-S-7SX-TR
3.579545	17pF	XC1206CT-ND	2.03	1.69	1.35	1013.00	ECS-35-17-7SX-TR
3.686400	Series	XC1207CT-ND	2.03	1.69	1.35	1013.00	ECS-36-S-7SX-TR
3.686400	20pF	XC1208CT-ND	2.03	1.69	1.35	1013.00	ECS-36-20-7SX-TR
4.000000	Series	XC1209CT-ND	2.03	1.69	1.35	1013.00	ECS-40-S-7SX-TR
4.000000	20pF	XC1210CT-ND	2.03	1.69	1.35	1013.00	ECS-40-20-7SX-TR
4.096000	16pF	XC1205CT-ND	2.03	1.69	1.35	1013.00	ECS-41-16-7SX-TR
4.194304	12pF	XC1230CT-ND	2.03	1.69	1.35	1013.00	ECS-42-12-7SX-TR
4.915200	Series	XC1211CT-ND	2.03	1.69	1.35	1013.00	ECS-49-S-7SX-TR
4.915200	20pF	XC1212CT-ND	2.03	1.69	1.35	1013.00	ECS-49-20-7SX-TR
5.000000	20pF	XC1204CT-ND	2.03	1.69	1.35	1013.00	ECS-50-20-7SX-TR
6.000000	Series	XC1202CT-ND	2.03	1.69	1.35	1013.00	ECS-60-S-7SX-TR
6.000000	32pF	XC1203CT-ND	2.03	1.69	1.35	1125.00	ECS-60-32-7SX-TR
6.144000	32pF	XC1213CT-ND	2.03	1.69	1.35	1013.00	ECS-61-32-7SX-TR
6.553600	12pF	XC1201CT-ND	2.03	1.69	1.35	1013.00	ECS-65-12-7SX-TR
7.372800	Series	XC1214CT-ND	2.03	1.69	1.35	1013.00	ECS-73-S-7SX-TR
7.372800	20pF	XC1231CT-ND	2.03	1.69	1.35	1013.00	ECS-73-20-7SX-TR
8.000000	Series	XC1215CT-ND	2.03	1.69	1.35	1013.00	ECS-80-S-7SX-TR
8.000000	16pF	XC1200CT-ND	2.03	1.69	1.35	1013.00	ECS-80-16-7SX-TR
9.830400	20pF	XC1216CT-ND	2.03	1.69	1.35	1013.00	ECS-98.3-20-7SX-TR
10.000000	Series	XC1217CT-ND	2.03	1.69	1.35	1013.00	ECS-100-S-7SX-TR
11.059200	Series	XC1218CT-ND	2.03	1.69	1.35	1013.00	ECS-110.5-S-7SX-TR
11.059200	20pF	XC1219CT-ND	2.03	1.69	1.35	1013.00	ECS-110.5-20-7SX-TR
12.000000	Series	XC1220CT-ND	2.03	1.69	1.35	1013.00	ECS-120-S-7SX-TR
12.000000	18pF	XC1232CT-ND	2.03	1.69	1.35	1013.00	ECS-120-18-7SX-TR
12.288000	Series	XC1221CT-ND	2.03	1.69	1.35	1013.00	ECS-122.8-S-7SX-TR
12.288000	20pF	XC1199CT-ND	2.03	1.69	1.35	1013.00	ECS-122.8-20-7SX-TR
14.318180	Series	XC1222CT-ND	2.03	1.69	1.35	1013.00	ECS-143-S-7SX-TR
14.745600	Series	XC1223CT-ND	2.03	1.69	1.35	1013.00	ECS-147.4-S-7SX-TR
14.745600	20pF	XC1198CT-ND	2.03	1.69	1.35	1013.00	ECS-147.4-20-7SX-TR
16.000000	Series	XC1224CT-ND	2.03	1.69	1.35	1013.00	ECS-160-S-7SX-TR
16.000000	20pF	XC1233CT-ND	2.03	1.69	1.35	1013.00	ECS-160-20-7SX-TR
18.432000	Series	XC1225CT-ND	2.03	1.69	1.35	1013.00	ECS-184-S-7SX-TR
19.660800	20pF	XC1197CT-ND	2.03	1.69	1.35	1013.00	ECS-196.6-20-7SX-TR
20.000000	Series	XC1226CT-ND	2.03	1.69	1.35	1013.00	ECS-200-S-7SX-TR
20.000000	16pF	XC1196CT-ND	2.03	1.69	1.35	1013.00	ECS-200-16-7SX-TR
20.000000	20pF	XC1227CT-ND	2.03	1.69	1.35	1013.00	ECS-200-20-7SX-TR
24.000000	20pF	XC1228CT-ND	2.03	1.69	1.35	1013.00	ECS-240-20-7SX-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

- **XC-KIT-ND Digi-Key® SMT Low Profile Quartz Crystal Kit** 3 each of values denoted (78 total pieces). Notebook style storage case and bin storage guide included........ **$169.00**

Surface Mount Quartz Crystals

Fig. 1

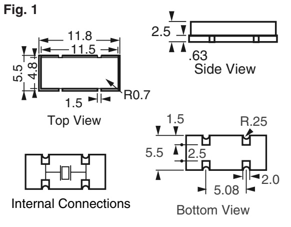

Fig. 2

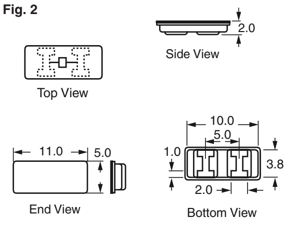

Fig. 3

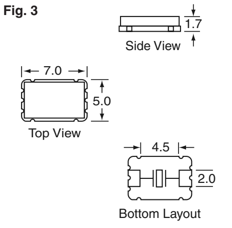

Fig. 4

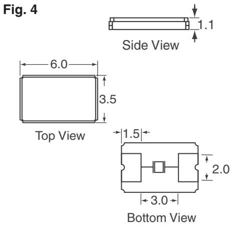

Fig.5

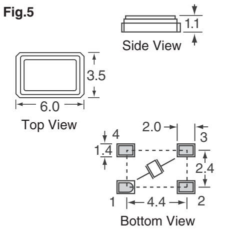

Fig.	Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
					CSM-12, -10°C ~ 70°C						
1	200	17pF	3.579545	XC584CT-ND	1.95	1.76	1.47	1.17	XC584TR-ND	975.00	ECS-35-17-18-TR
	200	Series	3.686400	XC585CT-ND	1.95	1.76	1.47	1.17	XC585TR-ND	975.00	ECS-36-S-18-TR
	200	20pF	3.686400	XC586CT-ND	1.95	1.76	1.47	1.17	XC586TR-ND	975.00	ECS-36-20-18-TR
	150	Series	4.000000	XC588CT-ND	1.95	1.76	1.47	1.17	XC588TR-ND	975.00	ECS-40-S-18-TR
	150	20pF	4.000000	XC587CT-ND	1.95	1.76	1.47	1.17	XC587TR-ND	975.00	ECS-40-20-18-TR
	150	Series	4.915200	XC590CT-ND	1.95	1.76	1.47	1.17	XC590TR-ND	975.00	ECS-49-S-18-TR
	150	20pF	4.915200	XC589CT-ND	1.95	1.76	1.47	1.17	XC589TR-ND	975.00	ECS-49-20-18-TR
	100	32pF	6.144000	XC591CT-ND	1.95	1.76	1.47	1.17	XC591TR-ND	975.00	ECS-61-32-18-TR
	100	Series	7.372800	XC592CT-ND	1.95	1.76	1.47	1.17	XC592TR-ND	975.00	ECS-73-S-18-TR
	100	Series	8.000000	XC593CT-ND	1.95	1.76	1.47	1.17	XC593TR-ND	975.00	ECS-80-S-18-TR

* 3rd Overtone † Bluetooth™ RF

(Continued)

Fig.	Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing	ECS Part No.
					1	10	100	500		1,000	
1	100	20pF	8.000000	XC1007CT-ND	1.95	1.76	1.47	1.17	XC1007TR-ND	975.00	ECS-80-20-18-TR
	100	Series	9.830400	XC594CT-ND	1.95	1.76	1.47	1.17	XC594TR-ND	975.00	ECS-98.3-S-18-TR
	100	20pF	9.830400	XC595CT-ND	1.95	1.76	1.47	1.17	XC595TR-ND	975.00	ECS-98.3-20-18-TR
	80	Series	10.000000	XC596CT-ND	1.95	1.76	1.47	1.17	XC596TR-ND	975.00	ECS-100-S-18-TR
	80	Series	11.059200	XC597CT-ND	1.95	1.76	1.47	1.17	XC597TR-ND	975.00	ECS-110.5-S-18-TR
	80	20pF	11.059200	XC598CT-ND	1.95	1.76	1.47	1.17	XC598TR-ND	975.00	ECS-110.5-20-18-TR
	80	Series	12.000000	XC599CT-ND	1.95	1.76	1.47	1.17	XC599TR-ND	975.00	ECS-120-S-18-TR
	50	Series	14.318180	XC600CT-ND	1.95	1.76	1.47	1.17	XC600TR-ND	975.00	ECS-143-S-18-TR
	50	20pF	14.318180	XC937CT-ND	1.95	1.76	1.47	1.17	XC937TR-ND	975.00	ECS-143-20-18-TR
	50	Series	16.000000	XC601CT-ND	1.95	1.76	1.47	1.17	XC601TR-ND	975.00	ECS-160-S-18-TR
	50	Series	18.432000	XC602CT-ND	1.95	1.76	1.47	1.17	XC602TR-ND	975.00	ECS-184-S-18-TR
	50	Series	19.660800	XC603CT-ND	1.95	1.76	1.47	1.17	XC603TR-ND	975.00	ECS-196.6-S-18-TR
	50	Series	20.000000	XC604CT-ND	1.95	1.76	1.47	1.17	XC604TR-ND	975.00	ECS-200-S-18-TR
	50	20pF	20.000000	XC605CT-ND	1.95	1.76	1.47	1.17	XC605TR-ND	975.00	ECS-200-20-18-TR
	50	16pF	24.000000	XC607CT-ND	1.95	1.76	1.47	1.17	XC607TR-ND	975.00	ECS-240-16-18-TR
	50	20pF	24.000000	XC606CT-ND	1.95	1.76	1.47	1.17	XC606TR-ND	975.00	ECS-240-20-18-TR
ECX-19A, -10°C ~ 70°C											
2	200	17pF	3.579545	XC850CT-ND	3.30	2.97	2.48	1.98	XC850TR-ND	1650.00	ECS-35-17-19A-TR
	200	20pF	3.686400	XC851CT-ND	3.30	2.97	2.48	1.98	XC851TR-ND	1650.00	ECS-36-20-19A-TR
	150	20pF	4.000000	XC852CT-ND	3.30	2.97	2.48	1.98	XC852TR-ND	1650.00	ECS-40-20-19A-TR
	150	20pF	4.915200	XC853CT-ND	3.30	2.97	2.48	1.98	XC853TR-ND	1650.00	ECS-49-20-19A-TR
	100	32pF	6.144000	XC854CT-ND	3.30	2.97	2.48	1.98	XC854TR-ND	1650.00	ECS-61-32-19A-TR
	100	20pF	7.372800	XC855CT-ND	3.30	2.97	2.48	1.98	XC855TR-ND	1650.00	ECS-73-20-19A-TR
	100	20pF	8.000000	XC856CT-ND	3.30	2.97	2.48	1.98	XC856TR-ND	1650.00	ECS-80-20-19A-TR
	100	20pF	9.830400	XC857CT-ND	3.30	2.97	2.48	1.98	XC857TR-ND	1650.00	ECS-98.3-20-19A-TR
	80	Series	10.000000	XC858CT-ND	3.30	2.97	2.48	1.98	XC858TR-ND	1650.00	ECS-100-S-19A-TR
	80	20pF	11.059200	XC859CT-ND	3.30	2.97	2.48	1.98	XC859TR-ND	1650.00	ECS-110.5-20-19A-TR
	80	Series	12.000000	XC860CT-ND	3.30	2.97	2.48	1.98	XC860TR-ND	1650.00	ECS-120-S-19A-TR
	80	20pF	12.000000	XC861CT-ND	3.30	2.97	2.48	1.98	XC861TR-ND	1650.00	ECS-120-20-19A-TR
	50	Series	14.318180	XC862CT-ND	3.30	2.97	2.48	1.98	XC862TR-ND	1650.00	ECS-143-S-19A-TR
	50	20pF	14.318180	XC863CT-ND	3.30	2.97	2.48	1.98	XC863TR-ND	1650.00	ECS-143-20-19A-TR
	50	Series	16.000000	XC864CT-ND	3.30	2.97	2.48	1.98	XC864TR-ND	1650.00	ECS-160-S-19A-TR
	50	Series	18.432000	XC865CT-ND	3.30	2.97	2.48	1.98	XC865TR-ND	1650.00	ECS-184-S-19A-TR
	50	Series	19.660800	XC866CT-ND	3.30	2.97	2.48	1.98	XC866TR-ND	1650.00	ECS-196.6-S-19A-TR
	50	Series	20.000000	XC867CT-ND	3.30	2.97	2.48	1.98	XC867TR-ND	1650.00	ECS-200-S-19A-TR
	50	20pF	20.000000	XC868CT-ND	3.30	2.97	2.48	1.98	XC868TR-ND	1650.00	ECS-200-20-19A-TR
	50	Series	24.000000	XC870CT-ND	3.30	2.97	2.48	1.98	XC870TR-ND	1650.00	ECS-240-S-19A-TR
	50	20pF	24.000000	XC869CT-ND	3.30	2.97	2.48	1.98	XC869TR-ND	1650.00	ECS-240-20-19A-TR
CSM-8, -10°C ~ 70°C											
3	60	20pF	8.000000	XC1010CT-ND	3.30	2.97	2.48	1.98	XC1010TR-ND	1650.00	ECS-80-20-20A-TR
	60	Series	9.830400	XC608CT-ND	3.30	2.97	2.48	1.98	XC608TR-ND	1650.00	ECS-98.3-S-20A-TR
	60	20pF	9.830400	XC609CT-ND	3.30	2.97	2.48	1.98	XC609TR-ND	1650.00	ECS-98.3-20-20A-TR
	60	Series	10.000000	XC610CT-ND	3.30	2.97	2.48	1.98	XC610TR-ND	1650.00	ECS-100-S-20A-TR
	60	Series	11.059200	XC611CT-ND	3.30	2.97	2.48	1.98	XC611TR-ND	1650.00	ECS-110.5-S-20A-TR
	60	20pF	11.059200	XC612CT-ND	3.30	2.97	2.48	1.98	XC612TR-ND	1650.00	ECS-110.5-20-20A-TR
	60	Series	12.000000	XC613CT-ND	3.30	2.97	2.48	1.98	XC613TR-ND	1650.00	ECS-120-S-20A-TR
	60	20pF	12.000000	XC1011CT-ND	3.30	2.97	2.48	1.98	XC1011TR-ND	1650.00	ECS-120-20-20A-TR
	60	20pF	12.288000	XC1012CT-ND	3.30	2.97	2.48	1.98	XC1012TR-ND	1650.00	ECS-122.8-20-20A-TR
	60	Series	14.318180	XC614CT-ND	3.30	2.97	2.48	1.98	XC614TR-ND	1650.00	ECS-143-S-20A-TR
	60	20pF	14.318180	XC938CT-ND	3.30	2.97	2.48	1.98	XC938TR-ND	1650.00	ECS-143-20-20A-TR
	60	Series	14.745600	XC615CT-ND	3.30	2.97	2.48	1.98	XC615TR-ND	1650.00	ECS-147.4-S-20A-TR
	40	Series	16.000000	XC616CT-ND	3.30	2.97	2.48	1.98	XC616TR-ND	1650.00	ECS-160-S-20A-TR
	40	20pF	16.000000	XC939CT-ND	3.30	2.97	2.48	1.98	XC939TR-ND	1650.00	ECS-160-20-20A-TR
	40	Series	18.432000	XC617CT-ND	3.30	2.97	2.48	1.98	XC617TR-ND	1650.00	ECS-184-S-20A-TR
	40	Series	19.660800	XC618CT-ND	3.30	2.97	2.48	1.98	XC618TR-ND	1650.00	ECS-196.6-S-20A-TR
	40	Series	20.000000	XC619CT-ND	3.30	2.97	2.48	1.98	XC619TR-ND	1650.00	ECS-200-S-20A-TR
	40	20pF	20.000000	XC620CT-ND	3.30	2.97	2.48	1.98	XC620TR-ND	1650.00	ECS-200-20-20A-TR
	40	Series	24.000000	XC621CT-ND	3.30	2.97	2.48	1.98	XC621TR-ND	1650.00	ECS-240-S-20A-TR
	40	12pF	24.000000	XC1009CT-ND	3.30	2.97	2.48	1.98	XC1009TR-ND	1650.00	ECS-240-12-20A-TR
	40	20pF	24.000000	XC622CT-ND	3.30	2.97	2.48	1.98	XC622TR-ND	1650.00	ECS-240-20-20A-TR
	40	Series	24.000140	XC623CT-ND	3.30	2.97	2.48	1.98	XC623TR-ND	1650.00	ECS-240.0014S20A-TR
	40	Series	30.000000	XC630CT-ND	3.30	2.97	2.48	1.98	XC630TR-ND	1650.00	ECS-300-S-20A-F-TR
	80	Series	30.000000	XC624CT-ND*	3.30	2.97	2.48	1.98	XC624TR-ND*	1650.00	ECS-300-S-20A-TR
	40	Series	32.000000	XC631CT-ND	3.30	2.97	2.48	1.98	XC631TR-ND	1650.00	ECS-320-S-20A-F-TR
	80	Series	32.000000	XC625CT-ND*	3.30	2.97	2.48	1.98	XC625TR-ND*	1650.00	ECS-320-S-20A-TR
	80	Series	33.000000	XC626CT-ND*	3.30	2.97	2.48	1.98	XC626TR-ND*	1650.00	ECS-330-S-20A-TR
	40	Series	35.251200	XC632CT-ND	3.30	2.97	2.48	1.98	XC632TR-ND	1650.00	ECS-352.512-S20AF-TR
	40	Series	36.000000	XC633CT-ND	3.30	2.97	2.48	1.98	XC633TR-ND	1650.00	ECS-360-S-20A-F-TR
	80	Series	36.000000	XC627CT-ND*	3.30	2.97	2.48	1.98	XC627TR-ND*	1650.00	ECS-360-S-20A-TR
	40	Series	40.000000	XC634CT-ND	3.30	2.97	2.48	1.98	XC634TR-ND	1650.00	ECS-400-S-20A-F-TR
	80	Series	40.000000	XC628CT-ND*	3.30	2.97	2.48	1.98	XC628TR-ND*	1650.00	ECS-400-S-20A-TR
	80	Series	40.320000	XC629CT-ND*	3.30	2.97	2.48	1.98	XC629TR-ND*	1650.00	ECS-403.2-S-20A-TR
	80	20pF	48.000000	XC940CT-ND	3.30	2.97	2.48	1.98	XC940TR-ND	1650.00	ECS-480-20-20A-TR
ECX-64A-EN Industrial Temperature, -40°C ~ 85°C, ±50ppm											
4	80	Series	14.318180	XC980CT-ND	2.94	2.65	2.21	1.77	XC980TR-ND	1470.00	ECS-143-S-23A-EN-TR
	80	20pF	14.318180	XC979CT-ND	2.94	2.65	2.21	1.77	XC979TR-ND	1470.00	ECS-143-20-23A-EN-TR
	80	20pF	14.745600	XC981CT-ND	2.94	2.65	2.21	1.77	XC981TR-ND	1470.00	ECS-147-20-23A-EN-TR
	60	Series	16.000000	XC983CT-ND	2.94	2.65	2.21	1.77	XC983TR-ND	1470.00	ECS-160-S-23A-EN-TR
	60	20pF	16.000000	XC982CT-ND	2.94	2.65	2.21	1.77	XC982TR-ND	1470.00	ECS-160-20-23A-EN-TR
	60	Series	18.432000	XC985CT-ND	2.94	2.65	2.21	1.77	XC985TR-ND	1470.00	ECS-184-S-23A-EN-TR
	60	20pF	18.432000	XC984CT-ND	2.94	2.65	2.21	1.77	XC984TR-ND	1470.00	ECS-184-20-23A-EN-TR
	60	Series	19.660800	XC987CT-ND	2.94	2.65	2.21	1.77	XC987TR-ND	1470.00	ECS-196-S-23A-EN-TR
	60	20pF	19.660800	XC986CT-ND	2.94	2.65	2.21	1.77	XC986TR-ND	1470.00	ECS-196-20-23A-EN-TR
	40	Series	20.000000	XC989CT-ND	2.94	2.65	2.21	1.77	XC989TR-ND	1470.00	ECS-200-S-23A-EN-TR
	40	20pF	20.000000	XC988CT-ND	2.94	2.65	2.21	1.77	XC988TR-ND	1470.00	ECS-200-20-23A-EN-TR
	40	Series	24.000000	XC991CT-ND	2.94	2.65	2.21	1.77	XC991TR-ND	1470.00	ECS-240-S-23A-EN-TR
	40	20pF	24.000000	XC990CT-ND	2.94	2.65	2.21	1.77	XC990TR-ND	1470.00	ECS-240-20-23A-EN-TR

* 3rd Overtone   † Bluetooth™ RF

(Continued)

Fig.	Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
					ECX-64A, -10°C ~ 70°C, ±50ppm						
4	80	Series	14.31818	XC822CT-ND	3.30	2.97	2.48	1.98	XC822TR-ND	1650.00	ECS-143-S-23A-TR
	80	20pF	14.31818	XC821CT-ND	3.30	2.97	2.48	1.98	XC821TR-ND	1650.00	ECS-143-20-23A-TR
	80	20pF	14.74560	XC823CT-ND	3.30	2.97	2.48	1.98	XC823TR-ND	1650.00	ECS-147-20-23A-TR
	60	Series	16.00000	XC825CT-ND	3.30	2.97	2.48	1.98	XC825TR-ND	1650.00	ECS-160-S-23A-TR
	60	20pF	16.00000	XC824CT-ND	3.30	2.97	2.48	1.98	XC824TR-ND	1650.00	ECS-160-20-23A-TR
	60	Series	18.43200	XC827CT-ND	3.30	2.97	2.48	1.98	XC827TR-ND	1650.00	ECS-184-S-23A-TR
	60	20pF	18.43200	XC826CT-ND	3.30	2.97	2.48	1.98	XC826TR-ND	1650.00	ECS-184-20-23A-TR
	60	Series	19.66080	XC829CT-ND	3.30	2.97	2.48	1.98	XC829TR-ND	1650.00	ECS-196-S-23A-TR
	60	20pF	19.66080	XC828CT-ND	3.30	2.97	2.48	1.98	XC828TR-ND	1650.00	ECS-196-20-23A-TR
	40	Series	20.00000	XC831CT-ND	3.30	2.97	2.48	1.98	XC831TR-ND	1650.00	ECS-200-S-23A-TR
	40	20pF	20.00000	XC830CT-ND	3.30	2.97	2.48	1.98	XC830TR-ND	1650.00	ECS-200-20-23A-TR
	40	Series	24.00000	XC832CT-ND	3.30	2.97	2.48	1.98	XC832TR-ND	1650.00	ECS-240-S-23A-TR
					ECX-64B, -10°C ~ 70°C, ±50ppm						
5	80	9pF	12.00000	XC1022CT-ND†	1.95	1.76	1.47	1.17	XC1022TR-ND†	975.00	ECS-120-CD-0330-TR
	80	20pF	12.00000	XC1013CT-ND	3.75	3.38	2.82	2.25	XC1013TR-ND	1875.00	ECS-120-20-23B-TR
	80	Series	14.31818	XC810CT-ND	3.75	3.38	2.82	2.25	XC810TR-ND	1875.00	ECS-143-S-2 3B-TR
	80	20pF	14.31818	XC809CT-ND	3.75	3.38	2.82	2.25	XC809TR-ND	1875.00	ECS-143-20-23B-TR
	80	20pF	14.74560	XC811CT-ND	3.75	3.38	2.82	2.25	XC811TR-ND	1875.00	ECS-147-20-23B-TR
	60	Series	16.00000	XC813CT-ND	3.75	3.38	2.82	2.25	XC813TR-ND	1875.00	ECS-160-S-23B-TR
	60	20pF	16.00000	XC812CT-ND	3.75	3.38	2.82	2.25	XC812TR-ND	1875.00	ECS-160-20-23B-TR
	60	Series	18.43200	XC815CT-ND	3.75	3.38	2.82	2.25	XC815TR-ND	1875.00	ECS-184-S-23B-TR
	60	20pF	18.43200	XC814CT-ND	3.75	3.38	2.82	2.25	XC814TR-ND	1875.00	ECS-184-20-23B-TR
	60	Series	19.66080	XC817CT-ND	3.75	3.38	2.82	2.25	XC817TR-ND	1875.00	ECS-196-S-23B-TR
	60	20pF	19.66080	XC816CT-ND	3.75	3.38	2.82	2.25	XC816TR-ND	1875.00	ECS-196-20-23B-TR
	40	Series	20.00000	XC819CT-ND	3.75	3.38	2.82	2.25	XC819TR-ND	1875.00	ECS-200-S-23B-TR
	40	20pF	20.00000	XC818CT-ND	3.75	3.38	2.82	2.25	XC818TR-ND	1875.00	ECS-200-20-23B-TR
	40	Series	24.00000	XC820CT-ND	3.75	3.38	2.82	2.25	XC820TR-ND	1875.00	ECS-240-S-23B-TR
	40	20pF	24.00000	XC1014CT-ND	3.75	3.38	2.82	2.25	XC1014TR-ND	1875.00	ECS-240-20-23B-TR
	40	18pF	25.00000	XC1015CT-ND	3.75	3.38	2.82	2.25	XC1015TR-ND	1875.00	ECS-250-18-23B-F-TR

* 3rd Overtone † Bluetooth™ RF

Subminiature Surface Mount Quartz Crystals

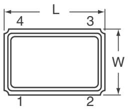

Top View

Side View

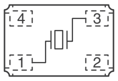

Top View

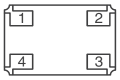

Bottom View

Series	Dimensions (mm) L	W	H
ECX-53B	5.0	3.2	0.85
ECX-42	4.0	2.5	0.80
ECX-32	3.2	2.5	0.70
ECX-2236	2.5	2.0	0.55
ECX-1637	2.0	1.6	0.45

Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
			ECX-53B-DU Automotive Temperature Range, -55°C ~ 125°C, 5.0 x 3.2 x .85mm							
80	20pF	10.000000	XC1510CT-ND	1.77	1.60	1.33	1.07	XC1510TR-ND	885.00	ECS-100-20-30B-DU
80	20pF	12.000000	XC1511CT-ND	1.77	1.60	1.33	1.07	XC1511TR-ND	885.00	ECS-120-20-30B-DU
80	20pF	14.318180	XC1512CT-ND	1.77	1.60	1.33	1.07	XC1512TR-ND	885.00	ECS-143-20-30B-DU
60	20pF	16.000000	XC1513CT-ND	1.77	1.60	1.33	1.07	XC1513TR-ND	885.00	ECS-160-20-30B-DU
40	20pF	20.000000	XC1514CT-ND	1.77	1.60	1.33	1.07	XC1514TR-ND	885.00	ECS-200-20-30B-DU
30	20pF	24.000000	XC1515CT-ND	1.77	1.60	1.33	1.07	XC1515TR-ND	885.00	ECS-240-20-30B-DU
30	20pF	25.000000	XC1516CT-ND	1.77	1.60	1.33	1.07	XC1516TR-ND	885.00	ECS-250-20-30B-DU
30	20pF	27.000000	XC1517CT-ND	1.77	1.60	1.33	1.07	XC1517TR-ND	885.00	ECS-270-20-30B-DU
30	20pF	30.000000	XC1518CT-ND	1.77	1.60	1.33	1.07	XC1518TR-ND	885.00	ECS-300-20-30B-DU
30	20pF	32.000000	XC1519CT-ND	1.77	1.60	1.33	1.07	XC1519TR-ND	885.00	ECS-320-20-30B-DU
30	20pF	40.000000	XC1520CT-ND	2.07	1.87	1.56	1.25	XC1520TR-ND	1035.00	ECS-400-20-30B-DU
30	20pF	48.000000	XC1521CT-ND	2.37	2.14	1.78	1.43	XC1521TR-ND	1185.00	ECS-480-20-30B-DU
			ECX-53B, -20°C ~ 70°C, ±50ppm, 5.0 x 3.2 x .85mm							
80	20pF	10.000000	XC1117CT-ND	1.77	1.60	1.33	1.07	XC1117TR-ND	885.00	ECS-100-20-30B-TR
80	20pF	12.000000	XC1118CT-ND	1.77	1.60	1.33	1.07	XC1118TR-ND	885.00	ECS-120-20-30B-TR
80	20pF	14.318180	XC1119CT-ND	1.77	1.60	1.33	1.07	XC1119TR-ND	885.00	ECS-143-20-30B-TR
60	20pF	16.000000	XC1120CT-ND	1.77	1.60	1.33	1.07	XC1120TR-ND	885.00	ECS-160-20-30B-TR
50	20pF	20.000000	XC1121CT-ND	1.77	1.60	1.33	1.07	XC1121TR-ND	885.00	ECS-200-20-30B-TR
50	20pF	24.000000	XC1122CT-ND	1.77	1.60	1.33	1.07	XC1122TR-ND	885.00	ECS-240-20-30B-TR
50	20pF	24.576000	XC1123CT-ND	1.77	1.60	1.33	1.07	XC1123TR-ND	885.00	ECS-245-20-30B-TR
50	20pF	25.000000	XC1124CT-ND	1.77	1.60	1.33	1.07	XC1124TR-ND	885.00	ECS-250-20-30B-TR
50	Series	27.000000	XC1126CT-ND	2.07	1.87	1.56	1.25	XC1126TR-ND	1035.00	ECS-270-S-30B-TR
50	20pF	27.000000	XC1125CT-ND	1.77	1.60	1.33	1.07	XC1125TR-ND	885.00	ECS-270-20-30B-TR
50	Series	30.000000	XC1128CT-ND	2.07	1.87	1.56	1.25	XC1128TR-ND	1035.00	ECS-300-S-30B-TR
50	20pF	32.000000	XC1129CT-ND	2.07	1.87	1.56	1.25	XC1129TR-ND	1035.00	ECS-320-20-30B-TR
50	Series	36.000000	XC1132CT-ND	2.07	1.87	1.56	1.25	XC1132TR-ND	1035.00	ECS-360-S-30B-TR
50	20pF	36.000000	XC1131CT-ND	2.07	1.87	1.56	1.25	XC1131TR-ND	1035.00	ECS-360-20-30B-TR
50	20pF	40.000000	XC1133CT-ND	2.37	2.14	1.78	1.43	XC1133TR-ND	1185.00	ECS-400-20-30B-TR
50	20pF	50.000000	XC1135CT-ND	2.37	2.14	1.78	1.43	XC1135TR-ND	1185.00	ECS-500-20-30B-TR
			ECX-42 For Bluetooth™ and Zigbee Applications, ±10/±10, -20°C ~ 70°C, 4.0 x 2.5 x .80mm							
80	9pF	12.000000	XC1608CT-ND	1.65	1.49	1.24	.99	XC1608TR-ND	825.00	ECS-120-9-42-CKM-TR
80	9pF	13.000000	XC1609CT-ND	1.65	1.49	1.24	.99	XC1609TR-ND	825.00	ECS-130-9-42-CKM-TR
80	9pF	14.400000	XC1610CT-ND	1.65	1.49	1.24	.99	XC1610TR-ND	825.00	ECS-144-9-42-CKM-TR
80	9pF	16.000000	XC1611CT-ND	1.65	1.49	1.24	.99	XC1611TR-ND	825.00	ECS-160-9-42-CKM-TR
80	9pF	19.680000	XC1612CT-ND	1.65	1.49	1.24	.99	XC1612TR-ND	825.00	ECS-196.8-9-42-CKM-TR
60	13pF	24.000000	XC1613CT-ND	1.65	1.49	1.24	.99	XC1613TR-ND	825.00	ECS-240-13-42-CKM-TR
60	13pF	26.000000	XC1614CT-ND	1.65	1.49	1.24	.99	XC1614TR-ND	825.00	ECS-260-13-42-CKM-TR
60	13pF	32.000000	XC1615CT-ND	1.74	1.57	1.31	1.05	XC1615TR-ND	870.00	ECS-320-13-42-CKM-TR

(Continued)

Subminiature Surface Mount Crystals *(Cont.)*

Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
				1	10	100	500			
ECX-32, -20°C ~ 70°C, ±50ppm, 3.2 x 2.5 x .70mm										
100	20pF	16.000000	XC1137CT-ND	3.57	3.22	2.68	2.15	XC1137TR-ND	1785.00	ECS-160-20-33-TR
100	20pF	18.432000	XC1138CT-ND	3.57	3.22	2.68	2.15	XC1138TR-ND	1785.00	ECS-184-20-33-TR
100	20pF	19.660800	XC1139CT-ND	3.57	3.22	2.68	2.15	XC1139TR-ND	1785.00	ECS-196-20-33-TR
100	20pF	20.000000	XC1140CT-ND	3.57	3.22	2.68	2.15	XC1140TR-ND	1785.00	ECS-200-20-33-TR
100	20pF	24.000000	XC1141CT-ND	3.57	3.22	2.68	2.15	XC1141TR-ND	1785.00	ECS-240-20-33-TR
100	20pF	25.000000	XC1142CT-ND	3.57	3.22	2.68	2.15	XC1142TR-ND	1785.00	ECS-250-20-33-TR
100	20pF	27.000000	XC1143CT-ND	3.57	3.22	2.68	2.15	XC1143TR-ND	1785.00	ECS-270-20-33-TR
50	Series	30.000000	XC1145CT-ND	3.57	3.22	2.68	2.15	XC1145TR-ND	1785.00	ECS-300-S-33-TR
50	20pF	30.000000	XC1144CT-ND	3.57	3.22	2.68	2.15	XC1144TR-ND	1785.00	ECS-300-20-33-TR
50	Series	32.000000	XC1147CT-ND	3.57	3.22	2.68	2.15	XC1147TR-ND	1785.00	ECS-320-S-33-TR
50	20pF	32.000000	XC1146CT-ND	3.57	3.22	2.68	2.15	XC1146TR-ND	1785.00	ECS-320-20-33-TR
50	Series	36.000000	XC1149CT-ND	3.57	3.22	2.68	2.15	XC1149TR-ND	1785.00	ECS-360-S-33-TR
50	20pF	36.000000	XC1148CT-ND	3.57	3.22	2.68	2.15	XC1148TR-ND	1785.00	ECS-360-20-33-TR
50	Series	40.000000	XC1151CT-ND	3.57	3.22	2.68	2.15	XC1151TR-ND	1785.00	ECS-400-S-33-TR
50	20pF	40.000000	XC1150CT-ND	3.57	3.22	2.68	2.15	XC1150TR-ND	1785.00	ECS-400-20-33-TR
50	Series	48.000000	XC1153CT-ND	3.57	3.22	2.68	2.15	XC1153TR-ND	1785.00	ECS-480-S-33-TR
50	20pF	48.000000	XC1152CT-ND	3.57	3.22	2.68	2.15	XC1152TR-ND	1785.00	ECS-480-20-33-TR
ECX-2236 for Bluetooth™ and Zigbee Applications, ±10/±10, -20°C ~ 70°C, 2.5 x 2.0 x .55mm										
100	8pF	16.000000	XC1552CT-ND	3.45	3.11	2.59	2.07	XC1552TR-ND	1725.00	ECS-160-8-36CKM
100	8pF	18.432000	XC1553CT-ND	3.45	3.11	2.59	2.07	XC1553TR-ND	1725.00	ECS-184-8-36CKM
100	8pF	19.200000	XC1554CT-ND	3.45	3.11	2.59	2.07	XC1554TR-ND	1725.00	ECS-192-8-36CKM
100	8pF	19.660800	XC1555CT-ND	3.45	3.11	2.59	2.07	XC1555TR-ND	1725.00	ECS-196-8-36CKM
100	8pF	20.000000	XC1556CT-ND	3.45	3.11	2.59	2.07	XC1556TR-ND	1725.00	ECS-200-8-36CKM
100	8pF	24.000000	XC1557CT-ND	3.45	3.11	2.59	2.07	XC1557TR-ND	1725.00	ECS-240-8-36CKM
100	8pF	24.576000	XC1558CT-ND	3.45	3.11	2.59	2.07	XC1558TR-ND	1725.00	ECS-245.7-8-36CKM
100	8pF	25.000000	XC1559CT-ND	3.45	3.11	2.59	2.07	XC1559TR-ND	1725.00	ECS-250-8-36CKM
100	8pF	26.000000	XC1560CT-ND	3.45	3.11	2.59	2.07	XC1560TR-ND	1725.00	ECS-260-8-36CKM
100	8pF	27.000000	XC1561CT-ND	3.45	3.11	2.59	2.07	XC1561TR-ND	1725.00	ECS-270-8-36CKM
100	8pF	30.000000	XC1562CT-ND	3.45	3.11	2.59	2.07	XC1562TR-ND	1725.00	ECS-300-8-36CKM
100	8pF	32.000000	XC1563CT-ND	3.45	3.11	2.59	2.07	XC1563TR-ND	1725.00	ECS-320-8-36CKM
100	8pF	36.000000	XC1564CT-ND	3.45	3.11	2.59	2.07	XC1564TR-ND	1725.00	ECS-360-8-36CKM
100	8pF	40.000000	XC1565CT-ND	3.45	3.11	2.59	2.07	XC1565TR-ND	1725.00	ECS-400-8-36CKM
100	8pF	48.000000	XC1566CT-ND	3.45	3.11	2.59	2.07	XC1566TR-ND	1725.00	ECS-480-8-36CKM
100	8pF	80.000000	XC1567CT-ND	5.37	4.84	4.03	3.23	XC1567TR-ND	2685.00	ECS-800-8-36CKM
ECX-1637 for Bluetooth™ and Zigbee Applications, ±10/±10, -20°C ~ 70°C, 2.0 x 1.6 x .45mm										
100	8pF	24.000000	XC1543CT-ND	3.87	3.49	2.91	2.33	XC1543TR-ND	1935.00	ECS-240-8-37CKM
100	8pF	26.000000	XC1545CT-ND	3.87	3.49	2.91	2.33	XC1545TR-ND	1935.00	ECS-260-8-37CKM
100	8pF	27.000000	XC1546CT-ND	3.87	3.49	2.91	2.33	XC1546TR-ND	1935.00	ECS-270-8-37CKM
100	8pF	32.000000	XC1547CT-ND	3.87	3.49	2.91	2.33	XC1547TR-ND	1935.00	ECS-320-8-37CKM
100	8pF	40.000000	XC1549CT-ND	3.87	3.49	2.91	2.33	XC1549TR-ND	1935.00	ECS-400-8-37CKM

32.768kHz Crystals and Oscillators

Fig. 1

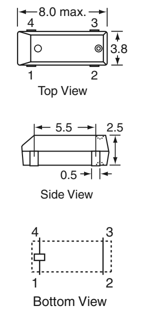

Fig. 2

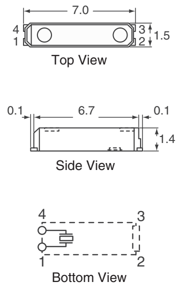

Fig. 3

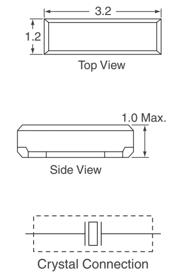

Fig. 4

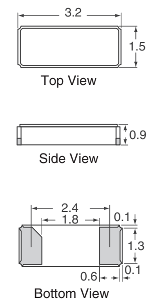

Fig. 5

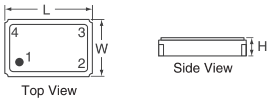

Dimensions (mm)			
Man. Part Number	**L**	**W**	**H**
ECS-327SMO	6.5	4.0	2.0
ECS-327KO	4.0	2.5	0.8

Pin Connection	
1	Tri-State
2	Ground
3	Output
4	VDD

Fig. 6

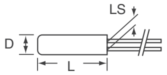

Dimensions (mm)			
Man. Part Number	**L**	**D**	**LS**
ECS-3X8 **ECS-3X8X**	8.2	3.1	1.1
ECS-.327-12.5-13 **ECS-.327-12.5-13X**	6.2	2.1	0.7
ECS-.327-8-14 **ECS-.327-8-14X**	5.1	1.5	0.45

Fig.	ESR Maximum (Ω)	Load Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		ECS Part No.
				1	10	100		Qty.	Pricing	
Surface Mount Crystals										
1	50k	6.0	XC746CT-ND	1.08	.90	.72	XC746TR-ND	3,000	560.00/M	ECS-.327-6-17-TR
	50k	6.0	XC1307CT-ND◆	1.08	.90	.72	XC1307TR-ND◆	3,000	560.00/M	ECS-.327-6-17X-TR
	50k	12.5	XC488CT-ND	1.08	.90	.72	XC488TR-ND	3,000	560.00/M	ECS-.327-12.5-17-TR
	50k	12.5	XC1195CT-ND◆	1.08	.90	.72	XC1195TR-ND◆	3,000	560.00/M	ECS-.327-12.5-17X-TR
2	65k	12.5	XC1616CT-ND◆	1.32	1.19	.99	XC1616TR-ND◆	3,000	660.00/M	ECS-.327-12.5-38
3	50k	12.5	XC1085CT-ND◆	4.47	4.03	3.36	—	—	—	ECS-.327-12.5-32-TR
4	70k	12.5	XC1617CT-ND◆	1.77	1.60	1.33	XC1617TR-ND◆	3,000	885.00/M	ECS-.327-12.5-34B
Surface Mount Oscillators — RoHS Compliant										
5	—	—	XC777CT-ND	6.74	5.52	4.90	XC777TR-ND	2,000	3430.00/M	ECS-327SMO-TR
	—	—	XC1489CT-ND	8.97	8.08	6.73	XC1489TR-ND	1,000	4485.00	ECS-327KO-TR
Cylinder Type Crystals										
6	35k	12.5	X801-ND†	.30	.27	.22	—	—	—	ECS-3X8
	35k	12.5	X1123-ND†◆	.30	.27	.22	—	—	—	ECS-3X8X
	35k	12.5	X802-ND†	.30	.27	.22	—	—	—	ECS-.327-12.5-13
	35k	12.5	X1124-ND†◆	.30	.27	.22	—	—	—	ECS-.327-12.5-13X
	40k	8.0	X803-ND†	2.63	2.37	1.89	—	—	—	ECS-.327-8-14
	40k	8.0	X1125-ND†◆	.63	.57	.45	—	—	—	ECS-.327-8-14X

◆ ***RoHS Compliant*** † Bulk

ECS INC. INTERNATIONAL Quartz Crystals — ECS-31 Series

Specifications:
• **Frequency Tolerance:** ±30ppm @ 25°C • **Temperature Coefficient:** 0.034ppm/°C • **Operating Temperature:** -10°C ~ 60°C • **Storage Temperature:** -40°C ~ 85°C • **Equivalent Series Resistance (ESR):** 30kΩ ~ 50kΩ Maximum • **Shunt Capacitance:** .8pF ~ 1.7pF • **Drive Level:** 1µW Maximum • **Insulation Resistance:** 500MΩ Minimum/DC 100V ±15V • **Aging (First Year):** ±5ppm Maximum @25°C ±3°C

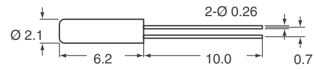

Frequency (kHz)	Load Capacitance	Digi-Key Part No.	Price Each				ECS Part No.
			1	10	100	500	
		ECS-31					
32.000	12.5pF	XC972-ND	.83	.75	.60	.53	ECS-.320-12.5-13
40.000	12.5pF	XC973-ND	.83	.75	.60	.53	ECS-.400-12.5-13
60.000	12.5pF	XC974-ND	.83	.75	.60	.53	ECS-.600-12.5-13
65.536	12.5pF	XC975-ND	.83	.75	.60	.53	ECS-.655-12.5-13
75.000	12.5pF	XC976-ND	.83	.75	.60	.53	ECS-.750-12.5-13
100.000	12.5pF	XC977-ND	.83	.75	.60	.53	ECS-1.00-12.5-13
125.000	12.5pF	XC999-ND	.83	.75	.60	.53	ECS-1.25-12.5-13
153.600	12.5pF	XC978-ND	.83	.75	.60	.53	ECS-1.536-12.5-13
		ECS-31X — RoHS Compliant					
32.000	12.5pF	XC1392-ND	.83	.75	.60	.53	ECS-.320-12.5-13X
65.536	12.5pF	XC1393-ND	.83	.75	.60	.53	ECS-.655-12.5-13X
100.000	12.5pF	XC1394-ND	.83	.75	.60	.53	ECS-1.00-12.5-13X
153.600	12.5pF	XC1395-ND	.83	.75	.60	.53	ECS-1.536-12.5-13X

Quartz Crystals — High Frequency Miniature

Specifications: • **Frequency Tolerance:** ±50ppm @ 25°C and over Operating Temperature • **Operating Temperature:** -10°C ~ 60°C • **Storage Temperature:** -40°C ~ 85°C • **Load Capacitance:** 18.0pF • **Shunt Capacitance:** 5pF Maximum • **Drive Level:** 50µW ~ 100µW • **Insulation Resistance:** 500MΩ Minimum/DC 100V ±5 • **Aging (First Year):** ±5ppm Maximum @ 25°C ±3°C

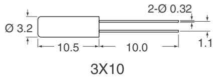

3X10

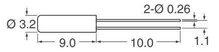

3X9

Frequency (MHz)	Equivalent Series Resistance (ESR) (Ω) Maximum	Mode
3.5 ~ 4	200	Fundamental
4 ~ 6	150	
6 ~ 10	100	
10 ~ 30	50	
30 ~ 36	100	3rd O/T
36 ~ 70	80	

Frequency (MHz)	Digi-Key Part No.	Price Each				ECS Part No.
		1	10	100	500	
	ECS-3X10					
3.579545	XC944-ND	.73	.66	.53	.47	ECS-35-18-10
3.686400	XC945-ND	.73	.66	.53	.47	ECS-36-18-10
4.000000	XC946-ND	.73	.66	.53	.47	ECS-40-18-10
4.915200	XC947-ND	.73	.66	.53	.47	ECS-49-18-10
6.000000	XC948-ND	.73	.66	.53	.47	ECS-60-18-10
7.372810	XC949-ND	.73	.66	.53	.47	ECS-73-18-10
8.000000	XC950-ND	.73	.66	.53	.47	ECS-80-18-10
	ECS-3X10X — RoHS Compliant					
3.579545	XC1371-ND	.73	.66	.53	.47	ECS-35-18-10X
3.686400	XC1372-ND	.73	.66	.53	.47	ECS-36-18-10X
4.000000	XC1373-ND	.73	.66	.53	.47	ECS-40-18-10X
4.915200	XC1374-ND	.73	.66	.53	.47	ECS-49-18-10X
6.000000	XC1375-ND	.73	.66	.53	.47	ECS-60-18-10X
7.372810	XC1376-ND	.73	.66	.53	.47	ECS-73-18-10X
8.000000	XC1377-ND	.73	.66	.53	.47	ECS-80-18-10X

Frequency (MHz)	Digi-Key Part No.	Price Each				ECS Part No.
		1	10	100	500	
	ECS-3X9					
8.192000	XC951-ND	.73	.66	.53	.47	ECS-81.92-18-9
9.830400	XC952-ND	.73	.66	.53	.47	ECS-98.3-18-9
10.000000	XC953-ND	.73	.66	.53	.47	ECS-100-18-9
11.059200	XC954-ND	.73	.66	.53	.47	ECS-110.5-18-9
12.000000	XC955-ND	.73	.66	.53	.47	ECS-120-18-9
14.318180	XC956-ND	.73	.66	.53	.47	ECS-143-18-9
14.745600	XC957-ND	.73	.66	.53	.47	ECS-147.4-18-9
16.000000	XC958-ND	.73	.66	.53	.47	ECS-160-18-9
18.432000	XC959-ND	.73	.66	.53	.47	ECS-184-18-9
19.660800	XC960-ND	.73	.66	.53	.47	ECS-196.6-18-9
20.000000	XC961-ND	.73	.66	.53	.47	ECS-200-18-9
24.000000	XC962-ND	.73	.66	.53	.47	ECS-240-18-9
24.576000	XC963-ND	.73	.66	.53	.47	ECS-245.7-18-9
25.000000	XC964-ND	.73	.66	.53	.47	ECS-250-18-9
27.000000	XC965-ND	.73	.66	.53	.47	ECS-270-18-9
32.000000	XC966-ND	.73	.66	.53	.47	ECS-320-18-9-F
32.768000	XC967-ND	.73	.66	.53	.47	ECS-327-18-9-F
40.000000	XC968-ND	.73	.66	.53	.47	ECS-400-18-10-3OT
50.000000	XC969-ND	.73	.66	.53	.47	ECS-500-18-9-3OT
	ECS-3X9X — RoHS Compliant					
10.000000	XC1378-ND	.73	.66	.53	.47	ECS-100-18-9X
11.059200	XC1379-ND	.73	.66	.53	.47	ECS-110.5-18-9X
12.000000	XC1380-ND	.73	.66	.53	.47	ECS-120-18-9X
14.318180	XC1381-ND	.73	.66	.53	.47	ECS-143-18-9X
14.745600	XC1382-ND	.73	.66	.53	.47	ECS-147.4-18-9X
16.000000	XC1383-ND	.73	.66	.53	.47	ECS-160-18-9X
18.432000	XC1384-ND	.73	.66	.53	.47	ECS-184-18-9X
20.000000	XC1386-ND	.73	.66	.53	.47	ECS-200-18-9X
24.576000	XC1387-ND	.73	.66	.53	.47	ECS-245.7-18-9X
25.000000	XC1388-ND	.73	.66	.53	.47	ECS-250-18-9X
27.000000	XC1389-ND	.73	.66	.53	.47	ECS-270-18-9X
32.000000	XC1390-ND	.73	.66	.53	.47	ECS-320-18-9X-F

Through-Hole Quartz Crystals

Fig. 1

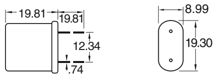

Fig. 2

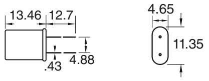

Fig. 3

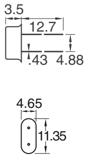

Fig. 4

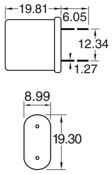

Fig. 5

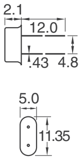

HC-49U
• **Frequency Tolerance @ 25°C:** ±30ppm • **Frequency Stability:** ±50ppm • **Shunt Capacitance:** 7pF Maximum • **Drive Level:** 1.800 ~ 3.000MHz 200µW; 3.000 ~ 100.000MHz 100µW • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -30°C ~ 85°C • **Aging Characteristics (First Year):** ±5ppm @ 25°C • **Mode of Operation:** Fundamental except when noted

HC-49US
• **Frequency Tolerance @ 25°C:** ±30ppm • **Frequency Stability @ 25°C:** Standard -10°C ~ 70°C ±50ppm • **Shunt Capacitance:** 7pF Maximum • **Drive Level:** 500µW • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -40°C ~ 105°C • **Aging Characteristics (First Year):** ±5ppm @ 25°C • **Mode of Operation:** Fundamental except when noted

HC-49US-DN
• **Frequency Tolerance @ 25°C:** ±30ppm • **Frequency Stability @ 25°C:** ±100ppm from -40°C ~ 85°C • **Shunt Capacitance:** 7pF Maximum • **Drive Level:** 500 µW • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -40°C ~ 105°C • **Aging Characteristics (per year) @ 25°C ±3°C:** ±5ppm Max • **Mode of Operation:** Fundamental except when noted

HC-49USS
• **Frequency Tolerance @ 25°C:** ±30ppm • **Frequency Stability:** ±50ppm • **Shunt Capacitance:** 5pF Maximum • **Drive Level:** 500µW • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -40°C ~ 105°C • **Aging Characteristics (per year) @ 25°C ±3°C:** ±5ppm Max • **Mode of Operation:** Fundamental except when noted

HC49INS-ND Base Insulator.. **$.90/10** **$7.50/100**

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each				ECS Part No.
				1	10	100	500	
			HC-64					
1	2.949120	32pF	X014-ND	1.37	1.14	.91	.70	ECS-29.4-32-2P
			HC-49U					
2	1.000000	13pF	X066B-ND*	17.88	14.85	8.09	7.54	ECS-10-13-1H
	1.843200	Series	X002-ND	1.95	1.62	1.29	1.00	ECS-18-S-1
	1.843200	13pF	X067-ND	1.95	1.62	1.29	1.00	ECS-18-13-1
	2.000000	Series	X004-ND	1.95	1.62	1.29	1.00	ECS-20-S-1
	2.000000	20pF	X068-ND	1.95	1.62	1.29	1.00	ECS-20-20-1
	2.048000	12pF	X098-ND	1.95	1.62	1.29	1.00	ECS-20.48-12-1
	2.457600	32pF	X069-ND	1.63	1.35	1.08	.83	ECS-24-32-1
	2.500000	Series	X070-ND	1.63	1.35	1.08	.83	ECS-25-S-1
	3.000000	Series	X009-ND	1.63	1.35	1.08	.83	ECS-30-S-1
	3.276800	17pF	X022-ND	.65	.54	.43	.34	ECS-32-17-1
	3.579550	Series	X011-ND	.40	.36	.32	.29	ECS-35-S-1

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each				ECS Part No.
				1	10	100	500	
2	3.579550	17pF	X049-ND	.40	.36	.32	.29	ECS-35-17-1
	3.686400	Series	X080-ND	.40	.36	.32	.29	ECS-36-S-1
	3.686400	18pF	X071-ND	.40	.36	.32	.29	ECS-36-18-1
	3.932160	17pF	X013-ND	.40	.36	.32	.29	ECS-39-17-1
	4.000000	Series	X081-ND	.40	.36	.32	.29	ECS-40-S-1
	4.000000	20pF	X006-ND	.40	.36	.32	.29	ECS-40-20-1
	4.032000	Series	X015-ND	.40	.36	.32	.29	ECS-40.3-S-1
	4.032000	20pF	X072-ND	.40	.36	.32	.29	ECS-40.3-20-1
	4.096000	20pF	X082-ND	.40	.36	.32	.29	ECS-41-20-1
	4.194304	12pF	X007-ND	.40	.36	.32	.29	ECS-42-12-1
	4.433620	20pF	X083-ND	.40	.36	.32	.29	ECS-44-20-1
	4.915200	Series	X050-ND	.40	.36	.32	.29	ECS-49-S-1
	4.915200	20pF	X084-ND	.40	.36	.32	.29	ECS-49-20-1
	5.000000	Series	X099-ND	.40	.36	.32	.29	ECS-50-S-1
	5.000000	20pF	X051-ND	.40	.36	.32	.29	ECS-50-20-1

* 1.0 Frequency: 100ppm @ 25°C; ±100ppm from 0°C ~ 60°C † 3rd Overtone

(Continued)

ECS INC. INTERNATIONAL Through-Hole Quartz Crystals *(Cont.)*

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each				ECS Part No.
				1	10	100	500	
2	5.068800	Series	X052-ND	.40	.36	.32	.29	ECS-51-S-1
	5.068800	20pF	X085-ND	.40	.36	.32	.29	ECS-51-20-1
	5.185000	Series	X053-ND	.40	.36	.32	.29	ECS-52-S-1
	5.185000	32pF	X016-ND	.40	.36	.32	.29	ECS-52-32-1
	5.990400	Series	X073-ND	.40	.36	.32	.29	ECS-59-S-1
	5.990400	20pF	X017-ND	.40	.36	.32	.29	ECS-59.9-20-1
	6.000000	Series	X026-ND	.40	.36	.32	.29	ECS-60-S-1
	6.000000	32pF	X086-ND	.40	.36	.32	.29	ECS-60-32-1
	6.144000	32pF	X054-ND	.40	.36	.32	.29	ECS-61-32-1
	6.553600	12pF	X018-ND	.40	.36	.32	.29	ECS-65-12-1
	7.372800	Series	X074-ND	.40	.36	.32	.29	ECS-73-S-1
	7.372800	20pF	X019-ND	.40	.36	.32	.29	ECS-73-20-1
	7.680000	20pF	X020-ND	.40	.36	.32	.29	ECS-76.8-20-1
	8.000000	Series	X056-ND	.40	.36	.32	.29	ECS-80-S-1
	8.000000	18pF	X100-ND	.40	.36	.32	.29	ECS-80-18-1
	8.000000	20pF	X021-ND	.40	.36	.32	.29	ECS-80-20-1
	8.000000	32pF	X137-ND	.40	.36	.32	.29	ECS-80-32-1
	9.216000	Series	X075-ND	.40	.36	.32	.29	ECS-92.1-S-1
	9.216000	20pF	X138-ND	.40	.36	.32	.29	ECS-92.1-20-1
	9.830400	Series	X023-ND	.40	.36	.32	.29	ECS-98.3-S-1
	9.830400	20pF	X087-ND	.40	.36	.32	.29	ECS-98.3-20-1
	10.000000	Series	X057-ND	.40	.36	.32	.29	ECS-100-S-1
	10.738640	Series	X024-ND	.40	.36	.32	.29	ECS-107.3-S-1
	11.000000	Series	X088-ND	.40	.36	.32	.29	ECS-110-S-1
	11.046000	Series	X025-ND	.40	.36	.32	.29	ECS-110.4-S-1
	11.059200	Series	X078-ND	.40	.36	.32	.29	ECS-110.5-S-1
	11.059200	20pF	X089-ND	.40	.36	.32	.29	ECS-110.5-20-1
	11.059200	32pF	X139-ND	.40	.36	.32	.29	ECS-110.5-32-1
	11.228000	Series	X028-ND	.40	.36	.32	.29	ECS-112.2-S-1
	11.520000	Series	X140-ND	.40	.36	.32	.29	ECS-115.2-S-1
	11.981350	Series	X029-ND	.40	.36	.32	.29	ECS-119.8-S-1
	12.000000	Series	X058-ND	.40	.36	.32	.29	ECS-120-S-1
	12.000000	32pF	X030-ND	.40	.36	.32	.29	ECS-120-32-1
	12.000390	18pF	X147-ND	.40	.36	.32	.29	ECS-120.003-18-1
	12.096000	Series	X031-ND	.40	.36	.32	.29	ECS-121-S-1
	12.288000	Series	X090-ND	.40	.36	.32	.29	ECS-122.8-S-1
	12.288000	20pF	X141-ND	.40	.36	.32	.29	ECS-122.8-20-1
	13.516800	Series	X032-ND	.40	.36	.32	.29	ECS-135-S-1
	14.318180	Series	X091-ND	.40	.36	.32	.29	ECS-143-S-1
	14.690000	Series	X033-ND	.40	.36	.32	.29	ECS-146-S-1
	14.745600	Series	X092-ND	.40	.36	.32	.29	ECS-147.4-S-1
	14.745600	20pF	X142-ND	.40	.36	.32	.29	ECS-147.4-20-1
	15.000000	Series	X059-ND	.40	.36	.32	.29	ECS-150-S-1
	16.000000	Series	X077-ND	.40	.36	.32	.29	ECS-160-S-1
	16.000000	20pF	X143-ND	.40	.36	.32	.29	ECS-160-20-1
	16.000310	18pF	X148-ND	.40	.36	.32	.29	ECS-160.003-18-1
	18.000000	Series	X060-ND	.40	.36	.32	.29	ECS-180-S-1
	18.000000	20pF	X144-ND	.40	.36	.32	.29	ECS-180-20-1
	18.432000	Series	X061-ND	.40	.36	.32	.29	ECS-184-S-1
	18.432000	18pF	X145-ND	.40	.36	.32	.29	ECS-184-18-1
	18.432000	20pF	X146-ND	.40	.36	.32	.29	ECS-184-20-1
	19.660800	Series	X094-ND	.40	.36	.32	.29	ECS-196.6-S-1
	19.660800	20pF	X035-ND	.40	.36	.32	.29	ECS-196.6-20-1
	20.000000	Series	X062-ND	.40	.36	.32	.29	ECS-200-S-1
	20.000000	20pF	X036-ND	.40	.36	.32	.29	ECS-200-20-1
	22.118400	Series	X063-ND	.40	.36	.32	.29	ECS-221-S-1
	24.000000	Series	X095-ND	.40	.36	.32	.29	ECS-240-S-1
	24.000000	20pF	X037-ND	.40	.36	.32	.29	ECS-240-20-1
	24.000100	18pF	X149-ND	.40	.36	.32	.29	ECS-240.001-18-1
	35.251200	18pF	X151-ND†	.50	.45	.36	.32	ECS-352.5-18-1
	38.000530	18pF	X150-ND†	.50	.45	.36	.32	ECS-380.005-18-1
	40.320000	18pF	X152-ND†	.50	.45	.36	.32	ECS-403.2-18-1
	48.000000	Series	X065-ND†	.40	.36	.32	.29	ECS-480-S-1
	48.000000	20pF	XC943-ND†	.50	.45	.36	.32	ECS-480-20-1
	49.860000	20pF	X038-ND†	.40	.36	.32	.29	ECS-498.6-20-1
HC-49UX — RoHS Compliant								
2	1.000000	13pF	X999-ND*	17.88	14.85	8.09	7.54	ECS-10-13-1XH
	1.843200	Series	X969-ND	1.95	1.62	1.29	1.00	ECS-18-S-1X
	1.843200	13pF	X1000-ND	1.95	1.62	1.29	1.00	ECS-18-13-1X
	2.000000	Series	X970-ND	1.95	1.62	1.29	1.00	ECS-20-S-1X
	2.000000	20pF	X1001-ND	1.95	1.62	1.29	1.00	ECS-20-20-1X
	2.048000	12pF	X1025-ND	1.95	1.62	1.29	1.00	ECS-20.48-12-1X
	2.457600	32pF	X1002-ND	1.63	1.35	1.08	.83	ECS-24-32-1X
	2.500000	Series	X1003-ND	1.63	1.35	1.08	.83	ECS-25-S-1X
	3.000000	Series	X973-ND	1.63	1.35	1.08	.83	ECS-30-S-1X
	3.276800	17pF	X980-ND	.65	.54	.43	.34	ECS-32-17-1X
	3.579550	Series	X974-ND	.40	.36	.32	.29	ECS-35-S-1X
	3.579550	17pF	X987-ND	.40	.36	.32	.29	ECS-35-17-1X
	3.686400	Series	X1010-ND	.40	.36	.32	.29	ECS-36-S-1X
	3.686400	18pF	X1004-ND	.40	.36	.32	.29	ECS-36-18-1X
	3.932160	17pF	X975-ND	.40	.36	.32	.29	ECS-39-17-1X
	4.000000	Series	X1011-ND	.40	.36	.32	.29	ECS-40-S-1X
	4.000000	20pF	X971-ND	.40	.36	.32	.29	ECS-40-20-1X
	4.032000	Series	X976-ND	.40	.36	.32	.29	ECS-40.3-S-1X
	4.032000	20pF	X1005-ND	.40	.36	.32	.29	ECS-40.3-20-1X
	4.096000	20pF	X1012-ND	.40	.36	.32	.29	ECS-41-20-1X
2	4.194304	12pF	X972-ND	.40	.36	.32	.29	ECS-42-12-1X
	4.433620	20pF	X1013-ND	.40	.36	.32	.29	ECS-44-20-1X
	4.915200	Series	X988-ND	.40	.36	.32	.29	ECS-49-S-1X
	4.915200	20pF	X1014-ND	.40	.36	.32	.29	ECS-49-20-1X
	5.000000	Series	X1026-ND	.40	.36	.32	.29	ECS-50-S-1X
	5.000000	20pF	X989-ND	.40	.36	.32	.29	ECS-50-20-1X
	5.068800	Series	X990-ND	.40	.36	.32	.29	ECS-51-S-1X
	5.068800	20pF	X1015-ND	.40	.36	.32	.29	ECS-51-20-1X
	6.000000	Series	X982-ND	.40	.36	.32	.29	ECS-60-S-1X
	6.000000	32pF	X1016-ND	.40	.36	.32	.29	ECS-60-32-1X
	6.553600	12pF	X977-ND	.40	.36	.32	.29	ECS-65-12-1X
	7.372800	Series	X1006-ND	.40	.36	.32	.29	ECS-73-S-1X
	7.372800	20pF	X978-ND	.40	.36	.32	.29	ECS-73-20-1X
	8.000000	Series	X991-ND	.40	.36	.32	.29	ECS-80-S-1X
	8.000000	18pF	X1027-ND	.40	.36	.32	.29	ECS-80-18-1X
	8.000000	20pF	X979-ND	.40	.36	.32	.29	ECS-80-20-1X
	8.000000	32pF	X1028-ND	.40	.36	.32	.29	ECS-80-32-1X
	9.216000	Series	X1007-ND	.40	.36	.32	.29	ECS-92.1-S-1X
	9.216000	20pF	X1029-ND	.40	.36	.32	.29	ECS-92.1-20-1X
	9.830400	Series	X981-ND	.40	.36	.32	.29	ECS-98.3-S-1X
	9.830400	20pF	X1017-ND	.40	.36	.32	.29	ECS-98.3-20-1X
	10.000000	Series	X992-ND	.40	.36	.32	.29	ECS-100-S-1X
	11.000000	Series	X1018-ND	.40	.36	.32	.29	ECS-110-S-1X
	11.059200	Series	X1009-ND	.40	.36	.32	.29	ECS-110.5-S-1X
	11.059200	20pF	X1019-ND	.40	.36	.32	.29	ECS-110.5-20-1X
	11.059200	32pF	X1030-ND	.40	.36	.32	.29	ECS-110.5-32-1X
	12.000000	Series	X993-ND	.40	.36	.32	.29	ECS-120-S-1X
	12.000000	32pF	X983-ND	.40	.36	.32	.29	ECS-120-32-1X
	12.288000	Series	X1020-ND	.40	.36	.32	.29	ECS-122.8-S-1X
	12.288000	20pF	X1031-ND	.40	.36	.32	.29	ECS-122.8-20-1X
	14.318180	Series	X1021-ND	.40	.36	.32	.29	ECS-143-S-1X
	14.745600	Series	X1022-ND	.40	.36	.32	.29	ECS-147.4-S-1X
	14.745600	20pF	X1032-ND	.40	.36	.32	.29	ECS-147.4-20-1X
	15.000000	Series	X994-ND	.40	.36	.32	.29	ECS-150-S-1X
	16.000000	Series	X1008-ND	.40	.36	.32	.29	ECS-160-S-1X
	16.000000	20pF	X1033-ND	.40	.36	.32	.29	ECS-160-20-1X
	18.000000	20pF	X1034-ND	.40	.36	.32	.29	ECS-180-20-1X
	18.432000	Series	X995-ND	.40	.36	.32	.29	ECS-184-S-1X
	18.432000	18pF	X1035-ND	.40	.36	.32	.29	ECS-184-18-1X
	18.432000	20pF	X1036-ND	.40	.36	.32	.29	ECS-184-20-1X
	19.660800	Series	X1023-ND	.40	.36	.32	.29	ECS-196.6-S-1X
	19.660800	20pF	X984-ND	.40	.36	.32	.29	ECS-196.6-20-1X
	20.000000	Series	X996-ND	.40	.36	.32	.29	ECS-200-S-1X
	20.000000	20pF	X985-ND	.40	.36	.32	.29	ECS-200-20-1X
	22.118400	Series	X997-ND	.40	.36	.32	.29	ECS-221-S-1X
	24.000000	Series	X1024-ND	.40	.36	.32	.29	ECS-240-S-1X
	24.000000	20pF	X986-ND	.40	.36	.32	.29	ECS-240-20-1X
	48.000000	Series	X998-ND†	.40	.36	.32	.29	ECS-480-S-1X
HC-49US								
3	3.579550	Series	X153-ND	.58	.52	.42	.37	ECS-35-S-4
	3.579550	17pF	X079-ND	.58	.52	.42	.37	ECS-35-17-4
	3.686400	Series	X403-ND	.58	.52	.42	.37	ECS-36-S-4
	3.686400	18pF	X402-ND	.58	.52	.42	.37	ECS-36-18-4
	4.000000	Series	X404-ND	.58	.52	.42	.37	ECS-40-S-4
	4.000000	20pF	X405-ND	.58	.52	.42	.37	ECS-40-20-4
	4.032000	Series	X155-ND	.58	.52	.42	.37	ECS-40.3-S-4
	4.032000	20pF	X154-ND	.58	.52	.42	.37	ECS-40.3-20-4
	4.096000	20pF	X156-ND	.58	.52	.42	.37	ECS-41-20-4
	4.194300	12pF	X406-ND	.58	.52	.42	.37	ECS-42-12-4
	4.194300	16pF	X157-ND	.58	.52	.42	.37	ECS-42-16-4
	4.433620	20pF	X407-ND	.58	.52	.42	.37	ECS-44-20-4
	4.915200	Series	X408-ND	.58	.52	.42	.37	ECS-49-S-4
	4.915200	20pF	X409-ND	.58	.52	.42	.37	ECS-49-20-4
	5.000000	Series	X158-ND	.58	.52	.42	.37	ECS-50-S-4
	5.000000	20pF	X410-ND	.58	.52	.42	.37	ECS-50-20-4
	5.068800	Series	X159-ND	.58	.52	.42	.37	ECS-51-S-4
	5.068800	20pF	X411-ND	.58	.52	.42	.37	ECS-51-20-4
	5.185000	Series	X160-ND	.58	.52	.42	.37	ECS-52-S-4
	5.185000	32pF	X064-ND	.75	.63	.50	.39	ECS-52-32-4
	5.990400	Series	X161-ND	.58	.52	.42	.37	ECS-59-S-4
	5.990400	20pF	X162-ND	.58	.52	.42	.37	ECS-59.9-20-4
	6.000000	Series	X412-ND	.58	.52	.42	.37	ECS-60-S-4
	6.000000	32pF	X413-ND	.58	.52	.42	.37	ECS-60-32-4
	6.144000	32pF	X414-ND	.58	.52	.42	.37	ECS-61-32-4
	6.500000	20pF	X415-ND	.58	.52	.42	.37	ECS-65-20-4
	7.372800	Series	X416-ND	.58	.52	.42	.37	ECS-73-S-4
	7.372800	20pF	X076-ND	.75	.63	.50	.39	ECS-73-20-4
	7.680000	20pF	X163-ND	.58	.52	.42	.37	ECS-76.8-20-4
	8.000000	Series	X417-ND	.58	.52	.42	.37	ECS-80-S-4
	8.000000	18pF	X164-ND	.58	.52	.42	.37	ECS-80-18-4
	8.000000	20pF	X165-ND	.58	.52	.42	.37	ECS-80-20-4
	8.000000	32pF	X166-ND	.58	.52	.42	.37	ECS-80-32-4
	8.500000	Series	X418-ND	.58	.52	.42	.37	ECS-85-S-4
	9.000000	Series	X419-ND	.58	.52	.42	.37	ECS-90-S-4
	9.216000	Series	X167-ND	.58	.52	.42	.37	ECS-92.1-S-4
	9.216000	20pF	X168-ND	.58	.52	.42	.37	ECS-92.1-20-4
	9.545000	Series	X420-ND	.58	.52	.42	.37	ECS-95.4-S-4
	9.830400	Series	X421-ND	.58	.52	.42	.37	ECS-98.3-S-4
	9.830400	20pF	X169-ND	.58	.52	.42	.37	ECS-98.3-20-4
	10.000000	Series	X422-ND	.58	.52	.42	.37	ECS-100-S-4
	10.000000	18pF	X443-ND	.58	.52	.42	.37	ECS-100-18-4
	10.738640	Series	X423-ND	.58	.52	.42	.37	ECS-107.3-S-4
	11.000000	Series	X424-ND	.58	.52	.42	.37	ECS-110-S-4
	11.059200	Series	X425-ND	.58	.52	.42	.37	ECS-110.5-S-4

* 1.0 Frequency: 100ppm @ 25°C; ±100ppm from 0°C ~ 60°C   † 3rd Overtone   *(Continued)*

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each				ECS Part No.
				1	10	100	500	
3	11.059200	20pF	X426-ND	.58	.52	.42	.37	ECS-110.5-20-4
	11.059200	32pF	X170-ND	.58	.52	.42	.37	ECS-110.5-32-4
	11.520000	Series	X171-ND	.58	.52	.42	.37	ECS-115.2-S-4
	11.981350	Series	X427-ND	.58	.52	.42	.37	ECS-119.8-S-4
	12.000000	Series	X428-ND	.58	.52	.42	.37	ECS-120-S-4
	12.000000	20pF	X227-ND	.58	.52	.42	.37	ECS-120-20-4
	12.000000	32pF	X172-ND	.58	.52	.42	.37	ECS-120-32-4
	12.000390	18pF	X173-ND	.58	.52	.42	.37	ECS-120.003-18-4
	12.096000	Series	X429-ND	.58	.52	.42	.37	ECS-121-S-4
	12.288000	Series	X174-ND	.58	.52	.42	.37	ECS-122.8-S-4
	12.288000	20pF	X228-ND	.58	.52	.42	.37	ECS-122.8-20-4
	12.960000	18pF	X097-ND	.75	.63	.50	.39	ECS-129.6-18-4
	14.318180	Series	X430-ND	.58	.52	.42	.37	ECS-143-S-4
	14.318180	20pF	X444-ND	.58	.52	.42	.37	ECS-143-20-4
	14.745600	Series	X431-ND	.58	.52	.42	.37	ECS-147.4-S-4
	14.745600	20pF	X175-ND	.58	.52	.42	.37	ECS-147.4-20-4
	15.000000	Series	X432-ND	.58	.52	.42	.37	ECS-150-S-4
	15.360000	20pF	X096-ND	.75	.63	.50	.39	ECS-153-20-4
	16.000000	Series	X433-ND	.58	.52	.42	.37	ECS-160-S-4
	16.000000	20pF	X176-ND	.58	.52	.42	.37	ECS-160-20-4
	16.000310	18pF	X177-ND	.58	.52	.42	.37	ECS-160.003-18-4
	16.257000	Series	X434-ND	.58	.52	.42	.37	ECS-162.5-S-4
	16.257000	20pF	X039-ND	.75	.63	.50	.39	ECS-162.5-20-4
	18.000000	Series	X435-ND	.58	.52	.42	.37	ECS-180-S-4
	18.000000	20pF	X178-ND	.58	.52	.42	.37	ECS-180-20-4
	18.432000	Series	X436-ND	.58	.52	.42	.37	ECS-184-S-4
	18.432000	18pF	X179-ND	.58	.52	.42	.37	ECS-184-18-4
	18.432000	20pF	X180-ND	.58	.52	.42	.37	ECS-184-20-4
	19.660800	Series	X437-ND	.58	.52	.42	.37	ECS-196.6-S-4
	19.660800	20pF	X181-ND	.58	.52	.42	.37	ECS-196.6-20-4
	20.000000	Series	X438-ND	.58	.52	.42	.37	ECS-200-S-4
	20.000000	20pF	X439-ND	.58	.52	.42	.37	ECS-200-20-4
	20.480000	20pF	X229-ND	.58	.52	.42	.37	ECS-204.8-20-4
	21.477270	Series	X044-ND	.75	.63	.50	.39	ECS-214.7-S-4
	22.118400	Series	X182-ND	.58	.52	.42	.37	ECS-221-S-4
	24.000000	Series	X440-ND	.58	.52	.42	.37	ECS-240-S-4
	24.000000	16pF	X441-ND	.58	.52	.42	.37	ECS-240-16-4
	24.000000	20pF	X442-ND	.58	.52	.42	.37	ECS-240-20-4
	24.000140	18pF	X183-ND	.58	.52	.42	.37	ECS-240.001-18-4
	24.576000	20pF	X230-ND	.58	.52	.42	.37	ECS-245.7-20-4
	25.000000	18pF	X231-ND	.58	.52	.42	.37	ECS-250-18-4-F
	48.000000	20pF	XC942-ND	.58	.52	.42	.37	ECS-480-20-4
HC-49USX — RoHS Compliant								
3	3.579550	Series	X1086-ND	.58	.52	.42	.37	ECS-35-S-4X
	3.579550	17pF	X1085-ND	.58	.52	.42	.37	ECS-35-17-4X
	3.686400	Series	X1043-ND	.58	.52	.42	.37	ECS-36-S-4X
	3.686400	18pF	X1042-ND	.58	.52	.42	.37	ECS-36-18-4X
	4.000000	Series	X1044-ND	.58	.52	.42	.37	ECS-40-S-4X
	4.000000	20pF	X1045-ND	.58	.52	.42	.37	ECS-40-20-4X
	4.032000	20pF	X1087-ND	.58	.52	.42	.37	ECS-40.3-20-4X
	4.096000	20pF	X1089-ND	.58	.52	.42	.37	ECS-41-20-4X
	4.194300	12pF	X1046-ND	.58	.52	.42	.37	ECS-42-12-4X
	4.194300	16pF	X1090-ND	.58	.52	.42	.37	ECS-42-16-4X
	4.433620	20pF	X1047-ND	.58	.52	.42	.37	ECS-44-20-4X
	4.915200	Series	X1048-ND	.58	.52	.42	.37	ECS-49-S-4X
	4.915200	20pF	X1049-ND	.58	.52	.42	.37	ECS-49-20-4X
	5.000000	Series	X1091-ND	.58	.52	.42	.37	ECS-50-S-4X
	5.000000	20pF	X1050-ND	.58	.52	.42	.37	ECS-50-20-4X
	5.068800	20pF	X1051-ND	.58	.52	.42	.37	ECS-51-20-4X
	6.000000	Series	X1052-ND	.58	.52	.42	.37	ECS-60-S-4X
	6.000000	32pF	X1053-ND	.58	.52	.42	.37	ECS-60-32-4X
	6.144000	32pF	X1054-ND	.58	.52	.42	.37	ECS-61-32-4X
	6.500000	20pF	X1055-ND	.58	.52	.42	.37	ECS-65-20-4X
	7.372800	Series	X1056-ND	.58	.52	.42	.37	ECS-73-S-4X
	7.372800	20pF	X1084-ND	.75	.63	.50	.39	ECS-73-20-4X
	7.680000	20pF	X1092-ND	.58	.52	.42	.37	ECS-76.8-20-4X
	8.000000	Series	X1057-ND	.58	.52	.42	.37	ECS-80-S-4X
	8.000000	18pF	X1093-ND	.58	.52	.42	.37	ECS-80-18-4X
	8.000000	20pF	X1094-ND	.58	.52	.42	.37	ECS-80-20-4X
	8.000000	32pF	X1095-ND	.58	.52	.42	.37	ECS-80-32-4X
	8.500000	Series	X1058-ND	.58	.52	.42	.37	ECS-85-S-4X
	9.000000	Series	X1059-ND	.58	.52	.42	.37	ECS-90-S-4X
	9.216000	20pF	X1096-ND	.58	.52	.42	.37	ECS-92.1-20-4X
	9.830400	Series	X1060-ND	.58	.52	.42	.37	ECS-98.3-S-4X
	9.830400	20pF	X1097-ND	.58	.52	.42	.37	ECS-98.3-20-4X
	10.000000	Series	X1061-ND	.58	.52	.42	.37	ECS-100-S-4X
	10.000000	18pF	X1080-ND	.58	.52	.42	.37	ECS-100-18-4X

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each				ECS Part No.
				1	10	100	500	
3	10.738640	Series	X1062-ND	.58	.52	.42	.37	ECS-107.3-S-4X
	11.000000	Series	X1063-ND	.58	.52	.42	.37	ECS-110-S-4X
	11.059200	Series	X1064-ND	.58	.52	.42	.37	ECS-110.5-S-4X
	11.059200	20pF	X1065-ND	.58	.52	.42	.37	ECS-110.5-20-4X
	11.059200	32pF	X1098-ND	.58	.52	.42	.37	ECS-110.5-32-4X
	11.520000	Series	X1099-ND	.58	.52	.42	.37	ECS-115.2-S-4X
	11.981350	Series	X1066-ND	.58	.52	.42	.37	ECS-119.8-S-4X
	12.000000	Series	X1067-ND	.58	.52	.42	.37	ECS-120-S-4X
	12.000000	20pF	X1037-ND	.58	.52	.42	.37	ECS-120-20-4X
	12.000000	32pF	X1100-ND	.58	.52	.42	.37	ECS-120-32-4X
	12.288000	Series	X1101-ND	.58	.52	.42	.37	ECS-122.8-S-4X
	12.288000	20pF	X1038-ND	.58	.52	.42	.37	ECS-122.8-20-4X
	12.960000	18pF	X1083-ND	.75	.63	.50	.39	ECS-129.6-18-4X
	14.318180	Series	X1068-ND	.58	.52	.42	.37	ECS-143-S-4X
	14.318180	20pF	X1081-ND	.58	.52	.42	.37	ECS-143-20-4X
	14.745600	Series	X1069-ND	.58	.52	.42	.37	ECS-147.4-S-4X
	14.745600	20pF	X1102-ND	.58	.52	.42	.37	ECS-147.4-20-4X
	15.000000	Series	X1070-ND	.58	.52	.42	.37	ECS-150-S-4X
	15.360000	20pF	X1082-ND	.75	.63	.50	.39	ECS-153-20-4X
	16.000000	Series	X1071-ND	.58	.52	.42	.37	ECS-160-S-4X
	16.000000	20pF	X1103-ND	.58	.52	.42	.37	ECS-160-20-4X
	16.000310	18pF	X1104-ND	.58	.52	.42	.37	ECS-160.003-18-4X
	18.000000	Series	X1072-ND	.58	.52	.42	.37	ECS-180-S-4X
	18.000000	20pF	X1105-ND	.58	.52	.42	.37	ECS-180-20-4X
	18.432000	Series	X1073-ND	.58	.52	.42	.37	ECS-184-S-4X
	18.432000	18pF	X1106-ND	.58	.52	.42	.37	ECS-184-18-4X
	18.432000	20pF	X1107-ND	.58	.52	.42	.37	ECS-184-20-4X
	19.660800	Series	X1074-ND	.58	.52	.42	.37	ECS-196.6-S-4X
	19.660800	20pF	X1108-ND	.58	.52	.42	.37	ECS-196.6-20-4X
	20.000000	Series	X1075-ND	.58	.52	.42	.37	ECS-200-S-4X
	20.000000	20pF	X1076-ND	.58	.52	.42	.37	ECS-200-20-4X
	20.480000	20pF	X1039-ND	.58	.52	.42	.37	ECS-204.8-20-4X
	22.118400	Series	X1109-ND	.58	.52	.42	.37	ECS-221-S-4X
	24.000000	Series	X1077-ND	.58	.52	.42	.37	ECS-240-S-4X
	24.000000	12pF	XC1005-ND	.58	.52	.42	.37	ECS-240-12-4X
	24.000000	16pF	X1078-ND	.58	.52	.42	.37	ECS-240-16-4X
	24.000000	20pF	X1079-ND	.58	.52	.42	.37	ECS-240-20-4X
	24.576000	20pF	X1040-ND	.58	.52	.42	.37	ECS-245.7-20-4X
	25.000000	18pF	X1041-ND	.58	.52	.42	.37	ECS-250-18-4X-F
	27.000000	18pF	XC1006-ND	.58	.52	.42	.37	ECS-270-18-4X-F
HC-49US-DN, Industrial Temperature Range: -40°C ~ 85°C								
3	3.579550	17pF	X184-ND	.80	.72	.58	.52	ECS-35-17-4DN
	3.686400	20pF	X185-ND	.80	.72	.58	.52	ECS-36-20-4DN
	4.000000	20pF	X186-ND	.80	.72	.58	.52	ECS-40-20-4DN
	6.000000	32pF	X187-ND	.80	.72	.58	.52	ECS-60-32-4DN
	7.372800	20pF	X188-ND	.80	.72	.58	.52	ECS-73-20-4DN
	8.000000	18pF	X189-ND	.80	.72	.58	.52	ECS-80-18-4DN
	12.000000	20pF	X190-ND	.80	.72	.58	.52	ECS-120-20-4DN
	14.318180	20pF	X191-ND	.80	.72	.58	.52	ECS-143-20-4DN
	16.000000	20pF	X192-ND	.80	.72	.58	.52	ECS-160-20-4DN
	18.432000	20pF	X193-ND	.80	.72	.58	.52	ECS-184-20-4DN
	19.660800	20pF	X194-ND	.80	.72	.58	.52	ECS-196.6-20-4DN
	20.000000	20pF	X195-ND	.80	.72	.58	.52	ECS-200-20-4DN
	24.000000	20pF	X196-ND	.80	.72	.58	.52	ECS-240-20-4DN
HC-49USX-DN, Industrial Temperature Range: -40°C ~ 85°C — RoHS Compliant								
3	3.579550	17pF	X1110-ND	.80	.72	.58	.52	ECS-35-17-4XDN
	3.686400	20pF	X1111-ND	.80	.72	.58	.52	ECS-36-20-4XDN
	4.000000	20pF	X1112-ND	.80	.72	.58	.52	ECS-40-20-4XDN
	6.000000	32pF	X1113-ND	.80	.72	.58	.52	ECS-60-32-4XDN
	7.372800	20pF	X1114-ND	.80	.72	.58	.52	ECS-73-20-4XDN
	8.000000	18pF	X1115-ND	.80	.72	.58	.52	ECS-80-18-4XDN
	12.000000	20pF	X1116-ND	.80	.72	.58	.52	ECS-120-20-4XDN
	14.318180	20pF	X1117-ND	.80	.72	.58	.52	ECS-143-20-4XDN
	16.000000	20pF	X1118-ND	.80	.72	.58	.52	ECS-160-20-4XDN
	18.432000	20pF	X1119-ND	.80	.72	.58	.52	ECS-184-20-4XDN
	19.660800	20pF	X1120-ND	.80	.72	.58	.52	ECS-196.6-20-4XDN
	20.000000	20pF	X1121-ND	.80	.72	.58	.52	ECS-200-20-4XDN
	24.000000	20pF	X1122-ND	.80	.72	.58	.52	ECS-240-20-4XDN
HC-6/U								
4	3.640000	32pF	X008-ND	1.24	1.03	.82	.64	ECS-36.4-32-2P
	3.700000	32pF	X012-ND	1.24	1.03	.82	.64	ECS-37-32-2P
HC-49USSX Series Low Profile — RoHS Compliant								
5	3.579545	18pF	XC1568-ND	.73	.66	.53	.47	ECS-35-18-4VX
	3.686400	20pF	XC1569-ND	.73	.66	.53	.47	ECS-36-20-4VX
	4.000000	20pF	XC1570-ND	.73	.66	.53	.47	ECS-40-20-4VX
	6.000000	20pF	XC1571-ND	.73	.66	.53	.47	ECS-60-20-4VX
	8.000000	20pF	XC1572-ND	.73	.66	.53	.47	ECS-80-20-4VX
	9.830400	20pF	XC1573-ND	.73	.66	.53	.47	ECS-98.3-20-4VX
	10.000000	20pF	XC1574-ND	.73	.66	.53	.47	ECS-100-20-4VX
	11.059200	20pF	XC1575-ND	.73	.66	.53	.47	ECS-110.5-20-4VX
	12.000000	18pF	XC1576-ND	.73	.66	.53	.47	ECS-120-18-4VX
	12.000000	32pF	XC1577-ND	.73	.66	.53	.47	ECS-120-32-4VX
	12.288000	20pF	XC1578-ND	.73	.66	.53	.47	ECS-122.8-20-4VX
	14.318180	20pF	XC1579-ND	.73	.66	.53	.47	ECS-143-20-4VX
	14.745600	20pF	XC1580-ND	.73	.66	.53	.47	ECS-147.4-20-4VX
	16.000000	20pF	XC1581-ND	.73	.66	.53	.47	ECS-160-20-4VX
	18.432000	20pF	XC1582-ND	.73	.66	.53	.47	ECS-184-20-4VX
	20.000000	20pF	XC1583-ND	.73	.66	.53	.47	ECS-200-20-4VX
	24.000000	20pF	XC1584-ND	.73	.66	.53	.47	ECS-240-20-4VX
	24.576000	20pF	XC1585-ND	.73	.66	.53	.47	ECS-245.7-20-4VX
	25.000000	20pF	XC1586-ND	.73	.66	.53	.47	ECS-250-20-4VX
	27.000000	20pF	XC1587-ND	.73	.66	.53	.47	ECS-270-20-4VX

* 1.0 Frequency: 100ppm @ 25°C; ±100ppm from 0°C ~ 60°C † 3rd Overtone

ABRACON CORPORATION
The Power of Linking Together

Crystals

ABL Series HC49US Crystals

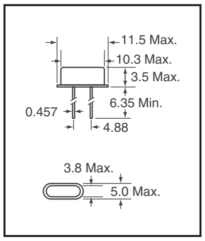

Specifications:

- **Frequency Stability:** ±50ppm, -20°C ~ 70°C
- **Frequency Tolerance:** ±20ppm
- **Operating Temperature:** -20°C ~ 70°C
- **Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	100	Abracon Part No.
20.000000	535-9046-ND	.39	.33	.31	.28	ABL-20.000MHZ-B2
22.118400	535-9047-ND	.39	.33	.31	.28	ABL-22.1184MHZ-B2

ABLS Series HC49US SMD Crystals

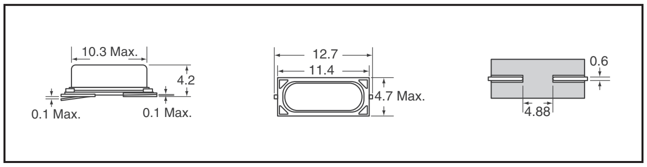

Specifications:
- **Frequency Stability:** ±50ppm, -20°C ~ 70°C • **Frequency Tolerance:** ±20ppm • **Operating Temperature:** -20°C ~ 70°C
- **Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel† Pricing 1,000	Abracon Part No.
3.579545	535-9081-1-ND	.56	.49	.43	263.00	ABLS-3.579545MHZ-B2-T
3.686400	535-9082-1-ND	.56	.49	.43	263.00	ABLS-3.6864MHZ-B2-T
4.000000	535-9085-1-ND	.56	.49	.43	263.00	ABLS-4.000MHZ-B2-T
4.915200	535-9086-1-ND	.56	.49	.43	263.00	ABLS-4.9152MHZ-B2-T
5.000000	535-9087-1-ND	.56	.49	.43	263.00	ABLS-5.000MHZ-B2-T
7.372800	535-9088-1-ND	.56	.49	.43	263.00	ABLS-7.3728MHZ-B2-T
8.000000	535-9089-1-ND	.56	.49	.43	263.00	ABLS-8.000MHZ-B2-T
8.192000	535-9090-1-ND	.56	.49	.43	263.00	ABLS-8.192MHZ-B2-T
10.000000	535-9065-1-ND	.56	.49	.43	263.00	ABLS-10.000MHZ-B2-T
11.059200	535-9066-1-ND	.56	.49	.43	263.00	ABLS-11.0592MHZ-B2-T
12.000000	535-9067-1-ND	.56	.49	.43	263.00	ABLS-12.000MHZ-B2-T
12.288000	535-9068-1-ND	.56	.49	.43	263.00	ABLS-12.288MHZ-B2-T
14.318180	535-9069-1-ND	.56	.49	.43	263.00	ABLS-14.31818MHZ-B2-T
14.745600	535-9070-1-ND	.56	.49	.43	263.00	ABLS-14.7456MHZ-B2-T
16.000000	535-9071-1-ND	.56	.49	.43	263.00	ABLS-16.000MHZ-B2-T
18.432000	535-9072-1-ND	.56	.49	.43	263.00	ABLS-18.432MHZ-B2-T
19.660800	535-9073-1-ND	.56	.49	.43	263.00	ABLS-19.6608MHZ-B2-T
20.000000	535-9074-1-ND	.56	.49	.43	263.00	ABLS-20.000MHZ-B2-T
22.118400	535-9075-1-ND	.56	.49	.43	263.00	ABLS-22.1184MHZ-B2-T
24.000000	535-9076-1-ND	.56	.49	.43	263.00	ABLS-24.000MHZ-B2-T
24.576000	535-9077-1-ND	.56	.49	.43	263.00	ABLS-24.576MHZ-B2F-T
25.000000	535-9078-1-ND	.56	.49	.43	263.00	ABLS-25.000MHZ-B2F-T
27.000000	535-9079-1-ND	.56	.49	.43	263.00	ABLS-27.000MHZ-B2F-T
32.000000	535-9080-1-ND	.56	.49	.43	263.00	ABLS-32.000MHZ-B2-T
48.000000	535-9083-1-ND	.56	.49	.43	263.00	ABLS-48.000MHZ-B2-T
49.152000	535-9084-1-ND	.56	.49	.43	263.00	ABLS-49.152MHZ-B2-T

Crystals for RF Transceivers — Specifications: • Frequency Stability: ±50ppm **• Frequency Tolerance:** ±50ppm **• Operating Temperature:** -40°C ~ 85°C
Zigbee Specification Crystal — Specifications: • Frequency Stability: ±25ppm **• Frequency Tolerance:** ±10ppm **• Operating Temperature:** -40°C ~ 85°C

Freq. (MHz)	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel† Pricing 1,000	Abracon Part No.
Crystals for RF Transceivers							
4.89700	20	535-9688-1-ND	.61	.50	.44	308.00	ABLS-4.897MHZ-20-R70-D
6.74580	20	535-9686-1-ND	.61	.50	.44	308.00	ABLS-6.7458MHZ-20-R60-D
9.79410	10	535-9694-1-ND	.61	.50	.44	308.00	ABLS-9.7941MHZ-10-R20-D
9.84375	10	535-9689-1-ND	.61	.50	.44	308.00	ABLS-9.84375MHZ-10-R20-D
12.18750	10	535-9696-1-ND	.61	.50	.44	308.00	ABLS-12.1875MHZ-10-R20-D
13.06250	10	535-9697-1-ND	.61	.50	.44	308.00	ABLS-13.0625MHZ-10-R20-D
13.56000	10	535-9687-1-ND	.61	.50	.44	308.00	ABLS-13.560MHZ-10-R20-D
13.60500	20	535-9690-1-ND	.61	.50	.44	308.00	ABLS-13.6050MHZ-20-R50-D
13.94916	10	535-9695-1-ND	.61	.50	.44	308.00	ABLS-13.94916MHZ-10-R20-D
14.33590	20	535-9691-1-ND‡	.61	.50	.44	308.00	ABLS-14.3359MHZ-20-R50
14.35940	20	535-9692-1-ND‡	.61	.50	.44	308.00	ABLS-14.3594MHZ-20-R50
Zigbee Specification Crystal							
24.00000	18	535-9701-1-ND	.94	.88	.75	375.00	ABLS-24.000MHZ-D-R60-1-W-T

† For Tape and Reel part number, change 1-ND to 2-ND ‡ Operating Temperature: 0°C ~ 70°C

ABM3 Series 5.0 x 3.2 SMD Crystals

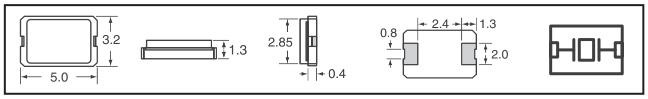

Specifications: • Frequency Stability: ±100ppm, -20°C ~ 70°C **• Frequency Tolerance:** ±20ppm **• Operating Temperature:** -20°C ~ 70°C **• Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel † Pricing 1,000	Abracon Part No.
12.00000	535-9100-1-ND	1.38	1.13	1.00	700.00	ABM3-12.000MHZ-B2-T
13.56000	535-9101-1-ND	1.38	1.13	1.00	700.00	ABM3-13.560MHZ-B2-T
14.31818	535-9102-1-ND	1.38	1.13	1.00	700.00	ABM3-14.31818MHZ-B2-T
16.00000	535-9103-1-ND	1.38	1.13	1.00	700.00	ABM3-16.000MHZ-B2-T
18.43200	535-9104-1-ND	1.38	1.13	1.00	700.00	ABM3-18.432MHZ-B2-T
20.00000	535-9105-1-ND	1.38	1.13	1.00	700.00	ABM3-20.000MHZ-B2-T
24.00000	535-9106-1-ND	1.38	1.13	1.00	700.00	ABM3-24.000MHZ-B2-T
24.57600	535-9107-1-ND	1.38	1.13	1.00	700.00	ABM3-24.576MHZ-B2-T
25.00000	535-9108-1-ND	1.38	1.13	1.00	700.00	ABM3-25.000MHZ-B2-T
27.00000	535-9109-1-ND	1.38	1.13	1.00	700.00	ABM3-27.000MHZ-B2-T
28.63630	535-9110-1-ND	1.38	1.13	1.00	700.00	ABM3-28.6363MHZ-B2-T
29.49120	535-9111-1-ND	1.38	1.13	1.00	700.00	ABM3-29.4912MHZ-B2-T
30.00000	535-9112-1-ND	1.38	1.13	1.00	700.00	ABM3-30.000MHZ-B2-T
33.00000	535-9113-1-ND	1.38	1.13	1.00	700.00	ABM3-33.000MHZ-B2-T
40.00000	535-9114-1-ND	1.38	1.13	1.00	700.00	ABM3-40.000MHZ-B2-T
48.00000	535-9115-1-ND	1.38	1.13	1.00	700.00	ABM3-48.000MHZ-B2-T

† For Tape and Reel part number, change 1-ND to 2-ND

ABM3B Series 5.0 x 3.2 SMD Crystals

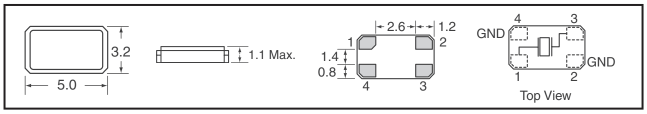

Specifications: • Frequency Stability: ±10ppm, -10°C ~ 60°C **• Frequency Tolerance:** ±10ppm @ 25°C
• Operating Temperature: -10°C ~ 60°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel† Pricing 1,000	Abracon Part No.
10.00000	300-8195-1-ND	1.93	1.58	1.40	980.00	ABM3B-10.000MHZ-10-1-U-T
11.05920	300-8196-1-ND	1.93	1.58	1.40	980.00	ABM3B-11.0592MHZ-10-1-U-T
12.00000	300-8197-1-ND	1.73	1.42	1.26	882.00	ABM3B-12.000MHZ-10-1-U-T
12.28800	300-8198-1-ND	1.73	1.42	1.26	882.00	ABM3B-12.288MHZ-10-1-U-T
12.80000	300-8199-1-ND	1.93	1.58	1.40	980.00	ABM3B-12.800MHZ-10-1-U-T
13.00000	300-8200-1-ND	1.73	1.42	1.26	882.00	ABM3B-13.000MHZ-10-1-U-T
13.50000	300-8201-1-ND	1.93	1.58	1.40	980.00	ABM3B-13.500MHZ-10-1-U-T
13.56000	300-8202-1-ND	1.93	1.58	1.40	980.00	ABM3B-13.560MHZ-10-1-U-T
14.40000	300-8203-1-ND	1.93	1.58	1.40	980.00	ABM3B-14.400MHZ-10-1-U-T
14.74560	300-8204-1-ND	1.93	1.58	1.40	980.00	ABM3B-14.7456MHZ-10-1-U-T
15.36000	300-8205-1-ND	1.73	1.42	1.26	882.00	ABM3B-15.360MHZ-10-1-U-T
16.00000	300-8206-1-ND	1.73	1.42	1.26	882.00	ABM3B-16.000MHZ-10-1-U-T
16.38400	300-8207-1-ND	1.73	1.42	1.26	882.00	ABM3B-16.384MHZ-10-1-U-T
16.80000	300-8208-1-ND	1.93	1.58	1.40	980.00	ABM3B-16.800MHZ-10-1-U-T
18.43200	300-8209-1-ND	1.73	1.42	1.26	882.00	ABM3B-18.432MHZ-10-1-U-T
19.20000	300-8210-1-ND	1.93	1.58	1.40	980.00	ABM3B-19.200MHZ-10-1-U-T
19.44000	300-8211-1-ND	1.93	1.58	1.40	980.00	ABM3B-19.440MHZ-10-1-U-T
19.68000	300-8212-1-ND	1.93	1.58	1.40	980.00	ABM3B-19.680MHZ-10-1-U-T
19.80000	300-8213-1-ND	1.93	1.58	1.40	980.00	ABM3B-19.800MHZ-10-1-U-T
20.00000	300-8214-1-ND	1.73	1.42	1.26	882.00	ABM3B-20.000MHZ-10-1-U-T
22.00000	300-8215-1-ND	1.93	1.58	1.40	980.00	ABM3B-22.000MHZ-10-1-U-T
24.00000	300-8216-1-ND	1.73	1.42	1.26	882.00	ABM3B-24.000MHZ-10-1-U-T
24.57600	300-8217-1-ND	1.73	1.42	1.26	882.00	ABM3B-24.576MHZ-10-1-U-T
25.00000	300-8218-1-ND	1.73	1.42	1.26	882.00	ABM3B-25.000MHZ-10-1-U-T
26.00000	300-8219-1-ND	1.93	1.58	1.40	980.00	ABM3B-26.000MHZ-10-1-U-T
28.63636	300-8220-1-ND	1.93	1.58	1.40	980.00	ABM3B-28.63636MHZ-10-1-U-T
29.49120	300-8221-1-ND	1.93	1.58	1.40	980.00	ABM3B-29.4912MHZ-10-1-U-T
30.00000	300-8222-1-ND	1.73	1.42	1.26	882.00	ABM3B-30.000MHZ-10-1-U-T
40.00000	300-8223-1-ND	1.73	1.42	1.26	882.00	ABM3B-40.000MHZ-10-1-U-T
44.00000	300-8224-1-ND	1.93	1.58	1.40	980.00	ABM3B-44.000MHZ-10-1-U-T
48.00000	300-8225-1-ND	1.73	1.42	1.26	882.00	ABM3B-48.000MHZ-10-1-U-T

Specifications: • Frequency Stability: ±50ppm, -20°C ~ 70°C **• Frequency Tolerance:** ±20ppm @ 25°C
• Operating Temperature: -20°C ~ 70°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel† Pricing 1,000	Abracon Part No.
12.00000	535-9116-1-ND	1.38	1.13	1.00	700.00	ABM3B-12.000MHZ-B2-T
12.28800	535-9117-1-ND	1.38	1.13	1.00	700.00	ABM3B-12.288MHZ-B2-T
13.00000	535-9118-1-ND	1.38	1.13	1.00	700.00	ABM3B-13.000MHZ-B2-T
13.82400	535-9119-1-ND	1.38	1.13	1.00	700.00	ABM3B-13.824MHZ-B2-T
14.31818	535-9120-1-ND	1.38	1.13	1.00	700.00	ABM3B-14.31818MHZ-B2-T
15.36000	535-9121-1-ND	1.38	1.13	1.00	700.00	ABM3B-15.360MHZ-B2-T
16.00000	535-9122-1-ND	1.38	1.13	1.00	700.00	ABM3B-16.000MHZ-B2-T
16.38400	535-9123-1-ND	1.38	1.13	1.00	700.00	ABM3B-16.384MHZ-B2-T
18.43200	535-9124-1-ND	1.38	1.13	1.00	700.00	ABM3B-18.432MHZ-B2-T
20.00000	535-9125-1-ND	1.38	1.13	1.00	700.00	ABM3B-20.000MHZ-B2-T
24.00000	535-9126-1-ND	1.38	1.13	1.00	700.00	ABM3B-24.000MHZ-B2-T
24.57600	535-9127-1-ND	1.38	1.13	1.00	700.00	ABM3B-24.576MHZ-B2-T
25.00000	535-9128-1-ND	1.38	1.13	1.00	700.00	ABM3B-25.000MHZ-B2-T
27.00000	535-9129-1-ND	1.38	1.13	1.00	700.00	ABM3B-27.000MHZ-B2-T
30.00000	535-9130-1-ND	1.38	1.13	1.00	700.00	ABM3B-30.000MHZ-B2-T
32.00000	535-9131-1-ND	1.38	1.13	1.00	700.00	ABM3B-32.000MHZ-B2-T
40.00000	535-9132-1-ND	1.38	1.13	1.00	700.00	ABM3B-40.000MHZ-B2-T
48.00000	535-9133-1-ND	1.38	1.13	1.00	700.00	ABM3B-48.000MHZ-B2-T

† For Tape and Reel part number, change 1-ND to 2-ND

(Continued)

ABM3B Series 5.0 x 3.2 SMD Crystals *(Cont.)*

Specifications: • Frequency Stability: ±50ppm **• Frequency Tolerance:** ±30ppm **• Operating Temperature:** -40°C ~ 85°C

Freq. (MHz)	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel† Pricing 1,000	Abracon Part No.
		Crystals for RF Transceivers					
12.1875	10	535-9698-1-ND	1.73	1.42	1.26	882.00	ABM3B-12.1875MHZ-10-D4
13.0625	10	535-9699-1-ND	1.73	1.42	1.26	882.00	ABM3B-13.0625MHZ-10-D4
		Zigbee Specification Crystal					
24.0000	18	535-9700-1-ND‡	2.06	1.93	1.65	825.00	ABM3B-24.000MHZ-D-R60-1-W-T

‡ See data sheet for electrical specifications
† For Tape and Reel part number, change 1-ND to 2-ND

ABM8 Series 3.2 x 2.5 SMD Crystals

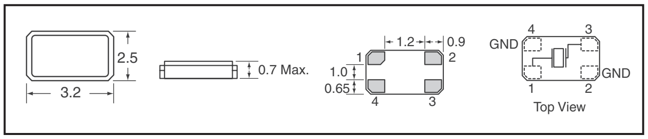

Specifications: • Frequency Stability: ±50ppm, -20°C ~ 70°C **• Frequency Tolerance:** ±20ppm @ 25°C **• Operating Temperature:** -20°C ~ 70°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel† Pricing 1,000	Abracon Part No.
16.00000	535-9134-1-ND	1.93	1.58	1.40	980.00	ABM8-16.000MHZ-B2-T
18.43200	535-9135-1-ND	1.93	1.58	1.40	980.00	ABM8-18.432MHZ-B2-T
20.00000	535-9136-1-ND	1.93	1.58	1.40	980.00	ABM8-20.000MHZ-B2-T
22.11840	535-9137-1-ND	1.93	1.58	1.40	980.00	ABM8-22.1184MHZ-B2-T
24.00000	535-9138-1-ND	1.93	1.58	1.40	980.00	ABM8-24.000MHZ-B2-T
24.57600	535-9139-1-ND	1.93	1.58	1.40	980.00	ABM8-24.576MHZ-B2-T
25.00000	535-9140-1-ND	1.93	1.58	1.40	980.00	ABM8-25.000MHZ-B2-T
27.00000	535-9141-1-ND	1.93	1.58	1.40	980.00	ABM8-27.000MHZ-B2-T
28.37500	535-9142-1-ND	1.93	1.58	1.40	980.00	ABM8-28.375MHZ-B2-T
28.63636	535-9143-1-ND	1.93	1.58	1.40	980.00	ABM8-28.63636MHZ-B2-T
29.49120	535-9144-1-ND	1.93	1.58	1.40	980.00	ABM8-29.4912MHZ-B2-T
30.00000	535-9145-1-ND	1.93	1.58	1.40	980.00	ABM8-30.000MHZ-B2-T
33.00000	535-9146-1-ND	1.93	1.58	1.40	980.00	ABM8-33.000MHZ-B2-T
40.00000	535-9147-1-ND	1.93	1.58	1.40	980.00	ABM8-40.000MHZ-B2-T
44.00000	535-9148-1-ND	1.93	1.58	1.40	980.00	ABM8-44.000MHZ-B2-T
48.00000	535-9149-1-ND	1.93	1.58	1.40	980.00	ABM8-48.000MHZ-B2-T

Specifications: • Frequency Tolerance: ±10ppm @ 25°C **• Frequency Stability:** ±10ppm, -10°C ~ 60°C **• Operating Temperature:** -10°C ~ 60°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel† Pricing 1,000	Abracon Part No.
	Wireless Communication Crystals					
13.0000	535-9673-1-ND	3.12	2.67	2.01	1246.00	ABM8-13.000MHZ-10-1-U-T
14.7456	535-9674-1-ND	3.12	2.67	2.01	1246.00	ABM8-14.7456MHZ-10-1-U-T
16.0000	535-9675-1-ND	3.12	2.67	2.01	1246.00	ABM8-16.000MHZ-10-1-U-T
16.3676	300-8226-1-ND	2.45	2.01	1.78	1246.00	ABM8-16.3676MHZ-10-1-U-T
16.3840	535-9676-1-ND	3.12	2.67	2.01	1246.00	ABM8-16.384MHZ-10-1-U-T
16.8000	300-8227-1-ND	2.45	2.01	1.78	1246.00	ABM8-16.800MHZ-10-1-U-T
19.2000	300-8228-1-ND	2.45	2.01	1.78	1246.00	ABM8-19.200MHZ-10-1-U-T
20.0000	535-9677-1-ND	3.12	2.67	2.01	1246.00	ABM8-20.000MHZ-10-1-U-T
24.5535	300-8229-1-ND	2.45	2.01	1.78	1246.00	ABM8-24.5535MHZ-10-1-U-T
24.5760	535-9678-1-ND	3.12	2.67	2.01	1246.00	ABM8-24.576MHZ-10-1-U-T
26.0000	300-8230-1-ND	2.45	2.01	1.78	1246.00	ABM8-26.000MHZ-10-1-U-T
27.0000	535-9679-1-ND	3.12	2.67	2.01	1246.00	ABM8-27.000MHZ-10-1-U-T
30.0000	535-9680-1-ND	3.12	2.67	2.01	1246.00	ABM8-30.000MHZ-10-1-U-T
36.0000	535-9681-1-ND	3.12	2.67	2.01	1246.00	ABM8-36.000MHZ-10-1-U-T
40.0000	535-9682-1-ND	3.12	2.67	2.01	1246.00	ABM8-40.000MHZ-10-1-U-T

† For Tape and Reel part number, change 1-ND to 2-ND

ABM9 Series 4.0 x 2.5 SMD RF Transceiver Crystals

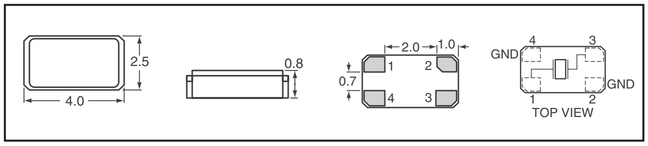

Specifications: • Frequency Stability: ±10ppm **• Frequency Tolerance:** ±10ppm @ 25°C **• Operating Temperature:** -40°C ~ 85°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel† Pricing 1,000	Abracon Part No.
16.000	535-9693-1-ND	2.26	1.85	1.64	1148.00	ABM9-16.000MHZ-10-D-1U

† For Tape and Reel part number, change 1-ND to 2-ND

ABM10 Series 2.5 x 2.0 SMD Crystals

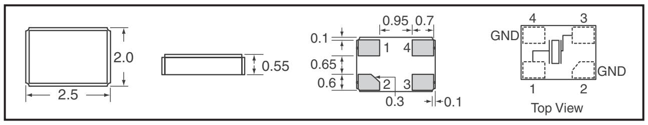

Specifications: • Frequency Stability: ±20ppm (-20°C ~ 70°C) **• Frequency Tolerance:** ±20ppm **• Operating Temperature:** -20°C ~ 70°C

Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R Pricing† 1,000	Abracon Part No.
20.00000	535-9091-1-ND	3.16	2.59	2.30	1610.00	ABM10-20.000MHZ-E20-T
22.11840	535-9092-1-ND	3.16	2.59	2.30	1610.00	ABM10-22.1184MHZ-E20-T
24.00000	535-9093-1-ND	3.16	2.59	2.30	1610.00	ABM10-24.000MHZ-E20-T
24.57600	535-9094-1-ND	3.16	2.59	2.30	1610.00	ABM10-24.576MHZ-E20-T
25.00000	535-9095-1-ND	3.16	2.59	2.30	1610.00	ABM10-25.000MHZ-E20-T
27.00000	535-9096-1-ND	3.16	2.59	2.30	1610.00	ABM10-27.000MHZ-E20-T
30.00000	535-9097-1-ND	3.16	2.59	2.30	1610.00	ABM10-30.000MHZ-E20-T
40.00000	535-9098-1-ND	3.16	2.59	2.30	1610.00	ABM10-40.000MHZ-E20-T
48.00000	535-9099-1-ND	3.16	2.59	2.30	1610.00	ABM10-48.000MHZ-E20-T

Specifications: • Frequency Stability: ±15ppm (-10°C ~ 60°C) **• Frequency Tolerance:** ±15ppm **• Operating Temperature:** -10°C ~ 60°C

Freq. (MHz)	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R Pricing† 1,000	Abracon Part No.
		Crystals for Wireless, Bluetooth and AV/OA					
24.00000	8.0	535-9622-1-ND	4.03	3.45	2.59	1610.00	ABM10-24.000MHZ-8-7A15-T
26.00000	10.0	535-9624-1-ND	4.03	3.45	2.59	1610.00	ABM10-26.000MHZ-7A15-T
28.63636	8.0	535-9623-1-ND	4.03	3.45	2.59	1610.00	ABM10-28.63636MHZ-8-7A15-T
32.00000	8.0	535-9625-1-ND	4.03	3.45	2.59	1610.00	ABM10-32.000MHZ-8-7A15-T
32.00000	10.0	535-9626-1-ND	4.03	3.45	2.59	1610.00	ABM10-32.000MHZ-7A15-T
40.00000	8.0	535-9627-1-ND	4.03	3.45	2.59	1610.00	ABM10-40.000MHZ-8-A15-T

† For Tape and Reel part number, change 1-ND to 2-ND

ABMM Series 5.0 x 7.0 SMD Crystals

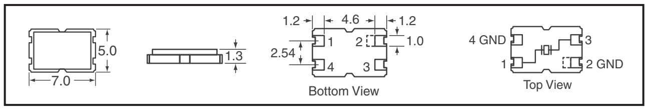

Specifications: • Frequency Stability: ±50ppm, -20°C ~ 70°C **• Frequency Tolerance:** ±20ppm **• Operating Temperature:** -20°C ~ 70°C **• Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R Pricing† 1,000	Abracon Part No.
8.00000	535-9164-1-ND	.88	.72	.64	448.00	ABMM-8.000MHZ-B2-T
10.00000	535-9150-1-ND	.88	.72	.64	448.00	ABMM-10.000MHZ-B2-T
11.05920	535-9151-1-ND	.88	.72	.64	448.00	ABMM-11.0592MHZ-B2-T
12.00000	535-9152-1-ND	.88	.72	.64	448.00	ABMM-12.000MHZ-B2-T
14.31818	535-9153-1-ND	.88	.72	.64	448.00	ABMM-14.31818MHZ-B2-T
14.74560	535-9154-1-ND	.88	.72	.64	448.00	ABMM-14.7456MHZ-B2-T
16.00000	535-9155-1-ND	.88	.72	.64	448.00	ABMM-16.000MHZ-B2-T
16.93440	535-9156-1-ND	.88	.72	.64	448.00	ABMM-16.9344MHZ-B2-T
19.66080	535-9157-1-ND	.88	.72	.64	448.00	ABMM-19.6608MHZ-B2-T
20.00000	535-9158-1-ND	.88	.72	.64	448.00	ABMM-20.000MHZ-B2-T
24.00000	535-9159-1-ND	.88	.72	.64	448.00	ABMM-24.000MHZ-B2-T
24.57600	535-9160-1-ND	.88	.72	.64	448.00	ABMM-24.576MHZ-B2-T
25.00000	535-9161-1-ND	.88	.72	.64	448.00	ABMM-25.000MHZ-B2-T
27.00000	535-9162-1-ND	.88	.72	.64	448.00	ABMM-27.000MHZ-B2-T
32.00000	535-9163-1-ND	.88	.72	.64	448.00	ABMM-32.000MHZ-2BF-T

† For Tape and Reel part number, change 1-ND to 2-ND

ABMM2 Series 6.0 x 3.6 SMD Crystals

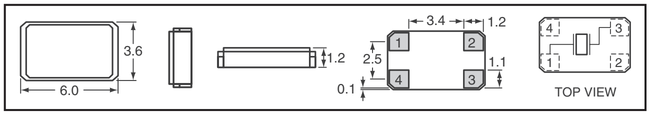

Specifications: • Frequency Stability: ±20ppm, -20°C ~ 70°C **• Frequency Tolerance:** ±20ppm **• Operating Temperature:** -20°C ~ 70°C **• Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R Pricing† 1,000	Abracon Part No.
8.00000	535-9628-1-ND	1.19	1.02	.77	476.00	ABMM2-8.000MHZ-E2-T
10.00000	535-9629-1-ND	1.19	1.02	.77	476.00	ABMM2-10.000MHZ-E2-T
11.05920	535-9630-1-ND	1.19	1.02	.77	476.00	ABMM2-11.0592MHZ-E2-T
12.00000	535-9631-1-ND	1.19	1.02	.77	476.00	ABMM2-12.000MHZ-E2-T
14.31818	535-9632-1-ND	1.19	1.02	.77	476.00	ABMM2-14.31818MHZ-E2-T
14.74560	535-9633-1-ND	1.19	1.02	.77	476.00	ABMM2-14.7456MHZ-E2-T
16.00000	535-9634-1-ND	1.19	1.02	.77	476.00	ABMM2-16.000MHZ-E2-T
16.93440	535-9635-1-ND	1.19	1.02	.77	476.00	ABMM2-16.9344MHZ-E2-T
19.66080	535-9636-1-ND	1.19	1.02	.77	476.00	ABMM2-19.6608MHZ-E2-T
20.00000	535-9637-1-ND	1.19	1.02	.77	476.00	ABMM2-20.000MHZ-E2-T
24.00000	535-9638-1-ND	1.19	1.02	.77	476.00	ABMM2-24.000MHZ-E2-T
24.57600	535-9639-1-ND	1.19	1.02	.77	476.00	ABMM2-24.576MHZ-E2-T
25.00000	535-9640-1-ND	1.19	1.02	.77	476.00	ABMM2-25.000MHZ-E2-T
27.00000	535-9641-1-ND	1.19	1.02	.77	476.00	ABMM2-27.000MHZ-E2-T
32.00000	535-9642-1-ND	1.19	1.02	.77	476.00	ABMM2-32.000MHZ-E2F-T
32.76800	535-9643-1-ND	1.19	1.02	.77	476.00	ABMM2-32.768MHZ-E2F-T
40.00000	535-9644-1-ND	1.19	1.02	.77	476.00	ABMM2-40.000MHZ-E2F-T
48.00000	535-9645-1-ND	1.19	1.02	.77	476.00	ABMM2-48.000MHZ-E2F-T
50.00000	535-9646-1-ND	1.19	1.02	.77	476.00	ABMM2-50.000MHZ-E2F-T
64.00000	535-9648-1-ND	1.58	1.35	1.02	630.00	ABMM2-64.000MHZ-E2-T

† For Tape and Reel part number, change 1-ND to 2-ND

ABRACON CORPORATION
The Power of Linking Together

32.768kHz Crystals and Oscillators

RoHS COMPLIANT

Specifications: • **Frequency:** 32.768kHz • **Frequency Tolerance:** ±20ppm

Fig.	Load Cap. (pF)	Operating Temperature	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel† Qty.	Pricing	Abracon Part No.
Through Hole Tuning Fork Crystals									
1	12.5	-10°C~60°C	535-9031-ND‡	.74	.63	.58	—	—	AB15T-32.768KHZ
	12.5	-10°C~60°C	535-9032-ND‡	.25	.21	.20	—	—	AB26T-32.768KHZ
	12.5	-10°C~60°C	535-9034-ND‡	.25	.21	.20	—	—	AB38T-32.768KHZ
Surface Mount Tuning Fork Crystals									
2	12.5	-40°C~85°C	535-9033-1-ND	.60	.51	.39	2,000	238.00/M	AB26TRB-32.768KHZ-T
3	12.5	-40°C~85°C	535-9165-1-ND	1.30	1.11	.84	3,000	518.00/M	ABS13-32.768KHZ-T
4	12.5	-40°C~85°C	535-9166-1-ND	.84	.72	.54	3,000	224.00/M	ABS25-32.768KHZ-T
5	12.5	-40°C~85°C	535-9536-1-ND	1.05	.90	.68	3,000	420.00/M	ABS10-32.768KHZ-T
	7.0	-40°C~85°C	535-9537-1-ND	1.05	.90	.68	3,000	420.00/M	ABS10-32.768KHZ-7-T
	9.0	-40°C~85°C	535-9538-1-ND	1.05	.90	.68	3,000	420.00/M	ABS10-32.768KHZ-9-T
	12.5	-40°C~85°C	535-9539-1-ND	1.23	1.05	.79	3,000	490.00/M	ABS09-32.768KHZ-T
	7.0	-40°C~85°C	535-9540-1-ND	1.23	1.05	.79	3,000	490.00/M	ABS09-32.768KHZ-7-T
	9.0	-40°C~85°C	535-9541-1-ND	1.23	1.05	.79	3,000	490.00/M	ABS09-32.768KHZ-9-T
	12.5	-40°C~85°C	535-9542-1-ND	1.47	1.26	.95	3,000	588.00/M	ABS07-32.768KHZ-T
	7.0	-40°C~85°C	535-9543-1-ND	1.47	1.26	.95	3,000	588.00/M	ABS07-32.768KHZ-7-T
	9.0	-40°C~85°C	535-9544-1-ND	1.47	1.26	.95	3,000	588.00/M	ABS07-32.768KHZ-9-T

Specifications: • **Frequency:** 32.768kHz • **Operating Temperature:** -40°C ~ 85°C • **Frequency Stability:** ±20ppm • **Supply Voltage:** 3.3V

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel† Qty.	Pricing	Abracon Part No.
Surface Mount Oscillators							
6	535-9545-1-ND	3.85	3.30	2.48	1,000	1540.00	ASVK-32.768KHZ-LJT
7	535-9546-1-ND	4.38	3.75	2.82	1,000	1750.00	ASFLK-32.768KHZ-LJT

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk Pricing

Fig. 1

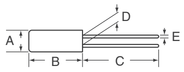

Dim.	A	B (max.)	C	D	E
AB15T	ø1.5	5.1	4.3 (typ.)	0.45	ø0.2
AB26T	ø2.1	6.2	9.0 (min.)	0.80	ø0.26
AB38T	ø3.2	8.3	9.0 (min.)	1.10	ø0.35

Fig. 2

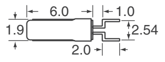

Fig. 3

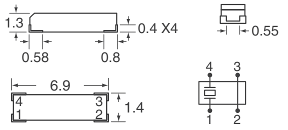

Fig. 4

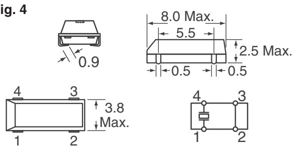

Fig. 5

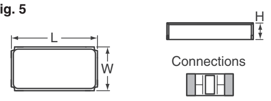

Dim.	L	W	H
ABS10	4.9	1.8	1.0
ABS09	4.1	1.5	0.9
ABS07	3.2	1.5	0.9

Fig. 6

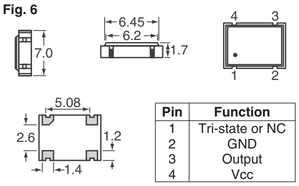

Pin	Function
1	Tri-state or NC
2	GND
3	Output
4	Vcc

Fig. 7

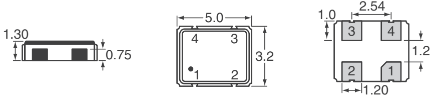

Pin	Function
1	E/D
2	GND
3	Output
4	Vcc

Oscillators

RoHS COMPLIANT

ACH and ACO Series Oscillators

Specifications:• **Frequency Stability:** ±30ppm (-20°C ~ 70°C) • **Operating Temperature:** -20°C ~ 70°C
Features: • HCMOS and TTL compatible

Fig. 1

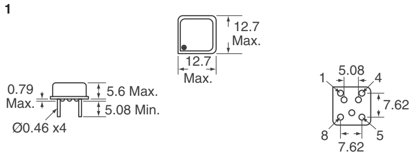

Pin	Function
1	NC
4	GRND/Case
5	Output
8	Vdd

Fig. 2

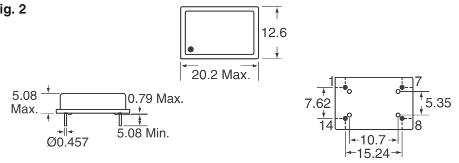

Pin	Function
1	NC
7	GRND/Case
8	Output
14	Vdd

Fig.	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	Abracon Part No.
ACH Series Half Size Oscillators — 5V							
1	4.00000	535-9182-5-ND	1.30	1.17	.94	.84	ACH-4.000MHZ-EK
	8.00000	535-9184-5-ND	1.30	1.17	.94	.84	ACH-8.000MHZ-EK
	12.00000	535-9169-5-ND	1.30	1.17	.94	.84	ACH-12.000MHZ-EK
	14.31818	535-9170-5-ND	1.30	1.17	.94	.84	ACH-14.31818MHZ-EK
	32.76800	535-9178-5-ND	1.30	1.17	.94	.84	ACH-32.768MHZ-EK
	40.00000	535-9180-5-ND	1.30	1.17	.94	.84	ACH-40.000MHZ-EK
ACHL Series Half Size Oscillators — 3.3V							
1	3.68640	535-9197-5-ND	1.30	1.17	.94	.84	ACHL-3.6864MHZ-EK
	4.00000	535-9200-5-ND	1.30	1.17	.94	.84	ACHL-4.000MHZ-EK
	27.00000	535-9194-5-ND	1.30	1.17	.94	.84	ACHL-27.000MHZ-EK
	32.00000	535-9195-5-ND	1.30	1.17	.94	.84	ACHL-32.000MHZ-EK
ACO Series Full Size Oscillators — 5V							
2	4.00000	535-9218-5-ND	1.30	1.17	.94	.84	ACO-4.000MHZ-EK
	14.31818	535-9206-5-ND	1.30	1.17	.94	.84	ACO-14.31818MHZ-EK
	16.00000	535-9207-5-ND	1.30	1.17	.94	.84	ACO-16.000MHZ-EK
	48.00000	535-9217-5-ND	1.30	1.17	.94	.84	ACO-48.000MHZ-EK
ACOL Series Full Size Oscillators — 3.3V							
2	24.57600	535-9228-5-ND	1.30	1.17	.94	.84	ACOL-24.576MHZ-EK
	25.00000	535-9229-5-ND	1.30	1.17	.94	.84	ACOL-25.000MHZ-EK
	50.00000	535-9237-5-ND	1.30	1.17	.94	.84	ACOL-50.000MHZ-EK

ASD Series 2.5 x 2.0 SMD Oscillators

Specifications: • **Frequency Stability:** ±50ppm • **Operating Temperature:** -20°C ~ 70°C
Note: *For nonstandard frequencies, please reference AP2S Series Programmable Oscillators.*

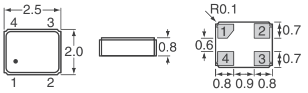

Pin	Function
1	Enable/Disable (STBY)*
2	GND/Case
3	Output
4	Vdd

* **H** or **Open**= Oscillation
L= Oscillation stops/Hi impedance

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
ASD1 Series — 3.0V								
1.54400	535-9579-1-ND	5.78	4.95	3.72	3.30	535-9579-2-ND	2310.00	ASD1-1.544MHZ-ECT
3.68640	535-9580-1-ND	5.78	4.95	3.72	3.30	535-9580-2-ND	2310.00	ASD1-3.6864MHZ-ECT
4.00000	535-9581-1-ND	5.78	4.95	3.72	3.30	535-9581-2-ND	2310.00	ASD1-4.000MHZ-ECT
7.37280	535-9582-1-ND	5.78	4.95	3.72	3.30	535-9582-2-ND	2310.00	ASD1-7.3728MHZ-ECT
8.00000	535-9583-1-ND	5.78	4.95	3.72	3.30	535-9583-2-ND	2310.00	ASD1-8.000MHZ-ECT
10.00000	535-9584-1-ND	5.78	4.95	3.72	3.30	535-9584-2-ND	2310.00	ASD1-10.000MHZ-ECT
11.05920	535-9585-1-ND	5.78	4.95	3.72	3.30	535-9585-2-ND	2310.00	ASD1-11.0592MHZ-ECT
12.00000	535-9586-1-ND	5.78	4.95	3.72	3.30	535-9586-2-ND	2310.00	ASD1-12.000MHZ-ECT
14.31818	535-9587-1-ND	5.78	4.95	3.72	3.30	535-9587-2-ND	2310.00	ASD1-14.31818MHZ-ECT
14.74560	535-9588-1-ND	5.78	4.95	3.72	3.30	535-9588-2-ND	2310.00	ASD1-14.7456MHZ-ECT
18.43200	535-9589-1-ND	5.78	4.95	3.72	3.30	535-9589-2-ND	2310.00	ASD1-18.432MHZ-ECT
20.00000	535-9590-1-ND	5.78	4.95	3.72	3.30	535-9590-2-ND	2310.00	ASD1-20.000MHZ-ECT
24.00000	535-9591-1-ND	5.78	4.95	3.72	3.30	535-9591-2-ND	2310.00	ASD1-24.000MHZ-ECT
24.57600	535-9592-1-ND	5.78	4.95	3.72	3.30	535-9592-2-ND	2310.00	ASD1-24.576MHZ-ECT
25.00000	535-9593-1-ND	5.78	4.95	3.72	3.30	535-9593-2-ND	2310.00	ASD1-25.000MHZ-ECT
27.00000	535-9594-1-ND	5.78	4.95	3.72	3.30	535-9594-2-ND	2310.00	ASD1-27.000MHZ-ECT
30.00000	535-9595-1-ND	5.78	4.95	3.72	3.30	535-9595-2-ND	2310.00	ASD1-30.000MHZ-ECT
32.00000	535-9596-1-ND	5.78	4.95	3.72	3.30	535-9596-2-ND	2310.00	ASD1-32.000MHZ-ECT
33.00000	535-9597-1-ND	5.78	4.95	3.72	3.30	535-9597-2-ND	2310.00	ASD1-33.000MHZ-ECT
33.33300	535-9598-1-ND	5.78	4.95	3.72	3.30	535-9598-2-ND	2310.00	ASD1-33.333MHZ-ECT
40.00000	535-9599-1-ND	5.78	4.95	3.72	3.30	535-9599-2-ND	2310.00	ASD1-40.000MHZ-ECT
48.00000	535-9600-1-ND	5.78	4.95	3.72	3.30	535-9600-2-ND	2310.00	ASD1-48.000MHZ-ECT
50.00000	535-9601-1-ND	5.78	4.95	3.72	3.30	535-9601-2-ND	2310.00	ASD1-50.000MHZ-ECT
60.00000	535-9602-1-ND	5.78	4.95	3.72	3.30	535-9602-2-ND	2310.00	ASD1-60.000MHZ-ECT
ASD3 Series — 1.8V								
14.31818	535-9603-1-ND	5.78	4.95	3.72	3.30	535-9603-2-ND	2310.00	ASD3-14.31818MHZ-ECT
20.00000	535-9604-1-ND	5.78	4.95	3.72	3.30	535-9604-2-ND	2310.00	ASD3-20.000MHZ-ECT
24.00000	535-9605-1-ND	5.78	4.95	3.72	3.30	535-9605-2-ND	2310.00	ASD3-24.000MHZ-ECT
24.57600	535-9606-1-ND	5.78	4.95	3.72	3.30	535-9606-2-ND	2310.00	ASD3-24.576MHZ-ECT
25.00000	535-9607-1-ND	5.78	4.95	3.72	3.30	535-9607-2-ND	2310.00	ASD3-25.000MHZ-ECT
27.00000	535-9608-1-ND	5.78	4.95	3.72	3.30	535-9608-2-ND	2310.00	ASD3-27.000MHZ-ECT
29.49120	535-9609-1-ND	5.78	4.95	3.72	3.30	535-9609-2-ND	2310.00	ASD3-29.4912MHZ-ECT
40.00000	535-9610-1-ND	5.78	4.95	3.72	3.30	535-9610-2-ND	2310.00	ASD3-40.000MHZ-ECT
50.00000	535-9611-1-ND	5.78	4.95	3.72	3.30	535-9611-2-ND	2310.00	ASD3-50.000MHZ-ECT

(Continued)

ASE Series 3.2 x 2.5 SMD Oscillators

Specifications: • **Frequency Stability:** ±50ppm • **Operating Temperature:** -40°C ~ 85°C • **Supply Voltage:** 3.3Vdc ±5%
Note: For nonstandard frequencies, please reference AP3S or ASEP Series Programmable Oscillators.

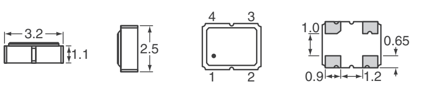

Pin	Function
1	Tri-state
2	GND/Case
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing	Abracon Part No.
		1	10	50	100		1,000	
1.84320	535-9555-1-ND	3.47	2.97	2.23	1.98	535-9555-2-ND	1386.00	ASE-1.8432MHZ-LC-T
4.00000	535-9556-1-ND	3.47	2.97	2.23	1.98	535-9556-2-ND	1386.00	ASE-4.000MHZ-LC-T
7.37280	535-9557-1-ND	3.47	2.97	2.23	1.98	535-9557-2-ND	1386.00	ASE-7.3728MHZ-LC-T
8.00000	535-9558-1-ND	3.47	2.97	2.23	1.98	535-9558-2-ND	1386.00	ASE-8.000MHZ-LC-T
10.00000	535-9559-1-ND	3.47	2.97	2.23	1.98	535-9559-2-ND	1386.00	ASE-10.000MHZ-LC-T
11.05920	535-9560-1-ND	3.47	2.97	2.23	1.98	535-9560-2-ND	1386.00	ASE-11.0592MHZ-LC-T
12.00000	535-9561-1-ND	3.47	2.97	2.23	1.98	535-9561-2-ND	1386.00	ASE-12.000MHZ-LC-T
14.31818	535-9562-1-ND	3.47	2.97	2.23	1.98	535-9562-2-ND	1386.00	ASE-14.31818MHZ-LC-T
14.74560	535-9563-1-ND	3.47	2.97	2.23	1.98	535-9563-2-ND	1386.00	ASE-14.7456MHZ-LC-T
18.43200	535-9564-1-ND	3.47	2.97	2.23	1.98	535-9564-2-ND	1386.00	ASE-18.432MHZ-LC-T
20.00000	535-9565-1-ND	3.47	2.97	2.23	1.98	535-9565-2-ND	1386.00	ASE-20.000MHZ-LC-T
24.00000	535-9566-1-ND	3.47	2.97	2.23	1.98	535-9566-2-ND	1386.00	ASE-24.000MHZ-LC-T
24.57600	535-9567-1-ND	3.47	2.97	2.23	1.98	535-9567-2-ND	1386.00	ASE-24.576MHZ-LC-T
25.00000	535-9568-1-ND	3.47	2.97	2.23	1.98	535-9568-2-ND	1386.00	ASE-25.000MHZ-LC-T
27.00000	535-9569-1-ND	3.47	2.97	2.23	1.98	535-9569-2-ND	1386.00	ASE-27.000MHZ-LC-T
29.49120	535-9570-1-ND	3.47	2.97	2.23	1.98	535-9570-2-ND	1386.00	ASE-29.4912MHZ-LC-T
30.00000	535-9571-1-ND	3.47	2.97	2.23	1.98	535-9571-2-ND	1386.00	ASE-30.000MHZ-LC-T
32.00000	535-9572-1-ND	3.47	2.97	2.23	1.98	535-9572-2-ND	1386.00	ASE-32.000MHZ-LC-T
33.00000	535-9573-1-ND	3.47	2.97	2.23	1.98	535-9573-2-ND	1386.00	ASE-33.000MHZ-LC-T
33.33300	535-9574-1-ND	3.47	2.97	2.23	1.98	535-9574-2-ND	1386.00	ASE-33.333MHZ-LC-T
44.00000	535-9575-1-ND	3.47	2.97	2.23	1.98	535-9575-2-ND	1386.00	ASE-44.000MHZ-LC-T
48.00000	535-9576-1-ND	3.47	2.97	2.23	1.98	535-9576-2-ND	1386.00	ASE-48.000MHZ-LC-T
50.00000	535-9577-1-ND	3.47	2.97	2.23	1.98	535-9577-2-ND	1386.00	ASE-50.000MHZ-LC-T
60.00000	535-9578-1-ND	3.47	2.97	2.23	1.98	535-9578-2-ND	1386.00	ASE-60.000MHZ-LC-T

ASE3 Series 3.2 x 2.5 SMD Oscillators

Specifications: • **Frequency Stability:** ±30ppm (-20°C ~ 70°C) • **Operating Temperature:** -20°C ~ 70°C • **Supply Voltage:** 1.8Vdc ±5%
Note: *For nonstandard frequencies, please reference AP3S or ASEP Series Programmable Oscillators.*

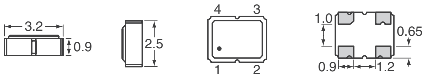

Pin	Function
1	Tri-state
2	GND/Case
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing	Abracon Part No.
		1	10	50	100		1,000	
14.31818	535-9547-1-ND	3.47	2.97	2.23	1.98	535-9547-2-ND	1386.00	ASE3-14.31818MHZ-KT
20.00000	535-9548-1-ND	3.47	2.97	2.23	1.98	535-9548-2-ND	1386.00	ASE3-20.000MHZ-KT
24.57600	535-9549-1-ND	3.47	2.97	2.23	1.98	535-9549-2-ND	1386.00	ASE3-24.576MHZ-KT
25.00000	535-9550-1-ND	3.47	2.97	2.23	1.98	535-9550-2-ND	1386.00	ASE3-25.000MHZ-KT
27.00000	535-9551-1-ND	3.47	2.97	2.23	1.98	535-9551-2-ND	1386.00	ASE3-27.000MHZ-KT
29.49120	535-9552-1-ND	3.47	2.97	2.23	1.98	535-9552-2-ND	1386.00	ASE3-29.4912MHZ-KT
40.00000	535-9553-1-ND	3.47	2.97	2.23	1.98	535-9553-2-ND	1386.00	ASE3-40.000MHZ-KT
50.00000	535-9554-1-ND	3.47	2.97	2.23	1.98	535-9554-2-ND	1386.00	ASE3-50.000MHZ-KT

ASFL1 Series 3.2 x 5.0 SMD Oscillators

Specifications:
• **Frequency Stability: EC:** ±50ppm (20°C ~ 70°C), **EK:** ±30ppm, (20°C ~ 70°C) • **Operating Temperature:** -20°C ~ 70°C
• **Supply Voltage:** 3.3V ± 10% **Features:** • Low current consumption • Glass sealed package

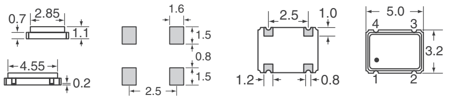

Pin	Function
1	Tri State E/D
2	GND/Case
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing	Abracon Part No.
		1	10	100	500		1,000	
1.84320	300-8237-1-ND	4.35	3.92	3.27	2.61	300-8237-2-ND	2030.00	ASFL1-1.8432MHZ-EC-T
1.84320	535-9258-1-ND	2.97	2.68	2.23	1.79	535-9258-2-ND	1485.00	ASFL1-1.8432MHZ-EK-T
3.68640	300-8238-1-ND	4.35	3.92	3.27	2.61	300-8238-2-ND	2030.00	ASFL1-3.6864MHZ-EC-T
3.68640	535-9268-1-ND	2.97	2.68	2.23	1.79	535-9268-2-ND	1485.00	ASFL1-3.6864MHZ-EK-T
4.00000	300-8239-1-ND	4.35	3.92	3.27	2.61	300-8239-2-ND	2030.00	ASFL1-4.000MHZ-EC-T
4.00000	535-9271-1-ND	2.97	2.68	2.23	1.79	535-9271-2-ND	1485.00	ASFL1-4.000MHZ-EK-T
7.37280	300-8240-1-ND	4.35	3.92	3.27	2.61	300-8240-2-ND	2030.00	ASFL1-7.3728MHZ-EC-T
7.37280	535-9273-1-ND	2.97	2.68	2.23	1.79	535-9273-2-ND	1485.00	ASFL1-7.3728MHZ-EK-T
8.00000	300-8241-1-ND	4.35	3.92	3.27	2.61	300-8241-2-ND	2030.00	ASFL1-8.000MHZ-EC-T
8.00000	535-9274-1-ND	2.97	2.68	2.23	1.79	535-9274-2-ND	1485.00	ASFL1-8.000MHZ-EK-T
10.00000	300-8242-1-ND	4.35	3.92	3.27	2.61	300-8242-2-ND	2030.00	ASFL1-10.000MHZ-EC-T
10.00000	535-9251-1-ND	2.97	2.68	2.23	1.79	535-9251-2-ND	1485.00	ASFL1-10.000MHZ-EK-T
11.05920	300-8243-1-ND	4.35	3.92	3.27	2.61	300-8243-2-ND	2030.00	ASFL1-11.0592MHZ-EC-T
11.05920	535-9252-1-ND	2.97	2.68	2.23	1.79	535-9252-2-ND	1485.00	ASFL1-11.0592MHZ-EK-T
12.00000	300-8244-1-ND	4.35	3.92	3.27	2.61	300-8244-2-ND	2030.00	ASFL1-12.000MHZ-EC-T
12.00000	535-9253-1-ND	2.97	2.68	2.23	1.79	535-9253-2-ND	1485.00	ASFL1-12.000MHZ-EK-T
12.28800	300-8245-1-ND	4.35	3.92	3.27	2.61	300-8245-2-ND	2030.00	ASFL1-12.288MHZ-EC-T
14.31818	300-8246-1-ND	4.35	3.92	3.27	2.61	300-8246-2-ND	2030.00	ASFL1-14.31818MHZ-EC-T
14.31818	535-9254-1-ND	2.97	2.68	2.23	1.79	535-9254-2-ND	1485.00	ASFL1-14.31818MHZ-EK-T
14.74560	300-8247-1-ND	4.35	3.92	3.27	2.61	300-8247-2-ND	2030.00	ASFL1-14.7456MHZ-EC-T
14.74560	535-9255-1-ND	2.97	2.68	2.23	1.79	535-9255-2-ND	1485.00	ASFL1-14.7456MHZ-EK-T
16.00000	300-8248-1-ND	4.35	3.92	3.27	2.61	300-8248-2-ND	2030.00	ASFL1-16.000MHZ-EC-T
16.00000	535-9256-1-ND	2.97	2.68	2.23	1.79	535-9256-2-ND	1485.00	ASFL1-16.000MHZ-EK-T
16.38400	300-8249-1-ND	4.35	3.92	3.27	2.61	300-8249-2-ND	2030.00	ASFL1-16.384MHZ-EC-T
18.43200	300-8250-1-ND	4.35	3.92	3.27	2.61	300-8250-2-ND	2030.00	ASFL1-18.432MHZ-EC-T
18.43200	535-9257-1-ND	2.97	2.68	2.23	1.79	535-9257-2-ND	1485.00	ASFL1-18.432MHZ-EK-T
20.00000	300-8251-1-ND	4.35	3.92	3.27	2.61	300-8251-2-ND	2030.00	ASFL1-20.000MHZ-EC-T
20.00000	535-9259-1-ND	2.97	2.68	2.23	1.79	535-9259-2-ND	1485.00	ASFL1-20.000MHZ-EK-T
24.00000	300-8252-1-ND	4.35	3.92	3.27	2.61	300-8252-2-ND	2030.00	ASFL1-24.000MHZ-EC-T
24.00000	535-9260-1-ND	2.97	2.68	2.23	1.79	535-9260-2-ND	1485.00	ASFL1-24.000MHZ-EK-T
24.57600	300-8253-1-ND	4.35	3.92	3.27	2.61	300-8253-2-ND	2030.00	ASFL1-24.576MHZ-EC-T
24.57600	535-9261-1-ND	2.97	2.68	2.23	1.79	535-9261-2-ND	1485.00	ASFL1-24.576MHZ-EK-T
25.00000	300-8254-1-ND	4.35	3.92	3.27	2.61	300-8254-2-ND	2030.00	ASFL1-25.000MHZ-EC-T
25.00000	535-9262-1-ND	2.97	2.68	2.23	1.79	535-9262-2-ND	1485.00	ASFL1-25.000MHZ-EK-T
27.00000	300-8255-1-ND	4.35	3.92	3.27	2.61	300-8255-2-ND	2030.00	ASFL1-27.000MHZ-EC-T
27.00000	535-9263-1-ND	2.97	2.68	2.23	1.79	535-9263-2-ND	1485.00	ASFL1-27.000MHZ-EK-T
29.49120	300-8256-1-ND	4.35	3.92	3.27	2.61	300-8256-2-ND	2030.00	ASFL1-29.4912MHZ-EC-T
30.00000	300-8257-1-ND	4.35	3.92	3.27	2.61	300-8257-2-ND	2030.00	ASFL1-30.000MHZ-EC-T
30.00000	535-9264-1-ND	2.97	2.68	2.23	1.79	535-9264-2-ND	1485.00	ASFL1-30.000MHZ-EK-T
32.00000	300-8258-1-ND	4.35	3.92	3.27	2.61	300-8258-2-ND	2030.00	ASFL1-32.000MHZ-EC-T
32.00000	535-9265-1-ND	2.97	2.68	2.23	1.79	535-9265-2-ND	1485.00	ASFL1-32.000MHZ-EK-T
32.76800	300-8259-1-ND	4.35	3.92	3.27	2.61	300-8259-2-ND	2030.00	ASFL1-32.768MHZ-EC-T
33.00000	535-9266-1-ND	2.97	2.68	2.23	1.79	535-9266-2-ND	1485.00	ASFL1-33.000MHZ-EK-T
33.33300	300-8260-1-ND	4.35	3.92	3.27	2.61	300-8260-2-ND	2030.00	ASFL1-33.333MHZ-EC-T
33.33300	535-9267-1-ND	2.97	2.68	2.23	1.79	535-9267-2-ND	1485.00	ASFL1-33.333MHZ-EK-T
35.32800	300-8261-1-ND	4.35	3.92	3.27	2.61	300-8261-2-ND	2030.00	ASFL1-35.328MHZ-EC-T
40.00000	300-8262-1-ND	4.35	3.92	3.27	2.61	300-8262-2-ND	2030.00	ASFL1-40.000MHZ-EC-T
40.00000	535-9269-1-ND	2.97	2.68	2.23	1.79	535-9269-2-ND	1485.00	ASFL1-40.000MHZ-EK-T
48.00000	300-8263-1-ND	4.35	3.92	3.27	2.61	300-8263-2-ND	2030.00	ASFL1-48.000MHZ-EC-T
48.00000	535-9270-1-ND	2.97	2.68	2.23	1.79	535-9270-2-ND	1485.00	ASFL1-48.000MHZ-EK-T
50.00000	300-8264-1-ND	4.35	3.92	3.27	2.61	300-8264-2-ND	2030.00	ASFL1-50.000MHZ-EC-T
50.00000	535-9272-1-ND	2.97	2.68	2.23	1.79	535-9272-2-ND	1485.00	ASFL1-50.000MHZ-EK-T
60.00000	300-8265-1-ND	4.35	3.92	3.27	2.61	300-8265-2-ND	2030.00	ASFL1-60.000MHZ-EC-T
64.00000	300-8266-1-ND	4.35	3.92	3.27	2.61	300-8266-2-ND	2030.00	ASFL1-64.000MHZ-EC-T
66.66600	300-8267-1-ND	4.35	3.92	3.27	2.61	300-8267-2-ND	2030.00	ASFL1-66.666MHZ-EC-T
75.00000	300-8268-1-ND	4.95	4.46	3.72	2.97	300-8268-2-ND	2310.00	ASFL1-75.000MHZ-EC-T
80.00000	300-8269-1-ND	4.95	4.46	3.72	2.97	300-8269-2-ND	2310.00	ASFL1-80.000MHZ-EC-T
100.00000	300-8270-1-ND	4.95	4.46	3.72	2.97	300-8270-2-ND	2310.00	ASFL1-100.000MHZ-EC-T
106.25000	300-8271-1-ND	4.95	4.46	3.72	2.97	300-8271-2-ND	2310.00	ASFL1-106.250MHZ-EC-T
125.00000	300-8272-1-ND	4.95	4.46	3.72	2.97	300-8272-2-ND	2310.00	ASFL1-125.000MHZ-EC-T
133.33000	300-8273-1-ND	4.95	4.46	3.72	2.97	300-8273-2-ND	2310.00	ASFL1-133.330MHZ-EC-T

ASFL3 Series 3.2 x 5.0 SMD Oscillators

Specifications: • **Frequency Tolerance:** ±30ppm • **Operating Temperature:** -20°C ~ 70°C • **Load Capacitance:** 15.0pF • **Supply Voltage:** 1.8V ± 5% **Features:** • Low current consumption • Tri-State output

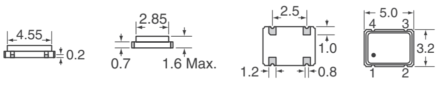

Pin	Function
1	Tri State
2	GND/Case
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing	Abracon Part No.
		1	10	50	100		1,000	
1.84320	535-9407-1-ND	3.71	3.47	2.97	2.23	535-9407-2-ND	1386.00	ASFL3-1.8432MHZ-EK-T
3.68640	535-9408-1-ND	3.71	3.47	2.97	2.23	535-9408-2-ND	1386.00	ASFL3-3.6864MHZ-EK-T
4.00000	535-9409-1-ND	3.71	3.47	2.97	2.23	535-9409-2-ND	1386.00	ASFL3-4.000MHZ-EK-T
8.00000	535-9410-1-ND	3.71	3.47	2.97	2.23	535-9410-2-ND	1386.00	ASFL3-8.000MHZ-EK-T
10.00000	535-9411-1-ND	3.71	3.47	2.97	2.23	535-9411-2-ND	1386.00	ASFL3-10.000MHZ-EK-T
11.05920	535-9412-1-ND	3.71	3.47	2.97	2.23	535-9412-2-ND	1386.00	ASFL3-11.0592MHZ-EK-T
12.00000	535-9413-1-ND	3.71	3.47	2.97	2.23	535-9413-2-ND	1386.00	ASFL3-12.000MHZ-EK-T
14.31818	535-9414-1-ND	3.71	3.47	2.97	2.23	535-9414-2-ND	1386.00	ASFL3-14.31818MHZ-EK-T
16.00000	535-9415-1-ND	3.71	3.47	2.97	2.23	535-9415-2-ND	1386.00	ASFL3-16.000MHZ-EK-T
20.00000	535-9416-1-ND	3.71	3.47	2.97	2.23	535-9416-2-ND	1386.00	ASFL3-20.000MHZ-EK-T
24.00000	535-9417-1-ND	3.71	3.47	2.97	2.23	535-9417-2-ND	1386.00	ASFL3-24.000MHZ-EK-T
24.57600	535-9418-1-ND	3.71	3.47	2.97	2.23	535-9418-2-ND	1386.00	ASFL3-24.576MHZ-EK-T
25.00000	535-9419-1-ND	3.71	3.47	2.97	2.23	535-9419-2-ND	1386.00	ASFL3-25.000MHZ-EK-T
27.00000	535-9420-1-ND	3.71	3.47	2.97	2.23	535-9420-2-ND	1386.00	ASFL3-27.000MHZ-EK-T
30.00000	535-9421-1-ND	3.71	3.47	2.97	2.23	535-9421-2-ND	1386.00	ASFL3-30.000MHZ-EK-T
32.00000	535-9422-1-ND	3.71	3.47	2.97	2.23	535-9422-2-ND	1386.00	ASFL3-32.000MHZ-EK-T
32.76800	535-9423-1-ND	4.88	4.55	3.90	2.93	535-9423-2-ND	1820.00	ASFL3-32.768MHZ-EK-T
40.00000	535-9424-1-ND	3.71	3.47	2.97	2.23	535-9424-2-ND	1386.00	ASFL3-40.000MHZ-EK-T
48.00000	535-9425-1-ND	3.71	3.47	2.97	2.23	535-9425-2-ND	1386.00	ASFL3-48.000MHZ-EK-T

(Continued)

ASFLM1 Series 3.2 x 5.0 SMD MEMS Oscillators

Specifications: • **Frequency Tolerance:** ±50ppm • **Operating Temperature:** -20°C ~ 70°C • **Supply Voltage:** 3.0Vdc
Features: • Suitable for high shock resistance, industrial/COTS and military applications

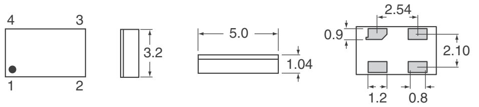

Pin	Function
1	Tri-state
2	GND/Case
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Bulk Price Each 1	10	50	100	Abracon Part No.
1.84320	535-9649-5-ND	2.45	2.10	1.58	1.40	ASFLM1-1.8432MHZ-C
3.68640	535-9650-5-ND	2.45	2.10	1.58	1.40	ASFLM1-3.6864MHZ-C
4.00000	535-9651-5-ND	2.45	2.10	1.58	1.40	ASFLM1-4.000MHZ-C
7.37280	535-9652-5-ND	2.45	2.10	1.58	1.40	ASFLM1-7.3728MHZ-C
8.00000	535-9653-5-ND	2.45	2.10	1.58	1.40	ASFLM1-8.000MHZ-C
10.00000	535-9654-5-ND	2.45	2.10	1.58	1.40	ASFLM1-10.000MHZ-C
11.05920	535-9655-5-ND	2.45	2.10	1.58	1.40	ASFLM1-11.0592MHZ-C
12.00000	535-9656-5-ND	2.45	2.10	1.58	1.40	ASFLM1-12.000MHZ-C
14.31818	535-9657-5-ND	2.45	2.10	1.58	1.40	ASFLM1-14.31818MHZ-C
14.74560	535-9658-5-ND	2.45	2.10	1.58	1.40	ASFLM1-14.7456MHZ-C
16.00000	535-9659-5-ND	2.45	2.10	1.58	1.40	ASFLM1-16.000MHZ-C
18.43200	535-9660-5-ND	2.45	2.10	1.58	1.40	ASFLM1-18.432MHZ-C
20.00000	535-9661-5-ND	2.45	2.10	1.58	1.40	ASFLM1-20.000MHZ-C
24.00000	535-9662-5-ND	2.45	2.10	1.58	1.40	ASFLM1-24.000MHZ-C
24.57600	535-9663-5-ND	2.45	2.10	1.58	1.40	ASFLM1-24.576MHZ-C
25.00000	535-9664-5-ND	2.45	2.10	1.58	1.40	ASFLM1-25.000MHZ-C
27.00000	535-9665-5-ND	2.45	2.10	1.58	1.40	ASFLM1-27.000MHZ-C
30.00000	535-9666-5-ND	2.45	2.10	1.58	1.40	ASFLM1-30.000MHZ-C
32.00000	535-9667-5-ND	2.45	2.10	1.58	1.40	ASFLM1-32.000MHZ-C
33.00000	535-9668-5-ND	2.45	2.10	1.58	1.40	ASFLM1-33.000MHZ-C
33.33300	535-9669-5-ND	2.45	2.10	1.58	1.40	ASFLM1-33.333MHZ-C
40.00000	535-9670-5-ND	2.45	2.10	1.58	1.40	ASFLM1-40.000MHZ-C
48.00000	535-9671-5-ND	2.45	2.10	1.58	1.40	ASFLM1-48.000MHZ-C
50.00000	535-9672-5-ND	2.45	2.10	1.58	1.40	ASFLM1-50.000MHZ-C

ASML Series 10 x 14 SMD Oscillators

Specifications: • **Frequency Tolerance:** ±100ppm • **Operating Temperature:** 0°C ~ 70°C • **Supply Voltage:** 3.3V ± 10%
Features: • Low current consumption • HCMOS • Tri-State output

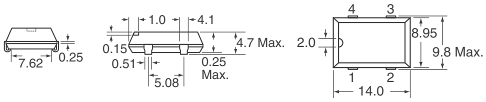

Pin	Function
1	Tri State Enable
2	GND/Case
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1.84320	535-9386-1-ND	2.44	2.28	1.95	1.47	535-9386-2-ND	910.00	ASML-1.8432MHZ-T
3.68640	535-9387-1-ND	2.44	2.28	1.95	1.47	535-9387-2-ND	910.00	ASML-3.6864MHZ-T
4.00000	535-9388-1-ND	2.44	2.28	1.95	1.47	535-9388-2-ND	910.00	ASML-4.000MHZ-T
8.00000	535-9389-1-ND	2.44	2.28	1.95	1.47	535-9389-2-ND	910.00	ASML-8.000MHZ-T
10.00000	535-9390-1-ND	2.44	2.28	1.95	1.47	535-9390-2-ND	910.00	ASML-10.000MHZ-T
14.31818	535-9393-1-ND	2.44	2.28	1.95	1.47	535-9393-2-ND	910.00	ASML-14.31818MHZ-T
16.00000	535-9394-1-ND	2.44	2.28	1.95	1.47	535-9394-2-ND	910.00	ASML-16.000MHZ-T
24.00000	535-9396-1-ND	2.44	2.28	1.95	1.47	535-9396-2-ND	910.00	ASML-24.000MHZ-T
24.57600	535-9397-1-ND	2.44	2.28	1.95	1.47	535-9397-2-ND	910.00	ASML-24.576MHZ-T
27.00000	535-9399-1-ND	2.44	2.28	1.95	1.47	535-9399-2-ND	910.00	ASML-27.000MHZ-T
32.00000	535-9400-1-ND	2.44	2.28	1.95	1.47	535-9400-2-ND	910.00	ASML-32.000MHZ-T
32.76800	535-9401-1-ND	2.44	2.28	1.95	1.47	535-9401-2-ND	910.00	ASML-32.768MHZ-T
33.00000	535-9402-1-ND	2.44	2.28	1.95	1.47	535-9402-2-ND	910.00	ASML-33.000MHZ-T
33.33300	535-9403-1-ND	2.44	2.28	1.95	1.47	535-9403-2-ND	910.00	ASML-33.333MHZ-T
48.00000	535-9405-1-ND	2.44	2.28	1.95	1.47	535-9405-2-ND	910.00	ASML-48.000MHZ-T
50.00000	535-9406-1-ND	2.44	2.28	1.95	1.47	535-9406-2-ND	910.00	ASML-50.000MHZ-T

ASV Series 5 x 7 SMD Oscillators

Specifications: • **Operating Temperature:** -20°C ~ 70°C • **Supply Voltage:** 3.3V ± 10% • **Frequency Tolerance:** ±20ppm (unless noted) **Features:** • HCMOS and TTL compatible

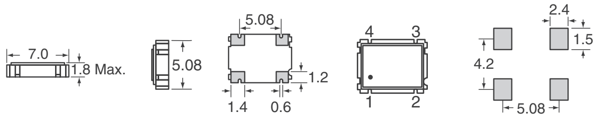

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1.84320	535-9315-1-ND	3.00	2.80	2.40	1.80	535-9315-2-ND	1120.00	ASV-1.8432MHZ-EJ-T
3.68640	535-9326-1-ND	3.00	2.80	2.40	1.80	535-9326-2-ND	1120.00	ASV-3.6864MHZ-EJ-T
4.00000	535-9329-1-ND	3.00	2.80	2.40	1.80	535-9329-2-ND	1120.00	ASV-4.000MHZ-EJ-T
7.37280	535-9331-1-ND	3.00	2.80	2.40	1.80	535-9331-2-ND	1120.00	ASV-7.3728MHZ-EJ-T
8.00000	535-9332-1-ND	3.00	2.80	2.40	1.80	535-9332-2-ND	1120.00	ASV-8.000MHZ-EJ-T
10.00000	535-9307-1-ND	3.00	2.80	2.40	1.80	535-9307-2-ND	1120.00	ASV-10.000MHZ-EJ-T
11.05920	535-9308-1-ND	3.00	2.80	2.40	1.80	535-9308-2-ND	1120.00	ASV-11.0592MHZ-EJ-T
12.00000	535-9309-1-ND	3.00	2.80	2.40	1.80	535-9309-2-ND	1120.00	ASV-12.000MHZ-EJ-T
14.31818	535-9310-1-ND	3.00	2.80	2.40	1.80	535-9310-2-ND	1120.00	ASV-14.31818MHZ-EJ-T
14.74560	535-9311-1-ND	3.00	2.80	2.40	1.80	535-9311-2-ND	1120.00	ASV-14.7456MHZ-EJ-T
16.00000	535-9312-1-ND	3.00	2.80	2.40	1.80	535-9312-2-ND	1120.00	ASV-16.000MHZ-EJ-T
16.38400	535-9313-1-ND	3.00	2.80	2.40	1.80	535-9313-2-ND	1120.00	ASV-16.384MHZ-EJ-T
18.43200	535-9314-1-ND	3.00	2.80	2.40	1.80	535-9314-2-ND	1120.00	ASV-18.432MHZ-EJ-T
20.00000	535-9316-1-ND	3.00	2.80	2.40	1.80	535-9316-2-ND	1120.00	ASV-20.000MHZ-EJ-T
24.00000	535-9317-1-ND	3.00	2.80	2.40	1.80	535-9317-2-ND	1120.00	ASV-24.000MHZ-EJ-T
24.57600	535-9318-1-ND	3.00	2.80	2.40	1.80	535-9318-2-ND	1120.00	ASV-24.576MHZ-EJ-T
25.00000	535-9319-1-ND	3.00	2.80	2.40	1.80	535-9319-2-ND	1120.00	ASV-25.000MHZ-EJ-T
27.00000	535-9320-1-ND	3.00	2.80	2.40	1.80	535-9320-2-ND	1120.00	ASV-27.000MHZ-EJ-T
29.49120	535-9321-1-ND	3.00	2.80	2.40	1.80	535-9321-2-ND	1120.00	ASV-29.4912MHZ-EJ-T
30.00000	535-9322-1-ND	3.00	2.80	2.40	1.80	535-9322-2-ND	1120.00	ASV-30.000MHZ-EJ-T
32.00000	535-9323-1-ND	3.00	2.80	2.40	1.80	535-9323-2-ND	1120.00	ASV-32.000MHZ-EJ-T
33.00000	535-9324-1-ND	3.00	2.80	2.40	1.80	535-9324-2-ND	1120.00	ASV-33.000MHZ-EJ-T
33.33300	535-9325-1-ND	3.00	2.80	2.40	1.80	535-9325-2-ND	1120.00	ASV-33.333MHZ-EJ-T
40.00000	535-9327-1-ND	3.00	2.80	2.40	1.80	535-9327-2-ND	1120.00	ASV-40.000MHZ-EJ-T
48.00000	535-9328-1-ND	3.00	2.80	2.40	1.80	535-9328-2-ND	1120.00	ASV-48.000MHZ-EJ-T
50.00000	535-9330-1-ND	3.00	2.80	2.40	1.80	535-9330-2-ND	1120.00	ASV-50.000MHZ-EJ-T
100.00000	300-8232-1-ND*	4.69	4.38	3.75	2.82	300-8232-2-ND*	1750.00	ASV-100.000MHZ-E-C-T
106.25000	300-8233-1-ND*	4.69	4.38	3.75	2.82	300-8233-2-ND*	1750.00	ASV-106.250MHZ-E-C-T
125.00000	300-8234-1-ND*	4.69	4.38	3.75	2.82	300-8234-2-ND*	1750.00	ASV-125.000MHZ-E-C-T
133.33000	300-8235-1-ND*	4.69	4.38	3.75	2.82	300-8235-2-ND*	1750.00	ASV-133.330MHZ-E-C-T
150.00000	300-8236-1-ND*	7.50	7.00	6.00	4.50	300-8236-2-ND*	2800.00	ASV-150.000MHZ-E-C-T

* Frequency Tolerance: ±50ppm

ASVTX-09 Series VCTCXO 3.2 x 5.0 SMD Oscillators

Specifications:• **Frequency Stability:** ±2.5ppm (-30°C ~ 75°C) • **Frequency Tolerance:** ±0.5ppm @ 25°C • **Operating Temperature:** -30°C ~ 85°C • **Supply Voltage:** 3V ±5%

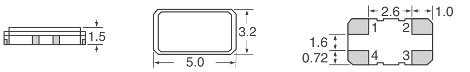

Pin	Function
1	Vcc
2	GND
3	Output
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
12.80	535-9333-1-ND	8.06	7.53	6.45	4.84	535-9333-2-ND	3010.00	ASVTX-09-12.800MHZ-T
13.00	535-9334-1-ND	8.06	7.53	6.45	4.84	535-9334-2-ND	3010.00	ASVTX-09-13.00MHZ-T
14.40	535-9335-1-ND	8.06	7.53	6.45	4.84	535-9335-2-ND	3010.00	ASVTX-09-14.400MHZ-T
16.00	535-9336-1-ND	8.06	7.53	6.45	4.84	535-9336-2-ND	3010.00	ASVTX-09-16.000MHZ-T
16.80	535-9337-1-ND	8.06	7.53	6.45	4.84	535-9337-2-ND	3010.00	ASVTX-09-16.800MHZ-T
19.20	535-9338-1-ND	8.06	7.53	6.45	4.84	535-9338-2-ND	3010.00	ASVTX-09-19.200MHZ-T
19.44	535-9339-1-ND	8.06	7.53	6.45	4.84	535-9339-2-ND	3010.00	ASVTX-09-19.440MHZ-T
20.00	535-9702-1-ND	8.06	7.53	6.45	4.84	535-9702-2-ND	3333.00	ASVTX-09-20.000MHZ-T
26.00	535-9340-1-ND	8.06	7.53	6.45	4.84	535-9340-2-ND	3010.00	ASVTX-09-26.000MHZ-T

ASVTX11 Series VCTCXO 3.2 x 2.5 SMD Oscillators

Specifications: • **Frequency Stability:** ±2.5ppm (-30°C ~ 75°C) • **Operating Temperature:** -30°C ~ 75°C • **Supply Voltage:** 3V ±5%

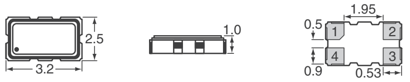

Pin	Function
1	GND
2	GND
3	Output
4	Vcc

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
13.000	535-9612-1-ND	7.88	6.75	5.07	4.50	535-9612-2-ND	3150.00	ASVTX-11-A-13.000MHZ-T
14.400	535-9613-1-ND	7.88	6.75	5.07	4.50	535-9613-2-ND	3150.00	ASVTX-11-A-14.400MHZ-T
16.357	535-9614-1-ND	7.88	6.75	5.07	4.50	535-9614-2-ND	3150.00	ASVTX-11-A-16.357MHZ-T
16.368	535-9615-1-ND	7.88	6.75	5.07	4.50	535-9615-2-ND	3150.00	ASVTX-11-A-16.368MHZ-T
19.200	535-9616-1-ND	7.88	6.75	5.07	4.50	535-9616-2-ND	3150.00	ASVTX-11-A-19.200MHZ-T
20.000	535-9617-1-ND	7.88	6.75	5.07	4.50	535-9617-2-ND	3150.00	ASVTX-11-A-20.000MHZ-T
24.576	535-9618-1-ND	7.88	6.75	5.07	4.50	535-9618-2-ND	3150.00	ASVTX-11-A-24.576MHZ-T
26.000	535-9619-1-ND	7.88	6.75	5.07	4.50	535-9619-2-ND	3150.00	ASVTX-11-A-26.000MHZ-T
33.600	535-9620-1-ND	7.88	6.75	5.07	4.50	535-9620-2-ND	3150.00	ASVTX-11-A-33.600MHZ-T
38.400	535-9621-1-ND	7.88	6.75	5.07	4.50	535-9621-2-ND	3150.00	ASVTX-11-A-38.400MHZ-T

ASVV Series VCXO 7 x 5 SMD Oscillators

Specifications: • **Frequency Stability:** ±50ppm (0°C ~ 70°C) • **Operating Temperature:** -40°C ~ 85°C • **Supply Voltage:** 3.3V ±5% • **Pullability (±) @ Voltage:** 150ppm @ 3VDC (N152); 100ppm @ 3VDC (N102)

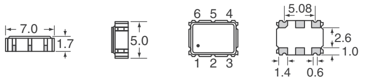

Pin	Function	Pin	Function
1	VC	4	Output
2	Tri State E/D	5	N/C
3	GND/Case	6	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1.544	535-9343-1-ND	4.95	4.62	3.96	2.97	535-9343-2-ND	1848.00	ASVV-1.544MHZ-N152
4.096	535-9351-1-ND	4.95	4.62	3.96	2.97	535-9351-2-ND	1848.00	ASVV-4.096MHZ-N152
6.176	535-9352-1-ND	4.95	4.62	3.96	2.97	535-9352-2-ND	1848.00	ASVV-6.176MHZ-N152
16.384	535-9341-1-ND	4.95	4.62	3.96	2.97	535-9341-2-ND	1848.00	ASVV-16.384MHZ-N152
19.440	535-9342-1-ND	4.95	4.62	3.96	2.97	535-9342-2-ND	1848.00	ASVV-19.440MHZ-N152
20.000	535-9344-1-ND	4.95	4.62	3.96	2.97	535-9344-2-ND	1848.00	ASVV-20.000MHZ-N152
27.000	535-9345-1-ND	4.95	4.62	3.96	2.97	535-9345-2-ND	1848.00	ASVV-27.000MHZ-N152
32.768	535-9346-1-ND	4.95	4.62	3.96	2.97	535-9346-2-ND	1848.00	ASVV-32.768MHZ-N152
35.328	535-9347-1-ND	4.95	4.62	3.96	2.97	535-9347-2-ND	1848.00	ASVV-35.328MHZ-N152
38.880	535-9348-1-ND	4.95	4.62	3.96	2.97	535-9348-2-ND	1848.00	ASVV-38.880MHZ-N152
40.000	535-9349-1-ND	4.95	4.62	3.96	2.97	535-9349-2-ND	1848.00	ASVV-40.000MHZ-N102
44.736	535-9350-1-ND	4.95	4.62	3.96	2.97	535-9350-2-ND	1848.00	ASVV-44.736MHZ-N102

CITIZEN™ CSX325F Series Ceramic SMT Oscillators

Specifications: • **Frequency Stability:** ±100ppm (-20°C ~ 70°C) • **Operating Temperature Range:** -40°C ~ 85°C • **Storage Temperature Range:** -55°C ~ 125°C • **Current Consumption:** 5mA (<30MHz) / 7mA Max. (<54MHz) • **Duty:** 40~60% • **Output Voltage:** VOH: 0.8 Vdd Min; VOL: 0.2Vdd max. • **Output Load:** CMOS 15pF max. • **Rise and Fall Time:** 10 nsec max. • **Start-up Time:** 10 msec max. • **Aging (first year):** ±2ppm

Pin Connection	
1	Open or Vdd
2	Gnd
3	Out
4	Vdd

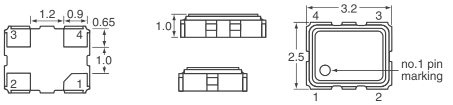

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
CSX325FJC — 3.3V							
12.500	300-8686-1-ND	4.69	4.38	2.82	300-8686-2-ND	2075.00/M	CSX325FJC12.500M-UT
13.500	300-8687-1-ND	4.69	4.38	2.82	300-8687-2-ND	2075.00/M	CSX325FJC13.500M-UT
20.000	300-8688-1-ND	4.69	4.38	2.82	300-8688-2-ND	2075.00/M	CSX325FJC20.000M-UT
22.000	300-8689-1-ND	4.69	4.38	2.82	300-8689-2-ND	2075.00/M	CSX325FJC22.000M-UT
24.000	300-8690-1-ND	4.69	4.38	2.82	300-8690-2-ND	2075.00/M	CSX325FJC24.000M-UT
25.000	300-8691-1-ND	4.69	4.38	2.82	300-8691-2-ND	2075.00/M	CSX325FJC25.000M-UT
27.000	300-8692-1-ND	4.69	4.38	2.82	300-8692-2-ND	2075.00/M	CSX325FJC27.000M-UT
40.000	300-8693-1-ND	4.69	4.38	2.82	300-8693-2-ND	2075.00/M	CSX325FJC40.000M-UT
44.000	300-8694-1-ND	4.69	4.38	2.82	300-8694-2-ND	2075.00/M	CSX325FJC44.000M-UT
48.000	300-8695-1-ND	4.69	4.38	2.82	300-8695-2-ND	2075.00/M	CSX325FJC48.000M-UT
CSX325FHC — 2.5V							
12.500	300-8696-1-ND	4.69	4.38	2.82	300-8696-2-ND	2075.00/M	CSX325FHC12.500M-UT
13.500	300-8697-1-ND	4.69	4.38	2.82	300-8697-2-ND	2075.00/M	CSX325FHC13.500M-UT
20.000	300-8698-1-ND	4.69	4.38	2.82	300-8698-2-ND	2075.00/M	CSX325FHC20.000M-UT
22.000	300-8699-1-ND	4.69	4.38	2.82	300-8699-2-ND	2075.00/M	CSX325FHC22.000M-UT
24.000	300-8700-1-ND	4.69	4.38	2.82	300-8700-2-ND	2075.00/M	CSX325FHC24.000M-UT
25.000	300-8701-1-ND	4.69	4.38	2.82	300-8701-2-ND	2075.00/M	CSX325FHC25.000M-UT
27.000	300-8702-1-ND	4.69	4.38	2.82	300-8702-2-ND	2075.00/M	CSX325FHC27.000M-UT
40.000	300-8703-1-ND	4.69	4.38	2.82	300-8703-2-ND	2075.00/M	CSX325FHC40.000M-UT
44.000	300-8704-1-ND	4.69	4.38	2.82	300-8704-2-ND	2075.00/M	CSX325FHC44.000M-UT
48.000	300-8705-1-ND	4.69	4.38	2.82	300-8705-2-ND	2075.00/M	CSX325FHC48.000M-UT

CSX325T Series SMD TCXO Oscillators

Specifications: • **Frequency Stability:** ±2.5ppm (-30°C ~ 75°C) • **Operating Temperature Range:** -30°C ~ 75°C • **Storage Temperature Range:** -40°C ~ 85°C • **Supply Voltage:** 2.4V ~ 3.0V • **Frequency Adjustment Range:** ±8ppm Min. • **Current Consumption:** 1.5mA (13 ~ 19.68MHz) / 2mA Max. (26MHz) • **Output Voltage:** 0.8Vp-p Min. • **Aging (first year):** ±1ppm

Pin Connection	
1	VC or Gnd
2	Gnd
3	Output
4	Vcc

Connection	Function
VC	VC-TCXO
GND	TCXO

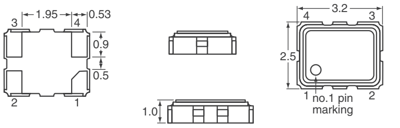

Supply Voltage	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 2,000	Citizen Part No.
2.8	13.000	300-8706-1-ND	6.25	4.63	4.13	3325.00/M	CSX325T13.000M2-UT10
	16.000	300-8708-1-ND	6.25	4.63	4.13	3325.00/M	CSX325T16.000M2-UT10
	19.200	300-8710-1-ND	6.25	4.63	4.13	3325.00/M	CSX325T19.200M2-UT10
	26.000	300-8712-1-ND	6.25	4.63	4.13	3325.00/M	CSX325T26.000M2-UT10
	33.600	300-8714-1-ND	6.25	4.63	4.13	3325.00/M	CSX325T33.600M2-UT10
	38.400	300-8716-1-ND	6.25	4.63	4.13	3325.00/M	CSX325T38.400M2-UT10
3.0	13.000	300-8707-1-ND	6.25	4.63	4.13	3325.00/M	CSX325T13.000M3-UT10
	16.000	300-8709-1-ND	6.25	4.63	4.13	3325.00/M	CSX325T16.000M3-UT10
	19.200	300-8711-1-ND	6.25	4.63	4.13	3325.00/M	CSX325T19.200M3-UT10
	26.000	300-8713-1-ND	6.25	4.63	4.13	3325.00/M	CSX325T26.000M3-UT10
	33.600	300-8715-1-ND	6.25	4.63	4.13	3325.00/M	CSX325T33.600M3-UT10
	38.400	300-8717-1-ND	6.25	4.63	4.13	3325.00/M	CSX325T38.400M3-UT10

* For Tape and Reel part number, change 1-ND to 2-ND.

CSX532T Series SMD TCXO Oscillators

Specifications:
• **Frequency Stability:** ±2.5ppm (-30°C ~ 75°C) • **Operating Temperature Range:** -30°C ~ 75°C • **Storage Temperature Range:** -40°C ~ 85°C • **Frequency Adjustment:** ±8ppm Min./ Vcont=Vdd/2±1.0V • **Output Voltage:** 0.8Vp-p Min.

Pin Connection	
1	VC or Gnd
2	Gnd
3	Output
4	Vcc

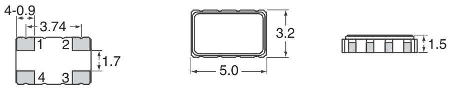

Supply Voltage	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 2,000	Citizen Part No.
2.4	13.0000	300-8720-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T13.000M1-UT10
	26.0000	300-8727-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T26.000M1-UT10
2.8	12.8000	300-8718-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T12.800M2-UT10
	13.0000	300-1100-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T13.000M2-UT10
	16.0000	300-8721-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T16.000M2-UT10
2.8	16.3676	300-8274-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T16.3676M2-UT-10
	16.8000	300-1101-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T16.800M2-UT10
	19.2000	300-1102-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T19.200M2-UT10
	19.8000	300-8724-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T19.800M2-UT10
	20.0000	300-8725-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T20.000M2-UT10
	24.5535	300-8276-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T24.5535M2-UT-10
	26.0000	300-1103-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T26.000M2-UT10
3.0	12.8000	300-8719-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T12.800M3-UT10
	13.0000	300-1104-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T13.000M3-UT10
	16.0000	300-8722-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T16.000M3-UT10
	16.3676	300-8275-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T16.3676M3-UT-10
	16.8000	300-1105-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T16.800M3-UT10
	19.2000	300-1106-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T19.200M3-UT10
	19.6800	300-8723-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T19.680M3-UT10
	20.0000	300-8726-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T20.000M3-UT10
	24.5535	300-8277-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T24.5535M3-UT-10
	26.0000	300-1107-1-ND	5.00	3.70	3.30	2660.00/M	CSX532T26.000M3-UT10

* For Tape and Reel part number, change 1-ND to 2-ND.

CSX-750FCC, FBC, FJC Series SMD Oscillators

SPECIFICATIONS	CSX-750FCC		CSX-750FBC	CSX-750FJC
Frequency Range (MHz):	1.000 ~ 39.999	40.000 ~ 70.000	1.000 ~ 39.999	40.000 ~ 80.000
Frequency Stability:	C: ±100ppm @ (-20°C ~ 70°C)			
Operating Temperature:	-40°C ~ 85°C			
Storage Temperature:	-55°C ~ 125°C			
Supply Voltage:	Vdd: 5.0V±0.5V		Vdd: 3.3V±0.3V	Vdd: 3.3V±0.3V
Supply Current:	25mA Max.	45mA Max.	15mA Max.	25mA Max.
Duty: TTL Level (1.4V):	40% ~ 60%		—	—
CMOS Level (VDD/2):	45% ~ 55%			
Output Voltage: VOH:	0.9V Min.			
VOL:	0.4V Max.		0.1V Max.	0.1V Max.
Output Load: TTL:	10TTL Max.		—	—
CMOS:	50pF Max.		30pF Max.	30pF Max.
Rise & Fall Time: CMOS:	tr, tf: 8nsec Max.	tr, tf: 6nsec Max.	tr, tf: 8nsec Max.	tr, tf: 6nsec Max.
Start Up Time:	4msec Max.	10msec Max.	4msec Max.	10msec Max.
Input (OE) Voltage:	V IH: 2.0V Min.		V IH: 2.0V Min.	V IH: 0.7VDD Min.
	V IL: 0.8V Max.		V IL: 0.4V Max.	V IL: 0.3VDD Max.
Disable Current: FC, FB	10mA Max.	20mA Max.	5mA Max.	—
Stand-by Current: FJ	—	—	—	10μA Max.
Shock Resistance	±20ppm Max. *(75cm height drop on hardwood board 3 times.)*			

Pin Connection	
1	OE or Standby
2	Gnd
3	Out
4	Vdd

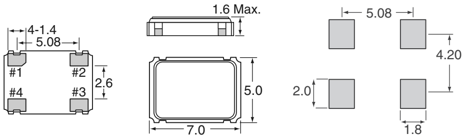

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 2,000	Citizen Part No.
CSX750FBC						
1.843200	300-7230-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC1.8432M-UT
3.686400	300-7231-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC3.6864M-UT
4.000000	300-7232-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC4.000M-UT
7.372800	300-7233-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC7.3728M-UT
8.000000	300-7234-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC8.000M-UT
10.000000	300-7235-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC10.000M-UT
12.000000	300-7236-1-ND	3.00	2.80	2.40	1120.00/M	CSX750FBC12.000M-UT
12.288000	300-7237-1-ND	3.00	2.80	2.40	1120.00/M	CSX750FBC12.288M-UT
14.318180	300-7238-1-ND	3.00	2.80	2.40	1120.00/M	CSX750FBC14.31818M-UT
14.745600	300-7239-1-ND	3.00	2.80	2.40	1120.00/M	CSX750FBC14.7456M-UT
16.000000	300-7240-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC16.000M-UT
16.384000	300-7241-1-ND	3.00	2.80	2.40	1120.00/M	CSX750FBC16.384M-UT
18.432000	300-7242-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC18.432M-UT
20.000000	300-7243-1-ND	3.00	2.80	2.40	1120.00/M	CSX750FBC20.000M-UT
24.000000	300-7244-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC24.000M-UT
24.576000	300-7245-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC24.576M-UT
25.000000	300-7246-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC25.000M-UT
27.000000	300-7247-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC27.000M-UT
29.491200	300-7248-1-ND	3.00	2.80	2.40	1120.00/M	CSX750FBC29.4912M-UT
32.000000	300-7249-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC32.000M-UT
32.768000	300-7250-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC32.768M-UT
33.333000	300-7251-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC33.333M-UT
35.328000	300-7252-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC35.328M-UT
CSX750FCC						
1.843200	300-7200-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC1.8432M-UT
3.686400	300-7201-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC3.6864M-UT
4.000000	300-7202-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC4.000M-UT
7.372800	300-7203-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC7.3728M-UT
8.000000	300-7204-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC8.000M-UT
10.000000	300-7205-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC10.000M-UT
12.000000	300-7206-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC12.000M-UT
12.288000	300-7207-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC12.288M-UT
14.318180	300-7208-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC14.31818M-UT
14.745600	300-7209-1-ND	3.00	2.80	2.40	1120.00/M	CSX750FCC14.7456M-UT
16.000000	300-7210-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC16.000M-UT
16.384000	300-7211-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC16.384M-UT
18.432000	300-7212-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC18.432M-UT
20.000000	300-7213-1-ND	3.00	2.80	2.40	1120.00/M	CSX750FCC20.000M-UT
24.000000	300-7214-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC24.000M-UT
24.576000	300-7215-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC24.576M-UT
25.000000	300-7216-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC25.000M-UT
27.000000	300-7217-1-ND	3.00	2.80	2.40	1120.00/M	CSX750FCC27.000M-UT

* For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

CITIZEN™ CSX-750FCC, FBC, FJC Series SMD Oscillators *(Cont.)*

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 2,000	Citizen Part No.
29.491200	300-7218-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC29.4912M-UT
32.000000	300-7219-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC32.000M-UT
32.768000	300-7220-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC32.768M-UT
33.333000	300-7221-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC33.333M-UT
35.328000	300-7222-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC35.328M-UT
40.000000	300-7223-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC40.000M-UT
44.000000	300-7224-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC44.000M-UT
45.000000	300-7225-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC45.000M-UT
49.152000	300-7226-1-ND	3.38	3.15	2.70	—	CSX750FCC49.152M-UT
50.000000	300-7227-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC50.000M-UT
60.000000	300-7228-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC60.000M-UT
66.666000	300-7229-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC66.666M-UT
CSX750FJC						
40.000000	300-7253-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC40.000M-UT
44.000000	300-7254-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC44.000M-UT
45.000000	300-7255-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC45.000M-UT
49.152000	300-7256-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC49.152M-UT
50.000000	300-7257-1-ND	3.00	2.80	2.40	1120.00/M	CSX750FJC50.000M-UT
60.000000	300-7258-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC60.000M-UT
66.666000	300-7259-1-ND	3.00	2.80	2.40	1120.00/M	CSX750FJC66.666M-UT
80.000000	300-8191-1-ND	4.69	4.38	3.75	1750.00/M	CSX750FJB80.000M-UT
80.000000	300-8231-1-ND	3.94	3.68	3.15	1470.00/M	CSX750FJC80.000M-UT

* For Tape and Reel part number, change 1-ND to 2-ND.

CSX-750A Series High Frequency Ceramic Surface Mount Clock Oscillators

Specifications: • **CSX750AC:** 10TTL/30pF, OE, 5.0V operation type • **CSX750AB:** 15pF, OE, 3.3V operation type • **Nominal Frequency:** CSX750AC/AB 70.0 ~ 140.0MHz • **Operating Temperature:** -40°C ~ 85°C • **Supply Voltage:** CSX750AC 5.0 ±0.5V, CSX750AB 3.3 ±0.3V • **Frequency Stability:** B: ±50ppm(-20°C ~ 70°C) • **Current Consumption:** 50mA Max (CSX750AC), 30mA Max (CSX750AB) • **Duty Cycle:** 40% ~ 60% (TTL level), 45% ~ 55%(CMOS level)

Pin Connection	
1	OE or Standby
2	Gnd
3	Out
4	Vdd

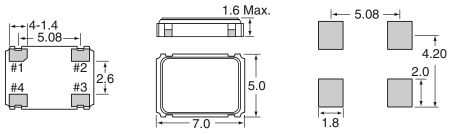

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
106.250	300-8154-1-ND	4.13	3.38	3.00	300-8154-2-ND	2100.00/M	CSX750ABB106.250MTR
106.250	300-8148-1-ND	4.13	3.38	3.00	300-8148-2-ND	2100.00/M	CSX750ACB106.250MTR
133.330	300-8150-1-ND	4.13	3.38	3.00	—	—	CSX750ACB133.330MTR

CSX-750V Series Voltage Controlled Crystal Oscillators

Specifications: • **CSX750VJ:** 2TTL/30pF, OE<pin#5>, ±100ppm Pullability, 5.0V operation type • **CSX-750VB:** 30pF, OE<pin#5>, ±90ppm Pullability, 3.3V operation type • **Nominal Frequency:** CSX750VJB/VKB 4.096 ~ 35.328MHz • **Operating Temperature:** -40°C ~ 85°C • **Supply Voltage:** CSX750VC 5.0 ±0.5V, CSX750VB 3.3 ±0.3V • **Frequency Stability:** B: ±50ppm(-10°C ~ 70°C) • **Current Consumption:** 30mA Max. (CSX750VJ), 11mA Max. (CSX750VK) • **Duty Cycle:** 40% ~ 60% (TTL level), 45% ~ 55% (CMOS level) • **Pullability:** ±100ppm Min./Vc=2.5V±2.0V, ±90ppm Min./1.65V±1.65V • **Modulation Band Width:** 10kHz Min./gain-3dB • **Phase Noise:** -120dBc/Hz Max./offset 1kHz

Pin Connection	
1	VC
2	NC
3	Gnd
4	Out
5	OE
6	Vdd

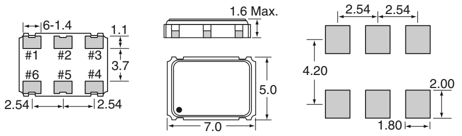

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
4.096	300-8173-1-ND	4.13	3.38	3.00	—	—	CSX750VKB4.096M-UT
4.096	300-8157-1-ND	4.13	3.38	3.00	—	—	CSX750VJB4.096M-UT
8.000	300-8174-1-ND	4.13	3.38	3.00	300-8174-2-ND	2100.00/M	CSX750VKB8.000M-UT
8.000	300-8158-1-ND	4.13	3.38	3.00	300-8158-2-ND	2100.00/M	CSX750VJB8.000M-UT
8.192	300-8175-1-ND	4.13	3.38	3.00	—	—	CSX750VKB8.192M-UT
12.288	300-8160-1-ND	4.13	3.38	3.00	—	—	CSX750VJB12.288M-UT
12.352	300-8177-1-ND	4.13	3.38	3.00	—	—	CSX750VKB12.352M-UT
12.352	300-8161-1-ND	4.13	3.38	3.00	300-8161-2-ND	2100.00/M	CSX750VJB12.352M-UT
13.500	300-8178-1-ND	8.25	6.75	6.00	300-8178-2-ND	2800.00/M	CSX750VKB13.500M-UT
13.500	300-8162-1-ND	8.25	6.75	6.00	300-8162-2-ND	2800.00/M	CSX750VJB13.500M-UT
16.384	300-8163-1-ND	4.13	3.38	3.00	300-8163-2-ND	2100.00/M	CSX750VJB16.384M-UT
19.440	300-8164-1-ND	4.13	3.38	3.00	300-8164-2-ND	2100.00/M	CSX750VJB19.440M-UT
24.704	300-8183-1-ND	4.13	3.38	3.00	—	—	CSX750VKB24.704M-UT
24.704	300-8167-1-ND	4.13	3.38	3.00	300-8167-2-ND	2100.00/M	CSX750VJB24.704M-UT
25.000	300-8168-1-ND	4.13	3.38	3.00	—	—	CSX750VJB25.000M-UT
27.000	300-8169-1-ND	4.13	3.38	3.00	—	—	CSX750VJB27.000M-UT
32.000	300-8186-1-ND	4.13	3.38	3.00	300-8186-2-ND	2100.00/M	CSX750VKB32.000M-UT
32.000	300-8170-1-ND	4.13	3.38	3.00	—	—	CSX750VJB32.000M-UT
32.768	300-8171-1-ND	4.13	3.38	3.00	—	—	CSX750VJB32.768M-UT
35.328	300-8188-1-ND	4.13	3.38	3.00	300-8188-2-ND	2100.00/M	CSX750VKB35.328M-UT
35.328	300-8172-1-ND	4.13	3.38	3.00	—	—	CSX750VJB35.328M-UT

CMX309FLC Series Oscillators

Specifications:
• **Frequency Tolerance:** ±100ppm (-20°C ~ 70°C) • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Supply Voltage:** 5V ±0.5V • **Supply Current:** 23mA Max. • **Duty @ TTL Level (1.4V):** 45% ~ 55% • **Duty @ CMOS Level (VDD/2):** 40% ~ 60% • **Output Voltage:** -0.4V (VOH) Min. • **Output Voltage:** 0.4V (VOL) Max. • **Output Load TTL:** 10TTL Max. • **Output Load CMOS:** 50pF Max. • **Rise Time TTL:** 8ns Max. • **Fall Time TTL:** 8ns Max. • **Rise Time CMOS:** 8ns Max. • **Fall Time CMOS:** 8ns Max. • **Start-up Time:** 4ms Max. • **Output Enable-Voltage:** 2V (VIH) Min. • **Output Enable-Voltage:** 0.8V (VIL) Max. • **Disable Current:** 12mA Max. • **Aging (First Year):** ±5ppm Max.

Pin Connection	
1	OE
2	Gnd
3	Out
4	Vdd

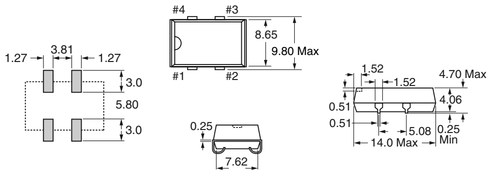

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
1.54400	300-7001-1-ND	3.00	2.80	1.80	—	—	CMX309FLC1.544MT
3.07200	300-7006-1-ND	3.00	2.80	1.80	300-7006-2-ND	1328.00	CMX309FLC3.072MT
3.579545	300-7007-1-ND	3.00	2.80	1.80	300-7007-2-ND	1328.00	CMX309FLC3.579545MT
6.14400	300-7014-1-ND	3.00	2.80	1.80	300-7014-2-ND	1328.00	CMX309FLC6.144MT
8.19200	300-7017-1-ND	3.00	2.80	1.80	300-7017-2-ND	1328.00	CMX309FLC8.192MT
9.83040	300-7018-1-ND	3.00	2.80	1.80	—	—	CMX309FLC9.8304MT
11.00000	300-7021-1-ND	3.00	2.80	1.80	300-7021-2-ND	1328.00	CMX309FLC11.000MT
11.28960	300-7023-1-ND	3.00	2.80	1.80	300-7023-2-ND	1328.00	CMX309FLC11.2896MT
12.35200	300-7026-1-ND	3.00	2.80	1.80	300-7026-2-ND	1328.00	CMX309FLC12.352MT
13.50000	300-7027-1-ND	3.00	2.80	1.80	300-7027-2-ND	1328.00	CMX309FLC13.500MT
14.31818	300-7028-1-ND	3.00	2.80	1.80	300-7028-2-ND	1328.00	CMX309FLC14.31818MT
16.38400	300-7034-1-ND	3.00	2.80	1.80	300-7034-2-ND	1328.00	CMX309FLC16.384MT
16.66660	300-7035-1-ND	3.00	2.80	1.80	300-7035-2-ND	1328.00	CMX309FLC16.6666MT
18.00000	300-7037-1-ND	3.00	2.80	1.80	300-7037-2-ND	1328.00	CMX309FLC18.000MT
18.43200	300-7038-1-ND	3.00	2.80	1.80	300-7038-2-ND	1328.00	CMX309FLC18.432MT
19.66080	300-7039-1-ND	3.00	2.80	1.80	—	—	CMX309FLC19.6608MT
24.00000	300-7042-1-ND	3.00	2.80	1.80	300-7042-2-ND	1328.00	CMX309FLC24.000MT
25.17500	300-7045-1-ND	3.00	2.80	1.80	—	—	CMX309FLC25.175MT
27.00000	300-7046-1-ND	3.00	2.80	1.80	300-7046-2-ND	1328.00	CMX309FLC27.000MT
28.32200	300-7047-1-ND	3.00	2.80	1.80	—	—	CMX309FLC28.322MT
28.63636	300-7048-1-ND	3.00	2.80	1.80	—	—	CMX309FLC28.63636MT
29.498928	300-7049-1-ND	3.00	2.80	1.80	300-7049-2-ND	1328.00	CMX309FLC29.498928MT
30.00000	300-7050-1-ND	3.00	2.80	1.80	—	—	CMX309FLC30.000MT
RoHS Compliant							
2.45760	300-8584-1-ND	2.63	2.45	1.58	—	—	CMX309FLC2.4576M-UT
3.579545	300-8586-1-ND	3.00	2.80	1.80	—	—	CMX309FLC3.579545M-UT
3.68640	300-8587-1-ND	2.63	2.45	1.58	300-8587-2-ND	1162.00	CMX309FLC3.6864M-UT
4.00000	300-8588-1-ND	2.63	2.45	1.58	—	—	CMX309FLC4.000M-UT
4.09600	300-8589-1-ND	2.63	2.45	1.58	—	—	CMX309FLC4.096M-UT
4.91520	300-8590-1-ND	2.63	2.45	1.58	300-8590-2-ND	1162.00	CMX309FLC4.9152M-UT
5.00000	300-8591-1-ND	2.63	2.45	1.58	300-8591-2-ND	1162.00	CMX309FLC5.000M-UT
6.00000	300-8592-1-ND	3.00	2.80	1.80	—	—	CMX309FLC6.000M-UT
6.14400	300-8593-1-ND	3.00	2.80	1.80	—	—	CMX309FLC6.144M-UT
7.37280	300-8594-1-ND	3.00	2.80	1.80	—	—	CMX309FLC7.3728M-UT
8.00000	300-8595-1-ND	2.63	2.45	1.58	300-8595-2-ND	1162.00	CMX309FLC8.000M-UT
8.19200	300-8596-1-ND	2.63	2.45	1.58	—	—	CMX309FLC8.192M-UT
9.83040	300-8597-1-ND	2.63	2.45	1.58	—	—	CMX309FLC9.8304M-UT
11.28960	300-8600-1-ND	2.63	2.45	1.58	300-8600-2-ND	1162.00	CMX309FLC11.2896M-UT
12.28800	300-8602-1-ND	2.63	2.45	1.58	300-8602-2-ND	1162.00	CMX309FLC12.288M-UT
13.50000	300-8603-1-ND	3.00	2.80	1.80	—	—	CMX309FLC13.500M-UT
14.31818	300-8604-1-ND	2.63	2.45	1.58	300-8604-2-ND	1162.00	CMX309FLC14.31818M-UT
15.36000	300-8606-1-ND	3.00	2.80	1.80	—	—	CMX309FLC15.360M-UT
16.38400	300-8608-1-ND	2.63	2.45	1.58	—	—	CMX309FLC16.384M-UT
17.734475	300-8609-1-ND	3.00	2.80	1.80	300-8609-2-ND	1328.00	CMX309FLC17.734475M-UT
18.00000	300-8610-1-ND	3.00	2.80	1.80	—	—	CMX309FLC18.000M-UT
18.43200	300-8611-1-ND	2.63	2.45	1.58	—	—	CMX309FLC18.432M-UT
22.11840	300-8614-1-ND	2.63	2.45	1.58	300-8614-2-ND	1162.00	CMX309FLC22.1184M-UT
24.00000	300-8615-1-ND	2.63	2.45	1.58	—	—	CMX309FLC24.000M-UT
25.00000	300-8617-1-ND	2.63	2.45	1.58	300-8617-2-ND	1162.00	CMX309FLC25.000M-UT
27.00000	300-8619-1-ND	2.63	2.45	1.58	—	—	CMX309FLC27.000M-UT
28.32200	300-8620-1-ND	2.63	2.45	1.58	300-8620-2-ND	1162.00	CMX309FLC28.322M-UT
28.63636	300-8621-1-ND	3.00	2.80	1.80	—	—	CMX309FLC28.63636M-UT
30.00000	300-8623-1-ND	2.63	2.45	1.58	—	—	CMX309FLC30.000M-UT

CITIZEN™

CMX309FBC Series Oscillators

Specifications:

- **Frequency Tolerance:** ±100ppm (-20°C ~ 70°C)
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Supply Voltage:** 3.3V ±0.3V • **Supply Current:** 9mA Max.
- **Duty @ CMOS Level (VDD/2):** 40% ~ 60%
- **Output Voltage:** -0.4V (VOH) Min.
- **Output Voltage:** 0.4V (VOL) Max.
- **Rise Time CMOS:** 6ns Max.
- **Fall Time CMOS:** 6ns Max.
- **Start-up Time:** 4ms Max.
- **Output Enable-Voltage:** 2V (VIH) Min.
- **Output Enable-Voltage:** 0.8V (VIL) Max.
- **Disable Current:** 5mA Max.
- **Aging (First Year):** ±5ppm Max.

Pin Connection	
1	OE
2	Gnd
3	Out
4	Vdd

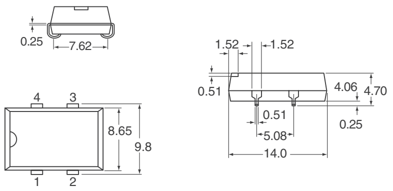

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
1.54400	300-2101-1-ND	2.81	2.63	1.69	300-2101-2-ND	1245.00	CMX309FBC1.544MTR
1.84320	300-2102-1-ND	2.81	2.63	1.69	—	—	CMX309FBC1.8432MTR
2.00000	300-2103-1-ND	2.81	2.63	1.69	300-2103-2-ND	1245.00	CMX309FBC2.000MTR
2.45760	300-2105-1-ND	2.81	2.63	1.69	—	—	CMX309FBC2.4576MTR
3.68640	300-2106-1-ND	2.81	2.63	1.69	—	—	CMX309FBC3.6864MTR
4.00000	300-2107-1-ND	2.81	2.63	1.69	300-2107-2-ND	1245.00	CMX309FBC4.000MTR
5.00000	300-2108-1-ND	2.81	2.63	1.69	300-2108-2-ND	1245.00	CMX309FBC5.000MTR
8.00000	300-2109-1-ND	2.81	2.63	1.69	—	—	CMX309FBC8.000MTR
8.19200	300-2110-1-ND	2.81	2.63	1.69	—	—	CMX309FBC8.192MTR
9.83040	300-2111-1-ND	2.81	2.63	1.69	—	—	CMX309FBC9.8304MTR
14.74560	300-2118-1-ND	2.81	2.63	1.69	300-2118-2-ND	1245.00	CMX309FBC14.7456MTR
16.00000	300-2119-1-ND	2.81	2.63	1.69	—	—	CMX309FBC16.000MTR
16.38400	300-2120-1-ND	2.81	2.63	1.69	300-2120-2-ND	1245.00	CMX309FBC16.384MTR
18.43200	300-2121-1-ND	2.81	2.63	1.69	—	—	CMX309FBC18.432MTR
20.00000	300-2122-1-ND	2.81	2.63	1.69	—	—	CMX309FBC20.000MTR
24.00000	300-2123-1-ND	2.81	2.63	1.69	300-2123-2-ND	1245.00	CMX309FBC24.000MTR
RoHS Compliant							
1.00000	300-8366-1-ND	2.63	2.45	1.58	—	—	CMX309FBC1.000M-UT
1.84320	300-8368-1-ND	2.63	2.45	1.58	300-8368-2-ND	1162.00	CMX309FBC1.8432M-UT
2.00000	300-8369-1-ND	2.63	2.45	1.58	—	—	CMX309FBC2.000M-UT
2.45760	300-8371-1-ND	2.63	2.45	1.58	—	—	CMX309FBC2.4576M-UT
3.68640	300-8372-1-ND	2.63	2.45	1.58	300-8372-2-ND	1162.00	CMX309FBC3.6864M-UT
5.00000	300-8374-1-ND	2.63	2.45	1.58	—	—	CMX309FBC5.000M-UT
8.00000	300-8375-1-ND	2.63	2.45	1.58	300-8375-2-ND	1162.00	CMX309FBC8.000M-UT
8.19200	300-8376-1-ND	2.63	2.45	1.58	300-8376-2-ND	1162.00	CMX309FBC8.192M-UT
9.83040	300-8377-1-ND	2.63	2.45	1.58	—	—	CMX309FBC9.8304M-UT
14.31818	300-8383-1-ND	2.63	2.45	1.58	—	—	CMX309FBC14.31818M-UT
14.74560	300-8384-1-ND	2.63	2.45	1.58	300-8384-2-ND	1162.00	CMX309FBC14.7456M-UT
16.00000	300-8385-1-ND	2.63	2.45	1.58	300-8385-2-ND	1162.00	CMX309FBC16.000M-UT
16.38400	300-8386-1-ND	2.63	2.45	1.58	—	—	CMX309FBC16.384M-UT
18.43200	300-8387-1-ND	2.63	2.45	1.58	—	—	CMX309FBC18.432M-UT
20.00000	300-8388-1-ND	2.63	2.45	1.58	—	—	CMX309FBC20.000M-UT
24.00000	300-8389-1-ND	2.63	2.45	1.58	—	—	CMX309FBC24.000M-UT
25.00000	300-8391-1-ND	2.63	2.45	1.58	—	—	CMX309FBC25.000M-UT

CMX309HWC Series Oscillators

Specifications: • **Frequency Tolerance:** ±100ppm (-20°C ~ 70°C) • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Supply Voltage:** 5V ±0.5V • **Supply Current:** 35mA Max. • **Duty @ TTL Level (1.4V):** 45% ~ 55% • **Duty @ CMOS Level (VDD/2):** 40% ~ 60% • **Output Voltage:** -0.5V (VOH) Min. • **Output Voltage:** 0.5V (VOL) Max. • **Output Load TTL:** 10TTL Max. • **Output Load CMOS:** 50pF Max. • **Rise Time TTL:** 5ns Max. • **Fall Time TTL:** 5ns Max. • **Rise Time CMOS:** 7ns Max. • **Fall Time CMOS:** 7ns Max. • **Start-up Time:** 10ms Max. • **Output Enable-Voltage:** 2V (VIH) Min. • **Output Enable-Voltage:** 0.8V (VIL) Max. • **Disable Current:** 28mA Max. • **Aging (First Year):** ±5ppm Max.

Pin Connection	
1	OE
2	Gnd
3	Out
4	Vdd

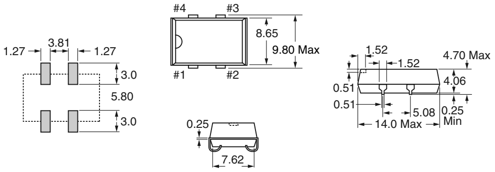

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
32.7680	300-7102-1-ND	3.00	2.80	1.80	300-7102-2-ND	1328.00	CMX309HWC32.768MT
33.0000	300-7103-1-ND	3.00	2.80	1.80	—	—	CMX309HWC33.000MT
33.3333	300-7104-1-ND	3.00	2.80	1.80	—	—	CMX309HWC33.3333MT
44.2368	300-7108-1-ND	3.00	2.80	1.80	300-7108-2-ND	1328.00	CMX309HWC44.2368MT
49.1520	300-7110-1-ND	3.00	2.80	1.80	—	—	CMX309HWC49.152MT
50.0000	300-7111-1-ND	3.19	2.98	1.92	300-7111-2-ND	1411.00	CMX309HWC50.000MT
53.1250	300-7112-1-ND	3.00	2.80	1.80	300-7112-2-ND	1328.00	CMX309HWC53.125MT
60.0000	300-7113-1-ND	3.00	2.80	1.80	300-7113-2-ND	1328.00	CMX309HWC60.000MT
66.6667	300-7116-1-ND	3.00	2.80	1.80	—	—	CMX309HWC66.6667MT
RoHS Compliant							
32.0000	300-8624-1-ND	2.63	2.45	1.58	300-8624-2-ND	1162.00	CMX309HWC32.000M-UT
32.7680	300-8625-1-ND	2.63	2.45	1.58	—	—	CMX309HWC32.768M-UT
33.0000	300-8626-1-ND	2.63	2.45	1.58	—	—	CMX309HWC33.000M-UT
48.0000	300-8629-1-ND	2.63	2.45	1.58	300-8629-2-ND	1162.00	CMX309HWC48.000M-UT
50.0000	300-8631-1-ND	2.63	2.45	1.58	—	—	CMX309HWC50.000M-UT

CMX309HBC Series Oscillators

Specifications:

• **Frequency Tolerance:** ±100ppm (-20°C ~ 70°C) • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Supply Voltage:** 3.3V ±0.3V • **Duty Cycle @ CMOS Level:** 40% ~ 60% • **Output Voltage:** -0.4V (VOH) Min. • **Output Voltage:** 0.4V (VOL) Max. • **Rise Time CMOS:** 6ns Max. • **Fall Time CMOS:** 6ns Max. • **Start-up Time:** 10ms Max. • **Output Enable-Voltage:** 2.4V (VIH) Min. • **Output Enable-Voltage:** 0.6V (VIL) Max. • **Output Load CMOS:** 30pF Max. • **Disable Current:** 15mA Max. • **Aging (First Year):** ±5ppm Max.

Pin Connection	
1	OE
2	Gnd
3	Out
4	Vdd

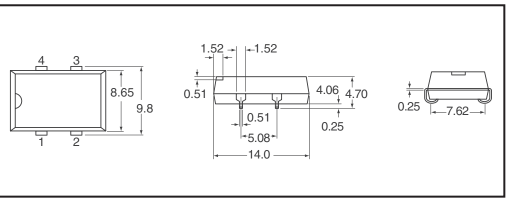

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
32.0000	300-2200-1-ND	2.81	2.63	1.69	300-2200-2-ND	1245.00	CMX309HBC32.000MTR
32.7680	300-2201-1-ND	2.81	2.63	1.69	300-2201-2-ND	1245.00	CMX309HBC32.768MTR
33.0000	300-2202-1-ND	2.81	2.63	1.69	300-2202-2-ND	1245.00	CMX309HBC33.000MTR
33.3333	300-2203-1-ND	2.81	2.63	1.69	300-2203-2-ND	1245.00	CMX309HBC33.3333MTR
36.8640	300-2204-1-ND	2.81	2.63	1.69	300-2204-2-ND	1245.00	CMX309HBC36.864MTR
53.1250	300-2208-1-ND	2.81	2.63	1.69	300-2208-2-ND	1245.00	CMX309HBC53.125MTR
RoHS Compliant							
32.0000	300-8393-1-ND	2.63	2.45	1.58	—	—	CMX309HBC32.000M-UT
32.7680	300-8394-1-ND	2.63	2.45	1.58	300-8394-2-ND	1162.00	CMX309HBC32.768M-UT
33.0000	300-8395-1-ND	2.63	2.45	1.58	—	—	CMX309HBC33.000M-UT
33.3333	300-8396-1-ND	2.63	2.45	1.58	300-8396-2-ND	1162.00	CMX309HBC33.3333M-UT
40.0000	300-8398-1-ND	2.63	2.45	1.58	300-8398-2-ND	1162.00	CMX309HBC40.000M-UT
48.0000	300-8399-1-ND	2.63	2.45	1.58	300-8399-2-ND	1162.00	CMX309HBC48.000M-UT

CITIZEN™ 32.768kHz Tuning Fork Crystals

RoHS COMPLIANT

SPECIFICATIONS:

• **Frequency:** 32.768kHz • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Drive Level:** 1µW • **Aging (First Year):** ±3ppm Max. @ 25°C ±3°C

FEATURES:

CMR200T Series: • Lead formed SMD type with embossed tape • Automatic mounting and reflowable type • Most appropriate for clock source for portable and other various equipment with low power consumption

CMJ206T Series: • High-density mounting SMD with jacket • Automatic mounting and reflowable type • Most appropriate for clock source for portable and other various equipment with low power consumption

CM130 Series: • Most appropriate for high-density circuit board by the small surface mount type • Embedded with heat resistant cylinder type crystal bring highly stable characteristics • Suitable for small mobile telecommunications devices

CM315 and CM415 Series: • Tuning fork crystal with ceramic package type • High-density SMD type • High-stability assured with tight vacuum sealing • Most appropriate for portable devices and mobile telecommunications devices

CM519 Series: • Tuning fork crystal with ceramic package type • Small and thin packaging and light weight • Most appropriate for portable devices and mobile telecommunications devices

CM200S Series: • Embedded with heat resistant cylinder type crystal bring highly stable characteristics • Automatic mounting and reflowable type • Most appropriate for clock source for portable and automotive equipment with low power consumption.

Fig. 1

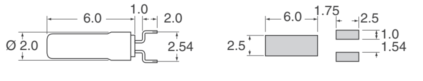

Fig. 2

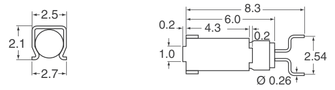

Fig. 3

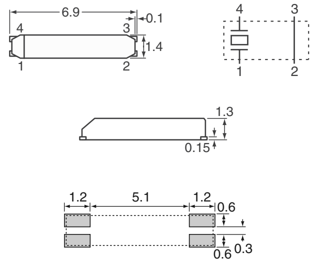

Fig. 4

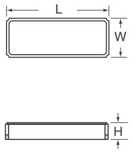

Dimensions (mm)			
Series	**L**	**W**	**H (max.)**
CM315	3.2	1.5	0.9
CM415	4.1	1.5	0.9
CM519	4.9	1.8	1.0

Fig. 5

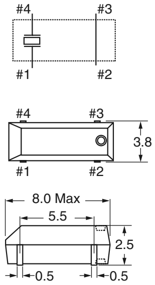

Fig.	Load Capacitance (pF)	Shunt Capacitance (pF)	Frequency Tolerance @ 25°C	ESR @ 25°C (Max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Citizen Part No.
Cylinder Type Tuning Fork Crystals — SMT												
1	6.0	1.35	±20ppm	50kΩ	300-8341-1-ND	.63	.54	.41	300-8341-2-ND	2,000	252.00/M	CMR200T32.768KDZB-UT
	7.0		±20ppm	50kΩ	300-8736-1-ND	.63	.54	.41	300-8736-2-ND	2,000	252.00/M	CMR200T32.768KDZY-UT
	12.5		±20ppm	50kΩ	300-8340-1-ND	.63	.54	.41	300-8340-2-ND	2,000	252.00/M	CMR200T32.768KDZF-UT
2	6.0	1.35	±20ppm	50kΩ	300-8664-1-ND	.77	.66	.50	300-8664-2-ND	3,000	308.00/M	CMJ206T32.768KDZB-UT
	12.5		±20ppm	50kΩ	300-8663-1-ND	.77	.66	.50	300-8663-2-ND	3,000	308.00/M	CMJ206T32.768KDZF-UT
Surface Mount Tuning Fork Crystals												
3	12.5	1.20	±20ppm	65kΩ	300-8633-1-ND	.94	.77	.68	300-8633-2-ND	3,000	619.00/M	CM130 32.768KDZF-UT
4	7.0	1.05	±20ppm	70kΩ	300-8730-1-ND	2.28	1.95	1.47	300-8730-2-ND	3,000	1183.00/M	CM315 32.768KDZY-UT
	9.0		±20ppm	70kΩ	300-8729-1-ND	2.28	1.95	1.47	300-8729-2-ND	3,000	1183.00/M	CM315 32.768KDZC-UT
	12.5		±20ppm	70kΩ	300-8728-1-ND	2.28	1.95	1.47	300-8728-2-ND	3,000	1183.00/M	CM315 32.768KDZF-UT
	7.0	1.05	±20ppm	70kΩ	300-8732-1-ND	1.93	1.65	1.24	300-8732-2-ND	3,000	1001.00/M	CM415 32.768KDZY-UT
	9.0		±20ppm	70kΩ	300-8731-1-ND	1.93	1.65	1.24	300-8731-2-ND	3,000	1001.00/M	CM415 32.768KDZC-UT
	12.5		±20ppm	70kΩ	300-8193-1-ND	1.93	1.65	1.24	300-8193-2-ND	3,000	1001.00/M	CM415 32.768KDZF-UT
	7.0	1.33	±20ppm	70kΩ	300-8734-1-ND	1.58	1.35	1.02	300-8734-2-ND	3,000	819.00/M	CM519 32.768KDZY-UT
	9.0		±20ppm	70kΩ	300-8733-1-ND	1.58	1.35	1.02	300-8733-2-ND	3,000	819.00/M	CM519 32.768KDZC-UT
	12.5		±20ppm	70kΩ	300-8194-1-ND	1.58	1.35	1.02	300-8194-2-ND	3,000	819.00/M	CM519 32.768KDZF-UT
5	6.0	1.35	±20ppm	50kΩ	300-8317-1-ND	.84	.72	.54	300-8317-2-ND	3,000	437.00/M	CM200S32.768KDZB-UT
	12.5		±20ppm	50kΩ	300-8305-1-ND	.84	.72	.54	300-8305-2-ND	3,000	437.00/M	CM200S32.768KDZF-UT
	12.5		±30ppm	50kΩ	300-8735-1-ND	.84	.72	.54	300-8735-2-ND	3,000	437.00/M	CM200S32.768KAZF-UT

CS325 Series Miniature SMT Crystals

RoHS COMPLIANT

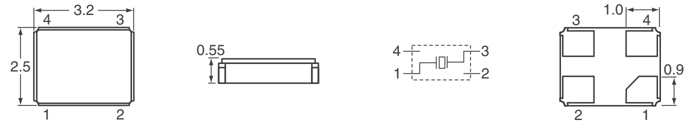

SPECIFICATIONS:

• **Frequency Tolerance:** ±30ppm @ 25°C • **Frequency Stability:** ±50ppm (-10°C ~ 60°C) • **Operating Temperature Range:** -40°C ~ 85°C • **Storage Temperature Range:** -55°C ~ 125°C • **Load Capacitance:** 18pF • **Shunt Capacitance:** 5.0pF Max. • **Drive Level:** 10µW (100µW Max.) • **Insulation Resistance:** 500MΩ Min.

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 3,000	Citizen Part No.
13.000	300-8665-1-ND	1.65	1.35	1.20	300-8665-2-ND	840.00/M	CS325 13.000MABJ-UT
13.5600	300-8666-1-ND	1.65	1.35	1.20	300-8666-2-ND	840.00/M	CS325 13.560MABJ-UT
14.31818	300-8667-1-ND	1.65	1.35	1.20	300-8667-2-ND	840.00/M	CS325 14.31818MABJ-UT
16.0000	300-8668-1-ND	1.65	1.35	1.20	300-8668-2-ND	840.00/M	CS325 16.000MABJ-UT
16.3840	300-8669-1-ND	1.65	1.35	1.20	300-8669-2-ND	840.00/M	CS325 16.384MABJ-UT
18.4320	300-8670-1-ND	1.65	1.35	1.20	300-8670-2-ND	840.00/M	CS325 18.432MABJ-UT
19.2000	300-8671-1-ND	1.65	1.35	1.20	300-8671-2-ND	840.00/M	CS325 19.200MABJ-UT
24.0000	300-8672-1-ND	1.65	1.35	1.20	300-8672-2-ND	840.00/M	CS325 24.000MABJ-UT
24.5760	300-8673-1-ND	1.65	1.35	1.20	300-8673-2-ND	840.00/M	CS325 24.576MABJ-UT
25.0000	300-8674-1-ND	1.65	1.35	1.20	300-8674-2-ND	840.00/M	CS325 25.000MABJ-UT
26.0000	300-8675-1-ND	1.65	1.35	1.20	300-8675-2-ND	840.00/M	CS325 26.000MABJ-UT
27.0000	300-8676-1-ND	1.65	1.35	1.20	300-8676-2-ND	840.00/M	CS325 27.000MABJ-UT
28.6363	300-8677-1-ND	1.65	1.35	1.20	300-8677-2-ND	840.00/M	CS325 28.6363MABJ-UT
30.0000	300-8678-1-ND	1.65	1.35	1.20	300-8678-2-ND	840.00/M	CS325 30.000MABJ-UT
32.0000	300-8679-1-ND	1.65	1.35	1.20	300-8679-2-ND	840.00/M	CS325 32.000MABJ-UT
33.0000	300-8680-1-ND	1.65	1.35	1.20	300-8680-2-ND	840.00/M	CS325 33.000MABJ-UT
33.3333	300-8681-1-ND	1.65	1.35	1.20	300-8681-2-ND	840.00/M	CS325 33.3333MABJ-UT
40.0000	300-8682-1-ND	1.65	1.35	1.20	300-8682-2-ND	840.00/M	CS325 40.000MABJ-UT
44.0000	300-8683-1-ND	1.65	1.35	1.20	300-8683-2-ND	840.00/M	CS325 44.000MABJ-UT
48.0000	300-8684-1-ND	1.65	1.35	1.20	300-8684-2-ND	840.00/M	CS325 48.000MABJ-UT
53.1250	300-8685-1-ND	1.65	1.35	1.20	300-8685-2-ND	840.00/M	CS325 53.125MABJ-UT

CITIZEN™

CS10 Series Ceramic Surface Mount Crystals

Specifications: • **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C • **Operating Temperature:** -40°C ~ 85°C • **Drive Level:** 50μW Maximum • **Frequency Tolerance:** ±30ppm • **Load Capacitance:** 18.0pF • **Equivalent Series Resistance (ESR):** 50Ω Maximum • **Operating Mode:** Fundamental

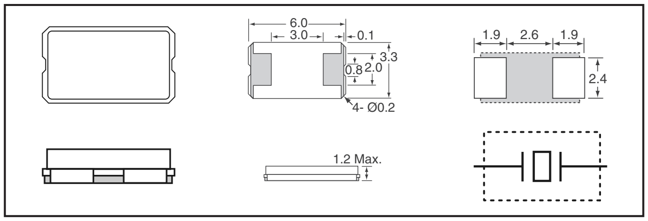

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
12.000000	300-8089-1-ND	1.24	1.02	.90	300-8089-2-ND	630.00/M	CS10 12.000MABJ-UT
12.288000	300-8090-1-ND	1.24	1.02	.90	300-8090-2-ND	630.00/M	CS10 12.288MABJ-UT
12.500000	300-8091-1-ND	1.24	1.02	.90	300-8091-2-ND	630.00/M	CS10 12.500MABJ-UT
13.560000	300-8092-1-ND	1.24	1.02	.90	300-8092-2-ND	630.00/M	CS10 13.560MABJ-UT
14.318180	300-8093-1-ND	1.24	1.02	.90	300-8093-2-ND	630.00/M	CS10 14.31818MABJ-UT
14.745600	300-8094-1-ND	1.24	1.02	.90	300-8094-2-ND	630.00/M	CS10 14.7456MABJ-UT
15.360000	300-8095-1-ND	1.65	1.35	1.20	—	—	CS10 15.360MABJTR
16.000000	300-8096-1-ND	1.24	1.02	.90	300-8096-2-ND	630.00/M	CS10 16.000MABJ-UT
18.432000	300-8098-1-ND	1.24	1.02	.90	300-8098-2-ND	630.00/M	CS10 18.432MABJ-UT
19.660800	300-8100-1-ND	1.24	1.02	.90	300-8100-2-ND	630.00/M	CS10 19.6608MABJ-UT
20.000000	300-8101-1-ND	1.24	1.02	.90	300-8101-2-ND	630.00/M	CS10 20.000MABJ-UT
22.118400	300-8102-1-ND	1.24	1.02	.90	300-8102-2-ND	630.00/M	CS10 22.1184MABJ-UT
24.000000	300-8103-1-ND	1.24	1.02	.90	300-8103-2-ND	630.00/M	CS10 24.000MABJ-UT
24.576000	300-8104-1-ND	1.24	1.02	.90	300-8104-2-ND	630.00/M	CS10 24.576MABJ-UT
25.000000	300-8105-1-ND	1.24	1.02	.90	300-8105-2-ND	630.00/M	CS10 25.000MABJ-UT
27.000000	300-8106-1-ND	1.24	1.02	.90	300-8106-2-ND	630.00/M	CS10 27.000MABJ-UT
28.636360	300-8107-1-ND	1.24	1.02	.90	300-8107-2-ND	630.00/M	CS10 28.63636MABJ-UT
33.000000	300-8112-1-ND	1.24	1.02	.90	300-8112-2-ND	630.00/M	CS10 33.000MABJ-UT
40.000000	300-8114-1-ND	1.24	1.02	.90	300-8114-2-ND	630.00/M	CS10 40.000MABJ-UT
48.000000	300-8115-1-ND	1.24	1.02	.90	300-8115-2-ND	630.00/M	CS10 48.000MABJ-UT

CS20 Series Ceramic Surface Mount Crystals

Specifications:

- **Operating Temperature:** -40°C ~ 85°C
- **Drive Level:** 100μW Maximum
- **Frequency Tolerance:** ±30ppm
- **Load Capacitance:** 18.0pF
- **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C

Equivalent Series Resistance (ESR Ω Maximum)		
Frequency	ESR	Mode
3.579545MHz ≤ fo < 3.6864MHz	200	Fundamental
4.0MHz ≤ fo < 5.0MHz	150	
6.0MHz ≤ fo < 8.0MHz	100	
10.0MHz ≤ fo < 12.288MHz	80	
14.7456MHz < fo ≤ 25.0MHz	50	

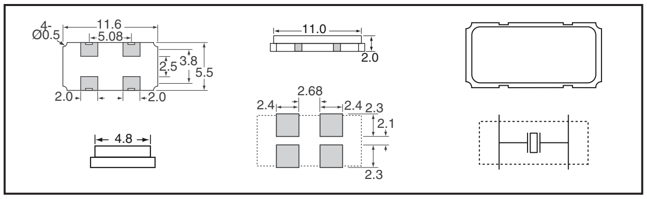

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
3.579545	300-8116-1-ND	1.10	.90	.80	300-8116-2-ND	560.00/M	CS20 3.579545MABJ-UT
3.686400	300-8117-1-ND	1.10	.90	.80	300-8117-2-ND	560.00/M	CS20 3.6864MABJ-UT
4.000000	300-8118-1-ND	1.10	.90	.80	300-8118-2-ND	560.00/M	CS20 4.000MABJ-UT
4.096000	300-8119-1-ND	1.10	.90	.80	300-8119-2-ND	560.00/M	CS20 4.096MABJ-UT
4.915200	300-8120-1-ND	1.10	.90	.80	300-8120-2-ND	560.00/M	CS20 4.9152MABJ-UT
5.000000	300-8121-1-ND	1.10	.90	.80	300-8121-2-ND	560.00/M	CS20 5.000MABJ-UT
6.000000	300-8122-1-ND	1.10	.90	.80	300-8122-2-ND	560.00/M	CS20 6.000MABJ-UT
6.144000	300-8123-1-ND	1.32	1.08	.96	300-8123-2-ND	560.00/M	CS20 6.144MABJTR
7.372800	300-8124-1-ND	1.10	.90	.80	300-8124-2-ND	560.00/M	CS20 7.3728MABJ-UT
8.000000	300-8126-1-ND	1.10	.90	.80	300-8126-2-ND	560.00/M	CS20 8.000MABJ-UT
10.000000	300-8127-1-ND	1.10	.90	.80	300-8127-2-ND	560.00/M	CS20 10.000MABJ-UT
11.059200	300-8128-1-ND	1.10	.90	.80	300-8128-2-ND	560.00/M	CS20 11.0592MABJ-UT
11.289600	300-8129-1-ND	1.10	.90	.80	300-8129-2-ND	560.00/M	CS20 11.2896MABJ-UT
12.000000	300-8130-1-ND	1.10	.90	.80	300-8130-2-ND	560.00/M	CS20 12.000MABJ-UT
12.288000	300-8131-1-ND	1.10	.90	.80	300-8131-2-ND	560.00/M	CS20 12.288MABJ-UT
14.745600	300-8133-1-ND	1.10	.90	.80	300-8133-2-ND	560.00/M	CS20 14.7456MABJ-UT
15.360000	300-8134-1-ND	1.32	1.08	.96	—	—	CS20 15.360MABJTR
16.000000	300-8135-1-ND	1.10	.90	.80	300-8135-2-ND	560.00/M	CS20 16.000MABJ-UT
19.440000	300-8138-1-ND	1.32	1.08	.96	300-8138-2-ND	560.00/M	CS20 19.440MABJTR
20.000000	300-8139-1-ND	1.10	.90	.80	300-8139-2-ND	560.00/M	CS20 20.000MABJ-UT
20.480000	300-8140-1-ND	1.32	1.08	.96	—	—	CS20 20.480MABJTR
22.118400	300-8141-1-ND	1.10	.90	.80	300-8141-2-ND	560.00/M	CS20 22.1184MABJ-UT
24.576000	300-8143-1-ND	1.10	.90	.80	300-8143-2-ND	560.00/M	CS20 24.576MABJ-UT
25.000000	300-8144-1-ND	1.10	.90	.80	300-8144-2-ND	560.00/M	CS20 25.000MABJ-UT

CM250S Series Quartz Crystals

Specifications:
• **Frequency Tolerance:** ±30ppm • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Load Capacitance:** 12.5pF • **Shunt Capacitance:** .8pF ~ 1.7pF • **Drive Level:** 1μW Maximum • **Insulation Resistance:** 500MΩ Minimum • **Aging (First Year):** ±5ppm Maximum

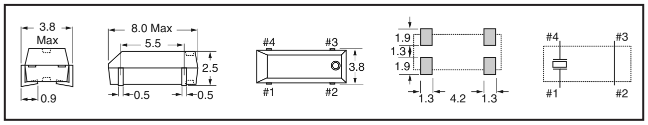

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Citizen Part No.
60.000	300-2018-1-ND	1.65	1.35	1.20	300-2018-2-ND	864.00/M	CM250S60.000KAZFT
60.005	300-2019-1-ND	1.65	1.35	1.20	300-2019-2-ND	864.00/M	CM250S60.005KAZFT
65.536	300-2020-1-ND	1.65	1.35	1.20	300-2020-2-ND	864.00/M	CM250S65.536KAZFT
75.000	300-2021-1-ND	1.65	1.35	1.20	300-2021-2-ND	864.00/M	CM250S75.000KAZFT
76.790	300-2022-1-ND	1.65	1.35	1.20	300-2022-2-ND	864.00/M	CM250S76.790KAZFT
76.800	300-2023-1-ND	1.65	1.35	1.20	—	—	CM250S76.800KAZFT
76.810	300-2024-1-ND	1.65	1.35	1.20	300-2024-2-ND	864.00/M	CM250S76.810KAZFT
77.500	300-2025-1-ND	1.65	1.35	1.20	300-2025-2-ND	864.00/M	CM250S77.500KAZFT
77.503	300-2026-1-ND	1.65	1.35	1.20	300-2026-2-ND	864.00/M	CM250S77.503KAZFT
RoHS Compliant							
32.000	300-8309-1-ND	1.38	1.13	1.00	300-8309-2-ND	720.00/M	CM250S32.000KAZF-UT
40.000	300-8310-1-ND	1.38	1.13	1.00	300-8310-2-ND	720.00/M	CM250S40.000KAZF-UT
60.000	300-8311-1-ND	1.38	1.13	1.00	300-8311-2-ND	720.00/M	CM250S60.000KAZF-UT
65.536	300-8312-1-ND	1.65	1.35	1.20	300-8312-2-ND	864.00/M	CM250S65.536KAZF-UT
75.000	300-8313-1-ND	1.38	1.13	1.00	300-8313-2-ND	720.00/M	CM250S75.000KAZF-UT
76.800	300-8314-1-ND	1.38	1.13	1.00	300-8314-2-ND	720.00/M	CM250S76.800KAZF-UT
96.000	300-8315-1-ND	1.38	1.13	1.00	300-8315-2-ND	720.00/M	CM250S96.000KAZF-UT
100.000	300-8316-1-ND	1.38	1.13	1.00	300-8316-2-ND	720.00/M	CM250S100.000KAZF-UT

CM309S Series Plastic Surface Mount Crystals

Specifications:

- **Operating Temperature:** -40°C ~ 85°C
- **Drive Level:** 100μW Maximum
- **Load Capacitance:** 18.0pF
- **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C

Equivalent Series Resistance (ESR, R1)	
Frequency	ESR (Ω Max.)
3.579545MHz ≤ fo < 3.6864MHz	200
4MHz ≤ fo < 5.5296MHz	150
6MHz ≤ fo < 9.6MHz	100
10MHz ≤ fo < 29.4912MHz	50
32MHz ≤ fo < 33.8688MHz	100
36MHz ≤ fo ≤ 66.6666MHz	80

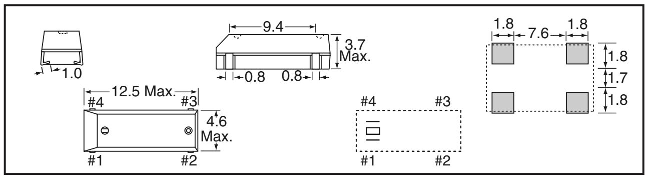

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
5.120000	300-2036-1-ND	1.10	.90	.80	300-2036-2-ND	664.00	CM309S5.120MABJTR
8.000156	300-2038-1-ND	1.10	.90	.80	—	—	CM309S8.000156MABJTR
9.600000	300-2041-1-ND	1.10	.90	.80	300-2041-2-ND	664.00	CM309S9.600MABJTR
10.240000	300-8052-1-ND	1.10	.90	.80	300-8052-2-ND	664.00	CM309S10.240MABJTR
12.288000	300-8056-1-ND	1.10	.90	.80	300-8056-2-ND	664.00	CM309S12.288MABJTR
12.352000	300-2042-1-ND	1.10	.90	.80	300-2042-2-ND	664.00	CM309S12.352MABJTR
13.500000	300-2044-1-ND	1.10	.90	.80	—	—	CM309S13.500MABJTR
15.000000	300-8059-1-ND	1.10	.90	.80	300-8059-2-ND	664.00	CM309S15.000MABJTR
16.000312	300-2045-1-ND	1.10	.90	.80	300-2045-2-ND	664.00	CM309S16.000312MABJTR
16.257000	300-2046-1-ND	1.10	.90	.80	300-2046-2-ND	664.00	CM309S16.257MABJTR
16.384000	300-2047-1-ND	1.10	.90	.80	—	—	CM309S16.384MABJTR
16.934400	300-2048-1-ND	1.10	.90	.80	300-2048-2-ND	664.00	CM309S16.9344MABJTR
17.734475	300-2049-1-ND	1.10	.90	.80	—	—	CM309S17.734475MABJTR
18.000000	300-2050-1-ND	1.10	.90	.80	300-2050-2-ND	664.00	CM309S18.000MABJTR
18.432000	300-8063-1-ND	1.10	.90	.80	300-8063-2-ND	664.00	CM309S18.432MABJTR
18.869000	300-2051-1-ND	1.10	.90	.80	300-2051-2-ND	664.00	CM309S18.869MABJTR
19.660800	300-8065-1-ND	1.10	.90	.80	300-8065-2-ND	664.00	CM309S19.6608MABJTR
25.175000	300-2053-1-ND	1.10	.90	.80	—	—	CM309S25.175MABJTR
28.000000	300-2054-1-ND	1.10	.90	.80	300-2054-2-ND	664.00	CM309S28.000MABJTR
28.322000	300-2055-1-ND	1.10	.90	.80	300-2055-2-ND	664.00	CM309S28.322MABJTR
32.000000	300-8076-1-ND	1.10	.90	.80	—	—	CM309S32.000MABJTR
32.768000	300-8077-1-ND	1.10	.90	.80	300-8077-2-ND	664.00	CM309S32.768MABJTR
33.000000	300-8078-1-ND	1.10	.90	.80	—	—	CM309S33.000MABJTR
33.868800	300-2056-1-ND	1.10	.90	.80	300-2056-2-ND	664.00	CM309S33.8688MABJTR
36.000000	300-8080-1-ND	1.10	.90	.80	—	—	CM309S36.000MABJTR
48.000000	300-8082-1-ND	1.10	.90	.80	300-8082-2-ND	664.00	CM309S48.000MABJTR
53.125000	300-8085-1-ND	1.10	.90	.80	—	—	CM309S53.125MABJTR
60.000000	300-8086-1-ND	1.10	.90	.80	—	—	CM309S60.000MABJTR
66.666600	300-8088-1-ND	1.10	.90	.80	—	—	CM309S66.6666MABJTR
RoHS Compliant							
3.579545	300-8634-1-ND	.94	.77	.68	300-8634-2-ND	564.00	CM309S3.579545MABJ-UT
3.686400	300-8635-1-ND	.94	.77	.68	300-8635-2-ND	564.00	CM309S3.6864MABJ-UT

(Continued)

CITIZEN™ CM309S Series Plastic Surface Mount Crystals *(Cont.)*

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
4.000000	300-8636-1-ND	.94	.77	.68	300-8636-2-ND	564.00	CM309S4.000MABJ-UT
4.096000	300-8637-1-ND	.94	.77	.68	300-8637-2-ND	564.00	CM309S4.096MABJ-UT
4.800000	300-8318-1-ND	.96	.79	.70	300-8318-2-ND	581.00	CM309S4.800MABJ-UT
4.915200	300-8638-1-ND	.94	.77	.68	300-8638-2-ND	564.00	CM309S4.9152MABJ-UT
5.120000	300-8319-1-ND	.96	.79	.70	300-8319-2-ND	581.00	CM309S5.120MABJ-UT
5.529600	300-8320-1-ND	.96	.79	.70	300-8320-2-ND	581.00	CM309S5.5296MABJ-UT
6.000000	300-8639-1-ND	.94	.77	.68	300-8639-2-ND	564.00	CM309S6.000MABJ-UT
6.144000	300-8640-1-ND	.94	.77	.68	300-8640-2-ND	564.00	CM309S6.144MABJ-UT
7.372800	300-8641-1-ND	.94	.77	.68	300-8641-2-ND	564.00	CM309S7.3728MABJ-UT
8.000000	300-8642-1-ND	.94	.77	.68	300-8642-2-ND	564.00	CM309S8.000MABJ-UT
8.000156	300-8321-1-ND	.96	.79	.70	300-8321-2-ND	581.00	CM309S8.000156MABJ-UT
8.192000	300-8322-1-ND	.94	.77	.68	300-8322-2-ND	564.00	CM309S8.192MABJ-UT
9.216000	300-8323-1-ND	.96	.79	.70	300-8323-2-ND	581.00	CM309S9.216MABJ-UT
10.000000	300-8643-1-ND	.94	.77	.68	300-8643-2-ND	564.00	CM309S10.000MABJ-UT
10.240000	300-8644-1-ND	.94	.77	.68	300-8644-2-ND	564.00	CM309S10.240MABJ-UT
11.059200	300-8645-1-ND	.94	.77	.68	300-8645-2-ND	564.00	CM309S11.0592MABJ-UT
12.000000	300-8646-1-ND	.94	.77	.68	300-8646-2-ND	564.00	CM309S12.000MABJ-UT
12.288000	300-8647-1-ND	.94	.77	.68	300-8647-2-ND	564.00	CM309S12.288MABJ-UT
12.352000	300-8324-1-ND	.96	.79	.70	300-8324-2-ND	581.00	CM309S12.352MABJ-UT
12.500000	300-8325-1-ND	.94	.77	.68	300-8325-2-ND	564.00	CM309S12.500MABJ-UT
13.500000	300-8326-1-ND	.94	.77	.68	300-8326-2-ND	564.00	CM309S13.500MABJ-UT
14.318180	300-8648-1-ND	.94	.77	.68	300-8648-2-ND	564.00	CM309S14.31818MABJ-UT
14.745600	300-8649-1-ND	.94	.77	.68	300-8649-2-ND	564.00	CM309S14.7456MABJ-UT
15.000000	300-8650-1-ND	.94	.77	.68	300-8650-2-ND	564.00	CM309S15.000MABJ-UT
16.000000	300-8651-1-ND	.94	.77	.68	300-8651-2-ND	564.00	CM309S16.000MABJ-UT
16.384000	300-8327-1-ND	.94	.77	.68	300-8327-2-ND	564.00	CM309S16.384MABJ-UT
16.934400	300-8328-1-ND	.96	.79	.70	300-8328-2-ND	581.00	CM309S16.9344MABJ-UT
17.734475	300-8329-1-ND	.96	.79	.70	300-8329-2-ND	581.00	CM309S17.734475MABJ-UT
18.000000	300-8330-1-ND	.94	.77	.68	300-8330-2-ND	564.00	CM309S18.000MABJ-UT
18.432000	300-8652-1-ND	.94	.77	.68	300-8652-2-ND	564.00	CM309S18.432MABJ-UT
19.660800	300-8653-1-ND	.94	.77	.68	300-8653-2-ND	564.00	CM309S19.6608MABJ-UT
20.000000	300-8654-1-ND	.94	.77	.68	300-8654-2-ND	564.00	CM309S20.000MABJ-UT
22.118400	300-8655-1-ND	.94	.77	.68	300-8655-2-ND	564.00	CM309S22.1184MABJ-UT
24.000000	300-8656-1-ND	.94	.77	.68	300-8656-2-ND	564.00	CM309S24.000MABJ-UT
24.576000	300-8331-1-ND	.94	.77	.68	300-8331-2-ND	564.00	CM309S24.576MABJ-UT
25.000000	300-8657-1-ND	.94	.77	.68	300-8657-2-ND	564.00	CM309S25.000MABJ-UT
25.175000	300-8332-1-ND	.96	.79	.70	300-8332-2-ND	581.00	CM309S25.175MABJ-UT
27.000000	300-8658-1-ND	.94	.77	.68	300-8658-2-ND	564.00	CM309S27.000MABJ-UT
28.322000	300-8333-1-ND	.96	.79	.70	300-8333-2-ND	581.00	CM309S28.322MABJ-UT
29.491200	300-8659-1-ND	.94	.77	.68	300-8659-2-ND	564.00	CM309S29.4912MABJ-UT
32.000000	300-8660-1-ND	.96	.79	.70	300-8660-2-ND	581.00	CM309S32.000MABJ-UT
40.000000	300-8300-1-ND	.94	.77	.68	300-8300-2-ND	564.00	CM309S40.000MABJ-UT
48.000000	300-8662-1-ND	.94	.77	.68	300-8662-2-ND	564.00	CM309S48.000MABJ-UT

CM309 Series Crystals

Specifications:

• **Frequency Tolerance:** ±30ppm • **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Load Capacitance:** 18.0pF • **Shunt Capacitance:** 7pF • **Drive Level:** 50µW ~ 100µW • **Insulation Resistance:** 500MΩ Minimim • **Aging (First Year):** ±5ppm Maximum

Equivalent Series Resistance (ESR, R1)

Frequency	ESR	Mode
4.096MHz ≤ fo < 5.12MHz	150	Fundamental
7.68MHz ≤ fo < 9.8304MHz	100	
10.24MHz ≤ fo ≤ 28.63636MHz	50	
32MHz < fo < 33.8688MHz	100	3rd OT
40MHz ≤ fo < 66.6666MHz	80	

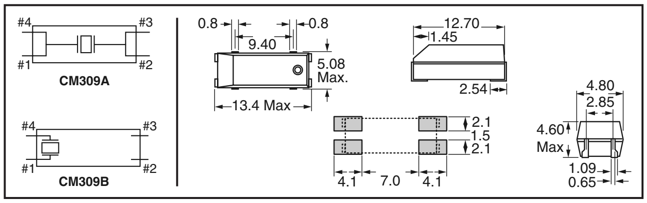

CM309A

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 1,000	Citizen Part No.
5.120000	300-4007-1-ND	1.51	1.30	.98	756.00	CM309A5.120MABJT
7.680000	300-4012-1-ND	1.51	1.30	.98	—	CM309A7.680MABJT
8.000156	300-4014-1-ND	1.51	1.30	.98	756.00	CM309A8.000156MABJT
9.830400	300-4018-1-ND	1.51	1.30	.98	756.00	CM309A9.8304MABJT
12.352000	300-4026-1-ND	1.51	1.30	.98	756.00	CM309A12.352MABJT
12.500000	300-4027-1-ND	1.51	1.30	.98	756.00	CM309A12.500MABJT
15.000000	300-4031-1-ND	1.51	1.30	.98	756.00	CM309A15.000MABJT
15.360000	300-4032-1-ND	1.51	1.30	.98	756.00	CM309A15.360MABJT
16.000312	300-4034-1-ND	1.51	1.30	.98	—	CM309A16.000312MABJT
16.257000	300-4035-1-ND	1.51	1.30	.98	756.00	CM309A16.257MABJT
18.000000	300-4040-1-ND	1.51	1.30	.98	—	CM309A18.000MABJT
25.175000	300-4050-1-ND	1.51	1.30	.98	—	CM309A25.175MABJT
28.000000	300-4052-1-ND	1.51	1.30	.98	756.00	CM309A28.000MABJT
28.322000	300-4053-1-ND	1.51	1.30	.98	—	CM309A28.322MABJT
32.000000	300-4057-1-ND	1.51	1.30	.98	756.00	CM309A32.000MABJT
32.768000	300-4058-1-ND	1.51	1.30	.98	756.00	CM309A32.768MABJT
33.000000	300-4059-1-ND	1.51	1.30	.98	—	CM309A33.000MABJT
33.333300	300-4060-1-ND	1.51	1.30	.98	756.00	CM309A33.3333MABJT
33.868800	300-4061-1-ND	1.51	1.30	.98	756.00	CM309A33.8688MABJT
40.000000	300-4063-1-ND	1.51	1.30	.98	756.00	CM309A40.000MABJT
49.152000	300-4065-1-ND	1.51	1.30	.98	756.00	CM309A49.152MABJT
50.000000	300-4066-1-ND	1.51	1.30	.98	756.00	CM309A50.000MABJT
53.125000	300-4067-1-ND	1.51	1.30	.98	756.00	CM309A53.125MABJT
60.000000	300-4068-1-ND	1.51	1.30	.98	756.00	CM309A60.000MABJT
64.000000	300-4069-1-ND	1.51	1.30	.98	756.00	CM309A64.000MABJT
66.666600	300-4070-1-ND	1.51	1.30	.98	756.00	CM309A66.6666MABJT

CM309B

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 1,000	Citizen Part No.
4.096000	300-4104-1-ND	1.51	1.30	.98	—	CM309B4.096MABJT
5.120000	300-4107-1-ND	1.51	1.30	.98	—	CM309B5.120MABJT
7.680000	300-4112-1-ND	1.51	1.30	.98	—	CM309B7.680MABJT
8.000156	300-4114-1-ND	1.51	1.30	.98	756.00	CM309B8.000156MABJT
9.600000	300-4117-1-ND	1.51	1.30	.98	—	CM309B9.600MABJT
9.830400	300-4118-1-ND	1.51	1.30	.98	756.00	CM309B9.8304MABJT
10.240000	300-4120-1-ND	1.51	1.30	.98	756.00	CM309B10.240MABJT
11.000000	300-4121-1-ND	1.51	1.30	.98	756.00	CM309B11.000MABJT
12.352000	300-4126-1-ND	1.51	1.30	.98	756.00	CM309B12.352MABJT
12.500000	300-4127-1-ND	1.51	1.30	.98	756.00	CM309B12.500MABJT
15.360000	300-4132-1-ND	1.51	1.30	.98	756.00	CM309B15.360MABJT
16.000312	300-4134-1-ND	1.51	1.30	.98	756.00	CM309B16.000312MABJT
16.257000	300-4135-1-ND	1.51	1.30	.98	756.00	CM309B16.257MABJT
17.734475	300-4139-1-ND	1.51	1.30	.98	—	CM309B17.734475MABJT
18.000000	300-4140-1-ND	1.51	1.30	.98	756.00	CM309B18.000MABJT
18.869000	300-4142-1-ND	1.51	1.30	.98	756.00	CM309B18.869MABJT
20.480000	300-4145-1-ND	1.51	1.30	.98	756.00	CM309B20.480MABJT
24.000000	300-4147-1-ND	1.51	1.30	.98	756.00	CM309B24.000MABJT
25.175000	300-4150-1-ND	1.51	1.30	.98	—	CM309B25.175MABJT
28.000000	300-4152-1-ND	1.51	1.30	.98	—	CM309B28.000MABJT
32.000000	300-4157-1-ND	1.51	1.30	.98	756.00	CM309B32.000MABJT
32.768000	300-4158-1-ND	1.51	1.30	.98	—	CM309B32.768MABJT
33.000000	300-4159-1-ND	1.51	1.30	.98	—	CM309B33.000MABJT
33.868800	300-4161-1-ND	1.51	1.30	.98	756.00	CM309B33.8688MABJT
48.000000	300-4164-1-ND	1.51	1.30	.98	756.00	CM309B48.000MABJT
49.152000	300-4165-1-ND	1.51	1.30	.98	756.00	CM309B49.152MABJT
50.000000	300-4166-1-ND	1.51	1.30	.98	756.00	CM309B50.000MABJT
53.125000	300-4167-1-ND	1.51	1.30	.98	756.00	CM309B53.125MABJT
60.000000	300-4168-1-ND	1.51	1.30	.98	756.00	CM309B60.000MABJT
64.000000	300-4169-1-ND	1.51	1.30	.98	—	CM309B64.000MABJT
66.666600	300-4170-1-ND	1.51	1.30	.98	756.00	CM309B66.6666MABJT

* For Tape & Reel Part No., change -1-ND to -2-ND.

HCM49 Series Surface Mount Crystals

Specifications: • **Frequency Tolerance:** ±30ppm • **Frequency Stability**: ±50ppm, -10°C ~ 60°C • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Load Capacitance:** 18.0pF • **Shunt Capacitance:** 7pF Maximum ~ 100µW • **Insulation Resistance:** 500MΩ Minimum • **Aging (First Year):** ±5ppm Maximum

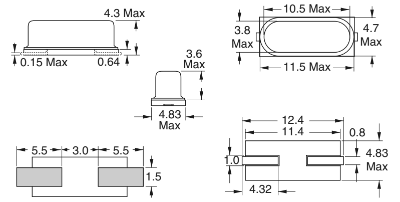

Equivalent Series Resistance (ESR, R1) (Ω Maximum)

Frequency	ESR
3.5MHz ≤ fo < 4.0MHz	200
4.0MHz ≤ fo < 6.0MHz	150
6.0MHz ≤ fo < 10.0MHz	100
10.0MHz ≤ fo < 14.0MHz	80
14.0MHz ≤ fo ≤ 30.0MHz	50
30.0MHz ≤ fo ≤ 36.0MHz	140
36.0MHz ≤ fo ≤ 50.0MHz	100

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
4.433619	300-6107-1-ND	.90	.78	.68	300-6107-2-ND	420.00	HCM49-4.433619MABJT
5.990400	300-6111-1-ND	.90	.78	.68	300-6111-2-ND	420.00	HCM49-5.9904MABJT
9.000000	300-6118-1-ND	.90	.78	.68	—	—	HCM49-9.000MABJT
11.000000	300-6123-1-ND	.90	.78	.68	—	—	HCM49-11.000MABJT
11.520000	300-6125-1-ND	.90	.78	.68	300-6125-2-ND	420.00	HCM49-11.520MABJT
12.000393	300-6128-1-ND	.90	.78	.68	300-6128-2-ND	420.00	HCM49-12.000393MABJT
16.000312	300-6135-1-ND	.90	.78	.68	300-6135-2-ND	420.00	HCM49-16.000312MABJT
16.257000	300-6136-1-ND	.90	.78	.68	—	—	HCM49-16.257MABJT
21.477270	300-6143-1-ND	.90	.78	.68	—	—	HCM49-21.47727MABJT
24.000140	300-6146-1-ND	.90	.78	.68	—	—	HCM49-24.00014MABJT
32.000000	300-6153-1-ND	.90	.78	.68	—	—	HCM49-32.000MABJT
33.868800	300-6156-1-ND	.90	.78	.68	300-6156-2-ND	420.00	HCM49-33.8688MABJT
49.152000	300-6159-1-ND	.90	.78	.68	—	—	HCM49-49.152MABJT
RoHS Compliant							
3.579545	300-8524-1-ND	.75	.65	.57	300-8524-2-ND	350.00	HCM49 3.579545MABJ-UT
3.686400	300-8525-1-ND	.75	.65	.57	300-8525-2-ND	350.00	HCM49 3.6864MABJ-UT
4.000000	300-8526-1-ND	.75	.65	.57	300-8526-2-ND	350.00	HCM49 4.000MABJ-UT
4.032000	300-8527-1-ND	.90	.78	.68	300-8527-2-ND	420.00	HCM49 4.032MABJ-UT
4.096000	300-8528-1-ND	.75	.65	.57	300-8528-2-ND	350.00	HCM49 4.096MABJ-UT
4.194304	300-8529-1-ND	.75	.65	.57	300-8529-2-ND	350.00	HCM49 4.194304MABJ-UT
4.433619	300-8530-1-ND	.90	.78	.68	300-8530-2-ND	420.00	HCM49 4.433619MABJ-UT
4.915200	300-8531-1-ND	.75	.65	.57	300-8531-2-ND	350.00	HCM49 4.9152MABJ-UT
5.000000	300-8532-1-ND	.75	.65	.57	300-8532-2-ND	350.00	HCM49 5.000MABJ-UT
5.068800	300-8533-1-ND	.90	.78	.68	300-8533-2-ND	420.00	HCM49 5.0688MABJ-UT
5.990400	300-8534-1-ND	.90	.78	.68	300-8534-2-ND	420.00	HCM49 5.9904MABJ-UT
6.000000	300-8535-1-ND	.75	.65	.57	300-8535-2-ND	350.00	HCM49 6.000MABJ-UT
6.144000	300-8536-1-ND	.75	.65	.57	300-8536-2-ND	350.00	HCM49 6.144MABJ-UT
6.500000	300-8537-1-ND	.90	.78	.68	300-8537-2-ND	420.00	HCM49 6.500MABJ-UT
7.372800	300-8538-1-ND	.75	.65	.57	300-8538-2-ND	350.00	HCM49 7.3728MABJ-UT

(Continued)

CITIZEN™ HCM49 Series Surface Mount Crystals *(Cont.)*

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
		1	10	50			
7.680000	300-8539-1-ND	.75	.65	.57	300-8539-2-ND	350.00	HCM49 7.680MABJ-UT
8.000000	300-8540-1-ND	.75	.65	.57	300-8540-2-ND	350.00	HCM49 8.000MABJ-UT
9.000000	300-8541-1-ND	.90	.78	.68	300-8541-2-ND	420.00	HCM49 9.000MABJ-UT
9.830400	300-8542-1-ND	.75	.65	.57	300-8542-2-ND	350.00	HCM49 9.8304MABJ-UT
10.000000	300-8543-1-ND	.75	.65	.57	300-8543-2-ND	350.00	HCM49 10.000MABJ-UT
10.240000	300-8544-1-ND	.75	.65	.57	300-8544-2-ND	350.00	HCM49 10.240MABJ-UT
11.000000	300-8545-1-ND	.90	.78	.68	300-8545-2-ND	420.00	HCM49 11.000MABJ-UT
11.059200	300-8546-1-ND	.75	.65	.57	300-8546-2-ND	350.00	HCM49 11.0592MABJ-UT
11.520000	300-8547-1-ND	.90	.78	.68	300-8547-2-ND	420.00	HCM49 11.520MABJ-UT
12.000000	300-8548-1-ND	.75	.65	.57	300-8548-2-ND	350.00	HCM49 12.000MABJ-UT
12.000393	300-8549-1-ND	.90	.78	.68	300-8549-2-ND	420.00	HCM49 12.000393MABJ-UT
12.288000	300-8550-1-ND	.75	.65	.57	300-8550-2-ND	350.00	HCM49 12.288MABJ-UT
13.500000	300-8579-1-ND	.75	.65	.57	300-8579-2-ND	350.00	HCM49 13.500MABJ-UT
14.318180	300-8551-1-ND	.75	.65	.57	300-8551-2-ND	350.00	HCM49 14.31818MABJ-UT
14.745600	300-8552-1-ND	.75	.65	.57	300-8552-2-ND	350.00	HCM49 14.7456MABJ-UT
15.000000	300-8553-1-ND	.75	.65	.57	300-8553-2-ND	350.00	HCM49 15.000MABJ-UT
15.360000	300-8554-1-ND	.75	.65	.57	300-8554-2-ND	350.00	HCM49 15.360MABJ-UT
16.000000	300-8555-1-ND	.75	.65	.57	300-8555-2-ND	350.00	HCM49 16.000MABJ-UT
16.000312	300-8556-1-ND	.90	.78	.68	300-8556-2-ND	420.00	HCM49 16.000312MABJ-UT
16.257000	300-8557-1-ND	.90	.78	.68	300-8557-2-ND	420.00	HCM49 16.257MABJ-UT
16.384000	300-8558-1-ND	.75	.65	.57	300-8558-2-ND	350.00	HCM49 16.384MABJ-UT
17.734475	300-8559-1-ND	.90	.78	.68	300-8559-2-ND	420.00	HCM49 17.734475MABJ-UT
18.000000	300-8560-1-ND	.90	.78	.68	300-8560-2-ND	420.00	HCM49 18.000MABJ-UT
18.432000	300-8561-1-ND	.75	.65	.57	300-8561-2-ND	350.00	HCM49 18.432MABJ-UT
19.660800	300-8562-1-ND	.75	.65	.57	300-8562-2-ND	350.00	HCM49 19.6608MABJ-UT
20.000000	300-8563-1-ND	.75	.65	.57	300-8563-2-ND	350.00	HCM49 20.000MABJ-UT
21.477270	300-8564-1-ND	.90	.78	.68	300-8564-2-ND	420.00	HCM49 21.47727MABJ-UT
22.118400	300-8565-1-ND	.75	.65	.57	300-8565-2-ND	350.00	HCM49 22.1184MABJ-UT
24.000000	300-8566-1-ND	.75	.65	.57	300-8566-2-ND	350.00	HCM49 24.000MABJ-UT
24.000140	300-8567-1-ND	.90	.78	.68	300-8567-2-ND	420.00	HCM49 24.00014MABJ-UT
24.576000	300-8568-1-ND	.75	.65	.57	300-8568-2-ND	350.00	HCM49 24.576MABJ-UT
25.000000	300-8569-1-ND	.75	.65	.57	300-8569-2-ND	350.00	HCM49 25.000MABJ-UT
25.175000	300-8570-1-ND	.90	.78	.68	300-8570-2-ND	420.00	HCM49 25.175MABJ-UT
27.000000	300-8571-1-ND	.75	.65	.57	300-8571-2-ND	350.00	HCM49 27.000MABJ-UT
28.636360	300-8572-1-ND	.90	.78	.68	300-8572-2-ND	420.00	HCM49 28.63636MABJ-UT
32.000000	300-8573-1-ND	.75	.65	.57	300-8573-2-ND	350.00	HCM49 32.000MABJ-UT
33.868800	300-8574-1-ND	.90	.78	.68	300-8574-2-ND	420.00	HCM49 33.8688MABJ-UT
40.000000	300-8575-1-ND	.75	.65	.57	300-8575-2-ND	350.00	HCM49 40.000MABJ-UT
48.000000	300-8576-1-ND	.75	.65	.57	300-8576-2-ND	350.00	HCM49 48.000MABJ-UT
49.152000	300-8577-1-ND	.75	.65	.57	300-8577-2-ND	350.00	HCM49 49.152MABJ-UT
50.000000	300-8578-1-ND	.75	.65	.57	300-8578-2-ND	350.00	HCM49 50.000MABJ-UT

CMR250T Series Crystals

Specifications:
• **Frequency Tolerance:** ±30ppm • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Load Capacitance:** 12.5pF • **Shunt Capacitance:** .8pF ~ .7pF • **Drive Level:** 1µW Max. • **Insulation Resistance:** 500MΩ Min. • **Aging (First Year):** ±5ppm Max.

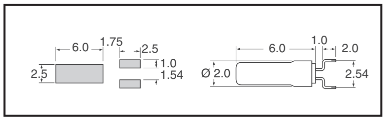

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
		1	10	50			
40.000	300-2058-1-ND	1.75	1.50	1.13	—	—	CMR250TB40.000KAZFTR
65.535	300-2060-1-ND	1.75	1.50	1.13	300-2060-2-ND	700.00/M	CMR250TB65.535KAZFTR
75.000	300-2061-1-ND	1.75	1.50	1.13	300-2061-2-ND	700.00/M	CMR250TB75.000KAZFTR
96.000	300-2063-1-ND	1.75	1.50	1.13	—	—	CMR250TB96.000KAZFTR
RoHS Compliant							
60.000	300-8335-1-ND	1.75	1.50	1.13	300-8335-2-ND	700.00/M	CMR250T60.000KAZF-UT
65.535	300-8336-1-ND	1.75	1.50	1.13	—	—	CMR250T65.535KAZF-UT
75.000	300-8337-1-ND	1.75	1.50	1.13	300-8337-2-ND	700.00/M	CMR250T75.000KAZF-UT
76.800	300-8338-1-ND	1.75	1.50	1.13	—	—	CMR250T76.8KAZF-UT
100.000	300-8339-1-ND	1.75	1.50	1.13	300-8339-2-ND	700.00/M	CMR250T100.000KAZF-UT

CMR309T Series Crystals

Specifications:
- **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C
- **Aging (first year):** ±5ppm max. @ 25°C
- **Frequency Tolerance:** ±30ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Load Capacitance:** 18.0pF
- **Shunt Capacitance:** 5pF
- **Drive Level:** 100µW
- **Insulation Resistance:** 500MΩ Min.
- **Mode of Oscillation:** ***Fundamental:*** 4.096MHz to 27.000MHz; ***Third Overtone:*** 32.000MHz to 66.6660MHz

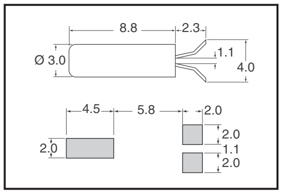

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
		1	10	50			
5.00000	300-2072-1-ND	.98	.84	.63	300-2072-2-ND	490.00	CMR309T5.000MABJTR
9.83040	300-2076-1-ND	.98	.84	.63	300-2076-2-ND	490.00	CMR309T9.8304MABJTR
10.00000	300-2077-1-ND	.98	.84	.63	300-2077-2-ND	490.00	CMR309T10.000MABJTR
14.31818	300-2081-1-ND	.98	.84	.63	300-2081-2-ND	490.00	CMR309T14.31818MABJTR
16.38400	300-2083-1-ND	.98	.84	.63	300-2083-2-ND	490.00	CMR309T16.384MABJTR
18.43200	300-2084-1-ND	.98	.84	.63	300-2084-2-ND	490.00	CMR309T18.432MABJTR
24.00000	300-2086-1-ND	.98	.84	.63	—	—	CMR309T24.000MABJTR
24.57600	300-2087-1-ND	.98	.84	.63	—	—	CMR309T24.576MABJTR
32.00000	300-2089-1-ND	.98	.84	.63	300-2089-2-ND	490.00	CMR309T32.000MABJTR
40.00000	300-2090-1-ND	.98	.84	.63	300-2090-2-ND	490.00	CMR309T40.000MABJTR
48.00000	300-2091-1-ND	.98	.84	.63	300-2091-2-ND	490.00	CMR309T48.000MABJTR
49.15200	300-2092-1-ND	.98	.84	.63	300-2092-2-ND	490.00	CMR309T49.152MABJTR
50.00000	300-2093-1-ND	.98	.84	.63	300-2093-2-ND	490.00	CMR309T50.000MABJTR
60.00000	300-2094-1-ND	.98	.84	.63	300-2094-2-ND	490.00	CMR309T60.000MABJTR
66.66600	300-2095-1-ND	.98	.84	.63	300-2095-2-ND	490.00	CMR309T66.666MABJTR
RoHS Compliant							
4.09600	300-8345-1-ND	.84	.72	.54	300-8345-2-ND	420.00	CMR309T4.096MABJ-UT
4.91520	300-8346-1-ND	.84	.72	.54	300-8346-2-ND	420.00	CMR309T4.9152MABJ-UT
5.00000	300-8347-1-ND	.84	.72	.54	300-8347-2-ND	420.00	CMR309T5.000MABJ-UT
6.00000	300-8348-1-ND	.84	.72	.54	300-8348-2-ND	420.00	CMR309T6.000MABJ-UT
7.37280	300-8349-1-ND	.84	.72	.54	300-8349-2-ND	420.00	CMR309T7.3728MABJ-UT
8.00000	300-8350-1-ND	.84	.72	.54	300-8350-2-ND	420.00	CMR309T8.000MABJ-UT
10.00000	300-8351-1-ND	.84	.72	.54	300-8351-2-ND	420.00	CMR309T10.000MABJ-UT
11.05920	300-8352-1-ND	.84	.72	.54	300-8352-2-ND	420.00	CMR309T11.0592MABJ-UT
12.00000	300-8353-1-ND	.84	.72	.54	300-8353-2-ND	420.00	CMR309T12.000MABJ-UT
12.28800	300-8354-1-ND	.84	.72	.54	300-8354-2-ND	420.00	CMR309T12.288MABJ-UT
14.31818	300-8355-1-ND	.84	.72	.54	300-8355-2-ND	420.00	CMR309T14.31818MABJ-UT
16.00000	300-8356-1-ND	.84	.72	.54	300-8356-2-ND	420.00	CMR309T16.000MABJ-UT
16.38400	300-8357-1-ND	.84	.72	.54	300-8357-2-ND	420.00	CMR309T16.384MABJ-UT
18.43200	300-8358-1-ND	.84	.72	.54	300-8358-2-ND	420.00	CMR309T18.432MABJ-UT
22.11840	300-8359-1-ND	.98	.84	.63	300-8359-2-ND	490.00	CMR309T22.1184MABJ-UT
24.00000	300-8360-1-ND	.98	.84	.63	300-8360-2-ND	490.00	CMR309T24.000MABJ-UT
24.57600	300-8361-1-ND	.98	.84	.63	300-8361-2-ND	490.00	CMR309T24.576MABJ-UT
27.00000	300-8362-1-ND	.98	.84	.63	300-8362-2-ND	490.00	CMR309T27.000MABJ-UT
40.00000	300-8363-1-ND	.98	.84	.63	300-8363-2-ND	490.00	CMR309T40.000MABJ-UT
48.00000	300-8364-1-ND	.98	.84	.63	300-8364-2-ND	490.00	CMR309T48.000MABJ-UT
50.00000	300-8365-1-ND	.98	.84	.63	300-8365-2-ND	490.00	CMR309T50.000MABJ-UT

CMR310T Series Crystals

Specifications:
- **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C
- **Aging (first year):** ±5ppm max. @ 25°C
- **Frequency Tolerance:** ±30ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Load Capacitance:** 18.0pF
- **Shunt Capacitance:** 5pF
- **Drive Level:** 100µW
- **Insulation Resistance:** 500MΩ Min.

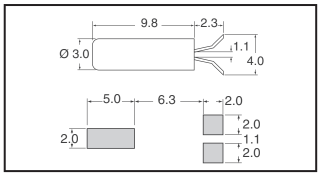

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
		1	10	50			
3.579545	300-8342-1-ND	.84	.72	.54	300-8342-2-ND	420.00	CMR310T3.579545MABJ-UT
3.686400	300-8343-1-ND	.84	.72	.54	300-8343-2-ND	420.00	CMR310T3.6864MABJ-UT
4.000000	300-8344-1-ND	.84	.72	.54	300-8344-2-ND	420.00	CMR310T4.000MABJ-UT

Cylinder Type Crystals

Specifications:
• **Frequency Tolerance:** CFS Series: ±20ppm; CFV and CSA Series: ±30ppm • **Frequency Temperature Characteristics:** CSA Series: ±50ppm (-10°C ~ 60°C) • **Operating Temperature Range:** -20°C ~ 70°C • **Storage Temperature Range:** -40°C ~ 85°C • **Drive Level:** CFS and CFV Series: 1µW Max.; CSA Series: 100µW • **Insulation Resistance:** 500MΩ Min. • **Aging (first year):** CFS Series: ±3ppm Max.; CFV and CSA Series: ±5ppm Max.

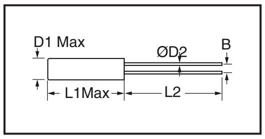

Equivalent Series Resistance (ESR, R1)

Frequency	ESR	Mode
3.5MHz ≤ fo < 4MHz	200	Fundamental
4MHz ≤ fo < 6MHz	150	
6MHz ≤ fo < 10MHz	100	
10MHz ≤ fo ≤ 30MHz	50	
30MHz < fo < 36MHz	100	3rd OT
36MHz ≤ fo < 66.6666MHz	80	

Series	Dimensions (mm)				
	L1 max.	L2	D1 max.	D2	B
CFS145	5.1	4.3	1.5	0.2	0.45
CFS206	6.2	10	2.1	0.26	0.7
CFS308	8.2	10	3.1	0.35	1.1
CFV206	6.2	10	2.1	0.26	0.7
CSA310	10.5	10	3.2	0.32	1.1
CSA309	9	10	3.2	0.32	1.1

Series	Frequency	Load Cap. (pF)	Shunt Cap. (pF)	Digi-Key Part No.	Price Each			Citizen Part No.
					1	10	50	
CFV206	60.005000kHz	12.5	0.8 ~ 1.7	300-3019-ND	1.00	.90	.65	CFV206 60.005KAZF
	75.000000kHz	12.5	0.8 ~ 1.7	300-3021-ND	1.00	.90	.65	CFV206 75.000KAZF
	76.790000kHz	12.5	0.8 ~ 1.7	300-3022-ND	1.00	.90	.65	CFV206 76.790KAZF
	76.810000kHz	12.5	0.8 ~ 1.7	300-3024-ND	1.00	.90	.65	CFV206 76.810KAZF
	77.503000kHz	12.5	0.8 ~ 1.7	300-3026-ND	1.00	.90	.65	CFV206 77.503KAZF
CSA309	8.000156MHz	18.0	5.0	300-5011-ND	.81	.69	.58	CSA309-8.000156MABJ
	10.240000MHz	18.0	5.0	300-5017-ND	.81	.69	.58	CSA309-10.240MABJ
	11.000000MHz	18.0	5.0	300-5018-ND	.81	.69	.58	CSA309-11.000MABJ
	12.288000MHz	18.0	5.0	300-5022-ND	.81	.69	.58	CSA309-12.288MABJ
	12.352000MHz	18.0	5.0	300-5023-ND	.81	.69	.58	CSA309-12.352MABJ
	12.500000MHz	18.0	5.0	300-5024-ND	.81	.69	.58	CSA309-12.500MABJ
	14.318180MHz	18.0	5.0	300-5026-ND	.81	.69	.58	CSA309-14.31818MABJ
	15.000000MHz	18.0	5.0	300-5028-ND	.81	.69	.58	CSA309-15.000MABJ
	15.360000MHz	18.0	5.0	300-5029-ND	.81	.69	.58	CSA309-15.360MABJ
	16.000312MHz	18.0	5.0	300-5031-ND	.81	.69	.58	CSA309-16.000312MABJ

(Continued)

CITIZEN™ Cylinder Type Crystals *(Cont.)*

Series	Frequency	Load Cap.	Shunt Cap. (pF)	Digi-Key Part No.	Price Each			Citizen Part No.
					1	10	50	
CSA309	16.257000MHz	18.0pF	5.0	300-5032-ND	.81	.69	.58	CSA309-16.257MABJ
	17.734475MHz	18.0pF	5.0	300-5036-ND	.81	.69	.58	CSA309-17.734475MABJ
	18.869000MHz	18.0pF	5.0	300-5039-ND	.81	.69	.58	CSA309-18.869MABJ
	20.480000MHz	18.0pF	5.0	300-5042-ND	.81	.69	.58	CSA309-20.480MABJ
	25.175000MHz	18.0pF	5.0	300-5047-ND	.81	.69	.58	CSA309-25.175MABJ
	28.000000MHz	18.0pF	5.0	300-5049-ND	.81	.69	.58	CSA309-28.000MABJ
	32.000000MHz	18.0pF	5.0	300-5054-ND	.81	.69	.58	CSA309-32.000MABJ
	33.000000MHz	18.0pF	5.0	300-5056-ND	.81	.69	.58	CSA309-33.000MABJ
	33.333300MHz	18.0pF	5.0	300-5057-ND	.81	.69	.58	CSA309-33.3333MABJ
	33.868800MHz	18.0pF	5.0	300-5058-ND	.81	.69	.58	CSA309-33.8688MABJ
	40.000000MHz	18.0pF	5.0	300-5060-ND	.81	.69	.58	CSA309-40.000MABJ
	48.000000MHz	18.0pF	5.0	300-5061-ND	.81	.69	.58	CSA309-48.000MABJ
	53.125000MHz	18.0pF	5.0	300-5064-ND	.81	.69	.58	CSA309-53.125MABJ
	60.000000MHz	18.0pF	5.0	300-5065-ND	.81	.69	.58	CSA309-60.000MABJ
	66.666600MHz	18.0pF	5.0	300-5067-ND	.81	.69	.58	CSA309-66.6666MABJ
RoHS Compliant								
CFS145	32.768000kHz	12.5pF	1	300-8304-ND	.77	.66	.55	CFS145 32.768KDZF-UB
CFS206	32.768000kHz	6.0pF	1.35	300-8301-ND	.28	.24	.16	CFS206 32.768KDZB-UB
	32.768000kHz	12.5pF	1.35	300-8303-ND	.28	.24	.16	CFS206 32.768KDZF-UB
CFV206	32.000000kHz	12.5pF	0.8 - 1.7	300-8402-ND	.75	.68	.49	CFV206 32.000KAZF-UB
	40.000000kHz	12.5pF	0.8 - 1.7	300-8403-ND	.75	.68	.49	CFV206 40.000KAZF-UB
	60.000000kHz	12.5pF	0.8 - 1.7	300-8404-ND	.75	.68	.49	CFV206 60.000KAZF-UB
	65.536000kHz	12.5pF	0.8 - 1.7	300-8405-ND	1.00	.90	.65	CFV206 65.536KAZF-UB
	75.000000kHz	12.5pF	0.8 - 1.7	300-8406-ND	.75	.68	.49	CFV206 75.000KAZF-UB
	76.800000kHz	12.5pF	0.8 - 1.7	300-8407-ND	.75	.68	.49	CFV206 76.800KAZF-UB
	77.503000kHz	12.5pF	0.8 - 1.7	300-8408-ND	1.00	.90	.65	CFV206 77.503KAZF-UB
	96.000000kHz	12.5pF	0.8 - 1.7	300-8409-ND	.91	.82	.59	CFV206 96.000KAZF-UB
	100.000000kHz	12.5pF	0.8 - 1.7	300-8410-ND	.75	.68	.49	CFV206 100.000KAZF-UB
CSA309	4.096000MHz	18.0pF	5.0	300-8412-ND	.63	.54	.45	CSA309 4.096MABJ-UB
	4.800000MHz	18.0pF	5.0	300-8413-ND	.81	.69	.58	CSA309 4.800MABJ-UB
	4.915200MHz	18.0pF	5.0	300-8414-ND	.63	.54	.45	CSA309 4.9152MABJ-UB
	5.120000MHz	18.0pF	5.0	300-8415-ND	.81	.69	.58	CSA309 5.120MABJ-UB
	5.529600MHz	18.0pF	5.0	300-8416-ND	.81	.69	.58	CSA309 5.5296MABJ-UB
	6.000000MHz	18.0pF	5.0	300-8417-ND	.63	.54	.45	CSA309 6.000MABJ-UB
	6.144000MHz	18.0pF	5.0	300-8418-ND	.63	.54	.45	CSA309 6.144MABJ-UB
	7.372800MHz	18.0pF	5.0	300-8419-ND	.63	.54	.45	CSA309 7.3728MABJ-UB
	7.680000MHz	18.0pF	5.0	300-8420-ND	.63	.54	.45	CSA309 7.680MABJ-UB
	8.000000MHz	18.0pF	5.0	300-8421-ND	.63	.54	.45	CSA309 8.000MABJ-UB
	8.192000MHz	18.0pF	5.0	300-8422-ND	.63	.54	.45	CSA309 8.192MABJ-UB
	9.216000MHz	18.0pF	5.0	300-8423-ND	.81	.69	.58	CSA309 9.216MABJ-UB
	9.600000MHz	18.0pF	5.0	300-8424-ND	.81	.69	.58	CSA309 9.600MABJ-UB
	9.830400MHz	18.0pF	5.0	300-8425-ND	.63	.54	.45	CSA309 9.8304MABJ-UB
	10.000000MHz	18.0pF	5.0	300-8426-ND	.63	.54	.45	CSA309 10.000MABJ-UB
	10.240000MHz	18.0pF	5.0	300-8427-ND	.81	.69	.58	CSA309 10.240MABJ-UB
	11.059200MHz	18.0pF	5.0	300-8428-ND	.63	.54	.45	CSA309 11.0592MABJ-UB
	11.289600MHz	18.0pF	5.0	300-8429-ND	.63	.54	.45	CSA309 11.2896MABJ-UB
	12.000000MHz	18.0pF	5.0	300-8430-ND	.63	.54	.45	CSA309 12.000MABJ-UB
	12.288000MHz	18.0pF	5.0	300-8431-ND	.63	.54	.45	CSA309 12.288MABJ-UB
	12.500000MHz	18.0pF	5.0	300-8432-ND	.63	.54	.45	CSA309 12.500MABJ-UB
	13.500000MHz	18.0pF	5.0	300-8433-ND	.63	.54	.45	CSA309 13.500MABJ-UB
	14.318180MHz	18.0pF	5.0	300-8434-ND	.63	.54	.45	CSA309 14.31818MABJ-UB
	14.745600MHz	18.0pF	5.0	300-8435-ND	.63	.54	.45	CSA309 14.7456MABJ-UB
	15.000000MHz	18.0pF	5.0	300-8436-ND	.63	.54	.45	CSA309 15.000MABJ-UB
	16.000000MHz	18.0pF	5.0	300-8437-ND	.63	.54	.45	CSA309 16.000MABJ-UB
	16.000312MHz	18.0pF	5.0	300-8438-ND	.63	.54	.45	CSA309 16.000312MABJ-UB
	16.384000MHz	18.0pF	5.0	300-8439-ND	.63	.54	.45	CSA309 16.384MABJ-UB
	16.667000MHz	18.0pF	5.0	300-8440-ND	.81	.69	.58	CSA309 16.667MABJ-UB
	16.934400MHz	18.0pF	5.0	300-8441-ND	.81	.69	.58	CSA309 16.9344MABJ-UB
	17.734475MHz	18.0pF	5.0	300-8442-ND	.81	.69	.58	CSA309 17.734475MABJ-UB
	18.000000MHz	18.0pF	5.0	300-8443-ND	.63	.54	.45	CSA309 18.000MABJ-UB
	18.432000MHz	18.0pF	5.0	300-8444-ND	.63	.54	.45	CSA309 18.432MABJ-UB
	19.660800MHz	18.0pF	5.0	300-8445-ND	.63	.54	.45	CSA309 19.6608MABJ-UB
	20.000000MHz	18.0pF	5.0	300-8446-ND	.63	.54	.45	CSA309 20.000MABJ-UB
	20.480000MHz	18.0pF	5.0	300-8447-ND	.63	.54	.45	CSA309 20.480MABJ-UB
	22.118000MHz	18.0pF	5.0	300-8448-ND	.77	.66	.55	CSA309 22.1184MABJ-UB
	24.000000MHz	18.0pF	5.0	300-8449-ND	.77	.66	.55	CSA309 24.000MABJ-UB
	24.576000MHz	18.0pF	5.0	300-8450-ND	.77	.66	.55	CSA309 24.576MABJ-UB
	25.000000MHz	18.0pF	5.0	300-8451-ND	.77	.66	.55	CSA309 25.000MABJ-UB
	27.000000MHz	18.0pF	5.0	300-8452-ND	.77	.66	.55	CSA309 27.000MABJ-UB
	28.000000MHz	18.0pF	5.0	300-8453-ND	.81	.69	.58	CSA309 28.000MABJ-UB
	28.322000MHz	18.0pF	5.0	300-8454-ND	.81	.69	.58	CSA309 28.322MABJ-UB
	28.636360MHz	18.0pF	5.0	300-8455-ND	.77	.66	.55	CSA309 28.63636MABJ-UB
	29.491200MHz	18.0pF	5.0	300-8456-ND	.77	.66	.55	CSA309 29.4912MABJ-UB
	30.000000MHz	18.0pF	5.0	300-8457-ND	.77	.66	.55	CSA309 30.000MABJ-UB
	32.000000MHz	18.0pF	5.0	300-8458-ND	.77	.66	.55	CSA309 32.000MABJ-UB
	32.768000MHz	18.0pF	5.0	300-8459-ND	.77	.66	.55	CSA309 32.768MABJ-UB
	33.000000MHz	18.0pF	5.0	300-8460-ND	.77	.66	.55	CSA309 33.000MABJ-UB
	33.333300MHz	18.0pF	5.0	300-8461-ND	.77	.66	.55	CSA309 33.3333MABJ-UB
	33.868800MHz	18.0pF	5.0	300-8462-ND	.81	.69	.58	CSA309 33.8688MABJ-UB
	40.000000MHz	18.0pF	5.0	300-8463-ND	.77	.66	.55	CSA309 40.000MABJ-UB
	48.000000MHz	18.0pF	5.0	300-8464-ND	.77	.66	.55	CSA309 48.000MABJ-UB
	49.152000MHz	18.0pF	5.0	300-8465-ND	.77	.66	.55	CSA309 49.152MABJ-UB
	64.000000MHz	18.0pF	5.0	300-8466-ND	.77	.66	.55	CSA309 64.000MABJ-UB
CSA310	3.579545MHz	18.0pF	5.0	300-8306-ND	.63	.54	.45	CSA310 3.579545MABJ-UB
	3.686400MHz	18.0pF	5.0	300-8307-ND	.63	.54	.45	CSA310 3.6864MABJ-UB
	4.000000MHz	18.0pF	5.0	300-8308-ND	.63	.54	.45	CSA310 4.000MABJ-UB

HC49US Series Through-Hole Crystals

Specifications:
• **Frequency Tolerance:** ±30ppm • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C • **Load Capacitance:** 18.0pF • **Shunt Capacitance:** 7pF Maximum • **Drive Level:** 100μW Maximum • **Insulation Resistance:** 500MΩ Minimum • **Aging (First Year):** ±5ppm Maximum

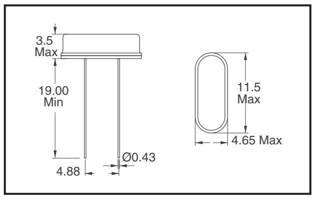

Equivalent Series Resistance (ESR, R1) (Ω Maximum)

Frequency	ESR
3.579545MHz ≤ fo < 3.6864MHz	200
4.0MHz ≤ fo < 5.9904MHz	150
6.0MHz ≤ fo < 9.8304MHz	100
10.0MHz ≤ fo < 13.5MHz	80
14.31818MHz ≤ fo ≤ 28.63636MHz	50
32.0MHz ≤ fo ≤ 33.8688MHz	140
40.0MHz ≤ fo ≤ 50.0MHz	100

Frequency (MHz)	Digi-Key Part No.	Price Each			Citizen Part No.
		1	10	50	
4.032000	300-6004-ND	.70	.60	.55	HC49US4.032MABJ
5.990400	300-6011-ND	.70	.60	.55	HC49US5.9904MABJ
6.500000	300-6014-ND	.70	.60	.55	HC49US6.500MABJ
7.680000	300-6016-ND	.70	.60	.55	HC49US7.680MABJ
9.216000	300-6019-ND	.70	.60	.55	HC49US9.216MABJ
10.240000	300-6022-ND	.70	.60	.55	HC49US10.240MABJ
12.000393	300-6028-ND	.70	.60	.55	HC49US12.000393MABJ
16.000312	300-6035-ND	.70	.60	.55	HC49US16.000312MABJ
16.257000	300-6036-ND	.70	.60	.55	HC49US16.257MABJ
21.477270	300-6043-ND	.70	.60	.55	HC49US21.47727MABJ
24.000140	300-6046-ND	.70	.60	.55	HC49US24.00014MABJ
25.175000	300-6049-ND	.70	.60	.55	HC49US25.175MABJ
33.868800	300-6056-ND	.70	.60	.55	HC49US33.8688MABJ
RoHS Compliant					
3.579545	300-8467-ND	.63	.54	.50	HC49US3.579545MABJ-UB
3.686400	300-8468-ND	.63	.54	.50	HC49US3.6864MABJ-UB
4.000000	300-8469-ND	.63	.54	.50	HC49US4.000MABJ-UB
4.032000	300-8470-ND	.70	.60	.55	HC49US4.032MABJ-UB
4.096000	300-8471-ND	.63	.54	.50	HC49US4.096MABJ-UB
4.194304	300-8472-ND	.63	.54	.50	HC49US4.194304MABJ-UB
4.433619	300-8473-ND	.70	.60	.55	HC49US4.433619MABJ-UB
4.915200	300-8474-ND	.63	.54	.50	HC49US4.9152MABJ-UB
5.000000	300-8475-ND	.63	.54	.50	HC49US5.000MABJ-UB
5.068800	300-8476-ND	.70	.60	.55	HC49US5.0688MABJ-UB
5.990400	300-8477-ND	.70	.60	.55	HC49US5.9904MABJ-UB
6.000000	300-8478-ND	.63	.54	.50	HC49US6.000MABJ-UB
6.144000	300-8479-ND	.63	.54	.50	HC49US6.144MABJ-UB
6.500000	300-8480-ND	.70	.60	.55	HC49US6.500MABJ-UB
7.372800	300-8481-ND	.63	.54	.50	HC49US7.3728MABJ-UB
7.680000	300-8482-ND	.63	.54	.50	HC49US7.680MABJ-UB
8.000000	300-8483-ND	.63	.54	.50	HC49US8.000MABJ-UB
9.000000	300-8484-ND	.70	.60	.55	HC49US9.000MABJ-UB
9.216000	300-8485-ND	.70	.60	.55	HC49US9.216MABJ-UB
9.830400	300-8486-ND	.63	.54	.50	HC49US9.8304MABJ-UB
10.000000	300-8487-ND	.63	.54	.50	HC49US10.000MABJ-UB
10.240000	300-8488-ND	.63	.54	.50	HC49US10.240MABJ-UB
11.000000	300-8489-ND	.70	.60	.55	HC49US11.00MABJ-UB
11.059200	300-8490-ND	.63	.54	.50	HC49US11.0592MABJ-UB
11.520000	300-8491-ND	.70	.60	.55	HC49US11.520MABJ-UB
12.000000	300-8492-ND	.63	.54	.50	HC49US12.000MABJ-UB
12.000393	300-8493-ND	.70	.60	.55	HC49US12.000393MABJ-UB
12.288000	300-8494-ND	.63	.54	.50	HC49US12.288MABJ-UB
13.500000	300-8523-ND	.63	.54	.50	HC49US13.500MABJ-UB
14.318180	300-8495-ND	.63	.54	.50	HC49US14.31818MABJ-UB
14.745600	300-8496-ND	.63	.54	.50	HC49US14.7456MABJ-UB
15.000000	300-8497-ND	.63	.54	.50	HC49US15.000MABJ-UB
15.360000	300-8498-ND	.63	.54	.50	HC49US15.360MABJ-UB
16.000000	300-8499-ND	.63	.54	.50	HC49US16.000MABJ-UB
16.000312	300-8500-ND	.70	.60	.55	HC49US16.000312MABJ-UB
16.257000	300-8501-ND	.70	.60	.55	HC49US16.257MABJ-UB
16.384000	300-8502-ND	.63	.54	.50	HC49US16.384MABJ-UB
17.734475	300-8503-ND	.70	.60	.55	HC49US17.734475MABJ-UB
18.000000	300-8504-ND	.70	.60	.55	HC49US18.000MABJ-UB
18.432000	300-8505-ND	.63	.54	.50	HC49US18.432MABJ-UB
19.660800	300-8506-ND	.63	.54	.50	HC49US19.6608MABJ-UB
20.000000	300-8507-ND	.63	.54	.50	HC49US20.000MABJ-UB
21.477270	300-8508-ND	.70	.60	.55	HC49US21.47727MABJ-UB
22.118400	300-8509-ND	.63	.54	.50	HC49US22.1184MABJ-UB
24.000000	300-8510-ND	.63	.54	.50	HC49US24.000MABJ-UB
24.000140	300-8511-ND	.70	.60	.55	HC49US24.00014MABJ-UB
24.576000	300-8512-ND	.63	.54	.50	HC49US24.576MABJ-UB
25.000000	300-8513-ND	.63	.54	.50	HC49US25.000MABJ-UB
25.175000	300-8514-ND	.70	.60	.55	HC49US25.175MABJ-UB
27.000000	300-8515-ND	.63	.54	.50	HC49US27.000MABJ-UB
28.224000	300-8516-ND	.63	.54	.50	HC49US28.224MABJ-UB
28.636360	300-8517-ND	.70	.60	.55	HC49US28.63636MABJ-UB
32.000000	300-8518-ND	.63	.54	.50	HC49US32.000MABJ-UB
33.868800	300-8519-ND	.70	.60	.55	HC49US33.8688MABJ-UB
40.000000	300-8520-ND	.63	.54	.50	HC49US40.000MABJ-UB
48.000000	300-8521-ND	.63	.54	.50	HC49US48.000MABJ-UB
50.000000	300-8522-ND	.63	.54	.50	HC49US50.000MABJ-UB

ECS INC. INTERNATIONAL

Programmable Oscillators

The ability to create a custom oscillator to certain specifications provides engineers with a great deal of flexibility. They allow for last minute changes in circuitry or design. ECS Blanks are “Twice Programmable”. This is a cost saving feature which allows you to reprogram the same part to different specifications. ECS Programmable Oscillators are available in four different package styles: 3.2 x 5.0 SMD, 5.0 x 7.5 SMD, Half Size Dip and Full Size Dip Package. Frequency ranges are available from 1MHz ~ 125MHz in 3.3V and 1MHz ~ 150MHz in 5V* and in ±50ppm** and ±100ppm Frequency Stability Options.

*3.2 x 5.0 SMD package: Frequency range 1MHz ~ 125MHz in 5V.

**±50ppm not available in Extended Temperature Range Option.

Fig. 1

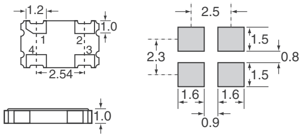

Pin Connection	
1	Tri-State
2	Gnd
3	Output
4	Vcc

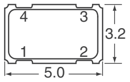

ECS-P53 (3.3V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +0.7V Min.	#3 = Output
Pin #1 = +0.2V Max.	#3 = High Impedance
ECS-P55 (5V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +2.0V Min.	#3 = Output
Pin #1 = +0.8V Max.	#3 = High Impedance

Fig. 2

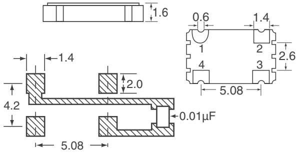

Pin Connection	
1	Tri-State
2	Gnd
3	Output
4	Vcc

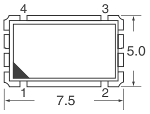

ECS-P73 (3.3V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +0.7V Min.	#3 = Output
Pin #1 = +0.2V Max.	#3 = High Impedance
ECS-P75 (5V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +2.0V Min.	#3 = Output
Pin #1 = +0.8V Max.	#3 = High Impedance

Fig. 3

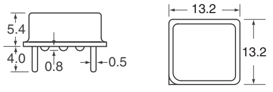

Pin Connection	
1	Tri-State
4	Gnd
5	Output
8	Vcc

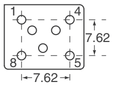

ECS-P83 (3.3V) Tri-State Control Voltage	
Pin #1 = Open	#5 = Output
Pin #1 = +0.7V Min.	#5 = Output
Pin #1 = +0.2V Max.	#5 = High Impedance
ECS-P85 (5V) Tri-State Control Voltage	
Pin #1 = Open	#5 = Output
Pin #1 = +2.0V Min.	#5 = Output
Pin #1 = +0.8V Max.	#5 = High Impedance

Fig. 4

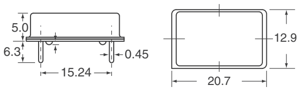

Pin Connection	
1	Tri-State
7	Gnd
8	Output
14	Vcc

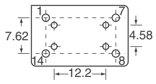

ECS-P143 (3.3V) Tri-State Control Voltage	
Pin #1 = Open	#8 = Output
Pin #1 = +0.7V Min.	#8 = Output
Pin #1 = +0.2V Max.	#8 = High Impedance
ECS-P145 (5V) Tri-State Control Voltage	
Pin #1 = Open	#8 = Output
Pin #1 = +2.0V Min.	#8 = Output
Pin #1 = +0.8V Max.	#8 = High Impedance

Fig.	Supply Voltage (V)	Frequency Tolerance	Operating Temperature	Case Style	Digi-Key † Part No.	Price Each 1	10	50	100
Surface Mount — RoHS Compliant									
1	3.3	±100ppm	-40°C ~ 85°C	3.2 x 5	ECS-P53-AN-ND	11.03	9.45	6.93	6.30
			-10°C ~ 70°C	3.2 x 5	ECS-P53-A-ND	11.03	9.45	6.93	6.30
		±50ppm	-10°C ~ 70°C	3.2 x 5	ECS-P53-B-ND	11.03	9.45	6.93	6.30
	5	±100ppm	-40°C ~ 85°C	3.2 x 5	ECS-P55-AN-ND	11.03	9.45	6.93	6.30
			-10°C ~ 70°C	3.2 x 5	ECS-P55-A-ND	11.03	9.45	6.93	6.30
		±50ppm	-10°C ~ 70°C	3.2 x 5	ECS-P55-B-ND	11.03	9.45	6.93	6.30
2	3.3	±100ppm	-40°C ~ 85°C	5 x 7	ECS-P73-AN-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	5 x 7	ECS-P73-A-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	5 x 7	ECS-P73-B-ND	6.77	5.81	4.26	3.87
	5	±100ppm	-40°C ~ 85°C	5 x 7	ECS-P75-AN-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	5 x 7	ECS-P75-A-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	5 x 7	ECS-P75-B-ND	6.77	5.81	4.26	3.87
Through Hole									
3	3.3	±100ppm	-40°C ~ 85°C	8 Pin DIP	ECS-P83-AN-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	8 Pin DIP	ECS-P83-A-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	8 Pin DIP	ECS-P83-B-ND	6.77	5.81	4.26	3.87
	5	±100ppm	-40°C ~ 85°C	8 Pin DIP	ECS-P85-AN-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	8 Pin DIP	ECS-P85-A-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	8 Pin DIP	ECS-P85-B-ND	6.77	5.81	4.26	3.87
4	3.3	±100ppm	-40°C ~ 85°C	14 Pin DIP	ECS-P143-AN-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	14 Pin DIP	ECS-P143-A-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	14 Pin DIP	ECS-P143-B-ND	6.77	5.81	4.26	3.87
	5	±100ppm	-40°C ~ 85°C	14 Pin DIP	ECS-P145-AN-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	14 Pin DIP	ECS-P145-A-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	14 Pin DIP	ECS-P145-B-ND	6.77	5.81	4.26	3.87
Through Hole — RoHS Compliant									
3	3.3	±100ppm	-40°C ~ 85°C	8 Pin DIP	ECS-P83-ANX-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	8 Pin DIP	ECS-P83-AX-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	8 Pin DIP	ECS-P83-BX-ND	6.77	5.81	4.26	3.87
	5	±100ppm	-40°C ~ 85°C	8 Pin DIP	ECS-P85-ANX-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	8 Pin DIP	ECS-P85-AX-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	8 Pin DIP	ECS-P85-BX-ND	6.77	5.81	4.26	3.87
4	3.3	±100ppm	-40°C ~ 85°C	14 Pin DIP	ECS-P143-ANX-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	14 Pin DIP	ECS-P143-AX-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	14 Pin DIP	ECS-P143-BX-ND	6.77	5.81	4.26	3.87
	5	±100ppm	-40°C ~ 85°C	14 Pin DIP	ECS-P145-ANX-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	14 Pin DIP	ECS-P145-AX-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	14 Pin DIP	ECS-P145-BX-ND	6.77	5.81	4.26	3.87

† Call Digi-Key with your Selected Base Part Number, and a Sales Representative will enter your desired frequency.

Programmable parts are non-cancelable and non-returnable!

CrystalPro Oscillator Programming System

Programmer

PC Based Programmer

ECS-PCPRO-ND

Designed specifically to program oscillator devices, the CrystalPro is a fast, accurate, low cost solution for your low to mid volume programming needs. Software and firmware upgrades can be downloaded off the web to support future parts from manufacturers and new technologies such as programmable TCXO and VCXO devices. The user-friendly CrystalWindow graphical interface insures complete and valid part specification and fast part type switching. Attaches to any Windows PC via standard serial port.

Features: • Fast - average programming is less than two seconds • Accurate frequency at time of programming cycle is within 5ppm • Simple - just select part number, type in desired frequency and click PROGRAM • Flexible - handling devices up to 250MHz and LVTTL/TTL/CMOS/ECL/PECL I/O technologies, the CrystalPro is designed to handle tomorrow’s technologies as they become available.

Description	Digi-Key Part No.	Price Each
PC Based Programmer	ECS-PCPRO-ND◆	1521.00

◆ ***RoHS compliant***

Blank Oscillator

Description	Digi-Key Part No.	Price Each
Blank Oscillator, Full Size	ECS-UPO-14PIN-ND	4.52
Blank Oscillator, Half Size	ECS-UPO-8PIN-ND	4.52
RoHS Compliant		
Blank Oscillator, 3 x 5 SMD	ECS-UPO-3X5-ND	7.35
Blank Oscillator, 5 x 7 SMD	ECS-UPO-5X7-ND	4.52
Blank Oscillator, Full Size	ECS-UPO-14PINX-ND	4.52
Blank Oscillator, Half Size	ECS-UPO-8PINX-ND	4.52

Adapter

Description	Digi-Key Part No.	Price Each
Adapter 3 x 5 SMD	ECS-UPO-3X5-FXT-ND	87.75
Adapter 5 x 7 SMD	ECS-UPO-5X7-FXT-ND	67.50

CITIZEN™

CSX-325P and CSX-750P Series Programmable Oscillator

Dim. in mm

Fig. 1 — CSX325P

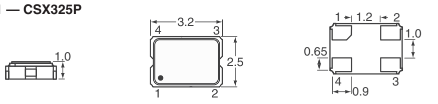

Pin Connection	
1	OE or ST
2	Gnd
3	Out
4	Vdd

Fig. 2 — CSX750P

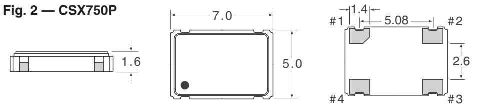

Pin Connection	
1	OE, ST
2	Gnd
3	Out
4	Vdd

How to Select Base Number:

# 1 Select Supply Voltage, Output and Function

# 2 Select Frequency Stability / Operating Temperature

# 3 Select Packaging *(leave last two boxes blank for Tube packaging).*

Call Digi-Key with your selected Base Part Number, and a Sales Representative will enter your desired frequency. *Parts come marked with Manufacture Date Lot Code only.*

Example Part Number:

CSX325 □□□ - ND

CSX750 □□□□□ - ND

#1

	Supply Voltage	Output	Function
PD	5.0	CMOS	Standby
PC	5.0	CMOS	Output Enable
PJ	3.3	CMOS	Standby
PB	3.3	CMOS	Output Enable
PK	5.0	TTL	Standby
PT	5.0	TTL	Output Enable

#2

	Frequency Stability/ Operating Temperature
C	±100ppm @ -20°C ~ 70°C
B	±50ppm @ -20°C ~ 70°C
F	±100ppm @ -40°C ~ 85°C

Frequency:
3.3V = 1.000 ~ 100.000 MHz
5.0V = 1.000 ~ 125.000 MHz

#3

	Packaging
TR	Tape and Reel

For Tube packaging, leave last two boxes blank.

Fig.	Digi-Key Part No.	Tube Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 100	500	1,000
1	CSX325□□□-ND‡	7.09	6.08	4.46	—	—	—	—
2	CSX750□□□-ND	4.73	4.05	2.97	CSX750□□□□□-ND	270.00	1012.50	1800.00
	Blank Oscillator — SMD							
1	CSX325P1P-UB-ND‡	5.40	5.00	4.46	—	—	—	—
2	CSX-750P1P-ND	3.60	3.33	2.97	—	—	—	—

‡ Bulk

Programmable parts are non-cancelable and non-returnable!

CTS nWave Programmable Clock Oscillator

CP5/CP7 Programmable Clock Oscillators

Dim. in mm

Fig. 1

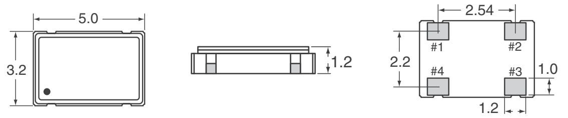

Fig. 2

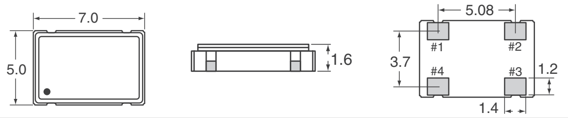

Pin 1	Pin 3
Logic 1	Output
Open	Output
Logic 0	High Impedance

Pin	Symbol	Description
1	EOH	Enable Input (Standby)
2	GND	Circuit and Package Ground
3	Output	RF Output
4	Vcc	Supply Voltage

Fig.	Supply Voltage (V)	Frequency Stability	Operating Temperature Range	Case Style (mm)	Digi-Key† Part No.	Price Each 1	10	50
1	2.5	±50ppm	-20°C ~ 70°C -40°C ~ 85°C	3.2 x 5	CP5NA-ND CP5NB-ND	9.98 9.98	8.55 8.55	6.27 6.27
	3.3	±50ppm	-20°C ~ 70°C -40°C ~ 85°C	3.2 x 5	CP5LA-ND CP5LB-ND	9.98 9.98	8.55 8.55	6.27 6.27
2	2.5	±50ppm	-20°C ~ 70°C -40°C ~ 85°C	5 x 7	CP7NA-ND CP7NB-ND	4.99 4.99	4.28 4.28	3.14 3.14
	3.3	±50ppm	-20°C ~ 70°C -40°C ~ 85°C	5 x 7	CP7LA-ND CP7LB-ND	4.99 4.99	4.28 4.28	3.14 3.14

† Call Digi-Key with your selected base part number and a sales representative will enter your desired frequency. **Frequency Range:** 2.000MHz ~ 200.000MHz
Parts come marked with Manufacture Date Lot Code only.

Programmable parts are non-cancelable and non-returnable!

ABRACON CORPORATION
The Power of Linking Together

AP2S and AP3S Series Low Jitter Programmable Oscillators

Dim. in mm

Fig. 1 — AP2S

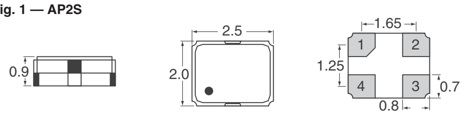

Pin Connection	
1	Standby
2	Ground
3	Output
4	Vdd

Fig. 2 — AP3S

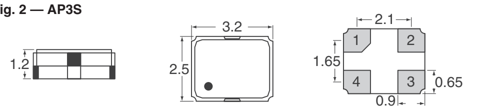

Pin Connection	
1	Tri-state
2	Ground
3	Output
4	Vdd

How to Select a Base Part Number:

#1 Select Package

#2 Select Supply Voltage

#3 Select Frequency over Temperature Range

Call Digi-Key with your selected Base Part Number and a Sales Representative will enter your desired frequency.

Example Part Number:

AP □□□□□ - ND

#1 Package	
2S	2.0 x 2.5
3S	2.5 x 3.2

#2 Supply Voltage	
1	2.5V
2	1.8V
3	3.3V

#3 Frequency Stability over Temperature Range	
EJ	±20ppm (-20°C ~ 70°C)
ER	±25ppm (-20°C ~ 70°C)
EC	±50ppm (-20°C ~ 70°C)
LJ	±20ppm (-40°C ~ 85°C)
LR	±25ppm (-40°C ~ 85°C)
LC	±50ppm (-40°C ~ 85°C)

AP2S Series Frequency:
2.5V = 3.0MHz ~ 90.0MHz
1.8V = 3.0MHz ~ 75.0MHz
3.3V = 3.0MHz ~ 110.0MHz

AP3S Series Frequency:
2.5V = 1.0MHz ~ 166.0MHz
1.8V = 1.0MHz ~ 133.0MHz
3.3V = 1.0MHz ~ 200.0MHz

Fig.	Digi-Key Part No.	Price Each 1	10	50
1	AP2S□□□-ND	8.40	7.20	5.28
2	AP3S□□□-ND	6.83	5.85	4.29

Note: *For fixed frequency oscillators please reference ASD and ASE Series Oscillators.*

Programmable parts are non-cancelable and non-returnable!

ASEP Series 3.2mm x 2.5mm Programmable Oscillators

Dim. in mm

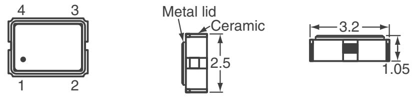

Pin Connection	
1	OE or Standby
2	GND
3	Output
4	Vdd

How to Select a Base Part Number:

#1 Select Output Voltage

#2 Select Frequency Tolerance

#3 Select Temperature Range

#4 Select Function

Call Digi-Key with your selected Base Part Number and a Sales Representative will enter your desired frequency.

Example Part Number:

ASEP □□□□ - ND

#1 Output Voltage	
3	3.3V
5	5.0V

#2 Frequency Tolerance	
J	±20ppm
R	±25ppm
K	±30ppm
H	±35ppm
Z	±100ppm

#3 Temperature Range	
D	-10°C ~ 60°C
F	-30°C ~ 70°C
N	-30°C ~ 85°C
L	-40°C ~ 85°C

#4 Select Function	
Blank	Output Enable
B	Standby

Frequency Range: 1.0MHz ~ 125.0MHz

Digi-Key Part No.	Price Each 1	10	50
ASEP□□□□-ND	6.30	5.40	3.96

Programmable parts are non-cancelable and non-returnable!

CARDINAL COMPONENTS, INC.

FIPO™ Field Instantly Programmable Oscillators

The **CPP Series** is a Standard series and is available in Styles 1, 4, 5, 7 and 8. The frequency range is 1.000MHz ~ 133.000MHz for 5V and 1.000MHz for 3.3V. The **CPPL Series** is an Ultra Low Jitter series and is available in Styles 1, 4, 5, 7 and 8. The frequency range is 1.000MHz ~ 133.000MHz for both 5V and 3.3V.

The **CPPFX Series** is an Extended Temperature, High Stability series and is available in Style 7 only. The frequency range is 1.000MHz ~ 133.000MHz for both 5V and 3.3V. The temperature range is -40°C ~ 85°C and the frequency stability is ±25ppm.

Fig. 1 — (Style 4) Half Size, 8-Pin Dip

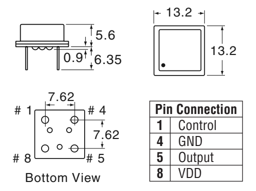

Pin Connection	
1	Control
4	GND
5	Output
8	VDD

Fig. 2 — (Style 1) Full Size 14 Pin Dip

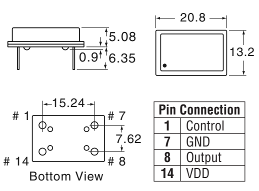

Pin Connection	
1	Control
7	GND
8	Output
14	VDD

Fig. 3 — (Style 7) 5x7 Ceramic SMD

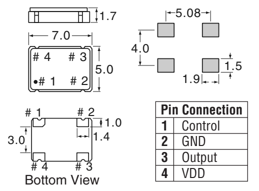

Pin Connection	
1	Control
2	GND
3	Output
4	VDD

Fig. 4 — (Style 5) 3.2 x 5 Ceramic SMD

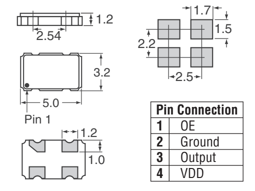

Pin Connection	
1	OE
2	Ground
3	Output
4	VDD

Fig. 5 — (Style 8) Plastic SMD

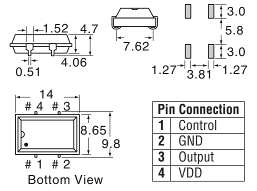

Pin Connection	
1	Control
2	GND
3	Output
4	VDD

Example Part Number:

CPP/CPPL/CPPFX □□-□□□□□-ND

#1	Output
C	CMOS
T	TTL

#2	Package Style
1	Full Size
4	Half Size
5	3.2 x 5 Ceramic
7	5 x 7 Ceramic
8	Plastic SMD

CPPFX Available in 5 x 7 only.

#3	Voltage
H	5 Volt
L	3.3 Volt

H = 1 thru 133MHz
L = 1 thru 100MHz

#4	Packaging
T	Tube
Z	Tape & Reel

Package style 1 and 4 available in tube packaging only. Package style 7 and 8 available in tube and tape & reel

#5	Operating Temp.
0	0°C ~ 70°C
5	-20°C ~ 70°C
7	-40°C ~ 85°C

CPPFX available in -40°C ~ 85°C only.

#6	Stability
6	±100ppm
P	±50ppm
R	±25ppm

R not available in -40°C to 80°C CPPFX available in ±25ppm only.

#7	Function
T	Tri-State
P	Power Down

Tri-State Mode – The output of the part is weakly pulled low when the control pin goes low. The active circuitry continues to operate, allowing a rapid return to normal operation when the control pin goes high.

Power Down Mode – When the control pin goes low, all active circuitry on the chip within the oscillator is shut down. For reactivation, time in which the part regains its output is minimal.

How to Select a Base Number:

# 1 = Select Output
# 2 = Select Package Style
# 3 = Select Voltage
# 4 = Select Packaging
# 5 = Select Operating Temp.
# 6 = Select Stability
# 7 = Select Function

* Call Digi-Key with your selected Base Part Number, and a Sales Representative will enter your desired frequency.

Programmable parts are non-cancelable and non-returnable!

Fig.	Digi-Key * Base Part No.	Price Each			Tape and Reel Pricing		
		1	10	50	100	500	1,000
1	CPPC4-□T□□□-ND	7.09	6.08	4.46	—	—	—
	CPPC4-□T□R□-ND	8.14	6.98	5.12	—	—	—
	CPPLC4-□T□□□-ND	8.14	6.98	5.12	—	—	—
	CPPLT4-□T□□□-ND	8.14	6.98	5.12	—	—	—
	CPPT4-□T□□□-ND	7.09	6.08	4.46	—	—	—
	CPPT4-□T□R□-ND	8.14	6.98	5.12	—	—	—
2	CPPC1-□T□□□-ND	7.09	6.08	4.46	—	—	—
	CPPC1-□T□R□-ND	8.14	6.98	5.12	—	—	—
	CPPLC1-□T□□□-ND	8.14	6.98	5.12	—	—	—
	CPPLT1-□T□□□-ND	8.14	6.98	5.12	—	—	—
	CPPT1-□T□□□-ND	7.09	6.08	4.46	—	—	—
	CPPT1-□T□R□-ND	8.14	6.98	5.12	—	—	—
3	CPPC7-□□□□□-ND	6.56	5.63	4.13	375.00	1406.25	2500.00
	CPPC7-□□□R□-ND	7.56	6.48	4.76	432.00	1620.00	2880.00

Fig.	Digi-Key * Base Part No.	Price Each			Tape and Reel Pricing		
		1	10	50	100	500	1,000
3	CPPFXC7-□□7R□-ND	8.72	7.47	5.48	498.00	1867.50	3320.00
	CPPFXT7-□□7R□-ND	8.72	7.47	5.48	498.00	1867.50	3320.00
	CPPLC7-□□□□□-ND	7.56	6.48	4.76	432.00	1620.00	2880.00
	CPPLT7-□□□□□-ND	7.56	6.48	4.76	432.00	1620.00	2880.00
	CPPT7-□□□□□-ND	6.56	5.63	4.13	382.50	1434.38	2550.00
	CPPT7-□□□R□-ND	7.56	6.48	4.76	439.50	1648.13	2930.00
4	CPPLC5-□T□□□-ND	9.98	8.55	6.27	—	—	—
	CPPLT5-□T□□□-ND	9.98	8.55	6.27	—	—	—
5	CPPC8-□□□□□-ND	7.09	6.08	4.46	405.00	1518.75	2700.00
	CPPC8-□□□R□-ND	8.14	6.98	5.12	465.00	1743.75	3100.00
	CPPLC8-□□□□□-ND	8.14	6.98	5.12	465.00	1743.75	3100.00
	CPPLT8-□□□□□-ND	8.14	6.98	5.12	465.00	1743.75	3100.00
	CPPT8-□□□□□-ND	7.09	6.08	4.46	412.50	1546.88	2750.00
	CPPT8-□□□R□-ND	8.14	6.98	5.12	472.50	1771.88	3150.00

FIPO™ Programmable (Blank) Oscillators

FX5X7-ND	5x7 Ceramic SMD, ±25ppm	**$5.81**
LX1FS-ND	Full Size, ±50ppm or ±100ppm	**$5.43**
LX4HS-ND	Half Size, ±50ppm or ±100ppm	**$5.43**
LX5-ND	3.2 x 5mm SMD, ±50ppm or ±100ppm	**$6.65**
LX7-ND	5x7 Ceramic SMD, ±50ppm or 100ppm	**$5.04**
LX8-ND	Plastic SMD J-lead, ±50ppm or ±100ppm	**$5.43**
X1FS2-ND	Full Size, ±25ppm	**$5.43**
X1FS15-ND	Full Size, ±50ppm or ±100ppm	**$4.73**
X4HS2-ND	Half Size, ±25ppm	**$5.43**
X4HS15-ND	Half Size, ±50ppm or ±100ppm	**$4.73**
5X72-ND	5x7 Ceramic SMD, ±25ppm	**$5.04**
5X715-ND	5x7 Ceramic SMD, ±50ppm or 100ppm	**$4.38**
X8J2-ND	Plastic SMD, ±25ppm SMD	**$5.43**
X8J15-ND	Plastic SMD, ±50ppm or ±100ppm	**$4.73**

Programmers and Adapter Sockets

PG-3000-ND	PC Based Programmer for FIPO Parts	**$489.00**
SC-5320-ND	Socket for 5mm x 3.2mm Oscillators (use with PG-3000, PG3100 and PG2000P)	**$47.25**
SC2000-ND	Socket for 5mm x 7mm Ceramic Oscillators (use with PG-3000, PG3100 and PG2000P)	**$47.38**
SC2500-ND	Socket for Style 8 Plastic Oscillators (use with PG-3000, PG3100 and PG2000P)	**$88.00**

Note: For Programmer features and system requirements, please see appropriate data sheets on Digi-Key website.

High Reliability Oscillators, VCXOs, TCXOs and TCVCXOs

Fig. 1

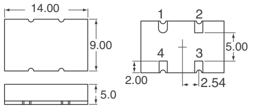

A

Pin Connection	
1	LVPECL-
2	Ground
3	LVPECL+
4	VDD

B

Pin Connection	
1	LVDSL-
2	Ground
3	LVDS+
4	VDD

Fig. 2

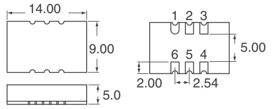

A

Pin Connection	
1	DISABLE
2	NO CONNECT
3	Ground
4	LVPECL+
5	LVPECL-
6	Vdd

B

Pin Connection	
1	ENABLE
2	NO CONNECT
3	Ground
4	LVDS+
5	LVDS-
6	Vdd

C

Pin Connection	
1	VCONTROL
2	ENABLE
3	Ground
4	LVPECL+
5	LVPECL-
6	Vdd

D

Pin Connection	
1	VCONTROL
2	DISABLE
3	Ground
4	LVPECL+
5	LVPECL-
6	Vdd

E

Pin Connection	
1	VCONTROL
2	ENABLE
3	Ground
4	LVDS+
5	LVDS-
6	Vdd

Fig.	Output Type	Frequency (MHz)	Digi-Key Part No.	Price Each 1	5	10	Cardinal Components Part No.
Oscillators							
1A	LVPECL	155.520	370-1000-ND	60.00	48.00	45.61	CFE4-A7BP-155.52
		156.250	370-1001-ND	60.00	48.00	45.61	CFE4-A7BP-156.25
		212.500	370-1002-ND	60.00	48.00	45.61	CFE4-A7BP-212.5
		311.040	370-1003-ND	72.50	58.00	55.11	CFE4-A7BP-311.04
		622.080	370-1004-ND	72.50	58.00	55.11	CFE4-A7BP-622.08
1B	LVDS	155.520	370-1005-ND	60.00	48.00	45.61	CFL4-A7BP-155.52
		156.250	370-1006-ND	60.00	48.00	45.61	CFL4-A7BP-156.25
		212.500	370-1007-ND	60.00	48.00	45.61	CFL4-A7BP-212.5
		311.040	370-1008-ND	72.50	58.00	55.11	CFL4-A7BP-311.04
		622.080	370-1009-ND	72.50	58.00	55.11	CFL4-A7BP-622.08
2A	LVPECL	155.520	370-1010-ND	60.00	48.00	45.61	CFED-A7BP-155.52TS
		156.250	370-1011-ND	60.00	48.00	45.61	CFED-A7BP-156.25TS
		212.500	370-1012-ND	60.00	48.00	45.61	CFED-A7BP-212.5TS
		311.040	370-1013-ND	72.50	58.00	55.11	CFED-A7BP-311.04TS
		622.080	370-1014-ND	72.50	58.00	55.11	CFED-A7BP-622.08TS
2B	LVDS	155.520	370-1015-ND	60.00	48.00	45.61	CFL-A7BP-155.52TS
		156.250	370-1016-ND	60.00	48.00	45.61	CFL-A7BP-156.25TS
		212.500	370-1017-ND	60.00	48.00	45.61	CFL-A7BP-212.5TS
		311.040	370-1018-ND	72.50	58.00	55.11	CFL-A7BP-311.04TS
		622.080	370-1019-ND	72.50	58.00	55.11	CFL-A7BP-622.08TS
VCXOs							
2C	LVPECL	155.520	370-1020-ND	65.00	52.00	49.41	CFVE-A7BP-155.52TS
		156.250	370-1021-ND	65.00	52.00	49.41	CFVE-A7BP-156.25TS
		212.500	370-1022-ND	65.00	52.00	49.41	CFVE-A7BP-212.5TS
		311.040	370-1023-ND	77.50	62.00	58.91	CFVE-A7BP-311.04TS
		622.080	370-1024-ND	77.50	62.00	58.91	CFVE-A7BP-622.08TS
2D	LVPECL	155.520	370-1025-ND	65.00	52.00	49.41	CFVED-A7BP-155.52TS
		156.250	370-1026-ND	65.00	52.00	49.41	CFVED-A7BP-156.25TS
		212.500	370-1027-ND	65.00	52.00	49.41	CFVED-A7BP-212.5TS
		311.040	370-1028-ND	77.50	62.00	58.91	CFVED-A7BP-311.04TS
		622.080	370-1029-ND	77.50	62.00	58.91	CFVED-A7BP-622.08TS

Fig.	Output Type	Frequency (MHz)	Digi-Key Part No.	Price Each 1	5	10	Cardinal Components Part No.
2E	LVDS	155.520	370-1030-ND	65.00	52.00	49.41	CFVL-A7BP-155.52TS
		156.250	370-1031-ND	65.00	52.00	49.41	CFVL-A7BP-156.25TS
		212.500	370-1032-ND	65.00	52.00	49.41	CFVL-A7BP-212.5TS
		311.040	370-1033-ND	77.50	62.00	58.91	CFVL-A7BP-311.04TS
		622.080	370-1034-ND	77.50	62.00	58.91	CFVL-A7BP-622.08TS
TCXOs							
2A	LVPECL	155.520	370-1035-ND	72.50	58.00	55.11	CTED-A5B3-155.52TS
		156.250	370-1036-ND	72.50	58.00	55.11	CTED-A5B3-156.25TS
		212.500	370-1037-ND	72.50	58.00	55.11	CTED-A5B3-212.5TS
		311.040	370-1038-ND	85.00	68.00	64.61	CTED-A5B3-311.04TS
		622.080	370-1039-ND	85.00	68.00	64.61	CTED-A5B3-622.08TS
2B	LVDS	155.520	370-1040-ND	72.50	58.00	55.11	CTL-A5B3-155.52TS
		156.250	370-1041-ND	72.50	58.00	55.11	CTL-A5B3-156.25TS
		212.500	370-1042-ND	72.50	58.00	55.11	CTL-A5B3-212.5TS
		311.040	370-1043-ND	85.00	68.00	64.61	CTL-A5B3-311.04TS
		622.080	370-1044-ND	85.00	68.00	64.61	CTL-A5B3-622.08TS
TCVCXOs							
2D	LVPECL	155.520	370-1045-ND	72.50	58.00	55.11	CTVED-A5B3-155.52TS
		156.250	370-1046-ND	72.50	58.00	55.11	CTVED-A5B3-156.25TS
		212.500	370-1047-ND	72.50	58.00	55.11	CTVED-A5B3-212.5TS
		311.040	370-1048-ND	85.00	68.00	64.61	CTVED-A5B3-311.04TS
		622.080	370-1049-ND	85.00	68.00	64.61	CTVED-A5B3-622.08TS
2E	LVDS	155.520	370-1050-ND	72.50	58.00	55.11	CTVL-A5B3-155.52TS
		156.250	370-1051-ND	72.50	58.00	55.11	CTVL-A5B3-156.25TS
		212.500	370-1052-ND	72.50	58.00	55.11	CTVL-A5B3-212.5TS
		311.040	370-1053-ND	85.00	68.00	64.61	CTVL-A5B3-311.04TS
		622.080	370-1054-ND	85.00	68.00	64.61	CTVL-A5B3-622.08TS

Note: For additional specifications, please see the manufacturer's data sheets.

EPSON TOYOCOM SG8002 Programmable Oscillators

The SG-8002 Series gives you the flexibility to solve many different application problems with a one time programmable device. Programmable Oscillators provide the ability to pick a custom frequency in one of seven different packages available in SMD and Thru-Hole styles. All packages are pin compatible with the Epson SG-645, SG-636, SG-615, SG-531, SG-51, SG-710 and SG-310 Oscillators.

Fig. 1 — SG-645 Package (JF)

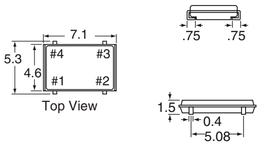

Fig. 2 — SG-636 Package (JC)

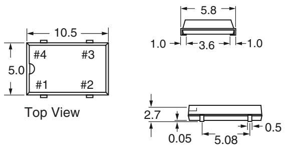

Fig. 3 — SG-615 Package (JA)

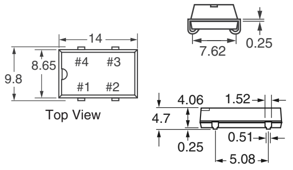

Fig. 4 — SG-531 Package (DC)

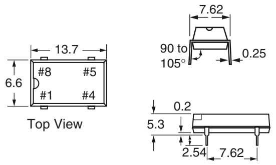

Fig. 5 — SG-51 Package (DB)

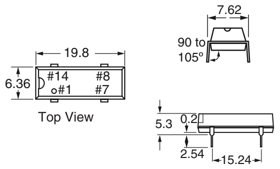

Fig. 6 — SG-710 Package (CA)

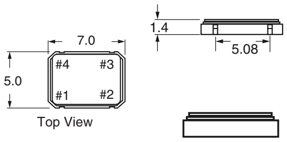

Fig. 7 — SG-310 Package (CE) ***NEW!***

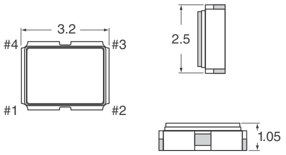

A

Pin Connection	
1	OE or ST
2	GND
3	Out
4	Vdd

B

Pin Connection	
1	OE or ST
4	GND
5	Out
8	Vdd

C

Pin Connection	
1	OE or ST
7	GND
8	Out
14	Vdd

Example Part Number:

SG-8002
SGR-8002 ☐☐ - ☐☐☐ **-ND**

#1	**Package**
JA	SG-615
JC	SG-636
DB	SG-51
DC	SG-531
CA	SG-710
JF	SG-645
CE	SG-310

#2	**Function**
P	Output Enable
S	Standby

#3	**Power Supply Duty Level**	**#4**	**Frequency Stability**	**Operating Temperature**
H	5.0V, CMOS	***B***	±50ppm	-20°C ~ 70°C
		C	±100ppm	
		M†	±100ppm	-40°C ~ 85°C
T	5.0V, TTL	***B***	±50ppm	-20°C ~ 70°C
		C	±100ppm	
		M†	±100ppm	-40°C ~ 85°C
C	3.3V, CMOS	***B***	±50ppm	-20°C ~ 70°C
		C	±100ppm	
		M†	±100ppm	-40°C ~ 85°C

† Not available in JC Package

How to order:

#1 — Select Package
#2 — Select Function
#3 — Select Power Supply Duty Level
#4 — Select Frequency Stability and Operating Temperature

Call Digi-Key with your Base Part Number and an Operator will enter your desired frequency.

Available Frequency Range: 1.000MHz ~125.000MHz (except for those listed below)
SG-8002CA/DB/DC/JA: PHM/PTM/SHM/STM: 1.000MHz ~ 55.000MHz
SG-8002JF: PHM/PTM/SHM/STM: 1.000MHz ~ 40.000MHz
SG-8002CE: PHM/PTM/SHM/STM: 1.000MHz ~ 27.000MHz

Parts coming from Digi-Key are marked with Manufacture Date Lot Code only.
Fully marked parts are available as a non-catalog order.

One Time Programmable parts are non-cancelable, non-returnable!

Fig.	Digi-Key Base Part No.†	Price Each 1	10	50
1A	SG-8002JF-☐☐☐-ND	5.25	4.50	3.30
2A	SG-8002JC-☐☐☐-ND	5.88	5.04	3.70
3A	SG-8002JA-☐☐☐-ND	5.78	4.95	3.63
4B	SG-8002DC-☐☐☐-ND	5.15	4.41	3.24
5C	SG-8002DB-☐☐☐-ND	5.15	4.41	3.24
	Lead Free/RoHS Compliant			
1A	SGR-8002JF-☐☐☐-ND	5.25	4.50	3.30
2A	SGR-8002JC-☐☐☐-ND	5.88	5.04	3.70
3A	SGR-8002JA-☐☐☐-ND	5.78	4.95	3.63
4B	SGR-8002DC-☐☐☐-ND	5.15	4.41	3.24
5C	SGR-8002DB-☐☐☐-ND	5.15	4.41	3.24
6A	SG-8002CA-☐☐☐-ND	6.25	5.36	3.93
7A	SG-8002CE-☐☐☐-ND ***NEW!***	6.25	5.36	3.93

† For Complete Base Part Number, substitute the corresponding letter for ☐.

Real Time Clock Modules

Frequency Tolerance	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epson Part No.
5±23ppm	14-SOP	SE3245CT-ND	5.04	4.32	3.60	SE3245TR-ND	1,000	2400.00	RTC-4543SA:A0
±10ppm	18-Dip	SE3247-ND†	8.58	7.15	5.07	—	—	—	RTC-62421A
±50ppm	18-Dip	SE3248-ND†	7.74	6.45	4.57	—	—	—	RTC-62421B
±20ppm	24-SOP	SE3249CT-ND	12.25	10.50	8.75	SE3249TR-ND	250	1457.50	RTC-62423A:3
±10ppm	18-Dip	SE3231-ND†	7.62	6.35	4.51	—	—	—	RTC-72421A
±50ppm	18-Dip	SE3232-ND†	7.05	5.88	4.18	—	—	—	RTC-72421B
±20ppm	24-SOP	SE3241-ND†	8.55	7.13	5.07	—	—	—	RTC-72423A
±20ppm	24-SOP	—	—	—	—	SE3241TR-ND	250	1187.50	RTC-72423A:3
±50ppm	24-SOP	SE3242-ND†	7.50	6.25	4.44	—	—	—	RTC-72423B
±50ppm	24-SOP	—	—	—	—	SE3242TR-ND	250	1041.67	RTC-72423B:3
5±23ppm	20-VSOJ	SE3252CT-ND	5.88	5.04	4.20	SE3252TR-ND	250	697.50	RTC-8564JE:3
5±23ppm	14-SOP	SE3253-ND†	3.50	3.00	2.50	—	—	—	RX-8581SA:B
			RoHS Compliant						
5±23ppm	14-SOP	SER3245CT-ND	5.04	4.32	3.60	SER3245TR-ND	1,000	2016.00	RTC-4543SA:A0:ROHS
±10ppm	18-Dip	SER3247-ND†	10.01	8.58	6.58	—	—	—	RTC-62421A:ROHS
±50ppm	18-Dip	SER3248-ND†	9.03	7.74	5.94	—	—	—	RTC-62421B:ROHS
±20ppm	24-SOP	SER3249CT-ND	12.25	10.50	8.75	SER3249TR-ND	250	1247.00	RTC-62423A:3:ROHS
±10ppm	18-Dip	SER3231-ND†	8.89	7.62	5.85	—	—	—	RTC-72421A:ROHS
±20ppm	24-SOP	SER3241-ND†	9.98	8.55	6.56	—	—	—	RTC-72423A:ROHS
±20ppm	24-SOP	—	—	—	—	SER3241TR-ND	250	1015.25	RTC-72423A:3:ROHS
±50ppm	24-SOP	SER3242-ND†	8.75	7.50	5.75	—	—	—	RTC-72423B:ROHS
±50ppm	24-SOP	SER3242CT-ND	8.75	7.50	6.25	SER3242TR-ND	250	906.25	RTC-72423B:3:ROHS
5±23ppm	20-VSOJ	SER3252CT-ND	5.88	5.04	4.20	SER3252TR-ND	250	630.00	RTC-8564JE:3:ROHS
5±23ppm	14-SOP	SER3253CT-ND	3.50	3.00	2.50	SER3253TR-ND	250	382.50	RX-8581SA:B3:ROHS

† Bulk

SG-3030JC 32.768kHz Crystal Oscillators

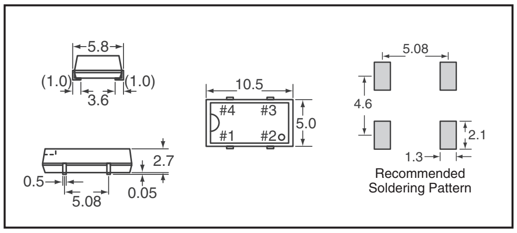

Specifications:
• **Voltage:** 1.5V ~ 5.5V • **Interface Power Supply Voltage:** 1.5V ~ 5.5V • **Storage Temperature:** -55°C ~ 125°C • **Operating Temperature:** -40°C ~ 85°C • **Frequency Tolerance:** +5/-23ppm • **Supply Current:** 2μA Maximum • **Duty Cycle:** 45% ~ 55% • **Start-up Time:** 1s • **Output Load CMOS:** 15pF Maximum • **Rise Time CMOS:** 200ns Maximum • **Fall Time CMOS:** 200ns Maximum

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 250	Epson Part No.
32.768	SE3618CT-ND	3.12	2.67	2.23	SE3618TR-ND	371.58	SG-3030JC 32.7680KB3
			RoHS Compliant				
32.768	SER3618CT-ND	3.12	2.67	2.23	SER3618TR-ND	345.00	SG-3030JC 32.7680KB3:ROHS

SG-9001CA Series Oscillators with Spread Spectrum

Specifications:
• **Supply Voltage:** 3.3V ± .3V • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -40°C ~ 125°C • **Supply Current:** 30mA • **Duty Cycle:** 45% ~ 55% • **Start-up Time:** 10ms • **Output Voltage:** -0.4V (VOH); .4V (VOL) • **Load Capacitance:** 15.0pF • **Rise Time CMOS:** 2.7ns • **Fall Time CMOS:** 2.7ns

Spread Spectrum Specifications

	Code	C10P	C15P	C20P
Center Spread	**Code**	**C10P**	**C15P**	**C20P**
	%	±1.0%	±1.5%	±2.0%
Down Spread	**Code**	**D15P**	—	—
	%	-1.5%	—	—

No.	Pin
1	OE
2	(SSON)*
3	GND
4	OUT
5	N.C.
6	VDD

* SSON Terminal should be kept open or GND

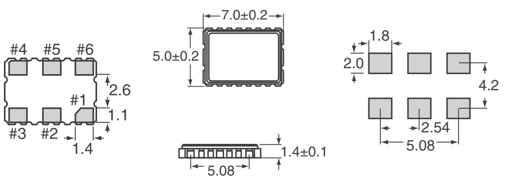

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
16.6667	SE1915-ND	6.69	5.73	4.40	SG-9001CA C10P 16.6667MC
25.0000	SE1916-ND	6.69	5.73	4.40	SG-9001CA C10P 25.0000MC
25.0000	SE1917-ND	6.69	5.73	4.40	SG-9001CA C20P 25.0000MC
33.3333	SE1918-ND	6.69	5.73	4.40	SG-9001CA C15P 33.3333MC
33.3333	SE1919-ND	6.69	5.73	4.40	SG-9001CA D15P 33.3333MC
40.0000	SE1920-ND	6.69	5.73	4.40	SG-9001CA C20P 40.0000MC
50.0000	SE1921-ND	6.69	5.73	4.40	SG-9001CA D15P 50.0000MC
50.0000	SE1922-ND	6.69	5.73	4.40	SG-9001CA C20P 50.0000MC
66.6667	SE1923-ND	6.69	5.73	4.40	SG-9001CA C20P 66.6667MC
66.6667	SE1924-ND	6.69	5.73	4.40	SG-9001CA D15P 66.6667MC

EG2001CA Series Surface Mount SAW Oscillators

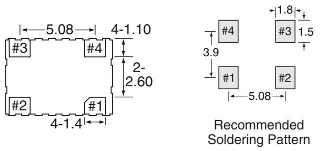

Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

Specifications:
• **Supply Voltage:** 3.3V ± .3V • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 100°C • **Supply Current:** 50mA Maximum • **Start-up Time:** 10ms Maximum • **Rise Time CMOS:** 2ns Maximum • **Fall Time CMOS:** 2ns Maximum • **Frequency Stability:** ±100ppm, 0°C ~ 70°C • **Duty Cycle:** 45%-55% @ 1/2 VDD • **Output Load:** 25pF Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epson Part No.
106.25	SE1008CT-ND	11.25	10.13	9.00	SE1008TR-ND	1,000	7497.00	EG-2001CA 106.2500M-PCHL0
125.00	SE1009CT-ND	11.25	10.13	9.00	SE1009TR-ND	1,000	7503.00	EG-2001CA 125.0000M-PCHL0
133.00	SE1007CT-ND	15.75	13.50	11.25	SE1007TR-ND	250	1875.68	EG-2001CA 133.0000M-PCHL3

EG2101CA Series Surface Mount LV-PECL SAW Oscillators

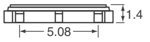

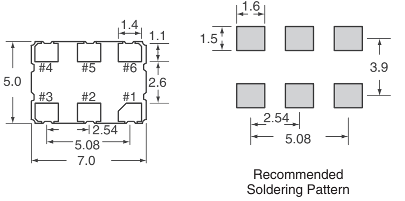

Pin Connection	
1	OE
2	NC
3	GND
4	OUT
5	$\overline{\text{OUT}}$
6	Vcc

Specifications:
• **Supply Voltage:** 3.3V ± .15V • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 100°C • **Supply Current:** 60mA Maximum • **Start-up Time:** 10ms Maximum • **Frequency Tolerance:** ±100ppm • **Duty Cycle:** 45% ~ 55% • **Rise Time:** 600ps Maximum • **Fall Time:** 600ps Maximum • **Accumulated Jitter:** 4ps typ.; 5ps Maximum • **Output Load:** 50Ω • **Output Disable Current:** 25mA Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 250	Epson Part No.
125.0000	SE3610CT-ND	38.15	32.70	27.25	SE3610TR-ND	4542.49	EG-2101CA 125.0000M-PCHL3
155.5200	SE3611CT-ND	38.15	32.70	27.25	SE3611TR-ND	4542.49	EG-2101CA 155.5200M-PCHL3
156.2500	SE3612CT-ND	42.35	36.30	30.25	SE3612TR-ND	5042.49	EG-2101CA 156.2500M-PCHL3
159.3750	SE3613CT-ND	42.35	36.30	30.25	SE3613TR-ND	5042.49	EG-2101CA 159.3750M-PCHL3
161.1328	SE3614CT-ND	42.35	36.30	30.25	SE3614TR-ND	5042.49	EG-2101CA 161.1328M-PCHL3
250.0000	SE3615CT-ND	42.35	36.30	30.25	SE3615TR-ND	5042.49	EG-2101CA 250.0000M-PCHL3

EG2121CA Series Surface Mount LV-PECL SAW Oscillators

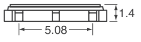

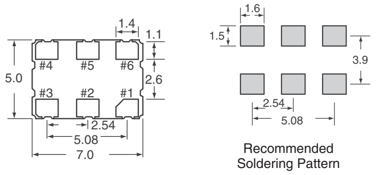

Pin Connection	
1	OE
2	NC
3	GND
4	OUT
5	$\overline{\text{OUT}}$
6	Vcc

Specifications:
• **Supply Voltage:** 2.5V ± .125V • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 100°C • **Supply Current:** 80mA Maximum • **Start-up Time:** 10ms Maximum • **Frequency Tolerance:** ±100ppm • **Duty Cycle:** 40% ~ 60% • **Rise Time:** 400ps • **Fall Time:** 400ps • **Accumulated Jitter:** 4ps typ.; 5ps Maximum • **Output Load:** 50Ω

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 250	Epson Part No.
125.00	SE3616CT-ND	46.20	39.60	33.00	SE3616TR-ND	5500.01	EG-2121CA 125.0000M-PHPAL3
156.25	SE3617CT-ND	49.35	42.30	35.25	SE3617TR-ND	5875.01	EG-2121CA 156.2500M-PHPAL3

EPSON TOYOCOM SG615 Series Surface Mount Quartz Crystal Oscillators

Specifications:	SG-615P	SG-615PTJ	SG-615PH	SG-615PCV	SG-615PCG
Supply Voltage	5V±.5V			2.7V ~ 5.5V	2.7V ~ 3.6V
Storage Temperature	-55°C ~ 125°C				
Operating Temperature	-20°C ~ 70°C			-10°C ~ 70°C	-40°C ~ 85°C
Frequency Stability	Parts ending in MB ±50ppm, MC ±100ppm				
Current Consumption	23mA Max.	35mA Max.		50mA Max.	12mA Max.
Output Disable Current	12mA Max.	28mA Max.	20mA Max.	27mA Max.	10mA Max.
Oscillation Start-up Time	4ms Max.	10ms Max.			12ms Max.
Duty					
CMOS	40% ~ 60%	—	40% ~ 60%	35% ~ 60%	45% ~ 55%
TTL	40% ~ 60%	45% ~ 55%	—		
Output Voltage					
VOH	Vcc -.4V Min.	2.4V Min.	Vcc -.4VMin.	Vcc -.5V	Vcc -.4VMin.
VOL	.4V Max.				
Output Enable / Disable Input Volt.					
VIH	2V Min.	3.5V Min.	2V Min.	.7V Min.	70% Vcc Min.
VIL	.8V Max.	1.5V Max.	.8V Max.	.2V Max.	20% Vcc Max.
Output Fall Time					
CMOS	8ns Max.	—	7ns Max.	4ns Max.	
TTL	8ns Max.	5ns Max.	—		

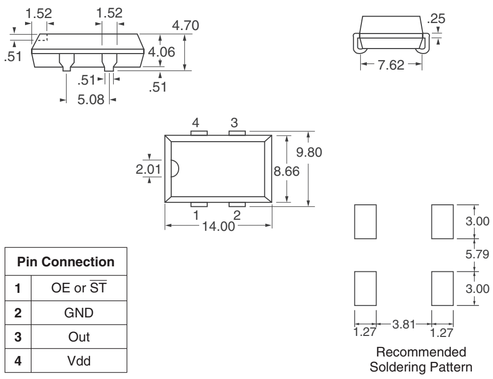

Pin Connection	
1	OE or $\overline{\text{ST}}$
2	GND
3	Out
4	Vdd

Recommended Soldering Pattern

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel† Qty.	Pricing	Epson Part No.
SG-615P (CMOS, TTL compatible type)							
1.54400	SE2217CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 1.5440MC0
1.84320	SE2201CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 1.8432MC0
2.00000	SE2202CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 2.0000MC0
2.04800	SE2218CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 2.0480MC0
2.45760	SE2203CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 2.4576MC0
3.07200	SE2219CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 3.0720MC0
3.57900	SE2222CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 3.579545MC0
3.68640	SE2204CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 3.6864MC0
4.00000	SE2205CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 4.0000MC0
5.00000	SE2224CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 5.0000MC0
6.00000	SE2207CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 6.0000MC0
6.14400	SE2226CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 6.1440MC0
7.37200	SE2227CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 7.3728MC0
8.19200	SE2228CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 8.1920MC0
9.83000	SE2229CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 9.8300MC0
10.00000	SE2209CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 10.0000MC0
11.05900	SE2232CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 11.0592MC0
12.00000	SE2210CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 12.0000MC0
12.28800	SE2233CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 12.2880MC0
14.31818	SE2211CT-ND◆	3.50	3.00	2.50	1,000	1670.00	SG-615P 14.31818MC0
14.74560	SE3619CT-ND	3.50	3.00	2.50	250	417.50	SG-615P 14.7456MC3
16.00000	SE2212CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 16.0000MC0
18.43200	SE2213CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 18.4320MC0
18.86900	SE2238CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 18.8696MC0
19.66000	SE2239CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 19.6608MC0
20.00000	SE2214CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 20.0000MC0
20.48000	SE2240CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 20.4800MC0
22.11800	SE2241CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 22.1184MC0
24.00000	SE2215CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 24.0000MC0
25.00000	SE3620CT-ND	3.89	3.33	2.78	250	462.50	SG-615P 25.0000MB3
25.00000	SE2242CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615P 25.0000MC0
SG-615P (CMOS, TTL compatible type) — RoHS Compliant							
1.54400	SER2217CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 1.5440MC0:ROHS
1.84320	SER2201CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 1.8432MC0:ROHS
2.00000	SER2202CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 2.0000MC0:ROHS
2.04800	SER2218CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 2.0480MC0:ROHS
2.45760	SER2203CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 2.4576MC0:ROHS
3.07200	SER2219CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 3.0720MC0:ROHS
3.68640	SER2204CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 3.6864MC0:ROHS
4.00000	SER2205CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 4.0000MC0:ROHS
5.00000	SER2224CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 5.0000MC0:ROHS
6.00000	SER2207CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 6.0000MC0:ROHS
6.14400	SER2226CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 6.1440MC0:ROHS
7.37280	SER2227CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 7.3728MC0:ROHS
8.19200	SER2228CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 8.1920MC0:ROHS
9.83000	SER2229CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 9.8300MC0:ROHS
10.00000	SER2209CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 10.0000MC0:ROHS
11.05920	SER2232CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 11.0592MC0:ROHS
12.00000	SER2210CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 12.0000MC0:ROHS
12.28800	SER2233CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 12.2880MC0:ROHS
14.31818	SER2211CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 14.31818MC0:ROHS
14.74560	SER3619CT-ND	3.50	3.00	2.50	250	416.67	SG-615P 14.7456MC3:ROHS
16.00000	SER2212CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 16.0000MC0:ROHS
18.43200	SER2213CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 18.4320MC0:ROHS
19.66080	SER2239CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 19.6608MC0:ROHS
20.00000	SER2214CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 20.0000MC0:ROHS
22.11840	SER2241CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 22.1184MC0:ROHS
24.00000	SER2215CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 24.0000MC0:ROHS
25.00000	SER2242CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615P 25.0000MC0:ROHS
SG-615PCG (CMOS compatible type)							
25.00000	SE3621CT-ND	3.50	3.00	2.50	250	463.43	SG-615PCG 25.0000MB3
SG-615PCG (CMOS compatible type) — RoHS Compliant							
25.00000	SER3621CT-ND	3.89	3.33	2.78	250	424.50	SG-615PCG 25.0000MB3:ROHS
SG-615PCV (CMOS compatible type)							
75.00000	SE3511CT-ND	5.85	4.88	3.40	1,000	2550.00	SG-615PCV 75.000MC0
106.25000	SE3515CT-ND	6.45	5.38	3.85	1,000	2900.00	SG-615PCV 106.250MC0
SG-615PH (CMOS compatible type)							
32.00000	SE2337CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615PH 32.0000MC0
33.00000	SE2339CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615PH 33.0000MC0
33.33300	SE2340CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615PH 33.3333MC0
36.00000	SE2341CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615PH 36.0000MC0
40.00000	SE2343CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615PH 40.0000MC0
44.90000	SE2344CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615PH 44.9000MC0
48.00000	SE2345CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615PH 48.0000MC0
50.00000	SE2346CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615PH 50.0000MC0
55.00000	SE2347CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615PH 55.0000MC0
66.66600	SE2352CT-ND	3.64	3.12	2.60	1,000	1850.00	SG-615PH 66.6660MC0
SG-615PH (CMOS compatible type) — RoHS Compliant							
32.00000	SER2337CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615PH 32.0000MC0:ROHS
33.00000	SER2339CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615PH 33.0000MC0:ROHS
40.00000	SER2343CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615PH 40.0000MC0:ROHS
48.00000	SER2345CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615PH 48.0000MC0:ROHS
50.00000	SER2346CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615PH 50.0000MC0:ROHS
55.00000	SER2347CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615PH 55.0000MC0:ROHS
SG-615PTJ (TTL compatible type)							
27.00000	SE2326CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615PTJ 27.0000MC0
30.00000	SE2330CT-ND	3.50	3.00	2.50	1,000	1670.00	SG-615PTJ 30.0000MC0
40.00000	SE3622CT-ND	3.50	3.00	2.50	250	417.50	SG-615PTJ 40.0000MC3
50.00000	SE3608CT-ND	3.50	3.00	2.50	250	417.50	SG-615PTJ 50.0000MC3
SG-615PTJ (TTL compatible type) — RoHS Compliant							
27.00000	SER2326CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615PTJ 27.0000MC0:ROHS
30.00000	SER2330CT-ND	3.50	3.00	2.50	1,000	1400.00	SG-615PTJ 30.0000MC0:ROHS
50.00000	SER3608CT-ND	3.50	3.00	2.50	250	382.50	SG-615PTJ 50.0000MC3:ROHS

† For Tape and Reel part number, change CT-ND to TR-ND ◆ ***RoHS Compliant***

EPSON TOYOCOM

SG636PCE Series Surface Mount Quartz Crystal Oscillators

Specifications:
- **Supply Voltage:** 3.3V ±.3V
- **Operating Temperature:** -20°C ~ 70°C
- **Storage Temperature:** -55°C ~ 100°C
- **Frequency Tolerance:** ±100ppm
- **Supply Current:** 9mA
- **Disable Current:** 5mA
- **Duty @ CMOS Level (VDD/2):** 45% ~ 55%
- **Fall Time CMOS:** 5ns Maximum
- **Rise Time CMOS:** 5ns Maximum
- **Start-up Time:** 4ms Maximum

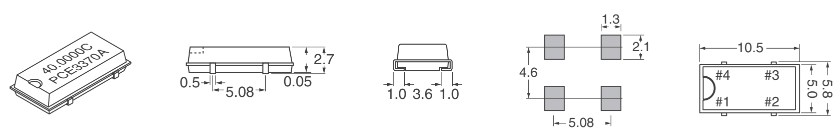

Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel Pricing† 1,000	Epson Part No.
2.4576	SE2801CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 2.4576MC0
3.6864	SE2806CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 3.6864MC0
4.0000	SE2807CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 4.0000MC0
5.0000	SE2810CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 5.0000MC0
6.0000	SE2812CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 6.0000MC0
8.0000	SE2815CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 8.0000MC0
8.1920	SE2816CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 8.1920MC0
10.0000	SE2818CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 10.0000MC0
10.2400	SE2819CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 10.2400MC0
12.0000	SE2822CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 12.0000MC0
14.7456	SE2825CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 14.7456MC0
15.0000	SE2826CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 15.0000MC0
16.0000	SE2827CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 16.0000MC0
18.4320	SE2830CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 18.4320MC0
20.0000	SE2833CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 20.0000MC0
24.0000	SE2836CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 24.0000MC0
25.0000	SE2837CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 25.0000MC0
25.1750	SE2838CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 25.1750MC0
27.0000	SE2839CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 27.0000MC0
29.4912	SE2842CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 29.4912MC0
30.0000	SE2843CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 30.0000MC0
32.0000	SE2844CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 32.0000MC0
33.0000	SE2847CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 33.0000MC0
33.3333	SE2848CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 33.3333MC0
36.0000	SE2849CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 36.0000MC0

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel Pricing† 1,000	Epson Part No.
38.0000	SE2850CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 38.0000MC0
40.0000	SE2851CT-ND	4.38	3.75	3.13	2080.00	SG-636PCE 40.0000MC0
RoHS Compliant						
2.4576	SER2801CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 2.4576MC0:ROHS
3.6864	SER2806CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 3.6864MC0:ROHS
4.0000	SER2807CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 4.0000MC0:ROHS
5.0000	SER2810CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 5.0000MC0:ROHS
6.0000	SER2812CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 6.0000MC0:ROHS
8.0000	SER2815CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 8.0000MC0:ROHS
8.1920	SER2816CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 8.1920MC0:ROHS
10.0000	SER2818CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 10.0000MC0:ROHS
12.0000	SER2822CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 12.0000MC0:ROHS
14.7456	SER2825CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 14.7456MC0:ROHS
16.0000	SER2827CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 16.0000MC0:ROHS
18.4320	SER2830CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 18.4320MC0:ROHS
20.0000	SER2833CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 20.0000MC0:ROHS
24.0000	SER2836CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 24.0000MC0:ROHS
25.0000	SER2837CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 25.0000MC0:ROHS
25.1750	SER2838CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 25.1750MC0:ROHS
27.0000	SER2839CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 27.0000MC0:ROHS
29.4912	SER2842CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 29.4912MC0:ROHS
30.0000	SER2843CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 30.0000MC0:ROHS
32.0000	SER2844CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 32.0000MC0:ROHS
33.0000	SER2847CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 33.0000MC0:ROHS
33.3333	SER2848CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 33.3333MC0:ROHS
36.0000	SER2849CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 36.0000MC0:ROHS
40.0000	SER2851CT-ND	4.38	3.75	3.13	1750.00	SG-636PCE 40.0000MC0:ROHS

† For Tape and Reel part number, change CT-ND to TR-ND.

SG636PCV Series Surface Mount Quartz Crystal Oscillators

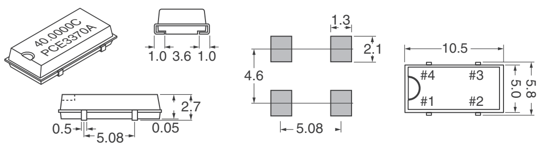

Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

Specifications:
• **Supply Voltage:** 3.3V ±.3V • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -55°C ~ 100°C • **Frequency Tolerance:** ±100ppm • **Supply Current:** 9mA • **Disable Current:** 5mA • **Duty @ CMOS Level (VDD/2):** 45% ~ 55% • **Fall Time CMOS:** 5ns Maximum • **Rise Time CMOS:** 5ns Maximum • **Start-up Time:** 4ms Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Epson Part No.
55.0000	SE2855CT-ND	6.15	5.13	3.60	SG-636PCV 55.000MC0

SG636PTF Series Surface Mount Quartz Crystal Oscillators

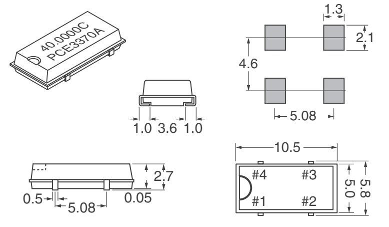

Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

Specifications:
• **Supply Voltage:** 5V ±.5V • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 100°C • **Frequency Tolerance:** ±100ppm • **Supply Current:** 17mA • **Disable Current:** 10mA • **Duty @ CMOS Level (VDD/2):** 40% ~ 60% • **Fall Time CMOS:** 7ns Maximum • **Rise Time CMOS:** 7ns Maximum • **Start-up Time:** 4ms Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 250	Epson Part No.
25.0000	SE3623CT-ND	3.50	3.00	2.50	SE3623TR-ND	417.50	SG-636PTF 25.0000MC3
40.0000	SE3624CT-ND	3.50	3.00	2.50	SE3624TR-ND	417.50	SG-636PTF 40.0000MC3
RoHS Compliant							
25.0000	SER3623CT-ND	3.50	3.00	2.50	SER3623TR-ND	382.50	SG-636PTF 25.0000MC3:ROHS
40.0000	SER3624CT-ND	3.50	3.00	2.50	SER3624TR-ND	382.50	SG-636PTF 40.0000MC3:ROHS

Voltage Controlled Crystal Oscillators (VCXO) VG-1011JA Series

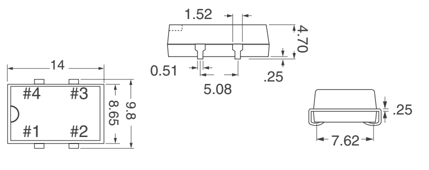

Pin Connection	
1	VC
2	GND
3	Out
4	Vdd

Features: • Reflowable and high density • SMD mounting • Using the heat-resisting type AT cut quartz crystal allows almost the same temperature soldering as universal SMD IC • Using C-MOS IC allows low current consumption and assures high reliability

Specifications: • **Frequency Adjustment Range:** ±75ppm • **Frequency Control Sensitivity:** 2.5, ±2.0V, ±10% • **Supply Voltage:** 5V ±.5V • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Frequency Tolerance:** ±20ppm • **Supply Current:** 13mA • **Output Voltage:** .4V (VOL) • **Output Current:** -0.8mA IOH; .8mA IOL • **Duty @ CMOS Level (VDD/2):** 40% ~ 60% • **Control Voltage:** 4.5V ~ 5.5V • **Fall Time:** 8ns • **Rise Time:** 8ns

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Epson Part No.
19.2000	SE3605CT-ND	15.96	13.68	11.40	VG-1011JA 19.2000MAVK0

EPSON TOYOCOM CMOS/TTL Oscillators

Specifications	SG-531P SG-51P	SG-531PTJ SG-51PTJ	SG-531PH SG-51PH
Supply Voltage	5.0V ± 0.5V		
Storage Temperature	-55°C ~ 125°C		
Operating Temperature	-20°C ~ 70°C		
Frequency Tolerance	±100ppm		
Current Consumption	23mA Max.	35mA Max.	
Output Disable Current	12mA Max.	28mA Max.	20mA Max.
Duty			
CMOS	40% ~ 60%	—	40% ~ 60%
TTL	40% ~ 60%	45% ~ 55%	—
Output Voltage			
VOH	Vcc -0.4V Min.	2.4V Min.	Vcc -0.4V Min.
VOL	0.4V Max.		
Output Enable / Disable Input Voltage			
VIH	2.0V Min.	3.5V Min.	2.0V Min.
VIL	0.8V Max.	1.5V Max.	0.8V Max.
Output Rise Time	8ns Max.	—	7ns Max.
Output Fall Time	8ns Max.	5ns Max.	—
Oscillation Start-up Time	4ms Max.	10ms Max.	

Features: • High reliability by cylinder type AT Crystal • Automatic mountable • Lower current consumption by C-MOS IC • TTL-10 output load by using C-MOS IC • DIP 14-pin plastic package compatible with metal package oscillator • DIP 8-pin plastic package compatible with half size metal package oscillator

Half Size

SG-531P, PH, PTJ Pin Connection	
1	OE
4	GND
5	Out
8	Vdd

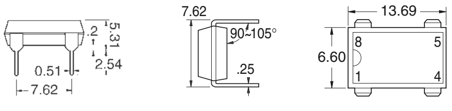

Full Size

SG-51P, PH, PTJ Pin Connection	
1	OE
7	GND
8	Out
14	Vdd

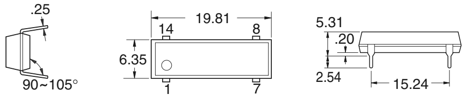

Series	Frequency (MHz)	Digi-Key Part No.	Price Each			Epson Part No.
			1	10	50	
Half Size						
SG-531P CMOS/TTL with Output Enable	1.544000	SE1216-ND	2.94	2.45	1.71	SG-531P 1.5440MC
	1.843200	SE1201-ND	2.94	2.45	1.71	SG-531P 1.8432MC
	2.000000	SE1217-ND	2.94	2.45	1.71	SG-531P 2.0000MC
	2.048000	SE1218-ND	2.94	2.45	1.71	SG-531P 2.0480MC
	2.457600	SE1202-ND	2.94	2.45	1.71	SG-531P 2.4576MC
	3.072000	SE1219-ND	2.94	2.45	1.71	SG-531P 3.0720MC
	3.088000	SE1220-ND	2.94	2.45	1.71	SG-531P 3.0880MC
	3.276800	SE1221-ND	2.94	2.45	1.71	SG-531P 3.2768MC
	3.579545	SE1222-ND	2.94	2.45	1.71	SG-531P 3.579545MC
	3.686000	SE1223-ND	2.94	2.45	1.71	SG-531P 3.6864MC
	4.000000	SE1203-ND	2.94	2.45	1.71	SG-531P 4.0000MC
	4.096000	SE1224-ND	2.94	2.45	1.71	SG-531P 4.0960MC
	4.915200	SE1204-ND	2.94	2.45	1.71	SG-531P 4.9152MC
	5.000000	SE1205-ND	2.94	2.45	1.71	SG-531P 5.0000MC
	5.068800	SE1225-ND	2.94	2.45	1.71	SG-531P 5.0688MC
	6.000000	SE1206-ND	2.94	2.45	1.71	SG-531P 6.0000MC
	6.144000	SE1226-ND	2.94	2.45	1.71	SG-531P 6.1440MC
	7.372800	SE1227-ND	2.94	2.45	1.71	SG-531P 7.3728MC
	8.000000	SE1207-ND	2.94	2.45	1.71	SG-531P 8.0000MC
	8.192000	SE1228-ND	2.94	2.45	1.71	SG-531P 8.1920MC
	9.830400	SE1229-ND	2.94	2.45	1.71	SG-531P 9.8304MC
	10.000000	SE1208-ND	2.94	2.45	1.71	SG-531P 10.0000MC
	10.240000	SE1230-ND	2.94	2.45	1.71	SG-531P 10.2400MC
	11.000000	SE1231-ND	2.94	2.45	1.71	SG-531P 11.0000MC
	11.059200	SE1232-ND	2.94	2.45	1.71	SG-531P 11.0592MC
	12.000000	SE1209-ND	2.94	2.45	1.71	SG-531P 12.0000MC
	12.288000	SE1233-ND	2.94	2.45	1.71	SG-531P 12.2880MC
	14.318180	SE1210-ND	2.94	2.45	1.71	SG-531P 14.31818MC
	14.745600	SE1234-ND	2.94	2.45	1.71	SG-531P 14.7456MC
	15.000000	SE1235-ND	2.94	2.45	1.71	SG-531P 15.0000MC
	16.257000	SE1236-ND	2.94	2.45	1.71	SG-531P 16.2570MC
	18.000000	SE1237-ND	2.94	2.45	1.71	SG-531P 18.0000MC
	18.432000	SE1238-ND	2.94	2.45	1.71	SG-531P 18.4320MC
	18.869600	SE1239-ND	2.94	2.45	1.71	SG-531P 18.8696MC
	19.660800	SE1240-ND	2.94	2.45	1.71	SG-531P 19.6608MC
	20.480000	SE1241-ND	2.94	2.45	1.71	SG-531P 20.4800MC
	22.118400	SE1242-ND	2.94	2.45	1.71	SG-531P 22.1184MC
	24.000000	SE1213-ND	2.94	2.45	1.71	SG-531P 24.0000MC
	25.175000	SE1215-ND	2.94	2.45	1.71	SG-531P 25.1750MC
	25.576000	SE1243-ND	2.94	2.45	1.71	SG-531P 25.5760MC
SG-531PH CMOS with Output Enable	32.000000	SE1111-ND	2.94	2.45	1.71	SG-531PH 32.0000MC
	32.514000	SE1112-ND	2.94	2.45	1.71	SG-531PH 32.5140MC
	32.768000	SE1113-ND	2.94	2.45	1.71	SG-531PH 32.7680MC
	33.000000	SE1114-ND	2.94	2.45	1.71	SG-531PH 33.0000MC
	33.333000	SE1115-ND	2.94	2.45	1.71	SG-531PH 33.3330MC
	36.000000	SE1116-ND	2.94	2.45	1.71	SG-531PH 36.0000MC
	38.000000	SE1117-ND	2.94	2.45	1.71	SG-531PH 38.0000MC
	42.000000	SE1119-ND	2.94	2.45	1.71	SG-531PH 42.0000MC
	44.900000	SE1120-ND	2.94	2.45	1.71	SG-531PH 44.9000MC
	48.000000	SE1122-ND	2.94	2.45	1.71	SG-531PH 48.0000MC
	64.000000	SE1126-ND	3.09	2.58	1.80	SG-531PH 64.0000MC
	65.000000	SE1127-ND	3.09	2.58	1.80	SG-531PH 65.0000MC
	66.000000	SE1128-ND	3.09	2.58	1.80	SG-531PH 66.0000MC
	66.666700	SE1129-ND	3.09	2.58	1.80	SG-531PH 66.6667MC
SG-531PTJ TTL with Output Enable	27.000000	SE1817-ND	2.94	2.45	1.71	SG-531PTJ 27.0000MC
	28.000000	SE1818-ND	2.94	2.45	1.71	SG-531PTJ 28.0000MC
	28.322000	SE1819-ND	2.94	2.45	1.71	SG-531PTJ 28.3220MC
	28.636360	SE1820-ND	2.94	2.45	1.71	SG-531PTJ 28.63636MC
	29.491000	SE1821-ND	2.94	2.45	1.71	SG-531PTJ 29.4910MC
	30.000000	SE1822-ND	2.94	2.45	1.71	SG-531PTJ 30.0000MC
	32.514000	SE1824-ND	2.94	2.45	1.71	SG-531PTJ 32.5140MC
	32.768000	SE1825-ND	2.94	2.45	1.71	SG-531PTJ 32.7680MC
	33.000000	SE1826-ND	2.94	2.45	1.71	SG-531PTJ 33.0000MC
	33.333300	SE1827-ND	2.94	2.45	1.71	SG-531PTJ 33.3333MC
	36.000000	SE1828-ND	2.94	2.45	1.71	SG-531PTJ 36.0000MC

Series	Frequency (MHz)	Digi-Key Part No.	Price Each			Epson Part No.
			1	10	50	
Full Size						
SG-51P CMOS/TTL with Output Enable	1.544000	SE1716-ND	2.94	2.45	1.71	SG-51P 1.5440MC
	1.843200	SE1701-ND	2.94	2.45	1.71	SG-51P 1.8432MC
	2.000000	SE1717-ND	2.94	2.45	1.71	SG-51P 2.0000MC
	2.048000	SE1718-ND	2.94	2.45	1.71	SG-51P 2.0480MC
	3.072000	SE1719-ND	2.94	2.45	1.71	SG-51P 3.0720MC
	3.088000	SE1720-ND	2.94	2.45	1.71	SG-51P 3.0880MC
	3.276800	SE1721-ND	2.94	2.45	1.71	SG-51P 3.2768MC
	3.579545	SE1722-ND	2.94	2.45	1.71	SG-51P 3.579545MC
	3.686400	SE1723-ND	2.94	2.45	1.71	SG-51P 3.6864MC
	4.000000	SE1703-ND	2.94	2.45	1.71	SG-51P 4.0000MC
	4.096000	SE1724-ND	2.94	2.45	1.71	SG-51P 4.0960MC
	4.915200	SE1704-ND	2.94	2.45	1.71	SG-51P 4.9152MC
	5.000000	SE1705-ND	2.94	2.45	1.71	SG-51P 5.0000MC
	5.068000	SE1725-ND	2.94	2.45	1.71	SG-51P 5.0680MC
	6.000000	SE1706-ND	2.94	2.45	1.71	SG-51P 6.0000MC
	6.144800	SE1726-ND	2.94	2.45	1.71	SG-51P 6.1448MC
	7.372800	SE1727-ND	2.94	2.45	1.71	SG-51P 7.3728MC
	8.000000	SE1707-ND	2.94	2.45	1.71	SG-51P 8.0000MC
	8.192000	SE1728-ND	2.94	2.45	1.71	SG-51P 8.1920MC
	9.830400	SE1729-ND	2.94	2.45	1.71	SG-51P 9.8304MC
	10.000000	SE1708-ND	2.94	2.45	1.71	SG-51P 10.0000MC
	10.240000	SE1730-ND	2.94	2.45	1.71	SG-51P 10.2400MC
	11.000000	SE1731-ND	2.94	2.45	1.71	SG-51P 11.0000MC
	11.059200	SE1732-ND	2.94	2.45	1.71	SG-51P 11.0592MC
	12.000000	SE1709-ND	2.94	2.45	1.71	SG-51P 12.0000MC
	12.288000	SE1733-ND	2.94	2.45	1.71	SG-51P 12.2880MC
	14.318180	SE1710-ND	2.94	2.45	1.71	SG-51P 14.318MC
	14.745600	SE1734-ND	2.94	2.45	1.71	SG-51P 14.7456MC
	15.000000	SE1735-ND	2.94	2.45	1.71	SG-51P 15.0000MC
	16.000000	SE1711-ND	2.94	2.45	1.71	SG-51P 16.0000MC
	16.257000	SE1736-ND	2.94	2.45	1.71	SG-51P 16.2570MC
	18.000000	SE1737-ND	2.94	2.45	1.71	SG-51P 18.0000MC
	18.432000	SE1738-ND	2.94	2.45	1.71	SG-51P 18.4320MC
	18.869000	SE1739-ND	2.94	2.45	1.71	SG-51P 18.8690MC
	19.660800	SE1740-ND	2.94	2.45	1.71	SG-51P 19.6608MC
	20.000000	SE1712-ND	2.94	2.45	1.71	SG-51P 20.0000MC
	20.480000	SE1741-ND	2.94	2.45	1.71	SG-51P 20.4800MC
	22.118000	SE1742-ND	2.94	2.45	1.71	SG-51P 22.1184MC
	24.000000	SE1713-ND	2.94	2.45	1.71	SG-51P 24.0000MC
	24.576000	SE1743-ND	2.94	2.45	1.71	SG-51P 24.5760MC
	25.000000	SE1714-ND	2.94	2.45	1.71	SG-51P 25.0000MC
	25.175000	SE1715-ND	2.94	2.45	1.71	SG-51P 25.1750MC
SG-51PH CMOS/TTL with Output Enable	32.768000	SE1902-ND	2.94	2.45	1.71	SG-51PH 32.7680MC
	33.000000	SE1903-ND	2.94	2.45	1.71	SG-51PH 33.0000MC
	33.333000	SE1904-ND	2.94	2.45	1.71	SG-51PH 33.3330MC
	36.000000	SE1905-ND	2.94	2.45	1.71	SG-51PH 36.0000MC
	38.000000	SE1906-ND	2.94	2.45	1.71	SG-51PH 38.0000MC
	42.000000	SE1908-ND	2.94	2.45	1.71	SG-51PH 42.0000MC
	44.900000	SE1909-ND	2.94	2.45	1.71	SG-51PH 44.9000MC
	46.000000	SE1910-ND	2.94	2.45	1.71	SG-51PH 46.0000MC
	48.000000	SE1911-ND	2.94	2.45	1.71	SG-51PH 48.0000MC
	50.000000	SE1912-ND	2.94	2.45	1.71	SG-51PH 50.0000MC
	55.000000	SE1913-ND	2.94	2.45	1.71	SG-51PH 55.0000MC
	60.000000	SE1914-ND	3.09	2.58	1.80	SG-51PH 60.0000MC
SG-51PTJ TTL with Output Enable	28.000000	SE1806-ND	2.94	2.45	1.71	SG-51PTJ 28.0000MC
	28.322000	SE1807-ND	2.94	2.45	1.71	SG-51PTJ 28.3220MC
	28.636360	SE1808-ND	2.94	2.45	1.71	SG-51PTJ 28.63636MC
	29.491200	SE1809-ND	2.94	2.45	1.71	SG-51PTJ 29.4912MC
	30.000000	SE1810-ND	2.94	2.45	1.71	SG-51PTJ 30.0000MC
	32.000000	SE1811-ND	2.94	2.45	1.71	SG-51PTJ 32.0000MC
	32.768000	SE1813-ND	2.94	2.45	1.71	SG-51PTJ 32.7680MC
	33.000000	SE1814-ND	2.94	2.45	1.71	SG-51PTJ 33.0000MC
	33.333300	SE1815-ND	2.94	2.45	1.71	SG-51PTJ 33.3333MC
	36.000000	SE1816-ND	2.94	2.45	1.71	SG-51PTJ 36.0000MC

(Continued)

EPSON TOYOCOM

CMOS/TTL Oscillators *(Cont.)*

Series	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
Half Size — RoHS Compliant						
SG-531P CMOS/TTL with Output Enable	1.544000	SER1216-ND	3.43	2.94	2.26	SG-531P 1.5440MC:ROHS
	1.843200	SER1201-ND	3.43	2.94	2.26	SG-531P 1.8432MC:ROHS
	2.457600	SER1202-ND	3.43	2.94	2.26	SG-531P 2.4576MC:ROHS
	3.276800	SER1221-ND	3.43	2.94	2.26	SG-531P 3.2768MC:ROHS
	3.579545	SER1222-ND	3.43	2.94	2.26	SG-531P 3.579545MC:ROHS
	3.686400	SER1223-ND	3.43	2.94	2.26	SG-531P 3.6864MC:ROHS
	4.000000	SER1203-ND	3.43	2.94	2.26	SG-531P 4.0000MC:ROHS
	4.096000	SER1224-ND	3.43	2.94	2.26	SG-531P 4.0960MC:ROHS
	4.915200	SER1204-ND	3.43	2.94	2.26	SG-531P 4.9152MC:ROHS
	7.372800	SER1227-ND	3.43	2.94	2.26	SG-531P 7.3728MC:ROHS
	8.000000	SER1207-ND	3.43	2.94	2.26	SG-531P 8.0000MC:ROHS
	8.192000	SER1228-ND	3.43	2.94	2.26	SG-531P 8.1920MC:ROHS
	10.000000	SER1208-ND	3.43	2.94	2.26	SG-531P 10.0000MC:ROHS
	11.059200	SER1232-ND	3.43	2.94	2.26	SG-531P 11.0592MC:ROHS
	12.288000	SER1233-ND	3.43	2.94	2.26	SG-531P 12.2880MC:ROHS
	14.745600	SER1234-ND	3.43	2.94	2.26	SG-531P 14.7456MC:ROHS
	18.432000	SER1238-ND	3.43	2.94	2.26	SG-531P 18.4320MC:ROHS
	19.660800	SER1240-ND	3.43	2.94	2.26	SG-531P 19.6608MC:ROHS
	22.118400	SER1242-ND	3.43	2.94	2.26	SG-531P 22.1184MC:ROHS
	24.000000	SER1213-ND	3.43	2.94	2.26	SG-531P 24.0000MC:ROHS
SG-531PH CMOS with Output Enable	32.000000	SER1111-ND	3.43	2.94	2.26	SG-531PH 32.0000MC:ROHS
	33.000000	SER1114-ND	3.43	2.94	2.26	SG-531PH 33.0000MC:ROHS
	48.000000	SER1122-ND	3.43	2.94	2.26	SG-531PH 48.0000MC:ROHS
	66.000000	SER1128-ND	3.61	3.09	2.37	SG-531PH 66.0000MC:ROHS
SG-531PTJ TTL with Output Enable	27.000000	SER1817-ND	3.43	2.94	2.26	SG-531PTJ 27.0000MC:ROHS
	28.636360	SER1820-ND	3.43	2.94	2.26	SG-531PTJ 28.63636MC:ROHS
	29.491000	SER1821-ND	3.43	2.94	2.26	SG-531PTJ 29.4910MC:ROHS
	33.000000	SER1826-ND	3.43	2.94	2.26	SG-531PTJ 33.0000MC:ROHS
Full Size — RoHS Compliant						
SG-51P CMOS/TTL with Output Enable	1.843200	SER1701-ND	3.43	2.94	2.26	SG-51P 1.8432MC:ROHS
	2.000000	SER1717-ND	3.43	2.94	2.26	SG-51P 2.0000MC:ROHS
	4.000000	SER1703-ND	3.43	2.94	2.26	SG-51P 4.0000MC:ROHS
	6.000000	SER1706-ND	3.43	2.94	2.26	SG-51P 6.0000MC:ROHS
	7.372800	SER1727-ND	3.43	2.94	2.26	SG-51P 7.3728MC:ROHS
	8.000000	SER1707-ND	3.43	2.94	2.26	SG-51P 8.0000MC:ROHS
	10.000000	SER1708-ND	3.43	2.94	2.26	SG-51P 10.0000MC:ROHS
	12.000000	SER1709-ND	3.43	2.94	2.26	SG-51P 12.0000MC:ROHS
	12.288000	SER1733-ND	3.43	2.94	2.26	SG-51P 12.2880MC:ROHS
	14.745600	SER1734-ND	3.43	2.94	2.26	SG-51P 14.7456MC:ROHS
	16.000000	SER1711-ND	3.43	2.94	2.26	SG-51P 16.0000MC:ROHS
	18.432000	SER1738-ND	3.43	2.94	2.26	SG-51P 18.4320MC:ROHS
	20.000000	SER1712-ND	3.43	2.94	2.26	SG-51P 20.0000MC:ROHS
	24.576000	SER1743-ND	3.43	2.94	2.26	SG-51P 24.5760MC:ROHS
SG-51PTJ TTL with Output Enable	32.000000	SER1811-ND	3.43	2.94	2.26	SG-51PTJ 32.0000MC:ROHS

A462-ND	Aries Electronics Inc., Full Size, 4-Pin Oscillator Sockets..........	**$.55/1**	**$11.60/25**	**$37.59/100**
A463-ND	Aries Electronics Inc., Half Size, 4-Pin Oscillator Sockets.........	**$.55/1**	**$11.60/25**	**$37.59/100**

Quartz Crystals - C-Type, Cylinder

Specifications:
• **Nominal Frequency**: 32.768kHz • **Operating Temperature**: -10°C ~ 60°C • **Drive Level**: 1.0µW Maximum • **Frequency Tolerance (Standard)**: ±20ppm • **Series Resistance:** C-001R = 35kΩ Maximum (18kΩ Typ.); C-002RX and C-004R = 50kΩ Maximum (30kΩ Typ.); and C-005R = 50kΩ Maximum (37kΩ Typ.)

Model	L1 Max.	L2 Min.	D1 Max.	D2	B
C-001R	8.0	9.0	ø3.1	ø0.3	1.1
C-002RX	6.0	4.0	ø2.0	ø0.2	0.7
C-004R	5.0	4.0	ø1.5	ø0.18	0.5
C-005R	4.6	4.0	ø1.2	ø0.15	0.3

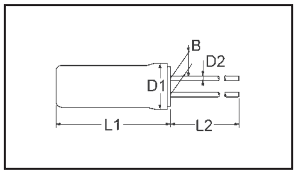

Load Cap. (pF)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
9	SE3204-ND	5.64	4.70	3.33	C-005R 32.7680K-AC
RoHS Compliant					
12.5	SER3201-ND	.32	.27	.21	C-001R 32.7680K-A:PBFREE
12.5	SER3202-ND	.32	.27	.21	C-002RX 32.7680K-A:PBFREE
6	SER3205-ND	.32	.27	.21	C-002RX 32.7680K-E:PBFREE
12.5	SER3203-ND	1.61	1.38	1.06	C-004R 32.7680K-A:PBFREE
9	SER3204-ND	6.58	5.64	4.33	C-005R 32.7680K-AC:PBFREE

Quartz Crystals - C-2-Type, Cylinder

Specifications:
- **Operating Temperature:** -10°C ~ 60°C
- **Drive Level:** 1.0µW Maximum
- **Crystal Load Capacitance/Tolerance:** All parts have 11pF load capacitance, ±100ppm except: C-2 32.560KH-AG, 7pF, ±190ppm; C-2 38.000KA-P 12.5pF, ±20ppm
- **Series Resistance Over 20kHz and Under 99kHz:** 35kΩ ~ 15kΩ
- **Series Resistance Over 100kHz and Under 200kHz:** 12kΩ ~ 8kΩ

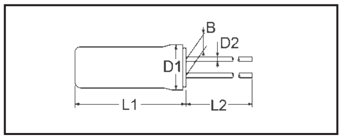

Model	L1 Max.	L2 Min.	D1 Max.	D2	B
C-2-Type	6.0	4.0	ø2.0	ø0.2	0.7

Frequency (kHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
20.0000	SE3301-ND	1.23	1.03	.73	C-2 20.0000K-P
25.6000	SE3302-ND	1.23	1.03	.73	C-2 25.6000K-P
26.6670	SE3303-ND	1.23	1.03	.73	C-2 26.6670K-P
31.2500	SE3308-ND	1.23	1.03	.73	C-2 31.2500K-P
31.5000	SE3309-ND	1.23	1.03	.73	C-2 31.5000K-P
32.5600	SE3311-ND	1.23	1.03	.73	C-2 32.5600KH-AG
32.9190	SE3312-ND	1.23	1.03	.73	C-2 32.9190KC-P
36.0000	SE3313-ND	1.23	1.03	.73	C-2 36.0000K-P
38.0000	SE3314-ND	1.35	1.13	.73	C-2 38.0000KA-P
38.4000	SE3315-ND	1.23	1.03	.73	C-2 38.4000K-P
46.6084	SE3317-ND	1.23	1.03	.73	C-2 46.6084KC-P
50.0000	SE3318-ND	1.23	1.03	.73	C-2 50.0000K-P
60.0020	SE3321-ND	1.23	1.03	.73	C-2 60.0020KC-P
75.0000	SE3323-ND	1.23	1.03	.73	C-2 75.0000K-P
76.8000	SE3324-ND	1.23	1.03	.73	C-2 76.8000K-P
83.0000	SE3330-ND	1.47	1.23	.87	C-2 83.0000K-P
111.0000	SE3334-ND	1.47	1.23	.87	C-2 111.0000K-P
120.8475	SE3336-ND	1.47	1.23	.87	C-2 120.8475K-P
149.4750	SE3338-ND	1.77	1.48	1.04	C-2 149.4750K-P
RoHS Compliant					
20.0000	SER3301-ND	1.44	1.23	.95	C-2 20.0000K-P:PBFREE
25.6000	SER3302-ND	1.44	1.23	.95	C-2 25.6000K-P:PBFREE
26.6670	SER3303-ND	1.44	1.23	.95	C-2 26.6670K-P:PBFREE
28.0000	SER3304-ND	1.44	1.23	.95	C-2 28.0000K-P:PBFREE
30.0000	SER3305-ND	1.44	1.23	.95	C-2 30.0000K-P:PBFREE
31.2500	SER3308-ND	1.44	1.23	.95	C-2 31.2500K-P:PBFREE
32.0000	SER3310-ND	1.44	1.23	.95	C-2 32.0000K-P:PBFREE
36.0000	SER3313-ND	1.44	1.23	.95	C-2 36.0000K-P:PBFREE
38.0000	SER3314-ND	1.58	1.35	1.04	C-2 38.0000KA-P:PBFREE
38.4000	SER3315-ND	1.44	1.23	.95	C-2 38.4000K-P:PBFREE
40.0000	SER3316-ND	1.44	1.23	.95	C-2 40.0000K-P:PBFREE
60.0000	SER3320-ND	1.44	1.23	.95	C-2 60.000K-P:PBFREE
65.5350	SER3322-ND	1.44	1.23	.95	C-2 65.5350K-P:PBFREE
75.0000	SER3323-ND	1.44	1.23	.95	C-2 75.0000K-P:PBFREE
76.8000	SER3324-ND	1.44	1.23	.95	C-2 76.8000K-P:PBFREE
83.0000	SER3330-ND	1.72	1.47	1.13	C-2 83.0000K-P:PBFREE
96.0000	SER3331-ND	1.72	1.47	1.13	C-2 96.0000K-P:PBFREE
100.0000	SER3333-ND	1.72	1.47	1.13	C-2 100-0000K-P:PBFREE
120.0000	SER3335-ND	1.72	1.47	1.13	C-2 120.0000K-P:PBFREE
131.0720	SER3337-ND	2.07	1.77	1.36	C-2 131.0720K-P:PBFREE
149.4750	SER3338-ND	2.07	1.77	1.36	C-2 149.4750K-P:PBFREE

Quartz Crystals - CA-301 Type, Cylinder

Specifications:
• **Operating Temperature:** -20°C ~ 70°C • **Drive Level:** 2mW Maximum • **Recommended Level:** 10µW ~ 100µW Typ. • **Frequency Tolerance (Standard):** ±30ppm • **Load Capacitance:** 18pF

Frequency MHz Over	Under	Series Resistance	Mode
4.0	5.5	150Ω Max.	Fundamental
5.5	6.0	100Ω Max.	
6.0	10.0	80Ω Max.	
10.0	12.0	60Ω Max.	
12.0	16.0	50Ω Max.	
16.0	30.0	40Ω Max.	
30.0	36.0	100Ω Max.	3rd Overtone
36.0	64.0	80Ω Max.	

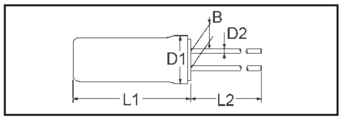

Model	L1 Max.	L2 Min.	D1 Max.	D2	B
Under 5.5MHz	9.3	9.5	ø3.1	ø0.3	1.1
Over 5.5MHz	8.9	9.5	ø3.1	ø0.3	1.1

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
4.194304	SE3405-ND	2.13	1.78	1.26	CA-301 4.194304M-C
4.433619	SE3406-ND	2.13	1.78	1.26	CA-301 4.433619M-C
5.500000	SE3408-ND	.96	.80	.56	CA-301 5.5000M-C
6.144000	SE3410-ND	.96	.80	.56	CA-301 6.1440M-C
6.757000	SE3411-ND	.96	.80	.56	CA-301 6.7570M-C

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EPSON TOYOCOM Quartz Crystals - CA-301 Type, Cylinder *(Cont.)*

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
7.200000	SE3412-ND	.96	.80	.56	CA-301 7.200M-C
7.372800	SE3413-ND	.96	.80	.56	CA-301 7.372M-C
8.432000	SE3416-ND	.96	.80	.56	CA-301 8.432M-C
10.624400	SE3422-ND	.96	.80	.56	CA-301 10.6244M-C
11.059200	SE3423-ND	.96	.80	.56	CA-301 11.0592M-C
12.000000	SE3424-ND	.96	.80	.56	CA-301 12.0000M-C
12.096000	SE3425-ND	.96	.80	.56	CA-301 12.0960M-C
13.500000	SE3427-ND	.96	.80	.56	CA-301 13.5000M-C
14.000000	SE3428-ND	.96	.80	.56	CA-301 14.0000M-C
14.500000	SE3430-ND	.96	.80	.56	CA-301 14.500M-C
14.745600	SE3431-ND	.96	.80	.56	CA-301 14.7456M-C
15.000000	SE3432-ND	.96	.80	.56	CA-301 15.000M-C
18.000000	SE3435-ND	.96	.80	.56	CA-301 18.0000M-C
18.432000	SE3436-ND	.96	.80	.56	CA-301 18.4320M-C
19.660800	SE3437-ND	.96	.80	.56	CA-301 19.6608M-C
20.000000	SE3438-ND	.96	.80	.56	CA-301 20.0000M-C
22.118400	SE3439-ND	.96	.80	.56	CA-301 22.1184M-C
24.000000	SE3440-ND	.96	.80	.56	CA-301 24.0000M-C
25.175000	SE3442-ND	.96	.80	.56	CA-301 25.1750M-C
27.000000	SE3443-ND	.96	.80	.56	CA-301 27.0000M-C:(FUND)
28.000000	SE3444-ND	.96	.80	.56	CA-301 28.0000M-C:(FUND)
28.322000	SE3445-ND	.96	.80	.56	CA-301 28.3220M-C:(FUND)
32.000000	SE3446-ND	.96	.80	.56	CA-301 32.0000M-C
32.768000	SE3447-ND	.96	.80	.56	CA-301 32.7680M-C
33.000000	SE3448-ND	.96	.80	.56	CA-301 33.0000M-C
33.333000	SE3449-ND	.96	.80	.56	CA-301 33.3330M-C
36.000000	SE3450-ND	.96	.80	.56	CA-301 36.0000M-C
40.000000	SE3451-ND	.96	.80	.56	CA-301 40.0000M-C
46.000000	SE3453-ND	.96	.80	.56	CA-301 46.0000M-C
49.860000	SE3454-ND	.96	.80	.56	CA-301 49.8600M-C
50.000000	SE3455-ND	.96	.80	.56	CA-301 50.0000M-C
55.000000	SE3456-ND	.96	.80	.56	CA-301 55.0000M-C
60.000000	SE3457-ND	1.11	.93	.64	CA-301 60.000M-C

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
		RoHS Compliant			
4.000000	SER3404-ND	2.49	2.13	1.64	CA-301 4.0000M-C:PBFREE
4.194304	SER3405-ND	2.49	2.13	1.64	CA-301 4.194304M-C:PBFREE
4.915200	SER3407-ND	2.49	2.13	1.64	CA-301 4.9152M-C:PBFREE
5.500000	SER3408-ND	1.12	.96	.74	CA-301 5.5000M-C:PBFREE
6.000000	SER3409-ND	1.12	.96	.74	CA-301 6.000M-C:PBFREE
6.144000	SER3410-ND	1.12	.96	.74	CA-301 6.1440M-C:PBFREE
7.200000	SER3412-ND	1.12	.96	.74	CA-301 7.200M-C:PBFREE
7.372800	SER3413-ND	1.12	.96	.74	CA-301 7.372M-C:PBFREE
8.000000	SER3414-ND	1.12	.96	.74	CA-301 8.000M-C:PBFREE
8.388608	SER3415-ND	1.12	.96	.74	CA-301 8.388M-C:PBFREE
8.432000	SER3416-ND	1.12	.96	.74	CA-301 8.432M-C:PBFREE
9.600000	SER3418-ND	1.12	.96	.74	CA-301 9.600M-C:PBFREE
9.830000	SER3419-ND	1.12	.96	.74	CA-301 9.830M-C:PBFREE
10.000000	SER3420-ND	1.12	.96	.74	CA-301 10.000M-C:PBFREE
10.240000	SER3421-ND	1.12	.96	.74	CA-301 10.2400M-C:PBFREE
11.059200	SER3423-ND	1.12	.96	.74	CA-301 11.0592M-C:PBFREE
12.000000	SER3424-ND	1.12	.96	.74	CA-301 12.0000M-C:PBFREE
12.288000	SER3426-ND	1.12	.96	.74	CA-301 12.2880M-C:PBFREE
14.318180	SER3429-ND	1.12	.96	.74	CA-301 14.31818M-C:PBFREE
14.745600	SER3431-ND	1.12	.96	.74	CA-301 14.7456M-C:PBFREE
16.000000	SER3433-ND	1.12	.96	.74	CA-301 16.0000M-C:PBFREE
18.000000	SER3435-ND	1.12	.96	.74	CA-301 18.0000M-C:PBFREE
18.432000	SER3436-ND	1.12	.96	.74	CA-301 18.4320M-C:PBFREE
19.660800	SER3437-ND	1.12	.96	.74	CA-301 19.6608M-C:PBFREE
20.000000	SER3438-ND	1.12	.96	.74	CA-301 20.0000M-C:PBFREE
22.118400	SER3439-ND	1.12	.96	.74	CA-301 22.1184M-C:PBFREE
24.000000	SER3440-ND	1.12	.96	.74	CA-301 24.0000M-C:PBFREE
25.000000	SER3441-ND	1.12	.96	.74	CA-301 25.0000M-C:PBFREE
27.000000	SER3443-ND	1.12	.96	.74	CA-301 27.0000M-C:(FUND):PBFREE
33.000000	SER3448-ND	1.12	.96	.74	CA-301 33.0000M-C:PBFREE
40.000000	SER3451-ND	1.12	.96	.74	CA-301 40.0000M-C:PBFREE

NEW! Chipset Crystals

Frequency (MHz)	Load Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 250	Epson Part No.	Compatible Chip Sets and Applications
16.0000	9.0	SER3628CT-ND	4.03	3.45	2.88	SER3628TR-ND	862.50	TSX-3225 16.0000MF09Z-AC3	CSR, Bluetooth®
16.0000	9.0	SER3636CT-ND	4.03	3.45	2.88	SER3636TR-ND	862.50	TSX-3225 16.0000MF18X-AC3	Freescale, ZigBee™
20.0000	9.0	SER3629CT-ND	4.03	3.45	2.88	SER3629TR-ND	862.50	TSX-3225 20.0000MF20G-AC3	CSR, Bluetooth®
24.0000	9.0	SER3634CT-ND	4.03	3.45	2.88	SER3634TR-ND	862.50	TSX-3225 24.0000MF20G-AC3	Freescale, ZigBee™
24.0000	9.0	SER3635CT-ND	4.03	3.45	2.88	SER3635TR-ND	862.50	TSX-3225 24.0000MF15X-AC3	Freescale, ZigBee™
26.0000	9.0	SER3627CT-ND	4.03	3.45	2.88	SER3627TR-ND	862.50	TSX-3225 26.0000MF09Z-AC3	CSR, Bluetooth®, GSM
38.4000	8.5	SER3625CT-ND	4.03	3.45	2.88	SER3625TR-ND	862.50	TSX-3225 38.4000MF10Z-AS3	Marvell, WLAN
40.0000	9.0	SER3626CT-ND	4.03	3.45	2.88	SER3626TR-ND	862.50	TSX-3225 40.0000MF10Z-AC3	Marvell, WLAN, WIMAX
16.0000	9.0	SER3630CT-ND	2.56	2.19	1.83	SER3630TR-ND	547.50	TSX-4025 16.0000MF09Z-AC3	CSR, Bluetooth®
26.0000	9.0	SER3633CT-ND	5.08	4.35	3.63	SER3633TR-ND	1087.50	FA-20H 26.0000ML81Z-AC3	CSR, Bluetooth®, GSM
38.4000	8.5	SER3631CT-ND	5.08	4.35	3.63	SER3631TR-ND	1087.50	FA-20H 38.4000MF10Z-AS3	Marvell, WLAN
40.0000	9.0	SER3632CT-ND	5.08	4.35	3.63	SER3632TR-ND	1087.50	FA-20H 40.0000MF15Z-AC3	Analog Devices, WLAN, WIMAX

MA-306 Series Crystal

Specifications: • **Storage Temperature:** -55°C ~ 100°C, stored as naked product after unpacking • **Operating Temperature:** -20°C ~ 70°C • **Maximum Drive Level:** 2mW • **Recommended Drive Level:** 10μW ~ 100μW • **Frequency Tolerance (standard):** ±50ppm • **Frequency Temperature Characteristics (standard):** ±30ppm, -20°C ~ 70°C, DL=100μW • **Load Capacitance:** 18pF • **Series Resistance:** 60Ω Maximum, -20°C ~ 70°C, DL=100μW • **Shunt Capacitance:** 5pF Maximum • **Aging:** ±5ppm/year Maximum

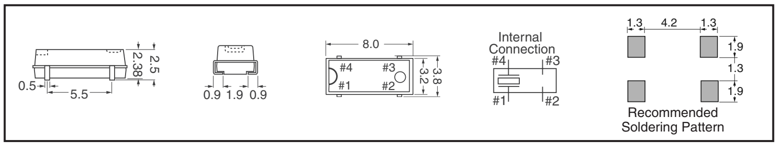

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 1,000	Epson Part No.
18.00000	SE2701CT-ND	2.14	1.83	1.53	SE2701TR-ND	1020.00	MA-306 18.0000M-C0
18.43200	SE2702CT-ND	2.14	1.83	1.53	SE2702TR-ND	1020.00	MA-306 18.4320M-C0
19.66080	SE2704CT-ND	2.14	1.83	1.53	SE2704TR-ND	1020.00	MA-306 19.6608M-C0
22.11840	SE2707CT-ND	2.14	1.83	1.53	SE2707TR-ND	1020.00	MA-306 22.1184M-C0
24.00000	SE2708CT-ND	2.14	1.83	1.53	SE2708TR-ND	1020.00	MA-306 24.0000M-C0
24.57600	SE2709CT-ND	2.14	1.83	1.53	SE2709TR-ND	1020.00	MA-306 24.5760M-C0
25.00000	SE2710CT-ND	2.14	1.83	1.53	SE2710TR-ND	1020.00	MA-306 25.0000M-C0
25.17500	SE2711CT-ND	2.14	1.83	1.53	SE2711TR-ND	1020.00	MA-306 25.1750M-C0
27.00000	SE2712CT-ND	2.14	1.83	1.53	SE2712TR-ND	1020.00	MA-306 27.0000M-C0
28.00000	SE2713CT-ND	2.14	1.83	1.53	SE2713TR-ND	1020.00	MA-306 28.0000M-C0
28.63636	SE2715CT-ND	2.14	1.83	1.53	SE2715TR-ND	1020.00	MA-306 28.63636M-C0
29.49120	SE2716CT-ND	2.14	1.83	1.53	SE2716TR-ND	1020.00	MA-306 29.4912M-C0
32.00000	SE2718CT-ND	2.14	1.83	1.53	SE2718TR-ND	1020.00	MA-306 32.0000M-C0
40.00000	SE2725CT-ND	2.14	1.83	1.53	SE2725TR-ND	1020.00	MA-306 40.0000M-C0
				RoHS Compliant			
18.00000	SER2701CT-ND	2.14	1.83	1.53	SER2701TR-ND	885.00	MA-306 18.0000M-C0:ROHS
18.43200	SER2702CT-ND	2.14	1.83	1.53	SER2702TR-ND	885.00	MA-306 18.4320M-C0:ROHS
19.66080	SER2704CT-ND	2.14	1.83	1.53	SER2704TR-ND	885.00	MA-306 19.6608M-C0:ROHS
20.00000	SER2705CT-ND	2.14	1.83	1.53	SER2705TR-ND	885.00	MA-306 20.0000M-C0:ROHS
22.11840	SER2707CT-ND	2.14	1.83	1.53	SER2707TR-ND	885.00	MA-306 22.1184M-C0:ROHS
24.00000	SER2708CT-ND	2.14	1.83	1.53	SER2708TR-ND	885.00	MA-306 24.0000M-C0:ROHS
24.57600	SER2709CT-ND	2.14	1.83	1.53	SER2709TR-ND	885.00	MA-306 24.5760M-C0:ROHS
25.00000	SER2710CT-ND	2.14	1.83	1.53	SER2710TR-ND	885.00	MA-306 25.0000M-C0:ROHS
25.17500	SER2711CT-ND	2.14	1.83	1.53	SER2711TR-ND	885.00	MA-306 25.1750M-C0:ROHS
27.00000	SER2712CT-ND	2.14	1.83	1.53	SER2712TR-ND	885.00	MA-306 27.0000M-C0:ROHS
28.00000	SER2713CT-ND	2.14	1.83	1.53	SER2713TR-ND	885.00	MA-306 28.0000M-C0:ROHS
29.49120	SER2716CT-ND	2.14	1.83	1.53	SER2716TR-ND	885.00	MA-306 29.4912M-C0:ROHS
32.00000	SER2718CT-ND	2.14	1.83	1.53	SER2718TR-ND	885.00	MA-306 32.0000M-C0:ROHS
40.00000	SER2725CT-ND	2.14	1.83	1.53	SER2725TR-ND	885.00	MA-306 40.0000M-C0:ROHS

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

EPSON TOYOCOM Surface Mount Quartz Crystal Products

Features: • Capable of withstanding reflow temperatures of 260°C for 20 seconds • Suitable for use in today's high density surface mount boards

Package	FC-135	FC-255	MA-505	MA-506	MC-146	MC-156	MC-306	MC-405	MC-406
Operating Temperature	-40°C ~ 85°C	-40°C ~ 85°C	-20°C ~ 70°C	-20°C ~ 70°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C
Maximum Drive Level	0.5μW	0.5μW	10μW ~ 100μW	10μW ~ 100μW	1.0μW	1.0μW	1.0μW	1.0μW	1.0μW
Frequency Tolerance	±20ppm @ 25°C	±20ppm @ 25°C	±50ppm @ 25°C	±50ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C
Load Capacitance	12.5pF	12.5pF	18pF	18pF	9pF	12.5pF	A=12.5pf; E=6pF	12.5pF	12.5pF
Series Resistance	70KΩ Max.	65KΩ Max.	—	—	65KΩ Max.	65KΩ Max.	50KΩ Max.	50KΩ Max.	50KΩ Max.
Shunt Capacitance	1.3pF Typ.	1.3pF Typ.	5pF Max.	5pF Max.	0.8pF	—	0.9pF Max.	0.85pF Typ.	0.85pF

Type	Dimensions (mm)			
	A	B	C	D
FC-135	1	1.7	1.8	—
FC-255	1.2	3.2	2.2	—
MA-505	4.09	7.01	5.61	—
MA-506	4.09	6.86	2.06	1.52
MC-146	1.2	5.1	0.6	0.3
MC-156	1.2	3.88	1.5	1
MC-306	1.3	4.2	1.9	1.3
MC-405	4.1	3.9	1.5	—
MC-406	4.1	3.9	1.5	0.8

Recommended Soldering Pattern

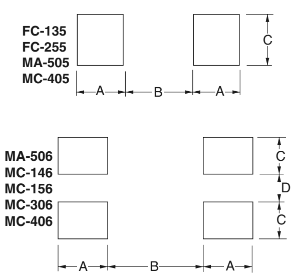

Fig. 1

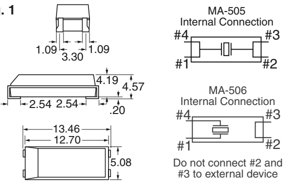

Fig. 2

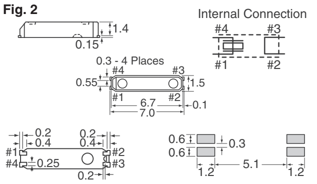

Fig. 3

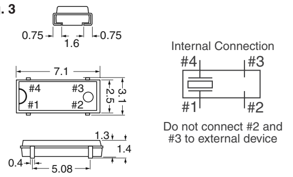

Fig. 4

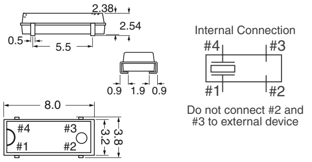

Fig. 5

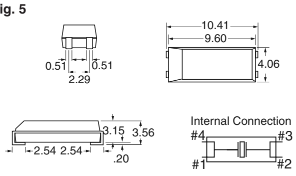

Fig. 6

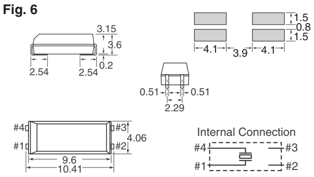

Fig. 7

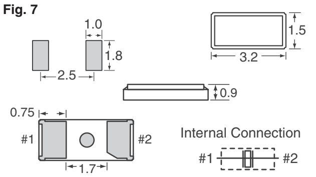

Fig. 8

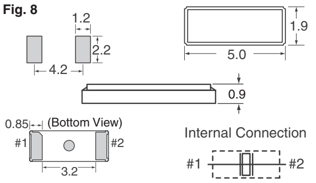

Fig.	Series	Frequency	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epson Part No.
1	MA-505	4.00000 MHz	SE2518CT-ND	2.80	2.40	2.00	SE2518TR-ND	1,000	1330.00	MA-505 4.0000M-C0
		4.09600 MHz	SE2519CT-ND	2.80	2.40	2.00	SE2519TR-ND	1,000	1330.00	MA-505 4.0960M-C0
		4.91520 MHz	SE2520CT-ND	2.80	2.40	2.00	SE2520TR-ND	1,000	1330.00	MA-505 4.9152M-C0
		6.00000 MHz	SE2501CT-ND	1.12	.96	.80	SE2501TR-ND	1,000	530.00	MA-505 6.0000M-C0
		7.37280 MHz	SE2503CT-ND	1.12	.96	.80	SE2503TR-ND	1,000	530.00	MA-505 7.3728M-C0
		8.00000 MHz	SE2504CT-ND	1.12	.96	.80	SE2504TR-ND	1,000	530.00	MA-505 8.0000M-C0
		9.83000 MHz	SE2524CT-ND	1.12	.96	.80	SE2524TR-ND	1,000	530.00	MA-505 9.8304M-C0
		10.00000 MHz	SE2505CT-ND	1.12	.96	.80	SE2505TR-ND	1,000	530.00	MA-505 10.0000M-C0
		10.24000 MHz	SE2525CT-ND	1.12	.96	.80	SE2525TR-ND	1,000	530.00	MA-505 10.2400M-C0
		11.05920 MHz	SE2506CT-ND	1.12	.96	.80	SE2506TR-ND	1,000	530.00	MA-505 11.0592M-C0
		12.00000 MHz	SE2507CT-ND	1.12	.96	.80	SE2507TR-ND	1,000	530.00	MA-505 12.0000M-C0
		14.31800 MHz	SE2528CT-ND	1.12	.96	.80	SE2528TR-ND	1,000	530.00	MA-505 14.3180M-C0
		14.74560 MHz	SE2529CT-ND	1.12	.96	.80	SE2529TR-ND	1,000	530.00	MA-505 14.7456M-C0
		16.00000 MHz	SE2508CT-ND	1.12	.96	.80	SE2508TR-ND	1,000	530.00	MA-505 16.0000M-C0
		18.43200 MHz	SE2533CT-ND	1.12	.96	.80	SE2533TR-ND	1,000	530.00	MA-505 18.4320M-C0
		19.66000 MHz	SE2535CT-ND	1.12	.96	.80	SE2535TR-ND	1,000	530.00	MA-505 19.6600M-C0
		20.00000 MHz	SE2509CT-ND	1.12	.96	.80	SE2509TR-ND	1,000	530.00	MA-505 20.0000M-C0
		24.00000 MHz	SE2510CT-ND	1.12	.96	.80	SE2510TR-ND	1,000	530.00	MA-505 24.0000M-C0
		24.57600 MHz	SE2538CT-ND	1.12	.96	.80	SE2538TR-ND	1,000	530.00	MA-505 24.5760M-C0
		25.00000 MHz	SE2539CT-ND	1.12	.96	.80	SE2539TR-ND	1,000	530.00	MA-505 25.0000M-C0
		29.49120 MHz	SE2543CT-ND	1.12	.96	.80	SE2543TR-ND	1,000	530.00	MA-505 29.4912M-C0:(30T)
		30.00000 MHz	SE2544CT-ND	1.12	.96	.80	SE2544TR-ND	1,000	530.00	MA-505 30.0000M-C0
		32.76800 MHz	SE2546CT-ND	1.12	.96	.80	SE2546TR-ND	1,000	530.00	MA-505 32.7680M-C0
		33.33330 MHz	SE2514CT-ND	1.12	.96	.80	SE2514TR-ND	1,000	530.00	MA-505 33.3330M-C0
		36.00000 MHz	SE2548CT-ND	1.12	.96	.80	SE2548TR-ND	1,000	530.00	MA-505 36.0000M-C0
		40.00000 MHz	SE2515CT-ND	1.12	.96	.80	SE2515TR-ND	1,000	530.00	MA-505 40.0000M-C0
	MA-506	4.00000 MHz	SE2618CT-ND	2.80	2.40	2.00	SE2618TR-ND	1,000	1330.00	MA-506 4.0000M-C0
		4.09600 MHz	SE2619CT-ND	2.80	2.40	2.00	SE2619TR-ND	1,000	1330.00	MA-506 4.0960M-C0
		4.91520 MHz	SE2620CT-ND	2.80	2.40	2.00	SE2620TR-ND	1,000	1330.00	MA-506 4.9152M-C0
		6.00000 MHz	SE2601CT-ND	1.12	.96	.80	SE2601TR-ND	1,000	530.00	MA-506 6.0000M-C0
		6.14400 MHz	SE2602CT-ND	1.12	.96	.80	SE2602TR-ND	1,000	530.00	MA-506 6.1440M-C0
		7.37280 MHz	SE2603CT-ND	1.12	.96	.80	SE2603TR-ND	1,000	530.00	MA-506 7.3728M-C0
		8.00000 MHz	SE2604CT-ND	1.12	.96	.80	SE2604TR-ND	1,000	530.00	MA-506 8.0000M-C0
		9.83000 MHz	SE2624CT-ND	1.12	.96	.80	SE2624TR-ND	1,000	530.00	MA-506 9.8300M-C0
		10.00000 MHz	SE2605CT-ND	1.12	.96	.80	SE2605TR-ND	1,000	530.00	MA-506 10.0000M-C0
		10.24000 MHz	SE2625CT-ND	1.12	.96	.80	SE2625TR-ND	1,000	530.00	MA-506 10.2400M-C0
		11.00000 MHz	SE2626CT-ND	1.12	.96	.80	SE2626TR-ND	1,000	530.00	MA-506 11.0000M-C0
		11.05920 MHz	SE2606CT-ND	1.12	.96	.80	SE2606TR-ND	1,000	530.00	MA-506 11.0592M-C0
		12.00000 MHz	SE2607CT-ND	1.12	.96	.80	SE2607TR-ND	1,000	530.00	MA-506 12.0000M-C0
		12.28800 MHz	SE2627CT-ND	1.12	.96	.80	SE2627TR-ND	1,000	530.00	MA-506 12.2880M-C0
		14.74560 MHz	SE2629CT-ND	1.12	.96	.80	SE2629TR-ND	1,000	530.00	MA-506 14.7456M-C0

(Continued)

EPSON TOYOCOM **Surface Mount Quartz Crystal Products** *(Cont.)*

Fig.	Series	Frequency	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epson Part No.
1	MA-506	15.00000 MHz	SE2630CT-ND	1.12	.96	.80	SE2630TR-ND	1,000	530.00	MA-506 15.0000M-C0
		16.00000 MHz	SE2608CT-ND	1.12	.96	.80	SE2608TR-ND	1,000	530.00	MA-506 16.0000M-C0
		16.25700 MHz	SE2631CT-ND	1.12	.96	.80	SE2631TR-ND	1,000	530.00	MA-506 16.2570M-C0
		18.00000 MHz	SE2632CT-ND	1.12	.96	.80	SE2632TR-ND	1,000	530.00	MA-506 18.0000M-C0
		18.43200 MHz	SE2633CT-ND	1.12	.96	.80	SE2633TR-ND	1,000	530.00	MA-506 18.4320M-C0
		19.66080 MHz	SE2635CT-ND	1.12	.96	.80	SE2635TR-ND	1,000	530.00	MA-506 19.6608M-C0
		20.00000 MHz	SE2609CT-ND	1.12	.96	.80	SE2609TR-ND	1,000	530.00	MA-506 20.0000M-C0
		20.48000 MHz	SE2636CT-ND	1.12	.96	.80	SE2636TR-ND	1,000	530.00	MA-506 20.4800M-C0
		22.11840 MHz	SE2637CT-ND	1.12	.96	.80	SE2637TR-ND	1,000	530.00	MA-506 22.1184M-C0
		24.00000 MHz	SE2610CT-ND	1.12	.96	.80	SE2610TR-ND	1,000	530.00	MA-506 24.0000M-C0
		24.57600 MHz	SE2638CT-ND	1.12	.96	.80	SE2638TR-ND	1,000	530.00	MA-506 24.5760M-C0
		25.00000 MHz	SE2639CT-ND	1.12	.96	.80	SE2639TR-ND	1,000	530.00	MA-506 25.0000M-C0
		27.00000 MHz	SE2641CT-ND	1.12	.96	.80	SE2641TR-ND	1,000	530.00	MA-506 27.0000M-C0:(FUND)
		28.63600 MHz	SE2642CT-ND	1.12	.96	.80	SE2642TR-ND	1,000	530.00	MA-506 28.6360M-C0:(30T)
		33.00000 MHz	SE2647CT-ND	1.12	.96	.80	SE2647TR-ND	1,000	530.00	MA-506 33.0000M-C0
		40.00000 MHz	SE2615CT-ND	1.12	.96	.80	SE2615TR-ND	1,000	530.00	MA-506 40.0000M-C0
		48.00000 MHz	SE2651CT-ND	1.12	.96	.80	SE2651TR-ND	1,000	530.00	MA-506 48.0000M-C0
		50.00000 MHz	SE2616CT-ND	1.12	.96	.80	SE2616TR-ND	1,000	530.00	MA-506 50.0000M-C0
		64.00000 MHz	SE2653CT-ND	1.23	1.05	.88	SE2653TR-ND	1,000	530.00	MA-506 64.0000M-C0
2	MC-146	32.76800 kHz	SE2416CT-ND	1.40	1.20	1.00	SE2416TR-ND	250	167.50	MC-146 32.768KA-AC3
3	MC-156	32.76800 kHz	SE2412CT-ND	1.30	1.11	.93	SE2412TR-ND	1,000	620.00	MC-156 32.7680KA-A0
4	MC-306	32.76800 kHz	SE2407CT-ND	.95	.81	.68	SE2407TR-ND	1,000	450.00	MC-306 32.7680K-A0
			SE2417CT-ND	.95	.81	.68	SE2417TR-ND	250	112.50	MC-306 32.768K-E3
5	MC-405	32.76800 kHz	SE2405CT-ND	.95	.81	.68	SE2405TR-ND	1,000	450.00	MC-405 32.7680K-A0
6	MC-406	32.76800 kHz	SE2418CT-ND	.95	.81	.68	SE2418TR-ND	250	112.50	MC-406 32.768K-A3
					RoHS Compliant					
7	FC-135	32.76800 kHz	SE2413CT-ND	2.98	2.55	2.13	SE2413TR-ND	250	355.00	FC-135 32.7680KA-A3
8	FC-255	32.76800 kHz	SE2415CT-ND	1.86	1.59	1.33	SE2415TR-ND	250	220.00	FC-255 32.7680K-A3
1	MA-505	4.00000 MHz	SER2518CT-ND	2.80	2.40	2.00	SER2518TR-ND	1,000	1140.00	MA-505 4.0000M-C0:ROHS
		4.09600 MHz	SER2519CT-ND	2.80	2.40	2.00	SER2519TR-ND	1,000	1140.00	MA-505 4.0960M-C0:ROHS
		4.91520 MHz	SER2520CT-ND	2.80	2.40	2.00	SER2520TR-ND	1,000	1140.00	MA-505 4.9152M-C0:ROHS
		6.00000 MHz	SER2501CT-ND	1.12	.96	.80	SER2501TR-ND	1,000	480.00	MA-505 6.0000M-C0:ROHS
		7.37280 MHz	SER2503CT-ND	1.12	.96	.80	SER2503TR-ND	1,000	480.00	MA-505 7.3728M-C0:ROHS
		8.00000 MHz	SER2504CT-ND	1.12	.96	.80	SER2504TR-ND	1,000	480.00	MA-505 8.0000M-C0:ROHS
		9.83040 MHz	SER2524CT-ND	1.12	.96	.80	SER2524TR-ND	1,000	480.00	MA-505 9.8304M-C0:ROHS
		10.00000 MHz	SER2505CT-ND	1.12	.96	.80	SER2505TR-ND	1,000	480.00	MA-505 10.0000M-C0:ROHS
		11.05920 MHz	SER2506CT-ND	1.12	.96	.80	SER2506TR-ND	1,000	480.00	MA-505 11.0592M-C0:ROHS
		12.00000 MHz	SER2507CT-ND	1.12	.96	.80	SER2507TR-ND	1,000	480.00	MA-505 12.0000M-C0:ROHS
		14.31800 MHz	SER2528CT-ND	1.12	.96	.80	SER2528TR-ND	1,000	480.00	MA-505 14.3180M-C0:ROHS
		14.74560 MHz	SER2529CT-ND	1.12	.96	.80	SER2529TR-ND	1,000	480.00	MA-505 14.7456M-C0:ROHS
		16.00000 MHz	SER2508CT-ND	1.12	.96	.80	SER2508TR-ND	1,000	480.00	MA-505 16.0000M-C0:ROHS
		18.43200 MHz	SER2533CT-ND	1.12	.96	.80	SER2533TR-ND	1,000	480.00	MA-505 18.4320M-C0:ROHS
		19.66000 MHz	SER2535CT-ND	1.12	.96	.80	SER2535TR-ND	1,000	480.00	MA-505 19.6600M-C0:ROHS
		20.00000 MHz	SER2509CT-ND	1.12	.96	.80	SER2509TR-ND	1,000	480.00	MA-505 20.0000M-C0:ROHS
		24.00000 MHz	SER2510CT-ND	1.12	.96	.80	SER2510TR-ND	1,000	480.00	MA-505 24.0000M-C0:ROHS
		24.57600 MHz	SER2538CT-ND	1.12	.96	.80	SER2538TR-ND	1,000	480.00	MA-505 24.5760M-C0:ROHS
		25.00000 MHz	SER2539CT-ND	1.12	.96	.80	SER2539TR-ND	1,000	480.00	MA-505 25.0000M-C0:ROHS
		29.49120 MHz	SER2543CT-ND	1.12	.96	.80	SER2543TR-ND	1,000	480.00	MA-505 29.4912M-C0:(30T):ROHS
		30.00000 MHz	SER2544CT-ND	1.12	.96	.80	SER2544TR-ND	1,000	480.00	MA-505 30.0000M-C0:ROHS
		40.00000 MHz	SER2515CT-ND	1.12	.96	.80	SER2515TR-ND	1,000	480.00	MA-505 40.0000M-C0:ROHS
	MA-506	4.00000 MHz	SER2618CT-ND	2.80	2.40	2.00	SER2618TR-ND	1,000	1140.00	MA-506 4.0000M-C0:ROHS
		4.09600 MHz	SER2619CT-ND	2.80	2.40	2.00	SER2619TR-ND	1,000	1140.00	MA-506 4.0960M-C0:ROHS
		4.91520 MHz	SER2620CT-ND	2.80	2.40	2.00	SER2620TR-ND	1,000	1140.00	MA-506 4.9152M-C0:ROHS
		6.00000 MHz	SER2601CT-ND	1.12	.96	.80	SER2601TR-ND	1,000	480.00	MA-506 6.0000M-C0:ROHS
		6.14400 MHz	SER2602CT-ND	1.12	.96	.80	SER2602TR-ND	1,000	480.00	MA-506 6.1440M-C0:ROHS
		7.37280 MHz	SER2603CT-ND	1.12	.96	.80	SER2603TR-ND	1,000	480.00	MA-506 7.3728M-C0:ROHS
		8.00000 MHz	SER2604CT-ND	1.12	.96	.80	SER2604TR-ND	1,000	480.00	MA-506 8.0000M-C0:ROHS
		9.83000 MHz	SER2624CT-ND	1.12	.96	.80	SER2624TR-ND	1,000	480.00	MA-506 9.8300M0C0:ROHS
		10.00000 MHz	SER2605CT-ND	1.12	.96	.80	SER2605TR-ND	1,000	480.00	MA-506 10.0000M-C0:ROHS
		11.05920 MHz	SER2606CT-ND	1.12	.96	.80	SER2606TR-ND	1,000	480.00	MA-506 11.0592M-C0:ROHS
		12.00000 MHz	SER2607CT-ND	1.12	.96	.80	SER2607TR-ND	1,000	480.00	MA-506 12.0000M-C0:ROHS
		12.28800 MHz	SER2627CT-ND	1.12	.96	.80	SER2627TR-ND	1,000	480.00	MA-506 12.2880M-C0:ROHS
		14.31818 MHz	SER2628CT-ND	1.12	.96	.80	SER2628TR-ND	1,000	480.00	MA-506 14.31818M-C0:ROHS
		14.74560 MHz	SER2629CT-ND	1.12	.96	.80	SER2629TR-ND	1,000	480.00	MA-506 14.7456M-C0:ROHS
		16.00000 MHz	SER2608CT-ND	1.12	.96	.80	SER2608TR-ND	1,000	480.00	MA-506 16.0000M-C0:ROHS
		18.00000 MHz	SER2632CT-ND	1.12	.96	.80	SER2632TR-ND	1,000	480.00	MA-506 18.0000M-C0:ROHS
		18.43200 MHz	SER2633CT-ND	1.12	.96	.80	SER2633TR-ND	1,000	480.00	MA-506 18.4320M-C0:ROHS
		20.00000 MHz	SER2609CT-ND	1.12	.96	.80	SER2609TR-ND	1,000	480.00	MA-506 20.0000M-C0:ROHS
		22.11840 MHz	SER2637CT-ND	1.12	.96	.80	SER2637TR-ND	1,000	480.00	MA-506 22.1184M-C0:ROHS
		24.00000 MHz	SER2610CT-ND	1.12	.96	.80	SER2610TR-ND	1,000	480.00	MA-506 24.0000M-C0:ROHS
		24.57600 MHz	SER2638CT-ND	1.12	.96	.80	SER2638TR-ND	1,000	480.00	MA-506 24.5760M-C0:ROHS
		25.00000 MHz	SER2639CT-ND	1.12	.96	.80	SER2639TR-ND	1,000	480.00	MA-506 25.0000M-C0:ROHS
		27.00000 MHz	SER2641CT-ND	1.12	.96	.80	SER2641TR-ND	1,000	480.00	MA-506 27.0000M-C0:(FUND):ROHS
		28.63600 MHz	SER2642CT-ND	1.12	.96	.80	SER2642TR-ND	1,000	480.00	MA-506 28.6360M-C0:(30T):ROHS
		32.76800 MHz	SER2646CT-ND	1.12	.96	.80	SER2646TR-ND	1,000	460.00	MA-506 32.7680M-C0:ROHS
		48.00000 MHz	SER2651CT-ND	1.12	.96	.80	SER2651TR-ND	1,000	480.00	MA-506 48.0000M-C0:ROHS
		64.00000 MHz	SER2653CT-ND	1.23	1.05	.88	SER2653TR-ND	1,000	525.00	MA-506 64.0000M-C0:ROHS
2	MC-146	32.76800 kHz	SER2416CT-ND	1.40	1.20	1.00	SER2416TR-ND	250	163.00	MC-146 32.768KA-AC3:ROHS
3	MC-156	32.76800 kHz	SER2412CT-ND	1.30	1.11	.93	SER2412TR-ND	1,000	537.00	MC-156 32.7680KA-A0:ROHS
4	MC-306	32.76800 kHz	SER2407CT-ND	.95	.81	.68	SER2407TR-ND	1,000	413.00	MC-306 32.7680K-A0:ROHS
		32.76800 kHz	SER2417CT-ND	.95	.81	.68	SER2417TR-ND	250	116.75	MC-306 32.768K-E3:ROHS
6	MC-406	32.76800 kHz	SER2405CT-ND	.95	.81	.68	SER2405TR-ND	1,000	413.00	MC-406 32.7680K-A0:ROHS
		32.76800 kHz	SER2418CT-ND	.95	.81	.68	SER2418TR-ND	250	116.75	MC-406 32.768K-A3:ROHS

CTS® 400 Series SMD Crystals

Digi-Reel® RoHS

Features:
- Lead (Pb) Free
- Stable frequency over temperature and drive level
- Ideal for application to high-density circuit boards with reliable precision and excellent shock performance in wireless telecommunications devices

Specifications:
- **Frequency Tolerance:** ±30ppm @ 25°C (403C11 only: ±10ppm)
- **Temperature Reflow Condition:** 255°C ±5°C @ 10 seconds Maximum
- **Frequency Stability:** ±50ppm (403C11 only: ±10ppm)
- **Operating Temperature:** -20°C ~ 70°C
- **Storage Temperature:** -55°C ~ 125°C
- **Drive Level:** 100μW Maximum; 25μW Typical (403 Series only: 100μW Maximum; 10μW Typical)

Fig. 1

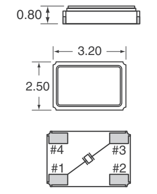

Top View

Fig. 2

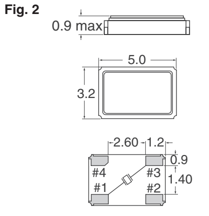

Top View

Fig. 3

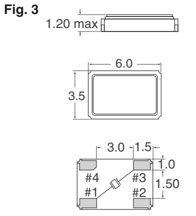

Top View

Fig. 4

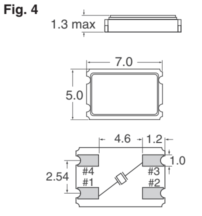

Top View

Frequency (MHz)	Operating Mode	Load Capacitance	Shunt Capacitance	ESR (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	CTS Part No.
Fig. 1 - 403 Series												
13.00000	Fundamental	20pF	5pF	90	CTX731CT-ND	2.10	1.68	1.40	CTX731TR-ND	3,000	812.00/M	403C35E13M00000
16.00000				90	CTX732CT-ND	5.14	4.11	3.43	CTX732TR-ND	3,000	1987.00/M	403C11E16M00000
26.00000				60	CTX733CT-ND	2.10	1.68	1.40	CTX733TR-ND	3,000	812.00/M	403C35E26M00000
27.00000				60	CTX734CT-ND	2.10	1.68	1.40	CTX734TR-ND	3,000	812.00/M	403C35E27M00000
32.00000				50	CTX735CT-ND	5.14	4.11	3.43	CTX735TR-ND	3,000	1987.00/M	403C11E32M00000
Fig. 2 - 405 Series												
11.05920	Fundamental	13.0pF	7pF	50	CTX638CT-ND	1.95	1.56	1.30	CTX638TR-ND	1,000	753.00	405C35B11M05920
12.00000					CTX639CT-ND	1.95	1.56	1.30	CTX639TR-ND	1,000	753.00	405C35B12M00000
12.80000					CTX640CT-ND	1.95	1.56	1.30	CTX640TR-ND	1,000	753.00	405C35B12M80000
13.00000					CTX641CT-ND	1.95	1.56	1.30	CTX641TR-ND	1,000	753.00	405C35B13M00000
14.31818					CTX642CT-ND	1.95	1.56	1.30	CTX642TR-ND	1,000	753.00	405C35B14M31818
14.40000					CTX643CT-ND	1.95	1.56	1.30	CTX643TR-ND	1,000	753.00	405C35B14M40000
14.74560					CTX644CT-ND	1.95	1.56	1.30	CTX644TR-ND	1,000	753.00	405C35B14M74560
15.36000					CTX645CT-ND	1.95	1.56	1.30	CTX645TR-ND	1,000	753.00	405C35B15M36000
16.00000					CTX646CT-ND	1.95	1.56	1.30	CTX646TR-ND	1,000	753.00	405C35B16M00000
16.36800					CTX647CT-ND	1.95	1.56	1.30	CTX647TR-ND	1,000	753.00	405C35B16M36800
19.20000					CTX648CT-ND	1.95	1.56	1.30	CTX648TR-ND	1,000	753.00	405C35B19M20000
19.68000					CTX649CT-ND	1.95	1.56	1.30	CTX649TR-ND	1,000	753.00	405C35B19M68000
20.00000					CTX650CT-ND	1.95	1.56	1.30	CTX650TR-ND	1,000	753.00	405C35B20M00000
24.00000					CTX651CT-ND	1.95	1.56	1.30	CTX651TR-ND	1,000	753.00	405C35B24M00000
25.00000					CTX652CT-ND	1.95	1.56	1.30	CTX652TR-ND	1,000	753.00	405C35B25M00000
26.00000					CTX653CT-ND	1.95	1.56	1.30	CTX653TR-ND	1,000	753.00	405C35B26M00000
32.00000					CTX654CT-ND	1.95	1.56	1.30	CTX654TR-ND	1,000	753.00	405C35B32M00000
33.00000					CTX655CT-ND	1.95	1.56	1.30	CTX655TR-ND	1,000	753.00	405C35B33M00000
40.00000					CTX656CT-ND	2.16	1.74	1.45	CTX656TR-ND	1,000	837.00	405C35B40M00000
44.00000					CTX657CT-ND	2.16	1.74	1.45	CTX657TR-ND	1,000	837.00	405C35B44M00000
Fig. 3 - 406 Series												
18.43200	Fundamental	13.0pF	4pF	40	CTX668CT-ND	2.16	1.74	1.45	CTX668TR-ND	1,000	837.00	406C35B18M43200
19.44000					CTX669CT-ND	2.16	1.74	1.45	CTX669TR-ND	1,000	837.00	406C35B19M44000
20.48000					CTX670CT-ND	2.16	1.74	1.45	CTX670TR-ND	1,000	837.00	406C35B20M48000
22.00000					CTX671CT-ND	2.16	1.74	1.45	CTX671TR-ND	1,000	837.00	406C35B22M00000
24.57600					CTX672CT-ND	2.16	1.74	1.45	CTX672TR-ND	1,000	837.00	406C35B24M57600
27.00000					CTX673CT-ND	2.16	1.74	1.45	CTX673TR-ND	1,000	837.00	406C35B27M00000
30.00000					CTX674CT-ND	2.16	1.74	1.45	CTX674TR-ND	1,000	837.00	406C35B30M00000
32.76800					CTX675CT-ND	2.16	1.74	1.45	CTX675TR-ND	1,000	837.00	406C35B32M76800
35.32800					CTX676CT-ND	2.16	1.74	1.45	CTX676TR-ND	1,000	837.00	406C35B35M32800
38.88000					CTX677CT-ND	2.16	1.74	1.45	CTX677TR-ND	1,000	837.00	406C35B38M88000
44.54500					CTX678CT-ND	2.16	1.74	1.45	CTX678TR-ND	1,000	837.00	406C35B44M54500
48.00000					CTX679CT-ND	2.16	1.74	1.45	CTX679TR-ND	1,000	837.00	406C35B48M00000
10.00000				60	CTX658CT-ND	2.16	1.74	1.45	CTX658TR-ND	1,000	837.00	406C35B10M00000
10.24500					CTX659CT-ND	2.16	1.74	1.45	CTX659TR-ND	1,000	837.00	406C35B10M24500
12.28800					CTX660CT-ND	2.16	1.74	1.45	CTX660TR-ND	1,000	837.00	406C35B12M28800
12.68800					CTX661CT-ND	2.16	1.74	1.45	CTX661TR-ND	1,000	837.00	406C35B12M68800
13.00000					CTX662CT-ND	2.16	1.74	1.45	CTX662TR-ND	1,000	837.00	406C35B13M00000
13.22500					CTX663CT-ND	2.16	1.74	1.45	CTX663TR-ND	1,000	837.00	406C35B13M22500
14.00000					CTX664CT-ND	2.16	1.74	1.45	CTX664TR-ND	1,000	837.00	406C35B14M00000
14.31818					CTX665CT-ND	2.16	1.74	1.45	CTX665TR-ND	1,000	837.00	406C35B14M31818
14.85000					CTX667CT-ND	2.16	1.74	1.45	CTX667TR-ND	1,000	837.00	406C35B14M85000
Fig. 4 - 407 Series												
16.38400	Fundamental	20.0pF	4pF	40	CTX682CT-ND	1.58	1.26	1.05	CTX682TR-ND	1,000	609.00	407F35E016M3840
16.67000					CTX683CT-ND	1.58	1.26	1.05	CTX683TR-ND	1,000	609.00	407F35E016M6700
22.11840					CTX684CT-ND	1.58	1.26	1.05	CTX684TR-ND	1,000	609.00	407F35E022M1184
29.49120					CTX685CT-ND	1.58	1.26	1.05	CTX685TR-ND	1,000	609.00	407F35E029M4912
36.00000					CTX686CT-ND	1.73	1.38	1.15	CTX686TR-ND	1,000	667.00	407F35E036M0000
44.73600					CTX687CT-ND	1.88	1.50	1.25	CTX687TR-ND	1,000	725.00	407F35E044M7360
9.60000				60	CTX680CT-ND	1.58	1.26	1.05	CTX680TR-ND	1,000	609.00	407F35E009M6000
12.50000					CTX681CT-ND	1.58	1.26	1.05	CTX681TR-ND	1,000	609.00	407F35E012M5000
50.00000	3rd Overtone	20.0pF	4pF	100	CTX688CT-ND	1.73	1.39	1.16	CTX688TR-ND	1,000	670.00	407T35E050M0000

ATS Series Crystals

RoHS

Specifications: • **Frequency Tolerance:** ±30ppm @ 25°C • **Shunt Capacitance:** 7pF Maximum • **Drive Level:** 100μW • **Frequency Stability:** ±50ppm • **Operating Temperature:** -20°C ~ 70°C • **Operating Mode:** Fundamental

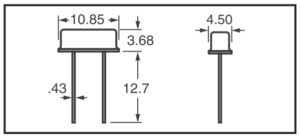

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
3.579545	18.0pF	CTX400-ND	.89	.78	.71	.49	ATS036
3.686400	20.0pF	CTX401-ND	.89	.78	.71	.49	ATS037
4.000000	20.0pF	CTX402-ND	.80	.70	.63	.45	ATS040
4.915200	20.0pF	CTX403-ND	.80	.70	.63	.45	ATS042
5.068800	20.0pF	CTX404-ND	.80	.70	.63	.45	ATS050
6.000000	20.0pF	CTX405-ND	.80	.70	.63	.45	ATS060
8.000000	20.0pF	CTX406-ND	.80	.70	.63	.45	ATS08A
9.830400	20.0pF	CTX407-ND	.80	.70	.63	.45	ATS098
10.000000	Series	CTX408-ND	.80	.70	.63	.45	ATS100
11.059200	20.0pF	CTX409-ND	.80	.70	.63	.45	ATS111

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
12.000000	Series	CTX410-ND	.80	.70	.63	.45	ATS120
12.288000	20.0pF	CTX411-ND	.80	.70	.63	.45	ATS122
14.318180	Series	CTX412-ND	.80	.70	.63	.45	ATS143
15.360000	20.0pF	CTX413-ND	.80	.70	.63	.45	ATS15A
16.000000	Series	CTX414-ND	.80	.70	.63	.45	ATS160
16.000000	20.0pF	CTX415-ND	.80	.70	.63	.45	ATS16A
20.000000	Series	CTX416-ND	.80	.70	.63	.45	ATS200
20.480000	20.0pF	CTX417-ND	.51	.45	.41	.28	ATS204
24.576000	Series	CTX418-ND	1.35	1.17	1.07	.74	ATS245
25.000000	Series	CTX419-ND	1.35	1.17	1.07	.74	ATS250

HC49INS-ND Base Insulator.. **$.90/10** **$7.50/100**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ATS-SM Series Crystals

Specifications:

- **Frequency Tolerance:** ±30ppm @ 25°C
- **Shunt Capacitance:** 7.0pF Maximum
- **Drive Level:** 100µW
- **Frequency Stability:** ±50ppm
- **Operating Temperature:** -20°C ~ 70°C
- **Operating Mode:** Fundamental

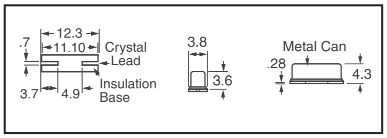

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Bulk Price Each 1	10	50	100	Digi-Key Part No.	T & R Pricing 1,000	CTS Part No.
3.579545	18.0pF	CTX500-ND◆	1.31	1.14	.99	.69	CTX500TR-ND◆	540.00	ATS036SM-T
3.686400	20.0pF	CTX501-ND◆	1.31	1.14	.99	.69	CTX501TR-ND◆	540.00	ATS037SM-T
4.000000	20.0pF	CTX502-ND◆	1.31	1.14	.99	.69	CTX502TR-ND◆	540.00	ATS040SM-T
4.915200	20.0pF	CTX503-ND◆	1.31	1.14	.99	.69	CTX503TR-ND◆	540.00	ATS042SM-T
5.068800	20.0pF	CTX504-ND◆	1.31	1.14	.99	.69	CTX504TR-ND◆	540.00	ATS050SM-T
6.000000	20.0pF	CTX505-ND◆	1.31	1.14	.99	.69	CTX505TR-ND◆	540.00	ATS060SM-T
8.000000	20.0pF	CTX506-ND◆	1.31	1.14	.99	.69	CTX506TR-ND◆	540.00	ATS08ASM-T
9.830400	20.0pF	CTX507-ND◆	1.31	1.14	.99	.69	CTX507TR-ND◆	540.00	ATS098SM-T
10.000000	Series	CTX508-ND◆	1.31	1.14	.99	.69	CTX508TR-ND◆	540.00	ATS100SM-T
11.059200	20.0pF	CTX509-ND◆	1.31	1.14	.99	.69	CTX509TR-ND◆	540.00	ATS111SM-T
12.000000	Series	CTX510-ND◆	1.31	1.14	.99	.69	CTX510TR-ND◆	540.00	ATS120SM-T
12.288000	20.0pF	CTX511-ND◆	1.31	1.14	.99	.69	CTX511TR-ND	540.00	ATS122SM-T
14.318180	Series	CTX512-ND◆	1.31	1.14	.99	.69	CTX512TR-ND◆	540.00	ATS143SM-T
15.360000	20.0pF	CTX513-ND◆	1.31	1.14	.99	.69	CTX513TR-ND◆	540.00	ATS15ASM-T
16.000000	Series	CTX514-ND◆	1.16	1.01	.88	.61	CTX514TR-ND◆	540.00	ATS160SM-T
20.000000	Series	CTX515-ND◆	1.16	1.01	.88	.61	CTX515TR-ND◆	540.00	ATS200SM-T
20.480000	20.0pF	CTX516-ND◆	1.35	1.17	1.03	.72	CTX516TR-ND◆	680.00	ATS204SM-T
24.576000	Series	CTX517-ND◆	1.35	1.17	1.03	.72	CTX517TR-ND◆	680.00	ATS245SM-T

◆ *RoHS Compliant*

Microprocessor Crystals

Specifications:

- **Frequency Tolerance:** ±30ppm @ 25°C
- **Temperature Stability:** ±0.005% (±50ppm)
- **Operating Temperature:** -20°C ~ 70°C
- Fully hermetic resistance weld package
- Low start-up resistance

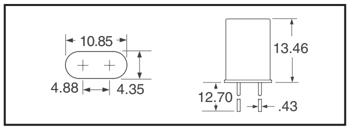

Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	CTS Part No.
1.843200	13.0pF	CTX067-ND	1.76	1.47	1.08	MP018S
2.000000	20.0pF	CTX068-ND	1.76	1.47	1.08	MP020S
2.457600	32.0pF	CTX069-ND	1.76	1.47	1.08	MP024S
3.579545	18.0pF	CTX049-ND	.72	.60	.44	MP036S
3.686400	20.0pF	CTX071-ND	.72	.60	.44	MP037
4.000000	Series	CTX080-ND	.72	.60	.44	MP04A
4.000000	20.0pF	CTX006-ND	.72	.60	.44	MP040
4.194304	12.0pF	CTX007-ND	.72	.60	.44	MP041
4.915200	20.0pF	CTX050-ND	.72	.60	.44	MP042
5.000000	Series	CTX081-ND	.72	.60	.44	MP05B
5.000000	20.0pF	CTX051-ND	.72	.60	.44	MP05A
5.068800	Series	CTX052-ND	.72	.60	.44	MP050
6.000000	20.0pF	CTX026-ND	.72	.60	.44	MP060
6.144000	20.0pF	CTX054-ND	.72	.60	.44	MP061
7.372800	Series	CTX074-ND	.72	.60	.44	MP073
8.000000	Series	CTX056-ND	.72	.60	.44	MP080
8.000000	20.0pF	CTX082-ND	.72	.60	.44	MP080A
9.830400	20.0pF	CTX084-ND	.72	.60	.44	MP098
10.000000	Series	CTX057-ND	.72	.60	.44	MP100
10.000000	30.0pF	CTX083-ND	.72	.60	.44	MP101
10.738635	32.0pF	CTX085-ND	.72	.60	.44	MP107
11.000000	18.0pF	CTX086-ND	.72	.60	.44	MP110
11.059200	Series	CTX078-ND	.72	.60	.44	MP111
12.000000	Series	CTX058-ND	.72	.60	.44	MP120
12.288000	32.0pF	CTX087-ND	.72	.60	.44	MP122
14.318180	Series	CTX088-ND	.72	.60	.44	MP143
14.745600	Series	CTX089-ND	.72	.60	.44	MP147
15.000000	Series	CTX059-ND	.72	.60	.44	MP150
16.000000	Series	CTX077-ND	.72	.60	.44	MP160
18.432000	Series	CTX061-ND	.72	.60	.44	MP184
19.660800	Series	CTX090-ND	.72	.60	.44	MP196
20.000000	Series	CTX062-ND	.72	.60	.44	MP200
22.118400	Series	CTX063-ND	.72	.60	.44	MP221
24.000000	Series	CTX091-ND	.72	.60	.44	MP240
24.576000	Series	CTX092-ND	.72	.60	.44	MP245
25.000000	Series	CTX093-ND	.72	.60	.44	MP250

HC49INS-ND Base Insulator.. **$.90/10** **$7.50/100**

632 HCMOS/TTL Clock Oscillators

Model 632 is a ceramic packaged clock oscillator offering reduced size and enhanced stability. The small size means it's perfect for any application. Enhanced stability means it's the perfect choice for today's communication applications that require tight frequency control.

Specifications: • **Frequency Stability:** ±50ppm • **Supply Voltage:** 3.3V • **Output Load:** 15pF • **Output Duty Cycle:** 45% ~ 55% • **Rise/Fall Time:** 10ns • **Start-up Time:** 10ms • **Enable Time:** 10ms • **Standby Current:** 10µA • **Operating Temperature:** -40°C ~ 85°C

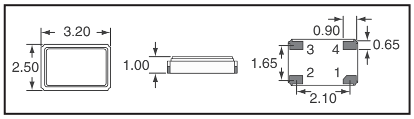

Pin	Symbol	Description
1	EOH	Enable Input
2	GND	Circuit and Package Ground
3	Output	RF Output
4	Vcc	Supply Voltage

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 3,000	CTS Part No.
10.000	CTX736CT-ND	7.35	5.88	4.90	2842.00/M	632L3I010M00000
20.000	CTX737CT-ND	7.35	5.88	4.90	2842.00/M	632L3I020M00000
25.000	CTX740CT-ND	7.35	5.88	4.90	2842.00/M	632L3I025M00000
40.000	CTX738CT-ND	7.35	5.88	4.90	2842.00/M	632L3I040M00000
48.000	CTX739CT-ND	7.35	5.88	4.90	2842.00/M	632L3I048M00000
50.000	CTX741CT-ND	7.35	5.88	4.90	2842.00/M	632L3I050M00000

* For Tape and Reel part number, change CT-ND to TR-ND.

636 Series SMD Clock Oscillators

Features: • HCMOS • Output enable standard • Standard 5x3.2mm surface mount footprint • Ceramic construction for long-term reliability **Specifications:** • **Enable Input Voltage:** 2V Minimum • **Disable Input Voltage:** 0.5V Maximum • **Phase Jitter (Bandwidth 12kHz-20MHz):** 1ps RMS Maximum • **Frequency Tolerance:** ±50ppm • **Supply Voltage:** 3.3V • **Supply Current:** 20mA Maximum • **Operating Temperature:** -20°C ~ 70°C • **Rise/Fall Time:** 14.31818MHz ~ 48MHz: 6ns Maximum; 75MHz ~ 125MHz: 3ns • **Output Load CMOS:** 15pF • **Duty Cycle:** 45% ~ 55% • **Start-up Time:** 10ms Maximum • **Stand-by Current:** 10µA Maximum

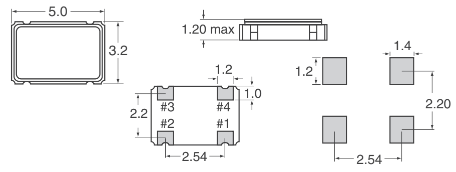

Pin Connection	
1	Enable
2	Circuit/Pkg. Gnd.
3	RF Output
4	Supply Voltage

Enable Truth Table	
Pin 1	Pin 3
"1"	Output
"0"	High Imp.
Open	Output

Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	CTS Part No.
14.31818	CTX689CT-ND	3.75	3.00	2.50	CTX689TR-ND	1450.00	636L3C014M31818
14.74560	CTX690CT-ND	3.92	3.14	2.61	CTX690TR-ND	1514.00	636L3C014M74560
16.00000	CTX691CT-ND	3.92	3.14	2.61	CTX691TR-ND	1514.00	636L3C016M00000
16.38400	CTX692CT-ND	3.92	3.14	2.61	CTX692TR-ND	1514.00	636L3C016M38400
18.43200	CTX693CT-ND	3.92	3.14	2.61	CTX693TR-ND	1514.00	636L3C018M43200
20.00000	CTX694CT-ND	3.92	3.14	2.61	CTX694TR-ND	1514.00	636L3C020M00000
20.48000	CTX695CT-ND	3.92	3.14	2.61	CTX695TR-ND	1514.00	636L3C020M48000
24.00000	CTX696CT-ND	3.92	3.14	2.61	CTX696TR-ND	1514.00	636L3C024M00000
25.00000	CTX697CT-ND	3.92	3.14	2.61	CTX697TR-ND	1514.00	636L3C025M00000
32.00000	CTX698CT-ND	3.75	3.00	2.50	CTX698TR-ND	1450.00	636L3C032M00000
32.76800	CTX699CT-ND	3.92	3.14	2.61	CTX699TR-ND	1514.00	636L3C032M76800
33.00000	CTX700CT-ND	3.92	3.14	2.61	CTX700TR-ND	1514.00	636L3C033M00000
44.00000	CTX701CT-ND	3.92	3.14	2.61	CTX701TR-ND	1514.00	636L3C044M00000
48.00000	CTX702CT-ND	3.92	3.14	2.61	CTX702TR-ND	1514.00	636L3C048M00000
75.00000	CTX703CT-ND	5.44	4.35	3.63	CTX703TR-ND	2417.00	636L3C075M00000
100.00000	CTX725CT-ND	15.08	12.06	10.05	CTX725TR-ND	5829.00	636L3C100M00000
125.00000	CTX726CT-ND	15.08	12.06	10.05	CTX726TR-ND	5829.00	636L3C125M00000

635 Series LVPECL SMD Clock Oscillators

Model 635 is a ceramic packaged clock oscillator offering reduced size and enhanced stability. The small size means it is perfect for any application. The enhanced stability means it is the perfect choice for today's communications applications that require tight frequency control.

Features: • Low phase jitter • Differential LVPECL Output **Specifications:** • **Enable Input Voltage:** 0.7VCC Minimum • **Disable Input Voltage:** 0.3VCC Maximum • **Phase Jitter (Bandwidth 12kHz~20MHz):** 1ps RMS • **Frequency Tolerance:** ±50ppm • **Supply Voltage:** 3.3Vdc • **Supply Current:** 100mA Maximum @ Maximum Load • **Operating Temperature:** -40°C ~ 85°C • **Rise/Fall Time:** <100MHz 1.0ns Maximum; >100MHz 0.6ns Maximum • **Output Duty Cycle:** 45% ~ 55% • **Start-up Time:** 5ms Maximum

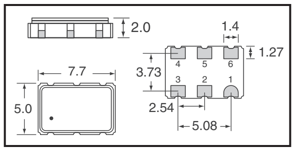

Pin	Symbol	Description
1	EOH or N.C.	Enable (std) or optional No Connect
2	EOH or N.C.	No Connect (std) or optional Enable
3	GND	Circuit and Package Ground
4	Output	RF Output
5	Output	Complimentary RF Output
6	Vcc	Supply Voltage

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing* 1,000	CTS Part No.
77.76	CTX727CT-ND	15.56	12.45	10.38	6018.00	635P3I3077M7600
100.00	CTX728CT-ND	25.38	20.31	16.93	9815.00	635P3I3100M0000
125.00	CTX729CT-ND	31.73	25.39	21.16	12270.00	635P3I3125M0000
155.52	CTX730CT-ND	30.00	24.00	20.00	11600.00	635P3I3155M5200

* For Tape and Reel part number, change CT-ND to TR-ND.

CTS Surface Mount Clock Oscillators

Features:
• Standard miniature surface mount footprint • PCMCIA Type II and III compatible • HCMOS/TTL compatible • 16mm Tape and Reel • Ceramic construction for long-term reliability • Seam welded and shielded with Kovar cover

Specifications:
• **Frequency Stability:** 3C and 3I: ±50 ppm; 5I: ±25 ppm • **Supply Voltage:** CB3: 4.5V ~ 5.5V; CB3LV: 3.0V ~ 3.6V • **Supply Current Maximum:** 1.5MHz ~ 20.00MHz: CB3: 25mA; CB3LV: 12mA; 20.1MHz ~ 80MHz: CB3: 50mA; CB3LV: 40mA; 80.1MHz ~ 160MHz: CB3: 100mA; CB3LV: 60mA • **Operating Temperature:** 3C: -20°C ~ 70°C; 3I and 5I: -40°C ~ 85°C • **Rise and Fall Time Maximum:** 1.5MHz ~ 20.00MHz: CB3: 10ns; CB3LV: 8ns; 20.1MHz ~ 80MHz: CB3: 8ns; CB3LV: 4ns; 80.1MHz ~ 160MHz: CB3: 5ns; CB3LV: 3ns • **Output Load:** 1.5MHz ~ 50.0MHz: 50pf; 50.1MHz ~ 80.0MHz: 30pf; 80.1MHz ~ 160MHz: 15pF • **Enable Input Voltage:** 2V Minimum • **Disable Input Voltage:** 0.8V Maximum

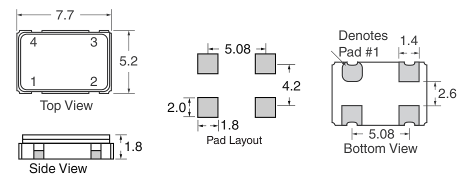

Pin Connection	
1	Output Enable
2	Cover/CKT GND
3	Out
4	Vcc

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R Pricing* 1,000	CTS Part No.
CB3 Surface Mount Clock Oscillators						
1.54400	CTX290CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-1M5440
1.84320	CTX291CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-1M8432
3.68640	CTX260CT-ND	3.75	3.46	1.99	1050.00	CB3-3C-3M6864
4.00000	CTX261CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-4M0000
6.17600	CTX262CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-6M1760
7.37280	CTX263CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-7M3728
8.00000	CTX264CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-8M0000
10.00000	CTX265CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-10M0000
12.00000	CTX292CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-12M0000
12.28800	CTX266CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-12M2880
12.35200	CTX267CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-12M3520
14.31818	CTX268CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-14M31818
15.36000	CTX269CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-15M3600
16.00000	CTX270CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-16M0000
16.00000	CTX304CT-ND	4.14	3.82	2.19	1159.00	CB3-3I-16M0000
16.38400	CTX271CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-16M3840
18.43200	CTX293CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-18M4320
18.43200	CTX300CT-ND	4.14	3.82	2.19	1159.00	CB3-3I-18M4320
19.44000	CTX272CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-19M4400
20.00000	CTX273CT-ND	3.75	3.46	1.99	1050.00	CB3-3C-20M0000
20.00000	CTX306CT-ND	4.33	3.99	2.29	1211.00	CB3-3I-20M0000
20.48000	CTX274CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-20M4800
24.00000	CTX294CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-24M0000
24.70400	CTX275CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-24M7040
25.00000	CTX276CT-ND	3.75	3.46	1.99	1050.00	CB3-3C-25M0000
29.49120	CTX295CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-29M4912
30.00000	CTX296CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-30M0000
32.00000	CTX277CT-ND	3.75	3.46	1.99	1050.00	CB3-3C-32M0000
32.76800	CTX278CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-32M7680
33.33300	CTX279CT-ND	3.75	3.46	1.99	1050.00	CB3-3C-33M3330
40.00000	CTX280CT-ND	3.75	3.46	1.99	1050.00	CB3-3C-40M0000
40.00000	CTX314CT-ND	4.14	3.82	2.19	1159.00	CB3-3I-40M0000
44.73600	CTX281CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-44M7360
45.00000	CTX297CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-45M0000
49.15200	CTX282CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-49M1520
50.00000	CTX283CT-ND	3.75	3.46	1.99	1050.00	CB3-3C-50M0000
51.84000	CTX284CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-51M8400
60.00000	CTX285CT-ND	4.14	3.82	2.19	1159.00	CB3-3C-60M0000
64.00000	CTX286CT-ND	4.19	3.87	2.22	1174.00	CB3-3C-64M0000
66.66660	CTX287CT-ND	4.19	3.87	2.22	1174.00	CB3-3C-66M6666
72.00000	CTX288CT-ND	4.19	3.87	2.22	1174.00	CB3-3C-72M0000
80.00000	CTX289CT-ND	4.45	4.10	2.35	1244.00	CB3-3C-80M0000
CB3LV Surface Mount Clock Oscillators						
1.54400	CTX290LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-1M5440
1.84320	CTX291LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-1M8432
3.68640	CTX260LVCT-ND	3.75	3.46	1.99	1050.00	CB3LV-3C-3M6864
4.00000	CTX261LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-4M0000
6.17600	CTX262LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-6M1760
7.37280	CTX263LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-7M3728
7.37280	CTX325LVCT-ND	4.14	3.82	2.19	1221.00	CB3LV-3I-7M3728
8.00000	CTX264LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-8M0000
8.00000	CTX301LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3I-8M0000
8.19200	CTX302LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3I-8M1920
10.00000	CTX265LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-10M0000
10.00000	CTX707LVCT-ND	4.14	3.75	2.18	1221.00	CB3LV-3I-10M0000
12.00000	CTX292LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-12M0000
12.00000	CTX303LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3I-12M0000
12.28800	CTX266LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-12M2880
12.35200	CTX267LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-12M3520
14.31818	CTX268LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-14M31818
15.36000	CTX269LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-15M3600
16.00000	CTX270LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-16M0000
16.38400	CTX271LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-16M3840
16.38400	CTX708LVCT-ND	4.14	3.75	2.18	1221.00	CB3LV-3I-16M3840
16.38400	CTX321LVCT-ND	5.46	5.03	2.89	1527.00	CB3LV-5I-16M3840
18.43200	CTX293LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-18M4320
18.43200	CTX305LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3I-18M4320
19.44000	CTX272LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-19M4400
19.44000	CTX709LVCT-ND	4.14	3.75	2.18	1221.00	CB3LV-3I-19M4400
20.00000	CTX273LVCT-ND	3.75	3.46	1.99	1050.00	CB3LV-3C-20M0000
20.00000	CTX306LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3I-20M0000
20.00000	CTX322LVCT-ND	5.46	5.03	2.89	1527.00	CB3LV-5I-20M0000
20.48000	CTX274LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-20M4800
24.00000	CTX294LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-24M0000
24.00000	CTX307LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3I-24M0000
24.57600	CTX326LVCT-ND	4.14	3.82	2.19	1221.00	CB3LV-3I-24M5760
24.70400	CTX275LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-24M7040
25.00000	CTX276LVCT-ND	3.75	3.46	1.99	1050.00	CB3LV-3C-25M0000
25.00000	CTX308LVCT-ND	4.33	3.99	2.29	1211.00	CB3LV-3I-25M0000
25.00000	CTX323LVCT-ND	5.70	5.25	3.02	1595.00	CB3LV-5I-25M0000
27.00000	CTX710LVCT-ND	4.14	3.75	2.18	1221.00	CB3LV-3I-27M0000
27.00000	CTX324LVCT-ND	5.70	5.25	3.02	1595.00	CB3LV-5I-27M0000
29.49120	CTX295LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-29M4912
30.00000	CTX296LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-30M0000
30.00000	CTX309LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3I-30M0000
32.00000	CTX277LVCT-ND	3.75	3.46	1.99	1050.00	CB3LV-3C-32M0000
32.00000	CTX310LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3I-32M0000
32.76800	CTX278LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-32M7680
32.76800	CTX311LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3I-32M7680
33.00000	CTX312LVCT-ND	4.33	3.99	2.29	1211.00	CB3LV-3I-33M0000
33.33300	CTX279LVCT-ND	3.75	3.46	1.99	1050.00	CB3LV-3C-33M3330
33.33330	CTX313LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3I-33M3333
40.00000	CTX280LVCT-ND	3.75	3.46	1.99	1050.00	CB3LV-3C-40M0000
40.00000	CTX314LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3I-40M0000
44.73600	CTX281LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-44M7360
44.73600	CTX711LVCT-ND	4.14	3.75	2.18	1221.00	CB3LV-3I-44M7360
45.00000	CTX297LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-45M0000
48.00000	CTX315LVCT-ND	4.33	3.99	2.29	1211.00	CB3LV-3I-48M0000
49.15200	CTX282LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-49M1520
50.00000	CTX283LVCT-ND	3.75	3.46	1.99	1050.00	CB3LV-3C-50M0000
50.00000	CTX327LVCT-ND	4.33	3.99	2.29	1275.00	CB3LV-3I-50M0000
51.84000	CTX284LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-51M8400
60.00000	CTX285LVCT-ND	4.14	3.82	2.19	1159.00	CB3LV-3C-60M0000
60.00000	CTX712LVCT-ND	4.14	3.75	2.18	1221.00	CB3LV-3I-60M0000
64.00000	CTX286LVCT-ND	4.19	3.87	2.22	1174.00	CB3LV-3C-64M0000
64.00000	CTX328LVCT-ND	4.19	3.87	2.22	1236.00	CB3LV-3I-64M0000
65.53600	CTX713LVCT-ND	4.38	3.97	2.31	1291.00	CB3LV-3I-65M5360
66.00000	CTX316LVCT-ND	4.38	4.04	2.32	1226.00	CB3LV-3I-66M0000
66.66660	CTX287LVCT-ND	4.19	3.87	2.22	1174.00	CB3LV-3C-66M6666
72.00000	CTX288LVCT-ND	4.19	3.87	2.22	1174.00	CB3LV-3C-72M0000
74.25000	CTX714LVCT-ND	4.19	3.80	2.21	1236.00	CB3LV-3I-74M2500
74.75280	CTX715LVCT-ND	4.19	3.80	2.21	1236.00	CB3LV-3I-74M7528
75.00000	CTX716LVCT-ND	4.38	3.97	2.31	1291.00	CB3LV-3I-75M0000
77.76000	CTX717LVCT-ND	4.45	4.03	2.34	1310.00	CB3LV-3I-77M7600
80.00000	CTX289LVCT-ND	4.45	4.10	2.35	1244.00	CB3LV-3C-80M0000
80.00000	CTX317LVCT-ND	4.45	4.10	2.35	1244.00	CB3LV-3I-80M0000
100.00000	CTX318LVCT-ND	5.91	5.45	3.13	1654.00	CB3LV-3I-100M0000
106.25000	CTX718LVCT-ND	8.79	7.96	4.63	2590.00	CB3LV-3I-106M2500
125.00000	CTX319LVCT-ND	8.29	7.64	4.38	2320.00	CB3LV-3I-125M0000
133.33000	CTX320LVCT-ND	10.61	9.78	5.61	2970.00	CB3LV-3I-133M3300
150.00000	CTX719LVCT-ND	28.31	25.63	14.90	8344.00	CB3LV-3I-150M0000
156.25000	CTX720LVCT-ND	28.31	25.63	14.90	8344.00	CB3LV-3I-156M2500

* For Tape and Reel part number, change CT-ND to TR-ND.

CTS® *NEW!* MXO45 Clock Oscillators

RoHS COMPLIANT

Specifications:
• **Frequency Stability:** ±50ppm • **Operating Temperature Range:** -20°C ~ 70°C • **Supply Voltage:** 5.0V • **Supply Current:** 1.0 ~ 20MHz: 10 ~ 25mA; 20.1 ~ 80MHz: 30 ~ 50mA • **Output Load CMOS:** 1 ~ 50MHz: 50pF; 50.1 ~ 80MHz: 30pF • **Output Load TTL:** 1 ~ 80MHz: 10TTL • **Output Current:** V_{OH}=3.9V: -16mA; V_{OL}=0.4V: 16mA • **Output Duty Cycle:** 45 ~ 55% • **Rise and Fall Time:** 1.0 ~ 50MHz: 8 ~ 10ns; 50.1 ~ 80MHz: 4 ~ 8ns • **Start Up Time:** 10ms • **Enable Input (V_{IH}):** 2V Min.; **(V_{IL}):** 0.8V Max. • **Enable Time:** 100ns • **Phase Jitter:** 1ps

Standard Output:
Features: • CMOS/TTL compatible • Fully hermetically-sealed package • Standard 14-Pin or 8-Pin DIP footprint • Drives up to 10 standard TTL Loads

Tri-State Output:
Tri-State Logic uses the two standard logic levels of high (logic 1) and low (logic 0) but has added a third state that is not a logic level but an open circuit condition that effectively disconnects the output from your circuit with a high impedance (floating) state, thereby enabling the use of numerous oscillators on the same bus line. Also, by using the enable pin to control the output, the crystal is still running even when the output is disabled (stand-by mode), thus eliminating any start-up time for the oscillator.
CTS HCMOS/TTL products utilize an Application Specific Integrated Circuit (ASIC) design strategy. Employing a single design family supporting both HCMOS/TTL applications helps in reducing costs and lead times. Utilizing ASIC technology reduces the number of components inside the XO (crystal oscillator), thus increasing reliability and further reducing cost.
Features: • CMOS/TTL compatible • Drives up to 10 standard TTL loads • Fully hermetic resistance weld package

Full Size

Pin Connection	
1	Enable Input
7	Circuit and Package Ground
8	RF Output
14	Supply Voltage

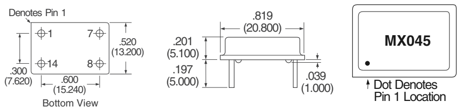

Half Size

Pin Connection	
1	Enable Input
4	Circuit and Package Ground
5	RF Output
8	Supply Voltage

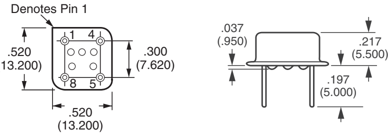

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	250	500	CTS Part No.
Full Size — Standard Output							
1.0000	CTX775-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-1M0000
1.8432	CTX776-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-1M8432
2.0000	CTX770-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-2M0000
3.6864	CTX781-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-3M6864
4.0000	CTX774-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-4M0000
4.9152	CTX783-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-4M9152
5.0000	CTX769-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-5M0000
6.0000	CTX771-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-6M0000
6.1440	CTX786-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-6M1440
7.3728	CTX788-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-7M3728
8.0000	CTX768-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-8M0000
10.0000	CTX772-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-10M0000
12.0000	CTX766-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-12M0000
16.0000	CTX767-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-16M0000
18.4320	CTX777-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-18M4320
20.0000	CTX778-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-20M0000
24.0000	CTX773-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-24M0000
25.0000	CTX779-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-25M0000
28.3220	CTX780-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-28M3220
32.0000	CTX782-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-32M0000
40.0000	CTX784-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-40M0000
50.0000	CTX785-ND	2.78	2.47	1.87	1.66	1.42	MXO45-3C-50M0000
64.0000	CTX787-ND	3.64	3.22	2.45	2.18	1.86	MXO45-3C-64M0000
Half Size — Standard Output							
1.0000	CTX745-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-1M0000
1.8432	CTX744-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-1M8432
2.0000	CTX755-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-2M0000
3.6864	CTX762-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-3M6864
4.0000	CTX742-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-4M0000
4.9152	CTX763-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-4M9152
5.0000	CTX746-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-5M0000
6.0000	CTX747-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-6M0000
6.1440	CTX764-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-6M1440
7.3728	CTX765-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-7M3728
8.0000	CTX743-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-8M0000
10.0000	CTX753-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-10M0000
14.31818	CTX752-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-14M31818
16.0000	CTX750-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-16M0000
18.4320	CTX754-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-18M4320
19.6608	CTX760-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-19M6608
20.0000	CTX756-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-20M0000
24.0000	CTX757-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-24M0000
25.0000	CTX758-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-25M0000
25.1750	CTX761-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-25M1750
32.0000	CTX749-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-32M0000
40.0000	CTX748-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-40M0000
50.0000	CTX759-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3C-50M0000
80.0000	CTX751-ND	5.85	5.18	3.94	3.50	2.99	MXO45HS-3C-80M0000
Half Size — Tri-State Output							
1.0000	CTX793-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-1M0000
1.8432	CTX794-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-1M8432
3.6864	CTX798-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-3M6864
5.0000	CTX800-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-5M0000
6.0000	CTX792-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-6M0000
8.0000	CTX803-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-8M0000
10.0000	CTX789-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-10M0000
16.0000	CTX795-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-16M0000
18.4320	CTX796-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-18M4320
20.0000	CTX791-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-20M0000
25.0000	CTX797-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-25M0000
32.0000	CTX799-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-32M0000
40.0000	CTX790-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-40M0000
50.0000	CTX801-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3C-50M0000
66.66666	CTX802-ND	3.64	3.22	2.45	2.18	1.86	MXO45HST-3C-66M66666

A462-ND	Aries Electronics Inc. Full Size 4-Pin Oscillator Sockets	**$.55/1**	**$11.60/25**	**$37.59/100**
A463-ND	Aries Electronics Inc. Half Size 4-Pin Oscillator Sockets	**$.55/1**	**$11.60/25**	**$37.59/100**

357L Series Surface Mount VCXO

Digi-Reel® RoHS COMPLIANT

Specifications:
• **Output Voltage Level**: Logic “1” Minimum 0.9V; Logic “0” Maximum 0.1V • **Output Transition Rise and Fall Time:** 5.0ns • **Output Duty Cycle (SYM)**: 45% Minimum, 55% Maximum @ 50% level • **Phase Jitter (Bandwidth 12kHz-20MHz):** 1ps RMS Maximum • **Linearity:** 10% • **Input Impedance:** 50kΩ Minimum • **Modulation Roll-Off:** 10kHz @ -3dB • **Operating Temperature:** -40°C ~ 85°C

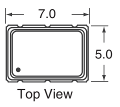

Top View

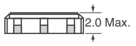

Side View

Enable Truth Table	
Pin 2	**Pin 4**
“1”	Output
“0”	High Imp.
Open	Output

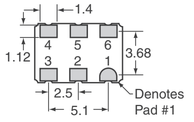

Bottom View

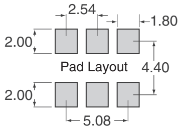

Pin Connection	
1	Control Voltage
2	Tri-State Enable
3	Circuit/Package Ground
4	RF Output
5	Not Connected Internally
6	Supply Voltage

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 1,000	CTS Part No.
1.544	CTX630CT-ND	6.86	5.49	4.58	2654.00	357LB3I001M5440
2.048	CTX721CT-ND	4.69	3.75	3.13	1813.00	357LB3I002M0480
4.096	CTX626CT-ND	6.86	5.49	4.58	2654.00	357LB3I004M0960
6.176	CTX631CT-ND	6.86	5.49	4.58	2654.00	357LB3I006M1760
16.384	CTX632CT-ND	6.86	5.49	4.58	2654.00	357LB3I016M3840
19.440	CTX627CT-ND	6.86	5.49	4.58	2654.00	357LB3I019M4400
20.000	CTX633CT-ND	6.86	5.49	4.58	2654.00	357LB3I020M0000
27.000	CTX634CT-ND	6.86	5.49	4.58	2654.00	357LB3I027M0000
32.768	CTX635CT-ND	6.86	5.49	4.58	2654.00	357LB3I032M7680
35.328	CTX628CT-ND	6.86	5.49	4.58	2654.00	357LB3I035M3280
38.880	CTX636CT-ND	6.86	5.49	4.58	2654.00	357LB3I038M8800
40.000	CTX637CT-ND	7.24	5.79	4.83	2799.00	357LB3I040M0000
44.736	CTX629CT-ND	7.24	5.79	4.83	2799.00	357LB3I044M7360
61.440	CTX722CT-ND	18.94	15.15	12.63	7323.00	357LB3I061M4400
65.360	CTX723CT-ND	18.94	15.15	12.63	7323.00	357LB3I065M3600
77.760	CTX724CT-ND	29.51	23.61	19.68	11412.00	357LB3I077M7600

* For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CONNOR
WINFIELD

CWX Series HCMOS SMD Oscillators

Enable/Disable Function	Output
Pin 1 Open	Pin 3 Active
Pin 1 ≥ 2.2V	Pin 3 Active
Pin 1 ≤ 2.2V	Pin 3 High Impedance

Pad	Connection
1	Enable/Disable
2	Ground
3	Output
4	Vcc

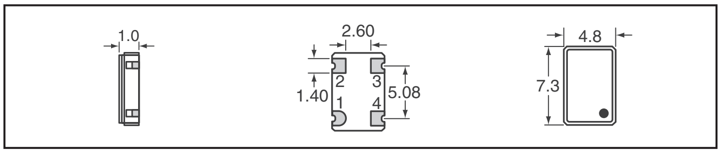

CWX813 and CWX823

Specifications: • **Duty Cycle at 50% of Vcc:** 40% ~ 60% • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Output Current:** -8mA IOH • **Output Current:** 8mA IOL • **Load Capacitance:** 15.0pF • **Output Enable Voltage:** 2.97V (VOH) • **Output Enable Voltage:** .33V (VOL) • **Supply Voltage:** 3.30V • **Start-up Time:** 10ms

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Connor-Winfield Part No.
				±25ppm			
1.5440	CW510CT-ND	2.81	2.34	1.88	CW510TR-ND	1404.00	CWX813-1.544M
1.8432	CW511CT-ND	2.81	2.34	1.88	CW511TR-ND	1404.00	CWX813-1.8432M
3.6864	CW512CT-ND	2.81	2.34	1.88	CW512TR-ND	1404.00	CWX813-3.6864M
4.0000	CW513CT-ND	2.81	2.34	1.88	CW513TR-ND	1404.00	CWX813-4.0M
7.3728	CW514CT-ND	2.81	2.34	1.88	CW514TR-ND	1404.00	CWX813-7.3728M
8.0000	CW515CT-ND	2.81	2.34	1.88	CW515TR-ND	1404.00	CWX813-8.0M
10.0000	CW516CT-ND	2.81	2.34	1.88	CW516TR-ND	1404.00	CWX813-10.0M
12.0000	CW517CT-ND	2.81	2.34	1.88	CW517TR-ND	1404.00	CWX813-12.0M
12.2880	CW518CT-ND	2.81	2.34	1.88	CW518TR-ND	1404.00	CWX813-12.288M
14.3182	CW519CT-ND	2.81	2.34	1.88	CW519TR-ND	1404.00	CWX813-14.31818M
15.3600	CW520CT-ND	2.81	2.34	1.88	CW520TR-ND	1404.00	CWX813-15.36M
16.0000	CW521CT-ND	2.81	2.34	1.88	CW521TR-ND	1404.00	CWX813-16.0M
16.3840	CW522CT-ND	2.81	2.34	1.88	CW522TR-ND	1404.00	CWX813-16.384M
18.4320	CW523CT-ND	2.81	2.34	1.88	CW523TR-ND	1404.00	CWX813-18.432M
19.4400	CW524CT-ND	2.81	2.34	1.88	CW524TR-ND	1404.00	CWX813-19.44M
20.0000	CW525CT-ND	2.81	2.34	1.88	CW525TR-ND	1404.00	CWX813-20.0M
20.4800	CW526CT-ND	2.81	2.34	1.88	CW526TR-ND	1404.00	CWX813-20.48M
24.0000	CW527CT-ND	2.81	2.34	1.88	CW527TR-ND	1404.00	CWX813-24.0M
24.5760	CW528CT-ND	2.81	2.34	1.88	CW528TR-ND	1404.00	CWX813-24.576M
25.0000	CW529CT-ND	2.81	2.34	1.88	CW529TR-ND	1404.00	CWX813-25.0M
27.0000	CW530CT-ND	2.81	2.34	1.88	CW530TR-ND	1404.00	CWX813-27.0M
29.4912	CW531CT-ND	2.81	2.34	1.88	CW531TR-ND	1404.00	CWX813-29.4912M
30.0000	CW532CT-ND	2.81	2.34	1.88	CW532TR-ND	1404.00	CWX813-30.0M
32.0000	CW533CT-ND	2.81	2.34	1.88	CW533TR-ND	1404.00	CWX813-32.0M
32.7680	CW534CT-ND	2.81	2.34	1.88	CW534TR-ND	1404.00	CWX813-32.768M
33.0000	CW535CT-ND	2.81	2.34	1.88	CW535TR-ND	1404.00	CWX813-33.0M
33.3330	CW536CT-ND	2.81	2.34	1.88	CW536TR-ND	1404.00	CWX813-33.333M
40.0000	CW537CT-ND	2.81	2.34	1.88	CW537TR-ND	1404.00	CWX813-40.0M
44.7360	CW538CT-ND	2.81	2.34	1.88	CW538TR-ND	1404.00	CWX813-44.736M
45.0000	CW539CT-ND	2.81	2.34	1.88	CW539TR-ND	1404.00	CWX813-45.0M
49.1520	CW540CT-ND	2.81	2.34	1.88	CW540TR-ND	1404.00	CWX813-49.152M
50.0000	CW541CT-ND	2.81	2.34	1.88	CW541TR-ND	1404.00	CWX813-50.0M
60.0000	CW542CT-ND	2.81	2.34	1.88	CW542TR-ND	1404.00	CWX813-60.0M
64.0000	CW543CT-ND	3.21	2.68	2.15	CW543TR-ND	1606.50	CWX813-64.0M
66.6666	CW544CT-ND	3.21	2.68	2.15	CW544TR-ND	1606.50	CWX813-66.6666M
72.0000	CW545CT-ND	3.21	2.68	2.15	CW545TR-ND	1606.50	CWX813-72.0M
80.0000	CW546CT-ND	3.21	2.68	2.15	CW546TR-ND	1606.50	CWX813-80.0M
100.0000	CW547CT-ND	3.92	3.27	2.61	CW547TR-ND	1957.50	CWX813-100.0M
				±50ppm			
1.5440	CW431CT-ND	2.13	1.78	1.43	CW431TR-ND	1066.50	CWX823-1.544M
1.8432	CW432CT-ND	2.13	1.78	1.43	CW432TR-ND	1066.50	CWX823-1.8432M
3.6864	CW433CT-ND	2.13	1.78	1.43	CW433TR-ND	1066.50	CWX823-3.6864M
4.0000	CW434CT-ND	2.13	1.78	1.43	CW434TR-ND	1066.50	CWX823-4.0M
7.3728	CW435CT-ND	2.13	1.78	1.43	CW435TR-ND	1066.50	CWX823-7.3728M
8.0000	CW436CT-ND	2.13	1.78	1.43	CW436TR-ND	1066.50	CWX823-8.0M
10.0000	CW437CT-ND	2.13	1.78	1.43	CW437TR-ND	1066.50	CWX823-10.0M
12.0000	CW438CT-ND	2.13	1.78	1.43	CW438TR-ND	1066.50	CWX823-12.0M
12.2880	CW439CT-ND	2.13	1.78	1.43	CW439TR-ND	1066.50	CWX823-12.288M
14.3182	CW440CT-ND	2.13	1.78	1.43	CW440TR-ND	1066.50	CWX823-14.31818M
15.3600	CW441CT-ND	2.13	1.78	1.43	CW441TR-ND	1066.50	CWX823-15.36M
16.0000	CW442CT-ND	2.13	1.78	1.43	CW442TR-ND	1066.50	CWX823-16.0M
16.3840	CW443CT-ND	2.13	1.78	1.43	CW443TR-ND	1066.50	CWX823-16.384M
18.4320	CW444CT-ND	2.13	1.78	1.43	CW444TR-ND	1066.50	CWX823-18.432M
19.4400	CW445CT-ND	2.13	1.78	1.43	CW445TR-ND	1066.50	CWX823-19.44M
20.0000	CW446CT-ND	2.13	1.78	1.43	CW446TR-ND	1066.50	CWX823-20.0M
20.4800	CW447CT-ND	2.13	1.78	1.43	CW447TR-ND	1066.50	CWX823-20.48M
24.0000	CW448CT-ND	2.13	1.78	1.43	CW448TR-ND	1066.50	CWX823-24.0M
24.5760	CW449CT-ND	2.13	1.78	1.43	CW449TR-ND	1066.50	CWX823-24.576M
25.0000	CW450CT-ND	2.13	1.78	1.43	CW450TR-ND	1066.50	CWX823-25.0M
27.0000	CW451CT-ND	2.13	1.78	1.43	CW451TR-ND	1066.50	CWX823-27.0M
29.4912	CW452CT-ND	2.13	1.78	1.43	CW452TR-ND	1066.50	CWX823-29.4912M
30.0000	CW453CT-ND	2.13	1.78	1.43	CW453TR-ND	1066.50	CWX823-30.0M
32.0000	CW454CT-ND	2.13	1.78	1.43	CW454TR-ND	1066.50	CWX823-32.0M
32.7680	CW455CT-ND	2.13	1.78	1.43	CW455TR-ND	1066.50	CWX823-32.768M
33.0000	CW456CT-ND	2.13	1.78	1.43	CW456TR-ND	1066.50	CWX823-33.0M
33.3330	CW457CT-ND	2.13	1.78	1.43	CW457TR-ND	1066.50	CWX823-33.333M
40.0000	CW458CT-ND	2.13	1.78	1.43	CW458TR-ND	1066.50	CWX823-40.0M
44.7360	CW459CT-ND	2.13	1.78	1.43	CW459TR-ND	1066.50	CWX823-44.736M
45.0000	CW460CT-ND	2.13	1.78	1.43	CW460TR-ND	1066.50	CWX823-45.0M
49.1520	CW461CT-ND	2.13	1.78	1.43	CW461TR-ND	1066.50	CWX823-49.152M
50.0000	CW462CT-ND	2.13	1.78	1.43	CW462TR-ND	1066.50	CWX823-50.0M
60.0000	CW463CT-ND	2.13	1.78	1.43	CW463TR-ND	1066.50	CWX823-60.0M
64.0000	CW464CT-ND	2.40	2.01	1.61	CW464TR-ND	1201.50	CWX823-64.0M
66.6666	CW465CT-ND	2.40	2.01	1.61	CW465TR-ND	1201.50	CWX823-66.6666M
72.0000	CW466CT-ND	2.40	2.01	1.61	CW466TR-ND	1201.50	CWX823-72.0M
80.0000	CW467CT-ND	2.40	2.01	1.61	CW467TR-ND	1201.50	CWX823-80.0M
100.0000	CW468CT-ND	3.11	2.59	2.07	CW468TR-ND	1552.50	CWX823-100.0M
125.0000	CW469CT-ND	5.94	4.95	3.96	CW469TR-ND	2970.00	CWX823-125.0M
156.2500	CW470CT-ND	11.48	9.57	7.65	CW470TR-ND	5737.50	CWX823-156.25M

CWX815 and CWX825

Specifications: • **Duty Cycle at 50% of Vcc:** 40% ~ 60% • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Output Current:** -8mA IOH • **Output Current:** 8mA IOL • **Load Capacitance:** 50.0pF • **Output Enable Voltage:** 4.50V (VOH) • **Output Enable Voltage:** .40V (VOL) • **Supply Voltage:** 5.00V • **Start-up Time:** 10ms

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Connor-Winfield Part No.
				±25ppm			
1.8432	CW549CT-ND	2.81	2.34	1.88	CW549TR-ND	1404.00	CWX815-1.8432M
3.6864	CW550CT-ND	2.81	2.34	1.88	CW550TR-ND	1404.00	CWX815-3.6864M
7.3728	CW552CT-ND	2.81	2.34	1.88	CW552TR-ND	1404.00	CWX815-7.3728M
8.0000	CW553CT-ND	2.81	2.34	1.88	—	—	CWX815-8.0M
10.0000	CW554CT-ND	2.81	2.34	1.88	CW554TR-ND	1404.00	CWX815-10.0M
12.0000	CW555CT-ND	2.81	2.34	1.88	CW555TR-ND	1404.00	CWX815-12.0M
12.2880	CW556CT-ND	2.81	2.34	1.88	CW556TR-ND	1404.00	CWX815-12.288M
14.3182	CW557CT-ND	2.81	2.34	1.88	CW557TR-ND	1404.00	CWX815-14.31818M
15.3600	CW558CT-ND	2.81	2.34	1.88	—	—	CWX815-15.36M
16.3840	CW560CT-ND	2.81	2.34	1.88	CW560TR-ND	1404.00	CWX815-16.384M
19.4400	CW562CT-ND	2.81	2.34	1.88	CW562TR-ND	1404.00	CWX815-19.44M
20.0000	CW563CT-ND	2.81	2.34	1.88	—	—	CWX815-20.0M
20.4800	CW564CT-ND	2.81	2.34	1.88	CW564TR-ND	1404.00	CWX815-20.48M
24.5760	CW566CT-ND	2.81	2.34	1.88	CW566TR-ND	1404.00	CWX815-24.576M
27.0000	CW568CT-ND	2.81	2.34	1.88	CW568TR-ND	1404.00	CWX815-27.0M
30.0000	CW570CT-ND	2.81	2.34	1.88	CW570TR-ND	1404.00	CWX815-30.0M
32.7680	CW572CT-ND	2.81	2.34	1.88	CW572TR-ND	1404.00	CWX815-32.768M
33.3330	CW574CT-ND	2.81	2.34	1.88	CW574TR-ND	1404.00	CWX815-33.333M
45.0000	CW577CT-ND	2.81	2.34	1.88	CW577TR-ND	1404.00	CWX815-45.0M
49.1520	CW578CT-ND	2.81	2.34	1.88	CW578TR-ND	1404.00	CWX815-49.152M
64.0000	CW581CT-ND	3.21	2.68	2.15	CW581TR-ND	1606.50	CWX815-64.0M
66.6666	CW582CT-ND	3.21	2.68	2.15	CW582TR-ND	1606.50	CWX815-66.6666M
72.0000	CW583CT-ND	3.21	2.68	2.15	CW583TR-ND	1606.50	CWX815-72.0M
80.0000	CW584CT-ND	3.21	2.68	2.15	CW584TR-ND	1606.50	CWX815-80.0M
100.0000	CW585CT-ND	3.92	3.27	2.61	CW585TR-ND	1957.50	CWX815-100.0M
				±50ppm			
1.8432	CW472CT-ND	2.13	1.78	1.43	CW472TR-ND	1066.50	CWX825-1.8432M
3.6864	CW473CT-ND	2.13	1.78	1.43	CW473TR-ND	1066.50	CWX825-3.6864M
4.0000	CW474CT-ND	2.13	1.78	1.43	—	—	CWX825-4.0M
7.3728	CW475CT-ND	2.13	1.78	1.43	CW475TR-ND	1066.50	CWX825-7.3728M
8.0000	CW476CT-ND	2.13	1.78	1.43	—	—	CWX825-8.0M
10.0000	CW477CT-ND	2.13	1.78	1.43	—	—	CWX825-10.0M
12.0000	CW478CT-ND	2.13	1.78	1.43	CW478TR-ND	1066.50	CWX825-12.0M
12.2880	CW479CT-ND	2.13	1.78	1.43	CW479TR-ND	1066.50	CWX825-12.288M
14.3182	CW480CT-ND	2.13	1.78	1.43	CW480TR-ND	1066.50	CWX825-14.31818M
15.3600	CW481CT-ND	2.13	1.78	1.43	CW481TR-ND	1066.50	CWX825-15.36M
16.3840	CW483CT-ND	2.13	1.78	1.43	CW483TR-ND	1066.50	CWX825-16.384M
19.4400	CW485CT-ND	2.13	1.78	1.43	CW485TR-ND	1066.50	CWX825-19.44M
20.4800	CW487CT-ND	2.13	1.78	1.43	CW487TR-ND	1066.50	CWX825-20.48M
24.5760	CW489CT-ND	2.13	1.78	1.43	CW489TR-ND	1066.50	CWX825-24.576M
27.0000	CW491CT-ND	2.13	1.78	1.43	CW491TR-ND	1066.50	CWX825-27.0M
30.0000	CW493CT-ND	2.13	1.78	1.43	—	—	CWX825-30.0M
33.3330	CW496CT-ND	2.13	1.78	1.43	CW496TR-ND	1066.50	CWX825-33.333M
45.0000	CW499CT-ND	2.13	1.78	1.43	CW499TR-ND	1066.50	CWX825-45.0M
49.1520	CW500CT-ND	2.13	1.78	1.43	CW500TR-ND	1066.50	CWX825-49.152M
64.0000	CW503CT-ND	2.40	2.01	1.61	CW503TR-ND	1201.50	CWX825-64.0M
66.6666	CW504CT-ND	2.40	2.01	1.61	CW504TR-ND	1201.50	CWX825-66.6666M
72.0000	CW505CT-ND	2.40	2.01	1.61	CW505TR-ND	1201.50	CWX825-72.0M
80.0000	CW506CT-ND	2.40	2.01	1.61	—	—	CWX825-80.0M
100.0000	CW507CT-ND	3.11	2.59	2.07	CW507TR-ND	1552.50	CWX825-100.0M

CONNOR WINFIELD

2.5V and 3.3V LVPECL SMD Oscillators

Specifications:
- **Output Load:** 50Ω • **Duty Cycle at 50% of Vcc:** 45% ~ 55%
- Output must be terminated into 50Ω to Vcc-2V or Thevenin equivalent • **Fall Time:** 1ns • **Rise Time:** 1ns

Enable/Disable Function (Pad 1)	Output
High or Open	Enable
Low	Disable (High Impedance)

Pin Function	
1	Enable/Disable
2	N/C
3	Ground
4	Q Output
5	$\overline{Q}$ Output
6	Vcc

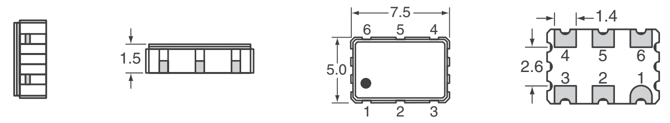

P212, P213, P222 and P223

- **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C

Supply Voltage	Frequency Stability	Freq. (MHz)	Output Voltage V (VOH)	Output Voltage V (VOL)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
2.5V	±25ppm	100.00	1.475	.88	CW610-ND	27.00	21.60	17.40	P212-100.0M
		125.00	1.475	.88	CW611-ND	27.00	21.60	17.40	P212-125.0M
		155.52	1.475	.88	CW612-ND	28.13	22.50	18.13	P212-155.52M
		156.25	1.475	.88	CW613-ND	28.13	22.50	18.13	P212-156.25M
	±50ppm	100.00	1.475	.88	CW614-ND	24.75	19.80	15.95	P222-100.0M
		125.00	1.475	.88	CW615-ND	24.75	19.80	15.95	P222-125.0M
		155.52	1.475	.88	CW616-ND	25.88	20.70	16.68	P222-155.52M
		156.25	1.475	.88	CW617-ND	25.88	20.70	16.68	P222-156.25M
3.3V	±25ppm	100.00	2.275	1.68	CW602-ND	27.00	21.60	17.40	P213-100.0M
		125.00	2.275	1.68	CW603-ND	27.00	21.60	17.40	P213-125.0M
		155.52	2.275	1.68	CW604-ND	28.13	22.50	18.13	P213-155.52M
		156.25	2.275	1.68	CW605-ND	28.13	22.50	18.13	P213-156.25M
	±50ppm	100.00	2.275	1.68	CW606-ND	24.75	19.80	15.95	P223-100.0M
		125.00	2.275	1.68	CW607-ND	24.75	19.80	15.95	P223-125.0M
		155.52	2.275	1.68	CW608-ND	25.88	20.70	16.68	P223-155.52M
		156.25	2.275	1.68	CW609-ND	25.88	20.70	16.68	P223-156.25M

P122, P123, P142 and P143

- **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C

Supply Voltage	Frequency Stability	Freq. (MHz)	Output Voltage V (VOH)	Output Voltage V (VOL)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
2.5V	±20ppm	100.00	1.475	.88	CW594-ND	24.75	19.80	15.95	P142-100.00M
		125.00	1.475	.88	CW595-ND	24.75	19.80	15.95	P142-125.0M
		155.52	1.475	.88	CW596-ND	25.88	20.70	16.68	P142-155.52M
		156.25	1.475	.88	CW597-ND	25.88	20.70	16.68	P142-156.25M
	±50ppm	100.00	1.475	.88	CW598-ND	22.50	18.00	14.50	P122-100.0M
		125.00	1.475	.88	CW599-ND	22.50	18.00	14.50	P122-125.0M
		155.52	1.475	.88	CW600-ND	23.63	18.90	15.23	P122-155.52M
		156.25	1.475	.88	CW601-ND	23.63	18.90	15.23	P122-156.25M
3.3V	±20ppm	100.00	2.275	1.68	CW586-ND	24.75	19.80	15.95	P143-100.0M
		125.00	2.275	1.68	CW587-ND	24.75	19.80	15.95	P143-125.0M
		155.52	2.275	1.68	CW588-ND	25.88	20.70	16.68	P143-155.52M
		156.25	2.275	1.68	CW589-ND	25.88	20.70	16.68	P143-156.25M
	±50ppm	100.00	2.275	1.68	CW590-ND	22.50	18.00	14.50	P123-100.0M
		125.00	2.275	1.68	CW591-ND	22.50	18.00	14.50	P123-125.0M
		155.52	2.275	1.68	CW592-ND	23.63	18.90	15.23	P123-155.52M
		156.25	2.275	1.68	CW593-ND	23.63	18.90	15.23	P123-156.25M

3.3V LVDS SMD Oscillator

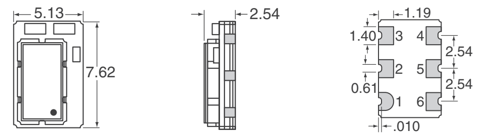

Pin Function	
1	N/C
2	Enable/Disable
3	Ground (Case)
4	Output Q
5	Comp Output $\overline{Q}$
6	Vcc

Specifications:
- **Output Differential Voltage:** 450mV Max. • **Enable Voltage:** 0.3Vcc Max. • **Disable Voltage:** 0.7Vcc Min.
- **Output Load:** 100Ω • **Duty Cycle at 50% of Vcc:** 45% ~ 55% • **Freq. Stability:** ±20ppm • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C • **Fall Time:** 10ns • **Rise Time:** 10ns

Note: Vod measured with 100Ω resistor between the true output and the complementary output

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
622.08	CW618-ND	64.13	51.30	41.33	X502-622.08M

LVCMOS and LVPECL SMD VCXOs

Specifications: • **Supply Voltage:** 3.3V • **Absolute Pull Range (±):** 50ppm • **Duty Cycle:** 45% ~ 55% • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C

Note: For pin outs and output characteristics, please see datasheet on Digi-Key website.

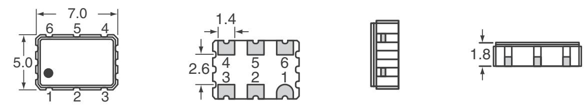

Frequency (MHz)	Output Voltage V (VOH)	Output Voltage V (VOL)	Load Cap.	Fall Time (ns)	Rise Time (ns)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
LVCMOS										
74.1758	2.400	.40	15.0pF	2.0	2.0	CW621-ND	31.50	25.20	20.30	V802-74.1758M
74.2500	2.400	.40	15.0pF	2.0	2.0	CW622-ND	31.50	25.20	20.30	V802-74.25M
100.0000	2.400	.40	15.0pF	2.0	2.0	CW623-ND	33.75	27.00	21.75	V802-100.0M
125.0000	2.400	.40	15.0pF	2.0	2.0	CW624-ND	33.75	27.00	21.75	V802-125.0M
LVPECL — Output Load: 50 Ohms										
155.5200	2.275	1.68	—	1.5	1.5	CW625-ND	37.13	29.70	23.93	V702-155.52M
156.2500	2.275	1.68	—	1.5	1.5	CW626-ND	37.13	29.70	23.93	V702-156.25M

Surface Mount Oscillators

HSM92 - HSM93 Series: • **Frequency Stability:** HSM92: ±50ppm; HSM93: ±100ppm • **Temperature Range:** 0°C ~ 70°C • **Waveform**: HCMOS Squarewave, Tri-State • **Output: Voh**: 4.5V Minimum; **Vol:** 0.5V Max. • **Current: Ioh:** 16mA; **Iol:** 16mA • **Rise/Fall Time**: 7ns Max. • **Duty Cycle:** 45/55 Max. • **Start Up Time:** 10mS Max. • **Supply Voltage**: 5VDC, ±10% • **Enable/Disable Time**: 100ns Max. • **Output Load:** 50pF

HSM 536 Series: • **Frequency Stability:** ±100ppm • **Temperature Range:** 0°C ~ 70°C • **Waveform:** HCMOS Squarewave • **Output: Voh:** 4.5V Minimum; **Vol:** 0.5V Max. • **Rise/Fall Time**: 7ns Max. • **Duty Cycle:** 50/50%, ±10% • **Start Up Time:** 10mS Max. • **Supply Voltage**: 5VDC, ±10% • **Output Load**: 50pF

Fig. 1

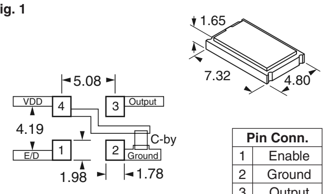

Suggested Pad Layout

Pin Conn.	
1	Enable
2	Ground
3	Output
4	Vdd

Fig. 2

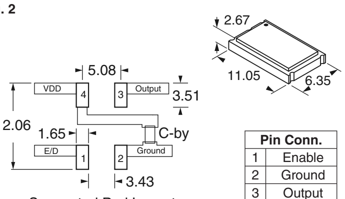

Suggested Pad Layout

Pin Conn.	
1	Enable
2	Ground
3	Output
4	Vdd

Fig.	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	Connor-Winfield Part No.
1	4.9152	CW301-ND	11.61	9.68	7.74	6.24	HSM93-4.9152
	8.0000	CW302-ND	11.61	9.68	7.74	6.24	HSM93-8.0000
	10.0000	CW303-ND	11.61	9.68	7.74	6.24	HSM93-10.0000
	16.0000	CW304-ND	11.61	9.68	7.74	6.24	HSM93-16.0000
	20.0000	CW305-ND	11.61	9.68	7.74	6.24	HSM93-20.0000
	25.0000	CW306-ND	11.61	9.68	7.74	6.24	HSM93-25.0000
	29.4912	CW341-ND	12.15	10.13	8.10	6.53	HSM92-29.4912
	32.0000	CW307-ND	11.61	9.68	7.74	6.24	HSM93-32.0000
	40.0000	CW308-ND	11.61	9.68	7.74	6.24	HSM93-40.0000
	44.2368	CW342-ND	12.15	10.13	8.10	6.53	HSM92-44.2368
	50.0000	CW309-ND	11.61	9.68	7.74	6.24	HSM93-50.0000
	60.0000	CW310-ND	13.23	11.03	8.82	7.11	HSM93-60.0000
2	10.0000	CW321-ND	10.80	9.00	7.20	5.80	HSM536-10.0000
	18.4320	CW322-ND	10.80	9.00	7.20	5.80	HSM536-18.4320
	20.0000	CW323-ND	10.80	9.00	7.20	5.80	HSM536-20.0000
	25.0000	CW324-ND	10.80	9.00	7.20	5.80	HSM536-25.0000
	32.0000	CW325-ND	10.80	9.00	7.20	5.80	HSM536-32.0000
	40.0000	CW326-ND	10.80	9.00	7.20	5.80	HSM536-40.0000
	50.0000	CW327-ND	10.80	9.00	7.20	5.80	HSM536-50.0000
	60.0000	CW328-ND	11.07	9.23	7.38	5.95	HSM536-60.0000
	64.0000	CW329-ND	11.07	9.23	7.38	5.95	HSM536-64.0000
	66.6666	CW330-ND	11.07	9.23	7.38	5.95	HSM536-66.6666

CONNOR WINFIELD

3.3V and 5V HCMOS OCXO

Mounting Type	Freq. (MHz)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
Surface Mount	10.00	3.3	CW627-ND	112.50	90.00	72.50	ASOF3S3-10.0M
	10.00	3.3	CW634-ND	202.50	162.00	130.50	BSOF3S3E-10.0M
	10.00	5.0	CW635-ND◆	213.75	171.00	137.75	OFC5DJ3BS-10.0M
	12.80	3.3	CW628-ND	112.50	90.00	72.50	ASOF3S3-12.8M
	12.80	5.0	CW630-ND	112.50	90.00	72.50	ASOF5S3-12.8M
	19.44	5.0	CW631-ND	112.50	90.00	72.50	ASOF5S3-19.44M
	20.00	3.3	CW629-ND◆	112.50	90.00	72.50	ASOF3S3-20.0M
	20.00	5.0	CW636-ND	213.75	171.00	137.75	OFC5DJ3BS-20.0M
Through Hole	10.00	5.0	CW632-ND	135.00	108.00	87.00	DGOF5S3-10.0M
	20.00	5.0	CW633-ND	135.00	108.00	87.00	DGOF5S3-20.0M

◆ *RoHS Compliant*

Note: For package specifications and additional information, please see datasheet on Digi-Key website.

3.3V HCMOS SMD TCXO

Specifications: • **Duty Cycle at 50% of Vcc:** 45% ~ 55% • **Supply Voltage:** 3.3V • **Frequency Stability:** ±4.6ppm • **Output Voltage:** 2V (Voh) ~ .4V (Vol) • **Load Capacitance:** 15.0pF • **Rise Time:** 5ns • **Fall Time:** 5ns • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C

Pin Connection	
1	N/C
2	N/C
3	Ground
4	Output
5	N/C
6	Vcc

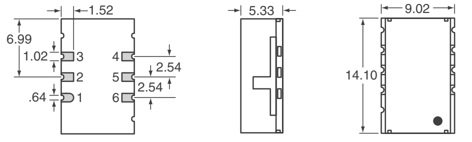

Freq. (MHz)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
12.8	CW619-ND	49.50	39.60	31.90	TFLD546-12.8M
20.0	CW620-ND	49.50	39.60	31.90	TFLD546-20.0M

Surface Mount Crystals

Specifications: • **Temperature Stability**: ±50ppm • **Frequency Tolerance:** ±50ppm @ 25°C • **Operating Temperature:** -10°C ~ 65°C • **Drive Level:** 1mW Typical

Fig. 1

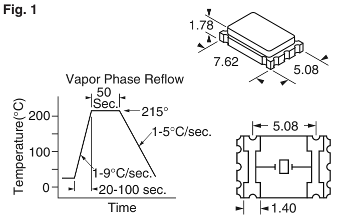

Fig. 2

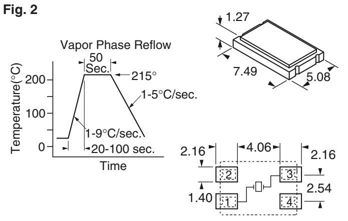

Fig.	Frequency (MHz)	Load Cap.	Digi-Key Part No.	Price Each 1	10	100	500	Connor-Winfield Part No.
1	10.0000	16pF	CW401-ND	4.73	3.94	3.15	2.54	XL-1C-10.0000
	12.0000	16pF	CW402-ND	4.73	3.94	3.15	2.54	XL-1C-12.0000
	16.0000	16pF	CW403-ND	4.73	3.94	3.15	2.54	XL-1C-16.0000
	18.4320	16pF	CW404-ND	4.73	3.94	3.15	2.54	XL-1C-18.4320
	20.0000	16pF	CW405-ND	4.73	3.94	3.15	2.54	XL-1C-20.0000
	29.4912	16pF	CW407-ND	5.54	4.62	3.69	2.98	XL-1C-29.4912
	40.0000	Series	CW408-ND	5.13	4.28	3.42	2.76	XL-1C-40.0000
	44.2368	Series	CW409-ND	5.13	4.28	3.42	2.76	XL-1C-44.2368
	50.0000	Series	CW410-ND	5.13	4.28	3.42	2.76	XL-1C-50.0000
2	10.0000	16pF	CW421-ND	7.83	6.53	5.22	4.21	XM-1-10.0000
	12.0000	16pF	CW422-ND	7.83	6.53	5.22	4.21	XM-1-12.0000
	16.0000	16pF	CW423-ND	7.83	6.53	5.22	4.21	XM-1-16.0000
	18.4320	16pF	CW424-ND	7.83	6.53	5.22	4.21	XM-1-18.4320
	20.0000	16pF	CW425-ND	7.83	6.53	5.22	4.21	XM-1-20.0000
	29.4912	Series	CW427-ND	9.32	7.77	6.21	5.01	XM-1-29.4912
	40.0000	Series	CW428-ND	8.51	7.09	5.67	4.57	XM-1-40.0000
	44.2368	Series	CW429-ND	8.51	7.09	5.67	4.57	XM-1-44.2368
	50.0000	Series	CW430-ND	8.51	7.09	5.67	4.57	XM-1-50.0000

SII Seiko Instruments Inc.

32.768kHz Crystals

Fig. 1

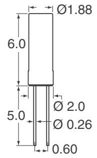

Fig. 2

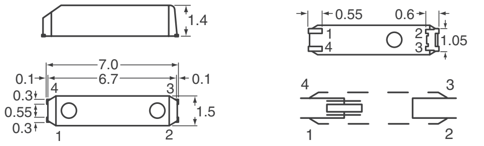

Fig. 3

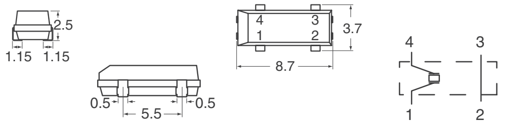

Fig.	Load Capacitance (pF)	Frequency Tolerance (ppm)	Operating Temperature Range	ESR Max. (Ω)	Drive Level Typ.	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 3,000	Seiko Instruments Part No.
1	6.0	±20	-10°C ~ 60°C	50K	0.1µW	728-1000-ND†	.35	.30	.20	—	—	VT200F-6PF20PPM
	12.5	±20	-10°C ~ 60°C	50K	0.1µW	728-1001-ND†	.35	.30	.20	—	—	VT200F-12.5PF20PPM
2	7.0	±20	-40°C ~ 85°C	65K	0.1µW	728-1002-1-ND	1.05	.90	.75	728-1002-2-ND	460.00/M	SSPT7F-7PF20PPM
	12.5	±20	-40°C ~ 85°C	65K	0.1µW	728-1003-1-ND	1.05	.90	.75	728-1003-2-ND	460.00/M	SSPT7F-12.5PF20PPM
3	6.0	±20	-40°C ~ 85°C	50K	0.1µW	728-1004-1-ND	.70	.60	.50	728-1004-2-ND	307.00/M	SPT2AF-6PF20PPM
	12.5	±20	-40°C ~ 85°C	50K	0.1µW	728-1005-1-ND	.70	.60	.50	728-1005-2-ND	307.00/M	SPT2AF-12.5PF20PPM

† Bulk

LINEAR TECHNOLOGY

Silicon Oscillators

Features: Linear's solid-state "instant clocks" can be set to output a broad range of frequencies using a single resistor, or via an SPI or I²C interface.

Digi-Reel®

Fig. 1 — TSOT23-5

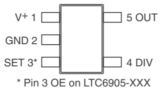

* Pin 3 OE on LTC6905-XXX

Fig. 2 — 10-MSOP

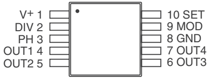

Fig. 3 — 8-MSOP

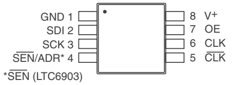

*$\overline{\text{SEN}}$ (LTC6903)
*ADR (LTC6904)

Fig. 4 — SOT23-6

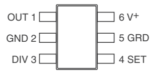

Fig.	Description	Frequency Range	Supply Current @ Frequency	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel Pricing† 500
1	Resistor Programmable Oscillator	1kHz ~ 33MHz	1.1mA @ 3MHz	LTC1799CS5#TRMPBFCT-ND◆	3.89	3.48	3.13	1040.00
	Resistor Programmable Oscillator	1kHz ~ 33MHz	1.1mA @ 3MHz	LTC1799IS5#TRMPBFCT-ND◆	4.31	3.85	3.47	1420.00
	Resistor Programmable Oscillator	1kHz ~ 33MHz	1.1mA @ 3MHz	LTC1799HS5#TRMPBFCT-ND◆	4.70	4.20	3.78	1545.00
	Resistor Programmable Oscillator	1kHz ~ 20MHz	860µA @ 10MHz	LTC6900CS5#TRMCT-ND	3.89	3.48	3.13	—
	Resistor Programmable Oscillator	1kHz ~ 20MHz	860µA @ 10MHz	LTC6900CS5#TRMPBFCT-ND◆	3.89	3.48	3.13	1040.00
	Resistor Programmable Oscillator	1kHz ~ 20MHz	860µA @ 10MHz	LTC6900IS5#TRMPBFCT-ND◆	4.31	3.85	3.47	1420.00
2	Resistor Programmable with SS	5kHz ~ 20MHz	1.8mA @ 10MHz	LTC6902CMS-ND‡	4.40	2.93	2.40	—
	Resistor Programmable with SS	5kHz ~ 20MHz	1.8mA @ 10MHz	LTC6902CMS#PBF-ND◆‡	4.40	2.93	2.40	—
3	SPI Programmable Oscillator	1kHz ~ 68MHz	3.1mA @ 1MHz	LTC6903CMS8#PBF-ND◆‡	3.90	2.59	2.20	—
	I²C Programmable Oscillator	1kHz ~ 68MHz	3.1mA @ 1MHz	LTC6904CMS8-ND‡	4.20	2.79	2.35	—
	I²C Programmable Oscillator	1kHz ~ 68MHz	3.1mA @ 1MHz	LTC6904CMS8#PBF-ND◆‡	4.20	2.79	2.35	—
1	Fixed Frequency Oscillator	25/50/100MHz	12mA @ 100MHz	LTC6905CS5-100#TRMPBFCT-ND◆	2.80	2.50	2.25	730.00
	Fixed Frequency Oscillator	33.3/66.7/133MHz	15mA @ 133MHz	LTC6905CS5-133#TRM-ND‡	2.50	1.71	1.41	—
	Fixed Frequency Oscillator	33.3/66.7/133MHz	15mA @ 133MHz	LTC6905CS5-133#TRMPBFCT-ND◆	2.80	2.50	2.25	730.00
	Fixed Frequency Oscillator	20/40/80MHz	11mA @ 80MHz	LTC6905CS5-80#TRM-ND‡	2.50	1.71	1.41	—
	Fixed Frequency Oscillator	20/40/80MHz	11mA @ 80MHz	LTC6905CS5-80#TRMPBFCT-ND◆	2.80	2.50	2.25	730.00
	Fixed Frequency Oscillator	24/48/96MHz	12mA @ 96MHz	LTC6905CS5-96#TRM-ND‡	2.50	1.71	1.41	—
	Fixed Frequency Oscillator	24/48/96MHz	12mA @ 96MHz	LTC6905CS5-96#TRMPBFCT-ND◆	2.80	2.50	2.25	730.00
	Resistor Programmable Oscillator	17MHz ~ 170MHz	5mA @ 21MHz	LTC6905CS5#TRMPBFCT-ND◆	3.95	3.53	3.18	1035.00
4	Resistor Programmable Oscillator	10kHz ~ 1MHz	15µA @ 100kHz	LTC6906CS6#TRMPBFCT-ND◆	3.02	2.70	2.43	790.00
	Resistor Programmable Oscillator	40kHz ~ 4MHz	48µA @ 400kHz	LTC6907CS6#TRMPBFCT-ND◆	3.02	2.70	2.43	790.00

◆ *RoHS Compliant* † For Tape and Reel part number, change CT-ND to TR-ND. ‡ Bulk

FOXElectronics

SMD Tuning Fork Crystals

Fig. 1

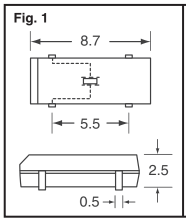

Fig. 2

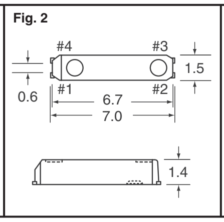

Fig. 3

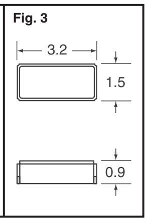

Specifications: • **Frequency Tolerance:** ±20ppm • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Load Capacitance:** 12.5pF • **Insulation Resistance [Min]:** 500MΩ • **Drive Level:** 1μW

Fig.	Frequency (kHz)	ESR (kΩ)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Fox Electronics Part No.
					FSRLF Series				
1	32.768	50	631-1000-1-ND	1.03	.89	.67	631-1000-2-ND	484.00/M	FSRLF327
					FSXLF Series				
2	32.768	65	631-1001-1-ND	3.33	2.86	2.14	631-1001-2-ND	1731.00/M	FSXLF327
					FX135 Series				
3	32.768	70	631-1002-1-ND	2.07	1.77	1.33	631-1002-2-ND	1074.00/M	FX135A-327

FOXSDLF Series SMD Crystals

Specifications:
- **Frequency Tolerance:** ±50ppm
- **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C
- **Drive Level:** 0.5mW • **Shunt Capacitance:** 7pF

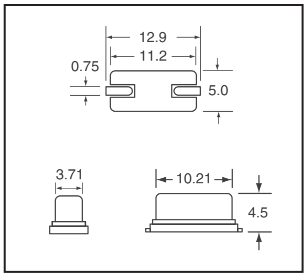

Load Capacitance	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
12.0pF	4.194304	631-1006-1-ND	.83	.72	.62	631-1006-2-ND	385.00	FOXSDLF/041
18.0pF	3.579545	631-1003-1-ND	.91	.79	.68	631-1003-2-ND	424.00	FOXSDLF/036S
20.0pF	3.686400	631-1004-1-ND	.91	.79	.68	631-1004-2-ND	424.00	FOXSDLF/0368-20
	4.000000	631-1005-1-ND	.83	.72	.62	631-1005-2-ND	385.00	FOXSDLF/040
	4.915200	631-1007-1-ND	.83	.72	.62	631-1007-2-ND	385.00	FOXSDLF/049-20
	6.000000	631-1008-1-ND	.83	.72	.62	631-1008-2-ND	385.00	FOXSDLF/060-20
	7.372800	631-1009-1-ND	.83	.72	.62	631-1009-2-ND	385.00	FOXSDLF/073-20
	8.000000	631-1010-1-ND	.83	.72	.62	631-1010-2-ND	385.00	FOXSDLF/080-20
	10.000000	631-1011-1-ND	.83	.72	.62	631-1011-2-ND	385.00	FOXSDLF/100-20
	11.059200	631-1012-1-ND	.83	.72	.62	631-1012-2-ND	385.00	FOXSDLF/115-20
	12.000000	631-1013-1-ND	.83	.72	.62	631-1013-2-ND	385.00	FOXSDLF/120-20
	12.288000	631-1014-1-ND	.83	.72	.62	631-1014-2-ND	385.00	FOXSDLF/128-20
	14.318180	631-1015-1-ND	.67	.58	.50	631-1015-2-ND	312.00	FOXSDLF/143-20
	14.745600	631-1016-1-ND	.83	.72	.62	631-1016-2-ND	385.00	FOXSDLF/147-20
	16.000000	631-1017-1-ND	.83	.72	.62	631-1017-2-ND	385.00	FOXSDLF/160-20
	20.000000	631-1018-1-ND	.83	.72	.62	631-1018-2-ND	385.00	FOXSDLF/200-20
	22.118400	631-1019-1-ND	.83	.72	.62	631-1019-2-ND	385.00	FOXSDLF/221-20
	24.000000	631-1020-1-ND	.91	.79	.68	631-1020-2-ND	424.00	FOXSDLF/240F-20
	24.576000	631-1021-1-ND	.91	.79	.68	631-1021-2-ND	424.00	FOXSDLF/245F-20
	25.000000	631-1022-1-ND	1.01	.88	.76	631-1022-2-ND	473.00	FOXSDLF/250F-20

FQ Series All Quartz SMD Crystals

Specifications: • **Frequency Tolerance:** ±30ppm • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -30°C ~ 85°C • **Drive Level:** 0.5mW • **Shunt Capacitance:** 7pF • **Load Capacitance:** 20.0pF

Fig. 1

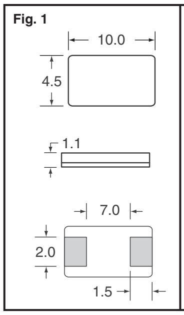

Fig. 2

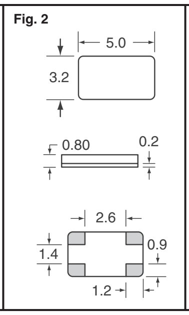

Fig. 3

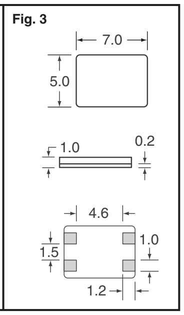

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
				FQ1045A Series				
1	3.6864	631-1032-1-ND	.88	.72	.64	631-1032-2-ND	448.00	FQ1045A-3.6864
	4.0000	631-1033-1-ND	.88	.72	.64	631-1033-2-ND	448.00	FQ1045A-4
	4.9152	631-1034-1-ND	.88	.72	.64	631-1034-2-ND	448.00	FQ1045A-4.9152
	6.0000	631-1035-1-ND	.88	.72	.64	631-1035-2-ND	448.00	FQ1045A-6
				FQ5032B Series				
2	12.0000	631-1023-1-ND	.80	.66	.58	631-1023-2-ND	406.00	FQ5032B-12
	16.0000	631-1024-1-ND	.80	.66	.58	631-1024-2-ND	406.00	FQ5032B-16
	20.0000	631-1025-1-ND	.80	.66	.58	631-1025-2-ND	406.00	FQ5032B-20
	24.0000	631-1026-1-ND	.80	.66	.58	631-1026-2-ND	406.00	FQ5032B-24
	24.5760	631-1027-1-ND	.80	.66	.58	631-1027-2-ND	406.00	FQ5032B-24.576
				FQ7050B Series				
3	7.3728	631-1028-1-ND	.66	.54	.48	631-1028-2-ND	336.00	FQ7050B-7.3728
	8.0000	631-1029-1-ND	.66	.54	.48	631-1029-2-ND	336.00	FQ7050B-8
	10.0000	631-1030-1-ND	.66	.54	.48	631-1030-2-ND	336.00	FQ7050B-10
	11.0592	631-1031-1-ND	.66	.54	.48	631-1031-2-ND	336.00	FQ7050B-11.0592

FX Series Ceramic SMD Crystals

Fig. 1

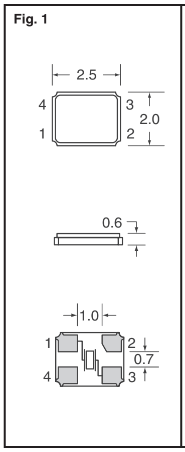

Fig. 2

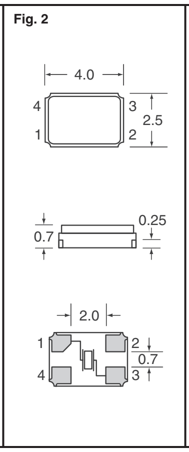

Fig. 3

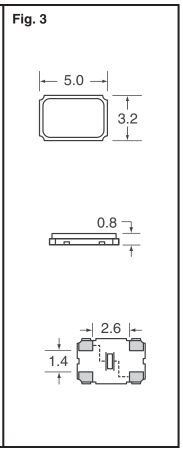

Specifications:
- **Frequency Tolerance:** ±50ppm • **Operating Temperature:** -10°C ~ 60°C • **Load Capacitance:** 20.0pF

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
				FX252B Series				
1	16.0000	631-1036-1-ND	4.54	3.72	3.30	631-1036-2-ND	2310.00	FX252B-16
	20.0000	631-1037-1-ND	4.54	3.72	3.30	—	—	FX252B-20
	24.0000	631-1038-1-ND	4.54	3.72	3.30	631-1038-2-ND	2310.00	FX252B-24
				FX425B Series				
2	12.0000	631-1039-1-ND	2.09	1.71	1.52	631-1039-2-ND	1064.00	FX425B-12
	16.0000	631-1040-1-ND	2.09	1.71	1.52	—	—	FX425B-16
	20.0000	631-1041-1-ND	2.09	1.71	1.52	—	—	FX425B-20
	24.0000	631-1042-1-ND	2.09	1.71	1.52	—	—	FX425B-24
				FX532B Series				
3	10.0000	631-1044-1-ND	4.40	3.60	3.20	631-1044-2-ND	2240.00	FX532B-10
	12.0000	631-1046-1-ND	4.40	3.60	3.20	—	—	FX532B-12
	16.0000	631-1047-1-ND	4.40	3.60	3.20	—	—	FX532B-16
	24.0000	631-1049-1-ND	4.40	3.60	3.20	—	—	FX532B-24

FOXElectronics

Thru-Hole Crystals

Specifications:
- **Shunt Capacitance:** 7pF • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C

Fig. 1

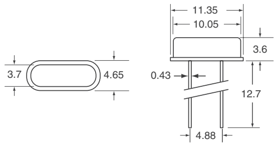

Fig. 2

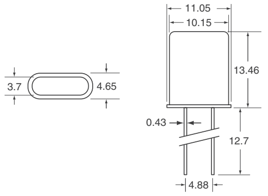

Fig.	Load Capacitance	Frequency (MHz)	Digi-Key Part No.	Price Each			Fox Electronics Part No.
				1	10	50	
HC49SLF							
1	Series	3.686400	631-1094-ND	.65	.56	.51	FOXSLF/0368S
		4.000000	631-1096-ND	.57	.49	.45	FOXSLF/040A
		8.000000	631-1099-ND	.57	.49	.45	FOXSLF/080
		11.059200	631-1102-ND	.57	.49	.45	FOXSLF/115
		12.000000	631-1104-ND	.57	.49	.45	FOXSLF/120
		16.000000	631-1107-ND	.57	.49	.45	FOXSLF/160
		20.000000	631-1110-ND	.57	.49	.45	FOXSLF/200
	18.0pF	3.579545	631-1093-ND	.65	.56	.51	FOXSLF/036S
	20.0pF	3.686400	631-1095-ND	.65	.56	.51	FOXSLF/0368-20
		4.000000	631-1097-ND	.57	.49	.45	FOXSLF/040
1	20.0pF	7.372800	631-1098-ND	.57	.49	.45	FOXSLF/073-20
		8.000000	631-1100-ND	.57	.49	.45	FOXSLF/080-20
		10.000000	631-1101-ND	.57	.49	.45	FOXSLF/100-20
		11.059200	631-1103-ND	.57	.49	.45	FOXSLF/115-20
		12.000000	631-1105-ND	.57	.49	.45	FOXSLF/120-20
		14.745600	631-1106-ND	.57	.49	.45	FOXSLF/147-20
		16.000000	631-1108-ND	.57	.49	.45	FOXSLF/160-20
		18.432000	631-1109-ND	.57	.49	.45	FOXSLF/184-20
		20.000000	631-1111-ND	.57	.49	.45	FOXSLF/200-20
		25.000000	631-1112-ND	.57	.49	.45	FOXSLF/250F-20
HC49ULF							
2	Series	3.686400	631-1079-ND	.53	.45	.42	FOXLF0368S
		4.000000	631-1082-ND	.53	.45	.42	FOXLF040A
		11.059200	631-1085-ND	.53	.45	.42	FOXLF115
		12.000000	631-1087-ND	.53	.45	.42	FOXLF120
		16.000000	631-1089-ND	.53	.45	.42	FOXLF160
	13.0pF	1.843200	631-1076-ND	1.21	1.05	.96	FOXLF018S
	18.0pF	3.579545	631-1078-ND	.53	.45	.42	FOXLF036S
	20.0pF	3.686400	631-1080-ND	.53	.45	.42	FOXLF0368-20
		4.000000	631-1081-ND	.53	.45	.42	FOXLF040
		8.000000	631-1083-ND	.53	.45	.42	FOXLF080-20
		10.000000	631-1084-ND	.53	.45	.42	FOXLF100-20
		11.059200	631-1086-ND	.53	.45	.42	FOXLF115-20
		12.000000	631-1088-ND	.53	.45	.42	FOXLF120-20
		16.000000	631-1090-ND	.53	.45	.42	FOXLF160-20
		20.000000	631-1091-ND	.54	.46	.43	FOXLF200-20
		25.000000	631-1092-ND	.61	.52	.48	FOXLF250F-20
	32.0pF	2.457600	631-1077-ND	1.09	.94	.86	FOXLF024S

XPRESSO™ FXO-HC735 Series SMD Oscillators

Specifications: • **Supply Voltage:** 3.3V ±5% • **Input Current (Typ):** 40mA • **Output Symmetry:** 45% ~ 55% • **Rise Time/Fall Time:** 2nS • **Output Voltage:** (VOL) 10% V_{DD}, (VOH) 90% V_{DD} Minimum • **Output Enable/Disable Time:** 100nS • **Output Load (Typ):** 15pF • **Start-up Time:** 10mS • **Frequency Tolerance:** ±50ppm • **Storage Temperature:** -55°C ~ 125°C

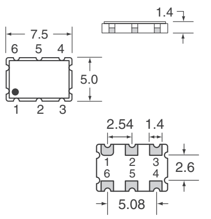

Pin Connections			
1	E/D	**4**	Out
2	NC	**5**	NC
3	GND	**6**	V_{DD}

ENABLE/DISABLE Function	
E/O (Pin 1)	**Output (Pin 4)**
OPEN	ACTIVE
‘1’ Level $V_{IH} \geq 70\% V_{DD}$	ACTIVE
‘0’ Level $V_{IL} \leq 30\% V_{DD}$	High Z

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
		1	10	50			
1.84320	631-1051-1-ND	1.80	1.68	1.44	631-1051-2-ND	672.00	FXO-HC735-1.8432
3.68640	631-1114-1-ND	1.80	1.68	1.44	631-1114-2-ND	696.00	FXO-HC735-3.6864
4.00000	631-1115-1-ND	1.80	1.68	1.44	631-1115-2-ND	696.00	FXO-HC735-4
10.00000	631-1052-1-ND	1.80	1.68	1.44	631-1052-2-ND	672.00	FXO-HC735-10
16.00000	631-1053-1-ND	1.80	1.68	1.44	631-1053-2-ND	672.00	FXO-HC735-16
12.00000	631-1116-1-ND	1.80	1.68	1.44	631-1116-2-ND	696.00	FXO-HC735-12
12.28800	631-1117-1-ND	1.80	1.68	1.44	631-1117-2-ND	696.00	FXO-HC735-12.288
14.31818	631-1118-1-ND	1.80	1.68	1.44	631-1118-2-ND	696.00	FXO-HC735-14.31818
18.43200	631-1119-1-ND	1.80	1.68	1.44	631-1119-2-ND	696.00	FXO-HC735-18.432
20.00000	631-1054-1-ND	1.80	1.68	1.44	631-1054-2-ND	672.00	FXO-HC735-20
24.57600	631-1120-1-ND	1.80	1.68	1.44	631-1120-2-ND	696.00	FXO-HC735-24.576
25.00000	631-1055-1-ND	1.80	1.68	1.44	631-1055-2-ND	672.00	FXO-HC735-25
27.00000	631-1056-1-ND	1.80	1.68	1.44	631-1056-2-ND	672.00	FXO-HC735-27
32.00000	631-1121-1-ND	1.80	1.68	1.44	631-1121-2-ND	696.00	FXO-HC735-32
33.33300	631-1057-1-ND	1.80	1.68	1.44	631-1057-2-ND	672.00	FXO-HC735-33.333
40.00000	631-1058-1-ND	1.80	1.68	1.44	631-1058-2-ND	672.00	FXO-HC735-40
48.00000	631-1059-1-ND	1.80	1.68	1.44	631-1059-2-ND	672.00	FXO-HC735-48
50.00000	631-1060-1-ND	1.80	1.68	1.44	631-1060-2-ND	672.00	FXO-HC735-50

F254 Series 32.768kHz SMD Oscillator

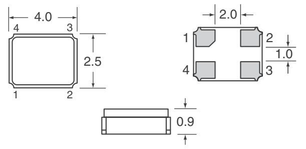

ENABLE/DISABLE Function	
(Pin 1)	**OUTPUT (Pin 3)**
OPEN	ACTIVE
‘1’ Level $V_{IH} \geq 90\% V_{DD}$	ACTIVE
‘0’ Level $V_{IL} \leq 10\% V_{DD}$	High Z

Pin Connections	
1	E/D
2	GND
3	Output
4	V_{DD}

Specifications:
- **Supply Voltage:** 3.3V ±10% • **Frequency Tolerance:** ±20ppm • **Input Current:** 1.5µA • **Output Voltage:** -0.4V (VOH); 0.4V (VOL) • **Output Load:** 15pF • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
		1	10	100			
32.768	631-1113-1-ND	3.77	3.09	2.74	631-1113-2-ND	1918.00	F254

FOX914B Series 3.0V SMD TCXO

Specifications: • **Supply Voltage:** 3V ±5% • **Frequency Tolerance:** ±1ppm • **Input Current:** 2mA • **Output Voltage [Minimum]:** 0.8V p-p (Clipped Sine) • **Output Load:** 10pF • **Operating Temperature:** -20°C ~ 75°C • **Storage Temperature:** -40°C ~ 85°C

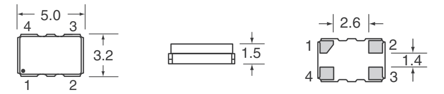

Pin Connections	
1	GND
2	GND
3	Output
4	V_{DD}

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
		1	10	50			
12.80	631-1062-1-ND	6.45	4.78	4.26	631-1062-2-ND	3431.00	FOX914B-12.8
19.20	631-1063-1-ND	6.05	4.48	4.00	—	—	FOX914B-19.2
19.44	631-1064-1-ND	5.45	4.04	3.60	—	—	FOX914B-19.44
20.00	631-1065-1-ND	5.45	4.04	3.60	631-1065-2-ND	2899.00	FOX914B-20
26.00	631-1066-1-ND	5.45	4.04	3.60	—	—	FOX914B-26

FOX924B Series 3.3V HCMOS SMD TCXO

Specifications: • **Supply Voltage:** 3.3V ±5% • **Frequency Tolerance:** ±1.5ppm • **Input Current:** 5mA • **Output Voltage:** (VOL) 10% V_{DD}, (VOH) 90% V_{DD} Minimum • **Output Load:** 15pF • **Operating Temperature:** -30°C ~ 85°C • **Storage Temperature:** -40°C ~ 85°C

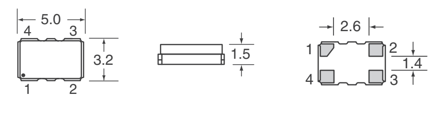

Pin Connections	
1	NC
2	GND
3	Output
4	V_{DD}

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
		1	10	50			
10.0000	631-1067-1-ND	8.38	6.20	5.53	631-1067-2-ND	4456.00	FOX924B-10
12.0000	631-1068-1-ND	8.38	6.20	5.53	631-1068-2-ND	4456.00	FOX924B-12
12.2880	631-1069-1-ND	8.38	6.20	5.53	631-1069-2-ND	4456.00	FOX924B-12.288
14.7456	631-1070-1-ND	8.38	6.20	5.53	631-1070-2-ND	4456.00	FOX924B-14.7456
16.0000	631-1071-1-ND	9.08	6.72	5.99	631-1071-2-ND	4828.00	FOX924B-16
19.4400	631-1072-1-ND	9.08	6.72	5.99	631-1072-2-ND	4828.00	FOX924B-19.44
20.0000	631-1073-1-ND	9.08	6.72	5.99	631-1073-2-ND	4828.00	FOX924B-20
25.0000	631-1074-1-ND	9.08	6.72	5.99	631-1074-2-ND	4828.00	FOX924B-25
27.0000	631-1075-1-ND	9.08	6.72	5.99	631-1075-2-ND	4828.00	FOX924B-27

CRYSTEK CORPORATION High Performance Clock Oscillators

Dimensions in mm

Fig. 1

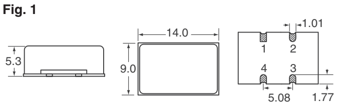

Pad	Connection
1	N/C
2	GND
3	OUT
4	Vdd

Fig. 2

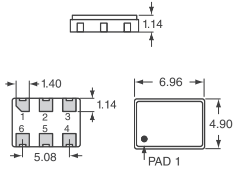

Pad	Connection
1	E/D
2	N/C
3	GND
4	OUT
5	COUT
6	Vcc

Fig. 3

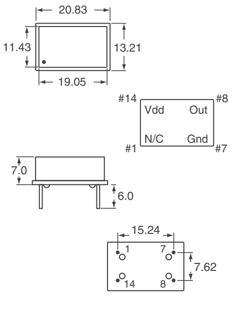

Fig.	Fre-quency (MHz)	Input Voltage	Output Type	Digi-Key Part No.	Cut Tape Price Each 1	5	10	Tape & Reel‡ Pricing 1,000	Crystek Corporation Part No.
CCHD-950 Series -162dBc/Hz Phase Noise Floor									
1	80.0000	3.3V	CMOS	744-1055-ND†	28.24	26.83	25.42	—	CCHD-950-50-80.000
	100.0000	3.3V	CMOS	744-1054-ND†	30.54	29.01	27.49	—	CCHD-950-50-100.000
CCPD-033 and CCPD-034 Series Differential LVPECL									
2	77.7600	3.3V	LVPECL	744-1036-1-ND	8.38	7.24	6.86	5030.00	CCPD-033-50-77.760
	100.0000	3.3V	LVPECL	744-1030-1-ND	8.78	7.58	7.18	5270.00	CCPD-033-50-100.000
	106.2500	3.3V	LVPECL	744-1031-1-ND	8.78	7.58	7.18	5270.00	CCPD-033-50-106.250
	125.0000	3.3V	LVPECL	744-1032-1-ND	9.39	8.11	7.69	5640.00	CCPD-033-50-125.000
	155.5200	3.3V	LVPECL	744-1033-1-ND	12.65	10.93	10.35	7590.00	CCPD-033-50-155.520
	156.2500	3.3V	LVPECL	744-1034-1-ND	12.65	10.93	10.35	7590.00	CCPD-033-50-156.250
	161.1328	3.3V	LVPECL	744-1035-1-ND	14.34	12.39	11.74	8610.00	CCPD-033-50-161.1328
	200.0000	3.3V	LVPECL	744-1041-ND†	19.60	16.93	16.04	—	CCPD-034-50-200.000
	212.5000	3.3V	LVPECL	744-1042-ND†	19.84	17.14	16.24	—	CCPD-034-50-212.500
	250.0000	3.3V	LVPECL	744-1043-ND†	33.59	29.01	27.49	—	CCPD-034-50-250.000
	311.0400	3.3V	LVPECL	744-1044-ND†	53.17	45.92	43.51	—	CCPD-034-50-311.040
	312.5000	3.3V	LVPECL	744-1253-ND† ***NEW!***	71.54	54.27	44.41	—	CCPD-034-50-312.500
CCLD-033 Series Differential LVDS									
2	100.0000	3.3V	LVDS	744-1037-1-ND	11.22	9.69	9.18	6730.00	CCLD-033-50-100.000
	125.0000	3.3V	LVDS	744-1038-1-ND	11.22	9.69	9.18	6730.00	CCLD-033-50-125.000
	133.0000	3.3V	LVDS	744-1039-1-ND	11.62	10.03	9.50	6970.00	CCLD-033-50-133.000
	156.2500	3.3V	LVDS	744-1040-1-ND	13.35	11.53	10.93	8010.00	CCLD-033-50-156.250
CCO-083 Series True SineWave									
3	100.0000	3.3V	Sinewave	744-1045-5-ND†	62.13	61.72	61.09	—	CCO-083-100.000
	200.0000	3.3V	Sinewave	744-1046-5-ND†	68.55	68.09	67.41	—	CCO-083-200.000

† Bulk ‡ For Tape and Reel part number, change 1-ND to 2-ND.
Note: For additional specifications please see the manufacturer's data sheets.

High Performance, Low Phase Noise VCXOs, VCSOs, TCXOs and OCXOs

Dimensions in mm

Fig. 1

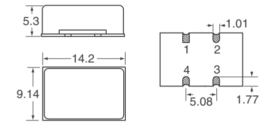

A.

Pad	Connection
1	NC or Volt Control
2	GND
3	OUT
4	Vdd

B.

Pad	Connection
1	Volt Cont.
2	GND
3	OUT
4	Vdd

C.

Pad	Connection
1	NC
2	GND
3	OUT
4	Vdd

Fig. 2

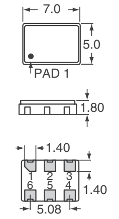

Pad	Connection
1	Volt Cont.
2	E/D
3	GND
4	OUT
5	COUT
6	Vdd

Fig. 3

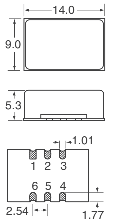

Pad	Connection
1	Volt Cont.
2	E/D
3	GND
4	OUT
5	COUT
6	Vdd

Fig. 4

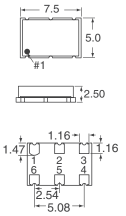

Pad	Connection
1	Volt Cont.
2	E/D
3	GND
4	OUT
5	COUT
6	Vdd

Fig. 5

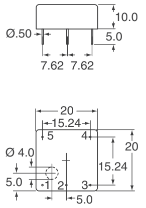

Pad	Connection
1	NC
2	RF Output
3	Supply Volt.
4	Case Ground
5	Case Ground

Fig. 6

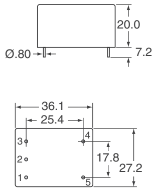

Pad	Connection
1	Control Volt.
2	No Connect
3	Supply Volt.
4	RF Output
5	Case Ground

Fig.	Frequency	Input Volt-age	Output Type	Digi-Key Part No.	Price Each 1	5	10	Crystek Corporation Part No.
CVHD-950 Series -162dBc/Hz Phase Noise Floor VCXO								
1A	54.0000MHz	3.3V	CMOS	744-1217-ND	26.80	25.46	24.12	CVHD-950-54.000
	74.1758MHz	3.3V	CMOS	744-1216-ND	27.40	26.03	24.66	CVHD-950-74.175800
	74.2500MHz	3.3V	CMOS	744-1215-ND	27.40	26.03	24.66	CVHD-950-74.250
	80.0000MHz	3.3V	CMOS	744-1214-ND	27.70	26.32	24.93	CVHD-950-80.000
	100.0000MHz	3.3V	CMOS	744-1213-ND	27.70	26.32	24.93	CVHD-950-100.000
	122.8800MHz	3.3V	CMOS	744-1271-ND ***NEW!***	50.30	47.79	47.79	CVHD-950-122.880
	125.0000MHz	3.3V	CMOS	744-1272-ND ***NEW!***	50.30	47.79	45.27	CVHD-950-125.000
CVPD-034, CVPD-940, CVPD-970 Series Differential VCXO								
2	77.7600MHz	3.3V	LVPECL	744-1218-ND	37.88	34.44	32.72	CVPD-034-50-77.76
	155.5200MHz	3.3V	LVPECL	744-1219-ND	41.71	37.92	36.02	CVPD-034-50-155.52
	156.2500MHz	3.3V	LVPECL	744-1220-ND	41.71	37.92	36.02	CVPD-034-50-156.25
3	77.7600MHz	3.3V	LVPECL	744-1223-ND	44.50	42.28	40.05	CVPD-940X-77.760
	155.5200MHz	3.3V	LVPECL	744-1221-ND	47.90	45.51	43.11	CVPD-940X-155.520
	212.5000MHz	3.3V	LVPECL	744-1222-ND	56.30	53.49	50.67	CVPD-940X-212.500
3	622.0800MHz	3.3V	LVPECL	744-1224-ND	78.24	74.33	70.42	CVPD-970X-622.080
CVCSO-914 Series High Frequency SAW SineWave VCSO								
1B	1.0000GHz	5.0V	SineWave	744-1051-ND	116.66	110.83	104.99	CVCSO-914-1000
NEW! CCSO-914X Series Ultra-Low Phase Noise SAW Oscillator NEW!								
1C	1.0000GHz	5.0V	SineWave	744-1254-ND	56.66	53.83	51.00	CCSO-914X-1000.000
CVS575 Series Voltage Controlled SAW Oscillator								
4	500.0000MHz	3.3V	LVPECL	744-1053-ND	64.46	61.24	58.01	CVS575-500.000
	622.0800MHz	3.3V	LVPECL	744-1052-ND	64.46	61.24	58.01	CVS575-622.080
CXOH20 Series TCXO								
5	10.0000MHz	5.0V	CMOS	744-1050-ND	46.16	44.62	43.08	CXOH20-BP-10.000
CO27V Series OCXO								
6	10.0000MHz	5.0V	SineWave	744-1049-ND	259.86	256.20	252.54	CO27VS05DE-02-10.000
	10.0000MHz	12.0V	SineWave	744-1048-ND	259.86	256.20	252.54	CO27VS12DE-02-10.000
	10.0000MHz	15.0V	CMOS	744-1047-ND	259.86	256.20	252.54	CO27VH15DE-02-10.000

Note: For additional specifications please see the manufacturer's data sheets.

Chipset Crystals and Oscillators

For data sheets, please visit Crystek Corporation's website to register for release of documents.

Product Type	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	5	10	Digi-Key Part No.	T & R Pricing 1,000	Crystek Corporation Part No.	Compatible Chipsets and Applications
Crystal	4.096250	744-1016-1-ND	1.64	1.56	1.44	744-1016-2-ND	570.00	017057	Atmel: U3741, T5743, T5744, 315MHz, -40°C ~ 85°C, 3mm
	4.746870	744-1001-1-ND	1.48	1.41	1.30	744-1001-2-ND	520.00	016867	Maxim: Max1470/1473
	4.906250	744-1020-1-ND	1.48	1.41	1.30	744-1020-2-ND	520.00	017126	Atmel: U3741, T5743, T5744, 315MHz, 0°C ~ 70°C, 3mm
	4.915200	744-1013-1-ND	.88	.84	.77	744-1013-2-ND	310.00	017418	Texas Instruments: TRF6903, -40°C ~ 85°C
	5.223438	744-1007-1-ND	1.68	1.60	1.47	744-1007-2-ND	590.00	016991	Maxim: MAX1470/1473, 345MHz, -40°C ~ 85°C

† Bulk

(Continued)

Chipset Crystals and Oscillators *(Cont.)*

Product Type	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	5	10	Digi-Key Part No.	T & R Pricing 1,000	Crystek Corporation Part No.	Compatible Chipsets and Applications
Crystal	6.612813	744-1002-1-ND	1.48	1.41	1.30	744-1002-2-ND	520.00	016868	Maxim: Max1470/1473
	6.764380	744-1021-1-ND	1.48	1.41	1.30	744-1021-2-ND	520.00	017128	Atmel: U3741, T5743, T5744, 433.92MHz, 0°C ~ 70°C, 3mm
	9.509375	744-1011-1-ND	1.76	1.67	1.54	744-1011-2-ND	620.00	017034	Maxim: MAX1471, 315MHz, -40°C ~ 85°C
	9.843750	744-1017-1-ND	1.68	1.60	1.47	744-1017-2-ND	590.00	017113	Atmel: T5753, 315MHz, -40°C ~ 85°C, 5mm
	9.843750	744-1009-1-ND	1.76	1.67	1.54	744-1009-2-ND	620.00	017000	Maxim: MAX1472, 315MHz, -40°C ~ 85°C
	9.843750	744-1003-1-ND	1.28	1.22	1.12	744-1003-2-ND	450.00	016875	Microchip: rfPIC12C509AG/509AF, rfHCS362G/362F, rfPIC12F675K
	13.062500	744-1004-1-ND	1.28	1.22	1.12	744-1004-2-ND	450.00	016876	Microchip: rfPIC12F675K, (ASK) 418MHz, -40°C ~ 85°C
	13.225600	744-1012-1-ND	1.76	1.67	1.54	744-1012-2-ND	620.00	017035	Maxim: MAX1471, 433.92MHz, -40°C ~ 85°C
	13.560000	744-1024-1-ND	1.12	1.06	.98	744-1024-2-ND	390.00	017196	Atmel: T5754, 433.92MHz, 0°C ~ 70°C, 5mm
	13.560000	744-1010-1-ND	1.76	1.67	1.54	744-1010-2-ND	620.00	017001	Maxim: MAX1472, 433.92MHz, -40°C ~ 85°C
	13.560000	744-1005-1-ND	1.28	1.22	1.12	744-1005-2-ND	450.00	016877	Microchip: rfPIC12C509AG/509AF, (ASK) 433.92MHz, -40°C ~ 85°C
	14.745600	744-1018-1-ND	2.72	2.58	2.38	744-1018-2-ND	950.00	017116	Texas Instruments: TRF6901/6903/4903, -40°C ~ 85°C
	19.660800	744-1019-1-ND	2.72	2.58	2.38	744-1019-2-ND	950.00	017119	Texas Instruments: TRF6901/6903/4903, -40°C ~ 85°C
	20.356250	744-1008-1-ND	1.08	1.03	.95	744-1008-2-ND	380.00	016999	Microchip: rfRXD0420, (ASK) 315MHz, -40°C ~ 85°C
	24.000000	744-1000-1-ND	.92	.87	.81	744-1000-2-ND	320.00	016808	Texas Instruments: USB Chipset
	26.451250	744-1006-1-ND	1.08	1.03	.95	744-1006-2-ND	380.00	016985	Microchip: rfRXD0420, (ASK) 433.92MHz, -40°C ~ 85°C
	26.800000	744-1014-1-ND	1.08	1.03	.95	744-1014-2-ND	380.00	017053	Microchip: rfRXD0920, (ASK) 868.3MHz, -40°C ~ 85°C
	28.259375	744-1015-1-ND	1.08	1.03	.95	744-1015-2-ND	380.00	017055	Microchip: rfRXD0920, (ASK) 915MHz, -40°C ~ 85°C
	49.152000	744-1022-1-ND	16.64	15.81	14.56	744-1022-2-ND	5820.00	017149	Texas Instruments: FireWire TSB41BA3, -40°C ~ 85°C
	49.152000	744-1023-1-ND	13.32	12.65	11.66	744-1023-2-ND	4660.00	017150	Texas Instruments: FireWire TSB41BA3, 0°C ~ 70°C
Oscillator	49.152000	744-1026-1-ND	5.00	4.75	4.38	744-1026-2-ND	1750.00	601188	Texas Instruments: FireWire TSB41BA3, -40°C ~ 85°C, 1.8V
	49.152000	744-1027-1-ND	4.68	4.45	4.10	744-1027-2-ND	1640.00	601230	Texas Instruments: FireWire TSB41BA3, 0°C ~ 70°C, 1.8V
	98.304000	744-1025-1-ND	4.64	4.41	4.06	744-1025-2-ND	1620.00	601107	Texas Instruments: DSP Radio, 0°C ~ 70°C, 3.3V
	98.304000	744-1029-1-ND	11.80	11.21	10.33	744-1029-2-ND	4130.00	601252	Texas Instruments: FireWire TSB81BA3, -40°C ~ 85°C, 1.8V
	98.304000	744-1028-1-ND	11.00	10.45	9.63	744-1028-2-ND	3850.00	601251	Texas Instruments: FireWire TSB81BA3, 0°C ~ 70°C, 1.8V
VCXO	80.000000	744-1252-ND† ***NEW!***	57.12	54.29	49.98	—	—	602019	Linear Technologies DC1216A-C
	100.000000	744-1250-ND† ***NEW!***	57.12	54.29	49.98	—	—	601964	Linear Technologies DC1216A-A
	122.880000	744-1251-ND† ***NEW!***	59.12	56.19	51.73	—	—	602017	Linear Technologies DC1216A-B

† Bulk

NEW! PRO Series (Pocket Reference Oscillator)

Crystek's PRO Series is an industry first. A complete HCMOS crystal clock oscillator has been integrated in a rugged SMA housing. Simply connect 3.3Vdc to the female SMA side and it will output a clean low jitter signal from the male SMA side. In effect, each PRO is a fixed frequency portable crystal generator. Frequency stability is ±25ppm over 0°C ~ 70°C.

Pocket Reference Oscillators are available off the shelf in many standard frequencies and are perfect for lab use.

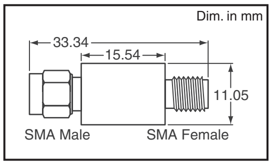

Frequency (MHz)	Digi-Key Part No.	Price Each 1	5	10	Crystek Corporation Part No.
4.000	744-1225-ND	49.61	44.95	43.86	CPRO33-4.000
5.000	744-1226-ND	49.61	44.95	43.86	CPRO33-5.000
8.000	744-1227-ND	49.61	44.95	43.86	CPRO33-8.000
10.000	744-1228-ND	49.61	44.95	43.86	CPRO33-10.000
12.000	744-1229-ND	49.61	44.95	43.86	CPRO33-12.000
16.000	744-1230-ND	49.61	44.95	43.86	CPRO33-16.000
16.384	744-1231-ND	49.61	44.95	43.86	CPRO33-16.384
20.000	744-1232-ND	49.61	44.95	43.86	CPRO33-20.000
25.000	744-1233-ND	49.61	44.95	43.86	CPRO33-25.000
32.768	744-1234-ND	49.61	44.95	43.86	CPRO33-32.768
44.736	744-1235-ND	49.61	44.95	43.86	CPRO33-44.736
45.000	744-1236-ND	49.61	44.95	43.86	CPRO33-45.000
50.000	744-1237-ND	49.61	44.95	43.86	CPRO33-50.000
62.500	744-1238-ND	49.61	44.95	43.86	CPRO33-62.500
77.760	744-1239-ND	49.61	44.95	43.86	CPRO33-77.760
80.000	744-1240-ND	49.61	44.95	43.86	CPRO33-80.000
100.000	744-1241-ND	49.61	44.95	43.86	CPRO33-100.000
106.250	744-1242-ND	49.61	44.95	43.86	CPRO33-106.250
125.000	744-1243-ND	49.61	44.95	43.86	CPRO33-125.000

Note: For additional specifications please see the manufacturer's data sheets.

NEW! SMA DC Block

Features:
- Low insertion loss • Flat frequency response
- Excellent return loss through 3GHz

Maximum Ratings:
- 16WVDC Max. • Operating Temperature: -55°C ~ 90°C • Storage Temperature: -55°C ~ 125°C

Applications:
- DC blocking • Broadband coupling • Test and measurement

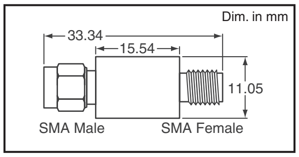

Digi-Key Part No.	Price Each 1	5	10	Crystek Corporation Part No.
744-1268-ND	18.56	16.56	16.04	CBLK-300-3

Note: For additional specifications please see the manufacturer's data sheets.

NEW! SMA 50Ω Attenuators

The Attenuator Series offers end users a rugged SMA attenuator housing for easy connection. Attenuators are available from 1dB to 20dB with one Watt power dissipation.

Tolerance matching is used to provide superior temperature tracking to individual components.

Attenuator frequency range is from DC to 3GHz.

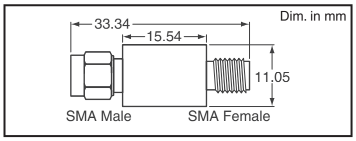

Attenuation (dB)	Digi-Key Part No.	Price Each 1	5	10	Crystek Corporation Part No.
1.0	744-1255-ND	18.56	16.56	16.04	CATTEN-01R0
1.5	744-1256-ND	18.56	16.56	16.04	CATTEN-01R5
2.0	744-1257-ND	18.56	16.56	16.04	CATTEN-02R0
3.0	744-1258-ND	18.56	16.56	16.04	CATTEN-03R0
4.0	744-1259-ND	18.56	16.56	16.04	CATTEN-04R0
5.0	744-1260-ND	18.56	16.56	16.04	CATTEN-05R0
6.0	744-1261-ND	18.56	16.56	16.04	CATTEN-06R0
7.0	744-1262-ND	18.56	16.56	16.04	CATTEN-07R0
8.0	744-1263-ND	18.56	16.56	16.04	CATTEN-08R0
9.0	744-1264-ND	18.56	16.56	16.04	CATTEN-09R0
10.0	744-1265-ND	18.56	16.56	16.04	CATTEN-0100
15.0	744-1266-ND	18.56	16.56	16.04	CATTEN-0150
20.0	744-1267-ND	18.56	16.56	16.04	CATTEN-0200

Note: For additional specifications please see the manufacturer's data sheets.

NEW! SMA RF Cables

For use with Crystek product: • PRO (Pocket Reference Oscillators) • Attenuators • DC Block

Fig. 1

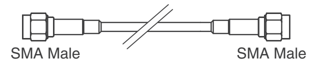

Fig. 2

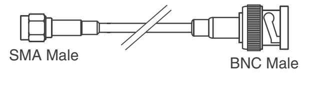

Type	Digi-Key Part No.	Price Each 1	5	10	Crystek Corporation Part No.
Fig. 1					
SMA Male/Male RG174 Cable; 6"	744-1244-ND	14.37	12.02	10.94	CCSMA-MM-6
SMA Male/Male RG174 Cable; 12"	744-1245-ND	14.53	12.16	11.07	CCSMA-MM-12
SMA Male/Male RG174 Cable; 18"	744-1246-ND	15.36	12.84	11.70	CCSMA-MM-18
SMA Male/Male RG174 Cable; 24"	744-1247-ND	15.51	12.97	11.81	CCSMA-MM-24
SMA Male/Male RG174 Cable; 36"	744-1248-ND	15.67	13.11	11.94	CCSMA-MM-36
Fig. 2					
SMA/BNC Male/Male RG174 Cable; 36"	744-1249-ND	12.70	10.99	10.01	CCBNS-MM-36

Note: For additional specifications please see the manufacturer's data sheets.

CRYSTEK CORPORATION

VCO's (Voltage Controlled Oscillators)

Dimensions in mm

Fig. 1 — 0.30" x 0.30"

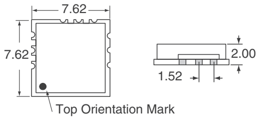

Pad	Connection
1	Vt
8	RF-OUTPUT
11	Vcc
Others	GROUND

Fig. 2 — 0.50" x 0.50"

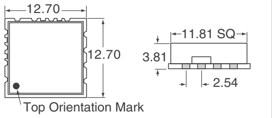

Pad	Connection
2	Vt
10	RF-OUTPUT
14	Vcc
Others	GROUND

Fig. 3 — 0.40" x 0.496"

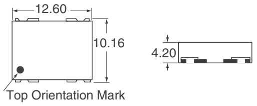

Pad	Connection
1	Vt
3	Vcc
4	RF-OUTPUT
Others	GROUND

NEW! VCO Evaluation Boards

Crystek's VCO Evaluation Boards are a turn key solution to easy stand alone testing. Evaluation boards are constructed using rigid 0.062" FR4 PCB material. Solder down connection method insures that the VCO will receive proper grounding for best testing results. Evaluation boards are available for 0.3" x 0.3" and 0.5" x 0.5" industrial standard VCO footprints.

Features:
• **Connectors:** Gold plated SMA female connectors • **Frequency range:** DC to 6GHz • **PCB:** 0.062" FR4 • **Operating temperature:** -40°C ~ 85°C

744-1269-ND (CEVAL-033) 0.30" x 0.30" VCO CVCO33**.... $92.99**
744-1270-ND (CEVAL-055) 0.50" x 0.50" VCO CVCO55**.... $92.99**

Fig.	Frequency Range (MHz)	Phase Noise @ 10kHz Typ. (dBc/Hz)	Tuning Voltage (Vdc)	Tuning Sensitivity (MHz/V)	Harmonic Suppression (dBc)	Power (dBm)	Vcc (Vdc)	Supply Current (mA)	Digi-Key Part No.	Price Each 1	5	10	Crystek Corporation Part No.
1	110 ~ 150	-110	0.0 ~ 5.0	11	-10	0 ±3	3.3 ±0.165	10	744-1056-ND	26.25	23.10	21.00	CVCO33CL-0110-0150
	125 ~ 200	-100	0.5 ~ 6.0	12	-15	6 ±3	5.0 ±0.25	30	744-1057-ND	26.25	23.10	21.00	CVCO33CL-0125-0200
	204 ~ 206	-112	1.0 ~ 4.0	11	-12	-1 ±3	5.0 ±0.25	15	744-1058-ND	26.25	23.10	21.00	CVCO33CL-0204-0206
	390 ~ 410	-105	0.5 ~ 4.5	12	-12	0 ±3	5.0 ±0.25	10	744-1059-ND	26.25	23.10	21.00	CVCO33CL-0390-0410
	415 ~ 435	-103	0.5 ~ 4.5	12	-15	3 ±3	5.0 ±0.25	15	744-1060-ND	26.75	23.54	21.40	CVCO33CL-0415-0435
	435 ~ 470	-106	0.5 ~ 5.0	15	-10	3 ±3	5.0 ±0.25	15	744-1061-ND	26.75	23.54	21.40	CVCO33CL-0435-0470
	559 ~ 561	-95	0.5 ~ 4.5	12	-15	2 ±2	5.0 ±0.25	15	744-1062-ND	26.75	23.54	21.40	CVCO33CL-0559-0561
	750 ~ 770	-103	0.5 ~ 2.5	30	-20	4.5 ±3	2.7 ±0.135	11	744-1063-ND	26.75	23.54	21.40	CVCO33CL-0750-0770
	770 ~ 870	-107	0.0 ~ 10.0	10	-10	3.5 ±1.5	5.0 ±.25	6	744-1064-ND	26.75	23.54	21.40	CVCO33CL-0770-0870
2	42 ~ 46	-116	0.5 ~ 4.5	3	-13	-1 ±2	5.0 ±0.25	8	744-1164-ND	27.63	24.31	22.10	CVCO55CL-0042-0046
	45 ~ 70	-115	0.5 ~ 10.5	4	-10	5 ±3	5.0 ±0.25	15	744-1165-ND	27.63	24.31	22.10	CVCO55CL-0045-0070
	60 ~ 110	-114	0.5 ~ 9.5	8	-10	8 ±3	5.0 ±0.25	25	744-1181-ND	28.75	25.30	23.00	CVCO55CL-0060-0110
	72 ~ 76	-110	0.3 ~ 3.0	7	-15	0 ±2	3.3 ±0.165	5	744-1182-ND	28.75	25.30	23.00	CVCO55CL-0072-0076
	140 ~ 250	-106	0.5 ~ 10.0	55	-14	3 ±2	5.0 ±0.25	15	744-1204-ND	30.38	26.73	24.30	CVCO55CW-0140-0250
	150 ~ 200	-115	0.3 ~ 4.7	16	-15	4 ±4	5.0 ±0.25	35	744-1183-ND	28.75	25.30	23.00	CVCO55CL-0150-0200
	180 ~ 200	-110	0.5 ~ 4.5	8	-10	3 ±2	5.0 ±0.25	15	744-1166-ND	27.63	24.31	22.10	CVCO55CL-0180-0200
	184 ~ 190	-110	0.0 ~ 5.0	3	-20	0 ±3	5.0 ±0.25	15	744-1167-ND	27.63	24.31	22.10	CVCO55CL-0184-0190
	200 ~ 400	-109	0.0 ~ 5.0	50	-10	3 ±3	5.0 ±0.25	15	744-1184-ND	28.75	25.30	23.00	CVCP55CL-0200-0400
	209 ~ 277	-112	0.3 ~ 4.7	20	-15	5 ±3	7.0 ±0.35	15	744-1185-ND	28.75	25.30	23.00	CVCO55CL-0209-0277
	225 ~ 425	-100	0.5 ~ 6.5	75	-15	-10 ±3	7.0 ±0.25	5	744-1168-ND	27.63	24.31	22.10	CVCO55CL-0225-0425
	250 ~ 450	-96	0.3 ~ 4.7	50	-15	0 ±3	5.0 ±0.25	12	744-1205-ND	30.38	26.73	24.30	CVCO55CW-0250-0450
	250 ~ 500	-106	0.5 ~ 19.0	75	-15	10 ±3	14.25 ±0.75	25	744-1206-ND	30.38	26.73	24.30	CVCO55CW-0250-0500
	260 ~ 285	-110	0.5 ~ 4.5	20	-15	4.75 ±3.75	4.5 ±0.25	20	744-1169-ND	27.63	24.31	22.10	CVCO55CL-0260-0285
	305 ~ 345	-111	0.5 ~ 4.5	21	-10	6.5 ±3.5	5.0 ±0.25	13	744-1186-ND	28.75	25.30	23.00	CVCO55CL-0305-0345
	350 ~ 405	-110	0.5 ~ 5.0	39	-3	7.25 ±2.75	5.0 ±0.25	15	744-1170-ND	27.63	24.31	22.10	CVCO55CL-0350-0405
	370 ~ 450	-110	0.5 ~ 4.5	35	-4	7 ±2	5.0 ±0.25	15	744-1187-ND	28.75	25.30	23.00	CVCO55CL-0370-0450
	393 ~ 428	-112	0.5 ~ 4.5	15	-12	3 ±3	5.0 ±0.25	8	744-1171-ND	27.63	24.31	22.10	CVCO55CL-0393-0428
	400 ~ 800	-105	0.0 ~ 12.0	47	-5	7 ±5	5.0 ±0.25	17	744-1071-ND	29.50	25.96	23.60	CVCO55BE-0400-0800
	400 ~ 800	-105	0.0 ~ 12.0	47	-5	7 ±5	5.0 ±0.25	17	744-1207-ND	30.38	26.73	24.30	CVCO55CW-0400-0800
	434 ~ 452	-110	1.5 ~ 3.5	18	-15	0 ±4	5.0 ±0.25	16	744-1188-ND	28.75	25.30	23.00	CVCO55CL-0434-0452
	450 ~ 470	-110	1.5 ~ 3.5	20	-15	0 ±4	5.0 ±0.25	16	744-1189-ND	28.75	25.30	23.00	CVCO55CL-0450-0470
	467 ~ 493	-110	0.5 ~ 4.5	15	-12	3 -3+2	5.0 ±0.25	15	744-1172-ND	27.63	24.31	22.10	CVCO55CL-0467-0493
	470 ~ 520	-109	0.5 ~ 4.5	24	-7	1 ±2	2.0 ±0.10	10	744-1173-ND	27.63	24.31	22.10	CVCO55CL-0470-0520
	482 ~ 498	-118	0.5 ~ 4.5	8	-10	2.5 ±2.5	5.0 ±0.25	15	744-1190-ND	28.75	25.30	23.00	CVCO55CL-0482-0498
	490 ~ 540	-108	0.5 ~ 4.5	31	-12	3 ±3	5.0 ±0.25	15	744-1174-ND	27.63	24.31	22.10	CVCO55CL-0490-0540
	500 ~ 1000	-104	0.5 ~ 18.0	60	-5	7 ±3	12.0 ±0.60	14	744-1208-ND	30.88	27.17	24.70	CVCO55CW-0500-1000
	510 ~ 770	-106	1.0 ~ 8.0	58	-5	6.5 ±4.5	9.0 ±0.45	14	744-1072-ND	29.50	25.96	23.60	CVCO55BE-0510-0770
	535 ~ 560	-110	0.2 ~ 4.7	18	-12	1.5 ±1.5	5.0 ±0.25	16	744-1191-ND	28.75	25.30	23.00	CVCO55CL-0535-0560
	575 ~ 675	-110	0.3 ~ 4.7	30	-15	2.5 ±2.5	5.0 ±0.25	15	744-1192-ND	28.75	25.30	23.00	CVCO55CL-0575-0675
	600 ~ 660	-105	0.3 ~ 4.7	22	-15	2 ±2	5.0 ±0.25	20	744-1193-ND	28.75	25.30	23.00	CVCO55CL-0600-0660
	600 ~ 880	-100	0.5 ~ 4.5	60	-10	3 ±3	5.0 ±0.25	20	744-1175-ND	28.75	25.30	23.00	CVCO55CL-0600-0880
	640 ~ 690	-100	0.5 ~ 4.5	30	-12	6.5 ±1.5	5.0 ±0.25	15	744-1176-ND	28.75	25.30	23.00	CVCO55CL-0640-0690
	680 ~ 720	-109	0.5 ~ 4.5	29	-15	2 ±2	5.0 ±0.25	25	744-1194-ND	28.75	25.30	23.00	CVCO55CL-0680-0720
	760 ~ 860	-105	0.3 ~ 4.7	40	-15	-4 ±1	2.0 ±0.10	22	744-1195-ND	28.75	25.30	23.00	CVCO55CL-0760-0860
	800 ~ 1600	-100	0.5 ~ 19.0	60	-10	6 ±2	11.5 ±0.5	15	744-1073-ND	29.50	25.96	23.60	CVCO55BE-0800-1600
	800 ~ 980	-100	0.5 ~ 5.0	75	-22	3 ±3	5.0 ±0.25	25	744-1196-ND	28.75	25.30	23.00	CVCO55CL-0800-0980
	805 ~ 900	-105	0.5 ~ 5.0	30	-15	2 ±3	5.0 ±0.25	20	744-1177-ND	28.75	25.30	23.00	CVCO55CL-0805-0900
	902 ~ 928	-115	0.5 ~ 4.5	13	-15	5 ±3	5.0 ±0.25	15	744-1197-ND	28.75	25.30	23.00	CVCO55CL-0902-0928
	902 ~ 928	-114	0.3 ~ 4.7	13	-15	10 ±2	12.0 ±0.50	25	744-1203-ND	29.38	25.85	23.50	CVCO55CT-0902-0928
	920 ~ 980	-105	1.0 ~ 5.0	30	-12	5 ±2	5.0 ±0.25	35	744-1178-ND	28.75	25.30	23.00	CVCO55CL-0920-0980
	925 ~ 970	-110	0.5 ~ 4.5	13	-15	5 ±3	5.0 ±0.25	15	744-1198-ND	28.75	25.30	23.00	CVCO55CL-0925-0970
	954 ~ 980	-100	0.5 ~ 2.5	33	-10	0 ±3	3.0 ±0.15	8	744-1179-ND	31.25	27.50	25.00	CVCO55CLS-0954-0980
	960 ~ 1200	-96	0.5 ~ 4.5	150	-10	3 ±3	3.0 ±0.15	8	744-1110-ND	29.50	25.96	23.60	CVCO55BE-0960-1200
	1000 ~ 1500	-95	0.5 ~ 4.5	150	-15	3 ±3	3.0 ±0.15	10	744-1112-ND	29.50	25.96	23.60	CVCO55BE-1000-1500
	1000 ~ 2000	-100	1.0 ~ 20.0	52	-10	5.5 ±2.5	10.0 ±0.25	15	744-1111-ND	29.50	25.96	23.60	CVCO55BE-1000-2000
	1100 ~ 1200	-104	0.0 ~ 5.0	35	-20	2 ±2	5.0 ±0.25	25	744-1199-ND	28.75	25.30	23.00	CVCO55CL-1100-1200
	1100 ~ 2100	-100	1.0 ~ 20.0	67	-10	5.5 ±2.5	10.0 ±0.25	15	744-1074-ND	29.50	25.96	23.60	CVCO55BE-1100-2100
	1165 ~ 1175	-110	0.5 ~ 4.5	10	-20	2.5 ±2.5	5.0 ±0.25	35	744-1200-ND	28.75	25.30	23.00	CVCO55CL-1165-1175
	1188 ~ 1212	-110	0.0 ~ 8.0	15	-20	8 ±2	12.0 ±0.60	20	744-1201-ND	28.75	25.30	23.00	CVCO55CL-1188-1212
	1200 ~ 2300	-100	0.5 ~ 20.0	58	-10	4 ±2	5.0 ±0.25	25	744-1075-ND	29.50	25.96	23.60	CVCO55BE-1200-2300
	1256 ~ 1264	-112	0.5 ~ 4.5	15	-17	5 ±2	5.0 ±0.25	20	744-1180-ND	29.38	25.85	23.50	CVCO55CL-1256-1264
	1350 ~ 1400	-103	0.5 ~ 4.5	25	-15	7 ±5	5.0 ±0.25	20	744-1113-ND	29.50	25.96	23.60	CVCO55BE-1350-1400
	1360 ~ 1380	-108	0.3 ~ 4.7	8	-15	6 ±2	8.0 ±0.40	30	744-1202-ND	28.75	25.30	23.00	CVCO55CL-1360-1380
	1400 ~ 1624	-102	0.3 ~ 4.7	65	-10	0 ±3	5.0 ±0.25	30	744-1076-ND	29.50	25.96	23.60	CVCO55BE-1400-1624
	1440 ~ 1670	-100	0.5 ~ 4.5	99	-13	4 ±2	5.0 ±0.25	12	744-1077-ND	29.50	25.96	23.60	CVCO55BE-1440-1670
	1480 ~ 1600	-99	0.5 ~ 4.5	65	-12	6.5 ±1.5	5.0 ±0.25	15	744-1114-ND	29.50	25.96	23.60	CVCO55BE-1480-1600
	1520 ~ 1635	-100	0.5 ~ 4.5	45	-15	2.5 ±2.5	5.0 ±0.25	35	744-1078-ND	29.50	25.96	23.60	CVCO55BE-1520-1635
	1530 ~ 2700	-87	0.5 ~ 10.0	140	-15	6.5 ±1.5	5.0 ±0.25	15	744-1115-ND	29.50	25.96	23.60	CVCO55BE-1530-2700
	1550 ~ 1650	-102	0.5 ~ 4.5	45	-15	3 ±3	5.0 ±0.25	17	744-1116-ND	29.50	25.96	23.60	CVCO55BE-1550-1650

(Continued)

VCO's (Voltage Controlled Oscillators *(Cont.)*

Fig.	Frequency Range (MHz)	Phase Noise @ 10kHz Typ. (dBc/Hz)	Tuning Voltage (Vdc)	Tuning Sensitivity (MHz/V)	Harmonic Suppression (dBc)	Power (dBm)	Vcc (Vdc)	Supply Current (mA)	Digi-Key Part No.	Price Each			Crystek Corporation Part No.
										1	5	10	
2	1550 ~ 2050	-106	0.5 ~ 15.5	36	-15	-2.5 ±2.5	8.0 ±0.40	17	744-1079-ND	29.50	25.96	23.60	CVCO55BE-1550-2050
	1550 ~ 2500	-95	0.5 ~ 9.5	115	-7	6 ±3	10.0 ±0.25	13	744-1080-ND	29.50	25.96	23.60	CVCO55BE-1550-2500
	1600 ~ 2700	-98	1.0 ~ 20.0	84	-15	5 ±5	10.0 ±0.50	22	744-1081-ND	29.50	25.96	23.60	CVCO55BE-1600-2700
	1630 ~ 1665	-102	0.5 ~ 4.5	18	-20	4 ±2	5.0 ±0.25	15	744-1117-ND	29.50	25.96	23.60	CVCO55BE-1630-1665
	1640 ~ 1840	-101	0.5 ~ 4.5	85	-15	3 ±2	4.5 ±0.25	10	744-1082-ND	29.50	25.96	23.60	CVCO55BE-1640-1840
	1650 ~ 1850	-105	0.5 ~ 10.0	25	-12	3 ±2	5.0 ±0.25	25	744-1083-ND	29.50	25.96	23.60	CVCO55BE-1650-1850
	1650 ~ 2050	-105	0 ~ 20.0	25	-15	-2.5 ±2.5	8.0 ±0.4	28	744-1084-ND	29.50	25.96	23.60	CVCO55BE-1650-2050
	1650 ~ 2150	-95	0.5 ~ 4.5	160	-15	5 ±3	5.0 ±0.25	15	744-1085-ND	29.50	25.96	23.60	CVCO55BE-1650-2150
	1658 ~ 1662	-104	0.5 ~ 2.0	20	-15	6 ±2	8.0 ±0.2	35	744-1118-ND	29.50	25.96	23.60	CVCO55BE-1658-1662
	1660 ~ 1760	-100	0.3 ~ 4.7	45	-15	2.5 ±2.5	5.0 ±0.25	35	744-1086-ND	29.50	25.96	23.60	CVCO55BE-1660-1760
	1680 ~ 1740	-103	0.5 ~ 4.5	70	-15	3 ±3	5.0 ±0.25	11	744-1119-ND	29.50	25.96	23.60	CVCO55BE-1680-1740
	1690 ~ 2062	-96	0.0 ~ 5.0	145	-22	5 ±2	5.0 ±0.25	20	744-1120-ND	29.50	25.96	23.60	CVCO55BE-1690-2062
	1750 ~ 1810	-103	0.5 ~ 4.5	70	-15	3 ±3	5.0 ±0.25	11	744-1121-ND	29.50	25.96	23.60	CVCO55BE-1750-1810
	1750 ~ 2150	-100	0.3 ~ 4.7	85	-15	0 ±3	5.0 ±0.25	25	744-1087-ND	29.50	25.96	23.60	CVCO55BE-1750-2150
	1770 ~ 1830	-105	0.3 ~ 4.7	25	-15	3 ±3	5.0 ±0.25	25	744-1088-ND	29.50	25.96	23.60	CVCO55BE-1770-1830
	1775 ~ 1845	-105	0.5 ~ 4.5	22	-15	4 ±2	5.0 ±0.25	16	744-1089-ND	29.50	25.96	23.60	CVCO55BE-1775-1845
	1785 ~ 1900	-100	0.3 ~ 4.7	45	-15	2.5 ±2.5	5.0 ±0.25	35	744-1090-ND	29.50	25.96	23.60	CVCO55BE-1785-1900
	1800 ~ 2200	-100	0.5 ~ 18.0	57	-15	-3 ±3	10.0 ±0.5	15	744-1122-ND	29.50	25.96	23.60	CVCO55BE-1800-2200
	1820 ~ 2100	-105	0.5 ~ 18.0	20	-15	0 ±3	8.0 ±0.4	30	744-1091-ND	29.50	25.96	23.60	CVCO55BE-1820-2100
	1845 ~ 1877	-106	0.5 ~ 4.0	20	-15	6 ±2	8.0 ±0.4	35	744-1092-ND	29.50	25.96	23.60	CVCO55BE-1845-1877
	1848 ~ 1852	-104	0.5 ~ 2.0	20	-15	6 ±2	8.0 ±0.2	35	744-1123-ND	29.50	25.96	23.60	CVCO55BE-1848-1852
	1896 ~ 1924	-104	0.3 ~ 4.7	18	-15	4 ±2.5	5.0 ±0.25	33	744-1093-ND	29.50	25.96	23.60	CVCO55BE-1896-1924
	1900 ~ 2762	-92	0.5 ~ 9.5	140	-7	6 ±3	10.0 ±0.25	13	744-1094-ND	29.50	25.96	23.60	CVCO55BE-1900-2762
	1930 ~ 1990	-105	0.5 ~ 4.5	70	-15	2 -2+3	5.0 ±0.25	15	744-1124-ND	29.50	25.96	23.60	CVCO55BE-1930-1990
	1930 ~ 2400	-100	0.5 ~ 18.0	40	-15	0 ±3	8.0 ±0.4	35	744-1095-ND	29.50	25.96	23.60	CVCO55BE-1930-2400
	1950 ~ 2070	-102	0.5 ~ 4.5	40	-20	4 ±2	5.0 ±0.25	18	744-1125-ND	29.50	25.96	23.60	CVCO55BE-1950-2070
	1950 ~ 2150	-96	0.5 ~ 4.5	72	-15	5 ±2	5.0 ±0.25	16	744-1126-ND	29.50	25.96	23.60	CVCO55BE-1950-2150
	2000 ~ 2800	-92	1.0 ~ 24.0	25	-15	5 ±5	5.0 ±0.25	25	744-1127-ND	29.50	25.96	23.60	CVCO55BE-2000-2800
	2050 ~ 2474	-103	0.0 ~ 16.0	30	-15	-2.5 ±2.5	8.0 ±0.4	28	744-1128-ND	30.75	27.06	24.60	CVCO55BE-2050-2474
	2060 ~ 2300	-100	0.3 ~ 4.7	65	-15	4.5 ±2.5	5.0 ±0.25	33	744-1096-ND	29.50	25.96	23.60	CVCO55BE-2060-2300
	2074 ~ 2284	-100	0.5 ~ 4.5	60	-20	5 ±2	5.0 ±0.25	27	744-1097-ND	29.50	25.96	23.60	CVCO55BE-2074-2284
	2100 ~ 2200	-98	0.5 ~ 4.5	50	-12	4 ±2	5.0 ±0.25	15	744-1129-ND	30.75	27.06	24.60	CVCO55BE-2100-2200
	2100 ~ 2300	-103	0.3 ~ 4.7	60	-18	0 ±3	5.0 ±0.25	25	744-1098-ND	29.50	25.96	23.60	CVCO55BE-2100-2300
	2110 ~ 2170	-105	0.5 ~ 4.5	70	-15	3 ±3	5.0 ±0.25	11	744-1130-ND	30.75	27.06	24.60	CVCO55BE-2110-2170
	2130 ~ 2220	-101	0.5 ~ 4.5	35	-12	0 ±2	5.0 ±0.25	20	744-1131-ND	30.75	27.06	24.60	CVCO55BE-2130-2220
	2130 ~ 2360	-103	0.5 ~ 4.5	70	-12	0 ±2	5.0 ±0.25	20	744-1132-ND	30.75	27.06	24.60	CVCO55BE-2130-2360
	2200 ~ 2570	-101	1.0 ~ 17.0	46	-15	0 ±3	5.0 ±0.25	35	744-1133-ND	30.75	27.06	24.60	CVCO55BE-2200-2570
	2250 ~ 2290	-106	0.3 ~ 4.7	20	-15	6 ±2	8.0 ±0.4	35	744-1099-ND	29.50	25.96	23.60	CVCO55BE-2250-2290
	2270 ~ 2330	-103	1.0 ~ 5.0	30	-12	5 ±2	5.0 ±0.25	35	744-1134-ND	30.75	27.06	24.60	CVCO55BE-2270-2330
	2270 ~ 3180	-85	1.0 ~ 20.0	50	-12	5 ±2	5.0 ±0.25	35	744-1135-ND	30.75	27.06	24.60	CVCO55BE-2270-3180
	2300 ~ 2360	-101	0.5 ~ 4.5	25	-12	0 ±2	5.0 ±0.25	20	744-1136-ND	30.75	27.06	24.60	CVCO55BE-2300-2360
	2300 ~ 2450	-100	0.5 ~ 4.5	56	-15	4 ±2	5.0 ±0.25	29	744-1100-ND	29.50	25.96	23.60	CVCO55BE-2300-2450
	2300 ~ 2500	-103	0.5 ~ 11.0	50	-12	6 ±4	8.0 ±0.4	29	744-1137-ND	30.75	27.06	24.60	CVCO55BE-2300-2500
	2300 ~ 2575	-102	0.5 ~ 18.0	20	-15	0 ±3	8.0 ±0.4	30	744-1101-ND	29.50	25.96	23.60	CVCO55BE-2300-2575
	2400 ~ 2670	-102	1.0 ~ 17.0	35	-15	2 ±2	5.0 ±0.25	38	744-1138-ND	30.75	27.06	24.60	CVCO55BE-2400-2670
	2425 ~ 2820	-100	0.5 ~ 18.0	28	-10	0 ±2.5	8.0 ±0.4	35	744-1139-ND	30.75	27.06	24.60	CVCO55BE-2425-2820
	2430 ~ 2585	-101	0.2 ~ 4.8	45	-16	2 ±2	5.0 ±0.25	15	744-1140-ND	30.75	27.06	24.60	CVCO55BE-2430-2585
	2475 ~ 2900	-100	0.0 ~ 16.0	30	-15	-2.5 ±2.5	8.0 ±0.4	28	744-1141-ND	30.75	27.06	24.60	CVCO55BE-2475-2900
	2495 ~ 2625	-100	0.5 ~ 4.5	59	-20	0 ±3	5.0 ±0.25	25	744-1102-ND	29.50	25.96	23.60	CVCO55BE-2495-2625
	2550 ~ 2570	-105	0.5 ~ 4.5	12	-15	4 ±2	8.0 ±0.4	30	744-1103-ND	29.50	25.96	23.60	CVCO55BE-2550-2570
	2560 ~ 2920	-102	0.0 ~ 18.0	28	-10	0 ±3	8.0 ±0.4	35	744-1142-ND	33.00	29.04	26.40	CVCO55BE-2560-2920
	2560 ~ 3200	-90	0.5 ~ 11.0	110	-20	6 ±3	10.0 ±0.5	23	744-1143-ND	33.00	29.04	26.40	CVCO55BE-2560-3200
	2600 ~ 2900	-95	0.3 ~ 4.7	87	-22	5 ±3	5.0 ±0.25	25	744-1104-ND	29.50	25.96	23.60	CVCO55BE-2600-2900
	2600 ~ 3100	-90	1.0 ~ 10.0	110	-20	6 ±3	10.0 ±0.5	23	744-1144-ND	33.00	29.04	26.40	CVCO55BE-2600-3100
	2620 ~ 2910	-100	1.0 ~ 17.0	35	-15	2 ±2	5.0 ±0.25	38	744-1145-ND	33.00	29.04	26.40	CVCO55BE-2620-2910
	2650 ~ 2700	-105	2.0 ~ 7.0	20	-15	6 ±2	8.0 ±0.4	15	744-1146-ND	33.00	29.04	26.40	CVCO55BE-2650-2700
	2650 ~ 2800	-102	0.5 ~ 4.5	40	-15	0 ±3	5.0 ±0.25	25	744-1147-ND	33.00	29.04	26.40	CVCO55BE-2650-2800
	2675 ~ 2950	-100	1.0 ~ 17.0	35	-15	2 ±2	5.0 ±0.25	38	744-1148-ND	33.00	29.04	26.40	CVCO55BE-2675-2950
	2700 ~ 3275	-95	0.0 ~ 15.0	75	-22	5 ±2	5.0 ±0.25	15	744-1149-ND	33.00	29.04	26.40	CVCO55BE-2700-3275
	2732 ~ 3120	-101	0.5 ~ 18.0	30	-10	0 ±3	8.0 ±0.4	35	744-1150-ND	33.00	29.04	26.40	CVCO55BE-2732-3120
	2865 ~ 3100	-90	0.5 ~ 4.5	110	-15	1 ±3	5.0 ±0.25	15	744-1151-ND	33.00	29.04	26.40	CVCO55BE-2865-3100
	2900 ~ 3100	-98	1.0 ~ 17.0	35	-15	2 ±2	5.0 ±.25	38	744-1152-ND	33.00	29.04	26.40	CVCO55BE-2900-3100
	2900 ~ 3273	-100	0.5 ~ 18.0	28	-10	0 ±3	8.0 ±0.4	35	744-1153-ND	33.00	29.04	26.40	CVCO55BE-2900-3273
	2900 ~ 3300	-95	0.0 ~ 16.0	30	-15	-2.5 ±2.5	8.0 ±0.4	28	744-1154-ND	33.00	29.04	26.40	CVCO55BE-2900-3300
	2974 ~ 3274	-98	0.3 ~ 4.7	100	-15	2 ±2	5.0 ±0.25	27	744-1155-ND	33.00	29.04	26.40	CVCO55BE-2974-3274
	3000 ~ 3100	-101	0.5 ~ 11.5	23	-15	5 ±3	5.0 ±0.25	17	744-1156-ND	33.75	29.70	27.00	CVCO55BE-3000-3100
	3020 ~ 3050	-98	0.3 ~ 4.7	12	-15	4 ±2	8.0 ±0.4	30	744-1105-ND	34.00	29.92	27.20	CVCO55BE-3020-3050
	3020 ~ 3265	-98	0.5 ~ 11.5	30	-15	4 ±6	6.8 ±0.34	25	744-1157-ND	34.38	30.25	27.50	CVCO55BES-3020-3265
	3025 ~ 3125	-98	0.3 ~ 4.7	34	-15	0 ±3	5.0 ±0.25	35	744-1106-ND	34.00	29.92	27.20	CVCO55BE-3025-3125
	3050 ~ 3400	-98	1.0 ~ 20.0	40	-15	2.5 ±2.5	5.0 ±0.25	25	744-1158-ND	33.75	29.70	27.00	CVCO55BE-3050-3400
	3070 ~ 3325	-98	1.0 ~ 17.0	36	-15	2.5 ±2.5	5.0 ±0.25	38	744-1159-ND	33.75	29.70	27.00	CVCO55BE-3070-3325
	3100 ~ 3350	-98	0.3 ~ 4.7	30	-15	4 ±4	5.0 ±0.25	25	744-1160-ND	33.75	29.70	27.00	CVCO55BE-3100-3350
	3130 ~ 3230	-96	0.5 ~ 4.5	40	-15	0 ±3	5.0 ±0.25	30	744-1161-ND	33.75	29.70	27.00	CVCO55BE-3130-3230
	3150 ~ 3250	-98	0.3 ~ 4.7	75	-20	4 ±4	5.0 ±0.25	35	744-1107-ND	34.00	29.92	27.20	CVCO55BE-3150-3250
	3206 ~ 3306	-97	0.5 ~ 4.5	40	-15	0 ±3	5.0 ±0.25	25	744-1162-ND	33.75	29.70	27.00	CVCO55BE-3206-3306
	3245 ~ 3500	-97	1.0 ~ 20.0	27	-15	2.5 ±2.5	5.0 ±0.25	38	744-1163-ND	33.75	29.70	27.00	CVCO55BE-3245-3500
	3350 ~ 3500	-97	0.3 ~ 4.7	45	-30	2.5 ±2	5.0 ±0.25	20	744-1108-ND	34.00	29.92	27.20	CVCO55BE-3350-3500
	3430 ~ 3480	-97	0.5 ~ 4.5	48	-30	2.5 ±2.5	5.0 ±0.25	22	744-1109-ND	34.00	29.92	27.20	CVCO55BE-3430-3480
	3600 ~ 3800	-92	0.5 ~ 4.5	100	-15	4 ±2	5.0 ±0.25	10	744-1209-ND	39.88	35.09	31.90	CVCO55BH-3600-3800
	4100 ~ 4300	-90	0.5 ~ 4.5	100	-15	4 ±2	5.0 ±0.25	15	744-1210-ND	39.88	35.09	31.90	CVCO55BH-4100-4300
	5256 ~ 5356	-86	1.0 ~ 4.0	56	-10	0 ±2	5.0 ±0.25	25	744-1211-ND	41.00	36.08	32.80	CVCO55BH-5256-5356
	5450 ~ 5550	-85	0.5 ~ 4.5	50	-10	1.5 ±1.5	5.0 ±0.25	25	744-1212-ND	41.00	36.08	32.80	CVCO55BH-5450-5550
3	100 ~ 140	-105	0.0 ~ 5.0	10	-15	3 ±3	3.0 ±0.15	15	744-1065-ND	25.75	22.66	20.60	CVCO45CL-0100-0140
	350 ~ 460	-105	0.0 ~ 5.0	10	-15	3 ±3	3.0 ±0.15	15	744-1066-ND	25.75	22.66	20.60	CVCO45CL-0350-0460
	421 ~ 441	-100	0.5 ~ 2.7	15	-15	0 ±3	3.0 ±0.15	10	744-1067-ND	25.75	22.66	20.60	CVCO45CL-0421-0441
	430 ~ 470	-104	0.0 ~ 4.5	18	-15	2 ±2	5.0 ±0.25	10	744-1068-ND	25.75	22.66	20.60	CVCO45CL-0430-0470
	795 ~ 825	-108	0.5 ~ 4.5	12	-15	0 ±3	5.0 ±0.25	15	744-1069-ND	26.88	23.65	21.50	CVCO45CL-0795-0825
	900 ~ 940	-104	0.5 ~ 4.5	28	-20	0 ±3	5.0 ±0.25	17	744-1070-ND	27.75	24.42	22.20	CVCO45CL-0900-0940

NDK SMT Crystals

NX2016AB Series

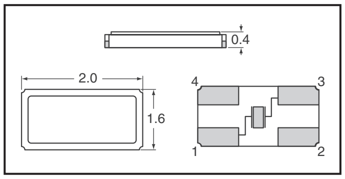

Frequency (MHz)	Load Cap. (pF)	Frequency Tolerance @ 25°C	Frequency Stability Over Operating Temp.	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing† 3,000	NDK Part No.
26.000	8.0	±20	±20	644-1118-1-ND	1.57	1.29	1.15	801.00/M	NX2016AB-26MHZ ST1
32.000				644-1119-1-ND	1.57	1.29	1.15	801.00/M	NX2016AB-32MHZ ST2
36.000				644-1120-1-ND	1.57	1.29	1.15	801.00/M	NX2016AB-36MHZ ST3
38.400				644-1121-1-ND	1.57	1.29	1.15	801.00/M	NX2016AB-38.4MHZ ST4
26.000	7.0	±10	±15	644-1122-1-ND	1.57	1.29	1.15	801.00/M	NX2016AB-26MHZ SB1
26.000		±15	±15	644-1123-1-ND	1.57	1.29	1.15	801.00/M	NX2016AB-26MHZ SB2
38.400		±10	±10	644-1124-1-ND	1.57	1.29	1.15	801.00/M	NX2016AB-38.4MHZ SW1
38.400		±20	±20	644-1125-1-ND	1.57	1.29	1.15	801.00/M	NX2016AB-38.4MHZ SWW
40.000		±10	±10	644-1126-1-ND	1.57	1.29	1.15	801.00/M	NX2016AB-40MHZ SW2
40.000		±20	±20	644-1127-1-ND	1.57	1.29	1.15	801.00/M	NX2016AB-40MHZ SW2W

Note: For applications and additional specifications, please see the manufacturer's data sheets.
† For Tape and Reel part number, change 1-ND to 2-ND.

NX2520SA Series

Electrical Characteristics: • **Frequency Tolerance (25±3°C):** ±10ppm • **Frequency Stability:** ±10ppm • **Operating Mode:** Fundamental • **Load Capacitance:** 10pf • **Operating Temperature:** -10°C ~ 60°C • **Drive Level:** 10μW

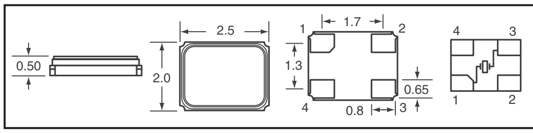

Note: Pins #2 and #4 are common to the cover. Please connect to ground or power supply

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing† 3,000	NDK Part No.
16.000000	644-1059-1-ND	1.50	1.23	1.09	763.00/M	NX2520SA-16.000000MHZ
20.000000	644-1060-1-ND	1.50	1.23	1.09	763.00/M	NX2520SA-20.000000MHZ
24.000000	644-1061-1-ND	1.50	1.23	1.09	763.00/M	NX2520SA-24.000000MHZ
24.576000	644-1062-1-ND	1.50	1.23	1.09	763.00/M	NX2520SA-24.576000MHZ
26.000000	644-1063-1-ND	1.50	1.23	1.09	763.00/M	NX2520SA-26.000000MHZ
30.000000	644-1064-1-ND	1.50	1.23	1.09	763.00/M	NX2520SA-30.000000MHZ
32.000000	644-1065-1-ND	1.50	1.23	1.09	763.00/M	NX2520SA-32.000000MHZ
40.000000	644-1066-1-ND	1.62	1.33	1.18	826.00/M	NX2520SA-40.000000MHZ
44.000000	644-1067-1-ND	1.62	1.33	1.18	826.00/M	NX2520SA-44.000000MHZ
48.000000	644-1068-1-ND	1.62	1.33	1.18	826.00/M	NX2520SA-48.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

NX3225SA Series

Electrical Characteristics: • **Frequency Tolerance (25±3°C):** ±15ppm • **Frequency Stability:** ±15ppm • **Operating Mode:** Fundamental • **Load Capacitance:** 8pf • **Operating Temperature:** -10°C ~ 75°C • **Drive Level:** 50μW

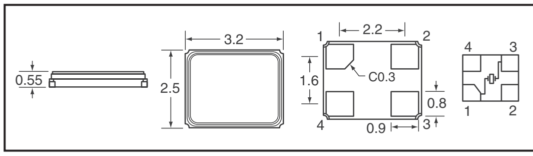

Note: Pins #2 and #4 are common to the cover. Please connect to ground or power supply

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing† 3,000	NDK Part No.
12.000000	644-1047-1-ND	.75	.62	.55	381.00/M	NX3225SA-12.000000MHZ
14.318180	644-1048-1-ND	.75	.62	.55	381.00/M	NX3225SA-14.318180MHZ
16.000000	644-1049-1-ND	.75	.62	.55	381.00/M	NX3225SA-16.000000MHZ
20.000000	644-1050-1-ND	.75	.62	.55	381.00/M	NX3225SA-20.000000MHZ
22.000000	644-1051-1-ND	.75	.62	.55	381.00/M	NX3225SA-22.000000MHZ
24.000000	644-1052-1-ND	.75	.62	.55	381.00/M	NX3225SA-24.000000MHZ
24.576000	644-1053-1-ND	.75	.62	.55	381.00/M	NX3225SA-24.576000MHZ
26.000000	644-1054-1-ND	.75	.62	.55	381.00/M	NX3225SA-26.000000MHZ
27.000000	644-1055-1-ND	.75	.62	.55	381.00/M	NX3225SA-27.000000MHZ
32.000000	644-1056-1-ND	.75	.62	.55	381.00/M	NX3225SA-32.000000MHZ
40.000000	644-1057-1-ND	.82	.68	.60	419.00/M	NX3225SA-40.000000MHZ
44.000000	644-1058-1-ND	.82	.68	.60	419.00/M	NX3225SA-44.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

NX5032GA Series

Electrical Characteristics:
• **Frequency Tolerance (25±3°C):** ±50ppm • **Frequency Stability:** ±50ppm • **Operating Mode:** Fundamental • **Load Capacitance:** 8pf • **Operating Temperature:** -10°C ~ 70°C • **Drive Level:** 50μW

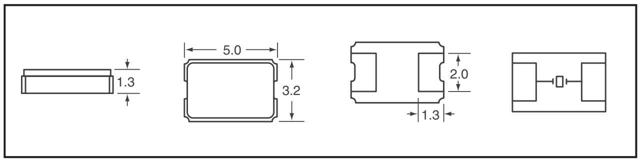

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing† 1,000	NDK Part No.
10.000000	644-1033-1-ND	.57	.47	.42	291.00	NX5032GA-10.000000MHZ
12.000000	644-1034-1-ND	.57	.47	.42	291.00	NX5032GA-12.000000MHZ
12.288000	644-1035-1-ND	.57	.47	.42	291.00	NX5032GA-12.288000MHZ
13.560000	644-1036-1-ND	.57	.47	.42	291.00	NX5032GA-13.560000MHZ
16.000000	644-1037-1-ND	.57	.47	.42	291.00	NX5032GA-16.000000MHZ
16.384000	644-1038-1-ND	.57	.47	.42	291.00	NX5032GA-16.384000MHZ
20.000000	644-1039-1-ND	.57	.47	.42	291.00	NX5032GA-20.000000MHZ
24.000000	644-1040-1-ND	.57	.47	.42	291.00	NX5032GA-24.000000MHZ
25.000000	644-1041-1-ND	.57	.47	.42	291.00	NX5032GA-25.000000MHZ
27.000000	644-1042-1-ND	.57	.47	.42	291.00	NX5032GA-27.000000MHZ
30.000000	644-1043-1-ND	.57	.47	.42	291.00	NX5032GA-30.000000MHZ
32.000000	644-1044-1-ND	.57	.47	.42	291.00	NX5032GA-32.000000MHZ
40.000000	644-1045-1-ND	.57	.47	.42	291.00	NX5032GA-40.000000MHZ
48.000000	644-1046-1-ND	.57	.47	.42	291.00	NX5032GA-48.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

NX8045GB Series

Electrical Characteristics:
• **Frequency Tolerance (25±3°C):** ±50ppm • **Frequency Stability:** ±50ppm • **Operating Mode:** Fundamental • **Load Capacitance:** 8pf • **Operating Temperature:** -10°C ~ 70°C • **Drive Level:** 50μW

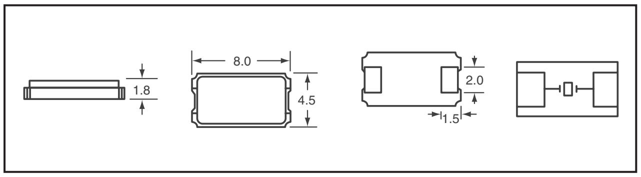

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing† 1,000	NDK Part No.
8.000000	644-1018-1-ND	.45	.37	.33	229.00	NX8045GB-8.000000MHZ
10.000000	644-1019-1-ND	.45	.37	.33	229.00	NX8045GB-10.000000MHZ
12.000000	644-1020-1-ND	.45	.37	.33	229.00	NX8045GB-12.000000MHZ
12.288000	644-1021-1-ND	.45	.37	.33	229.00	NX8045GB-12.288000MHZ
13.560000	644-1022-1-ND	.45	.37	.33	229.00	NX8045GB-13.560000MHZ
14.318180	644-1023-1-ND	.45	.37	.33	229.00	NX8045GB-14.318180MHZ
16.934400	644-1024-1-ND	.45	.37	.33	229.00	NX8045GB-16.934400MHZ
18.432000	644-1025-1-ND	.45	.37	.33	229.00	NX8045GB-18.432000MHZ
20.000000	644-1026-1-ND	.45	.37	.33	229.00	NX8045GB-20.000000MHZ
24.000000	644-1027-1-ND	.45	.37	.33	229.00	NX8045GB-24.000000MHZ
25.000000	644-1028-1-ND	.45	.37	.33	229.00	NX8045GB-25.000000MHZ
27.000000	644-1029-1-ND	.45	.37	.33	229.00	NX8045GB-27.000000MHZ
30.000000	644-1030-1-ND	.45	.37	.33	229.00	NX8045GB-30.000000MHZ
32.000000	644-1031-1-ND	.45	.37	.33	229.00	NX8045GB-32.000000MHZ
40.000000	644-1032-1-ND	.45	.37	.33	229.00	NX8045GB-40.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

NX1255GB SERIES

Electrical Characteristics:
• **Frequency Tolerance (25±3°C):** ±50ppm • **Frequency Stability:** ±50ppm • **Operating Mode:** Fundamental • **Load Capacitance:** 12pf • **Operating Temperature:** -10°C ~ 70°C • **Drive Level:** 100μW

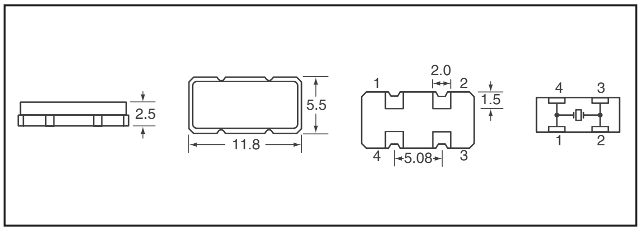

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing† 1,000	NDK Part No.
3.579545	644-1000-1-ND	.92	.76	.68	470.00	NX1255GB-3.579545MHZ
4.000000	644-1001-1-ND	.92	.76	.68	470.00	NX1255GB-4.000000MHZ
4.194304	644-1002-1-ND	.92	.76	.68	470.00	NX1255GB-4.194304MHZ
4.915200	644-1003-1-ND	.92	.76	.68	470.00	NX1255GB-4.915200MHZ
6.000000	644-1004-1-ND	.92	.76	.68	470.00	NX1255GB-6.000000MHZ
6.144000	644-1005-1-ND	.92	.76	.68	470.00	NX1255GB-6.144000MHZ
7.372800	644-1006-1-ND	.92	.76	.68	470.00	NX1255GB-7.372800MHZ
8.000000	644-1007-1-ND	.92	.76	.68	470.00	NX1255GB-8.000000MHZ
10.000000	644-1008-1-ND	.92	.76	.68	470.00	NX1255GB-10.000000MHZ
12.000000	644-1009-1-ND	.92	.76	.68	470.00	NX1255GB-12.000000MHZ
12.288000	644-1010-1-ND	.92	.76	.68	470.00	NX1255GB-12.288000MHZ
13.560000	644-1011-1-ND	.92	.76	.68	470.00	NX1255GB-13.560000MHZ
14.318180	644-1012-1-ND	.92	.76	.68	470.00	NX1255GB-14.318180MHZ
16.000000	644-1013-1-ND	.92	.76	.68	470.00	NX1255GB-16.000000MHZ
18.432000	644-1014-1-ND	.92	.76	.68	470.00	NX1255GB-18.432000MHZ
20.000000	644-1015-1-ND	.92	.76	.68	470.00	NX1255GB-20.000000MHZ
24.000000	644-1016-1-ND	.92	.76	.68	470.00	NX1255GB-24.000000MHZ
25.000000	644-1017-1-ND	.92	.76	.68	470.00	NX1255GB-25.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

2765E Series Spread Spectrum SMT Oscillators

Electrical Characteristics: • **Supply Voltage:** 3.3V ±0.3 • **Output Level:** CMOS • **Frequency Stability:** ±100ppm • **Current Consumption:** 30mA Maximum • **Current Consumption (Standby):** 30µA • **Operating Temperature:** -20°C ~ 70°C • **Rise Time/Fall Time:** 5nS Maximum • **Duty Cycle:** 40% ~ 60% at ½ VDD

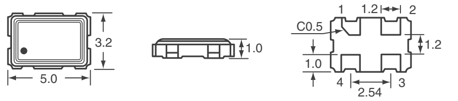

Pin	Connection
1	STAND-BY
2	GND
3	OUTPUT
4	V_{DD}

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing † 1,000	NDK Part No.
25.000000	644-1071-1-ND	3.40	3.07	2.56	1702.00	2765E-25.000000MHZ
40.000000	644-1073-1-ND	3.40	3.07	2.56	1702.00	2765E-40.000000MHZ
50.000000	644-1074-1-ND	3.68	3.32	2.76	1839.00	2765E-50.000000MHZ
66.000000	644-1075-1-ND	3.68	3.32	2.76	1839.00	2765E-66.000000MHZ
66.667000	644-1076-1-ND	3.68	3.32	2.76	1839.00	2765E-66.667000MHZ
80.000000	644-1077-1-ND	3.68	3.32	2.76	1839.00	2765E-80.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

NZ2520SA Series SMT Oscillators

Electrical Characteristics: • **Supply Voltage:** 2.5V ±0.1 • **Output Level:** CMOS • **Frequency Stability:** ±30ppm • **Current Consumption:** 10.5mA Maximum • **Current Consumption (Standby):** 10µA • **Operating Temperature:** -10°C ~ 60°C • **Rise Time/Fall Time:** 5nS Maximum • **Duty Cycle:** 45% ~ 55% at ½ VDD

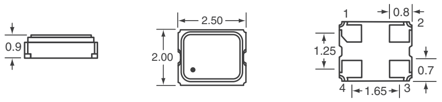

Pin	Connection
1	STAND-BY
2	GND
3	OUTPUT
4	VDD

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Qty.	Pricing	NDK Part No.
2.75	644-1078-1-ND	2.32	2.09	1.74	3,000	1158.00/M	NZ2520SA-2.750000MHZ
5.00	644-1079-1-ND	2.32	2.09	1.74	3,000	1158.00/M	NZ2520SA-5.000000MHZ
7.60	644-1080-1-ND	2.32	2.09	1.74	3,000	1158.00/M	NZ2520SA-7.600000MHZ
10.00	644-1081-1-ND	2.32	2.09	1.74	3,000	1158.00/M	NZ2520SA-10.000000MHZ
19.20	644-1114-1-ND	2.32	2.09	1.74	1,000	1198.00	NZ2520SA-19.200MHZ
20.00	644-1082-1-ND	2.32	2.09	1.74	3,000	1158.00/M	NZ2520SA-20.000000MHZ
22.00	644-1083-1-ND	2.32	2.09	1.74	3,000	1158.00/M	NZ2520SA-22.000000MHZ
25.60	644-1115-1-ND	2.40	2.16	1.80	1,000	1198.00	NZ2520SA-25.600MHZ
38.90	644-1116-1-ND	2.40	2.16	1.80	1,000	1198.00	NZ2520SA-38.900MHZ
40.00	644-1084-1-ND	2.40	2.16	1.80	3,000	1198.00/M	NZ2520SA-40.000000MHZ
41.36	644-1117-1-ND	2.40	2.16	1.80	1,000	1198.00	NZ2520SA-41.360MHZ
44.00	644-1085-1-ND	2.40	2.16	1.80	3,000	1198.00/M	NZ2520SA-44.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

NT3225SA Series SMT TCXO

Electrical Characteristics: • **Supply Voltage:** 3.0VDC • **Load:** 10KΩ//10pF • **Current Consumption:** 1.5mA Maximum • **Frequency Stability:** ±2.5ppm • **Operating Temperature:** -30°C ~ 75°C • **Output Voltage:** 0.8V(P-P), DC Coupling • **AFC:** ±9ppm ~ ±15ppm / 1.5V ±1V

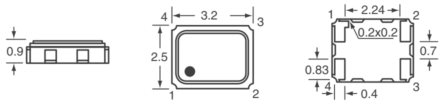

Pin	Connection
1	VCONT
2	GND
3	OUTPUT
4	VCC

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R Pricing† 2,000	NDK Part No.
13.00	644-1086-1-ND	4.05	3.79	3.25	1513.00/M	NT3225SA-13.000000MHZ
19.20	644-1087-1-ND	4.05	3.79	3.25	1513.00/M	NT3225SA-19.200000MHZ
19.68	644-1088-1-ND	4.05	3.79	3.25	1513.00/M	NT3225SA-19.680000MHZ
26.00	644-1089-1-ND	4.05	3.79	3.25	1513.00/M	NT3225SA-26.000000MHZ

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! Automotive Application Crystals

Frequency (MHz)	Load Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel Pricing† 1,000	NDK Part No.
Wide Temperature Range Automotive Applications							
12.00	8.0	644-1128-1-ND	1.37	1.28	1.10	510.00	NX3225SA 12MHZ AT-W
16.00	8.0	644-1129-1-ND	1.37	1.28	1.10	510.00	NX3225SA 16MHZ AT-W
20.00	8.0	644-1130-1-ND	1.37	1.28	1.10	510.00	NX3225SA 20MHZ AT-W
40.00	8.0	644-1131-1-ND	1.44	1.35	1.16	539.00	NX3225SA 40MHZ AT-W
8.00	8.0	644-1132-1-ND	1.64	1.53	1.32	612.00	NX5032GA 8MHZ AT-W
10.00	8.0	644-1133-1-ND	1.64	1.53	1.32	612.00	NX5032GA 10MHZ AT-W
12.00	8.0	644-1134-1-ND	1.64	1.53	1.32	612.00	NX5032GA 12MHZ AT-W
16.00	8.0	644-1135-1-ND	1.64	1.53	1.32	612.00	NX5032GA 16MHZ AT-W
20.00	8.0	644-1136-1-ND	1.64	1.53	1.32	612.00	NX5032GA 20MHZ AT-W
40.00	8.0	644-1137-1-ND	1.64	1.53	1.32	612.00	NX5032GA 40MHZ AT-W
4.00	8.0	644-1138-1-ND	1.44	1.35	1.16	539.00	NX8045GB 4MHZ AT-W
Automotive TPMS Applications							
9.84375	8.0	644-1139-1-ND	1.64	1.53	1.32	612.00	NX5032GA 9.84375MHZ AT-TPMS
13.56	8.0	644-1140-1-ND	1.64	1.53	1.32	612.00	NX5032GA 13.56MHZ AT-TPMS
9.84375	12.0	644-1141-1-ND	1.76	1.64	1.41	655.00	NX5032SD 9.84375MHZ AT-TPMS
13.56	12.0	644-1142-1-ND	1.76	1.64	1.41	655.00	NX5032SD 13.56MHZ AT-TPMS

† For Tape and Reel part number, change 1-ND to 2-ND.
Note: For additional specifications please reference the manufacturer's data sheets.

Chip Set TCXOs and Crystals

Type	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel† Qty.	Pricing	NDK Part No.	Compatible Chip Sets and Applications
TCXO	26.00	644-1113-1-ND	4.05	3.79	3.25	1,000	1513.00	NT2520SA-26.000000MHZ-A1	NXP (Philips), GSM
	19.20	644-1111-1-ND	2.97	2.44	2.17	1,000	1513.00	NT3225SA-19.200000MHZ-T3	QUALCOM, CDMA (MSM6000)
	19.20	644-1090-1-ND	2.97	2.44	2.17	1,000	1513.00	NT3225SA-19.200000MHZ-T2	NXP (Philips), TV ON MOBILE
	26.00	644-1091-1-ND	2.97	2.44	2.17	1,000	1513.00	NT3225SA-26.000000MHZ-G5	NXP (Philips), 3G UMTS/CDMA
	26.00	644-1092-1-ND	2.97	2.44	2.17	1,000	1513.00	NT3225SA-26.000000MHZ-G7	ADI, GSM
	26.00	644-1110-1-ND	2.97	2.44	2.17	1,000	1513.00	NT3225SA-26.000000MHZ-G8	ADI, GSM (AD6548)
	52.00	644-1112-1-ND	2.97	2.44	2.17	1,000	1513.00	NT3225SA-52.000000MHZ-S1	FREESCALE, GSM (PYTHON)
Crystal	16.00	644-1093-1-ND	1.62	1.33	1.18	3,000	826.00/M	NX2520SA-16.000000MHZ-W1	FREESCALE, ZIGBEE
	24.00	644-1094-1-ND	1.62	1.33	1.18	3,000	826.00/M	NX2520SA-24.000000MHZ-B8	NXP (Philips), Bluetooth
	26.00	644-1095-1-ND	1.62	1.33	1.18	3,000	826.00/M	NX2520SA-26.000000MHZ-B9	NXP (Philips), Bluetooth
	40.00	644-1096-1-ND	1.62	1.33	1.18	3,000	826.00/M	NX2520SA-40.000000MHZ-W2	STEPMIND, WLAN-WIFI
	40.00	644-1097-1-ND	1.62	1.33	1.18	3,000	826.00/M	NX2520SA-40.000000MHZ-W3	NXP (Philips), WLAN-WIFI
	16.00	644-1099-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-16.000000MHZ-B3	Cambridge Silicon Radio, Bluetooth
	16.00	644-1100-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-16.000000MHZ-T1	NXP (Philips), TV ON MOBILE
	20.00	644-1098-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-20.000000MHZ-B2	Cambridge Silicon Radio, Bluetooth
	26.00	644-1101-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-26.000000MHZ-B1	Broadcom, Bluetooth
	26.00	644-1109-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-26.000000MHZ-G2	Atheros, GSM
	26.00	644-1102-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-26.000000MHZ-G3	Atheros, GSM
	26.00	644-1103-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-26.000000MHZ-G4	INFINEON, GSM
	39.00	644-1104-1-ND	.92	.76	.67	3,000	467.00/M	NX3225SA-39.000000MHZ-B4	XEMICS-SEMTECH, Bluetooth
	13.00	644-1105-1-ND	1.04	.86	.76	3,000	531.00/M	NX4025DA-13.000000MHZ-B6	NXP (Philips), Bluetooth
	15.36	644-1106-1-ND	1.04	.86	.76	3,000	531.00/M	NX4025DA-15.360000MHZ-B7	FREESCALE, Bluetooth
	16.00	644-1107-1-ND	1.04	.86	.76	3,000	531.00/M	NX4025DA-16.000000MHZ-B5	Cambridge Silicon Radio, Bluetooth
	13.00	644-1108-1-ND	.92	.76	.67	5,000	467.00/M	NX5032SA-13.000000MHZ-G1	Atheros, GSM

† For Tape and Reel part number, change 1-ND to 2-ND. ***Note:*** For additional specifications please reference the manufacturer's data sheets.

CX49GFWB Series SMT Crystals

Features: • Crystal unit for audio-visual and office equipment • Metal package • Hermetic sealed resistance weld **Applications:** • Digital electronics • Audio-visual • Office equipment **Specifications:** • **Frequency Tolerance:** ±50ppm • **Frequency Temperature Characteristics:** ±50ppm • **Load Capacitance:** 12pF • **Operating Temperature Range:** -10°C ~ 70°C • **Storage Temperature Range:** -40°C ~ 85°C

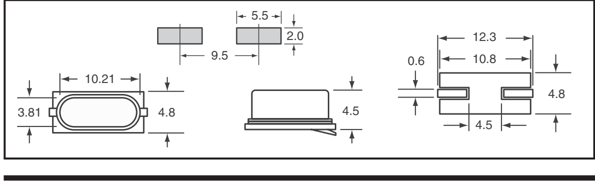

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	AVX Part No.
3.579545	478-4339-1-ND	1.00	.63	.47	478-4339-2-ND	400.00	CX49GFWB03579H0PESZZ
4.000000	478-4340-1-ND	1.00	.63	.47	478-4340-2-ND	400.00	CX49GFWB04000H0PESZZ
4.194304	478-4341-1-ND	1.00	.63	.47	478-4341-2-ND	400.00	CX49GFWB04194H0PESZZ
4.332000	478-4342-1-ND	1.00	.63	.47	478-4342-2-ND	400.00	CX49GFWB04332H0PESZZ
4.433619	478-4343-1-ND	1.00	.63	.47	478-4343-2-ND	400.00	CX49GFWB04433H0PESZZ
4.915200	478-4344-1-ND	1.00	.63	.47	478-4344-2-ND	400.00	CX49GFWB04915H0PESZZ
6.000000	478-4345-1-ND	1.00	.63	.47	478-4345-2-ND	400.00	CX49GFWB06000H0PESZZ
7.200000	478-4346-1-ND	1.00	.63	.47	478-4346-2-ND	400.00	CX49GFWB07200H0PESZZ
8.000000	478-4347-1-ND	1.00	.63	.47	478-4347-2-ND	400.00	CX49GFWB08000H0PESZZ
10.000000	478-4348-1-ND	1.00	.63	.47	478-4348-2-ND	400.00	CX49GFWB10000H0PESZZ
12.000000	478-4349-1-ND	1.00	.63	.47	478-4349-2-ND	400.00	CX49GFWB12000H0PESZZ
14.318180	478-4350-1-ND	1.00	.63	.47	478-4350-2-ND	400.00	CX49GFWB14318H0PESZZ
16.000000	478-4351-1-ND	1.00	.63	.47	478-4351-2-ND	400.00	CX49GFWB16000H0PESZZ
16.934000	478-4352-1-ND	1.00	.63	.47	478-4352-2-ND	400.00	CX49GFWB16934H0PESZZ
18.432000	478-4353-1-ND	1.00	.63	.47	478-4353-2-ND	400.00	CX49GFWB18432H0PESZZ
20.000000	478-4354-1-ND	1.00	.63	.47	478-4354-2-ND	400.00	CX49GFWB20000H0PESZZ
24.000000	478-4355-1-ND	1.00	.63	.47	478-4355-2-ND	400.00	CX49GFWB24000H0PESZZ
24.576000	478-4356-1-ND	1.00	.63	.47	478-4356-2-ND	400.00	CX49GFWB24.576H0PESZZ
27.000000	478-4357-1-ND	1.00	.63	.47	478-4357-2-ND	400.00	CX49GFWB27000H0PESZZ

AVX ST Series 32.768kHz Crystals

Fig. 1

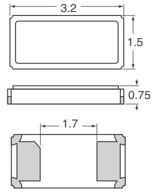

Fig. 2

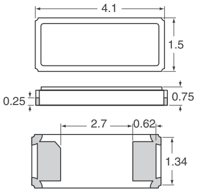

Specifications: • **Operating Temperature:** -40°C ~ 85°C • **Frequency Tolerance:** ±20 x 10^{-6} Maximum • **Frequency vs. Temperature Characteristics:** -0.04 x 10^{-6} Maximum/°C • **Maximum Level of Drive:** 0.5μW • **Recommended Level of Drive:** 0.1μW • **Insulation Resistance:** 500MΩ • **Frequency Aging:** ±3 x 10^{-6}/Year

Load Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	AVX Part No.
Fig. 1							
12.5	478-4655-1-ND	1.50	1.35	1.13	478-4655-2-ND	750.00/M	ST3215SB32768H5HPWZZ
9	478-4656-1-ND	1.50	1.35	1.13	478-4656-2-ND	750.00/M	ST3215SB32768E0HPWZZ
Fig. 2							
12.5	478-4653-1-ND	1.44	1.30	1.08	478-4653-2-ND	720.00/M	ST4115SB32768H5HPWZZ
9	478-4654-1-ND	1.44	1.30	1.08	478-4654-2-ND	720.00/M	ST4115SB32768E0HPWZZ

CX5032GB Series SMT Crystals

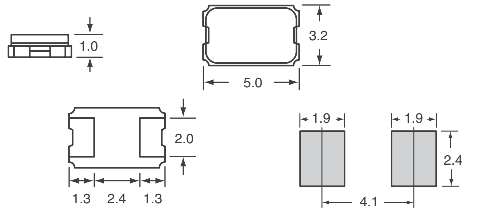

Features: • Crystal unit for audio-visual and office equipment • Small and low profile • Ceramic package • Reflow compatible
Applications: • Digital electronics • Audio-visual • Office equipment
Specifications: • **Frequency Tolerance:** ±50ppm • **Frequency Temperature Characteristics:** ±50ppm • **Load Capacitance:** 12pF • **Operating Temperature Range:** -10°C ~ 70°C • **Storage Temperature Range:** -40°C ~ 85°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	AVX Part No.
10.00000	478-4358-1-ND	1.52	.95	.71	478-4358-2-ND	608.00	CX5032GB10000H0PESZZ
12.00000	478-4359-1-ND	1.52	.95	.71	478-4359-2-ND	608.00	CX5032GB12000H0PESZZ
14.31818	478-4360-1-ND	1.52	.95	.71	478-4360-2-ND	608.00	CX5032GB14318H0PESZZ
14.74560	478-4361-1-ND	1.52	.95	.71	478-4361-2-ND	608.00	CX5032GB14745H0PESZZ
16.00000	478-4362-1-ND	1.52	.95	.71	478-4362-2-ND	608.00	CX5032GB16000H0PESZZ
20.00000	478-4363-1-ND	1.52	.95	.71	478-4363-2-ND	608.00	CX5032GB20000H0PESZZ
24.57600	478-4364-1-ND	1.52	.95	.71	478-4364-2-ND	608.00	CX5032GB24576H0PESZZ
27.00000	478-4365-1-ND	1.52	.95	.71	478-4365-2-ND	608.00	CX5032GB27000H0PESZZ

Clock Oscillators (SMD)

K30-3C Series: • Highly reliable miniature SMD ceramic package • Tri-state output inhibit • Low current consumption • **Frequency Tolerance:** ±50ppm • **Supply Current:** 25mA Maximum • **Rise/Fall Time:** 10nsec Maximum • **Load Capacitance:** 15pF Maximum • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C

K50-3C Series: • Highly reliable SMD ceramic package • Tri-state output inhibit • **Frequency Tolerance:** ±50ppm • **Supply Current:** 25mA Maximum • **Rise/Fall Time:** 10nsec Maximum • **Load Capacitance:** 15pF Maximum • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C

K50-HC Series: • Highly reliable SMD ceramic package • Tri-state output inhibit • **Frequency Tolerance:** ±50ppm • **Supply Current:** 50mA Maximum • **Rise/Fall Time:** 10nsec Maximum • **Load Capacitance:** 50pF Maximum • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C

K50H-3C Series: • Special design package for high frequency applications • Tri-state output inhibit • Lower jitter • **Frequency Tolerance:** ±50ppm • **Supply Current:** 60mA Maximum • **Rise/Fall Time:** 10nsec Maximum • **Load Capacitance:** 15pF Maximum • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C

KC2520B-C2 Series: • Miniature ceramic package • Highly reliable with seam welding • Low power supply consumption • Wide operating voltage range from 2.25V to 3.63V • **Frequency Tolerance:** ±50ppm • **Supply Current:** 5mA Maximum • **Rise/Fall Time:** 5nS • **Load Capacitance:** 15pF • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C

KC3225A-C3 Series: • Miniature ceramic package • Highly reliable with seam welding • CMOS output • **Frequency Tolerance:** ±50ppm • **Supply Current:** 25mA • **Rise/Fall Time:** 3nS • **Load Capacitance:** 15pF • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C

Fig. 1

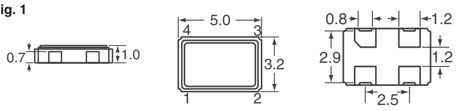

Fig. 2

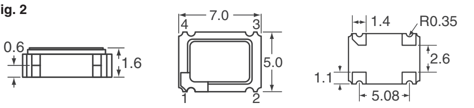

Fig. 3

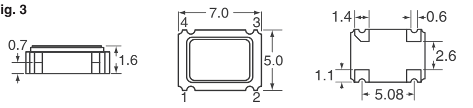

Fig. 4

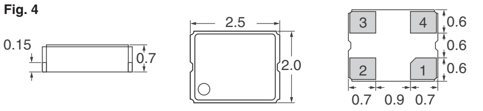

Fig. 5

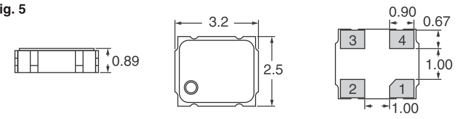

Fig. A

Enable/Disable Function	
Pad #1	Pad #3
"H" or Open	Oscillation
"L"	High Impedance or Oscillation Stop (K50-HC Series does not include Oscillation Stop)

Pad Connection	
1	Control
2	Case GND
3	Output
4	Vcc

Fig. B

Enable/Disable Function	
Pad 1	Pad 3 (Output)
Open	Active
"H" Level	Active
"L" Level	High Z (No Oscillation)

Pad Connection	
1	Enable/Disable
2	Case GND
3	Output
4	Vcc

Fig.	Frequency (MHz)	Supply Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Tape and Reel † Qty.	Pricing	AVX Part No.
K30-3C Series										
1A	14.31818	3.3	478-2094-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C14.31818C30E00
	16.00000	3.3	478-2095-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C16.0000C30E00
	20.00000	3.3	478-2096-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C20.0000C30E00
	24.57600	3.3	478-2097-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C24.5760C30E00
	25.00000	3.3	478-2098-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C25.0000C30E00
	27.00000	3.3	478-2099-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C27.0000C30E00
	29.49890	3.3	478-2100-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C29.4989C30E00
	40.00000	3.3	478-2101-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C40.0000C30E00
	50.00000	3.3	478-2102-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C50.0000C30E00
	60.00000	3.3	478-2103-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C60.0000C30E00
	64.00000	3.3	478-2104-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C64.0000C30E00
	66.66670	3.3	478-2105-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	KC5032C66.6667C30E00
K50-3C Series										
2A	14.31818	3.3	478-2084-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE14.31818MR
	16.00000	3.3	478-2085-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE16.0000MR
	24.57600	3.3	478-2086-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE24.5760MR
	25.00000	3.3	478-2087-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE25.0000MR
	29.49890	3.3	478-2088-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE29.4989MR
	40.00000	3.3	478-2089-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE40.0000MR
	50.00000	3.3	478-2090-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE50.0000MR
	66.66670	3.3	478-2091-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-3C0SE66.6667MR
K50-HC Series										
2A	1.84320	5.0	478-2066-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE1.8432MR
	3.68640	5.0	478-2067-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE3.6864MR
	8.00000	5.0	478-2068-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE8.0000MR
	14.31818	5.0	478-2069-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE14.31818MR
	16.00000	5.0	478-2071-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE16.0000MR
	20.00000	5.0	478-2072-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE20.0000MR
	24.00000	5.0	478-2073-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE24.0000MR
	24.57600	5.0	478-2074-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE24.5760MR
	25.00000	5.0	478-2075-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE25.0000MR
	27.00000	5.0	478-2076-1-ND	5.25	4.73	3.94	3.15	1,000	2625.00	K50-HC0CSE27.0000MR
	28.63630	5.0	478-2077-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE28.6363MR
	29.49890	5.0	478-2078-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE29.4989MR
	40.00000	5.0	478-2079-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE40.0000MR
	48.00000	5.0	478-2080-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE48.0000MR
	49.15200	5.0	478-2081-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE49.1520MR
	50.00000	5.0	478-2082-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE50.0000MR
	66.66670	5.0	478-2083-1-ND	3.00	2.70	2.25	1.80	1,000	1500.00	K50-HC0CSE66.6667MR
K50H-3C Series										
3A	106.25000	3.3	478-2092-1-ND	6.00	5.40	4.50	3.60	1,000	3000.00	K50H-3C0-SE106.250MR
	125.00000	3.3	478-2093-1-ND	6.00	5.40	4.50	3.60	1,000	3000.00	K50H-3C0-SE125.000MR
KC2520B-C2 Series										
4B	4.09600	2.5/3.3	478-4585-1-ND	4.20	3.78	3.15	2.52	2,000	2100.00/M	KC2520B4.09600C2GE00
	7.37280	2.5/3.3	478-4586-1-ND	4.20	3.78	3.15	2.52	2,000	2100.00/M	KC2520B7.37280C2GE00
	25.00000	2.5/3.3	478-4587-1-ND	4.20	3.78	3.15	2.52	2,000	2100.00/M	KC2520B25.0000C2GE00
	27.00000	2.5/3.3	478-4588-1-ND	4.20	3.78	3.15	2.52	2,000	2100.00/M	KC2520B27.0000C2GE00
	33.33330	2.5/3.3	478-4589-1-ND	4.20	3.78	3.15	2.52	2,000	2100.00/M	KC2520B33.3333C2GE00
	48.00000	2.5/3.3	478-4590-1-ND	4.20	3.78	3.15	2.52	2,000	2100.00/M	KC2520B48.0000C2GE00
KC3225A-C3 Series										
5B	100.00000	3.3	478-4591-1-ND	4.35	3.92	3.27	2.61	2,000	2175.00/M	KC3225A100.000C30E00
	106.25000	3.3	478-4592-1-ND	4.35	3.92	3.27	2.61	2,000	2175.00/M	KC3225A106.250C30E00
	125.00000	3.3	478-4593-1-ND	4.35	3.92	3.27	2.61	2,000	2175.00/M	KC3225A125.000C30E00

† For Tape and Reel part number, change 1-ND to 2-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX NEW! KC2520 Series SMT Oscillators

Features: • Miniature ceramic package • Highly reliable with seam welding • CMOS output • Supply Voltage Vcc: 1.8V/2.5V/3.3V • Wide Operating Voltage Range 1.62V ~ 3.63V **Specifications:** • Operating Temp. Range: -10°C ~ 70°C • Max. Current Consumption: 3.5mA (14.3182 ~ 24MHz), 5mA (24.5760 ~ 27MHz), 6mA (48MHz) • Stand-by Current: 10µA • Rise/Fall Time: 5nS • Output Load: 15pF

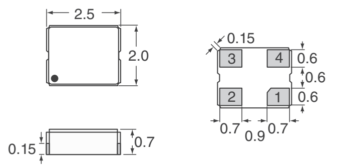

Pad Connections	
1	Enable/Disable
2	Case GND
3	Output
4	Vcc

Enable/Disable Function	
Pad1	Pad3 (Output)
Open	Active
"H" Level	Active
"L" Level	High Z (No Oscillation)

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	AVX Part No.
14.3182	478-4777-1-ND	3.30	2.97	2.48	478-4777-2-ND	1650.00/M	KC2520B14.3182C10E00
24.0000	478-4778-1-ND	3.30	2.97	2.48	478-4778-2-ND	1650.00/M	KC2520B24.0000C10E00
24.5760	478-4779-1-ND	3.30	2.97	2.48	478-4779-2-ND	1650.00/M	KC2520B24.5760C10E00
25.0000	478-4780-1-ND	3.30	2.97	2.48	478-4780-2-ND	1650.00/M	KC2520B25.0000C10E00
27.0000	478-4781-1-ND	3.30	2.97	2.48	478-4781-2-ND	1650.00/M	KC2520B27.0000C10E00
48.0000	478-4782-1-ND	3.30	2.97	2.48	478-4782-2-ND	1650.00/M	KC2520B48.0000C10E00

NEW! KC3225 Series SMT Oscillators

Features: • Miniature ceramic package • Highly reliable with seam welding • CMOS output • Supply Voltage Vcc: 3.3V **Specifications:** • Operating Temperature Range: -10°C ~ 70°C • Max. Current Consumption: 6mA (12 ~ 25MHz, 8mA (27 ~ 50MHz), 12mA (54MHz), 20mA (72 ~ 75MHz) • Stand-by Current: 10µA • Rise/Fall Time: 5ns (12 ~ 54MHz), 3nS (72 ~ 75MHz) • Output Load: 15pF

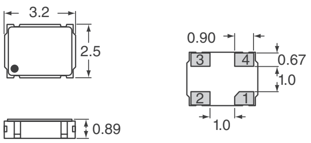

Pad Connections	
1	Enable/Disable
2	Case GND
3	Output
4	Vcc

Enable/Disable Function	
Pad1	Pad3 (Output)
Open	Active
"H" Level	Active
"L" Level	High Z (No Oscillation)

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	AVX Part No.
12.0000	478-4783-1-ND	2.97	2.68	2.23	478-4783-2-ND	1485.00/M	KC3225A12.0000C30E00
14.3182	478-4784-1-ND	2.97	2.68	2.23	478-4784-2-ND	1485.00/M	KC3225A14.3182C30E00
24.5760	478-4785-1-ND	2.97	2.68	2.23	478-4785-2-ND	1485.00/M	KC3225A24.5760C30E00
25.0000	478-4786-1-ND	2.97	2.68	2.23	478-4786-2-ND	1485.00/M	KC3225A25.0000C30E00
27.0000	478-4787-1-ND	2.97	2.68	2.23	478-4787-2-ND	1485.00/M	KC3225A27.0000C30E00
30.0000	478-4788-1-ND	2.97	2.68	2.23	478-4788-2-ND	1485.00/M	KC3225A30.0000C30E00
40.0000	478-4789-1-ND	2.97	2.68	2.23	478-4789-2-ND	1485.00/M	KC3225A40.0000C30E00
48.0000	478-4790-1-ND	2.97	2.68	2.23	478-4790-2-ND	1485.00/M	KC3225A48.0000C30E00
49.1520	478-4791-1-ND	2.97	2.68	2.23	478-4791-2-ND	1485.00/M	KC3225A49.1520C30E00
50.0000	478-4792-1-ND	2.97	2.68	2.23	478-4792-2-ND	1485.00/M	KC3225A50.0000C30E00
54.0000	478-4793-1-ND	3.45	3.11	2.59	478-4793-2-ND	1725.00/M	KC3225A54.0000C30E00
72.0000	478-4794-1-ND	3.45	3.11	2.59	478-4794-2-ND	1725.00/M	KC3225A72.0000C30E00
75.0000	478-4795-1-ND	3.45	3.11	2.59	478-4795-2-ND	1725.00/M	KC3225A75.0000C30E00

NEW! KC5032 Series SMT Oscillators

Features: • Miniature ceramic package • Highly reliable with seam welding • CMOS output • Supply Voltage Vcc: 3.3V
Specifications: • Operating Temp. Range: -10°C ~ 70°C • Max. Current Consumption: 35mA (75 ~ 100MHz), 45mA (106.25 ~ 125MHz), 60mA (150MHz) • Stand-by Current: 10µA • Rise/Fall Time: 5nS (75 ~100MHz), 2.5nS (106.25 ~150MHz) • Output Load: 15pF

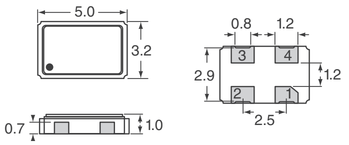

Pad Connections	
1	Enable/Disable
2	Case GND
3	Output
4	Vcc

Enable/Disable Function	
Pad1	Pad3 (Output)
Open	Active
"H" Level	Active
"L" Level	High Z (No Oscillation)

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	AVX Part No.
75.0000	478-4796-1-ND	2.76	2.49	2.07	478-4796-2-ND	1380.00	KC5032C75.0000C30E00
100.000	478-4797-1-ND	4.50	4.05	3.38	478-4797-2-ND	2250.00	KC5032C100.000C30E00
106.250	478-4798-1-ND	4.50	4.05	3.38	478-4798-2-ND	2250.00	KC5032C106.250C30E00
125.000	478-4799-1-ND	4.50	4.05	3.38	478-4799-2-ND	2250.00	KC5032C125.000C30E00
150.000	478-4800-1-ND	13.80	12.42	10.35	478-4800-2-ND	6900.00	KC5032C150.000C30E00

NEW! KC7050A Series SMT Oscillators

Features: • Miniature ceramic package • Highly reliable with seam welding • CMOS output • Supply Voltage Vcc: 3.3V
Specifications: • Operating Temp. Range: -10°C ~ 70°C • Max. Current Consumption: 35mA (75 ~ 100MHz), 45mA (106.25 ~ 125MHz), 60mA (150MHz) • Stand-by Current: 10µA • Rise/Fall Time: 5nS (75 ~100MHz), 2.5nS (106.25 ~150MHz) • Output Load: 15pF

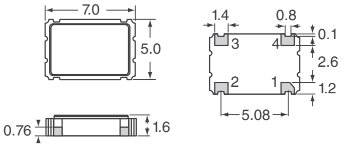

Pad Connections	
1	Enable/Disable
2	Case GND
3	Output
4	Vcc

Enable/Disable Function	
Pad1	Pad3 (Output)
Open	Active
"H" Level	Active
"L" Level	High Z (No Oscillation)

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	AVX Part No.
75.0000	478-4801-1-ND	2.76	2.49	2.07	478-4801-2-ND	1380.00	KC7050A75.0000C30E00
100.000	478-4802-1-ND	4.50	4.05	3.38	478-4802-2-ND	2250.00	KC7050A100.000C30E00
106.250	478-4803-1-ND	4.50	4.05	3.38	478-4803-2-ND	2250.00	KC7050A106.250C30E00
125.000	478-4804-1-ND	4.50	4.05	3.38	478-4804-2-ND	2250.00	KC7050A125.000C30E00
150.000	478-4805-1-ND	13.80	12.42	10.35	478-4805-2-ND	6900.00	KC7050A150.000C30E00

NEW! KC7050P Series LVDS and PECL SMT Oscillators

Features: • Miniature ceramic package • Highly reliable with seam welding • Supply Voltage Vcc: 3.3V **Specifications:** • Operating Temperature Range: 0°C ~ 70°C • Max. Current Consumption: 70mA (LVDS), 90mA (PECL) • Stand-by Current: 30µA • Rise/Fall Time: 0.6ns • Output Load: 100Ω (LVDS), 50Ω (PECL)

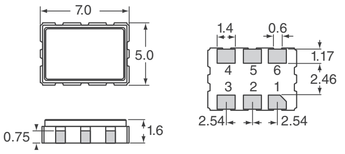

Pad Connections			
1	Enable /Disable	4	Output
		5	Complementary Output
2	NC		
3	Case GND	6	Vcc

Enable/Disable Function	
Pad1	Pad4/Pad5 (Output)
Open	Active
"H" Level	Active
"L" Level	High Z (No Oscillation)

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	AVX Part No.
				LVDS			
125.000	478-4806-1-ND	17.40	15.66	13.05	478-4806-2-ND	8700.00	KC7050P125.000L30E00
150.000	478-4807-1-ND	20.40	18.36	15.30	478-4807-2-ND	10200.00	KC7050P150.000L30E00
155.520	478-4808-1-ND	20.40	18.36	15.30	478-4808-2-ND	10200.00	KC7050P155.520L30E00
156.250	478-4809-1-ND	20.40	18.36	15.30	478-4809-2-ND	10200.00	KC7050P156.250L30E00
				LV-PECL			
100.000	478-4810-1-ND	17.40	15.66	13.05	478-4810-2-ND	8700.00	KC7050P100.000P30E00
106.250	478-4811-1-ND	17.40	15.66	13.05	478-4811-2-ND	8700.00	KC7050P106.250P30E00
125.000	478-4812-1-ND	17.40	15.66	13.05	478-4812-2-ND	8700.00	KC7050P125.000P30E00
155.520	478-4813-1-ND	20.40	18.36	15.30	478-4813-2-ND	10200.00	KC7050P155.520P30E00
156.250	478-4814-1-ND	20.40	18.36	15.30	478-4814-2-ND	10200.00	KC7050P156.250P30E00

NEW! Chipset Crystals and TCXO's

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	AVX Part No.	IC Manufacturer and Application
				Chipset Crystals				
16.000	478-4815-1-ND	3.20	2.00	1.48	1,000	1280.00	CX3225SB16000E0FPZ25	Freescale Zigbee
24.000	478-4820-1-ND	4.00	2.50	1.85	2,000	1600.00/M	CX2520SB24000D0PESZZ	BeCeem WiMax
40.000	478-4816-1-ND	3.20	2.00	1.48	1,000	1280.00	CX-96F-040.000-E0107	Atheros WiFi
40.000	478-4817-1-ND	3.20	2.00	1.48	1,000	1280.00	CX101F-040.000-H0445	Atheros WiFi
40.000	478-4818-1-ND	4.00	2.50	1.85	2,000	1600.00/M	CX2520SB40000H0DZF08	Atheros WiFi
40.000	478-4819-1-ND	4.00	2.50	1.85	2,000	1600.00/M	CX2520SB40000H0WZK06	BeCeem WiMax

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel Pricing† 1,000	AVX Part No.	IC Manufacturer and Application
			TCXO's				
40.000	478-4821-1-ND	4.50	4.05	3.38	2250.00	KT2520Y40000ECV28TBA	BeCeem WiMax
40.000	478-4822-1-ND	4.50	4.05	3.38	2250.00	KT3225R40000ECV28TBA	BeCeem WiMax
27.456	478-4823-1-ND	5.40	4.86	4.05	2700.00	KT3225F27456ZAW28TA0	E-Ride GPS
26.000	478-4824-1-ND	5.40	4.86	4.05	2700.00	KT3225R26000ZAW28TMA	E-Ride GPS
16.369	478-4825-1-ND	5.40	4.86	4.05	2700.00	KT2520Y16369ACW28TMA	SiRF GPS
16.369	478-4826-1-ND	5.40	4.86	4.05	2700.00	KT3225F16369ACW28TA0	SiRF GPS

† For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ECS INC. INTERNATIONAL Monolithic Crystal Filters

Fig.	Center Freq. (MHz)	Pass-band (kHz)	No. of Poles	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	ECS Part No.
				SMD						
1	21.4	7.5	2	X715CT-ND	8.10	7.29	6.08	500	2025.00	ECS-96SMF21A7.5
	21.4	15	2	X713CT-ND	7.31	6.08	4.84	1,000	3375.00	ECS-96SMF21A15
	21.4	20	2	X716CT-ND	8.10	7.29	6.08	500	2025.00	ECS-96SMF21A20
	21.4	30	2	X717CT-ND	8.31	7.48	6.24	500	2077.50	ECS-96SMF21A30
	45	30	2	X714CT-ND	10.56	8.78	6.99	1,000	4875.00	ECS-96SMF45A30
	45	7.5	4	X718CT-ND	27.99	25.20	21.00	500	6997.50	ECS-75SMF45A7.5B
	45	30	4	X719CT-ND	27.99	25.20	21.00	500	6997.50	ECS-75SMF45A30B
2	45	15	2	X720CT-ND	21.00	18.90	15.75	500	5250.00	ECS-38SMF45A15
	45	30	2	X721CT-ND	21.00	18.90	15.75	500	5250.00	ECS-38SMF45A30
				Through-Hole						
3	10.7	7.5	2	X701-ND‡	5.20	4.32	3.44	—	—	ECS-10.7-7.5A
	10.7	7.5	4	X702-ND‡§	12.03	9.99	7.96	—	—	ECS-10.7-7.5B
	10.7	15	2	X703-ND‡	3.09	2.57	2.05	—	—	ECS-10.7-15A
	10.7	15	4	X704-ND‡§	6.34	5.27	4.20	—	—	ECS-10.7-15B
	10.7	30	2	X705-ND‡	4.23	3.51	2.80	—	—	ECS-10.7-30A
	10.7	30	4	X706-ND‡§	8.78	7.29	5.81	—	—	ECS-10.7-30B
4	21.4	7.5	2	X707-ND‡	4.39	3.65	2.91	—	—	ECS-21K-7.5A
	21.4	7.5	4	X708-ND‡§	10.24	8.51	6.78	—	—	ECS-21K-7.5B
	21.4	15	2	X709-ND‡	4.39	3.65	2.91	—	—	ECS-21K-15A
	21.4	15	4	X710-ND‡§	10.24	8.51	6.78	—	—	ECS-21K-15B
	21.4	30	2	X711-ND‡	4.39	3.65	2.91	—	—	ECS-21K-30A
	21.4	30	4	X712-ND‡§	10.24	8.51	6.78	—	—	ECS-21K-30B

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Bulk
§ Through hole 4 pole filters are packaged in matched pairs.

Fig. 1

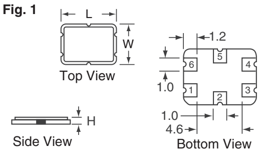

Dimensions	L	W	H
ECS-96SMF	7.0	5.0	1.5
ECS-75SMF	7.0	5.0	0.8

2-Pole Pad Connections	
1	In/Out
2	Ground
3	Ground
4	Out/In
5	Ground
6	Ground

4-Pole Pad Connections	
1	Ground
2	Zc
3	Out/In
4	Ground
5	Zc
6	In/Out

Fig. 2

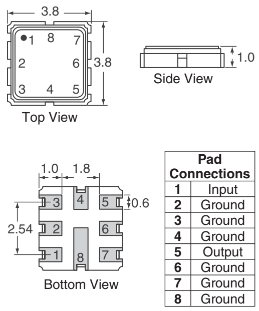

Pad Connections	
1	Input
2	Ground
3	Ground
4	Ground
5	Output
6	Ground
7	Ground
8	Ground

Fig. 3

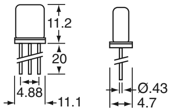

Fig. 4

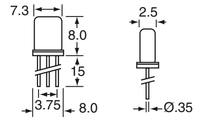

Ceramic Resonators — Surface Mount

CR-2 Series: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C ~ 80°C, ±0.3% • Aging for Ten Years: ±0.5% • Built-In Capacitance CR-2B: 10.0 ~ 12.0MHz 30pF, 16.0 ~ 20.0MHz 15pF ±20%
HFR Series: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20° ~ 80°C; 20.0 ~ 30.0MHz ±0.4%; 40.0 ~ 50.0MHz ±0.3% • Aging for Ten Years: ±0.3% • Built-In Capacitance HFR-B: 8pF ±20%
SR1 Series: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C ~ 80°C, ±0.3% • Aging for Ten Years: ±0.3% • Built-In Capacitance SR1-B: 30pF ±20%

Fig.	Series	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	ECS Part No.
1	ECS-CR2-A	10.00	XC1102CT-ND	.51	.46	.39	1,000	255.00	ECS-CR2-10.00-A-TR
		16.00	XC1104CT-ND	.51	.46	.39	1,000	255.00	ECS-CR2-16.00-A-TR
		20.00	XC1105CT-ND	.51	.46	.39	1,000	255.00	ECS-CR2-20.00-A-TR
2	ECS-CR2-B	10.00	XC1106CT-ND	.57	.52	.43	1,000	285.00	ECS-CR2-10.00-B-TR
		16.00	XC1108CT-ND	.57	.52	.43	1,000	285.00	ECS-CR2-16.00-B-TR
		20.00	XC1109CT-ND	.57	.52	.43	1,000	285.00	ECS-CR2-20.00-B-TR
	ECS-HFR-B	30.00	XC1098CT-ND	.57	.52	.43	1,000	285.00	ECS-HFR-30.00-B-TR
		40.00	XC1099CT-ND	.57	.52	.43	1,000	285.00	ECS-HFR-40.00-B-TR
3	ECS-SR1-A	3.58	X932CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-3.58-A-TR
		4.00	X933CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-4.00-A-TR
		4.19	X934CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-4.19-A-TR
		6.00	X935CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-6.00-A-TR
		8.00	X936CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-8.00-A-TR
4	ECS-SR1-B	3.58	X927CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-3.58-B-TR
		4.00	X928CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-4.00-B-TR
		4.19	X929CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-4.19-B-TR
		6.00	X930CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-6.00-B-TR
		8.00	X931CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-8.00-B-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

Dimensions			
Series	A	B	C
CR-2	3.1	3.7	1.2
HFR	2.0	2.5	1.0
SR1 A	4.0	7.5	1.8
SR1 B	4.0	7.5	2.2

Fig. 1

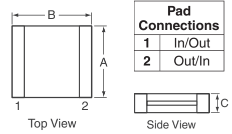

Pad Connections	
1	In/Out
2	Out/In

Fig. 2

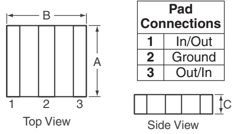

Pad Connections	
1	In/Out
2	Ground
3	Out/In

Fig. 3

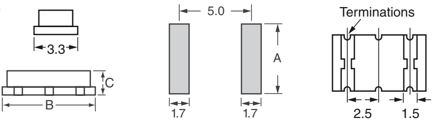

Fig. 4

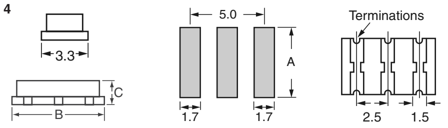

Ceramic Resonators — Through Hole

Fig.	Model/Series	Frequency	Digi-Key Part No.	Price Each 1	10	100	ECS Part No.
1	ZTB	200kHz	X919-ND	.84	.70	.56	ZTB200
		400kHz	X920-ND	.68	.57	.45	ZTB400P
		455kHz	X921-ND	.68	.57	.45	ZTB455E
		500kHz	X922-ND	.68	.57	.45	ZTB500E
		540kHz	X923-ND	.68	.57	.45	ZTB540P
		640kHz	X924-ND	.68	.57	.45	ZTB640P
		800kHz	X925-ND	.68	.57	.45	ZTB800J
		1,000kHz	X926-ND	.68	.57	.45	ZTB1000J
2	ZTT	3.58MHz	X901-ND	.54	.45	.36	ZTT-3.58MG
		3.68MHz	XC1017-ND	.50	.45	.36	ZTT-3.68MG
		4MHz	X902-ND	.54	.45	.36	ZTT-4.00MG
		4.19MHz	X903-ND	.54	.45	.36	ZTT-4.19MG
		6MHz	X904-ND	.54	.45	.36	ZTT-6.00MT
		8MHz	X905-ND	.54	.45	.36	ZTT-8.00MT
		10MHz	X906-ND	.54	.45	.36	ZTT-10.00MT
		12MHz	X907-ND	.54	.45	.36	ZTT-12.00MT
		16MHz	X908-ND	.54	.45	.36	ZTT-16.00MX
		20MHz	X909-ND	.54	.45	.36	ZTT-20.00MX
3	ZTA	6MHz	X913-ND	.49	.41	.33	ZTA-6.00MT
		8MHz	X914-ND	.49	.41	.33	ZTA-8.00MT
		10MHz	X915-ND	.49	.41	.33	ZTA-10.00MT
		12MHz	X916-ND	.49	.41	.33	ZTA-12.00MT
		16MHz	X917-ND	.49	.41	.33	ZTA-16.00MX
		20MHz	X918-ND	.49	.41	.33	ZTA-20.00MX
4	ZTA	3.58MHz	X910-ND	.49	.41	.33	ZTA-3.58MG
		4MHz	X911-ND	.49	.41	.33	ZTA-4.00MG
		4.19MHz	X912-ND	.49	.41	.33	ZTA-4.19MG

ZTT Series with Built-In Load Capacitance: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C ~ 80°C, ±0.3% • Aging for Ten Years: ±0.3% • Built-in Capacitance: 30pf ±20%
ZTA and ZTB Series: • Frequency Accuracy: ±0.5% • Stability in Temperature: -20°C ~ 80°C, ±0.3% • Aging for Ten Years: ±0.5% • Operating Temperature: -20°C ~ 80°C

Fig. 1

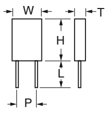

Freq. Range	Dimensions W	T	H	P	L
200	13.5	3.8	14.7	10	8.0
400	7.9	3.6	9.3	5.0	5.0
455~640	7.0	3.5	9.0	5.0	5.0
800~1,000	5.2	2.8	6.0	2.5	3.5

Fig. 2

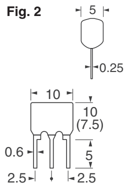

Fig. 3

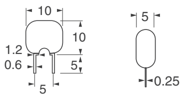

Fig. 4

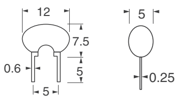

ECS INC. INTERNATIONAL SAW Filters

Fig.	Freq. (MHz)	Inser. Loss (dB)	Passband (MHz) Min.	Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel Pricing† 1,000	ECS Part No.
1	400.0	6.0	399.917	400.083	XC994CT-ND	3.57	3.22	2.68	1785.00	ECS-DSF400.0A-51-TR
2	947.5	3.3	922.5	—	XC995CT-ND	3.57	3.22	2.68	1785.00	ECS-DSF947.5B-21-TR
3	479.5	23	453.8	507.2	XC992-ND‡	2.25	2.03	1.62	—	ECS-D479.5B
	480.0	21	463.4	498.6	XC993-ND‡	2.25	2.03	1.62	—	ECS-D480A

† For Tape and Reel Part Number, change CT-ND to TR-ND. ‡ Bulk

Fig. 1

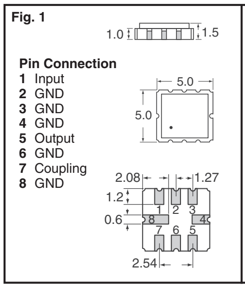

Pin Connection
1 Input
2 GND
3 GND
4 GND
5 Output
6 GND
7 Coupling
8 GND

Fig. 2

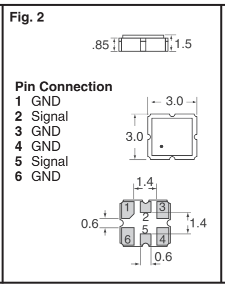

Pin Connection
1 GND
2 Signal
3 GND
4 GND
5 Signal
6 GND

Fig. 3

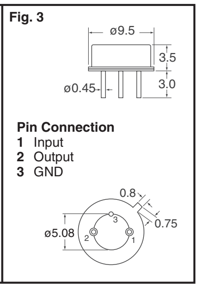

Pin Connection
1 Input
2 Output
3 GND

ECS-SDR1 — One Port SAW Resonators

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	ECS Part No.
315.00	XC996CT-ND	3.57	3.22	2.68	XC996TR-ND	1785.00	ECS-SDR1-3150-TR
418.00	XC997CT-ND	3.57	3.22	2.68	XC997TR-ND	1785.00	ECS-SDR1-4180-TR
433.92	XC998CT-ND	3.57	3.22	2.68	XC998TR-ND	1785.00	ECS-SDR1-4339-TR

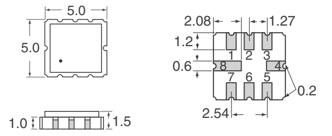

Pin Connection			
1	No Conn.	5	No Conn.
2	Input	6	Output
3	No Conn.	7	No Conn.
4	Ground	8	Ground

ABRACON CORPORATION
The Power of Linking Together

AFS Series — SMD Saw Filters

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Pricing 1,000	Abracon Part No.
1	1,575.420	535-9239-1-ND	1.65	1.49	1.24	.99	535-9239-2-ND	825.00	AFS1575.42S4
	1,842.500	535-9240-1-ND	1.65	1.49	1.24	.99	535-9240-2-ND	825.00	AFS1842.5S4
2	303.825	535-9241-1-ND	1.47	1.33	1.11	.89	535-9241-2-ND	735.00	AFS303.825E
	315.020	535-9242-1-ND	1.47	1.33	1.11	.89	535-9242-2-ND	735.00	AFS315E
	374.000	535-9243-1-ND	1.47	1.33	1.11	.89	535-9243-2-ND	735.00	AFS374E
	390.000	535-9244-1-ND	1.47	1.33	1.11	.89	535-9244-2-ND	735.00	AFS390E
3	418.000	535-9245-1-ND	1.47	1.33	1.11	.89	535-9245-2-ND	735.00	AFS418S3
	869.000	535-9247-1-ND	1.47	1.33	1.11	.89	535-9247-2-ND	735.00	AFS869S3
	915.000	535-9248-1-ND	1.47	1.33	1.11	.89	535-9248-2-ND	735.00	AFS915S3
	916.500	535-9249-1-ND	1.47	1.33	1.11	.89	535-9249-2-ND	735.00	AFS916.5S3
4	930.500	535-9250-1-ND	1.47	1.33	1.11	.89	535-9250-2-ND	735.00	AFS930S3

See manufacturer's data sheets for pinout information

Fig. 1

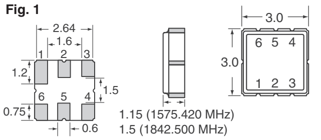

Fig. 2

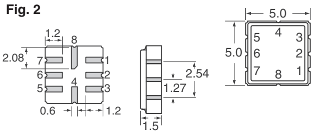

Fig. 3

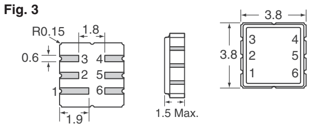

Fig. 4

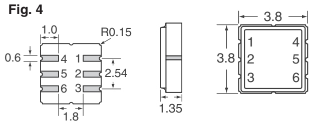

ASR Series — SMD Saw Resonators

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
1	303.825	535-9275-1-ND	1.41	1.27	1.06	.85	535-9275-2-ND	705.00	ASR303.825E
	390.000	535-9277-1-ND	1.41	1.27	1.06	.85	535-9277-2-ND	705.00	ASR390E
2	315.000	535-9276-1-ND	1.41	1.27	1.06	.85	535-9276-2-ND	705.00	ASR315E
	423.220	535-9278-1-ND	1.41	1.27	1.06	.85	535-9278-2-ND	705.00	ASR423.22E
	433.420	535-9279-1-ND	1.41	1.27	1.06	.85	535-9279-2-ND	705.00	ASR433.42E
	433.920	535-9280-1-ND	1.41	1.27	1.06	.85	535-9280-2-ND	705.00	ASR433.92E
	868.350	535-9281-1-ND	1.41	1.27	1.06	.85	535-9281-2-ND	705.00	ASR868.35E
	915.000	535-9282-1-ND	1.41	1.27	1.06	.85	535-9282-2-ND	705.00	ASR915E

See manufacturer's data sheets for pinout information

Fig. 1

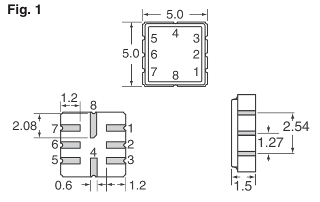

Fig. 2

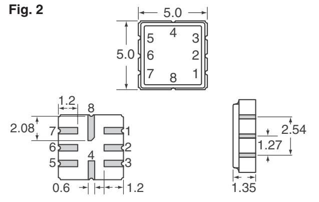

AWSCR Series — SMD Ceramic Resonators with Built-In Cap

Pin	Function
1	Input
2	GND
3	Output

Specifications: • Frequency Tolerance: ±0.5% • Operating Temperature: -40°C ~ 85°C **Features:** • Industrial grade

Fig. 1

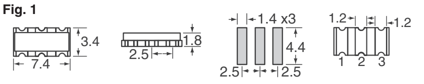

Fig. 2

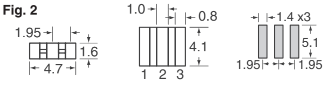

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Pricing 1,000	Abracon Part No.
1	3.58	535-9365-1-ND	.42	.36	.29	.24	535-9365-2-ND	168.00	AWSCR-3.58MGD-T
	6.00	535-9367-1-ND	.42	.36	.29	.24	535-9367-2-ND	168.00	AWSCR-6.00MGD-T
2	16.00	535-9362-1-ND	.46	.39	.31	.26	535-9362-2-ND	182.00	AWSCR-16.00MTD-T
	20.00	535-9363-1-ND	.46	.39	.31	.26	535-9363-2-ND	182.00	AWSCR-20.00MTD-T
	24.00	535-9364-1-ND	.46	.39	.31	.26	535-9364-2-ND	182.00	AWSCR-24.00MTD-T

HWZT Series — Leaded Ceramic Resonators

Specifications: • Frequency Tolerance: ±0.5% • Operating Temperature: -40°C ~ 85°C **Features:** • Low resonant impedance • Reflow solderable • High stability • Industrial grade • Excellent environmental resistance

Frequency (MHz)	H (Max.)
2.00 ~ 13.0	.295 (7.5)
13.01 ~ 20.00	.395 (10.0)

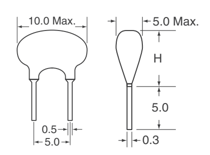

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	Abracon Part No.
2.00	535-9381-ND	.22	.18	.15	.12	HWZT-2.00MD
3.58	535-9382-ND	.22	.18	.15	.12	HWZT-3.58MD
6.00	535-9384-ND	.22	.18	.15	.12	HWZT-6.00MD
10.00	535-9377-ND	.22	.18	.15	.12	HWZT-10.00MD
12.00	535-9378-ND	.22	.18	.15	.12	HWZT-12.00MD
16.00	535-9379-ND	.22	.18	.15	.12	HWZT-16.00MD

AWSZT Series — SMD Ceramic Resonators

Pin	Function
1	Input
2	GND

Fig.	Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Tape and Reel Pricing† 1,000	Abracon Part No.
1	3.58	535-9373-1-ND	.39	.33	.26	.22	154.00	AWSZT-3.58MGD-T
	4.00	535-9374-1-ND	.39	.33	.26	.22	154.00	AWSZT-4.00MGD-T
	6.00	535-9375-1-ND	.39	.33	.26	.22	154.00	AWSZT-6.00MGD-T
2	12.00	535-9369-1-ND	.49	.42	.33	.28	154.00	AWSZT-12.00MWD-T
3	16.00	535-9370-1-ND	.39	.33	.26	.22	154.00	AWSZT-16.00MXD-T
	20.00	535-9371-1-ND	.39	.33	.26	.22	154.00	AWSZT-20.00MXD-T
	24.00	535-9372-1-ND	.39	.33	.26	.22	154.00	AWSZT-24.00MXD-T

† For Tape and Reel part number, change 1-ND to 2-ND.

Specifications: • Frequency Tolerance: ±0.5% • Operating Temperature: -40°C ~ 85°C **Features:** • Industrial grade

Fig. 1

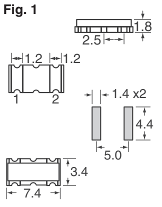

Fig. 2

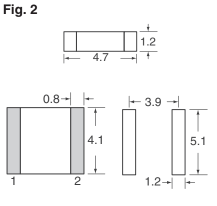

Fig. 3

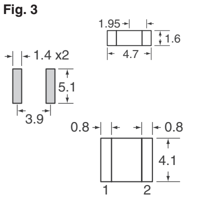

Panasonic

Ceramic Resonators - Through Hole

Freq. (MHz)	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	Panasonic Part No.
Ceramic Resonators — EFO-MN							
3.00	PX300MN-ND	1.04	8.91	69.80	424.00	396.00/M	EFO-MN3004A4
4.00	PX400MN-ND	.63	5.37	42.09	255.86	238.80/M	EFO-MN4004A4
5.00	PX500MN-ND	.63	5.37	42.09	255.86	238.80/M	EFO-MN5004A4
Ceramic Resonators with Built-In Capacitor — EFO-MC							
6.00	PX600MC-ND◆	.63	5.37	42.09	255.86	238.80/M	EFO-MC6004A4

◆ *RoHS Compliant*

EFO-MN

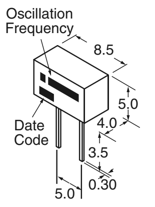

EFO-MC — Built-In Capacitors Type: Includes two capacitors, constructing Colpitts oscillation circuits. High accuracy and stable characteristics will be realized with the selected capacitors encased, small in size due to the new design of construction.

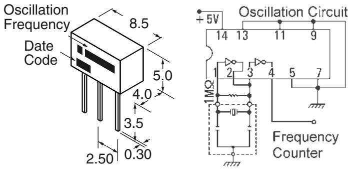

Ceramic Resonators Surface Mount

Features: • Constructed with ceramic package • High reliability against soldering heat and mechanical stress • Moisture-proof sealing • Stable against solvent cleaning • Designed for reflow soldering • Flat-bottom plate for better mountings **Applications:** • Clock generator for various microprocessers • Carrier between telecommunication equipment (telephone to telephone, personal computer to printer, etc.)

Fig. 1

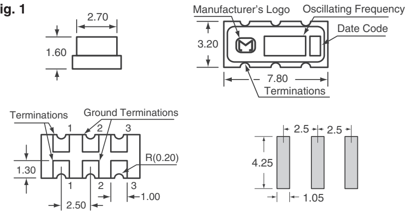

Fig. 2

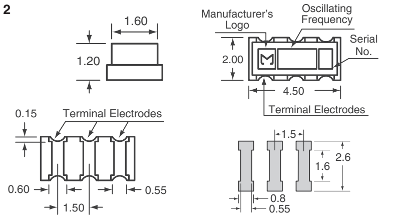

Fig. 3

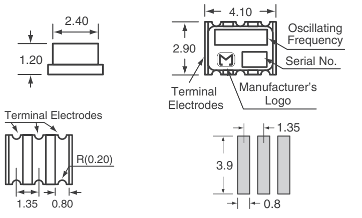

Fig. 4

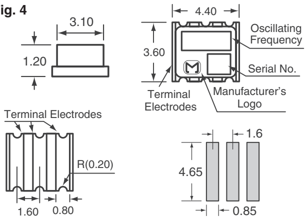

Fig. 5

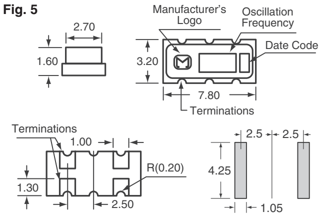

Fig. 6

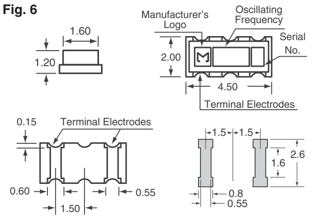

Fig. 7

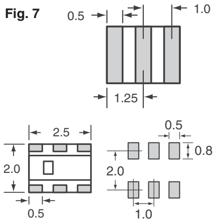

Dimensions	
Freq.	**T (mm)**
16.000	1.15
16.930	1.15
20.000	1.05
30.000	0.95
32.000	0.9
33.868	0.9
40.000	0.9

Fig.	Frequency (MHz)	Freq. Drift -20°C ~ 80°C	Built In Cap	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
EFO-S Surface Mount with Built-In Capacitor ±.5%												
1	3.580	±.3%	—	PX358SCT-ND	.72	6.17	48.36	216.09	PX358STR-ND	2,500	294.00/M	EFO-S3584E5
	4.000	±.3%	—	PX400SCT-ND	.97	8.30	65.00	290.43	PX400STR-ND	2,500	228.58/M	EFO-S4004E5
	4.190	±.3%	—	PX419SCT-ND	1.61	13.77	107.87	481.95	PX419STR-ND	2,500	655.72/M	EFO-S4194E5
	5.000	±.3%	—	PX500SCT-ND	1.64	14.04	109.98	491.40	PX500STR-ND	2,500	668.58/M	EFO-S5004E5
	6.000	±.3%	—	PX600SCT-ND	.72	6.17	48.36	216.09	PX600STR-ND	2,500	294.00/M	EFO-S6004E5
	8.000	±.3%	—	PX800SCT-ND	.72	6.17	48.36	216.09	PX800STR-ND	2,500	294.00/M	EFO-S8004E5
EFO-SS Surface Mount with Built-in Capacitor ±.5%												
2	4.000	±.2%	21pF	PX400SSCT-ND	.72	6.17	48.36	216.09	PX400SSTR-ND	2,000	294.00/M	EFO-SS4004E5
	4.190	±.2%	21pF	PX419SSCT-ND	.72	6.17	48.36	216.09	PX419SSTR-ND	2,000	294.00/M	EFO-SS4194E5
	5.000	±.2%	21pF	PX500SSCT-ND	.72	6.17	48.36	216.09	PX500SSTR-ND	2,000	294.00/M	EFO-SS5004E5
	6.000	±.2%	21pF	PX600SSCT-ND	.72	6.17	48.36	216.09	PX600SSTR-ND	2,000	294.00/M	EFO-SS6004E5
	8.000	±.2%	21pF	PX800SSCT-ND	.72	6.17	48.36	216.09	PX800SSTR-ND	2,000	294.00/M	EFO-SS8004E5
	10.000	±.3%	21pF	PX100SSCT-ND	.72	6.17	48.36	216.09	PX100SSTR-ND	2,000	294.00/M	EFO-SS1005E5
EFO-BM Surface Mount with Built-In Capacitor ±.5%												
3	16.000	±.3%	33pF	PX160BCT-ND	.64	5.49	42.98	192.05	PX160BTR-ND	1,000	261.00	EFO-BM1605E5
	16.930	±.3%	33pF	PX169BCT-ND	.72	6.19	48.46	216.51	PX169BTR-ND	1,000	295.00	EFO-BM1695E5
	20.000	±.3%	33pF	PX200BCT-ND	.72	6.19	48.46	216.51	PX200BTR-ND	1,000	295.00	EFO-BM2005E5
EFO-JM Surface Mount with Built-In Capacitor ±.5%												
4	32.000	±.2%	10pF	PX320JCT-ND	.72	6.19	48.46	216.51	PX320JTR-ND	1,000	295.00	EFO-JM3205E5
	33.868	±.2%	10pF	PX338JCT-ND	.72	6.19	48.46	216.51	PX338JTR-ND	1,000	295.00	EFO-JM3385E5
	40.000	±.2%	10pF	PX400JCT-ND	.64	5.49	42.98	192.05	PX400JTR-ND	1,000	261.00	EFO-JM4005E5
EFO-P Surface Mount ±.5%												
5	3.580	±.2%	33pF	PX358PCT-ND	.72	6.17	48.36	216.09	PX358PTR-ND	2,500	294.00/M	EFO-P3584E5
	4.000	±.2%	33pF	PX400PCT-ND	.72	6.17	48.36	216.09	PX400PTR-ND	2,500	294.00/M	EFO-P4004E5
	4.190	±.2%	33pF	PX419PCT-ND	1.58	13.50	105.75	472.50	PX419PTR-ND	2,500	642.86/M	EFO-P4194E5
	5.000	±.2%	33pF	PX500PCT-ND	1.61	13.77	107.87	481.95	PX500PTR-ND	2,500	655.72/M	EFO-P5004E5
	6.000	±.2%	33pF	PX600PCT-ND	1.61	13.77	107.87	481.95	PX600PTR-ND	2,500	655.72/M	EFO-P6004E5
	8.000	±.2%	33pF	PX800PCT-ND	.72	6.17	48.36	216.09	PX800PTR-ND	2,500	294.00/M	EFO-P8004E5
EFO-PS Surface Mount ±.5%												
6	4.000	±.6%	—	PX400PSCT-ND	.72	6.17	48.36	216.09	PX400PSTR-ND	2,000	294.00/M	EFO-PS4004E5
	4.190	±.6%	—	PX419PSCT-ND	.72	6.17	48.36	216.09	PX419PSTR-ND	2,000	294.00/M	EFO-PS4194E5
	5.000	±.6%	—	PX500PSCT-ND	.72	6.17	48.36	216.09	PX500PSTR-ND	2,000	294.00/M	EFO-PS5004E5
	6.000	±.6%	—	PX600PSCT-ND	.72	6.17	48.36	216.09	PX600PSTR-ND	2,000	294.00/M	EFO-PS6004E5
	8.000	±.6%	—	PX800PSCT-ND	.72	6.17	48.36	216.09	PX800PSTR-ND	2,000	294.00/M	EFO-PS8004E5
	10.000	±1%	—	PX100PSCT-ND	.72	6.17	48.36	216.09	PX100PSTR-ND	2,000	294.00/M	EFO-PS1005E5
EFJ-C Surface Mount with Built-In Capacitor ±.5%												
7	16.000	±.2%	8pF	PX160CCT-ND	.62	5.28	41.34	184.70	PX160CTR-ND	3,000	251.00/M	EFJ-C1605E5B
	16.930	±.2%	8pF	PX169CCT-ND	.62	5.28	41.34	184.70	PX169CTR-ND	3,000	251.00/M	EFJ-C1695E5B
	30.000	±.2%	8pF	PX300CCT-ND	.62	5.28	41.34	184.70	—	—	—	EFJ-C3005E5B
	32.000	±.2%	8pF	PX320CCT-ND	.62	5.28	41.34	184.70	PX320CTR-ND	3,000	251.00/M	EFJ-C3205E5B
	33.868	±.2%	8pF	PX338CCT-ND	.62	5.28	41.34	184.70	PX338CTR-ND	3,000	251.00/M	EFJ-C3385E5B
	40.000	±.2%	8pF	PX400CCT-ND	.62	5.28	41.34	184.70	—	—	—	EFJ-C4005E5B
EFJ-N Surface Mount ±.5%												
7	16.000	±.2%	—	PX160NCT-ND	.62	5.28	41.34	184.70	PX160NTR-ND	3,000	251.00/M	EFJ-N1605J5B
	16.930	±.2%	—	PX169NCT-ND	.62	5.28	41.34	184.70	PX169NTR-ND	3,000	251.00/M	EFJ-N1695J5B
	20.000	±.2%	—	PX200NCT-ND	.62	5.28	41.34	184.70	PX200NTR-ND	3,000	251.00/M	EFJ-N2005J5B
	30.000	±.2%	—	PX300NCT-ND	.62	5.28	41.34	184.70	PX300NTR-ND	3,000	251.00/M	EFJ-N3005J5B
	32.000	±.2%	—	PX320NCT-ND	.62	5.28	41.34	184.70	PX320NTR-ND	3,000	251.00/M	EFJ-N3205J5B
	33.868	±.2%	—	PX338NCT-ND	.62	5.28	41.34	184.70	PX338NTR-ND	3,000	251.00/M	EFJ-N3385J5B
	40.000	±.2%	—	PX400NCT-ND	.62	5.28	41.34	184.70	PX400NTR-ND	3,000	251.00/M	EFJ-N4005J5B

Panasonic® SAW Filters

Features: • Small case size based on CSP technology • Low loss with excellent attenuation

Fig. 1

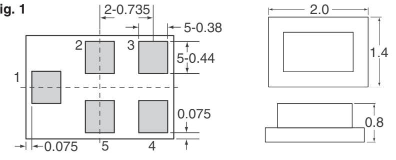

A
Input - Unbalanced
Output - Balanced

Pin Connection	
1	Input
2	GND
3	Output
4	Output
5	GND

B
Input - Unbalanced
Output - Unbalanced

Pin Connection	
1	Input
2	GND
3	GND
4	Output
5	GND

Fig. 2

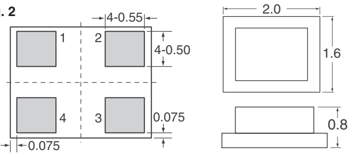

Input - Unbalanced
Output - Unbalanced

Pin Connection	
1	Input
2	GND
3	Output
4	GND

Fig.	Frequency (MHz)	Passband (MHz)	Insertion Loss (dB)	Input/Output Impedance (Ω)	Application	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 2,000	Panasonic Part No.
1A	881.50	869 ~ 894	1.4	50/150	GSM850 Rx Filter	P13003CT-ND	1.14	1.03	.86	P13003TR-ND	567.75/M	EFCH881MTCA1
	881.50	869 ~ 894	1.5	50/100	CDMA800 Rx Filter	P13009CT-ND	1.14	1.03	.86	P13009TR-ND	567.75/M	EFCH881MTCA7
	1,575.42	1,574.42 ~ 1,576.42	1.1	50/100	GPS Rx Filter	P13012CT-ND	1.52	1.37	1.14	P13012TR-ND	757.50/M	EFCH1575TCA1
	1,960.00	1,930 ~ 1,990	1.5	50/150	PCS1900 Rx Filter	P13002CT-ND	1.52	1.37	1.14	P13002TR-ND	757.50/M	EFCH1960TCA1
	2,140.00	2,110 ~ 2,170	1.8	50/100	WCDMA Rx Filter	P13011CT-ND	1.52	1.37	1.14	P13011TR-ND	757.50/M	EFCH2140TCA1
1B	836.50	824 ~ 849	1.7	50/50	CDMA800 Tx Filter; GSM850 Tx Filter	P13008CT-ND	1.14	1.03	.86	P13008TR-ND	567.75/M	EFCH836MTCD1
	881.50	869 ~ 894	1.6	50/50	GSM850 Rx Filter; CDMA800 Rx Filter	P13007CT-ND	1.14	1.03	.86	P13007TR-ND	567.75/M	EFCH881MTCD1
	942.50	925 ~ 960	1.7	50/50	EGSM900 Rx Filter	P13004CT-ND	1.14	1.03	.86	P13004TR-ND	567.75/M	EFCH942MTCD1
	1,842.50	1,805 ~ 1,880	1.9	50/50	DCS1800 Rx Filter	P13005CT-ND	1.52	1.37	1.14	P13005TR-ND	757.50/M	EFCH1842TCD1
	1,950.00	1,920 ~ 1,980	2.3	50/50	WCDMA Tx Filter	P13010CT-ND	1.52	1.37	1.14	P13010TR-ND	757.50/M	EFCH1950TCD1
	1,960.00	1,930 ~ 1,990	1.7	50/50	PCS1900 Rx Filter	P13006CT-ND	1.52	1.37	1.14	P13006TR-ND	757.50/M	EFCH1960TCD1
2	1,575.42	1,573.92 ~ 1,576.92	1.15	50/50	GPS Rx Filter	P13013CT-ND	1.52	1.37	1.14	P13013TR-ND	757.50/M	EFCH1575TCB1

SAW Resonators

Capable of fundamental wave oscillation, and it is particularly suited for simplification, size reduction and stabilization of the circuit, compared with conventional LC oscillation and quartz crystal oscillation.

Features: • Capable of fundamental oscillation • Superior temperature characteristics **Recommended Applications:** • Oscillation circuit for remote control (garage door opener, security system) • Various kinds of local oscillation circuit **Specifications:** • **Operating Temperature:** -20°C ~ 80°C • **Max. Frequency Drift:** -150 ~ 50 ppm/°C (-20°C ~ 80°C) **1 Port Type:** • **Resonant Resistance:** 30Ω Max. • **Capacitance:** 2.0pF ±0.5 **2 Port Type:** • **Insertion Loss:** 15dB Max. • **Loaded Q:** 7000 Minimum (5000 Minimum for 418.00 and 433.92 frequency) • **Capacitance:** 1.3pF ±0.3 • **Phase Shift:** 180°

Port Type	Frequency (MHz)	Digi-Key Part No.	Pricing 1	10	100	Panasonic Part No.
1 Port Type	224.5 ±0.25% 418 ±0.25%	PX224S1-ND PX418S1-ND	6.87 6.87	58.86 58.86	461.07 461.07	EFO-H224MS12 EFO-H418MS12
2 Port Type	224.5 ±0.25% 418 ±0.25%	PX224S2-ND PX418S2-ND	6.87 6.87	58.86 58.86	461.07 461.07	EFO-H224MS03 EFO-H418MS03

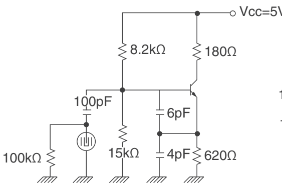

Example Circuit for Reference Only

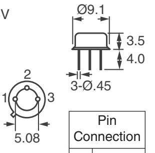

Pin Connection	
1	In/Out
2	Out/In
3	GND

AVX Thin Film Low Pass Filters

The LP0603 ITF (Integrated Thin Film) Lead-Free LGA Low Pass Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Low Pass Filters are offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

Features: • Miniature Size (0603) • **Frequency Range:** 900MHz ~ 2.4GHz • Low profile • Self alignment during reflow • Excellent solderability • Low Parasitics • Better heat dissipation • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -40°C ~ 85°C • **Power Rating:** 3W • **VSWR:** 1.4 dB Max. • **Impedance:** 50Ω

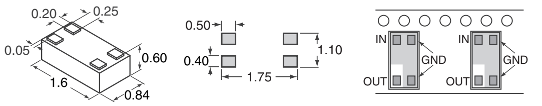

Frequency Range (GHz)	Insertion Loss Typ. (dB)	Attenuation (Min) @ Frequency (GHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 3,000	AVX Part No.
.890 ~ .915	.35	25dB @ 1.804; 14dB @ 2.706	478-2908-1-ND	1.09	.95	.87	478-2908-2-ND	508.00/M	LP0603A0902ANTR
.935 ~ .960	.35	25dB @ 1.894; 17dB @ 2.841	478-2909-1-ND	1.09	.95	.87	478-2909-2-ND	508.00/M	LP0603A0947ANTR
1.710 ~ 1.785	.3	25dB @ 3.494; 17dB @ 5.241	478-2910-1-ND	1.09	.95	.87	478-2910-2-ND	508.00/M	LP0603A1747ANTR
1.805 ~ 1.880	.3	27dB @ 3.684; 15dB @ 5.526	478-2911-1-ND	1.09	.95	.87	478-2911-2-ND	508.00/M	LP0603A1842ANTR
1.840 ~ 1.920	.3	25dB @ 3.760; 17dB @ 5.640	478-2912-1-ND	1.09	.95	.87	478-2912-2-ND	508.00/M	LP0603A1880ANTR
1.920 ~ 1.980	.3	27dB @ 3.900; 15dB @ 5.850	478-2913-1-ND	1.09	.95	.87	478-2913-2-ND	508.00/M	LP0603A1950ANTR
2.110 ~ 2.170	.3	27dB @ 4.280; 17dB @ 6.420	478-2914-1-ND	1.09	.95	.87	478-2914-2-ND	508.00/M	LP0603A2140ANTR
2.412 ~ 2.472	.3	25dB @ 4.884; 17dB @ 7.326	478-2915-1-ND	1.09	.95	.87	478-2915-2-ND	508.00/M	LP0603A2442ANTR
3.400 ~ 3.600	.3	30dB @ 7.000; 20dB @ 10.500	478-4320-1-ND	1.31	1.14	1.05	478-4320-2-ND	613.00/M	LP0603N3500ANTR
5.050 ~ 5.350	.2	30dB @ 10.400; 20dB @ 15.600	478-4321-1-ND	1.31	1.14	1.05	478-4321-2-ND	613.00/M	LP0603N5200ANTR
5.350 ~ 5.650	.2	30dB @ 11.000; 20dB @ 16.500	478-4322-1-ND	1.31	1.14	1.05	478-4322-2-ND	613.00/M	LP0603N5500ANTR

PBRC/PRQC Series (MHz Band Ceramic Resonators)

Fig. 1

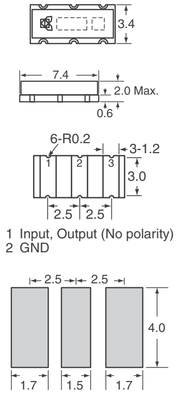

Fig. 2

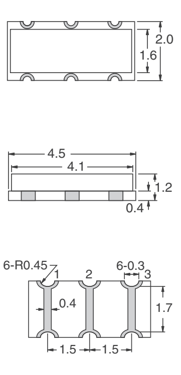

Fig. 3

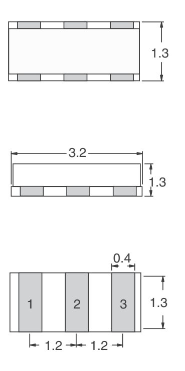

Freq. Range (MHz)	Tolerance (25°C)	Temperature Stability	Standard Frequency
3.58 ~ 8.00	±0.5% (op. ±0.3%)	±0.5% (-40°C ~ 85°C)	3.58, 4.00, 4.19, 6.00, 8.00
8.01 ~ 20.00	±0.7% (op. ±0.5%)	±0.1% (-40°C ~ 85°C)	10.0, 12.0, 16.0, 20.0

Specifications: • **Operating Temperature:** -40°C ~ 85°C **Features:** • Excellent frequency stability • Low profile • Reflow solderable • Excellent solderability (Nickel barrier + gold flash termination) **Applications:** • Automotive and automotive accessories • Camcorders • Digital cameras • PDAs • PC peripherals

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	AVX Part No.
				PBRC Series					
1	3.58	478-2106-1-ND	.56	.49	.38	478-2106-2-ND	2,000	262.50/M	PBRC-3.58HR
	4.00	478-2107-1-ND	.56	.49	.38	478-2107-2-ND	2,000	262.50/M	PBRC-4.00HR
	4.19	478-2108-1-ND	.56	.49	.38	478-2108-2-ND	2,000	262.50/M	PBRC-4.19HR
	6.00	478-2109-1-ND	.56	.49	.38	478-2109-2-ND	2,000	262.50/M	PBRC-6.00HR
	8.00	478-2110-1-ND	.56	.49	.38	478-2110-2-ND	2,000	262.50/M	PBRC-8.00HR
	10.00	478-2111-1-ND	.94	.82	.63	478-2111-2-ND	2,000	437.50/M	PBRC-10.00HR
	12.00	478-2112-1-ND	.94	.82	.63	478-2112-2-ND	2,000	437.50/M	PBRC-12.00HR
	16.00	478-2113-1-ND	.94	.82	.63	478-2113-2-ND	2,000	437.50/M	PBRC-16.00HR
	20.00	478-2114-1-ND	.94	.82	.63	478-2114-2-ND	2,000	437.50/M	PBRC-20.00HR
2	4.00	478-4580-1-ND	.56	.49	.45	478-4580-2-ND	3,000	263.00/M	PBRC4.00MR50X000
	5.00	478-4581-1-ND	.56	.49	.45	478-4581-2-ND	3,000	263.00/M	PBRC5.00MR50X000
	6.00	478-4582-1-ND	.56	.49	.45	478-4582-2-ND	3,000	263.00/M	PBRC6.00MR50X000
	7.37	478-4583-1-ND	.56	.49	.45	478-4583-2-ND	3,000	263.00/M	PBRC7.37MR50X000
				PRQC Series					
3	8.00	478-4584-1-ND	.56	.49	.45	478-4584-2-ND	3,000	263.00/M	PRQC8.00SR5010X000

AVX

PARS Series (SAW Resonators)

Digi-Reel® RoHS COMPLIANT

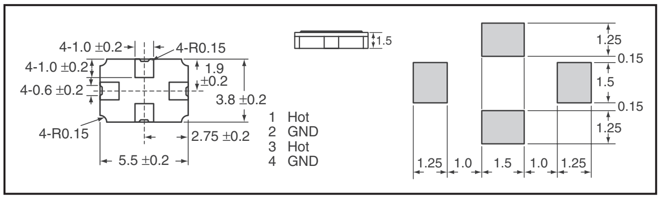

Specifications: • **Operating Temperature:** -40°C ~ 85°C

Features: • Low profile • Highly reliable SMD ceramic package • Excellent temperature characteristics

Applications: • Keyless entry systems (automotive) • Garage door openers • Security systems • 1 port type SMD resonator

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	AVX Part No.
315.00	478-2115-1-ND	2.10	1.80	1.41	478-2115-2-ND	840.00/M	PARS315.00K04R
418.00	478-2116-1-ND	2.10	1.80	1.41	478-2116-2-ND	840.00/M	PARS418.00K04R
433.92	478-2117-1-ND	2.10	1.80	1.41	478-2117-2-ND	840.00/M	PARS433.92K04R

muRata *Innovator in Electronics*

Murata Electronics

Ceramic Resonators - Surface Mount

Digi-Reel® RoHS COMPLIANT

Fig. 1

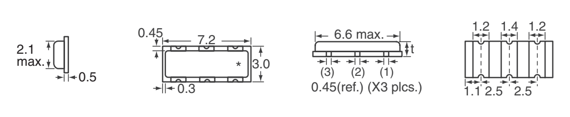

Fig. 2

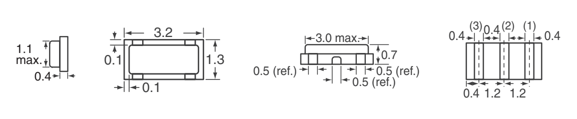

Fig. 3

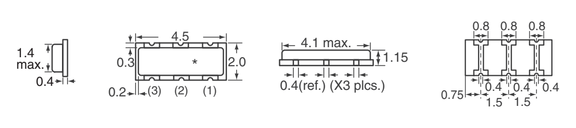

Fig. 4

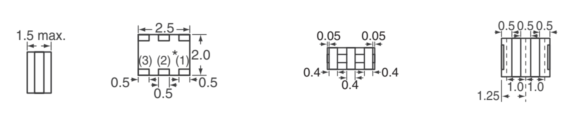

Fig.	Fre-quency (MHz)	Operating Temperature	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Qty.	Pricing	Murata Part No.
CSTCC–G Series - Commercial									
1	2.00	-20°C ~ 80°C	490-1193-1-ND	.68	.57	.44	2,000	341.00/M	CSTCC2M00G53-R0
	3.58	-20°C ~ 80°C	490-1194-1-ND	.55	.46	.36	2,000	277.00/M	CSTCC3M58G53-R0
CSTCC–G Series - Industrial									
1	2.00	-40°C ~ 125°C	490-1216-1-ND	.77	.66	.52	2,000	307.00/M	CSTCC2M00G53Z-R0
CSTCE–G and CSTCR-G Series - Commercial									
2	8.00	-20°C ~ 80°C	490-1195-1-ND	.50	.42	.33	3,000	251.00/M	CSTCE8M00G55-R0
	10.00	-20°C ~ 80°C	490-1196-1-ND	.50	.42	.33	3,000	251.00/M	CSTCE10M0G55-R0
	12.00	-20°C ~ 80°C	490-1197-1-ND	.50	.42	.33	3,000	251.00/M	CSTCE12M0G55-R0
3	4.00	-20°C ~ 80°C	490-1200-1-ND	.45	.38	.30	3,000	227.00/M	CSTCR4M00G53-R0
	4.19	-20°C ~ 80°C	490-1201-1-ND	.45	.38	.30	3,000	227.00/M	CSTCR4M19G53-R0
	4.91	-20°C ~ 80°C	490-1202-1-ND	.48	.40	.31	3,000	238.00/M	CSTCR4M91G53-R0
	5.00	-20°C ~ 80°C	490-1203-1-ND	.43	.36	.28	3,000	217.00/M	CSTCR5M00G53-R0
	6.00	-20°C ~ 80°C	490-1204-1-ND	.45	.38	.30	3,000	227.00/M	CSTCR6M00G53-R0
CSTCE–G and CSTCR-G Series - Industrial									
2	8.00	-40°C ~ 125°C	490-1219-1-ND	.53	.44	.35	3,000	265.00/M	CSTCE8M00G55Z-R0
	10.00	-40°C ~ 125°C	490-4715-1-ND	.71	.62	.57	3,000	253.00/M	CSTCE10M0G55Z-R0
	12.00	-40°C ~ 125°C	490-1220-1-ND	.53	.44	.35	3,000	265.00/M	CSTCE12M0G55Z-R0
3	4.00	-40°C ~ 125°C	490-1217-1-ND	.48	.40	.32	3,000	193.00/M	CSTCR4M00G53Z-R0
	4.19	-20°C ~ 80°C	490-4718-1-ND	.60	.52	.48	3,000	278.00/M	CSTCR4M19G53Z-R0
	4.91	-20°C ~ 80°C	490-4719-1-ND	.60	.52	.48	3,000	278.00/M	CSTCR4M91G53Z-R0
	5.00	-20°C ~ 80°C	490-4720-1-ND	.60	.52	.48	3,000	278.00/M	CSTCR5M00G53Z-R0
	6.00	-40°C ~ 125°C	490-1218-1-ND	.48	.40	.32	3,000	242.00/M	CSTCR6M00G53Z-R0
CSTCE–V Series - Commercial									
2	16.00	-20°C ~ 80°C	490-1198-1-ND	.59	.49	.38	3,000	294.00/M	CSTCE16M0V53-R0
	20.00	-20°C ~ 80°C	490-1199-1-ND	.59	.49	.38	3,000	294.00/M	CSTCE20M0V53-R0
CSTCE–V Series - Industrial									
2	16.00	-40°C ~ 125°C	490-4716-1-ND	.61	.54	.50	3,000	287.00/M	CSTCE16M0V53Z-R0
	20.00	-40°C ~ 125°C	490-4717-1-ND	.75	.66	.61	3,000	351.00/M	CSTCE20M0V53Z-R0
CSTCW–X Series - Commercial									
4	24.00	-20°C ~ 80°C	490-1205-1-ND	.25	.21	.16	3,000	123.00/M	CSTCW24M0X53-R0
	48.00	-20°C ~ 80°C	490-1206-1-ND	.25	.21	.16	3,000	123.00/M	CSTCW48M0X51-R0

* For Tape & Reel part number, change 1-ND to 2-ND.

Ceramic Resonators - Leaded

RoHS COMPLIANT

Fig. 1

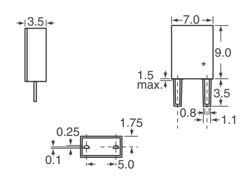

Fig. 2

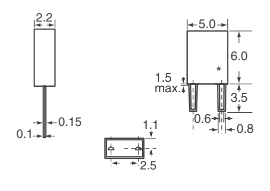

Fig. 3

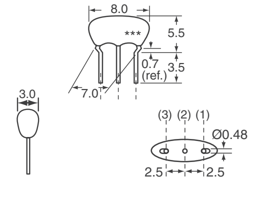

Fig. 4

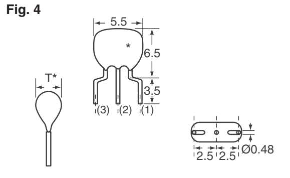

* T = 3.5±1.0 (16.00 - 32.99MHz)
T = 3.0±1.0 (33.00 - 70.00MHz)

Fig.	Frequency	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
CSBLA Series - Commercial							
1	400.00kHz	-20°C ~ 80°C	490-1186-ND	.76	.64	.49	CSBLA400KECE-B0
	455.00kHz	-20°C ~ 80°C	490-1187-ND	.73	.61	.47	CSBLA455KEC8-B0
	480.00kHz	-20°C ~ 80°C	490-1188-ND	.62	.52	.40	CSBLA480KEC8-B0
	500.00kHz	-20°C ~ 80°C	490-1189-ND	.73	.61	.47	CSBLA500KEC8-B0
	540.00kHz	-20°C ~ 80°C	490-1190-ND	.70	.59	.46	CSBLA540KEC8-B0
	640.00kHz	-20°C ~ 80°C	490-1191-ND	.60	.50	.39	CSBLA640KEC8-B0
2	800.00kHz	-20°C ~ 80°C	490-1192-ND	.81	.68	.53	CSBLA800KJ58-B0
	1.00MHz	-20°C ~ 80°C	490-1185-ND	.82	.68	.53	CSBLA1M00J58-B0
CSTLS Series - Commercial							
3	3.58MHz	-20°C ~ 80°C	490-1207-ND	.27	.23	.18	CSTLS3M58G53-B0
	4.00MHz	-20°C ~ 80°C	490-1208-ND	.26	.22	.17	CSTLS4M00G53-B0
	4.19MHz	-20°C ~ 80°C	490-1209-ND	.27	.23	.18	CSTLS4M19G53-B0
	5.00MHz	-20°C ~ 80°C	490-1210-ND	.27	.23	.18	CSTLS5M00G53-B0
	6.00MHz	-20°C ~ 80°C	490-1211-ND	.27	.23	.18	CSTLS6M00G53-B0
	8.00MHz	-20°C ~ 80°C	490-1212-ND	.26	.22	.17	CSTLS8M00G53-B0
	10.00MHz	-20°C ~ 80°C	490-1213-ND	.28	.24	.19	CSTLS10M0G53-B0
4	16.00MHz	-20°C ~ 80°C	490-1214-ND	.50	.42	.32	CSTLS16M0X55-B0
	20.00MHz	-20°C ~ 80°C	490-1215-ND	.56	.47	.37	CSTLS20M0X53-B0
	50.00MHz	-20°C ~ 80°C	490-2606-ND	.56	.47	.37	CSTLS50M0X51-B0
CSTLS Series - Industrial							
3	4.00MHz	-40°C ~ 125°C	490-1221-ND	.29	.24	.19	CSTLS4M00G53Z-B0
	6.00MHz	-40°C ~ 125°C	490-1222-ND	.32	.27	.21	CSTLS6M00G53Z-B0
	8.00MHz	-40°C ~ 125°C	490-1223-ND	.29	.25	.19	CSTLS8M00G53Z-B0

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Ceramic Filters

SFECV10M7 Series for FM receivers are monolithic type ceramic filters which utilize the thickness expander mode of the piezoelectric ceramic.

Fig. 1 — SFECV

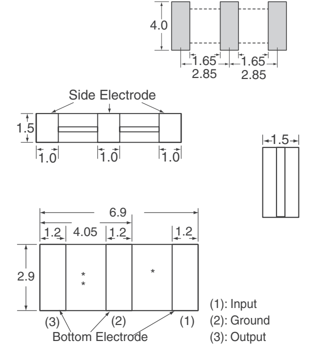

Fig. 2 — SFSCE

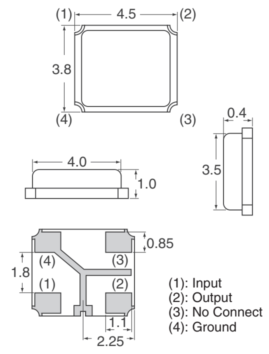

Fig. 3 — SFECF

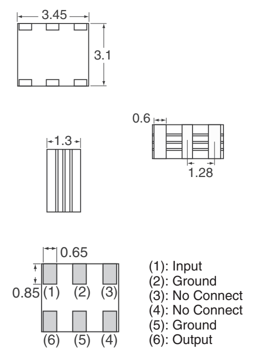

Fig. 4 — SFELF and SFVLF

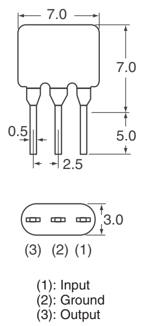

Fig. 5 — SFKLF

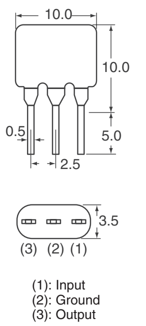

Frequency (MHz)	Attenuation (Min) @ Frequency	Bandwidth (kHz)	Insertion Loss (dB)	Attenuation (dB)	Input/Output Impedance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
Fig. 1 — SFECV													
10.7 ±30kHz	20dB @ 320kHz	110	6	35	330/330	490-1229-1-ND	1.29	1.12	.87	490-1229-2-ND	2,000	603.00/M	SFECV10M7KA00-R0
10.7 ±30kHz	20dB @ 380kHz	150	5.5	35	330/330	490-1230-1-ND	.99	.86	.66	490-1230-2-ND	2,000	461.00/M	SFECV10M7JA00-R0
10.7 ±40kHz	20dB @ 950kHz	500	2	20	470/470	490-1231-1-ND	2.26	1.96	1.51	490-1231-2-ND	2,000	1052.45/M	SFECV10M7CQ0C01-R0
Fig. 2 — SFSCE													
10.7	20dB @ 2.2MHz	500	2	30/25	470/470	490-4675-1-ND	1.88	1.64	1.51	490-4675-2-ND	1,500	878.00/M	SFSCE10M7WF03-R0
10.7	20dB @ 1.8MHz	400	1.5	30/25	470/470	490-4676-1-ND	1.88	1.64	1.51	490-4676-2-ND	1,500	878.00/M	SFSCE10M7WF04-R0
10.7	20dB @ 1.7MHz	325	1.5	40/30	470/470	490-4677-1-ND	1.88	1.64	1.51	490-4677-2-ND	1,500	878.00/M	SFSCE10M7WF05-R0
Fig. 3 — SFECF													
10.7	20dB @ 990kHz	150	6	20	330/330	490-4678-1-ND	1.26	1.10	1.01	490-4678-2-ND	2,000	587.00/M	SFECF10M7DF00-R0
10.7 ±30kHz	20dB @ 700kHz	330	3	30	330/330	490-4679-1-ND	1.25	1.08	1.00	490-4679-2-ND	2,000	581.00/M	SFECF10M7EA00-R0
10.7 ±30kHz	20dB @ 590kHz	280	3	30	330/330	490-4680-1-ND	.81	.70	.65	490-4680-2-ND	2,000	376.00/M	SFECF10M7FA00-R0
10.7 ±30kHz	20dB @ 510kHz	230	3.5	30	330/330	490-4681-1-ND	.83	.73	.67	490-4681-2-ND	2,000	389.00/M	SFECF10M7GA00-R0
10.7 ±30kHz	20dB @ 470kHz	180	4	30	330/330	490-4682-1-ND	.83	.72	.67	490-4682-2-ND	2,000	385.00/M	SFECF10M7HA00-R0
Fig. 4 — SFELF													
10.7	20dB @ 950kHz	175	3	20	470/470	490-4705-ND	.64	.53	.41	—	—	—	SFELF10M7DF00-B0
10.7 ±30kHz	20dB @ 680kHz	330	4	30	330/330	490-4706-ND	.45	.38	.29	—	—	—	SFELF10M7EA00-B0
10.7 ±30kHz	20dB @ 650kHz	280	4	30	330/330	490-4707-ND	.31	.26	.20	—	—	—	SFELF10M7FA00-B0
10.7 ±30kHz	20dB @ 570kHz	230	4	40	330/330	490-4708-ND	.31	.26	.20	—	—	—	SFELF10M7GA00-B0
10.7 ±30kHz	20dB @ 520kHz	180	7	40	330/330	490-4709-ND	.36	.30	.23	—	—	—	SFELF10M7HA00-B0
10.7 ±30kHz	20dB @ 360kHz	150	4.5	35	330/330	490-4710-ND	.43	.36	.28	—	—	—	SFELF10M7JAA0-B0
10.7 ±30kHz	20dB @ 350kHz	110	7	45/30	330/330	490-4711-ND	.64	.53	.41	—	—	—	SFELF10M7KAB0-B0
Fig. 4 — SFVLF													
10.7	—	25	5.5	30	330/330	490-4712-ND	1.99	1.65	1.28	—	—	—	SFVLF10M7LF00-B0
10.7	20dB @ 135kHz	13	5	35	330/330	490-4713-ND	2.02	1.68	1.31	—	—	—	SFVLF10M7MF00-B0
Fig. 5 — SFKLF													
10.7 ±15kHz	20dB @ 95kHz	20	6	24	600/600	490-4714-ND	2.67	2.22	1.72	—	—	—	SFKLF10M7NL00-B0

Ceramic Discriminator

CDSCB and CDALF Series:
They form a resonator on a piezoelectric ceramic substrate. In combination with ICs, these types obtain stable demodulation characteristics in a wide bandwidth.

Fig. 1

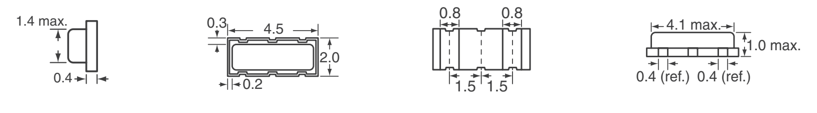

Fig. 2

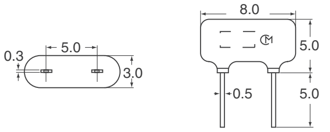

Fig.	Frequency (MHz)	Min. Recovered Audio	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
1	10.7	40mV	490-4721-1-ND	1.15	1.00	.92	490-4721-2-ND	2,000	534.00/M	CDSCB10M7GA042-R0
		67mV	490-4723-1-ND	.92	.80	.74	490-4723-2-ND	2,000	430.00/M	CDSCB10M7GA085-R0
		75mV	490-1240-1-ND	.86	.72	.56	490-1240-2-ND	2,000	430.00/M	CDSCB10M7GA119-R0
		75mV	490-4726-1-ND	.92	.80	.74	490-4726-2-ND	2,000	430.00/M	CDSCB10M7GA135-R0
		75mV	490-4727-1-ND	1.03	.90	.83	490-4727-2-ND	2,000	480.00/M	CDSCB10M7GA135S-R0
		110mV	490-4725-1-ND	.92	.80	.74	490-4725-2-ND	2,000	430.00/M	CDSCB10M7GA105A-R0
		130mV	490-4724-1-ND	.92	.80	.74	490-4724-2-ND	2,000	430.00/M	CDSCB10M7GA096-R0
		—	490-4722-1-ND	1.02	.89	.82	490-4722-2-ND	2,000	475.00/M	CDSCB10M7GA061-R0
		—	490-4728-1-ND	1.02	.89	.82	490-4728-2-ND	2,000	475.00/M	CDSCB10M7GF123-R0
		—	490-4729-1-ND	1.10	.96	.89	490-4729-2-ND	2,000	515.00/M	CDSCB10M7GF123S-R0
2	10.7	50mV	490-4730-ND	.84	.70	.54	—	—	—	CDALF10M7GA042-B0
		70mV	490-4732-ND	.51	.43	.33	—	—	—	CDALF10M7GA085-B0
		110mV	490-4733-ND	.86	.72	.56	—	—	—	CDALF10M7GA096-B0
		130mV	490-4734-ND	.81	.67	.52	—	—	—	CDALF10M7GA105A-B0
		180mV	490-4731-ND	.68	.57	.44	—	—	—	CDALF10M7GA084-B0

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TDK Ceramic Resonators - Leaded

RoHS COMPLIANT

Fig. 1

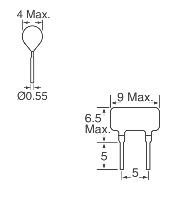

Fig. 2

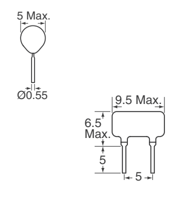

Fig. 3

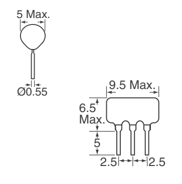

Fig. 4

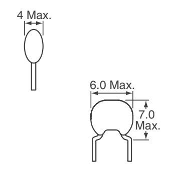

Features: • The FCR series provide a high degree of stability between the quartz oscillator and the LC or RC oscillating circuits. Temperature characteristics: -20°C ~ 85°C

Specifications: • **Frequency Tolerance:** ±0.5% • **Operating Temperature:** -40°C ~ 85°C

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500	TDK Part No.
			FCR Series					
1	16.00	445-1646-ND*	.39	3.24	25.13	—	—	FCR16.0M2G
2	4.00	445-1642-ND*	.30	2.51	19.50	—	—	FCR4.0M5
	4.19	445-1643-ND*	.30	2.51	19.50	—	—	FCR4.19M5
	6.00	445-1644-ND*	.30	2.51	19.50	—	—	FCR6.0M5
	8.00	445-1645-ND*	.31	2.56	19.87	—	—	FCR8.0M5
3	4.00	445-1638-ND*	.31	2.56	19.87	—	—	FCR4.0MC5
	4.19	445-1639-ND*	.31	2.56	19.87	—	—	FCR4.19MC5
	6.00	445-1640-ND*	.31	2.56	19.87	—	—	FCR6.0MC5
	8.00	445-1641-ND*	.33	2.71	21.00	—	—	FCR8.0MC5
4	16.00	445-2568-1-ND	.34	3.08	25.63	445-2568-2-ND	171.00/M	FCR16.0M6T
	18.00	445-2569-1-ND	.34	3.08	25.63	445-2569-2-ND	171.00/M	FCR18.0M6T
	18.43	445-2570-1-ND	.34	3.08	25.63	—	—	FCR18.43M6T
	24.00	445-2571-1-ND	.34	3.08	25.63	445-2571-3-ND†	171.00/M	FCR24.0M6T
	25.00	445-2572-1-ND	.34	3.08	25.63	—	—	FCR25.0M6T

* Bulk Packaging † Tape and Box Packaging

Ceramic Resonators - Surface Mount

Digi-Reel® RoHS COMPLIANT

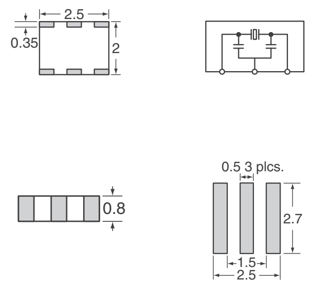

Features:
- The CCR Series are thin type ceramic chip resonators. 3rd overtone thickness mode elements are used for the 16.93 ~ 50MHz band.
- Built-in load capacitance

Specifications:
- **Frequency Tolerance:** ±0.5% • **Operating Temperature:** -40°C ~ 85°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	TDK Part No.
			CCR Series				
16.93	445-1648-1-ND	.63	.55	.43	445-1648-2-ND	294.58/M	CCR16.93MXC7T
20.00	445-1649-1-ND	.63	.55	.43	445-1649-2-ND	294.58/M	CCR20.0MXC7T
25.00	445-1650-1-ND	.63	.55	.43	445-1650-2-ND	294.58/M	CCR25.0MXC7T
30.00	445-1651-1-ND	.60	.52	.40	445-1651-2-ND	280.00/M	CCR30.0MXC7T
33.86	445-1652-1-ND	.60	.52	.40	445-1652-2-ND	280.00/M	CCR33.86MXC7T
48.00	445-1654-1-ND	1.09	.95	.73	445-1654-2-ND	507.50/M	CCR48.0MXC7A15T

TOKO Ceramic Resonators - Surface Mount

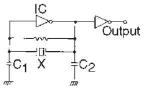

Output	
IC	1/5μ - PD4069
VDD	+5V
X	Ceramic Element
C1, C2	Capacitors

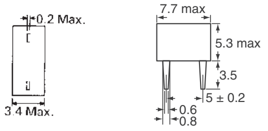

Features:

TOKO ceramic resonators utilize the piezoelectric principle converting a mechanical force (stress) into an electrical signal or converting an electrical signal into a mechanical force.

The ceramic resonator is a thin section of piezoelectric ceramic material, such as quartz, whose sides are metallized into a corresponding pair of electrodes and upon the application of current produce a lengthwise vibration.

Oscillating Frequency	External Components	Digi-Key Part No.	Price Each 1	10	100	Toko Part No.
			CRK Type			
400kHz ±1%	C1-560pF, C2-200pF	TK9940-ND	1.88	1.52	.94	BP11DCRK400

EPCOS SAW Bandpass Filters

RoHS COMPLIANT

Fig. 1

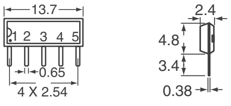

Fig. 2

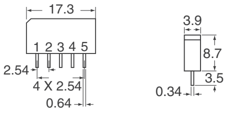

Pin Configuration	
1	Input
2	Input - Ground
3	Chip Carrier - Ground
4	Output
5	Output

Fig.	Frequency (MHz)	Insertion Loss (dB)	Bandwidth (MHz)	Digi-Key Part No.	Price Each 1	25	50	100	Epcos Part No.
1	43.75	14.8	6	495-1952-5-ND	9.56	8.29	7.65	6.37	B39438X6964M100
				495-1953-5-ND	3.19	2.77	2.55	2.13	B39438X6964N201
2	44	14.7	6	495-1691-5-ND	9.56	8.29	7.65	6.37	B39440X6965N201
		16.2	8	495-1954-5-ND	16.88	14.63	13.50	11.25	B39440X6855M100
		20	6.5	495-1690-5-ND	8.04	6.98	6.44	5.37	B39440X6941N201

SAW Filters - Surface Mount

Applications: The front-end SAW filter in the receiver eliminates interference from the incoming RF signal, thus increasing selectivity and sensitivity in short-range devices. Tighter tolerances are available upon request.

Fig. 1

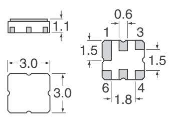

Fig. 2

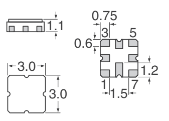

Fig. 3

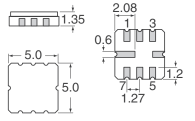

Fig. 4

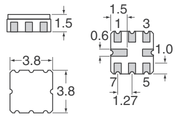

Fig. 5

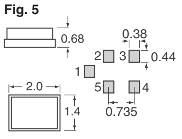

Fig. 6

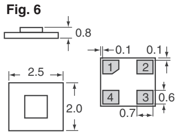

Fig. 7 ***NEW!***

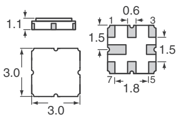

Fig.	Frequency (MHz)	Passband (MHz)	Insertion Loss (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Epcos Part No.
					1	10	100		Qty.	Pricing	
1	312.2	311.9 ~ 312.5	1.8	495-2354-1-ND	2.07	1.86	1.56	495-2354-2-ND	9,000	965.00/M	B39311B3712U410
	315	314.7 ~ 315.3	1.7	495-1667-1-ND	2.07	1.86	1.56	495-1667-2-ND	9,000	965.00/M	B39321B3711U410
	315	314.85 ~ 315.15	2.4	495-2619-1-ND	2.33	2.10	1.75	495-2619-2-ND	9,000	1164.00/M	B39321B3731H110
	433.92	433 ~ 434.71	2.0	495-1870-1-ND	2.07	1.86	1.56	495-1870-2-ND	9,000	916.00/M	B39431B3710U410
	433.92	433.70 ~ 434.14	2.4	495-3691-1-ND ***NEW!***	2.33	2.10	1.75	495-3691-2-ND ***NEW!***	9,000	1086.00/M	B39431B3730H110
	433.92	433.70 ~ 434.14	2.2	495-3693-1-ND ***NEW!***	2.33	2.10	1.75	495-3693-2-ND ***NEW!***	9,000	1086.00/M	B39431B3736H110
	864	862.5 ~ 865.5	4.0	495-2353-1-ND	1.50	1.35	1.13	495-2353-2-ND	9,000	700.00/M	B39861B3563U410
	868.30	868.15 ~ 868.45	3.2	495-3692-1-ND ***NEW!***	2.33	2.10	1.75	495-3692-2-ND ***NEW!***	9,000	1086.00/M	B39871B3734H110
	869	868 ~ 870	2.4	495-2361-1-ND	2.33	2.10	1.75	495-2361-2-ND	9,000	1086.00/M	B39871B3715U410
	915	902 ~ 928	2.9	495-1674-1-ND	1.08	.98	.81	495-1674-2-ND	9,000	503.00/M	B39921B3588U410
	916	914.25 ~ 917.75	2.4	495-3690-1-ND ***NEW!***	2.33	2.10	1.75	495-3690-2-ND ***NEW!***	9,000	1086.00/M	B39921B3718U410
	1575.42	1574.22 ~ 1576.62	1.3	495-2363-1-ND	2.33	2.10	1.75	495-2363-2-ND	9,000	1086.00/M	B39162B3520U410
	1575.42	1574.42 ~ 1576.42	3.2	495-3689-1-ND ***NEW!***	2.33	2.10	1.75	495-3689-2-ND ***NEW!***	9,000	1086.00/M	B39162B3521U410
	1575.42	1574.22 ~ 1576.62	3.3	495-3699-1-ND ***NEW!***	2.33	2.10	1.75	495-3699-2-ND ***NEW!***	9,000	1396.00/M	B39162B4050U510
2	1575.42	1574.22 ~ 1576.62	1.3	495-2341-1-ND	2.33	2.10	1.75	495-2341-2-ND	9,000	1086.00/M	B39162B4060U810
3	303.8	303.62 ~ 303.98	3.0	495-2325-1-ND	3.62	3.26	2.72	—	—	—	B39301B3553U310
	311.06	310.94 ~ 311.18	2.0	495-2326-1-ND	3.62	3.26	2.72	495-2326-2-ND	3,000	1808.00/M	B39311B3577U310
	315	314.84 ~ 315.16	2.1	495-2329-1-ND	3.36	3.03	2.52	495-2329-2-ND	3,000	1679.00/M	B39321B3751U310
	315	314.9 ~ 315.1	3.3	495-2327-1-ND	3.87	3.49	2.91	495-2327-2-ND	3,000	1937.00/M	B39321B3576U310
	345.03	344.9 ~ 345.1	2.0	495-2330-1-ND	3.62	3.26	2.72	495-2330-2-ND	3,000	1808.00/M	B39351B3559U310
	433.42	433.31 ~ 433.53	3.3	495-2332-1-ND	2.34	2.11	1.76	495-2332-2-ND	3,000	1170.00/M	B39431B3567U310
	433.92	433.76 ~ 434.08	2.0	495-2335-1-ND	3.36	3.03	2.52	495-2335-2-ND	3,000	1679.00/M	B39431B3750U310
	433.92	433.83 ~ 434.01	3.4	495-2289-1-ND	2.34	2.11	1.76	495-2289-2-ND	3,000	1170.00/M	B39431B3575U310
	433.96	433.8 ~ 434.12	2.2	495-2359-1-ND	1.86	1.68	1.40	495-2359-2-ND	3,000	930.00/M	B39431B3555U310
	434.42	434.26 ~ 434.58	2.0	495-2336-1-ND	3.36	3.03	2.52	495-2336-2-ND	3,000	1679.00/M	B39431B3757U310
	868.3	868.2 ~ 868.4	4.2	495-2337-1-ND	2.34	2.11	1.76	495-2337-2-ND	3,000	1170.00/M	B39871B3574U310
	868.39	868 ~ 868.78	2.7	495-1961-1-ND	2.34	2.11	1.76	495-1961-2-ND	3,000	1170.00/M	B39871B3570U310
	868.69	868 ~ 869.38	3.1	495-2338-1-ND	3.87	3.49	2.91	495-2338-2-ND	3,000	1937.00/M	B39871B3571U310
	869.69	869.2 ~ 870.18	2.8	495-2339-1-ND	3.87	3.49	2.91	495-2339-2-ND	3,000	1937.00/M	B39871B3573U310
4	312.2	312.05 ~ 312.35	1.9	495-2355-1-ND	3.10	2.79	2.33	495-2355-2-ND	3,000	1550.00/M	B39311B3766Z810
	313.85	313.7 ~ 314	1.9	495-2356-1-ND	3.10	2.79	2.33	495-2356-2-ND	3,000	1550.00/M	B39311B3768Z810
	315	314.5 ~ 315.5	2.7	495-2328-1-ND	1.77	1.60	1.33	495-2328-2-ND	3,000	885.00/M	B39321B3581Z810
	315	314.85 ~ 315.15	1.9	495-1668-1-ND	3.10	2.79	2.33	495-1668-2-ND	3,000	1550.00/M	B39321B3761Z810
	315.15	315 ~ 315.3	1.9	495-2357-1-ND	3.10	2.79	2.33	495-2357-2-ND	3,000	1550.00/M	B39321B3763Z810
	315.5	315.35 ~ 315.65	1.9	495-2358-1-ND	3.10	2.79	2.33	495-2358-2-ND	3,000	1550.00/M	B39321B3765Z810
	345	344.6 ~ 345.4	2.5	495-2352-1-ND	3.10	2.79	2.33	495-2352-2-ND	3,000	1550.00/M	B39351B3583Z810
	433.92	433 ~ 434.71	2.8	495-2334-1-ND	1.77	1.60	1.33	495-2334-2-ND	3,000	885.00/M	B39431B3580Z810
	433.92	433.76 ~ 434.08	1.9	495-1672-1-ND	3.10	2.79	2.33	495-1672-2-ND	3,000	1550.00/M	B39431B3760Z810
	433.92	433.645 ~ 434.195	2.0	495-3694-1-ND ***NEW!***	3.36	3.03	2.52	495-3694-2-ND ***NEW!***	3,000	1679.00/M	B39431B3780Z810
	433.92	433.86 ~ 433.98	3.6	495-3695-1-ND ***NEW!***	3.36	3.03	2.52	495-3695-2-ND ***NEW!***	3,000	1679.00/M	B39431B3790Z810
	868.3	868 ~ 868.6	3.1	495-1673-1-ND	3.36	3.03	2.52	495-1673-2-ND	3,000	1679.00/M	B39871B3762Z810
	914.7	913.9 ~ 915.5	4.0	495-2340-1-ND	3.10	2.79	2.33	495-2340-2-ND	3,000	1550.00/M	B39921B3705Z810
5	942.5	925 ~ 960	1.4	495-1875-1-ND	1.56	1.41	1.17	495-1875-2-ND	9,000	780.00/M	B39941B7837K410
	1575.42	1574.42 ~ 1576.42	.5	495-1880-1-ND	1.59	1.44	1.20	495-1880-2-ND	9,000	742.00/M	B39162B9000C710
	2140	2110.0 ~ 2170	2.6	495-1873-1-ND	1.83	1.65	1.38	495-1873-2-ND	9,000	854.00/M	B39212B7835C710
6	2140	2110.0 ~ 2170.0	2.4	495-2629-1-ND	1.62	1.46	1.22	495-2629-2-ND	9,000	756.00/M	B39212B7750C810
7	1575.42	1574.22 ~ 1576.62	2.8	495-3696-1-ND ***NEW!***	2.33	2.10	1.75	495-3696-2-ND ***NEW!***	9,000	1086.00/M	B39162B4059U810

SAW Resonators - Surface Mount

Applications:
In remote control applications, SAW resonators provide stable frequencies for the RF carrier signal to transmit data over a range of 10-300m or for the local oscillators of superhet receivers.

Tighter tolerances are available upon request.

Fig. 1

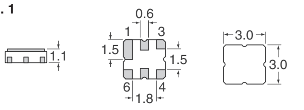

Fig. 2

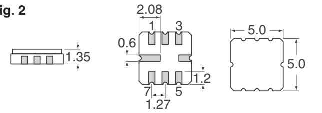

Fig. 3

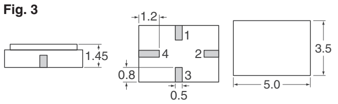

Fig.	No. of Ports	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Epcos Part No.
				1	10	100		Qty.	Pricing	
1	1	315	495-3698-1-ND ***NEW!***	1.71	1.54	1.29	495-3698-2-ND ***NEW!***	9,000	797.00/M	B39321R961H110
		433.92	495-2380-1-ND	1.50	1.36	1.13	495-2380-2-ND	9,000	701.00/M	B39431R900U410
		433.92	495-2392-1-ND	1.71	1.54	1.29	495-2392-2-ND	9,000	854.00/M	B39431R960H110
		433.92	495-2381-1-ND	1.30	1.17	.98	495-2381-2-ND	9,000	605.00/M	B39431R980U410
2	1	314.875; 315.125	495-2368-1-ND*	4.54	4.09	3.41	495-2368-2-ND*	3,000	2271.00/M	B39311R771U310
		433.81; 434.06	495-2377-1-ND*	4.54	4.09	3.41	495-2377-2-ND*	3,000	2271.00/M	B39431R770U310
	2	311.063	495-2344-1-ND	2.43	2.19	1.83	495-2344-2-ND	3,000	1215.00/M	B39311R2710U310
		315	495-2346-1-ND	2.43	2.19	1.83	495-2346-2-ND	3,000	1215.00/M	B39321R2704U310
		418.05	495-2375-1-ND	2.43	2.19	1.83	495-2375-2-ND	3,000	1215.00/M	B39421R2702U310
		433.92	495-2349-1-ND	2.43	2.19	1.83	495-2349-2-ND	3,000	1215.00/M	B39431R2701U310
		804.5	495-2384-1-ND	2.43	2.19	1.83	495-2384-2-ND	3,000	1215.00/M	B39801R2712U310
		868.35	495-2385-1-ND	2.43	2.19	1.83	495-2385-2-ND	3,000	1215.00/M	B39871R2711U310
		915	495-1675-1-ND	1.77	1.60	1.33	—	—	—	B39921R2706U310
3	1	303.825	495-2365-1-ND	1.50	1.36	1.13	495-2365-2-ND	3,000	752.00/M	B39301R807H210
		304.3	495-2343-1-ND	2.22	2.01	1.67	—	—	—	B39301R852H210
		314.5	495-2367-1-ND	2.22	2.01	1.67	495-2367-2-ND	3,000	1112.00/M	B39311R854H210
		315	495-1669-1-ND	.99	.90	.75	495-1669-2-ND	3,000	495.00/M	B39321R801H210
		315	495-2372-1-ND	.99	.90	.75	495-2372-2-ND	3,000	495.00/M	B39321R821H210
		315.02	495-2345-1-ND	2.22	2.01	1.67	495-2345-2-ND	3,000	1112.00/M	B39321R851H210
		433.42	495-2348-1-ND	.99	.90	.75	495-2348-2-ND	3,000	495.00/M	B39431R806H210
		433.92	495-2378-1-ND	.99	.90	.75	495-2378-2-ND	3,000	495.00/M	B39431R820H210
		433.92	495-2350-1-ND	.90	.81	.68	495-2350-2-ND	3,000	450.00/M	B39431R880H210
		433.94	495-2379-1-ND	2.22	2.01	1.67	495-2379-2-ND	3,000	1112.00/M	B39431R850H210
		868.35	495-3697-1-ND ***NEW!***	4.54	4.09	3.41	495-3697-2-ND ***NEW!***	3,000	2271.00/M	B39871R858H210

* 2 resonators in 1 housing

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Series CR43

Standard SMD small size power inductors. Non-shielded.

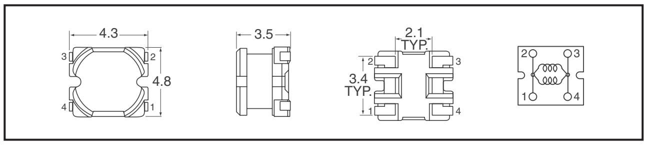

Inductance	D.C.R (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,500	Sumida Part No.
1.8µH	.0637	1.95	308-1118-1-ND	1.24	1.13	.84	455.00/M	CR43-1R8MC
6.8µH	.1312	0.95	308-1125-1-ND	1.24	1.13	.84	455.00/M	CR43-6R8MC
8.2µH	.1462	0.84	308-1126-1-ND	1.24	1.13	.84	455.00/M	CR43-8R2MC
RoHS Compliant								
1.0µH	.0487	2.56	308-1521-1-ND	1.10	1.00	.75	403.00/M	CR43NP-1R0MC
1.4µH	.0562	2.52	308-1522-1-ND	1.10	1.00	.75	403.00/M	CR43NP-1R4MC
1.8µH	.0637	1.95	308-1523-1-ND	1.10	1.00	.75	403.00/M	CR43NP-1R8MC
2.2µH	.0712	1.75	308-1524-1-ND	1.10	1.00	.75	403.00/M	CR43NP-2R2MC
3.3µH	.0862	1.44	308-1525-1-ND	1.10	1.00	.75	403.00/M	CR43NP-3R3MC
3.9µH	.0937	1.33	308-1526-1-ND	1.10	1.00	.75	403.00/M	CR43NP-3R9MC
4.7µH	.1087	1.15	308-1527-1-ND	1.10	1.00	.75	403.00/M	CR43NP-4R7MC
6.8µH	.1312	0.95	308-1528-1-ND	1.10	1.00	.75	403.00/M	CR43NP-6R8MC
8.2µH	.1462	0.84	308-1529-1-ND	1.10	1.00	.75	403.00/M	CR43NP-8R2MC

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CDPH4D19F

Double-stacked flatwire windings allow for supercompact size and current handling efficiency. EMI shielding to minimize crosstalk interference.

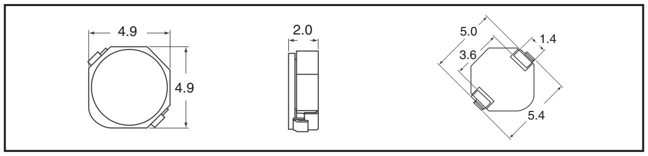

Inductance	D.C.R (Ω) (Maximum at 20°C)	Saturation Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Sumida Part No.
3.3µH	.026	1.50	308-1315-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-3R3MC
4.7µH	.030	1.15	308-1317-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-4R7MC
6.8µH	.040	1.00	308-1318-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-6R8MC
8.0µH	.045	0.90	308-1319-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-8R0MC
10µH	.052	0.80	308-1311-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-100MC
15µH	.075	0.66	308-1312-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-150MC
22µH	.108	0.54	308-1313-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-220MC
33µH	.160	0.43	308-1314-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-330MC
47µH	.234	0.36	308-1316-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-470MC

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CR54

Standard SMD small size power inductors. Non-shielded.

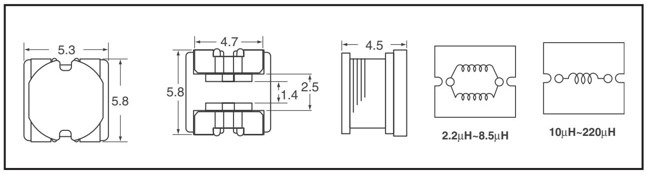

2.2µH~8.5µH

10µH~220µH

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R* Pricing 1,500	Sumida Part No.
2.2µH	.0234	3.84	308-1295-1-ND	1.17	1.07	.96	—	CR54-2R2MC
3.3µH	.0286	3.20	308-1299-1-ND	1.17	1.07	.96	—	CR54-3R3MC
7.6µH	.0624	2.08	308-1308-1-ND	1.17	1.07	.96	—	CR54-7R6MC
12µH	0.12	1.40	308-1286-1-ND	1.17	1.07	.96	—	CR54-120MC
39µH	0.32	0.80	308-1298-1-ND	1.17	1.07	.96	—	CR54-390LC
56µH	0.42	0.68	308-1303-1-ND	1.17	1.07	.96	—	CR54-560KC
82µH	0.60	0.58	308-1309-1-ND	1.17	1.07	.96	—	CR54-820KC
120µH	0.93	0.48	308-1287-1-ND	1.17	1.07	.96	—	CR54-121KC
180µH	1.38	0.38	308-1291-1-ND	1.17	1.07	.96	—	CR54-181KC
RoHS Compliant								
10µH	0.10	1.44	308-1530-1-ND	1.17	1.07	.96	594.00/M	CR54NP-100MC
15µH	0.14	1.30	308-1531-1-ND	1.17	1.07	.96	594.00/M	CR54NP-150MC
18µH	0.15	1.23	308-1532-1-ND	1.17	1.07	.96	594.00/M	CR54NP-180MC
22µH	0.18	1.11	308-1533-1-ND	1.17	1.07	.96	594.00/M	CR54NP-220MC
33µH	0.23	0.88	308-1535-1-ND	1.17	1.07	.96	594.00/M	CR54NP-330LC
68µH	0.46	0.61	308-1536-1-ND	1.17	1.07	.96	594.00/M	CR54NP-680KC
220µH	1.57	0.35	308-1534-1-ND	1.17	1.07	.96	594.00/M	CR54NP-221KC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH5D18

Low Profile SMD power inductors with electrodes directly attached to ferrite core. EMI shielding to minimize crosstalk interference.

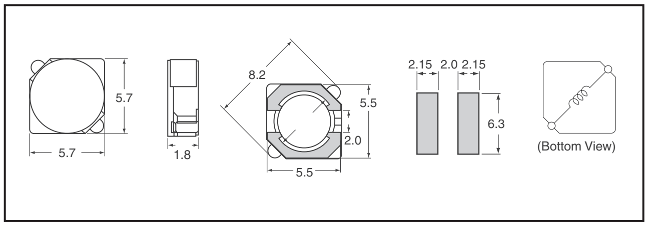

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 2,000	Sumida Part No.
4.1µH	.042	1.95	308-1481-1-ND	.92	.84	.63	468.00/M	CDRH5D18NP-4R1NC
5.4µH	.056	1.60	308-1482-1-ND	.92	.84	.63	468.00/M	CDRH5D18NP-5R4NC
10µH	.092	1.20	308-1479-1-ND	.92	.84	.63	468.00/M	CDRH5D18NP-100NC
22µH	.215	0.80	308-1480-1-ND	.92	.84	.63	468.00/M	CDRH5D18NP-220NC

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CDH53

SMD power inductors with electrodes directly attached to ferrite core. Unshielded.

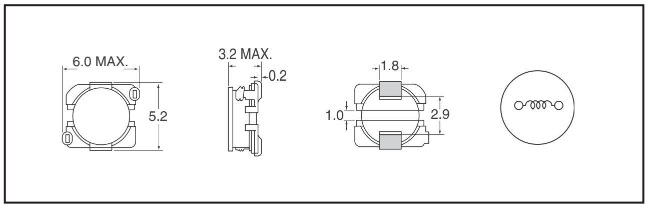

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,500	Sumida Part No.
10µH	0.16	1.23	308-1421-1-ND	.99	.91	.68	504.00/M	CDH53NP-100LC
100µH	1.57	0.37	308-1422-1-ND	.99	.91	.68	504.00/M	CDH53NP-101JC

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH62B

SMD power inductors with electrodes directly attached to ferrite core. EMI shielding to minimize crosstalk interference.

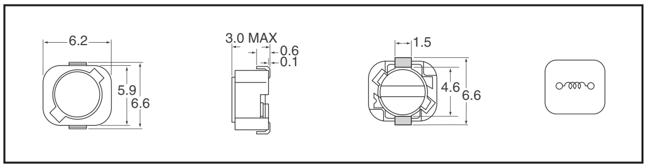

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 2,000	Sumida Part No.
2.9µH	0.068	1.94	308-1148-1-ND	.96	.88	.65	—	CDRH62B-2R9NC
27µH	0.38	0.66	308-1159-1-ND	.96	.88	.65	486.00/M	CDRH62B-270MC
RoHS Compliant								
2.9µH	0.068	1.94	308-1485-1-ND	.92	.84	.63	468.00/M	CDRH62BNP-2R9NC
10µH	0.15	1.10	308-1483-1-ND	1.28	1.17	.87	468.00/M	CDRH62BNP-100MC
22µH	0.34	0.74	308-1484-1-ND	.92	.84	.63	468.00/M	CDRH62BNP-220MC
47µH	0.69	0.50	308-1486-1-ND	1.28	1.17	.87	468.00/M	CDRH62BNP-470MC

* For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Series CDRH6D28

Low profile SMD power inductors with electrodes directly attached to ferrite core. EMI shielding to minimize crosstalk interference.

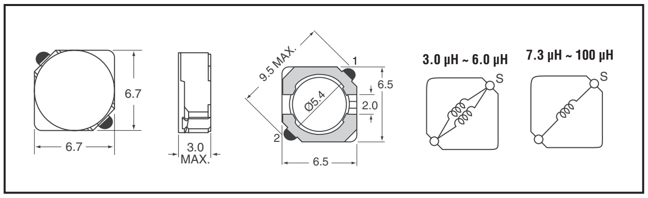

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,500	Sumida Part No.
7.3µH	0.054	2.10	308-1222-1-ND	1.10	1.00	.75	—	CDRH6D28-7R3NC
12µH	0.070	1.55	308-1225-1-ND	1.10	1.00	.75	—	CDRH6D28-120NC
82µH	0.390	0.60	308-1235-1-ND	1.10	1.00	.75	—	CDRH6D28-820NC
RoHS Compliant								
3.0µH	0.024	3.00	308-1495-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-3R0NC
3.9µH	0.027	2.60	308-1496-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-3R9NC
5.0µH	0.031	2.40	308-1498-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-5R0NC
6.0µH	0.035	2.25	308-1499-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-6R0NC
7.3µH	0.054	2.10	308-1500-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-7R3NC
10µH	0.065	1.70	308-1487-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-100NC
12µH	0.070	1.55	308-1489-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-120NC
15µH	0.084	1.40	308-1490-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-150NC
18µH	0.095	1.32	308-1491-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-180NC
22µH	0.128	1.20	308-1492-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-220NC
27µH	0.142	1.05	308-1493-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-270NC
33µH	0.165	0.97	308-1494-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-330NC
47µH	0.238	0.80	308-1497-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-470NC
82µH	0.390	0.60	308-1501-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-820NC
100µH	0.535	0.54	308-1488-1-ND	1.03	.94	.70	522.00/M	CDRH6D28NP-101NC

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CR75

Standard SMD small size power inductors. Non-shielded.

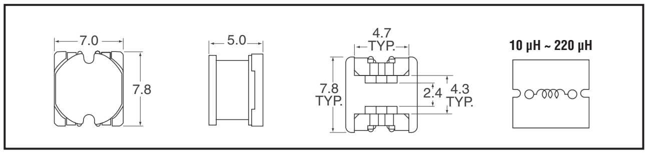

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Sumida Part No.
10µH	0.07	2.3	308-1537-1-ND	1.28	1.17	.87	648.00	CR75NP-100KC
33µH	0.13	1.2	308-1539-1-ND	1.28	1.17	.87	648.00	CR75NP-330KC
47µH	0.18	1.1	308-1540-1-ND	1.28	1.17	.87	648.00	CR75NP-470KC
220µH	0.96	0.49	308-1538-1-ND	1.28	1.17	.87	648.00	CR75NP-221KC

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CDR7D28MN

DC supercomposition characteristic is extended by using a hybrid Ni-Zn/Mn-Zi core. EMI shielding to minimize crosstalk interference.

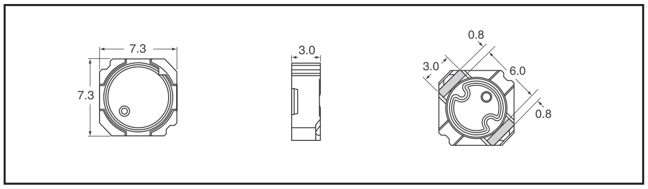

Inductance	D.C.R (Ω) (Maximum at 20°C)	Saturation Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Sumida Part No.
1.2µH	.0164	6.8	308-1322-1-ND	2.04	1.86	1.38	972.00	CDR7D28MNNP-1R2NC
2.0µH	.019	4.3	308-1324-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-2R0NC
3.6µH	.026	3.4	308-1326-1-ND	2.04	1.86	1.38	972.00	CDR7D28MNNP-3R6NC
4.6µH	.030	3.15	308-1327-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-4R6NC
6.8µH	.037	2.75	308-1328-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-6R8NC
8.0µH	.040	2.5	308-1329-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-8R0NC
10µH	.048	2.3	308-1320-1-ND	2.04	1.86	1.38	972.00	CDR7D28MNNP-100NC
15µH	.065	2.0	308-1321-1-ND	1.92	1.75	1.30	972.00	CDR7D28MNNP-150NC
22µH	.096	1.6	308-1323-1-ND	2.04	1.86	1.38	972.00	CDR7D28MNNP-220NC
33µH	.157	1.3	308-1325-1-ND	2.04	1.86	1.38	972.00	CDR7D28MNNP-330NC

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH74

SMD power inductors with electrodes directly attached to ferrite core. EMI shielding to minimize crosstalk interference.

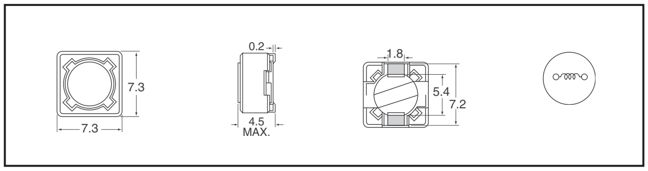

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Sumida Part No.
10µH	0.049	1.84	308-1502-1-ND	1.42	1.29	.96	720.00	CDRH74NP-100MC
15µH	0.081	1.47	308-1505-1-ND	1.42	1.29	.96	720.00	CDRH74NP-150MC
18µH	0.091	1.31	308-1507-1-ND	1.42	1.29	.96	720.00	CDRH74NP-180MC
22µH	0.11	1.23	308-1509-1-ND	1.42	1.29	.96	720.00	CDRH74NP-220MC
47µH	0.26	0.88	308-1512-1-ND	1.42	1.29	.96	720.00	CDRH74NP-470MC
56µH	0.35	0.75	308-1514-1-ND	1.42	1.29	.96	720.00	CDRH74NP-560MC
68µH	0.38	0.69	308-1516-1-ND	1.42	1.29	.96	720.00	CDRH74NP-680MC
100µH	0.61	0.60	308-1503-1-ND	1.42	1.29	.96	720.00	CDRH74NP-101MC
150µH	0.88	0.46	308-1506-1-ND	1.42	1.29	.96	720.00	CDRH74NP-151MC
180µH	0.98	0.42	308-1508-1-ND	1.42	1.29	.96	720.00	CDRH74NP-181MC
220µH	1.17	0.36	308-1510-1-ND	1.42	1.29	.96	720.00	CDRH74NP-221MC
330µH	1.86	0.32	308-1511-1-ND	1.42	1.29	.96	720.00	CDRH74NP-331MC
470µH	3.01	0.26	308-1513-1-ND	1.42	1.29	.96	720.00	CDRH74NP-471MC
560µH	3.62	0.23	308-1515-1-ND	1.42	1.29	.96	720.00	CDRH74NP-561MC
1.0mH	6.00	0.18	308-1504-1-ND	1.42	1.29	.96	720.00	CDRH74NP-102MC

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CDR105

Standard SMD power inductor. EMI shielding to minimize crosstalk interference.

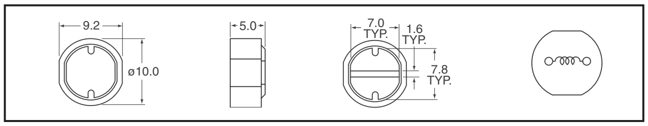

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Qty.	Pricing	Sumida Part No.
RoHS Compliant									
10µH	0.06	2.53	308-1423-1-ND	1.99	1.81	1.35	500	378.00	CDR105NP-100MC
22µH	0.09	1.71	308-1425-1-ND	1.99	1.81	1.35	500	378.00	CDR105NP-220MC
100µH	0.35	0.80	308-1424-1-ND	1.99	1.81	1.35	500	378.00	CDR105NP-101MC
CD105 Series									
100µH	0.35	0.97	308-1342-1-ND	2.87	2.62	1.95	—	—	CD105-101KC
CD105 Series — RoHS Compliant									
100µH	0.35	0.97	308-1415-1-ND	2.88	2.62	1.95	500	549.00	CD105NP-101KC

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH104R

R-series SMD power inductors with low AC and DC resistance characteristics. EMI shielding to minimize crosstalk interference.

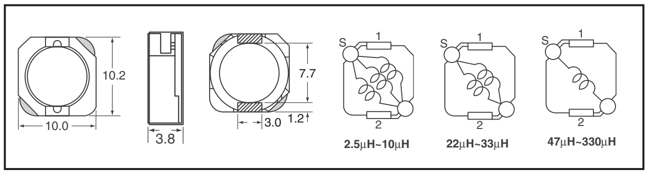

Inductance @100kHz 1V	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R* Pricing 1,000	Sumida Part No.
2.5µH	10.5m	7.50	308-1276-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-2R5NC
47µH	128m	2.10	308-1280-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-470NC
100µH	304m	1.35	308-1270-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-101NC
RoHS Compliant								
2.5µH	10.5m	7.50	308-1432-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-2R5NC
3.8µH	13.0m	6.00	308-1434-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-3R8NC
10µH	35m	4.40	308-1429-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-100NC
22µH	73m	2.90	308-1431-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-220NC
33µH	93m	2.30	308-1433-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-330NC
47µH	128m	2.10	308-1435-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-470NC
100µH	304m	1.35	308-1430-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-101NC

* For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

sumida Surface Mount Power Inductors *(Cont.)*

Series CDRH127/LD

Low DCR direct drop-in version of Sumida's most popular series, CDRH127. Shielded.

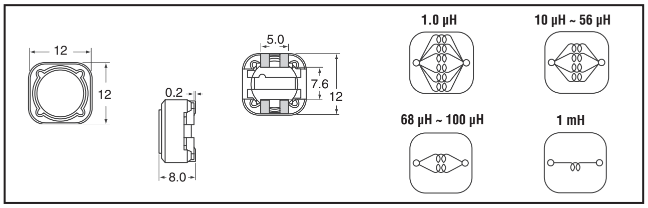

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing	Sumida Part No.
				1	10	100	500	
1.0µH	.005	14.0	308-1334-1-ND	2.03	1.85	1.38	513.00	CDRH127/LDNP-1R0NC
10µH	.015	6.70	308-1330-1-ND	2.03	1.85	1.38	513.00	CDRH127/LDNP-100MC
15µH	.0203	5.65	308-1333-1-ND	1.63	1.49	1.11	513.00	CDRH127/LDNP-150MC
22µH	.028	4.70	308-1335-1-ND	2.03	1.85	1.38	513.00	CDRH127/LDNP-220MC
27µH	.032	4.20	308-1336-1-ND	2.70	2.46	1.83	513.00	CDRH127/LDNP-270MC
33µH	.041	3.90	308-1337-1-ND	2.03	1.85	1.38	513.00	CDRH127/LDNP-330MC
39µH	.0465	3.50	308-1338-1-ND	2.03	1.85	1.38	513.00	CDRH127/LDNP-390MC
47µH	.06	3.25	308-1339-1-ND	2.03	1.85	1.38	513.00	CDRH127/LDNP-470MC
56µH	.069	2.90	308-1340-1-ND	2.03	1.85	1.38	513.00	CDRH127/LDNP-560MC
68µH	.092	2.60	308-1341-1-ND	2.02	1.84	1.37	513.00	CDRH127/LDNP-680MC
100µH	.119	2.10	308-1331-1-ND	2.03	1.85	1.38	513.00	CDRH127/LDNP-101MC
1.0mH	.00115	0.70	308-1332-1-ND	2.03	1.85	1.38	513.00	CDRH127/LDNP-102MC

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH125

SMD power inductors with electrodes directly attached to ferrite core. EMI shielding to minimize crosstalk interference.

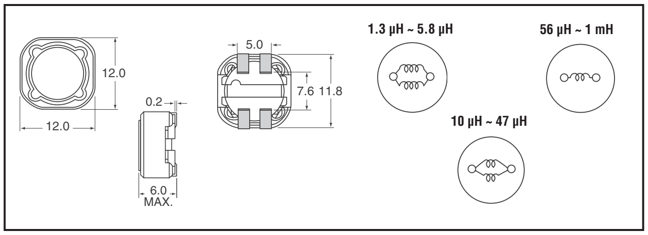

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing	Sumida Part No.
				1	10	100	500	
1.3µH	0.012	8.00	308-1040-1-ND	2.13	1.94	1.44	—	CDRH125-1R3NC
10µH	0.025	4.00	308-1046-1-ND	2.13	1.94	1.44	540.00	CDRH125-100MC
39µH	0.068	2.00	308-1053-1-ND	2.13	1.94	1.44	540.00	CDRH125-390MC
56µH	0.11	1.70	308-1055-1-ND	2.13	1.94	1.44	—	CDRH125-560MC
82µH	0.14	1.40	308-1057-1-ND	2.13	1.94	1.44	—	CDRH125-820MC
150µH	0.23	1.00	308-1060-1-ND	2.13	1.94	1.44	540.00	CDRH125-151MC
820µH	1.34	0.43	308-1069-1-ND	2.13	1.94	1.44	—	CDRH125-821MC
RoHS Compliant								
1.3µH	0.012	8.00	308-1444-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-1R3NC
2.1µH	0.014	7.00	308-1447-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-2R1NC
5.8µH	0.021	4.40	308-1453-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-5R8NC
10µH	0.025	4.00	308-1436-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-100MC
15µH	0.030	3.30	308-1440-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-150MC
18µH	0.034	3.00	308-1442-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-180MC
22µH	0.036	2.80	308-1445-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-220MC
33µH	0.057	2.10	308-1448-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-330MC
39µH	0.068	2.00	308-1450-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-390MC
47µH	0.075	1.80	308-1451-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-470MC
56µH	0.11	1.70	308-1452-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-560MC
68µH	0.12	1.50	308-1454-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-680MC
82µH	0.14	1.40	308-1455-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-820MC
100µH	0.16	1.30	308-1437-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-101MC
120µH	0.17	1.10	308-1439-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-121MC
150µH	0.23	1.00	308-1441-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-151MC
180µH	0.29	0.90	308-1443-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-181MC
220µH	0.40	0.80	308-1446-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-221MC
330µH	0.51	0.68	308-1449-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-331MC
820µH	1.34	0.43	308-1456-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-821MC
1.0mH	1.53	0.40	308-1438-1-ND	2.02	1.84	1.37	513.00	CDRH125NP-102MC

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH127

SMD power inductors with electrodes directly attached to ferrite core. EMI shielding to minimize crosstalk interference.

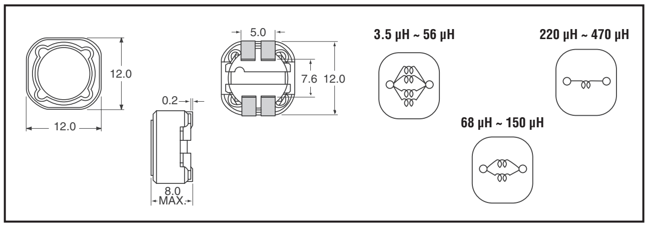

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing	Sumida Part No.
				1	10	100	500	
3.5µH	.0135	7.50	308-1073-1-ND	3.05	2.78	2.07	774.00	CDRH127-3R5NC
7.6µH	.0200	5.90	308-1076-1-ND	3.05	2.78	2.07	774.00	CDRH127-7R6NC
RoHS Compliant								
3.5µH	.0135	7.50	308-1470-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-3R5NC
4.7µH	.0158	6.80	308-1473-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-4R7NC
6.1µH	.0176	6.60	308-1476-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-6R1NC
7.6µH	.0200	5.90	308-1477-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-7R6NC
10µH	.0216	5.40	308-1457-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-100MC
12µH	.0243	4.90	308-1459-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-120MC
15µH	.0270	4.50	308-1461-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-150MC
18µH	.0392	3.90	308-1463-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-180MC
22µH	.0432	3.60	308-1464-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-220MC
27µH	.0459	3.40	308-1466-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-270MC
33µH	.0648	3.00	308-1467-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-330MC
39µH	.0729	2.75	308-1469-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-390MC
47µH	0.10	2.50	308-1471-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-470MC
56µH	0.11	2.35	308-1474-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-560MC
68µH	0.14	2.10	308-1475-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-680MC
82µH	0.16	1.95	308-1478-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-820MC
100µH	0.22	1.70	308-1458-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-101MC
120µH	0.25	1.60	308-1460-1-ND	3.27	2.97	2.21	738.00	CDRH127NP-121MC
150µH	0.28	1.42	308-1462-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-151MC
220µH	0.39	1.16	308-1465-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-221MC
330µH	0.64	0.95	308-1468-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-331MC
470µH	0.98	0.79	308-1472-1-ND	2.91	2.65	1.97	738.00	CDRH127NP-471MC

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CDR125

Standard SMD power inductor. EMI shielding to minimize crosstalk interference.

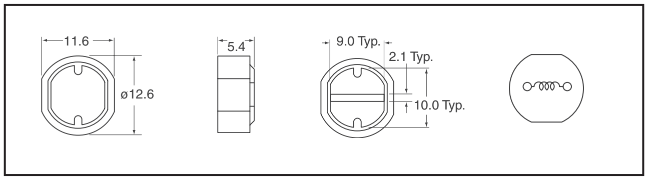

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing	Sumida Part No.
				1	10	100	500	
22µH	0.07	2.20	308-1020-1-ND	2.59	2.36	1.76	657.00	CDR125-220MC
RoHS Compliant								
10µH	.05	2.65	308-1426-1-ND	2.45	2.23	1.66	621.00	CDR125NP-100MC
22µH	0.07	2.20	308-1428-1-ND	2.45	2.23	1.66	621.00	CDR125NP-220MC
100µH	0.25	1.05	308-1427-1-ND	2.45	2.23	1.66	621.00	CDR125NP-101MC

* For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Series CEP125

High current handling and low DCR achieved in a small package with flat wire technology. Non-shielded.

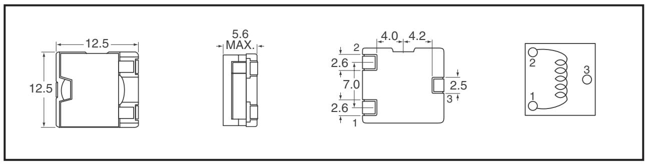

Inductance	D.C.R (Ω) (Maximum at 20°C)	Saturation Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 500	Sumida Part No.
0.8µH	.0022	25.7	308-1517-1-ND	3.87	3.52	2.62	981.00	CEP125NP-0R8NC-UD
1.0µH	.0022	20.0	308-1519-1-ND	3.87	3.52	2.62	981.00	CEP125NP-1R0MC-HD
1.0µH	.0025	20.0	308-1518-1-ND	3.87	3.52	2.62	981.00	CEP125NP-1R0MC-H
1.5µH	.0022	14.0	308-1520-1-ND	3.87	3.52	2.62	981.00	CEP125NP-1R5MC-D

* For Tape and Reel part number, change 1-ND to 2-ND.

Series CDEP134

High current handling and low DCR achieved in a small package with flat wire technology. EMI shielding to minimize crosstalk interference.

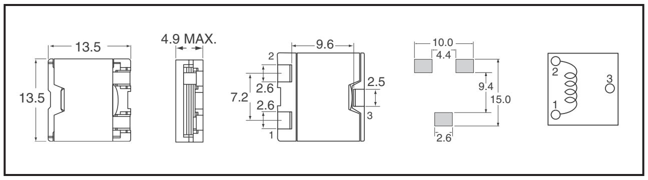

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 500	Sumida Part No.
4.8µH	.0120	9.3	308-1008-1-ND	4.47	4.07	3.03	1134.00	CDEP134-4R8MC
RoHS Compliant								
0.66µH	.0025	29.0	308-1416-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-0R6NC-H
1.2µH	.0037	21.0	308-1417-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-1R2MC-H
1.6µH	.0037	16.0	308-1418-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-1R6MC
3.6µH	.0120	12.5	308-1419-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-3R6MC-H
4.8µH	.0120	9.3	308-1420-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-4R8MC

* For Tape and Reel part number, change 1-ND to 2-ND.

Common Mode Chokes

Series LF2020

Applications: Noise prevention for TV, VCR, AV, OA equipment

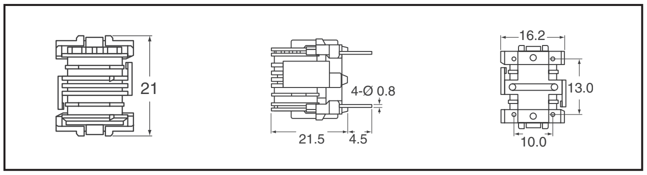

Inductance (Min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
22mH	2.04	0.4	308-1351-ND	1.65	1.37	1.06	LF2020NP-223

Series LF2115

A low profile type of the LF2020 Series.
Applications: Noise prevention for TV, VCR, AV, OA equipment

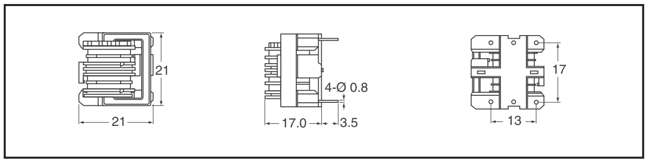

Inductance (Min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
18mH	1.63	0.5	308-1356-ND	6.30	5.22	4.05	LF2115NP-183

Series LF2420

Large inductance is possible with closed magnetic core.
Applications: Noise prevention for TV, VCR, AV, OA devices

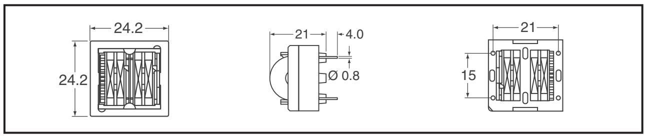

Inductance (Min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
35.0mH	1.58	0.6	308-1365-ND	3.05	2.53	1.96	LF2420NP-353

Series UU9LF

Small size common mode choke

Applications: Multi-function telephone, AC adapter, FAX, small size fluorescent light, VCR, TV

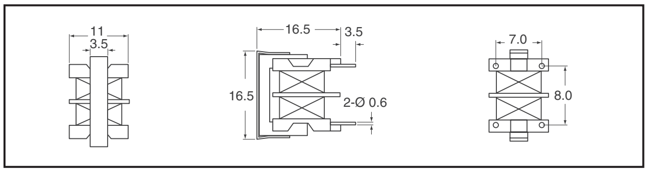

Inductance (Min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (mA)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
4.7mH	1.6	340	308-1377-ND	1.23	1.02	.79	UU9LFNP-B472

Series UU9LFH

Small size common mode choke.
Applications: Multi-function telephone, AC adapter, FAX, small size fluorescent light, VCR, TV

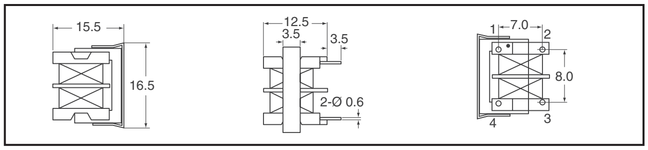

Inductance (Min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (mA)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
1.0mH	0.35	700	308-1387-ND	1.51	1.25	.97	UU9LFHNP-HB102
10.0mH	4.0	200	308-1392-ND	1.51	1.25	.97	UU9LFHNP-HB103

Series UU10LF

Small size common mode choke. **Applications:** VCR, TV

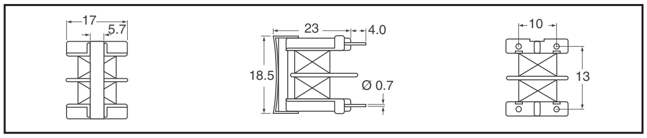

Inductance (Min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (mA)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
6.8mH	1.26	430	308-1394-ND	12.36	10.24	7.95	UU10LFNP-B682
33mH	5.74	200	308-1397-ND	12.36	10.24	7.95	UU10LFNP-B333

Series UU16LF

AC common mode choke coil which has excellent attenuation characteristics in low frequency band.
Applications: VCR, TV

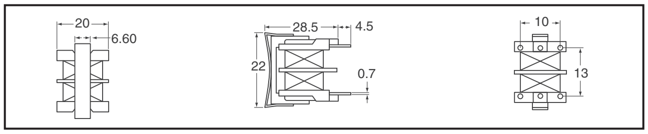

Inductance (Min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
8.0mH	0.46	0.9	308-1401-ND	3.05	2.53	1.96	UU16LFNP-802

OCTA-PAC®/ECONO-PAC™ Power Inductors and Transformers

These parts are commonly used in reference designs for manufacturers like Linear Technology, Texas Instruments, On-Semiconductor™, Maxim, National Semiconductor™, Fairchild Semiconductor®, Analog Devices and many more.

Features: • Surface mount magnetics that can be used as single or coupled inductors or 1:1 transformers that provide isolation between two windings • OCTA-PACs are designed around high frequency, low loss MPP core material • ECONO-PACs are a lower cost version of OCTA-PACs offering high saturation flux density **Applications:** • Computer and portable power devices • LCD panels, DVD players • Inductor: DC-DC converters • Buck, boost, forward and resonant converters • Noise filtering and filter chokes • Transformers: 1:1 300Vdc isolation, flyback, sepic **Specifications: • Operating Temperature Range:** -40°C ~ 85°C (Range is application specific) **Solder Reflow Temperature:** 260°C for 10 seconds maximum

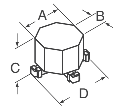

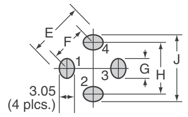

Series	Dimensions (mm) A (sq.)	B (ref.)	C (max.)	D	E	F	G	H	J
CTX-1,-1P	8.89	3.68	4.19	11.43	10.72	7.04	3.68	9.96	13.00
CTX-2,-2P	8.89	3.68	5.97	11.43	10.72	7.04	3.68	9.96	13.00
CTX-3,-3P	11.43	4.72	4.83	13.97	12.50	8.84	4.06	12.50	15.54
CTX-4,-4P	11.43	4.72	6.35	13.97	12.50	8.84	4.06	12.50	15.54

Connection Options:

Parallel Connection: Doubles the current capacity

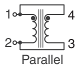

Series Connection: Four times the parallel inductance

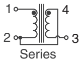

1:1 Ratio Transformer: For isolation and some flyback applications

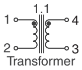

Parallel Connection				Series Connection					Cut Tape Price Each				Tape and Reel		
Open Circuit Inductance ±20% (µH)	Full Load Current DC (A)	Full Load Inductance Min. (µH)	DC Resistance Maximum (Ω)	Open Circuit Inductance ±20% (µH)	Full Load Current DC (A)	Full Load Inductance Min. (µH)	DC Resistance Maximum (Ω)	Digi-Key Part No.	1	10	100	Digi-Key Part No.	Qty.	Pricing	Coiltronics Part No.
OCTA-PAC Series															
4.70	3.00	2.66	.021	18.80	1.50	10.65	.084	513-1214-1-ND	4.72	4.29	3.20	513-1214-2-ND	800	1596.00	CTX5-2-R
4.90	4.40	2.59	.014	19.60	2.20	10.37	.056	513-1215-1-ND	4.87	4.43	3.30	513-1215-2-ND	600	1234.20	CTX5-4-R
9.60	3.40	4.82	.019	38.42	1.70	19.28	.078	513-1002-1-ND	5.42	4.93	3.67	513-1002-2-ND	600	1373.40	CTX10-4-R
10.00	1.90	4.85	.044	40.00	.95	19.40	.176	513-1003-1-ND	4.97	4.52	3.36	513-1003-2-ND	1,100	2100.00/M	CTX10-1-R
10.58	2.50	5.18	.031	42.30	1.25	20.72	.125	513-1004-1-ND	5.23	4.76	3.54	513-1004-2-ND	800	1768.80	CTX10-2-R
14.16	3.00	6.76	.024	56.64	1.50	27.03	.096	513-1202-1-ND	5.42	4.93	3.67	513-1202-2-ND	600	1373.40	CTX15-4-R
19.60	1.00	11.54	.146	78.40	.50	46.15	.583	513-1203-1-ND	4.97	4.52	3.36	513-1203-2-ND	1,100	2100.00/M	CTX20-1-R
19.60	2.10	10.68	.055	78.40	1.05	42.73	.220	513-1007-1-ND	5.42	4.93	3.67	513-1007-2-ND	600	1373.40	CTX20-4-R
20.18	1.50	10.76	.078	80.74	.75	43.04	.312	513-1008-1-ND	5.31	4.83	3.59	513-1008-2-ND	800	1793.60	CTX20-3-R
20.73	1.30	12.36	.107	82.91	.65	49.46	.426	513-1204-1-ND	5.23	4.76	3.54	513-1204-2-ND	800	1768.80	CTX20-2-R
25.92	2.00	13.32	.063	103.68	1.00	53.27	.253	513-1207-1-ND	5.42	4.93	3.67	513-1207-2-ND	600	1373.40	CTX25-4-R
31.77	1.40	15.90	.105	127.09	.70	63.59	.420	513-1210-1-ND	5.23	4.76	3.54	513-1210-2-ND	800	1768.80	CTX33-2-R
32.86	.96	19.69	.083	131.42	.48	78.77	.331	513-1012-1-ND	5.31	4.83	3.59	513-1012-2-ND	800	1793.60	CTX33-3-R
33.12	1.80	16.82	.072	132.50	.90	67.27	.287	513-1211-1-ND	5.42	4.93	3.67	513-1211-2-ND	600	1373.40	CTX33-4-R
50.18	1.50	25.03	.111	200.70	.75	100.11	.443	513-1014-1-ND	5.67	5.16	3.84	513-1014-2-ND	600	1438.20	CTX50-4-R
50.63	.64	29.34	.365	202.50	.32	117.38	1.461	513-1212-1-ND	5.25	4.78	3.56	513-1212-2-ND	1,100	2220.00/M	CTX50-1-R
51.18	.92	28.79	.210	204.73	.46	115.16	.839	513-1016-1-ND	5.49	4.99	3.72	513-1016-2-ND	800	1856.00	CTX50-2-R
67.08	1.20	35.29	.157	268.32	.60	141.15	.630	513-1216-1-ND	5.67	5.16	3.84	513-1216-2-ND	600	1438.20	CTX68-4-R
99.23	.44	58.72	.784	396.90	.22	234.88	3.137	513-1195-1-ND	5.25	4.78	3.56	513-1195-2-ND	1,100	2220.00/M	CTX100-1-R
99.23	.92	54.56	.302	396.90	.46	218.25	1.210	513-1198-1-ND	5.50	5.00	3.72	513-1198-2-ND	600	1395.00	CTX100-4-R
99.45	.63	57.45	.457	397.81	.32	229.79	1.828	513-1196-1-ND	5.49	4.99	3.72	513-1196-2-ND	800	1856.00	CTX100-2-R
101.40	.70	52.48	.345	405.60	.35	209.93	1.381	513-1197-1-ND	5.60	5.09	3.79	513-1197-2-ND	800	1892.80	CTX100-3-R
148.23	.82	77.17	.372	592.90	.41	308.69	1.488	513-1201-1-ND	5.67	5.16	3.84	513-1201-2-ND	600	1438.20	CTX150-4-R
200.70	.64	111.08	.545	802.82	.32	444.32	2.180	513-1023-1-ND	5.67	5.16	3.84	513-1023-2-ND	600	1438.20	CTX200-4-R
254.40	.60	122.30	.615	1017.60	.308	489.20	2.460	513-1206-1-ND	5.50	5.00	3.72	513-1206-2-ND	600	1395.00	CTX250-4-R
298.12	.62	147.92	.672	1192.46	.31	591.66	2.687	513-1208-1-ND	5.67	5.16	3.84	513-1208-2-ND	600	1438.20	CTX300-4-R
ECONO-PAC Series															
1.07	4.50	.73	.008	4.28	2.25	2.92	.032	513-1524-1-ND	2.85	2.60	1.93	513-1524-2-ND	1,100	1206.00/M	CTX1-1P-R
8.08	1.80	5.31	.052	32.33	.90	21.23	.207	513-1124-1-ND	2.85	2.60	1.93	513-1124-2-ND	1,100	1206.00/M	CTX8-1P-R
9.62	1.70	6.23	.057	38.48	.85	24.94	.227	513-1026-1-ND	2.85	2.60	1.93	513-1026-2-ND	1,100	1206.00/M	CTX10-1P-R
9.83	2.10	6.73	.045	39.30	1.05	26.92	.179	513-1199-1-ND	2.94	2.68	1.99	513-1199-2-ND	800	994.40	CTX10-2P-R
9.79	2.70	5.71	.033	39.15	1.35	22.85	.131	513-1544-1-ND ***NEW!***	2.94	2.68	1.99	513-1544-2-ND ***NEW!***	800	994.40	CTX10-3P-R
9.88	2.50	6.70	.047	39.53	1.25	26.79	.187	513-1200-1-ND	2.94	2.68	1.99	513-1200-2-ND	600	745.80	CTX10-4P-R
19.58	1.50	13.37	.097	78.34	.75	53.48	.387	513-1029-1-ND	2.94	2.68	1.99	513-1029-2-ND	800	994.40	CTX20-2P-R
20.62	1.90	13.44	.084	82.47	.95	53.76	.337	513-1205-1-ND	2.94	2.68	1.99	513-1205-2-ND	600	745.80	CTX20-4P-R
24.79	1.40	16.60	.109	99.14	.70	66.38	.436	513-1235-1-ND	2.94	2.68	1.99	513-1235-2-ND	800	994.40	CTX25-2P-R
32.33	.80	22.27	.250	129.32	.40	89.06	1.001	513-1209-1-ND	2.85	2.60	1.93	513-1209-2-ND	1,100	1206.00/M	CTX33-1P-R
32.67	1.30	21.29	.126	130.70	.65	85.17	.503	513-1033-1-ND	2.94	2.68	1.99	513-1033-2-ND	800	994.40	CTX33-2P-R
48.80	1.20	32.21	.201	195.20	.60	128.83	.805	513-1213-1-ND	2.94	2.68	1.99	513-1213-2-ND	600	745.80	CTX50-4P-R
67.37	1.10	43.04	.238	269.50	.55	172.16	.952	513-1035-1-ND	2.94	2.68	1.99	513-1035-2-ND	600	745.80	CTX68-4P-R
99.01	.54	63.64	.557	396.06	.27	254.55	2.227	513-1036-1-ND	2.85	2.60	1.93	513-1036-2-ND	1,100	1206.00/M	CTX100-1P-R
201.59	.46	138.49	.951	806.34	.23	553.97	3.804	513-1545-1-ND ***NEW!***	3.44	3.13	2.33	513-1545-2-ND ***NEW!***	800	1163.20	CTX200-2P-R
300.42	.42	197.52	1.176	1201.70	.21	790.08	4.703	513-1546-1-ND ***NEW!***	2.94	2.68	1.99	513-1546-2-ND ***NEW!***	800	994.40	CTX300-2P-R

UNI-PAC™ and Amorphous Surface Mount Power Inductors

Features:
These specified parts are designed for use in National Semiconductors Webench program, but are also used in many power applications like DC-DC converters and battery powered equipment. Miniature size with maximum power density and are rugged enough for design in high shock environments.
Specifications: • Operating Temperature Range: -40°C ~ 85°C **• Solder Reflow Temperature:** 260°C for 10 seconds maximum

Fig. 1

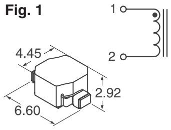

Fig. 2

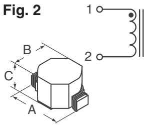

Series	Dimensions – Max. (mm) A	B	C
UP1B	8.89	6.10	5.0
UP2B	13.97	10.41	6.0
UP2C	12.90	9.40	5.2

Fig. 3

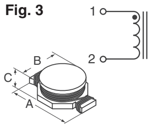

Series	**Dimensions – Max. (mm)** **A**	**B**	**C**
UP2	13.74	8.76	5.87
UP3B	19.30	13.21	6.8
CTX01	17.70	12.85	7.55
UP4B	22.10	15.00	7.87

Fig. 4

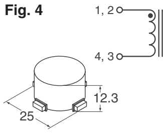

Fig.	Rated Inductance (µH)	OCL(1) ± 20% (µH)	IRMS(2) Amperes	ISAT(3) Amperes	DCR(4) (Ω) (Maximum)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
UP0.4C Series													
1	22	21.8	0.76	0.77	0.360	513-1061-1-ND	.99	.90	.67	513-1061-2-ND	2,500	419.00/M	UP0.4C-220-R
	33	32.2	0.64	0.63	0.560	513-1063-1-ND	.99	.90	.67	513-1063-2-ND	2,500	419.00/M	UP0.4C-330-R
	47	46.5	0.53	0.53	0.820	513-1064-1-ND	.99	.90	.67	513-1064-2-ND	2,500	419.00/M	UP0.4C-470-R
	68	68.2	0.45	0.43	1.10	513-1227-1-ND	.99	.90	.67	513-1227-2-ND	2,500	419.00/M	UP0.4C-680-R
	100	102.5	0.37	0.35	1.58	513-1060-1-ND	.99	.90	.67	513-1060-2-ND	2,500	419.00/M	UP0.4C-101-R
UP1B Series													
2	0.47	0.569	6.0	7.7	0.0097	513-1183-1-ND	1.10	1.00	.75	513-1183-2-ND	900	417.60	UP1B-R47-R
	1.0	1.20	4.4	5.3	0.0177	513-1181-1-ND	1.10	1.00	.75	513-1181-2-ND	900	417.60	UP1B-1R0-R
	4.7	5.15	2.2	2.6	0.0544	513-1182-1-ND	1.10	1.00	.75	513-1182-2-ND	900	417.60	UP1B-4R7-R
	10.0	11.00	1.5	1.9	0.1107	513-1180-1-ND	1.10	1.00	.75	513-1180-2-ND	900	417.60	UP1B-100-R
	15.0	16.00	1.2	1.5	0.1747	513-1228-1-ND	1.10	1.00	.75	513-1228-2-ND	900	417.60	UP1B-150-R
	22.0	23.50	1.0	1.2	0.2541	513-1069-1-ND	1.10	1.00	.75	513-1069-2-ND	900	417.60	UP1B-220-R
	33.0	36.00	0.82	0.99	0.3670	513-1071-1-ND	1.10	1.00	.75	513-1071-2-ND	900	417.15	UP1B-330-R
	47.0	48.50	0.72	0.87	0.4740	513-1073-1-ND	1.10	1.00	.75	513-1073-2-ND	900	417.60	UP1B-470-R
	68.0	73.52	0.58	0.67	0.7320	513-1074-1-ND	1.10	1.00	.75	513-1074-2-ND	900	417.60	UP1B-680-R
	100.0	112.67	0.47	0.53	1.11	513-1066-1-ND	1.10	1.00	.75	513-1066-2-ND	900	417.60	UP1B-101-R
	150.0	152.40	0.40	0.46	1.61	513-1229-1-ND	1.10	1.00	.75	513-1229-2-ND	900	417.60	UP1B-151-R
	220.0	223.10	0.36	0.38	1.96	513-1070-1-ND	1.10	1.00	.75	513-1070-2-ND	900	417.60	UP1B-221-R
	330.0	331.90	0.28	0.31	3.10	513-1072-1-ND	1.10	1.00	.75	513-1072-2-ND	900	417.60	UP1B-331-R

‡ Tolerance is ±25% **Note (1):** Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C at an ambient temperature of 85°C
Note (3): Peak current for approximately 30% rolloff UP0.4C, UP1B, 3B, 4B. 10% roll off UP2B at 20°C **Note (4):** DCR limits 20°C

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

COILTRONICS

UNI-PAC™ and Amorphous Surface Mount Power Inductors *(Cont.)*

Fig.	Rated Inductance (µH)	OCL(1) ± 20% (µH)	IRMS(2) Amperes	ISAT(3) Amperes	DCR(4) (Ω) (Maximum)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Coiltronics Part No.
							1	10	100		Qty.	Pricing	
UP2B Series													
2	1.0	1.00	9.3	9.9	0.0065	513-1186-1-ND	1.32	1.20	.90	513-1186-2-ND	550	306.35	UP2B-1R0-R
	2.2	2.56	7.2	6.1	0.0107	513-1556-1-ND ***NEW!***	1.32	1.20	.90	513-1556-2-ND ***NEW!***	550	306.35	UP2B-2R2-R
	4.7	4.77	5.5	4.2	0.0165	513-1187-1-ND	1.32	1.20	.90	513-1187-2-ND	550	306.35	UP2B-4R7-R
	10.0	9.73	4.3	3.3	0.0267	513-1185-1-ND	1.32	1.20	.90	513-1185-2-ND	550	306.35	UP2B-100-R
	15.0	15.43	3.5	2.4	0.0410	513-1076-1-ND	1.32	1.20	.90	513-1076-2-ND	550	306.35	UP2B-150-R
	22.0	22.50	2.8	2.0	0.0617	513-1230-1-ND	1.32	1.20	.90	513-1230-2-ND	550	306.35	UP2B-220-R
	33.0	33.13	2.1	1.7	0.0917	513-1080-1-ND	1.32	1.20	.90	513-1080-2-ND	550	306.35	UP2B-330-R
	47.0	48.65	1.7	1.4	0.1388	513-1082-1-ND	1.32	1.20	.90	513-1082-2-ND	550	306.35	UP2B-470-R
	68.0	68.17	1.5	1.2	0.1787	513-1083-1-ND	1.32	1.20	.90	513-1083-2-ND	550	306.35	UP2B-680-R
	100.0	102.60	1.2	0.95	0.2707	513-1075-1-ND	1.32	1.20	.90	513-1075-2-ND	550	306.35	UP2B-101-R
	150.0	150	1.0	0.77	0.4100	513-1077-1-ND	1.32	1.20	.90	513-1077-2-ND	550	306.35	UP2B-151-R
	220.0	223	0.773	0.637	0.6717	513-1079-1-ND	1.32	1.20	.90	513-1079-2-ND	550	306.35	UP2B-221-R
	330.0	338	0.676	0.510	0.8783	513-1081-1-ND	1.32	1.20	.90	513-1081-2-ND	550	306.35	UP2B-331-R
UP2C Series													
2	33.0	32.11	2.16	2.20	79.7	513-1188-1-ND	1.43	1.30	.97	513-1188-2-ND	900	542.70	UP2C-330-R
UP2 Series													
3	100	102.60	1.4	0.95	0.2772	513-1184-1-ND	1.90	1.73	1.29	513-1184-2-ND	600	482.40	UP2-101-R
UP3B Series													
3	4.7	5.00	6.5	7.7	0.0114	513-1557-1-ND ***NEW!***	1.61	1.47	1.09	513-1557-2-ND ***NEW!***	450	306.45	UP3B-4R7-R
	10.0	11.00	4.3	5.2	0.0260	513-1084-1-ND	1.61	1.47	1.09	513-1084-2-ND	450	306.45	UP3B-100-R
	15.0	16.38	3.9	4.3	0.0317	513-1231-1-ND	1.61	1.47	1.09	513-1231-2-ND	450	306.45	UP3B-150-R
	22.0	22.93	3.1	3.7	0.0490	513-1088-1-ND	1.61	1.47	1.09	513-1088-2-ND	450	306.45	UP3B-220-R
	33.0	33.85	2.4	3.0	0.0688	513-1089-1-ND	1.61	1.47	1.09	513-1089-2-ND	450	306.45	UP3B-330-R
	47.0	51.00	1.9	2.4	0.1082	513-1232-1-ND	1.61	1.47	1.09	513-1232-2-ND	450	306.45	UP3B-470-R
	68.0	69.50	1.6	2.0	0.1558	513-1092-1-ND	1.61	1.47	1.09	513-1092-2-ND	450	306.45	UP3B-680-R
	100.0	101.40	1.4	1.8	0.2053	513-1085-1-ND	1.61	1.47	1.09	513-1085-2-ND	450	306.45	UP3B-101-R
	120.0	120.0‡	2.0	1.7	0.0620	513-1539-1-ND† ***NEW!***	1.42	1.29	.96	513-1539-2-ND† ***NEW!***	400	240.00	CTX01-16025-R
	150.0	152.9	1.2	1.4	0.2960	513-1087-1-ND	1.61	1.47	1.09	513-1087-2-ND	450	306.45	UP3B-151-R
	330.0	332.80	0.75	0.98	0.7330	513-1090-1-ND	1.61	1.47	1.09	513-1090-2-ND	450	306.45	UP3B-331-R
UP4B Series													
3	1.0	0.916	17.3	37.3	0.0023	513-1189-1-ND	1.83	1.67	1.24	513-1189-2-ND	275	212.57	UP4B-1R0-R
	1.5	1.52	13.4	28.9	0.0039	513-1190-1-ND	1.83	1.67	1.24	513-1190-2-ND	275	212.57	UP4B-1R5-R
	15.0	15.61	5.5	9.1	0.0230	513-1094-1-ND	1.83	1.67	1.24	513-1094-2-ND	275	212.57	UP4B-150-R
	22.0	22.61	4.5	7.6	0.0340	513-1096-1-ND	1.83	1.67	1.24	513-1096-2-ND	275	212.57	UP4B-220-R
	47.0	48.10	3.1	5.2	0.0740	513-1098-1-ND	1.83	1.67	1.24	513-1098-2-ND	275	212.57	UP4B-470-R
	68.0	69.14	2.4	4.3	0.1200	513-1099-1-ND	1.83	1.67	1.24	513-1099-2-ND	275	212.57	UP4B-680-R
	100.0	99.42	2.0	3.6	0.1700	513-1093-1-ND	1.83	1.67	1.24	513-1093-2-ND	275	212.57	UP4B-101-R
	150.0	146.90	1.7	3.0	0.2392	513-1233-1-ND	1.83	1.67	1.24	513-1233-2-ND	275	212.57	UP4B-151-R
	220.0	221.40	1.4	2.4	0.3571	513-1234-1-ND	1.83	1.67	1.24	513-1234-2-ND	275	212.57	UP4B-221-R
CTX06 Series													
4	22	23.1‡	8.5	6.8	0.0117	513-1102-ND	6.89	6.26	4.66	—	—	—	CTX06-14622
	33	34.1‡	7.7	7.7	0.0141	513-1101-ND	6.96	6.33	4.71	—	—	—	CTX06-14621
	47	47.2‡	7.1	8.5	0.0166	513-1100-ND	9.09	8.26	6.15	—	—	—	CTX06-14620

‡ Tolerance is ±25% **Note (1):** Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C at an ambient temperature of 85°C **Note (3):** Peak current for approximately 30% rolloff UP0.4C, UP1B, 3B, 4B. 10% roll off UP2B at 20°C **Note (4):** DCR limits 20°C † CTX01 Series – Mechanical package is similar to the UP3B Series. See data sheet for more information.

Shielded High Power Inductors — DR Series (SMD)

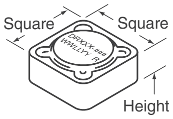

Series	Dimensions – Maximum (mm)	
	Square	Height
DR73	7.6	3.55
DR74	7.6	4.35
DR124	12.3	4.50
DR125	12.5	6.00
DR127	12.5	8.00

Features: Designed for use in many power applications, DC-DC converters, LCD panels, Computer, DVD players and portable power devices.

Specifications: • Operating Temperature Range: -40°C ~ 125°C **• Solder Reflow Temperature:** 260°C for 10 seconds maximum

Rated Inductance (µH)	OCL(1) ± 20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Amperes Peak	DCR(4) (Ω) (Typ.)	Volt-µSec(5) Typ.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Coiltronics Part No.
							1	10	100		Qty.	Pricing	
DR73 Series													
1.00	0.992	5.28	7.97	0.0102	3.56	513-1130-1-ND	1.57	1.43	1.07	513-1130-2-ND	1,350	665.00/M	DR73-1R0-R
1.50	1.482	4.67	6.52	0.0130	4.36	513-1132-1-ND	1.57	1.43	1.07	513-1132-2-ND	1,350	665.00/M	DR73-1R5-R
2.20	2.070	4.15	5.52	0.0165	5.15	513-1533-1-ND	1.57	1.43	1.07	513-1533-2-ND	1,350	665.00/M	DR73-2R2-R
3.30	3.540	3.31	4.22	0.0259	6.73	513-1534-1-ND	1.57	1.43	1.07	513-1534-2-ND	1,350	665.00/M	DR73-3R3-R
4.70	4.422	3.09	3.78	0.0297	7.52	513-1133-1-ND	1.57	1.43	1.07	513-1133-2-ND	1,350	665.00/M	DR73-4R7-R
6.80	6.480	2.55	3.12	0.0435	9.11	513-1134-1-ND	1.57	1.43	1.07	513-1134-2-ND	1,350	665.00/M	DR73-6R8-R
10.0	10.30	2.08	2.47	0.0656	11.5	513-1129-1-ND	1.57	1.43	1.07	513-1129-2-ND	1,350	665.00/M	DR73-100-R
15.0	15.01	1.83	2.05	0.0844	13.9	513-1135-1-ND	1.57	1.43	1.07	513-1135-2-ND	1,350	665.00/M	DR73-150-R
22.0	22.65	1.62	1.67	0.107	17.0	513-1532-1-ND	1.57	1.43	1.07	513-1532-2-ND	1,350	665.00/M	DR73-220-R
33.0	34.41	1.31	1.35	0.1660	21.0	513-1131-1-ND	1.57	1.43	1.07	513-1131-2-ND	1,350	665.00/M	DR73-330-R
47.0	48.62	1.08	1.14	0.2410	24.9	513-1136-1-ND	1.57	1.43	1.07	513-1136-2-ND	1,350	665.00/M	DR73-470-R
100	101.4	0.73	0.79	0.527	36.0	513-1531-1-ND	1.57	1.43	1.07	513-1531-2-ND	1,350	665.00/M	DR73-101-R
DR74 Series													
1.00	0.952	5.39	10.2	0.0099	3.08	513-1139-1-ND	1.61	1.47	1.09	513-1139-2-ND	1,100	681.00/M	DR74-1R0-R
1.50	1.422	4.94	8.35	0.0118	3.76	513-1389-1-ND	1.61	1.47	1.09	513-1389-2-ND	1,100	681.00/M	DR74-1R5-R
2.20	1.986	4.76	7.06	0.0126	4.45	513-1140-1-ND	1.61	1.47	1.09	513-1140-2-ND	1,100	681.00/M	DR74-2R2-R
4.70	5.182	3.34	4.37	0.0254	7.18	513-1550-1-ND ***NEW!***	1.61	1.47	1.09	513-1550-2-ND ***NEW!***	1,100	681.00/M	DR74-4R7-R
6.80	7.344	2.60	3.67	0.0418	8.55	513-1536-1-ND	1.61	1.47	1.09	513-1536-2-ND	1,100	681.00/M	DR74-6R8-R
10.0	9.882	2.41	3.17	0.0489	9.92	513-1137-1-ND	1.61	1.47	1.09	513-1137-2-ND	1,100	681.00/M	DR74-100-R
15.0	16.09	2.11	2.48	0.0637	12.7	513-1138-1-ND	1.61	1.47	1.09	513-1138-2-ND	1,100	681.00/M	DR74-150-R
22.0	21.73	1.75	2.13	0.0925	14.7	513-1390-1-ND	1.61	1.47	1.09	513-1390-2-ND	1,100	681.00/M	DR74-220-R
33.0	33.01	1.41	1.73	0.143	18.1	513-1141-1-ND	1.61	1.47	1.09	513-1141-2-ND	1,100	681.00/M	DR74-330-R
47.0	49.64	1.15	1.41	0.216	22.2	513-1535-1-ND	1.61	1.47	1.09	513-1535-2-ND	1,100	681.00/M	DR74-470-R
100	101.6	0.86	0.99	0.383	31.8	513-1225-1-ND	1.61	1.47	1.09	513-1225-2-ND	1,100	681.00/M	DR74-101-R
150	150.0	0.69	0.81	0.591	38.6	513-1388-1-ND	1.61	1.47	1.09	513-1388-2-ND	1,100	681.00/M	DR74-151-R
220	227.0	0.56	0.66	0.907	47.5	513-1391-1-ND	1.61	1.47	1.09	513-1391-2-ND	1,100	681.00/M	DR74-221-R
330	335.6	0.45	0.54	1.41	57.8	513-1392-1-ND	1.61	1.47	1.09	513-1392-2-ND	1,100	681.00/M	DR74-331-R
1000	1009	0.27	0.31	3.89	100	513-1387-1-ND	1.61	1.47	1.09	513-1387-2-ND	1,100	681.00/M	DR74-102-R
DR124 Series													
1.0	0.83	13.9	18.00	.003	—	513-1427-1-ND	1.65	1.50	1.12	513-1427-2-ND	750	522.00	DR124-1R0-R
1.5	1.37	11.1	14.00	.00475	—	513-1428-1-ND	1.65	1.50	1.12	513-1428-2-ND	750	522.00	DR124-1R5-R
2.2	2.04	9.1	11.45	.00592	—	513-1429-1-ND	1.65	1.50	1.12	513-1429-2-ND	750	522.00	DR124-2R2-R
4.7	4.88	6.5	7.65	.01350	—	513-1430-1-ND	1.65	1.50	1.12	513-1430-2-ND	750	522.00	DR124-4R7-R
10	8.94	4.5	5.80	.02333	—	513-1431-1-ND	1.65	1.50	1.12	513-1431-2-ND	750	522.00	DR124-100-R
12	11.5	4.1	4.96	.03167	—	513-1432-1-ND	1.65	1.50	1.12	513-1432-2-ND	750	522.00	DR124-120-R
15	14.2	3.6	4.62	.03730	—	513-1433-1-ND	1.65	1.50	1.12	513-1433-2-ND	750	522.00	DR124-150-R
22	20.7	3.2	3.83	.05399	—	513-1434-1-ND	1.65	1.50	1.12	513-1434-2-ND	750	522.00	DR124-220-R
33	31.2	2.6	3.12	.08083	—	513-1435-1-ND	1.65	1.50	1.12	513-1435-2-ND	750	522.00	DR124-330-R
47	44.0	2.2	2.63	.12466	—	513-1436-1-ND	1.65	1.50	1.12	513-1436-2-ND	750	522.00	DR124-470-R
100	95.1	1.5	1.79	.25667	—	513-1437-1-ND	1.65	1.50	1.12	513-1437-2-ND	750	522.00	DR124-101-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. **Note (3):** Peak current for approximately 30% roll off at 20°C **Note (4):** DCR limits 20°C **Note (5):** Applied Volt-Time product (V-µS) across the inductor at 100kHz necessary to generate a core loss equal to 10% of the total losses for 40°C temperature rise.

(Continued)

COILTRONICS® Shielded High Power Inductors — DR Series (SMD) *(Cont.)*

Digi-Reel® RoHS

Rated Inductance (µH)	OCL(1) ± 20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Amperes Peak	DCR(4) (Ω) (Typ.)	Volt-µSec(5) Typ.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
220	216	1.0	1.15	.55800	—	513-1438-1-ND	1.65	1.50	1.12	513-1438-2-ND	750	522.00	DR124-221-R
330	327	0.83	0.92	.82500	—	513-1439-1-ND	1.65	1.50	1.12	513-1439-2-ND	750	522.00	DR124-331-R
						DR125 Series							
1.00	0.894	15.0	23.6	0.0024	4.43	513-1126-1-ND	1.65	1.50	1.12	513-1126-2-ND	600	417.60	DR125-1R0-R
3.30	3.084	9.26	12.7	0.0063	8.23	513-1529-1-ND	1.65	1.50	1.12	513-1529-2-ND	600	417.60	DR125-3R3-R
4.70	5.274	7.18	9.71	0.0105	10.8	513-1125-1-ND	1.65	1.50	1.12	513-1125-2-ND	600	417.60	DR125-4R7-R
6.80	6.588	6.64	8.68	0.0123	12.0	513-1530-1-ND	1.65	1.50	1.12	513-1530-2-ND	600	417.60	DR125-6R8-R
10.0	9.654	5.35	7.17	0.0189	14.6	513-1525-1-ND	1.65	1.50	1.12	513-1525-2-ND	600	417.60	DR125-100-R
15.0	15.35	4.27	5.69	0.0298	18.4	513-1527-1-ND	1.65	1.50	1.12	513-1527-2-ND	600	417.60	DR125-150-R
22.0	22.36	3.70	4.71	0.0396	22.2	513-1127-1-ND	1.65	1.50	1.12	513-1127-2-ND	600	417.60	DR125-220-R
33.0	33.74	3.28	3.84	0.0505	27.2	513-1528-1-ND	1.65	1.50	1.12	513-1528-2-ND	600	417.60	DR125-330-R
47.0	47.47	2.71	3.24	0.0740	32.3	513-1128-1-ND	1.65	1.50	1.12	513-1128-2-ND	600	417.60	DR125-470-R
68.0	67.91	2.22	2.70	0.101	38.6	513-1386-1-ND	1.65	1.50	1.12	513-1386-2-ND	600	417.60	DR125-680-R
100	102.7	1.78	2.20	0.170	47.5	513-1526-1-ND	1.65	1.50	1.12	513-1526-2-ND	600	417.60	DR125-101-R
220	216.8	1.19	1.51	0.384	69.0	513-1549-1-ND ***NEW!***	1.65	1.50	1.12	513-1549-2-ND ***NEW!***	600	417.60	DR125-221-R
						DR127 Series							
0.47	0.419	17.9	56.0	0.00195	3.50	513-1059-1-ND	1.78	1.62	1.20	513-1059-2-ND	350	262.50	DR127-R47-R
1.00	0.821	15.5	40.0	0.00313	4.90	513-1218-1-ND	1.78	1.62	1.20	513-1218-2-ND	350	262.50	DR127-1R0-R
1.50	1.357	13.5	31.1	0.00341	6.30	513-1219-1-ND	1.78	1.62	1.20	513-1219-2-ND	350	262.50	DR127-1R5-R
2.20	2.027	12.5	25.5	0.00402	7.70	513-1220-1-ND	1.78	1.62	1.20	513-1220-2-ND	350	262.50	DR127-2R2-R
3.30	2.831	10.5	21.5	0.00567	9.10	513-1221-1-ND	1.78	1.62	1.20	513-1221-2-ND	350	262.50	DR127-3R3-R
4.70	4.841	8.25	16.5	0.00917	11.9	513-1222-1-ND	1.78	1.62	1.20	513-1222-2-ND	350	262.50	DR127-4R7-R
6.80	7.387	7.34	13.3	0.0116	14.7	513-1055-1-ND	1.78	1.62	1.20	513-1055-2-ND	350	262.50	DR127-6R8-R
8.20	8.861	6.32	12.2	0.0157	16.1	513-1058-1-ND	1.78	1.62	1.20	513-1058-2-ND	350	262.50	DR127-8R2-R
10.0	10.47	6.04	11.2	0.0172	17.5	513-1037-1-ND	1.78	1.62	1.20	513-1037-2-ND	350	262.50	DR127-100-R
15.0	14.09	5.03	9.66	0.0247	20.3	513-1040-1-ND	1.78	1.62	1.20	513-1040-2-ND	350	262.50	DR127-150-R
22.0	22.93	4.00	7.57	0.0391	25.9	513-1044-1-ND	1.78	1.62	1.20	513-1044-2-ND	350	262.50	DR127-220-R
33.0	33.92	3.23	6.22	0.0600	31.5	513-1047-1-ND	1.78	1.62	1.20	513-1047-2-ND	350	262.50	DR127-330-R
47.0	47.05	2.95	5.28	0.0719	37.1	513-1050-1-ND	1.78	1.62	1.20	513-1050-2-ND	350	262.50	DR127-470-R
68.0	66.48	2.44	4.44	0.105	44.1	513-1053-1-ND	1.78	1.62	1.20	513-1053-2-ND	350	262.50	DR127-680-R
82.0	79.75	2.09	4.06	0.143	48.3	513-1056-1-ND	1.78	1.62	1.20	513-1056-2-ND	350	262.50	DR127-820-R
100	99.31	1.96	3.64	0.163	53.9	513-1038-1-ND	1.72	1.57	1.17	513-1038-2-ND	350	276.15	DR127-101-R
150	144.9	1.59	3.01	0.247	65.1	513-1041-1-ND	1.78	1.62	1.20	513-1041-2-ND	350	262.50	DR127-151-R
220	221.5	1.29	2.43	0.376	80.5	513-1045-1-ND	1.78	1.62	1.20	513-1045-2-ND	350	262.50	DR127-221-R
330	323.6	1.04	2.01	0.574	97.3	513-1048-1-ND	1.78	1.62	1.20	513-1048-2-ND	350	262.50	DR127-331-R
470	467.1	0.85	1.68	0.861	117	513-1051-1-ND	1.78	1.62	1.20	513-1051-2-ND	350	262.50	DR127-471-R
680	676.7	0.76	1.39	1.08	141	513-1223-1-ND	1.78	1.62	1.20	513-1223-2-ND	350	262.50	DR127-681-R
820	818.1	0.65	1.27	1.47	155	513-1224-1-ND	1.78	1.62	1.20	513-1224-2-ND	350	262.50	DR127-821-R
1000	1005	0.61	1.14	1.66	172	513-1217-1-ND	1.78	1.62	1.20	513-1217-2-ND	350	262.50	DR127-102-R

Note (1): Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. **Note (3):** Peak current for approximately 30% roll off at 20°C **Note (4):** DCR limits at 20°C **Note (5):** Applied Volt-Time product (V-µS) across the inductor at 100KHz necessary to generate a core loss equal to 10% of the total losses for 40°C temperature rise.

Shielded Low Profile, High Power Inductors – SD Series (SMD)

Specifications: • Operating Temperature: -40°C ~ 85°C **• Solder Reflow Temperature:** 240°C for 30 seconds maximum, 260°C for 10 seconds maximum for RoHS Compliant components

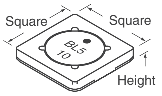

Series	Dimensions – Max. (mm) Square	Height
SD10	5.20	1.00
SD14	5.20	1.45

RoHS Digi-Reel®

Rated Inductance (µH)	OCL(1) ± 20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Amperes Peak	DCR(4) (Ω) Typ.	Volt-µSec(5) Typ.	Part Marking	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 3,800	Coiltronics Part No.
							SD10 Series						
1.00	1.119	1.93	2.25	0.0448	3.3	B	513-1168-1-ND	1.79	1.63	1.22	513-1168-2-ND	758.00/M	SD10-1R0-R
2.20	2.081	1.35	1.65	0.0912	4.5	D	513-1169-1-ND	1.79	1.63	1.22	513-1169-2-ND	758.00/M	SD10-2R2-R
3.30	3.339	1.24	1.31	0.1078	5.7	E	513-1170-1-ND	1.79	1.63	1.22	513-1170-2-ND	758.00/M	SD10-3R3-R
4.70	4.893	1.04	1.08	0.1535	6.9	F	513-1226-1-ND	1.79	1.63	1.22	513-1226-2-ND	758.00/M	SD10-4R7-R
6.20	6.743	0.94	0.92	0.218	8.1	G	513-1172-1-ND	1.79	1.63	1.22	513-1172-2-ND	758.00/M	SD10-6R2-R
8.20	8.889	0.800	0.800	0.2607	9.3	H	513-1173-1-ND	1.79	1.63	1.22	513-1173-2-ND	758.00/M	SD10-8R2-R
10.0	10.07	0.760	0.752	0.336	9.9	J	513-1167-1-ND	1.79	1.63	1.22	513-1167-2-ND	758.00/M	SD10-100-R
							SD14 Series						
3.2	3.19	1.94	2.08	0.0663	7.9	G	513-1176-1-ND	1.79	1.63	1.22	513-1176-2-ND	758.00/M	SD14-3R2-R
4.5	4.53	1.64	1.74	0.0935	9.4	H	513-1177-1-ND	1.79	1.63	1.22	513-1177-2-ND	758.00/M	SD14-4R5-R
6.9	6.98	1.35	1.41	0.1363	11.6	J	513-1178-1-ND	1.79	1.63	1.22	513-1178-2-ND	758.00/M	SD14-6R9-R
8.8	8.88	1.14	1.25	0.1913	13.1	K	513-1179-1-ND	1.79	1.63	1.22	513-1179-2-ND	758.00/M	SD14-8R8-R
10	9.93	1.1	1.18	0.2058	13.9	L	513-1174-1-ND	1.79	1.63	1.22	513-1174-2-ND	758.00/M	SD14-100-R

Note (1): Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. **Note (3):** Peak current for approximate 30% roll off at 20°C. **Note (4):** DCR limits 20°C. **Note (5):** Applied Volt-Time product (V-uS) across the inductor at 100kHz necessary to generate a core loss equal to 10% of the total losses for 40°C temperature rise.

Dual Winding, Shielded Inductors/Transformers DRQ/Low Profile — SDQ Series (SMD)

Features: Dual winding inductors can be used as either a single inductor, or in coupled inductor/transformer applications (1:1 turns ratio), offering a broad range of inductance and current ratings.

Specifications: • Operating Temperature: -40°C ~ 125°C, SDQ Series -40°C ~ 85°C (ranges are application specific)

- **Solder Reflow Temperature:** 260°C for 10 second maximum, 200VAC isolation between windings. Turns Ratio: (1-2):(3-4) 1:1

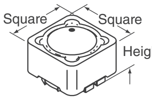

RoHS Digi-Reel®

Series	Dimensions – Max. (mm) Square	Height
SDQ12	5.2	1.20
DRQ73	7.6	3.55
DRQ74	7.6	4.45
DRQ125	12.5	6.00
DRQ127	12.5	8.00

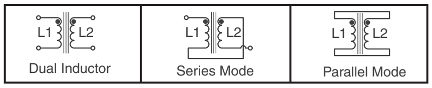

Rated Inductance (µH)	Parallel Ratings OCL(1) ±20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) (Amperes Peak)	DCR(4) (Ω) (Typ.)	Volt(5) µSec.	Series Ratings OCL(1) ±20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) (Amperes Peak)	DCR(4) (Ω) (Typ.)	Volt(5) µSec.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Coiltronics Part No.
											SDQ12 Series						
8.2	8.41	0.868	1.05	0.3318	10.15	33.64	0.434	0.524	1.33	20.3	513-1112-1-NDΔ	1.98	1.80	1.34	3,800	836.00/M	SDQ12-8R2-R
											DRQ73 Series						
0.33	0.306	6.19	14.4	0.0074	1.98	1.224	3.10	7.18	0.0296	3.96	513-1236-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-R33-R
1.00	0.992	5.25	7.97	0.0103	3.56	3.968	2.63	3.99	0.0411	7.12	513-1237-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-1R0-R
1.50	1.482	4.64	6.52	0.0132	4.36	5.928	2.32	3.26	0.0527	8.72	513-1238-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-1R5-R
2.20	2.070	4.11	5.52	0.0167	5.15	8.280	2.06	2.76	0.0669	10.3	513-1239-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-2R2-R

Note (1): Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. **Note (3):** Peak current for approximately 30% roll off at 20°C **Note (4):** DCR limits at 20°C **Note (5):** Applied Volt-Time product (V-µS) across the inductor at 100kHz necessary to generate a core loss equal to 10% of the total losses for a 40°C temperature rise.

‡ For Tape and Reel part number, change 1-ND to 2-ND. Δ Part Marking: H

(Continued)

Dual Winding, Shielded Inductors / Transformers
DRQ/Low Profile - SDQ Series (SMD) *(Cont.)*

Rated Inductance (µH)	Parallel Ratings					Series Ratings					Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Coiltronics Part No.
	OCL(1) ±20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) (Amperes Peak)	DCR(4) (Ω) (Typ.)	Volt(5) µSec.	OCL(1) ±20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) (Amperes Peak)	DCR(4) (Ω) (Typ.)	Volt(5) µSec.		1	10	100	Qty.	Pricing	
3.30	3.540	3.31	4.22	0.0259	6.73	14.16	1.66	2.11	0.1035	13.5	513-1240-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-3R3-R
4.70	4.422	3.09	3.78	0.0297	7.52	17.69	1.55	1.89	0.1188	15.0	513-1241-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-4R7-R
6.80	6.480	2.55	3.12	0.0435	9.11	25.92	1.28	1.56	0.1742	18.2	513-1242-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-6R8-R
8.20	8.930	2.19	2.66	0.0592	10.7	35.72	1.10	1.33	0.2368	21.4	513-1243-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-8R2-R
10.0	10.30	2.08	2.47	0.0656	11.5	41.20	1.04	1.24	0.2623	23.0	513-1244-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-100-R
15.0	15.01	1.83	2.05	0.0844	13.9	60.04	0.916	1.03	0.339	27.8	513-1245-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-150-R
22.0	22.65	1.62	1.67	0.107	17.0	90.60	0.811	0.83	0.429	34.0	513-1246-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-220-R
33.0	34.41	1.31	1.35	0.166	21.0	137.6	0.653	0.68	0.665	42.0	513-1247-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-330-R
47.0	48.62	1.08	1.14	0.241	24.9	194.5	0.542	0.57	0.965	49.8	513-1248-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-470-R
68.0	68.91	0.89	0.96	0.358	29.7	275.6	0.444	0.48	1.43	59.4	513-1249-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-680-R
82.0	80.37	0.86	0.89	0.384	32.1	321.5	.0430	0.44	1.54	64.2	513-1250-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-820-R
100	101.4	0.73	0.79	0.527	36.0	405.6	0.367	0.39	2.11	72.0	513-1251-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-101-R
150	150.9	0.58	0.65	0.851	44.0	603.6	0.289	0.32	3.41	88.0	513-1252-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-151-R
220	223.3	0.52	0.53	1.05	53.5	893.2	0.260	0.27	4.20	107	513-1253-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-221-R
330	325.5	0.42	0.44	1.59	64.5	1302	0.211	0.22	6.36	129	513-1254-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-331-R
470	465.8	0.35	0.37	2.36	77.2	1863	0.173	0.18	9.44	154	513-1255-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-471-R
680	676.5	0.29	0.31	3.47	93.1	2706	0.143	0.15	13.88	186	513-1256-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-681-R
820	821.7	0.27	0.28	3.93	103	3287	0.134	0.14	15.72	206	513-1257-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-821-R
1000	995.0	0.26	0.25	4.34	113	3980	0.128	0.13	17.36	226	513-1258-1-ND	1.72	1.57	1.17	1,350	728.00/M	DRQ73-102-R
DRQ74 Series																	
0.33	0.294	6.20	18.4	0.0074	1.71	1.176	3.10	9.18	0.0295	3.42	513-1259-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-R33-R
1.00	0.952	5.33	10.2	0.0100	3.08	3.808	2.66	5.10	0.0400	6.16	513-1260-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-1R0-R
1.50	1.422	4.96	8.35	0.0115	3.76	5.688	2.48	4.17	0.0461	7.52	513-1261-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-1R5-R
2.20	1.986	4.66	7.06	0.0130	4.45	7.944	2.33	3.53	0.0521	8.9	513-1262-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-2R2-R
3.30	3.396	3.94	5.40	0.0183	5.81	13.58	1.97	2.70	0.0732	11.6	513-1263-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-3R3-R
4.70	5.182	3.34	4.37	0.0254	7.18	20.73	1.67	2.19	0.102	14.4	513-1264-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-4R7-R
6.80	7.344	2.60	3.67	0.0418	8.55	29.38	1.30	1.84	0.167	17.1	513-1265-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-6R8-R
8.20	8.566	2.53	3.40	0.0441	9.23	34.26	1.27	1.70	0.177	18.5	513-1266-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-8R2-R
10.0	9.882	2.41	3.17	0.0489	9.92	39.53	1.20	1.58	0.196	19.8	513-1267-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-100-R
15.0	16.09	2.11	2.48	0.0637	12.7	64.36	1.05	1.24	0.255	25.4	513-1268-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-150-R
22.0	21.73	1.75	2.13	0.0925	14.7	86.92	0.874	1.07	0.371	29.4	513-1148-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-220-R
33.0	33.01	1.41	1.73	0.143	18.1	132.0	0.702	0.87	0.574	36.2	513-1269-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-330-R
47.0	49.64	1.15	1.41	0.216	22.2	198.6	0.573	0.71	0.865	44.4	513-1270-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-470-R
68.0	69.67	1.03	1.19	0.265	26.3	278.7	0.517	0.60	1.06	52.6	513-1271-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-680-R
82.0	80.95	0.91	1.11	0.345	28.4	323.8	0.453	0.55	1.38	56.8	513-1272-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-820-R
100	101.6	0.86	0.99	0.383	31.8	406.4	0.430	0.49	1.53	63.6	513-1273-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-101-R
150	150.0	0.69	0.81	0.591	38.6	600.0	0.346	0.41	2.37	77.2	513-1274-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-151-R
220	227.0	0.56	0.66	0.907	47.5	908.0	0.279	0.33	3.63	95.0	513-1275-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-221-R
330	335.6	0.45	0.54	1.41	57.8	1342	0.224	0.27	5.66	116	513-1276-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-331-R
470	465.3	0.40	0.46	1.74	68.1	1861	0.202	0.23	6.97	136	513-1277-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-471-R
680	671.2	0.33	0.38	2.58	81.7	2685	0.166	0.19	10.3	163	513-1278-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-681-R
820	812.7	0.31	0.35	2.93	89.9	3251	0.156	0.17	11.7	180	513-1279-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-821-R
1000	1009	0.27	0.31	3.89	100	4036	0.135	0.16	15.6	200	513-1280-1-ND	1.76	1.60	1.19	1,100	743.00/M	DRQ74-102-R
DRQ125 Series																	
0.47	0.456	17.6	33.0	0.0018	3.17	1.824	8.80	16.5	0.0078	6.34	513-1281-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-R47-R
1.00	0.894	15.0	23.6	0.0024	4.43	3.576	7.51	11.8	0.096	8.86	513-1282-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-1R0-R
1.50	1.478	13.8	18.3	0.0029	5.70	5.912	6.89	9.15	0.0114	11.4	513-1283-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-1R5-R
2.20	2.208	10.9	15.0	0.0045	6.97	8.832	5.46	7.50	0.0182	13.9	513-1284-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-2R2-R
3.30	3.084	9.26	12.7	0.0063	8.23	12.34	4.63	6.35	0.0253	16.5	513-1285-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-3R3-R
4.70	5.274	7.18	9.71	0.0105	10.8	21.10	3.59	4.86	0.0420	21.6	513-1286-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-4R7-R
6.80	6.588	6.64	8.68	0.0123	12.0	26.35	3.32	4.34	0.0492	24.0	513-1287-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-6R8-R
8.20	8.048	5.54	7.86	0.0176	13.3	32.19	2.77	3.93	0.0705	26.6	513-1288-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-8R2-R
10.0	9.654	5.35	7.17	0.0189	14.6	38.62	2.67	3.59	0.0757	29.2	513-1289-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-100-R
15.0	15.35	4.27	5.69	0.0298	18.4	61.40	2.13	2.85	0.120	36.8	513-1290-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-150-R
22.0	22.36	3.70	4.71	0.0396	22.2	89.44	1.84	2.36	0.159	44.4	513-1291-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-220-R
33.0	33.74	3.28	3.84	0.0505	27.2	135.0	1.64	1.92	0.203	54.4	513-1292-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-330-R
47.0	47.47	2.71	3.24	0.0740	32.3	189.9	1.35	1.62	0.297	64.6	513-1293-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-470-R
68.0	67.91	2.22	2.70	0.101	38.6	271.6	1.11	1.35	0.440	77.2	513-1294-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-680-R
82.0	86.89	2.05	2.39	0.128	43.7	347.6	1.03	1.20	0.515	87.4	513-1295-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-820-R
100	102.7	1.78	2.20	0.170	47.5	410.8	0.892	1.10	0.682	95.0	513-1296-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-101-R
150	151.1	1.48	1.81	0.248	57.6	604.4	0.739	0.905	0.991	115.2	513-1297-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-151-R
220	216.8	1.19	1.51	0.384	69.0	867.2	0.594	0.755	1.54	138	513-1298-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-221-R
330	332.6	1.06	1.22	0.482	85.5	1330	0.530	0.610	1.93	171	513-1299-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-331-R
470	473.1	0.87	1.02	0.718	102	1892	0.434	0.510	2.87	204	513-1300-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-471-R
680	679.8	0.70	0.85	1.10	122	2719	0.350	0.425	4.42	244	513-1301-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-681-R
820	828.0	0.60	0.77	1.49	135	3312	0.301	0.385	5.96	270	513-1302-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-821-R
1000	1008	0.57	0.70	1.69	149	4032	0.283	0.350	6.76	298	513-1303-1-ND	1.87	1.70	1.27	600	473.40	DRQ125-102-R
DRQ127 Series																	
0.47	0.419	17.9	56.0	0.00195	3.50	1.676	8.94	28	0.0078	7.0	513-1304-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-R47-R
1.00	0.821	15.5	40.0	0.00261	4.90	3.284	7.74	20	0.0104	9.8	513-1305-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-1R0-R
1.50	1.357	13.5	31.1	0.00341	6.30	5.428	6.77	15.6	0.0137	12.6	513-1306-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-1R5-R
2.20	2.027	12.5	25.5	0.00373	7.70	8.108	6.23	12.7	0.0161	15.4	513-1307-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-2R2-R
3.30	2.831	10.4	21.5	0.00567	9.10	11.32	5.23	10.8	0.0229	18.2	513-1308-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-3R3-R
4.70	4.841	8.25	16.5	0.00917	11.9	19.36	4.13	8.24	0.0367	23.8	513-1147-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-4R7-R
6.80	7.387	7.34	13.3	0.0116	14.7	29.55	3.67	6.67	0.0465	29.4	513-1309-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-6R8-R
8.20	8.861	6.32	12.2	0.0157	16.1	35.44	3.16	6.09	0.0627	32.2	513-1310-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-8R2-R
10.0	10.47	6.04	11.2	0.0172	17.5	41.88	3.02	5.60	0.0686	35.0	513-1143-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-100-R
15.0	14.09	5.03	9.66	0.0247	20.3	56.36	2.51	4.83	0.099	40.6	513-1144-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-150-R
22.0	22.93	4.00	7.57	0.0391	25.9	91.72	2.00	3.78	0.157	51.8	513-1145-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-220-R
33.0	33.92	3.23	6.22	0.0600	31.5	135.7	1.61	3.11	0.241	63.0	513-1146-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-330-R
47.0	47.05	2.95	5.28	0.0719	37.1	188.2	1.47	2.64	0.288	74.2	513-1311-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-470-R
68.0	66.48	2.44	4.44	0.105	44.1	265.9	1.22	2.22	0.421	88.2	513-1312-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-680-R
82.0	79.75	2.09	4.06	0.143	48.3	319.0	1.04	2.03	0.573	96.6	513-1313-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-820-R
100	99.31	1.96	3.64	0.163	53.9	397.2	0.980	1.82	0.653	107.8	513-1314-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-101-R
150	144.9	1.59	3.01	0.247	65.1	579.6	0.796	1.51	0.989	130.2	513-1315-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-151-R
220	221.5	1.29	2.43	0.376	80.5	886.0	0.645	1.22	1.50	161	513-1316-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-221-R
330	323.6	1.04	2.01	0.574	97.3	1294	0.522	1.01	2.30	195	513-1317-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-331-R
470	467.1	0.85	1.68	0.861	117	1868	0.427	0.838	3.44	234	513-1318-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-471-R
680	676.7	0.76	1.39	1.08	141	2707	0.380	0.697	4.32	282	513-1319-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-681-R
820	818.1	0.65	1.27	1.47	155	3272	0.325	0.633	5.88	310	513-1320-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-821-R
1000	1005	0.61	1.14	1.66	172	4020	0.307	0.571	6.64	344	513-1321-1-ND	2.02	1.84	1.37	350	299.25	DRQ127-102-R

Note (1): Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. **Note (3):** Peak current for approximately 30% roll off at 20°C **Note (4):** DCR limits at 20°C **Note (5):** Applied Volt-Time product (V-µS) across the inductor at 100kHz necessary to generate a core loss equal to 10% of the total losses for a 40°C temperature rise.

‡ For Tape and Reel part number, change 1-ND to 2-ND Δ Part Marking: H

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

COILTRONICS®

Common Mode Inductors (SMD) – CMS Series

Digi-Reel® RoHS COMPLIANT

	Dimensions (mm)		
Series	A	B	C
CMS1	9.4	7.2	2.6
CMS2	8.9	11.4	6.0
CMS3	11.4	14.0	6.0

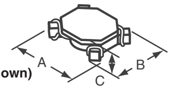

(CMS1 Shown)

Specifications: • **Operating Temperature:** -40°C ~ 160°C • **Isolation Voltage:** 300Vdc, Noise attenuation up to 44dB • **Frequency Range:** Up to 100MHz • **Solder Reflow Temperature:** 260°C for 10 seconds maximum

OCL Nominal(1) ±20% (µH)	IRMS Amperes (Max.)†	DCR @ 20°C (mΩ) (Typ.)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel§		Coiltronics Part No.
				1	10	100	Qty.	Pricing	
4.5	7.00	2.7	513-1114-1-ND	2.16	1.97	1.46	2,000	912.00/M	CMS1-1-R
28	5.70	5	513-1543-1-ND ***NEW!***	3.73	3.39	2.52	600	945.00	CMS3-1-R
41.5	2.60	19	513-1113-1-ND	2.16	1.97	1.46	2,000	912.00/M	CMS1-7-R
102	2.80	19	513-1115-1-ND	3.09	2.81	2.10	800	1045.32	CMS2-4-R
217	2.85	20	513-1523-1-ND	3.53	3.22	2.39	600	860.40	CMS3-6-R

Note (1): Definition: OCL = Open Circuit Inductance † 160°C maximum, inductance values are sustained up to 160°C
§ For Tape and Reel part number, change 1-ND to 2-ND.

Toroidal Power Inductors

RoHS COMPLIANT

Specifications: Operating Temperature: -40°C ~ 75°C, meets UL94V-0 flammability standards

Fig. 1

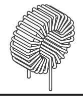

Fig. 2

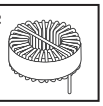

	Dimensions (mm)	
Series	øD	Thickness
CTX50-1	16.2	9.0
CTX50-2	21.6	13.6
CTX250-2	31.2	19.0

Fig.	Inductance (µH)	OCL(1) ± 20% (µH)	IDC(2) Amperes	ISAT(3) Amperes	DCR@20°C Max. (mΩ)	Digi-Key Part No.	Price Each			Coiltronics Part No.
							1	10	100	
1	50	50.29	2.6	2.7	71.5	513-1108-ND	1.51	1.37	1.02	CTX50-1-52-R
	50	50.00	4.9	4.9	32.6	513-1548-ND ***NEW!***	2.91	2.64	1.97	CTX50-2-52-R
2	50	50.29	2.6	2.7	71.5	513-1116-ND	2.60	2.37	1.76	CTX50-1-52LP-R
	50	50.00	4.9	4.9	32.6	513-1547-ND ***NEW!***	6.39	5.81	4.32	CTX50-2-52LP-R
	250	251.1	4.2	4.2	83.3	513-1117-ND	4.39	3.99	2.97	CTX250-2-52LP-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.250 Vrms, 0.0 Adc. **Note (2):** DC Current for an approximate ΔT of 30°C at 75°C ambient with no core loss. **Note (3):** Peak current for an approximate 30% roll-off in open circuit inductance.

High Current Pressed Power Inductors (SMD)

– HCP0703 Series

RoHS COMPLIANT

Digi-Reel®

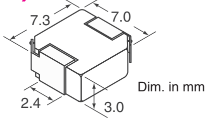

• **Core Material:** Pressed powdered iron • **Frequency Range:** Up to 1MHz • **Operating Temperature Range:** -55°C ~ 125°C • **Solder Reflow Temperature:** 260°C for 10 seconds max.

Inductance (µH)	OCL(1) ±20% (µH)	IRMS(2) Amps	ISAT(3) Amps	DCR @ 20°C (Max) (mΩ)	Digi-Key Part No.	Cut Tape Price Each			T&R Pricing§ 1,500	Coiltronics Part No.
						1	10	100		
0.15	0.15	26	52	2.5	513-1366-1-ND	2.09	1.90	1.42	881.00/M	HCP0703-R15-R
0.22	0.22	23	40	2.8	513-1367-1-ND	2.09	1.90	1.42	881.00/M	HCP0703-R22-R
0.47	0.47	17	26	4.2	513-1368-1-ND	2.09	1.90	1.42	881.00/M	HCP0703-R47-R
0.68	0.68	15	25	5.5	513-1369-1-ND	2.09	1.90	1.42	881.00/M	HCP0703-R68-R
0.82	0.82	13	24	8.0	513-1370-1-ND	2.09	1.90	1.42	881.00/M	HCP0703-R82-R
1.0	1.0	11	22	10	513-1359-1-ND	1.61	1.47	1.09	680.00/M	HCP0703-1R0-R
1.5	1.5	9	18	15	513-1360-1-ND	2.09	1.90	1.42	881.00/M	HCP0703-1R5-R
2.2	2.2	8	14	20	513-1361-1-ND	2.09	1.90	1.42	881.00/M	HCP0703-2R2-R
3.3	3.3	6	13.5	30	513-1362-1-ND	2.09	1.90	1.42	881.00/M	HCP0703-3R3-R
4.7	4.7	5.5	10	40	513-1363-1-ND	2.09	1.90	1.42	881.00/M	HCP0703-4R7-R
6.8	6.8	4.5	8	60	513-1364-1-ND	2.09	1.90	1.42	881.00/M	HCP0703-6R8-R
8.2	8.2	4	7.5	68	513-1365-1-ND	2.09	1.90	1.42	881.00/M	HCP0703-8R2-R
10.0	10.0	3	7.0	105	513-1358-1-ND	2.09	1.90	1.42	881.00/M	HCP0703-100-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.25V, 0.0Adc. **Note (2):** DC current for an approximate ΔT of 40°C without core loss. **Note (3):** Peak for approximately 20% rolloff (at 25°C) § For Tape and Reel part number, change 1-ND to 2-ND.

Shielded High Power Inductors Low Profile (SMD) – DR10 Series

- **Core Material:** Ferrite
- **Frequency Range:** Up to 1MHz
- **Operating Temperature Range:** -40°C ~ 125°C
- **Solder Reflow Temperature:** 260°C for 10 seconds maximum

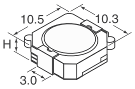

RoHS COMPLIANT

Digi-Reel®

Inductance (µH)	OCL(1) ±30% (µH)	IRMS(2) Amps	ISAT(3) Amps	DCR @20°C (mΩ) (max.)	Dimension H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Coiltronics Part No.
							1	10	100		Qty.	Pricing	
							DR1030						
1.1	1.1	7.0	9.50	7.9	3.0	513-1327-1-ND	1.92	1.75	1.30	513-1327-2-ND	1,000	810.00	DR1030-1R1-R
1.8	1.9	5.9	7.41	11.0	3.0	513-1328-1-ND	1.92	1.75	1.30	513-1328-2-ND	1,000	810.00	DR1030-1R8-R
2.8	2.8	5.1	6.08	14.5	3.0	513-1330-1-ND	1.92	1.75	1.30	513-1330-2-ND	1,000	810.00	DR1030-2R8-R
3.9	4.0	4.3	5.13	20.0	3.0	513-1332-1-ND	1.92	1.75	1.30	513-1332-2-ND	1,000	810.00	DR1030-3R9-R
5.2	5.2	3.7	4.75	27.5	3.0	513-1334-1-ND	1.92	1.75	1.30	513-1334-2-ND	1,000	810.00	DR1030-5R2-R
6.8	6.8	3.5	3.90	30.0	3.0	513-1336-1-ND	1.92	1.75	1.30	513-1336-2-ND	1,000	810.00	DR1030-6R8-R
8.2	8.4	3.3	3.54	34.1	3.0	513-1338-1-ND	1.92	1.75	1.30	513-1338-2-ND	1,000	810.00	DR1030-8R2-R
10	10.4	2.8	3.18	48.0	3.0	513-1322-1-ND	1.92	1.75	1.30	513-1322-2-ND	1,000	810.00	DR1030-100-R
15	14.8	2.3	2.66	68.8	3.0	513-1325-1-ND	1.92	1.75	1.30	513-1325-2-ND	1,000	810.00	DR1030-150-R
22	22.8	1.8	2.19	114.6	3.0	513-1329-1-ND	1.92	1.75	1.30	513-1329-2-ND	1,000	810.00	DR1030-220-R
33	32.4	1.6	1.81	136.3	3.0	513-1331-1-ND	1.92	1.75	1.30	513-1331-2-ND	1,000	810.00	DR1030-330-R
47	47.9	1.3	1.52	200.0	3.0	513-1333-1-ND	1.92	1.75	1.30	513-1333-2-ND	1,000	810.00	DR1030-470-R
68	66.6	1.1	1.24	303.7	3.0	513-1335-1-ND	1.92	1.75	1.30	513-1335-2-ND	1,000	810.00	DR1030-680-R
82	82.4	1.0	1.14	382.3	3.0	513-1337-1-ND	1.92	1.75	1.30	513-1337-2-ND	1,000	810.00	DR1030-820-R
100	100	0.9	1.05	450.0	3.0	513-1323-1-ND	1.92	1.75	1.30	513-1323-2-ND	1,000	810.00	DR1030-101-R
120	119.3	0.8	0.95	602.0	3.0	513-1324-1-ND	1.92	1.75	1.30	513-1324-2-ND	1,000	810.00	DR1030-121-R
150	155.3	0.7	0.86	700	3.0	513-1326-1-ND	1.92	1.75	1.30	513-1326-2-ND	1,000	810.00	DR1030-151-R
							DR1040						
1.5	1.4	6.5	10.00	8.1	4.0	513-1393-1-ND	1.92	1.75	1.30	513-1393-2-ND	850	688.50	DR1040-1R5-R
2.5	2.4	6.10	7.80	9.0	4.0	513-1394-1-ND	1.92	1.75	1.30	513-1394-2-ND	850	688.50	DR1040-2R5-R
3.8	3.6	5.50	6.40	13.0	4.0	513-1395-1-ND	1.92	1.75	1.30	513-1395-2-ND	850	688.50	DR1040-3R8-R
5.2	5.2	5.40	5.50	17.0	4.0	513-1396-1-ND	1.92	1.75	1.30	513-1396-2-ND	850	688.50	DR1040-5R2-R
7.0	6.8	4.50	4.80	20.0	4.0	513-1397-1-ND	1.92	1.75	1.30	513-1397-2-ND	850	688.50	DR1040-7R0-R
8.2	8.1	3.98	4.60	29.0	4.0	513-1398-1-ND	1.92	1.75	1.30	513-1398-2-ND	850	688.50	DR1040-8R2-R
10	9.6	3.80	4.40	35.0	4.0	513-1399-1-ND	1.92	1.75	1.30	513-1399-2-ND	850	688.50	DR1040-100-R
15	14.9	3.10	3.60	50.0	4.0	513-1400-1-ND	1.92	1.75	1.30	513-1400-2-ND	850	688.50	DR1040-150-R
22	21.1	2.50	2.90	73.0	4.0	513-1401-1-ND	1.92	1.75	1.30	513-1401-2-ND	850	688.50	DR1040-220-R
33	32.6	2.20	2.45	93.0	4.0	513-1402-1-ND	1.92	1.75	1.30	513-1402-2-ND	850	688.50	DR1040-330-R
47	45.8	1.90	2.10	128	4.0	513-1403-1-ND	1.92	1.75	1.30	513-1403-2-ND	850	688.50	DR1040-470-R
68	65.3	1.42	1.65	183	4.0	513-1404-1-ND	1.92	1.75	1.30	513-1404-2-ND	850	688.50	DR1040-680-R
82	86.8	1.29	1.47	260	4.0	513-1405-1-ND	1.92	1.75	1.30	513-1405-2-ND	850	688.50	DR1040-820-R
100	101.4	1.25	1.35	304	4.0	513-1406-1-ND	1.92	1.75	1.30	513-1406-2-ND	850	688.50	DR1040-101-R
150	148.3	0.85	1.15	430	4.0	513-1407-1-ND	1.92	1.75	1.30	513-1407-2-ND	850	688.50	DR1040-151-R
220	216.2	0.70	0.92	640	4.0	513-1408-1-ND	1.92	1.75	1.30	513-1408-2-ND	850	688.50	DR1040-221-R
330	323.4	0.52	0.70	1090	4.0	513-1409-1-ND	1.92	1.75	1.30	513-1409-2-ND	850	688.50	DR1040-331-R
							DR1050						
0.8	0.70	9.70	13.50	4.0	5.0	513-1410-1-ND	1.92	1.75	1.30	513-1410-2-ND	500	405.00	DR1050-R80-R
1.5	1.37	8.60	10.50	5.0	5.0	513-1411-1-ND	1.92	1.75	1.30	513-1411-2-ND	500	405.00	DR1050-1R5-R
2.2	2.27	7.52	9.25	6.8	5.0	513-1412-1-ND	1.92	1.75	1.30	513-1412-2-ND	500	405.00	DR1050-2R2-R
4.7	4.43	6.13	6.70	11.9	5.0	513-1413-1-ND	1.92	1.75	1.30	513-1413-2-ND	500	405.00	DR1050-4R7-R
8.2	8.09	5.24	5.00	19.0	5.0	513-1414-1-ND	1.92	1.75	1.30	513-1414-2-ND	500	405.00	DR1050-8R2-R
10	10.1	4.80	4.58	22.5	5.0	513-1415-1-ND	1.92	1.75	1.30	513-1415-2-ND	500	405.00	DR1050-100-R
15	14.8	3.80	3.70	32.5	5.0	513-1416-1-ND	1.92	1.75	1.30	513-1416-2-ND	500	405.00	DR1050-150-R
22	23.5	3.12	3.00	48.4	5.0	513-1417-1-ND	1.92	1.75	1.30	513-1417-2-ND	500	405.00	DR1050-220-R
33	34.3	2.56	2.50	71.9	5.0	513-1418-1-ND	1.92	1.75	1.30	513-1418-2-ND	500	405.00	DR1050-330-R
47	47.1	2.06	2.10	111	5.0	513-1419-1-ND	1.92	1.75	1.30	513-1419-2-ND	500	405.00	DR1050-470-R
56	56.7	1.96	1.94	123	5.0	513-1420-1-ND	1.92	1.75	1.30	513-1420-2-ND	500	405.00	DR1050-560-R
68	67.2	1.84	1.70	139	5.0	513-1421-1-ND	1.92	1.75	1.30	513-1421-2-ND	500	405.00	DR1050-680-R
100	97.5	1.52	1.45	205	5.0	513-1422-1-ND	1.92	1.75	1.30	513-1422-2-ND	500	405.00	DR1050-101-R
150	149.2	1.26	1.15	298	5.0	513-1423-1-ND	1.92	1.75	1.30	513-1423-2-ND	500	405.00	DR1050-151-R
220	221.8	1.00	0.98	472	5.0	513-1424-1-ND	1.92	1.75	1.30	513-1424-2-ND	500	405.00	DR1050-221-R
330	320.6	0.83	0.80	693	5.0	513-1425-1-ND	1.92	1.75	1.30	513-1425-2-ND	500	405.00	DR1050-331-R
390	396.5	0.76	0.72	810	5.0	513-1426-1-ND	1.92	1.75	1.30	513-1426-2-ND	500	405.00	DR1050-391-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.1V, 0.0Adc **Note (2):** DC current for an approximate ΔT of 30°C without core loss. **Note (3):** Peak for approximately 35% rolloff maximum (at 25°C)

COILTRONICS®

Low Profile Power Inductors Drum Core (SMD)

RoHS COMPLIANT

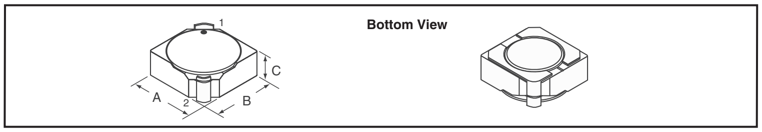

Specifications:
- **Frequency Range:** up to 1MHz • **Operating Temperature Range:** -40°C ~ 125°C
- **Solder Reflow Temperature:** 260°C max. for 10 seconds maximum

Inductance (µH)	OCL(1) ±30% (µH)	Irms(2) Amps	Isat(3) Amps	DCR (mΩ) @20°C (Typical)	Dimension (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
SD6020 Series															
4.1	3.9	2.22	1.95	47.5	6.0	6.0	2.0	513-1463-1-ND	.98	.89	.66	513-1463-2-ND	2,600	413.00/M	SD6020-4R1-R
6.2	6.5	1.63	1.40	80.0	6.0	6.0	2.0	513-1464-1-ND	.98	.89	.66	513-1464-2-ND	2,600	413.00/M	SD6020-6R2-R
10	9.7	1.39	1.20	103.3	6.0	6.0	2.0	513-1465-1-ND	.98	.89	.66	513-1465-2-ND	2,600	413.00/M	SD6020-100-R
12	11	1.31	1.10	115.0	6.0	6.0	2.0	513-1466-1-ND	.98	.89	.66	513-1466-2-ND	2,600	413.00/M	SD6020-120-R
22	20	0.94	0.80	241.7	6.0	6.0	2.0	513-1467-1-ND	.98	.89	.66	513-1467-2-ND	2,600	413.00/M	SD6020-220-R
47	45	0.61	0.54	495.8	6.0	6.0	2.0	513-1468-1-ND	.98	.89	.66	513-1468-2-ND	2,600	413.00/M	SD6020-470-R
68	68	0.50	0.43	700.0	6.0	6.0	2.0	513-1469-1-ND	.98	.89	.66	513-1469-2-ND	2,600	413.00/M	SD6020-680-R
100	94	0.42	0.36	1000	6.0	6.0	2.0	513-1470-1-ND	.98	.89	.66	513-1470-2-ND	2,600	413.00/M	SD6020-101-R
SD6030 Series															
2.7	2.7	4.08	2.60	13	6.0	6.0	3.0	513-1471-1-ND	.98	.89	.66	513-1471-2-ND	2,000	413.00/M	SD6030-2R7-R
3.3	3.3	3.54	2.40	18	6.0	6.0	3.0	513-1472-1-ND	.98	.89	.66	513-1472-2-ND	2,000	413.00/M	SD6030-3R3-R
4.2	4.1	3.11	2.20	23	6.0	6.0	3.0	513-1473-1-ND	.98	.89	.66	513-1473-2-ND	2,000	413.00/M	SD6030-4R2-R
7.8	7.8	2.38	1.60	39	6.0	6.0	3.0	513-1474-1-ND	.98	.89	.66	513-1474-2-ND	2,000	413.00/M	SD6030-7R8-R
10	9.3	2.15	1.30	48	6.0	6.0	3.0	513-1475-1-ND	.98	.89	.66	513-1475-2-ND	2,000	413.00/M	SD6030-100-R
12	11.3	1.99	1.20	56	6.0	6.0	3.0	513-1476-1-ND	.98	.89	.66	513-1476-2-ND	2,000	413.00/M	SD6030-120-R
22	20.4	1.57	0.90	90	6.0	6.0	3.0	513-1477-1-ND	.98	.89	.66	513-1477-2-ND	2,000	413.00/M	SD6030-220-R
44	44.0	1.10	0.62	185	6.0	6.0	3.0	513-1478-1-ND	.98	.89	.66	513-1478-2-ND	2,000	413.00/M	SD6030-440-R
68	65.6	0.92	0.52	263	6.0	6.0	3.0	513-1479-1-ND	.98	.89	.66	513-1479-2-ND	2,000	413.00/M	SD6030-680-R
100	94.4	0.76	0.42	385	6.0	6.0	3.0	513-1480-1-ND	.98	.89	.66	513-1480-2-ND	2,000	413.00/M	SD6030-101-R
SD7030 Series															
3.3	3.3	3.7	3.00	20	7.0	7.0	3.0	513-1481-1-ND	1.17	1.07	.80	513-1481-2-ND	1,500	495.00/M	SD7030-3R3-R
5.0	4.9	3.2	2.40	26	7.0	7.0	3.0	513-1482-1-ND	1.17	1.07	.80	513-1482-2-ND	1,500	495.00/M	SD7030-5R0-R
7.3	7.0	2.3	2.10	45	7.0	7.0	3.0	513-1483-1-ND	1.17	1.07	.80	513-1483-2-ND	1,500	495.00/M	SD7030-7R3-R
8.0	7.8	2.2	1.85	48	7.0	7.0	3.0	513-1484-1-ND	1.17	1.07	.80	513-1484-2-ND	1,500	495.00/M	SD7030-8R0-R
10	10.0	2.1	1.70	54	7.0	7.0	3.0	513-1485-1-ND	1.17	1.07	.80	513-1485-2-ND	1,500	495.00/M	SD7030-100-R
22	21.0	1.4	1.20	107	7.0	7.0	3.0	513-1486-1-ND	1.17	1.07	.80	513-1486-2-ND	1,500	495.00/M	SD7030-220-R
44	43.4	1.1	0.80	198	7.0	7.0	3.0	513-1487-1-ND	1.17	1.07	.80	513-1487-2-ND	1,500	495.00/M	SD7030-440-R
68	66.6	0.85	0.65	253	7.0	7.0	3.0	513-1488-1-ND	1.17	1.07	.80	513-1488-2-ND	1,500	495.00/M	SD7030-680-R
100	95.5	0.70	0.54	446	7.0	7.0	3.0	513-1489-1-ND	1.17	1.07	.80	513-1489-2-ND	1,500	495.00/M	SD7030-101-R

Note (1): Open circuit Inductance Test Parameters: 100kHz, 0.1V, 0.0Adc. **Note (2):** Irms: DC current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C under worst case operating conditions verified in the end application. **Note (3):** Isat Amperes peak for 35% rolloff (@25°C).

Low Profile Power Inductors Shielded Drum Core (SMD)

RoHS COMPLIANT

Specifications: • **Frequency Range:** up to 1MHz • **Operating Temperature Range:** -40°C ~ 125°C • **Solder Reflow Temperature:** 260°C max. for 10 seconds maximum

Fig. 1

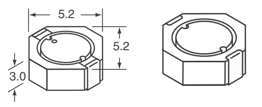

Bottom View

Fig. 2

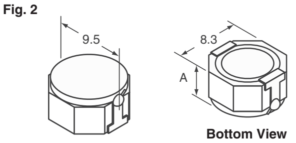

Bottom View

Fig. 3

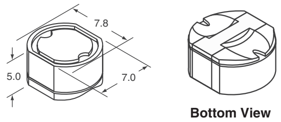

Bottom View

Inductance (µH)	OCL(1) (µH)	Irms(2) Amps	Isat(3) Amps	DCR (mΩ) @20°C (Typical)	Dimension A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
Fig. 1 — SD53 Series													
2.00	2.00	2.64	3.30	17	—	513-1453-1-ND	.99	.90	.67	513-1453-2-ND	2,600	419.00/M	SD53-2R0-R
3.30	3.30	2.26	2.60	29	—	513-1454-1-ND	.99	.90	.67	513-1454-2-ND	2,600	419.00/M	SD53-3R3-R
4.70	4.70	2.01	2.10	39	—	513-1455-1-ND	.99	.90	.67	513-1455-2-ND	2,600	419.00/M	SD53-4R7-R
6.80	6.80	1.65	1.85	59	—	513-1456-1-ND	.99	.90	.67	513-1456-2-ND	2,600	419.00/M	SD53-6R8-R
10.0	10.0	1.41	1.40	77	—	513-1457-1-ND	.99	.90	.67	513-1457-2-ND	2,600	419.00/M	SD53-100-R
15.0	15.0	1.10	1.10	122	—	513-1458-1-ND	.99	.90	.67	513-1458-2-ND	2,600	419.00/M	SD53-150-R
22.0	22.0	0.81	0.94	179	—	513-1459-1-ND	.99	.90	.67	513-1459-2-ND	2,600	419.00/M	SD53-220-R
47.0	47.0	0.64	0.64	303	—	513-1460-1-ND	.99	.90	.67	513-1460-2-ND	2,600	419.00/M	SD53-470-R
68.0	68.0	0.52	0.58	452	—	513-1461-1-ND	.99	.90	.67	513-1461-2-ND	2,600	419.00/M	SD53-680-R
100	100	0.44	0.45	689	—	513-1462-1-ND	.99	.90	.67	513-1462-2-ND	2,600	419.00/M	SD53-101-R
Fig. 2 — SD8328 Series													
2.5	2.7	6.6	4.5	12	3.0	513-1490-1-ND	1.07	.97	.72	513-1490-2-ND	1,280	450.00/M	SD8328-2R5-R
3.3	3.4	6.1	4.0	14	3.0	513-1491-1-ND	1.07	.97	.72	513-1491-2-ND	1,280	450.00/M	SD8328-3R3-R
4.7	5.0	4.5	3.6	19	3.0	513-1492-1-ND	1.07	.97	.72	513-1492-2-ND	1,280	450.00/M	SD8328-4R7-R
7.3	7.6	3.4	2.9	30	3.0	513-1493-1-ND	1.07	.97	.72	513-1493-2-ND	1,280	450.00/M	SD8328-7R3-R
10	9.1	3.3	2.6	36	3.0	513-1494-1-ND	1.07	.97	.72	513-1494-2-ND	1,280	450.00/M	SD8328-100-R
15	14.5	2.35	2.0	53	3.0	513-1495-1-ND	1.07	.97	.72	513-1495-2-ND	1,280	450.00/M	SD8328-150-R
22	21.1	1.85	1.7	76	3.0	513-1496-1-ND	1.07	.97	.72	513-1496-2-ND	1,280	450.00/M	SD8328-220-R
33	31.9	1.45	1.4	120	3.0	513-1497-1-ND	1.07	.97	.72	513-1497-2-ND	1,280	450.00/M	SD8328-330-R
47	44.9	1.30	1.2	150	3.0	513-1498-1-ND	1.07	.97	.72	513-1498-2-ND	1,280	450.00/M	SD8328-470-R
68	64.2	0.98	1.0	220	3.0	513-1499-1-ND	1.07	.97	.72	513-1499-2-ND	1,280	450.00/M	SD8328-680-R
100	97.0	0.80	0.8	330	3.0	513-1500-1-ND	1.07	.97	.72	513-1500-2-ND	1,280	450.00/M	SD8328-101-R
Fig. 2 — SD8350 Series													
4.7	4.2	4.10	5.5	18.5	4.5	513-1501-1-ND	1.17	1.07	.80	513-1501-2-ND	750	371.25	SD8350-4R7-R
6.8	6.8	3.90	4.4	20.8	4.5	513-1502-1-ND	1.17	1.07	.80	513-1502-2-ND	750	371.25	SD8350-6R8-R
10	9.9	3.20	4.0	31.4	4.5	513-1503-1-ND	1.17	1.07	.80	513-1503-2-ND	750	371.25	SD8350-100-R
22	20.4	1.80	2.6	63.5	4.5	513-1504-1-ND	1.17	1.07	.80	513-1504-2-ND	750	371.25	SD8350-220-R
47	44.9	1.30	1.8	130	4.5	513-1505-1-ND	1.17	1.07	.80	513-1505-2-ND	750	371.25	SD8350-470-R
68	65.1	1.00	1.5	200.8	4.5	513-1506-1-ND	1.17	1.07	.80	513-1506-2-ND	750	371.25	SD8350-680-R
100	99.7	0.80	1.3	308.0	4.5	513-1507-1-ND	1.17	1.07	.80	513-1507-2-ND	750	371.25	SD8350-101-R
Fig. 3 — LDS0705 Series													
4.7	5.08	3.32	3.53	21	—	513-1445-1-ND	1.24	1.13	.84	513-1445-2-ND	1,000	525.00	LDS0705-4R7M-R
10.0	9.30	2.54	2.61	36	—	513-1446-1-ND	1.24	1.13	.84	513-1446-2-ND	1,000	525.00	LDS0705-100M-R
15.0	14.78	2.04	2.07	56	—	513-1447-1-ND	1.24	1.13	.84	513-1447-2-ND	1,000	525.00	LDS0705-150M-R
22.0	21.53	1.66	1.71	84	—	513-1448-1-ND	1.24	1.13	.84	513-1448-2-ND	1,000	525.00	LDS0705-220M-R
47.0	45.71	1.21	1.18	158	—	513-1449-1-ND	1.24	1.13	.84	513-1449-2-ND	1,000	525.00	LDS0705-470M-R
100.0	98.9	0.808	0.800	357	—	513-1450-1-ND	1.24	1.13	.84	513-1450-2-ND	1,000	525.00	LDS0705-101M-R
150.0	152.0	0.649	0.645	554	—	513-1451-1-ND	1.24	1.13	.84	513-1451-2-ND	1,000	525.00	LDS0705-151M-R
220.0	216.5	0.584	0.541	680	—	513-1452-1-ND	1.24	1.13	.84	513-1452-2-ND	1,000	525.00	LDS0705-221M-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.1V, 0.0Adc. **Note (2)**: Irms: DC current for an approximate ΔT of 40°C (LDS0705 30°C) without core loss. It is recommended that the temperature of the part not exceed 125°C under worst case operating conditions verified in the end application. **Note (3)**: Isat Amperes peak for approximately 30% (SD53), 35% (SD8328, SD8350), 15% (LDS0705) rolloff @25°C.

COILTRONICS®

Shielded Low Profile High Current Power Inductors (SMD)

Specifications: • **Solder Reflow Temperature:** 260°C for 10 seconds maximum

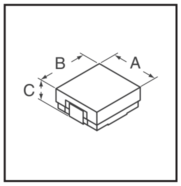

Series	Dimensions (mm) A	B	C
FP3	6.7	7.3	3.0
FP1308	12.95	13.7	8.0
HC7	13.0	13.8	5.5
HC8	10.4	10.4	4.0
HC8LP	10.4	10.4	3.5
HC9 (0.20 ~ 1.5µH)	13.1	13.4	7.5
(2.2 ~ 47.0µH)	13.1	13.8	7.5
HCP1104	10.0	11.5	4.0
HCP1305	12.9	13.8	5.0

Series	Frequency Range	Operating Ambient Temperature Range
FP3	Up to 2MHz	-40°C ~ 155°C
FP1308	Up to 2MHz	-40°C ~ 125°C
HC7	1kHz ~ 500kHz	-40°C ~ 155°C
HC8	1kHz ~ 500kHz	-40°C ~ 155°C
HC8LP	1kHz ~ 500kHz	-40°C ~ 155°C
HC9	1kHz ~ 500kHz	-40°C ~ 155°C
HCP1104	Up to 1MHz	-55°C ~ 125°C
HCP1305	Up to 1MHz	-55°C ~ 125°C

Inductance (µH)	OCL(1) ± 20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Amperes Peak	DCR (mΩ) (Max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
FP3 Series — FLAT PAC™												
.470	.440	10.9	11.6	3.67	513-1553-1-ND ***NEW!***	2.12	1.93	1.44	513-1553-2-ND ***NEW!***	1,700	897.00/M	FP3-R47-R
.680	.720	9.72	9.0	4.63	513-1554-1-ND ***NEW!***	2.12	1.93	1.44	513-1554-2-ND ***NEW!***	1,700	897.00/M	FP3-R68-R
1.0	1.10	6.26	9.5	11.2	513-1149-1-ND	2.12	1.93	1.44	513-1149-2-ND	1,700	897.00/M	FP3-1R0-R
2.0	2.00	5.40	6.9	15.0	513-1151-1-ND	2.12	1.93	1.44	513-1151-2-ND	1,700	897.00/M	FP3-2R0-R
3.3	3.20	3.63	5.5	30.0	513-1152-1-ND	1.79	1.63	1.22	513-1152-2-ND	1,700	758.00/M	FP3-3R3-R
4.7	4.70	3.23	4.2	40.0	513-1150-1-ND	1.79	1.63	1.22	513-1150-2-ND	1,700	758.00/M	FP3-4R7-R
8.2	8.50	2.91	2.6	74.0	513-1552-1-ND ***NEW!***	1.79	1.63	1.22	513-1552-2-ND ***NEW!***	1,700	758.00/M	FP3-8R2-R
15.0	14.9	2.22	2.0	127	513-1551-1-ND ***NEW!***	1.79	1.63	1.22	513-1551-2-ND ***NEW!***	1,700	758.00/M	FP3-150-R
FP1308 Series — FLAT PAC™												
.110	.110	68	120	0.24	513-1440-1-ND	2.20	2.00	1.49	513-1440-2-ND	400	372.00	FP1308-R11-R
.210	.210	68	72	0.24	513-1441-1-ND	2.20	2.00	1.49	513-1441-2-ND	400	372.00	FP1308-R21-R
.260	.260	68	60	0.24	513-1442-1-ND	2.20	2.00	1.49	513-1442-2-ND	400	372.00	FP1308-R26-R
.320	.320	68	45	0.24	513-1443-1-ND	2.20	2.00	1.49	513-1443-2-ND	400	372.00	FP1308-R32-R
.440	.440	68	32	0.24	513-1444-1-ND	2.20	2.00	1.49	513-1444-2-ND	400	372.00	FP1308-R44-R
HC7 Series — High Current 7												
1.0	1.05	20.30	19.6	2.1	513-1164-1-ND	3.32	3.02	2.25	513-1164-2-ND	610	855.83	HC7-1R0-R
2.2	2.58	13.00	12.5	5.2	513-1166-1-ND	3.32	3.02	2.25	513-1166-2-ND	610	855.83	HC7-2R2-R
4.7	4.81	9.80	9.2	9.0	513-1165-1-ND	3.32	3.02	2.25	513-1165-2-ND	610	855.83	HC7-4R7-R
HC8 Series — High Current 8												
0.39	0.390	28.3	26	1.55	513-1110-1-ND	3.32	3.02	2.25	513-1110-2-ND	800	1122.12	HC8-R39-R
1.2	1.32	16.0	14.4	4.70	513-1109-1-ND	3.62	3.29	2.45	513-1109-2-ND	800	1224.00	HC8-1R2-R
HC8LP Series — High Current 8LP (Low Profile)												
0.39	0.430	20.2	19	2.8	513-1344-1-ND	3.32	3.02	2.25	513-1344-2-ND	800	1122.40	HC8LP-R39-R
0.75	0.830	15.6	13.5	4.7	513-1345-1-ND	3.22	2.93	2.18	513-1345-2-ND	800	1224.00	HC8LP-R75-R
1.9	1.92	10.1	8.7	11.5	513-1340-1-ND	3.32	3.02	2.25	513-1340-2-ND	800	1122.40	HC8LP-1R9-R
4.5	4.57	6.5	5.6	27.6	513-1342-1-ND	3.32	3.02	2.25	513-1342-2-ND	800	1122.40	HC8LP-4R5-R
6.9	6.98	5.2	4.6	42.8	513-1343-1-ND	3.32	3.02	2.25	513-1343-2-ND	800	1122.40	HC8LP-6R9-R
10.0	9.90	4.3	6.8	62.9	513-1339-1-ND	3.32	3.02	2.25	513-1339-2-ND	800	1122.40	HC8LP-100-R
33.0	32.10	2.3	2.1	224	513-1341-1-ND	3.32	3.02	2.25	513-1341-2-ND	800	1122.40	HC8LP-330-R
HC9 Series — High Current 9												
0.20	0.218	46.7	65	0.50	513-1356-1-ND	2.23	2.03	1.51	513-1356-2-ND	450	423.00	HC9-R20-R
0.47	0.544	33.7	40	0.88	513-1357-1-ND	2.23	2.03	1.51	513-1357-2-ND	450	423.00	HC9-R47-R
1.0	1.04	23.7	28	1.87	513-1347-1-ND	2.23	2.03	1.51	513-1347-2-ND	450	423.00	HC9-1R0-R
1.5	1.70	21.0	22	2.27	513-1348-1-ND	2.23	2.03	1.51	513-1348-2-ND	450	423.00	HC9-1R5-R
2.2	2.53	17.2	18	3.37	513-1350-1-ND	2.23	2.03	1.51	513-1350-2-ND	450	423.00	HC9-2R2-R
3.3	3.52	14.3	15	4.87	513-1352-1-ND	2.23	2.03	1.51	513-1352-2-ND	450	423.00	HC9-3R3-R
4.3	4.67	13.0	13.2	5.90	513-1354-1-ND	2.23	2.03	1.51	513-1354-2-ND	450	423.00	HC9-4R3-R
6.8	7.45	10.3	11.4	9.40	513-1355-1-ND	2.23	2.03	1.51	513-1355-2-ND	450	423.00	HC9-6R8-R
10.0	10.9	8.50	8.6	14.0	513-1346-1-ND	2.23	2.03	1.51	513-1346-2-ND	450	423.00	HC9-100-R
22.0	22.4	6.30	6.0	25.7	513-1349-1-ND	2.23	2.03	1.51	513-1349-2-ND	450	423.00	HC9-220-R
33.0	34.5	4.42	4.8	48.8	513-1351-1-ND	2.23	2.03	1.51	513-1351-2-ND	450	423.00	HC9-330-R
47.0	49.2	3.65	3.9	72.3	513-1353-1-ND	2.23	2.03	1.51	513-1353-2-ND	450	423.00	HC9-470-R
HCP1104 Series — High Current, Pressed Iron Core (1104 Pkg)												
0.20	0.20	32	42	0.9	513-1371-1-ND	3.15	2.86	2.13	513-1371-2-ND	950	1263.50	HCP1104-R20-R
0.36	0.36	30	40	1.2	513-1372-1-ND	3.15	2.86	2.13	513-1372-2-ND	950	1263.50	HCP1104-R36-R
0.45	0.45	30	35	1.4	513-1373-1-ND	3.15	2.86	2.13	513-1373-2-ND	950	1263.50	HCP1104-R45-R
0.56	0.56	25	32	1.8	513-1374-1-ND	3.15	2.86	2.13	513-1374-2-ND	950	1263.50	HCP1104-R56-R
0.90	0.90	22	25	2.5	513-1375-1-ND	3.15	2.86	2.13	513-1375-2-ND	950	1263.50	HCP1104-R90-R
HCP1305 Series — High Current, Pressed Iron Core (1305 Pkg)												
0.47	0.47	38	65	1.3	513-1379-1-ND	2.38	2.16	1.60	513-1379-2-ND	400	402.00	HCP1305-R47-R
0.56	0.56	36	55	1.5	513-1380-1-ND	2.38	2.16	1.60	513-1380-2-ND	400	402.00	HCP1305-R56-R
0.68	0.68	34	53	1.7	513-1381-1-ND	2.38	2.16	1.60	513-1381-2-ND	400	402.00	HCP1305-R68-R
0.82	0.82	31	52	2.3	513-1382-1-ND	2.38	2.16	1.60	513-1382-2-ND	400	402.00	HCP1305-R82-R
1.0	1.0	29	50	2.5	513-1376-1-ND	2.38	2.16	1.60	513-1376-2-ND	400	402.00	HCP1305-1R0-R
1.5	1.5	23	48	4.1	513-1377-1-ND	2.38	2.16	1.60	513-1377-2-ND	400	402.00	HCP1305-1R5-R
2.2	2.2	20	32	5.5	513-1378-1-ND	2.38	2.16	1.60	513-1378-2-ND	400	402.00	HCP1305-2R2-R

Note (1): OCL; Open Circuit Inductance at no load, see data sheet for test parameters **Note (2):** I_{RMS}; Ampere rating for normal operation without core related losses **Note (3):** I_{SAT}; Saturation Ampere rating, see data sheet for percentage rolloff at 20°C

High Current Power Inductors (SMD) —

HCF1305 Series

Specifications:

- **Frequency Range:** 100kHz ~ 1MHz
- **Operating Temperature Range:** -40°C ~ 125°C
- **Solder Reflow Temperature:** 260°C maximum for 10 seconds

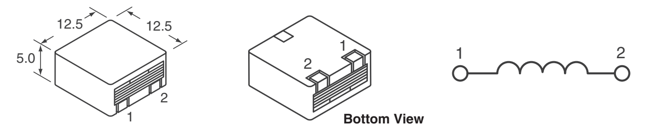

Inductance (µH)	OCL(1) ± 20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Amperes Peak	DCR (Typ) (mΩ)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
0.47	0.47	32.0	36.0	0.83	513-1508-1-ND	2.72	2.47	1.84	513-1508-2-ND	600	688.20	HCF1305-R47-R
0.56	0.56	32.0	30.0	0.83	513-1509-1-ND	2.72	2.47	1.84	513-1509-2-ND	600	688.20	HCF1305-R56-R
1.00	1.00	22.0	24.0	1.58	513-1510-1-ND	2.72	2.47	1.84	513-1510-2-ND	600	688.20	HCF1305-1R0-R
1.20	1.20	22.0	20.0	1.58	513-1511-1-ND	2.72	2.47	1.84	513-1511-2-ND	600	688.20	HCF1305-1R2-R
1.80	1.80	16.3	18.0	2.58	513-1512-1-ND	2.72	2.47	1.84	513-1512-2-ND	600	688.20	HCF1305-1R8-R
2.20	2.20	16.3	15.0	2.58	513-1513-1-ND	2.72	2.47	1.84	513-1513-2-ND	600	688.20	HCF1305-2R2-R
3.00	3.00	13.2	14.4	4.08	513-1514-1-ND	2.72	2.47	1.84	513-1514-2-ND	600	688.20	HCF1305-3R0-R
3.30	3.30	13.2	12.5	4.08	513-1515-1-ND	2.72	2.47	1.84	513-1515-2-ND	600	688.20	HCF1305-3R3-R
4.00	4.00	10.9	12.0	6.0	513-1516-1-ND	2.72	2.47	1.84	513-1516-2-ND	600	688.20	HCF1305-4R0-R
4.70	4.70	10.9	10.4	6.0	513-1517-1-ND	2.72	2.47	1.84	513-1517-2-ND	600	688.20	HCF1305-4R7-R

Note (1): OCL: Open Circuit Inductance test parameters: 100kHz, 0.1Vrms, 0.0Adc. OCL @ -40°C can be lower than OCL @20°C by 15% max. **Note (2):** Irms: DC current for an approximate DT of 40°C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed 125°C under worst case operating conditions verified in the end application. **Note (3)**: Isat1: Amperes Peak for approximately 30% rolloff (@25°C).

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

COILTRONICS®

High Current Power Inductors (Thru Hole) — HCPT1309 Series

RoHS COMPLIANT

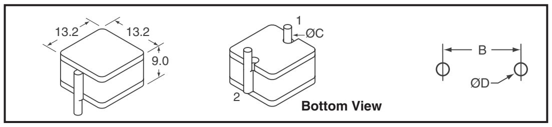

Specifications:

- **Frequency Range:** up to 1MHz • **Operating Temperature Range:** -40°C ~ 105°C • **Solder Reflow Temperature:** 260°C for 10 seconds maximum

OCL(1) nominal +/- 20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Peak 30% Rolloff @ 20°C	DCR (mΩ) nom @ 20°C	Dimensions (mm) B	C	D	Digi-Key Part No.	Price Each 1	10	100	Coiltronics Part No.
0.20	43.1	72.2	0.426	12.2	1.63	2.13	513-1518-ND	2.60	2.37	1.76	HCPT1309-R20-R
0.96	19.4	30.9	1.90	12.0	1.29	1.60	513-1519-ND	2.60	2.37	1.76	HCPT1309-1R0-R
1.59	13.7	24.1	3.82	11.8	1.15	1.40	513-1520-ND	2.60	2.37	1.76	HCPT1309-1R5-R
2.27	12.5	19.7	4.10	11.8	1.15	1.40	513-1521-ND	2.60	2.37	1.76	HCPT1309-2R2-R
3.31	11.4	16.7	4.80	11.8	1.15	1.40	513-1522-ND	2.60	2.37	1.76	HCPT1309-3R3-R

Note: (1) OCL: Open Circuit Inductance test parameters: 100kHz, 0.1Vrms, 0.0Adc. **Note: (2)** IRMS DC current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 105°C under worst case operating conditions. **Note: (3)** ISAT Amperes Peak for approximately 30% rolloff (@25°C) See data sheet for additional rolloff ratings.

Foil Technology, High Current Power Inductors (SMD)

RoHS COMPLIANT

Digi-Reel®

Series	Dimensions (mm) A	B	C
HC1	13	13	10
HC2LP	19.2	19.2	11.18

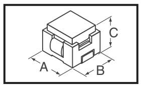

Features: • Designed for high current, high frequency, low voltage applications where low DCR and high efficiency are needed. **Specifications:** • **Operating Ambient Temperature Range:** -40°C ~ 85°C • **Solder Reflow Temperature:** 260°C for 10 seconds maximum • **Frequency Range:** 1kHz ~ 1MHz

Inductance (µH)	OCL(1) ± 20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Amperes Peak	DCR (mΩ) Max. @ 20°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
HC1 Series												
0.22	0.218	51.42	40.5	0.36	513-1160-1-ND	2.64	2.40	1.79	513-1160-2-ND	250	278.75	HC1-R22-R
1.0	1.12	28.01	25.4	1.23	513-1154-1-ND	2.64	2.40	1.79	513-1154-2-ND	250	278.75	HC1-1R0-R
1.7	1.66	22.3	22.2	2.0	513-1155-1-ND	2.64	2.40	1.79	513-1155-2-ND	250	278.75	HC1-1R7-R
2.3	2.29	22.3	16.7	2.0	513-1156-1-ND	2.64	2.40	1.79	513-1156-2-ND	250	278.75	HC1-2R3-R
3.6	3.59	16.76	13.4	3.5	513-1157-1-ND	2.64	2.40	1.79	513-1157-2-ND	250	278.75	HC1-3R6-R
5.1	5.15	12.79	11.2	5.7	513-1158-1-ND	2.64	2.40	1.79	513-1158-2-ND	250	278.75	HC1-5R1-R
7.8	7.85	12.79	6.7	5.7	513-1159-1-ND	2.64	2.40	1.79	513-1159-2-ND	250	278.75	HC1-7R8-R
10	10.5	12.79	5.3	5.7	513-1153-1-ND	2.64	2.40	1.79	513-1153-2-ND	250	278.75	HC1-100-R
HC2LP Series												
1.0	1.15	33.0	42.50	1.3	513-1555-1-ND ***NEW!***	5.15	4.68	3.48	513-1555-2-ND ***NEW!***	130	282.75	HC2LP-1R0-R
2.2	2.00	24.3	31.90	2.3	513-1161-1-ND	4.03	3.66	—	513-1161-2-ND	130	221.13	HC2LP-2R2-R
4.7	4.55	17.0	21.25	4.6	513-1162-1-ND	4.03	3.66	—	513-1162-2-ND	130	221.13	HC2LP-4R7-R
6.0	6.00	17.0	16.50	4.6	513-1163-1-ND	4.03	3.66	—	513-1163-2-ND	130	221.13	HC2LP-6R0-R

Note (1): Open Circuit Inductance Test Parameters: 300kHz, .25Vrms, 0.0 Adc and Isat. **Note (2):** IRMS Amperes for approximately ΔT of 40°C. DC current for an approximate ΔT of 40°C without core loss. Derating is necessary for AC currents. It is recommended that the temperature of the part not exceed 125°C under worst case operating conditions verified in the end application. **Note (3):** ISAT Amperes Peak for approximately 30% rolloff at 20°C.

Power Over Ethernet Transformers (SMD)

Digi-Reel® RoHS COMPLIANT

Series	Dimensions (mm) A	B	C
POE13W	18.0	24.6	10.0
POE26W	21.5	10.8	28.5

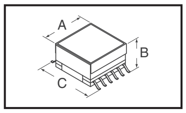

Features: Versatile design allows multiple output variations. For use in IEEE 802.3af compliant applications, UPS, VoiP Phone, Wireless LAN Access points, Bluetooth® Access points.
Specifications: • **Operating Temperature:** -40°C ~ 85°C • **Solder Reflow Temperature:** 260°C for 10 seconds maximum, 1500VAC isolation primary to secondary • **Open Circuit Inductance Test Parameters:** 100kHz, 0.1Vrms, 0.0Adc • **Leakage Inductance:** POE13W: 200kHz, 0.01Vrms, 0.0Adc; POE26W: 300kHz, 0.01Vrms, 0.0Adc

Wattage	Inductance (µH)	Output Ratings (No. of Outputs) x (V @ A)	Leakage Inductance Typ. (µH)	Primary Current Peak (Adc)	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
Flyback Topology											
13	100	(3) x 3.3V @ 1.35A	1.50	1.60	513-1104-1-ND	7.28	6.62	513-1104-2-ND	140	430.78	POE13W3X3.3-R
13	100	(3) x 5.0V @ 0.90A	1.20	1.60	513-1105-1-ND	7.28	6.62	513-1105-2-ND	140	430.78	POE13W3X5.0-R
13	100	(2) x 12.0V @ 0.60A	1.00	1.70	513-1103-1-ND	7.28	6.62	513-1103-2-ND	140	430.78	POE13W2X12-R
13	100	V1:7.0 @ 1.1A V2:3.3V @ 1.1A V3:1.8V @ 1.1A	1.00	1.70	513-1107-1-ND	7.28	6.62	513-1107-2-ND	140	430.78	POE13W3VERS-R
13	100	V1:5.0V @ 1.6A 2:3.3V @ 1.6A	1.20	1.70	513-1106-1-ND	7.28	6.62	513-1106-2-ND	140	430.78	POE13W2VERS-R
Forward Topology											
26	160	(2) 3.3V @ 4.0A	1.0	2.6	513-1384-1-ND	6.62	6.02	513-1384-2-ND	115	321.88	POE26W3.3VS5-R
26	160	(2) 3.3V @ 4.0A	1.0	2.6	513-1383-1-ND	6.62	6.02	513-1383-2-ND	115	321.88	POE26W3.3VS10-R
26	160	(2) 5.0V @ 2.6A	1.0	2.6	513-1385-1-ND	6.62	6.02	513-1385-2-ND	115	321.88	POE26W5V-R

VERSA-PAC® Inductors/ Transformers (SMD)

Digi-Reel® RoHS COMPLIANT

Series	Dimensions (mm) A	B	C
VP1 VPH1	12.9	13.0	6.2
VP2	16.3	16.8	7.8
VP3	17.1	22.3	8.4
VP4 VPH4	18.0	24.6	10.0
VP5	21.0	28.5	10.8

VP1, 2 and VPH1 Series

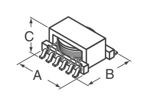

VP3, 4, VPH4 and VP5 Series

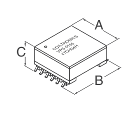

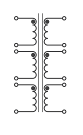

Specifications:

- **Operating Temperature:** -40°C ~ 85°C
- **Isolation Voltage:** 500VAC
- **Frequency Range:** 1MHz
- **Solder Reflow Temperature:** 260°C for 10 seconds maximum

Inductance(1) (BASE) ±20% (µH)	I_{SAT}(2,3) (BASE) Max. (Amperes)	I_{RMS}(2,4) (BASE) Typ. (Amperes)	Volt-µSec(5) (BASE) Max. (µVs)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Coiltronics Part No.
3.4	4.59	2.08	65.6	513-1540-ND§	8.38	7.62	5.67	—	—	—	VP5-0053-R
5.7	1.41	1.26	33.7	513-1537-1-ND	6.81	6.19	4.61	513-1537-2-ND	300	862.80	VP2-0116-R
6.1	1.75	1.70	44.7	513-1539-ND§	7.72	7.02	5.23	—	—	—	VP4-0075-R
9.9	1.60	2.08	65.6	513-1193-ND§	8.38	7.62	5.67	—	—	—	VP5-0155-R
10.6	0.76	1.26	33.7	513-1192-1-ND	6.81	6.19	4.61	513-1192-2-ND	300	862.80	VP2-0216-R
10.9	0.72	0.55	32.9	513-1559-1-ND ***NEW!***	6.96	6.33	4.71	513-1559-2-ND ***NEW!***	600	1764.00	VPH1-0076-R
11.2	0.59	1.47	27.7	513-1538-1-ND	6.99	6.35	4.73	513-1538-2-ND	200	590.80	VP3-0138-R
11.3	0.95	1.70	44.7	513-1558-ND§ ***NEW!***	11.79	10.71	7.97	—	—	—	VP4-0140-R
12.2	0.43	0.85	21.8	513-1191-1-ND	6.62	6.02	4.48	513-1191-2-ND	600	1679.40	VP1-0190-R
12.7	1.21	1.41	64.6	513-1541-ND§	15.73	14.29	10.64	—	—	—	VPH4-0075-R
21.6	0.53	0.95	48.3	513-1560-1-ND ***NEW!***	8.20	7.45	5.55	513-1560-2-ND ***NEW!***	300	1039.50	VPH2-0216-R
27.4	0.29	0.55	32.9	513-1194-1-ND	6.62	6.02	4.48	513-1194-2-ND	600	1679.40	VPH1-0190-R
159.65	0.11	1.41	64.6	513-1542-ND§†	10.28	9.35	6.96	—	—	—	VPH4-0860-R

Note (1): LBASE = Nominal Inductance of a single winding. **Note (2):** IBASE = is the lesser of ISAT(BASE) and IRMS(BASE) **Note (3):** Peak current that will result in 30% saturation of the core. This current value assumes that equal current flows in all six windings. Saturation current per winding may be calculated as follows: ISAT = 6 x ISAT(BASE)/Number of windings driven. **Note (4):** IRMS current that results in a surface temperature of approximately 40°C above ambient. The 40°C rise occurs when the specified current flows through each of the six windings. **Note (5):** For multiple windings in series, the volt-µsec TOTAL (µVs) capability varies as the number of windings in series (S): Volt-µsec TOTAL = S x Volt-µsec(BASE). For multiple windings in parallel, the Volt-µsecond TOTAL (µVs) capability is as shown in the table above. † These devices are designed for feed-forward applications, where load current dominates magnetizing current § Bulk

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY. Dale

High Current Low Profile Surface Mount Inductors —

IHLP Series

Digi-Reel® RoHS COMPLIANT

Features: • Shielded construction • Frequency range up to 5.0MHz (1.0MHz for IHLP1616AB and IHLP1616BZ series) • Lowest DCR/µH, in this package size • Handles high transient current spikes without saturation • Ultra low buzz noise, due to composite construction **Specifications:** • All test data is referenced to 25°C ambient • **Operating Temperature Range:** -55°C ~ 125°C • **Inductance Tolerance:** 20% **Applications:** PDA/Notebook/Desktop/Server applications (PDA application does not apply for IHLP5050EZ and IHLP5050FD series) • High current POL converters • Low profile, high current power supplies • Battery powered devices • DC/DC converters in distributed power systems • DC/DC converters for Field Programmable Gate Array (FPGA)

Fig. 1

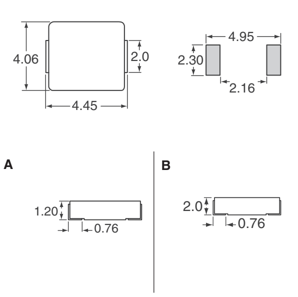

Fig. 2

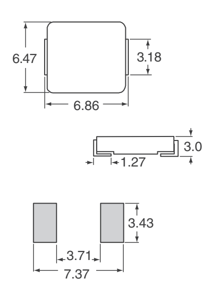

Fig. 3

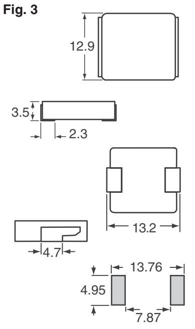

Fig. 4

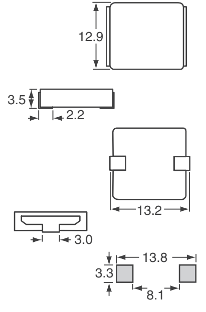

Fig. 5

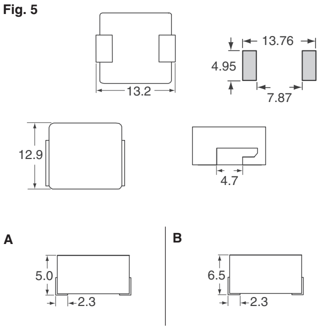

Fig.	Inductance µH ±20% @ 100kHz 0.25 V, 0 A	DCRmΩ Typical 25°C	DCRmΩ Max. 25°C	Heat Rating Current DC Amps Typical	Saturation Current DC Amps Typical‡	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Vishay Part No.
1A	0.22	11.0	12.0	8.5†	20.0	541-1041-1-ND	2.15	1.74	1.45	541-1041-2-ND	4,000	986.00/M	IHLP1616ABERR22M01
	0.47	20.0	22.0	5.0†	13.0	541-1042-1-ND	2.15	1.74	1.45	541-1042-2-ND	4,000	986.00/M	IHLP1616ABERR47M01
	1.0	50.0	52.5	4.0†	8.5	541-1043-1-ND	2.15	1.74	1.45	541-1043-2-ND	4,000	986.00/M	IHLP1616ABER1R0M01
	1.0	43.0	47.0	4.2†	4.5	541-1044-1-ND	2.15	1.74	1.45	541-1044-2-ND	4,000	986.00/M	IHLP1616ABER1R0M11
	2.2	90.0	100.0	2.75†	3.0	541-1045-1-ND	2.15	1.74	1.45	541-1045-2-ND	4,000	986.00/M	IHLP1616ABER2R2M11
1B	0.22	7.3	8.0	13.0†	24.0	541-1046-1-ND	2.18	1.77	1.48	541-1046-2-ND	4,000	1003.00/M	IHLP1616BZERR22M01
	1.0	33.0	37.0	3.75†	8.5	541-1047-1-ND	2.18	1.77	1.48	541-1047-2-ND	4,000	1003.00/M	IHLP1616BZER1R0M01
	2.2	80.0	90.0	2.85†	6.0	541-1048-1-ND	2.18	1.77	1.48	541-1048-2-ND	4,000	1003.00/M	IHLP1616BZER2R2M01
	1.0	24.0	27.0	4.5†	5.0	541-1049-1-ND	2.18	1.77	1.48	541-1049-2-ND	4,000	1003.00/M	IHLP1616BZER1R0M11
	2.2	61.0	68.0	3.25†	3.25	541-1050-1-ND	2.18	1.77	1.48	541-1050-2-ND	4,000	1003.00/M	IHLP1616BZER2R2M11
	4.7	95.0	105.0	1.7†	1.75	541-1051-1-ND	2.18	1.77	1.48	541-1051-2-ND	4,000	1003.00/M	IHLP1616BZER4R7M11
2	0.10	1.5	1.7	32.5▲	60.0	541-1000-1-ND	1.89	1.53	1.28	541-1000-2-ND	2,000	867.00/M	IHLP2525CZERR10M01
	0.20	2.4	3.0	24.0▲	41.0	541-1001-1-ND	1.89	1.53	1.28	541-1001-2-ND	2,000	867.00/M	IHLP2525CZERR20M01
	0.33	3.5	3.9	20.0▲	30.0	541-1002-1-ND	1.89	1.53	1.28	541-1002-2-ND	2,000	867.00/M	IHLP2525CZERR33M01
	0.47	4.0	4.2	17.5▲	26.0	541-1003-1-ND	1.89	1.53	1.28	541-1003-2-ND	2,000	867.00/M	IHLP2525CZERR47M01
	0.68	5.0	5.5	15.5▲	25.0	541-1004-1-ND	1.89	1.53	1.28	541-1004-2-ND	2,000	867.00/M	IHLP2525CZERR68M01
	0.82	6.7	8.0	13.0▲	24.0	541-1005-1-ND	1.89	1.53	1.28	541-1005-2-ND	2,000	867.00/M	IHLP2525CZERR82M01
	1.0	9.0	10.0	11.0▲	22.0	541-1006-1-ND	1.89	1.53	1.28	541-1006-2-ND	2,000	867.00/M	IHLP2525CZER1R0M01
	1.5	14.0	15.0	9.0▲	18.0	541-1007-1-ND	1.89	1.53	1.28	541-1007-2-ND	2,000	867.00/M	IHLP2525CZER1R5M01
	2.2	18.0	20.0	8.0▲	14.0	541-1008-1-ND	1.89	1.53	1.28	541-1008-2-ND	2,000	867.00/M	IHLP2525CZER2R2M01
	3.3	28.0	30.0	6.0▲	13.5	541-1009-1-ND	1.89	1.53	1.28	541-1009-2-ND	2,000	867.00/M	IHLP2525CZER3R3M01
	4.7	37.0	40.0	5.5▲	10.0	541-1010-1-ND	1.89	1.53	1.28	541-1010-2-ND	2,000	867.00/M	IHLP2525CZER4R7M01
	6.8	54.0	60.0	4.5▲	8.0	541-1011-1-ND	2.26	1.83	1.53	541-1011-2-ND	2,000	1037.00/M	IHLP2525CZER6R8M01
	8.2	64.0	68.0	4.0▲	7.5	541-1012-1-ND	2.26	1.83	1.53	541-1012-2-ND	2,000	1037.00/M	IHLP2525CZER8R2M01
	10.0	102.0	105.0	3.0▲	7.0	541-1013-1-ND	2.26	1.83	1.53	541-1013-2-ND	2,000	1037.00/M	IHLP2525CZER100M01
3	0.47	1.6	2.0	32.0†	55.0	541-1014-1-ND	4.26	3.45	2.88	541-1014-2-ND	500	977.50	IHLP5050CEERR47M01
4	0.68	2.3	2.5	28.0†	49.0	541-1015-1-ND	4.26	3.45	2.88	541-1015-2-ND	500	977.50	IHLP5050CEERR68M01
	0.82	2.6	3.0	25.0†	44.0	541-1016-1-ND	4.26	3.45	2.88	541-1016-2-ND	500	977.50	IHLP5050CEERR82M01
	1.0	3.3	3.5	24.0†	40.0	541-1017-1-ND	4.26	3.45	2.88	541-1017-2-ND	500	977.50	IHLP5050CEER1R0M01
	1.5	5.1	5.5	19.0†	35.0	541-1018-1-ND	4.26	3.45	2.88	541-1018-2-ND	500	977.50	IHLP5050CEER1R5M01
	2.2	7.2	8.0	16.0†	29.0	541-1019-1-ND	4.26	3.45	2.88	541-1019-2-ND	500	977.50	IHLP5050CEER2R2M01
	3.3	11.0	12.0	12.0†	27.0	541-1020-1-ND	4.26	3.45	2.88	541-1020-2-ND	500	977.50	IHLP5050CEER3R3M01
	4.7	14.3	15.0	10.0†	24.0	541-1021-1-ND	4.26	3.45	2.88	541-1021-2-ND	500	977.50	IHLP5050CEER4R7M01
	5.6	18.3	19.0	9.5†	19.0	541-1022-1-ND	4.77	3.87	3.23	541-1022-2-ND	500	1096.50	IHLP5050CEER5R6M01
	6.8	19.8	22.0	9.0†	18.0	541-1023-1-ND	4.77	3.87	3.23	541-1023-2-ND	500	1096.50	IHLP5050CEER6R8M01
	10.0	30.4	34.0	7.0†	14.0	541-1024-1-ND	4.77	3.87	3.23	541-1024-2-ND	500	1096.50	IHLP5050CEER100M01
5A	1.0	2.1	2.5	29.0†	50.0	541-1025-1-ND	4.88	3.96	3.30	541-1025-2-ND	250	561.00	IHLP5050EZER1R0M01
	2.2	4.6	5.5	20.0†	32.0	541-1026-1-ND	4.88	3.96	3.30	541-1026-2-ND	250	561.00	IHLP5050EZER2R2M01
	3.3	7.7	9.2	15.0†	32.0	541-1027-1-ND	4.88	3.96	3.30	541-1027-2-ND	250	561.00	IHLP5050EZER3R3M01
	4.7	12.8	15.0	12.0†	27.0	541-1028-1-ND	4.88	3.96	3.30	541-1028-2-ND	250	561.00	IHLP5050EZER4R7M01
	6.8	15.4	18.5	11.0†	21.0	541-1029-1-ND	7.10	5.76	4.80	541-1029-2-ND	250	629.00	IHLP5050EZER6R8M01
	10.0	21.4	25.5	9.0†	16.0	541-1030-1-ND	5.48	4.44	3.70	541-1030-2-ND	250	629.00	IHLP5050EZER100M01
5B	0.47	1.0	1.2	41.0†	63.0	541-1031-1-ND	5.48	4.44	3.70	541-1031-2-ND	250	629.00	IHLP5050FDERR47M01
	1.0	1.7	2.0	32.0†	49.0	541-1032-1-ND	5.48	4.44	3.70	541-1032-2-ND	250	629.00	IHLP5050FDER1R0M01
	2.2	3.5	4.2	22.0†	40.0	541-1033-1-ND	7.29	5.91	4.93	541-1033-2-ND	250	629.00	IHLP5050FDER2R2M01
	3.3	5.7	6.8	18.0†	35.0	541-1034-1-ND	5.48	4.44	3.70	541-1034-2-ND	250	629.00	IHLP5050FDER3R3M01
	4.7	9.3	11.2	13.5†	30.0	541-1035-1-ND	5.48	4.44	3.70	541-1035-2-ND	250	629.00	IHLP5050FDER4R7M01
	10.0	16.4	17.2	10.0†	15.5	541-1036-1-ND	8.21	6.66	5.55	541-1036-2-ND	250	943.50	IHLP5050FDER100M01

† DC current (A) that will cause an approximate ΔT of 40°C ▲ DC Current (A) that will cause an approximate ΔGT of 40°C ‡ DC current (A) that will cause Lo to drop approximately 20%
NOTE: The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

High Current Surface Mount Inductors —

IHSM4825 Series

Digi-Reel® RoHS COMPLIANT

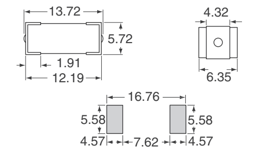

Features: • Flame retardant encapsulant (UL 94V-0) • Completely encapsulated winding provides superior environmental protection and moisture resistance • High current unit in surface mount package printed with model, inductance value and date code • Compatible with infrared or conventional reflow soldering methods • Pick and place compatible **Applications:** • Excellent for power line noise filters • Filters for switching regulated power supplies • DC/DC converters • SCR and Triac controls • RFI suppression **Electrical Specifications:** • Inductance: Measured at 1V with no DC current • Inductance Tolerance: ±15% • Incremental Current: The typical current at which the inductance will be decreased by 5% from its initial zero DC value • Operating Temperature: -55°C ~ 125°C (no load); -55°C ~ 85°C (at full rated current) **Material Specifications:** • Core: High resistivity ferrite core • Encapsulant: Epoxy • Terminals: 100% Sn over Ni

Inductance @ 1kHz (µH)	DCR Max. (Ω)	Rated Current (Max Amps)	Incremental Current (Amps Approx.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 750	Vishay Part No.
1.0	0.013	8.6	4.1	541-1037-1-ND	3.15	2.55	2.13	541-1037-2-ND	1083.75	IHSM4825ER1R0L
22.0	0.152	1.7	1.02	541-1038-1-ND	3.29	2.67	2.23	541-1038-2-ND	1134.75	IHSM4825ER220L
47.0	0.362	1.07	0.74	541-1039-1-ND	2.96	2.40	2.00	541-1039-2-ND	1020.00	IHSM4825ER470L
100.0	0.672	0.73	0.5	541-1040-1-ND	2.96	2.40	2.00	541-1040-2-ND	1020.00	IHSM4825ER101L

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Unshielded Drum Core – DU Series

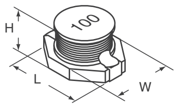

Features: • Drop in replacements for industry prevalent competitor series • High energy storage and low resistance • Ideal for DC-DC buck or boost conversion • Robust temperature deflection to prevent damage during solder reflow

Specifications: • **Operating Temperature Rating:** -40°C ~ 85°C **Note (A):** Nominal Inductance tested at 100kHz, 100mVrms at 20°C **Note (B):** DC current applied to produce a typical 10% drop in inductance **Note (C):** DC resistance is maximum at 20°C

Inductance µH(A)	Pkg. Size	Tol.	ISAT A(B)	DCR Max. Ω(C)	Dimension (mm) L	W	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	CoEv Part No.
MGDU2 Series															
10	1330	±20%	2.00	0.110	12.95	9.40	3.30	436-1140-1-ND	1.60	1.44	1.20	—	—	—	MGDU2-00001
47			0.80	0.390				436-1142-1-ND	1.45	1.31	1.09	—	—	—	MGDU2-00005
100			0.60	0.840				436-1141-1-ND	1.60	1.44	1.20	436-1141-2-ND	1,000	544.00	MGDU2-00007
470			0.20	4.000				436-1143-1-ND	1.45	1.31	1.09	—	—	—	MGDU2-00011
MGDU3 Series															
1.0	1352	±20%	6.80	0.0092	12.95	9.40	5.21	436-1146-1-ND	1.65	1.49	1.24	436-1146-2-ND	700	346.50	MGDU3-00004
4.7			4.80	0.0184				436-1149-1-ND	1.65	1.49	1.24	—	—	—	MGDU3-00003
10			3.90	0.0380				436-1144-1-ND	1.65	1.49	1.24	—	—	—	MGDU3-00009
100			1.30	0.2800				436-1145-1-ND	1.65	1.49	1.24	436-1145-2-ND	700	346.50	MGDU3-00015
470			0.50	1.2700				436-1148-1-ND	1.55	1.40	1.17	436-1148-2-ND	700	325.50	MGDU3-00019
MGDU4 Series															
10	1311	±20%	3.50	0.040	12.95	9.40	11.43	436-1136-1-ND	1.70	1.53	1.28	436-1136-2-ND	250	127.50	MGDU4-00002
47			1.60	0.110				436-1138-1-ND	1.70	1.53	1.28	—	—	—	MGDU4-00006
100			1.20	0.220				436-1137-1-ND	1.70	1.53	1.28	—	—	—	MGDU4-00008
470			0.30	0.950				436-1139-1-ND	1.70	1.53	1.28	—	—	—	MGDU4-00012
MGDU5 Series															
10	1971	±20%	4.30	0.031	18.54	15.24	7.40	436-1150-1-ND	1.80	1.62	1.35	436-1150-2-ND	250	135.00	MGDU5-00008
47			2.60	0.086				436-1153-1-ND	1.80	1.62	1.35	436-1153-2-ND	250	135.00	MGDU5-00012
100			1.80	0.190				436-1151-1-ND	1.80	1.62	1.35	436-1151-2-ND	250	135.00	MGDU5-00014
470			0.82	0.850				436-1154-1-ND	2.00	1.80	1.50	—	—	—	MGDU5-00018
1,000			0.56	1.800				436-1152-1-ND	1.80	1.62	1.35	—	—	—	MGDU5-00025

Shielded Drum Core – DS Series

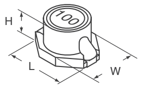

Features: • Drop-in replacements for industry prevalent competitor series • Ideal for DC-DC buck or boost conversion • High energy storage and low resistance • Robust temperature deflection to prevent damage during solder reflow **Specifications:** • **Operating Temperature Rating:** -40°C ~ 85°C **Note (A):** Nominal Inductance tested at 100kHz, 100mVrms at 20°C **Note (B):** DC current applied to produce a typical 10% drop in inductance **Note (C):** DC resistance is maximum at 20°C

Inductance µH(A)	Pkg. Size	Tol.	ISAT A(B)	DCR Max. Ω(C)	Dimension (mm) L	W	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	CoEv Part No.
MGDS5 Series												
47	1976	±20%	2.40	0.097	18.54	15.25	7.62	436-1134-1-ND	2.20	1.98	1.65	MGDS5-00005
470			0.73	1.080				436-1135-1-ND	2.20	1.98	1.65	MGDS5-00011

Shielded Drum Core – DQ Series

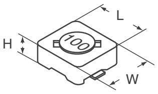

Features: • High energy storage and low resistance • Smaller real estate than other common inductors • Robust temperature deflection to prevent damage during solder reflow • Highly resistive core for EMI suppression applications **Specifications:** • **Operating Temperature Rating:** -40°C ~ 85°C **Note (A):** Nominal Inductance tested at 1kHz, 1Vrms at 20°C **Note (B):** DC current applied to produce a typical 30% drop from the measured nominal inductance **Note (C):** DC resistance is maximum at 20°C

Inductance µH(A)	Pkg. Size	Tol.	ISAT A(B)	DCR Max. Ω(C)	Dimension (mm) L	W	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	CoEv Part No.
MGDQ4 Series															
10	7545	±20%	1.84	0.049	7.50	7.50	4.50	436-1129-1-ND	1.65	1.49	1.24	436-1129-2-ND	1,000	495.00	MGDQ4-00004
47			0.88	0.260				436-1131-1-ND	1.55	1.40	1.17	—	—	—	MGDQ4-00012
100			0.60	0.610				436-1130-1-ND	1.55	1.40	1.17	—	—	—	MGDQ4-00016
MGDQ5 Series															
10	1260	±20%	4.00	0.025	12.80	12.80	6.00	436-1120-1-ND	1.35	1.22	1.02	—	—	—	MGDQ5-00005
47			1.80	0.075				436-1123-1-ND	1.30	1.17	.98	—	—	—	MGDQ5-00013
100			1.30	0.160				436-1121-1-ND	1.35	1.22	1.02	—	—	—	MGDQ5-00017
1,000			0.40	1.530				436-1122-1-ND	1.35	1.22	1.02	—	—	—	MGDQ5-00029
MGDQ6 Series															
4.7	1280	±20%	13.50	0.016	12.50	12.50	8.00	436-1128-1-ND	1.80	1.62	1.35	436-1128-2-ND	300	162.00	MGDQ6-00006
10			5.40	0.022				436-1124-1-ND	1.70	1.53	1.28	—	—	—	MGDQ6-00009
47			2.50	0.100				436-1127-1-ND	1.80	1.62	1.35	436-1127-2-ND	300	162.00	MGDQ6-00017
100			1.70	0.220				436-1125-1-ND	1.80	1.62	1.35	436-1125-2-ND	300	162.00	MGDQ6-00021
1,000			0.55	1.820				436-1126-1-ND	1.80	1.62	1.35	436-1126-2-ND	300	162.00	MGDQ6-00033

Chip Coils Monolithic and Film Type SMD

Dimensions in mm

Inductance (nH)	Tolerance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel* Qty.	Tape and Reel* Pricing	Murata Part No.
LQP03T_00 Series — Case 0201													
1.0	±0.2nH	500	400	13	0.10 max.	6,000	490-2481-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN1N0C00D
1.2	±0.2nH	500	280	13	0.13 max.	6,000	490-2482-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN1N2C00D
1.5	±0.2nH	500	280	13	0.16 max.	6,000	490-2483-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN1N5C00D
1.8	±0.2nH	500	280	13	0.16 max.	6,000	490-2484-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN1N8C00D
2.2	±0.2nH	500	220	13	0.18 max.	6,000	490-2485-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN2N2C00D
2.7	±0.2nH	500	220	13	0.21 max.	6,000	490-2486-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN2N7C00D
3.3	±0.2nH	500	190	13	0.30 max.	6,000	490-2487-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN3N3C00D
3.9	±0.2nH	500	170	13	0.45 max.	6,000	490-2488-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN3N9C00D
4.7	±5%	500	160	13	0.55 max.	6,000	490-2489-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN4N7J00D
5.6	±5%	500	140	13	0.68 max.	6,000	490-2490-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN5N6J00D
6.8	±5%	500	130	13	0.75 max.	6,000	490-2491-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN6N8J00D
8.2	±5%	500	110	13	0.86 max.	5,500	490-2492-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN8N2J00D
LQP03T_04 Series — Case 0201													
1.0	±0.2nH	500	400	13	0.10 max.	6,000	490-4069-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN1N0C04D
1.2	±0.2nH	500	280	13	0.13 max.	6,000	490-4070-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN1N2C04D
1.5	±0.2nH	500	280	13	0.16 max.	6,000	490-4071-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN1N5C04D
1.8	±0.2nH	500	280	13	0.16 max.	6,000	490-4072-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN1N8C04D
2.2	±0.2nH	500	220	13	0.18 max.	6,000	490-4073-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN2N2C04D
3.3	±0.2nH	500	190	13	0.20 max.	6,000	490-4074-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN3N3C04D
3.9	±0.2nH	500	170	13	0.30 max.	6,000	490-4075-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN3N9C04D
4.7	±5%	500	160	13	0.40 max.	6,000	490-4076-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN4N7J04D
5.6	±5%	500	140	13	0.55 max.	6,000	490-4077-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN5N6J04D
6.8	±5%	500	130	13	0.60 max.	6,000	490-4078-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN6N8J04D
8.2	±5%	500	110	13	0.86 max.	5,500	490-4079-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN8N2J04D
10	±5%	500	100	13	1.10 max.	4,500	490-4080-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN10NJ04D
12	±5%	500	90	11	1.15 max.	3,700	490-4081-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN12NJ04D
15	±5%	500	90	11	1.40 max.	3,700	490-4082-1-ND	.33	2.77	22.12	10,000	27.00/M	LQP03TN15NJ04D
18	±5%	500	80	11	1.60 max.	3,100	490-4083-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN18NJ04D
22	±5%	500	70	11	2.55 max.	2,800	490-4084-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN22NJ04D
27	±5%	500	70	11	2.90 max.	2,500	490-4085-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN27NJ04D
33	±5%	300	60	8	2.95 max.	2,000	490-4086-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN33NJ04D
39	±5%	300	60	8	3.35 max.	1,800	490-4087-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN39NJ04D
47	±5%	300	50	8	3.60 max.	1,600	490-4088-1-ND	.25	2.11	16.88	10,000	74.00/M	LQP03TN47NJ04D
56	±5%	300	50	8	4.30 max.	1,400	490-4089-1-ND	.09	.79	6.28	10,000	74.00/M	LQP03TN56NJ04D
LQP15M Series — Case 0402													
1.0	±0.1nH	500	400	13	0.10 max.	6,000	490-1124-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N0B02D
1.2	±0.1nH	500	390	13	0.10 max.	6,000	490-1125-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N2B02D
1.5	±0.1nH	500	280	13	0.20 max.	6,000	490-1126-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N5B02D
1.8	±0.1nH	500	280	13	0.20 max.	6,000	490-1127-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N8B02D
2.2	±0.1nH	500	220	13	0.30 max.	6,000	490-1128-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN2N2B02D
2.7	±0.1nH	500	220	13	0.30 max.	6,000	490-1129-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN2N7B02D
3.3	±0.1nH	500	190	13	0.40 max.	6,000	490-1130-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN3N3B02D
3.9	±0.1nH	500	170	13	0.50 max.	6,000	490-1131-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN3N9B02D
4.7	±0.1nH	500	160	13	0.60 max.	6,000	490-1132-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN4N7B02D
5.6	±0.1nH	500	140	13	0.70 max.	6,000	490-1133-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN5N6B02D
6.8	±0.1nH	500	130	13	0.90 max.	6,000	490-1134-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN6N8B02D
8.2	±0.1nH	500	110	13	1.10 max.	5,500	490-1135-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN8N2B02D
LQG15HS Series — Case 0402													
1.0	±0.3nH	100	300	8	0.07 max.	10,000	490-2610-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS1N0S02D
1.2	±0.3nH	100	300	8	0.09 max.	6,000	490-2611-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS1N2S02D
1.5	±0.3nH	100	300	8	0.10 max.	6,000	490-2612-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS1N5S02D
1.8	±0.3nH	100	300	8	0.10 max.	6,000	490-2613-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS1N8S02D
2.2	±0.3nH	100	300	8	0.12 max.	6,000	490-2614-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS2N2S02D
2.7	±0.3nH	100	300	8	0.15 max.	6,000	490-2615-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS2N7S02D
3.3	±0.3nH	100	300	8	0.17 max.	6,000	490-2616-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS3N3S02D
3.9	±0.3nH	100	300	8	0.18 max.	6,000	490-2617-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS3N9S02D
4.7	±0.3nH	100	300	8	0.18 max.	6,000	490-2618-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS4N7S02D
5.6	±0.3nH	100	300	8	0.20 max.	4,500	490-2619-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS5N6S02D
6.2	±0.3nH	100	300	8	0.22 max.	4,500	490-2620-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS6N2S02D
6.8	±5%	100	300	8	0.24 max.	4,500	490-2621-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS6N8J02D
7.5	±5%	100	300	8	0.24 max.	4,200	490-3456-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS7N5J02D
8.2	±5%	100	300	8	0.24 max.	3,700	490-2622-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS8N2J02D
10	±5%	100	300	8	0.26 max.	3,400	490-2623-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS10NJ02D
12	±5%	100	300	8	0.28 max.	3,000	490-2624-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS12NJ02D
15	±5%	100	300	8	0.32 max.	2,500	490-2625-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS15NJ02D
18	±5%	100	300	8	0.36 max.	2,200	490-2626-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS18NJ02D
22	±5%	100	300	8	0.42 max.	1,900	490-2627-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS22NJ02D
27	±5%	100	300	8	0.46 max.	1,700	490-2628-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS27NJ02D
33	±5%	100	200	8	0.58 max.	1,600	490-2629-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS33NJ02D
39	±5%	100	200	8	0.65 max.	1,200	490-2630-1-ND	.09	.79	6.32	10,000	27.65/M	LQG15HS39NJ02D
47	±5%	100	200	8	0.72 max.	1,000	490-2631-1-ND	.09	.79	6.32	10,000	27.65/M	LQG15HS47NJ02D
56	±5%	100	200	8	0.82 max.	800	490-2632-1-ND	.09	.79	6.32	10,000	27.65/M	LQG15HS56NJ02D
68	±5%	100	180	8	0.92 max.	800	490-2633-1-ND	.09	.79	6.32	10,000	27.65/M	LQG15HS68NJ02D
82	±5%	100	150	8	1.20 max.	700	490-2634-1-ND	.11	.88	7.00	10,000	30.63/M	LQG15HS82NJ02D
100	±5%	100	150	8	1.25 max.	600	490-2635-1-ND	.11	.88	7.00	10,000	30.63/M	LQG15HSR10J02D
120	±5%	100	150	8	1.30 max.	600	490-2636-1-ND	.11	.88	7.00	10,000	30.63/M	LQG15HSR12J02D
150	±5%	100	140	8	2.99 max.	550	490-2637-1-ND	.11	.96	7.64	10,000	33.00/M	LQG15HSR15J02D
180	±5%	100	130	8	3.38 max.	500	490-2638-1-ND	.11	.96	7.64	10,000	33.43/M	LQG15HSR18J02D
220	±5%	100	120	8	3.77 max.	450	490-2639-1-ND	.11	.96	7.64	10,000	33.00/M	LQG15HSR22J02D
270	±5%	100	110	8	4.94 max.	400	490-2640-1-ND	.11	.96	7.64	10,000	33.00/M	LQG15HSR27J02D
LQM18F Series — Case 0603													
1000	±20%	1	150	—	0.20±30%	120	490-4022-1-ND	.16	1.30	10.36	4,000	45.00/M	LQM18FN1R0M00D
2200	±20%	1	120	—	0.40±30%	80	490-4023-1-ND	.16	1.30	10.36	4,000	45.00/M	LQM18FN2R2M00D
4700	±20%	1	80	—	0.60±30%	50	490-4024-1-ND	.16	1.30	10.36	4,000	45.00/M	LQM18FN4R7M00D
10000	±20%	1	50	—	0.90±30%	30	490-4025-1-ND	.16	1.30	10.36	4,000	45.00/M	LQM18FN100M00D
LQM18N Series — Case 0603													
47	±20%	50	50	10	0.30 max.	260	490-1110-1-ND	.23	1.93	15.44	4,000	67.55/M	LQM18NN47NM00D
68	±20%	50	50	10	0.30 max.	250	490-4032-1-ND	.23	1.93	15.44	4,000	68.00/M	LQM18NN68NM00D
100	±10%	25	50	15	0.50 max.	240	490-1111-1-ND	.23	1.93	15.44	4,000	67.55/M	LQM18NNR10K00D
150	±10%	25	50	15	0.60 max.	180	490-4033-1-ND	.23	1.93	15.44	4,000	68.00/M	LQM18NNR15K00D
220	±10%	25	50	15	0.80 max.	150	490-4034-1-ND	.23	1.93	15.44	4,000	68.00/M	LQM18NNR22K00D
330	±10%	25	35	15	0.85 max.	125	490-4035-1-ND	.23	1.93	15.44	4,000	68.00/M	LQM18NNR33K00D
470	±10%	25	35	15	1.35 max.	105	490-4036-1-ND	.23	1.93	15.44	4,000	68.00/M	LQM18NNR47K00D
680	±10%	25	35	15	1.70 max.	90	490-4037-1-ND	.23	1.93	15.44	4,000	68.00/M	LQM18NNR68K00D
1000	±10%	10	25	35	0.60 max.	75	490-1112-1-ND	.26	2.18	17.40	4,000	76.13/M	LQM18NN1R0K00D
1500	±10%	10	25	35	0.80 max.	60	490-4038-1-ND	.26	2.18	17.40	4,000	76.00/M	LQM18NN1R5K00D
2200	±10%	10	15	35	1.15 max.	50	490-1113-1-ND	.26	2.18	17.40	4,000	76.13/M	LQM18NN2R2K00D

* For Tape and Reel part number, change 1-ND to 2-ND.

LQP03T_00 Series

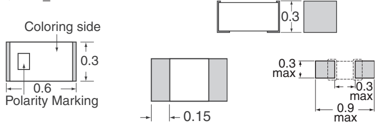

Murata's original thin film technology contributes further to miniaturizing high performance equipment because the size is small and the Q-value is high.

LQP03T_04 Series

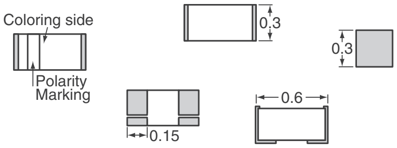

Features: • Ultra small 0201 size • High Q value of some items has been heightened and direction indicator has been enabled this enables easy impedance at matching RF and IF circuits • High frequency designing.

LQP15M Series

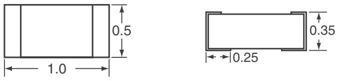

Features: • Tight inductance tolerance • Ultra small size 0402 inductor, low profile and lightest weight in the world, enables miniaturization of mobile telecommunication equipment • Weight: LQP15M Series 0.61mg/pcs. multilayer film type inductor 0.94mg/pcs

LQG15HS Series

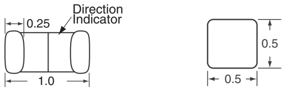

Chip inductors specifically designed for high frequency applications. They are designed to realize stable characteristics in high frequency range applying integrated multilayer process. Integrated multilayer process enables a wide range of inductance values with tight tolerance.

LQM18F Series

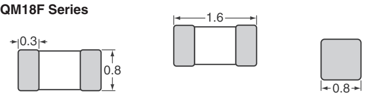

Special ferrite material, whose inductance change caused by bias current is small, enables large rated current of 50mA at 10 micro H. Magnetically shielded structure enables good crosstalk characteristics.

LQM18N Series

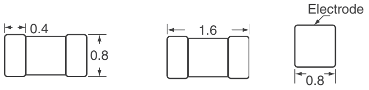

Magnetically shielded chip coils were developed by using original multilayer process technology and magnetic materials. Compact size is suitable for high density mounting. Shielded construction is not affected by interference from peripheral components.

LQG18H Series

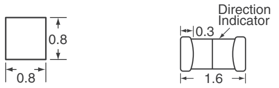

Designed to realize stable characteristics in high frequency range applying integrated multilayer process. Monolithic air core.

LQM21D Series

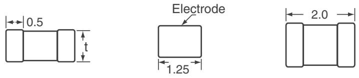

Consists of magnetically shielded chip inductors. It has less than half the DC resistance of our conventional monolithic chip inductors as well as high inductance. Monolithic design.

Part No.	t
LQM21DN4R7N00D LQM21DN100N00D	0.85 ± 0.2
LQM21DN220N00L	1.25 ± 0.2

(Continued)

Chip Coils Monolithic and Film Type SMD *(Cont.)*

Inductance (nH)	Tolerance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel* Qty.	Pricing	Murata Part No.
LQG18H Series — Case 0603													
1.2	±0.3nH	100	500	12	0.10 max.	6,000	490-1099-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN1N2S00D
1.5	±0.3nH	100	500	12	0.10 max.	6,000	490-1100-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN1N5S00D
1.8	±0.3nH	100	500	12	0.10 max.	6,000	490-1101-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN1N8S00D
2.2	±0.3nH	100	500	12	0.10 max.	6,000	490-1102-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN2N2S00D
2.7	±0.3nH	100	500	12	0.15 max.	6,000	490-1103-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN2N7S00D
3.3	±0.3nH	100	500	12	0.15 max.	6,000	490-1104-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN3N3S00D
3.9	±0.3nH	100	450	12	0.15 max.	6,000	490-1105-1-ND	.25	2.05	16.40	4,000	72.00/M	LQG18HN3N9S00D
4.7	±0.3nH	100	450	12	0.20 max.	6,000	490-1106-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN4N7S00D
5.6	±0.3nH	100	430	12	0.20 max.	5,000	490-1107-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN5N6S00D
6.8	±5%	100	430	12	0.25 max.	5,000	490-1108-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN6N8J00D
8.2	±5%	100	400	12	0.25 max.	4,000	490-1109-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN8N2J00D
LQM21D Series — Case 0805													
4.7µH	±30%	1	30	—	0.30 max.	35	490-1120-1-ND	.26	2.19	17.52	4,000	76.65/M	LQM21DN4R7N00D
10µH	±30%	1	15	—	0.50 max.	24	490-1121-1-ND	.26	2.19	17.52	4,000	76.65/M	LQM21DN100N00D
22µH	±30%	1	13	—	0.65 max.	16	490-1123-1-ND	.26	2.19	17.52	3,000	76.65/M	LQM21DN220N00L
LQM21F Series — Case 0805													
1.0µH	±30%	1	220	—	0.20±30%	105	490-4026-1-ND	.15	1.29	10.32	4,000	45.00/M	LQM21FN1R0N00D
2.2µH	±30%	1	150	—	0.28±30%	70	490-4027-1-ND	.15	1.29	10.32	4,000	45.00/M	LQM21FN2R2N00D
4.7µH	±20%	1	120	—	0.35±30%	25	490-4028-1-ND	.25	2.10	16.76	3,000	73.00/M	LQM21FN4R7M70L
10µH	±20%	1	100	—	0.60±30%	15	490-4029-1-ND	.27	2.22	17.72	3,000	78.00/M	LQM21FN100M70L
10µH	±30%	1	60	—	0.50±30%	15	490-1122-1-ND	.18	1.51	12.08	3,000	52.85/M	LQM21FN100N00L
22µH	±30%	1	13	—	0.35±30%	15	490-4030-1-ND	.18	1.51	12.08	3,000	53.00/M	LQM21FN220N00L
47µH	±30%	1	7	—	0.60±30%	7.5	490-4031-1-ND	.18	1.51	12.08	3,000	53.00/M	LQM21FN470N00L
LQM21N Series — Case 0805													
0.1µH	±10%	25	250	20	0.26 max.	340	490-1114-1-ND	.23	1.88	15.04	4,000	65.80/M	LQM21NNR10K10D
0.22µH	±10%	25	250	20	0.38 max.	220	490-1115-1-ND	.23	1.88	15.04	4,000	65.80/M	LQM21NNR22K10D
0.47µH	±10%	25	200	25	0.57 max.	150	490-1116-1-ND	.23	1.88	15.04	4,000	65.80/M	LQM21NNR47K10D
1.0µH	±10%	10	50	45	0.40 max.	107	490-1117-1-ND	.24	2.03	16.20	4,000	70.88/M	LQM21NN1R0K10D
1.5µH	±10%	10	50	45	0.50 max.	87	490-1118-1-ND	.24	2.03	16.20	4,000	70.88/M	LQM21NN1R5K10D
2.2µH	±10%	10	30	45	0.63 max.	71	490-1119-1-ND	.24	2.03	16.20	4,000	70.88/M	LQM21NN2R2K10D
NEW! LQM21P Series — Case 0805 NEW!													
0.47µH	±20%	1	1100	—	0.12±25%	100	490-4991-1-ND	.31	2.60	20.80	4,000	91.00/M	LQM21PNR47MC0D
1.0µH	±20%	1	800	—	0.19±25%	90	490-4992-1-ND	.31	2.60	20.80	4,000	91.00/M	LQM21PN1R0MC0D
1.5µH	±20%	1	700	—	0.26±25%	70	490-4993-1-ND	.36	3.04	24.32	4,000	106.00/M	LQM21PN1R5MC0D
2.2µH	±20%	1	600	—	0.34±25%	50	490-4994-1-ND	.31	2.60	20.80	4,000	91.00/M	LQM21PN2R2MC0D
LQM31P Series — Case 1206													
1.0µH	±20%	1	1200	—	0.12±25%	60	490-4039-1-ND	.54	4.54	36.28	3,000	159.00/M	LQM31PN1R0M00L

* For Tape and Reel part number, change 1-ND to 2-ND.

LQM21F Series

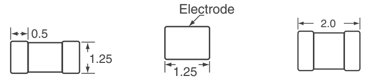

Suitable for power line choke because of its excellent direct current characteristics. The series has larger rated current (60mA at 10 micro H) than conventional rated current. Monolithic ferrite core.

LQM21N Series

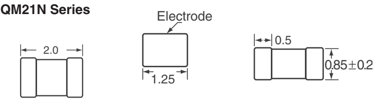

Consists of magnetically shielded chip inductors developed using Murata's original multilayer process technology and magnetic materials. The miniature size of 2.0mm x 1.25mm enables compact design of electric equipment.

LQM21P Series ***NEW!***

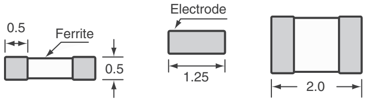

Features: • Small size in 2.0x1.25mm • Low profile • Large rated current of 1100mA • Magnetically shielded structure • Outstanding solder heat resistance, either flow or reflow soldering methods can be employed
Applications: • DC-DC converter circuits for mobile equipment

LQM31P Series

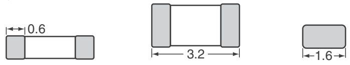

Features low DC resistance and magnetically shielded structure. Outstanding solder heat resistance. Either flow or reflow soldering methods can be employed.

Chip Coils Wound Type SMD

Inductance (nH)	Tolerance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR Max. (ohm)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Qty.	Pricing	Murata Part No.
LQW15A Series — Case 0402													
1.5	±0.5nH	100	1000	10†	0.03	18	490-1136-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN1N5D00D
2.7	±0.5nH	100	850	20†	0.05	15	490-1137-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN2N7D00D
4.3	±0.2nH	100	750	25†	0.07	10	490-1138-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN4N3C00D
4.7	±0.2nH	100	750	25†	0.07	8	490-1139-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN4N7C00D
5.1	±0.5nH	100	600	25†	0.12	8	490-1140-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN5N1D00D
6.2	±0.5nH	100	700	25†	0.09	8	490-1141-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN6N2D00D
6.8	±5%	100	700	25†	0.09	6	490-1142-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN6N8J00D
7.5	±5%	100	570	25†	0.13	6	490-1143-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN7N5J00D
8.2	±5%	100	540	25†	0.14	5.5	490-1144-1-ND	.44	.37	.30	10,000	129.15/M	LQW15AN8N2J00D
9.1	±5%	100	540	25†	0.14	5.5	490-1145-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN9N1J00D
10	±5%	100	500	25†	0.17	5.5	490-1146-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN10NJ00D
12	±5%	100	500	30†	0.14	5.5	490-1147-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN12NJ00D
15	±5%	100	460	30†	0.16	5	490-1148-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN15NJ00D
18	±5%	100	370	25†	0.27	4.5	490-1149-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN18NJ00D
22	±5%	100	310	25†	0.30	4	490-1150-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN22NJ00D
27	±5%	100	280	25†	0.52	3.5	490-1151-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN27NJ00D
33	±5%	100	260	25†	0.63	3.2	490-1152-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN33NJ00D
39	±5%	100	250	25†	0.70	3	490-1153-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN39NJ00D
47	±5%	100	210	25§	1.08	2.9	490-1154-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN47NJ00D
56	±5%	100	200	25§	1.17	2.8	490-1155-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN56NJ00D
82	±5%	100	130	20▲	2.24	2.3	490-1157-1-ND	.44	.37	.30	10,000	129.15/M	LQW15AN82NJ00D
100	±5%	100	120	20▲	2.52	1.5	490-4090-1-ND	.44	.37	.30	10,000	129.00/M	LQW15ANR10J00D
120	±5%	100	110	20▲	2.66	1.0	490-4091-1-ND	.44	.37	.30	10,000	129.00/M	LQW15ANR12J00D

† Test Frequency at 250MHz § Test Frequency at 200MHz ▲ Test Frequency at 150MHz
* For Tape and Reel part number, change 1-ND to 2-ND.

Inductance (nH)	Tolerance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Qty.	Pricing	Murata Part No.
LQW18A Series — Case 0603													
2.2	±0.5nH	100	700	16†	0.049 max.	6,000	490-1158-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN2N2D00D
3.6	±0.5nH	100	850	25†	0.059 max.	6,000	490-1159-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN3N6D00D
3.9	±0.5nH	100	850	35†	0.059 max.	6,000	490-1160-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN3N9D00D
4.3	±0.5nH	100	850	35†	0.059 max.	6,000	490-1161-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN4N3D00D
4.7	±0.5nH	100	850	35†	0.059 max.	6,000	490-1162-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN4N7D00D
5.6	±0.5nH	100	750	35†	0.082 max.	6,000	490-1164-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN5N6D00D
6.2	±0.5nH	100	750	35†	0.082 max.	6,000	490-1163-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN6N2D00D
6.8	+0.5nH	100	750	35†	0.082 max.	6,000	490-1165-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN6N8D00D
7.5	±0.5nH	100	750	35†	0.082 max.	6,000	490-1166-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN7N5D00D
8.2	±0.5nH	100	650	35†	0.11 max.	6,000	490-1167-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN8N2D00D
8.7	±0.5nH	100	650	35†	0.11 max.	6,000	490-1168-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN8N7D00D
10	±5%	100	650	35†	0.11 max.	6,000	490-1169-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN10NJ00D
12	±5%	100	600	35†	0.13 max.	6,000	490-1170-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN12NJ00D
15	±5%	100	600	40†	0.13 max.	6,000	490-1171-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN15NJ00D

† Test Frequency at 250MHz § Test Frequency at 200MHz ▲ Test Frequency at 150MHz ‡ Test Frequency at 100MHz
* For Tape and Reel part number, change 1-ND to 2-ND.

Dimensions in mm

LQW15A Series

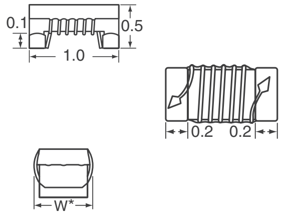

*W: 0.6±0.1 (1.5-22nH),
0.5±0.1 (27-56nH)

Consists of air core chip coil using a miniature alumina core. Has high Q value and high self resonant frequency in high frequency range. Suitable for high frequency circuits which are used in telecommunication equipment.

LQW18A Series

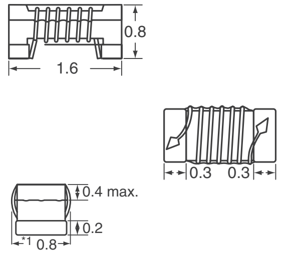

*1 LQW18AN_
10:0.8±0.3

Horizontal winding structure enables tight inductance. High self resonant frequency realizes high-Q value and stable inductance at high frequency. Low DC resistance design is ideal for low loss, high output and low power consumption.

(Continued)

Chip Coils Wound Type SMD *(Cont.)*

Inductance (nH)	Tolerance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel*		Murata Part No.
								1	10	100	Qty.	Pricing	
18	±5%	100	550	40†	0.16 max.	5,500	490-1172-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN18NJ00D
22	±5%	100	500	40†	0.17 max.	4,600	490-1173-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN22NJ00D
27	±5%	100	440	40†	0.21 max.	3,700	490-1174-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN27NJ00D
33	±5%	100	420	40†	0.23 max.	3,200	490-1175-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN33NJ00D
39	±5%	100	400	40†	0.26 max.	2,800	490-1176-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN39NJ00D
56	±5%	100	360	38§	0.35 max.	2,400	490-1177-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN56NJ00D
68	±5%	100	340	38§	0.38 max.	2,200	490-1178-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN68NJ00D
100	±5%	100	220	34▲	0.68 max.	1,800	490-1179-1-ND	.39	.33	.27	4,000	115.15/M	LQW18ANR10J00D
120	±5%	100	180	32▲	1.3 max.	1,600	490-1180-1-ND	.39	.33	.27	4,000	115.15/M	LQW18ANR12J00D
270	±5%	100	110	30‡	3.4 max.	960	490-1181-1-ND	.43	.36	.29	4,000	126.00/M	LQW18ANR27J00D
330	±5%	100	85	30‡	5.5 max.	800	490-1182-1-ND	.43	.36	.29	4,000	126.00/M	LQW18ANR33J00D
390	±5%	100	80	30‡	6.2 max.	800	490-1183-1-ND	.43	.36	.29	4,000	126.00/M	LQW18ANR39J00D
470	±5%	100	75	30‡	7.0 max.	700	490-1184-1-ND	.43	.36	.29	4,000	126.00/M	LQW18ANR47J00D
LQH2MC_02 Series — Case 0806													
1000	±20%	1	485	—	0.3±30%	100	490-4040-1-ND	.72	.60	.48	3,000	209.00/M	LQH2MCN1R0M02L
1500	±20%	1	445	—	0.4±30%	95	490-4041-1-ND	.72	.60	.48	3,000	209.00/M	LQH2MCN1R5M02L
2200	±20%	1	425	—	0.48±30%	70	490-4042-1-ND	.72	.60	.48	3,000	209.00/M	LQH2MCN2R2M02L
3300	±20%	1	375	—	0.6±30%	65	490-4043-1-ND	.72	.60	.48	3,000	209.00/M	LQH2MCN3R3M02L
4700	±20%	1	300	—	0.8±30%	60	490-4044-1-ND	.72	.60	.48	3,000	209.00/M	LQH2MCN4R7M02L
6800	±20%	1	255	—	1.0±30%	55	490-4045-1-ND	.72	.60	.48	3,000	209.00/M	LQH2MCN6R8M02L
10000	±10%	1	225	—	1.2±30%	48	490-4046-1-ND	.72	.60	.48	3,000	209.00/M	LQH2MCN100K02L
15000	±10%	1	200	—	1.6±30%	40	490-4047-1-ND	.72	.60	.48	3,000	209.00/M	LQH2MCN150K02L
22000	±10%	1	185	—	2.1±30%	30	490-4048-1-ND	.72	.60	.48	3,000	209.00/M	LQH2MCN220K02L
33000	±10%	1	160	—	2.8±30%	28	490-4049-1-ND	.72	.60	.48	3,000	209.00/M	LQH2MCN330K02L
47000	±10%	1	120	—	5.1±30%	18	490-4050-1-ND	.72	.60	.48	3,000	209.00/M	LQH2MCN470K02L
68000	±10%	1	100	—	6.6±30%	14	490-4051-1-ND	.72	.60	.48	3,000	209.00/M	LQH2MCN680K02L
NEW! LQH2MC_52 Series — Case 0806 NEW!													
1.0	±20%	1	595	—	0.25±30%	215	490-4984-1-ND	.89	.75	.60	3,000	261.00/M	LQH2MCN1R0M52L
1.5	±20%	1	540	—	0.33±30%	165	490-4985-1-ND	.89	.75	.60	3,000	261.00/M	LQH2MCN1R5M52L
2.2	±20%	1	500	—	0.42±30%	125	490-4986-1-ND	.89	.75	.60	3,000	261.00/M	LQH2MCN2R2M52L
3.3	±20%	1	360	—	0.74±30%	110	490-4987-1-ND	.89	.75	.60	3,000	261.00/M	LQH2MCN3R3M52L
4.7	±20%	1	335	—	0.91±30%	90	490-4988-1-ND	.89	.75	.60	3,000	261.00/M	LQH2MCN4R7M52L
6.8	±20%	1	285	—	1.23±30%	65	490-4989-1-ND	.89	.75	.60	3,000	261.00/M	LQH2MCN6R8M52L
10	±20%	1	200	—	2.27±30%	60	490-4990-1-ND	.89	.75	.60	3,000	261.00/M	LQH2MCN100M52L
LQY33P Series													
2200	±20%	1	720	—	0.36±30%	270	490-4052-1-ND	.72	.60	.48	1,500	209.00/M	LQY33PN2R2M02L
4700	±20%	1	600	—	0.53±30%	160	490-4053-1-ND	.72	.60	.48	—	—	LQY33PN4R7M02L

† Test Frequency at 250MHz § Test Frequency at 200MHz ▲ Test Frequency at 150MHz ‡ Test Frequency at 100MHz

* For Tape and Reel part number, change 1-ND to 2-ND.

Inductance (µH)	Tolerance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel*		Murata Part No.
								1	10	100	Qty.	Pricing	
LQH32C_23 Series — Case 1210													
1.0	±20%	1	800	—	0.09±30%	96	490-2493-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN1R0M23L
2.2	±20%	1	600	—	0.13±30%	64	490-2494-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN2R2M23L
4.7	±20%	1	450	—	0.2±30%	43	490-2495-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN4R7M23L
10	±10%	1	300	—	0.44±30%	26	490-2496-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN100K23L
47	±10%	1	170	—	1.3±30%	15	490-2497-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN470K23L
220	±10%	1	70	—	8.4±30%	6.8	490-4066-1-ND	.39	.33	.26	2,000	113.00/M	LQH32CN221K23L
330	±10%	1	60	—	10±30%	5.6	490-2498-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN331K23L
390	±10%	1	60	—	17±30%	5	490-4067-1-ND	.39	.33	.26	2,000	113.00/M	LQH32CN391K23L
470	±10%	1kHz	60	—	19±30%	5	490-2499-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN471K23L
560	±10%	1kHz	60	—	22±30%	5	490-4068-1-ND	.39	.33	.26	2,000	113.00/M	LQH32CN561K23L
LQH32C_53 Series — Case 1210													
1.0	±20%	1	1000	—	0.060±30%	100	490-4055-1-ND	.42	.36	.29	2,000	123.00/M	LQH32CN1R0M53L
2.2	±20%	1	790	—	0.097±30%	64	490-4056-1-ND	.42	.36	.29	2,000	123.00/M	LQH32CN2R2M53L
4.7	±20%	1	650	—	0.15±30%	43	490-4057-1-ND	.42	.36	.29	2,000	123.00/M	LQH32CN4R7M53L
6.8	±20%	1	540	—	0.25±30%	32	490-4058-1-ND	.42	.36	.29	2,000	123.00/M	LQH32CN6R8M53L
10	±10%	1	450	—	0.30±30%	26	490-4059-1-ND	.42	.36	.29	2,000	123.00/M	LQH32CN100K53L
15	±10%	1	300	—	0.58±30%	26	490-4060-1-ND	.42	.36	.29	2,000	123.00/M	LQH32CN150K53L
22	±10%	1	250	—	0.71±30%	19	490-4061-1-ND	.42	.36	.29	2,000	123.00/M	LQH32CN220K53L
33	±10%	1	200	—	1.1±30%	17	490-4062-1-ND	.42	.36	.29	2,000	123.00/M	LQH32CN330K53L
47	±10%	1	170	—	1.3±30%	15	490-4063-1-ND	.42	.36	.29	2,000	123.00/M	LQH32CN470K53L
68	±10%	1	130	—	2.2±30%	12	490-4064-1-ND	.42	.36	.29	2,000	123.00/M	LQH32CN680K53L
100	±10%	1	100	—	3.5±30%	10	490-4065-1-ND	.42	.36	.29	2,000	123.00/M	LQH32CN101K53L
LQH43C Series — Case 1812													
1.0	±20%	1	1080	—	0.08 max.	100	490-2514-1-ND	.64	.54	.43	500	93.10	LQH43CN1R0M03L
2.2	±20%	1	900	—	0.11 max.	60	490-2515-1-ND	.64	.54	.43	500	93.10	LQH43CN2R2M03L
3.3	±20%	1	800	—	0.13 max.	47	490-2516-1-ND	.64	.54	.43	500	93.10	LQH43CN3R3M03L
4.7	±20%	1	750	—	0.15 max.	35	490-2517-1-ND	.64	.54	.43	500	93.10	LQH43CN4R7M03L
6.8	±20%	1	720	—	0.20 max.	30	490-2518-1-ND	.64	.54	.43	500	93.10	LQH43CN6R8M03L
10	±10%	1	650	—	0.24 max.	23	490-2519-1-ND	.64	.54	.43	500	93.10	LQH43CN100K03L
33	±10%	1	310	—	1.0 max.	12	490-2520-1-ND	.64	.54	.43	500	93.10	LQH43CN330K03L
47	±10%	1	280	—	1.1 max.	10	490-2521-1-ND	.64	.54	.43	500	93.10	LQH43CN470K03L
68	±10%	1	220	—	1.7 max.	8.4	490-2522-1-ND	.64	.54	.43	500	93.10	LQH43CN680K03L
330	±10%	1	100	—	6.8 max.	3.6	490-2523-1-ND	.67	.56	.45	500	97.65	LQH43CN331K03L
470	±10%	1kHz	90	—	8.5 max.	3.0	490-2524-1-ND	.67	.56	.45	500	97.65	LQH43CN471K03L
LQH43M Series — Case 1812													
3.9	±20%	1	500	20	0.38 max.	41	490-2525-1-ND	.79	.66	.53	500	114.89	LQH43MN3R9M03L
5.6	±10%	1	500	30	0.47 max.	33	490-2526-1-ND	.79	.66	.53	500	114.89	LQH43MN5R6K03L
27	±10%	1	300	35	1.1 max.	14	490-2527-1-ND	.63	.53	.43	500	92.58	LQH43MN270K03L

* For Tape and Reel part number, change 1-ND to 2-ND. ‡ Test Frequency at 796kHz

LQH2MC_02 Series

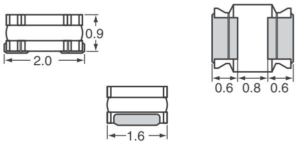

Wire wound type with low profile (0.95mm) and wide inductance range.

LQH2MC_52 Series *NEW!*

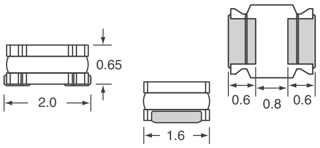

Features: • Wire wound type with 0.70mm maximum ultra low-profile • Rated current: 595mA (1.0µH) • Inductance range: 1.0µH ~ 10µH
Applications: • DC-DC converter

LQY33P Series

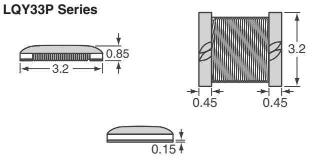

Small size with large rated current (2.2µH). Small inductance change plus bias current enables high performance for DC-DC converter. Magnetically shielded structure. Low profile.

LQH32C_23 Series

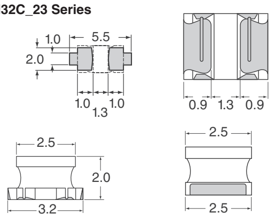

Consists of miniature chip coils with low DC resistance, high current capacity, and high impedance characteristics. Features are possible by the development of Murata's automatic winding techniques. Excellent for use as power supply line choke coils.

LQH32C_53 Series

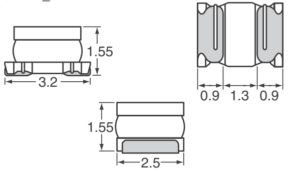

Consists of miniature chip coils with low DC resistance, high current capacity and high impedence characteristics. Excellent for use as choke coils in DC power supply circuits. High rated current and low profile with a maximum height of 1.7mm

LQH43C Series

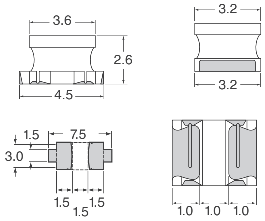

Consists of miniature chip inductors with low DC resistance, high current capacity, and high impedance characteristics. It is suitable for use as choke coil in DC power supply circuits.

(Continued)

Chip Coils Wound Type SMD *(Cont.)*

Induct-ance (µH)	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Qty.	Pricing	Murata Part No.
82	±10%	1	170	35	2.2 max.	7.5	490-2528-1-ND	.63	.53	.43	500	92.58	LQH43MN820K03L
150	±10%	1	130	40‡	3.7 max.	5.5	490-2529-1-ND	.63	.53	.43	500	92.58	LQH43MN151K03L
LQH32M Series — Case 1210													
1.0	±20%	1	445	20	0.5 max.	100	490-2500-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN1R0M23L
2.2	±10%	1	370	20	0.8 max.	50	490-2501-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN2R2K23L
4.7	±10%	1	270	20	1.2 max.	31	490-2502-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN4R7K23L
6.8	±10%	1	240	20	1.5 max.	25	490-2503-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN6R8K23L
8.2	±10%	1	225	20	1.6 max.	23	490-2504-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN8R2K23L
10	±5%	1	190	35	1.8 max.	20	490-2505-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN100J23L
22	±5%	1	150	35	2.8 max.	14	490-2506-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN220J23L
33	±5%	1	115	40	3.5 max.	12	490-2507-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN330J23L
47	±5%	1	100	40	4.3 max.	11	490-2508-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN470J23L
150	±5%	1	70	40‡	9.3 max.	7	490-2509-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN151J23L
270	±5%	1	65	40‡	12.5 max.	5	490-2510-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN271J23L
330	±5%	1	65	40‡	13.0 max.	5	490-2511-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN331J23L
390	±5%	1	50	50‡	22.0 max.	5	490-2512-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN391J23L
560	±5%	1kHz	40	50‡	28.0 max.	5	490-2513-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN561J23L

* For Tape and Reel part number, change 1-ND to 2-ND. ‡ Test Frequency at 796kHz

LQH43M Series

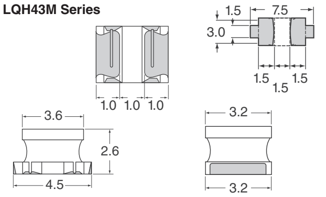

Consists of winding type chip coils for general use by Murata's original auto winding technology and ferrite core. High Q value at high frequency and low DC resistance.

LQH32M Series

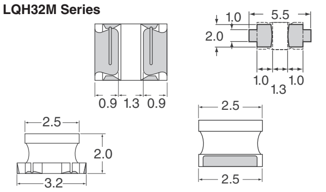

Consists of miniature chip inductors wound on a special ferrite core. High Q value at high frequency and low DC resistance.

Common Mode Choke Coils Wound Type, Film Type and Film Type Arrays

DLW21H Series: Excellent noise suppression for limited board space applications. Suitable for differential signal line like USB2.0, IEEE1394 and LVDS. DLW21H does not provide distortion to high speed signal transmission due to its high coupling. (USB2.0:DLW21HN900SQ2).

DLW31S Series: High common mode impedance at high frequency provides excellent noise suppression performance. DLW31S series enables noise suppression for differential signal line without distortion in high speed signal transmission due to its high coupling. Small dimension enables higher density mounting.

DLW5BS Series: High performance wound type chip common mode choke coil. Its high impedance characteristic enables great noise suppression, but it does not damage high speed signal due to low normal mode impedance.

DLW5BT Series: Suitable for noise suppression at DC power line and portable equipment. Low profile. Small size and high rated current. High common mode impedance.

DLP31S Series: Has excellent performance at high frequency range. Suitable for differential signal line like USB, because DLP31S does not provide distortion to high speed signal transmission due to its high coupling (coupling coefficient: 0.98 minimum).

DLP31D Series: Utilizing ferrite materials and thin film technology, this common mode choke coil array has high impedance characteristics all packaged in a small case size. 2 components are included in 3.2 x 1.6mm. DLP31D can suppress common mode noise without damage to signal wave.

Dimensions in mm

DLW21H Series

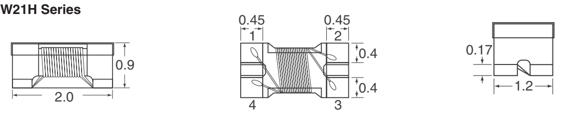

DLW5BT Series

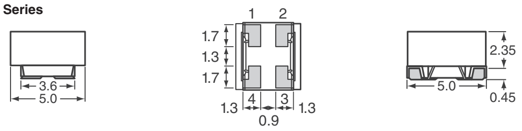

DLW31S Series

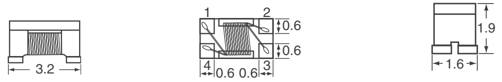

DLP31S Series

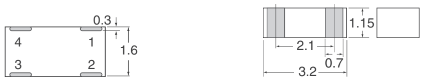

DLW5BS Series

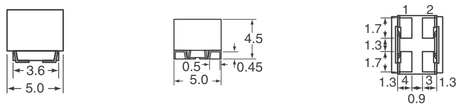

DLP31D Series

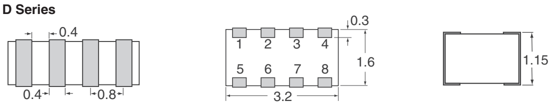

Common Mode Impedance (at 100MHz) (ohm)	Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (min.) (M ohm)	With-standing Voltage (Vdc)	DC Resis-tance (ohm)	Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
DLW21H Series — Wound Type													
67	330	50	10	125	0.35 max.	490-1063-1-ND	.60	.52	.48	490-1063-2-ND	3,000	276.50/M	DLW21HN670SQ2L
90	330	50	10	125	0.35 max.	490-1064-1-ND	.60	.52	.48	490-1064-2-ND	3,000	276.50/M	DLW21HN900SQ2L
120	280	50	10	125	0.45 max.	490-1065-1-ND	.60	.52	.48	490-1065-2-ND	3,000	276.50/M	DLW21HN121SQ2L
180	250	50	10	125	0.50 max.	490-1066-1-ND	.60	.52	.48	490-1066-2-ND	3,000	276.50/M	DLW21HN181SQ2L
DLW31S Series — Wound Type													
2200 (Typ.)	200	50	10	125	1.2	490-1070-1-ND	1.07	.93	.86	490-1070-2-ND	2,000	498.75/M	DLW31SN222SQ2L
1000 (Typ.)	230	50	10	125	1.0	490-1069-1-ND	1.07	.93	.86	490-1069-2-ND	2,000	498.75/M	DLW31SN102SQ2L
600 (Typ.)	260	50	10	125	0.8	490-1068-1-ND	1.07	.93	.86	490-1068-2-ND	2,000	498.75/M	DLW31SN601SQ2L
90 (Typ.)	370	50	10	125	0.3	490-1067-1-ND	1.07	.93	.86	490-1067-2-ND	2,000	498.75/M	DLW31SN900SQ2L
DLW5BS Series — Wound Type													
1000 (Typ.)	1500	50	10	125	0.06	490-1072-1-ND	2.11	1.83	1.69	490-1072-2-ND	400	392.56	DLW5BSN102SQ2L
350 (Typ.)	2000	50	10	125	0.04	490-1071-1-ND	2.11	1.83	1.69	490-1071-2-ND	400	392.40	DLW5BSN351SQ2L
DLW5BT Series — Wound Type													
100 (Typ.)	6000	50	10	125	0.009±40%	490-4019-1-ND	1.18	1.02	.94	490-4019-2-ND	700	383.60	DLW5BTN101SQ2L
1000 (Typ.)	2000	50	10	125	0.024±40%	490-4018-1-ND	1.18	1.02	.94	490-4018-2-ND	700	383.60	DLW5BTN102SQ2L
1400 (Typ.)	1500	50	10	125	0.040±40%	490-4017-1-ND	1.22	1.05	.97	490-4017-2-ND	700	383.60	DLW5BTN142SQ2L
DLP31S Series — Film Type													
120 ±20%	100	16	100	40	2.0 max.	490-4020-1-ND	1.40	1.21	1.12	490-4020-2-ND	3,000	650.00/M	DLP31SN121ML2L
550 ±20%	100	16	100	40	3.6 max.	490-4021-1-ND	1.40	1.21	1.12	490-4021-2-ND	3,000	650.00/M	DLP31SN551ML2L
DLP31D Series — Film Type Arrays													
90	160	10	100	25	1.1 max.	490-2474-1-ND	1.46	1.27	1.17	490-2474-2-ND	3,000	678.83/M	DLP31DN900ML4L
130	120	10	100	25	1.6 max.	490-2475-1-ND	1.46	1.27	1.17	490-2475-2-ND	3,000	678.83/M	DLP31DN131ML4L
200	100	10	100	25	2.2 max.	490-2476-1-ND	1.46	1.27	1.17	490-2476-2-ND	3,000	678.83/M	DLP31DN201ML4L
320	80	10	100	25	3.5 max.	490-2477-1-ND	1.46	1.27	1.17	490-2477-2-ND	3,000	678.83/M	DLP31DN321ML4L
440	70	10	100	25	4.3 max.	490-2478-1-ND	1.46	1.27	1.17	490-2478-2-ND	3,000	678.83/M	DLP31DN441ML4L

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic®

Surface Mount Inductors

Non Wound and Wire Wound type chip inductors for non automatic and high-density mounting.

Features: • High Q • Good for mounting • Wide availability range (1.0nH ~ 1000µH) • Stable L-value in any mounting direction (non winding type)

Recommended Applications: • Portable telephones, Wireless Communication equipment (W-LAN, BT), PDA, Camcorder, DSC, Various modules, HIC, TV, VTR, PC peripherals

Item / Styles / Type	Non Wound Type		Wire Wound Type					
	F 0402 (1005)	E 0603 (1608)	K 0402 (1005)	J 0603 (1608)	D 0805 (2012)	C 1008 (2520)	A 1210 (3225)	B 1812 (4532)
Non Magnetic Core	ELJRF	ELJRE	ELJNK	—	ELJND	ELJNC	ELJNA	—
Higher Q Type	ELJQF	—	—	ELJFJ	—	—	—	—
Regular	—	—	—	ELJFJ	ELJFD	ELJFC	ELJFA	ELJFB
Shield	—	—	—	—	—	ELJSC	ELJSA	—
High Power	ELJPF	ELJPE	—	—	—	ELJPC	ELJPA	ELJPB
Low DC Resistance	—	—	—	—	—	—	ELJEA	—

Fig. 1 - 0402 (1005)

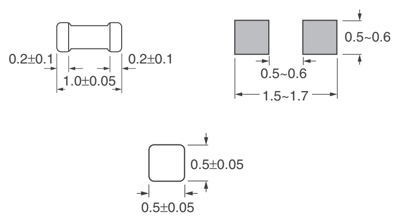

RF Type (Non-winding design)**:** • High Q • High self-resonant frequency • Non Polarity
QF Type: • High Q • Lead-Free
PF Type: • High power type • Stable for power line as choke coil

Fig. 2 - 0603 (1608)

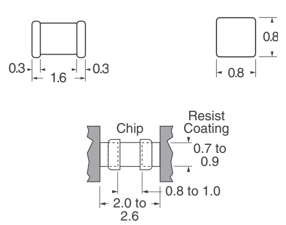

RE Type (Non-winding design): • Small size • High self-resonant frequency • Tight tolerance
PE Type (Non-winding design): • Small size • High self-resonant frequency

Fig. 3 - 0805 (2012)

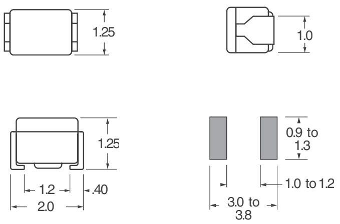

ND Type: • High Q • High self-resonant frequency
FD Type: • High Q • Standard version of ND Type

Fig. 4 - 1008 (2520)

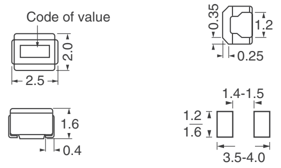

NC Type: • Low inductance, tight tolerance and small size • Suitable for high-frequency circuits • Coreless type • L is stable with respect to temperature and humidity
FC/SC Type: • Smallest of the coil type inductors • Suitable for a variety of small processing circuits • SC Type is equipped with a magnetic shield function
PC Type: • High rated DC current • Low DC resistance • Suitable for power circuits

Fig. 5 - 1210 (3225)

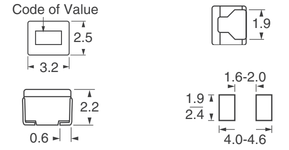

FA Type: • Chip inductor for general use • Compact size with a wide inductance range
NA Type: • Coreless Type • L is stable with respect to temperature and humidity suitable for high-frequency circuits
SA Type: • Use of ferrite resin giving it an additional function of magnetic shield • Compact size with high inductance
PA Type: • High power • High rated DC current • Suitable for power line as choke coil **EA Type:** • Low DC resistance

Fig. 6 - 1812 (4532)

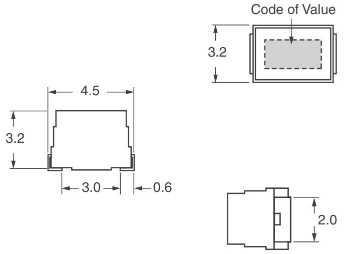

FB and PB Type: • Chip inductor for general use • High inductance

Inductance	Tolerance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
Fig. 1, 0402 (1005) — Type RF (2% Tolerance) — RoHS Compliant															
1.0nH	±0.2nH	8	—	100	6000	0.05	400	PCD1898CT-ND	.12	.96	7.56	PCD1898TR-ND	10,000	41.00/M	ELJ-RF1N0ZFB
1.2nH	±0.2nH	8	—	100	6000	0.06	400	PCD1899CT-ND	.12	.96	7.56	PCD1899TR-ND	10,000	41.00/M	ELJ-RF1N2ZFB
1.5nH	±0.2nH	8	—	100	6000	0.07	400	PCD1900CT-ND	.12	.96	7.56	PCD1900TR-ND	10,000	41.00/M	ELJ-RF1N5ZFB
1.8nH	±0.2nH	8	—	100	6000	0.08	400	PCD1901CT-ND	.12	.96	7.56	PCD1901TR-ND	10,000	41.00/M	ELJ-RF1N8ZFB
2.2nH	±0.2nH	8	—	100	6000	0.09	400	PCD1902CT-ND	.12	.96	7.56	PCD1902TR-ND	10,000	41.00/M	ELJ-RF2N2ZFB
2.7nH	±0.2nH	8	—	100	5500	0.10	400	PCD1903CT-ND	.12	.96	7.56	PCD1903TR-ND	10,000	41.00/M	ELJ-RF2N7ZFB
3.3nH	±0.2nH	8	—	100	5500	0.12	400	PCD1904CT-ND	.12	.96	7.56	PCD1904TR-ND	10,000	41.00/M	ELJ-RF3N3ZFB
3.9nH	±0.2nH	8	—	100	5200	0.15	360	PCD1905CT-ND	.12	.96	7.56	PCD1905TR-ND	10,000	41.00/M	ELJ-RF3N9ZFB
4.7nH	±0.2nH	8	—	100	4800	0.17	360	PCD1906CT-ND	.12	.96	7.56	PCD1906TR-ND	10,000	41.00/M	ELJ-RF4N7ZFB
5.6nH	±0.2nH	8	—	100	4600	0.19	340	PCD1907CT-ND	.12	.96	7.56	PCD1907TR-ND	10,000	41.00/M	ELJ-RF5N6ZFB
6.8nH	±0.2nH	8	—	100	4000	0.30	320	PCD1908CT-ND	.12	.96	7.56	PCD1908TR-ND	10,000	41.00/M	ELJ-RF6N8ZFB
8.2nH	±0.2nH	8	—	100	3500	0.35	320	PCD1909CT-ND	.12	.96	7.56	PCD1909TR-ND	10,000	41.00/M	ELJ-RF8N2ZFB
10nH	±2%	8	—	100	2800	0.41	320	PCD1910CT-ND	.12	.96	7.56	PCD1910TR-ND	10,000	41.00/M	ELJ-RF10NGFB
12nH	±2%	8	—	100	2800	0.45	320	PCD1911CT-ND	.12	.96	7.56	PCD1911TR-ND	10,000	41.00/M	ELJ-RF12NGFB
15nH	±2%	8	—	100	2500	0.60	240	PCD1912CT-ND	.12	.96	7.56	PCD1912TR-ND	10,000	41.00/M	ELJ-RF15NGFB
18nH	±2%	8	—	100	2200	0.70	240	PCD1913CT-ND	.12	.96	7.56	PCD1913TR-ND	10,000	41.00/M	ELJ-RF18NGFB
22nH	±2%	8	—	100	2000	0.80	200	PCD1914CT-ND	.12	.96	7.56	PCD1914TR-ND	10,000	41.00/M	ELJ-RF22NGFB
27nH	±2%	8	—	100	1800	1.20	200	PCD1915CT-ND	.12	.96	7.56	PCD1915TR-ND	10,000	41.00/M	ELJ-RF27NGFB
33nH	±2%	8	—	100	1800	1.40	170	PCD1916CT-ND	.12	.96	7.56	PCD1916TR-ND	10,000	41.00/M	ELJ-RF33NGFB
39nH	±2%	8	—	100	1800	1.70	150	PCD1917CT-ND	.12	.96	7.56	PCD1917TR-ND	10,000	41.00/M	ELJ-RF39NGFB
47nH	±2%	8	—	100	1800	2.10	140	PCD1918CT-ND	.12	.96	7.56	PCD1918TR-ND	10,000	41.00/M	ELJ-RF47NGFB
56nH	±2%	8	—	100	1500	2.50	130	PCD1919CT-ND	.12	.96	7.56	PCD1919TR-ND	10,000	41.00/M	ELJ-RF56NGFB
68nH	±2%	8	—	100	1500	4.50	120	PCD1920CT-ND	.12	.96	7.56	PCD1920TR-ND	10,000	41.00/M	ELJ-RF68NGFB
82nH	±2%	8	—	100	1400	4.50	110	PCD1921CT-ND	.12	.96	7.56	PCD1921TR-ND	10,000	41.00/M	ELJ-RF82NGFB
100nH	±2%	8	—	100	1200	5.50	90	PCD1922CT-ND	.12	.96	7.56	PCD1922TR-ND	10,000	41.00/M	ELJ-RFR10GFB
Fig. 1, 0402 (1005) — Type RF (5% Tolerance)															
1.0nH	±0.3nH	8	21	100	6000	0.05	400	PCD1264CT-ND	.11	.93	7.29	—	—	—	ELJ-RF1N0DF
1.2nH	±0.3nH	8	21	100	6000	0.06	400	PCD1265CT-ND	.11	.93	7.29	—	—	—	ELJ-RF1N2DF
1.5nH	±0.3nH	8	21	100	6000	0.07	400	PCD1266CT-ND	.11	.93	7.29	PCD1266TR-ND	10,000	40.00/M	ELJ-RF1N5DF
1.8nH	±0.3nH	8	21	100	6000	0.08	400	PCD1267CT-ND	.11	.93	7.29	—	—	—	ELJ-RF1N8DF
2.2nH	±0.3nH	8	21	100	6000	0.09	400	PCD1268CT-ND	.11	.93	7.29	PCD1268TR-ND	10,000	40.00/M	ELJ-RF2N2DF
2.7nH	±0.3nH	8	21	100	5500	0.10	400	PCD1269CT-ND	.11	.93	7.29	—	—	—	ELJ-RF2N7DF
3.3nH	±0.3nH	7	21	100	5500	0.12	400	PCD1270CT-ND	.11	.93	7.29	PCD1270TR-ND	10,000	40.00/M	ELJ-RF3N3DF
3.9nH	±0.3nH	7	20	100	5200	0.15	360	PCD1271CT-ND	.11	.93	7.29	PCD1271TR-ND	10,000	40.00/M	ELJ-RF3N9DF
4.7nH	±0.3nH	7	20	100	4800	0.17	360	PCD1272CT-ND	.11	.93	7.29	PCD1272TR-ND	10,000	40.00/M	ELJ-RF4N7DF
5.6nH	±0.3nH	7	20	100	4600	0.19	340	PCD1273CT-ND	.11	.93	7.29	PCD1273TR-ND	10,000	40.00/M	ELJ-RF5N6DF
6.8nH	5%	7	19	100	4000	0.30	320	PCD1274CT-ND	.11	.93	7.29	PCD1274TR-ND	10,000	40.00/M	ELJ-RF6N8JF
8.2nH	5%	7	19	100	3500	0.35	320	PCD1275CT-ND	.11	.93	7.29	PCD1275TR-ND	10,000	40.00/M	ELJ-RF8N2JF
12.0nH	5%	7	19	100	2800	0.45	320	PCD1277CT-ND	.11	.93	7.29	—	—	—	ELJ-RF12NJF
18.0nH	5%	7	19	100	2200	0.70	240	PCD1279CT-ND	.11	.93	7.29	—	—	—	ELJ-RF18NJF
22.0nH	5%	7	19	100	2000	0.80	200	PCD1280CT-ND	.11	.93	7.29	PCD1280TR-ND	10,000	40.00/M	ELJ-RF22NJF
27.0nH	5%	7	19	100	1800	1.20	200	PCD1281CT-ND	.11	.93	7.29	—	—	—	ELJ-RF27NJF

(Continued)

Inductance	Tolerance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
									1	10	100		Qty.	Pricing	
33.0nH	5%	7	18	100	1800	1.40	170	PCD1282CT-ND	.11	.93	7.29	PCD1282TR-ND	10,000	40.00/M	ELJ-RF33NJF
39.0nH	5%	7	18	100	1800	1.70	150	PCD1283CT-ND	.11	.93	7.29	PCD1283TR-ND	10,000	40.00/M	ELJ-RF39NJF
47.0nH	5%	7	—	100	1800	2.10	140	PCD1326CT-ND	.11	.93	7.29	—	—	—	ELJ-RF47NJF
56.0nH	5%	7	—	100	1500	2.50	130	PCD1327CT-ND	.11	.93	7.29	—	—	—	ELJ-RF56NJF
68.0nH	5%	7	—	100	1500	4.00	120	PCD1328CT-ND	.11	.93	7.29	PCD1328TR-ND	10,000	40.00/M	ELJ-RF68NJF
82.0nH	5%	7	—	100	1400	4.50	110	PCD1329CT-ND	.11	.93	7.29	PCD1329TR-ND	10,000	40.00/M	ELJ-RF82NJF
Fig. 1, 0402 (1005) — Type RF (5% Tolerance) — RoHS Compliant															
1.0nH	±0.3nH	8	—	100	6000	0.05	400	PCD1923CT-ND	.08	.68	5.36	PCD1923TR-ND	10,000	29.00/M	ELJ-RF1N0DFB
1.2nH	±0.3nH	8	—	100	6000	0.06	400	PCD1924CT-ND	.08	.68	5.36	PCD1924TR-ND	10,000	29.00/M	ELJ-RF1N2DFB
1.5nH	±0.3nH	8	—	100	6000	0.07	400	PCD1925CT-ND	.08	.68	5.36	PCD1925TR-ND	10,000	29.00/M	ELJ-RF1N5DFB
1.8nH	±0.3nH	8	—	100	6000	0.08	400	PCD1926CT-ND	.08	.68	5.36	PCD1926TR-ND	10,000	29.00/M	ELJ-RF1N8DFB
2.2nH	±0.3nH	8	—	100	6000	0.09	400	PCD1927CT-ND	.08	.68	5.36	PCD1927TR-ND	10,000	29.00/M	ELJ-RF2N2DFB
2.7nH	±0.3nH	8	—	100	5500	0.10	400	PCD1928CT-ND	.08	.68	5.36	PCD1928TR-ND	10,000	29.00/M	ELJ-RF2N7DFB
3.3nH	±0.3nH	8	—	100	5500	0.12	400	PCD1929CT-ND	.08	.68	5.36	PCD1929TR-ND	10,000	29.00/M	ELJ-RF3N3DFB
3.9nH	±0.3nH	8	—	100	5200	0.15	360	PCD1930CT-ND	.08	.68	5.36	PCD1930TR-ND	10,000	29.00/M	ELJ-RF3N9DFB
4.7nH	±0.3nH	8	—	100	4800	0.17	360	PCD1931CT-ND	.08	.68	5.36	PCD1931TR-ND	10,000	29.00/M	ELJ-RF4N7DFB
5.6nH	±0.3nH	8	—	100	4600	0.19	340	PCD1932CT-ND	.08	.68	5.36	PCD1932TR-ND	10,000	29.00/M	ELJ-RF5N6DFB
6.8nH	±5%	8	—	100	4000	0.30	320	PCD1933CT-ND	.08	.68	5.36	PCD1933TR-ND	10,000	29.00/M	ELJ-RF6N8JFB
8.2nH	±5%	8	—	100	3500	0.35	320	PCD1934CT-ND	.08	.68	5.36	PCD1934TR-ND	10,000	29.00/M	ELJ-RF8N2JFB
10nH	±5%	8	—	100	2800	0.41	320	PCD1935CT-ND	.08	.68	5.36	PCD1935TR-ND	10,000	29.00/M	ELJ-RF10NJFB
12nH	±5%	8	—	100	2800	0.45	320	PCD1936CT-ND	.08	.68	5.36	PCD1936TR-ND	10,000	29.00/M	ELJ-RF12NJFB
15nH	±5%	8	—	100	2500	0.60	240	PCD1937CT-ND	.08	.68	5.36	PCD1937TR-ND	10,000	29.00/M	ELJ-RF15NJFB
18nH	±5%	8	—	100	2200	0.70	240	PCD1938CT-ND	.08	.68	5.36	PCD1938TR-ND	10,000	29.00/M	ELJ-RF18NJFB
22nH	±5%	8	—	100	2000	0.80	200	PCD1939CT-ND	.08	.68	5.36	PCD1939TR-ND	10,000	29.00/M	ELJ-RF22NJFB
27nH	±5%	8	—	100	1800	1.20	200	PCD1940CT-ND	.08	.68	5.36	PCD1940TR-ND	10,000	29.00/M	ELJ-RF27NJFB
33nH	±5%	8	—	100	1800	1.40	170	PCD1941CT-ND	.08	.68	5.36	PCD1941TR-ND	10,000	29.00/M	ELJ-RF33NJFB
39nH	±5%	8	—	100	1800	1.70	150	PCD1942CT-ND	.08	.68	5.36	PCD1942TR-ND	10,000	29.00/M	ELJ-RF39NJFB
47nH	±5%	8	—	100	1800	2.10	140	PCD1943CT-ND	.08	.68	5.36	PCD1943TR-ND	10,000	29.00/M	ELJ-RF47NJFB
56nH	±5%	8	—	100	1500	2.50	130	PCD1944CT-ND	.08	.68	5.36	PCD1944TR-ND	10,000	29.00/M	ELJ-RF56NJFB
68nH	±5%	8	—	100	1500	4.50	120	PCD1945CT-ND	.08	.68	5.36	PCD1945TR-ND	10,000	29.00/M	ELJ-RF68NJFB
82nH	±5%	8	—	100	1400	4.50	110	PCD1946CT-ND	.08	.68	5.36	PCD1946TR-ND	10,000	29.00/M	ELJ-RF82NJFB
100nH	±5%	8	—	100	1200	5.50	90	PCD1947CT-ND	.08	.68	5.36	PCD1947TR-ND	10,000	29.00/M	ELJ-RFR10JFB
Fig. 1, 0402 (1005) — Type PF (5% Tolerance)															
2.2nH	±0.3nH	7	—	100	5300	0.04	1900	PCD1539CT-ND	.35	2.91	22.83	PCD1539TR-ND	10,000	124.50/M	ELJ-PF2N2DF
2.7nH	±0.3nH	7	—	100	5300	0.05	1800	PCD1540CT-ND	.35	2.91	22.83	PCD1540TR-ND	10,000	124.50/M	ELJ-PF2N7DF
3.3nH	±0.3nH	7	—	100	5000	0.07	1500	PCD1541CT-ND	.35	2.91	22.83	PCD1541TR-ND	10,000	124.50/M	ELJ-PF3N3DF
3.9nH	±0.3nH	7	—	100	4800	0.08	1400	PCD1542CT-ND	.35	2.91	22.83	PCD1542TR-ND	10,000	124.50/M	ELJ-PF3N9DF
4.7nH	±0.3nH	7	—	100	4600	0.10	1300	PCD1543CT-ND	.35	2.91	22.83	PCD1543TR-ND	10,000	124.50/M	ELJ-PF4N7DF
5.6nH	±0.3nH	7	—	100	4200	0.12	1200	PCD1544CT-ND	.35	2.91	22.83	PCD1544TR-ND	10,000	124.50/M	ELJ-PF5N6DF
6.8nH	5%	7	—	100	4000	0.16	1100	PCD1545CT-ND	.35	2.91	22.83	PCD1545TR-ND	10,000	124.50/M	ELJ-PF6N8JF
8.2nH	5%	7	—	100	3700	0.21	900	PCD1546CT-ND	.35	2.91	22.83	—	—	—	ELJ-PF8N2JF
10.0nH	5%	7	—	100	3200	0.26	750	PCD1547CT-ND	.35	2.91	22.83	PCD1547TR-ND	10,000	124.50/M	ELJ-PF10NJF
Fig. 1, 0402 (1005) — Type PF (5% Tolerance) — RoHS Compliant															
2.2nH	±0.3nH	7	—	100	5300	0.040	1900	PCD1889CT-ND	.17	1.37	10.78	PCD1889TR-ND	10,000	59.00/M	ELJ-PF2N2DFB
2.7nH	±0.3nH	7	—	100	5300	0.050	1800	PCD1890CT-ND	.17	1.37	10.78	PCD1890TR-ND	10,000	59.00/M	ELJ-PF2N7DFB
3.3nH	±0.3nH	7	—	100	5000	0.070	1500	PCD1891CT-ND	.17	1.37	10.78	PCD1891TR-ND	10,000	59.00/M	ELJ-PF3N3DFB
3.9nH	±0.3nH	7	—	100	4800	0.080	1400	PCD1892CT-ND	.17	1.37	10.78	PCD1892TR-ND	10,000	59.00/M	ELJ-PF3N9DFB
4.7nH	±0.3nH	7	—	100	4600	0.100	1300	PCD1893CT-ND	.17	1.37	10.78	PCD1893TR-ND	10,000	59.00/M	ELJ-PF4N7DFB
5.6nH	±0.3nH	7	—	100	4200	0.120	1200	PCD1894CT-ND	.17	1.37	10.78	PCD1894TR-ND	10,000	59.00/M	ELJ-PF5N6DFB
6.8nH	±5%	7	—	100	4000	0.160	1100	PCD1895CT-ND	.17	1.37	10.78	PCD1895TR-ND	10,000	59.00/M	ELJ-PF6N8JFB
8.2nH	±5%	7	—	100	3700	0.210	900	PCD1896CT-ND	.17	1.37	10.78	PCD1896TR-ND	10,000	59.00/M	ELJ-PF8N2JFB
10nH	±5%	7	—	100	3200	0.260	750	PCD1897CT-ND	.17	1.37	10.78	PCD1897TR-ND	10,000	59.00/M	ELJ-PF10NJFB
Fig. 1, 0402 (1005) — Type QF (5% Tolerance) — RoHS Compliant															
1.0nH	±0.3nH	10	41	100	6000	0.05	400	PCD1846CT-ND	.26	2.17	17.05	PCD1846TR-ND	10,000	93.00/M	ELJ-QF1N0DF
1.2nH	±0.3nH	10	41	100	6000	0.06	400	PCD1847CT-ND	.26	2.17	17.05	PCD1847TR-ND	10,000	93.00/M	ELJ-QF1N2DF
1.5nH	±0.3nH	10	40	100	6000	0.07	400	PCD1848CT-ND	.26	2.17	17.05	PCD1848TR-ND	10,000	93.00/M	ELJ-QF1N5DF
1.8nH	±0.3nH	10	40	100	6000	0.08	400	PCD1849CT-ND	.26	2.17	17.05	PCD1849TR-ND	10,000	93.00/M	ELJ-QF1N8DF
2.2nH	±0.3nH	10	40	100	6000	0.09	400	PCD1850CT-ND	.26	2.17	17.05	PCD1850TR-ND	10,000	93.00/M	ELJ-QF2N2DF
2.7nH	±0.3nH	10	40	100	5500	0.10	400	PCD1851CT-ND	.26	2.17	17.05	PCD1851TR-ND	10,000	93.00/M	ELJ-QF2N7DF
3.3nH	±0.3nH	10	39	100	5500	0.12	400	PCD1852CT-ND	.26	2.17	17.05	PCD1852TR-ND	10,000	93.00/M	ELJ-QF3N3DF
3.9nH	±0.3nH	10	39	100	5200	0.15	360	PCD1853CT-ND	.26	2.17	17.05	PCD1853TR-ND	10,000	93.00/M	ELJ-QF3N9DF
4.7nH	±0.3nH	10	39	100	4800	0.17	360	PCD1854CT-ND	.26	2.17	17.05	PCD1854TR-ND	10,000	93.00/M	ELJ-QF4N7DF
5.6nH	±0.3nH	10	39	100	4600	0.19	340	PCD1855CT-ND	.26	2.17	17.05	PCD1855TR-ND	10,000	93.00/M	ELJ-QF5N6DF
6.8nH	5%	10	39	100	4000	0.30	320	PCD1856CT-ND	.26	2.17	17.05	PCD1856TR-ND	10,000	93.00/M	ELJ-QF6N8JF
8.2nH	5%	10	39	100	3500	0.35	320	PCD1857CT-ND	.26	2.17	17.05	PCD1857TR-ND	10,000	93.00/M	ELJ-QF8N2JF
10nH	5%	10	39	100	2800	0.41	320	PCD1858CT-ND	.26	2.17	17.05	PCD1858TR-ND	10,000	93.00/M	ELJ-QF10NJF
12nH	5%	10	38	100	2800	0.45	320	PCD1859CT-ND	.26	2.17	17.05	PCD1859TR-ND	10,000	93.00/M	ELJ-QF12NJF
15nH	5%	10	36	100	2500	0.60	240	PCD1860CT-ND	.26	2.17	17.05	PCD1860TR-ND	10,000	93.00/M	ELJ-QF15NJF
18nH	5%	10	36	100	2200	0.70	240	PCD1861CT-ND	.26	2.17	17.05	PCD1861TR-ND	10,000	93.00/M	ELJ-QF18NJF
22nH	5%	10	36	100	2200	0.80	200	PCD1862CT-ND	.26	2.17	17.05	PCD1862TR-ND	10,000	93.00/M	ELJ-QF22NJF
27nH	5%	10	36	100	1800	1.20	200	PCD1863CT-ND	.26	2.17	17.05	PCD1863TR-ND	10,000	93.00/M	ELJ-QF27NJF
33nH	5%	10	35	100	1800	1.40	170	PCD1864CT-ND	.26	2.17	17.05	PCD1864TR-ND	10,000	93.00/M	ELJ-QF33NJF
39nH	5%	10	35	100	1800	1.70	150	PCD1865CT-ND	.26	2.17	17.05	PCD1865TR-ND	10,000	93.00/M	ELJ-QF39NJF
Fig. 2, 0603 (1608) — Type RE (2% Tolerance)															
1.8nH	±0.2nH	8	45	100	6000	0.08	500	PCD1285CT-ND	.15	1.23	9.63	—	—	—	ELJ-RE1N8ZF2
2.2nH	±0.2nH	8	35	100	6000	0.09	500	PCD1286CT-ND	.15	1.23	9.63	—	—	—	ELJ-RE2N2ZF2
2.7nH	±0.2nH	8	35	100	6000	0.10	500	PCD1287CT-ND	.15	1.23	9.63	—	—	—	ELJ-RE2N7ZF2
3.3nH	±0.2nH	9	35	100	5500	0.12	500	PCD1288CT-ND	.15	1.23	9.63	PCD1288TR-ND	3,000	52.50/M	ELJ-RE3N3ZF2
6.8nH	±0.2nH	9	36	100	3550	0.20	430	PCD1292CT-ND	.15	1.23	9.63	—	—	—	ELJ-RE6N8ZF2
8.2nH	±0.2nH	9	36	100	3500	0.28	400	PCD1293CT-ND	.15	1.23	9.63	—	—	—	ELJ-RE8N2ZF2
68nH	2%	12	35	100	1500	1.3	250	PCD1304CT-ND	.15	1.23	9.63	—	—	—	ELJ-RE68NGF3
82nH	2%	12	33	100	1500	1.5	250	PCD1305CT-ND	.15	1.23	9.63	PCD1305TR-ND	3,000	52.50/M	ELJ-RE82NGF3
Fig. 2, 0603 (1608) — Type RE (2% Tolerance) — RoHS Compliant															
1.0nH	±0.2nH	7	—	100	6000	0.05	500	PCD1990CT-ND	.15	1.23	9.63	PCD1990TR-ND	3,000	53.00/M	ELJ-RE1N0ZFA
1.2nH	±0.2nH	7	—	100	6000	0.06	500	PCD1991CT-ND	.15	1.23	9.63	PCD1991TR-ND	3,000	53.00/M	ELJ-RE1N2ZFA
1.5nH	±0.2nH	8	—	100	6000	0.07	500	PCD1992CT-ND	.15	1.23	9.63	PCD1992TR-ND	3,000	53.00/M	ELJ-RE1N5ZFA
1.8nH	±0.2nH	8	—	100	6000	0.08	500	PCD1993CT-ND	.15	1.23	9.63	PCD1993TR-ND	3,000	53.00/M	ELJ-RE1N8ZFA
2.2nH	±0.2nH	8	—	100	6000	0.09	500	PCD1994CT-ND	.15	1.23	9.63	PCD1994TR-ND	3,000	53.00/M	ELJ-RE2N2ZFA
2.7nH	±0.2nH	8	—	100	6000	0.10	500	PCD1995CT-ND	.15	1.23	9.63	PCD1995TR-ND	3,000	53.00/M	ELJ-RE2N7ZFA
3.3nH	±0.2nH	9	—	100	5500	0.12	500	PCD1996CT-ND	.15	1.23	9.63	PCD1996TR-ND	3,000	53.00/M	ELJ-RE3N3ZFA
3.9nH	±0.2nH	9	—	100	5500	0.15	450	PCD1997CT-ND	.15	1.23	9.63	PCD1997TR-ND	3,000	53.00/M	ELJ-RE3N9ZFA
4.7nH	±0.2nH	9	—	100	4800	0.17	450	PCD1998CT-ND	.15	1.23	9.63	PCD1998TR-ND	3,000	53.00/M	ELJ-RE4N7ZFA

(Continued)

Panasonic Surface Mount Inductors *(Cont.)*

Induc-tance	Tol-erance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
									1	10	100		Qty.	Pricing	
5.6nH	±0.2nH	9	—	100	4600	0.18	430	PCD1999CT-ND	.15	1.23	9.63	PCD1999TR-ND	3,000	53.00/M	ELJ-RE5N6ZFA
6.8nH	±0.2nH	9	—	100	3550	0.20	430	PCD2000CT-ND	.15	1.23	9.63	PCD2000TR-ND	3,000	53.00/M	ELJ-RE6N8ZFA
8.2nH	±0.2nH	9	—	100	3550	0.28	400	PCD2001CT-ND	.15	1.23	9.63	PCD2001TR-ND	3,000	53.00/M	ELJ-RE8N2ZFA
10nH	±2%	10	—	100	2800	0.32	400	PCD2002CT-ND	.15	1.23	9.63	PCD2002TR-ND	3,000	53.00/M	ELJ-RE10NGFA
12nH	±2%	10	—	100	2800	0.35	400	PCD2003CT-ND	.15	1.23	9.63	PCD2003TR-ND	3,000	53.00/M	ELJ-RE12NGFA
15nH	±2%	10	—	100	2500	0.41	350	PCD2004CT-ND	.15	1.23	9.63	PCD2004TR-ND	3,000	53.00/M	ELJ-RE15NGFA
18nH	±2%	10	—	100	2300	0.45	350	PCD2005CT-ND	.15	1.23	9.63	PCD2005TR-ND	3,000	53.00/M	ELJ-RE18NGFA
22nH	±2%	10	—	100	2000	0.50	300	PCD2006CT-ND	.15	1.23	9.63	PCD2006TR-ND	3,000	53.00/M	ELJ-RE22NGFA
27nH	±2%	10	—	100	2000	0.55	300	PCD2007CT-ND	.15	1.23	9.63	PCD2007TR-ND	3,000	53.00/M	ELJ-RE27NGFA
33nH	±2%	10	—	100	1800	0.60	300	PCD2008CT-ND	.15	1.23	9.63	PCD2008TR-ND	3,000	53.00/M	ELJ-RE33NGFA
39nH	±2%	11	—	100	1800	0.80	300	PCD2009CT-ND	.15	1.23	9.63	PCD2009TR-ND	3,000	53.00/M	ELJ-RE39NGFA
47nH	±2%	11	—	100	1800	0.95	250	PCD2010CT-ND	.15	1.23	9.63	PCD2010TR-ND	3,000	53.00/M	ELJ-RE47NGFA
56nH	±2%	12	—	100	1800	1.20	250	PCD2011CT-ND	.15	1.23	9.63	PCD2011TR-ND	3,000	53.00/M	ELJ-RE56NGFA
68nH	±2%	12	—	100	1500	1.30	250	PCD2012CT-ND	.15	1.23	9.63	PCD2012TR-ND	3,000	53.00/M	ELJ-RE68NGFA
82nH	±2%	12	—	100	1500	1.50	250	PCD2013CT-ND	.15	1.23	9.63	PCD2013TR-ND	3,000	53.00/M	ELJ-RE82NGFA
100nH	±2%	12	—	100	1300	1.80	200	PCD2014CT-ND	.15	1.23	9.63	PCD2014TR-ND	3,000	53.00/M	ELJ-RER10GFA
120nH	±2%	5	—	25.2	1200	3.00	130	PCD2015CT-ND	.15	1.23	9.63	PCD2015TR-ND	3,000	53.00/M	ELJ-RER12GFA
150nH	±2%	5	—	25.2	1100	4.50	100	PCD2016CT-ND	.15	1.23	9.63	PCD2016TR-ND	3,000	53.00/M	ELJ-RER15GFA
180nH	±2%	4	—	25.2	1000	6.50	80	PCD2017CT-ND	.15	1.23	9.63	PCD2017TR-ND	3,000	53.00/M	ELJ-RER18GFA
220nH	±2%	4	—	25.2	900	7.50	70	PCD2018CT-ND	.15	1.23	9.63	PCD2018TR-ND	3,000	53.00/M	ELJ-RER22GFA
Fig. 2, 0603 (1608) — Type RE (5% Tolerance)															
2.7nH	±0.3nH	8	35	100	6000	0.10	500	PCD1144CT-ND	.11	.93	7.29	—	—	—	ELJ-RE2N7DF2
4.7nH	5%	9	36	100	4800	0.17	450	PCD1147CT-ND	.11	.93	7.29	—	—	—	ELJ-RE4N7JF2
6.8nH	5%	9	36	100	3550	0.20	430	PCD1149CT-ND	.11	.93	7.29	PCD1149TR-ND	3,000	40.00/M	ELJ-RE6N8JF2
10nH	5%	10	37	100	2800	0.32	400	PCD1151CT-ND	.11	.93	7.29	PCD1151TR-ND	3,000	40.00/M	ELJ-RE10NJF2
15nH	5%	10	38	100	2500	0.41	350	PCD1153CT-ND	.11	.93	7.29	—	—	—	ELJ-RE15NJF2
18nH	5%	10	39	100	2300	0.45	350	PCD1154CT-ND	.11	.93	7.29	PCD1154TR-ND	3,000	40.00/M	ELJ-RE18NJF2
33nH	5%	10	40	100	1800	0.60	300	PCD1157CT-ND	.11	.93	7.29	—	—	—	ELJ-RE33NJF2
39nH	5%	11	39	100	1800	0.80	300	PCD1158CT-ND	.11	.93	7.29	—	—	—	ELJ-RE39NJF2
150nH	5%	5	22	25.2	1100	4.50	100	PCD1323CT-ND	.11	.93	7.29	—	—	—	ELJ-RER15JF3
Fig. 2, 0603 (1608) — Type RE (5% Tolerance) — RoHS Compliant															
1.0nH	±0.3nH	7	—	100	6000	0.05	500	PCD1961CT-ND	.11	.93	7.29	PCD1961TR-ND	3,000	40.00/M	ELJ-RE1N0DFA
1.2nH	±0.3nH	7	—	100	6000	0.06	500	PCD1962CT-ND	.11	.93	7.29	PCD1962TR-ND	3,000	40.00/M	ELJ-RE1N2DFA
1.5nH	±0.3nH	8	—	100	6000	0.07	500	PCD1963CT-ND	.11	.93	7.29	PCD1963TR-ND	3,000	40.00/M	ELJ-RE1N5DFA
1.8nH	±0.3nH	8	—	100	6000	0.08	500	PCD1964CT-ND	.11	.93	7.29	PCD1964TR-ND	3,000	40.00/M	ELJ-RE1N8DFA
2.2nH	±0.3nH	8	—	100	6000	0.09	500	PCD1965CT-ND	.11	.93	7.29	PCD1965TR-ND	3,000	40.00/M	ELJ-RE2N2DFA
2.7nH	±0.3nH	8	—	100	6000	0.10	500	PCD1966CT-ND	.11	.93	7.29	PCD1966TR-ND	3,000	40.00/M	ELJ-RE2N7DFA
3.3nH	±0.3nH	9	—	100	5500	0.12	500	PCD1967CT-ND	.11	.93	7.29	PCD1967TR-ND	3,000	40.00/M	ELJ-RE3N3DFA
3.9nH	±5%	9	—	100	5500	0.15	450	PCD1968CT-ND	.11	.93	7.29	PCD1968TR-ND	3,000	40.00/M	ELJ-RE3N9JFA
4.7nH	±5%	9	—	100	4800	0.17	450	PCD1969CT-ND	.11	.93	7.29	PCD1969TR-ND	3,000	40.00/M	ELJ-RE4N7JFA
5.6nH	±5%	9	—	100	4600	0.18	430	PCD1970CT-ND	.11	.93	7.29	PCD1970TR-ND	3,000	40.00/M	ELJ-RE5N6JFA
6.8nH	±5%	9	—	100	3550	0.20	430	PCD1971CT-ND	.11	.93	7.29	PCD1971TR-ND	3,000	40.00/M	ELJ-RE6N8JFA
8.2nH	±5%	9	—	100	3550	0.28	400	PCD1972CT-ND	.11	.93	7.29	PCD1972TR-ND	3,000	40.00/M	ELJ-RE8N2JFA
10nH	±5%	10	—	100	2800	0.32	400	PCD1973CT-ND	.11	.93	7.29	PCD1973TR-ND	3,000	40.00/M	ELJ-RE10NJFA
12nH	±5%	10	—	100	2800	0.35	400	PCD1974CT-ND	.11	.93	7.29	PCD1974TR-ND	3,000	40.00/M	ELJ-RE12NJFA
15nH	±5%	10	—	100	2500	0.41	350	PCD1975CT-ND	.11	.93	7.29	PCD1975TR-ND	3,000	40.00/M	ELJ-RE15NJFA
18nH	±5%	10	—	100	2300	0.45	350	PCD1976CT-ND	.11	.93	7.29	PCD1976TR-ND	3,000	40.00/M	ELJ-RE18NJFA
22nH	±5%	10	—	100	2000	0.50	300	PCD1977CT-ND	.11	.93	7.29	PCD1977TR-ND	3,000	40.00/M	ELJ-RE22NJFA
27nH	±5%	10	—	100	2000	0.55	300	PCD1978CT-ND	.11	.93	7.29	PCD1978TR-ND	3,000	40.00/M	ELJ-RE27NJFA
33nH	±5%	10	—	100	1800	0.60	300	PCD1979CT-ND	.11	.93	7.29	PCD1979TR-ND	3,000	40.00/M	ELJ-RE33NJFA
39nH	±5%	11	—	100	1800	0.80	300	PCD1980CT-ND	.11	.93	7.29	PCD1980TR-ND	3,000	40.00/M	ELJ-RE39NJFA
47nH	±5%	11	—	100	1800	0.95	250	PCD1981CT-ND	.11	.93	7.29	PCD1981TR-ND	3,000	40.00/M	ELJ-RE47NJFA
56nH	±5%	12	—	100	1800	1.20	250	PCD1982CT-ND	.11	.93	7.29	PCD1982TR-ND	3,000	40.00/M	ELJ-RE56NJFA
68nH	±5%	12	—	100	1500	1.30	250	PCD1983CT-ND	.11	.93	7.29	PCD1983TR-ND	3,000	40.00/M	ELJ-RE68NJFA
82nH	±5%	12	—	100	1500	1.50	250	PCD1984CT-ND	.11	.93	7.29	PCD1984TR-ND	3,000	40.00/M	ELJ-RE82NJFA
100nH	±5%	12	—	100	1300	1.80	200	PCD1985CT-ND	.11	.93	7.29	PCD1985TR-ND	3,000	40.00/M	ELJ-RER10JFA
120nH	±5%	5	—	25.2	1200	3.00	130	PCD1986CT-ND	.11	.93	7.29	PCD1986TR-ND	3,000	40.00/M	ELJ-RER12JFA
150nH	±5%	5	—	25.2	1100	4.50	100	PCD1987CT-ND	.11	.93	7.29	PCD1987TR-ND	3,000	40.00/M	ELJ-RER15JFA
180nH	±5%	4	—	25.2	1000	6.50	80	PCD1988CT-ND	.11	.93	7.29	PCD1988TR-ND	3,000	40.00/M	ELJ-RER18JFA
220nH	±5%	4	—	25.2	900	7.50	70	PCD1989CT-ND	.11	.93	7.29	PCD1989TR-ND	3,000	40.00/M	ELJ-RER22JFA
Fig. 2, 0603 (1608) — Type PE (10% Tolerance)															
2.2nH	10%	8	—	100	6000	0.030	2.1	PCD1404CT-ND	.35	2.91	22.83	PCD1404TR-ND	3,000	125.00/M	ELJ-PE2N2KF
2.7nH	10%	8	—	100	5500	0.030	2.1	PCD1405CT-ND	.35	2.91	22.83	—	—	—	ELJ-PE2N7KF
3.3nH	10%	8	—	100	5500	0.040	2.1	PCD1406CT-ND	.35	2.91	22.83	PCD1406TR-ND	3,000	125.00/M	ELJ-PE3N3KF
3.9nH	10%	9	—	100	5200	0.040	2.1	PCD1407CT-ND	.35	2.91	22.83	PCD1407TR-ND	3,000	125.00/M	ELJ-PE3N9KF
4.7nH	10%	9	—	100	4800	0.050	2.1	PCD1408CT-ND	.35	2.91	22.83	PCD1408TR-ND	3,000	125.00/M	ELJ-PE4N7KF
5.6nH	10%	9	—	100	4600	0.055	2.1	PCD1409CT-ND	.35	2.91	22.83	—	—	—	ELJ-PE5N6KF
6.8nH	10%	9	—	100	4000	0.055	1.9	PCD1410CT-ND	.35	2.91	22.83	—	—	—	ELJ-PE6N8KF
8.2nH	10%	9	—	100	3500	0.060	1.7	PCD1411CT-ND	.35	2.91	22.83	—	—	—	ELJ-PE8N2KF
10nH	10%	9	—	100	2800	0.065	1.4	PCD1412CT-ND	.35	2.91	22.83	PCD1412TR-ND	3,000	125.00/M	ELJ-PE10NKF
12nH	10%	9	—	100	2500	0.080	1.3	PCD1413CT-ND	.35	2.91	22.83	PCD1413TR-ND	3,000	125.00/M	ELJ-PE12NKF
15nH	10%	9	—	100	2200	0.100	0.9	PCD1414CT-ND	.35	2.91	22.83	PCD1414TR-ND	3,000	125.00/M	ELJ-PE15NKF
18nH	10%	9	—	100	2000	0.120	0.8	PCD1415CT-ND	.35	2.91	22.83	PCD1415TR-ND	3,000	125.00/M	ELJ-PE18NKF
22nH	10%	9	—	100	1800	0.150	0.7	PCD1416CT-ND	.35	2.91	22.83	PCD1416TR-ND	3,000	125.00/M	ELJ-PE22NKF
Fig. 2, 0603 (1608) — Type PE (10% Tolerance) — RoHS Compliant															
2.2nH	±10%	8	—	100	—	30	2100	PCD1948CT-ND	.35	2.91	22.83	PCD1948TR-ND	3,000	125.00/M	ELJ-PE2N2KFA
2.7nH	±10%	8	—	100	—	30	2100	PCD1949CT-ND	.35	2.91	22.83	PCD1949TR-ND	3,000	125.00/M	ELJ-PE2N7KFA
3.3nH	±10%	8	—	100	—	40	2100	PCD1950CT-ND	.35	2.91	22.83	PCD1950TR-ND	3,000	125.00/M	ELJ-PE3N3KFA
3.9nH	±10%	9	—	100	—	40	2100	PCD1951CT-ND	.35	2.91	22.83	PCD1951TR-ND	3,000	125.00/M	ELJ-PE3N9KFA
4.7nH	±10%	9	—	100	—	50	2100	PCD1952CT-ND	.35	2.91	22.83	PCD1952TR-ND	3,000	125.00/M	ELJ-PE4N7KFA
5.6nH	±10%	9	—	100	—	55	2100	PCD1953CT-ND	.35	2.91	22.83	PCD1953TR-ND	3,000	125.00/M	ELJ-PE5N6KFA
6.8nH	±10%	9	—	100	—	55	1900	PCD1954CT-ND	.35	2.91	22.83	PCD1954TR-ND	3,000	125.00/M	ELJ-PE6N8KFA
8.2nH	±10%	9	—	100	—	60	1700	PCD1955CT-ND	.35	2.91	22.83	PCD1955TR-ND	3,000	125.00/M	ELJ-PE8N2KFA
10nH	±10%	9	—	100	—	65	1400	PCD1956CT-ND	.35	2.91	22.83	PCD1956TR-ND	3,000	125.00/M	ELJ-PE10NKFA
12nH	±10%	9	—	100	—	80	1300	PCD1957CT-ND	.35	2.91	22.83	PCD1957TR-ND	3,000	125.00/M	ELJ-PE12NKFA
15nH	±10%	9	—	100	—	100	900	PCD1958CT-ND	.35	2.91	22.83	PCD1958TR-ND	3,000	125.00/M	ELJ-PE15NKFA
18nH	±10%	9	—	100	—	120	800	PCD1959CT-ND	.35	2.91	22.83	PCD1959TR-ND	3,000	125.00/M	ELJ-PE18NKFA
22nH	±10%	9	—	100	—	150	700	PCD1960CT-ND	.35	2.91	22.83	PCD1960TR-ND	3,000	125.00/M	ELJ-PE22NKFA
Fig. 3, 0805 (2012) — Type ND (10% Tolerance) — RoHS Compliant															
10nH	10%	10	48	100	3300	0.14	540	PCD1160CT-ND	.35	2.85	22.36	PCD1160TR-ND	3,000	122.00/M	ELJ-ND10NKF
12nH	10%	10	53	100	3300	0.18	535	PCD1161CT-ND	.35	2.85	22.36	PCD1161TR-ND	3,000	122.00/M	ELJ-ND12NKF

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Induc-tance	Tol-erance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
									1	10	100		Qty.	Pricing	
15nH	10%	12	55	100	3000	0.18	520	PCD1162CT-ND	.35	2.85	22.36	PCD1162TR-ND	3,000	122.00/M	ELJ-ND15NKF
18nH	10%	12	55	100	3000	0.22	480	PCD1163CT-ND	.35	2.85	22.36	PCD1163TR-ND	3,000	122.00/M	ELJ-ND18NKF
22nH	10%	15	55	100	2600	0.22	465	PCD1164CT-ND	.35	2.85	22.36	PCD1164TR-ND	3,000	122.00/M	ELJ-ND22NKF
27nH	10%	15	57	100	2500	0.26	455	PCD1165CT-ND	.35	2.85	22.36	PCD1165TR-ND	3,000	122.00/M	ELJ-ND27NKF
33nH	10%	15	58	100	2050	0.30	395	PCD1166CT-ND	.35	2.85	22.36	PCD1166TR-ND	3,000	122.00/M	ELJ-ND33NKF
Fig. 3, 0805 (2012) — Type ND (5% Tolerance)															
330nH	5%	10	—	25.2	200	1.66	160	PCD1178CT-ND	.35	2.85	22.36	PCD1178TR-ND	3,000	122.00/M	ELJ-NDR33JF
390nH	5%	10	—	25.2	150	1.82	150	PCD1179CT-ND	.35	2.85	22.36	PCD1179TR-ND	3,000	122.00/M	ELJ-NDR39JF
Fig. 3, 0805 (2012) — Type ND (5% Tolerance) — RoHS Compliant															
12nH	5%	10	53	100	3300	0.18	535	PCD1185CT-ND	.35	2.85	22.36	PCD1185TR-ND	3,000	122.00/M	ELJ-ND12NJF
39nH	5%	15	55	100	2000	0.31	390	PCD1167CT-ND	.35	2.85	22.36	PCD1167TR-ND	3,000	122.00/M	ELJ-ND39NJF
47nH	5%	15	50	100	1650	0.35	385	PCD1168CT-ND	.35	2.85	22.36	PCD1168TR-ND	3,000	122.00/M	ELJ-ND47NJF
56nH	5%	15	45	100	1550	0.39	360	PCD1169CT-ND	.35	2.85	22.36	PCD1169TR-ND	3,000	122.00/M	ELJ-ND56NJF
68nH	5%	15	44	100	1450	0.44	340	PCD1170CT-ND	.35	2.85	22.36	PCD1170TR-ND	3,000	122.00/M	ELJ-ND68NJF
82nH	5%	15	40	100	1100	0.48	330	PCD1171CT-ND	.35	2.85	22.36	PCD1171TR-ND	3,000	122.00/M	ELJ-ND82NJF
100nH	5%	8	35	25.2	800	0.66	285	PCD1172CT-ND	.35	2.85	22.36	PCD1172TR-ND	3,000	122.00/M	ELJ-NDR10JF
120nH	5%	8	—	25.2	600	0.76	275	PCD1173CT-ND	.35	2.85	22.36	PCD1173TR-ND	3,000	122.00/M	ELJ-NDR12JF
150nH	5%	10	—	25.2	600	1.13	230	PCD1174CT-ND	.35	2.85	22.36	PCD1174TR-ND	3,000	122.00/M	ELJ-NDR15JF
180nH	5%	10	—	25.2	600	1.24	195	PCD1175CT-ND	.35	2.85	22.36	PCD1175TR-ND	3,000	122.00/M	ELJ-NDR18JF
220nH	5%	10	—	25.2	500	1.41	170	PCD1176CT-ND	.35	2.85	22.36	PCD1176TR-ND	3,000	122.00/M	ELJ-NDR22JF
270nH	5%	10	—	25.2	300	1.50	165	PCD1177CT-ND	.35	2.85	22.36	PCD1177TR-ND	3,000	122.00/M	ELJ-NDR27JF
470nH	5%	10	—	25.2	150	1.97	145	PCD1180CT-ND	.35	2.85	22.36	PCD1180TR-ND	3,000	122.00/M	ELJ-NDR47JF
560nH	5%	10	—	25.2	100	2.07	140	PCD1181CT-ND	.35	2.85	22.36	PCD1181TR-ND	3,000	122.00/M	ELJ-NDR56JF
680nH	5%	10	—	25.2	100	2.32	130	PCD1182CT-ND	.35	2.85	22.36	PCD1182TR-ND	3,000	122.00/M	ELJ-NDR68JF
820nH	5%	10	—	25.2	80	2.60	125	PCD1183CT-ND	.35	2.85	22.36	PCD1183TR-ND	3,000	122.00/M	ELJ-NDR82JF
1000nH	5%	8	—	7.96	80	2.98	120	PCD1184CT-ND	.35	2.85	22.36	PCD1184TR-ND	3,000	122.00/M	ELJ-ND1R0JF
Fig. 4, 1008 (2520) — Type NC (10% Tolerance)															
15nH	10%	10	—	100	1800	0.38	255	PCD1039CT-ND	.27	2.26	17.79	PCD1039TR-ND	2,000	97.00/M	ELJ-NC15NKF
18nH	10%	10	—	100	1550	0.40	250	PCD1040CT-ND	.27	2.26	17.79	PCD1040TR-ND	2,000	97.00/M	ELJ-NC18NKF
33nH	10%	15	—	100	1000	0.51	220	PCD1043CT-ND	.27	2.26	17.79	PCD1043TR-ND	2,000	97.00/M	ELJ-NC33NKF
39nH	10%	15	—	100	890	0.55	215	PCD1044CT-ND	.27	2.26	17.79	PCD1044TR-ND	2,000	97.00/M	ELJ-NC39NKF
47nH	10%	15	—	100	770	0.59	205	PCD1045CT-ND	.27	2.26	17.79	PCD1045TR-ND	2,000	97.00/M	ELJ-NC47NKF
56nH	10%	15	—	100	670	0.63	200	PCD1046CT-ND	.27	2.26	17.79	PCD1046TR-ND	2,000	97.00/M	ELJ-NC56NKF
68nH	10%	15	—	100	590	0.68	190	PCD1047CT-ND	.27	2.26	17.79	PCD1047TR-ND	2,000	97.00/M	ELJ-NC68NKF
82nH	10%	15	—	100	520	0.73	185	PCD1048CT-ND	.27	2.26	17.79	PCD1048TR-ND	2,000	97.00/M	ELJ-NC82NKF
Fig. 4, 1008 (2520) — Type NC (10% Tolerance) — RoHS Compliant															
10nH	10%	10	—	100	2500	0.32	280	PCD1037CT-ND	.27	2.26	17.79	PCD1037TR-ND	2,000	97.00/M	ELJ-NC10NKF
12nH	10%	10	—	100	2200	0.34	270	PCD1038CT-ND	.27	2.26	17.79	PCD1038TR-ND	2,000	97.00/M	ELJ-NC12NKF
22nH	10%	15	—	100	1350	0.43	240	PCD1041CT-ND	.27	2.26	17.79	PCD1041TR-ND	2,000	97.00/M	ELJ-NC22NKF
27nH	10%	15	—	100	1150	0.47	230	PCD1042CT-ND	.27	2.26	17.79	PCD1042TR-ND	2,000	97.00/M	ELJ-NC27NKF
100nH	10%	10	—	25.2	460	0.80	175	PCD1049CT-ND	.27	2.26	17.79	PCD1049TR-ND	2,000	97.00/M	ELJ-NCR10KF
120nH	10%	10	—	25.2	400	0.87	170	PCD1050CT-ND	.27	2.26	17.79	PCD1050TR-ND	2,000	97.00/M	ELJ-NCR12KF
150nH	10%	10	—	25.2	340	0.98	160	PCD1051CT-ND	.27	2.26	17.79	PCD1051TR-ND	2,000	97.00/M	ELJ-NCR15KF
180nH	10%	10	—	25.2	300	1.05	155	PCD1052CT-ND	.27	2.26	17.79	PCD1052TR-ND	2,000	97.00/M	ELJ-NCR18KF
Fig. 4, 1008 (2520) — Type NC (5% Tolerance)															
68nH	5%	15	—	100	590	0.68	190	PCD1206CT-ND	.27	2.26	17.79	PCD1206TR-ND	2,000	97.00/M	ELJ-NC68NJF
Fig. 4, 1008 (2520) — Type NC (5% Tolerance) — RoHS Compliant															
33nH	5%	15	—	100	1000	0.51	220	PCD1202CT-ND	.27	2.26	17.79	PCD1202TR-ND	2,000	97.00/M	ELJ-NC33NJF
39nH	5%	15	—	100	890	0.55	215	PCD1203CT-ND	.27	2.26	17.79	PCD1203TR-ND	2,000	97.00/M	ELJ-NC39NJF
47nH	5%	15	—	100	770	0.59	205	PCD1204CT-ND	.27	2.26	17.79	PCD1204TR-ND	2,000	97.00/M	ELJ-NC47NJF
56nH	5%	15	—	100	670	0.63	200	PCD1205CT-ND	.27	2.26	17.79	PCD1205TR-ND	2,000	97.00/M	ELJ-NC56NJF
82nH	5%	15	—	100	520	0.73	185	PCD1207CT-ND	.27	2.26	17.79	PCD1207TR-ND	2,000	97.00/M	ELJ-NC82NJF
100nH	5%	10	—	25.2	460	0.80	175	PCD1208CT-ND	.27	2.26	17.79	PCD1208TR-ND	2,000	97.00/M	ELJ-NCR10JF
120nH	5%	10	—	25.2	400	0.87	170	PCD1209CT-ND	.27	2.26	17.79	PCD1209TR-ND	2,000	97.00/M	ELJ-NCR12JF
150nH	5%	10	—	25.2	340	0.98	160	PCD1210CT-ND	.27	2.26	17.79	PCD1210TR-ND	2,000	97.00/M	ELJ-NCR15JF
180nH	5%	10	—	25.2	300	1.05	155	PCD1211CT-ND	.27	2.26	17.79	PCD1211TR-ND	2,000	97.00/M	ELJ-NCR18JF
220nH	5%	10	—	25.2	260	1.15	145	PCD1212CT-ND	.27	2.26	17.79	PCD1212TR-ND	2,000	97.00/M	ELJ-NCR22JF
270nH	5%	10	—	25.2	230	1.25	140	PCD1213CT-ND	.27	2.26	17.79	PCD1213TR-ND	2,000	97.00/M	ELJ-NCR27JF
330nH	5%	10	—	25.2	200	1.37	135	PCD1214CT-ND	.27	2.26	17.79	PCD1214TR-ND	2,000	97.00/M	ELJ-NCR33JF
390nH	5%	10	—	25.2	180	1.47	130	PCD1215CT-ND	.27	2.26	17.79	PCD1215TR-ND	2,000	97.00/M	ELJ-NCR39JF
470nH	5%	10	—	25.2	160	1.58	125	PCD1216CT-ND	.27	2.26	17.79	PCD1216TR-ND	2,000	97.00/M	ELJ-NCR47JF
560nH	5%	10	—	25.2	145	1.70	120	PCD1217CT-ND	.27	2.26	17.79	PCD1217TR-ND	2,000	97.00/M	ELJ-NCR56JF
680nH	5%	10	—	25.2	130	1.85	110	PCD1218CT-ND	.27	2.26	17.79	PCD1218TR-ND	2,000	97.00/M	ELJ-NCR68JF
820nH	5%	10	—	25.2	100	2.10	100	PCD1219CT-ND	.27	2.26	17.79	PCD1219TR-ND	2,000	97.00/M	ELJ-NCR82JF
Fig. 4, 1008 (2520) — Type FC (20% Tolerance)															
0.22µH	20%	25	—	25.2	230	0.7	190	PCD1053CT-ND	.27	2.26	17.79	PCD1053TR-ND	2,000	97.00/M	ELJ-FCR22MF
0.33µH	20%	25	—	25.2	190	0.85	170	PCD1055CT-ND	.27	2.26	17.79	PCD1055TR-ND	2,000	97.00/M	ELJ-FCR33MF
0.39µH	20%	25	—	25.2	175	0.95	160	PCD1056CT-ND	.27	2.26	17.79	PCD1056TR-ND	2,000	97.00/M	ELJ-FCR39MF
0.47µH	20%	25	—	25.2	160	1.0	155	PCD1057CT-ND	.27	2.26	17.79	PCD1057TR-ND	2,000	97.00/M	ELJ-FCR47MF
0.56µH	20%	25	—	25.2	150	1.1	150	PCD1058CT-ND	.27	2.26	17.79	PCD1058TR-ND	2,000	97.00/M	ELJ-FCR56MF
0.68µH	20%	25	—	25.2	135	1.25	140	PCD1059CT-ND	.27	2.26	17.79	PCD1059TR-ND	2,000	97.00/M	ELJ-FCR68MF
0.82µH	20%	25	—	25.2	125	1.4	130	PCD1060CT-ND	.27	2.26	17.79	PCD1060TR-ND	2,000	97.00/M	ELJ-FCR82MF
Fig. 4, 1008 (2520) — Type FC (20% Tolerance) — RoHS Compliant															
0.27µH	20%	25	—	25.2	210	0.75	180	PCD1054CT-ND	.27	2.26	17.79	PCD1054TR-ND	2,000	97.00/M	ELJ-FCR27MF
Fig. 4, 1008 (2520) — Type FC (10% Tolerance)															
0.22µH	10%	25	—	25.2	230	0.70	190	PCD1220CT-ND	.27	2.26	17.79	PCD1220TR-ND	2,000	97.00/M	ELJ-FCR22KF
0.33µH	10%	25	—	25.2	190	0.85	170	PCD1222CT-ND	.27	2.26	17.79	PCD1222TR-ND	2,000	97.00/M	ELJ-FCR33KF
0.39µH	10%	25	—	25.2	175	0.95	160	PCD1223CT-ND	.27	2.26	17.79	PCD1223TR-ND	2,000	97.00/M	ELJ-FCR39KF
0.56µH	10%	25	—	25.2	150	1.10	150	PCD1225CT-ND	.27	2.26	17.79	PCD1225TR-ND	2,000	97.00/M	ELJ-FCR56KF
1.5µH	10%	25	—	7.96	90	0.85	170	PCD1063CT-ND	.27	2.26	17.79	PCD1063TR-ND	2,000	97.00/M	ELJ-FC1R5KF
8.2µH	10%	25	—	7.96	40	2.2	105	PCD1072CT-ND	.27	2.26	17.79	PCD1072TR-ND	2,000	97.00/M	ELJ-FC8R2KF
12µH	10%	25	—	2.52	30	3.8	75	PCD1074CT-ND	.27	2.26	17.79	PCD1074TR-ND	2,000	97.00/M	ELJ-FC120KF
15µH	10%	25	—	2.52	28	4.4	70	PCD1075CT-ND	.27	2.26	17.79	PCD1075TR-ND	2,000	97.00/M	ELJ-FC150KF
18µH	10%	25	—	2.52	25	5.0	65	PCD1076CT-ND	.27	2.26	17.79	PCD1076TR-ND	2,000	97.00/M	ELJ-FC180KF
Fig. 4, 1008 (2520) — Type FC (10% Tolerance) — RoHS Compliant															
0.27µH	10%	25	—	25.2	210	0.75	180	PCD1221CT-ND	.27	2.26	17.79	PCD1221TR-ND	2,000	97.00/M	ELJ-FCR27KF
0.47µH	10%	25	—	25.2	160	1.00	155	PCD1224CT-ND	.27	2.26	17.79	PCD1224TR-ND	2,000	97.00/M	ELJ-FCR47KF
0.68µH	10%	25	—	25.2	135	1.25	140	PCD1226CT-ND	.27	2.26	17.79	PCD1226TR-ND	2,000	97.00/M	ELJ-FCR68KF
0.82µH	10%	25	—	25.2	125	1.40	130	PCD1227CT-ND	.27	2.26	17.79	PCD1227TR-ND	2,000	97.00/M	ELJ-FCR82KF
1.0µH	10%	25	—	7.96	115	0.65	195	PCD1061CT-ND	.27	2.26	17.79	PCD1061TR-ND	2,000	97.00/M	ELJ-FC1R0KF
1.2µH	10%	25	—	7.96	100	0.75	180	PCD1062CT-ND	.27	2.26	17.79	PCD1062TR-ND	2,000	97.00/M	ELJ-FC1R2KF
1.8µH	10%	25	—	7.96	85	0.95	160	PCD1064CT-ND	.27	2.26	17.79	PCD1064TR-ND	2,000	97.00/M	ELJ-FC1R8KF
2.2µH	10%	25	—	7.96	80	1.05	155	PCD1065CT-ND	.27	2.26	17.79	PCD1065TR-ND	2,000	97.00/M	ELJ-FC2R2KF
2.7µH	10%	25	—	7.96	75	1.2	145	PCD1066CT-ND	.27	2.26	17.79	PCD1066TR-ND	2,000	97.00/M	ELJ-FC2R7KF
3.3µH	10%	25	—	7.96	65	1.3	135	PCD1067CT-ND	.27	2.26	17.79	PCD1067TR-ND	2,000	97.00/M	ELJ-FC3R3KF

(Continued)

Panasonic Surface Mount Inductors *(Cont.)*

Induc-tance	Tol-erance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
									1	10	100		Qty.	Pricing	
3.9µH	10%	25	—	7.96	60	1.4	130	PCD1068CT-ND	.27	2.26	17.79	PCD1068TR-ND	2,000	97.00/M	ELJ-FC3R9KF
4.7µH	10%	25	—	7.96	55	1.55	125	PCD1069CT-ND	.27	2.26	17.79	PCD1069TR-ND	2,000	97.00/M	ELJ-FC4R7KF
5.6µH	10%	25	—	7.96	50	1.75	120	PCD1070CT-ND	.27	2.26	17.79	PCD1070TR-ND	2,000	97.00/M	ELJ-FC5R6KF
6.8µH	10%	25	—	7.96	45	1.95	115	PCD1071CT-ND	.27	2.26	17.79	PCD1071TR-ND	2,000	97.00/M	ELJ-FC6R8KF
10µH	10%	25	—	2.52	32	3.5	80	PCD1073CT-ND	.27	2.26	17.79	PCD1073TR-ND	2,000	97.00/M	ELJ-FC100KF
22µH	10%	25	—	2.52	22	5.8	60	PCD1077CT-ND	.27	2.26	17.79	PCD1077TR-ND	2,000	97.00/M	ELJ-FC220KF
Fig. 4, 1008 (2520) — Type FC (5% Tolerance)															
1.5µH	5%	25	—	7.96	90	0.85	170	PCD1230CT-ND	.27	2.26	17.79	PCD1230TR-ND	2,000	97.00/M	ELJ-FC1R5JF
39µH	5%	20	—	2.52	18	9.5	90	PCD1247CT-ND	.27	2.26	17.79	PCD1247TR-ND	2,000	97.00/M	ELJ-FC390JF
Fig. 4, 1008 (2520) — Type FC (5% Tolerance) — RoHS Compliant															
1.0µH	5%	25	—	7.96	115	0.65	195	PCD1228CT-ND	.27	2.26	17.79	PCD1228TR-ND	2,000	97.00/M	ELJ-FC1R0JF
1.2µH	5%	25	—	7.96	100	0.75	180	PCD1229CT-ND	.27	2.26	17.79	PCD1229TR-ND	2,000	97.00/M	ELJ-FC1R2JF
1.8µH	5%	25	—	7.96	85	0.95	160	PCD1231CT-ND	.27	2.26	17.79	PCD1231TR-ND	2,000	97.00/M	ELJ-FC1R8JF
2.2µH	5%	25	—	7.96	80	1.05	155	PCD1232CT-ND	.27	2.26	17.79	PCD1232TR-ND	2,000	97.00/M	ELJ-FC2R2JF
2.7µH	5%	25	—	7.96	75	1.20	145	PCD1233CT-ND	.27	2.26	17.79	PCD1233TR-ND	2,000	97.00/M	ELJ-FC2R7JF
3.3µH	5%	25	—	7.96	65	1.30	135	PCD1234CT-ND	.27	2.26	17.79	PCD1234TR-ND	2,000	97.00/M	ELJ-FC3R3JF
3.9µH	5%	25	—	7.96	60	1.40	130	PCD1235CT-ND	.27	2.26	17.79	PCD1235TR-ND	2,000	97.00/M	ELJ-FC3R9JF
4.7µH	5%	25	—	7.96	55	1.55	125	PCD1236CT-ND	.27	2.26	17.79	PCD1236TR-ND	2,000	97.00/M	ELJ-FC4R7JF
5.6µH	5%	25	—	7.96	50	1.75	120	PCD1237CT-ND	.27	2.26	17.79	PCD1237TR-ND	2,000	97.00/M	ELJ-FC5R6JF
6.8µH	5%	25	—	7.96	45	1.95	115	PCD1238CT-ND	.27	2.26	17.79	PCD1238TR-ND	2,000	97.00/M	ELJ-FC6R8JF
8.2µH	5%	25	—	7.96	40	2.2	105	PCD1239CT-ND	.27	2.26	17.79	PCD1239TR-ND	2,000	97.00/M	ELJ-FC8R2JF
10µH	5%	25	—	2.52	32	3.5	80	PCD1240CT-ND	.27	2.26	17.79	PCD1240TR-ND	2,000	97.00/M	ELJ-FC100JF
12µH	5%	25	—	2.52	30	3.8	75	PCD1241CT-ND	.27	2.26	17.79	PCD1241TR-ND	2,000	97.00/M	ELJ-FC120JF
15µH	5%	25	—	2.52	28	4.4	70	PCD1242CT-ND	.27	2.26	17.79	PCD1242TR-ND	2,000	97.00/M	ELJ-FC150JF
18µH	5%	25	—	2.52	25	5.0	65	PCD1243CT-ND	.27	2.26	17.79	PCD1243TR-ND	2,000	97.00/M	ELJ-FC180JF
22µH	5%	25	—	2.52	22	5.8	60	PCD1244CT-ND	.27	2.26	17.79	PCD1244TR-ND	2,000	97.00/M	ELJ-FC220JF
27µH	5%	20	—	2.52	21	6.3	115	PCD1245CT-ND	.27	2.26	17.79	PCD1245TR-ND	2,000	97.00/M	ELJ-FC270JF
33µH	5%	20	—	2.52	20	7.1	110	PCD1246CT-ND	.27	2.26	17.79	PCD1246TR-ND	2,000	97.00/M	ELJ-FC330JF
47µH	5%	20	—	2.52	17	11.00	80	PCD1248CT-ND	.27	2.26	17.79	PCD1248TR-ND	2,000	97.00/M	ELJ-FC470JF
56µH	5%	20	—	2.52	16	12.1	75	PCD1249CT-ND	.27	2.26	17.79	PCD1249TR-ND	2,000	97.00/M	ELJ-FC560JF
68µH	5%	20	—	2.52	15	16.6	70	PCD1250CT-ND	.27	2.26	17.79	PCD1250TR-ND	2,000	97.00/M	ELJ-FC680JF
82µH	5%	20	—	2.52	13	19.0	65	PCD1251CT-ND	.27	2.26	17.79	PCD1251TR-ND	2,000	97.00/M	ELJ-FC820JF
100µH	5%	15	—	0.796	12	21.0	60	PCD1252CT-ND	.27	2.26	17.79	PCD1252TR-ND	2,000	97.00/M	ELJ-FC101JF
Fig. 4, 1008 (2520) — Type SC (10% Tolerance)															
33µH	10%	40	—	2.52	18	5.2	14	PCD1079CT-ND	.28	2.31	18.15	PCD1079TR-ND	2,000	99.00/M	ELJ-SC330KF
39µH	10%	40	—	2.52	15	5.7	13	PCD1080CT-ND	.28	2.31	18.15	PCD1080TR-ND	2,000	99.00/M	ELJ-SC390KF
56µH	10%	40	—	2.52	13	7.1	10	PCD1082CT-ND	.28	2.31	18.15	PCD1082TR-ND	2,000	99.00/M	ELJ-SC560KF
68µH	10%	25	—	2.52	13	6.5	17	PCD1083CT-ND	.28	2.31	18.15	PCD1083TR-ND	2,000	99.00/M	ELJ-SC680KF
82µH	10%	25	—	2.52	13	7.4	14	PCD1084CT-ND	.28	2.31	18.15	PCD1084TR-ND	2,000	99.00/M	ELJ-SC820KF
Fig. 4, 1008 (2520) — Type SC (10% Tolerance) — RoHS Compliant															
27µH	10%	40	—	2.52	20	4.5	18	PCD1078CT-ND	.28	2.31	18.15	PCD1078TR-ND	2,000	99.00/M	ELJ-SC270KF
47µH	10%	40	—	2.52	14	6.6	12	PCD1081CT-ND	.28	2.31	18.15	PCD1081TR-ND	2,000	99.00/M	ELJ-SC470KF
100µH	10%	25	—	0.796	12	8.4	10	PCD1085CT-ND	.28	2.31	18.15	PCD1085TR-ND	2,000	99.00/M	ELJ-SC101KF
Fig. 4, 1008 (2520) — Type PC															
1.5µH	20%	10	—	7.96	85	0.55	435	PCD1087CT-ND	.27	2.26	17.79	PCD1087TR-ND	2,000	97.00/M	ELJ-PC1R5MF
2.2µH	20%	10	—	7.96	65	0.65	390	PCD1088CT-ND	.27	2.26	17.79	PCD1088TR-ND	2,000	97.00/M	ELJ-PC2R2MF
Fig. 4, 1008 (2520) — Type PC — RoHS Compliant															
1.0µH	20%	10	—	7.96	95	0.45	475	PCD1086CT-ND	.27	2.26	17.79	PCD1086TR-ND	2,000	97.00/M	ELJ-PC1R0MF
3.3µH	20%	8	—	7.96	55	0.85	340	PCD1089CT-ND	.27	2.26	17.79	PCD1089TR-ND	2,000	97.00/M	ELJ-PC3R3MF
4.7µH	20%	8	—	7.96	43	1.2	285	PCD1090CT-ND	.27	2.26	17.79	PCD1090TR-ND	2,000	97.00/M	ELJ-PC4R7MF
6.8µH	10%	8	—	7.96	39	1.3	275	PCD1091CT-ND	.27	2.26	17.79	PCD1091TR-ND	2,000	97.00/M	ELJ-PC6R8KF
10µH	10%	20	—	2.52	32	2.2	210	PCD1092CT-ND	.27	2.26	17.79	PCD1092TR-ND	2,000	97.00/M	ELJ-PC100KF
12µH	10%	20	—	2.52	25	2.7	195	PCD1093CT-ND	.27	2.26	17.79	PCD1093TR-ND	2,000	97.00/M	ELJ-PC120KF
15µH	10%	20	—	2.52	21	3.2	175	PCD1094CT-ND	.27	2.26	17.79	PCD1094TR-ND	2,000	97.00/M	ELJ-PC150KF
22µH	10%	20	—	2.52	18	4.0	160	PCD1095CT-ND	.27	2.26	17.79	PCD1095TR-ND	2,000	97.00/M	ELJ-PC220KF
33µH	10%	20	—	2.52	16	6.5	120	PCD1096CT-ND	.27	2.26	17.79	PCD1096TR-ND	2,000	97.00/M	ELJ-PC330KF
Fig. 5, 1210 (3225) — Type FA															
0.27µH	20%	25	—	25.2	210	0.32	345	PCD1001CT-ND	.27	2.26	17.79	PCD1001TR-ND	2,000	97.00/M	ELJ-FAR27MF2
0.39µH	20%	25	—	25.2	175	0.39	305	PCD1003CT-ND	.27	2.26	17.79	PCD1003TR-ND	2,000	97.00/M	ELJ-FAR39MF2
0.68µH	20%	25	—	25.2	135	0.55	260	PCD1006CT-ND	.27	2.26	17.79	PCD1006TR-ND	2,000	97.00/M	ELJ-FAR68MF2
1.2µH	10%	30	—	7.96	100	0.75	215	PCD1009CT-ND	.27	2.26	17.79	PCD1009TR-ND	2,000	97.00/M	ELJ-FA1R2KF2
3.9µH	10%	30	—	7.96	60	1.3	175	PCD1015CT-ND	.27	2.26	17.79	PCD1015TR-ND	2,000	97.00/M	ELJ-FA3R9KF
5.6µH	10%	30	—	7.96	50	1.6	160	PCD1261CT-ND	.27	2.26	17.79	PCD1261TR-ND	2,000	97.00/M	ELJ-FA5R6KF
6.8µH	10%	30	—	7.96	45	1.8	150	PCD1262CT-ND	.27	2.26	17.79	PCD1262TR-ND	2,000	97.00/M	ELJ-FA6R8KF
8.2µH	10%	30	—	7.96	40	2.0	140	PCD1263CT-ND	.27	2.26	17.79	PCD1263TR-ND	2,000	97.00/M	ELJ-FA8R2KF
33µH	10%	30	—	2.52	20	5.6	85	PCD1026CT-ND	.27	2.26	17.79	PCD1026TR-ND	2,000	97.00/M	ELJ-FA330KF
56µH	10%	30	—	2.52	15	8.0	70	PCD1029CT-ND	.27	2.26	17.79	PCD1029TR-ND	2,000	97.00/M	ELJ-FA560KF
Fig. 5, 1210 (3225) — Type FA — RoHS Compliant															
0.22µH	20%	25	—	25.2	230	0.29	360	PCD1000CT-ND	.27	2.26	17.79	PCD1000TR-ND	2,000	97.00/M	ELJ-FAR22MF2
0.33µH	20%	25	—	25.2	190	0.35	330	PCD1002CT-ND	.27	2.26	17.79	PCD1002TR-ND	2,000	97.00/M	ELJ-FAR33MF2
0.47µH	20%	25	—	25.2	160	0.44	290	PCD1004CT-ND	.27	2.26	17.79	PCD1004TR-ND	2,000	97.00/M	ELJ-FAR47MF2
0.56µH	20%	25	—	25.2	150	0.49	275	PCD1005CT-ND	.27	2.26	17.79	PCD1005TR-ND	2,000	97.00/M	ELJ-FAR56MF2
0.82µH	20%	25	—	25.2	125	0.61	245	PCD1007CT-ND	.27	2.26	17.79	PCD1007TR-ND	2,000	97.00/M	ELJ-FAR82MF2
1.0µH	10%	30	—	7.96	115	0.69	230	PCD1008CT-ND	.27	2.26	17.79	PCD1008TR-ND	2,000	97.00/M	ELJ-FA1R0KF2
1.5µH	10%	30	—	7.96	90	0.75	210	PCD1010CT-ND	.27	2.26	17.79	PCD1010TR-ND	2,000	97.00/M	ELJ-FA1R5KF
1.8µH	10%	30	—	7.96	85	0.82	200	PCD1011CT-ND	.27	2.26	17.79	PCD1011TR-ND	2,000	97.00/M	ELJ-FA1R8KF
2.2µH	10%	30	—	7.96	80	0.95	190	PCD1012CT-ND	.27	2.26	17.79	PCD1012TR-ND	2,000	97.00/M	ELJ-FA2R2KF
2.7µH	10%	30	—	7.96	75	1.1	180	PCD1013CT-ND	.27	2.26	17.79	PCD1013TR-ND	2,000	97.00/M	ELJ-FA2R7KF
3.3µH	10%	30	—	7.96	65	1.2	180	PCD1014CT-ND	.27	2.26	17.79	PCD1014TR-ND	2,000	97.00/M	ELJ-FA3R3KF
4.7µH	10%	30	—	7.96	55	1.5	165	PCD1016CT-ND	.27	2.26	17.79	PCD1016TR-ND	2,000	97.00/M	ELJ-FA4R7KF
10µH	10%	30	—	2.52	36	2.1	140	PCD1020CT-ND	.27	2.26	17.79	PCD1020TR-ND	2,000	97.00/M	ELJ-FA100KF
12µH	10%	30	—	2.52	33	2.5	125	PCD1021CT-ND	.27	2.26	17.79	PCD1021TR-ND	2,000	97.00/M	ELJ-FA120KF
15µH	10%	30	—	2.52	30	2.8	120	PCD1022CT-ND	.27	2.26	17.79	PCD1022TR-ND	2,000	97.00/M	ELJ-FA150KF
18µH	10%	30	—	2.52	27	3.3	110	PCD1023CT-ND	.27	2.26	17.79	PCD1023TR-ND	2,000	97.00/M	ELJ-FA180KF
22µH	10%	30	—	2.52	25	3.7	105	PCD1024CT-ND	.27	2.26	17.79	PCD1024TR-ND	2,000	97.00/M	ELJ-FA220KF
27µH	10%	30	—	2.52	22	5.0	90	PCD1025CT-ND	.27	2.26	17.79	PCD1025TR-ND	2,000	97.00/M	ELJ-FA270KF
39µH	10%	30	—	2.52	20	6.4	80	PCD1027CT-ND	.27	2.26	17.79	PCD1027TR-ND	2,000	97.00/M	ELJ-FA390KF
47µH	10%	30	—	2.52	15	7.0	75	PCD1028CT-ND	.27	2.26	17.79	PCD1028TR-ND	2,000	97.00/M	ELJ-FA470KF
68µH	10%	30	—	2.52	15	9.0	65	PCD1030CT-ND	.27	2.26	17.79	PCD1030TR-ND	2,000	97.00/M	ELJ-FA680KF
82µH	10%	30	—	2.52	11	10.0	60	PCD1031CT-ND	.27	2.26	17.79	PCD1031TR-ND	2,000	97.00/M	ELJ-FA820KF
100µH	10%	20	—	0.796	10	10.0	60	PCD1032CT-ND	.27	2.26	17.79	PCD1032TR-ND	2,000	97.00/M	ELJ-FA101KF
120µH	10%	20	—	0.796	10	11.0	55	PCD1033CT-ND	.27	2.26	17.79	PCD1033TR-ND	2,000	97.00/M	ELJ-FA121KF
150µH	10%	20	—	0.796	8.0	15.0	50	PCD1034CT-ND	.27	2.26	17.79	PCD1034TR-ND	2,000	97.00/M	ELJ-FA151KF
180µH	10%	20	—	0.796	7.0	17.0	50	PCD1035CT-ND	.27	2.26	17.79	PCD1035TR-ND	2,000	97.00/M	ELJ-FA181KF
220µH	10%	20	—	0.796	7.0	21.0	45	PCD1036CT-ND	.27	2.26	17.79	PCD1036TR-ND	2,000	97.00/M	ELJ-FA221KF

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic Surface Mount Inductors *(Cont.)*

Induc-tance	Tol-erance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
Fig. 5, 1210 (3225) — Type FA (5% Tolerance)															
18µH	5%	30	—	2.52	27	3.3	110	PCD1823CT-ND	.27	2.26	17.79	PCD1823TR-ND	2,000	97.00/M	ELJ-FA180JF
220µH	5%	20	—	0.796	7	21	45	PCD1830CT-ND	.27	2.26	17.79	PCD1830TR-ND	2,000	97.00/M	ELJ-FA221JF
Fig. 5, 1210 (3225) — Type FA (5% Tolerance) — RoHS Compliant															
1.0µH	5%	30	—	7.96	115	0.69	230	PCD1825CT-ND	.27	2.26	17.79	PCD1825TR-ND	2,000	97.00/M	ELJ-FA1R0JF2
1.2µH	5%	30	—	7.96	100	0.75	215	PCD1826CT-ND	.27	2.26	17.79	PCD1826TR-ND	2,000	97.00/M	ELJ-FA1R2JF2
1.5µH	5%	30	—	7.96	90	0.75	210	PCD1827CT-ND	.27	2.26	17.79	PCD1827TR-ND	2,000	97.00/M	ELJ-FA1R5JF
1.8µH	5%	30	—	7.96	85	0.82	200	PCD1828CT-ND	.27	2.26	17.79	PCD1828TR-ND	2,000	97.00/M	ELJ-FA1R8JF
2.2µH	5%	30	—	7.96	80	0.95	190	PCD1832CT-ND	.27	2.26	17.79	PCD1832TR-ND	2,000	97.00/M	ELJ-FA2R2JF
2.7µH	5%	30	—	7.96	75	1.1	180	PCD1833CT-ND	.27	2.26	17.79	PCD1833TR-ND	2,000	97.00/M	ELJ-FA2R7JF
3.3µH	5%	30	—	7.96	65	1.2	180	PCD1836CT-ND	.27	2.26	17.79	PCD1836TR-ND	2,000	97.00/M	ELJ-FA3R3JF
3.9µH	5%	30	—	7.96	60	1.3	175	PCD1837CT-ND	.27	2.26	17.79	PCD1837TR-ND	2,000	97.00/M	ELJ-FA3R9JF
4.7µH	5%	30	—	7.96	55	1.5	165	PCD1839CT-ND	.27	2.26	17.79	PCD1839TR-ND	2,000	97.00/M	ELJ-FA4R7JF
5.6µH	5%	30	—	7.96	50	1.6	160	PCD1841CT-ND	.27	2.26	17.79	PCD1841TR-ND	2,000	97.00/M	ELJ-FA5R6JF
6.8µH	5%	30	—	7.96	45	1.8	150	PCD1843CT-ND	.27	2.26	17.79	PCD1843TR-ND	2,000	97.00/M	ELJ-FA6R8JF
8.2µH	5%	30	—	7.96	40	2.0	140	PCD1845CT-ND	.27	2.26	17.79	PCD1845TR-ND	2,000	97.00/M	ELJ-FA8R2JF
10µH	5%	30	—	2.52	36	2.1	140	PCD1817CT-ND	.27	2.26	17.79	PCD1817TR-ND	2,000	97.00/M	ELJ-FA100JF
12µH	5%	30	—	2.52	33	2.5	125	PCD1819CT-ND	.27	2.26	17.79	PCD1819TR-ND	2,000	97.00/M	ELJ-FA120JF
15µH	5%	30	—	2.52	30	2.8	120	PCD1821CT-ND	.27	2.26	17.79	PCD1821TR-ND	2,000	97.00/M	ELJ-FA150JF
22µH	5%	30	—	2.52	25	3.7	105	PCD1829CT-ND	.27	2.26	17.79	PCD1829TR-ND	2,000	97.00/M	ELJ-FA220JF
27µH	5%	30	—	2.52	22	5.0	90	PCD1831CT-ND	.27	2.26	17.79	PCD1831TR-ND	2,000	97.00/M	ELJ-FA270JF
33µH	5%	30	—	2.52	20	5.6	85	PCD1834CT-ND	.27	2.26	17.79	PCD1834TR-ND	2,000	97.00/M	ELJ-FA330JF
39µH	5%	30	—	2.52	20	6.4	80	PCD1835CT-ND	.27	2.26	17.79	PCD1835TR-ND	2,000	97.00/M	ELJ-FA390JF
47µH	5%	30	—	2.52	15	7.0	75	PCD1838CT-ND	.27	2.26	17.79	PCD1838TR-ND	2,000	97.00/M	ELJ-FA470JF
56µH	5%	30	—	2.52	15	8.0	70	PCD1840CT-ND	.27	2.26	17.79	PCD1840TR-ND	2,000	97.00/M	ELJ-FA560JF
68µH	5%	30	—	2.52	15	9.0	65	PCD1842CT-ND	.27	2.26	17.79	PCD1842TR-ND	2,000	97.00/M	ELJ-FA680JF
82µH	5%	30	—	2.52	11	10	60	PCD1844CT-ND	.27	2.26	17.79	PCD1844TR-ND	2,000	97.00/M	ELJ-FA820JF
100µH	5%	20	—	0.796	10	10	60	PCD1818CT-ND	.27	2.26	17.79	PCD1818TR-ND	2,000	97.00/M	ELJ-FA101JF
120µH	5%	20	—	0.796	10	11	55	PCD1820CT-ND	.27	2.26	17.79	PCD1820TR-ND	2,000	97.00/M	ELJ-FA121JF
150µH	5%	20	—	0.796	8	15	50	PCD1822CT-ND	.27	2.26	17.79	PCD1822TR-ND	2,000	97.00/M	ELJ-FA151JF
180µH	5%	20	—	0.796	7	17	50	PCD1824CT-ND	.27	2.26	17.79	PCD1824TR-ND	2,000	97.00/M	ELJ-FA181JF
Fig. 5, 1210 (3225) — Type NA															
0.056µH	20%	10	—	100	600	0.22	420	PCD1116CT-ND	.27	2.26	17.79	PCD1116TR-ND	2,000	97.00/M	ELJ-NA56NMF
0.068µH	20%	10	—	100	540	0.25	400	PCD1117CT-ND	.27	2.26	17.79	PCD1117TR-ND	2,000	97.00/M	ELJ-NA68NMF
0.082µH	20%	10	—	100	500	0.27	380	PCD1118CT-ND	.27	2.26	17.79	PCD1118TR-ND	2,000	97.00/M	ELJ-NA82NMF
0.12µH	20%	10	—	25.2	400	0.67	240	PCD1120CT-ND	.27	2.26	17.79	PCD1120TR-ND	2,000	97.00/M	ELJ-NAR12MF
0.15µH	20%	10	—	25.2	350	0.72	230	PCD1121CT-ND	.27	2.26	17.79	PCD1121TR-ND	2,000	97.00/M	ELJ-NAR15MF
0.27µH	10%	10	—	1.0, 25.2	250	1.0	200	PCD1124CT-ND	.27	2.26	17.79	PCD1124TR-ND	2,000	97.00/M	ELJ-NAR27KF
0.33µH	10%	10	—	1.0, 25.2	220	1.1	190	PCD1125CT-ND	.27	2.26	17.79	PCD1125TR-ND	2,000	97.00/M	ELJ-NAR33KF
0.39µH	10%	10	—	1.0, 25.2	200	1.2	180	PCD1126CT-ND	.27	2.26	17.79	PCD1126TR-ND	2,000	97.00/M	ELJ-NAR39KF
3.9µH	5%	13	—	1.0, 7.96	57	4.4	95	PCD1138CT-ND	.27	2.26	17.79	PCD1138TR-ND	2,000	97.00/M	ELJ-NA3R9JF
Fig. 5, 1210 (3225) — Type NA — RoHS Compliant															
0.047µH	20%	10	—	100	680	0.20	450	PCD1115CT-ND	.27	2.26	17.79	PCD1115TR-ND	2,000	97.00/M	ELJ-NA47NMF
0.10µH	20%	10	—	100	450	0.30	360	PCD1119CT-ND	.27	2.26	17.79	PCD1119TR-ND	2,000	97.00/M	ELJ-NAR10MF
0.18µH	20%	10	—	25.2	320	0.81	220	PCD1122CT-ND	.27	2.26	17.79	PCD1122TR-ND	2,000	97.00/M	ELJ-NAR18MF
0.22µH	10%	10	—	1.0, 25.2	280	0.90	210	PCD1123CT-ND	.27	2.26	17.79	PCD1123TR-ND	2,000	97.00/M	ELJ-NAR22KF
0.47µH	10%	10	—	1.0, 25.2	180	1.4	175	PCD1127CT-ND	.27	2.26	17.79	PCD1127TR-ND	2,000	97.00/M	ELJ-NAR47KF
0.56µH	10%	10	—	1.0, 25.2	160	1.5	170	PCD1128CT-ND	.27	2.26	17.79	PCD1128TR-ND	2,000	97.00/M	ELJ-NAR56KF
0.68µH	10%	10	—	1.0, 25.2	150	1.7	155	PCD1129CT-ND	.27	2.26	17.79	PCD1129TR-ND	2,000	97.00/M	ELJ-NAR68KF
0.82µH	10%	10	—	1.0, 25.2	135	1.9	145	PCD1130CT-ND	.27	2.26	17.79	PCD1130TR-ND	2,000	97.00/M	ELJ-NAR82KF
1.0µH	5%	13	—	1.0, 7.96	120	2.1	125	PCD1131CT-ND	.27	2.26	17.79	PCD1131TR-ND	2,000	97.00/M	ELJ-NA1R0JF
1.2µH	5%	13	—	1.0, 7.96	110	2.3	120	PCD1132CT-ND	.27	2.26	17.79	PCD1132TR-ND	2,000	97.00/M	ELJ-NA1R2JF
1.5µH	5%	13	—	1.0, 7.96	95	2.7	115	PCD1133CT-ND	.27	2.26	17.79	PCD1133TR-ND	2,000	97.00/M	ELJ-NA1R5JF
1.8µH	5%	13	—	1.0, 7.96	85	3.0	110	PCD1134CT-ND	.27	2.26	17.79	PCD1134TR-ND	2,000	97.00/M	ELJ-NA1R8JF
2.2µH	5%	13	—	1.0, 7.96	80	3.2	110	PCD1135CT-ND	.27	2.26	17.79	PCD1135TR-ND	2,000	97.00/M	ELJ-NA2R2JF
2.7µH	5%	13	—	1.0, 7.96	70	3.6	105	PCD1136CT-ND	.27	2.26	17.79	PCD1136TR-ND	2,000	97.00/M	ELJ-NA2R7JF
3.3µH	5%	13	—	1.0, 7.96	62	4.2	100	PCD1137CT-ND	.27	2.26	17.79	PCD1137TR-ND	2,000	97.00/M	ELJ-NA3R3JF
4.7µH	5%	13	—	1.0, 7.96	52	7.7	70	PCD1139CT-ND	.27	2.26	17.79	PCD1139TR-ND	2,000	97.00/M	ELJ-NA4R7JF
5.6µH	5%	13	—	1.0, 7.96	46	8.7	65	PCD1140CT-ND	.27	2.26	17.79	PCD1140TR-ND	2,000	97.00/M	ELJ-NA5R6JF
6.8µH	5%	13	—	1.0, 7.96	42	10.0	60	PCD1141CT-ND	.27	2.26	17.79	PCD1141TR-ND	2,000	97.00/M	ELJ-NA6R8JF
8.2µH	5%	13	—	1.0, 7.96	38	11.0	60	PCD1142CT-ND	.27	2.26	17.79	PCD1142TR-ND	2,000	97.00/M	ELJ-NA8R2JF
Fig. 5, 1210 (3225) — Type SA (10% Tolerance)															
15µH	10%	40	—	1.0, 5.0	25	2.2	15	PCD1099CT-ND	.28	2.31	18.15	PCD1099TR-ND	2,000	99.00/M	ELJ-SA150KF
18µH	10%	40	—	1.0, 5.0	23	2.5	13	PCD1100CT-ND	.28	2.31	18.15	PCD1100TR-ND	2,000	99.00/M	ELJ-SA180KF
33µH	10%	40	—	1.0, 5.0	17	3.5	10	PCD1103CT-ND	.28	2.31	18.15	PCD1103TR-ND	2,000	99.00/M	ELJ-SA330KF
39µH	10%	40	—	1.0, 5.0	15	3.8	9.0	PCD1104CT-ND	.28	2.31	18.15	PCD1104TR-ND	2,000	99.00/M	ELJ-SA390KF
47µH	10%	40	—	1.0, 5.0	14	4.0	8.0	PCD1105CT-ND	.28	2.31	18.15	PCD1105TR-ND	2,000	99.00/M	ELJ-SA470KF
56µH	10%	40	—	1.0, 5.0	13	4.5	7.0	PCD1106CT-ND	.28	2.31	18.15	PCD1106TR-ND	2,000	99.00/M	ELJ-SA560KF
82µH	10%	40	—	1.0, 1.5	11	6.0	6.0	PCD1108CT-ND	.28	2.31	18.15	PCD1108TR-ND	2,000	99.00/M	ELJ-SA820KF
120µH	10%	40	—	1.0, 1.5	9.0	8.0	5.0	PCD1110CT-ND	.28	2.31	18.15	PCD1110TR-ND	2,000	99.00/M	ELJ-SA121KF
150µH	10%	40	—	0.1, 1.5	5.0	9.0	5.0	PCD1111CT-ND	.28	2.31	18.15	PCD1111TR-ND	2,000	99.00/M	ELJ-SA151KF
Fig. 5, 1210 (3225) — Type SA (10% Tolerance) — RoHS Compliant															
10µH	10%	40	—	1.0, 5.0	30	1.8	18	PCD1097CT-ND	.28	2.31	18.15	PCD1097TR-ND	2,000	99.00/M	ELJ-SA100KF
12µH	10%	40	—	1.0, 5.0	28	2.0	17	PCD1098CT-ND	.28	2.31	18.15	PCD1098TR-ND	2,000	99.00/M	ELJ-SA120KF
22µH	10%	40	—	1.0, 5.0	20	2.8	12	PCD1101CT-ND	.28	2.31	18.15	PCD1101TR-ND	2,000	99.00/M	ELJ-SA220KF
27µH	10%	40	—	1.0, 5.0	18	3.2	10	PCD1102CT-ND	.28	2.31	18.15	PCD1102TR-ND	2,000	99.00/M	ELJ-SA270KF
68µH	10%	40	—	1.0, 1.5	12	5.0	6.0	PCD1107CT-ND	.28	2.31	18.15	PCD1107TR-ND	2,000	99.00/M	ELJ-SA680KF
100µH	10%	40	—	1.0, 1.5	10	7.0	5.0	PCD1109CT-ND	.28	2.31	18.15	PCD1109TR-ND	2,000	99.00/M	ELJ-SA101KF
180µH	10%	40	—	0.1, 1.5	5.0	11.0	5.0	PCD1112CT-ND	.28	2.31	18.15	PCD1112TR-ND	2,000	99.00/M	ELJ-SA181KF
220µH	10%	40	—	0.1, 1.5	4.0	12.0	5.0	PCD1113CT-ND	.28	2.31	18.15	PCD1113TR-ND	2,000	99.00/M	ELJ-SA221KF
270µH	10%	40	—	0.1, 1.5	4.0	14.0	5.0	PCD1114CT-ND	.28	2.31	18.15	PCD1114TR-ND	2,000	99.00/M	ELJ-SA271KF
Fig. 5, 1210 (3225) — Type EA															
1.5µH	20%	7	—	7.96	80	0.10	390	PCD1418CT-ND	.35	2.88	22.61	PCD1418TR-ND	2,000	123.00/M	ELJ-EA1R5MF
3.3µH	20%	7	—	7.96	50	0.16	270	PCD1420CT-ND	.35	2.88	22.61	PCD1420TR-ND	2,000	123.00/M	ELJ-EA3R3MF
68µH	10%	10	—	2.52	10	1.95	60	PCD1428CT-ND	.35	2.88	22.61	PCD1428TR-ND	2,000	123.00/M	ELJ-EA680KF
150µH	10%	20	—	0.796	7.0	4.03	45	PCD1430CT-ND	.35	2.88	22.61	PCD1430TR-ND	2,000	123.00/M	ELJ-EA151KF
Fig. 5, 1210 (3225) — Type EA — RoHS Compliant															
1.0µH	20%	7	—	7.96	100	0.09	500	PCD1417CT-ND	.35	2.88	22.61	PCD1417TR-ND	2,000	123.00/M	ELJ-EA1R0MF
2.2µH	20%	7	—	7.96	65	0.13	350	PCD1419CT-ND	.35	2.88	22.61	PCD1419TR-ND	2,000	123.00/M	ELJ-EA2R2MF
4.7µH	20%	7	—	7.96	46	0.18	240	PCD1421CT-ND	.35	2.88	22.61	PCD1421TR-ND	2,000	123.00/M	ELJ-EA4R7MF
6.8µH	20%	7	—	7.96	36	0.25	200	PCD1422CT-ND	.35	2.88	22.61	PCD1422TR-ND	2,000	123.00/M	ELJ-EA6R8MF
10µH	10%	10	—	2.52	29	0.34	160	PCD1423CT-ND	.35	2.88	22.61	PCD1423TR-ND	2,000	123.00/M	ELJ-EA100KF
15µH	10%	10	—	2.52	25	0.42	145	PCD1424CT-ND	.35	2.88	22.61	PCD1424TR-ND	2,000	123.00/M	ELJ-EA150KF
22µH	10%	10	—	2.52	18	0.65	115	PCD1425CT-ND	.35	2.88	22.61	PCD1425TR-ND	2,000	123.00/M	ELJ-EA220KF
33µH	10%	10	—	2.52	16	0.91	95	PCD1426CT-ND	.35	2.88	22.61	PCD1426TR-ND	2,000	123.00/M	ELJ-EA330KF

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Induc-tance	Tol-erance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
									1	10	100		Qty.	Pricing	
47µH	10%	10	—	2.52	13	1.30	80	PCD1427CT-ND	.35	2.88	22.61	PCD1427TR-ND	2,000	123.00/M	ELJ-EA470KF
100µH	10%	20	—	0.796	8.0	3.12	50	PCD1429CT-ND	.35	2.88	22.61	PCD1429TR-ND	2,000	123.00/M	ELJ-EA101KF
220µH	10%	20	—	0.796	5.0	7.15	35	PCD1431CT-ND	.35	2.88	22.61	PCD1431TR-ND	2,000	123.00/M	ELJ-EA221KF
330µH	10%	20	—	0.796	4.0	9.23	30	PCD1432CT-ND	.35	2.88	22.61	PCD1432TR-ND	2,000	123.00/M	ELJ-EA331KF
Fig. 5, 1210 (3225) — Type PA															
1.5µH	20%	7	—	7.96	110	0.18	550	PCD1479CT-ND	.27	2.26	17.79	PCD1479TR-ND	2,000	97.00/M	ELJ-PA1R5MF
27µH	10%	15	—	2.52	13	1.45	165	PCD1489CT-ND	.27	2.26	17.79	PCD1489TR-ND	2,000	97.00/M	ELJ-PA270KF
56µH	10%	15	—	2.52	8.5	3.30	110	PCD1493CT-ND	.27	2.26	17.79	PCD1493TR-ND	2,000	97.00/M	ELJ-PA560KF
120µH	10%	20	—	0.796	6.0	7.00	75	PCD1497CT-ND	.27	2.26	17.79	PCD1497TR-ND	2,000	97.00/M	ELJ-PA121KF
150µH	10%	20	—	0.796	5.5	8.00	70	PCD1498CT-ND	.27	2.26	17.79	PCD1498TR-ND	2,000	97.00/M	ELJ-PA151KF
270µH	10%	20	—	0.796	3.5	14.5	55	PCD1501CT-ND	.27	2.26	17.79	PCD1501TR-ND	2,000	97.00/M	ELJ-PA271KF
Fig. 5, 1210 (3225) — Type PA — RoHS Compliant															
1.0µH	20%	7	—	7.96	150	0.15	600	PCD1478CT-ND	.27	2.26	17.79	PCD1478TR-ND	2,000	97.00/M	ELJ-PA1R0MF
2.2µH	20%	7	—	7.96	80	0.23	500	PCD1480CT-ND	.27	2.26	17.79	PCD1480TR-ND	2,000	97.00/M	ELJ-PA2R2MF
3.3µH	20%	7	—	7.96	58	0.28	400	PCD1481CT-ND	.27	2.26	17.79	PCD1481TR-ND	2,000	97.00/M	ELJ-PA3R3MF
4.7µH	20%	7	—	7.96	46	0.34	350	PCD1482CT-ND	.27	2.26	17.79	PCD1482TR-ND	2,000	97.00/M	ELJ-PA4R7MF
6.8µH	20%	7	—	7.96	38	0.42	300	PCD1483CT-ND	.27	2.26	17.79	PCD1483TR-ND	2,000	97.00/M	ELJ-PA6R8MF
10µH	10%	15	—	2.52	23	0.50	240	PCD1484CT-ND	.27	2.26	17.79	PCD1484TR-ND	2,000	97.00/M	ELJ-PA100KF
12µH	10%	15	—	2.52	21	0.60	230	PCD1485CT-ND	.27	2.26	17.79	PCD1485TR-ND	2,000	97.00/M	ELJ-PA120KF
15µH	10%	15	—	2.52	18	0.74	220	PCD1486CT-ND	.27	2.26	17.79	PCD1486TR-ND	2,000	97.00/M	ELJ-PA150KF
18µH	10%	15	—	2.52	17	0.90	205	PCD1487CT-ND	.27	2.26	17.79	PCD1487TR-ND	2,000	97.00/M	ELJ-PA180KF
22µH	10%	15	—	2.52	15	1.15	185	PCD1488CT-ND	.27	2.26	17.79	PCD1488TR-ND	2,000	97.00/M	ELJ-PA220KF
33µH	10%	15	—	2.52	12	1.65	155	PCD1490CT-ND	.27	2.26	17.79	PCD1490TR-ND	2,000	97.00/M	ELJ-PA330KF
39µH	10%	15	—	2.52	11	1.90	145	PCD1491CT-ND	.27	2.26	17.79	PCD1491TR-ND	2,000	97.00/M	ELJ-PA390KF
47µH	10%	15	—	2.52	9.5	2.25	135	PCD1492CT-ND	.27	2.26	17.79	PCD1492TR-ND	2,000	97.00/M	ELJ-PA470KF
68µH	10%	15	—	2.52	7.5	3.70	105	PCD1494CT-ND	.27	2.26	17.79	PCD1494TR-ND	2,000	97.00/M	ELJ-PA680KF
82µH	10%	15	—	2.52	7.0	4.20	100	PCD1495CT-ND	.27	2.26	17.79	PCD1495TR-ND	2,000	97.00/M	ELJ-PA820KF
100µH	10%	20	—	0.796	6.5	5.00	90	PCD1496CT-ND	.27	2.26	17.79	PCD1496TR-ND	2,000	97.00/M	ELJ-PA101KF
180µH	10%	20	—	0.796	5.0	9.50	65	PCD1499CT-ND	.27	2.26	17.79	PCD1499TR-ND	2,000	97.00/M	ELJ-PA181KF
220µH	10%	20	—	0.796	4.0	11.0	60	PCD1500CT-ND	.27	2.26	17.79	PCD1500TR-ND	2,000	97.00/M	ELJ-PA221KF
330µH	10%	20	—	0.796	3.0	16.0	50	PCD1502CT-ND	.27	2.26	17.79	PCD1502TR-ND	2,000	97.00/M	ELJ-PA331KF
Fig. 6, 1812 (4532) — Type FB															
.27µH	20%	30	—	25.2	200	0.32	650	PCD1434CT-ND	.49	4.01	26.76	PCD1434TR-ND	500	78.00	ELJ-FBR27MF
.39µH	20%	30	—	25.2	155	0.37	620	PCD1436CT-ND	.49	4.01	26.76	PCD1436TR-ND	500	78.00	ELJ-FBR39MF
.47µH	20%	30	—	25.2	135	0.40	580	PCD1437CT-ND	.49	4.01	26.76	PCD1437TR-ND	500	78.00	ELJ-FBR47MF
.56µH	20%	30	—	25.2	120	0.42	560	PCD1438CT-ND	.49	4.01	26.76	PCD1438TR-ND	500	78.00	ELJ-FBR56MF
.68µH	20%	30	—	25.2	105	0.48	530	PCD1439CT-ND	.49	4.01	26.76	PCD1439TR-ND	500	78.00	ELJ-FBR68MF
.82µH	20%	30	—	25.2	90	0.50	500	PCD1440CT-ND	.49	4.01	26.76	PCD1440TR-ND	500	78.00	ELJ-FBR82MF
1.5µH	10%	30	—	25.2	60	0.61	430	PCD1443CT-ND	.49	4.01	26.76	PCD1443TR-ND	500	78.00	ELJ-FB1R5KF
3.3µH	10%	50	—	7.96	39	0.66	380	PCD1447CT-ND	.49	4.01	26.76	PCD1447TR-ND	500	78.00	ELJ-FB3R3KF
5.6µH	10%	50	—	5.0	30	0.88	330	PCD1450CT-ND	.49	4.01	26.76	PCD1450TR-ND	500	78.00	ELJ-FB5R6KF
8.2µH	10%	50	—	5.0	24	1.6	250	PCD1452CT-ND	.49	4.01	26.76	PCD1452TR-ND	500	78.00	ELJ-FB8R2KF
33µH	5%	50	—	2.52	12	3.1	175	PCD1459CT-ND	.49	4.01	26.76	PCD1459TR-ND	500	78.00	ELJ-FB330JF
82µH	5%	40	—	2.52	7.5	5.9	110	PCD1464CT-ND	.49	4.01	26.76	PCD1464TR-ND	500	78.00	ELJ-FB820JF
Fig. 6, 1812 (4532) — Type FB — RoHS Compliant															
.22µH	20%	30	—	25.2	230	0.30	700	PCD1433CT-ND	.49	4.01	26.76	PCD1433TR-ND	500	78.00	ELJ-FBR22MF
.33µH	20%	30	—	25.2	180	0.35	630	PCD1435CT-ND	.49	4.01	26.76	PCD1435TR-ND	500	78.00	ELJ-FBR33MF
1.0µH	10%	30	—	25.2	80	0.52	470	PCD1441CT-ND	.49	4.01	26.76	PCD1441TR-ND	500	78.00	ELJ-FB1R0KF
1.2µH	10%	30	—	25.2	70	0.55	460	PCD1442CT-ND	.49	4.01	26.76	PCD1442TR-ND	500	78.00	ELJ-FB1R2KF
1.8µH	10%	30	—	25.2	50	0.61	410	PCD1444CT-ND	.49	4.01	26.76	PCD1444TR-ND	500	78.00	ELJ-FB1R8KF
2.2µH	10%	30	—	7.96	45	0.61	410	PCD1445CT-ND	.49	4.01	26.76	PCD1445TR-ND	500	78.00	ELJ-FB2R2KF
2.7µH	10%	50	—	7.96	43	0.61	400	PCD1446CT-ND	.49	4.01	26.76	PCD1446TR-ND	500	78.00	ELJ-FB2R7KF
3.9µH	10%	50	—	7.96	36	0.74	360	PCD1448CT-ND	.49	4.01	26.76	PCD1448TR-ND	500	78.00	ELJ-FB3R9KF
4.7µH	10%	50	—	5.0	33	0.81	350	PCD1449CT-ND	.49	4.01	26.76	PCD1449TR-ND	500	78.00	ELJ-FB4R7KF
6.8µH	10%	50	—	5.0	26	1.0	310	PCD1451CT-ND	.49	4.01	26.76	PCD1451TR-ND	500	78.00	ELJ-FB6R8KF
10µH	5%	50	—	5.0	22	1.8	235	PCD1453CT-ND	.49	4.01	26.76	PCD1453TR-ND	500	78.00	ELJ-FB100JF
12µH	5%	50	—	5.0	20	1.9	225	PCD1454CT-ND	.49	4.01	26.76	PCD1454TR-ND	500	78.00	ELJ-FB120JF
15µH	5%	50	—	5.0	18	2.1	215	PCD1455CT-ND	.49	4.01	26.76	PCD1455TR-ND	500	78.00	ELJ-FB150JF
18µH	5%	50	—	5.0	16	2.3	205	PCD1456CT-ND	.49	4.01	26.76	PCD1456TR-ND	500	78.00	ELJ-FB180JF
22µH	5%	50	—	2.52	15	2.6	195	PCD1457CT-ND	.49	4.01	26.76	PCD1457TR-ND	500	78.00	ELJ-FB220JF
27µH	5%	50	—	2.52	13	2.9	185	PCD1458CT-ND	.49	4.01	26.76	PCD1458TR-ND	500	78.00	ELJ-FB270JF
39µH	5%	50	—	2.52	10	3.6	165	PCD1460CT-ND	.49	4.01	26.76	PCD1460TR-ND	500	78.00	ELJ-FB390JF
47µH	5%	50	—	2.52	9.7	4.2	130	PCD1461CT-ND	.49	4.01	26.76	PCD1461TR-ND	500	78.00	ELJ-FB470JF
56µH	5%	40	—	2.52	9.0	4.7	125	PCD1462CT-ND	.49	4.01	26.76	PCD1462TR-ND	500	78.00	ELJ-FB560JF
68µH	5%	40	—	2.52	8.2	5.3	115	PCD1463CT-ND	.49	4.01	26.76	PCD1463TR-ND	500	78.00	ELJ-FB680JF
100µH	5%	40	—	2.52	6.7	8.8	105	PCD1465CT-ND	.49	4.01	26.76	PCD1465TR-ND	500	78.00	ELJ-FB101JF
120µH	5%	40	—	1.5	6.1	10	100	PCD1466CT-ND	.49	4.01	26.76	PCD1466TR-ND	500	78.00	ELJ-FB121JF
150µH	5%	40	—	1.5	5.5	11	95	PCD1467CT-ND	.49	4.01	26.76	PCD1467TR-ND	500	78.00	ELJ-FB151JF
180µH	5%	40	—	1.5	5.1	13	85	PCD1468CT-ND	.49	4.01	26.76	PCD1468TR-ND	500	78.00	ELJ-FB181JF
220µH	5%	40	—	0.796	4.5	13	85	PCD1469CT-ND	.49	4.01	26.76	PCD1469TR-ND	500	78.00	ELJ-FB221JF
270µH	5%	40	—	0.796	4.1	14	80	PCD1470CT-ND	.49	4.01	26.76	PCD1470TR-ND	500	78.00	ELJ-FB271JF
330µH	5%	40	—	0.796	3.7	16	75	PCD1471CT-ND	.49	4.01	26.76	PCD1471TR-ND	500	78.00	ELJ-FB331JF
390µH	5%	40	—	0.796	3.3	19	70	PCD1472CT-ND	.49	4.01	26.76	PCD1472TR-ND	500	78.00	ELJ-FB391JF
470µH	5%	30	—	0.796	3.3	31	55	PCD1473CT-ND	.49	4.01	26.76	PCD1473TR-ND	500	78.00	ELJ-FB471JF
560µH	5%	30	—	0.796	2.7	35	50	PCD1474CT-ND	.49	4.01	26.76	PCD1474TR-ND	500	78.00	ELJ-FB561JF
680µH	5%	30	—	0.796	2.5	39	50	PCD1475CT-ND	.49	4.01	26.76	PCD1475TR-ND	500	78.00	ELJ-FB681JF
820µH	5%	30	—	0.796	2.4	45	45	PCD1476CT-ND	.49	4.01	26.76	PCD1476TR-ND	500	78.00	ELJ-FB821JF
1000µH	5%	30	—	0.796	2.1	53	40	PCD1477CT-ND	.49	4.01	26.76	PCD1477TR-ND	500	78.00	ELJ-FB102JF
Fig. 6, 1812 (4532) — Type PB (10% Tolerance)															
18µH	10%	10	—	2.52	14	0.90	310	PCD1525CT-ND	.61	4.99	33.24	PCD1525TR-ND	500	97.00	ELJ-PB180KF
27µH	10%	10	—	2.52	11	1.20	270	PCD1527CT-ND	.61	4.99	33.24	PCD1527TR-ND	500	97.00	ELJ-PB270KF
39µH	10%	10	—	2.52	9.5	1.60	230	PCD1529CT-ND	.61	4.99	33.24	PCD1529TR-ND	500	97.00	ELJ-PB390KF
82µH	10%	10	—	2.52	6.5	3.50	160	PCD1533CT-ND	.61	4.99	33.24	PCD1533TR-ND	500	97.00	ELJ-PB820KF
Fig. 6, 1812 (4532) — Type PB (10% Tolerance) — RoHS Compliant															
10µH	10%	10	—	2.52	19	0.65	360	PCD1522CT-ND	.61	4.99	33.24	PCD1522TR-ND	500	97.00	ELJ-PB100KF
12µH	10%	10	—	2.52	17	0.70	340	PCD1523CT-ND	.61	4.99	33.24	PCD1523TR-ND	500	97.00	ELJ-PB120KF
15µH	10%	10	—	2.52	15	0.80	320	PCD1524CT-ND	.61	4.99	33.24	PCD1524TR-ND	500	97.00	ELJ-PB150KF
22µH	10%	10	—	2.52	13	1.00	300	PCD1526CT-ND	.61	4.99	33.24	PCD1526TR-ND	500	97.00	ELJ-PB220KF
33µH	10%	10	—	2.52	10	1.40	250	PCD1528CT-ND	.61	4.99	33.24	PCD1528TR-ND	500	97.00	ELJ-PB330KF
47µH	10%	10	—	2.52	8.5	1.90	210	PCD1530CT-ND	.61	4.99	33.24	PCD1530TR-ND	500	97.00	ELJ-PB470KF
56µH	10%	10	—	2.52	8	2.20	190	PCD1531CT-ND	.61	4.99	33.24	PCD1531TR-ND	500	97.00	ELJ-PB560KF
68µH	10%	10	—	2.52	7	2.60	170	PCD1532CT-ND	.61	4.99	33.24	PCD1532TR-ND	500	97.00	ELJ-PB680KF
100µH	10%	20	—	0.796	6	4.00	150	PCD1534CT-ND	.61	4.99	33.24	PCD1534TR-ND	500	97.00	ELJ-PB101KF
120µH	10%	20	—	0.796	5.5	4.50	130	PCD1535CT-ND	.61	4.99	33.24	PCD1535TR-ND	500	97.00	ELJ-PB121KF
150µH	10%	20	—	0.796	5	6.50	120	PCD1536CT-ND	.61	4.99	33.24	PCD1536TR-ND	500	97.00	ELJ-PB151KF
180µH	10%	20	—	0.796	4.5	7.50	110	PCD1537CT-ND	.61	4.99	33.24	PCD1537TR-ND	500	97.00	ELJ-PB181KF
220µH	10%	20	—	0.796	4	9.00	90	PCD1538CT-ND	.61	4.99	33.24	PCD1538TR-ND	500	97.00	ELJ-PB221KF

Delay Lines

Fig. 1

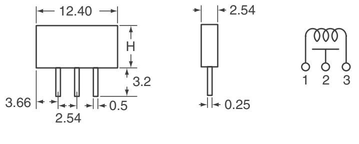

Time Delay	H	Form
0.1 ~ 5.0ns	6.35 max.	D
5.5 ~ 10.0ns	9.20 max.	V

Fig. 2

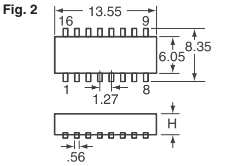

Time Delay	H	Code
0.1 ~ 1.0ns	2.37 max.	L
1.1 ~ 5.0ns	4.85 max.	M

GL1L

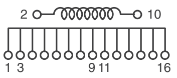

GL2L

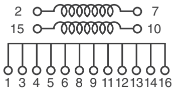

Fig. 3

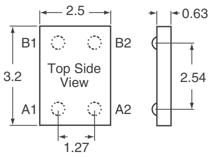

CL1L5

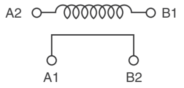

CL2LA

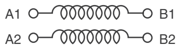

Dimensions in mm

Fig.	Delay (Ns)	Tolerance (pS)	Impedance (Ω)	Insertion Loss MHz (-3dB)	Return Loss MHz (-15dB)	Digi-Key Part No.	Price Each 1	10	50	Susumu Part No.
DS1L Series 3 Pin SIP Delay Lines										
1	0.1	±50	50 ±5	2980	2380	408-1108-ND	9.23	6.55	5.69	DS1L5DJ010S-C
	0.5	±50	50 ±5	2580	800	408-1109-ND	9.23	6.55	5.69	DS1L5DJ050S-C
	1.0	±50	50 ±5	1260	185	408-1110-ND	9.23	6.55	5.69	DS1L5DJ100S-C
	1.5	±50	50 ±5	1140	180	408-1111-ND	9.23	6.55	5.69	DS1L5DJ150S-C
	2.0	±50	50 ±5	910	118	408-1112-ND	9.23	6.55	5.69	DS1L5DJ200S-C
	3.0	±125	50 ±5	610	322	408-1113-ND	17.10	12.14	10.55	DS1L5DJ300S-C
	3.5	±125	50 ±5	560	415	408-1114-ND	17.10	12.14	10.55	DS1L5DJ350S-C
	4.0	±125	50 ±5	480	436	408-1115-ND	17.10	12.14	10.55	DS1L5DJ400S-C
	4.5	±125	50 ±5	440	388	408-1116-ND	17.10	12.14	10.55	DS1L5DJ450S-C
	5.0	±125	50 ±5	590	341	408-1117-ND	17.10	12.14	10.55	DS1L5DJ500S-C
	6.0	±250	50 ±5	470	294	408-1118-ND	20.81	14.77	12.84	DS1L5VJ600S-C
	7.0	±250	50 ±5	400	200	408-1119-ND	20.81	14.77	12.84	DS1L5VJ700S-C
	8.0	±250	50 ±5	350	209	408-1120-ND	20.81	14.77	12.84	DS1L5VJ800S-C
	9.0	±250	50 ±5	310	181	408-1121-ND	20.81	14.77	12.84	DS1L5VJ900S-C
	10.0	±250	50 ±5	280	166	408-1122-ND	20.81	14.77	12.84	DS1L5VJA00S-C
	0.1	±25	50 ±5	3500	2200	408-1123-ND	10.13	7.18	6.25	DS1L5DJ010K-C
	0.5	±25	50 ±5	2700	2000	408-1124-ND	10.13	7.18	6.25	DS1L5DJ050K-C
	1.0	±50	50 ±5	2100	2000	408-1125-ND	10.13	7.18	6.25	DS1L5DJ100K-C
	1.3	±50	50 ±5	2300	1500	408-1126-ND	10.13	7.18	6.25	DS1L5DJ130K-C

Fig.	Delay (Ns)	Tolerance (pS)	Impedance (Ω)	Insertion Loss GHz (-3dB)	Return Loss GHz (-15dB)	Digi-Key Part No.	Price Each 1	10	50	Susumu Part No.
GL1L Series 16 Pin SOIC Delay Lines										
2	0.1	±50	50 ±5	8.41	3.67	408-1127-ND	19.35	13.73	11.94	GL1L5LS010S-C
	0.5	±50	50 ±5	3.86	1.80	408-1128-ND	19.35	13.73	11.94	GL1L5LS050S-C
	1.0	±50	50 ±5	2.92	1.43	408-1129-ND	19.35	13.73	11.94	GL1L5LS100S-C
	1.5	±50	50 ±5	1.99	1.87	408-1130-ND	19.35	13.73	11.94	GL1L5MS150S-C
	2.0	±50	50 ±5	1.78	1.48	408-1131-ND	19.35	13.73	11.94	GL1L5MS200S-C
	2.5	±50	50 ±5	1.51	1.58	408-1132-ND	19.35	13.73	11.94	GL1L5MS250S-C
	3.0	±50	50 ±5	1.15	1.64	408-1133-ND	19.35	13.73	11.94	GL1L5MS300S-C
	3.5	±50	50 ±5	1.11	1.25	408-1134-ND	19.35	13.73	11.94	GL1L5MS350S-C
	4.0	±50	50 ±5	0.93	1.35	408-1135-ND	19.35	13.73	11.94	GL1L5MS400S-C
	4.5	±50	50 ±5	0.69	1.34	408-1136-ND	19.35	13.73	11.94	GL1L5MS450S-C
	5.0	±50	50 ±5	0.60	1.59	408-1137-ND	19.35	13.73	11.94	GL1L5MS500S-C

Fig.	Delay (Ps)	Tolerance (pS)	Individual Impedance (Ω)	20 ~ 80% Risetime (ps)	Digi-Key Part No.	Price Each 1	10	50	Susumu Part No.
GL2L Series 16 Pin SOIC Delay Lines									
2	0.1	±50	50 ±5	<144	408-1138-ND	35.33	25.07	21.79	GL2L5LS010D-C
	0.5	±50	50 ±5	<200	408-1139-ND	35.33	25.07	21.79	GL2L5LS050D-C
	1.0	±50	50 ±5	<270	408-1140-ND	35.33	25.07	21.79	GL2L5LS100D-C
	1.5	±50	50 ±5	<340	408-1141-ND	35.33	25.07	21.79	GL2L5MS150D-C
	2.0	±50	50 ±5	<410	408-1142-ND	35.33	25.07	21.79	GL2L5MS200D-C
	2.5	±50	50 ±5	<480	408-1143-ND	35.33	25.07	21.79	GL2L5MS250D-C
	3.0	-0.5	50 ±5	<550	408-1144-ND	35.33	25.07	21.79	GL2L5MS300D-C
	3.5	±100	50 ±5	<620	408-1145-ND	35.33	25.07	21.79	GL2L5MS350D-C
	4.0	±100	50 ±5	<690	408-1146-ND	35.33	25.07	21.79	GL2L5MS400D-C
	4.5	±100	50 ±5	<760	408-1147-ND	35.33	25.07	21.79	GL2L5MS450D-C

Fig.	Delay (Ns)	Tolerance (pS)	Impedance (Ω)	Insertion Loss GHz (-3dB)	Return Loss GHz (-15dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 100	Susumu Part No.
CL1L Series 1210 Chip Delay Lines												
3	40	±10	50 ±5	11	4.6	408-1148-1-ND	8.21	5.83	5.07	408-1148-2-ND	441.00	CL1L5AT004L-T1
	60	±10	50 ±5	12.4	4.3	408-1149-1-ND	8.21	5.83	5.07	408-1149-2-ND	441.00	CL1L5AT006L-T1
	80	±10	50 ±5	11	7.4	408-1150-1-ND	8.21	5.83	5.07	408-1150-2-ND	441.00	CL1L5AT008L-T1
	100	±10	50 ±5	9.4	4.3	408-1151-1-ND	8.21	5.83	5.07	408-1151-2-ND	441.00	CL1L5AT010L-T1
	120	±10	50 ±5	8.4	6.3	408-1152-1-ND	8.21	5.83	5.07	408-1152-2-ND	441.00	CL1L5AT012L-T1
	140	±10	50 ±5	7.4	6.1	408-1153-1-ND	8.21	5.83	5.07	408-1153-2-ND	441.00	CL1L5AT014L-T1
	160	±10	50 ±5	6.6	5.9	408-1154-1-ND	8.21	5.83	5.07	408-1154-2-ND	441.00	CL1L5AT016L-T1
	180	±10	50 ±5	5.9	4.5	408-1155-1-ND	8.21	5.83	5.07	408-1155-2-ND	441.00	CL1L5AT018L-T1
	200	±10	50 ±5	5.5	5.4	408-1156-1-ND	8.21	5.83	5.07	408-1156-2-ND	441.00	CL1L5AT020L-T1
	220	±10	50 ±5	4.9	4.9	408-1157-1-ND	8.21	5.83	5.07	408-1157-2-ND	441.00	CL1L5AT022L-T1

Fig.	Delay (Ns)	Tolerance (pS)	Differential Impedance (Ω)	20 ~ 80% Risetime (ps)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 100	Susumu Part No.
CL2L Series 1210 Chip Delay Lines											
3	40	±10	100 ±10	<20	408-1158-1-ND	14.63	10.38	9.03	408-1158-2-ND	785.00	CL2LAAT004D-C-T1
	60	±10	100 ±10	<24	408-1159-1-ND	14.63	10.38	9.03	408-1159-2-ND	785.00	CL2LAAT006D-C-T1
	80	±10	100 ±10	<24	408-1160-1-ND	14.63	10.38	9.03	408-1160-2-ND	785.00	CL2LAAT008D-C-T1
	100	±10	100 ±10	<27	408-1161-1-ND	14.63	10.38	9.03	408-1161-2-ND	785.00	CL2LAAT010D-C-T1
	120	±10	100 ±10	<31	408-1162-1-ND	14.63	10.38	9.03	408-1162-2-ND	785.00	CL2LAAT012D-C-T1
	140	±10	100 ±10	<37	408-1163-1-ND	14.63	10.38	9.03	408-1163-2-ND	785.00	CL2LAAT014D-C-T1
	160	±10	100 ±10	<37	408-1164-1-ND	14.63	10.38	9.03	408-1164-2-ND	785.00	CL2LAAT016D-C-T1
	180	±10	100 ±10	<39	408-1165-1-ND	14.63	10.38	9.03	408-1165-2-ND	785.00	CL2LAAT018D-C-T1
	200	±10	100 ±10	<45	408-1166-1-ND	14.63	10.38	9.03	408-1166-2-ND	785.00	CL2LAAT020D-C-T1

Power Choke Coils

Specifications: • Operating Temperature: -55°C ~ 125°C **Features:** • High Power • High Saturation Current • Inductance Tolerance: 20% **Applications:** • DC/DC Converter for CPUs • Thin-type on-board Power Supply Module for the Exchanger

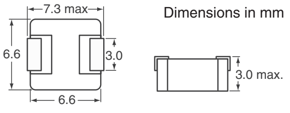

Dimensions in mm

L0 Inductance (µH) @ (0A)	Rdc (mΩ) Typical	Rdc (mΩ) Maximum	Heat Rating Current DC Amps. Idc Typical (A)	Saturation Current DC Amps. Isat Typical (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Susumu Part No.
0.10	1.5	1.7	32.5	60.0	408-1096-1-ND	1.40	1.20	.80	408-1096-2-ND	500.00	PCMC063T-R10MN
0.22	1.9	2.5	26.0	52.0	408-1097-1-ND	1.40	1.20	.80	408-1097-2-ND	500.00	PCMC063T-R22MN
0.33	3.5	3.9	20.0	30.0	408-1098-1-ND	1.40	1.20	.80	408-1098-2-ND	500.00	PCMC063T-R33MN
0.47	4.0	4.2	17.5	26.0	408-1099-1-ND	1.40	1.20	.80	408-1099-2-ND	500.00	PCMC063T-R47MN
0.68	5.0	5.5	15.5	25.0	408-1100-1-ND	1.40	1.20	.80	408-1100-2-ND	500.00	PCMC063T-R68MN
0.82	6.7	8.0	13.0	24.0	408-1101-1-ND	1.40	1.20	.80	408-1101-2-ND	500.00	PCMC063T-R82MN
1.00	9.0	10.0	11.0	22.0	408-1102-1-ND	1.40	1.20	.80	408-1102-2-ND	500.00	PCMC063T-1R0MN
1.20	10.0	12.0	10.0	20.0	408-1103-1-ND	1.40	1.20	.80	408-1103-2-ND	500.00	PCMC063T-1R2MN
1.50	14.0	15.0	9.0	18.0	408-1104-1-ND	1.40	1.20	.80	408-1104-2-ND	500.00	PCMC063T-1R5MN
2.20	18.0	20.0	8.0	14.0	408-1105-1-ND	1.75	1.50	1.00	408-1105-2-ND	625.00	PCMC063T-2R2MN
3.30	28.0	30.0	6.0	13.5	408-1106-1-ND	1.75	1.50	1.00	408-1106-2-ND	625.00	PCMC063T-3R3MN
4.70	37.0	40.0	5.5	10.0	408-1107-1-ND	1.75	1.50	1.00	408-1107-2-ND	625.00	PCMC063T-4R7MN

Thin Film Chip LC Filter

Electrical Specifications: **TBF-1608-245-R1:** • **Application:** Bluetooth, W-LAN • **F0:** 2450MHz • **Band:** 2400 ~ 2500MHz • **Insertion Loss:** 1.7dB @ 25°C, 1.9dB @ -40°C ~ 85°C • **Attenuation:** 20.0dB @ 1710 ~ 1910MHz, 30.0dB @4800 ~ 5000MHz, 30.0dB @ 7200 ~ 7500MHz • **VSWR in BW:** 2.0 max. • **Impedance:** 50Ω • **Power:** 500mW Max. **TBF-2012-245-R1:** • **Application:** Bluetooth, W-LAN • **F0:** 2450MHz • **Band:** 2400 ~ 2500MHz • **Insertion Loss:** 1.5dB @ 25°C; 1.6dB @ -40°C ~ 85°C • **Attenuation:** 30.0dB @ 880 ~ 960MHz, 25.0dB @1710 ~ 1910MHz, 30.0dB @ 4800 ~ 5000MHz, 30.0dB @ 7200 ~ 7500MHz • **VSWR in BW:** 2.0 max. • **Impedance:** 50Ω • **Power:** 500mW Max. **TBL-1608-245-M2:** • **Application:** Bluetooth, W-LAN • **F0:** 2450MHz • **Band:** 2400 ~ 2500MHz • **Unbalance Port Impedance:** 50Ω • **Balance Port Impedance:** 100Ω • **Phase:** 180±10 deg • **Insertion Loss:** 1.0dB max. @ 25°C • **VSWR in BW:** 2.0 max. • **Power:** 500mW max.

Series	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Susumu Part No.
TBF	408-1300-1-ND	.95	.58	.42	408-1300-2-ND	319.00/M	TBF-1608-245-R1N
	408-1301-1-ND	1.03	.63	.46	408-1301-2-ND	348.00/M	TBF-2012-245-R1
TBL	408-1302-1-ND	.58	.36	.26	408-1302-2-ND	196.00/M	TBL-1608-245-M2

TBF Series

Dimensions in mm

	TBF1608	TBF2012
L	1.6 ±0.1	2.0 ±0.1
W	0.8 ±0.1	1.25 ±0.1
T	0.4 max.	0.4 max.
a	0.6 ±0.1	0.75 ±0.1
b	0.4 ±0.1	0.4 ±0.1

	TBF1608	TBF2012
1	Input	Output
2	Output	Input
3	GND	GND
4	GND	GND

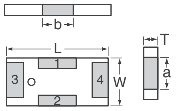

TBL Series

1	GND or DC feed
2	NC
3	Unbalance Port
4	Balance Port
5	NC
6	Balance Port

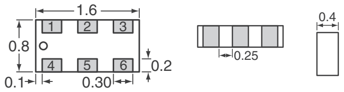

Thin Film Inductors

Features:

• Excellent inductance tolerances • Thin package profiles • Self resonant frequencies of more than 1GHz • High Q values • High rated currents

Series	Dimension - mm L	W	P	T
HPL1005	1.00 ±0.10	0.50 ±0.10	0.15 ±0.10	0.40 ±0.10
TFL0816	1.60 ±0.10	0.80 ±0.10	0.30 ±0.20	0.45 ±0.10

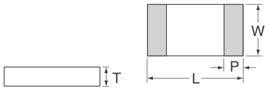

Inductance (nH)	Tolerance	Q Min.	Test Frequency (MHz)	S.R.F. Min. (GHz)	DCR Max. (Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Susumu Part No.
							HPL1005 Series 0402 Package							
1.0	±0.2nH	15	300	7	0.03	1800	408-1000-1-ND	.89	7.35	28.88	408-1000-2-ND	10,000	32.00/M	HPL1005-1N0
1.1	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1310-1-ND	.89	7.35	28.88	408-1310-2-ND	10,000	32.00/M	HPL1005-1N1
1.2	±0.2nH	15	300	7	0.08	1400	408-1001-1-ND	.89	7.35	28.88	408-1001-2-ND	10,000	32.00/M	HPL1005-1N2
1.3	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1311-1-ND	.89	7.35	28.88	408-1311-2-ND	10,000	32.00/M	HPL1005-1N3
1.5	±0.2nH	15	300	7	0.10	1200	408-1002-1-ND	.89	7.35	28.88	408-1002-2-ND	10,000	32.00/M	HPL1005-1N5
1.6	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1312-1-ND	.89	7.35	28.88	408-1312-2-ND	10,000	32.00/M	HPL1005-1N6
1.8	±0.2nH	15	300	7	0.14	1000	408-1003-1-ND	.89	7.35	28.88	408-1003-2-ND	10,000	32.00/M	HPL1005-1N8
2.0	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1313-1-ND	.89	7.35	28.88	408-1313-2-ND	10,000	32.00/M	HPL1005-2N0
2.2	±0.2nH	15	300	7	0.15	900	408-1004-1-ND	.89	7.35	28.88	408-1004-2-ND	10,000	32.00/M	HPL1005-2N2
2.4	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1314-1-ND	.89	7.35	28.88	408-1314-2-ND	10,000	32.00/M	HPL1005-2N4
2.7	±0.2nH	13	300	7	0.23	750	408-1005-1-ND	.89	7.35	28.88	408-1005-2-ND	10,000	32.00/M	HPL1005-2N7
3.0	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1315-1-ND	.89	7.35	28.88	408-1315-2-ND	10,000	32.00/M	HPL1005-3N0
3.3	±0.2nH	13	300	7	0.25	700	408-1006-1-ND	.89	7.35	28.88	408-1006-2-ND	10,000	32.00/M	HPL1005-3N3
3.6	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1316-1-ND	.89	7.35	28.88	408-1316-2-ND	10,000	32.00/M	HPL1005-3N6
3.9	±0.2nH	13	300	7	0.30	620	408-1007-1-ND	.89	7.35	28.88	408-1007-2-ND	10,000	32.00/M	HPL1005-3N9
4.3	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1317-1-ND	.89	7.35	28.88	408-1317-2-ND	10,000	32.00/M	HPL1005-4N3
4.7	±0.2nH	13	300	6	0.50	500	408-1008-1-ND	.89	7.35	28.88	408-1008-2-ND	10,000	32.00/M	HPL1005-4N7
5.1	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1318-1-ND	.89	7.35	28.88	408-1318-2-ND	10,000	32.00/M	HPL1005-5N1
5.6	±0.2nH	10	300	5.5	0.70	450	408-1009-1-ND	.89	7.35	28.88	408-1009-2-ND	10,000	32.00/M	HPL1005-5N6
6.2	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1319-1-ND	.89	7.35	28.88	408-1319-2-ND	10,000	32.00/M	HPL1005-6N2
6.8	±0.2nH	10	300	4.5	0.80	430	408-1010-1-ND	.89	7.35	28.88	408-1010-2-ND	10,000	32.00/M	HPL1005-6N8
7.5	±0.2nH	15 ~ 20	300	4.0 ~ 7.0	0.01 ~ 0.4	340 ~ 1800	408-1320-1-ND	.89	7.35	28.88	408-1320-2-ND	10,000	32.00/M	HPL1005-7N5
8.2	±0.2nH	10	300	4	1.10	340	408-1011-1-ND	.89	7.35	28.88	408-1011-2-ND	10,000	32.00/M	HPL1005-8N2
10	±2%	10	300	3.5	1.40	300	408-1012-1-ND	.89	7.35	28.88	408-1012-2-ND	10,000	32.00/M	HPL1005-10N
11	±2%	13 ~ 15	300	3.5	0.5 ~ 0.8	240 ~ 300	408-1308-1-ND	.89	7.35	28.88	408-1308-2-ND	10,000	32.00/M	HPL1005-11N
12	±2%	10	300	3.5	1.65	270	408-1013-1-ND	.89	7.35	28.88	408-1013-2-ND	10,000	32.00/M	HPL1005-12N
13	±2%	13 ~ 15	300	3.5	0.5 ~ 0.8	240 ~ 300	408-1309-1-ND	.89	7.35	28.88	408-1309-2-ND	10,000	32.00/M	HPL1005-13N
15	±2%	10	300	3.5	2.25	240	408-1014-1-ND	.89	7.35	28.88	408-1014-2-ND	10,000	32.00/M	HPL1005-15N
							TFL0816 Series 0603 Package							
1.0	±0.2nH	20	300	6	0.10	1000	408-1025-1-ND	1.70	14.00	55.00	408-1025-2-ND	5,000	60.00/M	TFL0816-1N0
1.2	±0.2nH	20	300	6	0.10	1000	408-1026-1-ND	1.70	14.00	55.00	408-1026-2-ND	5,000	60.00/M	TFL0816-1N2
1.5	±0.2nH	20	300	6	0.10	1000	408-1027-1-ND	1.70	14.00	55.00	408-1027-2-ND	5,000	60.00/M	TFL0816-1N5
1.8	±0.2nH	20	300	6	0.15	800	408-1028-1-ND	1.70	14.00	55.00	408-1028-2-ND	5,000	60.00/M	TFL0816-1N8
2.2	±0.2nH	20	300	6	0.15	800	408-1029-1-ND	1.70	14.00	55.00	408-1029-2-ND	5,000	60.00/M	TFL0816-2N2
2.7	±0.2nH	20	300	6	0.15	800	408-1030-1-ND	1.70	14.00	55.00	408-1030-2-ND	5,000	60.00/M	TFL0816-2N7
3.3	±0.2nH	20	300	6	0.20	700	408-1031-1-ND	1.70	14.00	55.00	408-1031-2-ND	5,000	60.00/M	TFL0816-3N3
3.9	±0.2nH	20	300	6	0.20	700	408-1032-1-ND	1.70	14.00	55.00	408-1032-2-ND	5,000	60.00/M	TFL0816-3N9
4.7	±0.2nH	20	300	5	0.25	600	408-1033-1-ND	1.70	14.00	55.00	408-1033-2-ND	5,000	60.00/M	TFL0816-4N7
5.6	±0.2nH	15	300	5	0.50	400	408-1034-1-ND	1.70	14.00	55.00	408-1034-2-ND	5,000	60.00/M	TFL0816-5N6
6.8	±0.2nH	15	300	5	0.50	400	408-1035-1-ND	1.70	14.00	55.00	408-1035-2-ND	5,000	60.00/M	TFL0816-6N8
8.2	±0.2nH	15	300	4	0.50	400	408-1036-1-ND	1.70	14.00	55.00	408-1036-2-ND	5,000	60.00/M	TFL0816-8N2
10	±2%	15	300	4	1.00	300	408-1037-1-ND	1.70	14.00	55.00	408-1037-2-ND	5,000	60.00/M	TFL0816-10N
12	±2%	15	300	3	1.00	300	408-1038-1-ND	1.70	14.00	55.00	408-1038-2-ND	5,000	60.00/M	TFL0816-12N
15	±2%	15	300	3	1.00	300	408-1039-1-ND	1.70	14.00	55.00	408-1039-2-ND	5,000	60.00/M	TFL0816-15N
18	±2%	15	300	2	1.50	250	408-1040-1-ND	1.70	14.00	55.00	408-1040-2-ND	5,000	60.00/M	TFL0816-18N
22	±2%	15	300	2	1.50	250	408-1041-1-ND	1.70	14.00	55.00	408-1041-2-ND	5,000	60.00/M	TFL0816-22N
27	±2%	15	300	2	2.00	200	408-1042-1-ND	1.70	14.00	55.00	408-1042-2-ND	5,000	60.00/M	TFL0816-27N
33	±2%	15	200	1.5	2.00	200	408-1043-1-ND	1.70	14.00	55.00	408-1043-2-ND	5,000	60.00/M	TFL0816-33N
39	±2%	15	200	1.5	3.00	180	408-1044-1-ND	1.70	14.00	55.00	408-1044-2-ND	5,000	60.00/M	TFL0816-39N
47	±2%	15	200	1.5	3.00	180	408-1045-1-ND	1.70	14.00	55.00	408-1045-2-ND	5,000	60.00/M	TFL0816-47N
56	±2%	15	200	1	4.00	150	408-1046-1-ND	1.70	14.00	55.00	408-1046-2-ND	5,000	60.00/M	TFL0816-56N
68	±2%	15	200	1	4.50	140	408-1047-1-ND	1.70	14.00	55.00	408-1047-2-ND	5,000	60.00/M	TFL0816-68N
82	±2%	10	200	1	6.00	120	408-1048-1-ND	1.70	14.00	55.00	408-1048-2-ND	5,000	60.00/M	TFL0816-82N
100	±2%	10	200	1	8.50	100	408-1049-1-ND	1.70	14.00	55.00	408-1049-2-ND	5,000	60.00/M	TFL0816-R10

SSMH1005-KIT-ND	HPL1005 Series 0402 SMD Thin Film Inductor Kit, 40 each of 28 values (1.0nH ~ 15nH)	**$72.15**
SSMT0816-KIT-ND	TFL0816 Series 0603 SMD Thin Film Inductor Kit, 40 each of 25 values (1.0nH ~ 100nH)	**$90.65**

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Panasonic® Voltage Step-Up Coil ELT-3KN, ELT-5KN and ELT-5KT Types

High inductance Voltage Step-up coil chip series for piezo-electric buzzer and DC-DC circuit of EL **Features:** • Small and thin • High inductance **Recommended Applications:** • Watches, Toys, Camera, Electronic thermometers, Pagers, PHS, Portable telephones **Operating Temperature:** -20°C ~ 85°C (-20°C ~ 105°C for the 5KT Type).

Fig. 1

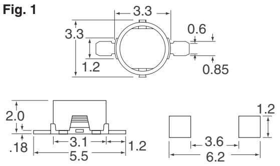

Fig. 2

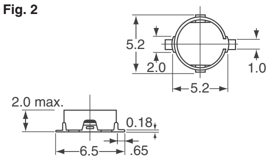

Fig. 3

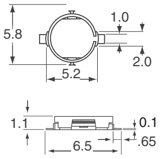

Fig.	Inductance @ 100kHz (µH)	Rated Tolerance (%)	Current mA	RDC Ohm	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
						1	10	100		Qty.	Pricing	
3KN Type												
1	560	—	45	15	PCD1397CT-ND	2.10	1.74	1.37	PCD1397TR-ND	1,000	743.00	ELT-3KN128B
	1.0	—	30	35	PCD1398CT-ND	2.10	1.74	1.37	PCD1398TR-ND	1,000	743.00	ELT-3KN104B
	1.0	—	40	23	PCD1399CT-ND	2.10	1.74	1.37	PCD1399TR-ND	1,000	743.00	ELT-3KN121B
	1.0	—	30	25	PCD1400CT-ND	2.10	1.74	1.37	PCD1400TR-ND	1,000	743.00	ELT-3KN123B
	2.0	—	20	44	PCD1401CT-ND	2.10	1.74	1.37	PCD1401TR-ND	1,000	743.00	ELT-3KN131B
	2.5	—	20	64	PCD1402CT-ND	2.10	1.74	1.37	PCD1402TR-ND	1,000	743.00	ELT-3KN118B
	4.0	—	15	85	PCD1403CT-ND	2.10	1.74	1.37	PCD1403TR-ND	1,000	743.00	ELT-3KN124B
5KN Type												
2	220.0	±10	100	2.4	PCD1550CT-ND	2.23	1.84	1.45	PCD1550TR-ND	4,000	788.00/M	ELT-5KN127C
	560.0	±10	60	6.0	PCD1551CT-ND	2.23	1.84	1.45	PCD1551TR-ND	4,000	788.00/M	ELT-5KN118C
	390	±10	120	2.8	PCD1552CT-ND	2.23	1.84	1.45	PCD1552TR-ND	4,000	788.00/M	ELT-5KN131C
	1000	±10	55	11.5	PCD1553CT-ND	2.23	1.84	1.45	PCD1553TR-ND	4,000	788.00/M	ELT-5KN134C
	1500	±10	40	20.0	PCD1554CT-ND	2.23	1.84	1.45	PCD1554TR-ND	4,000	788.00/M	ELT-5KN135C
	2700	±10	35	33.0	PCD1555CT-ND	2.23	1.84	1.45	PCD1555TR-ND	4,000	788.00/M	ELT-5KN120C
5KT Type												
3	4.7	±20	950	0.20	PCD1557CT-ND	2.44	2.02	1.59	PCD1557TR-ND	5,000	863.00/M	ELT-5KT4R7MA
	6.8	±20	760	0.30	PCD1558CT-ND	2.44	2.02	1.59	PCD1558TR-ND	5,000	863.00/M	ELT-5KT6R8MA
	10.0	±20	680	0.36	PCD1559CT-ND	2.44	2.02	1.59	—	—	—	ELT-5KT100MA
	15.0	±15	510	0.58	PCD1560CT-ND	2.44	2.02	1.59	PCD1560TR-ND	5,000	863.00/M	ELT-5KT150LA
	22.0	±15	420	0.90	PCD1561CT-ND	2.44	2.02	1.59	PCD1561TR-ND	5,000	863.00/M	ELT-5KT220LA
	33.0	±15	360	1.20	PCD1562CT-ND	2.44	2.02	1.59	PCD1562TR-ND	5,000	863.00/M	ELT-5KT330LA
	47.0	±15	300	1.70	PCD1563CT-ND	2.44	2.02	1.59	PCD1563TR-ND	5,000	863.00/M	ELT-5KT470LA
	68.0	±15	260	2.60	PCD1564CT-ND	2.44	2.02	1.59	PCD1564TR-ND	5,000	863.00/M	ELT-5KT680LA
	100.0	±15	190	4.30	PCD1565CT-ND	2.44	2.02	1.59	PCD1565TR-ND	5,000	863.00/M	ELT-5KT101LA
5KT Type - RoHS Compliant												
3	3.3	±20	1000	0.17	PCD2024CT-ND	1.28	1.05	.83	PCD2024TR-ND	5,000	450.00/M	ELT-5KT3R3MB
	4.7	±20	950	0.20	PCD2025CT-ND	1.28	1.05	.83	PCD2025TR-ND	5,000	450.00/M	ELT-5KT4R7MB
	6.8	±20	760	0.30	PCD2026CT-ND	1.28	1.05	.83	PCD2026TR-ND	5,000	450.00/M	ELT-5KT6R8MB
	10.0	±20	680	0.36	PCD2027CT-ND	1.28	1.05	.83	PCD2027TR-ND	5,000	450.00/M	ELT-5KT100MC
	15.0	±15	510	0.58	PCD2028CT-ND	1.28	1.05	.83	PCD2028TR-ND	5,000	450.00/M	ELT-5KT150LB
	22.0	±15	420	0.90	PCD2029CT-ND	1.28	1.05	.83	PCD2029TR-ND	5,000	450.00/M	ELT-5KT220LB
	33.0	±15	360	1.20	PCD2030CT-ND	1.28	1.05	.83	PCD2030TR-ND	5,000	450.00/M	ELT-5KT330LB
	47.0	±15	300	1.70	PCD2031CT-ND	1.28	1.05	.83	PCD2031TR-ND	5,000	450.00/M	ELT-5KT470LB
	68.0	±15	260	2.60	PCD2032CT-ND	1.28	1.05	.83	PCD2032TR-ND	5,000	450.00/M	ELT-5KT680LB
	100.0	±15	190	4.30	PCD2033CT-ND	1.28	1.05	.83	PCD2033TR-ND	5,000	450.00/M	ELT-5KT101LB

SMD Choke Coils

ELC-3N Type

RoHS COMPLIANT

Features: • Low DC resistance and large current capability • Shock resistant
Recommended Applications: • DC/DC converter circuitry for computer peripherals and cellular hand sets • Chopper circuit decoupling chokes in DC/DC converter circuitry
Rated Current: This indicates the value of current when the inductance is 70% of nominal value and case temperature has risen Δt=45°C (at 20°C)
Operating Temperature: -40 ~ 105°C (Including self-temperature rise)

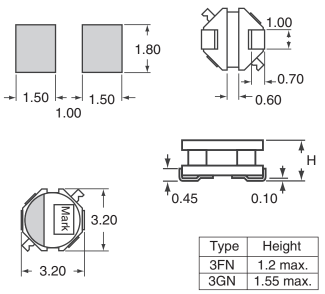

Type	Height
3FN	1.2 max.
3GN	1.55 max.

Inductance at 100kHz (µH)	Tolerance (%)	RDC at 20°C Tol. ±20%	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 2,000	Panasonic Part No.
					1	10	100			
ELC-3FN										
1.0	±30	.080	1400	PCD2034CT-ND	.75	.62	.49	PCD2034TR-ND	266.00/M	ELC-3FN1R0N
1.8	±30	.110	1100	PCD2035CT-ND	.75	.62	.49	PCD2035TR-ND	266.00/M	ELC-3FN1R8N
2.2	±30	.120	1000	PCD2036CT-ND	.75	.62	.49	PCD2036TR-ND	266.00/M	ELC-3FN2R2N
2.7	±30	.150	950	PCD2037CT-ND	.75	.62	.49	PCD2037TR-ND	266.00/M	ELC-3FN2R7N
4.7	±30	.280	750	PCD2038CT-ND	.75	.62	.49	PCD2038TR-ND	266.00/M	ELC-3FN4R7N
5.6	±30	.310	680	PCD2039CT-ND	.75	.62	.49	PCD2039TR-ND	266.00/M	ELC-3FN5R6N
6.8	±30	.360	620	PCD2040CT-ND	.75	.62	.49	PCD2040TR-ND	266.00/M	ELC-3FN6R8N
7.5	±30	.390	600	PCD2041CT-ND	.75	.62	.49	PCD2041TR-ND	266.00/M	ELC-3FN7R5N
10.0	±20	.430	530	PCD2042CT-ND	.75	.62	.49	PCD2042TR-ND	266.00/M	ELC-3FN100M
15.0	±20	1.000	370	PCD2043CT-ND	.75	.62	.49	PCD2043TR-ND	266.00/M	ELC-3FN150M
22.0	±20	1.180	330	PCD2044CT-ND	.75	.62	.49	PCD2044TR-ND	266.00/M	ELC-3FN220M
33.0	±20	1.900	260	PCD2045CT-ND	.75	.62	.49	PCD2045TR-ND	266.00/M	ELC-3FN330M
47.0	±20	2.450	230	PCD2046CT-ND	.75	.62	.49	PCD2046TR-ND	266.00/M	ELC-3FN470M
68.0	±20	4.200	170	PCD2047CT-ND	.75	.62	.49	PCD2047TR-ND	266.00/M	ELC-3FN680M
ELC-3GN										
1.0	±30	.64	1300	PCD2048CT-ND	.79	.65	.51	PCD2048TR-ND	278.00/M	ELC-3GN1R0N
1.6	±30	.83	1200	PCD2049CT-ND	.79	.65	.51	PCD2049TR-ND	278.00/M	ELC-3GN1R6N
2.2	±30	.100	1000	PCD2050CT-ND	.79	.65	.51	PCD2050TR-ND	278.00/M	ELC-3GN2R2N
3.3	±30	.130	970	PCD2051CT-ND	.79	.65	.51	PCD2051TR-ND	278.00/M	ELC-3GN3R3N
4.7	±30	.200	760	PCD2052CT-ND	.79	.65	.51	PCD2052TR-ND	278.00/M	ELC-3GN4R7N
6.8	±30	.250	680	PCD2053CT-ND	.79	.65	.51	PCD2053TR-ND	278.00/M	ELC-3GN6R8N
8.2	±30	.410	540	PCD2054CT-ND	.79	.65	.51	PCD2054TR-ND	278.00/M	ELC-3GN8R2N
10.0	±20	.430	530	PCD2055CT-ND	.79	.65	.51	PCD2055TR-ND	278.00/M	ELC-3GN100M
15.0	±20	.600	430	PCD2056CT-ND	.79	.65	.51	PCD2056TR-ND	278.00/M	ELC-3GN150M
22.0	±20	.950	330	PCD2057CT-ND	.79	.65	.51	PCD2057TR-ND	278.00/M	ELC-3GN220M
33.0	±20	1.400	280	PCD2058CT-ND	.79	.65	.51	PCD2058TR-ND	278.00/M	ELC-3GN330M
47.0	±20	1.950	240	PCD2059CT-ND	.79	.65	.51	PCD2059TR-ND	278.00/M	ELC-3GN470M
68.0	±20	3.000	190	PCD2060CT-ND	.79	.65	.51	PCD2060TR-ND	278.00/M	ELC-3GN680M

ELL-8UV Type

RoHS COMPLIANT

Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δt=45°C lower at D.C. superposition (at 20°C) **Operating Temperature**: -40 ~ 105°C (Including self-temperature rise)

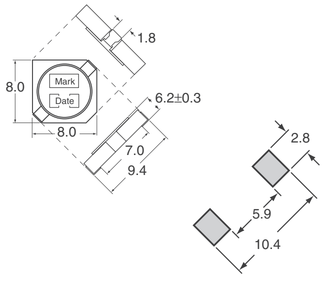

Inductance at 100kHz (µH)	Tolerance (%)	Rated Current mA	RDC at 20°C Tol. ±20%	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
					1	10	100			
1.3	±30	5.40	7.80	PCD2132CT-ND	1.86	1.54	1.21	PCD2132TR-ND	328.50	ELL-8UV1R3N
2.0	±30	5.10	8.70	PCD2133CT-ND	1.86	1.54	1.21	PCD2133TR-ND	328.50	ELL-8UV2R0N
2.7	±30	4.75	10.00	PCD2134CT-ND	1.86	1.54	1.21	PCD2134TR-ND	328.50	ELL-8UV2R7N
4.7	±30	4.20	12.00	PCD2135CT-ND	1.86	1.54	1.21	PCD2135TR-ND	328.50	ELL-8UV4R7N
6.2	±30	3.80	16.00	PCD2183CT-ND	1.86	1.54	1.21	PCD2183TR-ND	328.50	ELL-8UV6R2N
10.0	±20	3.00	22.00	PCD2136CT-ND	1.86	1.54	1.21	PCD2136TR-ND	328.50	ELL-8UV100M
15.0	±20	2.50	26.00	PCD2137CT-ND	1.86	1.54	1.21	PCD2137TR-ND	328.50	ELL-8UV150M
22.0	±20	2.05	40.00	PCD2138CT-ND	1.86	1.54	1.21	PCD2138TR-ND	328.50	ELL-8UV220M
27.0	±20	1.80	53.00	PCD2139CT-ND	1.86	1.54	1.21	PCD2139TR-ND	328.50	ELL-8UV270M
33.0	±20	1.65	78.00	PCD2184CT-ND	1.86	1.54	1.21	PCD2184TR-ND	328.50	ELL-8UV330M
39.0	±20	1.50	90.00	PCD2140CT-ND	1.86	1.54	1.21	PCD2140TR-ND	328.50	ELL-8UV390M
47.0	±20	1.25	100.00	PCD2141CT-ND	1.86	1.54	1.21	PCD2141TR-ND	328.50	ELL-8UV470M
68.0	±20	1.10	130.00	PCD2142CT-ND	1.86	1.54	1.21	PCD2142TR-ND	328.50	ELL-8UV680M
100.0	±20	0.82	160.00	PCD2143CT-ND	1.86	1.54	1.21	PCD2143TR-ND	328.50	ELL-8UV101M
220.0	±20	0.66	370.00	PCD2185CT-ND	1.86	1.54	1.21	PCD2185TR-ND	328.50	ELL-8UV221M

(Continued)

Panasonic® SMD Choke Coils *(Cont.)*

ELL6RH, ELL6SH and ELL6UH Types

Magnetic Shielded Series

Features:
- Thin type (ELL6RH – 2.5mm height, ELL6SH – 3.0mm height, ELL6UH – 4.7mm height)
- Higher reliability in mounting by separated user terminal and internal connection
- High current

Recommended Applications:
- Video, audio, mobile communications, electric battery driving equipment
- Choke coils for chopper circuit, and decoupling choke in DC/DC convertor circuit

Cautions for Use:
- DC/DC convertor — Chopper type: 1W maximum
- Operating Temperature: 105°C maximum (including self-temperature rise)

Rated Current:
ELL6RH and **ELL6SH**: This indicates the value of current when the inductance is 80% more than nominal value and temperature rising Δt=45°C lower at D.C. superposition (at 20°C)
ELL6UH: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δt=45°C lower at D.C. superposition. (20°C)

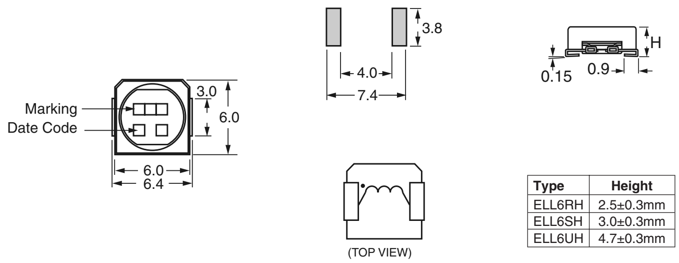

Type	Height
ELL6RH	2.5±0.3mm
ELL6SH	3.0±0.3mm
ELL6UH	4.7±0.3mm

Inductance at 100kHz Tolerance ±20%	RDC at 20°C Tolerance ±20%	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Panasonic Part No.
ELL6RH Series									
1.0µH	0.019Ω	3000	PCD1337CT-ND◆	1.22	1.01	.80	PCD1337TR-ND◆	432.00	ELL-6RH1R0M
1.5µH	0.024Ω	2400	PCD1338CT-ND	1.22	1.01	.80	PCD1338TR-ND	432.00	ELL-6RH1R5M
2.7µH	0.039Ω	1800	PCD1339CT-ND◆	1.22	1.01	.80	PCD1339TR-ND◆	432.00	ELL-6RH2R7M
3.3µH	0.044Ω	1600	PCD1340CT-ND◆	1.22	1.01	.80	PCD1340TR-ND◆	432.00	ELL-6RH3R3M
5.1µH	0.056Ω	1550	PCD1341CT-ND◆	1.22	1.01	.80	PCD1341TR-ND◆	432.00	ELL-6RH5R1M
6.2µH	0.062Ω	1400	PCD1342CT-ND◆	1.22	1.01	.80	PCD1342TR-ND◆	432.00	ELL-6RH6R2M
7.5µH	0.080Ω	1250	PCD1343CT-ND	1.22	1.01	.80	PCD1343TR-ND	432.00	ELL-6RH7R5M
8.2µH	0.087Ω	1200	PCD1344CT-ND	1.22	1.01	.80	PCD1344TR-ND	432.00	ELL-6RH8R2M
10µH	0.095Ω	1100	PCD1345CT-ND◆	1.22	1.01	.80	PCD1345TR-ND◆	432.00	ELL-6RH100M
12µH	0.13Ω	1000	PCD1346CT-ND	1.22	1.01	.80	PCD1346TR-ND	432.00	ELL-6RH120M
15µH	0.15Ω	850	PCD1347CT-ND◆	1.22	1.01	.80	PCD1347TR-ND◆	432.00	ELL-6RH150M
18µH	0.17Ω	800	PCD1348CT-ND	1.22	1.01	.80	PCD1348TR-ND	432.00	ELL-6RH180M
22µH	0.22Ω	700	PCD1349CT-ND◆	1.22	1.01	.80	PCD1349TR-ND◆	432.00	ELL-6RH220M
27µH	0.26Ω	650	PCD1350CT-ND◆	1.22	1.01	.80	PCD1350TR-ND◆	432.00	ELL-6RH270M
33µH	0.38Ω	600	PCD1351CT-ND◆	1.22	1.01	.80	PCD1351TR-ND◆	432.00	ELL-6RH330M
39µH	0.41Ω	550	PCD1352CT-ND	1.22	1.01	.80	PCD1352TR-ND	432.00	ELL-6RH390M
47µH	0.48Ω	500	PCD1353CT-ND◆	1.22	1.01	.80	PCD1353TR-ND◆	432.00	ELL-6RH470M
56µH	0.54Ω	450	PCD1354CT-ND	1.22	1.01	.80	PCD1354TR-ND	432.00	ELL-6RH560M
68µH	0.77Ω	400	PCD1355CT-ND◆	1.22	1.01	.80	PCD1355TR-ND◆	432.00	ELL-6RH680M
82µH	0.87Ω	350	PCD1356CT-ND	1.22	1.01	.80	PCD1356TR-ND	432.00	ELL-6RH820M
100µH	1.00Ω	300	PCD1357CT-ND◆	1.22	1.01	.80	PCD1357TR-ND◆	432.00	ELL-6RH101M
120µH	1.50Ω	280	PCD1358CT-ND	1.22	1.01	.80	PCD1358TR-ND	432.00	ELL-6RH121M
150µH	1.80Ω	250	PCD1359CT-ND◆	1.22	1.01	.80	PCD1359TR-ND◆	432.00	ELL-6RH151M
180µH	2.00Ω	230	PCD1360CT-ND	1.22	1.01	.80	PCD1360TR-ND	432.00	ELL-6RH181M
220µH	2.30Ω	200	PCD1361CT-ND◆	1.22	1.01	.80	PCD1361TR-ND◆	432.00	ELL-6RH221M
ELL6SH Series									
1.0µH	0.019Ω	3400	PCD1362CT-ND◆	1.20	.99	.78	PCD1362TR-ND◆	422.00	ELL-6SH1R0M
1.5µH	0.024Ω	3200	PCD1363CT-ND◆	1.20	.99	.78	PCD1363TR-ND◆	422.00	ELL-6SH1R5M
2.7µH	0.031Ω	2400	PCD1364CT-ND◆	1.20	.99	.78	PCD1364TR-ND◆	422.00	ELL-6SH2R7M
3.3µH	0.034Ω	2200	PCD1365CT-ND◆	1.20	.99	.78	PCD1365TR-ND◆	422.00	ELL-6SH3R3M
4.7µH	0.042Ω	2000	PCD1366CT-ND◆	1.20	.99	.78	PCD1366TR-ND◆	422.00	ELL-6SH4R7M
5.6µH	0.049Ω	1800	PCD1367CT-ND◆	1.20	.99	.78	PCD1367TR-ND◆	422.00	ELL-6SH5R6M
6.8µH	0.052Ω	1500	PCD1368CT-ND◆	1.20	.99	.78	PCD1368TR-ND◆	422.00	ELL-6SH6R8M
8.2µH	0.061Ω	1400	PCD1369CT-ND	1.20	.99	.78	PCD1369TR-ND	422.00	ELL-6SH8R2M
10µH	0.065Ω	1300	PCD1370CT-ND◆	1.20	.99	.78	PCD1370TR-ND◆	422.00	ELL-6SH100M
12µH	0.071Ω	1200	PCD1371CT-ND◆	1.20	.99	.78	PCD1371TR-ND◆	422.00	ELL-6SH120M
15µH	0.096Ω	1100	PCD1372CT-ND◆	1.20	.99	.78	PCD1372TR-ND◆	422.00	ELL-6SH150M
18µH	0.13Ω	1000	PCD1373CT-ND◆	1.20	.99	.78	PCD1373TR-ND◆	422.00	ELL-6SH180M
22µH	0.14Ω	900	PCD1374CT-ND◆	1.20	.99	.78	PCD1374TR-ND◆	422.00	ELL-6SH220M
27µH	0.16Ω	800	PCD1375CT-ND	1.20	.99	.78	PCD1375TR-ND	422.00	ELL-6SH270M
33µH	0.18Ω	700	PCD1376CT-ND◆	1.20	.99	.78	PCD1376TR-ND◆	422.00	ELL-6SH330M
39µH	0.24Ω	650	PCD1377CT-ND◆	1.20	.99	.78	PCD1377TR-ND◆	422.00	ELL-6SH390M
47µH	0.27Ω	600	PCD1378CT-ND◆	1.20	.99	.78	PCD1378TR-ND◆	422.00	ELL-6SH470M
56µH	0.29Ω	550	PCD1379CT-ND	1.20	.99	.78	PCD1379TR-ND	422.00	ELL-6SH560M
68µH	0.52Ω	500	PCD1380CT-ND◆	1.20	.99	.78	PCD1380TR-ND◆	422.00	ELL-6SH680M
82µH	0.60Ω	450	PCD1381CT-ND	1.20	.99	.78	PCD1381TR-ND	422.00	ELL-6SH820M
100µH	0.68Ω	400	PCD1382CT-ND◆	1.20	.99	.78	PCD1382TR-ND◆	422.00	ELL-6SH101M
120µH	0.75Ω	370	PCD1383CT-ND◆	1.20	.99	.78	PCD1383TR-ND◆	422.00	ELL-6SH121M
150µH	0.86Ω	350	PCD1384CT-ND◆	1.20	.99	.78	PCD1384TR-ND◆	422.00	ELL-6SH151M
180µH	1.30Ω	300	PCD1385CT-ND◆	1.20	.99	.78	PCD1385TR-ND◆	422.00	ELL-6SH181M
220µH	1.40Ω	280	PCD1386CT-ND◆	1.20	.99	.78	PCD1386TR-ND◆	422.00	ELL-6SH221M
270µH	2.40Ω	260	PCD1387CT-ND	1.20	.99	.78	PCD1387TR-ND	422.00	ELL-6SH271M
330µH	2.70Ω	240	PCD1388CT-ND◆	1.20	.99	.78	PCD1388TR-ND◆	422.00	ELL-6SH331M
390µH	2.80Ω	210	PCD1389CT-ND◆	1.20	.99	.78	PCD1389TR-ND◆	422.00	ELL-6SH391M
470µH	3.20Ω	200	PCD1390CT-ND◆	1.20	.99	.78	PCD1390TR-ND◆	422.00	ELL-6SH471M
560µH	3.70Ω	180	PCD1391CT-ND◆	1.20	.99	.78	PCD1391TR-ND◆	422.00	ELL-6SH561M
680µH	4.30Ω	160	PCD2182CT-ND◆	1.20	.99	.78	PCD2182TR-ND◆	422.00	ELL-6SH681M
ELL6UH Series — RoHS Compliant									
10µH	0.063Ω	1800	PCD2107CT-ND	.86	.71	.56	PCD2107TR-ND	302.00	ELL-6UH100M
12µH	0.071Ω	1700	PCD2108CT-ND	.86	.71	.56	PCD2108TR-ND	302.00	ELL-6UH120M
15µH	0.079Ω	1600	PCD2109CT-ND	.86	.71	.56	PCD2109TR-ND	302.00	ELL-6UH150M
18µH	0.088Ω	1400	PCD2110CT-ND	.86	.71	.56	PCD2110TR-ND	302.00	ELL-6UH180M
22µH	0.098Ω	1300	PCD2111CT-ND	.86	.71	.56	PCD2111TR-ND	302.00	ELL-6UH220M
27µH	0.110Ω	1200	PCD2112CT-ND	.86	.71	.56	PCD2112TR-ND	302.00	ELL-6UH270M
33µH	0.130Ω	1100	PCD2113CT-ND	.86	.71	.56	PCD2113TR-ND	302.00	ELL-6UH330M
39µH	0.150Ω	1000	PCD2114CT-ND	.86	.71	.56	PCD2114TR-ND	302.00	ELL-6UH390M
47µH	0.160Ω	900	PCD2115CT-ND	.86	.71	.56	PCD2115TR-ND	302.00	ELL-6UH470M
56µH	0.210Ω	800	PCD2116CT-ND	.86	.71	.56	PCD2116TR-ND	302.00	ELL-6UH560M
68µH	0.230Ω	700	PCD2117CT-ND	.86	.71	.56	PCD2117TR-ND	302.00	ELL-6UH680M
82µH	0.260Ω	650	PCD2118CT-ND	.86	.71	.56	PCD2118TR-ND	302.00	ELL-6UH820M
100µH	0.360Ω	600	PCD2119CT-ND	.86	.71	.56	PCD2119TR-ND	302.00	ELL-6UH101M
120µH	0.480Ω	580	PCD2120CT-ND	.86	.71	.56	PCD2120TR-ND	302.00	ELL-6UH121M
150µH	0.680Ω	500	PCD2121CT-ND	.86	.71	.56	PCD2121TR-ND	302.00	ELL-6UH151M
180µH	0.750Ω	470	PCD2122CT-ND	.86	.71	.56	PCD2122TR-ND	302.00	ELL-6UH181M
220µH	0.840Ω	410	PCD2123CT-ND	.86	.71	.56	PCD2123TR-ND	302.00	ELL-6UH221M
270µH	1.200Ω	370	PCD2124CT-ND	.86	.71	.56	PCD2124TR-ND	302.00	ELL-6UH271M
330µH	1.360Ω	330	PCD2125CT-ND	.86	.71	.56	PCD2125TR-ND	302.00	ELL-6UH331M
390µH	1.500Ω	300	PCD2126CT-ND	.86	.71	.56	PCD2126TR-ND	302.00	ELL-6UH391M
470µH	1.680Ω	270	PCD2127CT-ND	.86	.71	.56	PCD2127TR-ND	302.00	ELL-6UH471M
560µH	2.530Ω	260	PCD2128CT-ND	.86	.71	.56	PCD2128TR-ND	302.00	ELL-6UH561M
680µH	2.830Ω	240	PCD2129CT-ND	.86	.71	.56	PCD2129TR-ND	302.00	ELL-6UH681M
820µH	3.140Ω	200	PCD2130CT-ND	.86	.71	.56	PCD2130TR-ND	302.00	ELL-6UH821M
1000µH	3.670Ω	180	PCD2131CT-ND	.86	.71	.56	PCD2131TR-ND	302.00	ELL-6UH102M

◆ ***RoHS Compliant***

ELL6GM Type

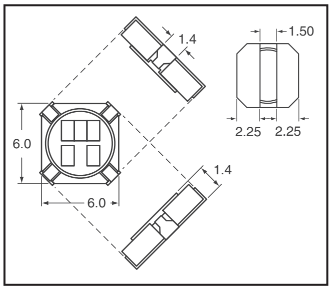

Features: • Magnetic shielded structure • Low DC resistance and high current • Structure for withstanding fall shock • Available on tape and reel for automatic insertion

Recommended Applications: • DC/DC converter • Chopper circuit, decoupling choke

Note: *Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Inductance Nominal (µH)	Inductance TOL.	DCR (@20°C) Nominal (Ohm)	DCR (@20°C) TOL.	*Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
1.8	±30%	0.028	±20%	1900	PCD1674CT-ND◆	.78	.73	.60	—	—	ELL-6GM1R8N
2.2	±30%	0.035	±20%	1800	PCD1675CT-ND	.78	.73	.60	—	—	ELL-6GM2R2N
3.6	±30%	0.057	±20%	1500	PCD1677CT-ND	.78	.73	.60	—	—	ELL-6GM3R6N
5.6	±30%	0.086	±20%	1200	PCD1679CT-ND	.78	.73	.60	—	—	ELL-6GM5R6N
6.8	±30%	0.096	±20%	1100	PCD1680CT-ND	.78	.73	.60	—	—	ELL-6GM6R8N
12	±20%	0.17	±20%	830	PCD1683CT-ND	.78	.73	.60	PCD1683TR-ND	462.50	ELL-6GM120M
15	±20%	0.19	±20%	740	PCD1684CT-ND	.78	.73	.60	—	—	ELL-6GM150M
18	±20%	0.26	±20%	710	PCD1685CT-ND	.78	.73	.60	PCD1685TR-ND	462.50	ELL-6GM180M
27	±20%	0.35	±20%	560	PCD1687CT-ND	.78	.73	.60	PCD1687TR-ND	462.50	ELL-6GM270M
33	±20%	0.49	±20%	500	PCD1688CT-ND	.78	.73	.60	—	—	ELL-6GM330M
39	±20%	0.55	±20%	460	PCD1689CT-ND	.78	.73	.60	—	—	ELL-6GM390M
47	±20%	0.62	±20%	420	PCD1690CT-ND	.78	.73	.60	—	—	ELL-6GM470M
56	±20%	0.70	±20%	380	PCD1691CT-ND	.78	.73	.60	PCD1691TR-ND	462.50	ELL-6GM560M
68	±20%	0.82	±20%	350	PCD1692CT-ND	.78	.73	.60	—	—	ELL-6GM680M

◆ *RoHS Compliant*

ELL6PM Type

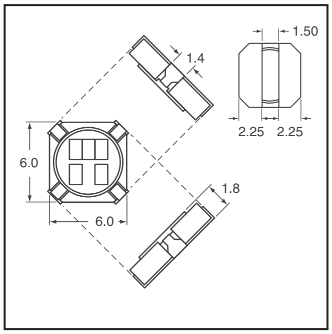

Features:

• Magnetic shielded structure • Low DC resistance and high current • Structure for withstanding fall shock • Available on tape and reel for automatic insertion

Recommended Applications:

• DC/DC converter • Chopper circuit, decoupling choke

Note: *Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Inductance Nominal (µH)	Inductance TOL.	DCR (@20°C) Nominal (Ohm)	DCR (@20°C) TOL.	*Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
1.5	±30%	0.020	±20%	2450	PCD1694CT-ND◆	.82	.77	.63	PCD1694TR-ND◆	487.50	ELL-6PM1R5N
2.7	±30%	0.029	±20%	2000	PCD1696CT-ND	.82	.77	.63	PCD1696TR-ND	487.50	ELL-6PM2R7N
3.9	±30%	0.040	±20%	1800	PCD1698CT-ND	.82	.77	.63	—	—	ELL-6PM3R9N
5.6	±30%	0.052	±20%	1500	PCD1700CT-ND	.82	.77	.63	—	—	ELL-6PM5R6N
7.5	±30%	0.070	±20%	1300	PCD1702CT-ND	.82	.77	.63	—	—	ELL-6PM7R5N
9.1	±30%	0.077	±20%	1200	PCD1703CT-ND	.82	.77	.63	—	—	ELL-6PM9R1N
12	±20%	0.11	±20%	950	PCD1705CT-ND	.82	.77	.63	PCD1705TR-ND	487.50	ELL-6PM120M
15	±20%	0.13	±20%	950	PCD1706CT-ND◆	.82	.77	.63	—	—	ELL-6PM150M
18	±20%	0.14	±20%	820	PCD1707CT-ND◆	.82	.77	.63	—	—	ELL-6PM180M
27	±20%	0.22	±20%	620	PCD1709CT-ND	.82	.77	.63	—	—	ELL-6PM270M
33	±20%	0.29	±20%	550	PCD1710CT-ND	.82	.77	.63	—	—	ELL-6PM330M
39	±20%	0.31	±20%	520	PCD1711CT-ND	.82	.77	.63	—	—	ELL-6PM390M
56	±20%	0.50	±20%	420	PCD1713CT-ND	.82	.77	.63	PCD1713TR-ND	487.50	ELL-6PM560M
82	±20%	0.68	±20%	360	PCD1715CT-ND	.82	.77	.63	PCD1715TR-ND	487.50	ELL-6PM820M
100	±20%	0.97	±20%	320	PCD1716CT-ND	.82	.77	.63	—	—	ELL-6PM101M

◆ *RoHS Compliant*

ELL6PV Type

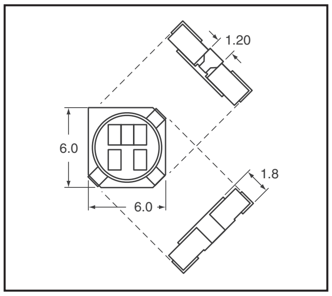

Features:
• Thin type (height, 1.8mm) • Capable of corresponding high current • Low DC resistance

Recommended Application:
• Videos, audio, mobile communications, electric battery driving equipment • Choke coils for chopper circuit decoupling choke in DC/DC convertor circuit

Cautions for Use:
• DC/DC power converter • Chopper type: 1W maximum • Operating temperature: 105°C maximum (Including self-temperature rise)

Note: *Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Inductance Nominal (µH)	Inductance TOL.	DCR (@20°C) Nominal (Ohm)	DCR (@20°C) TOL.	*Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
1.5	±30%	0.019	±20%	2600	PCD1718CT-ND	.68	.64	.52	PCD1718TR-ND	406.25	ELL-6PV1R5N
1.8	±30%	0.024	±20%	2500	PCD1719CT-ND	.68	.64	.52	—	—	ELL-6PV1R8N
3.3	±30%	0.032	±20%	1900	PCD1721CT-ND	.68	.64	.52	—	—	ELL-6PV3R3N
5.6	±30%	0.049	±20%	1450	PCD1724CT-ND	.68	.64	.52	—	—	ELL-6PV5R6N
6.8	±30%	0.055	±20%	1250	PCD1725CT-ND	.68	.64	.52	—	—	ELL-6PV6R8N
8.2	±30%	0.070	±20%	1150	PCD1726CT-ND◆	.68	.64	.52	PCD1726TR-ND◆	406.25	ELL-6PV8R2N
9.1	±30%	0.076	±20%	1100	PCD1727CT-ND	.68	.64	.52	—	—	ELL-6PV9R1N
10	±20%	0.085	±20%	1000	PCD1728CT-ND◆	.68	.64	.52	—	—	ELL-6PV100M
12	±20%	0.090	±20%	980	PCD1729CT-ND◆	.68	.64	.52	PCD1729TR-ND◆	406.25	ELL-6PV120M
15	±20%	0.12	±20%	880	PCD1730CT-ND	.68	.64	.52	—	—	ELL-6PV150M
18	±20%	0.14	±20%	840	PCD1731CT-ND	.68	.64	.52	—	—	ELL-6PV180M
22	±20%	0.20	±20%	700	PCD1732CT-ND	.68	.64	.52	PCD1732TR-ND	406.25	ELL-6PV220M
27	±20%	0.22	±20%	670	PCD1733CT-ND	.68	.64	.52	—	—	ELL-6PV270M
39	±20%	0.33	±20%	550	PCD1735CT-ND	.68	.64	.52	—	—	ELL-6PV390M
56	±20%	0.41	±20%	450	PCD1737CT-ND	.68	.64	.52	—	—	ELL-6PV560M
68	±20%	0.57	±20%	420	PCD1738CT-ND◆	.68	.64	.52	PCD1738TR-ND◆	406.25	ELL-6PV680M
82	±20%	0.65	±20%	380	PCD1739CT-ND	.68	.64	.52	PCD1739TR-ND	406.25	ELL-6PV820M
100	±20%	0.75	±20%	340	PCD1740CT-ND	.68	.64	.52	—	—	ELL-6PV101M

◆ *RoHS Compliant*

ELL3GM Type

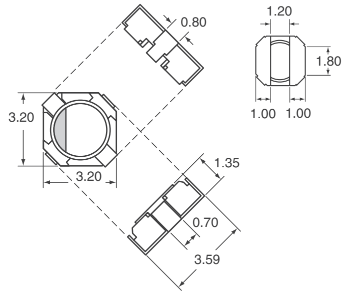

Features: • Magnetic shielded structure • Low DC resistance, high current • Shock resistant • Available on tape and reel for automatic insertion • Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Recommended Applications: • DC/DC Converter Circuit for computer peripheral, Hand phone • Choke coils for chopper circuit decoupling choke in DC/DC Converter Circuit

Inductance (100kHz) Nominal (µH)	TOL.	RDC (@20°C) Nominal (Ω)	TOL.	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Panasonic Part No.
1.3	±30%	0.058	±20%	1500	PCD1642CT-ND	1.26	1.04	.82	ELL-3GM1R3N
3.9	±30%	0.14	±20%	940	PCD1646CT-ND	1.26	1.04	.82	ELL-3GM3R9N
4.3	±30%	0.22	±20%	720	PCD1647CT-ND	1.26	1.04	.82	ELL-3GM4R3N
5.6	±30%	0.26	±20%	670	PCD1649CT-ND◆	1.26	1.04	.82	ELL-3GM5R6N
8.2	±30%	0.31	±20%	620	PCD1651CT-ND	1.26	1.04	.82	ELL-3GM8R2N
12	±20%	0.40	±20%	530	PCD1653CT-ND◆	1.26	1.04	.82	ELL-3GM120M
18	±20%	0.64	±20%	420	PCD1655CT-ND	1.26	1.04	.82	ELL-3GM180M
27	±20%	1.05	±20%	330	PCD1657CT-ND	1.26	1.04	.82	ELL-3GM270M

◆ *RoHS Compliant*

ELL4LM and ELL4GM Types

Features:

Series ELL4LM: • Magnetic shielded structure • Low DC resistance, high current • Structure for withstanding fall shock • Available on tape and reel for automatic insertion **Recommended Applications:** • DC/DC Converter Circuit for Computer peripheral, hand phone • Choke coils for chopper circuit decoupling choke in DC/DC Converter Circuit ***Rated Current:** This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition (at 20°C)

Series ELL4GM: • Low Profile • High Power • High Inductance • Shock Resistant **Recommended Applications**: • Digital Base Band • CPA and PA **Rated Current:** The Maximum allowable current is a D.C. current which causes a 30% inductance reduction from its nominal value or coil temperature to rise 45°C, whichever is smaller (Reference ambient temperature 20°C)

Operating Temperature: -40 ~ 105°C (Including self-temperature rise)

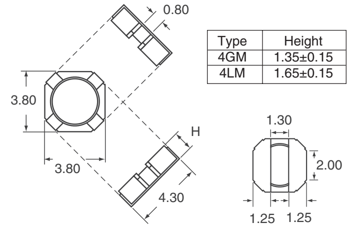

Type	Height
4GM	1.35±0.15
4LM	1.65±0.15

Inductance(100kHz) Nominal (µH)	TOL.	RDC (@20°C) Nominal (Ω)	TOL.	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Panasonic Part No.
ELL4LM Series												
1.0	±30%	0.026	±20%	2000	PCD1659CT-ND	1.40	1.16	.91	—	—	—	ELL-4LM1R0N
6.2	±30%	0.14	±20%	800	PCD1665CT-ND	1.40	1.16	.91	—	—	—	ELL-4LM6R2N
7.5	±30%	0.15	±20%	720	PCD1666CT-ND	1.40	1.16	.91	—	—	—	ELL-4LM7R5N
18	±30%	0.32	±20%	460	PCD1670CT-ND	1.40	1.16	.91	—	—	—	ELL-4LM180M
27	±30%	0.42	±20%	370	PCD1672CT-ND◆	1.40	1.16	.91	PCD1672TR-ND◆	3,000	495.00/M	ELL-4LM270M
ELL4GM Series — RoHS Compliant												
2.4	±30%	0.066	±20%	1150	PCD2061CT-ND	.96	.79	.62	—	—	—	ELL-4GM2R4N
3.6	±30%	0.10	±20%	950	PCD2062CT-ND	.96	.79	.62	—	—	—	ELL-4GM3R6N
5.6	±30%	0.13	±20%	750	PCD2064CT-ND	.96	.79	.62	PCD2064TR-ND	2,000	338.00/M	ELL-4GM5R6N
6.8	±30%	0.18	±20%	640	PCD2065CT-ND	.96	.79	.62	—	—	—	ELL-4GM6R8N
8.2	±30%	0.22	±20%	580	PCD2066CT-ND	.96	.79	.62	—	—	—	ELL-4GM8R2N
15	±20%	0.29	±20%	410	PCD2179CT-ND	.96	.79	.62	PCD2179TR-ND	2,000	338.00/M	ELL-4GM150M
18	±20%	0.49	±20%	400	PCD2068CT-ND	.96	.79	.62	PCD2068TR-ND	2,000	338.00/M	ELL-4GM180M
27	±20%	0.64	±20%	330	PCD2070CT-ND	.96	.79	.62	PCD2070TR-ND	2,000	338.00/M	ELL-4GM270M
33	±20%	0.70	±20%	300	PCD2071CT-ND	.96	.79	.62	—	—	—	ELL-4GM330M
47	±20%	1.05	±20%	260	PCD2180CT-ND	.96	.79	.62	PCD2180TR-ND	2,000	338.00/M	ELL-4GM470M

◆ *RoHS Compliant*

ELLATV Type

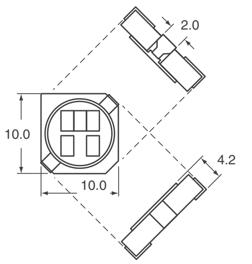

Features:

• Magnetic shielded structure • Low DC resistance and capable of corresponding high current • Available on tape and reel for automatic insertion • Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Recommended Applications:

• DC/DC converter circuit for computer peripheral, LCD • Choke coils for chopper circuit decoupling choked in DC/DC Converter Circuit

Inductance (100kHz) Nominal (µH)	TOL.	RDC (@20°C) Nominal (mOhm)	TOL.	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
1.5	±30%	5.3	±20%	6700	PCD1741CT-ND◆	2.17	1.79	1.41	PCD1741TR-ND◆	382.50	ELL-ATV1R5N
2.2	±30%	6.3	±20%	6200	PCD1742CT-ND◆	2.17	1.79	1.41	PCD1742TR-ND◆	382.50	ELL-ATV2R2N
3.3	±30%	8.8	±20%	5350	PCD1743CT-ND◆	2.17	1.79	1.41	PCD1743TR-ND◆	382.50	ELL-ATV3R3N
4.3	±30%	10	±20%	5000	PCD1744CT-ND◆	2.17	1.79	1.41	PCD1744TR-ND◆	382.50	ELL-ATV4R3N
5.1	±30%	14	±20%	4350	PCD1745CT-ND◆	2.17	1.79	1.41	PCD1745TR-ND◆	382.50	ELL-ATV5R1N
6.8	±30%	16	±20%	4000	PCD1746CT-ND◆	2.17	1.79	1.41	PCD1746TR-ND◆	382.50	ELL-ATV6R8N
8.2	±30%	18	±20%	3700	PCD1747CT-ND◆	2.17	1.79	1.41	PCD1747TR-ND◆	382.50	ELL-ATV8R2N
10	±20%	23	±20%	3300	PCD1748CT-ND◆	2.17	1.79	1.41	PCD1748TR-ND◆	382.50	ELL-ATV100M
12	±20%	25	±20%	2900	PCD1749CT-ND◆	2.17	1.79	1.41	PCD1749TR-ND◆	382.50	ELL-ATV120M
15	±20%	32	±20%	2800	PCD1750CT-ND	2.17	1.79	1.41	PCD1750TR-ND	382.50	ELL-ATV150M
18	±20%	38	±20%	2500	PCD1751CT-ND◆	2.17	1.79	1.41	PCD1751TR-ND◆	382.50	ELL-ATV180M
22	±20%	45	±20%	2200	PCD1752CT-ND◆	2.17	1.79	1.41	PCD1752TR-ND◆	382.50	ELL-ATV220M
27	±20%	56	±20%	2000	PCD1753CT-ND◆	2.17	1.79	1.41	PCD1753TR-ND◆	382.50	ELL-ATV270M
33	±20%	62	±20%	1800	PCD1754CT-ND◆	2.17	1.79	1.41	PCD1754TR-ND◆	382.50	ELL-ATV330M
39	±20%	74	±20%	1600	PCD1755CT-ND◆	2.17	1.79	1.41	PCD1755TR-ND◆	382.50	ELL-ATV390M
47	±20%	94	±20%	1550	PCD1756CT-ND◆	2.17	1.79	1.41	PCD1756TR-ND◆	382.50	ELL-ATV470M
56	±20%	100	±20%	1350	PCD1757CT-ND◆	2.17	1.79	1.41	PCD1757TR-ND◆	382.50	ELL-ATV560M
68	±20%	130	±20%	1200	PCD1758CT-ND	2.17	1.79	1.41	PCD1758TR-ND	382.50	ELL-ATV680M
82	±20%	150	±20%	1100	PCD1759CT-ND◆	2.17	1.79	1.41	PCD1759TR-ND◆	382.50	ELL-ATV820M
100	±20%	180	±20%	1000	PCD1760CT-ND◆	2.17	1.79	1.41	PCD1760TR-ND◆	382.50	ELL-ATV101M
120	±20%	210	±20%	940	PCD1761CT-ND◆	2.17	1.79	1.41	PCD1761TR-ND◆	382.50	ELL-ATV121M
150	±20%	300	±20%	850	PCD1762CT-ND◆	2.17	1.79	1.41	PCD1762TR-ND◆	382.50	ELL-ATV151M
180	±20%	350	±20%	770	PCD1763CT-ND	2.17	1.79	1.41	PCD1763TR-ND	382.50	ELL-ATV181M
220	±20%	400	±20%	700	PCD1764CT-ND◆	2.17	1.79	1.41	PCD1764TR-ND◆	382.50	ELL-ATV221M
270	±20%	500	±20%	630	PCD1765CT-ND	2.17	1.79	1.41	PCD1765TR-ND	382.50	ELL-ATV271M
330	±20%	600	±20%	550	PCD1766CT-ND◆	2.17	1.79	1.41	PCD1766TR-ND◆	382.50	ELL-ATV331M
390	±20%	750	±20%	520	PCD1767CT-ND	2.17	1.79	1.41	PCD1767TR-ND	382.50	ELL-ATV391M
470	±20%	850	±20%	480	PCD1768CT-ND◆	2.17	1.79	1.41	PCD1768TR-ND◆	382.50	ELL-ATV471M
560	±20%	1100	±20%	440	PCD1769CT-ND	2.17	1.79	1.41	PCD1769TR-ND	382.50	ELL-ATV561M
680	±20%	1250	±20%	400	PCD1770CT-ND◆	2.17	1.79	1.41	PCD1770TR-ND◆	382.50	ELL-ATV681M
820	±20%	1700	±20%	360	PCD1771CT-ND	2.17	1.79	1.41	PCD1771TR-ND	382.50	ELL-ATV821M
1000	±20%	2000	±20%	330	PCD1772CT-ND◆	2.17	1.79	1.41	PCD1772TR-ND◆	382.50	ELL-ATV102M

◆ *RoHS Compliant*

(Continued)

ELL5GM and ELL5PM Types

Features:
- Magnetic shielded structure
- Low DC resistance and large current capability
- Shock resistant structure

Recommended Applications:
- DC/DC converter circuitry for computer peripherals and cellular hand sets
- Chopper circuit decoupling chokes in DC/DC converter circuitry

Rated Current: This indicates the value of current when the inductance is 70% of nominal value or when the case temperature has risen 45°C (at 20°C)

Operating Temperature: -40 ~ 105°C (Including self-temperature rise)

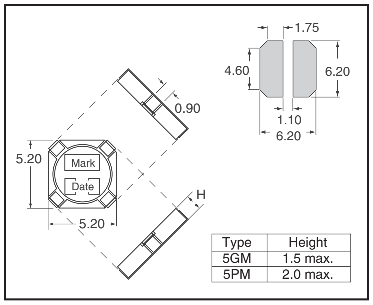

Type	Height
5GM	1.5 max.
5PM	2.0 max.

Inductance (100kHz) Nominal (µH)	TOL.	RDC (@20°C) TOL. ± 20% (mΩ)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
ELL5GM Series										
1.0	±30%	32	2200	PCD2072CT-ND	.99	.82	.64	—	—	ELL-5GM1R0N
3.6	±30%	70	1300	PCD2074CT-ND	.99	.82	.64	—	—	ELL-5GM3R6N
5.6	±30%	100	1000	PCD2076CT-ND	.99	.82	.64	PCD2076TR-ND	349.00/M	ELL-5GM5R6N
8.2	±30%	140	850	PCD2078CT-ND	.99	.82	.64	—	—	ELL-5GM8R2N
15.0	±20%	250	650	PCD2081CT-ND	.99	.82	.64	PCD2081TR-ND	349.00/M	ELL-5GM150M
27.0	±20%	430	450	PCD2084CT-ND	.99	.82	.64	PCD2084TR-ND	349.00/M	ELL-5GM270M
33.0	±20%	490	400	PCD2085CT-ND	.99	.82	.64	PCD2085TR-ND	349.00/M	ELL-5GM330M
47.0	±20%	930	390	PCD2181CT-ND	.99	.82	.64	PCD2181TR-ND	349.00/M	ELL-5GM470M
ELL5PM Series										
3.0	±30%	36	1800	PCD2089CT-ND	1.08	.90	.71	—	—	ELL-5PM3R0N
3.9	±30%	47	1600	PCD2090CT-ND	1.08	.90	.71	PCD2090TR-ND	383.00/M	ELL-5PM3R9N
6.8	±30%	74	1200	PCD2093CT-ND	1.08	.90	.71	PCD2093TR-ND	383.00/M	ELL-5PM6R8N
8.2	±30%	81	1050	PCD2094CT-ND	1.08	.90	.71	—	—	ELL-5PM8R2N
12.0	±20%	120	850	PCD2096CT-ND	1.08	.90	.71	PCD2096TR-ND	383.00/M	ELL-5PM120M
18.0	±20%	180	720	PCD2098CT-ND	1.08	.90	.71	PCD2098TR-ND	383.00/M	ELL-5PM180M
22.0	±20%	210	680	PCD2099CT-ND	1.08	.90	.71	—	—	ELL-5PM220M
33.0	±20%	270	530	PCD2101CT-ND	1.08	.90	.71	PCD2101TR-ND	383.00/M	ELL-5PM330M
56.0	±20%	610	400	PCD2104CT-ND	1.08	.90	.71	—	—	ELL-5PM560M
82.0	±20%	780	320	PCD2106CT-ND	1.08	.90	.71	PCD2106TR-ND	383.00/M	ELL-5PM820M

ELLCTV Type

Features:
- Magnetic shielded structure
- Low DC resistance and large current capability

Recommended Applications:
- DC/DC converter circuitry for computer peripherals and cellular hand sets
- Chopper circuit decoupling chokes in DC/DC converter circuitry

Rated Current: This indicates the value of current when the inductance is 70% of nominal value or when the case temperature has risen 45°C (at 20°C)

Operating Temperature: -40 ~ 105°C (Including self-temperature rise)

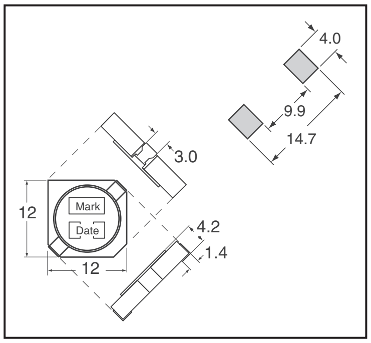

Inductance (100kHz) Nominal (µH)	TOL.	RDC (@20°C) TOL. ± 20% (mΩ)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
1.2	±30%	4.6	6500	PCD2144CT-ND	2.24	1.85	1.46	PCD2144TR-ND	396.00	ELL-CTV1R2N
2.0	±30%	5.6	6300	PCD2145CT-ND	2.24	1.85	1.46	PCD2145TR-ND	396.00	ELL-CTV2R0N
2.7	±30%	7.0	5700	PCD2146CT-ND	2.24	1.85	1.46	PCD2146TR-ND	396.00	ELL-CTV2R7N
3.9	±30%	8.5	5600	PCD2147CT-ND	2.24	1.85	1.46	PCD2147TR-ND	396.00	ELL-CTV3R9N
4.7	±30%	9.9	5200	PCD2148CT-ND	2.24	1.85	1.46	PCD2148TR-ND	396.00	ELL-CTV4R7N
5.6	±30%	11	4900	PCD2149CT-ND	2.24	1.85	1.46	PCD2149TR-ND	396.00	ELL-CTV5R6N
6.8	±30%	14	4500	PCD2150CT-ND	2.24	1.85	1.46	PCD2150TR-ND	396.00	ELL-CTV6R8N
8.2	±30%	15	4400	PCD2151CT-ND	2.24	1.85	1.46	PCD2151TR-ND	396.00	ELL-CTV8R2N
10.0	±20%	17	3900	PCD2152CT-ND	2.24	1.85	1.46	PCD2152TR-ND	396.00	ELL-CTV100M
12.0	±20%	22	3700	PCD2153CT-ND	2.24	1.85	1.46	PCD2153TR-ND	396.00	ELL-CTV120M
15.0	±20%	25	3100	PCD2154CT-ND	2.24	1.85	1.46	PCD2154TR-ND	396.00	ELL-CTV150M
18.0	±20%	30	3000	PCD2155CT-ND	2.24	1.85	1.46	PCD2155TR-ND	396.00	ELL-CTV180M
22.0	±20%	37	2700	PCD2156CT-ND	2.24	1.85	1.46	PCD2156TR-ND	396.00	ELL-CTV220M
27.0	±20%	43	2300	PCD2157CT-ND	2.24	1.85	1.46	PCD2157TR-ND	396.00	ELL-CTV270M
33.0	±20%	50	2200	PCD2158CT-ND	2.24	1.85	1.46	PCD2158TR-ND	396.00	ELL-CTV330M
39.0	±20%	61	2100	PCD2159CT-ND	2.24	1.85	1.46	PCD2159TR-ND	396.00	ELL-CTV390M
47.0	±20%	69	1900	PCD2160CT-ND	2.24	1.85	1.46	PCD2160TR-ND	396.00	ELL-CTV470M
56.0	±20%	87	1600	PCD2161CT-ND	2.24	1.85	1.46	PCD2161TR-ND	396.00	ELL-CTV560M
68.0	±20%	100	1500	PCD2162CT-ND	2.24	1.85	1.46	PCD2162TR-ND	396.00	ELL-CTV680M
82.0	±20%	120	1400	PCD2163CT-ND	2.24	1.85	1.46	PCD2163TR-ND	396.00	ELL-CTV820M
100.0	±20%	150	1200	PCD2164CT-ND	2.24	1.85	1.46	PCD2164TR-ND	396.00	ELL-CTV101M
120.0	±20%	190	1100	PCD2165CT-ND	2.24	1.85	1.46	PCD2165TR-ND	396.00	ELL-CTV121M
150.0	±20%	220	1000	PCD2166CT-ND	2.24	1.85	1.46	PCD2166TR-ND	396.00	ELL-CTV151M
180.0	±20%	270	930	PCD2167CT-ND	2.24	1.85	1.46	PCD2167TR-ND	396.00	ELL-CTV181M
220.0	±20%	310	840	PCD2168CT-ND	2.24	1.85	1.46	PCD2168TR-ND	396.00	ELL-CTV221M
270.0	±20%	400	810	PCD2169CT-ND	2.24	1.85	1.46	PCD2169TR-ND	396.00	ELL-CTV271M
330.0	±20%	500	660	PCD2170CT-ND	2.24	1.85	1.46	PCD2170TR-ND	396.00	ELL-CTV331M
390.0	±20%	560	630	PCD2171CT-ND	2.24	1.85	1.46	PCD2171TR-ND	396.00	ELL-CTV391M
470.0	±20%	690	580	PCD2172CT-ND	2.24	1.85	1.46	PCD2172TR-ND	396.00	ELL-CTV471M
560.0	±20%	810	540	PCD2173CT-ND	2.24	1.85	1.46	PCD2173TR-ND	396.00	ELL-CTV561M
680.0	±20%	1010	470	PCD2174CT-ND	2.24	1.85	1.46	PCD2174TR-ND	396.00	ELL-CTV681M
820.0	±20%	1140	440	PCD2175CT-ND	2.24	1.85	1.46	PCD2175TR-ND	396.00	ELL-CTV821M
1000.0	±20%	1500	410	PCD2176CT-ND	2.24	1.85	1.46	PCD2176TR-ND	396.00	ELL-CTV102M

SMD Power Choke Coils ETQP4L Type

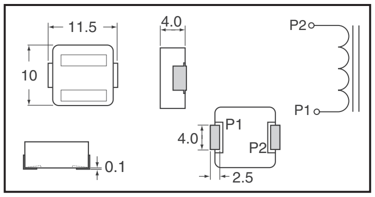

Features: • Small size, space-saving (11.5 x 10 x 4 mm) • Capable of corresponding high current (15A to 21A) • Low loss (DCR :0.7 to 1.6mΩ) • Capable of corresponding high frequency (to 1MHz) • Surface mount and lead-free type **Recommended Applications**: • DC/DC converter for driving CPU at high speed such as server and router • Electric power supply for CPU peripherals of Notebook PC and Desktop PC

Inductance (at 20°C) (Tol. = ±20%) L1 (µH)	L1 Meas. Current	L2* (µH)	L2* Meas. Current	DC Resist. (at 20°C) RDC (mΩ) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
.56±20%	15A	0.53	21A	1.7	PCD1638CT-ND	3.56	3.06	2.04	PCD1638TR-ND	687.49	ETQ-P4LR56WFC
.36±20%	17A	0.34	24A	1.1	PCD1637CT-ND	3.56	3.06	2.04	PCD1637TR-ND	687.49	ETQ-P4LR36WFC
.19±20%	21A	0.176	30A	0.7	PCD1636CT-ND	3.56	3.06	2.04	PCD1636TR-ND	687.49	ETQ-P4LR19WFC

* Reference Only

ETQP5L Type

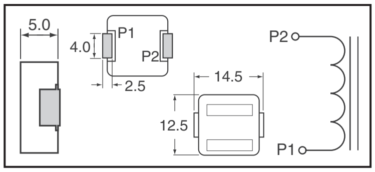

Features: • Small size, space-saving (11.5 x 10 x 4 mm) • Capable of corresponding high current (21A to 28A) • Low loss (DCR: 0.7 ~ 1.6mΩ) • Capable of corresponding high frequency (to 1MHz) • Low buzz noise due to gap-less structure **Recommended Applications**: • DC/DC converter for driving CPU at high speed such as server and router • Desktop PC power supply modules

Inductance (at 20°C) (Tol. = ±20%) L1 (µH)	L1 Meas. Current	L2* (µH)	L2* Meas. Current	DC Resist. (at 20°C) DCR (mΩ) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
0.50±20%	30A	0.46	42A	0.8±7%	PCD2021CT-ND	3.43	2.94	1.96	PCD2021TR-ND	661.50	ETQ-P5LR50XFA
0.60±20%	30A	0.54	42A	1.1±5%	PCD2022CT-ND	3.43	2.94	1.96	PCD2022TR-ND	661.50	ETQ-P5LR60XFA

* Reference Only

Panasonic® SMD Power Choke Coils

PCC-N6 Type — Thin, Compact and High Power

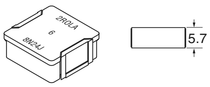

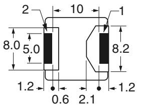

Bottom View

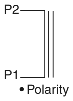

• Polarity

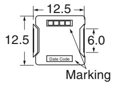

Top View

Features:

• High power type • Thin type (5.7mm height) • Low leakage flux

Recommended Applications:

• DC/DC converter for driving PC at high speed • Thin type on-board power supply module for exchanger (10 ~ 40W)

Series	Inductance		Saturation Current		Heat Rating Current ΔT=40°C	DC Resistance @20°C	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel Pricing	Panasonic
	Initial @ 25°C (100 KHz)	Flat Point @ 25°C (100 KHz)	@ 25°C	@ 100°C									
	L_0 (µH)	L_1 (µH)	I sat (A) Min.	I sat (A) Min.	I_0 (A) Ref. Only	DCR (mΩ) Max.	Part No.	1	10	100	Part No.	500	Part No.
HL	2.3±30%	1.2±30%	14.3	11.7	14.2	2.24	PCD1307CT-ND	3.35	2.88	1.92	PCD1307TR-ND	646.50	ETQ-P6F1R2HFA
	3.5±30%	2.0±30%	10.7	8.7	12.5	3.30	PCD1308CT-ND	3.35	2.88	1.92	PCD1308TR-ND	646.50	ETQ-P6F2R0HFA
	4.8±25%	3.2±25%	8.6	7.1	10.8	4.92	PCD1309CT-ND	3.35	2.88	1.92	PCD1309TR-ND	646.50	ETQ-P6F3R2HFA
	6.6±25%	4.6±25%	7.3	6.0	9.3	6.48	PCD1310CT-ND	3.35	2.88	1.92	PCD1310TR-ND	646.50	ETQ-P6F4R6HFA
	8.3±25%	6.4±25%	6.2	5.2	7.9	8.64	PCD1311CT-ND	3.35	2.88	1.92	PCD1311TR-ND	646.50	ETQ-P6F6R4HFA
	10.4±25%	8.2±25%	5.6	4.7	7.2	10.9	PCD1312CT-ND	3.35	2.88	1.92	PCD1312TR-ND	646.50	ETQ-P6F8R2HFA
	12.5±25%	10.2±25%	4.7	4.0	6.5	13.3	PCD1313CT-ND	3.35	2.88	1.92	PCD1313TR-ND	646.50	ETQ-P6F102HFA
SP	1.9±30%	1.0±30%	19.4	15.4	14.2	2.24	PCD1314CT-ND	3.35	2.88	1.92	PCD1314TR-ND	646.50	ETQ-P6F1R0SFA
	2.8±30%	1.6±30%	14.9	12.2	12.5	3.30	PCD1315CT-ND	3.35	2.88	1.92	PCD1315TR-ND	646.50	ETQ-P6F1R6SFA
	3.6±30%	2.5±30%	11.3	9.3	10.8	4.92	PCD1316CT-ND	3.35	2.88	1.92	PCD1316TR-ND	646.50	ETQ-P6F2R5SFA
	4.9±30%	3.5±30%	9.5	8.0	9.3	6.48	PCD1392CT-ND	3.35	2.88	1.92	PCD1392TR-ND	646.50	ETQ-P6F3R5SFA
LB	1.8±30%	0.8±30%	25.2	20.0	14.2	2.24	PCD1317CT-ND	3.35	2.88	1.92	PCD1317TR-ND	646.50	ETQ-P6F0R8LFA
	2.5±30%	1.3±30%	18.6	15.8	12.5	3.30	PCD1318CT-ND	3.35	2.88	1.92	PCD1318TR-ND	646.50	ETQ-P6F1R3LFA
	3.1±30%	2.0±30%	15.1	12.1	10.8	4.92	PCD1319CT-ND	3.35	2.88	1.92	PCD1319TR-ND	646.50	ETQ-P6F2R0LFA
	4.1±30%	2.9±30%	12.0	10.0	9.3	6.48	PCD1320CT-ND	3.35	2.88	1.92	PCD1320TR-ND	646.50	ETQ-P6F2R9LFA
	5.0±20%	4.1±20%	10.8	8.7	7.9	8.64	PCD1321CT-ND	3.35	2.88	1.92	PCD1321TR-ND	646.50	ETQ-P6F4R1LFA

E

N6B Type — High Rated Current, Low Profile and Low Loss

Applications:

- DC/DC converter for cpu in PC or video game machine
- Thin type on-board power supply for switchboards

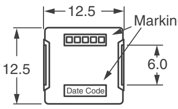

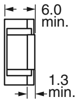

Inductance (@ 20°C) (Tolerance = ±20%)				DC Resistance @ 20°C	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel Pricing	Panasonic
L1		L2									
(µH)	Measuring Current	(µH)	Measuring Current	DCR (mΩ) Max.	Part No.	1	10	100	Part No.	500	Part No.
0.58	19A	0.54	27A	1.44	PCD1393CT-ND	3.35	2.88	1.92	PCD1393TR-ND	646.50	ETQ-P6F0R6BFA
1.06	16A	0.99	22A	2.24	PCD1394CT-ND	3.35	2.88	1.92	PCD1394TR-ND	646.50	ETQ-P6F1R1BFA
1.71	14A	1.50	20A	3.30	PCD1395CT-ND	3.35	2.88	1.92	PCD1395TR-ND	646.50	ETQ-P6F1R8BFA
2.45	12A	2.17	17A	4.92	PCD1396CT-ND	3.35	2.88	1.92	PCD1396TR-ND	646.50	ETQ-P6F2R5BFA
3.32	10A	2.96	14A	6.48	PCD1639CT-ND	3.35	2.88	1.92	PCD1639TR-ND	646.50	ETQ-P6F3R4BFA

PCC-NX1/NX2 Type — Small and Ultra Thin, High Current and Low Loss

Features: • High Power: 1 sat (<29A) • High Inductance: 0.7 ~ 2.5 µH • Low Resistance: .89 ~ 5.0mΩ • Small Mount Area: 13.0 ~ 12.9 • Height: ETQ-P3H: 3.9mm; ETQ-P2H: 4.9mm; ETQ-P1H: 6.0mm
Applications: • PC High speed of CPU: Notebook PC

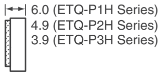

Series	Inductance (@ 20°C)				DC Resist. @ 20°C	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel Pricing	Panasonic
	L1		L2*									
	(µH)	Meas. Current	(µH)	Meas. Current	DCR (mΩ) Max.	Part No.	1	10	100	Part No.	500	Part No.
ETQ-P1H	0.60±25%	26A	0.45	36A	0.90	PCD1634CT-ND	4.34	3.72	2.48	PCD1634TR-ND	837.00	ETQ-P1H0R6BFA
	1.00±20%	19A	0.80	27A	1.56	PCD1635CT-ND	4.34	3.72	2.48	PCD1635TR-ND	837.00	ETQ-P1H1R0BFA
ETQ-P2H	0.33±20%	23A	0.30	32A	0.89	PCD1566CT-ND	3.96	3.40	2.27	PCD1566TR-ND	764.10	ETQ-P2H0R3BFK
	0.69±20%	21A	0.59	29A	1.30	PCD1567CT-ND	3.96	3.40	2.27	PCD1567TR-ND	764.00	ETQ-P2H0R7BFA
	1.22±20%	16A	1.04	22A	2.27	PCD1568CT-ND	3.96	3.40	2.27	PCD1568TR-ND	764.10	ETQ-P2H1R2BFA
	1.83±20%	14A	1.49	20A	3.48	PCD1569CT-ND	3.96	3.40	2.27	PCD1569TR-ND	764.10	ETQ-P2H1R8BFA
	2.61±20%	12A	2.12	17A	4.98	PCD1570CT-ND	3.96	3.40	2.27	PCD1570TR-ND	764.10	ETQ-P2H2R6BFA
ETQ-P3H	0.36±20%	23A	0.32	32A	1.04	PCD1640CT-ND	3.96	3.40	2.27	PCD1640TR-ND	764.10	ETQ-P3H0R4BFA
	0.80±20%	16A	0.71	22A	2.33	PCD1571CT-ND	3.96	3.40	2.27	PCD1571TR-ND	764.10	ETQ-P3H0R8BFA
	1.43±20%	12A	1.25	17A	4.52	PCD1572CT-ND	3.96	3.40	2.27	PCD1572TR-ND	764.10	ETQ-P3H1R4BFA

* Reference only

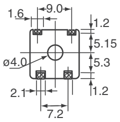

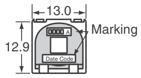

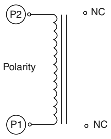

PCC-S1 Type — High Inductance and High Current

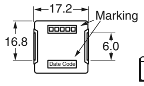

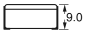

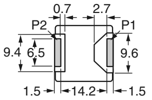

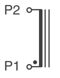

• Polarity

Features: • High inductance • High current **Recommended Applications:** • DC/DC converter • Computer network • Telcom base station

Series	Inductance		Saturation Current		Heat Rating Current ΔT=40°C	DC Resistance @ 20°C	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel Pricing	Panasonic
	Initial @ 25°C (100KHz)	At Flat Point @ 25°C (100KHz)	@ 25°C	@ 100°C									
	L_0 (µH)	L_1 (µH)	I sat (A) Min.	I sat (A) Min.	I_0 (A) Ref. Only	DCR (mΩ) Max.	Part No.	1	10	100	Part No.	250	Part No.
HL	2.9±30%	1.2±30%	21.4	18.0	22.6	1.00	PCD1331CT-ND	12.14	8.10	6.72	PCD1331TR-ND	1365.25	ETQ-PAF1R2HFA
	4.6±30%	2.7±30%	15.5	12.5	17.5	1.56	PCD1332CT-ND	12.14	8.10	6.72	PCD1332TR-ND	1365.25	ETQ-PAF2R7HFA
	6.8±30%	4.8±30%	10.6	9.0	14.4	2.29	PCD1333CT-ND	12.14	8.10	6.72	PCD1333TR-ND	1365.25	ETQ-PAF4R8HFA
	9.7±30%	7.2±30%	8.6	7.3	12.0	3.31	PCD1334CT-ND	12.14	8.10	6.72	PCD1334TR-ND	1365.25	ETQ-PAF7R2HFA
EX	1.9±30%	0.7±30%	50.4	42.3	22. 6	1.00	PCD1335CT-ND	12.14	8.10	6.72	PCD1335TR-ND	1365.25	ETQ-PAF0R7EFA
	2.9±30%	1.3±30%	36.7	30.0	17.5	1.56	PCD1336CT-ND	12.14	8.10	6.72	PCD1336TR-ND	1365.25	ETQ-PAF1R3EFA

Choke Coil for Low Pass Filter

For LPF of multi-channel digital amplifiers, with a small mounting area (small size, low RDC, high power)

Features: • Low leakage flux • Low loss with low RDC and low core loss • High quality sound, low distortion

Recommended Applications: • Home theater digital amplifiers, AV-Receivers, Audio/Visual equipment • DC/DC

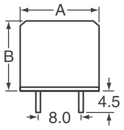

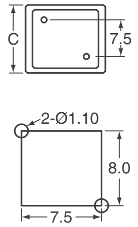

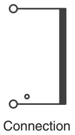

Connection Schematic

Series	Dimensions (mm)			Inductance µH @ 10kHZ	Tolerance (%)	Saturation Current @ 100°C (A)	Heat Current ΔT=40°C (A)	RDC Max. @ 20°C	Digi-Key	Price Each			Panasonic
	A	B	C						Part No.	1	10	100	Part No.
15B	15.0±0.5	16.0	14.5	33.0	10	4.0	4.0	15.0mΩ	P13501-ND	1.38	1.19	.79	ETQ-A15B330
17B	17.0±0.5	18.0	15.0	10.0	10	21.0	11.0	17.0mΩ	P13502-ND	1.73	1.48	.99	ETQ-A17B100
				15.0	10	15.0	10.0	17.0mΩ	P13503-ND	1.73	1.48	.99	ETQ-A17B150
				33.0	10	7.0	6.0	17.0mΩ	P13505-ND	1.73	1.48	.99	ETQ-A17B330

Pulse® A TECHNITROL COMPANY

Wire-Wound RF Chip Inductors 0402, 0603, 0805

Specifications:

Wire-wound ceramic core construction

- **Operating Temperature:** -40°C ~ 125°C
- **Terminal Plating:** Gold (0402), Tin or Gold manufacturers' discretion (0603, 0805)

Note:

Inductance information is not stamped on part because of the small size.

Series	Suggested Pad Layout in Inches (mm)		
	A	B	C
PE-0402CD	0.018 (0.46)	0.026 (0.66)	0.014 (0.36)
PE-0603CD	0.025 (0.64)	0.050 (1.27)	0.025 (0.64)
PE-0805CM	0.030 (0.76)	0.070 (1.78)	0.040 (1.02)

Series	Dimensions in Inches (mm) Maximum		
	L	W	H
PE-0402CD	0.047 (1.19)	0.026 (0.66)	0.024 (0.61)
PE-0603CD	0.071 (1.80)	0.049 (1.24)	0.049 (1.24)
PE-0805CM	0.090 (2.29)	0.066 (1.68)	0.057 (1.45)

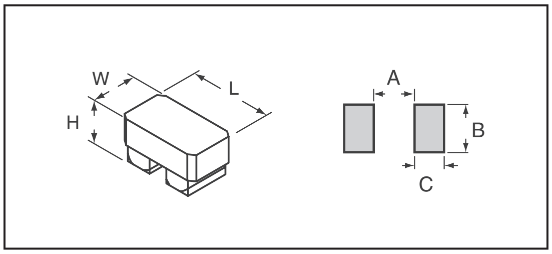

Inductance† (nH) ± 5%	IDC‡ (mA) Max.	Q§ Min.	Q Tested @ (MHz)	SRF▲ (MHz) Min.	RDC◊ (Ω) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Pulse Part No.
0402 Wire-Wound													
1	1360	13	250	6000	0.045	553-1000-1-ND	.49	.28	.19	—	—	—	PE-0402CD1N0JTG
3.3	840	20	250	6000	0.066	553-1001-1-ND	.49	.28	.19	—	—	—	PE-0402CD3N3JTG
3.6	840	20	250	6000	0.066	553-1002-1-ND	.52	.30	.20	553-1002-2-ND	3,000	139.00/M	PE-0402CD3N6JTG
5.6	760	23	250	5800	0.083	553-1004-1-ND	.52	.30	.20	553-1004-2-ND	3,000	139.00/M	PE-0402CD5N6JTG
7.5	680	25	250	5800	0.104	553-1006-1-ND	.52	.30	.20	553-1006-2-ND	3,000	139.00/M	PE-0402CD7N5JTG
8.2	680	25	250	4400	0.104	553-1007-1-ND	.49	.28	.19	—	—	—	PE-0402CD8N2JTG
15	560	26	250	3280	0.172	553-1009-1-ND	.49	.28	.19	—	—	—	PE-0402CD150JTG
23	400	26	250	2720	0.214	553-1010-1-ND	.49	.28	.19	553-1010-2-ND	3,000	139.00/M	PE-0402CD230JTG
27	400	26	250	2480	0.298	553-1011-1-ND	.49	.28	.19	—	—	—	PE-0402CD270JTG
33	350	24	250	2350	0.35	553-1012-1-ND	.52	.30	.20	553-1012-2-ND	3,000	139.00/M	PE-0402CD330JTG
40	320	26	250	2240	0.438	553-1013-1-ND	.49	.28	.19	553-1013-2-ND	3,000	139.00/M	PE-0402CD400JTG
0603 Wire-Wound													
5.1	700	20	250	5700	0.108	553-1015-1-ND	.42	.24	.16	553-1015-2-ND	2,000	113.00/M	PE-0603CD5N1JTT
6.2	700	25	250	5800	0.11	553-1016-1-ND	.42	.24	.16	553-1016-2-ND	2,000	113.00/M	PE-0603CD6N2JTT
8.2	700	30	250	4600	0.12	553-1017-1-ND	.42	.24	.16	—	—	—	PE-0603CD080JTT
10	700	30	250	4800	0.13	553-1018-1-ND	.46	.27	.17	553-1018-2-ND	2,000	122.00/M	PE-0603CD100JTT
15	700	30	250	4000	0.17	553-1019-1-ND	.46	.27	.17	553-1019-2-ND	2,000	122.00/M	PE-0603CD150JTT
18	700	35	250	3100	0.17	553-1020-1-ND	.42	.24	.16	—	—	—	PE-0603CD180JTT
22	700	35	250	3000	0.19	553-1021-1-ND	.46	.27	.17	553-1021-2-ND	2,000	122.00/M	PE-0603CD220JTT
27	600	35	250	2800	0.22	553-1022-1-ND	.46	.27	.17	553-1022-2-ND	2,000	122.00/M	PE-0603CD270JTT
33	600	35	250	2300	0.22	553-1023-1-ND	.46	.27	.17	553-1023-2-ND	2,000	122.00/M	PE-0603CD330JTT
39	600	35	250	2200	0.25	553-1024-1-ND	.46	.27	.17	553-1024-2-ND	2,000	122.00/M	PE-0603CD390JTT
47	600	35	200	2000	0.28	553-1025-1-ND	.46	.27	.17	553-1025-2-ND	2,000	122.00/M	PE-0603CD470JTT
68	600	35	200	1700	0.34	553-1027-1-ND	.46	.27	.17	553-1027-2-ND	2,000	122.00/M	PE-0603CD680JTT
82	400	34	150	1700	0.54	553-1028-1-ND	.42	.24	.16	553-1028-2-ND	2,000	122.00/M	PE-0603CD820JTT
120	300	32	150	1300	0.65	553-1029-1-ND	.42	.24	.16	553-1029-2-ND	2,000	113.00/M	PE-0603CDR12JTT
220	200	25	100	900	1.9	553-1030-1-ND	.46	.27	.17	553-1030-2-ND	2,000	122.00/M	PE-0603CD221JTT
330	150	22	100	500	2.3	553-1031-1-ND	.46	.27	.17	553-1031-2-ND	2,000	122.00/M	PE-0603CD331JTT
390	130	20	100	350	2.9	553-1032-1-ND	.46	.27	.17	553-1032-2-ND	2,000	122.00/M	PE-0603CD391JTT
0805 Wire-Wound													
10	600	60	500	3900	0.10	553-1033-1-ND	.39	.23	.15	553-1033-2-ND	2,000	105.00/M	PE-0805CM100JTT
12	600	50	500	2900	0.13	553-1034-1-ND	.39	.23	.15	—	—	—	PE-0805CM120JTT
18	600	50	500	2600	0.13	553-1035-1-ND	.39	.23	.15	—	—	—	PE-0805CM180JTT
33	500	58	500	1800	0.18	553-1037-1-ND	.46	.27	.17	553-1037-2-ND	2,000	122.00/M	PE-0805CM330JTT
39	500	60	500	2000	0.23	553-1038-1-ND	.39	.23	.15	553-1038-2-ND	2,000	122.00/M	PE-0805CM390JTT
47	500	60	500	1650	0.25	553-1039-1-ND	.39	.23	.15	553-1039-2-ND	2,000	122.00/M	PE-0805CM470JTT
56	500	60	500	1300	0.16	553-1040-1-ND	.39	.23	.15	553-1040-2-ND	2,000	122.00/M	PE-0805CM560JTT
68	500	60	500	1350	0.18	553-1041-1-ND	.46	.27	.17	553-1041-2-ND	2,000	122.00/M	PE-0805CM680JTT
120	350	45	250	1100	0.56	553-1043-1-ND	.39	.23	.15	553-1043-2-ND	2,000	105.00/M	PE-0805CM121JTT
150	350	50	250	900	0.56	553-1044-1-ND	.39	.23	.15	553-1044-2-ND	2,000	105.00/M	PE-0805CM151JTT
330	300	40	100	775	1.28	553-1045-1-ND	.46	.27	.17	553-1045-2-ND	2,000	122.00/M	PE-0805CM331JTT
470	240	38	100	600	3.25	553-1046-1-ND	.46	.27	.17	553-1046-2-ND	2,000	122.00/M	PE-0805CM471JTT
560	240	40	100	600	3.1	553-1047-1-ND	.46	.27	.17	553-1047-2-ND	2,000	122.00/M	PE-0805CM561JTT
680	240	32	50	550	3.5	553-1048-1-ND	.46	.27	.17	553-1048-2-ND	2,000	122.00/M	PE-0805CM681JTT
820	200	23	50	215	2.35	553-1049-1-ND	.39	.23	.15	553-1049-2-ND	2,000	105.00/M	PE-0805CM821JTT

† Inductance measured using a HP4286A RF Impedance Analyzer. ‡ Based on a 15°C maximum temperature rise. § Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture. ▲ SRF measured using a HP8753C Network Analyzer. ◊ R_{DC} measured using a Valhalla Scientific model 4100 ATC Digital Ohmmeter.

SMT Power Inductors Unshielded Drum Core P0751/2 Series

Specifications:

- **Operating Temperature:** -40°C ~ 130°C
- **Footprint:** 13.0mm X 9.4mm maximum
- **Current Rating:** Up to 6.8A
- **Inductance Range:** 1.0µH ~ 1000µH

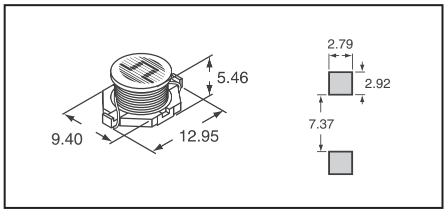

Inductance[1] @ IPK ADC (µH) ±20%	Irated[4] (A)	DCR Max. (mΩ)	Saturation[2] Current @ 25°C (A)	Heating[3] Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Qty.	Tape & Reel* Pricing	Pulse Part No.
1.5	6.4	12	8.0	6.4	553-1056-1-ND	.82	.48	.33	—	—	P0751.152NLT
3.3	5.4	18	6.4	5.4	553-1058-1-ND	.98	.57	.40	800	248.00	P0751.332NLT
4.7	4.8	33	5.4	4.8	553-1059-1-ND	.98	.57	.40	800	248.00	P0751.472NLT
6.8	4.4	44	4.6	4.4	553-1060-1-ND	.98	.57	.40	800	248.00	P0751.682NLT
10	3.8	50	3.8	3.9	553-1061-1-ND	.98	.57	.40	800	248.00	P0751.103NLT
15	3.0	55	3.0	3.1	553-1062-1-ND	.98	.57	.40	800	248.00	P0751.153NLT
22	2.6	114	2.6	2.7	553-1063-1-ND	.98	.57	.40	800	248.00	P0751.223NLT
33	2.0	120	2.0	2.1	553-1064-1-ND	.98	.57	.40	800	248.00	P0751.333NLT
47	1.6	168	1.6	1.8	553-1065-1-ND	.98	.57	.40	800	248.00	P0751.473NLT
68	1.4	240	1.4	1.5	553-1066-1-ND	.98	.57	.40	800	248.00	P0751.683NLT
100	1.2	380	1.2	1.3	553-1067-1-ND	1.03	.60	.42	800	261.60	P0752.104NLT
150	1.0	570	1.0	1.0	553-1068-1-ND	1.03	.60	.42	800	261.60	P0752.154NLT
220	0.8	840	0.8	0.8	553-1069-1-ND	1.03	.60	.42	800	261.60	P0752.224NLT
330	0.6	1020	0.6	0.6	553-1070-1-ND	1.03	.60	.42	800	261.60	P0752.334NLT
470	0.5	1460	0.5	0.5	553-1071-1-ND	1.03	.60	.42	800	261.60	P0752.474NLT
680	0.4	2170	0.4	0.4	553-1072-1-ND	1.03	.60	.42	800	261.60	P0752.684NLT
1000	0.3	3300	0.3	0.3	553-1073-1-ND	1.03	.60	.42	800	261.60	P0752.105NLT

Notes: The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.

1. Inductance tested at 100kHz, 10 mVRMS.
2. Inductance drop = 10% typical at the Saturation Current.
3. ΔT = 15°C rise typical at the Heating Current.
4. The rated current is the lower of the saturation or heating current.

* For Tape and Reel part number, change 1-ND to 2-ND.

SMT Power Inductor Shielded Drum Core P1167 Series

Specifications:

- **Operating Temperature:** -40°C ~ 130°C
- **Current Rating:** Up to 3.5A
- **Footprint:** 7.5mm x 7.5mm maximum
- **Inductance Range:** 1.8µH ~ 750µH

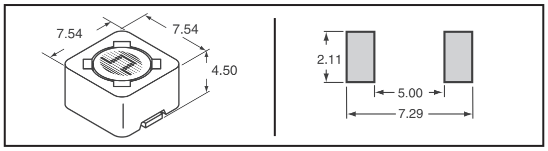

Inductance @ Rated Current (µH) Minimum	Rated Current IDC	DCR (mΩ) Typical	DCR (mΩ) Maximum	Inductance @ 0 IDC (µH) ±20%	Saturation Current @ 25°C (A)	Heating Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 900	Pulse Part No.
1.8	3.5	13	16	2.7*	3.5	3.6	553-1074-1-ND	1.34	.78	.54	553-1074-2-ND	382.50	P1167.272NLT
2.3	3.1	15	20	3.6*	3.1	3.4	553-1075-1-ND	1.34	.78	.54	553-1075-2-ND	382.50	P1167.362NLT
2.9	2.6	25	30	4.5*	2.9	2.6	553-1076-1-ND	1.28	.75	.52	—	—	P1167.452NLT
3.5	2.5	27	33	5.4*	2.7	2.5	553-1077-1-ND	1.34	.78	.54	553-1077-2-ND	382.50	P1167.542NLT
4.1	2.4	30	35	6.3*	2.5	2.4	553-1078-1-ND	1.34	.78	.54	553-1078-2-ND	382.50	P1167.632NLT
7.5	2.0	42	50	10	2.1	2.0	553-1079-1-ND	1.34	.78	.54	553-1079-2-ND	382.50	P1167.103NLT
9.0	1.9	46	57	12	1.9	1.9	553-1080-1-ND	1.34	.78	.54	553-1080-2-ND	382.50	P1167.123NLT
11.3	1.7	53	66	15	1.7	1.8	553-1081-1-ND	1.34	.78	.54	553-1081-2-ND	382.50	P1167.153NLT
13.5	1.5	59	73	18	1.5	1.7	553-1082-1-ND	1.34	.78	.54	553-1082-2-ND	382.50	P1167.183NLT
16.5	1.4	87	105	22	1.4	1.4	553-1083-1-ND	1.34	.78	.54	553-1083-2-ND	382.50	P1167.223NLT
20.3	1.2	100	130	27	1.2	1.3	553-1084-1-ND	1.34	.78	.54	553-1084-2-ND	382.50	P1167.273NLT
24.8	1.1	139	170	33	1.1	1.1	553-1085-1-ND	1.34	.78	.54	553-1085-2-ND	382.50	P1167.333NLT
29.3	1.0	156	200	39	1.0	1.0	553-1086-1-ND	1.34	.78	.54	553-1086-2-ND	382.50	P1167.393NLT
35.3	0.94	173	220	47	0.94	1.0	553-1087-1-ND	1.34	.78	.54	553-1087-2-ND	382.50	P1167.473NLT
42.0	0.88	225	270	56	0.86	0.86	553-1088-1-ND	1.34	.78	.54	553-1088-2-ND	382.50	P1167.563NLT
51.0	0.78	251	310	68	0.78	0.81	553-1089-1-ND	1.34	.78	.54	553-1089-2-ND	382.50	P1167.683NLT
61.5	0.70	282	350	82	0.70	0.77	553-1090-1-ND	1.34	.78	.54	553-1090-2-ND	382.50	P1167.823NLT
75.0	0.63	317	390	100	0.63	.072	553-1091-1-ND	1.34	.78	.54	553-1091-2-ND	382.50	P1167.104NLT
113	0.52	497	610	150	0.52	0.58	553-1093-1-ND	1.34	.78	.54	553-1093-2-ND	382.50	P1167.154NLT
135	0.47	635	820	180	0.47	0.51	553-1094-1-ND	1.34	.78	.54	553-1094-2-ND	382.50	P1167.184NLT
165	0.43	745	930	220	0.43	0.47	553-1095-1-ND	1.34	.78	.54	553-1095-2-ND	382.50	P1167.224NLT
248	0.35	1162	1470	330	0.35	0.38	553-1097-1-ND	1.34	.78	.54	553-1097-2-ND	382.50	P1167.334NLT
293	0.32	1237	1570	390	0.32	0.37	553-1098-1-ND	1.28	.75	.52	—	—	P1167.394NLT
353	0.29	1688	2180	470	0.29	0.31	553-1099-1-ND	1.34	.78	.54	553-1099-2-ND	382.50	P1167.474NLT
420	0.26	2240	2960	560	0.26	0.27	553-1100-1-ND	1.28	.75	.52	—	—	P1167.564NLT
510	0.23	2402	3180	680	0.23	0.26	553-1101-1-ND	1.28	.75	.52	—	—	P1167.684NLT
750	0.19	3703	4930	1000	0.19	0.21	553-1103-1-ND	1.28	.75	.52	—	—	P1167.105NLT

* Inductance at 0 IDC tolerance on indicated part numbers is ±30%; tolerance is ±20% on all other parts.

Toroid Power Inductors — Bare Coil Series

Specifications: • **Current Range:** Up to 48A • **Frequency Range:** Up to 1MHz • **Operating Temperature:** -40°C ~ 130°C • **Electrical Specifications:** Measured at 25°C

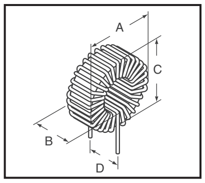

Inductance @ Rated Current (µH) Typical	Rated Current IDC	DCR Maximum (mΩ)	Inductance @ 0 IDC (µH) ±20%	Dimensions – Inches (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Pulse Part No.
1.05	19.0	2.7	2.24	.604 (15.30)	.323 (8.20)	.556 (14.10)	.250 (6.40)	553-1112-ND	1.02	.58	.38	PA0489L
1.81	14.3	5.0	3.50	.610 (15.50)	.325 (8.30)	—	.300 (7.60)	553-1114-ND	.92	.53	.34	P1715L
3.22	20.5	5.5	7.80	.874 (22.20)	.374 (9.50)	—	.240 (6.10)	553-1115-ND	1.03	.60	.42	PA0431L
5.00	20.5	7.5	12.10	.980 (24.90)	.440 (11.20)	.980 (24.90)	.310 (7.90)	553-1116-ND	1.23	.72	.50	PA0432L

Power Toroid Inductors - for National Simple Switcher™

Specifications: • Base Material meets flammability requirements of UL94V-0 • Operating Temperature: -40°C ~ 130°C

150kHz Inductors are tested and recommended by National Semiconductor for the LM259X series regulators.

260kHz Inductors are tested and recommended by National Semiconductor for the LM267X series regulators.

Fig. 1

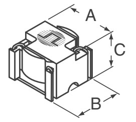

Fig. 2

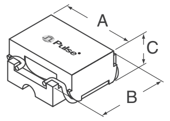

Fig. 3

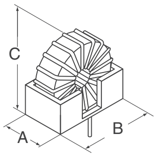

Package Type	Dimensions – Inches (mm)		
	A	B	C
LCI-20	.340 (8.64)	.340 (8.64)	.270 (6.86)
LCI-30	.435 (11.05)	.440 (11.18)	.360 (9.14)
LCI-37	.565 (14.35)	.570 (14.48)	.360 (9.14)
LCI-44	.600 (15.24)	.620 (15.75)	.390 (9.91)
LCI-50	.670 (17.02)	.700 (17.78)	.390 (9.91)
HCI-68	.940 (23.87)	.940 (23.87)	.400 (10.16)

Package Type	Dimensions – Inches (mm)			Lead Space
	A	B	C	
Big Foot	1.00 (25.40)	1.22 (30.99)	0.50 (12.70)	—
KM-1.1	0.35 (8.89)	0.58 (14.74)	0.71 (18.17)	0.22 (5.60)
KM-2.0	0.45 (11.43)	0.65 (21.08)	0.70 (17.78)	0.30 (7.62)
KM-2.1	0.46 (11.69)	0.67 (17.02)	0.75 (19.05)	0.30 (7.62)
KM-3.0	0.45 (11.43)	0.83 (21.09)	0.95 (24.13)	0.30 (7.62)
KM-4.0	0.60 (15.24)	0.95 (24.13)	1.35 (34.29)	0.45 (11.44)

150kHz Inductors

Fig.	Package Type	Inductance Nominal (μH) ±20%	Rated Current (IDC)	ET_{OP} Maximum (V-μSec)*	DCR Nominal (Ω)	National Reference No.	Digi-Key Part No.	Price Each			Pulse Part No.
								1	10	100	
1	LCI-20	178	0.16	16.5	2.8	LM259X-L2	553-1390-ND◆	2.18	1.48	1.14	PE-53802SNL
	LCI-20	55	0.3	6.6	1.0	LM259X-L5	553-1270-5-ND	2.16	1.41	1.08	PE-53805S
	LCI-20	39	0.34	6.6	0.8	LM259X-L6	553-1392-ND◆	1.95	1.27	.97	PE-53806SNL
	LCI-30	374	0.2	75.9	2.7	LM259X-L8	553-1393-ND◆	1.72	1.07	.78	PE-53808SNL
	LCI-30	176	0.3	26.4	1.4	LM259X-L10	553-1394-ND◆	1.68	1.04	.76	PE-53810SNL
	LCI-30	118	0.38	19.8	1.2	LM259X-L11	553-1395-ND◆	1.68	1.04	.76	PE-53811SNL
	LCI-30	78	0.46	16.5	0.8	LM259X-L12	553-1396-ND◆	2.09	1.36	1.04	PE-53812SNL
	LCI-30	39	0.68	9.9	0.3	LM259X-L14	553-1398-ND◆	2.08	1.29	.95	PE-53814SNL
	LCI-30	26	0.84	6.6	0.2	LM259X-L15	553-1399-ND◆	1.92	1.19	.87	PE-53815SNL
	LCI-30	17	1.02	6.6	0.1	LM259X-L16	553-1400-ND◆	1.95	1.27	.97	PE-53816SNL
	LCI-37	375	0.36	75.9	1.3	LM259X-L17	553-1401-ND◆	2.09	1.36	1.04	PE-53817SNL
	LCI-37	252	0.44	49.5	0.9	LM259X-L18	553-1281-5-ND	1.88	1.22	.94	PE-53818S
	LCI-37	252	0.44	49.5	0.9	LM259X-L18	553-1438-ND◆	1.75	1.13	.87	PE-53818SNL
	LCI-37	173	0.54	36.30	0.6	LM259X-L19	553-1402-ND◆	1.68	1.04	.76	PE-53819SNL
	LCI-37	115	0.67	29.7	0.4	LM259X-L20	553-1403-ND◆	2.33	1.52	1.16	PE-53820SNL
	LCI-37	78	0.82	23.1	0.3	LM259X-L21	553-1404-ND◆	1.95	1.27	.97	PE-53821SNL
	LCI-37	54	1.0	16.5	0.2	LM259X-L22	553-1405-ND◆	1.95	1.27	.97	PE-53822SNL
	LCI-37	38	1.2	13.2	0.1	LM259X-L23	553-1406-ND◆	1.95	1.27	.97	PE-53823SNL
	LCI-37	26	1.48	9.9	0.1	LM259X-L24	553-1407-ND◆	2.08	1.29	.95	PE-53824SNL
	LCI-37	18	1.81	9.9	0.06	LM259X-L25	553-1408-ND◆	1.95	1.27	.97	PE-53825SNL
	LCI-44	377	0.68	75.9	1.0	LM259X-L26	553-1409-ND◆	1.95	1.27	.97	PE-53826SNL
	LCI-44	248	0.83	72.6	0.6	LM259X-L27	553-1410-ND◆	1.95	1.27	.97	PE-53827SNL
	LCI-44	168	1.02	56.1	0.4	LM259X-L28	553-1411-ND◆	1.95	1.27	.97	PE-53828SNL
	LCI-44	112	1.26	42.9	0.3	LM259X-L29	553-1412-ND◆	1.91	1.25	.96	PE-53829SNL
	LCI-44	77	1.54	33	0.2	LM259X-L30	553-1413-ND◆	2.08	1.29	.95	PE-53830SNL
	LCI-44	53	1.87	26.4	0.13	LM259X-L31	553-1414-ND◆	2.08	1.29	.95	PE-53831SNL
	LCI-44	37	2.24	19.8	0.1	LM259X-L32	553-1415-ND◆	1.95	1.27	.97	PE-53932SNL
	LCI-44	24	2.74	16.5	0.07	LM259X-L33	553-1416-ND◆	1.95	1.27	.97	PE-53933SNL
	LCI-44	17	3.0	13.2	0.05	LM259X-L34	553-1417-ND◆	2.08	1.29	.95	PE-53934SNL
2	HCI-68	250	1.5	72.6	0.23	LM259X-L35	553-1418-ND◆	2.30	1.50	1.15	PE-53935SNL
	HCI-68	168	1.81	75.9	0.18	LM259X-L36	553-1419-ND◆	2.71	1.77	1.35	PE-54036SNL
	HCI-68	114	2.22	62.7	0.1	LM259X-L37	553-1420-ND◆	2.64	1.72	1.32	PE-54037SNL
	HCI-68	77	2.7	52.8	0.09	LM259X-L38	553-1421-ND◆	2.68	1.74	1.34	PE-54038SNL
	HCI-68	38	3.0	29.7	0.05	LM259X-L40	553-1303-5-ND	2.26	1.47	1.13	PE-54040S
	HCI-68	38	3.0	29.7	0.05	LM259X-L40	553-1423-ND◆	2.12	1.38	1.06	PE-54040SNL
1	LCI-50	25	3.0	19.8	0.04	LM259X-L41	553-1424-ND◆	2.17	1.34	.98	PE-54041SNL
2	HCI-68	77	3.0	59.4	0.08	LM259X-L44	553-1305-5-ND	2.71	1.77	1.35	PE-54044S
	HCI-68	77	3.0	59.4	0.08	LM259X-L44	553-1425-ND◆	2.71	1.77	1.35	PE-54044SNL

* ET_{OP} rated at 150kHz. ◆ ***RoHS Compliant***

260kHz Inductors

Fig.	Package Type	Inductance Nominal (μH) ±20%	Rated Current (IDC)	ET_{OP} Maximum (V-μSec)‡	DCR Nominal (Ω)	National Reference No.	Digi-Key Part No.	Price Each			Pulse Part No.
								1	10	100	
KlipMount™											
3	KM-3.0	22.8	4.9	23.3	.036	LM267X-L41	553-1117-ND	3.10	2.02	1.54	P0841NL
	KM-1.1	10.2	4.3	10	.026	LM267X-L45	553-1118-ND	1.55	.96	.71	P0845NL
	KM-2.1	14.8	5.0	17	.023	LM267X-L46	553-1119-ND	2.00	1.24	.91	P0846NL
	KM-2.0	10	5.0	13	.025	LM267X-L47	553-1120-ND	1.76	1.09	.80	P0847NL
	KM-4.0	50	5.0	40	.050	LM267X-L48	553-1121-ND	3.03	1.97	1.51	P0848NL
	KM-4.0	33	5.0	36	.047	LM267X-L49	553-1122-ND	3.13	2.04	1.56	P0849NL
	KM-3.0	23	5.0	24	.026	LM267X-L50	553-1123-ND	3.13	2.04	1.56	P0850NL
Surface Mount											
2	HCI-68	22.8	4.9	23.3	.036	LM267X-L41	553-1124-ND	2.26	1.47	1.13	P0841SNL
1	LCI-44	10	4.3	10	.050	LM267X-L45	553-1125-5-ND	1.72	1.07	.78	P0845SNL
	LCI-50	15	5.0	17	.027	LM267X-L46	553-1126-5-ND	1.88	1.17	.85	P0846SNL
	LCI-50	11	5.0	13	.025	LM267X-L47	553-1127-5-ND	2.17	1.34	.98	P0847SNL
2	Big Foot	52	5.0	40	.025	LM267X-L48	553-1128-ND	3.51	2.29	1.75	P0848SNL
		36	5.0	36	.019	LM267X-L49	553-1129-ND	3.62	2.35	1.80	P0849SNL
		24.7	5.0	24	.013	LM267X-L50	553-1130-ND	3.48	2.26	1.73	P0850SNL

‡ ET_{OP} rated at 260kHz. ***Note:*** Simple Switcher is a trademark of National Semiconductor.

Pulse A TECHNITROL COMPANY

SMT Power Inductor Toroid SLIC Series

Specifications: • **Operating Temperature:** -40°C ~ 130°C • **Current Ratings:** up to 23.8 ADC • **Frequency Range:** up to 1MHz

Fig. 1

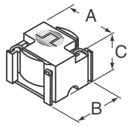

Package	Dimensions – Inch (mm)		
	A	B	C
LCI-20	.340 (8.64)	.340 (8.64)	.270 (6.86)
LCI-30	.435 (11.05)	.440 (11.18)	.360 (9.14)
LCI-37	.565 (14.35)	.570 (14.48)	.360 (9.14)
LCI-44	.600 (15.24)	.620 (15.75)	.390 (9.91)
LCI-50	.670 (17.02)	.700 (17.78)	.390 (9.91)

Fig. 2

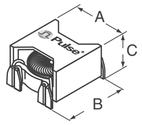

Package	Dimensions – Inch (mm)		
	A	B	C
LCCI-44	.590 (14.99)	.715 (18.16)	.390 (9.91)

Fig. 3

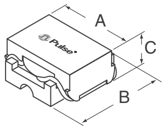

Package	Dimensions – Inch (mm)		
	A	B	C†
HCI-37	.620 (15.75)	.605 (15.37)	.370 (9.40)
HCI-44	.670 (17.02)	.670 (17.02)	.390 (9.91)
HCI-50	.740 (18.80)	.740 (18.80)	.390 (9.91)
HCI-68	.940 (23.88)	.940 (23.88)	.390 (9.91)

Fig.	Inductance @ Irated (μH)	Irated (A)	Inductance @ 0 ADC (μH)	DCR (mΩ) Typical	DCR (mΩ) Maximum	Reference ET (Volt-uSec)	Package Type	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Pulse Part No.
							Low Current Inductors - LCI Type — RoHS Compliant					
1	1.01	3.4	1.1	9.35	11	0.53	LCI-20	553-1434-ND	1.25	.77	.58	PE-53630NL
	2.5	8.0	3.8	7.055	8.3	1.77	LCI-37	553-1383-ND	1.55	.96	.71	PE-53661NL
	3.8	4.8	5.2	14.705	17.3	1.76	LCI-30	553-1436-ND†	1.00	.63	.47	PE-53650NL
	5.1	5.4	7.5	15.045	17.7	2.51	LCI-37	553-1380-ND	1.59	.99	.73	PE-53651NL
	9.0	5.5	14	25.0	28	4.06	LCI-44	553-1381-ND	1.49	.87	.60	PE-53652NL
	9.3	7.2	16	15.895	18.7	4.9	LCI-50	553-1384-ND	1.80	1.12	.82	PE-53663NL
	9.4	2.8	12.3	36.89	43.4	2.70	LCI-30	553-1435-ND	1.17	.72	.54	PE-53631NL
	16.1	5.1	25.9	27.2	32	6.27	LCI-50	553-1382-ND	1.47	.91	.67	PE-53653NL
	16.2	2.7	21.9	63.0	72	4.29	LCI-37	553-1377-ND	1.51	.94	.69	PE-53632NL
	29.1	2.7	40.5	85.0	100	6.90	LCI-44	553-1378-ND	1.43	.89	.65	PE-53633NL
	29.7	1.4	35.3	141.1	166	4.60	LCI-30	553-1371-ND	1.44	.84	.58	PE-53602NL
	50	2.6	72.9	113.05	133	10.5	LCI-50	553-1379-ND	1.59	.99	.73	PE-53634NL
	58.1	1.3	73	246.5	290	7.83	LCI-37	553-1372-ND	1.64	1.01	.74	PE-53604NL
	114	0.94	167	365	405	10.0	LCI-30	553-1433-ND	1.22	.77	.58	PE-53606NL
	192	0.90	292	476	560	15.7	LCI-37	553-1373-ND	1.80	1.12	.82	PE-53608NL
	383	0.72	672	732.7	862	23.5	LCI-37	553-1374-ND	2.25	1.39	1.02	PE-53611NL
	645	0.74	1134	1062.5	1250	36.5	LCI-44	553-1375-ND	1.64	1.01	.74	PE-53613NL
	1070	0.71	1950	1445	1700	54.4	LCI-50	553-1376-ND	1.59	.99	.73	PE-53614NL
							Low Current Coupled Inductors - LCCI Type					
2	21.9	2.7	39.5	72.4	90.5	6.90	LCCI-44	553-1153-ND	2.02	1.31	1.01	PE-53718
							High Current Inductors - HCI Type					
3	0.81	14.3	1.25	2.125	2.5	1.035	HCI-37	553-1155-ND	1.84	1.14	.84	PE-53690
	1.32	11.5	2.1	3.4	4.0	1.33	HCI-37	553-1385-ND◆	1.72	1.07	.78	PE-53680NL
	1.68	13.9	2.8	3.06	3.6	1.83	HCI-44	553-1388-ND†◆	1.64	1.01	.74	PE-53691NL
	2.5	11.4	4.2	4.59	5.4	2.23	HCI-44	553-1386-ND◆	1.64	1.01	.74	PE-53681NL
	3.5	12.4	6.5	5.61	6.6	3.10	HCI-50	553-1159-ND†	2.00	1.24	.91	PE-53692
	3.5	12.4	6.5	5.61	6.6	3.10	HCI-50	553-1437-ND†◆	1.69	1.09	.83	PE-53692NL
	5.2	15.4	10.5	5.27	6.2	5.21	HCI-68	553-1389-ND†◆	2.29	1.42	1.04	PE-53700NL
	9.4	10.9	17.6	10.455	12.3	6.84	HCI-68	553-1387-ND◆	2.04	1.27	.93	PE-53683NL

† Dimension "C" is .400" (10.16mm) for the marked models because of heavier wire gauge.
Note: Electrical Specification tested at 25°C. Reference values are for an inductor with a 55°C temperature rise.
◆ ***RoHS Compliant***

Telecommunication Transformers T1/E1 and T3/E3

Transformers designed for digital and analog telecom applications supporting a wide variety of leading transceiver IC manufacturers.

Specifications: • **Standard Operating Temperature:** 0°C ~ 70°C • **Extended Temperature:** -40°C ~ 85°C • **Agency Approvals:** UL1459 / UL1950, EN60950 per BABT • **Isolation Voltage:** 1500Vrms

Fig. 1

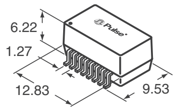

Fig. 2

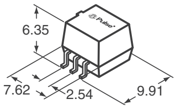

Schematic:

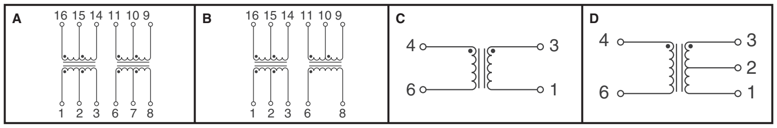

Fig.	Schematic	Temperature Rating	Turns Ratio B Primary : Secondary (±5%)	Primary Inductance (mH Minimum)	Primary Pins	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Pulse Part No.
				T1/E1 Dual Transmit and Receive Transformer						
1	A	Standard	1CT:1CT / 1CT:2CT	1.2	16-14,6-8	553-1445-ND◆	3.06	2.04	1.67	PE-68678NL
			1CT:1.41CT / 1CT:1.41CT	1.0	16-14, 11-9	553-1169-ND	3.55	2.31	1.77	PE-68786
			1CT:1.41CT / 1CT:1.41CT	1.0	16-14, 11-9	553-1446-ND◆	3.06	2.04	1.67	PE-68786NL
			1CT:2CT / 1CT:2CT	1.2	16-14,6-8	553-1170-ND	3.55	2.31	1.77	PE-65861
	A	Standard	1CT:2CT / 1CT:2CT	1.2	16-14,6-8	553-1440-ND◆	3.06	2.04	1.67	PE-65861NL
		Standard	1CT:2.42CT / 1CT:2.42CT	1.2	1-3, 6-8	553-1171-ND	3.55	2.31	1.77	T1137
		Standard	1CT:2.42CT / 1CT:2.42CT	1.2	1-3, 6-8	553-1450-ND◆	3.06	2.04	1.67	T1137NL
		Extended	1CT:1CT / 1CT:2CT	1.2	16-14,6-8	553-1172-ND	3.55	2.31	1.77	T1094
		Extended	1CT:1CT / 1CT:2CT	1.2	16-14,6-8	553-1449-ND◆	3.06	2.04	1.67	T1094NL
	A	Extended	1CT:1CT / 1CT:2.4CT	1.0	9-11, 1-3	553-1451-ND◆	3.06	2.04	1.67	T1144NL
			1CT:1.15C T / 1CT:1.15CT	1.2	1-3, 6-8	553-1448-ND◆	3.06	2.04	1.67	T1093NL
			1CT:2CT / 1CT:2CT	1.2	16-14,6-8	553-1177-ND	3.55	2.31	1.77	T1090
			1CT:2CT / 1CT:2CT	1.2	16-14,6-8	553-1447-ND◆	3.06	2.04	1.67	T1090NL
	A	Extended	1CT:2.42CT / 1CT:2.42CT	1.2	1-3, 6-8	553-1178-ND	3.55	2.31	1.77	TX1287
	B		1CT:2CT / 1:1.36CT	1.2	16-14,6-8	553-1176-ND	3.55	2.31	1.77	T1091
				T3/E3 Single Transmit and Receive Transformer						
2	C	Standard	1:1#	.040	4-6	553-1179-ND	4.59	2.99	2.29	PE-65967
		Standard	1:1#	.040	4-6	553-1441-ND◆	3.83	2.64	2.16	PE-65967NL
		Extended	1:1#	.100	1-3	553-1181-ND	4.91	3.19	2.44	T3001
		Extended	1:1#	.100	1-3	553-1452-ND◆	4.09	2.82	2.30	T3001NL
	D	Standard	1:2CT#	.019	4-6	553-1442-ND◆	3.83	2.64	2.16	PE-65968NL
		Extended	1:2CT#	.040	4-6	553-1453-ND◆	4.09	2.82	2.30	T3002NL

# Primary : Secondary Tolerance is ±2% ◆ ***RoHS Compliant***

LAN Discrete Modules

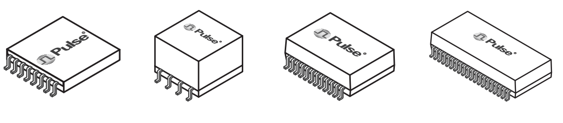

Pulse offers the most comprehensive line of discrete LAN magnetics modules available to the OEM worldwide. With technological advancements such as patented InterLock Base construction. Modules for 10/100/1000BASE-TX (Gigabit), 10/100BASE-TX, 10BASE-T, and ATM applications are optimized for all major LAN transceivers. All modules provide electrical circuit isolation that meets applicable IEEE and ANSI standards, while maintaining signal integrity needed for the most demanding applications. 10BASE-T modules have various levels of filtering for use with each referenced IC. 10/100BASE-TX and Gigabit modules provide "tuned" common mode noise attenuation best matched to the transceiver being considered.

Operating Temperature: 0°C ~ 70°C (unless otherwise noted)

No. of Ports	Turns Ratio	Configuration*	Package Style**	Package L x W x H*** Inches (mm) - Maximum	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Pulse Part No.
Gigabit Ethernet 10/100/1000BASE-T									
1	1CT:1CT	T,C	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16 x 5.71)	553-1189-ND	8.71	6.38	5.28	H5004
	1CT:1CT	T,C	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16 x 5.71)	553-1430-ND◆	7.30	5.26	4.38	H5004NL
	1CT:1CT	T,C	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16 x 5.71)	553-1343-ND§◆	8.21	6.01	4.98	HX5004NL
	1CT:1	T,C,S	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16 x 5.71)	553-1334-ND◆	6.45	4.42	3.52	H5007NL
	1CT:1CT	T,C,S	24-PIN SMD	.537 x .740 x .225 (13.64 x 18.80 x 5.71)	553-1335-ND◆	10.23	7.01	5.57	H5008NL
	1CT:1CT	T,C	24-PIN SOIC	.650 x .380 x .082 (16.51 x 9.65 x 2.08)	553-1454-5-ND◆	6.68	4.89	4.25	H5120NL
	1CT:1	T,C,S	24-PIN SMD	.537 x .740 x .225 (13.64 x 18.80 x 5.71)	553-1344-ND§◆	8.94	6.54	5.42	HX5008NL
	1CT:1CT	T,C	24-PIN SOIC	.542 x .750 x .230 (13.77 x 19.05 x 5.84)	553-1462-5-ND§◆	8.13	6.02	5.37	HX5009NL
2	1CT:1CT	T,C,S	48-PIN SMD	1.095 x .600 x .285 (27.81 x 15.24 x 7.24)	553-1336-ND◊◆	13.61	9.96	8.25	H5012NL
	1CT:1CT	T,C	48-PIN SMD	1.095 x .600 x .285 (27.81 x 15.24 x 7.24)	553-1337-ND◊◆	11.82	8.65	7.17	H5014NL
	1CT:1CT	T,C	48-PIN BGA	.580 x .680 x .440 (14.73 x 17.27 x 11.18)	553-1455-ND◆	9.79	7.35	6.74	H5200NL
	1CT:1CT	C,T	48-PIN BGA	.580 x .680 x .440 (14.73 x 17.27 x 11.18)	553-1456-ND‡◆	9.79	7.35	6.74	H5201NL
	1CT:1CT	T,C	48-PIN SMD	1.095 x .600 x .285 (27.81 x 15.24 x 7.24)	553-1431-ND§◊◆	11.43	8.79	7.37	HX5014NL
	1CT:1CT	T,C	50-PIN SMD	1.100 x .430 x .340 (27.94 x 10.92 x 8.64)	553-1338-ND◊◆	12.93	9.46	7.84	H5020NL
	1CT:1CT	T,C	50-PIN SMD	1.100 x .430 x .340 (27.94 x 10.92 x 8.64)	553-1432-ND§◊◆	11.43	8.79	7.37	HX5020NL
4	1CT:1CT	T,C	96-PIN BGA	1.120 x .680 x .440 (28.45 x 17.27 x 11.18)	553-1457-ND◆	16.98	13.13	12.74	H5400NL
	1CT:1CT	C,T	96-PIN BGA	1.120 x .680 x .440 (28.45 x 17.27 x 11.18)	553-1458-ND‡◆	16.98	13.13	12.74	H5401NL

No. of Ports	Turns Ratio	Configuration* TX	Configuration* RX	Package Style**	Package L x W x H*** Inches (mm) - Maximum	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Pulse Part No.
Fast Ethernet 10/100BASE-TX										
1	1CT:1CT	T,C	C,T	16-PIN SOIC	.560 x .670 x .082 (14.22 x 17.02 x 2.08)	553-1314-ND◆	5.28	3.62	2.88	H0009NL
	1CT:1CT	T,C	C,T	16-PIN SOIC	.500 x .380 x .084 (12.7 x 9.65 x 2.13)	553-1315-ND◆	5.46	3.74	2.98	H0019NL
	1CT:1CT	T,C,S	C,T	12-PIN SOIC	.465 x .450 x .085 (11.81 x 11.43 x 2.16)	553-1316-ND◆	6.00	4.11	3.27	H0022NL
	1CT:1CT	T,C,S	C,T	16-PIN SMT	1.00 x .505 x .245 (25.4 x 12.83 x 6.22)	553-1317-ND◆	4.26	2.92	2.32	H1012NL
	1CT:1CT	T,C	T,C	16-PIN SOIC	.500 x .370 x .235 (12.7 x 9.4 x 5.97)	553-1323-ND◆	3.84	2.63	2.10	H1102NL
	1CT:1CT	T,C,S	C,T	12-PIN SMD	.583 x .580 x .192 (14.81 x 14.73 x 4.88)	553-1324-ND◆	3.93	2.69	2.14	H1112NL
	1CT:1CT	T,C	T,C	16-PIN SOIC	.500 x .380 x .236 (12.7 x 9.65 x 5.99)	553-1205-ND	4.42	2.88	2.21	H1260
	1CT:1CT	T,C	T,C	16-PIN SOIC	.500 x .380 x .236 (12.7 x 9.65 x 5.99)	553-1328-ND◆	3.83	2.49	1.91	H1260NL
	1CT:1CT	T,C,S	C,T	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16.00 x 5.71)	553-1206-ND	4.21	2.74	2.11	H1267
	1CT:1CT	T,C,S	C,T	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16.00 x 5.71)	553-1429-ND◆	3.48	2.32	1.90	H1267NL
	1CT:1CT	T,C,S	C,T	16-PIN SMT	1.00 x .505 x .245 (25.4 x 12.83 x 6.22)	553-1339-ND§◆	6.81	4.66	3.71	HX1148NL
	1CT:1CT	T,C	T,C	16-PIN SOIC	.500 x .380 x .235 (12.7 x 9.65 x 5.97)	553-1340-ND§◆	4.63	3.01	2.30	HX1188NL
	1CT:1CT	C,T	C,T	16-PIN SOIC	.500 x .380 x .235 (12.7 x 9.65 x 5.97)	553-1341-ND§◆	3.48	2.39	1.90	HX1198NL
2	1CT:1CT	T,C,S	C,T	40-PIN SOIC	1.125 x .640 x .230 (28.58 x 16.26 x 5.84)	553-1318-ND◆	9.15	6.27	4.99	H1028NL
	1CT:1CT	T,C	C,T	24-PIN SMD	.515 x .590 x .145 (13.08 x 14.99 x 3.68)	553-1326-ND◊◆	6.93	4.75	3.78	H1174NL
	1CT:1CT	T,C	T,C	24-PIN SMD	.515 x .590 x .145 (13.08 x 14.99 x 3.68)	553-1329-ND◊◆	6.60	4.52	3.60	H1270NL
	1CT:1CT	T,C	C,T	24-PIN SOIC	.743 x .538 x .231 (18.87 x 13.67 x 5.87)	553-1460-5-ND◆	5.36	3.81	3.22	HX1294NL
4	1CT:1CT	T,C	T,C	40-PIN SOIC	1.125 x .630 x .230 (28.58 x 16.00 x 5.84)	553-1325-ND‡◆	8.89	6.51	5.39	H1164NL
	1CT:1CT	T,C	T,C	40-PIN SOIC	1.120 x .630 x .280 (28.45 x 16.00 x 7.11)	553-1459-5-ND§◆	6.86	5.02	4.36	HX1204NL
	1CT:1CT	T,C	T,C	40-PIN SOIC	1.125 x .630 x .230 (28.58 x 16.00 x 5.84)	553-1342-ND§‡◆	9.47	6.93	5.74	HX1234NL
10BASE-T Filter Modules										
1	1CT:1CT	F,T,C	F,T,C	16-PIN SMT	.920 x .500 x .230 (23.37 x 12.7 x 5.84)	553-1223-ND	8.79	6.02	4.79	PE-68026
	1CT:1CT	F,T,C	F,T	16-PIN THT	1.005 x .405 x .338 (25.53 x 10.29 x 8.59)	553-1428-ND◆	5.02	3.46	2.82	FL1012NL
	1CT:1CT	F,T,C	F,TC	10-PIN SIL	.900 x .210 x .450 (22.86 x 5.33 x 11.43)	553-1225-ND	6.48	4.44	3.53	PE-68017S
	1CT:1CT	F,T,C	F,TC	10-PIN SIL	.900 x .210 x .450 (22.86 x 5.33 x 11.43)	553-1444-ND◆	5.80	4.04	3.32	PE-68017SNL
10BASE-T Transformer/Choke Modules										
1	1CT:1CT:2CT	T,C	T,C	16-PIN SOIC	.457 x .375 x .233 (11.61 x 9.53 x 5.92)	553-1226-ND	4.32	2.96	2.36	ST4202T
VoIP (Voice over Internet Protocol) Transformer Modules										
2	1CT:1CT	T,C,S	C,T	24-PIN SMD	.510 x .740 x .280 (12.95 x 18.8 x 7.11)	553-1228-ND	7.26	4.97	3.96	H2005A
	1CT:1CT	T,C,S	C,T	24-PIN SMD	.510 x .740 x .280 (12.95 x 18.8 x 7.11)	553-1330-ND◆	6.60	4.52	3.60	H2005ANL
	1CT:1CT	T,C,S	T	24-PIN SMD	.537 x .590 x .245 (13.64 x 14.99 x 6.22)	553-1229-ND	6.39	4.38	3.48	H2008
	1CT:1CT	T,C,S	T	24-PIN SMD	.537 x .590 x .245 (13.64 x 14.99 x 6.22)	553-1331-ND◆	5.85	4.01	3.19	H2008NL
1	1CT:1CT	T,C	T,C	16-PIN SOIC	.500 x .370 x .235 (12.7 x 9.4 x 5.97)	553-1333-ND◆	5.67	3.88	3.09	H2019NL
AUI Ethernet Transformer — RoHS Compliant										
—	1:1	—	—	16-PIN SOIC	.500 x .370 x .200 (12.7 x 9.4 x 5.08)	553-1439-ND	2.24	1.46	1.15	PE-65728NL

No. of Lines	Inductance (µH) Minimum	DC Resistance (Ω) Maximum	Package Style**	Package L x W x H*** Inches (mm) - Maximum	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Pulse Part No.
LAN Common Mode Chokes									
4	68	0.20	8-PIN SOIC	.230 x .360 x .215 (5.84 x 9.14 x 5.46)	553-1233-ND	2.40	1.56	1.20	23Z104SM
	68	0.20	8-PIN SOIC	.230 x .360 x .215 (5.84 x 9.14 x 5.46)	553-1427-ND◆	2.11	1.37	1.08	23Z104SMNL
	100	0.60	8-PIN SMT	.475 x .600 x .340 (12.06 x 15.24 x 8.64)	553-1234-ND	3.51	2.41	1.92	PE-67540
	100	0.60	8-PIN SMT	.475 x .600 x .340 (12.06 x 15.24 x 8.64)	553-1443-ND◆	3.24	2.16	1.77	PE-67540NL
	140	0.60	8-PIN DIP	.500 x .500 x .375 (12.7 x 12.7 x 9.52)	553-1235-ND	3.51	2.29	1.75	PE-67539

* F = Filter, T = Transformer, C = Chokes, S = Shunt Inductor

** SOIC = 50 mil pitch leads, SMT = 100 mil pitch leads (Surface Mount), THT = Through Hole, DIP = Dual In-Package (Through Hole), SIL = Single In-Line (Through Hole), SMD = Varying lead pitch (Surface Mount), BGA = Ball Grid Array

*** L x W x H = Width is measured on surface mount parts pin-tip to pin-tip (height includes wash area)

§ Suitable for industrial temperature applications, -40°C ~ 85°C

◊ .039" (0.99mm) pitch leads

‡ Each has a different pinout for optimization in layout with various IC Manufacturers

◆ ***RoHS Compliant***

Transformers and Inductors

Fig. 1

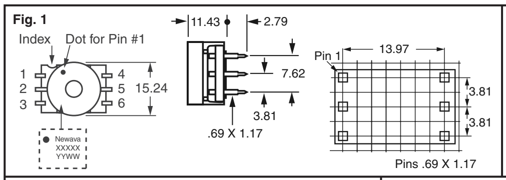

Fig. 2

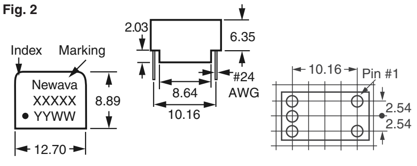

Fig. 3

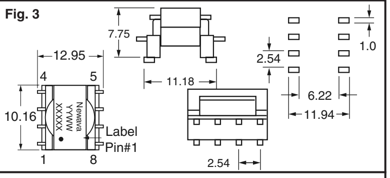

Fig. 4

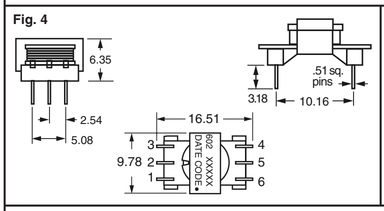

Fig. 5

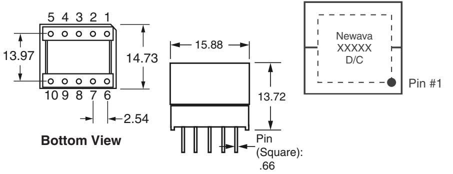

Bottom View

Fig. 6

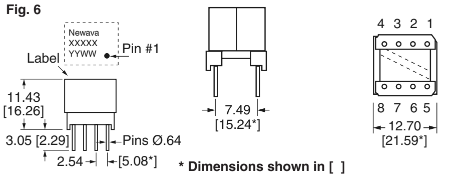

* Dimensions shown in [ ] are for part number 470-1011-ND

Fig. 7

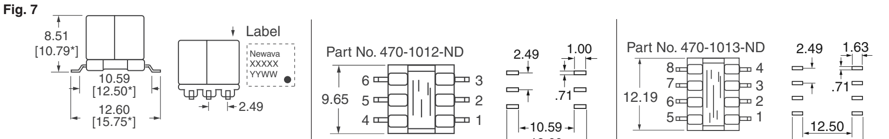

* Dimensions shown in [ ] are for part number 470-1013-ND

Fig. 8

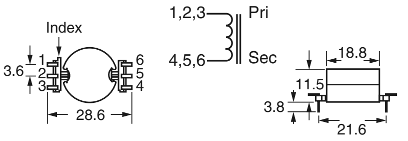

Fig. 9

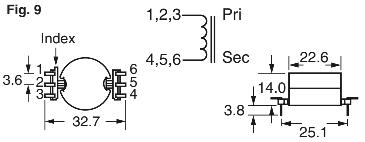

Fig. 10

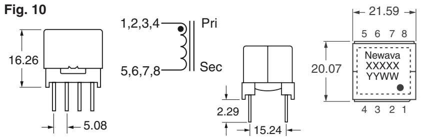

Fig. 11

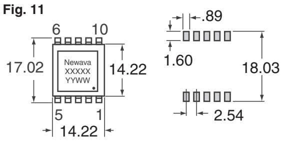

Mechanicals:
12.70mm max. Height
14.22mm max. Width of Body
14.22mm max. Length of Body

Coplanarity of ±0.10mm across all Leads

All pins may not be used.

Fig.	Description (applications and notes)	Inductance	Schematic Information						Digi-Key Part No.	Price Each					Newava Part No.
			Primary			Secondary									
			Start	CTap	Finish	Start	CTap	Finish		1	10	50	100	500	
1	Transformer for Maxim 250/251; 5V to 5V @ 50ma	2.5mH	1	—	3	4	—	6	470-1001-ND◆	10.36	7.13	4.15	3.97	3.50	S22601
2	Transformer for Maxim 250/251; For RS232 Isolation	2mH	1	2	3	4	5	6	470-1002-ND◆	9.20	6.33	3.68	3.52	3.11	S22100
	Isolation for Digital Audio; Crystal CS8401/2/11/12	225µH	1	—	2	3	—	4	470-1003-ND	9.20	6.33	3.68	3.52	3.11	S22083
3	Digital Audio, SMD;Transformer	225µH	1	—	4	5	—	8	470-1000-ND◆	8.96	6.16	3.48	3.03	2.69	S37211
4	Isolation for Digital Audio: Crystal CS8401/2/11/12	225µH	1	—	3	4	—	6	470-1004-ND◆	8.36	5.75	3.35	3.20	2.83	S22160
	Transformer for Maxim 250/251; RS232 Isolation	2mH	3	2	1	6	5	4	470-1005-ND◆	8.36	5.75	3.35	3.20	2.83	S22230
	Isolation for Digital Audio, Shielded, Crystal CS8401/2/11/12	225µH	1	—	3	4	—	6	470-1006-ND◆	8.60	5.92	3.44	3.29	2.91	S22133
	Digital Audio, Shielded, 70-110 ohm, Crystal 8401, 8402, 8411 and 8412	225µH	1	—	3	4	—	6	470-1007-ND◆	8.60	5.92	3.44	3.29	2.91	S22523
5	Inductor, 3.6A	33µH	1-5	—	6-10	—	—	—	470-1009-ND◆	9.20	6.33	3.68	3.52	3.11	S34568
6	Inductor DCR 0.15 ohms, 0.63A	150µH	1-4	—	5-8	—	—	—	470-1010-ND◆	8.96	6.16	3.59	3.43	3.03	S34547
	Inductor DCR 0.04 ohms, 3.7A	47µH	1-4	—	5-8	—	—	—	470-1011-ND	9.44	6.49	3.78	3.62	3.19	S34567
7	Inductor DCR 0.300 ohms SMD, 0.45A	150µH	1	—	6	—	—	—	470-1012-ND	9.20	6.33	3.68	3.52	3.11	S34582
	Inductor DCR 0.150 ohms SMD, 0.63A	150µH	1-4	—	5-8	—	—	—	470-1013-ND	8.96	6.16	3.59	3.43	3.03	S34591
8	1A Inductor, Buck for LM257x	330µH	1	—	3	4	—	6	470-1018-ND	11.88	8.17	4.76	4.55	4.01	S34042
9	3A Inductor, Buck for LM257x	150µH	1	—	3	4	—	6	470-1008-ND◆	12.12	8.34	4.85	4.64	4.10	S34045
	0.9A Inductor, Buck for LM257x	1000µH	1	—	3	4	—	6	470-1014-ND	13.00	8.94	5.20	4.98	4.39	S34050
10	3.25A Inductor, for LM259x	68µH	1	—	4	5	—	8	470-1017-ND	9.44	6.49	3.78	3.62	3.19	S34566
11	2.25A Inductor, SMD for LM259x	47µH	6	1	2	3	4	5	470-1016-ND	9.20	6.33	3.68	3.52	3.11	S34603
	1.5A Inductor, SMD for LM259x	100µH	1-5	—	6-10	—	—	—	470-1019-ND◆	9.20	6.33	3.68	3.52	3.11	S34601

◆ ***RoHS Compliant***

Helically Wound Power Inductors

Features: • Very high rated current • Extremely low DC resistance • Very low profile and smallest possible footprint • Suitable for pick-and-place processes **Construction:** • Ferrite core • Magnetically shielded • Winding: Enamel copper flat wire • Self-leaded construction under body termination **General Technical Data:** • Operating Temperature: -40°C ~ 130°C

Fig. 1

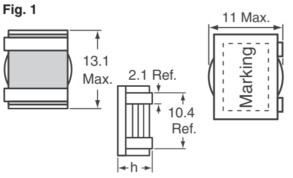

Fig. 2

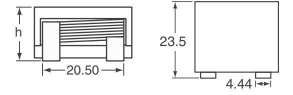

Fig.	Induc-tance (µH)	Toler-ance	I_{sat} (A)	R_{max} (mΩ)	Dim. h (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Epcos Part No.
1	0.50	±10%	30	1.1	4.95	495-1866-1-ND‡	3.38	3.07	2.77	495-1866-2-ND	750	1249.50	B82559A0501A013
	0.95		25	1.4	5.95	495-1867-1-ND‡	3.38	3.07	2.77	495-1867-2-ND	550	916.30	B82559A0951A013
	1.1		20	2.2	4.95	495-1860-1-ND‡	3.38	3.07	2.77	495-1860-2-ND	750	1249.50	B82559A0112A013
	1.4		22	1.8	5.95	495-1861-1-ND‡	3.38	3.07	2.77	495-1861-2-ND	550	916.30	B82559A0142A013
	2.2		15	4.2	4.95	495-1862-1-ND‡	3.38	3.07	2.77	495-1862-2-ND	750	1249.50	B82559A0222A013
	2.4	±10%	16.5	3.2	5.95	495-1863-1-ND‡	3.38	3.07	2.77	495-1863-2-ND	550	916.30	B82559A0242A013
	3.0		13	5.1	4.95	495-1864-1-ND‡	3.38	3.07	2.77	495-1864-2-ND	750	1249.50	B82559A0302A013
	3.9		12	6.0	5.95	495-1865-1-ND‡	3.38	3.07	2.77	495-1865-2-ND	500	833.00	B82559A0392A013
2	0.44	±7%	71	0.23	8.95	495-3452-ND†	5.24	3.74	3.37	—	—	—	B82559A1042A25
	1.25		50	0.46	10.75	495-3453-ND†	5.85	4.18	3.77	—	—	—	B82559A2122A25
	2.3		41	0.7	11.95	495-3454-ND†	6.62	4.73	4.26	—	—	—	B82559A3232A25
	2.9		33	1.15	10.75	495-3455-ND†	6.16	4.40	3.96	—	—	—	B82559A3292A25
	4.35		30	1.5	10.75	495-3456-ND†	7.08	5.06	4.56	—	—	—	B82559A4432A25
	6.1	±7%	28	1.75	11.95	495-3457-ND†	8.62	6.16	5.55	—	—	—	B82559A5612A25
	7.9		26	2.15	12.85	495-3458-ND†	9.55	6.82	6.14	—	—	—	B82559A6792A25
	10		24	2.5	12.85	495-3459-ND†	9.55	6.82	6.14	—	—	—	B82559A7103A25

† Bulk

‡ **495-1686-ND Power Inductor Kit** (2 each of part numbers denoted, 16 total pieces) **61.50**

EPCOS

Surface Mount Inductors

Features: B82496C Series: • High resonance frequency • Free of polarization effect • Close inductance tolerance • High mechanical stability **B82498F Series:** • High resonance frequency • Suitable for reflow (IR and vapor phase) and wave soldering **B82422A Series:** • Very wide temperature range (up to 145°C) • High Q factor • High resonance frequency **B82422H Series:** • Very high current handling capability • Suitable for reflow soldering • Qualified to AEC-Q200 **B82422T Series:** • High Q factor • High resonance frequency • High inductance value **B82432T Series:** • High current handling capability • Suitable for reflow (IR and vapor phase) and wave soldering **B82442A Series:** • High current handling capability • High inductance rating • Suitable for reflow (IR and vapor phase) and wave soldering **B82442H Series:** • Very high current handling capability • High inductance value • Suitable for reflow (IR and vapor phase) and wave soldering **B82467, B82468, B82469, B82470 Series:** • Low profile • High rated current • Low DC resistance **B82462 Series:** • Wide temperature range • High rated current • Low DC resistance **B82476 Series:** • Very high rated current • Low DC resistance • Suitable for reflow soldering **B82464G/A/Z Series:** • Wide temperature range • Very high rated current • Low DC resistance • Suitable for reflow soldering **B82477 Series:** • Wide temperature range • Very high rated current • Low DC resistance **B82479 Series:** • Very high rated current • Low DC resistance • Suitable for reflow soldering

Inductance (µH)	Inductance Tolerance	$Q_{min.}$	DC Res. Max. (Ω)	Current Rating (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Epcos Part No.
						1	10	50		Qty.	Pricing	
Fig. 1 — B82496C Series — 0603												
0.001	±0.3nH	7	0.02	1.8	495-1826-1-ND	.30	2.70	12.02	495-1826-2-ND	4,000	105.00/M	B82496C3109A
0.0015	±0.3nH	8	0.03	1.5	495-1832-1-ND†	.30	2.70	12.02	495-1832-2-ND	4,000	105.00/M	B82496C3159A
0.0018	±0.3nH	12	0.033	1.5	495-2028-1-ND†	.30	2.70	12.02	495-2028-2-ND	4,000	105.00/M	B82496C3189A
0.0022	±0.3nH	14	0.035	1.5	495-1835-1-ND†	.30	2.70	12.02	495-1835-2-ND	4,000	105.00/M	B82496C3229A
0.0027	±0.3nH	14	0.04	1.4	495-2030-1-ND†	.30	2.70	12.02	495-2030-2-ND	4,000	105.00/M	B82496C3279A
0.0033	±0.3nH	14	0.06	1.2	495-1837-1-ND†	.30	2.70	12.02	495-1837-2-ND	4,000	105.00/M	B82496C3339A
0.0039	±5%	14	0.065	1.1	495-2032-1-ND†	.32	2.86	12.70	495-2032-2-ND	4,000	111.00/M	B82496C3399J
0.0047	±5%	14	0.10	0.8	495-1839-1-ND†	.32	2.86	12.70	495-1839-2-ND	4,000	111.00/M	B82496C3479J
0.0056	±5%	14	0.15	0.7	495-2034-1-ND†	.32	2.86	12.70	495-2034-2-ND	4,000	111.00/M	B82496C3569J
0.0068	±5%	14	0.15	0.7	495-1841-1-ND†	.32	2.86	12.70	495-1841-2-ND	4,000	111.00/M	B82496C3689J
0.0082	±5%	14	0.18	0.65	495-1843-1-ND†	.32	2.86	12.70	495-1843-2-ND	4,000	111.00/M	B82496C3829J
0.01	±5%	14	0.20	0.60	495-1824-1-ND†	.32	2.86	12.70	495-1824-2-ND	4,000	111.00/M	B82496C3100J
0.012	±5%	14	0.35	0.45	495-1827-1-ND†	.32	2.86	12.70	495-1827-2-ND	4,000	111.00/M	B82496C3120J
0.015	±5%	14	0.40	0.42	495-1830-1-ND†	.32	2.86	12.70	495-1830-2-ND	4,000	111.00/M	B82496C3150J
0.018	±5%	14	0.45	0.40	495-2026-1-ND†	.32	2.86	12.70	495-2026-2-ND	4,000	111.00/M	B82496C3180J
0.022	±5%	14	0.50	0.38	495-1833-1-ND†	.32	2.86	12.70	495-1833-2-ND	4,000	111.00/M	B82496C3220J
0.027	±5%	14	0.55	0.36	495-2029-1-ND†	.32	2.86	12.70	495-2029-2-ND	4,000	111.00/M	B82496C3270J
0.033	±5%	14	0.60	0.35	495-1836-1-ND†	.32	2.86	12.70	495-1836-2-ND	4,000	111.00/M	B82496C3330J
0.039	±5%	14	0.80	0.30	495-2031-1-ND†	.32	2.86	12.70	495-2031-2-ND	4,000	111.00/M	B82496C3390J
0.047	±5%	14	0.95	0.27	495-1838-1-ND†	.32	2.86	12.70	495-1838-2-ND	4,000	111.00/M	B82496C3470J
0.056	±5%	14	1.2	0.25	495-2033-1-ND†	.32	2.86	12.70	495-2033-2-ND	4,000	111.00/M	B82496C3560J
0.068	±5%	14	1.3	0.23	495-1840-1-ND†	.32	2.86	12.70	495-1840-2-ND	4,000	111.00/M	B82496C3680J
0.082	±5%	14	1.5	0.22	495-1842-1-ND†	.32	2.86	12.70	495-1842-2-ND	4,000	111.00/M	B82496C3820J
0.1	±5%	14	1.8	0.20	495-1825-1-ND†	.32	2.86	12.70	495-1825-2-ND	4,000	111.00/M	B82496C3101J
0.12	±5%	5	3.0	0.16	495-1828-1-ND	.32	2.86	12.70	495-1828-2-ND	4,000	111.00/M	B82496C3121J
0.15	±5%	5	5.0	0.13	495-1831-1-ND	.32	2.86	12.70	495-1831-2-ND	4,000	111.00/M	B82496C3151J
0.18	±5%	4	6.0	0.12	495-2027-1-ND	.32	2.86	12.70	495-2027-2-ND	4,000	111.00/M	B82496C3181J
0.22	±5%	4	7.0	0.11	495-1834-1-ND†	.32	2.86	12.70	495-1834-2-ND	4,000	111.00/M	B82496C3221J
† **495-1684-ND B82496C Series Inductor Kit** 15 Each of Values Denoted..........$87.75												
Fig. 2 — B82498F Series — 0805												
0.0027	±10%	50	0.03	1.0	495-2058-1-ND†	.58	5.25	23.32	495-2058-2-ND	3,000	204.00/M	B82498F3279K
0.0056	±10%	50	0.04	0.9	495-2113-1-ND†	.58	5.25	23.32	495-2113-2-ND	3,000	204.00/M	B82498F3569K
0.0068	±10%	50	0.05	0.8	495-1857-1-ND†	.58	5.25	23.32	495-1857-2-ND	3,000	204.00/M	B82498F3689K
0.0082	±10%	50	0.09	0.7	495-1859-1-ND†	.58	5.25	23.32	495-1859-2-ND	3,000	204.00/M	B82498F3829K
0.01	±5%	50	0.09	0.7	495-1848-1-ND†	.58	5.25	23.32	495-1848-2-ND	3,000	204.00/M	B82498F3100J
0.012	±5%	50	0.09	0.7	495-2035-1-ND†	.58	5.25	23.32	495-2035-2-ND	3,000	204.00/M	B82498F3120J
0.015	±5%	50	1.13	0.65	495-2036-1-ND†	.58	5.25	23.32	495-2036-2-ND	3,000	204.00/M	B82498F3150J
0.018	±5%	60	0.08	0.7	495-2037-1-ND†	.58	5.25	23.32	495-2037-2-ND	3,000	204.00/M	B82498F3180J
0.022	±5%	60	0.08	0.7	495-1850-1-ND†	.58	5.25	23.32	495-1850-2-ND	3,000	204.00/M	B82498F3220J
0.027	±5%	60	0.09	0.7	495-2038-1-ND†	.58	5.25	23.32	495-2038-2-ND	3,000	204.00/M	B82498F3270J
0.033	±5%	65	0.11	0.6	495-1852-1-ND†	.58	5.25	23.32	495-1852-2-ND	3,000	204.00/M	B82498F3330J
0.039	±5%	65	0.12	0.6	495-2040-1-ND†	.58	5.25	23.32	495-2040-2-ND	3,000	204.00/M	B82498F3390J
0.047	±5%	65	0.13	0.6	495-1854-1-ND†	.58	5.25	23.32	495-1854-2-ND	3,000	204.00/M	B82498F3470J
0.056	±5%	60	0.14	0.6	495-2041-1-ND†	.58	5.25	23.32	495-2041-2-ND	3,000	204.00/M	B82498F3560J
0.068	±5%	60	0.18	0.5	495-1856-1-ND†	.58	5.25	23.32	495-1856-2-ND	3,000	204.00/M	B82498F3680J
0.082	±5%	60	0.19	0.5	495-1858-1-ND†	.58	5.25	23.32	495-1858-2-ND	3,000	204.00/M	B82498F3820J
0.1	±5%	55	0.28	0.45	495-1849-1-ND†	.58	5.25	23.32	495-1849-2-ND	3,000	204.00/M	B82498F3101J
0.12	±5%	50	0.31	0.44	495-3433-1-ND†	.58	5.25	23.32	495-3433-2-ND	3,000	204.00/M	B82498F3121J
0.15	±5%	45	0.42	0.40	495-3434-1-ND†	.58	5.25	23.32	495-3434-2-ND	3,000	204.00/M	B82498F3151J
0.22	±5%	45	0.70	0.32	495-1851-1-ND†	.58	5.25	23.32	495-1851-2-ND	3,000	204.00/M	B82498F3221J
0.33	±5%	45	1.5	0.22	495-1853-1-ND†	.58	5.25	23.32	495-1853-2-ND	3,000	204.00/M	B82498F3331J
0.47	±5%	30	1.9	0.19	495-1855-1-ND†	.58	5.25	23.32	495-1855-2-ND	3,000	204.00/M	B82498F3471J
0.68	±5%	23	1.7	0.19	495-3436-1-ND†	.58	5.25	23.32	495-3436-2-ND	3,000	204.00/M	B82498F3681J
0.82	±5%	23	1.9	0.18	495-3435-1-ND†	.58	5.25	23.32	495-3435-2-ND	3,000	204.00/M	B82498F3821J
1.0	±5%	20	0.55	0.24	495-1844-1-ND	.76	6.88	30.56	495-1844-2-ND	3,000	267.00/M	B82498F1102J
2.2	±5%	20	1.6	0.13	495-1845-1-ND	.76	6.88	30.56	495-1845-2-ND	3,000	267.00/M	B82498F1222J
4.7	±5%	20	3.8	0.09	495-1846-1-ND	.76	6.88	30.56	495-1846-2-ND	3,000	267.00/M	B82498F1472J
6.8	±5%	20	4.7	0.08	495-1847-1-ND	.76	6.88	30.56	495-1847-2-ND	3,000	267.00/M	B82498F1682J
† **495-1685-ND B82498F Series Inductor Kit** 15 Each of Values Denoted..........$87.75												
Fig. 3 — B82422A Series — 1210												
0.0082	±10%	20	0.08	0.8	495-1721-1-ND	.34	3.09	13.72	495-1721-2-ND	2,000	120.00/M	B82422A3829K100
0.01	±10%	20	0.09	0.75	495-1707-1-ND	.34	3.09	13.72	—	—	—	B82422A3100K100
0.012	±10%	25	0.10	0.7	495-1966-1-ND	.34	3.09	13.72	495-1966-2-ND	2,000	120.00/M	B82422A3120K100
0.015	±10%	27	0.12	0.64	495-1709-1-ND†	.34	3.09	13.72	495-1709-2-ND	2,000	120.00/M	B82422A3150K100
0.022	±10%	30	0.14	0.6	495-1713-1-ND†	.34	3.09	13.72	495-1713-2-ND	2,000	120.00/M	B82422A3220K100
0.033	±10%	20	0.17	0.54	495-1715-1-ND†	.34	3.09	13.72	495-1715-2-ND	2,000	120.00/M	B82422A3330K100
0.047	±10%	26	0.19	0.51	495-1717-1-ND†	.34	3.09	13.72	495-1717-2-ND	2,000	120.00/M	B82422A3470K100
0.068	±10%	27	0.21	0.48	495-1971-1-ND†	.34	3.09	13.72	495-1971-2-ND	2,000	120.00/M	B82422A3680K100
0.1	±10%	25	0.26	0.44	495-1708-1-ND†	.34	3.09	13.72	495-1708-2-ND	2,000	120.00/M	B82422A3101K100
0.12	±10%	22	0.32	0.4	495-1967-1-ND	.34	3.09	13.72	495-1967-2-ND	2,000	120.00/M	B82422A3121K100
0.15	±10%	25	0.33	0.39	495-1710-1-ND†	.34	3.09	13.72	495-1710-2-ND	2,000	120.00/M	B82422A3151K100
0.22	±10%	25	0.64	0.28	495-1714-1-ND†	.34	3.09	13.72	495-1714-2-ND	2,000	120.00/M	B82422A3221K100
0.27	±10%	20	0.90	0.235	495-1968-1-ND	.34	3.09	13.72	495-1968-2-ND	2,000	120.00/M	B82422A3271K100
0.33	±10%	22	1.3	0.2	495-1716-1-ND†	.34	3.09	13.72	495-1716-2-ND	2,000	120.00/M	B82422A3331K100
0.39	±10%	22	1.4	0.19	495-1970-1-ND	.34	3.09	13.72	495-1970-2-ND	2,000	120.00/M	B82422A3391K100
0.47	±10%	22	2.2	0.15	495-1718-1-ND†	.34	3.09	13.72	495-1718-2-ND	2,000	120.00/M	B82422A3471K100
0.68	±10%	22	2.4	0.145	495-1972-1-ND†	.34	3.09	13.72	495-1972-2-ND	2,000	120.00/M	B82422A3681K100
0.82	±10%	22	2.5	0.14	495-1720-1-ND	.34	3.09	13.72	495-1720-2-ND	2,000	120.00/M	B82422A3821K100
1.0	±10%	20	0.34	0.38	495-1694-1-ND†	.34	3.09	13.72	495-1694-2-ND	2,000	120.00/M	B82422A1102K100
1.5	±10%	20	0.50	0.34	495-1697-1-ND†	.34	3.09	13.72	495-1697-2-ND	2,000	120.00/M	B82422A1152K100
1.8	±10%	25	0.60	0.29	495-1963-1-ND	.34	3.09	13.72	495-1963-2-ND	2,000	120.00/M	B82422A1182K100
2.2	±10%	25	0.75	0.27	495-1699-1-ND†	.34	3.09	13.72	495-1699-2-ND	2,000	120.00/M	B82422A1222K100
3.3	±10%	27	1.2	0.2	495-1701-1-ND†	.34	3.09	13.72	495-1701-2-ND	2,000	120.00/M	B82422A1332K100
4.7	±10%	27	2.2	0.15	495-1703-1-ND†	.34	3.09	13.72	495-1703-2-ND	2,000	120.00/M	B82422A1472K100
5.6	±10%	27	2.6	0.14	495-1964-1-ND	.34	3.09	13.72	495-1964-2-ND	2,000	120.00/M	B82422A1562K100
6.8	±10%	27	2.8	0.135	495-1705-1-ND†	.34	3.09	13.72	495-1705-2-ND	2,000	120.00/M	B82422A1682K100
8.2	±10%	27	3.0	0.13	495-1965-1-ND	.34	3.09	13.72	495-1965-2-ND	2,000	120.00/M	B82422A1822K100
10	±10%	27	1.6	0.18	495-1695-1-ND†	.29	2.57	11.44	495-1695-2-ND	2,000	120.00/M	B82422A1103K100
12	±10%	27	1.65	0.175	495-1962-1-ND	.34	3.09	13.72	495-1962-2-ND	2,000	120.00/M	B82422A1123K100
15	±10%	27	1.85	0.165	495-1698-1-ND†	.34	3.09	13.72	495-1698-2-ND	2,000	120.00/M	B82422A1153K100
22	±10%	27	2.65	0.14	495-1700-1-ND†	.34	3.09	13.72	495-1700-2-ND	2,000	120.00/M	B82422A1223K100
33	±10%	27	4.5	0.105	495-1702-1-ND†	.34	3.09	13.72	495-1702-2-ND	2,000	120.00/M	B82422A1333K100

Fig. 1

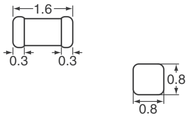

Fig. 2

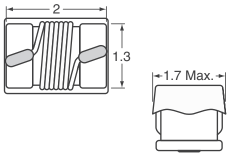

Fig. 3

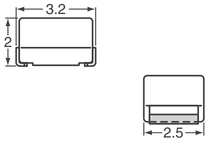

Fig. 4

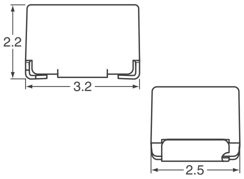

Fig. 5

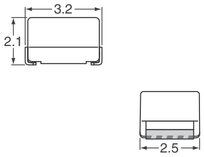

Fig. 6

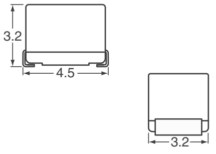

Fig. 7

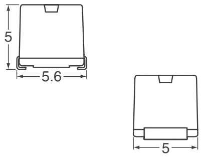

‡ Typical

(Continued)

Surface Mount Inductors *(Cont.)*

Inductance (µH)	Inductance Tolerance	$Q_{\text{min.}}$	DC Res. Max. (Ω)	Current Rating (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Epcos Part No.
						1	10	50		Qty.	Pricing	
47	±10%	27	7.0	0.085	495-1704-1-ND†	.34	3.09	13.72	495-1704-2-ND	2,000	120.00/M	B82422A1473K100
68	±10%	27	7.7	0.08	495-1706-1-ND†	.34	3.09	13.72	—	—	—	B82422A1683K100
100	±10%	27	11.5	0.065	495-1696-1-ND†	.34	3.09	13.72	495-1696-2-ND	2,000	120.00/M	B82422A1104K100
† **495-1679-ND B82422A Series Inductor Kit** 15 Each of Values Denoted........$87.75												
Fig. 4 — B82422H Series — 1210												
1.0	±10%	8	0.10	1.15	495-2637-1-ND	.56	5.02	22.32	495-2637-2-ND	2,000	195.00/M	B82422H1102K
1.5	±10%	8	0.14	0.9	495-2640-1-ND	.56	5.02	22.32	495-2640-2-ND	2,000	195.00/M	B82422H1152K
2.2	±10%	8	0.16	0.8	495-2643-1-ND	.56	5.02	22.32	495-2643-2-ND	2,000	195.00/M	B82422H1222K
3.3	±10%	8	0.18	0.77	495-2646-1-ND	.56	5.02	22.32	495-2646-2-ND	2,000	195.00/M	B82422H1332K
4.7	±10%	8	0.25	0.7	495-2649-1-ND	.56	5.02	22.32	495-2649-2-ND	2,000	195.00/M	B82422H1472K
6.8	±10%	8	0.35	0.57	495-2652-1-ND	.56	5.02	22.32	495-2652-2-ND	2,000	195.00/M	B82422H1682K
10	±10%	12	0.46	0.5	495-2638-1-ND	.56	5.02	22.32	495-2638-2-ND	2,000	195.00/M	B82422H1103K
15	±10%	12	0.72	0.39	495-2641-1-ND	.56	5.02	22.32	495-2641-2-ND	2,000	195.00/M	B82422H1153K
22	±10%	12	1.0	0.33	495-2644-1-ND	.56	5.02	22.32	495-2644-2-ND	2,000	195.00/M	B82422H1223K
33	±10%	15	1.4	0.28	495-2647-1-ND	.56	5.02	22.32	495-2647-2-ND	2,000	195.00/M	B82422H1333K
47	±10%	15	2.1	0.23	495-2650-1-ND	.56	5.02	22.32	495-2650-2-ND	2,000	195.00/M	B82422H1473K
68	±10%	15	3.4	0.18	495-2653-1-ND	.56	5.02	22.32	495-2653-2-ND	2,000	195.00/M	B82422H1683K
100	±10%	20	4.8	0.15	495-2639-1-ND	.56	5.02	22.32	495-2639-2-ND	2,000	195.00/M	B82422H1104K
150	±10%	20	7.5	0.12	495-2642-1-ND	.56	5.02	22.32	495-2642-2-ND	2,000	195.00/M	B82422H1154K
220	±10%	20	10.9	0.1	495-2645-1-ND	.56	5.02	22.32	495-2645-2-ND	2,000	195.00/M	B82422H1224K
330	±10%	20	13	0.09	495-2648-1-ND	.56	5.02	22.32	495-2648-2-ND	2,000	195.00/M	B82422H1334K
470	±10%	20	20	0.076	495-2651-1-ND	.56	5.02	22.32	495-2651-2-ND	2,000	195.00/M	B82422H1474K
680	±10%	20	31	0.061	495-2654-1-ND	.56	5.02	22.32	495-2654-2-ND	2,000	195.00/M	B82422H1684K
Fig. 5 — B82422T Series — 1210												
3.3	±10%	30	1.2	0.26	495-2656-1-ND	.29	2.64	11.74	495-2656-2-ND	2,000	103.00/M	B82422T1332K
6.8	±10%	27	1.8	0.18	495-2657-1-ND	.29	2.61	11.74	495-2657-2-ND	2,000	103.00/M	B82422T1682K
15	±10%	27	2.8	0.13	495-2655-1-ND	.29	2.64	11.74	495-2655-2-ND	2,000	103.00/M	B82422T1153K
68	±10%	27	9.0	0.06	495-2658-1-ND	.29	2.64	11.74	495-2658-2-ND	2,000	103.00/M	B82422T1683K
Fig. 6 — B82432T Series — 1812												
1.0	±10%	10	0.08	1.3	495-1753-1-ND†	.64	5.80	25.76	495-1753-2-ND	2,500	225.00/M	B82432T1102K
1.5	±10%	10	0.11	1.15	495-1975-1-ND†	.64	5.80	25.76	495-1975-2-ND	2,500	225.00/M	B82432T1152K
1.8	±10%	10	0.13	1.05	495-1978-1-ND†	.64	5.80	25.76	495-1978-2-ND	2,500	225.00/M	B82432T1182K
2.2	±10%	10	0.15	1.0	495-1757-1-ND†	.59	5.29	23.52	495-1757-2-ND	2,500	206.00/M	B82432T1222K
3.3	±10%	10	0.19	0.9	495-1760-1-ND†	.64	5.80	25.76	495-1760-2-ND	2,500	225.00/M	B82432T1332K
3.9	±10%	10	0.20	0.85	495-1980-1-ND†	.64	5.80	25.76	495-1980-2-ND	2,500	225.00/M	B82432T1392K
4.7	±10%	10	0.22	0.8	495-1763-1-ND†	.64	5.80	25.76	495-1763-2-ND	2,500	225.00/M	B82432T1472K
6.8	±10%	10	0.30	0.7	495-1766-1-ND†	.64	5.80	25.76	495-1766-2-ND	2,500	225.00/M	B82432T1682K
8.2	±10%	10	0.33	0.67	495-1983-1-ND†	.64	5.80	25.76	495-1983-2-ND	2,500	225.00/M	B82432T1822K
10	±10%	10	0.35	0.65	495-1754-1-ND†	.64	5.80	25.76	495-1754-2-ND	2,500	225.00/M	B82432T1103K
15	±10%	10	0.50	0.6	495-1976-1-ND†	.64	5.80	25.76	495-1976-2-ND	2,500	225.00/M	B82432T1153K
18	±10%	10	0.60	0.55	495-3437-1-ND†	.68	6.10	27.12	495-3437-2-ND	2,500	237.00/M	B82432T1183K
22	±10%	10	0.70	0.45	495-1758-1-ND†	.64	5.80	25.76	495-1758-2-ND	2,500	225.00/M	B82432T1223K
33	±10%	10	1.2	0.4	495-1761-1-ND†	.64	5.80	25.76	495-1761-2-ND	2,500	225.00/M	B82432T1333K
39	±10%	10	1.3	0.38	495-1981-1-ND†	.64	5.80	25.76	495-1981-2-ND	2,500	225.00/M	B82432T1393K
47	±10%	10	1.35	0.35	495-1764-1-ND†	.64	5.80	25.76	495-1764-2-ND	2,500	225.00/M	B82432T1473K
56	±10%	10	2.0	0.3	495-1982-1-ND	.64	5.80	25.76	495-1982-2-ND	2,500	225.00/M	B82432T1563K
68	±10%	10	2.5	0.25	495-1767-1-ND†	.64	5.80	25.76	495-1767-2-ND	2,500	225.00/M	B82432T1683K
100	±10%	20	3.5	0.2	495-1755-1-ND†	.64	5.80	25.76	495-1755-2-ND	2,500	225.00/M	B82432T1104K
150	±10%	20	6.0	0.16	495-1977-1-ND†	.64	5.80	25.76	495-1977-2-ND	2,500	225.00/M	B82432T1154K
220	±10%	20	7.5	0.13	495-1759-1-ND†	.64	5.80	25.76	495-1759-2-ND	2,500	225.00/M	B82432T1224K
270	±10%	20	10.5	0.12	495-1979-1-ND	.64	5.80	25.76	495-1979-2-ND	2,500	225.00/M	B82432T1274K
330	±10%	20	11.0	0.12	495-1762-1-ND†	.64	5.80	25.76	495-1762-2-ND	2,500	225.00/M	B82432T1334K
470	±10%	20	15	0.1	495-1765-1-ND†	.64	5.80	25.76	495-1765-2-ND	2,500	225.00/M	B82432T1474K
680	±10%	20	23	0.08	495-1768-1-ND†	.64	5.80	25.76	495-1768-2-ND	2,500	225.00/M	B82432T1684K
820	±10%	20	27	0.08	495-1984-1-ND	.64	5.80	25.76	495-1984-2-ND	2,500	225.00/M	B82432T1824K
1000	±10%	20	30	0.07	495-1756-1-ND†	.64	5.80	25.76	495-1756-2-ND	2,500	225.00/M	B82432T1105K
† **495-1680-ND B82432T Series Inductor Kit** 15 Each of Values Denoted........$87.75												
Fig. 7 — B82442A Series — 2220												
1.0	±10%	10	0.024	1.8	495-1769-1-ND†	.94	8.50	37.76	495-1769-2-ND	1,500	330.00/M	B82442A1102K
2.2	±10%	10	0.048	1.3	495-1774-1-ND	.99	8.88	39.48	495-1774-2-ND	1,500	345.00/M	B82442A1222K
4.7	±10%	10	0.088	0.95	495-1778-1-ND†	.99	8.88	39.48	495-1778-2-ND	1,500	345.00/M	B82442A1472K
10	±10%	10	0.168	0.69	495-1770-1-ND†	.94	8.50	37.76	495-1770-2-ND	1,500	330.00/M	B82442A1103K
22	±10%	10	0.35	0.48	495-1775-1-ND	.99	8.88	39.48	495-1775-2-ND	1,500	345.00/M	B82442A1223K
47	±10%	10	0.68	0.34	495-1779-1-ND†	.99	8.88	39.48	495-1779-2-ND	1,500	345.00/M	B82442A1473K
100	±10%	20	1.28	0.25	495-1771-1-ND†	.94	8.50	37.76	495-1771-2-ND	1,500	330.00/M	B82442A1104K
220	±10%	20	2.72	0.17	495-1776-1-ND	.99	8.88	39.48	495-1776-2-ND	1,500	345.00/M	B82442A1224K
470	±10%	20	5.6	0.12	495-1780-1-ND†	.99	8.88	39.48	495-1780-2-ND	1,500	345.00/M	B82442A1474K
1000	±10%	30	12	0.085	495-1772-1-ND†	.94	8.50	37.76	495-1772-2-ND	1,500	330.00/M	B82442A1105K
4700	±10%	30	62.4	0.036	495-1781-1-ND†	.99	8.88	39.48	495-1781-2-ND	1,500	345.00/M	B82442A1475K
10000	±10%	30	120	0.025	495-1773-1-ND†	.94	8.50	37.76	495-1773-2-ND	1,500	330.00/M	B82442A1106K
Fig. 7 — B82442H Series — 2220												
1.0	±10%	10	0.024	2.5	495-1782-1-ND	1.26	11.35	50.44	495-1782-2-ND	1,500	441.00/M	B82442H1102K
2.2	±10%	10	0.048	1.8	495-1787-1-ND	1.26	11.35	50.44	495-1787-2-ND	1,500	441.00/M	B82442H1222K
4.7	±10%	10	0.088	1.35	495-1791-1-ND	1.26	11.35	50.44	495-1791-2-ND	1,500	441.00/M	B82442H1472K
10	±10%	10	0.168	1.0	495-1783-1-ND	1.26	11.35	50.44	495-1783-2-ND	1,500	441.00/M	B82442H1103K
22	±10%	10	0.35	0.67	495-1788-1-ND	1.26	11.35	50.44	495-1788-2-ND	1,500	441.00/M	B82442H1223K
47	±10%	10	0.68	0.48	495-1792-1-ND	1.26	11.35	50.44	495-1792-2-ND	1,500	441.00/M	B82442H1473K
100	±10%	20	1.28	0.35	495-1784-1-ND	1.26	11.35	50.44	495-1784-2-ND	1,500	441.00/M	B82442H1104K
220	±10%	20	2.72	0.24	495-1789-1-ND	1.26	11.35	50.44	495-1789-2-ND	1,500	441.00/M	B82442H1224K
330	±10%	20	3.92	0.2	495-3438-1-ND†	1.26	11.35	50.44	495-3438-2-ND	1,500	441.00/M	B82442H1334K
470	±10%	20	5.6	0.17	495-1793-1-ND	1.26	11.35	50.44	495-1793-2-ND	1,500	441.00/M	B82442H1474K
1000	±10%	30	12	0.12	495-1785-1-ND†	1.26	11.35	50.44	495-1785-2-ND	1,500	441.00/M	B82442H1105K
2200	±10%	30	28	0.075	495-1790-1-ND	1.26	11.35	50.44	495-1790-2-ND	1,500	441.00/M	B82442H1225K
4700	±10%	30	62.4	0.05	495-1794-1-ND	1.26	11.35	50.44	495-1794-2-ND	1,500	441.00/M	B82442H1475K
10000	±10%	30	120	0.035	495-1786-1-ND	1.26	11.35	50.44	495-1786-2-ND	1,500	441.00/M	B82442H1106K
† **495-1682-ND B82442A/B82442H Series Inductor Kit** 15 Each of Values Denoted........$87.75												

Inductance (µH)	Inductance Tolerance	DC Res. Max. (Ω)	Current Rating (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Epcos Part No.
					1	10	50		Qty.	Pricing	
Fig. 8 — B82468 Series											
1.0	±20%	0.051‡	1.95	495-2709-1-ND	.77	7.01	31.54	495-2709-2-ND	1,000	381.00	B82468A4102M
2.2	±20%	0.087‡	1.48	495-2711-1-ND	.77	7.01	31.54	495-2711-2-ND	1,000	381.00	B82468A4222M
4.7	±20%	0.185‡	1.03	495-2713-1-ND	.77	7.01	31.54	495-2713-2-ND	1,000	381.00	B82468A4472M
10	±20%	0.33‡	0.75	495-2710-1-ND	.77	7.01	31.54	495-2710-2-ND	1,000	381.00	B82468A4103M
22	±20%	0.81‡	0.48	495-2712-1-ND	.77	7.01	31.54	495-2712-2-ND	1,000	381.00	B82468A4223M
Fig. 9 — B82470 Series											
1.0	±20%	0.045	1.8	495-2678-1-ND	.85	7.75	34.83	495-2678-2-ND	1,000	420.00	B82470A1102M
2.2	±20%	0.09	1.35	495-2680-1-ND	.85	7.75	34.83	495-2680-2-ND	1,000	420.00	B82470A1222M
4.7	±20%	0.19	0.95	495-2682-1-ND	.85	7.75	34.83	495-2682-2-ND	1,000	420.00	B82470A1472M
10	±20%	0.305	0.75	495-2679-1-ND	.85	7.75	34.83	495-2679-2-ND	1,000	420.00	B82470A1103M

‡ Typical

Fig. 8

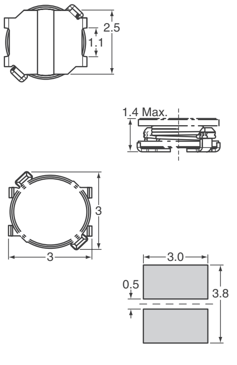

Fig. 9

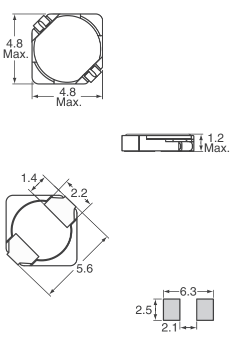

Fig. 10

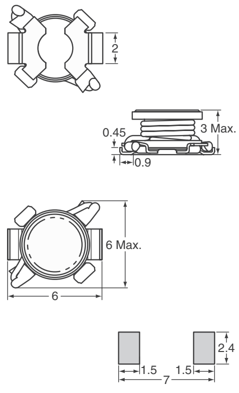

Fig. 11

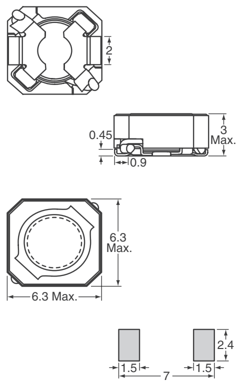

(Continued)

EPCOS

Surface Mount Inductors *(Cont.)*

Digi-Reel® RoHS

Inductance (µH)	Inductance Tolerance	DC Res. Max. (Ω)	Current Rating (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epcos Part No.
22	±20%	0.69	0.48	495-2681-1-ND	.85	7.75	34.83	495-2681-2-ND	1,000	420.00	B82470A1223M
47	±20%	1.5	0.32	495-2683-1-ND	.85	7.75	34.83	495-2683-2-ND	1,000	420.00	B82470A1473M
Fig. 10 — B82462A4 Series											
1.0	±20%	0.024	3.0	495-2659-1-ND	.79	7.19	32.35	495-2659-2-ND	2,500	390.00/M	B82462A4102M
3.3	±20%	0.06	2.0	495-2663-1-ND	.79	7.19	32.35	495-2663-2-ND	2,500	390.00/M	B82462A4332M
4.7	±20%	0.08	1.65	495-2665-1-ND	.79	7.19	32.35	495-2665-2-ND	2,500	390.00/M	B82462A4472M
6.8	±20%	0.1	1.4	495-2667-1-ND	.79	7.19	32.35	495-2667-2-ND	2,500	390.00/M	B82462A4682M
10	±20%	0.14	1.15	495-2660-1-ND	.79	7.19	32.35	495-2660-2-ND	2,500	390.00/M	B82462A4103M
22	±10%	0.26	0.8	495-2662-1-ND	.79	7.19	32.35	495-2662-2-ND	2,500	390.00/M	B82462A4223K
47	±10%	0.64	0.54	495-2666-1-ND	.79	7.19	32.35	495-2666-2-ND	2,500	390.00/M	B82462A4473K
100	±10%	1.28	0.35	495-2661-1-ND	.79	7.19	32.35	495-2661-2-ND	2,500	390.00/M	B82462A4104K
330	±10%	3.9	0.2	495-2664-1-ND	.79	7.19	32.35	495-2664-2-ND	2,500	390.00/M	B82462A4334K
Fig. 11 — B82462G4 Series											
1.0	±20%	0.016	3.4	495-1985-1-ND	1.46	13.13	58.34	495-1985-2-ND	2,500	510.00/M	B82462G4102M
1.5	±20%	0.020	3.1	495-1988-1-ND	1.46	13.13	58.34	495-1988-2-ND	2,500	510.00/M	B82462G4152M
2.2	±20%	0.025	2.55	495-1991-1-ND	1.46	13.13	58.34	495-1991-2-ND	2,500	510.00/M	B82462G4222M
3.3	±20%	0.031	2.3	495-1994-1-ND	1.46	13.13	58.34	495-1994-2-ND	2,500	510.00/M	B82462G4332M
4.7	±20%	0.040	2.0	495-1997-1-ND	1.46	13.13	58.34	495-1997-2-ND	2,500	510.00/M	B82462G4472M
6.8	±20%	0.050	1.65	495-1999-1-ND	1.46	13.13	58.34	495-1999-2-ND	2,500	510.00/M	B82462G4682M
10	±20%	0.062	1.5	495-1986-1-ND	1.46	13.13	58.34	495-1986-2-ND	2,500	510.00/M	B82462G4103M
15	±20%	0.097	1.25	495-1989-1-ND	1.46	13.13	58.34	495-1989-2-ND	2,500	510.00/M	B82462G4153M
22	±20%	0.15	1.05	495-1992-1-ND	1.46	13.13	58.34	495-1992-2-ND	2,500	510.00/M	B82462G4223M
33	±20%	0.23	0.85	495-1995-1-ND	1.46	13.13	58.34	495-1995-2-ND	2,500	510.00/M	B82462G4333M
47	±20%	0.34	0.75	495-1998-1-ND	1.46	13.13	58.34	495-1998-2-ND	2,500	510.00/M	B82462G4473M
68	±20%	0.42	0.65	495-2000-1-ND	1.46	13.13	58.34	495-2000-2-ND	2,500	510.00/M	B82462G4683M
100	±20%	0.58	0.53	495-1987-1-ND	1.46	13.13	58.34	495-1987-2-ND	2,500	510.00/M	B82462G4104M
150	±20%	0.96	0.38	495-1990-1-ND	1.46	13.13	58.34	495-1990-2-ND	2,500	510.00/M	B82462G4154M
220	±20%	1.35	0.35	495-1993-1-ND	1.46	13.13	58.34	495-1993-2-ND	2,500	510.00/M	B82462G4224M
330	±20%	2.30	0.27	495-1996-1-ND	1.46	13.13	58.34	495-1996-2-ND	2,500	510.00/M	B82462G4334M
Fig. 12 — B82462G2 Series											
0.82	±20%	0.017	3.25	495-2677-1-ND	.86	7.84	35.24	495-2677-2-ND	2,500	425.00/M	B82462G2821M
2.2	±20%	0.032	2.3	495-2670-1-ND	.86	7.84	35.24	495-2670-2-ND	2,500	425.00/M	B82462G2222M
3.3	±20%	0.04	2.0	495-2672-1-ND	1.04	9.41	42.30	495-2672-2-ND	2,500	510.00/M	B82462G2332M
4.7	±20%	0.061	1.6	495-2674-1-ND	1.04	9.41	42.30	495-2674-2-ND	2,500	510.00/M	B82462G2472M
6.8	±20%	0.078	1.45	495-2676-1-ND	1.04	9.41	42.30	495-2676-2-ND	2,500	510.00/M	B82462G2682M
10	±20%	0.106	1.25	495-2668-1-ND	1.04	9.41	42.30	495-2668-2-ND	2,500	510.00/M	B82462G2103M
22	±20%	0.245	0.83	495-2671-1-ND	1.04	9.41	42.30	495-2671-2-ND	2,500	510.00/M	B82462G2223M
47	±20%	0.42	0.62	495-2675-1-ND	1.04	9.41	42.30	495-2675-2-ND	2,500	510.00/M	B82462G2473M
100	±20%	0.95	0.41	495-2669-1-ND	1.04	9.41	42.30	495-2669-2-ND	2,500	510.00/M	B82462G2104M
330	±20%	3.25	0.22	495-2673-1-ND	1.04	9.41	42.30	495-2673-2-ND	2,500	510.00/M	B82462G2334M
Fig. 13 — B82476 Series											
1.0	±20%	0.008	6.8	495-2684-1-ND	.89	8.04	36.16	495-2684-2-ND	750	327.00	B82476A1102M
2.2	±20%	0.0105	6.1	495-2687-1-ND	1.16	10.51	47.27	495-2687-2-ND	750	428.25	B82476A1222M
3.3	±20%	0.0135	5.4	495-2688-1-ND	1.16	10.51	47.27	495-2688-2-ND	750	428.25	B82476A1332M
4.7	±20%	0.0165	4.8	495-2690-1-ND	1.16	10.51	47.27	495-2690-2-ND	750	428.25	B82476A1472M
6.8	±20%	0.021	4.4	495-2693-1-ND	1.16	10.51	47.27	495-2693-2-ND	750	428.25	B82476A1682M
10	±20%	0.027	3.9	495-2685-1-ND	1.16	10.51	47.27	495-2685-2-ND	750	428.25	B82476A1103M
33	±20%	0.088	2.1	495-2689-1-ND	1.16	10.51	47.27	495-2689-2-ND	750	428.25	B82476A1333M
47	±20%	0.12	1.8	495-2691-1-ND	1.16	10.51	47.27	495-2691-2-ND	750	428.25	B82476A1473M
68	±20%	0.16	1.5	495-2694-1-ND	1.16	10.51	47.27	495-2694-2-ND	750	428.25	B82476A1683M
100	±20%	0.23	1.3	495-2686-1-ND	1.16	10.51	47.27	495-2686-2-ND	750	428.25	B82476A1104M
470	±20%	1.1	0.5	495-2692-1-ND	1.16	10.51	47.27	495-2692-2-ND	750	428.25	B82476A1474M
Fig. 14 — B82464Z Series											
1.0	±20%	0.007	7.5	495-3460-1-ND	.86	7.80	35.09	495-3460-2-ND	750	318.00	B82464Z4102M
1.5	±20%	0.009	7.0	495-3464-1-ND	.86	7.80	35.09	495-3464-2-ND	750	324.00	B82464Z4152M
2.2	±20%	0.01	6.5	495-3467-1-ND	.86	7.80	35.09	495-3467-2-ND	750	318.00	B82464Z4222M
3.3	±20%	0.012	5.5	495-3470-1-ND	.86	7.80	35.09	495-3470-2-ND	750	318.00	B82464Z4332M
4.7	±20%	0.015	4.9	495-3473-1-ND	.86	7.80	35.09	495-3473-2-ND	750	318.00	B82464Z4472M
6.8	±20%	0.02	4.3	495-3476-1-ND	.86	7.80	35.09	495-3476-2-ND	750	318.00	B82464Z4682M
10	±20%	0.03	3.4	495-3461-1-ND	.86	7.80	35.09	495-3461-2-ND	750	318.00	B82464Z4103M
15	±20%	0.04	2.75	495-3465-1-ND	.86	7.80	35.09	495-3465-2-ND	750	318.00	B82464Z4153M
22	±20%	0.052	2.25	495-3468-1-ND	.86	7.80	35.09	495-3468-2-ND	750	318.00	B82464Z4223M
33	±20%	0.075	1.85	495-3471-1-ND	.86	7.80	35.09	495-3471-2-ND	750	318.00	B82464Z4333M
47	±20%	0.095	1.55	495-3474-1-ND	.86	7.80	35.09	495-3474-2-ND	750	318.00	B82464Z4473M
68	±20%	0.13	1.3	495-3477-1-ND	.86	7.80	35.09	495-3477-2-ND	750	318.00	B82464Z4683M
100	±20%	0.22	1.05	495-3462-1-ND	.86	7.80	35.09	495-3462-2-ND	750	318.00	B82464Z4104M
150	±20%	0.32	0.85	495-3466-1-ND	.86	7.80	35.09	495-3466-2-ND	750	318.00	B82464Z4154M
220	±20%	0.44	0.7	495-3469-1-ND	.86	7.80	35.09	495-3469-2-ND	750	318.00	B82464Z4224M
330	±20%	0.65	0.59	495-3472-1-ND	.86	7.80	35.09	495-3472-2-ND	750	318.00	B82464Z4334M
470	±20%	0.93	0.5	495-3475-1-ND	.85	6.41	30.25	495-3475-2-ND	750	318.00	B82464Z4474M
680	±20%	1.3	0.42	495-3478-1-ND	.86	7.80	35.09	495-3478-2-ND	750	318.00	B82464Z4684M
1000	±20%	2.2	0.34	495-3463-1-ND	.86	7.80	35.09	495-3463-2-ND	750	318.00	B82464Z4105M
Fig. 14 — B82464G Series											
1.0	±20%	0.007	7.5	495-1795-1-ND†	2.15	19.31	85.80	495-1795-2-ND	750	563.25	B82464G4102M
1.5	±20%	0.009	7	495-2021-1-ND†	1.52	13.84	62.21	495-2021-2-ND	750	563.25	B82464G4152M
2.2	±20%	0.01	6.5	495-1799-1-ND†	1.52	13.84	62.21	495-1799-2-ND	750	563.25	B82464G4222M
4.7	±20%	0.015	4.9	495-1805-1-ND†	2.15	19.31	85.80	495-1805-2-ND	750	563.25	B82464G4472M
6.8	±20%	0.02	4.3	495-1808-1-ND†	2.15	19.31	85.80	495-1808-2-ND	750	563.25	B82464G4682M
10	±20%	0.03	3.4	495-1796-1-ND†	2.15	19.31	85.80	495-1796-2-ND	750	563.25	B82464G4103M
15	±20%	0.04	2.75	495-2023-1-ND†	2.15	19.31	85.80	495-2023-2-ND	750	563.25	B82464G4153M
22	±20%	0.052	2.25	495-1800-1-ND†	2.15	19.31	85.80	495-1800-2-ND	750	563.25	B82464G4223M
33	±20%	0.075	1.85	495-1803-1-ND†	2.15	19.31	85.80	495-1803-2-ND	750	563.25	B82464G4333M
47	±20%	0.095	1.55	495-1806-1-ND†	2.15	19.31	85.80	495-1806-2-ND	750	563.25	B82464G4473M
68	±20%	0.13	1.3	495-1809-1-ND†	2.15	19.31	85.80	495-1809-2-ND	750	563.25	B82464G4683M
100	±20%	0.22	1.05	495-1797-1-ND†	2.15	19.31	85.80	495-1797-2-ND	750	563.25	B82464G4104M
150	±20%	0.32	0.85	495-2024-1-ND	2.15	19.31	85.80	495-2024-2-ND	750	563.25	B82464G4154M
220	±20%	0.44	0.7	495-1801-1-ND†	2.15	19.31	85.80	495-1801-2-ND	750	563.25	B82464G4224M
330	±20%	0.65	0.59	495-1804-1-ND	2.15	19.31	85.80	495-1804-2-ND	750	563.25	B82464G4334M
470	±20%	0.93	0.5	495-1807-1-ND†	2.15	19.31	85.80	495-1807-2-ND	750	563.25	B82464G4474M
680	±20%	1.3	0.42	495-1810-1-ND	2.15	19.31	85.80	495-1810-2-ND	750	563.25	B82464G4684M
1000	±20%	2.2	0.34	495-1798-1-ND†	2.15	19.31	85.80	495-1798-2-ND	750	563.25	B82464G4105M
Fig. 15 — B82464A Series											
1.0	±20%	0.009	7.0	495-2001-1-ND†	1.54	13.90	61.78	495-2001-2-ND	750	405.75	B82464A4102M
1.5	±20%	0.01	6.5	495-2005-1-ND†	1.54	13.90	61.78	495-2005-2-ND	750	405.75	B82464A4152M
2.2	±20%	0.012	5.7	495-2008-1-ND†	1.54	13.90	61.78	495-2008-2-ND	750	405.75	B82464A4222M
3.3	±20%	0.015	4.9	495-2011-1-ND†	1.54	13.90	61.78	495-2011-2-ND	750	405.75	B82464A4332M
4.7	±20%	0.018	4.3	495-2014-1-ND†	1.54	13.90	61.78	495-2014-2-ND	750	405.75	B82464A4472M
6.8	±20%	0.027	3.5	495-2017-1-ND†	1.54	13.90	61.78	495-2017-2-ND	750	405.75	B82464A4682M
10	±20%	0.038	2.9	495-2002-1-ND†	1.54	13.90	61.78	495-2002-2-ND	750	405.75	B82464A4103M
15	±10%	0.046	2.5	495-2006-1-ND†	1.54	13.90	61.78	495-2006-2-ND	750	405.75	B82464A4153K
22	±10%	0.085	2.1	495-2009-1-ND†	1.54	13.90	61.78	495-2009-2-ND	750	405.75	B82464A4223K
33	±10%	0.1	1.8	495-2012-1-ND†	1.54	13.90	61.78	495-2012-2-ND	750	405.75	B82464A4333K
47	±10%	0.14	1.5	495-2015-1-ND†	1.54	13.90	61.78	495-2015-2-ND	750	405.75	B82464A4473K

‡ Typical

(Continued)

Fig. 12

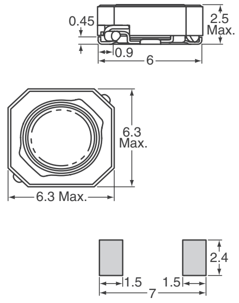

Fig. 13

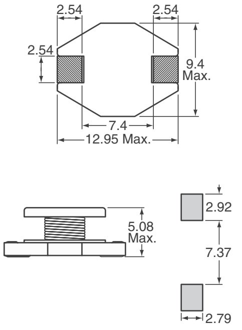

Fig. 14

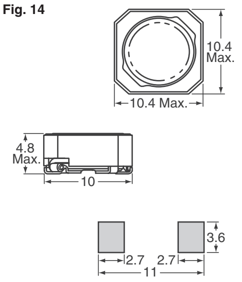

Fig. 15

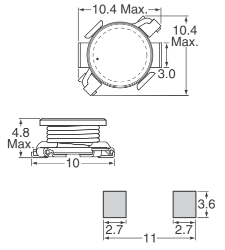

Fig. 16

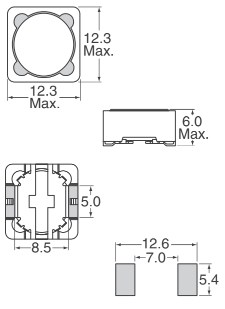

Surface Mount Inductors *(Cont.)*

Inductance (µH)	Inductance Tolerance	DC Res. Max. (Ω)	Current Rating (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epcos Part No.
68	±10%	0.2	1.25	495-2018-1-ND†	1.54	13.90	61.78	495-2018-2-ND	750	405.75	B82464A4683K
100	±10%	0.28	1.03	495-2003-1-ND†	1.54	13.90	61.78	495-2003-2-ND	750	405.75	B82464A4104K
150	±10%	0.40	0.86	495-2007-1-ND	1.54	13.90	61.78	495-2007-2-ND	750	405.75	B82464A4154K
220	±10%	0.61	0.69	495-2010-1-ND†	1.54	13.90	61.78	495-2010-2-ND	750	405.75	B82464A4224K
330	±10%	1.0	0.58	495-2013-1-ND	1.54	13.90	61.78	495-2013-2-ND	750	405.75	B82464A4334K
470	±10%	1.27	0.5	495-2016-1-ND†	1.54	13.90	61.78	495-2016-2-ND	750	405.75	B82464A4474K
680	±10%	2.0	0.4	495-2019-1-ND	1.54	13.90	61.78	495-2019-2-ND	750	405.75	B82464A4684K
1000	±10%	3.0	0.33	495-2004-1-ND†	1.54	13.90	61.78	495-2004-2-ND	750	405.75	B82464A4105K
† **495-1683-ND B82464G/B82464A Series Inductor Kit** 3 Each of Values Denoted........ **$126.75**											
Fig. 16 — B82477 Series											
1.0	±20%	0.009	9	495-2695-1-ND	1.60	14.53	65.32	495-2695-2-ND	600	472.80	B82477G2102M
4.7	±20%	0.02	5	495-2698-1-ND	1.60	14.53	65.32	495-2698-2-ND	600	472.80	B82477G2472M
10	±20%	0.025	4	495-2696-1-ND	1.27	11.56	51.96	495-2696-2-ND	600	376.20	B82477G2103M
47	±20%	0.075	1.8	495-2699-1-ND	1.60	14.53	65.32	495-2699-2-ND	600	472.80	B82477G2473M
100	±20%	0.16	1.3	495-2697-1-ND	1.60	14.53	65.32	495-2697-2-ND	600	472.80	B82477G2104M
470	±20%	0.77	0.58	495-2700-1-ND	1.60	14.53	65.32	495-2700-2-ND	600	472.80	B82477G2474M
Fig. 17 — B82479 Series											
1.0	±20%	0.011	8.6	495-2701-1-ND	1.30	11.85	53.29	495-2701-2-ND	250	160.75	B82479A1102M
10	±20%	0.032	4.3	495-2702-1-ND	1.71	15.50	69.67	495-2702-2-ND	250	210.25	B82479A1103M
47	±20%	0.087	2.6	495-2704-1-ND	1.71	15.50	69.67	495-2704-2-ND	250	210.25	B82479A1473M
100	±20%	0.19	1.8	495-2703-1-ND	1.71	15.50	69.67	495-2703-2-ND	250	210.25	B82479A1104M
470	±20%	0.85	0.82	495-2705-1-ND	1.71	15.50	69.67	495-2705-2-ND	250	210.25	B82479A1474M

‡ Typical

Fig. 17

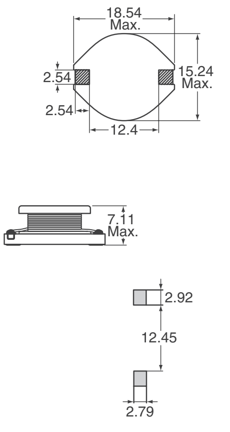

Chokes for Data and Signal Lines

B82790S0513N201: Features: • Current compensated ring core choke with ferrite core • Case flame-retardant per UL94V-0 • Suitable for reflow soldering **Specifications:** • Rated voltage: 42VAC (50/60Hz) / 80VDC

B82793S0513N201: Features: • Current compensated ring core choke with ferrite core • High rated current • Reduced component height • Case flame-retardant per UL94V-0 • Suitable for reflow soldering **Specifications:** • Rated voltage: 42VAC (50/60Hz) / 80VDC

Fig. 1

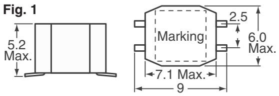

Fig. 2

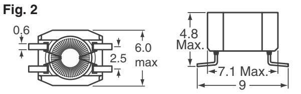

Fig.	Induct. (µH)	DC Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,500	Epcos Part No.
1	51	0.16	500	495-1868-1-ND	4.29	3.86	3.43	495-1868-2-ND	1500.00/M	B82790S0513N201
2	51	0.16	800	495-1869-1-ND	1.97	1.78	1.58	495-1869-2-ND	691.00/M	B82793S0513N201

Chokes for Power Lines

Current Compensated Ring Core Double Chokes

Construction: • Current-compensated ring core double choke with ferrite core • Polycarbonate case • Polyurethane potting • Sector winding **Features:** • Case and potting flame-retardant per UL94V-0 • High resonance frequency owing to a special winding technique • Approximately 1% stray inductance for symmetrical interference suppression **Specifications:** • Rated voltage: 250VAC • Test voltage: 1500VAC for 2 seconds (line/line) • Inductance tolerance: ±30%

Fig. 1

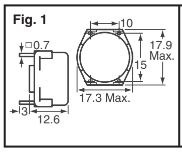

Fig. 2

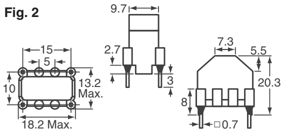

Fig. 3

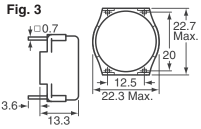

Fig. 4

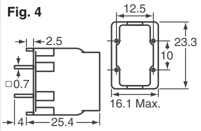

Fig. 5

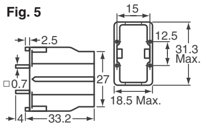

Fig. 6

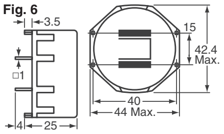

Fig.	Inductance (µH)	DC Res. Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	400	0.035	3600	495-2726-ND	2.20	1.65	1.29	B82721A2362N1
	400	0.06	2600	495-2725-ND	2.20	1.65	1.29	B82721A2262N1
	1000	0.09	2000	495-2724-ND	2.20	1.65	1.29	B82721A2202N1
	3300	0.19	1500	495-2723-ND	2.20	1.65	1.29	B82721A2152N1
	6800	0.28	1200	495-2722-ND	2.20	1.65	1.29	B82721A2122N20
	10000	0.6	700	495-2730-ND	2.20	1.65	1.29	B82721A2701N20
	18000	1.5	500	495-2729-ND	2.20	1.65	1.29	B82721A2501N1
	27000	1.7	400	495-2728-ND	2.20	1.65	1.29	B82721A2401N21
	39000	2.0	400	495-2727-ND	2.20	1.65	1.29	B82721A2401N20
2	400	0.035	3600	495-2735-ND	2.20	1.65	1.29	B82721K2362N1
	400	0.06	2600	495-2734-ND	2.20	1.65	1.29	B82721K2262N1
	1000	0.09	2000	495-2733-ND	2.20	1.65	1.29	B82721K2202N1
	3300	0.19	1500	495-2732-ND	2.20	1.65	1.29	B82721K2152N1
	6800	0.28	1200	495-2731-ND	2.20	1.65	1.29	B82721K2122N20
	10000	0.6	700	495-2739-ND	2.20	1.65	1.29	B82721K2701N20
	18000	1.5	500	495-2738-ND	2.20	1.65	1.29	B82721K2501N1
	27000	1.7	400	495-2737-ND	2.20	1.65	1.29	B82721K2401N21
	39000	2.0	400	495-2736-ND	2.20	1.65	1.29	B82721K2401N20
3	1200	0.056	3000	495-2743-ND	2.33	1.76	1.37	B82722A2302N1
	2200	0.13	2000	495-2741-ND	2.33	1.76	1.37	B82722A2202N1

Fig.	Inductance (µH)	DC Res. Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
3	10000	0.48	1000	495-2740-ND	2.33	1.76	1.37	B82722A2102N1
	27000	1.2	500	495-2744-ND	2.33	1.76	1.37	B82722A2501N1
	47000	2.5	300	495-2742-ND	2.33	1.76	1.37	B82722A2301N1
4	1200	0.056	3000	495-2748-ND	2.33	1.76	1.37	B82722J2302N1
	2200	0.13	2000	495-2746-ND	2.33	1.76	1.37	B82722J2202N1
	10000	0.48	1000	495-2745-ND	2.33	1.76	1.37	B82722J2102N1
	27000	1.2	500	495-2749-ND	2.33	1.76	1.37	B82722J2501N1
	47000	2.5	300	495-2747-ND	2.33	1.76	1.37	B82722J2301N1
5	3300	0.066	4000	495-2753-ND	3.44	2.59	2.01	B82724J2402N1
	6800	0.19	2000	495-2752-ND	3.44	2.59	2.01	B82724J2202N1
	27000	0.5	1400	495-2751-ND	3.44	2.59	2.01	B82724J2142N1
	33000	0.81	1000	495-2750-ND	3.44	2.59	2.01	B82724J2102N1
	82000	2.7	500	495-2754-ND	3.44	2.59	2.01	B82724J2501N1
6	2700	0.022	8000	495-2759-ND	5.69	4.27	3.32	B82725A2802N1
	3900	0.041	6000	495-2758-ND	5.69	4.27	3.32	B82725A2602N1
	6800	0.087	4000	495-2757-ND	5.69	4.27	3.32	B82725A2402N1
	18000	0.35	2000	495-2756-ND	5.69	4.27	3.32	B82725A2202N1
	68000	1.3	1000	495-2755-ND	5.69	4.27	3.32	B82725A2102N1

D Core Chokes

Construction: • Current-compensated double choke with closed, rectangular ferrite core • Closed polycarbonate coil former with 4 sections • Without encapsulation • 2-section winding **Features:** • Coil former is flame-retardant per UL94V-0 • High resonance frequency due to 2-section winding • Low leakage due to closed core shape • High pulse strength • Approximately 1% stray inductance for symmetrical interference suppression **Specifications:** • Rated voltage: 250VAC/DC • Test voltage: 1500VAC for 2 seconds (line/line) • Inductance tolerance: -30/+50%

Fig. 1

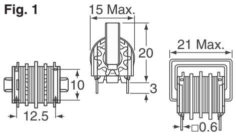

Fig. 2

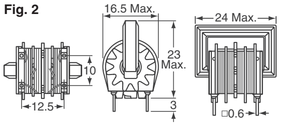

Fig. 3

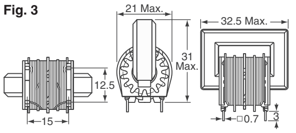

Fig.	Inductance (µH)	DC Res. Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	3300	0.14	1800	495-2762-ND	1.86	1.40	1.09	B82731M2182A30
	6800	0.28	1300	495-2761-ND	1.86	1.40	1.09	B82731M2132A30
	10000	0.4	1100	495-2760-ND	1.86	1.40	1.09	B82731M2112A30
	15000	0.6	900	495-2768-ND	1.86	1.40	1.09	B82731M2901A30
	27000	1.0	700	495-2767-ND	1.86	1.40	1.09	B82731M2701A30

Fig.	Inductance (µH)	DC Res. Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	39000	1.5	600	495-2766-ND	1.86	1.40	1.09	B82731M2601A30
	47000	2.0	500	495-2765-ND	1.86	1.40	1.09	B82731M2501A30
	68000	3.0	400	495-2764-ND	1.86	1.40	1.09	B82731M2401A33
	100000	4.5	350	495-2763-ND	1.86	1.40	1.09	B82731M2351A30

(Continued)

Chokes for Power Lines

D Core Chokes *(Cont.)*

Fig.	Inductance (µH)	DC Res. Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
2	3300	0.11	2200	495-2779-ND	2.18	1.64	1.27	B82732R2222B30
	6800	0.19	1700	495-2778-ND	2.18	1.64	1.27	B82732R2172B30
	10000	0.3	1400	495-2777-ND	2.18	1.64	1.27	B82732R2142B30
	15000	0.44	1100	495-2776-ND	2.18	1.64	1.27	B82732R2112B30
	27000	0.75	900	495-2782-ND	2.18	1.64	1.27	B82732R2901B30
	39000	1.1	700	495-2781-ND	2.18	1.64	1.27	B82732R2701B30
	47000	1.4	600	495-2780-ND	2.18	1.64	1.27	B82732R2601B30

Fig.	Inductance (µH)	DC Res. Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
3	3300	0.046	4600	495-2796-ND	3.74	2.81	2.19	B82734R2462B30
	6800	0.085	3200	495-2795-ND	3.74	2.81	2.19	B82734R2322B30
	10000	0.13	2600	495-2794-ND	3.74	2.81	2.19	B82734R2262B30
	15000	0.185	2300	495-2793-ND	3.74	2.81	2.19	B82734R2232B30
	27000	0.32	1700	495-2792-ND	3.74	2.81	2.19	B82734R2172B30
	39000	0.46	1400	495-2791-ND	3.74	2.81	2.19	B82734R2142B30
	47000	0.56	1300	495-2790-ND	3.74	2.81	2.19	B82734R2132B30

FC Core Chokes

Construction: • Current-compensated double choke • Closed magnetic circuit with frame construction • 4-section winding with direct winding of the core

Features: • High inductance with low resistance • Excellent differential-mode suppression • Low height allows usage in lamp ballasts • High pulse-handling capability

Specifications: • Rated voltage: 250VAC • Test voltage: 1500VAC for 2 seconds (line/line) • Inductance tolerance: ±30%

Fig. 1

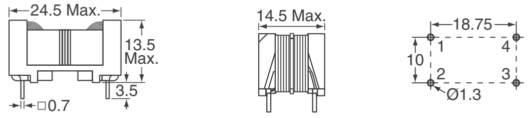

Fig. 2

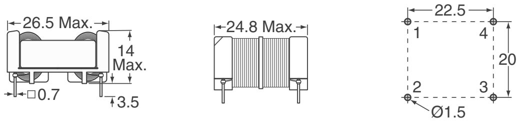

Fig.	Inductance (µH)	DC Res. Typical (Ω)	Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	10000	0.29	1600	495-2770-ND	2.22	1.67	1.30	B82732F2162B001
	15000	0.43	1300	495-2769-ND	2.22	1.67	1.30	B82732F2132B001
	27000	0.77	900	495-2775-ND	2.22	1.67	1.30	B82732F2901B001
	39000	1.1	800	495-2774-ND	2.22	1.67	1.30	B82732F2801B001
	47000	1.26	700	495-2773-ND	2.22	1.67	1.30	B82732F2701B001
	68000	1.97	600	495-2772-ND	2.22	1.67	1.30	B82732F2601B001
	100000	2.93	450	495-2771-ND	2.22	1.67	1.30	B82732F2451B001
2	10000	0.188	2300	495-2787-ND	2.34	1.76	1.37	B82733F2232B001
	15000	0.279	1900	495-2786-ND	2.34	1.76	1.37	B82733F2192B001
	27000	0.44	1400	495-2785-ND	2.34	1.76	1.37	B82733F2142B001
	39000	0.696	1200	495-2784-ND	2.34	1.76	1.37	B82733F2122B001
	47000	0.804	1100	495-2783-ND	2.34	1.76	1.37	B82733F2112B001
	68000	1.1	900	495-2789-ND	2.34	1.76	1.37	B82733F2901B001
	100000	1.81	700	495-2788-ND	2.34	1.76	1.37	B82733F2701B001

Power Line Filters

B84110A Series

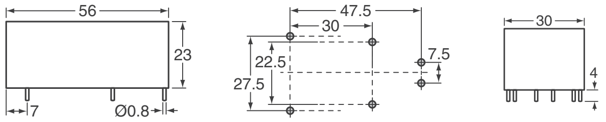

Features: • High insertion loss • Cost-effective solution

Applications: • Medium-performance switch-mode power supplies • Data systems, gambling machines, small-size equipment • DC applications

Specifications: • Rated voltage: 250VDC/AC @ 50/60Hz • Test voltage: 1414VDC for 2 seconds (line/line); 2700VDC for 2 seconds (lines/ground) • Climatic category (IEC 60068-1): 25/100/21

Rated Voltage (VAC/DC)	Current Rating (A)	Rated Inductance (mH)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
250	0.5	2 x 39	495-2800-ND	7.27	6.37	5.28	B84110A0000A005
	1	2 x 10	495-2797-ND	7.43	6.50	5.39	B84110A0000A010
	2	2 x 5.6	495-2798-ND	7.56	6.62	5.49	B84110A0000A020
	4	2 x 2.7	495-2799-ND	7.56	6.62	5.49	B84110A0000A040

B84112G Series

Fig. 1

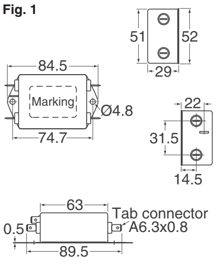

Fig. 2

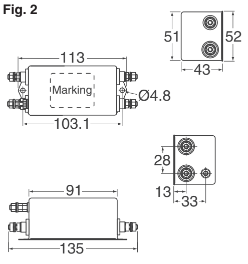

Features:
- Compact Design
- Optimized leakage current

Applications:
- Switch-mode power supplies in industrial electronics, telecommunications, data systems and medical equipment
- DC Applications

Specifications:
- Test voltage: 1414VDC for 2 seconds (line/line); 2700VDC for 2 seconds (lines/case)
- Climatic category (IEC 60068-1): 25/100/21

Fig.	Rated Voltage @ 50/60Hz (VAC/DC)	Current Rating (A)	Rated Inductance (mH)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	250	3	2 x 10	495-2803-ND	14.04	12.29	10.19	B84112G0000B030
		6	2 x 3.3	495-2804-ND	14.33	12.55	10.40	B84112G0000B060
		10	2 x 1.8	495-2801-ND	15.75	13.79	11.42	B84112G0000B110
		16	2 x 1.8	495-2802-ND	18.01	15.76	13.06	B84112G0000B116
2	250	20	2 x 1.8	495-2805-ND	34.83	30.48	25.26	B84112G0000G120
		25	2 x 1.6	495-2806-ND	38.30	33.52	27.77	B84112G0000G125
		36	2 x 0.75	495-2807-ND	42.13	36.87	30.55	B84112G0000G136

B84113H Series

Features:
- Low leakage current
- Compact Design

Applications:
- Switch-mode power supplies in industrial electronics, telecommunications, data systems and medical engineering

Specifications:
- Test voltage: 1414VDC for 2 seconds (line/line); 2700VDC for 2 seconds (line/ground)
- Climatic category (IEC 60068-1): 25/100/21

Fig. 1

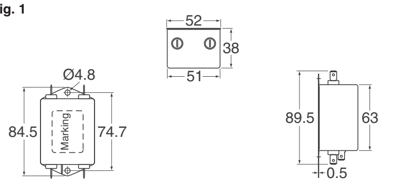

Fig. 2

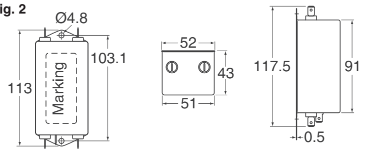

Fig. 3

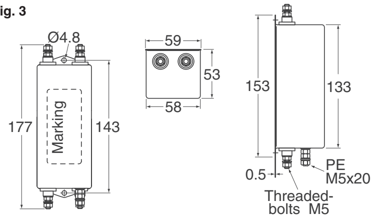

Fig.	Rated Voltage @ 50/60Hz (VAC)	Current Rating (A)	Rated Inductance (mH)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	250	3	4 x 5.9	495-2810-ND	16.93	14.82	12.28	B84113H0000B030
		6	4 x 3.6	495-2811-ND	19.06	16.68	13.82	B84113H0000B060
2	250	10	4 x 3.9	495-2808-ND	20.27	17.74	14.70	B84113H0000B110
		16	4 x 1.3	495-2809-ND	23.18	20.29	16.81	B84113H0000B116
3	250	20	4 x 1.2	495-2812-ND	56.18	49.16	40.73	B84113H0000G120
		25	4 x 0.8	495-2813-ND	61.79	54.07	44.80	B84113H0000G125

API Delevan

Coils and Inductors

Series 1025
Molded Unshielded
RF Coils

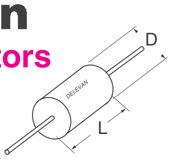

Operating Temperature Range: -55°C ~ 125°C (Phenolic Core), -55°C ~ 105°C (Iron and Ferrite Core) **Maximum Power Dissipation @ 90°C:** .21W (Phenolic Core), .09W (Iron Core), .073W (Ferrite Core)

Dimensions – Inch (mm)		Lead Size AWG #24 (TCW)	Lead Length Inch (mm)
L	D		
.250 (6.35)	.095 (2.41)	.020 (.51)	1.5 (38.1)

Induc-tance (µH)	Q Min.	Test Freq. (MHz)	Max. Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
Series 1025 Phenolic Core (LT4K)								
.10	40	25	1380	DN7708-ND◆	.77	.66	.44	1025R-94K
.12	40	25	1300	DN2596-ND	.77	.66	.44	1025-96K
.12	40	25	1300	DN7709-ND◆	.77	.66	.44	1025R-96K
.33	30	25	830	DN2508-ND	.77	.66	.44	1025-08K
.33	30	25	830	DN7677-ND◆	.77	.66	.44	1025R-08K
.39	30	25	710	DN2510-ND	.77	.66	.44	1025-10K
.39	30	25	710	DN7678-ND◆	.77	.66	.44	1025R-10K
.47	30	25	660	DN2512-ND	.77	.66	.44	1025-12K
.47	30	25	660	DN7679-ND◆	.77	.66	.44	1025R-12K
.56	30	25	550	DN7680-ND◆	.77	.66	.44	1025R-14K
.68	28	25	500	DN2516-ND	.77	.66	.44	1025-16K
.68	28	25	500	DN7681-ND◆	.77	.66	.44	1025R-16K
.82	28	25	420	DN7682-ND◆	.77	.66	.44	1025R-18K
1.0	25	25	390	DN7683-ND◆	.77	.66	.44	1025R-20K
Series 1025 Iron Core (LT10K) — RoHS Compliant								
1.2	25	7.9	620	DN7684-ND	.77	.66	.44	1025R-22K
1.5	28	7.9	560	DN7685-ND	.77	.66	.44	1025R-24K
2.2	30	7.9	415	DN7686-ND	.77	.66	.44	1025R-28K
2.7	37	7.9	355	DN7687-ND	.77	.66	.44	1025R-30K
3.3	45	7.9	285	DN7688-ND	.77	.66	.44	1025R-32K
4.7	45	7.9	239	DN7689-ND	.77	.66	.44	1025R-36K
5.6	50	7.9	195	DN7690-ND	.77	.66	.44	1025R-38K
6.8	50	7.9	185	DN7691-ND	.77	.66	.44	1025R-40K
8.2	55	7.9	160	DN7692-ND	.77	.66	.44	1025R-42K
10	55	7.9	144	DN7693-ND	.77	.66	.44	1025R-44K
12	45	2.5	160	DN7694-ND	.77	.66	.44	1025R-46K
22	50	2.5	144	DN7695-ND	.77	.66	.44	1025R-52K
27	50	2.5	140	DN7696-ND	.77	.66	.44	1025R-54K
Series 1025 Ferrite (LT10K)								
33	45	2.5	130	DN7697-ND◆	.98	.84	.56	1025R-56K
39	45	2.5	125	DN2558-ND	.98	.84	.56	1025-58K
39	45	2.5	125	DN7698-ND◆	.98	.84	.56	1025R-58K
47	45	2.5	110	DN7699-ND◆	.98	.84	.56	1025R-60K
82	50	2.5	88	DN2566-ND	.98	.84	.56	1025-66K
100	50	2.5	84	DN7700-ND◆	.98	.84	.56	1025R-68K
120	30	.79	66	DN2570-ND	.98	.84	.56	1025-70K
150	30	.79	61	DN7701-ND◆	.98	.84	.56	1025R-72K
180	30	.79	57	DN7702-ND◆	.98	.84	.56	1025R-74K
220	30	.79	52	DN7703-ND◆	.98	.84	.56	1025R-76K
270	30	.79	47	DN2578-ND	1.23	1.05	.70	1025-78K
330	30	.79	45	DN7704-ND◆	1.23	1.05	.70	1025R-80K
470	30	.79	36	DN7705-ND◆	1.23	1.05	.70	1025R-84K
560	30	.79	35	DN2586-ND	1.23	1.05	.70	1025-86K
560	30	.79	35	DN7706-ND◆	1.23	1.05	.70	1025R-86K
1,000	30	.79	28	DN7707-ND◆	1.23	1.05	.70	1025R-92K

◆ *RoHS Compliant*

Series 1641
Molded Shielded RF Coils

Operating Temperature Range: -55°C ~ 105°C, **Maximum Power Dissipation @ 90°C:** .11W

Dimensions – Inch (mm)		Lead Size AWG #22 (TCW)	Lead Length Inch (mm)
L	D		
.410 (10.41)	.162 (4.11)	.025" (.64mm)	1.44 (36.58)

Induc-tance (µH)	Q Min.	Test Freq. (MHz)	Max. Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
Series 1641 — Phenolic Core Iron Sleeve (LT10K)								
.10	50	25	1830	DN42075-ND◆	1.37	1.17	.78	1641R-101K
.18	50	25	1330	DN41181-ND	1.37	1.17	.78	1641-181K
.22	49	25	1120	DN42087-ND◆	1.37	1.17	.78	1641R-221K
.39	44	25	680	DN42095-ND◆	1.37	1.17	.78	1641R-391K
.47	44	25	580	DN42099-ND◆	1.37	1.17	.78	1641R-471K
.56	43	25	505	DN42103-ND◆	1.37	1.17	.78	1641R-561K
.68	42	25	430	DN42107-ND◆	1.37	1.17	.78	1641R-681K
Series 1641 — Iron Core Iron Sleeve (LT10K)								
1.0	44	25	1090	DN42076-ND◆	1.37	1.17	.78	1641R-102K
1.5	44	7.9	835	DN42081-ND◆	1.37	1.17	.78	1641R-152K
1.8	44	7.9	775	DN41182-ND	1.37	1.17	.78	1641-182K
1.8	44	7.9	775	DN42084-ND◆	1.37	1.17	.78	1641R-182K
2.2	44	7.9	665	DN42088-ND◆	1.37	1.17	.78	1641R-222K
2.7	44	7.9	545	DN41272-ND	1.37	1.17	.78	1641-272K
3.3	44	7.9	490	DN42092-ND◆	1.37	1.17	.78	1641R-332K
3.9	44	7.9	455	DN42096-ND◆	1.37	1.17	.78	1641R-392K
4.7	44	7.9	390	DN42100-ND◆	1.37	1.17	.78	1641R-472K
5.6	44	7.9	340	DN42104-ND◆	1.37	1.17	.78	1641R-562K
6.8	50	7.9	285	DN42108-ND◆	1.37	1.17	.78	1641R-682K
8.2	50	7.9	250	DN42110-ND◆	1.37	1.17	.78	1641R-822K
10	50	7.9	228	DN42077-ND◆	1.37	1.17	.78	1641R-103K
12	55	2.5	205	DN41123-ND	1.37	1.17	.78	1641-123K
Series 1641 Ferrite Core Ferrite Sleeve (LT10K) — RoHS Compliant								
15	45	2.5	325	DN42082-ND	1.37	1.17	.78	1641R-153K
18	45	2.5	305	DN42085-ND	1.37	1.17	.78	1641R-183K
22	45	2.5	295	DN42089-ND	1.37	1.17	.78	1641R-223K
27	45	2.5	265	DN42091-ND	1.37	1.17	.78	1641R-273K
33	45	2.5	248	DN42093-ND	1.37	1.17	.78	1641R-333K
39	50	2.5	209	DN42097-ND	1.37	1.17	.78	1641R-393K
47	50	2.5	200	DN42101-ND	1.37	1.17	.78	1641R-473K
56	50	2.5	194	DN42105-ND	1.37	1.17	.78	1641R-563K
68	50	2.5	176	DN42109-ND	1.37	1.17	.78	1641R-683K
100	50	2.5	164	DN42078-ND	1.51	1.29	.86	1641R-104K
120	55	.79	153	DN42080-ND	1.51	1.29	.86	1641R-124K
150	55	.79	143	DN42083-ND	1.51	1.29	.86	1641R-154K
180	55	.79	138	DN42086-ND	1.51	1.29	.86	1641R-184K
220	55	.79	130	DN42090-ND	1.51	1.29	.86	1641R-224K
330	55	.79	115	DN42094-ND	1.51	1.29	.86	1641R-334K
390	60	.79	107	DN42098-ND	1.51	1.29	.86	1641R-394K
470	60	.79	94	DN42102-ND	1.51	1.29	.86	1641R-474K
560	60	.79	90	DN42106-ND	1.51	1.29	.86	1641R-564K
1,000	60	.79	70	DN42079-ND	1.51	1.29	.86	1641R-105K

◆ *RoHS Compliant*

Series 2474
Power Inductors

Mechanical Configuration: Units are axial leaded for printed circuit mounting, encapsulated in an epoxy molded case. High resistivity ferrite core allows for high inductance with low DC resistance. **Operating Temperature Range:** -55°C ~ 125°C **Current Rating:** 40°C Rise over 85°C Ambient **Maximum Power Dissipation @ 85°C:** .50W **Inductance:** Measured at 1V with no DC current

Dimensions – Inch (mm)		Lead Size AWG #20 (TCW)	Lead Length Inch (mm)
L	D		
.740 (18.80)	.240 (6.10)	.032" (.81mm)	1.44 (36.58)

Induc-tance (µH)	Max. DC Resist. (Ohms)	Max. Current Rating (Amps)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
Series 2474 Ferrite Core							
1.0	0.009	6.27	DN7710-ND◆	2.98	2.55	1.70	2474R-01L
1.5	0.011	5.67	DN7711-ND◆	2.98	2.55	1.70	2474R-03L
1.8	0.012	5.43	DN7404-ND	2.98	2.55	1.70	2474-04L
2.2	0.013	5.22	DN7712-ND◆	2.98	2.55	1.70	2474R-05L
3.3	0.016	4.70	DN7713-ND◆	2.98	2.55	1.70	2474R-07L
4.7	0.022	4.01	DN7714-ND◆	2.98	2.55	1.70	2474R-09L
6.8	0.026	3.69	DN7715-ND◆	2.98	2.55	1.70	2474R-11L
8.2	0.028	3.55	DN7412-ND	2.98	2.55	1.70	2474-12L
8.2	0.028	3.55	DN7716-ND◆	2.98	2.55	1.70	2474R-12L
10	0.033	3.27	DN7717-ND◆	2.98	2.55	1.70	2474R-13L
12	0.037	3.09	DN7718-ND◆	2.98	2.55	1.70	2474R-14L
15	0.040	2.97	DN7719-ND◆	2.98	2.55	1.70	2474R-15L
18	0.044	2.84	DN7720-ND◆	2.98	2.55	1.70	2474R-16L
22	0.050	2.66	DN7721-ND◆	2.98	2.55	1.70	2474R-17L
27	0.070	2.25	DN7722-ND◆	2.98	2.55	1.70	2474R-18L
33	0.075	2.17	DN7723-ND◆	2.98	2.55	1.70	2474R-19L
39	0.084	2.05	DN7724-ND◆	2.98	2.55	1.70	2474R-20L
47	0.104	1.84	DN7725-ND◆	2.98	2.55	1.70	2474R-21L
56	0.130	1.65	DN7422-ND	2.98	2.55	1.70	2474-22L
56	0.130	1.65	DN7726-ND◆	2.98	2.55	1.70	2474R-22L
68	0.145	1.56	DN7423-ND	2.98	2.55	1.70	2474-23L
68	0.145	1.56	DN7727-ND◆	2.98	2.55	1.70	2474R-23L
82	0.152	1.53	DN7424-ND	2.98	2.55	1.70	2474-24L
82	0.152	1.53	DN7728-ND◆	2.98	2.55	1.70	2474R-24L
100	0.208	1.30	DN7425-ND	2.98	2.55	1.70	2474-25L
100	0.208	1.30	DN7729-ND◆	2.98	2.55	1.70	2474R-25L
120	0.283	1.12	DN7730-ND◆	2.98	2.55	1.70	2474R-26L
180	0.362	0.99	DN7731-ND◆	2.98	2.55	1.70	2474R-28L
220	0.505	0.84	DN7429-ND	2.98	2.55	1.70	2474-29L
220	0.505	0.84	DN7732-ND◆	2.98	2.55	1.70	2474R-29L
270	0.557	0.80	DN7430-ND	2.98	2.55	1.70	2474-30L
330	0.650	0.74	DN7733-ND◆	2.98	2.55	1.70	2474R-31L
390	0.770	0.68	DN7432-ND	2.98	2.55	1.70	2474-32L
470	1.03	0.59	DN7734-ND◆	2.98	2.55	1.70	2474R-33L
560	1.14	0.56	DN7735-ND◆	2.98	2.55	1.70	2474R-34L
680	1.50	0.49	DN7435-ND	2.98	2.55	1.70	2474-35L
680	1.50	0.49	DN7736-ND◆	2.98	2.55	1.70	2474R-35L
1,000	2.30	0.39	DN7737-ND◆	3.61	3.09	2.06	2474R-37L
1,200	2.55	0.37	DN7438-ND	3.61	3.09	2.06	2474-38L
1,800	4.00	0.30	DN7440-ND	3.61	3.09	2.06	2474-40L
2,200	4.40	0.28	DN7738-ND◆	3.61	3.09	2.06	2474R-41L
2,700	5.80	0.25	DN7767-ND◆	2.63	2.25	1.50	2474R-42L
5,600	11.2	0.18	DN7446-ND	3.61	3.09	2.06	2474-46L
8,200	20.8	0.13	DN7448-ND	3.61	3.09	2.06	2474-48L
10,000	23.4	0.12	DN7449-ND	3.61	3.09	2.06	2474-49L
15,000	36.0	0.10	DN7451-ND	3.61	3.09	2.06	2474-51L
18,000	40.0	0.09	DN7452-ND	3.61	3.09	2.06	2474-52L

◆ *RoHS Compliant*

Series 4590 High Current Filter Inductors

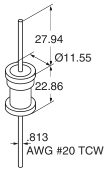

Mechanical Configuration: Ferrite bobbin protected with a flame retardant polyolefin sleeve. High saturation bobbin allows for high inductance with low DCR. High resistivity core offers very high parallel resistance, resulting in maximum coil performance. **Operating Temperature:** -55° ~ 125°C (-55° ~ 85°C @ full rated current) **Maximum Power Dissipation @ 85°C:** .70W **Dielectric Withstanding Voltage:** 2500VRMS

Nom. Induct. ±10% (µH)	Max. DC Resist. (Ohms)	Max. Current Rating (Amps)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
3.9	0.007	9.75	DN4495-ND	2.63	2.25	1.50	4590-392K
3.9	0.007	9.75	DN7769-ND◆	2.63	2.25	1.50	4590R-392K
4.7	0.008	9.11	DN7773-ND◆	2.63	2.25	1.50	4590R-472K
5.6	0.011	7.77	DN7777-ND◆	2.63	2.25	1.50	4590R-562K
6.8	0.011	7.60	DN4498-ND	2.63	2.25	1.50	4590-682K
6.8	0.011	7.60	DN7781-ND◆	2.63	2.25	1.50	4590R-682K
10	0.016	6.44	DN7748-ND◆	2.63	2.25	1.50	4590R-103K
15	0.020	5.76	DN4502-ND	2.63	2.25	1.50	4590-153K
15	0.020	5.76	DN7756-ND◆	2.63	2.25	1.50	4590R-153K
22	0.024	5.26	DN7760-ND◆	2.63	2.25	1.50	4590R-223K
27	0.025	5.15	DN7764-ND◆	2.63	2.25	1.50	4590R-273K
33	0.028	4.87	DN4506-ND	2.63	2.25	1.50	4590-333K
33	0.028	4.87	DN7766-ND◆	2.63	2.25	1.50	4590R-333K
39	0.028	4.87	DN4507-ND	2.63	2.25	1.50	4590-393K
39	0.028	4.87	DN7770-ND◆	2.63	2.25	1.50	4590R-393K
47	0.034	4.45	DN7774-ND◆	2.63	2.25	1.50	4590R-473K
56	0.043	3.93	DN7778-ND◆	2.63	2.25	1.50	4590R-563K
68	0.059	3.35	DN7782-ND◆	2.63	2.25	1.50	4590R-683K
82	0.066	3.17	DN7785-ND◆	2.63	2.25	1.50	4590R-823K
100	0.084	2.81	DN7749-ND◆	2.63	2.25	1.50	4590R-104K
120	0.113	2.43	DN7753-ND◆	2.63	2.25	1.50	4590R-124K
150	0.129	2.27	DN7757-ND◆	2.63	2.25	1.50	4590R-154K
180	0.150	2.10	DN4515-ND	2.63	2.25	1.50	4590-184K
220	0.162	2.02	DN4516-ND	2.63	2.25	1.50	4590-224K
220	0.162	2.02	DN7761-ND◆	2.63	2.25	1.50	4590R-224K
270	0.226	1.71	DN7765-ND◆	2.63	2.25	1.50	4590R-274K
330	0.257	1.61	DN7767-ND◆	2.63	2.25	1.50	4590R-334K
390	0.288	1.52	DN7771-ND◆	2.63	2.25	1.50	4590R-394K
470	0.393	1.30	DN7775-ND◆	2.63	2.25	1.50	4590R-474K
560	0.504	1.15	DN4521-ND	2.63	2.25	1.50	4590-564K
560	0.504	1.15	DN7779-ND◆	2.63	2.25	1.50	4590R-564K
680	0.570	1.08	DN7783-ND◆	2.63	2.25	1.50	4590R-684K
820	0.643	1.01	DN7786-ND◆	2.63	2.25	1.50	4590R-824K
1,000	0.844	0.89	DN7750-ND◆	2.87	2.46	1.64	4590R-105K
1,200	0.977	0.82	DN4525-ND	2.87	2.46	1.64	4590-125K
1,200	0.977	0.82	DN7754-ND◆	2.87	2.46	1.64	4590R-125K
1,500	1.18	0.75	DN7758-ND◆	2.87	2.46	1.64	4590R-155K
2,200	1.76	0.61	DN7762-ND◆	2.87	2.46	1.64	4590R-225K
3,300	2.53	0.51	DN7768-ND◆	2.87	2.46	1.64	4590R-335K
3,900	2.84	0.48	DN7772-ND◆	2.87	2.46	1.64	4590R-395K
4,700	3.79	0.41	DN7776-ND◆	2.87	2.46	1.64	4590R-475K
5,600	4.24	0.39	DN7780-ND◆	2.87	2.46	1.64	4590R-565K
6,800	5.75	0.34	DN4534-ND	2.87	2.46	1.64	4590-685K
6,800	5.75	0.34	DN7784-ND◆	2.87	2.46	1.64	4590R-685K
8,200	6.44	0.32	DN7787-ND◆	2.87	2.46	1.64	4590R-825K
10,000	7.30	0.30	DN7751-ND◆	2.87	2.46	1.64	4590R-106K
12,000	9.34	0.26	DN4537-ND	2.87	2.46	1.64	4590-126K
12,000	9.34	0.26	DN7755-ND◆	2.87	2.46	1.64	4590R-126K
15,000	10.7	0.25	DN7759-ND◆	2.87	2.46	1.64	4590R-156K
22,000	18.0	0.19	DN7763-ND◆	2.87	2.46	1.64	4590R-226K
47,000	33.7	0.14	DN4544-ND	2.87	2.46	1.64	4590-476K
100,000	76.0	0.09	DN7752-ND◆	2.87	2.46	1.64	4590R-107K

◆ *RoHS Compliant*

(Continued)

Series 1008 Unshielded Surface Mount Inductors

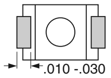

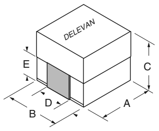

Operating Temperature Range: -67°F ~ 257°F (-55°C ~ 125°C)
Maximum Power Dissipation @ 90°C: .169W (Phenolic), .208W (Ferrite)

Dimensions – Inch (mm)				
A (over terminals)	**B**	**C (over terminals)**	**D**	**E (Ref. only)**
.100 (2.54)	.080 (2.03)	.080 (2.03)	.055 (1.40)	.046 (1.17)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series 1008 Phenolic Core — K Tolerance, ±10%										
.010	50	40	1562	DN42005CT-ND◆	2.56	2.44	1.59	DN42005TR-ND◆	472.75	1008R-100K
.015	50	40	1381	DN08150CT-ND	2.56	2.44	1.59	DN08150TR-ND	472.75	1008-150K
.018	50	40	1320	DN08180CT-ND	2.56	2.44	1.59	DN08180TR-ND	472.75	1008-180K
.022	50	35	1235	DN08220CT-ND	2.56	2.44	1.59	—	—	1008-220K
.022	50	35	1235	DN42013CT-ND◆	2.56	2.44	1.59	DN42013TR-ND◆	472.75	1008R-220K
.027	50	35	1164	DN08270CT-ND	2.56	2.44	1.59	DN08270TR-ND	472.75	1008-270K
.033	50	30	1105	DN08330CT-ND	2.56	2.44	1.59	DN08330TR-ND	472.75	1008-330K
.033	50	30	1105	DN42017CT-ND◆	2.56	2.44	1.59	DN42017TR-ND◆	472.75	1008R-330K
.039	50	30	1053	DN08390CT-ND	2.56	2.44	1.59	DN08390TR-ND	472.75	1008-390K
.047	50	30	1108	DN08470CT-ND	2.56	2.44	1.59	DN08470TR-ND	472.75	1008-470K
.047	50	30	1108	DN42019CT-ND◆	2.56	2.44	1.59	DN42019TR-ND◆	472.75	1008R-470K
.056	50	25	847	DN08560CT-ND	2.56	2.44	1.59	DN08560TR-ND	472.75	1008-560K
.068	50	25	823	DN08680CT-ND	2.56	2.44	1.59	DN08680TR-ND	472.75	1008-680K
.068	50	25	823	DN42024CT-ND◆	2.56	2.44	1.59	DN42024TR-ND◆	472.75	1008R-680K
.082	50	25	801	DN42026CT-ND◆	2.56	2.44	1.59	DN42026TR-ND◆	472.75	1008R-820K
.100	25	15	728	DN42006CT-ND◆	2.56	2.44	1.59	DN42006TR-ND◆	472.75	1008R-101K
Series 1008 Ferrite Core — K Tolerance, ±10%										
.12	25	40	1225	DN08121CT-ND	2.56	2.44	1.59	DN08121TR-ND	472.75	1008-121K
.15	25	40	1168	DN08151CT-ND	2.56	2.44	1.59	—	—	1008-151K
.15	25	40	1168	DN42010CT-ND◆	2.56	2.44	1.59	DN42010TR-ND◆	472.75	1008R-151K
.18	25	40	1119	DN08181CT-ND	2.56	2.44	1.59	DN08181TR-ND	472.75	1008-181K
.22	25	40	1055	DN08221CT-ND	2.56	2.44	1.59	—	—	1008-221K
.22	25	40	1055	DN42014CT-ND◆	2.56	2.44	1.59	DN42014TR-ND◆	472.75	1008R-221K
.33	25	40	954	DN08331CT-ND	2.56	2.44	1.59	DN08331TR-ND	472.75	1008-331K
.47	25	40	846	DN08471CT-ND	2.56	2.44	1.59	DN08471TR-ND	472.75	1008-471K
.47	25	40	846	DN42020CT-ND◆	2.56	2.44	1.59	DN42020TR-ND◆	472.75	1008R-471K
.56	25	40	808	DN08561CT-ND	2.56	2.44	1.59	DN08561TR-ND	472.75	1008-561K
.68	25	40	760	DN42025CT-ND◆	2.56	2.44	1.59	DN42025TR-ND◆	472.75	1008R-681K
.82	25	40	708	DN08821CT-ND	2.56	2.44	1.59	DN08821TR-ND	472.75	1008-821K
Series 1008 Ferrite Core — J Tolerance, ±5%										
1.0	7.9	30	685	DN42007JCT-ND◆	2.56	2.44	1.59	DN42007JTR-ND◆	472.75	1008R-102J
1.2	7.9	30	591	DN08122JCT-ND	2.56	2.44	1.59	DN08122JTR-ND	472.75	1008-122J
1.2	7.9	30	591	DN42009JCT-ND◆	2.56	2.44	1.59	DN42009JTR-ND◆	472.75	1008R-122J
1.5	7.9	30	548	DN08152JCT-ND	2.56	2.44	1.59	DN08152JTR-ND	472.75	1008-152J
1.5	7.9	30	548	DN42011JCT-ND◆	2.56	2.44	1.59	DN42011JTR-ND◆	472.75	1008R-152J
2.2	7.9	30	433	DN42015JCT-ND◆	2.56	2.44	1.59	DN42015JTR-ND◆	472.75	1008R-222J
3.3	7.9	30	398	DN08332JCT-ND	2.56	2.44	1.59	DN08332JTR-ND	472.75	1008-332J
3.3	7.9	30	398	DN42018JCT-ND◆	2.56	2.44	1.59	DN42018JTR-ND◆	472.75	1008R-332J
3.9	7.9	30	354	DN08392JCT-ND	2.56	2.44	1.59	DN08392JTR-ND	472.75	1008-392J
4.7	7.9	30	334	DN42021JCT-ND◆	2.56	2.44	1.59	DN42021JTR-ND◆	472.75	1008R-472J
5.6	7.9	30	312	DN08562JCT-ND	2.56	2.44	1.59	DN08562JTR-ND	472.75	1008-562J
5.6	7.9	30	312	DN42023JCT-ND◆	2.56	2.44	1.59	DN42023JTR-ND◆	472.75	1008R-562J
6.8	7.9	30	274	DN08682JCT-ND	2.56	2.44	1.59	DN08682JTR-ND	472.75	1008-682J
10	7.9	30	245	DN42008JCT-ND◆	2.56	2.44	1.59	DN42008JTR-ND◆	472.75	1008R-103J
15	2.5	30	194	DN08153JCT-ND	2.56	2.44	1.59	DN08153JTR-ND	472.75	1008-153J
15	2.5	30	194	DN42012JCT-ND◆	2.56	2.44	1.59	DN42012JTR-ND◆	472.75	1008R-153J
18	2.5	30	173	DN08183JCT-ND	2.56	2.44	1.59	—	—	1008-183J
22	2.5	30	158	DN08223JCT-ND	2.56	2.44	1.59	DN08223JTR-ND	472.75	1008-223J
22	2.5	30	158	DN42016JCT-ND◆	2.56	2.44	1.59	DN42016JTR-ND◆	472.75	1008R-223J
33	2.5	30	135	DN08333JCT-ND	2.56	2.44	1.59	DN08333JTR-ND	472.75	1008-333J
47	2.5	30	120	DN08473JCT-ND	2.56	2.44	1.59	—	—	1008-473J
47	2.5	30	120	DN42022JCT-ND◆	2.56	2.44	1.59	DN42022JTR-ND◆	472.75	1008R-473J

1008RKIT-ND◆ (1008RKIT) **Series 1008 Inductor Kit**
5 each of 54 values (0.0018µH ~ 47.0µH), 270 total pieces **$338.10**
◆ ***RoHS Compliant***

Series S1008 Shielded Surface Mount Inductors

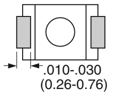

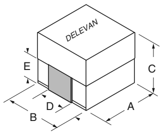

Operating Temperature Range: -55°C ~ 125°C
Maximum Power Dissipation @ 90°C: .157W

Dimensions – Inch (mm)				
A (over terminals)	**B**	**C (over terminals)**	**D**	**E**
.100 (2.54)	.080 (2.03)	.080 (2.03)	.055 (1.40)	.046 (1.17)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series S1008 Ferrite Core, ±10%										
.10	25	40	1120	DN7879CT-ND◆	2.94	2.80	1.82	DN7879TR-ND◆	542.50	S1008R-101K
.15	25	40	1015	DN1003CT-ND	2.94	2.80	1.82	DN1003TR-ND	542.50	S1008-151K
.27	25	40	900	DN1006CT-ND	2.94	2.80	1.82	DN1006TR-ND	542.50	S1008-271K
.33	25	40	865	DN7891CT-ND◆	2.94	2.80	1.82	DN7891TR-ND◆	542.50	S1008R-331K
.39	25	40	840	DN1008CT-ND	2.94	2.80	1.82	DN1008TR-ND	542.50	S1008-391K
.47	25	40	815	DN7894CT-ND◆	2.94	2.80	1.82	DN7894TR-ND◆	542.50	S1008R-471K
.56	25	40	790	DN1010CT-ND	2.94	2.80	1.82	DN1010TR-ND	542.50	S1008-561K
.56	25	40	790	DN7897CT-ND◆	2.94	2.80	1.82	DN7897TR-ND◆	542.50	S1008R-561K
.68	25	40	750	DN1012CT-ND	2.94	2.80	1.82	DN1012TR-ND	542.50	S1008-681K
.68	25	40	750	DN7898CT-ND◆	2.94	2.80	1.82	DN7898TR-ND◆	542.50	S1008R-681K
.82	25	40	715	DN1014CT-ND	2.94	2.80	1.82	DN1014TR-ND	542.50	S1008-821K
.82	25	40	715	DN7900CT-ND◆	2.94	2.80	1.82	DN7900TR-ND◆	542.50	S1008R-821K
.91	25	40	685	DN7902CT-ND◆	2.94	2.80	1.82	DN7902TR-ND◆	542.50	S1008R-911K
1.0	7.9	30	670	DN7880CT-ND◆	2.94	2.80	1.82	DN7880TR-ND◆	542.50	S1008R-102K
1.2	7.9	30	625	DN1017CT-ND	2.94	2.80	1.82	DN1017TR-ND	542.50	S1008-122K
1.2	7.9	30	625	DN7882CT-ND◆	2.94	2.80	1.82	DN7882TR-ND◆	542.50	S1008R-122K
1.5	7.9	30	545	DN1018CT-ND	2.94	2.80	1.82	—	—	S1008-152K
1.5	7.9	30	545	DN7884CT-ND◆	2.94	2.80	1.82	DN7884TR-ND◆	542.50	S1008R-152K
2.2	7.9	30	375	DN1020CT-ND	2.94	2.80	1.82	DN1020TR-ND	542.50	S1008-222K
2.2	7.9	30	375	DN7887CT-ND◆	2.94	2.80	1.82	DN7887TR-ND◆	542.50	S1008R-222K
2.7	7.9	30	365	DN1021CT-ND	2.94	2.80	1.82	DN1021TR-ND	542.50	S1008-272K
2.7	7.9	30	365	DN7889CT-ND◆	2.94	2.80	1.82	DN7889TR-ND◆	542.50	S1008R-272K
3.3	7.9	30	355	DN7892CT-ND◆	2.94	2.80	1.82	DN7892TR-ND◆	542.50	S1008R-332K
4.7	7.9	30	305	DN7895CT-ND◆	2.94	2.80	1.82	DN7895TR-ND◆	542.50	S1008R-472K
6.8	7.9	30	250	DN7899CT-ND◆	2.94	2.80	1.82	DN7899TR-ND◆	542.50	S1008R-682K
8.2	7.9	30	240	DN7901CT-ND◆	2.94	2.80	1.82	DN7901TR-ND◆	542.50	S1008R-822K
10	7.9	30	230	DN7881CT-ND◆	2.94	2.80	1.82	DN7881TR-ND◆	542.50	S1008R-103K
12	2.5	30	220	DN1029CT-ND	2.94	2.80	1.82	DN1029TR-ND	542.50	S1008-123K
12	2.5	30	220	DN7883CT-ND◆	2.94	2.80	1.82	DN7883TR-ND◆	542.50	S1008R-123K
15	2.5	30	210	DN1030CT-ND	2.94	2.80	1.82	—	—	S1008-153K
15	2.5	30	210	DN7885CT-ND◆	2.94	2.80	1.82	DN7885TR-ND◆	542.50	S1008R-153K
18	2.5	30	200	DN1031CT-ND	2.94	2.80	1.82	—	—	S1008-183K
18	2.5	30	200	DN7886CT-ND◆	2.94	2.80	1.82	DN7886TR-ND◆	542.50	S1008R-183K
22	2.5	30	170	DN1032CT-ND	2.94	2.80	1.82	—	—	S1008-223K
22	2.5	30	170	DN7888CT-ND◆	2.94	2.80	1.82	DN7888TR-ND◆	542.50	S1008R-223K
27	2.5	30	160	DN1033CT-ND	2.94	2.80	1.82	DN1033TR-ND	542.50	S1008-273K
27	2.5	30	160	DN7890CT-ND◆	2.94	2.80	1.82	DN7890TR-ND◆	542.50	S1008R-273K
33	2.5	30	125	DN7893CT-ND◆	2.94	2.80	1.82	DN7893TR-ND◆	542.50	S1008R-333K
47	2.5	30	110	DN7896CT-ND◆	2.94	2.80	1.82	DN7896TR-ND◆	542.50	S1008R-473K

S1008RKIT-ND◆ (S1008RKIT) **Series S1008 Inductor Kit**
5 each of 36 values (0.1µH to 47.0µH), 180 total pieces **$236.25**
◆ ***RoHS Compliant***

Series 1210 Unshielded Surface Mount Inductors

Operating Temperature Range:
-67°F ~ 257°F (-55°C ~ 125°C)
Maximum Power Dissipation @ 90°C Ambient:
.168W (Phenolic), .287W (Iron and Ferrite)

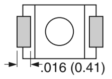

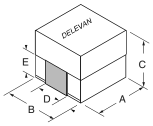

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	**B**	**C (over terminals)**	**D**	**E (Ref. only)**
.118 ~ .138 (3.00 ~ 3.51)	.085 ~ .105 (2.16 ~ 2.67)	.081 ~ .101 (2.06 ~ 2.57)	.041 ~ .061 (1.04 ~ 1.55)	.054 (1.37)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series 1210 Phenolic Core, ±10%										
.010	50	30	966	DN10100CT-ND	.92	.88	.58	DN10100TR-ND	170.50	1210-100K
.010	50	30	966	DN42027CT-ND◆	.92	.88	.58	DN42027TR-ND◆	170.50	1210R-100K
.012	50	30	931	DN10120CT-ND	.92	.88	.58	—	—	1210-120K
.015	50	30	871	DN42034CT-ND◆	.92	.88	.58	DN42034TR-ND◆	170.50	1210R-150K
.018	50	30	821	DN10180CT-ND	.92	.88	.58	—	—	1210-180K
.022	50	30	779	DN42048CT-ND◆	.92	.88	.58	DN42048TR-ND◆	170.50	1210R-220K
.027	50	30	743	DN10270CT-ND	.92	.88	.58	—	—	1210-270K
.033	50	30	711	DN10330CT-ND	.92	.88	.58	DN10330TR-ND	170.50	1210-330K
.033	50	30	711	DN42055CT-ND◆	.92	.88	.58	DN42055TR-ND◆	170.50	1210R-330K
.039	50	30	670	DN10390CT-ND	.92	.88	.58	—	—	1210-390K
.047	50	30	636	DN10470CT-ND	.92	.88	.58	DN10470TR-ND	170.50	1210-470K
.047	50	30	636	DN42061CT-ND◆	.92	.88	.58	DN42061TR-ND◆	170.50	1210R-470K
.056	50	30	606	DN10560CT-ND	.92	.88	.58	—	—	1210-560K
.068	50	30	580	DN42068CT-ND◆	.92	.88	.58	DN42068TR-ND◆	170.50	1210R-680K
.082	50	30	551	DN10820CT-ND	.92	.88	.58	DN10820TR-ND	170.50	1210-820K
.082	50	30	551	DN42072CT-ND◆	.92	.88	.58	DN42072TR-ND◆	170.50	1210R-820K
Series 1210 Iron Core, ±10%										
.10	25	30	1018	DN10101CT-ND	.92	.88	.58	—	—	1210-101K
.10	25	30	1018	DN42028CT-ND◆	.92	.88	.58	DN42028TR-ND◆	170.50	1210R-101K
.12	25	30	971	DN10121CT-ND	.92	.88	.58	DN10121TR-ND	170.50	1210-121K
.12	25	30	971	DN42032CT-ND◆	.92	.88	.58	DN42032TR-ND◆	170.50	1210R-121K
.15	25	30	910	DN10151CT-ND	.92	.88	.58	DN10151TR-ND	170.50	1210-151K
.15	25	30	910	DN42035CT-ND◆	.92	.88	.58	DN42035TR-ND◆	170.50	1210R-151K
.22	25	30	805	DN10221CT-ND	.92	.88	.58	DN10221TR-ND	170.50	1210-221K
.22	25	30	805	DN42049CT-ND◆	.92	.88	.58	DN42049TR-ND◆	170.50	1210R-221K
.27	25	30	759	DN42052CT-ND◆	.92	.88	.58	DN42052TR-ND◆	170.50	1210R-271K
.33	25	30	720	DN10331CT-ND	.92	.88	.58	DN10331TR-ND	170.50	1210-331K
.39	25	30	679	DN10391CT-ND	.92	.88	.58	—	—	1210-391K
.39	25	30	679	DN42058CT-ND◆	.92	.88	.58	DN42058TR-ND◆	170.50	1210R-391K
.47	25	30	644	DN42062CT-ND◆	.92	.88	.58	DN42062TR-ND◆	170.50	1210R-471K
.56	25	30	614	DN42065CT-ND◆	.92	.88	.58	DN42065TR-ND◆	170.50	1210R-561K
.68	25	30	588	DN42069CT-ND◆	.92	.88	.58	DN42069TR-ND◆	170.50	1210R-681K
.82	25	30	556	DN10821CT-ND	.92	.88	.58	—	—	1210-821K
.82	25	30	556	DN42073CT-ND◆	.92	.88	.58	DN42073TR-ND◆	170.50	1210R-821K
Series 1210 Ferrite Core, ±5%										
1.0	7.9	30	515	DN42029JCT-ND◆	1.05	1.00	.65	DN42029JTR-ND◆	193.75	1210R-102J
1.2	7.9	30	497	DN42033JCT-ND◆	1.05	1.00	.65	DN42033JTR-ND◆	193.75	1210R-122J
1.5	7.9	30	467	DN42036JCT-ND◆	1.05	1.00	.65	DN42036JTR-ND◆	193.75	1210R-152J
1.8	7.9	30	454	DN10182JCT-ND	1.05	1.00	.65	DN10182JTR-ND	193.75	1210-182J
1.8	7.9	30	454	DN42046JCT-ND◆	1.05	1.00	.65	DN42046JTR-ND◆	193.75	1210R-182J
2.2	7.9	30	431	DN42050JCT-ND◆	1.05	1.00	.65	DN42050JTR-ND◆	193.75	1210R-222J
2.7	7.9	30	411	DN42053JCT-ND◆	1.05	1.00	.65	DN42053JTR-ND◆	193.75	1210R-272J
3.3	7.9	30	393	DN10332JCT-ND	1.05	1.00	.65	DN10332JTR-ND	193.75	1210-332J
3.3	7.9	30	393	DN42143JCT-ND◆	1.05	1.00	.65	DN42143JTR-ND◆	193.75	1210R-332J
3.9	7.9	30	378	DN42059JCT-ND◆	1.05	1.00	.65	DN42059JTR-ND◆	193.75	1210R-392J
4.7	7.9	30	352	DN10472JCT-ND	1.05	1.00	.65	DN10472JTR-ND	193.75	1210-472J

◆ ***RoHS Compliant***

(Continued)

Series 1210 Unshielded Surface Mount Inductors *(Cont.)*

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max.(mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
4.7	7.9	30	352	DN42063JCT-ND◆	1.05	1.00	.65	DN42063JTR-ND◆	193.75	1210R-472J
5.6	7.9	30	341	DN10562JCT-ND	1.05	1.00	.65	DN10562JTR-ND	193.75	1210-562J
5.6	7.9	30	341	DN42066JCT-ND◆	1.05	1.00	.65	DN42066JTR-ND◆	193.75	1210R-562J
6.8	7.9	30	321	DN42070JCT-ND◆	1.05	1.00	.65	DN42070JTR-ND◆	193.75	1210R-682J
8.2	7.9	30	305	DN42074JCT-ND◆	1.05	1.00	.65	DN42074JTR-ND◆	193.75	1210R-822J
10	7.9	30	297	DN42030JCT-ND◆	1.05	1.00	.65	DN42030JTR-ND◆	193.75	1210R-103J
15	2.5	30	257	DN10153JCT-ND	1.05	1.00	.65	DN10153JTR-ND	193.75	1210-153J
15	2.5	30	257	DN42037JCT-ND◆	1.05	1.00	.65	DN42037JTR-ND◆	193.75	1210R-153J
18	2.5	30	237	DN10183JCT-ND	1.05	1.00	.65	DN10183JTR-ND	193.75	1210-183J
18	2.5	30	237	DN42047JCT-ND◆	1.05	1.00	.65	DN42047JTR-ND◆	193.75	1210R-183J
22	2.5	30	224	DN42051JCT-ND◆	1.05	1.00	.65	DN42051JTR-ND◆	193.75	1210R-223J
27	2.5	30	193	DN10273JCT-ND	1.05	1.00	.65	DN10273JTR-ND	193.75	1210-273J
27	2.5	30	193	DN42054JCT-ND◆	1.05	1.00	.65	DN42054JTR-ND◆	193.75	1210R-273J
33	2.5	30	182	DN42057JCT-ND◆	1.05	1.00	.65	DN42057JTR-ND◆	193.75	1210R-333J
39	2.5	30	170	DN42060JCT-ND◆	1.05	1.00	.65	DN42060JTR-ND◆	193.75	1210R-393J
47	2.5	30	163	DN42064JCT-ND◆	1.05	1.00	.65	DN42064JTR-ND◆	193.75	1210R-473J
56	2.5	30	152	DN10563JCT-ND	1.05	1.00	.65	—	—	1210-563J
56	2.5	30	152	DN42067JCT-ND◆	1.05	1.00	.65	DN42067JTR-ND◆	193.75	1210R-563J
68	2.5	30	144	DN10683JCT-ND	1.05	1.00	.65	DN10683JTR-ND	193.75	1210-683J
68	2.5	30	144	DN42071JCT-ND◆	1.05	1.00	.65	DN42071JTR-ND◆	193.75	1210R-683J
100	2.5	30	120	DN42031JCT-ND◆	1.05	1.00	.65	DN42031JTR-ND◆	193.75	1210R-104J

1210RKIT-ND◆ (1210RKIT) **Series 1210 Inductor Kit**
5 each of 58 values (0.0018µH to 100.0µH), 290 total pieces..**$236.25**

◆ ***RoHS Compliant***

Series S1210 Shielded Surface Mount Inductors

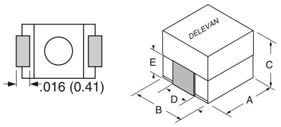

Operating Temperature Range: -55°C ~ 125°C
Maximum Power Dissipation @ 90°C: .266W (Iron), .224W (Ferrite)

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E
.118 ~ .138 (3.00 ~ 3.51)	.085 ~ .105 (2.16 ~ 2.67)	.081 ~ .101 (2.06 ~ 2.57)	.041 ~ .061 (1.04 ~ 1.55)	.054 (1.37)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series S1210 Iron Core, ±10%										
.10	25	40	1175	DN1050CT-ND	1.30	1.24	.81	DN1050TR-ND	240.25	S1210-101K
.10	25	40	1175	DN7903CT-ND◆	1.30	1.24	.81	DN7903TR-ND◆	240.25	S1210R-101K
.12	25	40	1104	DN1051CT-ND	1.30	1.24	.81	DN1051TR-ND	240.25	S1210-121K
.12	25	40	1104	DN7907CT-ND◆	1.30	1.24	.81	DN7907TR-ND◆	240.25	S1210R-121K
.15	25	40	1017	DN1052CT-ND	1.30	1.24	.81	—	—	S1210-151K
.15	25	40	1017	DN7909CT-ND◆	1.30	1.24	.81	DN7909TR-ND◆	240.25	S1210R-151K
.18	25	40	971	DN7912CT-ND◆	1.30	1.24	.81	DN7912TR-ND◆	240.25	S1210R-181K
.33	25	40	831	DN7918CT-ND◆	1.30	1.24	.81	DN7918TR-ND◆	240.25	S1210R-331K
.39	25	40	720	DN7921CT-ND◆	1.30	1.24	.81	DN7921TR-ND◆	240.25	S1210R-391K
.47	25	40	679	DN7924CT-ND◆	1.30	1.24	.81	DN7924TR-ND◆	240.25	S1210R-471K
.56	25	40	644	DN7927CT-ND◆	1.30	1.24	.81	DN7927TR-ND◆	240.25	S1210R-561K
.68	25	40	614	DN7929CT-ND◆	1.30	1.24	.81	DN7929TR-ND◆	240.25	S1210R-681K
.82	25	40	588	DN7931CT-ND◆	1.30	1.24	.81	DN7931TR-ND◆	240.25	S1210R-821K
Series S1210 Ferrite Core, ±10%										
1.0	7.9	40	679	DN7904CT-ND◆	1.30	1.24	.81	DN7904TR-ND◆	240.25	S1210R-102K
1.2	7.9	40	650	DN1063CT-ND	1.30	1.24	.81	DN1063TR-ND	240.25	S1210-122K
1.2	7.9	40	650	DN7908CT-ND◆	1.30	1.24	.81	DN7908TR-ND◆	240.25	S1210R-122K
1.5	7.9	40	603	DN1064CT-ND	1.30	1.24	.81	—	—	S1210-152K
1.5	7.9	40	603	DN7910CT-ND◆	1.30	1.24	.81	DN7910TR-ND◆	240.25	S1210R-152K
1.8	7.9	40	564	DN1065CT-ND	1.30	1.24	.81	DN1065TR-ND	240.25	S1210-182K
1.8	7.9	40	564	DN7913CT-ND◆	1.30	1.24	.81	DN7913TR-ND◆	240.25	S1210R-182K
2.2	7.9	40	533	DN7914CT-ND◆	1.30	1.24	.81	DN7914TR-ND◆	240.25	S1210R-222K
2.7	7.9	40	526	DN7916CT-ND◆	1.30	1.24	.81	DN7916TR-ND◆	240.25	S1210R-272K
3.3	7.9	40	509	DN7919CT-ND◆	1.30	1.24	.81	DN7919TR-ND◆	240.25	S1210R-332K
3.9	7.9	40	500	DN1069CT-ND	1.30	1.24	.81	DN1069TR-ND	240.25	S1210-392K
3.9	7.9	40	500	DN7922CT-ND◆	1.30	1.24	.81	DN7922TR-ND◆	240.25	S1210R-392K
4.7	7.9	40	455	DN7925CT-ND◆	1.30	1.24	.81	DN7925TR-ND◆	240.25	S1210R-472K
5.6	7.9	40	399	DN1071CT-ND	1.30	1.24	.81	DN1071TR-ND	240.25	S1210-562K
5.6	7.9	40	399	DN7928CT-ND◆	1.30	1.24	.81	DN7928TR-ND◆	240.25	S1210R-562K
6.8	7.9	40	372	DN7930CT-ND◆	1.30	1.24	.81	DN7930TR-ND◆	240.25	S1210R-682K
8.2	7.9	40	349	DN1073CT-ND	1.30	1.24	.81	DN1073TR-ND	240.25	S1210-822K
10	2.5	40	330	DN7905CT-ND◆	1.30	1.24	.81	DN7905TR-ND◆	240.25	S1210R-103K
15	2.5	40	288	DN7911CT-ND◆	1.30	1.24	.81	DN7911TR-ND◆	240.25	S1210R-153K
22	2.5	40	262	DN7915CT-ND◆	1.30	1.24	.81	DN7915TR-ND◆	240.25	S1210R-223K
27	2.5	40	228	DN7917CT-ND◆	1.30	1.24	.81	DN7917TR-ND◆	240.25	S1210R-273K
33	2.5	40	215	DN7920CT-ND◆	1.30	1.24	.81	DN7920TR-ND◆	240.25	S1210R-333K
39	2.5	40	204	DN1081CT-ND	1.30	1.24	.81	DN1081TR-ND	240.25	S1210-393K
39	2.5	40	204	DN7923CT-ND◆	1.30	1.24	.81	DN7923TR-ND◆	240.25	S1210R-393K
47	2.5	40	194	DN7926CT-ND◆	1.30	1.24	.81	DN7926TR-ND◆	240.25	S1210R-473K
100	2.5	40	144	DN7906CT-ND◆	1.30	1.24	.81	DN7906TR-ND◆	240.25	S1210R-104K

S1210RKIT-ND◆ (S1210RKIT) **Series S1210 Inductor Kit**
5 each of 37 values (0.10µH to 100.0µH), 185 total pieces..**$236.25**

◆ ***RoHS Compliant***

Series 1812 Unshielded Surface Mount Inductors

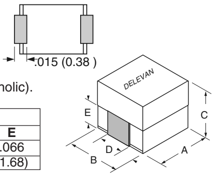

Operating Temperature Range: -67°F ~ 257°F (-55°C ~ 125°C)
Max. Power Dissipation @ 90°C: .278W (Iron and Ferrite), .210W (Phenolic).

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E
.166 ~ .190	.118 ~ .134	.118 ~ .134	.054 ~ .078	.066
(4.22 ~ 4.83)	(3.00 ~ 3.40)	(3.00 ~ 3.40)	(1.37 ~ 1.98)	(1.68)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series 1812 Iron Core, ±10%										
.12	25	30	818	DN12121CT-ND	.84	.80	.52	DN12121TR-ND	155.00	1812-121K
.18	25	30	757	DN12181CT-ND	.84	.80	.52	DN12181TR-ND	155.00	1812-181K
.22	25	30	708	DN42123CT-ND◆	.84	.80	.52	DN42123TR-ND◆	155.00	1812R-221K
.27	25	30	668	DN12271CT-ND	.84	.80	.52	DN12271TR-ND	155.00	1812-271K
.56	25	30	409	DN12561CT-ND	.84	.80	.52	DN12561TR-ND	155.00	1812-561K
.68	25	30	379	DN12681CT-ND	.84	.80	.52	DN12681TR-ND	155.00	1812-681K
Series 1812 Ferrite Core — J Tolerance, ±5%										
1.0	7.9	50	634	DN42111JCT-ND◆	1.22	1.16	.76	DN42111JTR-ND◆	224.75	1812R-102J
1.2	7.9	50	604	DN42115JCT-ND◆	1.22	1.16	.76	DN42115JTR-ND◆	224.75	1812R-122J
1.5	7.9	50	578	DN42117JCT-ND◆	1.22	1.16	.76	DN42117JTR-ND◆	224.75	1812R-152J
1.8	7.9	50	556	DN12182JCT-ND	1.22	1.16	.76	—	—	1812-182J
1.8	7.9	50	556	DN42120JCT-ND◆	1.22	1.16	.76	DN42120JTR-ND◆	224.75	1812R-182J
2.2	7.9	50	535	DN12222JCT-ND	1.22	1.16	.76	DN12222JTR-ND	224.75	1812-222J
2.2	7.9	50	535	DN42124JCT-ND◆	1.22	1.16	.76	DN42124JTR-ND◆	224.75	1812R-222J
2.7	7.9	50	517	DN42127JCT-ND◆	1.22	1.16	.76	DN42127JTR-ND◆	224.75	1812R-272J
3.3	7.9	50	501	DN42130JCT-ND◆	1.22	1.16	.76	DN42130JTR-ND◆	224.75	1812R-332J
3.9	7.9	50	472	DN12392JCT-ND	1.22	1.16	.76	DN12392JTR-ND	224.75	1812-392J
3.9	7.9	50	472	DN42133JCT-ND◆	1.22	1.16	.76	DN42133JTR-ND◆	224.75	1812R-392J
4.7	7.9	50	448	DN42135JCT-ND◆	1.22	1.16	.76	DN42135JTR-ND◆	224.75	1812R-472J
5.6	7.9	50	427	DN42138JCT-ND◆	1.22	1.16	.76	DN42138JTR-ND◆	224.75	1812R-562J
8.2	7.9	50	375	DN42141JCT-ND◆	1.22	1.16	.76	DN42141JTR-ND◆	224.75	1812R-822J
10	7.9	50	354	DN42112JCT-ND◆	1.22	1.16	.76	DN42112JTR-ND◆	224.75	1812R-103J
12	2.5	50	317	DN42116JCT-ND◆	1.22	1.16	.76	DN42116JTR-ND◆	224.75	1812R-123J
15	2.5	50	283	DN12153JCT-ND	1.22	1.16	.76	DN12153JTR-ND	224.75	1812-153J
15	2.5	50	283	DN42118JCT-ND◆	1.22	1.16	.76	DN42118JTR-ND◆	224.75	1812R-153J
18	2.5	50	268	DN12183JCT-ND	1.22	1.16	.76	DN12183JTR-ND	224.75	1812-183J
18	2.5	50	268	DN42121JCT-ND◆	1.22	1.16	.76	DN42121JTR-ND◆	224.75	1812R-183J
22	2.5	50	250	DN12223JCT-ND	1.22	1.16	.76	—	—	1812-223J
22	2.5	50	250	DN42125JCT-ND◆	1.22	1.16	.76	DN42125JTR-ND◆	224.75	1812R-223J
27	2.5	50	236	DN42128JCT-ND◆	1.22	1.16	.76	DN42128JTR-ND◆	224.75	1812R-273J
33	2.5	50	224	DN42131JCT-ND◆	1.22	1.16	.76	DN42131JTR-ND◆	224.75	1812R-333J
39	2.5	50	211	DN12393JCT-ND	1.22	1.16	.76	DN12393JTR-ND	224.75	1812-393J
39	2.5	50	211	DN42134JCT-ND◆	1.22	1.16	.76	DN42134JTR-ND◆	224.75	1812R-393J
47	2.5	50	200	DN42136JCT-ND◆	1.22	1.16	.76	DN42136JTR-ND◆	224.75	1812R-473J
56	2.5	50	191	DN42139JCT-ND◆	1.22	1.16	.76	DN42139JTR-ND◆	224.75	1812R-563J
82	2.5	50	169	DN12823JCT-ND	1.22	1.16	.76	DN12823JTR-ND	224.75	1812-823J
100	2.5	50	158	DN42113JCT-ND◆	1.22	1.16	.76	DN42113JTR-ND◆	224.75	1812R-104J
120	0.79	40	158	DN12124JCT-ND	1.22	1.16	.76	—	—	1812-124J
150	0.79	40	149	DN12154JCT-ND	1.22	1.16	.76	DN12154JTR-ND	224.75	1812-154J
150	0.79	40	149	DN42119JCT-ND◆	1.22	1.16	.76	DN42119JTR-ND◆	224.75	1812R-154J
180	0.79	40	145	DN42122JCT-ND◆	1.22	1.16	.76	DN42122JTR-ND◆	224.75	1812R-184J
220	0.79	40	142	DN42126JCT-ND◆	1.22	1.16	.76	DN42126JTR-ND◆	224.75	1812R-224J
270	0.79	40	129	DN42129JCT-ND◆	1.22	1.16	.76	DN42129JTR-ND◆	224.75	1812R-274J
330	0.79	40	120	DN42132JCT-ND◆	1.22	1.16	.76	DN42132JTR-ND◆	224.75	1812R-334J
470	0.79	40	88	DN42137JCT-ND◆	1.22	1.16	.76	DN42137JTR-ND◆	224.75	1812R-474J
560	0.79	30	82	DN42140JCT-ND◆	1.22	1.16	.76	DN42140JTR-ND◆	224.75	1812R-564J
680	0.79	30	82	DN12684JCT-ND	1.22	1.16	.76	DN12684JTR-ND	224.75	1812-684J
820	0.79	30	67	DN12824JCT-ND	1.22	1.16	.76	DN12824JTR-ND	224.75	1812-824J
820	0.79	30	67	DN42142JCT-ND◆	1.22	1.16	.76	DN42142JTR-ND◆	224.75	1812R-824J
1,000	0.79	30	55	DN42114JCT-ND◆	1.22	1.16	.76	DN42114JTR-ND◆	224.75	1812R-105J

1812RKIT-ND◆ (1812RKIT) **Series 1812 Inductor Kit**
5 each of 61 values (0.010µH to 1000.0µH), 305 total pieces..**$338.10**

◆ ***RoHS Compliant***

Series S1812 Shielded Surface Mount Inductors

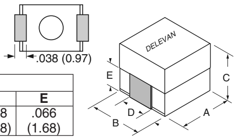

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E
.166 ~ .190 (4.22 ~ 4.83)	.118 ~ .134 (3.00 ~ 3.40)	.118 ~ .134 (3.00 ~ 3.40)	.054 ~ .078 (1.37 ~ 1.98)	.066 (1.68)

Operating Temperature Range: -55°C ~ 125°C **Maximum Power Dissipation @ 90°C:** .278W

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max.(mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series S1812 Iron Core, ±20%										
.12	25	50	1412	DN1101CT-ND	1.51	1.44	.94	DN1101TR-ND	519.25	S1812-121M
.15	25	50	1347	DN1102CT-ND	1.51	1.44	.94	DN1102TR-ND	519.25	S1812-151M
.18	25	50	1290	DN1103CT-ND	1.51	1.44	.94	DN1103TR-ND	519.25	S1812-181M
.47	25	40	802	DN1108CT-ND	1.51	1.44	.94	—	—	S1812-471M
.56	25	40	735	DN1109CT-ND	1.51	1.44	.94	DN1109TR-ND	519.25	S1812-561M
.82	25	40	614	DN1111CT-ND	1.51	1.44	.94	DN1111TR-ND	519.25	S1812-821M
Series S1812 Ferrite Core, ±10%										
1.0	7.9	40	755	DN7932CT-ND◆	1.76	1.68	1.10	DN7932TR-ND◆	325.50	S1812R-102K
1.2	7.9	40	725	DN1113CT-ND	1.76	1.68	1.10	—	—	S1812-122K
1.5	7.9	40	706	DN1114CT-ND	1.76	1.68	1.10	—	—	S1812-152K
1.5	7.9	40	706	DN7937CT-ND◆	1.76	1.68	1.10	DN7937TR-ND◆	325.50	S1812R-152K
1.8	7.9	40	681	DN1115CT-ND	1.76	1.68	1.10	DN1115TR-ND	325.50	S1812-182K

◆ ***RoHS Compliant***

(Continued)

Series S1812 Shielded Surface Mount Inductors *(Cont.)*

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max.(mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
2.2	7.9	40	658	DN7940CT-ND◆	1.76	1.68	1.10	DN7940TR-ND◆	325.50	S1812R-222K
3.3	7.9	40	534	DN7943CT-ND◆	1.76	1.68	1.10	DN7943TR-ND◆	325.50	S1812R-332K
3.9	7.9	40	487	DN1119CT-ND	1.76	1.68	1.10	DN1119TR-ND	325.50	S1812-392K
3.9	7.9	40	487	DN7946CT-ND◆	1.76	1.68	1.10	DN7946TR-ND◆	325.50	S1812R-392K
4.7	7.9	40	471	DN1120CT-ND	1.76	1.68	1.10	DN1120TR-ND	325.50	S1812-472K
4.7	7.9	40	471	DN7947CT-ND◆	1.76	1.68	1.10	DN7947TR-ND◆	325.50	S1812R-472K
5.6	7.9	40	447	DN7950CT-ND◆	1.76	1.68	1.10	DN7950TR-ND◆	325.50	S1812R-562K
6.8	7.9	40	408	DN7953CT-ND◆	1.76	1.68	1.10	DN7953TR-ND◆	325.50	S1812R-682K
8.2	7.9	40	372	DN7956CT-ND◆	1.76	1.68	1.10	DN7956TR-ND◆	325.50	S1812R-822K
10	2.5	50	333	DN7933CT-ND◆	1.76	1.68	1.10	DN7933TR-ND◆	325.50	S1812R-103K
15	2.5	50	301	DN1126CT-ND	1.76	1.68	1.10	DN1126TR-ND	325.50	S1812-153K
15	2.5	50	301	DN7938CT-ND◆	1.76	1.68	1.10	DN7938TR-ND◆	325.50	S1812R-153K
22	2.5	50	277	DN7941CT-ND◆	1.76	1.68	1.10	DN7941TR-ND◆	325.50	S1812R-223K
33	2.5	50	258	DN7944CT-ND◆	1.76	1.68	1.10	DN7944TR-ND◆	325.50	S1812R-333K
47	2.5	50	242	DN7948CT-ND◆	1.76	1.68	1.10	DN7948TR-ND◆	325.50	S1812R-473K
56	2.5	50	235	DN7951CT-ND◆	1.76	1.68	1.10	DN7951TR-ND◆	325.50	S1812R-563K
68	2.5	50	215	DN1134CT-ND	1.76	1.68	1.10	DN1134TR-ND	325.50	S1812-683K
68	2.5	50	215	DN7954CT-ND◆	1.76	1.68	1.10	DN7954TR-ND◆	325.50	S1812R-683K
82	2.5	50	196	DN1135CT-ND	1.76	1.68	1.10	—	—	S1812-823K
100	.79	40	169	DN7934CT-ND◆	1.76	1.68	1.10	DN7934TR-ND◆	325.50	S1812R-104K
120	.79	40	163	DN1137CT-ND	1.76	1.68	1.10	DN1137TR-ND	325.50	S1812-124K
120	.79	40	163	DN7936CT-ND◆	1.76	1.68	1.10	DN7936TR-ND◆	325.50	S1812R-124K
180	.79	40	153	DN1139CT-ND	1.76	1.68	1.10	DN1139TR-ND	325.50	S1812-184K
180	.79	40	153	DN7939CT-ND◆	1.76	1.68	1.10	DN7939TR-ND◆	325.50	S1812R-184K
220	.79	40	149	DN7942CT-ND◆	1.76	1.68	1.10	DN7942TR-ND◆	325.50	S1812R-224K
330	.79	40	129	DN7945CT-ND◆	1.76	1.68	1.10	DN7945TR-ND◆	325.50	S1812R-334K
390	.79	40	105	DN1143CT-ND	1.76	1.68	1.10	DN1143TR-ND	325.50	S1812-394K
470	.79	40	91	DN1144CT-ND	1.76	1.68	1.10	DN1144TR-ND	325.50	S1812-474K
470	.79	40	91	DN7949CT-ND◆	1.76	1.68	1.10	DN7949TR-ND◆	325.50	S1812R-474K
560	.79	40	84	DN7952CT-ND◆	1.76	1.68	1.10	DN7952TR-ND◆	325.50	S1812R-564K
680	.79	40	79	DN1146CT-ND	1.76	1.68	1.10	DN1146TR-ND	325.50	S1812-684K
680	.79	40	79	DN7955CT-ND◆	1.76	1.68	1.10	DN7955TR-ND◆	325.50	S1812R-684K
1,000	.25	.40	60	DN7935CT-ND◆	1.76	1.68	1.10	DN7935TR-ND◆	325.50	S1812R-105K

S1812RKIT-ND◆ (S1812RKIT) **Series S1812 Inductor Kit**
5 each of 49 values (0.10µH to 1000.0µH), 245 total pieces **$330.40**

◆ ***RoHS Compliant***

Series P1812 Surface Mount Power Inductors

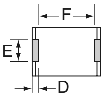

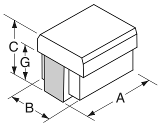

Minimum to Maximum Dimensions – Inch (mm)			
A (over terminals)	**B**	**C (over terminals)**	**D (Min.)**
.166 ~ .190 (4.22 ~ 4.83)	.118 ~ .134 (3.00 ~ 3.40)	.118 ~ .134 (3.00 ~ 3.40)	.015 (.38)

E	F (Ref. only)	G (Ref. only)
.054 ~ .078 (1.37-1.98)	.118 (3.00)	.066 (1.68)

Operating Temperature Range: -55°C ~ 125°C **Maximum Power Dissipation @ 90°C:** .278W.

Induct. (µH) ±10% @ 1KHz	DC Resist. Max. (Ohms)	Current Rating (mA)	Incre-mental Current Rating (mA DC)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
1.0	0.113	1050	2400	DN7868CT-ND◆	1.26	1.20	.78	DN7868TR-ND◆	232.50	P1812R-102K
4.7	0.401	650	1131	DN3308CT-ND	1.26	1.20	.78	—	—	P1812-472K
4.7	0.401	650	1131	DN7875CT-ND◆	1.26	1.20	.78	DN7875TR-ND◆	232.50	P1812R-472K
5.6	0.437	650	1060	DN7877CT-ND◆	1.26	1.20	.78	DN7877TR-ND◆	232.50	P1812R-562K
6.8	0.472	600	990	DN3310CT-ND	1.26	1.20	.78	—	—	P1812-682K
6.8	0.472	600	990	DN7878CT-ND◆	1.26	1.20	.78	DN7878TR-ND◆	232.50	P1812R-682K
10	0.608	550	772	DN7869CT-ND◆	1.26	1.20	.78	DN7869TR-ND◆	232.50	P1812R-103K
15	0.780	450	693	DN7871CT-ND◆	1.26	1.20	.78	DN7871TR-ND◆	232.50	P1812R-153K
18	0.875	400	614	DN7872CT-ND◆	1.26	1.20	.78	DN7872TR-ND◆	232.50	P1812R-183K
22	1.200	370	515	DN7873CT-ND◆	1.26	1.20	.78	DN7873TR-ND◆	232.50	P1812R-223K
33	1.578	300	425	DN7874CT-ND◆	1.26	1.20	.78	DN7874TR-ND◆	232.50	P1812R-333K
47	2.064	260	366	DN7876CT-ND◆	1.26	1.20	.78	DN7876TR-ND◆	232.50	P1812R-473K
68	3.408	220	297	DN3322CT-ND	1.26	1.20	.78	DN3322TR-ND	232.50	P1812-683K
100	4.320	180	238	DN7870CT-ND◆	1.26	1.20	.78	DN7870TR-ND◆	232.50	P1812R-104K
120	6.000	160	208	DN3325CT-ND	1.26	1.20	.78	DN3325TR-ND	232.50	P1812-124K

◆ ***RoHS Compliant***

Series P1330 Surface Mount Power Inductors

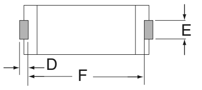

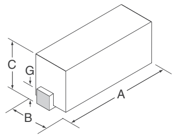

Minimum to Maximum Dimensions – Inch (mm)			
A	**B**	**C**	**D (Min.)**
.300 ~ .325 (7.62 ~ 8.26)	.105 ~ .125 (2.67 ~ 3.18)	.125 ~ .145 (3.18 ~ 3.68)	.020 (.506)

E	F (Ref. only)	G (Ref. only)
.040 ~ .060 (1.02 ~ 1.52)	.190 (4.83)	.070 (1.78)

Operating Temperature Range: -55°C ~ 125°C **Maximum Power Dissipation @ 90°C:** .210W

Induct. (µH) ±10% @ 1KHz	DC Resist. Max. (Ohms)	Current Rating (mA)	Incre-mental Current Rating (mA DC)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
1.0	0.035	2780	1526	DN3260CT-ND	1.87	1.79	1.16	DN3260TR-ND	480.50	P1330-102K
1.0	0.035	2780	1526	DN7855CT-ND◆	2.60	2.48	1.62	DN7855TR-ND◆	480.50	P1330R-102K
2.2	0.075	1690	1104	DN7860CT-ND◆	2.60	2.48	1.62	DN7860TR-ND◆	480.50	P1330R-222K
5.6	0.145	1110	612	DN7865CT-ND◆	2.60	2.48	1.62	DN7865TR-ND◆	480.50	P1330R-562K
10	0.216	946	564	DN7856CT-ND◆	2.60	2.48	1.62	DN7856TR-ND◆	480.50	P1330R-103K
22	0.384	694	348	DN3276CT-ND	1.87	1.79	1.16	DN3276TR-ND	372.00	P1330-223K
22	0.384	694	348	DN7861CT-ND◆	2.60	2.48	1.62	DN7861TR-ND◆	480.50	P1330R-223K
47	0.792	467	246	DN3280CT-ND	1.87	1.79	1.16	—	—	P1330-473K
47	0.792	467	246	DN7863CT-ND◆	2.60	2.48	1.62	DN7863TR-ND◆	480.50	P1330R-473K
68	1.020	384	174	DN7866CT-ND◆	2.60	2.48	1.62	DN7866TR-ND◆	480.50	P1330R-683K
82	1.380	362	150	DN7867CT-ND◆	2.60	2.48	1.62	DN7867TR-ND◆	480.50	P1330R-823K
100	1.680	347	132	DN3284CT-ND	2.20	2.10	1.36	DN3284TR-ND	558.00	P1330-104K
100	1.680	347	132	DN7857CT-ND◆	3.02	2.88	1.88	DN7857TR-ND◆	558.00	P1330R-104K
150	2.040	272	106	DN3286CT-ND	2.20	2.10	1.36	—	—	P1330-154K
150	2.040	272	106	DN7859CT-ND◆	3.02	2.88	1.88	DN7859TR-ND◆	558.00	P1330R-154K
330	4.800	179	57	DN3290CT-ND	2.20	2.10	1.36	—	—	P1330-334K
330	4.800	179	57	DN7862CT-ND◆	3.02	2.88	1.88	DN7862TR-ND◆	558.00	P1330R-334K
470	6.000	161	41	DN7864CT-ND◆	3.02	2.88	1.88	DN7864TR-ND◆	558.00	P1330R-474K
1,000	11.160	105	22	DN7858CT-ND◆	3.02	2.88	1.88	DN7858TR-ND◆	558.00	P1330R-105K

◆ ***RoHS Compliant***

Series 4922 High Current Surface Mount Power Inductors

Mechanical Configuration: Units are encapsulated in a surface mount package using an epoxy molded case. Leads are pre-tinned. A high resistivity ferrite core allows for high inductance with low DC resistance.
• Operating Temperature Range: -55°C ~ 125°C **• Current Rating:** 40°C Rise over 85°C Ambient **• Maximum Power Dissipation @ 85°C:** .55W **• Inductance:** Measured at 1V with no DC current

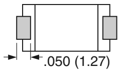

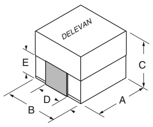

Minimum to Maximum Dimensions – Inch (mm)				
A	**B**	**C**	**D**	**E (Ref. only)**
.500 (12.70)	.240 (6.10)	.220 (5.59)	.065 (1.66)	.100 (2.54)

Induct. (µH) ±15% @ 1KHz	DC Resist. Max. (Ohms)	Rated Current (Max. Amps)	Incre-mental Current (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 800	API Delevan Part No.
Series 4922 Ferrite Core, ±15%										
0.22	0.0080	7.00	7.00	DN2193CT-ND	2.69	2.56	1.67	—	—	4922-221L
0.22	0.0080	7.00	7.00	DN7802CT-ND◆	2.90	2.76	1.80	DN7802TR-ND◆	855.60	4922R-221L
0.33	0.0090	6.50	6.50	DN2195CT-ND	2.69	2.56	1.67	DN2195TR-ND	855.60	4922-331L
0.39	0.0095	6.25	6.25	DN2196CT-ND	2.69	2.56	1.67	DN2196TR-ND	855.60	4922-391L
0.47	0.0100	6.00	6.00	DN2197CT-ND	2.69	2.56	1.67	DN2197TR-ND	855.60	4922-471L
0.47	0.0100	6.00	6.00	DN7817CT-ND◆	2.90	2.76	1.80	DN7817TR-ND◆	855.60	4922R-471L
0.56	0.0105	5.80	5.80	DN2198CT-ND	2.69	2.56	1.67	DN2198TR-ND	855.60	4922-561L
0.68	0.0110	5.70	5.70	DN2199CT-ND	2.69	2.56	1.67	DN2199TR-ND	806.00	4922-681L
0.82	0.0120	5.60	5.60	DN2200CT-ND	2.69	2.56	1.67	—	—	4922-821L
1.0	0.013	5.50	5.50	DN7788CT-ND◆	2.90	2.76	1.80	DN7788TR-ND◆	855.60	4922R-01L
1.2	0.018	4.69	4.69	DN2202CT-ND	2.69	2.56	1.67	—	—	4922-02L
1.5	0.020	4.45	4.45	DN2203CT-ND	2.69	2.56	1.67	DN2203TR-ND	855.60	4922-03L
1.8	0.021	4.34	4.34	DN2204CT-ND	2.69	2.56	1.67	DN2204TR-ND	855.60	4922-04L
2.2	0.029	3.70	3.70	DN7789CT-ND◆	2.90	2.76	1.80	DN7789TR-ND◆	855.60	4922R-05L
2.7	0.034	3.41	3.41	DN2206CT-ND	2.69	2.56	1.67	—	—	4922-06L
3.3	0.038	3.23	3.23	DN7790CT-ND◆	2.90	2.76	1.80	DN7790TR-ND◆	855.60	4922R-07L
3.9	0.042	3.07	3.07	DN7791CT-ND◆	2.90	2.76	1.80	DN7791TR-ND◆	855.60	4922R-08L
4.7	0.047	2.90	2.90	DN7792CT-ND◆	2.90	2.76	1.80	DN7792TR-ND◆	855.60	4922R-09L
5.6	0.051	2.79	2.79	DN7793CT-ND◆	2.90	2.76	1.80	DN7793TR-ND◆	855.60	4922R-10L
8.2	0.063	2.51	2.51	DN7794CT-ND◆	2.90	2.76	1.80	DN7794TR-ND◆	855.60	4922R-12L
10	0.071	2.36	2.36	DN7795CT-ND◆	2.90	2.76	1.80	DN7795TR-ND◆	855.60	4922R-13L
15	0.089	2.11	2.11	DN7797CT-ND◆	2.90	2.76	1.80	DN7797TR-ND◆	855.60	4922R-15L
22	0.152	1.61	1.61	DN7798CT-ND◆	2.90	2.76	1.80	DN7798TR-ND◆	855.60	4922R-17L
27	0.179	1.48	1.48	DN2218CT-ND	3.07	2.92	1.90	DN2218TR-ND	855.60	4922-18L
27	0.179	1.48	1.48	DN7799CT-ND◆	2.90	2.76	1.80	DN7799TR-ND◆	855.60	4922R-18L
33	0.222	1.33	1.33	DN7800CT-ND◆	2.90	2.76	1.80	DN7800TR-ND◆	855.60	4922R-19L
39	0.315	1.12	1.12	DN2220CT-ND	3.07	2.92	1.90	—	—	4922-20L
47	0.362	1.04	1.04	DN7801CT-ND◆	2.90	2.76	1.80	DN7801TR-ND◆	855.60	4922R-21L
56	0.397	1.00	1.00	DN7803CT-ND◆	2.90	2.76	1.80	DN7803TR-ND◆	855.60	4922R-22L
68	0.418	0.97	0.97	DN7804CT-ND◆	2.90	2.76	1.80	DN7804TR-ND◆	855.60	4922R-23L
82	0.604	0.81	0.81	DN2224CT-ND	3.28	3.12	2.03	DN2224TR-ND	855.60	4922-24L

◆ ***RoHS Compliant***

(Continued)

API Delevan Coils and Inductors

Series 4922 High Current Surface Mount Power Inductors *(Cont.)*

Induct. (µH) ±15% @ 1KHz	DC Resist. Max. (Ohms)	Rated Current (Max. Amps)	Incre-mental Current (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 800	API Delevan Part No.
82	0.604	0.81	0.81	DN7805CT-ND◆	2.90	2.76	1.80	DN7805TR-ND◆	855.60	4922R-24L
100	0.672	0.76	0.76	DN7806CT-ND◆	2.90	2.76	1.80	DN7806TR-ND◆	855.60	4922R-25L
120	0.735	0.73	0.73	DN2226CT-ND	3.28	3.12	2.03	—	—	4922-26L
120	0.735	0.73	0.73	DN7807CT-ND◆	2.90	2.76	1.80	DN7807TR-ND◆	855.60	4922R-26L
150	0.998	0.63	0.63	DN7808CT-ND◆	2.90	2.76	1.80	DN7808TR-ND◆	855.60	4922R-27L
180	1.37	0.53	0.53	DN2228CT-ND	3.28	3.12	2.03	DN2228TR-ND	855.60	4922-28L
180	1.37	0.53	0.53	DN7809CT-ND◆	2.90	2.76	1.80	DN7809TR-ND◆	855.60	4922R-28L
220	1.58	0.50	0.50	DN7810CT-ND◆	2.90	2.76	1.80	DN7810TR-ND◆	855.60	4922R-29L
270	1.77	0.47	0.47	DN2230CT-ND	3.28	3.12	2.03	—	—	4922-30L
330	2.51	0.39	0.39	DN2231CT-ND	3.28	3.12	2.03	DN2231TR-ND	855.60	4922-31L
330	2.51	0.39	0.39	DN7811CT-ND◆	2.90	2.76	1.80	DN7811TR-ND◆	855.60	4922R-31L
390	2.73	0.38	0.38	DN2232CT-ND	3.28	3.12	2.03	—	—	4922-32L
390	2.73	0.38	0.38	DN7812CT-ND◆	2.90	2.76	1.80	DN7812TR-ND◆	855.60	4922R-32L
470	3.25	0.35	0.35	DN2233CT-ND	3.28	3.12	2.03	—	—	4922-33L
470	3.25	0.35	0.35	DN7813CT-ND◆	2.90	2.76	1.80	DN7813TR-ND◆	855.60	4922R-33L
680	4.31	0.30	0.30	DN2235CT-ND	3.36	3.20	2.08	DN2235TR-ND	1041.60	4922-35L
680	4.31	0.30	0.30	DN7814CT-ND◆	3.53	3.36	2.19	DN7814TR-ND◆	1041.60	4922R-35L
1,000	6.90	0.24	0.24	DN2237CT-ND	3.36	3.20	2.08	—	—	4922-37L
1,000	6.90	0.24	0.24	DN7815CT-ND◆	3.53	3.36	2.19	DN7815TR-ND◆	1041.60	4922R-37L
1,200	10.00	0.20	0.20	DN7816CT-ND◆	3.53	3.36	2.19	DN7816TR-ND◆	1041.60	4922R-38L
1,500	12.50	0.178	0.178	DN2239CT-ND	3.36	3.20	2.08	—	—	4922-39L
1,800	16.00	0.157	0.157	DN2333CT-ND	3.36	3.20	2.08	DN2333TR-ND	1041.60	4922-40L
2,700	23.00	0.131	0.131	DN2335CT-ND	3.36	3.20	2.08	DN2335TR-ND	1041.60	4922-42L
3,900	33.00	0.110	0.110	DN2337CT-ND	3.36	3.20	2.08	DN2337TR-ND	1041.60	4922-44L
4,700	37.00	0.103	0.103	DN2338CT-ND	3.36	3.20	2.08	DN2338TR-ND	1041.60	4922-45L
5,600	40.00	0.100	0.100	DN2339CT-ND	3.36	3.20	2.08	DN2339TR-ND	1041.60	4922-46L
6,800	62.00	0.080	0.080	DN2340CT-ND	3.53	3.36	2.19	—	—	4922-47L
6,800	62.00	0.080	0.080	DN7818CT-ND◆	3.53	3.36	2.19	DN7818TR-ND◆	1041.60	4922R-47L
8,200	66.00	0.077	0.077	DN7819CT-ND◆	3.53	3.36	2.19	DN7819TR-ND◆	1041.60	4922R-48L
10,000	74.00	0.071	0.071	DN2342CT-ND	3.53	3.36	2.19	DN2342TR-ND	1041.60	4922-49L
10,000	74.00	0.071	0.071	DN7820CT-ND◆	3.53	3.36	2.19	DN7820TR-ND◆	1041.60	4922R-49L
12,000	93.00	0.065	0.065	DN2343CT-ND	3.53	3.36	2.19	—	—	4922-50L
22,000	160.00	0.050	0.050	DN7821CT-ND◆	3.53	3.36	2.19	DN7821TR-ND◆	1041.60	4922R-53L

◆ *RoHS Compliant*

Series 5022 Surface Mount Inductors

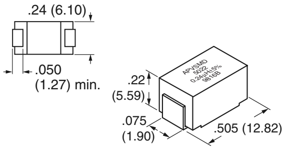

Mechanical Configuration: Units are encapsulated in a surface mount package using an epoxy molded case. **Operating Temperature Range:** -55°C ~ 125°C **Current Rating at 90°C Ambient:** 35°C Rise **Maximum Power Dissipation at 90°C**: .405W **Weight Maximum:** 1.5 grams

Induct. (µH) ± 5%	Q Min.	Test Freq. (MHz)	DC Resist. Max. (Ohms)	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 800	API Delevan Part No.
Series 5022 Phenolic Core											
0.20	50	25	0.047	2790	DN2243CT-ND	3.28	3.12	2.03	DN2243TR-ND	967.20	5022-201J
0.62	50	25	0.140	1615	DN2255CT-ND	2.52	2.40	1.56	DN2255TR-ND	967.20	5022-621J
2.0	33	7.9	0.800	675	DN2267CT-ND	2.52	2.40	1.56	DN2267TR-ND	967.20	5022-202J
3.9	33	7.9	2.300	395	DN2274CT-ND	2.52	2.40	1.56	DN2274TR-ND	967.20	5022-392J
Series 5022 Iron Core											
100	50	2.5	4.500	275	DN2308CT-ND	2.98	2.84	1.85	DN2308TR-ND	967.20	5022-104J

Series 8532 Surface Mount Power Inductors

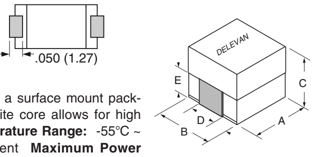

Mechanical Configuration: Units are encapsulated in a surface mount package using an epoxy molded case. High resistivity ferrite core allows for high inductance with low DC resistance. **Operating Temperature Range:** -55°C ~ 125°C **Current Rating:** 40°C Rise over 85°C Ambient **Maximum Power Dissipation at 85°C**: .50W **Inductance:** Measured at 1V with no DC current

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E (Ref. only)
.840 ~ .860 (21.34 ~ 21.84)	.310 ~ .330 (7.87 ~ 8.38)	.266 ~ .286 (6.76 ~ 7.26)	.070 ~ .110 (1.78 ~ 2.79)	.20 (5.08)

Induct. @ 1 KHz (µH)±15%	Max. DC Resist. (Ohms)	Current Rating Max. (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 480	API Delevan Part No.
Series 8532 Ferrite Core, ±15%									
1.0	0.009	6.27	DN3201CT-ND	3.61	3.44	2.24	DN3201TR-ND	751.44	8532-01LTR
1.0	0.009	6.27	DN7822CT-ND◆	4.24	4.04	2.63	DN7822TR-ND◆	751.44	8532R-01L
1.2	0.010	5.95	DN3202CT-ND	3.61	3.44	2.24	DN3202TR-ND	751.44	8532-02LTR
1.5	0.011	5.67	DN3203CT-ND	3.61	3.44	2.24	—	—	8532-03LTR
2.2	0.013	5.22	DN3205CT-ND	3.61	3.44	2.24	—	—	8532-05LTR
3.3	0.016	4.70	DN3207CT-ND	3.61	3.44	2.24	—	—	8532-07LTR
3.3	0.016	4.70	DN7823CT-ND◆	4.24	4.04	2.63	DN7823TR-ND◆	751.44	8532R-07L
3.9	0.017	4.56	DN3208CT-ND	3.61	3.44	2.24	DN3208TR-ND	751.44	8532-08LTR
4.7	0.022	4.01	DN3209CT-ND	3.61	3.44	2.24	DN3209TR-ND	751.44	8532-09LTR
4.7	0.022	4.01	DN7824CT-ND◆	4.24	4.04	2.63	DN7824TR-ND◆	751.44	8532R-09L
5.6	0.024	3.84	DN3210CT-ND	3.61	3.44	2.24	DN3210TR-ND	751.44	8532-10LTR
5.6	0.024	3.84	DN7825CT-ND◆	4.24	4.04	2.63	DN7825TR-ND◆	751.44	8532R-10L
6.8	0.026	3.69	DN3211CT-ND	3.61	3.44	2.24	DN3211TR-ND	751.44	8532-11LTR
10	0.033	3.27	DN7826CT-ND◆	4.24	4.04	2.63	DN7826TR-ND◆	751.44	8532R-13L
12	0.037	3.09	DN3214CT-ND	4.03	3.84	2.50	DN3214TR-ND	751.44	8532-14LTR
15	0.040	2.97	DN3215CT-ND	4.03	3.84	2.50	—	—	8532-15LTR
15	0.040	2.97	DN7827CT-ND◆	4.24	4.04	2.63	DN7827TR-ND◆	751.44	8532R-15L
18	0.044	2.84	DN3216CT-ND	4.03	3.84	2.50	DN3216TR-ND	751.44	8532-16LTR
18	0.044	2.84	DN7828CT-ND◆	4.24	4.04	2.63	DN7828TR-ND◆	751.44	8532R-16L
22	0.050	2.66	DN7829CT-ND◆	4.24	4.04	2.63	DN7829TR-ND◆	751.44	8532R-17L
27	0.070	2.25	DN3218CT-ND	4.03	3.84	2.50	DN3218TR-ND	751.44	8532-18LTR
47	0.104	1.84	DN7830CT-ND◆	4.24	4.04	2.63	DN7830TR-ND◆	751.44	8532R-21L
56	0.130	1.65	DN3222CT-ND	4.03	3.84	2.50	—	—	8532-22LTR
56	0.130	1.65	DN7831CT-ND◆	4.24	4.04	2.63	DN7831TR-ND◆	751.44	8532R-22L
68	0.145	1.56	DN7832CT-ND◆	4.24	4.04	2.63	DN7832TR-ND◆	751.44	8532R-23L
82	0.152	1.53	DN3224CT-ND	4.03	3.84	2.50	DN3224TR-ND	751.44	8532-24LTR
100	0.208	1.30	DN7833CT-ND◆	4.83	4.60	2.99	DN7833TR-ND◆	855.60	8532R-25L
180	0.362	0.99	DN3228CT-ND	4.24	4.04	2.63	DN3228TR-ND	855.60	8532-28LTR
180	0.362	0.99	DN7834CT-ND◆	4.83	4.60	2.99	DN7834TR-ND◆	855.60	8532R-28L
220	0.505	0.84	DN7835CT-ND◆	4.83	4.60	2.99	DN7835TR-ND◆	855.60	8532R-29L
270	0.557	0.80	DN7836CT-ND◆	4.83	4.60	2.99	DN7836TR-ND◆	855.60	8532R-30L
560	1.14	0.56	DN3234CT-ND	4.24	4.04	2.63	DN3234TR-ND	855.60	8532-34LTR
560	1.14	0.56	DN7837CT-ND◆	4.83	4.60	2.99	DN7837TR-ND◆	855.60	8532R-34L
680	1.50	0.49	DN3235CT-ND	4.24	4.04	2.63	DN3235TR-ND	855.60	8532-35LTR
680	1.50	0.49	DN7838CT-ND◆	4.83	4.60	2.99	DN7838TR-ND◆	855.60	8532R-35L
1,000	2.30	0.39	DN3237CT-ND	4.49	4.28	2.79	—	—	8532-37LTR
1,000	2.30	0.39	DN7839CT-ND◆	4.83	4.60	2.99	DN7839TR-ND◆	855.60	8532R-37L
1,200	2.55	0.37	DN3238CT-ND	4.49	4.28	2.79	DN3238TR-ND	855.60	8532-38LTR
1,500	3.00	0.34	DN3239CT-ND	4.49	4.28	2.79	—	—	8532-39LTR
1,800	4.00	0.30	DN3240CT-ND	4.49	4.28	2.79	DN3240TR-ND	855.60	8532-40LTR
2,200	4.40	0.28	DN3241CT-ND	4.49	4.28	2.79	DN3241TR-ND	855.60	8532-41LTR
2,700	5.80	0.25	DN3242CT-ND	4.49	4.28	2.79	DN3242TR-ND	855.60	8532-42LTR
3,900	8.63	0.20	DN3244CT-ND	4.49	4.28	2.79	DN3244TR-ND	855.60	8532-44LTR
5,600	11.2	0.18	DN3246CT-ND	4.49	4.28	2.79	DN3246TR-ND	855.60	8532-46LTR
6,800	15.0	0.15	DN3247CT-ND	4.49	4.28	2.79	DN3247TR-ND	855.60	8532-47LTR
8,200	20.8	0.13	DN7840CT-ND◆	4.83	4.60	2.99	DN7840TR-ND◆	855.60	8532R-48L
15,000	36.0	0.10	DN3251CT-ND	4.49	4.28	2.79	DN3251TR-ND	855.60	8532-51LTR
18,000	40.0	0.09	DN3252CT-ND	4.49	4.28	2.79	—	—	8532-52LTR

◆ *RoHS Compliant*

Series SPD42 Shielded SMD Power Chokes

RoHS COMPLIANT Pb

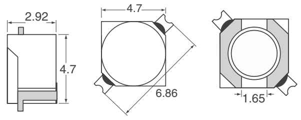

Specifications:

- Operating Temperature Range: -55°C ~ 125°C

Induc-tance (µH)	Test Freq. (MHz)	DC Resist. Max. (Ohms)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 500	API Delevan Part No.
1.2	100	.019	1.80	DN7659CT-ND	2.10	2.00	1.30	DN7659TR-ND	387.50	SPD42R-122M
2.2	100	.023	1.35	DN7660CT-ND	2.10	2.00	1.30	DN7660TR-ND	387.50	SPD42R-222M
3.3	100	.032	1.10	DN7661CT-ND	2.10	2.00	1.30	DN7661TR-ND	387.50	SPD42R-332M
4.7	100	.045	0.90	DN7662CT-ND	2.10	2.00	1.30	DN7662TR-ND	387.50	SPD42R-472M
6.8	100	.060	0.73	DN7663CT-ND	2.10	2.00	1.30	DN7663TR-ND	387.50	SPD42R-682M
10	100	.083	0.58	DN7664CT-ND	2.10	2.00	1.30	DN7664TR-ND	387.50	SPD42R-103M
12	1.0	.100	0.53	DN7665CT-ND	2.10	2.00	1.30	DN7665TR-ND	387.50	SPD42R-123M
15	1.0	.115	0.46	DN7666CT-ND	2.10	2.00	1.30	DN7666TR-ND	387.50	SPD42R-153M
18	1.0	.150	0.42	DN7667CT-ND	2.10	2.00	1.30	DN7667TR-ND	387.50	SPD42R-183M
22	1.0	.160	0.38	DN7668CT-ND	2.10	2.00	1.30	DN7668TR-ND	387.50	SPD42R-223M
27	1.0	.190	0.35	DN7669CT-ND	2.10	2.00	1.30	DN7669TR-ND	387.50	SPD42R-273M
33	1.0	.215	0.32	DN7670CT-ND	2.10	2.00	1.30	DN7670TR-ND	387.50	SPD42R-333M
39	1.0	.290	0.30	DN7671CT-ND	2.10	2.00	1.30	DN7671TR-ND	387.50	SPD42R-393M
47	1.0	.320	0.28	DN7672CT-ND	2.10	2.00	1.30	DN7672TR-ND	387.50	SPD42R-473M
56	1.0	.365	0.25	DN7673CT-ND	2.10	2.00	1.30	DN7673TR-ND	387.50	SPD42R-563M
68	1.0	.480	0.22	DN7674CT-ND	2.10	2.00	1.30	DN7674TR-ND	387.50	SPD42R-683M
82	1.0	.520	0.20	DN7675CT-ND	2.10	2.00	1.30	DN7675TR-ND	387.50	SPD42R-823M
100	1.0	.700	0.12	DN7676CT-ND	2.10	2.00	1.30	DN7676TR-ND	387.50	SPD42R-104M

Series SPD62 Shielded Surface Mount Inductors

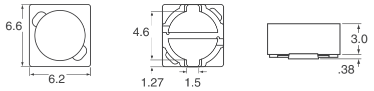

This low cost power choke is suitable for PDA, palmtop and other power management applications requiring small size, high current capacity and a shielded winding to reduce EMI/RFI. The flat top construction lends itself to auto-insertion. **Operating Temperature Range:** -55°C ~ 125°C

Induct. (µH) ± 20%	Test Freq. (KHz)	DC Resist. Max. (Ohms)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,500	API Delevan Part No.
1.2	100	0.040	3.50	DN7959CT-ND◆	1.93	1.84	1.20	DN7959TR-ND◆	644.00/M	SPD62R-122M
4.7	100	0.070	2.00	DN7960CT-ND◆	1.93	1.84	1.20	DN7960TR-ND◆	644.00/M	SPD62R-472M
10	100	0.12	1.40	DN7961CT-ND◆	1.93	1.84	1.20	DN7961TR-ND◆	644.00/M	SPD62R-103M
18	1	0.19	1.10	DN7508CT-ND	1.81	1.72	1.12	—	—	SPD62-183M
22	1	0.20	1.00	DN7509CT-ND	1.81	1.72	1.12	DN7509TR-ND	2086.00/M	SPD62-223M
22	1	0.20	1.00	DN7962CT-ND◆	1.93	1.84	1.20	DN7962TR-ND◆	644.00/M	SPD62R-223M
33	1	0.28	0.82	DN7963CT-ND◆	1.93	1.84	1.20	DN7963TR-ND◆	644.00/M	SPD62R-333M
39	1	0.40	0.78	DN7512CT-ND	1.81	1.72	1.12	—	—	SPD62-393M
47	1	0.44	0.70	DN7964CT-ND◆	1.93	1.84	1.20	DN7964TR-ND◆	644.00/M	SPD62R-473M
56	1	0.51	0.68	DN7965CT-ND◆	1.93	1.84	1.20	DN7965TR-ND◆	644.00/M	SPD62R-563M
68	1	0.64	0.56	DN7515CT-ND	1.81	1.72	1.12	DN7515TR-ND	2086.00/M	SPD62-683M

◆ *RoHS Compliant*

(Continued)

Series SPD62 Shielded Surface Mount Inductors *(Cont.)*

Induct. (μH) ± 20%	Test Freq. (KHz)	DC Resist. Max. (Ohms)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,500	API Delevan Part No.
68	1	0.64	0.56	DN7966CT-ND◆	1.93	1.84	1.20	DN7966TR-ND◆	644.00/M	SPD62R-683M
120	1	0.95	0.39	DN7518CT-ND	1.81	1.72	1.12	—	—	SPD62-124M
150	1	1.07	0.37	DN7519CT-ND	1.81	1.72	1.12	DN7519TR-ND	2086.00/M	SPD62-154M
270	1	2.77	0.29	DN7522CT-ND	1.81	1.72	1.12	—	—	SPD62-274M

◆ *RoHS Compliant*

Series HCT High Current Toroidal Inductors

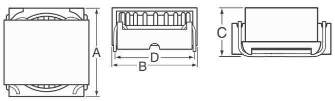

Features:

- Surface mount
- Low profile, self-leaded

Specifications:

- Frequency Range: 1KHz ~ 1MHz
- Operating Temperature Range: -30°C ~ 130°C
- Materials: Meets UL94V-0
- Max. Power Dissipation @ 25°C: HCTR-37x: 0.9W; HCTR-44x: 1.0W; HCTR-50x: 1.1W; HCTR-68x: 1.2W
- Test Frequency: 100KHz

Series	Dimensions (mm) A	B	C	D
HCTR-37x	0.615	0.6	0.37	0.5
HCTR-44x	0.665	0.665	0.4	0.56
HCTR-50x	0.74	0.74	0.4	0.63
HCTR-68x	0.945	0.94	0.4	0.82

Inductance (μH) ±25%	Max. DC Resistance (Ω)	DC Amps to Produce Max. Temp. Rise from 25°C Ambient 25°C	55°C	Q Typ.	Typ. SRF (MHz)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
HCTR-37x										
1.25	.0025	12.3	17.4	32	260	DN4791-ND	5.64	4.83	3.22	HCTR-371
2.1	.004	9.87	13.9	27	160	DN4792-ND	5.64	4.83	3.22	HCTR-372
2.8	.0063	7.82	11.0	27	110	DN4793-ND	5.64	4.83	3.22	HCTR-373
4.2	.0079	6.97	9.83	24	100	DN4794-ND	5.64	4.83	3.22	HCTR-374
HCTR-44x										
2.8	.0036	11.0	15.6	33	110	DN4795-ND	5.64	4.83	3.22	HCTR-441
4.2	.0054	9.14	12.8	29	85	DN4796-ND	5.64	4.83	3.22	HCTR-442
5.7	.0075	7.78	10.9	29	65	DN4797-ND	5.64	4.83	3.22	HCTR-443
9.0	.0114	6.28	8.87	26	55	DN4798-ND	5.64	4.83	3.22	HCTR-444
HCTR-50x										
6.5	.0066	8.56	12.0	25	55	DN4799-ND	5.64	4.83	3.22	HCTR-501
8.4	.0083	7.66	10.8	23	45	DN4800-ND	5.64	4.83	3.22	HCTR-502
12.5	.0114	6.56	9.25	23	35	DN4801-ND	5.64	4.83	3.22	HCTR-503
17.0	.017	5.37	7.58	22	29	DN4802-ND	5.64	4.83	3.22	HCTR-504
HCTR-60x										
10.5	.0062	9.39	13.2	35	30	DN4803-ND	5.64	4.83	3.22	HCTR-681
17.6	.0123	6.6	9.32	35	24	DN4804-ND	5.64	4.83	3.22	HCTR-682
22.0	.0175	5.58	7.87	30	21	DN4805-ND	5.64	4.83	3.22	HCTR-683
29.0	.025	4.66	6.57	30	16	DN4806-ND	5.64	4.83	3.22	HCTR-684

Series SPD73/SPD74 Shielded SMD Power Inductors

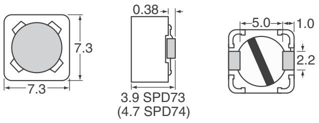

Specifications:

Operating Temperature Range: -55°C ~ 125°C

Inductance (μH)	Test Freq. (MHz)	DC Resist. Max. (Ohms)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	API Delevan Part No.
SPD73 Series										
10	100	.067	2.50	DN7592CT-ND	2.73	2.60	1.69	DN7592TR-ND	910.00	SPD73R-103M
15	1	.091	2.00	DN7593CT-ND	2.73	2.60	1.69	DN7593TR-ND	910.00	SPD73R-153M
18	1	.14	1.80	DN7594CT-ND	2.73	2.60	1.69	DN7594TR-ND	910.00	SPD73R-183M
22	1	.19	1.75	DN7595CT-ND	2.73	2.60	1.69	DN7595TR-ND	910.00	SPD73R-223M
47	1	.36	1.16	DN7596CT-ND	2.73	2.60	1.69	DN7596TR-ND	910.00	SPD73R-473M
56	1	.47	1.10	DN7597CT-ND	2.73	2.60	1.69	DN7597TR-ND	910.00	SPD73R-563M
68	1	.52	1.05	DN7598CT-ND	2.73	2.60	1.69	DN7598TR-ND	910.00	SPD73R-683M
100	1	.79	.85	DN7599CT-ND	2.73	2.60	1.69	DN7599TR-ND	910.00	SPD73R-104M
150	1	.89	.70	DN7600CT-ND	2.73	2.60	1.69	DN7600TR-ND	910.00	SPD73R-154M
180	1	1.45	.62	DN7601CT-ND	2.73	2.60	1.69	DN7601TR-ND	910.00	SPD73R-184M
220	1	1.65	.57	DN7602CT-ND	2.73	2.60	1.69	DN7602TR-ND	910.00	SPD73R-224M
330	1	2.62	.50	DN7603CT-ND	2.73	2.60	1.69	DN7603TR-ND	910.00	SPD73R-334M
470	1	4.18	.38	DN7604CT-ND	2.73	2.60	1.69	DN7604TR-ND	910.00	SPD73R-474M
560	1	4.67	.35	DN7605CT-ND	2.73	2.60	1.69	DN7605TR-ND	910.00	SPD73R-564M
SPD74 Series										
10	100	.049	2.50	DN7606CT-ND	2.73	2.60	1.69	DN7606TR-ND	910.00	SPD74R-103M
15	1	.081	2.30	DN7607CT-ND	2.73	2.60	1.69	DN7607TR-ND	910.00	SPD74R-153M
18	1	.091	2.15	DN7608CT-ND	2.73	2.60	1.69	DN7608TR-ND	910.00	SPD74R-183M
22	1	.11	2.00	DN7609CT-ND	2.73	2.60	1.69	DN7609TR-ND	910.00	SPD74R-223M
47	1	.26	1.30	DN7610CT-ND	2.73	2.60	1.69	DN7610TR-ND	910.00	SPD74R-473M
56	1	.35	1.20	DN7611CT-ND	2.73	2.60	1.69	DN7611TR-ND	910.00	SPD74R-563M
68	1	.38	1.10	DN7612CT-ND	2.73	2.60	1.69	DN7612TR-ND	910.00	SPD74R-683M
100	1	.61	.86	DN7613CT-ND	2.73	2.60	1.69	DN7613TR-ND	910.00	SPD74R-104M
150	1	.88	.70	DN7614CT-ND	2.73	2.60	1.69	DN7614TR-ND	910.00	SPD74R-154M
180	1	.98	.68	DN7615CT-ND	2.73	2.60	1.69	DN7615TR-ND	910.00	SPD74R-184M
220	1	1.17	.60	DN7616CT-ND	2.73	2.60	1.69	DN7616TR-ND	910.00	SPD74R-224M
330	1	1.86	.50	DN7617CT-ND	2.73	2.60	1.69	DN7617TR-ND	910.00	SPD74R-334M
470	1	3.01	.40	DN7618CT-ND	2.73	2.60	1.69	DN7618TR-ND	910.00	SPD74R-474M
560	1	3.62	.37	DN7619CT-ND	2.73	2.60	1.69	DN7619TR-ND	910.00	SPD74R-564M
1,000	1	6.0	.26	DN7620CT-ND	2.73	2.60	1.69	DN7620TR-ND	910.00	SPD74R-105M

Series SPD125/SPD127 Shielded SMD Power Inductors

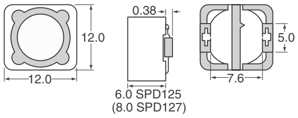

Specifications:

Operating Temperature Range: -55°C ~ 125°C

Inductance (μH)	Test Freq. (MHz)	DC Resist. Max. (Ohms)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 500	API Delevan Part No.
SPD125 Series										
10	100	.055	4.00	DN7621CT-ND	3.02	2.88	1.88	DN7621TR-ND	558.00	SPD125R-103M
15	1	.065	3.30	DN7622CT-ND	3.02	2.88	1.88	DN7622TR-ND	558.00	SPD125R-153M
18	1	.070	3.00	DN7623CT-ND	3.02	2.88	1.88	DN7623TR-ND	558.00	SPD125R-183M
22	1	.075	2.80	DN7624CT-ND	3.02	2.88	1.88	DN7624TR-ND	558.00	SPD125R-223M
33	1	.095	2.10	DN7625CT-ND	3.02	2.88	1.88	DN7625TR-ND	558.00	SPD125R-333M
39	1	.105	2.00	DN7626CT-ND	3.02	2.88	1.88	DN7626TR-ND	558.00	SPD125R-393M
47	1	.115	1.80	DN7627CT-ND	3.02	2.88	1.88	DN7627TR-ND	558.00	SPD125R-473M
56	1	.135	1.60	DN7628CT-ND	3.02	2.88	1.88	DN7628TR-ND	558.00	SPD125R-563M
68	1	.170	1.50	DN7629CT-ND	3.02	2.88	1.88	DN7629TR-ND	558.00	SPD125R-683M
82	1	.190	1.40	DN7630CT-ND	3.02	2.88	1.88	DN7630TR-ND	558.00	SPD125R-823M
100	1	.210	1.30	DN7631CT-ND	3.02	2.88	1.88	DN7631TR-ND	558.00	SPD125R-104M
120	1	.250	1.10	DN7632CT-ND	3.02	2.88	1.88	DN7632TR-ND	558.00	SPD125R-124M
150	1	.300	1.00	DN7633CT-ND	3.02	2.88	1.88	DN7633TR-ND	558.00	SPD125R-154M
180	1	.350	.90	DN7634CT-ND	3.02	2.88	1.88	DN7634TR-ND	558.00	SPD125R-184M
220	1	.420	.80	DN7635CT-ND	3.02	2.88	1.88	DN7635TR-ND	558.00	SPD125R-224M
330	1	.600	.70	DN7636CT-ND	3.02	2.88	1.88	DN7636TR-ND	558.00	SPD125R-334M
820	1	1.65	.45	DN7637CT-ND	3.02	2.88	1.88	DN7637TR-ND	558.00	SPD125R-824M
1,000	1	2.00	.40	DN7638CT-ND	3.02	2.88	1.88	DN7638TR-ND	558.00	SPD125R-105M
SPD127 Series										
4.7	100	.022	6.80	DN7639CT-ND	3.23	3.08	2.01	DN7639TR-ND	596.75	SPD127R-472M
10	100	.040	5.40	DN7640CT-ND	3.23	3.08	2.01	DN7640TR-ND	596.75	SPD127R-103M
15	1	.048	4.50	DN7642CT-ND	3.23	3.08	2.01	DN7642TR-ND	596.75	SPD127R-153M
18	1	.052	3.90	DN7643CT-ND	3.23	3.08	2.01	DN7643TR-ND	596.75	SPD127R-183M
22	1	.055	3.60	DN7644CT-ND	3.23	3.08	2.01	DN7644TR-ND	596.75	SPD127R-223M
27	1	.060	3.40	DN7645CT-ND	3.23	3.08	2.01	DN7645TR-ND	596.75	SPD127R-273M
33	1	.065	3.00	DN7646CT-ND	3.23	3.08	2.01	DN7646TR-ND	596.75	SPD127R-333M
39	1	.080	2.80	DN7647CT-ND	3.23	3.08	2.01	DN7647TR-ND	596.75	SPD127R-393M
47	1	.100	2.50	DN7648CT-ND	3.23	3.08	2.01	DN7648TR-ND	596.75	SPD127R-473M
56	1	.120	2.30	DN7649CT-ND	3.23	3.08	2.01	DN7649TR-ND	596.75	SPD127R-563M
68	1	.140	2.10	DN7650CT-ND	3.23	3.08	2.01	DN7650TR-ND	596.75	SPD127R-683M
82	1	.170	1.90	DN7651CT-ND	3.23	3.08	2.01	DN7651TR-ND	596.75	SPD127R-823M
100	1	.220	1.70	DN7652CT-ND	3.23	3.08	2.01	DN7652TR-ND	596.75	SPD127R-104M
120	1	.250	1.60	DN7653CT-ND	3.23	3.08	2.01	DN7653TR-ND	596.75	SPD127R-124M
150	1	.320	1.40	DN7654CT-ND	3.23	3.08	2.01	DN7654TR-ND	596.75	SPD127R-154M
220	1	.390	1.20	DN7655CT-ND	3.23	3.08	2.01	DN7655TR-ND	596.75	SPD127R-224M
330	1	.620	1.00	DN7656CT-ND	3.23	3.08	2.01	DN7656TR-ND	596.75	SPD127R-334M
470	1	.980	.80	DN7657CT-ND	3.23	3.08	2.01	DN7657TR-ND	596.75	SPD127R-474M
1,000	1	1.54	.62	DN7658CT-ND	3.23	3.08	2.01	DN7658TR-ND	596.75	SPD127R-105M

Series SDS130 Shielded SMD Power Chokes

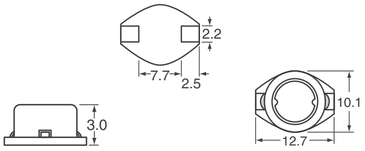

Specifications:

- Operating Temperature Range: -40°C ~ 85°C
- Core Material: Ferrite

Inductance (μH)	Test Freq. (MHz)	DC Resist. Max. (Ohms)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	API Delevan Part No.
2.2	100	.045	3.5	DN7524CT-ND	1.13	1.08	.71	DN7524TR-ND	378.00	SDS130R-222N
3.0	100	.062	3.0	DN7525CT-ND	1.13	1.08	.71	DN7525TR-ND	378.00	SDS130R-302N
3.9	100	.070	2.8	DN7526CT-ND	1.13	1.08	.71	DN7526TR-ND	378.00	SDS130R-392N
4.7	100	.078	2.5	DN7527CT-ND	1.13	1.08	.71	DN7527TR-ND	378.00	SDS130R-472N
6.8	100	.100	2.2	DN7528CT-ND	1.13	1.08	.71	DN7528TR-ND	378.00	SDS130R-682N
10	1	.145	2.0	DN7529CT-ND	1.13	1.08	.71	DN7529TR-ND	378.00	SDS130R-103M
22	1	.30	1.3	DN7530CT-ND	1.13	1.08	.71	DN7530TR-ND	378.00	SDS130R-223M
33	1	.45	1.1	DN7531CT-ND	1.13	1.08	.71	DN7531TR-ND	378.00	SDS130R-333M
47	1	.65	.80	DN7532CT-ND	1.13	1.08	.71	DN7532TR-ND	378.00	SDS130R-473M
68	1	.80	.70	DN7533CT-ND	1.13	1.08	.71	DN7533TR-ND	378.00	SDS130R-683M
100	1	1.40	.60	DN7534CT-ND	1.13	1.08	.71	DN7534TR-ND	378.00	SDS130R-104M
150	1	1.80	.50	DN7535CT-ND	1.13	1.08	.71	DN7535TR-ND	378.00	SDS130R-154M
330	1	3.60	.30	DN7536CT-ND	1.13	1.08	.71	DN7536TR-ND	378.00	SDS130R-334M
470	1	5.10	.20	DN7537CT-ND	1.13	1.08	.71	DN7537TR-ND	378.00	SDS130R-474M

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Series SDS680 Shielded SMD Power Chokes

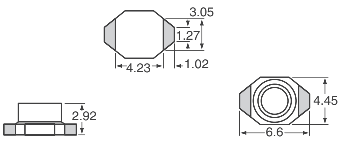

Specifications:
- Operating Temperature Range: -40°C ~ 85°C
- Core Material: Ferrite

Inductance (µH) ±20%	SRF (MHz)	DC Resist. Max. (Ohms)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 2,000	API Delevan Part No.
1.0	250	.040	3.0	DN7538CT-ND	1.18	1.12	.73	DN7538TR-ND	372.40/M	SDS680R-102M
1.5	125	.045	2.8	DN7539CT-ND	1.18	1.12	.73	DN7539TR-ND	372.40/M	SDS680R-152M
2.2	120	.050	1.8	DN7540CT-ND	1.18	1.12	.73	DN7540TR-ND	372.40/M	SDS680R-222M
3.3	120	.055	1.6	DN7541CT-ND	1.18	1.12	.73	DN7541TR-ND	372.40/M	SDS680R-332M
4.7	105	.060	1.4	DN7542CT-ND	1.18	1.12	.73	DN7542TR-ND	372.40/M	SDS680R-472M
6.8	50	.065	1.2	DN7543CT-ND	1.18	1.12	.73	DN7543TR-ND	372.40/M	SDS680R-682M
10	38	.075	1.0	DN7544CT-ND	1.18	1.12	.73	DN7544TR-ND	372.40/M	SDS680R-103M
15	33	.090	.80	DN7545CT-ND	1.18	1.12	.73	DN7545TR-ND	372.40/M	SDS680R-153M
22	25	.110	.70	DN7546CT-ND	1.18	1.12	.73	DN7546TR-ND	372.40/M	SDS680R-223M
33	20	.190	.60	DN7547CT-ND	1.18	1.12	.73	DN7547TR-ND	372.40/M	SDS680R-333M
47	20	.230	.50	DN7548CT-ND	1.18	1.12	.73	DN7548TR-ND	372.40/M	SDS680R-473M
68	15	.290	.40	DN7549CT-ND	1.18	1.12	.73	DN7549TR-ND	372.40/M	SDS680R-683M
100	10	.480	.30	DN7550CT-ND	1.18	1.12	.73	DN7550TR-ND	372.40/M	SDS680R-104M
150	9	.590	.26	DN7551CT-ND	1.18	1.12	.73	DN7551TR-ND	372.40/M	SDS680R-154M
220	6	.770	.22	DN7552CT-ND	1.18	1.12	.73	DN7552TR-ND	372.40/M	SDS680R-224M
330	5	1.40	.20	DN7553CT-ND	1.18	1.12	.73	DN7553TR-ND	372.40/M	SDS680R-334M
470	4	1.80	.19	DN7554CT-ND	1.18	1.12	.73	DN7554TR-ND	372.40/M	SDS680R-474M
680	3	2.20	.18	DN7555CT-ND	1.18	1.12	.73	DN7555TR-ND	372.40/M	SDS680R-684M
1,000	2	3.40	.15	DN7556CT-ND	1.18	1.12	.73	DN7556TR-ND	372.40/M	SDS680R-105M
1,500	2	4.20	.12	DN7557CT-ND	1.18	1.12	.73	DN7557TR-ND	372.40/M	SDS680R-155M
2,200	2	8.50	.10	DN7558CT-ND	1.18	1.12	.73	DN7558TR-ND	372.40/M	SDS680R-225M
3,300	1	11.0	.08	DN7559CT-ND	1.18	1.12	.73	DN7559TR-ND	372.40/M	SDS680R-335M
4,700	1	13.9	.06	DN7560CT-ND	1.18	1.12	.73	DN7560TR-ND	372.40/M	SDS680R-475M
6,800	1	25.0	.04	DN7561CT-ND	1.18	1.12	.73	DN7561TR-ND	372.40/M	SDS680R-685M
10,000	0.8	32.8	.02	DN7562CT-ND	1.18	1.12	.73	DN7562TR-ND	372.40/M	SDS680R-106M

Series SDS850 Shielded SMD Power Chokes

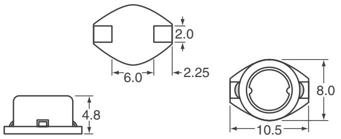

Specifications:
- Operating Temperature Range: -40°C ~ 85°C
- Core Material: Ferrite

Inductance (µH)	Test Freq. (MHz)	DC Resist. Max. (Ohms)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	API Delevan Part No.
2.2	100	.040	2.50	DN7563CT-ND	1.22	1.16	.76	DN7563TR-ND	406.00	SDS850R-222N
3.9	100	.055	2.10	DN7564CT-ND	1.22	1.16	.76	DN7564TR-ND	406.00	SDS850R-392N
5.6	100	.065	1.95	DN7565CT-ND	1.22	1.16	.76	DN7565TR-ND	406.00	SDS850R-562N
8.2	100	.080	1.75	DN7566CT-ND	1.22	1.16	.76	DN7566TR-ND	406.00	SDS850R-822N
10	1	.100	1.50	DN7567CT-ND	1.22	1.16	.76	DN7567TR-ND	406.00	SDS850R-103M
12	1	.120	1.40	DN7568CT-ND	1.22	1.16	.76	DN7568TR-ND	406.00	SDS850R-123M
15	1	.140	1.30	DN7569CT-ND	1.22	1.16	.76	DN7569TR-ND	406.00	SDS850R-153M
18	1	.160	1.20	DN7570CT-ND	1.22	1.16	.76	DN7570TR-ND	406.00	SDS850R-183M
22	1	.180	1.10	DN7571CT-ND	1.22	1.16	.76	DN7571TR-ND	406.00	SDS850R-223M
27	1	.200	1.00	DN7572CT-ND	1.22	1.16	.76	DN7572TR-ND	406.00	SDS850R-273M
33	1	.240	.920	DN7573CT-ND	1.22	1.16	.76	DN7573TR-ND	406.00	SDS850R-333M
39	1	.260	.840	DN7574CT-ND	1.22	1.16	.76	DN7574TR-ND	406.00	SDS850R-393M
47	1	.280	.750	DN7575CT-ND	1.22	1.16	.76	DN7575TR-ND	406.00	SDS850R-473M
56	1	.380	.680	DN7576CT-ND	1.22	1.16	.76	DN7576TR-ND	406.00	SDS850R-563M
68	1	.440	.600	DN7577CT-ND	1.22	1.16	.76	DN7577TR-ND	406.00	SDS850R-683M
82	1	.550	.540	DN7578CT-ND	1.22	1.16	.76	DN7578TR-ND	406.00	SDS850R-823M
100	1	.600	.500	DN7579CT-ND	1.22	1.16	.76	DN7579TR-ND	406.00	SDS850R-104M
120	1	.750	.450	DN7580CT-ND	1.22	1.16	.76	DN7580TR-ND	406.00	SDS850R-124M
150	1	.900	.400	DN7581CT-ND	1.22	1.16	.76	DN7581TR-ND	406.00	SDS850R-154M
180	1	1.05	.350	DN7582CT-ND	1.22	1.16	.76	DN7582TR-ND	406.00	SDS850R-184M
220	1	1.18	.300	DN7583CT-ND	1.22	1.16	.76	DN7583TR-ND	406.00	SDS850R-224M
270	1	1.40	.270	DN7584CT-ND	1.22	1.16	.76	DN7584TR-ND	406.00	SDS850R-274M
330	1	1.80	.240	DN7585CT-ND	1.22	1.16	.76	DN7585TR-ND	406.00	SDS850R-334M
390	1	2.10	.220	DN7586CT-ND	1.22	1.16	.76	DN7586TR-ND	406.00	SDS850R-394M
470	1	2.25	.200	DN7587CT-ND	1.22	1.16	.76	DN7587TR-ND	406.00	SDS850R-474M
560	1	3.00	.180	DN7588CT-ND	1.22	1.16	.76	DN7588TR-ND	406.00	SDS850R-564M
680	1	3.40	.170	DN7589CT-ND	1.22	1.16	.76	DN7589TR-ND	406.00	SDS850R-684M
820	1	4.00	.160	DN7590CT-ND	1.22	1.16	.76	DN7590TR-ND	406.00	SDS850R-824M
1,000	1	5.00	.150	DN7591CT-ND	1.22	1.16	.76	DN7591TR-ND	406.00	SDS850R-105M

Series DC630 High Current Power Line Chokes

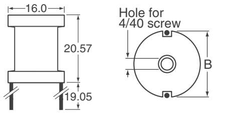

Features: • Insulated ferrite bobbin protected with a flame retardant polyolefin sleeve • Center hole allows for mechanical mounting **Specifications:** • Operating Temperature: -55°C ~ 125°C (-55°C ~ 80°C @ full rated current) • Power Dissipation at 80°C: 1.0W

Nom. Inductance (µH)	Ind. Tolerance	Max. Current Rating (A)	Max. DC Resistance (Ω)	Dim. B (mm)	Digi-Key Part No.	Price Each 1	10	50	API Delevan Part No.
1.0	±20%	14.0	.003	12.45	DN4758-ND	3.89	3.33	2.78	DC630R-102M
1.5	±20%	13.5	.004	12.45	DN4763-ND	3.89	3.33	2.78	DC630R-152M
2.2	±20%	12.8	.005	12.45	DN4768-ND	3.89	3.33	2.78	DC630R-222M
2.7	±20%	12.8	.005	12.45	DN4771-ND	3.89	3.33	2.78	DC630R-272M
3.3	±20%	12.8	.005	12.45	DN4774-ND	3.89	3.33	2.78	DC630R-332M
3.9	±20%	12.3	.006	12.45	DN4777-ND	3.89	3.33	2.78	DC630R-392M
4.7	±20%	11.7	.007	12.45	DN4780-ND	3.89	3.33	2.78	DC630R-472M
5.6	±20%	11.7	.007	12.45	DN4783-ND	3.89	3.33	2.78	DC630R-562M
6.8	±20%	10.5	.008	12.45	DN4786-ND	3.89	3.33	2.78	DC630R-682M
8.2	±20%	10.0	.009	12.45	DN4789-ND	3.89	3.33	2.78	DC630R-822M
10	±10%	9.5	.010	12.45	DN4759-ND	5.18	4.44	3.70	DC630R-103K
12	±10%	9.1	.011	12.45	DN4761-ND	5.18	4.44	3.70	DC630R-123K
15	±10%	8.09	.015	11.94	DN4764-ND	5.18	4.44	3.70	DC630R-153K
18	±10%	7.0	.02	11.68	DN4766-ND	5.18	4.44	3.70	DC630R-183K
22	±10%	6.26	.025	11.68	DN4769-ND	5.18	4.44	3.70	DC630R-223K
27	±10%	5.72	.030	11.18	DN4772-ND	5.18	4.44	3.70	DC630R-273K
33	±10%	4.95	.040	10.92	DN4775-ND	5.18	4.44	3.70	DC630R-333K
39	±10%	4.43	.050	10.67	DN4778-ND	5.18	4.44	3.70	DC630R-393K
47	±10%	3.98	.062	12.19	DN4781-ND	5.18	4.44	3.70	DC630R-473K
56	±10%	3.77	.069	12.19	DN4784-ND	5.18	4.44	3.70	DC630R-563K
68	±10%	3.57	.077	12.19	DN4787-ND	5.18	4.44	3.70	DC630R-683K
82	±10%	3.44	.083	12.19	DN4790-ND	5.18	4.44	3.70	DC630R-823K
100	±10%	3.21	.095	12.19	DN4760-ND	5.18	4.44	3.70	DC630R-104K
120	±10%	3.12	.100	12.19	DN4762-ND	5.18	4.44	3.70	DC630R-124K
150	±10%	2.97	.111	12.19	DN4765-ND	5.18	4.44	3.70	DC630R-154K
180	±10%	2.80	.125	12.19	DN4767-ND	5.18	4.44	3.70	DC630R-184K
220	±10%	2.42	.168	11.94	DN4770-ND	5.18	4.44	3.70	DC630R-224K
270	±10%	2.09	.225	11.43	DN4773-ND	5.18	4.44	3.70	DC630R-274K
330	±10%	1.72	.315	11.43	DN4776-ND	5.18	4.44	3.70	DC630R-334K
390	±10%	1.66	.342	12.19	DN4779-ND	5.18	4.44	3.70	DC630R-394K
470	±10%	1.58	.377	12.19	DN4782-ND	5.18	4.44	3.70	DC630R-474K
560	±10%	1.52	.408	12.19	DN4785-ND	5.18	4.44	3.70	DC630R-564K
680	±10%	1.42	.468	12.19	DN4788-ND	5.18	4.44	3.70	DC630R-684K

Series DC780 High Current Power Line Chokes

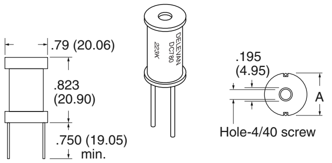

Mechanical Configuration: Ferrite bobbin protected with a flame retardant polyolefin sleeve. Center hole allows for mechanical mounting. Insulated bobbins. **Operating Temperature:** -55°C ~ 125°C, -55°C ~ 80°C @ full rated current

Nom. Induct. (µH)	Max. DCR (Ohms)	Max. Rated Current (ADC)	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	API Delevan Part No.
				Series DC780, ±15%				
1.0	0.003	11.4	.620 (15.748)	DN7841-ND◆	4.03	3.45	2.88	DC780R-102L
3.9	0.005	11.4	.620 (15.748)	DN2407-ND	4.03	3.45	2.88	DC780-392L
5.6	0.006	11.4	.620 (15.748)	DN2409-ND	4.03	3.45	2.88	DC780-562L
8.2	0.007	11.4	.620 (15.748)	DN7854-ND◆	4.03	3.45	2.88	DC780R-822L
				Series DC780, ±10%				
10	0.009	11.4	.620 (15.748)	DN7842-ND◆	5.39	4.62	3.85	DC780R-103K
12	0.009	11.4	.620 (15.748)	DN7844-ND◆	5.39	4.62	3.85	DC780R-123K
15	0.013	9.0	.625 (15.875)	DN2414-ND	5.39	4.62	3.85	DC780-153K
22	0.019	7.2	.630 (16.002)	DN2416-ND	5.39	4.62	3.85	DC780-223K
22	0.019	7.2	.630 (16.002)	DN7847-ND◆	5.39	4.62	3.85	DC780R-223K
33	0.029	5.5	.546 (13.868)	DN7850-ND◆	5.39	4.62	3.85	DC780R-333K
56	0.039	5.5	.625 (15.875)	DN7852-ND◆	5.39	4.62	3.85	DC780R-563K
100	0.080	4.0	.593 (15.062)	DN7843-ND◆	5.39	4.62	3.85	DC780R-104K
120	0.090	4.0	.593 (15.062)	DN2425-ND	5.39	4.62	3.85	DC780-124K
150	0.098	4.0	.593 (15.062)	DN7845-ND◆	5.39	4.62	3.85	DC780R-154K
180	0.110	4.0	.593 (15.062)	DN7846-ND◆	5.39	4.62	3.85	DC780R-184K
220	0.150	2.8	.593 (15.062)	DN7848-ND◆	5.39	4.62	3.85	DC780R-224K
330	0.305	1.6	.590 (14.986)	DN7851-ND◆	5.39	4.62	3.85	DC780R-334K
470	0.355	1.6	.590 (14.986)	DN2432-ND	5.39	4.62	3.85	DC780-474K
560	0.388	1.6	.590 (14.986)	DN7853-ND◆	5.39	4.62	3.85	DC780R-564K
2,200	1.540	0.8	.590 (14.986)	DN7849-ND◆	5.39	4.62	3.85	DC780R-225K

◆ RoHS Compliant

(Continued)

Series CM6296 Surface Mount Common Mode Chokes

Features:

- Flat top surface mount case with excellent coplanarity of terminals **Specifications:** Operating Temperature: -55°C ~ 125°C • Maximum Power Dissipation @ 25°C: 2.5W • Inductance Test Frequency: 1KHz

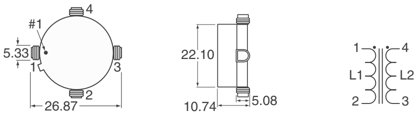

Inductance ±25% (µH)	Maximum Current Rating (A)	Max. DC Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
25	20	.014	DN4724-ND	12.15	10.41	6.94	CM6296R-253
50	20	.014	DN4728-ND	12.15	10.41	6.94	CM6296R-503
100	19	.016	DN4719-ND	12.15	10.41	6.94	CM6296R-104
150	19	.016	DN4721-ND	12.15	10.41	6.94	CM6296R-154
200	17	.016	DN4723-ND	12.15	10.41	6.94	CM6296R-204
300	15	.020	DN4726-ND	12.15	10.41	6.94	CM6296R-304
450	13	.024	DN4727-ND	12.15	10.41	6.94	CM6296R-454
650	11	.030	DN4729-ND	12.15	10.41	6.94	CM6296R-654
1000	7	.050	DN4720-ND	12.15	10.41	6.94	CM6296R-105
1500	5	.090	DN4722-ND	12.15	10.41	6.94	CM6296R-155
2500	4.4	.162	DN4725-ND	12.15	10.41	6.94	CM6296R-255

Series CM6460 Surface Mount Common Mode Chokes

Features:

- Excellent coplanarity of terminals **Specifications:** • Operating Temperature Range: -55°C ~ 105°C
- Maximum Power Dissipation at 25°C: .605W • Test Frequency: 10kHz

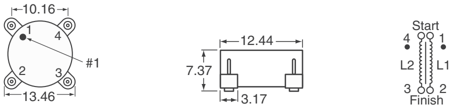

Inductance ±25% (µH)	Rated RMS Current (A)	Maximum DCR (Ω)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
100	7.0	.006	DN4730-ND	11.90	10.20	6.80	CM6460R-104
150	5.5	.010	DN4734-ND	11.90	10.20	6.80	CM6460R-154
220	5.0	.012	DN4736-ND	11.90	10.20	6.80	CM6460R-224
330	4.0	.017	DN4738-ND	11.90	10.20	6.80	CM6460R-334
500	3.3	.024	DN4740-ND	11.90	10.20	6.80	CM6460R-504
750	2.7	.035	DN4742-ND	11.90	10.20	6.80	CM6460R-754
1000	2.2	.049	DN4731-ND	11.90	10.20	6.80	CM6460R-105
1200	1.7	.068	DN4733-ND	11.90	10.20	6.80	CM6460R-125
1800	1.4	.106	DN4735-ND	11.90	10.20	6.80	CM6460R-185
2200	1.1	.150	DN4737-ND	11.90	10.20	6.80	CM6460R-225
3300	.85	.210	DN4739-ND	11.90	10.20	6.80	CM6460R-335
5000	.70	.320	DN4741-ND	11.90	10.20	6.80	CM6460R-505
7500	.44	.640	DN4743-ND	11.90	10.20	6.80	CM6460R-755
10,000	.33	.900	DN4732-ND	11.90	10.20	6.80	CM6460R-106

Series CM6560 Surface Mount Common Mode Chokes

Features:

- Excellent coplanarity of terminals **Specifications:** • Operating Temperature Range: -55°C ~ 105°C
- Maximum Power Dissipation at 25°C: .725W • Test Frequency: 10kHZ

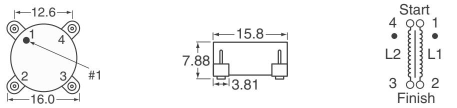

Inductance ±25% (µH)	Rated RMS Current (A)	Maximum DCR (Ω)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
100	8.5	.005	DN4744-ND	17.33	14.85	9.90	CM6560R-104
180	7	.007	DN4749-ND	17.33	14.85	9.90	CM6560R-184
330	4.8	.015	DN4752-ND	17.33	14.85	9.90	CM6560R-334
500	3.6	.023	DN4754-ND	17.33	14.85	9.90	CM6560R-504
750	3.0	.034	DN4756-ND	17.33	14.85	9.90	CM6560R-754
1000	2.4	.047	DN4745-ND	17.33	14.85	9.90	CM6560R-105
1800	1.9	.08	DN4750-ND	17.33	14.85	9.90	CM6560R-185
2200	1.5	.105	DN4751-ND	17.33	14.85	9.90	CM6560R-225
3300	1.2	.160	DN4753-ND	17.33	14.85	9.90	CM6560R-335
5000	0.95	.240	DN4755-ND	17.33	14.85	9.90	CM6560R-505
7500	0.75	.360	DN4757-ND	17.33	14.85	9.90	CM6560R-755
10,000	0.55	.530	DN4746-ND	17.33	14.85	9.90	CM6560R-106
12,000	0.45	.730	DN4747-ND	17.33	14.85	9.90	CM6560R-126
15,000	0.35	1.05	DN4748-ND	17.33	14.85	9.90	CM6560R-156

Series CM9900 PC Mount Common Mode Chokes

Operating Temperature Range: -55°C ~ 125°C **Current Rating at 80°C Ambient:** 40°C Rise **Mechanical Configuration:** Tape wrapped winding sections; varnish impregnated assembly

Notes: (1) Leakage inductance tested at L1 with L2 shorted or at L2 with L1 shorted (2) Windings balanced within 1%

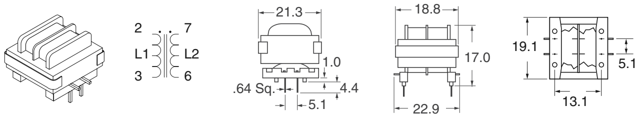

Inductance (µH) L1 or L2	Current Rating Max. (Amps)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
820	1.1	DN4614-ND	4.20	3.60	2.40	CM9900-824
2,200	.55	DN4619-ND	4.20	3.60	2.40	CM9900-225

Series CM6149 Surface Mount Low Profile Common Mode Chokes / Isolation Transformers

Operating Temperature Range: –55°C ~ 105°C **Electrical Characteristics:** Measured @ 25°C **Maximum Power Dissipation @ 25°C:** .200W

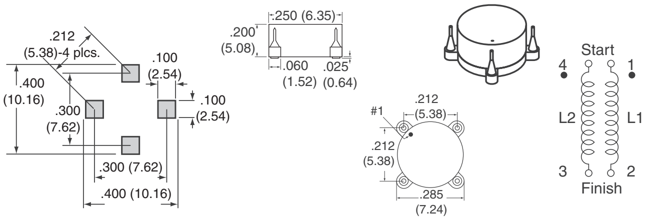

Inductance ±25% (µH) L1 or L2	Max. DCR (Ohms)	Rated RMS Current (Amps DC) Max.	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
68	.020	2.0	DN42145-ND◆	12.53	10.74	7.16	CM6149R-683
100	.030	1.6	DN42143-ND◆	12.53	10.74	7.16	CM6149R-104
330	.090	.75	DN12831-ND	12.53	10.74	7.16	CM6149-334
1,200	.350	.30	DN12835-ND	12.53	10.74	7.16	CM6149-125
1,500	.500	.24	DN12836-ND	12.53	10.74	7.16	CM6149-155
2,200	.750	.18	DN12837-ND	12.53	10.74	7.16	CM6149-225
2,200	.750	.18	DN42144-ND◆	12.53	10.74	7.16	CM6149R-225

◆ *RoHS Compliant*

Series CM6350 Surface Mount Common Mode Chokes

Operating Temperature Range: –55°C ~ 105°C **Electrical Characteristics:** Measured @ 25°C **Maximum Power Dissipation @ 25°C:** .400W

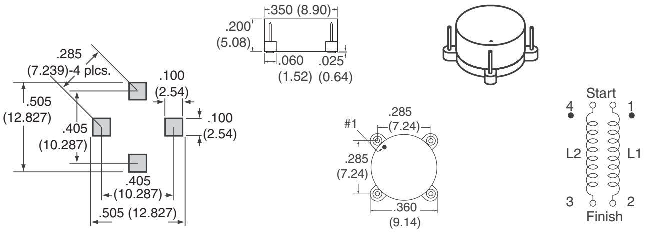

Inductance ±25% (µH) L1 or L2	Maximum DCR (Ohms)	Rated RMS Current (Amps) Max.	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
33	0.007	5.50	DN42151-ND	9.52	8.16	5.44	CM6350R-333
47	0.008	5.00	DN42154-ND	9.52	8.16	5.44	CM6350R-473
68	0.010	4.20	DN42157-ND	9.52	8.16	5.44	CM6350R-683
100	0.014	3.30	DN42146-ND	9.52	8.16	5.44	CM6350R-104
220	0.027	2.20	DN42149-ND	9.52	8.16	5.44	CM6350R-224
330	0.040	1.80	DN42152-ND	9.52	8.16	5.44	CM6350R-334
470	0.060	1.50	DN42155-ND	9.52	8.16	5.44	CM6350R-474
680	0.090	1.20	DN42158-ND	9.52	8.16	5.44	CM6350R-684
1,000	0.130	0.90	DN42147-ND	9.52	8.16	5.44	CM6350R-105
1,500	0.190	0.75	DN42148-ND	9.52	8.16	5.44	CM6350R-155
2,200	0.300	0.60	DN42150-ND	9.52	8.16	5.44	CM6350R-225
3,300	0.550	0.40	DN42153-ND	9.52	8.16	5.44	CM6350R-335
4,700	1.050	0.25	DN42156-ND	9.52	8.16	5.44	CM6350R-475

(Continued)

Series 4426 Surface Mount Air Core Inductors

High Q, wire wound air cores designed to operate over a wide frequency range. Flat cap top is suitable for automatic placement. **Operating Temperature Range:** -55°C ~ 125°C

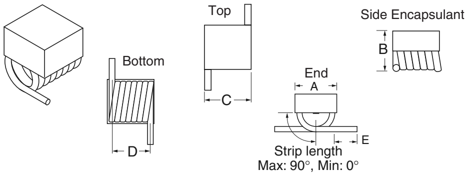

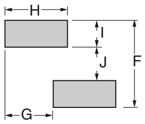

Typical Pad Layout

	Size A		Size B	
	(Inch)	(mm)	(Inch)	(mm)
A Max.	.120	3.05	.120	3.05
B Max.	.125	3.18	.125	3.18
C Max.	.145	3.68	.270	6.86
D	.115±.010	2.92±.25	.230±.010	5.84±.25
E	.05±.015	1.27±.38	.05±.015	1.27±.38
F	.165	4.19	.285	7.23
G	.110	2.79	.110	2.79
H	.130	3.30	.130	3.30
I	.050	1.27	.050	1.27
J	.065	1.65	.185	4.69

Size Code	Induct. (nH)	Turns	Q Min.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	API Delevan Part No.
Series 4426 Air Core Inductors											
A	2.5 ±10%	1	145	DN7739CT-ND◆	.97	.92	.60	DN7739TR-ND◆	650	231.73	4426R-1
	5.0 ±10%	2	140	DN7741CT-ND◆	.97	.92	.60	DN7741TR-ND◆	650	231.73	4426R-2
	8.0 ±5%	3	140	DN7742CT-ND◆	.97	.92	.60	DN7742TR-ND◆	650	231.73	4426R-3
	12.5 ±5%	4	137	DN7743CT-ND◆	.97	.92	.60	DN7743TR-ND◆	650	231.73	4426R-4
	18.5 ±5%	5	132	DN7744CT-ND◆	.97	.92	.60	DN7744TR-ND◆	650	231.73	4426R-5
B	22.0 ±5%	7	102	DN4007CT-ND	.97	.92	.60	—	—	—	4426-7
	22.0 ±5%	7	102	DN7745CT-ND◆	.97	.92	.60	DN7745TR-ND◆	400	142.60	4426R-7
	28.0 ±5%	8	105	DN4008CT-ND	.97	.92	.60	DN4008TR-ND	400	142.60	4426-8
	28.0 ±5%	8	105	DN7746CT-ND◆	.97	.92	.60	DN7746TR-ND◆	400	142.60	4426R-8
	35.5 ±5%	9	112	DN7747CT-ND◆	.97	.92	.60	DN7747TR-ND◆	400	142.60	4426R-9
	43.0 ±5%	11	106	DN7740CT-ND◆	.97	.92	.60	DN7740TR-ND◆	400	142.60	4426R-10

4426RKIT-ND◆ (4426RKIT) **Series 4426 Inductor Kit**
5 each of 10 values (2.5nH to 43nH), 50 total pieces **$147.00**
◆ ***RoHS Compliant***

Series SMB 2.5 Surface Mount Shield Beads

High resistivity ferrite material eliminates the need to insulate windings.
Lead wire is plated copper. **Operating Temperature Range:** –40°C ~ 125°C

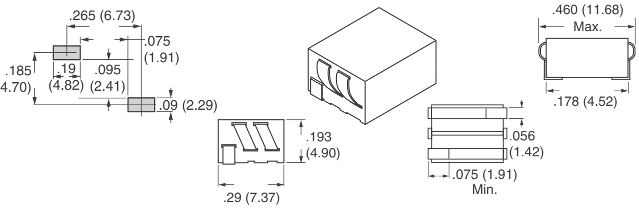

API Delevan Part No.	Turns	Minimum Impedance (Ohms) 10 MHz	100 MHz	150 MHz	220 MHz	Idc Max. (Amps)	DCR Max. (Ohms)
SMB2.5-1	2 1/2	210	385	400	375	9.5	0.005
SMB2.5-2	2 1/2	NA	490	635	650	9.5	0.005

Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape & Reel Pricing 700	API Delevan Part No.
DN7957CT-ND	.92	.75	.60	DN7957TR-ND	249.55	SMB2.5R-1
DN7958CT-ND	.92	.75	.60	DN7958TR-ND	249.55	SMB2.5R-2

Series 4221 Surface Mount Filter Beads

Specifications: • Operating Temperature Range: -55°C ~ 125°C • Current Rating: 5A maximum • Material: Ferrite bead with plated copper lead

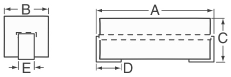

Impedance (Ω) @25MHz	@100MHz	Dimensions (mm) A	B	C	D	E	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel◊ Pricing 500	API Delevan Part No.
22	47	5.0	3.05	3.05	1.5	1.25	DN4702CT-ND	.55	5.20	33.80	100.75	4221R-1
45	95	9.5	3.05	3.05	1.5	1.25	DN4703CT-ND	.55	5.20	33.80	100.75	4221R-2
22	42	5.5	2.97	3.5	1.5	1.25	DN4704CT-ND	.55	5.20	33.80	100.75	4221R-3
43	85	8.9	4.75	3.5	1.5	1.85	DN4705CT-ND	.55	5.20	33.80	100.75	4221R-4

◊ For Tape and Reel part number, change CT-ND to TR-ND.

Series BF Split Ferrite Suppressors for Round Cables

One of the most versatile and cost effective shielding methods that can be used today is the API Delevan bisected ferrite cable snap assembly. The bisected styling, or familiar clamshell enclosure design, offers the ultimate in adaptability. The RF absorbing material interacts directly with unwanted high frequency energy and dissipates it effectively while allowing data signals to pass unimpeded.

All plastic and adhesive components are UL Recognized with Flammability Ratings of UL94V-0, UL-510 or UL-746C. Color is black.

Fig. 1

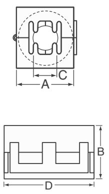

Fig. 2

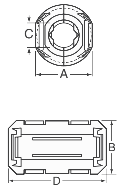

Fig. 3

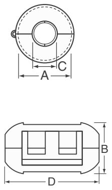

Fig. 4

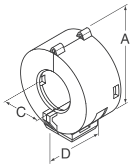

Fig. 5

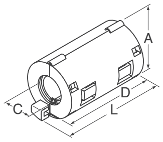

Fig.	Impedance (Ω) @25MHz	@100MHz	Dimensions (mm) A	B	C	D	L	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
1	136	250	22.3	23.3	10	32.6	—	DN4715-ND	2.98	2.55	1.70	BF2223
	155	257	29.6	30.5	13	33	—	DN4716-ND	2.98	2.55	1.70	BF2930
	171	325	17.8	19.5	6.5	32.5	—	DN4710-ND	2.98	2.55	1.70	BF1719
2	96	154	11.7	13	5	25	—	DN4707-ND	2.03	1.74	1.16	BF1125-5
	112	172	18	19.7	9	35	—	DN4711-ND	2.03	1.74	1.16	BF1835
	139	191	11.7	13	3.5	25	—	DN4706-ND	2.03	1.74	1.16	BF1125-3
3	82	146	12.8	14.7	4	25	—	DN4708-ND	1.72	1.47	.98	BF1225
	85	157	14.5	15.7	5.6	29	—	DN4709-ND	1.72	1.47	.98	BF1429
4	41	95	31.5	—	15	15.2	—	DN4718-ND	1.86	1.59	1.06	BF3121
	42	94	21.5	—	8.15	16.8	—	DN4713-ND	1.86	1.59	1.06	BF2123
	50	107	21.5	—	8.15	19.7	—	DN4714-ND	1.86	1.59	1.06	BF2125
	51	103	30.5	—	11.4	17.7	—	DN4717-ND	1.86	1.59	1.06	BF3024
5	126	174	18.6	—	9	31	35.2	DN4712-ND	2.17	1.86	1.24	BF1835-9

Flexible Ferrite Absorbent Tubing

Features: • Provides effective EMI suppression in a wide frequency range (10MHz to 3GHz) • High electrical resistance (10^6 to 10^8) • Easy and fast to process • Extremely flexible • Six sizes to chose from • Can be incorporated into the over-molding process on cable assemblies • Eliminates the task of soldering braid • Effectively eliminates EMI and RFI problems on internal and external power, data and signal lines

Specifications: • Operating Temperature Range: -55°C ~ 125°C • Length: 1 meter

Inside Diameter (mm)	Outside Diameter (mm)	Typical Impedance (Ω) @ 100MHz	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
1.8	2.9	140	DN41988-ND	19.53	16.74	11.16	FFAT32
4	5	138	DN41989-ND	20.62	17.67	11.78	FFAT54
5	6.5	132	DN41990-ND	46.41	39.78	26.52	FFAT65
6	9	134	DN41991-ND	84.14	72.12	48.08	FFAT96
7	11	137	DN41992-ND	104.69	89.73	59.82	FFAT117
10	14	149	DN41993-ND	125.86	107.88	71.92	FFAT1410

Flexible Ferrite Absorbent Material

Features: • Provides effective EMI suppression in a wide frequency range (10MHz to 3GHz) • Effective in preventing resonance and suppressing coupling • Ultra thin (.25mm through 2.5mm) • High electrical resistance (10^6 to 10^8 ohms) • Extremely flexible

Specifications: • Operating Temperature Range: -55°C ~ 125°C

Sheet Size (mm)	Sheet Thickness (mm)	Adhesive Backing	Impedance @ 100MHz	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
100 x 100	0.25	Yes	55	DN41994-ND	14.11	12.09	8.06	FFAM025-1*1*T
	0.6	No	58	DN41995-ND	10.33	8.85	5.90	FFAM06-1*1
	0.6	Yes	58	DN41996-ND	11.76	10.08	6.72	FFAM06-1*1*T
	1.0	No	60	DN41997-ND	12.81	10.98	7.32	FFAM10-1*1
	1.0	Yes	60	DN41998-ND	14.21	12.18	8.12	FFAM10-1*1*T
	1.5	No	61	DN41999-ND	19.11	16.38	10.92	FFAM15-1*1
	1.5	Yes	61	DN42000-ND	20.55	17.61	11.74	FFAM15-1*1*T
	2.0	No	62	DN42001-ND	25.69	22.02	14.68	FFAM20-1*1
	2.0	Yes	62	DN42002-ND	27.16	23.28	15.52	FFAM20-1*1*T
	2.5	No	63	DN42003-ND	32.38	27.75	18.50	FFAM25-1*1
	2.5	Yes	63	DN42004-ND	33.85	29.01	19.34	FFAM25-1*1*T

Midcom WÜRTH ELEKTRONIK

WE-TPC Series — Shielded Low Profile Power Inductors

RoHS COMPLIANT

Features: • Extremely low profile power inductor • High current capability • High reliability and perfect soldering characteristics because of an integrated soldering pad • Magnetically shielded which results in a low leakage field

Specifications: • Operating Temperature: -40°C ~ 125°C

Applications: • Portable power like PDA • Digital camera • PCMCIA cards and diplays • DC/DC converter

Dim. in mm

Fig. 1

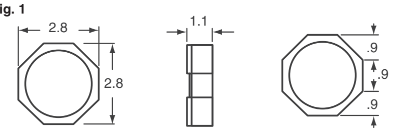

Fig. 2

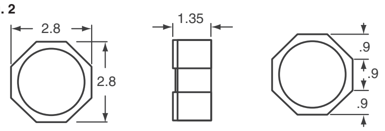

Fig. 3

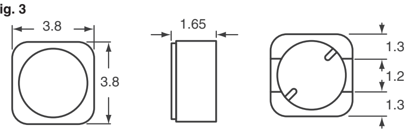

Fig. 4

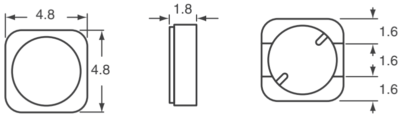

Fig. 5

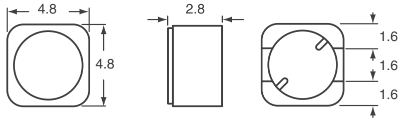

Fig. 6

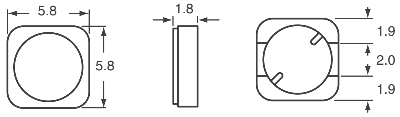

Fig. 7

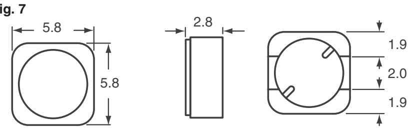

Fig. 8

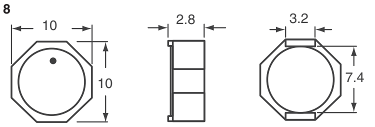

Fig. 9

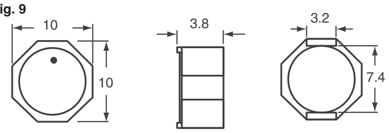

Inductance (µH)	DCR Max. (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel*		Wurth Part No.
				1	25	100	Qty.	Pricing	
T-Type — Fig. 1									
0.11	0.020	4.8	732-1321-1-ND	1.92	1.60	1.36	1,500	640.00/M	74402800011
0.33	0.035	3.0	732-1322-1-ND	1.92	1.60	1.36	1,500	640.00/M	74402800033
0.47	0.042	2.6	732-1323-1-ND	1.92	1.60	1.36	1,500	640.00/M	74402800047
0.82	0.065	2.2	732-1324-1-ND	1.92	1.60	1.36	1,500	640.00/M	74402800082
1.0	0.085	2.2	732-1000-1-ND	1.92	1.60	1.36	1,500	640.00/M	744028001
2.2	0.130	1.8	732-1001-1-ND	1.92	1.60	1.36	1,500	640.00/M	744028002
3.3	0.210	1.3	732-1002-1-ND	1.92	1.60	1.36	1,500	640.00/M	744028003
4.7	0.300	1.15	732-1003-1-ND	1.92	1.60	1.36	1,500	640.00/M	744028004
6.8	0.460	0.9	732-1004-1-ND	1.92	1.60	1.36	1,500	640.00/M	744028006
10	0.740	0.7	732-1092-1-ND	1.92	1.60	1.36	1,500	640.00/M	744028100
TH-Type — Fig. 2									
0.11	0.016	5.0	732-1325-1-ND	1.98	1.65	1.41	1,200	660.00/M	74402900011
0.33	0.028	3.2	732-1326-1-ND	1.98	1.65	1.41	1,200	660.00/M	74402900033
0.47	0.037	2.8	732-1327-1-ND	1.98	1.65	1.41	1,200	660.00/M	74402900047
0.82	0.046	2.6	732-1328-1-ND	1.98	1.65	1.41	1,200	660.00/M	74402900082
1.0	0.064	2.5	732-1086-1-ND	1.98	1.65	1.41	1,200	660.00/M	744029001
2.2	0.110	1.9	732-1087-1-ND	1.98	1.65	1.41	1,200	660.00/M	744029002
3.3	0.155	1.55	732-1088-1-ND	1.98	1.65	1.41	1,200	660.00/M	744029003
4.7	0.210	1.2	732-1089-1-ND	1.98	1.65	1.41	1,200	660.00/M	744029004
6.8	0.380	1.0	732-1090-1-ND	1.98	1.65	1.41	1,200	660.00/M	744029006
10	0.500	0.8	732-1091-1-ND	1.98	1.65	1.41	1,200	660.00/M	744029100
S-Type — Fig. 3									
1.5	0.047	1.75	732-1005-1-ND	1.80	1.50	1.28	1,000	600.00	744031001
2.5	0.058	1.45	732-1006-1-ND	1.80	1.50	1.28	1,000	600.00	744031002
3.6	0.085	1.38	732-1007-1-ND	1.80	1.50	1.28	1,000	600.00	744031003
4.7	0.105	1.2	732-1008-1-ND	1.80	1.50	1.28	1,000	600.00	744031004
6.8	0.156	.85	732-1009-1-ND	1.80	1.50	1.28	1,000	600.00	744031006
10	0.205	.74	732-1010-1-ND	1.80	1.50	1.28	1,000	600.00	744031100
15	0.285	.62	732-1011-1-ND	1.80	1.50	1.28	1,000	600.00	744031150
22	0.450	.51	732-1012-1-ND	1.80	1.50	1.28	1,000	600.00	744031220
33	0.660	.42	732-1013-1-ND	1.80	1.50	1.28	1,000	600.00	744031330
47	1.0	.39	732-1014-1-ND	1.80	1.50	1.28	1,000	600.00	744031470
100	2.4	.25	732-1015-1-ND	1.80	1.50	1.28	1,000	600.00	744031101
M-Type — Fig. 4									
1.0	0.030	2.7	732-1016-1-ND	1.74	1.45	1.24	800	556.80	744042001
1.8	0.050	2.35	732-1017-1-ND	1.74	1.45	1.24	800	556.80	7440420018
2.7	0.06	2.03	732-1018-1-ND	1.74	1.45	1.24	800	556.80	7440420027
3.3	0.065	1.95	732-1019-1-ND	1.74	1.45	1.24	800	556.80	744042003
3.9	0.075	1.82	732-1020-1-ND	1.74	1.45	1.24	800	556.80	7440420039
4.7	0.082	1.72	732-1021-1-ND	1.74	1.45	1.24	800	556.80	744042004
5.6	0.09	1.64	732-1022-1-ND	1.74	1.45	1.24	800	556.80	744042005
6.8	0.1	1.5	732-1023-1-ND	1.74	1.45	1.24	800	556.80	744042006
8.2	0.135	1.4	732-1024-1-ND	1.74	1.45	1.24	800	556.80	744042008
10	0.15	1.3	732-1025-1-ND	1.74	1.45	1.24	800	556.80	744042100
MH-Type — Fig. 5									
1.2	0.020	3.1	732-1093-1-ND	1.92	1.60	1.36	500	400.00	7440430012
1.8	0.025	2.7	732-1094-1-ND	1.92	1.60	1.36	500	400.00	7440430018
2.2	0.028	2.5	732-1095-1-ND	1.92	1.60	1.36	500	400.00	7440430022
2.7	0.03	2.35	732-1096-1-ND	1.92	1.60	1.36	500	400.00	7440430027
3.3	0.035	2.15	732-1097-1-ND	1.92	1.60	1.36	500	400.00	744043003
3.9	0.06	1.72	732-1098-1-ND	1.92	1.60	1.36	500	400.00	7440430039
4.7	0.07	1.55	732-1099-1-ND	1.92	1.60	1.36	500	400.00	744043004
5.6	0.085	1.38	732-1100-1-ND	1.92	1.60	1.36	500	400.00	744043005
6.8	0.09	1.3	732-1101-1-ND	1.92	1.60	1.36	500	400.00	744043006
8.2	0.1	1.25	732-1102-1-ND	1.92	1.60	1.36	500	400.00	744043008
10	0.11	1.19	732-1103-1-ND	1.92	1.60	1.36	500	400.00	744043100
12	0.125	1.12	732-1104-1-ND	1.92	1.60	1.36	500	400.00	744043120
15	0.15	1.03	732-1105-1-ND	1.92	1.60	1.36	500	400.00	744043150
18	0.16	.98	732-1106-1-ND	1.92	1.60	1.36	500	400.00	744043180
22	0.185	.925	732-1107-1-ND	1.92	1.60	1.36	500	400.00	744043220
33	0.230	.82	732-1108-1-ND	1.92	1.60	1.36	500	400.00	744043330
47	0.280	.75	732-1109-1-ND	1.92	1.60	1.36	500	400.00	744043470
68	0.400	.63	732-1110-1-ND	1.92	1.60	1.36	500	400.00	744043680
100	0.600	.51	732-1111-1-ND	1.92	1.60	1.36	500	400.00	744043101
L-Type — Fig. 6									
1.2	0.03	3.0	732-1026-1-ND	1.92	1.60	1.36	500	400.00	7440520012
1.8	0.035	2.6	732-1027-1-ND	1.92	1.60	1.36	500	400.00	7440520018
2.5	0.04	2.4	732-1028-1-ND	1.92	1.60	1.36	500	400.00	744052002
3.0	0.045	2.2	732-1029-1-ND	1.92	1.60	1.36	500	400.00	744052003
3.9	0.055	2.0	732-1030-1-ND	1.92	1.60	1.36	500	400.00	7440520039
5.0	0.06	1.65	732-1031-1-ND	1.92	1.60	1.36	500	400.00	744052005
6.2	0.08	1.45	732-1032-1-ND	1.92	1.60	1.36	500	400.00	744052006
7.5	0.09	1.35	732-1033-1-ND	1.92	1.60	1.36	500	400.00	744052007
9.0	0.11	1.25	732-1034-1-ND	1.92	1.60	1.36	500	400.00	744052009
10	0.13	1.1	732-1035-1-ND	1.92	1.60	1.36	500	400.00	744052100
LH-Type — Fig. 7									
2.6	0.03	3.0	732-1036-1-ND	2.10	1.75	1.49	400	385.20	744053002
3.0	0.03	2.8	732-1037-1-ND	2.10	1.75	1.49	400	385.20	744053003
4.0	0.035	2.5	732-1038-1-ND	2.10	1.75	1.49	400	385.20	744053004
4.7	0.038	2.4	732-1039-1-ND	2.10	1.75	1.49	400	385.20	7440530047
5.3	0.04	2.3	732-1040-1-ND	2.10	1.75	1.49	400	385.20	744053005
6.2	0.045	2.2	732-1041-1-ND	2.10	1.75	1.49	400	385.20	744053006
8.2	0.055	2.1	732-1042-1-ND	2.10	1.75	1.49	400	385.20	744053008
10	0.07	1.5	732-1043-1-ND	2.10	1.75	1.49	400	385.20	744053100
12	0.08	1.46	732-1044-1-ND	2.10	1.75	1.49	400	385.20	744053120
15	0.1	1.38	732-1045-1-ND	2.10	1.75	1.49	400	385.20	744053150
18	0.11	1.25	732-1046-1-ND	2.10	1.75	1.49	400	385.20	744053180
22	0.12	1.15	732-1047-1-ND	2.10	1.75	1.49	400	385.20	744053220
27	0.16	1.05	732-1048-1-ND	2.10	1.75	1.49	400	385.20	744053270
33	0.19	.90	732-1049-1-ND	2.10	1.75	1.49	400	385.20	744053330
47	0.25	.82	732-1050-1-ND	2.10	1.75	1.49	400	385.20	744053470
68	0.35	.62	732-1051-1-ND	2.10	1.75	1.49	400	385.20	744053680
100	0.48	.45	732-1052-1-ND	2.10	1.75	1.49	400	385.20	744053101
XL-Type — Fig. 8									
1.0	0.0065	8.0	732-1053-1-ND	2.34	1.95	1.66	1,000	780.00	744065001
1.5	0.01	7.2	732-1054-1-ND	2.34	1.95	1.66	1,000	780.00	7440650015
2.2	0.015	6.2	732-1055-1-ND	2.34	1.95	1.66	1,000	780.00	7440650022
3.3	0.02	5.3	732-1056-1-ND	2.34	1.95	1.66	1,000	780.00	7440650033
4.7	0.023	4.6	732-1057-1-ND	2.34	1.95	1.66	1,000	780.00	7440650047
6.8	0.033	4.2	732-1058-1-ND	2.34	1.95	1.66	1,000	780.00	7440650068
8.2	0.037	3.8	732-1059-1-ND	2.34	1.95	1.66	1,000	780.00	7440650082
10	0.053	3.0	732-1060-1-ND	2.34	1.95	1.66	1,000	780.00	744065100
15	0.09	2.2	732-1061-1-ND	2.34	1.95	1.66	1,000	780.00	744065150
22	0.135	1.8	732-1062-1-ND	2.34	1.95	1.66	1,000	780.00	744065220
33	0.18	1.6	732-1063-1-ND	2.34	1.95	1.66	1,000	780.00	744065330
47	0.23	1.4	732-1064-1-ND	2.34	1.95	1.66	1,000	780.00	744065470
56	0.27	1.25	732-1065-1-ND	2.34	1.95	1.66	1,000	780.00	744065560
68	0.3	1.2	732-1066-1-ND	2.34	1.95	1.66	1,000	780.00	744065680
82	0.42	1.1	732-1067-1-ND	2.34	1.95	1.66	1,000	780.00	744065820
100	0.47	1.0	732-1068-1-ND	2.34	1.95	1.66	1,000	780.00	744065101
120	0.56	.90	732-1069-1-ND	2.34	1.95	1.66	1,000	780.00	744065121
150	0.68	.85	732-1070-1-ND	2.34	1.95	1.66	1,000	780.00	744065151
XLH-Type — Fig. 9									
1.5	0.0075	7.2	732-1071-1-ND	2.70	2.25	1.92	800	864.00	7440660015
2.2	0.0105	6.7	732-1072-1-ND	2.70	2.25	1.92	800	864.00	7440660022
3.5	0.015	5.8	732-1073-1-ND	2.70	2.25	1.92	800	864.00	7440660035
5.0	0.022	4.9	732-1074-1-ND	2.70	2.25	1.92	800	864.00	744066005
6.2	0.024	4.3	732-1075-1-ND	2.70	2.25	1.92	800	864.00	7440660062
10	0.035	3.6	732-1076-1-ND	2.70	2.25	1.92	800	864.00	744066100
15	0.05	3.2	732-1077-1-ND	2.70	2.25	1.92	800	864.00	744066150
22	0.075	2.5	732-1078-1-ND	2.70	2.25	1.92	800	864.00	744066220
33	0.112	2.1	732-1079-1-ND	2.70	2.25	1.92	800	864.00	744066330
47	0.16	1.75	732-1080-1-ND	2.70	2.25	1.92	800	864.00	744066470
68	0.216	1.5	732-1081-1-ND	2.70	2.25	1.92	800	864.00	744066680
100	0.3	1.2	732-1082-1-ND	2.70	2.25	1.92	800	864.00	744066101
150	0.47	1.0	732-1083-1-ND	2.70	2.25	1.92	800	864.00	744066151
220	0.74	.75	732-1084-1-ND	2.70	2.25	1.92	800	864.00	744066221
330	1.0	.60	732-1085-1-ND	2.70	2.25	1.92	800	864.00	744066331

* For Tape and Reel part number, change 1-ND to 2-ND.

732-1656-ND (744722) WE-TPC/PD/PD2 Series Kit (See Digi-Key website for contents of kit) **$126.00**

Midcom
WÜRTH ELEKTRONIK

WE-HCA Series — High Current Flat Wire SMD Inductors

Features: • Flat wire coil for lower losses at high frequency ranges • Low leakage field • Extremely low profile design **Specifications:** • Operating Temperature: -40°C ~ 150°C • Inductance Tolerance: ±20% **Applications:** • Graphic cards • Laptops • Industrial computers • Motherboards • High current switching regulators • High temperature electronics • Polyphase switching regulators

Dim. in mm

Fig. 1

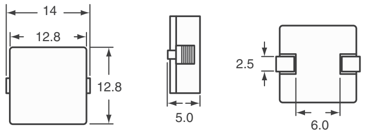

Fig. 2

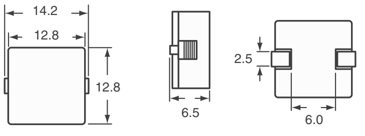

Fig. 3

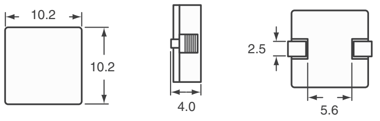

Inductance (µH)	DCR Max.(mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel* Qty.	Pricing	Würth Part No.
			Fig. 1						
0.19	0.72	29	732-1112-1-ND	4.32	3.60	3.06	400	792.00	744355019
0.47	1.30	26	732-1114-1-ND	4.32	3.60	3.06	400	792.00	744355047
0.90	1.90	24	732-1115-1-ND	4.32	3.60	3.06	400	792.00	744355090
1.40	2.80	22	732-1116-1-ND	4.32	3.60	3.06	400	792.00	7443550140
2.30	4.50	17.5	732-1117-1-ND	4.32	3.60	3.06	400	792.00	7443550230
3.20	6.50	16	732-1118-1-ND	4.32	3.60	3.06	400	792.00	7443550320
4.80	12.00	11	732-1119-1-ND	4.32	3.60	3.06	400	792.00	7443550480
6.00	15.00	9.5	732-1120-1-ND	4.32	3.60	3.06	400	792.00	7443550600
			Fig. 2						
0.20	0.43	32	732-1121-1-ND	4.50	3.75	3.19	400	825.20	744355122
0.47	0.80	30	732-1122-1-ND	4.50	3.75	3.19	400	825.20	744355147
0.82	1.20	27	732-1123-1-ND	4.50	3.75	3.19	400	825.20	744355182
1.30	2.00	25	732-1124-1-ND	4.50	3.75	3.19	400	825.20	7443551130
2.00	3.00	23	732-1125-1-ND	4.50	3.75	3.19	400	825.20	7443551200
2.80	3.80	19	732-1126-1-ND	4.50	3.75	3.19	400	825.20	7443551280
3.70	5.30	17	732-1127-1-ND	4.50	3.75	3.19	400	825.20	7443551370
4.70	7.70	13	732-1128-1-ND	4.50	3.75	3.19	400	825.20	7443551470
6.00	9.00	12	732-1129-1-ND	4.50	3.75	3.19	400	825.20	7443551600
7.30	6.40	13	732-1137-1-ND	4.50	3.75	3.19	400	825.20	7443551730
9.20	8.40	12	732-1138-1-ND	4.50	3.75	3.19	400	825.20	7443551920
11.30	10.00	11	732-1139-1-ND	4.50	3.75	3.19	400	825.20	7443551111
13.00	12.50	10	732-1140-1-ND	4.50	3.75	3.19	400	825.20	7443551131
15.40	16.00	9	732-1141-1-ND	4.50	3.75	3.19	400	825.20	7443551151
			Fig. 3						
0.15	0.72	25	732-1142-1-ND†	3.90	3.25	2.77	800	1248.00	744355215
0.30	1.30	22	732-1130-1-ND	3.90	3.25	2.77	800	1248.00	744355230
0.56	1.80	20	732-1131-1-ND	3.90	3.25	2.77	800	1248.00	744355256
1.00	3.80	16	732-1132-1-ND	3.90	3.25	2.77	800	1248.00	7443552100
1.50	5.70	14	732-1133-1-ND	3.90	3.25	2.77	800	1248.00	7443552150
2.00	8.00	11	732-1134-1-ND	3.90	3.25	2.77	800	1248.00	7443552200
2.80	13.00	9.5	732-1135-1-ND	3.90	3.25	2.77	800	1248.00	7443552280
4.30	17.00	8.0	732-1136-1-ND	3.90	3.25	2.77	800	1248.00	7443552430

* For Tape and Reel part number, change 1-ND to 2-ND. † ±30% Tolerance

WE-HC Series — High Current Flat Wire SMD Inductors

Features: • Flat wire coil for lower losses at high frequencies • Low leakage field • Extremely low profile design **Specifications:** • Operating Temperature: -40°C ~ 155°C • Inductance Tolerance: ±20% **Applications:** • Graphic cards • Laptops • Industrial computers • Motherboards • High current switching regulators • High temperature electronics • Polyphase - switching regulators

Dim. in mm

Fig. 1

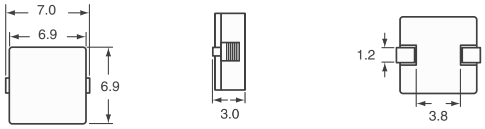

Fig. 2

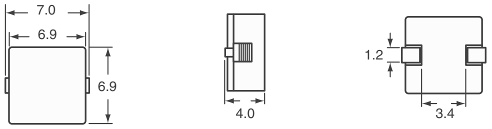

Fig. 3

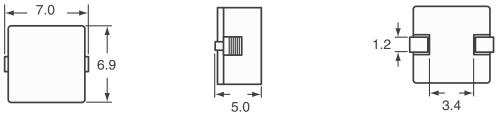

Fig. 4

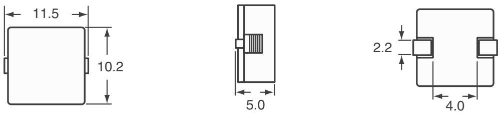

Inductance (µH)	DCR Max. (mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel* Qty.	Pricing	Würth Part No.
			Fig. 1						
0.13	1.05	22	732-1143-1-ND	3.06	2.55	2.17	1,500	1020.00/M	744310013
0.24	2.1	18	732-1144-1-ND	3.06	2.55	2.17	1,500	1020.00/M	744310024
0.52	3.8	14	732-1145-1-ND	3.06	2.55	2.17	1,500	1020.00/M	744310055
0.95	6.5	11	732-1146-1-ND	3.06	2.55	2.17	1,500	1020.00/M	744310095
1.15	9	8.5	732-1147-1-ND	3.06	2.55	2.17	1,500	1020.00/M	744310115
2	14	6.5	732-1148-1-ND	3.06	2.55	2.17	1,500	1020.00/M	744310200
			Fig. 2						
0.68	3.5	17	732-1149-1-ND	3.12	2.60	2.21	1,000	1040.00	744311068
1.5	7.8	11	732-1150-1-ND	3.12	2.60	2.21	1,000	1040.00	744311150
2.2	11.5	9	732-1151-1-ND	3.12	2.60	2.21	1,000	1040.00	744311220
3.3	18	6.5	732-1152-1-ND	3.12	2.60	2.21	1,000	1040.00	744311330
4.7	20	6	732-1153-1-ND	3.12	2.60	2.21	1,000	1040.00	744311470
			Fig. 3						
0.24	1.15	20	732-1154-1-ND	3.30	2.75	2.34	1,000	1100.00	744314024
0.47	2.00	18	732-1155-1-ND	3.30	2.75	2.34	1,000	1100.00	744314047
0.76	2.90	15.5	732-1156-1-ND	3.30	2.75	2.34	1,000	1100.00	744314076
1.10	3.80	15	732-1157-1-ND	3.30	2.75	2.34	1,000	1100.00	744314110
1.50	5.20	13	732-1158-1-ND	3.30	2.75	2.34	1,000	1100.00	744314150
2.00	7.00	11.5	732-1159-1-ND	3.30	2.75	2.34	1,000	1100.00	744314200
3.30	11.6	9	732-1160-1-ND	3.30	2.75	2.34	1,000	1100.00	744314330
4.90	17.00	6.5	732-1161-1-ND	3.30	2.75	2.34	1,000	1100.00	744314490
6.5	25.00	6	732-1162-1-ND	3.30	2.75	2.34	1,000	1100.00	744314650
			Fig. 4						
0.16	0.56	25	732-1163-1-ND	4.14	3.45	2.94	700	1207.50	744325016
0.40	0.77	24	732-1164-1-ND	4.14	3.45	2.94	700	1207.50	744325040
0.72	1.65	22	732-1165-1-ND	4.14	3.45	2.94	700	1207.50	744325072
1.20	2.00	20	732-1166-1-ND	4.14	3.45	2.94	700	1207.50	744325120
1.80	4.00	16	732-1167-1-ND	4.14	3.45	2.94	700	1207.50	744325180
2.40	5.00	14	732-1168-1-ND	4.14	3.45	2.94	700	1207.50	744325240
3.30	6.60	12	732-1169-1-ND	4.14	3.45	2.94	700	1207.50	744325330
4.20	8.00	11	732-1170-1-ND	4.14	3.45	2.94	700	1207.50	744325420
5.50	14.00	10	732-1171-1-ND	4.14	3.45	2.94	700	1207.50	744325550

* For Tape and Reel part number, change 1-ND to 2-ND.

Trilogy of Inductors

Design Guide for EMC Filters, Switch Mode Power Supplies and RF Circuits

Offers professionals or enthusiasts an enormous accumulation of EMC knowledge. With more than 400 pages, it shows all the relevant components, principles of filter circuits, and more than 150 applications. Consists of 3 main sections and is complimented by basic principles and an alphabetical keyword index. The components chapter is based on commercially available components and common interference suppression techniques are presented. The various components are examined in regard to their potential applications as well as their design advantages and disadvantages. The filter circuits chapter provides the reader with information on the basic principles of filtering, on various circuitry techniques, and on the layout of filter circuits. However, the heart of the Trilogy of Inductors is the applications chapters with over 150 industry specific practical examples. This chapter offers layout designs, simulation models, and circuitry examples for every industry.

732-1414-ND (744002).. **$100.80**

ABC of Transformers

Application and Design Handbook for Transformer Design

This application and design handbook is a practical guide for selecting suitable transformers for the respective application. The 100 page textbook delivers a detailed insight into the functionality of transformers. There is also an overview about the types of the transformers and their applications. Examples of applications and detailed procedure for an assortment of transformers are also included. Contained in the package is free simulation software developed by Würth Electronics.

This software will calculate a suitable transformer after the parameters are entered.

732-1415-ND (749002).. **$50.40**

Midcom WÜRTH ELEKTRONIK

WE-PD Series — Shielded Power SMD Inductors

RoHS COMPLIANT

Features: • Magnetically shielded version which results in a low leakage field • High storage capacity • Low self-losses • Highest possible current loading for SMD inductors **Specifications:** • Operating Temperature: -40°C ~ 125°C

Applications: • Switching regulators with low operating voltages (computer, laptop, mobile phones, pagers) • Integrated DC/DC converter • Perfectly suitable for switching regulators with extremely high efficiency • Graphics cards

Dim. in mm

Fig. 1

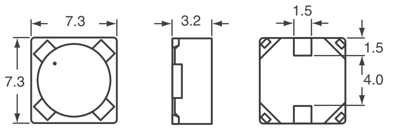

Fig. 2

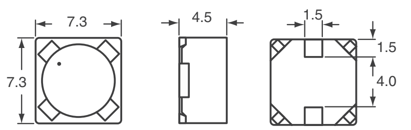

Fig. 3

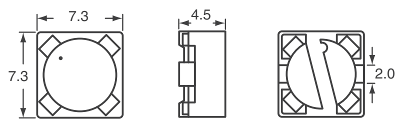

Fig. 4

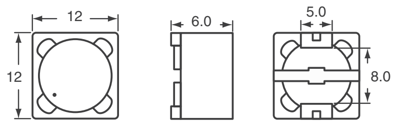

Fig. 5

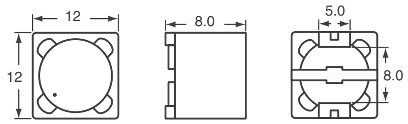

Fig. 6

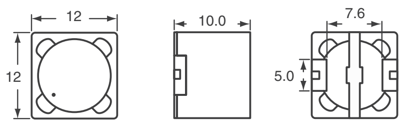

Inductance (µH)	DCR Max. (mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel* Qty.	Pricing	Wurth Part No.
S-Type — Fig. 1									
1.0	12.00	5.37	732-1172-1-ND	2.40	2.00	1.70	1,000	800.00	7447789001
2.2	20.00	4.02	732-1173-1-ND	2.40	2.00	1.70	1,000	800.00	7447789002
3.3	30.00	3.42	732-1174-1-ND	2.40	2.00	1.70	1,000	800.00	7447789003
4.7	35.00	2.90	732-1175-1-ND	2.40	2.00	1.70	1,000	800.00	7447789004
6.8	44.00	2.50	732-1176-1-ND	2.40	2.00	1.70	1,000	800.00	7447789006
10.0	72.00	1.83	732-1177-1-ND	2.40	2.00	1.70	1,000	800.00	744778910
12.0	98.00	1.73	732-1178-1-ND	2.40	2.00	1.70	1,000	800.00	7447789112
18.0	140.00	1.41	732-1179-1-ND	2.40	2.00	1.70	1,000	800.00	7447789118
22.0	190.00	1.38	732-1180-1-ND	2.40	2.00	1.70	1,000	800.00	7447789122
33.0	240.00	1.22	732-1181-1-ND	2.40	2.00	1.70	1,000	800.00	7447789133
39.0	320.00	1.03	732-1182-1-ND	2.40	2.00	1.70	1,000	800.00	7447789139
47.0	360.00	0.85	732-1183-1-ND	2.40	2.00	1.70	1,000	800.00	7447789147
56.0	470.00	0.84	732-1388-1-ND	2.40	2.00	1.70	1,000	800.00	7447789156
68.0	520.00	0.74	732-1184-1-ND	2.40	2.00	1.70	1,000	800.00	7447789168
82.0	690.00	0.69	732-1389-1-ND	2.40	2.00	1.70	1,000	800.00	7447789182
100.0	790.00	0.62	732-1185-1-ND	2.40	2.00	1.70	1,000	800.00	744778920
M-Type — Fig. 2									
1.0	11.00	5.30	732-1186-1-ND	2.52	2.10	1.79	1,000	840.00	7447779001
2.2	20.00	4.20	732-1187-1-ND	2.52	2.10	1.79	1,000	840.00	7447779002
3.3	30.00	3.30	732-1188-1-ND	2.52	2.10	1.79	1,000	840.00	7447779003
4.7	32.00	3.16	732-1189-1-ND	2.52	2.10	1.79	1,000	840.00	7447779004
6.8	35.00	2.91	732-1190-1-ND	2.52	2.10	1.79	1,000	840.00	7447779006
10.0	49.00	2.00	732-1191-1-ND	2.52	2.10	1.79	1,000	840.00	744777910
12.0	58.00	1.82	732-1192-1-ND	2.52	2.10	1.79	1,000	840.00	7447779112
18.0	91.00	1.50	732-1193-1-ND	2.52	2.10	1.79	1,000	840.00	7447779118
22.0	110.00	1.41	732-1194-1-ND	2.52	2.10	1.79	1,000	840.00	7447779122
33.0	170.00	1.13	732-1195-1-ND	2.52	2.10	1.79	1,000	840.00	7447779133
39.0	230.00	1.11	732-1196-1-ND	2.52	2.10	1.79	1,000	840.00	7447779139
47.0	260.00	1.03	732-1197-1-ND	2.52	2.10	1.79	1,000	840.00	7447779147
56.0	350.00	0.93	732-1390-1-ND	2.52	2.10	1.79	1,000	840.00	7447779156
68.0	380.00	0.87	732-1198-1-ND	2.52	2.10	1.79	1,000	840.00	7447779168
82.0	430.00	0.84	732-1202-1-ND	2.52	2.10	1.79	1,000	840.00	7447779182
100.0	610.00	0.79	732-1199-1-ND	2.52	2.10	1.79	1,000	840.00	744777920
M-Type — Fig. 3									
10.0	49.00	2.00	732-1200-1-ND	2.52	2.10	1.79	1,000	840.00	74477710
22.0	110.00	1.41	732-1201-1-ND	2.52	2.10	1.79	1,000	840.00	744777122
L-Type — Fig. 4									
1.50	6.00	10.50	732-1203-1-ND	3.06	2.55	2.17	500	637.50	744771001
2.20	8.00	10.00	732-1204-1-ND	3.06	2.55	2.17	500	637.50	744771002
3.50	8.00	9.25	732-1205-1-ND	3.06	2.55	2.17	500	637.50	744771003
4.70	11.00	8.25	732-1206-1-ND	3.06	2.55	2.17	500	637.50	744771004
8.20	20.00	6.25	732-1207-1-ND	3.06	2.55	2.17	500	637.50	744771008
10.0	25.00	4.09	732-1208-1-ND	3.06	2.55	2.17	500	637.50	74477110
12.0	27.00	3.91	732-1209-1-ND	3.06	2.55	2.17	500	637.50	744771112
18.0	34.00	3.48	732-1210-1-ND	3.06	2.55	2.17	500	637.50	744771118
22.0	36.00	3.37	732-1211-1-ND	3.06	2.55	2.17	500	637.50	744771122
33.0	57.00	2.68	732-1212-1-ND	3.06	2.55	2.17	500	637.50	744771133
39.0	68.00	2.49	732-1213-1-ND	3.06	2.55	2.17	500	637.50	744771139
47.0	75.00	2.21	732-1214-1-ND	3.06	2.55	2.17	500	637.50	744771147
56.0	110.00	2.01	732-1391-1-ND	3.06	2.55	2.17	500	637.50	744771156
68.0	120.00	1.91	732-1215-1-ND	3.06	2.55	2.17	500	637.50	744771168
82.0	140.00	1.65	732-1392-1-ND	3.06	2.55	2.17	500	637.50	744771182
100.0	160.00	1.53	732-1216-1-ND	3.06	2.55	2.17	500	637.50	74477120
XL-Type — Fig. 5									
1.2	7.00	12.00	732-1218-1-ND	3.12	2.60	2.21	500	650.00	74477001
1.5	6.00	10.00	732-1393-1-ND	3.12	2.60	2.21	500	650.00	744770015
2.4	12.00	10.10	732-1219-1-ND	3.12	2.60	2.21	500	650.00	74477002
3.5	14.00	8.90	732-1220-1-ND	3.12	2.60	2.21	500	650.00	74477003
4.7	16.00	8.50	732-1221-1-ND	3.12	2.60	2.21	500	650.00	74477004
6.1	18.00	7.60	732-1222-1-ND	3.12	2.60	2.21	500	650.00	74477006
10.0	22.00	6.20	732-1223-1-ND	3.12	2.60	2.21	500	650.00	74477010
12.0	24.00	5.90	732-1224-1-ND	3.12	2.60	2.21	500	650.00	744770112
15.0	27.00	5.00	732-1225-1-ND	3.12	2.60	2.21	500	650.00	744770115
18.0	39.00	4.20	732-1226-1-ND	3.12	2.60	2.21	500	650.00	744770118
22.0	43.00	4.10	732-1227-1-ND	3.12	2.60	2.21	500	650.00	744770122
27.0	46.00	3.70	732-1228-1-ND	3.12	2.60	2.21	500	650.00	744770127
33.0	64.00	3.20	732-1229-1-ND	3.12	2.60	2.21	500	650.00	744770133
39.0	72.90	3.00	732-1230-1-ND	3.12	2.60	2.21	500	650.00	744770139
47.0	100.00	2.70	732-1231-1-ND	3.12	2.60	2.21	500	650.00	744770147
56.0	110.00	2.40	732-1232-1-ND	3.12	2.60	2.21	500	650.00	744770156
68.0	140.00	2.30	732-1233-1-ND	3.12	2.60	2.21	500	650.00	744770168
82.0	160.00	2.25	732-1234-1-ND	3.12	2.60	2.21	500	650.00	744770182
100.0	220.00	2.20	732-1235-1-ND	3.12	2.60	2.21	500	650.00	74477020
XXL-Type — Fig. 6									
1.0	5.60	13.00	732-1236-1-ND	3.78	3.15	2.68	250	433.25	7447709001
2.2	6.00	11.50	732-1237-1-ND	3.78	3.15	2.68	250	433.25	7447709002
3.5	8.50	11.00	732-1238-1-ND	3.78	3.15	2.68	250	433.25	7447709003
4.7	11.00	9.30	732-1239-1-ND	3.78	3.15	2.68	250	433.25	7447709004
6.8	14.00	8.40	732-1240-1-ND	3.78	3.15	2.68	250	433.25	7447709006
10.0	21.00	7.10	732-1241-1-ND	3.78	3.15	2.68	250	433.25	7447709100
15.0	26.00	6.50	732-1242-1-ND	3.78	3.15	2.68	250	433.25	7447709150
22.0	28.00	5.30	732-1243-1-ND	3.78	3.15	2.68	250	433.25	7447709220
33.0	45.00	4.20	732-1244-1-ND	3.78	3.15	2.68	250	433.25	7447709330
39.0	56.00	4.10	732-1245-1-ND	3.78	3.15	2.68	250	433.25	7447709390
47.0	60.00	3.80	732-1246-1-ND	3.78	3.15	2.68	250	433.25	7447709470
68.0	88.50	3.20	732-1247-1-ND	3.78	3.15	2.68	250	433.25	7447709680
100.0	110.00	2.50	732-1248-1-ND	3.78	3.15	2.68	250	433.25	7447709101

* For Tape and Reel part number, change 1-ND to 2-ND.

732-1656-ND (744722) WE-TPC/PD/PD2 Series Kit (See Digi-Key website for contents of kit)................. **$126.00**
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Dim. in mm

Fig. 1

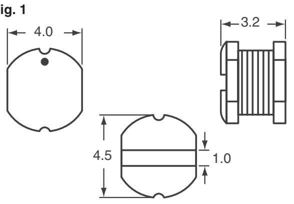

Fig. 2

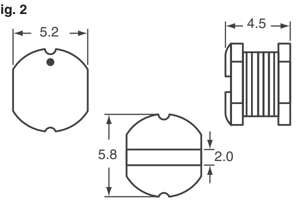

Fig. 3

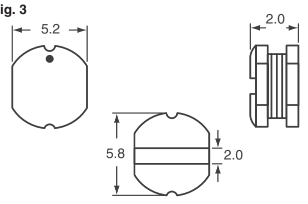

Fig. 4

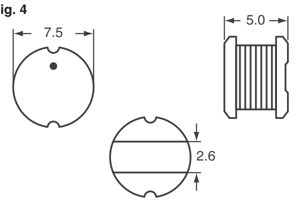

Fig. 5

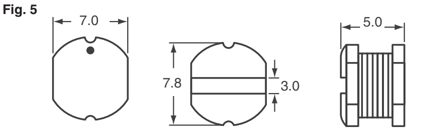

Fig. 6

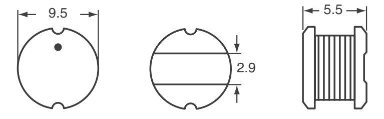

Fig. 7

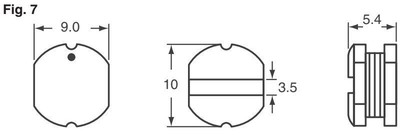

Inductance (µH)	DCR Max. (mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel* Qty.	Pricing	Wurth Part No.
S-Type — Fig. 1									
1.0	49.00	4.00	732-1249-1-ND	1.62	1.35	1.15	1,500	540.00/M	7447730
1.8	64.00	2.70	732-1394-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773018
2.2	71.00	2.50	732-1250-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773022
3.3	86.00	2.00	732-1251-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773033
4.7	110.00	1.82	732-1252-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773047
5.6	126.00	1.58	732-1395-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773056
6.8	131.00	1.54	732-1253-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773068
8.2	146.00	1.50	732-1254-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773082
10.0	182.00	1.45	732-1255-1-ND	1.62	1.35	1.15	1,500	540.00/M	74477310
12.0	210.00	1.28	732-1256-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773112
18.0	338.00	1.10	732-1257-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773118
22.0	370.00	1.00	732-1258-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773122
33.0	540.00	0.86	732-1259-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773133
39.0	587.00	0.77	732-1260-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773139
47.0	844.00	0.68	732-1261-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773147
56.0	937.00	0.64	732-1262-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773156
68.0	1117.00	0.56	732-1263-1-ND	1.62	1.35	1.15	1,500	540.00/M	744773168
M-Type — Fig. 2									
2.2	41.00	4.60	732-1267-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774022
2.7	45.00	4.00	732-1396-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774027
3.3	60.00	4.00	732-1265-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774033
4.7	71.00	3.00	732-1266-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774047
6.8	82.00	2.40	732-1268-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774068
10.0	100.00	2.20	732-1269-1-ND	1.50	1.25	1.07	1,500	500.00/M	74477410
12.0	110.00	2.00	732-1270-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774112
18.0	150.00	1.45	732-1271-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774118
22.0	180.00	1.28	732-1272-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774122
27.0	200.00	1.19	732-1273-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774127
33.0	230.00	1.09	732-1274-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774133
39.0	320.00	0.94	732-1275-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774139
47.0	370.00	0.86	732-1276-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774147
68.0	460.00	0.64	732-1277-1-ND	1.50	1.25	1.07	1,500	500.00/M	744774168
100.0	650.00	0.57	732-1278-1-ND	1.50	1.25	1.07	1,500	500.00/M	74477420
MS-Type — Fig. 3									
0.12	3.50	10.00	732-1307-1-ND	1.32	1.10	.94	2,000	440.00/M	74477450012
0.27	5.30	7.00	732-1308-1-ND	1.32	1.10	.94	2,000	440.00/M	74477450027
0.56	9.50	6.50	732-1309-1-ND	1.32	1.10	.94	2,000	440.00/M	74477450056
0.82	14.00	5.60	732-1310-1-ND	1.32	1.10	.94	2,000	440.00/M	74477450082
1.20	21.00	5.00	732-1311-1-ND	1.32	1.10	.94	2,000	440.00/M	7447745012
1.70	27.00	3.90	732-1312-1-ND	1.32	1.10	.94	2,000	440.00/M	7447745017
2.20	36.00	3.60	732-1313-1-ND	1.32	1.10	.94	2,000	440.00/M	7447745022
3.30	49.00	2.80	732-1314-1-ND	1.32	1.10	.94	2,000	440.00/M	7447745033
3.90	54.00	2.70	732-1315-1-ND	1.32	1.10	.94	2,000	440.00/M	7447745039
4.70	65.00	2.50	732-1316-1-ND	1.32	1.10	.94	2,000	440.00/M	7447745047
5.60	78.00	2.30	732-1317-1-ND	1.32	1.10	.94	2,000	440.00/M	7447745056
6.20	92.00	2.10	732-1318-1-ND	1.32	1.10	.94	2,000	440.00/M	7447745062
7.60	105.00	1.90	732-1319-1-ND	1.32	1.10	.94	2,000	440.00/M	7447745076
10.00	130.00	1.60	732-1320-1-ND	1.32	1.10	.94	2,000	440.00/M	7447745100
L-Type — Fig. 4									
1.50	20.00	6.00	732-1279-1-ND	1.74	1.45	1.24	1,000	580.00	744775015A
2.50	20.00	5.00	732-1280-1-ND	1.74	1.45	1.24	1,000	580.00	744775025A
3.30	20.00	4.60	732-1281-1-ND	1.74	1.45	1.24	1,000	580.00	744775033A
4.70	30.00	3.70	732-1282-1-ND	1.74	1.45	1.24	1,000	580.00	744775047A
6.80	40.00	3.20	732-1283-1-ND	1.74	1.45	1.24	1,000	580.00	744775068A
L-Type — Fig. 5									
10.0	70.00	2.30	732-1284-1-ND	1.74	1.45	1.24	500	362.50	74477510
12.0	80.00	2.18	732-1285-1-ND	1.74	1.45	1.24	500	362.50	744775112
18.0	100.00	1.89	732-1286-1-ND	1.74	1.45	1.24	500	362.50	744775118
22.0	110.00	1.76	732-1287-1-ND	1.74	1.45	1.24	500	362.50	744775122
33.0	130.00	1.35	732-1288-1-ND	1.74	1.45	1.24	500	362.50	744775133
39.0	160.00	1.25	732-1289-1-ND	1.74	1.45	1.24	500	362.50	744775139
47.0	180.00	1.17	732-1290-1-ND	1.74	1.45	1.24	500	362.50	744775147
68.0	280.00	0.99	732-1291-1-ND	1.74	1.45	1.24	500	362.50	744775168
100.0	430.00	0.77	732-1292-1-ND	1.74	1.45	1.24	500	362.50	74477520
XL-Type — Fig. 6									
1.2	20.00	5.50	732-1293-1-ND	1.98	1.65	1.41	800	633.60	744776012A
2.2	20.00	5.40	732-1294-1-ND	1.98	1.65	1.41	800	633.60	744776022A
3.3	20.00	5.00	732-1295-1-ND	1.98	1.65	1.41	800	633.60	744776033A
4.7	40.00	4.00	732-1296-1-ND	1.98	1.65	1.41	800	633.60	744776047A
6.8	40.00	3.40	732-1297-1-ND	1.98	1.65	1.41	800	633.60	744776068A
XL-Type — Fig. 7									
10.0	60.00	2.98	732-1298-1-ND	1.98	1.65	1.41	500	412.50	74477610
12.0	70.00	2.72	732-1299-1-ND	1.98	1.65	1.41	500	412.50	744776112
18.0	90.00	2.36	732-1300-1-ND	1.98	1.65	1.41	500	412.50	744776118
22.0	100.00	2.04	732-1301-1-ND	1.98	1.65	1.41	500	412.50	744776122
27.0	110.00	1.95	732-1397-1-ND	1.98	1.65	1.41	500	412.50	744776127
33.0	120.00	1.78	732-1302-1-ND	1.98	1.65	1.41	500	412.50	744776133
39.0	140.00	1.62	732-1303-1-ND	1.98	1.65	1.41	500	412.50	744776139
47.0	170.00	1.45	732-1304-1-ND	1.98	1.65	1.41	500	412.50	744776147
56.0	190.00	1.36	732-1398-1-ND	1.98	1.65	1.41	500	412.50	744776156
68.0	220.00	1.19	732-1305-1-ND	1.98	1.65	1.41	500	412.50	744776168
82.0	250.00	1.11	732-1399-1-ND	1.98	1.65	1.41	500	412.50	744776182
100.0	350.00	1.02	732-1306-1-ND	1.98	1.65	1.41	500	412.50	74477620

* For Tape and Reel part number, change 1-ND to 2-ND.

732-1656-ND (744722)	WE-TPC/PD/PD2 Series Kit (See Digi-Key website for contents of kit).................	**$126.00**
732-1645-ND (744720)	WE-PD/PD2/PD3/PD4 Series Kit (See Digi-Key website for contents of kit)............	**$126.00**

WE-PD3 Series — Shielded SMD Power Inductors

Features: • Magnetically shielded version which results in a low leakage field • Extremely low profile • Low inherent losses • High storage capacity
Specifications: • Operating Temperature: -40°C ~ 125°C • Operating Frequencies: Up to 10MHz • Test Frequency: L = 1kHz
Applications: • EMI filter • Perfectly suitable for switching regulators with extremely high efficiency

Dim. in mm

Fig. 1

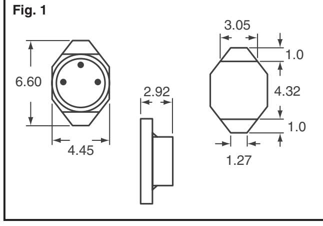

Fig. 2

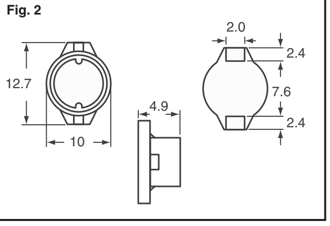

Inductance (µH)	DCR Max. (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel* Qty.	Pricing	Wurth Part No.
S-Type — Fig. 1									
1.0	0.040	3.0	732-1402-1-ND	1.38	1.15	.98	500	287.50	7445101
2.2	0.050	1.80	732-1403-1-ND	1.38	1.15	.98	500	287.50	74451022
3.3	0.055	1.60	732-1404-1-ND	1.38	1.15	.98	500	287.50	74451033
4.7	0.060	1.40	732-1405-1-ND	1.38	1.15	.98	500	287.50	74451047
6.8	0.065	1.20	732-1406-1-ND	1.38	1.15	.98	500	287.50	74451068
10.0	0.075	1.00	732-1407-1-ND	1.38	1.15	.98	500	287.50	7445110
15.0	0.090	0.80	732-1408-1-ND	1.38	1.15	.98	500	287.50	74451115
22.0	0.110	0.70	732-1409-1-ND	1.38	1.15	.98	500	287.50	74451122
33.0	0.190	0.60	732-1410-1-ND	1.38	1.15	.98	500	287.50	74451133
47.0	0.230	0.50	732-1411-1-ND	1.38	1.15	.98	500	287.50	74451147
L-Type — Fig. 2									
4.7	0.040	2.70	732-1412-1-ND	1.38	1.15	.98	600	345.00	7445404
6.8	0.055	2.20	732-1413-1-ND	1.38	1.15	.98	600	345.00	74454068

* For Tape and Reel part number, change 1-ND to 2-ND.

Midcom WÜRTH ELEKTRONIK

WE-PD4 Series — SMD Power Inductors

Features: • Compact Size • Industry standard size • Low-loss ferrite core • High storage capacity

Specifications: • Operating Temperature: -40°C ~ 125°C • Application Frequency Range: Up to 10MHz • Test Frequency: L = 100kHz

Applications: • Noise suppression • Perfectly suitable for switching regulators with extremely high efficiency

Dim. in mm

Fig. 1

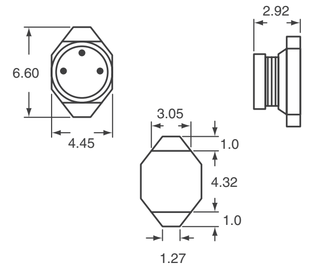

Fig. 2

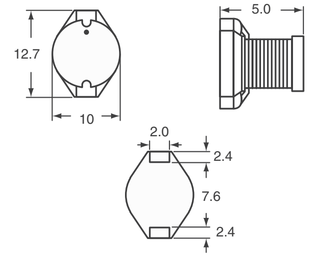

Fig. 3

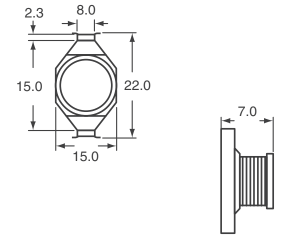

Fig. 4

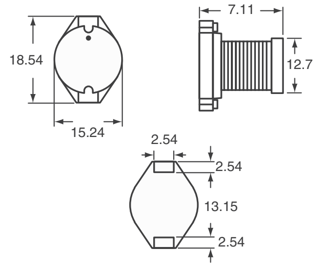

Inductance (µH)	Max. DCR (mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel* Qty.	Pricing	Wurth Part No.
S-Type — Fig. 1									
1.0	50.0	2.90	732-1329-1-ND	1.32	1.10	.94	500	275.00	7445501
1.5	50.0	2.80	732-1330-1-ND	1.32	1.10	.94	500	275.00	74455015
2.2	70.0	2.40	732-1331-1-ND	1.32	1.10	.94	500	275.00	74455022
3.3	80.0	2.00	732-1332-1-ND	1.32	1.10	.94	500	275.00	74455033
4.7	90.0	1.50	732-1333-1-ND	1.32	1.10	.94	500	275.00	74455047
6.8	130.0	1.40	732-1334-1-ND	1.32	1.10	.94	500	275.00	74455068
10	160.0	1.20	732-1335-1-ND	1.32	1.10	.94	500	275.00	7445510
15	230.0	1.10	732-1336-1-ND	1.32	1.10	.94	500	275.00	74455115
22	370.0	0.80	732-1337-1-ND	1.32	1.10	.94	500	275.00	74455122
33	510.0	0.60	732-1338-1-ND	1.32	1.10	.94	500	275.00	74455133
47	640.0	0.50	732-1339-1-ND	1.32	1.10	.94	500	275.00	74455147
68	860.0	0.40	732-1340-1-ND	1.32	1.10	.94	500	275.00	74455168
100	1270.0	0.30	732-1341-1-ND	1.32	1.10	.94	500	275.00	7445520
L-Type — Fig. 2									
1.0	7.0	8.60	732-1342-1-ND	1.38	1.15	.98	600	345.00	7445601
1.5	9.0	7.20	732-1343-1-ND	1.38	1.15	.98	600	345.00	74456015
2.2	11.0	6.50	732-1344-1-ND	1.38	1.15	.98	600	345.00	74456022
3.3	15.0	5.30	732-1345-1-ND	1.38	1.15	.98	600	345.00	74456033
4.7	19.0	5.00	732-1346-1-ND	1.38	1.15	.98	600	345.00	74456047
5.6	32.0	4.00	732-1347-1-ND	1.38	1.15	.98	600	345.00	74456056
6.8	34.0	3.80	732-1348-1-ND	1.38	1.15	.98	600	345.00	74456068
8.2	40.0	3.20	732-1349-1-ND	1.38	1.15	.98	600	345.00	74456082
10.0	45.0	3.30	732-1350-1-ND	1.38	1.15	.98	600	345.00	7445610
15.0	60.0	2.90	732-1351-1-ND	1.38	1.15	.98	600	345.00	74456115
22.0	95.0	2.60	732-1352-1-ND	1.38	1.15	.98	600	345.00	74456122
33.0	120.0	2.30	732-1353-1-ND	1.38	1.15	.98	600	345.00	74456133
47.0	190.0	1.80	732-1354-1-ND	1.38	1.15	.98	600	345.00	74456147
68.0	240.0	1.60	732-1355-1-ND	1.38	1.15	.98	600	345.00	74456168
100.0	330.0	1.40	732-1356-1-ND	1.38	1.15	.98	600	345.00	7445620
220.0	780.0	0.90	732-1400-1-ND	1.38	1.15	.98	600	345.00	74456222
470.0	1700.0	0.60	732-1401-1-ND	1.38	1.15	.98	600	345.00	74456247

Inductance (µH)	Max. DCR (mΩ)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel* Qty.	Pricing	Wurth Part No.
XL-Type — Fig. 3									
1.0	3.6	15.0	732-1357-1-ND	2.10	1.75	1.49	250	240.75	74457010
1.2	3.8	15.0	732-1358-1-ND	2.10	1.75	1.49	250	240.75	74457012
1.8	5.4	13.0	732-1359-1-ND	2.10	1.75	1.49	250	240.75	74457018
2.7	8.4	10.0	732-1360-1-ND	2.10	1.75	1.49	250	240.75	74457027
3.3	9.2	9.0	732-1361-1-ND	2.10	1.75	1.49	250	240.75	74457033
4.7	11.0	8.5	732-1362-1-ND	2.10	1.75	1.49	250	240.75	74457047
5.6	15.0	7.8	732-1363-1-ND	2.10	1.75	1.49	250	240.75	74457056
6.8	17.0	7.5	732-1364-1-ND	2.10	1.75	1.49	250	240.75	74457068
8.2	19.0	7.0	732-1365-1-ND	2.10	1.75	1.49	250	240.75	74457082
10.0	21.0	6.5	732-1366-1-ND	2.10	1.75	1.49	250	240.75	7445710
12.0	28.0	5.5	732-1367-1-ND	2.10	1.75	1.49	250	240.75	74457112
15.0	35.0	5.0	732-1368-1-ND	2.10	1.75	1.49	250	240.75	74457115
18.0	40.0	4.6	732-1369-1-ND	2.10	1.75	1.49	250	240.75	74457118
22.0	47.0	4.0	732-1370-1-ND	2.10	1.75	1.49	250	240.75	74457122
33.0	70.0	3.4	732-1371-1-ND	2.10	1.75	1.49	250	240.75	74457133
47.0	109.0	2.8	732-1372-1-ND	2.10	1.75	1.49	250	240.75	74457147
56.0	116.0	2.6	732-1373-1-ND	2.10	1.75	1.49	250	240.75	74457156
68.0	134.0	2.4	732-1374-1-ND	2.10	1.75	1.49	250	240.75	74457168
82.0	173.0	2.2	732-1375-1-ND	2.10	1.75	1.49	250	240.75	74457182
100.0	202.0	2.0	732-1376-1-ND	2.10	1.75	1.49	250	240.75	7445720
X-Type — Fig. 4									
1.0	9.0	8.60	732-1377-1-ND	1.44	1.20	1.02	300	198.00	74458001
2.2	14.0	7.10	732-1378-1-ND	1.44	1.20	1.02	300	198.00	74458002
3.3	18.0	6.20	732-1379-1-ND	1.44	1.20	1.02	300	198.00	74458003
5.6	20.0	5.30	732-1380-1-ND	1.44	1.20	1.02	300	198.00	74458005
10	31.0	4.30	732-1381-1-ND	1.44	1.20	1.02	300	198.00	74458010
15	36.0	4.00	732-1382-1-ND	1.44	1.20	1.02	300	198.00	74458115
22	47.0	3.50	732-1383-1-ND	1.44	1.20	1.02	300	198.00	74458122
33	66.0	3.00	732-1384-1-ND	1.44	1.20	1.02	300	198.00	74458133
47	86.0	2.60	732-1385-1-ND	1.44	1.20	1.02	300	198.00	74458147
68	130.0	2.30	732-1386-1-ND	1.44	1.20	1.02	300	198.00	74458168
100	190.0	1.80	732-1387-1-ND	1.44	1.20	1.02	300	198.00	7445820

* For Tape and Reel part number, change 1-ND to 2-ND.

732-1645-ND (744720) WE-PD/PD2/PD3/PD4 Series Kit (See Digi-Key website for contents of kit)... **$126.00**

AVX

High-Q RF SMD Inductors

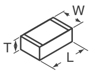

Series	Dimensions - (mm) L	W	T
0402	1.0	0.58	0.35
0603	1.6	0.81	0.61

The Accu-L® SMD Inductor is based on thin-film multilayer technology. This technology provides a level of control on the electrical and physical characteristics of the component which gives consistent characteristics within a lot and lot-to-lot. The original design provides small size, excellent high-frequency performance and rugged construction for reliable automatic assembly. The Accu-L Inductor is particularly suited for the telecommunications industry where there is a continuing trend towards miniaturization and increasing frequencies. The Accu-L Inductor meets both the performance and tolerance requirements of present cellular frequencies 450MHz and 900MHz and of future frequencies, such as 1700MHz, 1900MHz and 2400MHz.

Features:
• High-Q • RF Power Capability • High SRF • Low DC Resistance • Ultra-Tight Tolerance on Inductance • Low Profile • Rugged Construction

Operating / Storage Temperature: -55°C ~ 125°C

Inductance (nH)	Tolerance ± (nH)	Q Typical	SRF Min. (GHz)	R_{DC} Max. (Ω)	I_{DC} Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape & Reel† Qty.	Pricing	AVX Part No.
0402 Series												
.82	0.1	40	20	0.06	500	478-4191-1-ND	5.10	42.00	165.00	5,000	174.00/M	L0402R82BHNTR
1.0	0.1	30	20	0.15	500	478-4192-1-ND	5.10	42.00	165.00	5,000	174.00/M	L04021R0BHNTR
1.2	0.1	30	20	0.20	400	478-4193-1-ND	5.10	42.00	165.00	5,000	174.00/M	L04021R2BHNTR
1.5	0.1	25	18	0.20	400	478-4194-1-ND	5.10	42.00	165.00	5,000	174.00/M	L04021R5BHNTR
1.8	0.1	20	16	0.20	400	478-4195-1-ND	5.10	42.00	165.00	5,000	174.00/M	L04021R8BHNTR
2.2	0.1	20	15	0.20	400	478-4196-1-ND	5.10	42.00	165.00	5,000	174.00/M	L04022R2BHNTR
2.7	0.1	20	9.5	0.25	250	478-4197-1-ND	6.80	56.00	220.00	5,000	232.00/M	L04022R7BHNTR
3.3	0.1	20	8.5	0.40	250	478-4198-1-ND	6.80	56.00	220.00	5,000	232.00/M	L04023R3BHNTR
3.9	0.1	20	8	0.45	250	478-4199-1-ND	6.80	56.00	220.00	5,000	232.00/M	L04023R9BHNTR
4.7	0.1	20	7.5	0.45	250	478-4200-1-ND	6.80	56.00	220.00	5,000	232.00/M	L04024R7BHNTR
5.6	0.1	20	7	0.65	200	478-4201-1-ND	6.80	56.00	220.00	5,000	232.00/M	L04025R6BHNTR
6.8	0.1	15	6.5	0.90	200	478-4202-1-ND	6.80	56.00	220.00	5,000	232.00/M	L04026R8BHNTR
0603 Series												
1.2	0.2	49	10	0.04	1,000	478-4324-1-ND	6.38	52.50	206.25	3,000	225.00/M	L06031R2CGSTR
1.5	0.2	26	10	0.06	1,000	478-4325-1-ND	6.38	52.50	206.25	3,000	225.00/M	L06031R5CGSTR
1.8	0.2	20	10	0.07	1,000	478-4326-1-ND	6.38	52.50	206.25	3,000	225.00/M	L06031R8CGSTR
2.2	0.2	20	10	0.08	1,000	478-4328-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06032R2CGSTR
2.7	0.2	21	9	0.08	750	478-4329-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06032R7CGSTR
3.3	0.2	24	8.4	0.08	750	478-4330-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06033R3CGSTR
3.9	0.2	25	6.5	0.12	500	478-4331-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06033R9CGSTR
4.7	0.2	23	5.5	0.15	500	478-4332-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06034R7CGSTR
5.6	0.2	26	5	0.25	300	478-4333-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06035R6CGSTR
6.8	0.2	23	4.5	0.30	300	478-4334-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06036R8CGSTR
8.2	0.2	23	3.8	0.35	300	478-4335-1-ND	6.80	56.00	220.00	3,000	240.00/M	L06038R2CGSTR
10	2%	28	3.5	0.45	300	478-4336-1-ND	7.65	63.00	247.50	3,000	270.00/M	L0603100GGSTR
12	2%	28	3	0.50	300	478-4337-1-ND	7.65	63.00	247.50	3,000	270.00/M	L0603120GGSTR
15	2%	28	2.5	0.60	300	478-4338-1-ND	7.65	63.00	247.50	3,000	270.00/M	L0603150GGSTR

† For Tape and Reel part number, change 1-ND to 2-ND.

478-2948-ND ***ACCU-L 0402KIT01 Inductor Kit*** 20 each of 12 values (0402 Series)........ **$206.25**
478-4323-ND ***ACCU-L 0603KIT02 Inductor Kit*** 20 each of 14 values (0603 Series)........ **$221.93**

TDK Inductors — MLK, MLF, GLF, MLG and MLZ Series

Fig. 1

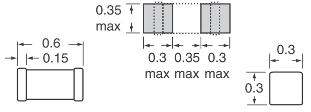

Fig. 2

Dim. in mm

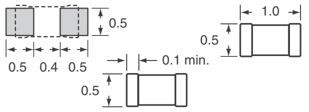

Fig. 3

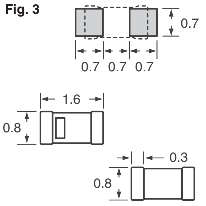

Fig. 4

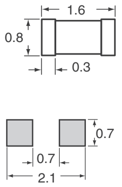

Fig. 5

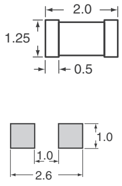

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel† Pricing 15,000	TDK Part No.
							1	10	100		
Fig. 1 — MLK0603 (0201)											
1.0	±0.3nH	100	0.20	300	12.0	445-1570-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N0S
1.2	±0.3nH	100	0.22	300	11.0	445-1571-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N2S
1.5	±0.3nH	100	0.24	300	10.0	445-1572-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N5S
1.8	±0.3nH	100	0.27	300	10.0	445-1573-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N8S
2.2	±0.3nH	100	0.30	300	9.0	445-1574-1-ND	.18	1.47	11.76	51.00/M	MLK0603L2N2S
2.7	±0.3nH	100	0.35	300	8.5	445-1575-1-ND	.18	1.47	11.76	51.00/M	MLK0603L2N7S
3.3	±0.3nH	100	0.40	200	8.0	445-1576-1-ND	.18	1.47	11.76	51.00/M	MLK0603L3N3S
3.9	±0.3nH	100	0.45	200	8.0	445-1577-1-ND	.18	1.47	11.76	51.00/M	MLK0603L3N9S
4.7	±0.3nH	100	0.50	200	7.5	445-1578-1-ND	.18	1.47	11.76	51.00/M	MLK0603L4N7S
5.6	±0.3nH	100	0.60	200	6.5	445-1579-1-ND	.18	1.47	11.76	51.00/M	MLK0603L5N6S
6.8	±5%	100	0.65	200	6.0	445-1580-1-ND	.18	1.47	11.76	51.00/M	MLK0603L6N8J
8.2	±5%	100	0.70	200	6.0	445-1581-1-ND	.18	1.47	11.76	51.00/M	MLK0603L8N2J
10	±5%	100	0.80	200	5.5	445-1582-1-ND	.18	1.47	11.76	51.00/M	MLK0603L10NJ
12	±5%	100	1.00	150	5.0	445-1583-1-ND	.18	1.47	11.76	51.00/M	MLK0603L12NJ
15	±5%	100	1.10	150	4.5	445-1584-1-ND	.18	1.47	11.76	51.00/M	MLK0603L15NJ
18	±5%	100	1.30	100	4.0	445-1585-1-ND	.18	1.47	11.76	51.00/M	MLK0603L18NJ
22	±5%	100	1.60	100	3.5	445-1586-1-ND	.18	1.47	11.76	51.00/M	MLK0603L22NJ

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel† Pricing 10,000	TDK Part No.
							1	10	100		
Fig. 2 — MLK1005 (0402)											
1.2	±0.3nH	100	0.12	500	11	445-1456-1-ND	.15	1.22	9.72	42.53/M	MLK1005S1N2S
1.5	±0.3nH	100	0.15	500	9.5	445-1457-1-ND	.15	1.22	9.72	42.53/M	MLK1005S1N5S
1.8	±0.3nH	100	0.17	500	8.5	445-1458-1-ND	.15	1.22	9.72	42.53/M	MLK1005S1N8S
2.2	±0.3nH	100	0.18	500	8	445-1459-1-ND	.15	1.22	9.72	42.53/M	MLK1005S2N2S
2.7	±0.3nH	100	0.20	500	7.5	445-1460-1-ND	.15	1.22	9.72	42.53/M	MLK1005S2N7S
3.3	±0.3nH	100	0.22	500	7	445-1461-1-ND	.15	1.22	9.72	42.53/M	MLK1005S3N3S
3.9	±0.3nH	100	0.25	400	6.5	445-1462-1-ND	.15	1.22	9.72	42.53/M	MLK1005S3N9S
4.7	±0.3nH	100	0.28	400	6	445-1463-1-ND	.15	1.22	9.72	42.53/M	MLK1005S4N7S
5.6	±0.5nH	100	0.30	400	5.7	445-1464-1-ND	.15	1.22	9.72	42.53/M	MLK1005S5N6D
6.8	±0.5nH	100	0.35	400	5.5	445-1465-1-ND	.15	1.22	9.72	42.53/M	MLK1005S6N8D
8.2	±0.5nH	100	0.38	350	5	445-1466-1-ND	.15	1.22	9.72	42.53/M	MLK1005S8N2D
10	±5%	100	0.42	350	4.7	445-1467-1-ND	.15	1.22	9.72	42.53/M	MLK1005S10NJ
12	±5%	100	0.47	350	4.3	445-1468-1-ND	.15	1.22	9.72	42.53/M	MLK1005S12NJ
15	±5%	100	0.50	300	4	445-1469-1-ND	.15	1.22	9.72	42.53/M	MLK1005S15NJ
18	±5%	100	0.60	250	3.7	445-1470-1-ND	.15	1.22	9.72	42.53/M	MLK1005S18NJ
22	±5%	100	0.70	200	3.5	445-1471-1-ND	.15	1.22	9.72	42.53/M	MLK1005S22NJ
27	±5%	100	0.80	200	3	445-1472-1-ND	.15	1.22	9.72	42.53/M	MLK1005S27NJ
33	±5%	100	0.90	200	2.5	445-1473-1-ND	.15	1.22	9.72	42.53/M	MLK1005S33NJ
47	±5%	100	1.20	200	1.8	445-1475-1-ND	.15	1.22	9.72	42.53/M	MLK1005S47NJ
56	±5%	100	1.30	200	1.5	445-1476-1-ND	.15	1.22	9.72	42.53/M	MLK1005S56NJ
68	±5%	100	1.50	150	1.4	445-1477-1-ND	.15	1.22	9.72	42.53/M	MLK1005S68NJ
82	±5%	100	1.80	150	1.3	445-1478-1-ND	.15	1.22	9.72	42.53/M	MLK1005S82NJ
100	±5%	100	2.20	100	1.1	445-1479-1-ND	.15	1.22	9.72	42.53/M	MLK1005SR10J
NEW! Fig. 2 — MLF1005 (0402) NEW!											
0.1	±10%	25	0.60	25	0.45	445-3502-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR10KT
0.12	±10%	25	0.70	25	0.40	445-3503-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR12KT
0.15	±10%	25	0.80	25	0.35	445-3504-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR15KT
0.18	±10%	25	0.90	25	0.32	445-3505-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR18KT
0.22	±10%	25	1.10	25	0.29	445-3506-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR22KT
0.27	±10%	25	1.30	25	0.26	445-3507-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR27KT
0.33	±10%	25	1.50	25	0.23	445-3508-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR33KT
0.39	±10%	10	0.60	10	0.21	445-3509-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR39KT
0.47	±10%	10	0.65	10	0.19	445-3510-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR47KT
0.56	±10%	10	0.70	10	0.17	445-3511-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR56KT
0.68	±10%	10	0.80	10	0.15	445-3512-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR68KT
0.82	±10%	10	0.90	10	0.13	445-3513-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR82KT
1.0	±10%	10	1.00	10	0.12	445-3514-1-ND	.60	5.00	40.00	175.00/M	MLF1005A1R0KT
1.2	±10%	10	1.10	10	0.11	445-3515-1-ND	.60	5.00	40.00	175.00/M	MLF1005A1R2KT
1.5	±10%	10	1.30	10	0.10	445-3516-1-ND	.60	5.00	40.00	175.00/M	MLF1005A1R5KT
1.8	±10%	10	1.55	10	0.09	445-3517-1-ND	.60	5.00	40.00	175.00/M	MLF1005A1R8KT
2.2	±10%	10	1.80	10	0.08	445-3518-1-ND	.60	5.00	40.00	175.00/M	MLF1005A2R2KT

MLK Series: Supports operating frequency bands of up to 12GHz with nominal inductance values from 1 ~ 100nH. Provides high Q characteristics. Advanced monolithic structure is formed using a lamination and firing process with high-frequency ceramic and conductive materials. Because the part is non-polarized, it can be used in bulk cassette loaders. **Operating Temperature:** -25°C ~ 85°C

MLF Series - Magnetic Shielded Inductor: TDK's MLF multi-layer chip inductor combines high performance with the most compact design available today. MLF inductor's multi-layer technology utilizes ferrite paste and electric conductor paste layered in a monolithic structure. Sintering of ferrite and electric conductors forms a perfect closed magnetic circuit and a magnetic shield. Magnetic shielding is ideally suited for high density circuit application in disk drives, personal computers, measuring equipment, and telephone equipment. **Operating Temperature:** -25°C ~ 85°C

GLF Series: Features: • Delivers low Rdc with high Idc • Construction supports bulk mounting **Applications:** Perfect coil for step-up circuits, step-down circuits and decoupling circuits for each set power supply circuit • Portable audio visual devices • Mobile communication devices • Information devices *(GLF1608)* • Amusement devices *(GLF1608)* **Operating Temperature:** -40ºC ~ 105ºC

MLG Series: Supports operating frequency bands of up to 10GHz with nominal inductance values from 0.6 ~ 390nH. Provides high Q characteristics. Advanced monolithic structure is formed using a lamination and firing process with high-frequency ceramic and conductive materials. **Operating Temperature:** *(MLG1005S, MLG0603S and MLG0603Q)* -55ºC ~ 125ºC; *(MLG1608)* -25°C ~ 85°C

MLZ Series: This is a multi-layered inductor primarily designed for choking power lines. With one of the best resistance performance in the industry, this product delivers a significantly lower DC resistance value compared to our previous products. This reduces the loss at the power supply and contributes to power conservation. **Applications**: Choke coil to use for DVC, DSC, MD, power supply circuit such as various module. **Operating Temperature:** -55°C ~ 125°C

Inductance (μH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel† Pricing 4,000	TDK Part No.
							1	10	100		
Fig. 4 — MLF1608 (0603)											
0.047	±20%	50	0.20	200	600	445-1000-1-ND	.41	3.40	27.20	119.00/M	MLF1608D47NM
0.068	±20%	50	0.30	200	550	445-1001-1-ND	.41	3.40	27.20	119.00/M	MLF1608D68NM
0.082	±20%	50	0.30	200	500	445-1002-1-ND	.41	3.40	27.20	119.00/M	MLF1608D82NM
0.1	±10%	25	0.35	200	450	445-1003-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR10K
0.12	±10%	25	0.40	200	400	445-1004-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR12K
0.15	±10%	25	0.45	200	350	445-1005-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR15K
0.18	±10%	25	0.50	150	320	445-1006-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR18K
0.22	±10%	25	0.55	150	290	445-1007-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR22K
0.27	±10%	25	0.60	150	260	445-1008-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR27K
0.33	±10%	25	0.75	100	230	445-1009-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR33K
0.39	±10%	25	0.85	100	210	445-1010-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR39K
0.47	±10%	25	0.95	100	190	445-1011-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR47K
0.56	±10%	25	1.05	100	170	445-1012-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR56K
0.68	±10%	25	1.25	70	150	445-1013-1-ND	.41	3.45	27.56	120.58/M	MLF1608DR68K
1.2	±10%	10	0.65	50	110	445-1014-1-ND	.41	3.40	27.20	119.00/M	MLF1608A1R2K
1.5	±10%	10	0.70	50	100	445-1015-1-ND	.41	3.40	27.20	119.00/M	MLF1608A1R5K
1.8	±10%	10	0.85	50	90	445-1016-1-ND	.41	3.40	27.20	119.00/M	MLF1608A1R8K
2.2	±10%	10	1.00	30	80	445-1017-1-ND	.41	3.40	27.20	119.00/M	MLF1608A2R2K
2.7	±10%	10	1.15	30	70	445-1018-1-ND	.41	3.40	27.20	119.00/M	MLF1608A2R7K
3.3	±10%	10	1.30	30	65	445-1019-1-ND	.41	3.40	27.20	119.00/M	MLF1608A3R3K
4.7	±10%	10	1.60	30	55	445-1021-1-ND	.41	3.40	27.20	119.00/M	MLF1608A4R7K
5.6	±10%	4	1.10	15	45	445-1022-1-ND	.41	3.40	27.20	119.00/M	MLF1608E5R6K
6.8	±10%	4	1.30	15	40	445-1023-1-ND	.41	3.40	27.20	119.00/M	MLF1608E6R8K
8.2	±10%	4	1.50	10	35	445-1024-1-ND	.41	3.40	27.20	119.00/M	MLF1608E8R2K
10	±10%	2	1.70	10	30	445-1025-1-ND	.41	3.40	27.20	119.00/M	MLF1608E100K
15	±10%	1	1.50	2	22	445-1027-1-ND	.41	3.40	27.20	119.00/M	MLF1608C150K
18	±10%	1	1.60	2	20	445-1028-1-ND	.41	3.40	27.20	119.00/M	MLF1608C180K
22	±10%	1	1.70	2	18	445-1029-1-ND	.41	3.40	27.20	119.00/M	MLF1608C220K
27	±10%	1	1.80	2	15	445-1030-1-ND	.41	3.40	27.20	119.00/M	MLF1608C270K
33	±10%	1	2.20	2	10	445-1031-1-ND	.41	3.40	27.20	119.00/M	MLF1608C330K

Inductance (μH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel† Pricing 2,000	TDK Part No.
							1	10	100		
Fig. 5 — MLF2012 (0805)											
0.047	±20%	50	0.10	300	550	445-1032-1-ND	.41	3.40	27.20	119.00/M	MLF2012D47NM
0.082	±20%	50	0.15	300	450	445-1034-1-ND	.41	3.40	27.20	119.00/M	MLF2012D82NM
0.1	±10%	25	0.15	300	400	445-1035-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR10K
0.12	±10%	25	0.20	300	360	445-1036-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR12K
0.15	±10%	25	0.20	300	320	445-1037-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR15K
0.22	±10%	25	0.30	250	250	445-1039-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR22K
0.27	±10%	25	0.35	250	220	445-1040-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR27K
0.33	±10%	25	0.40	250	200	445-1041-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR33K
0.47	±10%	25	0.50	200	160	445-1043-1-ND	.39	3.28	26.24	114.80/M	MLF2012DR47K
0.56	±10%	25	0.55	150	150	445-1044-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR56K
0.68	±10%	25	0.60	150	140	445-1045-1-ND	.39	3.28	26.24	114.80/M	MLF2012DR68K
0.82	±10%	25	0.65	150	130	445-1046-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR82K
1	±10%	10	0.30	80	120	445-1047-1-ND	.39	3.28	26.24	114.80/M	MLF2012A1R0K
1.2	±10%	10	0.35	80	110	445-1048-1-ND	.41	3.40	27.20	119.00/M	MLF2012A1R2K
1.8	±10%	10	0.45	80	90	445-1050-1-ND	.41	3.40	27.20	119.00/M	MLF2012A1R8K
2.2	±10%	10	0.50	50	80	445-1051-1-ND	.41	3.40	27.20	119.00/M	MLF2012A2R2K
2.7	±10%	10	0.55	50	70	445-1052-1-ND	.41	3.40	27.20	119.00/M	MLF2012A2R7K
3.3	±10%	10	0.60	50	60	445-1053-1-ND	.41	3.40	27.20	119.00/M	MLF2012A3R3K
4.7	±10%	10	0.70	30	50	445-1055-1-ND	.39	3.28	26.24	114.80/M	MLF2012A4R7K
5.6	±10%	4	0.60	15	45	445-1056-1-ND	.41	3.40	27.20	119.00/M	MLF2012E5R6K
6.8	±10%	4	0.65	15	40	445-1057-1-ND	.41	3.40	27.20	119.00/M	MLF2012E6R8K
10	±10%	2	0.80	15	30	445-1059-1-ND	.39	3.28	26.24	114.80/M	MLF2012E100K
12	±10%	2	0.90	15	25	445-1060-1-ND	.41	3.40	27.20	119.00/M	MLF2012E120K
15	±10%	1	0.70	5	22	445-1061-1-ND	.41	3.40	27.20	119.00/M	MLF2012C150K
18	±10%	1	0.80	5	20	445-1062-1-ND	.41	3.40	27.20	119.00/M	MLF2012C180K
22	±10%	1	0.90	5	18	445-1063-1-ND	.41	3.40	27.20	119.00/M	MLF2012C220K
27	±10%	1	1.00	5	17	445-1064-1-ND	.41	3.40	27.20	119.00/M	MLF2012C270K
33	±10%	0.4	1.10	5	15	445-1065-1-ND	.41	3.40	27.20	119.00/M	MLF2012C330K
39	±10%	2	2.40	4	13	445-1066-1-ND	.41	3.40	27.20	119.00/M	MLF2012K390K
47	±10%	2	2.70	4	11	445-1067-1-ND	.39	3.28	26.24	—	MLF2012K470K
68	±10%	1	2.90	2	9	445-1069-1-ND	.41	3.40	27.20	119.00/M	MLF2012C680K
100	±10%	1	3.10	2	7	445-1071-1-ND	.41	3.40	27.20	119.00/M	MLF2012C101K

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Inductance (µH)	Inductance Tolerance	DC Res. (Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing	TDK Part No.
Fig. 3 — GLF1608 (0603)										
1.0	±20%	0.17	125	445-3151-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T1R0M
2.2	±20%	0.33	75	445-3152-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T2R2M
4.7	±20%	0.55	70	445-3153-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T4R7M
10.0	±20%	0.70	50	445-3154-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T100M
22.0	±20%	3.00	35	445-3155-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T220M
Fig. 5 — GLF2012 (0805)										
1.0	±20%	0.07	400	445-3156-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T1R0M
2.2	±20%	0.10	300	445-3157-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T2R2M
4.7	±20%	0.24	200	445-3158-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T4R7M
10.0	±10%	0.36	140	445-3159-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T100K
22.0	±10%	1.00	100	445-3160-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T220K
47.0	±10%	1.70	75	445-3161-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T470K
100.0	±10%	4.00	50	445-3162-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T101K

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel† Pricing 4,000	TDK Part No.
Fig. 3 — MLG1608 (0603)											
1.0	±0.3nH	100	0.10	600	10.0	445-1480-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N0S
1.2	±0.3nH	100	0.10	600	10.0	445-1481-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N2S
1.5	±0.3nH	100	0.10	600	10.0	445-1482-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N5S
1.8	±0.3nH	100	0.10	600	10.0	445-1483-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N8S
2.2	±0.3nH	100	0.10	600	8.0	445-1484-1-ND	.16	1.34	10.68	46.73/M	MLG1608B2N2S
2.7	±0.3nH	100	0.12	600	7.0	445-1485-1-ND	.16	1.34	10.68	46.73/M	MLG1608B2N7S
3.3	±0.3nH	100	0.12	600	6.5	445-1486-1-ND	.16	1.34	10.68	46.73/M	MLG1608B3N3S
3.9	±0.3nH	100	0.14	600	6.0	445-1487-1-ND	.16	1.34	10.68	46.73/M	MLG1608B3N9S
4.7	±0.3nH	100	0.15	600	5.0	445-1488-1-ND	.16	1.34	10.68	46.73/M	MLG1608B4N7S
5.6	±0.5nH	100	0.16	600	5.0	445-1489-1-ND	.16	1.34	10.68	46.73/M	MLG1608B5N6D
6.8	±0.5nH	100	0.18	600	4.5	445-1490-1-ND	.16	1.34	10.68	46.73/M	MLG1608B6N8D
8.2	±0.5nH	100	0.20	600	4.5	445-1491-1-ND	.16	1.34	10.68	46.73/M	MLG1608B8N2D
10	±5%	100	0.20	600	3.5	445-1492-1-ND	.16	1.34	10.68	46.73/M	MLG1608B10NJ
12	±5%	100	0.25	600	3.0	445-1493-1-ND	.16	1.34	10.68	46.73/M	MLG1608B12NJ
15	±5%	100	0.28	600	2.8	445-1494-1-ND	.16	1.34	10.68	46.73/M	MLG1608B15NJ
18	±5%	100	0.32	600	2.6	445-1495-1-ND	.16	1.34	10.68	46.73/M	MLG1608B18NJ
22	±5%	100	0.35	500	2.3	445-1496-1-ND	.16	1.34	10.68	46.73/M	MLG1608B22NJ
27	±5%	100	0.40	500	2.0	445-1497-1-ND	.16	1.34	10.68	46.73/M	MLG1608B27NJ
33	±5%	100	0.50	500	1.8	445-1498-1-ND	.16	1.34	10.68	46.73/M	MLG1608B33NJ
39	±5%	100	0.55	400	1.6	445-1499-1-ND	.16	1.34	10.68	46.73/M	MLG1608B39NJ
47	±5%	100	0.60	400	1.4	445-1500-1-ND	.16	1.34	10.68	46.73/M	MLG1608B47NJ
56	±5%	100	0.70	400	1.2	445-1501-1-ND	.16	1.34	10.68	46.73/M	MLG1608B56NJ
68	±5%	100	0.75	300	1.1	445-1502-1-ND	.16	1.34	10.68	46.73/M	MLG1608B68NJ
82	±5%	100	0.80	300	1.0	445-1503-1-ND	.16	1.34	10.68	46.73/M	MLG1608B82NJ
100	±5%	100	1.00	300	0.80	445-1504-1-ND	.16	1.34	10.68	46.73/M	MLG1608BR10J

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel† Pricing 10,000	TDK Part No.
Fig. 2 — MLG1005 (0402)											
0.6	±0.2nH	100	0.1	1000	10	445-3031-1-ND	.11	1.00	8.75	38.00/M	MLG1005S0N6C
0.7	±0.2nH	100	0.1	1000	10	445-3032-1-ND	.11	1.00	8.75	38.00/M	MLG1005S0N7C
0.8	±0.2nH	100	0.1	1000	10	445-3033-1-ND	.11	1.00	8.75	38.00/M	MLG1005S0N8C
0.9	±0.2nH	100	0.1	1000	10	445-3034-1-ND	.11	1.00	8.75	38.00/M	MLG1005S0N9C
1.0	±0.3nH	100	0.1	1000	10	445-3035-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N0S
1.1	±0.3nH	100	0.1	1000	10	445-3036-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N1S
1.2	±0.3nH	100	0.1	1000	10	445-3037-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N2S
1.3	±0.3nH	100	0.1	1000	8	445-3038-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N3S
1.5	±0.3nH	100	0.1	1000	8	445-3039-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N5S
1.6	±0.3nH	100	0.15	1000	7	445-3040-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N6S
1.8	±0.3nH	100	0.15	900	8	445-3041-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N8S
2.0	±0.3nH	100	0.15	900	7	445-3042-1-ND	.11	1.00	8.75	38.00/M	MLG1005S2N0S
2.2	±0.3nH	100	0.15	900	6	445-3043-1-ND	.11	1.00	8.75	38.00/M	MLG1005S2N2S
2.4	±0.3nH	100	0.15	800	6	445-3044-1-ND	.11	1.00	8.75	38.00/M	MLG1005S2N4S
2.7	±0.3nH	100	0.15	800	5	445-3045-1-ND	.11	1.00	8.75	38.00/M	MLG1005S2N7S
3.0	±0.3nH	100	0.2	800	5	445-3046-1-ND	.11	1.00	8.75	38.00/M	MLG1005S3N0S
3.3	±0.3nH	100	0.2	800	5	445-3047-1-ND	.11	1.00	8.75	38.00/M	MLG1005S3N3S
3.6	±0.3nH	100	0.2	700	5	445-3048-1-ND	.11	1.00	8.75	38.00/M	MLG1005S3N6S
3.9	±0.3nH	100	0.2	700	5	445-3049-1-ND	.11	1.00	8.75	38.00/M	MLG1005S3N9S
4.3	±0.3nH	100	0.2	700	4	445-3050-1-ND	.11	1.00	8.75	38.00/M	MLG1005S4N3S
4.7	±0.3nH	100	0.25	700	4	445-3051-1-ND	.11	1.00	8.75	38.00/M	MLG1005S4N7S
5.1	±0.3nH	100	0.25	600	3.5	445-3052-1-ND	.11	1.00	8.75	38.00/M	MLG1005S5N1S
5.6	±0.3nH	100	0.25	600	3.5	445-3053-1-ND	.11	1.00	8.75	38.00/M	MLG1005S5N6S
6.2	±0.3nH	100	0.3	600	3	445-3054-1-ND	.11	1.00	8.75	38.00/M	MLG1005S6N2S
6.8	±5%	100	0.3	600	3	445-3055-1-ND	.11	1.00	8.75	38.00/M	MLG1005S6N8J
7.5	±5%	100	0.3	500	3	445-3056-1-ND	.11	1.00	8.75	38.00/M	MLG1005S7N5J
8.2	±5%	100	0.35	500	3	445-3057-1-ND	.11	1.00	8.75	38.00/M	MLG1005S8N2J
9.1	±5%	100	0.35	500	2.5	445-3058-1-ND	.11	1.00	8.75	38.00/M	MLG1005S9N1J
10	±5%	100	0.4	500	2.5	445-3059-1-ND	.11	1.00	8.75	38.00/M	MLG1005S10NJ
12	±5%	100	0.45	400	2	445-3060-1-ND	.11	1.00	8.75	38.00/M	MLG1005S12NJ
15	±5%	100	0.6	400	1.8	445-3061-1-ND	.11	1.00	8.75	38.00/M	MLG1005S15NJ
18	±5%	100	0.7	350	1.5	445-3062-1-ND	.11	1.00	8.75	38.00/M	MLG1005S18NJ
22	±5%	100	0.8	350	1.3	445-3063-1-ND	.11	1.00	8.75	38.00/M	MLG1005S22NJ
27	±5%	100	0.9	300	1.2	445-3064-1-ND	.11	1.00	8.75	38.00/M	MLG1005S27NJ
33	±5%	100	1	300	1	445-3065-1-ND	.11	1.00	8.75	38.00/M	MLG1005S33NJ
39	±5%	100	1.2	250	1	445-3066-1-ND	.11	1.00	8.75	38.00/M	MLG1005S39NJ
47	±5%	100	1.4	250	0.7	445-3067-1-ND	.11	1.00	8.75	38.00/M	MLG1005S47NJ
56	±5%	100	1.4	200	0.7	445-3068-1-ND	.11	1.00	8.75	38.00/M	MLG1005S56NJ
68	±5%	100	1.5	200	0.6	445-3069-1-ND	.11	1.00	8.75	38.00/M	MLG1005S68NJ
82	±5%	100	1.6	200	0.5	445-3070-1-ND	.11	1.00	8.75	38.00/M	MLG1005S82NJ
100	±5%	100	2	200	0.5	445-3071-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR10J
120	±5%	100	2.2	150	0.5	445-3072-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR12J
150	±5%	100	3.5	150	0.45	445-3073-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR15J
180	±5%	100	3.8	150	0.4	445-3074-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR18J
220	±5%	100	4.2	100	0.35	445-3075-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR22J
270	±5%	100	4.8	100	0.3	445-3076-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR27J
330	±5%	50	7	50	0.28	445-3077-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR33J
390	±5%	50	8	50	0.25	445-3078-1-ND	.11	1.00	8.75	38.00/M	MLG1005SR39J

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel† Pricing 15,000	TDK Part No.
Fig. 1 — MLG0603Q (0201)											
0.6	±0.2nH	100	0.1	300	10	445-3120-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q0N6C
0.7	±0.2nH	100	0.1	300	10	445-3121-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q0N7C
0.8	±0.2nH	100	0.1	300	10	445-3122-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q0N8C
0.9	±0.2nH	100	0.1	300	10	445-3123-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q0N9C
1.0	±0.3nH	100	0.2	300	10	445-3124-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q1N0S
1.1	±0.3nH	100	0.2	300	10	445-3125-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q1N1S
1.2	±0.3nH	100	0.2	300	10	445-3126-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q1N2S
1.3	±0.3nH	100	0.2	300	9	445-3127-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q1N3S
1.5	±0.3nH	100	0.3	300	9	445-3128-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q1N5S
1.6	±0.3nH	100	0.3	300	9	445-3129-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q1N6S
1.8	±0.3nH	100	0.3	300	8.5	445-3130-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q1N8S
2.0	±0.3nH	100	0.3	300	7.5	445-3131-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q2N0S
2.2	±0.3nH	100	0.4	300	7.5	445-3132-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q2N2S
2.4	±0.3nH	100	0.4	300	7	445-3133-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q2N4S
2.7	±0.3nH	100	0.4	300	6.5	445-3134-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q2N7S
3.0	±0.3nH	100	0.4	300	6	445-3135-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q3N0S
3.3	±0.3nH	100	0.5	300	5.5	445-3136-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q3N3S
3.6	±0.3nH	100	0.5	300	5	445-3137-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q3N6S
3.9	±0.3nH	100	0.5	300	5	445-3138-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q3N9S
4.3	±0.3nH	100	0.6	300	4.5	445-3139-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q4N3S
4.7	±0.3nH	100	0.6	300	4.5	445-3140-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q4N7S
5.1	±0.3nH	100	0.6	200	4.2	445-3141-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q5N1S
5.6	±0.3nH	100	0.6	200	4.2	445-3142-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q5N6S
6.2	±0.3nH	100	0.7	200	3.5	445-3143-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q6N2S
6.8	±5%	100	0.7	200	3.5	445-3144-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q6N8J
7.5	±5%	100	0.8	200	3.5	445-3145-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q7N5J
8.2	±5%	100	0.8	200	3.2	445-3146-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q8N2J
9.1	±5%	100	0.9	200	3	445-3147-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q9N1J
10	±5%	100	0.9	200	2.8	445-3148-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q10NJ
12	±5%	100	1.1	150	2.4	445-3149-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q12NJ
15	±5%	100	1.2	150	2.2	445-3150-1-ND	.31	2.72	23.80	104.00/M	MLG0603Q15NJ

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel† Pricing 15,000	TDK Part No.
Fig. 1 — MLG0603S (0201)											
0.6	±0.2nH	100	0.1	300	10	445-3079-1-ND	.22	1.96	17.15	75.00/M	MLG0603S0N6C
0.7	±0.2nH	100	0.1	300	10	445-3080-1-ND	.22	1.96	17.15	75.00/M	MLG0603S0N7C
0.8	±0.2nH	100	0.1	300	10	445-3081-1-ND	.22	1.96	17.15	75.00/M	MLG0603S0N8C
0.9	±0.2nH	100	0.1	300	10	445-3082-1-ND	.22	1.96	17.15	75.00/M	MLG0603S0N9C
1.0	±0.3nH	100	0.2	300	10	445-3083-1-ND	.22	1.96	17.15	75.00/M	MLG0603S1N0S
1.1	±0.3nH	100	0.2	300	10	445-3084-1-ND	.22	1.96	17.15	75.00/M	MLG0603S1N1S
1.2	±0.3nH	100	0.2	300	10	445-3085-1-ND	.22	1.96	17.15	75.00/M	MLG0603S1N2S
1.3	±0.3nH	100	0.2	300	9	445-3086-1-ND	.22	1.96	17.15	75.00/M	MLG0603S1N3S
1.5	±0.3nH	100	0.3	300	9	445-3087-1-ND	.22	1.96	17.15	75.00/M	MLG0603S1N5S
1.6	±0.3nH	100	0.3	300	9	445-3088-1-ND	.22	1.96	17.15	75.00/M	MLG0603S1N6S
1.8	±0.3nH	100	0.3	300	8.5	445-3089-1-ND	.22	1.96	17.15	75.00/M	MLG0603S1N8S
2.0	±0.3nH	100	0.3	300	7.5	445-3090-1-ND	.22	1.96	17.15	75.00/M	MLG0603S2N0S
2.2	±0.3nH	100	0.4	300	7.5	445-3091-1-ND	.22	1.96	17.15	75.00/M	MLG0603S2N2S
2.4	±0.3nH	100	0.4	300	7	445-3092-1-ND	.22	1.96	17.15	75.00/M	MLG0603S2N4S
2.7	±0.3nH	100	0.4	300	6.5	445-3093-1-ND	.22	1.96	17.15	75.00/M	MLG0603S2N7S
3.0	±0.3nH	100	0.4	300	6	445-3094-1-ND	.22	1.96	17.15	75.00/M	MLG0603S3N0S
3.3	±0.3nH	100	0.5	300	5.5	445-3095-1-ND	.22	1.96	17.15	75.00/M	MLG0603S3N3S
3.6	±0.3nH	100	0.5	300	5	445-3096-1-ND	.22	1.96	17.15	75.00/M	MLG0603S3N6S
3.9	±0.3nH	100	0.5	300	5	445-3097-1-ND	.22	1.96	17.15	75.00/M	MLG0603S3N9S
4.3	±0.3nH	100	0.6	300	4.5	445-3098-1-ND	.22	1.96	17.15	75.00/M	MLG0603S4N3S
4.7	±0.3nH	100	0.6	300	4.5	445-3099-1-ND	.22	1.96	17.15	75.00/M	MLG0603S4N7S
5.1	±0.3nH	100	0.6	200	4.2	445-3100-1-ND	.22	1.96	17.15	75.00/M	MLG0603S5N1S
5.6	±0.3nH	100	0.6	200	4.2	445-3101-1-ND	.22	1.96	17.15	75.00/M	MLG0603S5N6S
6.2	±0.3nH	100	0.7	200	3.5	445-3102-1-ND	.22	1.96	17.15	75.00/M	MLG0603S6N2S
6.8	±5%	100	0.7	200	3.5	445-3103-1-ND	.22	1.96	17.15	75.00/M	MLG0603S6N8J
7.5	±5%	100	0.8	200	3.5	445-3104-1-ND	.22	1.96	17.15	75.00/M	MLG0603S7N5J
8.2	±5%	100	0.8	200	3.2	445-3105-1-ND	.22	1.96	17.15	75.00/M	MLG0603S8N2J
9.1	±5%	100	0.9	200	3	445-3106-1-ND	.22	1.96	17.15	75.00/M	MLG0603S9N1J
10	±5%	100	0.9	200	2.8	445-3107-1-ND	.22	1.96	17.15	75.00/M	MLG0603S10NJ
12	±5%	100	1.1	150	2.4	445-3108-1-ND	.22	1.96	17.15	75.00/M	MLG0603S12NJ
15	±5%	100	1.2	150	2.2	445-3109-1-ND	.22	1.96	17.15	75.00/M	MLG0603S15NJ
18	±5%	100	1.4	150	2	445-3110-1-ND	.22	1.96	17.15	75.00/M	MLG0603S18NJ
22	±5%	100	1.7	150	1.7	445-3111-1-ND	.22	1.96	17.15	75.00/M	MLG0603S22NJ
27	±5%	100	1.7	100	1.5	445-3112-1-ND	.22	1.96	17.15	75.00/M	MLG0603S27NJ
33	±5%	100	2	100	1.3	445-3113-1-ND	.22	1.96	17.15	75.00/M	MLG0603S33NJ
39	±5%	100	2.2	50	1.1	445-3114-1-ND	.22	1.96	17.15	75.00/M	MLG0603S39NJ
47	±5%	100	2.4	50	0.9	445-3115-1-ND	.22	1.96	17.15	75.00/M	MLG0603S47NJ
56	±5%	100	4	50	0.6	445-3116-1-ND	.22	1.96	17.15	75.00/M	MLG0603S56NJ
68	±5%	100	4	50	0.5	445-3117-1-ND	.22	1.96	17.15	75.00/M	MLG0603S68NJ
82	±5%	100	4	50	0.5	445-3118-1-ND	.22	1.96	17.15	75.00/M	MLG0603S82NJ
100	±5%	100	5	50	0.5	445-3119-1-ND	.22	1.96	17.15	75.00/M	MLG0603SR10J

Inductance (µH)	Inductance Tolerance	Test Freq. (MHz)	DC. Res. (Ω)	Rated Current (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel† Pricing 4,000	TDK Part No.
Fig. 4 — MLZ1608 (0603)											
1.0	±20%	10	0.17	150	120	445-3163-1-ND	.23	2.00	17.50	88.00/M	MLZ1608A1R0MT
2.2	±20%	10	0.30	100	80	445-3164-1-ND	.23	2.00	17.50	88.00/M	MLZ1608A2R2MT
4.7	±20%	2	0.50	60	50	445-3165-1-ND	.23	2.00	17.50	88.00/M	MLZ1608E4R7MT
10.0	±20%	2	0.90	40	30	445-3166-1-ND	.23	2.00	17.50	88.00/M	MLZ1608E100MT

Inductance (µH)	Inductance Tolerance	Test Freq. (MHz)	DC. Res. (Ω)	Rated Current (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing	TDK Part No.
Fig. 5 — MLZ2012 (0805)												
1.0	±20%	10	0.12	220	160	445-3167-1-ND	.23	2.00	17.50	4,000	88.00/M	MLZ2012A1R0MT
2.2	±20%	10	0.20	160	100	445-3168-1-ND	.23	2.00	17.50	4,000	88.00/M	MLZ2012A2R2MT
4.7	±20%	2	0.30	80	70	445-3169-1-ND	.23	2.00	17.50	4,000	88.00/M	MLZ2012E4R7MT
10.0	±20%	2	0.40	60	30	445-3170-1-ND	.23	2.00	17.50	2,000	88.00/M	MLZ2012E100MT

† For Tape and Reel part number, change 1-ND to 2-ND.

TDK Inductors

NLFC, NLV, NLCV, NLFV and NLC Series

NLFC Series: This product has good heat durability that withstands lead-free compatible reflow soldering conditions. Lead-free materials are used for the plating on the terminal. The NLFC series features magnetic shielding and is recommended for power supply line applications. DCR: ±30% **Operating Temperature:** -40°C ~ 85°C (-40°F ~ 185°F)

NLV Series: This product supports lead-free solder reflow condition. Lead-free materials are used to terminal plating. This product uses metal terminal, therefore it is high connection reliability. They are wire wound. **Operating Temperature:** -40°C ~ 85°C (-40°F ~ 185°F)

NLCV Series: Lead-free materials are used to terminal plating in this product. **Applications:** • Universal inductance circuit use • AV components • Car electronics • IT equipment This series is a large current type: 1.0 to 33 µH (NLCV32: 1.0 to 330 µH) DCR: ±30% **Operating Temperature:** -40°C ~ 85°C (-40°F ~ 185°F)

NLFV Series: Provides low DC resistance while using 252018 size winding construction. **Applications:** • PCs • Hard disk drives • Other types of electronics DCR: ±20% **Operating Temperature:** -20°C ~ 85°C (-4°F ~ 185°F)

NLC4532 Series: Designed to be used on power lines and support rated current in the range from 90 to 150mA. NLC Series has only half as much DC resistance and twice as much DC current. **Operating Temperature:** -40°C ~ 105°C (-40°F ~ 221°F)

Dim. in mm.

Fig. 1 — NLFC2016 (EIA0805)

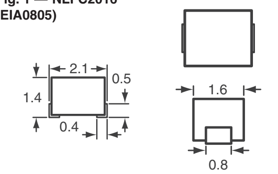

Fig. 2 — NLV32T and NLCV32T (EIA1210)

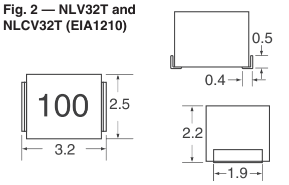

Fig. 3 — NLCV25T, NLFV25 and NLV25T (EIA1008)

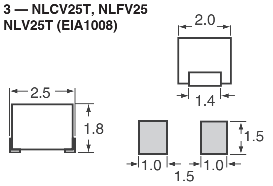

Fig. 4 — NLC4532 (EIA1812)

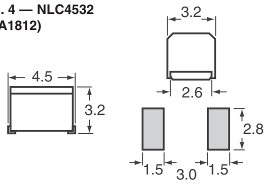

Inductance (µH)	Inductance Tol.	Test Freq. (MHz)	DC Res. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel§ Pricing 2,000	TDK Part No.
Fig. 1 — NLFC2016 Series											
2.2	±20%	7.96	0.23	240	80	445-1899-1-ND	.65	.60	.50	180.00/M	NLFC201614T-2R2M-PF
22	±10%	2.52	1.7	75	16	445-1898-1-ND	.65	.60	.50	—	NLFC201614T-220K-PF
Fig. 2 — NLV32T Series											
0.010	±5%	100	0.13	450	2500	445-1505-1-ND	.29	.25	.20	84.53/M	NLV32T-010J-PF
0.047		100	0.30	450	1200	445-1509-1-ND	.29	.25	.20	84.53/M	NLV32T-047J-PF
0.15		25.2	0.25	450	450	445-1512-1-ND	.29	.25	.20	84.53/M	NLV32T-R15J-PF
0.22		25.2	0.32	450	350	445-1513-1-ND	.29	.25	.20	84.53/M	NLV32T-R22J-PF
0.33		25.2	0.40	450	300	445-1514-1-ND	.29	.25	.20	84.53/M	NLV32T-R33J-PF
0.47	±5%	25.2	0.50	450	220	445-1515-1-ND	.29	.25	.20	84.53/M	NLV32T-R47J-PF
0.68		25.2	0.60	450	160	445-1516-1-ND	.29	.25	.20	84.53/M	NLV32T-R68J-PF
1.0		7.96	0.70	400	120	445-1517-1-ND	.29	.25	.20	84.53/M	NLV32T-1R0J-PF
2.2		7.96	1.00	320	75	445-1519-1-ND	.29	.25	.20	84.53/M	NLV32T-2R2J-PF
3.3		7.96	1.20	260	60	445-1520-1-ND	.29	.25	.20	84.53/M	NLV32T-3R3J-PF
4.7	±5%	7.96	1.50	220	50	445-1521-1-ND	.29	.25	.20	84.53/M	NLV32T-4R7J-PF
10		2.52	2.10	150	30	445-1523-1-ND	.29	.25	.20	84.53/M	NLV32T-100J-PF
22		2.52	3.70	110	20	445-1525-1-ND	.29	.25	.20	84.53/M	NLV32T-220J-PF
47		2.52	7.00	60	15	445-1527-1-ND	.29	.25	.20	84.53/M	NLV32T-470J-PF
68		2.52	9.00	50	12	445-1528-1-ND	.29	.25	.20	84.53/M	NLV32T-680J-PF
100	±5%	0.796	10.00	40	10	445-1529-1-ND	.29	.25	.20	84.53/M	NLV32T-101J-PF
220		0.796	21.00	50	7	445-1531-1-ND	.29	.25	.20	84.53/M	NLV32T-221J-PF
330		0.796	34.00	40	5	445-1532-1-ND	.29	.25	.20	84.53/M	NLV32T-331J-PF
470		0.796	40.00	25	4	445-1533-1-ND	.29	.25	.20	84.53/M	NLV32T-471J-PF
Fig. 2 — NLCV32T Series											
1.0	±20%	7.96	0.08	850	100	445-1534-1-ND	.29	.25	.20	84.53/M	NLCV32T-1R0M-PF
1.5		7.96	0.11	700	80	445-1535-1-ND	.29	.25	.20	84.53/M	NLCV32T-1R5M-PF
2.2		7.96	0.13	600	68	445-1536-1-ND	.29	.25	.20	84.53/M	NLCV32T-2R2M-PF
3.3		7.96	0.16	500	54	445-1537-1-ND	.29	.25	.20	84.53/M	NLCV32T-3R3M-PF
10		2.52	0.36	300	30	445-1538-1-ND	.29	.25	.20	84.53/M	NLCV32T-100K-PF
15	±10%	2.52	0.56	250	26	445-1539-1-ND	.29	.25	.20	84.53/M	NLCV32T-150K-PF
22		2.52	0.77	210	21	445-1540-1-ND	.29	.25	.20	84.53/M	NLCV32T-220K-PF
33		2.52	1.10	170	17	445-1541-1-ND	.29	.25	.20	84.53/M	NLCV32T-330K-PF
47		2.52	1.64	150	14	445-1542-1-ND	.29	.25	.20	84.53/M	NLCV32T-470K-PF
100		0.796	3.70	100	10	445-1543-1-ND	.29	.25	.20	84.53/M	NLCV32T-101K-PF
150	±10%	0.796	6.10	85	8	445-1544-1-ND	.29	.25	.20	84.53/M	NLCV32T-151K-PF
220		0.796	8.40	70	7	445-1545-1-ND	.29	.25	.20	84.53/M	NLCV32T-221K-PF
330		0.796	12.3	60	6	445-1546-1-ND	.29	.25	.20	84.53/M	NLCV32T-331K-PF
Fig. 3 — NLV25T Series											
0.01	±5%	100	0.26	530	2150	445-1701-1-ND	.27	.23	.18	77.70/M	NLV25T-010J-PF
0.022		100	0.37	420	1650	445-1705-1-ND	.27	.23	.18	77.70/M	NLV25T-022J-PF
0.027		100	0.4	410	1550	445-1706-1-ND	.27	.23	.18	77.70/M	NLV25T-027J-PF
0.033		100	0.42	400	1450	445-1707-1-ND	.27	.23	.18	77.70/M	NLV25T-033J-PF
0.039		100	0.45	380	1350	445-1708-1-ND	.27	.23	.18	77.70/M	NLV25T-039J-PF
0.047	±5%	100	0.5	360	1200	445-1709-1-ND	.27	.23	.18	77.70/M	NLV25T-047J-PF
0.068		100	0.65	320	1050	445-1711-1-ND	.27	.23	.18	77.70/M	NLV25T-068J-PF
0.082		100	0.75	300	900	445-1712-1-ND	.27	.23	.18	77.70/M	NLV25T-082J-PF
0.1		100	0.8	280	800	445-1713-1-ND	.27	.23	.18	77.70/M	NLV25T-R10J-PF
0.12		25.2	0.3	550	700	445-1714-1-ND	.27	.23	.18	77.70/M	NLV25T-R12J-PF
0.15	±5%	25.2	0.35	500	550	445-1715-1-ND	.27	.23	.18	77.70/M	NLV25T-R15J-PF
0.18		25.2	0.4	460	500	445-1716-1-ND	.27	.23	.18	77.70/M	NLV25T-R18J-PF
0.22		25.2	0.5	430	450	445-1717-1-ND	.27	.23	.18	77.70/M	NLV25T-R22J-PF
0.27		25.2	0.55	420	425	445-1718-1-ND	.27	.23	.18	77.70/M	NLV25T-R27J-PF
0.33		25.2	0.6	400	400	445-1719-1-ND	.27	.23	.18	77.70/M	NLV25T-R33J-PF
0.39	±5%	25.2	0.65	375	375	445-1720-1-ND	.27	.23	.18	77.70/M	NLV25T-R39J-PF
0.47		25.2	0.68	350	350	445-1721-1-ND	.27	.23	.18	77.70/M	NLV25T-R47J-PF
0.56		25.2	0.75	325	325	445-1722-1-ND	.27	.23	.18	77.70/M	NLV25T-R56J-PF
0.68		25.2	0.85	300	300	445-1723-1-ND	.27	.23	.18	77.70/M	NLV25T-R68J-PF
0.82		25.2	1	260	260	445-1724-1-ND	.27	.23	.18	77.70/M	NLV25T-R82J-PF
1.0	±5%	7.96	1.1	245	245	445-1725-1-ND	.27	.23	.18	77.70/M	NLV25T-1R0J-PF
1.2		7.96	1.2	230	230	445-1726-1-ND	.27	.23	.18	77.70/M	NLV25T-1R2J-PF
1.5		7.96	1.3	220	182	445-1727-1-ND	.27	.23	.18	77.70/M	NLV25T-1R5J-PF
1.8		7.96	1.45	210	135	445-1728-1-ND	.27	.23	.18	77.70/M	NLV25T-1R8J-PF
2.2		7.96	1.55	200	105	445-1729-1-ND	.27	.23	.18	77.70/M	NLV25T-2R2J-PF
2.7	±5%	7.96	1.7	195	70	445-1730-1-ND	.27	.23	.18	77.70/M	NLV25T-2R7J-PF
3.3		7.96	1.9	185	55	445-1731-1-ND	.27	.23	.18	77.70/M	NLV25T-3R3J-PF
3.9		7.96	2.1	180	48	445-1732-1-ND	.27	.23	.18	77.70/M	NLV25T-3R9J-PF
4.7		7.96	2.3	175	43	445-1733-1-ND	.27	.23	.18	77.70/M	NLV25T-4R7J-PF
5.6		7.96	2.5	170	42	445-1734-1-ND	.27	.23	.18	77.70/M	NLV25T-5R6J-PF
6.8	±5%	7.96	2.7	165	39	445-1735-1-ND	.27	.23	.18	77.70/M	NLV25T-6R8J-PF
8.2		7.96	3.05	160	36	445-1736-1-ND	.27	.23	.18	77.70/M	NLV25T-8R2J-PF
10		2.52	3.5	155	33	445-1737-1-ND	.27	.23	.18	77.70/M	NLV25T-100J-PF
12		2.52	3.8	150	30	445-1738-1-ND	.27	.23	.18	77.70/M	NLV25T-120J-PF
15		2.52	4.4	140	26	445-1739-1-ND	.27	.23	.18	77.70/M	NLV25T-150J-PF
18	±5%	2.52	4.8	130	24	445-1740-1-ND	.27	.23	.18	77.70/M	NLV25T-180J-PF
22		2.52	5.5	125	22	445-1741-1-ND	.27	.23	.18	77.70/M	NLV25T-220J-PF
27		2.52	6.3	115	21	445-1742-1-ND	.27	.23	.18	77.70/M	NLV25T-270J-PF
33		2.52	7.1	110	20	445-1743-1-ND	.27	.23	.18	77.70/M	NLV25T-330J-PF
39		2.52	9.5	90	18	445-1744-1-ND	.27	.23	.18	77.70/M	NLV25T-390J-PF
47	±5%	2.52	11.1	80	17	445-1745-1-ND	.27	.23	.18	77.70/M	NLV25T-470J-PF
56		2.52	12.1	75	16	445-1746-1-ND	.27	.23	.18	77.70/M	NLV25T-560J-PF
68		2.52	16.6	70	15	445-1747-1-ND	.27	.23	.18	77.70/M	NLV25T-680J-PF
82		2.52	19	66	13	445-1748-1-ND	.27	.23	.18	77.70/M	NLV25T-820J-PF
100		0.796	21	60	12	445-1749-1-ND	.27	.23	.18	77.70/M	NLV25T-101J-PF
Fig. 3 — NLCV25T Series											
1.0	±20%	7.96	0.34	475	200	445-1752-1-ND	.27	.23	.18	77.70/M	NLCV25T-1R0M-PF
1.5		7.96	0.42	435	165	445-1753-1-ND	.27	.23	.18	77.70/M	NLCV25T-1R5M-PF
2.2		7.96	0.5	390	95	445-1754-1-ND	.27	.23	.18	77.70/M	NLCV25T-2R2M-PF
3.3		7.96	0.65	340	55	445-1755-1-ND	.27	.23	.18	77.70/M	NLCV25T-3R3M-PF
4.7		7.96	0.8	285	43	445-1756-1-ND	.27	.23	.18	77.70/M	NLCV25T-4R7M-PF
6.8		7.96	1	275	39	445-1757-1-ND	.27	.23	.18	77.70/M	NLCV25T-6R8M-PF
10	±10%	2.52	1.69	210	32	445-1750-1-ND	.27	.23	.18	77.70/M	NLCV25T-100K-PF
15		2.52	2.2	175	21	445-1751-1-ND	.27	.23	.18	77.70/M	NLCV25T-150K-PF
22		2.52	2.8	160	18	445-1758-1-ND	.27	.23	.18	77.70/M	NLCV25T-220K-PF
33		2.52	4.2	120	16	445-1759-1-ND	.27	.23	.18	77.70/M	NLCV25T-330K-PF
Fig. 3 — NLFV25 Series											
1.0	±20%	7.96	0.07	455	100	445-1904-1-ND	.64	.60	.50	178.20/M	NLFV25T-1R0M-PF
1.5		7.96	0.09	350	80	445-1905-1-ND	.64	.60	.50	178.20/M	NLFV25T-1R5M-PF
2.2		7.96	0.1	315	70	445-1907-1-ND	.64	.60	.50	178.20/M	NLFV25T-2R2M-PF
3.3		7.96	0.2	280	55	445-1909-1-ND	.64	.60	.50	178.20/M	NLFV25T-3R3M-PF
4.7		7.96	0.24	210	45	445-1911-1-ND	.64	.60	.50	178.20/M	NLFV25T-4R7M-PF
6.8		7.96	0.29	175	38	445-1913-1-ND	.64	.60	.50	178.20/M	NLFV25T-6R8M-PF
10	±10%	2.52	0.36	155	32	445-1901-1-ND	.64	.60	.50	178.20/M	NLFV25T-100K-PF
15		2.52	0.75	130	28	445-1903-1-ND	.64	.60	.50	178.20/M	NLFV25T-150K-PF
22		2.52	1.0	105	16	445-1906-1-ND	.64	.60	.50	178.20/M	NLFV25T-220K-PF
33		2.52	1.4	85	14	445-1908-1-ND	.64	.60	.50	178.20/M	NLFV25T-330K-PF
47		2.52	1.7	60	11	445-1910-1-ND	.64	.60	.50	178.20/M	NLFV25T-470K-PF
68		2.52	3.3	50	10	445-1912-1-ND	.64	.60	.50	178.20/M	NLFV25T-680K-PF
100		0.796	4.0	40	8	445-1902-1-ND	.64	.60	.50	178.20/M	NLFV25T-101K-PF

Inductance (µH)	Inductance Tol.	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel§ Pricing 500	TDK Part No.
Fig. 4 — NLC4532 Series											
1.0	±10%	7.96	0.11	1050	200	445-1944-1-ND	.59	.49	.40	85.75	NLC453232T-1R0K-PF
1.2		7.96	0.12	1000	160	445-1945-1-ND	.59	.49	.40	85.75	NLC453232T-1R2K-PF
1.5		7.96	0.15	950	130	445-1946-1-ND	.59	.49	.40	85.75	NLC453232T-1R5K-PF
1.8		7.96	0.16	900	100	445-1947-1-ND	.59	.49	.40	85.75	NLC453232T-1R8K-PF
2.2		7.96	0.18	850	80	445-1948-1-ND	.59	.49	.40	85.75	NLC453232T-2R2K-PF
2.7	±10%	7.96	0.2	800	60	445-1949-1-ND	.59	.49	.40	85.75	NLC423232T-2R7K-PF
3.3		7.96	0.22	750	45	445-1950-1-ND	.59	.49	.40	85.75	NLC453232T-3R3K-PF
3.9		7.96	0.24	700	40	445-1951-1-ND	.59	.49	.40	85.75	NLC453232T-3R9K-PF
4.7		7.96	0.27	650	35	445-1952-1-ND	.59	.49	.40	85.75	NLC453232T-4R7K-PF
5.6		7.96	0.3	650	30	445-1953-1-ND	.59	.49	.40	85.75	NLC453232T-5R6K-PF
6.8	±10%	7.96	0.35	600	28	445-1954-1-ND	.59	.49	.40	85.75	NLC453232T-6R8K-PF
8.2		7.96	0.4	600	25	445-1955-1-ND	.59	.49	.40	85.75	NLC453232T-8R2K-PF
10		2.52	0.5	550	22	445-1956-1-ND	.59	.49	.40	85.75	NLC453232T-100K-PF
12		2.52	0.6	500	21	445-1957-1-ND	.59	.49	.40	85.75	NLC453232T-120K-PF
15		2.52	0.7	450	20	445-1958-1-ND	.59	.49	.40	85.75	NLC453232T-150K-PF
18	±10%	2.52	0.8	400	19	445-1959-1-ND	.59	.49	.40	85.75	NLC453232T-180K-PF
22		2.52	0.9	370	18	445-1960-1-ND	.59	.49	.40	85.75	NLC453232T-220K-PF
27		2.52	1.2	330	16	445-1961-1-ND	.59	.49	.40	85.75	NLC453232T-270K-PF
33		2.52	1.4	300	14	445-1962-1-ND	.59	.49	.40	85.75	NLC453232T-330K-PF
39		2.52	1.6	280	12	445-1963-1-ND	.59	.49	.40	85.75	NLC453232T-390K-PF
47	±10%	2.52	1.9	260	11.5	445-1964-1-ND	.59	.49	.40	85.75	NLC453232T-470K-PF
56		2.52	2.2	240	11	445-1965-1-ND	.59	.49	.40	85.75	NLC453232T-560K-PF
68		2.52	2.6	220	10	445-1966-1-ND	.59	.49	.40	85.75	NLC453232T-680K-PF
82		2.52	3.5	200	9	445-1967-1-ND	.59	.49	.40	85.75	NLC453232T-820K-PF
100		0.796	4	180	8	445-1968-1-ND	.59	.49	.40	85.75	NLC453232T-101K-PF
120	±10%	0.796	4.5	160	7.5	445-1969-1-ND	.59	.49	.40	85.75	NLC453232T-121K-PF
150		0.796	6.5	140	7	445-1970-1-ND	.59	.49	.40	85.75	NLC453232T-151K-PF
180		0.796	7.5	120	6.5	445-1971-1-ND	.59	.49	.40	85.75	NLC453232T-181K-PF
220		0.796	9	120	5.5	445-1972-1-ND	.59	.49	.40	85.75	NLC453232T-221K-PF
270		0.796	11	100	5	445-1973-1-ND	.59	.49	.40	85.75	NLC453232T-271K-PF
330		0.796	13	90	4	445-1974-1-ND	.59	.49	.40	85.75	NLC453232T-331K-PF

§ For Tape and Reel part number, change the 1-ND to 2-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TDK Inductors - VLP, SLF, RLF, VLCF and VLF Series

VLP Series:
This is a SMD power inductor for power supplies that has an open magnetic path construction based on a low-height drum core (upright). User terminals are contact-formed on the bottom of the drum core using copper (finished with tin plating). It uses crosswise windings and supports large currents.

SLF Series:
SLF series large current lead less inductors have been developed for SMD of power circuits. High performance ferrite core material and low-profile design, ensure superior characteristics and high reliability. **Features:** • Low-profile SMD type • Magnetic shielded type suitable for high density mounting • Provided with embossed carrier tape packaging for automatic mounting machines • Only reflow soldering is applicable **Characteristics:** Sizes SLF6028, SLF7032, and SLF7045: Operating temperature is -20°C ~ 85°C; Size SLF10145: Operating temperature is -20°C ~ 90°C

RLF Series:
This series of inductors is designed for power circuits that require a low profile, low inductance and large current such as those used in notebook PC's. **Features:** With the height at only 4.5mm and retaining the DC current superimposition characteristic, this inductor reduces DC resistance 20% to 50% lower than TDK's existing products. **Applications:** Choke coils in power circuit of notebook computers, LCD, DVD, entertainment electronics, etc. **Specifications:** • Operating Temperature Range: -20°C ~ 105°C • Storage Temperature Range: -40°C ~ 105°C.

VLCF Series:
Features: • Miniature size • Generic use for portable DC to DC converter line • High magnetic shield construction should actualize high resolution for EMC protection **Specifications:** • Operating Temperature Range: -40°C ~ 105°C (including self-temperature rise)

VLF Series:
Features: • These are compact inductors for power line measuring at L2.6 x W2.8mm and 1mm in height, considerably smaller compared to inductors with comparable characteristics • They feature low coil resistance, making them suitable for large currents (e.g., 0.7A at 0.24Ω) • They offer an excellent shielding effect **Applications:** • For mobile phones, hard disk drives and DSCs **Specifications:** • Operating Temperature Range: -40°C ~ 105°C (including self-temperature rise)

Fig. 1 — VLP46

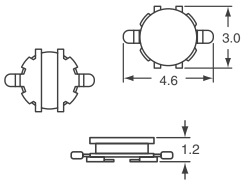

Fig. 2 — VLP56

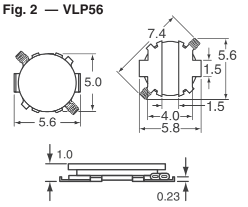

Fig. 3 — SLF6028

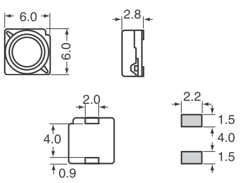

Fig. 4 — SLF7032

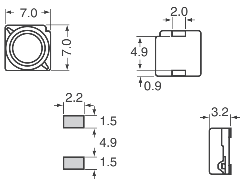

Fig. 5 — SLF7045 Dimensions in mm

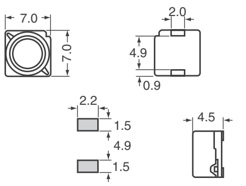

Fig. 6 — SLF10145

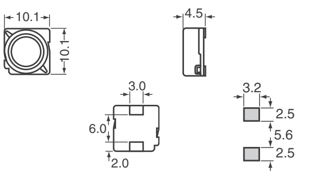

Fig. 7 — RLF12545/12560

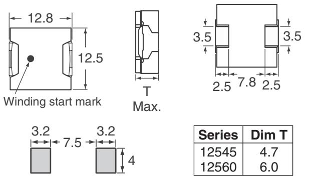

Series	Dim T
12545	4.7
12560	6.0

Fig. 8 — RLF7030

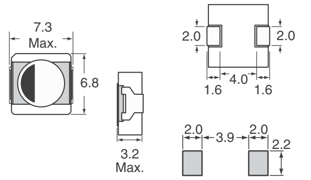

Fig. 9 — VLCF4018-2/4020

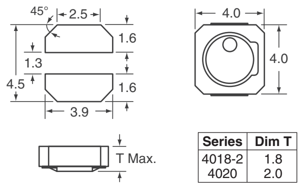

Series	Dim T
4018-2	1.8
4020	2.0

Fig. 10 — VLCF5020/5020-1

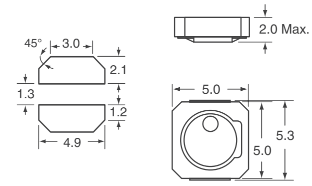

Fig. 11 — VLF3010A/3012A

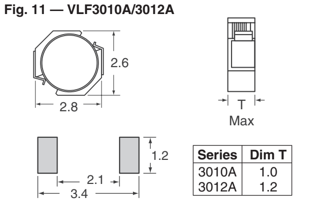

Series	Dim T
3010A	1.0
3012A	1.2

Fig. 12 — VLF4012A

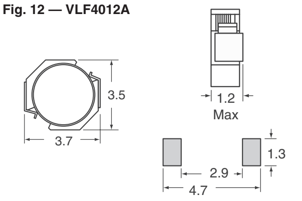

Fig. 13 — VLF5014A

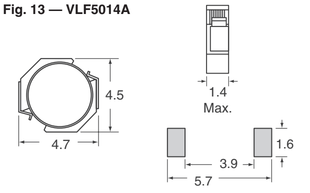

Inductance (μH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Maximum (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
Fig. 1 — VLP46 Series												
1.0	±20%	100	0.11	2.30	445-1916-1-ND	1.90	1.76	1.46	445-1916-2-ND	3,000	525.60/M	VLP4612T-1R0M1R5
1.8	±20%	100	0.14	1.70	445-1917-1-ND	1.90	1.76	1.46	445-1917-2-ND	3,000	525.60/M	VLP4612T-1R8M1R3
2.5	±20%	100	0.17	1.40	445-1919-1-ND	1.90	1.76	1.46	445-1919-2-ND	3,000	525.60/M	VLP4612T-2R5M1R1
3.3	±20%	100	0.26	0.90	445-1920-1-ND	1.90	1.76	1.46	445-1920-2-ND	3,000	525.60/M	VLP4612T-3R3MR85
4.7	±20%	100	0.28	0.88	445-1921-1-ND	1.90	1.76	1.46	445-1921-2-ND	3,000	525.60/M	VLP4612T-4R7MR72
6.8	±20%	100	0.38	0.77	445-1922-1-ND	1.90	1.76	1.46	445-1922-2-ND	3,000	525.60/M	VLP4612T-6R8MR67
10.0	±20%	100	0.62	0.59	445-1914-1-ND	1.90	1.76	1.46	445-1914-2-ND	3,000	525.60/M	VLP4612T-100MR52
15.0	±20%	100	0.96	0.45	445-1915-1-ND	1.90	1.76	1.46	445-1915-2-ND	3,000	525.60/M	VLP4612T-150MR42
22.0	±20%	100	1.42	0.39	445-1918-1-ND	1.90	1.76	1.46	445-1918-2-ND	3,000	525.60/M	VLP4612T-220MR34
Fig. 2 — VLP56 Series												
2.7	±20%	100	0.17	1.26	445-1926-1-ND	2.52	2.33	1.94	445-1926-2-ND	3,000	698.40/M	VLP5610T-2R7M1R0
4.7	±20%	100	0.24	1.08	445-1929-1-ND	2.52	2.33	1.94	445-1929-2-ND	3,000	698.40/M	VLP5610T-4R7MR90
6.8	±20%	100	0.30	0.90	445-1930-1-ND	2.52	2.33	1.94	445-1930-2-ND	3,000	698.40/M	VLP5610T-6R8MR80
10.0	±20%	100	0.45	0.72	445-1923-1-ND	2.52	2.33	1.94	445-1923-2-ND	3,000	698.40/M	VLP5610T-100MR65
15.0	±20%	100	0.71	0.63	445-1924-1-ND	2.52	2.33	1.94	445-1924-2-ND	3,000	698.40/M	VLP5610T-150MR52
22.0	±20%	100	0.96	0.50	445-1925-1-ND	2.52	2.33	1.94	445-1925-2-ND	3,000	698.40/M	VLP5610T-220MR45
33.0	±20%	100	1.47	0.41	445-1927-1-ND	2.52	2.33	1.94	445-1927-2-ND	3,000	698.40/M	VLP5610T-330MR36
47.0	±20%	100	1.93	0.36	445-1928-1-ND	2.52	2.33	1.94	445-1928-2-ND	3,000	698.40/M	VLP5610T-470MR29

Inductance (μH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
Fig. 3 — SLF6028 Series												
4.7	20%	100	0.0284	1.6	445-1995-1-ND	2.73	2.28	1.82	445-1995-2-ND	1,000	796.25	SLF6028T-4R7M1R6-PF
6.8	20%	100	0.0354	1.5	445-1997-1-ND	2.73	2.28	1.82	445-1997-2-ND	1,000	796.25	SLF6028T-6R8M1R5-PF
10	20%	100	0.0532	1.3	445-1989-1-ND	2.73	2.28	1.82	445-1989-2-ND	1,000	796.25	SLF6028T-100M1R3-PF
15	20%	100	0.0745	1.0	445-1991-1-ND	2.73	2.28	1.82	445-1991-2-ND	1,000	796.25	SLF6028T-150M1R0-PF
22	20%	100	0.104	0.77	445-1992-1-ND	2.73	2.28	1.82	445-1992-2-ND	1,000	796.25	SLF6028T-220MR77-PF
33	20%	100	0.148	0.69	445-1993-1-ND	2.73	2.28	1.82	445-1993-2-ND	1,000	796.25	SLF6028T-330MR69-PF
47	20%	100	0.21	0.59	445-1994-1-ND	2.73	2.28	1.82	445-1994-2-ND	1,000	796.25	SLF6028T-470MR59-PF
68	20%	100	0.29	0.5	445-1996-1-ND	2.73	2.28	1.82	445-1996-2-ND	1,000	796.25	SLF6028T-680MR50-PF
100	20%	100	0.43	0.42	445-1990-1-ND	2.73	2.28	1.82	445-1990-2-ND	1,000	796.25	SLF6028T-101MR42-PF
Fig. 4 — SLF7032 Series												
3.3	20%	100	0.023	1.9	445-2007-1-ND	1.16	.97	.78	445-2007-2-ND	1,000	337.75	SLF7032T-3R3M1R9-2-PF
4.7	20%	100	0.036	1.7	445-2010-1-ND	1.16	.97	.78	445-2010-2-ND	1,000	337.75	SLF7032T-4R7M1R7-2-PF
6.8	20%	100	0.041	1.6	445-2013-1-ND	1.16	.97	.78	445-2013-2-ND	1,000	337.75	SLF7032T-6R8M1R6-2-PF

(Continued)

Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
10	20%	100	0.053	1.4	445-1998-1-ND	1.16	.97	.78	445-1998-2-ND	1,000	337.75	SLF7032T-100M1R4-2-PF
15	20%	100	0.075	1.1	445-2001-1-ND	1.16	.97	.78	445-2001-2-ND	1,000	337.75	SLF7032T-150M1R1-2-PF
22	20%	100	0.11	0.96	445-2003-1-ND	1.16	.97	.78	445-2003-2-ND	1,000	337.75	SLF7032T-220MR96-2-PF
33	20%	100	0.16	0.75	445-2005-1-ND	1.16	.97	.78	445-2005-2-ND	1,000	337.75	SLF7032T-330MR75-2-PF
47	20%	100	0.24	0.67	445-2008-1-ND	1.16	.97	.78	445-2008-2-ND	1,000	337.75	SLF7032T-470MR67-2-PF
68	20%	100	0.31	0.59	445-2011-1-ND	1.16	.97	.78	445-2011-2-ND	1,000	337.75	SLF7032T-680MR59-2-PF
100	20%	100	0.45	0.45	445-1999-1-ND	1.16	.97	.78	445-1999-2-ND	1,000	337.75	SLF7032T-101MR45-2-PF
150	20%	100	0.65	0.37	445-2002-1-ND	1.16	.97	.78	445-2002-2-ND	1,000	337.75	SLF7032T-151MR37-2-PF
220	20%	100	1.05	0.29	445-2004-1-ND	1.16	.97	.78	445-2004-2-ND	1,000	337.75	SLF7032T-221MR29-2-PF
330	20%	100	1.67	0.22	445-2006-1-ND	1.16	.97	.78	445-2006-2-ND	1,000	337.75	SLF7032T-331MR22-2-PF
470	20%	100	2.05	0.2	445-2009-1-ND	1.16	.97	.78	445-2009-2-ND	1,000	337.75	SLF7032T-471MR20-2-PF
680	20%	100	3.15	0.16	445-2012-1-ND	1.16	.97	.78	445-2012-2-ND	1,000	337.75	SLF7032T-681MR16-2-PF
1000	20%	100	4.78	0.13	445-2000-1-ND	1.16	.97	.78	445-2000-2-ND	1,000	337.75	SLF7032T-102MR13-2-PF

Fig. 5 — SLF7045 Series

Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
3.3	20%	100	0.02	2.5	445-2023-1-ND	1.31	1.09	.88	445-2023-2-ND	1,000	381.50	SLF7045T-3R3M2R5-PF
4.7	20%	100	0.03	2	445-2026-1-ND	1.31	1.09	.88	445-2026-2-ND	1,000	381.50	SLF7045T-4R7M2R0-PF
6.8	20%	100	0.039	1.7	445-2029-1-ND	1.31	1.09	.88	445-2029-2-ND	1,000	381.50	SLF7045T-6R8M1R7-PF
10	20%	100	0.036	1.3	445-2014-1-ND	1.31	1.09	.88	445-2014-2-ND	1,000	381.50	SLF7045T-100M1R3-PF
15	20%	100	0.052	1.1	445-2017-1-ND	1.31	1.09	.88	445-2017-2-ND	1,000	381.50	SLF7045T-150M1R1-PF
22	20%	100	0.061	0.9	445-2019-1-ND	1.31	1.09	.88	445-2019-2-ND	1,000	381.50	SLF7045T-220MR90-PF
33	20%	100	0.096	0.82	445-2021-1-ND	1.31	1.09	.88	445-2021-2-ND	1,000	381.50	SLF7045T-330MR82-PF
47	20%	100	0.125	0.75	445-2024-1-ND	1.31	1.09	.88	445-2024-2-ND	1,000	381.50	SLF7045T-470MR75-PF
68	20%	100	0.175	0.6	445-2027-1-ND	1.31	1.09	.88	445-2027-2-ND	1,000	381.50	SLF7045T-680MR60-PF
100	20%	100	0.25	0.5	445-2015-1-ND	1.31	1.09	.88	445-2015-2-ND	1,000	381.50	SLF7045T-101MR50-PF
150	20%	100	0.34	0.4	445-2018-1-ND	1.31	1.09	.88	445-2018-2-ND	1,000	381.50	SLF7045T-151MR40-PF
220	20%	100	0.52	0.33	445-2020-1-ND	1.31	1.09	.88	445-2020-2-ND	1,000	381.50	SLF7045T-221MR33-PF
330	20%	100	0.74	0.25	445-2022-1-ND	1.31	1.09	.88	445-2022-2-ND	1,000	381.50	SLF7045T-331MR25-PF
470	20%	100	1.05	0.22	445-2025-1-ND	1.31	1.09	.88	445-2025-2-ND	1,000	381.50	SLF7045T-471MR22-PF
680	20%	100	1.48	0.2	445-2028-1-ND	1.31	1.09	.88	445-2028-2-ND	1,000	381.50	SLF7045T-681MR20-PF
1000	20%	100	2.28	0.14	445-2016-1-ND	1.31	1.09	.88	445-2016-2-ND	1,000	381.50	SLF7045T-102MR14-PF

Fig. 6 — SLF10145 Series

Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
10	20%	1	0.0364	2.5	445-1975-1-ND	1.76	1.47	1.18	445-1975-2-ND	500	256.38	SLF10145T-100M2R5-PF
15	20%	1	0.0472	2.2	445-1978-1-ND	1.76	1.47	1.18	445-1978-2-ND	500	256.38	SLF10145T-150M2R2-PF
22	20%	1	0.0591	1.9	445-1981-1-ND	1.76	1.47	1.18	445-1981-2-ND	500	256.38	SLF10145T-220M1R9-PF
33	20%	1	0.0815	1.6	445-1983-1-ND	1.76	1.47	1.18	445-1983-2-ND	500	256.38	SLF10145T-330M1R6-PF
47	20%	1	0.1	1.4	445-1985-1-ND	1.76	1.47	1.18	445-1985-2-ND	500	256.38	SLF10145T-470M1R4-PF
68	20%	1	0.14	1.2	445-1987-1-ND	1.76	1.47	1.18	445-1987-2-ND	500	256.38	SLF10145T-680M1R2-PF
100	20%	1	0.2	1.0	445-1976-1-ND	1.76	1.47	1.18	445-1976-2-ND	500	256.38	SLF10145T-101M1R0-PF
150	20%	1	0.35	0.79	445-1979-1-ND	1.76	1.47	1.18	445-1979-2-ND	500	256.38	SLF10145T-151MR79-PF
220	20%	1	0.47	0.65	445-1982-1-ND	1.76	1.47	1.18	445-1982-2-ND	500	256.38	SLF10145T-221MR65-PF
330	20%	1	0.68	0.54	445-1984-1-ND	1.76	1.47	1.18	445-1984-2-ND	500	256.38	SLF10145T-331MR54-PF
470	20%	1	1.03	0.47	445-1986-1-ND	1.76	1.47	1.18	445-1986-2-ND	500	256.38	SLF10145T-471MR47-PF
680	20%	1	1.6	0.38	445-1988-1-ND	1.76	1.47	1.18	445-1988-2-ND	500	256.38	SLF10145T-681MR38-PF
1000	20%	1	2.8	0.29	445-1977-1-ND	1.76	1.47	1.18	445-1977-2-ND	500	256.38	SLF10145T-102MR29-PF
1500	20%	1	3.4	0.22	445-1980-1-ND	1.76	1.47	1.18	445-1980-2-ND	500	256.38	SLF10145T-152MR22-PF

Fig. 7 — RLF12545/RLF12560 Series

Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
1.9	30%	100	0.0036	13	445-2948-1-ND	3.96	3.30	2.64	445-2948-2-ND	500	577.50	RLF12545T-1R9N100-PF
2.7	30%	100	0.0045	12	445-2949-1-ND	3.96	3.30	2.64	445-2949-2-ND	500	577.50	RLF12545T-2R7N8R7-PF
4.2	30%	100	0.0074	9.5	445-2950-1-ND	3.96	3.30	2.64	445-2950-2-ND	500	577.50	RLF12545T-4R2N6R5-PF
5.6	30%	100	0.0085	8	445-2951-1-ND	3.96	3.30	2.64	445-2951-2-ND	500	577.50	RLF12545T-5R6N6R1-PF
7.8	30%	100	0.0102	7	445-2952-1-ND	3.96	3.30	2.64	445-2952-2-ND	500	577.50	RLF12545T-7R8N5R4-PF
10	20%	100	0.0124	6	445-2947-1-ND	3.96	3.30	2.64	445-2947-2-ND	500	577.50	RLF12545T-100M5R1-PF
1.0	30%	100	0.0028	18.5	445-2954-1-ND	4.20	3.50	2.80	445-2954-2-ND	500	612.50	RLF12560T-1R0N140
1.9	30%	100	0.0036	15.6	445-2955-1-ND	4.20	3.50	2.80	445-2955-2-ND	500	612.50	RLF12560T-1R9N120
2.7	30%	100	0.0045	14.4	445-2956-1-ND	4.20	3.50	2.80	445-2956-2-ND	500	612.50	RLF12560T-2R7N110
4.2	30%	100	0.0074	10.2	445-2957-1-ND	4.20	3.50	2.80	445-2957-2-ND	500	612.50	RLF12560T-4R2N100
5.6	30%	100	0.0085	9.7	445-2958-1-ND	4.20	3.50	2.80	445-2958-2-ND	500	612.50	RLF12560T-5R6N9R2
7.8	30%	100	0.0102	8.2	445-2959-1-ND	4.20	3.50	2.80	445-2959-2-ND	500	612.50	RLF12560T-7R8N8R2
10	20%	100	0.0124	7.5	445-2953-1-ND	4.20	3.50	2.80	445-2953-2-ND	500	612.50	RLF12560T-100M7R5

Fig. 8 — RLF7030 Series

Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
1.0	30%	100	0.0073	7.9	445-2960-1-ND	2.88	2.40	1.92	445-2960-2-ND	1,000	840.00	RLF7030T-1R0N6R4
1.5	30%	100	0.0080	6.5	445-2961-1-ND	2.88	2.40	1.92	445-2961-2-ND	1,000	840.00	RLF7030T-1R5N6R1
2.2	20%	100	0.0100	5.5	445-2962-1-ND	2.88	2.40	1.92	445-2962-2-ND	1,000	840.00	RLF7030T-2R2M5R4
3.3	20%	100	0.0174	4.4	445-2963-1-ND	2.88	2.40	1.92	445-2963-2-ND	1,000	840.00	RLF7030T-3R3M4R1
4.7	20%	100	0.0260	3.5	445-2964-1-ND	2.88	2.40	1.92	445-2964-2-ND	1,000	840.00	RLF7030T-4R7M3R4
6.8	20%	100	0.0373	3.0	445-2965-1-ND	2.88	2.40	1.92	445-2965-2-ND	1,000	840.00	RLF7030T-6R8M2R8

Fig. 9 — VLCF4018-2 Series

Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
1.6	±30%	100	0.044	1.72	445-3171-1-ND	.77	.68	.60	445-3171-2-ND	1,000	298.00	VLCF4018T-1R6N1R7-2
2.2	±30%	100	0.052	1.44	445-3172-1-ND	.77	.68	.60	445-3172-2-ND	1,000	298.00	VLCF4018T-2R2N1R4-2
3.3	±30%	100	0.069	1.26	445-3173-1-ND	.77	.68	.60	445-3173-2-ND	1,000	298.00	VLCF4018T-3R3N1R2-2
4.7	±30%	100	0.088	1.07	445-3174-1-ND	.77	.68	.60	445-3174-2-ND	1,000	298.00	VLCF4018T-4R7N1R0-2
6.8	±30%	100	0.108	0.94	445-3175-1-ND	.77	.68	.60	445-3175-2-ND	1,000	298.00	VLCF4018T-6R8NR94-2
10	±20%	100	0.163	0.74	445-3176-1-ND	.77	.68	.60	445-3176-2-ND	1,000	298.00	VLCF4018T-100MR74-2
15	±20%	100	0.233	0.59	445-3177-1-ND	.77	.68	.60	445-3177-2-ND	1,000	298.00	VLCF4018T-150MR59-2
22	±20%	100	0.321	0.49	445-3178-1-ND	.77	.68	.60	445-3178-2-ND	1,000	298.00	VLCF4018T-220MR49-2
33	±20%	100	0.469	0.42	445-3179-1-ND	.77	.68	.60	445-3179-2-ND	1,000	298.00	VLCF4018T-330MR42-2
47	±20%	100	0.661	0.34	445-3180-1-ND	.77	.68	.60	445-3180-2-ND	1,000	298.00	VLCF4018T-470MR34-2

(Continued)

Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
Fig. 9 — VLCF4020 Series												
1.8	±30%	100	0.046	1.97	445-3181-1-ND	.77	.68	.60	445-3181-2-ND	1,000	298.00	VLCF4020T-1R8N1R9
2.2	±30%	100	0.054	1.72	445-3182-1-ND	.77	.68	.60	445-3182-2-ND	1,000	298.00	VLCF4020T-2R2N1R7
3.3	±30%	100	0.071	1.52	445-3183-1-ND	.77	.68	.60	445-3183-2-ND	1,000	298.00	VLCF4020T-3R3N1R5
4.7	±30%	100	0.089	1.24	445-3184-1-ND	.77	.68	.60	445-3184-2-ND	1,000	298.00	VLCF4020T-4R7N1R2
6.8	±30%	100	0.119	1.05	445-3185-1-ND	.77	.68	.60	445-3185-2-ND	1,000	298.00	VLCF4020T-6R8N1R0
10	±20%	100	0.168	0.85	445-3186-1-ND	.77	.68	.60	445-3186-2-ND	1,000	298.00	VLCF4020T-100MR85
15	±20%	100	0.275	0.68	445-3187-1-ND	.77	.68	.60	445-3187-2-ND	1,000	298.00	VLCF4020T-150MR68
22	±20%	100	0.391	0.56	445-3188-1-ND	.77	.68	.60	445-3188-2-ND	1,000	298.00	VLCF4020T-220MR56
27	±20%	100	0.451	0.48	445-3189-1-ND	.77	.68	.60	445-3189-2-ND	1,000	298.00	VLCF4020T-270MR48
33	±20%	100	0.571	0.47	445-3190-1-ND	.77	.68	.60	445-3190-2-ND	1,000	298.00	VLCF4020T-330MR47
47	±20%	100	0.849	0.39	445-3191-1-ND	.77	.68	.60	445-3191-2-ND	1,000	298.00	VLCF4020T-470MR39
100	±20%	100	1.308	0.26	445-3192-1-ND	.77	.68	.60	445-3192-2-ND	1,000	298.00	VLCF4020T-101MR26
Fig. 10 — VLCF5020 Series												
1.8	±30%	100	0.049	2.07	445-3193-1-ND	.81	.72	.63	445-3193-2-ND	500	157.50	VLCF5020T-1R8N2R0
2.7	±30%	100	0.058	1.76	445-3194-1-ND	.81	.72	.63	445-3194-2-ND	500	157.50	VLCF5020T-2R7N1R7
3.3	±30%	100	0.069	1.6	445-3195-1-ND	.81	.72	.63	445-3195-2-ND	500	157.50	VLCF5020T-3R3N1R6
4.7	±30%	100	0.079	1.4	445-3196-1-ND	.81	.72	.63	445-3196-2-ND	500	157.50	VLCF5020T-4R7N1R4
6.8	±30%	100	0.102	1.11	445-3197-1-ND	.81	.72	.63	445-3197-2-ND	500	157.50	VLCF5020T-6R8N1R1
10	±20%	100	0.151	0.87	445-3198-1-ND	.81	.72	.63	445-3198-2-ND	500	157.50	VLCF5020T-100MR87
15	±20%	100	0.214	0.71	445-3199-1-ND	.81	.72	.63	445-3199-2-ND	500	157.50	VLCF5020T-150MR71
22	±20%	100	0.311	0.58	445-3200-1-ND	.81	.72	.63	445-3200-2-ND	500	157.50	VLCF5020T-220MR58
33	±20%	100	0.435	0.48	445-3201-1-ND	.81	.72	.63	445-3201-2-ND	500	157.50	VLCF5020T-330MR48
47	±20%	100	0.623	0.40	445-3202-1-ND	.81	.72	.63	445-3202-2-ND	500	157.50	VLCF5020T-470MR40
100	±20%	100	1.375	0.27	445-3203-1-ND	.81	.72	.63	445-3203-2-ND	500	157.50	VLCF5020T-101MR27
Fig. 10 — VLCF5020-1 Series												
2.2	±30%	100	0.058	2.62	445-3204-1-ND	.81	.72	.63	445-3204-2-ND	500	157.50	VLCF5020T-2R2N2R6-1
2.7	±30%	100	0.069	2.28	445-3205-1-ND	.81	.72	.63	445-3205-2-ND	500	157.50	VLCF5020T-2R7N2R2-1
3.3	±30%	100	0.079	2.02	445-3206-1-ND	.81	.72	.63	445-3206-2-ND	500	157.50	VLCF5020T-3R3N2R0-1
4.7	±30%	100	0.102	1.7	445-3207-1-ND	.81	.72	.63	445-3207-2-ND	500	157.50	VLCF5020T-4R7N1R7-1
6.8	±30%	100	0.138	1.39	445-3208-1-ND	.81	.72	.63	445-3208-2-ND	500	157.50	VLCF5020T-6R8N1R3-1
10	±20%	100	0.198	1.13	445-3209-1-ND	.81	.72	.63	445-3209-2-ND	500	157.50	VLCF5020T-100M1R1-1
15	±20%	100	0.292	0.90	445-3210-1-ND	.81	.72	.63	445-3210-2-ND	500	157.50	VLCF5020T-150MR90-1
22	±20%	100	0.413	0.75	445-3211-1-ND	.81	.72	.63	445-3211-2-ND	500	157.50	VLCF5020T-220MR75-1
33	±20%	100	0.597	1.62	445-3212-1-ND	.81	.72	.63	445-3212-2-ND	500	157.50	VLCF5020T-330MR62-1
47	±20%	100	0.875	0.51	445-3213-1-ND	.81	.72	.63	445-3213-2-ND	500	157.50	VLCF5020T-470MR51-1
Fig. 11 — VLF3010A Series												
1.5	±30%	100	0.068	1.2	445-3214-1-ND	.90	.80	.70	445-3214-2-ND	2,000	350.00/M	VLF3010AT-1R5N1R2
2.2	±20%	100	0.10	1.0	445-3215-1-ND	.90	.80	.70	445-3215-2-ND	2,000	350.00/M	VLF3010AT-2R2M1R0
3.3	±20%	100	0.15	0.87	445-3216-1-ND	.90	.80	.70	445-3216-2-ND	2,000	350.00/M	VLF3010AT-3R3MR87
4.7	±20%	100	0.24	0.70	445-3217-1-ND	.90	.80	.70	445-3217-2-ND	2,000	350.00/M	VLF3010AT-4R7MR70
6.8	±20%	100	0.34	0.61	445-3218-1-ND	.90	.80	.70	445-3218-2-ND	2,000	350.00/M	VLF3010AT-6R8MR61
10	±20%	100	0.58	0.49	445-3219-1-ND	.90	.80	.70	445-3219-2-ND	2,000	350.00/M	VLF3010AT-100MR49
15	±20%	100	0.75	0.40	445-3220-1-ND	.90	.80	.70	445-3220-2-ND	2,000	350.00/M	VLF3010AT-150MR40
22	±20%	100	1.3	0.33	445-3221-1-ND	.90	.80	.70	445-3221-2-ND	2,000	350.00/M	VLF3010AT-220MR33
Fig. 11 — VLF3012A Series												
1.5	±30%	100	0.059	1.2	445-3222-1-ND	.86	.76	.67	445-3222-2-ND	2,000	333.00/M	VLF3012AT-1R5N1R2
2.2	±20%	100	0.088	1.0	445-3223-1-ND	.86	.76	.67	445-3223-2-ND	2,000	333.00/M	VLF3012AT-2R2M1R0
3.3	±20%	100	0.11	0.87	445-3224-1-ND	.86	.76	.67	445-3224-2-ND	2,000	333.00/M	VLF3012AT-3R3MR87
4.7	±20%	100	0.16	0.74	445-3225-1-ND	.86	.76	.67	445-3225-2-ND	2,000	333.00/M	VLF3012AT-4R7MR74
6.8	±20%	100	0.23	0.59	445-3226-1-ND	.86	.76	.67	445-3226-2-ND	2,000	333.00/M	VLF3012AT-6R8MR59
10	±20%	100	0.36	0.49	445-3227-1-ND	.86	.76	.67	445-3227-2-ND	2,000	333.00/M	VLF3012AT-100MR49
15	±20%	100	0.54	0.41	445-3228-1-ND	.86	.76	.67	445-3228-2-ND	2,000	333.00/M	VLF3012AT-150MR41
22	±20%	100	0.66	0.33	445-3229-1-ND	.86	.76	.67	445-3229-2-ND	2,000	333.00/M	VLF3012AT-220MR33
33	±20%	100	1.1	0.27	445-3230-1-ND	.86	.76	.67	445-3230-2-ND	2,000	333.00/M	VLF3012AT-330MR27
47	±20%	100	1.9	0.22	445-3231-1-ND	.86	.76	.67	445-3231-2-ND	2,000	333.00/M	VLF3012AT-470MR22
Fig. 12 — VLF4012A Series												
1.5	±20%	100	0.069	1.8	445-3232-1-ND	.81	.72	.63	445-3232-2-ND	1,000	315.00	VLF4012AT-1R5M1R6
2.2	±20%	100	0.076	1.5	445-3233-1-ND	.81	.72	.63	445-3233-2-ND	1,000	315.00	VLF4012AT-2R2M1R5
3.3	±20%	100	0.1	1.3	445-3234-1-ND	.81	.72	.63	445-3234-2-ND	1,000	315.00	VLF4012AT-3R3M1R3
4.7	±20%	100	0.14	1.1	445-3235-1-ND	.81	.72	.63	445-3235-2-ND	1,000	315.00	VLF4012AT-4R7M1R1
6.8	±20%	100	0.2	0.96	445-3236-1-ND	.81	.72	.63	445-3236-2-ND	1,000	315.00	VLF4012AT-6R8MR96
10	±20%	100	0.3	0.80	445-3237-1-ND	.81	.72	.63	445-3237-2-ND	1,000	315.00	VLF4012AT-100MR79
15	±20%	100	0.46	0.63	445-3238-1-ND	.81	.72	.63	445-3238-2-ND	1,000	315.00	VLF4012AT-150MR63
22	±20%	100	0.71	0.52	445-3239-1-ND	.81	.72	.63	445-3239-2-ND	1,000	315.00	VLF4012AT-220MR51
33	±20%	100	1.2	0.44	445-3240-1-ND	.81	.72	.63	445-3240-2-ND	1,000	315.00	VLF4012AT-330MR39
47	±20%	100	2.0	0.36	445-3241-1-ND	.81	.72	.63	445-3241-2-ND	1,000	315.00	VLF4012AT-470MR30
Fig. 13 — VLF5014A Series												
4.7	±20%	100	0.12	1.7	445-3242-1-ND	1.26	1.12	.98	445-3242-2-ND	1,000	490.00	VLF5014AT-4R7M1R1
6.8	±20%	100	0.16	1.4	445-3243-1-ND	1.26	1.12	.98	445-3243-2-ND	1,000	490.00	VLF5014AT-6R8MR99
10	±20%	100	0.19	1.1	445-3244-1-ND	1.26	1.12	.98	445-3244-2-ND	1,000	490.00	VLF5014AT-100MR92
15	±20%	100	0.28	0.97	445-3245-1-ND	1.26	1.12	.98	445-3245-2-ND	1,000	490.00	VLF5014AT-150MR76

AlfaMag Electronics

Inductors for National Simple Switcher™

Features: • High energy storage with minimum saturation • High stability from no load to full load • Operating Temp. Range: -40°C ~ 125°C (50KHz and 150KHz), 40°C ~ 130°C (260KHz) • Electrical specifications at 25°C ambient • Inductance is measured at 20KHz, 10mVrms **50KHz Inductors** are compatible with National Simple Switcher LM2574, LM2475, and LM2576 Series of Regulators. 50KHz Inductance will be typical for the I_{DC} and ET_{OP} values listed. **150KHz Inductors** are compatible with National Simple Switcher part numbers LM259X-L1 through LM259X-L44 and LM258X-L. **260KHz Inductors** are compatible with National Simple Switcher part numbers LM267X-L41 and LM267X-L45 through LM267X-L50

Size Code	Dimensions - Inches ±0.010 (mm ±0.25) A	B	C	X
C1	0.580 (14.73)	0.340 (8.64)	0.220 (5.58)	0.650 (16.51)
C2	0.650 (16.5)	0.449 (11.4)	0.299 (7.6)	0.700 (17.78)
C3	0.827 (21.0)	0.449 (11.4)	0.299 (7.6)	0.950 (24.13)
C4	0.949 (24.1)	0.598 (15.2)	0.449 (11.4)	1.100 (27.94)
C5	1.252 (31.8)	0.701 (17.8)	0.500 (12.7)	1.400 (35.56)

Size Code	Dimensions - Inches ±0.010 (mm ±0.25) A	B	C	D
S1	0.339 (8.6)	0.339 (8.6)	0.185 (4.7)	0.268 (6.8)
S2	0.394 (10.0)	0.394 (10.0)	0.256 (6.5)	0.339 (8.6)
S3	0.503 (12.8)	0.503 (12.8)	0.276 (7.0)	0.449 (11.4)
S4	0.591 (15.0)	0.591 (15.0)	0.315 (8.0)	0.508 (12.9)
S5	0.669 (17.0)	0.701 (17.8)	0.390 (9.91)	0.591 (15.0)
S6	0.925 (23.5)	0.925 (23.5)	0.496 (12.6)	0.827 (21.0)
S7	1.063 (27.0)	1.220 (30.99)	0.500 (12.7)	1.10 (27.9)
T1	0.339 (8.6)	0.339 (8.6)	0.185 (4.7)	0.250 (6.35)
T2	0.394 (10.0)	0.394 (10.0)	0.256 (6.5)	0.300 (7.62)
T3	0.503 (12.8)	0.503 (12.8)	0.276 (7.0)	0.375 (9.52)
T4	0.591 (15.0)	0.591 (15.0)	0.315 (8.0)	0.500 (12.70)
T5	0.669 (17.0)	0.701 (17.8)	0.390 (9.91)	0.600 (15.24)

Typical Schematic

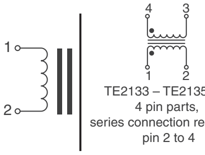

TE2133 – TE2135 are 4 pin parts, series connection required, pin 2 to 4

B Series — Base Mount

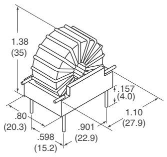

C Series — Clip Mount

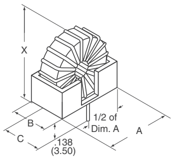

F Series — Encapsulated Flat Mount

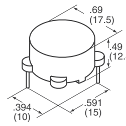

S Series — Surface Mount

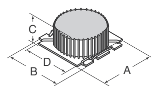

T Series — Thru-Hole Mount

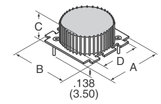

V Series — Encapsulated Vertical Mount

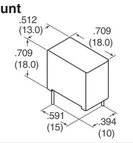

50kHz Inductors

L_N (µH) Typ.	I_{DC} Current (A)	ET_{OP} (V-µSec) Max.	DCR (Ohms) Max.	Size Code (Dim.)	Digi-Key Part No.	Price Each 1	10	25	AlfaMag Part No.
47	3.0	90	0.05	C2	TE2000-ND◆	1.53	1.04	.94	SWC-3.0-47
47	3.0	90	0.05	S5	TE2001-ND◆	1.29	.87	.79	SWS-3.0-47
47	3.0	90	0.05	T5	TE2002-ND◆	1.37	.93	.84	SWT-3.0-47
68	3.0	90	0.02	C4	TE2003-ND◆	2.14	1.70	1.54	SWC-3.0-68
100	3.0	90	0.04	C4	TE2004-ND◆	1.93	1.53	1.39	SWC-3.0-100
150	2.0	90	0.10	C4	TE2005-ND◆	1.86	1.48	1.34	SWC-2.0-150
150	2.0	90	0.10	S6	TE2006-ND◆	1.98	1.34	1.22	SWS-2.0-150
150	3.0	200	0.10	C4	TE2024-ND◆	1.83	1.45	1.32	SWC-3.0-150
220	1.4	90	0.38	S5	TE2007-ND◆	1.86	1.26	1.14	SWS-1.4-220
220	1.4	90	0.38	T5	TE2008-ND◆	1.98	1.34	1.22	SWT-1.4-220
220	1.4	90	0.38	F Series	TE2009-ND◆	2.02	1.37	1.24	SWF-1.4-220
220	1.4	90	0.38	V Series	TE2010-ND	1.86	1.48	1.34	SWV-1.4-220
220	1.4	90	0.14	C3	TE2011-ND◆	1.90	1.28	1.17	SWC-1.4-220
220	1.4	90	0.14	S6	TE2012-ND◆	1.82	1.23	1.12	SWS6-1.4-220
220	3.0	200	0.07	C5	TE2025-ND◆	2.57	2.04	1.85	SWC-3.0-220
330	0.9	90	0.74	S5	TE2013-ND◆	1.94	1.31	1.19	SWS-0.90-330
330	0.9	90	0.74	T5	TE2014-ND◆	2.02	1.37	1.24	SWT-0.90-330
330	0.9	90	0.74	F Series	TE2015-ND◆	1.76	1.39	1.27	SWF-0.90-330
330	0.9	90	0.74	V Series	TE2016-ND◆	1.90	1.50	1.37	SWV-0.90-330
330	0.9	90	0.18	C3	TE2017-ND◆	2.02	1.37	1.24	SWC-0.90-330
330	0.9	90	0.18	S6	TE2018-ND◆	1.90	1.28	1.17	SWS6-0.90-330
330	3.0	200	0.15	C5	TE2026-ND◆	2.54	2.01	1.83	SWC-3.0-330
470	0.64	90	0.16	C4	TE2019-ND	2.17	1.72	1.57	SWC-0.64-470
470	2.0	200	0.17	C5	TE2027-ND	2.61	2.07	1.88	SWC-2.0-470
680	0.85	90	1.25	S5	TE2020-ND◆	1.76	1.39	1.27	SWS-0.85-680
680	0.85	90	1.25	T5	TE2021-ND◆	1.83	1.45	1.32	SWT-0.85-680
680	0.85	90	1.25	F Series	TE2022-ND◆	1.93	1.53	1.39	SWF-0.85-680
680	0.85	90	1.25	V Series	TE2023-ND◆	2.07	1.64	1.49	SWV-0.85-680
680	1.3	200	0.20	C5	TE2028-ND◆	2.71	2.15	1.95	SWC-1.3-680
1000	0.95	200	0.24	C5	TE2029-ND	2.92	2.31	2.10	SWC-0.95-1000
1500	0.62	200	1.00	B Series	TE2030-ND◆	2.82	2.23	2.03	SWB-0.62-1500
2200	0.42	200	1.80	B Series	TE2031-ND	2.82	2.23	2.03	SWB-0.42-2200

◆ ***RoHS Compliant***

150kHz Inductors

L_N (µH) ±20%	I_{DC} Current (A)	ET_{OP} (V-µSec) Max.	DCR (Ohms) Max.	Simple Switcher™ Reference No.†	Size Code (Dim.)	Digi-Key Part No.	Price Each 1	10	25	AlfaMag Part No.	Size Code (Dim.)	Digi-Key Part No.	Price Each 1	10	25	AlfaMag Part No.
						Surface Mount						***Thru-Hole***				
118	0.20	13.2	1.80	LM259X-L3	S1	TE2034-ND	1.09	.74	.67	SWS-0.20-118	T1	TE2079-ND◆	1.15	.78	.71	SWT-0.20-118
55	0.30	6.6	1.00	LM259X-L5	S1	TE2036-ND◆	1.03	.69	.63	SWS-0.30-55	T1	TE2081-ND	1.09	.74	.67	SWT-0.30-55
374	0.20	75.9	2.70	LM259X-L8	S2	TE2039-ND◆	1.38	.93	.85	SWS-0.20-374	T2	TE2084-ND◆	1.44	.97	.88	SWT-0.20-374
256	0.25	33.0	2.20	LM259X-L9	S2	TE2040-ND◆	1.32	.89	.81	SWS-0.25-256	T2	TE2085-ND◆	1.38	.93	.85	SWT-0.25-256
176	0.30	26.4	1.40	LM259X-L10	S2	TE2041-ND◆	1.26	.85	.77	SWS-0.30-176	T2	TE2086-ND◆	1.32	.89	.81	SWT-0.30-176
118	0.38	19.8	1.20	LM259X-L11	S2	TE2042-ND◆	1.19	.81	.73	SWS-0.38-118	T2	TE2087-ND◆	1.26	.85	.77	SWT-0.38-118
55	0.56	13.2	0.50	LM259X-L13	S2	TE2044-ND◆	1.13	.77	.70	SWS-0.56-55	T2	TE2089-ND	1.19	.81	.73	SWT-0.56-55
26	0.84	6.6	0.20	LM259X-L15	S2	TE2046-ND	1.07	.73	.66	SWS-0.84-26	T2	TE2091-ND	1.13	.77	.70	SWT-0.84-26
17	1.02	6.6	0.10	LM259X-L16	S2	TE2047-ND	1.07	.73	.66	SWS-1.02-17	T2	TE2092-ND	1.19	.81	.73	SWT-1.02-17
375	0.36	75.9	1.30	LM259X-L17	S3	TE2048-ND◆	1.55	1.04	.95	SWS-0.36-375	T3	TE2093-ND◆	1.61	1.09	.99	SWT-0.36-375
252	0.44	49.5	0.90	LM259X-L18	S3	TE2049-ND◆	1.42	.96	.87	SWS-0.44-252	T3	TE2094-ND	1.55	1.04	.95	SWT-0.44-252
173	0.54	36.3	0.60	LM259X-L19	S3	TE2050-ND◆	1.42	.96	.87	SWS-0.54-173	T3	TE2095-ND◆	1.48	1.00	.91	SWT-0.54-173
115	0.67	29.7	0.40	LM259X-L20	S3	TE2051-ND◆	1.36	.92	.84	SWS-0.67-115	T3	TE2096-ND◆	1.42	.96	.87	SWT-0.67-115
78	0.82	23.1	0.30	LM259X-L21	S3	TE2052-ND◆	1.30	.88	.80	SWS-0.82-78	T3	TE2097-ND◆	1.36	.92	.84	SWT-0.82-78
54	1.00	16.5	0.20	LM259X-L22	S3	TE2053-ND◆	1.30	.88	.80	SWS-1.00-54	T3	TE2098-ND	1.36	.92	.84	SWT-1.00-54
38	1.20	13.2	0.10	LM259X-L23	S3	TE2054-ND◆	1.30	.88	.80	SWS-1.20-38	T3	TE2099-ND◆	1.36	.92	.84	SWT-1.20-38
26	1.48	9.9	0.10	LM259X-L24	S3	TE2055-ND◆	1.24	.84	.76	SWS-1.48-26	T3	TE2100-ND	1.30	.88	.80	SWT-1.48-26
18	1.81	9.9	0.06	LM259X-L25	S3	TE2056-ND◆	1.24	.84	.76	SWS-1.81-18	T3	TE2101-ND	1.30	.88	.80	SWT-1.81-18
377	0.68	75.9	1.00	LM259X-L26	S4	TE2057-ND	1.55	1.04	.95	SWS-0.68-377	T4	TE2102-ND◆	1.67	1.13	1.02	SWT-0.68-377
248	0.83	72.6	0.60	LM259X-L27	S4	TE2058-ND◆	1.55	1.04	.95	SWS-0.83-248	T4	TE2103-ND◆	1.61	1.09	.99	SWT-0.83-248
168	1.02	56.1	0.40	LM259X-L28	S4	TE2059-ND◆	1.48	1.00	.91	SWS-1.02-168	T4	TE2104-ND◆	1.55	1.04	.95	SWT-1.02-168
112	1.26	42.9	0.30	LM259X-L29	S4	TE2060-ND◆	1.42	.96	.87	SWS-1.26-112	T4	TE2105-ND◆	1.48	1.00	.91	SWT-1.26-112
77	1.54	33.0	0.20	LM259X-L30	S4	TE2061-ND◆	1.42	.96	.87	SWS-1.54-77	T4	TE2106-ND◆	1.48	1.00	.91	SWT-1.54-77
53	1.87	26.4	0.13	LM259X-L31	S4	TE2062-ND◆	1.41	.95	.86	SWS-1.87-53	T4	TE2107-ND◆	1.53	1.03	.94	SWT-1.87-53
37	2.24	19.8	0.10	LM259X-L32	S4	TE2063-ND◆	1.36	.92	.84	SWS-2.24-37	T4	TE2108-ND◆	1.42	.96	.87	SWT-2.24-37
24	2.74	16.5	0.07	LM259X-L33	S4	TE2064-ND◆	1.36	.92	.84	SWS-2.74-24	T4	TE2109-ND◆	1.42	.96	.87	SWT-2.74-24
17	3.00	13.2	0.05	LM259X-L34	S4	TE2065-ND◆	1.36	.92	.84	SWS-3.00-17	C1	TE2110-ND◆	1.42	.96	.87	SWC-3.00-17
250	1.50	72.6	0.23	LM259X-L35	S6	TE2066-ND	2.78	2.20	2.00	SWS-1.50-250	C3	TE2111-ND◆	2.84	2.25	2.04	SWC-1.50-250
168	1.81	75.9	0.18	LM259X-L36	S6	TE2067-ND◆	2.68	2.12	1.93	SWS-1.81-168	C3	TE2112-ND◆	2.73	2.16	1.97	SWC-1.81-168
114	2.22	62.7	0.10	LM259X-L37	S6	TE2068-ND◆	2.68	2.12	1.93	SWS-2.22-114	C3	TE2113-ND◆	2.73	2.16	1.97	SWC-2.22-114
77	2.70	52.8	0.09	LM259X-L38	S6	TE2069-ND	2.61	2.07	1.88	SWS-2.70-77	C3	TE2114-ND◆	2.66	2.11	1.92	SWC-2.70-77
53	3.00	42.9	0.08	LM259X-L39	S6	TE2070-ND◆	2.52	2.00	1.82	SWS-3.00-53	C3	TE2115-ND◆	2.57	2.04	1.85	SWC-3.00-53
38	3.00	29.7	0.05	LM259X-L40	S6	TE2071-ND◆	2.52	2.00	1.82	SWS-3.00-38	C3	TE2116-ND◆	2.57	2.04	1.85	SWC-3.00-38
25	3.00	19.8	0.04	LM259X-L41	S5	TE2072-ND◆	1.88	1.27	1.15	SWS-3.00-25	C2	TE2117-ND◆	1.94	1.31	1.19	SWC-3.00-25
167	2.50	75.9	0.14	LM259X-L42	S6	TE2073-ND◆	3.45	2.73	2.48	SWS-2.50-167	C4	TE2118-ND◆	3.09	2.84	2.58	SWC-2.50-167
110	3.00	75.9	0.09	LM259X-L43	S6	TE2074-ND◆	3.05	2.80	2.55	SWS-3.00-110	C4	TE2119-ND◆	3.17	2.91	2.65	SWC-3.00-110
77	3.00	59.4	0.08	LM259X-L44	S6	TE2075-ND◆	2.66	2.11	1.92	SWS-3.00-77	C3	TE2120-ND◆	2.72	2.15	1.96	SWC-3.00-77
19	4.50	32.0‡	0.02	LM258X-L	S6	TE2076-ND◆	2.64	2.09	1.90	SWS-4.50-19	C3	TE2121-ND◆	2.69	2.13	1.94	SWC-4.5-19

◆ ***RoHS Compliant*** † To be used for reference only. ‡ ET_{OP} for part number SW☐-4.50-19 is based on a frequency of 100kHz. All other items are rated at 150kHz. ***Note:*** Simple Switcher is a trademark of National Semiconductor.

260kHz Inductors

L_N (µH) ±20%	I_{DC} Current (A)	ET_{OP} (V-µSec) Max.	DCR (Ohms) Max.	Simple Switcher™ Reference No.†	Size Code (Dim.)	Digi-Key Part No.	Price Each 1	10	25	AlfaMag Part No.	L_N (µH) ±20%	DCR (Ohms) Max.	Size Code (Dim.)	Digi-Key Part No.	Price Each 1	10	25	AlfaMag Part No.
						Surface Mount								***Clip Mount (Thru-Hole)***				
22.8	4.9	23.3	36	LM267X-L41	S6	TE2129-ND	3.03	2.78	2.53	SW260S-4.9-23	22.8	36	C3	TE2122-ND◆	3.06	2.81	2.55	SW260C-4.9-23
10	4.3	10	26	LM267X-L45	S4	TE2130-ND◆	2.33	1.85	1.68	SW260S-4.3-10	10.2	26	C1	TE2123-ND	3.34	2.64	2.40	SW260C-4.3-10
15	5.0	17.0	27	LM267X-L46	S5	TE2131-ND	2.82	2.23	2.03	SW260S-5.0-15	14.8	23	C2	TE2124-ND◆	2.92	2.31	2.10	SW260C-5.0-15
11	5.0	13.0	25	LM267X-L47	S5	TE2132-ND◆	2.64	2.09	1.90	SW260S-5.0-10	10	25	C2	TE2125-ND	2.75	2.18	1.98	SW260C-5.0-10
52§	5.0	40.0	25	LM267X-L48	S7	TE2133-ND	4.74	4.35	3.95	SW260S-5.0-50	50	50	C4	TE2126-ND	4.08	3.74	3.40	SW260C-5.0-50
36§	5.0	36.0	19	LM267X-L49	S7	TE2134-ND	4.53	4.16	3.78	SW260S-5.0-33	33	47	C4	TE2127-ND◆	3.84	3.52	3.20	SW260C-5.0-33
24.7§	5.0	24.0	13	LM267X-L50	S7	TE2135-ND	3.84	3.52	3.20	SW260S-5.0-23	23	26	C3	TE2128-ND◆	3.06	2.81	2.55	SW260C-5.0-23

◆ ***RoHS Compliant*** † To be used for reference only. § 4 pin part, series connection with pins 2-4 connected for correct inductance (L_N) rating. ***Note:*** Simple Switcher is a trademark of National Semiconductor.

TAIYO YUDEN

Multilayer Chip Inductors HK Series

Size	Dimensions in Inch (mm) L	W	T	e
0201	0.024±0.001 (0.6±0.03)	0.012±0.001 (0.3±0.03)	0.012±0.001 (0.3±0.03)	0.006±0.002 (0.15±0.05)
0402	0.039±0.002 (1.00±0.05)	0.020±0.002 (0.5±0.05)	0.020±0.002 (0.5±0.05)	0.010±0.004 (0.25±0.10)
0603	0.063±0.006 (1.6±0.15)	0.031±0.006 (0.8±0.15)	0.031±0.006 (0.8±0.15)	0.012±0.008 (0.3±0.2)

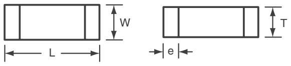

Features: • Multilayer inductor made of advanced ceramics with low-resistivity silver used as internal conductors provides excellent Q and SRF characteristics • Designed to address surface mount inductor needs for applications above 100MHz • Multilayer block structure ensures outstanding reliability, high productivity and product quality
Applications: • Portable telephones, PHS and pagers • Miscellaneous high-frequency circuits • EMI countermeasure in high-frequency circuits

Size	Inductance (nH)	Tolerance	Test Frequency (MHz)	Q (Typical) @ 100MHz	Typical DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Taiyo Yuden Part No.
0201	1.0	±0.3nH	100	6	.088	250	587-1473-1-ND§	.65	2.93	5.20	587-1473-2-ND	15,000	21.00/M	HK06031N0S-T
	1.2	±0.3nH	100	6	.089	250	587-1474-1-ND§	.65	2.93	5.20	587-1474-2-ND	15,000	21.00/M	HK06031N2S-T
	1.5	±0.3nH	100	6	.11	230	587-1475-1-ND§	.65	2.93	5.20	587-1475-2-ND	15,000	21.00/M	HK06031N5S-T
	1.8	±0.3nH	100	6	.12	200	587-1476-1-ND§	.65	2.93	5.20	587-1476-2-ND	15,000	21.00/M	HK06031N8S-T
	2.2	±0.3nH	100	6	.14	200	587-1477-1-ND§	.65	2.93	5.20	587-1477-2-ND	15,000	21.00/M	HK06032N2S-T
	2.7	±0.3nH	100	7	.16	200	587-1478-1-ND§	.65	2.93	5.20	587-1478-2-ND	15,000	21.00/M	HK06032N7S-T
	3.3	±0.3nH	100	7	.19	180	587-1479-1-ND§	.65	2.93	5.20	587-1479-2-ND	15,000	21.00/M	HK06033N3S-T
	3.9	±0.3nH	100	7	.20	170	587-1480-1-ND§	.65	2.93	5.20	587-1480-2-ND	15,000	21.00/M	HK06033N9S-T
	4.7	±0.3nH	100	7	.24	150	587-1481-1-ND§	.65	2.93	5.20	587-1481-2-ND	15,000	21.00/M	HK06034N7S-T
	5.6	±0.3nH	100	7	.27	150	587-1482-1-ND§	.65	2.93	5.20	587-1482-2-ND	15,000	21.00/M	HK06035N6S-T
	6.8	±5%	100	7	.30	150	587-1483-1-ND§	.65	2.93	5.20	587-1483-2-ND	15,000	21.00/M	HK06036N8J-T
	8.2	±5%	100	7	.34	150	587-1484-1-ND§	.65	2.93	5.20	587-1484-2-ND	15,000	21.00/M	HK06038N2J-T
	10	±5%	100	7	.41	150	587-1485-1-ND§	.65	2.93	5.20	587-1485-2-ND	15,000	21.00/M	HK060310NJ-T
	12	±5%	100	7	.45	100	587-1486-1-ND§	.65	2.93	5.20	587-1486-2-ND	15,000	21.00/M	HK060312NJ-T
	15	±5%	100	7	.50	100	587-1487-1-ND§	.65	2.93	5.20	587-1487-2-ND	15,000	21.00/M	HK060315NJ-T
	18	±5%	100	7	.57	100	587-1488-1-ND§	.65	2.93	5.20	587-1488-2-ND	15,000	21.00/M	HK060318NJ-T
	22	±5%	100	7	.71	100	587-1489-1-ND§	.65	2.93	5.20	587-1489-2-ND	15,000	21.00/M	HK060322NJ-T
	27	±5%	100	6	1.11	50	587-1490-1-ND§	.65	2.93	5.20	587-1490-2-ND	15,000	21.00/M	HK060327NJ-T
	33	±5%	100	6	1.33	50	587-1491-1-ND§	.65	2.93	5.20	587-1491-2-ND	15,000	21.00/M	HK060333NJ-T
	39	±5%	100	6	1.51	50	587-1492-1-ND§	.65	2.93	5.20	587-1492-2-ND	15,000	21.00/M	HK060339NJ-T
	47	±5%	100	6	1.74	50	587-1493-1-ND§	.65	2.93	5.20	587-1493-2-ND	15,000	21.00/M	HK060347NJ-T
	56	±5%	100	6	1.85	50	587-1494-1-ND§	.65	2.93	5.20	587-1494-2-ND	15,000	21.00/M	HK060356NJ-T
	68	±5%	100	6	2.30	50	587-1495-1-ND§	.65	2.93	5.20	587-1495-2-ND	15,000	21.00/M	HK060368NJ-T
	82	±5%	100	6	2.60	50	587-1496-1-ND§	.65	2.93	5.20	587-1496-2-ND	15,000	21.00/M	HK060382NJ-T
	100	±5%	100	6	3.00	40	587-1497-1-ND§	.65	2.93	5.20	587-1497-2-ND	15,000	21.00/M	HK0603R10J-T
0402	1.0	±0.3nH	100	11	.04	300	587-1498-1-ND†	.60	2.70	4.80	587-1498-2-ND	10,000	19.00/M	HK10051N0S-T
	1.2	±0.3nH	100	11	.04	300	587-1499-1-ND†	.60	2.70	4.80	587-1499-2-ND	10,000	19.00/M	HK10051N2S-T
	1.5	±0.3nH	100	11	.05	300	587-1500-1-ND†	.60	2.70	4.80	587-1500-2-ND	10,000	19.00/M	HK10051N5S-T
	1.8	±0.3nH	100	11	.06	300	587-1501-1-ND†	.60	2.70	4.80	587-1501-2-ND	10,000	19.00/M	HK10051N8S-T
	2.0	±0.3nH	100	11	.06	300	587-1502-1-ND	.60	2.70	4.80	587-1502-2-ND	10,000	19.00/M	HK10052N0S-T
	2.2	±0.3nH	100	10	.07	300	587-1503-1-ND†	.60	2.70	4.80	587-1503-2-ND	10,000	19.00/M	HK10052N2S-T
	2.4	±0.3nH	100	10	.07	300	587-1504-1-ND	.60	2.70	4.80	587-1504-2-ND	10,000	19.00/M	HK10052N4S-T
	2.7	±0.3nH	100	10	.08	300	587-1505-1-ND†	.60	2.70	4.80	587-1505-2-ND	10,000	19.00/M	HK10052N7S-T
	3.0	±0.3nH	100	10	.09	300	587-1506-1-ND	.60	2.70	4.80	587-1506-2-ND	10,000	19.00/M	HK10053N0S-T
	3.3	±0.3nH	100	10	.10	300	587-1507-1-ND†	.60	2.70	4.80	587-1507-2-ND	10,000	19.00/M	HK10053N3S-T
	3.6	±0.3nH	100	10	.11	300	587-1508-1-ND	.60	2.70	4.80	587-1508-2-ND	10,000	19.00/M	HK10053N6S-T
	3.9	±0.3nH	100	10	.12	300	587-1509-1-ND†	.60	2.70	4.80	587-1509-2-ND	10,000	19.00/M	HK10053N9S-T
	4.3	±0.3nH	100	10	.12	300	587-1510-1-ND	.60	2.70	4.80	587-1510-2-ND	10,000	19.00/M	HK10054N3S-T
	4.7	±0.3nH	100	10	.12	300	587-1511-1-ND†	.60	2.70	4.80	587-1511-2-ND	10,000	19.00/M	HK10054N7S-T
	5.1	±0.3nH	100	10	.13	300	587-1512-1-ND	.60	2.70	4.80	587-1512-2-ND	10,000	19.00/M	HK10055N1S-T
	5.6	±0.3nH	100	10	.15	300	587-1513-1-ND†	.60	2.70	4.80	587-1513-2-ND	10,000	19.00/M	HK10055N6S-T
	6.2	±0.3nH	100	10	.16	300	587-1514-1-ND	.60	2.70	4.80	587-1514-2-ND	10,000	19.00/M	HK10056N2S-T
	6.8	±5%	100	10	.17	300	587-1515-1-ND†	.60	2.70	4.80	587-1515-2-ND	10,000	19.00/M	HK10056N8J-T
	7.5	±5%	100	10	.18	300	587-1516-1-ND	.60	2.70	4.80	587-1516-2-ND	10,000	19.00/M	HK10057N5J-T
	8.2	±5%	100	10	.21	300	587-1517-1-ND†	.60	2.70	4.80	587-1517-2-ND	10,000	19.00/M	HK10058N2J-T
	9.1	±5%	100	10	.22	300	587-1518-1-ND	.60	2.70	4.80	587-1518-2-ND	10,000	19.00/M	HK10059N1J-T
	10	±5%	100	10	.23	300	587-1519-1-ND†	.60	2.70	4.80	587-1519-2-ND	10,000	19.00/M	HK100510NJ-T
	12	±5%	100	11	.28	300	587-1520-1-ND†	.60	2.70	4.80	587-1520-2-ND	10,000	19.00/M	HK100512NJ-T
	15	±5%	100	11	.31	300	587-1521-1-ND†	.60	2.70	4.80	587-1521-2-ND	10,000	19.00/M	HK100515NJ-T
	18	±5%	100	11	.35	300	587-1522-1-ND†	.60	2.70	4.80	587-1522-2-ND	10,000	19.00/M	HK100518NJ-T
	22	±5%	100	11	.42	300	587-1523-1-ND†	.60	2.70	4.80	587-1523-2-ND	10,000	19.00/M	HK100522NJ-T
	27	±5%	100	11	.47	300	587-1524-1-ND†	.60	2.70	4.80	587-1524-2-ND	10,000	19.00/M	HK100527NJ-T
	33	±5%	100	11	.50	200	587-1525-1-ND†	.60	2.70	4.80	587-1525-2-ND	10,000	19.00/M	HK100533NJ-T
	39	±5%	100	11	.52	200	587-1526-1-ND†	.60	2.70	4.80	587-1526-2-ND	10,000	19.00/M	HK100539NJ-T
	47	±5%	100	11	.58	200	587-1527-1-ND†	.60	2.70	4.80	587-1527-2-ND	10,000	19.00/M	HK100547NJ-T
	56	±5%	100	11	.61	200	587-1528-1-ND†	.60	2.70	4.80	587-1528-2-ND	10,000	19.00/M	HK100556NJ-T
	68	±5%	100	11	.70	180	587-1529-1-ND†	.60	2.70	4.80	587-1529-2-ND	10,000	19.00/M	HK100568NJ-T
	82	±5%	100	10	.81	150	587-1530-1-ND†	.60	2.70	4.80	587-1530-2-ND	10,000	19.00/M	HK100582NJ-T
	100	±5%	100	10	.94	150	587-1531-1-ND†	.60	2.70	4.80	587-1531-2-ND	10,000	19.00/M	HK1005R10J-T
	120	±5%	100	10	1.10	150	587-1532-1-ND†	.60	2.70	4.80	587-1532-2-ND	10,000	19.00/M	HK1005R12J-T
	150	±5%	100	12	2.57	140	587-1788-1-ND	.60	2.70	4.80	587-1788-2-ND	10,000	19.00/M	HK1005R15J-T
	180	±5%	100	12	2.97	130	587-1789-1-ND	.60	2.70	4.80	587-1789-2-ND	10,000	19.00/M	HK1005R18J-T
	220	±5%	100	12	3.29	120	587-1790-1-ND	.60	2.70	4.80	587-1790-2-ND	10,000	19.00/M	HK1005R22J-T
	270	±5%	100	12	3.92	110	587-1791-1-ND	.60	2.70	4.80	587-1791-2-ND	10,000	19.00/M	HK1005R27J-T
0603	1.0	±0.3nH	100	14	.015	300	587-1533-1-ND	.80	3.60	6.40	587-1533-2-ND	4,000	28.00/M	HK16081N0S-T
	1.2	±0.3nH	100	14	.015	300	587-1534-1-ND	.80	3.60	6.40	587-1534-2-ND	4,000	28.00/M	HK16081N2S-T
	1.5	±0.3nH	100	14	.03	300	587-1535-1-ND‡	.80	3.60	6.40	587-1535-2-ND	4,000	28.00/M	HK16081N5S-T
	1.8	±0.3nH	100	10	.06	300	587-1536-1-ND‡	.80	3.60	6.40	587-1536-2-ND	4,000	28.00/M	HK16081N8S-T
	2.2	±0.3nH	100	12	.06	300	587-1537-1-ND‡	.80	3.60	6.40	587-1537-2-ND	4,000	28.00/M	HK16082N2S-T
	2.7	±0.3nH	100	13	.06	300	587-1538-1-ND‡	.80	3.60	6.40	587-1538-2-ND	4,000	28.00/M	HK16082N7S-T
	3.3	±0.3nH	100	14	.06	300	587-1539-1-ND‡	.80	3.60	6.40	587-1539-2-ND	4,000	28.00/M	HK16083N3S-T
	3.9	±0.3nH	100	13	.07	300	587-1540-1-ND‡	.80	3.60	6.40	587-1540-2-ND	4,000	28.00/M	HK16083N9S-T
	4.7	±0.3nH	100	13	.08	300	587-1541-1-ND‡	.80	3.60	6.40	587-1541-2-ND	4,000	28.00/M	HK16084N7S-T
	5.6	±0.3nH	100	14	.09	300	587-1542-1-ND‡	.80	3.60	6.40	587-1542-2-ND	4,000	28.00/M	HK16085N6S-T
	6.8	±5%	100	14	.11	300	587-1543-1-ND‡	.80	3.60	6.40	587-1543-2-ND	4,000	28.00/M	HK16086N8J-T
	8.2	±5%	100	14	.13	300	587-1544-1-ND‡	.80	3.60	6.40	587-1544-2-ND	4,000	28.00/M	HK16088N2J-T
	10	±5%	100	14	.16	300	587-1545-1-ND‡	.80	3.60	6.40	587-1545-2-ND	4,000	28.00/M	HK160810NJ-T
	12	±5%	100	14	.17	300	587-1546-1-ND‡	.80	3.60	6.40	587-1546-2-ND	4,000	28.00/M	HK160812NJ-T
	15	±5%	100	15	.20	300	587-1547-1-ND‡	.80	3.60	6.40	587-1547-2-ND	4,000	28.00/M	HK160815NJ-T
	18	±5%	100	15	.21	300	587-1548-1-ND‡	.80	3.60	6.40	587-1548-2-ND	4,000	28.00/M	HK160818NJ-T
	22	±5%	100	16	.25	300	587-1549-1-ND‡	.80	3.60	6.40	587-1549-2-ND	4,000	28.00/M	HK160822NJ-T
	27	±5%	100	16	.28	300	587-1550-1-ND‡	.80	3.60	6.40	587-1550-2-ND	4,000	28.00/M	HK160827NJ-T
	33	±5%	100	17	.35	300	587-1551-1-ND‡	.80	3.60	6.40	587-1551-2-ND	4,000	28.00/M	HK160833NJ-T
	39	±5%	100	18	.38	300	587-1552-1-ND‡	.80	3.60	6.40	587-1552-2-ND	4,000	28.00/M	HK160839NJ-T
	47	±5%	100	17	.45	300	587-1553-1-ND‡	.80	3.60	6.40	587-1553-2-ND	4,000	28.00/M	HK160847NJ-T
	56	±5%	100	17	.50	300	587-1554-1-ND‡	.80	3.60	6.40	587-1554-2-ND	4,000	28.00/M	HK160856NJ-T
	68	±5%	100	18	.55	300	587-1555-1-ND‡	.80	3.60	6.40	587-1555-2-ND	4,000	28.00/M	HK160868NJ-T
	82	±5%	100	18	.60	300	587-1556-1-ND‡	.80	3.60	6.40	587-1556-2-ND	4,000	28.00/M	HK160882NJ-T
	100	±5%	100	18	.65	300	587-1557-1-ND‡	.80	3.60	6.40	587-1557-2-ND	4,000	28.00/M	HK1608R10J-T
	120	±5%	50	16	.68	300	587-1558-1-ND‡	.80	3.60	6.40	587-1558-2-ND	4,000	28.00/M	HK1608R12J-T
	150	±5%	50	13	.73	300	587-1559-1-ND‡	.80	3.60	6.40	587-1559-2-ND	4,000	28.00/M	HK1608R15J-T
	180	±5%	50	13	.85	300	587-1560-1-ND‡	.80	3.60	6.40	587-1560-2-ND	4,000	28.00/M	HK1608R18J-T
	220	±5%	50	12	.95	300	587-1561-1-ND‡	.80	3.60	6.40	587-1561-2-ND	4,000	28.00/M	HK1608R22J-T
	270	±5%	50	14	1.34	150	587-1562-1-ND	.80	3.60	6.40	587-1562-2-ND	4,000	28.00/M	HK1608R27J-T
	330	±5%	50	14	1.53	150	587-1563-1-ND	.80	3.60	6.40	587-1563-2-ND	4,000	28.00/M	HK1608R33J-T
	390	±5%	50	13	1.72	150	587-1564-1-ND	.80	3.60	6.40	587-1564-2-ND	4,000	28.00/M	HK1608R39J-T
	470	±5%	50	13	2.04	150	587-1565-1-ND	.80	3.60	6.40	587-1565-2-ND	4,000	28.00/M	HK1608R47J-T

§ **587-1793-ND** (TAIYO-HK0603-V1)	50 each of values denoted (1250 total pieces)	**$67.50**
† **587-1787-ND** (TAIYO-HK1005-V1)	50 each of values denoted (1300 total pieces)	**$67.50**
‡ **587-1792-ND** (TAIYO-HK1608-V1)	50 each of values denoted (1350 total pieces)	**$67.50**

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LK Series

Features: • Internal printed coil structure creates a closed magnetic circuit which acts as a magnetic shield eliminating crosstalk, thus permitting higher mounting densities • Multilayer block structure yields higher reliability
Applications: Any general circuit of portable equipment in which compact size and high mounting densities are required

Size	Dimensions in Inch (mm)			
	L	W	T	e
0603	0.063±0.006 (1.6±0.15)	0.031±0.006 (0.8±0.15)	0.031±0.006 (0.8±0.15)	0.012±0.008 (0.3±0.2)

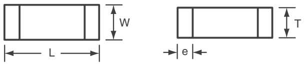

Size	Inductance (µH)	Tolerance	Test Freq. (MHz)	Q (min.)	Max. DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
								10	50	100		Qty.	Pricing	
0603	.047	±20%	50	10	.30	50	587-1597-1-ND	1.37	6.14	10.92	587-1597-2-ND	4,000	48.00/M	LK160847NM-T
	.068	±20%	50	10	.30	50	587-1598-1-ND	1.37	6.14	10.92	587-1598-2-ND	4,000	48.00/M	LK160868NM-T
	.082	±20%	50	10	.30	50	587-1599-1-ND	1.37	6.14	10.92	587-1599-2-ND	4,000	48.00/M	LK160882NM-T
	.10	±10%	25	15	.50	50	587-1566-1-ND	1.37	6.14	10.92	587-1566-2-ND	4,000	48.00/M	LK1608R10K-T
	.12	±10%	25	15	.50	50	587-1567-1-ND	1.37	6.14	10.92	587-1567-2-ND	4,000	48.00/M	LK1608R12K-T
	.15	±10%	25	15	.60	50	587-1568-1-ND	1.37	6.14	10.92	587-1568-2-ND	4,000	48.00/M	LK1608R15K-T
	.18	±10%	25	15	.60	50	587-1569-1-ND	1.37	6.14	10.92	587-1569-2-ND	4,000	48.00/M	LK1608R18K-T
	.22	±10%	25	15	.80	50	587-1570-1-ND	1.37	6.14	10.92	587-1570-2-ND	4,000	48.00/M	LK1608R22K-T
	.27	±10%	25	15	.80	50	587-1571-1-ND	1.37	6.14	10.92	587-1571-2-ND	4,000	48.00/M	LK1608R27K-T
	.33	±10%	25	15	.85	35	587-1572-1-ND	1.37	6.14	10.92	587-1572-2-ND	4,000	48.00/M	LK1608R33K-T
	.39	±10%	25	15	1.00	35	587-1573-1-ND	1.37	6.14	10.92	587-1573-2-ND	4,000	48.00/M	LK1608R39K-T
	.47	±10%	25	15	1.35	35	587-1574-1-ND	1.37	6.14	10.92	587-1574-2-ND	4,000	48.00/M	LK1608R47K-T
	.56	±10%	25	15	1.55	35	587-1575-1-ND	1.37	6.14	10.92	587-1575-2-ND	4,000	48.00/M	LK1608R56K-T
	.68	±10%	25	15	1.70	35	587-1576-1-ND	1.37	6.14	10.92	587-1576-2-ND	4,000	48.00/M	LK1608R68K-T
	.82	±10%	25	15	2.10	35	587-1577-1-ND	1.37	6.14	10.92	587-1577-2-ND	4,000	48.00/M	LK1608R82K-T
	1.0	±10%	10	35	.60	25	587-1578-1-ND	1.37	6.14	10.92	587-1578-2-ND	4,000	48.00/M	LK16081R0K-T
	1.2	±10%	10	35	.80	25	587-1579-1-ND	1.37	6.14	10.92	587-1579-2-ND	4,000	48.00/M	LK16081R2K-T
	1.5	±10%	10	35	.80	25	587-1580-1-ND	1.37	6.14	10.92	587-1580-2-ND	4,000	48.00/M	LK16081R5K-T
	1.8	±10%	10	35	.95	25	587-1581-1-ND	1.37	6.14	10.92	587-1581-2-ND	4,000	48.00/M	LK16081R8K-T
	2.2	±10%	10	35	1.15	15	587-1582-1-ND	1.37	6.14	10.92	587-1582-2-ND	4,000	48.00/M	LK16082R2K-T
	2.7	±10%	10	35	1.35	15	587-1583-1-ND	1.37	6.14	10.92	587-1583-2-ND	4,000	48.00/M	LK16082R7K-T
	3.3	±10%	10	35	1.55	15	587-1584-1-ND	1.37	6.14	10.92	587-1584-2-ND	4,000	48.00/M	LK16083R3K-T
	3.9	±10%	10	35	1.70	15	587-1585-1-ND	1.37	6.14	10.92	587-1585-2-ND	4,000	48.00/M	LK16083R9K-T
	4.7	±10%	10	35	2.10	15	587-1586-1-ND	1.37	6.14	10.92	587-1586-2-ND	4,000	48.00/M	LK16084R7K-T
	5.6	±10%	4	35	1.55	5	587-1587-1-ND	1.37	6.14	10.92	587-1587-2-ND	4,000	48.00/M	LK16085R6K-T
	6.8	±10%	4	35	1.70	5	587-1588-1-ND	1.37	6.14	10.92	587-1588-2-ND	4,000	48.00/M	LK16086R8K-T
	8.2	±10%	4	35	2.10	5	587-1589-1-ND	1.37	6.14	10.92	587-1589-2-ND	4,000	48.00/M	LK16088R2K-T
	10	±10%	2	35	2.55	5	587-1590-1-ND	1.37	6.14	10.92	587-1590-2-ND	4,000	48.00/M	LK1608100K-T
	12	±10%	2	35	2.75	5	587-1591-1-ND	1.37	6.14	10.92	587-1591-2-ND	4,000	48.00/M	LK1608120K-T
	15	±20%	1	20	1.70	1	587-1592-1-ND	1.37	6.14	10.92	587-1592-2-ND	4,000	48.00/M	LK1608150M-T
	18	±20%	1	20	1.85	1	587-1593-1-ND	1.37	6.14	10.92	587-1593-2-ND	4,000	48.00/M	LK1608180M-T
	22	±20%	1	20	2.10	1	587-1594-1-ND	1.37	6.14	10.92	587-1594-2-ND	4,000	48.00/M	LK1608220M-T
	27	±20%	1	20	2.75	1	587-1595-1-ND	1.37	6.14	10.92	587-1595-2-ND	4,000	48.00/M	LK1608270M-T
	33	±20%	1	20	2.95	1	587-1596-1-ND	1.37	6.14	10.92	587-1596-2-ND	4,000	48.00/M	LK1608330M-T

CK Series

Features: • Internal printed coil structure creates a closed magnetic circuit which acts as a magnetic shield eliminating crosstalk, thus permitting higher mounting densities • Multilayer block structure yields higher reliability **Applications:** • Separation of analog and digital circuits • Prevents interference between PLL and the other digital circuits

Size	Dimensions in Inch (mm)			
	L	W	T	e
0603	0.063±0.006 (1.6±0.15)	0.031±0.006 (0.8±0.15)	0.031±0.006 (0.8±0.15)	0.012±0.008 (0.3±0.2)
0805 (R10M~2R2M)	0.079 +0.012 -0.004 (2.0 +0.3 -0.1)	0.049±0.008 (1.25±0.2)	0.033±0.008 (0.85±0.2)	0.020±0.012 (0.5±0.3)
0805 (4R7M~100M)	0.079 +0.012 -0.004 (2.0 +0.3 -0.1)	0.049±0.008 (1.25±0.2)	0.049±0.008 (1.25±0.2)	0.020±0.012 (0.5±0.3)

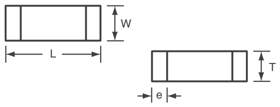

Size	Inductance (µH)	Tolerance	Test Freq. (MHz)	Q (min.)	Max. DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
								10	50	100		Qty.	Pricing	
0603	4.7	±20%	4	20	.50	60	587-1683-1-ND	1.55	6.98	12.40	587-1683-2-ND	4,000	54.00/M	CK16084R7M-T
	10	±20%	2	20	.85	40	587-1684-1-ND	1.55	6.98	12.40	587-1684-2-ND	4,000	54.00/M	CK1608100M-T
0805	.10	±20%	25	15	.16	500	587-1685-1-ND	1.15	5.18	9.20	587-1685-2-ND	4,000	40.00/M	CK2125R10M-T
	.22	±20%	25	15	.23	400	587-1686-1-ND	1.15	5.18	9.20	587-1686-2-ND	4,000	40.00/M	CK2125R22M-T
	.47	±20%	25	15	.32	400	587-1687-1-ND	1.15	5.18	9.20	587-1687-2-ND	2,000	40.00/M	CK2125R47M-T
	1.0	±20%	10	20	.26	220	587-1688-1-ND	1.15	5.18	9.20	587-1688-2-ND	4,000	40.00/M	CK21251R0M-T
	2.2	±20%	10	20	.35	150	587-1689-1-ND	1.15	5.18	9.20	587-1689-2-ND	4,000	40.00/M	CK21252R2M-T
	4.7	±20%	10	20	.48	80	587-1690-1-ND	1.15	5.18	9.20	587-1690-2-ND	2,000	40.00/M	CK21254R7M-T
	10	±20%	2	20	.65	60	587-1691-1-ND	1.15	5.18	9.20	587-1691-2-ND	2,000	40.00/M	CK2125100M-T

AQ Series

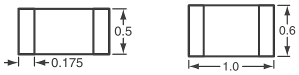

Features: • High Q and high SRF suitable for high frequency circuit • Excellent mountability and heat resistance suitable for replacement of wirewound inductors • Monolithic structure provides high reliability
Applications: • Mobile telephone, wireless LAN • High frequency module • Tuner • High frequency circuits

Size	Inductance (nH)	Tolerance	Q (min.)	Max. DC Resistance (Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 10,000	Taiyo Yuden Part No.
							10	50	100			
0402	1.0	±0.3nH	8	0.07	760	587-1970-1-ND	1.75	7.88	14.00	587-1970-2-ND	56.00/M	AQ1051N0S-T
	1.2	±0.3nH		0.07	760	587-1971-1-ND	1.75	7.88	14.00	587-1971-2-ND	56.00/M	AQ1051N2S-T
	1.5	±0.3nH		0.07	760	587-1972-1-ND	1.75	7.88	14.00	587-1972-2-ND	56.00/M	AQ1051N5S-T
	1.8	±0.3nH		0.07	760	587-1973-1-ND	1.75	7.88	14.00	587-1973-2-ND	56.00/M	AQ1051N8S-T
	2.0	±0.3nH		0.08	710	587-1974-1-ND	1.75	7.88	14.00	587-1974-2-ND	56.00/M	AQ1052N0S-T
	2.2	±0.3nH	8	0.08	710	587-1975-1-ND	1.75	7.88	14.00	587-1975-2-ND	56.00/M	AQ1052N2S-T
	2.4	±0.3nH		0.09	670	587-1976-1-ND	1.75	7.88	14.00	587-1976-2-ND	56.00/M	AQ1052N4S-T
	2.7	±0.3nH		0.09	670	587-1977-1-ND	1.75	7.88	14.00	587-1977-2-ND	56.00/M	AQ1052N7S-T
	3.0	±0.3nH		0.11	610	587-1978-1-ND	1.75	7.88	14.00	587-1978-2-ND	56.00/M	AQ1053N0S-T
	3.3	±0.3nH		0.12	580	587-1979-1-ND	1.75	7.88	14.00	587-1979-2-ND	56.00/M	AQ1053N3S-T
	3.6	±0.3nH	8	0.14	540	587-1980-1-ND	1.75	7.88	14.00	587-1980-2-ND	56.00/M	AQ1053N6S-T
	3.9	±0.3nH		0.15	520	587-1981-1-ND	1.75	7.88	14.00	587-1981-2-ND	56.00/M	AQ1053N9S-T
	4.3	±0.3nH		0.16	500	587-1982-1-ND	1.75	7.88	14.00	587-1982-2-ND	56.00/M	AQ1054N3S-T
	4.7	±0.3nH		0.17	490	587-1983-1-ND	1.75	7.88	14.00	587-1983-2-ND	56.00/M	AQ1054N7S-T
	5.1	±0.3nH		0.19	460	587-1984-1-ND	1.75	7.88	14.00	587-1984-2-ND	56.00/M	AQ1055N1S-T
	5.6	±0.3nH	8	0.20	450	587-1985-1-ND	1.75	7.88	14.00	587-1985-2-ND	56.00/M	AQ1055N6S-T
	6.2	±0.3nH		0.22	430	587-1986-1-ND	1.75	7.88	14.00	587-1986-2-ND	56.00/M	AQ1056N2S-T
	6.8	±5%		0.23	420	587-1987-1-ND	1.75	7.88	14.00	587-1987-2-ND	56.00/M	AQ1056N8J-T
	7.5	±5%		0.25	400	587-1988-1-ND	1.75	7.88	14.00	587-1988-2-ND	56.00/M	AQ1057N5J-T
	8.2	±5%		0.27	390	587-1989-1-ND	1.75	7.88	14.00	587-1989-2-ND	56.00/M	AQ1058N2J-T
	9.1	±5%	8	0.29	370	587-1990-1-ND	1.75	7.88	14.00	587-1990-2-ND	56.00/M	AQ1059N1J-T
	10.0	±5%		0.31	360	587-1967-1-ND	1.75	7.88	14.00	587-1967-2-ND	56.00/M	AQ10510NJ-T
	12.0	±5%		0.39	320	587-1968-1-ND	1.75	7.88	14.00	587-1968-2-ND	56.00/M	AQ10512NJ-T
	15.0	±5%		0.45	300	587-1969-1-ND	1.75	7.88	14.00	587-1969-2-ND	56.00/M	AQ10515NJ-T

587-1991-ND (TAIYO-AQ105-V1) 20 each of 24 values (480 total pieces)........ **$67.50**

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

TAIYO YUDEN

Wound Chip Power Inductors

CB Series

The CB Series wound chip inductors can be used for small DC/DC converters and are suited for choke uses.
Applications: • DSC/DVC/HDD • LCD • Portable telephones • Game equipment • Various audio visual equipment • Various communication equipment

Size	Dimensions – Inch (mm)			
	L	W	T	e
0603	0.063±0.2 (1.6±0.2)	0.031±0.008 (0.8±0.2)	0.031±0.008 (0.8±0.2)	0.015±0.006 (0.4±0.15)
0805 (CBC)	0.079±0.008 (2.0±0.2)	0.049±0.008 (1.25±0.2)	0.049±0.008 (1.25±0.2)	0.020±0.008 (0.5±0.2)
0805 (CBL)	0.079±0.008 (2.0±0.2)	0.049±0.008 (1.25±0.2)	0.035±0.004 (0.9±0.1)	0.020±0.008 (0.5±0.2)
0806	0.79±0.008 (2.0±0.2)	0.063±0.008 (1.6±0.2)	0.063±0.008 (1.6±0.2)	0.020±0.008 (0.5±0.2)
1007	0.098±0.008 (2.5±0.2)	0.071±0.008 (1.8±0.2)	0.071±0.008 (1.8±0.2)	0.020±0.008 (0.5±0.2)
1210	0.126±0.008 (3.2±0.2)	0.098±0.008 (2.5±0.2)	0.098±0.008 (2.5±0.2)	0.024±0.012 (0.6±0.3)

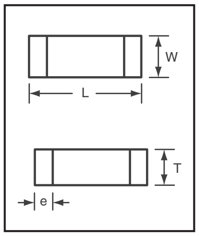

Size	Inductance (µH)	Tolerance	DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel‡		Taiyo Yuden Part No.
						10	50	100	Qty.	Pricing	
0603	1.0	20%	0.09	290	587-1717-1-ND	2.60	11.70	20.80	3,000	91.00/M	CBMF1608T1R0M
	2.2	20%	0.17	190	587-1718-1-ND	2.60	11.70	20.80	3,000	91.00/M	CBMF1608T2R2M
	4.7	20%	0.24	145	587-1719-1-ND	2.60	11.70	20.80	3,000	91.00/M	CBMF1608T4R7M
	10	10%	0.36	115	587-1720-1-ND	2.60	11.70	20.80	3,000	91.00/M	CBMF1608T100K
	22	10%	1.0	70	587-1721-1-ND	2.60	11.70	20.80	3,000	91.00/M	CBMF1608T220K
	47	10%	2.5	50	587-1722-1-ND	2.60	11.70	20.80	3,000	91.00/M	CBMF1608T470K
0805	1.0	20%	0.19	700	587-1600-1-ND§	2.60	11.70	20.80	3,000	91.00/M	CBC2012T1R0M
	2.2	20%	0.33	530	587-1601-1-ND§	2.60	11.70	20.80	3,000	91.00/M	CBC2012T2R2M
	4.7	20%	0.50	360	587-1602-1-ND§	2.60	11.70	20.80	3,000	91.00/M	CBC2012T4R7M
	10	20%	1.2	240	587-1603-1-ND§	2.60	11.70	20.80	3,000	91.00/M	CBC2012T100M
	22	20%	3.7	170	587-1604-1-ND§	2.60	11.70	20.80	3,000	91.00/M	CBC2012T220M
	47	20%	5.8	120	587-1605-1-ND§	2.60	11.70	20.80	3,000	91.00/M	CBC2012T470M
	1.0	20%	0.15	620	587-1629-1-ND	2.75	12.38	22.00	4,000	96.00/M	CBL2012T1R0M
	2.2	20%	0.39	440	587-1630-1-ND	2.75	12.38	22.00	4,000	96.00/M	CBL2012T2R2M
	4.7	20%	0.66	275	587-1631-1-ND	2.75	12.38	22.00	4,000	96.00/M	CBL2012T4R7M
	10	20%	1.0	205	587-1632-1-ND	2.75	12.38	22.00	4,000	96.00/M	CBL2012T100M
	22	20%	2.1	150	587-1633-1-ND	2.75	12.38	22.00	4,000	96.00/M	CBL2012T220M
	47	20%	4.2	100	587-1634-1-ND	2.75	12.38	22.00	4,000	96.00/M	CBL2012T470M
0806	1.0	20%	0.10	1100	587-1608-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2016T1R0M
	2.2	20%	0.20	720	587-1610-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2016T2R2M
	4.7	20%	0.37	530	587-1612-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2016T4R7M
	10	20%	0.82	350	587-1606-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2016T100M
	22	20%	1.8	240	587-1609-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2016T220M
	47	20%	4.3	150	587-1611-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2016T470M
	100	20%	8.0	110	587-1607-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2016T101M
1007	1.0	20%	0.08	1000	587-1615-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2518T1R0M
	2.2	20%	0.13	890	587-1618-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2518T2R2M
	4.7	20%	0.20	680	587-1621-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2518T4R7M
	10	20%	0.36	480	587-1613-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2518T100M
	22	20%	0.77	320	587-1616-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2518T220M
	47	20%	1.9	240	587-1619-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2518T470M
	100	20%	3.7	160	587-1614-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2518T101M
	220	20%	8.4	110	587-1617-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2518T221M
	470	20%	22	70	587-1620-1-ND§	2.45	11.03	19.60	2,000	86.00/M	CBC2518T471M
1210	1.0	20%	0.055	1440	587-1622-1-ND§	3.50	15.75	28.00	1,000	123.00	CBC3225T1R0MR
	2.2	20%	0.08	1130	587-1623-1-ND§	3.50	15.75	28.00	1,000	123.00	CBC3225T2R2MR
	4.7	20%	0.10	1010	587-1624-1-ND§	3.50	15.75	28.00	1,000	123.00	CBC3225T4R7MR
	10	20%	0.133	900	587-1625-1-ND§	3.50	15.75	28.00	1,000	123.00	CBC3225T100MR
	22	20%	0.27	620	587-1626-1-ND§	3.50	15.75	28.00	1,000	123.00	CBC3225T220MR
	47	20%	0.67	390	587-1627-1-ND§	3.50	15.75	28.00	1,000	123.00	CBC3225T470MR
	100	20%	1.4	270	587-1628-1-ND§	3.50	15.75	28.00	1,000	123.00	CBC3225T101MR

‡ For Tape and Reel part number, change 1-ND to 2-ND.

§ **587-1796-ND** (TAIYO-CBCCOIL-V1) 5 each of values denoted (145 total pieces)............................. **$67.50**

BR Series

The best efficiency design is achieved by adopting bottom-surface electrode structure. Small and low-profile wound chip inductors are suited for module design which needs high electric current like DC/DC converters. **Applications:** • Small DC/DC converters in cell phones • HDD, DVC, DSC, PDA, LCD displays

Type	Dimensions – Inch (mm)			
	L	W	H - Maximum	e
BRC1608	0.063±0.008 (1.6±0.2)	0.031±0.008 (0.8±0.2)	0.031±0.008 (0.8±0.2)	0.016±0.006 (0.45±0.15)
BRL2012	0.078±0.008 (2.0±0.2)	0.049±0.008 (1.25±0.2)	0.040 (1.0)	0.020±.008 (0.5±0.2)
BRL2518	0.098±0.008 (2.5±0.2)	0.071±0.008 (1.8±0.2)	0.048 (1.2)	0.020±0.008 (0.5±0.2)

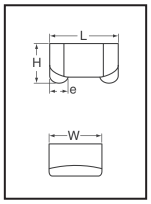

Inductance (µH)	Tolerance	DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel‡		Taiyo Yuden Part No.
					10	50	100	Qty.	Pricing	
NEW! BRC1608 Type NEW!										
0.2	20%	0.078	980	587-2056-1-ND	3.60	16.20	28.80	3,000	126.00/M	BRC1608TR20M
0.35	20%	0.104	810	587-2057-1-ND	3.60	16.20	28.80	3,000	126.00/M	BRC1608TR35M
0.45	20%	0.117	800	587-2058-1-ND	3.60	16.20	28.80	3,000	126.00/M	BRC1608TR45M
0.56	20%	0.1235	760	587-2059-1-ND	3.60	16.20	28.80	3,000	126.00/M	BRC1608TR56M
0.77	20%	0.143	660	587-2060-1-ND	3.60	16.20	28.80	3,000	126.00/M	BRC1608TR77M
1.0	20%	0.234	520	587-2061-1-ND	3.60	16.20	28.80	3,000	126.00/M	BRC1608T1R0M
2.2	20%	0.715	280	587-2062-1-ND	3.60	16.20	28.80	3,000	126.00/M	BRC1608T2R2M
NEW! BRL2012 Type NEW!										
1.0	20%	0.1755	850	587-2063-1-ND	3.15	14.18	25.20	3,000	110.00/M	BRL2012T1R0M
2.2	20%	0.39	550	587-2064-1-ND	3.15	14.18	25.20	3,000	110.00/M	BRL2012T2R2M
4.7	20%	0.715	400	587-2065-1-ND	3.15	14.18	25.20	3,000	110.00/M	BRL2012T4R7M
10	20%	1.105	330	587-2066-1-ND	3.15	14.18	25.20	3,000	110.00/M	BRL2012T100M
22	20%	1.69	270	587-2067-1-ND	3.15	14.18	25.20	3,000	110.00/M	BRL2012T220M
47	20%	4.55	160	587-2068-1-ND	3.15	14.18	25.20	3,000	110.00/M	BRL2012T470M
100	20%	10.01	85	587-2069-1-ND	3.15	14.18	25.20	3,000	110.00/M	BRL2012T101M
BRL2518 Type										
1.0	20%	0.080	1000	587-1952-1-ND	3.55	15.98	28.40	3,000	124.00/M	BRL2518T1R0M
1.5	20%	0.100	920	587-1953-1-ND	3.55	15.98	28.40	3,000	124.00/M	BRL2518T1R5M
2.2	20%	0.135	850	587-1954-1-ND	3.55	15.98	28.40	3,000	124.00/M	BRL2518T2R2M
3.3	20%	0.300	580	587-1955-1-ND	3.55	15.98	28.40	3,000	124.00/M	BRL2518T3R3M
4.7	20%	0.400	470	587-1956-1-ND	3.55	15.98	28.40	3,000	124.00/M	BRL2518T4R7M

‡ For Tape and Reel part number, change the 1-ND to 2-ND.

LB Series

The LBMF Series wound chip inductor covers customers' wide range module design by wide-line-up shape, standard, low Rdc, and high electric current series. The LBM2016 Series High Q and narrow tolerance are achieved by adopting bottom-surface electrode structure. Wound chip inductors are suited for module design of signal line uses. The LBC Series has super high Idc and low Rdc characteristics. The LBR Series features super low Rdc and high Idc characteristics.
Applications: • DSC/DVC/HDD • LCD • Portable telephones • Game equipment • Various audio visual equipment • Various communication equipment

Type	Dimensions – Inch (mm)			
	L	W	T	e
LBMF1608	0.063±0.008 (1.6±0.2)	0.031±0.008 (0.8±0.2)	0.031±0.008 (0.8±0.2)	0.016±0.006 (0.4±0.15)
LBM2016	0.08±0.008 (2.0±0.2)	0.063±0.008 (1.6±0.2)	0.063±0.008 (1.6±0.2)	0.02±0.004 (0.5±0.2)
LBC2518, LBR2518	0.098±0.008 (2.5±0.2)	0.071±0.008 (1.8±0.2)	0.071±0.008 (1.8±0.2)	0.020±0.008 (0.5±0.2)
LBR2012	0.079±0.008 (2.0±0.2)	0.049±0.008 (1.25±0.2)	0.049±0.008 (1.25±0.2)	0.020±0.008 (0.5±0.2)
LB3218	0.128±0.008 (3.2±0.2)	0.072±0.008 (1.8±0.2)	0.072±0.008 (1.8±0.2)	0.024±0.008 (0.6±0.2)

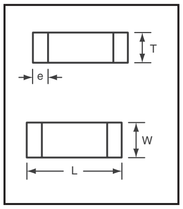

Inductance (µH)	Tolerance	DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel‡		Taiyo Yuden Part No.
					10	50	100	Qty.	Pricing	
LBMF1608 Type										
1.0	20%	0.09	230	587-1711-1-ND	2.45	11.03	19.60	3,000	86.00/M	LBMF1608T1R0M
2.2	20%	0.17	160	587-1712-1-ND	2.45	11.03	19.60	3,000	86.00/M	LBMF1608T2R2M
4.7	20%	0.24	110	587-1713-1-ND	2.45	11.03	19.60	3,000	86.00/M	LBMF1608T4R7M
10	10%	0.36	80	587-1714-1-ND	2.45	11.03	19.60	3,000	86.00/M	LBMF1608T100K
22	10%	1.0	50	587-1715-1-ND	2.45	11.03	19.60	3,000	86.00/M	LBMF1608T220K
47	10%	2.5	35	587-1716-1-ND	2.45	11.03	19.60	3,000	86.00/M	LBMF1608T470K
LBM2016 Type										
0.15	5%	0.15	570	587-1800-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016TR15J
0.22	5%	0.20	520	587-1801-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016TR22J
0.33	5%	0.21	490	587-1802-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016TR33J
0.47	5%	0.26	430	587-1803-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016TR47J
0.68	5%	0.32	400	587-1804-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016TR68J
1.0	5%	0.38	385	587-1805-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T1R0J
1.5	5%	0.47	350	587-1806-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T1R5J
2.2	5%	0.54	340	587-1807-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T2R2J
3.3	5%	0.68	290	587-1808-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T3R3J
4.7	5%	0.78	270	587-1809-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T4R7J
6.8	5%	0.97	240	587-1810-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T6R8J
10	5%	1.2	205	587-1811-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T100J
15	5%	1.5	185	587-1812-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T150J
22	5%	2.8	140	587-1813-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T220J
33	5%	3.6	125	587-1814-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T330J
47	5%	4.1	105	587-1815-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T470J
68	5%	7.0	87	587-1816-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T680J
100	5%	8.0	70	587-1817-1-ND	1.95	8.78	15.60	2,000	68.00/M	LBM2016T101J
LBC2518 Type										
1.0	20%	0.08	775	587-1933-1-ND	1.65	7.43	13.20	2,000	58.00/M	LBC2518T1R0M
2.2	20%	0.13	630	587-1934-1-ND	1.65	7.43	13.20	2,000	58.00/M	LBC2518T2R2M
4.7	20%	0.20	510	587-1935-1-ND	1.65	7.43	13.20	2,000	58.00/M	LBC2518T4R7M
10	10%	0.36	375	587-1936-1-ND	1.65	7.43	13.20	2,000	58.00/M	LBC2518T100K
22	10%	0.77	250	587-1937-1-ND	1.65	7.43	13.20	2,000	58.00/M	LBC2518T220K
47	10%	1.9	165	587-1938-1-ND	1.65	7.43	13.20	2,000	58.00/M	LBC2518T470K
100	10%	3.7	125	587-1939-1-ND	1.65	7.43	13.20	2,000	58.00/M	LBC2518T101K
220	10%	8.4	80	587-1940-1-ND	1.65	7.43	13.20	2,000	58.00/M	LBC2518T221K
470	10%	22	50	587-1941-1-ND	1.65	7.43	13.20	2,000	58.00/M	LBC2518T471K
NEW! LBR2518 Type NEW!										
1.0	20%	0.0585	960	587-2049-1-ND	1.40	6.30	11.20	2,000	49.00/M	LBR2518T1R0M
2.2	20%	0.091	480	587-2050-1-ND	1.40	6.30	11.20	2,000	49.00/M	LBR2518T2R2M
4.7	20%	0.13	345	587-2051-1-ND	1.40	6.30	11.20	2,000	49.00/M	LBR2518T4R7M
10	10%	0.247	235	587-2052-1-ND	1.40	6.30	11.20	2,000	49.00/M	LBR2518T100K
22	10%	0.572	175	587-2053-1-ND	1.40	6.30	11.20	2,000	49.00/M	LBR2518T220K
47	10%	1.092	120	587-2054-1-ND	1.40	6.30	11.20	2,000	49.00/M	LBR2518T470K
100	10%	2.457	80	587-2055-1-ND	1.40	6.30	11.20	2,000	49.00/M	LBR2518T101K
NEW! LBR2012 Type NEW!										
1.0	20%	0.091	400	587-2042-1-ND	1.40	6.30	11.20	3,000	49.00/M	LBR2012T1R0M
2.2	20%	0.169	260	587-2043-1-ND	1.40	6.30	11.20	3,000	49.00/M	LBR2012T2R2M
4.7	20%	0.312	200	587-2044-1-ND	1.40	6.30	11.20	3,000	49.00/M	LBR2012T4R7M
10	10%	0.468	150	587-2045-1-ND	1.40	6.30	11.20	3,000	49.00/M	LBR2012T100K
22	10%	1.3	100	587-2046-1-ND	1.40	6.30	11.20	3,000	49.00/M	LBR2012T220K
47	10%	2.21	75	587-2047-1-ND	1.40	6.30	11.20	3,000	49.00/M	LBR2012T470K
100	10%	5.2	50	587-2048-1-ND	1.40	6.30	11.20	3,000	49.00/M	LBR2012T101K
NEW! LB3218 Type NEW!										
1.0	20%	0.078	1075	587-2032-1-ND	1.55	6.98	12.40	2,000	54.00/M	LB3218T1R0M
2.2	20%	0.117	775	587-2033-1-ND	1.55	6.98	12.40	2,000	54.00/M	LB3218T2R2M
4.7	20%	0.169	550	587-2034-1-ND	1.55	6.98	12.40	2,000	54.00/M	LB3218T4R7M
10	10%	0.325	340	587-2035-1-ND	1.55	6.98	12.40	2,000	54.00/M	LB3218T100K
22	10%	0.637	255	587-2036-1-ND	1.55	6.98	12.40	2,000	54.00/M	LB3218T220K
47	10%	1.196	205	587-2037-1-ND	1.55	6.98	12.40	2,000	54.00/M	LB3218T470K
100	10%	3.12	140	587-2038-1-ND	1.55	6.98	12.40	2,000	54.00/M	LB3218T101K
220	10%	7.02	80	587-2039-1-ND	1.55	6.98	12.40	2,000	54.00/M	LB3218T221K
470	10%	18.2	50	587-2040-1-ND	1.55	6.98	12.40	2,000	54.00/M	LB3218T471K
1000	10%	35.1	40	587-2041-1-ND	1.55	6.98	12.40	2,000	54.00/M	LB3218T102K

‡ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

TAIYO YUDEN

Wound Chip Power Inductors *(Cont.)*

NP Series

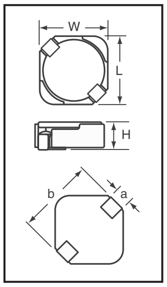

Features:

- Small surface area • Low profile • Designed for high current applications where a surface mount component is required

Applications:

- Power supply circuits/DC-DC converters in a variety of applications where compact size is vital, such as digital camcorders, HDD and notebook PC's

Type	Dimensions – Inch (mm)				
	L	**W**	**H - Maximum**	**a**	**b**
NP04SA	0.197±0.008 (5.0±0.2)	0.197±0.008 (5.0±0.2)	0.118 (3.0)	0.051±0.004 (1.3±0.1)	0.228±0.012 (5.8±0.3)
NP04SB/ NP04SZB	0.197±0.008 (5.0±0.2)	0.197±0.008 (5.0±0.2)	0.079 (2.0)	0.051±0.004 (1.3±0.1)	0.228±0.012 (5.8±0.3)

Inductance (µH)	Tolerance	Typ. DC Resistance (Ω)	Max. Rated Current (A)	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Tape & Reel‡ Qty.	Pricing	Taiyo Yuden Part No.
NP04SA Type										
10	20%	0.054	0.90	587-1672-1-ND	5.50	24.75	44.00	2,000	193.00/M	NP04SA100M
22	20%	0.09	0.53	587-1673-1-ND	5.50	24.75	44.00	2,000	193.00/M	NP04SA220M
NP04SB Type										
4.7	30%	0.033	1.2	587-1674-1-ND	5.50	24.75	44.00	3,000	193.00/M	NP04SB4R7N
10	20%	0.054	0.90	587-1675-1-ND	5.50	24.75	44.00	3,000	193.00/M	NP04SB100M
22	20%	0.12	0.51	587-1676-1-ND	5.50	24.75	44.00	3,000	193.00/M	NP04SB220M
47	20%	0.27	0.38	587-1677-1-ND	4.50	20.25	36.00	3,000	158.00/M	NP04SB470M
NP04SZB Type										
1.0	30%	0.021	4.0	587-1678-1-ND	5.50	24.75	44.00	3,000	193.00/M	NP04SZB1R0N
2.2	30%	0.03	2.7	587-1679-1-ND	5.50	24.75	44.00	3,000	193.00/M	NP04SZB2R2N
4.7	30%	0.075	1.8	587-1680-1-ND	5.50	24.75	44.00	3,000	193.00/M	NP04SZB4R7N
10	20%	0.1	1.3	587-1681-1-ND	5.50	24.75	44.00	3,000	193.00/M	NP04SZB100M
22	20%	0.21	0.77	587-1682-1-ND	5.50	24.75	44.00	3,000	193.00/M	NP04SZB220M

‡ For Tape and Reel part number, change the 1-ND to 2-ND.

NR Series

Features: • Small and low profile • Corresponds to high current • Simple and original magnetic shield structure • Structure is strong against shock **Applications:** • Small DC/DC converters in cell phones • HDD, DVC, DSC, PDA, LCD displays

NR3010, NR3012, NR3015, NR4010, NR4012, NR4018, NR6012, NR8040 Types

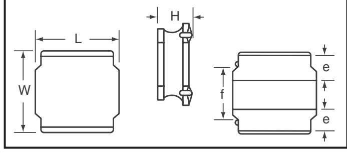

NR6020, NR6045 Types ***NEW!***

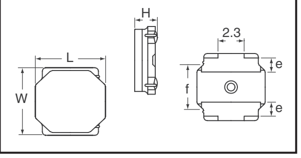

Type	Dimensions – Inch (mm)				
	L	**W**	**H - Maximum**	**e**	**f**
NR3010	0.118±0.004 (3.0±0.1)	0.118±0.004 (3.0±0.1)	0.039 (1.0)	0.035±0.008 (0.9±0.2)	0.075±0.008 (1.9±0.2)
NR3012	0.118±0.004 (3.0±0.1)	0.118±0.004 (3.0±0.1)	0.047 (1.2)	0.035±0.008 (0.9±0.2)	0.075±0.008 (1.9±0.2)
NR3015	0.118±0.004 (3.0±0.1)	0.118±0.004 (3.0±0.1)	0.059 (1.5)	0.035±0.008 (0.9±0.2)	0.075±0.008 (1.9±0.2)
NR4010	0.157±0.008 (4.0±0.2)	0.157±0.008 (4.0±0.2)	0.039 (1.0)	0.043±0.008 (1.1±0.2)	0.098±0.008 (2.5±0.2)
NR4012	0.157±0.008 (4.0±0.2)	0.157±0.008 (4.0±0.2)	0.047 (1.2)	0.043±0.008 (1.1±0.2)	0.098±0.008 (2.5±0.2)
NR4018	0.157±0.008 (4.0±0.2)	0.157±0.008 (4.0±0.2)	0.071 (1.8)	0.043±0.008 (1.1±0.2)	0.098±0.008 (2.5±0.2)
NR6012	0.236±0.008 (6.0±0.2)	0.236±0.008 (6.0±0.2)	0.047 (1.2)	0.039±0.008 (1.0±0.2)	0.189±0.008 (4.8±0.2)
NR6020	0.236±0.008 (6.0±0.2)	0.236±0.008 (6.0±0.2)	0.078 (2.0)	0.053±0.008 (1.35±0.2)	0.157±0.008 (4.0±0.2)
NR6045	0.236±0.008 (6.0±0.2)	0.236±0.008 (6.0±0.2)	0.177 (4.5)	0.053±0.008 (1.35±0.2)	0.157±0.008 (4.0±0.2)
NR8040	0.315±0.008 (8.0±0.2)	0.315±0.008 (8.0±0.2)	0.165 (4.2)† 0.157 (4.0)§	0.063±0.012 (1.6±0.3)	0.220±0.012 (5.6±0.3)

† 0.9µH ~ 6.8µH § 10µH ~ 100µH

Inductance (µH)	Tolerance	DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Tape & Reel‡ Qty.	Pricing	Taiyo Yuden Part No.
NR3010 Type										
1.0	30%	0.065	1300	587-1636-1-ND	6.80	30.60	54.40	2,000	238.00/M	NR3010T1R0N
2.2	20%	0.095	1100	587-1638-1-ND	6.80	30.60	54.40	2,000	238.00/M	NR3010T2R2M
4.7	20%	0.19	750	587-1640-1-ND	6.80	30.60	54.40	2,000	238.00/M	NR3010T4R7M
10	20%	0.45	500	587-1635-1-ND	6.80	30.60	54.40	2,000	238.00/M	NR3010T100M
22	20%	1.03	350	587-1637-1-ND	6.80	30.60	54.40	2,000	238.00/M	NR3010T220M
47	20%	2.05	220	587-1639-1-ND	6.80	30.60	54.40	2,000	238.00/M	NR3010T470M
NR3012 Type										
1.0	30%	0.05	1500	587-1641-1-ND	5.50	24.75	44.00	2,000	193.00/M	NR3012T1R0N
2.2	20%	0.08	1100	587-1642-1-ND	5.50	24.75	44.00	2,000	193.00/M	NR3012T2R2M
4.7	20%	0.13	770	587-1643-1-ND	5.50	24.75	44.00	2,000	193.00/M	NR3012T4R7M
10	20%	0.29	540	587-1644-1-ND	5.50	24.75	44.00	2,000	193.00/M	NR3012T100M
22	20%	0.63	375	587-1645-1-ND	5.50	24.75	44.00	2,000	193.00/M	NR3012T220M
47	20%	1.45	250	587-1646-1-ND	5.50	24.75	44.00	2,000	193.00/M	NR3012T470M
NR3015 Type										
1.0	30%	0.03	2100	587-1647-1-ND	4.95	22.28	39.60	2,000	173.00/M	NR3015T1R0N
2.2	20%	0.06	1480	587-1648-1-ND	4.95	22.28	39.60	2,000	173.00/M	NR3015T2R2M
4.7	20%	0.12	1020	587-1649-1-ND	4.95	22.28	39.60	2,000	173.00/M	NR3015T4R7M
10	20%	0.23	700	587-1650-1-ND	4.95	22.28	39.60	2,000	173.00/M	NR3015T100M
22	20%	0.52	470	587-1651-1-ND	4.95	22.28	39.60	2,000	173.00/M	NR3015T220M
47	20%	1.34	320	587-1652-1-ND	4.95	22.28	39.60	2,000	173.00/M	NR3015T470M
NR4010 Type										
4.7	20%	0.21	900	587-1658-1-ND	6.20	27.90	49.60	5,000	217.00/M	NR4010T4R7M
10	20%	0.38	560	587-1653-1-ND	6.20	27.90	49.60	5,000	217.00/M	NR4010T100M
47	20%	1.81	240	587-1657-1-ND	6.20	27.90	49.60	5,000	217.00/M	NR4010T470M
NR4012 Type										
2.2	20%	0.09	1200	587-1661-1-ND	5.30	23.85	42.40	4,500	186.00/M	NR4012T2R2M
4.7	20%	0.14	960	587-1663-1-ND	5.30	23.85	42.40	4,500	186.00/M	NR4012T4R7M
10	20%	0.24	740	587-1659-1-ND	5.30	23.85	42.40	4,500	186.00/M	NR4012T100M
22	20%	0.48	510	587-1660-1-ND	5.30	23.85	42.40	4,500	186.00/M	NR4012T220M
47	20%	1.0	350	587-1662-1-ND	5.30	23.85	42.40	4,500	186.00/M	NR4012T470M
NR4018 Type										
1.0	30%	0.03	1830	587-1666-1-ND	4.45	20.03	35.60	3,500	156.00/M	NR4018T1R0N
2.2	20%	0.06	1440	587-1669-1-ND	4.45	20.03	35.60	3,500	156.00/M	NR4018T2R2M
4.7	20%	0.09	1200	587-1671-1-ND	4.45	20.03	35.60	3,500	156.00/M	NR4018T4R7M
10	20%	0.18	840	587-1664-1-ND	4.45	20.03	35.60	3,500	156.00/M	NR4018T100M
22	20%	0.36	590	587-1667-1-ND	4.45	20.03	35.60	3,500	156.00/M	NR4018T220M
47	20%	0.65	420	587-1670-1-ND	4.45	20.03	35.60	3,500	156.00/M	NR4018T470M
100	20%	1.5	270	587-1665-1-ND	4.45	20.03	35.60	3,500	156.00/M	NR4018T101M
220	20%	4.0	170	587-1668-1-ND	4.45	20.03	35.60	3,500	156.00/M	NR4018T221M
NR6012 Type										
2.5	30%	0.108	1730	587-2024-1-ND§	5.95	26.78	47.60	1,000	208.00	NR6012T2R5NE
3.0	20%	0.092	2000	587-1703-1-ND	5.95	26.78	47.60	1,000	208.00	NR6012T3R0M
4.0	30%	0.126	1570	587-2025-1-ND§	5.95	26.78	47.60	1,000	208.00	NR6012T4R0NE
4.0	20%	0.107	1800	587-1704-1-ND	5.95	26.78	47.60	—	—	NR6012T4R0M
5.3	20%	0.132	1400	587-2026-1-ND§	5.95	26.78	47.60	1,000	208.00	NR6012T5R3ME
6.8	20%	0.198	1180	587-2027-1-ND§	5.95	26.78	47.60	1,000	208.00	NR6012T6R8ME
10	20%	0.282	1000	587-2028-1-ND§	5.95	26.78	47.60	1,000	208.00	NR6012T100ME
22	20%	0.636	630	587-2029-1-ND§	5.95	26.78	47.60	1,000	208.00	NR6012T220ME
47	20%	1.26	460	587-2030-1-ND§	5.95	26.78	47.60	1,000	208.00	NR6012T470ME
100	20%	2.616	320	587-2031-1-ND§	5.95	26.78	47.60	1,000	208.00	NR6012T101ME
NEW! NR6020 Type NEW!										
0.8	30%	0.026	3800	587-2070-1-ND	5.25	23.63	42.00	2,500	184.00/M	NR6020T0R8N
2.2	30%	0.0442	2700	587-2071-1-ND	5.25	23.63	42.00	2,500	184.00/M	NR6020T2R2N
4.7	30%	0.0754	2000	587-2072-1-ND	5.25	23.63	42.00	2,500	184.00/M	NR6020T4R7N
10	20%	0.1625	1400	587-2073-1-ND	5.25	23.63	42.00	2,500	184.00/M	NR6020T100M
NEW! NR6045 Type NEW!										
1.0	30%	0.0182	4200	587-2074-1-ND	4.75	21.38	38.00	1,500	166.00/M	NR6045T1R0N
1.3	30%	0.0208	4000	587-2075-1-ND	4.75	21.38	38.00	1,500	166.00/M	NR6045T1R3N
1.8	30%	0.0234	3700	587-2076-1-ND	4.75	21.38	38.00	1,500	166.00/M	NR6045T1R8N
2.3	30%	0.0273	3500	587-2077-1-ND	4.75	21.38	38.00	1,500	166.00/M	NR6045T2R3N
3.0	30%	0.0312	3200	587-2078-1-ND	4.75	21.38	38.00	1,500	166.00/M	NR6045T3R0N
4.5	20%	0.0403	3000	587-2079-1-ND	4.75	21.38	38.00	1,500	166.00/M	NR6045T4R5M
6.3	20%	0.0494	2800	587-2080-1-ND	4.75	21.38	38.00	1,500	166.00/M	NR6045T6R3M
10	20%	0.0611	2500	587-2081-1-ND	4.75	21.38	38.00	1,500	166.00/M	NR6045T100M
22	20%	0.1495	1500	587-2082-1-ND	4.75	21.38	38.00	1,500	166.00/M	NR6045T220M
47	20%	0.286	1100	587-2083-1-ND	4.75	21.38	38.00	1,500	166.00/M	NR6045T470M
100	20%	0.65	700	587-2084-1-ND	4.75	21.38	38.00	1,500	166.00/M	NR6045T101M
NR8040 Type										
0.9	30%	0.0078	7800	587-1995-1-ND	6.75	30.38	54.00	1,000	236.00	NR8040T0R9N
1.4	30%	0.0091	7000	587-1996-1-ND	6.75	30.38	54.00	1,000	236.00	NR8040T1R4N
2.0	30%	0.0117	6300	587-1997-1-ND	6.75	30.38	54.00	1,000	236.00	NR8040T2R0N
3.6	30%	0.0195	4900	587-1998-1-ND	6.75	30.38	54.00	1,000	236.00	NR8040T3R6N
4.7	30%	0.0234	4100	587-1999-1-ND	6.75	30.38	54.00	1,000	236.00	NR8040T4R7N
6.8	30%	0.0325	3700	587-2000-1-ND	6.75	30.38	54.00	1,000	236.00	NR8040T6R8N
10	20%	0.0442	3100	587-2001-1-ND	6.75	30.38	54.00	1,000	236.00	NR8040T100M
22	20%	0.0858	2200	587-2002-1-ND	6.75	30.38	54.00	1,000	236.00	NR8040T220M
47	20%	0.195	1400	587-2003-1-ND	6.75	30.38	54.00	1,000	236.00	NR8040T470M
100	20%	0.377	1000	587-2004-1-ND	6.75	30.38	54.00	1,000	236.00	NR8040T101M

‡ For Tape and Reel part number, change 1-ND to 2-ND. § ***NEW!***

NR10050 Series

Features: • High current • Simple and original magnetic shield structure

Applications: • Power supply circuits • DC/DC converters in a variety of applications such as PDP TV, LCD TV, HCC, PC

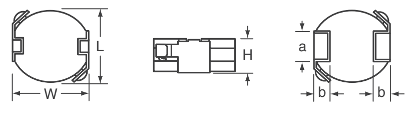

Dimensions – Inch (mm)				
L	**W**	**H - Maximum**	**a**	**b**
0.394±0.012 (10.0±0.3)	0.386±0.02 (9.8±0.5)	0.197 (5.0)	0.16 (4.0)	0.07 (1.75)

Inductance (µH)	Tolerance	DC Resistance (Ω)	Max. Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Tape & Reel‡ Qty.	Pricing	Taiyo Yuden Part No.
2.1	30%	0.008	8300	587-1693-1-ND	11.00	49.50	88.00	500	192.50	NR10050T2R1N
2.9	30%	0.0093	7300	587-1694-1-ND	11.00	49.50	88.00	500	192.50	NR10050T2R9N
3.8	30%	0.013	6800	587-1695-1-ND	11.00	49.50	88.00	500	192.50	NR10050T3R8N
4.9	30%	0.015	6000	587-1696-1-ND	11.00	49.50	88.00	500	192.50	NR10050T4R9N
6.5	30%	0.018	5200	587-1697-1-ND	11.00	49.50	88.00	500	192.50	NR10050T6R5N
10	20%	0.025	4100	587-1698-1-ND	11.00	49.50	88.00	500	192.50	NR10050T100M
22	20%	0.045	2500	587-1699-1-ND	11.00	49.50	88.00	500	192.50	NR10050T220M
47	20%	0.092	1800	587-1700-1-ND	11.00	49.50	88.00	500	192.50	NR10050T470M
100	20%	0.209	1200	587-1701-1-ND	11.00	49.50	88.00	500	192.50	NR10050T101M
220	20%	0.45	800	587-1702-1-ND	11.00	49.50	88.00	500	192.50	NR10050T221M

‡ For Tape and Reel part number, change 1-ND to 2-ND.

TOKO

Fixed Surface Mount Inductors

32CS, 33CS, 36CS, D73F, D75C, D75F, D52FU, D62CB, D10F and D32FU Types

Features: 32CS: • For dip-soldering type • Very small

33CS, 36CS: • High current • High Q for reflow soldering

D73F, D75F/C: • Miniature surface mount type • Low profile (3.2 or 4.8mm height) • Available in magnetically shielded or unshielded versions • Operating Temperature: -40°C ~ 80°C • Step up/Step down inductor for up to 4W DC/DC converter circuit • Current limiting inductor for DC/AC inverter circuit

D52FU: • Low profile (2.2mm typical height) and 5mm square • Ideal for IC inverter EL lamp driver applications • Magnetically shielded version • Available on tape and reel for auto-insertion • Suitable for reflow soldering

D62CB (with Ferrite Shield): • Low profile (2.5mm maximum) • Ideal for a variety of DC-DC converter inductor applications • Magnetically shielded

D10F: • Low profile SMD type (5mm high) • Suitable for large current • Suitable for reflow soldering

D32FU: • Low profile (2.2mm maximum) and 3.5mm square • Ideal for IC inverter EL lamp driver applications • Available on tape and reel for auto-insertion • Suitable for reflow soldering

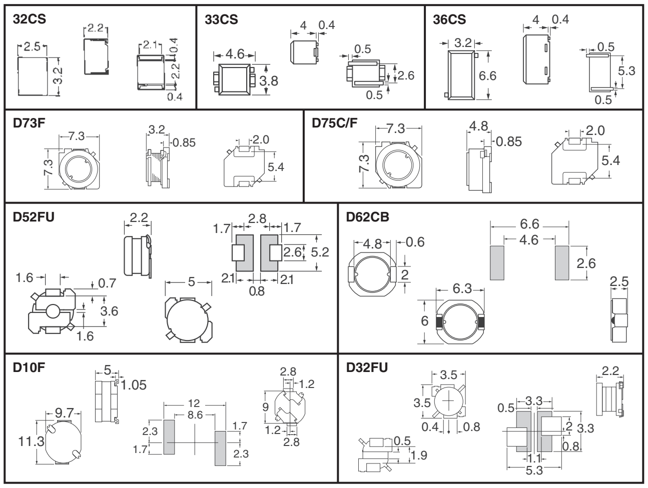

Induct. L Nom.	L Tol. (%)	Q Min	Test Frequency	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Qty.	Pricing	Toko Part No.
32CS Type											
68nH	±20	26	100MHz	320mA	TKS1011CT-ND	1.50	1.16	.87	1,500	524.00/M	380NB-68NM
1.0µH	±10	30	7.96MHz	235mA	TKS1025CT-ND	1.50	1.16	.87	1,500	524.00/M	380LB-1R0K
220µH	±5	18	.796MHz	30.0mA	TKS1053CT-ND	1.50	1.16	.87	—	—	380HB-221J
33CS Type											
6.8nH	±10	70	150MHz	1000mA	TKS2673CT-ND	1.01	.78	.59	2,000	760.00/M	Y655LY-01K
15.3nH	±10	75	150MHz	1000mA	TKS2675CT-ND	2.18	1.68	1.26	—	—	Y655LY-03K
36CS Type											
22nH	±10	85	150MHz	1000mA	TKS2677CT-ND	2.13	1.64	1.23	2,000	820.00/M	656LZ-05K
27.5nH	±10	85	150MHz	1000mA	TKS2678CT-ND	2.13	1.64	1.23	2,000	820.00/M	656LZ-06K

Induct. L Nom.	L Tol. (%)	Test Frequency	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Pricing 1,000	Toko Part No.
D73F Type, Unshielded									
10µH	±20	100kHz	1.41A	TKS2526CT-ND	3.17	2.44	1.83	—	636FY-100M
68µH	±20	100kHz	.49A	TKS2536CT-ND	3.17	2.44	1.83	1110.00	636FY-680M
82µH	±20	100kHz	.44A	TKS2537CT-ND	2.27	1.75	1.32	—	636FY-820M
100µH	±20	100kHz	.38A	TKS2538CT-ND	3.17	2.44	1.83	1110.00	636FY-101M
D75C Type, with Ferrite Shield									
120µH	± 20	100kHz	0.47A	TKS2560CT-ND	3.17	2.44	1.83	—	646CY-121M
D75F Type, Unshielded									
180µH	±10	100kHz	0.35A	TKS2553CT-ND	3.54	2.72	2.04	—	646FY-181K
220µH	±10	100kHz	0.29A	TKS2554CT-ND	3.54	2.72	2.04	1240.00	646FY-221K
270µH	±10	100kHz	0.28A	TKS2555CT-ND	3.54	2.72	2.04	—	646FY-271K
390µH	±10	100kHz	0.215A	TKS2557CT-ND	3.54	2.72	2.04	1360.00	646FY-391K
470µH	±10	100kHz	0.195A	TKS2558CT-ND	3.54	2.72	2.04	1240.00	646FY-471K

Induct. L Nom.	L Tol. (%)	SRF (MHz)	DC Resistance (Ω)	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Pricing 2,000	Toko Part No.
D52FU Type										
470µH	±20	5.17	6.78	140mA	TKS3500CT-ND	1.88	1.41	1.30	801.00/M	875FU-471M
680µH	±20	4.27	10.79	115mA	TKS3502CT-ND	1.88	1.41	1.30	801.00/M	875FU-681M
820µH	±20	3.94	12.35	105mA	TKS3503CT-ND	1.88	1.41	1.30	801.00/M	875FU-821M
1200µH	±20	3.17	18.64	88mA	TKS3505CT-ND	1.88	1.41	1.30	801.00/M	875FU-122M
3900µH	±20	1.81	58.84	50mA	TKS3511CT-ND	1.88	1.41	1.30	801.00/M	875FU-392M

Induct. L (µH)	L Tol. (%)	DC Resistance (mΩ)	Max. DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Pricing 1,500	Toko Part No.
D62CB Type									
27.0	±20	170	0.64A	TKS5521CT-ND	3.22	2.48	1.86	—	A920CY-270M
39.0	±20	245	0.53A	TKS5523CT-ND	3.22	2.48	1.86	1128.00/M	A920CY-390M

Induct. L (µH)	L Tol. (%)	Test Freq.	DC Resistance (Ω)	Max. DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Pricing 500	Toko Part No.
D10F Type										
12	±20	100kHz	0.050	2.48A	TKS5461CT-ND	4.78	3.68	2.76	1050.00	A814AY-120M
15	±20	100kHz	0.058	2.27A	TKS5462CT-ND	4.78	3.68	2.76	1050.00	A814AY-150M
18	±20	100kHz	0.067	2.15A	TKS5463CT-ND	4.78	3.68	2.76	—	A814AY-180M
33	±20	100kHz	0.095	1.72A	TKS5466CT-ND	4.78	3.68	2.76	—	A814AY-330M
39	±20	100kHz	0.12	1.58A	TKS5467CT-ND	4.78	3.68	2.76	—	A814AY-390M
180	±10	100kHz	0.53	0.73A	TKS5475CT-ND	4.78	3.68	2.76	—	A814AY-181K
390	±10	100kHz	1.09	0.49A	TKS5479CT-ND	4.78	3.68	2.76	1050.00	A814AY-391K
560	±10	100kHz	1.63	0.41A	TKS5481CT-ND	4.78	3.68	2.76	—	A814AY-561K
1200	±10	100kHz	3.67	0.27A	TKS5485CT-ND	4.78	3.68	2.76	—	A814AY-122K

Induct. L (mH)	L Tol. (%)	DC Resistance (Ω)	Max. DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Pricing 2,000	Toko Part No.
D32FU Type									
0.39	±20	12	98mA	TKS5531CT-ND	2.13	1.64	1.23	—	887FU-391M
0.47	±20	14	90mA	TKS5532CT-ND	2.13	1.64	1.23	—	887FU-471M
0.68	±20	20	74mA	TKS5534CT-ND	2.13	1.64	1.23	660.00/M	887FU-681M
0.82	±20	30	71mA	TKS5535CT-ND	2.13	1.64	1.23	660.00/M	887FU-821M
1.2	±20	35	57mA	TKS5537CT-ND	2.13	1.64	1.23	820.00/M	887FU-122M
1.8	±20	59	46mA	TKS5539CT-ND	2.13	1.64	1.23	820.00/M	887FU-182M
2.5	±20	81	42mA	TKS5541CT-ND	2.13	1.64	1.23	820.00/M	887FU-252M
2.7	±20	93	38mA	TKS5542CT-ND	2.13	1.64	1.23	—	887FU-272M

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Inductors

LL1005FH, LL1608F, LL1608FH, LL2012F, PTL1608F and PTL2012F Types

FEATURES:

LL1005FH – World's smallest chip inductor For reflow soldering • Temperature Coefficient: +250ppm/°C maximum • Temperature Range: -40°C ~ 100°C • Miniature size (1.0mm x 0.5mm)

LL1608F and LL2012F – For reflow soldering • Temperature Coefficient: +250ppm/°C maximum • Temperature Range: -40°C ~ 100°C • Laminated ceramic allows high SRF

PTL1608 and PTL2012 – Are photolithographically etched single layer ceramic chip inductor providing high SRF, excellent Q, and superior temperature stability. Highly stable and specifically designed for critical tolerance inductor needs. Solves the tight tolerance needs of GaAs matching and VCO circuits. Tolerance: C=±0.2nH, S=±0.3nH, T=3%

LL1005FH

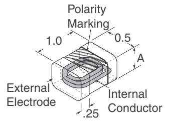

0402 Package

LL1608F, LL1608FH, PTL1608F

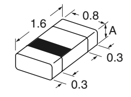

0603 Package

LL2012F, PTL2012F

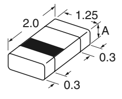

0805 Package

Dim. A (mm)	Lo (nH)	Toler-ance	Typ. (Q)	Typ. SRF (MHz)	Max. IDC (mA)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Tape & Reel‡ Qty.	Pricing	Toko Part No.
LL1005FH — RoHS Compliant												
0.50	4.7	±10%	28	4300	300	TKS2588CT-ND	.60	.56	.28	—	—	LL1005-FH4N7K
0.50	6.8	±10%	28	3650	300	TKS2590CT-ND	.60	.56	.28	—	—	LL1005-FH6N8K
0.50	8.2	±10%	28	3200	300	TKS2591CT-ND	.60	.56	.28	—	—	LL1005-FH8N2K
0.50	10	±10%	23	2800	300	TKS2592CT-ND	.60	.56	.28	10,000	159.00/M	LL1005-FH10NK
0.50	18	±10%	17	2000	300	TKS2595CT-ND	.60	.56	.28	—	—	LL1005-FH18NK
0.50	22	±10%	23	1800	300	TKS2596CT-ND	.60	.56	.28	—	—	LL1005-FH22NK
LL1608F												
0.80	3.9	±10%	31	5700	300	TKS2340CT-ND	.68	.61	.30	—	—	LL1608-F3N9K
0.80	12	±10%	24	2750	300	TKS2346CT-ND	.68	.61	.30	4,000	210.00/M	LL1608-F12NK
0.80	18	±10%	24	2300	300	TKS2348CT-ND	.68	.61	.30	4,000	210.00/M	LL1608-F18NK
0.80	33	±10%	24	1500	300	TKS2351CT-ND	.68	.61	.30	4,000	210.00/M	LL1608-F33NK
0.80	39	±10%	20	1300	300	TKS2352CT-ND	.68	.61	.30	—	—	LL1608-F39NK
LL1608FH												
0.80	1.5	±0.3nH	13	>6000	1000	TKS3701CT-ND	.68	.61	.30	—	—	LL1608-FH1N5S
PTL1608F												
0.50	1.5	±0.2nH	9	10000	800	TKS2902CT-ND	.75	.67	.33	—	—	PTL1608-F1N5C
0.50	2.2	±0.2nH	9	8400	650	TKS2904CT-ND	.75	.67	.33	6,000	233.00/M	PTL1608-F2N2C
0.50	3.3	±0.2nH	9	6600	500	TKS2906CT-ND	.75	.67	.33	—	—	PTL1608-F3N3C
0.50	5.6	±0.2nH	10	4700	400	TKS2909CT-ND	.75	.67	.33	—	—	PTL1608-F5N6C
0.50	8.2	±0.3nH	9	3750	300	TKS2911CT-ND	.75	.67	.33	—	—	PTL1608-F8N2S
0.50	15	3%	8	2650	200	TKS2914CT-ND	.90	.81	.40	6,000	210.00/M	PTL1608-F15NT

‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

TOKO Surface Mount Inductors *(Cont.)*

Dim. A (mm)	Lo (nH)	Toler-ance	Typ. (Q)	Typ. SRF (MHz)	Max. IDC (mA)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Tape & Reel‡ Qty.	Pricing	Toko Part No.
LL2012F												
0.60	1.8	±0.3nH	42	6000	300	TKS2360CT-ND	.90	.81	.40	4,000	280.00/M	LL2012-F1N8S
PTL2012F												
0.50	1.0	±0.2nH	11	10000	1300	TKS2950CT-ND	.98	.88	.43	—	—	PTL2012-F1N0C
0.50	1.2	±0.2nH	10	9000	1100	TKS2951CT-ND	.98	.88	.43	—	—	PTL2012-F1N2C
0.50	1.5	±0.2nH	8	8500	800	TKS2952CT-ND	.98	.88	.43	6,000	303.00/M	PTL2012-F1N5C
0.50	1.8	±0.2nH	9	8000	800	TKS2953CT-ND	.98	.88	.43	—	—	PTL2012-F1N8C
0.50	2.2	±0.2nH	10	7000	750	TKS2954CT-ND	.98	.88	.43	—	—	PTL2012-F2N2C
0.50	6.8	±0.3nH	10	3600	450	TKS2960CT-ND	.90	.81	.40	—	—	PTL2012-F6N8S
0.50	12	3%	12	2500	350	TKS2963CT-ND	.90	.81	.40	—	—	PTL2012-F12NT
0.50	22	3%	12	1800	250	TKS2966CT-ND	.90	.81	.40	—	—	PTL2012-F22NT
0.50	27	3%	12	1650	200	TKS2967CT-ND	.90	.81	.40	—	—	PTL2012-F27NT
0.50	56	3%	11	1070	120	TKS2971CT-ND	.90	.81	.40	—	—	PTL2012-F56NT
0.50	68	3%	11	950	100	TKS2972CT-ND	.90	.81	.40	—	—	PTL2012-F68NT

‡ For Tape and Reel part number, change CT-ND to TR-ND.

43FS, 5CCD and 5CCE Types

43FS

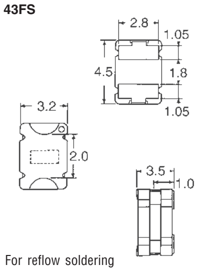

For reflow soldering type. Small size.

5CCD

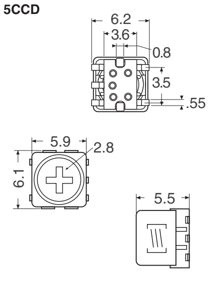

5CCE

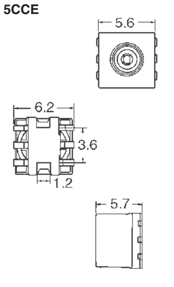

TK9999-ND Ceramic Driver Holder **$4.16**

L Nom.	Q Min.	Test Freq.	Rated DC Current	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel‡ Qty.	Pricing	Toko Part No.
43FS Type										
.22µH ± 20%	22	25.2MHz	190mA	TKS1205CT-ND	1.50	11.52	86.40	—	—	300NS-R22M
.68µH ± 20%	18	25.2MHz	140mA	TKS1211CT-ND	1.50	11.52	86.40	—	—	300NS-R68M
.82µH ± 20%	17	25.2MHz	135mA	TKS1212CT-ND	1.50	11.52	86.40	—	—	300NS-R82M
1.2µH ± 10%	50	7.96MHz	240mA	TKS1214CT-ND	2.81	21.60	162.00	500	540.00	300LS-1R2K
1.5µH ± 10%	50	7.96MHz	230mA	TKS1215CT-ND	2.81	21.60	162.00	—	—	300LS-1R5K
1.8µH ± 10%	50	7.96MHz	220mA	TKS1216CT-ND	2.81	21.60	162.00	500	540.00	300LS-1R8K
18.0µH ± 10%	50	2.52MHz	125mA	TKS1228CT-ND	2.81	21.60	162.00	500	575.00	300LS-180K
22.0µH ± 10%	50	2.52MHz	115mA	TKS1229CT-ND	2.81	21.60	162.00	—	—	300LS-220K
68.0µH ± 10%	50	2.52MHz	75mA	TKS1235CT-ND	2.81	21.60	162.00	500	575.00	300LS-680K
82.0µH ± 10%	50	2.52MHz	75mA	TKS1236CT-ND	2.81	21.60	162.00	500	540.00	300LS-820K
120µH ± 5%	50	796kHz	70mA	TKS1238CT-ND	2.81	21.60	162.00	500	575.00	300HS-121J
180µH ± 5%	50	796kHz	60mA	TKS1240CT-ND	2.81	21.60	162.00	500	540.00	300HS-181J
220µH ± 5%	50	796kHz	60mA	TKS1241CT-ND	2.81	21.60	162.00	—	—	300HS-221J
330µH ± 5%	50	796kHz	50mA	TKS1243CT-ND	2.81	21.60	162.00	500	575.00	300HS-331J
470µH ± 5%	50	796kHz	45mA	TKS1245CT-ND	2.81	21.60	162.00	500	575.00	300HS-471J
5CCD Type										
22.0µH ± 3%	45	2.52MHz	—	TKS2258CT-ND	3.32	25.68	194.40	1,000	1168.00	614BN-9220Z
82.0µH ± 3%	30	2.52MHz	—	TKS2265CT-ND	3.32	25.68	194.40	1,000	1284.00	614AN-9820Z
120µH ± 3%	45	796kHz	—	TKS2267CT-ND	3.32	25.68	194.40	1,000	1168.00	614AN-9121Z
180µH ± 3%	45	796kHz	—	TKS2269CT-ND	3.32	25.68	194.40	—	—	614AN-9181Z
390µH ± 3%	45	796kHz	—	TKS2273CT-ND	3.32	25.68	194.40	1,000	1168.00	614AN-9391Z
560µH ± 3%	45	796kHz	—	TKS2275CT-ND	3.32	25.68	194.40	1,000	1284.00	614AN-9561Z
5CCE Type										
82nH ± 5%	63	100MHz	—	TKS2421CT-ND	5.80	46.40	348.00	750	2122.50	A638AN-0151Z
270nH ± 5%	72	100MHz	—	TKS2427CT-ND	5.80	46.40	348.00	—	—	A638AN-0157Z
820nH ± 5%	48	30MHz	—	TKS2433CT-ND	5.80	46.40	348.00	—	—	A638AN-0163Z
1000nH ± 5%	50	30MHz	—	TKS2434CT-ND	5.80	46.40	348.00	—	—	A638AN-0164Z
1500nH ± 5%	48	30MHz	—	TKS2436CT-ND	5.80	46.40	348.00	750	1305.00	A638AN-0166Z

‡ For Tape and Reel part number, change CT-ND to TR-ND.

FSLU, FSLM, 3DF and 5CA Types

Features: FSLU – Conforms to EIA Standard 1008 footprint • Typical maximum Q: 40-50 • Proprietary wire-wound structure with welded terminations offers high reliability. • Operating Temperature Range: -40°C ~ 85°C • Superior solderability and high heat-resistance for flow and reflow soldering **FSLM** – Ferrite core wirewound inductor conforms to EIA Standard 1008 footprint. • Proprietary welded termination offers superior reliability and high heat-resistance for flow and reflow soldering capability. • Recommended for general signal conditioning, RF or IF filtering applications and as matching elements

FSLU
1008 Package

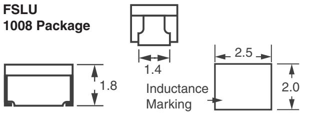

FSLM 1008 Package

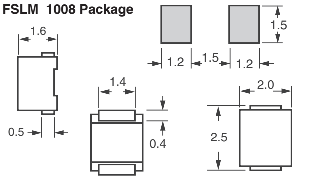

3DF

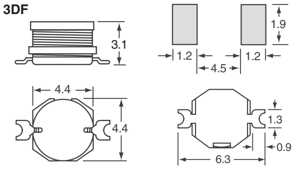

5CA

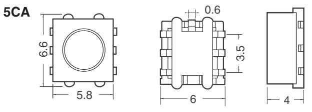

L Nom.	Tol.	Q Min.	Test Freq.	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Pricing 2,000	Toko Part No.
FSLU Type										
.012µH	±10%	15	100MHz	690mA	TKS2650CT-ND	1.36	1.20	1.08	320.00/M	FSLU2520-12NK
.015µH	±10%	15	100MHz	660mA	TKS2651CT-ND	1.36	1.20	1.08	320.00/M	FSLU2520-15NK
.018µH	±10%	15	100MHz	600mA	TKS2652CT-ND	1.36	1.20	1.08	320.00/M	FSLU2520-18NK
.022µH	±10%	15	100MHz	550mA	TKS2653CT-ND	1.36	1.20	1.08	320.00/M	FSLU2520-22NK
.027µH	±10%	15	100MHz	520mA	TKS2654CT-ND	1.36	1.20	1.08	320.00/M	FSLU2520-27NK
.033µH	±10%	20	100MHz	480mA	TKS2655CT-ND	1.36	1.20	1.08	—	FSLU2520-33NK
.039µH	±10%	20	100MHz	460mA	TKS2656CT-ND	1.36	1.20	1.08	—	FSLU2520-39NK
.047µH	±10%	20	100MHz	440mA	TKS2657CT-ND	1.36	1.20	1.08	320.00/M	FSLU2520-47NK
.056µH	±10%	20	100MHz	420mA	TKS2658CT-ND	1.36	1.20	1.08	—	FSLU2520-56NK
.082µH	±10%	20	100MHz	390mA	TKS2660CT-ND	1.36	1.20	1.08	240.00/M	FSLU2520-82NK
0.1µH	±10%	30	25.2MHz	540mA	TKS2661CT-ND	1.36	1.20	1.08	260.00/M	FSLU2520-R10K
.12µH	±10%	30	25.2MHz	500mA	TKS2662CT-ND	1.36	1.20	1.08	—	FSLU2520-R12K
.15µH	±10%	30	25.2MHz	480mA	TKS2663CT-ND	1.36	1.20	1.08	—	FSLU2520-R15K
.18µH	±10%	30	25.2MHz	430mA	TKS2664CT-ND	1.36	1.20	1.08	260.00/M	FSLU2520-R18K
.22µH	±10%	30	25.2MHz	420mA	TKS2665CT-ND	1.36	1.20	1.08	—	FSLU2520-R22K
.27µH	±10%	30	25.2MHz	410mA	TKS2666CT-ND	1.36	1.20	1.08	240.00/M	FSLU2520-R27K
.68µH	±10%	30	25.2MHz	320mA	TKS2671CT-ND	1.36	1.20	1.08	—	FSLU2520-R68K
1.2µH	±5%	25	7.96MHz	235mA	TKS2621CT-ND	1.36	1.20	1.08	260.00/M	FSLU2520-1R2J
1.8µH	±5%	25	7.96MHz	220mA	TKS2623CT-ND	1.36	1.20	1.08	260.00/M	FSLU2520-1R8J
2.7µH	±5%	25	7.96MHz	200mA	TKS2625CT-ND	1.36	1.20	1.08	—	FSLU2520-2R7J
3.9µH	±5%	25	7.96MHz	185mA	TKS2627CT-ND	1.36	1.20	1.08	240.00/M	FSLU2520-3R9J
5.6µH	±5%	20	7.96MHz	175mA	TKS2629CT-ND	1.36	1.20	1.08	260.00/M	FSLU2520-5R6J
8.2µH	±5%	20	7.96MHz	160mA	TKS2631CT-ND	1.36	1.20	1.08	—	FSLU2520-8R2J
18µH	±5%	20	2.52MHz	135mA	TKS2635CT-ND	1.36	1.20	1.08	260.00/M	FSLU2520-180J
47µH	±5%	20	2.52MHz	80mA	TKS2640CT-ND	1.36	1.20	1.08	240.00/M	FSLU2520-470J
100µH	±5%	15	0.796MHz	60mA	TKS2644CT-ND	1.36	1.20	1.08	—	FSLU2520-101J
120µH	±5%	15	0.796MHz	52mA	TKS2645CT-ND	1.36	1.20	1.08	240.00/M	FSLU2520-121J
FSLM Type										
0.12µH	±5%	30	25.2MHz	550mA	TKS3601CT-ND	.85	.75	.67	—	FSLM2520-R12J
0.15µH	±5%	30	25.2MHz	500mA	TKS3602CT-ND	.85	.75	.67	250.00/M	FSLM2520-R15J
0.18µH	±5%	30	25.2MHz	460mA	TKS3603CT-ND	.85	.75	.67	250.00/M	FSLM2520-R18J
0.56µH	±5%	30	25.2MHz	330mA	TKS3608CT-ND	.85	.75	.67	250.00/M	FSLM2520-R56J
1.5µH	±5%	30	7.96MHz	230mA	TKS3613CT-ND	.85	.75	.67	250.00/M	FSLM2520-1R5J
3DF Type										
95µH	—	—	100kHz	21mA	TKS1200-ND	1.31	1.30	1.22	—	682AE-014=P3
5CA Type										
1.2 mH	—	70	252kHz	54mA	TKS2318CT-ND	4.46	3.54	2.59	1700.00/M	395GN-0091IB=P3

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Fixed Inductors

7BA

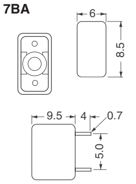

8RB

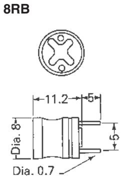

10RHB2

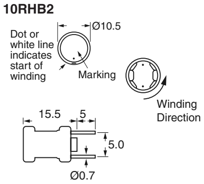

10RB

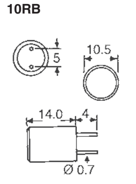

L. Nom.	Test Freq.	Q. Min.	Rated DC Current	Digi-Key Part No.	Price Each 1	10	100	500	Toko Part No.
7BA Type									
1.6µH	7.96MHz	30	30mA	TK4205-ND	.56	.50	.45	.42	144LY-1R6K
3.3µH	7.96MHz	30	30mA	TK4212-ND	1.95	1.45	1.31	.98	144LY-3R3K
8.2µH	7.96MHz	30	30mA	TK4222-ND	1.95	1.45	1.31	.98	144LY-8R2K
8RB Type									
.22mH	796kHz	80	200mA	TK4304-ND	.76	.68	.61	.56	187LY-221J
6.8mH	252kHz	90	50mA	TK4322-ND	2.04	1.67	.83	.70	187LY-682J

(Continued)

Fixed Inductors *(Cont.)*

L. Nom.	Test Freq.	SRF	Rated DC Current	Digi-Key Part No.	Price Each 1	10	100	500	Toko Part No.
10RHB2 Type									
18µH	1kHz	16.0MHz	1.77A	TK5155-ND	5.57	4.77	2.25	1.89	824MY-180K
27µH	1kHz	8.30MHz	1.56A	TK5157-ND	5.57	4.77	2.25	1.89	824MY-270K
82µH	1kHz	3.60MHz	1.04A	TK5163-ND	5.57	4.77	2.25	1.89	824MY-820K
1200µH	1kHz	0.83MHz	0.28A	TK5177-ND	5.57	4.77	2.25	1.89	824MY-122K
1800µH	1kHz	0.71MHz	0.24A	TK5179-ND	5.57	4.77	2.25	1.89	824MY-182K
2700µH	1kHz	0.61MHz	0.19A	TK5181-ND	5.57	4.77	2.25	1.89	824MY-272K

L. Nom.	Test Freq.	Q. Min.	Rated DC Current	Digi-Key Part No.	Price Each 1	10	100	500	Toko Part No.
10RB Type									
2.2mH	50kHz	70	60mA	TK4404-ND	3.75	3.06	1.52	1.28	181LY-222J

Coils

Diagrams

A.

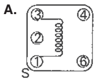

B.

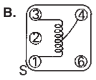

5K

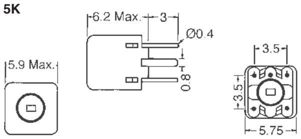

5P, 5PH

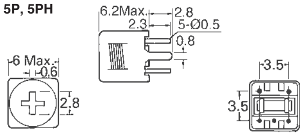

7KMM

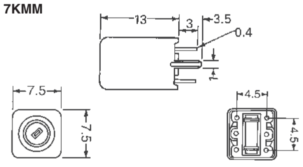

7P, 7PA, 7PH

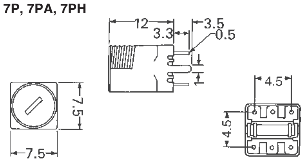

10K

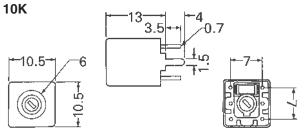

10PA

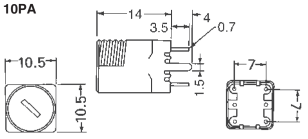

TK9999-ND Ceramic Driver Holder **$4.16**

Dia-gram	L Nom.	Test Freq.	Q. Min.	Digi-Key Part No.	Pricing 1	10	100	500	Toko Part No.
5K Type									
A	.08µH	75.0MHz	45	TK5001-ND	4.85	41.23	325.80	974.50	294SN-T1008Z
	.22µH	45.0MHz	45	TK5004-ND	4.85	41.23	325.80	974.50	294SN-T1011Z
	.33µH	45.0MHz	45	TK5005-ND	4.85	41.23	325.80	974.50	294SN-T1012Z
	.47µH	45.0MHz	45	TK5006-ND	4.85	41.23	325.80	974.50	294SN-T1013Z
	.68µH	45.0MHz	45	TK5007-ND	4.85	41.23	325.80	974.50	294SN-T1014Z
5P Type									
A	33µH	2.52MHz	40	TK5110-ND	5.14	44.28	350.00	1040.00	5PNR-T1005Z
	39µH	2.52MHz	40	TK5111-ND	5.14	44.28	350.00	1040.00	5PNR-T1006Z
	82µH	2.52MHz	40	TK5115-ND	5.14	44.28	350.00	1040.00	5PNR-T1010Z
	120µH	.796MHz	40	TK5117-ND	5.14	44.28	350.00	1040.00	5PNR-T1012Z
	150µH	.796MHz	40	TK5118-ND	5.14	44.28	350.00	1040.00	5PNR-T1013Z
	390µH	.796MHz	40	TK5123-ND	5.14	44.28	350.00	1040.00	5PNR-T1018Z
	470µH	.796MHz	40	TK5124-ND	5.14	44.28	350.00	1040.00	5PNR-T1019Z
	560µH	.796MHz	40	TK5125-ND	5.14	44.28	350.00	1040.00	5PNR-T1020Z
5PH Type									
A	1.5µH	7.96MHz	55	TK5132-ND	4.21	36.23	287.00	855.00	332PN-T1014Z
	1.8µH	7.96MHz	55	TK5133-ND	4.21	36.23	287.00	855.00	332PN-T1015Z
	3.9µH	7.96MHz	55	TK5137-ND	4.21	36.23	287.00	855.00	332PN-T1019Z
7KMM Type									
A	0.15µH	50.0MHz	35	TK3102-ND	5.61	48.30	383.00	1140.00	292KNAS-T1030Z
	0.33µH	50.0MHz	50	TK3104-ND	5.61	48.30	383.00	1140.00	292KNAS-T1034Z
	0.68µH	50.0MHz	50	TK3106-ND	5.61	48.30	383.00	1140.00	292KNAS-T1038Z
	3.3µH	7.96MHz	40	TK3110-ND	5.61	48.30	383.00	1140.00	292CNS-T1046Z
	4.7µH	7.96MHz	40	TK3111-ND	5.61	48.30	383.00	1140.00	292CNS-T1048Z
	6.6µH	4.0MHz	85	TK3115-ND	2.10	18.90	168.00	777.00	MF292CNS-T1082Z
	0.18µH	50.0MHz	35	TK3117-ND	5.61	48.30	383.00	1140.00	292KNAS-T1031Z
	0.27µH	50.0MHz	50	TK3118-ND	5.61	48.30	383.00	1140.00	292KNAS-T1033Z
	0.39µH	50.0MHz	50	TK3119-ND	5.61	48.30	383.00	1140.00	292KNAS-T1035Z
	0.56µH	50.0MHz	50	TK3120-ND	5.61	48.30	383.00	1140.00	292KNAS-T1037Z
	1.2µH	7.96MHz	40	TK3122-ND	5.61	48.30	383.00	1140.00	292CNS-T1041Z
	33.0µH	2.52MHz	35	TK3132-ND	5.61	50.40	383.00	1140.00	F292CNS-T1058Z
7KMM High Frequency Type									
A	0.10µH	80.0MHz	50	TK3139-ND	5.61	48.30	383.00	1140.00	292SNS-T1366Z
	0.15µH	80.0MHz	60	TK3140-ND	5.61	48.30	383.00	1140.00	292SNS-T1367Z
	0.22µH	80.0MHz	60	TK3141-ND	5.61	48.30	383.00	1140.00	292SNS-T1368Z
	0.47µH	50.0MHz	60	TK3143-ND	5.61	48.30	383.00	1140.00	292SNS-T1370Z
A	0.68µH	50.0MHz	60	TK3144-ND	5.61	48.30	383.00	1140.00	292SNS-T1371Z
	1.50µH	7.96MHz	40	TK3146-ND	5.61	48.30	383.00	1140.00	292KNS-T1373Z
	3.30µH	7.96MHz	40	TK3148-ND	5.61	48.30	383.00	1140.00	292KNS-T1375Z
	4.70µH	7.96MHz	40	TK3149-ND	5.61	48.30	383.00	1140.00	292KNS-T1376Z
7P Type									
A	100µH	796kHz	80	TK2417-ND	4.20	37.80	287.00	850.00	A7BRS-T1040Z
	120µH	796kHz	80	TK2418-ND	4.20	37.80	287.00	850.00	A7BRS-T1041Z
7PA Type									
A	1.8mH	252kHz	60	TK3204-ND	4.74	40.83	323.00	960.00	126ANS-T1097Z
	6.8mH	252kHz	60	TK3211-ND	4.74	40.83	323.00	960.00	126ANS-T1104Z
	10.0mH	79.6kHz	60	TK3213-ND	4.74	40.83	323.00	960.00	126ANS-T1106Z
	12.0mH	79.6kHz	60	TK3214-ND	4.74	40.83	323.00	960.00	126ANS-T1107Z
	18.0mH	79.6kHz	60	TK3216-ND	4.74	40.83	323.00	960.00	126ANS-T1109Z
	5mH	252kHz	70	TK3218-ND	4.74	40.83	323.00	960.00	126LNS-6285Z
7PH Type									
A	5.6µH	7.96MHz	80	TK2402-ND	4.31	37.38	294.00	875.00	A119ANS-T1030Z
	15.0µH	2.52MHz	80	TK2407-ND	4.31	37.38	294.00	875.00	A119ANS-T1035Z
	27.0µH	2.52MHz	80	TK2410-ND	4.31	37.38	294.00	875.00	A119ANS-T1038Z
	39.0µH	2.52MHz	80	TK2412-ND	4.31	37.38	294.00	875.00	A119ANS-T1040Z
	10.7µH	2.52MHz	95	TK2427-ND	4.31	37.38	294.00	875.00	A119ANS-17152Z
	10.7µH	2.52MHz	90	TK2428-ND	1.63	14.63	130.00	601.25	A119ANS-17153Y
	11.8µH	2.52MHz	114	TK2429-ND	1.63	14.63	130.00	601.25	A119AN-T1018Z
	10.9µH	4.4MHz	80	TK2430-ND	1.63	14.63	130.00	601.25	119LNS-A3753GO
10K Type									
A	0.15µH	75MHz	60	TK1404-ND	4.12	37.20	281.00	835.00	BTKENS-T1045Z
	1.5µH	7.96MHz	60	TK1412-ND	4.12	37.20	281.00	835.00	BTKANS-9449HM
B	66µH	2.52MHz	60	TK1421-ND	4.12	37.20	281.00	835.00	BKANS-K4087HU
10PA Type									
A	47.0mH	79.6kHz	70	TK1723-ND	3.75	33.60	255.00	760.00	CLNS-T1038Z

Molded Coils

MC120

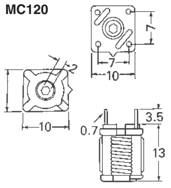

MC122

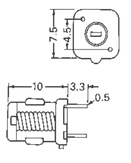

MC134

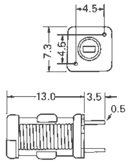

SMT MC152

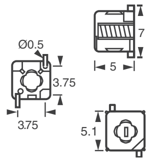

TK9996-ND Ceramic Tuning Driver (MC120) (Requires Holder TK9999-ND, below)............. **$31.39**
TK9999-ND Ceramic Driver Holder **$4.16**

Turns/ Color	L Nom.	Test Freq.	Q. Min.	Digi-Key Part No.	Pricing 1	10	100	500	Toko Part No.
MC120 with Case									
4 1/2 YEL	.141µH	100MHz	100	TK2704-ND	5.44	47.60	207.00	775.00	E526HNA-100297
7 1/2 VIO	.241µH	50MHz	80	TK2707-ND	5.44	47.60	207.00	775.00	E526HNA-100300
8 1/2 GRY	.29µH	50MHz	80	TK2708-ND	5.44	47.60	207.00	775.00	E526HNA-100301
1 1/2 BRW	.0367µH	100MHz	80	TK2710-ND	5.44	47.60	207.00	775.00	E526HNA-100310
5 1/2 GRN	.137µH	100MHz	110	TK2714-ND	5.44	47.60	207.00	775.00	E526HN-100309
MC120 without Case									
1 1/2 BRW	.0461µH	100MHz	120	TK2715-ND	5.44	47.60	207.00	775.00	E526HN-100302
2 1/2 RED	.0845µH	100MHz	130	TK2716-ND	5.44	47.60	207.00	775.00	E526HN-100303
4/1/2 YEL	.195µH	100MHz	140	TK2718-ND	5.44	47.60	207.00	775.00	E526HN-100305
7 1/2 VIO	.358µH	50MHz	100	TK2721-ND	5.44	47.60	207.00	775.00	E526HN-100308
9 1/2 WHT	.534µH	50MHz	100	TK2723-ND	5.44	47.60	207.00	775.00	E526HN-100109
1 1/2 BRW	.0437µH	100MHz	100	TK2724-ND	5.44	47.60	207.00	775.00	E526HN-100315
3 1/2 ORG	.118µH	100MHz	170	TK2726-ND	5.44	47.60	207.00	775.00	E526HN-100317
5 1/2 GRN	.211µH	100MHz	190	TK2728-ND	5.44	47.60	207.00	775.00	E526HN-100319
MC122 with Case									
2 1/2 RED	.0523µH	100MHz	80	TK2802-ND	2.96	25.90	113.00	425.00	E528SNAS-100073
3 1/2 ORG	.078µH	100MHz	90	TK2803-ND	2.96	25.90	113.00	425.00	E528SNAS-100074
MC122 without Case									
4 1/2 YEL	.137µH	100MHz	120	TK2817-ND	2.96	25.90	113.00	425.00	E528SN-100062
3 1/2 ORG	.0918µH	57MHz	100	TK2819-ND	2.96	25.90	113.00	425.00	E528SN-100064
4 1/2 YEL	.130µH	57MHz	100	TK2820-ND	2.96	25.90	113.00	425.00	E528SN-100065
10 1/2 ORG	.447µH	45MHz	70	TK2826-ND	2.96	25.90	113.00	425.00	E528SN-100071
MC134 with Case									
11 1/2 BRW	.294µH	50MHz	50	TK3002-ND	4.48	39.20	171.03	643.24	E540SNA-11003
12 1/2 RED	.317µH	50MHz	60	TK3003-ND	4.48	39.20	171.03	643.24	E540SNA-12003
13 1/2 ORG	.350µH	50MHz	60	TK3004-ND	4.48	39.20	171.03	643.24	E540SNA-13003
14 1/2 YEL	.383µH	50MHz	55	TK3005-ND	4.48	39.20	171.03	643.24	E540SNA-14002
15 1/2 GRN	.422µH	50MHz	80	TK3006-ND	4.48	39.20	171.03	643.24	E540SNA-15002
MC134 without Case									
11 1/2 BRW	.451µH	50MHz	80	TK3008-ND	4.48	39.20	171.03	643.24	E540SN-11002
12 1/2 RED	.483µH	50MHz	80	TK3009-ND	4.48	39.20	171.03	643.24	E540SN-12002
14 1/2 YEL	.603µH	50MHz	80	TK3011-ND	4.48	39.20	171.03	643.24	E540SN-14001

Turns/ Color	L Nom.	Test Freq.	Q. Min.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T & R Pricing 1,500	Toko Part No.
MC152 Ferrite Core — Surface Mount										
1 1/2 WHT	.032µH	100MHz	90	TKS2700CT-ND	3.95	34.80	310.00	TKS2700TR-ND	1580.00/M	E558CN-100020
MC152 Air Core — Surface Mount										
2 1/2 VIO	.046µH	100MHz	100	TKS2707CT-ND	1.48	13.04	98.78	—	—	E558HN-100097
4 1/2 YEL	.073µH	100MHz	105	TKS2709CT-ND	1.48	13.04	98.78	TKS2709TR-ND	1580.00/M	E558HN-100099
5 1/2 WHT	.091µH	100MHz	120	TKS2710CT-ND	1.48	13.04	98.78	—	—	E558HN-100100
MC152 Brass Core — Surface Mount										
3 1/2 ORG	.048µH	100MHz	56	TKS2714CT-ND	3.95	34.80	310.00	—	—	E558AN-100042
5 1/2 WHT	.072µH	100MHz	50	TKS2716CT-ND	2.28	20.08	152.11	—	—	E558AN-100044
6 1/2 BLU	.084µH	100MHz	50	TKS2717CT-ND	2.28	20.08	152.11	—	—	E558AN-100045

Fixed Inductors

RL181S Series: Features: • Ferrite shield for low radiation • High Q • High reliability, high efficiency • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies • DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL187 Series: Features: • High Q • High reliability, high efficiency • Winding covered with shrink tubing • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies • DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL262 Series: Features: • High Q • High reliability, high efficiency • Winding covered with shrink tubing • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies • DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL622 Series: Features: • High current capacity • Ferrite bobbin core • Low core loss • High reliability, high efficiency • Winding covered with shrink tubing • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies • DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL822 Series: Features: • High current capacity • Ferrite bobbin core • Low core loss • High reliability, high efficiency • Winding covered with shrink tubing • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies • DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL824 Series: Features: • High current capacity • Ferrite bobbin core • Low core loss • High reliability, high efficiency • Winding covered with shrink tubing • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies • DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL181S Series

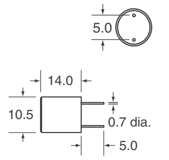

RL187 Series

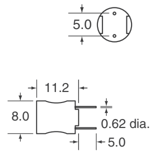

RL262 Series

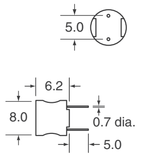

RL622 Series

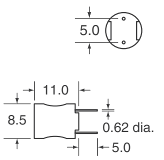

RL822 Series

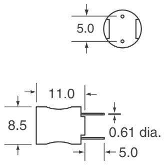

RL824 Series

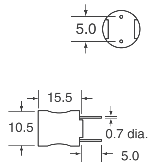

L (µH) ±5% @1kHz	Q (Min.) @50kHz	Test Freq. (kHz)	SRF (MHz) Min.	DCR (Ω) Max.	I, DC (mA)	Digi-Key Part No.	Price Each					J.W.Miller Part No.
							1	10	25	50	100	
RL181S Series												
1500	70	—	0.64	4.0	70	M10065-ND	1.98	1.49	1.12	.99	.87	RL181S-152J-RC
3300	100	—	0.44	6.1	50	M10066-ND	1.98	1.49	1.12	.99	.87	RL181S-332J-RC
5600	100	—	0.35	8.4	40	M10068-ND	1.98	1.49	1.12	.99	.87	RL181S-562J-RC
10000	100	—	0.25	12.1	25	M10070-ND	1.98	1.49	1.12	.99	.87	RL181S-103J-RC
15000	100	—	0.22	15.0	22	M10071-ND	1.98	1.49	1.12	.99	.87	RL181S-153J-RC
18000	100	—	0.19	17.0	21	M10072-ND	1.98	1.49	1.12	.99	.87	RL181S-183J-RC
33000	100	—	0.16	26.0	17	M10074-ND	1.98	1.49	1.12	.99	.87	RL181S-333J-RC
39000	100	—	0.12	45.0	15	M10075-ND	1.98	1.49	1.12	.99	.87	RL181S-393J-RC
47000	100	—	0.12	52.0	13	M10076-ND	1.98	1.49	1.12	.99	.87	RL181S-473J-RC
100000	100	—	0.09	82.0	9	M10077-ND	1.98	1.49	1.12	.99	.87	RL181S-104J-RC
120000	100	—	0.09	97	8	M10078-ND	1.98	1.49	1.12	.99	.87	RL181S-124J-RC
RL187 Series												
100	80	796	5.3	2.0	200	M10038-ND	1.18	.94	.71	.59	.47	RL187-101J-RC
150	80	796	3.8	2.0	200	M10039-ND	1.18	.94	.71	.59	.47	RL187-151J-RC
220	80	796	2.9	3.0	200	M10040-ND	1.18	.94	.71	.59	.47	RL187-221J-RC
330	80	796	2.3	4.0	200	M10041-ND	1.18	.94	.71	.59	.47	RL187-331J-RC
390	80	796	2.1	4.0	200	M10042-ND	1.18	.94	.71	.59	.47	RL187-391J-RC
470	80	796	1.9	4.0	200	M10043-ND	1.18	.94	.71	.59	.47	RL187-471J-RC
560	80	796	1.7	4.0	200	M10044-ND	1.18	.94	.71	.59	.47	RL187-561J-RC
820	80	796	1.4	6.0	200	M10046-ND	1.18	.94	.71	.59	.47	RL187-821J-RC
1200	90	252	1.2	9.0	150	M10048-ND	1.18	.94	.71	.59	.47	RL187-122J-RC
1500	90	252	1.1	9.0	150	M10049-ND	1.18	.94	.71	.59	.47	RL187-152J-RC
5600	90	252	0.5	18	50	M10055-ND	1.18	.94	.71	.59	.47	RL187-562J-RC
6800	90	252	0.5	26	50	M10056-ND	1.18	.94	.71	.59	.47	RL187-682J-RC
8200	90	252	0.4	26	50	M10057-ND	1.18	.94	.71	.59	.47	RL187-822J-RC
15000	100	79.6	0.4	60	40	M10059-ND	1.18	.94	.71	.59	.47	RL187-153J-RC
18000	100	79.6	0.3	60	30	M10060-ND	1.18	.94	.71	.59	.47	RL187-183J-RC
22000	100	79.6	0.3	80	30	M10061-ND	1.18	.94	.71	.59	.47	RL187-223J-RC
27000	100	79.6	0.3	80	30	M10062-ND	1.18	.94	.71	.59	.47	RL187-273J-RC
RL262 Series												
100	60	796	6.1	2.0	200	M10030-ND	1.18	.94	.71	.59	.47	RL262-101J-RC
470	60	796	3.2	5.0	100	M10031-ND	1.18	.94	.71	.59	.47	RL262-471J-RC
1500	80	252	1.8	11.0	50	M10033-ND	1.18	.94	.71	.59	.47	RL262-152J-RC
2200	80	252	1.5	14.0	50	M10034-ND	1.18	.94	.71	.59	.47	RL262-222J-RC
8200	80	252	0.6	45.0	30	M10035-ND	1.18	.94	.71	.59	.47	RL262-822J-RC
10000	60	79.6	0.6	55.0	20	M10036-ND	1.18	.94	.71	.59	.47	RL262-103J-RC
15000	60	79.6	0.5	80.0	20	M10037-ND	1.18	.94	.71	.59	.47	RL262-153J-RC
RL622 Series												
1.0	20	7.96	150	0.013	10	M9975-ND	1.13	.90	.68	.57	.45	RL622-1R0K-RC
1.5	20	7.96	130	0.016	8.5	M9976-ND	1.13	.90	.68	.57	.45	RL622-1R5K-RC
2.2	20	7.96	100	0.021	6.5	M9977-ND	1.13	.90	.68	.57	.45	RL622-2R2K-RC
3.3	20	7.96	79	0.025	5.5	M9978-ND	1.13	.90	.68	.57	.45	RL622-3R3K-RC
4.7	20	7.96	51	0.030	4.3	M9979-ND	1.13	.90	.68	.57	.45	RL622-4R7K-RC
6.8	20	7.96	29	0.035	3.7	M9980-ND	1.13	.90	.68	.57	.45	RL622-6R8K-RC
10	50	2.52	14	0.045	3.0	M9981-ND	1.13	.90	.68	.57	.45	RL622-100K-RC
12	50	2.52	13	0.050	2.7	M9982-ND	1.13	.90	.68	.57	.45	RL622-120K-RC
15	40	2.52	12	0.056	2.3	M9983-ND	1.13	.90	.68	.57	.45	RL622-150K-RC
18	40	2.52	11	0.061	2.2	M9984-ND	1.13	.90	.68	.57	.45	RL622-180K-RC
22	40	2.52	9.2	0.070	2.0	M9985-ND	1.13	.90	.68	.57	.45	RL622-220K-RC
27	30	2.52	8.5	0.080	1.7	M9986-ND	1.13	.90	.68	.57	.45	RL622-270K-RC
33	30	2.52	7.8	0.090	1.6	M9987-ND	1.13	.90	.68	.57	.45	RL622-330K-RC
39	30	2.52	6.9	0.10	1.5	M9988-ND	1.13	.90	.68	.57	.45	RL622-390K-RC
47	30	2.52	6.5	0.16	1.4	M9989-ND	1.13	.90	.68	.57	.45	RL622-470K-RC
56	30	2.52	5.4	0.18	1.3	M9990-ND	1.13	.90	.68	.57	.45	RL622-560K-RC
68	30	2.52	4.9	0.21	1.2	M9991-ND	1.13	.90	.68	.57	.45	RL622-680K-RC
82	30	2.52	4.1	0.23	1.1	M9992-ND	1.13	.90	.68	.57	.45	RL622-820K-RC
100	20	0.796	3.7	0.28	0.91	M9993-ND	1.13	.90	.68	.57	.45	RL622-101K-RC
120	20	0.796	3.4	0.32	0.84	M9994-ND	1.13	.90	.68	.57	.45	RL622-121K-RC
150	20	0.796	3.2	0.37	0.75	M9995-ND	1.13	.90	.68	.57	.45	RL622-151K-RC
180	20	0.796	2.8	0.58	0.69	M9996-ND	1.13	.90	.68	.57	.45	RL622-181K-RC
220	20	0.796	2.7	0.65	0.64	M9997-ND	1.13	.90	.68	.57	.45	RL622-221K-RC
270	20	0.796	2.4	0.75	0.57	M9998-ND	1.13	.90	.68	.57	.45	RL622-271K-RC
330	20	0.796	2.3	0.85	0.54	M9999-ND	1.13	.90	.68	.57	.45	RL622-331K-RC
390	20	0.796	2.1	1.0	0.48	M10000-ND	1.13	.90	.68	.57	.45	RL622-391K-RC
470	20	0.796	1.9	1.1	0.46	M10001-ND	1.13	.90	.68	.57	.45	RL622-471K-RC
560	20	0.796	1.8	1.4	0.41	M10002-ND	1.13	.90	.68	.57	.45	RL622-561K-RC
680	20	0.796	1.6	1.6	0.38	M10003-ND	1.13	.90	.68	.57	.45	RL622-681K-RC
820	20	0.796	1.5	1.8	0.35	M10004-ND	1.13	.90	.68	.57	.45	RL622-821K-RC
1000	50	0.252	1.3	2.9	0.29	M10005-ND	1.13	.90	.68	.57	.45	RL622-102K-RC
1200	50	0.252	1.1	4.0	0.13	M10006-ND	1.13	.90	.68	.57	.45	RL622-122K-RC
1500	20	0.252	1.0	6.1	0.08	M10007-ND	1.13	.90	.68	.57	.45	RL622-152K-RC
1800	20	0.252	1.0	6.4	0.08	M10008-ND	1.13	.90	.68	.57	.45	RL622-182K-RC
2200	20	0.252	0.9	6.8	0.08	M10009-ND	1.13	.90	.68	.57	.45	RL622-222K-RC
2700	20	0.252	0.9	7.7	0.08	M10010-ND	1.13	.90	.68	.57	.45	RL622-272K-RC
3300	20	0.252	0.7	9.0	0.08	M10011-ND	1.13	.90	.68	.57	.45	RL622-332K-RC
3900	20	0.252	0.6	14.0	0.08	M10012-ND	1.13	.90	.68	.57	.45	RL622-392K-RC
4700	20	0.252	0.5	16.0	0.05	M10013-ND	1.13	.90	.68	.57	.45	RL622-472K-RC
5600	20	0.252	0.4	18.0	0.05	M10014-ND	1.13	.90	.68	.57	.45	RL622-562K-RC
6800	20	0.252	0.4	19.0	0.05	M10015-ND	1.13	.90	.68	.57	.45	RL622-682K-RC
8200	20	0.252	0.3	21.0	0.05	M10016-ND	1.13	.90	.68	.57	.45	RL622-822K-RC
10000	40	0.079	0.3	25.0	0.05	M10017-ND	1.13	.90	.68	.57	.45	RL622-103K-RC
15000	40	0.079	0.2	37.0	0.04	M10019-ND	1.13	.90	.68	.57	.45	RL622-153K-RC
18000	30	0.079	0.2	40.0	0.04	M10020-ND	1.13	.90	.68	.57	.45	RL622-183K-RC
22000	30	0.079	0.1	56.0	0.03	M10021-ND	1.13	.90	.68	.57	.45	RL622-223K-RC
39000	30	0.079	0.1	80.0	0.03	M10024-ND	1.13	.90	.68	.57	.45	RL622-393K-RC
47000	20	0.079	0.1	99.0	0.03	M10025-ND	1.13	.90	.68	.57	.45	RL622-473K-RC
56000	20	0.079	01	135.0	0.02	M10026-ND	1.13	.90	.68	.57	.45	RL622-563K-RC
68000	20	0.079	0.1	150.0	0.02	M10027-ND	1.13	.90	.68	.57	.45	RL622-683K-RC
82000	20	0.079	0.1	212.0	0.02	M10028-ND	1.13	.90	.68	.57	.45	RL622-823K-RC
100000	20	0.025	0.1	235.0	0.02	M10029-ND	1.13	.90	.68	.57	.45	RL622-104K-RC
RL822 Series												
4.7	—	—	51	0.030	2.27	M9959-ND	1.18	.94	.71	.59	.47	RL822-4R7K-RC
10	—	—	14	0.045	1.96	M9960-ND	1.18	.94	.71	.59	.47	RL822-100K-RC
15	—	—	12	0.058	1.75	M9961-ND	1.18	.94	.71	.59	.47	RL822-150K-RC
47	—	—	6.5	0.17	0.79	M9963-ND	1.18	.94	.71	.59	.47	RL822-470K-RC
56	—	—	5.4	0.20	0.76	M9964-ND	1.18	.94	.71	.59	.47	RL822-560K-RC
100	—	—	3.7	0.28	0.58	M9966-ND	1.18	.94	.71	.59	.47	RL822-101K-RC
470	—	—	1.9	1.37	0.25	M9970-ND	1.18	.94	.71	.59	.47	RL822-471K-RC
560	—	—	1.8	1.53	0.23	M9971-ND	1.18	.94	.71	.59	.47	RL822-561K-RC
680	—	—	1.6	2.00	0.21	M9972-ND	1.18	.94	.71	.59	.47	RL822-681K-RC
820	—	—	1.5	2.70	0.18	M9973-ND	1.18	.94	.71	.59	.47	RL822-821K-RC
1000	—	—	1.3	2.96	0.16	M9974-ND	1.18	.94	.71	.59	.47	RL822-102K-RC
RL824 Series												
15	—	—	25	0.065	1.93	M9944-ND	1.30	.98	.74	.65	.57	RL824-150K-RC
100	—	—	2.8	0.18	1.02	M9946-ND	1.30	.98	.74	.65	.57	RL824-101K-RC
120	—	—	2.6	0.19	0.94	M9947-ND	1.30	.98	.74	.65	.57	RL824-121K-RC
220	—	—	1.9	0.28	0.82	M9949-ND	1.30	.98	.74	.65	.57	RL824-221K-RC
330	—	—	1.5	0.50	0.56	M9950-ND	1.30	.98	.74	.65	.57	RL824-331K-RC
390	—	—	1.4	0.56	0.52	M9951-ND	1.30	.98	.74	.65	.57	RL824-391K-RC
680	—	—	1.1	0.79	0.44	M9953-ND	1.30	.98	.74	.65	.57	RL824-681K-RC

J.W.Miller
MAGNETICS
A Bourns Company

Surface Mount Chip Inductors

PM1812 and PM1210 Series

RoHS COMPLIANT

PM1812 Series

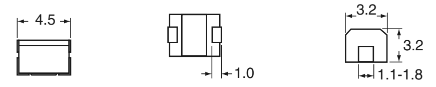

PM1210 Series

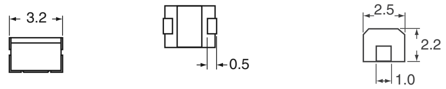

L (µH)	Q Min.	Test Frequency (MHz)	SRF (MHz) Max.	DCR (Ω) Max.	I,dc (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		J.W.Miller Part No.
							1	10	100		Qty.	Pricing	
PM1812 Series 10%													
0.10	28.00	25.20	300.00	0.18	800.00	M8526CT-ND	.45	.41	.34	M8526TR-ND	500	66.75	PM1812-R10K-RC
PM1812 Series 5%													
1.00	50.00	7.96	100.00	0.50	450.00	M8527CT-ND	.45	.41	.34	M8527TR-ND	500	66.75	PM1812-1R0J-RC
3.30	50.00	7.96	45.00	0.80	355.00	M8530CT-ND	.45	.41	.34	M8530TR-ND	500	66.75	PM1812-3R3J-RC
10.00	50.00	2.52	20.00	1.60	250.00	M8531CT-ND	.45	.41	.34	M8531TR-ND	500	66.75	PM1812-100J-RC
12.00	50.00	2.52	18.00	2.00	225.00	M8532CT-ND	.45	.41	.34	M8532TR-ND	500	66.75	PM1812-120J-RC
1000.00	30.00	0.796	2.00	2.00	40.00	M8539CT-ND	.45	.41	.34	M8539TR-ND	500	66.75	PM1812-102J-RC
PM1210 Series 5%													
1.00	28.00	7.96	120.00	0.70	400.00	M8540CT-ND	.45	.41	.34	M8540TR-ND	2,000	133.50/M	PM1210-1R0J-RC
1.50	28.00	7.96	85.00	0.85	370.00	M8541CT-ND	.45	.41	.34	M8541TR-ND	2,000	133.50/M	PM1210-1R5J-RC
2.20	30.00	7.96	75.00	1.00	320.00	M8542CT-ND	.45	.41	.34	M8542TR-ND	2,000	133.50/M	PM1210-2R2J-RC
4.70	30.00	7.96	50.00	1.70	220.00	M8543CT-ND	.45	.41	.34	M8543TR-ND	2,000	133.50/M	PM1210-4R7J-RC
5.60	30.00	7.96	47.00	1.80	200.00	M8544CT-ND	.45	.41	.34	M8544TR-ND	2,000	133.50/M	PM1210-5R6J-RC
10.00	30.00	2.52	36.00	2.50	150.00	M8545CT-ND	.45	.41	.34	M8545TR-ND	2,000	133.50/M	PM1210-100J-RC
12.00	30.00	2.52	33.00	2.80	140.00	M8546CT-ND	.45	.41	.34	M8546TR-ND	2,000	133.50/M	PM1210-120J-RC
15.00	30.00	2.52	30.00	3.20	130.00	M8547CT-ND	.45	.41	.34	M8547TR-ND	2,000	133.50/M	PM1210-150J-RC
33.00	30.00	2.52	17.00	5.60	70.00	M8548CT-ND	.45	.41	.34	M8548TR-ND	2,000	133.50/M	PM1210-330J-RC
47.00	30.00	2.52	15.00	7.00	60.00	M8549CT-ND	.45	.41	.34	M8549TR-ND	2,000	133.50/M	PM1210-470J-RC
68.00	30.00	2.52	12.00	9.00	50.00	M8550CT-ND	.45	.41	.34	M8550TR-ND	2,000	133.50/M	PM1210-680J-RC
82.00	30.00	2.52	11.00	10.00	45.00	M8551CT-ND	.45	.41	.34	—	—	—	PM1210-820J-RC
100.00	20.00	0.796	10.00	10.00	40.00	M8552CT-ND	.45	.41	.34	M8552TR-ND	2,000	133.50/M	PM1210-101J-RC
120.00	20.00	0.796	10.00	11.00	70.00	M8553CT-ND	.45	.41	.34	M8553TR-ND	2,000	133.50/M	PM1210-121J-RC
150.00	20.00	0.796	8.00	15.00	65.00	M8554CT-ND	.45	.41	.34	M8554TR-ND	2,000	133.50/M	PM1210-151J-RC
180.00	20.00	0.796	7.00	17.00	60.00	M8555CT-ND	.45	.41	.34	M8555TR-ND	2,000	133.50/M	PM1210-181J-RC
220.00	20.00	0.796	7.00	21.00	50.00	M8556CT-ND	.45	.41	.34	M8556TR-ND	2,000	133.50/M	PM1210-221J-RC

Surface Mount High Power Inductors

RoHS COMPLIANT

PM7232S, PM12639S, PM12645S, PM12651S, PM13560S and PM13666S Series

Features:

- Ideal for very high current DC/DC converter output inductors
- Magnetically shielded for low radiation
- High saturation current
- Low DC resistance
- Low Profile
- Test Frequency: 100kHz
- Operating Temperature: -40°C ~150°C

Fig. 1

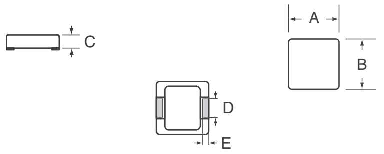

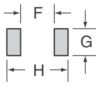

Pad Layout for both.

Fig. 2

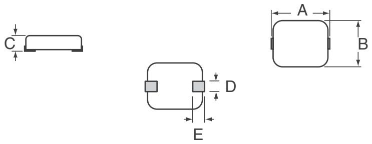

L (µH) ±20%	DCR Ω Max.	Irated (A)	Dimensions (mm)								Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		J.W.Miller Part No.
			A	B	C	D	E	F	G	H		1	10	100		Qty.	Pricing	
Fig. 1 — PM7232S Series																		
0.10	0.0011	22	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8494CT-ND	2.41	2.20	1.64	M8494TR-ND	1,500	1020.00/M	PM7232S-R10M-RC
0.22	0.0017	17	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8495CT-ND	2.41	2.20	1.64	M8495TR-ND	1,500	1020.00/M	PM7232S-R22M-RC
0.47	0.0030	15	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8496CT-ND	2.41	2.20	1.64	M8496TR-ND	1,500	1020.00/M	PM7232S-R47M-RC
0.72	0.0080	12.5	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8497CT-ND	2.41	2.20	1.64	M8497TR-ND	1,500	1020.00/M	PM7232S-R72M-RC
1.5	0.0095	9	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8498CT-ND	2.41	2.20	1.64	M8498TR-ND	1,500	1020.00/M	PM7232S-1R5M-RC
Fig. 1 — PM12639S Series																		
0.67	0.0014	23	12.6	12.6	3.9	5.8	2.4	6.0	6.5	13.0	M8105CT-ND	3.12	2.84	2.12	—	—	—	PM12639S-R67M-RC
1.2	0.0028	18.5	12.6	12.6	3.9	5.8	2.4	6.0	6.5	13.0	M8106CT-ND	3.12	2.84	2.12	M8106TR-ND	800	1056.00	PM12639S-1R2M-RC
Fig. 1 — PM12645S Series																		
1.2	0.0018	21	12.6	12.6	4.5	5.8	2.4	6.0	6.5	13.0	M8107CT-ND	2.54	2.31	1.72	M8107TR-ND	800	858.00	PM12645S-1R2M-RC
2.7	0.0044	15	12.6	12.6	4.5	5.8	2.4	6.0	6.5	13.0	M8109CT-ND	2.54	2.31	1.72	M8109TR-ND	800	858.00	PM12645S-2R7M-RC
Fig. 1 — PM12651S Series																		
4.7	0.0072	12	12.6	12.6	5.1	5.8	2.4	6.0	6.5	13.0	M8500CT-ND	2.54	2.31	1.72	M8500TR-ND	800	858.00	PM12645S-4R7M-RC
Fig. 1 — PM13560S Series																		
10	0.0149	7.5	13.0	12.6	5.6	5.8	2.4	6.4	6.5	13.4	M8501CT-ND	2.59	2.36	1.76	M8501TR-ND	500	547.50	PM13560S-6R0M-RC
10	0.0149	7.5	13.0	12.6	5.6	5.8	2.4	6.4	6.5	13.4	M8502CT-ND	2.59	2.36	1.76	M8502TR-ND	500	547.50	PM13560S-100M-RC
Fig. 2 — PM13666S Series																		
1.0	0.0012	25	13.6	12.6	6.6	2.4	3.5	5.3	5.0	14.7	M8499CT-ND	2.59	2.36	1.76	M8499TR-ND	500	547.50	PM13666S-1R0M-RC

J.W.Miller
MAGNETICS
A Bourns Company

Surface Mount Chip Inductors

Features: • Ceramic Core, Wire Wound for Superior Reliability • High Self-Resonant Frequency • Flat Top Surface for Automated Pick and Place

PM0603 Series

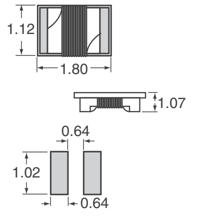

PM0805 Series

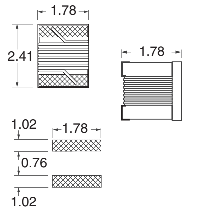

PM1008 Series

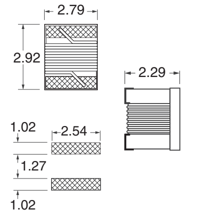

L (nH)	Tol.	Q Min.	L Test Freq. MHz	R,dc Max. Ω	I,dc Max. mA	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 3,000	J.W.Miller Part No.
							1	10	100		
PM0603 Series											
3.9	±0.3nH	22	250	0.08	700	M8489CT-ND	.39	.36	.30	117.00/M	PM0603-3N9-RC
10	±5%	30	250	0.15	700	M8484CT-ND	.39	.36	.30	117.00/M	PM0603-10NJ-RC
18	±5%	35	250	0.17	700	M8485CT-ND	.39	.36	.30	117.00/M	PM0603-18NJ-RC
27	±5%	40	250	0.23	700	M8486CT-ND	.39	.36	.30	117.00/M	PM0603-27NJ-RC
33	±5%	43	250	0.23	600	M8487CT-ND	.39	.36	.30	117.00/M	PM0603-33NJ-RC
39	±5%	43	250	0.25	600	M8488CT-ND	.39	.36	.30	117.00/M	PM0603-39NJ-RC
47	±5%	40	200	0.28	600	M8490CT-ND	.39	.36	.30	117.00/M	PM0603-47NJ-RC
82	±5%	35	150	0.54	400	M8491CT-ND	.39	.36	.30	117.00/M	PM0603-82NJ-RC
120	±5%	35	150	0.65	300	M8493CT-ND	.39	.36	.30	117.00/M	PM0603-R12J-RC

* For Tape and Reel part number, change CT-ND to TR-ND.

L	Tol. %	Q Min.	L Test Freq. MHz	R,dc Max. Ω	I,dc Max. mA	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 2,000	J.W.Miller Part No.
							1	10	100		
PM0805 Series											
6.8nH	20	50	250	0.11	600	M8452CT-ND	.40	.36	.30	120.00/M	PM0805-6N8M-RC
8.2nH	20	50	250	0.12	600	M8453CT-ND	.40	.36	.30	120.00/M	PM0805-8N2M-RC
12nH	20	50	250	0.15	600	M8454CT-ND	.40	.36	.30	120.00/M	PM0805-12NM-RC
22nH	20	55	250	0.22	500	M8455CT-ND	.40	.36	.30	120.00/M	PM0805-22NM-RC
27nH	20	55	250	0.25	500	M8456CT-ND	.40	.36	.30	120.00/M	PM0805-27NM-RC
33nH	20	60	250	0.27	500	M8457CT-ND	.40	.36	.30	120.00/M	PM0805-33NM-RC
39nH	20	60	250	0.29	500	M8458CT-ND	.40	.36	.30	120.00/M	PM0805-39NM-RC
47nH	20	60	200	0.31	500	M8459CT-ND	.40	.36	.30	120.00/M	PM0805-47NM-RC
.056µH	10	60	200	0.34	500	M8460CT-ND	.40	.36	.30	120.00/M	PM0805-56NK-RC
.068µH	10	60	200	0.38	500	M8461CT-ND	.40	.36	.30	120.00/M	PM0805-68NK-RC
.082µH	10	65	150	0.42	400	M8462CT-ND	.40	.36	.30	120.00/M	PM0805-82NK-RC
.10µH	10	65	150	0.46	400	M8463CT-ND	.40	.36	.30	120.00/M	PM0805-R10K-RC
.12µH	10	50	150	0.51	400	M8464CT-ND	.40	.36	.30	120.00/M	PM0805-R12K-RC
.22µH	10	50	100	0.70	400	M8466CT-ND	.40	.36	.30	120.00/M	PM0805-R22K-RC
PM1008 Series											
18nH	20	50	50	0.11	1000	M8467CT-ND	.40	.36	.30	—	PM1008-18NM-RC
27nH	20	55	50	0.13	1000	M8469CT-ND	.40	.36	.30	120.00/M	PM1008-27NM-RC
68nH	10	65	50	0.20	1000	M8470CT-ND	.40	.36	.30	120.00/M	PM1008-68NK-RC
82nH	10	60	50	0.22	1000	M8471CT-ND	.40	.36	.30	120.00/M	PM1008-82NK-RC
.33µH	10	45	25	1.05	450	M8472CT-ND	.40	.36	.30	120.00/M	PM1008-R33K-RC
.47µH	10	45	25	1.19	470	M8473CT-ND	.40	.36	.30	—	PM1008-R47K-RC
.68µH	10	45	25	1.47	400	M8474CT-ND	.40	.36	.30	120.00/M	PM1008-R68K-RC
.82µH	10	45	25	1.61	400	M8475CT-ND	.40	.36	.30	120.00/M	PM1008-R82K-RC
1.0µH	10	35	25	1.75	370	M8476CT-ND	.40	.36	.30	120.00/M	PM1008-1R0K-RC
1.2µH	10	35	7.9	2.00	340	M8477CT-ND	.40	.36	.30	120.00/M	PM1008-1R2K-RC
1.5µH	10	28	7.9	2.30	330	M8478CT-ND	.40	.36	.30	120.00/M	PM1008-1R5K-RC
1.8µH	10	28	7.9	2.60	300	M8479CT-ND	.40	.36	.30	120.00/M	PM1008-1R8K-RC
2.2µH	10	28	7.9	2.80	290	M8480CT-ND	.40	.36	.30	120.00/M	PM1008-2R2K-RC
2.7µH	10	22	7.9	3.20	290	M8481CT-ND	.40	.36	.30	120.00/M	PM1008-2R7K-RC
3.3µH	10	22	7.9	3.40	290	M8482CT-ND	.40	.36	.30	120.00/M	PM1008-3R3K-RC
4.7µH	10	20	7.9	4.00	260	M8483CT-ND	.40	.36	.30	120.00/M	PM1008-4R7K-RC

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Power Inductors

PM3308 Series

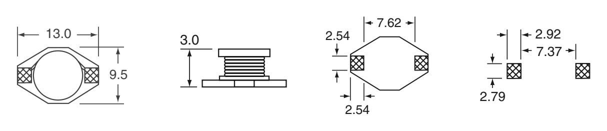

L ±20% (µH)	R, dc Max. Ω	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 1,000	J.W.Miller Part No.
					1	10	100		
10	0.11	2.4	2.0	M8576CT-ND	1.70	1.53	1.28	510.00	PM3308-100M-RC
22	0.23	1.6	1.3	M8577CT-ND	1.70	1.53	1.28	510.00	PM3308-220M-RC
33	0.30	1.4	1.1	M8578CT-ND	1.70	1.53	1.28	510.00	PM3308-330M-RC
47	0.39	1.0	0.8	M8579CT-ND	1.70	1.53	1.28	510.00	PM3308-470M-RC
68	0.66	0.9	0.7	M8580CT-ND	1.70	1.53	1.28	510.00	PM3308-680M-RC
330	2.7	0.4	0.3	M8581CT-ND	1.70	1.53	1.28	510.00	PM3308-331M-RC
470	4.0	0.3	0.2	M8582CT-ND	1.70	1.53	1.28	510.00	PM3308-471M-RC

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Power Inductors

PM3316 Series

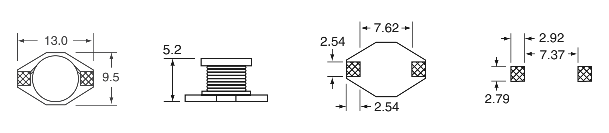

L ±20% (µH)	R, dc Max. Ω	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 500	J.W.Miller Part No.
					1	10	100		
1.0	0.009	9.0	6.8	M8557CT-ND	1.20	1.08	.90	180.00	PM3316-1R0M-RC
1.5	0.010	8.0	6.4	M8558CT-ND	1.20	1.08	.90	180.00	PM3316-1R5M-RC
2.2	0.012	7.0	6.1	M8559CT-ND	1.20	1.08	.90	180.00	PM3316-2R2M-RC
4.7	0.018	5.4	4.8	M8561CT-ND	1.20	1.08	.90	180.00	PM3316-4R7M-RC
33	0.10	2.0	2.1	M8566CT-ND	1.20	1.08	.90	180.00	PM3316-330M-RC
68	0.20	1.4	1.5	M8568CT-ND	1.20	1.08	.90	180.00	PM3316-680M-RC
100	0.28	1.2	1.3	M8569CT-ND	1.20	1.08	.90	180.00	PM3316-101M-RC
150	0.40	1.0	1.0	M8570CT-ND	1.20	1.08	.90	180.00	PM3316-151M-RC
330	1.02	0.6	0.6	M8572CT-ND	1.20	1.08	.90	180.00	PM3316-331M-RC
470	1.27	0.5	0.5	M8573CT-ND	1.20	1.08	.90	180.00	PM3316-471M-RC
1000	3.00	0.3	0.3	M8575CT-ND	1.20	1.08	.90	—	PM3316-102M-RC

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Power Inductors

PM3340 Series

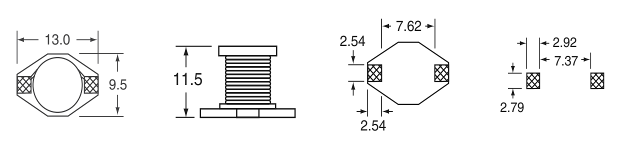

L ±20% (µH)	R, dc Max. Ω	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 225	J.W.Miller Part No.
					1	10	100		
10	0.033	8.0	3.5	M8583CT-ND	1.75	1.58	1.32	118.13	PM3340-100M-RC
15	0.042	7.0	3.0	M8584CT-ND	1.75	1.58	1.32	118.13	PM3340-150M-RC
22	0.054	5.5	2.5	M8585CT-ND	1.75	1.58	1.32	118.13	PM3340-220M-RC
33	0.08	4.0	2.0	M8586CT-ND	1.75	1.58	1.32	118.13	PM3340-330M-RC
47	0.1	3.8	1.6	M8587CT-ND	1.75	1.58	1.32	118.13	PM3340-470M-RC
68	0.17	3.0	1.2	M8588CT-ND	1.75	1.58	1.32	118.13	PM3340-680M-RC
100	0.22	2.5	1.2	M8589CT-ND	1.75	1.58	1.32	118.13	PM3340-101M-RC
150	0.34	2.0	0.9	M8590CT-ND	1.75	1.58	1.32	118.13	PM3340-151M-RC
220	0.44	1.6	0.7	M8591CT-ND	1.75	1.58	1.32	118.13	PM3340-221M-RC
330	0.7	1.2	0.6	M8592CT-ND	1.75	1.58	1.32	118.13	PM3340-331M-RC
1000	2.0	0.8	0.1	M8593CT-ND	1.75	1.58	1.32	118.13	PM3340-102M-RC

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Power Inductors

PM5022 Series

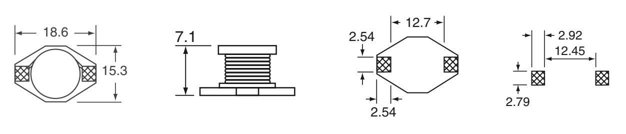

L ±20% (µH)	R, dc Max. Ω	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 250	J.W.Miller Part No.
					1	10	100		
5.6	0.022	12	5.3	M8594CT-ND	1.35	1.22	1.02	101.25	PM5022-5R6M-RC
10	0.032	10	4.3	M8597CT-ND	1.35	1.22	1.02	101.25	PM5022-100M-RC
68	0.13	3.5	2.3	M8602CT-ND	1.35	1.22	1.02	101.25	PM5022-680M-RC
100	0.19	3.0	1.8	M8603CT-ND	1.35	1.22	1.02	101.25	PM5022-101M-RC
220	0.38	2.4	1.2	M8605CT-ND	1.35	1.22	1.02	101.25	PM5022-221M-RC
470	0.85	1.4	0.82	M8607CT-ND	1.35	1.22	1.02	101.25	PM5022-471M-RC
680	1.2	1.2	0.72	M8608CT-ND	1.35	1.22	1.02	101.25	PM5022-681M-RC
1000	1.8	1.0	0.56	M8609CT-ND	1.35	1.22	1.02	101.25	PM5022-102M-RC

* For Tape and Reel part number, change CT-ND to TR-ND.

J.W.Miller MAGNETICS A Bourns Company

Surface Mount Power Inductors

RoHS COMPLIANT

PM43

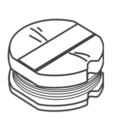

PM54

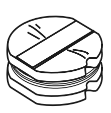

PM105

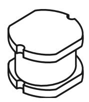

PM105SB

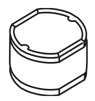

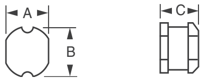

Terminal Dimensions

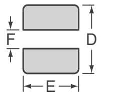

Dimensions (mm)						
Series	**A**	**B**	**C**	**D Typ.**	**E Typ.**	**F Typ.**
PM43	4.0 ± 0.3	4.5 ± 0.3	3.2 ± 0.3	4.5	4.0	1.2
PM54	5.2 ± 0.3	5.8 ± 0.3	4.5 ± 0.3	5.8	5.2	1.3
PM105	9.0 ± 0.4	10.0 ± 0.4	5.4 ± 0.4	10.0	9.5	2.5
PM105/SB	9.2 ± 0.4	10.0 ± 0.4	5.0 ± 0.5	10.0	9.5	2.5

L (µH)	Tol. %	Test Freq.	Max. DCR Ω	Rated I Amps	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,500	J.W.Miller Part No.
					PM43 Series					
10	20	2.5MHz	0.182	1.04	M8503CT-ND	1.45	1.31	1.09	435.00/M	PM43-100M-RC
22	20	2.5MHz	0.378	0.68	M8506CT-ND	1.45	1.31	1.09	435.00/M	PM43-220M-RC
33	10	2.5MHz	0.540	0.56	M8507CT-ND	1.45	1.31	1.09	435.00/M	PM43-330K-RC
56	10	2.5MHz	0.937	0.42	M8509CT-ND	1.45	1.31	1.09	435.00/M	PM43-560K-RC
68	10	2.5MHz	1.117	0.37	M8510CT-ND	1.45	1.31	1.09	435.00/M	PM43-680K-RC
					PM54 Series					
10	20	2.5MHz	0.10	1.44	M8511CT-ND	1.45	1.31	1.09	435.00/M	PM54-100M-RC
12	20	2.5MHz	0.12	1.40	M8513CT-ND	1.45	1.31	1.09	435.00/M	PM54-120M-RC
18	20	2.5MHz	0.15	1.23	M8516CT-ND	1.45	1.31	1.09	435.00/M	PM54-180M-RC
22	20	2.5MHz	0.18	1.11	M8518CT-ND	1.45	1.31	1.09	435.00/M	PM54-220M-RC
27	20	2.5MHz	0.20	0.97	M8520CT-ND	1.45	1.31	1.09	435.00/M	PM54-270M-RC
33	15	2.5MHz	0.23	0.88	M8521CT-ND	1.45	1.31	1.09	435.00/M	PM54-330L-RC
39	15	2.5MHz	0.32	0.80	M8522CT-ND	1.45	1.31	1.09	435.00/M	PM54-390L-RC
47	15	2.5MHz	0.37	0.72	M8523CT-ND	1.45	1.31	1.09	435.00/M	PM54-470L-RC
68	10	2.5MHz	0.46	0.61	M8524CT-ND	1.45	1.31	1.09	435.00/M	PM54-680K-RC
82	10	2.5MHz	0.60	0.58	M8525CT-ND	1.45	1.31	1.09	435.00/M	PM54-820K-RC
100	10	1kHz	0.70	0.52	M8512CT-ND	1.45	1.31	1.09	435.00/M	PM54-101K-RC
150	10	1kHz	1.10	0.40	M8515CT-ND	1.45	1.31	1.09	435.00/M	PM54-151K-RC
180	10	1kHz	1.38	0.38	M8517CT-ND	1.45	1.31	1.09	435.00/M	PM54-181K-RC
220	10	1kHz	1.57	0.35	M8519CT-ND	1.45	1.31	1.09	435.00/M	PM54-221K-RC

***** For Tape and Reel part number, change CT-ND to TR-ND.

L (µH)	Tol. %	Test Freq.	Max. DCR Ω	Rated I Amps	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 500	J.W.Miller Part No.
					PM105 Series					
15	20	2.5MHz	0.08	2.27	M8414CT-ND	1.90	1.71	1.43	285.00	PM105-150M-RC
39	20	2.5MHz	0.14	1.37	M8417CT-ND	1.90	1.71	1.43	285.00	PM105-390M-RC
47	10	2.5MHz	0.17	1.28	M8418CT-ND	1.90	1.71	1.43	285.00	PM105-470K-RC
82	10	2.5MHz	0.25	1.00	M8421CT-ND	1.90	1.71	1.43	285.00	PM105-820K-RC
100	10	1kHz	0.35	0.97	M8422CT-ND	1.90	1.71	1.43	285.00	PM105-101K-RC
120	10	1kHz	0.40	0.89	M8423CT-ND	1.90	1.71	1.43	285.00	PM105-121K-RC
180	10	1kHz	0.63	0.72	M8425CT-ND	1.90	1.71	1.43	—	PM105-181K-RC
270	10	1kHz	0.97	0.57	M8427CT-ND	1.90	1.71	1.43	285.00	PM105-271K-RC
330	10	1kHz	1.15	0.52	M8428CT-ND	1.90	1.71	1.43	285.00	PM105-331K-RC
470	10	1kHz	1.48	0.42	M8429CT-ND	1.90	1.71	1.43	285.00	PM105-471K-RC
560	10	1kHz	1.90	0.33	M8430CT-ND	1.90	1.71	1.43	285.00	PM105-561K-RC
680	10	1kHz	2.25	0.28	M8431CT-ND	1.90	1.71	1.43	285.00	PM105-681K-RC
					PM105SB (Shielded) Series					
10	20	2.5MHz	0.06	2.06	M8433CT-ND	1.47	1.33	1.11	220.50	PM105SB-100M-RC
12	20	2.5MHz	0.07	1.94	M8434CT-ND	1.47	1.33	1.11	220.50	PM105SB-120M-RC
15	20	2.5MHz	0.07	1.72	M8435CT-ND	1.47	1.33	1.11	220.50	PM105SB-150M-RC
27	20	2.5MHz	0.10	1.32	M8438CT-ND	1.47	1.33	1.11	220.50	PM105SB-270M-RC
33	15	2.5MHz	0.11	1.16	M8439CT-ND	1.47	1.33	1.11	220.50	PM105SB-330L-RC
47	15	2.5MHz	0.14	1.00	M8441CT-ND	1.47	1.33	1.11	198.00	PM105SB-470L-RC
82	15	2.5MHz	0.28	0.79	M8443CT-ND	1.47	1.33	1.11	220.50	PM105SB-820L-RC
100	10	1kHz	0.34	0.72	M8444CT-ND	1.47	1.33	1.11	220.50	PM105SB-101K-RC
120	10	1kHz	0.37	0.63	M8445CT-ND	1.47	1.33	1.11	—	PM105SB-121K-RC
150	10	1kHz	0.51	0.55	M8446CT-ND	1.47	1.33	1.11	220.50	PM105SB-151K-RC
330	10	1kHz	1.20	0.37	M8450CT-ND	1.47	1.33	1.11	220.50	PM105SB-331K-RC

***** For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount High Current Toroid Inductors — PM2110 and PM2120 Series

RoHS COMPLIANT

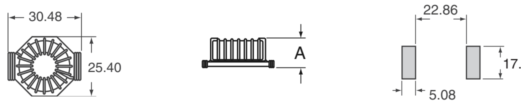

E

L (µH) @ 1kHz	I,dc (A)	L (µH) ±20% @ Rated I	DCR (Ω) Max.	Dim. A (mm) Max.	Digi-Key Part No.	Price Each 1	10	25	J.W.Miller Part No.
					PM2110 Series 20%				
1.00	22.70	0.80	0.00	14.48	M8754-ND	2.73	2.05	1.82	PM2110-1R0M-RC
5.60	13.70	3.90	0.01	14.48	M8755-ND	2.73	2.05	1.82	PM2110-5R6M-RC
					PM2110 Series 10%				
10.00	11.70	6.50	0.01	14.48	M8756-ND	2.73	2.05	1.82	PM2110-100K-RC
12.00	11.30	7.60	0.01	14.48	M8757-ND	2.73	2.05	1.82	PM2110-120K-RC
15.00	10.70	9.20	0.01	14.48	M8758-ND	2.73	2.05	1.82	PM2110-150K-RC
18.00	10.20	10.70	0.01	14.48	M8759-ND	2.73	2.05	1.82	PM2110-180K-RC
22.00	9.70	12.70	0.01	14.48	M8760-ND	2.73	2.05	1.82	PM2110-220K-RC
27.00	8.20	16.00	0.01	13.72	M8761-ND	2.73	2.05	1.82	PM2110-270K-RC
33.00	7.00	20.10	0.02	13.21	M8762-ND	2.73	2.05	1.82	PM2110-330K-RC
39.00	6.80	23.20	0.02	15.75	M8763-ND	2.73	2.05	1.82	PM2110-390K-RC
47.00	6.50	27.20	0.02	15.75	M8764-ND	2.73	2.05	1.82	PM2110-470K-RC
56.00	6.20	31.60	0.02	15.75	M8765-ND	2.73	2.05	1.82	PM2110-560K-RC
68.00	5.90	37.10	0.03	15.75	M8766-ND	2.73	2.05	1.82	PM2110-680K-RC
100.00	5.40	51.40	0.03	15.75	M8767-ND	2.73	2.05	1.82	PM2110-101K-RC
150.00	4.30	77.30	0.05	14.99	M8768-ND	2.73	2.05	1.82	PM2110-151K-RC
180.00	3.70	96.30	0.07	13.46	M8769-ND	2.73	2.05	1.82	PM2110-181K-RC
220.00	3.50	113.80	0.07	15.24	M8770-ND	2.73	2.05	1.82	PM2110-221K-RC
270.00	3.40	134.90	0.08	15.24	M8771-ND	2.73	2.05	1.82	PM2110-271K-RC
330.00	3.20	159.50	0.09	15.24	M8772-ND	2.73	2.05	1.82	PM2110-331K-RC
390.00	3.10	182.90	0.10	15.24	M8773-ND	2.73	2.05	1.82	PM2110-391K-RC
470.00	2.60	230.40	0.13	14.48	M8774-ND	2.73	2.05	1.82	PM2110-471K-RC
820.00	2.00	394.10	0.22	15.24	M8775-ND	2.73	2.05	1.82	PM2110-821K-RC
1000.00	1.90	463.70	0.24	15.24	M8776-ND	2.73	2.05	1.82	PM2110-102K-RC
					PM2120 Series 20%				
2.20	19.70	1.80	0.00	20.83	M8777-ND	3.30	2.48	2.20	PM2120-2R2M-RC
4.70	16.60	3.70	0.01	20.83	M8778-ND	3.30	2.48	2.20	PM2120-4R7M-RC
5.60	15.60	4.20	0.01	20.83	M8779-ND	3.30	2.48	2.20	PM2120-5R6M-RC
6.80	14.70	5.00	0.01	20.83	M8780-ND	3.30	2.48	2.20	PM2120-6R8M-RC
					PM2120 Series 10%				
10.00	13.90	7.20	0.01	20.83	M8781-ND	3.30	2.48	2.20	PM2120-100K-RC
12.00	12.70	8.30	0.01	20.83	M8782-ND	3.30	2.48	2.20	PM2120-120K-RC
15.00	12.20	10.20	0.01	20.83	M8783-ND	3.30	2.48	2.20	PM2120-150K-RC
18.00	11.80	12.00	0.01	20.83	M8784-ND	3.30	2.48	2.20	PM2120-180K-RC
22.00	11.00	14.20	0.01	20.83	M8785-ND	3.30	2.48	2.20	PM2120-220K-RC
27.00	10.40	16.90	0.01	20.83	M8786-ND	3.30	2.48	2.20	PM2120-270K-RC
33.00	10.10	20.30	0.01	20.83	M8787-ND	3.30	2.48	2.20	PM2120-330K-RC
39.00	9.60	23.30	0.01	20.83	M8788-ND	3.30	2.48	2.20	PM2120-390K-RC
47.00	8.20	29.20	0.02	20.07	M8789-ND	3.30	2.48	2.20	PM2120-470K-RC
56.00	7.90	33.90	0.02	20.07	M8790-ND	3.30	2.48	2.20	PM2120-560K-RC
68.00	6.70	42.20	0.03	19.56	M8791-ND	3.30	2.48	2.20	PM2120-680K-RC
82.00	6.40	49.50	0.03	22.10	M8792-ND	3.30	2.48	2.20	PM2120-820K-RC
100.00	6.10	58.70	0.04	22.10	M8793-ND	3.30	2.48	2.20	PM2120-101K-RC
120.00	5.80	68.10	0.04	22.10	M8794-ND	3.30	2.48	2.20	PM2120-121K-RC
150.00	5.50	82.50	0.04	22.10	M8795-ND	3.30	2.48	2.20	PM2120-151K-RC
180.00	5.30	96.20	0.05	21.08	M8796-ND	3.30	2.48	2.20	PM2120-181K-RC
220.00	5.00	113.70	0.05	21.08	M8797-ND	3.30	2.48	2.20	PM2120-221K-RC
330.00	3.60	183.40	0.10	19.81	M8798-ND	3.30	2.48	2.20	PM2120-331K-RC
390.00	3.50	211.60	0.11	19.81	M8799-ND	3.30	2.48	2.20	PM2120-391K-RC
470.00	3.30	247.10	0.12	21.59	M8800-ND	3.30	2.48	2.20	PM2120-471K-RC
1000.00	2.50	499.70	0.22	20.83	M8801-ND	3.30	2.48	2.20	PM2120-102K-RC

J.W.Miller
MAGNETICS
A Bourns Company

Surface Mount Dual Toroid Inductors

The PM3602 and PM3604 Series are versatile surface mount coils that can provide different functions in a single package. A bifilar method is used in the winding of these coils. The user can utilize these coils in four different ways, depending on the external connection chosen:

(1) Parallel Connection: Doubles the current capacity

(2) Series Connection: 4 times the parallel inductance

(3) Dual Inductor: Creates two differential mode inductors

(4) 1:1 Ratio Transformer: For isolation and some flyback applications

Features:

• Toroidal core design to minimize RFI radiation • Low loss core material • Encapsulated in case for pick and place capability • Reflow soldering • Hi-pot 500V • Operating temperature: -55°C ~ 125°C

Typical Applications:

• Switching power supplies • Converters • Data communications • Processor/controller circuits • Personal computers • Filters

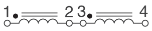

Series Mode

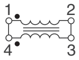

Parallel Mode

Series or parallel connections are made at the circuit level (not an internal connection of the device).

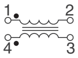

1:1 Transformer/
Dual Differential Mode

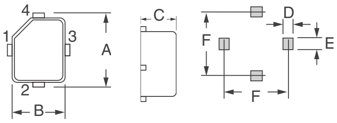

Part #	A	B	C	D	E	F
	Dimensions (mm)					
PM3602	11.48	8.99	5.71	2.54	2.54	9.78
PM3604	13.97	11.48	6.73	4.06	2.54	12.70

Parallel L ±20% µH	Parallel I,dc Max. Amps	Parallel L ±20% @ I,dc µH	Parallel R,dc Max. Ω	Series L ±20% µH	Series I,dc Max. Amps	Series L ±20% @ I,dc µH	Series R,dc Max. Ω	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	J.W.Miller Part No.
								PM3602 Series							
5	2.41	3.8	0.023	20	1.20	15.2	0.09	M8662-ND◆	2.07	1.48	1.18	—	—	—	PM3602-5-B-RC
5	2.41	3.8	0.023	20	1.20	15.2	0.09	M10135CT-ND◆	1.77	1.33	1.18	M10135TR-ND◆	700	619.50	PM3602-5-RC
8	1.90	6.1	0.037	32	0.95	23.2	0.15	M8663-ND◆	2.07	1.48	1.18	—	—	—	PM3602-8-B-RC
8	1.90	6.1	0.037	32	0.95	23.2	0.15	M10136CT-ND◆	1.77	1.33	1.18	M10136TR-ND◆	700	619.50	PM3602-8-RC
10	1.83	7.4	0.040	40	0.92	29.6	0.16	M10137CT-ND◆	1.77	1.33	1.18	M10137TR-ND◆	700	619.50	PM3602-10-RC
15	1.45	11.1	0.063	60	0.73	44.4	0.25	M1212-ND	1.77	1.63	1.48	—	—	—	PM3602-15-B
15	1.45	11.1	0.063	60	0.73	44.4	0.25	M10138CT-ND◆	1.77	1.33	1.18	M10138TR-ND◆	700	619.50	PM3602-15-RC
15	1.45	11.1	0.063	60	0.73	44.4	0.25	M8665-ND◆	2.07	1.48	1.18	—	—	—	PM3602-15-B-RC
20	1.25	15.2	0.086	80	0.63	60.8	0.34	M10139CT-ND◆	1.77	1.33	1.18	M10139TR-ND◆	700	619.50	PM3602-20-RC
25	1.17	18.5	0.098	100	0.59	74.0	0.39	M10162CT-ND◆	1.77	1.33	1.18	M10162TR-ND◆	700	619.50	PM3602-25-RC
33	0.98	24.8	0.14	132	0.49	99.2	0.56	M10140CT-ND◆	1.77	1.33	1.18	M10140TR-ND◆	700	619.50	PM3602-33-RC
50	0.78	37.5	0.22	200	0.38	150.0	0.88	M10141CT-ND◆	1.77	1.33	1.18	M10141TR-ND◆	700	619.50	PM3602-50-RC
68	0.72	49.6	0.26	272	0.36	198.4	1.04	M1217-ND	2.07	1.48	1.18	—	—	—	PM3602-68-B
68	0.72	49.6	0.26	272	0.36	198.4	1.04	M10142CT-ND◆	1.77	1.33	1.18	M10142TR-ND◆	700	619.50	PM3602-68-RC
100	0.58	74.0	0.40	400	0.29	296.0	1.60	M10143CT-ND◆	1.77	1.33	1.18	M10143TR-ND◆	700	619.50	PM3602-100-RC
150	0.47	111	0.60	600	0.24	444.0	2.40	M10144CT-ND◆	1.77	1.33	1.18	M10144TR-ND◆	700	619.50	PM3602-150-RC
200	0.40	150.0	0.84	800	0.20	600.0	3.36	M8673-ND◆	1.77	1.33	1.18	—	—	—	PM3602-200-B-RC
200	0.40	150.0	0.84	800	0.20	600.0	3.36	M10145CT-ND◆	1.77	1.33	1.18	M10145TR-ND◆	700	619.50	PM3602-200-RC
250	0.33	192.5	1.19	1000	0.17	770.0	4.76	M1221-ND	1.77	1.33	1.18	—	—	—	PM3602-250-B
250	0.33	192.5	1.19	1000	0.17	770.0	4.76	M8674-ND◆	1.77	1.33	1.18	—	—	—	PM3602-250-B-RC
250	0.33	192.5	1.19	1000	0.17	770.0	4.76	M10146CT-ND◆	1.77	1.33	1.18	M10146TR-ND◆	700	619.50	PM3602-250-RC
300	0.32	225.0	1.31	1200	0.16	900.0	5.24	M10147CT-ND◆	1.77	1.33	1.18	M10147TR-ND◆	700	619.50	PM3602-300-RC
								PM3604 Series							
5	3.30	3.8	0.019	20	1.65	15.2	0.076	M8676-ND◆	2.07	1.48	1.18	—	—	—	PM3604-5-B-RC
5	3.30	3.8	0.019	20	1.65	15.2	0.076	M10148CT-ND◆	1.77	1.33	1.18	M10148TR-ND◆	400	365.80	PM3604-5-RC
8	3.00	5.8	0.024	32	1.50	23.2	0.096	M8677-ND◆	2.07	1.48	1.18	—	—	—	PM3604-8-B-RC
8	3.00	5.8	0.024	32	1.50	23.2	0.096	M10149CT-ND◆	1.77	1.33	1.18	M10149TR-ND◆	400	365.80	PM3604-8-RC
10	2.70	7.3	0.028	40	1.35	29.2	0.11	M10150CT-ND◆	1.77	1.33	1.18	M10150TR-ND◆	400	365.80	PM3604-10-RC
15	2.20	11.0	0.041	60	1.10	44.0	0.16	M8679-ND◆	2.07	1.48	1.18	—	—	—	PM3604-15-B-RC
15	2.20	11.0	0.041	60	1.10	44.0	0.16	M10151CT-ND◆	1.77	1.33	1.18	M10151TR-ND◆	400	365.80	PM3604-15-RC
20	2.02	14.2	0.049	80	1.01	56.8	0.20	M10152CT-ND◆	1.77	1.33	1.18	M10152TR-ND◆	400	365.80	PM3604-20-RC
25	1.91	17.0	0.054	100	0.96	68.0	0.22	M1228-ND	2.07	1.48	1.18	—	—	—	PM3604-25-B
25	1.91	17.0	0.054	100	0.96	68.0	0.22	M10153CT-ND◆	1.77	1.33	1.18	M10153TR-ND◆	400	365.80	PM3604-25-RC
33	1.60	23.1	0.078	132	0.80	92.4	0.31	M10154CT-ND◆	1.77	1.33	1.18	M10154TR-ND◆	400	365.80	PM3604-33-RC
50	1.28	35.5	0.12	200	0.64	142.0	0.48	M10155CT-ND◆	1.77	1.33	1.18	M10155TR-ND◆	400	365.80	PM3604-50-RC
68	1.19	46.2	0.14	272	0.60	184.8	0.56	M8684-ND◆	2.07	1.48	1.18	—	—	—	PM3604-68-B-RC
68	1.19	46.2	0.14	272	0.60	184.8	0.56	M10156CT-ND◆	1.77	1.33	1.18	M10156TR-ND◆	400	365.80	PM3604-68-RC
100	0.98	68.0	0.21	400	0.49	272.0	0.84	M10157CT-ND◆	1.77	1.33	1.18	M10157TR-ND◆	400	365.80	PM3604-100-RC
150	0.78	103.5	0.32	600	0.39	414.0	1.28	M1233-ND	1.77	1.33	1.18	—	—	—	PM3604-150-B
150	0.78	103.5	0.32	600	0.39	414.0	1.28	M10158CT-ND◆	1.77	1.33	1.18	M10158TR-ND◆	400	365.80	PM3604-150-RC
200	0.65	140.0	0.47	800	0.33	560.0	1.88	M8687-ND◆	1.77	1.33	1.18	—	—	—	PM3604-200-B-RC
200	0.65	140.0	0.47	800	0.33	560.0	1.88	M10159CT-ND◆	1.77	1.33	1.18	M10159TR-ND◆	400	365.80	PM3604-200-RC
250	0.60	172.5	0.53	1000	0.30	690.0	2.12	M8688-ND◆	1.77	1.33	1.18	—	—	—	PM3604-250-B-RC
250	0.60	172.5	0.53	1000	0.30	690.0	2.12	M10160CT-ND◆	1.77	1.33	1.18	M10160TR-ND◆	400	365.80	PM3604-250-RC
300	0.52	213.0	0.73	1200	0.26	852.0	2.92	M10161CT-ND◆	1.77	1.33	1.18	M10161TR-ND◆	400	365.80	PM3604-300-RC

◆ ***RoHS Compliant***

J.W. Miller MAGNETICS
A Bourns Company

High Current Toroid Inductors

5700 Series

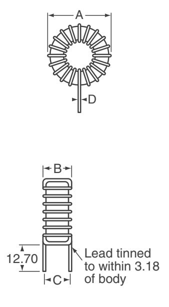

6701 - 6704 and 6729 - 6731 Series

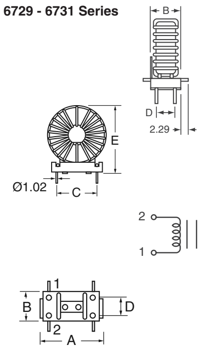

6706 - 6725 Series

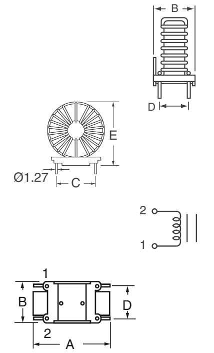

L (µH) ±15%	I,dc Max. Amps	R,dc Max. Ω	Dimensions (mm) A Max.	B Max.	C Nom.	D Nom.	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
5700 Series										
10	11.00	.008	22.23	11.10	8.13	1.63	M8709-ND	5.25	3.94	5701-RC
25	5.50	.014	22.23	11.10	7.62	1.02	M8710-ND	5.25	3.94	5702-RC
125	2.75	.12	22.23	11.10	7.62	.51	M8711-ND	5.25	3.94	5703-RC
275	2.00	.24	22.23	11.10	7.62	.41	M8712-ND	5.25	3.94	5704-RC
450	1.50	.49	22.23	11.10	7.62	.30	M8713-ND	5.25	3.94	5705-RC
25	9.00	.012	28.58	14.27	11.43	1.63	M8714-ND	5.25	3.94	5706-RC
75	5.00	.04	28.58	14.27	10.67	.91	M8715-ND	5.25	3.94	5707-RC
400	2.25	.33	28.58	14.27	10.67	.46	M8716-ND	5.25	3.94	5708-RC
50	9.50	.012	31.75	15.88	13.46	1.63	M8717-ND	5.25	3.94	5711-RC
150	4.75	.046	31.75	15.88	12.70	.91	M8718-ND	5.25	3.94	5712-RC
700	2.25	.42	31.75	15.88	12.70	.46	M8719-ND	5.25	3.94	5713-RC
1600	1.50	1.27	31.75	15.88	12.19	.30	M8720-ND	5.25	3.94	5715-RC
125	7.75	.032	46.02	19.05	17.27	1.63	M8721-ND	7.03	6.25	5716-RC
500	4.00	.15	46.02	19.05	16.51	.81	M8722-ND	7.03	6.25	5717-RC
1100	2.50	.33	46.02	19.05	16.51	.64	M8723-ND	7.03	6.25	5718-RC
2250	1.75	.92	46.02	19.05	16.51	.46	M8724-ND	7.03	6.25	5719-RC
250	8.00	.041	53.98	23.80	20.07	1.57	M8725-ND	8.33	7.40	5721-RC
900	3.75	.175	53.98	23.80	19.05	.81	M8726-ND	8.33	7.40	5722-RC
1800	2.50	.55	53.98	23.80	19.05	.58	M8727-ND	8.33	7.40	5723-RC
4000	1.75	1.16	53.98	23.80	18.80	.46	M8728-ND	8.33	7.40	5724-RC
8000	1.00	3.34	53.98	23.80	18.80	.30	M8729-ND	8.33	7.40	5725-RC
25	2.50	.040	13.97	5.59	5.33	.51	M8730-ND	4.70	3.53	5726-RC
35	2.50	.035	17.78	8.13	7.62	.64	M8731-ND	4.70	3.53	5727-RC
50	2.50	.060	19.05	8.13	7.11	.51	M8732-ND	4.70	3.53	5728-RC
100	2.50	.080	21.59	9.14	8.38	.51	M8733-ND	4.70	3.53	5729-RC
70	3.00	.050	21.59	9.14	8.38	.64	M8734-ND	4.70	3.53	5730-RC
40	4.00	.025	21.59	9.14	8.64	.81	M8735-ND	4.70	3.53	5731-RC

L (µH) ±15%	I,dc Max. Amps	R,dc Max. Ω	Dimensions (mm) A Max.	B Max.	C ± .38	D ± .38	E Max.	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
6700 Series											
25	5.50	.014	22.23	10.79	15.24	6.35	25.40	M8737-ND	6.60	4.95	6702-RC
125	2.75	.12	22.23	10.79	15.24	6.35	25.40	M8738-ND	6.60	4.95	6703-RC
100	2.50	.080	21.59	10.79	15.24	6.35	25.40	M8751-ND	7.12	5.35	6729-RC
70	3.00	.050	21.59	10.79	15.24	6.35	25.40	M8752-ND	7.12	5.35	6730-RC
40	4.00	.025	21.59	10.79	15.24	6.35	25.40	M8753-ND	7.12	5.35	6731-RC
150	4.75	.046	31.75	20.32	22.86	15.24	34.93	M8744-ND	6.60	4.95	6712-RC
700	2.25	.42	31.75	20.32	22.86	15.24	34.93	M8745-ND	6.60	4.95	6713-RC
250	8.00	.041	53.98	27.94	38.10	22.86	57.15	M8748-ND	9.32	8.29	6721-RC
900	3.75	.175	53.98	27.94	38.10	22.86	57.15	M8749-ND	9.32	8.29	6722-RC
8000	1.00	3.34	53.98	27.94	38.10	22.86	57.15	M8750-ND	9.32	8.29	6725-RC

High Current Toroid Inductors

2100, 2200 and 2300 Series (Std., HT and LL)

2100, 2200, and 2300 Series:

Features: • High current • Low radiation • 12.70mm lead length tinned to within 1.59mm of body • Operating Temperature: -55°C ~ 105°C **Typical Applications:** • DC-DC converters • EMI filters • Output Chokes **Notes:** • Rated Idc causes a 30°C temperature rise

2100LL and 2200LL Series:

Features: • Low core loss • Low magnetic radiation • High current capacity • Horizontal mount • Operating Temperature: -55°C ~ 125°C **Typical Applications:** • Switch mode power supplies • DC-DC converters • Output chokes • EMI filters **Notes:** • Rated Idc causes a 30°C temperature rise

2100HT, 2200HT and 2300HT Series:

Features: • High temperature rating, up to 200°C • Low magnetic radiation • High current capacity • Horizontal or vertical mount available • Low cost • Operating Temperature: -55°C ~ 200°C • 12.70mm lead length tinned to within 1.59mm of body **Notes:** • Rated Idc causes a 50°C temperature rise

Fig. 1

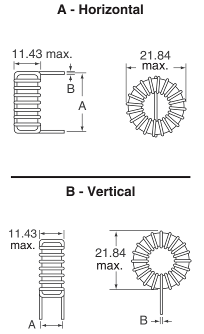
A - Horizontal
B - Vertical

Fig. 2

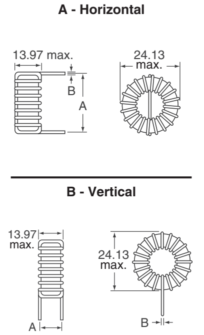
A - Horizontal
B - Vertical

Fig. 3

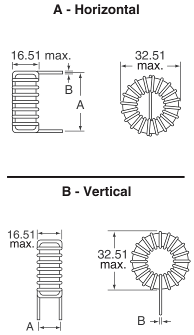
A - Horizontal
B - Vertical

Fig.	L (µH) ±15% @ 1kHz	Idc (A)	L (µH) ±15% @ I Rated	DCR Max. Ω	Dim. (mm) A Max.	B Min.	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
2100 Series										
1A	10	10.8	6.3	0.006	19.56	1.35	M8802-ND	2.99	2.14	2101-H-RC
	15	7.7	10.2	0.012	19.30	1.07	M8803-ND	2.99	2.14	2103-H-RC
	22	7.0	14.2	0.015	19.30	1.07	M8804-ND	2.99	2.14	2105-H-RC
	33	5.0	22.8	0.029	19.05	0.86	M8805-ND	2.99	2.14	2107-H-RC
	47	3.6	34.7	0.055	19.05	0.69	M8806-ND	2.99	2.14	2109-H-RC
	56	3.4	40.6	0.060	19.05	0.69	M8807-ND	2.99	2.14	2110-H-RC
	68	3.3	48.3	0.067	19.05	0.69	M8808-ND	2.99	2.14	2111-H-RC
	100	2.4	75.2	0.13	18.80	0.56	M8809-ND	2.99	2.14	2112-H-RC
	120	2.2	88.5	0.15	18.80	0.56	M8810-ND	2.99	2.14	2113-H-RC
	150	3.4	84.3	0.062	20.07	0.86	M8811-ND	2.99	2.14	2114-H-RC
	180	2.6	113.1	0.11	19.56	0.69	M8812-ND	2.99	2.14	2115-H-RC
	270	1.8	181.6	0.21	19.30	0.56	M8814-ND	2.99	2.14	2117-H-RC
	330	1.7	216.3	0.23	19.30	0.56	M8815-ND	2.99	2.14	2118-H-RC
	470	1.6	293.8	0.28	19.30	0.56	M8816-ND	2.99	2.14	2120-H-RC
	560	1.5	341.5	0.30	20.07	0.56	M8817-ND	2.99	2.14	2121-H-RC
	1000	1.3	559.2	0.40	20.57	0.56	M8818-ND	2.99	2.14	2124-H-RC
1B	10	10.8	6.3	0.006	8.64	1.35	M8848-ND	2.99	2.14	2101-V-RC
	18	7.4	11.9	0.013	8.38	1.07	M8849-ND	2.99	2.14	2104-V-RC
	22	7.0	14.2	0.015	8.38	1.07	M8850-ND	2.99	2.14	2105-V-RC
	27	5.3	19.1	0.026	8.13	0.86	M8851-ND	2.99	2.14	2106-V-RC
	33	5.0	22.8	0.029	8.13	0.86	M8852-ND	2.99	2.14	2107-V-RC
	39	4.8	26.4	0.032	8.13	0.86	M8853-ND	2.99	2.14	2108-V-RC
	47	3.6	34.7	0.055	7.87	0.69	M8854-ND	2.99	2.14	2109-V-RC
	56	3.4	40.6	0.060	7.87	0.69	M8855-ND	2.99	2.14	2110-V-RC
	100	2.4	75.2	0.13	7.87	0.56	M8856-ND	2.99	2.14	2112-V-RC
	150	3.4	84.3	0.062	8.89	0.86	M8857-ND	2.99	2.14	2114-V-RC
	180	2.6	113.1	0.11	8.64	0.69	M8858-ND	2.99	2.14	2115-V-RC
	220	2.4	134.4	0.12	8.64	0.69	M8859-ND	2.99	2.14	2116-V-RC
	330	1.7	216.3	0.23	8.38	0.56	M8860-ND	2.99	2.14	2118-V-RC
	390	1.7	250.1	0.25	8.38	0.56	M8861-ND	2.99	2.14	2119-V-RC
	470	1.6	293.8	0.28	8.89	0.56	M8862-ND	2.99	2.14	2120-V-RC
	1000	1.3	559.2	0.40	9.40	0.56	M8863-ND	2.99	2.14	2124-V-RC
2200 Series										
2A	22	10.3	13.4	0.010	22.35	1.35	M8819-ND	3.99	2.85	2205-H-RC
	27	9.8	16.0	0.011	22.35	1.35	M8820-ND	3.99	2.85	2206-H-RC
	33	7.4	21.6	0.020	22.10	1.07	M8821-ND	3.99	2.85	2207-H-RC
	47	6.7	29.3	0.024	22.10	1.07	M8822-ND	3.99	2.85	2209-H-RC
	56	6.4	34.1	0.026	22.10	1.07	M8823-ND	3.99	2.85	2210-H-RC
	68	4.9	45.7	0.046	21.84	0.86	M8824-ND	3.99	2.85	2211-H-RC
	100	4.4	64.0	0.056	21.84	0.86	M8825-ND	3.99	2.85	2212-H-RC
	150	3.1	102.7	0.11	21.84	0.69	M8826-ND	3.99	2.85	2214-H-RC
	270	3.4	149.4	0.092	22.86	0.86	M8827-ND	4.34	3.10	2217-H-RC
	330	3.3	176.8	0.10	22.86	0.86	M8828-ND	4.34	3.10	2218-H-RC
	470	2.3	275.9	0.19	22.35	0.69	M8829-ND	4.34	3.10	2220-H-RC
	1000	1.9	521.3	0.28	23.11	0.69	M8830-ND	4.34	3.10	2224-H-RC
2B	10	12.5	6.7	0.007	11.68	1.35	M8864-ND	4.69	3.35	2201-V-RC
	12	12.0	7.9	0.008	11.68	1.35	M8865-ND	3.99	2.85	2202-V-RC
	15	11.3	9.6	0.008	11.68	1.35	M8866-ND	4.69	3.35	2203-V-RC
	18	10.8	11.3	0.009	11.68	1.35	M8867-ND	3.99	2.85	2204-V-RC
	22	10.3	13.4	0.010	11.68	1.35	M8868-ND	3.99	2.85	2205-V-RC
	27	9.8	16.0	0.011	11.68	1.35	M8869-ND	3.99	2.85	2206-V-RC
	33	7.4	21.6	0.020	11.43	1.07	M8870-ND	3.99	2.85	2207-V-RC
	47	6.7	29.3	0.024	11.43	1.07	M8871-ND	3.99	2.85	2209-V-RC
	56	6.4	34.1	0.026	11.43	1.07	M8872-ND	3.99	2.85	2210-V-RC
	100	4.4	64.0	0.056	11.18	0.86	M8873-ND	3.99	2.85	2212-V-RC
	120	3.3	84.4	0.098	11.18	0.69	M8874-ND	3.99	2.85	2213-V-RC
	220	3.6	125.6	0.083	12.19	0.86	M8875-ND	4.69	3.35	2216-V-RC
	330	3.3	176.8	0.10	12.19	0.86	M8876-ND	4.34	3.10	2218-V-RC
	470	2.3	275.9	0.19	11.68	0.69	M8877-ND	5.04	3.60	2220-V-RC
	1000	1.9	521.3	0.28	12.45	0.69	M8878-ND	4.34	3.10	2224-V-RC
2300 Series										
3A	10	20.0	6.7	0.005	29.97	1.68	M8831-ND	3.99	3.00	2301-H-RC
	15	18.0	9.5	0.006	29.97	1.68	M8832-ND	3.99	3.00	2303-H-RC
	22	16.4	13.2	0.007	29.97	1.68	M8833-ND	3.99	3.00	2305-H-RC

(Continued)

J.W.Miller
MAGNETICS
A Bourns Company

High Current Toroid Inductors *(Cont.)*

Fig.	L (µH) ±15% @ 1kHz	Idc (A)	L (µH) ±15% @ I Rated	DCR Max. Ω	Dim. (mm) A Max.	Dim. (mm) B Min.	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
3A	27	15.6	15.7	0.008	29.97	1.68	M8834-ND	3.99	3.00	2306-H-RC
	47	10.7	29.0	0.016	28.96	1.35	M8835-ND	3.99	3.00	2309-H-RC
	56	10.2	33.7	0.017	28.96	1.35	M8836-ND	3.99	3.00	2310-H-RC
	68	7.7	45.2	0.030	28.70	1.07	M8837-ND	3.99	3.00	2311-H-RC
	100	7.0	63.1	0.037	28.70	1.07	M8838-ND	3.99	3.00	2312-H-RC
	120	6.7	73.9	0.040	28.70	1.07	M8839-ND	3.99	3.00	2313-H-RC
	180	4.8	118.9	0.078	28.45	0.86	M8840-ND	3.99	3.00	2315-H-RC
	220	5.8	123.8	0.054	29.72	1.07	M8841-ND	3.99	3.00	2316-H-RC
	330	5.2	174.1	0.067	29.72	1.07	M8842-ND	3.99	3.00	2318-H-RC
	390	5.0	200.2	0.072	29.72	1.07	M8843-ND	3.99	3.00	2319-H-RC
	470	3.8	271.4	0.13	29.46	0.86	M8844-ND	3.99	3.00	2320-H-RC
	560	3.6	314.8	0.14	29.46	0.86	M8845-ND	3.99	3.00	2321-H-RC
	680	3.4	370.7	0.15	29.46	0.86	M8846-ND	3.99	3.00	2322-H-RC
	1000	2.4	593.6	0.30	28.96	0.69	M8847-ND	3.99	3.00	2324-H-RC
3B	10	20.0	6.7	0.005	14.22	1.68	M8879-ND	3.99	3.00	2301-V-RC
	12	19.1	7.8	0.005	14.22	1.68	M8880-ND	3.99	3.00	2302-V-RC
	22	16.4	13.2	0.007	14.22	1.68	M8881-ND	3.99	3.00	2305-V-RC
	27	15.6	15.7	0.008	14.22	1.68	M8882-ND	3.99	3.00	2306-V-RC
	33	11.7	21.3	0.013	13.46	1.35	M8883-ND	3.99	3.00	2307-V-RC
	39	11.2	24.7	0.014	13.46	1.35	M8884-ND	3.99	3.00	2308-V-RC
	47	10.7	29.0	0.016	13.46	1.35	M8885-ND	3.99	3.00	2309-V-RC
	56	10.2	33.7	0.017	13.46	1.35	M8886-ND	3.99	3.00	2310-V-RC
	68	7.7	45.2	0.030	13.21	1.07	M8887-ND	3.99	3.00	2311-V-RC
	100	7.0	63.1	0.037	13.21	1.07	M8888-ND	3.99	3.00	2312-V-RC
	120	6.7	73.9	0.040	13.21	1.07	M8889-ND	3.99	3.00	2313-V-RC
	150	5.0	101.4	0.071	12.95	0.86	M8890-ND	3.99	3.00	2314-V-RC
	270	5.5	147.2	0.060	14.22	1.07	M8891-ND	3.99	3.00	2317-V-RC
	330	5.2	174.1	0.067	14.22	1.07	M8892-ND	3.99	3.00	2318-V-RC
	390	5.0	200.2	0.072	14.22	1.07	M8893-ND	3.99	3.00	2319-V-RC
	470	3.8	271.4	0.13	13.72	0.86	M8894-ND	3.99	3.00	2320-V-RC
	1000	2.4	593.6	0.30	13.46	0.69	M8895-ND	3.99	3.00	2324-V-RC
Low Loss										
2100LL Series										
1A	10	11.4	5.2	0.005	20.32	1.35	M1400-ND	3.50	2.63	2100LL-100H-RC
	12	10.9	6.1	0.006	20.32	1.35	M1401-ND	3.50	2.63	2100LL-120H-RC
	15	10.5	7.3	0.006	20.32	1.35	M1402-ND	3.50	2.63	2100LL-150H-RC
	18	10.1	8.5	0.007	20.32	1.35	M1403-ND	3.50	2.63	2100LL-180H-RC
	22	7.5	11.8	0.012	19.81	1.07	M1404-ND	3.50	2.63	2100LL-220H-RC
	27	7.3	14.2	0.012	19.81	1.07	M1405-ND	3.50	2.63	2100LL-270H-RC
	33	6.9	16.6	0.014	19.81	1.07	M1406-ND	3.50	2.63	2100LL-330H-RC
	39	6.6	18.8	0.015	19.81	1.07	M1407-ND	3.50	2.63	2100LL-390H-RC
	47	5.2	25.3	0.024	19.30	0.86	M1408-ND	3.50	2.63	2100LL-470H-RC
	56	5.0	29.3	0.026	19.30	0.86	M1409-ND	3.50	2.63	2100LL-560H-RC
	68	4.7	34.0	0.030	19.30	0.86	M1410-ND	3.50	2.63	2100LL-680H-RC
	82	4.6	39.9	0.032	19.30	0.86	M1411-ND	3.50	2.63	2100LL-820H-RC
	100	4.3	46.2	0.036	19.30	0.86	M1412-ND	3.50	2.63	2100LL-101H-RC
	120	4.1	53.5	0.039	19.30	0.86	M1413-ND	3.50	2.63	2100LL-121H-RC
	150	3.9	63.8	0.043	19.30	0.86	M1414-ND	3.50	2.63	2100LL-151H-RC
	180	3.7	73.3	0.048	19.30	0.86	M1415-ND	3.50	2.63	2100LL-181H-RC
	220	3.5	85.1	0.053	19.30	0.86	M1416-ND	3.50	2.63	2100LL-221H-RC
	270	2.7	124.2	0.093	18.80	0.69	M1417-ND	3.50	2.63	2100LL-271H-RC
	330	2.5	145.1	0.103	18.80	0.69	M1418-ND	3.50	2.63	2100LL-331H-RC
	390	2.4	165.4	0.112	18.80	0.69	M1419-ND	3.50	2.63	2100LL-391H-RC
	470	2.3	190.1	0.124	19.30	0.69	M1420-ND	3.50	2.63	2100LL-471H-RC
2200LL Series										
2A	10	14.3	6.0	0.006	26.67	1.35	M1421-ND	4.75	3.57	2200LL-100H-RC
	12	14.2	6.9	0.006	26.67	1.35	M1422-ND	4.75	3.57	2200LL-120H-RC
	15	13.6	8.3	0.007	26.67	1.35	M1423-ND	4.75	3.57	2200LL-150H-RC
	18	13.1	9.7	0.007	26.67	1.35	M1424-ND	4.75	3.57	2200LL-180H-RC
	22	12.6	11.5	0.008	26.67	1.35	M1425-ND	4.75	3.57	2200LL-220H-RC
	27	11.8	13.5	0.009	26.67	1.35	M1426-ND	4.75	3.57	2200LL-270H-RC
	33	11.1	15.7	0.010	26.67	1.35	M1427-ND	4.75	3.57	2200LL-330H-RC
	39	10.8	18.1	0.011	26.67	1.35	M1428-ND	4.75	3.57	2200LL-390H-RC
	47	10.3	20.9	0.012	26.67	1.35	M1429-ND	4.75	3.57	2200LL-470H-RC
	56	9.8	23.9	0.013	26.67	1.35	M1430-ND	4.75	3.57	2200LL-560H-RC
	68	7.6	33.9	0.022	26.16	1.07	M1431-ND	4.75	3.57	2200LL-680H-RC
	82	7.1	39.0	0.024	26.16	1.07	M1432-ND	4.75	3.57	2200LL-820H-RC
	100	6.8	45.6	0.027	26.16	1.07	M1433-ND	4.75	3.57	2200LL-101H-RC
	120	5.1	63.4	0.047	25.65	0.86	M1434-ND	4.75	3.57	2200LL-121H-RC
	150	4.9	76.0	0.052	25.65	0.86	M1435-ND	4.75	3.57	2200LL-151H-RC
	180	4.7	88.5	0.057	25.65	0.86	M1436-ND	4.75	3.57	2200LL-181H-RC
	220	4.4	103.1	0.063	25.65	0.86	M1437-ND	4.75	3.57	2200LL-221H-RC
	270	4.0	141.9	0.077	25.65	0.69	M1439-ND	4.75	3.57	2200LL-331H-RC
	390	3.8	161.2	0.084	25.65	0.69	M1440-ND	4.75	3.57	2200LL-391H-RC
	470	3.7	185.7	0.092	25.65	0.69	M1441-ND	4.75	3.57	2200LL-471H-RC
High Temperature										
2100HT Series										
1A	10	9.9	7.6	0.012	19.30	1.07	M8917-ND	2.63	1.88	2100HT-100-H-RC
	15	9.1	11.0	0.014	19.30	1.07	M8918-ND	2.63	1.88	2100HT-150-H-RC
	33	6.1	24.0	0.031	20.07	0.86	M8919-ND	2.63	1.88	2100HT-330-H-RC
	47	5.6	33.1	0.036	20.07	0.86	M8920-ND	2.63	1.88	2100HT-470-H-RC
	100	4.6	64.5	0.053	20.07	0.86	M8921-ND	2.63	1.88	2100HT-101-H-RC
	47	5.6	33.1	0.036	8.89	0.86	M8922-ND	2.63	1.88	2100HT-470-V-RC
2200HT Series										
2A	12	10.9	9.4	0.015	22.35	1.35	M8923-ND	3.26	2.33	2200HT-120-H-RC
	39	8.1	27.4	0.026	22.10	1.07	M8924-ND	2.79	2.10	2200HT-390-H-RC
	100	5.3	68.9	0.061	22.86	0.86	M8925-ND	2.79	2.10	2200HT-101-H-RC
	180	4.6	115.6	0.082	22.86	0.86	M8926-ND	2.79	2.10	2200HT-181-H-RC
2300HT Series										
3A	10	23.3	7.2	0.006	29.97	1.68	M8927-ND	4.29	3.22	2300HT-100-H-RC
	33	13.6	23.0	0.015	28.96	1.35	M8928-ND	4.29	3.22	2300HT-330-H-RC
	47	10.0	34.7	0.028	28.70	1.07	M8929-ND	4.29	3.22	2300HT-470-H-RC
	150	7.5	97.9	0.050	29.72	1.07	M8930-ND	4.29	3.22	2300HT-151-H-RC
	220	6.8	136.6	0.061	29.72	1.07	M8931-ND	4.29	3.22	2300HT-221-H-RC
	330	4.9	218.3	0.10	29.46	0.94	M8932-ND	4.29	3.22	2300HT-331-H-RC
	470	4.5	297.9	0.14	29.46	0.94	M8933-ND	4.29	3.22	2300HT-471-H-RC
3B	10	23.3	7.2	0.006	14.22	1.68	M8934-ND	4.29	3.22	2300HT-100-V-RC
	22	19.0	14.5	0.008	14.22	1.68	M8935-ND	4.29	3.22	2300HT-220-V-RC
	47	10.0	34.7	0.028	13.21	1.07	M8936-ND	4.29	3.22	2300HT-470-V-RC

Common Mode Choke with Header

8100 Series

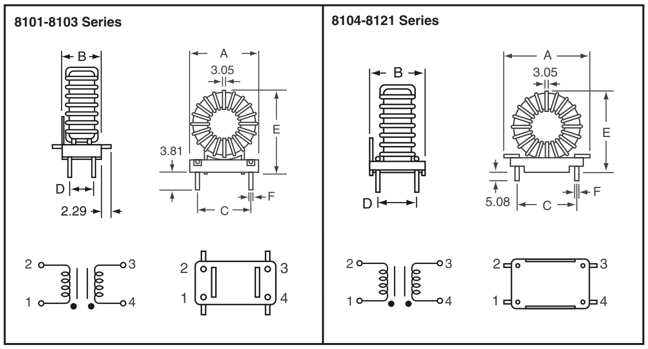
8101-8103 Series

8104-8121 Series

L (mH) Min. @ 1kHz	I Max. (A)	R,dc Max. (Ω)	Dimensions (mm) A Max.	B ±0.01	C ±0.015	D ±0.015	E Max.	F Max.	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
4	1.7	0.173	19.30	10.79	15.24	6.35	22.86	1.02	M8896-ND	5.70	4.28	8101-RC
2.5	2.4	0.09	19.30	10.79	15.24	6.35	22.86	1.02	M8897-ND	5.70	4.28	8102-RC
1	4.8	0.022	19.30	10.79	15.24	6.35	22.86	1.02	M8898-ND	5.70	4.28	8103-RC
10	2.4	0.17	30.48	15.24	20.32	10.16	30.48	1.27	M8899-ND	7.98	5.99	8104-RC
7	2.8	0.12	30.48	15.24	20.32	10.16	30.48	1.27	M8900-ND	7.98	5.99	8105-RC
5	3.7	0.07	30.48	15.24	20.32	10.16	30.48	1.27	M8901-ND	7.98	5.99	8106-RC
2	6.6	0.022	30.48	15.24	20.32	10.16	30.48	1.27	M8902-ND	7.98	5.99	8107-RC
1	10	0.01	30.48	15.24	20.32	10.16	30.48	1.27	M8903-ND	7.98	5.99	8108-RC
30	2.3	0.33	34.29	20.32	22.86	15.24	36.83	1.27	M8904-ND	12.54	9.41	8109-RC
20	2.9	0.21	34.29	20.32	22.86	15.24	36.83	1.27	M8905-ND	12.54	9.41	8110-RC
12	4	0.11	34.29	20.32	22.86	15.24	36.83	1.27	M8906-ND	12.54	9.41	8111-RC
8	5.6	0.055	34.29	20.32	22.86	15.24	36.83	1.27	M8907-ND	12.54	9.41	8112-RC
5	8.9	0.022	36.83	20.32	22.86	15.24	38.10	1.09	M8908-ND	12.54	9.41	8113-RC
2.5	12.5	0.011	36.83	20.32	22.86	15.24	38.10	1.35	M8909-ND	12.54	9.41	8114-RC
1.2	16	0.006	38.10	20.32	22.86	15.24	38.86	1.52	M8910-ND	12.54	9.41	8115-RC
50	2.3	0.45	39.37	20.32	22.86	15.24	41.91	1.27	M8911-ND	11.97	10.64	8116-RC
36	2.9	0.3	39.37	20.32	22.86	15.24	41.91	1.27	M8912-ND	11.97	10.64	8117-RC
7.3	9.3	0.032	41.91	20.32	22.86	15.24	41.91	1.09	M8913-ND	11.97	10.64	8118-RC
4	14.5	0.012	43.18	22.86	30.48	17.78	41.91	1.52	M8914-ND	11.97	10.64	8119-RC
2.4	17	0.008	43.18	22.86	30.48	17.78	41.91	1.70	M8915-ND	11.97	10.64	8120-RC
1	20	0.007	43.18	22.86	30.48	17.78	41.91	1.70	M8916-ND	11.97	10.64	8121-RC

SMT Common Mode Chokes

3700 Series

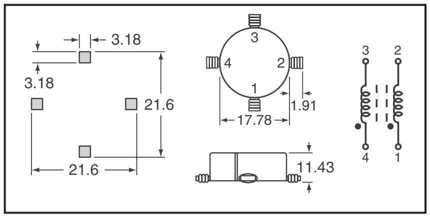

L (mH)	DCR (Ω) Max.	I* (A)	Freq. Range with 20dB Atten. (Typ.)	Digi-Key Part No.	Price Each 1	Price Each 10	Tape and Reel Pricing‡ 200	J.W.Miller Part No.
0.2	0.008	7.0	5-55MHz	M8937CT-ND	2.85	2.14	266.00	PM3700-10-RC
0.75	0.012	5.5	1-20MHz	M8938CT-ND	2.85	2.14	266.00	PM3700-30-RC
2.0	0.03	3.5	300kHz-20MHz	M3939CT-ND	2.85	2.14	266.00	PM3700-50-RC
20	0.25	1.0	25kHz-4MHz	M3940CT-ND	2.85	2.14	266.00	PM3700-80-RC

* Current to cause 35°C maximum temperature rise. ‡ For Tape and Reel part number, change CT-ND to TR-ND.

J.W.Miller
MAGNETICS
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High Current RF Chokes

1110, 1120, 1130 and 1140 Series

1110 Series

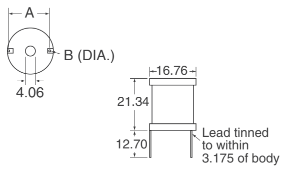

1120 Series

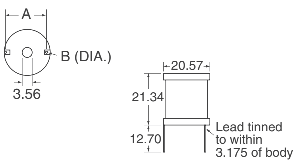

1130 Series

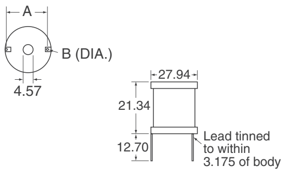

1140 Series

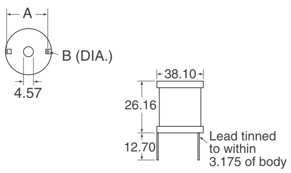

L (uH) ±20% @ 1kHz	DCR (Ω) Max.	I,dc (A)	Dimension (mm) A Approx.	B Nom.	Digi-Key Part No.	Price Each 1	10	25	J.W.Miller Part No.
1110 Series 10%									
10.00	0.01	9.00	13.97	1.27	M8338-ND	2.65	1.99	1.77	1110-100K-RC
12.00	0.01	9.00	13.97	1.27	M8339-ND	2.65	1.99	1.77	1110-120K-RC
15.00	0.02	7.20	13.46	1.27	M8340-ND	2.65	1.99	1.77	1110-150K-RC
22.00	0.02	5.50	13.46	1.27	M8341-ND	2.65	1.99	1.77	1110-220K-RC
47.00	0.06	2.80	13.46	1.02	M8342-ND	2.65	1.99	1.77	1110-470K-RC
100.00	0.10	2.80	12.70	0.76	M8343-ND	2.65	1.99	1.77	1110-101K-RC
150.00	0.18	1.60	12.70	0.76	M8344-ND	2.65	1.99	1.77	1110-151K-RC
220.00	0.24	1.60	12.70	0.76	M8345-ND	2.65	1.99	1.77	1110-221K-RC
330.00	0.34	1.30	11.94	0.51	M8346-ND	2.65	1.99	1.77	1110-331K-RC
560.00	0.70	0.80	11.94	0.51	M8347-ND	2.65	1.99	1.77	1110-561K-RC
1120 Series 20%									
4.70	0.01	11.40	16.00	1.52	M8348-ND	3.99	3.00	2.66	1120-4R7M-RC
1120 Series 10%									
10.00	0.01	11.40	16.00	1.52	M8349-ND	3.99	3.00	2.66	1120-100K-RC
12.00	0.01	11.40	16.00	1.52	M8350-ND	3.99	3.00	2.66	1120-120K-RC
47.00	0.04	5.50	15.75	1.27	M8351-ND	3.99	3.00	2.66	1120-470K-RC
68.00	0.05	4.80	15.75	1.02	M8352-ND	3.99	3.00	2.66	1120-680K-RC
82.00	0.06	4.80	15.75	1.02	M8353-ND	3.99	3.00	2.66	1120-820K-RC
100.00	0.08	4.00	15.75	1.02	M8354-ND	3.99	3.00	2.66	1120-101K-RC
150.00	0.10	4.00	15.75	0.76	M8355-ND	3.99	3.00	2.66	1120-151K-RC
220.00	0.15	2.80	15.75	0.76	M8356-ND	3.99	3.00	2.66	1120-221K-RC
270.00	0.21	2.00	15.24	0.76	M8357-ND	3.99	3.00	2.66	1120-271K-RC
470.00	0.36	1.60	15.24	0.76	M8358-ND	3.99	3.00	2.66	1120-471K-RC
1000.00	0.82	1.00	15.24	0.51	M8359-ND	3.99	3.00	2.66	1120-102K-RC
1500.00	1.26	0.80	15.24	0.51	M8360-ND	3.99	3.00	2.66	1120-152K-RC
1130 Series 20%									
1.20	0.00	21.00	20.32	2.03	M8361-ND	6.15	4.62	4.10	1130-1R2M-RC
8.20	0.00	21.00	20.83	2.03	M8362-ND	6.15	4.62	4.10	1130-8R2M-RC
1130 Series 10%									
10.00	0.01	17.00	20.83	2.03	M8363-ND	6.15	4.62	4.10	1130-100K-RC
39.00	0.02	11.40	20.07	1.52	M8364-ND	6.15	4.62	4.10	1130-390K-RC
100.00	0.03	9.00	20.07	1.27	M8365-ND	6.15	4.62	4.10	1130-101K-RC
120.00	0.05	7.20	20.07	1.27	M8366-ND	6.15	4.62	4.10	1130-121K-RC
220.00	0.08	5.50	19.56	1.02	M8367-ND	6.15	4.62	4.10	1130-221K-RC
470.00	0.19	4.00	19.56	1.02	M8368-ND	6.15	4.62	4.10	1130-471K-RC
560.00	0.21	4.00	19.56	0.76	M8369-ND	6.15	4.62	4.10	1130-561K-RC
680.00	0.26	2.80	19.56	0.76	M8370-ND	6.15	4.62	4.10	1130-681K-RC
1500.00	0.52	2.00	19.05	0.76	M8371-ND	6.15	4.62	4.10	1130-152K-RC
3300.00	1.27	1.30	19.05	0.51	M8372-ND	6.15	4.62	4.10	1130-332K-RC
4700.00	1.86	1.00	19.05	0.51	M8373-ND	6.15	4.62	4.10	1130-472K-RC
1140 Series 10%									
18.00	0.01	27.00	29.21	2.03	M8374-ND	9.56	8.50	7.44	1140-180K-RC
33.00	0.01	21.00	29.21	1.78	M8375-ND	9.56	8.50	7.44	1140-330K-RC
68.00	0.02	14.40	29.21	1.52	M8376-ND	9.56	8.50	7.44	1140-680K-RC
100.00	0.03	14.40	29.21	1.52	M8377-ND	9.56	8.50	7.44	1140-101K-RC
120.00	0.03	14.40	29.21	1.52	M8378-ND	9.56	8.50	7.44	1140-121K-RC
220.00	0.05	11.40	29.21	1.27	M8379-ND	9.56	8.50	7.44	1140-221K-RC
330.00	0.07	11.40	29.21	1.27	M8380-ND	9.56	8.50	7.44	1140-331K-RC
820.00	0.15	7.20	29.21	1.02	M8381-ND	9.56	8.50	7.44	1140-821K-RC
1200.00	0.23	5.50	28.96	1.02	M8382-ND	9.56	8.50	7.44	1140-122K-RC
2200.00	0.49	4.00	27.94	0.76	M8383-ND	9.56	8.50	7.44	1140-222K-RC
3900.00	0.85	2.80	27.94	0.76	M8384-ND	9.56	8.50	7.44	1140-392K-RC
4700.00	1.14	2.00	28.45	0.76	M8385-ND	9.56	8.50	7.44	1140-472K-RC
10,000.00	2.76	1.30	28.19	0.51	M8386-ND	9.56	8.50	7.44	1140-103K-RC
15,000.00	3.39	1.30	27.94	0.51	M8387-ND	9.56	8.50	7.44	1140-153K-RC

Conformal Coated RF Chokes

Features:

- Epoxy coating
- Operating Temperature: -55°C ~ 105°C

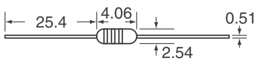

L (µH) 20%	Q Min.	Test Freq. (MHz)	I,dc Max. (mA)	Digi-Key Part No.	Pricing 1	10	J.W.Miller Part No.
0.10	35	25	700	M8110-ND◆	.30	2.40	79FR10M-RC
0.12	35	25	660	M8111-ND◆	.30	2.40	79FR12M-RC
0.15	35	25	620	M8112-ND◆	.30	2.40	79FR15M-RC
0.18	35	25	600	M8113-ND◆	.30	2.40	79FR18M-RC
0.22	35	25	400	M8114-ND◆	.30	2.40	79FR22M-RC
0.27	35	25	380	M8115-ND◆	.30	2.40	79FR27M-RC
0.33	35	25	370	M8116-ND◆	.30	2.40	79FR33M-RC
0.39	35	25	350	M1357-ND	.24	2.10	79FR39M
0.47	35	25	330	M8118-ND◆	.30	2.40	79FR47M-RC
0.68	35	25	310	M8120-ND◆	.30	2.40	79FR68M-RC

L (µH) 10%	Q Min.	Test Freq. (MHz)	I,dc Max. (mA)	Digi-Key Part No.	Pricing 1	10	J.W.Miller Part No.
1.0	35	25	270	M8122-ND◆	.30	2.40	79F1R0K-RC
1.2	40	7.9	260	M8123-ND◆	.30	2.40	79F1R2K-RC
1.5	40	7.9	250	M8124-ND◆	.30	2.40	79F1R5K-RC
1.8	40	7.9	240	M8125-ND◆	.30	2.40	79F1R8K-RC
3.9	40	7.9	200	M8129-ND◆	.30	2.40	79F3R9K-RC
4.7	40	7.9	190	M8130-ND◆	.30	2.40	79F4R7K-RC
15	40	2.5	145	M8136-ND◆	.30	2.40	79F150K-RC
27	40	2.5	80	M8139-ND◆	.30	2.40	79F270K-RC
39	40	2.5	74	M1381-ND	.24	2.10	79F390K
39	40	2.5	74	M8141-ND◆	.30	2.40	79F390K-RC
47	40	2.5	70	M8142-ND◆	.30	2.40	79F470K-RC
56	40	2.5	68	M8143-ND◆	.30	2.40	79F560K-RC
100	40	2.5	44	M8146-ND◆	.30	2.40	79F101K-RC
120	40	0.79	42	M8147-ND◆	.30	2.40	79F121K-RC
150	40	0.79	39	M8148-ND◆	.30	2.40	79F151K-RC
180	40	0.79	37	M8939-ND◆	.30	2.40	79F181K-RC
220	40	0.79	35	M8150-ND◆	.30	2.40	79F221K-RC

◆ *RoHS Compliant*

J.W.Miller
MAGNETICS
A Bourns Company

Radial Lead High Current RF Chokes

Parts finished
with VWI
rated sleeving

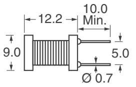

L (µH) 10%	Q Min.	Test Freq. (MHz)	I, dc Max. (A)	R,dc Max. Ohms	Digi-Key Part No.	Price Each 1	Price Each 10	J.W.Miller Part No.
12	50	2.52	3.1	.050	M8617-ND	1.00	.75	6000-120K-RC
18	40	2.52	2.66	.061	M8619-ND	1.00	.75	6000-180K-RC
22	40	2.52	2.4	.070	M8620-ND	1.00	.75	6000-220K-RC
39	30	2.52	1.85	.10	M8623-ND	1.00	.75	6000-390K-RC
820	20	.796	.56	1.8	M8639-ND	1.00	.75	6000-821K-RC

Coiled RF Chokes

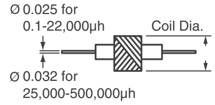

L (µH) 5%	Q Min.	Test Freq. (MHz)	I, dc Max. (mA)	DCR Ω Max.	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
Iron Core								
1.0†	41	25	2041	4.19	M8388-ND	1.25	1.00	70F106AI-RC
2.2††	43	7.9	1132	4.06	M8398-ND	1.25	1.00	70F226AI-RC
3.3††	40	7.9	912	3.81	M8403-ND	1.25	1.00	70F336AI-RC
4.7††	43	7.9	661	3.81	M8409-ND	1.25	1.00	70F476AI-RC
6.8††	40	7.9	566	3.81	M8412-ND	1.25	1.00	70F686AI-RC
10††	36	7.9	277	4.06	M8389-ND	1.20	.90	70F105AI-RC
22	51	2.5	229	4.19	M8394-ND	1.20	.90	70F225AI-RC
33	50	2.5	208	4.32	M8399-ND	1.20	.90	70F335AI-RC
47	44	2.5	188	4.44	M8404-ND	1.20	.90	70F475AI-RC
100	25	2.5	139	4.19	M8390-ND	1.28	.96	70F104AI-RC
470	35	.79	95	4.70	M8405-ND	1.28	.96	70F474AI-RC
1,000	30	.79	79	5.71	M8391-ND	1.52	1.14	70F103AI-RC
2,200	40	.25	57	6.10	M8395-ND	1.52	1.14	70F223AI-RC
3,300	52	.25	53	6.60	M8400-ND	1.52	1.14	70F333AI-RC
4,700	49	.25	48	7.24	M8406-ND	1.52	1.14	70F473AI-RC
6,800	51	.25	43	7.87	M8410-ND	1.52	1.14	70F683AI-RC
10,000	41	.25	38	8.51	M8392-ND	2.00	1.50	70F102AI-RC
22,000	50	.079	41	8.38	M8396-ND	1.75	1.25	70F222AI-RC
Ferrite Core								
33,000	61	.079	43	8.97	M8401-ND	1.75	1.25	70F332AF-RC
47,000	57	.079	38	9.75	M8407-ND	1.75	1.25	70F472AF-RC
68,000	57	.079	34	10.54	M8411-ND	1.75	1.25	70F682AF-RC
100,000	48	.079	29	11.33	M8393-ND	2.45	1.75	70F101AF-RC
220,000	51	.025	39	13.72	M8397-ND	1.75	1.25	70F221AF-RC
330,000	54	.025	34	14.73	M8402-ND	2.45	1.75	70F331AF-RC
470,000	55	.025	30	15.62	M8408-ND	2.45	1.75	70F471AF-RC

† 20% tolerance †† 10% tolerance

Hash Chokes

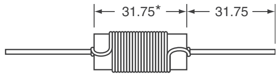

* 5230 Form Length is 22.23

L (µH) 20%	R, dc Max. (Ω)	I, dc Max. (A)	Coil Dia. Max. (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
Ferrite Core							
4	.012	8	9.65	M8268-ND	1.60	1.20	5230-RC
40	.082	3	7.87	M8269-ND	1.60	1.20	5240-RC
68	.054	5	14.22	M8270-ND	1.40	1.00	5248-RC
100	.216	2	9.65	M8271-ND	1.40	1.00	5250-RC
125	.08	3.5	12.70	M8272-ND	1.40	1.00	5252-RC
250	.17	2.5	11.18	M8273-ND	1.40	1.00	5254-RC
500	.26	2	14.22	M8274-ND	1.40	1.00	5256-RC
1,000	.55	1	12.70	M8275-ND	1.40	1.00	5258-RC

Molded RF Chokes

9230 Series:
Form Length: 6.35mm; Form Diameter: 2.41mm; Lead Length: 38.10mm; Tolerance: ±10%

9250 Series:
Form Length: 10.41mm; Form Diameter: 4.11mm; Lead Length: 25.4mm; Tolerance: ±10%

9250A Series:
Form Length: 10.41mm; Form Diameter: 4.11mm; Lead Length: 25.4mm; Tolerance: ±10%. The 9250A uses a ferrite compound for the shield, as opposed to the 9250 which uses a ferrite sleeve.

L (µH)	Q Min.	Test Freq. (MHz)	I, dc Max. (mA)	DCR Ω Max.	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
9230 Series — Unshielded - RoHS Compliant								
Phenolic Core								
0.1	40	25.0	1100	0.07	M8656-ND	1.63	1.30	9230-94-RC
0.15	38	25.0	1100	0.10	M8657-ND	1.63	1.30	9230-00-RC
0.22	33	25.0	935	0.14	M8658-ND	1.63	1.30	9230-04-RC
0.33	30	25.0	780	0.20	M8659-ND	1.63	1.30	9230-08-RC
0.47	30	25.0	590	0.35	M8660-ND	1.63	1.30	9230-12-RC
0.68	28	25.0	450	0.60	M8661-ND	1.63	1.30	9230-16-RC
1.0	25	25.0	350	1.0	M8641-ND	1.63	1.30	9230-20-RC
Iron Core								
2.2	30	7.9	550	0.40	M8647-ND	1.30	.98	9230-28-RC
3.3	45	7.9	380	0.85	M8650-ND	1.30	.98	9230-32-RC
4.7	45	7.9	320	1.2	M8653-ND	1.30	.98	9230-36-RC
6.8	50	7.9	245	2.0	M8655-ND	1.30	.98	9230-40-RC
10	55	7.9	180	3.7	M8642-ND	1.30	.98	9230-44-RC
22	50	2.5	190	3.3	M8645-ND	1.30	.98	9230-52-RC
Ferrite Core								
33	45	2.5	187	3.4	M8648-ND	1.60	1.20	9230-56-RC
47	45	2.5	165	4.5	M8651-ND	1.60	1.20	9230-60-RC
68	50	2.5	135	6.7	M8654-ND	1.60	1.20	9230-64-RC
100	50	2.5	125	8.0	M8643-ND	1.60	1.20	9230-68-RC
220	30	0.79	73	21	M8646-ND	1.60	1.20	9230-76-RC
330	30	0.79	62	28	M8649-ND	1.60	1.20	9230-80-RC
470	30	0.79	50	42	M8652-ND	1.60	1.20	9230-84-RC
1,000	30	0.79	38	72	M8644-ND	1.60	1.20	9230-92-RC
9250 Series — Shielded								
Phenolic Core								
0.1	50	25.0	1790	0.025	M8206-ND◆	2.18	1.64	9250-101-RC
0.15	51	25.0	1470	0.037	M8207-ND◆	1.90	1.36	9250-151-RC
0.18	50	25.0	1300	0.047	M8208-ND◆	1.90	1.36	9250-181-RC
0.27	47	25.0	855	0.11	M9206-ND	2.18	1.91	9250-271
0.33	46	25.0	780	0.13	M8210-ND◆	1.90	1.36	9250-331-RC
0.47	44	25.0	565	0.25	M8211-ND◆	1.90	1.36	9250-471-RC
0.68	42	25.0	420	0.45	M9211-ND	1.77	1.65	9250-681
Iron Core								
1.5	44	7.9	815	0.12	M9215-ND	1.99	1.85	9250-152
1.8	44	7.9	775	0.14	M8215-ND◆	1.99	1.42	9250-182-RC
3.3	44	7.9	480	0.35	M8217-ND◆	1.99	1.42	9250-332-RC
3.9	44	7.9	450	0.40	M8218-ND◆	1.99	1.42	9250-392-RC
4.7	44	7.9	380	0.55	M8219-ND◆	1.99	1.42	9250-472-RC
5.6	44	7.9	335	0.72	M9224-ND	1.99	1.85	9250-562
8.2	50	7.9	250	1.32	M8220-ND◆	1.99	1.42	9250-822-RC
Ferrite Core								
15	45	2.5	315	0.80	M8222-ND◆	1.99	1.42	9250-153-RC
18	45	2.5	300	0.89	M8223-ND◆	2.39	1.71	9250-183-RC
22	45	2.5	290	0.96	M8224-ND◆	1.99	1.42	9250-223-RC
27	45	2.5	260	1.19	M8225-ND◆	2.39	1.71	9250-273-RC
33	45	2.5	240	1.37	M8226-ND◆	2.19	1.57	9250-333-RC
39	50	2.5	205	1.93	M8227-ND◆	2.19	1.57	9250-393-RC
56	50	2.5	190	2.23	M8229-ND◆	2.39	1.71	9250-563-RC
68	50	2.5	170	2.70	M8230-ND◆	2.39	1.71	9250-683-RC
82	50	2.5	180	2.44	M8231-ND◆	2.39	1.71	9250-823-RC
180	55	.79	135	4.4	M8235-ND◆	2.39	1.71	9250-184-RC
270	55	.79	115	5.8	M9244-ND	2.39	2.22	9250-274
270	55	.79	115	5.8	M8237-ND◆	2.39	1.71	9250-274-RC
390	60	.79	105	7.4	M8239-ND◆	2.39	1.71	9250-394-RC
560	60	.79	90	10.5	M8241-ND◆	2.39	1.71	9250-564-RC
820	60	.79	80	13.0	M8243-ND◆	2.39	1.71	9250-824-RC
1,500	45	.25	55	26.5	M8246-ND◆	2.74	1.96	9250-155-RC
1,800	45	.25	50	29.9	M8247-ND◆	3.06	2.19	9250-185-RC
2,700	45	.25	40	47.3	M8249-ND◆	2.74	1.96	9250-275-RC
3,900	45	.25	35	73.8	M8251-ND◆	2.74	1.96	9250-395-RC
4,700	45	.25	31	81.6	M8252-ND◆	2.95	2.11	9250-475-RC
5,600	44	.25	28	89.9	M8253-ND◆	3.24	2.32	9250-565-RC
6,800	40	.25	27	111	M8254-ND◆	3.24	2.32	9250-685-RC
8,200	40	.25	26	119	M8255-ND◆	2.95	2.11	9250-825-RC
12,000	30	.079	23	143	M8257-ND◆	2.81	2.11	9250-126-RC
15,000	30	.079	22	157	M8258-ND◆	3.68	2.63	9250-156-RC
27,000	27	.079	16	308	M8261-ND◆	4.80	3.60	9250-276-RC
33,000	27	.079	15	343	M8262-ND◆	4.80	3.60	9250-336-RC
47,000	23	.079	13	473	M8263-ND◆	4.80	3.60	9250-476-RC
56,000	23	.079	13	512	M8264-ND◆	7.47	5.61	9250-566-RC
68,000	23	.079	12	580	M9273-ND	7.53	6.99	9250-686
68,000	23	.079	12	580	M8265-ND◆	6.45	4.84	9250-686-RC
82,000	21	.079	11	618	M8266-ND◆	6.54	4.91	9250-826-RC
100,000	18	.079	11	678	M8267-ND◆	8.10	6.08	9250-107-RC
9250A Series — Shielded — RoHS Compliant								
Phenolic Core								
.10	50	25	1790	0.025	M10079-ND	1.84	1.38	9250A-101-RC
0.15	51	25	1470	0.037	M10090-ND	1.84	1.38	9250A-151-RC
0.18	50	25	1300	0.047	M10095-ND	1.84	1.38	9250A-181-RC
0.22	49	25	1100	0.067	M10099-ND	1.84	1.38	9250A-221-RC
0.33	46	25	780	0.13	M10109-ND	1.84	1.38	9250A-331-RC
0.39	44	25	670	0.18	M10115-ND	1.84	1.38	9250A-391-RC
0.82	40	25	370	0.59	M10129-ND	1.84	1.38	9250A-821-RC
Iron Core								
1.0	40	25	1070	0.07	M10080-ND	1.84	1.38	9250A-102-RC
1.2	44	7.9	895	0.10	M10086-ND	1.84	1.38	9250A-122-RC
1.5	44	7.9	815	0.12	M10091-ND	1.84	1.38	9250A-152-RC
2.2	44	7.9	650	0.19	M10100-ND	1.84	1.38	9250A-222-RC
3.3	44	7.9	480	0.35	M10110-ND	1.84	1.38	9250A-332-RC
3.9	44	7.9	450	0.40	M10116-ND	1.84	1.38	9250A-392-RC
4.7	44	7.9	380	0.55	M10118-ND	1.84	1.38	9250A-472-RC
5.6	44	7.9	335	0.72	M10123-ND	1.84	1.38	9250A-562-RC
8.2	50	7.9	250	1.32	M10130-ND	1.84	1.38	9250A-822-RC
10	50	7.9	220	1.62	M10081-ND	1.84	1.38	9250A-103-RC
Ferrite Core								
12	55	2.5	200	2.0	M10087-ND	1.84	1.38	9250A-123-RC
15	45	2.5	315	0.80	M10092-ND	1.84	1.38	9250A-153-RC
18	45	2.5	300	0.89	M10096-ND	1.84	1.38	9250A-183-RC
22	45	2.5	290	0.96	M10101-ND	1.84	1.38	9250A-223-RC
27	45	2.5	260	1.19	M10105-ND	1.84	1.38	9250A-273-RC
33	45	2.5	240	1.37	M10111-ND	1.84	1.38	9250A-333-RC
39	50	2.5	205	1.93	M10117-ND	1.84	1.38	9250A-393-RC
47	50	2.5	195	2.11	M10119-ND	1.84	1.38	9250A-473-RC
82	50	2.5	180	2.44	M10131-ND	1.84	1.38	9250A-823-RC
100	50	2.5	160	3.12	M10082-ND	1.84	1.38	9250A-104-RC
150	55	0.79	140	4.1	M10093-ND	1.84	1.38	9250A-154-RC
180	55	0.79	135	4.4	M10097-ND	1.84	1.38	9250A-184-RC
220	55	0.79	125	5.0	M10102-ND	1.84	1.38	9250A-224-RC
270	55	0.79	115	5.8	M10106-ND	1.84	1.38	9250A-274-RC
330	55	0.79	110	6.4	M10112-ND	1.84	1.38	9250A-334-RC
470	60	0.79	92	9.5	M10120-ND	1.84	1.38	9250A-474-RC
560	60	0.79	90	10.5	M10124-ND	1.84	1.38	9250A-564-RC
680	60	0.79	80	11.8	M10126-ND	1.84	1.38	9250A-684-RC
820	60	0.79	80	13.0	M10132-ND	1.84	1.38	9250A-824-RC
1,000	60	0.79	70	17.5	M10083-ND	1.84	1.38	9250A-105-RC
1,200	45	0.25	60	22.1	M10088-ND	1.61	1.15	9250A-125-RC
1,500	45	0.25	55	26.5	M10094-ND	1.61	1.15	9250A-155-RC
1,800	45	0.25	50	29.9	M10098-ND	1.61	1.15	9250A-185-RC
2,200	45	0.25	50	33.8	M10103-ND	1.61	1.15	9250A-225-RC
2,700	45	0.25	40	47.3	M10107-ND	1.61	1.15	9250A-275-RC
3,300	45	0.25	40	53.0	M10113-ND	1.61	1.15	9250A-335-RC
4,700	45	0.25	31	81.6	M10121-ND	1.61	1.15	9250A-475-RC
6,800	40	0.25	27	111	M10127-ND	1.61	1.15	9250A-685-RC
8,200	40	0.25	26	119	M10133-ND	1.61	1.15	9250A-825-RC

◆ ***RoHS Compliant***

(Continued)

J.W.Miller
MAGNETICS
A Bourns Company

Molded RF Chokes *(Cont.)*

L (µH)	Q Min.	Test Freq. (MHz)	I, dc Max. (mA)	DCR Ω Max.	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
10,000	40	0.25	24	137	M10084-ND	1.61	1.15	9250A-106-RC
12,000	30	0.079	23	143	M10089-ND	1.61	1.15	9250A-126-RC
22,000	27	0.079	17	274	M10104-ND	1.61	1.15	9250A-226-RC
27,000	27	0.079	16	308	M10108-ND	1.61	1.15	9250A-276-RC
33,000	27	0.079	15	343	M10114-ND	1.61	1.15	9250A-336-RC
47,000	23	0.079	13	473	M10122-ND	1.61	1.15	9250A-476-RC
56,000	23	0.079	13	512	M10125-ND	1.61	1.15	9250A-566-RC
68,000	23	0.079	12	580	M10128-ND	1.61	1.15	9250A-686-RC
82,000	21	0.079	11	618	M10134-ND	1.38	1.04	9250A-826-RC
100,000	18	0.079	11	678	M10085-ND	1.38	1.04	9250A-107-RC

◆ ***RoHS Compliant***

Filter and Miniature High Current Chokes

Inductance ± 15% @ 1kHz. Coils finished with sleeving VW1 Rated. Leads No. 20 tinned copper 1" long minimum
Ambient Temperature: -55°C ~ 125°C

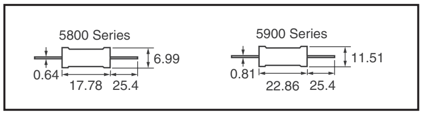

L (µH) ±10%	Max. DCR Ω @ +20°C	Rated Current Amp	Digi-Key Part No.	Price Each 1	10	J.W.Miller Part No.
			5800 Series			
3.9	.019	1.28	M8276-ND	1.33	1.00	5800-3R9-RC
4.7	.022	1.28	M8277-ND	1.33	1.00	5800-4R7-RC
10	.033	1.28	M8278-ND	1.33	1.00	5800-100-RC
12	.037	1.28	M8279-ND	1.33	1.00	5800-120-RC
15	.040	1.28	M8280-ND	1.33	1.00	5800-150-RC
18	.044	1.28	M8281-ND	1.33	1.00	5800-180-RC
22	.050	1.28	M8282-ND	1.33	1.00	5800-220-RC
27	.058	1.28	M8283-ND	1.33	1.00	5800-270-RC
33	.075	1.008	M8284-ND	1.33	1.00	5800-330-RC
39	.094	0.804	M8285-ND	1.33	1.00	5800-390-RC
47	.109	0.804	M8286-ND	1.33	1.00	5800-470-RC
56	.140	0.804	M8287-ND	1.33	1.00	5800-560-RC
68	.145	0.804	M8288-ND	1.33	1.00	5800-680-RC
82	.152	0.804	M8289-ND	1.33	1.00	5800-820-RC
100	.208	0.632	M8290-ND	1.33	1.00	5800-101-RC
120	.283	0.508	M8291-ND	1.33	1.00	5800-121-RC
150	.340	0.508	M8292-ND	1.33	1.00	5800-151-RC
180	.362	0.508	M8293-ND	1.33	1.00	5800-181-RC
220	.430	0.508	M8294-ND	1.33	1.00	5800-221-RC
270	.557	0.400	M8295-ND	1.33	1.00	5800-271-RC
330	.665	0.400	M8296-ND	1.33	1.00	5800-331-RC
390	.772	0.400	M8297-ND	1.33	1.00	5800-391-RC
470	1.15	0.315	M8298-ND	1.33	1.00	5800-471-RC
560	1.27	0.315	M8299-ND	1.33	1.00	5800-561-RC
680	1.61	0.250	M8300-ND	1.33	1.00	5800-681-RC
1,000	2.30	0.200	M8301-ND	1.33	1.00	5800-102-RC
1,200	2.65	0.200	M8302-ND	1.33	1.00	5800-122-RC
1,500	3.45	0.158	M8303-ND	1.33	1.00	5800-152-RC
1,800	4.03	0.158	M8304-ND	1.33	1.00	5800-182-RC
2,200	4.48	0.158	M8305-ND	1.33	1.00	5800-222-RC
2,700	5.90	0.125	M8306-ND	1.33	1.00	5800-272-RC
3,300	6.56	0.125	M8307-ND	1.33	1.00	5800-332-RC
3,900	8.63	0.100	M8308-ND	1.33	1.00	5800-392-RC
4,700	10.5	0.100	M8309-ND	1.33	1.00	5800-472-RC
5,600	13.9	0.082	M8310-ND	1.33	1.00	5800-562-RC
6,800	16.3	0.082	M8311-ND	1.33	1.00	5800-682-RC
8,200	20.8	0.065	M8312-ND	1.33	1.00	5800-822-RC
10,000	26.4	0.050	M8313-ND	1.33	1.00	5800-103-RC
15,000	42.5	0.039	M8314-ND	1.33	1.00	5800-153-RC
18,000	48.3	0.039	M8315-ND	1.33	1.00	5800-183-RC
			5900 Series			
3.9	.007	4.0	M8316-ND	2.37	1.69	5900-3R9-RC
4.7	.008	4.0	M8317-ND	2.37	1.69	5900-4R7-RC
10	.017	4.0	M8318-ND	2.37	1.69	5900-100-RC
22	.026	4.0	M8319-ND	2.37	1.69	5900-220-RC
33	.032	4.0	M8320-ND	2.37	1.69	5900-330-RC
47	.035	4.0	M8321-ND	2.37	1.69	5900-470-RC
68	.047	2.5	M8322-ND	2.37	1.69	5900-680-RC
82	.060	2.0	M8323-ND	2.37	1.69	5900-820-RC
100	.090	1.6	M8324-ND	2.37	1.69	5900-101-RC
150	.129	1.6	M8325-ND	2.37	1.69	5900-151-RC
180	.150	1.6	M8326-ND	2.37	1.69	5900-181-RC
220	.162	1.6	M8327-ND	2.37	1.69	5900-221-RC
330	.212	1.6	M8328-ND	2.37	1.69	5900-331-RC
390	.281	1.6	M8329-ND	2.37	1.69	5900-391-RC
470	.380	1.2	M8330-ND	2.37	1.69	5900-471-RC
680	.548	1.0	M8331-ND	2.37	1.69	5900-681-RC
1,000	.844	0.8	M8332-ND	2.37	1.69	5900-102-RC
2,200	2.00	0.5	M8333-ND	2.37	1.69	5900-222-RC
3,900	2.75	0.4	M8334-ND	2.37	1.69	5900-392-RC
4,700	3.19	0.4	M8335-ND	2.37	1.69	5900-472-RC
10,000	7.30	0.250	M8336-ND	2.03	1.53	5900-103-RC
100,000	89.7	0.065	M8337-ND	2.03	1.53	5900-104-RC

Epoxy Conformal Coated Inductors

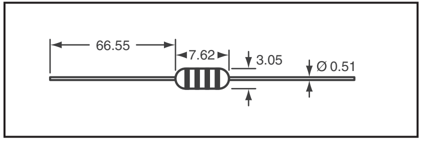

L± 10% µH	Q Min.	Test Freq. MHz	I, dc Max. mA	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
				Phenolic Core			
.10	40	25.0	1100	M8001-ND	2.75	2.20	8230-94
.10	40	25.0	1100	M8159-ND◆	2.75	2.20	8230-94-RC
.18	35	25.0	1010	M8004-ND	2.75	2.20	8230-02
.18	35	25.0	1010	M8160-ND◆	2.75	2.20	8230-02-RC
.22	33	25.0	935	M8005-ND	2.75	2.20	8230-04
.22	33	25.0	935	M8161-ND◆	2.75	2.20	8230-04-RC
.27	33	25.0	875	M8162-ND◆	2.75	2.20	8230-06-RC
.33	30	25.0	780	M8163-ND◆	2.75	2.20	8230-08-RC
.39	30	25.0	640	M8008-ND	2.75	2.20	8230-10
.39	30	25.0	640	M8164-ND◆	2.75	2.20	8230-10-RC
.47	30	25.0	590	M8165-ND◆	2.75	2.20	8230-12-RC
.56	30	25.0	495	M8010-ND	2.75	2.20	8230-14
.56	30	25.0	495	M8166-ND◆	2.75	2.20	8230-14-RC
.68	28	25.0	450	M8167-ND◆	2.75	2.20	8230-16-RC
.82	28	25.0	380	M8012-ND	2.75	2.20	8230-18
.82	28	25.0	380	M8168-ND◆	2.75	2.20	8230-18-RC
1.00	25	25.0	350	M8169-ND◆	2.75	2.20	8230-20-RC
				Iron Core			
1.20	25	7.9	825	M8170-ND◆	2.20	1.65	8230-22-RC
1.50	28	7.9	745	M8171-ND◆	2.20	1.65	8230-24-RC
1.80	30	7.9	640	M8172-ND◆	2.20	1.65	8230-26-RC
2.20	30	7.9	550	M8173-ND◆	2.20	1.65	8230-28-RC
2.70	37	7.9	495	M8174-ND◆	2.20	1.65	8230-30-RC
3.30	45	7.9	380	M8175-ND◆	2.20	1.65	8230-32-RC
3.90	45	7.9	350	M8020-ND	2.20	1.65	8230-34
3.90	45	7.9	350	M8176-ND◆	2.20	1.65	8230-34-RC
4.70	45	7.9	320	M8177-ND◆	2.20	1.65	8230-36-RC
5.60	50	7.9	260	M8022-ND	2.20	1.65	8230-38
5.60	50	7.9	260	M8178-ND◆	2.20	1.65	8230-38-RC
6.80	50	7.9	245	M8179-ND◆	2.20	1.65	8230-40-RC
8.20	55	7.9	210	M8180-ND◆	2.20	1.65	8230-42-RC
10.00	55	7.9	180	M8181-ND◆	2.20	1.65	8230-44-RC
12.00	45	2.5	210	M8026-ND	1.19	.97	8230-46
12.00	45	2.5	210	M8182-ND◆	2.20	1.65	8230-46-RC
15.00	45	2.5	205	M8183-ND◆	2.20	1.65	8230-48-RC
18.00	50	2.5	195	M8184-ND◆	2.20	1.65	8230-50-RC
22.00	50	2.5	190	M8185-ND◆	2.20	1.65	8230-52-RC
27.00	50	2.5	185	M8186-ND◆	2.20	1.65	8230-54-RC
				Ferrite Core			
33.00	45	2.5	187	M8187-ND◆	2.72	2.04	8230-56-RC
39.00	45	2.5	180	M8032-ND	2.72	2.04	8230-58
39.00	45	2.5	180	M8188-ND◆	2.72	2.04	8230-58-RC
47.00	45	2.5	165	M8189-ND◆	2.72	2.04	8230-60-RC
56.00	45	2.5	145	M8034-ND	2.72	2.04	8230-62
56.00	45	2.5	145	M8190-ND◆	2.72	2.04	8230-62-RC
68.00	50	2.5	135	M8035-ND	2.72	2.04	8230-64
68.00	50	2.5	135	M8191-ND◆	2.72	2.04	8230-64-RC
82.00	50	2.5	130	M8036-ND	2.72	2.04	8230-66
82.00	50	2.5	130	M8192-ND◆	2.72	2.04	8230-66-RC
100.00	50	2.5	125	M8193-ND◆	2.72	2.04	8230-68-RC
120.00	30	.79	97	M8038-ND	2.72	2.04	8230-70
120.00	30	.79	97	M8194-ND◆	2.72	2.04	8230-70-RC
150.00	30	.79	85	M8195-ND◆	2.72	2.04	8230-72-RC
180.00	30	.79	79	M8040-ND	2.72	2.04	8230-74
180.00	30	.79	79	M8196-ND◆	2.72	2.04	8230-74-RC
220.00	30	.79	73	M8041-ND	2.72	2.04	8230-76
220.00	30	.79	73	M8197-ND◆	2.72	2.04	8230-76-RC
270.00	30	.79	65	M8042-ND	2.72	2.04	8230-78
270.00	30	.79	65	M8198-ND◆	2.72	2.04	8230-78-RC
330.00	30	.79	62	M8199-ND◆	2.72	2.04	8230-80-RC
390.00	30	.79	55	M8044-ND	2.72	2.04	8230-82
390.00	30	.79	55	M8200-ND◆	2.72	2.04	8230-82-RC
470.00	30	.79	50	M8201-ND◆	2.72	2.04	8230-84-RC
560.00	30	.79	48	M8046-ND	2.72	2.04	8230-86
560.00	30	.79	48	M8202-ND◆	2.72	2.04	8230-86-RC
680.00	30	.79	42	M8047-ND	2.72	2.04	8230-88
680.00	30	.79	42	M8203-ND◆	2.72	2.04	8230-88-RC
820.00	30	.79	40	M8048-ND	2.72	2.04	8230-90
820.00	30	.79	40	M8204-ND◆	2.72	2.04	8230-90-RC
1,000.00	30	.79	38	M8205-ND◆	2.72	2.04	8230-92-RC

◆ ***RoHS Compliant***

Epoxy Conformal Coated Inductors

Specifications:

- **Operating Temperature:** -55°C ~ 105°C • **Working Voltage:** 250VDC maximum • **Material:** Coating-Epoxy Leads-Tinned Copper
- **Core Material:** Ferrite

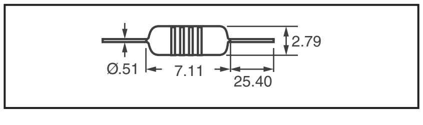

L± 20% (µH)	Q Min.	Test Freq. (MHz)	I, dc Max. (mA)	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
.10	40	25.0	500	M10147-ND◆	.30	.24	78FR10M-RC
.18	40	25.0	450	M7804-ND	.24	.21	78FR18M
.22*	40	25.0	1025	M10148-ND◆	.30	.24	78FR22K-RC
1.0	40	25.0	385	M10137-ND◆	.30	.24	78F1R0K-RC
2.2	50	7.9	395	M10140-ND◆	.30	.24	78F2R2K-RC
4.7	45	7.9	230	M10143-ND◆	.30	.24	78F4R7J-RC
8.2	40	7.9	155	M10146-ND◆	.30	.24	78F8R2J-RC
10	40	7.9	130	M10135-ND◆	.30	.24	78F100J-RC
22	50	2.5	140	M10138-ND◆	.30	.24	78F220J-RC
47	60	2.5	167	M10141-ND◆	.30	.24	78F470J-RC
68	60	2.5	137	M10144-ND◆	.30	.24	78F680J-RC
82	60	2.5	132	M10145-ND◆	.30	.24	78F820J-RC
100	60	2.5	125	M10136-ND◆	.30	.24	78F101J-RC
220	60	0.79	76	M10139-ND◆	.30	.24	78F221J-RC
470	60	0.79	53	M10142-ND◆	.30	.24	78F471J-RC
560†	60	0.79	85	M8155-ND◆	.30	.24	78F561J-RC
680†	60	0.79	68	M8156-ND◆	.30	.24	78F681J-RC
1000†	60	0.79	60	M8158-ND◆	.30	.24	78F102J-RC

◆ ***RoHS Compliant*** * Rated at L ± 10% µH † Rated at L ± 5% µH

Wide-Band Chokes

Fig. 1

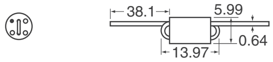

Fig. 2

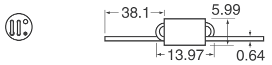

Fig. 3

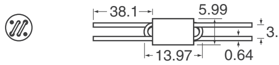

Fig.	No. of Turns	Min. Z (Ω)	Freq. (MHz)	Digi-Key Part No.	Price Each 1	10	J.W.Miller Part No.
1	1 1/2	225	10	M8693-ND	.85	.68	FB20009-3B-RC
		175	10	M8696-ND	.85	.68	FB20019-4B-RC
2	2 1/2	460	10	M8694-ND	.85	.68	FB20010-3B-RC
		30	10	M8697-ND	.85	.68	FB20020-4B-RC
3	2 x 1 1/2	215	10	M8695-ND	.85	.68	FB20011-3B-RC
		175	10	M8698-ND	.85	.68	FB20021-4B-RC

Ferrite Beads

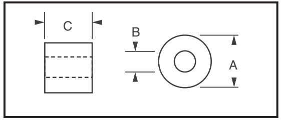

The addition of a Ferrite Bead to a piece of wire causes the impedance of the lead to increase and acts like a small RF choke at high frequencies.
It is possible to dissipate high frequency parasitic signals and attenuate undesirable frequencies that travel on DC circuits by the use of beads.

Frequency Range	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	J.W.Miller Part No.
0-40MHz	1.32	.69	2.16	M8699-ND	.25	2.00	FB73-085-RC
40-200MHz	3.12	1.02	5.61	M8700-ND	.18	1.40	FB43-226-RC
0-40MHz	3.18	1.02	5.61	M8701-ND	.25	2.00	FB73-226-RC
40-200MHz	3.18	1.02	2.87	M8702-ND	.18	1.40	FB43-110-RC
200+MHz	3.18	1.02	2.87	M8703-ND	.18	1.40	FB64-110-RC
0-40MHz	3.12	1.02	2.87	M8704-ND	.25	2.00	FB73-110-RC
40-200MHz	4.70	1.27	10.46	M8705-ND	.25	2.00	FB43-422-RC
0-40MHz	4.70	1.27	10.46	M8706-ND	.30	2.40	FB73-422-RC
40-200MHz	7.14	2.13	7.16	M8707-ND	.18	1.40	FB43-287-RC
0-40MHz	7.14	2.13	7.16	M8708-ND	.25	2.00	FB73-287-RC

J.W.Miller MAGNETICS A Bourns Company

EMI Filters

(For Electromagnetic Interference)

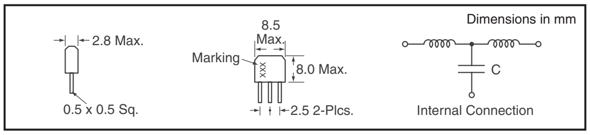

Applications: • Communication equipment, cordless phones, automotive phones • Digital audio and video equipment • Electronic automotive equipment such as engine controls, panels and audio systems • Electronic musical instruments and other digital devices **Specifications:** • Rated Current: 5A • Rated Voltage: 50VDC • DCR: 0.05Ω Maximum • Insulation Resistance: 10GΩ Minimum @ 50VDC • HI-Pot: 125VDC • Operating Temperature: -25°C ~ 85°C

Capacitance ±20% (pF)	25dB AH. Frequency (MHz)	15dB AH. Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Tape and Box Pricing 2,000	J.W.Miller Part No.
22	800	220 ~ 800	M9936CT-ND	.48	.43	M9936TB-ND	142.50/M	EMI220T-RC
47	550 ~ 700	350 ~ 800	M9938CT-ND	.48	.43	M9938TB-ND	142.50/M	EMI470T-RC
100	350 ~ 500	200 ~ 800	M9941CT-ND	.48	.43	M9941TB-ND	142.50/M	EMI101T-RC
220	200 ~ 350	100 ~ 800	M9939CT-ND	.48	.43	M9939TB-ND	142.50/M	EMI221T-RC
270	200 ~ 300	80 ~ 800	M9940CT-ND	.48	.43	M9940TB-ND	142.50/M	EMI271T-RC
470	120 ~ 300	50 ~ 800	M9937CT-ND	.48	.43	M9937TB-ND	142.50/M	EMI471T-RC
1,000	70 ~ 200	30 ~ 800	M9934CT-ND	.48	.43	M9934TB-ND	142.50/M	EMI102T-RC
2,200	45 ~ 200	20 ~ 800	M9942CT-ND	.48	.43	M9942TB-ND	142.50/M	EMI222T-RC
10,000	15 ~ 200	6 ~ 800	M9935CT-ND†	.48	.43	M9935TB-ND†	142.50/M	EMI103T-RC

† Capacitance Tolerance: -20%, +80%

Pulse® A TECHNITROL COMPANY

RF Wide Band Balun Transformers

The Pulse balun transformer offers an excellent insertion loss device in a low cost SMT format.

The RF Baluns are ideal for balanced to unbalanced applications and have been designed for applications such as CATV Distribution/Drop Amplifiers, Set Top Boxes and Home Gateways.

Operating Temperature: -40°C ~ 85°C

Fig. 1

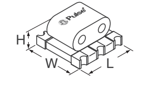

Fig. 2

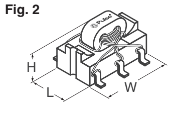

Fig. 3

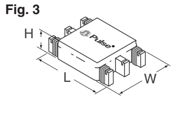

Schematic 1

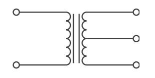

Schematic 2

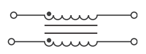

Fig.	Schematic	Impedance Ratio (+ -2%) Primary:Secondary	Turns Ratio (+ -2%) Primary:Secondary	Bandwidth (MHz Typ.) Midband Loss	Insertion Loss (dB Typ.)	Dimensions - Inches L	W	H	Digi-Key Part No.	Price Each 1	10	100	500	Pulse Part No.
1	2	1:1	1:1	10 ~ 1000	0.4	0.202 ±.015	0.204 ±.015	0.14 Max.	553-1050-ND	1.80	1.12	.82	.72	CX2024
	1	1:2CT†	1:1.4CT†	3 ~ 300	0.8	0.15 ±.015	0.15 +.02/-.015	0.11 ±.015	553-1052-ND	2.04	1.27	.93	.82	CX2045L
2	2	1:1	1:1	2.3 ~ 2700	0.2	0.169 ±.004	0.209 ±.004	0.118 +.018/-.012	553-1051-ND	2.04	1.27	.93	.82	CX2156
	1	1:1CT†	1:1CT†	5 ~ 200	0.3	0.272 Max.	0.272 Max.	0.173 Max.	553-1053-ND	1.84	1.14	.84	.74	CX2147
3	1	1:4CT†	1:2CT†	5 ~ 165	0.6	0.36 Max.	0.265 Max.	0.098 Max.	553-1054-ND	2.44	1.59	1.22	1.08	CX2032

† CT indicates Center Tap

TOKO

Balun Transformers

Toko's high quality balun (balanced/unbalanced) transformers are precisely wound around a double ferrite core. Toko's baluns are ideally suited for designing double balanced mixers, directional couplers, signal splitters, signal distributors, and impedance matching circuits.

Dimensions in mm

Type B5F - SMD

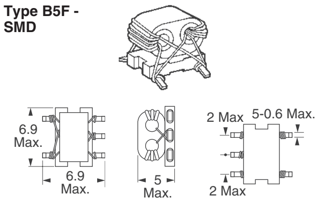

Type B7T - Leaded

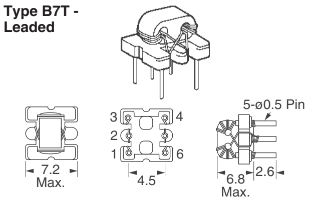

Fig. 1

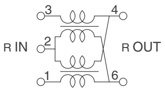

Fig. 2

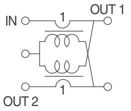

Fig.	Winding	Operating Frequency Range	Insertion Loss	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Toko Part No.
				Type B5F – Surface Mount						
1	n = 1	50MHz ~ 400MHz	10dB Maximum	TKS2514CT-ND	2.89	2.58	1.87	TKS2514TR-ND	1610.00	458DB-1012
				Type B7T – Leaded						
2	n = 6	6MHz ~ 600MHz	IN to OUT-1 0.8dB Maximum; IN to OUT-2 15dB ~ 17dB	TK2516-ND	5.55	4.35	2.59	—	—	456PS-1011

TDK

RF Balun Transformers HHM Series - Surface Mount

Dimensions in mm

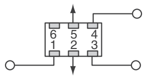

Note: These products are intended for wireless LAN (Local Area Network) applications.

Pin Configuration	
1	Unbalanced Port
2	GND or DC Feed + RF GND
3 ~ 4	Balanced Port
5	GND
6	NC

Fig. 1

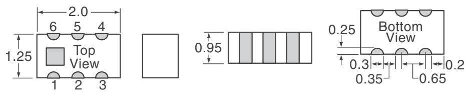

Fig. 2

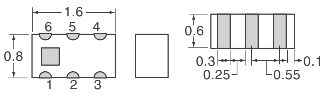

Fig.	Application	Operating Frequency (GHz)	Impedance In/Out (Ω)	Insertion Loss-Max. (dB)	Difference of Phase (Deg.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	TDK Part No.
1	Bluetooth and IEEE802.11b/g	2.4 ~ 2.5	50/50	1.2	180 ± 10	445-1233-1-ND	1.06	.80	.54	445-1233-2-ND	2,000	329.00/M	HHM1517
	Bluetooth and IEEE802.11b/g	2.4 ~ 2.5	50/100	1.0	180 ± 10	445-1234-1-ND	2.05	1.54	1.03	445-1234-2-ND	2,000	635.19/M	HHM1520
	Bluetooth and IEEE802.11b/g	2.4 ~ 2.5	50/200	1.0	180 ± 10	445-1229-1-ND	2.05	1.54	1.03	445-1229-2-ND	2,000	635.19/M	HHM1521
	Wideband-LAN	4.9 ~ 5.95	50/100	1.0	180 ± 10	445-1231-1-ND	2.05	1.54	1.03	445-1231-2-ND	2,000	635.19/M	HHM1570B1
	Wideband-LAN	5.15 ~ 5.875	50/100	1.0	180 ± 10	445-1230-1-ND	2.05	1.54	1.03	445-1230-2-ND	2,000	635.19/M	HHM1562B
	Bluetooth	2.3 ~ 2.5	50/75	1.0	180 ± 10	445-3249-1-ND	2.25	1.92	1.58	445-3249-2-ND	2,000	675.00/M	HHM1541E1
	UWB	3.1 ~ 4.9	50/100	1.0	180 ± 10	445-3250-1-ND	2.25	1.92	1.58	445-3250-2-ND	2,000	675.00/M	HHM1583B1
	UWB	3.1 ~ 4.9	50/100	1.0	180 ± 15	445-3386-1-ND†	2.25	1.92	1.58	445-3386-2-ND†	2,000	675.00/M	HHM1596A1
	UWB	3.0 ~ 8.0	50/100	1.5	180 ± 20	445-3387-1-ND	2.25	1.92	1.58	445-3387-2-ND	2,000	675.00/M	HHM1595A1
2	Bluetooth and IEEE802.11b/g	2.4 ~ 2.5	50/100	1.2	180 ± 10	445-1232-1-ND	2.05	1.54	1.03	445-1232-2-ND	2,000	635.19/M	HHM1711D1
	Bluetooth and IEEE802.11b/g	2.4 ~ 2.5	50/50	1.2	180 ± 10	445-3246-1-ND	2.25	1.92	1.58	445-3246-2-ND	4,000	653.00/M	HHM-1710D1
	Wideband-LAN	4.9 ~ 5.95	50/100	1.0	180 ± 10	445-3247-1-ND	2.25	1.92	1.58	445-3247-2-ND	4,000	653.00/M	HHM1732B1
	Wideband-LAN	4.9 ~ 5.95	50/200	1.2	180 ± 10	445-3248-1-ND	2.25	1.92	1.58	445-3248-2-ND	4,000	653.00/M	HHM1752A2

† Pin Configuration — Pin1 NC, Pin 6 Unbalanced Port

TDK

Multilayer RF Filters DEA Series - Surface Mount

Dimensions in mm

Fig. 1

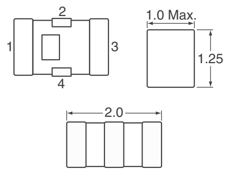

Pin Configuration	
1	GND
2	IN (OUT)
3	GND
4	OUT (IN)

Fig. 2

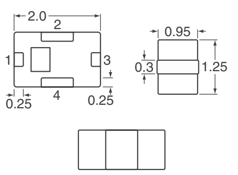

Pin Configuration	
1	IN
2	GND
3	OUT
4	GND

Fig. 3

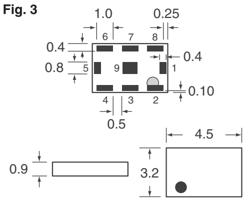

Pin Configuration	
1	I/O
2 ~ 4	GND
5	I/O
6 ~ 9	GND

Fig. 4

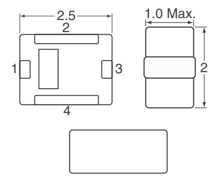

Pin Configuration	
1	IN
2	GND
3	OUT
4	GND

Fig. 5

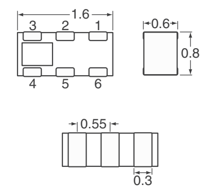

Pin Configuration			
1	GND	4	GND
2	IN	5	OUT
3	GND	6	GND

Fig. 6

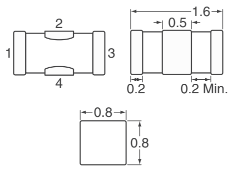

Pin Configuration	
1	IN
2	GND
3	OUT
4	GND

Fig. 7

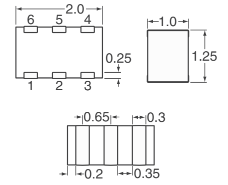

Pin Configuration			
1	GND	4	GND
2	IN	5	OUT
3	GND	6	GND

Fig. 8

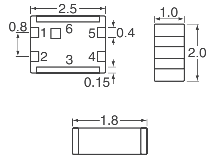

Pin Configuration	
1	Unbalanced
2	DC Feed or RF GND
3, 6	GND
4 ~ 5	Balanced

Fig. 9

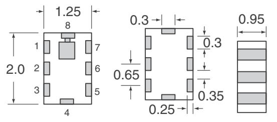

Pin Configuration	
1	Unbalanced Port
2	DC Feed + RF GND or GND
3	NC
4, 6, 8	GND
5, 7	Balanced Port

Fig. 10

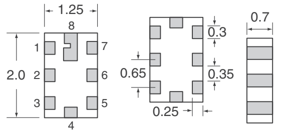

Pin Configuration	
1	Unbalanced Port
2	DC Feed
3	NC
4, 6, 8	GND
5, 7	Balanced Port

Fig.	Center Frequency (GHz)	Filter Type	Application	Maximum Insertion Loss (dB)	Minimum Return Loss (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		TDK Part No.
							1	10	100		Qty.	Pricing	
1	2.450	Band Pass	Wideband-LAN and Bluetooth	2.3	9.0	445-3251-1-ND	2.58	2.20	1.81	445-3251-2-ND	2,000	775.00/M	DEA202450BT-1195A1
2	5.425	Band Pass	Wideband-LAN	2.0	9.0	445-3252-1-ND	2.58	2.20	1.81	445-3252-2-ND	2,000	775.00/M	DEA205425BT-2028A4
3	4.000	Band Pass	UWB	1.9	10	445-3388-1-ND	4.50	3.83	3.15	445-3388-2-ND	2,000	1350.00/M	DEA453960BT-3002B1
	4.000	Band Pass	UWB	1.9	10	445-3389-1-ND	4.50	3.83	3.15	445-3389-2-ND	2,000	1350.00/M	DEA453960BT-3007B1
4	2.440	Band Pass	Wideband-LAN and Bluetooth	3.0	10	445-3253-1-ND	2.75	2.34	1.93	445-3253-2-ND	2,000	825.00/M	DEA252450BT-2024C2
	2.450	Band Pass	Wideband-LAN and Bluetooth	1.2	10	445-3254-1-ND	2.75	2.34	1.93	445-3254-2-ND	2,000	825.00/M	DEA252450BT-2027A1
	2.400	Band Pass	Wideband-LAN and Bluetooth	1.4	10	445-3255-1-ND	2.75	2.34	1.93	445-3255-2-ND	2,000	825.00/M	DEA252400BT-2030A1
5	2.450	Low Pass	Wideband-LAN and Bluetooth	.42	14	445-3257-1-ND	2.50	2.13	1.75	445-3257-2-ND	4,000	725.00/M	DEA162500LT-1212A1
	2.450	Low Pass	Wideband-LAN and Bluetooth	.48	14	445-3258-1-ND	2.50	2.13	1.75	445-3258-2-ND	4,000	725.00/M	DEA162500LT-1217A1
6	5.425	Low Pass	Wideband-LAN	.70	12	445-3259-1-ND	2.50	2.13	1.75	445-3259-2-ND	4,000	725.00/M	DEA165850LT-1197B2
7	2.442	High Pass	Wideband-LAN and Bluetooth	.80	—	445-3260-1-ND	2.58	2.20	1.81	445-3260-2-ND	2,000	775.00/M	DEA202484HT-8002A1
8	2.450	Band Pass	Wideband-LAN and Bluetooth	3.0	—	445-3256-1-ND	3.83	3.26	2.69	445-3256-2-ND	2,000	1150.00/M	DEA252450BT-7022B1
	2.450	Band Pass	Bluetooth	3.6	8	445-3381-1-ND	3.29	2.80	2.30	445-3381-2-ND	2,000	986.00/M	DEA252450BT-7035B2
	2.450	Band Pass	Bluetooth	3.0	8	445-3382-1-ND	3.29	2.80	2.30	445-3382-2-ND	2,000	986.00/M	DEA252450BT-7046A1
9	2.450	Band Pass	Wideband-LAN and Bluetooth	3.5	9	445-3383-1-ND	2.93	2.49	2.05	445-3383-2-ND	2,000	879.00/M	DEA202450BT-7077A1
10	2.440	Band Pass	Bluetooth	5.0	10	445-3384-1-ND	2.93	2.49	2.05	445-3384-2-ND	2,000	879.00/M	DEA202450BT-7041E1

Multilayer Diplexers DPX Series - Surface Mount

Dimensions in mm

Fig. 1

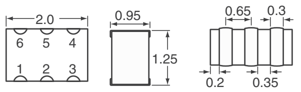

Terminal Functions	
1	GND
2	ANT (Common)
3	GND
4	HIGH (5.0 GHz)
5	GND
6	LOW (2.4 GHz)

Fig. 2

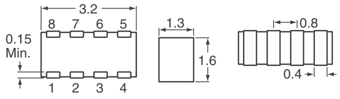

A

Terminal Functions	
1	LOW (2.4 GHz)
2	GND
3	GND
4	HIGH (5.0 GHz)
5	GND
6	GND
7	ANT (Common)
8	GND

B

Terminal Functions	
1	HIGH (5.0 GHz)
2	GND
3	GND
4	LOW (2.4 GHz)
5	GND
6	ANT (Common
7	GND
8	GND

Fig.	High Frequency (GHz)	Low Frequency (GHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,000	TDK Part No.
				1	10	100			
1	4.0	2.4	445-3390-1-ND	4.00	3.40	2.80	445-3390-2-ND	1200.00/M	DPX204752DT-4028A1
1	5.0	2.4	445-3261-1-ND	2.75	2.34	1.93	445-3261-2-ND	825.00/M	DPX205950DT-9008A1
2A	5.0	2.4	445-3262-1-ND	3.83	3.26	2.69	445-3262-2-ND	1150.00/M	DPX315950DT-5006C1
2B	5.0	2.4	445-3263-1-ND	3.83	3.26	2.69	445-3263-2-ND	1150.00/M	DPX315950DT-5005B2

Panasonic® Hybrid Passive RF/Microwave Devices

Note: All drawings are top view.

These components are suited for Mobile Phones (Handsets/Base Stations), Navigation Devices (GPS), Pagers, Mobile Computing (PCs and PDAs), Mobile Data Terminals, Wireless Microphones, Cordless Phones and Wireless Local Area Network (WLAN) applications.

SPECIFICATIONS: • Operating Temperature: -30°C ~ 85°C **• Soldering:** 230°C for 5 seconds

BALUN: Ultra small, thin, high precision, with ultra-fine geometry baluns to meet your single-ended to double-ended to electronic circuitry interface requirements. **Application:** Single/Double Ended Mixer, Differential Amp, Matching.

DIRECTIONAL COUPLER: Miniaturized, high coupling efficiency, low-cost, with ultra-fine geometry directional couplers to meet your most demanding coupling needs. **Application:** To control transmitted power.

DIRECTIONAL COUPLER with LC FILTER: A directional coupler having the above same features and benefits, but also incorporating an LC Filter. **Application:** To control transmitted power while suppressing spurious noise.

POWER DIVIDER: Miniaturized, high efficiency/low-loss, with ultra-fine geometry, three port power divider to meet your circuitry power handling requirements. **Application:** To divide internal signals (ex. VCO).

Fig. 1

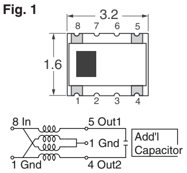

Fig. 2

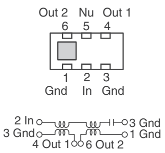

Fig. 3

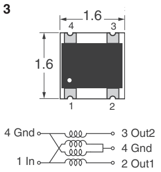

Fig. 4

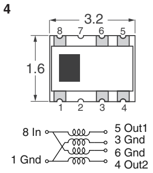

Fig. 5

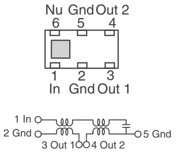

Fig. 6

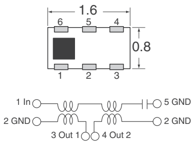

Fig. 7

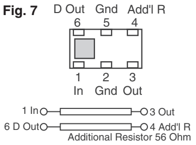

Fig. 8

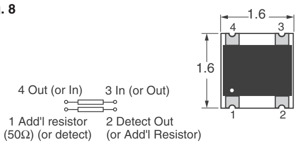
1.6
4 3
1.6
1 2
4 Out (or In)
3 In (or Out)
1 Add'l resistor (50Ω) (or detect)
2 Detect Out (or Add'l Resistor)

Fig. 9

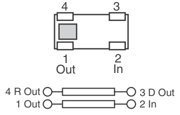

Fig. 10

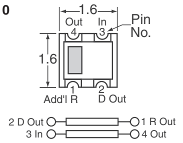

Fig. 11

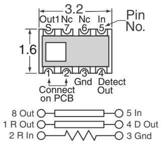

Fig. 12

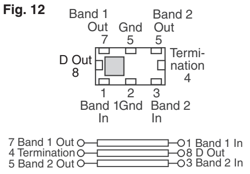

Fig. 13

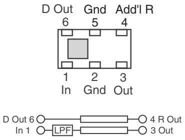

Fig. 14

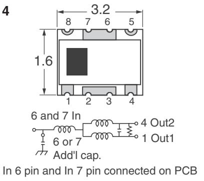

Fig. 15

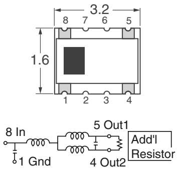

Fig. 16

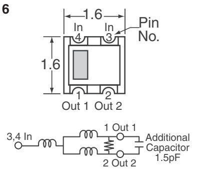

Fig.	Description	Operating Frequency (Mhz)	Impedance In/Out (Ω)	Insertion Loss (Maximum)	Difference of Phase (Degree)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Panasonic Part No.
1	Balun	380 ~ 430	50/200	1dB	180 ±15	3.2 x 1.6	P10702CT-ND	1.32	1.23	1.01	500	393.40	EHF-FD1617
2	Balun	1700 ~ 1900	50/50	.8dB	180 ±10	3.2 x 1.6	P12025CT-ND	1.27	1.18	.97	—	—	EHF-1BD1800
		1700 ~ 1900	50/100	.8dB	180 ±10	3.2 x 1.6	P12026CT-ND	1.27	1.18	.97	—	—	EHF-1BE1800
		1700 ~ 1900	50/200	.8dB	180 ±10	3.2 x 1.6	P12028CT-ND	1.27	1.18	.97	—	—	EHF-1BG1800
3	Balun	824 ~ 894	50/200	1dB	180 ±15	1.6 x 1.6	P10703CT-ND	1.32	1.23	1.01	4,000	755.33/M	EHF-FD1622
		880 ~ 960	50/200	2dB	180 ±15	1.6 x 1.6	P10706CT-ND	1.32	1.23	1.01	4,000	755.33/M	EHF-FD1620
4	Balun	1700 ~ 1900	50/200	1dB	180 ±15	3.2 x 1.6	P10711-ND†	1.19	1.11	.92	—	—	EHF-FD1626
5	Balun	1700 ~ 1900	50/50	1.0dB	180 ±15	2.0 x 1.25	P12029CT-ND	1.27	1.18	.97	—	—	EHF-2BD1800
		1920 ~ 2170	50/50	1.0dB	180 ±15	2.0 x 1.25	P12030CT-ND	1.27	1.18	.97	—	—	EHF-2BD2060
		1700 ~ 1900	50/100	1.0dB	180 ±15	2.0 x 1.25	P12033CT-ND	1.27	1.18	.97	—	—	EHF-2BE1800
		1920 ~ 2170	50/100	1.0dB	180 ±15	2.0 x 1.25	P12034CT-ND	1.27	1.18	.97	—	—	EHF-2BE2060
		2400 ~ 2500	50/100	1.0dB	180 ±15	2.0 x 1.25	P12035CT-ND◆	1.27	1.18	.97	—	—	EHF-2BE2450
		1700 ~ 1900	50/200	1.0dB	180 ±15	2.0 x 1.25	P12037CT-ND	1.27	1.18	.97	—	—	EHF-2BG1800
		1920 ~ 2170	50/200	1.0dB	180 ±15	2.0 x 1.25	P12038CT-ND	1.27	1.18	.97	—	—	EHF-2BG2060
		2400 ~ 2500	50/200	1.0dB	180 ±15	2.0 x 1.25	P12039CT-ND	1.27	1.18	.97	—	—	EHF-2BG2450
		3400 ~ 4000	50/100	1.0dB	180 ±20	2.0 x 1.25	P12041CT-ND	1.27	1.18	.97	—	—	EHF-FD1755T
6	Balun	5150 ~ 5350	50/100	1.2dB	180 ±15	1.6 x 0.8	P12428CT-ND	3.36	3.13	2.57	—	—	EHF-4BE5250

Fig.	Description	Operating Frequency (Mhz)	Coupling Factor (dB)	Insertion Loss (Maximum)	Isolation (Minimum)	Voltage Standing Wave Ratio (Maximum)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Panasonic Part No.
7	Direc. Coupler	1710 ~ 1785	14 ±1	.35dB	22dB	1.3	1.6 x .8	P12043CT-ND	1.07	1.00	.82	—	—	EHF-4CM1747
8	Directional Coupler	800 ~ 1000	17 ±2	.30dB	24dB	1.3	1.6 x 1.6	P10684CT-ND	1.13	1.06	.87	4,000	647.81/M	EHF-FD1540
		1850 ~ 1950	14 ±2	.40dB	19dB	1.3	1.6 x 1.6	P10691CT-ND	1.13	1.06	.87	4,000	647.81/M	EHF-FD1541
9	Directional Coupler	1710 ~ 1910	17 ±1.5	.25dB	27dB	1.3	1.6 x .8	P12044CT-ND	1.07	1.00	.82	—	—	EHF-4CQ1810
		820 ~ 850	20 ±1	.25dB	30dB	1.3	1.6 x .8	P12045CT-ND	1.07	1.00	.82	—	—	EHF-4CT0835
10	Directional Coupler	1850 ~ 1950	20 ±1	.3dB	26dB	1.3	1.6 x 1.6	P12046CT-ND	1.07	1.00	.82	—	—	EHF-FD1542
		1850 ~ 1950	17 ±1	.3dB	23dB	1.3	1.6 x 1.6	P12047CT-ND	1.07	1.00	.82	500	317.80	EHF-FD1548
11	Direc. Coupler	800 ~ 1000	14 ±2	.4dB	20dB	1.3	3.2 x 1.6	P12048CT-ND	1.07	1.00	.82	—	—	EHF-FD1556
12	Dual Directional	880 ~ 915 1710 ~ 1785	19 ±2 14 ±1.5	.35dB .45dB	24dB 17dB	1.5 1.5	2.0 x 1.25	P12049CT-ND	1.07	1.00	.82	500	317.80	EHF-FD1812D
		880 ~ 915 1710 ~ 1785	14 ±1 14 ±1	.45dB .45dB	18dB 18dB	1.5 1.5	2.0 x 1.25	P12050CT-ND	1.07	1.00	.82	—	—	EHF-FD1824

Fig.	Description	Operating Frequency (Mhz)	Coupling Factor (dB)	Insertion Loss (Maximum)	2FO Attenuation (Minimum)	3FO Attenuation (Minimum)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Panasonic Part No.
13	Direc. Coupler with Filter	880 ~ 915	20 ±1	.45d	22dB	17dB	2.0 x 1.25	P12051CT-ND	1.27	1.18	.97	—	—	EHF-FD1728
		1710 ~ 1785	20 ±1	.45d	22dB	17dB	2.0 x 1.25	P12052CT-ND	1.27	1.18	.97	500	377.30	EHF-FD1729

Fig.	Description	Operating Frequency (Mhz)	Insertion Loss (Maximum)	Isolation (Minimum)	Voltage Standing Wave Ratio (Maximum)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Panasonic Part No.
14	Power Divider	720 ~ 760	4.0dB	18dB	1.8	3.2 x 1.6	P10715-ND†	1.42	1.32	1.08	—	—	EHF-FD1502
15	Power Divider	981 ~ 1008	4.0dB	18dB	2.1	3.2 x 1.6	P10716-ND†	1.42	1.32	1.08	—	—	EHF-FD1508
		1546 ~ 1630	4.0dB	18dB	1.9	3.2 x 1.6	P10717CT-ND	1.35	1.26	1.04	4,000	772.80/M	EHF-FD1503
		1607 ~ 1685	4.0dB	18dB	1.6	3.2 x 1.6	P10718-ND†	1.35	1.26	1.04	—	—	EHF-FD1506
		1880 ~ 1920	4.0dB	18dB	1.6	3.2 x 1.6	P10720-ND†	1.35	1.26	1.04	—	—	EHF-FD1507
		2043 ~ 2104	4.0dB	18dB	1.6	3.2 x 1.6	P10721-ND†	1.35	1.26	1.04	—	—	EHF-FD1509
16	Power Divider	945 ~ 979	4dB	18dB	2.1	1.6 x 1.6	P12054CT-ND	1.07	1.00	.82	—	—	EHF-FD1779

◆ ***RoHS Compliant*** † Bulk Package ‡ For Tape and Reel part number, change CT-ND to TR-ND.

TOKO Helical Filters

Fig. 1 — 5CHW Type – Surface Mount

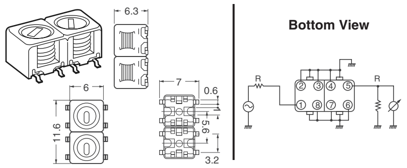

Fig. 2 — 5CHT Type – Surface Mount

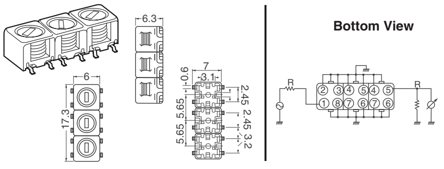

Fig. 3 — 5CHLW Type – Surface Mount

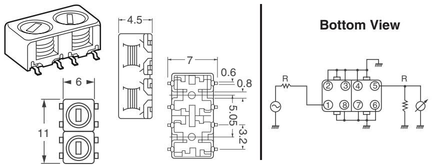

Fig. 4 — 5HW Type

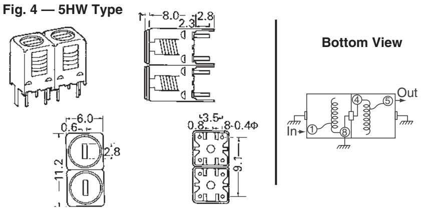

Fig. 5— 5HT Type

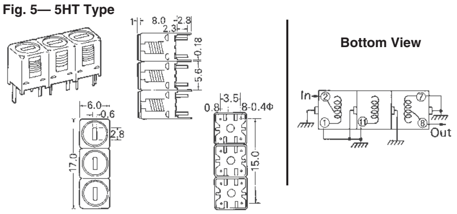

Fig. 6 — 7HW Type

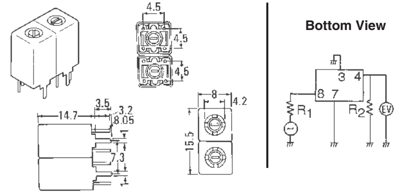

Fig. 7 — 7HT Type

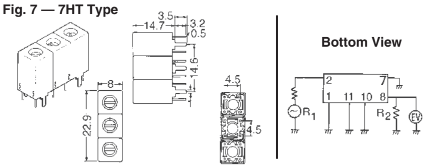

Fig. 8 — CBW Type

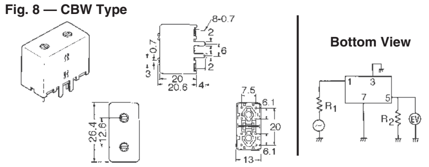

Fig. 9 — CBT Type

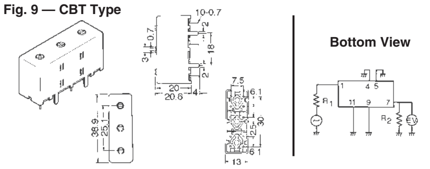

Test/Bw Freq./Min. (MHz)/(MHz)	Selectivity (Min.) dB (MHz) dB (MHz)	Ripple/ Loss dB/dB	Digi-Key Part No.	Cut Tape Pricing 1	10	Tape and Reel† Pricing	Toko Part No.
Fig. 1 — 5CHW Type – Surface Mount							
427/10	20 (+50) 14 (–50)	0.5/3.0	TKS5441CT-ND	19.90	159.20	8932.50/750	492S-1053A
435/10	20 (+50) 14 (–50)	0.5/3.5	TKS5442CT-ND	19.90	159.20	—	492S-1055A
456/10	16 (+50) 12 (–50)	0.5/3.5	TKS5444CT-ND	19.90	159.20	8932.50/750	492S-1059A
Fig. 2 — 5CHT Type – Surface Mount							
425/10	30 (+50) 30 (–50)	0.5/4.5	TKS5450CT-ND	27.25	218.00	10218.75/750	493S-1068A
430/10	30 (+50) 30 (–50)	0.5/4.5	TKS5451CT-ND	27.25	218.00	10218.75/750	493S-1069A
440/10	27 (+50) 27 (–50)	0.5/4.5	TKS5452CT-ND	27.25	218.00	—	493S-1071A
452/10	27 (+50) 27 (–50)	0.5/4.5	TKS5453CT-ND	27.25	218.00	10218.75/750	493S-1073A
Fig. 3 — 5CHLW Type – Surface Mount							
836/23	14 (+100) 22 (–100)	1.5/4.0	TKS5432CT-ND	13.17	104.23	—	477MS-1093A
881/23	12 (+100) 19 (–100)	1.0/3.5	TKS5435CT-ND	13.17	104.23	—	477MS-1094A
915/25	18 (+100) 25 (–100)	1.0/2.5	TKS5437CT-ND	20.90	167.20	5800.00/1000	477MS-1035A
933/25	18 (+100) 25 (–100)	1.0/2.5	TKS5438CT-ND	20.90	167.20	5800.00/1000	477MS-1036A

† For Tape and Reel part number, change CT-ND to TR-ND.

Test / Bw Freq. / Min. (MHz) / (MHz)	Selectivity (Min.) dB (MHz) dB (MHz)	Ripple/ Loss dB / dB	Digi-Key Part No.	Pricing 1	10	50	Toko Part No.
Fig. 4 — 5HW Type							
365 / 6	20 (–50) 25 (+50)	1.0 / 4.5	TK5414-ND	26.05	208.40	989.90	5HW-35045A-365
475 / 8	18 (–50) 22 (+50)	1.0 / 4.5	TK5415-ND	26.05	208.40	989.90	5HW-44545A-475
820 / 16	22 (–100) 24 (+100)	1.0 / 3.5	TK5419-ND	26.05	208.40	989.90	5HW-78045A-820
1010 / 16	14 (–100) 18 (+100)	1.0 / 3.5	TK5421-ND	26.05	208.40	989.90	5HW-100090A-1010
1305 / 25	18 (–100) 20 (+100)	1.0 / 3.5	TK5423-ND	26.05	208.40	989.90	5HW-125055F-1305
Fig. 5 — 5HT Type							
360 / 16	33 (–50) 25 (+50)	1.0 / 4.0	TK5401-ND	23.70	189.60	900.60	5HT-36020AS-360
440 / 14	28 (–50) 25 (+50)	1.0 / 4.0	TK5403-ND	23.70	189.60	900.60	5HT-44020AS-440
480 / 14	26 (–50) 22 (+50)	1.0 / 4.0	TK5404-ND	23.70	189.60	900.60	5HT-48030AS-480
515 / 16	25 (–50) 20 (+50)	1.0 / 4.0	TK5405-ND	23.70	189.60	900.60	5HT-51535AS-515
655 / 12	30 (–50) 26 (+50)	1.0 / 4.0	TK5407-ND	23.70	189.60	900.60	5HT-65550F-655
735 / 15	28 (–50) 24 (+50)	1.0 / 4.0	TK5408-ND	23.70	189.60	900.60	5HT-73565F-735
830 / 15	26 (–50) 22 (+50)	1.0 / 4.0	TK5409-ND	23.70	189.60	900.60	5HT-83050F-830
Fig. 6 — 7HW Type							
435 / 10.5	17 (–5) 14 (+15)	1.5 / 3.0	TK3302-ND	20.45	163.60	777.10	252MXPR-2537A
453 / 11.5	16 (–3) 13 (+7)	1.5 / 2.5	TK3303-ND	20.45	163.60	777.10	252MXPR-2767A
480 / 12.5	14 (–10) 11 (+10)	1.5 / 2.5	TK3305-ND	19.43	174.83	777.00	252MXPR-2765A
550 / 7	23 (–10) 20 (+15)	1.5 / 3.5	TK3307-ND	10.23	92.03	409.00	252HXPK-2736F
600 / 8	23 (–5) 21 (+15)	1.5 / 3.5	TK3308-ND	20.45	163.60	777.10	252HXPK-2733F
830 / 13.5	20 (–35) 18 (+10)	1.5 / 3.0	TK3311-ND	20.45	163.60	777.10	252HXPK-2774F
Fig. 7 — 7HT Type							
880 / 20	16 (–40) 10 (+40)	2.0 / 3.0	TK3404-ND	28.65	229.20	1088.70	302HXPK-1339D1
1015 / 20	20 (–40) 16 (+40)	2.0 / 4.0	TK3406-ND	28.65	229.20	1088.70	302HXPK-1271B
813 / 17	23 (–50) 16 (+50)	0.5 / 3.0	TK3409-ND	28.65	229.20	1088.70	302HXPK-1341D1
456 / 4.5	29 (–20) 22 (+20)	0.5 / 5.0	TK3410-ND	28.65	229.20	1088.70	302HXPK-1035D
Fig. 8 — CBW Type							
220 / 2.0	20 (–15) 18 (+15)	0.5 / 3.0	TK3601-ND	32.25	258.00	1225.50	271MT-1166A
167 / 2.4	19 (–10) 17 (+10)	1.0 / 2.5	TK3605-ND	32.25	258.00	1225.50	271MT-1136A
187 / 2.8	15 (–10) 14 (+10)	1.0 / 2.5	TK3603-ND	32.25	258.00	1225.50	271MT-1143A
216 / 3.0	15 (–10) 14 (+10)	1.0 / 3.0	TK3602-ND	32.25	258.00	1225.50	271MT-1145A
Fig. 9 — CBT Type							
145 / 2.8	25 (–6) 25 (+6)	0.5 / 8.0	TK3506-ND	48.30	386.40	1835.40	272MT-1006A
145 / 1.2	30 (–6) 30 (+6)	0.5 / 8.0	TK3504-ND	48.30	386.40	1835.40	272MT-1008A
223 / 2.6	28 (–10) 40 (+20)	0.5 / 6.0	TK3501-ND	48.30	386.40	1835.40	272MT-1080A

EPCOS

NEW! Ferrite Toroid Cores for Chokes and Transformers

RoHS COMPLIANT

Epcos Ferrite Toroid Cores are used primarily as EMC chokes for suppressing RF interference in the MHz region and in signal.

Dimensions – mm OD	ID	H	Relative Initial Permeability (µi)	A_L Value (nH)	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
6.3	3.8	2.5	10,000	2,530	495-3873-ND	.38	2.81	21.88	B64290P0037X038
6.3	3.8	2.5	4,300	1,090	495-3874-ND	.35	2.59	20.13	B64290P0037X830
10.0	6.0	4.0	10,000	4,090	495-3847-ND	.32	2.41	18.73	B64290L0038X038
10.0	6.0	4.0	4,300	1,760	495-3848-ND	.23	1.73	13.48	B64290L0038X830
10.0	6.0	4.0	2,200	900	495-3849-ND	.22	1.62	12.60	B64290L0038X087
12.5	7.5	5.0	10,000	5,110	495-3851-ND	.45	3.35	26.08	B64290L0044X038
12.5	7.5	5.0	4,300	2,200	495-3852-ND	.30	2.23	17.33	B64290L0044X830
12.7	7.9	6.35	2,200	1,330	495-3870-ND	.44	3.33	25.90	B64290L0742X087
16.0	9.6	6.3	6,000	3,870	495-3853-ND	.50	3.71	28.88	B64290L0045X035
16.0	9.6	6.3	10,000	6,440	495-3854-ND	.54	4.07	31.68	B64290L0045X038
16.0	9.6	6.3	4,300	2,770	495-3855-ND	.46	3.47	26.95	B64290L0045X830
16.0	9.6	6.3	2,200	1,420	495-3856-ND	.66	4.95	38.50	B64290L0045X087
20.0	10.0	7.0	5,100	5,000	495-3863-ND	.80	6.03	46.90	B64290L0632X035
20.0	10.0	7.0	4,300	4,160	495-3864-ND	.60	4.52	35.18	B64290L0632X830
22.1	13.7	6.35	2,200	1,340	495-3865-ND	.67	5.00	38.85	B64290L0638X087
25.3	14.8	10.0	6,500	6,970	495-3859-ND	.83	6.26	48.65	B64290L0618X037
25.3	14.8	10.0	5,000	5,400	495-3860-ND	.89	6.68	51.98	B64290L0618X035
25.3	14.8	10.0	10,000	10,700	495-3861-ND	1.21	9.07	70.53	B64290L0618X038
25.3	14.8	10.0	4,300	4,620	495-3862-ND	.78	5.83	45.33	B64290L0618X830
34.0	20.5	12.5	4,300	5,460	495-3857-ND	3.71	27.83	216.48	B64290L0048X830
34.0	20.5	10.0	4,300	4,360	495-3858-ND	2.39	17.91	139.30	B64290L0058X830
36.0	23.0	15.0	10,000	13,500	495-3868-ND	3.90	29.23	227.33	B64290L0674X038
36.0	23.0	15.0	4,300	5,750	495-3869-ND	3.32	24.91	193.73	B64290L0674X830
38.1	19.05	12.7	10,000	17,600	495-3867-ND	3.28	24.62	191.45	B64290L0668X038
40.0	24.0	16.0	4,300	7,000	495-3866-ND	3.47	26.03	202.48	B64290L0659X830
41.8	26.2	12.5	4,300	5,000	495-3846-ND	3.78	28.37	220.68	B64290L0022X830
50.0	30.0	20.0	4,300	8,700	495-3871-ND	7.45	55.87	434.53	B64290L0082X830
50.0	30.0	20.0	2,200	4,460	495-3872-ND	8.25	61.88	481.25	B64290L0082X087
58.3	40.8	17.6	4,300	5,400	495-3850-ND	11.24	84.29	655.55	B64290L0040X830
102	65.8	15.0	4,200	5,500	495-3845-ND	51.53	386.46	3005.80	B64290L0084X830

Midcom WÜRTH ELEKTRONIK

WE-FI Series — Leaded Toroidal Line Chokes

Features:
- Offers perfect filtering for interference frequencies up to 10MHz
- High storage capacity
- Iron powder cores with low losses
- Low magnetically leakage field
- ±20% inductance tolerance

Applications:
- Switching regulator up to 100kHz switching frequency
- Perfect for filtering of symmetric interferences

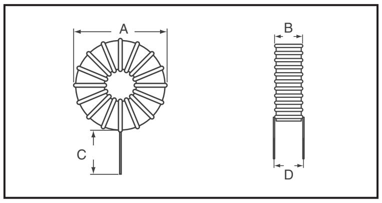

Inductance (µH)	DCR Max. (Ω)	Rated Current (A)	Dimensions — mm				Digi-Key Part No.	Price Each			Wurth Part No.
			A	B	C	D		1	25	100	
10.0	0.020	2.00	10.5	5.5	15.0	5.0	732-1416-ND	2.52	2.10	1.86	7447054
12.0	0.030	1.00	10.0	5.0	15.0	4.0	732-1417-ND	2.52	2.10	1.86	7447053
22.0	0.015	5.00	19.0	10.5	15.0	8.0	732-1418-ND	2.86	2.38	2.11	7447017
29.0	0.015	5.00	18.5	9.7	15.0	8.0	732-1419-ND	2.86	2.38	2.11	7447016
35.0	0.025	3.00	18.5	8.5	15.0	8.0	732-1420-ND	2.86	2.38	2.11	7447015
43.0	0.060	1.00	13.0	6.5	15.0	4.5	732-1421-ND	2.56	2.14	1.90	7447034
68.0	0.100	0.80	12.0	5.5	15.0	4.5	732-1422-ND	2.56	2.14	1.90	7447041
68.0	0.055	2.00	14.0	7.0	15.0	6.0	732-1423-ND	2.56	2.14	1.90	7447033
100.0	0.070	2.00	15.5	8.0	15.0	7.0	732-1424-ND	2.56	2.14	1.90	7447021
100.0	0.035	5.00	25.0	11.0	15.0	8.0	732-1425-ND	3.11	2.59	2.30	7447070
150.0	0.130	1.00	16.0	8.0	20.0	7.0	732-1426-ND	2.56	2.14	1.90	7447028
150.0	0.045	5.00	27.5	13.0	15.0	11.5	732-1427-ND	3.70	3.08	2.73	7447076
220.0	0.220	0.80	14.0	7.5	15.0	6.0	732-1428-ND	2.56	2.14	1.90	7447036
220.0	0.160	1.00	15.8	7.5	15.0	7.0	732-1429-ND	2.56	2.14	1.90	7447020
300.0	0.130	2.00	21.0	11.0	25.0	9.0	732-1430-ND	3.11	2.59	2.30	7447060
360.0	0.400	0.40	13.5	6.0	15.0	5.0	732-1431-ND	2.52	2.10	1.86	7447037
470.0	0.225	1.00	18.5	9.5	15.0	9.0	732-1432-ND	2.56	2.14	1.90	7447010
470.0	0.110	3.00	25.0	12.0	25.0	11.0	732-1433-ND	3.11	2.59	2.30	7447071
860.0	0.150	3.00	28.5	15.0	25.0	14.0	732-1434-ND	3.70	3.08	2.73	7447075

WE-CMB Series — Current Compensated Chokes

Features:
- Broadband screening because of anticapacitance coiling technique
- Very compact design
- Highest possible current with small sizes

Applications:
- Power electronics
- Power line input and output filter
- Filtering of devices without a stable ground connection
- Radio interference suppression in motors

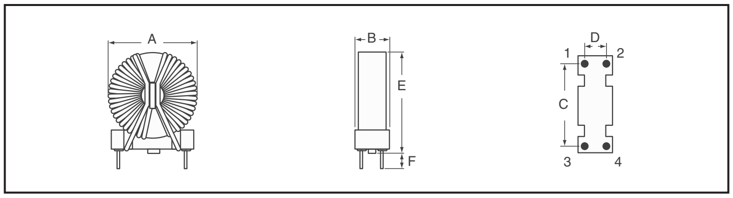

Inductance (mH)	DCR Max. (mΩ)	Rated Current (A)	Dimensions — mm						Digi-Key Part No.	Price Each			Wurth Part No.
			A	B	C	D	E	F		1	25	100	
									XS-Type				
1.0	45	2.0	15.0	7.5	10.0	4.5	18.0	2.5	732-1435-ND	4.20	3.50	3.10	744821201
4.0	140	1.5							732-1436-ND	4.20	3.50	3.10	744821240
10.0	350	0.7							732-1437-ND	4.20	3.50	3.10	744821110
20.0	1000	0.5							732-1438-ND	4.20	3.50	3.10	744821120
14	15	4.0	16.0	7.5	10.0	4.5	17.5	—	732-1459-ND	4.20	3.50	3.10	744841414
30	26	3.0							732-1460-ND	4.20	3.50	3.10	744841330
47	40	2.0							732-1461-ND	4.20	3.50	3.10	744841247
100	80	1.5							732-1462-ND	4.20	3.50	3.10	744841210
									S-Type				
1.0	35	3.0	17.5	13.0	7.7	5.0	22.0	3.0	732-1439-ND	5.04	4.20	3.72	744822301
2.2	70	2.0							732-1440-ND	5.04	4.20	3.72	744822222
3.3	120	1.5							732-1441-ND	5.04	4.20	3.72	744822233
10.0	360	1.0							732-1442-ND	5.04	4.20	3.72	744822110
20.0	540	0.5							732-1443-ND	5.04	4.20	3.72	744822120
									M-Type				
1.0	10	6.0	23.0	17.0	7.5	10.7	28.0	3.0	732-1444-ND	6.30	5.25	4.65	744823601
2.2	30	4.0							732-1445-ND	6.30	5.25	4.65	744823422
3.3	60	2.5							732-1446-ND	6.30	5.25	4.65	744823333
10.0	125	2.0							732-1447-ND	6.30	5.25	4.65	744823210
20.0	270	1.5							732-1448-ND	6.30	5.25	4.65	744823220
									L-Type				
1.0	7	10.0	27.5	18.5	10.0	12.0	33.0	5.0	732-1449-ND	7.14	5.95	5.27	744824101
2.2	20	6.0							732-1450-ND	7.14	5.95	5.27	744824622
3.3	35	4.0							732-1451-ND	7.14	5.95	5.27	744824433
10.0	105	3.0							732-1452-ND	7.14	5.95	5.27	744824310
20.0	220	2.0							732-1453-ND	7.14	5.95	5.27	744824220
									XL-Type				
1.0	9	12.0	30.0	21.0	25.0	15.0	35.0	5.0	732-1454-ND	11.76	9.80	8.68	7448251201
2.2	14	8.0							732-1455-ND	11.76	9.80	8.68	7448258022
3.3	25	6.0							732-1463-ND	11.76	9.80	8.68	7448256033
10.0	55	5.0							732-1457-ND	11.76	9.80	8.68	744825510
20.0	160	3.0							732-1458-ND	11.76	9.80	8.68	744825320

WE-CNSW Series — SMD Common Mode Noise Suppressor

Features:
- High common mode suppressor at high frequency
- Small influence for high speed signals through winding symmetry
- Rated voltage: 50V

Applications:
- USB 2.0
- Firewire/IEEE 1394
- LVDS
- High Speed Data Lines
- Common Mode Filters

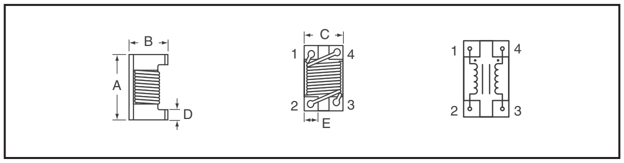

Impedance (Ω) @ 100MHz	DCR Max. (Ω)	Rated Current (A)	Dimensions — mm					Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 2,000	Wurth Part No.
			A	B	C	D	E		1	25	100			
								0805 Type						
67	0.25	0.4	2.0	1.2	1.2	0.45	0.4	732-1464-1-ND	1.05	.88	.75	732-1464-2-ND	350.00/M	744231061
120	0.30	0.37						732-1465-1-ND	1.05	.88	.75	732-1465-2-ND	350.00/M	744231121
180	0.35	0.33						732-1466-1-ND	1.05	.88	.75	732-1466-2-ND	350.00/M	744231181
260	0.40	0.3						732-1467-1-ND	1.05	.88	.75	732-1467-2-ND	350.00/M	744231261
370	0.45	0.28						732-1468-1-ND	1.05	.88	.75	732-1468-2-ND	350.00/M	744231371
								1206 Bauform Type						
90	0.30	0.37	3.2	1.9	1.6	0.6	0.6	732-1469-1-ND	1.62	1.35	1.15	732-1469-2-ND	540.00/M	744232090
160	0.40	0.34						732-1470-1-ND	1.62	1.35	1.15	732-1470-2-ND	540.00/M	744232161
260	0.50	0.31						732-1471-1-ND	1.62	1.35	1.15	732-1471-2-ND	540.00/M	744232261
600	0.80	0.26						732-1472-1-ND	1.62	1.35	1.15	732-1472-2-ND	540.00/M	744232601
1000	1.00	0.23						732-1473-1-ND	1.62	1.35	1.15	732-1473-2-ND	540.00/M	744232102
2200	1.20	0.2						732-1474-1-ND	1.62	1.35	1.15	732-1474-2-ND	540.00/M	744232222

WE-SL2 Series — SMD Common Mode Noise Suppressor

Features:
- For distortion-free removal of noise from transmitted electrical signals
- Double current-compensated choke
- Offering a wide bandwidth with the core materials NiZn / MnZn

Specifications:
- Nominal Voltage: 80VDC (42VAC)
- UL compliant housing

Applications:
- Current compensated choke for data and signal lines
- Power supply systems
- Filter for measurement signals

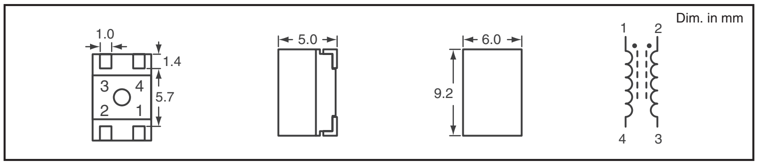

Inductance (µH)	Maximum Impedance (Ω)	Maximum DC Resistance (Ω)	Rated DC Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Wurth Part No.
2 x 10	920	0.08	1.6	732-1475-1-ND	3.24	2.70	2.30	732-1475-2-ND	1080.00	744226
2 x 10	920	0.08	1.6	732-1476-1-ND†	3.24	2.70	2.30	732-1476-2-ND†	1080.00	744226S
2 x 25	2800	0.12	1.0	732-1477-1-ND	3.24	2.70	2.30	732-1477-2-ND	1080.00	744228
2 x 25	2800	0.12	1.0	732-1478-1-ND†	3.24	2.70	2.30	732-1478-2-ND†	1080.00	744228S
2 x 40	3100	0.25	0.9	732-1479-1-ND	3.24	2.70	2.30	732-1479-2-ND	1080.00	744225
2 x 40	3100	0.25	0.9	732-1480-1-ND†	3.24	2.70	2.30	732-1480-2-ND†	1080.00	744225S
2 x 51	5500	0.16	1.0	732-1481-1-ND	3.24	2.70	2.30	732-1481-2-ND	1080.00	744227
2 x 51	5500	0.16	1.0	732-1482-1-ND†	3.24	2.70	2.30	732-1482-2-ND†	1080.00	744227S
2 x 250	1800	0.13	1.2	732-1483-1-ND	3.24	2.70	2.30	732-1483-2-ND	1080.00	744224
2 x 500	3300	0.15	1.0	732-1484-1-ND	3.24	2.70	2.30	732-1484-2-ND	1080.00	744223
2 x 1000	6000	0.31	0.8	732-1485-1-ND	3.24	2.70	2.30	732-1485-2-ND	1080.00	744222
2 x 2000	9200	0.42	0.6	732-1486-1-ND	3.24	2.70	2.30	732-1486-2-ND	1080.00	744221
2 x 4700	20000	0.75	0.5	732-1487-1-ND	3.24	2.70	2.30	732-1487-2-ND	1080.00	744220
2 x 6500	18400	0.95	0.4	732-1488-1-ND	3.24	2.70	2.30	732-1488-2-ND	1080.00	744229

† Sectional Winding

WE-SL5 Series — SMD Common Mode Line Filters

Features:
- Small size
- Low profile
- Low stray/leakage inductance
- UL compliant housing (UL 94-V0)
- Rated voltage: 60V

Applications:
- USB
- CAN
- Firewire
- Data Lines
- Power Lines

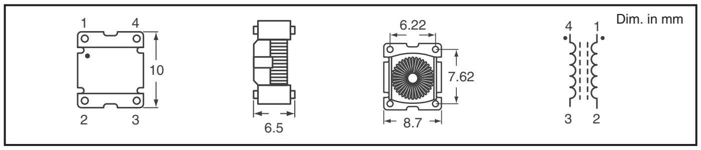

Inductance (µH)	Impedance Maximum (Ω)	Maximum DC Resistance (Ω)	Rated DC Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 800	Wurth Part No.
2 x 120	460	0.025	2.5	732-1489-1-ND	3.90	3.25	2.77	732-1489-2-ND	1248.00	744272121
2 x 220	780	0.032	2.2	732-1490-1-ND	3.90	3.25	2.77	732-1490-2-ND	1248.00	744272221
2 x 250	970	0.035	2.0	732-1491-1-ND	3.90	3.25	2.77	732-1491-2-ND	1248.00	744272251
2 x 470	1750	0.065	1.6	732-1492-1-ND	3.90	3.25	2.77	732-1492-2-ND	1248.00	744272471
2 x 1000	3600	0.180	.95	732-1493-1-ND	3.90	3.25	2.77	732-1493-2-ND	1248.00	744272102
2 x 2200	7500	0.300	.75	732-1494-1-ND	3.90	3.25	2.77	732-1494-2-ND	1248.00	744272222
2 x 3300	8900	0.360	.65	732-1495-1-ND	3.90	3.25	2.77	732-1495-2-ND	1248.00	744272332
2 x 3900	9600	0.540	.52	732-1496-1-ND	3.90	3.25	2.77	732-1496-2-ND	1248.00	744272392
2 x 4700	13000	0.720	.35	732-1497-1-ND	3.90	3.25	2.77	732-1497-2-ND	1248.00	744272472

Locking Clamp-On Ferrites for Cable Assembly

STAR-FLAT, STAR-TEC, STAR-RING and STAR-GAP Series

STAR-FLAT, STAR-TEC, STAR-RING Series:

Features: • Prefixing cable system eases the cable assembling process • Patented case design prevents air gaps for a perfect EMI suppression • The security lock guarantees electromagnetic compatibility because only authorized persons can unlock the snap ferrite with the STAR-TEC key • Innovative sleek design without any sharp edges makes the STAR-TEC blend in on the cable • The ferrite core is made of NiZn, a material which provides broadband suppression from 30MHz ~ 1.5GHz • Reinforced hinge design out performs competition

Specifications: • Material: plastic case PA 6, UL 94V-0 • Operating Temperature: -25°C ~ 105°C

STAR-GAP Series:

Features: • First split case ferrite with 'defined air-gap' • Especially helpful for EMI problems in frequency range of 100MHz up to 2.5GHz • Data signals up to 100MHz will not be effected • Best performance (impedance) especially with 2 windings • Low magnetic saturation of the material in cases of high DC current applications which therefore gives a low reduction of impedance in comparison to other manufacturers • Pre-fixing and cable protection system is time saving and makes it easier to assemble • Not possible to remove from the cable without the WE key • Non visible locking in closed conditions

Specifications: • Material: plastic case UL 94V-0 • Operating Temperature: -25°C ~ 105°C • 0.8mm air gap

Fig. 1

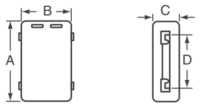

Fig. 2

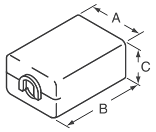

Fig. 3

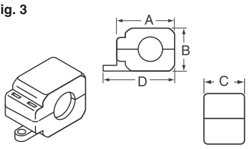

Fig. 4

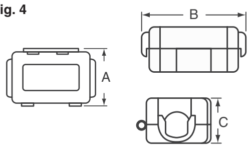

Max. Cable Diameter (mm)	Typical Impedance (Ω) with 1 Turn @ 25MHz	@ 100MHz	Dimensions — mm A	B	C	D	Digi-Key Part No.	Price Each 1	25	100	Wurth Part No.
STAR-FLAT Series — Fig. 1											
26 Conductor	97	194	53.3	33.1	16.0	34.0	732-1499-ND	8.56	7.14	6.32	7427246
40 Conductor	78	180	71.3	33.1	16.0	52.0	732-1501-ND	11.89	9.91	8.78	7427248
50 Conductor	72	192	84.5	33.1	16.0	64.5	732-1500-ND	15.69	13.08	11.59	7427247
50 Conductor	42	114	84.5	19.6	16.0	64.5	732-1502-ND	14.26	11.89	10.53	74272475
STAR-TEC Series — Fig. 2											
6.0	176	321	23.7	36.9	18.2	—	732-1503-ND	3.42	2.86	2.53	74271112
7.5	145	246	24.2	36.4	20.1	—	732-1504-ND	3.42	2.86	2.53	74271131
8.5	141	241	24.2	36.3	19.7	—	732-1505-ND	3.71	3.10	2.74	74271132
10.5	151	270	33.6	37.7	29.5	—	732-1506-ND	4.39	3.66	3.24	74271221
12.5	145	265	33.5	37.6	28.8	—	732-1507-ND	6.89	5.75	5.09	74271222
STAR-RING Series — Fig. 3											
8.0	83	165	23	20	20	30	732-1508-ND	1.90	1.59	1.41	7427153
14.5	64	119	32	30	20	40	732-1509-ND	2.71	2.26	2.00	7427151
16.0	71	130	35	32	20	43	732-1510-ND	3.14	2.62	2.32	7427154
27.0	142	327	48	44	20	55	732-1511-ND	8.08	6.74	5.97	7427155
STAR-GAP Series — Fig. 4											
8.5	28	100	22.5	35	19.3	—	732-1514-ND	4.04	3.37	2.99	74271633S
12.5	35	140	31.5	35	28.3	—	732-1513-ND	8.08	6.74	5.97	74271622S
STAR-TEC Key to open all clamps listed above.							732-1498-ND	.34	.28	.25	74271

EMI Suppression Toroidal Ferrite Cores

Features:

- Ferrite core made of NiZn, a material which works in a broadband frequency range

Applications:

- Wires • Coaxial cables • Wire-wrapping cables • Multiconductor wires • Power supplies • Data signal lines

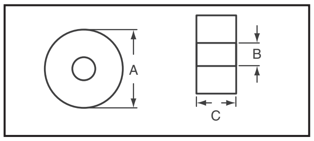

Max. Cable Diameter (mm)	Typical Impedance (Ω) with 1 Turn @ 25MHz	Typical Impedance (Ω) with 1 Turn @ 100MHz	Dimensions mm A	Dimensions mm B	Dimensions mm C	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Wurth Part No.
3.0	30	50	7.3	3.3	4.3	732-1515-ND	.16	3.24	11.47	74270111
4.6	76	123	9.5	5.0	14.5	732-1517-ND	.33	6.91	24.49	742701121
4.6	68	126	11.5	5.0	9.0	732-1518-ND	.26	5.43	19.22	74270113
4.7	25	37	10.0	5.0	3.7	732-1519-ND	.35	7.35	26.04	74270161
6.4	59	94	11.0	6.75	15.0	732-1520-ND	.53	10.94	38.75	74270162
9.6	41	161	14.0	10.0	8.0	732-1522-ND	.53	10.94	38.75	74270117
10.0	55	65	18.6	10.2	10.0	732-1524-ND	.95	19.78	70.06	74270182
10.3	59	83	17.5	10.7	12.7	732-1525-ND	.95	19.78	70.06	74270181
10.5	30	50	19.0	11.5	8.0	732-1526-ND	1.01	21.00	74.40	74270121
11.5	47	70	16.0	12.0	16.0	732-1527-ND	.95	19.78	70.06	74270110
11.8	76	148	23.5	12.6	14.0	732-1528-ND	1.09	22.75	80.60	7427012
12.3	30	70	21.2	12.7	6.0	732-1529-ND	.66	13.83	48.98	74270118
13.3	45	133	22.5	13.8	6.4	732-1530-ND	.66	13.83	48.98	74270119
15.5	72	159	28.0	16.0	13.0	732-1532-ND	1.43	29.75	105.40	7427013
17.5	45	152	28.0	18.0	7.5	732-1533-ND	1.01	21.00	74.40	742701110
18.5	55	155	29.5	19.0	7.7	732-1534-ND	.95	19.78	70.06	742701111
18.5	35	67	31.7	19.0	8.0	732-1535-ND	1.05	21.79	77.19	74270104
18.5	80	167	31.5	19.0	16.0	732-1536-ND	2.02	42.00	148.80	74270115
20.4	56	101	34.6	20.8	12.7	732-1537-ND	2.02	42.00	148.80	74270151
24.8	39	127	35.6	25.4	7.5	732-1538-ND	1.66	34.65	122.76	742701112
26.9	54	108	40.6	27.4	15.0	732-1539-ND	1.90	39.64	140.43	7427015

EMI Suppression Axial Ferrite Beads

Features:

- Ferrite core made of NiZn, a material which works in a broadband frequency range • Suitable for interference suppression within the HF and VHF range

Applications:

- Wires • Coaxial cables • Wire-wrapping cables • Multiconductor wires • Power supplies • Data signal lines

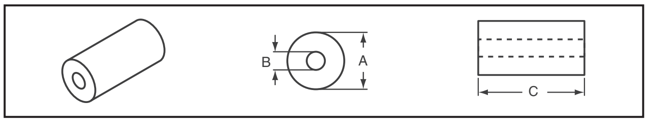

Max. Cable Diameter (mm)	Typical Impedance (Ω) with 1 Turn @ 25MHz	Typical Impedance (Ω) with 1 Turn @ 100MHz	Dimensions mm A	Dimensions mm B	Dimensions mm C	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Wurth Part No.
4.4	56	162	9.5	4.75	9.5	732-1540-ND	.24	4.99	17.67	74270033
4.6	125	158	11.5	5.0	18.5	732-1541-ND	.57	11.81	41.85	74270030
4.6	163	198	11.5	5.0	20.5	732-1542-ND	.66	13.83	48.98	74270031
4.6	170	255	11.5	5.0	25.0	732-1543-ND	.81	16.80	59.52	74270032
5.1	150	240	10.5	5.5	28.5	732-1544-ND	.66	13.83	48.98	74270036
5.2	119	199	12.0	5.6	20.0	732-1545-ND	.53	10.94	38.75	74270037
5.9	120	192	14.1	6.3	18.0	732-1546-ND	.71	14.88	52.70	74270060
5.9	180	258	14.1	6.3	28.6	732-1547-ND	.95	19.78	70.06	7427004
6.0	85	120	9.9	6.35	19.5	732-1548-ND	.76	15.84	56.11	74270061
6.5	173	275	15.5	6.9	20.0	732-1549-ND	.90	18.81	66.65	74270035
7.0	133	211	14.2	7.2	25.0	732-1550-ND	1.09	22.75	80.60	74270045
6.9	85	160	12.1	7.3	15.5	732-1551-ND	.62	12.86	45.57	74270034
7.5	300	451	15.85	7.93	50.8	732-1552-ND	3.33	69.30	245.52	74270044
7.6	195	258	16.0	8.0	28.5	732-1554-ND	1.14	23.80	84.32	74270053
8.1	46	70	12.0	8.5	15.0	732-1555-ND	.76	15.84	56.11	7427006
8.6	83	143	16.0	9.0	17.0	732-1556-ND	.86	17.85	63.24	74270054
8.6	133	217	16.0	9.0	28.0	732-1557-ND	1.05	21.79	77.19	7427005
9.1	71	170	17.5	9.5	12.7	732-1558-ND	.90	18.81	66.65	74270091
9.8	133	225	18.6	10.2	28.5	732-1559-ND	1.43	29.75	105.40	74270055
10.0	90	150	17.5	10.7	25.0	732-1560-ND	1.43	29.75	105.40	74270093
11.0	202	338	19.0	11.5	50.8	732-1561-ND	3.81	79.28	280.86	74270057
15.0	116	192	26.0	15.5	28.5	732-1563-ND	3.33	69.30	245.52	74270096
17.5	115	153	28.0	18.0	28.5	732-1564-ND	2.38	49.53	175.46	74270095
33.4	64	133	61.0	35.5	12.7	732-1565-ND	5.23	108.94	385.95	74270097

WE-CBF Series — SMD EMI Suppression Ferrite Beads

Type
WB: Wide Band
HS: High Speed
HC: High Current

Features:

- Special SMD chip bead ferrites can be put directly on the printed circuit board • Offers excellent anti-EMI properties and low DC-resistance

Applications:

- Reliable Ni-Sn electrodes • Suitable for wave and reflow soldering as well as pasting • Perfect as data lined filter and for uncoupling of distribution voltage

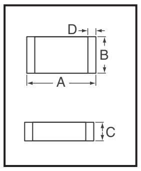

Size	Dimensions - mm A	B	C	D
0402	1.0	0.5	0.5	0.25
0603	1.6	0.8	0.8	0.3
0805	2.0	1.2	0.9	0.5
1206	3.2	1.6	1.1	0.5
1210	3.2	2.5	1.3	0.5
1806	4.5	1.6	1.6	0.5
1812	4.5	3.2	1.5	0.5

Imped-ance @ 100MHz (Ω)	RDC Max. (Ω)	Max. Current Rating (A)	Type	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Tape and Reel* Qty.	Tape and Reel* Pricing	Wurth Part No.
				0402 Size						
10	0.05	.5	HS	732-1566-1-ND	.10	2.13	7.23	10,000	23.00/M	742792701
40	0.30	.3	HS	732-1567-1-ND	.10	2.13	7.23	4,000	30.00/M	74279270
60	0.35	.3	HS	732-1568-1-ND	.10	2.13	7.23	4,000	30.00/M	74279276
120	0.40	.3	WB	732-1570-1-ND‡	.10	2.13	7.23	4,000	30.00/M	74279271
220	0.40	.2	HS	732-1569-1-ND	.10	2.13	7.23	4,000	30.00/M	742792780
240	0.70	.2	WB	732-1571-1-ND	.10	2.13	7.23	4,000	30.00/M	74279278
300	0.80	.2	WB	732-1572-1-ND‡	.10	2.13	7.23	4,000	30.00/M	74279272
600	1.00	.2	WB	732-1573-1-ND‡	.10	2.13	7.23	4,000	30.00/M	74279279
1000	1.50	.05	WB	732-1574-1-ND	.10	2.13	7.23	10,000	23.00/M	742792795
				0603 Size						
15	0.10	.5	HS	732-1575-1-ND	.09	1.88	6.38	4,000	26.00/M	74279268
22	0.05	1.0	HC	732-1597-1-ND‡	.14	3.00	10.20	4,000	42.00/M	742792604
28	0.03	4.0	HC	732-1590-1-ND	.14	3.00	10.20	4,000	42.00/M	742792603
30	0.04	3.0	HC	732-1591-1-ND	.14	3.00	10.20	4,000	42.00/M	742792609
40	0.15	.4	HS	732-1576-1-ND	.09	1.88	6.38	4,000	26.00/M	74279260
47	0.10	.5	HS	732-1596-1-ND‡	.09	1.88	6.38	4,000	26.00/M	742792608
60	0.30	.5	WB	732-1595-1-ND‡	.09	1.88	6.38	4,000	26.00/M	74279267
80	0.30	.2	HS	732-1577-1-ND	.09	1.88	6.38	4,000	26.00/M	74279261
100	0.15	.5	WB	732-1579-1-ND	.09	1.88	6.38	4,000	26.00/M	742792620
120	0.30	.5	WB	732-1594-1-ND‡	.09	1.88	6.38	4,000	26.00/M	74279262
180	0.30	.5	WB	732-1580-1-ND	.09	1.88	6.38	4,000	26.00/M	742792622
220	0.30	.5	WB	732-1581-1-ND	.09	1.88	6.38	4,000	26.00/M	74279263
300	0.15	2.0	HC	732-1592-1-ND	.14	3.00	10.20	4,000	42.00/M	742792641
300	0.35	.3	HS	732-1578-1-ND	.09	1.88	6.38	4,000	26.00/M	742792640
470	0.45	.2	WB	732-1582-1-ND	.09	1.88	6.38	4,000	26.00/M	742792642
600	0.20	1.0	HC	732-1593-1-ND	.14	3.00	10.20	4,000	42.00/M	742792651
600	0.45	.2	WB	732-1583-1-ND‡	.09	1.88	6.38	4,000	26.00/M	74279265
1000	0.60	.2	WB	732-1598-1-ND‡	.14	3.00	10.20	4,000	42.00/M	74279266A
1000	0.60	.3	HS	732-1586-1-ND	.09	1.88	6.38	4,000	26.00/M	742792664
1000	0.85	.1	WB	732-1585-1-ND	.09	1.88	6.38	4,000	26.00/M	742792663
1500	0.70	.05	WB	732-1587-1-ND	.09	1.88	6.38	4,000	26.00/M	742792691
2200	0.80	.05	WB	732-1588-1-ND‡	.09	1.88	6.38	4,000	26.00/M	742792693
2500	1.00	.05	WB	732-1589-1-ND	.09	1.88	6.38	4,000	26.00/M	742792695
				0805 Size						
7	0.030	3.0	HC	732-1618-1-ND‡	.14	3.00	10.20	4,000	42.00/M	742792010
11	0.15	.60	HS	732-1616-1-ND‡	.09	1.88	6.38	4,000	26.00/M	7427920
30	0.025	3.0	HC	732-1611-1-ND‡	.14	3.00	10.20	4,000	42.00/M	74279206
32	0.15	.05	HS	732-1599-1-ND	.09	1.88	6.38	4,000	26.00/M	74279201
60	0.025	3.0	HC	732-1612-1-ND‡	.14	3.00	10.20	4,000	42.00/M	742792063
75	0.20	.30	HS	732-1600-1-ND	.09	1.88	6.38	4,000	26.00/M	742792064
120	0.03	3.0	HC	732-1613-1-ND	.14	3.00	10.20	4,000	42.00/M	742792023
120	0.10	.50	HS	732-1601-1-ND‡	.09	1.88	6.38	4,000	26.00/M	74279202
220	0.05	2.0	HC	732-1614-1-ND	.14	3.00	10.20	4,000	42.00/M	742792022
220	0.30	.30	HS	732-1602-1-ND	.09	1.88	6.38	4,000	26.00/M	742792034
330	0.08	2.0	HC	732-1619-1-ND‡	.14	3.00	10.20	4,000	42.00/M	742792037
470	0.30	.20	WB	732-1603-1-ND	.09	1.88	6.38	4,000	26.00/M	742792036
600	0.15	2.0	HC	732-1620-1-ND‡	.14	3.00	10.20	4,000	42.00/M	742792040
600	0.30	.50	WB	732-1605-1-ND	.09	1.88	6.38	4,000	26.00/M	7427920415
600	0.35	.20	WB	732-1617-1-ND‡	.09	1.88	6.38	4,000	26.00/M	74279204
600	0.40	.20	WB	732-1604-1-ND	.09	1.88	6.38	4,000	26.00/M	742792041
1000	0.45	.20	WB	732-1606-1-ND‡	.09	1.88	6.38	4,000	26.00/M	74279205
1500	0.55	.20	WB	732-1607-1-ND	.09	1.88	6.38	4,000	26.00/M	742792091
1800	0.40	.20	HS	732-1608-1-ND	.09	1.88	6.38	4,000	26.00/M	742792090
2200	0.60	.20	WB	732-1609-1-ND‡	.09	1.88	6.38	4,000	26.00/M	742792093
2700	0.60	.20	WB	732-1610-1-ND	.09	1.88	6.38	4,000	26.00/M	742792095
				1206 Size						
31	0.040	3.0	HC	732-1626-1-ND‡	.25	5.13	17.43	3,000	72.00/M	742792112
50	0.025	3.0	HC	732-1621-1-ND	.25	5.13	17.43	3,000	72.00/M	742792114
80	0.03	3.0	HC	732-1629-1-ND‡	.25	5.13	17.43	3,000	72.00/M	74279215
120	0.03	3.0	HC	732-1622-1-ND	.25	5.13	17.43	3,000	72.00/M	742792113
220	0.30	.30	WB	732-1624-1-ND‡	.25	5.13	17.43	3,000	72.00/M	742792122
600	0.10	2.0	HC	732-1623-1-ND‡	.25	5.13	17.43	3,000	72.00/M	74279218
600	0.30	.20	WB	732-1625-1-ND‡	.25	5.13	17.43	3,000	72.00/M	74279213
1000	0.45	.20	WB	732-1627-1-ND‡	.25	5.13	17.43	3,000	72.00/M	74279214
				1210 Size						
30	0.05	3.0	HC	732-1631-1-ND	.25	5.13	17.43	2,000	82.00/M	742792310
52	0.05	3.0	HC	732-1632-1-ND	.25	5.13	17.43	2,500	72.00/M	742792311
65	0.03	3.0	HC	732-1633-1-ND‡	.25	5.13	17.43	2,000	82.00/M	742792312
90	0.30	.40	HS	732-1634-1-ND‡	.25	5.13	17.43	2,000	82.00/M	7427923
				1806 Size						
60	0.01	6.0	HC	732-1635-1-ND‡	.35	7.38	25.08	2,000	118.00/M	742792410
80	0.04	3.0	HC	732-1636-1-ND	.35	7.38	25.08	2,000	118.00/M	742792411
110	0.035	4.0	HC	732-1638-1-ND‡	.35	7.38	25.08	2,000	118.00/M	74279245
150	0.50	.20	WB	732-1639-1-ND‡	.35	7.38	25.08	2,000	118.00/M	74279242
850	0.10	1.5	HC	732-1637-1-ND	.35	7.38	25.08	2,000	118.00/M	74279244
				1812 Size						
70	0.03	6.0	HC	732-1640-1-ND	.35	7.38	25.08	1,000	118.00	742792510
120	0.05	3.0	HC	732-1641-1-ND	.35	7.38	25.08	1,000	118.00	742792511
530	0.05	3.0	HC	732-1642-1-ND‡	.35	7.38	25.08	1,000	118.00	742792515
600	0.04	3.0	HC	732-1643-1-ND	.35	7.38	25.08	1,000	118.00	742792514

* For Tape and Reel part number, change 1-ND to 2-ND.

‡732-1644-ND WE-CBF Series SMD EMI Suppression Ferrite Bead Kit (30 each of 36 different components)… **$63.00**

Tyco Electronics Corcom
Authorized Distributor

Feedthrough Filters and Capacitors

Filters – FFD and FFA Series

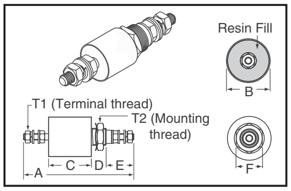

All parts are UL approved and CSA pending.

The FFD and FFA series are designed to meet the very stringent safety requirements of EN132400 class Y4 and the class Y2

Specifications: • UL94V-0 Rated • Category Temperature Range: -40°C ~ 85°C • Insulation Resistance: For C<0.33µF, R>15000MΩ / For C>0.33µF, RC(MΩ*µF) >5000s • MTBF: Typically >5 million hours

FFA Series (Class Y2): • Rated Voltage: 250 VDC 50/60 Hz maximum • Test Voltage (two seconds): 5000 VDC • Operating Ambient Temp. Range: 10 ~ 100 Amps: -40°C ~ 60°C; 200 Amps: -40°C ~ 50°C; 250 & 300 Amps: -40°C ~ 40°C • Pulse Test (EN132400): 5000V Peak

FFD Series (Class Y4): • Rated Voltage: 130VDC maximum • Test Voltage (two seconds): 2500VDC • Operating Ambient Temperature Range: -40°C ~ 60°C • Pulse Test (EN132400): 2500V Peak

Series	Filter ID	Frequency (MHz) 0.01	0.03	0.1	0.3	1	10	100	1000
FFA	CA	—	—	2	4	10	22	65	100
	DG	—	—	3	7	15	40	72	100
	GJ	—	—	5	12	21	60	90	100
	HF	—	2	10	18	27	60	100	100
	HN	2	4	10	17	24	75	90	100
	NP	7	15	24	31	44	80	100	100
	PP	12	20	29	33	56	80	100	100
FFD	CA	—	—	2	4	10	23	65	100
	HE	2	4	10	18	27	67	95	100
	PK	14	21	30	34	53	75	100	100

Series	Corcom Part No.	Dimensions (mm) A	B	C	D	E	F	T1 (Terminal Thread) Thread	Torque (In.-lbs.)	T1 (Terminal Thread) Thread	Torque (In.-lbs.)
FFA	32FFA6-CA	106	20	61	12	18	17	M4	11	M16 x 1	62
	16FFA6-DG	116	25	69	14	18	22	M4	11	M16 x 1	62
	10FFA6-GJ	140	20	99	12	16	17	M3	4	M12 x 1	35
	300FFA6-HF	200	54	93	19	46	40	M16	177	M32 x 1.5	212
	32FFA6-HN	148	25	101	14	18	22	M4	11	M16 x 1	62
	200FFA6-NP	243	54	146	19	40	40	M10	70	M27 x 1.5	142
	100FFA6-PP	227	54	144	19	32	40	M8	44	M27 x 1.5	142
FFD	10FFD6-CA	90	20	49	12	16	17	M3	4	M12 x 1	35
	32FFD6-CA	98	20	53	12	18	17	M4	11	M12 x 1	35
	10FFD6-HE	130	20	89	12	16	17	M3	4	M12 x 1	35
	16FFD6-HE	139	20	94	12	18	17	M4	11	M12 x 1	35
	100FFD6-PK	228	38	145	19	32	27	M8	44	M24 x 1	124

Filter ID	Cap. (nF)	Rated Current (A)	Induct-ance (nH)	DC Resistance (MΩ) Max.	Digi-Key Part No.	Price Each 1	25	50	Corcom Part No.
FFA Series									
CA	2x10	32	70	4	CCM1830-ND	99.36	95.68	92.00	32FFA6-CA
DG	2x22	16	170	4	CCM1832-ND	98.05	94.42	90.79	16FFA6-DG
GJ	2x47	10	210	9	CCM1834-ND	93.31	89.86	86.40	10FFA6-GJ
HF	2x100	300	160	<1	CCM1831-ND	271.44	261.40	251.34	300FFA6-HF
HN	2x100	32	250	6	CCM1835-ND	114.26	110.04	105.80	32FFA6-HN
NP	2x470	200	330	<2	CCM1833-ND	219.74	211.60	203.46	200FFA6-NP
PP	2x1000	100	330	<2	CCM1836-ND	198.77	191.42	184.05	100FFA6-PP
FFD Series									
CA	2x10	10	70	6	CCM1815-ND	83.01	79.94	76.86	10FFD6-CA
CA	2x10	32	70	6	CCM1816-ND	94.62	91.12	87.61	32FFD6-CA
HE	2x100	10	140	8	CCM1817-ND	88.75	85.46	82.19	10FFD6-HE
HE	2x100	16	140	5	CCM1837-ND	96.67	93.09	89.52	16FFD6-HE
PK	2x1000	100	240	2	CCM1838-ND	189.30	182.30	175.29	100FFD6-HE

Capacitors – AFC and DFC Series

The AFC and DFC Series are designed to meet the very stringent safety requirements of EN132400 class Y2 and Y4

Specifications: • UL94V-0 Rated • Operating Ambient Temperature Range: 10 ~ 200 Amps: -40°C ~ 60°C; 250 & 300 Amps: -40°C ~ 40°C • Insulation Resistance: For C<0.33µF, R >15000MΩ / For C>0.33µF, RC(MΩ*µF) >5000s • MTBF: Typically >10 million hours

AFC Series (Class Y2): • Rated Voltage: 250VAC maximum • Test Voltage (two seconds): 5000VDC • Pulse Test (EN132400): 5000V Peak

DFC Series (Class Y4): • Rated Voltage: 130VDC maximum • Test Voltage (two seconds): 2500VDC • Pulse Test (EN132400): 2500V Peak

Series	Cap. ID	Frequency (MHz) 0.01	0.03	0.1	0.3	1	10	100	1000
AFC	A	—	—	—	—	—	8	38	45
	B	—	—	—	—	—	14	43	60
	C	—	—	—	—	3	21	45	70
	F	—	—	—	4	12	30	48	90
	G	—	—	2	6	15	34	50	90
	H	—	2	5	11	20	40	65	90
	N	6	9	16	22	33	33	90	90
	P	10	15	22	30	40	42	90	90
DFC	C	—	—	—	—	3	21	45	70
	G	—	—	2	6	15	34	50	90
	H	—	2	5	11	20	40	65	90
	N	6	9	15	22	33	33	90	90
	P	10	15	24	32	42	50	90	90
	Q	13	21	31	42	50	58	90	90
	R	18	26	36	45	52	70	90	90

Series	Corcom Part No.	Dimensions (mm) A	B	C	D	E	F	T1 (Terminal Thread) Thread	Torque (In.-lbs.)	T2 (Mounting Thread) Thread	Torque (In.-lbs.)
AFC	10AFC6-A	57	15	18	10	16	13	M3	4	M10 X 1	27
	10AFC6-B	57	15	18	10	16	13	M3	4	M10 X 1	27
	16AFC6-B	63	20	18	12	18	17	M4	11	M12 X 1	35
	16AFC6-G	75	20	30	12	18	17	M4	11	M12 X 1	35
	16AFC6-H	77	25	30	14	18	22	M4	11	M16 X 1	62
	32AFC6-B	63	20	18	12	18	17	M4	11	M12 X 1	35
	32AFC6-C	63	20	18	12	18	17	M4	11	M12 X 1	35
	32AFC6-F	75	20	30	12	18	17	M4	11	M12 X 1	35
	32AFC6-H	77	25	30	14	18	22	M4	11	M16 X 1	62
	63AFC6-C	96	25	30	14	26	22	M6	22	M16 X 1	62
	100AFC6-G	113	32	33	16	32	27	M8	44	M20 X 1	89
	200AFC6-H	130	38	33	19	40	27	M10	71	M24 X 1	124
	250AFC6-P	160	54	54	19	46	40	M12	97	M32 X 1.5	212
	300AFC6-N	160	54	54	19	46	40	M16	177	M32 X 1.5	212
DFC	10DFC6-C	57	15	18	10	16	13	M3	4	M10 X 1	27
	16DFC6-C	63	20	18	12	18	17	M4	11	M12 X 1	35
	16DFC6-G	75	20	30	12	18	17	M4	11	M12 X 1	35
	16DFC6-H	75	20	30	12	18	17	M4	11	M12 X 1	35
	16DFC6-N	82	32	33	16	18	27	M4	11	M20 X 1	89
	32DFC6-C	63	20	18	12	18	17	M4	11	M12 X 1	35
	32DFC6-G	75	20	30	12	18	17	M4	11	M12 X 1	35
	32DFC6-N	82	32	33	16	18	27	M4	11	M20 X 1	89
	63DFC6-G	96	25	30	14	26	22	M6	22	M16 X 1	62
	100DFC6-H	113	32	33	16	32	27	M8	44	M20 X 1	89
	100DFC6-P	133	38	50	19	32	27	M8	44	M24 X 1	124
	200DFC6-R	165	54	68	19	40	40	M10	71	M27 X 1.5	142
	300DFC6-Q	160	54	54	19	46	40	M16	177	M32 X 1.5	212

Cap. ID	Cap. (nF)	Rated Current (A)	Max. Leakage Current (mA)	Digi-Key Part No.	Price Each 1	25	50	Corcom Part No.
AFC Series								
A	2.2	10	0.21	CCM1796-ND	50.46	48.59	46.73	10AFC6-A
B	10	0.44	0.44	CCM1797-ND	50.52	48.65	46.78	10AFC6-B
	4.7	16		CCM1798-ND	46.40	44.68	42.96	16AFC6-B
	32	0.44		CCM1801-ND	47.16	45.41	43.66	32AFC6-B
C	10	32	0.94	CCM1802-ND	47.90	46.12	44.35	32AFC6-C
		63	0.94	CCM1794-ND	53.64	51.65	49.67	63AFC6-C
F	33	32	3.1	CCM1844-ND	49.83	47.98	46.14	32AFC6-F
G	47	16	4.4	CCM1799-ND	49.09	47.27	45.45	16AFC6-G
		100	4.4	CCM1795-ND	76.65	73.81	70.99	100AFC6-G
H	100	16	9.4	CCM1800-ND	52.95	50.99	49.03	16AFC6-H
		32	9.4	CCM1793-ND	54.39	52.38	50.36	32AFC6-H
		200	9.4	CCM1803-ND	84.15	81.04	77.91	200AFC6-H
N	470	300	44	CCM1840-ND	236.30	227.56	218.80	300AFC6-N
P	1000	250	94	CCM1839-ND	225.48	217.13	208.78	250AFC6-P
DFC Series								
C	10	10	—	CCM1807-ND	50.52	48.65	46.78	10DFC6-C
		16	—	CCM1808-ND	46.59	44.86	43.14	16DFC6-C
		32	—	CCM1812-ND	47.34	45.59	43.84	32DFC6-C
G	47	16	—	CCM1809-ND	48.40	46.61	44.81	16DFC6-G
		32	—	CCM1813-ND	49.52	47.68	45.85	32DFC6-G
		63	—	CCM1804-ND	57.63	55.50	53.36	63DFC6-G
H	100	16	—	CCM1810-ND	48.96	47.15	45.34	16DFC6-H
		100	—	CCM1805-ND	80.53	77.55	74.57	100DFC6-H
N	470	16	—	CCM1811-ND	65.75	63.31	60.88	16DFC6-N
		32	—	CCM1814-ND	66.61	64.14	61.68	32DFC6-N
P	1000	100	—	CCM1806-ND	96.74	93.16	89.58	100DFC6-P
Q	3300	300	—	CCM1841-ND	193.85	186.67	179.50	300DFC6-Q
R	4700	200	—	CCM1842-ND	123.24	118.68	114.11	200DFC6-R

TDK

Flexield® Noise Suppression Sheets - Flexible Ferrite Material

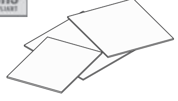

Flexield is an absorptive electromagnetic shielding material consisting of magnetic material and resin. It suppresses noise radiated from electronic equipment over a wide range of frequencies, offers flexibility in fabrication, and delivers particularly excellent performance in high frequency ranges. Flexield is the ideal sheet-type noise reduction product for mobile devices including notebook PCs, digital cameras, and cell phones.

Features: • Flexible-will not crack • Well suited for thin and compact devices • Support a wide range of frequency bands • Excellent performance at high frequencies

Applications: • Electromagnetic noise reduction for electric equipment • Internal EMI • Resonance reduction • Amplifier • Radiated noise reduction • Surface current suppression • Improvement of noise immunity • Electrostatic discharge countermeasure • Improved antenna reception sensitivity

L x W x T (mm)	Suggested Frequency Range MHz/GHz	Material Name	Minimum Initial Permeability (ui)@10MHz	Digi-Key Part No.	Price Each 1	10	TDK Part No.
Operating Temperature Range -40°C ~ 85°C							
300 x 200 x .5	100/10	IRL03	25	445-2581-ND	52.50	45.00	IRL03AB 300X200X0.5
200 x 200 x 1	100/10	IRL02	25	445-2582-ND	43.75	37.50	IRL02A 200X200X1
300 x 200 x .25	50/10	IRL04	35	445-2584-ND	52.50	45.00	IRL04EAB 300X200X0.25
300 x 200 x .5	50/10	IRL04	35	445-2585-ND	66.50	57.00	IRL04EAB 300X200X0.5
300 x 200 x .1	30/10	IRL05	60	445-2586-ND	78.75	67.50	IRL05AB 300X200X0.1
Operating Temperature Range -40°C ~ 125°C							
300 x 200 x .25	50/10	IRJ04	35	445-2587-ND	66.50	57.00	IRJ04AB 300X200X0.25

Ferrite Beads / SMD

Digi-Reel®

MMZ – Digital Signal Line Application **MPZ** – Power Supply Line Application

MATERIAL CHARACTERISTICS:

A Material: This high-impedance product is based on the impedance frequency characteristics of our Y-material. The product offers excellent impedance characteristics, which is greater than 2500Ω, in the vicinity of 100MHz range (MMZ1608A252B).

B Material: This type is perfectly suited for fast digital signals. By equalizing R components and X components that beads possess at a frequency of 5MHz, it is able to suppress overshooting, undershooting and ringing of fast digital signals.

D Material: For applications calling for low insertion loss at low frequencies and sharply increasing impedance at high frequencies. Designed for high impedance at high frequencies (200 ~ 500MHz) for signal line applications.

F Material: This new product inherits the characteristic of the D Material, namely its sharp impedance rise time, and its impedance peak frequency has been shifted higher into range. The product offers excellent noise suppression from 600MHz to as high as in the GHz range.

R Material: For digital signal line applications.

S Material: For signal line applications in which the blocking region is near 100MHz.

Y Material: High frequency range type intended for the 100MHz region and above. For signal line applications in which the signal frequency is far from the cutoff frequency.

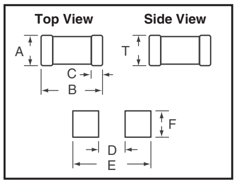

Series	Dimensions - mm A	B	C	D	E	F	T
MMZ0603	0.3	0.6	—	0.3	0.8	0.3	0.3
MMZ1005	0.5	1	0.1	0.5	1.4	0.5	0.5
MPZ1005	0.5	1	0.1	0.5	1.4	0.5	0.5
MMZ1608	0.8	1.6	0.3	0.8	2.0	0.8	0.8
MMZ1608-C	0.8	1.6	0.3	0.8	2.0	0.8	0.6
MPZ1608	0.8	1.6	0.3	0.8	2.0	0.8	0.6*
MMZ2012	1.25	2	0.5	1	3.6	1.2	0.85
MPZ2012	1.25	2	0.5	1	3.6	1.2	0.85

* 220Ω and 600Ω = 0.8

Imp. 100MHz (Ω)±25%	I Max. (A)	Rdc Max. (Ω)	Mate-rial	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Tape and Reel* Qty.	Pricing	TDK Part No.
MMZ0603 Series — 0201 Size										
33	0.10	1.0	D	445-2140-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603D330C
56	0.10	1.3		445-3332-1-ND	1.36	5.88	10.86	15,000	63.00/M	MMZ0603D560C

* For Tape and Reel part number, change 1-ND to 2-ND. ‡ Impedance tolerance is ±5Ω *(Continued)*

TDK Ferrite Beads / SMD *(Cont.)*

Imp. 100MHz (Ω)±25%	I Max. (A)	Rdc Max. (Ω)	Mate-rial	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel*		TDK Part No.
					10	50	100	Qty.	Pricing	
80	0.10	1.5	D	445-3333-1-ND	1.36	5.88	10.86	15,000	63.00/M	MMZ0603D800C
10	0.20	0.8	F	445-3334-1-ND‡	1.36	5.88	10.86	15,000	63.00/M	MMZ0603F100C
10	0.50	0.15	S	445-2141-1-ND‡	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S100C
80	0.20	0.5		445-2142-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S800C
120	0.20	0.8		445-2143-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S121C
240	0.10	1.0		445-2144-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S241C
470	0.05	1.8		445-2145-1-ND	1.40	6.05	11.16	15,000	65.00/M	MMZ0603S471C
600	0.05	2.0		445-2146-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S601C
120	0.20	0.8	Y	445-2147-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603Y121C
240	0.10	1.0		445-2148-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603Y241C
470	0.05	1.8		445-2149-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603Y471C
MMZ1005 Series — 0402 Size										
80	0.45	0.2	B	445-3335-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005B800C
120	0.40	0.25		445-3336-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005B121C
600	0.20	0.85		445-3337-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005B601C
10	0.50	0.1	D	445-3338-1-ND‡	.57	2.47	4.57	10,000	27.00/M	MMZ1005D100C
22	0.40	0.2		445-3339-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005D220C
33	0.40	0.35		445-3340-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005D330C
68	0.40	0.55		445-3341-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005D680C
120	0.35	0.75		445-3342-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005D121C
240	0.20	1.2		445-3343-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005D241C
33	0.20	0.6	F	445-3344-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005F330C
47	0.10	0.8		445-3345-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005F470C
56	0.10	0.8		445-3346-1-ND	.57	2.47	4.57	10,000	27.00/M	MMZ1005F560C
80	0.50	0.2	S	445-2159-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S800C
120	0.50	0.25		445-2160-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S121C
240	0.40	0.4		445-2161-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S241C
600	0.30	0.6		445-2162-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S601C
1000	0.20	1.0		445-2163-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S102C
40	0.55	0.12	Y	445-2150-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y400C
80	0.45	0.17		445-2151-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y800C
120	0.40	0.21		445-2152-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y121C
240	0.30	0.33		445-2153-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y241C
300	0.25	0.38		445-2154-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y301C
470	0.25	0.5		445-2155-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y471C
600	0.25	0.56		445-2156-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y601C
1000	0.20	0.74		445-2157-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y102C
1500	0.10	1.15		445-2158-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y152C
MPZ1005 Series — 0402 Size										
10	2.0	.045	S	445-2978-1-ND	.60	2.62	4.83	10,000	28.00/M	MPZ1005S100C
30	1.7	.050		445-2979-1-ND	.60	2.62	4.83	10,000	28.00/M	MPZ1005S300C
60	1.5	.075		445-2980-1-ND	.60	2.62	4.83	10,000	28.00/M	MPZ1005S600C
120	1.2	.090		445-2981-1-ND	.60	2.62	4.83	10,000	28.00/M	MPZ1005S121C
MMZ1608 Series — 0603 Size										
15	1.5	0.05	R	445-2180-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R150A
30	1.5	0.05		445-2181-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R300A
60	0.8	0.1		445-2182-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R600A
120	0.5	0.18		445-2170-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R121A
300	0.5	0.25		445-2171-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R301A
600	0.5	0.4		445-1547-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R601A
1000	0.4	0.5		445-1548-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R102A
40	0.6	0.1	S	445-2183-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S400A
80	0.5	0.15		445-2172-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S800A
120	0.5	0.2		445-2173-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S121A
180	0.5	0.2		445-2174-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S181A
300	0.5	0.3		445-2175-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S301A
600	0.5	0.4		445-1549-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S601A
1000	0.4	0.5		445-1550-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S102A
15	1.5	0.05	Y	445-2184-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y150B
30	1.5	0.05		445-2185-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y300B
60	0.5	0.15		445-2186-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y600B
120	0.5	0.2		445-2176-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y121B
300	0.5	0.3		445-2177-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y301B
600	0.5	0.4		445-1551-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y601B
1000	0.4	0.5		445-1552-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y102B
1500	0.3	0.6		445-1553-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y152B
1500	0.3	1.0	A	445-2178-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608A152E
2500	0.2	0.8		445-2179-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608A252B
80	0.5	0.4	D	445-2167-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608D800B
120	0.4	0.5		445-2168-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608D121B
300	0.3	0.7		445-2169-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608D301B
MMZ1608-C Series — 0603 Size										
120	0.6	0.15	B	445-2164-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608B121C
300	0.5	0.25		445-2165-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608B301C
600	0.5	0.4		445-2166-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608B601C
MPZ1608 Series — 0603 Size										
30	5.0	0.01	S	445-1562-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S300A
60	3.5	0.02	S	445-1563-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S600A
100	3.0	0.03		445-1564-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S101A
220	2.0	0.05		445-1565-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S221A
600	1.0	0.15		445-2205-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S601A
390	1.2	.12	R	445-2982-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608R391A
60	2.3	.03	Y	445-2983-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608Y600B
100	2.0	.05		445-2984-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608Y101B
150	1.8	.07		445-2985-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608Y151B
30	1.8	.07	D	445-2986-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608D300B
60	1.2	.12		445-2987-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608D600B
100	1.0	.15		445-2988-1-ND	.54	2.36	4.35	4,000	25.00/M	MPZ1608D101B
MMZ2012 Series — 0805 Size										
15	1.5	0.05	R	445-2198-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R150A
30	1.5	0.05		445-2199-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R300A
60	1.0	0.1		445-2200-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R600A
120	0.8	0.12		445-2190-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R121A
300	0.6	0.15		445-2191-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R301A
600	0.5	0.2		445-1554-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R601A
1000	0.5	0.3		445-1555-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R102A
40	1.0	0.1	S	445-2201-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S400A
80	0.8	0.1		445-2192-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S800A
120	0.8	0.15		445-2193-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S121A
180	0.6	0.15		445-2194-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S181A
300	0.6	0.2		445-2195-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S301A
600	0.5	0.3		445-1556-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S601A
1000	0.5	0.35		445-1557-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S102A
15	1.5	0.05	Y	445-2202-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y150B
30	1.5	0.05		445-2203-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y300B
60	1.0	0.1		445-2204-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y600B
120	0.8	0.12		445-2196-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y121B
300	0.6	0.15		445-2197-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y301B
600	0.5	0.2		445-1558-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y601B
1000	0.5	0.3		445-1559-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y102B
1500	0.5	0.4		445-1560-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y152B
2000	0.4	0.5		445-1561-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y202B
80	0.5	0.3	D	445-2187-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012D800B
120	0.5	0.3		445-2188-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012D121B
300	0.4	0.5		445-2189-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012D301B
MPZ2012 Series — 0805 Size										
30	5.0	0.01	S	445-1566-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S300A
100	4.0	0.02		445-1567-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S101A
220	3.0	0.04		445-1568-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S221A
330	2.5	0.05		445-1569-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S331A
600	2.0	0.1		445-2206-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S601A

* For Tape and Reel part number, change 1-ND to 2-ND. ‡ Impedance tolerance is ±5Ω

Chip Beads (SMD Array) – MZA3216 Series

Features: • A single MZA series chip provides noise attenuation for four lines, making it ideal for use with I/O lines of various highly miniaturized devices • Low crosstalk between adjacent circuits • Internal electrodes feature low DC resistance, minimizing wasteful power consumption • Electroplated terminal electrodes accommodate reflow soldering • Monolithic structure ensures high reliability • Contains no lead and also supports lead-free soldering

Operating Temperature Range: -55°C ~ 125°C

Applications: • Computers • Printers • VCRs • Televisions • Portable telephones • Electronic equipment, such as portable products, which comprise high density circuitry

S Material: For signal line applications in which the blocking region is near 100MHz.

Y Material: High frequency range type intended for the 100MHz region and above. For signal line applications in which the signal frequency is far from the cutoff frequency.

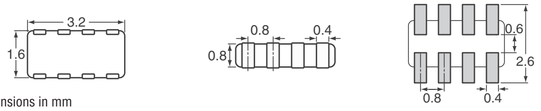

Dimensions in mm

Imp. 100MHz (Ω)±25%	I Max. (A)	Rdc Max. (Ω)	Mate-rial	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing* 4,000	TDK Part No.
					10	50	100		
60	0.30	0.2	S	445-3347-1-ND	4.13	17.88	33.00	193.00/M	MZA3216S600A
120	0.25	0.2		445-3348-1-ND	4.13	17.88	33.00	193.00/M	MZA3216S121A
300	0.20	0.4		445-3349-1-ND	4.13	17.88	33.00	193.00/M	MZA3216S301A
600	0.20	0.5		445-3350-1-ND	4.13	17.88	33.00	193.00/M	MZA3216S601A
60	0.30	0.2	Y	445-3351-1-ND	4.13	17.88	33.00	193.00/M	MZA3216Y600B
120	0.25	0.2		445-3377-1-ND	4.13	17.88	33.00	193.00/M	MZA3216Y121B
240	0.20	0.3		445-3352-1-ND	4.13	17.88	33.00	193.00/M	MZA3216Y241B
300	0.20	0.4		445-3378-1-ND	4.13	17.88	33.00	193.00/M	MZA3216Y301B
600	0.20	0.5		445-3379-1-ND	4.13	17.88	33.00	193.00/M	MZA3216Y601B
1000	0.15	0.6		445-3380-1-ND	4.13	17.88	33.00	193.00/M	MZA3216Y102B

* For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Signal Line and DC Power Line / SMD – ACF and ACH Series

Features: • The ACF and ACH series are T-type EMC filters incorporating ferrite chip beads and multilayer ceramic chip capacitors. • The external structure consists entirely of ferrite, enabling these parts to achieve superior attenuation characteristics despite their extremely compact dimensions. • Because they can be mounted on edge, the ACF and ACH series are ideal for high-density circuit configurations.

Dimensions in mm

Fig. 1 — ACF321825, ACF451832, ACH3218 and ACH4518 Series

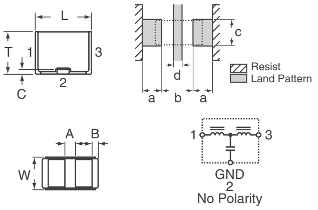

Series	Dimensions (mm)									
	T	L	A	B	C	W	a	b	c	d
ACF321825	2.5	3.2	0.6	.35	0.3	1.8	1.4	2.2	1.94	0.6
ACF451832	3.2	4.5	1	.35	0.4	1.8	1.75	3.5	1.94	1
ACH3218	2.5	3.2	0.6	.35	0.3	1.8	1.4	2.2	1.94	0.6
ACH4518	3.2	4.5	1	.35	0.4	1.8	1.75	3.5	1.94	1

Fig. 2 — ACH32C Series

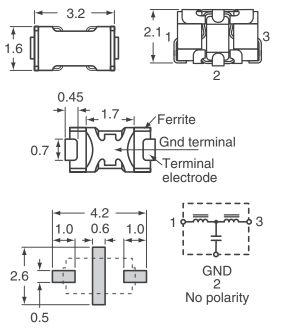

Attenuation Frequency (MHz) Max.	I Max. (A)	Rdc Max. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing* 1,000	TDK Part No.
Fig. 1 — ACF321825 Series, Operating Temperature -25°C ~ 85°C								
17	0.3	0.15	445-2059-1-ND	.51	4.38	20.22	235.95	ACF321825-223-TD01
27	0.3	0.15	445-2060-1-ND	.51	4.38	20.22	235.95	ACF321825-103-TD01
37	0.3	0.15	445-2061-1-ND	.51	4.38	20.22	235.95	ACF321825-682-TD01
45	0.3	0.15	445-2062-1-ND	.51	4.38	20.22	235.95	ACF321825-472-TD01
55	0.3	0.15	445-2063-1-ND	.51	4.38	20.22	235.95	ACF321825-332-TD01
65	0.3	0.15	445-2064-1-ND	.51	4.38	20.22	235.95	ACF321825-222-TD01
80	0.3	0.15	445-2065-1-ND	.51	4.38	20.22	235.95	ACF321825-152-TD01
100	0.3	0.15	445-2066-1-ND	.51	4.38	20.22	235.95	ACF321825-102-TD01
120	0.3	0.15	445-2067-1-ND	.51	4.38	20.22	235.95	ACF321825-681-TD01
145	0.3	0.15	445-2068-1-ND	.51	4.38	20.22	235.95	ACF321825-471-TD01
165	0.3	0.15	445-2069-1-ND	.51	4.38	20.22	235.95	ACF321825-331-TD01
200	0.3	0.15	445-2070-1-ND	.51	4.38	20.22	235.95	ACF321825-221-TD01
240	0.3	0.15	445-2071-1-ND	.51	4.38	20.22	235.95	ACF321825-151-TD01
300	0.3	0.15	445-2072-1-ND	.51	4.38	20.22	235.95	ACF321825-101-TD01
370	0.3	0.15	445-2073-1-ND	.51	4.38	20.22	235.95	ACF321825-680-TD01
450	0.3	0.15	445-2074-1-ND	.51	4.38	20.22	235.95	ACF321825-470-TD01
530	0.3	0.15	445-2075-1-ND	.51	4.38	20.22	235.95	ACF321825-330-TD01
650	0.3	0.15	445-2076-1-ND	.51	4.38	20.22	235.95	ACF321825-220-TD01
Fig. 1 — ACF451832 Series, Operating Temperature -25°C ~ 85°C								
12	0.3	0.15	445-2077-1-ND	.61	5.26	24.27	283.15	ACF451832-333-TD01
15	0.3	0.15	445-2078-1-ND	.61	5.26	24.27	283.15	ACF451832-223-TD01
18	0.3	0.15	445-2079-1-ND	.61	5.26	24.27	283.15	ACF451832-153-TD01
23	0.3	0.15	445-2080-1-ND	.61	5.26	24.27	283.15	ACF451832-103-TD01
35	0.3	0.15	445-2081-1-ND	.61	5.26	24.27	283.15	ACF451832-682-TD01
40	0.3	0.15	445-2082-1-ND	.61	5.26	24.27	283.15	ACF451832-472-TD01
50	0.3	0.15	445-2083-1-ND	.61	5.26	24.27	283.15	ACF451832-332-TD01
60	0.3	0.15	445-2084-1-ND	.61	5.26	24.27	283.15	ACF451832-222-TD01
75	0.3	0.15	445-2085-1-ND	.61	5.26	24.27	283.15	ACF451832-152-TD01
90	0.3	0.15	445-2086-1-ND	.61	5.26	24.27	283.15	ACF451832-102-TD01
105	0.3	0.15	445-2087-1-ND	.61	5.26	24.27	283.15	ACF451832-681-TD01
125	0.3	0.15	445-2088-1-ND	.61	5.26	24.27	283.15	ACF451832-471-TD01
150	0.3	0.15	445-2089-1-ND	.61	5.26	24.27	283.15	ACF451832-331-TD01
190	0.3	0.15	445-2090-1-ND	.61	5.26	24.27	283.15	ACF451832-221-TD01
230	0.3	0.15	445-2091-1-ND	.61	5.26	24.27	283.15	ACF451832-151-TD01
280	0.3	0.15	445-2092-1-ND	.61	5.26	24.27	283.15	ACF451832-101-TD01
340	0.3	0.15	445-2093-1-ND	.61	5.26	24.27	283.15	ACF451832-680-TD01
410	0.3	0.15	445-2094-1-ND	.61	5.26	24.27	283.15	ACF451832-470-TD01
500	0.3	0.15	445-2095-1-ND	.61	5.26	24.27	283.15	ACF451832-330-TD01
600	0.3	0.15	445-2096-1-ND	.61	5.26	24.27	283.15	ACF451832-220-TD01
Fig. 1 — ACH3218 Series, Operating Temperature -25°C ~ 85°C								
17	1.5	0.06	445-2097-1-ND	.51	4.38	20.22	235.95	ACH3218-223-TD01
27	1.5	0.06	445-2098-1-ND	.51	4.38	20.22	235.95	ACH3218-103-TD01
37	1.5	0.06	445-2099-1-ND	.51	4.38	20.22	235.95	ACH3218-682-TD01
45	1.5	0.06	445-2100-1-ND	.51	4.38	20.22	235.95	ACH3218-472-TD01
55	1.5	0.06	445-2101-1-ND	.51	4.38	20.22	235.95	ACH3218-332-TD01
65	1.5	0.06	445-2102-1-ND	.51	4.38	20.22	235.95	ACH3218-222-TD01
80	1.5	0.06	445-2103-1-ND	.51	4.38	20.22	235.95	ACH3218-152-TD01
100	1.5	0.06	445-2104-1-ND	.51	4.38	20.22	235.95	ACH3218-102-TD01
120	1.5	0.06	445-2105-1-ND	.51	4.38	20.22	235.95	ACH3218-681-TD01
145	1.5	0.06	445-2106-1-ND	.51	4.38	20.22	235.95	ACH3218-471-TD01
165	1.5	0.06	445-2107-1-ND	.51	4.38	20.22	235.95	ACH3218-331-TD01
200	1.5	0.06	445-2108-1-ND	.51	4.38	20.22	235.95	ACH3218-221-TD01
240	1.5	0.06	445-2109-1-ND	.51	4.38	20.22	236.00	ACH3218-151-TD01
300	1.5	0.06	445-2110-1-ND	.51	4.38	20.22	235.95	ACH3218-101-TD01
370	1.5	0.06	445-2111-1-ND	.51	4.38	20.22	235.95	ACH3218-680-TD01
450	1.5	0.06	445-2112-1-ND	.51	4.38	20.22	235.95	ACH3218-470-TD01
530	1.5	0.06	445-2113-1-ND	.51	4.38	20.22	235.95	ACH3218-330-TD01
650	1.5	0.06	445-2114-1-ND	.51	4.38	20.22	235.95	ACH3218-220-TD01
Fig. 1 — ACH4518 Series, Operating Temperature -25°C ~ 85°C								
12	2	0.04	445-2115-1-ND	.61	5.26	24.27	283.15	ACH4518-333-TD01
15	2	0.04	445-2116-1-ND	.61	5.26	24.27	283.15	ACH4518-223-TD01
18	2	0.04	445-2117-1-ND	.61	5.26	24.27	283.15	ACH4518-153-TD01
23	2	0.04	445-2118-1-ND	.61	5.26	24.27	283.15	ACH4518-103-TD01
35	2	0.04	445-2119-1-ND	.61	5.26	24.27	283.15	ACH4518-682-TD01
40	2	0.04	445-2120-1-ND	.61	5.26	24.27	—	ACH4518-472-TD01
50	2	0.04	445-2121-1-ND	.61	5.26	24.27	283.15	ACH4518-332-TD01
60	2	0.04	445-2122-1-ND	.61	5.26	24.27	283.15	ACH4518-222-TD01
75	2	0.04	445-2123-1-ND	.61	5.26	24.27	283.15	ACH4518-152-TD01
90	2	0.04	445-2124-1-ND	.61	5.26	24.27	283.15	ACH4518-102-TD01
105	2	0.04	445-2125-1-ND	.61	5.26	24.27	283.15	ACH4518-681-TD01
125	2	0.04	445-2126-1-ND	.61	5.26	24.27	283.15	ACH4518-471-TD01
150	2	0.04	445-2127-1-ND	.61	5.26	24.27	283.00	ACH4518-331-TD01
190	2	0.04	445-2128-1-ND	.61	5.26	24.27	283.15	ACH4518-221-TD01
230	2	0.04	445-2129-1-ND	.61	5.26	24.27	—	ACH4518-151-TD01
280	2	0.04	445-2130-1-ND	.61	5.26	24.27	283.15	ACH4518-101-TD01
340	2	0.04	445-2131-1-ND	.61	5.26	24.27	283.15	ACH4518-680-TD01
410	2	0.04	445-2132-1-ND	.61	5.26	24.27	283.15	ACH4518-470-TD01
500	2	0.04	445-2133-1-ND	.61	5.26	24.27	283.15	ACH4518-330-TD01
600	2	0.04	445-2134-1-ND	.61	5.26	24.27	283.15	ACH4518-220-TD01

* For Tape and Reel part number, change 1-ND to 2-ND.

Guaranteed Frequency Bandwidth (MHz)	Guaranteed Attenuation (dB)	I Max. (A)	Rdc Max. (mΩ)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing* 2,000	TDK Part No.
Fig. 2 — ACH32C Series, Operating Temperature -40°C ~ 125°C									
3.5 ~ 150	-25	6	2	445-2998-1-ND	.56	4.88	22.52	263.00/M	ACH32C-104-T
10 ~ 300	-25	6	2	445-2997-1-ND	.56	4.88	22.52	263.00/M	ACH32C-333-T
30 ~ 300	-25	6	2	445-2996-1-ND	.56	4.88	22.52	263.00/M	ACH32C-103-T
55 ~ 300	-25	6	2	445-2995-1-ND	.56	4.88	22.52	263.00/M	ACH32C-222-T
100 ~ 500	-25	6	2	445-2994-1-ND	.56	4.88	22.52	263.00/M	ACH32C-102-T
200 ~ 800	-25	6	2	445-2993-1-ND	.56	4.88	22.52	263.00/M	ACH32C-331-T
450 ~ 1300	-20	6	2	445-2992-1-ND	.56	4.88	22.52	263.00/M	ACH32C-101-T
650 ~ 2500	-15	6	2	445-2991-1-ND	.56	4.88	22.52	263.00/M	ACH32C-470-T
1300 ~ 2500	-15	6	2	445-2990-1-ND	.56	4.88	22.52	263.00/M	ACH32C-220-T
2000 ~ 5500	-15	6	2	445-2989-1-ND	.56	4.88	22.52	263.00/M	ACH32C-100-T

* For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Signal Line / SMD – MEM2012T Series

Features: • Multilayer chip EMC filter utilizing a T-type circuit • Entirely monolithic structure results in high reliability • Due to closed magnetic circuit architecture, high-density installation becomes possible and crosstalk generation is prevented • Steep attenuation characteristic plot. Highly effective noise suppression • Covers a wide range of frequencies • Operating Temperature Range: -40°C ~ 85°C

Dimensions in mm

Fig. 1

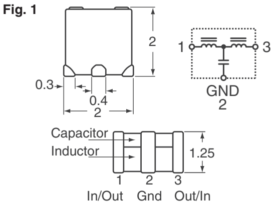

Fig. 2

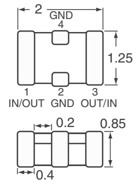

Pad Layout for Fig. 1 and Fig. 2

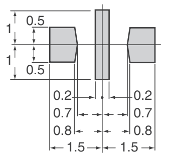

Fig.	Cut-off Freq. (MHz)	I Max. (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Qty.	Pricing*	TDK Part No.
1	10	0.1	445-2135-1-ND	.26	2.28	10.52	1,000	122.69	MEM2012T10R0
	25	0.15	445-2136-1-ND	.26	2.28	10.52	1,000	122.69	MEM2012T25R0
	50	0.15	445-2137-1-ND	.26	2.28	10.52	1,000	122.69	MEM2012T50R0
	75	0.25	445-2138-1-ND	.51	4.38	20.22	1,000	235.95	MEM2012T75R0
	100	0.25	445-2139-1-ND	.26	2.28	10.52	1,000	122.69	MEM2012T101R
2	25	0.1	445-3357-1-ND	.25	2.17	10.01	4,000	117.00/M	MEM2012T25R0T0S1
	35	0.1	445-3358-1-ND	.25	2.17	10.01	4,000	117.00/M	MEM2012T35R0T0S1
	50	0.1	445-3359-1-ND	.25	2.17	10.01	4,000	117.00/M	MEM2012T50R0T0S1
	100	0.25	445-3360-1-ND	.25	2.17	10.01	4,000	117.00/M	MEM2012T101RT0S1
	200	0.25	445-3361-1-ND	.25	2.17	10.01	4,000	117.00/M	MEM2012T201RT0S1

* For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Signal Line / SMD – MEM2012D Series

Dimensions in mm

This chip type EMC filter eliminates the noise component from a communication line. This noise component can be eliminated by inserting these products in series with the communication line. In comparison to earlier multilayer chip EMC filters, signal wave-form distortion is low after the signal has passed through the filter. Therefore this filter can be used for high speed pulse signal circuits and wide band wireless RGB circuits.

Features: • Small size • Steep attenuation characteristic • Low distortion of signal after passing through filter • Capable of reflow soldering

Applications: • PCs • CRTs • LC display panels • Printers • Game machines • DVD equipment

Operating Temperature Range: -40°C ~ 85°C

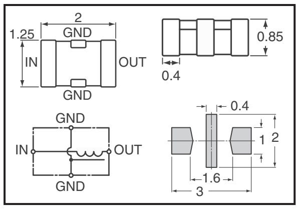

Cut-off Frequency (MHz)	I Maximum (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing* 4,000	TDK Part No.
200	0.2	445-3353-1-ND	.33	2.89	13.34	156.00/M	MEM2012D201R
300	0.2	445-3354-1-ND	.33	2.89	13.34	156.00/M	MEM2012D301R
400	0.2	445-3355-1-ND	.33	2.89	13.34	156.00/M	MEM2012D401R
500	0.2	445-3356-1-ND	.33	2.89	13.34	156.00/M	MEM2012D501R

* For Tape and Reel part number, change 1-ND to 2-ND.

TDK

3-Terminal Filters for Wide-Band / SMD – MEM2012P Series

Features:
- Multilayer chip EMC filter that is small and low-profile due to the use of a π-type circuit • Entirely monolithic structure results in high reliability • Due to closed magnetic circuit architecture, high-density installation becomes possible, and crosstalk generation is prevented. • Steep attenuation characteristic plot, highly effective noise suppression • Covers a wide range of frequencies • π-type circuit with 1 coil / 2 capacitors construction

Applications:
- Computers • Computer peripherals • VCRs • TVs • Car audio equipment • Printers • Game machines

Operating Temperature Range: -40°C ~ 85°C

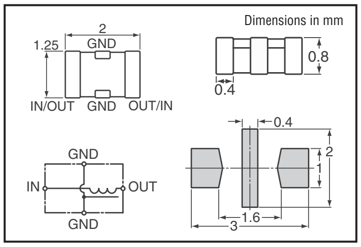

Cut-off Frequency (MHz)	I Maximum (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing* 4,000	TDK Part No.
10	0.2	445-3362-1-ND	.33	2.89	13.34	156.00/M	MEM2012P10R0
25	0.2	445-3363-1-ND	.33	2.89	13.34	156.00/M	MEM2012P25R0
50	0.2	445-3364-1-ND	.33	2.89	13.34	156.00/M	MEM2012P50R0
75	0.2	445-3365-1-ND	.33	2.89	13.34	156.00/M	MEM2012P75R0
100	0.2	445-3366-1-ND	.33	2.89	13.34	156.00/M	MEM2012P101R

* For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Wide-Band / SMD – MEM2012TC Series

Features: • Multilayer chip EMC filter utilizing a T-type circuit • Entirely monolithic structure results in high reliability • Due to closed magnetic circuit architecture, high-density installation becomes possible, and crosstalk generation is prevented • Steep attenuation characteristic plot. Highly effective noise suppression • Covers a wide range of frequencies • Combines a bead inductor with a through-type capacitor

Applications: • Computer and computer peripherals • VCRs • TVs • Car audio equipment • Printers • Game machines

Operating Temperature Range: -40°C ~ 85°C

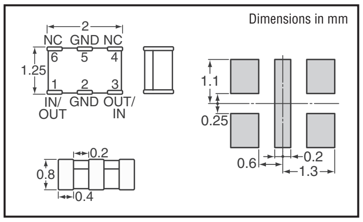

Cap. (pF) ±30%	I Maximum (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing* 4,000	TDK Part No.
10	1	445-3367-1-ND	.33	2.89	13.34	156.00/M	MEM2012TC100
22	1	445-3368-1-ND	.33	2.89	13.34	156.00/M	MEM2012TC220
47	1	445-3369-1-ND	.33	2.89	13.34	156.00/M	MEM2012TC470
100	1	445-3370-1-ND	.33	2.89	13.34	156.00/M	MEM2012TC101
150	1	445-3371-1-ND	.33	2.89	13.34	156.00/M	MEM2012TC151

* For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Wide-Band / SMD – MEM2012W Series

These SMD Type 3-terminal filters are used for elimination of high frequency noise from signal lines. Due to a higher cutoff frequency than earlier SMD type 3-terminal filters and steep attenuation characteristics, these filters are effective for elimination of a high level of high frequency noise.

Features:
- Small size • Entirely monolithic architecture

Applications:
- PCs • Liquid crystal panels • Printers • Game machines • Cellular phones • Digital video cameras

Operating Temperature Range: -40°C ~ 85°C

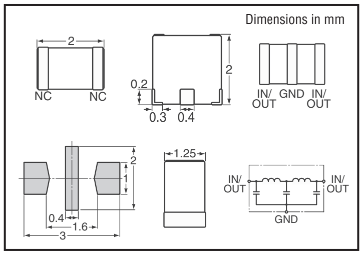

Cut-off Frequency (MHz)	I Maximum (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing* 1,000	TDK Part No.
120	0.1	445-3372-1-ND	.42	3.61	16.68	195.00	MEM2012W121R
150	0.1	445-3373-1-ND	.42	3.61	16.68	195.00	MEM2012W151R
180	0.1	445-3374-1-ND	.42	3.61	16.68	195.00	MEM2012W181R
210	0.1	445-3375-1-ND	.42	3.61	16.68	195.00	MEM2012W211R
240	0.1	445-3376-1-ND	.42	3.61	16.68	195.00	MEM2012W241R

* For Tape and Reel part number, change 1-ND to 2-ND.

Common Mode Choke Coils for Signal Line / SMD – ZJYS Series

Features:
- A common mode filter for distortion-free noise removal from transmitted signals. Optimized for transmission of high quality signals
- Best filter for countering the common mode noise resulting from data signal processing by PCs, phone equipment, etc
- Due to a maximum current tolerance of 5A, can also be used to counter power line noise
- The ZJYS81R5-2PL is a high inductance common mode filter designed to use with a CAN-BUS

Fig. 1 — ZJYS51R5-2P, -2PB, -2PL

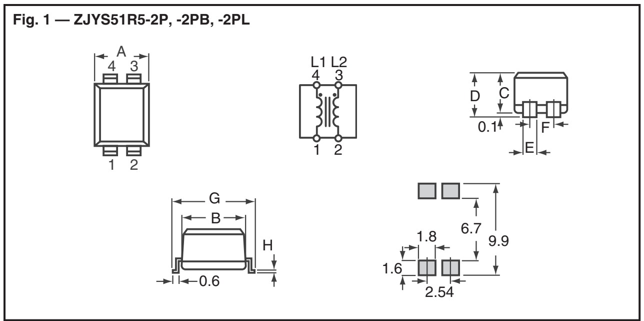

Fig. 2 — ZJYS51R5-4P, -M4PA

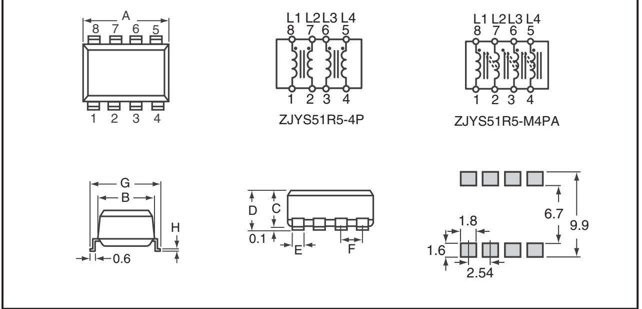

Fig. 3 — ZJYS81R5-2PL25-G01, -2PL51-G01

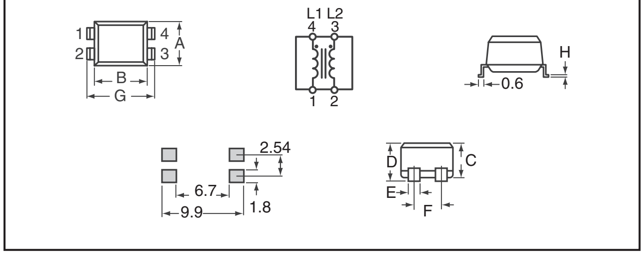

Fig.	Dimensions (mm) A (Max.)	B (Max.)	C (Max.)	D (Max.)	E	F	G (Max.)	H	TDK Part No.
1	5.5	6.86	4.57	5.08	1.3	2.54	9	0.25	ZJYS51R5-2P, -2PB, -2PL
2	10.5	6.86	4.57	5.08	1.3	2.54	9	0.25	ZJYS51R5-4P, -M4PA
3	6	7.1	4.5	5	1.3	2.54	9	0.25	ZJYS81R5-2PL25-G01, -2PL51-G01

Minimum Impedance Ω (MHz)	Rated Current I (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel* Qty.	Pricing	TDK Part No.
Fig. 1 — 50V, Operating Temperature -25°C ~ 85°C								
200 (20 ~ 300)	2	445-2219-1-ND	1.31	1.14	1.06	1,500	613.48/M	ZJYS51R5-2PT-01
200 (20 ~ 300)	2	445-2220-1-ND	1.52	1.32	1.22	1,500	707.86/M	ZJYS51R5-2PBT-01
200 (20 ~ 300)	2	445-2221-1-ND	1.42	1.23	1.14	1,500	660.66/M	ZJYS51R5-2PLT-01
Fig. 2 — 50V, Operating Temperature -25°C ~ 85°C								
200 (20 ~ 300)	2	445-2224-1-ND	2.22	1.93	1.78	1,000	1038.19	ZJYS51R5-4PT-01
200 (20 ~ 300)	0.5	445-2225-1-ND	2.22	1.93	1.78	1,000	1038.19	ZJYS51R5-M4PAT-01
Fig. 3 — 80V, Operating Temperature -40°C ~ 125°C								
600 (10 ~ 100)	0.5	445-2222-1-ND	1.52	1.32	1.22	1,500	707.86/M	ZJYS81R5-2PL25T-G01
1000 (10 ~ 100)	0.5	445-2223-1-ND	1.52	1.32	1.22	1,500	707.86/M	ZJYS81R5-2PL51T-G01

* For Tape and Reel part number, change 1-ND to 2-ND.

TDK Common Mode Choke Coils for DC Power and Signal Line / SMD

Features: • A chip-type common mode filter for large current applications • Common mode impedance surpasses 80 ~ 1000Ω at 100MHz • Noise is greatly suppressed • Height and size have been considered, resulting in a compact and light weight choke coil • Applicable for the miniaturization required to reduce the size and weight of portable equipment

RoHS COMPLIANT

Fig. 1

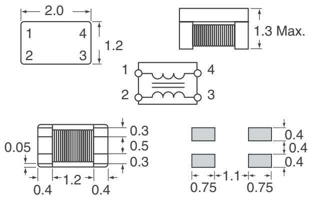

Fig. 2

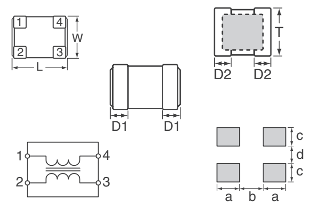

Fig. 3

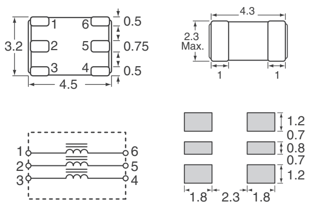

Fig. 4

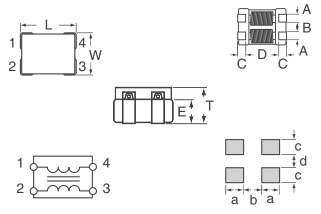

Fig.	L (mm)	W (mm)	T (mm) Max.	D1 (mm)	D2 (mm)	A (mm)	B (mm)	C (mm)	D (mm) Type	E (mm)	a (mm)	b (mm)	c (mm)	d (mm)	TDK Part No. Family
2	3.2	2.5	2.3	0.7	0.65	—	—	—	—	—	1.5	1.6	1.4	1.1	ACM3225-xxx-2P
	4.5	3.2	3.0	1	1	—	—	—	—	—	1.8	2.3	1.75	1.1	ACM4532-xxx-2P
4	7.0	6.0	3.5	—	—	1.5	1.5	1.5	4.0	2.2	2.5	4.0	1.5	1.5	ACM7060-xxx-2PL
	9.0	7.0	4.5	—	—	1.5	2.0	1.5	6.0	2.9	2.5	6.0	1.5	2.0	ACM9070-701-2PL
	12.0	11.0	6.0	—	—	2.7	2.5	2.3	7.4	3.8	3.2	7.6	2.7	2.5	ACM1211-xxx-2PL
	15.0	13.0	6.0	—	—	2.7	3.8	2.3	10.4	3.8	3.3	10.4	2.7	3.8	ACM1513-551-2PL

Fig.	Typical Impedance @ 100MHz (Ω)	Max. DC Resistance (Ω)	Max. Rated Current Idc (A)	No. of Lines	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel* Qty.	Pricing	TDK Part No.
ACM Series											
1	90	0.19	0.4	2	445-2207-1-ND	.57	.50	.46	2,000	264.27/M	ACM2012-900-2P-T
	120	0.22	0.37	2	445-2208-1-ND	.57	.50	.46	2,000	264.27/M	ACM2012-121-2P-T000
	200	0.25	0.35	2	445-2209-1-ND	.57	.50	.46	2,000	264.27/M	ACM2012-201-2P-T000
	360	0.5	0.22	2	445-2210-1-ND	.57	.50	.46	2,000	264.27/M	ACM2012-361-2P-T000
2	80	0.15	0.4	2	445-2030-1-ND	.97	.85	.78	1,000	453.02	ACM3225-800-2P-T001
	270	0.3	0.3	2	445-2032-1-ND	.97	.85	.78	1,000	453.02	ACM3225-271-2P-T001
	1000	0.5	0.2	2	445-2033-1-ND	.97	.85	.78	1,000	453.02	ACM3225-102-2P-T001
	600	0.2	1.0	2	445-2035-1-ND	.97	.85	.78	1,000	453.02	ACM3225-601-2P-T001
	600	0.1	1.5	2	445-2036-1-ND	1.05	.92	.85	500	245.39	ACM4532-601-2P-T001
	800	0.1	1.0	2	445-2037-1-ND	1.05	.92	.85	500	245.39	ACM4532-801-2P-T001
3	1000	0.6	0.2	3	445-2034-1-ND	1.05	.92	.85	500	245.39	ACM4532-102-3P
4	300	0.01	5	2	445-2214-1-ND	1.58	1.37	1.27	1,500	736.18/M	ACM7060-301-2PL-TL
	700	0.015	4	2	445-2215-1-ND	1.58	1.37	1.27	1,500	736.18/M	ACM7060-701-2PL-TL
	700	0.01	5	2	445-2216-1-ND	1.58	1.37	1.27	800	588.94	ACM9070-701-2PL-TL
	700	0.006	8	2	445-2212-1-ND	2.22	1.93	1.78	500	519.09	ACM1211-701-2PL-TL
	1000	0.014	6	2	445-2213-1-ND	2.22	1.93	1.78	500	519.09	ACM1211-102-2PL-TL
	550	0.004	10	2	445-2211-1-ND	2.63	2.28	2.11	500	613.48	ACM1513-551-2PL-TL
5	300	0.35	0.4	2	445-2966-1-ND	.79	.69	.64	2,000	370.00/M	ACM2520-301-2P
	450	0.4	0.35	2	445-2967-1-ND	.79	.69	.64	2,000	370.00/M	ACM2520-451-2P
	600	0.45	0.3	2	445-2968-1-ND	.79	.69	.64	2,000	370.00/M	ACM2520-601-2P-T
	1000	0.9	0.2	2	445-2969-1-ND	.79	.69	.64	2,000	370.00/M	ACM2520-102-2P
TCM Series											
6	65	1.5	0.10	2	445-2970-1-ND	.58	.51	.47	4,000	272.00/M	TCM1210-650-2P
	90	1.75	0.10	2	445-2971-1-ND	.58	.51	.47	4,000	272.00/M	TCM1210-900-2P-T
	200	2.7	0.10	2	445-2972-1-ND	.58	.51	.47	4,000	272.00/M	TCM1210-201-2P-T
	300	3.5	0.05	2	445-2973-1-ND	.58	.51	.47	4,000	272.00/M	TCM1210-301-2P-T
7	65	1.5	0.10	4	445-2974-1-ND	.94	.82	.76	4,000	438.00/M	TCM2010-650-4P
	100	1.5	0.10	4	445-2975-1-ND	.94	.82	.76	4,000	438.00/M	TCM2010-101-4P-T
	200	2.0	0.10	4	445-2976-1-ND	.94	.82	.76	4,000	438.00/M	TCM2010-201-4P-T
	260	5.0	0.04	4	445-2977-1-ND	.94	.82	.76	4,000	438.00/M	TCM2010-261-4P-T

* For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 5

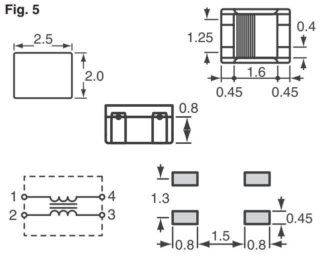

Fig. 6

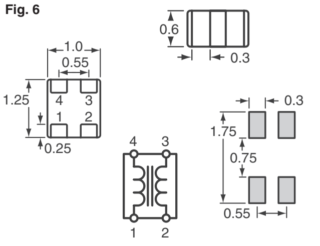

Fig. 7

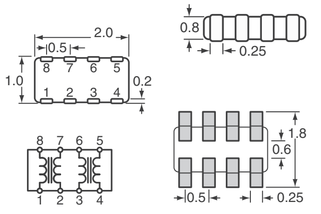

Clamp Filters for Cable

RoHS COMPLIANT

Features: • Unique plastic case ensures simple, convenient installation and includes a self-holding mechanism to prevent slippage on cables • Ferrite core provides excellent absorption of high-frequency EMC • Highly effective as countermeasure against common mode EMC without adverse effect on signal quality • Large core size prevents saturation during large signal surges

Fig.	Dimensions (mm) A	B	ØC	ØD	E	Minimum Impedance @ 50 ~ 500MHz (Ω)	Outer Cable Diameter (mm)	Case Color	Digi-Key Part No.	Price Each 1	10	50	100	TDK Part No.
ZCAT Type														
1	22	18	7	15	—	35	7 Max.	Gray	445-2040-ND	1.09	.90	.78	.70	ZCAT1518-0730
	22	18	7	15	—	35	7 Max.	Black	445-2041-ND	1.09	.90	.78	.70	ZCAT1518-0730-BK
	21	17	9	20	—	35	9 Max.	Gray	445-2044-ND	1.29	1.07	.93	.83	ZCAT2017-0930
	21	17	9	20	—	35	9 Max.	Black	445-2045-ND	1.29	1.07	.93	.83	ZCAT2017-0930-BK
	36	32	11	20.5	—	50	11 Max.	Gray	445-2048-ND	1.16	.96	.83	.75	ZCAT2132-1130
	36	32	11	20.5	—	50	11 Max.	Black	445-2049-ND	1.16	.96	.83	.75	ZCAT2132-1130-BK
	39	34	13	30	—	100	13 Max.	Gray	445-2054-ND	2.55	2.11	1.82	1.64	ZCAT3035-1330
	39	34	13	30	—	100	13 Max.	Black	445-2055-ND	2.55	2.11	1.82	1.64	ZCAT3035-1330-BK
ZCAT-A Type														
2	25	20	5	12.8	11.2	50	3 ~ 5	Gray	445-2038-ND	.71	.60	.51	.46	ZCAT1325-0530A
	25	20	5	12.8	11.2	50	3 ~ 5	Black	445-2039-ND	.71	.60	.51	.46	ZCAT1325-0530A-BK
	30	23	7	16.5	15	50	4 ~ 7	Gray	445-2042-ND	1.22	1.02	.88	.79	ZCAT1730-0730A
	30	23	7	16.5	15	50	4 ~ 7	Black	445-2043-ND	1.22	1.02	.88	.79	ZCAT1730-0730A-BK
	35	28	9	19.5	17.4	80	6 ~ 9	Gray	445-2046-ND	1.22	1.02	.88	.79	ZCAT2035-0930A
	35	28	9	19.5	17.4	80	6 ~ 9	Black	445-2047-ND	1.22	1.02	.88	.79	ZCAT2035-0930A-BK
	35	28	10	21.5	20	80	8 ~ 10	Gray	445-2050-ND	1.60	1.33	1.14	1.03	ZCAT2235-1030A
	35	28	10	21.5	20	80	8 ~ 10	Black	445-2051-ND	1.60	1.33	1.14	1.03	ZCAT2235-1030A-BK
	36	29	13	23.5	22	50	10 ~ 13	Gray	445-2052-ND	2.04	1.69	1.46	1.31	ZCAT2436-1330A
	36	29	13	23.5	22	50	10 ~ 13	Black	445-2053-ND	2.04	1.69	1.46	1.31	ZCAT2436-1330A-BK
ZCAT-D Type														
3	45.5	24.5	34	12	—	35	26 Conductor Flat	Black	445-2057-ND	4.07	3.38	2.91	2.62	ZCAT4625-3430D-BK
	67.5	18.5	52	16	—	35	40 Conductor Flat	Black	445-2058-ND	6.79	5.63	4.85	4.37	ZCAT6819-5230D-BK

Fig. 1 — ZCAT Type

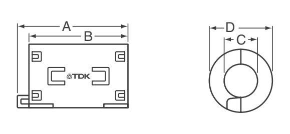

Fig. 2 — ZCAT-A Type

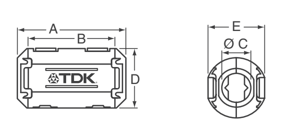

Fig. 3 — ZCAT-D Type

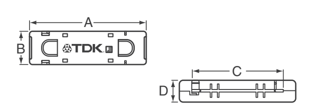

Applicable Cable Thickness 1.3mm Max.

TAIYO YUDEN High Current SMT Ferrite Chip Beads

Features:

- Large withstanding voltage • Resistance to high energy • High reliability

Applications:

- Automotive • Computer Peripherals • Differential transmission line on USB and similar products • Mobile devices which require lower power consumption • Provides waveform correction of digital signals and high frequency noise countermeasures in various types of digital equipment • Works well with power line radiated and conducted noise

Taiyo Yuden's Type Breakout:

- **HS:** For Broadband applications
- **HM:** For upper MHz range applications
- **HL:** For GHz range applications

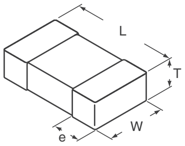

Size Code	L	W	T	e
FBMH Series				
0603	1.6±0.1	0.8±0.1	0.8±0.1	0.3±0.15
0805	2.0±0.2	1.25±0.2	0.85±0.2	0.5±0.3
0806	2.0±0.2	1.6±0.2	1.6±0.2	0.5±0.3
1206	3.2±0.3	1.6±0.2	1.6±0.2	0.5±0.3
1210	3.2±0.3	2.5±0.3	2.5±0.3	0.5±0.3
1806	4.5±0.3	1.6±0.2	1.6±0.2	0.5±0.3
1810	4.5±0.4	2.5±0.3	2.5±0.3	0.9±0.6
1812	4.5±0.4	3.2±0.3	3.2±0.3	0.9±0.6
FBMJ Series				
0603	1.6±0.2	0.8±0.2	0.8±0.2	0.3±0.2
0805	2.0±0.2	1.25±0.2	0.85±0.2	0.5±0.3
1206	3.2±0.3	1.6±0.2	1.1±0.2	0.5±0.3
1806	4.5±0.3	1.6±0.2	1.1±0.2	0.5±0.3

Dimensions - mm

Size Code	Type	Impedence (Ω) @ 100MHz	Maximum Rated Current (A)	Maximum DC Resistance (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Taiyo Yuden Part No.
FBMH Series												
0603	HL	30	2.5	0.028	587-1733-1-ND	.71	5.70	21.38	587-1733-2-ND	4,000	33.00/M	FBMH1608HL300-T
	HM	47	3.5	0.020	587-1743-1-ND	.71	5.70	21.38	587-1743-2-ND	4,000	33.00/M	FBMH1608HM470-T
	HL	60	1.8	0.045	587-1736-1-ND	.71	5.70	21.38	587-1736-2-ND	4,000	33.00/M	FBMH1608HL600-T
	HM	60	3.0	0.025	587-1745-1-ND	.71	5.70	21.38	587-1745-2-ND	4,000	33.00/M	FBMH1608HM600-T
	HM	100	2.0	0.035	587-1738-1-ND	.71	5.70	21.38	587-1738-2-ND	4,000	33.00/M	FBMH1608HM101-T
	HL	120	.9	0.130	587-1731-1-ND	.71	5.70	21.38	587-1731-2-ND	4,000	33.00/M	FBMH1608HL121-T
	HM	150	2.0	0.050	587-1740-1-ND	.71	5.70	21.38	587-1740-2-ND	4,000	33.00/M	FBMH1608HM151-T
	HL	220	.7	0.170	587-1732-1-ND	.71	5.70	21.38	587-1732-2-ND	4,000	33.00/M	FBMH1608HL221-T
	HM	220	1.5	0.070	587-1741-1-ND	.71	5.70	21.38	587-1741-2-ND	4,000	33.00/M	FBMH1608HM221-T
	HL	330	.6	0.210	587-1734-1-ND	.71	5.70	21.38	587-1734-2-ND	4,000	33.00/M	FBMH1608HL331-T
	HM	330	.9	0.130	587-1742-1-ND	.71	5.70	21.38	587-1742-2-ND	4,000	33.00/M	FBMH1608HM331-T
	HL	470	.5	0.350	587-1735-1-ND	.71	5.70	21.38	587-1735-2-ND	4,000	33.00/M	FBMH1608HL471-T
	HM	470	.7	0.150	587-1744-1-ND	.71	5.70	21.38	587-1744-2-ND	4,000	33.00/M	FBMH1608HM471-T
	HL	600	.4	0.45	587-1737-1-ND	.71	5.70	21.38	587-1737-2-ND	4,000	33.00/M	FBMH1608HL601-T
	HM	600	.7	0.170	587-1746-1-ND	.71	5.70	21.38	587-1746-2-ND	4,000	33.00/M	FBMH1608HM601-T
	HM	1000	.3	0.350	587-1739-1-ND	.71	5.70	21.38	587-1739-2-ND	4,000	33.00/M	FBMH1608HM102-T
0805	HM	80	2.7	0.025	587-1750-1-ND	.94	7.50	28.13	587-1750-2-ND	4,000	44.00/M	FBMH2012HM800-T
	HM	120	2.5	0.032	587-1747-1-ND	.94	7.50	28.13	587-1747-2-ND	4,000	44.00/M	FBMH2012HM121-T
	HM	220	2.0	0.060	587-1748-1-ND	.94	7.50	28.13	587-1748-2-ND	4,000	44.00/M	FBMH2012HM221-T
	HM	330	1.8	0.080	587-1749-1-ND	.94	7.50	28.13	587-1749-2-ND	4,000	44.00/M	FBMH2012HM331-T
0806	HM	250	2.0	0.050	587-1751-1-ND	1.13	9.00	33.75	587-1751-2-ND	2,000	53.00/M	FBMH2016HM251NT
1206	HM	500	2.0	0.070	587-1752-1-ND	1.88	15.00	56.25	587-1752-2-ND	2,000	88.00/M	FBMH3216HM501NT
1210	HM	600	3.0	0.042	587-1755-1-ND	3.56	28.50	106.88	587-1755-2-ND	1,000	166.00	FBMH3225HM601NT
	HM	1000	2.0	0.100	587-1753-1-ND	3.56	28.50	106.88	587-1753-2-ND	1,000	166.00	FBMH3225HM102NT
	HM	2000	1.2	0.130	587-1754-1-ND	3.56	28.50	106.88	587-1754-2-ND	1,000	166.00	FBMH3225HM202NT
1806	HM	850	1.5	0.100	587-1756-1-ND	3.75	30.00	112.50	587-1756-2-ND	2,000	175.00/M	FBMH4516HM851NT
1810	HM	1000	3.0	0.060	587-1757-1-ND	6.38	51.00	191.25	587-1757-2-ND	1,000	298.00	FBMH4525HM102NT
	HM	1600	2.0	0.130	587-1758-1-ND	6.38	51.00	191.25	587-1758-2-ND	1,000	298.00	FBMH4525HM162NT
1812	HM	680	4.0	0.028	587-1761-1-ND	5.14	41.10	154.13	587-1761-2-ND	2,000	240.00/M	FBMH4532HM681-T
	HM	1300	3.0	0.060	587-1759-1-ND	5.14	41.10	154.13	587-1759-2-ND	2,000	240.00/M	FBMH4532HM132-T
	HM	2000	1.3	0.130	587-1760-1-ND	5.14	41.10	154.13	587-1760-2-ND	2,000	240.00/M	FBMH4532HM202-T
FBMJ Series												
0603	HM	23	4.0	0.007	587-1762-1-ND	.94	7.50	28.13	587-1762-2-ND	4,000	44.00/M	FBMJ1608HM230NT
	HS	28	4.0	0.007	587-1763-1-ND	.94	7.50	28.13	587-1763-2-ND	4,000	44.00/M	FBMJ1608HS280NT
0805	HL	8	2.0	0.010	587-1764-1-ND	.75	6.00	22.50	587-1764-2-ND	4,000	35.00/M	FBMJ2125HL8R0NT
	HM	21	6.0	0.004	587-1765-1-ND	.75	6.00	22.50	587-1765-2-ND	4,000	35.00/M	FBMJ2125HM210NT
	HS	25	6.0	0.004	587-1767-1-ND	.75	6.00	22.50	587-1767-2-ND	4,000	35.00/M	FBMJ2125HS250NT
	HM	33	4.0	0.008	587-1766-1-ND	.75	6.00	22.50	587-1766-2-ND	4,000	35.00/M	FBMJ2125HM330-T
	HS	42	4.0	0.008	587-1768-1-ND	.75	6.00	22.50	587-1768-2-ND	4,000	35.00/M	FBMJ2125HS420-T
1206	HM	38	6.0	0.005	587-1769-1-ND	1.13	9.00	33.75	587-1769-2-ND	2,000	53.00/M	FBMJ3216HM380NT
	HS	48	6.0	0.005	587-1771-1-ND	1.13	9.00	33.75	587-1771-2-ND	2,000	53.00/M	FBMJ3216HS480NT
	HM	60	4.0	0.010	587-1770-1-ND	1.13	9.00	33.75	587-1770-2-ND	2,000	53.00/M	FBMJ3216HM600-T
	HS	80	4.0	0.010	587-1772-1-ND	1.13	9.00	33.75	587-1772-2-ND	2,000	53.00/M	FBMJ3216HS800-T
1806	HM	56	6.0	0.007	587-1773-1-ND	1.31	10.50	39.38	587-1773-2-ND	2,000	61.00/M	FBMJ4516HM560NT
	HS	72	6.0	0.007	587-1776-1-ND	1.31	10.50	39.38	587-1776-2-ND	2,000	61.00/M	FBMJ4516HS720NT
	HM	90	4.0	0.014	587-1774-1-ND	1.31	10.50	39.38	587-1774-2-ND	2,000	61.00/M	FBMJ4516HM900-T
	HS	110	4.0	0.014	587-1775-1-ND	1.31	10.50	39.38	587-1775-2-ND	2,000	61.00/M	FBMJ4516HS111-T

Multilayer Ferrite Chip Beads

Features: • Internal silver printed layer creates a closed circuit which acts as a magnetic shield minimizing heat generation and crosstalk • No need for grounding provides greater circuit design flexibility • Several material types and a broad range of impedance values provide noise countermeasures for various applications

Applications: • High frequency noise countermeasure in personal computers, digital cameras and other information system products • For use on digital product clock lines and general signal lines • Radiated noise suppression in computer or printer interfaces and harness connectors • Noise suppression in video and other AV products • Prevents interference between circuits in cellular phones • Due to the closed internal circuit which acts as a magnetic shield, the TS material is extremely effective as a noise filter on LSI power supply lines where downsizing of components is needed

Taiyo Yuden's Type Breakout:

- **HS:** Suppresses the XL component. Helps stop the reduction of the wave-form integrity. (digital wave-form overshoot, etc.)
- **HM:** Increases the Z characteristic sharply above 20MHz and is applicable for radiated noise in the 100MHz ~ 300MHz range. Especially effective on video signal lines.
- **LL:** Designed as a noise countermeasure for the 200MHz ~ 500MHz range where the rise of the Z component is in the high frequency area.
- **LM:** Intended for noise suppression around 200MHz. Effectively increases attenuation.
- **HW:** The best material in the BK Series to suppress the XL component and stop the reduction of the wave-form integrity while maintaining attenuation in the high frequency area.
- **TS:** Reduced DC resistance version for noise countermeasures around LSI power supplies.

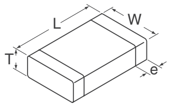

Size Code	Dimensions - mm L	W	e	T
0201	0.60±0.03	0.30±0.03	0.15±0.05	0.3
0402	1.00±0.05	0.50±0.05	0.25±0.10	0.5
0603	1.6±0.15	0.8±0.15	0.3±0.2	0.8
0805 (≤ 1500Ω)	2.0±0.2	1.25±0.2	0.5±0.3	0.85
0805 (≥1800Ω)	2.0±0.2	1.25±0.2	0.5±0.3	1.25

Size Code	Type	Imped-ance (Ω) @ 100MHz	Max. Rated Cur-rent (A)	Max. DC Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	Tape and Reel‡ Qty.	Pricing	Taiyo Yuden Part No.
BK Series										
0201	LL	10	0.2	0.25	587-1831-1-ND	.86	3.74	15,000	39.00/M	BK0603LL100-T
	HS	22	0.5	0.065	587-1826-1-ND	.86	3.74	15,000	39.00/M	BK0603HS220-T
	LL	22	0.2	0.45	587-1832-1-ND	.86	3.74	15,000	39.00/M	BK0603LL220-T
	HS	33	0.5	0.070	587-1828-1-ND	.86	3.74	15,000	39.00/M	BK0603HS330-T
	LL	33	0.15	0.55	587-1833-1-ND	.86	3.74	15,000	39.00/M	BK0603LL330-T
	LL	47	0.15	0.70	587-1834-1-ND	.86	3.74	15,000	39.00/M	BK0603LL470-T
	HM	60	0.2	0.25	587-1824-1-ND	.86	3.74	15,000	39.00/M	BK0603HM600-T
	HS	80	0.2	0.40	587-1830-1-ND	.86	3.74	15,000	39.00/M	BK0603HS800-T
	HM	120	0.2	0.40	587-1821-1-ND	.86	3.74	15,000	39.00/M	BK0603HM121-T
	HS	120	0.2	0.45	587-1825-1-ND	.86	3.74	15,000	39.00/M	BK0603HS121-T
0201	HM	240	0.2	0.80	587-1822-1-ND	.86	3.74	15,000	39.00/M	BK0603HM241-T
	HS	240	0.2	0.65	587-1827-1-ND	.86	3.74	15,000	39.00/M	BK0603HS241-T
	HM	470	0.1	1.05	587-1823-1-ND	.86	3.74	15,000	39.00/M	BK0603HM471-T
	HS	600	0.15	1.20	587-1829-1-ND	.86	3.74	15,000	39.00/M	BK0603HS601-T
0402	HS	10	1.0	0.03	587-1840-1-ND†	.45	1.95	10,000	21.00/M	BK1005HS100-T
	LL	10	0.5	0.11	587-1853-1-ND†	.45	1.95	10,000	21.00/M	BK1005LL100-T
	LL	22	0.4	0.18	587-1856-1-ND†	.45	1.95	10,000	21.00/M	BK1005LL220-T
	HS	33	0.7	0.06	587-1844-1-ND†	.45	1.95	10,000	21.00/M	BK1005HS330-T
	LL	33	0.4	0.25	587-1858-1-ND†	.45	1.95	10,000	21.00/M	BK1005LL330-T
	LL	47	0.35	0.33	587-1859-1-ND†	.45	1.95	10,000	21.00/M	BK1005LL470-T

‡ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

TAIYO YUDEN Multilayer Ferrite Chip Beads *(Cont.)*

Size Code	Type	Impedance (Ω) @ 100MHz	Max. Rated Current (A)	Max. DC Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel‡		Taiyo Yuden Part No.
						10	50	Qty.	Pricing	
0402	HS	68	0.7	0.1	587-1847-1-ND†	.45	1.95	10,000	21.00/M	BK1005HS680-T
	HW	68	0.5	0.17	587-1852-1-ND†	.45	1.95	10,000	21.00/M	BK1005HW680-T
	LL	68	0.4	0.31	587-1860-1-ND†	.45	1.95	10,000	21.00/M	BK1005LL680-T
	HS	80	0.7	0.1	587-1820-1-ND	.45	1.95	10,000	21.00/M	BK1005HS800-T
	HM	120	0.3	0.18	587-1836-1-ND†	.45	1.95	10,000	21.00/M	BK1005HM121-T
	HS	120	0.5	0.2	587-1842-1-ND†	.45	1.95	10,000	21.00/M	BK1005HS121-T
	HW	120	0.45	0.24	587-1848-1-ND†	.45	1.95	10,000	21.00/M	BK1005HW121-T
	LL	120	0.35	0.45	587-1854-1-ND†	.45	1.95	10,000	21.00/M	BK1005LL121-T
	LL	180	0.3	0.5	587-1855-1-ND†	.45	1.95	10,000	21.00/M	BK1005LL181-T
	HM	240	0.3	0.3	587-1837-1-ND†	.45	1.95	10,000	21.00/M	BK1005HM241-T
	HS	240	0.4	0.3	587-1843-1-ND†	.45	1.95	10,000	21.00/M	BK1005HS241-T
	HW	240	0.4	0.31	587-1849-1-ND†	.45	1.95	10,000	21.00/M	BK1005HW241-T
	LL	240	0.25	0.7	587-1857-1-ND†	.45	1.95	10,000	21.00/M	BK1005LL241-T
	HS	430	0.35	0.45	587-1845-1-ND	.45	1.95	10,000	21.00/M	BK1005HS431-T
	HW	430	0.35	0.5	587-1850-1-ND†	.45	1.95	10,000	21.00/M	BK1005HW431-T
	HM	470	0.25	0.45	587-1838-1-ND	.45	1.95	10,000	21.00/M	BK1005HM471-T
	HM	600	0.25	0.5	587-1839-1-ND	.45	1.95	10,000	21.00/M	BK1005HM601-T
	HS	600	0.3	0.55	587-1846-1-ND	.45	1.95	10,000	21.00/M	BK1005HS601-T
	HW	600	0.3	0.6	587-1851-1-ND	.45	1.95	10,000	21.00/M	BK1005HW601-T
	HM	1000	0.15	0.7	587-1835-1-ND	.45	1.95	10,000	21.00/M	BK1005HM102-T
	HS	1000	0.3	0.58	587-1841-1-ND	.45	1.95	10,000	21.00/M	BK1005HS102-T
	LM	1800	0.12	0.9	587-1861-1-ND	.45	1.95	10,000	21.00/M	BK1005LM182-T
0603	HS	22	1.5	0.05	587-1869-1-ND	.41	1.79	4,000	19.00/M	BK1608HS220-T
	LL	30	0.5	0.2	587-1883-1-ND	.41	1.79	4,000	19.00/M	BK1608LL300-T
	HS	33	1.2	0.08	587-1871-1-ND	.41	1.79	4,000	19.00/M	BK1608HS330-T
	HS	47	0.9	0.1	587-1872-1-ND	.41	1.79	4,000	19.00/M	BK1608HS470-T
	LL	47	0.4	0.3	587-1886-1-ND	.41	1.79	4,000	19.00/M	BK1608LL470-T
	LL	56	0.4	0.3	587-1888-1-ND	.41	1.79	4,000	19.00/M	BK1608LL560-T
	HS	60	0.8	0.1	587-1873-1-ND	.41	1.79	4,000	19.00/M	BK1608HS600-T
	LL	68	0.3	0.35	587-1889-1-ND	.41	1.79	4,000	19.00/M	BK1608LL680-T
	HS	80	0.6	0.1	587-1875-1-ND	.41	1.79	4,000	19.00/M	BK1608HS800-T
	HM	120	0.35	0.2	587-1863-1-ND	.41	1.79	4,000	19.00/M	BK1608HM121-T
	HS	120	0.5	0.18	587-1868-1-ND	.41	1.79	4,000	19.00/M	BK1608HS121-T
	HW	120	0.6	0.15	587-1876-1-ND	.41	1.79	4,000	19.00/M	BK1608HW121-T
	LL	120	0.3	0.5	587-1880-1-ND	.41	1.79	4,000	19.00/M	BK1608LL121-T
	LL	180	0.25	0.65	587-1881-1-ND	.41	1.79	4,000	19.00/M	BK1608LL181-T
	HM	240	0.3	0.35	587-1864-1-ND	.41	1.79	4,000	19.00/M	BK1608HM241-T
	HS	240	0.4	0.25	587-1870-1-ND	.41	1.79	4,000	19.00/M	BK1608HS241-T
	HW	240	0.45	0.25	587-1877-1-ND	.41	1.79	4,000	19.00/M	BK1608HW241-T
	LL	240	0.25	0.8	587-1882-1-ND	.41	1.79	4,000	19.00/M	BK1608LL241-T
	LL	330	0.2	0.85	587-1884-1-ND	.41	1.79	4,000	19.00/M	BK1608LL331-T
	HW	430	0.4	0.3	587-1878-1-ND	.41	1.79	4,000	19.00/M	BK1608HW431-T
	LL	430	0.2	0.85	587-1885-1-ND	.41	1.79	4,000	19.00/M	BK1608LL431-T
	TS	430	0.4	0.32	587-1896-1-ND	.41	1.79	4,000	19.00/M	BK1608TS431-T
	HM	470	0.25	0.45	587-1865-1-ND	.41	1.79	4,000	19.00/M	BK1608HM471-T
	LL	510	0.2	0.9	587-1887-1-ND	.41	1.79	4,000	19.00/M	BK1608LL511-T
	HM	600	0.25	0.6	587-1866-1-ND	.41	1.79	4,000	19.00/M	BK1608HM601-T
	HS	600	0.35	0.45	587-1874-1-ND	.41	1.79	4,000	19.00/M	BK1608HS601-T
	HW	600	0.3	0.4	587-1879-1-ND	.41	1.79	4,000	19.00/M	BK1608HW601-T
	TS	600	0.35	0.35	587-1897-1-ND	.41	1.79	4,000	19.00/M	BK1608TS601-T
0603	LL	680	0.15	1.0	587-1890-1-ND	.41	1.79	4,000	19.00/M	BK1608LL681-T
	LM	750	0.3	0.6	587-1894-1-ND	.41	1.79	4,000	19.00/M	BK1608LM751-T
	HM	1000	0.2	0.7	587-1862-1-ND	.41	1.79	4,000	19.00/M	BK1608HM102-T
	HS	1000	0.3	0.6	587-1867-1-ND	.41	1.79	4,000	19.00/M	BK1608HS102-T
	TS	1000	0.3	0.39	587-1895-1-ND	.41	1.79	4,000	19.00/M	BK1608TS102-T
	LM	1500	0.25	0.75	587-1891-1-ND	.41	1.79	4,000	19.00/M	BK1608LM152-T
	LM	1800	0.2	0.85	587-1892-1-ND	.41	1.79	4,000	19.00/M	BK1608LM182-T
	LM	2500	0.2	1.1	587-1893-1-ND	.41	1.79	4,000	19.00/M	BK1608LM252-T
0805	HS	15	1.2	0.05	587-1906-1-ND	.56	2.44	4,000	26.00/M	BK2125HS150-T
	HS	22	1.2	0.05	587-1907-1-ND	.56	2.44	4,000	26.00/M	BK2125HS220-T
	HS	33	1.2	0.05	587-1909-1-ND	.56	2.44	4,000	26.00/M	BK2125HS330-T
	HS	47	1.0	0.05	587-1911-1-ND	.56	2.44	4,000	26.00/M	BK2125HS470-T
	LL	56	0.6	0.2	587-1916-1-ND	.56	2.44	4,000	26.00/M	BK2125LL560-T
	HS	75	1.0	0.1	587-1913-1-ND	.56	2.44	4,000	26.00/M	BK2125HS750-T
	HS	100	0.9	0.1	587-1903-1-ND	.56	2.44	4,000	26.00/M	BK2125HS101-T
	HM	120	0.8	0.15	587-1899-1-ND	.56	2.44	4,000	26.00/M	BK2125HM121-T
	HS	120	0.8	0.15	587-1905-1-ND	.56	2.44	4,000	26.00/M	BK2125HS121-T
	LL	120	0.4	0.3	587-1914-1-ND	.56	2.44	4,000	26.00/M	BK2125LL121-T
	HM	240	0.6	0.2	587-1900-1-ND	.56	2.44	4,000	26.00/M	BK2125HM241-T
	HS	240	0.6	0.2	587-1908-1-ND	.56	2.44	4,000	26.00/M	BK2125HS241-T
	LL	240	0.3	0.35	587-1915-1-ND	.56	2.44	4,000	26.00/M	BK2125LL241-T
	HS	430	0.5	0.25	587-1910-1-ND	.56	2.44	4,000	26.00/M	BK2125HS431-T
	HM	470	0.5	0.25	587-1901-1-ND	.56	2.44	4,000	26.00/M	BK2125HM471-T
	HM	600	0.5	0.25	587-1902-1-ND	.56	2.44	4,000	26.00/M	BK2125HM601-T
	HS	600	0.5	0.3	587-1912-1-ND	.56	2.44	4,000	26.00/M	BK2125HS601-T
	LM	750	0.4	0.3	587-1920-1-ND	.56	2.44	4,000	26.00/M	BK2125LM751-T
	HM	1000	0.4	0.35	587-1898-1-ND	.56	2.44	4,000	26.00/M	BK2125HM102-T
	HS	1000	0.3	0.4	587-1904-1-ND	.56	2.44	4,000	26.00/M	BK2125HS102-T
	LM	1500	0.4	0.35	587-1917-1-ND	.56	2.44	4,000	26.00/M	BK2125LM152-T
	LM	1800	0.3	0.45	587-1918-1-ND	.56	2.44	2,000	26.00/M	BK2125LM182-T
	LM	2500	0.2	0.75	587-1919-1-ND	.56	2.44	2,000	26.00/M	BK2125LM252-T
BKP Series										
0402	HS	120	1.0	0.14	587-1921-1-ND	.56	2.44	10,000	26.00/M	BKP1005HS121-T
	HM	120	1.1	0.12	587-2089-1-ND§	.45	1.95	10,000	21.00/M	BKP1005HM121-T
	HS	220	0.8	0.2	587-2088-1-ND§	.45	1.95	10,000	21.00/M	BKP1005HS221-T
0603	HS	33	3.0	0.025	587-1926-1-ND	.41	1.79	4,000	19.00/M	BKP1608HS330-T
	HS	60	2.5	0.04	587-1928-1-ND	.41	1.79	4,000	19.00/M	BKP1608HS600-T
	HS	100	1.7	0.05	587-1922-1-ND	.41	1.79	4,000	19.00/M	BKP1608HS101-T
	HS	120	2.7	0.035	587-1923-1-ND	.41	1.79	4,000	19.00/M	BKP1608HS121-T
	HS	180	1.5	0.075	587-1924-1-ND	.41	1.79	4,000	19.00/M	BKP1608HS181-T
	HS	270	1.2	0.11	587-1925-1-ND	.41	1.79	4,000	19.00/M	BKP1608HS271-T
	HS	390	1.0	0.14	587-1927-1-ND	.41	1.79	4,000	19.00/M	BKP1608HS391-T
0805	HS	33	4.0	0.02	587-1931-1-ND	.56	2.44	4,000	26.00/M	BKP2125HS330-T
	HS	60	3.0	0.025	587-1932-1-ND	.56	2.44	4,000	26.00/M	BKP2125HS600-T
	HS	100	2.5	0.04	587-1929-1-ND	.56	2.44	4,000	26.00/M	BKP2125HS101-T
	HS	220	2.0	0.05	587-1930-1-ND	.56	2.44	4,000	26.00/M	BKP2125HS221-T

‡ For Tape and Reel part number, change 1-ND to 2-ND. § ***NEW!***

† **587-1957-ND** (TAIYO-0402BEAD-V1) Kit contains 50 each of values denoted (1,200 total pieces)........ **$67.50**

AVX Feedthru 0805/1206 Filters/Capacitors

Available in both a standard 0805 and 1206 size, AVX's line of feedthru capacitors are ideal choices for EMI suppression, broadband I/O filtering, or Vcc power line conditioning.

The unique construction of a feedthru capacitor provides low parallel inductance and offers excellent decoupling capability for all high di/dt environments and provides significant noise reduction in digital circuits to <5GHz.

Characteristics:• Current Rating: 300mA • Insulation Resistance: 1,000MΩ • DC Resistance: <0.6Ω • Operating Temperature: -55°C ~ 125°C

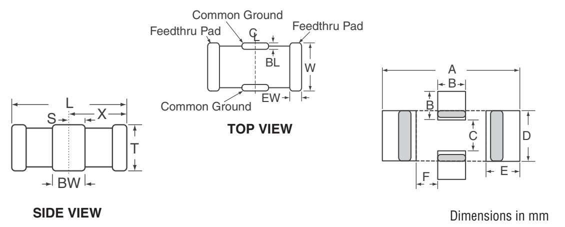

Series	Dimensions (mm)												
	A	B	C	D	E	F	L	W	T	BW	BL	EW	X	S
0805	3.45	0.51	0.76	1.27	1.02	0.46	2.01 ±0.20	1.25 ±0.20	1.14 Max.	0.46 ±0.10	0.18 +0.25/-0.08	0.25 ±0.13	1.02 ±0.10	0.23 ±0.15
1206	4.54	0.94	1.02	1.65	1.09	0.71	3.20 ±0.20	1.60 ±0.20	1.27 Max.	0.89 ±0.10	0.18 +0.25/-0.08	0.38 ±0.18	1.60 ±0.10	0.46 ±0.15

Size Code	Type	WV VDC	Capacitance (pF)	Capacitance Tolerance (%)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing	AVX Part No.
						10	100	500		1,000	
0805	NPO	100	220	+50, -20	478-2232-1-ND	1.07	.64	.37	478-2232-2-ND	174.60	W2F11A2218AT1F
	NPO	100	470	+50, -20	478-2233-1-ND	1.07	.64	.37	478-2233-2-ND	174.60	W2F11A4718AT1F
	X7R	50	1000	+50, -20	478-2234-1-ND	1.13	.67	.39	478-2234-2-ND	183.60	W2F15C1028AT1F
	X7R	50	10,000	+50, -20	478-2235-1-ND	1.13	.67	.39	478-2235-2-ND	183.60	W2F15C1038AT1F
	X7R	50	22,000	+50, -20	478-2236-1-ND	1.13	.67	.39	478-2236-2-ND	183.60	W2F15C2238AT1F
	X7R	50	47,000	+50, -20	478-2237-1-ND	1.13	.67	.39	478-2237-2-ND	183.60	W2F15C4738AT1F
1206	NPO	100	47	+50, -20	478-2238-1-ND	1.10	.65	.38	478-2238-2-ND	180.00	W3F11A4708AT1F
	X7R	50	2200	+50, -20	478-2239-1-ND	1.16	.69	.40	478-2239-2-ND	189.00	W3F15C2228AT1F

EMI Suppression Ferrite Chips and Arrays

BLM03A, BLM15A, BLM18A and BLM21A Series - For General Use: BLM-A Series generates an impedance from the relatively low frequencies. Therefore BLM-A Series is effective in noise suppression in the wide frequency range (30MHz ~ several hundred MHz).

BLM15B, BLM18B and BLM21B Series - For High Speed Signal: BLM-B Series can minimize attentuation of the signal waveform due to its sharp impedance characteristics. Various impedances are available to match signal frequency.

BLM18P, BLM21P, BLM31P, BLM41P and BLM18S Series - For Large Current: BLM-P/S Series can be used in high current due to its low DC resistance. It can match power lines to a maximum of 6A DC.

BLM15E, BLM18E, BLM15H and BLM18H - For GHz Range Noise Suppression: BLM-H/E Series has horizontal wire wound structure that minimizes stray capacitance and increases the effective frequency range.

BLA2AA and BLA2AB Series: The BLA2AA/AB Series provides attenuation across a broad frequency range. Two types of impedance characteristics are available, one is for the general signal lines and the other is for high speed signal line. The BLA2 Series original inner electrode structure enables extra low crosstalk.

BLA31A and BLA31B Series: The BLA31A/B is capable of filtering 4 circuits in a 3216 package size. BLA31A/B is suitbale for EMI suppression in smaller digital equipment.

BLM03A

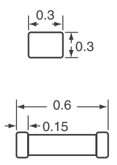

BLM15A, BLM15B, BLM15E and BLM15H

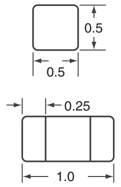

BLM18A, BLM18B, BLM18P, BLM18S, BLM18E and BLM18H

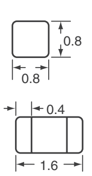

BLM21A, BLM21B, BLM21P

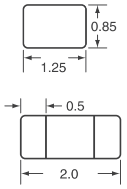

BLM31P

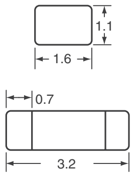

BLM41P

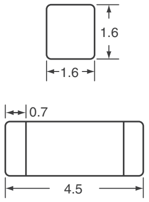

BLA2AA and BLA2AB

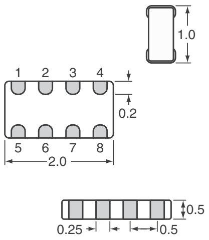

BLA31A and BLA31B

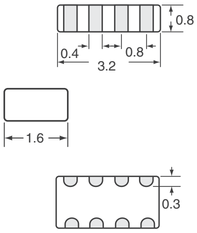

Impedance (@ 100MHz) (Ω)	Rated Current (mA)	DC Resistance (max.) (Ω)	Digi-Key Part No.	Pricing			Tape & Reel‡		MuRata Part No.
				10	50	100	Qty.	Pricing	
BLM03 Series — 0201 Case Size									
10 (Typ.)	500	0.1	490-2555-1-ND	1.30	5.64	10.41	15,000	61.00/M	BLM03AG100SN1D
70 (Typ.)	200	0.5	490-2556-1-ND	1.30	5.64	10.41	15,000	61.00/M	BLM03AG700SN1D
120±25%	200	0.8	490-2557-1-ND	1.30	5.64	10.41	15,000	61.00/M	BLM03AG121SN1D
240±25%	100	1.0	490-2558-1-ND	1.30	5.64	10.41	15,000	61.00/M	BLM03AG241SN1D
BLM15 Series — 0402 Case Size									
120±25%	300	0.55	490-1008-1-ND	.62	2.70	4.98	10,000	29.05/M	BLM15BB121SN1D
120±25%	300	0.7	490-4000-1-ND	1.41	6.13	11.31	10,000	66.00/M	BLM15HB121SN1D
120±25%	500	0.25	490-1005-1-ND	.62	2.70	4.98	10,000	29.05/M	BLM15AG121SN1D
120±25%	1500	0.095	490-4004-1-ND	1.74	7.52	13.89	10,000	81.00/M	BLM15EG121SN1D
220±25%	250	1.0	490-4001-1-ND	1.41	6.13	11.31	10,000	66.00/M	BLM15HB221SN1D
220±25%	700	0.28	490-4005-1-ND	1.74	7.52	13.89	10,000	81.00/M	BLM15EG221SN1D
600±25%	200	0.65	490-1009-1-ND	.69	2.97	5.49	10,000	32.03/M	BLM15BD601SN1D
600±25%	300	0.60	490-1006-1-ND	.66	2.84	5.25	10,000	30.63/M	BLM15AG601SN1D
600±25%	300	0.7	490-3998-1-ND	1.41	6.13	11.31	10,000	66.00/M	BLM15HG601SN1D
600±25%	300	0.85	490-4002-1-ND	1.41	6.13	11.31	10,000	66.00/M	BLM15HD601SN1D
1000±25%	200	0.90	490-1010-1-ND	.69	2.97	5.49	10,000	32.03/M	BLM15BD102SN1D
1000±25%	200	1.00	490-1007-1-ND	.66	2.84	5.25	10,000	30.63/M	BLM15AG102SN1D
1000±25%	250	1.1	490-3999-1-ND	1.41	6.13	11.31	10,000	66.00/M	BLM15HG102SN1D
1000±25%	250	1.25	490-4003-1-ND	1.41	6.13	11.31	10,000	66.00/M	BLM15HD102SN1D
BLM18 Series — 0603 Case Size									
22±25%	500	0.35	490-1016-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BA220SN1D
26±25%	6000	0.007	490-3995-1-ND	.88	3.82	7.05	10,000	33.00/M	BLM18SG260TN1D
30 (Typ.)	1000	0.05	490-1035-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18PG300SN1D
47±25%	300	0.55	490-1017-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BA470SN1D
60 (Typ.)	500	0.10	490-1036-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18PG600SN1D
75±25%	300	0.70	490-1018-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BA750SN1D
120±25%	200	0.20	490-1011-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18AG121SN1D
120±25%	200	0.50	490-1020-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BB121SN1D
120±25%	200	0.90	490-1019-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BA121SN1D
120±25%	2000	0.04	490-3991-1-ND	1.78	7.70	14.22	4,000	83.00/M	BLM18EG121SN1D
120±25%	2000	0.05	490-1037-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18PG121SN1D
120±25%	3000	0.025	490-3996-1-ND	.88	3.82	7.05	10,000	33.00/M	BLM18SG121TN1D
220±25%	200	0.30	490-1012-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18AG221SN1D
220±25%	2000	0.05	490-3992-1-ND	1.78	7.70	14.22	4,000	83.00/M	BLM18EG221SN1D
330±25%	1500	0.070	490-3997-1-ND	.88	3.82	7.05	10,000	41.00/M	BLM18SG331TN1D
470±25%	50	1.00	490-1021-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BB471SN1D
470±25%	100	1.20	490-1029-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HD471SN1D
470±25%	200	0.50	490-1013-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18AG471SN1D
470±25%	200	0.55	490-1022-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BD471SN1D
470±25%	200	0.85	490-1032-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HG471SN1D
470±25%	500	0.21	490-3993-1-ND	1.78	7.70	14.22	4,000	83.00/M	BLM18EG471SN1D
600±25%	100	1.50	490-1030-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HD601SN1D
600±25%	200	0.50	490-1014-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18AG601SN1D
600±25%	200	0.65	490-1023-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BD601SN1D
600±25%	200	1.00	490-1033-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HG601SN1D
600±25%	500	0.35	490-3994-1-ND	1.76	7.64	14.10	4,000	82.00/M	BLM18EG601SN1D
1000±25%	50	1.80	490-1031-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HD102SN1D
1000±25%	100	1.60	490-1034-1-ND	1.20	5.20	9.60	4,000	56.00/M	BLM18HG102SN1D
1000±25%	100	0.70	490-1015-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18AG102SN1D
1000±25%	100	0.85	490-1024-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BD102SN1D
1500±25%	50	1.20	490-1025-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BD152SN1D
1800±25%	50	1.50	490-1026-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BD182SN1D
2200±25%	50	1.50	490-1027-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BD222SN1D
2500±25%	50	1.50	490-1028-1-ND	.56	2.44	4.50	4,000	26.25/M	BLM18BD252SN1D
BLM21 Series — 0805 Case Size									
30 (Typ.)	3000	0.015	490-1052-1-ND	.71	3.06	5.64	4,000	32.90/M	BLM21PG300SN1D
60 (Typ.)	3000	0.025	490-1053-1-ND	.71	3.06	5.64	4,000	32.90/M	BLM21PG600SN1D
120±25%	200	0.15	490-1038-1-ND	.74	3.22	5.94	4,000	34.65/M	BLM21AG121SN1D
120±25%	200	0.25	490-1044-1-ND	.74	3.22	5.94	4,000	34.65/M	BLM21BD121SN1D
120±25%	200	0.25	490-1042-1-ND	.74	3.22	5.94	4,000	34.65/M	BLM21BB121SN1D
220 (Typ.)	2000	0.050	490-1054-1-ND	.56	2.41	4.44	4,000	25.90/M	BLM21PG221SN1D
470±25%	200	0.25	490-1039-1-ND	.74	3.22	5.94	4,000	34.65/M	BLM21AG471SN1D
470±25%	200	0.35	490-1045-1-ND	.74	3.22	5.94	4,000	34.65/M	BLM21BD471SN1D
470±25%	200	0.45	490-1043-1-ND	.74	3.22	5.94	4,000	34.65/M	BLM21BB471SN1D
600±25%	200	0.30	490-1040-1-ND	.74	3.22	5.94	4,000	34.65/M	BLM21AG601SN1D
600±25%	200	0.35	490-1046-1-ND	.79	3.41	6.30	4,000	36.75/M	BLM21BD601SN1D
1000±25%	200	0.40	490-1047-1-ND	.83	3.58	6.60	4,000	38.50/M	BLM21BD102SN1D
1000±25%	200	0.45	490-1041-1-ND	.83	3.58	6.60	4,000	38.50/M	BLM21AG102SN1D
1500±25%	200	0.45	490-1048-1-ND	1.13	4.88	9.00	4,000	53.00/M	BLM21BD152SN1D
1800±25%	200	0.50	490-1049-1-ND	1.13	4.88	9.00	4,000	53.00/M	BLM21BD182SN1D
2200±25%	200	0.60	490-1050-1-ND	1.13	4.88	9.00	4,000	53.00/M	BLM21BD222TN1D
2700±25%	200	0.80	490-1051-1-ND	1.13	4.88	9.00	3,000	53.00/M	BLM21BD272SN1L
BLM31 Series — 1206 Case Size									
50 (Typ.)	3000	0.025	490-1055-1-ND	2.00	8.65	15.96	3,000	93.10/M	BLM31PG500SN1L
120 (Typ.)	3000	0.025	490-1056-1-ND	2.00	8.65	15.96	3,000	93.10/M	BLM31PG121SN1L
600 (Typ.)	1500	0.09	490-1057-1-ND	2.00	8.65	15.96	3,000	93.10/M	BLM31PG601SN1L
BLM41 Series — 1806 Case Size									
60 (Typ.)	6000	0.01	490-1058-1-ND	2.53	10.95	20.22	2,500	117.96/M	BLM41PG600SN1L
75 (Typ.)	3000	0.025	490-4013-1-ND	2.53	10.95	20.22	2,500	118.00/M	BLM41PG750SN1L
80 (Typ.)	1000	0.10	490-1059-1-ND	2.17	9.39	17.34	2,500	101.16/M	BLM41PF800SN1L
470 (Typ.)	2000	0.05	490-1060-1-ND	2.33	10.09	18.63	2,500	108.68/M	BLM41PG471SN1L
1000 (Typ.)	1500	0.09	490-1061-1-ND	2.57	11.12	20.52	2,500	119.70/M	BLM41PG102SN1L
BLA2 Series — 0804 Case Size									
120±25%	50	0.60	490-4009-1-ND	4.71	20.39	37.65	10,000	220.00/M	BLA2ABB121SN4D
120±25%	100	0.35	490-4011-1-ND	4.71	20.39	37.65	10,000	220.00/M	BLA2ABD121SN4D
120±25%	100	0.50	490-4006-1-ND	4.71	20.39	37.65	10,000	220.00/M	BLA2AAG121SN4D
220±25%	50	0.90	490-4010-1-ND	4.71	20.39	37.65	10,000	220.00/M	BLA2ABB221SN4D
600±25%	50	1.10	490-4007-1-ND	4.71	20.39	37.65	10,000	220.00/M	BLA2AAG601SN4D
600±25%	100	0.80	490-4012-1-ND	4.71	20.39	37.65	10,000	220.00/M	BLA2ABD601SN4D
1000±25%	50	1.00	490-4092-1-ND	4.71	20.39	37.65	10,000	220.00/M	BLA2ABD102SN4D
1000±25%	50	1.30	490-4008-1-ND	4.71	20.39	37.65	10,000	220.00/M	BLA2AAG102SN4D
BLA31 Series — SMD Array									
120±25%	150	0.20	490-1000-1-ND	4.50	19.50	36.00	4,000	210.00/M	BLA31AG121SN4D
120±25%	150	0.30	490-1003-1-ND	4.50	19.50	36.00	4,000	210.00/M	BLA31BD121SN4D
600±25%	100	0.35	490-1004-1-ND	4.50	19.50	36.00	4,000	210.00/M	BLA31BD601SN4D
600±25%	100	0.45	490-1001-1-ND	4.50	19.50	36.00	4,000	210.00/M	BLA31AG601SN4D
1000±25%	50	0.45	490-1002-1-ND	4.50	19.50	36.00	4,000	210.00/M	BLA31AG102SN4D

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Chip EMI Filters Capacitor Type

NFM21CC Series: The chip EMIFIL NFM21C series is a chip type 3-terminal EMI suppression filter. It can reduce residual inductance to an extremely low level making it excellent for noise suppression at high frequencies.

NFM21PC Series: NFM21P is a 3-terminal structure component. This product can be applied to large current DC power lines. NFM21P is suitable for noise suppression of DC power lines where relatively large current operates.

NFE31PT Series: Its large rated current of 6A and low voltage drop due to small DC resistance are suitable for DC power line use. The feedthrough capacitor realizes excellent high frequency characteristics. The structure incorporates built-in ferrite beads which minimize resonance with surrounding circuits.

NFM41PC Series: The chip EMIFIL NFM41P series consists of 3-terminal structure. These components are able to be applied to large current DC power lines. NFM41P series are suitable in noise suppression in DC lines where relatively large currents operate.

NFE61PT Series: Its large rated current of 2A and low voltage drop due to small DC resistance are suitable for DC power line use. The feedthrough capacitor realizes excellent high frequency characteristics.

Capaci-tance	Rated Voltage (Vdc)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	100	Tape and Reel‡ Qty.	Pricing	Murata Part No.
NFM21CC Series — 0805 Case Size										
22pF	50	700	490-2532-1-ND	.24	2.04	9.42	15.70	4,000	109.90/M	NFM21CC220U1H3D
47pF	50	700	490-2533-1-ND	.24	2.04	9.42	15.70	4,000	109.90/M	NFM21CC470U1H3D
100pF	50	700	490-2534-1-ND	.24	2.04	9.42	15.70	4,000	109.90/M	NFM21CC101U1H3D
2200pF	50	1000	490-2535-1-ND	.24	2.04	9.42	15.70	4,000	109.90/M	NFM21CC222R1H3D
NFM21PC Series — 0805 Case Size										
0.10µF	25	200	490-2536-1-ND	.18	1.57	7.25	12.08	4,000	84.53/M	NFM21PC104R1E3D
0.47µF	16	200	490-2537-1-ND	.23	2.00	9.23	15.38	4,000	107.63/M	NFM21PC474R1C3D
1.0µF	16	400	490-3912-1-ND	.24	2.10	9.68	16.13	4,000	113.00/M	NFM21PC105B1C3D
NFE31PT Series — 1206 Case Size										
22pF	25	600	490-2544-1-ND	.54	4.66	21.53	35.88	2,000	251.13/M	NFE31PT220R1E9L
100pF	25	600	490-2545-1-ND	.54	4.66	21.53	35.88	2,000	251.13/M	NFE31PT101C1E9L
470pF	25	600	490-2546-1-ND	.54	4.66	21.53	35.88	2,000	251.13/M	NFE31PT471F1E9L
2200pF	25	600	490-2547-1-ND	.54	4.66	21.53	35.88	2,000	251.13/M	NFE31PT222Z1E9L
NFM41PC Series — 1806 Case Size										
0.20µF	50	200	490-2550-1-ND	.84	7.25	33.45	55.75	4,000	390.25/M	NFM41PC204F1H3L
NFE61PT Series — 2606 Case Size										
33pF	50	200	490-2551-1-ND	.70	6.08	28.07	46.78	2,500	327.43/M	NFE61PT330B1H9L
680pF	50	200	490-2552-1-ND	.70	6.08	28.07	46.78	2,500	327.43/M	NFE61PT681B1H9L
1000pF	50	200	490-2553-1-ND	.70	6.08	28.07	46.78	2,500	327.43/M	NFE61PT102E1H9L
4700pF	50	200	490-2554-1-ND	.85	7.39	34.13	56.88	2,500	398.13/M	NFE61PT472C1H9L

‡ For Tape and Reel part number, change 1-ND to 2-ND.

NFM21CC Series

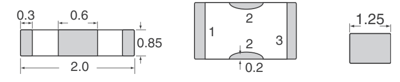

NFM21PC Series

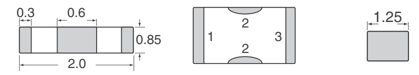

NFE31PT Series

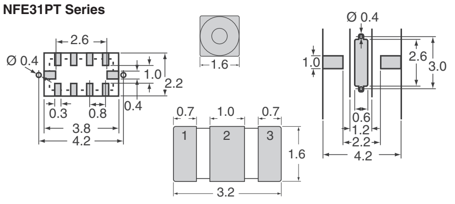

NFM41PC Series

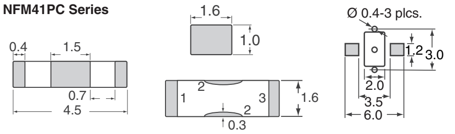

NFE61PT Series

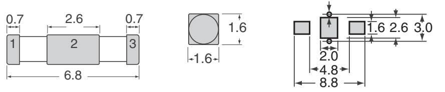

LC Combined Chip EMIFIL®

NFL18ST Series: The NFL18ST series is an EMI suppression filter for high speed signal lines, achieving T-type structure in 1.6 x 0.8mm size with Murata's multilayer technology. Noise suppression for video signal lines (RGB lines) and high speed clock lines.

NFL21S Series: Murata's original internal structure design enables excellent noise suppression up to high frequencies. Available in five different values of cut off frequency ranging from 20MHz up to 500MHz.

NFW31S Series: The signal line chip EMI filter NFW31S series consists of high performance EMI suppression filters LC combined wound type. They are designed for noise suppression in high speed signal digital circuits in which the signal harmonics are prone to becoming noise sources. These filters achieve a 100dB/dec. (typical) damping characteristic with Murata's innovative circuit design. This makes these chips effective in applications where the signal and noise frequencies are close to each other.

Cut-off Freq. (MHz)	Cap. (pF)	Induc-tance (nH)	Rated Voltage (Vdc)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	100	Tape and Reel‡ Pricing 4,000	Murata Part No.
NFL18ST Series											
150	32	140	16	100	490-2531-1-ND	.50	4.37	20.19	33.65	235.55/M	NFL18ST157X1C3D
200	25	110	16	150	490-4014-1-ND	.50	4.37	20.19	33.65	236.00/M	NFL18ST207X1C3D
300	18	62	16	200	490-2530-1-ND	.50	4.37	20.19	33.65	235.55/M	NFL18ST307X1C3D
500	10	43	16	200	490-4015-1-ND	.50	4.37	20.19	33.65	236.00/M	NFL18ST507X1C3D
NFL21S Series											
10	670	680	16	100	490-4016-1-ND	1.05	9.10	42.00	70.00	238.00/M	NFL21SP106X1C3D
20	240	700	16	100	490-4540-1-ND	.38	3.32	15.35	25.58	185.00/M	NFL21SP206X1C7D
50	84	305	16	150	490-2542-1-ND	.40	3.43	15.84	26.40	184.80/M	NFL21SP506X1C3D
70	76	185	16	150	490-2541-1-ND	.37	3.22	14.88	24.80	173.60/M	NFL21SP706X1C3D
100	44	135	16	200	490-2540-1-ND	.29	2.54	11.72	19.53	136.68/M	NFL21SP107X1C3D
300	19	45	16	300	490-2539-1-ND	.28	2.40	11.07	18.45	129.15/M	NFL21SP307X1C3D

Nominal Cut-off Freq. (MHz)	Attenuation at 10 MHz (dB)	Attenuation at 400 MHz (dB)	Digi-Key Part No.	Pricing 1	10	50	100	Tape and Reel‡ Pricing 2,000	Murata Part No.
NFW31S Series									
10	6 maximum	—	490-2548-1-ND	.79	6.86	31.65	52.75	369.00/M	NFW31SP106X1E4L
400	—	6 maximum	490-2549-1-ND	.79	6.86	31.65	52.75	369.00/M	NFW31SP407X1E4L

‡ For Tape and Reel part number, change 1-ND to 2-ND.

NFL18ST Series

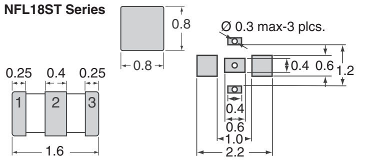

NFL21S Series

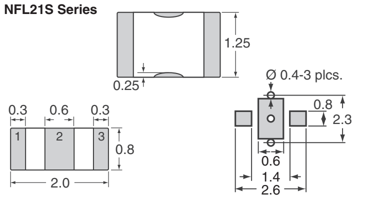

NFW31S Series

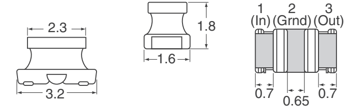

NEW! Block Type EMIFIL®
LC Combined Type Filters

The block type EMIFIL BNX series incorporates through-type, monolithic chip and bead capacitors. The BNX capacitors are high performance capacitors, for use in DC power circuits.

Features:

- Enables obtaining high insertion loss in wide frequency ranges from 0.5MHz ~ 1GHz
- Effective for impulse noise such as electrostatic discharge or spike noise

Applications:

- Displays
- Digital AV equipment
- Amusement equipment
- PC peripheral equipment
- Industry equipment

Fig. 1

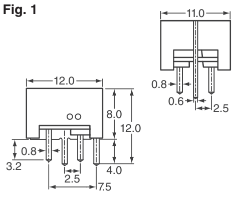

Fig. 2

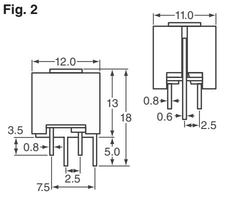

Fig. 3

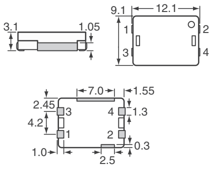

Fig.	Rated Voltage (Vdc)	Rated Current (A)	Insulation Resistance Min. (Ohm)	Digi-Key Part No.	Pricing 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 400	Murata Part No.
1	25	15	50M	490-5055-ND	5.93	51.38	237.12	—	—	BNX016-01
	50	15	500M	490-5054-ND	5.93	51.38	237.12	—	—	BNX012-01
2	50	10	100M	490-5053-ND	11.90	103.09	475.80	—	—	BNX002-01
3	50	10	500M	490-5052-1-ND†	6.35	55.04	254.01	490-5052-2-ND	1185.20	BNX022-01L

† Cut Tape

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Steward | a unit of Laird TECHNOLOGIES Surface Mount EMI Suppression Ferrite Chips for Signal and Power Filtering

Chips up to 10 Amps continuous operation

Applications:
- Filters power input pins of oscillators and logic devices using high speed clocks
- Filters low frequency input/output signals entering/exiting shielded enclosures
- High frequency filtering of medium speed clocks and video signals

RoHS COMPLIANT

Digi-Reel®

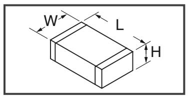

Steward's Part Number Prefix Code

DM: Differential Mode and Ultra High Current	**HZ:** High Impedance
HF: High Frequency	**LI:** Low Current
HI: High Current	**LF:** Low Frequency
HR: High Retention under bias	**MI:** Mid Current

Size Code	Dimensions – mm L	W	H	Current Rating Max. (mA) Continuous	Typical Impedance @ 100MHz (Ω)	Typical Peak Impedance (Ω)	Peak Impedance Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Steward Part No.
0402	1.01	0.50	0.50	**200**	300	549	374	240-2360-1-ND	.89	3.87	7.14	240-2360-2-ND	10,000	42.00/M	30,000	39.00/M	LI0402B301R-10
				200	80	243	769	240-2553-1-ND	.89	3.87	7.14	240-2553-2-ND	10,000	42.00/M	30,000	39.00/M	LI0402B800R-10
				300	220	453	440	240-2554-1-ND	.89	3.87	7.14	240-2554-2-ND	10,000	42.00/M	30,000	39.00/M	LI0402C221R-10
				300	47	59	1402	240-2589-1-ND ***NEW!***	.79	3.41	6.30	240-2589-2-ND ***NEW!***	10,000	36.75/M	30,000	34.65/M	LI0402C470R-10
				400	120	213	682	240-2361-1-ND	.83	3.59	6.63	240-2361-2-ND	10,000	39.00/M	30,000	36.00/M	LI0402D121R-10
				500	19	24	1519	240-2590-1-ND ***NEW!***	.79	3.41	6.30	240-2590-2-ND ***NEW!***	10,000	36.75/M	30,000	34.65/M	LI0402E190R-10
				500	30	58	1,195	240-2362-1-ND	.89	3.87	7.14	240-2362-2-ND	10,000	42.00/M	30,000	39.00/M	LI0402E300R-10
				500	60	97	801	240-2363-1-ND	.89	3.87	7.14	240-2363-2-ND	10,000	42.00/M	30,000	39.00/M	LI0402E600R-10
				50	1,500	1,875	143	240-2588-1-ND ***NEW!***	1.13	4.91	9.06	240-2588-2-ND ***NEW!***	10,000	52.85/M	30,000	49.83/M	HZ0402A152R-10
				100	600	965	241	240-2364-1-ND	.81	3.53	6.51	240-2364-2-ND	10,000	38.00/M	30,000	36.00/M	HZ0402A601R-10
				200	1,000	1,116	182	240-2555-1-ND	.98	4.24	7.83	240-2555-2-ND	10,000	46.00/M	30,000	43.00/M	HZ0402B102R-10
0603	1.60	0.80	0.80	**200**	200	362	420	240-2556-1-ND	.81	3.53	6.51	—	—	—	—	—	LI0603B201R-10
				400	300	389	261	240-2365-1-ND	.70	3.02	5.58	240-2365-2-ND	4,000	33.00/M	12,000	30.00/M	LI0603D301R-10
				500	47	91	1,000	240-2557-1-ND	.70	3.02	5.58	240-2557-2-ND	4,000	33.00/M	12,000	30.00/M	LI0603E470R-10
				500	150	209	332	240-2366-1-ND	.70	3.02	5.58	240-2366-2-ND	4,000	33.00/M	12,000	30.00/M	LI0603E151R-10
				700	120	177	389	240-2367-1-ND	.58	2.52	4.65	240-2367-2-ND	4,000	27.00/M	12,000	25.00/M	LI0603G121R-10
				700	220	283	251	240-2368-1-ND	.70	3.02	5.58	240-2368-2-ND	4,000	33.00/M	12,000	30.00/M	LI0603G221R-10
				700	80	101	500	240-2369-1-ND	.70	3.02	5.58	240-2369-2-ND	4,000	33.00/M	12,000	30.00/M	LI0603G800R-10
				1,000	60	96	700	240-2370-1-ND	.81	3.53	6.51	240-2370-2-ND	4,000	38.00/M	12,000	35.00/M	MI0603J600R-10
				1,000	600	620	150	240-2371-1-ND	.87	3.77	6.96	240-2371-2-ND	4,000	41.00/M	12,000	37.00/M	MI0603J601R-10
				1,000	68	110	650	240-2372-1-ND	.81	3.53	6.51	240-2372-2-ND	4,000	38.00/M	12,000	35.00/M	MI0603J680R-10
				1,500	30	45	1000	240-2373-1-ND	.81	3.53	6.51	240-2373-2-ND	4,000	38.00/M	12,000	35.00/M	MI0603K300R-10
				2,000	300	412	200	240-2374-1-ND	.95	4.13	7.62	240-2374-2-ND	4,000	44.00/M	12,000	41.00/M	MI0603L301R-10
				2,000	220	240	280	240-2558-1-ND	.95	4.13	7.62	240-2558-2-ND	4,000	44.00/M	12,000	41.00/M	MI0603L221R-10
				2,500	120	171	420	240-2375-1-ND	.95	4.13	7.62	240-2375-2-ND	4,000	44.00/M	12,000	41.00/M	MI0603M121R-10
				4,000	60	100	750	240-2376-1-ND	.95	4.13	7.62	240-2376-2-ND	4,000	44.00/M	12,000	41.00/M	HI0603P600R-10
				50	1,800	2,420	180	240-2560-1-ND	.83	3.58	6.60	240-2560-2-ND	4,000	39.00/M	12,000	35.00/M	HZ0603A182R-10
				50	2,500	3,065	149	240-2561-1-ND	.83	3.58	6.60	240-2561-2-ND	4,000	39.00/M	12,000	35.00/M	HZ0603A252R-10
				100	1,500	2,306	190	240-2559-1-ND	.83	3.58	6.60	240-2559-2-ND	4,000	39.00/M	12,000	35.00/M	HZ0603A152R-10
				100	2,200	3,051	122	240-2377-1-ND	.83	3.58	6.60	240-2377-2-ND	4,000	39.00/M	12,000	35.00/M	HZ0603A222R-10
				200	1,000	992	135	240-2378-1-ND	.63	2.71	5.01	240-2378-2-ND	4,000	29.00/M	12,000	27.00/M	HZ0603B102R-10
				200	1,100	1,539	288	240-2379-1-ND	.83	3.58	6.60	240-2379-2-ND	4,000	39.00/M	12,000	35.00/M	HZ0603B112R-10
				200	750	863	137	240-2547-1-ND	.70	3.02	5.58	240-2547-2-ND	4,000	33.00/M	12,000	30.00/M	HZ0603B751R-10
				300	600	775	168	240-2380-1-ND	.63	2.71	5.01	240-2380-2-ND	4,000	29.00/M	12,000	27.00/M	HZ0603C601R-10
				300	650	964	380	240-2381-1-ND	.81	3.53	6.51	240-2381-2-ND	4,000	38.00/M	12,000	35.00/M	HZ0603C651R-10
0805	2.00	1.25	0.90	**700**	200	272	250	240-2549-1-ND	.75	3.25	6.00	240-2549-2-ND	4,000	35.00/M	12,000	32.00/M	LI0805G201R-10
				700	300	350	205	240-2382-1-ND	.75	3.25	6.00	240-2382-2-ND	4,000	35.00/M	12,000	32.00/M	LI0805G301R-10
				800	120	171	340	240-2383-1-ND	.75	3.25	6.00	240-2383-2-ND	4,000	35.00/M	12,000	32.00/M	LI0805H121R-10
				800	150	209	400	240-2384-1-ND	.75	3.25	6.00	240-2384-2-ND	4,000	35.00/M	12,000	32.00/M	LI0805H151R-10
				800	75	132	769	240-2385-1-ND	.75	3.25	6.00	240-2385-2-ND	4,000	35.00/M	12,000	32.00/M	LI0805H750R-10
	2.00	1.25	1.25	**100**	1,267	5,138	25	240-2563-1-ND	1.29	5.59	10.32	240-2563-2-ND	2,000	60.00/M	6,000	57.00/M	LF0805A252R-10
	2.00	1.25	0.90	**1,000**	1,000	1,112	120	240-2551-1-ND	1.03	4.45	8.22	240-2551-2-ND	4,000	48.00/M	12,000	44.00/M	MI0805J102R-10
				1,500	11	20	1,000	240-2387-1-ND	.91	3.93	7.26	240-2387-2-ND	4,000	42.00/M	12,000	39.00/M	MI0805K110R-10
				1,500	40	69	903	240-2389-1-ND	.91	3.93	7.26	240-2389-2-ND	4,000	42.00/M	12,000	39.00/M	MI0805K400R-10
				1,500	600	723	130	240-2390-1-ND	.96	4.18	7.71	240-2390-2-ND	4,000	45.00/M	12,000	41.00/M	MI0805K601R-10
				2,000	300	350	200	240-2391-1-ND	1.03	4.45	8.22	240-2391-2-ND	4,000	48.00/M	12,000	44.00/M	MI0805L301R-10
				2,500	220	284	260	240-2392-1-ND	.96	4.18	7.71	240-2392-2-ND	4,000	45.00/M	12,000	41.00/M	MI0805M221R-10
				3,500	120	167	270	240-2393-1-ND	1.03	4.45	8.22	240-2393-2-ND	4,000	48.00/M	12,000	44.00/M	HI0805O121R-10
				4,500	31	45	800	240-2394-1-ND	1.03	4.45	8.22	240-2394-2-ND	4,000	48.00/M	12,000	44.00/M	HI0805Q310R-10
				5,000	80	100	200	240-2395-1-ND	.89	3.84	7.08	240-2395-2-ND	4,000	41.00/M	12,000	38.00/M	HI0805R800R-10
				200	2,700	2,900	88	240-2504-1-ND	1.47	6.37	11.76	240-2504-2-ND	2,000	69.00/M	6,000	65.00/M	HZ0805B272R-10
				300	2,000	2,000	100	240-2396-1-ND	.96	4.18	7.71	240-2396-2-ND	4,000	45.00/M	12,000	41.00/M	HZ0805C202R-10
				400	1,000	1,268	113	240-2397-1-ND	.75	3.25	6.00	240-2397-2-ND	4,000	35.00/M	12,000	32.00/M	HZ0805D102R-10
				400	1,500	1,525	110	240-2398-1-ND	.96	4.18	7.71	240-2398-2-ND	4,000	45.00/M	12,000	41.00/M	HZ0805D152R-10
				500	600	696	155	240-2399-1-ND	.70	3.02	5.58	240-2399-2-ND	4,000	33.00/M	12,000	30.00/M	HZ0805E601R-10
				700	470	572	149	240-2400-1-ND	.75	3.25	6.00	240-2400-2-ND	4,000	35.00/M	12,000	32.00/M	HZ0805G471R-10
	2.00	1.25	1.25	**200**	2,200	2,200	100	240-2562-1-ND	.96	4.18	7.71	240-2562-2-ND	4,000	39.00/M	12,000	35.00/M	HZ0805B222R-10
1206	3.20	1.60	1.10	**2,000**	390	460	130	240-2578-1-ND	.98	4.23	7.80	240-2578-2-ND	3,000	46.00/M	6,000	43.00/M	MI1206L391R-10
				800	120	145	422	240-2401-1-ND	.90	3.92	7.23	240-2401-2-ND	3,000	42.00/M	6,000	40.00/M	LI1206H121R-10
				800	150	182	241	240-2402-1-ND	.90	3.92	7.23	240-2402-2-ND	3,000	42.00/M	6,000	40.00/M	LI1206H151R-10
				100	740	5,650	19	240-2564-1-ND	1.29	5.59	10.32	240-2564-2-ND	3,000	60.00/M	6,000	57.00/M	LF1206A302R-10
				300	915	2,505	41	240-2565-1-ND	1.13	4.89	9.03	240-2565-2-ND	3,000	53.00/M	6,000	50.00/M	LF1206C202R-10
				500	950	1,564	57	240-2566-1-ND	1.01	4.36	8.04	240-2566-2-ND	3,000	47.00/M	6,000	44.00/M	LF1206E152R-10
				1,000	2	111	5,450	240-2540-1-ND	1.13	4.88	9.00	240-2540-2-ND	3,000	51.00/M	6,000	48.00/M	HF1206J150R-10
				1,500	26	46	1000	240-2403-1-ND	.98	4.23	7.80	240-2403-2-ND	3,000	46.00/M	6,000	43.00/M	MI1206K260R-10
				1,500	31	41	1,018	240-2404-1-ND	.98	4.23	7.80	240-2404-2-ND	3,000	46.00/M	6,000	43.00/M	MI1206K310R-10
				1,500	600	650	79	240-2405-1-ND	.98	4.23	7.80	240-2405-2-ND	3,000	46.00/M	6,000	43.00/M	MI1206K601R-10
				1,500	90	154	867	240-2406-1-ND	.98	4.23	7.80	240-2406-2-ND	3,000	46.00/M	6,000	43.00/M	MI1206K900R-10
				2,000	500	500	100	240-2407-1-ND	.98	4.23	7.80	240-2407-2-ND	3,000	46.00/M	6,000	43.00/M	MI1206L501R-10
				3,000	100	149	600	240-2408-1-ND	.97	4.19	7.74	240-2408-2-ND	3,000	45.00/M	6,000	43.00/M	HI1206N101R-10
				3,000	80	131	800	240-2409-1-ND	.98	4.23	7.80	240-2409-2-ND	3,000	46.00/M	6,000	43.00/M	HI1206N800R-10
				4,000	120	144	300	240-2410-1-ND	.90	3.92	7.23	240-2410-2-ND	3,000	42.00/M	6,000	40.00/M	HI1206P121R-10
	3.20	1.60	1.35	**6,000**	160	229	250	240-2411-1-ND	1.26	5.48	10.11	240-2411-2-ND	2,000	59.00/M	6,000	56.00/M	HI1206T161R-10
	3.20	1.60	1.10	**6,000**	50	70	1,000	240-2412-1-ND	.48	2.06	3.81	240-2412-2-ND	3,000	22.00/M	6,000	21.00/M	HI1206T500R-10
				300	915	2,505	41	240-2413-1-ND	1.10	4.75	8.76	240-2413-2-ND	3,000	51.00/M	6,000	48.00/M	HZ1206C202R-10
				400	1,000	1,000	100	240-2414-1-ND	.90	3.92	7.23	240-2414-2-ND	3,000	42.00/M	6,000	40.00/M	HZ1206D102R-10
				500	950	1,564	57	240-2548-1-ND	.98	4.23	7.80	240-2548-2-ND	3,000	46.00/M	6,000	43.00/M	HZ1206E152R-10
				500	600	674	75	240-2415-1-ND	.90	3.92	7.23	240-2415-2-ND	3,000	42.00/M	6,000	40.00/M	HZ1206E601R-10
1210	3.20	2.50	1.40	**1,500**	60	100	900	240-2416-1-ND	1.48	6.42	11.85	240-2416-2-ND	3,000	69.00/M	6,000	65.00/M	MI1210K600R-10
1612	4.06	3.05	2.28	**10,000**	56	81	940	240-2417-1-ND	5.63	24.38	45.00	240-2417-2-ND	2,500	270.00/M	5,000	254.00/M	DM1612X560R-10
				10,000	56	81	1000	240-2499-1-ND	4.15	17.99	33.21	240-2499-2-ND	5,000	183.00/M	10,000	177.00/M	HI1612X560R-10
1806	4.50	1.52	1.60	**3,000**	91	150	1,000	240-2541-1-ND	1.51	6.55	12.09	240-2541-2-ND	2,000	71.00/M	6,000	66.00/M	HI1806N910R-10
	4.50	1.60	1.60	**300**	150	223	871	240-2418-1-ND	1.53	6.65	12.27	240-2418-2-ND	2,000	72.00/M	6,000	67.00/M	LI1806C151R-10
				500	100	166	966	240-2419-1-ND	1.52	6.60	12.18	240-2419-2-ND	2,000	71.00/M	6,000	67.00/M	LI1806E101R-10
				500	80	117	1,100	240-2420-1-ND	1.54	6.68	12.33	240-2420-2-ND	2,000	72.00/M	6,000	68.00/M	LI1806E800R-10
				6,000	60	92	1,000	240-2421-1-ND	1.66	7.18	13.26	240-2421-2-ND	2,000	77.00/M	6,000	73.00/M	HI1806T600R-10
				1,500	1,000	1,390	135	240-2579-1-ND	4.48	19.42	35.85	240-2579-2-ND	2,000	209.00/M	6,000	197.00/M	HZ1806K102R-10
				1,000	80	119	903	240-2552-1-ND	1.61	6.97	12.87	240-2552-2-ND	2,000	75.00/M	6,000	71.00/M	MI1806J800R-10
1812	4.50	3.20	1.40	**400**	120	186	738	240-2567-1-ND	2.58	11.18	20.64	240-2567-2-ND	2,500	120.00/M	5,000	114.00/M	LI1812D121R-10
				1,500	120	170	900	240-2422-1-ND	2.68	11.60	21.42	240-2422-2-ND	2,500	125.00/M	5,000	118.00/M	MI1812K121R-10
				6,000	80	108	1,000	240-2423-1-ND	2.87	12.45	22.98	240-2423-2-ND	2,500	134.00/M	5,000	126.00/M	HI1812T800R-10
	4.50	3.20	2.30	**8,000**	100	139	800	240-2543-1-ND	2.83	12.27	22.65	240-2543-2-ND	2,500	132.00/M	5,000	125.00/M	HI1812V101R-10
2220	5.59	5.08	1.52	**4,000**	170	256	500	240-2424-1-ND	4.86	21.08	38.91	240-2424-2-ND	2,000	227.00/M	6,000	214.00/M	HI2220P171R-10
			1.80	**4,000**	250	350	200	240-2425-1-ND	5.69	24.64	45.48	240-2425-2-ND	2,000	265.00/M	6,000	250.00/M	HI2220P251R-10
			1.97	**4,000**	550	851	300	240-2426-1-ND	10.07	43.62	80.52	240-2426-2-ND	2,000	470.00/M	6,000	443.00/M	HI2220P551R-10

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Size Code	Dimensions – mm L	W	H	Current Rating Max. (mA) Continuous	Typical Impedance @ 100MHz (Ω)	Typical Peak Impedance (Ω)	Peak Impedance Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Steward Part No.
2220	5.59	5.08	3.05	**4,000**	600	600	100	240-2427-1-ND	7.51	32.53	60.06	240-2427-2-ND	2,000	350.00/M	6,000	330.00/M	HI2220P601R-10
			3.05	**4,000**	700	700	100	240-2428-1-ND	7.43	32.19	59.43	240-2428-2-ND	2,000	347.00/M	6,000	327.00/M	HI2220P701R-10
			1.80	**5,000**	150	226	500	240-2429-1-ND	4.86	21.04	38.85	240-2429-2-ND	2,000	227.00/M	6,000	214.00/M	HI2220R151R-10
			3.20	**4,000**	270	390	300	240-2544-1-ND	6.41	27.76	51.24	240-2544-2-ND	2,000	299.00/M	6,000	282.00/M	HI2220P271R-10
			3.20	**4,500**	400	450	150	240-2545-1-ND	6.54	28.34	52.32	240-2545-2-ND	2,000	305.00/M	6,000	288.00/M	HI2220Q401R-10
			1.80	**5,000**	180	270	400	240-2546-1-ND	5.17	22.41	41.37	240-2546-2-ND	2,000	241.00/M	6,000	228.00/M	HI2220R181R-10
			3.20	**5,000**	300	374	200	240-2430-1-ND	6.90	29.90	55.20	240-2430-2-ND	2,000	322.00/M	6,000	304.00/M	HI2220R301R-10
			1.80	**6,000**	100	158	600	240-2431-1-ND	4.92	21.34	39.39	240-2431-2-ND	2,000	230.00/M	6,000	217.00/M	HI2220T101R-10
	5.59	5.08	3.05	**4,000**	600	600	104	240-2432-1-ND	9.88	42.82	79.05	240-2432-2-ND	2,000	461.00/M	6,000	435.00/M	HR2220P601R-10
			3.61	**8,000**	800	910	96	240-2433-1-ND	16.45	71.27	131.58	240-2433-2-ND	2,000	768.00/M	6,000	724.00/M	HR2220V801R-10
3312	8.50	3.05	2.28	**10,000**	100	173	1,059	240-2434-1-ND	10.13	43.88	81.00	240-2434-2-ND	2,500	479.00/M	5,000	452.00/M	DM3312X101R-10
				10,000	100	173	1,000	240-2498-1-ND	5.39	23.34	43.08	240-2498-2-ND	5,000	237.00/M	10,000	230.00/M	HI3312X101R-10

240-2227-ND Surface Mount Ferrite Chip Bead Sample Kit (10-30 samples of each part listed) **$60.00**

EMI Filters, Chokes, Chips and Power Inductor Chips

Surface Mount Four Line Chip Arrays for Differential Signal Filtering

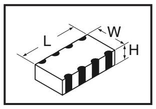

Features: • Small footprint • Rugged construction • Broad range of impedance values • Good high frequency performance (peaks well above 100MHz) • Lower installation cost (one pick and place motion instead of four discrete installations) • Equivalent performance to four 0603 sized chips

Size Code	Dimensions – mm L	W	H	Typical Impedance (Ω) @ 100MHz	Typical Peak Impedance (Ω)	Peak Impedance Frequency (MHz)	Number of Filtered Circuits	Current Rating I Max. (mA) Continuous	Digi-Key Part No.	Cut Tape Price Each 1	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Qty.	Pricing	Steward Part No.
1206	3.20	1.60	0.80	1,000	1,129	175	4	200	240-2483-1-ND	1.21	1.05	.97	240-2483-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206B102R-10
				600	761	214	4	200	240-2482-1-ND	1.21	1.05	.97	240-2482-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206B601R-10
				120	211	559	4	300	240-2480-1-ND	1.21	1.05	.97	240-2480-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206C121R-10
				300	450	500	4	400	240-2481-1-ND	1.21	1.05	.97	240-2481-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206D301R-10
				60	133	1,103	4	400	240-2539-1-ND	1.21	1.05	.97	240-2539-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206D600R-10
				30	56	1,161	4	500	240-2479-1-ND	1.21	1.05	.97	240-2479-2-ND	3,000	561.00/M	6,000	529.00/M	9,000	513.00/M	DA1206E300R-10

Single Line Surface Mount Differential Mode Bead Assemblies

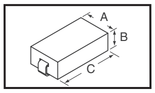

Steward SMT Bead Assemblies provide filtering in circuits carrying up to 10 Amps continuous current. Products are offered for low frequency and high frequency EMI filtering. The robust construction and low DCR are well suited for applications operating in extreme conditions or applications that are sensitive to added circuit DCR.

Features: • 10 Amps Continuous Operating Current Capability • Very Low DCR • Broadband (28F) and Low Frequency (35F) parts available

Size Code	Dimensions – mm A	B	C	Typical Impedance (Ω) @ 100MHz	@ 500MHz	Peak Impedance Frequency (MHz)	DCR Max. (Ω)	Rated I Max. Continuous (mA)	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Steward Part No.
1612	3.05	2.54	4.06	36	34	13	.00075	10,000	240-2520-1-ND	2.53	10.97	20.25	240-2520-2-ND	2,500	118.00/M	5,000	111.00/M	35F0121-0SR-10
				48	53	800	.00075	10,000	240-2435-1-ND	2.76	11.94	22.05	240-2435-2-ND	2,500	129.00/M	5,000	121.00/M	28F0121-0SR-10
3312	3.05	2.54	8.51	75	67	17	.001	10,000	240-2521-1-ND	3.13	13.57	25.05	240-2521-2-ND	2,500	146.00/M	5,000	138.00/M	35F0121-1SR-10
				96	115	833	.001	10,000	240-2436-1-ND	3.45	14.93	27.57	240-2436-2-ND	2,500	161.00/M	5,000	152.00/M	28F0121-1SR-10
3318	4.57	2.54	8.51	115	123	900	.001	10,000	240-2511-1-ND	3.18	13.80	25.47	240-2511-2-ND	2,500	149.00/M	5,000	140.00/M	28F0181-1SR-10

Power Inductor Chip / Monolithic Surface Mount

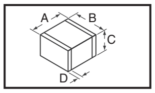

Steward's DI2220V301R-10 is a surface mount, high current power inductor (the industry's smallest package) with exceptional performance under DC Bias **Features:** • Very low DCR provides superior thermal performance under DC bias • Compact, monolithic component produces flat inductance over the driven current range (from 3 to 8 amps) comparable to a larger, heavier, wire-wound toroidal inductor • EMI resistant, fully shielded internal coil • Tuned to work with high frequency multiphase DC-DC converters • Mounting can be on back side of PC boards • Low profile, small footprint and vibration resistant

Size Code	Dimensions – mm A	B	C	D	L @ 2MHz Typical nH (± 10%) 5 Amps	8 Amps	DCR Max. (Ω)	Rated I Max. Continuous (mA)	Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Steward Part No.
2220	5.59	5.08	3.61	0.76	300	270	0.010	8,000	240-2484-1-ND	1.60	1.39	1.28	240-2484-2-ND	2,000	703.00/M	DI2220V301R-10

Miniature High Current Common Mode Choke Chip Beads

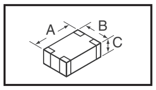

Steward's monolithic surface mount common mode chokes are designed for power and data line EMI filtering where high current, small size or high frequency performance is required.

Features: • Low Normal Mode Impedance and Low DCR to minimize signal distortion • Up to 10 Amps continuous operating current capability in an 1812 size • Vibration resistant • Excellent performance beyond 1GHz • Very stable impedance under load

Size Code	Dimensions – mm A	B	C	Typical Impedance Common Mode (Ω) @ 100MHz	@ 500MHz	Peak Impedance Frequency (MHz)	DCR Max. (Ω)	Rated I Max. Continuous (mA)	Cut Tape Digi-Key Part No.	Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Steward Part No.
1812	4.57	3.05	1.60	33	62	2,359	0.003	10,000	240-2455-1-ND	.72	.62	.57	240-2455-2-ND	2,500	332.00/M	5,000	313.00/M	CM1812X330R-10
	4.57	3.05	2.36	60	112	1,519	0.0005	5,000	240-2454-1-ND	.75	.65	.60	240-2454-2-ND	2,500	349.00/M	5,000	329.00/M	CM1812R600R-10
3312	8.50	3.05	2.36	110	168	800	0.005	5,000	240-2500-1-ND	.89	.77	.71	240-2500-2-ND	2,500	413.00/M	5,000	389.00/M	CM3312R111R-10

Common Mode Chip Beads for Power and Signal EMI Filtering

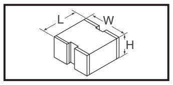

Features: • Monolithic • Compact size • High current carrying capability • Very low DCR to minimize signal distortion • Smaller, lighter, and less susceptible to vibration than wire-wound chokes • Performance peaks beyond 2GHz • Very stable impedance under load

Size Code	Dimensions – mm L	W	H	Typical Impedance Common Mode (Ω) 100MHz	500MHz	Peak Impedance Frequency (MHz)	DCR Max. (Ω)	Current Rating I Max. (mA) Continuous	Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Qty.	Pricing	Steward Part No.
Low Profile Surface Mount - Monolithic																				
1922	4.70	5.60	2.84	33	64	1,783	.003	10,000	240-2456-1-ND	.82	.71	.66	240-2456-2-ND	2,500	381.00/M	5,000	360.00/M	10,000	349.00/M	CM1922X330R-10
3322	8.50	5.60	2.10	61	123	1,581	.009	7,000	240-2457-1-ND	.95	.82	.76	240-2457-2-ND	2,500	440.00/M	5,000	415.00/M	10,000	403.00/M	CM3322U610R-10
	8.50	5.60	2.84	63	114	1,459	.008	10,000	240-2458-1-ND	1.07	.93	.86	240-2458-2-ND	2,500	497.00/M	5,000	469.00/M	10,000	454.00/M	CM3322X630R-10
High Frequency – Low Profile Surface Mount - Monolithic																				
3322	8.50	5.60	2.10	40	121	1,931	.030	4,000	240-2459-1-ND	1.00	.86	.80	240-2459-2-ND	2,500	463.00/M	5,000	436.00/M	10,000	423.00/M	CM3322P400R-10

(Continued)

Common Mode Chokes - Series 05

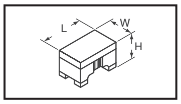

Steward's Series 05 Common Mode Chokes provide excellent filtering capabilities for workload speeds of 25 to 480 Mb/s. Series 05 Common Mode Chokes handle filtering for bandwidth-hungry data lines in USB 2.0 designs. By using these parts on data lines (D+ and D-), they will suppress common mode noise without affecting the integrity of the differential signal. Low normal mode impedance allows signals to pass. Available in package size EIA 0805.

Applications:
• USB 2.0 • Broadband • Video applications • Imaging • High density storage devices • Low normal mode impedance

Size	Dimensions – mm			Typical Impedance Common Mode (Ω)			Typical Peak Impedance	Peak Impedance Frequency	DCR Max.	Current Rating I Max. (mA)	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel				Steward
Code	L	W	H	100MHz	500MHz	1GHz	(Ω)	(MHz)	(Ω)	Continuous	Part No.	10	50	100	Part No.	Qty.	Pricing	Qty.	Pricing	Part No.
0805	2.00	1.20	1.20	90	340	435	445	1,405	0.30	400	240-2568-1-ND§	1.97	1.71	1.58	240-2568-2-ND	2,000	916.00/M	6,000	864.00/M	CM0805D900R-10
				160	540	684	684	1,000	0.35	300	240-2569-1-ND§	1.97	1.71	1.58	240-2569-2-ND	2,000	916.00/M	6,000	864.00/M	CM0805C161R-10
				220	570	720	724	1,147	0.40	300	240-2570-1-ND§	1.97	1.71	1.58	240-2570-2-ND	2,000	916.00/M	6,000	864.00/M	CM0805C221R-10
				370	730	878	878	1,000	0.50	100	240-2571-1-ND§	1.97	1.71	1.58	240-2571-2-ND	2,000	916.00/M	6,000	864.00/M	CM0805A371R-10

§ 240-2581-ND Series 05 USB Common Mode Sample Kit (20 each of parts denoted) **$10.00**

Common Mode Chokes - Low Frequency Series LF

Applications: • Medical Equipment • Telecom • Automotive

Features: • Low Frequency Peak Impedance • Up to 13,200Ω of Peak Impedance

Fig. 1

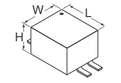

Fig. 2

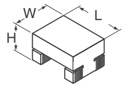

Fig. 3

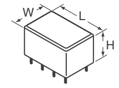

	Size	Dimensions – mm			Typical Impedance Common Mode (Ω)		Peak Impedance Frequency	Peak Impedance	DCR Max.	Rated I Max. Continuous	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel				Steward
Fig.	Code	L	W	H	4MHz	100MHz	(MHz)	(Ω)	(Ω)	(mA)	Part No.	10	50	100	Part No.	Qty.	Pricing	Qty.	Pricing	Part No.
1	2824	7.5	5.5	3.8	8,900	400	2	13,200	1.3000	200	240-2572-1-ND§	6.54	5.67	5.24	240-2572-2-ND	1,500	3051.00/M	6,000	2877.00/M	CM2824B103R-10
					570	1,800	80	1,920	0.2600	500	240-2573-1-ND§	6.54	5.67	5.24	240-2573-2-ND	1,500	3051.00/M	6,000	2877.00/M	CM2824E182R-10
					1,400	3,500	45	3,950	0.3000	500	240-2574-1-ND§	3.48	3.02	2.79	240-2574-2-ND	1,500	1622.00/M	6,000	1529.00/M	CM2824E352R-10
					7,000	800	6	7,200	0.2600	500	240-2575-1-ND§	7.16	6.20	5.73	240-2575-2-ND	1,500	3337.00/M	6,000	3146.00/M	CM2824E702R-10
2	1812	5.00	3.50	5.55	1,100	2,800	50	3,500	0.5000	300	240-2576-1-ND§	4.71	4.08	3.77	240-2576-2-ND	2,000	2194.00/M	6,000	2068.00/M	CM1812C282R-10
3	5740	14.48	10.03	10.54	240	100	3	276	0.0013	20,000	240-2577-ND§†	4.63	3.99	3.60	—	—	—	—	—	CM5740Z241B-10

† Bulk Packaging

§ 240-2582-ND Low Frequency Common Mode Sample Kit (10 each of parts denoted).......... **$10.00**

SMD Common Mode Arrays for Power and Signal EMI Filtering

An advanced family of ferrite common mode choke arrays provides electromagnetic interference (EMI) filtering for both power and data lines in one part.

Features: • High continuous operating current capability (5 Amps) • Very low normal mode impedance allows desired signals to pass • Parts have no crosstalk • One single part can be used as a multi-line array or installed as a multi-pass choke in series to multiply impedance • Excellent filters for USB, Firewire and RJ11 to RJ45 Modular Data/Power Port applications • DCR Maximum is 0.020Ω • Will easily fit behind connector port jacks

Fig. 1

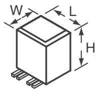

Two Chokes

Fig. 2

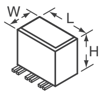

Three Chokes

Fig. 3

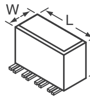

Four Chokes

	Size	Dimensions – mm			Typical Impedance (Ω)		Current Rating I Max. (A)	Digi-Key	Cut Tape Price Each				Digi-Key	Tape and Reel						Steward
Fig.	Code	L	W	H	100MHz	300MHz	Continuous	Part No.	1	10	50	100	Part No.	Qty.	Pricing	Qty.	Pricing	Qty.	Pricing	Part No.
1	2722	6.99	5.72	7.62	150	170	5	240-2470-1-ND	—	1.79	1.55	1.43	240-2470-2-ND	600	499.80	3,000	785.00/M	6,000	762.00/M	CM2722R151R-10
		6.99	5.72	9.53	200	210	5	240-2471-1-ND	—	1.85	1.60	1.48	240-2471-2-ND	1,000	862.00	2,500	812.00/M	5,000	788.00/M	CM2722R201R-10
		6.99	5.72	4.32	80	95	5	240-2472-1-ND	—	1.74	1.51	1.39	240-2472-2-ND	1,000	809.00	5,000	762.00/M	10,000	739.00/M	CM2722R800R-10
2	3822	9.78	5.72	7.62	150	170	5	240-2473-1-ND	—	2.05	1.78	1.64	240-2473-2-ND	600	573.60	3,000	901.00/M	6,000	874.00/M	CM3822R151R-10
		9.78	5.72	4.32	80	95	5	240-2475-1-ND	—	2.00	1.73	1.60	240-2475-2-ND	1,000	931.00	5,000	878.00/M	10,000	851.00/M	CM3822R800R-10
		9.78	5.72	9.53	200	210	5	240-2474-1-ND	—	2.10	1.82	1.68	240-2474-2-ND	500	490.00	2,500	924.00/M	5,000	896.00/M	CM3822R201R-10
3	5022	12.57	5.72	7.62	150	170	5	240-2476-1-ND	—	2.69	2.33	2.16	240-2476-2-ND	600	753.00	3,000	1183.00/M	6,000	1147.00/M	CM5022R151R-10
		12.57	5.72	9.53	200	210	5	240-2477-1-ND	2.97	2.79	2.42	2.23	240-2477-2-ND	375	486.75	1,875	1224.00/M	3,750	1187.00/M	CM5022R201R-10
		12.57	5.72	4.32	80	95	5	240-2478-1-ND	—	2.63	2.28	2.10	240-2478-2-ND	1,000	1225.00	5,000	1155.00/M	10,000	1120.00/M	CM5022R800R-10

Common Mode Chokes for Ultra High Current Power EMI Filtering (Capable of 8 to 75 Amps Continuous Operation)

Fig. 1 – Two Chokes

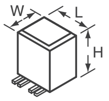

Fig. 2 – Three Chokes

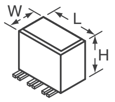

Fig. 3 – Four Chokes

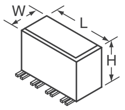

Features: • Surface mount design • Filters groups of signals • Multi pass board layout application can effectively install 2, 3 or 4 chokes in series to multiply impedance up to 1000Ω at 100MHz • High continuous operating current capability (8 Amps) • Will fit behind RJ45 Jack • Eliminates the need for an expensive filtered connector • Surface mount • Very low DCR

Fig. 4 – One Choke

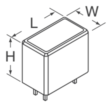

Features: • High continuous operating current capability (10 – 20 Amps) • Compact size • Parts available in both thru-hole (B) and surface mount (R) versions

Fig. 5

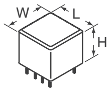

Features: • Can be used as multi-pass device to multiply impedance • Parts available in both thru-hole (B) and surface mount (R) versions

Fig. 6 – One Choke

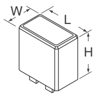

Features: • High continuous operating current capability up to 75A • Small footprint • Smaller and lighter than older style wire wound high current chokes • Very low DCR • Stable under load

Fig. 7 – One Choke

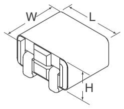

Features: • Surface mount design • High continuous operating current (15 Amps) • Low profile • Low DCR • Resistant to board flex stress

	Size	Dimensions – mm			Common Mode Impedance (Ω)		Current Rating I Max. (A)	Digi-Key	Cut Tape Price Each				Digi-Key	Tape and Reel						Steward
Fig.	Code	L	W	H	100MHz	300MHz	Continuous	Part No.	1	10	50	100	Part No.	Qty.	Pricing	Qty.	Pricing	Qty.	Pricing	Part No.
								High Current Surface Mount												
1	3032	7.62	8.13	9.45	200	205	8	240-2461-1-ND§	—	2.14	1.85	1.71	240-2461-2-ND	400	398.00	2,000	939.00/M	4,000	910.00/M	CM3032V201R-10
		7.62	8.13	14.48	300	295	8	240-2462-1-ND§	—	3.28	2.85	—	240-2462-2-ND	100	153.00	500	721.00	1,000	1398.00	CM3032V301R-10
		7.62	8.13	5.72	120	128	8	240-2538-1-ND	—	1.99	1.72	1.59	240-2538-2-ND	400	370.00	2,000	872.00/M	4,000	846.00/M	CM3032V121R-10
2	4732	11.94	8.13	9.45	200	220	8	240-2465-1-ND	—	2.34	2.03	1.87	240-2465-2-ND	400	435.60	2,000	1026.00/M	4,000	995.00/M	CM4732V201R-10
		11.94	8.13	14.48	300	305	8	240-2466-1-ND	—	3.57	3.10	—	240-2466-2-ND	150	249.90	750	1178.25	1,500	1523.00/M	CM4732V301R-10

(Continued)

Common Mode Chokes for Ultra High Current Power EMI Filtering (Capable of 8 to 75 Amps Continuous Operation) *(Cont.)*

Fig.	Size Code	Dimensions – mm L	W	H	Common Mode Impedance (Ω) 100MHz	300MHz	Current Rating I Max. (A) Continuous	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Qty.	Pricing	Steward Part No.
3	6032	15.24	8.13	9.45	200	210	8	240-2468-1-ND§	—	2.91	2.52	2.33	240-2468-2-ND	250	338.75	1,250	1278.00/M	2,500	1239.00/M	CM6032V201R-10
		15.24	8.13	14.48	300	300	8	240-2469-1-ND§	—	4.28	3.71	—	240-2469-2-ND	100	199.70	500	941.50	1,000	1826.00	CM6032V301R-10
4	2545	11.38	6.30	9.32	170	180	10	240-2460-1-ND	—	1.47	1.27	1.18	240-2460-2-ND	400	273.20	2,000	644.00/M	4,000	624.00/M	CM2545X171R-10
	3440	10.03	8.51	9.32	170	170	20	240-2463-1-ND§	1.96	1.84	1.60	1.47	240-2463-2-ND	375	321.38	1,875	808.00/M	3,750	783.00/M	CM3440Z171R-10
5	4545	11.38	11.38	9.32	130	145	10	240-2464-1-ND	—	1.65	1.43	1.32	240-2464-2-ND	400	307.60	2,000	725.00/M	4,000	703.00/M	CM4545Z131R-10
	5740	14.48	10.03	9.32	170	190	20	240-2467-1-ND§	2.48	2.33	2.02	1.86	240-2467-2-ND	375	406.88	1,875	1023.01/M	3,750	992.00/M	CM5740Z171R-10
7	2021	5.60	5.00	2.85	33	35	15	240-2502-1-ND	—	.34	.30	.27	240-2502-2-ND	2,500	157.00/M	5,000	148.00/M	10,000	143.00/M	CM2021Y330R-10
	3421	8.68	5.60	2.85	60	65	15	240-2501-1-ND	—	.34	.30	.27	240-2501-2-ND	2,500	157.00/M	5,000	148.00/M	10,000	143.00/M	CM3421Y600R-10
										High Current Thru Hole										
4	2545	11.38	6.30	9.32	170	175	10	240-2485-ND†	1.22	1.02	.88	.79	—	—	—	—	—	—	—	CM2545X171B-10
5	4545	11.38	11.38	9.32	130	145	10	240-2486-ND†	1.70	1.41	1.22	1.10	—	—	—	—	—	—	—	CM4545Z131B-10
										Ultra High Current Thru Hole										
4	3440	10.03	8.51	9.32	170	175	20	240-2487-ND§†	1.57	1.31	1.13	1.01	—	—	—	—	—	—	—	CM3440Z171B-10
5	5740	14.48	10.03	9.32	170	175	20	240-2490-ND§†	2.06	1.71	1.47	1.33	—	—	—	—	—	—	—	CM5740Z171B-10
6	5441	13.72	10.41	15.24	160	150	75	240-2488-ND§†	2.16	1.80	1.55	1.40	—	—	—	—	—	—	—	CM5441Z161B-10
		13.72	10.41	10.52	100	112	75	240-2489-ND§†	1.81	1.50	1.29	1.17	—	—	—	—	—	—	—	CM5441Z101B-10

† Bulk Packaging

§ 240-2228-ND High Current (200mA ~ 75A) Common Mode Choke Sample Kit (4 each of parts denoted)........ **$45.00**

Common Mode Chokes for Data/Signal Lines and CAN-Bus Applications

Automotive, Medical, Industrial, Consumer Electronics, etc.
Strong low and high frequency impedance!

Surface mount chokes for Controller Area Networks (CAN-Bus) and other common mode EMI filtering applications. Current compensated surface mount chokes, filter common mode noise currents and minimize emissions from high speed data lines. Also suppresses interference with on-board electronics. Available in 1812 and 2824 sizes. Four chokes offer peak impedance below 10MHz. Over 12,000Ω at 2MHz. Operating Temp. Range: -40°C to +125°C for ≥ 1,000μH.

Fig. 1

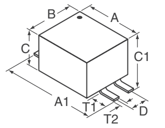

Fig. 2

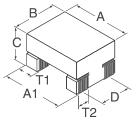

Fig.	A	A1 Max.	B	C	C1 Max.	D	T1	T2	Steward Part No. Family
1	7.50	9.00	5.50	3.80	4.90	2.54	1.75	0.50	CC2824xxxxR-x0
2	5.00	5.20	3.50	3.55	—	1.70	1.00	1.00	CC1812xxxxR-x0

Fig.	Lp Inductance – μH Test Conditions	Min.	Nom.	Max.	Typical Peak Impedance Ω @ MHz	TRP 100kHz/ 50mV	Hi-Pot (VAC) 0.5 mA, 2 sec.	DCR Typical (Ω)	Idc (mA)	Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Steward Part No.
1	100kHz / 50mV	3.5	5.0	6.5	388 @ 500	1 : 1 ± 5%	250	0.10	1,200	240-2445-1-ND‡	6.54	5.67	5.24	240-2445-2-ND	1,500	3051.00/M	CC2824J502R-10
	100kHz / 50mV	7.7	11.0	14.3	780 @ 200	1 : 1 ± 5%	250	0.12	800	240-2446-1-ND‡	5.32	4.61	4.26	240-2446-2-ND	1,500	2480.00/M	CC2824E113R-10
	100kHz / 50mV	17.5	25.0	32.5	1,971 @ 100	1 : 1 ± 5%	250	0.13	800	240-2447-1-ND‡	6.54	5.67	5.24	240-2447-2-ND	1,500	3051.00/M	CC2824E253R-10
	100kHz / 50mV	35.0	51.0	66.3	3,805 @ 50	1 : 1 ± 5%	250	0.16	800	240-2448-1-ND‡	3.48	3.02	2.79	240-2448-2-ND	1,500	1622.00/M	CC2824E513R-10
	100kHz / 50mV	329.0	470.0	611.0	8,580 @ 5	1 : 1 ± 5%	750	0.20	700	240-2449-1-ND‡	7.16	6.20	5.73	240-2449-2-ND	1,500	3337.00/M	CC2824E474R-10
	100kHz / 50mV	700.0	1,000.0	1,500.0	4,250 @ 7	1 : 1 ± 5%	750	0.20	700	240-2450-1-ND‡	7.00	6.07	5.60	240-2450-2-ND	1,500	3266.00/M	CC2824E105R-10
	10kHz / 50mV	1,540.0	2,200.0	3,300.0	5,278 @ 5	1 : 1 ± 5%	750	0.40	500	240-2451-1-ND‡	7.00	6.07	5.60	240-2451-2-ND	1,500	3266.00/M	CC2824D225R-10
	10kHz / 50mV	3,290.0	4,700.0	7,050.0	12,300 @ 2	1 : 1 ± 5%	750	0.55	400	240-2452-1-ND‡	6.54	5.67	5.24	240-2452-2-ND	1,500	3051.00/M	CC2824B475R-10
2	100kHz / 50mV	35.7	51.0	66.3	3,530 @ 40	1 : 1 ± 5%	250	0.50	200	240-2453-1-ND‡	4.71	4.08	3.77	240-2453-2-ND	2,000	2194.00/M	CC1812C513R-10

‡ 240-2583-ND CAN-Bus Common Mode Sample Kit (5 each of parts denoted)........ **$10.00**

Differential Mode Surface Mount and Through Hole Ferrite EMI Filters

Differential Mode Multi-Line Arrays for Power EMI Filtering

3, 4, 5, and 8 Line Filters Rated up to 10 Amps Continuous Operation

Fig. 1 – Surface Mount (R)

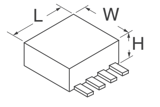

Fig. 2 – Through Hole (T)

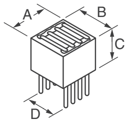

These multi-line ferrite products provide economical EMI filtering of differential mode noise in surface mount and through hole PCB applications. They are designed to provide high frequency suppression of both common and differential mode EMI noise on groups of data/power lines. The surface mount differential mode EMI filters are rated for up to 9 Amps continuous operation per filtered line (channel) and the through hole filters are rated up to 10 Amps continuous operation per line. Rugged construction provides protection against transient events as well as much higher peak current handling capability than most other EMI suppression devices. Low DCR.

Surface Mount

Fig.	Dimensions – mm L	W	H	Typical Impedance (Ω) 100MHz	300MHz	Current Rating I Max. (A) Continuous	No. of Lines	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Qty.	Pricing	Steward Part No.
1	8.33	10.87	6.35	200	210	9	3	240-2441-1-ND	16.11	69.83	128.91	240-2441-2-ND	450	338.40	2,250	709.00/M	4,500	688.00/M	29F0330-2SR-10
	10.87	10.87	6.35	200	210	8	4	240-2443-1-ND	17.27	74.82	138.12	240-2443-2-ND	450	362.70	2,250	760.00/M	4,500	737.00/M	29F0430-2SR-10
	11.43	4.50	4.19	119	120	6	8	240-2444-1-ND	25.80	111.78	206.37	240-2444-2-ND	900	1083.60	4,500	1135.00/M	9,000	1101.00/M	29F0818-1SR-10
	4.83	4.50	4.19	119	128	6	3	240-2515-1-ND	15.83	68.58	126.60	240-2515-2-ND	900	665.10	4,500	696.00/M	9,000	675.00/M	29F0318-1SR-10
	6.10	4.50	2.92	83	83	6	4	240-2517-1-ND	14.73	63.85	117.87	240-2517-2-ND	900	619.20	4,500	648.00/M	9,000	629.00/M	29F0418-0SR-10
	6.10	4.50	4.19	119	118	6	4	240-2442-1-ND ***NEW!***	15.08	65.33	120.60	240-2442-2-ND ***NEW!***	900	633.60	4,500	663.00/M	9,000	643.00/M	29F0418-1SR-10
	10.87	10.87	8.89	290	299	9	4	240-2518-1-ND	20.86	90.38	166.86	240-2518-2-ND	400	389.20	2,000	918.00/M	4,000	890.00/M	29F0430-4SR-10
	11.43	4.50	2.92	75	81	6	8	240-2519-1-ND	25.02	108.42	200.16	240-2519-2-ND	900	1051.20	4,500	1101.00/M	9,000	1068.00/M	29F0818-0SR-10

Through Hole

Fig.	No. of Lines	Dimensions – mm A	B	C	D	Current Rating I Max. (A) Continuous	Typical Impedance (Ω) @ 100MHz	@ 300MHz	Digi-Key Part No.	Price Each 1	10	50	100	Steward Part No.
2	3	7.62	5.08	10.44	2.54	8	266	288	240-2514-ND	.85	.71	.61	.55	29F0303-0T0-10
	3	8.34	10.88	10.57	7.62	10	342	400	240-2516-ND	1.13	.94	.81	.73	29F0328-0T0-10
	4	10.87	10.87	10.57	7.62	10	342	400	240-2494-ND	1.31	1.09	.94	.85	29F0428-0T0-10
	4	10.87	5.49	10.44	2.54	8	245	290	240-2495-ND	1.00	.83	.72	.65	29F0429-0T0-10
	5	13.41	10.87	10.57	7.62	10	342	400	240-2496-ND	1.97	1.64	1.41	1.27	29F0528-0T0-10

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Axial Lead Ferrite Beads for Broad Band EMI Filtering

Through Hole Applications

Steward's two-terminal axial lead ferrite beads provide economical filtering for differential mode EMI suppression applications. Constructed using a continuous 22 gauge conductor, these devices are able to withstand high peak currents that can destroy other surface mount devices. Through hole installation. Low DCR.

Fig. 1

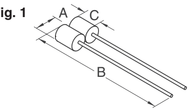

Fig. 2

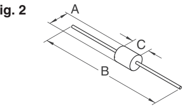

Fig.	Dimensions – mm A	B	C	Typical Impedance (Ω) @ 100MHz	@ 300MHz	Current Rating I Max. (A) Continuous	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Qty.	Pricing	Steward Part No.
1	3.51	25.40	4.45	143	165	5	240-2437-1-ND	.98	4.23	7.80	240-2437-2-ND	1,800	46.00/M	5,400	43.00/M	28J0138-11R-10
2	3.51	59.00	4.45	75	80	5	240-2438-1-ND	.98	4.24	7.83	240-2438-2-ND	4,500	46.00/M	9,000	43.00/M	28L0138-10R-10
	3.51	59.00	8.89	135	138	5	240-2439-1-ND	.91	3.93	7.26	240-2439-2-ND	4,500	42.00/M	9,000	40.00/M	28L0138-40R-10
	3.51	59.00	13.97	220	210	5	240-2440-1-ND	1.80	7.82	14.43	240-2440-2-ND	4,500	84.00/M	9,000	79.00/M	28L0138-70R-10
	3.51	59.00	9.53	153	160	5	240-2512-1-ND	.95	4.10	7.56	—	—	—	—	—	28L0138-50R-10
	3.51	59.00	5.23	86	78	5	240-2513-1-ND	.96	4.18	7.71	240-2513-2-ND	4,500	45.00/M	9,000	42.00/M	28L0138-80R-10

Wound Bead Chokes for Differential Mode EMI Filtering

Broad Band EMI Filtering - Through Hole

Fig. 1

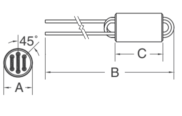

Fig. 2

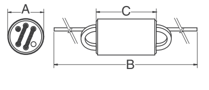

Fig. 3

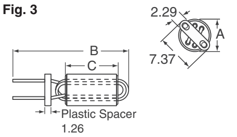

Fig. 4

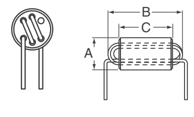

Fig. 5

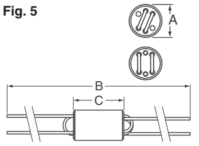

Multi-aperture, multiple turn ferrite chokes. Three turn configurations provide lossy impedance over 1,000Ω. These parts offer excellent broadband frequency performance. Current rating is up to 5 Amps continuous operation.

Fig.	Dimensions – mm A	B	C	Typical Impedance (Ω) @ 50MHz	@ 100MHz	Digi-Key Part No.	Pricing 1	10	50	100	Steward Part No.
1	6.00	50.53	10.00	845	1,000	240-2492-ND	.39	3.27	14.09	25.36	28C0236-0EW-10
2	6.00	86.46	10.00	700	835	240-2491-ND	.39	3.27	14.09	25.36	28C0236-0BW-10
3	6.00	20.96	10.00	845	1,000	240-2493-ND	.51	4.26	18.38	33.08	28C0236-0JW-10
4	5.99	14.99	10.00	680	835	240-2510-ND	.58	4.83	20.83	37.49	28C0236-0BS-10
5	5.99	86.46	10.00	360	460	240-2509-ND	.51	4.19	18.08	32.54	28C0236-0DW-10

Ferrite EMI Disks and Plates with Adhesive

Steward's Ferrite Disks and Plates provide a simple, cost-effective solution for radiated and inductively coupled electromagnetic interference. After the PC board soldering process, a ferrite disk or plate can be installed directly on the source of EMI (such as active devices or unwanted antennas). Can also be utilized either as inductively-coupled components or EMI shields on PC board components and traces.

Inductive coupling occurs when the ferrite affects the conducted wave form leaving the active component. The rise time of the wave form is effectively slowed by the ferrite, and the overshoot and associated ringing are attenuated. EMI shielding occurs when the ferrite absorbs the radiated EMI emissions from active components, effectively protecting other boards or components in the vicinity from radiated contamination. Performance varies with each application.

Features: • Parts have 3M VHB double-sided permanent adhesive • Can be used to locate unwanted EMI antennas • Flat Flex and Ribbon Cable Shields • Provides retrofit auxiliary EMI attenuation

Fig. 1 – Disks

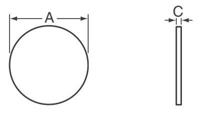

Fig. 2 – Plates

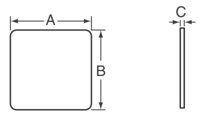

§ 240-2247-ND Ferrite EMI Disk and Plate Kit (5 each of parts denoted)
"Sample kit contains parts with temporary adhesives so they can be repositioned" **$30.00**

Fig.	Dimensions – mm A	B	C	Digi-Key Part No.	Pricing 1	10	50	Steward Part No.
Disks								
1	20.00	—	1.27	240-2248-ND§†	.14	1.20	5.16	HM0787-100
	20.00	—	1.91	240-2249-ND§†	.17	1.42	6.11	HM0787-200
	35.56	—	1.91	240-2250-ND§†	.35	2.87	12.36	HM1400-200
	35.56	—	2.54	240-2251-ND§†	.43	3.60	15.51	HM1400-300
	16.51	—	1.27	240-2252-ND§	.13	1.06	4.55	MM0650-100
	20.00	—	1.27	240-2253-ND§	.14	1.20	5.16	MM0787-100
	20.00	—	1.91	240-2254-ND§	.17	1.42	6.11	MM0787-200
	35.56	—	1.91	240-2255-ND§	.35	2.89	12.45	MM1400-200
	35.56	—	2.54	240-2256-ND§	.44	3.61	15.55	MM1400-300
Plates								
2	26.42	26.42	1.27	240-2257-ND§†	.21	1.74	7.49	HP1040-100
	26.42	26.42	1.91	240-2258-ND§†	.27	2.23	9.61	HP1040-200
	8.00	8.00	2.00	240-2259-ND	.11	.89	3.85	MP0315-200
	26.42	8.89	1.27	240-2260-ND	.13	1.08	4.65	MP0350-000
	11.00	11.00	2.00	240-2261-ND	.12	1.02	4.38	MP0433-000
	13.00	13.00	2.00	240-2262-ND	.14	1.13	4.86	MP0512-200
	21.00	15.00	2.00	240-2263-ND	.18	1.46	6.28	MP0590-200
	15.00	15.00	2.00	240-2264-ND	.15	1.26	5.41	MP0591-200
	19.30	19.30	1.27	240-2265-ND§	.15	1.28	5.50	MP0760-100
	26.42	26.42	1.27	240-2266-ND§	.21	1.74	7.49	MP1040-100
	26.42	26.42	1.91	240-2267-ND§	.27	2.23	9.61	MP1040-200
	38.00	38.00	2.00	240-2268-ND	.48	3.97	17.11	MP1496-000

† For Higher EMI Frequencies

Ferrite Toroid Cores for Transformers and Chokes

Features: Steward 35 and 40 material ferrite toroids provide low losses and high performance in transformers at kHz to low MHz frequencies. They provide high impedance below 10MHz for suppression for undesired signals. The H coating is an epoxy with typical thickness of 0.003 inches. The Hipot rating is 1000 VAC minimum of coating. **Application:** • Switched mode power supplies • Current sensing transformers • DC to DC converters • Telecommunications transformers and chokes • Lighting Ballast • Ground Fault Interrupter Application • EMI filters

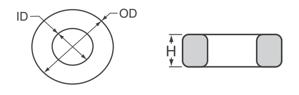

Dimensions – Inches (mm) OD	ID	H	Initial Permeability	AL @ 100kHz (nH per turn squared)	Digi-Key Part No.	Pricing 1	10	50	Steward Part No.
.230 (5.84)	.120 (3.05)	.060 (1.52)	5,000	991	240-2584-ND	.06	.53	2.30	35T0231-00P
.230 (5.84)	.120 (3.05)	.125 (3.18)	5,000	2,066	240-2585-ND	.09	.78	3.38	35T0231-20P
.230 (5.84)	.120 (3.05)	.100 (2.54)	5,000	1,652	240-2586-ND	.09	.72	3.09	35T0231-30P
.300 (7.62)	.125 (3.18)	.188 (4.78)	5,000	4,181	240-2587-ND	.19	1.54	6.64	35T0301-00P
.375 (9.53)	.187 (4.75)	.125 (3.18)	5,000	2,214	240-2522-ND	.18	1.51	6.52	35T0375-10H
.500 (12.70)	.281 (7.14)	.250 (6.35)	5,000	3,659	240-2524-ND	.23	1.94	8.35	35T0501-10H
1.000 (25.40)	.610 (15.50)	.394 (10.00)	5,000	4,830	240-2526-ND	1.19	9.86	42.49	35T1000-00H
1.417 (36.00)	.906 (23.00)	.394 (10.00)	5,000	4,543	240-2528-ND	2.51	20.83	89.77	35T1417-00H
.500 (12.70)	.281 (7.14)	.250 (6.35)	10,000	7,318	240-2532-ND	.27	2.20	9.50	40T0501-10H
1.000 (25.40)	.610 (15.50)	.394 (10.00)	10,000	9,660	240-2534-ND	1.37	11.36	48.97	40T1000-00H
1.417 (36.00)	.906 (23.00)	.591 (15.00)	10,000	13,440	240-2537-ND	3.46	28.71	123.75	40T1417-10H

Steward | a unit of **Laird** TECHNOLOGIES

RoHS COMPLIANT

Broad Band (30 MHz – 900 MHz Optimized) Ribbon and Flex Cable Ferrite Cores for EMI

One Piece Ferrite EMI Cores for Flat Cables: Cable must be inserted into the ferrite cores before cable ends are connected for figures 1 and 2. Parts made from high performance material.
Split Ribbon Cable Core Assemblies with Hinged Plastic Cases: Conveniently contain both ferrite core halves within the same fully assembled, hinged black plastic case. Order one part for each assembly
Split Ribbon Cable Cores with Plastic End Clips: Easy to use where assembled cable connectors prevent the use of one piece ferrite cores. White end clips provide secure closure of ferrite parts onto the flat cable. Tabs with screw holes for mounting the assembly included. Order two parts for each assembly.
Split Ribbon Cable Cores with Metal Clips: Split ferrite cores for flat ribbon cables clamp together with small metal clips that provide secure closure. Order two parts for each assembly.

Fig. 1 – One Piece Ferrite

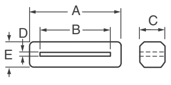

Fig. 2 – One Piece Ferrite

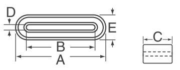

Fig. 3 – Assembly with hinged plastic case

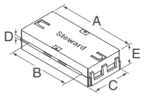

Fig. 4 – Split Ferrite

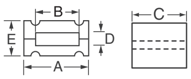

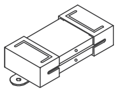

Assembled Example of two plastic clipped parts (_P0)

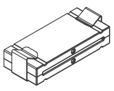

Assembled Example of two metal clipped parts (_M0)

Fig.	Dimensions (mm)					Typical Impedance (Ω)		Digi-Key Part No.	Pricing					Steward Part No.
	A	B	C	D	E	@ 100 MHz	@300 MHz		1	2	10	50	100	
Rectangular Shaped One Piece Ferrite EMI Cores for Flat Cables														
1	8.00	6.00	12.00	0.70	2.70	102	250	240-2320-ND	.12	—	1.04	4.46	8.03	28R0315-200
	11.50	8.00	12.00	0.70	3.00	153	335	240-2155-ND	.14	—	1.20	5.16	9.29	28R0453-200
	12.20	8.00	18.00	1.00	5.50	190	320	240-2156-ND	.25	—	2.04	8.80	15.84	28R0480-000
	15.01	10.00	22.86	1.50	7.49	227	370	240-2229-ND	.41	—	3.36	14.48	26.06	28R0592-010
	17.00	13.00	12.00	0.75	3.50	110	270	240-2157-ND	.18	—	1.48	6.40	11.52	28R0669-000
	22.35	14.00	19.05	1.50	7.75	187	356	240-2082-ND	.51	—	4.22	18.20	32.76	28R0880-000
	22.80	18.70	16.00	0.70	2.80	127	280	240-2161-ND	.21	—	1.75	7.53	13.55	28R0898-200
	28.00	23.00	20.00	0.80	5.80	192	380	240-2162-ND	.50	—	4.16	17.91	32.24	28R1102-100
	28.00	23.00	27.00	1.10	6.10	230	480	240-2325-ND	.65	—	5.39	23.24	41.83	28R1103-000
	31.12	24.77	13.30	1.91	8.26	128	300	240-2327-ND	.49	—	4.07	17.53	31.55	28R1227-100
	31.40	23.00	19.00	1.50	7.75	162	370	240-2328-ND	.66	—	5.45	23.51	42.32	28R1236-000
	31.40	23.00	21.00	1.00	7.75	211	440	240-2329-ND	.75	—	6.24	26.88	48.38	28R1240-010
	38.10	26.67	25.40	1.91	12.07	230	520	240-2084-ND	1.58	—	13.10	56.45	101.61	28R1517-000
	45.08	34.42	28.58	1.52	12.45	260	530	240-2086-ND	2.17	—	17.99	77.53	139.55	28R1775-000
	63.50	52.07	28.58	1.68	12.70	298	588	240-2088-ND	3.03	—	25.11	108.25	194.85	28R1779-000
	63.50	52.07	12.98	1.68	12.70	170	375	240-2335-ND	1.42	—	11.78	50.79	91.42	28R1779-100
	45.72	35.05	27.94	1.52	12.70	260	555	240-2336-ND	2.20	—	18.25	78.65	141.57	28R1800-010
	50.80	40.60	15.20	2.00	12.20	170	380	240-2338-ND	1.25	—	10.39	44.79	80.62	28R2000-010
	55.12	43.69	25.40	1.27	12.70	280	550	240-2090-ND	2.42	—	20.09	86.59	155.86	28R2170-000
	55.12	43.69	12.70	1.27	12.70	170	370	240-2092-ND	1.25	—	10.38	44.73	80.51	28R2170-100
	79.98	68.58	12.70	1.91	11.99	135	318	240-2094-ND	1.59	—	13.21	56.95	102.51	28R3149-000
Oval Shaped One Piece Ferrite EMI Cores for Flat Cables														
2	15.50	13.50	10.00	1.40	3.40	80	216	240-2322-ND	.14	—	1.17	5.03	9.05	28R0610-000
	19.20	15.00	10.00	1.15	5.35	107	258	240-2323-ND	.21	—	1.73	7.48	13.46	28R0756-000
	19.20	15.00	16.00	1.15	5.35	140	308	240-2159-ND	.28	—	2.30	9.93	17.87	28R0756-200
	25.00	18.00	24.00	0.90	7.70	220	430	240-2160-ND	.66	—	5.46	23.54	42.37	28R0984-000
	25.00	18.00	16.00	0.90	7.70	170	370	240-2324-ND	.47	—	3.90	16.83	30.29	28R0984-200
	28.58	23.50	31.00	1.70	7.70	220	430	240-2230-ND	.86	—	7.13	30.73	55.31	28R1127-000
	28.58	23.50	17.00	1.70	7.70	150	330	240-2231-ND	.51	—	4.26	18.36	33.05	28R1127-400
	28.58	23.50	9.70	1.70	7.70	110	265	240-2326-ND	.33	—	2.70	11.64	20.95	28R1127-500
	37.00	27.00	18.25	1.50	8.00	168	380	240-2163-ND	.72	—	6.00	25.85	46.53	28R1141-010
	32.00	25.10	35.00	0.90	7.75	350	700	240-2330-ND	1.16	—	9.61	41.44	74.59	28R1261-100
	32.00	25.10	9.70	0.90	7.75	135	310	240-2331-ND	.39	—	3.21	13.85	24.93	28R1261-200
	34.00	28.00	25.00	1.00	7.00	220	449	240-2332-ND	.82	—	6.81	29.36	52.85	28R1340-200
	36.83	29.58	10.00	0.75	7.75	130	290	240-2164-ND	.45	—	3.71	16.01	28.82	28R1450-100
	37.01	33.00	13.46	0.51	4.50	140	310	240-2333-ND	.39	—	3.19	13.75	24.75	28R1457-400
	42.00	37.50	5.00	0.70	5.00	84	200	240-2334-ND	.22	—	1.81	7.79	14.02	28R1654-010
	49.61	44.00	12.00	1.45	7.62	127	300	240-2165-ND	.60	—	5.01	21.59	38.86	28R1953-000
Split Ribbon Cable Core Assemblies with Hinged Plastic Cases														
3	67.08	53.75	27.53	1.91	16.66	236	480	240-2341-ND	2.75	—	22.79	98.25	176.85	28S2001-2A2
Split Ribbon Cable Cores with Plastic End Clips*														
4	63.50	52.07	28.58	.84	6.35	280	590	240-2097-ND	—	3.26	13.49	58.13	104.63	28S2001-0P0
	76.20	65.28	28.58	.84	6.35	280	600	240-2099-ND	—	3.38	14.00	60.34	108.61	28S2011-0P0
	45.09	34.42	28.58	.84	6.35	250	550	240-2103-ND	—	2.39	9.90	42.66	76.79	28S2022-0P0
Split Ribbon Cable Cores with Metal End Clips (1 Set = 2 Filters and 2 Clips)*														
4	63.50	52.07	28.58	.84	6.35	280	590	240-2096-ND	—	3.26	13.49	58.13	104.63	28S2001-0M0
	76.20	65.28	28.58	.84	6.35	280	600	240-2098-ND	—	3.38	14.00	60.34	108.61	28S2011-0M0
	88.90	78.23	28.58	.84	6.35	240	630	240-2100-ND	—	4.52	18.74	80.79	145.42	28S2012-0M0
	45.09	34.42	28.58	.84	6.35	250	550	240-2102-ND	—	2.39	9.90	42.66	76.79	28S2022-0M0
	38.10	26.67	25.40	.84	6.35	250	520	240-2104-ND	—	2.06	8.55	36.84	66.31	28S2023-0M0
Extra Accessories														
—	Extra Plastic End Clip with Mounting Hole for a Split Ribbon Cable Core							240-2345-ND	.13	—	1.04	4.49	8.08	ASSE001-2
	Extra Metal End Clip for Split Ribbon Cable Core							240-2346-ND	.14	—	1.17	5.06	9.11	ASSE017-2

* ***Note:*** Split ribbon cable cores require two ferrite pieces per one complete assembly (except split cores in fully assembled hinged plastic cases).

240-2507-ND Ferrite EMI Cores for Flat Ribbon and Flex Cables (3-11 each of 36 different sizes) **$60.00**

Steward a unit of Laird Technologies Ferrite EMI Cores for Cables and Wiring Harnesses

Low Frequency (300kHz – 30MHz)
Cores for Round Cables

Steward LFB ferrite material provides excellent impedance at lower frequencies. Optimum EMI attenuation is between 300kHz and 30MHz, however, with additional wire turns, much broader EMI frequencies can be effectively attenuated.

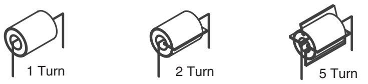

Additional wire turns will multiply impedance.

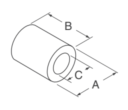

Dimensions (mm)			Net Impedance (Ω)						Digi-Key	Pricing					Steward
A	B	C	@ 1MHz (1 Turn)	@ 1MHz (2 Turn)	@ 1MHz (5 Turn)	@ 5MHz (1 Turn)	@ 5MHz (2 Turn)	@ 5MHz (5 Turn)	Part No.	1	10	50	100	500	Part No.
9.00	7.00	5.00	21	90	558	36	140	867	240-2135-ND§	.15	1.26	5.44	9.79	39.15	LFB090050-000
9.50	19.05	5.10	63	240	1464	86	332	2514	240-2277-ND§	.45	3.71	15.99	28.78	115.11	LFB095051-000
12.70	7.00	7.92	16	70	436	25	102	593	240-2278-ND§	.19	1.55	6.66	11.99	47.97	LFB127079-000
14.27	28.58	6.35	122	490	2842	120	480	2646	240-2279-ND§	1.71	14.14	60.94	109.69	438.75	LFB143064-000
14.27	13.46	6.35	57	220	1169	53	215	1552	240-2136-ND§	.79	6.57	28.30	50.94	203.76	LFB143064-100
15.88	28.58	7.87	105	410	2615	100	390	2305	240-2281-ND§	1.09	9.05	39.00	70.20	280.80	LFB159079-000
17.40	28.58	9.50	91	350	2184	85	340	2044	240-2282-ND§	2.16	17.92	77.25	139.05	556.20	LFB174095-000
18.10	10.00	10.00	31	138	809	29	115	722	240-2283-ND§	.51	4.23	18.25	32.85	131.40	LFB180100-000
18.70	28.58	10.16	91	350	1969	84	330	1863	240-2284-ND§	2.34	19.36	83.44	150.19	600.75	LFB187102-000
22.10	12.70	14.00	30	30	818	28	110	699	240-2137-ND§	.65	5.41	23.30	41.94	167.76	LFB220140-000
25.00	13.00	15.00	34	136	850	26	80	624	240-2285-ND§	.92	7.66	33.00	59.40	237.60	LFB250150-000
25.91	28.58	12.83	106	420	2647	62	240	1487	240-2138-ND§	3.30	27.37	117.96	212.33	849.33	LFB259128-000
28.98	15.21	19.05	34	155	963	22	70	573	240-2286-ND§	1.47	12.16	52.41	94.34	377.37	LFB290190-000
31.00	13.00	19.00	33	143	845	22	88	554	240-2139-ND§	1.45	11.98	51.63	92.93	371.70	LFB310190-000
36.00	15.00	23.00	27	110	653	19	75	438	240-2287-ND	2.80	23.18	99.90	179.82	719.28	LFB360230-300

§ 240-2508-ND Ferrite Low Frequency EMI Cores for Round Cables and Wire Bundles Sample Kit (4-16 each of parts denoted)........ **$60.00**

Ferrite Cylinders and Toroids for Electromagnetic Interference (EMI)

Broad Band (optimized 30MHz – 800MHz +)
Bead Cores for Round Cables and Wire Bundles

One-piece ferrite tubular bead cores for effectively attenuating a broad range of conducted and radiated electromagnetic interference (EMI). Install over round cables or wire bundles. Ferrite beads can be over molded or covered with heat shrink coating if desired. Additional wire turns will multiply impedance. Steward's cylindrical beads for round cables in Broad Band 28 material provide the smallest and most cost effective EMI solution when filtering both common mode and differential mode EMI on internal and external cable assemblies. By using Steward's high performance material, one is able to use the smallest and lowest weight core size possible with the highest EMI attenuation performance available.

Fig. 1

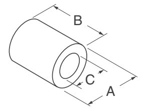

Fig. 2

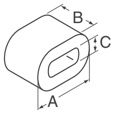

Fig.	Dimensions (mm)			Typical Impedance Ω			Digi-Key	Pricing					Steward
	A	B	C	@ 50MHz	@ 100MHz	@ 300MHz	Part No.	1	10	50	100	500	Part No.
1	6.35	15.88	3.18	131	182	300	240-2289-ND	.14	1.17	5.04	9.07	36.27	28B0250-100
	6.78	14.22	3.99	100	138	260	240-2112-ND	.14	1.12	4.83	8.69	34.74	28B0268-000
	7.00	13.50	3.80	84	146	268	240-2290-ND	.14	1.16	4.99	8.98	35.91	28B0275-000
	8.00	4.78	3.17	69	100	220	240-2291-ND	.12	.97	4.19	7.54	30.15	28B0315-000
	8.00	10.06	3.17	112	158	281	240-2292-ND	.15	1.22	5.26	9.47	37.89	28B0315-100
	8.60	10.00	3.80	85	143	264	240-2293-ND	.15	1.27	5.46	9.83	39.33	28B0339-000
	9.00	20.00	4.75	148	205	360	240-2295-ND	.21	1.76	7.58	13.64	54.54	28B0355-000
	9.53	14.48	5.08	114	154	282	240-2067-ND	.19	1.55	6.69	12.04	48.15	28B0375-100
	9.53	19.05	5.08	146	194	310	240-2113-ND	.22	1.82	7.86	14.15	56.61	28B0375-300
	9.53	4.83	5.08	52	81	200	240-2296-ND	.12	1.02	4.39	7.90	31.59	28B0375-400
	9.75	10.00	3.80	125	159	286	240-2297-ND	.18	1.45	6.26	11.27	45.09	28B0384-000
	9.75	25.00	3.80	254	322	473	240-2298-ND	.30	2.51	10.84	19.51	78.03	28B0384-200
	9.91	15.00	6.35	88	128	248	240-2299-ND	.18	1.50	6.46	11.63	46.53	28B0390-200
	12.00	10.00	3.55	152	195	320	240-2240-ND	.23	1.87	8.08	14.54	58.14	28B0473-000
	12.00	25.00	3.55	318	424	558	240-2241-ND	.43	3.60	15.51	27.92	111.69	28B0473-200
	12.32	25.40	4.88	253	320	450	240-2114-ND	.43	3.60	15.50	27.90	111.60	28B0485-000
	12.70	6.35	7.92	52	83	200	240-2301-ND	.16	1.29	5.58	10.04	40.14	28B0500-100
	14.27	10.16	6.35	101	145	270	240-2302-ND	.26	2.18	9.38	16.88	67.50	28B0562-000
	14.27	28.58	6.35	262	317	470	240-2078-ND	.58	4.81	20.74	37.33	149.31	28B0562-200
	14.27	15.24	7.26	121	173	295	240-2303-ND	.33	2.76	11.91	21.44	85.77	28B0563-000
	14.27	28.57	7.26	197	287	406	240-2304-ND	.55	4.53	19.54	35.17	140.67	28B0563-200
	14.48	5.51	8.51	51	82	200	240-2305-ND	.17	1.41	6.06	10.91	43.65	28B0570-000
	15.00	35.00	5.90	348	450	580	240-2242-ND	.79	6.57	28.31	50.96	203.85	28B0591-200
	15.65	28.58	7.00	232	310	450	240-2306-ND	.68	5.64	24.30	43.74	174.96	28B0616-000
	15.88	14.27	7.87	87	163	273	240-2307-ND	.38	3.11	13.43	24.17	96.66	28B0625-000
	15.88	28.58	7.87	209	280	400	240-2115-ND	.66	5.49	23.65	42.57	170.28	28B0625-100
	16.00	28.00	9.25	171	243	370	240-2308-ND	.60	4.94	21.29	38.32	153.27	28B0631-100
	17.42	6.35	9.52	61	91	214	240-2310-ND	.23	1.93	8.30	14.94	59.76	28B0686-000
	17.42	28.57	9.52	191	242	390	240-2079-ND	.73	6.06	26.11	47.00	188.01	28B0686-200
	18.67	28.58	10.16	197	250	400	240-2080-ND	.83	6.88	29.66	53.39	213.57	28B0735-000
	18.67	14.27	10.16	108	150	270	240-2311-ND	.46	3.79	16.35	29.43	117.72	28B0735-300
	22.10	6.35	13.72	53	85	205	240-2312-ND	.29	2.41	10.39	18.70	74.79	28B0870-000
	22.10	12.70	13.72	80	122	236	240-2116-ND	.49	4.05	17.46	31.43	125.73	28B0870-100
	25.40	12.70	15.49	83	122	247	240-2313-ND	.63	5.21	22.45	40.41	161.64	28B0999-000
	25.40	12.70	12.70	106	151	278	240-2117-ND	.74	6.10	26.29	47.32	189.27	28B1000-000
	25.91	28.58	12.83	104	276	412	240-2081-ND	1.62	13.40	57.78	104.00	415.98	28B1020-100
	28.50	28.58	13.77	218	307	440	240-2243-ND	1.96	16.21	69.89	125.80	503.19	28B1122-100
	29.01	7.49	19.00	53	85	200	240-2118-ND	.47	3.87	16.68	30.02	120.06	28B1142-000
	29.01	13.84	19.00	77	114	235	240-2314-ND	.79	6.55	28.23	50.81	203.22	28B1142-100
	31.12	15.93	19.05	100	140	270	240-2315-ND	1.10	9.15	39.43	70.97	283.86	28B1225-000
	31.12	10.00	19.05	70	110	240	240-2316-ND	.72	6.00	25.88	46.58	186.30	28B1225-300
	31.75	22.22	19.05	134	186	292	240-2119-ND	1.60	13.28	57.24	103.03	412.11	28B1250-000
	36.00	12.70	23.00	78	115	230	240-2317-ND	1.11	9.22	39.76	71.57	286.29	28B1417-200
	39.12	22.22	16.76	204	254	405	240-2319-ND	3.03	25.07	108.05	194.49	777.96	28B1540-000
	50.80	28.70	25.40	218	305	442	240-2244-ND	5.97	49.46	213.20	383.76	1535.04	28B2000-100
	60.96	12.70	35.56	90	135	285	240-2120-ND	3.07	25.46	109.75	197.55	790.20	28B2400-000
2	38.86	28.58	12.95	161	210	347	240-2318-ND	2.25	18.66	80.43	144.77	579.06	28B1531-000
	19.64	12.70	5.10	100	141	273	240-2497-ND	.67	5.54	23.90	43.02	172.08	28B0773-050

240-2505-ND Ferrite Broad Band EMI Cores for Round Cables and Wire Bundles Sample Kit (1-12 each of 36 part sizes) **$60.00**

(Continued)

Steward | a unit of Laird Technologies Ferrite Cylinders and Toroids for Electromagnetic Interference (EMI) *(Cont.)*

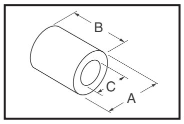

High Frequency (300MHz – 2GHz) Cylindrical Cores for Round Cables

RoHS COMPLIANT

Made from special high frequency material, these ferrite cylinders and toroids have EMI attenuation (impedance) that peaks above 1GHz for most part sizes. Also available in split clamp-on shapes (in plastic cases) listed at the bottom of this page. Size and shape of the part can affect performance and frequency response.

Dimensions (mm)			Net Impedance (Ω)		Digi-Key	Pricing					Steward
A	B	C	@ 500MHz	@ 800MHz	Part No.	1	10	50	100	500	Part No.
7.52	10.00	2.39	136	138	240-2146-ND	.25	2.04	8.80	15.84	63.36	HFB075024-000
9.52	10.00	5.08	74	85	240-2145-ND	.29	2.41	10.40	18.72	74.88	HFB095051-100
9.52	19.00	5.08	135	183	240-2140-ND	.48	3.95	17.03	30.65	122.58	HFB095051-200
12.32	5.00	4.88	56	62	240-2269-ND	.29	2.39	10.29	18.52	74.07	HFB123049-000
12.32	10.00	4.88	110	127	240-2149-ND	.49	4.10	17.66	31.79	127.17	HFB123049-100
12.32	25.40	4.88	287	305	240-2270-ND	1.13	9.39	40.46	72.83	291.33	HFB123049-300
14.27	5.00	6.35	50	64	240-2271-ND	.33	2.78	11.96	21.53	86.13	HFB143064-000
14.27	10.00	6.35	100	113	240-2147-ND	.60	4.93	21.25	38.25	153.00	HFB143064-100
14.27	28.58	6.35	315	306	240-2148-ND	1.56	12.94	55.76	100.37	401.49	HFB143064-300
15.24	10.00	3.38	190	189	240-2151-ND	.78	6.48	27.91	50.24	200.97	HFB152034-000
15.65	20.00	6.99	200	216	240-2273-ND	1.32	10.94	47.16	84.89	339.57	HFB157070-000
15.88	28.58	7.87	290	302	240-2142-ND	1.83	15.13	65.23	117.41	469.62	HFB159079-100
16.00	19.00	9.25	145	155	240-2274-ND	1.11	9.23	39.79	71.62	286.47	HFB160093-200
16.00	27.99	9.25	198	261	240-2152-ND	1.60	13.28	57.25	103.05	412.20	HFB160093-300
16.99	10.00	7.01	115	127	240-2153-ND	.84	6.96	30.00	54.00	216.00	HFB170070-000
16.99	20.00	7.01	215	234	240-2275-ND	1.59	13.21	56.93	102.47	409.86	HFB170070-100
18.67	30.00	10.16	250	276	240-2143-ND	2.40	19.91	85.81	154.46	617.85	HFB187102-100
25.91	28.58	12.83	246	268	240-2154-ND	4.67	38.67	166.66	299.99	1199.97	HFB259128-100

240-2225-ND High Frequency Ferrite Clamp-On and Solid Cylinder Core Sample Kit for Round Cables (one each of 18 different sizes) **$30.00**

Clamp-On, Split Ferrite Cores in Plastic Cases for Round Cables and Wire Bundles

RoHS COMPLIANT

Split ferrite bead cores in clamp-on (or snap-on) plastic cases can be easily used for EMI attentuation where one-piece cores cannot be installed. Clamp-on cores are also convenient for use during EMI testing. Cylinder, round and box shaped plastic cased part shapes available. Additional wire turns will multiply impedance. High performance material.

Fig. 1

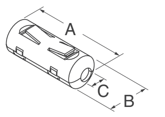

Fig. 2

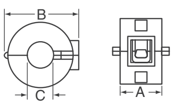

Fig. 3

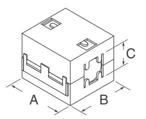

Fig. 4

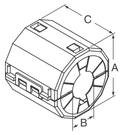

Fig. 5

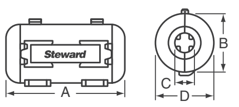

Fig. 6

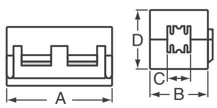

Broad Band Plastic Clamp-On Cores Optimized for 30MHz – 800MHz +

Fig.	Case Color	Plastic Case Dimensions (mm)			Max. Cable Diameter (mm)	Typical Impedance (Ω)		Digi-Key	Price Each				Steward
		A	B	C		100MHz	300MHz	Part No.	1	10	50	100	Part No.
Cylinder Clamp-On Ferrite													
1	Black	25.20	13.00	3.50	3.50	240	400	240-2233-ND**§‡**	1.37	1.14	.98	.89	28A0350-0B2
	White	29.08	12.80	5.44	4.65	170	320	240-2068-ND	.94	.79	.68	.61	28A0392-0A0
	Black	29.08	12.80	5.44	4.65	170	320	240-2070-ND**§‡**	.94	.79	.68	.61	28A0392-0A2
	Black	42.55	14.30	5.35	5.10	277	449	240-2344-ND**§‡**	1.17	.97	.84	.76	28A0434-0A2
	Black	53.39	18.75	4.80	4.50	572	688	240-2245-ND**§‡**	1.76	1.46	1.26	1.13	28A0592-0A2
	Black	53.39	18.75	6.60	6.55	471	575	240-2246-ND**§‡**	1.80	1.49	1.29	1.16	28A0593-0A2
	White	40.36	19.10	9.09	8.95	240	390	240-2065-ND	1.30	1.08	.94	.84	28A0640-0A0
	Black	40.36	19.10	9.09	8.95	240	390	240-2066-ND**§‡**	1.30	1.08	.94	.84	28A0640-0A2
	Black	55.91	24.82	10.00	10.00	348	514	240-2580-ND	3.68	3.05	2.63	2.37	28A0807-0A2
	Black	41.68	21.03	7.00	6.35	270	460	240-2122-ND**§‡**	1.36	1.13	.98	.88	28A2026-0A2
	Black	35.10	18.00	9.00	9.00	220	360	240-2124-ND**§‡**	1.16	.96	.83	.75	28A2736-0A2
	Black	33.70	30.00	13.00	12.85	260	410	240-2127-ND**§‡**	6.08	5.04	4.34	3.91	28A3851-0A2
Round Clamp-On Ferrite													
2	Black	19.90	19.20	8.20	8.13	160	300	240-2123-ND**§‡**	1.86	1.55	1.33	1.20	28A2432-0A2
	Black	13.60	24.55	10.20	10.19	130	250	240-2125-ND**‡**	1.96	1.63	1.40	1.26	28A3039-0A2
	Black	15.40	28.80	13.60	13.55	120	230	240-2128-ND**‡**	2.25	1.87	1.61	1.45	28A4155-0A2
Box Clamp-On Ferrite													
3	White	32.50	29.00	13.00	12.70	280	440	240-2072-ND	2.92	2.43	2.09	1.88	28A2024-0A0
	Black	32.50	29.00	13.00	12.70	280	440	240-2073-ND**§‡**	2.92	2.43	2.09	1.88	28A2024-0A2
	White	32.03	17.58	7.26	6.35	320	510	240-2074-ND	1.28	1.06	.92	.83	28A2025-0A0
	Black	32.03	17.58	7.26	6.35	320	510	240-2075-ND**§‡**	1.28	1.06	.92	.83	28A2025-0A2
	White	32.84	21.77	10.00	9.91	250	420	240-2076-ND	1.67	1.39	1.20	1.08	28A2029-0A0
	Black	32.84	21.77	10.00	9.91	250	420	240-2077-ND**§‡**	1.67	1.39	1.20	1.08	28A2029-0A2
	Black	42.00	29.20	19.30	18.80	210	360	240-2121-ND**§‡**	7.15	5.93	5.11	4.60	28A5776-0A2
Large Round Clamp-On													
4	Black	56.64	19.50	45.00	25.40	425	533	240-2199-ND	9.87	8.18	7.05	6.35	28A5131-0A2

§ 240-2224-ND Split Clamp-On Broad Band EMI Ferrite Cores Small Sample Kit for Round Cables (one each of parts denoted) **$30.00**

‡ 240-2506-ND Split Clamp-On Broad Band EMI Ferrite Cores Large Sample Kit for Round Cables (1-12 each of parts denoted) **$60.00**

High Frequency (300MHz – 2GHz) Clamp-On Ferrite Cores

Fig.	Case Color	Plastic Case Dimensions (mm)				Max. Cable Diameter (mm)	Net Impedance (Ω)		Digi-Key	Price Each				Steward
		A	B	C	D		500MHz	800MHz	Part No.	1	10	50	100	Part No.
Cylinder Clamp-On Ferrite														
5	Black	29.30	12.80	5.30	12.40	4.65	152	168	240-2129-ND	1.11	.92	.80	.72	HFA100049-0A2
		41.68	21.03	8.13	21.03	6.35	340	281	240-2132-ND	2.63	2.19	1.89	1.70	HFA150068-0A2
		40.36	19.10	9.09	20.80	8.95	260	262	240-2130-ND	2.42	2.01	1.73	1.56	HFA163090-0A2
Box Clamp-On Ferrite														
6	Black	32.50	17.88	7.00	18.39	6.35	350	339	240-2131-ND	2.66	2.21	1.90	1.71	HFA150066-0A2
		32.64	21.77	10.00	21.84	9.91	290	280	240-2133-ND	3.60	2.99	2.58	2.32	HFA187102-0A2
		32.51	29.01	13.00	29.60	12.70	315	275	240-2134-ND	6.64	5.51	4.75	4.28	HFA259131-0A2

Panasonic

EMI Bead Cores (For Electromagnetic Interference)

SPECIFICATIONS: • DC Resistance: 10mΩ maximum • **Insulation Resistance:** 10MΩ minimum

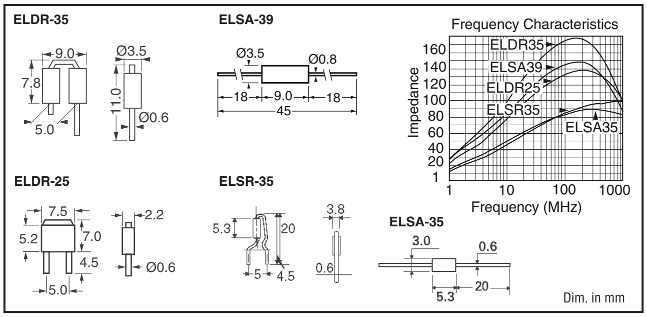

Description	Imp. (Ω) 100 MHz	Digi-Key Part No.	Pricing 10	100	1,000	2,000	Panasonic Part No.
Radial Dual Type (Tape and Box)	140 min.	P9817TB-ND	—	—	88.00	82.00/M	EXC-ELDR35V
Radial Dual Type (Bulk)	140 min.	P9817BK-ND	1.79	14.58	—	—	EXC-ELDR35C
Axial Single Type (Tape and Box)	110 min.	P9818TB-ND	—	—	58.00	—	EXC-ELSA39V
Axial Single Type (Bulk)	110 min.	P9818BK-ND	1.27	10.34	—	—	EXC-ELSA39
Radial Dual Type (Tape and Box)	100 min.	P9819TB-ND	—	—	—	82.00/M	EXC-ELDR25V
Radial Dual Type (Bulk)	100 min.	P9819BK-ND	1.73	14.08	114.00	—	EXC-ELDR25C
Axial Single Type (Tape and Box)	60 min.	P9820TB-ND	—	—	58.00	—	EXC-ELSA35V
Axial Lead Type (Bulk)	60 min.	P9820BK-ND	1.27	8.78	—	—	EXC-ELSA35
Radial Single Type (Tape and Box)	60 min.	P9821TB-ND	—	—	58.00	—	EXC-ELSR35T
Radial Form Type (Bulk)	60 min.	P9821BK-ND	1.27	8.78	—	—	EXC-ELSR35S

Surface Mount Bead Cores

0603

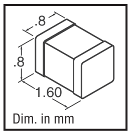

FEATURES: EXC-3BB Series: • High impedance for high speed signal line • Increase the A characteristics sharply above 40MHz and is applicable for radiated noise in the 100MHz ~ 300MHz range **EXC-3BP Series:** • Reduced DC resistance for EMI suppression • High current rating • Effective noise suppression at high frequency, up to 2GHz
APPLICATIONS: Clock line, signal line, I/O interface circuit

Imp. 100 MHz ±25%	I (mA)	Rdc (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 4,000	Panasonic Part No.
220Ω	200	0.3	P10188CT-ND	1.52	10.23	34.65	P10188TR-ND	45.00/M	EXC-3BB221H
600Ω	100	0.8	P10189CT-ND	1.52	10.23	34.65	P10189TR-ND	45.00/M	EXC-3BB601H
1000Ω	50	1	P10190CT-ND	1.52	10.23	34.65	P10190TR-ND	45.00/M	EXC-3BB102H
60Ω	1000	0.07	P10749CT-ND	1.72	12.10	41.80	P10749TR-ND	66.00/M	EXC-3BP600H
120Ω	500	0.1	P10750CT-ND	1.72	12.10	41.80	P10750TR-ND	66.00/M	EXC-3BP121H

High Current

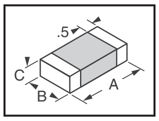

FEATURES:

- Super small, high self-resonant frequency and excellent tolerance

SPECIFICATIONS:

• **Tolerance:** ±25% • **Test Frequency:** 100MHz

Size	Imp (Ω)	I (A)	Rdc Max. (mΩ)	Dim. (mm) A	B	C	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape and Reel Pricing* 3,000	4,000	Panasonic Part No.
0603	27	4	6	1.6	.8	.8	P10436CT-ND	2.61	18.43	63.65	—	87.00/M	EXC-ML16A270U
0805	39	4	8	2.0	1.2	.9	P10191CT-ND	2.61	18.43	63.65	—	87.00/M	EXC-ML20A390U
1206	68	3	12	3.2	1.6	.9	P10437CT-ND	2.56	18.25	65.70	102.00/M	—	EXC-ML32A680U
1806	91	3	16	4.5	1.6	1.1	P11956CT-ND	2.82	20.13	72.45	121.00/M	—	EXC-ML45A910H

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Bead Core Assortment Kit:
EXC1-KIT-ND 20 each of 9 values (180 pieces) ***(RoHS Compliant)***.............................**$61.95**

Surface Mount Bead Cores

SPECIFICATIONS: • Tolerance: ±25% • **Test Frequency:** 100MHz • **Rated Current:** 2 (A) • **Flow/ Reflow Soldering**

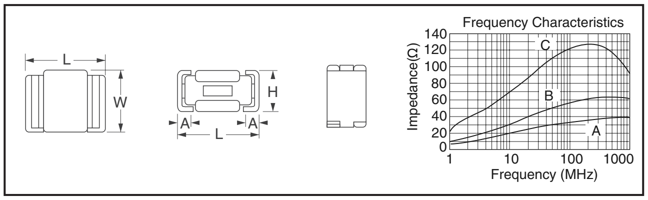

Dia.	Imp. (Ω)	Dimensions (mm) L	W	H	A	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	10,000	Panasonic Part No.
A	25	3.2	1.6	1.6	0.5	P9810CT-ND◆	.41	.31	P9810TR-ND◆	173.00/M	160.00/M	EXC-CL3216U1
B	45	3.2	2.5	1.6	0.5	P9811CT-ND	.53	.39	P9811TR-ND	221.00/M	205.00/M	EXC-CL3225U1
C	115	4.5	3.2	1.8	0.5	P9812CT-ND◆	.62	.46	P9812TR-ND◆	—	240.00/M	EXC-CL4532U1

◆ ***RoHS Compliant***

Surface Mount Bead Core Array

0804 (0402x4)

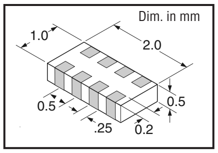

FEATURES: • .02 inch (0.51mm) height, lightweight (typically only 5mg), narrow pitch, compatible with SSOP pitch

EXC-28BB Series: • Suitable for high speed signals (over 50MHz), excellent cross talk characteristics (100MHz: <-25dB) **APPLICATIONS:** • PC, LCD, DSC, Printer, PDA, MD, CD, NAVI

EXC-28BA Series: • Suitable for ring suppression while maintaining wave form, excellent cross talk characteristics (100MHz: <-30dB) **APPLICATIONS:** • HDD, E-IDE (Ultra DMA 33), DVD, CD-ROM, C-DR, CDR-RW

Imp. 100 MHz ±25%	I (mA)	Rdc (Ω)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape and Reel Pricing 5,000	Panasonic Part No.
120Ω	100	0.5	P10751CT-ND	.71	.52	.38	P10751TR-ND	298.00/M	EXC-28BB121U
220Ω	100	0.7	P10752CT-ND	.71	.52	.38	P10752TR-ND	298.00/M	EXC-28BB221U
120Ω	100	0.5	P10753CT-ND	.71	.52	.38	P10753TR-ND	298.00/M	EXC-28BA121U
220Ω	100	0.7	P10754CT-ND	.71	.52	.38	P10754TR-ND	298.00/M	EXC-28BA221U

Common Mode Noise Filter

0504

Features: • Low profile • Low DC resistance • High reliability and high mounting efficiency due to multilayer construction
Applications: General electronic equipment
Specifications: Temperature Range: -40°C ~ 85°C

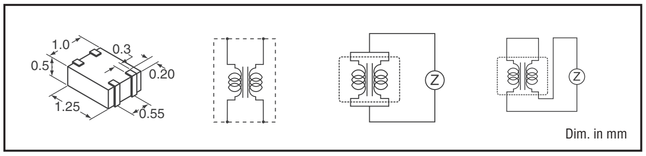

Imp. @ 100MHz Common Mode	Differen-tial Mode	Rated Volt. (V DC)	Rated Current (mA DC)	Rdc (Ω Max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 5,000	Panasonic Part No.
90Ω	15Ω	5	160	1.75	P12972CT-ND	.61	.46	.34	192.00/M	EXC-24CE900U
120Ω	18Ω	5	140	2.20	P12970CT-ND	.61	.46	.34	192.00/M	EXC-24CE121U
200Ω	20Ω	5	130	2.70	P12971CT-ND	.61	.46	.34	192.00/M	EXC-24CE201U

* For Tape and Reel part number, change CT-ND to TR-ND.

Common Mode Noise Filter Array

0804

Features: • Low profile • Low DC resistance • High reliability and high mounting efficiency due to multilayer construction • 2 filters in one small package
Applications: General electronic equipment
Specifications: Temperature Range: -40°C ~ 85°C

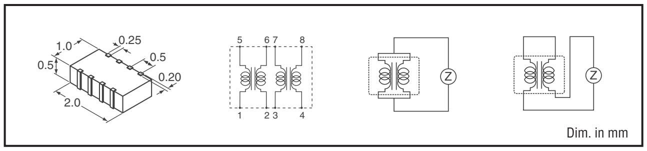

Imp. @ 100MHz Common Mode	Differen-tial Mode	Rated Volt. (V DC)	Rated Current (mA DC)	Rdc (Ω Max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 5,000	Panasonic Part No.
90Ω	15Ω	5	160	1.5	P12975CT-ND	.88	.66	.49	277.00/M	EXC-28CE900U
120Ω	18Ω	5	140	2.0	P12973CT-ND	.88	.66	.49	277.00/M	EXC-28CE121U
200Ω	20Ω	5	130	2.5	P12974CT-ND	.88	.66	.49	277.00/M	EXC-28CE201U

* For Tape and Reel part number, change CT-ND to TR-ND.

LC/LR Composite Devices

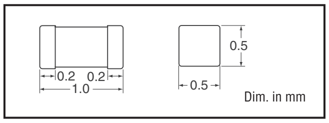

Features:

- Effective for noise and ESD at the same time
- Simple pattern without connecting GND pattern

Applications:

- Information/communication devices with LCD displays

Inductance @100MHz ±20% Nom.	Q Min. @100 MHz	Imp. @ 800-900 MHz Nom.	SRF @ ±50MHz Nom. (MHz)	RDC Max. (Ω)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel Pricing* 10,000	Panasonic Part No.
99nH	4	1500Ω	850	10	90	P13345CT-ND	.16	1.35	10.58	61.00/M	ELW-CF800F01

Inductance @ 100MHz, ±5% Nom.	DCR @ ±20% Nom.	SRF Min. (MHz)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel Pricing* 10,000	Panasonic Part No.
100nH	100Ω	1200	23	P13346CT-ND	.15	1.26	9.87	57.00/M	ELW-RFR10101F

* For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic

Surface Mount 2 Mode Noise Filters

EXC-24CB and EXC-24CP Series

FEATURES:
• Acoustic quality improvement of mobile phone and portable audio equipment • Effectively suppresses both common mode noise and normal mode noise • Small size and light weight

APPLICATIONS:
• Receiver line, microphone line and headset of mobile phone • Small digital equipment such as personal computers, printer, HDD, DVD-ROM, CD-ROM and LCD • Digital audio and video equipment such as PDA, DSC, DVC, CD Player, DVD Player and MD Player

SPECIFICATIONS:
• **Tolerance:** ±25% • **Rated Voltage**: 5VDC

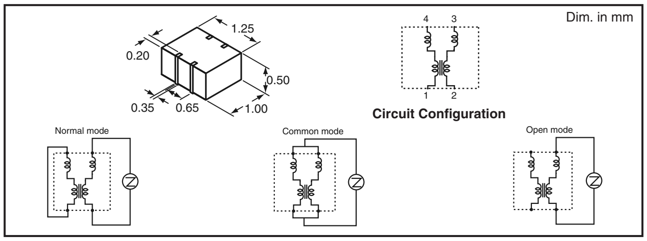

Open Mode Impedance @100MHz (Ω)	Rated Current (mA DC)	DC Resist. Max. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Pricing 5,000	Panasonic Part No.
1000	50	1.5	P11169CT-ND	.68	.51	.38	215.00/M	EXC-24CB102U
220	100	0.7	P11170CT-ND	.68	.51	.38	215.00/M	EXC-24CB221U
220	350	0.4	P11598CT-ND	.71	.53	.39	223.00/M	EXC-24CP221U
120	500	0.3	P11597CT-ND	.71	.53	.39	223.00/M	EXC-24CP121U

† For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Common Mode Noise Filters

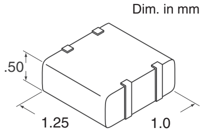

APPLICATIONS: AV Equipment, USB, LVDS, IEEE1394, HDMI, SATA

SPECIFICATIONS: • **Rated Voltage:** 5VDC

Imp. @ 100MHz (Ω) Common Mode	Differential Mode	Rated Current (mA DC)	DC Resist. Max. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Pricing 5,000	Panasonic Part No.
120	35	140	2	P11171CT-ND	.95	.71	.52	299.00/M	EXC-24CD121U
200	40	130	3	P11172CT-ND	.95	.71	.52	299.00/M	EXC-24CD201U
60	20	160	2	P11173CT-ND	.95	.71	.52	299.00/M	EXC-24CD600U
90	30	160	2	P11174CT-ND	.95	.71	.52	299.00/M	EXC-24CD900U
36	20	200	1	P13759CT-ND	.73	.55	.40	230.00/M	EXC-24CE360UP
90	20	130	2.5	P13761CT-ND	.73	.55	.40	230.00/M	EXC-24CF900U
24	15	160	1.5	P13760CT-ND	.95	.71	.52	298.00/M	EXC-24CG240U
90	20	100	3	P13570CT-ND	.93	.70	.52	293.00/M	EXC-24CG900U

† For Tape and Reel part number, change CT-ND to TR-ND.

SMT EMI Filters

SPECIFICATIONS: • 50VDC • 2A Maximum

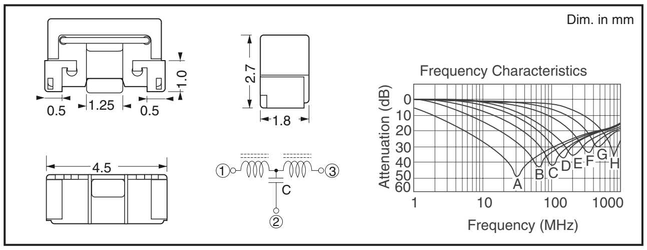

Dia.	Cap. (pF)	25dB Frequency (MHz)	15dB Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
H	22	800 ~ 1,000	600 ~ 1,000	P9825CT-ND	.69	.51	P9825TR-ND	289.00	EXC-CET220U
G	47	450 ~ 550	350 ~ 1,000	P9826CT-ND	.69	.51	P9826TR-ND	289.00	EXC-CET470U
F	100	300 ~ 450	200 ~ 900	P9827CT-ND	.69	.51	P9827TR-ND	289.00	EXC-CET101U
E	270	200 ~ 300	80 ~ 700	P9828CT-ND	.69	.51	P9828TR-ND	289.00	EXC-CET271U
D	470	100 ~ 220	50 ~ 700	P9829CT-ND	.69	.51	P9829TR-ND	289.00	EXC-CET471U
C	1,000	65 ~ 200	30 ~ 700	P9830CT-ND	.69	.51	P9830TR-ND	289.00	EXC-CET102U
B	2,200	35 ~ 180	15 ~ 700	P9831CT-ND	.69	.51	P9831TR-ND	289.00	EXC-CET222U
A	10,000	15 ~ 120	5 ~ 700	P9832CT-ND	.69	.51	P9832TR-ND	289.00	EXC-CET103U

SMT Digital Noise Filters Series K: Type E

High performance noise filter for digital signal processing circuits.
FEATURES:
• Wide attenuation band in noise signal • Minimal rounding of waveforms of the signal • High rated DC current: 2.0A • Rated Voltage VDC: 50V P9870-P9878; 25V P13159 • DCR (DC Resistance Ω): 0.02 • High magnetic shielding characteristics • Selection for: high current in small size
APPLICATIONS:
• Office automated equipment • TVs, VTRs • Communication equipment

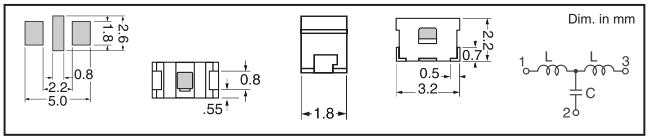

Induct. (1-3) +40 -30% (nH)	Capacitance (1-2) (pF)	Nominal Cap. (pF)	Frequency Range @ 15dB Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Pricing 2,000	Panasonic Part No.
60	10 ±20%	10	1,000 ~ 1,500	P9870CT-ND	.63	.47	.35	197.00/M	ELK-E100FA
	22 ±20%	22	700 ~ 1,000	P9871CT-ND	.63	.47	.35	197.00/M	ELK-E220FA
	47 ±20%	47	500 ~ 1,000	P9872CT-ND	.63	.47	.35	197.00/M	ELK-E470FA
	100 ±20%	100	400 ~ 1,000	P9873CT-ND	.63	.47	.35	197.00/M	ELK-E101FA
	220 ±20%	220	250 ~ 1,000	P9874CT-ND	.63	.47	.35	197.00/M	ELK-E221FA
	485 ±20%	470	150 ~ 1,000	P9875CT-ND	.63	.47	.35	197.00/M	ELK-E471FA
	1,030 ±30%	1,000	80 ~ 1,000	P9876CT-ND	.63	.47	.35	197.00/M	ELK-E102FA
	2,140 ±30%	2,200	50 ~ 1,000	P9877CT-ND	.63	.47	.35	197.00/M	ELK-E222FA
	9,700 ±30%	10,000	15 ~ 1,000	P9878CT-ND	.63	.47	.35	197.00/M	ELK-E103FA
	32,200 ±30%	33,000	10 ~ 1,000	P13159CT-ND	.51	.48	.35	197.00/M	ELK-E333FA

† For Tape and Reel part number, change CT-ND to TR-ND.

Digital Noise Filters

ELKT Type

Useful EMI noise filter when signal and noise frequency are close in frequency. T type radial lead EMI filter consisting of one capacitor and two inductors.
FEATURES:
• Flat response at signal frequency and sharp noise attenuation characteristics • Minimal distortion of pulse signal wave form and excellent noise attenuation toward high frequency noise (good EMI filter for analog signal line such as video signal)
APPLICATIONS:
• Reduction of EMI noise on the signal line, I/O line and DC line circuit within OA, AV, communication equipment
Replaces ELK-A series

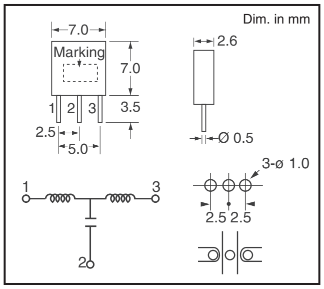

Cut-off Frequency (MHz)	Impedance Zo(Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 1,000	Panasonic Part No.
40	550	90	P11099CT-ND	1.14	1.06	.77	P11099TB-ND	439.00	ELK-TT150GA
55	300	100	P11101CT-ND	1.14	1.06	.77	P11101TB-ND	439.00	ELK-TT180EA
60	550	90	P11102CT-ND	1.14	1.06	.77	—	—	ELK-TT100FA

ESD Suppressor

FEATURES:
• ESD Protection of high-speed data lines • Low capacitance 0.05 pF: 0402 size, 0.1pF: 0603 size • Good ESD suppression characteristics • Good ESD withstanding • Operating Temperature Range: -55°C ~ 125°C
APPLICATIONS:
• High-Speed Data Lines (HDMI, SATA, USB, IEEE1394) • Antenna Circuitry (Cellular Phones)
SPECIFICATIONS:
• **Rated Voltage:** 15V

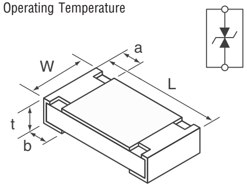

Size Code	Dimensions – mm L	W	a	b	t
EZAEG2A (0402)	1.00	0.50	0.20	0.25	0.38
EZAEG3A (0603)	1.60	0.80	0.30	0.30	0.50

Max. Peak Voltage	Max. Clamping Voltage	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
500V	100V	P13571CT-ND	.33	.23	.16	P13571TR-ND	10,000	99.00/M	EZA-EG2A50AX
		P13682CT-ND	.39	.27	.19	P13682TR-ND	5,000	124.00/M	EZA-EG3A50AV

NEW! ESD Suppressor Array – 0805 Series

Digi-Reel®

FEATURES:
• ESD Protection of high-speed data lines • Low capacitance 0.25pF
• Good ESD suppression characteristics • Good ESD withstanding

APPLICATIONS:
• High-Speed Data Lines (HDMI, IEEE1394)

SPECIFICATIONS:
• **Rated Voltage:** 15V • Operating Temperature Range: -55°C ~ 125°C

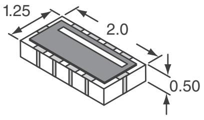

Max. Peak Voltage	Max. Clamping Voltage	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
500V	100V	P14127CT-ND	1.50	1.03	.70	P14127TR-ND	5,000	473.00/M	EZA-EGCA50AV

High Frequency Bandpass Filters

ELB-1A (0603) Type and ELB-2A (0805) Type

FEATURES: • Helical resonator structure • High attenuation at high frequency • Low insertion loss • Small size

APPLICATIONS: • Cordless phones • Wireless LAN

Dim. in mm

Fig. 1

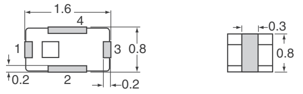

Fig. 2

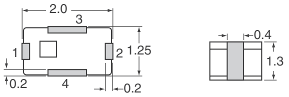

Fig. 3

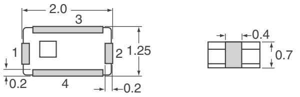

Fig.	Frequency (GHz)	Frequency Characteristics Insertion Loss (dB) Maximum	 Attenuation (dB) Min./(GHz)	VSWR Maximum	Impedance (Ω)	Applications	Digi-Key Part No.	Cut Tape Price Each 1	 10	Digi-Key Part No.	Tape and Reel Qty.	 Pricing	Panasonic Part No.
0603													
1	5.80	2.5	13/4.8	2.0	50	Cordless Phone	P13149CT-ND	1.00	.93	P13149TR-ND	4,000	399.00/M	ELB-1A001
	2.45	2.2	25/4.8	2.0	50	Cordless Phone/Wireless LAN	P13150CT-ND	1.00	.93	P13150TR-ND	4,000	399.00/M	ELB-1A002
0805													
2	5.50	1.5	15/4	2.0	50	Wireless LAN	P13151CT-ND	1.00	.93	P13151TR-ND	3,000	399.00/M	ELB-2A002
	5.40	1.8	25/7.5	2.0	50	Wireless LAN	P13152CT-ND	1.00	.93	P13152TR-ND	3,000	399.00/M	ELB-2A003
	5.80	2.0	28/3.275	2.0	50	Cordless Phone	P13154CT-ND	1.00	.93	P13154TR-ND	3,000	399.00/M	ELB-2A005
	2.45	1.6	25/3.4	2.0	50	Cordless Phone	P13157CT-ND	1.00	.93	P13157TR-ND	3,000	399.00/M	ELB-2A009
3	5.50	1.2	25/2.45	2.0	50	Wireless LAN	P13158CT-ND	1.00	.93	P13158TR-ND	3,000	399.00/M	ELB-2A501

Digital Noise Filters ELK-EV Type

FEATURES:
- Effective on both EMI noise and ESD • Improves the varistor suppression and spike voltage • Small size (1216 size)
- Good DC loaded characteristics up to 2A

SPECIFICATIONS:
- Rated Current: 2.0A Maximum • DCR (DC Resistance): 0.02Ω Typical

APPLICATIONS: • Countermeasure for ESD and EMI noise on DC line such as POS, FA machine, Amusement and etc.

Dim. in mm

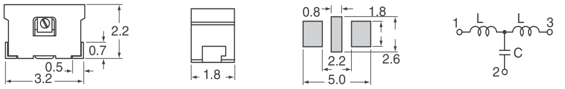

Inductance (1-3) ±40% (nH)	Varistor Voltage (V 1mA)	Capacitance (1-2) Typical (pF)	Frequency Range @ 15dB Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	 10	Tape & Reel Pricing‡ 2,000	Panasonic Part No.
60	27 ±25%	15	700 ~ 1500	P13170CT-ND	1.05	.98	405.00/M	ELK-EV150FF
	27 ±25%	30	450 ~ 1000	P13171CT-ND	1.05	.98	405.00/M	ELK-EV300FF
	27 ±25%	160	150 ~ 1000	P13172CT-ND	1.05	.98	405.00/M	ELK-EV161FF
	27 ±25%	430	80 ~ 1000	P13173CT-ND	1.05	.98	405.00/M	ELK-EV431FF
	22 ±25%	560	60 ~ 1000	P13174CT-ND	1.05	.98	405.00/M	ELK-EV561FE
	12 ±25%	1050	40 ~ 1000	P13175CT-ND	1.05	.98	405.00/M	ELK-EV112FC
	12 ±25%	3500	15 ~ 1000	P13176CT-ND	1.05	.98	405.00/M	ELK-EV352FC

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Digital Noise Filters ELK-EA Type

FEATURES:
- Small size • Good DC loaded characteristics up to 5A • Steep attenuation and stable frequency characteristics at high impedance load

SPECIFICATIONS:
- Rated Current: 5.0A Maximum • Rated Voltage Maximum: 50V P13160-P13168; 25V P13169 • DCR (DC Resistance): 4mΩ Typical

Dim. in mm

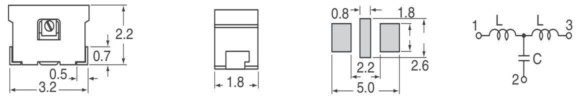

Inductance (1-3) ±40% (nH)	Capacitance (1-2) (pF)	Nominal Capacitance (pF)	Frequency Range @ 15dB Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	 10	Tape & Reel Pricing‡ 2,000	Panasonic Part No.
14	10 ±20%	10	1200 ~ 1500	P13160CT-ND	.63	.59	243.00/M	ELK-EA100FA
	22 ±20%	22	700 ~ 1000	P13161CT-ND	.63	.59	243.00/M	ELK-EA220FA
	47 ±20%	47	400 ~ 1000	P13162CT-ND	.63	.59	243.00/M	ELK-EA470FA
	100 ±20%	100	250 ~ 1000	P13163CT-ND	.63	.59	243.00/M	ELK-EA101FA
	220 ±20%	220	150 ~ 1000	P13164CT-ND	.63	.59	243.00/M	ELK-EA221FA
	485 ±20%	470	70 ~ 1000	P13165CT-ND	.63	.59	243.00/M	ELK-EA471FA
	1030 ±30%	1000	40 ~ 1000	P13166CT-ND	.63	.59	243.00/M	ELK-EA102FA
	2140 ±30%	2200	20 ~ 1000	P13167CT-ND	.63	.59	243.00/M	ELK-EA222FA
	9700 ±30%	10000	4 ~ 1000	P13168CT-ND	.63	.59	243.00/M	ELK-EA103FA
	32000 ±30%	33000	2 ~ 1000	P13169CT-ND	.63	.59	243.00/M	ELK-EA333FA

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Combination Line Filters

Series C, types 21C, 25C and 25C (F)

Combination line filters applicable for attenuation of both the common mode and normal mode.

FEATURES: • Addition of superior normal mode attenuation characteristics • Compact and high inductance • Low profile and suitable for high density mounting

RECOMMENDED APPLICATIONS: • Lighting equipment • AV Equipment • Communication equipment • Power supply

SPECIFICATIONS: • Operating Temperature: -20°C ~ 115°C • Voltage: AC 250Vrms Maximum • Dielectric withstanding voltage: AC 2kV 1 minute • Temperature rise: 45 K Maximum

Dim. in mm

21C Type

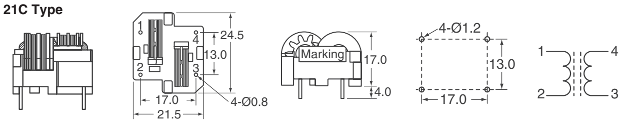

25C Type

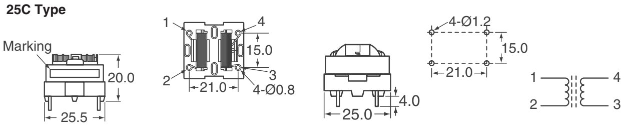

25C (F) Type

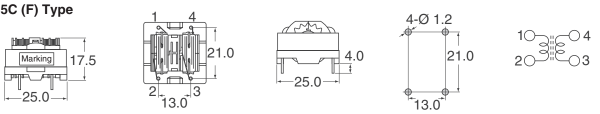

Inductance (mH Min.) Common	 Normal	DCR (at 20°C) (Ω) ±20% Tol.	Rated Current (A rms) Max.	Digi-Key Part No.	Price Each 1	 10	 100	Panasonic Part No.
21C Type								
43.0	1.70	3.07	0.3	PLK1294-ND◆	3.68	3.15	2.63	ELF-21C003A
25.0	.960	1.75	0.4	PLK1295-ND	3.68	3.15	2.63	ELF-21C004A
11.0	.440	.790	0.6	PLK1296-ND◆	3.68	3.15	2.63	ELF-21C006A
6.40	.250	.450	0.9	PLK1297-ND◆	3.68	3.15	2.63	ELF-21C009A
3.90	.150	.300	1.1	PLK1298-ND	3.68	3.15	2.63	ELF-21C011A
2.30	.090	.170	1.5	PLK1299-ND	3.68	3.15	2.63	ELF-21C015A
1.70	.065	.120	1.8	PLK1300-ND◆	3.68	3.15	2.63	ELF-21C018A
1.00	.040	.080	2.3	PLK1301-ND◆	3.68	3.15	2.63	ELF-21C023A
25C Type								
184.0	5.30	5.031	0.3	PLK1302-ND◆	4.64	3.98	3.32	ELF-25C003A
72.0	2.10	1.891	0.5	PLK1303-ND◆	4.64	3.98	3.32	ELF-25C005A
34.0	0.90	.916	0.7	PLK1304-ND◆	4.64	3.98	3.32	ELF-25C007A
20.0	0.52	.510	0.9	PLK1305-ND◆	4.64	3.98	3.32	ELF-25C009A
11.0	0.31	.310	1.2	PLK1306-ND	4.64	3.98	3.32	ELF-25C012A
6.70	.180	.180	1.6	PLK1307-ND◆	4.64	3.98	3.32	ELF-25C016A
4.40	.110	.113	2.0	PLK1308-ND	4.64	3.98	3.32	ELF-25C020A
3.00	.080	.080	2.5	PLK1309-ND◆	4.64	3.98	3.32	ELF-25C025A
1.80	.050	.053	3.2	PLK1310-ND	4.64	3.98	3.32	ELF-25C032A
1.20	.03	.037	3.8	PLK1311-ND◆	4.64	3.98	3.32	ELF-25C038A
25C (F) Type — RoHS Compliant								
85.0	2.10	1.891	0.5	PLK1312-ND	4.48	3.84	3.20	ELF-25C005F
52.0	1.28	1.270	0.6	PLK1313-ND	4.48	3.84	3.20	ELF-25C006F
34.0	0.90	0.916	0.7	PLK1314-ND	4.48	3.84	3.20	ELF-25C007F
26.0	0.68	0.673	0.8	PLK1315-ND	4.48	3.84	3.20	ELF-25C008F
20.0	0.52	0.510	0.9	PLK1316-ND	4.48	3.84	3.20	ELF-25C009F
11.0	0.31	0.310	1.2	PLK1317-ND	4.48	3.84	3.20	ELF-25C012F
6.7	0.18	0.180	1.6	PLK1318-ND	4.48	3.84	3.20	ELF-25C016F
4.4	0.11	0.113	2.0	PLK1319-ND	4.48	3.84	3.20	ELF-25C020F

◆ *RoHS Compliant*

Panasonic® Line Filters

V Series (290, 450, 650, 850, 21V, 22V, 24V Types)
H Series (200, 270, 400, 600 Types)
F Series (23F, 25F Types)
M Series (11M, 14M, 16M Types)
N Series (15N, 18N, 20N Types)
High N Series (17N, 19N, 21N Types)

Standard Circuit Diagram

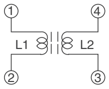

Circuit Example

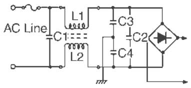

Line filters for suppressing conductive noise ranging from low to high frequencies generated from power supply circuits of various equipment

V Series (Vertical Structure): Excellent attenuation in high frequency characteristics
H Series (Horizontal Structure): Greatly decreases leakage flux
F Series (Thin Structure): 15 mm height max.
M Series (Small Structure): Small size and lightweight
N Series (Vertical Structure): Suitable for high-density automatic insertion
High N Series (High L Structure): High inductance (same size with N Series)

Dim. in mm

290 Type

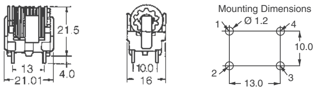

450, 650 Type Dimensions: shown in [ ] are for 450 type.

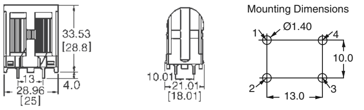

850 Type

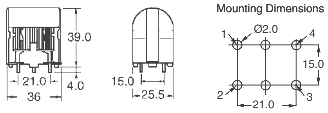

21V Type

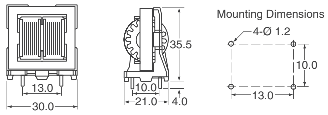

22V Type

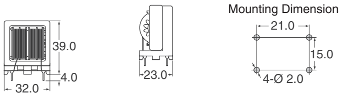

24V Type

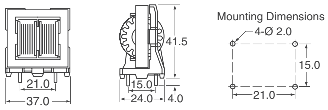

270 Type

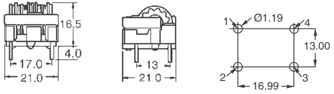

200, 400, 600 Type

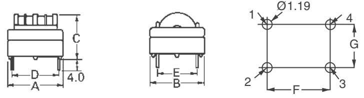

Type	A	B	C	D	E	F	G
200	20.00	21.00	20.00	13.00	10.00	13.00	10.00
400	24.00	24.50	19.50	21.00	15.00	21.00	15.00
600	28.50	29.00	22.50	24.00	20.00	24.00	20.00

23F, 25F Types

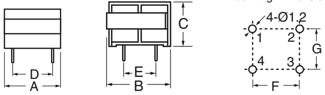

Type	A Max.	B Max.	C Max.	D	E	F	G
23F	24	23	14	16±0.5	10±0.5	16±0.1	10±0.1
25F	28	25	15	21±0.5	11±0.5	21±0.1	11±0.1

15N Type

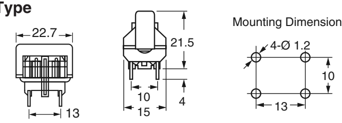

18N Type

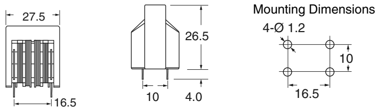

20N Type

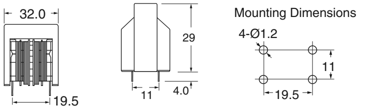

17N Type

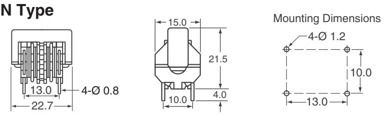

19N Type

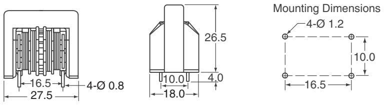

21N Type

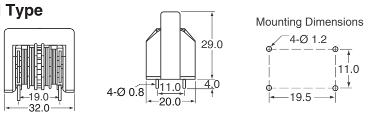

11M Type

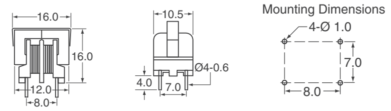

14M Type

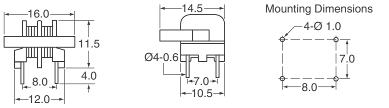

16M Type

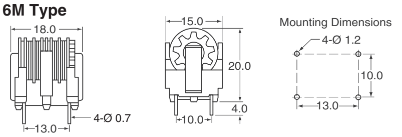

Type	Inductance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
			V Series					
290	33.0	0.3	PLK1005-ND◆	3.36	28.80	240.00	1433.00	ELF-18D290H
	22.0	0.4	PLK1004-ND◆	3.36	28.80	240.00	1433.00	ELF-18D290C
	10.0	0.6	PLK1003-ND◆	3.36	28.80	240.00	1433.00	ELF-18D290G
	3.3	1.1	PLK1002-ND◆	3.36	28.80	240.00	1433.00	ELF-18D290S
	2.2	1.3	PLK1001-ND◆	3.36	28.80	240.00	1433.00	ELF-18D290T
	0.82	2.0	PLK1000-ND◆	3.36	28.80	240.00	1433.00	ELF-18D290B
450	56.0	0.45	PLK1206-ND	5.68	48.69	405.75	2422.00	ELF-18D450Q
	39.0	0.50	PLK1207-ND	5.68	48.69	405.75	2422.00	ELF-18D450H
	18.0	0.8	PLK1007-ND	5.68	48.69	405.75	2422.00	ELF-18D450B
	10.0	1.0	PLK1208-ND	5.68	48.69	405.75	2422.00	ELF-18D450J
	8.2	1.1	PLK1209-ND	5.68	48.69	405.75	2422.00	ELF-18D450G
	6.8	1.2	PLK1210-ND	5.68	48.69	405.75	2422.00	ELF-18D450L
	5.6	1.4	PLK1211-ND◆	5.68	48.69	405.75	2422.00	ELF-18D450D
	3.9	1.8	PLK1212-ND	5.68	48.69	405.75	2422.00	ELF-18D450K
	2.7	2.0	PLK1006-ND◆	5.68	48.69	405.75	2422.00	ELF-18D450A
	2.2	2.2	PLK1213-ND	5.68	48.69	405.75	2422.00	ELF-18D450C
	1.2	3.0	PLK1214-ND	5.68	48.69	405.75	2422.00	ELF-18D450M
650	68.0	0.6	PLK1223-ND	6.21	53.25	443.75	2649.00	ELF-18D656S
	47.0	0.7	PLK1012-ND◆	6.21	53.25	443.75	2649.00	ELF-18D650U
	39.0	0.7	PLK1215-ND	6.21	53.25	443.75	2649.00	ELF-18D650P
	33.0	0.8	PLK1216-ND◆	6.21	53.25	443.75	2649.00	ELF-18D650H
	27.0	1.0	PLK1224-ND◆	6.21	53.25	443.75	2649.00	ELF-18D656V
	22.0	1.0	PLK1011-ND◆	6.21	53.25	443.75	2649.00	ELF-18D650L
	18.0	1.0	PLK1217-ND	6.21	53.25	443.75	2649.00	ELF-18D650Q
	18.0	1.2	PLK1225-ND	6.21	53.25	443.75	2649.00	ELF-18D656Q
	15.0	1.3	PLK1226-ND	6.21	53.25	443.75	2649.00	ELF-18D656D
	12.0	1.3	PLK1218-ND	6.21	53.25	443.75	2649.00	ELF-18D650J
	12.0	1.6	PLK1038-ND◆	6.21	53.25	443.75	2649.00	ELF-18D656J
	10.0	1.4	PLK1219-ND◆	6.21	53.25	443.75	2649.00	ELF-18D650W
	8.2	1.7	PLK1010-ND	6.21	53.25	443.75	2649.00	ELF-18D650C
	6.8	1.8	PLK1220-ND	6.21	53.25	443.75	2649.00	ELF-18D650K
	6.8	2.0	PLK1227-ND	6.21	53.25	443.75	2649.00	ELF-18D656K
	5.6	2.2	PLK1228-ND	6.21	53.25	443.75	2649.00	ELF-18D656X

Type	Inductance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
650	4.7	2.0	PLK1221-ND	6.21	53.25	443.75	2649.00	ELF-18D650Y
	3.3	2.4	PLK1009-ND◆	6.21	53.25	443.75	2649.00	ELF-18D650B
	1.8	2.8	PLK1222-ND	6.21	53.25	443.75	2649.00	ELF-18D650G
	1.5	3.1	PLK1008-ND◆	6.21	53.25	443.75	2649.00	ELF-18D650M
	4.7	2.5	PLK1229-ND	6.21	53.25	443.75	2649.00	ELF-18D656Y
	2.7	2.7	PLK1230-ND	6.21	53.25	443.75	2649.00	ELF-18D656Z
	2.2	2.8	PLK1037-ND	6.21	53.25	443.75	2649.00	ELF-18D666A
850	82.0	0.8	PLK1231-ND	9.82	84.18	701.50	4188.00	ELF-18D850R
	56.0	1.1	PLK1017-ND◆	9.82	84.18	701.50	4188.00	ELF-18D850T
	47.0	1.2	PLK1232-ND	9.82	84.18	701.50	4188.00	ELF-18D850U
	33.0	1.4	PLK1233-ND	9.82	84.18	701.50	4188.00	ELF-18D850H
	27.0	1.5	PLK1234-ND	9.82	84.18	701.50	4188.00	ELF-18D850Z
	22.0	1.8	PLK1018-ND◆	9.82	84.18	701.50	4188.00	ELF-18D860C
	18.0	1.9	PLK1235-ND	9.82	84.18	701.50	4188.00	ELF-18D850Q
	15.0	2.0	PLK1236-ND◆	9.82	84.18	701.50	4188.00	ELF-18D850D
	10.0	2.5	PLK1016-ND	9.82	84.18	701.50	4188.00	ELF-18D850W
	8.2	3.0	PLK1237-ND	9.82	84.18	701.50	4188.00	ELF-18D850C
	5.6	3.4	PLK1238-ND	9.82	84.18	701.50	4188.00	ELF-18D850X
	4.7	3.5	PLK1015-ND◆	9.82	84.18	701.50	4188.00	ELF-18D850Y
	3.9	3.7	PLK1239-ND	9.82	84.18	701.50	4188.00	ELF-18D850P
	3.3	4.2	PLK1014-ND◆	9.82	84.18	701.50	4188.00	ELF-18D850B
	2.7	4.5	PLK1240-ND	9.82	84.18	701.50	4188.00	ELF-18D860B
	1.5	5.0	PLK1013-ND◆	9.82	84.18	701.50	4188.00	ELF-18D850M
21V	68.0	0.6	PLK1102-ND◆	4.66	39.93	332.75	1987.00	ELF-21V006A
	56.0	0.7	PLK1103-ND	4.66	39.93	332.75	1987.00	ELF-21V007A
	33.0	0.8	PLK1104-ND	5.78	49.50	412.50	2463.00	ELF-21V008A
	27.0	1.0	PLK1105-ND	5.78	49.50	412.50	2463.00	ELF-21V010A
	18.0	1.2	PLK1106-ND	5.78	49.50	412.50	2463.00	ELF-21V012A
	15.0	1.3	PLK1107-ND	5.78	49.50	412.50	2463.00	ELF-21V013A
	12.0	1.6	PLK1108-ND◆	5.78	49.50	412.50	2463.00	ELF-21V016A
	8.2	1.8	PLK1109-ND◆	5.78	49.50	412.50	2463.00	ELF-21V018A
	6.8	2.0	PLK1110-ND◆	5.78	49.50	412.50	2463.00	ELF-21V020A
	5.6	2.2	PLK1111-ND	5.78	49.50	412.50	2463.00	ELF-21V022A

◆ ***RoHS Compliant***

(Continued)

Panasonic Line Filters *(Cont.)*

Type	Induc-tance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing				Panasonic Part No.
				1	10	100	1,000	
21V	4.5	2.5	PLK1112-ND	5.78	49.50	412.50	2463.00	ELF-21V025A
	2.7	2.7	PLK1113-ND◆	5.78	49.50	412.50	2463.00	ELF-21V027A
	2.2	3.0	PLK1114-ND	5.78	49.50	412.50	2463.00	ELF-21V030A
22V (A)	23.3	2.0	PLK1320-ND◆	5.04	43.18	359.85	2159.10	ELF-22V020A
	12.6	2.5	PLK1321-ND	5.04	43.18	359.85	2159.10	ELF-22V025A
	9.8	3.0	PLK1322-ND◆	5.04	43.18	359.85	2159.10	ELF-22V030A
	7.3	3.5	PLK1323-ND◆	5.04	43.18	359.85	2159.10	ELF-22V035A
	5.8	4.0	PLK1324-ND◆	5.04	43.18	359.85	2159.10	ELF-22V040A
	4.0	5.0	PLK1325-ND◆	5.04	43.18	359.85	2159.10	ELF-22V050A
	3.0	6.0	PLK1326-ND◆	5.04	43.18	359.85	2159.10	ELF-22V060A
	2.0	7.0	PLK1327-ND◆	5.04	43.18	359.85	2159.10	ELF-22V070A
22V (B)	27.0	2.0	PLK1328-ND◆	5.04	43.18	359.85	2159.10	ELF-22V020B
	18.0	2.5	PLK1329-ND◆	5.04	43.18	359.85	2159.10	ELF-22V025B
	13.1	3.0	PLK1330-ND◆	5.04	43.18	359.85	2159.10	ELF-22V030B
	9.3	3.5	PLK1331-ND◆	5.04	43.18	359.85	2159.10	ELF-22V035B
	6.9	4.0	PLK1332-ND◆	5.04	43.18	359.85	2159.10	ELF-22V040B
	4.5	5.0	PLK1333-ND◆	5.04	43.18	359.85	2159.10	ELF-22V050B
	3.2	6.0	PLK1334-ND◆	5.04	43.18	359.85	2159.10	ELF-22V060B
	2.2	7.0	PLK1335-ND◆	5.04	43.18	359.85	2159.10	ELF-22V070B
22V (C)	16.0	2.0	PLK1336-ND◆	5.04	43.18	359.85	2159.10	ELF-22V020C
	9.8	2.5	PLK1337-ND◆	5.04	43.18	359.85	2159.10	ELF-22V025C
	8.0	3.0	PLK1338-ND◆	5.04	43.18	359.85	2159.10	ELF-22V030C
	5.8	3.5	PLK1339-ND◆	5.04	43.18	359.85	2159.10	ELF-22V035C
	4.5	4.0	PLK1340-ND◆	5.04	43.18	359.85	2159.10	ELF-22V040C
24V	82.0	0.8	PLK1115-ND	5.78	49.50	412.50	2463.00	ELF-24V008A
	56.0	1.0	PLK1116-ND	5.78	49.50	412.50	2463.00	ELF-24V010A
	47.0	1.2	PLK1117-ND	5.78	49.50	412.50	2463.00	ELF-24V012A
	33.0	1.4	PLK1118-ND	5.78	49.50	412.50	2463.00	ELF-24V014A
	27.0	1.5	PLK1119-ND	5.78	49.50	412.50	2463.00	ELF-24V015A
	22.0	1.8	PLK1120-ND	5.78	49.50	412.50	2463.00	ELF-24V018A
	18.0	1.9	PLK1121-ND	5.78	49.50	412.50	2463.00	ELF-24V019A
	15.0	2.0	PLK1122-ND	5.78	49.50	412.50	2463.00	ELF-24V020A
	10.0	2.5	PLK1123-ND	5.78	49.50	412.50	2463.00	ELF-24V025A
	9.0	2.8	PLK1124-ND	5.78	49.50	412.50	2463.00	ELF-24V028A
	8.2	3.0	PLK1125-ND	5.78	49.50	412.50	2463.00	ELF-24V030A
	5.6	3.4	PLK1126-ND	5.78	49.50	412.50	2463.00	ELF-24V034A
	4.7	3.5	PLK1127-ND	8.58	73.50	612.50	3657.00	ELF-24V035A
	3.9	3.7	PLK1128-ND	8.58	73.50	612.50	3657.00	ELF-24V037A
	3.3	4.2	PLK1129-ND◆	8.58	73.50	612.50	3657.00	ELF-24V042A
	2.7	4.5	PLK1130-ND	8.58	73.50	612.50	3657.00	ELF-24V045A
	1.5	5.0	PLK1131-ND	8.58	73.50	612.50	3657.00	ELF-24V050A
	0.80	7.0	PLK1132-ND◆	8.58	73.50	612.50	3657.00	ELF-24V070A
	0.40	8.0	PLK1133-ND	8.58	73.50	612.50	3657.00	ELF-24V080A
	0.26	9.0	PLK1134-ND	8.58	73.50	612.50	3657.00	ELF-24V090A
	0.15	10.0	PLK1135-ND◆	8.58	73.50	612.50	3657.00	ELF-24V100A
H Series								
200	68.0	0.25	PLK1247-ND◆	3.84	32.88	274.00	1636.00	ELF-18D222F
	47.0	0.3	PLK1248-ND◆	3.84	32.88	274.00	1636.00	ELF-18D235F
	33.0	0.4	PLK1024-ND◆	3.84	32.88	274.00	1636.00	ELF-18D221F
	22.0	0.4	PLK1021-ND	3.84	32.88	274.00	1636.00	ELF-18D218
	18.0	0.5	PLK1241-ND◆	3.84	32.88	274.00	1636.00	ELF-18D210
	15.0	0.5	PLK1242-ND	3.84	32.88	274.00	1636.00	ELF-18D215
	8.2	0.7	PLK1243-ND	3.84	32.88	274.00	1636.00	ELF-18D214
	6.8	0.8	PLK1244-ND	3.84	32.88	274.00	1636.00	ELF-18D225
	4.7	1.0	PLK1249-ND	3.84	32.88	274.00	1636.00	ELF-18D227F
	3.9	1.0	PLK1020-ND◆	3.84	32.88	274.00	1636.00	ELF-18D216
	3.3	1.0	PLK1245-ND	3.84	32.88	274.00	1636.00	ELF-18D213
	2.7	1.3	PLK1246-ND	3.84	32.88	274.00	1636.00	ELF-18D219
	2.2	1.5	PLK1023-ND◆	3.84	32.88	274.00	1636.00	ELF-18D228F
	1.5	1.6	PLK1019-ND◆	3.84	32.88	274.00	1636.00	ELF-18D217
	1.2	2.0	PLK1250-ND	3.84	32.88	274.00	1636.00	ELF-18D230F
	1.0	2.1	PLK1022-ND	3.84	32.88	274.00	1636.00	ELF-18D212F
270	33.0	0.3	PLK1251-ND	3.36	28.80	240.00	1433.00	ELF-18D270J
	22.0	0.4	PLK1252-ND	3.36	28.80	240.00	1433.00	ELF-18D270B
	18.0	0.5	PLK1253-ND◆	3.36	28.80	240.00	1433.00	ELF-18D270H
	10.0	0.6	PLK1254-ND	3.36	28.80	240.00	1433.00	ELF-18D270G
	6.8	0.7	PLK1025-ND◆	3.36	28.80	240.00	1433.00	ELF-18D270A
	5.6	0.8	PLK1255-ND	3.36	28.80	240.00	1433.00	ELF-18D270Q
	2.7	1.1	PLK1256-ND	3.36	28.80	240.00	1433.00	ELF-18D270D
	1.8	1.5	PLK1257-ND	3.36	28.80	240.00	1433.00	ELF-18D270C
400	68.0	0.4	PLK1266-ND	4.55	39.03	325.25	1942.00	ELF-18D437F
	39.0	0.5	PLK1267-ND	4.55	39.03	325.25	1942.00	ELF-18D427F
	33.0	0.5	PLK1029-ND◆	4.55	39.03	325.25	1942.00	ELF-18D428
	27.0	0.6	PLK1258-ND◆	4.55	39.03	325.25	1942.00	ELF-18D423
	22.0	0.6	PLK1259-ND	4.55	39.03	325.25	1942.00	ELF-18D422
	18.0	0.7	PLK1260-ND	4.55	39.03	325.25	1942.00	ELF-18D417
	18.0	0.8	PLK1268-ND◆	4.55	39.03	325.25	1942.00	ELF-18D417F
	12.0	0.9	PLK1028-ND	4.55	39.03	325.25	1942.00	ELF-18D430
	10.0	1.0	PLK1031-ND◆	4.55	39.03	325.25	1942.00	ELF-18D431F
	8.2	1.0	PLK1261-ND	4.55	39.03	325.25	1942.00	ELF-18D415
	6.8	1.2	PLK1262-ND	4.55	39.03	325.25	1942.00	ELF-18D412
	5.6	1.3	PLK1263-ND	4.55	39.03	325.25	1942.00	ELF-18D424
	5.6	1.4	PLK1269-ND◆	4.55	39.03	325.25	1942.00	ELF-18D424F
	3.9	1.5	PLK1264-ND	4.55	39.03	325.25	1942.00	ELF-18D433
	3.3	1.8	PLK1265-ND◆	4.55	39.03	325.25	1942.00	ELF-18D414
	2.7	2.0	PLK1270-ND◆	4.55	39.03	325.25	1942.00	ELF-18D434F
	2.2	2.0	PLK1027-ND◆	4.55	39.03	325.25	1942.00	ELF-18D416
	2.2	2.2	PLK1030-ND	4.55	39.03	325.25	1942.00	ELF-18D435F
	1.5	2.4	PLK1026-ND◆	4.55	39.03	325.25	1942.00	ELF-18D419
	1.2	3.0	PLK1271-ND	4.55	39.03	325.25	1942.00	ELF-18D420F
	0.56	3.4	PLK1272-ND◆	4.55	39.03	325.25	1942.00	ELF-18D441F

Type	Induc-tance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing				Panasonic Part No.
				1	10	100	1,000	
600	100.0	0.4	PLK1273-ND◆	5.75	49.29	410.75	2452.00	ELF-18D620
	68.0	0.5	PLK1274-ND◆	5.75	49.29	410.75	2452.00	ELF-18D607
	47.0	0.7	PLK1287-ND	5.75	49.29	410.75	2452.00	ELF-18D605F
	39.0	0.7	PLK1275-ND	5.75	49.29	410.75	2452.00	ELF-18D615
	33.0	0.8	PLK1036-ND	5.75	49.29	410.75	2452.00	ELF-18D624F
	27.0	0.8	PLK1276-ND	5.75	49.29	410.75	2452.00	ELF-18D618
	27.0	1.0	PLK1288-ND	5.75	49.29	410.75	2452.00	ELF-18D618F
	22.0	1.0	PLK1034-ND◆	5.75	49.29	410.75	2452.00	ELF-18D612
	18.0	1.0	PLK1277-ND	5.75	49.29	410.75	2452.00	ELF-18D606
	18.0	1.2	PLK1289-ND	5.75	49.29	410.75	2452.00	ELF-18D606F
	12.0	1.3	PLK1278-ND	5.75	49.29	410.75	2452.00	ELF-18D609
	12.0	1.6	PLK1290-ND◆	5.75	49.29	410.75	2452.00	ELF-18D609F
	10.0	1.4	PLK1279-ND	5.75	49.29	410.75	2452.00	ELF-18D616
	10.0	1.6	PLK1291-ND	5.75	49.29	410.75	2452.00	ELF-18D601F
	8.2	1.7	PLK1280-ND	5.75	49.29	410.75	2452.00	ELF-18D602
	5.6	1.8	PLK1281-ND	5.75	49.29	410.75	2452.00	ELF-18D603
	5.6	2.1	PLK1292-ND	5.75	49.29	410.75	2452.00	ELF-18D603F
	4.7	2.0	PLK1282-ND◆	5.75	49.29	410.75	2452.00	ELF-18D604
	4.7	2.5	PLK1293-ND	5.75	49.29	410.75	2452.00	ELF-18D604F
	3.9	2.2	PLK1283-ND	5.75	49.29	410.75	2452.00	ELF-18D613
	3.3	2.5	PLK1033-ND	5.75	49.29	410.75	2452.00	ELF-18D605
	2.7	2.6	PLK1284-ND	5.75	49.29	410.75	2452.00	ELF-18D611
	2.2	2.8	PLK1035-ND	5.75	49.29	410.75	2452.00	ELF-18D617F
	1.8	2.8	PLK1285-ND	5.75	49.29	410.75	2452.00	ELF-18D614
	1.5	3.1	PLK1286-ND	5.75	49.29	410.75	2452.00	ELF-18D610
	1.0	3.4	PLK1032-ND	5.75	49.29	410.75	2452.00	ELF-18D608
F Series								
23F	50.0	0.3	PLK1039-ND	9.85	84.39	703.25	4198.00	ELF-23F003A
	20.0	0.5	PLK1041-ND	9.85	84.39	703.25	4198.00	ELF-23F005A
	14.0	0.6	PLK1042-ND	9.85	84.39	703.25	4198.00	ELF-23F006A
	8.0	0.8	PLK1044-ND	9.85	84.39	703.25	4198.00	ELF-23F008A
	6.0	0.9	PLK1045-ND	9.85	84.39	703.25	4198.00	ELF-23F009A
	5.0	1.0	PLK1046-ND◆	9.85	84.39	703.25	4198.00	ELF-23F010A
	3.5	1.2	PLK1047-ND	9.85	84.39	703.25	4198.00	ELF-23F012A
	2.0	1.6	PLK1048-ND	9.85	84.39	703.25	4198.00	ELF-23F016A
	1.5	1.8	PLK1049-ND	9.85	84.39	703.25	4198.00	ELF-23F018A
	1.2	2.0	PLK1050-ND	9.85	84.39	703.25	4198.00	ELF-23F020A
	1.0	2.2	PLK1051-ND	9.85	84.39	703.25	4198.00	ELF-23F022A
25F	20.0	0.7	PLK1053-ND	11.49	98.46	820.50	4898.00	ELF-25F107A
	12.0	0.9	PLK1055-ND	11.49	98.46	820.50	4898.00	ELF-25F109A
	10.0	1.0	PLK1056-ND◆	11.49	98.46	820.50	4898.00	ELF-25F110A
	7.0	1.2	PLK1057-ND	11.49	98.46	820.50	4898.00	ELF-25F112A
	5.0	1.4	PLK1058-ND	11.49	98.46	820.50	4898.00	ELF-25F114A
	4.0	1.6	PLK1059-ND	11.49	98.46	820.50	4898.00	ELF-25F116A
	3.0	1.8	PLK1060-ND	11.49	98.46	820.50	4898.00	ELF-25F118A
	2.0	2.0	PLK1061-ND	11.49	98.46	820.50	4898.00	ELF-25F020A
	1.6	2.2	PLK1062-ND	11.49	98.46	820.50	4898.00	ELF-25F022A
	1.3	2.5	PLK1063-ND	11.49	98.46	820.50	4898.00	ELF-25F025A
M Series								
11M	30.0	0.1	PLK1136-ND◆	2.96	25.41	211.73	1264.02	ELF-11M010E
	12.0	0.2	PLK1137-ND◆	2.96	25.41	211.73	1264.02	ELF-11M020E
	6.0	0.3	PLK1138-ND◆	2.96	25.41	211.73	1264.02	ELF-11M030E
	3.5	0.4	PLK1139-ND◆	2.96	25.41	211.73	1264.02	ELF-11M040E
	2.5	0.5	PLK1140-ND	2.96	25.41	211.73	1264.02	ELF-11M050E
	1.5	0.6	PLK1141-ND◆	2.96	25.41	211.73	1264.02	ELF-11M060E
	1.0	0.7	PLK1142-ND	2.96	25.41	211.73	1264.02	ELF-11M070E
	0.8	0.8	PLK1143-ND	2.96	25.41	211.73	1264.02	ELF-11M080E
	0.7	0.9	PLK1144-ND◆	2.96	25.41	211.73	1264.02	ELF-11M090E
	0.5	1.0	PLK1145-ND◆	2.96	25.41	211.73	1264.02	ELF-11M100E
14M	30.0	0.1	PLK1146-ND◆	3.26	27.95	232.90	1390.44	ELF-14M010E
	12.0	0.2	PLK1147-ND◆	3.26	27.95	232.90	1390.44	ELF-14M020E
	6.0	0.3	PLK1148-ND◆	3.26	27.95	232.90	1390.44	ELF-14M030E
	3.5	0.4	PLK1149-ND◆	3.26	27.95	232.90	1390.44	ELF-14M040E
	2.5	0.5	PLK1150-ND◆	3.26	27.95	232.90	1390.44	ELF-14M050E
	1.5	0.6	PLK1151-ND◆	3.26	27.95	232.90	1390.44	ELF-14M060E
	1.0	0.7	PLK1152-ND◆	3.26	27.95	232.90	1390.44	ELF-14M070E
	0.8	0.8	PLK1153-ND◆	3.26	27.95	232.90	1390.44	ELF-14M080E
	0.7	0.9	PLK1154-ND◆	3.26	27.95	232.90	1390.44	ELF-14M090E
	0.5	1.0	PLK1155-ND◆	3.26	27.95	232.90	1390.44	ELF-14M100E
16M	28.0	0.2	PLK1156-ND◆	1.80	15.46	128.80	768.95	ELF-16M020A
	20.0	0.3	PLK1157-ND◆	1.80	15.46	128.80	768.95	ELF-16M030A
	15.0	0.4	PLK1158-ND◆	1.80	15.46	128.80	768.95	ELF-16M040A
	8.0	0.5	PLK1159-ND◆	1.80	15.46	128.80	768.95	ELF-16M050A
	7.0	0.6	PLK1160-ND◆	1.80	15.46	128.80	768.95	ELF-16M060A
	5.0	0.7	PLK1161-ND◆	1.80	15.46	128.80	768.95	ELF-16M070A
	3.5	0.8	PLK1162-ND	1.80	15.46	128.80	768.95	ELF-16M080A
	2.0	1.0	PLK1163-ND	1.80	15.46	128.80	768.95	ELF-16M100A
	1.0	1.3	PLK1164-ND	1.80	15.46	128.80	768.95	ELF-16M130A
	0.8	1.5	PLK1165-ND	1.80	15.46	128.80	768.95	ELF-16M150A
	0.6	1.7	PLK1166-ND	1.80	15.46	128.80	768.95	ELF-16M170A
	0.5	2.0	PLK1167-ND◆	1.80	15.46	128.80	768.95	ELF-16M200A
N Series								
15N	104.0	0.2	PLK1064-ND◆	2.42	20.76	173.00	1033.00	ELF-15N002A
	43.0	0.3	PLK1065-ND◆	2.42	20.76	173.00	1033.00	ELF-15N003A
	26.0	0.4	PLK1066-ND	2.42	20.76	173.00	1033.00	ELF-15N004A
	19.0	0.5	PLK1067-ND◆	2.42	20.76	173.00	1033.00	ELF-15N005A
	12.0	0.6	PLK1068-ND◆	2.42	20.76	173.00	1033.00	ELF-15N006A

◆ RoHS Compliant

(Continued)

Panasonic Line Filters *(Cont.)*

Type	Inductance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
15N	10.0	0.7	PLK1069-ND◆	2.42	20.76	173.00	1033.00	ELF-15N007A
	6.8	0.8	PLK1070-ND◆	2.42	20.76	173.00	1033.00	ELF-15N008A
	5.3	1.0	PLK1071-ND◆	2.42	20.76	173.00	1033.00	ELF-15N010A
	4.0	1.1	PLK1072-ND◆	2.42	20.76	173.00	1033.00	ELF-15N011A
	2.7	1.3	PLK1073-ND	2.42	20.76	173.00	1033.00	ELF-15N013A
	2.1	1.5	PLK1074-ND◆	2.42	20.76	173.00	1033.00	ELF-15N015A
	1.7	1.7	PLK1075-ND◆	2.42	20.76	173.00	1033.00	ELF-15N017A
	1.0	2.2	PLK1076-ND◆	2.42	20.76	173.00	1033.00	ELF-15N022A
	0.6	3.0	PLK1077-ND◆	2.42	20.76	173.00	1033.00	ELF-15N030A
18N	80.0	0.4	PLK1078-ND	4.67	40.05	333.75	1993.00	ELF-18N004A
	50.0	0.5	PLK1079-ND◆	4.67	40.05	333.75	1993.00	ELF-18N005A
	35.0	0.6	PLK1080-ND◆	4.67	40.05	333.75	1993.00	ELF-18N006A
	20.0	0.8	PLK1081-ND◆	4.67	40.05	333.75	1993.00	ELF-18N008A
	15.0	1.0	PLK1082-ND◆	4.67	40.05	333.75	1993.00	ELF-18N010A
	9.5	1.2	PLK1083-ND◆	4.67	40.05	333.75	1993.00	ELF-18N012A
	6.0	1.6	PLK1084-ND◆	4.67	40.05	333.75	1993.00	ELF-18N016A
	4.2	2.0	PLK1085-ND◆	4.67	40.05	333.75	1993.00	ELF-18N020A
	2.4	2.5	PLK1086-ND◆	4.67	40.05	333.75	1993.00	ELF-18N025A
	1.4	3.2	PLK1087-ND◆	4.67	40.05	333.75	1993.00	ELF-18N032A
20N	69.0	0.6	PLK1088-ND	5.11	43.77	364.75	2178.00	ELF-20N006A
	43.0	0.8	PLK1089-ND◆	5.11	43.77	364.75	2178.00	ELF-20N008A
	28.0	1.0	PLK1090-ND	5.11	43.77	364.75	2178.00	ELF-20N010A
	18.0	1.3	PLK1091-ND◆	5.11	43.77	364.75	2178.00	ELF-20N013A
	14.0	1.5	PLK1092-ND	5.11	43.77	364.75	2178.00	ELF-20N015A
	12.0	1.6	PLK1093-ND◆	5.11	43.77	364.75	2178.00	ELF-20N016A
	7.5	1.8	PLK1094-ND	5.11	43.77	364.75	2178.00	ELF-20N018A
	7.0	2.0	PLK1095-ND◆	5.11	43.77	364.75	2178.00	ELF-20N020A
	6.2	2.2	PLK1096-ND	5.11	43.77	364.75	2178.00	ELF-20N022A
	4.9	2.4	PLK1097-ND	5.11	43.77	364.75	2178.00	ELF-20N024A
	4.7	2.7	PLK1098-ND◆	5.11	43.77	364.75	2178.00	ELF-20N027A
	2.9	3.0	PLK1099-ND◆	5.11	43.77	364.75	2178.00	ELF-20N030A
	2.0	3.5	PLK1100-ND	5.11	43.77	364.75	2178.00	ELF-20N035A
	1.5	4.0	PLK1101-ND◆	5.11	43.77	364.75	2178.00	ELF-20N040A

Type	Inductance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
			High N Series					
17N	142.0	0.2	PLK1168-ND◆	1.42	12.21	101.75	607.00	ELF-17N002A
	60.0	0.3	PLK1169-ND◆	1.42	12.21	101.75	607.00	ELF-17N003A
	35.0	0.4	PLK1170-ND◆	1.42	12.21	101.75	607.00	ELF-17N004A
	26.0	0.5	PLK1171-ND◆	1.42	12.21	101.75	607.00	ELF-17N005A
	16.0	0.6	PLK1172-ND◆	1.42	12.21	101.75	607.00	ELF-17N006A
	14.0	0.7	PLK1173-ND◆	1.42	12.21	101.75	607.00	ELF-17N007A
	9.2	0.8	PLK1174-ND	1.42	12.21	101.75	607.00	ELF-17N008A
	7.2	1.0	PLK1175-ND◆	1.42	12.21	101.75	607.00	ELF-17N010A
	5.4	1.1	PLK1176-ND◆	1.42	12.21	101.75	607.00	ELF-17N011A
	3.7	1.3	PLK1177-ND	1.42	12.21	101.75	607.00	ELF-17N013A
	2.9	1.5	PLK1178-ND◆	1.42	12.21	101.75	607.00	ELF-17N015A
	2.3	1.7	PLK1179-ND◆	1.42	12.21	101.75	607.00	ELF-17N017A
	1.3	2.2	PLK1180-ND	1.42	12.21	101.75	607.00	ELF-17N022A
	0.8	3.0	PLK1181-ND◆	1.42	12.21	101.75	607.00	ELF-17N030A
19N	99.0	0.4	PLK1182-ND	2.57	22.05	183.75	1097.00	ELF-19N004A
	62.0	0.5	PLK1183-ND	2.57	22.05	183.75	1097.00	ELF-19N005A
	43.0	0.6	PLK1184-ND◆	2.57	22.05	183.75	1097.00	ELF-19N006A
	25.0	0.8	PLK1185-ND	2.57	22.05	183.75	1097.00	ELF-19N008A
	19.0	1.0	PLK1186-ND◆	2.57	22.05	183.75	1097.00	ELF-19N010A
	12.0	1.2	PLK1187-ND◆	2.57	22.05	183.75	1097.00	ELF-19N012A
	7.4	1.6	PLK1188-ND	2.57	22.05	183.75	1097.00	ELF-19N016A
	5.1	2.0	PLK1189-ND◆	2.57	22.05	183.75	1097.00	ELF-19N020A
	3.0	2.5	PLK1190-ND◆	2.57	22.05	183.75	1097.00	ELF-19N025A
	1.7	3.2	PLK1191-ND◆	2.57	22.05	183.75	1097.00	ELF-19N032A
21N	87.0	0.6	PLK1192-ND◆	3.31	28.36	236.30	1410.74	ELF-21N006A
	54.0	0.8	PLK1193-ND◆	3.31	28.36	236.30	1410.74	ELF-21N008A
	36.0	1.0	PLK1194-ND◆	3.31	28.36	236.30	1410.74	ELF-21N010A
	22.0	1.3	PLK1195-ND	3.31	28.36	236.30	1410.74	ELF-21N013A
	18.0	1.5	PLK1196-ND◆	3.31	28.36	236.30	1410.74	ELF-21N015A
	15.0	1.6	PLK1197-ND	3.31	28.36	236.30	1410.74	ELF-21N016A
	9.4	1.8	PLK1198-ND◆	3.31	28.36	236.30	1410.74	ELF-21N018A
	8.7	2.0	PLK1199-ND◆	3.31	28.36	236.30	1410.74	ELF-21N020A
	7.8	2.2	PLK1200-ND	3.31	28.36	236.30	1410.74	ELF-21N022A
	6.1	2.4	PLK1201-ND	3.31	28.36	236.30	1410.74	ELF-21N024A
	5.8	2.7	PLK1202-ND◆	3.31	28.36	236.30	1410.74	ELF-21N027A
	3.7	3.0	PLK1203-ND	3.31	28.36	236.30	1410.74	ELF-21N030A
	2.5	3.5	PLK1204-ND	3.31	28.36	236.30	1410.74	ELF-21N035A
	1.9	4.0	PLK1205-ND◆	3.31	28.36	236.30	1410.74	ELF-21N040A

◆ RoHS Compliant

Ring Core Ferrites **TT Series**

RoHS COMPLIANT

Fig. 1

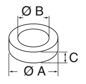

Fig. 2

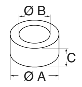

Fig. 3

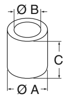

Applications: General purpose noise reduction, such as for power circuits, motor areas and TV circuits.
Measuring Wire: UL1015 AWG #14, 100mm, 1 turn

Fig.	Dimensions – mm A	B	C	Typical Impedance (Ω) 30MHz	50MHz	100MHz	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
1	12.0	8.0	5.5	20	27	42	P12713-ND	.41	.30	.20	KR16TT120805
	13.0	7.1	6.3	30	40	55	P12715-ND	.49	.36	.24	KR16TT130706
	16.0	12.0	8.0	20	30	45	P12721-ND	.49	.36	.24	KR16TT161208
	18.0	10.0	6.0	30	40	55	P12722-ND	.62	.45	.30	KR16TT181006
	18.0	10.0	10.0	35	50	80	P12723-ND	.66	.48	.32	KR16TT181010
	18.5	10.0	8.0	42	51	68	P12724-ND	.57	.42	.28	KR16TT191008
	18.5	10.0	10.0	35	50	80	P12725-ND	.62	.45	.30	KR16TT191010
	20.5	10.6	10.3	55	65	80	P11378-ND	.70	.51	.34	KR16TT201110
	20.5	10.6	12.0	65	75	95	P11379-ND	.74	.54	.36	KR16TT201112
	22.0	14.0	6.0	25	30	48	P11380-ND	.62	.45	.30	KR16TT221406
	22.0	14.0	10.0	35	45	60	P11381-ND	.78	.57	.38	KR16TT221410
	25.0	15.0	8.0	35	44	64	P11382-ND	1.07	.78	.52	KR16TT251508
	25.0	15.0	12.0	35	50	80	P11383-ND	1.19	.87	.58	KR16TT251512
	28.5	18.0	7.5	30	40	60	P11385-ND	.90	.66	.44	KR16TT281807
	28.5	18.0	15.0	53	67	88	P11386-ND	1.52	1.11	.74	KR16TT281815
2	9.0	6.0	10.0	30	38	56	P12710-ND	.49	.36	.24	KR16TT090610
	9.5	4.9	10.4	40	50	70	P12711-ND	.57	.42	.28	KR16TT100510
	12.0	8.0	15.0	35	50	80	P12714-ND	.49	.36	.24	KR16TT120815
	16.0	9.0	18.0	80	95	110	P12719-ND	.94	.69	.46	KR16TT160918
	26.0	13.0	29.0	155	170	160	P11384-ND	2.34	1.71	1.14	KR16TT261329
3	10.7	6.4	20.0	72	88	110	P12712-ND	.82	.60	.40	KR16TT110620
	14.3	6.4	20.0	120	140	140	P12716-ND	.90	.66	.44	KR16TT140620
	14.3	6.4	28.6	200	220	175	P12717-ND	1.19	.87	.58	KR16TT140629
	16.0	7.8	28.0	150	180	170	P12718-ND	1.31	.96	.64	KR16TT160828
	16.0	9.0	28.0	120	140	140	P12720-ND	1.39	1.02	.68	KR16TT160928
	18.5	10.0	29.0	130	150	150	P11377-ND	1.52	1.11	.74	KR16TT191029

Flat Cable Core Ferrites **FP Series**

RoHS COMPLIANT

Applications: Noise reduction for flat cables
Measuring Wire: • 1 – 1UEW 0.5, 50mm, 1turn • 2 – UL1007 AWG26, 65mm, 1turn • 3 – 1UEW 0.5, 100mm, 1 turn

Fig. 1

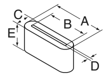

Fig. 2

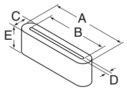

Fig. 3

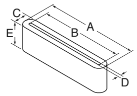

Fig.	Measuring Wire	Dimensions – mm A	B	C	D	E	Typical Impedance (Ω) 30MHz	50MHz	100MHz	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
1	1	22.5	17.5	6.0	1.0	10.3	32	40	56	P11387-ND	.82	.60	.40	KR16FP220610
2	3	33.5	27.0	6.5	1.3	10.0	28	38	73	P11388-ND	.86	.63	.42	KR16FP340710
	2	33.5	28.5	7.5	2.5	12.0	25	32	53	P11389-ND	.90	.66	.44	KR16FP340812
	2	36.0	31.0	6.5	1.5	9.0	23	30	48	P11390-ND	.86	.63	.42	KR16FP360709
3	2	40.0	34.8	6.5	1.3	10.0	24	34	65	P11391-ND	1.03	.75	.50	KR16FP400710
	3	45.2	40.0	6.5	1.3	12.0	28	40	83	P11392-ND	1.15	.84	.56	KR16FP450712

Ring Core with Casing Ferrites

RoHS COMPLIANT

TA and TB Series

Applications: Low frequency noise reduction. TB Series has Fixed Hole.

Material of Case: PP

Measuring Wire: UL1015 AWG #14, 100mm, 1 turn

Fig. 1

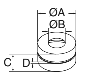

Fig. 2

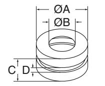

Fig. 3

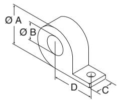

Fig.	Case Color	Dimensions – mm A	B	C	D	Typical Impedance Ω / MHz			Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
						TA Series							
1	White	19.6	8.7	11.0	1.0†	35/30	50/50	80/100	P11398-ND	1.15	.84	.56	KR16TA191010W
2	White	26.5	13.5	14.0	3.0†	35/30	50/50	80/100	P11399-ND	1.68	1.23	.82	KR16TA251512W
2	Black	26.5	13.5	14.0	3.0†	20/1	18/5	14/10	P11400-ND	1.80	1.32	.88	KR50TA251512B1
						TB Series							
3	Black	29.5	13.4	13.5	23.0	35/30	50/50	80/100	P11401-ND	2.34	1.71	1.14	KR16TB251512B1

† Maximum

Snap-On Core Ferrites

RoHS COMPLIANT

KRCB Series

Applications: Noise reduction on AC power cable for PCs and other electronic devices. Their "snap-on" construction allows for easy installation at any point in the production cycle.

Material of Case: Nylon 66 **Material of Core:** KR16 **Measuring Wire:** UL1015 AWG #14, 100mm, 1turn

Fig. 1

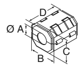

Fig. 2

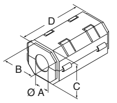

Fig. 3

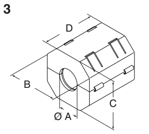

Fig.	Case Color	Dimensions – mm A	B	C	D	Typical Impedance (Ω) 30MHz	50MHz	100MHz	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
1	Black	6.5	19.0	15.5	21.0	35	50	80	P11393-ND	1.39	1.02	.68	KRCBC130714B
	White	6.5	19.0	15.5	21.0	35	50	80	P11394-ND	1.48	1.08	.72	KRCBG130714
2	Black	8.5	22.0	21.0	37.0	110	140	140	P11395-ND	2.58	1.89	1.26	KRCBC160928B
	White	8.5	22.0	21.0	37.0	110	140	140	P11396-ND	2.46	1.80	1.20	KRCBN160928
3	Black	12.8	33.0	31.5	34.0	130	160	170	P11397-ND	5.74	4.20	2.80	KRCBC261329B

AC Line Cords

- **Temperature Rating:** 60°C
- **Volt Rating:** 125VAC
- **Small Appliance Line Cord:** NEMA 1-15 P Polarized Plug
- **Male Plug Power Cord:** NEMA 5-15 P Plug
- **Detachable Power Cord:** NEMA 5-15 P Plug, IEC 320 Connector

SPT-1: All thermoplastic, parallel-jacketed, with or without third conductor for grounding purposes only. Light duty cord for pendant or portable use in damp locations. 300V

SPT-2: Thermoplastic, PVC/No jacket, 16-18AWG, 2 or 3 Conductors, 300V

SVT: Two or three-conductor, all plastic construction with or without third conductor for grounding purposes only. 300V, 60° C

SJT: Junior hard service thermoplastic or rubber-insulated conductors with overall thermoplastic jacket. 300V, 60°C ~ 105°C

H05VV-F: Unshielded, CEC, 250V 70°C

Fig. 1

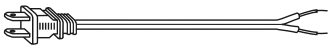

Fig. 2

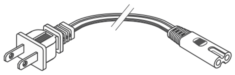

Fig. 3

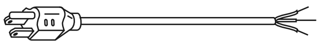

Fig. 4

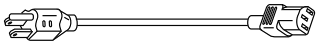

Fig. 5

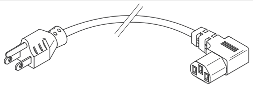

Fig. 6

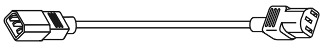

Fig. 7

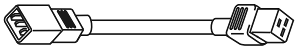

Fig. 8

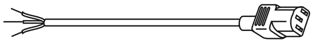

Fig. 9

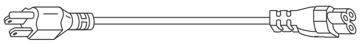

Fig. 10

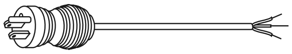

Fig. 11

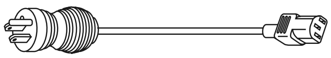

Fig. 12

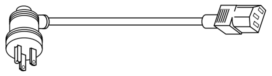

Fig. 13

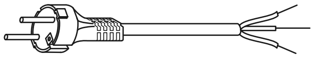

Fig. 14

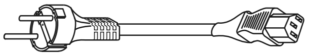

Fig. 15

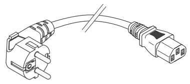

Fig. 16

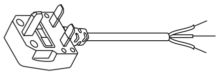

Fig. 17

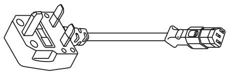

Fig. 18

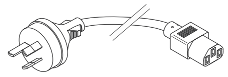

Fig. 19

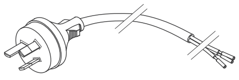

Fig. 20

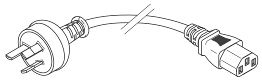

Fig. 21

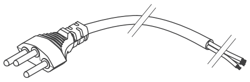

Fig. 22

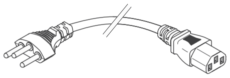

Fig. 23

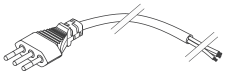

Fig. 24

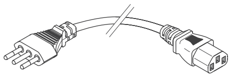

Fig. 25

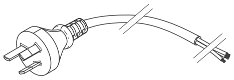

Fig. 26

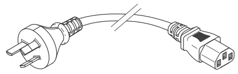

Fig. 27

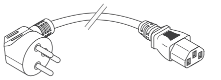

Fig. 28

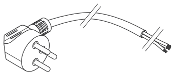

Fig.	Description	Color Code‡	Length Feet (Meter)	Cord/Plug Color	AWG	Rating Amps @ 125V	Cord Type	Digi-Key Part No.	Price Each 1	10	100	250	Qualtek Part No.
						North American Power Cords							
1	**Small Appliance** **Line Cord** UL Listed CUL	—	6'0" (1.83)	Brown/Brown	18/2	10	SPT-1	Q100-ND	2.23	2.01	1.62	1.37	221001-03
			6'0" (1.83)	White/White	18/2	10	SPT-1	Q101-ND	2.23	2.01	1.62	1.37	221001-08
			6'0" (1.83)	Black/Black	18/2	10	SPT-1	Q114-ND	2.23	2.02	1.62	1.37	221001-01
			9'0" (2.74)	Black/Black	18/2	10	SPT-1	Q121-ND	3.31	2.99	2.41	2.03	221002-01
2		—	6'0" (1.83)	Black/Black	18/2	7	SPT-2	Q348-ND	3.08	2.79	2.24	1.89	223020-01
			8'0" (2.44)	Black/Black	18/2	7	SPT-2	Q349-ND	3.77	3.41	2.74	2.31	223021-01
3	**Male Plug** **Power Cord** UL Listed CUL	CEE	6'7" (2.01)	Black/Black	18/3	10	SVT	Q106-ND	4.74	4.28	3.44	2.91	311007-01
			9'10" (3.00)	Black/Black	18/3	10	SVT	Q107-ND	6.45	5.83	4.69	3.96	311010-01
			6'7" (2.01)	Black/Black	18/3	10	SJT	Q108-ND	5.02	4.54	3.65	3.08	311013-01
			9'10" (3.00)	Black/Black	18/3	10	SJT	Q109-ND	6.62	5.99	4.81	4.06	311016-01
			6'7" (2.01)	Black/Black	16/3	13	SJT	Q110-ND	6.51	5.88	4.73	3.99	311019-01
			9'10" (3.00)	Black/Black	16/3	13	SJT	Q111-ND	9.70	8.77	7.05	5.95	311022-01
			6'7" (2.01)	Black/Black	14/3	15	SJT	Q112-ND	9.82	8.87	7.13	6.02	311024-01
			9'10" (3.00)	Black/Black	14/3	15	SJT	Q113-ND	13.56	12.25	9.85	8.32	311027-01
		North American	8'0" (2.44)	Gray/Gray	18/3	10	SVT	Q122-ND	5.48	4.95	3.98	3.36	211012-06
			8'0" (2.44)	Gray/Gray	18/3	10	SJT	Q123-ND	5.54	5.01	4.02	3.40	211018-06
4	**Detachable** **Power Cord** UL Listed CUL	CEE	6'7" (2.01)	Black/Black	18/3	10	SJT	Q102-ND	5.59	5.05	4.06	3.43	312007-01
			9'10" (3.00)	Black/Black	18/3	10	SJT	Q103-ND	7.54	6.81	5.47	4.62	312010-01
			6'7" (2.01)	Black/Black	16/3	13	SJT	Q115-ND	7.42	6.71	5.39	4.55	312011-01
			9'10" (3.00)	Black/Black	16/3	13	SJT	Q116-ND	10.10	9.13	7.34	6.20	312014-01
			9'10" (3.00)	Black/Black	16/3	13	SJT	Q120-ND†	18.15	16.40	13.18	11.13	312040-01
			7'6" (2.29)	Black/Black	16/3	13	SJT	Q124-ND	8.68	7.84	6.30	5.32	212013-01
			7'6" (2.29)	Black/Black	18/3	10	SVT	Q125-ND	5.94	5.37	4.31	3.64	312003-01
			7'6" (2.29)	Black/Black	18/3	10	SVT	Q126-ND*	6.34	5.73	4.60	3.89	312021-01
			7'6" (2.29)	Black/Black	18/3	10	SJT	Q352-ND	6.91	6.24	5.02	4.24	312008-01
			9'10" (3.00)	Black/Black	14/3	15	SJT	Q353-ND	14.23	12.86	10.33	8.73	312019-01
		North American	7'6" (2.29)	Black/Black	18/3	10	SVT	Q347-ND	6.17	5.57	4.48	3.78	212004-01
5	**Detachable** **Power Cord** UL Listed CUL	CEE	6'7" (2.01)	Black/Black	18/3	10	SJT	Q104-ND	5.94	5.37	4.31	3.64	313006-01
			6'7" (2.01)	Black/Black	16/3	13	SJT	Q117-ND	9.00	8.14	6.54	5.52	313010-01
			9'10" (3.00)	Black/Black	18/3	10	SJT	Q105-ND	8.16	7.38	5.93	5.01	313009-01
			9'10" (3.00)	Black/Black	16/3	13	SJT	Q118-ND	10.85	9.80	7.88	6.65	313014-01
			9'10" (3.00)	Black/Black	16/3	13	SJT	Q119-ND†	23.98	21.66	17.41	14.70	313026-01
			7'6" (2.29)	Black/Black	18/3	10	SVT	Q354-ND	5.71	5.16	4.15	3.50	313001-01
			6'7" (2.01)	Black/Black	18/3	10	SVT	Q355-ND	5.42	4.90	3.94	3.33	313003-01
			7'6" (2.29)	Black/Black	16/3	13	SJT	Q360-ND	8.79	7.95	6.39	5.39	313011-01

† Shielded with Mylar Foil * Temperature Rating: 105°C VW-1 ‡ ***Note:*** **CEE Color Code:** Brown/Blue/Green-Yellow; **North American Color Code:** Black/White/Green

(Continued)

Fig.	Description	Color Code‡	Length Feet (Meter)	Cord/Plug Color	AWG	Rating Amps @ 125V	Cord Type	Digi-Key Part No.	Price Each 1	10	100	250	Qualtek Part No.
6	**Detachable Power Cord** UL Listed CUL	CEE	3'3" (.99)	Black/Black	18/3	10	SVT	Q127-ND	3.83	3.46	2.78	2.35	318002-01
			3'3" (.99)	Black/Black	18/3	10	SJT	Q128-ND	4.05	3.66	2.95	2.49	318005-01
			3'3" (.99)	Black/Black	16/3	13	SJT	Q356-ND	5.08	4.59	3.69	3.12	318007-01
7		CEE	9'10" (3.00)	Black/Black	14/3	15	SJT	Q268-ND	17.52	15.83	12.72	10.75	331010-01
8		CEE	9'10" (3.00)	Black/Black	18/3	10	SJT	Q129-ND	6.79	6.14	4.93	4.17	315008-01
9		CEE	6'0" (1.83)	Black/Black	18/3	10	SVT	Q139-ND	5.37	4.85	3.90	3.29	350049-LD01
			10'0" (3.50)	Black/Black	18/3	10	SVT	Q140-ND	7.82	7.07	5.68	4.80	350050-LD01
10	**Hospital Grade** UL Listed CSA Certified	North American	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q130-ND	10.73	9.70	7.79	6.58	232003-06
			10'0" (3.05)	Gray/Gray	18/3	10	SJT	Q131-ND	10.73	9.70	7.79	6.58	232011-06
11		North American	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q132-ND	10.99	9.93	7.98	6.74	233003-06
			10'0" (3.05)	Gray/Gray	18/3	10	SJT	Q133-ND	10.99	9.93	7.98	6.74	233009-06
			8'0" (2.44)	Gray/Clear	18/3	10	SJT	Q350-ND	9.84	8.89	7.14	6.03	233002-06
			8'0" (2.44)	Gray/Gray	18/3	10	SJT	Q351-ND	9.84	8.89	7.14	6.03	233008-06
12		North American	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q263-ND	13.01	11.76	9.45	7.98	243003-06
					Universal Power Cord								
6	**Detachable Power Cord** UL Listed, CUL & VDE Certified	CEE	3'3" (.99)	Black/Black	18/3	10	SJT/ H05VV-F	Q345-ND	5.13	4.64	3.73	3.15	319002-T01
			8'2" (2.5)	Black/Black	18/3	10 @ 250V		Q136-ND	8.24	7.45	5.99	5.06	319004-T01

† Shielded with Mylar Foil * Temperature Rating: 105°C VW-1 ‡ ***Note:*** **CEE Color Code:** Brown/Blue/Green-Yellow; **North American Color Code:** Black/White/Green

Fig.	Description	Length Feet (Meter)	Color	Cord Type	Conductors (MM2)	Rating Amps @ 250V	Digi-Key Part No.	Price Each 1	10	100	250	Qualtek Part No.
					International Power Cords							
13	**Continental Europe**	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q134-ND	5.97	5.40	4.34	3.67	363012-D01
14		8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q135-ND	6.95	6.28	5.05	4.27	364002-D01
15		8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q346-ND	7.01	6.33	5.09	4.30	367003-D01
16	**United Kingdom**	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q137-ND	9.23	8.34	6.71	5.66	369003-E01
17		8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q138-ND	10.21	9.23	7.42	6.26	370001-E01
18	**Australia / New Zealand**	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q359-ND	8.36	7.56	6.08	5.13	374003-A01
19		8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q406-ND	6.25	5.65	4.54	3.83	373003-A01
19		5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q407-ND	5.11	4.62	3.71	3.13	373008-01
20		5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q408-ND	6.19	5.60	4.50	3.80	374009-01
21	**Switzerland**	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q409-ND	6.14	5.55	4.46	3.77	377003-E01
21		5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q410-ND	5.00	4.52	3.63	3.07	377009-01
22		8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q411-ND	7.33	6.63	5.33	4.50	378001-E01
22		5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q412-ND	6.08	5.50	4.42	3.73	378005-01
23	**Italy**	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q413-ND	6.08	5.50	4.42	3.73	380003-E01
23		5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q414-ND	5.00	4.52	3.63	3.07	380007-01
24		8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q415-ND	7.55	6.82	5.48	4.63	381002-D01
24		5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q416-ND	6.08	5.50	4.42	3.73	381003-01
25	**Argentina**	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q417-ND	6.57	5.94	4.77	4.03	390001-01
25		5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q419-ND	5.16	4.67	3.75	3.17	390003-01
26		8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q418-ND	4.24	3.83	3.08	2.60	390002-01
26		5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q420-ND	6.25	5.65	4.54	3.83	390004-01
27	**Israel**	8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q421-ND	7.71	6.97	5.60	4.73	398001-01
27		5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q422-ND	6.36	5.74	4.62	3.90	398002-01
28		8'2" (2.5)	Black	H05VV-F	3 x 1.00	10	Q423-ND	6.63	5.99	4.82	4.07	398005-01
28		5'9" (1.8)	Black	H05VV-F	3 x 1.00	10	Q424-ND	5.27	4.76	3.83	3.23	398006-01

AC Receptacles

Approvals:

- **719W-00:** UL,CSA, VDE
- **738W-X2/xx, 739W-X2/xx and 740W-D/02:** UL, CSA
- **701W-X2/xx, 701W-15/xx, 703W-00/xx, 704-00/00, 705-00/00, 709-00/00, 710W-00/xx, 711-00/00, 712-00/00, 716W-15/xx, 716W-X2/xx, 723W-X2/xx, 744W-00/04:** UL, CSA, VDE
- **770W-X2/xx, 771W-X2/02 and 771W-xxx/01:** UL, CSA, VDE
- **761,762,763,764,765:** UL, CSA, SEMKO
- **770W-00/01:** UL, CSA, VDE
- **736W-B-101, -102:** UL, CSA, VDE
- **738W-CX2-01:** ULR, CSA
- **848-0X/00x, 849-0X/00x, 850-0X/00x, 851-0X/00x, 858-0X/0xx, 869-0X/00x, 882-0X/0xx, 883-0X/0xx, 860-0X/0xx, 861-0X/00x, 862-0X/00x, 864-0X/00x, 880-0X/00x:** UL, CSA, VDE

Fig. 1

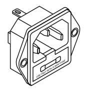

Fig. 2

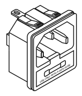

Fig. 3

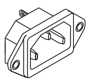

Front/Rear Mount

Fig. 4

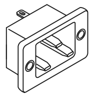

Fig. 5

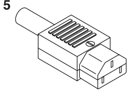

Fig. 6

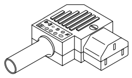

Fig. 7

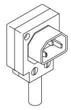

Fig. 8

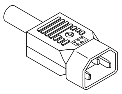

Fig.	Description	Mount Type	Panel Cutout H x W (mm)	Contact Type	Digi-Key Part No.	Price Each 1	10	100	Qualtek Part No.
				Power Inlets with Single 5x20mm Fuseholder					
1	AC Receptacle, Straight, Male	Screw	31.4 x 27.0	Solder Tab	Q201-ND	1.40	1.27	1.02	719W-00/02
	AC Receptacle, Straight, Male	Screw	31.4 x 27.0	.187" (4.75mm) Fast-On	Q202-ND	2.71	2.45	1.97	719W-00/03
	AC Receptacle, Straight, Male	Screw	31.4 x 27.0	.248" (6.35mm) Fast-On	Q203-ND	1.40	1.27	1.02	719W-00/04
2	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 31.4	Solder Tab	Q204-ND	2.71	2.45	1.97	723W-X2/02
	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 31.4	.187" (4.75mm) Fast-On	Q205-ND	1.51	1.37	1.10	723W-X2/03
	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 31.4	.248" (6.35mm) Fast-On	Q206-ND	1.51	1.37	1.10	723W-X2/04
				AC Power Inlets					
3	AC Receptacle, Straight, Male (front or rear mt.)	Screw	19.8 x 27.4 frt.	Solder Tab	Q210-ND	.92	.84	.67	703W-00/02
	AC Receptacle, Straight, Male (front or rear mt.)	Screw	or 22.8 x 30.0	.187" (4.75mm) Fast-On	Q211-ND	.92	.84	.67	703W-00/03
	AC Receptacle, Straight, Male (front or rear mt.)	Screw	rear mount	.248" (6.35mm) Fast-On	Q212-ND	.92	.84	.67	703W-00/04
4	Power Receptacle	Screw	24.5 x 32.5	.248" (6.3mm) Quick Connect	Q235-ND	1.02	.93	.75	744W-00/04
				AC Power Plug Assemblies					
5	In-Line Plug, Straight, Female	Cord	—	Screw Terminals	Q213-ND	5.27	4.77	3.83	704-00/00
6	In-Line Plug, Right Angle, Female	Cord	—	Screw Terminals	Q214-ND	7.35	6.64	5.34	705-00/00
7	In-Line Plug, Right Angle, Male	Cord	—	Screw Terminals	Q215-ND	8.75	7.91	6.36	711-00/00
8	In-Line Plug, Straight, Male	Cord	—	Screw Terminals	Q216-ND	8.75	7.91	6.36	712-00/00
9	In-Line Plug, Straight, Female	Cord	—	Screw Terminals	Q217-ND	5.83	5.27	4.23	709-00/00

(Continued)

Qualtek ELECTRONICS CORP. AC Receptacles *(Cont.)*

Fig. 9

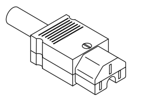

Fig. 10

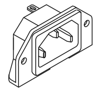

7mm Terminal Pitch

Fig. 11

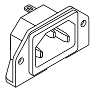

9mm Terminal Pitch

Fig. 12

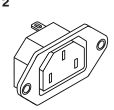

Fig. 13

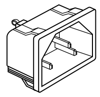

Fig. 14

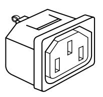

Fig. 15

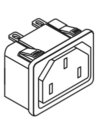

Fig. 16

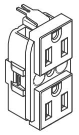

Fig. 17

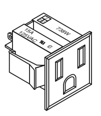

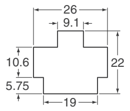

Panel Cutout

Fig. 18

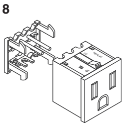

Fig. 19

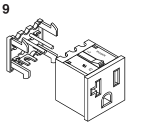

Fig. 20

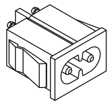

Fig. 21

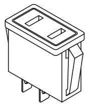

Fig. 22

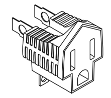

Fig. 23

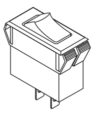

Fig. 24

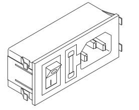

Fig. 25

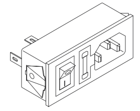

Fig. 26

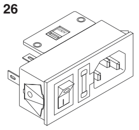

Fig. 27

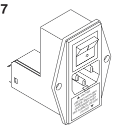

Fig. 28

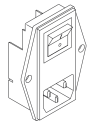

Fig. 29

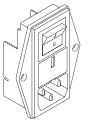

Fig. 30

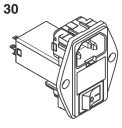

Fig. 31

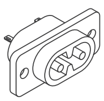

Fig.	Description	Mount Type	Panel Cutout H x W (mm)	Contact Type	Digi-Key Part No.	Price Each			Qualtek Part No.
						1	10	100	
	Angled Inlet PCB Mount								
10	AC Receptacle, Right Angle, Male	Screw	23.3 x 31.1	Round PC Terminals	Q218-ND	.97	.88	.71	703W-00/52
	AC Receptacle, Right Angle, Male	Screw	23.3 x 31.1	Flat PC Terminals	Q219-ND	.97	.88	.71	703W-00/53
11	AC Receptacle, Right Angle, Male	Screw	23.3 x 31.1	Flat PC Terminals	Q220-ND	.97	.88	.71	703W-00/54
	AC Power Inlets IEC 320								
3	AC Receptacle, Straight, Male (front or rear mt.)	Screw	19.8 x 27.4 frt. or 22.8 x 30.8 rear mount	.187" (4.75mm) Fast-On	Q335-ND	.92	.84	.67	703W-00/07
	AC Receptacle, Straight, Male (front or rear mt.)	Screw		.250" (6.35mm) Fast-On	Q336-ND	.92	.84	.67	703W-00/08
3	AC Receptacle, Straight, Male (front or rear mt.)	Screw	20.0 x 28 frt. or 22.5 x 30.3 rear mount	Solder Tab	Q334-ND	.92	.84	.67	703W-00/06
12	AC Receptacle, Straight, Female	Screw	25.0 x 32.5	Solder Tab	Q221-ND	1.13	1.02	.82	710W-00/01
	AC Receptacle, Straight, Female	Screw	25.0 x 32.5	.187" (4.75mm) Fast-On	Q222-ND	1.13	1.02	.82	710W-00/02
	AC Receptacle, Straight, Female	Screw	25.0 x 32.5	.248" (6.35mm) Fast-On	Q223-ND	1.13	1.02	.82	710W-00/03
13	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 20.5	Solder Tab	Q207-ND	.82	.74	.60	701W-X2/02
	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 20.5	.187" (4.75mm) Fast-On	Q208-ND	.82	.74	.60	701W-X2/03
	AC Receptacle, Straight, Male, .031" (0.8mm)	Snap-In	27.0 x 20.5	.248" (6.35mm) Fast-On	Q209-ND	.82	.74	.60	701W-X2/04
13	Power Receptacle, .059" (1.5mm), Male	Snap-In	27.2 x 19.7	Solder Tab	Q256-ND	.82	.74	.60	701W-15/21
	Power Receptacle, .059" (1.5mm), Male	Snap-In	27.2 x 19.7	.187" (4.7mm) Fast-On/Solder Tab	Q257-ND	.82	.74	.60	701W-15/26
	Power Receptacle, .059" (1.5mm), Male	Snap-In	27.2 x 19.7	.250" (6.35mm) Fast-On	Q258-ND	.82	.74	.60	701W-15/31
14	Power Receptacle, .059" (1.5mm), Female	Snap-In	25.3 x 32.6	Solder Tab	Q259-ND	1.18	1.07	.86	716W-15/05
	Power Receptacle, .059" (1.5mm), Female	Snap-In	25.3 x 32.6	.187" (4.7mm) Fast-On/Solder Tab	Q260-ND	1.18	1.07	.86	716W-15/10
	Power Receptacle, .059" (1.5mm), Female	Snap-In	25.3 x 32.6	.250" (6.35mm) Fast-On	Q261-ND	1.18	1.07	.86	716W-15/15
15	AC Recept., Straight, Female, .031" (0.8mm)	Snap-In	25.3 x 32.6	Solder Tab	Q224-ND	.87	.79	.64	716W-X2/01
	AC Recept., Straight, Female, .031" (0.8mm)	Snap-In	25.3 x 32.6	.187" (4.75mm) Fast-On	Q225-ND	.87	.79	.64	716W-X2/02
	AC Recept., Straight, Female, .031" (0.8mm)	Snap-In	25.3 x 32.6	.248" (6.35mm) Fast-On	Q226-ND	.87	.79	.64	716W-X2/03
	NEMA 5-15R Power Outlets								
16	AC Receptacle, Dual, Female	Screw Panel	(2) 28.5 x 27.5	Spring Contact	Q339-ND	1.23	1.11	.90	740W-D/02
17	AC Receptacle, Straight, Female, .031" (0.8mm)	Snap-In	See Drawing	.187" (4.75mm) Fast-On	Q227-ND	.85	.77	.62	738W-X2/03
	AC Receptacle, Straight, Female, .031" (0.8mm)	Snap-In		.187" (4.75mm) Fast-On	Q337-ND	.85	.77	.62	738W-X2/01
18	AC Receptacle, Straight, Female, .031" (0.8mm)	Snap-In	24.6 x 24.6	IDC Crimp Terminals	Q228-ND	.84	.76	.61	739W-X2/03
	AC Receptacle, Straight, Female, .031" (0.8mm)	Snap-In	24.5 x 24.5	IDC Crimp Terminals	Q338-ND	1.08	.98	.79	739W-X2/04
	NEMA 5-20P Power Outlets								
19	AC Receptacle, Straight, Female, .031" (0.8mm)	Snap-In	24.5 x 24.5	IDC Crimp Terminals	Q282-ND	1.18	1.07	.86	739W-X2/20
	Power Receptacles								
20	Power Receptacle	Screw	12.4 x 21.0	Solder Tab	Q269-ND	.61	.56	.45	770W-X2/03
	Power Receptacle	Panel	12.4 x 21.0	Right Angle, PCB Pins	Q273-ND	.61	.56	.45	770W-X2/10
	Power Receptacle	Snap-In	12.5 x 24.5	PCB Pins	Q277-ND	.87	.79	.64	771W-X2/02
21	Power Receptacle, 2 Conductors	Snap-In	12.4 x 22.1	4.8mm Tab	Q281-ND	.77	.70	.56	738W-CX2-01
	AC Adapter								
22	AC Adapter 3 Prong/2 Prong	—	—	Wall Plug	Q280-ND	.86	.78	.63	738W-E-01
	Circuit Breaker Switch								
23	Illuminated, Black Body with Red Actuator, 15 Amp	Panel	14.0 x 28.5	Solder Tab	Q278-ND	2.15	1.95	1.57	736W-B/101
23	Non-illuminated, Black Body with Red Actuator, 15 Amp	Panel	14.0 x 28.5	Solder Tab	Q279-ND	1.89	1.71	1.38	736W-B/102
	Multi-Function Modules with Switch								
24	Male, Plastic Housing, SPST, Single Fuse 5x20	Snap-In	66.0 x 27.0	Solder Tab	Q300-ND	8.68	6.21	5.15	761-18/003
	Male, Plastic Housing, DPST, Single Fuse 5x20	Snap-In	66.0 x 26.9	Solder Tab	Q301-ND	11.98	8.56	7.11	761-18/004
25	Male, Metal Housing, SPST, Single Fuse 5x20	Snap-In	66.0 x 27.0	.250" Fast-On	Q302-ND	11.56	8.26	6.86	762-18/002
	Male, Metal Housing, DPST, Single Fuse 5x20	Snap-In	66.0 x 27.0	.250" Fast-On	Q303-ND	18.07	12.91	10.72	762-18/003
26	Male, Metal Housing, SPST, Single Fuse 5x20	Snap-In	66.0 x 27.0	.250" Fast-On	Q304-ND	18.07	12.91	10.72	762-18/004
	Male, Metal Housing, DPST, Single Fuse 5x20	Snap-In	66.0 x 27.0	.250" Fast-On	Q305-ND	21.82	15.59	12.94	762-18/005
27	Male, Plastic Housing, DPST, 5x20 or 6.3x32mm Fuseholder	Screw	58.9 x 27.5	Solder Tab	Q306-ND	9.39	6.71	5.57	763-00/001
28	Male, Plastic Housing, DPST, Double 5x20	Screw	72.4 x 27.9	Solder Tab	Q307-ND	10.81	7.72	6.41	764-00/002
29	Male, Plastic Housing, DPST, Double 5x20	Screw	72.4 x 27.9	Solder Tab	Q308-ND	12.46	8.90	7.39	764-00/003
30	Male, Plastic Housing, DPST	Screw	55.9 x 28.5	Solder Tab	Q340-ND	10.08	9.11	7.32	765-00/001
	Low Power Inlets								
31	Male, Thermoplastic Housing	Screw	21.0 x 12.4	Solder Tab	Q309-ND	.77	.70	.56	770W-00/01
32	Male, Thermoplastic Housing	Screw	24.5 x 12.5	Solder Tab	Q310-ND	1.40	1.27	1.02	771W-AX2/01
33	Male, Thermoplastic Housing	Panel	24.5 x 12.5	Solder Tab	Q311-ND	1.08	.98	.79	771W-BX2/01
34	Male, Thermoplastic Housing	Panel	24.5 x 12.5	Solder Tab	Q312-ND	1.24	1.12	.90	771W-CX2/01
	EMI Multi-Purpose Filters								
35	3A EMI Power Line Filter	Flange	—	Fast-On	Q449-ND	13.15	9.40	7.80	848-03/001
	6A EMI Power Line Filter	Flange	—	Fast-On	Q450-ND	18.33	13.10	10.87	848-06/002
	10A EMI Power Line Filter	Flange	—	Fast-On	Q451-ND	18.33	13.10	10.87	848-10/003
	3A EMI Power Line Filter	Flange	—	Fast-On	Q425-ND	14.10	10.08	8.36	849-03/001
	6A EMI Power Line Filter	Flange	—	Fast-On	Q426-ND	18.97	13.56	11.25	849-06/002
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(Continued)

Fig. 32

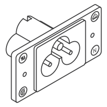

Fig. 33

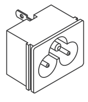

Fig. 34

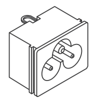

Fig. 35

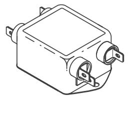

Fig. 36

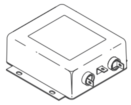

Fig. 37

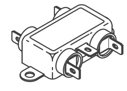

Fig. 38

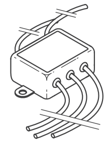

Fig. 39

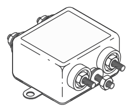

Fig. 40

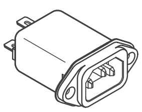

Fig. 41

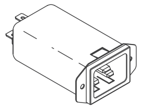

Fig. 42

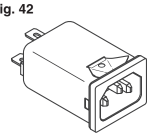

Fig. 43

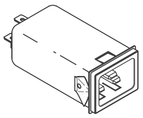

Fig. 44

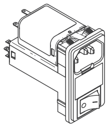

Fig. 45

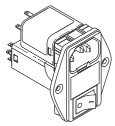

Fig. 46

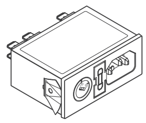

Fig. 47

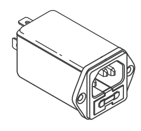

Fig. 48

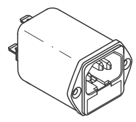

Fig. 49

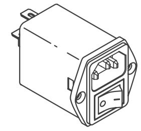

Fig. 50

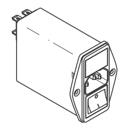

Fig. 51

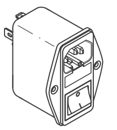

Fig. 52

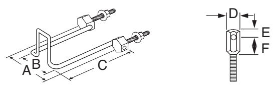

Fig.	Description	Mount Type	Panel Cutout H x W (mm)	Contact Type	Digi-Key Part No.	Price Each			Qualtek Part No.
						1	10	100	
35	3A EMI Power Line Filter	Flange	—	Fast-On	Q453-ND	14.32	10.23	8.49	850-03/001
	6A EMI Power Line Filter	Flange	—	Fast-On	Q454-ND	19.19	13.71	11.38	850-06/002
	10A EMI Power Line Filter	Flange	—	Fast-On	Q455-ND	19.19	13.71	11.38	850-10/003
36	20A EMI Power Line Filter	Flange	—	Fast-On	Q452-ND	32.99	23.57	19.56	848-20/004
	20A EMI Power Line Filter	Flange	—	Fast-On	Q428-ND	32.99	23.57	19.56	849-20/004
	20A EMI Power Line Filter	Flange	—	Fast-On	Q456-ND	33.20	23.72	19.69	850-20/004
37	3A EMI Power Line Filter	Flange	—	Fast-On	Q458-ND	10.05	7.18	5.96	851-03/003
	5A EMI Power Line Filter	Flange	—	Fast-On	Q460-ND	9.31	6.66	5.53	851-05/005
	10A EMI Power Line Filter	Flange	—	Fast-On	Q462-ND	12.07	8.63	7.16	851-10/007
38	3A EMI Power Line Filter	Flange	—	Wire-Lead	Q459-ND	9.53	6.81	5.65	851-03/004
	5A EMI Power Line Filter	Flange	—	Wire-Lead	Q461-ND	10.22	7.30	6.06	851-05/006
	10A EMI Power Line Filter	Flange	—	Wire-Lead	Q463-ND	11.17	7.98	6.63	851-10/008
39	10A EMI Power Line Filter	Flange	—	Screw Terminal	Q464-ND	16.26	11.62	9.64	851-10/009
	20A EMI Power Line Filter	Flange	—	Screw Terminal	Q465-ND	18.76	13.40	11.13	851-20/011
40	1A EMI Power Line Filter	Panel	21.2 x 30.5	Quick Connect	Q466-ND	7.46	5.33	4.43	858-01/003
	3A EMI Power Line Filter	Panel	21.2 x 30.5	Quick Connect	Q467-ND	7.46	5.33	4.43	858-03/007
	3A EMI Power Line Filter	Panel	21.2 x 30.5	Quick Connect	Q429-ND	8.62	6.16	5.12	858-03/013
	6A EMI Power Line Filter	Panel	21.6 x 28.4	Quick Connect	Q468-ND	7.46	5.33	4.43	858-06/011
	6A EMI Power Line Filter	Panel	21.2 x 30.5	Quick Connect	Q430-ND	7.46	5.33	4.43	858-06/014
	10A EMI Power Line Filter	Panel	21.2 x 30.5	Quick Connect	Q469-ND	7.94	5.67	4.71	858-10/015
	10A EMI Power Line Filter	Panel	21.2 x 30.5	Quick Connect	Q431-ND	8.84	6.32	5.25	858-10/022
41	20A EMI Power Line Filter	Panel	26.5 x 34.5	Quick Connect	Q432-ND	19.40	13.86	11.51	858-20/069
42	3A EMI Power Line Filter	Snap-In	21.9 x 28.4	Quick Connect	Q433-ND	9.79	7.00	5.81	869-03/006
	6A EMI Power Line Filter	Snap-In	21.9 x 28.4	Quick Connect	Q434-ND	9.79	7.00	5.81	869-06/007
	10A EMI Power Line Filter	Snap-In	21.9 x 28.4	Quick Connect	Q435-ND	9.79	7.00	5.81	869-10/008
43	20A EMI Power Line Filter	Snap-In	26.5 x 36.0	Quick Connect	Q436-ND	20.27	14.48	12.02	869-20/042
	EMI Multi-Function Module Filters								
44	3A EMI Power Entry Module with Fuse	Snap-In	28.5 x 55.9	Solder Tab	Q437-ND	28.46	20.33	16.88	882-03/001
	3A EMI Power Entry Module with Fuse	Snap-In	28.5 x 55.9	Solder Tab	Q438-ND	28.46	20.33	16.88	882-03/003
	6A EMI Power Entry Module with Fuse	Snap-In	28.5 x 55.9	Solder Tab	Q439-ND	28.46	20.33	16.88	882-06/011
	6A EMI Power Entry Module with Fuse	Snap-In	28.5 x 55.9	Solder Tab	Q440-ND	28.46	20.33	16.88	882-06/013
	10A EMI Power Entry Module with Fuse	Snap-In	28.5 x 55.9	Solder Tab	Q441-ND	29.06	20.76	17.24	882-10/016
	10A EMI Power Entry Module with Fuse	Snap-In	28.5 x 55.9	Solder Tab	Q442-ND	29.06	20.76	17.24	882-10/018
45	3A EMI Power Entry Module with Fuse	Panel	28.5 x 55.9	Solder Tab	Q443-ND	27.55	19.69	16.34	883-03/001
	3A EMI Power Entry Module with Fuse	Panel	28.5 x 55.9	Solder Tab	Q444-ND	27.55	19.69	16.34	883-03/003
	6A EMI Power Entry Module with Fuse	Panel	28.5 x 55.9	Solder Tab	Q445-ND	27.55	19.69	16.34	883-06/011
	6A EMI Power Entry Module with Fuse	Panel	28.5 x 55.9	Solder Tab	Q446-ND	27.55	19.69	16.34	883-06/013
	10A EMI Power Entry Module with Fuse	Panel	28.5 x 55.9	Solder Tab	Q447-ND	28.16	20.12	16.70	883-10/016
	10A EMI Power Entry Module with Fuse	Panel	28.5 x 55.9	Solder Tab	Q448-ND	28.16	20.12	16.70	883-10/018
46	6A EMI Power Entry Mod., Fuse	Snap-In	27.0 x 66.0	Fast-On	Q483-ND	27.17	19.41	16.11	862-06/007
	Fused General Purpose Filters								
47	2A EMI Power Entry Module with Fuse	Panel	29.0 x 33.1	Fast-On	Q470-ND	15.35	10.97	9.11	860-02/001
	4A EMI Power Entry Module with Fuse	Panel	29.0 x 33.1	Fast-On	Q473-ND	15.35	10.97	9.11	860-04/002
	6A EMI Power Entry Module with Fuse	Panel	29.0 x 33.1	Fast-On	Q475-ND	15.35	10.97	9.11	860-06/005
48	2A EMI Power Entry Module with Double Fuse	Panel	29.0 x 33.1	Fast-On	Q471-ND	21.43	15.31	12.71	860-02/006
	4A EMI Power Entry Module with Double Fuse	Panel	29.0 x 33.1	Fast-On	Q474-ND	22.34	15.96	13.25	860-04/014
	6A EMI Power Entry Module with Double Fuse	Panel	29.0 x 33.1	Fast-On	Q476-ND	23.55	16.82	13.96	860-06/016
49	3A EMI Power Entry Module with Fuse/Switch	Panel	28.5 x 39.0	Fast-On	Q472-ND	19.88	14.20	11.79	860-03/008
	6A EMI Power Entry Module with Fuse/Switch	Panel	28.5 x 39.0	Fast-On	Q477-ND	20.48	14.63	12.15	860-06/018
	10A EMI Power Entry Module with Fuse/Switch	Panel	28.5 x 39.0	Fast-On	Q478-ND	21.13	15.10	12.53	860-10/024
	EMI Multi-Function Module Filters with Switch								
25	6A EMI Power Entry Mod., Fuse, Without Switch	Snap-In	27.0 x 66.0	Fast-On	Q480-ND	19.75	14.11	11.71	862-06/001
	6A EMI Power Entry Mod., Fuse	Snap-In	27.0 x 66.0	Fast-On	Q481-ND	21.91	15.65	12.99	862-06/002
	6-4A EMI Power Entry Mod., Fuse	Snap-In	27.0 x 66.0	Fast-On	Q482-ND	25.40	18.15	15.06	862-06/003
50	3A EMI Power Entry Module with Double Fuse	Panel	29.0 x 60.2	Fast-On	Q484-ND	34.97	24.98	20.74	864-03/001
	3A EMI Power Entry Module with Fuse	Panel	29.0 x 60.2	Fast-On	Q485-ND	34.97	24.98	20.74	864-03/003
	6A EMI Power Entry Module with Double Fuse	Panel	29.0 x 60.2	Fast-On	Q486-ND	34.97	24.98	20.74	864-06/005
	6A EMI Power Entry Module with Fuse	Panel	29.0 x 60.2	Fast-On	Q487-ND	34.97	24.98	20.74	864-06/007
	10A EMI Power Entry Module with Double Fuse	Panel	29.0 x 60.2	Fast-On	Q488-ND	34.97	24.98	20.74	864-10/009
	10A EMI Power Entry Module with Fuse	Panel	29.0 x 60.2	Fast-On	Q489-ND	34.97	24.98	20.74	864-10/011
51	1A EMI Power Entry Module with Double Fuse	Panel	29.5 x 60.0	Fast-On	Q490-ND	29.76	21.26	17.65	880-01/001
	1A EMI Power Entry Module with Fuse	Panel	29.5 x 60.0	Fast-On	Q491-ND	29.76	21.26	17.65	880-01/004
	3A EMI Power Entry Module with Double Fuse	Panel	29.5 x 60.0	Fast-On	Q492-ND	29.76	21.26	17.65	880-03/002
	3A EMI Power Entry Module with Fuse	Panel	29.5 x 60.0	Fast-On	Q493-ND	29.76	21.26	17.65	880-03/005
	6A EMI Power Entry Module with Double Fuse	Panel	29.5 x 60.0	Fast-On	Q494-ND	30.40	21.72	18.03	880-06/003
	6A EMI Power Entry Module with Fuse	Panel	29.5 x 60.0	Fast-On	Q495-ND	30.40	21.72	18.03	880-06/006

Fig.	Dimensions - Inch (mm)						Digi-Key Part No.	Price Each				Qualtek Part No.
	A	B	C	D	E	F		1	25	50	100	
	Power Plug Retainer Clips											
52	1.80 (45.72)	1.11 (28.19)	1.40 (35.56)	.250 (6.35)	.125 (3.18)	.196 (4.98)	Q264-ND	2.85	2.40	2.17	1.90	730B-00/00
	1.80 (45.72)	1.11 (28.19)	1.40 (35.56)	.218 (5.54)	.125 (3.18)	.196 (4.98)	Q265-ND	4.13	3.47	3.14	2.75	732-00/00
	1.80 (45.72)	1.11 (28.19)	1.32 (33.53)	.250 (6.35)	.125 (3.18)	.196 (4.98)	Q266-ND	2.27	1.91	1.73	1.51	730-00/05
	1.80 (45.72)	1.11 (28.19)	1.40 (35.56)	.250 (6.35)	.125 (3.18)	.352 (8.94)	Q267-ND	3.55	2.99	2.70	2.36	731B-00/00

AC Connectors

Fig. 1

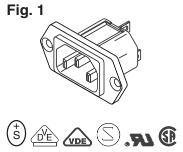

Fig. 2

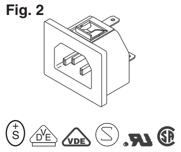

Fig. 3

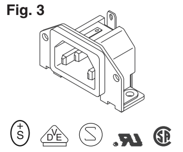

Fig. 4

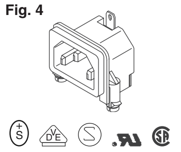

Fig. 5

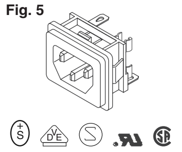

Fig. 6

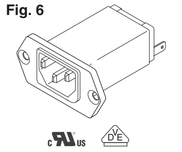

Fig. 7

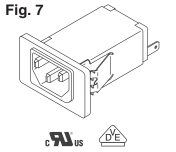

Fig. 8

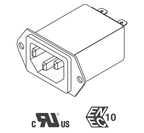

Fig. 9

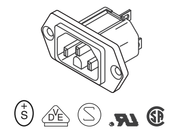

Fig. 10

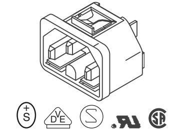

Fig. 11

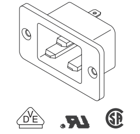

Fig. 12

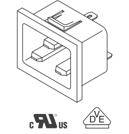

Fig. 13

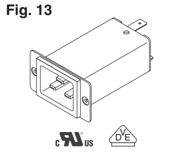

Fig. 14

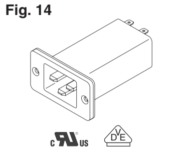

Fig. 15

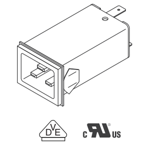

Fig. 16

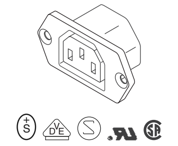

Fig. 17

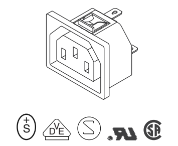

Fig. 18 ***NEW!***

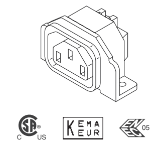

Fig. 19

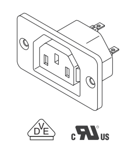

Fig. 20

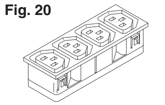

486-1026-ND:

486-1027-ND:

Fig. 21

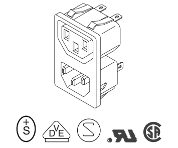

Fig. 22

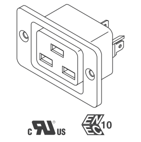

Fig. 23

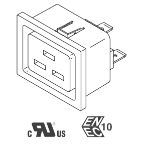

Fig. 24

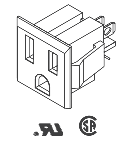

Fig. 25

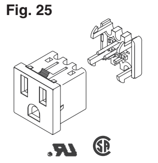

Fig. 26

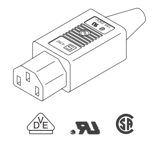

Fig. 27

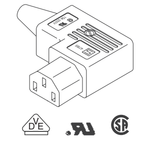

Fig. 28

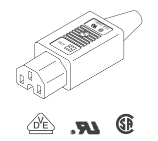

Fig. 29

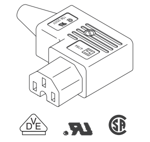

Fig. 30

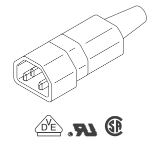

Fig. 31

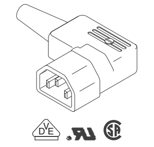

Fig. 32

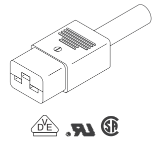

Fig. 33

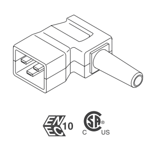

Fig. 34

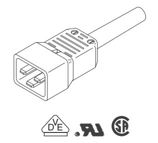

Fig. 35

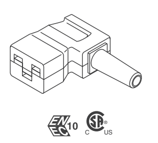

Fig. 36

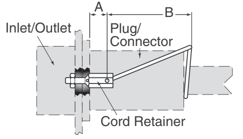

Fig.	Mounting	Terminal/ Pin Space	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
			AC Connectors				
1	Screw-On	Solder .138"	486-1001-ND	1.44	1.15	1.04	6100.3100
		Q.C. .187"	486-1002-ND	1.44	1.15	1.04	6100.3200
		Q.C. .250"	486-1003-ND	1.44	1.15	1.04	6100.3300
	Rivet	Solder .138"	486-1341-ND	1.44	1.15	1.04	6100.9100
2	Snap-In 1.5mm	Solder .138"	486-1004-ND	1.50	1.20	1.08	6100.4115
		Q.C. .187"	486-1005-ND	1.50	1.20	1.08	6100.4215
		Q.C. .250"	486-1006-ND	1.50	1.20	1.08	6100.4315
3	Screw-On	9.05/9.7mm	486-1007-ND	1.63	1.31	1.18	GSP1.8101.1
		7/7.3mm	486-1130-ND§	1.63	1.31	1.18	GSP1.9103.1
		7/7.3mm	486-1008-ND	2.13	1.71	1.54	GSP1.9113.1
4	Screw-On PCB	9.05/9.7mm	486-1009-ND	2.46	1.97	1.77	GSP2.8101.13
		7/7.3mm	486-1117-ND	3.04	2.44	2.20	GSP2.9113.13
5	Front Snap-In	Q.C. .187"	486-1011-ND	3.44	2.76	2.48	GSF2.1011.01
6	Screw-On	Q.C. .250"	486-1038-ND	16.99	13.60	12.24	5110.0133.1
7	Snap-In .8-3.0mm	Q.C. .250"	486-1039-NDΔ	16.99	13.60	12.24	5110.0343.1
		Q.C. .250"	486-1040-ND▲	16.99	13.60	12.24	5110.1043.1
8	Front or Rear Screw-On	Q.C. .250"	486-1069-ND	6.46	5.17	4.65	5120.0000.0
	Rear Screw-On	Q.C. .250"	486-1070-ND	6.46	5.17	4.65	5120.1003.0
	Rear Screw-On	Q.C. .250"	486-1071-ND	6.46	5.17	4.65	5120.1006.0
9	Screw-On	Solder .138"	486-1012-ND‡	1.97	1.58	1.43	6110.3100
		Q.C. .250"	486-1013-ND‡	1.97	1.58	1.43	6110.3300
10	Snap-In 1.5mm	Solder .138"	486-1014-ND‡	1.97	1.58	1.43	6110.4115
11	Screw-On	Solder .150"	486-1015-ND†	2.08	1.67	1.50	4798.9200
		Q.C. .250"	486-1016-ND†	2.08	1.67	1.50	4798.9000
12	Snap-In 1.5mm	Q.C. .250"	486-1018-ND†	2.08	1.67	1.50	4793.4000
13	Rear Screw-On	Q.C. .250"	486-1080-ND†	30.77	24.62	22.16	C20F.0121
14	Screw-On	Solder .250"	486-1043-ND†	30.77	24.62	22.16	C20F.0001
15	Front Snap-In	Q.C. .250"	486-1081-ND†	30.77	24.62	22.16	C20F.0111
16	Screw-On	Solder .138"	486-1020-ND	2.29	1.83	1.65	6600.3100
		Q.C. .250"	486-1021-ND	2.29	1.83	1.65	6600.3300
17	Snap-In 1.5mm	Solder .138"	486-1022-ND	2.21	1.77	1.59	6600.4115
		Q.C. .250"	486-1023-ND	2.21	1.77	1.59	6600.4315
18	Rear Screw-On PCB	Solder .157"	486-1343-ND ***NEW!***	2.28	1.83	1.64	6182.0033
19	Screw-On	Q.C. .250"	486-1024-ND	3.40	2.72	2.45	4721.0000
		Solder .150"	486-1025-ND	3.40	2.72	2.45	4721.0300
20	Snap-In 1.5mm	Solder .150"	486-1026-ND	4.26	3.41	3.07	0909.0021
		Q.C. .187" Insulated	486-1027-ND	7.39	5.92	5.33	4752.4200

Fig.	Mounting	Terminal/ Pin Space	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
21	Snap-In 1.5mm	Solder/Q.C.	486-1028-ND	3.88	3.11	2.80	4300.0301
22	Screw-On	Q.C. .250"	486-1068-ND†	2.81	2.25	2.03	4797.0000
		Solder	486-1072-ND†	2.81	2.25	2.03	4797.3000
23	Front Snap-In	Q.C .250"	486-1105-ND†	2.81	2.25	2.03	4797.0015
24	Front Side Snap-In	Solder .138"	486-1082-ND	.95	.77	.69	4300.0701
25	Front Side Snap-In	Q.C. Sockets	486-1083-ND	1.22	.98	.89	4300.0703

Fig.	Mounting	Maximum Wire Size	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
			Power Entry Connectors				
26	Straight Entry	18 AWG	486-1048-ND	5.29	4.24	3.82	4782.0000
		14 AWG	486-1107-ND	5.29	4.24	3.82	4782.0100
27	Angled Entry	18 AWG	486-1049-ND	6.35	5.08	4.58	4785.0000
28	Straight Entry	18 AWG	486-1050-ND‡	4.76	3.81	3.43	4781.0000
29	Angled Entry	18 AWG	486-1051-ND‡	5.29	4.24	3.82	4784.0000
30	Straight Entry	18 AWG	486-1052-ND	7.41	5.93	5.34	4732.0000
31	Angled Entry	18 AWG	486-1053-ND	7.94	6.35	5.72	4733.0000
32	Straight Entry	14 AWG	486-1054-ND†	8.50	6.80	6.12	4795.0000
33	Angled Entry	14 AWG	486-1108-ND†	10.24	8.20	7.38	4789.1200
34	Straight Entry	14 AWG	486-1055-ND†	9.64	7.72	6.95	4796.0000
35	Angled Entry	14 AWG	486-1109-ND†	9.02	7.22	6.50	4790.1200

‡ High Temperature (120°C) † High Current (20A) Δ 3A Rated Current ▲ 10A Rated Current
§ Without Insulation Cover

Kit◊	Design	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
				Fig. 36 — Cord Retaining Strain Relief Kits				
A	Flat Head	8	45.5	486-1120-ND	4.36	3.49	3.15	4700.0001
B	Countersunk	9.5	45.5	486-1121-ND	4.36	3.49	3.15	4700.0002
C	Countersunk	8	45.5	486-1122-ND	4.36	3.49	3.15	4700.0003
D	Countersunk	4	40	486-1123-ND	4.36	3.49	3.15	4700.0004
E	Flat Head	4.5	40	486-1124-ND	4.36	3.49	3.15	4700.0005
F	Countersunk	4	45.5	486-1125-ND	4.36	3.49	3.15	4700.0006
G	Flat Head	4.5	45.5	486-1126-ND	4.36	3.49	3.15	4700.0007
H	Flat Head	5.5	45.5	486-1127-ND	4.36	3.49	3.15	4700.0008
J	Countersunk	8	37.5	486-1128-ND	4.36	3.49	3.15	4700.0009
K	Countersunk	6.6	37.5	486-1129-ND	4.36	3.49	3.15	4700.0010
L	Flat Head	5.5	37.5	486-1118-ND	4.36	3.49	3.15	4700.0011
M	Flat Head	5.5	40	486-1119-ND	4.36	3.49	3.15	4700.0012

◊ See Data Sheet on Digi-Key's website for Kit contents.

Power Entry Modules

Fig. 1

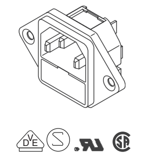

Fig. 2

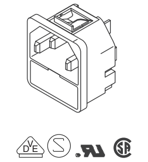

Fig. 3

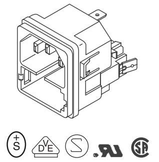

Fig. 4

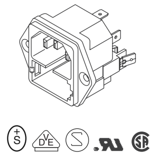

Fig. 5

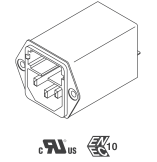

Fig. 6

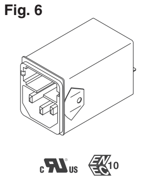

Fig. 7

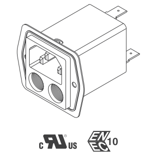

Fig. 8

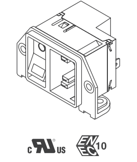

Fig. 9

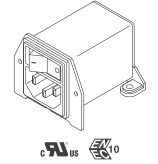

Fig. 10

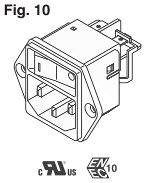

Fig. 11

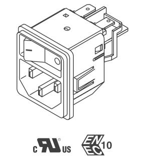

Fig. 12

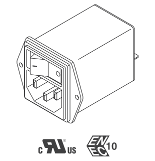

Fig. 13

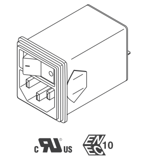

Fig. 14

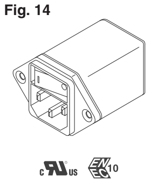

Fig. 15

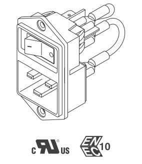

Fig. 16

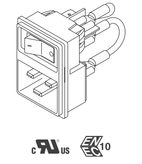

Fig. 17

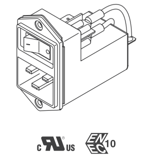

Fig. 18

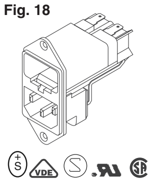

Fig. 19

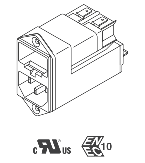

Fig. 20

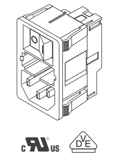

Fig. 21

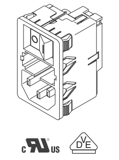

Fig. 22

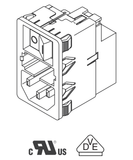

Fig. 23

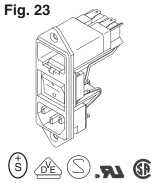

Fig. 24

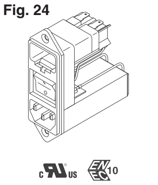

Fig. 25

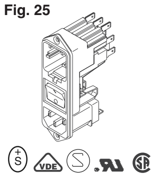

Fig. 26

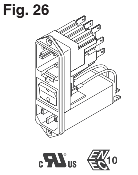

Fig. 27

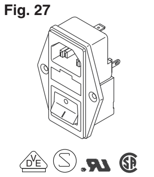

Fig. 28

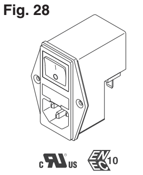

Fig. 29

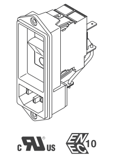

Fig. 30

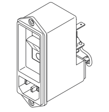

With illumination

Fig. 31

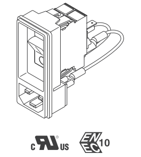

Fig. 32

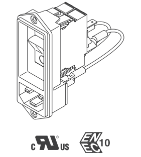

Fig. 33

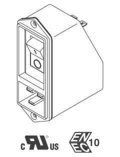

Fig. 34

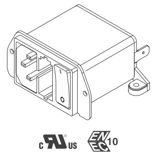

Fig. 35

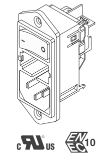

Fig. 36

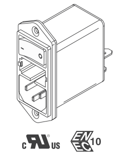

Fig.	Mounting	Terminal/ Pin Space	Digi-Key Part No.	Price Each	
				1	25
			Power Entry Modules		
1	Screw-On	Solder .138"	486-1031-ND†◊	3.78	3.03
		Q.C .187"	486-1086-ND†◊	3.78	3.03
		Q.C. .250"	486-1032-ND†◊	3.78	3.03
2	Snap-In	Solder .138"	486-1033-ND†◊	3.78	3.03
		Q.C. .187"	486-1087-ND†◊	3.78	3.03
		Q.C. .250"	486-1034-ND†◊	3.78	3.03
3	Snap-In	Q.C. .250"	486-1036-ND§	4.68	3.75
4	Front or Rear Screw-On	Q.C. .187"	486-1090-ND▲	5.91	4.73
		Q.C. .250"	486-1035-ND§	4.68	3.75
5	Rear Screw-On	Q.C. .250"	486-1075-ND§	25.02	20.02
	Front Screw-On	Q.C. .250"	486-1089-ND§	25.02	20.02
6	Front Snap-In	Q.C. .250"	486-1088-ND§	25.02	20.02
7	Front Screw-On	Q.C. .250"	486-1262-ND†◊	27.76	22.21
		Q.C. .250"	486-1264-ND◊	29.42	23.54
		Q.C. .250"	486-1266-ND◊	35.30	28.24
		Q.C. .250"	486-1268-ND†◊	27.76	22.21
		Q.C. .250"	486-1270-ND◊	29.42	23.54
		Q.C. .250"	486-1272-ND◊	35.30	28.24
	Rear Screw-On	Q.C. .250"	486-1263-ND†◊	27.76	22.21
		Q.C. .250"	486-1265-ND◊	29.42	23.54
		Q.C. .250"	486-1267-ND◊	35.30	28.24
		Q.C. .250"	486-1269-ND†◊	27.76	22.21
		Q.C. .250"	486-1271-ND◊	29.42	23.54
		Q.C. .250"	486-1273-ND◊	35.30	28.24
8	Screw-On	Q.C. .187"	486-1305-ND†▼	14.16	11.33
		Q.C. .187"	486-1306-ND†▼	16.28	13.03
		Q.C. .187"	486-1307-ND†▼	16.28	13.03
		Q.C. .187"	486-1308-ND§	22.35	17.89
		Q.C. .187"	486-1309-ND§	25.71	20.57
		Q.C. .187"	486-1310-ND§	25.71	20.57
	Rear Screw-On	PCB	486-1076-ND	12.31	9.85
9	Rear Screw-On	PCB	486-1077-ND	34.40	27.52
10	Screw-On	Q.C. .187"	486-1073-ND	9.72	7.78
11	Front Snap-In	Q.C. .187"	486-1091-ND	9.72	7.78
12	Rear Screw-On	Q.C. .250"	486-1078-ND	34.99	28.00
13	Front Snap-In	Q.C. .250"	486-1079-ND	32.92	26.34
14	Front Screw-On	Q.C. .250"	486-1074-ND	32.92	26.34
15	Screw-On	Q.C. .250"	486-1101-ND✻	18.10	14.49
16	Front Snap-In	Q.C. .250"	486-1102-ND✻	18.10	14.49
17	Front Screw-On	Q.C. .250"	486-1100-ND✻	58.18	46.54
18	Screw-On	Q.C. .187"	486-1041-ND‡	5.98	4.79
19	Front Screw-On	Q.C. .187"	486-1110-ND‡	34.29	27.43
20	Front Snap-In	Q.C. .187"	486-1092-ND§	15.95	12.76
21	Front Snap-In	Q.C. .187"	486-1093-ND§	18.23	14.58
22	Front Snap-In	Q.C. .187"	486-1094-ND§	28.90	23.12
23	Screw-On	Q.C. .187"	486-1046-ND‡	20.12	16.10
		Q.C. .187"	486-1095-NDΔ	21.37	17.10
24	Front Screw-On	Q.C. .187"	486-1047-ND‡	49.36	39.49
		Q.C. .187"	486-1115-ND‡	49.36	39.49
25	Screw-On	Q.C. .187"	486-1096-ND★•	22.83	18.26
26	Front Screw-On	Q.C. .187"	486-1116-ND★•	68.59	54.87
27	Screw-On	Q.C. .187"	486-1084-ND	10.01	8.01
28	Front Screw-On	Q.C. .250"	486-1085-ND◊	71.98	57.59
29	Screw-On	Q.C. .250"	486-1097-ND	29.73	23.79
30	Front Screw-On	Q.C. .250"	486-1098-ND	62.28	49.82
31	Front Snap-In	Q.C. .250"	486-1103-ND✻	28.42	22.74
32	Screw-On	Q.C. .250"	486-1104-ND†✻	24.88	19.90
33	Front Screw-On	Q.C. .250"	486-1099-ND✻	64.62	51.70
34	Screw-On	Q.C. .250"	486-1311-ND†▼	33.40	26.73
		Q.C. .250"	486-1312-ND§	34.00	27.20
		Q.C. .250"	486-1313-ND§	38.22	30.58
		Q.C. .250"	486-1314-ND†▼	33.40	26.73
		Q.C. .250"	486-1315-ND§	34.00	27.20
		Q.C. .250"	486-1316-ND§	38.22	30.58
		Q.C. .250"	486-1317-ND†▼	33.40	26.73
		Q.C. .250"	486-1318-ND§	34.00	27.20
34	Screw-On	Q.C. .250"	486-1319-ND§	38.22	30.58
		Q.C. .250"	486-1320-ND†▼	33.40	26.73
		Q.C. .250"	486-1321-ND§	34.00	27.20
		Q.C. .250"	486-1322-ND§	38.22	30.58
		Q.C. .250"	486-1323-ND†▼	33.40	26.73
		Q.C. .250"	486-1324-ND§	34.00	27.20
		Q.C. .250"	486-1325-ND§	38.22	30.58
35	Screw-On	Q.C. .187"	486-1275-ND†▼	10.65	8.52
		Q.C. .187"	486-1276-ND†▼	11.21	8.97
		Q.C. .187"	486-1277-ND†▼	12.26	9.81
		Q.C. .187"	486-1278-ND†▼	12.90	10.32
		Q.C. .187"	486-1279-ND†▼	12.26	9.81
		Q.C. .187"	486-1280-ND†▼	12.90	10.32
		Q.C. .187"	486-1281-ND§	16.81	13.45
		Q.C. .187"	486-1282-ND§	17.70	14.16
		Q.C. .187"	486-1283-ND§	19.35	15.48
		Q.C. .187"	486-1284-ND§	20.37	16.30
		Q.C. .187"	486-1285-ND§	19.35	15.48
		Q.C. .187"	486-1286-ND§	20.37	16.30
36	Screw-On	Q.C. .250"	486-1287-ND†▼	26.52	21.22
		Q.C. .250"	486-1288-ND§	27.00	21.60
		Q.C. .250"	486-1289-ND§	30.36	24.29
		Q.C. .250"	486-1290-ND†▼	26.52	21.22
		Q.C. .250"	486-1291-ND§	27.00	21.60
		Q.C. .250"	486-1292-ND§	30.36	24.29
		Q.C. .250"	486-1293-ND†▼	26.52	21.22
		Q.C. .250"	486-1294-ND§	27.00	21.60
		Q.C. .250"	486-1295-ND§	30.36	24.29
		Q.C. .250"	486-1296-ND†▼	26.52	21.22
		Q.C. .250"	486-1297-ND§	27.00	21.60
		Q.C. .250"	486-1298-ND§	30.36	24.29
		Q.C. .250"	486-1299-ND†▼	26.52	21.22
		Q.C. .250"	486-1300-ND§	27.00	21.60
		Q.C. .250"	486-1301-ND§	30.36	24.29
		Q.C. .250"	486-1302-ND†▼	26.52	21.22
		Q.C. .250"	486-1303-ND§	27.00	21.60
		Q.C. .250"	486-1304-ND§	30.36	24.29

Mounting Style	Fuseholder	Digi-Key Part No.	Price Each		
			1	25	50
		Fuse Drawer for Modules			
Fingergrip	2-Pole	486-1042-ND	3.47	2.78	2.50
	2-Pole	486-1111-ND	6.14	4.92	4.43
	2-Pole	486-1037-ND	3.46	2.77	2.50
	2-Pole	486-1112-ND	5.89	4.72	4.25
Extra-Safe	1-Pole	486-1342-ND	2.01	1.61	1.45
	2-Pole	486-1274-ND	3.46	2.77	2.50
	2-Pole	486-1114-ND	5.54	4.43	3.99
Voltage Selector Insert		486-1113-ND	6.90	5.52	4.97

† One-Pole
✻ High Current
◊ Comes with Fusedrawer
§ Fuse Drawer (486-1037-ND) or (486-1274-ND) available for this part, sold separately.
‡ Fuse Drawer (486-1042-ND) available for this part, sold separately.
Δ Fuse Drawer with voltage selector (486-1111-ND) available for this part, sold separately.
▲ Fuse Drawer with voltage selector (486-1112-ND) available for this part, sold separately.
★ Voltage Selector Insert (486-1113-ND) available for this part, sold separately.
• Fuse Drawer (486-1114-ND) available for this part, sold separately.
▼ Fuse Drawer (486-1342-ND) available for this part, sold separately.

All parts are Two-Pole unless otherwise noted

Note*: Fuse drawers accept two 5X20 mm fuses unless otherwise noted. 6.3X32mm fuse drawers are optional for Fig's 14, 19, 23, 24, 25 and 26. All filters are rated at 10A, other rated current versions are available.*

Corcom **Power Entry Modules**

C Series: The C series is a two-function power entry module combining a DPST switch and an IEC 320 power line connector.

GG Series: The GG series power entry modules combine the functions of a general purpose RFI filter with IEC power cord connector and single or dual metric fusing, in the smallest possible panel space.

HG Series: A medical version of our GG series, these filters offer the same compact design but reduce the line-to-ground capacitance in order to meet UL2601 patient care requirements.

P Series: This series of power entry modules offers full flexibility of design in the most compact package. As the first 10 Amp module to provide all five power entry functions in one compact design, the "Chameleon" readily adapts to its environment and the needs of international markets. • Snap-in or flange mounting • IEC power line connector • Both North American and European fusing capabilities • Two voltage selection • Optional DPST on/off switch • Filtering options for general purpose, high performance and medical applications.

J Series: The most widely accepted of all the power entry modules, the J series combines an IEC connector, 2 voltage, or 4 voltage selection, and a North American fuse holder.

L Series: The L series power entry modules are compact units that combine a multi-function power entry module and high performance RFI filtering capabilities. They are available with either a four voltage selector or a DPST on/off switch.

LA Series: A multi-function power entry connector with a choice of filtering capabilities. The series features an IEC line connector, selectable North American or dual European fusing capabilities, DPST on/off switch and 120/240 voltage selection. The filtered LA units provide a one piece solution to all power entry needs and provide a filtering solution for almost any RFI problem. Their vertical design is flange mounted and will meet requirements for worldwide markets.

M Series: This series of power entry modules offers the most choices of power entry components and filtering options to fit a specific need.

SR Series: The SR series includes a full line of popular AC receptacles. These male and female power line connectors include snap-in and flange mounted models. All have complete safety agency approvals for worldwide usage.

Part Numbering System for P Series (Figure 5A & 5B)

P	Mounting Style	Extender Options	Switch Options	Voltage Select	Fuse Options	Filter Type	Filter Current	Shield Options
	E = Mtg. Ears (horiz.) S = Snap-in M = Mtg. Ears (Vertical)	0 = None C = FN260 J = J Series L = L Series	0 = Blank S = DPST	0 = Single voltage S = Dual voltage select (SMPS) X = Dual voltage select (series/parallel)	D = Dual fuse S = Single fuse	0 = No filter B = Intercon. block H = Medical Filter S = Gen. purpose L = High Performance Med. Z = High Performance	0 = No filter 3 = 3 amps 6 = 6 amps X = 10 amps	0 = No shield A = Filter shield B = Complete shield C = Complete Can (for L & Z models)

Fig.	Rated Current 120V (Amps)	Termination	Dimensions in mm A	B	C	D	E	F	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
			C Series — Switch with IEC Connector — RoHS Compliant										
1	3	Faston, Straight	31.24	64.26	41.17	—	—	—	CCM1690-ND	28.02	19.59	16.36	3CFS1
	6		31.24	64.26	41.17	—	—	—	CCM1699-ND	26.15	18.31	15.27	6CFS1
	10		31.24	24.64	41.17	—	—	—	CCM1647-ND◊	9.44	6.62	5.52	10CS1
	10		31.24	64.26	41.17	—	—	—	CCM1668-ND	29.04	20.30	16.96	10CFS1
2	10	Faston, Straight	44.2	24.64	41.17	26.92	—	36.0	CCM1666-ND◊	9.44	6.62	5.52	10CE1
	3		44.2	64.26	41.17	28.5	—	36.0	CCM1689-ND	28.02	19.59	16.36	3CFE1
	6		44.2	64.26	41.17	28.5	—	36.0	CCM1698-ND	27.42	19.20	16.02	6CFE1
	10		44.2	64.26	41.17	28.5	—	36.0	CCM1667-ND	29.77	20.82	17.39	10CFE1
			GG Series — Power Entry Modules With Fuse holders — RoHS Compliant										
3	1	Faston, Straight	54.5	28.7	32.8	36.0	44.7	—	CCM1681-ND§	19.00	13.30	11.10	1EGG1-1
	3		54.5	28.7	32.8	36.0	44.7	—	CCM1692-ND§	17.66	12.36	10.33	3EGG1-1
	3		54.5	28.7	32.8	36.0	44.7	—	CCM1693-ND†	21.03	14.72	12.29	3EGG1-2
	6		54.5	28.7	32.8	36.0	44.7	—	CCM1620-ND§	16.68	11.66	9.75	6EGG1-1
	6		54.5	28.7	32.8	36.0	44.7	—	CCM1650-ND†	20.33	14.22	11.88	6EGG1-2
	6	Wire Lead	51.1	28.7	32.8	36.0	44.7	—	CCM1756-ND§	23.44	16.39	13.68	6EGG8-1
4	3	Faston, Straight	54.0	28.7	32.5	36.0	36.1	—	CCM1790-ND†	20.37	14.24	11.89	3EGS1-2
	3		54.0	28.7	32.5	36.0	36.1	—	CCM1791-ND§	17.14	11.99	10.02	3EGS1-1
	6		54.0	28.7	32.5	36.0	36.1	—	CCM1792-ND§	16.55	11.58	9.68	6EGS1-1
	6		54.0	28.7	32.5	36.0	36.1	—	CCM1705-ND†	20.19	14.14	11.81	6EGS1-2
			HG Series — Power Entry Modules With Fuse holders — RoHS Compliant										
3	3	Faston, Straight	54.5	28.7	32.8	36.0	44.7	—	CCM1694-ND†	19.29	13.51	11.28	3EHG1-2
	6		54.5	28.7	32.8	36.0	44.7	—	CCM1707-ND†	18.35	12.83	10.73	6EHG1-2
			P Series, Chameleon — For General, High Performance or Medical Applications — RoHS Compliant (See chart for part number break down)										
5A	3	Faston	31.49	54.1	58.67	26.93	55.91	—	CCM1719-ND	28.95	20.24	16.91	PS0S0DH3B
	3		31.49	54.1	58.67	26.93	55.91	—	CCM1759-ND	30.08	21.03	17.56	PS0S0DS3B
	3		31.49	54.1	58.67	26.93	55.91	—	CCM1722-ND	28.47	19.90	16.62	PS0S0SS3A
	3		31.49	54.1	58.67	26.93	55.91	—	CCM1723-ND	30.08	21.03	17.56	PS0S0SS3B
	3		31.49	54.1	58.67	26.93	55.91	—	CCM1377-ND	24.68	17.26	14.41	PS0SXSS30
	3	Faston	31.49	54.1	58.67	26.93	55.91	—	CCM1376-ND	25.18	17.61	14.71	PS000SS3B
	6		31.49	54.1	58.67	26.93	55.91	—	CCM1724-ND	27.93	19.53	16.32	PS0SXSS6A
	6		31.49	54.1	58.67	26.93	55.91	—	CCM1382-ND	28.15	19.68	16.44	PS0S0SS6A
	6		31.49	54.1	58.67	26.93	55.91	—	CCM1753-ND	25.64	17.93	14.98	PS0SSDS60
	6		31.49	54.1	58.67	26.93	55.91	—	CCM1720-ND	29.43	20.58	17.18	PS0S0DS6B
	6	Faston	31.49	54.1	58.67	26.93	55.91	—	CCM1378-ND	25.64	17.93	14.98	PS0SXSS60
	6		31.49	54.1	58.67	26.93	55.91	—	CCM1381-ND	25.64	17.93	14.98	PS0SXDS60
	6		31.49	54.1	58.67	26.93	55.91	—	CCM1600-ND	25.64	17.93	14.98	PS0S0SS60
	10		31.49	49.02	58.67	26.93	55.91	—	CCM1372-ND◊	17.81	12.45	10.40	PS0SXS000
	10		31.49	49.02	58.67	26.93	55.91	—	CCM1373-ND◊	13.90	9.72	8.13	PS000S000
	10	Faston	31.49	54.1	58.67	26.93	55.91	—	CCM1374-ND	21.26	14.87	12.43	PS0S0SBX0
	10		31.49	54.1	58.67	26.93	55.91	—	CCM1379-ND	30.08	21.04	17.56	PS0S0SSXA
	10		31.49	49.02	58.67	26.93	55.91	—	CCM1733-ND◊	17.96	12.56	10.51	PS0SXD000
	10		31.49	54.1	58.67	26.93	55.91	—	CCM1735-ND	31.05	21.71	18.15	PS0S0SSXB
	10		31.49	54.1	58.67	26.93	55.91	—	CCM1721-ND	32.02	22.39	18.71	PS0S0DSXB
	10	Faston	31.49	54.1	58.67	26.93	55.91	—	CCM1750-ND	28.14	19.68	16.43	PS0S0DHX0
	10		31.49	49.02	58.67	26.93	55.91	—	CCM1718-ND◊	17.81	12.45	10.40	PS0S0D000
	10		31.49	54.1	58.67	26.93	55.91	—	CCM1789-ND	24.38	17.04	14.23	PS000SSX0
	10		31.49	54.1	58.67	26.93	55.91	—	CCM1380-ND	28.10	19.63	16.41	PS000SSXB
5B	3	Faston	50.29	54.1	58.67	28.5	55.91	40.00	CCM1385-ND	25.84	18.07	15.09	PE0S0SS30
	6		50.29	54.1	58.67	28.5	55.91	40.00	CCM1383-ND	26.83	18.76	15.67	PE0SSSS60
	6		50.29	54.1	58.67	28.5	55.91	40.00	CCM1760-ND	32.68	22.86	19.09	PE0S0DH6B
	10		50.29	49.02	58.67	28.5	55.91	40.00	CCM1375-ND◊	18.97	13.26	11.08	PE0SSS000
	10		50.29	54.1	58.67	28.5	55.91	40.00	CCM1384-ND	28.77	20.12	16.80	PE0SSSSX0
	10		31.49	54.1	58.67	26.93	55.91	—	CCM1822-ND◊	17.32	12.11	10.12	PS0S0S000
Cable Assembly for P Series 4 Position with 6" wire									CCM1664-ND	2.83	2.56	—	PA100

Fig.	Rated Current 120V (Amps)	RFI Filter Type	Available Voltage Selection Position	DPST On/Off Switch	Dimensions in mm A	B	C	D	E	F	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
					J Series — Power Entry Modules — RoHS Compliant										
6	6	Unfiltered	4	—	68.07	38.61	29.72	31.24	—	—	CCM1200-ND	21.92	15.33	12.79	6VJ1
	6	Gen. Purpose	4	—	69.85	47.50	29.73	40.13	—	—	CCM1201-ND	38.64	27.01	22.55	6J4
					L Series — Power Entry Modules with RFI Power Line Filter										
5A	2	Gen. Purpose	1	Yes	32.51	51.05	58.42	28.19	54.36	—	CCM1108-ND	47.20	33.02	27.56	2EDL1SC
	4	Gen. Purpose	1	Yes	32.51	51.05	58.42	28.19	54.36	—	CCM1112-ND◆	45.21	31.63	26.40	4EDL1SC
	2	Gen. Purpose	1	Yes	32.51	51.05	58.42	28.19	54.36	—	CCM1051-ND◆	50.43	35.27	29.45	2EDL1SCM
	4	Gen. Purpose	1	Yes	32.51	51.05	58.42	28.19	54.36	—	CCM1055-ND◆	46.70	32.66	27.27	4EDL1SCM
	6	Gen. Purpose	1	Yes	32.51	51.05	58.42	28.19	54.36	—	CCM1059-ND◆	46.70	32.66	27.27	6EDL1SCM
	6	Gen. Purpose	4	No	32.51	51.05	58.42	28.19	54.36	—	CCM1061-ND◆	46.70	32.66	27.27	6EDL4CM
	6	Medical	4	No	32.51	51.05	58.42	28.19	54.36	—	CCM1065-ND◆	46.70	32.66	27.27	6EHL4CM
5B	2	Gen. Purpose	1	Yes	50.29	51.05	58.42	28.19	54.36	40.0	CCM1107-ND◆	44.92	31.40	26.24	2EDL1S
	4	Gen. Purpose	1	Yes	50.29	51.05	58.42	28.19	54.36	40.0	CCM1111-ND◆	44.92	31.40	26.24	4EDL1S
	6	Gen. Purpose	1	Yes	50.29	51.05	58.42	28.19	54.36	40.0	CCM1115-ND◆	44.92	31.40	26.24	6EDL1S
	6	Gen. Purpose	4	No	50.29	51.05	58.42	28.19	54.36	40.0	CCM1117-ND◆	44.92	31.40	26.24	6EDL4

◆ ***RoHS Compliant*** ◊ Unfiltered § (-1 Models) Utilizes 1 5x20 fuse † (-2 Models) Utilizes 2 5x20 fuses

(Continued)

Fig. 1

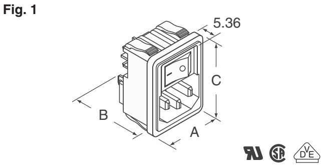

Fig. 2

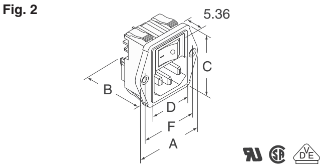

Fig. 3

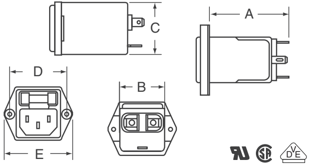

Fig. 4

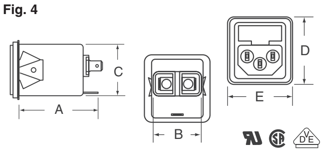

Fig. 5 ***P Series — See chart for part number break down***

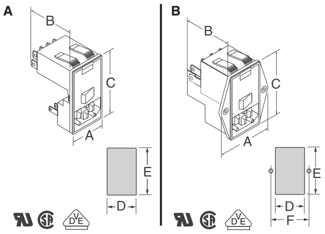

Fig. 6

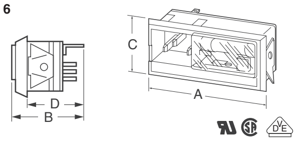

Fig. 7

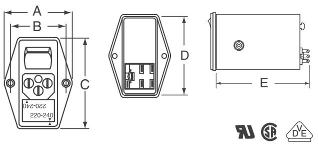

Power Entry Modules *(Cont.)*

Fig.	Rated Current 120V (Amps)	RFI Filter Type	Available Voltage Selection Position	DPST On/Off Switch	Dimensions in mm						Digi-Key Part No.	Price Each			Corcom Part No.
					A	B	C	D	E	F		1	25	100	
5B	6	Medical	1	Yes	50.29	51.05	58.42	28.19	54.36	40.0	CCM1119-ND◆	44.92	31.40	26.24	6EHL1S
	6	Medical	1	Yes	50.29	51.05	58.42	28.19	54.36	40.0	CCM1062-ND◆	47.03	32.88	27.45	6EHL1SM
	6	Medical	4	No	50.29	51.05	58.42	28.19	54.36	40.0	CCM1064-ND◆	49.38	34.53	28.82	6EHL4M
Fuse holder for 5 X 20mm L Series											CCM1662-ND◆	1.19	1.07	—	LA201
LA Series — Multi-Function Power Entry Modules — RoHS Compliant															
7	5	Gen. Purpose	2	Yes	50.5	39.9	65.79	61.21	68.07	—	CCM1614-ND	73.17	51.16	42.74	5EFLA2S
	3	Premium	2	Yes	50.5	39.9	65.79	61.21	105.7	—	CCM1731-ND	94.16	65.84	54.97	3EZLA2S
M Series — Power Entry Modules — RoHS Compliant															
8A	6	Unfiltered	1	No	86.1	72.1	29.0	62.0	36.8	—	CCM1000-ND	20.06	14.03	11.71	6VM1
8B	6	Unfiltered	2	No	98.6	84.3	29.0	74.2	36.8	—	CCM1002-ND	23.89	16.71	13.95	6VM2
8B	6	Unfiltered	4	No	98.6	84.3	29.0	74.2	36.8	—	CCM1004-ND	24.22	16.93	14.14	6VM4
9A	6	Unfiltered	1	Yes	105.9	91.9	29.0	81.8	36.8	—	CCM1001-ND	24.33	17.01	14.19	6VM1S
9B	6	Unfiltered	2	Yes	118.1	104.1	29.0	94.5	36.8	—	CCM1003-ND	28.38	19.84	16.58	6VM2S
9B	6	Unfiltered	4	Yes	118.1	104.1	29.0	94.5	36.8	—	CCM1005-ND	28.38	19.84	16.58	6VM4S
9C	5	Medical	1	Yes	105.9	91.9	29.0	81.8	55.6	—	CCM1011-ND	36.07	25.22	21.06	5EHM1S
9D	5	Medical	4	Yes	118.1	104.1	29.0	74.2	55.6	—	CCM1013-ND	40.08	28.03	23.39	5EHM4S
9C	5	Gen. Purpose	1	Yes	105.9	91.9	29.0	81.8	55.6	—	CCM1021-ND	35.47	24.81	20.73	5EFM1S
9D	5	Gen. Purpose	4	Yes	118.1	104.1	29.0	74.2	55.6	—	CCM1023-ND	39.53	27.65	23.09	5EFM4S
8C	5	Medical	1	No	86.1	72.1	29.0	62.0	55.6	—	CCM1010-ND	31.90	22.31	18.63	5EHM1
9D	5	Medical	4	No	98.6	84.3	29.0	74.2	55.6	—	CCM1012-ND	35.01	24.47	20.43	5EHM4
8C	5	Gen. Purpose	1	No	86.1	72.1	29.0	62.0	55.6	—	CCM1020-ND	30.40	21.27	17.77	5EFM1
8D	5	Gen. Purpose	4	No	98.6	84.3	29.0	74.2	55.6	—	CCM1022-ND	36.19	25.29	21.14	5EFM4
10	3	Premium	4	Yes	118.1	104.1	29.0	94.5	43.7	78.49	CCM1033-ND	70.25	49.12	41.03	3EZM4S
Connector Plug for M Series											CCM1665-ND	.72	.65	—	MA101
Insulating Boot for VM/EFM Models fits M4S Versions											CCM1663-ND	3.21	2.90	—	MA601
Insulating Boot for VM/EFM Models fits M1S Versions											CCM1725-ND	3.20	2.90	—	MA602
Insulating Boot for VM/EFM Models fits M4 Versions											CCM1818-ND	3.20	2.90	2.53	MA603

Fig.	Rated Current 125V (Amps)	Output Terminals	Mounting Style	Input Config.	Dimensions in mm				Digi-Key Part No.	Price Each			Corcom Part No.
					A	B	C	D		1	25	100	
SR Series — AC Connector — RoHS Compliant													
11	15	PC Terminals	Flange	Male	50.01	40.01	28.19	26.70	CCM1400-ND	3.47	2.44	2.04	6ESRM-P
	15	Quick Disconnect	Flange	Male	50.22	40.01	22.76	31.09	CCM1401-ND	2.59	1.80	1.52	6ESRM-3
	15	Quick Disconnect	Snap-In	Male	30.40	—	22.66	30.61	CCM1402-ND	2.74	1.90	1.59	6ESRMC2
	15	Quick Disconnect	Snap-In	Female	35.31	—	28.19	35.71	CCM1403-ND	3.17	2.20	1.83	6ESRFC3
	15	Quick Disconnect	Flange	Female	50.01	40.01	29.31	35.71	CCM1404-ND	3.17	2.20	1.83	6ESRF-3

◆ ***RoHS Compliant*** ◊ Unfiltered § (-1 Models) Utilizes 1 5x20 fuse † (-2 Models) Utilizes 2 5x20 fuses

Fig. 8

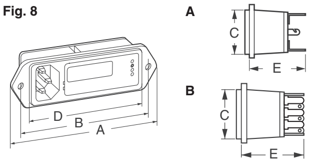

Fig. 9

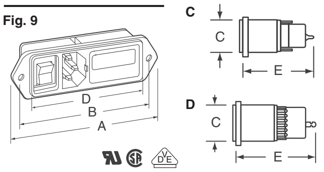

Fig. 10

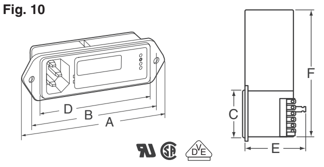

Fig. 11

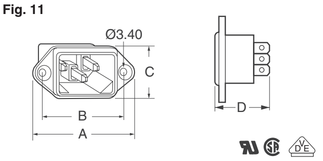

RF Line Filters

3 Phase RFI Filters

A Series: The 3-phase filters are designed for 3-phase, four wire, WYE applications providing filtering in each of the three lines plus the neutral and ground line.

AYO Series: The AYO series filters are designed for 3-phase, four wire, WYE applications providing filtering in each of the three lines plus neutral. These lower current RFI filters provide filtering to industrial 3-phase applications.

Fig.	Rated Current 120V (Amps)	Termination	Dimensions in mm					Digi-Key Part No.	Price Each			Corcom Part No.
			A	B	C	D	E		1	25	100	
A Series — High Performance 3-Phase RFI Line Filter												
1	30	Single Stage Stud	224.0	141.5	65.0	117.2	38.1	CCM1727-ND	256.79	233.78	197.73	30AYP6C
	60	Single Stage Stud	239.5	175.8	122.4	151.1	95.3	CCM1736-ND	349.12	317.70	268.74	60AYP6C
	60	Dual Stage Stud	351.3	175.8	122.4	151.1	95.3	CCM1730-ND	507.56	461.84	390.85	60AYT6C
AYO Series — Lower Current 3-Phase RFI Filter												
2	20	Faston	85.6	52.5	38.7	74.63	—	CCM1684-ND	50.24	35.15	29.34	20AYO1

Fig. 1

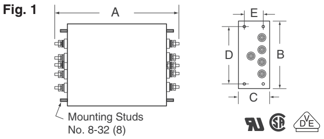

Fig. 2

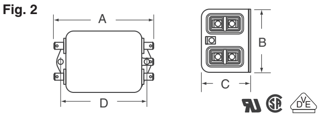

General Purpose RFI Filters

B Series: These general purpose common-mode RFI power line filters effectively provide RFI control of line-to-ground noise in a small size at a low cost.

DK Series: The DK series RFI power line filters are general purpose common mode and differential mode filters with higher performance line-to-line attenuation than the VK series.

EMC Series: The EMC series of RFI filters has been developed to reduce conducted noise to acceptable limits for equipment that must comply with the requirements of CISPR in Europe and the FCC specifications in the USA. The EMC series was designed to address the need for more differential mode attenuation in the lower frequency range while still maintaining high common mode performance. This type of performance is typically needed for motor drives and switch mode power supplies with increased operating frequencies.

EP/VP Series: The EP/VP series of RFI filters has been developed to reduce conducted noise to acceptable limits for equipment that must comply with requirements of CISPAR in Europe and the FCC specifications in the USA.

FC Series: The FC filters provide filtering for frequency inverters and variable speed motor drives. Designed for very noisy applications, they attenuate conducted interference at low and high frequency ranges and protect programmable logic controllers from RF noise on the AC power line.

G Series: The G series RFI filters are designed to provide excellent common-mode and differential-mode attenuation for most digital electronic equipment (particularly switching power supplies) over the frequency range of 20kHz to 30MHz.

K Series: These power line filters are general purpose common-mode and differential-mode filters. They are effective in the control of line-to-line as well as line-to-ground RFI interference. They are particularly suited in applications where pulsed, continuous and/or intermittent RFI interference is present.

N Series: The N series RFI filters are designed to provide superior common-mode attenuation for most digital electronic equipment (particularly switching power supplies) over the frequency range of 10kHz to 30MHz.

Q Series: A series of RFI power line filters that has been developed specifically for switching power supplies and is designed to be all the power line filtering needed to control conducted emissions all the way down to 10kHz.

R Series: These dual T section RFI power line filters provide premium performance at a moderate cost. They are well suited for low impedance loads where noisy RFI environments are present. They control pulsed, continuous and/or intermittent interference, insuring protection of your equipment from line power noise in addition to protecting the line from equipment noise.

RK Series: The RK Series filters are compact, single stage, chassis mount filters that provide significant differential mode performance ideal for industrial machinery equipment. Low input leakage current makes this series suitable for portable equipment.

S Series: The S series of RFI power line filters combines successful line-to-ground interference rejection filters with additional circuitry designed to reduce line-to-line noise and transients.

SK Series: This series of RFI power line filters was designed to reduce conducted noise to acceptable limits for equipment that must comply with the FCC specifications in the USA and CISPAR specifications in Europe.

T Series: These RFI power line filters provide superior common-mode and premium differential-mode attenuation, exceeded only by that of Q series filters.

U Series: The U series was designed to meet the RFI needs created by power factor corrected power supplies. This high performance filter offers a high impedance circuit to mismatch the power supply's impedance characteristics.

V and W Series: These RFI power line filters will protect equipment from malfunctions due to conducted interference coming into the equipment from the line, especially line-to-line noise and transients. The W series has a two-stage construction that provides excellent suppression at high frequency.

Fig.	Rated Current 120V (Amps)	Termination	Dimension in mm					Digi-Key Part No.	Price Each			Corcom Part No.
			A	B	C	D	E		1	25	100	
B Series — RFI Power Line Filter for High Impedance Loads — RoHS Compliant												
1	1	Faston	57.2	46.2	16.8	53.98	64.3	CCM1300-ND	15.62	10.94	9.13	1VB1
	2		57.2	46.2	16.8	53.98	64.3	CCM1301-ND	14.07	9.82	8.21	2VB1
	3		66.3	46.2	19.8	53.98	64.3	CCM1302-ND	16.25	11.38	9.50	3VB1
	5		66.3	46.2	19.8	53.98	64.3	CCM1303-ND	15.05	10.54	8.79	5VB1
	10		66.3	46.2	29.5	53.98	64.3	CCM1304-ND	16.78	11.74	9.80	10VB1
	5	Faston	66.3	46.2	19.8	53.98	64.3	CCM1762-ND	16.99	11.88	9.94	5EB1
	20		85.3	52.6	29.5	60.33	71.4	CCM1634-ND	26.01	18.20	15.21	20EB1
	20		85.3	52.6	29.5	60.33	71.4	CCM1305-ND	25.78	18.03	15.06	20VB1

◆ ***RoHS Compliant***

(Continued)

Fig. 1

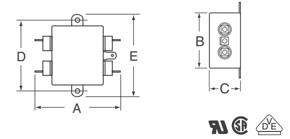

Fig. 2

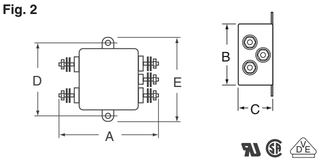

Fig. 3

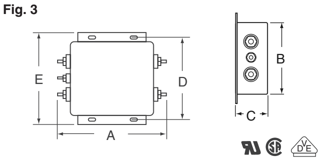

Fig. 4

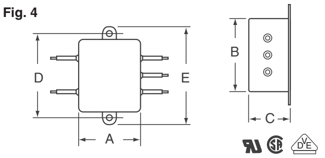

RF Line Filters
General Purpose RFI Filters *(Cont.)*

Fig.	Rated Current 120V (Amps)	Termination	Dimension in mm					Digi-Key	Price Each			Corcom
			A	B	C	D	E	Part No.	1	25	100	Part No.
2	10	Stud	69.1	46.2	29.5	53.98	64.3	CCM1320-ND	21.04	14.71	12.28	10VB6
	20		87.9	52.6	29.5	60.33	71.4	CCM1321-ND	30.66	21.45	17.92	20VB6
3	30	Stud	135.6	85.9	38.9	95.3	106.7	CCM1322-ND	58.54	40.94	34.18	30VB6
4	1	Wire Lead	24.4	46.2	16.8	53.98	64.3	CCM1310-ND	16.64	11.64	9.73	1VB3
	2		24.4	46.2	16.8	53.98	64.3	CCM1311-ND	15.15	10.59	8.86	2VB3
	3		33.5	46.2	19.8	53.98	64.3	CCM1312-ND	17.30	12.12	10.11	3VB3
	5		33.5	46.2	19.8	53.98	64.3	CCM1313-ND	15.92	11.13	9.31	5VB3
	10		33.5	46.2	29.5	53.98	64.3	CCM1314-ND	17.54	12.26	10.26	10VB3
DK Series — Enhanced Performance RFI Power Line Filters — RoHS Compliant												
5	20	Faston	97.8	65.5	45.2	74.63	85.1	CCM1686-ND	51.49	36.01	30.09	20VDK1
	20	Stud	87.9	65.5	45.2	74.63	85.1	CCM1748-ND	51.49	36.01	30.09	20VDK6
EMC Series — Compact Dual Stage RFI Filters — RoHS Compliant												
6	3	Faston	85.1	46.0	29.5	60.3	—	CCM1738-ND	23.28	16.27	13.60	3EMC1
	10		97.8	52.6	38.91	74.6	—	CCM1741-ND	24.59	17.19	14.36	10EMC1
EP/VP Series — Line Filter For Switching Power Supply Noise Suppression — RoHS Compliant												
6	3	Faston	97.8	52.6	45.2	74.63	—	CCM1619-ND	38.55	26.96	22.52	3EP1
	10		168.1	52.6	70.6	142.88	—	CCM1644-ND	87.30	61.05	50.98	10EP1
	20		125.7	57.7	45.7	103.2	—	CCM1685-ND	70.25	49.12	41.03	20EP1
7	10	Wire Lead	135.9	52.6	70.6	142.88	—	CCM1749-ND	87.30	61.05	50.98	10EP3
8	20	Stud	127.3	57.2	45.2	103.2	—	CCM1827-ND	75.44	52.75	44.05	20EP6
			127.3	57.2	45.2	103.2	—	CCM1765-ND	75.44	52.75	44.05	20VP6
FC Series — Single Phase External Power Line Filter for Frequency Converters — RoHS Compliant												
9	25	DIN Type	175.3	139.2	64.77	124.5	70.0	CCM1763-ND	159.17	111.32	92.94	25FC10
G Series — High Performance RFI Filter for Switching Power Supplies — RoHS Compliant												
10A	6	Faston	90.4	54.6	39.6	74.63	—	CCM1744-ND	47.62	33.30	27.83	6EG1
K Series — RFI Power Line Filters for High Impedance Load												
1	1	Faston	78.7	52.6	23.1	60.33	71.4	CCM1683-ND◆	20.89	14.62	12.20	1VK1
	2		78.7	52.6	23.1	60.33	71.4	CCM1627-ND◆	17.96	12.56	10.50	2VK1
	3		78.7	52.6	29.5	60.33	71.4	CCM1618-ND◆	21.34	14.95	12.49	3VK1
	5		78.7	52.6	29.5	60.33	71.4	CCM1613-ND◆	18.30	12.80	10.69	5VK1
	10		85.1	52.6	29.5	60.33	71.4	CCM1641-ND◆	19.31	13.51	11.29	10VK1
	20	Faston	85.1	65.0	38.9	74.63	85.1	CCM1632-ND◆	28.76	20.13	16.81	20VK1
	5		78.7	52.6	29.5	60.33	71.4	CCM1757-ND◆	20.53	14.36	12.00	5EK1
	20		85.1	65.0	38.9	74.63	85.1	CCM1633-ND◆	29.09	20.35	16.99	20EK1
2	20	Stud	87.9	65.0	38.9	74.63	85.1	CCM1631-ND◆	33.31	23.30	19.44	20VK6
	30		135.6	85.9	38.9	95.25	106.7	CCM1625-ND◆	62.41	43.64	36.45	30VK6
4	2	Wire Lead	46.0	52.6	23.1	60.33	71.4	CCM1626-ND◆	19.40	13.59	11.35	2VK3
	3		46.0	52.6	29.5	60.33	71.4	CCM1697-ND	22.04	15.42	12.89	3VK3
	5		46.0	52.6	29.5	60.33	71.4	CCM1612-ND	20.60	14.40	12.04	5VK3
	10		52.6	52.6	29.5	60.33	71.4	CCM1674-ND◆	20.32	14.20	11.86	10VK3
	10	Stud	87.9	52.6	29.5	60.33	71.4	CCM1820-ND◆	22.82	15.94	13.32	10VK6
N Series — High Performance Line Filter for Switching Power Supplies — RoHS Compliant												
10A	6	Faston	90.4	54.6	45.9	74.63	—	CCM1713-ND	57.68	40.33	33.69	6VN1
	10		119.1	57.7	45.7	103.2	—	CCM1649-ND	93.91	65.67	54.83	10VN1
Q Series — Line Filters For Switching Power Supply Emissions Down to 10kHz — RoHS Compliant												
6	3	Faston	97.8	52.6	45.2	74.63	—	CCM1651-ND	60.04	41.98	35.06	3EQ1
	6		126.5	57.7	45.7	103.2	—	CCM1605-ND	87.04	60.88	50.85	6EQ1
	20		168.1	52.6	57.9	142.9	—	CCM1726-ND	111.25	77.80	64.97	20EQ1
	3		97.8	52.6	45.2	74.63	—	CCM1728-ND	60.04	41.98	35.06	3VQ1
	20		168.1	52.6	57.9	142.9	—	CCM1687-ND	111.25	77.80	64.97	20VQ1
11	6	Wire Lead	93.7	57.7	45.7	103.2	113.5	CCM1739-ND	87.04	60.88	50.85	6EQ3
12	6	Wire Lead	138.9	52.6	45.2	40.01	68.0	CCM1751-ND	94.44	66.04	55.15	6EQ8
R Series — 2 Stage General Purpose Line Filter												
6	1	Faston	85.1	46.0	29.5	60.33	—	CCM1330-ND◆	28.52	19.97	16.65	1VR1
	2		85.1	46.0	29.5	60.33	—	CCM1331-ND◆	25.84	18.06	15.08	2VR1
	3		97.8	52.6	29.5	74.63	—	CCM1332-ND◆	27.70	19.37	16.17	3VR1
	5		97.8	52.6	29.5	74.63	—	CCM1333-ND	26.06	18.24	15.23	5VR1
	10		97.8	52.6	38.9	74.63	—	CCM1769-ND◆	31.48	22.02	18.39	10ER1
	10	Faston	97.8	52.6	38.9	74.63	—	CCM1334-ND◆	27.34	19.12	15.97	10VR1
	20		132.8	85.6	38.9	95.25	—	CCM1335-ND◆	66.31	46.36	38.74	20VR1
8	10	Stud	100.6	52.6	38.9	74.63	—	CCM1360-ND◆	32.42	22.66	18.92	10VR6
3	20	Stud	132.8	85.6	38.9	95.25	106.7	CCM1752-ND◆	66.31	46.36	38.74	20ER1
			132.8	85.6	38.9	95.25	106.7	CCM1361-ND◆	68.06	47.59	39.74	20VR6
10B	1	Wire Lead	52.6	46.0	29.5	60.33	—	CCM1340-ND◆	30.12	21.06	17.59	1VR3
7	2	Wire Lead	52.6	46.0	29.5	60.33	—	CCM1341-ND◆	28.53	19.96	16.65	2VR3
	3		65.0	52.6	29.5	74.63	—	CCM1342-ND◆	29.58	20.70	17.27	3VR3
	5		65.0	52.6	29.5	74.63	—	CCM1343-ND◆	28.77	20.13	16.82	5VR3
	10		65.0	52.6	38.9	74.63	—	CCM1344-ND◆	28.25	19.76	16.50	10VR3
13	5	Faston	110.0	57.2	32.5	40.01	16.3	CCM1351-ND◆	30.18	21.10	17.62	5VR7
NEW! RK Series — RoHS Compliant NEW!												
10C	10	Faston	97.8	25.4	45.2	74.63	—	CCM1845-ND	40.27	28.16	23.52	10ERK1
	15		97.8	25.4	45.2	74.63	—	CCM1846-ND	46.31	32.38	27.04	15ERK1
	20		97.8	25.4	45.2	74.63	—	CCM1847-ND	53.27	37.24	31.10	20ERK1
S Series — Line Filter For Emission Control — RoHS Compliant												
6	3	Faston	85.30	46.20	29.50	60.33	—	CCM1617-ND	33.96	23.74	19.82	3VS1
	6		98.00	52.80	38.90	74.63	—	CCM1603-ND	33.96	23.74	19.82	6VS1
	10		98.00	52.80	38.90	74.63	—	CCM1640-ND	39.95	27.94	23.33	10VS1
14	20	Faston	132.80	85.90	38.90	95.25	—	CCM1648-ND	88.33	61.75	51.57	20VS1
15	60	Faston	182.88	78.23	57.91	142.87	158.7	CCM1843-ND	144.86	101.30	84.59	60VS6
SK Series — High Performance RFI Line Filter for SMPS Emission Control — RoHS Compliant												
13	6	Faston	81.5	57.2	45.2	40.01	16.0	CCM1714-ND	51.08	35.75	29.83	6VSK7
	10		110.0	57.2	45.2	40.01	16.0	CCM1675-ND	58.68	41.03	34.25	10VSK7
6	3	Faston	97.8	52.6	29.5	74.63	—	CCM1823-ND	39.06	27.32	22.83	3VSK1
	6		110.2	57.2	32.5	87.05	—	CCM1709-ND	45.77	32.02	26.74	6ESK1
	6		110.2	57.2	32.5	87.05	—	CCM1732-ND	45.77	32.02	26.74	6VSK1
	10		126.2	57.2	45.2	103.2	—	CCM1729-ND	53.34	37.30	31.14	10VSK1
16	20	Stud	127.3	57.2	45.2	103.2	—	CCM1630-ND	64.31	44.97	37.56	20VSK6
	20		127.3	57.2	45.2	103.2	—	CCM1746-ND	64.31	44.97	37.56	20ESK6
	30		125.0	79.25	69.85	87.3	—	CCM1688-ND	77.32	54.08	45.16	30ESK6
	30		125.0	79.25	69.85	87.3	—	CCM1624-ND	77.32	54.08	45.16	30VSK6
3	40	Stud	152.4	79.25	55.4	88.9	—	CCM1615-ND	85.66	59.90	50.01	40VSK6
17	30	Stud	125.0	79.25	69.85	87.3	101.6	CCM1734-ND	97.79	68.40	57.11	30VSK6C

◆ *RoHS Compliant*

(Continued)

Fig. 5

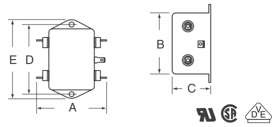

Fig. 6

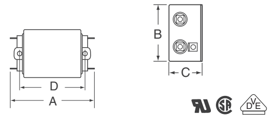

Fig. 7

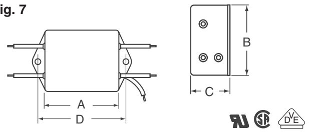

Fig. 8

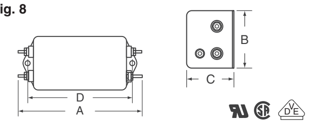

Fig. 9

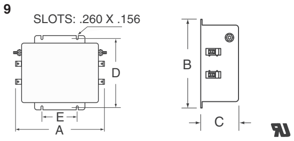

Fig. 10

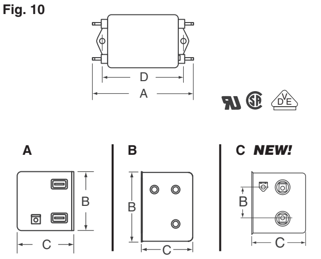

Fig. 11

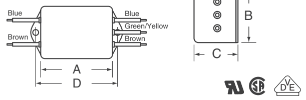

Fig. 12

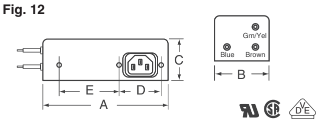

Fig. 13

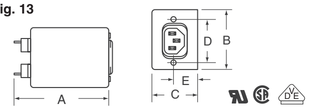

Fig. 14

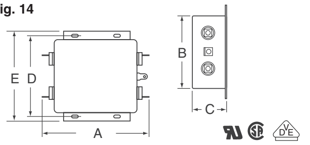

Fig. 15

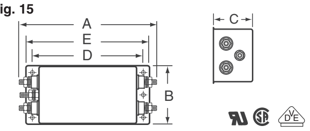

RF Line Filters

General Purpose RFI Filters *(Cont.)*

Fig.	Rated Current 120V (Amps)	Termination	Dimension in mm A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
T Series — High Performance Line Filter For Switching Power Supplies — RoHS Compliant												
11	6	Wire Lead	64.8	54.6	46.0	74.63	—	CCM1710-ND	52.09	36.43	30.42	6ET3
	10		93.7	57.7	45.7	103.2	—	CCM1754-ND	75.29	52.65	43.95	10ET3
13	6	Faston	89.4	57.2	45.2	40.01	16.0	CCM1711-ND	53.55	37.44	31.28	6ET7
6	6	Faston	90.4	54.6	46.0	74.63	—	CCM1604-ND	52.09	36.43	30.42	6ET1
	10		119.1	57.7	45.7	103.2	—	CCM1643-ND	69.21	48.39	40.41	10ET1
	10		119.1	57.7	45.7	103.2	—	CCM1639-ND	75.29	52.65	43.95	10VT1
18	15	Faston	138.4	79.2	55.4	88.9	—	CCM1635-ND	99.03	69.27	57.82	15ET1
	15		138.4	79.2	55.4	88.9	—	CCM1679-ND	99.03	69.27	57.82	15VT1
	20		138.4	79.2	55.4	88.9	—	CCM1764-ND	100.55	70.32	58.73	20VT1
3	15	Stud	151.1	79.2	55.4	88.9	100.6	CCM1678-ND	104.04	72.75	60.75	15ET6
U Series — For Power Factor Corrected Power Supplies — RoHS Compliant												
6	6.5	Faston	125.73	57.66	45.72	103.12	—	CCM1363-ND	71.33	49.88	41.65	6EU1
V Series — Line Filter For Emission Control — RoHS Compliant												
8	3	Faston	85.3	46.2	32.5	60.33	—	CCM1825-ND	38.34	26.81	22.39	3VV1
6	6	Faston	98.0	52.8	38.9	74.63	—	CCM1602-ND	38.34	26.81	22.39	6VV1
	10		98.0	52.8	38.9	74.63	—	CCM1638-ND	43.27	30.25	25.26	10VV1
14	20	Faston	132.8	85.9	38.9	95.25	106.7	CCM1629-ND	92.43	64.64	53.96	20VV1
W Series — Multipurpose Power Line for Emission Control and High Noise Industrial Environments — RoHS Compliant												
6	3	Faston	85.3	46.2	32.5	60.33	—	CCM1616-ND	40.39	28.23	23.58	3VW1
	6		98.0	52.8	38.9	74.63	—	CCM1601-ND	40.39	28.23	23.58	6VW1
	10		98.0	52.8	38.9	74.63	—	CCM1637-ND	46.34	32.40	27.06	10VW1
14	20	Faston	132.8	85.9	38.9	95.25	106.7	CCM1628-ND	94.47	66.06	55.17	20VW1
3	20	Stud	135.64	85.9	38.9	95.5	106.7	CCM1747-ND	94.84	66.32	55.38	20VW6

◆ ***RoHS Compliant***

Fig. 16

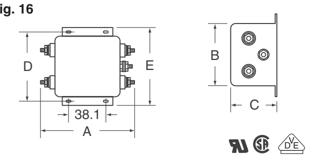

Fig. 17

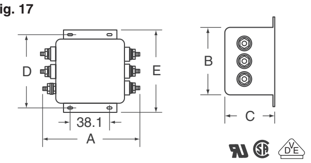

Fig. 18

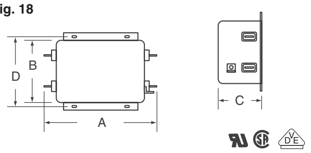

Medical Grade Filters

EAH Series: This is a new generation of compact medical RFI filters with an IEC socket. A new design in internal structure and manufacturing process makes the series cost effective. This health care series supersedes the H series by providing superior differential mode performance while still maintaining a maximum leakage current of 2 micro amps.

EBH Series: A compact medical RFI filter with IEC socket, the EBH series is a cost effective alternative to the H series. Electrically the EBH provides enhanced differential mode performance compared to both the EAH and the H series. These filters provide RFI common and differential modes performance while still allowing medical equipment to meet UL leakage current specifications for medical and dental equipment.

EJH Series: The 1-15 Amp versions are flange mounted and mechanically equivalent to the EAH/EBH series. The performance has been enhanced to meet the needs for more attenuation. It has an improved high frequency EMI shielding and larger contact area for the panel ground. These medical filters are designed to provide common and differential mode performance while maintaining the UL leakage requirements for medical and dental equipment. The EJH series also includes a 20 Amp version that uses the inlet IEC 320/C20.

H Series: The H series was developed specifically for health care applications. These products are suitable for uses in both patient care equipment and non-patient care equipment. Their extremely low leakage current allows compliance with UL2601 and CSA 22.2 health care specifications.

HT Series: This series of power line filters provides superior common-mode and premium differential-mode attenuation to RFI noise on the frequency range from 10kHz to 30MHz, for IEC60601 and UL2601 patient-connected equipment, as well as all other electronic equipment that cannot tolerate any leakage current.

HQ Series: The HQ series power line filters provide the highest available common-mode and differential-mode attenuation to RFI noise in the frequency range from 10kHz to 30MHz, for IEC 60601 and UL2601 patient-connected equipment, as well as all other electronic equipment that cannot tolerate any leakage current.

MV Series: This series answers the need for a medical filter to help equipment comply with increasing noise sources in medical applications while still meeting leakage current requirements of UL2601.

Fig.	Rated Current 120V (Amps)	Termination	Dimension in mm A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
EAH Series — For UL544 Health Care Equipment — RoHS Compliant												
1	6	Faston	54.61	28.45	22.86	40.01	50.29	CCM1700-ND	15.08	10.54	8.80	6EAH1
EBH Series — For UL544 Health Care Equipment — RoHS Compliant												
1	10	Faston	54.61	28.45	22.86	40.01	50.29	CCM1669-ND	19.67	13.76	11.50	10EBH1
EJH Series — Enhanced Performance Compact RFI Filter IEC Connector Package												
1	1	Straight	54.61	30.48	24.38	40.00	51.76	CCM1236-ND◆	11.70	8.17	6.84	1EJH1
	3		54.61	30.48	24.38	40.00	51.76	CCM1237-ND	10.83	7.60	6.35	3EJH1
	6		54.61	30.48	24.38	40.00	51.76	CCM1238-ND◆	10.15	7.09	5.93	6EJH1
	10		54.61	30.48	24.38	40.00	51.76	CCM1239-ND◆	10.83	7.60	6.35	10EJH1
	15		54.61	30.48	24.38	40.00	51.76	CCM1240-ND◆	10.32	7.22	6.02	15EJH1
2	20	Straight	79.38	34.79	29.99	42.01	53.00	CCM1241-ND◆	18.56	12.96	10.83	20EJH1
3	1	Right Angle	39.12	28.70	24.38	40.00	51.76	CCM1242-ND◆	11.97	8.38	6.99	1EJH2
	3		39.12	28.70	24.38	40.00	51.76	CCM1243-ND	9.60	6.72	5.61	3EJH2
	6		39.12	28.70	24.38	40.00	51.76	CCM1244-ND	9.51	6.64	5.56	6EJH2
	10		39.12	28.70	24.38	40.00	51.76	CCM1245-ND◆	10.24	7.16	5.98	10EJH2
	15		45.47	28.70	24.38	40.00	51.76	CCM1246-ND	10.41	7.28	6.08	15EJH2
4	1	PCB	39.12	28.70	24.38	40.00	51.76	CCM1247-ND◆	13.89	9.72	8.11	1EJHP
	3		39.12	28.70	24.38	40.00	51.76	CCM1248-ND	11.60	8.11	6.78	3EJHP
	6		39.12	28.70	24.38	40.00	51.76	CCM1249-ND◆	11.51	8.05	6.73	6EJHP
	10		39.12	28.70	24.38	40.00	51.76	CCM1250-ND	12.60	8.84	7.38	10EJHP
	15		45.47	28.70	24.38	40.00	51.76	CCM1251-ND◆	12.52	8.75	7.32	15EJHP
H Series — Line Filters for UL2601 Healthcare Equipment												
5	6	Faston, Straight	55.90	30.20	20.60	40.01	50.3	CCM1607-ND◆	18.79	13.16	10.99	6EH4
	10		66.5	30.2	20.6	40.01	50.3	CCM1671-ND◆	20.34	14.21	11.88	10EH4
6	3	Faston	57.2	46.1	16.7	53.98	64.2	CCM1758-ND◆	15.32	10.71	8.95	3EH1
	6		57.2	46.1	16.7	53.98	64.2	CCM1608-ND◆	15.50	10.84	9.06	6EH1
	10		57.2	46.1	16.7	53.98	64.2	CCM1670-ND	16.17	11.30	9.46	10EH1
7	6	Right Angle	39.4	30.2	21.6	40.01	50.3	CCM1706-ND◆	19.22	13.47	11.24	6EH9
HT Series — High Performance RFI Power Line Filter For Medical Equipment — RoHS Compliant												
8	6	Faston	90.4	54.6	46.0	74.63	—	CCM1606-ND	51.34	35.90	29.97	6EHT1
	10		119.1	57.7	45.7	103.2	—	CCM1672-ND	77.05	53.87	44.99	10EHT1
9	15	Faston	138.4	79.2	55.4	88.9	—	CCM1821-ND	103.84	72.62	60.64	15EHT1
HQ Series — Highest Performance RFI Filter For Medical Equipment												
8	3	Faston	97.8	52.6	45.2	74.63	—	CCM1695-ND◆	60.82	42.54	35.54	3EHQ1
10	3	Wire Lead	84.8	52.6	45.2	74.63	—	CCM1826-ND◆	59.34	41.50	34.67	3EHQ3
8	6	Faston	126.5	57.7	45.7	103.2	—	CCM1708-ND	88.17	61.67	51.49	6EHQ1
MV Series — Multipurpose Medical Filter for Power Line Noise Protection — RoHS Compliant												
8	6	Faston	98.0	52.8	38.9	74.63	—	CCM1712-ND	39.88	27.90	23.30	6MV1
	10		98.0	52.8	38.9	74.63	—	CCM1642-ND	45.06	31.49	26.31	10MV1
	20		132.8	85.9	38.9	95.25	—	CCM1824-ND	91.01	63.64	53.15	20MV1

◆ ***RoHS Compliant***

(Continued)

Fig. 1

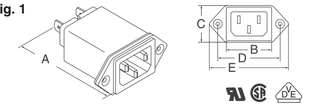

Fig. 2

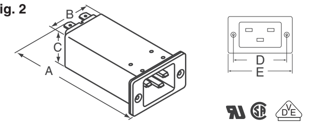

Fig. 3

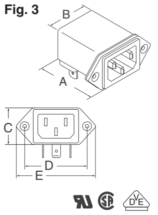

Fig. 4

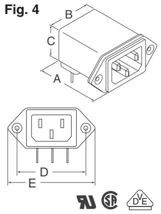

Fig. 5

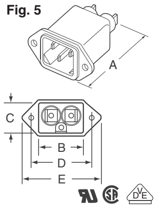

Fig. 6

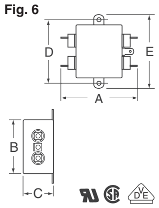

Fig. 7

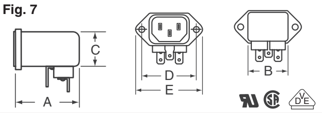

Fig. 8

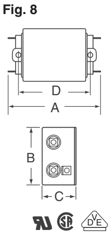

Fig. 9

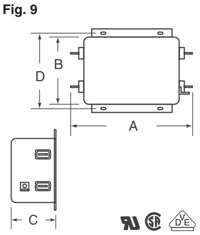

Fig.10

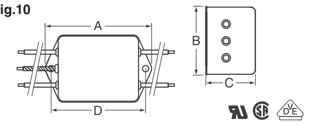

RF Line Filters *(Cont.)*

PC Board Mountable Filters

EDP Series: These RFI power line filters provide enhanced differential-mode performance for applications requiring more line-to-line protection.
EOP Series: A general purpose filter which is effective in removing both common and differential-mode noise for susceptibility applications.
X Series: This series was designed to bring most digital equipment (including switching power supplies) into compliance with FCC Part 15J, Class B conducted emission limits.
Z Series: A design that brings most digital equipment (including switching power supplies) into compliance with EN55022 Level B, (as well as FCC Part 15J, Class B) conducted emission limits.

Fig.	Rated Current 120 V (Amps)	Termination	Dimension in mm A	B	C	D	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
							EDP Series — For General Purpose Applications — RoHS Compliant				
1	1 3 10	PCB	36.6 36.6 36.6	31.5 31.5 31.5	24.15 24.15 24.15	— — —	CCM1364-ND CCM1365-ND CCM1742-ND	21.99 20.05 21.77	15.38 14.01 15.22	12.85 11.71 12.72	1EDP 3EDP 10EDP
							EOP Series — For General Purpose Application — RoHS Compliant				
1	1 3 10	PCB	36.6 36.6 36.6	31.5 31.5 31.5	19.9 19.9 19.9	— — —	CCM1366-ND CCM1367-ND CCM1673-ND	18.06 16.19 17.12	12.63 11.32 12.00	10.55 9.45 9.99	1EOP 3EOP 10EOP
							X Series — For Emission Control Applications — RoHS Compliant				
2	3 6	PCB	66.80 66.29	28.70 28.70	41.15 44.45	— —	CCM1370-ND CCM1371-ND	28.71 44.28	20.07 30.96	16.76 25.85	3EXP 6EXP
							Z Series — For Emission Control Applications				
2	1 2 3	PCB	66.3 66.3 66.3	28.7 28.7 28.7	41.1 44.4 44.4	— — —	CCM1682-ND◆ CCM1368-ND◆ CCM1369-ND	35.86 35.77 35.86	25.08 25.02 25.07	20.95 20.89 20.94	1EZP 2EZP 3EZP
3	3	Faston	89.9	52.8	33.3	74.63	CCM1696-ND◆	41.53	29.06	24.25	3EZ1

◆ *RoHS Compliant*

Fig. 1

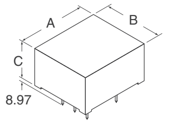

Fig. 2

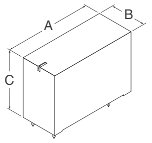

Fig. 3

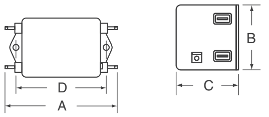

DC Filters

DA Series: The DA series filters were designed as general purpose line filters for DC applications up to 125VDC. They are compact with a 3-pin inlet connector. The DA series addresses the increasing need for DC rated filters with a standard DC power inlet. Any internal DC connection within larger multi-component systems, or external DC connection between user installed components which require filtering will benefit.

DC Series: The DC series filters were designed as general purpose line filters for DC applications. They are available with or without circuit breakers for extra protection. These filters are generally used in central office equipment like switches, routers, and hubs to clean up the 48VDC power, but are not exclusive to that equipment. They can also be used at the primary input of the DC power supply.

Fig.	Rated Current 120 V (Amps)	Termination	Dimension in mm A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
								DA Series — Compact RFI Filter with DC Inlet Connector				
1	3 10	Faston	54.61 54.61	— —	20.57 20.57	40.01 40.01	50.29 50.29	CCM1745-ND CCM1743-ND	16.05 16.60	11.22 11.60	9.38 9.70	3DAF1 10DAF1
								DC Series — RFI Power Line Filters for DC Applications				
2	15 30	Stud	135.40 157.20	78.70 100.60	45.20 55.40	68.0 88.9	50.80 50.80	CCM1737-ND CCM1828-ND	81.47 100.63	74.15 91.59	62.74 77.50	15DCF6 30DCF6

Fig. 1

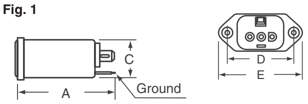

Fig. 2

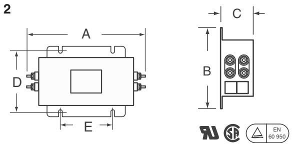

IEC Inlet Line Filters

EAS Series: This filter offers the performance characteristics of the EEA susceptibility filter with the additional advantage of a snap-in panel mount. The EAS series supersedes the EF series by providing superior performance, particularly in the common mode at low frequencies.

EBF Series: The EBF accessory outlet filters provides an innovative means of connecting accessories while filtering noise between a system and the accessories attached. These filters provide enhanced performance utilizing common mode inductance and differential mode capacitance for attenuation of noise across the frequency range. The filtered connector offers the additional advantage of a grounded connection and features low leakage current required for international usage.

EBS Series: This filter offers the performance characteristics of the EEB susceptibility filter with the additional advantage of a snap-in panel mount.

EC Series: This series of filtered power entry modules provides the highest attenuation of any standard filter available in a package size limited by the dimensions of the integral IEC connector. These filters combine high common-mode inductance with high differential-mode capacitance and minimal parasitic elements, for effective attenuation of line-to-ground and line-to-line noise across the frequency range.

ED Series: These filtered power entry modules are more effective than general purpose filters in applications where line-to-line and low frequency line-to-ground noise must be controlled.

EEA Series: A new design in both the internal structure and manufacturing process makes this series cost effective and compact.

EEB Series: This is a compact RFI filter with IEC socket. A new design in both the internal structure and manufacturing process makes this series cost effective and compact. Electrically, the EEB provides enhanced differential mode performance compared to both the EEA and EF series. Mechanically, its slimmer size makes it compatible with all similar filters on the market.

EEJ Series: The 1-15 Amp versions are flange mounted and mechanically equivalent to the EEA/EEB series. The performance has been enhanced to meet the needs for more attenuation. It also has an extended metal flange around the socket for improved high frequency EMI shielding. The EEJ series also includes a 20 Amp version that uses the inlet IEC 320/C20.

EF Series: This rugged international series of filtered power entry modules incorporates the special IEC power line connector. They are UL recognized, CSA certified, and VDE and SEV approved. Models with F suffix are SEMKO approved and comply with BSI standards.

EJS Series: The 1-15 Amp versions are snap-in mounted and mechanically equivalent to the EAS/EBS series. The performance has been enhanced to meet the needs for more attenuation. It has improved high frequency EMI shielding. The EJS series also includes a 20 Amp version that uses the inlet IEC 320/C20.

EJT Series: The EJT Series is a power inlet filter designed to attenuate noise up to 1 GHz. This inlet uses an IEC 320/C14 input connector. This product was designed to address the demand for more noise attenuation at higher frequencies in a compact inlet.

SRB Series: The SRB series is one of the smallest depth available on the market, it features a complete shield design with various capacitance values. The SRB series is rated up to 15A, 250VAC, 10A VDE. This product is ideally suited for power supplies or other applications which require a minimum depth low cost solution.

Fig.	Rated Current 120 V (Amps)	Termination	Dimension in mm A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
								EAS Series — Snap-In Compact RFI Filter — RoHS Compliant				
1	3 6	Faston	55.88 55.88	29.2 29.2	24.38 24.38	29.97 29.97	35.81 35.81	CCM1691-ND CCM1701-ND	13.71 12.83	9.60 8.98	8.01 7.50	3EAS1 6EAS1
								EBF Series — Accessory Outlet Filter — RoHS Compliant				
2	6	Faston	65.3	33.8	25.4	40.01	50.5	CCM1702-ND	18.53	12.95	10.83	6EBF1
								EBS Series — Snap-In Compact RFI Filter — RoHS Compliant				
1	6	Faston, Straight	55.88	29.2	24.38	30.10	34.21	CCM1761-ND	16.33	11.42	9.55	6EBS1
								EC Series — High Performance RFI Filter with IEC Connector — RoHS Compliant				
3	1 3 6 10	Faston, Straight	66.5 66.5 66.5 66.5	30.2 30.2 30.2 30.2	20.6 20.6 20.6 20.6	40.1 40.01 40.01 40.01	50.3 50.3 50.3 50.3	CCM1680-ND CCM1623-ND CCM1611-ND CCM1646-ND	25.68 25.68 25.68 27.06	17.96 17.96 17.96 18.92	15.00 15.00 15.00 15.80	1EC1 3EC1 6EC1 10EC1

◆ *RoHS Compliant*
† 1250W, 10A ~ 125VAC SVT, Black, UL, CSA. Not recommended for patient care applications due to leakage current of the line cord.

(Continued)

Fig. 1

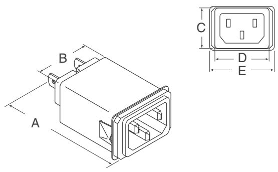

Fig. 2

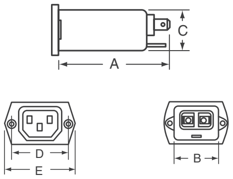

Fig. 3

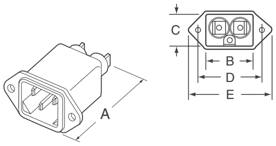

RF Line Filters

IEC Inlet Line Filters *(Cont.)*

Fig.	Rated Current 120 V (Amps)	Termination	Dimension in mm					Digi-Key Part No.	Price Each			Corcom Part No.
			A	B	C	D	E		1	25	100	
ED Series — High Performance RFI Power Line Filters with IEC Connectors												
3	1	Faston, Straight	56.0	30.2	20.6	40.01	50.3	CCM1203-ND◆	18.89	13.22	11.05	1ED1
	3		56.0	30.2	20.6	40.01	50.3	CCM1204-ND	18.89	13.22	11.05	3ED1
	6		56.0	30.2	20.6	40.01	50.3	CCM1205-ND◆	18.89	13.22	11.05	6ED1
	10		66.5	30.2	20.6	40.01	50.3	CCM1206-ND◆	19.49	13.62	11.39	10ED1
	15		66.5	30.2	20.6	40.01	50.3	CCM1676-ND◆	20.75	14.50	12.11	15ED1
4	3	Wire Lead, Straight	39.4	30.2	20.6	40.01	50.3	CCM1214-ND◆	18.74	13.12	10.97	3ED8
	6		39.4	30.2	20.6	40.01	50.3	CCM1215-ND◆	18.89	13.22	11.05	6ED8
	15	Wire Lead, Straight	50.3	30.2	20.6	40.01	50.3	CCM1677-ND◆	20.75	14.50	12.11	15ED8
	6		50.3	30.2	20.6	40.01	50.3	CCM1218-ND◆	24.00	16.80	14.03	6ED8C
3	6	Faston, Straight	66.5	30.2	20.6	40.01	50.3	CCM1216-ND◆	23.79	16.63	13.90	6ED1C
	10		66.5	30.2	20.6	40.01	50.3	CCM1219-ND◆	25.80	18.06	15.08	10ED1C
5	3	Wire Lead, Right Angle	39.4	30.2	21.6	40.01	50.3	CCM1211-ND	18.89	13.22	11.05	3ED4
	6	Faston, Right Angle	39.4	30.2	21.6	40.01	50.3	CCM1209-ND◆	18.89	13.22	11.05	6ED2
EEA Series — Compact RFI Filter IEC Connector Package — RoHS Compliant												
6	3	Faston, Straight	54.6	28.4	20.6	40.01	50.3	CCM1622-ND	12.72	8.90	7.44	3EEA1
	6		54.6	28.4	20.6	40.01	50.3	CCM1610-ND	11.74	8.20	6.86	6EEA1
	10		54.6	28.4	20.6	40.01	50.3	CCM1645-ND	12.95	9.05	7.54	10EEA1
	15		54.6	28.4	20.6	40.01	50.3	CCM1766-ND	14.62	10.22	8.55	15EEA1
7	6	Faston, Right Angle	39.1	28.4	20.6	40.01	50.3	CCM1703-ND	13.93	9.74	8.14	6EEAP
EEB Series — Compact RFI Filter IEC Connector Package — RoHS Compliant												
7	1	Faston, Right Angle	39.1	28.4	20.6	40.01	50.3	CCM1768-ND	20.74	14.52	12.12	1EEBP
6	3	Faston	54.6	28.4	20.6	40.01	50.3	CCM1829-ND	16.38	11.45	9.57	3EEB1
	10	Faston, Straight	54.6	28.4	20.6	40.01	50.3	CCM1740-ND	16.48	11.53	9.62	10EEB1
EEJ Series — Enhanced Performance Compact RFI Filter IEC Connector Package												
6	1	Straight	54.61	30.48	24.38	40.00	51.76	CCM1220-ND◆	11.93	8.34	6.96	1EEJ1
	3		54.61	30.48	24.38	40.00	51.76	CCM1221-ND◆	9.64	6.76	5.64	3EEJ1
	6		54.61	30.48	24.38	40.00	51.76	CCM1222-ND◆	9.00	6.30	5.25	6EEJ1
	10		54.61	30.48	24.38	40.00	51.76	CCM1223-ND◆	9.78	6.86	5.71	10EEJ1
	15		54.61	30.48	24.38	40.00	51.76	CCM1224-ND◆	10.62	7.42	6.21	15EEJ1
8	20	Straight	79.38	34.79	29.99	42.01	53.00	CCM1225-ND◆	17.42	12.18	10.18	20EEJ1
5	1	Right Angle	39.12	28.70	24.38	40.00	51.76	CCM1226-ND	12.82	8.96	7.47	1EEJ2
	3		39.12	28.70	24.38	40.00	51.76	CCM1227-ND	10.52	7.36	6.14	3EEJ2
	6		39.12	28.70	24.38	40.00	51.76	CCM1228-ND◆	9.78	6.86	5.71	6EEJ2
	15		45.47	28.70	24.38	40.00	51.76	CCM1230-ND◆	10.85	7.61	6.35	15EEJ2
7	1	PCB	39.12	28.70	24.38	40.00	51.76	CCM1231-ND◆	14.26	9.98	8.34	1EEJP
	3		39.12	28.70	24.38	40.00	51.76	CCM1232-ND◆	11.35	7.96	6.62	3EEJP
	6		39.12	28.70	24.38	40.00	51.76	CCM1233-ND◆	10.55	7.37	6.16	6EEJP
	10		39.12	28.70	24.38	40.00	51.76	CCM1234-ND	11.35	7.96	6.62	10EEJP
	15		45.47	28.70	24.38	40.00	51.76	CCM1235-ND◆	12.91	9.02	7.53	15EEJP
EF Series — Compact RFI Filter IEC Connector — RoHS Compliant												
3	1	Faston, Straight	55.9	30.2	20.6	40.01	50.3	CCM1100-ND	15.75	11.01	9.20	1EF1F
	3		55.9	30.2	20.6	40.01	50.3	CCM1101-ND	15.75	11.01	9.20	3EF1F
	6		55.9	30.2	20.6	40.01	50.3	CCM1102-ND	15.75	11.01	9.20	6EF1F
	10		66.5	30.2	20.6	40.01	50.3	CCM1103-ND	16.02	11.22	9.37	10EF1F
	3		55.9	30.2	20.6	40.01	50.3	CCM1621-ND	18.86	13.19	11.02	3EF1
	6	Faston, Straight	55.9	30.2	20.6	40.01	50.3	CCM1609-ND	19.54	13.66	11.41	6EF1
	15		66.5	30.2	20.6	40.01	50.3	CCM1636-ND	23.30	16.28	13.61	15EF1F
4	6	Wire Lead, Straight	39.4	30.2	20.6	40.01	50.3	CCM1704-ND	15.26	10.67	8.90	6EF8
EJS Series — Enhanced Performance Snap-In Compact RFI Filter IEC Connector Package												
1	1	Straight	55.88	27.94	24.38	30.10	34.21	CCM1252-ND	12.94	9.06	7.57	1EJS1
	3		55.88	27.94	24.38	30.10	34.21	CCM1253-ND◆	10.71	7.50	6.27	3EJS1
	6		55.88	27.94	24.38	30.10	34.21	CCM1254-ND◆	10.00	6.98	5.84	6EJS1
	10		55.88	27.94	24.38	30.10	34.21	CCM1255-ND	10.78	7.54	6.32	10EJS1
	15		55.88	27.94	24.38	30.10	34.21	CCM1256-ND◆	10.82	7.56	6.33	15EJS1
9	20	Straight	79.375	34.29	29.99	37.08	36.07	CCM1257-ND◆	20.21	14.14	11.80	20EJS1
EJT1 Series — Compact RFI Filter For Higher Frequency Applications												
10	1A	Faston	56.6	30.2	22.2	40.0	50.3	CCM1652-ND	19.77	13.84	11.55	1EJT1
	3A		56.6	30.2	22.2	40.0	50.3	CCM1653-ND◆	19.72	13.78	11.53	3EJT1
	6A		56.6	30.2	22.2	40.0	50.3	CCM1654-ND	19.69	13.77	11.52	6EJT1
	10A		56.6	30.2	22.2	40.0	50.3	CCM1655-ND◆	19.77	13.84	11.55	10EJT1
	15A		56.6	30.2	22.2	40.0	50.3	CCM1656-ND	20.06	14.03	11.72	15EJT1
EJT8 Series — Compact RFI Filter For Higher Frequency Applications												
4	1A	Wire Lead	56.6	30.2	22.2	40.0	50.3	CCM1657-ND	18.87	13.20	11.03	1EJT8
	3A		56.6	30.2	22.2	40.0	50.3	CCM1658-ND◆	18.87	13.20	11.03	3EJT8
	6A		56.6	30.2	22.2	40.0	50.3	CCM1659-ND◆	19.17	13.39	11.19	6EJT8
	10A		56.6	30.2	22.2	40.0	50.3	CCM1660-ND◆	19.25	13.45	11.23	10EJT8
	15A		56.6	30.2	22.2	40.0	50.3	CCM1661-ND	19.54	13.68	11.41	15EJT8

Fig.	Capacitor Value (pF)	Termination	Dimension in mm					Digi-Key Part No.	Price Each			Corcom Part No.
			A	B	C	D	E		1	25	100	
SRB Series — 15A, 250VAC, Reduced Footprint, Shielded Line Filter — RoHS Compliant												
6	—	Faston	44.45	28.70	24.38	40.00	51.76	CCM1770-ND	2.17	1.52	1.26	15SRB1
	33		44.45	28.70	24.38	40.00	51.76	CCM1771-ND	5.93	4.16	3.46	15SRB1-Q
	3300		44.45	28.70	24.38	40.00	51.76	CCM1772-ND	3.52	2.48	2.07	15SRB1-Z
4	—	Wire Lead	23.82	28.70	24.38	40.00	51.76	CCM1773-ND	2.61	1.84	1.54	15SRB8
	33		23.82	28.70	24.38	40.00	51.76	CCM1774-ND	5.94	4.15	3.48	15SRB8-Q
	100		23.82	28.70	24.38	40.00	51.76	CCM1775-ND	2.90	2.03	1.70	15SRB8-R
	220		23.82	28.70	24.38	40.00	51.76	CCM1776-ND	2.90	2.03	1.70	15SRB8-S
	330		23.82	28.70	24.38	40.00	51.76	CCM1777-ND	2.98	2.10	1.75	15SRB8-T
	470	Wire Lead	23.82	28.70	24.38	40.00	51.76	CCM1778-ND	2.99	2.09	1.75	15SRB8-W
	1000		23.82	28.70	24.38	40.00	51.76	CCM1779-ND	3.30	2.30	1.93	15SRB8-X

◆ ***RoHS Compliant***

† 1250W, 10A ~ 125VAC SVT, Black, UL, CSA. Not recommended for patient care applications due to leakage current of the line cord.

(Continued)

Fig. 4

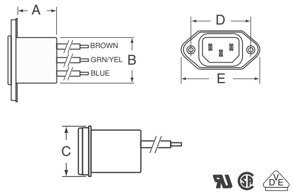

Fig. 5

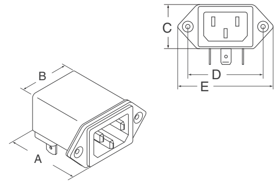

Fig. 6

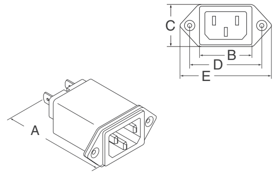

Fig. 7

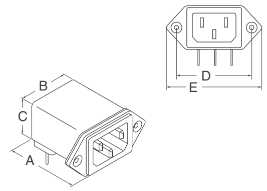

Fig. 8

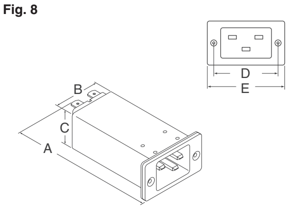

Fig. 9

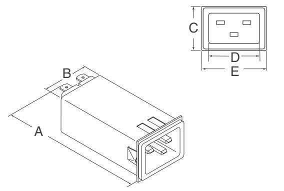

Fig. 10

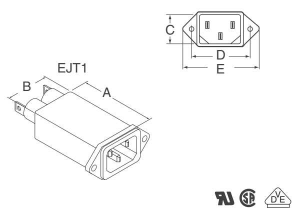

Tyco Electronics Corcom
Authorized Distributor

RF Line Filters

IEC Inlet Line Filters *(Cont.)*

Fig.	Capacitor Value (pF)	Termination	Dimension in mm A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
6	—	Faston	44.45	28.70	24.38	30.10	35.81	CCM1780-ND	2.43	1.70	1.42	15SRBS1
	220		44.45	28.70	24.38	30.10	35.81	CCM1781-ND	2.99	2.09	1.75	15SRBS1-S
	330		44.45	28.70	24.38	30.10	35.81	CCM1782-ND	3.07	2.16	1.80	15SRBS1-T
	1000		44.45	28.70	24.38	30.10	35.81	CCM1783-ND	3.07	2.16	1.80	15SRBS1-X
11	—	Wire Lead	28.45	28.70	24.38	30.10	35.81	CCM1784-ND	2.91	2.04	1.70	15SRBS8
	33		28.45	28.70	24.38	30.10	35.81	CCM1785-ND	6.32	4.41	3.69	15SRBS8-Q
	100		28.45	28.70	24.38	30.10	35.81	CCM1786-ND	3.23	2.25	1.89	15SRBS8-R
	470		28.45	28.70	24.38	30.10	35.81	CCM1787-ND	3.28	2.29	1.92	15SRBS8-W
	1000		28.45	28.70	24.38	30.10	35.81	CCM1788-ND	3.18	2.24	1.87	15SRBS8-X
General — RoHS Compliant												
12	7.5', 3 Conductor Line Cord to Mate with Models within Catalog							CCM1819-ND†	8.23	7.44	6.51	GA400

◆ ***RoHS Compliant*** † 1250W, 10A ~ 125VAC SVT, Black. Not recommended for patient care applications due to leakage current of the line cord.

Fig. 11

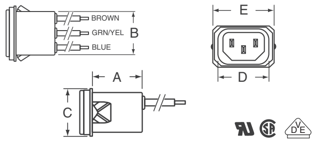

Fig. 12

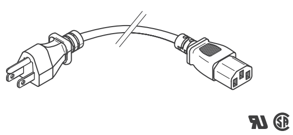

EMI Filters

DELTA

Since 1981, Delta has produced high quality, dependable EMI filters for power supplies, monitors, instruments, networking and medical equipment and many other tools used throughout the world. The present products cover IEC inlet filters with a maximum of 20A. • **Safety Specifications:** For safety ratings and certifications, please see data sheet.

Fig. 1

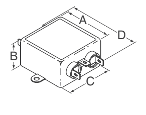

Fig. 2

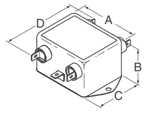

Fig. 3

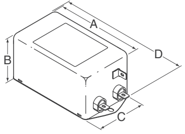

Fig. 4

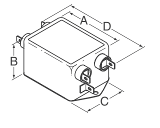

Fig. 5

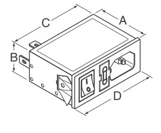

Fig. 6

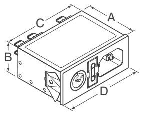

Fig. 7

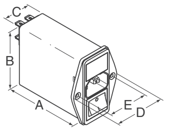

Fig. 8

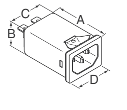

Fig. 9

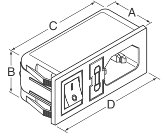

Fig. 10

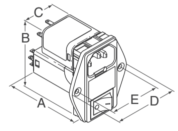

Fig. 11

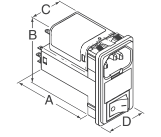

Fig. 12

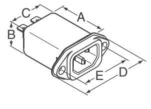

Fig. 13

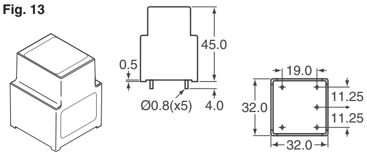

Fig.	Current Rating 115VAC	250VAC	Termination	Dimensions — Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	100	Delta Part No.
General Purpose Filters												
1	20A	20A	Faston/Solder	2.02 (51.3)	1.16 (29.5)	2.02 (51.3)	3.25 (82.5)	603-1136-ND	11.77	8.53	7.59	20DBAG5
	2A	2A	Faston/Solder	2.02 (51.3)	0.65 (16.5)	1.77 (45.0)	2.15 (54.6)	603-1141-ND	7.23	4.92	4.43	02DBAG5
	5A	5A	Faston/Solder	—	1.16 (29.5)	2.04 (51.8)	2.99 (75.9)	603-1143-ND	9.10	6.26	5.69	05DKAG5
2	20A	20A	Faston/Solder	2.52 (64.0)	1.54 (39.1)	2.02 (51.3)	3.36 (85.3)	603-1139-ND	17.03	12.39	11.03	20DKBG5
Switching Transient Filters												
3	6A	6A	Faston/Solder	3.76 (95.5)	1.83 (46.4)	2.22 (56.5)	4.49 (114.0)	603-1152-ND	26.12	19.59	18.29	06DCCG5B
Multi-Purpose Power Line Filters												
4	10A	10A	Faston/Solder	—	1.54 (39.1)	2.06 (52.3)	3.75 (95.2)	603-1148-ND	14.06	10.23	9.27	10DWCG5
High Performance Filters												
2	20A	20A	Faston/Solder	3.33 (84.6)	1.52 (38.6)	—	5.14 (130.5)	603-1147-ND	29.50	22.70	21.19	20DRGG5
4	10A	10A	Faston/Solder	3.33 (84.6)	1.52 (38.6)	2.02 (51.3)	3.75 (95.2)	603-1137-ND	15.44	11.24	10.18	10DRCG5

IEC

Fig.	Current Rating 115VAC	250VAC	Termination	Dimensions — Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	Delta Part No.
Power Entry EMI Filters													
5	6A	4A	Faston/Solder	1.15 (29.2)	1.06 (27.0)	2.57 (65.3)	2.65 (67.3)	—	603-1131-ND	18.48	13.64	12.54	06AK2D
6	6A	6A	Faston/Solder	1.74 (44.2)	1.06 (27.0)	2.57 (65.3)	2.65 (67.3)	—	603-1144-ND	19.76	14.59	13.41	06AK5
7	10A	10A	Faston/Solder	2.76 (70.1)	2.37 (60.2)	1.14 (29.0)	1.99 (50.5)	1.57 (40.0)	603-1146-ND	24.90	18.68	17.43	10EK3S
Snap-In													
8	8A	4A	Faston/Solder	1.66 (42.2)	1.12 (28.4)	0.84 (21.4)	1.22 (31.0)	—	603-1133-ND	6.65	4.61	4.07	03GENG3E
	8A	4A	Faston/Solder	1.66 (42.6)	0.82 (20.8)	1.12 (28.4)	1.22 (31.0)	—	603-1151-ND†	7.65	5.21	4.59	06GENG3E-R(H)
9	4A	4A	Faston/Solder	1.06 (26.9)	1.15 (29.2)	2.6 (66.0)	2.65 (67.3)	—	603-1138-ND	9.12	6.27	5.70	06A2D
	6A	4A	Faston/Solder	1.74 (44.2)	1.06 (27.0)	2.57 (65.3)	2.65 (67.3)	—	603-1132-ND	20.00	15.30	14.00	06AR2D
	6A	6A	Faston/Solder	1.74 (44.2)	1.06 (27.0)	2.57 (65.3)	2.65 (67.3)	—	603-1140-ND	20.01	14.78	13.59	06AR2
Compact IEC													
10	10A	6A	Faston/Solder	2.01 (51.3)	2.28 (58.00)	1.10 (28.00)	1.97 (50.0)	1.57 (40.0)	603-1149-ND	16.32	11.88	10.76	10SB3S
11	10A	6A	Faston/Solder	2.16 (55.00)	2.28 (58.00)	1.10 (28.00)	1.26 (32.0)	—	603-1150-ND	16.85	12.26	10.92	10NB3S
EMI Filters													
12	3A	3A	Faston/Solder	0.85 (21.6)	0.84 (21.3)	1.12 (28.5)	2.05 (52.1)	1.57 (40.0)	603-1153-ND	6.63	4.42	3.96	03GEEG3E
	10A	10A	Faston/Solder	0.85 (21.6)	0.84 (21.3)	1.12 (28.5)	2.05 (52.1)	1.57 (40.0)	603-1154-ND	6.63	4.42	3.96	10GEEG3E
	8A	6A	Faston/Solder	0.85 (21.6)	0.84 (21.3)	1.12 (28.5)	2.05 (52.1)	1.57 (40.0)	603-1155-ND	6.63	4.42	3.96	06GEEG3E

† With Bleed Resistor

PCB Board Mount

Fig.	Current Rating 115VAC	250VAC	Digi-Key Part No.	Price Each 1	25	100	Delta Part No.
13	3A	3A	603-1142-ND	9.29	6.39	5.81	03MK2

Power Line EMI Filters

EB Series: General purpose EMI filters, which suppress high frequency conducted noise both into and out of the equipment through the power lines. The compact and low cost designs make these a good choice for cleaning up noisy power lines.

EK Series: General purpose EMI filters with enhanced differential mode performance. They are effective in suppressing both common mode and differential mode noise. This series is a very good choice when it is required to comply with basic EMI emission regulations, such as FCC-A and VDE-A.

ER Series: High performance EMI filters with multi-stage design for both common mode and differential mode noise suppression. This series is most useful when attenuation is required for compliance with stringent EMI emission regulations such as FCC-B and VDE-B.

HB Series: General purpose EMI filters specially designed for medical and dental equipment, both patient care and nonpatient categories. The leakage current in this series is extremely low to satisfy the stringent leakage current limit imposed by safety regulations for medical and dental equipment, such as UL544 and IEC601.

Fig. 1

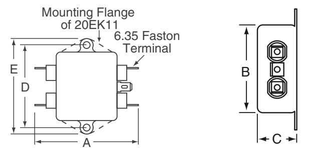

Fig. 2

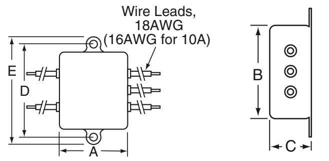

Fig. 3

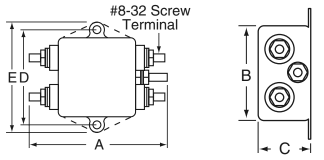

Fig. 4

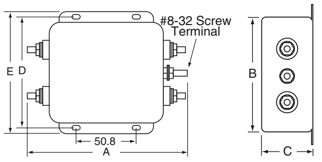

Fig. 5

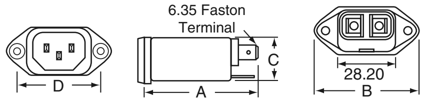

Fig. 6

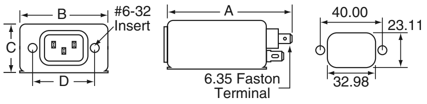

Fig. 7

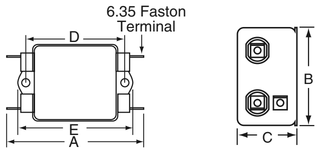

Fig. 8

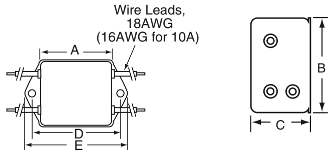

Fig. 9

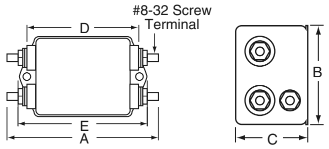

Fig.	Rated Amps	Termination	Dimensions (mm)					Digi-Key Part No.	Price Each			Curtis Industries Part No.
			A	B	C	D	E		1	25	100	
						Series EB						
1	2A	Faston	57.2	46.2	16.8	54.0	64.3	364-1000-ND	9.04	7.41	6.21	02EB11
	3A	Faston	66.3	46.2	19.8	54.0	64.3	364-1001-ND	10.08	8.27	6.92	03EB11
	6A	Faston	66.3	46.2	19.8	54.0	64.3	364-1002-ND	9.96	8.17	6.84	06EB11
	10A	Faston	66.3	46.2	29.5	54.0	64.3	364-1008-ND	11.17	9.16	7.67	10EB11
	20A	Faston	85.3	52.6	29.5	60.3	71.4	364-1003-ND	16.96	13.91	11.64	20EB11
2	2A	Wire	24.4	46.2	16.8	54.0	64.3	364-1004-ND	8.96	7.35	6.15	02EB33
	3A	Wire	33.5	46.2	19.8	54.0	64.3	364-1005-ND	10.08	8.27	6.92	03EB33
	6A	Wire	33.5	46.2	19.8	54.0	64.3	364-1006-ND	10.08	8.27	6.92	06EB33
	10A	Wire	33.5	46.2	29.5	54.0	64.3	364-1007-ND	11.13	9.12	7.64	10EB33
3	10A	Screw	69.1	46.2	29.5	54.0	64.3	364-1009-ND	16.58	13.60	11.38	10EB66
	20A	Screw	87.9	52.6	29.5	60.3	71.4	364-1010-ND	19.96	16.37	13.70	20EB66
4	30A	Screw	135.6	85.9	38.9	95.2	106.7	364-1011-ND	37.71	30.92	25.89	30EB66
5	1A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1012-ND	9.29	7.62	6.38	01EBM1
	3A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1013-ND	9.29	7.62	6.38	03EBM1
	6A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1014-ND	9.21	7.55	6.32	06EBM1
	10A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1015-ND	8.96	7.35	6.15	10EBM1
						Series EK						
1	2A	Faston	78.7	52.6	23.1	60.3	71.4	364-1016-ND	11.13	9.12	7.64	02EK11
	3A	Faston	78.7	52.6	29.5	60.3	71.4	364-1017-ND	13.25	10.87	9.10	03EK11
	6A	Faston	78.7	52.6	29.5	60.3	71.4	364-1018-ND	12.04	9.87	8.27	06EK11
	10A	Faston	85.1	52.6	29.5	60.3	71.4	364-1019-ND	12.92	10.59	8.87	10EK11
	20A	Faston	85.1	65.0	38.9	74.6	85.1	364-1020-ND	18.96	15.55	13.01	20EK11
2	2A	Wire	46.0	52.6	23.1	60.3	71.4	364-1021-ND	12.29	10.08	8.44	02EK33
	3A	Wire	46.0	52.6	29.5	60.3	71.4	364-1022-ND	13.92	11.41	9.55	03EK33
	6A	Wire	46.0	52.6	29.5	60.3	71.4	364-1023-ND	13.04	10.69	8.95	06EK33
	10A	Wire	52.6	52.6	29.5	60.3	71.4	364-1024-ND	12.83	10.52	8.81	10EK33
6	3A	IEC320/Faston	81.5	57.2	32.5	40.0	—	364-1025-ND	15.00	12.30	10.30	03EKM1
	6A	IEC320/Faston	81.5	57.2	32.5	40.0	—	364-1026-ND	13.88	11.38	9.53	06EKM1
	10A	IEC320/Faston	94.2	57.2	32.5	40.0	—	364-1027-ND	15.42	12.64	10.58	10EKM1
3	10A	Screw	87.9	52.6	29.5	60.3	71.4	364-1028-ND	16.17	13.26	11.10	10EK66
	20A	Screw	87.9	65.0	38.9	74.6	85.1	364-1029-ND	21.92	17.97	15.05	20EK66
4	30A	Screw	135.6	85.9	38.9	95.2	106.7	364-1030-ND	41.04	33.65	28.18	30EK66
						Series ER						
7	2A	Faston	85.1	46.0	29.5	60.3	70.6	364-1031-ND	16.83	13.80	11.56	02ER11
	3A	Faston	97.8	52.6	29.5	74.6	85.1	364-1032-ND	18.04	14.79	12.39	03ER11
	6A	Faston	97.8	52.6	29.5	74.6	85.1	364-1033-ND	17.00	13.94	11.67	06ER11
	10A	Faston	97.8	52.6	38.9	74.6	85.1	364-1034-ND	17.79	14.59	12.21	10ER11
	20A	Faston	132.8	85.6	38.9	95.2	106.7	364-1035-ND	39.88	32.70	27.37	20ER11
8	2A	Wire	52.6	46.0	29.5	60.3	70.6	364-1036-ND	17.21	14.11	11.81	02ER33
	3A	Wire	65.0	52.6	29.5	74.6	85.1	364-1037-ND	17.58	14.42	12.07	03ER33
	6A	Wire	65.0	52.6	29.5	74.6	85.1	364-1038-ND	17.92	14.69	12.30	06ER33
	10A	Wire	65.0	52.6	38.9	74.6	85.1	364-1039-ND	18.46	15.14	12.67	10ER33
6	3A	IEC320/Faston	110.0	57.2	32.5	40.0	—	364-1040-ND	20.83	17.08	14.30	03ERM1
	6A	IEC320/Faston	110.0	57.2	32.5	40.0	—	364-1041-ND	19.67	16.13	13.50	06ERM1
	10A	IEC320/Faston	110.0	57.2	38.9	40.0	—	364-1042-ND	21.17	17.36	14.53	10ERM1
9	10A	Screw	100.6	52.6	38.9	74.6	85.1	364-1043-ND	21.13	17.32	14.50	10ER66
4	20A	Screw	135.6	85.6	38.9	95.2	106.7	364-1044-ND	41.00	33.62	28.15	20ER66
	30A	Screw	151.1	79.2	55.4	88.9	100.6	364-1045-ND	71.96	59.01	49.40	30ER66
						Series HB						
1	6A	Faston	66.3	46.2	19.8	54.0	64.3	364-1046-ND	10.25	8.41	7.04	06HB11
2	6A	Wire	33.5	46.2	19.8	54.0	64.3	364-1047-ND	9.96	8.17	6.84	06HB33
5	6A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1048-ND	11.75	9.64	8.07	06HBM1

Audio Aluminum Electrolytic Capacitors

RFS Series

ELNA developed new raw material for the separate paper which uses a silk fiber. Therefore, this series can give high grade sound for any audio design. This series can be used to relieve the music's vibration energy, to decrease the peak feeling sound at high compass, rough quality sound at middle compass and to increase massive sound at low compass.

Dim. in mm

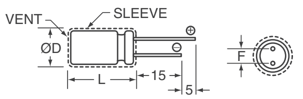

Specifications:

- Operating Temperature Range: -40°C ~ 85°C
- Standards: JIS C5101-1, -4 1998 (IEC 60384-1 1992, -4 1985)

WV DC	Cap. (µF)	Rated Ripple Current (mArms)	Dimensions (mm) D	L	F	Digi-Key Part No.	Pricing 1	10	100	ELNA Part No.
25	4.7	25	5.0	11.0	2.0	604-1049-ND	.15	1.19	9.35	RFS-25V4R7ME3#
	10	35	5.0	11.0	2.0	604-1050-ND	.15	1.19	9.35	RFS-25V100ME3#
	22	60	5.0	11.0	2.0	604-1051-ND	.15	1.19	9.35	RFS-25V220ME3#
	22	80	6.3	11.0	2.5	604-1052-ND	.20	1.61	12.64	RFS-25V220MF3#
	33	120	8.0	11.5	3.5	604-1053-ND	.24	1.93	15.11	RFS-25V330MG3#
	47	140	8.0	11.5	3.5	604-1054-ND	.24	1.93	15.11	RFS-25V470MG3#
	100	270	10.0	16.0	5.0	604-1055-ND	.48	3.83	30.03	RFS-25V101MH4#
	220	505	12.5	20.0	5.0	604-1056-ND	.86	6.91	54.12	RFS-25V221MI5#
	330	675	12.5	25.0	5.0	604-1057-ND	1.08	8.66	67.87	RFS-25V331MI6#
	470	940	16.0	25.0	7.5	604-1058-ND	1.38	11.04	86.48	RFS-25V471MJ6#
	1000	1575	16.0	35.5	7.5	604-1059-ND	3.32	26.56	208.05	RFS-25V102MJ8#

WV DC	Cap. (µF)	Rated Ripple Current (mArms)	Dimensions (mm) D	L	F	Digi-Key Part No.	Pricing 1	10	100	ELNA Part No.
35	4.7	30	5.0	11.0	2.0	604-1060-ND	.15	1.19	9.35	RFS-35V4R7ME3#
	10	35	5.0	11.0	2.0	604-1061-ND	.15	1.19	9.35	RFS-35V100ME3#
	22	95	8.0	11.5	3.5	604-1062-ND	.24	1.93	15.11	RFS-35V220MG3#
	33	140	10.0	12.5	5.0	604-1063-ND	.33	2.66	20.80	RFS-35V330MH3#
	47	170	10.0	12.5	5.0	604-1064-ND	.33	2.66	20.80	RFS-35V470MH3#
	100	295	10.0	20.0	5.0	604-1065-ND	.52	4.19	32.78	RFS-35V101MH5#
	220	550	12.5	25.0	5.0	604-1066-ND	1.08	8.66	67.87	RFS-35V221MI6#
	330	785	16.0	25.0	7.5	604-1067-ND	1.38	11.04	86.48	RFS-35V331MJ6#
	470	1030	16.0	31.5	7.5	604-1068-ND	2.27	18.15	142.18	RFS-35V471MJ7#
	1000	1690	18.0	35.5	7.5	604-1069-ND	2.68	21.41	167.74	RFS-35V102MK8#

SAL-A 123 Axial Solid AL Electrolytic Capacitors

FEATURES:

- Polarized aluminum electrolytic capacitors, solid electrolyte MnO2
- Axial leads, aluminum case, ceramic seal, blue insulation sleeve.
- SAL-A: standard version
- Extremely long useful life: 20,000 hours at 125°C
- Extended usable temperature range up to 200°C
- Excellent low temperature impedance and ESR behavior
- Charge and discharge proof, application with 0 Ω resistance allowed
- Reverse DC voltage up to 0.3 x U$_R$ allowed
- AC voltage up to 0.8 x U$_R$ allowed
- Advanced technology to achieve high reliability and high stability

APPLICATIONS:

- EDP, telecommunications, general industrial, automotive, military and space
- Smoothing, filtering, buffering, timing
- For power supplies, DC/DC converters

Dimensions in mm

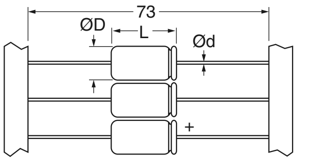

Form BA: Taped in box (ammopack)

DESCRIPTION	VALUE
Case sizes (ØD$_{nom}$ x L$_{nom}$ in mm)	6.7 x 15.3 to 12.9 x 32.0
Rated capacitance range (E6 Series), C$_R$	1.5 to 2200 µF
Tolerance on C$_R$	±20%
Rated voltage range, U$_R$	6.3 to 40V
Category temperature range	-55°C ~ 125°C
Usable temperature range	-80°C ~ 200°C
Endurance test at 155 and 125°C	5000 and 8000 hours
Useful life at 40°C, I$_R$ applied	450,000 hours
Shelf life at 0 V, 125°C	500 hours
Based on sectional specification	IEC 384-4/CECC 30300
Detail specification	IEC384-4-2/CECC 30302
Climatic category IEC 68 (DIN 40040; NF C20-600)	55/125/56 (FKD; 434)
Approvals	CNET LNZ 44-04 COS-C (PTT) Gam-t-1 (MIL) CECC 30302-003

WV (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ	Ripple Curr. (mA)	Dimensions (mm)			Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Box Pricing				Vishay Part No.
					L	D	d		1	10		100	500	1,000	5,000	
6.3	330	104	0.180	330	23.3	9.3	0.6	4267PHCT-ND	10.26	94.02	—	—	—	—	—	2222 123 13331
10	33	17	0.180	63	15.3	6.7	0.6	4271PHCT-ND	8.33	76.37	—	—	—	—	—	2222 123 14339
16	33	55	0.140	89	20.4	7.6	0.6	4284PHCT-ND	8.67	79.45	—	—	—	—	—	2222 123 15339
	68	110	0.140	180	20.4	7.6	0.6	4286PHCT-ND	9.21	84.43	—	—	—	—	—	2222 123 15689
	330	500	0.160	510	32	10.3	0.8	4290PHCT-ND	13.40	122.82	—	—	—	—	—	2222 123 15331
25	100	250	0.160	250	23.3	9.3	0.6	4299PHCT-ND	11.26	103.24	—	—	—	—	—	2222 123 16101
35	15	30	0.120	53	20.4	7.6	0.6	4310PHCT-ND	9.08	83.27	—	—	—	—	—	2222 123 10159
	100	200	0.160	220	32	12.9	0.8	4315PHCT-ND	15.53	142.40	—	—	—	—	—	2222 123 10101
40	3.3	13	0.120	16	15.3	6.7	0.6	4318PHCT-ND	8.17	74.86	4318PHTB-ND	639.70	2615.00	4063.00	3834.00/M	2222 123 17338
	68	270	0.160	170	32	10.3	0.8	4326PHCT-ND	12.48	114.37	4326PHTB-ND	977.40	3995.50	6207.00	5858.00/M	2222 123 17689

ASM 021

Axial Standard Miniature Electrolytic Capacitors

FEATURES:

• Polarized aluminum electrolytic capacitors, non-solid • Axial leads, cylindrical aluminum case, insulated with a blue sleeve • Charge and discharge proof • Case Ø10mm x 30mm to 21mm x 40mm with pressure relief • Taped versions up to case Ø15mm x 30mm available for automatic insertion • Miniaturized, high CV-product per unit volume

APPLICATIONS:

• General purpose, industrial, automotive, audio-video • Coupling, decoupling, smoothing, filtering, buffering and timing • Portable and mobile equipment (small size, low mass) • Low mounting height boards, vibration and shock resistant.

Dim. in mm

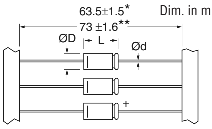

Case size 10 x 30 and above are bulk
Form BA: Taped in box (ammo pack)
*Case ØD x L =
4.5 x 10 to 8 x 11mm
**Case ØD x L =
6.5 x 18 to 10 x 25mm

DESCRIPTION	VALUE	
Case sizes (ØD$_{nom}$ x L$_{nom}$ in mm)	4.5 x 10 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C$_R$	0.47 ~ 15,000µF	
Tolerance on C$_R$	±20%	
Rated voltage range, U$_R$	6.3 ~ 100V	
Category temperature range	–40°C ~ 85°C	
Endurance test at 85°C: U$_R$ = 6.3 ~ 25V U$_R$ = 40 ~ 100V	1,000 hours 2,000 hours	5,000 hours 5,000 hours
Useful life at 85°C	2,500 hours	8,000 hours
Useful life at 40°C, 1.4 x I$_R$ applied	70,000 hours	200,000 hours
Shelf life at 0 V, 85°C	500 hours	500 hours
Based on sectional specification: U$_R$ = 6.3 ~ 25V U$_R$ = 40 ~ 100V	IEC 384-4/CECC 30300 GP grade LL grade	IEC384-4/CECC 30300 LL grade LL grade
Climatic category IEC 68 (DIN 40040)	40/085/56 (GPF)	

WV (VDC)	Cap. (µF)	Leakage Curr. (µA)	tan δ	Ripple Curr. (mA)	Dimensions (mm)			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Box Pricing				Vishay Part No.
					L	D	d		1	10	100		500	1,000	5,000	10,000	
6.3	470	22	0.250	260	11	8.0	0.6	4000PHCT-ND◆	.79	6.78	53.11	4000PHTB-ND◆	217.00	337.00	318.00/M	294.00/M	2222 021 33471
	1000	42	0.250	440	18	8.0	0.8	4001PHCT-ND◆	.91	7.77	60.87	4001PHTB-ND◆	249.00	387.00	365.00/M	336.00/M	2222 021 33102
	2200	87	0.290	710	25	10	0.8	4002PHCT-ND◆	1.32	11.31	88.60	4002PHTB-ND◆	362.00	563.00	531.00/M	490.00/M	2222 021 90589
10	100	10	0.200	100	10	4.5	0.6	4003PHCT-ND◆	.56	4.83	37.84	4003PHTB-ND◆	—	240.00	227.00/M	209.00/M	2222 021 34101
	220	17	0.200	160	10	6.0	0.6	4004PHCT-ND◆	.62	5.31	41.60	4004PHTB-ND◆	—	264.00	249.00/M	230.00/M	2222 021 34221
	330	24	0.200	230	11	8.0	0.6	4005PHCT-ND◆	.79	6.78	53.11	4005PHTB-ND◆	217.00	337.00	318.00/M	294.00/M	2222 021 34331
	470	32	0.200	310	18	6.5	0.8	4006PHCT-ND◆	.79	6.78	53.11	4006PHTB-ND◆	—	337.00	318.00/M	294.00/M	2222 021 34471
	1000	64	0.200	550	18	10	0.8	4008PHCT-ND◆	1.04	8.94	70.03	4008PHTB-ND◆	286.50	445.00	420.00/M	387.00/M	2222 021 34102
	1500	94	0.230	690	25	10	0.8	4009PHCT-ND	1.32	11.31	88.60	4009PHTB-ND	362.00	563.00	531.00/M	490.00/M	2222 021 90525
	2200	136	0.250	800	30	12.5	0.8	4011PHBK-ND◆†	1.84	15.81	123.85	—	506.25	786.56	742.26/M	684.42/M	2222 021 14222
	3300	202	0.270	1000	30	12.5	0.8	4012PHBK-ND◆†	2.02	17.28	135.36	—	553.33	859.70	811.27/M	748.06/M	2222 021 14332
	4700	286	0.290	1180	30	15	0.8	4013PHBK-ND◆†	2.35	20.10	157.45	—	643.63	1000.00	943.67/M	870.13/M	2222 021 14472

◆ ***RoHS Compliant*** † Bulk

(Continued)

ASM 021 Axial Standard Miniature Electrolytic Capacitors *(Cont.)*

WV	Cap.	Leakage		Ripple	Dimensions (mm)			Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Box Pricing				Vishay
(VDC)	(µF)	Curr. (µA)	tan δ	Curr. (mA)	L	D	d	Part No.	1	10	100	Part No.	500	1,000	5,000	10,000	Part No.
16	68	11	0.160	90	10	4.5	0.6	4017PHCT-ND◆	.56	4.83	37.84	4017PHTB-ND◆	—	240.00	227.00/M	209.00/M	2222 021 35689
	150	18	0.160	140	10	6.0	0.6	4018PHCT-ND◆	.62	5.31	41.60	4018PHTB-ND◆	—	264.00	249.00/M	230.00/M	2222 021 35151
	220	25	0.160	210	11	8.0	0.6	4019PHCT-ND◆	.79	6.78	53.11	4019PHTB-ND◆	217.00	337.00	318.00/M	294.00/M	2222 021 35221
	330	36	0.160	290	18	6.5	0.8	4020PHCT-ND◆	.79	6.78	53.11	4020PHTB-ND◆	—	337.00	318.00/M	294.00/M	2222 021 35331
	470	49	0.160	380	18	8.0	0.8	4021PHCT-ND◆	.91	7.77	60.87	4021PHTB-ND◆	249.00	387.00	365.00/M	336.00/M	2222 021 35471
	680	69	0.160	500	18	10	0.8	4022PHCT-ND◆	1.04	8.94	70.03	4022PHTB-ND◆	286.50	445.00	420.00/M	387.00/M	2222 021 35681
	1000	100	0.160	660	25	10	0.8	4023PHCT-ND◆	1.32	11.31	88.60	4023PHTB-ND◆	362.00	563.00	531.00/M	490.00/M	2222 021 90518
	1000	100	0.160	700	30	10	0.8	4024PHBK-ND◆†	1.59	13.62	106.69	—	436.13	677.61	639.44/M	589.61/M	2222 021 15102
	2200	216	0.210	890	30	12.5	0.8	4026PHBK-ND◆†	2.01	17.19	134.66	—	550.44	855.22	807.05/M	744.16/M	2222 021 15222
	3300	321	0.230	1130	30	15	0.8	4027PHBK-ND◆†	2.39	20.46	160.27	—	655.15	1017.91	960.57/M	885.72/M	2222 021 15332
	4700	455	0.250	1410	30	18	0.8	4028PHBK-ND◆†	2.87	24.63	192.94	—	788.68	1225.37	1156.34/M	1066.24/M	2222 021 15472
	6800	656	0.300	1780	38	18	0.8	4029PHBK-ND◆†	3.61	30.90	242.05	—	989.45	1537.31	1450.71/M	1337.67/M	2222 021 15682
	10000	964	0.360	2170	38	21	0.8	4030PHBK-ND◆†	4.72	40.44	316.78	—	1294.94	2011.93	1898.59/M	1750.65/M	2222 021 15103
25	47	11	0.140	80	10	4.5	0.6	4031PHCT-ND◆	.56	4.83	37.84	4031PHTB-ND◆	—	240.00	227.00/M	209.00/M	2222 021 36479
	100	19	0.140	150	10	6.0	0.6	4032PHCT-ND◆	.62	5.31	41.60	4032PHTB-ND◆	—	264.00	249.00/M	230.00/M	2222 021 36101
	150	27	0.140	190	11	8.0	0.6	4033PHCT-ND	.79	6.78	53.11	4033PHTB-ND	217.00	337.00	318.00/M	294.00/M	2222 021 90535
	150	27	0.140	210	18	6.5	0.8	4034PHCT-ND◆	.79	6.78	53.11	4034PHTB-ND◆	—	337.00	318.00/M	294.00/M	2222 021 36151
	220	37	0.140	250	18	6.5	0.8	4035PHCT-ND◆	.79	6.78	53.11	4035PHTB-ND◆	—	337.00	318.00/M	294.00/M	2222 021 36221
	330	54	0.140	340	18	8.0	0.8	4036PHCT-ND◆	.91	7.77	60.87	4036PHTB-ND◆	249.00	387.00	365.00/M	336.00/M	2222 021 36331
	470	75	0.140	450	18	10	0.8	4037PHCT-ND◆	1.04	8.94	70.03	4037PHTB-ND◆	286.50	445.00	420.00/M	387.00/M	2222 021 36471
	680	106	0.140	560	25	10	0.8	4038PHCT-ND◆	1.32	11.31	88.60	4038PHTB-ND◆	362.00	563.00	531.00/M	490.00/M	2222 021 90528
	1000	154	0.140	720	30	12.5	0.8	4040PHBK-ND◆†	1.76	15.09	118.21	—	483.20	750.74	708.45/M	653.25/M	2222 021 16102
	1500	229	0.170	790	30	12.5	0.8	4041PHBK-ND†	2.02	17.28	135.36	—	553.33	859.70	811.27/M	748.06/M	2222 021 16152
	2200	334	0.190	1030	30	15	0.8	4042PHBK-ND◆†	2.37	20.34	159.33	—	651.31	1011.94	954.93/M	880.52/M	2222 021 16222
	3300	499	0.210	1310	30	18	0.8	4043PHBK-ND◆†	2.93	25.11	196.70	—	804.05	1249.25	1178.88/M	1087.02/M	2222 021 16332
	4700	709	0.230	1680	38	18	0.8	4328PHBK-ND◆†	3.64	31.23	244.64	—	1000.02	1553.72	1466.20/M	1748.05/M	2222 021 90062
	6800	1024	0.280	2070	38	21	0.8	4045PHBK-ND◆†	4.71	40.38	316.31	—	1293.01	2008.95	1895.78/M	1748.05/M	2222 021 16682
40	22	9.0	0.110	60	10	4.5	0.6	4046PHCT-ND◆	.56	4.83	37.84	4046PHTB-ND◆	—	240.00	227.00/M	209.00/M	2222 021 37229
	47	15	0.110	110	10	6.0	0.6	4047PHCT-ND◆	.62	5.31	41.60	4047PHTB-ND◆	—	264.00	249.00/M	230.00/M	2222 021 37479
	100	28	0.110	170	11	8.0	0.6	4048PHCT-ND◆	.79	6.78	53.11	4048PHTB-ND◆	217.00	337.00	318.00/M	294.00/M	2222 021 90538
	100	28	0.110	190	18	6.5	0.8	4049PHCT-ND◆	.79	6.78	53.11	4049PHTB-ND◆	—	337.00	318.00/M	294.00/M	2222 021 37101
	150	40	0.110	250	18	8.0	0.8	4050PHCT-ND◆	.91	7.77	60.87	4050PHTB-ND◆	249.00	387.00	365.00/M	336.00/M	2222 021 37151
	220	57	0.110	330	18	10	0.8	4051PHCT-ND◆	1.04	8.94	70.03	4051PHTB-ND◆	286.50	445.00	420.00/M	387.00/M	2222 021 37221
	330	83	0.110	430	25	10	0.8	4052PHCT-ND◆	1.32	11.31	88.60	4052PHTB-ND◆	362.00	563.00	531.00/M	490.00/M	2222 021 37331
	470	117	0.110	520	25	10	0.8	4053PHCT-ND◆	1.32	11.31	88.60	4053PHTB-ND◆	362.00	563.00	531.00/M	490.00/M	2222 021 90515
	470	117	0.120	570	30	10	0.8	4054PHBK-ND◆†	1.53	13.08	102.46	—	418.84	650.74	614.09/M	566.24/M	2222 021 17471
	680	167	0.120	620	30	12.5	0.8	4055PHBK-ND◆†	1.72	14.73	115.39	—	471.67	732.83	691.55/M	637.67/M	2222 021 17681
	1000	244	0.120	770	30	12.5	0.8	4056PHBK-ND†	2.19	18.81	147.35	—	602.32	935.82	883.10/M	814.29/M	2222 021 17102
	1500	364	0.150	930	30	15	0.8	4057PHBK-ND◆†	2.37	20.28	158.86	—	649.39	1008.95	952.12/M	877.93/M	2222 021 17152
	2200	532	0.170	1200	30	18	0.8	4058PHBK-ND◆†	2.96	25.35	198.58	—	811.74	1261.19	1190.14/M	1097.41/M	2222 021 17222
	3300	796	0.190	1550	38	18	0.8	4059PHBK-ND◆†	3.88	33.24	260.38	—	1064.38	1653.72	1560.57/M	1438.96/M	2222 021 17332
	4700	1132	0.210	1880	38	21	0.8	4060PHBK-ND◆†	5.18	44.43	348.04	—	1422.70	2210.44	2085.92/M	1923.38/M	2222 021 17472
63	0.47	4.2	0.090	8.0	10	4.5	0.6	4061PHCT-ND◆	.51	4.41	34.55	4061PHTB-ND◆	—	219.00	207.00/M	191.00/M	2222 021 38477
	1.0	4.4	0.090	12	10	4.5	0.6	4062PHCT-ND◆	.51	4.41	34.55	4062PHTB-ND◆	—	219.00	207.00/M	191.00/M	2222 021 38108
	2.2	4.8	0.090	21	10	4.5	0.6	4063PHCT-ND◆	.51	4.41	34.55	4063PHTB-ND◆	—	219.00	207.00/M	191.00/M	2222 021 38228
	3.3	5.2	0.090	25	10	4.5	0.6	4064PHCT-ND◆	.51	4.41	34.55	4064PHTB-ND◆	—	219.00	207.00/M	191.00/M	2222 021 38338
	4.7	5.8	0.090	31	10	4.5	0.6	4065PHCT-ND◆	.51	4.41	34.55	4065PHTB-ND◆	—	219.00	207.00/M	191.00/M	2222 021 38478
	10	7.8	0.080	50	10	4.5	0.6	4066PHCT-ND◆	.51	4.41	34.55	4066PHTB-ND◆	—	219.00	207.00/M	191.00/M	2222 021 38109
	15	9.5	0.080	55	10	4.5	0.6	4067PHCT-ND◆	.56	4.83	37.84	4067PHTB-ND◆	—	240.00	227.00/M	209.00/M	2222 021 38159
	22	12	0.080	90	10	6.0	0.6	4068PHCT-ND◆	.56	4.83	37.84	4068PHTB-ND◆	—	240.00	227.00/M	209.00/M	2222 021 38229
	33	16	0.080	100	10	6.0	0.6	4069PHCT-ND◆	.62	5.31	41.60	4069PHTB-ND◆	—	264.00	249.00/M	230.00/M	2222 021 38339
	47	22	0.080	140	11	8.0	0.6	4070PHCT-ND◆	.79	6.78	53.11	4070PHTB-ND◆	217.00	337.00	318.00/M	294.00/M	2222 021 90542
	47	22	0.080	150	18	6.5	0.8	4071PHCT-ND◆	.79	6.78	53.11	4071PHTB-ND◆	—	337.00	318.00/M	294.00/M	2222 021 38479
	68	30	0.080	160	11	8.0	0.6	4072PHCT-ND◆	.79	6.78	53.11	4072PHTB-ND◆	217.00	337.00	318.00/M	294.00/M	2222 021 90545
	68	30	0.080	170	18	6.5	0.8	4073PHCT-ND	.79	6.78	53.11	4073PHTB-ND	—	337.00	318.00/M	294.00/M	2222 021 38689
	100	42	0.080	250	18	8.0	0.8	4074PHCT-ND◆	.91	7.77	60.87	4074PHTB-ND◆	249.00	387.00	365.00/M	336.00/M	2222 021 38101
	150	61	0.080	320	18	10	0.8	4075PHCT-ND◆	1.04	8.94	70.03	4075PHTB-ND◆	286.50	445.00	420.00/M	387.00/M	2222 021 38151
	220	88	0.080	430	25	10	0.8	4076PHCT-ND◆	1.32	11.31	88.60	4076PHTB-ND◆	362.00	563.00	531.00/M	490.00/M	2222 021 90512
	220	88	0.080	480	30	10	0.8	4077PHBK-ND◆†	1.52	13.02	101.99	—	416.92	647.76	611.27/M	563.64/M	2222 021 18221
	330	129	0.080	530	30	12.5	0.8	4078PHBK-ND◆†	1.70	14.61	114.45	—	467.83	726.86	685.92/M	632.47/M	2222 021 18331
	470	182	0.080	630	30	12.5	0.8	4079PHBK-ND◆†	1.92	16.47	129.02	—	527.39	819.40	773.24/M	712.99/M	2222 021 18471
	680	261	0.080	830	30	15	0.8	4080PHBK-ND◆†	2.28	19.53	152.99	—	625.37	971.64	916.90/M	845.46/M	2222 021 18681
	1000	382	0.080	1120	30	18	0.8	4081PHBK-ND◆†	2.82	24.21	189.65	—	775.23	1204.47	1136.62/M	1048.06/M	2222 021 18102
	1500	571	0.110	1350	38	18	0.8	4082PHBK-ND◆†	3.68	31.50	246.75	—	1008.67	1567.16	1478.88/M	1363.64/M	2222 021 18152
	2200	836	0.130	1780	38	21	0.8	4083PHBK-ND◆†	4.89	41.88	328.06	—	1341.05	2083.57	1966.20/M	1812.99/M	2222 021 18222
100	1.0	4.6	0.080	14	10	4.5	0.6	4084PHCT-ND	.51	4.41	34.55	4084PHTB-ND	—	219.00	207.00/M	191.00/M	2222 021 39108
	2.2	5.3	0.080	20	10	4.5	0.6	4085PHCT-ND◆	.51	4.41	34.55	4085PHTB-ND◆	—	219.00	207.00/M	191.00/M	2222 021 39228
	4.7	7.0	0.080	30	10	4.5	0.6	4086PHCT-ND	.56	4.83	37.84	4086PHTB-ND	—	240.00	227.00/M	209.00/M	2222 021 39478
	10	10	0.080	65	10	6.0	0.6	4087PHCT-ND◆	.60	5.10	39.95	4087PHTB-ND◆	—	254.00	239.00/M	221.00/M	2222 021 39109
	15	13	0.080	77	11	8.0	0.6	4088PHCT-ND	.79	6.78	53.11	4088PHTB-ND	217.00	337.00	318.00/M	294.00/M	2222 021 90548
	15	13	0.080	85	18	6.5	0.8	4089PHCT-ND◆	.79	6.78	53.11	4089PHTB-ND◆	—	337.00	318.00/M	294.00/M	2222 021 39159
	22	17	0.080	95	11	8.0	0.6	4090PHCT-ND◆	.79	6.78	53.11	4090PHTB-ND◆	217.00	337.00	318.00/M	294.00/M	2222 021 90552
	22	17	0.080	100	18	6.5	0.8	4091PHCT-ND	.79	6.78	53.11	4091PHTB-ND	—	337.00	318.00/M	294.00/M	2222 021 39229
	33	24	0.080	120	18	6.5	0.8	4092PHCT-ND	.79	6.78	53.11	4092PHTB-ND	—	337.00	318.00/M	294.00/M	2222 021 39339
	47	32	0.080	160	18	8.0	0.8	4093PHCT-ND◆	.91	7.77	60.87	4093PHTB-ND◆	249.00	387.00	365.00/M	336.00/M	2222 021 39479
	68	45	0.080	220	18	10	0.8	4094PHCT-ND◆	1.04	8.94	70.03	4094PHTB-ND◆	286.50	445.00	420.00/M	387.00/M	2222 021 39689
	100	64	0.080	300	25	10	0.8	4095PHCT-ND◆	1.32	11.31	88.60	4095PHTB-ND◆	362.00	563.00	531.00/M	490.00/M	2222 021 90532
	100	64	0.070	360	30	10	0.8	4096PHBK-ND◆†	1.55	13.32	104.34	—	426.52	662.68	625.36/M	576.63/M	2222 021 19101
	220	136	0.080	460	30	12.5	0.8	4098PHBK-ND◆†	1.97	16.92	132.54	—	541.80	841.79	794.37/M	732.47/M	2222 021 19221
	330	202	0.090	580	30	15	0.8	4099PHBK-ND◆†	2.43	20.85	163.33	—	667.64	1037.31	978.88/M	902.60/M	2222 021 19331
	470	286	0.090	740	30	18	0.8	4100PHBK-ND◆†	3.01	25.83	202.34	—	827.11	1285.07	1212.68/M	1118.19/M	2222 021 19471
	1000	604	0.100	1260	38	21	0.8	4102PHBK-ND◆†	5.22	44.73	350.39	—	1432.31	2225.36	2100.00/M	1936.37/M	2222 021 19102

◆ ***RoHS Compliant*** † Bulk

AHT 118 Axial High Temperature Electrolytic Capacitors

FEATURES:
- Polarized aluminum electrolytic capacitors, non-solid
- Axial leads, cylindrical aluminum case, insulated with a blue sleeve
- Case Ø10mm x 30mm to 21mm x 40mm with pressure relief
- Taped versions up to case Ø15mm x 30 mm available for automatic insertion
- Charge and discharge proof
- Extra long useful life: 4,000 hours at 125°C, high reliability
- Extended temperature range: 125°C (usable up to 150°C)
- Miniaturized, high CV-product per unit volume

APPLICATIONS:
- Automotive, industrial and telecommunication
- Smoothing, filtering, coupling, decoupling, timing
- For use after very long storage (10 years) without voltage applied
- Portable and mobile equipment (small size, low mass)
- Low mounting height boards, vibration and shock resistant
- Outdoor applications, e.g. aerial amplifiers

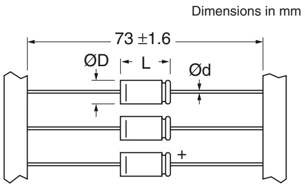

Case size 10mm x 30mm and above are bulk
Form BA: Taped in box (ammopack)
Case ØD x L = 6.5mm x 18mm to 10mm x 25mm

DESCRIPTION	VALUE	
Case sizes ($ØD_{nom}$ x L_{nom} in mm)	6.5 x 18 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C_R	1 to 10,000 µF	
Tolerance on C_R	±20%	
Rated voltage range, U_R	6.3 ~ 200V	
Category temperature range	-40°C ~ 125°C	-55°C ~ 125°C
Endurance test at 150°C, with no I_R applied	500 hours	1,000 hours
Endurance test at 125°C	2,000 hours	3,000 hours
Useful life at 125°C	4,000 hours	4,000 hours
Useful life at 40°C, 1.8 x I_R applied	500,000 hours	500,000 hours
Shelf life at 0 V, 125°C U_R = 6.3 to 63V U_R = 100 and 200 V	500 hours 100 hours	
Based on sectional specification	IEC 384-4/CECC 30300, LL grade	
Climatic category IEC 68 (DIN 40040)	40/125/56 (GKD)	55/125/56 (FKD)

WV	Cap.	Leakage		Ripple	Dimensions (mm)			Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Box Pricing				Vishay
(VDC)	(µF)	Curr. (µA)	tan δ	Curr. (mA)	L	D	d	Part No.	1	10	100	Part No.	500	1,000	5,000	10,000	Part No.
6.3	1000	42	0.500	251	18	10	0.8	4103PHCT-ND◆	2.23	19.08	149.46	4103PHTB-ND◆	611.00	949.00	896.00/M	826.00/M	2222 118 33102
	1500	61	0.500	352	25	10	0.8	4104PHCT-ND	2.33	19.98	156.51	4104PHTB-ND	640.00	994.00	938.00/M	865.00/M	2222 118 90503
10	220	20	0.350	109	18	6.5	0.8	4105PHCT-ND	2.07	17.76	139.12	4105PHTB-ND	—	884.00	834.00/M	769.00/M	2222 118 34221
	330	24	0.350	150	18	8.0	0.8	4106PHCT-ND	2.12	18.21	142.65	4106PHTB-ND◆	583.00	906.00	855.00/M	788.00/M	2222 118 34331
	470	32	0.350	179	18	8.0	0.8	4107PHCT-ND	2.12	18.21	142.65	4107PHTB-ND	583.00	906.00	855.00/M	788.00/M	2222 118 34471
	2200	136	0.400	634	30	12.5	0.8	4111PHBK-ND◆†	3.23	27.66	216.67	—	885.71	1376.11	1298.59/M	1197.41/M	2222 118 14222
	4700	286	0.460	1035	30	18	0.8	4113PHBK-ND◆†	4.94	42.30	331.35	—	1354.50	2104.47	1985.92/M	1831.17/M	2222 118 14472
16	330	36	0.250	204	18	10	0.8	4117PHCT-ND◆	2.23	19.08	149.46	4117PHTB-ND◆	611.00	949.00	896.00/M	826.00/M	2222 118 35331
	470	49	0.250	243	18	10	0.8	4118PHCT-ND◆	2.23	19.08	149.46	4118PHTB-ND◆	611.00	949.00	896.00/M	826.00/M	2222 118 35471
	1000	100	0.220	557	30	12.5	0.8	4120PHBK-ND◆†	2.74	23.46	183.77	—	751.22	1167.16	1101.41/M	1015.59/M	2222 118 15102
	2200	215	0.290	790	30	15	0.8	4122PHBK-ND◆†	3.92	33.63	263.44	—	1076.87	1673.13	1578.88/M	1455.85/M	2222 118 15222
	4700	455	0.340	1363	38	18	0.8	4124PHBK-ND◆†	6.41	54.90	430.05	—	1757.96	2731.33	2577.47/M	2376.63/M	2222 118 15472
25	100	20	0.180	102	18	6.5	0.8	4126PHCT-ND◆	2.07	17.76	139.12	4126PHTB-ND◆	—	884.00	834.00/M	769.00/M	2222 118 36101
	220	37	0.180	196	18	10	0.8	4127PHCT-ND◆	2.23	19.08	149.46	4127PHTB-ND◆	611.00	949.00	896.00/M	826.00/M	2222 118 36221
	330	54	0.180	274	25	10	0.8	4128PHCT-ND◆	2.33	19.98	156.51	4128PHTB-ND◆	640.00	994.00	938.00/M	865.00/M	2222 118 36331
	470	75	0.180	327	25	10	0.8	4129PHCT-ND◆	2.33	19.98	156.51	4129PHTB-ND◆	640.00	994.00	938.00/M	865.00/M	2222 118 90509
	470	75	0.180	366	30	10	0.8	4130PHBK-ND◆†	2.60	22.29	174.61	—	713.75	1108.95	1046.48/M	964.94/M	2222 118 16471
	1000	154	0.240	531	30	12.5	0.8	4132PHBK-ND◆†	3.41	29.25	229.13	—	936.62	1455.22	1373.24/M	1266.24/M	2222 118 16102
	2200	334	0.260	919	30	18	0.8	4134PHBK-ND◆†	5.27	45.15	353.68	—	1445.76	2246.26	2119.72/M	1954.55/M	2222 118 16222
	3300	499	0.260	1280	38	18	0.8	4135PHBK-ND†	6.93	59.40	465.30	—	1902.06	2955.21	2788.74/M	2571.43/M	2222 118 16332
	4700	709	0.280	1464	38	21	0.8	4136PHBK-ND◆†	9.11	78.09	611.71	—	2500.53	3885.06	3666.20/M	3380.52/M	2222 118 16472
40	47	20	0.110	89.8	18	6.5	0.8	4137PHCT-ND◆	2.07	17.76	139.12	4137PHTB-ND◆	—	884.00	834.00/M	769.00/M	2222 118 37479
	100	28	0.110	147	18	8.0	0.8	4138PHCT-ND◆	2.12	18.21	142.65	4138PHTB-ND◆	583.00	906.00	855.00/M	788.00/M	2222 118 37101
	150	40	0.110	207	18	10	0.8	4139PHCT-ND◆	2.23	19.08	149.46	4139PHTB-ND◆	611.00	949.00	896.00/M	826.00/M	2222 118 37151
	220	57	0.100	338	30	10	0.8	4141PHBK-ND◆†	2.55	21.87	171.32	—	700.30	1088.05	1026.76/M	946.76/M	2222 118 17221
	330	83	0.100	484	30	12.5	0.8	4142PHBK-ND◆†	2.90	24.87	194.82	—	796.37	1237.31	1167.61/M	1076.63/M	2222 118 17331
	470	117	0.110	522	30	12.5	0.8	4143PHBK-ND◆†	3.35	28.68	224.66	—	918.37	1426.86	1346.48/M	1241.56/M	2222 118 17471
	1000	244	0.130	852	30	18	0.8	4145PHBK-ND◆†	5.03	43.11	337.70	—	1380.43	2144.77	2023.95/M	1866.24/M	2222 118 17102
63	1.0	20	0.070	16.4	18	6.5	0.8	4148PHCT-ND	2.07	17.76	139.12	4148PHTB-ND	—	884.00	834.00/M	769.00/M	2222 118 38108
	2.2	20	0.070	24.3	18	6.5	0.8	4149PHCT-ND	2.07	17.76	139.12	4149PHTB-ND	—	884.00	834.00/M	769.00/M	2222 118 38228
	4.7	20	0.070	35.6	18	6.5	0.8	4150PHCT-ND	2.07	17.76	139.12	4150PHTB-ND	—	884.00	834.00/M	769.00/M	2222 118 38478
	10	20	0.070	51.9	18	6.5	0.8	4151PHCT-ND◆	2.07	17.76	139.12	4151PHTB-ND◆	—	884.00	834.00/M	769.00/M	2222 118 38109
	22	20	0.070	77	18	6.5	0.8	4152PHCT-ND◆	2.07	17.76	139.12	4152PHTB-ND◆	—	884.00	834.00/M	769.00/M	2222 118 38229
	47	22	0.070	126	18	8.0	0.8	4153PHCT-ND◆	2.12	18.21	142.65	4153PHTB-ND◆	583.00	906.00	855.00/M	788.00/M	2222 118 38479
	100	42	0.070	243	25	10	0.8	4154PHCT-ND◆	2.33	19.98	156.51	4154PHTB-ND◆	640.00	994.00	938.00/M	865.00/M	2222 118 90514
	100	42	0.070	262	30	10	0.8	4155PHBK-ND◆†	2.56	21.90	171.55	—	701.26	1089.55	1028.17/M	948.06/M	2222 118 18101
	150	61	0.070	415	30	12.5	0.8	4156PHBK-ND◆†	2.92	25.05	196.23	—	802.13	1246.26	1176.06/M	1084.42/M	2222 118 18151
	220	87	0.080	454	30	12.5	0.8	4157PHBK-ND◆†	3.43	29.43	230.54	—	942.38	1464.17	1381.69/M	1274.03/M	2222 118 18221
	330	129	0.090	544	30	15	0.8	4158PHBK-ND◆†	4.24	36.36	284.82	—	1164.29	1808.95	1707.05/M	1574.03/M	2222 118 18331
	470	182	0.090	695	30	18	0.8	4159PHBK-ND◆†	5.27	45.15	353.68	—	1445.76	2246.26	2119.72/M	1954.55/M	2222 118 18471
	680	261	0.090	971	38	18	0.8	4160PHBK-ND◆†	6.83	58.56	458.72	—	1875.16	2913.42	2749.30/M	2535.07/M	2222 118 18681
	1000	383	0.100	1161	38	21	0.8	4161PHBK-ND◆†	9.16	78.48	614.76	—	2513.02	3904.46	3684.51/M	3397.40/M	2222 118 18102
100	10	20	0.070	52	18	6.5	0.8	4163PHCT-ND◆	2.07	17.76	139.12	4163PHTB-ND◆	—	884.00	834.00/M	769.00/M	2222 118 39109
	22	20	0.070	91	18	8.0	0.8	4164PHCT-ND◆	2.12	18.21	142.65	4164PHTB-ND◆	583.00	906.00	855.00/M	788.00/M	2222 118 39229
	33	24	0.070	140	25	10	0.8	4165PHCT-ND◆	2.33	19.98	156.51	4165PHTB-ND◆	640.00	994.00	938.00/M	865.00/M	2222 118 39339
	47	33	0.070	170	25	10	0.8	4166PHCT-ND◆	2.33	19.98	156.51	4166PHTB-ND◆	640.00	994.00	938.00/M	865.00/M	2222 118 90536
	47	33	0.080	178	30	10	0.8	4167PHBK-ND◆†	2.71	23.22	181.89	—	743.53	1155.22	1090.14/M	1005.20/M	2222 118 19479
	100	64	0.090	303	30	12.5	0.8	4169PHBK-ND◆†	3.50	30.03	235.24	—	961.60	1494.02	1409.86/M	1300.00/M	2222 118 19101
	220	136	0.100	481	30	18	0.8	4171PHBK-ND◆†	5.32	45.57	356.97	—	1459.20	2267.15	2139.44/M	1972.73/M	2222 118 19221
	470	286	0.100	833	38	21	0.8	4173PHBK-ND†	9.07	77.70	608.65	—	2488.04	3865.65	3647.89/M	3363.64/M	2222 118 19471
200	10	20	0.060	85	25	10	0.8	4176PHCT-ND◆	2.33	19.98	156.51	4176PHTB-ND◆	640.00	994.00	938.00/M	865.00/M	2222 118 90543
	15	22	0.046	129	30	10	0.8	4177PHBK-ND◆†	2.52	21.63	169.44	—	692.62	1076.11	1015.50/M	936.37/M	2222 118 92159
	22	31	0.046	198	30	12.5	0.8	4178PHBK-ND◆†	2.96	25.35	198.58	—	811.74	1261.19	1190.14/M	1097.41/M	2222 118 92229
	33	44	0.046	242	30	15	0.8	4179PHBK-ND◆†	3.63	31.14	243.93	—	997.14	1549.25	1461.98/M	1348.06/M	2222 118 92339
	47	61	0.046	317	30	18	0.8	4180PHBK-ND◆†	4.50	38.55	301.98	—	1234.42	1917.90	1809.86/M	1668.83/M	2222 118 92479
	100	124	0.046	551	38	21	0.8	4182PHBK-ND◆†	7.78	66.72	522.64	—	2136.45	3319.39	3132.40/M	2888.31/M	2222 118 92101

† Bulk   ◆ ***RoHS Compliant***

AML 138 Axial Miniature Long-Life Electrolytic Capacitors

FEATURES:

• Polarized aluminum electrolytic capacitors, non-solid • Axial leads, cylindrical aluminum case, insulated with a blue sleeve (case Ø6.3mm x 12.7mm and 7.7mm x 12.7mm are molded with flame retardant plastic material) • Case Ø10mm x 30mm to 21mm x 40mm with pressure relief • Taped versions up to case Ø15mm x 30 mm available for automatic insertion • Charge and discharge proof • Long useful life: 2,000 to 10,000 hours at 105°C, high reliability • High ripple current capability • Miniaturized, high CV-product per unit volume

APPLICATIONS:

• Industrial, automotive, EDP and telecommunication • Smoothing, filtering, buffering in SMPS; coupling, decoupling, timing • Portable and mobile equipment (small size, low mass) • Standby applications • Low mounting height boards • Vibration and shock resistant

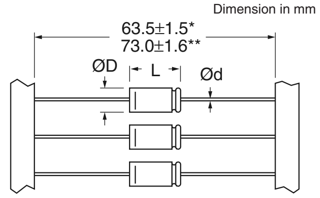

Case size 10mm x 30mm and above are bulk
Form BA: Taped in box (ammopack)
*Case ØD x L = 6.3mm x 12.7mm and 7.7mm x 12.7 mm
**Case ØD x L = 6.5mm x 18mm and 10mm x 25 mm

DESCRIPTION	VALUE	
Case sizes ($ØD_{nom}$ x L_{nom} in mm)	6.3 x 12.7 ~ 10 x 25	10 x 30 ~ 21 x 40
Rated capacitance range, C_R	1.0 ~ 15,000 µF	
Tolerance on C_R	±20%	
Rated voltage range, U_R	6.3 ~ 100V	
Category temperature range	-40°C ~ 105°C	
Endurance test at 105°C	1,000 hours	5,000 hours
Useful life at 105°C	2,000 hours	10,000 hours
Useful life at 40°C, I_R applied	1.3 x I_R applied: 200,000 hours	1.8 x I_R applied: 500,000 hours
Shelf life at 0 V, 105°C	500 hours	
Based on sectional specification	IEC 384-4/CECC 30300	
Climatic category IEC 68 (DIN 40040)	40/105/56 (GMF)	

WV (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ	Ripple Current (mA)	Dimensions (mm)			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Box Pricing		Vishay Part No.
					L	D	d		1	10	100		500	1,000	
6.3	100	16	0.240	99	12.7	6.3	0.6	4183PHCT-ND◆	1.50	12.87	100.82	4183PHTB-ND◆	—	640.00	2222 138 33101
	220	31	0.240	160	12.7	7.7	0.6	4184PHCT-ND	1.66	14.19	111.16	4184PHTB-ND	454.50	706.00	2222 138 33221
	470	22	0.240	250	18	6.5	0.8	4185PHCT-ND	1.30	11.10	86.95	4185PHTB-ND	—	552.00	2222 138 33471
	1000	42	0.240	430	18	10	0.8	4186PHCT-ND◆	1.76	15.09	118.21	4186PHTB-ND◆	483.00	751.00	2222 138 33102
	2200	87	0.290	640	25	10	0.8	4187PHCT-ND	2.12	18.21	142.65	4187PHTB-ND	583.00	906.00	2222 138 33222
10	150	33	0.200	140	12.7	7.7	0.6	4188PHCT-ND	1.66	14.19	111.16	4188PHTB-ND	454.50	706.00	2222 138 34151
	220	17	0.200	190	18	6.5	0.8	4189PHCT-ND◆	1.30	11.10	86.95	4189PHTB-ND◆	—	552.00	2222 138 34221
	470	32	0.200	300	18	8.0	0.8	4190PHCT-ND◆	1.40	12.00	94.00	4190PHTB-ND◆	384.50	597.00	2222 138 34471
	1000	64	0.200	520	25	10	0.8	4191PHCT-ND◆	2.12	18.21	142.65	4191PHTB-ND◆	583.00	906.00	2222 138 34102
	2200	140	0.270	750	30	12.5	0.8	4193PHBK-ND◆†	2.21	18.90	148.05	—	605.20	940.29	2222 138 14222
	3300	200	0.280	990	30	15	0.8	4194PHBK-ND◆†	2.68	22.95	179.78	—	734.89	1141.79	2222 138 14332
	4700	290	0.310	1200	30	18	0.8	4195PHBK-ND◆†	3.27	28.05	219.73	—	898.19	1395.52	2222 138 14472
16	22	10	0.120	58	12.7	6.3	0.6	4199PHCT-ND◆	1.50	12.87	100.82	4199PHTB-ND◆	—	640.00	2222 138 35229
	47	18	0.160	83	12.7	6.3	0.6	4200PHCT-ND◆	1.50	12.87	100.82	4200PHTB-ND◆	—	640.00	2222 138 35479
	100	35	0.160	130	12.7	7.7	0.6	4201PHCT-ND◆	1.66	14.19	111.16	4201PHTB-ND◆	454.50	706.00	2222 138 35101
	220	25	0.160	230	18	8.0	0.8	4202PHCT-ND◆	1.40	12.00	94.00	4202PHTB-ND◆	384.50	597.00	2222 138 35221
	470	49	0.160	360	18	10	0.8	4203PHCT-ND◆	1.76	15.09	118.21	4203PHTB-ND◆	483.00	751.00	2222 138 35471
	1000	100	0.190	530	30	10	0.8	4204PHBK-ND◆†	1.90	16.32	127.84	—	522.59	811.94	2222 138 15102
	2200	210	0.210	950	30	15	0.8	4206PHBK-ND◆†	2.63	22.50	176.25	—	720.48	1119.40	2222 138 15222
	4700	450	0.280	1400	30	18	0.8	4208PHBK-ND◆†	4.13	35.37	277.07	—	1132.59	1759.69	2222 138 15472
	10000	960	0.350	2100	38	21	0.8	4210PHBK-ND◆†	7.31	62.64	490.68	—	2005.81	3116.40	2222 138 15103
25	10	8.0	0.090	46	12.7	6.3	0.6	4211PHCT-ND◆	1.50	12.87	100.82	4211PHTB-ND◆	—	640.00	2222 138 36109
	22	14	0.140	61	12.7	6.3	0.6	4212PHCT-ND◆	1.50	12.87	100.82	4212PHTB-ND◆	—	640.00	2222 138 36229
	33	20	0.140	74	12.7	6.3	0.6	4213PHCT-ND	1.50	12.87	100.82	4213PHTB-ND	—	640.00	2222 138 36339
	47	27	0.140	96	12.7	7.7	0.6	4214PHCT-ND◆	1.66	14.19	111.16	4214PHTB-ND◆	454.50	706.00	2222 138 36479
	100	19	0.130	160	18	6.5	0.8	4215PHCT-ND◆	1.30	11.10	86.95	4215PHTB-ND◆	—	552.00	2222 138 36101
	220	37	0.130	270	18	10	0.8	4216PHCT-ND◆	1.76	15.09	118.21	4216PHTB-ND◆	483.00	751.00	2222 138 36221
	470	75	0.130	440	25	10	0.8	4217PHCT-ND◆	2.12	18.21	142.65	4217PHTB-ND◆	583.00	906.00	2222 138 36471
	680	110	0.140	500	30	10	0.8	4218PHBK-ND◆†	1.88	16.08	125.96	—	514.90	800.00	2222 138 16681
	1000	150	0.140	670	30	12.5	0.8	4219PHBK-ND◆†	2.17	18.63	145.94	—	596.55	926.86	2222 138 16102
	1500	230	0.150	890	30	15	0.8	4220PHBK-ND◆†	2.64	22.59	176.96	—	723.36	1123.88	2222 138 16152
	2200	330	0.160	1200	30	18	0.8	4221PHBK-ND◆†	3.28	28.14	220.43	—	901.08	1399.99	2222 138 16222
	3300	500	0.170	1600	38	18	0.8	4222PHBK-ND◆†	4.31	36.93	289.29	—	1182.54	1837.30	2222 138 16332
	4700	710	0.200	1800	38	18	0.8	4223PHBK-ND◆†	5.60	47.97	375.77	—	1536.06	2386.56	2222 138 16472
	6800	1000	0.260	2100	38	21	0.8	4224PHBK-ND◆†	7.54	64.65	506.43	—	2070.17	3216.40	2222 138 16682
40	33	29	0.110	91	12.7	7.7	0.6	4225PHCT-ND◆	1.66	14.19	111.16	4225PHTB-ND◆	454.50	706.00	2222 138 37339
	47	15	0.100	120	18	6.5	0.8	4226PHCT-ND◆	1.30	11.10	86.95	4226PHTB-ND◆	—	552.00	2222 138 37479
	100	28	0.100	180	18	8.0	0.8	4227PHCT-ND◆	1.40	12.00	94.00	4227PHTB-ND◆	384.50	597.00	2222 138 37101
	220	57	0.100	350	25	10	0.8	4228PHCT-ND◆	2.12	18.21	142.65	4228PHTB-ND◆	583.00	906.00	2222 138 37221
	330	83	0.100	410	30	10	0.8	4229PHBK-ND◆†	1.81	15.48	121.26	—	495.69	770.15	2222 138 17331
	470	120	0.100	550	30	12.5	0.8	4230PHBK-ND◆†	2.01	17.25	135.13	—	552.37	858.20	2222 138 17471
	680	170	0.110	650	30	12.5	0.8	4231PHBK-ND◆†	2.32	19.92	156.04	—	637.86	991.04	2222 138 17681
	1000	240	0.110	840	30	15	0.8	4232PHBK-ND◆†	2.80	23.97	187.77	—	767.55	1192.53	2222 138 17102
	2200	530	0.130	1500	38	18	0.8	4234PHBK-ND◆†	4.57	39.15	306.68	—	1253.63	1947.75	2222 138 17222
	3300	800	0.150	1700	38	21	0.8	4235PHBK-ND◆†	6.17	52.89	414.31	—	1693.60	2631.33	2222 138 17332
50	10	13	0.090	51	12.7	6.3	0.6	4236PHCT-ND◆	1.50	12.87	100.82	4236PHTB-ND◆	—	640.00	2222 138 31109
	22	25	0.090	82	12.7	7.7	0.6	4237PHCT-ND◆	1.66	14.19	111.16	4237PHTB-ND◆	454.50	706.00	2222 138 31229
	100	34	0.080	230	18	10	0.8	4238PHCT-ND◆	1.76	15.09	118.21	4238PHTB-ND◆	483.00	751.00	2222 138 31101
63	4.7	9.0	0.090	35	12.7	6.3	0.6	4239PHCT-ND◆	1.50	12.87	100.82	4239PHTB-ND◆	—	640.00	2222 138 38478
	10	16	0.080	59	12.7	7.7	0.6	4240PHCT-ND◆	1.66	14.19	111.16	4240PHTB-ND◆	454.50	706.00	2222 138 38109
	22	12	0.070	100	18	6.5	0.8	4241PHCT-ND◆	1.30	11.10	86.95	4241PHTB-ND◆	—	552.00	2222 138 38229
	47	22	0.070	150	18	8.0	0.8	4242PHCT-ND◆	1.40	12.00	94.00	4242PHTB-ND◆	384.50	597.00	2222 138 38479
	100	42	0.070	280	25	10	0.8	4243PHCT-ND◆	2.12	18.21	142.65	4243PHTB-ND◆	583.00	906.00	2222 138 38101
	150	61	0.110	340	30	10	0.8	4244PHBK-ND◆†	1.77	15.21	119.15	—	487.04	756.71	2222 138 18151
	220	88	0.110	470	30	12.5	0.8	4245PHBK-ND◆†	1.99	17.04	133.48	—	545.64	847.76	2222 138 18221
	330	130	0.120	570	30	12.5	0.8	4246PHBK-ND◆†	2.32	19.89	155.81	—	636.90	989.55	2222 138 18331
	470	180	0.120	730	30	15	0.8	4247PHBK-ND◆†	2.75	23.55	184.48	—	754.10	1171.64	2222 138 18471
	1000	380	0.120	1300	38	18	0.8	4249PHBK-ND◆†	4.35	37.29	292.11	—	1194.07	1855.21	2222 138 18102
	1500	570	0.130	1600	38	21	0.8	4250PHBK-ND◆†	5.88	50.43	395.04	—	1614.83	2508.94	2222 138 18152
100	1.0	5.0	0.090	16	12.7	6.3	0.6	4251PHCT-ND◆	1.50	12.87	100.82	4251PHTB-ND◆	—	640.00	2222 138 39108
	2.2	7.0	0.090	24	12.7	6.3	0.6	4252PHCT-ND	1.50	12.87	100.82	4252PHTB-ND	—	640.00	2222 138 39228
	4.7	12	0.080	40	12.7	7.7	0.6	4253PHCT-ND◆	1.66	14.19	111.16	4253PHTB-ND◆	454.50	706.00	2222 138 39478
	10	10	0.070	67	18	6.5	0.8	4254PHCT-ND	1.30	11.10	86.95	4254PHTB-ND	—	552.00	2222 138 39109
	22	17	0.070	100	18	8.0	0.8	4255PHCT-ND◆	1.40	12.00	94.00	4255PHTB-ND◆	384.50	597.00	2222 138 39229
	47	32	0.070	190	25	10	0.8	4256PHCT-ND	2.12	18.21	142.65	4256PHTB-ND	583.00	906.00	2222 138 39479
	68	45	0.070	220	30	10	0.8	4257PHBK-ND◆†	1.89	16.17	126.67	—	517.78	804.47	2222 138 19689
	100	64	0.070	290	30	12.5	0.8	4258PHBK-ND◆†	2.11	18.06	141.47	—	578.30	898.50	2222 138 19101
	220	140	0.070	470	30	15	0.8	4260PHBK-ND◆†	2.94	25.17	197.17	—	805.97	1252.23	2222 138 19221
	330	200	0.080	620	30	18	0.8	4261PHBK-ND◆†	3.70	31.68	248.16	—	1014.43	1576.11	2222 138 19331
	470	290	0.080	840	38	18	0.8	4262PHBK-ND◆†	4.67	40.02	313.49	—	1281.49	1991.04	2222 138 19471

◆ ***RoHS Compliant*** † Bulk

Panasonic®

Bi-Polar Series SU Capacitors

FEATURES:

- Ideal for circuits where polarity is not constant or reverse voltage is applied when switches are turned on or off.
- Life: 2000 hours at +85°C.

SPECIFICATIONS:

Operating Temperature Range: -40°C ~ 85°C.

Capacitance Tolerance: ±20% (120Hz, +20°C).

Leakage Current: I ≤ 0.03CV + 3(µA) after 5 minutes application of rated working voltage at +20°C.

Low Temperature Characteristics: Impedance ratio max. at 120Hz. Following specified values.

Working Voltage		6.3V	10V	16V	25V	35V	50V
Impedance	-25°C/+20°C	4	3	2	2	2	2
	-40°C/+20°C	8	6	4	4	4	3

ENDURANCE:

Test Conditions: Duration: 2000 hours. Ambient Temperature: +85°C. Applied Voltage: Rated DC working voltage to each polarity for 1000 hours.

Post Test Requirements: +20°C. Leakage Current: ≤Initial specified value. Capacitance Change: ±20% of initial measured value. tan δ: ≤150% of initial specified value.

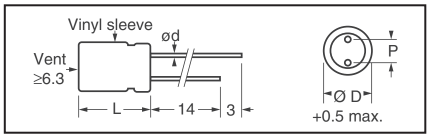

SHELF LIFE:

Test Conditions: Duration: 1000 hours. Ambient Temperature: 85°C. Applied Voltage: none

Post Test Requirements (+20°C): Same limits for "Endurance".

WV	Cap. (µF)	D.C.L. (+20°C/5min.) (µA) max.	tan δ (120Hz/+20°C) (max.)	Ripple Current (mA) rms	Dimensions – mm				Digi-Key Part No.	Pricing						Panasonic Part No.
					D	L	P	d		1	10	100	1,000	5,000	10,000	
6.3	33	9.2	0.30	80	5	11	2.0	0.5	P1141-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A0JN330U
	47	11.8	0.30	90	5	11	2.0	0.5	P1142-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A0JN470U
	100	21.9	0.30	130	6.3	11.2	2.5	0.5	P1143-ND◆	.31	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A0JN101U
	220	44.5	0.30	200	8	11.5	3.5	0.6	P1144-ND◆	.38	2.65	18.95	106.00	99.00/M	95.00/M	ECE-A0JN221U
	330	65.3	0.30	250	8	11.5	3.5	0.6	P1145-ND◆	.42	2.96	21.13	118.00	110.00/M	106.00/M	ECE-A0JN331U
	470	91.8	0.30	310	10	12.5	5.0	0.6	P1146-ND◆	.53	3.73	27.40	157.00	152.00/M	146.00/M	ECE-A0JN471X
	1000	192.0	0.30	430	10	20	5.0	0.6	P1147-ND◆	.80	5.60	41.10	236.00	227.00/M	219.00/M	ECE-A0JN102U
	2200	418.8	0.30	660	12.5	25	5.0	0.6	P1148-ND◆	1.11	7.87	59.02	349.00	336.00/M	328.00/M	ECE-A0JN222U
	3300	626.7	0.30	760	16	25	7.5	0.8	P1149-ND◆	1.42	10.05	75.40	446.00	429.00/M	419.00/M	ECE-A0JN332U
	4700	891.3	0.30	1170	16	31.5	7.5	0.8	P1150-ND◆	1.73	12.36	93.26	606.00	588.00/M	574.00/M	ECE-A0JN472U
	6800	1288.2	0.30	1450	18	35.5	7.5	0.8	P1151-ND◆	2.44	17.38	131.14	852.00	826.00/M	807.00/M	ECE-A0JN682U
10	22	9.6	0.25	60	5	11	2.0	0.5	P1152-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1AN220U
	33	12.9	0.25	80	5	11	2.0	0.5	P1153-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1AN330U
	47	17.1	0.25	90	5	11	2.0	0.5	P1154-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1AN470U
	100	33.0	0.25	130	6.3	11.2	2.5	0.5	P1155-ND	.84	6.27	46.06	265.00	255.00/M	245.00/M	ECE-A1AN101U
	100	33.0	0.25	130	6.3	11.2	2.5	0.5	P1370-ND◆	.51	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A1AN101X
	220	69.0	0.25	200	8	11.5	3.5	0.6	P1156-ND◆	.42	2.96	21.13	118.00	110.00/M	106.00/M	ECE-A1AN221U
	330	102.0	0.25	280	10	16	5.0	0.6	P1157-ND◆	.53	3.73	27.40	157.00	152.00/M	146.00/M	ECE-A1AN331U
	470	144.0	0.25	340	10	16	5.0	0.6	P1158-ND◆	.66	4.66	34.24	197.00	189.00/M	182.00/M	ECE-N1AN471U
	1000	303.0	0.25	470	12.5	20	5.0	0.6	P1159-ND◆	.99	6.99	52.45	310.00	298.00/M	291.00/M	ECE-A1AN102X
	2200	663.0	0.25	690	16	25	7.5	0.8	P1160-ND◆	1.42	10.05	75.40	446.00	429.00/M	419.00/M	ECE-A1AN222U
	3300	993.0	0.25	1090	16	31.5	7.5	0.8	P1161-ND◆	1.73	12.36	93.26	606.00	588.00/M	574.00/M	ECE-A1AN332U
	4700	1413.0	0.25	1200	18	35.5	7.5	0.8	P1162-ND◆	2.44	17.38	131.14	852.00	826.00/M	807.00/M	ECE-A1AN472U
16	10	7.8	0.20	40	5	11	2.0	0.5	P1163-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1CN100U
	22	13.5	0.20	60	5	11	2.0	0.5	P1164-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1CN220U
	33	18.8	0.20	80	5	11	2.0	0.5	P1165-ND◆	.20	1.38	9.83	55.00	51.00/M	49.00/M	ECE-A1CN330U
	47	25.5	0.20	100	6.3	11.2	2.5	0.5	P1166-ND◆	.31	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A1CN470U
	100	51.0	0.20	180	8	11.5	3.5	0.6	P1167-ND◆	.43	2.96	21.13	118.00	110.00/M	106.00/M	ECE-A1CN101U
	220	108.6	0.20	260	10	12.5	5.0	0.6	P1168-ND◆	.53	3.73	27.40	157.00	152.00/M	146.00/M	ECE-A1CN221X
	330	161.4	0.20	330	10	16	5.0	0.6	P1169-ND◆	.66	4.66	34.24	197.00	189.00/M	182.00/M	ECE-A1CN331U
	470	228.6	0.20	380	10	20	5.0	0.6	P1170-ND◆	.74	5.25	39.35	233.00	224.00/M	219.00/M	ECE-A1CN471U
	1000	483.0	0.20	560	12.5	25	5.0	0.6	P1171-ND◆	1.23	8.74	65.57	388.00	373.00/M	364.00/M	ECE-A1CN102U
	2200	1059.0	0.20	750	16	31.5	7.5	0.8	P1172-ND◆	1.73	12.36	93.26	606.00	588.00/M	574.00/M	ECE-A1CN222U
	3300	1587.0	0.20	900	18	35.5	7.5	0.8	P1173-ND◆	2.44	17.38	131.14	852.00	826.00/M	807.00/M	ECE-A1CN332U
25	3.3	5.4	0.15	20	5	11	2.0	0.5	P1174-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1EN3R3U
	4.7	6.5	0.15	25	5	11	2.0	0.5	P1175-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1EN4R7U
	10	10.5	0.15	45	5	11	2.0	0.5	P1176-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1EN100U
	22	19.5	0.15	60	5	11	2.0	0.5	P1177-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1EN220X
	33	27.7	0.15	90	6.3	11.2	2.5	0.5	P1178-ND◆	.31	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A1EN330U
	47	38.2	0.15	110	6.3	11.2	2.5	0.5	P1179-ND◆	.31	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A1EN470U
	100	78.0	0.15	180	8	11.5	3.5	0.6	P1180-ND◆	.45	3.17	23.29	134.00	129.00/M	124.00/M	ECE-A1EN101U
	220	168.0	0.15	320	10	16	5.0	0.6	P1181-ND◆	.67	4.66	34.24	197.00	189.00/M	182.00/M	ECE-A1EN221U
	330	250.5	0.15	350	12.5	20	5.0	0.6	P1182-ND◆	.80	5.68	42.62	252.00	242.00/M	237.00/M	ECE-A1EN331U
	470	355.5	0.15	430	12.5	20	5.0	0.6	P1183-ND◆	.99	6.99	52.45	310.00	298.00/M	291.00/M	ECE-A1EN471U
	1000	753.0	0.15	680	16	25	7.5	0.8	P1184-ND◆	1.51	10.81	81.60	530.00	514.00/M	502.00/M	ECE-A1EN102U
	2200	1653.0	0.15	900	18	35.5	7.5	0.8	P1185-ND◆	2.44	17.38	131.14	852.00	826.00/M	807.00/M	ECE-A1EN222U
35	4.7	7.9	0.15	30	5	11	2.0	0.5	P1186-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1VN4R7U
	10	13.5	0.15	43	5	11	2.0	0.5	P1187-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1VN100U
	22	26.1	0.15	80	6.3	11.2	2.5	0.5	P1188-ND◆	.31	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A1VN220U
	33	37.6	0.15	100	8	11.5	3.5	0.6	P1189-ND◆	.42	2.96	21.13	118.00	110.00/M	106.00/M	ECE-A1VN330U
	47	52.3	0.15	120	8	11.5	3.5	0.6	P1190-ND◆	.45	3.17	23.29	134.00	129.00/M	124.00/M	ECE-A1VN470U
	100	108.0	0.15	230	10	16	5.0	0.6	P1191-ND◆	.67	4.66	34.24	197.00	189.00/M	182.00/M	ECE-A1VN101U
	220	234.0	0.15	360	12.5	20	5.0	0.6	P1192-ND◆	.80	5.68	42.62	252.00	242.00/M	237.00/M	ECE-A1VN221U
	330	349.5	0.15	450	12.5	20	5.0	0.6	P1193-ND◆	.99	6.99	52.45	310.00	298.00/M	291.00/M	ECE-A1VN331U
	470	496.5	0.15	590	12.5	25	5.0	0.6	P1194-ND◆	1.08	7.72	58.28	379.00	367.00/M	358.00/M	ECE-A1VN471U
50	0.47	3.7	0.15	10	5	11	2.0	0.5	P1195-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1HNR47U
	1	4.5	0.15	10	5	11	2.0	0.5	P1196-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1HN010U
	2.2	6.3	0.15	18	5	11	2.0	0.5	P1197-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1HN2R2U
	3.3	7.9	0.15	25	5	11	2.0	0.5	P1198-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1HN3R3U
	4.7	10.0	0.15	30	5	11	2.0	0.5	P1199-ND◆	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1HN4R7U
	10	18.0	0.15	50	6.3	11.2	2.5	0.5	P1280-ND◆	.31	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A1HN100U
	22	36.0	0.15	90	8	11.5	3.5	0.6	P1281-ND◆	.42	2.96	21.13	118.00	110.00/M	106.00/M	ECE-A1HN220U
	33	52.5	0.15	110	8	11.5	3.5	0.6	P1282-ND◆	.45	3.17	23.29	134.00	129.00/M	124.00/M	ECE-A1HN330U
	47	73.5	0.15	140	10	12.5	5.0	0.6	P1283-ND◆	.57	3.96	29.12	167.00	161.00/M	155.00/M	ECE-A1HN470U
	100	153.0	0.15	250	10	20	5.0	0.6	P1284-ND◆	.74	5.25	39.35	233.00	224.00/M	219.00/M	ECE-A1HN101U
	220	333.0	0.15	360	12.5	25	5.0	0.6	P1285-ND◆	1.11	7.87	59.02	349.00	336.00/M	328.00/M	ECE-A1HN221U
	330	498.0	0.15	450	16	25	7.5	0.8	P1286-ND◆	1.24	8.88	67.02	436.00	422.00/M	412.00/M	ECE-A1HN331U
	470	708.0	0.15	590	16	31.5	7.5	0.8	P1287-ND◆	1.73	12.36	93.26	606.00	588.00/M	574.00/M	ECE-A1HN471U

◆ ***RoHS Compliant***

Panasonic® M Series Radial Lead Aluminum Electrolytic Capacitors

Ammo Box Packaging

PANASONIC M SERIES CROSS REFERENCES
Nichicon: VR; **Chemicon:** SMG;
Marcon: DSM; **Rubycon:** YK; **Elna:** RE3;
Nitsuko: MK; **Sanyo:** HC/HPC

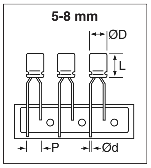

5-8 mm

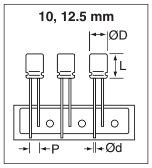

10, 12.5 mm

FEATURES: • Miniaturized size version for general purpose use • Life: 2000 hours at 85°C • Vent construction for ≥ Ø6.3 mm products

SPECIFICATIONS:

Operating Temperature Range	-40°C ~ 85°C	-25°C ~ 85°C
Rated Working Voltage Range	6.3 ~ 50 V DC	160 ~ 450 V DC
Nominal Capacitance Range	0.47 ~ 2200 µF	1 ~ 470 µF

Capacitance Tolerance: ±20% (120 Hz, 20°C)

Leakage Current	I≤ 0.03 CV or 4 (µA) after 1 minute I≤ 0.01 CV or 3 (µA) after 2 minutes Whichever is greater measured with rated working voltage at 20°C.	I≤ 0.06 CV + 10 (µA) after 2 minutes application of rated working voltage at 20°C.

tan δ: (at 120 Hz, 20°C)

W.V.	6.3	10	16	25	35	50
tan δ	0.28	0.24	0.20	0.16	0.14	0.12

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Low Temperature Characteristics: Impedance ratio at 120 Hz

W.V.	6.3	10	16	25	35	50
-25°C/20°C	5	4	3	2	2	2
-40°C/20°C	12	10	8	5	4	3

For capacitance value >1000 µF, add 0.5 per every 1000 µF for -25°C/20°C.
add 1.0 per every 1000 µF for -40°C/20°C.

Ripple Current: 120 Hz, 85°C

Frequency (Hz)	50/60	120	1k	10k
Correction Factor (Multiplier)	0.7	1	1.3	1.7

Endurance:

Test Conditions		**Post Test Requirements at 20°C**	
Duration	2000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 150% initial specified value

Shelf Life:

Test Conditions		**Post Test Requirements at 20°C**	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**tan δ**	≤ 150% initial specified value

WV (VDC)	**Cap (µF)**	**Leakage Current (µA)**	**tan δ Maximum**	**Ripple Current (mA) rms**	**Dimensions (mm)**				**Digi-Key Part No.**	**Pricing**			**Panasonic Part No.**
					ØD	**L**	**P**	**Ød**		**500**	**1,000**	**2,000**	
6.3	220	13.8	0.28	240	5	11	5.0	0.5	P10357TB-ND	—	—	27.00/M	ECA-0JM221B
	220	13.8	0.28	240	5	11	2.5	0.5	P10401TB-ND	—	—	27.00/M	ECA-0JM221I
	470	29.6	0.28	380	6.3	11.2	5.0	0.5	P10358TB-ND	—	—	39.00/M	ECA-0JM471B
	470	29.6	0.28	380	6.3	11.2	2.5	0.5	P10402TB-ND	—	—	39.00/M	ECA-0JM471I
	1000	63	0.28	580	8	11.5	5.0	0.6	P10359TB-ND	—	63.00	—	ECA-0JM102B
	1000	63	0.28	580	8	11.5	3.5	0.6	P10403TB-ND	—	63.00	—	ECA-0JM102BJ
	2200	138.6	0.3	890	10	16	5.0	0.6	P10360TB-ND	67.00	—	104.00/M	ECA-0JM222B
	3300	207.9	0.32	1020	10	20	5.0	0.6	P10361TB-ND	86.50	—	138.00/M	ECA-0JM332B
	4700	296.1	0.34	1170	12.5	20	5.0	0.6	P10362TB-ND	124.00	—	197.00/M	ECA-0JM472B
10	100	10	0.24	150	5	11	5.0	0.5	P10363TB-ND	—	—	27.00/M	ECA-1AM101B
	100	10	0.24	150	5	11	2.5	0.5	P10404TB-ND	—	—	27.00/M	ECA-1AM101I
	220	22	0.24	250	5	11	5.0	0.5	P10364TB-ND	—	—	42.00/M	ECA-1AM221B
	220	22	0.24	250	6.3	11.2	2.5	0.5	P10405TB-ND	—	—	42.00/M	ECA-1AM221I
	330	33	0.24	330	6.3	11.2	5.0	0.5	P10365TB-ND	—	—	39.00/M	ECA-1AM331B
	330	33	0.24	330	6.3	11.2	2.5	0.5	P10406TB-ND	—	—	39.00/M	ECA-1AM331I
	470	47	0.24	400	8	11.5	5.0	0.6	P10366TB-ND	—	63.00	—	ECA-1AM471B
	470	47	0.24	400	8	11.5	3.5	0.6	P10407TB-ND	—	63.00	—	ECA-1AM471BJ
	1000	100	0.24	630	10	12.5	5.0	0.6	P10367TB-ND	51.00	—	80.00/M	ECA-1AM102B
	2200	220	0.26	920	10	20	5.0	0.6	P10368TB-ND	86.50	—	138.00/M	ECA-1AM222B
16	100	16	0.2	180	5	11	5.0	0.5	P10369TB-ND	—	—	30.00/M	ECA-1CM101B
	100	16	0.2	180	5	11	2.5	0.5	P10408TB-ND	—	—	30.00/M	ECA-1CM101I
	220	35.2	0.2	280	6.3	11.2	5.0	0.5	P10370TB-ND	—	—	39.00/M	ECA-1CM221B
	220	35.2	0.2	280	6.3	11.2	2.5	0.5	P10409TB-ND	—	—	39.00/M	ECA-1CM221I
	330	52.8	0.3	350	8	11.5	5.0	0.6	P10371TB-ND	—	63.00	—	ECA-1CM331B
	330	52.8	0.3	350	8	11.5	3.5	0.6	P10410TB-ND	—	63.00	—	ECA-1CM331BJ
	470	75.2	0.2	440	8	11.5	5.0	0.6	P10372TB-ND	—	63.00	—	ECA-1CM471B
	470	75.2	0.2	440	8	11.5	3.5	0.6	P10411TB-ND	—	63.00	—	ECA-1CM471BJ
	1000	160	0.2	680	10	16	5.0	0.6	P10373TB-ND	67.00	—	104.00/M	ECA-1CM102B
	2200	352	0.22	1000	12.5	20	5.0	0.6	P10374TB-ND	124.00	—	197.00/M	ECA-1CM222B
25	47	11.7	0.16	130	5	11	5.0	0.5	P10375TB-ND	—	—	30.00/M	ECA-1EM470B
	47	11.7	0.16	130	5	11	2.5	0.5	P10412TB-ND	—	—	30.00/M	ECA-1EM470I
	100	25	0.16	180	6.3	11.2	5.0	0.5	P10376TB-ND	—	—	42.00/M	ECA-1EM101B
	100	25	0.16	180	6.3	11.2	2.5	0.5	P10413TB-ND	—	—	42.00/M	ECA-1EM101I
	220	55	0.16	310	8	11.5	5.0	0.6	P10377TB-ND	—	63.00	—	ECA-1EM221B
	220	55	0.16	310	8	11.5	3.5	0.6	P10414TB-ND	—	63.00	—	ECA-1EM221BJ
	330	82.5	0.16	390	8	11.5	5.0	0.6	P10378TB-ND	—	63.00	—	ECA-1EM331B
	330	82.5	0.16	390	8	11.5	3.5	0.6	P10415TB-ND	—	63.00	—	ECA-1EM331BJ
	470	117.5	0.16	480	10	12.5	5.0	0.6	P10379TB-ND	59.00	—	92.00/M	ECA-1EM471B
	1000	250	0.16	850	10	20	5.0	0.6	P10380TB-ND	93.00	—	148.00/M	ECA-1EM102B
35	33	11.5	0.14	110	5	11	5.0	0.5	P10381TB-ND	—	—	30.00/M	ECA-1VM330B
	33	11.5	0.14	110	5	11	2.5	0.5	P10416TB-ND	—	—	30.00/M	ECA-1VM330I
	47	16.4	0.14	130	5	11	5.0	0.5	P10382TB-ND	—	—	30.00/M	ECA-1VM470B
	47	16.4	0.14	130	5	11	2.5	0.5	P10417TB-ND	—	—	30.00/M	ECA-1VM470I
	100	35	0.14	210	6.3	11.2	5.0	0.5	P10383TB-ND	—	—	39.00/M	ECA-1VM101B
	100	35	0.14	210	6.3	11.2	2.5	0.5	P10418TB-ND	—	—	39.00/M	ECA-1VM101I
	220	77	0.14	350	8	11.5	5.0	0.6	P10384TB-ND	—	63.00	—	ECA-1VM221B
	220	77	0.14	350	8	11.5	3.5	0.6	P10419TB-ND	—	63.00	—	ECA-1VM221BJ
	330	115.5	0.14	440	10	12.5	5.0	0.6	P10385TB-ND	59.00	—	92.00/M	ECA-1VM331B
	470	164.5	0.14	550	10	16	5.0	0.6	P10386TB-ND	68.00	—	106.00/M	ECA-1VM471B
	1000	350	0.14	900	12.5	20	5.0	0.6	P10387TB-ND	136.50	—	216.00/M	ECA-1VM102B
50	0.47	3	0.12	5	5	11	5.0	0.5	P10388TB-ND	—	—	27.00/M	ECA-1HMR47B
	0.47	3	0.12	5	5	11	2.5	0.5	P10420TB-ND	—	—	27.00/M	ECA-1HMR47I
	1	3	0.12	10	5	11	5.0	0.5	P10389TB-ND	—	—	27.00/M	ECA-1HM010B
	1	3	0.12	10	5	11	2.5	0.5	P10421TB-ND	—	—	27.00/M	ECA-1HM010I
	2.2	3	0.12	20	5	11	5.0	0.5	P10390TB-ND	—	—	27.00/M	ECA-1HM2R2B
	2.2	3	0.12	20	5	11	2.5	0.5	P10422TB-ND	—	—	27.00/M	ECA-1HM2R2I
	3.3	3	0.12	35	5	11	5.0	0.5	P10391TB-ND	—	—	27.00/M	ECA-1HM3R3B
	3.3	3	0.12	35	5	11	2.5	0.5	P10423TB-ND	—	—	27.00/M	ECA-1HM3R3I
	4.7	3	0.12	45	5	11	5.0	0.5	P10392TB-ND	—	—	27.00/M	ECA-1HM4R7B
	4.7	3	0.12	45	5	11	2.5	0.5	P10424TB-ND	—	—	27.00/M	ECA-1HM4R7I
	10	5	0.12	65	5	11	5.0	0.5	P10393TB-ND	—	—	27.00/M	ECA-1HM100B
	10	5	0.12	65	5	11	2.5	0.5	P10425TB-ND	—	—	27.00/M	ECA-1HM100I
	22	11	0.12	100	5	11	5.0	0.5	P10394TB-ND	—	—	30.00/M	ECA-1HM220B
	22	11	0.12	100	5	11	2.5	0.5	P10426TB-ND	—	—	30.00/M	ECA-1HM220I
	33	16.5	0.12	110	5	11	5.0	0.5	P10395TB-ND	—	—	30.00/M	ECA-1HM330B
	33	16.5	0.12	110	5	11	2.5	0.5	P10427TB-ND	—	—	30.00/M	ECA-1HM330I
	47	23.5	0.12	130	6.3	11.2	5.0	0.5	P10396TB-ND	—	—	42.00/M	ECA-1HM470B
	47	23.5	0.12	130	6.3	11.2	2.5	0.5	P10428TB-ND	—	—	42.00/M	ECA-1HM470I
	100	50	0.12	250	8	11.5	5.0	0.6	P10397TB-ND	—	63.00	—	ECA-1HM101B
	100	50	0.12	250	8	11.5	3.5	0.6	P10429TB-ND	—	63.00	—	ECA-1HM101BJ
	220	11	0.12	400	10	12.5	5.0	0.6	P10398TB-ND	63.00	—	98.00/M	ECA-1HM221B
	330	165	0.12	500	10	16	5.0	0.6	P10399TB-ND	72.00	—	112.00/M	ECA-1HM331B
	470	235	0.12	650	10	20	5.0	0.6	P10400TB-ND	93.00	—	148.00/M	ECA-1HM471B

Panasonic

M Series Radial Lead Aluminum Electrolytic Capacitors

PANASONIC M SERIES
CROSS REFERENCES
Nichicon: VR; **Chemicon:** SMG;
Marcon: DSM; **Rubycon:** YK;
Elna: RE3; **Nitsuko:** MK;
Sanyo: HC/HPC

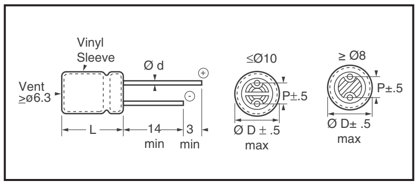

FEATURES:

- Miniaturized size version for general purpose use
- Life: 2000 hours at +85°C
- Vent construction for ≥ø6.3 mm products

SPECIFICATIONS:

Operating Temperature Range	-40°C ~ 85°C	-25°C ~ 85°C
Rated Working Voltage Range	6.3 ~ 100 V DC	160 ~ 450 V DC
Nominal Capacitance Range	0.33 ~ 22000 µF	1 ~ 470 µF

Capacitance Tolerance: ±20% (120 Hz, 20°C)

Leakage Current	I≤ 0.03 CV or 4 (µA) after 1 minute I≤ 0.01 CV or 3 (µA) after 2 minutes Whichever is greater measured with rated working voltage at 20°C.	I≤ 0.06 CV + 10 (µA) after 2 minutes application of rated working voltage at 20°C.

tan δ: (at 120 Hz, 20°C)

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.11	0.10	0.16	0.18	0.20

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Low Temperature Characteristics: Impedance ratio at 120 Hz

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
-25°C/20°C	5	4	3	2	2	2	2	2	2	3	6
-40°C/20°C	12	10	8	5	4	3	3	3	—	—	—

For capacitance value >1000 µF, add 0.5 per every 1000 µF for -25°C/20°C.
add 1.0 per every 1000 µF for -40°C/20°C.

Ripple Current: 120 Hz, 85°C

Frequency (Hz)	50/60	120	1k	10k
Correction Factor (Multiplier)	0.7	1	1.3	1.7

Endurance:

Test Conditions		**Post Test Requirements at 20°C**	
Duration	2000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 150% initial specified value

Shelf Life:

Test Conditions		**Post Test Requirements at 20°C**	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**tan δ**	≤ 150% initial specified value

WV (VDC)	**Cap. (µF)**	**Leakage Current (µA)**	**Ripple tan δ max.**	**Current (mA) rms**	**Dimensions (mm) øD**	**L**	**P**	**ød**	**Digi-Key Part No.**	**Pricing 1**	**10**	**100**	**500**	**1,000**	**5,000**	**Panasonic Part No.**
6.3	100	6.3	0.28	130	5	11	2.0	0.5	P5111-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-0JM101
	220	13.8	0.28	240	5	11	2.0	0.5	P5112-ND	.16	.77	5.21	17.64	27.00	23.00/M	ECA-0JM221
	330	20.7	0.28	300	6.3	11.2	2.5	0.5	P5113-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-0JM331
	470	29.6	0.28	380	6.3	11.2	2.5	0.5	P5114-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-0JM471
	1000	63.0	0.28	580	8	11.5	3.5	0.6	P5115-ND	.25	1.48	10.58	38.07	59.00	55.00/M	ECA-0JM102
	2200	138.6	0.30	890	10	16	5.0	0.6	P5116-ND	.46	2.60	18.58	66.87	104.00	97.00/M	ECA-0JM222
	3300	207.9	0.32	1020	10	20	5.0	0.6	P5117-ND	.57	3.26	23.97	86.70	138.00	133.00/M	ECA-0JM332
	4700	296.1	0.34	1170	12.5	20	5.0	0.6	P5118-ND	.82	4.66	34.24	123.85	197.00	189.00/M	ECA-0JM472
	6800	428.4	0.38	1270	12.5	25	5.0	0.6	P5119-ND	.93	5.90	44.26	157.36	262.00	252.00/M	ECA-0JM682
	10000	630.0	0.46	1450	16	25	7.5	0.8	P5120-ND	1.30	7.43	55.73	198.16	329.00	317.00/M	ECA-0JM103
	15000	945.0	0.56	1700	16	31.5	7.5	0.8	P5121-ND	1.61	9.27	69.94	262.28	455.00	441.00/M	ECA-0JM153
	22000	1386.0	0.70	1900	18	35.5	7.5	0.8	P5122-ND	2.35	13.52	102.00	382.50	663.00	643.00/M	ECA-0JM223
10	100	10.0	0.24	150	5	11	2.0	0.5	P5123-ND	.16	.77	5.21	17.64	27.00	23.00/M	ECA-1AM101
	220	22.0	0.24	250	6.3	11.2	2.5	0.5	P5124-ND	.24	1.21	8.12	27.51	42.00	35.00/M	ECA-1AM221
	330	33.0	0.24	330	6.3	11.2	2.5	0.5	P5125-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-1AM331
	470	47.0	0.24	400	8	11.5	3.5	0.6	P5126-ND	.32	1.65	11.63	40.19	63.00	55.00/M	ECA-1AM471
	1000	100.0	0.24	630	10	12.5	5.0	0.6	P5127-ND	.34	1.99	14.20	51.12	80.00	74.00/M	ECA-1AM102
	2200	220.0	0.26	920	10	20	5.0	0.6	P5128-ND	.57	3.26	23.97	86.70	138.00	133.00/M	ECA-1AM222
	3300	330.0	0.28	1090	12.5	20	5.0	0.6	P5129-ND	.74	4.66	34.24	123.85	197.00	189.00/M	ECA-1AM332
	4700	470.0	0.30	1200	12.5	25	5.0	0.6	P5130-ND	.94	5.90	44.26	157.36	262.00	252.00/M	ECA-1AM472
	6800	680.0	0.34	1400	16	25	7.5	0.8	P5131-ND	1.30	7.43	55.73	198.16	329.00	317.00/M	ECA-1AM682
	10000	1000.0	0.42	1600	16	31.5	7.5	0.8	P5132-ND	1.56	9.27	69.94	262.28	455.00	441.00/M	ECA-1AM103
	15000	1500.0	0.52	1850	18	35.5	7.5	0.8	P5133-ND	2.35	13.52	102.00	382.50	663.00	643.00/M	ECA-1AM153
16	10	3.0	0.20	30	5	11	2.0	0.5	P5134-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1CM100
	22	3.5	0.20	75	5	11	2.0	0.5	P5135-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1CM220
	33	5.2	0.20	110	5	11	2.0	0.5	P5136-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1CM330
	47	7.5	0.20	130	5	11	2.0	0.5	P5137-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1CM470
	100	16.0	0.20	180	5	11	2.0	0.5	P5138-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1CM101
	220	35.2	0.20	280	6.3	11.2	2.5	0.5	P5139-ND	.19	1.02	7.21	24.89	39.00	34.00/M	ECA-1CM221
	330	52.8	0.20	350	8	11.5	3.5	0.6	P5140-ND	.32	1.65	11.63	40.19	63.00	55.00/M	ECA-1CM331
	470	75.2	0.20	440	8	11.5	3.5	0.6	P5141-ND	.26	1.48	10.58	38.07	59.00	55.00/M	ECA-1CM471
	1000	160.0	0.20	680	10	16	5.0	0.6	P5142-ND	.40	2.60	18.58	66.87	104.00	97.00/M	ECA-1CM102
	2200	352.0	0.22	1000	12.5	20	5.0	0.6	P5143-ND	.82	4.66	34.24	123.85	197.00	189.00/M	ECA-1CM222
	3300	528.0	0.24	1200	12.5	25	5.0	0.6	P5144-ND	1.03	5.90	44.26	157.36	262.00	252.00/M	ECA-1CM332
	4700	752.0	0.26	1360	16	25	7.5	0.8	P5145-ND	1.30	7.43	55.73	198.16	329.00	317.00/M	ECA-1CM472
	6800	1088.0	0.30	1600	16	31.5	7.5	0.8	P5146-ND	1.58	9.27	69.94	262.28	455.00	441.00/M	ECA-1CM682
	10000	1600.0	0.38	1800	18	35.5	7.5	0.8	P5147-ND	2.35	13.52	102.00	382.50	663.00	643.00/M	ECA-1CM103
25	10	3.0	0.16	50	5	11	2.0	0.5	P5148-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1EM100
	22	5.5	0.16	90	5	11	2.0	0.5	P5149-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1EM220
	33	8.2	0.16	110	5	11	2.0	0.5	P5150-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1EM330
	47	11.7	0.16	130	5	11	2.0	0.5	P5151-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1EM470
	100	25.0	0.16	180	6.3	11.2	2.5	0.5	P5152-ND	.23	1.21	8.12	27.51	42.00	35.00/M	ECA-1EM101
	220	55.0	0.16	310	8	11.5	3.5	0.6	P5153-ND	.31	1.65	11.63	40.19	63.00	55.00/M	ECA-1EM221
	330	82.5	0.16	390	8	11.5	3.5	0.6	P5154-ND	.25	1.48	10.58	38.07	59.00	55.00/M	ECA-1EM331
	470	117.5	0.16	480	10	12.5	5.0	0.6	P5155-ND	.39	2.30	16.40	59.04	92.00	85.00/M	ECA-1EM471
	1000	250.0	0.16	850	10	20	5.0	0.6	P5156-ND	.58	3.50	25.69	92.91	148.00	142.00/M	ECA-1EM102
	2200	550.0	0.18	1200	12.5	25	5.0	0.6	P5157-ND	1.04	5.90	44.26	157.36	262.00	252.00/M	ECA-1EM222
	3300	825.0	0.20	1300	16	25	7.5	0.8	P5158-ND	1.35	8.31	62.30	221.52	368.00	354.00/M	ECA-1EM332
	4700	1175.0	0.22	1500	16	31.5	7.5	0.8	P5159-ND	1.72	10.04	75.78	284.18	493.00	477.00/M	ECA-1EM472
	6800	1700.0	0.26	1750	18	35.5	7.5	0.8	P5160-ND	2.55	14.67	110.74	415.28	720.00	698.00/M	ECA-1EM682

(Continued)

Panasonic M Series Radial Lead Aluminum Electrolytic Capacitors *(Cont.)*

WV (VDC)	Cap. (µF)	Leakage Current (µA)	Ripple tan δ max.	Current (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
					øD	L	P	ød		1	10	100	500	1,000	5,000	
35	10	3.5	0.14	60	5	11	2.0	0.5	P5161-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1VM100
	22	7.7	0.14	95	5	11	2.0	0.5	P5162-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1VM220
	33	11.5	0.14	110	5	11	2.0	0.5	P5163-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1VM330
	47	16.4	0.14	130	5	11	2.0	0.5	P5164-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1VM470
	100	35.0	0.14	210	6.3	11.2	2.5	0.5	P5165-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-1VM101
	220	77.0	0.14	350	8	11.5	3.5	0.6	P5166-ND	.26	1.48	10.58	38.07	59.00	55.00/M	ECA-1VM221
	330	115.5	0.14	440	10	12.5	5.0	0.6	P5167-ND	.36	2.30	16.40	59.04	92.00	85.00/M	ECA-1VM331
	470	164.5	0.14	550	10	16	5.0	0.6	P5168-ND	.43	2.65	18.95	68.22	106.00	99.00/M	ECA-1VM471
	1000	350.0	0.14	900	12.5	20	5.0	0.6	P5169-ND	.74	5.13	37.67	136.26	216.00	208.00/M	ECA-1VM102
	2200	770.0	0.16	1250	16	25	7.5	0.8	P5170-ND	1.26	8.31	62.30	221.52	368.00	354.00/M	ECA-1VM222
	3300	1155.0	0.18	1400	16	31.5	7.5	0.8	P5171-ND	1.48	10.04	75.78	284.18	493.00	477.00/M	ECA-1VM332
	4700	1645.0	0.20	1600	18	35.5	7.5	0.8	P5172-ND	2.42	14.67	110.74	415.28	720.00	698.00/M	ECA-1VM472
50	0.33	3.0	0.12	4.4	5	11	2.0	0.5	P5349-ND†	.21	1.33	8.99	30.45	46.00	39.00/M	ECA-1HMR33
	0.47	3.0	0.12	5	5	11	2.0	0.5	P5173-ND†	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HMR47
	1.0	3.0	0.12	10	5	11	2.0	0.5	P5174-ND†	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM010
	2.2	3.0	0.12	20	5	11	2.0	0.5	P5175-ND†	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM2R2
	3.3	3.0	0.12	35	5	11	2.0	0.5	P5176-ND†	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM3R3
	4.7	3.0	0.12	45	5	11	2.0	0.5	P5177-ND†	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM4R7
	10	5.0	0.12	65	5	11	2.0	0.5	P5178-ND†	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM100
	22	11.0	0.12	100	5	11	2.0	0.5	P5179-ND†	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1HM220
	33	16.5	0.12	110	5	11	2.0	0.5	P5180-ND†	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1HM330
	47	23.5	0.12	130	6.3	11.2	2.5	0.5	P5181-ND†	.25	1.21	8.12	27.51	42.00	35.00/M	ECA-1HM470
	100	50.0	0.12	250	8	11.5	3.5	0.6	P5182-ND†	.29	1.65	11.63	40.19	63.00	55.00/M	ECA-1HM101
	220	110.0	0.12	400	10	12.5	5.0	0.6	P5183-ND†	.37	2.45	17.48	62.91	98.00	91.00/M	ECA-1HM221
	330	165.0	0.12	500	10	16	5.0	0.6	P5184-ND†	.43	2.56	18.82	68.09	108.00	104.00/M	ECA-1HM331
	470	235.0	0.12	650	10	20	5.0	0.6	P5185-ND†	.52	3.50	25.69	92.91	148.00	142.00/M	ECA-1HM471
	1000	500.0	0.12	1050	12.5	25	5.0	0.6	P5186-ND†	1.03	6.12	45.90	163.20	271.00	261.00/M	ECA-1HM102
	2200	1100.0	0.14	1300	16	31.5	7.5	0.8	P5187-ND†	1.85	10.81	81.60	306.00	530.00	514.00/M	ECA-1HM222
	3300	1650.0	0.16	1500	18	35.5	7.5	0.8	P5188-ND†	2.51	14.67	110.74	415.28	720.00	698.00/M	ECA-1HM332
63	10	6.3	0.11	70	5	11	2.0	0.5	P5189-ND	.17	.87	5.86	19.85	30.00	26.00/M	ECA-1JM100
	22	13.8	0.11	105	5	11	2.0	0.5	P5190-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1JM220
	33	20.7	0.11	130	6.3	11.2	2.5	0.5	P5191-ND	.19	1.02	7.21	24.89	39.00	34.00/M	ECA-1JM330
	47	29.6	0.11	160	6.3	11.2	2.5	0.5	P5192-ND	.21	1.11	7.81	26.98	43.00	37.00/M	ECA-1JM470
	100	63.0	0.11	270	8	11.5	3.5	0.6	P5193-ND	.31	1.79	12.75	45.90	71.00	66.00/M	ECA-1JM101
	220	138.6	0.11	450	10	16	5.0	0.6	P5194-ND	.45	2.56	18.82	68.09	108.00	104.00/M	ECA-1JM221
	330	207.9	0.11	550	10	20	5.0	0.6	P5195-ND	.63	3.64	26.72	96.65	153.00	148.00/M	ECA-1JM331
	470	296.1	0.11	750	12.5	20	5.0	0.6	P5196-ND	.92	5.25	39.35	139.92	233.00	224.00/M	ECA-1JM471
	1000	630.0	0.11	1100	16	25	7.5	0.8	P5197-ND	1.40	8.31	62.30	221.52	368.00	354.00/M	ECA-1JM102
	2200	1386.0	0.13	1400	18	35.5	7.5	0.8	P5198-ND	2.64	15.45	116.58	437.18	758.00	734.00/M	ECA-1JM222
100	0.47	3.0	0.10	10	5	11	2.0	0.5	P5199-ND	.18	.91	6.11	20.69	32.00	27.00/M	ECA-2AMR47
	1.0	3.0	0.10	20	5	11	2.0	0.5	P5305-ND	.18	.91	6.11	20.69	32.00	27.00/M	ECA-2AM010
	2.2	3.0	0.10	30	5	11	2.0	0.5	P5306-ND	.19	.91	6.11	20.69	32.00	27.00/M	ECA-2AM2R2
	3.3	3.3	0.10	40	5	11	2.0	0.5	P5307-ND	.19	.91	6.11	20.69	32.00	27.00/M	ECA-2AM3R3
	4.7	4.7	0.10	50	5	11	2.0	0.5	P5308-ND	.19	.91	6.11	20.69	32.00	27.00/M	ECA-2AM4R7
	10	10.0	0.10	70	5	11	2.0	0.5	P5309-ND	.19	.94	6.32	21.42	33.00	28.00/M	ECA-2AM100
	22	22.0	0.10	115	6.3	11.2	2.5	0.5	P5310-ND	.21	1.11	7.81	26.98	43.00	37.00/M	ECA-2AM220
	33	33.0	0.10	145	8	11.5	3.5	0.6	P5311-ND	.38	1.99	14.03	48.45	77.00	66.00/M	ECA-2AM330
	47	47.0	0.10	180	8	11.5	3.5	0.6	P5312-ND	.32	1.89	13.48	48.51	75.00	70.00/M	ECA-2AM470
	100	100.0	0.10	350	10	16	5.0	0.6	P5313-ND	.48	2.89	21.22	76.76	122.00	117.00/M	ECA-2AM101
	220	220.0	0.10	550	12.5	20	5.0	0.6	P5314-ND	.94	5.46	40.97	145.68	242.00	233.00/M	ECA-2AM221
	330	330.0	0.10	700	12.5	25	5.0	0.6	P5315-ND	1.21	6.99	52.45	186.48	310.00	298.00/M	ECA-2AM331
	470	470.0	0.10	900	16	25	7.5	0.8	P5316-ND	1.59	9.27	69.94	262.28	455.00	441.00/M	ECA-2AM471
	1000	1000.0	0.10	1300	18	35.5	7.5	0.8	P5317-ND	2.91	17.76	134.06	502.73	871.00	845.00/M	ECA-2AM102
160	1.0	19.6	0.16	36	6.3	11.2	2.5	0.5	P5318-ND	.32	1.37	9.63	33.25	53.00	46.00/M	ECA-2CM010
	2.2	31.1	0.16	53	6.3	11.2	2.5	0.5	P5319-ND	.33	1.37	9.63	33.25	53.00	46.00/M	ECA-2CM2R2
	3.3	41.6	0.16	66	6.3	11.2	2.5	0.5	P5320-ND	.29	1.23	8.75	31.50	49.00	46.00/M	ECA-2CM3R3
	4.7	55.1	0.16	78	6.3	11.2	2.5	0.5	P5321-ND	.31	1.23	8.75	31.50	49.00	46.00/M	ECA-2CM4R7
	10	103.0	0.16	105	10	12.5	5.0	0.6	P5322-ND	.42	2.30	16.40	59.04	92.00	85.00/M	ECA-2CM100
	22	221.0	0.16	175	10	16	5.0	0.6	P5323-ND	.51	2.56	18.82	68.09	108.00	104.00/M	ECA-2CM220
	33	326.0	0.16	235	10	20	5.0	0.6	P5324-ND	.68	3.03	22.25	80.50	128.00	123.00/M	ECA-2CM330
	47	461.0	0.16	320	12.5	20	5.0	0.6	P5325-ND	.99	4.81	36.07	128.24	213.00	205.00/M	ECA-2CM470
	100	970.0	0.16	515	12.5	25	5.0	0.6	P5326-ND	1.24	6.12	45.90	163.20	271.00	261.00/M	ECA-2CM101
	220	2122.0	0.16	830	16	31.5	7.5	0.8	P5327-ND	1.79	9.65	72.86	273.23	474.00	459.00/M	ECA-2CM221
	330	3178.0	0.16	1090	18	31.5	7.5	0.8	P5328-ND	3.07	18.53	139.88	524.55	909.00	881.00/M	ECA-2CM331
	470	4522.0	0.16	1440	18	40	7.5	0.8	P5329-ND	4.16	24.33	183.60	688.50	1193.00	1157.00/M	ECA-2CM471
250	1.0	25.0	0.18	34	6.3	11.2	2.5	0.5	P5330-ND	.29	1.23	8.75	31.50	49.00	46.00/M	ECA-2EM010
	2.2	43.0	0.18	50	6.3	11.2	2.5	0.5	P5331-ND	.29	1.23	8.75	31.50	49.00	46.00/M	ECA-2EM2R2
	3.3	59.5	0.18	72	8	11.5	3.5	0.6	P5332-ND	.36	1.79	12.75	45.90	71.00	66.00/M	ECA-2EM3R3
	4.7	80.5	0.18	86	8	11.5	3.5	0.6	P5333-ND	.41	1.79	12.75	45.90	71.00	66.00/M	ECA-2EM4R7
	10	160.0	0.18	110	10	16	5.0	0.6	P5334-ND	.51	2.56	18.82	68.09	108.00	104.00/M	ECA-2EM100
	22	340.0	0.18	180	10	20	5.0	0.6	P5335-ND	.81	3.36	24.65	89.17	142.00	136.00/M	ECA-2EM220
	33	505.0	0.18	250	12.5	20	5.0	0.6	P5336-ND	1.00	4.81	36.07	128.24	213.00	205.00/M	ECA-2EM330
	47	715.0	0.18	350	12.5	25	5.0	0.6	P5337-ND	1.21	6.12	45.90	163.20	271.00	261.00/M	ECA-2EM470
	100	1510.0	0.18	530	16	31.5	7.5	0.8	P5338-ND	1.91	9.65	72.86	273.23	474.00	459.00/M	ECA-2EM101
	220	3310.0	0.18	930	18	40	7.5	0.8	P5339-ND	4.15	24.33	183.60	688.50	1193.00	1157.00/M	ECA-2EM221
450	1.0	37.0	0.20	37	8	11.5	3.5	0.6	P5340-ND	.44	1.94	13.85	49.86	78.00	72.00/M	ECA-2WM010
	2.2	69.4	0.20	44	10	12.5	5.0	0.6	P5341-ND	.52	2.65	18.95	68.22	106.00	99.00/M	ECA-2WM2R2
	3.3	99.1	0.20	60	10	16	5.0	0.6	P5342-ND	.59	2.80	20.54	74.29	118.00	114.00/M	ECA-2WM3R3
	4.7	136.0	0.20	79	10	20	5.0	0.6	P5343-ND	.85	3.50	25.69	92.91	148.00	142.00/M	ECA-2WM4R7
	10	280.0	0.20	130	12.5	20	5.0	0.6	P5344-ND	1.18	5.46	40.97	145.68	242.00	233.00/M	ECA-2WM100
	22	604.0	0.20	210	16	25	7.5	0.8	P5345-ND	1.63	8.50	64.12	240.45	417.00	404.00/M	ECA-2WM220
	33	901.0	0.20	285	16	31.5	7.5	0.8	P5346-ND	1.95	10.81	81.60	306.00	530.00	514.00/M	ECA-2WM330

† M-KIT-ND ***Digi-Key® M Series Capacitors Kit*** 10 each of values denoted. 170 total pieces. Includes notebook style storage case and bin storage guide **$69.95**

Panasonic®

NHG Series Radial Lead Aluminum Electrolytic Capacitors

RoHS COMPLIANT

Panasonic NHG Series Cross References:
Nippon Chemicon: KMG; **Nichicon:** VZ;
Elna: RJ4; **Rubycon:** YXA

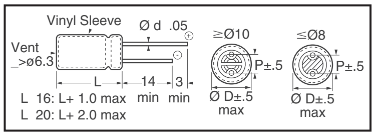

FEATURES:

- Compact size (same case size with series M)
- Life: 1000 ~ 2000 hours at +105°C

SPECIFICATIONS:

Operating Temperature Range	-55°C ~ 105°C	-25°C ~ 105°C
Rated Working Voltage Range	6.3 to 100VDC	160 to 450VDC
Nominal Capacitance Range	0.1 to 22000 µF	1.0 to 330 µF

Capacitance Tolerance: ±20% (120 Hz, +20°C)

Leakage Current	I ≤ 0.01 CV µA or 3µA, whichever is greater after 2 minutes application of rated working voltage at 20°C.	I ≤ 0.06 CV + 10µA after 2 minutes application of rated working voltage at 20°C.

tan δ: (at 120 Hz, +20°C)

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
tan δ max.	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15	0.15	0.24

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Ripple Current: 120 Hz, 105°C

W.V. (V.DC)	**Cap (µF)**	**Frequency (Hz)**				
		60	**120**	**1k**	**10k**	**100k**
6.3 ~ 100	**0.1~ 33**	0.75	1	1.55	1.80	2.00
	47 ~ 470	0.80	1	1.35	1.50	1.50
	1000 ~ 22000	0.85	1	1.10	1.15	1.15
160 ~ 450	**1.0 ~ 330**	0.80	1	1.35	1.50	1.50

Endurance:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	2000 Hours*	**Leakage Current**	≤ initial specified value
Ambient Temperature	105°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 200% initial specified value

* 1000 Hours for ≤ Ø8mm products.

Shelf Life:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	105°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**tan δ**	≤ 200% initial specified value

WV (VDC)	**Cap. µF**	**D.C.L. (+20°C) (µA) max.**	**tan δ max.**	**Ripple Current (mA) rms**	**Dimensions (mm)**				**Digi-Key Part No.**	**Pricing**						**Panasonic Part No.**
					øD	**L**	**P**	**ød**		**1**	**10**	**100**	**500**	**1,000**	**5,000**	
6.3	100	6.3	0.28	91	5	11	2.0	0.5	P5505-ND	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-0JHG101
	220	13.8	0.28	140	5	11	2.0	0.5	P5506-ND	.19	.97	6.82	23.56	37.00	32.00/M	ECA-0JHG221
	330	20.7	0.28	190	6.3	11.2	2.5	0.5	P5507-ND	.30	1.53	10.81	37.34	59.00	51.00/M	ECA-0JHG331
	470	29.6	0.28	230	6.3	11.2	2.5	0.5	P5508-ND	.24	1.38	9.83	35.37	55.00	51.00/M	ECA-0JHG471
	1000	63.0	0.28	380	8	11.5	3.5	0.6	P5509-ND	.38	2.24	16.03	57.69	90.00	83.00/M	ECA-0JHG102
	2200	138.6	0.30	710	10	16	5.0	0.6	P5510-ND	.63	3.54	26.01	94.10	149.00	144.00/M	ECA-0JHG222
	3300	207.9	0.32	840	10	20	5.0	0.6	P5511-ND	.82	4.66	34.24	123.85	197.00	189.00/M	ECA-0JHG332
	4700	296.1	0.34	1090	12.5	20	5.0	0.6	P5512-ND	.99	5.68	42.62	151.52	252.00	242.00/M	ECA-0JHG472
	6800	428.4	0.38	1350	12.5	25	5.0	0.6	P5513-ND	1.27	7.21	54.09	192.32	320.00	308.00/M	ECA-0JHG682
	10000	630.0	0.46	1650	16	25	7.5	0.8	P5514-ND	1.61	9.27	69.94	262.28	455.00	441.00/M	ECA-0JHG103
	15000	945.0	0.56	2010	16	31.5	7.5	0.8	P5515-ND	2.14	12.36	93.26	349.73	606.00	588.00/M	ECA-0JHG153
	22000	1386.0	0.70	2350	18	35.5	7.5	0.8	P5516-ND	3.02	17.38	131.14	491.78	852.00	826.00/M	ECA-0JHG223
10	100	10.0	0.24	110	5	11	2.0	0.5	P5517-ND	.18	.97	6.82	23.56	37.00	32.00/M	ECA-1AHG101
	220	22.0	0.24	170	6.3	11.2	2.5	0.5	P5518-ND	.30	1.53	10.81	37.34	59.00	51.00/M	ECA-1AHG221
	330	33.0	0.24	200	6.3	11.2	2.5	0.5	P5519-ND	.25	1.38	9.83	35.37	55.00	51.00/M	ECA-1AHG331
	470	47.0	0.24	250	8	11.5	3.5	0.6	P5520-ND	.35	2.04	14.58	52.47	82.00	76.00/M	ECA-1AHG471
	1000	100.0	0.24	460	10	12.5	5.0	0.6	P5521-ND	.41	2.80	20.54	74.29	118.00	114.00/M	ECA-1AHG102
	2200	220.0	0.26	760	10	20	5.0	0.6	P5522-ND	.79	4.43	32.52	117.64	187.00	180.00/M	ECA-1AHG222
	3300	330.0	0.28	1000	12.5	20	5.0	0.6	P5523-ND	.96	5.68	42.62	151.52	252.00	242.00/M	ECA-1AHG332
	4700	470.0	0.30	1260	12.5	25	5.0	0.6	P5524-ND	1.30	7.65	57.38	204.00	339.00	326.00/M	ECA-1AHG472
	6800	680.0	0.34	1570	16	25	7.5	0.8	P5525-ND	1.84	10.49	78.68	279.76	465.00	448.00/M	ECA-1AHG682
	10000	1000.0	0.42	1890	16	31.5	7.5	0.8	P5526-ND	2.15	12.36	93.26	349.73	606.00	588.00/M	ECA-1AHG103
	15000	1500.0	0.52	2180	18	35.5	7.5	0.8	P5527-ND	3.02	17.38	131.14	491.78	852.00	826.00/M	ECA-1AHG153
16	47	7.5	0.20	77	5	11	2.0	0.5	P5528-ND	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1CHG470
	100	16.0	0.20	110	5	11	2.0	0.5	P5529-ND	.19	.97	6.82	23.56	37.00	32.00/M	ECA-1CHG101
	220	35.2	0.20	180	6.3	11.2	2.5	0.5	P5530-ND	.25	1.38	9.83	35.37	55.00	51.00/M	ECA-1CHG221
	330	52.8	0.20	260	8	11.5	3.5	0.6	P5531-ND	.37	2.04	14.58	52.47	82.00	76.00/M	ECA-1CHG331
	470	75.2	0.20	310	8	11.5	3.5	0.6	P5532-ND	.40	2.24	16.03	57.69	90.00	83.00/M	ECA-1CHG471
	1000	160.0	0.20	560	10	16	5.0	0.6	P5533-ND	.63	3.54	26.01	94.10	149.00	144.00/M	ECA-1CHG102
	2200	352.0	0.22	920	12.5	20	5.0	0.6	P5534-ND	.99	5.68	42.62	151.52	252.00	242.00/M	ECA-1CHG222
	3300	528.0	0.24	1170	12.5	25	5.0	0.6	P5535-ND	1.35	7.65	57.38	204.00	339.00	326.00/M	ECA-1CHG332
	4700	752.0	0.26	1480	16	25	7.5	0.8	P5536-ND	1.61	9.27	69.94	262.28	455.00	441.00/M	ECA-1CHG472
	6800	1088.0	0.30	1780	16	31.5	7.5	0.8	P5537-ND	2.07	12.36	93.26	349.73	606.00	588.00/M	ECA-1CHG682
	10000	1600.0	0.38	2060	18	35.5	7.5	0.8	P5538-ND	3.02	17.38	131.14	491.78	852.00	826.00/M	ECA-1CHG103
25	47	11.7	0.16	91	5	11	2.0	0.5	P5539-ND	.18	.97	6.82	23.56	37.00	32.00/M	ECA-1EHG470
	100	25.0	0.16	130	6.3	11.2	2.5	0.5	P5540-ND	.28	1.53	10.81	37.34	59.00	51.00/M	ECA-1EHG101
	220	55.0	0.16	230	8	11.5	3.5	0.6	P5541-ND	.35	2.04	14.58	52.47	82.00	76.00/M	ECA-1EHG221
	330	82.5	0.16	310	8	11.5	3.5	0.6	P5542-ND	.42	2.35	16.75	60.30	94.00	87.00/M	ECA-1EHG331
	470	117.5	0.16	380	10	12.5	5.0	0.6	P5543-ND	.49	2.94	21.57	78.03	124.00	119.00/M	ECA-1EHG471
	1000	250.0	0.16	680	10	20	5.0	0.6	P5544-ND	.82	4.66	34.24	123.85	197.00	189.00/M	ECA-1EHG102
	2200	550.0	0.18	1090	12.5	25	5.0	0.6	P5545-ND	1.29	7.65	57.38	204.00	339.00	326.00/M	ECA-1EHG222
	3300	825.0	0.20	1400	16	25	7.5	0.8	P5546-ND	1.65	9.85	74.32	278.70	483.00	468.00/M	ECA-1EHG332
	4700	1175.0	0.22	1750	16	31.5	7.5	0.8	P5547-ND	1.84	12.36	93.26	349.73	606.00	588.00/M	ECA-1EHG472
	6800	1700.0	0.26	2040	18	35.5	7.5	0.8	P5548-ND	3.15	18.15	136.98	513.68	890.00	863.00/M	ECA-1EHG682
35	33	11.5	0.14	75	5	11	2.0	0.5	P5549-ND	.18	.97	6.82	23.56	37.00	32.00/M	ECA-1VHG330
	47	16.4	0.14	90	5	11	2.0	0.5	P5550-ND	.19	.97	6.82	23.56	37.00	32.00/M	ECA-1VHG470
	100	35.0	0.14	150	6.3	11.2	2.5	0.5	P5551-ND	.25	1.38	9.83	35.37	55.00	51.00/M	ECA-1VHG101
	220	77.0	0.14	270	8	11.5	3.5	0.6	P5552-ND	.42	2.35	16.75	60.30	94.00	87.00/M	ECA-1VHG221
	330	115.5	0.14	350	10	12.5	5.0	0.6	P5553-ND	.52	2.94	21.57	78.03	124.00	119.00/M	ECA-1VHG331
	470	164.5	0.14	460	10	16	5.0	0.6	P5554-ND	.56	3.54	26.01	94.10	149.00	144.00/M	ECA-1VHG471
	1000	350.0	0.14	810	12.5	20	5.0	0.6	P5555-ND	1.03	5.90	44.26	157.36	262.00	252.00/M	ECA-1VHG102
	2200	770.0	0.16	1260	16	25	7.5	0.8	P5556-ND	1.71	9.85	74.32	278.70	483.00	468.00/M	ECA-1VHG222
	3300	1155.0	0.18	1610	16	31.5	7.5	0.8	P5557-ND	2.15	12.36	93.26	349.73	606.00	588.00/M	ECA-1VHG332
	4700	1645.0	0.20	1910	18	35.5	7.5	0.8	P5558-ND	3.15	18.15	136.98	513.68	890.00	863.00/M	ECA-1VHG472

(Continued)

WV (VDC)	Cap. µF	D.C.L. (+20°C) (µA) max.	tan δ max.	Ripple Current (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
					øD	L	P	ød		1	10	100	500	1,000	5,000	
50	0.1	3.0	0.12	1.1	5	11	2.0	0.5	P5559-ND†	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG0R1
	0.22	3.0	0.12	2.3	5	11	2.0	0.5	P5560-ND†	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHGR22
	0.33	3.0	0.12	3.5	5	11	2.0	0.5	P5561-ND†	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHGR33
	0.47	3.0	0.12	5	5	11	2.0	0.5	P5562-ND†	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHGR47
	1.0	3.0	0.12	10	5	11	2.0	0.5	P5563-ND†	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG010
	2.2	3.0	0.12	18	5	11	2.0	0.5	P5564-ND†	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG2R2
	3.3	3.0	0.12	22	5	11	2.0	0.5	P5565-ND†	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG3R3
	4.7	3.0	0.12	26	5	11	2.0	0.5	P5566-ND†	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG4R7
	10	5.0	0.12	39	5	11	2.0	0.5	P5567-ND†	.22	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG100
	22	11.0	0.12	65	5	11	2.0	0.5	P5568-ND†	.18	.97	6.82	23.56	37.00	32.00/M	ECA-1HHG220
	33	16.5	0.12	90	5	11	2.0	0.5	P5569-ND†	.19	.97	6.82	23.56	37.00	32.00/M	ECA-1HHG330
	47	23.5	0.12	110	6.3	11.2	2.5	0.5	P5570-ND†	.29	1.53	10.81	37.34	59.00	51.00/M	ECA-1HHG470
	100	50.0	0.12	180	8	11.5	3.5	0.6	P5571-ND†	.39	2.14	15.30	55.08	86.00	80.00/M	ECA-1HHG101
	220	110.0	0.12	330	10	12.5	5.0	0.6	P5572-ND†	.50	2.94	21.57	78.03	124.00	119.00/M	ECA-1HHG221
	330	165.0	0.12	410	10	16	5.0	0.6	P5573-ND†	.57	3.54	26.01	94.10	149.00	144.00/M	ECA-1HHG331
	470	235.0	0.12	530	10	20	5.0	0.6	P5574-ND†	.70	4.66	34.24	123.85	197.00	189.00/M	ECA-1HHG471
	1000	500.0	0.12	950	12.5	25	5.0	0.6	P5575-ND†	1.19	7.65	57.38	204.00	339.00	326.00/M	ECA-1HHG102
	2200	1100.0	0.14	1470	16	31.5	7.5	0.8	P5576-ND†	1.74	12.36	93.26	349.73	606.00	588.00/M	ECA-1HHG222
	3300	1650.0	0.16	1770	18	35.5	7.5	0.8	P5577-ND	3.04	18.15	136.98	513.68	890.00	863.00/M	ECA-1HHG332
63	10	6.3	0.10	46	5	11	2.0	0.5	P5578-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-1JHG100
	22	13.8	0.10	71	5	11	2.0	0.5	P5579-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-1JHG220
	33	20.7	0.10	100	6.3	11.2	2.5	0.5	P5580-ND	.31	1.59	11.22	38.76	61.00	53.00/M	ECA-1JHG330
	47	29.6	0.10	120	6.3	11.2	2.5	0.5	P5581-ND	.25	1.43	10.20	36.72	57.00	53.00/M	ECA-1JHG470
	100	63.0	0.10	215	10	12.5	5.0	0.6	P5582-ND	.48	3.21	22.95	82.62	129.00	119.00/M	ECA-1JHG101
	220	138.6	0.10	335	10	16	5.0	0.6	P5583-ND	.69	3.87	28.41	102.77	163.00	157.00/M	ECA-1JHG221
	330	207.9	0.10	510	10	20	5.0	0.6	P5584-ND	.91	5.13	37.67	136.26	216.00	208.00/M	ECA-1JHG331
	470	296.1	0.10	640	12.5	20	5.0	0.6	P5585-ND	1.15	6.56	49.19	174.88	291.00	280.00/M	ECA-1JHG471
	1000	630.0	0.10	930	16	25	7.5	0.8	P5586-ND	1.78	10.23	77.22	289.58	502.00	486.00/M	ECA-1JHG102
	2200	1386.0	0.12	1610	18	35.5	7.5	0.8	P5587-ND	3.49	20.08	151.54	568.28	985.00	955.00/M	ECA-1JHG222
100	0.47	3.0	0.08	9	5	11	2.0	0.5	P5588-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHGR47
	1.0	3.0	0.08	14	5	11	2.0	0.5	P5589-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHG010
	2.2	3.0	0.08	21	5	11	2.0	0.5	P5590-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHG2R2
	3.3	3.3	0.08	31	5	11	2.0	0.5	P5591-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHG3R3
	4.7	4.7	0.08	38	5	11	2.0	0.5	P5592-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHG4R7
	10	10.0	0.08	54	6.3	11.2	2.5	0.5	P5593-ND	.30	1.59	11.22	38.76	61.00	53.00/M	ECA-2AHG100
	22	22.0	0.08	93	6.3	11.2	2.5	0.5	P5594-ND	.25	1.43	10.20	36.72	57.00	53.00/M	ECA-2AHG220
	33	33.0	0.08	130	8	11.5	3.5	0.6	P5595-ND	.44	2.45	17.48	62.91	98.00	91.00/M	ECA-2AHG330
	47	47.0	0.08	165	10	12.5	5.0	0.6	P5596-ND	.53	2.96	21.13	76.05	118.00	110.00/M	ECA-2AHG470
	100	100.0	0.08	265	10	20	5.0	0.6	P5597-ND	.91	5.13	37.67	136.26	216.00	208.00/M	ECA-2AHG101
	220	220.0	0.08	440	12.5	25	5.0	0.6	P5598-ND	1.36	7.78	58.37	207.52	345.00	332.00/M	ECA-2AHG221
	330	330.0	0.08	540	16	25	7.5	0.8	P5599-ND	1.92	10.93	81.97	291.44	485.00	466.00/M	ECA-2AHG331
	470	470.0	0.08	715	16	25	7.5	0.8	P5850-ND	2.02	11.58	87.42	327.83	568.00	551.00/M	ECA-2AHG471
	1000	1000.0	0.08	985	18	35.5	7.5	0.8	P5851-ND	3.49	20.08	151.54	568.28	985.00	955.00/M	ECA-2AHG102
160	1.0	19.6	0.15	17	6.3	11.2	2.5	0.5	P5852-ND	.34	1.53	10.93	39.33	61.00	57.00/M	ECA-2CHG010
	2.2	31.1	0.15	25	6.3	11.2	2.5	0.5	P5853-ND	.38	1.53	10.93	39.33	61.00	57.00/M	ECA-2CHG2R2
	3.3	41.6	0.15	36	6.3	11.2	2.5	0.5	P5854-ND	.41	1.53	10.93	39.33	61.00	57.00/M	ECA-2CHG3R3
	4.7	55.1	0.15	43	6.3	11.2	2.5	0.5	P5855-ND	.45	1.53	10.93	39.33	61.00	57.00/M	ECA-2CHG4R7
	10	106.0	0.15	70	10	12.5	5.0	0.6	P5856-ND	.53	2.70	19.86	71.83	114.00	110.00/M	ECA-2CHG100
	22	221.0	0.15	130	10	20	5.0	0.6	P5857-ND	.71	3.64	26.72	96.65	153.00	148.00/M	ECA-2CHG220
	33	326.0	0.15	180	10	20	5.0	0.6	P5858-ND	.82	3.41	25.58	90.96	151.00	146.00/M	ECA-2CHG330
	47	461.0	0.15	220	12.5	20	5.0	0.6	P5859-ND	1.02	4.81	36.07	128.24	213.00	205.00/M	ECA-2CHG470
	100	970.0	0.15	335	16	25	7.5	0.8	P5860-ND	1.50	7.87	59.02	209.84	349.00	336.00/M	ECA-2CHG101
	220	2122.0	0.15	540	16	31.5	7.5	0.8	P5861-ND	2.28	10.81	81.60	306.00	530.00	514.00/M	ECA-2CHG221
	330	3178.0	0.15	705	18	31.5	7.5	0.8	P5862-ND	3.26	19.31	145.72	546.45	947.00	918.00/M	ECA-2CHG331
250	1.0	25.0	0.15	17	6.3	11.2	2.5	0.5	P5863-ND	.40	1.53	10.93	39.33	61.00	57.00/M	ECA-2EHG010
	2.2	43.0	0.15	29	6.3	11.2	2.5	0.5	P5864-ND	.42	1.53	10.93	39.33	61.00	57.00/M	ECA-2EHG2R2
	3.3	59.5	0.15	42	8	11.5	3.5	0.6	P5865-ND	.45	1.87	13.70	49.56	79.00	76.00/M	ECA-2EHG3R3
	4.7	80.5	0.15	50	8	11.5	3.5	0.6	P5866-ND	.52	2.10	15.42	55.76	89.00	85.00/M	ECA-2EHG4R7
	10	160.0	0.15	88	10	16	5.0	0.6	P5867-ND	.78	3.54	26.01	94.10	149.00	144.00/M	ECA-2EHG100
	22	340.0	0.15	155	12.5	20	5.0	0.6	P5868-ND	.94	5.03	37.71	134.08	223.00	215.00/M	ECA-2EHG220
	33	505.0	0.15	190	12.5	20	5.0	0.6	P5869-ND	1.12	5.46	40.97	145.68	242.00	233.00/M	ECA-2EHG330
	47	715.0	0.15	230	12.5	25	5.0	0.6	P5870-ND	1.45	6.99	52.45	186.48	310.00	298.00/M	ECA-2EHG470
	100	1510.0	0.15	365	16	31.5	7.5	0.8	P5871-ND	2.22	10.81	81.60	306.00	530.00	514.00/M	ECA-2EHG101
450	1.0	37.0	0.20	18	8	11.5	3.5	0.6	P5872-ND	.56	2.33	17.13	61.97	98.00	95.00/M	ECA-2WHG010
	2.2	69.4	0.20	29	10	12.5	5.0	0.6	P5873-ND	.60	2.80	20.54	74.29	118.00	114.00/M	ECA-2WHG2R2
	3.3	99.1	0.20	41	10	16	5.0	0.6	P5874-ND	.84	3.64	26.72	96.65	153.00	148.00/M	ECA-2WHG3R3
	4.7	136.0	0.20	49	10	20	5.0	0.6	P5875-ND	.88	3.72	27.88	99.12	165.00	159.00/M	ECA-2WHG4R7
	10	280.0	0.20	75	12.5	20	5.0	0.6	P5876-ND	1.50	6.56	49.19	174.88	291.00	280.00/M	ECA-2WHG100
	22	604.0	0.20	115	16	25	7.5	0.8	P5877-ND	2.00	9.27	69.94	262.28	455.00	441.00/M	ECA-2WHG220
	33	901.0	0.20	155	16	31.5	7.5	0.8	P5878-ND	2.45	11.58	87.42	327.83	568.00	551.00/M	ECA-2WHG330

† NHG-KIT-ND ***Digi-Key® NHG Series Capacitors Kit*** 10 each of values denoted. 180 total pieces. Includes notebook style storage case and bin storage guide **$69.95**

Panasonic®

FC Series Radial Lead Aluminum Electrolytic Capacitors

FEATURES:
- Low impedance • Long life: 1000 ~ 5000 hours at 105°C

SPECIFICATIONS:
• **Operating Temperature Range:** -55 ~ 105°C • **Rated Working Voltage Range:** 6.3 to 100VDC • **Nominal Capacitance Range:** 1.0 ~ 15000µF • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3 (µA) whichever is greater measured after 2 minutes application of rated working voltage at 20°C

• **tan δ:** (120Hz, 20°C)

Working Volt. (V)	6.3	10	16	25	35	50	63	100
tan δ Maximum	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.07

For capacitance value > 1000µF, add 0.02 per every 1000µF.

• **Impedance at High Frequency:** Refer to standard product table (100kHz, 20°C) • **Ripple Current:** Refer to standard product table (100kHz, 105°C)

Endurance:
Test Conditions — Duration: 1000 hours (for Ø4 ~ Ø6.3mm), 2000 hours (for Ø8mm), 3000 hours (for Ø10mm), 5000 hours (for Ø12.5mm ~ 18mm) • **Ambient Temperature:** 105°C ±2°C • **Applied Voltage:** DC voltage with maximum permissible ripple current specified at 105°C (the sum of the DC voltage and super-imposed peak AC voltage for maximum permissible ripple current should be equal to rated DC working voltage.)
Post Test Requirements at 20°C — Leakage Current: ≤ Initial specified value • **Capacitance change:** ±20% of initial measured value • **tan** δ: ≤ 200% of initial specified value
Shelf Life:
Test Conditions — Duration: 1000 hours • **Ambient Temperature:** 105°C ±2°C • **Applied Voltage:** (none)
Post Test Requirements at 20°C — Leakage Current: ≤ Initial specified value • **Capacitance change:** ±20% of initial measured value • **tan** δ: ≤ 200% of initial specified value
• **Body Color:** Black Blue • **Marking Color:** Gold

Frequency Correction Factor for Ripple Current

W.V. (V DC)	Frequency (Hz) / Cap. (µF)	60	120	1K	10K	100K
6.3 ~ 100	1.0 ~ 330	0.55	0.65	0.85	0.90	1.00
	390 ~ 1000	0.70	0.75	0.90	0.95	1.00
	1200 ~ 2200	0.75	0.80	0.90	0.95	1.00
	2700 ~ 15000	0.80	0.85	0.95	1.00	1.00

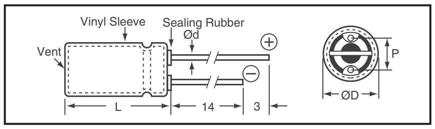

W.V. (V)	Cap. (µF)	Dimensions – mm ØD	L	P	Ød	Leakage Current (20°C) (2 Min.) (µA) Maximum	Impedance (100kHz) (20°C) (Ω) Maximum	Ripple Current (105°C) (mA) rms Maximum	Life Time (hours)	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
6.3	68	4	11	1.5	0.45	4.28	1.30	120	1000	P12700-ND◆	.28	1.88	13.26	72.00	EEU-FC0J680
	100	5	11	2.0	0.50	6.3	0.80	175	1000	P10195-ND◆	.34	1.37	9.63	53.00	EEU-FC0J101
	150	5	15	2.0	0.50	9.4	0.50	235	1000	P10196-ND◆	.30	2.01	14.19	77.00	EEU-FC0J151
	220	6.3	11.2	2.0	0.50	13.86	0.350	290	1000	P12701-ND◆	.34	1.70	12.02	66.00	EEU-FC0J221
	330	6.3	11.2	2.5	0.50	20.7	0.35	290	1000	P10197-ND◆	.28	1.53	10.93	61.00	EEU-FC0J331S
	330	6.3	15	2.5	0.50	20.79	0.250	400	1000	P12702-ND◆	.39	2.54	17.90	98.00	EEU-FC0J331
	390	8	11.5	3.5	0.60	24.57	0.117	555	2000	P12703-ND◆	.48	2.45	17.24	94.00	EEU-FC0J391
	470	8	11.5	3.5	0.60	29.61	0.117	555	2000	P12704-ND◆	.48	2.45	17.24	94.00	EEU-FC0J471
	560	8	11.5	3.5	0.60	35.28	0.117	555	2000	P12705-ND◆	.48	2.45	17.24	94.00	EEU-FC0J561
	820	10	12.5	5.0	0.60	51.66	0.090	755	3000	P12706-ND◆	.63	3.41	24.04	131.00	EEU-FC0J821
	820	8	15	3.5	0.60	51.6	0.085	730	2000	P10198-ND◆	.48	2.80	20.54	118.00	EEU-FC0J821L
	1000	10	12.5	5.0	0.60	63.0	0.090	755	3000	P10199-ND◆	.47	2.80	20.54	118.00	EEU-FC0J102
	1200	10	16	5.0	0.60	75.6	0.068	1050	3000	P10201-ND◆	.61	3.73	27.40	157.00	EEU-FC0J122
	1200	8	20	3.5	0.60	75.6	0.065	995	2000	P10200-ND◆	.53	3.26	23.97	138.00	EEU-FC0J122L
	1500	12.5	15	5.0	0.60	94.5	0.065	1205	5000	P10203-ND	.80	5.45	40.00	230.00	EEU-FC0J152S
	1500	10	20	5.0	0.60	94.5	0.052	1220	3000	P10202-ND◆	.73	4.48	32.88	189.00	EEU-FC0J152
	1800	10	25	5.0	0.60	113.4	0.045	1440	3000	P12707-ND◆	1.07	6.14	43.29	236.00	EEU-FC0J182
	2200	16	15	7.5	0.80	138.6	0.043	1690	5000	P10205-ND◆	1.05	7.23	54.20	320.00	EEU-FC0J222S
	2200	10	25	5.0	0.60	138.6	0.045	1440	3000	P10204-ND◆	.80	5.04	36.99	212.00	EEU-FC0J222
	2700	16	15	7.5	0.80	170.1	0.043	1690	5000	P11175-ND◆	1.51	9.40	66.25	361.00	EEU-FC0J272S
	2700	12.5	20	5.0	0.60	170.1	0.038	1655	5000	P12709-ND◆	1.30	7.67	54.09	295.00	EEU-FC0J272
	2700	10	30	5.0	0.60	170.1	0.035	1815	3000	P12708-ND◆	1.20	7.56	53.30	291.00	EEU-FC0J272L
	3300	18	15	7.5	0.80	207.9	0.038	2000	5000	P10207-ND◆	1.39	9.78	73.35	434.00	EEU-FC0J332S
	3300	12.5	20	5.0	0.60	207.9	0.038	1655	5000	P10206-ND◆	.90	5.90	44.26	262.00	EEU-FC0J332
	3900	12.5	25	5.0	0.60	245.7	0.030	1945	5000	P10208-ND◆	1.24	7.43	55.73	329.00	EEU-FC0J392
	4700	16	20	7.5	0.80	296.1	0.029	2205	5000	P10210-ND◆	1.41	9.18	68.85	407.00	EEU-FC0J472S
	4700	12.5	30	5.0	0.80	296.1	0.025	2310	5000	P10209-ND◆	1.26	7.65	57.38	339.00	EEU-FC0J472
	5600	16	20	7.5	0.80	352.8	0.029	2205	5000	P11176-ND◆	2.03	11.93	84.15	459.00	EEU-FC0J562
	5600	12.5	35	5.0	0.80	352.8	0.022	2510	5000	P10211-ND◆	1.39	9.97	74.79	442.00	EEU-FC0J562L
	6800	18	20	7.5	0.80	428.4	0.028	2490	5000	P10214-ND◆	1.61	11.01	83.06	540.00	EEU-FC0J682S
	6800	16	25	7.5	0.80	428.4	0.022	2555	5000	P10213-ND◆	1.66	10.93	81.97	485.00	EEU-FC0J682
	6800	12.5	40	5.0	0.80	428.4	0.018	2655	5000	P10212-ND	1.59	11.42	85.61	506.00	EEU-FC0J682L
	8200	16	31.5	7.5	0.80	516.6	0.018	3010	5000	P11177-ND◆	3.23	18.19	128.23	699.00	EEU-FC0J822
	10000	18	25	7.5	0.80	630.0	0.020	2740	5000	P10216-ND◆	2.04	13.90	104.92	682.00	EEU-FC0J103S
	10000	16	35.5	7.5	0.80	630.0	0.016	3150	5000	P10215-ND	1.99	14.15	106.76	694.00	EEU-FC0J103
	12000	18	31.5	7.5	0.80	756.0	0.016	3635	5000	P11178-ND	3.71	23.63	166.65	909.00	EEU-FC0J123
	12000	16	40	7.5	0.80	756.0	0.015	3360	5000	P11179-ND	3.76	22.93	161.70	882.00	EEU-FC0J123L
	15000	18	35.5	7.5	0.80	945.0	0.015	3680	5000	P10217-ND◆	2.71	17.38	131.14	852.00	EEU-FC0J153
10	47	4	11	1.5	0.45	4.7	1.30	120	1000	P11180-ND◆	.28	1.88	13.26	72.00	EEU-FC1A470
	82	5	11	2.0	0.50	8.2	0.80	175	1000	P10218-ND◆	.34	1.37	9.63	53.00	EEU-FC1A820
	100	5	11	2.0	0.50	10.0	0.80	175	1000	P11181-ND◆	.34	1.37	9.63	53.00	EEU-FC1A101S
	100	5	15	2.0	0.50	10.0	0.50	235	1000	P10219-ND◆	.30	2.01	14.19	77.00	EEU-FC1A101
	180	6.3	11.2	2.5	0.50	18.0	0.35	290	1000	P11182-ND◆	.34	1.70	12.02	66.00	EEU-FC1A181
	220	6.3	11.2	2.5	0.50	22.0	0.35	290	1000	P10220-ND◆	.28	1.53	10.93	61.00	EEU-FC1A221S
	220	6.3	15	2.5	0.50	22.0	0.25	400	1000	P11183-ND◆	.39	2.54	17.90	98.00	EEU-FC1A221
	330	8	11.5	3.5	0.60	33.0	0.117	555	2000	P11184-ND◆	.48	2.45	17.24	94.00	EEU-FC1A331
	390	8	11.5	3.5	0.60	39.0	0.117	555	2000	P11185-ND◆	.48	2.45	17.24	94.00	EEU-FC1A391
	470	8	11.5	3.5	0.60	47.0	0.117	555	2000	P10221-ND◆	.40	2.19	15.68	88.00	EEU-FC1A471
	560	10	12.5	5.0	0.60	56.0	0.09	755	3000	P11186-ND◆	.63	3.41	24.04	131.00	EEU-FC1A561
	680	10	12.5	5.0	0.60	68.0	0.090	755	3000	P10223-ND◆	.45	2.80	20.54	118.00	EEU-FC1A681
	680	8	15	3.5	0.60	68.0	0.085	730	2000	P10222-ND◆	.48	2.80	20.54	118.00	EEU-FC1A681L
	820	10	16	5.0	0.60	82.0	0.068	1050	3000	P11187-ND◆	.81	4.55	32.07	175.00	EEU-FC1A821
	1000	10	16	5.0	0.60	100.0	0.068	1050	3000	P10225-ND◆	.59	3.73	27.40	157.00	EEU-FC1A102
	1000	8	20	3.5	0.60	82.0	0.065	995	2000	P10224-ND◆	.53	3.26	23.97	138.00	EEU-FC1A102L
	1200	12.5	15	5.0	0.60	120.0	0.065	1205	5000	P10227-ND◆	.80	5.45	40.00	230.00	EEU-FC1A122S
	1200	10	20	5.0	0.60	120.0	0.052	1220	3000	P10226-ND◆	.72	4.48	32.88	189.00	EEU-FC1A122
	1500	10	25	5.0	0.60	150.0	0.045	1440	3000	P10228-ND◆	.80	5.04	36.99	212.00	EEU-FC1A152
	1800	16	15	7.5	0.80	180.0	0.043	1690	5000	P10229-ND◆	1.05	7.23	54.20	320.00	EEU-FC1A182S
	1800	12.5	20	5.0	0.60	180.0	0.038	1655	5000	P11188-ND◆	1.30	7.67	54.09	295.00	EEU-FC1A182
	2200	12.5	20	5.0	0.60	220.0	0.038	1655	5000	P10230-ND◆	.90	5.90	44.26	262.00	EEU-FC1A222
	2200	10	30	5.0	0.60	220.0	0.035	1815	3000	P11189-ND◆	1.20	7.56	53.30	291.00	EEU-FC1A222L
	2700	18	15	7.5	0.80	270.0	0.038	2000	5000	P10232-ND◆	1.39	9.78	73.35	434.00	EEU-FC1A272S
	2700	12.5	25	5.0	0.60	270.0	0.030	1945	5000	P10231-ND◆	1.20	7.43	55.73	329.00	EEU-FC1A272
	3300	16	20	7.5	0.80	330.0	0.029	2205	5000	P10234-ND◆	1.41	9.18	68.85	407.00	EEU-FC1A332S
	3300	12.5	30	5.0	0.80	330.0	0.025	2310	5000	P10233-ND◆	1.26	7.65	57.38	339.00	EEU-FC1A332
	3900	16	20	7.5	0.80	390.0	0.029	2205	5000	P11190-ND◆	2.13	11.93	84.15	459.00	EEU-FC1A392
	3900	12.5	35	5.0	0.80	390.0	0.022	2510	5000	P10235-ND◆	1.39	9.97	74.79	442.00	EEU-FC1A392L
	4700	16	25	7.5	0.80	470.0	0.022	2555	5000	P10237-ND◆	1.81	10.93	81.97	485.00	EEU-FC1A472
	4700	12.5	40	5.0	0.80	470.0	0.018	2655	5000	P10236-ND◆	1.53	11.42	85.61	506.00	EEU-FC1A472L
	5600	18	20	7.5	0.80	560.0	0.028	2490	5000	P10238-ND◆	1.61	11.01	83.06	540.00	EEU-FC1A562S
	5600	16	25	7.5	0.80	560.0	0.022	2555	5000	P11191-ND◆	2.60	14.21	100.18	546.00	EEU-FC1A562
	6800	18	25	7.5	0.80	680.0	0.020	2740	5000	P10240-ND◆	1.97	13.90	104.92	682.00	EEU-FC1A682S
	6800	16	31.5	7.5	0.80	680.0	0.018	3010	5000	P10239-ND◆	1.97	12.36	93.26	606.00	EEU-FC1A682
	8200	18	31.5	7.5	0.80	820.0	0.016	3635	5000	P11193-ND	3.71	23.63	166.65	909.00	EEU-FC1A822
	8200	16	35.5	7.5	0.80	820.0	0.016	3150	5000	P11192-ND◆	3.27	20.82	146.80	801.00	EEU-FC1A822L
	10000	18	35.5	7.5	0.80	1000.0	0.015	3680	5000	P10241-ND◆	2.71	17.38	131.14	852.00	EEU-FC1A103
	12000	18	40	7.5	0.80	1200.0	0.014	3735	5000	P11194-ND	4.77	30.12	212.41	1159.00	EEU-FC1A123
16	39	4	11	1.5	0.45	6.24	1.30	120	1000	P11195-ND◆	.28	1.88	13.26	72.00	EEU-FC1C390
	47	5	11	2.0	0.50	7.52	0.80	175	1000	P11196-ND◆	.34	1.37	9.63	53.00	EEU-FC1C470
	56	5	11	2.0	0.50	8.96	0.80	175	1000	P11197-ND◆	.34	1.37	9.63	53.00	EEU-FC1C560
	68	5	11	2.0	0.50	10.8	0.80	175	1000	P10242-ND◆	.34	1.37	9.63	53.00	EEU-FC1C680
	82	5	15	2.0	0.50	13.1	0.50	235	1000	P10243-ND◆	.30	2.01	14.19	77.00	EEU-FC1C820
	100	6.3	11.2	2.5	0.50	16.0	0.35	290	1000	P11198-ND◆	.34	1.70	12.02	66.00	EEU-FC1C101
	120	6.3	11.2	2.5	0.50	19.2	0.35	290	1000	P10244-ND◆	.28	1.53	10.93	61.00	EEU-FC1C121
	180	6.3	15	2.5	0.50	28.8	0.25	400	1000	P10245-ND◆	.32	2.28	16.28	91.00	EEU-FC1C181
	220	8	11.5	3.5	0.60	35.2	0.117	555	2000	P11199-ND◆	.48	2.45	17.24	94.00	EEU-FC1C221
	270	8	11.5	3.5	0.60	43.2	0.117	555	2000	P11200-ND◆	.46	2.45	17.24	94.00	EEU-FC1C271
	330	8	11.5	3.5	0.60	52.8	0.117	555	2000	P10246-ND◆	.40	2.19	15.68	88.00	EEU-FC1C331
	390	10	12.5	5.0	0.60	62.4	0.09	755	3000	P11201-ND◆	.63	3.41	24.04	131.00	EEU-FC1C391

◆ *RoHS Compliant*

(Continued)

Panasonic FC Series Radial Lead Aluminum Electrolytic Capacitors *(Cont.)*

W.V. (V)	Cap. (µF)	Dimensions (mm)				Leakage Current (20°C) (2 Min.) (µA) Maximum	Impedance (100kHz) (20°C) (Ω) Maximum	Ripple Current (105°C) (mA) rms Maximum	Life Time (hours)	Digi-Key Part No.	Pricing				Panasonic Part No.
		ØD	L	P	Ød						1	10	100	1,000	
16	470	10	12.5	5.0	0.60	75.2	0.090	755	3000	P10248-ND◆	.47	2.80	20.54	118.00	EEU-FC1C471
	470	8	15	3.5	0.60	75.2	0.085	730	2000	P10247-ND◆	.47	2.80	20.54	118.00	EEU-FC1C471L
	560	10	16	5.0	0.60	89.6	0.068	1050	3000	P11202-ND◆	.81	4.55	32.07	175.00	EEU-FC1C561
	680	10	16	5.0	0.60	108.8	0.068	1050	3000	P10250-ND◆	.51	3.73	27.40	157.00	EEU-FC1C681
	680	8	20	3.5	0.60	108.8	0.065	995	2000	P10249-ND◆	.56	3.26	23.97	138.00	EEU-FC1C681L
	820	12.5	15	5.0	0.60	131.2	0.065	1205	5000	P10252-ND◆	.80	5.45	40.00	230.00	EEU-FC1C821S
	820	10	20	5.0	0.60	131.2	0.052	1220	3000	P10251-ND◆	.74	4.48	32.88	189.00	EEU-FC1C821
	1000	10	20	5.0	0.60	160.0	0.052	1220	3000	P11203-ND◆	1.03	5.46	38.47	210.00	EEU-FC1C102S
	1000	10	25	5.0	0.60	160.0	0.045	1440	3000	P10253-ND◆	.77	5.04	36.99	212.00	EEU-FC1C102
	1200	16	15	7.5	0.80	192.0	0.043	1690	5000	P11205-ND◆	1.51	9.40	66.25	361.00	EEU-FC1C122S
	1200	10	25	5.0	0.60	192.0	0.045	1440	3000	P11204-ND◆	1.07	6.14	43.29	236.00	EEU-FC1C122
	1500	16	15	7.5	0.80	240.0	0.043	1690	5000	P11206-ND◆	1.56	9.40	66.25	361.00	EEU-FC1C152S
	1500	12.5	20	5.0	0.60	240.0	0.038	1655	5000	P10254-ND◆	.90	5.90	44.26	262.00	EEU-FC1C152
	1500	10.0	30	5.0	0.60	240.0	0.035	1815	3000	P10255-ND◆	.90	6.20	45.54	262.00	EEU-FC1C152L
	1800	18	15	7.5	0.80	288.0	0.038	2000	5000	P10256-ND◆	1.39	9.78	73.35	434.00	EEU-FC1C182S
	1800	12.5	25	5.0	0.60	288.0	0.03	1945	5000	P11207-ND◆	1.78	9.66	68.12	372.00	EEU-FC1C182
	2200	16	20	7.5	0.80	352.0	0.029	2205	5000	P10258-ND◆	1.41	9.18	68.85	407.00	EEU-FC1C222S
	2200	12.5	25	5.0	0.60	352.0	0.030	1945	5000	P10257-ND◆	1.14	7.43	55.73	329.00	EEU-FC1C222
	2700	16	20	7.5	0.80	432.0	0.029	2205	5000	P11208-ND◆	2.03	11.93	84.15	459.00	EEU-FC1C272
	2700	12.5	30	5.0	0.80	432.0	0.025	2310	5000	P10259-ND◆	1.26	7.65	57.38	339.00	EEU-FC1C272L
	3300	18	20	7.5	0.80	528.0	0.028	2490	5000	P10261-ND◆	1.61	11.01	83.06	540.00	EEU-FC1C332S
	3300	12.5	35	5.0	0.80	528.0	0.022	2510	5000	P10260-ND◆	1.35	9.97	74.79	442.00	EEU-FC1C332
	3900	18	20	7.5	0.80	624.0	0.028	2490	5000	P11209-ND◆	2.65	16.20	114.21	623.00	EEU-FC1C392S
	3900	16	25	7.5	0.80	624.0	0.022	2555	5000	P10262-ND◆	1.60	10.93	81.97	485.00	EEU-FC1C392
	4700	18	25	7.5	0.80	752.0	0.020	2740	5000	P10264-ND◆	1.97	13.90	104.92	682.00	EEU-FC1C472S
	4700	16	31.5	7.5	0.80	752.0	0.018	3010	5000	P10263-ND◆	1.97	12.36	93.26	606.00	EEU-FC1C472
	5600	18	31.5	7.5	0.80	896.0	0.016	3635	5000	P11210-ND◆	3.71	23.63	166.65	909.00	EEU-FC1C562
	5600	16	35.5	7.5	0.80	896.0	0.016	3150	5000	P10265-ND◆	1.87	14.15	106.76	694.00	EEU-FC1C562L
	6800	16	40	7.5	0.80	1088.0	0.015	3360	5000	P11211-ND◆	3.65	22.93	161.70	882.00	EEU-FC1C682
	8200	18	35.5	7.5	0.80	1312.0	0.015	3680	5000	P10266-ND◆	2.71	17.38	131.14	852.00	EEU-FC1C822
25	10	4	7	1.5	0.45	2.5	2	65	1000	P11212-ND◆	.30	1.25	8.83	48.00	EEA-FC1E100
	22	5	7	2	0.45	5.5	0.95	120	1000	P11213-ND◆	.32	1.37	9.63	53.00	EEA-FC1E220
	27	4	11	1.5	0.45	6.75	1.3	120	1000	P11214-ND◆	.28	1.88	13.26	72.00	EEU-FC1E270
	39	5	11	2	0.50	9.75	0.80	175	1000	P11215-ND◆	.28	1.87	13.20	72.00	EEU-FC1E390
	47	5	11	2.0	0.50	11.7	0.80	175	1000	P10267-ND◆	.28	1.87	13.20	72.00	EEU-FC1E470
	56	5	15	2.0	0.50	14.0	0.50	235	1000	P10268-ND◆	.30	2.01	14.19	77.00	EEU-FC1E560
	82	6.3	11.2	2.5	0.50	20.5	0.35	290	1000	P11216-ND◆	.33	1.70	12.02	66.00	EEU-FC1E820
	100	6.3	11.2	2.5	0.50	25.0	0.35	290	1000	P10269-ND◆	.23	1.53	10.93	61.00	EEU-FC1E101S
	120	6.3	15	2.5	0.50	30.0	0.25	400	1000	P10270-ND◆	.32	2.28	16.28	91.00	EEU-FC1E121
	180	8	11.5	3.5	0.60	45.0	0.117	555	2000	P11217-ND◆	.48	2.45	17.24	94.00	EEU-FC1E181
	220	8	11.5	3.5	0.60	55.0	0.117	555	2000	P10271-ND◆	.38	2.19	15.68	88.00	EEU-FC1E221
	270	10	12.5	5	0.60	67.5	0.09	755	3000	P11218-ND◆	.63	3.41	24.04	131.00	EEU-FC1E271
	330	10	12.5	5.0	0.60	82.5	0.090	755	3000	P10273-ND◆	.44	2.80	20.54	118.00	EEU-FC1E331
	330	8	15	3.5	0.60	82.5	0.085	730	2000	P10272-ND◆	.47	2.80	20.54	118.00	EEU-FC1E331L
	390	10	16	5	0.60	97.5	0.068	1050	3000	P11219-ND◆	.81	4.55	32.07	175.00	EEU-FC1E391
	470	10	16	5.0	0.60	117.5	0.068	1050	3000	P10275-ND◆	.57	3.73	27.40	157.00	EEU-FC1E471
	470	8	20	3.5	0.60	117.5	0.065	995	2000	P10274-ND◆	.53	3.26	23.97	138.00	EEU-FC1E471L
	560	12.5	15	5.0	0.60	140.0	0.065	1205	5000	P10276-ND◆	.80	5.45	40.00	230.00	EEU-FC1E561S
	560	10	20	5	0.60	140.0	0.052	1220	3000	P11220-ND◆	.93	5.46	38.47	210.00	EEU-FC1E561
	680	10	20	5.0	0.60	170.0	0.052	1220	3000	P10277-ND◆	.72	4.48	32.88	189.00	EEU-FC1E681
	820	12.5	20	5	0.60	205.0	0.038	1655	5000	P11222-ND◆	1.30	7.67	54.09	295.00	EEU-FC1E821S
	820	10	25	5	0.60	205.0	0.045	1440	3000	P11221-ND◆	1.07	6.14	43.29	236.00	EEU-FC1E821
	1000	16	15	7.5	0.80	250.0	0.043	1690	5000	P10279-ND◆	1.05	7.23	54.20	320.00	EEU-FC1E102S
	1000	12.5	20	5.0	0.60	250.0	0.038	1655	5000	P10278-ND◆	.87	5.90	44.26	262.00	EEU-FC1E102
	1000	10	30	5	0.60	250.0	0.035	1815	3000	P11223-ND◆	1.20	7.56	53.30	291.00	EEU-FC1E102L
	1200	18	15	7.5	0.80	300.0	0.038	2000	5000	P10280-ND◆	1.39	9.78	73.35	434.00	EEU-FC1E122S
	1200	12.5	25	5	0.60	300.0	0.03	1945	5000	P11224-ND◆	1.78	9.66	68.12	372.00	EEU-FC1E122
	1500	16	20	7.5	0.80	375.0	0.029	2205	5000	P10282-ND◆	1.41	9.18	68.85	407.00	EEU-FC1E152S
	1500	12.5	25	5.0	0.60	375.0	0.030	1945	5000	P10281-ND◆	1.24	7.43	55.73	329.00	EEU-FC1E152
	1800	16	20	7.5	0.80	450.0	0.029	2205	5000	P11225-ND◆	2.03	11.93	84.15	459.00	EEU-FC1E182
	1800	12.5	30	5.0	0.80	450.0	0.025	2310	5000	P10283-ND◆	1.26	7.65	57.38	339.00	EEU-FC1E182L
	2200	18	20	7.5	0.80	550.0	0.028	2490	5000	P10285-ND◆	1.61	11.01	83.06	540.00	EEU-FC1E222S
	2200	12.5	35	5.0	0.80	550.0	0.022	2510	5000	P10284-ND◆	1.35	9.97	74.79	442.00	EEU-FC1E222
	2700	16	25	7.5	0.80	675.0	0.022	2555	5000	P10286-ND◆	1.81	10.93	81.97	485.00	EEU-FC1E272
	3300	18	25	7.5	0.80	825.0	0.020	2740	5000	P10288-ND◆	1.97	13.90	104.92	682.00	EEU-FC1E332S
	3300	16	31.5	7.5	0.80	825.0	0.018	3010	5000	P10287-ND◆	1.97	12.36	93.26	606.00	EEU-FC1E332
	3900	18	31.5	7.5	0.80	975.0	0.016	3635	5000	P11227-ND◆	3.71	23.63	166.65	909.00	EEU-FC1E392
	3900	16	35.5	7.5	0.80	975.0	0.016	3150	5000	P11226-ND◆	3.27	20.82	146.80	801.00	EEU-FC1E392L
	4700	18	35.5	7.5	0.80	1175.0	0.015	3680	5000	P10289-ND◆	2.71	17.38	131.14	852.00	EEU-FC1E472
	5600	18	40	7.5	0.80	1400.0	0.014	3735	5000	P11228-ND◆	4.77	30.12	212.41	1159.00	EEU-FC1E562
35	18	4	11	1.5	0.45	6.3	1.3	120	1000	P11229-ND◆	.28	1.88	13.26	72.00	EEU-FC1V180
	22	5	11	2	0.50	7.7	0.80	175	1000	P11230-ND◆	.34	1.37	9.63	53.00	EEU-FC1V220
	27	5	11	2	0.50	9.45	0.80	175	1000	P11231-ND◆	.34	1.37	9.63	53.00	EEU-FC1V270
	33	5	11	2.0	0.50	11.5	0.80	175	1000	P10290-ND◆	.34	1.37	9.63	53.00	EEU-FC1V330
	39	5	15	2.0	0.50	13.6	0.50	235	1000	P10291-ND◆	.30	2.01	14.19	77.00	EEU-FC1V390
	47	6.3	11.2	2.5	0.50	16.45	0.35	290	1000	P11232-ND◆	.34	1.70	12.02	66.00	EEU-FC1V470
	56	6.3	11.2	2.5	0.50	19.6	0.35	290	1000	P11233-ND◆	.33	1.70	12.02	66.00	EEU-FC1V560
	68	6.3	11.2	2.5	0.50	23.8	0.35	290	1000	P10292-ND◆	.28	1.53	10.93	61.00	EEU-FC1V680
	82	6.3	15	2.5	0.50	28.7	0.25	400	1000	P10293-ND◆	.32	2.28	16.28	91.00	EEU-FC1V820
	100	8	11.5	3.5	0.60	35.0	0.117	555	2000	P10294-ND◆	.38	2.19	15.68	88.00	EEU-FC1V101
	120	8	11.5	3.5	0.60	42.0	0.117	555	2000	P11234-ND◆	.46	2.45	17.24	94.00	EEU-FC1V121
	150	8	11.5	3.5	0.60	52.5	0.117	555	2000	P10295-ND◆	.36	2.19	15.68	88.00	EEU-FC1V151
	180	10	12.5	5	0.60	63.0	0.09	755	3000	P11235-ND◆	.63	3.41	24.04	131.00	EEU-FC1V181
	220	10	12.5	5.0	0.60	77.0	0.090	755	3000	P10297-ND◆	.44	2.80	20.54	118.00	EEU-FC1V221
	220	8	15	3.5	0.60	77.0	0.085	730	2000	P10296-ND◆	.48	2.80	20.54	118.00	EEU-FC1V221L
	270	10	16	5	0.60	94.5	0.068	1050	3000	P11236-ND◆	.81	4.55	32.07	175.00	EEU-FC1V271
	390	12.5	15	5.0	0.60	136.5	0.065	1205	5000	P10300-ND◆	.80	5.45	40.00	230.00	EEU-FC1V391S
	330	10	16	5.0	0.60	115.5	0.068	1050	3000	P10299-ND◆	.61	3.73	27.40	157.00	EEU-FC1V331
	330	8	20	3.5	0.60	115.5	0.065	995	2000	P10298-ND◆	.56	3.26	23.97	138.00	EEU-FC1V331L
	390	10	20	5	0.60	136.5	0.052	1220	3000	P11237-ND◆	.96	5.46	38.47	210.00	EEU-FC1V391
	470	10	20	5.0	0.60	164.5	0.052	1220	3000	P10301-ND◆	.72	4.48	32.88	189.00	EEU-FC1V471
	560	12.5	20	5	0.60	196.0	0.038	1655	5000	P11239-ND◆	1.25	7.67	54.09	295.00	EEU-FC1V561S
	560	10	25	5	0.60	196.0	0.045	1440	3000	P11238-ND◆	1.07	6.14	43.29	236.00	EEU-FC1V561
	680	16	15	7.5	0.80	238.0	0.043	1690	5000	P10303-ND◆	1.01	7.23	54.20	320.00	EEU-FC1V681S
	680	12.5	20	5.0	0.60	238.0	0.038	1655	5000	P10302-ND◆	.90	5.90	44.26	262.00	EEU-FC1V681
	680	10	30	5	0.60	238.0	0.035	1815	3000	P11240-ND◆	1.20	7.56	53.30	291.00	EEU-FC1V681L
	820	18	15	7.5	0.80	287.0	0.038	2000	5000	P10304-ND◆	1.35	9.78	73.35	434.00	EEU-FC1V821
	820	12.5	25	5	0.60	287.0	0.03	1945	5000	P11241-ND◆	1.78	9.66	68.12	372.00	EEU-FC1V821L
	1000	16	20	7.5	0.80	350.0	0.029	2205	5000	P10876-ND◆	1.42	9.18	68.85	407.00	EEU-FC1V102S
	1000	12.5	25	5.0	0.60	350.0	0.030	1945	5000	P10305-ND◆	1.11	7.43	55.73	329.00	EEU-FC1V102
	1200	16	20	7.5	0.80	420.0	0.029	2205	5000	P11242-ND◆	2.03	11.93	84.15	459.00	EEU-FC1V122
	1200	12.5	30	5.0	0.80	420.0	0.025	2310	5000	P10306-ND◆	1.26	7.65	57.38	339.00	EEU-FC1V122L
	1500	18	20	7.5	0.80	525.0	0.028	2490	5000	P11243-ND◆	2.65	16.20	114.21	623.00	EEU-FC1V152S
	1500	16	25	7.5	0.80	525.0	0.022	2555	5000	P10308-ND◆	1.81	10.93	81.97	485.00	EEU-FC1V152
	1500	12.5	35	5.0	0.80	525.0	0.022	2510	5000	P10307-ND◆	1.39	9.97	74.79	442.00	EEU-FC1V152L
	1800	18	20	7.5	0.80	630.0	0.028	2490	5000	P11246-ND◆	2.65	16.20	114.21	623.00	EEU-FC1V182S
	1800	16	25	7.5	0.80	630.0	0.022	2555	5000	P11245-ND◆	2.39	14.21	100.18	546.00	EEU-FC1V182
	1800	12.5	40	5	0.80	630.0	0.018	2655	5000	P11244-ND◆	2.29	14.84	104.64	571.00	EEU-FC1V182L

◆ ***RoHS Compliant***

(Continued)

W.V. (V)	Cap. (µF)	Dimensions (mm)				Leakage Current (20°C) (2 Min.) (µA) Maximum	Impedance (100kHz) (20°C) (Ω) Maximum	Ripple Current (105°C) (mA) rms Maximum	Life Time (hours)	Digi-Key Part No.	Pricing				Panasonic Part No.
		ØD	L	P	Ød						1	10	100	1,000	
35	2200	18	25	7.5	0.80	770.0	0.020	2740	5000	P10310-ND◆	1.97	13.90	104.92	682.00	EEU-FC1V222S
	2200	16	31.5	7.5	0.80	770.0	0.018	3010	5000	P10309-ND◆	1.78	12.36	93.26	606.00	EEU-FC1V222
	2700	18	31.5	7.5	0.80	945.0	0.016	3635	5000	P11248-ND◆	3.71	23.63	166.65	909.00	EEU-FC1V272
	2700	16	35.5	7.5	0.80	945.0	0.016	3150	5000	P11247-ND◆	3.27	20.82	146.80	801.00	EEU-FC1V272L
	3300	18	35.5	7.5	0.80	1155.0	0.015	3680	5000	P10311-ND◆	2.71	17.38	131.14	852.00	EEU-FC1V332
	3900	18	40	7.5	0.80	1365.0	0.014	3735	5000	P11249-ND◆	4.77	30.12	212.41	1159.00	EEU-FC1V392
50	1.0	5	11	2.0	0.50	0.5	2.40	20	1000	P10312-ND◆	.27	1.37	9.63	53.00	EEU-FC1H1R0
	2.2	5	11	2.0	0.50	1.1	1.30	45	1000	P10313-ND◆	.27	1.37	9.63	53.00	EEU-FC1H2R2
	3.3	5	11	2.0	0.50	1.6	1.30	65	1000	P10314-ND◆	.34	1.37	9.63	53.00	EEU-FC1H3R3
	4.7	5	11	2.0	0.50	2.3	1.30	95	1000	P10315-ND◆	.27	1.37	9.63	53.00	EEU-FC1H4R7
	10	4	11	1.5	0.45	5.0	2.5	90	1000	P11250-ND◆	.28	1.88	13.26	72.00	EEU-FC1H100
	10	5	11	2.0	0.50	5.0	1.30	125	1000	P10316-ND◆	.34	1.37	9.63	53.00	EEU-FC1H100L
	15	5	11	2.0	0.50	7.5	1.30	145	1000	P10317-ND◆	.34	1.37	9.63	53.00	EEU-FC1H150
	18	5	11	2	0.50	9.0	1.3	155	1000	P11251-ND◆	.34	1.37	9.63	53.00	EEU-FC1H180
	22	5	11	2.0	0.50	11.0	1.30	155	1000	P10318-ND◆	.34	1.37	9.63	53.00	EEU-FC1H220
	27	5	15	2.0	0.50	13.5	0.90	215	1000	P10319-ND◆	.30	2.01	14.19	77.00	EEU-FC1H270
	33	6.3	11.2	2.5	0.50	16.5	0.60	260	1000	P10320-ND◆	.27	1.53	10.93	61.00	EEU-FC1H330
	47	6.3	11.2	2.5	0.50	23.5	0.60	260	1000	P10321-ND◆	.28	1.53	10.93	61.00	EEU-FC1H470
	56	6.3	15	2.5	0.50	28.0	0.40	360	1000	P10322-ND◆	.32	2.28	16.28	91.00	EEU-FC1H560
	68	8	11.5	3.5	0.60	34.0	0.234	485	2000	P11252-ND◆	.48	2.45	17.24	94.00	EEU-FC1H680
	82	8	11.5	3.5	0.60	41.0	0.234	485	2000	P11253-ND◆	.43	2.45	17.24	94.00	EEU-FC1H820
	100	10	12.5	5.0	0.60	50.0	0.162	615	3000	P10323-ND◆	.44	2.80	20.54	118.00	EEU-FC1H101
	120	10	12.5	5	0.60	60.0	0.162	615	3000	P11255-ND◆	.63	3.41	24.04	131.00	EEU-FC1H121
	120	8	15	3.5	0.60	60.0	0.155	635	2000	P11254-ND◆	.65	3.41	24.04	131.00	EEU-FC1H121L
	150	10	16	5	0.60	75.0	0.119	850	3000	P11256-ND◆	.81	4.55	32.07	175.00	EEU-FC1H151
	180	8	20	3.5	0.60	90.0	0.120	860	2000	P10324-ND◆	.56	3.26	23.97	138.00	EEU-FC1H181L
	220	12.5	15	5.0	0.60	110.0	0.110	1150	5000	P10326-ND◆	.80	5.45	40.00	230.00	EEU-FC1H221S
	220	10	20	5.0	0.60	110.0	0.090	1030	3000	P10325-ND◆	.72	4.48	32.88	189.00	EEU-FC1H221
	270	10	25	5	0.60	135.0	0.082	1200	3000	P11257-ND◆	1.07	6.14	43.29	236.00	EEU-FC1H271
	330	12.5	20	5	0.60	165.0	0.063	1480	5000	P11258-ND◆	1.30	7.67	54.09	295.00	EEU-FC1H331
	390	16	15	7.5	0.80	195.0	0.080	1610	5000	P10327-ND◆	1.05	7.23	54.20	320.00	EEU-FC1H391S
	390	12.5	20	5	0.60	195.0	0.063	1480	5000	P11259-ND◆	1.30	7.67	54.09	295.00	EEU-FC1H391
	470	12.5	25	5.0	0.60	235.0	0.050	1832	5000	P10328-ND◆	1.08	7.43	55.73	329.00	EEU-FC1H471
	470	10	30	5	0.60	235.0	0.06	1610	3000	P11260-ND◆	1.20	7.56	53.30	291.00	EEU-FC1H471L
	560	18	15	7.5	0.80	280.0	0.068	1900	5000	P10329-ND◆	1.39	9.78	73.35	434.00	EEU-FC1H561S
	560	12.5	25	5	0.60	280.0	0.05	1832	5000	P11261-ND◆	1.78	9.66	68.12	372.00	EEU-FC1H561
	680	16	20	7.5	0.80	340.0	0.048	1835	5000	P10331-ND◆	1.41	9.18	68.85	407.00	EEU-FC1H681
	680	12.5	30	5.0	0.80	340.0	0.040	2215	5000	P10330-ND◆	1.26	7.65	57.38	339.00	EEU-FC1H681L
	820	18	20	7.5	0.80	410.0	0.042	2420	5000	P11262-ND◆	2.65	16.20	114.21	623.00	EEU-FC1H821
	820	12.5	35	5.0	0.80	410.0	0.034	2285	5000	P10332-ND◆	1.39	9.97	74.79	442.00	EEU-FC1H821L
	1000	16	25	7.5	0.80	500.0	0.034	2235	5000	P10333-ND◆	1.75	10.93	81.97	485.00	EEU-FC1H102
	1000	12.5	40	5	0.80	500.0	0.03	2590	5000	P11263-ND◆	2.29	14.84	104.64	571.00	EEU-FC1H102L
	1200	18	25	7.5	0.80	600.0	0.029	2610	5000	P11265-ND◆	3.23	20.46	144.27	787.00	EEU-FC1H122S
	1200	16	31.5	7.5	0.80	600.0	0.028	2700	5000	P11264-ND◆	3.23	18.19	128.23	699.00	EEU-FC1H122
	1500	16	35.5	7.5	0.80	750.0	0.025	2790	5000	P10334-ND◆	1.99	14.15	106.76	694.00	EEU-FC1H152L
	1800	18	31.5	7.5	0.80	900.0	0.025	3000	5000	P11267-ND◆	3.58	23.63	166.65	909.00	EEU-FC1H182
	1800	16	40	7.5	0.80	900.0	0.023	2845	5000	P11266-ND◆	3.51	22.93	161.70	882.00	EEU-FC1H182L
	2200	18	35.5	7.5	0.80	1100.0	0.023	3100	5000	P10335-ND◆	2.60	17.38	131.14	852.00	EEU-FC1H222
63	6.8	4	11	1.5	0.45	4.284	3.5	80	1000	P11268-ND◆	.28	1.88	13.26	72.00	EEU-FC1J6R8
	12	5	11	2.0	0.50	7.5	2.00	145	1000	P10336-ND◆	.34	1.37	9.63	53.00	EEU-FC1J120
	18	5	15	2.0	0.50	11.3	1.30	200	1000	P10337-ND◆	.30	2.01	14.19	77.00	EEU-FC1J180
	22	6.3	11.2	2.5	0.50	13.8	1.00	240	1000	P10338-ND◆	.27	1.53	10.93	61.00	EEU-FC1J220
	33	6.3	11.2	2.5	0.50	20.7	1.000	240	1000	P10764-ND◆	.29	1.53	10.93	61.00	EEU-FC1J330
	39	6.3	15	2.5	0.50	24.5	0.70	330	1000	P10339-ND◆	.32	2.28	16.28	91.00	EEU-FC1J390
	47	8	11.5	3.5	0.60	29.6	0.342	405	2000	P10340-ND◆	.38	2.19	15.68	88.00	EEU-FC1J470
	68	8	11.5	3.5	0.60	42.8	0.342	405	2000	P10341-ND◆	.40	2.19	15.68	88.00	EEU-FC1J680
	56	8	11.5	3.5	0.60	35.28	0.342	405	2000	P11269-ND◆	.48	2.45	17.24	94.00	EEU-FC1J560
	82	10	12.5	5	0.60	51.66	0.256	535	3000	P11270-ND◆	.63	3.41	24.04	131.00	EEU-FC1J820
	100	10	12.5	5.0	0.60	63.0	0.256	535	3000	P10343-ND◆	.44	2.80	20.54	118.00	EEU-FC1J101
	100	8	15	3.5	0.60	63.0	0.230	535	2000	P10342-ND◆	.40	2.80	20.54	118.00	EEU-FC1J101L
	120	10	16	5	0.60	75.6	0.194	600	3000	P11271-ND◆	.81	4.55	32.07	175.00	EEU-FC1J121
	150	8	20	3.5	0.60	94.5	0.178	690	2000	P10344-ND◆	.56	3.26	23.97	138.00	EEU-FC1J151
	180	12.5	15	5.0	0.60	113.4	0.150	1020	5000	P10345-ND◆	.80	5.45	40.00	230.00	EEU-FC1J181S
	180	10	20	5	0.60	113.4	0.147	885	3000	P11272-ND◆	.99	5.46	38.47	210.00	EEU-FC1J181
	220	12.5	20	5.0	0.60	138.6	0.085	1285	5000	P10347-ND◆	.90	5.90	44.26	262.00	EEU-FC1J221S
	220	10	25	5.0	0.60	138.6	0.130	1050	3000	P10346-ND◆	.68	5.04	36.99	212.00	EEU-FC1J221
	270	16	15	7.5	0.80	170.1	0.090	1410	5000	P10348-ND◆	1.05	7.23	54.20	320.00	EEU-FC1J271
	330	12.5	20	5.0	0.60	207.9	0.085	1285	5000	P10349-ND◆	.87	5.90	44.26	262.00	EEU-FC1J331
	330	10	30	5	0.60	207.9	0.09	1300	3000	P11273-ND◆	1.20	7.56	53.30	291.00	EEU-FC1J331L
	390	18	15	7.5	0.80	245.7	0.086	1690	5000	P10350-ND◆	1.39	9.78	73.35	434.00	EEU-FC1J391S
	390	12.5	25	5	0.60	245.7	0.07	1720	5000	P11274-ND◆	1.78	9.66	68.12	372.00	EEU-FC1J391
	470	16	20	7.5	0.80	296.1	0.059	1765	5000	P10352-ND◆	1.36	9.18	68.85	407.00	EEU-FC1J471
	470	12.5	30	5.0	0.80	296.1	0.055	2090	5000	P10351-ND◆	1.26	7.65	57.38	339.00	EEU-FC1J471L
	560	16	25	7.5	0.80	352.8	0.05	2160	5000	P11275-ND◆	2.60	14.21	100.18	546.00	EEU-FC1J561
	680	18	20	7.5	0.80	428.4	0.055	2290	5000	P11276-ND◆	2.65	16.20	114.21	623.00	EEU-FC1J681S
	680	16	25	7.5	0.80	428.4	0.050	2160	5000	P10354-ND◆	1.78	10.93	81.97	485.00	EEU-FC1J681
	680	12.5	35	5.0	0.80	428.4	0.047	2265	5000	P10353-ND◆	1.35	9.97	74.79	442.00	EEU-FC1J681L
	820	18	25	7.5	0.80	516.6	0.043	2585	5000	P11279-ND◆	3.23	20.46	144.27	787.00	EEU-FC1J821S
	820	16	31.5	7.5	0.80	516.6	0.043	2670	5000	P11278-ND◆	3.23	18.19	128.23	699.00	EEU-FC1J821
	820	12.5	40	5	0.80	516.6	0.042	2560	5000	P11277-ND◆	2.29	14.84	104.64	571.00	EEU-FC1J821L
	1000	16	31.5	7.5	0.80	630.0	0.043	2670	5000	P11280-ND◆	3.33	18.19	128.23	699.00	EEU-FC1J102U
	1000	16	35.5	7.5	0.80	630.0	0.036	2770	5000	P10355-ND◆	1.99	14.15	106.76	694.00	EEU-FC1J102
	1200	16	40	7.5	0.80	756.0	0.032	2950	5000	P11282-ND	3.65	22.93	161.70	882.00	EEU-FC1J122L
	1200	18	31.5	7.5	0.80	756.0	0.03	2825	5000	P11281-ND◆	3.71	23.63	166.65	909.00	EEU-FC1J122
	1500	18	35.5	7.5	0.80	945.0	0.030	3095	5000	P10356-ND◆	2.71	17.38	131.14	852.00	EEU-FC1J152
	1800	18	40	7.5	0.80	1134.0	0.025	3205	5000	P11283-ND◆	4.77	30.12	212.41	1159.00	EEU-FC1J182
100	1.0	5	11	2.0	0.50	1.0	7.500	15	1000	P10765-ND◆	.24	1.33	9.48	53.00	EEU-FC2A1R0
	2.2	5	11	2.0	0.50	2.2	5.400	35	1000	P10766-ND◆	.30	1.33	9.48	53.00	EEU-FC2A2R2
	3.3	5	11	2.0	0.50	3.3	4.400	50	1000	P10767-ND◆	.30	1.33	9.48	53.00	EEU-FC2A3R3
	4.7	5	11	2.0	0.50	4.7	4.400	65	1000	P10768-ND◆	.30	1.33	9.48	53.00	EEU-FC2A4R7
	10	6.3	11.2	2.5	0.50	10.0	1.800	114	1000	P10769-ND◆	.31	1.68	12.03	67.00	EEU-FC2A100
	22	8	11.5	3.5	0.60	22.0	0.680	260	2000	P10770-ND◆	.44	2.40	17.13	96.00	EEU-FC2A220
	33	10	12.5	5.0	0.60	33.0	0.530	306	3000	P10771-ND◆	.51	3.08	22.61	130.00	EEU-FC2A330
	33	8	15	3.5	0.60	33.0	0.450	340	2000	P10772-ND◆	.54	3.08	22.61	130.00	EEU-FC2A330L
	47	10	20	5.0	0.60	47.0	0.240	463	3000	P10773-ND◆	.82	4.92	36.17	208.00	EEU-FC2A470
	68	10	25	5.0	0.60	68.0	0.210	599	3000	P10774-ND◆	.88	5.55	40.75	234.00	EEU-FC2A680L
	100	12.5	20	5.0	0.60	100.0	0.180	671	5000	P10776-ND◆	1.01	6.51	48.85	289.00	EEU-FC2A101
	100	10	30	5.0	0.60	100.0	0.150	698	3000	P10775-ND◆	.93	6.38	47.86	283.00	EEU-FC2A101L
	150	18	15	7.5	0.80	150.0	0.120	917	5000	P10778-ND◆	1.55	10.76	80.69	477.00	EEU-FC2A151S
	150	12.5	25	5.0	0.60	150.0	0.110	807	5000	P10777-ND◆	1.15	7.95	59.60	352.00	EEU-FC2A151
	220	16	25	7.5	0.80	220.0	0.089	1170	5000	P10780-ND◆	1.76	10.62	80.14	521.00	EEU-FC2A221
	220	12.5	35	5.0	0.80	220.0	0.087	1040	5000	P10779-ND◆	1.55	10.97	82.26	486.00	EEU-FC2A221L
	270	12.5	40	5.0	0.80	270.0	0.072	1130	5000	P10781-ND◆	1.55	11.09	83.70	544.00	EEU-FC2A271L
	330	18	25	7.5	0.80	330.0	0.070	1420	5000	P10783-ND◆	2.21	15.45	116.58	758.00	EEU-FC2A331S
	330	16	31.5	7.5	0.80	330.0	0.062	1520	5000	P10782-ND◆	2.19	13.59	102.58	667.00	EEU-FC2A331
	390	16	35.5	7.5	0.80	390.0	0.053	1730	5000	P10784-ND◆	2.21	15.56	117.42	763.00	EEU-FC2A391L
	470	16	40	7.5	0.80	470.0	0.047	1920	5000	P10874-ND◆	2.47	17.14	129.36	841.00	EEU-FC2A471
	680	18	40	7.5	0.80	680.0	0.036	2300	5000	P10875-ND◆	3.28	22.52	169.94	1105.00	EEU-FC2A681

◆ ***RoHS Compliant***

Panasonic® FM Series Radial Lead Aluminum Electrolytic Capacitors

RoHS COMPLIANT

FEATURES:

• Low Impedance: 40 ~ 70% lower than FC Series • High Ripple Current: 50% higher than FC Series • Long Life: 2000 ~ 7000 hours at 105°C • PVC free, Pb free • Appearance: Black body with gold markings

SPECIFICATIONS:

• **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01 CV (µA) measured after 2 minutes application of rated working voltage at 20°C

• **tan** δ (120 Hz, 20°C)

Working volt. (VDC)	6.3	10	16	25	35	50
tan δ max.	0.22	0.19	0.16	0.14	0.12	0.10

For capacitance value > 1000µF, add 0.02 per every 1000µF.

• **Impedance at High Frequency:** Refer to standard product table • **Ripple Current:** Refer to standard product table (100kHz, 105°C)

Endurance:

Test Conditions — Duration: 3000 hours (for Ø8x11.5 ~ 15mm), 4000 hours (for Ø8x20, Ø10x12.5 ~ 16mm), 5000 hours (for Ø10x20 ~ 25, Ø12.5x20, Ø16x20mm), 7000 hours (for Ø12.5x25 ~ 35, Ø16x25mm) • **Ambient Temperature:** 105°C ±2°C • **Applied Voltage:** DC voltage with maximum permissible ripple current specified at 105°C (the sum of the DC voltage and super-imposed peak AC voltage for maximum permissible ripple current should be equal to rated DC working voltage.)

Post Test Requirements at 20°C — Leakage Current: ≤ Initial specified value • **Capacitance change:** 16V ~ 50V: ±25% of initial measured value (6.3V ~ 10V: ±30%) • **tan** δ: ≤ 200% of initial specified value

Shelf Life: After storage for 1000 hours at 105 ±2°C with no voltage applied and then being stabilized at 20°C, capacitor shall meet the limits specified in Endurance. (With voltage treatment)

Frequency Correction Factor for Ripple Current

W.V. (VDC)	**Frequency (Hz)** / **Cap. (µF)**	**60**	**120**	**1K**	**10K**	**100K**
6.3 ~ 50	22 ~ 33	0.45	0.55	0.75	0.90	1.00
	47 ~ 330	0.60	0.70	0.85	0.95	1.00
	390 ~ 1000	0.65	0.75	0.90	0.98	1.00
	1200 ~ 6800	0.75	0.80	0.95	1.00	1.00

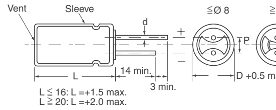

W.V. (VDC)	Cap. (µF)	Dimensions (mm) ØD	L	P	Ød	Leakage Current (20°C) (2 min.) (µA) Maximum	Impedance (100kHz) (20°C) (Ω) Maximum	Ripple Current (1000kHz @ 105°C) (mA) rms Maximum	Life Time (hours)	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
6.3	150	5	11	2.0	0.5	9.5	0.300	280	2000	P12917-ND	.16	1.16	8.30	46.48	EEU-FM0J151
	330	6	11.2	2.5	0.5	20.8	0.130	455	2000	P12918-ND	.20	1.45	10.35	57.96	EEU-FM0J331
	560	8	11.5	3.5	0.6	35.3	0.056	950	3000	P12348-ND	.32	2.16	15.25	83.19	EEU-FM0J561
	820	8	15	3.5	0.6	51.7	0.041	1240	3000	P12352-ND	.37	2.71	19.35	108.36	EEU-FM0J821L
	1000	10	12.5	5.0	0.6	63.0	0.038	1290	4000	P12340-ND	.37	2.74	19.55	109.48	EEU-FM0J102
	1200	10	16	5.0	0.6	75.6	0.026	1790	4000	P12341-ND	.50	3.65	26.07	145.98	EEU-FM0J122
	1200	8	20	3.5	0.6	75.6	0.030	1560	4000	P12342-ND	.43	3.16	22.58	126.42	EEU-FM0J122L
	1500	10	20	5.0	0.6	94.5	0.019	2180	5000	P12343-ND	.59	4.38	31.28	175.14	EEU-FM0J152
	2200	10	25	5.0	0.6	138.6	0.018	2470	5000	P12344-ND	.61	4.50	33.06	189.95	EEU-FM0J222L
	3300	12.5	20	5.0	0.6	207.9	0.018	2600	5000	P12345-ND	.76	5.63	41.35	237.55	EEU-FM0J332
	3900	12.5	25	5.0	0.6	245.7	0.015	3190	7000	P12346-ND	.95	7.09	52.07	299.13	EEU-FM0J392
	4700	12.5	30	5.0	0.8	296.1	0.013	3630	7000	P12347-ND	.98	7.30	53.60	307.94	EEU-FM0J472L
	5600	12.5	35	5.0	0.8	352.8	0.012	3750	7000	P12349-ND	1.34	10.05	75.41	445.76	EEU-FM0J562L
	5600	16	20	7.5	0.8	352.8	0.017	3300	5000	P12350-ND	1.09	8.21	61.58	364.02	EEU-FM0J562S
	6800	16	25	7.5	0.8	428.4	0.014	3820	7000	P12351-ND	1.30	9.77	73.31	433.31	EEU-FM0J682
10	100	5	11	2.0	0.5	10.0	0.300	280	2000	P12919-ND	.16	1.16	8.30	46.48	EEU-FM1A101
	220	6	11.2	2.5	0.5	22.0	0.130	455	2000	P12920-ND	.20	1.45	10.35	57.96	EEU-FM1A221
	470	8	11.5	3.5	0.6	47.0	0.056	950	3000	P12361-ND	.32	2.16	15.25	83.19	EEU-FM1A471
	680	10	12.5	5.0	0.6	68.0	0.038	1290	4000	P12364-ND	.37	2.74	19.55	109.48	EEU-FM1A681
	680	8	15	3.5	0.6	68.0	0.041	1240	3000	P12365-ND	.37	2.71	19.35	108.36	EEU-FM1A681L
	1000	10	16	5.0	0.6	100.0	0.026	1790	4000	P12353-ND	.50	3.65	26.07	145.98	EEU-FM1A102
	1000	8	20	3.5	0.6	100.0	0.030	1560	4000	P12354-ND	.50	3.65	26.07	145.98	EEU-FM1A102L
	1200	10	20	5.0	0.6	120.0	0.019	2180	5000	P12355-ND	.59	4.38	31.28	175.14	EEU-FM1A122
	1500	10	25	5.0	0.6	150.0	0.018	2470	5000	P12356-ND	.61	4.50	33.06	189.95	EEU-FM1A152L
	2200	12.5	20	5.0	0.6	220.0	0.018	2600	5000	P12357-ND	.76	5.63	41.35	237.55	EEU-FM1A222
	3300	12.5	25	5.0	0.6	330.0	0.015	3190	7000	P12735-ND	.95	7.09	52.07	299.13	EEU-FM1A332
	3900	12.5	30	5.0	0.8	390.0	0.013	3630	7000	P12736-ND	.98	7.30	53.60	307.94	EEU-FM1A392L
	3900	16	20	7.5	0.8	390.0	0.017	3300	5000	P12737-ND	1.09	8.21	61.58	364.02	EEU-FM1A392S
	4700	12.5	35	5.0	0.8	470.0	0.012	3750	7000	P12362-ND	1.34	10.05	75.41	445.76	EEU-FM1A472L
	5600	16	25	7.5	0.8	560.0	0.014	3820	7000	P12363-ND	1.30	9.77	73.31	433.31	EEU-FM1A562
16	68	5	11	2.0	0.5	10.9	0.300	280	2000	P12921-ND	.16	1.16	8.30	46.48	EEU-FM1C680
	120	6	11.2	2.5	0.5	19.2	0.130	455	2000	P12922-ND	.20	1.45	10.35	57.96	EEU-FM1C121
	330	8	11.5	3.5	0.6	52.8	0.056	950	3000	P12372-ND	.32	2.16	15.25	83.19	EEU-FM1C331
	470	10	12.5	5.0	0.6	75.2	0.038	1290	4000	P12375-ND	.37	2.74	19.55	109.48	EEU-FM1C471
	470	8	15	3.5	0.6	75.2	0.041	1240	3000	P12376-ND	.37	2.71	19.35	108.36	EEU-FM1C471L
	680	10	16	5.0	0.6	108.8	0.026	1790	4000	P12377-ND	.50	3.65	26.07	145.98	EEU-FM1C681
	680	8	20	3.5	0.6	108.8	0.030	1560	4000	P12378-ND	.43	3.16	22.58	126.42	EEU-FM1C681L
	1000	10	20	5.0	0.6	160.0	0.019	2180	5000	P12366-ND	.59	4.38	31.28	175.14	EEU-FM1C102
	1200	10	25	5.0	0.6	192.0	0.018	2470	5000	P12367-ND	.61	4.50	33.06	189.95	EEU-FM1C122L
	1500	12.5	20	5.0	0.6	240.0	0.018	2600	5000	P12368-ND	.76	5.63	41.35	237.55	EEU-FM1C152
	2200	12.5	25	5.0	0.6	352.0	0.015	3190	7000	P12369-ND	.95	7.09	52.07	299.13	EEU-FM1C222
	2700	12.5	30	5.0	0.8	432.0	0.013	3630	7000	P12370-ND	.98	7.30	53.60	307.94	EEU-FM1C272L
	2700	16	20	7.5	0.8	432.0	0.017	3300	5000	P12371-ND	1.09	8.21	61.58	364.02	EEU-FM1C272S
	3300	12.5	35	5.0	0.8	528.0	0.012	3750	7000	P12373-ND	1.34	10.05	75.41	445.76	EEU-FM1C332L
	3900	16	25	7.5	0.8	624.0	0.014	3820	7000	P12374-ND	1.30	9.77	73.31	433.31	EEU-FM1C392
25	47	5	11	2.0	0.5	11.8	0.300	280	2000	P12923-ND	.16	1.16	8.30	46.48	EEU-FM1E470
	100	6	11.2	2.5	0.5	25.0	0.130	455	2000	P12924-ND	.20	1.44	10.28	57.54	EEU-FM1E101
	220	8	11.5	3.5	0.6	55.0	0.056	950	3000	P12383-ND	.32	2.16	15.25	83.19	EEU-FM1E221
	330	10	12.5	5.0	0.6	82.5	0.038	1290	4000	P12386-ND	.37	2.74	19.55	109.48	EEU-FM1E331
	330	8	15	3.5	0.6	82.5	0.041	1240	3000	P12387-ND	.37	2.71	19.35	108.36	EEU-FM1E331L
	470	10	16	5.0	0.6	117.5	0.026	1790	4000	P12388-ND	.50	3.65	26.07	145.98	EEU-FM1E471
	470	8	20	3.5	0.6	117.5	0.030	1560	4000	P12389-ND	.43	3.16	22.58	126.42	EEU-FM1E471L
	680	10	20	5.0	0.6	170.0	0.019	2180	5000	P12390-ND	.59	4.38	31.28	175.14	EEU-FM1E681
	820	10	25	5.0	0.6	205.0	0.018	2470	5000	P12391-ND	.61	4.50	33.06	189.95	EEU-FM1E821L
	1000	12.5	20	5.0	0.6	250.0	0.018	2600	5000	P12379-ND	.76	5.63	41.35	237.55	EEU-FM1E102
	1500	12.5	25	5.0	0.6	375.0	0.015	3190	7000	P12380-ND	.95	7.09	52.07	299.13	EEU-FM1E152
	1800	12.5	30	5.0	0.8	450.0	0.013	3630	7000	P12381-ND	.98	7.30	53.60	307.94	EEU-FM1E182L
	1800	16	20	7.5	0.8	450.0	0.017	3300	5000	P12382-ND	1.09	8.21	61.58	364.02	EEU-FM1E182S
	2200	12.5	35	5.0	0.8	550.0	0.012	3750	7000	P12384-ND	1.34	10.05	75.41	445.76	EEU-FM1E222L
	2700	16	25	7.5	0.8	675.0	0.014	3820	7000	P12385-ND	1.30	9.77	73.31	433.31	EEU-FM1E272
35	33	5	11	2.0	0.5	11.6	0.300	280	2000	P12925-ND	.16	1.16	8.30	46.48	EEU-FM1V330
	68	6	11.2	2.5	0.5	23.8	0.130	455	2000	P12926-ND	.20	1.44	10.28	57.54	EEU-FM1V680
	150	8	11.5	3.5	0.6	52.5	0.056	950	3000	P12408-ND	.32	2.16	15.25	83.19	EEU-FM1V151
	220	10	12.5	5.0	0.6	77.0	0.038	1290	4000	P12411-ND	.37	2.74	19.55	109.48	EEU-FM1V221
	220	8	15	3.5	0.6	77.0	0.041	1240	3000	P12412-ND	.37	2.71	19.35	108.36	EEU-FM1V221L
	330	10	16	5.0	0.6	115.5	0.026	1790	4000	P12413-ND	.50	3.65	26.07	145.98	EEU-FM1V331
	330	8	20	3.5	0.6	115.5	0.030	1560	4000	P12414-ND	.43	3.16	22.58	126.42	EEU-FM1V331L
	470	10	20	5.0	0.6	164.5	0.019	2180	5000	P12415-ND	.59	4.38	31.28	175.14	EEU-FM1V471
	560	10	25	5.0	0.6	196.0	0.018	2470	5000	P12416-ND	.61	4.50	33.06	189.95	EEU-FM1V561L
	680	12.5	20	5.0	0.6	238.0	0.018	2600	5000	P12417-ND	.76	5.63	41.35	237.55	EEU-FM1V681
	1000	12.5	25	5.0	0.6	350.0	0.015	3190	7000	P12405-ND	.95	7.09	52.07	299.13	EEU-FM1V102
	1200	12.5	30	5.0	0.8	420.0	0.013	3630	7000	P12406-ND	.98	7.30	53.60	307.94	EEU-FM1V122L
	1200	16	20	7.5	0.8	420.0	0.017	3300	5000	P12407-ND	1.09	8.21	61.58	364.02	EEU-FM1V122S
	1500	12.5	35	5.0	0.8	525.0	0.012	3750	7000	P12409-ND	1.34	10.05	75.41	445.76	EEU-FM1V152L
	1800	16	25	7.5	0.8	630.0	0.014	3820	7000	P12410-ND	1.30	9.77	73.31	433.31	EEU-FM1V182
50	22	5	11	2.0	0.5	11.0	0.340	250	2000	P12927-ND	.16	1.16	8.30	46.48	EEU-FM1H220
	56	6	11.2	2.5	0.5	28.0	0.140	405	2000	P12928-ND	.20	1.44	10.28	57.54	EEU-FM1H560
	100	8	11.5	3.5	0.6	50.0	0.061	870	3000	P12392-ND	.32	2.16	15.25	83.19	EEU-FM1H101
	120	8	15	3.5	0.6	60.0	0.045	1140	3000	P12394-ND	.37	2.71	19.35	108.36	EEU-FM1H121L
	150	10	12.5	5.0	0.6	75.0	0.042	1170	4000	P12395-ND	.37	2.74	19.55	109.48	EEU-FM1H151
	180	8	20	3.5	0.6	90.0	0.033	1430	4000	P12396-ND	.43	3.16	22.58	126.42	EEU-FM1H181L
	220	10	16	5.0	0.6	110.0	0.030	1650	4000	P12397-ND	.50	3.65	26.07	145.98	EEU-FM1H221
	270	10	20	5.0	0.6	135.0	0.023	1890	5000	P12398-ND	.59	4.38	31.28	175.14	EEU-FM1H271
	330	10	25	5.0	0.6	165.0	0.022	2150	5000	P12399-ND	.61	4.50	33.06	189.95	EEU-FM1H331L
	470	12.5	20	5.0	0.6	235.0	0.022	2260	5000	P12400-ND	.76	5.63	41.35	237.55	EEU-FM1H471
	560	12.5	25	5.0	0.6	280.0	0.018	2660	7000	P12401-ND	.95	7.09	52.07	299.13	EEU-FM1H561
	680	12.5	30	5.0	0.8	340.0	0.016	3160	7000	P12402-ND	.98	7.30	53.60	307.94	EEU-FM1H681L
	820	12.5	35	5.0	0.8	410.0	0.014	3270	7000	P12403-ND	1.34	10.05	75.41	445.76	EEU-FM1H821L
	820	16	20	7.5	0.8	410.0	0.019	2870	5000	P12404-ND	1.09	8.21	61.58	364.02	EEU-FM1H821S
	1000	16	25	7.5	0.8	500.0	0.016	3320	7000	P12393-ND	1.30	9.77	73.31	433.31	EEU-FM1H102

Panasonic® EB Series

Radial Lead Type Capacitor for High Ripple Long Life Applications

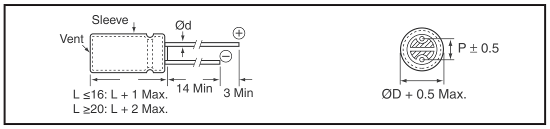

FEATURES: • High Ripple (High Frequency) • Life Time: 105°C 5,000 ~ 10,000 hours

MAIN APPLICATION: Electronic Ballast, Power supply

SPECIFICATIONS: • **Operating Temperature Range:** **10 ~ 63VDC:** -40°C ~ 105°C, **160 ~ 450VDC:** -25°C ~ 105°C • **Rated Working Voltage Range:** 10 ~ 450 VDC • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** **10 ~ 63VDC:** I ≤ 0.01 CV or 3µ A, **160 ~ 450VDC:** I ≤ 0.06 CV + 10µA, after 2 minutes application of rated working voltage at 20°C, which ever is greater. • **Endurance:** After following life test with DC voltage and 105±2°C ripple current value applied (the sum of DC and ripple peak voltage shall not exceed the rated working voltage), the capacitors shall meet the limits. **10 ~ 63VDC:** Duration: 5,000 ~ 10,000 hours. *Capacitance change:* ±30% of initial measured value *tan* δ*:* ≤ 300% of initial specified value. *DC Leakage Current:* ≤ initial specified value. **160 ~ 450VDC:** Duration 5,000 hours. *Capacitance change:* ±20% of initial measured value. *DF:* ≤ 200% of initial specified value. *DC Leakage Current:* ≤ initial specified value • **Shelf Life:** After storage for 1,000 hours at 105±2°C with no voltage applied and then being stabilized at ±20°C, capacitors shall meet the limits specified in "Endurance" (with voltage treatment).

(10 ~ 63 VDC) **Ripple Current Frequency Multiplier**

Capacitance (µF)	Frequency (Hz)				
	60	120	1k	10k	100k
0.47 ~ 10	0.75	1	1.40	1.55	1.65
22 ~ 470	0.85	1	1.20	1.25	1.30
1000 ~ 3300	0.95	1	1.05	1.10	1.15

W.V. (VDC)	Frequency (Hz)			
	120	1k	10k ~ 30k	30k ~ 100k
160 ~ 250	0.55	0.85	0.90	1.00
350 ~ 450	0.50	0.80	0.90	1.00

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	tan δ (120Hz/20°C) Maximum	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm) øD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
10	100	10	0.30	105 @ 120kHz	7000	5	15	2.0	0.5	P13114-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1A101
	100	10	0.30	66 @ 120kHz	5000	5	11	2.0	0.5	P13455-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1A101S
	220	22	0.30	152 @ 120kHz	7000	6.3	15	2.5	0.5	P13116-ND	.26	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1A221
	220	22	0.30	100 @ 120kHz	5000	6.3	11.2	2.5	0.5	P13456-ND	.14	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EBIA221S
	470	47	0.30	278 @ 120kHz	10000	8	15	3.5	0.6	P13118-ND	.36	2.54	19.86	126.75	118.30/M	109.85/M	EEU-EB1A471
	470	47	0.30	180 @ 120kHz	5000	8	11.5	3.5	0.6	P13457-ND	.21	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1A471S
	2200	220	0.32	540 @ 120kHz	10000	12.5	20	5.0	0.6	P13115-ND	.80	5.68	44.51	284.10	265.16/M	246.22/M	EEU-EB1A222
	3300	330	0.34	802 @ 120kHz	10000	12.5	25	5.0	0.6	P13117-ND	.96	6.78	53.09	338.85	316.26/M	293.67/M	EEU-EB1A332
16	1000	160	0.25	430 @ 120kHz	10000	10	20	5.0	0.6	P13119-ND	.56	3.93	30.81	196.65	183.54/M	170.43/M	EEU-EB1C102
	2200	352	0.27	706 @ 120kHz	10000	12.5	25	5.0	0.6	P13120-ND	.96	6.78	53.09	338.85	316.26/M	293.67/M	EEU-EB1C222
25	47	11.75	0.22	78 @ 120kHz	7000	5	15	2.0	0.5	P13125-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1E470
	47	11.75	0.22	55 @ 120kHz	5000	5	11	2.0	0.5	P13458-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1E470S
	100	25	0.22	135 @ 120kHz	7000	6.3	15	2.5	0.5	P13122-ND	.26	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1E101
	100	25	0.22	95 @ 120kHz	5000	6.3	11.2	2.5	0.5	P13476-ND	.14	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1E101S
	220	55	0.22	125 @ 120kHz	5000	8	11.5	3.5	0.6	P13477-ND	.21	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1E221S
	330	82.5	0.22	255 @ 120kHz	10000	8	15	3.5	0.6	P13123-ND	.36	2.54	19.86	126.75	118.30/M	109.85/M	EEU-EB1E331
	470	117.5	0.22	321 @ 120kHz	10000	10	16	5.0	0.6	P13124-ND	.48	3.41	26.72	170.55	159.18/M	147.81/M	EEU-EB1E471
	1000	250	0.22	498 @ 120kHz	10000	12.5	20	5.0	0.6	P13121-ND	.80	5.68	44.51	284.10	265.16/M	246.22/M	EEU-EB1E102
35	33	11.55	0.18	66 @ 120kHz	7000	5	15	2.0	0.5	P13129-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1V330
	33	11.55	0.18	46 @ 120kHz	5000	5	11	2.0	0.5	P13475-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1V330S
	220	77	0.18	197 @ 120kHz	10000	8	15	3.5	0.6	P13127-ND	.36	2.54	19.86	126.75	118.30/M	109.85/M	EEU-EB1V221
	330	115.5	0.18	278 @ 120kHz	10000	10	16	5.0	0.6	P13128-ND	.48	3.41	26.72	170.55	159.18/M	147.81/M	EEU-EB1V331
	470	164.5	0.18	349 @ 120kHz	10000	10	20	5.0	0.6	P13130-ND	.56	3.93	30.81	196.65	183.54/M	170.43/M	EEU-EB1V471
	1000	350	0.18	586 @ 120kHz	10000	12.5	25	5.0	0.6	P13126-ND	.96	6.78	53.09	338.85	316.26/M	293.67/M	EEU-EB1V102
50	.47	3	0.15	4 @ 120kHz	5000	5	11	2.0	0.5	P13466-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1HR47S
	1.0	3	0.15	8 @ 120kHz	5000	5	11	2.0	0.5	P13460-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1H1R0S
	2.2	3	0.15	15 @ 120kHz	5000	5	11	2.0	0.5	P13462-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1H2R2S
	3.3	3	0.15	18 @ 120kHz	5000	5	11	2.0	0.5	P13463-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1H3R3S
	4.7	3	0.15	18 @ 120kHz	5000	5	11	2.0	0.5	P13465-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1HR47S
	10	5	0.15	27 @ 120kHz	5000	5	11	2.0	0.5	P13478-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1H100S
	22	11	0.15	55 @ 120kHz	7000	5	15	2.0	0.5	P13132-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1H220
	22	11	0.15	39 @ 120kHz	5000	5	11	2.0	0.5	P13461-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1H220S
	47	23.5	0.15	87 @ 120kHz	7000	6.3	15	2.5	0.5	P13135-ND	.26	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1H470
	47	23.5	0.15	61 @ 120kHz	5000	6.3	11.2	2.5	0.5	P13464-ND	.14	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1H470S
	100	50	0.15	99 @ 120kHz	5000	8	11.5	3.5	0.6	P13459-ND	.21	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1H101S
	220	110	0.15	234 @ 120kHz	10000	10	16	5.0	0.6	P13131-ND	.48	3.41	26.72	170.55	159.18/M	147.81/M	EEU-EB1H221
	330	165	0.15	293 @ 120kHz	10000	10	20	5.0	0.6	P13133-ND	.56	3.93	30.81	196.65	183.54/M	170.43/M	EEU-EB1H331
	470	235	0.15	370 @ 120kHz	10000	12.5	20	5.0	0.6	P13134-ND	.80	5.68	44.51	284.10	265.16/M	246.22/M	EEU-EB1H471
63	0.47	3	0.12	6 @ 120kHz	7000	5	15	2.0	0.5	P13136-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1JR47
	0.47	3	0.12	4.5 @ 120kHz	5000	5	11	2.0	0.5	P13474-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1JR47S
	1.0	3	0.12	12 @ 120kHz	7000	5	15	2.0	0.5	P13139-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1J1R0
	1.0	3	0.12	9 @ 120kHz	5000	5	11	2.0	0.5	P13468-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1J1R0S
	2.2	3	0.12	22 @ 120kHz	7000	5	15	2.0	0.5	P13140-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1J2R2
	2.2	3	0.12	16.5 @ 120kHz	5000	5	11	2.0	0.5	P13469-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1J2R2S
	3.3	3	0.12	30 @ 120kHz	7000	5	15	2.0	0.5	P13143-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1J3R3
	3.3	3	0.12	20 @ 120kHz	5000	5	11	2.0	0.5	P13471-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1J3R3S
	4.7	3	0.12	30 @ 120kHz	7000	5	15	2.0	0.5	P13146-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1J4R7
	4.7	3	0.12	23 @ 120kHz	5000	5	11	2.0	0.5	P13473-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1J4R7S
	10	6.3	0.12	46 @ 120kHz	7000	5	15	2.0	0.5	P13138-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1J100
	10	6.3	0.12	30 @ 120kHz	5000	5	11	2.0	0.5	P13467-ND	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1J100S
	22	13.86	0.12	55 @ 120kHz	7000	6.3	15	2.5	0.5	P13142-ND	.26	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1J220
	33	20.79	0.12	71 @ 120kHz	7000	6.3	15	2.5	0.5	P13145-ND	.26	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1J330
	33	20.79	0.12	50 @ 120kHz	5000	6.3	11.2	2.5	0.5	P13470-ND	.14	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1J330S
	47	29.61	0.12	94 @ 120kHz	10000	8	15	3.5	0.6	P13148-ND	.36	2.54	19.86	126.75	118.30/M	109.85/M	EEU-EB1J470
	47	29.61	0.12	80 @ 120kHz	5000	8	11.5	3.5	0.6	P13472-ND	.21	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1J470S
	100	63	0.12	180 @ 120kHz	10000	8	15	3.5	0.6	P13137-ND	.36	2.54	19.86	126.75	118.30/M	109.85/M	EEU-EB1J101
	220	138.6	0.12	292 @ 120kHz	10000	10	20	5.0	0.6	P13141-ND	.56	3.93	30.81	196.65	183.54/M	170.43/M	EEU-EB1J221
	330	207.9	0.12	381 @ 120kHz	10000	12.5	20	5.0	0.6	P13144-ND	.80	5.68	44.51	284.10	265.16/M	246.22/M	EEU-EB1J331
	470	296.1	0.12	454 @ 120kHz	10000	12.5	25	5.0	0.6	P13147-ND	.96	6.78	53.09	338.85	316.26/M	293.67/M	EEU-EB1J471
160	22	221.2	0.15	470 @ 100kHz	5000	10	20	5.0	0.6	P5900-ND	.67	3.93	30.81	196.00	185.00/M	170.00/M	EEU-EB2C220
	33	326.8	0.15	470 @ 100kHz	5000	10	20	5.0	0.6	P5901-ND	.67	3.93	30.81	196.00	185.00/M	170.00/M	EEU-EB2C330
	47	461.2	0.15	600 @ 100kHz	5000	12.5	20	5.0	0.6	P5902-ND	.85	5.90	46.22	294.00	277.00/M	255.00/M	EEU-EB2C470
	68	662.8	0.15	750 @ 100kHz	5000	12.5	25	5.0	0.6	P5903-ND	1.09	6.78	53.09	337.00	318.00/M	293.00/M	EEU-EB2C680
	68	662.8	0.15	750 @ 100kHz	5000	16	20	7.5	0.8	P5904-ND	1.31	10.05	78.75	500.00	472.00/M	435.00/M	EEU-EB2C680S
	100	970.0	0.15	1060 @ 100kHz	5000	16	25	7.5	0.8	P5905-ND	1.31	10.05	78.75	500.00	472.00/M	435.00/M	EEU-EB2C101
	100	970.0	0.15	1060 @ 100kHz	5000	18	20	7.5	0.8	P5906-ND	1.53	13.11	102.72	652.00	616.00/M	568.00/M	EEU-EB2C101S
	150	1450.0	0.15	1280 @ 100kHz	5000	16	31.5	7.5	0.8	P5907-ND	1.67	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2C151
	150	1450.0	0.15	1280 @ 100kHz	5000	18	25	7.5	0.8	P5908-ND	2.20	14.43	113.01	718.00	677.00/M	625.00/M	EEU-EB2C151S
	220	2122.0	0.15	1280 @ 100kHz	5000	16	31.5	7.5	0.8	P5909-ND	2.04	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2C221
	220	2122.0	0.15	1280 @ 100kHz	5000	18	25	7.5	0.8	P5910-ND	2.20	14.43	113.01	718.00	677.00/M	625.00/M	EEU-EB2C221S
	330	3178.0	0.15	1690 @ 100kHz	5000	18	31.5	7.5	0.8	P5911-ND	2.04	17.49	136.98	870.00	821.00/M	757.00/M	EEU-EB2C331
200	22	274.0	0.15	470 @ 100kHz	5000	10	20	5.0	0.6	P5912-ND	.64	3.93	30.81	196.00	185.00/M	170.00/M	EEU-EB2D220
	33	406.0	0.15	600 @ 100kHz	5000	12.5	20	5.0	0.6	P5913-ND	.94	5.90	46.22	294.00	277.00/M	255.00/M	EEU-EB2D330
	47	574.0	0.15	600 @ 100kHz	5000	12.5	20	5.0	0.6	P5914-ND	.97	6.12	47.94	304.00	287.00/M	265.00/M	EEU-EB2D470
	68	826.0	0.15	750 @ 100kHz	5000	12.5	25	5.0	0.6	P5915-ND	1.33	7.87	61.64	391.00	369.00/M	341.00/M	EEU-EB2D680

(Continued)

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	tan δ (120Hz/20°C) Maximum	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
						øD	L	P	ød		1	10	100	1,000	5,000	10,000	
200	68	826.0	0.15	750 @ 100kHz	5000	16	20	7.5	0.8	P5916-ND	1.72	10.05	78.75	500.00	472.00/M	435.00/M	EEU-EB2D680S
	100	1210.0	0.15	1060 @ 100kHz	5000	16	25	7.5	0.8	P5917-ND	1.72	10.05	78.75	500.00	472.00/M	435.00/M	EEU-EB2D101
	100	1210.0	0.15	1060 @ 100kHz	5000	18	20	7.5	0.8	P5918-ND	1.93	13.11	102.72	652.00	616.00/M	568.00/M	EEU-EB2D101S
	150	1810.0	0.15	1280 @ 100kHz	5000	16	31.5	7.5	0.8	P5919-ND	2.03	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2D151
	150	1810.0	0.15	1280 @ 100kHz	5000	18	25	7.5	0.8	P5920-ND	2.24	14.43	113.01	718.00	677.00/M	625.00/M	EEU-EB2D151S
	220	2650.0	0.15	1690 @ 100kHz	5000	18	31.5	7.5	0.8	P5921-ND	2.04	17.49	136.98	870.00	821.00/M	757.00/M	EEU-EB2D221
250	22	340.0	0.15	560 @ 100kHz	5000	12.5	20	5.0	0.6	P5922-ND	.94	6.34	49.66	315.00	298.00/M	274.00/M	EEU-EB2E220
	33	505.0	0.15	560 @ 100kHz	5000	12.5	20	5.0	0.6	P5923-ND	.94	6.34	49.66	315.00	298.00/M	274.00/M	EEU-EB2E330
	47	715.0	0.15	710 @ 100kHz	5000	12.5	25	5.0	0.6	P5924-ND	1.22	7.87	61.64	391.00	369.00/M	341.00/M	EEU-EB2E470
	47	715.0	0.15	710 @ 100kHz	5000	16	20	7.5	0.8	P5925-ND	1.65	10.05	78.75	500.00	472.00/M	435.00/M	EEU-EB2E470S
	68	1030.0	0.15	990 @ 100kHz	5000	16	25	7.5	0.8	P5926-ND	1.65	10.05	78.75	500.00	472.00/M	435.00/M	EEU-EB2E680
	68	1030.0	0.15	990 @ 100kHz	5000	18	20	7.5	0.8	P5927-ND	1.85	13.11	102.72	652.00	616.00/M	568.00/M	EEU-EB2E680S
	100	1510.0	0.15	1200 @ 100kHz	5000	16	31.5	7.5	0.8	P5928-ND	2.03	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2E101
	100	1510.0	0.15	1200 @ 100kHz	5000	18	25	7.5	0.8	P5929-ND	2.02	14.43	113.01	718.00	677.00/M	625.00/M	EEU-EB2E101S
	150	2260.0	0.15	1470 @ 100kHz	5000	18	31.5	7.5	0.8	P5930-ND	2.04	17.49	136.98	870.00	821.00/M	757.00/M	EEU-EB2E151
350	10	220.0	0.20	270 @ 100kHz	5000	10	20	5.0	0.6	P5931-ND	.71	4.59	35.96	228.00	215.00/M	199.00/M	EEU-EB2V100
	22	472.0	0.20	350 @ 100kHz	5000	12.5	20	5.0	0.6	P5932-ND	.97	6.99	54.78	348.00	328.00/M	303.00/M	EEU-EB2V220
	33	703.0	0.20	480 @ 100kHz	5000	16	20	7.5	0.8	P5933-ND	1.56	10.93	85.61	544.00	513.00/M	473.00/M	EEU-EB2V330S
	47	997.0	0.20	640 @ 100kHz	5000	16	25	7.5	0.8	P5934-ND	1.87	11.80	92.45	587.00	554.00/M	511.00/M	EEU-EB2V470
	47	997.0	0.20	640 @ 100kHz	5000	18	20	7.5	0.8	P5935-ND	2.03	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2V470S
	68	1438.0	0.20	780 @ 100kHz	5000	16	31.5	7.5	0.8	P5936-ND	2.49	17.05	133.55	848.00	800.00/M	738.00/M	EEU-EB2V680
	68	1438.0	0.20	780 @ 100kHz	5000	18	25	7.5	0.8	P5937-ND	2.49	17.05	133.55	848.00	800.00/M	738.00/M	EEU-EB2V680S
	100	2110.0	0.20	970 @ 100kHz	5000	18	31.5	7.5	0.8	P5938-ND	2.35	20.11	157.52	1000.00	944.00/M	871.00/M	EEU-EB2V101
400	10	250.0	0.24	250 @ 100kHz	5000	10	20	5.0	0.6	P5939-ND	.78	4.59	35.96	228.00	215.00/M	199.00/M	EEU-EB2G100
	22	538.0	0.24	410 @ 100kHz	5000	12.5	25	5.0	0.6	P5940-ND	1.22	8.74	68.48	435.00	410.00/M	378.00/M	EEU-EB2G220
	22	538.0	0.24	410 @ 100kHz	5000	16	20	7.5	0.8	P5941-ND	1.43	10.93	85.61	544.00	513.00/M	473.00/M	EEU-EB2G220S
	33	802.0	0.24	600 @ 100kHz	5000	16	25	7.5	0.8	P5942-ND	1.87	11.80	92.45	587.00	554.00/M	511.00/M	EEU-EB2G330
	33	802.0	0.24	600 @ 100kHz	5000	18	20	7.5	0.8	P5943-ND	2.03	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2G330S
	47	1138.0	0.24	730 @ 100kHz	5000	16	31.5	7.5	0.8	P5944-ND	2.70	17.05	133.55	848.00	800.00/M	738.00/M	EEU-EB2G470
	47	1138.0	0.24	730 @ 100kHz	5000	18	25	7.5	0.8	P5945-ND	2.70	17.05	133.55	848.00	800.00/M	738.00/M	EEU-EB2G470S
450	10	280.0	0.24	310 @ 100kHz	5000	12.5	20	5.0	0.6	P5946-ND	1.07	6.99	54.78	348.00	328.00/M	303.00/M	EEU-EB2W100
	22	604.0	0.24	560 @ 100kHz	5000	16	25	7.5	0.8	P5947-ND	1.79	11.80	92.45	587.00	554.00/M	511.00/M	EEU-EB2W220
	22	604.0	0.24	560 @ 100kHz	5000	18	20	7.5	0.8	P5948-ND	1.88	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2W220S
	33	901.0	0.24	680 @ 100kHz	5000	16	31.5	7.5	0.8	P5949-ND	2.29	17.05	133.55	848.00	800.00/M	738.00/M	EEU-EB2W330
	33	901.0	0.24	680 @ 100kHz	5000	18	25	7.5	0.8	P5950-ND	2.57	15.74	123.28	783.00	739.00/M	681.00/M	EEU-EB2W330S
	47	1279.0	0.24	850 @ 100kHz	5000	18	31.5	7.5	0.8	P5951-ND	2.35	20.11	157.52	1000.00	944.00/M	871.00/M	EEU-EB2W470

ED Series

FEATURES:

- High Ripple (High Frequency) • Life Time: 8,000 ~ 10,000 hours @ 105°C

MAIN APPLICATION:

Electronic Ballast, Power Supply Input Circuit

SPECIFICATIONS:

• **Operating Temperature Range:** -25°C ~ 105°C • **Rated Working Voltage Range:** 160 ~ 450 VDC • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.06 CV + 10µA, after 2 minutes application of rated working voltage at 20°C whichever is greater • **Endurance:** After following life test with DC voltage and 105±2°C ripple current value applied (the sum of DC and ripple peak voltage shall not exceed the rated working voltage), the capacitors shall meet the limits. *Capacitance change:* ±20% of initial measured value *tan δ:* ≤ 200% of initial specified value. *DC Leakage Current:* ≤ initial specified value. • **Shelf Life:** After storage for 1,000 hours at 105±2°C with no voltage applied and then being stabilized at ±20°C, capacitors shall meet the limits specified in "Endurance" (with voltage treatment).

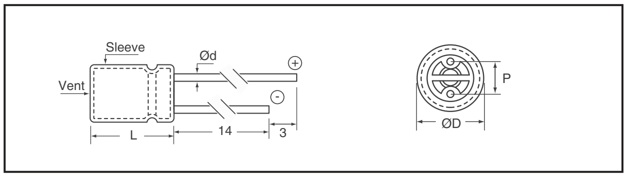

Ripple Current Frequency Multiplier

Capacitance (µF)	Frequency (Hz)					
	50	120	300	1k	10k	30k
Cap. < 100 µF	0.30	0.40	0.55	0.70	0.90	1.00
100 µF ≤ Cap.	0.35	0.45	0.60	0.75	0.90	1.00

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	tan δ (120Hz/20°C) Maximum	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
						øD	L	P	ød		1	10	100	1,000	5,000	10,000	
160	22	221.2	0.15	500@100kHz	8000	10	20	5.0	0.6	P13510-ND	.59	4.14	32.43	207.00	193.20/M	179.40/M	EEU-ED2C220
	33	326.8	0.15	580@100kHz	8000	10	20	5.0	0.6	P13513-ND	.59	4.14	32.43	207.00	193.20/M	179.40/M	EEU-ED2C330
	47	461.2	0.15	750@100kHz	8000	10	20	5.0	0.6	P13515-ND	.59	4.14	32.43	207.00	193.20/M	179.40/M	EEU-ED2C470
	68	662.8	0.15	950@100kHz	10000	12.5	20	5.0	0.6	P13516-ND	.91	6.42	50.29	321.00	299.60/M	278.20/M	EEU-ED2C680
	82	797.2	0.15	1060@100kHz	10000	12.5	25	5.0	0.6	P13517-ND	1.17	8.28	64.86	414.00	386.40/M	358.80/M	EEU-ED2C820
	100	970.0	0.15	1170@100kHz	10000	12.5	25	5.0	0.6	P13506-ND	1.17	8.28	64.86	414.00	386.40/M	358.80/M	EEU-ED2C101
	100	970.0	0.15	1280@100kHz	10000	16	20	7.5	0.8	P13507-ND	1.48	10.47	82.02	523.50	488.60/M	453.70/M	EEU-ED2C101S
	150	1450.0	0.15	1400@100kHz	10000	16	25	7.5	0.8	P13508-ND	1.61	11.34	88.83	567.00	529.20/M	491.40/M	EEU-ED2C151
	150	1450.0	0.15	1400@100kHz	10000	18	20	7.5	0.8	P13509-ND	1.92	13.53	105.99	676.50	631.40/M	586.30/M	EEU-ED2C151S
	220	2122.0	0.15	1700@100kHz	10000	16	31.5	7.5	0.8	P13511-ND	2.10	14.82	116.09	741.00	691.60/M	642.20/M	EEU-ED2C221
	220	2122.0	0.15	1500@100kHz	10000	18	25	7.5	0.8	P13512-ND	2.16	15.27	119.62	763.50	712.60/M	661.70/M	EEU-ED2C221S
	330	3178	0.15	2000@100kHz	10000	18	31.5	7.5	0.8	P13514-ND	4.02	28.35	222.08	1417.50	1323.00/M	1228.50/M	EEU-ED2C331
200	22	274.0	0.15	600@100kHz	8000	10	20	5.0	0.6	P13521-ND	.59	4.14	32.43	207.00	193.20/M	179.40/M	EEU-ED2D220
	33	406.0	0.15	650@100kHz	8000	10	20	5.0	0.6	P13523-ND	.59	4.14	32.43	207.00	193.20/M	179.40/M	EEU-ED2D330
	47	574.0	0.15	790@100kHz	10000	12.5	20	5.0	0.6	P13525-ND	.91	6.42	50.29	321.00	299.60/M	278.20/M	EEU-ED2D470
	68	826.0	0.15	950@100kHz	10000	12.5	25	5.0	0.6	P13526-ND	1.17	8.28	64.86	414.00	386.40/M	358.80/M	EEU-ED2D680
	68	826.0	0.15	950@100kHz	10000	16	20	7.5	0.8	P13527-ND	1.48	10.47	82.02	523.50	488.60/M	453.70/M	EEU-ED2D680S
	82	994.0	0.15	1100@100kHz	10000	16	20	7.5	0.8	P13528-ND	1.48	10.47	82.02	523.50	488.60/M	453.70/M	EEU-ED2D820S
	100	1210.0	0.15	1300@100kHz	10000	16	25	7.5	0.8	P13518-ND	1.61	11.34	88.83	567.00	529.20/M	491.40/M	EEU-ED2D101
	100	1210.0	0.15	1280@100kHz	10000	18	20	7.5	0.8	P13519-ND	1.92	13.53	105.99	676.50	631.40/M	586.30/M	EEU-ED2D101S
	150	1810.0	0.15	1400@100kHz	10000	16	25	7.5	0.8	P13520-ND	1.61	11.34	88.83	567.00	529.20/M	491.40/M	EEU-ED2D151
	220	2650.0	0.15	2000@100kHz	10000	18	31.5	7.5	0.8	P13522-ND	4.02	28.35	222.08	1417.50	1323.00/M	1228.50/M	EEU-ED2D221
	330	3970.0	0.15	2400@100kHz	10000	18	40	7.5	0.8	P13524-ND	5.44	38.40	300.80	1920.00	1792.00/M	1664.00/M	EEU-ED2D331
250	22	340.0	0.15	560@100kHz	8000	10	20	5.0	0.6	P13532-ND	.59	4.14	32.43	207.00	193.20/M	179.40/M	EEU-ED2E220
	33	505.0	0.15	710@100kHz	10000	12.5	20	5.0	0.6	P13534-ND	.91	6.42	50.29	321.00	299.60/M	278.20/M	EEU-ED2E330
	47	715.0	0.15	920@100kHz	10000	12.5	25	5.0	0.6	P13535-ND	1.17	8.28	64.86	414.00	386.40/M	358.80/M	EEU-ED2E470
	47	715.0	0.15	990@100kHz	10000	16	20	7.5	0.8	P13536-ND	1.48	10.47	82.02	523.50	488.60/M	453.70/M	EEU-ED2E470S
	68	1030.0	0.15	1000@100kHz	10000	16	20	7.5	0.8	P13537-ND	1.48	10.47	82.02	523.50	488.60/M	453.70/M	EEU-ED2E680S
	82	1240.0	0.15	1200@100kHz	10000	16	25	7.5	0.8	P13538-ND	1.61	11.34	88.83	567.00	529.20/M	491.40/M	EEU-ED2E820
	82	1240.0	0.15	1200@100kHz	10000	18	20	7.5	0.8	P13539-ND	1.92	13.53	105.99	676.50	631.40/M	586.30/M	EEU-ED2E820S
	100	1510.0	0.15	1500@100kHz	10000	16	31.5	7.5	0.8	P13529-ND	2.10	14.82	116.09	741.00	691.60/M	642.20/M	EEU-ED2E101
	100	1510.0	0.15	1500@100kHz	10000	18	25	7.5	0.8	P13530-ND	2.16	15.27	119.62	763.50	712.60/M	661.70/M	EEU-ED2E101S
	150	2260.0	0.15	1800@100kHz	10000	18	31.5	7.5	0.8	P13531-ND	4.02	28.35	222.08	1417.50	1323.00/M	1228.50/M	EEU-ED2E151
	220	3310.0	0.15	2100@100kHz	10000	18	40	7.5	0.8	P13533-ND	5.44	38.40	300.80	1920.00	1792.00/M	1664.00/M	EEU-ED2E221

(Continued)

Panasonic® ED Series *(Cont.)*

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	tan δ (120Hz/20°C) Maximum	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm) øD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
350	10	220.0	0.20	350@100kHz	8000	10	20	5.0	0.6	P13549-ND	.68	4.80	37.60	240.00	224.00/M	208.00/M	EEU-ED2V100
	22	472.0	0.20	480@100kHz	10000	12.5	20	5.0	0.6	P13551-ND	1.04	7.32	57.34	366.00	341.60/M	317.20/M	EEU-ED2V220
	33	703.0	0.20	640@100kHz	10000	16	20	7.5	0.8	P13552-ND	1.67	11.79	92.36	589.50	550.20/M	510.90/M	EEU-ED2V330S
	47	997.0	0.20	800@100kHz	10000	16	25	7.5	0.8	P13553-ND	1.85	13.08	102.46	654.00	610.40/M	566.80/M	EEU-ED2V470
	47	997.0	0.20	800@100kHz	10000	18	20	7.5	0.8	P13554-ND	2.22	15.69	122.91	784.50	732.20/M	679.90/M	EEU-ED2V470S
	68	1438.0	0.20	1100@100kHz	10000	16	31.5	7.5	0.8	P13555-ND	2.47	17.46	136.77	873.00	814.80/M	756.60/M	EEU-ED2V680
	68	1438.0	0.20	1000@100kHz	10000	18	25	7.5	0.8	P13556-ND	2.60	18.33	143.59	916.50	855.40/M	794.30/M	EEU-ED2V680S
	82	1732.0	0.20	1100@100kHz	10000	18	25	7.5	0.8	P13557-ND	2.60	18.33	143.59	916.50	855.40/M	794.30/M	EEU-ED2V820S
	100	2110.0	0.20	1200@100kHz	10000	18	31.5	7.5	0.8	P13550-ND	4.02	28.35	222.08	1417.50	1323.00/M	1228.50/M	EEU-ED2V101
400	10	250.0	0.24	300@100kHz	8000	10	20	5.0	0.6	P13540-ND	.68	4.80	37.60	240.00	224.00/M	208.00/M	EEU-ED2G100
	15	370.0	0.24	410@100kHz	10000	12.5	20	5.0	0.6	P13541-ND	1.04	7.32	57.34	366.00	341.60/M	317.20/M	EEU-ED2G150
	22	538.0	0.24	500@100kHz	10000	12.5	25	5.0	0.6	P13542-ND	1.30	9.15	71.68	457.50	427.00/M	396.50/M	EEU-ED2G220
	22	538.0	0.24	600@100kHz	10000	16	20	7.5	0.8	P13543-ND	1.67	11.79	92.36	589.50	550.20/M	510.90/M	EEU-ED2G220S
	33	802.0	0.24	730@100kHz	10000	16	20	7.5	0.8	P13544-ND	1.67	11.79	92.36	589.50	550.20/M	510.90/M	EEU-ED2G330S
	47	1138.0	0.24	840@100kHz	10000	16	25	7.5	0.8	P13545-ND	1.85	13.08	102.46	654.00	610.40/M	566.80/M	EEU-ED2G470
	47	1138.0	0.24	840@100kHz	10000	18	20	7.5	0.8	P13546-ND	2.22	15.69	122.91	784.50	732.20/M	679.90/M	EEU-ED2G470S
	68	1642.0	0.24	1200@100kHz	10000	18	31.5	7.5	0.8	P13547-ND	4.02	28.35	222.08	1417.50	1323.00/M	1228.50/M	EEU-ED2G680
	82	1978.0	0.24	1500@100kHz	10000	18	40	7.5	0.8	P13548-ND	5.44	38.40	300.80	1920.00	1792.00/M	1664.00/M	EEU-ED2G820
450	10	280.0	0.24	350@100kHz	10000	12.5	20	5.0	0.6	P13558-ND	1.04	7.32	57.34	366.00	341.60/M	317.20/M	EEU-ED2W100
	15	415.0	0.24	560@100kHz	10000	12.5	25	5.0	0.6	P13559-ND	1.17	8.28	64.86	414.00	386.40/M	358.80/M	EEU-ED2W150
	22	604.0	0.24	680@100kHz	10000	16	20	7.5	0.8	P13560-ND	1.67	11.79	92.36	589.50	550.20/M	510.90/M	EEU-ED2W220S
	33	901.0	0.24	850@100kHz	10000	16	31.5	7.5	0.8	P13561-ND	2.47	17.46	136.77	873.00	814.80/M	756.60/M	EEU-ED2W330
	33	901.0	0.24	850@100kHz	10000	18	25	7.5	0.8	P13562-ND	2.60	18.33	143.59	916.50	855.40/M	794.30/M	EEU-ED2W330S
	47	1279.0	0.24	1000@100kHz	10000	18	31.5	7.5	0.8	P13563-ND	4.02	28.35	222.08	1417.50	1323.00/M	1228.50/M	EEU-ED2W470
	68	1846.0	0.24	1300@100kHz	10000	18	40	7.5	0.8	P13564-ND	5.44	38.40	300.80	1920.00	1792.00/M	1664.00/M	EEU-ED2W680

EE Series

FEATURES:

- High Ripple (High Frequency) • Life Time: 8,000 ~ 10,000 hours @ 105°C

MAIN APPLICATION:

- Electronic Ballast, Power Supply Input Circuit

SPECIFICATIONS:

• **Operating Temperature Range:** -25°C ~ 105°C • **Rated Working Voltage Range:** 160 ~ 450 VDC • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.06 CV + 10µA, after 2 minutes application of rated working voltage at 20°C whichever is greater • **Endurance:** After following life test with DC voltage and 105±2°C ripple current value applied (the sum of DC and ripple peak voltage shall not exceed the rated working voltage), the capacitors shall meet the limits. *Capacitance change:* ±20% of initial measured value *tan δ:* ≤ 200% of initial specified value. *DC Leakage Current:* ≤ initial specified value. • **Shelf Life:** After storage for 1,000 hours at 105±2°C with no voltage applied and then being stabilized at ±20°C, capacitors shall meet the limits specified in "Endurance" (with voltage treatment).

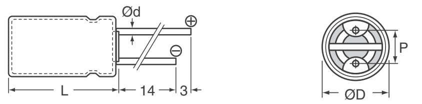

Ripple Current Frequency Multiplier

Capacitance (µF)	Frequency (Hz) 60	120	300	1k	10k	30k
10 ~ 82	0.25	0.35	0.50	0.65	0.90	1.00
100 ~ 330	0.30	0.40	0.55	0.70	0.90	1.00

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	tan δ (120Hz/20°C) Maximum	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm) øD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
160	22	221.1	0.15	700@100kHz	8000	10	20	5.0	0.6	P13617-ND	.51	4.39	34.36	219.30	204.68/M	190.06/M	EEU-EE2C220
	33	326.8	0.15	810@100kHz	8000	10	20	5.0	0.6	P13618-ND	.51	4.39	34.36	219.30	204.68/M	190.06/M	EEU-EE2C330
	47	461.2	0.15	1065@100kHz	8000	10	20	5.0	0.6	P13619-ND	.51	4.39	34.36	219.30	204.68/M	190.06/M	EEU-EE2C470
	68	662.8	0.15	1350@100kHz	10000	12.5	20	5.0	0.6	P13620-ND	.79	6.75	52.90	337.65	315.14/M	292.63/M	EEU-EE2C680
	82	797.2	0.15	1480@100kHz	10000	12.5	25	5.0	0.6	P13621-ND	1.00	8.55	67.00	427.65	399.14/M	370.63/M	EEU-EE2C820
	100	970.0	0.15	1660@100kHz	10000	12.5	25	5.0	0.6	P13622-ND	1.00	8.55	67.00	427.65	399.14/M	370.63/M	EEU-EE2C101
	100	970.0	0.15	1700@100kHz	10000	16	20	7.5	0.8	P13623-ND	1.28	10.97	85.89	548.25	511.70/M	475.15/M	EEU-EE2C101S
	150	1450.0	0.15	1890@100kHz	10000	16	25	7.5	0.8	P13624-ND	1.48	12.72	99.64	636.00	593.60/M	551.20/M	EEU-EE2C151
	150	1450.0	0.15	1820@100kHz	10000	18	20	7.5	0.8	P13625-ND	1.59	13.60	106.50	679.80	634.48/M	589.16/M	EEU-EE2C151S
	220	2122.0	0.15	2280@100kHz	10000	16	31.5	7.5	0.8	P13626-ND	1.79	15.35	120.25	767.55	716.38/M	665.21/M	EEU-EE2C221
	220	2122.0	0.15	1950@100kHz	10000	18	25	7.5	0.8	P13627-ND	1.87	16.01	125.40	800.40	747.04/M	693.68/M	EEU-EE2C221S
	330	3178.0	0.15	2600@100kHz	10000	18	31.5	7.5	0.8	P13628-ND	3.12	26.75	209.57	1337.70	1248.52/M	1159.34/M	EEU-EE2C331
200	22	274.0	0.15	850@100kHz	8000	10	20	5.0	0.6	P13629-ND	.51	4.39	34.36	219.30	204.68/M	190.06/M	EEU-EE2D220
	33	406.0	0.15	920@100kHz	8000	10	20	5.0	0.6	P13630-ND	.51	4.39	34.36	219.30	204.68/M	190.06/M	EEU-EE2D330
	47	574.0	0.15	1100@100kHz	10000	12.5	20	5.0	0.6	P13631-ND	.79	6.75	52.90	337.65	315.14/M	292.63/M	EEU-EE2D470
	68	826.0	0.15	1330@100kHz	10000	12.5	25	5.0	0.6	P13632-ND	1.00	8.55	67.00	427.65	399.14/M	370.63/M	EEU-EE2D680
	68	826.0	0.15	1330@100kHz	10000	16	20	7.5	0.8	P13633-ND	1.28	10.97	85.89	548.25	511.70/M	475.15/M	EEU-EE2D680S
	82	994.0	0.15	1460@100kHz	10000	16	20	7.5	0.8	P13634-ND	1.28	10.97	85.89	548.25	511.70/M	475.15/M	EEU-EE2D820S
	100	1210.0	0.15	1730@100kHz	10000	16	25	7.5	0.8	P13635-ND	1.48	12.72	99.64	636.00	593.60/M	551.20/M	EEU-EE2D101
	100	1210.0	0.15	1665@100kHz	10000	18	20	7.5	0.8	P13636-ND	1.59	13.60	106.50	679.80	634.48/M	589.16/M	EEU-EE2D101S
	150	1810.0	0.15	1860@100kHz	10000	16	25	7.5	0.8	P13637-ND	1.48	12.72	99.64	636.00	593.60/M	551.20/M	EEU-EE2D151
	220	2650.0	0.15	2600@100kHz	10000	18	31.5	7.5	0.8	P13638-ND	3.12	26.75	209.57	1337.70	1248.52/M	1159.34/M	EEU-EE2D221
	330	3970.0	0.15	3120@100kHz	10000	18	40	7.5	0.8	P13639-ND	4.50	38.60	302.35	1929.90	1801.24/M	1672.58/M	EEU-EE2D331
250	22	340.0	0.15	785@100kHz	8000	10	20	5.0	0.6	P13640-ND	.51	4.39	34.36	219.30	204.68/M	190.06/M	EEU-EE2E220
	33	505.0	0.15	995@100kHz	10000	12.5	20	5.0	0.6	P13641-ND	.79	6.75	52.90	337.65	315.14/M	292.63/M	EEU-EE2E330
	47	715.0	0.15	1290@100kHz	10000	12.5	25	5.0	0.6	P13642-ND	1.00	8.55	67.00	427.65	399.14/M	370.63/M	EEU-EE2E470
	47	715.0	0.15	1400@100kHz	10000	16	20	7.5	0.8	P13643-ND	1.28	10.97	85.89	548.25	511.70/M	475.15/M	EEU-EE2E470S
	68	1030.0	0.15	1400@100kHz	10000	16	20	7.5	0.8	P13644-ND	1.28	10.97	85.89	548.25	511.70/M	475.15/M	EEU-EE2E680S
	82	1240.0	0.15	1680@100kHz	10000	16	25	7.5	0.8	P13645-ND	1.48	12.72	99.64	636.00	593.60/M	551.20/M	EEU-EE2E820
	82	1240.0	0.15	1680@100kHz	10000	18	20	7.5	0.8	P13646-ND	1.59	13.60	106.50	679.80	634.48/M	589.16/M	EEU-EE2E820S
	100	1510.0	0.15	2100@100kHz	10000	16	31.5	7.5	0.8	P13647-ND	1.79	15.35	120.25	767.55	716.38/M	665.21/M	EEU-EE2E101
	100	1510.0	0.15	2100@100kHz	10000	18	25	7.5	0.8	P13648-ND	1.89	16.23	127.11	811.35	757.26/M	703.17/M	EEU-EE2E101S
	150	2260.0	0.15	2520@100kHz	10000	18	31.5	7.5	0.8	P13649-ND	3.12	26.75	209.57	1337.70	1248.52/M	1159.34/M	EEU-EE2E151
	220	3310.0	0.15	2940@100kHz	10000	18	40	7.5	0.8	P13650-ND	4.50	38.60	302.35	1929.90	1801.24/M	1672.58/M	EEU-EE2E221
350	15	325.0	0.20	480@100kHz	8000	10	20	5.0	0.6	P13651-ND	.59	5.04	39.50	252.15	235.34/M	218.53/M	EEU-EE2V150
	22	472.0	0.20	660@100kHz	10000	12.5	20	5.0	0.6	P13652-ND	.90	7.68	60.14	383.85	358.26/M	332.67/M	EEU-EE2V220
	33	703.0	0.20	790@100kHz	10000	12.5	25	5.0	0.6	P13653-ND	1.13	9.65	75.58	482.40	450.24/M	418.08/M	EEU-EE2V330
	33	703.0	0.20	900@100kHz	10000	16	20	7.5	0.8	P13654-ND	1.43	12.28	96.21	614.10	573.16/M	532.22/M	EEU-EE2V330S
	47	997.0	0.20	1070@100kHz	10000	16	25	7.5	0.8	P13655-ND	1.64	14.03	109.93	701.70	654.92/M	608.14/M	EEU-EE2V470
	47	997.0	0.20	1070@100kHz	10000	18	20	7.5	0.8	P13656-ND	1.74	14.91	116.82	745.65	695.94/M	646.23/M	EEU-EE2V470S
	68	1438.0	0.20	1530@100kHz	10000	16	31.5	7.5	0.8	P13657-ND	2.15	18.42	144.29	921.00	859.60/M	798.20/M	EEU-EE2V680
	68	1438.0	0.20	1330@100kHz	10000	18	25	7.5	0.8	P13658-ND	2.25	19.30	151.18	964.95	900.62/M	836.29/M	EEU-EE2V680S
	82	1732.0	0.20	1530@100kHz	10000	18	25	7.5	0.8	P13659-ND	2.25	19.30	151.18	964.95	900.62/M	836.29/M	EEU-EE2V820S
	100	2110.0	0.20	1600@100kHz	10000	18	31.5	7.5	0.8	P13660-ND	3.43	29.39	230.18	1469.25	1371.30/M	1273.35/M	EEU-EE2V101

(Continued)

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	tan δ (120Hz/20°C) Maximum	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm) øD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
400	10	250.0	0.24	430@100kHz	8000	10	20	5.0	0.6	P13661-ND	.59	5.04	39.50	252.15	235.34/M	218.53/M	EEU-EE2G100
	15	370.0	0.24	590@100kHz	10000	12.5	20	5.0	0.6	P13662-ND	.90	7.68	60.14	383.85	358.26/M	332.67/M	EEU-EE2G150
	22	538.0	0.24	760@100kHz	10000	12.5	25	5.0	0.6	P13663-ND	1.13	9.65	75.58	482.40	450.24/M	418.08/M	EEU-EE2G220
	22	538.0	0.24	860@100kHz	10000	16	20	7.5	0.8	P13664-ND	1.43	12.28	96.21	614.10	573.16/M	532.22/M	EEU-EE2G220S
	33	802.0	0.24	1020@100kHz	10000	16	20	7.5	0.8	P13665-ND	1.43	12.28	96.21	614.10	573.16/M	532.22/M	EEU-EE2G330S
	47	1138.0	0.24	1180@100kHz	10000	16	25	7.5	0.8	P13666-ND	1.64	14.03	109.93	701.70	654.92/M	608.14/M	EEU-EE2G470
	47	1138.0	0.24	1180@100kHz	10000	18	20	7.5	0.8	P13667-ND	1.79	15.35	120.25	767.55	716.38/M	665.21/M	EEU-EE2G470S
	68	1642.0	0.24	1470@100kHz	10000	18	25	7.5	0.8	P13668-ND	2.35	20.18	158.04	1008.75	941.50/M	874.25/M	EEU-EE2G680
	82	1978.0	0.24	1645@100kHz	10000	18	31.5	7.5	0.8	P13669-ND	3.43	29.39	230.18	1469.25	1371.30/M	1273.35/M	EEU-EE2G820
	100	2410.0	0.24	2060@100kHz	10000	18	40	7.5	0.8	P13670-ND	4.50	38.60	302.35	1929.90	1801.24/M	1672.58/M	EEU-EE2G101
450	10	280.0	0.24	330@100kHz	8000	10	20	5.0	0.6	P13671-ND	.59	5.04	39.50	252.15	235.34/M	218.53/M	EEU-EE2W100U
	10	280.0	0.24	490@100kHz	10000	12.5	20	5.0	0.6	P13672-ND	.90	7.68	60.14	383.85	358.26/M	332.67/M	EEU-EE2W100
	15	415.0	0.24	780@100kHz	10000	12.5	25	5.0	0.6	P13673-ND	1.13	9.65	75.58	482.40	450.24/M	418.08/M	EEU-EE2W150
	22	604.0	0.24	945@100kHz	10000	16	20	7.5	0.8	P13674-ND	1.43	12.28	96.21	614.10	573.16/M	532.22/M	EEU-EE2W220S
	33	901.0	0.24	1000@100kHz	10000	16	25	7.5	0.8	P13675-ND	1.74	14.91	116.82	745.65	695.94/M	646.23/M	EEU-EE2W330
	33	901.0	0.24	1000@100kHz	10000	18	20	7.5	0.8	P13676-ND	1.79	15.35	120.25	767.55	716.38/M	665.21/M	EEU-EE2W330S
	47	1279.0	0.24	1200@100kHz	10000	16	31.5	7.5	0.8	P13677-ND	2.20	18.86	147.74	943.05	880.18/M	817.31/M	EEU-EE2W470
	47	1279.0	0.24	1200@100kHz	10000	18	25	7.5	0.8	P13678-ND	2.35	20.18	158.04	1008.75	941.50/M	874.25/M	EEU-EE2W470S
	56	1522.0	0.24	1380@100kHz	10000	18	31.5	7.5	0.8	P13679-ND	3.43	29.39	230.18	1469.25	1371.30/M	1273.35/M	EEU-EE2W560
	68	1846.0	0.24	1800@100kHz	10000	18	40	7.5	0.8	P13680-ND	4.50	38.60	302.35	1929.90	1801.24/M	1672.58/M	EEU-EE2W680

KS Series

FEATURES:

- Low profile 5mm height for Ø3 ~ Ø8 mm

SPECIFICATIONS:

• **Operating Temperature Range:** -40°C ~ 85°C • **Rated Working Voltage Range:** 4 ~ 50VDC • **Nominal Capacitance Range:** 0.1 ~ 330µF • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3 (µA), whichever is greater measured after 2 minutes application of rated working voltage at 20°C • **Endurance:** Test Conditions — Duration: 1000 hours • **Ambient Temperature:** 85°C • **Applied Voltage:** Rated DC working voltage • **Post Test Requirements at 20°C** — **Leakage Current:** ≤ Initial specified value • **Capacitance Change:** ±20% of initial measured value (4V: ±30%) • **tan δ:** ≤ 200% of initial specified value • **Shelf Life:** Test Conditions — Duration: 1000 hours • **Ambient Temperature:** 85°C • **Applied voltage:** (None) • **Post Test Requirements at 20°C — Leakage Current:** ≤ Initial specified value • **Capacitance Change:** ±20% of initial measured value (4V: ±30%) • **tan δ:** ≤ 200% of initial specified value **Panasonic KS Cross Reference:** Nippon Chemi-Con: SRE, Nichicon: MA, Elna: RC3, Rubycon: MS5, Marcon: LSM **Recommended Applications:** AV (TV, Audio, Video), Office, Home Appliance

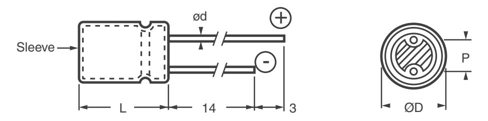

Body Diameter D	3	4	5	6.3	8
Lead Diameter d	0.4	0.45	0.45	0.45	0.45
Lead Space P	1.0	1.5	2.0	2.5	2.5

Characteristics at Low Temperature Impedance ratio maximum at 120Hz

Working Voltage (V)	4	6.3	10	16	25	35	50
-25°C/25°C	7	4	3	2	2	2	2
-40°C/20°C	15	8	6	4	4	3	3

Tan δ: (120Hz, 20°C)

Working Voltage (V)	4	6.3	10	16	25	35	50
tan δ Maximum	0.35	0.24	0.20	0.16	0.14	0.12	0.10

WV (VDC)	Cap. (µF)	D.C.L. (+20°C/2 min.)	tan δ (120Hz/+20°C)	Ripple Current	Dimensions (mm) ØD	L	P	Digi-Key Part No.	Pricing 10	100	1,000	Panasonic Part No.
4	22	3.0	0.35	19	3	5	1.0	P950-ND	1.38	10.81	59.00	ECE-A0GKK220
	33	3.0	0.35	26	4	5	1.5	P951-ND	.77	6.02	33.00	ECE-A0GKS330
	47	3.0	0.35	34	4	5	1.5	P952-ND	.77	6.02	33.00	ECE-A0GKS470
	100	4.0	0.35	61	5	5	2.0	P953-ND	.84	6.60	36.00	ECE-A0GKS101
	220	8.8	0.35	82	6.3	5	2.5	P954-ND	1.02	8.00	44.00	ECE-A0GKS221
6.3	22	3.0	0.24	29	4	5	1.5	P955-ND	.77	6.02	33.00	ECE-A0JKS220
	33	3.0	0.24	38	5	5	2.0	P956-ND	.84	6.60	36.00	ECE-A0JKS330
	47	3.0	0.24	46	5	5	2.0	P957-ND	.84	6.60	36.00	ECE-A0JKS470
	100	6.3	0.24	71	6.3	5	2.5	P958-ND	1.02	8.00	44.00	ECE-A0JKS101
	330	20.7	0.24	130	8	5	2.5	P959-ND	1.84	14.44	79.00	ECE-A0JKS331
10	22	3.0	0.20	35	5	5	2.0	P960-ND	.84	6.60	36.00	ECE-A1AKS220
	33	3.3	0.20	43	5	5	2.0	P961-ND	.84	6.60	36.00	ECE-A1AKS330
	47	4.7	0.20	65	6.3	5	2.5	P962-ND	1.02	8.00	44.00	ECE-A1AKS470
	100	10.0	0.20	80	6.3	5	2.5	P963-ND	1.02	8.00	44.00	ECE-A1AKS101
	220	22.0	0.20	120	8	5	2.5	P964-ND	1.84	14.44	79.00	ECE-A1AKS221
16	10	3.0	0.16	20	3	5	1.0	P965-ND	1.38	10.81	59.00	ECE-A1CKK100
	10	3.0	0.16	28	4	5	1.5	P966-ND	.77	6.02	33.00	ECE-A1CKS100
	22	3.5	0.16	39	5	5	2.0	P967-ND	.84	6.60	36.00	ECE-A1CKS220
	33	5.2	0.16	60	6.3	5	2.5	P968-ND	1.02	8.00	44.00	ECE-A1CKS330
	47	7.5	0.16	70	6.3	5	2.5	P969-ND	1.02	8.00	44.00	ECE-A1CKS470
	100	16.0	0.16	91	8	5	2.5	P970-ND	1.84	14.44	79.00	ECE-A1CKS101
25	2.2	3.0	0.14	8	3	5	1.0	P971-ND	1.38	10.81	59.00	ECE-A1EKK2R2
	3.3	3.0	0.14	10	3	5	1.0	P972-ND	1.38	10.81	59.00	ECE-A1EKK3R3
	4.7	3.0	0.14	12	3	5	1.0	P973-ND	1.38	10.81	59.00	ECE-A1EKK4R7
	4.7	3.0	0.14	22	4	5	1.5	P974-ND	.77	6.02	33.00	ECE-A1EKS4R7
	10	3.0	0.14	28	5	5	2.0	P975-ND	.84	6.60	36.00	ECE-A1EKS100
	22	5.5	0.14	55	6.3	5	2.5	P976-ND	1.02	8.00	44.00	ECE-A1EKS220
	33	8.2	0.14	65	6.3	5	2.5	P977-ND	1.02	8.00	44.00	ECE-A1EKS330
35	3.3	3.0	0.12	16	4	5	1.5	P978-ND	.77	6.02	33.00	ECE-A1VKS3R3
	4.7	3.0	0.12	22	4	5	1.5	P979-ND	.77	6.02	33.00	ECE-A1VKS4R7
	10	3.5	0.12	30	5	5	2.0	P980-ND	.84	6.60	36.00	ECE-A1VKS100
	22	7.7	0.12	60	6.3	5	2.5	P981-ND	1.02	8.00	44.00	ECE-A1VKS220
	33	11.6	0.12	65	8	5	2.5	P982-ND	1.84	14.44	79.00	ECE-A1VKS330
	47	16.4	0.12	85	8	5	2.5	P983-ND	1.84	14.44	79.00	ECE-A1VKS470
50	0.1	3.0	0.10	1	4	5	1.5	P984-ND	.77	6.02	33.00	ECE-A1HKS0R1
	0.1	3.0	0.10	1	3	5	1.0	P985-ND	1.38	10.81	59.00	ECE-A1HKK0R1
	0.22	3.0	0.10	2	4	5	1.5	P986-ND	.77	6.02	33.00	ECE-A1HKSR22
	0.22	3.0	0.10	2	3	5	1.0	P987-ND	1.38	10.81	59.00	ECE-A1HKKR22
	0.33	3.0	0.10	3	4	5	1.5	P988-ND	.77	6.02	33.00	ECE-A1HKSR33
	0.33	3.0	0.10	3	3	5	1.0	P989-ND	1.38	10.81	59.00	ECE-A1HKKR33
	0.47	3.0	0.10	5	4	5	1.5	P990-ND	.77	6.02	33.00	ECE-A1HKSR47
	0.47	3.0	0.10	5	3	5	1.0	P991-ND	1.38	10.81	59.00	ECE-A1HKKR47
	1.0	3.0	0.10	8	3	5	1.0	P992-ND	1.38	10.81	59.00	ECE-A1HKK010
	1.0	3.0	0.10	10	4	5	1.5	P993-ND	.77	6.02	33.00	ECE-A1HKS010
	2.2	3.0	0.10	16	4	5	1.5	P994-ND	.77	6.02	33.00	ECE-A1HKS2R2
	3.3	3.0	0.10	16	4	5	1.5	P995-ND	.77	6.02	33.00	ECE-A1HKS3R3
	4.7	3.0	0.10	23	5	5	2.0	P996-ND	.84	6.60	36.00	ECE-A1HKS4R7
	10	5.0	0.10	35	6.3	5	2.5	P997-ND	1.02	8.00	44.00	ECE-A1HKS100
	22	11.0	0.10	60	8	5	2.5	P998-ND	1.84	14.44	79.00	ECE-A1HKS220

KA-Series Miniature Aluminum Electrolytic Capacitors

Rating WV		Dimensions (mm)			Digi-Key	Pricing						Panasonic
DC	µF	D	L	P	Part No.	1	10	100	500	1,000	5,000	Part No.
6.3	22	4.0	7.0	1.5	P800-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A0JKA220
	33	4.0	7.0	1.5	P801-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A0JKA330
	47	4.0	7.0	1.5	P802-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A0JKA470
	100	5.0	7.0	2.0	P803-ND†	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A0JKA101
	220	6.3	7.0	2.5	P829-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A0JKA221
	330	8.0	7.0	3.5	P830-ND	.23	1.68	12.03	43.29	67.00	63.00/M	ECE-A0JKA331
10	22	4.0	7.0	1.5	P804-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1AKA220
	33	4.0	7.0	1.5	P805-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1AKA330
	47	5.0	7.0	2.0	P806-ND	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1AKA470
	100	6.3	7.0	2.5	P831-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1AKA101
	220	8.0	7.0	3.5	P832-ND	.23	1.68	12.03	43.29	67.00	63.00/M	ECE-A1AKA221
16	10	4.0	7.0	1.5	P807-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1CKA100
	22	4.0	7.0	1.5	P808-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1CKA220
	33	5.0	7.0	2.0	P809-ND†	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1CKA330
	47	5.0	7.0	2.0	P810-ND†	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1CKA470
	100	6.3	7.0	2.5	P833-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1CKA101
25	4.7	4.0	7.0	1.5	P812-ND†	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1EKA4R7
	10	4.0	7.0	1.5	P813-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1EKA100
	22	5.0	7.0	2.0	P814-ND	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1EKA220
	33	6.3	7.0	2.5	P815-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1EKA330
	47	6.3	7.0	2.5	P834-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1EKA470
35	4.7	4.0	7.0	1.5	P817-ND†	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1VKA4R7
	10	5.0	7.0	2.0	P818-ND†	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1VKA100
	22	6.3	7.0	2.5	P819-ND†	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1VKA220
	33	6.3	7.0	2.5	P835-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1VKA330
	47	8.0	7.0	3.5	P836-ND	.23	1.68	12.03	43.29	67.00	63.00/M	ECE-A1VKA470
50	0.1	4.0	7.0	1.5	P820-ND†	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA0R1
	0.22	4.0	7.0	1.5	P821-ND†	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKAR22
	0.33	4.0	7.0	1.5	P822-ND†	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKAR33
	0.47	4.0	7.0	1.5	P823-ND†	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKAR47
	1.0	4.0	7.0	1.5	P824-ND†	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA010
	2.2	4.0	7.0	1.5	P825-ND†	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA2R2
	3.3	4.0	7.0	1.5	P826-ND†	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA3R3
	4.7	4.0	7.0	1.5	P827-ND†	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA4R7
	10	5.0	7.0	2.0	P828-ND†	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1HKA100
	22	6.3	7.0	2.5	P837-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1HKA220
	33	8.0	7.0	3.5	P838-ND	.23	1.68	12.03	43.29	67.00	63.00/M	ECE-A1HKA330

† P835-KIT-ND ***Digi-Key® KA-Series Capacitors Kit*** 10 each of parts indicated. (160 total pieces) Notebook style storage case.......................... **$29.95**

The KA-Series is a tantalum substitute for many applications.

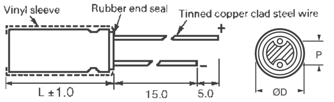

- **Operating Temperature Range:** –40°C ~ 85°C
- **Rated DC Voltage Range:** 6.3 ~ 63VDC
- **Rated Capacitance Range:** 1.0 ~ 100µF
- **Capacitance Tolerance:** ±20%
- **tan δ:** Maximum at 120Hz

W.V.	6.3	10	16	25	35	50
tan	0.24	0.2	0.16	0.14	0.12	0.10

- **DC Leakage Current, Maximum:** After 5 minutes application of the DC working voltage, I=0.01 C V or 3µA, whichever is greater.
- **Load Life:** 1,000 hours application of the rated DC working voltage at 85°C, the capacitor shall meet the following limits:

Capacitance Change	Within ±20% of the initial measured value
tan δ	Less than 200% of the initial specified value
DC Leakage Current	Less than the initial specified value

- **Stability at Low and High Temperature:** Impedance ratio at 120Hz –25/20°C, –40/20°C.

W.V.	6.3	10	16	25	35	50
–25/20°C	4	3	2	2	2	2
–40/20°C	8	6	4	4	3	3

- **Shelf Life:** After 1,000 hours storage without load at 85°C, the capacitor shall meet the above "Load life."
- **Others shall be in accordance with JIS-C-5141 (1976).**

PANASONIC K CROSS REFERENCES:

Elna: RC2, **IC:** RSS, **Marcon:** SSM, **Nichicon:** SR/SA, **Rubycon:** MS7, **UCC:** SRG/SRA

KG-Series Miniature Aluminum Electrolytic Capacitors 105°C

WV DC	Cap. µF	Size Code	Digi-Key Part No.	Pricing 1	10	100	500	1,000	5,000	Panasonic Part No.
6.3	22	A	P900-ND	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A0JKG220
	33	B	P901-ND	.19	1.02	7.21	24.89	39.00	34.00/M	ECE-A0JKG330
	47	B	P902-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECE-A0JKG470
	68	C	P903-ND	.20	1.25	8.83	30.50	48.00	42.00/M	ECE-A0JKG680
	100	C	P904-ND‡	.24	1.25	8.83	30.50	48.00	42.00/M	ECE-A0JKG101
	220	D	P941-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A0JKG221
10	22	A	P905-ND	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1AKG220
	33	B	P906-ND	.21	1.02	7.21	24.89	39.00	34.00/M	ECE-A1AKG330
	47	C	P907-ND	.21	1.25	8.83	30.50	48.00	42.00/M	ECE-A1AKG470
	68	C	P908-ND	.24	1.25	8.83	30.50	48.00	42.00/M	ECE-A1AKG680
	100	C	P942-ND	.24	1.12	8.03	28.89	45.00	42.00/M	ECE-A1AKG101
16	6.8	A	P909-ND	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1CKG6R8
	10	A	P910-ND	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1CKG100
	15	A	P911-ND	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1CKG150
	22	B	P912-ND	.21	1.02	7.21	24.89	39.00	34.00/M	ECE-A1CKG220
	33	C	P913-ND‡	.22	1.25	8.83	30.50	48.00	42.00/M	ECE-A1CKG330
	47	C	P914-ND‡	.23	1.25	8.83	30.50	48.00	42.00/M	ECE-A1CKG470
	68	D	P943-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1CKG680
	100	D	P944-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1CKG101
25	6.8	A	P915-ND‡	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1EKG6R8
	10	A	P916-ND‡	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1EKG100
	15	B	P917-ND	.21	1.02	7.21	24.89	39.00	34.00/M	ECE-A1EKG150
	22	B	P918-ND‡	.22	1.02	7.21	24.89	39.00	34.00/M	ECE-A1EKG220
	33	C	P919-ND	.25	1.25	8.83	30.50	48.00	42.00/M	ECE-A1EKG330
	47	D	P945-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1EKG470
	68	D	P946-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1EKG680
35	4.7	A	P920-ND‡	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1VKG4R7
	6.8	A	P921-ND	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1VKG6R8
	10	B	P922-ND‡	.21	1.02	7.21	24.89	39.00	34.00/M	ECE-A1VKG100
	15	C	P923-ND	.25	1.25	8.83	30.50	48.00	42.00/M	ECE-A1VKG150
	22	C	P924-ND‡	.25	1.25	8.83	30.50	48.00	42.00/M	ECE-A1VKG220
	33	D	P947-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1VKG330
	47	D	P948-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1VKG470
50	0.1	A	P925-ND‡	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKG0R1
	0.15	A	P926-ND	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKGR15
	0.22	A	P927-ND‡	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKGR22
	0.33	A	P928-ND‡	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKGR33
	0.47	A	P929-ND‡	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKGR47
	0.68	A	P930-ND	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKGR68
	1	A	P931-ND‡	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKG010
	1.5	A	P932-ND	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKG1R5
	2.2	A	P933-ND‡	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKG2R2
	3.3	A	P934-ND‡	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKG3R3
	4.7	A	P935-ND‡	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKG4R7
	6.8	B	P936-ND	.21	1.02	7.21	24.89	39.00	34.00/M	ECE-A1HKG6R8
	10	C	P937-ND‡	.25	1.25	8.83	30.50	48.00	42.00/M	ECE-A1HKG100
	15	C	P938-ND	.26	1.25	8.83	30.50	48.00	42.00/M	ECE-A1HKG150
	22	D	P939-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1HKG220
	33	D	P940-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1HKG330

‡ P900-KIT-ND ***Digi-Key® KG-Series Capacitors Kit*** 10 each of parts indicated. (180 pieces total) Notebook style storage case **$34.95**

The KG-Series is a tantalum substitute for many applications.

Features: • Height is 7mm • Anti-solvent in Freon

Operating Temperature Range: –55°C ~ 105°C

Capacitance Tolerance: ±20% at 120Hz, 20°C

DC Leakage Current: I≤0.01CV or 3[µA] after 2 minutes (whichever is greater)

tan δ (120Hz/120°C):

W.V.	6.3	10	16	25	35	50
tan δ (Maximum)	0.22	0.19	0.16	0.14	0.12	0.10

Low Temperature Impedance Stability at 120Hz:

W.V.	6.3	10	16	25	35	50
Z(-25°C)/Z(20°C)	3	2	2	2	2	2
Z(-40°C)/Z(20°C)	6	5	3	3	3	3
Z(-55°C)/Z(20°C)	8	6	4	4	4	4

Load Life:
After 1,000 hours application of DC rated working voltage at 105°C, the capacitor shall meet the following limits.

Capacitance change: < ±20% of the initial measured value.

tan δ:
< 200% of the initial specified value.

DC leakage current: < the initial specified value.

Anti-solvent:
Can withstand circuit-board cleaning within 5 minutes in Freon TE, TES, or TP-35 at 40°C by dipping, steaming, or ultrasonic.

Size Code	Dimensions: (mm) Body Diameter D	Lead Space P
A	4	1.5
B	5	2
C	6.3	2.5
D	8	3.5

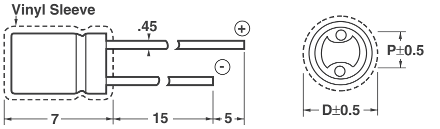

CDE CORNELL DUBILIER

MLS Series Flatpack, Ultra-Long Life, Aluminum Capacitors

The Type MLS extends the super performance of the MLP from a maximum operating temperature of 85°C to 125°C. While the MLP is inherently capable of operation at 125°C, its flat aluminum case can't withstand the higher temperature without inflating from internal pressure. The MLS incorporates a rugged, stainless steel case which assures flatness to beyond 125°C. The MLS is perfect for hi-rel military systems and applications operating above 85°C

Features: • Near hermetic welded seal • Stainless steel case • 100 years expected operating life • Two inch case size • Mounting Style: Two leads/no tabs

Specifications: • Operating Temperature: -55°C ~ 125°C up to 250VDC • Load Life: 2,000 hours @ 125°C • Leakage Current: 0.002CV µA @ 25°C and 5 minutes • Terminals: 18AWG copper wire with 60/40 tin-lead electroplate

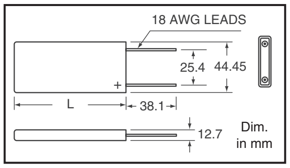

Voltage	Capacitance (µf)	ESR Maximum (mΩ) @ 25°C		Ripple Current (A) @ 85°C		Dim. L (mm)	Digi-Key Part No.	Price Each				Cornell Dubilier Part No.
		120Hz	20kHz	120Hz	20kHz			1	10	100	1,000	
40	4400	97	70	10.3	12.1	38.1	338-1377-ND	209.93	179.94	149.95	95.97	MLS442M040EK0C
40	6600	62	46	12.9	15.0	50.8	338-1378-ND	227.01	194.58	162.15	103.78	MLS662M040EA0C
60	1500	106	77	9.8	11.5	38.1	338-1379-ND	209.93	179.94	149.95	95.97	MLS152M060EK0C
60	2100	72	52	11.9	14.1	50.8	338-1380-ND	227.01	194.58	162.15	103.78	MLS212M060EA0C
75	1100	112	78	9.6	11.5	38.1	338-1381-ND	209.93	179.94	149.95	95.97	MLS112M075EK0C
75	2700	46	33	14.9	17.6	76.2	338-1382-ND	262.61	225.09	187.58	120.05	MLS272M075EB0C
200	330	426	258	4.9	6.2	38.1	338-1383-ND	209.93	179.94	149.95	95.97	MLS331M200EK0C
200	820	172	103	7.7	10.0	76.2	338-1384-ND	262.61	225.09	187.58	120.05	MLS821M200EB0C

MLP Series Flatpack, Ultra-Long Life, Aluminum Capacitors

The MLPs high-energy storage and box shape makes it perfect for voltage holdup or filtering in military SEM-E modules, telecom circuit packs and computer cards. The MLP delivers up to 20 joules of energy storage in a 1/2" height with a 50 year life at 45°C. May readily heatsink it to double the ripple-current capability. Ratings up to 250V can operate at 75% of rated voltage up to 125°C if clamped or potted to prevent expanding beyond 1/2".

Features: • Low profile replacement for snap-ins • Double the ripple capability with a heatsink • Nearly hermetic welded seal assures 50-year life • Withstands more than 80,000 feet altitude **Specifications:** • Operating Temperature: -55°C ~ 85°C up to 250VDC; -40°C ~ 85°C 300VDC and up • Leakage Current: ≤0.002CVµA @ 25°C and 5 minutes • Terminals: 18AWG copper wire with 60/40 tin-lead electroplate

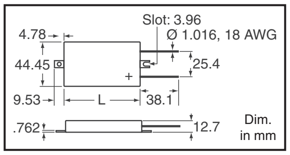

Voltage	Capacitance (µf)	ESR Maximum (mΩ) @25°C		Ripple Current (A) @ 85°C		Dim. L (mm)	Digi-Key Part No.	Price Each				Cornell Dubilier Part No.
		120Hz	20kHz	120Hz	20kHz			1	10	100	1,000	
16	38000	31	27	9.0	9.6	76.2	338-1210-ND	58.79	50.39	41.99	26.88	MLP383M016EB0A
25	20000	34	27	8.6	9.6	76.2	338-1201-ND	58.79	50.39	41.99	26.88	MLP203M025EB0A
35	5600	90	70	3.4	4.4	38.1	338-1217-ND	46.99	40.28	33.57	21.49	MLP562M035EK0A
35	14000	35	27	8.4	9.6	76.2	338-1197-ND	58.79	50.39	41.99	26.88	MLP143M035EB0A
50	4400	97	70	3.7	4.4	38.1	338-1213-ND	46.99	40.28	33.57	21.49	MLP442M050EKOA
50	4400	97	70	3.7	4.4	38.1	338-1214-ND§	45.19	38.73	32.28	20.66	MLP442M050EK1A
50	11000	36	27	8.3	9.6	76.2	338-1192-ND	58.79	50.39	41.99	26.88	MLP113M050EB0A
50	11000	36	27	8.3	9.6	76.2	338-1193-ND§	58.79	50.39	41.99	26.88	MLP113M050EB1A
80	1500	106	77	3.6	4.2	38.1	338-1199-ND	46.99	40.28	33.57	21.49	MLP152M080EK0A
80	3300	44	31	7.5	9.0	76.2	338-1208-ND	58.79	50.39	41.99	26.88	MLP332M080EB0A
100	1100	112	78	3.5	4.2	38.1	338-1191-ND	46.99	40.28	33.57	21.49	MLP112M100EK0A
200	400	388	253	1.9	2.3	38.1	338-1211-ND	46.99	40.28	33.57	21.49	MLP401M200EK0A
200	1000	158	100	3.8	5.0	76.2	338-1189-ND	58.79	50.39	41.99	26.88	MLP102M200EB0A
250	330	426	258	1.8	2.3	38.1	338-1205-ND	46.99	40.28	33.57	21.49	MLP331M250EK0A
250	820	172	103	3.8	4.9	76.2	338-1219-ND	58.79	50.39	41.99	26.88	MLP821M250EB0A
300	220	597	393	1.5	1.9	38.1	338-1202-ND	52.63	45.12	37.60	24.07	MLP221M300EK0A
300	560	240	157	3.2	4.0	76.2	338-1216-ND	65.85	56.45	47.04	30.11	MLP561M300EB0A
400	130	1320	970	1.0	1.2	38.1	338-1194-ND	121.07	103.77	86.48	55.35	MLP131M400EK0A
400	330	530	390	2.1	2.5	76.2	338-1206-ND	65.85	56.45	47.04	30.11	MLP331M400EB0A
420	330	530	390	2.1	2.5	76.2	338-1207-ND	65.85	56.45	47.04	30.11	MLP331M420EB0A
450	110	1456	1190	.96	1.1	38.1	338-1190-ND‡	50.61	43.38	36.15	23.14	MLP111M450EK0C
450	280	585	480	2.0	2.3	76.2	338-1204-ND	65.85	56.45	47.04	30.11	MLP281M450EB0A

§ Polyester Insulation ‡ Two leads/no tabs, mounting style

NESSCAP *TURBO-POWER*

Ultracapacitors and Pseudocapacitors

The NessCap **Ultracapacitor (ESHSR Series)** is an Electric Double Layer Capacitor (EDLC) that uses an activated carbon powder and coating process to prepare electrodes. The NessCap ultracapacitor's high energy density is made possible through the use of a proprietary binder formulation and specially developed electrode-making process.

The NessCap **Pseudocapacitor (PSHLR Series)** differs from the EDLC in that it uses a metal oxide rather than an activated carbon for electrode material. With this advantage, pseudocapacitor cell needs to be only 60% in volume as compared to an EDLC of the same capacitance. Conversely, it also means the pseudocapacitor holds 80% more energy than the equivalent-size EDLC.

Fig.	Working Voltage (DC)	Capacitance (F)	Nominal Internal Series Resistance at 1KHz (mΩ)	Dimensions - (mm)					Digi-Key Part No.	Price Each			NessCap Part No.
				A	B	C	D	E		1	10	100	
						Ultracapacitors (ESHSR Series)							
1	2.7	3	75	20	15	4	8	3.5	589-1000-ND	2.28	1.95	1.47	ESHSR-0003C0-002R7
	2.7	5	60	20	15	4	10	5	589-1001-ND	2.73	2.34	1.76	ESHSR-0005C0-002R7
	2.7	10	35	30	15	4	10	5	589-1002-ND	3.54	3.25	2.66	ESHSR-0010C0-002R7
	2.7	25	20	25	15	4	16	7.5	589-1003-ND	5.70	5.23	4.28	ESHSR-0025C0-002R7
	2.7	50	16	40	15	4	18	7.5	589-1004-ND	8.25	7.57	6.19	ESHSR-0050C0-002R7
2	2.7	100	10	45	6	22	2	10	589-1005-ND	15.30	14.03	11.48	ESHSR-0100C0-002R7
3	2.7	360	3.2	62	6	35	22.5	—	589-1014-ND	31.88	26.22	20.55	ESHSR-0360C0-002R7
4	5.4	1.5	150	23	17	9	—	8.8	589-1007-ND	5.22	4.79	3.92	EMHSR-0001C5-005R4
	5.4	2.5	100	23	21	10.5	—	10.6	589-1008-ND	6.06	5.56	4.55	EMHSR-0002C5-005R4
						Pseudocapacitors (PSHLR Series)							
1	2.3	20	40	30	15	4	10	5	589-1009-ND	5.70	5.23	4.28	PSHLR-0020C0-002R3
	2.3	30	35	40	15	4	10	5	589-1010-ND	6.48	5.94	4.86	PSHLR-0030C0-002R3
	2.3	50	30	25	15	4	16	7.5	589-1011-ND	7.47	6.85	5.61	PSHLR-0050C0-002R3
	2.3	120	20	40	15	4	18	7.5	589-1012-ND	12.57	11.53	9.43	PSHLR-0120C0-002R3
2	2.3	220	15	45	6	22	2	10	589-1013-ND	20.01	18.35	15.01	PSHLR-0220C0-002R3

Fig. 1

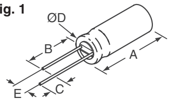

Fig. 2

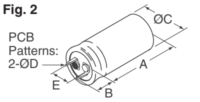

Fig. 3

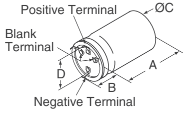

Fig. 4

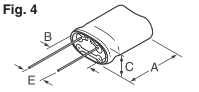

Insulator recommended for certain applications

TAIYO YUDEN

High Capacitance PAS Capacitors

PAS (Polyacenic Semiconductor) which was originally developed by Shoei Electronics (now a Taiyo Yuden owned company), is a kind of conductive polymer, synthesized through pyrolytic treatment of phenolic resin. When PAS is employed for both positive and negative electrodes, it shows extremely high performance. The capacitors are 1/2 ~ 1/3 smaller than conventional electric double layer capacitors and its low internal resistance enables quick charging and large current discharging.

FEATURES: • **High Capacitance:** PAS can store a large number of ions into its amorphous structure (doping), which gives them much more capacitance than conventional electric double layer capacitors • **Quick Charge & Discharge:** These capacitors can be charged and discharged quickly due to low internal resistance • **High Reliability:** It's possible to charge/discharge the capacitors more than 100,000 times with less deterioration, compared to a secondary battery

WV DC	Nominal Capacitance (F)	Internal Resistance (mΩ)	Dimensions - (mm)				Digi-Key Part No.	Price Each			Taiyo Yuden Part No.
			D	L	d	P		1	10	100	
					Large Capacitance (LA Series)						
2.3	4.7	300	10.0	20.0	0.6	5.0	587-2017-ND	7.68	7.04	5.76	PAS1020LA2R3475
	10	200	12.5	20.0	0.6	5.0	587-2018-ND	12.81	11.75	9.61	PAS1220LA2R3106
	22	100	12.5	35.0	0.6	5.0	587-2019-ND	17.94	16.45	13.46	PAS1235LA2R3226
	56	70	18.0	40.0	0.8	8.0	587-2020-ND	25.65	23.52	19.24	PAS1840LA2R3566
3.0	4.0	300	10.0	20.0	0.6	5.0	587-2021-ND	9.99	9.16	7.50	PAS1020LA3R0405
	9.0	200	12.5	20.0	0.6	5.0	587-2022-ND	16.68	15.29	12.51	PAS1220LA3R0905
	20	100	12.5	35.0	0.6	5.0	587-2023-ND	23.34	21.40	17.51	PAS1235LA3R0206
	50	70	18.0	40.0	0.8	8.0	587-2024-ND	33.33	30.56	25.00	PAS1840LA3R0506
					Low ESR (LR Series)						
2.3	1.0	70	8.0	15.0	0.6	3.5	587-2015-ND	8.97	8.23	6.73	PAS0815LR2R3105
	2.0	50	10.0	16.0	0.6	5.0	587-2016-ND	11.55	10.59	8.67	PAS1016LR2R3205

Dimensions in mm

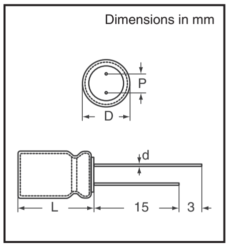

Aerogel Supercapacitors – A, B and P Series

The PowerStor Aerogel Capacitor is a unique, ultra-high capacitance device based on a novel type of carbon foam, known as carbon aerogel. Aerogel capacitors are similar to ultracapacitors and electrochemical double layer capacitors (EDLCs) and gold capacitors with the added benefit of low ESR. Temperature range: -25°C ~ 70°C

A Series: Features: • Ultra low ESR • Low leakage current • Long cycle life • High usable capacity • 2.5VDC working voltage can be configured in series for higher voltage applications **Applications:** • Pulse power • Hold-up power • DC/DC converters • Hybrid battery packs • Valve and solenoid actuation

B Series: Features: • Higher energy density • Very low ESR • Low leakage currents • Long cycle life • 2.5VDC working voltage can be configured in series for higher voltage applications **Applications:** • Main power • Hybrid battery packs • Hold-up power • Pulse power

P Series: Features: • Available in an ultra-low ESR version (PA), a low ESR but higher energy density version (PB) or Ultra Low ESR and high energy density (PM) • 5.0VDC working voltage **Applications:** PB Series: • Memory, microprocessor or RTC backup; PA and PM Series: • Pulse power • Hybrid battery packs • Hold-up power • Valve and solenoid actuation

Fig. 1

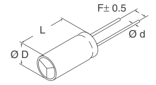

Fig. 2

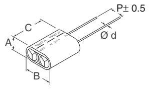

Capac-itance (F)	Nominal Internal Series Res. @ 1kHz(Ω)	Dimensions — mm				Digi-Key Part No.	Price Each			PowerStor Part No.
		D	L	d (±0.02)	F (±0.5)		1	10	100	
Fig. 1 — A Series										
.47	.150	8.5	21.0	.50	3.5	283-2771-ND	3.90	3.72	2.70	A0820-2R5474-R
1.0	.090	10.5	22.3	.60	5.0	283-2772-ND	5.85	5.58	4.05	A1020-2R5105-R
1.5	.060	10.5	31.5	.60	5.0	283-2773-ND	7.80	7.44	5.40	A1030-2R5155-R
4.7	.025	16.5	38.0	.80	7.5	283-2774-ND	14.63	13.95	10.13	A1635-2R5475-R
Fig. 1 — B Series										
.22	3.00	5.5	12.0	.50	2.0	283-2775-ND	1.46	1.40	1.02	B0510-2R5224-R
1.0	.400	8.5	13.5	.50	3.5	283-2776-ND	2.44	2.33	1.69	B0810-2R5105-R
1.5	.300	10.5	14.4	.60	5.0	283-2779-ND	3.67	3.51	2.55	B1010-2R5155-R
2.2	.200	8.5	21.0	.50	3.5	283-2777-ND	4.88	4.65	3.38	B0820-2R5225-R
3.3	.150	10.5	22.3	.60	5.0	283-2780-ND	6.11	5.83	4.23	B1020-2R5335-R
4.7	.150	8.5	31.0	.50	3.5	283-2778-ND	6.50	6.20	4.50	B0830-2R5475-R
6.8	.100	10.5	31.5	.60	5.0	283-2781-ND	7.31	6.98	5.07	B1030-2R5685-R
10	.060	13.5	28.4	.60	5.0	283-2782-ND	8.58	8.19	5.94	B1325-2R5106-R
22	.040	16.5	38.0	.80	7.5	283-2783-ND	17.06	16.28	11.82	B1635-2R5226-R
33	.030	18.5	38.0	.80	7.5	283-2784-ND	23.17	22.11	16.05	B1835-2R5336-R
50	.025	18.5	42.0	.80	7.5	283-2785-ND	29.02	27.69	20.10	B1840-2R5506-R
100	.020	18.5	60.0	.80	7.5	283-2824-ND	37.70	35.96	26.10	B1860-2R5107-R

Capac-itance (F)	Nominal Internal Series Res. @ 1kHz (Ω)	Dimensions — mm					Digi-Key Part No.	Price Each			PowerStor Part No.
		A	B	C	d (±0.02)	P (±0.5)		1	10	100	
Fig. 2 — PA Series											
.22	.300	8.5	16.8	21.5	0.5	11.8	283-2786-ND	6.34	6.05	4.39	PA-5R0V224-R
.47	.200	10.5	20.8	21.5	0.6	5.3	283-2787-ND	8.06	7.69	5.58	PA-5R0V474-R
Fig. 2 — PB Series											
.10	10.0	5.5	10.8	12.5	0.5	7.3	283-2788-ND	3.41	3.26	2.37	PB-5R0V104-R
.47	2.00	8.5	16.8	12.5	0.5	11.8	283-2790-ND	4.65	4.44	3.22	PB-5R0V474-R
1.0	1.00	8.5	16.8	21.5	0.5	11.8	283-2789-ND	7.31	6.98	5.07	PB-5R0V105-R
NEW! Fig. 2 — PM Series NEW!											
1.5	0.07	11.0	21.3	23.0	0.6	5.3	283-2857-ND	10.89	10.39	7.54	PM-5R0V155-R
3.0	0.05	11.0	21.3	32.5	0.6	5.3	283-2858-ND	14.46	13.80	10.02	PM-5R0V305-R

Supercapacitors – KR Series

Features: • Wide range of high capacitance coin cell style products for use in memory and RTC back-up applications: computers, camera's, camcorders, telephones, printers, car stereos, CCTV, set top box and PDP • Vinyl sleeve protection **Specifications**: • Surge Voltage: 6.3V • Capacitance Tolerance: -20% ~ 80% (20°C) • Operating Temperature Range: -25°C ~ 70°C

Fig. 1

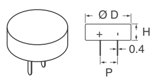

Fig. 2

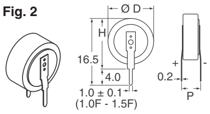

Fig. 3

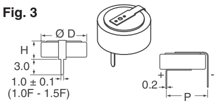

Working Voltage (DC)	Capaci-tance (F)	Internal Resis-tance (Ω)	Dimensions — mm			Digi-Key Part No.	Price Each			PowerStor Part No.
			øD	H	P		1	10	100	
Fig. 1 – C Type										
5.5	.10	75	13.5	7.5	5	283-2806-ND	2.11	2.02	1.47	KR-5R5C104-R
	.22	75	13.5	7.5	5	283-2807-ND	2.11	1.95	1.47	KR-5R5C224-R
	.33	50	13.5	7.5	5	283-2808-ND	2.11	1.95	1.47	KR-5R5C334-R
	.47	50	13.5	7.5	5	283-2809-ND	3.74	3.45	2.59	KR-5R5C474-R
	1.0	30	21.5	7.5	5	283-2810-ND	4.23	4.03	2.93	KR-5R5C105-R
	1.5	30	21.5	7.5	5	283-2811-ND	5.53	5.10	3.83	KR-5R5C155-R
Fig. 2 – V Type										
5.5	.10	75	11.5	12.5	5	283-2812-ND	2.11	1.95	1.47	KR-5R5V104-R
	.22	75	11.5	12.5	5	283-2813-ND	2.11	2.02	1.47	KR-5R5V224-R
	.33	50	11.5	12.5	5	283-2814-ND	2.11	2.02	1.47	KR-5R5V334-R
	.47	50	11.5	12.5	5	283-2815-ND	3.74	3.57	2.59	KR-5R5V474-R
	1.0	30	19	19.5	5	283-2816-ND	4.23	3.90	2.93	KR-5R5V105-R
	1.5	30	19	19.5	5	283-2817-ND	5.53	5.10	3.83	KR-5R5V155-R
Fig. 3 – H Type										
5.5	.10	75	11.5	5	10	283-2818-ND	2.11	1.95	1.47	KR-5R5H104-R
	.22	75	11.5	5	10	283-2819-ND	2.11	1.95	1.47	KR-5R5H224-R
	.33	50	11.5	5	10	283-2820-ND	2.11	1.95	1.47	KR-5R5H334-R
	.47	50	11.5	5	10	283-2821-ND	3.74	3.45	2.59	KR-5R5H474-R
	1.0	30	19	6.5	20	283-2822-ND	4.23	3.90	2.93	KR-5R5H105-R
	1.5	30	19	6.5	20	283-2823-ND	5.53	5.10	3.83	KR-5R5H155-R

NEW! Surface Mount Supercapacitors — KS, KSL and KSR Series

KS Series: Features: • Eco-friendly • Long life cycle • High-rated voltage **Specifications:** • Working Voltage: KS-2R8-334-R: 2.8V; KS-3R3-224-R: 3.3V • Capacitance Tolerance: -20% ~ 80% (20°C) • Operating Temperature Range: KS-2R8-334-R: -25°C ~ 70°C; KS-3R3-224-R: -10°C ~ 60°C **Applications:** RTC back-up (MP3, PMP, MD Player) DSC Wireless and cellular phones • Pagers and PDAs • Solar watch and solar calculators

KSL Series: Features: • Eco-friendly • Compatible with lead free reflow solder (260°C peak) **Specifications:** • Working Voltage: 3.3V • Capacitance Tolerance: -20% ~ 80% (20°C) • Operating Temperature Range: -25°C ~ 70°C **Applications:** • RTC back-up (MP3, PMP, MD Player) DSC Wireless and Cellular phones, pagers, PDAs, etc. • Solar watch and solar calculators

KSR Series: Features: • Eco-friendly **Specifications:** • Working Voltage: 3.3V • Capacitance Tolerance: -20% ~ 80% (20°C) • Operating Temperature Range: -10°C ~ 60°C **Applications:** • RTC back-up (MP3, PMP, MD Player) DSC Wireless and Cellular phones, pagers, PDAs, etc. • Solar watch and solar calculators

Fig. 1

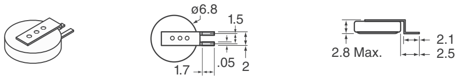

Fig. 2

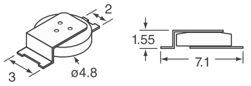

Fig. 3

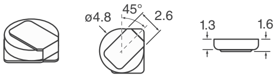

Fig. 4

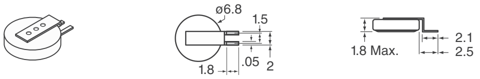

Capaci-tance (F)	Nominal Internal Series Resistance @ 1kHz (Ω)	Digi-Key Part No.	Price Each			Tape and Reel†		PowerStor Part No.
			1	10	100	Qty.	Pricing	
Fig. 1 — KS Series								
0.33	100	283-2862-ND	2.11	2.02	1.47	—	—	KS-2R8-334-R
0.22	200	283-2863-ND	1.85	1.77	1.29	—	—	KS-3R3-224-R
Fig. 2 — KSL Series								
0.07	100	283-2860-1-ND‡	1.69	1.56	1.31	4,000	585.00/M	KSL-3R3703E-R
Fig. 3 — KSL Series								
0.07	100	283-2861-1-ND‡	1.69	1.56	1.31	4,000	585.00/M	KSL-3R3703S-R
Fig. 4 — KSR Series								
0.20	200	283-2859-ND	1.46	1.40	1.02	—	—	KSR-3R3204-R

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape

BestCap® Ultra-Low ESR

High Power Pulse Supercapacitor

Features: AVX's BestCap technology provides excellent high power pulse characteristics based upon the combination of very high capacitance and ultra-low ESR, together with extremely low leakage current. Based on a unique patented aqueous chemistry and an innovative design, this series offers high capacitance, even with short pulse applications such as in GSM, GPRS, Edge, and PCS based systems.

While BestCap technology offers more efficient energy savings in battery circuits than conventional supercapacitors, its low ESR results in a high current handling capability, making this an ideal solution for any portable or wireless device requiring high power availability.

Specifications: • Capacitance Tolerance: -20% ~ 80% • Temperature Range: A Series: -20°C ~ 75°C; B Series: -20°C ~ 70°C

Fig. 1

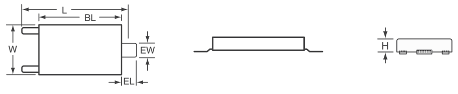

Case Dimensions: Inches (mm)					
Case Size	BL +1.0 (0.040)/-0	W +1.0(0.040)/-0	L ±1.0(0.040)	EL ±0.5 (0.020)	EW ±0.2(0.008)
BZ01	1.102 (28)	0.669 (17)	1.524 (38.7)	0.197 (5.0)	0.177 (4.5)
BZ05	0.787 (20)	0.591 (15)	1.024 (26)	0.138 (3.5)	0.098 (2.5)

Fig. 2

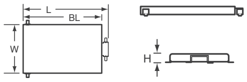

Case Dimensions: Inches (mm)			
Case Size	BL +1.0 (0.040)/-0	W +1.0(0.040)/-0	L ±1.0(0.040)
BZ02	1.890 (48)	1.181 (30)	2.047 (52)
BZ12	1.890 (48)	1.221 (31)	2.087 (53)

Fig.	Capac-itance (F)	Rated Voltage (V)	Typ. ESR @1 kHz (mΩ)	Maximum Leakage Current (µA)	Dim. H (mm)	Digi-Key Part No.	Price Each			AVX Part No.
							1	10	100	
1	.050	3.6	100	5	3.2	478-3521-ND	15.05	12.90	10.75	BZ013B503ZSB
	.100	5.5	80	10	7.2	478-3522-ND	19.25	16.50	13.75	BZ015A104ZSB
	.022	12.0	350	5	7.6	478-3523-ND	26.25	22.50	18.75	BZ01CA223ZSB
	.015	5.5	250	5	2.7	478-3645-ND	15.75	13.50	11.25	BZ055B153ZSB
	.033	5.5	250	5	3.5	478-3646-ND	18.20	15.60	13.00	BZ055A333ZSB
2	.40	5.5	35	40	6.9	478-3524-ND	53.90	46.20	38.50	BZ025A404ZLB
	1.0	5.5	35	40	6.1	478-3525-ND	68.25	58.50	48.75	BZ125A105ZLB

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic®

SG Series Gold Capacitors

Electric Double Layer Capacitors

Specifications:

- Operating Temperature Range: -25°C ~ 70°C • Nominal Capacitance Range: 0.022F ~ 1.0F (20°C)
- Capacitance Tolerance: -20% ~ 80%

Temperature Characteristics:

- Capacitance Change -25°C ~ 70°C: ±30% at 20°C • Internal Resistance -25°C: ≤5 times at 20°C • Inflow Current at 70°C: ≤4 times at 20°C

Load Life Characteristics: (After 1000 hours with rated voltage of 5.5VDC applied at 70°C)

- Capacitance Change: ±30% of initial measured value • Internal Resistance: ≤4 times of initial specified value • Inflow Current: ≤2 times of initial specified value

Vertical

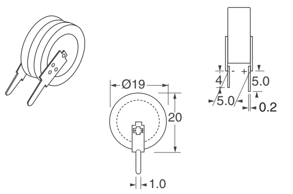

Horizontal

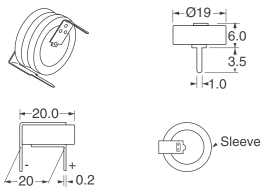

WV DC	Nominal Capacitance (F)	Internal Resistance Ω (1kHz)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
Vertical								
5.5	0.47	30	P6974-ND	4.65	3.71	2.91	1.86	EEC-S5R5V474
	1.0	30	P6975-ND	4.82	3.84	3.01	1.93	EEC-S5R5V105
	1.5	30	P11343-ND	5.55	4.42	3.46	2.22	EEC-S5R5V155
Horizontal								
5.5	0.47	30	P6980-ND	4.65	3.71	2.91	1.86	EEC-S5R5H474
	1.0	30	P6981-ND	4.82	3.84	3.01	1.93	EEC-S5R5H105
	1.5	30	P11342-ND	5.55	4.42	3.46	2.22	EEC-S5R5H155

SD Series Gold Capacitors

Electric Double Layer Capacitors

Features:

- 30% smaller than the SG series • Terminal solderability 95% • Longer life than a secondary battery • Best choice for μA range IC memory back-up

Specifications:

- Operating Temperature Range: -25°C ~ 70°C • Capacitance Tolerance: -20% ~ 80%

Temperature Characteristics:

- Capacitance Change -25°C ~ 70°C: ±30% at 20°C • Internal Resistance -25°C: ≤5 times at 20°C

Endurance: (After 1000 hours with rated voltage of 5.5VDC applied at 70°C)

- Capacitance Change: ±30% of initial measured value • Internal Resistance: ≤4 times the initial specified value

Vertical

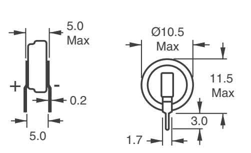

Horizontal

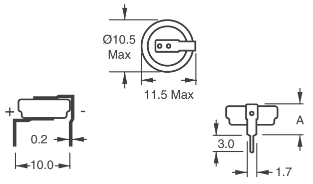

WV DC	Nominal Cap. (F)	Internal Resistance Ω (1kHz)	Dim. A mm (Max.)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
Vertical									
5.5	0.022	≤150	—	P10789-ND	1.85	1.24	.97	.62	EEC-S0HD223V
	0.047	≤120	—	P10790-ND	1.92	1.28	1.01	.65	EEC-S0HD473V
	0.10	≤75	—	P10791-ND	1.98	1.33	1.04	.67	EEC-S0HD104V
	0.22	≤75	—	P10792-ND	2.06	1.37	1.08	.69	EEC-S0HD224V
	0.33	≤75	—	P11065-ND	1.85	1.42	1.11	.71	EEC-S0HD334V
Horizontal									
5.5	0.022	≤150	5.5	P10785-ND	1.85	1.24	.97	.62	EEC-S0HD223H
	0.047	≤120	5.5	P10786-ND	1.92	1.28	1.01	.65	EEC-S0HD473H
	0.10	≤75	5.5	P10787-ND	1.98	1.33	1.04	.67	EEC-S0HD104H
	0.22	≤75	6.0	P10788-ND	2.06	1.37	1.08	.69	EEC-S0HD224H
	0.33	≤75	6.5	P11064-ND	1.85	1.42	1.11	.71	EEC-S0HD334H

EN Series Gold Capacitors Surface Mount

Electric Double Layer Capacitors

Features:

- Surface mount • Longer life than a secondary battery • Lead free stainless steel terminals

Applications:

- Audio/Video equipment • Robotics • Computers • Home appliance • Office equipment

Specifications:

- Operating Temperature Range: -10°C ~ 60°C • Capacitance Tolerance: -20% ~ 80% • Reflow Solder: 240°C 30 second maximum

Endurance: (After 500 hours with rated voltage of 3.3VDC applied at 60°C)

- Current: 300μA or less (at 30 minutes) • Capacitance Change: ±30% of initial measured value • Internal Resistance: 4KΩ or less

Type A

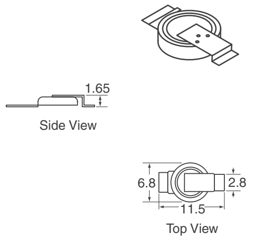

Type B

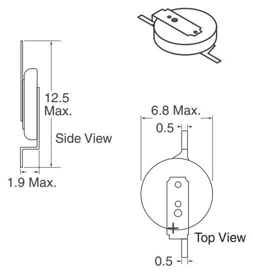

Type J1

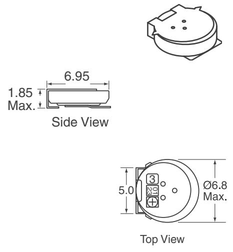

Type RL

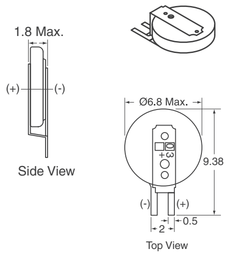

WV DC	Nom. Cap. (F)	Internal Resist. Ω Max.	Current μA	Terminal Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & ReelΔ Pricing 2,000	Panasonic Part No.
3.3	0.2	200	150	A	P11067CT-ND	2.19	1.88	1.47	938.00/M	EEC-EN0F204A
	0.2	200	150	B	P11068CT-ND	2.19	1.88	1.47	938.00/M	EEC-EN0F204B
	0.2	200	150	J1	P11070CT-ND	2.50	2.14	1.68	1070.00/M	EEC-EN0F204J1
	0.2	200	150	RL	P11069CT-ND	2.19	1.88	1.47	938.00/M	EEC-EN0F204RL

Δ For Tape and Reel part number, change CT-ND to TR-ND

EP Series Gold Capacitors Surface Mount

Electric Double Layer Capacitors

Features:

- Re-flow soldering method available (260°C) • Miniature size

Applications:

- Mobile Phones • PDA's • Digital Cameras

Specifications:

- Operating Temperature Range: -10°C ~ 60°C

Endurance: (After 500 hours application of 2.6VDC at 60°C the capacitor shall meet the following limits)

- Capacitance Change: ±30% of initial measured value
- Internal Resistance: 2kΩ or less

Shelf Life: (After 500 hours storage at 60°C without load, the capacitor shall meet the following limits)

- Capacitance Change: ±30% of initial measured value
- Internal Resistance: 1kΩ or less

Moisture Resistance: After 500 hours storage at 40°C, 90 to 95% R.H., the capacitor shall meet the specified limits for shelf life.

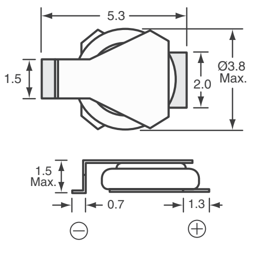

WV DC	Nom. Cap. (F)	Internal Resist. Ω Max.	Current μA	Cap. Range (F)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & ReelΔ Pricing 4,000	Panasonic Part No.
2.6	0.033	350	5	0.0264 ~ 0.0594	P13498CT-ND	2.83	2.15	1.62	1034.00/M	EEC-EP0E333A

Δ For Tape and Reel part number, change CT-ND to TR-ND

Panasonic®

HZ Series Gold Capacitors
Electric Double Layer Capacitors

Specifications: • Operating Temperature Range: -25°C ~ 60°C • Terminal Polarity: (—) Negative

Note: Taking into consideration the possibility of an imbalance in the voltages across the capacitors, make sure that the voltage applied to each capacitor will not exceed the maximum operating voltage.

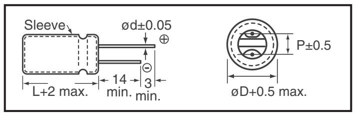

WV DC	Nominal Cap. (F)	Internal Resist. Ω (1kHz)	Dimensions (mm) øD	L	ød	P	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
2.5	3.3	0.3	8.0	20	0.6	3.5	P13762-ND	2.98	2.34	1.50	EEC-HZ0E335
	4.7	0.3	10	20	0.6	5.0	P13763-ND	3.11	2.44	1.56	EEC-HZ0E475
	10.0	0.2	10	30	0.6	5.0	P13764-ND	4.04	3.17	2.02	EEC-HZ0E106

HW Series Gold Capacitors
Electric Double Layer Capacitors

Specifications: • Operating Temperature Range: -25°C ~ 70°C (reflects capacitance range 1.0 ~ 22); -25°C ~ 60°C (reflects capacitance range 30 ~ 50) • Terminal Polarity: (—) Negative

Warning: If the voltage balance breaks down, an over voltage condition could result. To prevent this from occurring, add a voltage dividing resistor in parallel with each capacitor, allowing for the capacitor's leakage current.

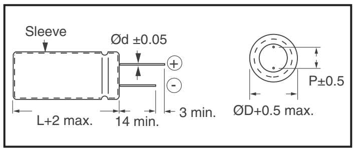

WV DC	Nominal Cap. (F)	Internal Resist. Ω (1kHz)	Dimensions (mm) øD	L	ød	P	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
2.3	3.3	≤0.3	12.5	23	0.8	5.0	P11347-ND	3.03	2.38	1.52	EEC-HW0D335
	4.7	≤0.3	12.5	23	0.8	5.0	P11344-ND	3.12	2.45	1.57	EEC-HW0D475
	10.0	≤0.2	12.5	35	0.8	5.0	P11345-ND	4.04	3.17	2.03	EEC-HW0D106
	22.0	≤0.1	18.0	35	0.8	7.5	P11346-ND	6.95	5.45	3.48	EEC-HW0D226
	30.0	≤0.1	18.0	35	0.8	7.5	P11348-ND	8.05	6.31	4.03	EEC-HW0D306
	50.0	≤0.1	18.0	40	0.8	7.5	P11066-ND	8.79	6.89	4.40	EEC-HW0D506
2.1	70.0	≤0.1	18.0	50	0.8	7.5	P11349-ND	14.81	11.61	7.41	EEC-HW0D706

AL Series Gold Capacitors
Electric Double Layer Capacitors

Specifications: • Operating Temperature Range: -25°C ~ 70°C • Rated Working Voltage: 2.5VDC • Nominal Capacitance Range: 0.22F ~ 10F (20°C) • Capacitance Tolerance: -20% ~ 80%
Temperature Characteristics: • Capacitance Change -25°C ~ 70°C: ±30% at 20°C • Internal Resistance -40°C: ≤3 times at 20°C • Inflow Current at 70°C: ≤3 times at 20°C
Load Life Characteristics: (After 1000 hours with rated voltage of 2.5VDC applied at 70°C) • Capacitance Change: ±30% of initial measured value • Internal Resistance: ≤2 times of initial specified value • Inflow Current: ≤2 times of initial specified value
Shelf Life: After 1000 hours storage at 70°C without load, the capacitor shall meet the specified limits for "Endurance"
Loading with Moisture: The capacitor shall meet the limits for "High Temperature Loading" after 500 hours exposure at 55°C/90 to 95% R.H. with 2.5VDC applied

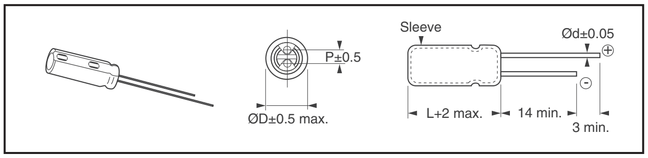

WV DC	Cap. (F)	Inflow Current* (mA)	Internal Resistance Ω (1kHz)	Dimensions (mm) øD	L	ød	P	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
2.5	1.0	0.18	1.0	8.0	22	0.7	3.5	P6963-ND	4.15	3.21	2.52	EEC-A0EL105
	3.3	0.30	0.3	12.5	23	0.8	5.0	P6966-ND	5.22	4.04	3.17	EEC-A0EL335
	4.7	0.44	0.2	12.5	35	0.8	5.0	P6967-ND	6.11	4.73	3.71	EEC-A0EL475
	10	0.60	0.1	18.0	35	0.8	7.5	P6969-ND	8.71	7.43	5.82	EEC-A0EL106

*Inflow current is measured after 90 minutes application of rated working voltage. In use, current will decrease to several µA level after approximately 10 hours application of rated working voltage.

F Series Gold Capacitors
Electric Double Layer Capacitors

Features: • Endurance: 85°C 1000 hours

Specifications: • Operating Temperature Range: -25°C ~ 85°C • Maximum Operating Voltage: 5.5VDC • Nominal Capacitance Range: 0.047 ~ 1.0F

Temperature Characteristics: • Capacitance Change: ±30% of initial measured value at 20°C (-25° ~ 85°C) • Internal Resistance: - 25°C: Less than 5 times of initial value at 20°C

Endurance: (After 1000 hours of 5.5VDC at 85°C, the capacitor shall meet the following limits) • Capacitance Change: ±30% of initial measured value • Internal Resistance: Less than 4 times of initial specified value

Shelf Life: After 1000 hours storage at 85°C without load, the capacitor shall meet the specified limits for "Endurance"

Moisture Resistance: After 500 hours storage at 55°C, 90% to 95% R.H., the capacitor shall meet the specified limits for "Endurance"

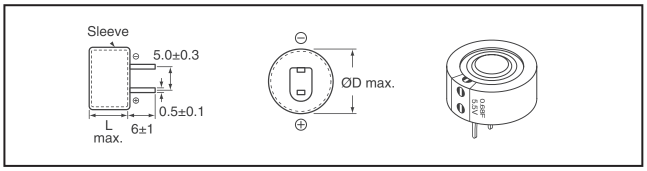

WV DC	Cap. (F)	Capacitance Range (F)	Current µA	Internal Resist. Ω (1kHz)	Case Code	Dim. (mm) øD	L	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
5.5	0.047	0.0376 ~ 0.0846	70	120	A	13.5	9.5	P12914-ND	3.48	2.79	2.18	EEC-F5R5H473
	0.10	0.080 ~ 0.180	100	100	A	13.5	9.5	P12912-ND	3.59	2.87	2.25	EEC-F5R5H104
	0.47	0.376 ~ 0.846	215	75	B	21.5	9.5	P12915-ND	8.44	6.76	5.30	EEC-F5R5H474
	0.68	0.476 ~ 1.224	315	50	B	21.5	9.5	P12916-ND	8.72	6.98	5.47	EEC-F5R5H684
	1.00	0.80 ~ 1.80	315	50	B	21.5	9.5	P12913-ND	8.99	7.20	5.64	EEC-F5R5H105

NF Series Gold Capacitors
Wet Type Electric Double Layer Capacitors

Gold capacitors provide super large capacitance by unique electrode and miniaturization technology meeting the trend of compactness. Suitable for a memory back-up for CMOS type RAM in microcomputers.

Features: • A long period memory back-up is available by excellent self-discharging characteristics • Low profile design is 9.5mm maximum in height and has a standardized 5mm terminal spacing • Superior to primary or secondary batteries in operating temperature range, charge/discharge characteristics, long time reliability and performance stability

Specifications: • Operating Temperature Range: -25°C ~ 70°C • Surge Voltage: 6.3VDC • Capacitance Tolerance: -20% ~ 80%

Temperature Characteristics: • Capacitance Change: ±30% at 20°C • Internal Resistance -25°C: Less than 5 times at 20°C • Leakage Current at 70°C: Less than 4 times at 20°C

Load Life Characteristics: (After 1000 hours with rated voltage of 5.5VDC applied at 70°C) • Capacitance Change: ±30% • Internal Resistance: Less than 4 times • Leakage Current: Less than 2 times

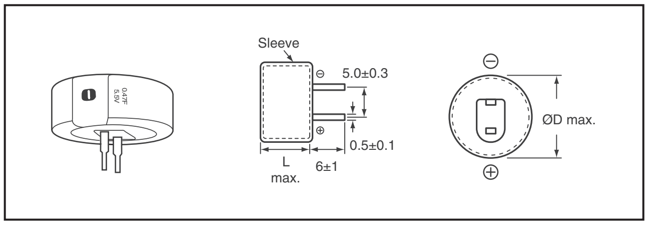

WV DC	Cap. (F)	Capacitance Range (F)	Inflow Current (30 min.)	Internal Resist. Ω (1kHz)	Dim. (mm) L	øD	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
5.5	0.1	0.08 ~ 0.18	100µA	75	7.5	13.5	P6952-ND	2.33	1.66	1.30	EEC-F5R5U104
	0.47	0.376 ~ 0.846	216µA	30	8.0	21.5	P6954-ND	5.41	4.07	3.19	EEC-F5R5U474
	1.0	0.8 ~ 1.8	315µA	30	8.0	21.5	P6955-ND	5.41	4.07	3.19	EEC-F5R5U105
	1.5	1.2 ~ 2.7	385	30	8.0	21.5	P11063-ND	6.63	4.82	3.77	EEC-F5R5U155

SII Seiko Instruments Inc.

XH-H Series Capacitors

The XH414H capacitor features high capacity, low impedance and long term reliability. It is most suitable for clock and memory backup in various electric equipment due to its wide operating voltage.

Features: • Pb-free reflowable • Superior heat resistance (260°C peak) allows reflow soldering by Pb-free solder • High rated voltage • High capacity • Low impedance • Quick charge/discharge performance • Long cycle life • Simple charging circuit (constant-voltage charging)
Operating Temperature: -25°C ~ 70°C
Applications: Power supply back up use for cellular phones, wireless phones, PHS, PDA, and MD players

Fig. 1

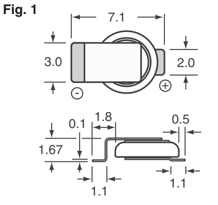

Fig. 2

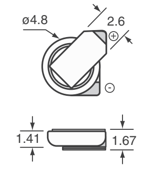

Fig. 3

Dim. in mm

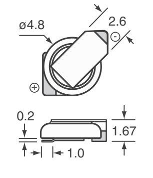

Fig.	Electrical Characteristics Nominal Voltage (V)	Electrostatic Capacity (F)	Internal Impedance (Ω)	Weight (g)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Seiko Instruments Part No.
1	3.0	0.07	70	0.07	728-1037-1-ND	2.38	2.04	1.60	728-1037-2-ND	3,600	1020.00/M	XH414H-II06E
2					728-1038-1-ND	2.24	1.92	1.51	728-1038-2-ND	4,000	960.00/M	XH414H-IV01E
3					728-1039-1-ND	2.38	2.04	1.60	728-1039-2-ND	3,600	1020.00/M	XH414H-IV02E

Electric Double Layer Capacitors

DB/DBJ/DBN Series — 5.5VDC

Features:
- Small-sized
- Large capacity
- Excellent voltage holding
- Wider temperature range than battery
- Ideal for backing up of CMOS, Microcomputers and RAM

Specifications:
- Operating Temperature Range: -25°C ~ 70°C (DB/DBN Series) -10°C ~ 85°C (DBJ Series)

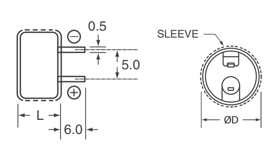

Rated Capaci-tance(F)	Dimensions (mm) D	L	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
DB Series								
.047	13.5	7.5	120	604-1000-ND	2.48	1.98	1.56	DB-5R5D473T
.10	13.5	7.5	75	604-1001-ND	2.48	1.98	1.56	DB-5R5D104T
.22	13.5	7.5	75	604-1004-ND	2.48	1.98	1.56	DB-5R5D224T
.33	13.5	7.5	75	604-1005-ND	2.48	1.98	1.56	DB-5R5D334T
.47	21.5	8.0	30	604-1002-ND	4.16	3.33	2.61	DB-5R5D474T
1.0	21.5	8.0	30	604-1003-ND	4.16	3.33	2.61	DB-5R5D105T
DBJ Series								
.047	13.5	7.5	200	604-1071-ND	2.63	2.10	1.65	DBJ-5R5D473T
.10	13.5	7.5	150	604-1072-ND	2.63	2.10	1.65	DBJ-5R5D104T
.22	13.5	7.5	150	604-1073-ND	2.63	2.10	1.65	DBJ-5R5D224T
.33	13.5	7.5	150	604-1074-ND	2.63	2.10	1.65	DBJ-5R5D334T
DBN Series								
.10	13.5	7.5	75	604-1070-ND	2.59	2.07	1.63	DBN-5R5D104T

DC/DCK Series

Features:
- Small sized
- Large capacity

Specifications:
- Operating Temperature Range: -25°C ~ 70°C (DC Series) - 10°C ~ 60°C (DCK Series)

Fig. 1

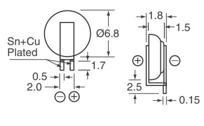

Fig. 2

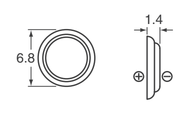

Fig.	WV DC	Rated Capaci-tance(F)	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
DC Series								
1	2.5	0.22	100	604-1006-ND	2.44	1.95	1.53	DC-2R5E224U-E
		0.20	100	604-1076-ND	2.61	2.09	1.64	DC-2R5E204T614-E
2	2.5	0.20	100	604-1075-ND	2.61	2.09	1.64	DC-2R5D204T614
DCK Series								
1	3.3	0.22	200	604-1007-ND	2.44	1.95	1.53	DCK-3R3E224U-E
		0.20	200	604-1078-ND	2.61	2.09	1.64	DCK-3R3E204T614-E
2	3.3	0.20	200	604-1077-ND	2.61	2.09	1.64	DCK-3R3D204T614

DH Series — 5.5VDC

Features:
- High temperature tolerant
- Highly reliable

Specifications:
- Operating Temperature Range: -25°C ~ 85°C

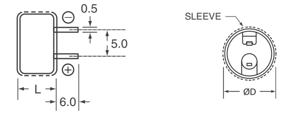

Rated Capaci-tance(F)	Dimensions (mm) D	L	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
.047	13.5	9.5	300	604-1008-ND	2.85	2.28	1.79	DH-5R5D473T
.10	13.5	9.5	200	604-1009-ND	2.85	2.28	1.79	DH-5R5D104T
.22	13.5	9.5	120	604-1010-ND	2.85	2.28	1.79	DH-5R5D224T
.47	21.5	9.5	50	604-1011-ND	6.11	4.89	3.84	DH-5R5D474T
.68	21.5	9.5	50	604-1012-ND	6.11	4.89	3.84	DH-5R5D684T
1.0	21.5	9.5	30	604-1013-ND	6.11	4.89	3.84	DH-5R5D105T

DK Series — 6.3VDC

Features:
- High voltage tolerance (6.3V guaranteed)
- Highly reliable • Ideal for backing up Li-battery back equipment

Specifications:
- Operating Temperature Range: -25°C ~ 70°C

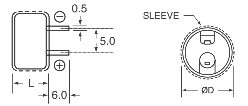

Rated Capaci-tance(F)	Dimensions (mm) D	L	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
.047	13.5	9.5	300	604-1014-ND	3.19	2.55	2.00	DK-6R3D473T
.10	13.5	9.5	200	604-1015-ND	3.19	2.55	2.00	DK-6R3D104T
.47	21.5	9.5	50	604-1016-ND	6.15	4.92	3.86	DK-6R3D474T
.68	21.5	9.5	50	604-1017-ND	6.15	4.92	3.86	DK-6R3D684T
1.0	21.5	9.5	30	604-1018-ND	6.15	4.92	3.86	DK-6R3D105T

DS/DSK Series

Features:
- Reflow soldering method available
- Highly reliable
- Safe
- Pollution free

Specifications:
- Operating Temperature Range: -10°C ~ 60°C

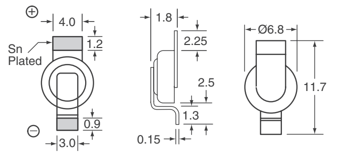

WV DC	Rated Capaci-tance(F)	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel Pricing* 1,500	ELNA Part No.
DS Series								
2.5	0.22	200	604-1019-1-ND	2.98	2.55	2.00	1275.00/M	DS-2R5H224U-HL
DSK Series								
3.3	0.22	200	604-1020-1-ND	2.98	2.55	2.00	1275.00/M	DSK-3R3H224U-HL

* For Tape and Reel part number, change 1-ND to 2-ND.

DX/DXJ Series — 5.5VDC

DX Series Features: • Smaller and lighter than DB Series • Miniaturized but can encase up to 0.33F in 11.5 x 5mm case **Specifications:** • Operating Temperature Range: -25°C ~ 70°C

DXJ Series Features: • High temperature type • 5mm tall max. thin profile (H-Shaped) • Miniaturized but can encase up to 0.33F in 11.5 x 5mm case **Specifications:** • Operating Temperature Range: -10°C ~ 85°C

Fig. 1

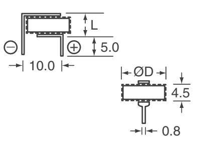

Fig. 2

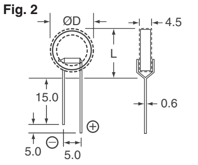

Fig. 3

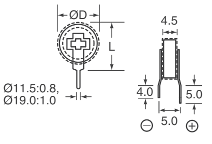

Fig.	Rated Capaci-tance(F)	Dimensions (mm) D	L	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
DX Series									
1	.047	11.5	5.0	120	604-1021-ND	2.14	1.71	1.34	DX-5R5H473U
	.10	11.5	5.0	75	604-1022-ND	2.14	1.71	1.34	DX-5R5H104U
	.22	11.5	5.0	75	604-1023-ND	2.14	1.71	1.34	DX-5R5H224U
	.33	11.5	5.0	75	604-1024-ND	2.14	1.71	1.34	DX-5R5H334U
2	.047	11.5	12.4	120	604-1025-ND	2.21	1.77	1.39	DX-5R5L473T
	.10	11.5	12.4	75	604-1026-ND	2.10	1.68	1.32	DX-5R5L104T
	.22	11.5	12.4	75	604-1027-ND	2.21	1.77	1.39	DX-5R5L224T
	.33	11.5	12.4	75	604-1028-ND	2.10	1.68	1.32	DX-5R5L334T
3	.047	11.5	13.0	120	604-1029-ND	2.14	1.71	1.34	DX-5R5V473U
	.10	11.5	13.0	75	604-1030-ND	2.14	1.71	1.34	DX-5R5V104U
	.22	11.5	13.0	75	604-1031-ND	2.14	1.71	1.34	DX-5R5V224U
	.33	11.5	13.0	75	604-1032-ND	2.14	1.71	1.34	DX-5R5V334U
	1.0	19.0	20.5	30	604-1033-ND	3.94	3.15	2.47	DX-5R5V105U
DXJ Series									
1	.047	11.5	5.0	200	604-1079-ND	2.36	1.89	1.49	DXJ-5R5H473U
	.10	11.5	5.0	150	604-1080-ND	2.36	1.89	1.49	DXJ-5R5H104U
	.22	11.5	5.0	150	604-1081-ND	2.36	1.89	1.49	DXJ-5R5H224U
	.33	11.5	5.0	150	604-1082-ND	2.36	1.89	1.49	DXJ-5R5H334U
2	.047	11.5	12.4	200	604-1083-ND	2.44	1.95	1.53	DXJ-5R5L473T
	.10	11.5	12.4	150	604-1084-ND	2.44	1.95	1.53	DXJ-5R5L104T
	.22	11.5	12.4	150	604-1085-ND	2.44	1.95	1.53	DXJ-5R5L224T
	.33	11.5	12.4	150	604-1086-ND	2.44	1.95	1.53	DXJ-5R5L334T
3	.047	11.5	13.0	200	604-1087-ND	2.36	1.89	1.49	DXJ-5R5V473U
	.10	11.5	13.0	150	604-1088-ND	2.36	1.89	1.49	DXJ-5R5V104U
	.22	11.5	13.0	150	604-1089-ND	2.36	1.89	1.49	DXJ-5R5V224U
	.33	11.5	13.0	150	604-1090-ND	2.36	1.89	1.49	DXJ-5R5V334U

DZ/DZN Series — 2.5VDC

Features: • Low internal resistance allows boosting charge and heavy-current discharge • Unlimited number of charges and discharges **Specifications:** • Operating Temperature Range: -25°C ~ 70°C

Fig. 1

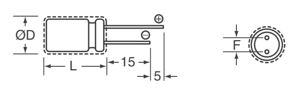

Fig. 2

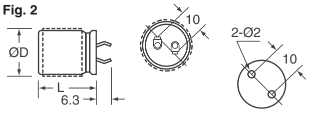

Fig.	Rated Capaci-tance(F)	Dimensions (mm) D	L	F	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
DZ Series										
1	1.0	8.0	22.0	3.5	1.0	604-1034-ND	3.19	2.55	2.00	DZ-2R5D105T
	3.3	12.5	23.0	5.0	0.3	604-1035-ND	4.13	3.30	2.59	DZ-2R5D335T
	4.7	12.5	31.5	5.0	0.2	604-1036-ND	5.06	4.05	3.18	DZ-2R5D475T
	10	18.0	35.0	7.5	0.2	604-1037-ND	10.31	8.25	6.47	DZ-2R5D106T
	20	18.0	40.0	7.5	0.2	604-1038-ND	12.11	9.69	7.60	DZ-2R5D206T
2	50	25.0	40.0	—	0.08	604-1039-ND	23.40	18.33	11.70	DZ-2R5D506T
	100	35.0	50.0	—	0.08	604-1040-ND	31.66	23.92	19.70	DZ-2R5D107T
	200	35.0	50.0	—	0.08	604-1041-ND	45.32	34.24	28.20	DZ-2R5D207S57T
	300	35.0	50.0	—	0.08	604-1091-ND	74.16	59.33	51.92	DZ-2R5D307S57T
DZN Series										
1	3.3	12.5	23.0	5.0	0.2	604-1043-ND	4.28	3.42	2.68	DZN-2R5D335T
	4.7	12.5	31.5	5.0	0.10	604-1044-ND	5.36	4.29	3.37	DZN-2R5D475T
	10	18.0	35.0	7.5	0.10	604-1045-ND	11.10	8.88	6.96	DZN-2R5D106T
	20	18.0	40.0	7.5	0.10	604-1046-ND	15.60	12.48	9.78	DZN-2R5D206T
2	50	25.0	40.0	—	0.03	604-1047-ND	24.27	19.02	12.14	DZN-2R5D506T
	100	35.0	50.0	—	0.03	604-1048-ND	40.05	30.26	24.92	DZN-2R5D107T

DCMC Series Screw Terminal Aluminum Electrolytic Capacitors

85°C High Capacitance Computer Grade

The DCMC series capacitor is the best choice for high-capacitance, power supply filters and energy storage applications such as welding equipment, UPS systems and computer hold-up power. The extended cathode foil of the DCMC assures cool operation with heatflow from the capacitor element to the can.

Specifications: • **Operating Temperature:** -40°C ~ 85°C • **Life Test:** 4,000 hours at 85°C and rated voltage (ΔCapacitance ±20%, ESR 200% of limit, DCL 100% of limit) • **Shelf Life:** 500 hours @ 85°C

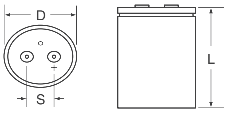

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @ 85°C 120Hz (A)	Dimensions Inches D	L	S	Digi-Key Part No.	Price Each 1	10	50	100	Cornell Dubilier Part No.
50	38000	16.3	11.9	2.000	3.125	0.875	338-1220-ND	41.59	35.03	32.84	30.65	DCMC383U050BB2B
75	30000	15.6	12.1	2.000	4.125	0.875	338-1221-ND	45.89	38.64	36.23	33.81	DCMC303U075BC2B
	46000	12.0	15.8	2.000	5.625	0.875	338-1222-ND	61.60	51.88	48.63	45.39	DCMC463U075BF2B
	74000	12.9	17.0	3.000	4.125	1.250	338-1223-ND	91.35	76.93	72.12	67.32	DCMC743U075DC2B
200	4300	46.1	7.1	2.000	3.125	0.875	338-1224-ND	45.60	38.40	36.00	33.60	DCMC432T200BB2B
	6900	28.5	9.7	2.000	4.125	0.875	338-1225-ND	62.55	52.68	49.38	46.09	DCMC692T200BC2B
450	1000	137.0	4.3	2.000	3.125	0.875	338-1226-ND	47.82	40.28	37.76	35.24	DCMC102T450BB2B
	1500	89.5	5.3	2.000	4.125	0.875	338-1227-ND	52.44	44.16	41.40	38.64	DCMC152T450BC2B
	1800	76.0	6.4	2.000	4.625	0.875	338-1228-ND	72.35	60.93	57.12	53.32	DCMC182T450BD2B
	2200	58.6	7.1	2.000	5.625	0.875	338-1229-ND	84.76	71.38	66.92	62.46	DCMC222T450BF2B
	2200	68.2	6.9	2.500	4.125	1.125	338-1230-ND	71.31	60.05	56.30	52.55	DCMC222T450CC2B
	2400	54.7	7.7	2.500	4.125	1.125	338-1231-ND	85.50	72.00	67.50	63.00	DCMC242T450CC2B
	3300	40.4	9.2	2.500	5.125	1.125	338-1232-ND	108.66	91.08	84.80	81.66	DCMC332T450CE2B
	4700	32.5	12.0	3.000	5.125	1.250	338-1233-ND	95.15	79.75	74.25	71.50	DCMC472T450DE2B
	5600	28.8	13.3	3.000	5.625	1.250	338-1234-ND	120.77	101.23	94.25	90.76	DCMC562T450DF2B
	8200	19.0	17.9	3.000	8.625	1.250	338-1236-ND	156.53	131.20	122.15	117.63	DCMC822T450DG2B

CGS Series Screw Terminal Aluminum Electrolytic Capacitors

85°C Computer Grade

Features:

High CV Product, suitable for use in most demanding applications requiring high current filtering or energy storage.

Specifications:

• **Operating Temperature:** -40°C ~ 85°C

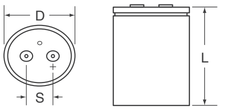

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @ 85°C 120Hz (A)	Dimensions Inches D	L	S	Digi-Key Part No.	Price Each 1	10	50	100	Cornell Dubilier Part No.
40	9000	19.0	8.2	1.375	4.125	0.500	338-1238-ND	19.46	16.55	14.60	13.63	CGS902U040R4C
50	9600	18.0	10.3	2.000	4.125	0.875	338-1239-ND	26.08	22.17	19.56	18.26	CGS962U050V4C
	18000	34.0	6.8	2.000	3.125	0.875	338-1240-ND	25.18	21.41	18.89	17.63	CGS183U050V3C
	20000	21.0	9.5	2.000	4.125	0.875	338-1241-ND	26.37	22.42	19.78	18.47	CGS203U050V4C
	31000	28.0	9.6	2.500	4.125	1.125	338-1242-ND	36.04	30.64	27.03	25.23	CGS313U050W4C
	56000	5.0	23.1	3.000	3.625	1.250	338-1243-ND	54.92	46.69	41.19	38.45	CGS563U050X3L
75	10000	41.0	6.2	2.000	3.125	0.875	338-1244-ND	24.59	20.91	18.45	17.22	CGS103U075V3C
100	15000	51.0	7.9	3.000	4.125	1.250	338-1245-ND	72.16	61.34	54.13	50.52	CGS153U100X4C
250	1200	80.0	4.4	2.000	3.125	0.875	338-1246-ND	24.26	20.63	18.20	16.99	CGS122T250V3C
350	3300	44.0	9.5	3.000	5.625	1.250	338-1247-ND	73.50	62.48	55.13	51.45	CGS332T350X5L
450	210	332.0	1.9	1.375	4.125	0.500	338-1248-ND	19.29	16.40	14.47	13.51	CGS211T450R4C
	2400	38.0	10.3	3.000	5.625	1.250	338-1250-ND	88.08	74.87	66.06	61.66	CGS242T450X5L

500C Series Screw Terminal Aluminum Electrolytic Capacitors

95°C Long Life Computer Grade

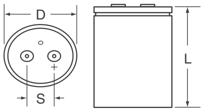

Type 500C capacitors are designed for mainframe computers and other long-life UPS and power supply filter applications. They deliver nearly as much capacitance as the DCMC capacitance, but with two times the life expectancy. They are an excellent choice for high ripple applications. The extended cathode foil of the 500C assures cool operation with heat flow from the capacitor element to the can.

Features: • Long life • High capacitance • For Power supply and UPS systems • Thermal-Pak™ extended cathode construction.

Specifications: • **Operating Temperature:** -40°C ~ 95°C

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @ 85°C 120Hz (A)	Dimensions Inches D	L	S	Digi-Key Part No.	Price Each 1	10	50	100	Cornell Dubilier Part No.
25	12000	49.1	5.1	1.375	2.125	0.500	338-1251-ND	17.44	14.83	13.08	12.21	500C123T025AA2B
	22000	41.2	7.0	2.000	2.125	0.875	338-1252-ND	24.70	21.00	18.53	17.29	500C223T025BA2B
	47000	19.4	11.7	2.000	3.125	0.875	338-1253-ND	33.28	28.29	24.96	23.30	500C473T025BB2B
	68000	14.9	14.1	2.000	3.625	0.875	338-1254-ND	37.72	31.76	29.78	27.79	500C683T025BJ2B
40	6000	29.0	7.5	1.375	3.125	0.500	338-1255-ND	17.48	14.86	13.11	12.24	500C602T040AB2B
	22000	30.0	9.4	2.000	3.125	0.875	338-1257-ND	31.34	26.64	23.51	21.94	500C223T040BB2B
50	4100	35.1	6.9	1.375	3.125	0.500	338-1258-ND	17.80	15.13	13.35	12.46	500C412T050AB2B
	6800	46.0	6.0	1.375	3.125	0.500	338-1259-ND	20.32	17.28	15.24	14.23	500C682T050AB2B
	10000	32.8	7.9	1.375	4.125	0.500	338-1260-ND	23.54	20.01	17.66	16.48	500C103T050AC2B
	15000	20.1	12.7	2.000	4.125	0.875	338-1261-ND	30.50	25.93	22.88	21.35	500C153T050BC2B
	20000	16.5	14.1	2.000	4.125	0.875	338-1262-ND	37.16	31.59	27.87	26.02	500C203T050BC2B
100	2500	82.0	3.9	1.375	2.125	0.500	338-1263-ND	20.48	17.41	15.36	14.34	500C252T100AA2B
	4000	57.6	5.9	2.000	2.125	0.875	338-1264-ND	28.72	24.42	21.54	20.11	500C402T100BA2B
	10000	22.9	11.3	2.000	3.625	0.875	338-1265-ND	43.34	36.50	34.22	31.94	500C103T100BJ2B
	18000	12.7	18.2	2.500	4.125	1.125	338-1266-ND	65.74	55.36	51.90	48.44	500C183T100CC2B
250	550	99.0	4.5	1.375	4.125	0.500	338-1267-ND	20.04	17.04	15.03	14.03	500C551T250AC2B
	1200	100.0	4.4	2.000	2.125	0.875	338-1268-ND	30.50	25.93	22.88	21.35	500C122T250BA2B
	6000	21.7	14.2	3.000	3.125	1.250	338-1269-ND	81.00	68.21	63.95	59.69	500C602T250DB2B
	10000	16.3	18.6	3.000	4.625	1.250	338-1270-ND	111.43	93.40	86.96	83.74	500C103T250DD2B
350	1000	142.0	4.0	2.000	2.625	0.875	338-1271-ND	36.14	30.72	27.11	25.30	500C102T350BH2B
	5600	27.0	14.3	3.000	4.625	1.250	338-1272-ND	124.28	104.17	96.99	93.40	500C562T350DD2B
450	450	306.0	2.9	2.000	3.125	0.875	338-1273-ND	33.26	28.28	24.95	23.29	500C451T450BB2B
	1000	141.0	4.6	2.000	3.625	0.875	338-1274-ND	48.58	40.92	38.36	35.80	500C102T450BJ2B
	1800	78.0	7.2	2.000	5.625	0.875	338-1275-ND	74.33	62.60	58.68	54.77	500C182T450BF2B
	1800	70.0	9.6	3.000	5.625	1.250	338-1276-ND	78.70	66.28	62.13	57.99	500C182T450DF2B
	2200	68.0	7.8	2.500	4.125	1.125	338-1277-ND	87.63	73.80	69.18	64.57	500C222T450CC2B
	2400	61.0	9.9	3.000	5.125	1.250	338-1278-ND	88.33	74.04	68.94	66.38	500C242T450DE2B
	3100	48.0	10.4	2.500	5.625	1.125	338-1279-ND	106.00	88.85	82.72	79.66	500C312T450CF2B
	3600	23.0	17.6	3.000	4.625	1.250	338-1280-ND	122.09	102.33	95.27	91.75	500C362T450DD2B

Capacitor Mounting Hardware

Fig.	Dimension - Inches (mm) A	Material	Digi-Key Part No.	Price Each 1	10	50	100	Cornell Dubilier Part No.
1	2.000 (50.80)	Metal	338-1364-ND	2.04	1.36	1.18	1.11	125565-09
	2.500 (63.50)	Metal	338-1365-ND	7.05	5.22	4.60	4.32	115058-14
	3.000 (76.20)	Metal	338-1366-ND	7.50	5.40	4.80	4.50	125565-11
2	3.500 (88.90)	Plastic	338-1367-ND	6.98	5.17	4.55	4.27	125309-01

Fig. 1

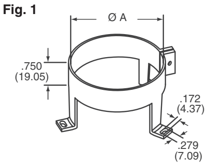

Fig. 2

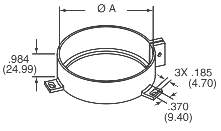

B43305 Series Aluminum Electrolytic Snap-In Capacitors Ultra Compact 85°C

Features: • Extremely high CV product • High ripple current capability
Applications: • Switch-mode power supplies in industrial and entertainment electronics • Uninterruptible power supplies

W.V. DC	Capacitance (µF)	Case Size D x L (mm)	Typical ESR @ 20°C 100Hz (mΩ)	Rated Ripple Current @85°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
						1	10	50	
200V	680	25 x 30	190	2.13	495-3496-ND	5.19	3.66	3.18	B43305B2687M000
	1,000	25 x 40	130	2.76	495-3494-ND	6.81	4.80	4.17	B43305B2108M000
	1,500	30 x 40	85	3.44	495-3495-ND	7.72	5.44	4.72	B43305B2158M000
400V	470	30 x 40	290	2.23	495-3497-ND	12.32	8.67	7.53	B43305B9477M000
	680	35 x 40	200	2.64	495-3498-ND	14.05	11.00	9.48	B43305B9687M000
	1,000	35 x 50	140	3.38	495-3493-ND	19.97	15.64	13.47	B43305A9108M000

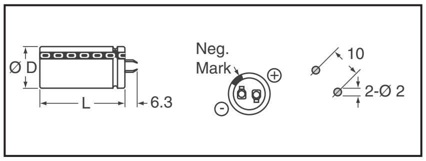

B43508 Series Aluminum Electrolytic Snap-In Capacitors Ultra Compact 105°C

Features: • Extremely high CV product • High reliability • High ripple current capability

Applications: • Frequency converters • Professional power supplies in industrial electronics and in data processing equipment • Switch-mode power supplies in entertainment electronics

W.V. DC	Capacitance (µF)	Case Size D x L (mm)	Typical ESR @ 20°C 100Hz (mΩ)	Rated Ripple Current @105°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
						1	10	50	
200V	680	25 x 35	170	1.68	495-3503-ND	6.35	4.48	3.89	B43508B2687M000
	1,000	30 x 35	120	1.95	495-3502-ND	9.51	6.70	5.82	B43508B2108M000
400V	470	30 x 40	260	1.70	495-3500-ND	13.78	10.79	9.29	B43508A9477M000
	560	35 x 40	220	1.83	495-3504-ND	12.38	9.69	8.35	B43508B9567M000
	680	30 x 55	180	2.20	495-3501-ND	18.51	14.49	12.48	B43508A9687M000
	1,000	35 x 55	120	2.64	495-3499-ND	27.15	21.25	18.30	B43508A9108M000

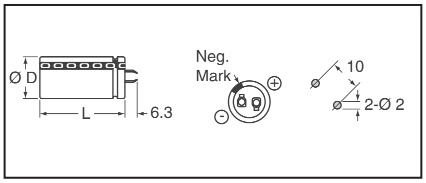

B43560 Series Screw Terminal Aluminum Electrolytic Capacitors

High Reliability 105°C

Features: • Good thermal characteristics and high ripple current capability • Compact design • Long useful life • Wide temperature range • All-welded construction ensures reliable electrical contact

Applications: • Frequency converters • Professional power supplies

Specifications: • Useful life @ 105°C: >6,000 hours • Useful life @ 40°C: >250,000 hours • IEC Climatic category: 40/105/56

W.V. DC	Capacitance (µF)	Case Size D x L (mm)	Maximum ESR @ 20°C 100Hz (mΩ)	Rated Ripple Current @105°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
						1	10	50	
350V	6,800	76.9 x 143.2	27	16.7	495-3505-ND	156.31	130.26	112.03	B43560A4688M000
400V	2,200	64.3 x 105.7	84	7.8	495-3508-ND	69.26	57.72	49.64	B43560A9228M000
450V	4,700	76.9 x 168.7	40	14.7	495-3506-ND	178.46	148.72	127.90	B43560A5478M000
	8,200	91.0 x 221.0	23	22	495-3507-ND	320.74	267.28	229.87	B43560A5828M000

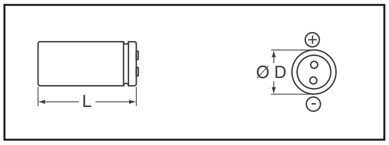

B43564 Series Screw Terminal Aluminum Electrolytic Capacitors

High Ripple Current 85°C

Features: • Long useful life • High reliability • Extremely good electrical characteristics and small dimensions • All-welded construction ensures reliable electrical contact • Self-extinguishing electrolyte
Applications: • Frequency converters • Professional power supplies • Uninterruptible power supplies
Specifications: • Useful life @ 85°C: >15,000 hours (>12,000 hours for 500V parts) • Useful life @ 40°C: >250,000 hours • IEC Climatic category: 25/85/56

W.V. DC	Capacitance (µF)	Case Size D x L (mm)	Maximum ESR @ 20°C 100Hz (mΩ)	Rated Ripple Current @85°C 100Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
						1	10	50	
160V	10,000	76.9 x 107.5	26	13	495-3511-ND	108.03	90.03	77.43	B43564A1109M000
250V	6,800	76.9 x 105.7	29	14.5	495-3512-ND	64.35	53.63	46.12	B43564A2688M000
350V	1,000	51.6 x 80.7	130	5.1	495-3513-ND	21.84	18.20	15.66	B43564A4108M000
450V	1,000	51.6 x 105.7	140	5.4	495-3514-ND	30.26	25.22	21.69	B43564A5108M000
500V	2,700	76.9 x 105.7	60	10.5	495-3515-ND	103.12	85.93	73.90	B43564A6278M000

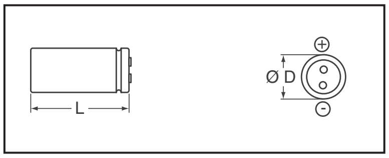

NEW! B43310 Series Screw Terminal Aluminum Electrolytic Capacitors General Purpose 85°C

Features: All welded construction ensures reliable electrical contact, high reliability and high ripple current capability.
Applications: Uninterruptible power supplies, frequency converters.
Specifications: Load life @ 85°C: 2000 hours, climatic category: 25/85/56

W.V. DC	Capacitance (µf)	Case Size D x L (mm)	Max. ESR @ 20°C 120Hz (mΩ)	Rated Ripple Current @ 85°C 120Hz (A)	Digi-Key Part No.	Price Each			Epcos Part No.
						1	10	50	
400	2,200	51.6 x 130	87	6.5	495-3653-ND	35.94	29.95	25.76	B43310A9228M000
	2,200	64.3 x 96	87	6.4	495-3654-ND	37.05	30.88	26.56	B43310C9228M000
	2,700	64.3 x 96	71	7.1	495-3655-ND	42.84	35.70	30.71	B43310A9278M000
	3,300	64.3 x 115	58	8.5	495-3656-ND	47.88	39.90	34.32	B43310A9338M000
	3,900	64.3 x 130	49	9.7	495-3657-ND	56.70	47.25	40.64	B43310A9398M000
	4,700	76.9 x 115	41	10.7	495-3658-ND	67.23	56.03	48.19	B43310A9478M000
	5,600	76.9 x 130	34	12.2	495-3659-ND	77.49	64.58	55.54	B43310A9568M000
	6,800	76.9 x 155	28	14.6	495-3660-ND	88.05	73.38	63.11	B43310A9688M000
	8,200	91.0 x 157	23	16.8	495-3661-ND	112.71	93.93	80.78	B43310A9828M000
	10,000	91.0 x 157	19	18.5	495-3662-ND	144.00	120.00	103.20	B43310A9109M000
	12,000	91.0 x 196	16	22.4	495-3663-ND	165.39	137.83	118.53	B43310A9129M000
	15,000	91.0 x 220	13	26.2	495-3664-ND	202.47	168.73	145.11	B43310A9159M000
450	1,800	51.6 x 130	102	6.0	495-3665-ND	36.24	30.20	25.98	B43310A5188M000
	2,200	64.3 x 96	83	6.5	495-3666-ND	42.93	35.78	30.77	B43310A5228M000
	2,700	64.3 x 115	68	7.8	495-3667-ND	50.76	42.30	36.38	B43310A5278M000
	3,300	64.3 x 130	55	9.1	495-3668-ND	59.64	49.70	42.75	B43310A5338M000
	3,900	76.9 x 115	49	9.7	495-3669-ND	70.80	59.00	50.74	B43310A5398M000
	4,700	76.9 x 130	41	11.2	495-3670-ND	84.75	70.63	60.74	B43310A5478M000
	5,600	76.9 x 155	34	13.3	495-3671-ND	101.46	84.55	72.72	B43310A5568M000
	6,800	91.0 x 157	28	15.3	495-3672-ND	127.14	105.95	91.12	B43310A5688M000
	8,200	91.0 x 157	23	16.8	495-3673-ND	150.54	125.45	107.89	B43310A5828M000
	10,000	91.0 x 196	19	20.4	495-3674-ND	184.59	153.83	132.29	B43310A5109M000
	12,000	91.0 x 220	16	23.5	495-3675-ND	216.36	180.30	155.06	B43310A5129M000

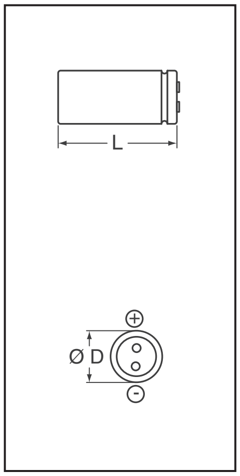

Panasonic®

TS Series Large Aluminum Electrolytic Capacitors

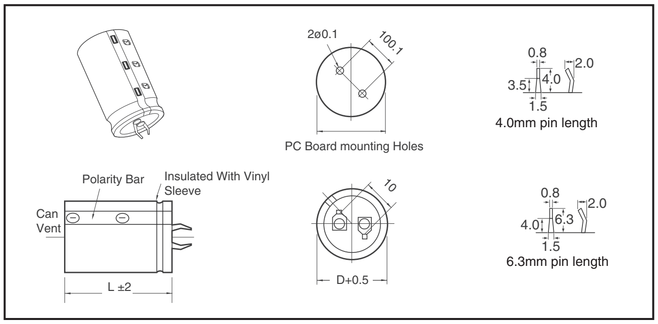

Operating Temperature:

- **TSU Series:** (63 ~ 250V/ -40°C ~ 85°C)
- **TSUP Series:** (16 ~ 250V/ -40°C ~ 85°C)
(400 ~ 500V/ -25°C ~ 85°C)
- **TSUQ Series:** (160 ~ 250V/ -40°C ~ 85°C)
(350 ~ 450V/ -25°C ~ 85°C)
- **TSNH Series:** (16 ~ 250V/ -40°C ~ 105°C)
(400V/ -25°C ~ 105°C)
- **TSHA Series:** (16 ~ 200V/ -40°C ~ 105°C)
(400V/ -25°C ~ 105°C)
- **TSHB Series:** (200 ~ 250V/ -40°C ~ 105°C)
(400 ~ 450V/ -25°C ~ 105°C)
- **TSHC Series:** (160 ~ 250V/ -40°C ~ 105°C)
(350 ~ 450V/ -25°C ~ 105°C)
- **TSED Series:** (200 ~ 250V/ -40°C ~ 105°C)
(400 ~ 450V/ -25°C ~ 105°C)

Capacitance Tolerance (at 120Hz): ±20%

Rated DC Voltage:	16	25	35	50	63	80	100	160	200	250	350	400	420	450	500
Surge Voltage:	20	32	44	63	79	100	125	200	250	300	400	450	470	500	550

Ripple Current Multiplier (mA):

Frequency (Hz):	50	60	120	500	1K	10K ~ 50K
16V ~ 100V:	0.93	0.95	1.0	1.05	1.08	1.15
160V ~ 500V:	0.75	0.8	1.0	1.2	1.25	1.4

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
TSU General Purpose 85°C, 2000 Hour Life											
63	3300	—	2.4	25	40	P6492-ND	4.20	3.45	2.90	2.02	ECE-S1JU332M
200	470	—	1.7	25	40	P6542-ND	4.02	3.30	2.77	1.93	ECE-S2DU471M
250	680	—	2.15	30	50	P6553-ND	6.24	5.28	4.56	3.42	ECE-S2EU681U
TSUP Miniaturized Size General Purpose 85°C, 3000 Hour Life											
16	4700	0.159	1.77	22	25	P7600-ND◆	2.20	1.86	1.34	1.01	ECO-S1CP472BA
	6800	0.110	2.57	22	25	P7601-ND◆	2.39	2.03	1.46	1.10	ECO-S1CP682BA
	8200	0.091	3.10	22	25	P7602-ND◆	2.50	2.12	1.53	1.15	ECO-S1CP822BA
	10000	0.075	3.78	25	25	P6861-ND◆	3.78	3.03	2.07	1.35	ECO-S1CP103CA
	12000	0.062	4.52	25	25	P6863-ND◆	3.50	2.88	2.01	1.40	ECO-S1CP123CA
	15000	0.053	5.26	25	30	P6865-ND	3.81	3.13	2.19	1.53	ECO-S1CP153CA
	18000	0.046	5.57	22	40	P6866-ND◆	3.94	3.23	2.26	1.58	ECO-S1CP183BA
	18000	0.046	5.57	25	30	P6867-ND◆	4.00	3.29	2.30	1.60	ECO-S1CP183CA
	22000	0.038	6.10	22	45	P6868-ND◆	4.38	3.60	2.52	1.76	ECO-S1CP223BA
	22000	0.038	6.10	30	30	P6869-ND	4.84	3.97	2.78	1.94	ECO-S1CP223DA
	27000	0.031	6.31	25	45	P6870-ND◆	5.13	4.21	2.95	2.06	ECO-S1CP273CA
	27000	0.031	6.31	30	35	P6871-ND◆	5.38	4.41	3.09	2.15	ECO-S1CP273DA
	33000	0.025	6.84	25	50	P6872-ND◆	4.82	4.09	2.94	2.21	ECO-S1CP333CA
	33000	0.025	6.84	35	30	P6873-ND◆	5.47	4.63	3.33	2.50	ECO-S1CP333EA
	39000	0.021	6.94	30	45	P6874-ND	5.75	4.87	3.51	2.63	ECO-S1CP393DA
	39000	0.021	6.94	35	35	P6875-ND◆	6.03	5.11	3.68	2.76	ECO-S1CP393EA
	47000	0.019	7.47	30	50	P6876-ND◆	6.34	5.37	3.87	2.90	ECO-S1CP473DA
	47000	0.021	7.47	35	40	P6877-ND◆	6.89	5.84	4.20	3.15	ECO-S1CP473EA
	56000	0.019	8.73	35	45	P6878-ND	7.65	6.48	4.66	3.50	ECO-S1CP563EA
	68000	0.018	9.05	35	50	P6879-ND◆	7.80	6.73	4.93	3.88	ECO-S1CP683EA
25	3300	0.161	1.68	22	25	P7603-ND◆	2.20	1.87	1.35	1.01	ECO-S1EP332BA
	4700	0.113	2.39	22	25	P7604-ND◆	2.39	2.03	1.46	1.10	ECO-S1EP472BA
	5600	0.095	2.86	22	25	P7605-ND◆	2.51	2.12	1.53	1.15	ECO-S1EP562BA
	6800	0.078	3.47	25	25	P6883-ND◆	3.78	3.03	2.08	1.36	ECO-S1EP682CA
	8200	0.065	3.57	25	25	P6885-ND◆	3.52	2.89	2.02	1.41	ECO-S1EP822CA
	10000	0.058	3.78	22	35	P6886-ND◆	3.71	3.05	2.14	1.49	ECO-S1EP103BA
	10000	0.058	3.78	30	25	P6887-ND◆	4.06	3.33	2.34	1.63	ECO-S1EP103DA
	12000	0.048	4.10	22	40	P6888-ND◆	4.04	3.31	2.32	1.62	ECO-S1EP123BA
	12000	0.048	4.10	30	30	P6889-ND◆	4.38	3.60	2.52	1.76	ECO-S1EP123DA
	15000	0.039	4.63	22	50	P6890-ND◆	4.47	3.67	2.57	1.79	ECO-S1EP153BA
	15000	0.039	4.63	30	30	P6891-ND◆	4.85	3.98	2.79	1.94	ECO-S1EP153DA
	18000	0.035	5.47	25	45	P6892-ND◆	5.09	4.18	2.93	2.04	ECO-S1EP183CA
	18000	0.035	5.47	30	35	P6893-ND◆	5.33	4.38	3.06	2.14	ECO-S1EP183DA
	22000	0.029	6.10	25	50	P6894-ND◆	5.61	4.61	3.23	2.25	ECO-S1EP223CA
	27000	0.023	6.21	30	45	P6896-ND◆	5.82	4.93	3.55	2.66	ECO-S1EP273DA
	27000	0.025	6.21	35	35	P6897-ND◆	6.11	5.17	3.72	2.79	ECO-S1EP273EA
	33000	0.020	6.84	30	50	P6898-ND◆	6.49	5.50	3.96	2.97	ECO-S1EP333DA
	33000	0.020	6.84	35	40	P6899-ND	7.04	5.96	4.29	3.22	ECO-S1EP333EA
	39000	0.019	7.36	35	45	P6900-ND◆	7.03	6.06	4.44	3.49	ECO-S1EP393EA
	47000	0.017	8.00	35	50	P6901-ND◆	7.90	6.81	4.99	3.93	ECO-S1EP473EA
35	2200	0.166	1.52	22	25	P7606-ND◆	2.22	1.88	1.35	1.02	ECO-S1VP222BA
	3300	0.111	2.29	22	25	P7607-ND◆	2.42	2.05	1.48	1.11	ECO-S1VP332BA
	3900	0.094	2.71	22	25	P7608-ND◆	2.54	2.16	1.55	1.17	ECO-S1VP392BA
	4700	0.078	3.26	25	25	P6905-ND◆	3.85	3.09	2.11	1.38	ECO-S1VP472CA
	5600	0.080	3.36	25	25	P6907-ND	4.03	3.23	2.21	1.44	ECO-S1VP562CA
	6800	0.066	3.68	22	35	P6908-ND◆	3.71	3.04	2.13	1.49	ECO-S1VP682BA
	6800	0.066	3.68	25	30	P6909-ND◆	3.85	3.16	2.21	1.54	ECO-S1VP682CA
	8200	0.057	4.00	22	40	P6910-ND◆	4.03	3.31	2.32	1.62	ECO-S1VP822BA
	8200	0.057	4.00	25	35	P6911-ND◆	4.18	3.43	2.40	1.68	ECO-S1VP822CA
	10000	0.050	4.42	22	45	P6913-ND◆	4.48	3.67	2.57	1.79	ECO-S1VP103BA
	10000	0.050	4.42	35	25	P6914-ND◆	5.33	4.37	3.06	2.13	ECO-S1VP103EA
	12000	0.044	5.05	25	45	P6915-ND◆	5.15	4.22	2.96	2.06	ECO-S1VP123CA
	12000	0.044	5.05	35	30	P6916-ND◆	5.79	4.75	3.33	2.32	ECO-S1VP123EA
	15000	0.036	5.57	25	50	P6917-ND◆	5.60	4.59	3.22	2.24	ECO-S1VP153CA
	15000	0.036	5.57	35	30	P6918-ND◆	5.55	4.70	3.38	2.54	ECO-S1VP153EA
	18000	0.030	5.68	30	45	P6919-ND	5.90	5.00	3.60	2.70	ECO-S1VP183DA
	18000	0.030	5.68	35	35	P6920-ND◆	6.19	5.24	3.77	2.83	ECO-S1VP183EA
	22000	0.026	6.10	30	50	P6921-ND◆	6.39	5.41	3.90	2.92	ECO-S1VP223DA
	22000	0.026	6.10	35	40	P6922-ND◆	6.93	5.87	4.22	3.17	ECO-S1VP223EA
	27000	0.021	6.84	35	45	P6923-ND◆	7.09	6.12	4.48	3.53	ECO-S1VP273EA
	33000	0.018	7.15	35	50	P6924-ND◆	8.05	6.94	5.09	4.00	ECO-S1VP333EA
50	1500	0.221	1.24	22	25	P7609-ND◆	2.28	1.93	1.39	1.05	ECO-S1HP152BA
	2200	0.151	1.82	22	25	P7610-ND◆	2.45	2.08	1.50	1.12	ECO-S1HP222BA
	2700	0.123	2.23	22	25	P7611-ND◆	2.62	2.22	1.60	1.20	ECO-S1HP272BA
	3300	0.100	2.73	25	25	P6928-ND◆	3.48	2.85	2.00	1.39	ECO-S1HP332CA
	3900	0.085	2.75	25	25	P6930-ND◆	3.68	3.02	2.12	1.48	ECO-S1HP392CA
	4700	0.071	3.03	22	35	P6931-ND◆	3.90	3.20	2.24	1.56	ECO-S1HP472BA
	4700	0.071	3.03	30	25	P6932-ND◆	4.28	3.51	2.46	1.71	ECO-S1HP472DA
50	5600	0.059	3.42	22	40	P6933-ND◆	4.24	3.48	2.44	1.70	ECO-S1HP562BA
	5600	0.059	3.42	30	30	P6934-ND◆	4.63	3.80	2.66	1.85	ECO-S1HP562DA
	6800	0.049	3.85	22	50	P6935-ND◆	4.70	3.86	2.70	1.88	ECO-S1HP682BA
	6800	0.049	3.85	30	30	P6936-ND◆	5.07	4.16	2.92	2.03	ECO-S1HP682DA
	8200	0.040	4.41	25	45	P6937-ND◆	5.37	4.41	3.09	2.15	ECO-S1HP822CA
	8200	0.040	4.41	30	35	P6938-ND◆	5.62	4.61	3.23	2.25	ECO-S1HP822DA
	10000	0.036	4.97	25	50	P6939-ND◆	5.01	4.25	3.06	2.29	ECO-S1HP103CA
	10000	0.036	4.97	35	30	P6940-ND◆	5.71	4.83	3.48	2.61	ECO-S1HP103EA
	12000	0.032	5.58	30	45	P6941-ND◆	6.10	5.16	3.72	2.79	ECO-S1HP123DA
	12000	0.032	5.58	35	35	P6942-ND◆	6.38	5.40	3.89	2.92	ECO-S1HP123EA
	15000	0.028	6.44	30	50	P6943-ND◆	6.51	5.51	3.97	2.98	ECO-S1HP153DA
	15000	0.028	6.44	35	40	P6944-ND◆	7.41	6.27	4.52	3.39	ECO-S1HP153EA
	18000	0.023	6.94	35	45	P6945-ND◆	7.51	6.48	4.75	3.73	ECO-S1HP183EA
	22000	0.021	7.57	35	50	P6946-ND◆	8.21	7.08	5.19	4.08	ECO-S1HP223EA
80	680	0.390	1.02	22	25	P7357-ND◆	2.24	1.90	1.37	1.03	ECO-S1KP681BA
	1000	0.265	1.51	22	25	P7358-ND◆	2.46	2.09	1.50	1.13	ECO-S1KP102BA
	1200	0.221	1.81	22	25	P7359-ND◆	2.55	2.16	1.56	1.17	ECO-S1KP122BA
	1500	0.177	2.26	22	30	P7360-ND◆	2.82	2.39	1.72	1.29	ECO-S1KP152BA
	1500	0.177	2.26	25	25	P7361-ND◆	2.90	2.46	1.77	1.33	ECO-S1KP152CA
	1800	0.147	2.52	22	35	P7362-ND	3.04	2.58	1.86	1.39	ECO-S1KP182BA
	1800	0.147	2.52	25	30	P7363-ND◆	3.10	2.63	1.89	1.42	ECO-S1KP182CA
	2200	0.121	2.73	22	40	P7364-ND◆	3.31	2.81	2.02	1.52	ECO-S1KP222BA
	2200	0.121	2.73	30	25	P7365-ND◆	3.60	3.05	2.20	1.65	ECO-S1KP222DA
	2700	0.098	2.78	22	45	P7366-ND	3.68	3.12	2.25	1.69	ECO-S1KP272BA
	2700	0.098	2.78	30	30	P7367-ND	3.94	3.34	2.40	1.80	ECO-S1KP272DA
	3300	0.085	3.21	22	50	P7368-ND◆	3.95	3.34	2.41	1.81	ECO-S1KP332BA
	3300	0.085	3.21	30	30	P7369-ND	4.27	3.62	2.61	1.96	ECO-S1KP332DA
	3900	0.077	3.59	25	45	P7370-ND◆	4.47	3.79	2.73	2.05	ECO-S1KP392CA
	3900	0.077	3.59	30	35	P7371-ND◆	4.76	4.04	2.91	2.18	ECO-S1KP392DA
	4700	0.063	4.09	25	50	P7372-ND◆	4.88	4.13	2.98	2.23	ECO-S1KP472CA
	4700	0.063	4.09	30	40	P7373-ND◆	5.21	4.41	3.18	2.38	ECO-S1KP472DA
	5600	0.056	4.55	30	45	P7374-ND◆	5.85	4.95	3.57	2.68	ECO-S1KP562DA
	5600	0.056	4.55	35	35	P7375-ND◆	6.14	5.20	3.75	2.81	ECO-S1KP562EA
	6800	0.046	5.16	30	50	P7376-ND◆	6.48	5.49	3.95	2.96	ECO-S1KP682DA
	6800	0.046	5.16	35	40	P7377-ND◆	7.06	5.98	4.31	3.23	ECO-S1KP682EA
	8200	0.038	5.83	35	50	P7378-ND◆	7.97	6.75	4.86	3.65	ECO-S1KP822EA
100	470	0.459	1.11	22	25	P7379-ND◆	2.31	1.96	1.41	1.06	ECO-S2AP471BA
	560	0.385	1.32	22	25	P7380-ND	2.41	2.05	1.48	1.11	ECO-S2AP561BA
	680	0.317	1.61	22	25	P7381-ND◆	2.56	2.17	1.56	1.17	ECO-S2AP681BA
	1000	0.216	1.96	25	25	P6948-ND◆	3.50	2.88	2.01	1.40	ECO-S2AP102CA
	1200	0.180	2.31	20	40	P6949-ND	4.71	3.87	2.71	1.89	ECO-S2AP122AA
	1200	0.180	2.31	25	30	P6990-ND	3.73	3.06	2.15	1.50	ECO-S2AP122CA
	1500	0.155	2.57	22	40	P6991-ND◆	4.05	3.32	2.33	1.62	ECO-S2AP152BA
	1500	0.155	2.57	30	25	P6992-ND◆	4.35	3.57	2.50	1.74	ECO-S2AP152DA
	1800	0.129	2.84	22	45	P6993-ND	4.47	3.67	2.57	1.79	ECO-S2AP182BA
	1800	0.138	2.84	30	30	P6101-ND	4.71	3.87	2.71	1.89	ECO-S2AP182DA
	2200	0.121	3.14	22	50	P6102-ND◆	4.89	4.01	2.81	1.96	ECO-S2AP222BA
	2200	0.121	3.14	30	30	P6103-ND	4.45	3.77	2.71	2.04	ECO-S2AP222DA
	2700	0.104	3.71	25	45	P6104-ND◆	4.91	4.16	3.00	2.25	ECO-S2AP272CA
	2700	0.104	3.71	30	35	P6105-ND	5.00	4.24	3.05	2.29	ECO-S2AP272DA
	3300	0.090	4.06	25	50	P6106-ND◆	5.44	4.61	3.32	2.49	ECO-S2AP332CA
	3300	0.090	4.06	30	40	P6107-ND◆	5.73	4.85	3.49	2.62	ECO-S2AP332DA
	3900	0.077	4.54	30	45	P6108-ND◆	6.36	5.39	3.88	2.91	ECO-S2AP392DA
	3900	0.081	4.54	35	35	P6109-ND◆	6.74	5.70	4.11	3.08	ECO-S2AP392EA
	4700	0.071	5.13	30	50	P6110-ND◆	6.44	5.56	4.07	3.20	ECO-S2AP472DA
	4700	0.071	5.13	35	40	P6111-ND	6.99	6.03	4.42	3.48	ECO-S2AP472EA
	5600	0.059	5.75	35	45	P6112-ND◆	7.83	6.76	4.95	3.89	ECO-S2AP562EA
	6800	0.049	6.60	35	50	P6113-ND◆	7.92	6.98	5.22	4.33	ECO-S2AP682EA
200	150	1.216	0.71	22	25	P7382-ND◆	2.19	1.86	1.34	1.01	ECO-S2DP151BA
	220	0.829	1.04	22	25	P7383-ND◆	2.37	2.01	1.45	1.09	ECO-S2DP221BA
	270	0.614	1.41	22	25	P6115-ND◆	3.39	2.72	1.86	1.22	ECO-S2DP271BA
	330	—	1.56	25	25	P6117-ND◆	3.25	2.67	1.87	1.30	ECO-S2DP331CA
	390	0.468	1.68	22	30	P6118-ND◆	3.31	2.72	1.91	1.33	ECO-S2DP391BA
	390	0.468	1.68	25	25	P6119-ND◆	3.44	2.82	1.98	1.38	ECO-S2DP391CA
	470	0.388	1.85	22	35	P6120-ND	3.59	2.95	2.07	1.44	ECO-S2DP471BA
	470	—	1.85	30	25	P6121-ND	4.11	3.37	2.36	1.65	ECO-S2DP471DA
	560	0.326	2.43	22	40	P6122-ND◆	3.77	3.10	2.17	1.51	ECO-S2DP561BA
	560	0.326	2.43	30	25	P6123-ND	4.43	3.63	2.55	1.77	ECO-S2DP561DA
	680	0.268	2.68	22	45	P6124-ND◆	4.13	3.39	2.37	1.65	ECO-S2DP681BA
	680	0.268	2.68	30	30	P6125-ND◆	4.79	3.93	2.75	1.92	ECO-S2DP681DA
	820	0.222	2.93	25	45	P6126-ND	4.69	3.85	2.70	1.88	ECO-S2DP821CA
	820	0.222	2.93	35	25	P6127-ND◆	5.66	4.64	3.25	2.27	ECO-S2DP821EA
	1000	0.199	3.25	25	45	P7384-ND◆	4.35	3.68	2.65	1.99	ECO-S2DP102CX
	1000	0.199	3.25	25	50	P6128-ND◆	4.52	3.83	2.76	2.07	ECO-S2DP102CA
	1000	0.199	3.25	35	30	P6129-ND◆	5.37	4.55	3.27	2.46	ECO-S2DP102EA

◆ ***RoHS Compliant***

(Continued)

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm) D	Dim. (mm) L	Digi-Key Part No.	Price Each 1	10	50	200	Panasonic Part No.
200	1200	0.166	3.50	30	40	P7385-ND◆	5.44	4.60	3.31	2.49	ECO-S2DP122DX
	1200	0.166	3.50	30	45	P6130-ND	5.58	4.73	3.40	2.55	ECO-S2DP122DA
	1200	0.166	3.50	35	30	P7386-ND◆	5.82	4.93	3.55	2.66	ECO-S2DP122EX
	1200	0.166	3.50	35	35	P6131-ND◆	5.97	5.06	3.64	2.73	ECO-S2DP122EA
	1500	0.144	3.87	30	45	P7387-ND	6.30	5.33	3.84	2.88	ECO-S2DP152DX
	1500	0.144	3.87	30	50	P6132-ND◆	6.55	5.54	3.99	2.99	ECO-S2DP152DA
	1500	0.144	3.87	35	35	P7388-ND◆	6.68	5.65	4.07	3.05	ECO-S2DP152EX
	1500	0.144	3.87	35	40	P6133-ND◆	6.93	5.87	4.22	3.17	ECO-S2DP152EA
	1800	0.120	4.32	35	40	P7389-ND◆	7.60	6.43	4.63	3.47	ECO-S2DP182EX
	1800	0.120	4.32	35	45	P6134-ND◆	6.94	5.98	4.38	3.45	ECO-S2DP182EA
	2200	0.098	4.92	35	45	P7390-ND	8.60	7.28	5.24	3.93	ECO-S2DP222EX
	2200	0.098	4.92	35	50	P6135-ND◆	7.97	6.87	5.04	3.96	ECO-S2DP222EA
250	120	1.520	0.71	22	25	P7391-ND	2.34	1.99	1.43	1.08	ECO-S2EP121BA
	150	1.216	0.89	22	25	P7392-ND◆	2.47	2.09	1.51	1.13	ECO-S2EP151BA
	180	0.921	1.07	22	25	P7394-ND◆	2.62	2.22	1.60	1.20	ECO-S2EP181BA
	220	0.754	1.17	22	25	P7395-ND◆	2.76	2.34	1.69	1.27	ECO-S2EP221BX
	270	0.614	1.31	22	30	P7396-ND◆	2.97	2.52	1.82	1.36	ECO-S2EP271BA
	270	0.614	1.31	25	25	P7397-ND	3.09	2.62	1.89	1.42	ECO-S2EP271CA
	330	0.553	1.75	22	35	P7398-ND◆	3.27	2.77	2.00	1.50	ECO-S2EP331BA
	330	0.502	1.75	25	30	P7399-ND◆	3.34	2.83	2.04	1.53	ECO-S2EP331CA
	390	0.468	1.91	22	40	P7400-ND◆	3.49	2.96	2.13	1.60	ECO-S2EP391BA
	390	0.425	1.91	30	25	P7401-ND◆	3.80	3.22	2.32	1.74	ECO-S2EP391DA
	470	0.388	2.11	22	45	P7402-ND◆	3.85	3.26	2.35	1.76	ECO-S2EP471BA
	470	0.353	2.11	30	25	P7403-ND◆	4.16	3.52	2.54	1.90	ECO-S2EP471DX
	560	0.326	2.25	25	40	P7404-ND◆	4.33	3.67	2.64	1.98	ECO-S2EP561CX
	560	0.326	2.25	35	25	P7405-ND◆	4.91	4.16	3.00	2.25	ECO-S2EP561EA
	680	0.268	2.50	25	45	P7406-ND◆	4.80	4.06	2.93	2.20	ECO-S2EP681CX
	680	0.268	2.50	35	30	P7407-ND◆	5.43	4.60	3.31	2.49	ECO-S2EP681EA
	820	0.222	2.50	30	40	P7408-ND◆	5.67	4.80	3.46	2.60	ECO-S2EP821DX
	820	0.222	2.77	35	30	P7409-ND◆	6.05	5.12	3.69	2.77	ECO-S2EP821EX
	1000	0.182	3.32	30	45	P7410-ND◆	6.45	5.46	3.93	2.95	ECO-S2EP102DX
	1000	0.199	3.32	35	35	P7411-ND◆	6.85	5.80	4.18	3.13	ECO-S2EP102EX
	1200	0.166	3.53	35	40	P7412-ND◆	7.80	6.60	4.75	3.57	ECO-S2EP122EX
	1500	0.133	4.04	35	50	P7413-ND◆	9.05	7.66	5.51	4.14	ECO-S2EP152EA
400	47	3.527	0.47	22	25	P7414-ND◆	2.64	2.24	1.61	1.21	ECO-S2GP470BA
	68	—	0.76	20	30	P6136-ND	3.95	3.24	2.27	1.58	ECO-S2GP680AA
	68	2.438	0.69	22	25	P6137-ND◆	3.58	2.87	1.97	1.28	ECO-S2GP680BA
	82	2.022	0.83	22	25	P6139-ND	3.30	2.71	1.90	1.32	ECO-S2GP820BA
	100	1.658	0.92	25	25	P6141-ND◆	3.60	2.96	2.07	1.44	ECO-S2GP101CA
	120	1.382	1.02	25	25	P7415-ND◆	3.30	2.79	2.01	1.51	ECO-S2GP121CX
	120	—	1.02	25	30	P6143-ND◆	3.84	3.15	2.21	1.54	ECO-S2GP121CA
	150	1.105	1.16	22	40	P6144-ND	4.22	3.47	2.43	1.69	ECO-S2GP151BA
	150	1.105	1.16	30	25	P6145-ND◆	4.51	3.70	2.59	1.81	ECO-S2GP151DA
	180	0.921	1.44	22	45	P6146-ND	4.63	3.80	2.66	1.86	ECO-S2GP181BA
	180	—	1.44	30	30	P6147-ND◆	4.90	4.02	2.82	1.96	ECO-S2GP181DA
	220	0.754	1.49	22	50	P6148-ND◆	5.23	4.29	3.01	2.09	ECO-S2GP221BA
	220	0.754	1.49	30	30	P6149-ND◆	5.43	4.46	3.12	2.18	ECO-S2GP221DA
	270	0.675	1.67	25	45	P6150-ND◆	5.02	4.25	3.06	2.30	ECO-S2GP271CA
	270	0.675	1.67	35	30	P6151-ND	5.58	4.72	3.40	2.55	ECO-S2GP271EA
	330	0.553	1.90	30	40	P6152-ND◆	5.93	5.03	3.62	2.72	ECO-S2GP331DA
	330	0.553	1.90	35	30	P7416-ND◆	6.25	5.29	3.81	2.86	ECO-S2GP331EX
	330	0.553	1.90	35	35	P6153-ND◆	6.25	5.30	3.81	2.86	ECO-S2GP331EA
	390	0.468	2.13	30	45	P6154-ND◆	6.57	5.57	4.01	3.01	ECO-S2GP391DA
	390	0.468	2.13	35	35	P7417-ND◆	6.95	5.88	4.23	3.18	ECO-S2GP391EX
	390	0.468	2.13	35	40	P6155-ND◆	7.07	5.99	4.31	3.23	ECO-S2GP391EA
	470	0.388	2.39	35	40	P7418-ND◆	7.98	6.75	4.86	3.65	ECE-S2GP471EX
	470	0.388	2.39	35	45	P6156-ND◆	7.09	6.12	4.48	3.53	ECO-S2GP471EA
	560	0.326	2.69	35	45	P7419-ND◆	8.88	7.52	5.41	4.06	ECO-S2GP561EX
	560	0.326	2.69	35	50	P6157-ND◆	8.23	7.10	5.20	4.09	ECO-S2GP561EA
	680	0.268	3.00	35	50	P7420-ND◆	10.60	8.97	6.46	4.85	ECO-S2GP681EX
450	33	6.028	0.41	22	25	P7421-ND◆	2.42	2.05	1.48	1.11	ECO-S2WP330BA
	47	4.233	0.59	22	25	P7422-ND◆	2.64	2.24	1.61	1.21	ECO-S2WP470BA
	56	2.960	0.70	20	30	P7423-ND	3.51	2.98	2.14	1.61	ECO-S2WP560AA
	56	2.960	0.70	22	25	P7424-ND◆	2.79	2.36	1.70	1.28	ECO-S2WP560BA
	82	2.022	0.83	22	30	P7425-ND◆	3.25	2.75	1.98	1.49	ECO-S2WP820BA
	82	2.022	0.83	25	25	P7426-ND◆	3.27	2.77	2.00	1.50	ECO-S2WP820CA
	100	1.658	0.93	22	35	P7427-ND◆	3.59	3.04	2.19	1.64	ECO-S2WP101BA
	120	1.382	1.04	22	40	P7428-ND◆	3.92	3.32	2.39	1.79	ECO-S2WP121BA
	120	1.382	1.04	30	25	P7429-ND◆	4.16	3.52	2.54	1.90	ECO-S2WP121DA
	150	1.105	1.19	22	50	P7430-ND◆	4.38	3.71	2.67	2.01	ECO-S2WP151BA
	150	1.105	1.19	30	30	P7431-ND	4.55	3.85	2.78	2.08	ECO-S2WP151DA
	180	0.921	1.35	25	40	P7432-ND◆	4.90	4.15	2.99	2.24	ECO-S2WP181CX
	180	0.921	1.35	35	25	P7433-ND◆	5.57	4.72	3.40	2.55	ECO-S2WP181EA
	220	0.754	1.55	25	45	P7434-ND◆	5.55	4.70	3.39	2.54	ECO-S2WP221CX
	220	0.754	1.55	35	30	P7435-ND◆	6.05	5.13	3.69	2.77	ECO-S2WP221EA
	270	0.675	1.78	30	45	P7436-ND	6.50	5.50	3.96	2.97	ECO-S2WP271DA
	270	0.614	1.78	35	30	P7437-ND◆	6.93	5.87	4.22	3.17	ECO-S2WP271EX
	330	0.553	2.01	30	50	P7438-ND◆	7.58	6.41	4.62	3.46	ECO-S2WP331DA
	330	0.553	2.01	35	35	P7439-ND◆	8.13	6.88	4.96	3.72	ECE-S2WP331EX
	390	0.510	2.24	35	45	P7440-ND◆	8.79	7.44	5.36	4.02	ECO-S2WP391EA
	470	0.423	2.53	35	45	P7441-ND◆	10.48	8.87	6.39	4.79	ECO-S2WP471EX
500	47	3.527	0.63	22	25	P7442-ND◆	3.32	2.81	2.02	1.52	ECO-S2HP470BA
	56	2.960	0.70	22	30	P7443-ND◆	3.51	2.98	2.14	1.61	ECO-S2HP560BA
	68	2.438	0.78	22	35	P7444-ND◆	3.87	3.28	2.36	1.77	ECO-S2HP680BA
	68	2.438	0.78	25	25	P7445-ND◆	3.91	3.32	2.39	1.79	ECO-S2HP680CA
	82	2.022	0.88	22	40	P7446-ND	4.21	3.57	2.57	1.93	ECO-S2HP820BA
	82	2.022	0.88	25	30	P7447-ND◆	4.22	3.58	2.58	1.93	ECO-S2HP820CA
	100	1.658	0.99	22	45	P7448-ND◆	4.66	3.95	2.85	2.14	ECO-S2HP101BA
	100	1.658	0.99	25	35	P7449-ND◆	4.68	3.97	2.86	2.14	ECO-S2HP101CA
	120	1.382	1.13	22	50	P7450-ND◆	5.23	4.43	3.19	2.39	ECO-S2HP121BA
	120	1.382	1.13	30	30	P7451-ND	5.39	4.57	3.29	2.47	ECO-S2HP121DA
	150	1.105	1.29	25	45	P7452-ND◆	5.96	5.05	3.63	2.73	ECO-S2HP151CA
	150	1.105	1.20	35	25	P7453-ND◆	6.60	5.59	4.02	3.02	ECO-S2HP151EA
	180	0.921	1.38	25	50	P7454-ND	6.81	5.76	4.15	3.11	ECO-S2HP181CA
	180	0.921	1.36	35	30	P7455-ND◆	7.28	6.16	4.44	3.33	ECO-S2HP181EA
	220	0.754	1.50	30	45	P7456-ND◆	7.91	6.70	4.82	3.62	ECO-S2HP221DA
	220	0.754	1.54	35	35	P7457-ND◆	8.28	7.01	5.05	3.79	ECO-S2HP221EA
	270	0.614	1.76	35	40	P7458-ND◆	9.57	8.10	5.83	4.38	ECO-S2HP271EA
	330	0.502	1.99	35	45	P7459-ND◆	11.06	9.36	6.74	5.06	ECO-S2HP331EA
	390	0.425	2.22	35	50	P7460-ND◆	12.75	10.79	7.77	5.83	ECO-S2HP391EA

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm) D	Dim. (mm) L	Digi-Key Part No.	Price Each 1	10	50	200	Panasonic Part No.
TSUQ Highly Miniaturized Version 85°C, 2000 Hour Life, 4.0mm Pins — RoHS Compliant											
160	560	0.355	2.25	22	25	P13765-ND	3.17	2.54	2.09	1.36	EET-UQ2C561HA
	680	0.293	2.50	22	30	P13766-ND	3.42	2.74	2.25	1.47	EET-UQ2C681HA
	820	0.243	2.75	22	35	P13767-ND	3.24	2.66	2.23	1.56	EET-UQ2C821HA
	1000	0.199	3.00	22	40	P13768-ND	3.54	2.91	2.44	1.70	EET-UQ2C102HA
	1000	0.199	3.00	25	30	P13769-ND	3.60	2.95	2.48	1.73	EET-UQ2C102JA
	1200	0.166	3.25	22	45	P13770-ND	3.91	3.21	2.70	1.88	EET-UQ2C122HA
	1200	0.166	3.25	25	35	P13771-ND	3.94	3.23	2.72	1.89	EET-UQ2C122JA
	1200	0.166	3.25	30	25	P13772-ND	4.65	3.82	3.21	2.23	EET-UQ2C122KA
	1500	0.133	3.73	22	50	P13773-ND	4.47	3.67	3.08	2.15	EET-UQ2C152HA
	1500	0.133	3.73	25	40	P13774-ND	4.77	3.91	3.29	2.29	EET-UQ2C152JA
	1500	0.133	3.73	30	30	P13775-ND	5.15	4.23	3.55	2.47	EET-UQ2C152KA
	1500	0.133	3.73	35	25	P13776-ND	5.52	4.53	3.81	2.65	EET-UQ2C152LA
	1800	0.111	4.20	25	45	P13777-ND	4.99	4.09	3.44	2.40	EET-UQ2C182JA
	1800	0.120	4.20	30	35	P13778-ND	5.67	4.66	3.91	2.73	EET-UQ2C182KA
	1800	0.111	4.20	35	30	P13779-ND	6.04	4.96	4.16	2.90	EET-UQ2C182LA
	2200	0.090	4.78	30	40	P13780-ND	5.43	4.60	3.98	2.98	EET-UQ2C222KA
	2200	0.098	4.78	35	35	P13781-ND	5.78	4.90	4.23	3.18	EET-UQ2C222LA
	2700	0.074	5.45	30	45	P13782-ND	6.17	5.23	4.52	3.39	EET-UQ2C272KA
	2700	0.080	5.45	35	40	P13783-ND	6.57	5.56	4.80	3.60	EET-UQ2C272LA
	3300	0.070	5.75	35	45	P13784-ND	7.53	6.38	5.51	4.13	EET-UQ2C332LA
	3900	0.055	6.00	35	50	P13785-ND	8.54	7.23	6.25	4.69	EET-UQ2C392LA
200	390	0.510	1.68	22	25	P13786-ND	3.09	2.48	2.04	1.33	EET-UQ2D391HA
	470	0.423	1.85	22	30	P13787-ND	3.33	2.67	2.20	1.43	EET-UQ2D471HA
	560	0.355	2.43	22	30	P13788-ND	3.10	2.55	2.14	1.49	EET-UQ2D561HA
	560	0.355	2.43	25	25	P13789-ND	3.16	2.60	2.18	1.52	EET-UQ2D561JA
	680	0.293	2.68	22	35	P13790-ND	3.39	2.79	2.34	1.63	EET-UQ2D681HA
	680	0.293	2.68	25	30	P13791-ND	3.44	2.83	2.37	1.65	EET-UQ2D681JA
	820	0.243	2.93	22	40	P13792-ND	3.72	3.06	2.57	1.79	EET-UQ2D821HA
	820	0.243	2.93	25	30	P13793-ND	3.74	3.07	2.58	1.80	EET-UQ2D821JA
	820	0.243	2.93	30	25	P13794-ND	4.47	3.67	3.08	2.15	EET-UQ2D821KA
	1000	0.199	3.25	22	45	P13795-ND	4.12	3.38	2.84	1.98	EET-UQ2D102HA
	1000	0.199	3.25	25	35	P13796-ND	4.15	3.41	2.86	1.99	EET-UQ2D102JA
	1000	0.199	3.25	30	30	P13797-ND	4.65	3.82	3.21	2.23	EET-UQ2D102KA
	1000	0.232	3.25	35	25	P13798-ND	5.21	4.28	3.59	2.50	EET-UQ2D102LA
	1200	0.166	3.50	22	50	P13799-ND	4.61	3.79	3.18	2.22	EET-UQ2D122HA
	1200	0.166	3.50	25	40	P13800-ND	4.63	3.80	3.19	2.22	EET-UQ2D122JA
	1200	0.166	3.50	30	30	P13801-ND	5.31	4.35	3.66	2.55	EET-UQ2D122KA
	1500	0.133	3.87	25	50	P13802-ND	5.38	4.42	3.71	2.59	EET-UQ2D152JA
	1500	0.144	3.87	30	35	P13803-ND	6.01	4.93	4.14	2.88	EET-UQ2D152KA
	1500	0.144	3.87	35	30	P13804-ND	5.48	4.64	4.01	3.01	EET-UQ2D152LA
	1800	0.120	4.32	30	45	P13805-ND	5.72	4.84	4.18	3.14	EET-UQ2D182KA
	1800	0.120	4.32	35	35	P13806-ND	6.13	5.19	4.48	3.36	EET-UQ2D182LA
	2200	0.098	4.92	30	50	P13807-ND	6.59	5.58	4.82	3.62	EET-UQ2D222KA
	2200	0.105	4.92	35	40	P13808-ND	7.01	5.94	5.13	3.85	EET-UQ2D222LA
	2700	0.086	5.45	35	50	P13809-ND	8.10	6.86	5.92	4.44	EET-UQ2D272LA
250	270	0.737	1.31	22	25	P13810-ND	3.16	2.53	2.08	1.36	EET-UQ2E271HA
	330	0.603	1.75	22	30	P13811-ND	3.42	2.74	2.25	1.47	EET-UQ2E331HA
	390	0.510	1.91	22	30	P13812-ND	3.18	2.62	2.20	1.53	EET-UQ2E391HA
	390	0.510	1.91	25	25	P13813-ND	3.24	2.66	2.24	1.56	EET-UQ2E391JA
	470	0.423	2.11	22	35	P13814-ND	3.48	2.85	2.40	1.67	EET-UQ2E471HA
	470	0.423	2.11	25	30	P13815-ND	3.52	2.89	2.43	1.69	EET-UQ2E471JA
	560	0.355	2.25	22	40	P13816-ND	3.80	3.12	2.62	1.83	EET-UQ2E561HA
	560	0.355	2.25	25	30	P13817-ND	3.86	3.17	2.66	1.85	EET-UQ2E561JA
	560	0.355	2.25	30	25	P13818-ND	4.35	3.57	3.00	2.09	EET-UQ2E561KA
	680	0.293	2.50	22	45	P13819-ND	4.23	3.47	2.91	2.03	EET-UQ2E681HA
	680	0.293	2.50	25	35	P13820-ND	4.27	3.50	2.94	2.05	EET-UQ2E681JA
	680	0.293	2.30	30	25	P13821-ND	5.50	4.51	3.79	2.64	EET-UQ2E681KF
	680	0.293	2.50	30	30	P13822-ND	4.95	4.06	3.41	2.38	EET-UQ2E681KA
	820	0.243	2.77	22	50	P13823-ND	4.78	3.92	3.29	2.30	EET-UQ2E821HA
	820	0.243	2.77	25	40	P13824-ND	4.77	3.91	3.29	2.29	EET-UQ2E821JA
	820	0.243	2.77	30	30	P13825-ND	5.25	4.31	3.62	2.52	EET-UQ2E821KA
	820	0.243	2.77	35	25	P13826-ND	5.83	4.78	4.02	2.80	EET-UQ2E821LA
	1000	0.199	3.32	25	45	P13827-ND	5.41	4.44	3.73	2.60	EET-UQ2E102JA
	1000	0.199	3.32	30	35	P13828-ND	5.87	4.82	4.05	2.82	EET-UQ2E102KA
	1000	0.199	3.32	35	30	P13829-ND	5.51	4.67	4.03	3.03	EET-UQ2E102LA
	1200	0.166	3.53	30	40	P13830-ND	5.79	4.90	4.23	3.18	EET-UQ2E122KA
	1200	0.166	3.53	35	35	P13831-ND	6.18	5.23	4.52	3.39	EET-UQ2E122LA
	1500	0.133	4.04	30	50	P13832-ND	6.79	5.75	4.96	3.72	EET-UQ2E152KA
	1500	0.133	4.04	35	40	P13833-ND	7.10	6.01	5.19	3.90	EET-UQ2E152LA
	1800	0.111	4.55	35	45	P13834-ND	8.07	6.83	5.90	4.43	EET-UQ2E182LA
	2200	0.098	4.75	35	50	P13835-ND	8.40	7.24	6.37	5.01	EET-UQ2E222LA
350	150	1.326	1.12	22	25	P13836-ND	3.11	2.55	2.15	1.50	EET-UQ2V151HA
	180	1.105	1.22	22	30	P13837-ND	3.32	2.72	2.29	1.60	EET-UQ2V181HA
	220	0.904	1.44	22	35	P13838-ND	3.68	3.02	2.54	1.77	EET-UQ2V221HA
	270	0.737	1.66	22	40	P13839-ND	4.10	3.37	2.83	1.97	EET-UQ2V271HA
	270	0.737	1.66	25	30	P13840-ND	4.21	3.45	2.90	2.02	EET-UQ2V271JA
	330	0.603	1.88	22	45	P13841-ND	4.59	3.77	3.17	2.21	EET-UQ2V331HA
	330	0.603	1.88	25	35	P13842-ND	4.71	3.86	3.24	2.26	EET-UQ2V331JA
	390	0.510	2.06	22	50	P13843-ND	5.27	4.32	3.63	2.53	EET-UQ2V391HA
	390	0.510	2.06	25	40	P13844-ND	5.25	4.30	3.62	2.52	EET-UQ2V391JA
	390	0.510	2.06	30	30	P13845-ND	5.85	4.80	4.03	2.81	EET-UQ2V391KA
	390	0.510	2.06	35	25	P13846-ND	5.33	4.52	3.90	2.93	EET-UQ2V391LA
	470	0.423	2.40	25	45	P13847-ND	5.91	4.85	4.08	2.84	EET-UQ2V471JA
	470	0.423	2.40	30	35	P13848-ND	5.54	4.69	4.06	3.04	EET-UQ2V471KA
	470	0.423	2.40	35	30	P13849-ND	5.79	4.90	4.23	3.18	EET-UQ2V471LA
	560	0.355	2.60	25	50	P13850-ND	5.78	4.90	4.23	3.17	EET-UQ2V561JA
	560	0.355	2.60	30	40	P13851-ND	6.21	5.26	4.54	3.41	EET-UQ2V561KA
	560	0.355	2.60	35	30	P13852-ND	6.55	5.55	4.79	3.60	EET-UQ2V561LA
	680	0.293	2.96	30	45	P13853-ND	7.08	6.00	5.18	3.89	EET-UQ2V681KA
	680	0.293	2.96	35	35	P13854-ND	7.46	6.31	5.45	4.09	EET-UQ2V681LA
	820	0.243	3.25	30	50	P13855-ND	8.31	7.03	6.08	4.56	EET-UQ2V821KA
	820	0.243	3.25	35	45	P13856-ND	8.35	7.07	6.11	4.58	EET-UQ2V821LA
	1000	0.199	3.54	35	50	P13857-ND	8.87	7.65	6.72	5.29	EET-UQ2V102LA
400	120	1.658	1.02	22	25	P13858-ND	3.32	2.72	2.29	1.60	EET-UQ2G121HA
	150	1.326	1.16	22	30	P13859-ND	3.36	2.76	2.32	1.62	EET-UQ2G151HA

◆ ***RoHS Compliant***

(Continued)

Panasonic TS Series Large Aluminum Electrolytic Capacitors *(Cont.)*

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
400	180	1.105	1.44	22	30	P13860-ND	4.19	3.44	2.89	2.01	EET-UQ2G181HF
	180	1.105	1.44	22	35	P13861-ND	3.67	3.01	2.53	1.76	EET-UQ2G181HA
	220	0.904	1.49	22	35	P13862-ND	4.61	3.78	3.18	2.21	EET-UQ2G221HF
	220	0.904	1.49	22	40	P13863-ND	4.09	3.35	2.82	1.96	EET-UQ2G221HA
	220	0.904	1.49	25	30	P13864-ND	4.16	3.42	2.87	2.00	EET-UQ2G221JA
	270	0.737	1.67	22	45	P13865-ND	4.61	3.79	3.18	2.22	EET-UQ2G271HA
	270	0.737	1.67	25	35	P13866-ND	4.73	3.88	3.26	2.27	EET-UQ2G271JA
	270	0.737	1.67	30	30	P13867-ND	5.38	4.42	3.71	2.59	EET-UQ2G271KA
	270	0.737	1.67	30	25	P13868-ND	5.89	4.84	4.06	2.83	EET-UQ2G271KF
	330	0.603	1.90	22	50	P13869-ND	5.42	4.45	3.73	2.60	EET-UQ2G331HA
	330	0.603	1.90	25	40	P13870-ND	5.38	4.42	3.71	2.59	EET-UQ2G331JA
	330	0.603	1.90	30	30	P13871-ND	6.00	4.92	4.13	2.88	EET-UQ2G331KA
	330	0.603	1.90	35	25	P13872-ND	5.51	4.67	4.03	3.02	EET-UQ2G331LA
	390	0.510	2.13	25	45	P13873-ND	6.01	4.93	4.15	2.89	EET-UQ2G391JA
	390	0.510	2.13	30	35	P13874-ND	5.64	4.77	4.12	3.09	EET-UQ2G391KA
	390	0.510	2.13	35	30	P13875-ND	5.93	5.03	4.34	3.26	EET-UQ2G391LA
	470	0.423	2.39	25	50	P13876-ND	6.18	5.23	4.52	3.39	EET-UQ2G471JA
	470	0.423	2.39	30	40	P13877-ND	6.18	5.24	4.52	3.39	EET-UQ2G471KA
	470	0.423	2.39	35	30	P13878-ND	6.77	5.74	4.95	3.72	EET-UQ2G471LA
	560	0.355	2.69	30	45	P13879-ND	7.13	6.03	5.21	3.91	EET-UQ2G561KA
	560	0.355	2.69	35	35	P13880-ND	7.64	6.47	5.59	4.19	EET-UQ2G561LA
	680	0.293	2.96	35	40	P13881-ND	8.85	7.49	6.47	4.86	EET-UQ2G681LF
	680	0.293	2.96	30	50	P13882-ND	8.47	7.17	6.20	4.65	EET-UQ2G681KA
	680	0.293	2.96	35	45	P13883-ND	8.51	7.21	6.23	4.67	EET-UQ2G681LA
	820	0.243	3.25	35	45	P13884-ND	9.30	8.02	7.05	5.54	EET-UQ2G821LF
	820	0.243	3.25	35	50	P13885-ND	8.92	7.69	6.76	5.32	EET-UQ2G821LA
420	120	1.658	1.08	22	25	P13886-ND	4.04	3.32	2.79	1.94	EET-UQ2S121HA
	150	1.326	1.30	22	30	P13887-ND	4.09	3.35	2.82	1.96	EET-UQ2S151HA
	150	1.326	1.30	25	25	P13888-ND	4.16	3.41	2.87	2.00	EET-UQ2S151JA
	180	1.105	1.48	22	35	P13889-ND	4.45	3.65	3.07	2.14	EET-UQ2S181HA
	180	1.105	1.48	25	30	P13890-ND	4.56	3.74	3.14	2.19	EET-UQ2S181JA
	220	0.904	1.65	22	40	P13891-ND	4.91	4.03	3.38	2.36	EET-UQ2S221HF
	220	0.904	1.65	25	35	P13892-ND	5.03	4.12	3.46	2.41	EET-UQ2S221JA
	220	0.904	1.65	30	25	P13893-ND	5.63	4.62	3.88	2.70	EET-UQ2S221KA
	270	0.737	1.94	22	45	P13894-ND	5.53	4.54	3.81	2.66	EET-UQ2S271HF
	270	0.737	1.94	25	40	P13895-ND	5.59	4.58	3.85	2.68	EET-UQ2S271JA
	270	0.737	1.94	30	30	P13896-ND	5.74	4.71	3.96	2.76	EET-UQ2S271KA
	330	0.603	2.17	25	45	P13897-ND	5.37	4.55	3.93	2.95	EET-UQ2S331JA
	330	0.603	2.17	30	30	P13898-ND	6.28	5.32	4.59	3.45	EET-UQ2S331KF
	330	0.603	2.17	35	25	P13899-ND	5.91	5.00	4.32	3.24	EET-UQ2S331LA
	390	0.510	2.27	25	50	P13900-ND	6.44	5.45	4.71	3.53	EET-UQ2S391JA
	390	0.510	2.27	30	35	P13901-ND	6.54	5.54	4.79	3.59	EET-UQ2S391KA
	390	0.510	2.27	35	30	P13902-ND	6.73	5.70	4.92	3.69	EET-UQ2S391LA
	470	0.423	2.61	30	40	P13903-ND	7.33	6.21	5.36	4.02	EET-UQ2S471KF
	470	0.423	2.61	35	35	P13904-ND	7.56	6.40	5.53	4.15	EET-UQ2S471LA
	560	0.355	2.82	30	45	P13905-ND	8.30	7.02	6.07	4.55	EET-UQ2S561KF
	560	0.355	2.82	35	40	P13906-ND	8.63	7.31	6.31	4.73	EET-UQ2S561LA
	680	0.293	3.11	30	50	P13907-ND	10.59	9.13	8.03	6.31	EET-UQ2S681KF
	680	0.293	3.11	35	45	P13908-ND	10.22	8.81	7.75	6.09	EET-UQ2S681LA
	820	0.243	3.30	35	50	P13909-ND	11.60	10.00	8.79	6.91	EET-UQ2S821LA
450	82	2.426	0.83	22	25	P13910-ND	3.43	2.74	2.26	1.47	EET-UQ2W820HA
	100	1.989	0.93	22	25	P13911-ND	3.26	2.67	2.25	1.57	EET-UQ2W101HA
	120	1.658	1.04	22	30	P13912-ND	3.47	2.85	2.40	1.67	EET-UQ2W121HA
	150	1.326	1.19	22	30	P13913-ND	4.32	3.54	2.98	2.08	EET-UQ2W151HF
	150	1.326	1.19	22	35	P13914-ND	3.90	3.21	2.69	1.88	EET-UQ2W151HA
	150	1.326	1.19	25	25	P13915-ND	4.48	3.67	3.09	2.15	EET-UQ2W151JF
	150	1.326	1.19	25	30	P13916-ND	3.97	3.26	2.74	1.91	EET-UQ2W151JA
	180	1.105	1.35	22	35	P13917-ND	4.83	3.97	3.33	2.32	EET-UQ2W181HF
	180	1.105	1.35	22	40	P13918-ND	4.34	3.56	2.99	2.08	EET-UQ2W181HA
	180	1.105	1.35	25	30	P13919-ND	4.39	3.60	3.03	2.11	EET-UQ2W181JA
	220	0.904	1.55	22	45	P13920-ND	4.88	4.01	3.37	2.35	EET-UQ2W221HA
	220	0.904	1.45	25	35	P13921-ND	5.39	4.42	3.71	2.59	EET-UQ2W221JF
	220	0.904	1.55	25	40	P13922-ND	4.95	4.06	3.41	2.38	EET-UQ2W221JA
	220	0.904	1.55	30	25	P13923-ND	5.86	4.81	4.04	2.82	EET-UQ2W221KF
	220	0.904	1.55	30	30	P13924-ND	5.38	4.42	3.71	2.59	EET-UQ2W221KA
	220	0.904	1.55	35	25	P13925-ND	5.81	4.77	4.01	2.79	EET-UQ2W221LA
	270	0.737	1.78	22	50	P13926-ND	5.77	4.73	3.97	2.77	EET-UQ2W271HA
	270	0.737	1.78	25	40	P13927-ND	5.76	4.72	3.97	2.77	EET-UQ2W271JA
	270	0.737	1.78	30	30	P13928-ND	5.23	4.43	3.83	2.87	EET-UQ2W271KA
	270	0.737	1.78	35	25	P13929-ND	5.50	4.66	4.03	3.02	EET-UQ2W271LF
	330	0.603	2.01	25	45	P13930-ND	5.86	4.97	4.29	3.22	EET-UQ2W331JF
	330	0.603	2.01	30	35	P13931-ND	6.29	5.33	4.60	3.45	EET-UQ2W331KF
	330	0.603	2.01	30	40	P13932-ND	6.15	5.21	4.50	3.38	EET-UQ2W331KA
	330	0.603	2.01	35	30	P13933-ND	6.49	5.50	4.75	3.56	EET-UQ2W331LA
	390	0.510	2.24	30	40	P13934-ND	6.82	5.78	4.99	3.75	EET-UQ2W391KA
	390	0.510	2.24	35	30	P13935-ND	7.67	6.49	5.61	4.21	EET-UQ2W391LF
	390	0.510	2.24	35	35	P13936-ND	7.23	6.12	5.29	3.97	EET-UQ2W391LA
	470	0.423	2.53	30	45	P13937-ND	7.76	6.57	5.68	4.26	EET-UQ2W471KA
	470	0.423	2.53	35	35	P13938-ND	8.51	7.20	6.22	4.67	EET-UQ2W471LF
	470	0.423	2.53	35	40	P13939-ND	8.07	6.83	5.90	4.43	EET-UQ2W471LA
	560	0.355	2.82	30	50	P13940-ND	8.95	7.58	6.55	4.91	EET-UQ2W561KA
	560	0.355	2.82	35	40	P13941-ND	8.67	7.47	6.57	5.17	EET-UQ2W561LF
	560	0.355	2.82	35	45	P13942-ND	8.28	7.14	6.27	4.94	EET-UQ2W561LA
	680	0.293	3.02	35	45	P13943-ND	10.64	9.17	8.06	6.34	EET-UQ2W681LF

TSUQ Highly Miniaturized Version 85°C, 2000 Hour Life, 6.3mm Pins

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
160	560	0.355	2.25	22	25	P11839-ND◆	3.18	2.55	2.10	1.37	EET-UQ2C561BA
	680	0.293	2.50	22	30	P11840-ND◆	3.42	2.74	2.25	1.47	EET-UQ2C681BA
	820	0.243	2.75	22	35	P11841-ND◆	3.25	2.66	2.24	1.56	EET-UQ2C821BA
	1000	0.199	3.00	22	40	P11821-ND◆	3.55	2.91	2.45	1.71	EET-UQ2C102BA
	1000	0.199	3.00	25	30	P11822-ND◆	3.61	2.96	2.49	1.73	EET-UQ2C102CA
	1200	0.166	3.25	22	45	P11823-ND◆	3.92	3.22	2.71	1.89	EET-UQ2C122BA
	1200	0.166	3.25	25	35	P11824-ND	3.95	3.24	2.72	1.90	EET-UQ2C122CA
	1200	0.166	3.25	30	25	P11825-ND◆	4.66	3.83	3.22	2.24	EET-UQ2C122DA
	1500	0.133	3.73	22	50	P11826-ND◆	4.48	3.68	3.09	2.15	EET-UQ2C152BA
	1500	0.133	3.73	25	40	P11827-ND◆	4.78	3.92	3.29	2.30	EET-UQ2C152CA
	1500	0.133	3.73	30	30	P11828-ND	5.16	4.24	3.56	2.48	EET-UQ2C152DA
	1500	0.133	3.73	35	25	P11829-ND	5.54	4.54	3.82	2.66	EET-UQ2C152EA
	1800	0.111	4.20	25	45	P11830-ND◆	5.01	4.11	3.45	2.40	EET-UQ2C182CA

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
160	1800	0.120	4.20	30	35	P11831-ND◆	5.69	4.67	3.92	2.73	EET-UQ2C182DA
	1800	0.111	4.20	35	30	P11832-ND	6.06	4.97	4.18	2.91	EET-UQ2C182EA
	2200	0.090	4.78	30	40	P11833-ND◆	5.45	4.62	3.99	2.99	EET-UQ2C222DA
	2200	0.098	4.78	35	35	P11834-ND◆	5.80	4.91	4.25	3.19	EET-UQ2C222EA
	2700	0.074	5.45	30	45	P11835-ND◆	6.19	5.24	4.53	3.40	EET-UQ2C272DA
	2700	0.080	5.45	35	40	P11836-ND	6.59	5.58	4.82	3.61	EET-UQ2C272EA
	3300	0.070	5.75	35	45	P11837-ND	7.56	6.40	5.53	4.15	EET-UQ2C332EA
	3900	0.055	6.00	35	50	P11838-ND◆	7.75	6.68	5.87	4.62	EET-UQ2C392EA
200	390	0.510	1.68	22	25	P11856-ND◆	3.10	2.48	2.04	1.33	EET-UQ2D391BA
	470	0.423	1.85	22	30	P11857-ND	3.34	2.68	2.20	1.44	EET-UQ2D471BA
	560	0.355	2.43	22	30	P11858-ND	3.11	2.56	2.15	1.50	EET-UQ2D561BA
	560	0.355	2.43	25	25	P11859-ND	3.18	2.61	2.19	1.53	EET-UQ2D561CA
	680	0.293	2.68	22	35	P11860-ND◆	3.40	2.79	2.35	1.64	EET-UQ2D681BA
	680	0.293	2.68	25	30	P11861-ND◆	3.45	2.83	2.38	1.66	EET-UQ2D681CA
	820	0.243	2.93	25	30	P11862-ND◆	3.75	3.08	2.59	1.80	EET-UQ2D821CA
	820	0.243	2.93	30	25	P11863-ND◆	4.48	3.68	3.09	2.15	EET-UQ2D821DA
	1000	0.199	3.25	22	45	P11842-ND◆	4.13	3.39	2.85	1.99	EET-UQ2D102BA
	1000	0.199	3.25	25	35	P11843-ND◆	4.16	3.41	2.87	2.00	EET-UQ2D102CA
	1000	0.199	3.25	30	30	P11844-ND◆	4.66	3.83	3.22	2.24	EET-UQ2D102DA
	1000	0.232	3.25	35	25	P11845-ND◆	5.23	4.29	3.60	2.51	EET-UQ2D102EA
	1200	0.166	3.50	25	40	P11846-ND◆	4.64	3.81	3.20	2.23	EET-UQ2D122CA
	1200	0.166	3.50	30	30	P11847-ND◆	5.32	4.37	3.67	2.56	EET-UQ2D122DA
	1500	0.133	3.87	25	50	P11848-ND◆	5.40	4.43	3.72	2.59	EET-UQ2D152CA
	1500	0.144	3.87	30	35	P11849-ND◆	6.02	4.94	4.15	2.89	EET-UQ2D152DA
	1500	0.144	3.87	35	30	P11850-ND◆	5.49	4.65	4.02	3.02	EET-UQ2D152EA
	1800	0.120	4.32	30	45	P11851-ND◆	5.74	4.86	4.20	3.15	EET-UQ2D182DA
	1800	0.120	4.32	35	35	P11852-ND	6.14	5.20	4.49	3.37	EET-UQ2D182EA
	2200	0.098	4.92	30	50	P11853-ND◆	6.61	5.60	4.84	3.63	EET-UQ2D222DA
	2200	0.105	4.92	35	40	P11854-ND◆	7.03	5.95	5.14	3.86	EET-UQ2D222EA
	2700	0.086	5.54	35	50	P11855-ND◆	8.12	6.88	5.94	4.46	EET-UQ2D272EA
250	270	0.737	1.31	22	25	P11872-ND	3.17	2.54	2.09	1.36	EET-UQ2E271BA
	330	0.603	1.75	22	30	P11873-ND◆	3.42	2.74	2.25	1.47	EET-UQ2E331BA
	390	0.510	1.91	22	30	P11874-ND	3.20	2.62	2.21	1.54	EET-UQ2E391BA
	390	0.510	1.91	25	25	P11875-ND	3.25	2.67	2.24	1.56	EET-UQ2E391CA
	470	0.423	2.11	22	35	P11876-ND◆	3.49	2.86	2.41	1.68	EET-UQ2E471BA
	470	0.423	2.11	25	30	P11877-ND◆	3.53	2.90	2.43	1.70	EET-UQ2E471CA
	560	0.355	2.25	22	40	P11878-ND	3.81	3.13	2.63	1.83	EET-UQ2E561BA
	560	0.355	2.25	25	30	P11879-ND◆	3.87	3.17	2.67	1.86	EET-UQ2E561CA
	560	0.355	2.25	30	25	P11880-ND	4.36	3.58	3.01	2.09	EET-UQ2E561DA
	680	0.293	2.30	30	25	P13319-ND◆	4.70	4.07	3.44	2.58	EET-UQ2E681DF
	680	0.293	2.50	22	45	P11881-ND	4.24	3.48	2.92	2.04	EET-UQ2E681BA
	680	0.293	2.50	25	35	P11882-ND◆	4.28	3.51	2.95	2.06	EET-UQ2E681CA
	680	0.293	2.50	30	30	P11883-ND◆	4.97	4.07	3.42	2.39	EET-UQ2E681DA
	820	0.243	2.77	22	50	P11884-ND	4.79	3.93	3.30	2.30	EET-UQ2E821BA
	820	0.243	2.77	25	40	P11885-ND◆	4.78	3.92	3.29	2.30	EET-UQ2E821CA
	820	0.243	2.77	30	30	P11886-ND◆	5.27	4.32	3.63	2.53	EET-UQ2E821DA
	820	0.243	2.77	35	25	P11887-ND◆	5.84	4.79	4.03	2.81	EET-UQ2E821EA
	1000	0.199	3.32	25	45	P11864-ND	5.42	4.45	3.74	2.60	EET-UQ2E102CA
	1000	0.199	3.32	30	35	P11865-ND◆	5.89	4.83	4.06	2.83	EET-UQ2E102DA
	1000	0.199	3.32	35	30	P11866-ND◆	5.53	4.68	4.04	3.03	EET-UQ2E102EA
	1200	0.166	3.53	30	40	P11867-ND◆	5.81	4.92	4.25	3.19	EET-UQ2E122DA
	1200	0.166	3.53	35	35	P11868-ND◆	6.19	5.24	4.53	3.40	EET-UQ2E122EA
	1500	0.133	4.04	30	50	P11869-ND◆	6.81	5.76	4.98	3.74	EET-UQ2E152DA
	1500	0.133	4.04	35	40	P11870-ND◆	7.12	6.03	5.21	3.91	EET-UQ2E152EA
	1800	0.111	4.55	35	45	P11871-ND◆	8.09	6.85	5.92	4.44	EET-UQ2E182EA
350	150	1.326	1.12	22	25	P11912-ND	3.12	2.56	2.15	1.50	EET-UQ2V151BA
	180	1.105	1.22	22	30	P11913-ND◆	3.32	2.73	2.29	1.60	EET-UQ2V181BA
	220	0.904	1.44	22	35	P11914-ND◆	3.69	3.03	2.54	1.77	EET-UQ2V221BA
	270	0.737	1.66	22	40	P11915-ND	4.11	3.38	2.84	1.98	EET-UQ2V271BA
	270	0.737	1.66	25	30	P11916-ND◆	4.22	3.46	2.91	2.03	EET-UQ2V271CA
	330	0.603	1.88	22	45	P11917-ND◆	4.61	3.78	3.18	2.21	EET-UQ2V331BA
	330	0.603	1.88	25	35	P11918-ND◆	4.72	3.87	3.26	2.27	EET-UQ2V331CA
	390	0.510	2.06	22	50	P11919-ND	5.28	4.33	3.64	2.54	EET-UQ2V391BA
	390	0.510	2.06	25	40	P11920-ND	5.26	4.32	3.63	2.53	EET-UQ2V391CA
	390	0.510	2.06	30	30	P11921-ND	5.86	4.81	4.04	2.82	EET-UQ2V391DA
	390	0.510	2.06	35	25	P11922-ND	5.35	4.53	3.91	2.93	EET-UQ2V391EA
	470	0.423	2.40	25	45	P11923-ND	5.93	4.87	4.09	2.85	EET-UQ2V471CA
	470	0.423	2.40	30	35	P11924-ND	5.56	4.71	4.07	3.05	EET-UQ2V471DA
	470	0.423	2.40	35	30	P11925-ND◆	5.81	4.92	4.25	3.19	EET-UQ2V471EA
	560	0.355	2.60	25	50	P11926-ND	5.80	4.91	4.24	3.18	EET-UQ2V561CA
	560	0.355	2.60	30	40	P11927-ND	6.23	5.28	4.56	3.42	EET-UQ2V561DA
	560	0.355	2.60	35	30	P11928-ND◆	6.57	5.57	4.81	3.61	EET-UQ2V561EA
	680	0.293	2.93	30	45	P11929-ND◆	7.11	6.02	5.20	3.90	EET-UQ2V681DA
	680	0.293	2.93	35	35	P11930-ND◆	7.48	6.33	5.47	4.10	EET-UQ2V681EA
	820	0.243	3.25	30	50	P11931-ND◆	8.33	7.06	6.09	4.57	EET-UQ2V821DA
	820	0.243	3.25	35	45	P11932-ND◆	8.38	7.09	6.13	4.60	EET-UQ2V821EA
	1000	0.199	3.54	35	50	P11911-ND◆	8.89	7.67	6.74	5.30	EET-UQ2V102EA
400	120	1.658	1.02	22	25	P11888-ND◆	3.32	2.73	2.29	1.60	EET-UQ2G121BA
	150	1.326	1.16	22	30	P11889-ND◆	3.37	2.77	2.33	1.62	EET-UQ2G151BA
	180	1.105	1.30	22	30	P13320-ND◆	3.58	3.10	2.62	1.97	EET-UQ2G181BF
	180	1.105	1.44	22	35	P11890-ND◆	3.68	3.02	2.54	1.77	EET-UQ2G181BA
	220	0.904	1.40	22	35	P13321-ND◆	3.94	3.41	2.88	2.16	EET-UQ2G221BF
	220	0.904	1.49	22	40	P11891-ND◆	4.10	3.36	2.83	1.97	EET-UQ2G221BA
	220	0.904	1.49	25	30	P11892-ND◆	4.17	3.42	2.88	2.01	EET-UQ2G221CA
	270	0.737	1.67	22	45	P11893-ND◆	4.63	3.80	3.19	2.22	EET-UQ2G271BA
	270	0.737	1.67	25	35	P11894-ND	4.75	3.89	3.27	2.28	EET-UQ2G271CA
	270	0.737	1.67	30	30	P11895-ND◆	5.40	4.43	3.72	2.59	EET-UQ2G271DA
	330	0.603	1.90	22	50	P11896-ND◆	5.43	4.46	3.75	2.61	EET-UQ2G331BA
	330	0.603	1.90	25	40	P11897-ND◆	5.40	4.43	3.72	2.59	EET-UQ2G331CA
	330	0.603	1.90	30	30	P11898-ND◆	6.01	4.93	4.15	2.89	EET-UQ2G331DA
	330	0.603	1.90	35	25	P11899-ND◆	5.53	4.68	4.04	3.03	EET-UQ2G331EA
	390	0.510	2.13	25	45	P11900-ND	6.03	4.95	4.16	2.90	EET-UQ2G391CA
	390	0.510	2.13	30	35	P11901-ND	5.65	4.79	4.14	3.10	EET-UQ2G391DA
	390	0.510	2.13	35	30	P11902-ND◆	5.95	5.04	4.35	3.27	EET-UQ2G391EA
	470	0.423	2.39	25	50	P11903-ND◆	6.19	5.24	4.53	3.40	EET-UQ2G471CA
	470	0.423	2.39	30	40	P11904-ND◆	6.20	5.25	4.54	3.40	EET-UQ2G471DA
	470	0.423	2.39	35	30	P11905-ND◆	6.79	5.75	4.97	3.73	EET-UQ2G471EA
	560	0.355	2.69	30	45	P11906-ND◆	7.15	6.05	5.23	3.92	EET-UQ2G561DA

◆ ***RoHS Compliant***

(Continued)

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
400	560	0.355	2.69	35	35	P11907-ND◆	7.66	6.49	5.60	4.20	EET-UQ2G561EA
	680	0.293	2.70	35	40	P13322-ND◆	8.88	7.69	6.49	4.87	EET-UQ2G681EF
	680	0.293	2.96	30	50	P11908-ND◆	7.68	6.62	5.82	4.58	EET-UQ2G681DA
	680	0.293	2.96	35	45	P11909-ND◆	7.72	6.65	5.85	4.60	EET-UQ2G681EA
	820	0.243	2.96	35	45	P13323-ND◆	10.32	8.93	7.54	5.66	EET-UQ2G821EF
	820	0.243	3.25	35	50	P11910-ND◆	8.94	7.71	6.78	5.33	EET-UQ2G821EA
420	150	1.326	1.18	22	30	P13324-ND◆	3.49	3.03	2.56	1.92	EET-UQ2S151BA
	150	1.326	1.18	25	25	P13325-ND◆	3.55	3.08	2.60	1.95	EET-UQ2S151CA
	180	1.105	1.40	22	35	P13326-ND◆	3.80	3.29	2.78	2.09	EET-UQ2S181BA
	220	0.904	1.52	22	40	P13327-ND◆	4.19	3.63	3.07	2.30	EET-UQ2S221BA
	220	0.904	1.52	25	35	P13328-ND◆	4.30	3.72	3.14	2.36	EET-UQ2S221CA
	220	0.904	1.52	30	25	P13329-ND◆	4.81	4.17	3.52	2.64	EET-UQ2S221DA
	270	0.737	1.73	22	45	P13330-ND◆	4.73	4.10	3.46	2.60	EET-UQ2S271BA
	270	0.737	1.73	25	40	P13331-ND◆	4.77	4.14	3.49	2.62	EET-UQ2S271CA
	330	0.603	1.95	25	45	P13332-ND◆	5.38	4.66	3.94	2.95	EET-UQ2S331CA
	330	0.603	1.95	30	30	P13333-ND◆	5.92	5.13	4.33	3.25	EET-UQ2S331DA
	390	0.510	2.17	25	50	P13334-ND◆	6.46	5.59	4.72	3.54	EET-UQ2S391CA
	390	0.510	2.17	30	35	P13335-ND◆	6.56	5.68	4.80	3.60	EET-UQ2S391DA
	390	0.510	2.17	35	30	P13336-ND◆	6.75	5.85	4.94	3.70	EET-UQ2S391EA
	470	0.423	2.44	30	40	P13337-ND◆	7.35	6.37	5.38	4.03	EET-UQ2S471DA
	470	0.423	2.44	35	35	P13338-ND◆	7.58	6.57	5.55	4.16	EET-UQ2S471EA
	560	0.355	2.74	30	45	P13339-ND◆	8.32	7.20	6.08	4.56	EET-UQ2S561DA
	560	0.355	2.74	35	40	P13340-ND◆	8.65	7.49	6.33	4.75	EET-UQ2S561EA
	680	0.293	3.11	35	45	P13341-ND◆	11.34	9.82	8.29	6.22	EET-UQ2S681EA
450	82	2.426	0.83	22	25	P11955-ND◆	3.43	2.75	2.26	1.48	EET-UQ2W820BA
	100	1.989	0.93	22	25	P11933-ND◆	3.26	2.68	2.25	1.57	EET-UQ2W101BA
	120	1.658	1.04	22	30	P11934-ND◆	3.48	2.86	2.40	1.68	EET-UQ2W121BA
	150	1.326	1.19	22	35	P11935-ND◆	3.92	3.21	2.70	1.88	EET-UQ2W151BA
	150	1.326	1.19	25	30	P11936-ND◆	3.98	3.27	2.75	1.91	EET-UQ2W151CA
	180	1.105	1.35	22	40	P11937-ND◆	4.35	3.57	3.00	2.09	EET-UQ2W181BA
	180	1.105	1.35	25	30	P11938-ND◆	4.40	3.61	3.04	2.12	EET-UQ2W181CA
	220	0.904	1.45	25	35	P13342-ND◆	4.60	3.99	3.37	2.53	EET-UQ2W221CF
	220	0.904	1.55	22	45	P11939-ND◆	4.90	4.02	3.38	2.35	EET-UQ2W221BA
	220	0.904	1.55	25	40	P11940-ND◆	4.97	4.07	3.42	2.39	EET-UQ2W221CA
	220	0.904	1.55	30	30	P11941-ND◆	5.40	4.43	3.72	2.59	EET-UQ2W221DA
	220	0.904	1.55	35	25	P11942-ND◆	5.83	4.78	4.02	2.80	EET-UQ2W221EA
	270	0.737	1.78	22	50	P11943-ND◆	5.78	4.74	3.99	2.78	EET-UQ2W271BA
	270	0.737	1.78	25	40	P11944-ND◆	5.77	4.74	3.98	2.77	EET-UQ2W271CA
	270	0.737	1.78	30	30	P11945-ND◆	5.24	4.44	3.84	2.88	EET-UQ2W271DA
	330	0.603	1.88	30	35	P13343-ND◆	6.31	5.46	4.61	3.46	EET-UQ2W331DF
	330	0.603	2.01	25	50	P11946-ND◆	5.88	4.98	4.30	3.23	EET-UQ2W331CA
	330	0.603	2.01	30	40	P11947-ND◆	6.17	5.22	4.51	3.39	EET-UQ2W331DA
	330	0.603	2.01	35	30	P11948-ND◆	6.51	5.51	4.76	3.57	EET-UQ2W331EA
	390	0.510	2.24	30	40	P11949-ND	6.85	5.80	5.01	3.76	EET-UQ2W391DA
	390	0.510	2.24	35	35	P11950-ND◆	7.25	6.14	5.30	3.98	EET-UQ2W391EA
	470	0.423	2.53	30	45	P11951-ND◆	7.78	6.59	5.69	4.27	EET-UQ2W471DA
	470	0.423	2.53	35	40	P11952-ND◆	8.09	6.85	5.92	4.44	EET-UQ2W471EA
	560	0.355	2.82	30	50	P11953-ND◆	8.11	7.00	6.15	4.84	EET-UQ2W561DA
	560	0.355	2.82	35	45	P11954-ND◆	8.30	7.16	6.29	4.95	EET-UQ2W561EA
	680	0.293	3.02	35	50	P13344-ND◆	11.80	10.22	8.63	6.47	EET-UQ2W681EA

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
TSNH Long Life and High Ripple Current 105°C, 2000 Hour Life											
16	4700	—	2.0	22	31.5	P6450-ND	3.10	2.49	2.04	1.33	ECE-S1CG472E
	33000	—	4.8	35	51	P6455-ND	7.85	6.64	5.74	4.31	ECE-S1CG333Z
25	3300	—	1.7	22	31.5	P6456-ND	3.07	2.46	2.02	1.32	ECE-S1EG332E
	6800	—	2.6	25	40	P6458-ND	3.79	3.11	2.61	1.82	ECE-S1EG682M
	10000	—	3.1	25	50	P6459-ND	4.69	3.85	3.24	2.25	ECE-S1EG103N
	22000	—	4.0	35	51	P6461-ND	8.16	6.91	5.96	4.47	ECE-S1EG223Z
35	15000	—	3.9	35	51	P6467-ND	6.92	5.86	5.06	3.80	ECE-S1VG153Z
50	10000	—	3.7	35	51	P6473-ND	6.61	5.60	4.84	3.63	ECE-S1HG103Z
63	3300	—	2.5	25	50	P6536-ND	4.51	3.70	3.11	2.17	ECE-S1JG332N
100	470	—	1.2	22	31.5	P6474-ND	3.31	2.65	2.18	1.42	ECE-S2AG471E
	680	—	1.4	22	40	P6539-ND	3.32	2.73	2.29	1.60	ECE-S2AG681G
250	330	—	1.25	25	50	P6581-ND	4.87	4.00	3.36	2.34	ECE-S2EG331N
	680	—	1.8	35	51	P6583-ND	6.71	5.68	4.91	3.68	ECE-S2EG681Z
400	220	—	1.0	30	50	P6587-ND	6.00	5.08	4.39	3.29	ECE-S2GG221U
TSHA Miniaturized Size, Long Life and High Ripple Current 105°C, 3000 Hour Life											
16	3300	0.176	1.30	22	25	P7461-ND◆	2.83	2.27	1.56	1.02	ECO-S1CA332BA
	4700	0.123	1.52	22	25	P7462-ND	3.03	2.43	1.67	1.09	ECO-S1CA472BA
	6800	0.085	2.20	22	25	P6436-ND◆	3.28	2.63	1.80	1.18	ECO-S1CA682BA
	8200	0.071	2.40	22	30	P6441-ND◆	3.56	2.85	1.96	1.28	ECO-S1CA822BA
	10000	0.066	2.60	25	25	P6460-ND◆	3.41	2.80	1.96	1.37	ECO-S1CA103CA
	12000	0.055	2.90	22	35	P6468-ND◆	3.56	2.93	2.05	1.43	ECO-S1CA123BA
	12000	0.055	2.90	30	25	P6477-ND	3.92	3.22	2.25	1.57	ECO-S1CA123DA
	15000	0.046	3.20	30	30	P6541-ND◆	4.28	3.51	2.46	1.72	ECO-S1CA153DA
	18000	0.040	3.50	22	45	P6543-ND	4.19	3.44	2.41	1.68	ECO-S1CA183BA
	18000	0.040	3.50	35	25	P6545-ND◆	5.05	4.14	2.90	2.02	ECO-S1CA183EA
	22000	0.033	3.80	25	45	P6547-ND◆	4.86	3.99	2.79	1.95	ECO-S1CA223CA
	22000	0.033	3.80	35	30	P6550-ND◆	5.52	4.53	3.17	2.21	ECO-S1CA223EA
	27000	0.028	4.20	25	50	P6552-ND◆	5.36	4.40	3.08	2.15	ECO-S1CA273CA
	27000	0.028	4.20	35	30	P6558-ND	6.10	5.01	3.51	2.44	ECO-S1CA273EA
	33000	0.023	4.70	30	45	P6559-ND◆	5.53	4.69	3.38	2.53	ECO-S1CA333DA
	33000	0.023	4.70	35	35	P6560-ND◆	5.83	4.94	3.55	2.67	ECO-S1CA333EA
	39000	0.022	5.10	30	50	P6561-ND◆	6.03	5.10	3.68	2.76	ECO-S1CA393DA
	39000	0.022	5.10	35	40	P6562-ND◆	6.56	5.55	4.00	3.00	ECO-S1CA393EA
	47000	0.020	5.50	35	45	P6563-ND◆	7.29	6.18	4.45	3.34	ECO-S1CA473EA
	56000	0.019	6.00	35	50	P6999-ND	7.77	6.58	4.73	3.55	ECO-S1CA563EA
25	2200	0.241	1.30	22	25	P7463-ND◆	2.81	2.26	1.55	1.01	ECO-S1EA222BA
	3300	0.161	1.62	22	25	P7464-ND◆	3.03	2.43	1.66	1.09	ECO-S1EA332BA
	4700	0.106	2.00	20	30	P6998-ND	3.81	3.13	2.19	1.53	ECO-S1EA472AA
	4700	0.106	2.00	22	25	P6566-ND◆	3.29	2.64	1.81	1.18	ECO-S1EA472BA

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
25	5600	0.089	2.20	20	35	P6567-ND	4.02	3.30	2.31	1.61	ECO-S1EA562AA
	5600	0.089	2.20	22	30	P6997-ND	3.57	2.86	1.96	1.28	ECO-S1EA562BA
	6800	0.073	2.40	25	25	P6570-ND◆	3.41	2.80	1.96	1.37	ECO-S1EA682CA
	8200	0.061	2.70	22	35	P6571-ND◆	3.58	2.94	2.06	1.44	ECO-S1EA822BA
	8200	0.061	2.70	30	25	P6572-ND	3.92	3.22	2.26	1.57	ECO-S1EA822DA
	10000	0.051	3.00	22	40	P6573-ND◆	3.80	3.12	2.19	1.52	ECO-S1EA103BA
	10000	0.051	3.00	30	30	P6574-ND◆	4.25	3.48	2.44	1.70	ECO-S1EA103DA
	12000	0.044	3.20	22	45	P6575-ND◆	4.27	3.50	2.45	1.71	ECO-S1EA123BA
	12000	0.044	3.20	35	25	P6576-ND◆	5.01	4.11	2.88	2.01	ECO-S1EA123EA
	15000	0.036	3.60	25	45	P6577-ND◆	4.87	4.00	2.80	1.95	ECO-S1EA153CA
	15000	0.036	3.60	35	30	P6578-ND◆	5.52	4.53	3.17	2.21	ECO-S1EA153EA
	18000	0.030	3.90	25	50	P6996-ND◆	5.29	4.34	3.04	2.12	ECO-S1EA183CA
	18000	0.030	3.90	35	35	P6590-ND◆	6.07	4.98	3.49	2.43	ECO-S1EA183EA
	22000	0.025	4.30	30	45	P6591-ND	5.46	4.63	3.33	2.50	ECO-S1EA223DA
	22000	0.025	4.30	35	35	P6592-ND◆	5.75	4.87	3.51	2.63	ECO-S1EA223EA
	27000	0.021	4.80	35	45	P6593-ND◆	6.56	5.56	4.00	3.00	ECO-S1EA273EA
	33000	0.018	5.50	35	50	P6594-ND◆	7.40	6.27	4.51	3.39	ECO-S1EA333EA
35	1500	0.287	1.10	22	25	P7465-ND◆	2.88	2.31	1.58	1.03	ECO-S1VA152BA
	2200	0.196	1.48	22	25	P7466-ND◆	3.12	2.50	1.72	1.12	ECO-S1VA222BA
	3300	0.121	1.90	22	25	P6596-ND◆	3.44	2.76	1.89	1.23	ECO-S1VA332BA
	3900	0.111	2.00	20	35	P6597-ND	4.17	3.42	2.39	1.67	ECO-S1VA392AA
	3900	0.111	2.00	22	30	P6598-ND◆	3.70	2.97	2.03	1.33	ECO-S1VA392BA
	4700	0.088	2.20	25	25	P6600-ND◆	3.58	2.94	2.06	1.43	ECO-S1VA472CA
	5600	0.074	2.40	22	35	P6658-ND◆	3.76	3.08	2.16	1.51	ECO-S1VA562BA
	5600	0.074	2.40	30	25	P6659-ND	4.06	3.33	2.33	1.63	ECO-S1VA562DA
	6800	0.061	2.60	22	40	P6660-ND◆	4.11	3.37	2.36	1.65	ECO-S1VA682BA
	6800	0.061	2.60	30	30	P6661-ND◆	4.41	3.62	2.53	1.77	ECO-S1VA682DA
	8200	0.051	2.90	22	50	P6662-ND◆	4.41	3.62	2.53	1.77	ECO-S1VA822BA
	8200	0.051	2.90	35	25	P6663-ND◆	5.22	4.28	3.00	2.09	ECO-S1VA822EA
	10000	0.041	3.20	25	45	P6664-ND◆	5.13	4.21	2.95	2.05	ECO-S1VA103CA
	10000	0.041	3.20	35	30	P6665-ND◆	5.71	4.69	3.28	2.29	ECO-S1VA103EA
	12000	0.035	3.50	25	50	P6666-ND◆	5.60	4.59	3.22	2.24	ECO-S1VA123CA
	12000	0.035	3.50	35	30	P6667-ND◆	6.35	5.21	3.65	2.54	ECO-S1VA123EA
	15000	0.030	3.90	30	45	P6668-ND◆	5.88	4.98	3.58	2.69	ECO-S1VA153DA
	15000	0.030	3.90	35	35	P6669-ND◆	6.17	5.23	3.76	2.82	ECO-S1VA153EA
	18000	0.028	4.30	35	40	P6670-ND◆	7.04	5.96	4.29	3.22	ECO-S1VA183EA
	22000	0.023	5.00	35	50	P6671-ND◆	7.73	6.54	4.71	3.53	ECO-S1VA223EA
50	1000	0.232	0.90	22	25	P7467-ND◆	2.91	2.34	1.60	1.05	ECO-S1HA102BA
	1500	0.155	1.25	22	25	P7468-ND◆	3.12	2.50	1.72	1.12	ECO-S1HA152BA
	1800	0.129	1.50	22	25	P6673-ND◆	3.28	2.63	1.80	1.18	ECO-S1HA182BA
	2200	0.105	1.70	22	30	P6675-ND◆	3.57	2.86	1.96	1.28	ECO-S1HA222BA
	2700	0.086	1.80	25	25	P6677-ND◆	3.43	2.82	1.97	1.38	ECO-S1HA272CA
	3300	0.070	2.00	22	35	P6678-ND◆	3.63	2.98	2.09	1.45	ECO-S1HA332BA
	3300	0.070	2.00	25	30	P6679-ND◆	3.69	3.03	2.12	1.48	ECO-S1HA332CA
	3900	0.064	2.20	22	40	P6680-ND◆	3.88	3.19	2.23	1.56	ECO-S1HA392BA
	3900	0.064	2.20	30	25	P6681-ND◆	4.23	3.48	2.43	1.70	ECO-S1HA392DA
	4700	0.053	2.50	22	45	P6682-ND◆	4.27	3.51	2.46	1.71	ECO-S1HA472BA
	4700	0.053	2.50	35	25	P6683-ND◆	5.02	4.12	2.89	2.01	ECO-S1HA472EA
	5600	0.050	2.80	22	50	P6684-ND◆	4.62	3.79	2.65	1.85	ECO-S1HA562BA
	5600	0.050	2.80	35	30	P6685-ND◆	5.41	4.44	3.11	2.17	ECO-S1HA562EA
	6800	0.046	3.30	25	50	P6686-ND◆	5.20	4.27	2.99	2.08	ECO-S1HA682CA
	6800	0.046	3.30	35	30	P6687-ND◆	5.94	4.87	3.41	2.38	ECO-S1HA682EA
	8200	0.038	3.60	30	45	P6688-ND◆	6.25	5.13	3.59	2.50	ECO-S1HA822DA
	8200	0.038	3.60	35	35	P6689-ND◆	5.61	4.75	3.42	2.57	ECO-S1HA822EA
	10000	0.033	4.00	30	50	P6690-ND◆	5.89	4.99	3.59	2.69	ECO-S1HA103DA
	10000	0.033	4.00	35	40	P6691-ND◆	6.42	5.43	3.91	2.94	ECO-S1HA103EA
	12000	0.028	4.50	35	45	P6692-ND◆	7.11	6.02	4.34	3.25	ECO-S1HA123EA
	15000	0.022	4.80	35	50	P6693-ND◆	8.17	6.92	4.98	3.74	ECO-S1HA153EA
63	680	0.414	0.90	22	25	P7469-ND◆	2.89	2.31	1.59	1.04	ECO-S1JA681BA
	1000	0.282	1.17	22	25	P7470-ND◆	3.07	2.46	1.68	1.10	ECO-S1JA102BA
	1200	0.235	1.40	20	30	P7471-ND	4.28	3.42	2.35	1.53	ECO-S1JA122AA
	1200	0.235	1.40	22	25	P7472-ND◆	3.22	2.58	1.77	1.15	ECO-S1JA122BA
	1500	0.188	1.50	20	35	P7473-ND	4.56	3.65	2.50	1.63	ECO-S1JA152AA
	1500	0.188	1.50	22	30	P7474-ND◆	3.52	2.82	1.93	1.26	ECO-S1JA152BA
	1800	0.157	1.70	22	30	P7475-ND	3.73	2.99	2.05	1.34	ECO-S1JA182BA
	1800	0.157	1.70	25	25	P7476-ND◆	3.83	3.07	2.10	1.37	ECO-S1JA182CA
	2200	0.128	2.00	22	35	P7477-ND◆	4.03	3.23	2.21	1.44	ECO-S1JA222BA
	2200	0.128	2.00	25	30	P7478-ND◆	4.11	3.29	2.25	1.47	ECO-S1JA222CA
	2700	0.104	2.20	22	40	P7479-ND◆	4.38	3.51	2.41	1.57	ECO-S1JA272BA
	2700	0.104	2.20	30	25	P7480-ND◆	4.78	3.83	2.62	1.71	ECO-S1JA272DA
	3300	0.090	2.50	22	50	P7481-ND◆	4.79	3.83	2.63	1.71	ECO-S1JA332BA
	3300	0.090	2.50	35	25	P7482-ND◆	5.70	4.56	3.13	2.04	ECO-S1JA332EA
	3900	0.077	2.70	25	45	P7483-ND	5.37	4.30	2.95	1.92	ECO-S1JA392CA
	3900	0.077	2.70	35	30	P7484-ND◆	6.12	4.90	3.36	2.19	ECO-S1JA392EA
	4700	0.063	3.00	25	50	P7485-ND◆	5.84	4.67	3.20	2.09	ECO-S1JA472CA
	4700	0.063	3.00	35	30	P7486-ND◆	6.68	5.35	3.66	2.39	ECO-S1JA472EA
	5600	0.053	3.30	30	45	P7487-ND◆	6.96	5.57	3.82	2.49	ECO-S1JA562DA
	5600	0.053	3.30	35	35	P7488-ND	7.34	5.88	4.03	2.63	ECO-S1JA562EA
	6800	0.049	3.60	30	50	P7489-ND◆	7.66	6.13	4.20	2.74	ECO-S1JA682DA
	6800	0.049	3.60	35	40	P7490-ND◆	8.38	6.71	4.59	3.00	ECO-S1JA682EA
	8200	0.040	3.90	35	45	P7491-ND◆	9.28	7.43	5.09	3.32	ECO-S1JA822EA
	10000	0.033	4.40	35	50	P7492-ND◆	10.47	8.38	5.74	3.74	ECO-S1JA103EA
80	470	0.388	0.80	22	25	P7493-ND	2.92	2.34	1.60	1.05	ECO-S1KA471BA
	680	0.268	1.00	22	25	P7494-ND◆	3.16	2.53	1.73	1.13	ECO-S1KA681BA
	820	0.222	1.20	20	30	P7495-ND	4.48	3.59	2.46	1.60	ECO-S1KA821AA
	820	0.222	1.20	22	25	P7496-ND◆	3.28	2.63	1.80	1.18	ECO-S1KA821BA
	1000	0.182	1.30	22	30	P7497-ND◆	3.70	2.97	2.03	1.33	ECO-S1KA102BA
	1000	0.182	1.30	25	25	P7498-ND◆	3.83	3.07	2.10	1.37	ECO-S1KA102CA
	1200	0.166	1.50	22	30	P7499-ND◆	3.88	3.11	2.13	1.39	ECO-S1KA122BA
	1200	0.166	1.50	25	25	P7500-ND◆	3.92	3.14	2.15	1.41	ECO-S1KA122CA
	1500	0.133	1.70	22	35	P7501-ND◆	4.18	3.35	2.30	1.50	ECO-S1KA152BA
	1500	0.133	1.70	25	30	P7502-ND	4.44	3.56	2.44	1.59	ECO-S1KA152CA
	1800	0.111	1.80	22	40	P7503-ND	4.43	3.55	2.43	1.59	ECO-S1KA182BA
	1800	0.111	1.80	30	25	P7504-ND◆	4.80	3.85	2.64	1.72	ECO-S1KA182DA
	2200	0.090	2.10	22	45	P7505-ND◆	4.89	3.92	2.68	1.75	ECO-S1KA222BA
	2200	0.090	2.10	35	25	P7506-ND◆	6.15	4.93	3.37	2.20	ECO-S1KA222EA
	2700	0.074	2.40	25	45	P7507-ND	5.69	4.55	3.12	2.04	ECO-S1KA272CA

◆ ***RoHS Compliant***

(Continued)

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm) D	Dim. (mm) L	Digi-Key Part No.	Price Each 1	10	50	200	Panasonic Part No.
80	2700	0.074	2.40	35	30	P7508-ND◆	6.74	5.39	3.69	2.41	ECO-S1KA272EA
	3300	0.065	2.60	25	50	P7509-ND◆	6.23	4.99	3.42	2.23	ECO-S1KA332CA
	3300	0.065	2.60	35	30	P7510-ND◆	7.09	5.68	3.89	2.54	ECO-S1KA332EA
	4700	0.049	3.30	30	50	P7511-ND◆	8.15	6.53	4.47	2.92	ECO-S1KA472DA
	4700	0.049	3.30	35	40	P7512-ND◆	8.90	7.12	4.88	3.18	ECO-S1KA472EA
	5600	0.050	3.70	35	45	P7513-ND◆	9.84	7.87	5.39	3.52	ECO-S1KA562EA
	6800	0.041	3.90	35	50	P7514-ND◆	11.06	8.85	6.06	3.96	ECO-S1KA682EA
100	330	0.553	0.80	22	25	P7515-ND◆	3.05	2.44	1.67	1.09	ECO-S2AA331BA
	470	0.388	0.92	22	25	P7516-ND◆	3.11	2.49	1.71	1.11	ECO-S2AA471BA
	560	0.296	1.10	20	30	P6694-ND	3.76	3.08	2.16	1.51	ECO-S2AA561AA
	560	0.296	1.10	22	25	P6695-ND◆	2.84	2.34	1.64	1.14	ECO-S2AA561BA
	820	0.202	1.40	20	35	P6696-ND	4.36	3.58	2.51	1.75	ECO-S2AA821AA
	820	0.202	1.40	25	25	P6697-ND◆	3.38	2.77	1.94	1.35	ECO-S2AA821CA
	1000	0.182	1.70	25	30	P6699-ND◆	3.60	2.96	2.07	1.44	ECO-S2AA102CA
	1200	0.152	1.80	22	40	P6700-ND	4.05	3.33	2.33	1.62	ECO-S2AA122BA
	1200	0.152	1.80	30	25	P6701-ND	4.13	3.39	2.37	1.65	ECO-S2AA122DA
	1500	0.122	2.10	22	45	P6702-ND◆	4.49	3.69	2.58	1.80	ECO-S2AA152BA
	1500	0.122	2.10	35	25	P6712-ND◆	4.97	4.08	2.86	1.99	ECO-S2AA152EA
	1800	0.111	2.30	25	45	P6728-ND	4.70	3.86	2.70	1.88	ECO-S2AA182CA
	1800	0.111	2.30	35	30	P6806-ND◆	4.57	3.87	2.79	2.09	ECO-S2AA182EA
	2200	0.090	2.60	25	50	P6994-ND	4.52	3.83	2.76	2.07	ECO-S2AA222CA
	2200	0.090	2.60	35	30	P6995-ND◆	5.04	4.27	3.07	2.31	ECO-S2AA222EA
	2700	0.080	2.90	30	45	P6807-ND	5.26	4.46	3.21	2.41	ECO-S2AA272DA
	2700	0.080	2.90	35	35	P6808-ND◆	5.62	4.76	3.42	2.57	ECO-S2AA272EA
	3300	0.075	3.20	30	50	P6809-ND◆	6.04	5.12	3.69	2.77	ECO-S2AA332DA
	3300	0.075	3.20	35	40	P6810-ND◆	6.43	5.44	3.92	2.94	ECO-S2AA332EA
	3900	0.064	3.60	35	45	P6811-ND	6.33	5.45	4.00	3.15	ECO-S2AA392EA
	4700	0.053	3.80	35	50	P6812-ND◆	7.87	6.78	4.97	3.91	ECO-S2AA472EA
200	100	1.658	0.50	22	25	P7517-ND◆	2.79	2.24	1.53	1.00	ECO-S2DA101BA
	150	1.105	0.68	22	25	P7518-ND◆	3.07	2.46	1.68	1.10	ECO-S2DA151BA
	220	0.754	1.00	22	25	P6814-ND◆	3.38	2.71	1.85	1.21	ECO-S2DA221BA
	270	0.614	1.10	25	25	P6816-ND◆	3.31	2.72	1.91	1.33	ECO-S2DA271CA
	330	0.502	1.20	25	25	P6818-ND◆	3.55	2.91	2.04	1.42	ECO-S2DA331CA
	390	0.425	1.30	22	35	P6819-ND◆	3.61	2.96	2.07	1.45	ECO-S2DA391BA
	390	0.425	1.30	30	25	P6820-ND◆	4.02	3.30	2.31	1.61	ECO-S2DA391DA
	470	0.353	1.40	22	40	P6821-ND◆	3.88	3.18	2.23	1.56	ECO-S2DA471BA
	470	0.353	1.40	30	25	P6822-ND◆	4.33	3.56	2.49	1.74	ECO-S2DA471DA
	560	0.296	1.50	22	45	P6823-ND◆	4.21	3.46	2.42	1.69	ECO-S2DA561BA
	560	0.296	1.50	30	30	P6824-ND	4.63	3.80	2.66	1.86	ECO-S2DA561DA
	680	0.244	1.70	25	40	P6825-ND◆	4.78	3.93	2.75	1.92	ECO-S2DA681CA
	680	0.244	1.70	30	30	P6826-ND◆	5.10	4.18	2.93	2.04	ECO-S2DA681DA
	820	0.222	2.00	25	50	P6829-ND◆	4.66	3.95	2.85	2.14	ECO-S2DA821CA
	820	0.222	2.00	35	30	P6830-ND◆	5.17	4.38	3.15	2.37	ECO-S2DA821EA
	1000	0.199	2.20	30	45	P6831-ND◆	5.41	4.58	3.30	2.48	ECO-S2DA102DA
	1000	0.199	2.20	35	35	P6832-ND◆	5.85	4.95	3.57	2.68	ECO-S2DA102EA
	1200	0.166	2.30	30	50	P6833-ND◆	6.14	5.20	3.74	2.81	ECO-S2DA122DA
	1200	0.166	2.30	35	40	P6834-ND◆	6.53	5.53	3.98	2.99	ECO-S2DA122EA
	1500	0.144	2.50	35	50	P6835-ND◆	6.85	5.91	4.33	3.41	ECO-S2DA152EA
400	33	4.521	0.30	22	25	P7519-ND◆	3.17	2.54	1.74	1.14	ECO-S2GA330BA
	47	2.822	0.43	22	25	P7520-ND◆	3.45	2.77	1.90	1.24	ECO-S2GA470BA
	56	2.368	0.51	22	25	P6837-ND◆	3.16	2.60	1.82	1.27	ECO-S2GA560BA
	68	1.950	0.56	25	25	P6839-ND◆	3.42	2.81	1.97	1.37	ECO-S2GA680CA
	82	1.617	0.64	20	40	P6840-ND	4.56	3.74	2.62	1.83	ECO-S2GA820AA
	82	1.617	0.64	25	25	P6841-ND	3.67	3.01	2.11	1.47	ECO-S2GA820CA
	100	1.326	0.69	22	35	P6842-ND◆	3.95	3.24	2.27	1.58	ECO-S2GA101BA
	100	1.326	0.69	25	30	P6843-ND	3.96	3.25	2.28	1.59	ECO-S2GA101CA
	120	1.105	0.75	22	40	P6844-ND◆	4.26	3.49	2.45	1.71	ECO-S2GA121BA
	120	1.105	0.75	30	25	P6845-ND	4.54	3.72	2.61	1.82	ECO-S2GA121DA
	150	0.884	0.82	22	50	P6846-ND◆	4.85	3.98	2.79	1.94	ECO-S2GA151BA
	150	0.884	0.82	30	30	P6847-ND	5.03	4.13	2.89	2.01	ECO-S2GA151DA
	180	0.737	0.95	25	45	P6848-ND◆	5.33	4.37	3.06	2.13	ECO-S2GA181CA
	180	0.737	0.95	35	25	P6849-ND◆	5.14	4.36	3.14	2.35	ECO-S2GA181EA
	220	0.603	1.10	25	50	P6850-ND◆	5.21	4.41	3.18	2.38	ECO-S2GA221CA
	220	0.603	1.10	35	30	P6851-ND	5.68	4.81	3.46	2.60	ECO-S2GA221EA
	270	0.491	1.20	30	45	P6852-ND◆	6.04	5.12	3.69	2.77	ECO-S2GA271DA
	270	0.491	1.20	35	35	P6853-ND◆	6.40	5.42	3.90	2.93	ECO-S2GA271EA
	330	0.402	1.35	30	50	P6854-ND◆	7.01	5.94	4.28	3.21	ECO-S2GA331DA
	330	0.402	1.35	35	40	P6855-ND◆	7.39	6.25	4.50	3.38	ECO-S2GA331EA
	390	0.340	1.55	35	45	P6856-ND◆	7.35	6.34	4.64	3.65	ECO-S2GA391EA
	470	0.282	1.75	35	50	P6857-ND	8.59	7.41	5.43	4.27	ECO-S2GA471EA

TSHB Compact Size, Long Life and High Ripple Current 105°C, 3000 Hour Life

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm) D	Dim. (mm) L	Digi-Key Part No.	Price Each 1	10	50	200	Panasonic Part No.
200	390	0.510	1.30	22	30	P10106-ND◆	3.51	2.88	2.02	1.41	ECO-S2DB391BA
	390	0.510	1.30	25	25	P10107-ND◆	3.74	3.07	2.15	1.50	ECO-S2DB391CA
	470	0.423	1.40	22	35	P10108-ND◆	3.83	3.15	2.20	1.54	ECO-S2DB471BA
	470	0.423	1.40	25	30	P10109-ND◆	3.99	3.27	2.29	1.60	ECO-S2DB471CA
	560	0.355	1.50	30	25	P10110-ND	4.63	3.80	2.66	1.85	ECO-S2DB561DA
	820	0.263	2.00	25	45	P10111-ND	4.54	3.84	2.77	2.08	ECO-S2DB821CA
	820	0.263	2.00	35	25	P10112-ND◆	5.17	4.38	3.15	2.37	ECO-S2DB821EA
	1000	0.216	2.20	25	50	P10113-ND◆	5.19	4.39	3.16	2.37	ECO-S2DB102CA
	1000	0.216	2.20	35	30	P10114-ND◆	5.76	4.88	3.51	2.64	ECO-S2DB102EA
	1200	0.193	2.30	30	40	P10115-ND	5.68	4.81	3.46	2.60	ECO-S2DB122DA
	1200	0.193	2.30	35	35	P10116-ND◆	6.44	5.46	3.93	2.95	ECO-S2DB122EA
	1500	0.155	2.50	30	50	P10117-ND	7.00	5.93	4.27	3.20	ECO-S2DB152DA
	1500	0.155	2.50	35	40	P10118-ND◆	7.37	6.24	4.49	3.37	ECO-S2DB152EA
	1800	0.129	2.70	35	45	P10119-ND◆	7.42	6.40	4.69	3.69	ECO-S2DB182EA
	2200	0.105	2.90	35	50	P10120-ND◆	8.79	7.58	5.55	4.37	ECO-S2DB222EA
250	330	0.502	1.20	25	30	P10121-ND◆	4.25	3.49	2.45	1.70	ECO-S2EB331CA
	390	0.425	1.30	30	25	P10122-ND◆	4.90	4.02	2.81	1.96	ECO-S2EB391DA
	470	0.353	1.40	22	50	P10123-ND◆	5.11	4.19	2.94	2.05	ECO-S2EB471BA
	470	0.353	1.40	30	30	P10124-ND◆	4.57	3.87	2.79	2.09	ECO-S2EB471DA
	560	0.296	1.50	25	45	P10125-ND◆	4.82	4.09	2.94	2.21	ECO-S2EB561CA
	560	0.296	1.50	35	25	P10126-ND◆	5.45	4.61	3.32	2.49	ECO-S2EB561EA
	680	0.244	1.70	25	50	P10127-ND◆	5.55	4.70	3.39	2.54	ECO-S2EB681CA
	820	0.202	2.00	30	45	P10129-ND◆	6.41	5.43	3.91	2.93	ECO-S2EB821DA
	820	0.202	2.00	35	35	P10130-ND◆	6.77	5.73	4.13	3.10	ECO-S2EB821EA
	1000	0.199	2.20	30	50	P10131-ND◆	7.43	6.29	4.53	3.40	ECO-S2EB102DA
	1000	0.199	2.20	35	40	P10132-ND◆	7.82	6.63	4.77	3.58	ECO-S2EB102EA
250	1200	0.166	2.30	35	45	P10133-ND◆	6.57	5.66	4.98	3.92	ECO-S2EB122EA
	1500	0.144	2.50	35	50	P10134-ND◆	9.54	8.22	6.02	4.74	ECO-S2EB152EA
400	82	2.022	0.64	22	30	P10135-ND◆	3.59	2.95	2.07	1.44	ECO-S2GB820BA
	100	1.658	0.69	22	30	P10136-ND◆	3.93	3.23	2.26	1.58	ECO-S2GB101BA
	100	1.658	0.69	25	25	P10137-ND◆	4.00	3.29	2.30	1.60	ECO-S2GB101CA
	120	1.382	0.75	22	35	P10138-ND◆	4.29	3.52	2.47	1.72	ECO-S2GB121BA
	120	1.382	0.75	25	30	P10139-ND◆	4.29	3.52	2.46	1.72	ECO-S2GB121CA
	150	1.105	0.82	22	40	P10140-ND◆	4.82	3.95	2.77	1.93	ECO-S2GB151BA
	150	1.105	0.82	30	25	P10141-ND◆	5.11	4.19	2.93	2.05	ECO-S2GB151DA
	180	0.921	0.95	22	45	P10142-ND◆	4.53	3.84	2.77	2.08	ECO-S2GB181BA
	180	0.921	0.95	30	30	P10143-ND◆	4.74	4.01	2.89	2.17	ECO-S2GB181DA
	220	0.754	1.10	25	45	P10144-ND◆	5.13	4.34	3.13	2.35	ECO-S2GB221CA
	220	0.754	1.10	35	25	P10145-ND◆	5.77	4.89	3.52	2.64	ECO-S2GB221EA
	270	0.614	1.20	25	50	P10146-ND◆	5.92	5.02	3.61	2.71	ECO-S2GB271CA
	270	0.614	1.20	35	30	P10147-ND	6.39	5.41	3.90	2.92	ECO-S2GB271EA
	330	0.502	1.35	30	45	P10148-ND◆	6.29	5.43	3.98	3.13	ECO-S2GB331DA
	330	0.502	1.35	35	35	P10149-ND◆	6.63	5.72	4.19	3.30	ECO-S2GB331EA
	390	0.425	1.55	30	50	P10150-ND◆	7.19	6.20	4.54	3.57	ECO-S2GB391DA
	390	0.425	1.55	35	40	P10151-ND◆	7.54	6.50	4.77	3.75	ECO-S2GB391EA
	470	0.353	1.75	35	45	P10152-ND◆	8.37	7.22	5.29	4.16	ECO-S2GB471EA
	560	0.296	1.80	35	50	P10153-ND◆	8.83	7.79	5.82	4.82	ECO-S2GB561EA
450	82	2.022	0.56	22	30	P10154-ND◆	4.18	3.43	2.40	1.67	ECO-S2WB820BA
	100	1.658	0.64	22	35	P10155-ND◆	4.65	3.82	2.67	1.86	ECO-S2WB101BA
	100	1.658	0.64	25	30	P10156-ND◆	4.56	3.74	2.62	1.83	ECO-S2WB101CA
	120	1.382	0.72	22	40	P10157-ND◆	5.08	4.17	2.92	2.04	ECO-S2WB121BA
	120	1.382	0.72	25	35	P10158-ND◆	5.01	4.11	2.88	2.01	ECO-S2WB121CA
	150	1.105	0.79	22	50	P10159-ND	5.86	4.80	3.36	2.34	ECO-S2WB151BA
	150	1.105	0.79	30	30	P10160-ND◆	5.15	4.37	3.14	2.36	ECO-S2WB151DA
	180	0.921	0.87	25	45	P10161-ND◆	5.57	4.72	3.40	2.55	ECO-S2WB181CA
	180	0.921	0.87	30	35	P10162-ND	5.76	4.88	3.51	2.64	ECO-S2WB181DA
	220	0.754	1.00	25	50	P10163-ND◆	6.48	5.49	3.95	2.96	ECO-S2WB221CA
	220	0.754	1.00	30	40	P10164-ND	6.57	5.56	4.01	3.01	ECO-S2WB221DA
	270	0.614	1.19	30	45	P10165-ND◆	7.58	6.42	4.62	3.47	ECO-S2WB271DA
	270	0.614	1.19	35	35	P10166-ND◆	7.95	6.73	4.85	3.64	ECO-S2WB271EA
	330	0.502	1.38	30	50	P10167-ND◆	8.12	7.01	5.13	4.04	ECO-S2WB331DA
	330	0.502	1.38	35	40	P10168-ND◆	8.37	7.22	5.29	4.16	ECO-S2WB331EA
	390	0.425	1.55	35	45	P10169-ND◆	9.36	8.07	5.91	4.65	ECO-S2WB391EA
	470	0.353	1.74	35	50	P10170-ND	12.55	11.06	9.93	8.22	ECO-S2WB471EA

TSHC Highly Miniaturized Version 105°C, 2000 Hour Life, 4.0mm Pins — RoHS Compliant

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm) D	Dim. (mm) L	Digi-Key Part No.	Price Each 1	10	50	200	Panasonic Part No.
160	470	0.423	1.40	22	25	P13944-ND	3.01	2.41	1.98	1.30	EET-HC2C471HA
	560	0.355	1.50	22	30	P13945-ND	3.20	2.57	2.11	1.38	EET-HC2C561HA
	680	0.293	1.70	22	30	P13946-ND	3.44	2.76	2.26	1.48	EET-HC2C681HA
	680	0.293	1.70	25	25	P13947-ND	3.07	2.52	2.12	1.48	EET-HC2C681JA
	820	0.243	2.00	22	35	P13948-ND	3.55	2.91	2.45	1.71	EET-HC2C821HA
	820	0.243	2.00	25	30	P13949-ND	3.32	2.73	2.29	1.60	EET-HC2C821JA
	1000	0.199	2.20	22	40	P13950-ND	3.58	2.94	2.47	1.72	EET-HC2C102HA
	1000	0.199	2.20	25	35	P13951-ND	3.62	2.98	2.50	1.74	EET-HC2C102JA
	1000	0.216	2.20	30	25	P13952-ND	4.35	3.57	3.00	2.09	EET-HC2C102KA
	1200	0.166	2.30	22	45	P13953-ND	3.94	3.23	2.72	1.89	EET-HC2C122HA
	1200	0.166	2.30	25	40	P13954-ND	4.04	3.32	2.79	1.94	EET-HC2C122JA
	1200	0.166	2.30	30	30	P13955-ND	4.95	4.06	3.41	2.38	EET-HC2C122KA
	1200	0.180	2.30	35	25	P13956-ND	5.47	4.49	3.77	2.63	EET-HC2C122LA
	1500	0.133	2.50	25	45	P13957-ND	4.55	3.73	3.14	2.19	EET-HC2C152JA
	1500	0.133	2.50	30	35	P13958-ND	5.23	4.29	3.61	2.51	EET-HC2C152KA
	1500	0.155	2.50	35	30	P13959-ND	5.74	4.71	3.96	2.76	EET-HC2C152LA
	1800	0.111	2.70	25	50	P13960-ND	5.14	4.22	3.54	2.47	EET-HC2C182JA
	1800	0.111	2.70	30	40	P13961-ND	5.76	4.72	3.97	2.77	EET-HC2C182KA
	1800	0.120	2.70	35	30	P13962-ND	5.33	4.52	3.90	2.93	EET-HC2C182LA
	2200	0.090	2.90	30	45	P13963-ND	5.56	4.71	4.07	3.05	EET-HC2C222KA
	2200	0.098	2.90	35	35	P13964-ND	6.01	5.09	4.40	3.30	EET-HC2C222LA
	2700	0.080	3.10	30	50	P13965-ND	6.35	5.38	4.64	3.48	EET-HC2C272KA
	2700	0.086	3.10	35	40	P13966-ND	6.97	5.90	5.10	3.82	EET-HC2C272LA
	3300	0.070	3.30	35	50	P13967-ND	7.96	6.74	5.82	4.37	EET-HC2C332LA
200	390	0.510	1.31	22	25	P13968-ND	3.21	2.58	2.12	1.38	EET-HC2D391HA
	470	0.423	1.45	22	30	P13969-ND	3.47	2.78	2.28	1.49	EET-HC2D471HA
	470	0.423	1.45	25	25	P13970-ND	3.53	2.89	2.43	1.70	EET-HC2D471JF
	560	0.355	1.67	22	30	P13971-ND	3.25	2.67	2.24	1.56	EET-HC2D561HA
	680	0.293	1.75	22	40	P13972-ND	3.56	2.92	2.45	1.71	EET-HC2D681HA
	680	0.293	1.75	25	30	P13973-ND	3.60	2.96	2.49	1.73	EET-HC2D681JA
	820	0.243	2.04	22	45	P13974-ND	3.93	3.23	2.71	1.89	EET-HC2D821HA
	820	0.243	2.04	25	35	P13975-ND	3.95	3.24	2.72	1.90	EET-HC2D821JA
	820	0.243	2.04	30	25	P13976-ND	4.67	3.83	3.22	2.24	EET-HC2D821KA
	1000	0.199	2.30	22	50	P13977-ND	4.45	3.65	3.07	2.14	EET-HC2D102HA
	1000	0.199	2.30	25	40	P13978-ND	5.13	4.21	3.54	2.47	EET-HC2D102JF
	1000	0.199	2.30	25	45	P13979-ND	4.44	3.64	3.06	2.13	EET-HC2D102JA
	1000	0.199	2.30	30	30	P13980-ND	5.13	4.21	3.53	2.46	EET-HC2D102KA
	1000	0.216	2.30	35	25	P13981-ND	5.49	4.51	3.79	2.64	EET-HC2D102LA
	1200	0.166	2.65	25	45	P13982-ND	5.77	4.73	3.97	2.77	EET-HC2D122JF
	1200	0.166	2.65	25	50	P13983-ND	5.00	4.10	3.45	2.40	EET-HC2D122JA
	1200	0.166	2.65	30	35	P13984-ND	5.65	4.64	3.90	2.72	EET-HC2D122KA
	1200	0.180	2.65	35	30	P13985-ND	6.01	4.93	4.15	2.89	EET-HC2D122LA
	1500	0.133	2.80	30	40	P13986-ND	5.46	4.63	4.00	3.00	EET-HC2D152KA
	1500	0.144	2.80	35	30	P13987-ND	5.82	4.93	4.25	3.19	EET-HC2D152LA
	1800	0.111	3.08	30	45	P13988-ND	6.12	5.18	4.48	3.36	EET-HC2D182KA
	1800	0.129	3.08	35	40	P13989-ND	6.52	5.53	4.77	3.58	EET-HC2D182LA
	2200	0.090	3.48	30	50	P13990-ND	7.08	6.00	5.18	3.89	EET-HC2D222KA
	2200	0.098	3.48	35	45	P13991-ND	7.47	6.32	5.46	4.10	EET-HC2D222LA
250	270	0.614	1.10	22	25	P13992-ND	3.22	2.58	2.12	1.39	EET-HC2E271HA
	330	0.502	1.20	22	30	P13993-ND	3.50	2.80	2.30	1.50	EET-HC2E331HA
	330	0.502	1.20	25	25	P13994-ND	3.10	2.54	2.14	1.49	EET-HC2E331JA
	390	0.425	1.20	22	30	P13995-ND	3.85	3.16	2.66	1.85	EET-HC2E391HF
	390	0.425	1.30	22	35	P13996-ND	3.28	2.70	2.27	1.58	EET-HC2E391HA
	390	0.425	1.30	25	25	P13997-ND	3.32	2.73	2.29	1.60	EET-HC2E391JA
	470	0.353	1.20	22	35	P13998-ND	4.16	3.42	2.87	2.00	EET-HC2E471HF
	470	0.353	1.40	22	40	P13999-ND	3.57	2.93	2.46	1.72	EET-HC2E471HA
	470	0.353	1.40	25	30	P14000-ND	3.64	2.99	2.51	1.75	EET-HC2E471JA
	470	0.353	1.40	30	25	P14001-ND	4.31	3.53	2.97	2.07	EET-HC2E471KA

◆ ***RoHS Compliant***

(Continued)

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
250	560	0.296	1.40	22	40	P14002-ND	4.53	3.71	3.12	2.17	EET-HC2E561HF
	560	0.296	1.50	22	45	P14003-ND	3.93	3.22	2.71	1.89	EET-HC2E561HA
	560	0.296	1.50	25	35	P14004-ND	3.96	3.25	2.73	1.90	EET-HC2E561JA
	560	0.296	1.50	30	25	P14005-ND	4.68	3.84	3.23	2.25	EET-HC2E561KA
	680	0.244	1.50	22	45	P14006-ND	5.06	4.15	3.49	2.43	EET-HC2E681HF
	680	0.244	1.70	22	50	P14007-ND	4.41	3.62	3.04	2.12	EET-HC2E681HA
	680	0.244	1.70	25	40	P14008-ND	4.40	3.61	3.04	2.12	EET-HC2E681JA
	680	0.244	1.70	30	30	P14009-ND	5.09	4.18	3.51	2.45	EET-HC2E681KA
	680	0.244	1.70	35	25	P14010-ND	5.82	4.78	4.01	2.80	EET-HC2E681LA
	820	0.202	2.00	25	45	P14011-ND	4.94	4.05	3.41	2.37	EET-HC2E821JA
	820	0.202	2.00	30	35	P14012-ND	5.62	4.61	3.88	2.70	EET-HC2E821KA
	820	0.202	2.00	35	30	P14013-ND	5.33	4.52	3.90	2.93	EET-HC2E821LA
	1000	0.166	2.20	25	50	P14014-ND	5.81	4.92	4.25	3.19	EET-HC2E102JF
	1000	0.166	2.20	30	40	P14015-ND	5.36	4.54	3.92	2.94	EET-HC2E102KA
	1000	0.166	2.20	35	30	P14016-ND	6.47	5.48	4.73	3.55	EET-HC2E102LA
	1200	0.138	2.30	30	45	P14017-ND	6.03	5.10	4.41	3.31	EET-HC2E122KA
	1200	0.138	2.30	35	35	P14018-ND	7.46	6.31	5.45	4.09	EET-HC2E122LA
	1500	0.111	2.50	35	45	P14019-ND	7.82	6.62	5.72	4.29	EET-HC2E152LA
	1800	0.092	2.50	35	45	P14020-ND	8.79	7.58	6.66	5.24	EET-HC2E182LF
	1800	0.092	2.70	35	50	P14021-ND	9.02	7.64	6.60	4.95	EET-HC2E182LA
350	120	1.382	0.75	22	25	P14022-ND	3.46	2.77	2.28	1.49	EET-HC2V121HA
	150	1.105	0.82	22	30	P14023-ND	3.33	2.73	2.30	1.60	EET-HC2V151HA
	180	0.921	0.90	22	30	P14024-ND	3.98	3.26	2.74	1.91	EET-HC2V181HA
	180	0.921	0.90	25	25	P14025-ND	4.03	3.31	2.78	1.94	EET-HC2V181JA
	220	0.754	1.00	22	35	P14026-ND	4.09	3.36	2.82	1.97	EET-HC2V221HA
	220	0.754	1.00	25	30	P14027-ND	4.11	3.37	2.83	1.98	EET-HC2V221JA
	270	0.614	1.10	22	40	P14028-ND	5.11	4.19	3.52	2.46	EET-HC2V271HF
	270	0.614	1.10	25	35	P14029-ND	4.58	3.76	3.16	2.20	EET-HC2V271JA
	270	0.614	1.10	30	25	P14030-ND	5.39	4.42	3.71	2.59	EET-HC2V271KA
	330	0.502	1.20	22	45	P14031-ND	5.23	4.29	3.61	2.51	EET-HC2V331HF
	330	0.502	1.20	25	40	P14032-ND	5.91	4.85	4.07	2.84	EET-HC2V331JA
	330	0.502	1.20	30	30	P14033-ND	5.67	4.80	4.15	3.11	EET-HC2V331KA
	390	0.425	1.30	25	45	P14034-ND	5.81	4.77	4.01	2.79	EET-HC2V391JA
	390	0.425	1.30	30	30	P14035-ND	5.94	5.03	4.35	3.26	EET-HC2V391KF
	390	0.425	1.30	30	35	P14036-ND	5.54	4.69	4.05	3.04	EET-HC2V391KA
	470	0.353	1.40	25	50	P14037-ND	5.80	4.91	4.24	3.18	EET-HC2V471JA
	470	0.353	1.40	30	35	P14038-ND	6.18	5.23	4.52	3.39	EET-HC2V471KF
	470	0.353	1.40	35	30	P14039-ND	6.40	5.42	4.68	3.51	EET-HC2V471LA
	560	0.296	1.50	30	40	P14040-ND	7.43	6.29	5.43	4.08	EET-HC2V561KF
	560	0.296	1.50	30	45	P14041-ND	7.00	5.93	5.12	3.84	EET-HC2V561KA
	560	0.296	1.50	35	35	P14042-ND	7.16	6.07	5.24	3.93	EET-HC2V561LA
	680	0.244	1.70	30	45	P14043-ND	8.58	7.26	6.27	4.71	EET-HC2V681KF
	680	0.244	1.70	30	50	P14044-ND	8.12	6.88	5.94	4.46	EET-HC2V681KA
	680	0.244	1.70	35	40	P14045-ND	8.16	6.91	5.97	4.48	EET-HC2V681LA
	820	0.202	1.90	35	45	P14046-ND	8.45	7.29	6.41	5.04	EET-HC2V821LA
	1000	0.202	1.90	35	50	P14047-ND	9.98	8.60	7.56	5.95	EET-HC2V102LF
400	100	1.824	0.70	22	25	P14048-ND	3.07	2.52	2.12	1.48	EET-HC2G101HA
	120	1.520	0.75	22	30	P14049-ND	3.34	2.74	2.30	1.61	EET-HC2G121HA
	150	1.216	0.88	22	30	P14050-ND	3.75	3.08	2.59	1.80	EET-HC2G151HA
	150	1.216	0.88	25	25	P14051-ND	4.24	3.48	2.92	2.04	EET-HC2G151JF
	180	1.013	0.95	22	35	P14052-ND	4.16	3.42	2.87	2.00	EET-HC2G181HA
	180	1.013	0.95	25	30	P14053-ND	4.19	3.44	2.89	2.01	EET-HC2G181JA
	220	0.829	1.00	22	40	P14054-ND	4.61	3.78	3.18	2.21	EET-HC2G221HF
	220	0.829	1.10	22	45	P14055-ND	5.09	4.18	3.51	2.45	EET-HC2G221HA
	220	0.829	1.10	25	35	P14056-ND	4.63	3.80	3.19	2.22	EET-HC2G221JA
	220	0.829	1.10	30	25	P14057-ND	5.03	4.12	3.46	2.41	EET-HC2G221KA
	270	0.675	1.10	22	45	P14058-ND	5.89	4.83	4.06	2.83	EET-HC2G271HF
	270	0.675	1.22	22	50	P14059-ND	5.31	4.36	3.66	2.55	EET-HC2G271HA
	270	0.675	1.22	25	40	P14060-ND	5.36	4.40	3.70	2.58	EET-HC2G271JA
	270	0.675	1.22	30	30	P14061-ND	5.99	4.92	4.13	2.88	EET-HC2G271KA
	270	0.675	1.22	35	25	P14062-ND	5.30	4.49	3.88	2.91	EET-HC2G271LA
	330	0.553	1.44	25	45	P14063-ND	5.47	4.64	4.01	3.01	EET-HC2G331JA
	330	0.553	1.44	30	30	P14064-ND	5.98	5.06	4.37	3.28	EET-HC2G331KF
	330	0.553	1.44	30	35	P14065-ND	5.55	4.70	4.06	3.04	EET-HC2G331KA
	330	0.553	1.44	35	30	P14066-ND	5.92	5.01	4.33	3.25	EET-HC2G331LA
	390	0.468	1.55	25	50	P14067-ND	6.00	5.08	4.39	3.29	EET-HC2G391JA
	390	0.468	1.40	30	35	P14068-ND	6.64	5.62	4.86	3.64	EET-HC2G391KF
	390	0.468	1.55	30	40	P14069-ND	6.43	5.45	4.71	3.53	EET-HC2G391KA
	390	0.468	1.55	35	30	P14070-ND	6.48	5.49	4.74	3.56	EET-HC2G391LA
	470	0.388	1.68	30	45	P14071-ND	7.08	6.00	5.18	3.89	EET-HC2G471KA
	470	0.388	1.68	35	35	P14072-ND	7.54	6.38	5.51	4.14	EET-HC2G471LA
	560	0.326	1.90	30	45	P14073-ND	8.81	7.46	6.45	4.84	EET-HC2G561KF
	560	0.326	1.90	30	50	P14074-ND	8.39	7.10	6.14	4.60	EET-HC2G561KA
	560	0.326	1.90	35	40	P14075-ND	8.53	7.22	6.24	4.68	EET-HC2G561LA
	680	0.268	2.12	35	45	P14076-ND	8.91	7.68	6.75	5.31	EET-HC2G681LA
	820	0.202	2.30	35	50	P14077-ND	11.03	9.51	8.36	6.58	EET-HC2G821LA
420	120	1.520	0.74	22	30	P14078-ND	4.06	3.33	2.80	1.95	EET-HC2S121HA
	120	1.520	0.74	25	25	P14079-ND	4.14	3.40	2.86	1.99	EET-HC2S121JA
	150	1.216	0.84	22	35	P14080-ND	4.09	3.35	2.82	1.96	EET-HC2S151HA
	180	1.103	0.91	22	40	P14081-ND	4.93	4.05	3.40	2.37	EET-HC2S181HA
	180	1.103	0.91	25	30	P14082-ND	5.06	4.15	3.49	2.43	EET-HC2S181JA
	220	0.829	1.05	22	45	P14083-ND	5.53	4.54	3.81	2.66	EET-HC2S221HA
	220	0.829	1.05	25	35	P14084-ND	5.57	4.57	3.84	2.68	EET-HC2S221JA
	220	0.829	1.05	30	25	P14085-ND	5.27	4.47	3.86	2.89	EET-HC2S221KA
	270	0.675	1.20	22	50	P14086-ND	5.35	4.53	3.91	2.94	EET-HC2S271HA
	270	0.675	1.20	25	40	P14087-ND	5.36	4.54	3.92	2.94	EET-HC2S271JA
	270	0.675	1.20	30	30	P14088-ND	6.10	5.16	4.46	3.35	EET-HC2S271KA
	270	0.675	1.20	35	25	P14089-ND	6.04	5.12	4.42	3.32	EET-HC2S271LA
	330	0.553	1.42	25	50	P14090-ND	6.61	5.59	4.83	3.63	EET-HC2S331JA
	330	0.553	1.42	30	35	P14091-ND	6.58	5.57	4.82	3.61	EET-HC2S331KA
	330	0.553	1.42	35	35	P14092-ND	6.93	5.87	5.07	3.80	EET-HC2S331LA
	390	0.468	1.55	30	40	P14093-ND	7.32	6.20	5.35	4.02	EET-HC2S391KA
	390	0.468	1.55	35	35	P14094-ND	7.68	6.51	5.62	4.22	EET-HC2S391LA
	470	0.388	1.71	30	45	P14095-ND	8.79	7.44	6.43	4.82	EET-HC2S471KA
	470	0.388	1.71	35	35	P14096-ND	8.66	7.33	6.33	4.75	EET-HC2S471LA
	560	0.326	1.90	30	50	P14097-ND	8.63	7.44	6.54	5.15	EET-HC2S561KA
	560	0.326	1.90	35	45	P14098-ND	9.00	7.76	6.82	5.37	EET-HC2S561LA
	680	0.268	2.10	35	50	P14099-ND	10.89	9.39	8.26	6.50	EET-HC2S681LA
450	100	1.824	0.64	22	30	P14100-ND	3.60	2.96	2.49	1.73	EET-HC2W101HA
	100	1.824	0.64	25	25	P14101-ND	3.68	3.02	2.54	1.77	EET-HC2W101JA
	120	1.520	0.72	22	35	P14102-ND	3.97	3.25	2.73	1.91	EET-HC2W121HA
	120	1.520	0.72	25	30	P14103-ND	4.02	3.30	2.77	1.93	EET-HC2W121JA
	150	1.216	0.79	22	40	P14104-ND	4.50	3.69	3.10	2.16	EET-HC2W151HA
	150	1.216	0.79	25	30	P14105-ND	4.54	3.72	3.13	2.18	EET-HC2W151JA
	150	1.216	0.79	30	25	P14106-ND	5.29	4.34	3.64	2.54	EET-HC2W151KA
	180	1.013	0.87	22	45	P14107-ND	5.02	4.12	3.46	2.41	EET-HC2W181HA
	180	1.013	0.79	25	35	P14108-ND	5.61	4.60	3.86	2.69	EET-HC2W181JF
	180	1.013	0.87	25	40	P14109-ND	5.08	4.17	3.50	2.44	EET-HC2W181JA
	180	1.013	0.87	30	30	P14110-ND	5.80	4.76	4.00	2.78	EET-HC2W181KA
	220	0.829	0.90	22	50	P14111-ND	5.37	4.55	3.93	2.95	EET-HC2W221HA
	220	0.829	1.00	25	45	P14112-ND	5.76	4.73	3.97	2.77	EET-HC2W221JA
	220	0.829	1.00	30	30	P14113-ND	5.35	4.53	3.91	2.94	EET-HC2W221KA
	220	0.829	1.00	35	25	P14114-ND	5.73	4.85	4.19	3.15	EET-HC2W221LA
	270	0.675	1.19	25	50	P14115-ND	5.77	4.88	4.22	3.17	EET-HC2W271JA
	270	0.675	1.07	30	35	P14116-ND	6.59	5.58	4.82	3.62	EET-HC2W271KF
	270	0.675	1.19	30	40	P14117-ND	6.13	5.19	4.48	3.36	EET-HC2W271KA
	270	0.675	1.19	35	30	P14118-ND	6.46	5.47	4.73	3.55	EET-HC2W271LA
	330	0.553	1.24	30	40	P14119-ND	7.49	6.35	5.48	4.11	EET-HC2W331KF
	330	0.553	1.38	30	45	P14120-ND	7.18	6.08	5.25	3.94	EET-HC2W331KA
	330	0.553	1.38	35	35	P14121-ND	7.16	6.07	5.24	3.93	EET-HC2W331LA
	390	0.468	1.39	30	45	P14122-ND	8.96	7.58	6.55	4.91	EET-HC2W391KF
	390	0.468	1.55	30	50	P14123-ND	8.19	6.93	5.99	4.49	EET-HC2W391KA
	390	0.468	1.55	35	40	P14124-ND	8.24	6.98	6.03	4.52	EET-HC2W391LA
	470	0.388	1.74	35	45	P14125-ND	8.51	7.34	6.45	5.07	EET-HC2W471LA
	560	0.326	1.90	35	50	P14126-ND	9.91	8.54	7.51	5.91	EET-HC2W561LA
TSHC Highly Miniaturized Version 105°C, 2000 Hour Life, 6.3mm Pins											
160	470	0.423	1.40	22	25	P11709-ND◆	3.02	2.42	1.99	1.30	EET-HC2C471BA
	560	0.355	1.50	22	30	P11710-ND◆	3.21	2.57	2.12	1.38	EET-HC2C561BA
	680	0.293	1.70	22	30	P11711-ND	3.45	2.76	2.27	1.48	EET-HC2C681BA
	680	0.293	1.70	25	25	P11712-ND◆	3.08	2.53	2.13	1.48	EET-HC2C681CA
	820	0.243	2.00	22	35	P11713-ND	3.56	2.92	2.45	1.71	EET-HC2C821BA
	820	0.243	2.00	25	30	P11714-ND◆	3.33	2.73	2.30	1.60	EET-HC2C821CA
	1000	0.199	2.20	22	40	P11696-ND◆	3.59	2.95	2.48	1.73	EET-HC2C102BA
	1000	0.199	2.20	25	35	P11697-ND◆	3.64	2.98	2.51	1.75	EET-HC2C102CA
	1000	0.216	2.20	30	25	P11698-ND◆	4.36	3.58	3.01	2.09	EET-HC2C102DA
	1500	0.133	2.50	25	45	P11699-ND◆	4.56	3.74	3.15	2.19	EET-HC2C152CA
	1500	0.133	2.50	30	35	P11700-ND	5.25	4.30	3.62	2.52	EET-HC2C152DA
	1800	0.111	2.70	25	50	P11701-ND◆	5.15	4.23	3.55	2.48	EET-HC2C182CA
	1800	0.111	2.70	30	40	P11702-ND◆	5.77	4.74	3.98	2.77	EET-HC2C182DA
	1800	0.120	2.70	35	30	P11703-ND◆	5.35	4.53	3.91	2.93	EET-HC2C182EA
	2200	0.090	2.90	30	45	P11704-ND◆	5.58	4.72	4.08	3.06	EET-HC2C222DA
	2200	0.098	2.90	35	35	P11705-ND◆	6.03	5.11	4.41	3.31	EET-HC2C222EA
	2700	0.080	3.10	30	50	P11706-ND◆	6.37	5.39	4.66	3.49	EET-HC2C272DA
	2700	0.086	3.10	35	40	P11707-ND	6.99	5.92	5.11	3.84	EET-HC2C272EA
	3300	0.070	3.30	35	50	P11708-ND◆	7.98	6.76	5.84	4.38	EET-HC2C332EA
200	390	0.510	1.31	22	25	P11728-ND◆	3.22	2.58	2.12	1.39	EET-HC2D391BA
	470	0.423	1.45	22	30	P11729-ND◆	3.48	2.78	2.29	1.49	EET-HC2D471BA
	560	0.355	1.67	22	30	P11730-ND◆	3.26	2.68	2.25	1.57	EET-HC2D561BA
	680	0.293	1.75	22	40	P11731-ND◆	3.57	2.93	2.46	1.71	EET-HC2D681BA
	680	0.293	1.75	25	30	P11732-ND◆	3.61	2.97	2.49	1.74	EET-HC2D681CA
	820	0.243	2.04	22	45	P11733-ND◆	3.94	3.23	2.72	1.89	EET-HC2D821BA
	820	0.243	2.04	25	35	P11734-ND◆	3.96	3.25	2.73	1.90	EET-HC2D821CA
	820	0.243	2.04	30	25	P11735-ND◆	4.68	3.84	3.23	2.25	EET-HC2D821DA
	1000	0.199	2.07	25	40	P13233-ND◆	4.39	3.80	3.21	2.41	EET-HC2D102CF
	1000	0.199	2.30	22	50	P11715-ND◆	4.46	3.66	3.07	2.14	EET-HC2D102BA
	1000	0.199	2.30	25	45	P11716-ND◆	4.45	3.65	3.07	2.14	EET-HC2D102CA
	1000	0.199	2.30	30	30	P11717-ND◆	5.14	4.22	3.54	2.47	EET-HC2D102DA
	1000	0.216	2.30	35	25	P11718-ND◆	5.51	4.52	3.80	2.65	EET-HC2D102EA
	1200	0.166	2.38	25	45	P13234-ND◆	4.93	4.27	3.61	2.71	EET-HC2D122CF
	1200	0.166	2.65	25	50	P11719-ND	5.01	4.11	3.46	2.41	EET-HC2D122CA
	1200	0.166	2.65	30	35	P11720-ND◆	5.67	4.65	3.91	2.72	EET-HC2D122DA
	1200	0.180	2.65	35	30	P11721-ND	6.03	4.95	4.16	2.90	EET-HC2D122EA
	1500	0.133	2.80	30	40	P11722-ND◆	5.48	4.64	4.01	3.01	EET-HC2D152DA
	1500	0.144	2.80	35	30	P11723-ND◆	5.83	4.94	4.27	3.20	EET-HC2D152EA
	1800	0.111	3.08	30	45	P11724-ND◆	6.14	5.20	4.49	3.37	EET-HC2D182DA
	1800	0.129	3.08	35	40	P11725-ND	6.54	5.54	4.79	3.59	EET-HC2D182EA
	2200	0.090	3.48	30	50	P11726-ND◆	7.11	6.02	5.20	3.90	EET-HC2D222DA
	2200	0.098	3.48	35	45	P11727-ND◆	7.49	6.34	5.48	4.11	EET-HC2D222EA
250	270	0.614	1.10	22	25	P11740-ND◆	3.23	2.59	2.13	1.39	EET-HC2E271BA
	330	0.502	1.20	22	30	P11741-ND◆	3.06	2.51	2.11	1.47	EET-HC2E331BA
	330	0.502	1.20	25	25	P11742-ND◆	3.10	2.55	2.14	1.49	EET-HC2E331CA
	390	0.425	1.20	22	30	P13235-ND◆	3.29	2.86	2.41	1.81	EET-HC2E391BF
	390	0.425	1.30	22	35	P11743-ND◆	3.29	2.70	2.27	1.58	EET-HC2E391BA
	390	0.425	1.30	25	25	P11744-ND◆	3.33	2.73	2.30	1.60	EET-HC2E391CA
	470	0.353	1.20	22	35	P13236-ND◆	3.56	3.08	2.60	1.95	EET-HC2E471BF
	470	0.353	1.40	22	40	P11745-ND	3.58	2.94	2.47	1.72	EET-HC2E471BA
	470	0.353	1.40	25	30	P11746-ND◆	3.65	3.00	2.52	1.76	EET-HC2E471CA
	470	0.353	1.40	30	25	P11747-ND◆	4.32	3.54	2.98	2.08	EET-HC2E471DA
	560	0.296	1.40	22	40	P13237-ND◆	3.87	3.35	2.83	2.13	EET-HC2E561BF
	560	0.296	1.50	22	45	P11748-ND◆	3.93	3.23	2.71	1.89	EET-HC2E561BA
	560	0.296	1.50	25	35	P11749-ND◆	3.97	3.26	2.74	1.91	EET-HC2E561CA
	560	0.296	1.50	30	25	P11750-ND◆	4.70	3.85	3.24	2.26	EET-HC2E561DA
	680	0.244	1.50	22	45	P13238-ND◆	4.32	3.75	3.16	2.37	EET-HC2E681BF
	680	0.244	1.70	22	50	P11751-ND	4.42	3.63	3.05	2.13	EET-HC2E681BA
	680	0.244	1.70	25	40	P11752-ND◆	4.42	3.62	3.05	2.12	EET-HC2E681CA
	680	0.244	1.70	30	30	P11753-ND◆	5.10	4.19	3.52	2.45	EET-HC2E681DA
	820	0.202	2.00	25	45	P11754-ND◆	4.96	4.07	3.42	2.38	EET-HC2E821CA
	820	0.202	2.00	30	35	P11755-ND◆	5.64	4.63	3.89	2.71	EET-HC2E821DA
	820	0.202	2.00	35	30	P11756-ND	5.35	4.53	3.91	2.94	EET-HC2E821EA
	1000	0.166	2.20	25	50	P13239-ND◆	5.83	5.05	4.26	3.20	EET-HC2E102CF
	1000	0.166	2.20	35	30	P13240-ND◆	6.49	5.62	4.75	3.56	EET-HC2E102EA
	1000	0.166	2.20	30	40	P11736-ND◆	5.37	4.55	3.93	2.95	EET-HC2E102DA
	1200	0.138	2.30	35	35	P13241-ND◆	7.48	6.48	5.47	4.10	EET-HC2E122EA
	1200	0.138	2.30	30	45	P11737-ND◆	6.05	5.12	4.42	3.32	EET-HC2E122DA

◆ **RoHS Compliant**

(Continued)

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
250	1500	0.111	2.50	35	45	P11738-ND◆	7.84	6.64	5.74	4.30	EET-HC2E152EA
	1800	0.092	2.50	35	45	P13242-ND◆	9.75	8.44	7.13	5.35	EET-HC2E182EF
	1800	0.092	2.70	35	50	P11739-ND◆	8.18	7.05	6.20	4.88	EET-HC2E182EA
350	120	1.382	0.75	22	25	P11780-ND◆	3.47	2.78	2.29	1.49	EET-HC2V121BA
	150	1.105	0.82	22	30	P11781-ND◆	3.34	2.74	2.30	1.60	EET-HC2V151BA
	180	0.921	0.90	22	30	P11782-ND◆	3.99	3.27	2.75	1.92	EET-HC2V181BA
	180	0.921	0.90	25	25	P11783-ND◆	4.04	3.32	2.79	1.94	EET-HC2V181CA
	220	0.754	1.00	22	35	P11784-ND◆	4.11	3.37	2.83	1.97	EET-HC2V221BA
	220	0.754	1.00	25	30	P11785-ND	4.12	3.38	2.84	1.98	EET-HC2V221CA
	270	0.614	1.10	25	35	P11786-ND◆	4.59	3.77	3.17	2.21	EET-HC2V271CA
	270	0.614	1.10	30	25	P11787-ND◆	5.40	4.43	3.72	2.59	EET-HC2V271DA
	330	0.502	1.20	25	40	P11788-ND◆	5.25	4.31	3.62	2.52	EET-HC2V331CA
	330	0.502	1.20	30	30	P11789-ND◆	5.93	4.86	4.09	2.85	EET-HC2V331DA
	390	0.425	1.30	25	45	P11790-ND	5.83	4.78	4.02	2.80	EET-HC2V391CA
	390	0.425	1.30	30	35	P11791-ND◆	5.56	4.71	4.07	3.05	EET-HC2V391DA
	470	0.353	1.40	25	50	P11792-ND◆	5.82	4.93	4.26	3.19	EET-HC2V471CA
	470	0.353	1.40	35	30	P11793-ND◆	6.42	5.43	4.69	3.52	EET-HC2V471EA
	560	0.296	1.50	30	45	P11794-ND	7.02	5.94	5.13	3.85	EET-HC2V561DA
	560	0.296	1.50	35	35	P11795-ND◆	7.18	6.08	5.25	3.94	EET-HC2V561EA
	680	0.244	1.70	30	50	P11796-ND	8.15	6.90	5.96	4.47	EET-HC2V681DA
	680	0.244	1.70	35	40	P11797-ND	8.19	6.93	5.99	4.49	EET-HC2V681EA
	820	0.202	1.90	35	45	P11798-ND◆	8.48	7.31	6.43	5.06	EET-HC2V821EA
400	100	1.824	0.70	22	25	P11757-ND◆	3.08	2.53	2.12	1.48	EET-HC2G101BA
	120	1.520	0.75	22	30	P11758-ND	3.35	2.75	2.31	1.61	EET-HC2G121BA
	150	1.216	0.88	22	30	P11759-ND◆	3.76	3.09	2.59	1.81	EET-HC2G151BA
	180	1.013	0.95	22	35	P11760-ND◆	4.17	3.42	2.88	2.01	EET-HC2G181BA
	180	1.013	0.95	25	30	P11761-ND◆	4.20	3.44	2.89	2.02	EET-HC2G181CA
	220	0.829	1.00	22	40	P13243-ND◆	4.35	3.77	3.19	2.39	EET-HC2G221BF
	220	0.829	1.10	22	45	P11762-ND◆	4.62	3.79	3.18	2.22	EET-HC2G221BA
	220	0.829	1.10	25	35	P11763-ND◆	4.64	3.81	3.20	2.23	EET-HC2G221CA
	220	0.829	1.10	30	25	P11764-ND◆	5.04	4.13	3.47	2.42	EET-HC2G221DA
	270	0.675	1.10	22	45	P13244-ND◆	5.03	4.36	3.68	2.76	EET-HC2G271BF
	270	0.675	1.22	22	50	P11765-ND◆	5.33	4.37	3.67	2.56	EET-HC2G271BA
	270	0.675	1.22	25	40	P11766-ND◆	5.37	4.41	3.71	2.58	EET-HC2G271CA
	270	0.675	1.22	30	30	P11767-ND◆	6.01	4.93	4.14	2.89	EET-HC2G271DA
	270	0.675	1.22	35	25	P11768-ND◆	5.32	4.51	3.89	2.92	EET-HC2G271EA
	330	0.553	1.44	25	45	P11769-ND◆	5.49	4.65	4.02	3.01	EET-HC2G331CA
	330	0.553	1.44	30	35	P11770-ND◆	5.56	4.71	4.07	3.05	EET-HC2G331DA
	330	0.553	1.44	35	30	P11771-ND◆	5.93	5.02	4.34	3.26	EET-HC2G331EA
	390	0.468	1.40	30	35	P13245-ND◆	6.66	5.76	4.87	3.65	EET-HC2G391DF
	390	0.468	1.55	25	50	P11772-ND◆	6.01	5.09	4.40	3.30	EET-HC2G391CA
	390	0.468	1.55	30	40	P11773-ND	6.45	5.46	4.72	3.54	EET-HC2G391DA
	390	0.468	1.55	35	30	P11774-ND◆	6.50	5.50	4.75	3.57	EET-HC2G391EA
	470	0.388	1.68	30	45	P11775-ND◆	7.10	6.01	5.20	3.90	EET-HC2G471DA
	470	0.388	1.68	35	35	P11776-ND◆	7.56	6.40	5.53	4.15	EET-HC2G471EA
	560	0.326	1.90	30	50	P11777-ND◆	8.42	7.13	6.16	4.62	EET-HC2G561DA
	560	0.326	1.90	35	40	P11778-ND◆	7.73	6.67	5.86	4.61	EET-HC2G561EA
	680	0.268	2.12	35	45	P11779-ND◆	8.93	7.70	6.77	5.33	EET-HC2G681EA
	820	0.202	2.30	35	50	P13246-ND◆	12.24	10.60	8.95	6.71	EET-HC2G821EA
420	120	1.520	0.74	22	30	P13247-ND◆	3.47	3.01	2.54	1.91	EET-HC2S121BA
	120	1.520	0.74	25	25	P13248-ND◆	3.54	3.07	2.59	1.95	EET-HC2S121CA
	150	1.216	0.84	22	35	P13249-ND◆	3.49	3.03	2.56	1.92	EET-HC2S151BA
	180	1.103	0.91	22	40	P13250-ND◆	4.22	3.65	3.09	2.32	EET-HC2S181BA
	180	1.103	0.91	25	30	P13251-ND◆	4.32	3.74	3.16	2.37	EET-HC2S181CA
	220	0.829	1.05	22	45	P13252-ND◆	4.73	4.10	3.46	2.60	EET-HC2S221BA
	220	0.829	1.05	25	35	P13253-ND◆	4.76	4.12	3.48	2.61	EET-HC2S221CA
	220	0.829	1.05	30	25	P13254-ND◆	5.29	4.58	3.87	2.90	EET-HC2S221DA
	270	0.675	1.20	22	50	P13255-ND◆	5.36	4.65	3.92	2.94	EET-HC2S271BA
	270	0.675	1.20	25	40	P13256-ND◆	5.37	4.65	3.93	2.95	EET-HC2S271CA
	270	0.675	1.20	30	30	P13257-ND◆	6.12	5.30	4.47	3.36	EET-HC2S271DA
	270	0.675	1.20	35	25	P13258-ND◆	6.06	5.25	4.43	3.33	EET-HC2S271EA
	330	0.553	1.42	25	50	P13259-ND◆	6.62	5.74	4.85	3.64	EET-HC2S331CA
	330	0.553	1.42	30	35	P13260-ND◆	6.60	5.72	4.83	3.62	EET-HC2S331DA
	330	0.553	1.42	35	35	P13261-ND◆	6.95	6.02	5.08	3.81	EET-HC2S331EA
	390	0.468	1.55	30	40	P13262-ND◆	7.34	6.36	5.37	4.03	EET-HC2S391DA
	390	0.468	1.55	35	35	P13263-ND◆	7.71	6.67	5.64	4.23	EET-HC2S391EA
	470	0.388	1.71	30	45	P13264-ND◆	8.82	7.63	6.45	4.84	EET-HC2S471DA
	470	0.388	1.71	35	35	P13265-ND◆	8.68	7.52	6.35	4.76	EET-HC2S471EA
	560	0.326	1.90	30	50	P13266-ND◆	9.58	8.29	7.00	5.25	EET-HC2S561DA
	560	0.326	1.90	35	45	P13267-ND◆	9.99	8.65	7.30	5.48	EET-HC2S561EA
	680	0.268	2.10	35	50	P13268-ND◆	12.09	10.47	8.84	6.63	EET-HC2S681EA
450	100	1.824	0.64	22	30	P11799-ND◆	3.61	2.97	2.49	1.74	EET-HC2W101BA
	100	1.824	0.64	25	25	P11800-ND◆	3.69	3.03	2.54	1.77	EET-HC2W101CA
	120	1.520	0.72	22	35	P11801-ND	3.98	3.26	2.74	1.91	EET-HC2W121BA
	120	1.520	0.72	25	30	P11802-ND◆	4.03	3.31	2.78	1.94	EET-HC2W121CA
	150	1.216	0.79	22	40	P11803-ND◆	4.51	3.70	3.11	2.17	EET-HC2W151BA
	150	1.216	0.79	25	30	P11804-ND◆	4.55	3.73	3.14	2.19	EET-HC2W151CA
	150	1.216	0.79	30	25	P11805-ND◆	5.30	4.35	3.65	2.55	EET-HC2W151DA
	180	1.013	0.79	25	35	P13269-ND◆	4.79	4.15	3.51	2.63	EET-HC2W181CF
	180	1.013	0.87	22	45	P11806-ND◆	5.03	4.13	3.47	2.42	EET-HC2W181BA
	180	1.013	0.87	25	40	P11807-ND◆	5.09	4.18	3.51	2.45	EET-HC2W181CA
	180	1.013	0.87	30	30	P11808-ND	5.81	4.77	4.01	2.79	EET-HC2W181DA
	220	0.829	0.90	22	50	P13270-ND◆	5.38	4.66	3.94	2.95	EET-HC2W221BA
	220	0.829	1.00	25	45	P11809-ND◆	5.78	4.74	3.98	2.77	EET-HC2W221CA
	220	0.829	1.00	30	30	P11810-ND◆	5.36	4.54	3.92	2.94	EET-HC2W221DA
	220	0.829	1.00	35	25	P11811-ND◆	5.75	4.87	4.20	3.15	EET-HC2W221EA
	270	0.675	1.07	30	35	P13272-ND◆	6.61	5.72	4.83	3.63	EET-HC2W271DF
	270	0.675	1.19	25	50	P11812-ND◆	5.79	4.90	4.23	3.18	EET-HC2W271CA
	270	0.675	1.19	30	40	P11813-ND◆	6.15	5.21	4.50	3.37	EET-HC2W271DA
	270	0.675	1.19	35	30	P11814-ND◆	6.48	5.49	4.74	3.56	EET-HC2W271EA
	330	0.553	1.24	30	40	P13273-ND◆	7.51	6.51	5.50	4.12	EET-HC2W331DF
	330	0.553	1.38	30	45	P11815-ND◆	7.20	6.10	5.27	3.95	EET-HC2W331DA
	330	0.553	1.38	35	35	P11816-ND◆	7.18	6.08	5.25	3.94	EET-HC2W331EA
	390	0.468	1.39	30	45	P13274-ND◆	8.98	7.78	6.57	4.93	EET-HC2W391DF
	390	0.468	1.55	30	50	P11817-ND◆	8.21	6.95	6.01	4.51	EET-HC2W391DA
	390	0.468	1.55	35	40	P11818-ND◆	8.26	7.00	6.04	4.53	EET-HC2W391EA
	470	0.388	1.74	35	45	P11819-ND	8.54	7.36	6.47	5.09	EET-HC2W471EA
	560	0.326	1.90	35	50	P11820-ND◆	9.94	8.57	7.53	5.93	EET-HC2W561EA

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105°C (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
TSED Very High Ripple Current 105°C, 3000 Hour Life											
200	270	0.553	1.42	22	25	P11609-ND	3.00	2.40	1.97	1.29	EET-ED2D271BA
	330	0.452	1.56	22	30	P11610-ND◆	3.11	2.49	2.05	1.34	EET-ED2D331BA
	390	0.383	1.71	22	30	P11611-ND◆	3.37	2.70	2.22	1.45	EET-ED2D391BA
	390	0.383	1.71	25	25	P11612-ND◆	3.44	2.75	2.26	1.48	EET-ED2D391CA
	470	0.317	1.85	22	35	P11613-ND◆	3.18	2.61	2.20	1.53	EET-ED2D471BA
	470	0.317	1.85	25	30	P11614-ND◆	3.20	2.63	2.21	1.54	EET-ED2D471CA
	560	0.266	2.14	22	40	P11615-ND◆	3.43	2.82	2.37	1.65	EET-ED2D561BA
	560	0.266	2.14	25	30	P11616-ND◆	3.46	2.84	2.38	1.66	EET-ED2D561CA
	560	0.266	2.14	30	25	P11617-ND◆	4.65	3.81	3.21	2.23	EET-ED2D561DA
	680	0.219	2.42	22	45	P11618-ND◆	3.76	3.09	2.60	1.81	EET-ED2D681BA
	680	0.219	2.42	25	35	P11619-ND◆	3.81	3.12	2.63	1.83	EET-ED2D681CA
	680	0.219	2.42	30	30	P11620-ND◆	4.65	3.82	3.21	2.24	EET-ED2D681DA
	820	0.182	2.63	22	50	P11621-ND◆	4.18	3.43	2.89	2.01	EET-ED2D821BA
	820	0.182	2.63	25	40	P11622-ND◆	4.18	3.43	2.88	2.01	EET-ED2D821CA
	820	0.182	2.63	30	30	P11623-ND◆	4.63	3.80	3.19	2.23	EET-ED2D821DA
	820	0.182	2.63	35	25	P11624-ND◆	5.82	4.77	4.01	2.80	EET-ED2D821EA
	1000	0.149	2.84	25	45	P11600-ND◆	4.84	3.97	3.34	2.33	EET-ED2D102CA
	1000	0.149	2.84	30	35	P11601-ND◆	5.65	4.64	3.90	2.72	EET-ED2D102DA
	1000	0.149	2.84	35	30	P11602-ND◆	5.76	4.73	3.97	2.77	EET-ED2D102EA
	1200	0.124	3.13	30	40	P11603-ND◆	5.75	4.72	3.96	2.76	EET-ED2D122DA
	1200	0.124	3.13	35	35	P11604-ND	5.29	4.48	3.87	2.91	EET-ED2D122EA
	1500	0.099	3.56	30	50	P11605-ND◆	5.82	4.93	4.26	3.19	EET-ED2D152DA
	1500	0.099	3.56	35	40	P11606-ND	6.13	5.19	4.48	3.36	EET-ED2D152EA
	1800	0.083	3.84	35	45	P11607-ND◆	6.81	5.77	4.98	3.74	EET-ED2D182EA
	2200	0.068	4.12	35	50	P11608-ND◆	8.16	6.91	5.97	4.48	EET-ED2D222EA
250	220	0.678	1.28	22	30	P11628-ND◆	3.31	2.65	2.18	1.42	EET-ED2E221BA
	270	0.553	1.42	22	30	P11629-ND◆	3.18	2.61	2.19	1.53	EET-ED2E271BA
	270	0.553	1.42	25	25	P11630-ND◆	3.24	2.66	2.24	1.56	EET-ED2E271CA
	330	0.452	1.64	22	35	P11631-ND◆	3.48	2.86	2.40	1.68	EET-ED2E331BA
	330	0.452	1.56	25	30	P11632-ND◆	3.52	2.89	2.43	1.69	EET-ED2E331CA
	390	0.383	1.72	22	40	P11633-ND◆	3.78	3.10	2.60	1.82	EET-ED2E391BA
	390	0.383	1.71	25	30	P11634-ND◆	3.81	3.13	2.63	1.83	EET-ED2E391CA
	390	0.383	1.71	30	25	P11635-ND	4.05	3.32	2.79	1.95	EET-ED2E391DA
	470	0.317	1.85	22	45	P11636-ND◆	4.15	3.41	2.87	2.00	EET-ED2E471BA
	470	0.317	1.85	25	35	P11637-ND◆	4.22	3.46	2.91	2.03	EET-ED2E471CA
	470	0.317	1.85	30	30	P11638-ND◆	4.87	4.00	3.36	2.34	EET-ED2E471DA
	560	0.266	2.14	25	40	P11639-ND◆	4.66	3.83	3.22	2.24	EET-ED2E561CA
	560	0.266	2.14	30	30	P11640-ND◆	5.32	4.36	3.67	2.56	EET-ED2E561DA
	680	0.219	2.42	25	45	P11641-ND◆	5.22	4.29	3.60	2.51	EET-ED2E681CA
	680	0.219	2.42	30	35	P11642-ND◆	5.92	4.86	4.08	2.84	EET-ED2E681DA
	680	0.219	2.42	35	30	P11643-ND◆	6.04	4.95	4.16	2.90	EET-ED2E681EA
	820	0.182	2.63	30	40	P11644-ND◆	5.63	4.77	4.12	3.09	EET-ED2E821DA
	820	0.182	2.63	35	35	P11645-ND◆	5.74	4.86	4.20	3.15	EET-ED2E821EA
	1000	0.149	2.84	30	50	P11625-ND◆	6.11	5.17	4.47	3.35	EET-ED2E102DA
	1000	0.149	2.84	35	40	P11626-ND◆	6.42	5.44	4.70	3.52	EET-ED2E102EA
	1500	0.099	3.56	35	50	P11627-ND◆	7.88	6.79	5.97	4.70	EET-ED2E152EA
400	82	1.617	0.80	22	25	P11667-ND◆	3.49	2.79	2.30	1.50	EET-ED2G820BA
	100	1.326	0.91	22	30	P11646-ND◆	3.29	2.70	2.27	1.58	EET-ED2G101BA
	100	1.326	0.91	25	25	P11647-ND◆	3.33	2.74	2.30	1.60	EET-ED2G101CA
	150	0.884	1.07	22	40	P11648-ND◆	4.00	3.29	2.76	1.93	EET-ED2G151BA
	150	0.884	1.07	25	30	P11649-ND◆	4.02	3.30	2.77	1.93	EET-ED2G151CA
	150	0.884	1.07	30	25	P11650-ND◆	4.80	3.94	3.31	2.31	EET-ED2G151DA
	180	0.737	1.12	22	45	P11651-ND◆	4.44	3.64	3.06	2.13	EET-ED2G181BA
	180	0.737	1.12	25	35	P11652-ND◆	4.47	3.67	3.08	2.15	EET-ED2G181CA
	180	0.737	1.12	30	30	P11653-ND◆	5.23	4.29	3.60	2.51	EET-ED2G181DA
	220	0.603	1.42	22	50	P11654-ND◆	5.09	4.17	3.51	2.44	EET-ED2G221BA
	220	0.603	1.42	25	40	P11655-ND◆	5.03	4.13	3.47	2.42	EET-ED2G221CA
	220	0.603	1.42	30	30	P11656-ND◆	5.46	4.48	3.76	2.62	EET-ED2G221DA
	220	0.603	1.42	35	25	P11657-ND◆	5.96	4.89	4.11	2.86	EET-ED2G221EA
	270	0.491	1.56	25	45	P11658-ND◆	5.76	4.72	3.97	2.77	EET-ED2G271CA
	270	0.491	1.56	30	35	P11659-ND◆	5.65	4.79	4.13	3.10	EET-ED2G271DA
	270	0.491	1.56	35	30	P11660-ND	5.67	4.80	4.15	3.11	EET-ED2G271EA
	330	0.402	1.71	30	40	P11661-ND◆	6.07	5.14	4.44	3.33	EET-ED2G331DA
	330	0.402	1.71	35	30	P11662-ND◆	6.35	5.38	4.64	3.48	EET-ED2G331EA
	390	0.340	1.85	30	45	P11663-ND◆	7.20	6.10	5.27	3.95	EET-ED2G391DA
	390	0.340	1.85	35	35	P11664-ND◆	7.13	6.04	5.21	3.91	EET-ED2G391EA
	470	0.282	2.01	35	40	P11665-ND◆	8.24	6.97	6.02	4.52	EET-ED2G471EA
	560	0.237	2.35	35	45	P11666-ND◆	8.37	7.22	6.35	4.99	EET-ED2G561EA
450	56	2.368	0.67	22	25	P11690-ND◆	3.42	2.74	2.25	1.47	EET-ED2W560BA
	68	1.950	0.76	22	30	P11692-ND◆	3.23	2.65	2.23	1.56	EET-ED2W680BA
	68	1.950	0.76	25	25	P11693-ND◆	3.29	2.70	2.27	1.58	EET-ED2W680CA
	82	1.617	0.80	22	30	P11694-ND	3.50	2.87	2.41	1.68	EET-ED2W820BA
	82	1.617	0.80	25	25	P11695-ND◆	3.55	2.92	2.45	1.71	EET-ED2W820CA
	100	1.326	0.91	22	35	P11668-ND◆	3.87	3.18	2.67	1.86	EET-ED2W101BA
	100	1.326	0.91	25	30	P11669-ND◆	3.92	3.21	2.70	1.88	EET-ED2W101CA
	120	1.105	1.02	22	40	P11670-ND◆	4.25	3.49	2.93	2.04	EET-ED2W121BA
	120	1.105	1.02	25	35	P11671-ND◆	4.30	3.53	2.96	2.07	EET-ED2W121CA
	120	1.105	1.02	30	25	P11672-ND◆	5.01	4.11	3.45	2.40	EET-ED2W121DA
	150	0.884	1.07	22	45	P11673-ND◆	4.88	4.00	3.36	2.34	EET-ED2W151BA
	150	0.884	1.07	25	40	P11674-ND◆	4.91	4.03	3.39	2.36	EET-ED2W151CA
	150	0.884	1.07	30	30	P11675-ND◆	5.15	4.23	3.55	2.48	EET-ED2W151DA
	150	0.884	1.07	35	25	P11676-ND◆	5.74	4.71	3.96	2.76	EET-ED2W151EA
	180	0.737	1.12	22	50	P11677-ND◆	5.55	4.55	3.83	2.67	EET-ED2W181BA
	180	0.737	1.12	25	40	P11678-ND◆	5.51	4.52	3.80	2.65	EET-ED2W181CA
	180	0.737	1.12	30	30	P11679-ND◆	5.27	4.47	3.86	2.89	EET-ED2W181DA
	180	0.737	1.12	35	25	P11680-ND◆	5.42	4.59	3.97	2.98	EET-ED2W181EA
	220	0.603	1.42	25	45	P11681-ND◆	5.51	4.67	4.03	3.03	EET-ED2W221CA
	220	0.603	1.42	30	35	P11682-ND◆	5.57	4.72	4.07	3.06	EET-ED2W221DA
	220	0.603	1.42	35	30	P11683-ND◆	5.90	4.99	4.31	3.24	EET-ED2W221EA
	270	0.491	1.72	30	40	P11684-ND◆	6.41	5.43	4.69	3.52	EET-ED2W271DA
	270	0.491	1.72	35	35	P11685-ND◆	6.73	5.70	4.93	3.70	EET-ED2W271EA
	330	0.402	1.85	30	50	P11686-ND◆	7.52	6.37	5.50	4.13	EET-ED2W331DA
	330	0.402	1.85	35	40	P11687-ND◆	7.86	6.66	5.75	4.31	EET-ED2W331EA
	390	0.340	1.97	35	40	P11688-ND◆	8.01	6.91	6.07	4.78	EET-ED2W391EA
	470	0.282	2.47	35	50	P11689-ND◆	9.34	8.05	7.08	5.57	EET-ED2W471EA
	560	0.236	3.50	35	63	P11691-ND◆	11.92	10.51	9.43	7.81	EET-ED2W561EA

◆ ***RoHS Compliant***

Panasonic® T-UP Series Snap-In Capacitors

4 Pin Terminal

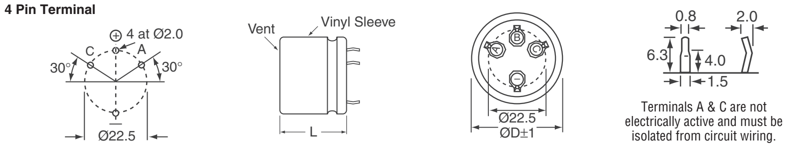
4 at Ø2.0
C
A
30°
30°
Ø22.5
Vent
Vinyl Sleeve
L
Ø22.5
ØD±1
0.8
2.0
6.3
4.0
1.5
Terminals A & C are not electrically active and must be isolated from circuit wiring.

5 Pin Terminal

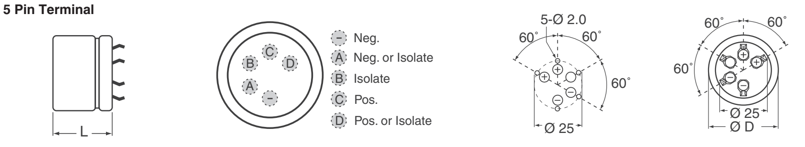

Features:

- 4 or 5 terminal mounting provides stability and keyed polarity
- Replaces T-U series with higher capacitance and ripple current per case size
- General purpose rated at 85°C, 3000 hour endurance
- 35 and 40mm diameter case sizes up to 80mm in length for 4 terminal mounting and 105mm for 5 terminal mounting
- Top vent construction

Rated Working Voltage		16 ~ 250VDC	350 ~ 500VDC
Operating Temperature		-40°C ~ 85°C	-25°C ~ 85°C
Nominal Capacitance:	**4 Pin**	1500 ~ 120000µF	470 ~ 1800µF
	5 Pin	1200~270000µF(±20%Tol.)	220 ~ 2700µF(±20%Tol.)
Endurance:	**4 Pin**	2000 hours at 85°C with maximum specified ripple current	
	5 Pin	3000 hours at 85°C with maximum specified ripple current	

Rated DC Voltage:	16	25	35	50	63	80	100	200	250	350	400	450	500
Surge Voltage:	20	32	44	63	79	100	125	250	300	400	450	500	550

Capacitance (µF)	Size (mm) D X L	Max. 85°C Ripple (Arms)		Max. 20°C 120Hz ESR (Ω)	Digi-Key Part No.	Price Each			Panasonic Part No.
		120Hz	10k~100kHz			1	10	50	
16WV DC • 4 Pin — RoHS Compliant									
68000	35 x 50	9.05	10.41	0.018	P10000-ND	10.21	8.81	6.45	ECE-T1CP683EA
82000	35 x 60	9.94	11.43	0.018	P10001-ND	11.68	10.07	7.38	ECE-T1CP823EA
82000	40 x 50	10.29	11.83	0.019	P10003-ND	8.42	7.26	6.38	ECE-T1CP823FA
100000	35 x 80	11.00	12.65	0.019	P10002-ND	10.11	8.91	8.00	ECE-T1CP104EA
100000	40 x 60	11.36	13.06	0.020	P10004-ND	12.13	10.69	8.00	ECE-T1CP104FA
120000	40 x 80	12.42	14.28	0.018	P10005-ND	13.20	11.63	8.70	ECE-T1CP124FA
25WV DC • 4 Pin — RoHS Compliant									
47000	35 x 50	8.00	9.20	0.017	P10006-ND	10.28	8.86	6.49	ECE-T1EP473EA
56000	35 x 60	8.64	9.94	0.017	P10007-ND	11.68	10.07	7.38	ECE-T1EP563EA
56000	40 x 50	8.96	10.30	0.018	P10009-ND	11.69	10.08	7.38	ECE-T1EP563FA
68000	35 x 80	9.44	10.86	0.017	P10008-ND	11.56	10.19	7.62	ECE-T1EP683EA
68000	40 x 60	9.76	11.22	0.018	P10010-ND	12.10	10.66	7.98	ECE-T1EP683FA
100000	40 x 80	11.68	13.43	0.018	P10011-ND	13.36	12.08	9.21	ECE-T1EP104FA
35WV DC • 4 Pin									
33000	35 x 50	7.15	8.22	0.018	P10012-ND◆	10.80	9.31	6.82	ECE-T1VP333EA
39000	35 x 60	7.94	9.13	0.015	P10013-ND	12.31	10.61	7.78	ECE-T1VP393EA
39000	40 x 50	7.79	8.96	0.017	P10015-ND◆	10.96	9.66	7.23	ECE-T1VP393FA
47000	35 x 80	9.53	10.96	0.015	P10014-ND◆	12.13	10.69	8.00	ECE-T1VP473EA
47000	40 x 60	8.58	9.87	0.017	P10016-ND◆	12.72	11.21	8.38	ECE-T1VP473FA
56000	40 x 80	10.17	11.70	0.017	P10017-ND◆	13.77	12.13	9.08	ECE-T1VP563FA
50WV DC • 4 Pin — RoHS Compliant									
22000	35 x 50	7.57	8.71	0.023	P10018-ND	11.27	9.72	7.12	ECE-T1HP223EA
27000	35 x 60	8.31	9.56	0.018	P10019-ND	13.20	11.38	8.34	ECE-T1HP273EA
27000	40 x 50	8.12	9.34	0.021	P10021-ND	11.72	10.33	7.72	ECE-T1HP273FA
33000	35 x 80	9.23	10.51	0.015	P10020-ND	13.16	11.60	8.68	ECE-T1HP333EA
33000	40 x 60	8.86	10.19	0.018	P10022-ND	13.80	12.16	9.10	ECE-T1HP333FA
39000	40 x 80	9.79	11.26	0.015	P10023-ND	14.92	13.15	9.83	ECE-T1HP393FA
63WV DC • 4 Pin — RoHS Compliant									
12000	35 x 50	7.15	8.22	0.035	P10024-ND	9.96	8.59	6.29	ECE-T1JP123EA
15000	35 x 60	7.71	8.87	0.028	P10025-ND	11.60	10.00	7.32	ECE-T1JP153EA
15000	40 x 50	7.53	8.66	0.033	P10027-ND	11.60	10.00	7.32	ECE-T1JP153FA
18000	35 x 80	9.41	10.82	0.023	P10026-ND	11.39	10.03	7.50	ECE-T1JP183EA
18000	40 x 60	8.28	9.52	0.028	P10028-ND	11.91	10.50	7.85	ECE-T1JP183FA
22000	40 x 80	9.97	11.47	0.023	P10029-ND	13.09	11.54	8.63	ECE-T1JP223FA
80WV DC • 4 Pin — RoHS Compliant									
8200	35 x 50	5.83	6.70	0.051	P10030-ND	9.76	8.41	6.16	ECE-T1KP822EA
10000	35 x 60	6.38	7.34	0.041	P10031-ND	11.82	10.19	7.47	ECE-T1KP103EA
10000	40 x 50	6.56	7.54	0.041	P10033-ND	10.08	8.88	6.64	ECE-T1KP103FA
12000	35 x 80	6.92	7.96	0.035	P10032-ND	11.06	9.75	7.29	ECE-T1KP123EA
12000	40 x 60	7.29	8.38	0.035	P10034-ND	11.59	10.22	7.64	ECE-T1KP123FA
15000	40 x 80	8.93	10.27	0.028	P10035-ND	12.84	11.32	8.46	ECE-T1KP153FA
100WV DC • 4 Pin — RoHS Compliant									
6800	35 x 50	6.60	7.59	0.049	P10036-ND	10.26	9.05	6.77	ECE-T2AP682EA
8200	35 x 60	7.05	8.12	0.040	P10037-ND	12.03	10.60	7.93	ECE-T2AP822EA
8200	40 x 50	7.28	8.37	0.040	P10039-ND	11.89	10.48	7.84	ECE-T2AP822FA
10000	35 x 80	7.74	8.90	0.033	P10038-ND	11.96	10.82	8.25	ECE-T2AP103EA
10000	40 x 60	7.97	9.17	0.033	P10040-ND	14.08	12.41	9.28	ECE-T2AP103FA
12000	40 x 80	8.65	9.95	0.026	P10041-ND	13.99	12.66	9.65	ECE-T2AP123FA
200WV DC • 4 Pin									
2200	35 x 50	4.92	6.89	0.113	P10042-ND◆	10.83	9.34	6.84	ECE-T2DP222EA
2700	35 x 60	5.41	7.57	0.092	P10043-ND	12.11	10.44	7.65	ECE-T2DP272EA
2700	40 x 50	5.41	7.57	0.092	P10045-ND◆	11.28	9.95	7.44	ECE-T2DP272FA
3300	35 x 80	5.90	8.26	0.075	P10044-ND◆	12.58	11.09	8.29	ECE-T2DP332EA
3300	40 x 60	5.90	8.26	0.075	P10046-ND◆	12.60	11.10	8.30	ECE-T2DP332FA
3900	35 x 80	6.60	9.24	0.055	P13177-ND◆	14.32	12.73	9.55	ECE-T2DP392EA
3900	40 x 63	6.81	9.53	0.055	P13178-ND◆	14.73	13.10	9.83	ECE-T2DP392FX
3900	40 x 80	6.40	8.96	0.064	P10047-ND	14.28	12.59	9.41	ECE-T2DP392FA
250WV DC • 4 Pin									
1500	35 x 50	4.04	5.66	0.166	P10048-ND◆	11.04	9.52	6.98	ECE-T2EP152EA
1800	35 x 60	4.49	6.29	0.138	P10049-ND◆	12.22	10.54	7.72	ECE-T2EP182EA
1800	40 x 50	4.49	6.29	0.138	P10051-ND	12.75	10.99	8.05	ECE-T2EP182FA
2200	35 x 63	4.70	6.58	0.090	P13179-ND◆	11.83	10.52	7.89	ECE-T2EP222EX
2200	35 x 80	4.94	6.92	0.113	P10050-ND◆	12.73	11.22	8.39	ECE-T2EP222EA
2200	40 x 60	4.94	6.92	0.113	P10052-ND◆	12.72	11.21	8.38	ECE-T2EP222FA
2700	35 x 80	5.63	7.88	0.074	P13180-ND◆	14.47	12.87	9.65	ECE-T2EP272EA
2700	40 x 63	5.81	8.13	0.074	P13181-ND◆	14.97	13.31	9.99	ECE-T2EP272FX
2700	40 x 80	5.39	7.55	0.092	P10053-ND◆	14.78	13.02	9.74	ECE-T2EP272FA
3900	40 x 80	7.36	10.30	0.051	P13182-ND◆	18.52	16.47	12.35	ECE-T2EP392FA
350WV DC • 4 Pin									
680	35 x 50	2.96	4.14	0.366	P10054-ND	11.21	9.66	7.08	ECE-T2VP681EA
1000	35 x 60	3.19	4.47	0.249	P10055-ND◆	12.61	11.12	8.31	ECE-T2VP102EA
1000	40 x 50	3.19	4.47	0.249	P10057-ND◆	13.13	11.57	8.65	ECE-T2VP102FA
1200	35 x 80	3.64	5.10	0.207	P10056-ND	14.56	12.83	9.60	ECE-T2VP122EA
1200	40 x 60	3.64	5.10	0.207	P10058-ND◆	14.64	12.90	9.65	ECE-T2VP122FA
1800	40 x 80	4.10	5.74	0.136	P10059-ND◆	17.68	16.00	12.19	ECE-T2VP182FA
400WV DC • 4 Pin — RoHS Compliant									
560	35 x 50	2.69	3.77	0.444	P10060-ND	11.10	9.57	7.01	ECE-T2GP561EA
680	35 x 60	2.93	4.10	0.366	P10061-ND	11.05	9.74	7.29	ECE-T2GP681EA
680	40 x 50	3.38	4.73	0.268	P13183-ND	10.48	9.32	6.99	ECE-T2GP681FA
820	40 x 50	3.18	4.45	0.303	P10063-ND	12.83	11.31	8.46	ECE-T2GP821FA
1000	35 x 80	3.42	4.79	0.249	P10062-ND	14.48	12.76	9.54	ECE-T2GP102EA
1000	40 x 60	3.42	4.79	0.249	P10064-ND	14.59	12.86	9.61	ECE-T2GP102FA
1500	40 x 80	3.91	5.47	0.166	P10065-ND	17.62	15.94	12.15	ECE-T2GP152FA
450WV DC • 4 Pin — RoHS Compliant									
470	35 x 50	2.53	3.54	0.529	P10066-ND	12.50	10.78	7.90	ECE-T2WP471EA
470	40 x 35	2.53	3.54	0.423	P13186-ND	11.03	9.81	7.36	ECE-T2WP471FA
560	35 x 60	2.76	3.86	0.444	P10067-ND	13.87	11.96	8.76	ECE-T2WP561EA
680	35 x 80	3.17	4.44	0.293	P13187-ND	14.54	12.93	9.70	ECE-T2WP681EA
680	40 x 50	2.99	4.19	0.366	P10069-ND	14.53	12.80	9.57	ECE-T2WP681FA
820	35 x 80	3.22	4.51	0.303	P10068-ND	14.75	13.34	10.17	ECE-T2WP821EA
820	40 x 60	3.22	4.51	0.303	P10070-ND	16.36	14.41	10.78	ECE-T2WP821FA
1000	40 x 80	4.21	5.89	0.216	P13188-ND	18.45	16.40	12.30	ECE-T2WP102FA
1200	40 x 80	3.45	4.83	0.207	P10071-ND	17.40	16.25	12.67	ECE-T2WP122FA
50WV DC • 5 Pin — RoHS Compliant									
33000	50 x 50	10.48	12.05	0.018	P13275-ND	23.17	20.60	15.45	ECE-P1HP333HA
47000	50 x 63	11.54	13.27	0.013	P13276-ND	25.30	22.50	16.87	ECE-P1HP473HA
56000	50 x 80	12.46	14.33	0.012	P13277-ND	27.38	24.34	18.26	ECE-P1HP563HA
68000	50 x 92	13.17	15.15	0.011	P13278-ND	30.44	27.07	20.30	ECE-P1HP683HA
82000	50 x 105	13.87	15.95	0.011	P13279-ND	33.51	29.79	22.35	ECE-P1HP823HA
80WV DC • 5 Pin — RoHS Compliant									
18000	50 x 50	10.00	11.50	0.023	P13280-ND	22.56	20.06	15.04	ECE-P1KP183HA
22000	50 x 63	11.08	12.74	0.019	P13281-ND	25.15	22.36	16.77	ECE-P1KP223HA
27000	50 x 80	12.33	14.18	0.015	P13282-ND	26.67	23.71	17.79	ECE-P1KP273HA
33000	50 x 92	13.37	15.38	0.014	P13283-ND	29.18	25.94	19.46	ECE-P1KP333HA
39000	50 x 105	14.34	16.49	0.013	P13284-ND	32.88	29.23	21.92	ECE-P1KP393HA
100WV DC • 5 Pin — RoHS Compliant									
10000	50 x 50	8.82	10.14	0.033	P13285-ND	22.24	19.77	14.83	ECE-P2AP103HA
15000	50 x 63	10.07	11.58	0.022	P13286-ND	25.81	22.94	17.21	ECE-P2AP153HA
18000	50 x 80	11.00	12.65	0.018	P13287-ND	27.65	24.58	18.44	ECE-P2AP183HA
22000	50 x 92	11.76	13.52	0.015	P13288-ND	30.35	26.98	20.24	ECE-P2AP223HA
27000	50 x 105	12.53	14.41	0.014	P13289-ND	33.82	30.07	22.55	ECE-P2AP273HA
200WV DC • 5 Pin — RoHS Compliant									
3900	50 x 50	8.22	11.51	0.055	P13290-ND	23.58	20.97	15.73	ECE-P2DP392HA
4700	50 x 63	9.32	13.05	0.046	P13291-ND	25.26	22.46	16.84	ECE-P2DP472HA
5600	50 x 63	9.57	13.40	0.038	P13292-ND	28.41	25.26	18.94	ECE-P2DP562HA
6800	50 x 80	11.41	15.97	0.032	P13293-ND	30.15	26.80	20.10	ECE-P2DP682HA
8200	50 x 92	13.02	18.23	0.026	P13294-ND	33.06	29.39	22.05	ECE-P2DP822HX
10000	50 x 105	14.17	19.84	0.021	P13295-ND	37.36	33.21	24.91	ECE-P2DP103HA
250WV DC • 5 Pin — RoHS Compliant									
2700	50 x 50	6.77	9.48	0.074	P13296-ND	24.68	21.94	16.46	ECE-P2EP272HA
3300	50 x 50	7.22	10.11	0.060	P13297-ND	26.74	23.77	17.83	ECE-P2EP332HX
4700	50 x 80	9.65	13.51	0.042	P13298-ND	29.61	26.32	19.74	ECE-P2EP472HA
5600	50 x 80	14.34	20.08	0.036	P13299-ND	33.43	29.72	22.29	ECE-P2EP562HX
6800	50 x 105	12.16	17.02	0.029	P13300-ND	37.38	33.23	24.93	ECE-P2EP682HA
7500	50 x 105	12.56	17.58	0.026	P13301-ND	39.45	35.07	26.31	ECE-P2EP752HA
400WV DC • 5 Pin — RoHS Compliant									
1000	50 x 50	4.76	6.66	0.199	P13302-ND	25.15	22.36	16.77	ECE-P2GP102HA
1200	50 x 50	5.21	7.29	0.166	P13303-ND	26.12	23.23	17.42	ECE-P2GP122HX
1500	50 x 63	6.12	8.57	0.133	P13304-ND	28.34	25.20	18.90	ECE-P2GP152HX
1800	50 x 80	7.09	9.93	0.111	P13305-ND	32.91	29.26	21.95	ECE-P2GP182HX
2200	50 x 92	8.13	11.38	0.090	P13306-ND	33.89	30.13	22.60	ECE-P2GP222HX
2700	50 x 105	9.34	13.08	0.073	P13307-ND	39.28	34.92	26.19	ECE-P2GP272HA
450WV DC • 5 Pin — RoHS Compliant									
820	50 x 50	4.31	6.03	0.263	P13308-ND	26.37	23.44	17.58	ECE-P2WP821HA
1000	50 x 63	4.96	6.94	0.216	P13309-ND	30.26	26.91	20.18	ECE-P2WP102HA
1200	50 x 63	5.43	7.60	0.180	P13310-ND	33.27	29.58	22.19	ECE-P2WP122HX
1500	50 x 80	6.15	8.61	0.144	P13311-ND	36.92	32.82	24.62	ECE-P2WP152HX
1800	50 x 92	7.02	9.83	0.120	P13312-ND	41.35	36.76	27.57	ECE-P2WP182HX
500WV DC • 5 Pin — RoHS Compliant									
560	50 x 50	3.52	4.93	0.355	P13313-ND	25.04	22.26	16.70	ECE-P2HP561HA
680	50 x 50	3.88	5.43	0.293	P13314-ND	27.77	24.69	18.52	ECE-P2HP681HX
820	50 x 63	4.47	6.26	0.222	P13315-ND	30.74	27.33	20.50	ECE-P2HP821HA
1000	50 x 80	5.05	7.07	0.199	P13316-ND	33.98	30.21	22.66	ECE-P2HP102HA
1200	50 x 80	5.35	7.49	0.166	P13317-ND	36.97	32.87	24.65	ECE-P2HP122HX
1500	50 x 105	6.65	9.31	0.144	P13318-ND	41.45	36.85	27.64	ECE-P2HP152HA

◆ ***RoHS Compliant***

Panasonic® T-HA Series Snap-In Capacitors

4 Pin Terminal

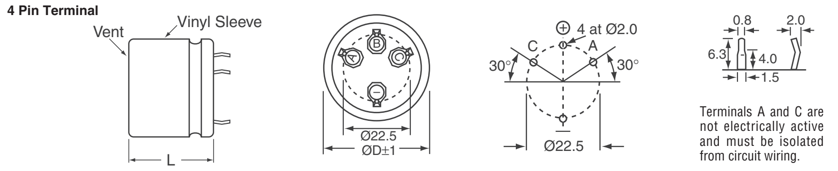

Terminals A and C are not electrically active and must be isolated from circuit wiring.

5 Pin Terminal

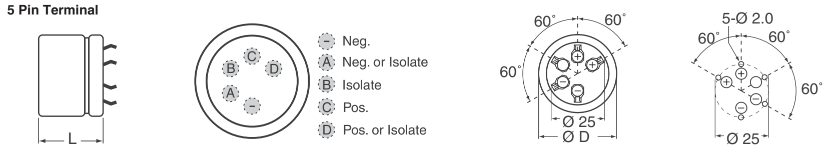

Features:

- 4 or 5 terminal mounting provides stability and keyed polarity
- Replaces T-NHE series with higher capacitance and ripple current per case size
- Industrial grade with 3000 hour endurance at 105° C
- 35 and 40mm diameter case sizes up to 80mm in length for 4 terminal mounting and 105mm for 5 terminal mounting
- Top vent construction

Rated Working Voltage		16 ~ 250VDC	350 ~ 450VDC
Operating Temperature		-40°C ~ 105°C	-25°C ~ 105°C
Nominal Capacitance:	**4 Pin**	1200 ~ 120000µF	470 ~ 1500µF
	5 Pin	1000~250000µF(±20%Tol.)	330 ~ 2700µF(±20%Tol.)
Endurance:	**4 Pin**	2000 hours at 105°C with maximum specified ripple current	
	5 Pin	3000 hours at 105°C with maximum specified ripple current	

Rated DC Voltage:	16	25	35	50	63	80	100	200	250	350	400	450
Surge Voltage:	20	32	44	63	79	100	125	250	300	400	450	500

Cap (µF)	Size (mm) D X L	Max. 85°C Ripple (Arms) 120 Hz	10k~100kHz	Max. 20°C 120Hz ESR (Ω)	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
16WV DC • 4 Pin									
56000	35 x 50	6.00	6.90	0.018	P10612-ND	9.77	8.42	6.17	ECE-T1CA563EA
68000	35 x 60	6.62	7.61	0.017	P10613-ND	9.97	8.79	6.58	ECE-T1CA683EA
68000	40 x 50	7.29	8.38	0.019	P10614-ND	10.01	8.82	6.60	ECE-T1CA683FA
82000	40 x 60	7.29	8.38	0.017	P10615-ND◆	11.49	10.12	7.57	ECE-T1CA823FA
100000	35 x 80	8.03	9.23	0.015	P10616-ND◆	12.30	10.84	8.11	ECE-T1CA104EA
120000	40 x 80	8.79	10.11	0.014	P10617-ND◆	12.55	11.36	8.66	ECE-T1CA124FA
25WV DC • 4 Pin									
33000	35 x 50	5.50	6.33	0.020	P10618-ND◆	9.23	7.96	5.83	ECE-T1EA333EA
47000	35 x 60	6.56	7.54	0.017	P10619-ND◆	10.14	8.94	6.68	ECE-T1EA473EA
47000	40 x 50	6.47	7.44	0.019	P10620-ND	10.16	8.95	6.69	ECE-T1EA473FA
56000	35 x 80	7.25	8.34	0.017	P10621-ND	11.10	9.78	7.32	ECE-T1EA563EA
56000	40 x 60	7.17	8.25	0.015	P10622-ND	11.59	10.22	7.64	ECE-T1EA563FA
82000	40 x 80	8.68	9.98	0.014	P10623-ND◆	12.71	11.49	8.76	ECE-T1EA823FA
35WV DC • 4 Pin — RoHS Compliant									
22000	35 x 50	5.00	5.75	0.026	P10624-ND	9.86	8.50	6.23	ECE-T1VA223EA
27000	35 x 60	5.53	6.36	0.021	P10625-ND	10.15	8.95	6.69	ECE-T1VA273EA
27000	40 x 50	5.44	6.26	0.025	P10626-ND	10.16	8.96	6.70	ECE-T1VA273FA
33000	40 x 60	6.61	7.60	0.020	P10627-ND	11.77	10.37	7.76	ECE-T1VA333FA
39000	35 x 80	6.52	7.50	0.015	P10628-ND	12.39	10.92	8.16	ECE-T1VA393EA
47000	40 x 80	7.79	8.96	0.014	P10629-ND	14.20	12.51	9.36	ECE-T1VA473FA
50WV DC • 4 Pin									
15000	35 x 50	4.80	5.52	0.033	P10630-ND◆	9.99	8.61	6.31	ECE-T1HA153EA
18000	35 x 60	5.27	6.06	0.028	P10631-ND◆	10.18	8.97	6.71	ECE-T1HA183EA
22000	40 x 50	5.15	5.92	0.026	P10632-ND	11.31	9.97	7.45	ECE-T1HA223FA
27000	35 x 80	6.16	7.08	0.018	P10633-ND	12.70	11.20	8.37	ECE-T1HA273EA
27000	40 x 60	6.05	6.96	0.021	P10634-ND	13.28	11.70	8.75	ECE-T1HA273FA
39000	40 x 80	7.55	8.68	0.015	P10635-ND◆	14.66	13.26	10.11	ECE-T1HA393FA
63WV DC • 4 Pin — RoHS Compliant									
12000	35 x 50	4.40	5.06	0.035	P10636-ND	9.39	8.28	6.19	ECE-T1JA123EA
15000	35 x 60	4.92	5.66	0.028	P10637-ND	11.00	9.70	7.25	ECE-T1JA153EA
15000	40 x 50	4.80	5.52	0.033	P10638-ND	10.97	9.67	7.23	ECE-T1JA153FA
18000	35 x 80	5.79	6.66	0.023	P10639-ND	12.12	10.68	7.99	ECE-T1JA183EA
18000	40 x 60	5.39	6.20	0.028	P10640-ND	12.70	11.19	8.37	ECE-T1JA183FA
27000	40 x 80	6.59	7.58	0.018	P10641-ND	14.28	12.92	9.85	ECE-T1JA273FA
80WV DC • 4 Pin — RoHS Compliant									
6800	35 x 50	3.90	4.49	0.061	P10642-ND	9.05	7.98	5.97	ECE-T1KA682EA
8200	35 x 60	4.39	5.05	0.051	P10643-ND	10.47	9.23	6.90	ECE-T1KA822EA
8200	40 x 50	4.29	4.93	0.051	P10644-ND	11.21	9.88	7.39	ECE-T1KA822FA
10000	35 x 80	4.88	5.61	0.041	P10645-ND	12.54	11.05	8.26	ECE-T1KA103EA
10000	40 x 60	4.73	5.44	0.041	P10646-ND	12.51	11.02	8.25	ECE-T1KA103FA
15000	40 x 80	5.97	6.87	0.028	P10647-ND	13.58	12.29	9.37	ECE-T1KA153FA
100WV DC • 4 Pin — RoHS Compliant									
4700	35 x 50	3.80	4.37	0.071	P10648-ND	9.37	8.26	6.18	ECE-T2AA472EA
5600	35 x 60	4.06	4.67	0.059	P10649-ND	10.81	9.52	7.12	ECE-T2AA562EA
6800	40 x 50	4.57	5.26	0.049	P10650-ND	11.96	10.55	7.89	ECE-T2AA682FA
8200	35 x 80	5.15	5.92	0.040	P10651-ND	13.37	11.78	8.81	ECE-T2AA822EA
8200	40 x 60	5.02	5.77	0.040	P10652-ND	12.59	11.39	8.68	ECE-T2AA822FA
12000	40 x 80	6.44	7.41	0.028	P10653-ND	15.70	14.20	10.83	ECE-T2AA123FA
200WV DC • 4 Pin — RoHS Compliant									
2200	35 x 50	2.90	4.06	0.113	P10654-ND	10.41	9.18	6.86	ECE-T2DA222EA
2700	35 x 60	3.65	5.11	0.092	P10655-ND	11.70	10.31	7.71	ECE-T2DA272EA
2700	40 x 50	3.55	4.97	0.092	P10656-ND	12.19	10.74	8.03	ECE-T2DA272FA
3300	35 x 80	4.52	6.33	0.075	P10657-ND	13.71	12.08	9.04	ECE-T2DA332EA
3300	40 x 60	4.40	6.16	0.075	P10658-ND	13.68	12.06	9.02	ECE-T2DA332FA
4700	40 x 80	5.76	8.06	0.053	P10659-ND	15.80	14.29	10.89	ECE-T2DA472FA
250WV DC • 4 Pin									
1200	35 x 50	2.30	3.22	0.207	P10660-ND◆	10.12	8.92	6.67	ECE-T2EA122EA
1500	35 x 60	2.57	3.60	0.166	P10661-ND	11.48	10.12	7.57	ECE-T2EA152EA
1800	40 x 50	3.15	4.41	0.138	P10662-ND◆	13.33	11.74	8.78	ECE-T2EA182FA
2200	35 x 80	3.75	5.25	0.113	P10663-ND◆	13.53	12.24	9.33	ECE-T2EA222EA
2200	40 x 60	3.68	5.15	0.113	P10664-ND◆	13.47	12.19	9.29	ECE-T2EA222FA
3300	40 x 80	4.68	5.80	0.075	P10665-ND◆	16.14	15.07	11.75	ECE-T2EA332FA
350WV DC • 4 Pin									
680	35 x 50	2.15	3.01	0.366	P10666-ND	11.13	9.81	7.34	ECE-T2VA681EA
820	35 x 60	2.65	3.71	0.303	P10667-ND	12.43	10.95	8.19	ECE-T2VA821EA
820	40 x 50	2.65	3.71	0.303	P10668-ND◆	12.93	11.39	8.52	ECE-T2VA821FA
1200	35 x 80	3.22	4.51	0.207	P10669-ND◆	14.78	13.37	10.19	ECE-T2VA122EA
1200	40 x 60	3.22	4.51	0.207	P10670-ND	14.68	13.27	10.12	ECE-T2VA122FA
1500	40 x 80	3.75	5.25	0.166	P10671-ND	17.59	15.91	12.13	ECE-T2VA152FA
400WV DC • 4 Pin									
560	35 x 50	1.80	2.52	0.444	P10672-ND◆	11.42	10.07	7.53	ECE-T2GA561EA
680	40 x 50	2.17	3.04	0.366	P10673-ND	13.36	11.77	8.80	ECE-T2GA681FA
820	35 x 60	2.44	3.42	0.303	P10674-ND◆	14.76	13.01	9.73	ECE-T2GA821EA
1000	35 x 80	3.00	4.20	0.249	P10675-ND◆	15.36	13.89	10.59	ECE-T2GA102EA
1000	40 x 60	3.00	4.20	0.249	P10676-ND◆	15.24	13.78	10.51	ECE-T2GA102FA
1200	40 x 80	3.30	4.62	0.207	P10677-ND◆	17.80	16.10	12.27	ECE-T2GA122FA
450WV DC • 4 Pin — RoHS Compliant									
470	35 x 50	1.74	2.44	0.529	P10678-ND	12.45	10.98	8.21	ECE-T2WA471EA
560	35 x 60	2.15	3.01	0.444	P10679-ND	13.90	12.25	9.16	ECE-T2WA561EA
560	40 x 50	2.10	2.94	0.444	P10680-ND	14.44	12.72	9.52	ECE-T2WA561FA
680	40 x 60	2.50	3.78	0.303	P10681-ND	14.60	13.21	10.07	ECE-T2WA681FA
820	35 x 80	2.70	3.50	0.303	P10682-ND	16.77	15.17	11.56	ECE-T2WA821EA
1000	40 x 80	3.50	4.90	0.249	P10683-ND	19.73	17.84	13.60	ECE-T2WA102FA
50WV DC • 5 Pin — RoHS Compliant									
33000	50 x 50	7.75	8.91	0.018	P13191-ND	23.87	21.22	15.92	ECE-P1HA333HA
39000	50 x 63	8.40	9.66	0.016	P13192-ND	24.82	22.07	16.55	ECE-P1HA393HA
47000	50 x 80	9.19	10.57	0.014	P13193-ND	26.83	23.85	17.89	ECE-P1HA473HA
56000	50 x 92	9.79	11.26	0.012	P13194-ND	29.12	25.89	19.42	ECE-P1HA563HA
68000	50 x 105	10.42	11.98	0.011	P13195-ND	32.66	29.03	21.78	ECE-P1HA683HA
80WV DC • 5 Pin — RoHS Compliant									
12000	50 x 50	6.03	6.93	0.035	P13196-ND	21.76	19.35	14.51	ECE-P1KA123HA
15000	50 x 63	6.65	7.65	0.028	P13197-ND	23.93	21.27	15.96	ECE-P1KA153HA
18000	50 x 80	7.29	8.38	0.026	P13198-ND	25.34	22.53	16.90	ECE-P1KA183HA
22000	50 x 92	7.83	9.00	0.022	P13199-ND	27.55	24.49	18.37	ECE-P1KA223HA
27000	50 x 105	8.38	9.64	0.018	P13200-ND	30.40	27.03	20.27	ECE-P1KA273HA
100WV DC • 5 Pin — RoHS Compliant									
8200	50 x 50	6.14	7.06	0.030	P13201-ND	21.94	19.50	14.63	ECE-P2AA822HA
12000	50 x 63	7.17	8.25	0.022	P13202-ND	24.00	21.34	16.01	ECE-P2AA123HA
15000	50 x 80	8.01	9.21	0.019	P13203-ND	27.77	24.69	18.52	ECE-P2AA153HA
18000	50 x 92	8.64	9.94	0.017	P13204-ND	31.20	27.74	20.81	ECE-P2AA183HA
22000	50 x 105	9.32	10.72	0.015	P13205-ND	33.62	29.89	22.42	ECE-P2AA223HA
200WV DC • 5 Pin — RoHS Compliant									
3300	50 x 50	5.20	7.28	0.075	P13206-ND	22.65	20.14	15.11	ECE-P2DA332HA
3900	50 x 50	5.65	7.91	0.064	P13207-ND	24.99	22.22	16.67	ECE-P2DA392HX
4700	50 x 63	6.48	9.07	0.053	P13208-ND	27.14	24.13	18.10	ECE-P2DA472HX
5600	50 x 92	7.68	10.75	0.044	P13209-ND	29.32	26.07	19.55	ECE-P2DA562HA
6800	50 x 92	8.46	11.84	0.034	P13210-ND	32.18	28.61	21.46	ECE-P2DA682HX
8200	50 x 105	9.56	13.38	0.028	P13211-ND	36.47	32.42	24.32	ECE-P2DA822HA
250WV DC • 5 Pin — RoHS Compliant									
2200	50 x 50	4.35	6.09	0.098	P13212-ND	25.63	22.78	17.09	ECE-P2EA222HA
2700	50 x 50	4.80	6.72	0.080	P13213-ND	27.79	24.70	18.53	ECE-P2EA272HX
3300	50 x 63	5.48	7.67	0.065	P13214-ND	30.27	26.91	20.18	ECE-P2EA332HA
3900	50 x 80	6.10	8.54	0.055	P13215-ND	32.60	28.98	21.74	ECE-P2EA392HA
4300	50 x 92	6.67	9.34	0.050	P13216-ND	33.05	29.38	22.04	ECE-P2EA432HA
4700	50 x 92	6.93	9.70	0.046	P13217-ND	35.89	31.90	23.93	ECE-P2EA472HX
5600	50 x 105	7.67	10.74	0.039	P13218-ND	38.72	34.42	25.82	ECE-P2EA562HA
400WV DC • 5 Pin — RoHS Compliant									
820	40 x 50	2.58	3.61	0.202	P13189-ND	13.64	12.13	9.10	ECE-T2GA821FA
820	50 x 50	3.15	4.41	0.202	P13219-ND	25.51	22.68	17.01	ECE-P2GA821HA
1000	50 x 50	3.45	4.83	0.166	P13220-ND	26.63	23.67	17.76	ECE-P2GA102HA
1200	50 x 63	4.22	5.91	0.152	P13221-ND	28.98	25.76	19.32	ECE-P2GA122HA
1500	50 x 80	5.22	7.31	0.122	P13222-ND	31.12	27.67	20.75	ECE-P2GA152HA
1600	50 x 92	5.69	7.97	0.114	P13223-ND	34.82	30.96	23.22	ECE-P2GA162HA
1800	40 x 105	5.06	7.08	0.101	P13190-ND	36.26	32.23	24.18	ECE-T2GA182FA
1800	50 x 80	5.50	7.70	0.101	P13224-ND	38.32	34.07	25.55	ECE-P2GA182HX
2200	50 x 92	6.55	9.17	0.082	P13225-ND	40.20	35.74	26.81	ECE-P2GA222HA
450WV DC • 5 Pin — RoHS Compliant									
680	50 x 50	2.90	4.06	0.244	P13226-ND	27.12	24.11	18.09	ECE-P2WA681HA
820	50 x 50	3.42	4.79	0.222	P13227-ND	28.72	25.54	19.15	ECE-P2WA821HX
1000	50 x 63	3.74	5.24	0.172	P13228-ND	31.44	27.95	20.97	ECE-P2WA102HA
1200	50 x 80	4.70	6.58	0.152	P13229-ND	34.20	30.40	22.80	ECE-P2WA122HA
1300	50 x 92	5.18	7.25	0.140	P13230-ND	35.67	31.71	23.78	ECE-P2WA132HA
1500	50 x 105	6.03	8.44	0.122	P13231-ND	38.45	34.19	25.64	ECE-P2WA152HA
1800	50 x 105	6.23	8.72	0.101	P13232-ND	41.75	37.12	27.84	ECE-P2WA182HA

◆ ***RoHS Compliant***

Panasonic® AA-Series Computer Grade Capacitors

CROSS REFERENCES

Sprague: 36D, 36DX, 36DE **Mallory:** CGS, CGH **GE:** 23A, 23M **UCC:** 36DA
Philips: 3186 **CDE:** DCMX

Features:

- Standard 10-32, high post screw threads (included)
- High ripple current capability with low ESR

Specifications:

- Working Voltage: 450VDC
- Capacitance Tolerance: -10/+50%
- Operating Temperature: -40°C ~ 85°C
- Rated Endurance: 85°C for 3000 hours
- DC Leakage Current: $3\sqrt{CV}$ (µA) or 5mA maximum after 5 minutes at 20°C

Ripple Current Frequency Correction Factors

Frequency (Hz):	50	60	100 ~ 120	300 ~ 360	1K	10K ~ 50K
450 WV:	0.75	0.8	1.0	1.2	1.25	1.4

Ripple Current Temperature Correction Factors

Maximum Temperature	85°C	70°C	60°C	≤45°C
G-AA	1.0	1.6	2.0	2.2

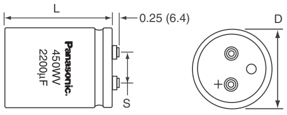

Rated Voltage:	450
Surge Voltage:	500

WV DC	Cap. (µF)	120Hz, 20°C ESR (Ω)	120Hz, 85°C R.C. (A)	Dimensions – Inch (mm) D	L	S	Digi-Key Part No.	Price Each 1	10	50	200	Panasonic Part No.
450	1800	0.122	7.47	2.000 (51)	5.625 (143)	0.875 (22.2)	P10096-ND	42.28	39.48	36.93	33.11	EEG-A2W182FPE

Panasonic® VS Series Aluminum Electrolytic Capacitors, Surface Mount Type – High Temperature (260°C)

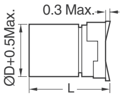

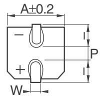

Features: • General Purpose • Life Time: 2000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** ≤ I = 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Can Size – mm (Size Code)	Peak Temperature	Duration (Temp. ≥ 255°C)	Duration (Temp. ≥ 230°C)	Reflow Frequency
ø4 ~ ø6.3, ø8 x 10.2 (B, C, D, D8, F)	260°C	5 seconds	60 seconds	2‡
ø8 x 6.2, ø10 x 10.2 (E, G)	260°C	5 seconds	60 seconds	1

‡ Capacitor must return to room temperature before the second reflow

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
-25°C/+20°C	4	3	2	2	2	2
-40°C/+20°C	8	6	4	4	3	3

Size Code	Dimensions – mm D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak Current (µA)	Size Code	Max. Ripple Current 120Hz, 85°C (mA rms)	Endurance (hours)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
6.3	22	0.30	3.0	B	29	2,000	PCE4559CT-ND	.77	1.26	2.93	10.83	PCE4559TR-ND	2,000	54.00/M	EEE-0JA220AR
	33	0.35	3.0	B	22	1,000	PCE4560CT-ND	.85	1.41	3.27	12.06	PCE4560TR-ND	2,000	60.00/M	EEE-0JA330WAR
	47	0.30	3.0	C	46	2,000	PCE4563CT-ND	.92	1.51	3.50	12.93	PCE4563TR-ND	1,000	65.00	EEE-0JA470AR
	100	0.40	6.3	C	47	1,000	PCE4556CT-ND	1.00	1.65	3.84	14.16	PCE4556TR-ND	1,000	71.00	EEE-0JA101WAR
	100	0.30	6.3	D	71	2,000	PCE4555CT-ND	1.08	1.78	4.14	15.27	PCE4555TR-ND	1,000	76.00	EEE-0JA101AP
	330	0.30	20.7	D8	188	2,000	PCE4562CT-ND	1.48	2.43	5.65	20.85	PCE4562TR-ND	900	93.60	EEE-0JA331XAP
	330	0.35	20.7	E	300	2,000	PCE4561CT-ND	1.77	2.91	6.75	24.93	PCE4561TR-ND	1,000	125.00	EEE-0JA331AP
	470	0.35	29.6	F	380	1,000	PCE4564CT-ND	2.29	3.77	8.76	32.34	PCE4564TR-ND	500	81.00	EEE-0JA471UAP
	1,000	0.35	63.0	G	700	2,000	PCE4557CT-ND	2.68	4.42	10.26	37.89	PCE4557TR-ND	500	94.50	EEE-0JA102AP
	1,500	0.50	94.5	G	750	1,000	PCE4558CT-ND	2.94	4.85	11.25	41.55	PCE4558TR-ND	500	104.00	EEE-0JA152UAP
10	22	0.30	3.0	B	28	1,000	PCE4568CT-ND	.77	1.26	2.93	10.83	PCE4568TR-ND	2,000	54.00/M	EEE-1AA220WAR
	33	0.30	3.3	B	29	1,000	PCE4572CT-ND	.85	1.41	3.27	12.06	PCE4572TR-ND	2,000	60.00/M	EEE-1AA330WAR
	33	0.22	3.3	C	43	2,000	PCE4571CT-ND	.92	1.51	3.50	12.93	PCE4571TR-ND	1,000	65.00	EEE-1AA330AR
	47	0.30	4.7	C	47	1,000	PCE4574CT-ND	1.00	1.65	3.84	14.16	PCE4574TR-ND	1,000	71.00	EEE-1AA470WAR
	100	0.30	10.0	C	50	1,000	PCE4566CT-ND	1.00	1.65	3.84	14.16	PCE4566TR-ND	1,000	71.00	EEE-1AA101WAR
	100	0.26	10.0	D	70	2,000	PCE4565CT-ND	1.08	1.78	4.14	15.27	PCE4565TR-ND	1,000	76.00	EEE-1AA101AP
	220	0.22	22.0	D8	173	2,000	PCE4570CT-ND	1.48	2.43	5.65	20.85	PCE4570TR-ND	900	93.60	EEE-1AA221XAP
	220	0.26	22.0	E	250	2,000	PCE4569CT-ND	1.77	2.91	6.75	24.93	PCE4569TR-ND	1,000	125.00	EEE-1AA221AP
	330	0.26	33.0	F	390	2,000	PCE4573CT-ND	2.29	3.77	8.76	32.34	PCE4573TR-ND	500	81.00	EEE-1AA331AP
	470	0.26	47.0	F	390	1,000	PCE4576CT-ND	2.29	3.77	8.76	32.34	PCE4576TR-ND	500	81.00	EEE-1AA471UAP
	470	0.26	47.0	G	400	2,000	PCE4575CT-ND	2.68	4.42	10.26	37.89	PCE4575TR-ND	500	94.50	EEE-1AA471AP
	1,000	0.35	100.0	G	580	1,000	PCE4567CT-ND	2.68	4.42	10.26	37.89	PCE4567TR-ND	500	94.50	EEE-1AA102UAP
16	10	0.16	3.0	B	28	2,000	PCE4577CT-ND	.77	1.26	2.93	10.83	PCE4577TR-ND	2,000	54.00/M	EEE-1CA100AR
	22	0.26	3.5	B	28	1,000	PCE4581CT-ND	.85	1.41	3.27	12.06	PCE4581TR-ND	2,000	60.00/M	EEE-1CA220WAR
	22	0.16	3.5	C	39	2,000	PCE4580CT-ND	.92	1.51	3.50	12.93	PCE4580TR-ND	2,000	65.00/M	EEE-1CA220AR
	33	0.26	5.2	C	35	1,000	PCE4584CT-ND	1.00	1.65	3.84	14.16	PCE4584TR-ND	1,000	71.00	EEE-1CA330WAR
	47	0.26	7.5	C	39	1,000	PCE4588CT-ND	1.00	1.65	3.84	14.16	PCE4588TR-ND	1,000	71.00	EEE-1CA470WAR
	47	0.16	7.5	D	70	2,000	PCE4587CT-ND	1.08	1.78	4.14	15.27	PCE4587TR-ND	1,000	76.00	EEE-1CA470AP
	100	0.26	16.0	D	70	1,000	PCE4579CT-ND	1.28	2.10	4.88	18.00	PCE4579TR-ND	1,000	90.00	EEE-1CA101WAP
	100	0.20	16.0	E	200	2,000	PCE4578CT-ND	1.77	2.91	6.75	24.93	PCE4578TR-ND	1,000	125.00	EEE-1CA101AP
	220	0.20	35.2	D8	162	2,000	PCE4583CT-ND	1.48	2.43	5.65	20.85	PCE4583TR-ND	900	93.60	EEE-1CA221XAP
	220	0.20	35.2	F	280	1,000	PCE4582CT-ND	2.29	3.77	8.76	32.34	PCE4582TR-ND	500	81.00	EEE-1CA221UAP
	330	0.20	52.8	F	320	1,000	PCE4586CT-ND	2.29	3.77	8.76	32.34	PCE4586TR-ND	500	81.00	EEE-1CA331UAP
	330	0.20	52.8	G	380	2,000	PCE4585CT-ND	2.68	4.42	10.26	37.89	PCE4585TR-ND	500	94.50	EEE-1CA331AP
	470	0.26	75.2	F	350	1,000	PCE4590CT-ND	2.49	4.10	9.51	35.13	PCE4590TR-ND	500	88.00	EEE-1CA471UAP
	470	0.20	75.2	G	420	2,000	PCE4589CT-ND	2.68	4.42	10.26	37.89	PCE4589TR-ND	500	94.50	EEE-1CA471AP
25	4.7	0.14	3.0	B	22	2,000	PCE4606CT-ND	.77	1.26	2.93	10.83	PCE4606TR-ND	2,000	54.00/M	EEE-1EA4R7AR
	10	0.20	3.0	B	22	1,000	PCE4592CT-ND	.85	1.41	3.27	12.06	PCE4592TR-ND	2,000	60.00/M	EEE-1EA100WAR
	10	0.14	3.0	C	28	2,000	PCE4591CT-ND	.92	1.51	3.50	12.93	PCE4591TR-ND	1,000	65.00	EEE-1EA100AR
	22	0.20	5.5	C	35	1,000	PCE4597CT-ND	1.00	1.65	3.84	14.16	PCE4597TR-ND	1,000	71.00	EEE-1EA220WAR
	22	0.14	5.5	D	55	2,000	PCE4596CT-ND	1.08	1.78	4.14	15.27	PCE4596TR-ND	1,000	76.00	EEE-1EA220AP
	33	0.20	8.2	C	42	1,000	PCE4601CT-ND	1.00	1.65	3.84	14.16	PCE4601TR-ND	1,000	71.00	EEE-1EA330WAR
	33	0.14	8.2	D	65	2,000	PCE4600CT-ND	1.08	1.78	4.14	15.27	PCE4600TR-ND	1,000	76.00	EEE-1EA330AP
	47	0.20	11.7	D	70	1,000	PCE4604CT-ND	1.28	2.10	4.88	18.00	PCE4604TR-ND	1,000	90.00	EEE-1EA470WAP
	100	0.16	25.0	D8	143	2,000	PCE4595CT-ND	1.48	2.43	5.65	20.85	PCE4595TR-ND	900	93.60	EEE-1EA101XAP
	100	0.16	25.0	E	91	1,000	PCE4594CT-ND	1.77	2.91	6.75	24.93	PCE4594TR-ND	1,000	125.00	EEE-1EA101UAP
	100	0.16	25.0	F	180	2,000	PCE4593CT-ND	2.29	3.77	8.76	32.34	PCE4593TR-ND	500	81.00	EEE-1EA101AP

(Continued)

Panasonic® VS Series Aluminum Electrolytic Capacitors, Surface Mount Type – High Temperature (260°C) *(Cont.)*

RoHS COMPLIANT

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak Current (µA)	Size Code	Max. Ripple Current 120Hz, 85°C (mA rms)	Endurance (hours)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
25	220	0.20	55.0	F	230	1,000	PCE4599CT-ND	2.49	4.10	9.51	35.13	PCE4599TR-ND	500	88.00	EEE-1EA221UAP
	220	0.16	55.0	G	310	2,000	PCE4598CT-ND	2.68	4.42	10.26	37.89	PCE4598TR-ND	500	94.50	EEE-1EA221AP
	330	0.20	82.5	F	270	1,000	PCE4603CT-ND	2.49	4.10	9.51	35.13	PCE4603TR-ND	500	88.00	EEE-1EA331UAP
	330	0.16	82.5	G	340	2,000	PCE4602CT-ND	2.68	4.42	10.26	37.89	PCE4602TR-ND	500	94.50	EEE-1EA331AP
	470	0.25	117.5	G	380	1,000	PCE4605CT-ND	2.94	4.85	11.25	41.55	PCE4605TR-ND	500	104.00	EEE-1EA471UAP
35	4.7	0.12	3.0	B	22	2,000	PCE4643CT-ND	.77	1.26	2.93	10.83	PCE4643TR-ND	2,000	54.00/M	EEE-1VA4R7AR
	10	0.12	3.0	C	30	2,000	PCE4629CT-ND	.92	1.51	3.50	12.93	PCE4629TR-ND	1,000	65.00	EEE-1VA100AR
	10	0.16	3.5	B	22	1,000	PCE4630CT-ND	.85	1.41	3.27	12.06	PCE4630TR-ND	2,000	60.00/M	EEE-1VA100WAR
	22	0.16	7.7	C	36	1,000	PCE4635CT-ND	1.00	1.65	3.84	14.16	PCE4635TR-ND	1,000	71.00	EEE-1VA220WAR
	22	0.12	7.7	D	60	2,000	PCE4634CT-ND	1.08	1.78	4.14	15.27	PCE4634TR-ND	1,000	76.00	EEE-1VA220AP
	33	0.16	11.5	D	60	1,000	PCE4639CT-ND	1.28	2.10	4.88	18.00	PCE4639TR-ND	1,000	90.00	EEE-1VA330WAP
	33	0.14	11.5	E	130	2,000	PCE4638CT-ND	1.77	2.91	6.75	24.93	PCE4638TR-ND	1,000	125.00	EEE-1VA330AP
	47	0.16	16.4	D	70	1,000	PCE4642CT-ND	1.28	2.10	4.88	18.00	PCE4642TR-ND	1,000	90.00	EEE-1VA470WAP
	47	0.14	16.4	E	165	2,000	PCE4641CT-ND	1.77	2.91	6.75	24.93	PCE4641TR-ND	1,000	125.00	EEE-1VA470AP
	100	0.14	35.0	D8	132	2,000	PCE4633CT-ND	1.48	2.43	5.65	20.85	PCE4633TR-ND	900	93.60	EEE-1VA101XAP
	100	0.14	35.0	F	140	1,000	PCE4632CT-ND	2.29	3.77	8.76	32.34	PCE4632TR-ND	500	81.00	EEE-1VA101UAP
	100	0.14	35.0	G	210	2,000	PCE4631CT-ND	2.68	4.42	10.26	37.89	PCE4631TR-ND	500	94.50	EEE-1VA101AP
	220	0.14	77.0	F	200	1,000	PCE4637CT-ND	2.49	4.10	9.51	35.13	PCE4637TR-ND	500	88.00	EEE-1VA221UAP
	220	0.14	77.0	G	310	2,000	PCE4636CT-ND	2.68	4.42	10.26	37.89	PCE4636TR-ND	500	94.50	EEE-1VA221AP
	330	0.30	115.5	G	350	1,000	PCE4640CT-ND	2.94	4.85	11.25	41.55	PCE4640TR-ND	500	104.00	EEE-1VA331UAP
50	0.1	0.12	3.0	B	1	2,000	PCE4625CT-ND	.77	1.26	2.93	10.83	PCE4625TR-ND	2,000	54.00/M	EEE-1HAR10AR
	0.22	0.12	3.0	B	2	2,000	PCE4626CT-ND	.77	1.26	2.93	10.83	PCE4626TR-ND	2,000	54.00/M	EEE-1HAR22AR
	0.33	0.12	3.0	B	3	2,000	PCE4627CT-ND	.77	1.26	2.93	10.83	PCE4627TR-ND	2,000	54.00/M	EEE-1HAR33AR
	0.47	0.12	3.0	B	5	2,000	PCE4628CT-ND	.77	1.26	2.93	10.83	PCE4628TR-ND	2,000	54.00/M	EEE-1HAR47AR
	1	0.12	3.0	B	10	2,000	PCE4611CT-ND	.77	1.26	2.93	10.83	PCE4611TR-ND	2,000	54.00/M	EEE-1HA1R0AR
	2.2	0.12	3.0	B	16	2,000	PCE4615CT-ND	.77	1.26	2.93	10.83	PCE4615TR-ND	2,000	54.00/M	EEE-1HA2R2AR
	3.3	0.12	3.0	B	16	2,000	PCE4619CT-ND	.77	1.26	2.93	10.83	PCE4619TR-ND	2,000	54.00/M	EEE-1HA3R3AR
	4.7	0.14	2.3	B	18	1,000	PCE4624CT-ND	.85	1.41	3.27	12.06	PCE4624TR-ND	2,000	60.00/M	EEE-1HA4R7WAR
	4.7	0.12	3.0	C	23	2,000	PCE4623CT-ND	.92	1.51	3.50	12.93	PCE4623TR-ND	1,000	65.00	EEE-1HA4R7AR
	10	0.14	5.0	C	27	1,000	PCE4608CT-ND	1.00	1.65	3.84	14.16	PCE4608TR-ND	1,000	71.00	EEE-1HA100WAR
	10	0.12	5.0	D	35	2,000	PCE4607CT-ND	1.08	1.78	4.14	15.27	PCE4607TR-ND	1,000	76.00	EEE-1HA100AP
	22	0.14	11.0	D	40	1,000	PCE4613CT-ND	1.28	2.10	4.88	18.00	PCE4613TR-ND	1,000	90.00	EEE-1HA220WAP
	22	0.12	11.0	E	120	2,000	PCE4612CT-ND	1.77	2.91	6.75	24.93	PCE4612TR-ND	1,000	125.00	EEE-1HA220AP
	33	0.14	16.5	D8	65	2,000	PCE4618CT-ND	1.48	2.43	5.65	20.85	PCE4618TR-ND	900	93.60	EEE-1HA330XAP
	33	0.12	16.5	E	65	1,000	PCE4617CT-ND	1.77	2.91	6.75	24.93	PCE4617TR-ND	1,000	125.00	EEE-1HA330UAP
	33	0.12	16.5	F	110	2,000	PCE4616CT-ND	2.29	3.77	8.76	32.34	PCE4616TR-ND	500	81.00	EEE-1HA330AP
	47	0.14	23.5	D8	105	2,000	PCE4622CT-ND	1.48	2.43	5.65	20.85	PCE4622TR-ND	900	93.60	EEE-1HA470XAP
	47	0.12	23.5	F	110	1,000	PCE4621CT-ND	2.29	3.77	8.76	32.34	PCE4621TR-ND	500	81.00	EEE-1HA470UAP
	47	0.12	23.5	G	130	2,000	PCE4620CT-ND	2.68	4.42	10.26	37.89	PCE4620TR-ND	500	94.50	EEE-1HA470AP
	100	0.18	50.0	F	200	1,000	PCE4610CT-ND	2.49	4.10	9.51	35.13	PCE4610TR-ND	500	88.00	EEE-1HA101UAP
	100	0.12	50.0	G	250	2,000	PCE4609CT-ND	2.68	4.42	10.26	37.89	PCE4609TR-ND	500	94.50	EEE-1HA101AP
	220	0.18	100.0	G	300	1,000	PCE4614CT-ND	2.94	4.85	11.25	41.55	PCE4614TR-ND	500	104.00	EEE-1HA221UAP

Panasonic® VS Series Aluminum Electrolytic Capacitors, Surface Mount Type

RoHS COMPLIANT

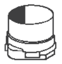

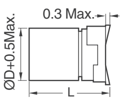

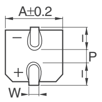

Features: • General Purpose • Life Time: 2000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Soldering: • **Reflow**: 3 ~ 6mm case 250°C for 5 seconds; 8 ~ 10mm case 235°C for 5 seconds

Following specified values:

Impedance 120Hz	Working Voltage 4.0V	6.3V	10V	16V	25V	35V	50V	63V	100V
-25°C/+20°C	7	4	3	2	2	2	2	3	3
-40°C/+20°C	15	8	6	4	4	3	3	4	4

Size Code	Dimensions – mm D	L	A	l	W	P
A	3.0	5.4	3.3	1.5	0.55±0.1	0.6
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak Current (µA)	Size Code	Max. Ripple Current 120Hz, 85°C (mA rms)	Endurance (hours)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
4	22	0.37	3.0	A	19	1,000	PCE3851CT-ND	.82	1.34	3.12	11.52	PCE3851TR-ND	2,000	58.00/M	EEE-0GS220SR
	33	0.35	3.0	B	26	1,000	PCE3849CT-ND	.68	1.13	2.62	9.66	PCE3849TR-ND	2,000	48.00/M	EEE-0GA330SR
	47	0.35	3.0	B	34	1,000	PCE3850CT-ND	.68	1.13	2.62	9.66	PCE3850TR-ND	2,000	48.00/M	EEE-0GA470SR
	100	0.35	4.0	C	61	1,000	PCE3847CT-ND	.82	1.34	3.12	11.52	PCE3847TR-ND	1,000	58.00	EEE-0GA101SR
	220	0.35	8.8	D	82	1,000	PCE3848CT-ND	.96	1.58	3.67	13.56	PCE3848TR-ND	1,000	68.00	EEE-0GA221SP
6.3	22	0.35	3.0	A	20	1,000	PCE3865CT-ND	.82	1.34	3.12	11.52	PCE3865TR-ND	2,000	58.00/M	EEE-0JS220WR
	22	0.26	3.0	B	29	2,000	PCE3857CT-ND	.68	1.13	2.62	9.66	PCE3857TR-ND	2,000	48.00/M	EEE-0JA220SR
	33	0.35	3.0	B	22	1,000	PCE3859CT-ND	.76	1.25	2.89	10.68	PCE3859TR-ND	2,000	53.00/M	EEE-0JA330WR
	47	0.35	3.0	B	36	1,000	PCE3863CT-ND	.76	1.25	2.89	10.68	PCE3863TR-ND	2,000	53.00/M	EEE-0JA470WR
	47	0.26	3.0	C	46	2,000	PCE3862CT-ND	.82	1.34	3.12	11.52	PCE3862TR-ND	1,000	58.00	EEE-0JA470SR
	100	0.35	6.3	C	47	1,000	PCE3853CT-ND	.89	1.46	3.40	12.54	PCE3853TR-ND	1,000	63.00	EEE-0JA101WR
	100	0.26	6.3	D	71	2,000	PCE3852CT-ND	.96	1.58	3.67	13.56	PCE3852TR-ND	1,000	68.00	EEE-0JA101SP
	220	0.35	13.9	D	74	1,000	PCE3858CT-ND	1.13	1.87	4.34	16.02	PCE3858TR-ND	1,000	80.00	EEE-0JA221WP
	330	0.26	20.8	D8	188	2,000	PCE3861CT-ND	1.31	2.16	5.01	18.48	PCE3861TR-ND	900	82.80	EEE-0JA331XP
	330	0.35	20.8	E	300	2,000	PCE3860CT-ND	1.57	2.59	6.01	22.20	PCE3860TR-ND	1,000	111.00	EEE-0JA331P
	470	0.35	29.6	F	380	2,000	PCE3864CT-ND	2.04	3.36	7.79	28.77	PCE3864TR-ND	500	72.00	EEE-0JA471P
	1000	0.35	63.0	F	500	2,000	PCE3855CT-ND	2.21	3.64	8.46	31.23	PCE3855TR-ND	500	78.00	EEE-0JA102UP
	1000	0.35	63.0	G	700	2,000	PCE3854CT-ND	2.39	3.93	9.13	33.72	PCE3854TR-ND	500	84.50	EEE-0JA102P
	1500	0.35	94.5	G	750	2,000	PCE3856CT-ND	2.62	4.32	10.02	36.99	PCE3856TR-ND	500	92.50	EEE-0JA152P
10	22	0.30	3.0	B	28	1,000	PCE3869CT-ND	.68	1.13	2.62	9.66	PCE3869TR-ND	2,000	48.00/M	EEE-1AA220WR
	33	0.30	3.3	B	29	1,000	PCE3873CT-ND	.76	1.25	2.89	10.68	PCE3873TR-ND	2,000	53.00/M	EEE-1AA330WR
	33	0.20	3.3	C	43	2,000	PCE3872CT-ND	.82	1.34	3.12	11.52	PCE3872TR-ND	1,000	58.00	EEE-1AA330SR
	47	0.30	4.7	C	47	1,000	PCE3875CT-ND	.89	1.46	3.40	12.54	PCE3875TR-ND	1,000	63.00	EEE-1AA470WR
	100	0.30	10.0	C	50	1,000	PCE3867CT-ND	.89	1.46	3.40	12.54	PCE3867TR-ND	1,000	63.00	EEE-1AA101WR
	100	0.26	10.0	D	70	2,000	PCE3866CT-ND	.96	1.58	3.67	13.56	PCE3866TR-ND	1,000	68.00	EEE-1AA101SP
	220	0.20	22.0	D8	173	2,000	PCE3871CT-ND	1.31	2.16	5.01	18.48	PCE3871TR-ND	900	82.80	EEE-1AA221XP
	220	0.26	22.0	E	250	2,000	PCE3870CT-ND	1.57	2.59	6.01	22.20	PCE3870TR-ND	1,000	111.00	EEE-1AA221P

(Continued)

Panasonic® VS Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak Current (µA)	Size Code	Max. Ripple Current 120Hz, 85°C (mA rms)	Endurance (hours)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Qty.	Pricing	
10	330	0.26	33.0	F	390	2,000	PCE3874CT-ND	2.04	3.36	7.79	28.77	PCE3874TR-ND	500	72.00	EEE-1AA331P
	470	0.26	47.0	F	390	2,000	PCE3877CT-ND	2.04	3.36	7.79	28.77	PCE3877TR-ND	500	72.00	EEE-1AA471UP
	470	0.26	47.0	G	400	2,000	PCE3876CT-ND	2.39	3.93	9.13	33.72	PCE3876TR-ND	500	84.50	EEE-1AA471P
	1000	0.26	100.0	G	580	2,000	PCE3868CT-ND	2.39	3.93	9.13	33.72	PCE3868TR-ND	500	84.50	EEE-1AA102P
16	10	0.18	3.0	A	20	1,000	PCE3893CT-ND	.82	1.34	3.12	11.52	PCE3893TR-ND	2,000	58.00/M	EEE-1CS100SR
	10	0.16	3.0	B	28	2,000	PCE3878CT-ND	.68	1.13	2.62	9.66	PCE3878TR-ND	2,000	48.00/M	EEE-1CA100SR
	22	0.26	3.5	B	28	1,000	PCE3882CT-ND	.76	1.25	2.89	10.68	PCE3882TR-ND	2,000	53.00/M	EEE-1CA220WR
	22	0.16	3.5	C	39	2,000	PCE3881CT-ND	.82	1.34	3.12	11.52	PCE3881TR-ND	1,000	58.00	EEE-1CA220SR
	33	0.26	5.3	C	35	1,000	PCE3886CT-ND	.89	1.46	3.40	12.54	PCE3886TR-ND	1,000	63.00	EEE-1CA330WR
	47	0.26	7.5	C	39	1,000	PCE3890CT-ND	.89	1.46	3.40	12.54	PCE3890TR-ND	1,000	63.00	EEE-1CA470WR
	47	0.16	7.5	D	70	2,000	PCE3889CT-ND	.96	1.58	3.67	13.56	PCE3889TR-ND	1,000	68.00	EEE-1CA470SP
	100	0.26	16.0	D	70	1,000	PCE3880CT-ND	1.13	1.87	4.34	16.02	PCE3880TR-ND	1,000	80.00	EEE-1CA101WP
	100	0.20	16.0	E	200	2,000	PCE3879CT-ND	1.57	2.59	6.01	22.20	PCE3879TR-ND	1,000	111.00	EEE-1CA101P
	220	0.16	35.2	D8	162	2,000	PCE3885CT-ND	1.31	2.16	5.01	18.48	PCE3885TR-ND	900	82.80	EEE-1CA221XP
	220	0.20	35.2	E	200	2,000	PCE3884CT-ND	1.57	2.59	6.01	22.20	PCE3884TR-ND	1,000	111.00	EEE-1CA221UP
	220	0.20	35.2	F	280	2,000	PCE3883CT-ND	2.04	3.36	7.79	28.77	PCE3883TR-ND	500	72.00	EEE-1CA221P
	330	0.20	52.8	F	320	2,000	PCE3888CT-ND	2.04	3.36	7.79	28.77	PCE3888TR-ND	500	72.00	EEE-1CA331UP
	330	0.20	52.8	G	380	2,000	PCE3887CT-ND	2.39	3.93	9.13	33.72	PCE3887TR-ND	500	84.50	EEE-1CA331P
	470	0.20	75.2	F	350	2,000	PCE3892CT-ND	2.21	3.64	8.46	31.23	PCE3892TR-ND	500	78.00	EEE-1CA471UP
	470	0.20	75.2	G	420	2,000	PCE3891CT-ND	2.39	3.93	9.13	33.72	PCE3891TR-ND	500	84.50	EEE-1CA471P
25	4.7	0.16	3.0	A	12	1,000	PCE3911CT-ND	.82	1.34	3.12	11.52	PCE3911TR-ND	2,000	58.00/M	EEE-1ES4R7SR
	4.7	0.14	3.0	B	22	2,000	PCE3910CT-ND	.68	1.13	2.62	9.66	PCE3910TR-ND	2,000	48.00/M	EEE-1EA4R7SR
	10	0.20	3.0	B	22	1,000	PCE3895CT-ND	.76	1.25	2.89	10.68	PCE3895TR-ND	2,000	53.00/M	EEE-1EA100WR
	10	0.14	3.0	C	28	2,000	PCE3894CT-ND	.82	1.34	3.12	11.52	PCE3894TR-ND	1,000	58.00	EEE-1EA100SR
	22	0.20	5.5	C	35	1,000	PCE3900CT-ND	.89	1.46	3.40	12.54	PCE3900TR-ND	1,000	63.00	EEE-1EA220WR
	22	0.14	5.5	D	55	2,000	PCE3899CT-ND	.96	1.58	3.67	13.56	PCE3899TR-ND	1,000	68.00	EEE-1EA220SP
	33	0.20	8.3	C	42	1,000	PCE3904CT-ND	.89	1.46	3.40	12.54	PCE3904TR-ND	1,000	63.00	EEE-1EA330WR
	33	0.14	8.3	D	65	2,000	PCE3903CT-ND	.96	1.58	3.67	13.56	PCE3903TR-ND	1,000	68.00	EEE-1EA330SP
	47	0.20	11.8	D	70	1,000	PCE3908CT-ND	1.13	1.87	4.34	16.02	PCE3908TR-ND	1,000	80.00	EEE-1EA470WP
	100	0.14	25.0	D8	143	2,000	PCE3898CT-ND	1.31	2.16	5.01	18.48	PCE3898TR-ND	900	82.80	EEE-1EA101XP
	100	0.16	25.0	E	91	2,000	PCE3897CT-ND	1.57	2.59	6.01	22.20	PCE3897TR-ND	1,000	111.00	EEE-1EA101UP
	100	0.16	25.0	F	180	2,000	PCE3896CT-ND	2.04	3.36	7.79	28.77	PCE3896TR-ND	500	72.00	EEE-1EA101P
	220	0.16	55.0	F	230	2,000	PCE3902CT-ND	2.21	3.64	8.46	31.23	PCE3902TR-ND	500	78.00	EEE-1EA221UP
	220	0.16	55.0	G	310	2,000	PCE3901CT-ND	2.39	3.93	9.13	33.72	PCE3901TR-ND	500	84.50	EEE-1EA221P
	330	0.16	82.5	F	270	2,000	PCE3906CT-ND	2.21	3.64	8.46	31.23	PCE3906TR-ND	500	78.00	EEE-1EA331UP
	330	0.16	82.5	G	340	2,000	PCE3905CT-ND	2.39	3.93	9.13	33.72	PCE3905TR-ND	500	84.50	EEE-1EA331P
	470	0.16	117.5	G	380	2,000	PCE3909CT-ND	2.62	4.32	10.02	36.99	PCE3909TR-ND	500	92.50	EEE-1EA471P
35	2.2	0.14	3.0	A	8	1,000	PCE3963CT-ND	.82	1.34	3.12	11.52	PCE3963TR-ND	2,000	58.00/M	EEE-1VS2R2SR
	3.3	0.14	3.0	A	10	1,000	PCE3964CT-ND	.82	1.34	3.12	11.52	PCE3964TR-ND	2,000	58.00/M	EEE-1VS3R3SR
	4.7	0.12	3.0	B	22	2,000	PCE3962CT-ND	.68	1.13	2.62	9.66	PCE3962TR-ND	2,000	48.00/M	EEE-1VA4R7SR
	10	0.16	3.5	B	22	1,000	PCE3948CT-ND	.76	1.25	2.89	10.68	PCE3948TR-ND	2,000	53.00/M	EEE-1VA100WR
	10	0.12	3.5	C	30	2,000	PCE3947CT-ND	.82	1.34	3.12	11.52	PCE3947TR-ND	1,000	58.00	EEE-1VA100SR
	22	0.16	7.7	C	36	1,000	PCE3953CT-ND	.89	1.46	3.40	12.54	PCE3953TR-ND	1,000	63.00	EEE-1VA220WR
	22	0.12	7.7	D	60	2,000	PCE3952CT-ND	.96	1.58	3.67	13.56	PCE3952TR-ND	1,000	68.00	EEE-1VA220SP
	33	0.16	11.6	D	60	1,000	PCE3958CT-ND	1.13	1.87	4.34	16.02	PCE3958TR-ND	1,000	80.00	EEE-1VA330WP
	33	0.14	11.6	E	130	2,000	PCE3956CT-ND	1.57	2.59	6.01	22.20	PCE3956TR-ND	1,000	111.00	EEE-1VA330P
	47	0.16	16.5	D	70	1,000	PCE3961CT-ND	1.13	1.87	4.34	16.02	PCE3961TR-ND	1,000	80.00	EEE-1VA470WP
	47	0.14	16.5	E	165	2,000	PCE3960CT-ND	1.57	2.59	6.01	22.20	PCE3960TR-ND	1,000	111.00	EEE-1VA470P
	100	0.12	35.0	D8	132	2,000	PCE3951CT-ND	1.31	2.16	5.01	18.48	PCE3951TR-ND	900	82.80	EEE-1VA101XP
	100	0.14	35.0	F	140	2,000	PCE3950CT-ND	2.04	3.36	7.79	28.77	PCE3950TR-ND	500	72.00	EEE-1VA101UP
	100	0.14	35.0	G	210	2,000	PCE3949CT-ND	2.39	3.93	9.13	33.72	PCE3949TR-ND	500	84.50	EEE-1VA101P
	220	0.14	77.0	F	200	2,000	PCE3955CT-ND	2.21	3.64	8.46	31.23	PCE3955TR-ND	500	78.00	EEE-1VA221UP
	220	0.14	77.0	G	310	2,000	PCE3954CT-ND	2.39	3.93	9.13	33.72	PCE3954TR-ND	500	84.50	EEE-1VA221P
	330	0.14	115.5	G	350	2,000	PCE3959CT-ND	2.62	4.32	10.02	36.99	PCE3959TR-ND	500	92.50	EEE-1VA331P
50	0.1	0.14	3.0	A	1	1,000	PCE3936CT-ND	.82	1.34	3.12	11.52	PCE3936TR-ND	2,000	58.00/M	EEE-1HS0R1SR
	0.1	0.12	3.0	B	1	2,000	PCE3913CT-ND	.68	1.13	2.62	9.66	PCE3913TR-ND	2,000	48.00/M	EEE-1HA0R1SR
	0.22	0.14	3.0	A	2	1,000	PCE3938CT-ND	.82	1.34	3.12	11.52	PCE3938TR-ND	2,000	58.00/M	EEE-1HSR22SR
	0.22	0.12	3.0	B	2	2,000	PCE3932CT-ND	.68	1.13	2.62	9.66	PCE3932TR-ND	2,000	48.00/M	EEE-1HAR22SR
	0.33	0.14	3.0	A	3	1,000	PCE3939CT-ND	.82	1.34	3.12	11.52	PCE3939TR-ND	2,000	58.00/M	EEE-1HSR33SR
	0.33	0.12	3.0	B	3	2,000	PCE3933CT-ND	.68	1.13	2.62	9.66	PCE3933TR-ND	2,000	48.00/M	EEE-1HAR33SR
	0.47	0.14	3.0	A	5	1,000	PCE3940CT-ND	.82	1.34	3.12	11.52	PCE3940TR-ND	2,000	58.00/M	EEE-1HSR47SR
	0.47	0.12	3.0	B	5	2,000	PCE3934CT-ND	.68	1.13	2.62	9.66	PCE3934TR-ND	2,000	48.00/M	EEE-1HAR47SR
	1	0.14	3.0	A	8	1,000	PCE3935CT-ND	.82	1.34	3.12	11.52	PCE3935TR-ND	2,000	58.00/M	EEE-1HS010SR
	1	0.12	3.0	B	10	2,000	PCE3912CT-ND	.68	1.13	2.62	9.66	PCE3912TR-ND	2,000	48.00/M	EEE-1HA010SR
	2.2	0.14	3.0	A	10	1,000	PCE3937CT-ND	.82	1.34	3.12	11.52	PCE3937TR-ND	2,000	58.00/M	EEE-1HS2R2SR
	2.2	0.12	3.0	B	16	2,000	PCE3922CT-ND	.68	1.13	2.62	9.66	PCE3922TR-ND	2,000	48.00/M	EEE-1HA2R2SR
	3.3	0.12	3.0	B	16	2,000	PCE3926CT-ND	.68	1.13	2.62	9.66	PCE3926TR-ND	2,000	48.00/M	EEE-1HA3R3SR
	4.7	0.14	3.0	B	18	1,000	PCE3931CT-ND	.76	1.25	2.89	10.68	PCE3931TR-ND	2,000	53.00/M	EEE-1HA4R7WR
	4.7	0.12	3.0	C	23	2,000	PCE3930CT-ND	.82	1.34	3.12	11.52	PCE3930TR-ND	1,000	58.00	EEE-1HA4R7SR
	10	0.14	5.0	C	27	1,000	PCE3915CT-ND	.89	1.46	3.40	12.54	PCE3915TR-ND	1,000	63.00	EEE-1HA100WR
	10	0.12	5.0	D	35	2,000	PCE3914CT-ND	.96	1.58	3.67	13.56	PCE3914TR-ND	1,000	68.00	EEE-1HA100SP
	22	0.14	11.0	D	40	1,000	PCE3920CT-ND	1.13	1.87	4.34	16.02	PCE3920TR-ND	1,000	80.00	EEE-1HA220WP
	22	0.12	11.0	E	120	2,000	PCE3918CT-ND	1.57	2.59	6.01	22.20	PCE3918TR-ND	1,000	111.00	EEE-1HA220P
	33	0.12	16.5	D8	65	2,000	PCE3925CT-ND	1.31	2.16	5.01	18.48	PCE3925TR-ND	900	82.80	EEE-1HA330XP
	33	0.12	16.5	E	65	2,000	PCE3924CT-ND	1.57	2.59	6.01	22.20	PCE3924TR-ND	1,000	111.00	EEE-1HA330UP
	33	0.12	16.5	F	110	2,000	PCE3923CT-ND	2.04	3.36	7.79	28.77	PCE3923TR-ND	500	72.00	EEE-1HA330P
	47	0.12	23.5	D8	105	2,000	PCE3929CT-ND	1.31	2.16	5.01	18.48	PCE3929TR-ND	900	82.80	EEE-1HA470XP
	47	0.12	23.5	F	110	2,000	PCE3928CT-ND	2.04	3.36	7.79	28.77	PCE3928TR-ND	500	72.00	EEE-1HA470UP
	47	0.12	23.5	G	130	2,000	PCE3927CT-ND	2.39	3.93	9.13	33.72	PCE3927TR-ND	500	84.50	EEE-1HA470P
	100	0.12	50.0	F	200	2,000	PCE3917CT-ND	2.21	3.64	8.46	31.23	PCE3917TR-ND	500	78.00	EEE-1HA101UP
	100	0.12	50.0	G	250	2,000	PCE3916CT-ND	2.39	3.93	9.13	33.72	PCE3916TR-ND	500	84.50	EEE-1HA101P
	220	0.12	110.0	G	300	2,000	PCE3921CT-ND	2.62	4.32	10.02	36.99	PCE3921TR-ND	500	92.50	EEE-1HA221P
63	22	0.18	13.9	E	35	2,000	PCE3944CT-ND	1.75	2.88	6.69	24.69	PCE3944TR-ND	1,000	123.00	EEE-1JA220UP
	22	0.18	13.9	F	40	2,000	PCE3943CT-ND	2.24	3.69	8.57	31.65	PCE3943TR-ND	500	79.00	EEE-1JA220P
	33	0.18	20.8	F	45	2,000	PCE3945CT-ND	2.24	3.69	8.57	31.65	PCE3945TR-ND	500	79.00	EEE-1JA330P
	47	0.18	29.6	F	45	2,000	PCE3946CT-ND	2.24	3.69	8.57	31.65	PCE3946TR-ND	500	79.00	EEE-1JA470UP
	100	0.18	63.0	G	60	2,000	PCE3942CT-ND	2.62	4.32	10.02	36.99	PCE3942TR-ND	500	92.50	EEE-1JA101P
100	3.3	0.18	3.3	E	50	2,000	PCE3970CT-ND	1.75	2.88	6.69	24.69	PCE3970TR-ND	1,000	123.00	EEE-2AA3R3P
	4.7	0.18	4.7	E	50	2,000	PCE3972CT-ND	1.92	3.16	7.35	27.12	PCE3972TR-ND	1,000	136.00	EEE-2AA4R7UP
	4.7	0.18	4.7	F	80	2,000	PCE3971CT-ND	2.24	3.69	8.57	31.65	PCE3971TR-ND	500	79.00	EEE-2AA4R7P
	10	0.18	10.0	E	50	2,000	PCE3966CT-ND	1.92	3.16	7.35	27.12	PCE3966TR-ND	1,000	136.00	EEE-2AA100UP
	10	0.18	10.0	F	85	2,000	PCE3965CT-ND	2.24	3.69	8.57	31.65	PCE3965TR-ND	500	79.00	EEE-2AA100P
	22	0.18	22.0	F	70	2,000	PCE3968CT-ND	2.44	4.03	9.34	34.50	PCE3968TR-ND	500	86.50	EEE-2AA220UP
	22	0.18	22.0	G	85	2,000	PCE3967CT-ND	2.62	4.32	10.02	36.99	PCE3967TR-ND	500	92.50	EEE-2AA220P
	33	0.18	33.0	G	90	2,000	PCE3969CT-ND	2.62	4.32	10.02	36.99	PCE3969TR-ND	500	92.50	EEE-2AA330P

Panasonic® VS Series Aluminum Electrolytic Capacitors, Surface Mount Type

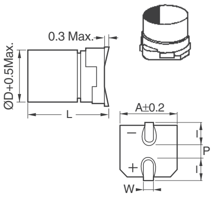

Features: • General Purpose • Life Time: 2000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Working Voltage								
	4.0V	6.3V	10V	16V	25V	35V	50V	63V	100V
-25°C/+20°C	7	4	3	2	2	2	2	3	3
-40°C/+20°C	15	8	6	4	4	3	3	4	4

Size Code	Dimensions - mm					
	D	L	A	I	W	P
A	3.0	5.4	3.3	1.5	0.55±0.1	0.6
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
D2	6.3	5.7	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Qty.	Pricing	
VS General Purpose Low Profile Series: –40°C ~ 85°C (2000 Hour Life)														
4	22	0.37	3.0	A	19	PCE3051CT-ND	1.19	1.96	4.55	16.80	PCE3051TR-ND	2,000	64.00/M	ECE-V0GS220SR
	33	0.35	3.0	B	26	PCE3052CT-ND	1.02	1.68	3.90	14.40	PCE3052TR-ND	2,000	53.00/M	ECE-V0GA330SR
	47	0.35	3.0	B	34	PCE3053CT-ND	1.02	1.68	3.90	14.40	PCE3053TR-ND	2,000	53.00/M	ECE-V0GA470SR
	100	0.35	4.0	C	61	PCE3054CT-ND	1.49	2.45	5.69	21.00	PCE3054TR-ND	1,000	64.00	ECE-V0GA101SR
	220	0.35	8.8	D	82	PCE3055CT-ND	1.36	2.24	5.20	19.20	PCE3055TR-ND	1,000	75.00	ECE-V0GA221SP
6.3	22	0.35	3.0	A	20	PCE3308CT-ND	1.19	1.96	4.55	16.80	PCE3308TR-ND	2,000	64.00/M	ECE-V0JS220WR
	22	0.26	3.0	B	29	PCE3056CT-ND	1.28	2.10	4.88	18.00	PCE3056TR-ND	2,000	53.00/M	ECE-V0JA220SR
	47	0.35	3.0	B	36	PCE3309CT-ND	1.13	1.86	4.31	15.90	PCE3309TR-ND	2,000	59.00/M	ECE-V0JA470WR
	47	0.26	3.0	C	46	PCE3057CT-ND	1.49	2.45	5.69	21.00	PCE3057TR-ND	1,000	64.00	ECE-V0JA470SR
	100	0.26	6.3	D	71	PCE3058CT-ND	1.70	2.80	6.50	24.00	PCE3058TR-ND	1,000	75.00	ECE-V0JA101SP
	220	0.35	13.8	D	74	PCE3310CT-ND	1.74	2.87	6.66	24.60	PCE3310TR-ND	1,000	89.00	ECE-V0JA221WP
	330	0.26	20.8	D8	188	PCE3351CT-ND	2.13	3.50	8.13	30.00	PCE3351TR-ND	900	91.80	ECE-V0JA331XP
	330	0.35	20.8	E	300	PCE2034CT-ND	2.76	4.55	10.56	39.00	PCE2034TR-ND	1,000	123.00	ECE-V0JA331P
	470	0.35	29.6	F	380	PCE2035CT-ND	2.74	4.52	10.48	38.70	PCE2035TR-ND	500	79.50	ECE-V0JA471P
	1000	0.35	63.0	F	500	PCE3173CT-ND	3.02	4.97	11.54	42.60	PCE3173TR-ND	500	86.50	ECE-V0JA102UP
	1000	0.35	63.0	G	700	PCE2038CT-ND	3.42	5.64	13.08	48.30	PCE2038TR-ND	500	93.00	ECE-V0JA102P
	1500	0.35	94.5	G	750	PCE3174CT-ND	3.76	6.20	14.38	53.10	PCE3174TR-ND	500	102.00	ECE-V0JA152P
10	33	0.30	3.3	B	29	PCE3175CT-ND	1.11	1.82	4.23	15.60	PCE3175TR-ND	2,000	59.00/M	ECE-V1AA330WR
	33	0.20	3.3	C	43	PCE3059CT-ND	1.19	1.96	4.55	16.80	PCE3059TR-ND	1,000	64.00	ECE-V1AA330SR
	47	0.20	4.7	D	65	PCE3060CT-ND	1.93	3.19	7.39	27.30	PCE3060TR-ND	1,000	137.00	ECE-V1AA470SP
	100	0.30	10.0	C	50	PCE3311CT-ND	1.74	2.87	6.66	24.60	PCE3311TR-ND	1,000	69.00	ECE-V1AA101WR
	100	0.26	10.0	D	70	PCE3176CT-ND	1.81	2.98	6.91	25.50	PCE3176TR-ND	1,000	75.00	ECE-V1AA101SP
	220	0.20	22.0	D8	173	PCE3352CT-ND	2.55	4.20	9.75	36.00	PCE3352TR-ND	900	91.80	ECE-V1AA221XP
	220	0.26	22.0	E	250	PCE2040CT-ND	2.55	4.20	9.75	36.00	PCE2040TR-ND	1,000	123.00	ECE-V1AA221P
	330	0.26	33.0	F	390	PCE2041CT-ND	2.74	4.52	10.48	38.70	PCE2041TR-ND	500	79.50	ECE-V1AA331P
	470	0.26	47.0	G	400	PCE2042CT-ND	3.42	5.64	13.08	48.30	PCE2042TR-ND	500	93.00	ECE-V1AA471P
	470	0.26	47.0	F	390	PCE3177CT-ND	2.74	4.52	10.48	38.70	PCE3177TR-ND	500	79.50	ECE-V1AA471UP
	1000	0.26	100.0	G	580	PCE3178CT-ND	3.42	5.64	13.08	48.30	PCE3178TR-ND	500	93.00	ECE-V1AA102P
16	10	0.18	3.0	A	20	PCE3061CT-ND	1.19	1.96	4.55	16.80	PCE3061TR-ND	2,000	64.00/M	ECE-V1CS100SR
	10	0.16	3.0	B	28	PCE3062CT-ND	1.57	2.59	6.01	22.20	PCE3062TR-ND	2,000	53.00/M	ECE-V1CA100SR
	22	0.26	3.5	B	28	PCE3179CT-ND	1.42	2.35	5.44	20.10	PCE3179TR-ND	2,000	59.00/M	ECE-V1CA220WR
	22	0.16	3.5	C	39	PCE3063CT-ND	1.49	2.45	5.69	21.00	PCE3063TR-ND	1,000	64.00	ECE-V1CA220SR
	33	0.26	5.3	C	35	PCE3180CT-ND	1.28	2.10	4.88	18.00	PCE3180TR-ND	1,000	69.00	ECE-V1CA330WR
	47	0.26	7.5	C	39	PCE3181CT-ND	1.64	2.70	6.26	23.10	PCE3181TR-ND	1,000	69.00	ECE-V1CA470WR
	47	0.16	7.5	D	70	PCE3064CT-ND	1.70	2.80	6.50	24.00	PCE3064TR-ND	1,000	75.00	ECE-V1CA470SP
	100	0.26	16.0	D	70	PCE3182CT-ND	2.13	3.50	8.13	30.00	PCE3182TR-ND	1,000	89.00	ECE-V1CA101WP
	100	0.20	16.0	E	200	PCE2043CT-ND	2.55	4.20	9.75	36.00	PCE2043TR-ND	1,000	123.00	ECE-V1CA101P
	220	0.16	35.2	D8	162	PCE3353CT-ND	3.19	5.25	12.19	45.00	PCE3353TR-ND	900	91.80	ECE-V1CA221XP
	220	0.20	35.2	E	200	PCE3275CT-ND	3.19	5.25	12.19	45.00	PCE3275TR-ND	1,000	123.00	ECE-V1CA221UP
	220	0.20	35.2	F	280	PCE2044CT-ND	3.83	6.30	14.63	54.00	PCE2044TR-ND	500	79.50	ECE-V1CA221P
	330	0.20	52.8	F	320	PCE3183CT-ND	4.04	6.65	15.44	57.00	PCE3183TR-ND	500	79.50	ECE-V1CA331UP
	330	0.20	52.8	G	380	PCE2045CT-ND	4.68	7.70	17.88	66.00	PCE2045TR-ND	500	93.00	ECE-V1CA331P
	470	0.20	75.2	F	350	PCE3184CT-ND	4.25	7.00	16.25	60.00	PCE3184TR-ND	500	86.50	ECE-V1CA471UP
	470	0.20	75.2	G	420	PCE2046CT-ND	4.68	7.70	17.88	66.00	PCE2046TR-ND	500	93.00	ECE-V1CA471P
25	4.7	0.16	3.0	A	12	PCE3065CT-ND	1.19	1.96	4.55	16.80	PCE3065TR-ND	2,000	64.00/M	ECE-V1ES4R7SR
	4.7	0.14	3.0	B	22	PCE3066CT-ND	1.02	1.68	3.90	14.40	PCE3066TR-ND	2,000	53.00/M	ECE-V1EA4R7SR
	10	0.14	3.0	C	28	PCE3067CT-ND	1.70	2.80	6.50	24.00	PCE3067TR-ND	1,000	64.00	ECE-V1EA100SR
	22	0.14	5.5	D	55	PCE3068CT-ND	1.36	2.24	5.20	19.20	PCE3068TR-ND	1,000	75.00	ECE-V1EA220SP
	33	0.20	8.3	C	42	PCE3276CT-ND	1.64	2.70	6.26	23.10	PCE3276TR-ND	1,000	69.00	ECE-V1EA330WR
	33	0.14	8.3	D	65	PCE3069CT-ND	1.70	2.80	6.50	24.00	PCE3069TR-ND	1,000	75.00	ECE-V1EA330SP
	47	0.16	11.8	D2	70	PCE3185CT-ND	1.72	2.84	6.58	24.30	PCE3185TR-ND	1,000	95.00	ECE-V1EA470UP
	100	0.14	25.0	D8	143	PCE3354CT-ND	2.55	4.20	9.75	36.00	PCE3354TR-ND	900	91.80	ECE-V1EA101XP
	100	0.16	25.0	E	91	PCE3186CT-ND	2.55	4.20	9.75	36.00	PCE3186TR-ND	1,000	123.00	ECE-V1EA101UP
	100	0.16	25.0	F	180	PCE2047CT-ND	3.19	5.25	12.19	45.00	PCE2047TR-ND	500	79.50	ECE-V1EA101P
	220	0.16	55.0	F	230	PCE3187CT-ND	3.40	5.60	13.00	48.00	PCE3187TR-ND	500	86.50	ECE-V1EA221UP
	220	0.16	55.0	G	310	PCE2048CT-ND	3.83	6.30	14.63	54.00	PCE2048TR-ND	500	93.00	ECE-V1EA221P
	330	0.16	82.5	F	270	PCE3188CT-ND	3.02	4.97	11.54	42.60	PCE3188TR-ND	500	86.50	ECE-V1EA331UP
	470	0.16	117.5	G	380	PCE3189CT-ND	4.46	7.35	17.06	63.00	PCE3189TR-ND	500	102.00	ECE-V1EA471P
35	2.2	0.14	3.0	A	8	PCE3070CT-ND	1.19	1.96	4.55	16.80	PCE3070TR-ND	2,000	64.00/M	ECE-V1VS2R2SR
	3.3	0.14	3.0	A	10	PCE3071CT-ND	1.19	1.96	4.55	16.80	PCE3071TR-ND	2,000	64.00/M	ECE-V1VS3R3SR
	4.7	0.12	3.0	B	22	PCE3072CT-ND	1.28	2.10	4.88	18.00	PCE3072TR-ND	2,000	53.00/M	ECE-V1VA4R7SR
	10	0.16	3.5	B	22	PCE3277CT-ND	1.42	2.35	5.44	20.10	PCE3277TR-ND	2,000	59.00/M	ECE-V1VA100WR
	10	0.12	3.5	C	30	PCE3073CT-ND	1.49	2.45	5.69	21.00	PCE3073TR-ND	1,000	64.00	ECE-V1VA100SR
	22	0.16	7.7	C	36	PCE3278CT-ND	1.64	2.70	6.26	23.10	PCE3278TR-ND	1,000	69.00	ECE-V1VA220WR
	22	0.12	7.7	D	60	PCE3074CT-ND	1.70	2.80	6.50	24.00	PCE3074TR-ND	1,000	75.00	ECE-V1VA220SP
	33	0.16	11.6	D	60	PCE3279CT-ND	1.74	2.87	6.66	24.60	PCE3279TR-ND	1,000	89.00	ECE-V1VA330WP
	33	0.14	11.6	D2	65	PCE3190CT-ND	1.72	2.84	6.58	24.30	PCE3190TR-ND	1,000	95.00	ECE-V1VA330UP
	33	0.14	11.6	E	130	PCE2049CT-ND	2.13	3.50	8.13	30.00	PCE2049TR-ND	1,000	123.00	ECE-V1VA330P
	47	0.16	16.5	D	70	PCE3280CT-ND	2.13	3.50	8.13	30.00	PCE3280TR-ND	1,000	89.00	ECE-V1VA470WP
	47	0.14	16.5	E	165	PCE2050CT-ND	2.55	4.20	9.75	36.00	PCE2050TR-ND	1,000	123.00	ECE-V1VA470P
	100	0.12	35.0	D8	132	PCE3355CT-ND	3.19	5.25	12.19	45.00	PCE3355TR-ND	900	91.80	ECE-V1VA101XP
	100	0.14	35.0	F	140	PCE3191CT-ND	3.83	6.30	14.63	54.00	PCE3191TR-ND	500	79.50	ECE-V1VA101UP
	100	0.14	35.0	G	210	PCE2051CT-ND	4.46	7.35	17.06	63.00	PCE2051TR-ND	500	93.00	ECE-V1VA101P
	220	0.14	77.0	F	200	PCE3192CT-ND	3.02	4.97	11.54	42.60	PCE3192TR-ND	500	86.50	ECE-V1VA221UP
	330	0.14	115.5	G	350	PCE3193CT-ND	3.76	6.20	14.38	53.10	PCE3193TR-ND	500	102.00	ECE-V1VA331P
50	0.1	0.14	3.0	A	1	PCE3075CT-ND	1.19	1.96	4.55	16.80	PCE3075TR-ND	2,000	64.00/M	ECE-V1HS0R1SR
	0.1	0.12	3.0	B	1	PCE3076CT-ND	1.06	1.75	4.06	15.00	PCE3076TR-ND	2,000	53.00/M	ECE-V1HA0R1SR
	0.22	0.14	3.0	A	2	PCE3077CT-ND	1.19	1.96	4.55	16.80	PCE3077TR-ND	2,000	64.00/M	ECE-V1HSR22SR
	0.22	0.12	3.0	B	2	PCE3078CT-ND	1.02	1.68	3.90	14.40	PCE3078TR-ND	2,000	53.00/M	ECE-V1HAR22SR
	0.33	0.14	3.0	A	3	PCE3079CT-ND	1.19	1.96	4.55	16.80	PCE3079TR-ND	2,000	64.00/M	ECE-V1HSR33SR
	0.33	0.12	3.0	B	3	PCE3080CT-ND	1.02	1.68	3.90	14.40	PCE3080TR-ND	2,000	53.00/M	ECE-V1HAR33SR
	0.47	0.14	3.0	A	5	PCE3081CT-ND	1.19	1.96	4.55	16.80	PCE3081TR-ND	2,000	64.00/M	ECE-V1HSR47SR
	0.47	0.12	3.0	B	5	PCE3082CT-ND	1.02	1.68	3.90	14.40	PCE3082TR-ND	2,000	53.00/M	ECE-V1HAR47SR
	1	0.14	3.0	A	8	PCE3083CT-ND	1.19	1.96	4.55	16.80	PCE3083TR-ND	2,000	64.00/M	ECE-V1HS010SR
	1	0.12	3.0	B	10	PCE3084CT-ND	1.06	1.75	4.06	15.00	PCE3084TR-ND	2,000	53.00/M	ECE-V1HA010SR
	2.2	0.14	3.0	A	10	PCE3085CT-ND	1.19	1.96	4.55	16.80	PCE3085TR-ND	2,000	64.00/M	ECE-V1HS2R2SR
	2.2	0.12	3.0	B	16	PCE3086CT-ND	1.02	1.68	3.90	14.40	PCE3086TR-ND	2,000	53.00/M	ECE-V1HA2R2SR
	3.3	0.12	3.0	B	16	PCE3087CT-ND	1.28	2.10	4.88	18.00	PCE3087TR-ND	2,000	53.00/M	ECE-V1HA3R3SR
	4.7	0.14	3.0	B	18	PCE3281CT-ND	1.13	1.86	4.31	15.90	PCE3281TR-ND	2,000	59.00/M	ECE-V1HA4R7WR
	4.7	0.12	3.0	C	23	PCE3088CT-ND	1.19	1.96	4.55	16.80	PCE3088TR-ND	1,000	64.00	ECE-V1HA4R7SR
	10	0.14	5.0	C	27	PCE3282CT-ND	1.70	2.80	6.50	24.00	PCE3282TR-ND	1,000	69.00	ECE-V1HA100WR
	10	0.12	5.0	D	35	PCE3089CT-ND	1.81	2.98	6.91	25.50	PCE3089TR-ND	1,000	75.00	ECE-V1HA100SP
	22	0.14	11.0	D	40	PCE3283CT-ND	2.13	3.50	8.13	30.00	PCE3283TR-ND	1,000	89.00	ECE-V1HA220WP

(Continued)

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
50	22	0.12	11.0	D2	60	PCE3194CT-ND	2.13	3.50	8.13	30.00	PCE3194TR-ND	1,000	95.00	ECE-V1HA220UP
	22	0.12	11.0	E	120	PCE2053CT-ND	2.55	4.20	9.75	36.00	PCE2053TR-ND	1,000	123.00	ECE-V1HA220P
	33	0.12	16.5	D8	65	PCE3356CT-ND	2.13	3.50	8.13	30.00	PCE3356TR-ND	900	91.80	ECE-V1HA330XP
	33	0.12	16.5	E	65	PCE3195CT-ND	2.13	3.50	8.13	30.00	PCE3195TR-ND	1,000	123.00	ECE-V1HA330UP
	33	0.12	16.5	F	110	PCE2054CT-ND	2.74	4.52	10.48	38.70	PCE2054TR-ND	500	79.50	ECE-V1HA330P
	47	0.12	23.5	D8	105	PCE3357CT-ND	2.13	3.50	8.13	30.00	PCE3357TR-ND	900	91.80	ECE-V1HA470XP
	47	0.12	23.5	F	110	PCE3196CT-ND	2.74	4.52	10.48	38.70	PCE3196TR-ND	500	79.50	ECE-V1HA470UP
	47	0.12	23.5	G	130	PCE2055CT-ND	3.55	5.85	13.57	50.10	PCE2055TR-ND	500	93.00	ECE-V1HA470P
	100	0.12	50.0	F	200	PCE3197CT-ND	3.02	4.97	11.54	42.60	PCE3197TR-ND	500	86.50	ECE-V1HA101UP
	220	0.12	110.0	G	300	PCE3198CT-ND	3.76	6.20	14.38	53.10	PCE3198TR-ND	500	102.00	ECE-V1HA221P
63	10	0.18	6.3	E	35	PCE3199CT-ND	1.72	2.84	6.58	24.30	PCE3199TR-ND	1,000	95.00	ECE-V1JA100P
	22	0.18	13.9	E	35	PCE3284CT-ND	2.68	4.41	10.24	37.80	PCE3284TR-ND	1,000	136.00	ECE-V1JA220UP
	22	0.18	13.9	F	40	PCE3200CT-ND	3.02	4.97	11.54	42.60	PCE3200TR-ND	500	87.50	ECE-V1JA220P
	33	0.18	20.8	F	45	PCE3201CT-ND	3.02	4.97	11.54	42.60	PCE3201TR-ND	500	87.50	ECE-V1JA330P
	47	0.18	29.6	G	50	PCE3202CT-ND	2.90	4.77	11.07	40.89	PCE3202TR-ND	500	102.00	ECE-V1JA470P
	100	0.18	63.0	G	60	PCE3203CT-ND	3.76	6.20	14.38	53.10	PCE3203TR-ND	500	102.00	ECE-V1JA101P
100	3.3	0.18	3.3	E	50	PCE3204CT-ND	2.25	3.71	8.61	31.80	PCE3204TR-ND	1,000	136.00	ECE-V2AA3R3P
	4.7	0.18	4.7	E	50	PCE3285CT-ND	2.68	4.41	10.24	37.80	PCE3285TR-ND	1,000	150.00	ECE-V2AA4R7UP
	4.7	0.18	4.7	F	80	PCE3205CT-ND	3.02	4.97	11.54	42.60	PCE3205TR-ND	500	87.50	ECE-V2AA4R7P
	10	0.18	10.0	E	50	PCE3286CT-ND	2.68	4.41	10.24	37.80	PCE3286TR-ND	1,000	150.00	ECE-V2AA100UP
	10	0.18	10.0	F	85	PCE3206CT-ND	3.02	4.97	11.54	42.60	PCE3206TR-ND	500	87.50	ECE-V2AA100P
	22	0.18	22.0	F	70	PCE3287CT-ND	3.42	5.64	13.08	48.30	PCE3287TR-ND	500	95.50	ECE-V2AA220UP
	22	0.18	22.0	G	85	PCE3207CT-ND	3.76	6.20	14.38	53.10	PCE3207TR-ND	500	102.00	ECE-V2AA220P
	33	0.18	33.0	G	90	PCE3208CT-ND	3.76	6.20	14.38	53.10	PCE3208TR-ND	500	102.00	ECE-V2AA330P

VS Bi-Polar Series

Aluminum Electrolytic Capacitors, Surface Mount Type

Size Code	Dimensions - mm D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8

Features: • General Purpose Bi-Polar • Life Time: 1000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

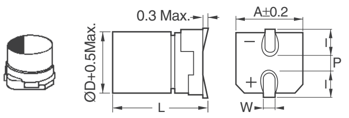

Following specified values:

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
-25°C/+20°C	4	3	2	2	2	2
-40°C/+20°C	8	6	4	4	3	3

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
6.3	22	0.52	6.0	C	29	PCE4286CT-ND	1.22	2.01	4.67	17.25	PCE4286TR-ND	1,000	86.00	EEE-0JA220NR
	47	0.52	6.0	D	46	PCE4287CT-ND	1.44	2.38	5.52	20.37	PCE4287TR-ND	1,000	102.00	EEE-0JA470NP
10	10	0.40	6.0	B	25	PCE4288CT-ND	1.03	1.69	3.93	14.52	PCE4288TR-ND	2,000	73.00/M	EEE-1AA100NR
	33	0.40	6.6	D	43	PCE4289CT-ND	1.44	2.38	5.52	20.37	PCE4289TR-ND	1,000	102.00	EEE-1AA330NP
16	4.7	0.32	6.0	B	20	PCE4290CT-ND	1.03	1.69	3.93	14.52	PCE4290TR-ND	2,000	73.00/M	EEE-1CA4R7NR
	10	0.32	6.0	C	25	PCE4291CT-ND	1.22	2.01	4.67	17.25	PCE4291TR-ND	1,000	86.00	EEE-1CA100NR
	22	0.32	7.0	D	39	PCE4306CT-ND	1.44	2.38	5.52	20.37	PCE4306TR-ND	1,000	102.00	EEE-1CA220NP
25	3.3	0.28	6.0	B	12	PCE4292CT-ND	1.03	1.69	3.93	14.52	PCE4292TR-ND	2,000	73.00/M	EEE-1EA3R3NR
	4.7	0.28	6.0	C	21	PCE4293CT-ND	1.22	2.01	4.67	17.25	PCE4293TR-ND	1,000	86.00	EEE-1EA4R7NR
	10	0.28	6.0	D	28	PCE4294CT-ND	1.44	2.38	5.52	20.37	PCE4294TR-ND	1,000	102.00	EEE-1EA100NP
35	2.2	0.24	6.0	B	12	PCE4295CT-ND	1.03	1.69	3.93	14.52	PCE4295TR-ND	2,000	73.00/M	EEE-1VA2R2NR
	4.7	0.24	6.0	C	22	PCE4296CT-ND	1.22	2.01	4.67	17.25	PCE4296TR-ND	1,000	86.00	EEE-1VA4R7NR
	10	0.24	7.0	D	30	PCE4297CT-ND	1.44	2.38	5.52	20.37	PCE4297TR-ND	1,000	102.00	EEE-1VA100NP
50	0.22	0.24	6.0	B	2	PCE4298CT-ND	1.03	1.69	3.93	14.52	PCE4298TR-ND	2,000	73.00/M	EEE-1HAR22NR
	0.33	0.24	6.0	B	3	PCE4299CT-ND	1.03	1.69	3.93	14.52	PCE4299TR-ND	2,000	73.00/M	EEE-1HAR33NR
	0.47	0.24	6.0	B	5	PCE4300CT-ND	1.03	1.69	3.93	14.52	PCE4300TR-ND	2,000	73.00/M	EEE-1HAR47NR
	1	0.24	6.0	B	10	PCE4301CT-ND	1.03	1.69	3.93	14.52	PCE4301TR-ND	2,000	73.00/M	EEE-1HA010NR
	2.2	0.24	6.0	C	16	PCE4302CT-ND	1.22	2.01	4.67	17.25	PCE4302TR-ND	1,000	86.00	EEE-1HA2R2NR
	3.3	0.24	6.0	C	21	PCE4305CT-ND	1.22	2.01	4.67	17.25	PCE4305TR-ND	1,000	86.00	EEE-NZ1H3R3R
	3.3	0.24	6.0	D	31	PCE4303CT-ND	1.44	2.38	5.52	20.37	PCE4303TR-ND	1,000	102.00	EEE-1HA3R3NP
	4.7	0.24	6.0	D	31	PCE4304CT-ND	1.44	2.38	5.52	20.37	PCE4304TR-ND	1,000	102.00	EEE-1HA4R7NP

VS Bi-Polar Series

Aluminum Electrolytic Capacitors, Surface Mount Type

Size Code	Dimensions - mm D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8

Features: • General Purpose Bi-Polar • Life Time: 1000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

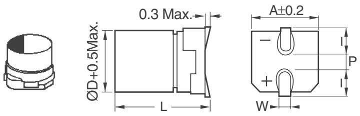

Following specified values:

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
-25°C/+20°C	4	3	2	2	2	2
-40°C/+20°C	8	6	4	4	3	3

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
6.3	22	0.52	6.0	C	29	PCE3123CT-ND	1.81	2.98	6.91	25.50	PCE3123TR-ND	1,000	95.00	ECE-V0JA220NR
	47	0.52	6.0	D	46	PCE3124CT-ND	2.06	3.40	7.88	29.10	PCE3124TR-ND	1,000	113.00	ECE-V0JA470NP
10	10	0.40	6.0	B	25	PCE3125CT-ND	1.55	2.56	5.93	21.90	PCE3125TR-ND	2,000	80.00/M	ECE-V1AA100NR
	33	0.40	6.6	D	43	PCE3126CT-ND	2.06	3.40	7.88	29.10	PCE3126TR-ND	1,000	113.00	ECE-V1AA330NP
16	4.7	0.32	6.0	B	20	PCE3127CT-ND	1.55	2.56	5.93	21.90	PCE3127TR-ND	2,000	80.00/M	ECE-V1CA4R7NR
	10	0.32	6.0	C	25	PCE3128CT-ND	1.81	2.98	6.91	25.50	PCE3128TR-ND	1,000	95.00	ECE-V1CA100NR
	22	0.32	7.0	D	39	PCE3129CT-ND	2.06	3.40	7.88	29.10	PCE3129TR-ND	1,000	113.00	ECE-V1CA220NP
25	3.3	0.28	6.0	B	12	PCE3130CT-ND	1.55	2.56	5.93	21.90	PCE3130TR-ND	2,000	80.00/M	ECE-V1EA3R3NR
	4.7	0.28	6.0	C	21	PCE3131CT-ND	1.81	2.98	6.91	25.50	PCE3131TR-ND	1,000	95.00	ECE-V1EA4R7NR
	10	0.28	6.0	D	28	PCE3132CT-ND	2.13	3.50	8.13	30.00	PCE3132TR-ND	1,000	113.00	ECE-V1EA100NP
35	2.2	0.24	6.0	B	12	PCE3133CT-ND	1.55	2.56	5.93	21.90	PCE3133TR-ND	2,000	80.00/M	ECE-V1VA2R2NR
	4.7	0.24	6.0	C	22	PCE3134CT-ND	1.81	2.98	6.91	25.50	PCE3134TR-ND	1,000	95.00	ECE-V1VA4R7NR
	10	0.24	7.0	D	30	PCE3135CT-ND	2.06	3.40	7.88	29.10	PCE3135TR-ND	1,000	113.00	ECE-V1VA100NP
50	0.22	0.24	6.0	B	2	PCE3136CT-ND	1.55	2.56	5.93	21.90	PCE3136TR-ND	2,000	80.00/M	ECE-V1HAR22NR
	0.33	0.24	6.0	B	3	PCE3137CT-ND	1.55	2.56	5.93	21.90	PCE3137TR-ND	2,000	80.00/M	ECE-V1HAR33NR
	0.47	0.24	6.0	B	5	PCE3138CT-ND	1.55	2.56	5.93	21.90	PCE3138TR-ND	2,000	80.00/M	ECE-V1HAR47NR
	1	0.24	6.0	B	10	PCE3139CT-ND	1.55	2.56	5.93	21.90	PCE3139TR-ND	2,000	80.00/M	ECE-V1HA010NR
	2.2	0.24	6.0	C	16	PCE3140CT-ND	1.81	2.98	6.91	25.50	PCE3140TR-ND	1,000	95.00	ECE-V1HA2R2NR
	3.3	0.24	6.0	C	21	PCE3141CT-ND	3.38	5.57	12.92	47.71	PCE3141TR-ND	1,000	239.00	ECE-V1HA3R3NP
	4.7	0.24	6.0	D	31	PCE3142CT-ND	2.06	3.40	7.88	29.10	PCE3142TR-ND	1,000	113.00	ECE-V1HA4R7NP

HA Series Aluminum Electrolytic Capacitors, Surface Mount Type – High Temperature (260°C)

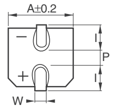

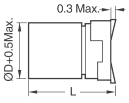

Features:
• General Purpose • Life Time: 1000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications:
• **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** ≤ I = 0.01CV or 3(μA) whichever is greater measured after a 2 min. application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Can Size – mm (Size Code)	Peak Temperature	Duration (Temp. ≥ 255°C)	Duration (Temp. ≥ 230°C)	Reflow Frequency
ø4 ~ ø6.3, ø8 x 10.2 (B, C, D, D8, F)	260°C	5 seconds	60 seconds	2‡
ø8 x 6.2, ø10 x 10.2 (E, G)	260°C	5 seconds	60 seconds	1

‡ Capacitor must return to room temperature before the second reflow

Following specified values:

Series	Impedance 120Hz	Working Voltage					
		6.3V	10V	16V	25V	35V	50V
HA	-25°C/+20°C	4	3	2	2	2	2
	-40°C/+20°C	8	6	4	4	3	3

Series	Case Code	Dimensions – mm					
		D	L	A	I	W	P
HA	B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
	C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
	D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
	E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (μA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Qty.	Pricing	
HA Long Life Series: -40°C ~ 105°C (1,000 Hour Life)														
6.3	22	0.30	3.0	B	29	PCE4647CT-ND	.88	1.45	3.36	12.42	PCE4647TR-ND	2,000	62.00/M	EEE-HA0J220AR
	33	0.35	3.0	B	29	PCE4720CT-ND	.97	1.60	3.72	13.74	PCE4720TR-ND	2,000	69.00/M	EEE-HAJ330WAR
	47	0.30	3.0	C	46	PCE4649CT-ND	1.05	1.73	4.01	14.82	PCE4649TR-ND	1,000	74.00	EEE-HA0J470AR
	100	0.40	6.3	C	47	PCE4718CT-ND	1.14	1.88	4.36	16.11	PCE4718TR-ND	1,000	81.00	EEE-HAJ101WAR
	100	0.30	6.3	D	71	PCE4645CT-ND	1.24	2.04	4.73	17.46	PCE4645TR-ND	1,000	87.00	EEE-HA0J101AP
	330	0.30	20.7	D8	105	PCE4722CT-ND	1.69	2.78	6.44	23.79	PCE4722TR-ND	900	107.10	EEE-HAJ331XAP
	330	0.35	20.7	E	180	PCE4721CT-ND	2.02	3.33	7.74	28.56	PCE4721TR-ND	1,000	143.00	EEE-HAJ331UAP
	330	0.35	20.7	F	230	PCE4648CT-ND	2.62	4.32	10.03	37.05	PCE4648TR-ND	500	92.50	EEE-HA0J331AP
	470	0.35	29.6	F	300	PCE4723CT-ND	2.62	4.32	10.03	37.05	PCE4723TR-ND	500	92.50	EEE-HAJ471UAP
	1,000	0.35	63.0	G	400	PCE4646CT-ND	3.07	5.05	11.73	43.32	PCE4646TR-ND	500	108.50	EEE-HA0J102AP
	1,500	0.50	94.5	G	480	PCE4719CT-ND	3.37	5.55	12.88	47.55	PCE4719TR-ND	500	119.00	EEE-HAJ152UAP
10	22	0.30	3.0	B	28	PCE4690CT-ND	.88	1.45	3.36	12.42	PCE4690TR-ND	2,000	62.00/M	EEE-HAA220WAR
	33	0.30	3.3	B	29	PCE4692CT-ND	.97	1.60	3.72	13.74	PCE4692TR-ND	2,000	69.00/M	EEE-HAA330WAR
	33	0.22	3.3	C	43	PCE4652CT-ND	1.05	1.73	4.01	14.82	PCE4652TR-ND	1,000	74.00	EEE-HA1A330AR
	47	0.30	4.7	C	43	PCE4693CT-ND	1.14	1.88	4.36	16.11	PCE4693TR-ND	1,000	81.00	EEE-HAA470WAR
	100	0.30	10.0	D	71	PCE4688CT-ND	1.24	2.04	4.73	17.46	PCE4688TR-ND	1,000	87.00	EEE-HAA101WAP
	100	0.26	10.0	E	110	PCE4650CT-ND	2.02	3.33	7.74	28.56	PCE4650TR-ND	1,000	143.00	EEE-HA1A101AP
	220	0.22	22.0	D8	105	PCE4691CT-ND	1.69	2.78	6.44	23.79	PCE4691TR-ND	900	107.10	EEE-HAA221XAP
	220	0.26	22.0	F	160	PCE4651CT-ND	2.62	4.32	10.03	37.05	PCE4651TR-ND	500	92.50	EEE-HA1A221AP
	470	0.26	47.0	F	200	PCE4694CT-ND	2.62	4.32	10.03	37.05	PCE4694TR-ND	500	92.50	EEE-HAA471UAP
	470	0.26	47.0	G	270	PCE4653CT-ND	3.07	5.05	11.73	43.32	PCE4653TR-ND	500	108.50	EEE-HA1A471AP
	1,000	0.35	100.0	G	400	PCE4689CT-ND	3.37	5.55	12.88	47.55	PCE4689TR-ND	500	119.00	EEE-HAA102UAP
16	10	0.16	3.0	B	28	PCE4654CT-ND	.88	1.45	3.36	12.42	PCE4654TR-ND	2,000	62.00/M	EEE-HA1C100AR
	22	0.26	3.5	B	28	PCE4696CT-ND	.97	1.60	3.72	13.74	PCE4696TR-ND	2,000	69.00/M	EEE-HAC220WAR
	22	0.16	3.5	C	39	PCE4655CT-ND	1.05	1.73	4.01	14.82	PCE4655TR-ND	1,000	74.00	EEE-HA1C220AR
	33	0.26	5.2	C	35	PCE4699CT-ND	1.14	1.88	4.36	16.11	PCE4699TR-ND	1,000	81.00	EEE-HAC330WAR
	47	0.26	7.5	C	39	PCE4701CT-ND	1.14	1.88	4.36	16.11	PCE4701TR-ND	1,000	81.00	EEE-HAC470WAR
	47	0.16	7.5	D	70	PCE4658CT-ND	1.24	2.04	4.73	17.46	PCE4658TR-ND	1,000	87.00	EEE-HA1C470AP
	100	0.26	16.0	D	70	PCE4695CT-ND	1.47	2.42	5.61	20.70	PCE4695TR-ND	1,000	104.00	EEE-HAC101WAP
	220	0.20	35.2	D8	105	PCE4698CT-ND	1.69	2.78	6.44	23.79	PCE4698TR-ND	900	107.10	EEE-HAC221XAP
	220	0.20	35.2	F	150	PCE4697CT-ND	2.62	4.32	10.03	37.05	PCE4697TR-ND	500	92.50	EEE-HAC221UAP
	220	0.20	35.2	G	210	PCE4656CT-ND	3.07	5.05	11.73	43.32	PCE4656TR-ND	500	108.50	EEE-HA1C221AP
	330	0.20	52.8	F	170	PCE4700CT-ND	2.62	4.32	10.03	37.05	PCE4700TR-ND	500	92.50	EEE-HAC331UAP
	330	0.20	52.8	G	230	PCE4657CT-ND	3.07	5.05	11.73	43.32	PCE4657TR-ND	500	108.50	EEE-HA1C331AP
	470	0.26	75.2	F	340	PCE4702CT-ND	2.85	4.69	10.88	40.17	PCE4702TR-ND	500	100.50	EEE-HAC471UAP
	470	0.20	75.2	G	340	PCE4659CT-ND	3.07	5.05	11.73	43.32	PCE4659TR-ND	500	108.50	EEE-HA1C471AP
	680	0.26	108.8	G	380	PCE4703CT-ND	3.37	5.55	12.88	47.55	PCE4703TR-ND	500	119.00	EEE-HAC681UAP
25	4.7	0.14	3.0	B	22	PCE4667CT-ND	.88	1.45	3.36	12.42	PCE4667TR-ND	2,000	62.00/M	EEE-HA1E4R7AR
	10	0.20	3.0	B	22	PCE4704CT-ND	.97	1.60	3.72	13.74	PCE4704TR-ND	2,000	69.00/M	EEE-HAE100WAR
	10	0.14	3.0	C	28	PCE4660CT-ND	1.05	1.73	4.01	14.82	PCE4660TR-ND	1,000	74.00	EEE-HA1E100AR
	22	0.20	5.5	C	35	PCE4707CT-ND	1.14	1.88	4.36	16.11	PCE4707TR-ND	1,000	81.00	EEE-HAE220WAR
	22	0.14	5.5	D	55	PCE4662CT-ND	1.24	2.04	4.73	17.46	PCE4662TR-ND	1,000	87.00	EEE-HA1E220AP
	33	0.20	8.2	C	45	PCE4709CT-ND	1.14	1.88	4.36	16.11	PCE4709TR-ND	1,000	81.00	EEE-HAE330WAR
	33	0.14	8.2	D	65	PCE4664CT-ND	1.24	2.04	4.73	17.46	PCE4664TR-ND	1,000	87.00	EEE-HA1E330AP
	47	0.20	11.7	D	70	PCE4711CT-ND	1.47	2.42	5.61	20.70	PCE4711TR-ND	1,000	104.00	EEE-HAE470WAP
	47	0.16	11.7	E	91	PCE4666CT-ND	2.02	3.33	7.74	28.56	PCE4666TR-ND	1,000	143.00	EEE-HA1E470AP
	100	0.16	25.0	D8	91	PCE4706CT-ND	1.69	2.78	6.44	23.79	PCE4706TR-ND	900	107.10	EEE-HAE101XAP
	100	0.16	25.0	E	91	PCE4705CT-ND	2.02	3.33	7.74	28.56	PCE4705TR-ND	1,000	143.00	EEE-HAE101UAP
	100	0.16	25.0	F	130	PCE4661CT-ND	2.62	4.32	10.03	37.05	PCE4661TR-ND	500	92.50	EEE-HA1E101AP
	220	0.20	55.0	F	160	PCE4708CT-ND	2.85	4.69	10.88	40.17	PCE4708TR-ND	500	100.50	EEE-HAE221UAP
	220	0.16	55.0	G	190	PCE4663CT-ND	3.07	5.05	11.73	43.32	PCE4663TR-ND	500	108.50	EEE-HA1E221AP
	330	0.20	82.5	F	180	PCE4710CT-ND	2.85	4.69	10.88	40.17	PCE4710TR-ND	500	100.50	EEE-HAE331UAP
	330	0.16	82.5	G	340	PCE4665CT-ND	3.07	5.05	11.73	43.32	PCE4665TR-ND	500	108.50	EEE-HA1E331AP
	470	0.25	117.5	G	360	PCE4712CT-ND	3.37	5.55	12.88	47.55	PCE4712TR-ND	500	119.00	EEE-HAE471UAP
35	4.7	0.12	3.0	B	22	PCE4687CT-ND	.88	1.45	3.36	12.42	PCE4687TR-ND	2,000	62.00/M	EEE-HA1V4R7AR
	10	0.16	3.5	B	22	PCE4724CT-ND	.97	1.60	3.72	13.74	PCE4724TR-ND	2,000	69.00/M	EEE-HAV100WAR
	10	0.12	3.5	C	30	PCE4681CT-ND	1.05	1.73	4.01	14.82	PCE4681TR-ND	1,000	74.00	EEE-HA1V100AR
	22	0.16	7.7	C	35	PCE4727CT-ND	1.14	1.88	4.36	16.11	PCE4727TR-ND	1,000	81.00	EEE-HAV220WAR
	22	0.12	7.7	D	60	PCE4683CT-ND	1.24	2.04	4.73	17.46	PCE4683TR-ND	1,000	87.00	EEE-HA1V220AP
	33	0.16	11.5	D	42	PCE4729CT-ND	1.47	2.42	5.61	20.70	PCE4729TR-ND	1,000	104.00	EEE-HAV330WAP
	33	0.14	11.5	E	84	PCE4685CT-ND	2.02	3.33	7.74	28.56	PCE4685TR-ND	1,000	143.00	EEE-HA1V330AP
	47	0.14	16.4	E	84	PCE4731CT-ND	2.02	3.33	7.74	28.56	PCE4731TR-ND	1,000	143.00	EEE-HAV470UAP
	47	0.14	16.4	F	98	PCE4686CT-ND	2.62	4.32	10.03	37.05	PCE4686TR-ND	500	92.50	EEE-HA1V470AP
	100	0.14	35.0	D8	84	PCE4726CT-ND	1.69	2.78	6.44	23.79	PCE4726TR-ND	900	107.10	EEE-HAV101XAP
	100	0.14	35.0	F	120	PCE4725CT-ND	2.62	4.32	10.03	37.05	PCE4725TR-ND	500	92.50	EEE-HAV101UAP
	100	0.14	35.0	G	160	PCE4682CT-ND	3.07	5.05	11.73	43.32	PCE4682TR-ND	500	108.50	EEE-HA1V101AP
	220	0.14	77.0	F	170	PCE4728CT-ND	2.85	4.69	10.88	40.17	PCE4728TR-ND	500	100.50	EEE-HAV221UAP
	220	0.14	77.0	G	210	PCE4684CT-ND	3.07	5.05	11.73	43.32	PCE4684TR-ND	500	108.50	EEE-HA1V221AP
	330	0.30	115.5	G	250	PCE4730CT-ND	3.37	5.55	12.88	47.55	PCE4730TR-ND	500	119.00	EEE-HAV331UAP
50	0.1	0.12	3.0	B	1	PCE4677CT-ND	.88	1.45	3.36	12.42	PCE4677TR-ND	2,000	62.00/M	EEE-HA1HR10AR
	0.22	0.12	3.0	B	2	PCE4678CT-ND	.88	1.45	3.36	12.42	PCE4678TR-ND	2,000	62.00/M	EEE-HA1HR22AR
	0.33	0.12	3.0	B	3	PCE4679CT-ND	.88	1.45	3.36	12.42	PCE4679TR-ND	2,000	62.00/M	EEE-HA1HR33AR
	0.47	0.12	3.0	B	5	PCE4680CT-ND	.88	1.45	3.36	12.42	PCE4680TR-ND	2,000	62.00/M	EEE-HA1HR47AR
	1	0.12	3.0	B	10	PCE4670CT-ND	.88	1.45	3.36	12.42	PCE4670TR-ND	2,000	62.00/M	EEE-HA1H1R0AR

(Continued)

Panasonic HA Series Aluminum Electrolytic Capacitors, Surface Mount Type – High Temperature (260°C) *(Cont.)*

Digi-Reel® RoHS

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
50	2.2	0.12	3.0	B	16	PCE4672CT-ND	.88	1.45	3.36	12.42	PCE4672TR-ND	2,000	62.00/M	EEE-HA1H2R2AR
	3.3	0.12	3.0	B	16	PCE4674CT-ND	.88	1.45	3.36	12.42	PCE4674TR-ND	2,000	62.00/M	EEE-HA1H3R3AR
	4.7	0.12	3.0	C	23	PCE4676CT-ND	1.05	1.73	4.01	14.82	PCE4676TR-ND	1,000	74.00	EEE-HA1H4R7AR
	10	0.12	5.0	D	35	PCE4668CT-ND	1.24	2.04	4.73	17.46	PCE4668TR-ND	1,000	87.00	EEE-HA1H100AP
	22	0.12	11.0	E	70	PCE4671CT-ND	2.02	3.33	7.74	28.56	PCE4671TR-ND	1,000	143.00	EEE-HA1H220AP
	33	0.14	16.5	D8	70	PCE4644CT-ND	1.24	2.04	4.73	17.46	PCE4644TR-ND	1,000	87.00	EEE-HAH330XAP
	33	0.12	16.5	E	70	PCE4715CT-ND	2.02	3.33	7.74	28.56	PCE4715TR-ND	1,000	143.00	EEE-HAH330UAP
	33	0.12	16.5	F	91	PCE4673CT-ND	2.62	4.32	10.03	37.05	PCE4673TR-ND	500	92.50	EEE-HA1H330AP
	47	0.14	23.5	D8	63	PCE4717CT-ND	1.69	2.78	6.44	23.79	PCE4717TR-ND	900	107.10	EEE-HAH470XAP
	47	0.12	23.5	F	95	PCE4716CT-ND	2.62	4.32	10.03	37.05	PCE4716TR-ND	500	92.50	EEE-HAH470UAP
	47	0.12	23.5	G	100	PCE4675CT-ND	3.07	5.05	11.73	43.32	PCE4675TR-ND	500	108.50	EEE-HA1H470AP
	100	0.18	50.0	F	110	PCE4713CT-ND	2.85	4.69	10.88	40.17	PCE4713TR-ND	500	100.50	EEE-HAH101UAP
	100	0.12	50.0	G	120	PCE4669CT-ND	3.07	5.05	11.73	43.32	PCE4669TR-ND	500	108.50	EEE-HA1H101AP
	220	0.18	110.0	G	150	PCE4714CT-ND	3.37	5.55	12.88	47.55	PCE4714TR-ND	500	119.00	EEE-HAH221UAP

Panasonic HA Series Aluminum Electrolytic Capacitors, Surface Mount Type

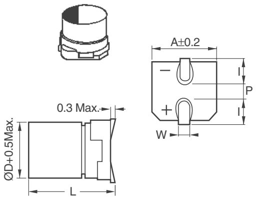

Features: • General Purpose • Life Time: 1000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 min. application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz) • **Soldering Reflow:** 4 ~ 6.3mm case size 250°C for five seconds, 8 ~ 10mm case size 235°C for five seconds

RoHS COMPLIANT

Following specified values:

Series	Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V	63V	100V
HA	-25°C/+20°C	4	3	2	2	2	2	3	3
	-40°C/+20°C	8	6	4	4	3	3	4	4

Series	Case Code	Dimensions – mm D	L	A	I	W	P
HA	B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
	C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
	D8	6.3	7.9	6.6	2.6	0.65±0.1	1.8
	E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
HA Long Life Series: -40°C ~ 105°C (1,000 Hour Life)														
6.3	22	0.30	3.0	B	29	PCE4160CT-ND	.79	1.30	3.01	11.10	PCE4160TR-ND	2,000	56.00/M	EEE-HA0J220R
	33	0.35	3.0	B	29	PCE4162CT-ND	.87	1.44	3.33	12.30	PCE4162TR-ND	2,000	62.00/M	EEE-HA0J330WR
	47	0.35	3.0	B	36	PCE4166CT-ND	.87	1.44	3.33	12.30	PCE4166TR-ND	2,000	62.00/M	EEE-HA0J470WR
	47	0.30	3.0	C	46	PCE4165CT-ND	.94	1.55	3.59	13.26	PCE4165TR-ND	1,000	66.00	EEE-HA0J470R
	100	0.35	6.3	C	47	PCE4156CT-ND	1.02	1.68	3.91	14.43	PCE4156TR-ND	1,000	72.00	EEE-HA0J101WR
	100	0.30	6.3	D	71	PCE4155CT-ND	1.11	1.82	4.23	15.60	PCE4155TR-ND	1,000	78.00	EEE-HA0J101P
	220	0.35	13.8	D	74	PCE4161CT-ND	1.31	2.15	5.00	18.45	PCE4161TR-ND	1,000	92.00	EEE-HA0J221WP
	330	0.30	20.8	D8	105	PCE4164CT-ND	1.51	2.49	5.77	21.30	PCE4164TR-ND	900	96.30	EEE-HA0J331XP
	330	0.35	20.8	F	230	PCE4163CT-ND	2.34	3.86	8.96	33.09	PCE4163TR-ND	500	82.50	EEE-HA0J331P
	470	0.35	29.6	F	300	PCE4167CT-ND	2.34	3.86	8.96	33.09	PCE4167TR-ND	500	82.50	EEE-HA0J471UP
	1,000	0.35	63.0	F	300	PCE4158CT-ND	2.34	3.86	8.96	33.09	PCE4158TR-ND	500	82.50	EEE-HA0J102UP
	1,000	0.35	63.0	G	400	PCE4157CT-ND	2.75	4.52	10.50	38.76	PCE4157TR-ND	500	97.00	EEE-HA0J102P
	1,500	0.35	94.5	G	480	PCE4159CT-ND	3.01	4.96	11.52	42.54	PCE4159TR-ND	500	106.50	EEE-HA0J152P
10	22	0.30	3.0	B	28	PCE4171CT-ND	.79	1.30	3.01	11.10	PCE4171TR-ND	2,000	56.00/M	EEE-HA1A220WR
	33	0.30	3.3	B	29	PCE4175CT-ND	.87	1.44	3.33	12.30	PCE4175TR-ND	2,000	62.00/M	EEE-HA1A330WR
	33	0.22	3.3	C	43	PCE4174CT-ND	.94	1.55	3.59	13.26	PCE4174TR-ND	1,000	66.00	EEE-HA1A330R
	47	0.30	4.7	C	43	PCE4176CT-ND	1.02	1.68	3.91	14.43	PCE4176TR-ND	1,000	72.00	EEE-HA1A470WR
	100	0.30	10.0	D	71	PCE4169CT-ND	1.11	1.82	4.23	15.60	PCE4169TR-ND	1,000	78.00	EEE-HA1A101WP
	100	0.26	10.0	E	110	PCE4168CT-ND	1.81	2.98	6.91	25.50	PCE4168TR-ND	1,000	128.00	EEE-HA1A101P
	220	0.22	22.0	D8	105	PCE4173CT-ND	1.51	2.49	5.77	21.30	PCE4173TR-ND	900	96.30	EEE-HA1A221XP
	220	0.26	22.0	F	160	PCE4172CT-ND	2.34	3.86	8.96	33.09	PCE4172TR-ND	500	82.50	EEE-HA1A221P
	470	0.26	47.0	F	200	PCE4178CT-ND	2.34	3.86	8.96	33.09	PCE4178TR-ND	500	82.50	EEE-HA1A471UP
	470	0.26	47.0	G	270	PCE4177CT-ND	2.75	4.52	10.50	38.76	PCE4177TR-ND	500	97.00	EEE-HA1A471P
	1,000	0.26	100.0	G	400	PCE4170CT-ND	3.01	4.96	11.52	42.54	PCE4170TR-ND	500	106.50	EEE-HA1A102P
16	10	0.16	3.0	B	28	PCE4179CT-ND	.79	1.30	3.01	11.10	PCE4179TR-ND	2,000	56.00/M	EEE-HA1C100R
	22	0.26	3.5	B	28	PCE4182CT-ND	.87	1.44	3.33	12.30	PCE4182TR-ND	2,000	62.00/M	EEE-HA1C220WR
	22	0.16	3.5	C	39	PCE4181CT-ND	.94	1.55	3.59	13.26	PCE4181TR-ND	1,000	66.00	EEE-HA1C220R
	33	0.26	5.2	C	35	PCE4186CT-ND	1.02	1.68	3.91	14.43	PCE4186TR-ND	1,000	72.00	EEE-HA1C330WR
	47	0.26	7.5	C	39	PCE4190CT-ND	1.02	1.68	3.91	14.43	PCE4190TR-ND	1,000	72.00	EEE-HA1C470WR
	47	0.16	7.5	D	70	PCE4189CT-ND	1.11	1.82	4.23	15.60	PCE4189TR-ND	1,000	78.00	EEE-HA1C470P
	100	0.26	16.0	D	70	PCE4180CT-ND	1.31	2.15	5.00	18.45	PCE4180TR-ND	1,000	92.00	EEE-HA1C101WP
	220	0.16	35.2	D8	105	PCE4185CT-ND	1.51	2.49	5.77	21.30	PCE4185TR-ND	900	96.30	EEE-HA1C221XP
	220	0.20	35.2	F	150	PCE4184CT-ND	2.34	3.86	8.96	33.09	PCE4184TR-ND	500	82.50	EEE-HA1C221UP
	220	0.20	35.2	G	210	PCE4183CT-ND	2.75	4.52	10.50	38.76	PCE4183TR-ND	500	97.00	EEE-HA1C221P
	330	0.20	52.8	F	170	PCE4188CT-ND	2.34	3.86	8.96	33.09	PCE4188TR-ND	500	82.50	EEE-HA1C331UP
	330	0.20	52.8	G	230	PCE4187CT-ND	2.75	4.52	10.50	38.76	PCE4187TR-ND	500	97.00	EEE-HA1C331P
	470	0.20	75.2	F	340	PCE4192CT-ND	2.54	4.19	9.73	35.91	PCE4192TR-ND	500	90.00	EEE-HA1C471UP
	470	0.20	75.2	G	340	PCE4191CT-ND	2.75	4.52	10.50	38.76	PCE4191TR-ND	500	97.00	EEE-HA1C471P
25	4.7	0.14	3.0	B	22	PCE4208CT-ND	.79	1.30	3.01	11.10	PCE4208TR-ND	2,000	56.00/M	EEE-HA1E4R7R
	10	0.20	3.0	B	22	PCE4194CT-ND	.87	1.44	3.33	12.30	PCE4194TR-ND	2,000	62.00/M	EEE-HA1E100WR
	10	0.14	3.0	C	28	PCE4193CT-ND	.94	1.55	3.59	13.26	PCE4193TR-ND	1,000	66.00	EEE-HA1E100R
	22	0.20	5.5	C	35	PCE4198CT-ND	1.02	1.68	3.91	14.43	PCE4198TR-ND	1,000	72.00	EEE-HA1E220WR
	22	0.14	5.5	D	55	PCE4197CT-ND	1.11	1.82	4.23	15.60	PCE4197TR-ND	1,000	78.00	EEE-HA1E220P
	33	0.20	8.2	C	45	PCE4202CT-ND	1.02	1.68	3.91	14.43	PCE4202TR-ND	1,000	72.00	EEE-HA1E330WR
	33	0.14	8.3	D	65	PCE4201CT-ND	1.11	1.82	4.23	15.60	PCE4201TR-ND	1,000	78.00	EEE-HA1E330P
	47	0.20	11.7	D	70	PCE4206CT-ND	1.31	2.15	5.00	18.45	PCE4206TR-ND	1,000	92.00	EEE-HA1E470WP
	47	0.16	11.8	E	91	PCE4205CT-ND	1.81	2.98	6.91	25.50	PCE4205TR-ND	1,000	128.00	EEE-HA1E470P
	100	0.16	25.0	E	91	PCE4196CT-ND	1.81	2.98	6.91	25.50	PCE4196TR-ND	1,000	128.00	EEE-HA1E101UP
	100	0.16	25.0	F	130	PCE4195CT-ND	2.34	3.86	8.96	33.09	PCE4195TR-ND	500	82.50	EEE-HA1E101P
	220	0.16	55.0	F	160	PCE4200CT-ND	2.55	4.20	9.74	35.97	PCE4200TR-ND	500	90.00	EEE-HA1E221UP
	220	0.16	55.0	G	190	PCE4199CT-ND	2.75	4.52	10.50	38.76	PCE4199TR-ND	500	97.00	EEE-HA1E221P
	330	0.16	82.5	F	180	PCE4204CT-ND	2.55	4.20	9.74	35.97	PCE4204TR-ND	500	90.00	EEE-HA1E331UP
	330	0.16	82.5	G	340	PCE4203CT-ND	2.75	4.52	10.50	38.76	PCE4203TR-ND	500	97.00	EEE-HA1E331P
	470	0.16	117.5	G	360	PCE4207CT-ND	3.01	4.96	11.52	42.54	PCE4207TR-ND	500	106.50	EEE-HA1E471P
35	4.7	0.12	3.0	B	22	PCE4248CT-ND	.79	1.30	3.01	11.10	PCE4248TR-ND	2,000	56.00/M	EEE-HA1V4R7R
	10	0.16	3.5	B	22	PCE4235CT-ND	.87	1.44	3.33	12.30	PCE4235TR-ND	2,000	62.00/M	EEE-HA1V100WR
	10	0.12	3.5	C	30	PCE4234CT-ND	.94	1.55	3.59	13.26	PCE4234TR-ND	1,000	66.00	EEE-HA1V100R
	22	0.16	7.7	C	35	PCE4240CT-ND	1.02	1.68	3.91	14.43	PCE4240TR-ND	1,000	72.00	EEE-HA1V220WR
	22	0.12	7.7	D	60	PCE4239CT-ND	1.11	1.82	4.23	15.60	PCE4239TR-ND	1,000	78.00	EEE-HA1V220P
	33	0.16	11.5	D	42	PCE4244CT-ND	1.31	2.15	5.00	18.45	PCE4244TR-ND	1,000	92.00	EEE-HA1V330WP
	33	0.14	11.6	E	84	PCE4243CT-ND	1.81	2.98	6.91	25.50	PCE4243TR-ND	1,000	128.00	EEE-HA1V330P
	47	0.14	16.5	E	84	PCE4247CT-ND	1.81	2.98	6.91	25.50	PCE4247TR-ND	1,000	128.00	EEE-HA1V470UP

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
35	47	0.14	16.5	F	98	PCE4246CT-ND	2.34	3.86	8.96	33.09	PCE4246TR-ND	500	82.50	EEE-HA1V470P
	100	0.12	35.0	D8	84	PCE4238CT-ND	1.51	2.49	5.77	21.30	PCE4238TR-ND	900	96.30	EEE-HA1V101XP
	100	0.14	35.0	F	120	PCE4237CT-ND	2.34	3.86	8.96	33.09	PCE4237TR-ND	500	82.50	EEE-HA1V101UP
	100	0.14	35.0	G	160	PCE4236CT-ND	2.75	4.52	10.50	38.76	PCE4236TR-ND	500	97.00	EEE-HA1V101P
	220	0.14	77.0	F	170	PCE4242CT-ND	2.54	4.19	9.73	35.91	PCE4242TR-ND	500	90.00	EEE-HA1V221UP
	220	0.14	77.0	G	210	PCE4241CT-ND	2.75	4.52	10.50	38.76	PCE4241TR-ND	500	97.00	EEE-HA1V221P
	330	0.14	115.5	G	250	PCE4245CT-ND	3.01	4.96	11.52	42.54	PCE4245TR-ND	500	106.50	EEE-HA1V331P
50	0.1	0.12	3.0	B	1	PCE4224CT-ND	.79	1.30	3.01	11.10	PCE4224TR-ND	2,000	56.00/M	EEE-HA1HR10R
	0.22	0.12	3.0	B	2	PCE4225CT-ND	.79	1.30	3.01	11.10	PCE4225TR-ND	2,000	56.00/M	EEE-HA1HR22R
	0.33	0.12	3.0	B	3	PCE4226CT-ND	.79	1.30	3.01	11.10	PCE4226TR-ND	2,000	56.00/M	EEE-HA1HR33R
	0.47	0.12	3.0	B	5	PCE4227CT-ND	.79	1.30	3.01	11.10	PCE4227TR-ND	2,000	56.00/M	EEE-HA1HR47R
	1.0	0.12	3.0	B	10	PCE4212CT-ND	.79	1.30	3.01	11.10	PCE4212TR-ND	2,000	56.00/M	EEE-HA1H1R0R
	2.2	0.12	3.0	B	16	PCE4215CT-ND	.79	1.30	3.01	11.10	PCE4215TR-ND	2,000	56.00/M	EEE-HA1H2R2R
	3.3	0.12	3.0	B	16	PCE4219CT-ND	.79	1.30	3.01	11.10	PCE4219TR-ND	2,000	56.00/M	EEE-HA1H3R3R
	4.7	0.12	3.0	C	23	PCE4223CT-ND	.94	1.55	3.59	13.26	PCE4223TR-ND	1,000	66.00	EEE-HA1H4R7R
	10	0.12	5.0	D	35	PCE4209CT-ND	1.11	1.82	4.23	15.60	PCE4209TR-ND	1,000	78.00	EEE-HA1H100P
	22	0.12	11.0	E	70	PCE4213CT-ND	1.81	2.98	6.91	25.50	PCE4213TR-ND	1,000	128.00	EEE-HA1H220P
	33	0.12	16.5	D8	70	PCE4218CT-ND	1.51	2.49	5.77	21.30	PCE4218TR-ND	900	96.30	EEE-HA1H330XP
	33	0.12	16.5	E	70	PCE4217CT-ND	1.81	2.98	6.91	25.50	PCE4217TR-ND	1,000	128.00	EEE-HA1H330UP
	33	0.12	16.5	F	91	PCE4216CT-ND	2.34	3.86	8.96	33.09	PCE4216TR-ND	500	82.50	EEE-HA1H330P
	47	0.12	23.5	D8	63	PCE4222CT-ND	1.51	2.49	5.77	21.30	PCE4222TR-ND	900	96.30	EEE-HA1H470XP
	47	0.12	23.5	F	95	PCE4221CT-ND	2.34	3.86	8.96	33.09	PCE4221TR-ND	500	82.50	EEE-HA1H470UP
	47	0.12	23.5	G	100	PCE4220CT-ND	2.75	4.52	10.50	38.76	PCE4220TR-ND	500	97.00	EEE-HA1H470P
	100	0.12	50.0	F	110	PCE4211CT-ND	2.55	4.20	9.74	35.97	PCE4211TR-ND	500	90.00	EEE-HA1H101UP
	100	0.12	50.0	G	120	PCE4210CT-ND	2.75	4.52	10.50	38.76	PCE4210TR-ND	500	97.00	EEE-HA1H101P
	220	0.12	110.0	G	150	PCE4214CT-ND	3.01	4.96	11.52	42.54	PCE4214TR-ND	500	106.50	EEE-HA1H221P
63	10	0.18	6.3	E	25	PCE4228CT-ND	2.01	3.31	7.69	28.38	PCE4228TR-ND	1,000	142.00	EEE-HA1J100P
	22	0.18	13.9	E	25	PCE4230CT-ND	2.21	3.64	8.45	31.20	PCE4230TR-ND	1,000	156.00	EEE-HA1J220UP
	22	0.18	13.9	F	30	PCE4229CT-ND	2.54	4.19	9.73	35.91	PCE4229TR-ND	500	90.00	EEE-HA1J220P
	33	0.18	20.8	G	45	PCE4231CT-ND	3.01	4.96	11.52	42.54	PCE4231TR-ND	500	106.50	EEE-HA1J330P
	47	0.18	29.7	F	45	PCE4233CT-ND	2.54	4.19	9.73	35.91	PCE4233TR-ND	500	90.00	EEE-HA1J470UP
	47	0.18	29.6	G	50	PCE4232CT-ND	3.01	4.96	11.52	42.54	PCE4232TR-ND	500	106.50	EEE-HA1J470P
100	3.3	0.18	3.3	E	30	PCE4253CT-ND	2.01	3.31	7.69	28.38	PCE4253TR-ND	1,000	142.00	EEE-HA2A3R3P
	4.7	0.18	4.7	E	30	PCE4255CT-ND	2.21	3.64	8.45	31.20	PCE4255TR-ND	1,000	156.00	EEE-HA2A4R7UP
	4.7	0.18	4.7	F	50	PCE4254CT-ND	2.54	4.19	9.73	35.91	PCE4254TR-ND	500	90.00	EEE-HA2A4R7P
	10	0.18	10.0	F	55	PCE4249CT-ND	2.54	4.19	9.73	35.91	PCE4249TR-ND	500	90.00	EEE-HA2A100P
	22	0.18	22.0	F	55	PCE4251CT-ND	2.80	4.61	10.69	39.48	PCE4251TR-ND	500	98.50	EEE-HA2A220UP
	22	0.18	22.0	G	60	PCE4250CT-ND	3.01	4.96	11.52	42.54	PCE4250TR-ND	500	106.50	EEE-HA2A220P
	33	0.18	33.0	G	65	PCE4252CT-ND	3.01	4.96	11.52	42.54	PCE4252TR-ND	500	106.50	EEE-HA2A330P

Panasonic HA Series Aluminum Electrolytic Capacitors, Surface Mount Type

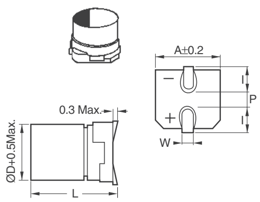

Features: • General Purpose • Life Time: 1000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 min. application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Series	Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V	63V	100V
HA	-25°C/+20°C	4	3	2	2	2	2	3	3
	-40°C/+20°C	8	6	4	4	3	3	4	4

Series	Size Code	Dimensions - mm D	L	A	ℓ	W	P
HA	B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
	C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
	D8	6.3	7.9	6.6	2.6	0.65±0.1	1.8
	E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
HA Long Life Series: -40°C ~ 105°C (1,000 Hour Life)														
6.3	22	0.30	3.0	B	29	PCE3000CT-ND	.87	1.43	3.32	12.27	PCE3000TR-ND	2,000	61.00/M	EEV-HA0J220R
	47	0.35	3.0	B	36	PCE3288CT-ND	.96	1.59	3.68	13.59	PCE3288TR-ND	2,000	68.00/M	EEV-HA0J470WR
	47	0.30	3.0	C	46	PCE3001CT-ND	1.04	1.71	3.97	14.64	PCE3001TR-ND	1,000	73.00	EEV-HA0J470R
	100	0.35	6.3	C	47	PCE3289CT-ND	1.13	1.86	4.32	15.96	PCE3289TR-ND	1,000	80.00	EEV-HA0J101WR
	100	0.30	6.3	D	71	PCE3002CT-ND	1.22	2.01	4.67	17.25	PCE3002TR-ND	1,000	86.00	EEV-HA0J101P
	220	0.35	13.8	D	74	PCE3290CT-ND	1.45	2.38	5.53	20.40	PCE3290TR-ND	1,000	102.00	EEV-HA0J221WP
	330	0.30	20.8	D8	105	PCE3358CT-ND	1.67	2.74	6.37	23.52	PCE3358TR-ND	900	106.20	EEV-HA0J331XP
	1000	0.35	63.0	F	300	PCE3209CT-ND	2.59	4.27	9.90	36.57	PCE3209TR-ND	500	91.50	EEV-HA0J102UP
	1500	0.35	94.5	G	480	PCE3210CT-ND	3.33	5.48	12.73	47.01	PCE3210TR-ND	500	117.50	EEV-HA0J152P
10	33	0.30	3.3	B	29	PCE3291CT-ND	.96	1.59	3.68	13.59	PCE3291TR-ND	2,000	68.00/M	EEV-HA1A330WR
	33	0.22	3.3	C	43	PCE3003CT-ND	1.04	1.71	3.97	14.64	PCE3003TR-ND	1,000	73.00	EEV-HA1A330R
	100	0.30	10.0	D	71	PCE3211CT-ND	1.22	2.01	4.67	17.25	PCE3211TR-ND	1,000	86.00	EEV-HA1A101WP
	220	0.22	22.0	D8	105	PCE3359CT-ND	1.67	2.74	6.37	23.52	PCE3359TR-ND	900	106.20	EEV-HA1A221XP
	470	0.26	47.0	F	200	PCE3212CT-ND	2.59	4.27	9.90	36.57	PCE3212TR-ND	500	91.50	EEV-HA1A471UP
	1000	0.26	100.0	G	400	PCE3292CT-ND	3.33	5.48	12.73	47.01	PCE3292TR-ND	500	117.50	EEV-HA1A102P
16	10	0.16	3.0	B	28	PCE3004CT-ND	.87	1.43	3.32	12.27	PCE3004TR-ND	2,000	61.00/M	EEV-HA1C100R
	22	0.26	3.5	B	28	PCE3293CT-ND	.96	1.59	3.68	13.59	PCE3293TR-ND	2,000	68.00/M	EEV-HA1C220WR
	22	0.16	3.5	C	39	PCE3005CT-ND	1.04	1.71	3.97	14.64	PCE3005TR-ND	1,000	73.00	EEV-HA1C220R
	47	0.26	7.5	C	39	PCE3294CT-ND	1.13	1.86	4.32	15.96	PCE3294TR-ND	1,000	80.00	EEV-HA1C470WR
	47	0.16	7.5	D	70	PCE3006CT-ND	1.22	2.01	4.67	17.25	PCE3006TR-ND	1,000	86.00	EEV-HA1C470P
	100	0.26	16.0	D	70	PCE3295CT-ND	1.45	2.38	5.53	20.40	PCE3295TR-ND	1,000	102.00	EEV-HA1C101WP
	220	0.16	35.2	D8	105	PCE3360CT-ND	1.67	2.74	6.37	23.52	PCE3360TR-ND	900	106.20	EEV-HA1C221XP
	220	0.20	35.2	F	150	PCE3213CT-ND	2.59	4.27	9.90	36.57	PCE3213TR-ND	500	91.50	EEV-HA1C221UP
	330	0.20	52.8	F	170	PCE3214CT-ND	2.59	4.27	9.90	36.57	PCE3214TR-ND	500	91.50	EEV-HA1C331UP
	470	0.20	75.2	F	340	PCE3215CT-ND	2.81	4.63	10.75	39.69	PCE3215TR-ND	500	99.00	EEV-HA1C471UP
	470	0.20	75.2	G	340	PCE3216CT-ND	3.03	5.00	11.60	42.84	PCE3216TR-ND	500	107.00	EEV-HA1C471P
25	4.7	0.14	3.0	B	22	PCE3007CT-ND	.87	1.43	3.32	12.27	PCE3007TR-ND	2,000	61.00/M	EEV-HA1E4R7R
	10	0.14	3.0	C	28	PCE3008CT-ND	1.04	1.71	3.97	14.64	PCE3008TR-ND	1,000	73.00	EEV-HA1E100R
	22	0.14	5.5	D	55	PCE3009CT-ND	1.22	2.01	4.67	17.25	PCE3009TR-ND	1,000	86.00	EEV-HA1E220P
	33	0.20	8.2	C	45	PCE3296CT-ND	1.13	1.86	4.32	15.96	PCE3296TR-ND	1,000	80.00	EEV-HA1E330WR
	33	0.14	8.3	D	65	PCE3010CT-ND	1.22	2.01	4.67	17.25	PCE3010TR-ND	1,000	86.00	EEV-HA1E330P
	47	0.20	11.7	D	70	PCE3297CT-ND	1.45	2.38	5.53	20.40	PCE3297TR-ND	1,000	102.00	EEV-HA1E470WP
	47	0.16	11.8	E	91	PCE3217CT-ND	2.00	3.29	7.64	28.20	PCE3217TR-ND	1,000	141.00	EEV-HA1E470P
	100	0.16	25.0	E	91	PCE3298CT-ND	2.00	3.29	7.64	28.20	PCE3298TR-ND	1,000	141.00	EEV-HA1E101UP
	100	0.16	25.0	F	130	PCE3218CT-ND	2.59	4.27	9.90	36.57	PCE3218TR-ND	500	91.50	EEV-HA1E101P
	220	0.16	55.0	F	160	PCE3219CT-ND	2.82	4.64	10.77	39.75	PCE3219TR-ND	500	99.50	EEV-HA1E221UP
	330	0.16	82.5	F	180	PCE3220CT-ND	2.82	4.64	10.77	39.75	PCE3220TR-ND	500	99.50	EEV-HA1E331UP
	470	0.16	117.5	G	360	PCE3221CT-ND	3.33	5.48	12.73	47.01	PCE3221TR-ND	500	117.50	EEV-HA1E471P
35	4.7	0.12	3.0	B	22	PCE3011CT-ND	.87	1.43	3.32	12.27	PCE3011TR-ND	2,000	61.00/M	EEV-HA1V4R7R
	10	0.16	3.5	B	22	PCE3299CT-ND	.96	1.59	3.68	13.59	PCE3299TR-ND	2,000	68.00/M	EEV-HA1V100WR

(Continued)

Panasonic HA Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Qty.	Pricing	
35	10	0.12	3.5	C	30	PCE3012CT-ND	1.04	1.71	3.97	14.64	PCE3012TR-ND	1,000	73.00	EEV-HA1V100R
	22	0.16	7.7	C	35	PCE3300CT-ND	1.13	1.86	4.32	15.96	PCE3300TR-ND	1,000	80.00	EEV-HA1V220WR
	22	0.12	7.7	D	60	PCE3013CT-ND	1.22	2.01	4.67	17.25	PCE3013TR-ND	1,000	86.00	EEV-HA1V220P
	33	0.16	11.5	D	42	PCE3301CT-ND	1.45	2.38	5.53	20.40	PCE3301TR-ND	1,000	102.00	EEV-HA1V330WP
	33	0.14	11.6	E	84	PCE3222CT-ND	2.00	3.29	7.64	28.20	PCE3222TR-ND	1,000	141.00	EEV-HA1V330P
	47	0.14	16.5	E	84	PCE3302CT-ND	2.00	3.29	7.64	28.20	PCE3302TR-ND	1,000	141.00	EEV-HA1V470UP
	47	0.14	16.5	F	98	PCE3223CT-ND	2.59	4.27	9.90	36.57	PCE3223TR-ND	500	91.50	EEV-HA1V470P
	100	0.12	35.0	D8	84	PCE3361CT-ND	1.67	2.74	6.37	23.52	PCE3361TR-ND	900	106.20	EEV-HA1V101XP
	100	0.14	35.0	F	120	PCE3224CT-ND	2.59	4.27	9.90	36.57	PCE3224TR-ND	500	91.50	EEV-HA1V101UP
	220	0.14	77.0	F	170	PCE3225CT-ND	2.81	4.63	10.75	39.69	PCE3225TR-ND	500	99.00	EEV-HA1V221UP
	220	0.14	77.0	G	210	PCE3226CT-ND	3.03	5.00	11.60	42.84	PCE3226TR-ND	500	107.00	EEV-HA1V221P
	330	0.14	115.5	G	250	PCE3227CT-ND	3.33	5.48	12.73	47.01	PCE3227TR-ND	500	117.50	EEV-HA1V331P
50	0.1	0.12	3.0	B	1	PCE3014CT-ND	.87	1.43	3.32	12.27	PCE3014TR-ND	2,000	61.00/M	EEV-HA1HR10R
	0.22	0.12	3.0	B	2	PCE3015CT-ND	.87	1.43	3.32	12.27	PCE3015TR-ND	2,000	61.00/M	EEV-HA1HR22R
	0.33	0.12	3.0	B	3	PCE3016CT-ND	.87	1.43	3.32	12.27	PCE3016TR-ND	2,000	61.00/M	EEV-HA1HR33R
	0.47	0.12	3.0	B	5	PCE3017CT-ND	.87	1.43	3.32	12.27	PCE3017TR-ND	2,000	61.00/M	EEV-HA1HR47R
	1.0	0.12	3.0	B	10	PCE3018CT-ND	.87	1.43	3.32	12.27	PCE3018TR-ND	2,000	61.00/M	EEV-HA1H010R
	2.2	0.12	3.0	B	16	PCE3019CT-ND	.87	1.43	3.32	12.27	PCE3019TR-ND	2,000	61.00/M	EEV-HA1H2R2R
	3.3	0.12	3.0	B	16	PCE3020CT-ND	.87	1.43	3.32	12.27	PCE3020TR-ND	2,000	61.00/M	EEV-HA1H3R3R
	4.7	0.12	3.0	C	23	PCE3021CT-ND	1.04	1.71	3.97	14.64	PCE3021TR-ND	1,000	73.00	EEV-HA1H4R7R
	10	0.12	5.0	D	35	PCE3022CT-ND	1.22	2.01	4.67	17.25	PCE3022TR-ND	1,000	86.00	EEV-HA1H100P
	22	0.12	11.0	E	70	PCE3228CT-ND	2.00	3.29	7.64	28.20	PCE3228TR-ND	1,000	141.00	EEV-HA1H220P
	33	0.12	16.5	D8	70	PCE3362CT-ND	1.67	2.74	6.37	23.52	PCE3362TR-ND	900	106.20	EEV-HA1H330XP
	33	0.12	16.5	E	70	PCE3303CT-ND	2.00	3.29	7.64	28.20	PCE3303TR-ND	1,000	141.00	EEV-HA1H330UP
	33	0.12	16.5	F	91	PCE3229CT-ND	2.59	4.27	9.90	36.57	PCE3229TR-ND	500	91.50	EEV-HA1H330P
	47	0.12	23.5	D8	63	PCE3363CT-ND	1.67	2.74	6.37	23.52	PCE3363TR-ND	900	106.20	EEV-HA1H470XP
	47	0.12	23.5	F	95	PCE3230CT-ND	2.59	4.27	9.90	36.57	PCE3230TR-ND	500	91.50	EEV-HA1H470UP
	100	0.12	50.0	F	110	PCE3231CT-ND	2.82	4.64	10.77	39.75	PCE3231TR-ND	500	99.50	EEV-HA1H101UP
	100	0.12	50.0	G	120	PCE3232CT-ND	3.03	5.00	11.60	42.84	PCE3232TR-ND	500	107.00	EEV-HA1H101P
	220	0.12	110.0	G	150	PCE3233CT-ND	3.33	5.48	12.73	47.01	PCE3233TR-ND	500	117.50	EEV-HA1H221P
63	10	0.18	6.3	E	25	PCE3234CT-ND	2.22	3.66	8.49	31.35	PCE3234TR-ND	1,000	157.00	EEV-HA1J100P
	22	0.18	13.9	E	25	PCE3304CT-ND	2.44	4.02	9.34	34.47	PCE3304TR-ND	1,000	172.00	EEV-HA1J220UP
	22	0.18	13.9	F	30	PCE3235CT-ND	2.81	4.63	10.75	39.69	PCE3235TR-ND	500	99.00	EEV-HA1J220P
	33	0.18	20.8	G	45	PCE3236CT-ND	3.33	5.48	12.73	47.01	PCE3236TR-ND	500	117.50	EEV-HA1J330P
	47	0.18	29.7	F	45	PCE3305CT-ND	2.81	4.63	10.75	39.69	PCE3305TR-ND	500	99.00	EEV-HA1J470UP
	47	0.18	29.6	G	50	PCE3237CT-ND	3.33	5.48	12.73	47.01	PCE3237TR-ND	500	117.50	EEV-HA1J470P
100	3.3	0.18	3.3	E	30	PCE3238CT-ND	2.22	3.66	8.49	31.35	PCE3238TR-ND	1,000	157.00	EEV-HA2A3R3P
	4.7	0.18	4.7	E	30	PCE3306CT-ND	2.44	4.02	9.34	34.47	PCE3306TR-ND	1,000	172.00	EEV-HA2A4R7UP
	4.7	0.18	4.7	F	50	PCE3239CT-ND	2.81	4.63	10.75	39.69	PCE3239TR-ND	500	99.00	EEV-HA2A4R7P
	10	0.18	10.0	F	55	PCE3240CT-ND	2.81	4.63	10.75	39.69	PCE3240TR-ND	500	99.00	EEV-HA2A100P
	22	0.18	22.0	E	55	PCE3307CT-ND	3.09	5.09	11.82	43.65	PCE3307TR-ND	500	109.00	EEV-HA2A220UP
	22	0.18	22.0	G	60	PCE3241CT-ND	3.33	5.48	12.73	47.01	PCE3241TR-ND	500	117.50	EEV-HA2A220P
	33	0.18	33.0	G	65	PCE3242CT-ND	3.33	5.48	12.73	47.01	PCE3242TR-ND	500	117.50	EEV-HA2A330P

Panasonic HB Series Aluminum Electrolytic Capacitors, Surface Mount Type – High Temperature (260°C)

Features: • General Purpose • Life Time: 2000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** ≤ I = 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

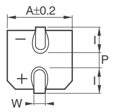

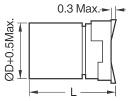

Can Size – mm (Size Code)	Peak Temperature	Duration (Temp. ≥255°C)	Duration (Temp. ≥230°C)	Reflow Frequency
ø4 ~ ø6.3, ø8 x 10.2 (B, C, D, D8, F)	260°C	5 seconds	60 seconds	2‡
ø8 x 6.2, ø10 x 10.2 (E, G)	260°C	5 seconds	60 seconds	1

‡ Capacitor must return to room temperature before the second reflow

Following specified values:

HB Series	Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
Standard	-25°C/+20°C	4	3	2	2	2	2
	-40°C/+20°C	8	6	4	4	3	3
Miniaturization Product	-20°C/+20°C	4	3	2	2	2	2
	-40°C/+20°C	10	8	6	6	4	4

Series	Case Code	Dimensions - mm D	L	A	I	W	P
HB	B	4.0	5.8	4.3	1.8	0.65±0.1	1.0
	C	5.0	5.8	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
	D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
	E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Qty.	Pricing	
HB Long Life High Reliability Series: -40°C ~ 105°C (2,000 Hour Life)														
6.3	22	0.30	3.0	B	26	PCE4733CT-ND	.92	1.52	3.53	13.02	PCE4733TR-ND	2,000	65.00/M	EEE-HB0J220AR
	33	0.30	3.0	B	29	PCE4735CT-ND	.92	1.52	3.53	13.02	PCE4735TR-ND	2,000	65.00/M	EEE-HB0J330AR
	47	0.50	3.0	B	26	PCE4805CT-ND	1.01	1.66	3.85	14.22	PCE4805TR-ND	2,000	71.00/M	EEE-HBJ470UAR
	47	0.30	3.0	C	46	PCE4737CT-ND	1.09	1.80	4.18	15.42	PCE4737TR-ND	1,000	77.00	EEE-HB0J470AR
	100	0.50	6.3	C	42	PCE4801CT-ND	1.19	1.97	4.57	16.86	PCE4801TR-ND	1,000	84.00	EEE-HBJ101UAR
	100	0.30	6.3	D	71	PCE4732CT-ND	1.29	2.12	4.92	18.18	PCE4732TR-ND	1,000	91.00	EEE-HB0J101AP
	220	0.50	13.8	D	80	PCE4803CT-ND	1.77	2.92	6.77	24.99	PCE4803TR-ND	1,000	125.00	EEE-HBJ221UAP
	220	0.35	13.8	F	150	PCE4734CT-ND	3.50	5.76	13.37	49.35	PCE4734TR-ND	500	123.50	EEE-HB0J221AP
	330	0.50	20.7	E	180	PCE4804CT-ND	2.98	4.91	11.40	42.09	PCE4804TR-ND	1,000	210.00	EEE-HBJ331UAP
	330	0.35	20.7	F	230	PCE4736CT-ND	3.50	5.76	13.37	49.35	PCE4736TR-ND	500	123.50	EEE-HB0J331AP
	470	0.50	29.6	F	230	PCE4806CT-ND	3.94	6.48	15.05	55.56	PCE4806TR-ND	500	139.00	EEE-HBJ471UAP
	1,500	0.50	94.5	G	290	PCE4802CT-ND	4.37	7.20	16.71	61.71	PCE4802TR-ND	500	154.50	EEE-HBJ152UAP
10	33	0.30	3.3	B	23	PCE4781CT-ND	1.01	1.66	3.85	14.22	PCE4781TR-ND	2,000	71.00/M	EEE-HBA330UAR
	33	0.26	3.3	C	43	PCE4740CT-ND	1.09	1.80	4.18	15.42	PCE4740TR-ND	1,000	77.00	EEE-HB1A330AR
	68	0.22	6.8	D	70	PCE4742CT-ND	1.29	2.12	4.92	18.18	PCE4742TR-ND	1,000	91.00	EEE-HB1A680AP
	100	0.30	10.0	D	71	PCE4778CT-ND	1.77	2.92	6.77	24.99	PCE4778TR-ND	1,000	125.00	EEE-HBA101UAP
	100	0.26	10.0	E	110	PCE4738CT-ND	2.71	4.47	10.37	38.28	PCE4738TR-ND	1,000	191.00	EEE-HB1A101AP
	150	0.50	15.0	D	64	PCE4779CT-ND	1.77	2.92	6.77	24.99	PCE4779TR-ND	1,000	125.00	EEE-HBA151UAP
	220	0.30	22.0	E	110	PCE4780CT-ND	2.98	4.91	11.40	42.09	PCE4780TR-ND	1,000	210.00	EEE-HBA221UAP
	220	0.26	22.0	F	160	PCE4739CT-ND	3.50	5.76	13.37	49.35	PCE4739TR-ND	500	123.50	EEE-HB1A221AP
	470	0.35	47.0	F	220	PCE4782CT-ND	3.94	6.48	15.05	55.56	PCE4782TR-ND	500	139.00	EEE-HBA471UAP
	470	0.26	47.0	G	270	PCE4741CT-ND	4.37	7.20	16.71	61.71	PCE4741TR-ND	500	154.50	EEE-HB1A471AP
16	10	0.16	3.0	B	28	PCE4743CT-ND	.92	1.52	3.53	13.02	PCE4743TR-ND	2,000	65.00/M	EEE-HB1C100AR
	22	0.26	3.5	B	29.5	PCE4784CT-ND	1.01	1.66	3.85	14.22	PCE4784TR-ND	2,000	71.00/M	EEE-HBC220UAR

(Continued)

Panasonic® HB Series Aluminum Electrolytic Capacitors, Surface Mount Type – High Temperature (260°C) *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Qty.	Pricing	
16	22	0.16	3.5	C	39	PCE4745CT-ND	1.09	1.80	4.18	15.42	PCE4745TR-ND	1,000	77.00	EEE-HB1C220AR
	33	0.16	5.2	D	65	PCE4747CT-ND	1.29	2.12	4.92	18.18	PCE4747TR-ND	1,000	91.00	EEE-HB1C330AP
	47	0.26	7.5	C	39	PCE4786CT-ND	1.19	1.97	4.57	16.86	PCE4786TR-ND	1,000	84.00	EEE-HBC470UAR
	47	0.16	7.5	D	70	PCE4749CT-ND	1.29	2.12	4.92	18.18	PCE4749TR-ND	1,000	91.00	EEE-HB1C470AP
	47	0.16	7.5	D8	84	PCE4787CT-ND	2.26	3.72	8.64	31.89	PCE4787TR-ND	900	143.10	EEE-HBC470XAP
	100	0.26	16.0	D	70	PCE4783CT-ND	1.77	2.92	6.77	24.99	PCE4783TR-ND	1,000	125.00	EEE-HBC101UAP
	100	0.20	16.0	F	120	PCE4744CT-ND	3.50	5.76	13.37	49.35	PCE4744TR-ND	500	123.50	EEE-HB1C101AP
	220	0.20	35.2	F	150	PCE4785CT-ND	3.94	6.48	15.05	55.56	PCE4785TR-ND	500	139.00	EEE-HBC221UAP
	220	0.20	35.2	G	210	PCE4746CT-ND	4.37	7.20	16.71	61.71	PCE4746TR-ND	500	154.50	EEE-HB1C221AP
	330	0.20	52.8	G	230	PCE4748CT-ND	4.37	7.20	16.71	61.71	PCE4748TR-ND	500	154.50	EEE-HB1C331AP
	470	0.40	75.2	F	240	PCE4788CT-ND	3.94	6.48	15.05	55.56	PCE4788TR-ND	500	139.00	EEE-HBC471UAP
	470	0.20	75.2	G	340	PCE4750CT-ND	4.37	7.20	16.71	61.71	PCE4750TR-ND	500	154.50	EEE-HB1C471AP
25	4.7	0.14	3.0	B	22	PCE4757CT-ND	.92	1.52	3.53	13.02	PCE4757TR-ND	2,000	65.00/M	EEE-HB1E4R7AR
	6.8	0.14	3.0	B	25	PCE4758CT-ND	.92	1.52	3.53	13.02	PCE4758TR-ND	2,000	65.00/M	EEE-HB1E6R8AR
	10	0.16	3.0	B	28	PCE4789CT-ND	1.01	1.66	3.85	14.22	PCE4789TR-ND	2,000	71.00/M	EEE-HBE100UAR
	10	0.14	3.0	C	28	PCE4751CT-ND	1.09	1.80	4.18	15.42	PCE4751TR-ND	1,000	77.00	EEE-HB1E100AR
	22	0.14	5.5	D	55	PCE4753CT-ND	1.29	2.12	4.92	18.18	PCE4753TR-ND	1,000	91.00	EEE-HB1E220AP
	33	0.20	8.2	C	50	PCE4792CT-ND	1.19	1.97	4.57	16.86	PCE4792TR-ND	1,000	84.00	EEE-HBE330UAR
	33	0.14	8.2	D	65	PCE4755CT-ND	1.29	2.12	4.92	18.18	PCE4755TR-ND	1,000	91.00	EEE-HB1E330AP
	47	0.20	11.7	D	65	PCE4794CT-ND	1.77	2.92	6.77	24.99	PCE4794TR-ND	1,000	125.00	EEE-HBE470UAP
	47	0.16	11.7	E	91	PCE4756CT-ND	2.71	4.47	10.37	38.28	PCE4756TR-ND	1,000	191.00	EEE-HB1E470AP
	100	0.16	25.0	E	100	PCE4790CT-ND	2.98	4.91	11.40	42.09	PCE4790TR-ND	1,000	210.00	EEE-HBE101UAP
	100	0.16	25.0	F	130	PCE4752CT-ND	3.50	5.76	13.37	49.35	PCE4752TR-ND	500	123.50	EEE-HB1E101AP
	220	0.30	55.0	F	130	PCE4791CT-ND	3.94	6.48	15.05	55.56	PCE4791TR-ND	500	139.00	EEE-HBE221UAP
	220	0.16	55.0	G	190	PCE4754CT-ND	4.37	7.20	16.71	61.71	PCE4754TR-ND	500	154.50	EEE-HB1E221AP
	330	0.30	82.5	F	130	PCE4793CT-ND	3.94	6.48	15.05	55.56	PCE4796TR-ND	500	169.50	EEE-HBE331UAP
	470	0.30	117.5	G	230	PCE4795CT-ND	4.81	7.92	18.38	67.86	PCE4795TR-ND	500	169.50	EEE-HBE471UAP
35	4.7	0.12	3.0	B	21	PCE4777CT-ND	.92	1.52	3.53	13.02	PCE4777TR-ND	2,000	65.00/M	EEE-HB1V4R7AR
	6.8	0.12	3.0	B	25	PCE4811CT-ND	1.01	1.66	3.85	14.22	PCE4811TR-ND	2,000	71.00/M	EEE-HBV6R8UAR
	10	0.12	3.5	C	28	PCE4772CT-ND	1.09	1.80	4.18	15.42	PCE4772TR-ND	1,000	77.00	EEE-HB1V100AR
	22	0.12	7.7	D	55	PCE4774CT-ND	1.29	2.12	4.92	18.18	PCE4774TR-ND	1,000	91.00	EEE-HB1V220AP
	33	0.14	11.5	E	84	PCE4775CT-ND	2.71	4.47	10.37	38.28	PCE4775TR-ND	1,000	191.00	EEE-HB1V330AP
	47	0.20	16.4	D8	98	PCE4810CT-ND	2.20	3.62	8.41	31.05	PCE4810TR-ND	900	139.50	EEE-HBV470YAP
	47	0.18	16.4	E	91	PCE4809CT-ND	2.98	4.90	11.38	42.00	PCE4809TR-ND	1,000	210.00	EEE-HBV470UAP
	47	0.14	16.4	F	98	PCE4776CT-ND	3.50	5.76	13.37	49.35	PCE4776TR-ND	500	123.50	EEE-HB1V470AP
	100	0.20	35.0	F	98	PCE4807CT-ND	3.94	6.48	15.05	55.56	PCE4807TR-ND	500	139.00	EEE-HBV101UAP
	100	0.14	35.0	G	160	PCE4773CT-ND	4.37	7.20	16.71	61.71	PCE4773TR-ND	500	154.50	EEE-HB1V101AP
	220	0.14	77.0	G	180	PCE4808CT-ND	4.81	7.92	18.38	67.86	PCE4808TR-ND	500	169.50	EEE-HBV221UAP
50	0.1	0.12	3.0	B	1	PCE4768CT-ND	.92	1.52	3.53	13.02	PCE4768TR-ND	2,000	65.00/M	EEE-HB1HR10AR
	0.22	0.12	3.0	B	2	PCE4769CT-ND	.92	1.52	3.53	13.02	PCE4769TR-ND	2,000	65.00/M	EEE-HB1HR22AR
	0.33	0.12	3.0	B	3	PCE4770CT-ND	.92	1.52	3.53	13.02	PCE4770TR-ND	2,000	65.00/M	EEE-HB1HR33AR
	0.47	0.12	3.0	B	5	PCE4771CT-ND	.92	1.52	3.53	13.02	PCE4771TR-ND	2,000	65.00/M	EEE-HB1HR47AR
	1	0.12	3.0	B	10	PCE4760CT-ND	.92	1.52	3.53	13.02	PCE4760TR-ND	2,000	65.00/M	EEE-HB1H1R0AR
	2.2	0.12	3.0	B	16	PCE4762CT-ND	.92	1.52	3.53	13.02	PCE4762TR-ND	2,000	65.00/M	EEE-HB1H2R2AR
	3.3	0.12	3.0	B	16	PCE4764CT-ND	.92	1.52	3.53	13.02	PCE4764TR-ND	2,000	65.00/M	EEE-HB1H3R3AR
	4.7	0.12	3.0	C	23	PCE4766CT-ND	1.09	1.80	4.18	15.42	PCE4766TR-ND	1,000	77.00	EEE-HB1H4R7AR
	6.8	0.12	3.4	C	23	PCE4767CT-ND	1.09	1.80	4.18	15.42	PCE4767TR-ND	1,000	77.00	EEE-HB1H6R8AR
	10	0.12	5.0	D	35	PCE4759CT-ND	1.29	2.12	4.92	18.18	PCE4759TR-ND	1,000	91.00	EEE-HB1H100AP
	22	0.14	11.0	D	35	PCE4797CT-ND	1.77	2.92	6.77	24.99	PCE4797TR-ND	1,000	125.00	EEE-HBH220UAP
	22	0.12	11.0	E	70	PCE4761CT-ND	2.71	4.47	10.37	38.28	PCE4761TR-ND	1,000	191.00	EEE-HB1H220AP
	33	0.12	16.5	F	91	PCE4763CT-ND	3.50	5.76	13.37	49.35	PCE4763TR-ND	1,000	247.00	EEE-HB1H330AP
	47	0.12	23.5	D8	63	PCE4800CT-ND	2.20	3.62	8.41	31.05	PCE4800TR-ND	900	139.50	EEE-HBH470YAP
	47	0.12	23.5	F	95	PCE4799CT-ND	3.94	6.48	15.05	55.56	PCE4799TR-ND	500	139.00	EEE-HBH470UAP
	47	0.12	23.5	G	100	PCE4765CT-ND	4.37	7.20	16.71	61.71	PCE4765TR-ND	500	154.50	EEE-HB1H470AP
	100	0.12	50.0	G	250	PCE4796CT-ND	4.81	7.92	18.38	67.86	PCE4796TR-ND	500	169.50	EEE-HBH101UAP
	220	0.18	110.0	G	150	PCE4798CT-ND	4.81	7.92	18.38	67.86	PCE4798TR-ND	500	169.50	EEE-HBH221UAP

Panasonic® HB Series Aluminum Electrolytic Capacitors, Surface Mount Type

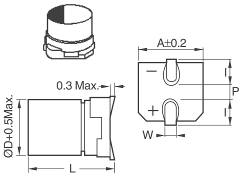

Features: • General Purpose • Life Time: 2000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement **Specifications:** • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz) • **Soldering Reflow:** 250°C for five seconds

Following specified values:

Series	Impedance 120Hz	Working Voltage						
		4.0V	6.3V	10V	16V	25V	35V	50V
HB	-25°C/+20°C	7	4	3	2	2	2	2
	-40°C/+20°C	15	8	6	4	4	3	3

Series	Case Code	Dimensions - mm					
		D	L	A	I	W	P
HB	B	4.0	5.8	4.3	1.8	0.65±0.1	1.0
	C	5.0	5.8	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.8	6.6	2.6	0.65±0.1	1.8

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Qty.	Pricing	
HB Long Life High Reliability Series: -40°C ~ 105°C (2,000 Hour Life)														
4	47	0.50	3.0	B	34	PCE4131CT-ND	.82	1.35	3.14	11.61	PCE4131TR-ND	2,000	58.00/M	EEE-HB0G470R
	100	0.50	4.0	C	61	PCE4129CT-ND	.98	1.61	3.75	13.83	PCE4129TR-ND	1,000	69.00	EEE-HB0G101R
	220	0.50	8.8	D	82	PCE4130CT-ND	1.15	1.90	4.41	16.29	PCE4130TR-ND	1,000	81.00	EEE-HB0G221P
6.3	22	0.30	3.0	B	26	PCE4133CT-ND	.82	1.35	3.14	11.61	PCE4133TR-ND	2,000	58.00/M	EEE-HB0J220R
	33	0.30	3.0	B	29	PCE4134CT-ND	.82	1.35	3.14	11.61	PCE4134TR-ND	2,000	58.00/M	EEE-HB0J330R
	47	0.30	3.0	C	46	PCE4135CT-ND	.98	1.61	3.75	13.83	PCE4135TR-ND	1,000	69.00	EEE-HB0J470R
	100	0.30	6.3	D	71	PCE4132CT-ND	1.15	1.90	4.41	16.29	PCE4132TR-ND	1,000	81.00	EEE-HB0J101P
10	33	0.22	3.3	C	43	PCE4136CT-ND	.98	1.61	3.75	13.83	PCE4136TR-ND	1,000	69.00	EEE-HB1A330R
16	10	0.16	3.0	B	28	PCE4137CT-ND	.82	1.35	3.14	11.61	PCE4137TR-ND	2,000	58.00/M	EEE-HB1C100R
	22	0.16	3.5	C	39	PCE4138CT-ND	.98	1.61	3.75	13.83	PCE4138TR-ND	1,000	69.00	EEE-HB1C220R
	47	0.16	7.5	D	70	PCE4139CT-ND	1.15	1.90	4.41	16.29	PCE4139TR-ND	1,000	81.00	EEE-HB1C470P
25	4.7	0.14	3.0	B	22	PCE4141CT-ND	.82	1.35	3.14	11.61	PCE4141TR-ND	2,000	58.00/M	EEE-HB1E4R7R
	6.8	0.14	3.0	B	25	PCE4142CT-ND	.82	1.35	3.14	11.61	PCE4142TR-ND	2,000	58.00/M	EEE-HB1E6R8R
	33	0.14	8.3	D	65	PCE4140CT-ND	1.15	1.90	4.41	16.29	PCE4140TR-ND	1,000	81.00	EEE-HB1E330P
35	10	0.12	3.5	C	28	PCE4153CT-ND	.98	1.61	3.75	13.83	PCE4153TR-ND	1,000	69.00	EEE-HB1V100R
	22	0.12	7.7	D	55	PCE4154CT-ND	1.15	1.90	4.41	16.29	PCE4154TR-ND	1,000	81.00	EEE-HB1V220P
50	0.1	0.12	3.0	B	1	PCE4149CT-ND	.82	1.35	3.14	11.61	PCE4149TR-ND	2,000	58.00/M	EEE-HB1HR10R
	0.22	0.12	3.0	B	2	PCE4150CT-ND	.82	1.35	3.14	11.61	PCE4150TR-ND	2,000	58.00/M	EEE-HB1HR22R
	0.33	0.12	3.0	B	3	PCE4151CT-ND	.82	1.35	3.14	11.61	PCE4151TR-ND	2,000	58.00/M	EEE-HB1HR33R
	0.47	0.12	3.0	B	5	PCE4152CT-ND	.82	1.35	3.14	11.61	PCE4152TR-ND	2,000	58.00/M	EEE-HB1HR47R
	1	0.12	3.0	B	10	PCE4144CT-ND	.82	1.35	3.14	11.61	PCE4144TR-ND	2,000	58.00/M	EEE-HB1H1R0R
	2.2	0.12	3.0	B	16	PCE4145CT-ND	.82	1.35	3.14	11.61	PCE4145TR-ND	2,000	58.00/M	EEE-HB1H2R2R
	3.3	0.12	3.0	B	16	PCE4146CT-ND	.82	1.35	3.14	11.61	PCE4146TR-ND	2,000	58.00/M	EEE-HB1H3R3R
	4.7	0.12	3.0	C	23	PCE4147CT-ND	.98	1.61	3.75	13.83	PCE4147TR-ND	1,000	69.00	EEE-HB1H4R7R
	6.8	0.12	3.4	C	23	PCE4148CT-ND	1.15	1.90	4.41	16.29	PCE4148TR-ND	1,000	81.00	EEE-HB1H6R8R
	10	0.12	5.0	D	35	PCE4143CT-ND	1.15	1.90	4.41	16.29	PCE4143TR-ND	1,000	81.00	EEE-HB1H100P

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® HB Series Aluminum Electrolytic Capacitors, Surface Mount Type

Digi Reel®

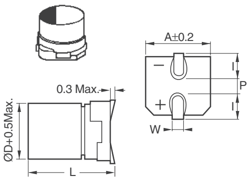

Features: • General Purpose • Life Time: 2000H @105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • Operating Temperature Range: -40°C ~ 105°C **• Capacitance Tolerance:** ±20% (120Hz, 20°C) **• Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C **• Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Working Voltage						
	4.0V	6.3V	10V	16V	25V	35V	50V
-25°C/20°C	7	4	3	2	2	2	2
-40°C/20°C	15	8	6	4	4	3	3

Size Code	Dimensions - mm					
	D	L	A	l	W	P
B	4.0	5.8	4.3	1.8	0.65±0.1	1.0
C	5.0	5.8	5.3	2.2	0.65±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65±0.1	1.8

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Qty.	Pricing	
HB Long Life High Reliability Series: –40°C ~ 105°C (2000 Hour Life)														
4	47	0.50	3.0	B	34	PCE3023CT-ND	.91	1.49	3.47	12.81	PCE3023TR-ND	2,000	64.00/M	EEV-HB0G470R
	100	0.50	4.0	C	61	PCE3024CT-ND	1.08	1.78	4.14	15.27	PCE3024TR-ND	1,000	76.00	EEV-HB0G101R
	220	0.50	8.8	D	82	PCE3025CT-ND	1.28	2.10	4.88	18.00	PCE3025TR-ND	1,000	90.00	EEV-HB0G221P
6.3	22	0.30	3.0	B	26	PCE3026CT-ND	.91	1.49	3.47	12.81	PCE3026TR-ND	2,000	64.00/M	EEV-HB0J220R
	33	0.30	3.0	B	29	PCE3027CT-ND	.91	1.49	3.47	12.81	PCE3027TR-ND	2,000	64.00/M	EEV-HB0J330R
	47	0.30	3.0	C	46	PCE3028CT-ND	1.08	1.78	4.14	15.27	PCE3028TR-ND	1,000	76.00	EEV-HB0J470R
	100	0.30	6.3	D	71	PCE3029CT-ND	1.28	2.10	4.88	18.00	PCE3029TR-ND	1,000	90.00	EEV-HB0J101P
10	33	0.22	3.3	C	43	PCE3030CT-ND	1.08	1.78	4.14	15.27	PCE3030TR-ND	1,000	76.00	EEV-HB1A330R
16	10	0.16	3.0	B	28	PCE3031CT-ND	.91	1.49	3.47	12.81	PCE3031TR-ND	2,000	64.00/M	EEV-HB1C100R
	22	0.16	3.5	C	39	PCE3032CT-ND	1.08	1.78	4.14	15.27	PCE3032TR-ND	1,000	76.00	EEV-HB1C220R
	47	0.16	7.5	D	70	PCE3033CT-ND	1.28	2.10	4.88	18.00	PCE3033TR-ND	1,000	90.00	EEV-HB1C470P
25	4.7	0.14	3.0	B	22	PCE3034CT-ND	.91	1.49	3.47	12.81	PCE3034TR-ND	2,000	64.00/M	EEV-HB1E4R7R
	6.8	0.14	3.0	B	25	PCE3035CT-ND	.91	1.49	3.47	12.81	PCE3035TR-ND	2,000	64.00/M	EEV-HB1E6R8R
	10	0.14	3.0	C	28	PCE3036CT-ND	3.66	6.02	13.98	51.60	PCE3036TR-ND	1,000	258.00	EEV-HB1E100R
	22	0.14	5.5	D	55	PCE3037CT-ND	4.25	7.00	16.25	60.00	PCE3037TR-ND	1,000	300.00	EEV-HB1E220P
	33	0.14	8.3	D	65	PCE3038CT-ND	1.28	2.10	4.88	18.00	PCE3038TR-ND	1,000	90.00	EEV-HB1E330P
35	10	0.12	3.5	C	28	PCE3039CT-ND	1.08	1.78	4.14	15.27	PCE3039TR-ND	1,000	76.00	EEV-HB1V100R
	22	0.12	7.7	D	55	PCE3040CT-ND	1.28	2.10	4.88	18.00	PCE3040TR-ND	1,000	90.00	EEV-HB1V220P
50	0.1	0.12	3.0	B	1	PCE3041CT-ND	.91	1.49	3.47	12.81	PCE3041TR-ND	2,000	64.00/M	EEV-HB1HR10R
	0.22	0.12	3.0	B	2	PCE3042CT-ND	.91	1.49	3.47	12.81	PCE3042TR-ND	2,000	64.00/M	EEV-HB1HR22R
	0.33	0.12	3.0	B	3	PCE3043CT-ND	.91	1.49	3.47	12.81	PCE3043TR-ND	2,000	64.00/M	EEV-HB1HR33R
	0.47	0.12	3.0	B	5	PCE3044CT-ND	.91	1.49	3.47	12.81	PCE3044TR-ND	2,000	64.00/M	EEV-HB1HR47R
	1	0.12	3.0	B	10	PCE3045CT-ND	.91	1.49	3.47	12.81	PCE3045TR-ND	2,000	64.00/M	EEV-HB1H1R0R
	2.2	0.12	3.0	B	16	PCE3046CT-ND	.91	1.49	3.47	12.81	PCE3046TR-ND	2,000	64.00/M	EEV-HB1H2R2R
	3.3	0.12	3.0	B	16	PCE3047CT-ND	.91	1.49	3.47	12.81	PCE3047TR-ND	2,000	64.00/M	EEV-HB1H3R3R
	4.7	0.12	3.0	C	23	PCE3048CT-ND	1.08	1.78	4.14	15.27	PCE3048TR-ND	1,000	76.00	EEV-HB1H4R7R
	6.8	0.12	3.4	C	23	PCE3049CT-ND	1.28	2.10	4.88	18.00	PCE3049TR-ND	1,000	90.00	EEV-HB1H6R8R
	10.0	0.12	5.0	D	35	PCE3050CT-ND	1.28	2.10	4.88	18.00	PCE3050TR-ND	1,000	90.00	EEV-HB1H100P

Panasonic®

HC Series

Aluminum Electrolytic Capacitors, Surface Mount Type

Digi Reel®

RoHS COMPLIANT

Specifications: • Category Temperature Range: -40°C ~ 105°C **• Capacitance Tolerance:** ±20% (120Hz, 20°C) **• Rated Voltage:** 6.3, 10, 16, 25, 35 **• Surge Voltage:** 8, 13, 20, 32, 44 **• Life Time:** 3000 ~ 5000H ø8, ø10

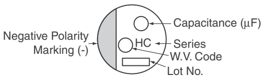

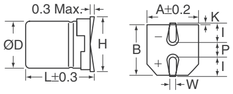

Following specified values:

Impedance 120Hz	Working Voltage				
	6.3V	10V	16V	25V	35V
-25°C/20°C	3	3	2	2	2
-40°C/20°C	8	5	4	3	3

Rated Voltage Mark	
J	6.3V
A	10V
C	16V
E	25V
V	35V

Size Code	Dimensions - mm							
	D	L	A,B	H	l	W	P	K
B	4.0	5.8	4.3	5.5 Max.	1.8	0.65±0.1	1.0	0.35
C	5.0	5.8	5.3	6.5 Max.	2.2	0.65±0.1	1.5	0.35
D	6.3	5.8	6.6	7.8 Max.	2.6	0.65±0.1	1.8	0.35
D8	6.3	7.7	6.6	7.8 Max.	2.6	0.65±0.1	1.8	0.35
F	8.0	10.2	8.3	10.0 Max.	3.4	0.90±0.2	3.1	0.70±0.2
G	10.0	10.2	10.3	12.0 Max.	3.5	0.90±0.2	4.6	0.70±0.2

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Qty.	Pricing	
HC Series : –40°C ~ 105°C (3000 — 5000 Hour Life)														
6.3	22	0.30	3.0	B	26	PCE3739CT-ND	.97	1.60	3.71	13.68	PCE3739TR-ND	2,000	68.00/M	EEE-HC0J220R
	47	0.30	3.0	C	46	PCE3740CT-ND	1.16	1.90	4.42	16.32	PCE3740TR-ND	1,000	82.00	EEE-HC0J470R
	100	0.30	6.3	D	71	PCE3741CT-ND	1.36	2.25	5.22	19.26	PCE3741TR-ND	1,000	96.00	EEE-HC0J101P
	220	0.30	13.8	D8	101	PCE3742CT-ND	1.86	3.06	7.10	26.22	PCE3742TR-ND	900	117.90	EEE-HC0J221XP
	330	0.30	20.7	F	230	PCE3743CT-ND	2.89	4.76	11.04	40.77	PCE3743TR-ND	500	102.00	EEE-HC0J331P
	1000	0.50	63.0	G	313	PCE3744CT-ND	3.38	5.57	12.94	47.76	PCE3744TR-ND	500	119.50	EEE-HC0J102P
10	33	0.26	3.3	C	43	PCE3745CT-ND	.97	1.60	3.71	13.68	PCE3745TR-ND	1,000	68.00	EEE-HC1A330R
	220	0.26	22.0	F	160	PCE3746CT-ND	2.89	4.76	11.04	40.77	PCE3746TR-ND	500	102.00	EEE-HC1A221P
16	10	0.20	3.0	B	28	PCE3747CT-ND	.97	1.60	3.71	13.68	PCE3747TR-ND	2,000	68.00/M	EEE-HC1C100R
	22	0.20	3.5	C	39	PCE3748CT-ND	1.16	1.90	4.42	16.32	PCE3748TR-ND	1,000	82.00	EEE-HC1C220R
	47	0.20	7.5	D	70	PCE3749CT-ND	1.36	2.25	5.22	19.26	PCE3749TR-ND	1,000	96.00	EEE-HC1C470P
	100	0.20	16.0	D8	81	PCE3750CT-ND	1.86	3.06	7.10	26.22	PCE3750TR-ND	900	117.90	EEE-HC1C101XP
	470	0.20	75.2	G	340	PCE3751CT-ND	3.38	5.57	12.94	47.76	PCE3751TR-ND	500	119.50	EEE-HC1C471P
25	33	0.16	8.2	D	65	PCE3752CT-ND	1.16	1.90	4.42	16.32	PCE3752TR-ND	1,000	82.00	EEE-HC1E330P
	47	0.16	11.7	D8	65	PCE3753CT-ND	1.86	3.06	7.10	26.22	PCE3753TR-ND	900	117.90	EEE-HC1E470XP
	100	0.16	25.0	F	130	PCE3754CT-ND	2.89	4.76	11.04	40.77	PCE3754TR-ND	500	102.00	EEE-HC1E101P
	330	0.16	82.5	G	238	PCE3755CT-ND	3.38	5.57	12.94	47.76	PCE3755TR-ND	500	119.50	EEE-HC1E331P
35	4.7	0.14	3.0	B	15	PCE3756CT-ND	.97	1.60	3.71	13.68	PCE3756TR-ND	2,000	68.00/M	EEE-HC1V4R7R
	10	0.14	3.5	C	28	PCE3757CT-ND	1.16	1.90	4.42	16.32	PCE3757TR-ND	1,000	82.00	EEE-HC1V100R
	22	0.14	7.7	D	55	PCE3758CT-ND	1.36	2.25	5.22	19.26	PCE3758TR-ND	1,000	96.00	EEE-HC1V220P
	33	0.14	11.5	D8	57	PCE3759CT-ND	1.86	3.06	7.10	26.22	PCE3759TR-ND	900	117.90	EEE-HC1V330XP
	220	0.14	77.0	G	220	PCE3760CT-ND	3.38	5.57	12.94	47.76	PCE3760TR-ND	500	119.50	EEE-HC1V221P

Digi Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Panasonic® HD Series Aluminum Electrolytic Capacitors, Surface Mount Type

Features: • Long Life • Life Time: 5000H @105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement • Anti-solvent: Freon-TE, TES, TP-35

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C

Low Temperature Characteristics: Impedance ratio (120Hz)

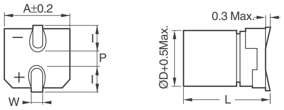

Following specified values:

Impedance 120Hz	10V	16V	25V	35V	50V	63V	100V
-25°C/20°C	6	2	2	2	2	2	2
-40°C/20°C	12	5	3	3	3	3	3

Size Code	D	L	A	I	W	P
B	4.0	5.8	4.3	1.8	0.65±0.1	1.0
C	5.0	5.8	5.3	2.2	0.65±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
HD Series: –40°C ~ 105°C (5000 Hour Life)															
10	100	0.30	2.0	10.0	E	62	PCE3364CT-ND	2.61	4.29	9.97	36.81	PCE3364TR-ND	1,000	184.00	EEV-HD1A101P
	220	0.30	1.5	22.0	F	93	PCE3365CT-ND	3.38	5.57	12.92	47.70	PCE3365TR-ND	500	119.50	EEV-HD1A221P
	330	0.30	0.8	33.0	G	118	PCE3366CT-ND	3.96	6.52	15.14	55.89	PCE3366TR-ND	500	139.50	EEV-HD1A331P
16	10	0.20	12.0	3.0	B	20	PCE3338CT-ND	1.14	1.87	4.35	16.05	PCE3338TR-ND	2,000	80.00/M	EEV-HD1C100R
	22	0.20	7.2	3.5	C	33	PCE3339CT-ND	1.35	2.23	5.17	19.08	PCE3339TR-ND	1,000	95.00	EEV-HD1C220R
	47	0.20	4.0	7.5	D	55	PCE3340CT-ND	1.59	2.63	6.09	22.50	PCE3340TR-ND	1,000	113.00	EEV-HD1C470P
	100	0.23	1.5	16.0	F	89	PCE3367CT-ND	3.38	5.57	12.92	47.70	PCE3367TR-ND	500	119.50	EEV-HD1C101P
	220	0.23	0.8	35.2	G	113	PCE3368CT-ND	6.21	10.23	23.75	87.70	PCE3368TR-ND	500	219.00	EEV-HD1C221P
25	33	0.16	4.0	8.3	D	52	PCE3341CT-ND	1.59	2.63	6.09	22.50	PCE3341TR-ND	1,000	113.00	EEV-HD1E330P
	47	0.18	2.0	11.8	E	56	PCE3369CT-ND	2.61	4.29	9.97	36.81	PCE3369TR-ND	1,000	184.00	EEV-HD1E470P
	100	0.18	1.5	25.0	F	84	PCE3370CT-ND	3.38	5.57	12.92	47.70	PCE3370TR-ND	500	119.50	EEV-HD1E101P
35	4.7	0.13	12.0	3.0	B	17	PCE3342CT-ND	1.14	1.87	4.35	16.05	PCE3342TR-ND	2,000	80.00/M	EEV-HD1V4R7R
	10	0.13	7.2	3.5	C	28	PCE3343CT-ND	1.35	2.23	5.17	19.08	PCE3343TR-ND	1,000	95.00	EEV-HD1V100R
	22	0.13	4.0	7.7	D	47	PCE3344CT-ND	1.59	2.63	6.09	22.50	PCE3344TR-ND	1,000	113.00	EEV-HD1V220P
	33	0.16	2.0	11.6	E	53	PCE3371CT-ND	2.61	4.29	9.97	36.81	PCE3371TR-ND	1,000	184.00	EEV-HD1V330P
	47	0.16	1.5	16.5	F	79	PCE3372CT-ND	3.38	5.57	12.92	47.70	PCE3372TR-ND	500	119.50	EEV-HD1V470P
	100	0.16	0.8	35.0	G	101	PCE3373CT-ND	3.96	6.52	15.14	55.89	PCE3373TR-ND	500	139.50	EEV-HD1V101P
50	0.47	0.12	12.0	3.0	B	5	PCE3345CT-ND	1.14	1.87	4.35	16.05	PCE3345TR-ND	2,000	80.00/M	EEV-HD1HR47R
	1.0	0.12	12.0	3.0	B	7	PCE3346CT-ND	1.14	1.87	4.35	16.05	PCE3346TR-ND	2,000	80.00/M	EEV-HD1H1R0R
	2.2	0.12	12.0	3.0	B	12	PCE3347CT-ND	1.14	1.87	4.35	16.05	PCE3347TR-ND	2,000	80.00/M	EEV-HD1H2R2R
	3.3	0.12	12.0	3.0	B	16	PCE3348CT-ND	1.14	1.87	4.35	16.05	PCE3348TR-ND	2,000	80.00/M	EEV-HD1H3R3R
	4.7	0.12	7.2	3.0	C	21	PCE3349CT-ND	1.35	2.23	5.17	19.08	PCE3349TR-ND	1,000	95.00	EEV-HD1H4R7R
	10	0.12	4.0	5.0	D	33	PCE3350CT-ND	1.59	2.63	6.09	22.50	PCE3350TR-ND	1,000	113.00	EEV-HD1H100P
	22	0.14	2.0	11.0	E	50	PCE3374CT-ND	2.61	4.29	9.97	36.81	PCE3374TR-ND	1,000	184.00	EEV-HD1H220P
	33	0.14	1.5	16.5	F	74	PCE3375CT-ND	3.38	5.57	12.92	47.70	PCE3375TR-ND	500	119.50	EEV-HD1H330P
	47	0.14	0.8	23.5	G	94	PCE3376CT-ND	3.96	6.52	15.14	55.89	PCE3376TR-ND	500	139.50	EEV-HD1H470P
63	10	0.18	2.0	6.3	E	45	PCE3571CT-ND	2.45	4.60	9.97	30.68	PCE3571TR-ND	1,000	184.00	EEV-HD1J100P
	22	0.18	1.5	13.8	F	65	PCE3572CT-ND	3.18	5.96	12.92	47.70	PCE3572TR-ND	500	119.50	EEV-HD1J220P
	33	0.18	0.8	20.7	G	80	PCE3573CT-ND	3.73	6.99	15.14	55.89	PCE3573TR-ND	500	139.50	EEV-HD1J330P
100	3.3	0.18	2.0	3.3	E	30	PCE3576CT-ND	2.45	4.60	9.97	36.81	PCE3576TR-ND	1,000	184.00	EEV-HD2A3R3P
	4.7	0.18	1.5	4.7	F	50	PCE3577CT-ND	3.18	5.96	12.92	47.70	PCE3577TR-ND	500	119.50	EEV-HD2A4R7P
	10.0	0.18	1.5	10.0	F	55	PCE3574CT-ND	3.18	5.96	12.92	47.70	PCE3574TR-ND	500	119.50	EEV-HD2A100P
	22.0	0.18	0.8	22.0	G	70	PCE3575CT-ND	3.73	6.99	15.14	55.89	PCE3575TR-ND	500	139.50	EEV-HD2A220P

Panasonic® FC Series

RoHS COMPLIANT

Aluminum Electrolytic Capacitors, Surface Mount Type

Features: • Low Impedance (50% less than HA Series) • Life Time: 1000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Soldering: • **Reflow:** 4 - 6.3mm case 250°C for 5 seconds; 8 - 10mm case 235°C for 5 seconds

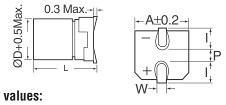

Following specified values:

Impedance 120Hz	6.3V	10V	16V	25V	35V	50V
-25°C/20°C	2	2	2	2	2	2
-40°C/20°C	3	3	3	3	3	3

Size Code	D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
FC Low Impedance High Reliability Series: –40°C ~ 105°C (1000 Hour Life)															
6.3	22	0.26	3.00	3.0	B	60	PCE3984CT-ND	.96	1.58	3.66	13.50	PCE3984TR-ND	2,000	68.00/M	EEE-FC0J220R
	47	0.26	1.80	3.0	C	95	PCE3987CT-ND	1.14	1.88	4.36	16.11	PCE3987TR-ND	1,000	81.00	EEE-FC0J470R
	68	0.26	1.00	4.3	D	140	PCE3988CT-ND	1.35	2.22	5.14	18.99	PCE3988TR-ND	1,000	95.00	EEE-FC0J680P
	100	0.26	1.00	6.3	D	140	PCE3981CT-ND	1.35	2.22	5.14	18.99	PCE3981TR-ND	1,000	95.00	EEE-FC0J101P
	220	0.26	0.40	13.9	E	230	PCE3985CT-ND	2.20	3.63	8.42	31.08	PCE3985TR-ND	1,000	155.00	EEE-FC0J221P
	330	0.26	0.30	20.8	F	450	PCE3986CT-ND	2.85	4.70	10.91	40.29	PCE3986TR-ND	500	100.50	EEE-FC0J331P
	1000	0.26	0.15	63.0	G	670	PCE3982CT-ND	3.34	5.50	12.77	47.16	PCE3982TR-ND	500	118.00	EEE-FC0J102P
	1500	0.26	0.15	94.5	G	670	PCE3983CT-ND	3.67	6.04	14.03	51.81	PCE3983TR-ND	500	129.50	EEE-FC0J152P
10	33	0.19	1.80	3.3	C	95	PCE3993CT-ND	1.14	1.88	4.36	16.11	PCE3993TR-ND	1,000	81.00	EEE-FC1A330R
	100	0.19	0.40	10.0	E	230	PCE3989CT-ND	2.20	3.63	8.42	31.08	PCE3989TR-ND	1,000	155.00	EEE-FC1A101P
	150	0.19	0.40	15.0	E	230	PCE3991CT-ND	2.20	3.63	8.42	31.08	PCE3991TR-ND	1,000	155.00	EEE-FC1A151P
	220	0.19	0.30	22.0	F	450	PCE3992CT-ND	2.85	4.70	10.91	40.29	PCE3992TR-ND	500	100.50	EEE-FC1A221P
	470	0.19	0.15	47.0	G	670	PCE3994CT-ND	3.34	5.50	12.77	47.16	PCE3994TR-ND	500	118.00	EEE-FC1A471P
	1000	0.19	0.15	100.0	G	670	PCE3990CT-ND	3.34	5.50	12.77	47.16	PCE3990TR-ND	500	118.00	EEE-FC1A102P
16	10	0.16	3.00	3.0	B	60	PCE3995CT-ND	.96	1.58	3.66	13.50	PCE3995TR-ND	2,000	68.00/M	EEE-FC1C100R
	22	0.16	1.80	3.5	C	95	PCE3997CT-ND	1.14	1.88	4.36	16.11	PCE3997TR-ND	1,000	81.00	EEE-FC1C220R
	47	0.16	1.00	7.5	D	140	PCE4000CT-ND	1.35	2.22	5.14	18.99	PCE4000TR-ND	1,000	95.00	EEE-FC1C470P
	68	0.16	0.40	10.9	E	230	PCE4002CT-ND	2.20	3.63	8.42	31.08	PCE4002TR-ND	1,000	155.00	EEE-FC1C680P
	100	0.16	0.40	16.0	E	230	PCE3996CT-ND	2.20	3.63	8.42	31.08	PCE3996TR-ND	1,000	155.00	EEE-FC1C101P
	220	0.16	0.15	35.2	G	670	PCE3998CT-ND	3.34	5.50	12.77	47.16	PCE3998TR-ND	500	118.00	EEE-FC1C221P
	330	0.16	0.15	52.8	G	670	PCE3999CT-ND	3.34	5.50	12.77	47.16	PCE3999TR-ND	500	118.00	EEE-FC1C331P
	470	0.16	0.15	75.2	G	670	PCE4001CT-ND	3.34	5.50	12.77	47.16	PCE4001TR-ND	500	118.00	EEE-FC1C471P
25	6.8	0.14	3.00	3.0	B	60	PCE4011CT-ND	.96	1.58	3.66	13.50	PCE4011TR-ND	2,000	68.00/M	EEE-FC1E6R8R
	22	0.14	1.00	5.5	D	140	PCE4004CT-ND	1.35	2.22	5.14	18.99	PCE4004TR-ND	1,000	95.00	EEE-FC1E220P
	33	0.14	1.00	8.2	D	140	PCE4006CT-ND	1.35	2.22	5.14	18.99	PCE4006TR-ND	1,000	95.00	EEE-FC1E330P
	47	0.14	0.40	11.8	E	230	PCE4008CT-ND	2.20	3.63	8.42	31.08	PCE4008TR-ND	1,000	155.00	EEE-FC1E470P
	68	0.14	0.30	17.0	F	450	PCE4010CT-ND	2.85	4.70	10.91	40.29	PCE4010TR-ND	500	100.50	EEE-FC1E680P

(Continued)

Panasonic® FC Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Qty.	Pricing	
25	100	0.14	0.30	25.0	F	450	PCE4003CT-ND	2.85	4.70	10.91	40.29	PCE4003TR-ND	500	100.50	EEE-FC1E101P
	220	0.14	0.15	55.0	G	670	PCE4005CT-ND	3.34	5.50	12.77	47.16	PCE4005TR-ND	500	118.00	EEE-FC1E221P
	330	0.14	0.15	82.5	G	670	PCE4007CT-ND	3.34	5.50	12.77	47.16	PCE4007TR-ND	500	118.00	EEE-FC1E331P
	470	0.14	0.15	117.5	G	670	PCE4009CT-ND	3.67	6.04	14.03	51.81	PCE4009TR-ND	500	129.50	EEE-FC1E471P
35	1.0	0.12	3.00	3.0	B	60	PCE4024CT-ND	.96	1.58	3.66	13.50	PCE4024TR-ND	2,000	68.00/M	EEE-FC1V1R0R
	2.2	0.12	3.00	3.0	B	60	PCE4027CT-ND	.96	1.58	3.66	13.50	PCE4027TR-ND	2,000	68.00/M	EEE-FC1V2R2R
	3.3	0.12	3.00	3.0	B	60	PCE4030CT-ND	.96	1.58	3.66	13.50	PCE4030TR-ND	2,000	68.00/M	EEE-FC1V3R3R
	4.7	0.12	3.00	3.0	B	60	PCE4032CT-ND	.96	1.58	3.66	13.50	PCE4032TR-ND	2,000	68.00/M	EEE-FC1V4R7R
	6.8	0.12	1.80	3.0	C	95	PCE4033CT-ND	1.14	1.88	4.36	16.11	PCE4033TR-ND	1,000	81.00	EEE-FC1V6R8R
	10	0.12	1.80	3.5	C	95	PCE4022CT-ND	1.14	1.88	4.36	16.11	PCE4022TR-ND	1,000	81.00	EEE-FC1V100R
	22	0.12	1.00	7.7	D	140	PCE4025CT-ND	1.35	2.22	5.14	18.99	PCE4025TR-ND	1,000	95.00	EEE-FC1V220P
	33	0.12	0.40	11.6	E	230	PCE4028CT-ND	2.20	3.63	8.42	31.08	PCE4028TR-ND	1,000	155.00	EEE-FC1V330P
	47	0.12	0.40	16.5	E	230	PCE4031CT-ND	2.20	3.63	8.42	31.08	PCE4031TR-ND	1,000	155.00	EEE-FC1V470P
	100	0.12	0.15	35.0	G	670	PCE4023CT-ND	3.34	5.50	12.77	47.16	PCE4023TR-ND	500	118.00	EEE-FC1V101P
	220	0.12	0.15	77.0	G	670	PCE4026CT-ND	3.34	5.50	12.77	47.16	PCE4026TR-ND	500	118.00	EEE-FC1V221P
	330	0.12	0.15	115.5	G	670	PCE4029CT-ND	3.67	6.04	14.03	51.81	PCE4029TR-ND	500	129.50	EEE-FC1V331P
50	1	0.12	5.00	3.0	B	30	PCE4014CT-ND	.96	1.58	3.66	13.50	PCE4014TR-ND	2,000	68.00/M	EEE-FC1H1R0R
	2.2	0.12	5.00	3.0	B	30	PCE4017CT-ND	.96	1.58	3.66	13.50	PCE4017TR-ND	2,000	68.00/M	EEE-FC1H2R2R
	3.3	0.12	5.00	3.0	B	30	PCE4019CT-ND	.96	1.58	3.66	13.50	PCE4019TR-ND	2,000	68.00/M	EEE-FC1H3R3R
	4.7	0.12	3.00	3.0	C	50	PCE4021CT-ND	1.14	1.88	4.36	16.11	PCE4021TR-ND	1,000	81.00	EEE-FC1H4R7R
	10	0.12	2.00	5.0	D	70	PCE4012CT-ND	1.35	2.22	5.14	18.99	PCE4012TR-ND	1,000	95.00	EEE-FC1H100P
	22	0.12	0.70	11.0	E	120	PCE4015CT-ND	2.20	3.63	8.42	31.08	PCE4015TR-ND	1,000	155.00	EEE-FC1H220P
	33	0.12	0.60	16.5	F	300	PCE4018CT-ND	2.85	4.70	10.91	40.29	PCE4018TR-ND	500	100.50	EEE-FC1H330P
	47	0.12	0.30	23.5	G	500	PCE4020CT-ND	3.34	5.50	12.77	47.16	PCE4020TR-ND	500	118.00	EEE-FC1H470P
	100	0.12	0.30	50.0	G	500	PCE4013CT-ND	3.34	5.50	12.77	47.16	PCE4013TR-ND	500	118.00	EEE-FC1H101P
	220	0.12	0.30	110.0	G	500	PCE4016CT-ND	3.67	6.04	14.03	51.81	PCE4016TR-ND	500	129.50	EEE-FC1H221P

Panasonic® FC Series Aluminum Electrolytic Capacitors, Surface Mount Type — High Temperature Reflow (260°C)

Digi-Reel®

Features: • Low Impedance (50% less than HA Series) • Life Time: 1000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement
Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Soldering: Reflow (I.R. or I.R. + Heated Air. VPS not allowed.)

Can Size - mm (Size Code)	Peak Temperature	Duration (Temp. ≥230°C)	Duration (Temp. ≥255°C)	Reflow Frequency
4 ~ 6.3, 8 x 10.2 (B, C, D, F)	260°C	60 seconds	5 seconds	2‡
8 x 6.2, 10 x 10.2 (E, G)	260°C	60 seconds	5 seconds	1

‡ Capacitor must return to room temperature before the second reflow.

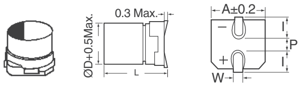

Impedance 120Hz	Rated Working Voltage				
	6.3V	10V	16V	25V	35V
-25°C/20°C	2	2	2	2	2
-40°C/20°C	3	3	3	3	3

Size Code	Dimensions (mm)					
	D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Qty.	Pricing	
6.3	22	0.26	3.00	3.0	B	60	PCE4329CT-ND	1.05	1.74	4.03	14.88	PCE4329TR-ND	2,000	74.00/M	EEE-FC0J220AR
	47	0.26	1.80	3.0	C	95	PCE4330CT-ND	1.25	2.07	4.79	17.70	PCE4330TR-ND	1,000	89.00	EEE-FC0J470AR
	68	0.26	1.00	4.3	D	140	PCE4331CT-ND	1.48	2.44	5.66	20.88	PCE4331TR-ND	1,000	104.00	EEE-FC0J680AP
	100	0.26	1.00	6.3	D	140	PCE4332CT-ND	1.48	2.44	5.66	20.88	PCE4332TR-ND	1,000	104.00	EEE-FC0J101AP
	220	0.26	0.40	13.8	E	230	PCE4333CT-ND	2.42	3.99	9.26	34.20	PCE4333TR-ND	1,000	171.00	EEE-FC0J221AP
	330	0.26	0.30	20.7	F	450	PCE4334CT-ND	3.14	5.17	11.99	44.28	PCE4334TR-ND	500	110.50	EEE-FC0J331AP
	1000	0.26	0.15	63.0	G	670	PCE4335CT-ND	3.68	6.06	14.06	51.90	PCE4335TR-ND	500	130.00	EEE-FC0J102AP
	1500	0.26	0.15	94.5	G	670	PCE4336CT-ND	4.04	6.65	15.43	56.97	PCE4336TR-ND	500	142.50	EEE-FC0J152AP
10	33	0.19	1.80	3.3	C	95	PCE4337CT-ND	1.25	2.07	4.79	17.70	PCE4337TR-ND	1,000	89.00	EEE-FC1A330AR
	100	0.19	0.40	10.0	E	230	PCE4338CT-ND	2.42	3.99	9.26	34.20	PCE4338TR-ND	1,000	171.00	EEE-FC1A101AP
	150	0.19	0.40	15.0	E	230	PCE4339CT-ND	2.42	3.99	9.26	34.20	PCE4339TR-ND	1,000	171.00	EEE-FC1A151AP
	220	0.19	0.30	22.0	F	450	PCE4340CT-ND	3.14	5.17	11.99	44.28	PCE4340TR-ND	500	110.50	EEE-FC1A221AP
	470	0.19	0.15	47.0	G	670	PCE4341CT-ND	3.68	6.06	14.06	51.90	PCE4341TR-ND	500	130.00	EEE-FC1A471AP
	1000	0.19	0.15	100.0	G	670	PCE4342CT-ND	3.68	6.06	14.06	51.90	PCE4342TR-ND	500	130.00	EEE-FC1A102AP
16	10	0.16	3.00	3.0	B	60	PCE4343CT-ND	1.05	1.74	4.03	14.88	PCE4343TR-ND	2,000	74.00/M	EEE-FC1C100AR
	22	0.16	1.80	3.5	C	95	PCE4344CT-ND	1.25	2.07	4.79	17.70	PCE4344TR-ND	1,000	89.00	EEE-FC1C220AR
	47	0.16	1.00	7.5	D	140	PCE4345CT-ND	1.48	2.44	5.66	20.88	PCE4345TR-ND	1,000	104.00	EEE-FC1C470AP
	68	0.16	0.40	10.8	E	230	PCE4346CT-ND	2.42	3.99	9.26	34.20	PCE4346TR-ND	1,000	171.00	EEE-FC1C680AP
	100	0.16	0.40	16.0	E	230	PCE4347CT-ND	2.42	3.99	9.26	34.20	PCE4347TR-ND	1,000	171.00	EEE-FC1C101AP
	220	0.16	0.15	35.2	G	670	PCE4348CT-ND	3.68	6.06	14.06	51.90	PCE4348TR-ND	500	130.00	EEE-FC1C221AP
	330	0.16	0.15	52.8	G	670	PCE4349CT-ND	3.68	6.06	14.06	51.90	PCE4349TR-ND	500	130.00	EEE-FC1C331AP
	470	0.16	0.15	75.2	G	670	PCE4350CT-ND	3.68	6.06	14.06	51.90	PCE4350TR-ND	500	130.00	EEE-FC1C471AP
	680	0.16	0.15	108.8	G	670	PCE4351CT-ND	4.04	6.65	15.43	56.97	PCE4351TR-ND	500	142.50	EEE-FC1C681AP
25	6.8	0.14	3.00	3.0	B	60	PCE4352CT-ND	1.05	1.74	4.03	14.88	PCE4352TR-ND	2,000	74.00/M	EEE-FC1E6R8AR
	22	0.14	1.00	5.5	D	140	PCE4353CT-ND	1.48	2.44	5.66	20.88	PCE4353TR-ND	1,000	104.00	EEE-FC1E220AP
	33	0.14	1.00	8.2	D	140	PCE4354CT-ND	1.48	2.44	5.66	20.88	PCE4354TR-ND	1,000	104.00	EEE-FC1E330AP
	47	0.14	0.40	11.7	E	230	PCE4355CT-ND	2.42	3.99	9.26	34.20	PCE4355TR-ND	1,000	171.00	EEE-FC1E470AP
	68	0.14	0.30	17.0	F	450	PCE4356CT-ND	3.14	5.17	11.99	44.28	PCE4356TR-ND	500	110.50	EEE-FC1E680AP
	100	0.14	0.30	25.0	F	450	PCE4357CT-ND	3.14	5.17	11.99	44.28	PCE4357TR-ND	500	110.50	EEE-FC1E101AP
	220	0.14	0.15	55.0	G	670	PCE4358CT-ND	3.68	6.06	14.06	51.90	PCE4358TR-ND	500	130.00	EEE-FC1E221AP
	330	0.14	0.15	82.5	G	670	PCE4359CT-ND	3.68	6.06	14.06	51.90	PCE4359TR-ND	500	130.00	EEE-FC1E331AP
	470	0.14	0.15	117.5	G	670	PCE4360CT-ND	4.04	6.65	15.43	56.97	PCE4360TR-ND	500	142.50	EEE-FC1E471AP
35	1	0.12	3.00	3.0	B	60	PCE4361CT-ND	1.05	1.74	4.03	14.88	PCE4361TR-ND	2,000	74.00/M	EEE-FC1V1R0AR
	2.2	0.12	3.00	3.0	B	60	PCE4362CT-ND	1.05	1.74	4.03	14.88	PCE4362TR-ND	2,000	74.00/M	EEE-FC1V2R2AR
	3.3	0.12	3.00	3.0	B	60	PCE4363CT-ND	1.05	1.74	4.03	14.88	PCE4363TR-ND	2,000	74.00/M	EEE-FC1V3R3AR
	4.7	0.12	3.00	3.0	B	60	PCE4364CT-ND	1.05	1.74	4.03	14.88	PCE4364TR-ND	2,000	74.00/M	EEE-FC1V4R7AR
	6.8	0.12	1.80	3.0	C	95	PCE4365CT-ND	1.25	2.07	4.79	17.70	PCE4365TR-ND	1,000	89.00	EEE-FC1V6R8AR
	10	0.12	1.80	3.5	C	95	PCE4366CT-ND	1.25	2.07	4.79	17.70	PCE4366TR-ND	1,000	89.00	EEE-FC1V100AR
	22	0.12	1.00	7.7	D	140	PCE4367CT-ND	1.48	2.44	5.66	20.88	PCE4367TR-ND	1,000	104.00	EEE-FC1V220AP
	33	0.12	0.40	11.5	E	230	PCE4368CT-ND	2.42	3.99	9.26	34.20	PCE4368TR-ND	1,000	171.00	EEE-FC1V330AP
	47	0.12	0.40	16.4	E	230	PCE4369CT-ND	2.42	3.99	9.26	34.20	PCE4369TR-ND	1,000	171.00	EEE-FC1V470AP
	100	0.12	0.15	35.0	G	670	PCE4370CT-ND	3.68	6.06	14.06	51.90	PCE4370TR-ND	500	130.00	EEE-FC1V101AP
	220	0.12	0.15	77.0	G	670	PCE4371CT-ND	3.68	6.06	14.06	51.90	PCE4371TR-ND	500	130.00	EEE-FC1V221AP
	330	0.12	0.15	115.5	G	670	PCE4372CT-ND	4.04	6.65	15.43	56.97	PCE4372TR-ND	500	142.50	EEE-FC1V331AP

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® FC Series

Aluminum Electrolytic Capacitors, Surface Mount Type

Digi-Reel®

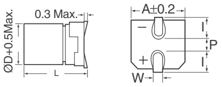

Features: • Low Impedance (50% less than HA Series) • Life Time: 1000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
-25°C/20°C	2	2	2	2	2	2
-40°C/20°C	3	3	3	3	3	3

Size Code	Dimensions (mm) øD	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Impedance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Current 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Qty.	Pricing	
FC Low Impedance High Reliability Series: –40°C ~ 105°C (1000 Hour Life)															
6.3	22	0.26	3.00	3.0	B	60	PCE3090CT-ND	1.06	1.74	4.05	14.94	PCE3090TR-ND	2,000	75.00/M	EEV-FC0J220R
	47	0.26	1.80	3.0	C	95	PCE3091CT-ND	1.26	2.08	4.83	17.82	PCE3091TR-ND	1,000	89.00	EEV-FC0J470R
	68	0.26	1.00	4.3	D	140	PCE3092CT-ND	1.49	2.45	5.69	21.00	PCE3092TR-ND	1,000	105.00	EEV-FC0J680P
	100	0.26	1.00	6.3	D	140	PCE3093CT-ND	1.49	2.45	5.69	21.00	PCE3093TR-ND	1,000	105.00	EEV-FC0J101P
	220	0.26	0.40	13.9	E	230	PCE3094CT-ND	2.43	4.01	9.30	34.35	PCE3094TR-ND	1,000	172.00	EEV-FC0J221P
	330	0.26	0.30	20.8	F	450	PCE3095CT-ND	3.15	5.19	12.06	44.52	PCE3095TR-ND	500	111.50	EEV-FC0J331P
	1000	0.26	0.15	63.0	G	670	PCE3243CT-ND	3.69	6.08	14.12	52.14	PCE3243TR-ND	500	130.50	EEV-FC0J102P
	1500	0.26	0.15	94.5	G	670	PCE3244CT-ND	4.05	6.68	15.50	57.24	PCE3244TR-ND	500	143.00	EEV-FC0J152P
10	33	0.19	1.80	3.3	C	95	PCE3096CT-ND	1.26	2.08	4.83	17.82	PCE3096TR-ND	1,000	89.00	EEV-FC1A330R
	100	0.19	0.40	10.0	E	230	PCE3097CT-ND	2.43	4.01	9.30	34.35	PCE3097TR-ND	1,000	172.00	EEV-FC1A101P
	150	0.19	0.40	15.0	E	230	PCE3098CT-ND	2.43	4.01	9.30	34.35	PCE3098TR-ND	1,000	172.00	EEV-FC1A151P
	220	0.19	0.30	22.0	F	450	PCE3099CT-ND	3.15	5.19	12.06	44.52	PCE3099TR-ND	500	111.50	EEV-FC1A221P
	470	0.19	0.15	47.0	G	670	PCE3100CT-ND	3.69	6.08	14.12	52.14	PCE3100TR-ND	500	130.50	EEV-FC1A471P
	1000	0.19	0.15	100.0	G	670	PCE3245CT-ND	3.69	6.08	14.12	52.14	PCE3245TR-ND	500	130.50	EEV-FC1A102P
16	10	0.16	3.00	3.0	B	60	PCE3101CT-ND	1.06	1.74	4.05	14.94	PCE3101TR-ND	2,000	75.00/M	EEV-FC1C100R
	22	0.16	1.80	3.5	C	95	PCE3102CT-ND	1.26	2.08	4.83	17.82	PCE3102TR-ND	1,000	89.00	EEV-FC1C220R
	47	0.16	1.00	7.5	D	140	PCE3103CT-ND	1.49	2.45	5.69	21.00	PCE3103TR-ND	1,000	105.00	EEV-FC1C470P
	68	0.16	0.40	10.9	E	230	PCE3104CT-ND	2.43	4.01	9.30	34.35	PCE3104TR-ND	1,000	172.00	EEV-FC1C680P
	100	0.16	0.40	16.0	E	230	PCE3105CT-ND	2.43	4.01	9.30	34.35	PCE3105TR-ND	1,000	172.00	EEV-FC1C101P
	220	0.16	0.15	35.2	G	670	PCE3106CT-ND	3.69	6.08	14.12	52.14	PCE3106TR-ND	500	130.50	EEV-FC1C221P
	330	0.16	0.15	52.8	G	670	PCE3107CT-ND	3.69	6.08	14.12	52.14	PCE3107TR-ND	500	130.50	EEV-FC1C331P
	470	0.16	0.15	75.2	G	670	PCE3246CT-ND	3.69	6.08	14.12	52.14	PCE3246TR-ND	500	130.50	EEV-FC1C471P
25	6.8	0.14	3.00	3.0	B	60	PCE3108CT-ND	1.06	1.74	4.05	14.94	PCE3108TR-ND	2,000	75.00/M	EEV-FC1E6R8R
	22	0.14	1.00	5.5	D	140	PCE3109CT-ND	1.49	2.45	5.69	21.00	PCE3109TR-ND	1,000	105.00	EEV-FC1E220P
	33	0.14	1.00	8.2	D	140	PCE3110CT-ND	1.49	2.45	5.69	21.00	PCE3110TR-ND	1,000	105.00	EEV-FC1E330P
	47	0.14	0.40	11.8	E	230	PCE3111CT-ND	2.43	4.01	9.30	34.35	PCE3111TR-ND	1,000	172.00	EEV-FC1E470P
	68	0.14	0.30	17.0	F	450	PCE3112CT-ND	3.15	5.19	12.06	44.52	PCE3112TR-ND	500	111.50	EEV-FC1E680P
	100	0.14	0.30	25.0	F	450	PCE3247CT-ND	3.15	5.19	12.06	44.52	PCE3247TR-ND	500	111.50	EEV-FC1E101P
	330	0.14	0.15	82.5	G	670	PCE3248CT-ND	3.69	6.08	14.12	52.14	PCE3248TR-ND	500	130.50	EEV-FC1E331P
	470	0.14	0.15	117.5	G	670	PCE3249CT-ND	4.05	6.68	15.50	57.24	PCE3249TR-ND	500	143.00	EEV-FC1E471P
35	1.0	0.12	3.00	3.0	B	60	PCE3113CT-ND	1.06	1.74	4.05	14.94	PCE3113TR-ND	2,000	75.00/M	EEV-FC1V1R0R
	2.2	0.12	3.00	3.0	B	60	PCE3114CT-ND	1.06	1.74	4.05	14.94	PCE3114TR-ND	2,000	75.00/M	EEV-FC1V2R2R
	3.3	0.12	3.00	3.0	B	60	PCE3115CT-ND	1.06	1.74	4.05	14.94	PCE3115TR-ND	2,000	75.00/M	EEV-FC1V3R3R
	4.7	0.12	3.00	3.0	B	60	PCE3116CT-ND	1.06	1.74	4.05	14.94	PCE3116TR-ND	2,000	75.00/M	EEV-FC1V4R7R
	6.8	0.12	1.80	3.0	C	95	PCE3117CT-ND	1.26	2.08	4.83	17.82	PCE3117TR-ND	1,000	89.00	EEV-FC1V6R8R
	10	0.12	1.80	3.5	C	95	PCE3118CT-ND	1.26	2.08	4.83	17.82	PCE3118TR-ND	1,000	89.00	EEV-FC1V100R
	22	0.12	1.00	7.7	D	140	PCE3119CT-ND	1.49	2.45	5.69	21.00	PCE3119TR-ND	1,000	105.00	EEV-FC1V220P
	33	0.12	0.40	11.6	E	230	PCE3120CT-ND	2.43	4.01	9.30	34.35	PCE3120TR-ND	1,000	172.00	EEV-FC1V330P
	47	0.12	0.40	16.5	E	230	PCE3121CT-ND	2.43	4.01	9.30	34.35	PCE3121TR-ND	1,000	172.00	EEV-FC1V470P
	100	0.12	0.15	35.0	G	670	PCE3122CT-ND	3.69	6.08	14.12	52.14	PCE3122TR-ND	500	130.50	EEV-FC1V101P
	220	0.12	0.15	77.0	G	670	PCE3250CT-ND	3.69	6.08	14.12	52.14	PCE3250TR-ND	500	130.50	EEV-FC1V221P
	330	0.12	0.15	115.5	G	670	PCE3251CT-ND	4.05	6.68	15.50	57.24	PCE3251TR-ND	500	143.00	EEV-FC1V331P
50	1	0.12	5.00	3.0	B	30	PCE3252CT-ND	1.06	1.74	4.05	14.94	PCE3252TR-ND	2,000	75.00/M	EEV-FC1H1R0R
	2.2	0.12	5.00	3.0	B	30	PCE3253CT-ND	1.06	1.74	4.05	14.94	PCE3253TR-ND	2,000	75.00/M	EEV-FC1H2R2R
	3.3	0.12	5.00	3.0	B	30	PCE3254CT-ND	1.06	1.74	4.05	14.94	PCE3254TR-ND	2,000	75.00/M	EEV-FC1H3R3R
	4.7	0.12	3.00	3.0	C	50	PCE3255CT-ND	1.26	2.08	4.83	17.82	PCE3255TR-ND	1,000	89.00	EEV-FC1H4R7R
	10	0.12	2.00	5.0	D	70	PCE3256CT-ND	1.49	2.45	5.69	21.00	PCE3256TR-ND	1,000	105.00	EEV-FC1H100P
	22	0.12	0.70	11.0	E	120	PCE3257CT-ND	2.43	4.01	9.30	34.35	PCE3257TR-ND	1,000	172.00	EEV-FC1H220P
	33	0.12	0.60	16.5	F	300	PCE3258CT-ND	3.15	5.19	12.06	44.52	PCE3258TR-ND	500	111.50	EEV-FC1H330P
	47	0.12	0.30	23.5	G	500	PCE3259CT-ND	3.69	6.08	14.12	52.14	PCE3259TR-ND	500	130.50	EEV-FC1H470P
	100	0.12	0.30	50.0	G	500	PCE3260CT-ND	3.69	6.08	14.12	52.14	PCE3260TR-ND	500	130.50	EEV-FC1H101P
	220	0.12	0.30	110.0	G	500	PCE3261CT-ND	4.05	6.68	15.50	57.24	PCE3261TR-ND	500	143.00	EEV-FC1H221P

FK Series Aluminum Electrolytic Capacitors, Surface Mount Type — High Temperature Reflow (260°C)

Digi-Reel® RoHS COMPLIANT

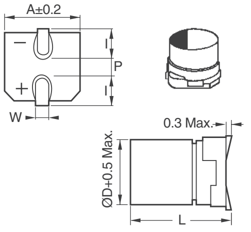

Features: • Low impedance (40 ~ 60% lower than FC series) Small Size (30 ~ 50% smaller than FC series) • Long Life: 2000 ~ 5000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel packaging for automatic placement **Specifications:** • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3 (µA) whichever is greater after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

Soldering: Reflow (I.R or I.R + Heated Air. VPS is not allowed.)

Can Size - mm (Size Code)	Peak Temperature	Duration (Temp. ≥230°C)	Duration (Temp. ≥255°C)	Reflow Frequency
ø4 ~ ø6.3, ø8 x 10.2 (B, C, D, D8, F)	260°C	60 seconds	5 seconds	2‡
ø8 x 6.2, ø10 x 10.2 (E, G)	260°C	60 seconds	5 seconds	1

‡ Capacitor must return to room temperature before the second reflow.

Following Specified Values:

Impedance 120Hz	Rated Working Voltage 6.3V	10V	16V	25V	35V
-25°C / 20°C	2	2	2	2	2
-40°C / 20°C	3	3	3	3	3
-55°C / 20°C	4	4	4	3	3

Size Code	Dimensions (mm) øD	L	A	I	W	P
B	4	5.8	4.3	1.8	0.65±0.1	1.0
C	5	5.8	5.3	2.2	0.65±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8	6.2	8.3	3.4	0.65±0.1	2.2
F	8	10.2	8.3	3.4	0.90±0.2	3.1
G	10	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Impedance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Current 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Qty.	Pricing	
6.3	22	0.26	1.35	3.0	B	90	PCE4373CT-ND	1.21	1.99	4.62	17.04	PCE4373TR-ND	2,000	85.00/M	EEE-FK0J220AR
	47	0.26	1.35	3.0	B	90	PCE4374CT-ND	1.21	1.99	4.62	17.04	PCE4374TR-ND	2,000	85.00/M	EEE-FKJ470UAR
	47	0.26	0.7	3.0	C	160	PCE4375CT-ND	1.44	2.37	5.49	20.28	PCE4375TR-ND	1,000	101.00	EEE-FK0J470AR
	100	0.26	0.7	6.3	C	160	PCE4376CT-ND	1.44	2.37	5.49	20.28	PCE4376TR-ND	1,000	101.00	EEE-FKJ101UAR
	100	0.26	0.36	6.3	D	240	PCE4377CT-ND	1.69	2.79	6.47	23.88	PCE4377TR-ND	1,000	119.00	EEE-FK0J101AP
	220	0.26	0.36	13.8	D	240	PCE4378CT-ND	1.69	2.79	6.47	23.88	PCE4378TR-ND	1,000	119.00	EEE-FK0J221AP
	330	0.26	0.34	20.7	D8	280	PCE4379CT-ND	2.31	3.80	8.82	32.55	PCE4379TR-ND	900	146.70	EEE-FKJ331XAP
	330	0.26	0.26	20.7	E	300	PCE4380CT-ND	2.77	4.56	10.58	39.06	PCE4380TR-ND	1,000	195.00	EEE-FK0J331AP
	470	0.26	0.16	29.6	F	600	PCE4381CT-ND	3.59	5.91	13.72	50.67	PCE4381TR-ND	500	126.50	EEE-FK0J471AP
	1000	0.26	0.16	63.0	F	600	PCE4382CT-ND	3.59	5.91	13.72	50.67	PCE4382TR-ND	500	126.50	EEE-FK0J102AP
	1500	0.26	0.08	94.5	G	850	PCE4383CT-ND	4.20	6.92	16.06	59.31	PCE4383TR-ND	500	148.50	EEE-FK0J152AP
10	22	0.19	1.35	3.0	B	90	PCE4384CT-ND	1.21	1.99	4.62	17.04	PCE4384TR-ND	2,000	85.00/M	EEE-FK1A220AR
	33	0.19	1.35	3.3	B	90	PCE4385CT-ND	1.21	1.99	4.62	17.04	PCE4385TR-ND	2,000	85.00/M	EEE-FKA330UAR
	33	0.19	0.7	3.3	C	160	PCE4386CT-ND	1.44	2.37	5.49	20.28	PCE4386TR-ND	1,000	101.00	EEE-FK1A330AR
	150	0.19	0.36	15.0	D	240	PCE4387CT-ND	1.69	2.79	6.47	23.88	PCE4387TR-ND	1,000	119.00	EEE-FK1A151AP

(Continued)

Panasonic FK Series Aluminum Electrolytic Capacitors, Surface Mount Type — High Temperature Reflow (260°C) *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Current 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
10	220	0.19	0.34	22.0	D8	280	PCE4388CT-ND	2.31	3.80	8.82	32.55	PCE4388TR-ND	900	146.70	EEE-FKA221XAP
	220	0.19	0.26	22.0	E	300	PCE4389CT-ND	2.77	4.56	10.58	39.06	PCE4389TR-ND	1,000	195.00	EEE-FK1A221AP
	330	0.19	0.16	33.0	F	600	PCE4390CT-ND	3.59	5.91	13.72	50.67	PCE4390TR-ND	500	126.50	EEE-FK1A331AP
	470	0.19	0.16	47.0	F	600	PCE4391CT-ND	3.59	5.91	13.72	50.67	PCE4391TR-ND	500	126.50	EEE-FK1A471AP
	680	0.19	0.16	68.0	F	600	PCE4392CT-ND	3.59	5.91	13.72	50.67	PCE4392TR-ND	500	126.50	EEE-FK1A681AP
	1000	0.19	0.08	100.0	G	850	PCE4393CT-ND	4.20	6.92	16.06	59.31	PCE4393TR-ND	500	148.50	EEE-FK1A102AP
16	10	0.16	1.35	3.0	B	90	PCE4394CT-ND	1.21	1.99	4.62	17.04	PCE4394TR-ND	2,000	85.00/M	EEE-FK1C100AR
	22	0.16	1.35	3.5	B	90	PCE4395CT-ND	1.21	1.99	4.62	17.04	PCE4395TR-ND	2,000	85.00/M	EEE-FKC220UAR
	22	0.16	0.7	3.5	C	160	PCE4396CT-ND	1.44	2.37	5.49	20.28	PCE4396TR-ND	1,000	101.00	EEE-FK1C220AR
	47	0.16	0.7	7.5	C	160	PCE4397CT-ND	1.44	2.37	5.49	20.28	PCE4397TR-ND	1,000	101.00	EEE-FKC470UAR
	47	0.16	0.36	7.5	D	240	PCE4398CT-ND	1.69	2.79	6.47	23.88	PCE4398TR-ND	1,000	119.00	EEE-FK1C470AP
	68	0.16	0.36	10.8	D	240	PCE4399CT-ND	1.69	2.79	6.47	23.88	PCE4399TR-ND	1,000	119.00	EEE-FK1C680AP
	100	0.16	0.36	16.0	D	240	PCE4400CT-ND	1.69	2.79	6.47	23.88	PCE4400TR-ND	1,000	119.00	EEE-FK1C101AP
	150	0.16	0.34	24.0	D8	280	PCE4401CT-ND	2.31	3.80	8.82	32.55	PCE4401TR-ND	900	146.70	EEE-FKC151XAP
	220	0.16	0.34	35.2	D8	280	PCE4402CT-ND	2.31	3.80	8.82	32.55	PCE4402TR-ND	900	146.70	EEE-FKC221XAP
	220	0.16	0.26	35.2	E	300	PCE4403CT-ND	2.77	4.56	10.58	39.06	PCE4403TR-ND	1,000	195.00	EEE-FK1C221AP
	330	0.16	0.16	52.8	F	600	PCE4404CT-ND	3.59	5.91	13.72	50.67	PCE4404TR-ND	500	126.50	EEE-FK1C331AP
	470	0.16	0.16	75.2	F	600	PCE4405CT-ND	3.59	5.91	13.72	50.67	PCE4405TR-ND	500	126.50	EEE-FK1C471AP
	680	0.16	0.08	108.8	G	850	PCE4406CT-ND	4.20	6.92	16.06	59.31	PCE4406TR-ND	500	148.50	EEE-FK1C681AP
25	10	0.14	1.35	3.0	B	90	PCE4407CT-ND	1.21	1.99	4.62	17.04	PCE4407TR-ND	2,000	85.00/M	EEE-FK1E100AR
	22	0.14	0.7	5.5	C	160	PCE4408CT-ND	1.44	2.37	5.49	20.28	PCE4408TR-ND	1,000	101.00	EEE-FK1E220AR
	33	0.14	0.7	8.2	C	160	PCE4409CT-ND	1.44	2.37	5.49	20.28	PCE4409TR-ND	1,000	101.00	EEE-FKE330UAR
	33	0.14	0.36	8.2	D	240	PCE4410CT-ND	1.69	2.79	6.47	23.88	PCE4410TR-ND	1,000	119.00	EEE-FK1E330AP
	47	0.14	0.36	11.7	D	240	PCE4411CT-ND	1.69	2.79	6.47	23.88	PCE4411TR-ND	1,000	119.00	EEE-FK1E470AP
	68	0.14	0.36	17.0	D	240	PCE4412CT-ND	1.69	2.79	6.47	23.88	PCE4412TR-ND	1,000	119.00	EEE-FK1E680AP
	100	0.14	0.34	25.0	D8	280	PCE4413CT-ND	2.31	3.80	8.82	32.55	PCE4413TR-ND	900	146.70	EEE-FKE101XAP
	100	0.14	0.26	25.0	E	300	PCE4414CT-ND	2.77	4.56	10.58	39.06	PCE4414TR-ND	1,000	195.00	EEE-FK1E101AP
	150	0.14	0.16	37.5	F	600	PCE4415CT-ND	3.59	5.91	13.72	50.67	PCE4415TR-ND	500	126.50	EEE-FK1E151AP
	220	0.14	0.16	55.0	F	600	PCE4416CT-ND	3.59	5.91	13.72	50.67	PCE4416TR-ND	500	126.50	EEE-FK1E221AP
	330	0.14	0.16	82.5	F	600	PCE4417CT-ND	3.59	5.91	13.72	50.67	PCE4417TR-ND	500	126.50	EEE-FK1E331AP
	470	0.14	0.08	117.5	G	850	PCE4418CT-ND	4.20	6.92	16.06	59.31	PCE4418TR-ND	500	148.50	EEE-FK1E471AP
35	4.7	0.12	1.35	3.0	B	90	PCE4419CT-ND	1.21	1.99	4.62	17.04	PCE4419TR-ND	2,000	85.00/M	EEE-FK1V4R7AR
	10	0.12	1.35	3.5	B	90	PCE4420CT-ND	1.21	1.99	4.62	17.04	PCE4420TR-ND	2,000	85.00/M	EEE-FKV100UAR
	10	0.12	0.7	3.5	C	160	PCE4421CT-ND	1.44	2.37	5.49	20.28	PCE4421TR-ND	1,000	101.00	EEE-FK1V100AR
	22	0.12	0.7	7.7	C	160	PCE4422CT-ND	1.44	2.37	5.49	20.28	PCE4422TR-ND	1,000	101.00	EEE-FK1V220AR
	33	0.12	0.36	11.5	D	240	PCE4423CT-ND	1.69	2.79	6.47	23.88	PCE4423TR-ND	1,000	119.00	EEE-FK1V330AP
	47	0.12	0.36	16.4	D	240	PCE4424CT-ND	1.69	2.79	6.47	23.88	PCE4424TR-ND	1,000	119.00	EEE-FK1V470AP
	68	0.12	0.34	23.8	D8	280	PCE4425CT-ND	2.31	3.80	8.82	32.55	PCE4425TR-ND	900	146.70	EEE-FKV680XAP
	100	0.12	0.16	35.0	F	600	PCE4426CT-ND	3.59	5.91	13.72	50.67	PCE4426TR-ND	500	126.50	EEE-FK1V101AP
	150	0.12	0.16	52.5	F	600	PCE4427CT-ND	3.59	5.91	13.72	50.67	PCE4427TR-ND	500	126.50	EEE-FK1V151AP
	220	0.12	0.16	77.0	F	600	PCE4428CT-ND	3.59	5.91	13.72	50.67	PCE4428TR-ND	500	126.50	EEE-FK1V221AP
	330	0.12	0.08	115.5	G	850	PCE4429CT-ND	4.20	6.92	16.06	59.31	PCE4429TR-ND	500	148.50	EEE-FK1V331AP

FK Series Aluminum Electrolytic Capacitors, Surface Mount Type

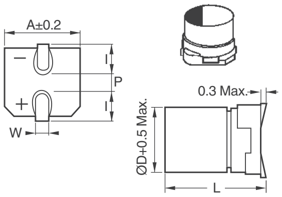

Features: • Low Impedance (40-60% lower than FC) • Small Size (30-50% smaller than FC) • Long Life: 2000-5000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement
Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)
Soldering: • Reflow: 3 - 6mm case 250°C for 5 seconds; 8 - 10mm case 235°C for 5 seconds; 12.5 - 18mm case for 230°C for 5 seconds

Following specified values:

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V	63V	80V	100V
-25°C/+20°C	2	2	2	2	2	2	2	2	2
-40°C/+20°C	3	3	3	3	3	3	3	3	3
-55°C/+20°C	4	4	4	3	3	3	3	3	3

Size Code	Dimensions (mm) øD	L	A	l	W	P
B	4	5.8	4.3	1.8	0.65±0.1	1.0
C	5	5.8	5.3	2.2	0.65±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8	6.2	8.3	3.4	0.65±0.1	2.2
F	8	10.2	8.3	3.4	0.90±0.2	3.1
G	10	10.2	10.3	3.5	0.90±0.2	4.6
H13	12.5	13.5	13.5	4.7	0.90±0.3	4.4
J16	16	16.5	17.0	5.5	1.2±0.3	6.7
K16	18	16.5	19.0	6.7	1.2±0.3	6.7

FK Series: Low Impedance (40-60% lower than FC), High Reliability, –55°C ~ 105°C (2000 Hour Life, GP Suffix 5000 Hour)

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Imped-ance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
6.3	22	0.26	1.35	3.0	B	90	PCE3765CT-ND	1.09	1.80	4.18	15.45	PCE3765TR-ND	2,000	77.00/M	EEE-FK0J220R
	47	0.26	1.35	3.0	B	90	PCE3770CT-ND	1.09	1.80	4.18	15.45	PCE3770TR-ND	2,000	77.00/M	EEE-FK0J470UR
	47	0.26	0.70	3.0	C	160	PCE3769CT-ND	1.30	2.15	4.98	18.39	PCE3769TR-ND	1,000	92.00	EEE-FK0J470R
	100	0.26	0.70	6.3	C	160	PCE3762CT-ND	1.30	2.15	4.98	18.39	PCE3762TR-ND	1,000	92.00	EEE-FK0J101UR
	100	0.26	0.36	6.3	D	240	PCE3761CT-ND	1.54	2.53	5.88	21.72	PCE3761TR-ND	1,000	109.00	EEE-FK0J101P
	220	0.26	0.36	13.9	D	240	PCE3766CT-ND	1.54	2.53	5.88	21.72	PCE3766TR-ND	1,000	109.00	EEE-FK0J221P
	330	0.26	0.34	20.8	D8	280	PCE3768CT-ND	2.10	3.45	8.02	29.61	PCE3768TR-ND	900	133.20	EEE-FK0J331XP
	330	0.26	0.26	20.8	E	300	PCE3767CT-ND	2.52	4.14	9.62	35.52	PCE3767TR-ND	1,000	178.00	EEE-FK0J331P
	470	0.26	0.16	29.6	F	600	PCE3771CT-ND	3.26	5.37	12.46	46.02	PCE3771TR-ND	500	115.00	EEE-FK0J471P
	470	0.26	0.16	29.6	F	600	PCE4308CT-ND	4.04	6.65	15.44	57.00	PCE4308TR-ND	500	139.50	EEE-FK0J471GP
	1000	0.26	0.16	63.0	F	600	PCE3763CT-ND	3.26	5.37	12.46	46.02	PCE3763TR-ND	500	115.00	EEE-FK0J102P
	1000	0.26	0.16	63.0	F	600	PCE4309CT-ND	4.04	6.65	15.44	57.00	PCE4309TR-ND	500	139.50	EEE-FK0J102GP
	1500	0.26	0.08	94.5	G	850	PCE3764CT-ND	3.82	6.29	14.61	53.94	PCE3764TR-ND	500	135.00	EEE-FK0J152P
	1500	0.26	0.08	94.5	G	850	PCE4310CT-ND	4.72	7.77	18.04	66.60	PCE4310TR-ND	500	163.50	EEE-FK0J152GP
	3300	0.30	0.060	207.9	H13	1100	PCE3454CT-ND	7.08	11.66	27.06	99.93	PCE3454TR-ND	200	100.00	EEV-FK0J332Q
	6800	0.36	0.035	428.4	J16	1800	PCE3455CT-ND	11.58	19.08	44.29	—	PCE3455TR-ND	125	102.25	EEV-FK0J682M
10	22	0.19	1.35	3.0	B	90	PCE3774CT-ND	1.09	1.80	4.18	15.45	PCE3774TR-ND	2,000	77.00/M	EEE-FK1A220R
	33	0.19	1.35	3.3	B	90	PCE3778CT-ND	1.09	1.80	4.18	15.45	PCE3778TR-ND	2,000	77.00/M	EEE-FK1A330UR
	33	0.19	0.70	3.3	C	160	PCE3777CT-ND	1.30	2.15	4.98	18.39	PCE3777TR-ND	1,000	92.00	EEE-FK1A330R
	150	0.19	0.36	15.0	D	240	PCE3773CT-ND	1.54	2.53	5.88	21.72	PCE3773TR-ND	1,000	109.00	EEE-FK1A151P
	220	0.19	0.34	22.0	D8	280	PCE3776CT-ND	2.10	3.45	8.02	29.61	PCE3776TR-ND	900	133.20	EEE-FK1A221XP
	220	0.19	0.26	22.0	E	300	PCE3775CT-ND	2.52	4.14	9.62	35.52	PCE3775TR-ND	1,000	178.00	EEE-FK1A221P
	330	0.19	0.16	33.0	F	600	PCE3779CT-ND	3.26	5.37	12.46	46.02	PCE3779TR-ND	500	115.00	EEE-FK1A331P
	330	0.19	0.16	33.0	F	600	PCE4311CT-ND	4.04	6.65	15.44	57.00	PCE4311TR-ND	500	139.50	EEE-FK1A331GP
	470	0.19	0.16	47.0	F	600	PCE3780CT-ND	3.26	5.37	12.46	46.02	PCE3780TR-ND	500	115.00	EEE-FK1A471P
	470	0.19	0.16	47.0	F	600	PCE4312CT-ND	4.04	6.65	15.44	57.00	PCE4312TR-ND	500	139.50	EEE-FK1A471GP
	680	0.19	0.16	68.0	F	600	PCE3781CT-ND	3.26	5.37	12.46	46.02	PCE3781TR-ND	500	115.00	EEE-FK1A681P
	1000	0.19	0.08	100.0	G	850	PCE3772CT-ND	3.82	6.29	14.61	53.94	PCE3772TR-ND	500	135.00	EEE-FK1A102P
	1000	0.19	0.08	100.0	G	850	PCE4313CT-ND	4.72	7.77	18.04	66.60	PCE4313TR-ND	500	163.50	EEE-FK1A102GP
	2200	0.21	0.060	220.0	H13	1100	PCE3456CT-ND	7.08	11.66	27.06	99.93	PCE3456TR-ND	200	96.60	EEV-FK1A222Q
	4700	0.25	0.035	470.0	J16	1800	PCE3457CT-ND	11.58	19.08	44.29	—	PCE3457TR-ND	125	102.25	EEV-FK1A472M
	6800	0.29	0.033	680.0	K16	2060	PCE3458CT-ND	13.68	22.53	52.29	—	PCE3458TR-ND	125	120.63	EEV-FK1A682M
16	10	0.16	1.35	3.0	B	90	PCE3782CT-ND	1.09	1.80	4.18	15.45	PCE3782TR-ND	2,000	77.00/M	EEE-FK1C100R
	22	0.16	1.35	3.5	B	90	PCE3786CT-ND	1.09	1.80	4.18	15.45	PCE3786TR-ND	2,000	77.00/M	EEE-FK1C220UR
	22	0.16	0.70	3.5	C	160	PCE3785CT-ND	1.30	2.15	4.98	18.39	PCE3785TR-ND	1,000	92.00	EEE-FK1C220R

(Continued)

Panasonic FK Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Imped-ance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Qty.	Pricing	
16	47	0.16	0.70	7.5	C	160	PCE3791CT-ND	1.30	2.15	4.98	18.39	PCE3791TR-ND	1,000	92.00	EEE-FK1C470UR
	47	0.16	0.36	7.5	D	240	PCE3790CT-ND	1.54	2.53	5.88	21.72	PCE3790TR-ND	1,000	109.00	EEE-FK1C470P
	68	0.16	0.36	10.9	D	240	PCE3793CT-ND	1.54	2.53	5.88	21.72	PCE3793TR-ND	1,000	109.00	EEE-FK1C680P
	100	0.16	0.36	16.0	D	240	PCE3783CT-ND	1.54	2.53	5.88	21.72	PCE3783TR-ND	1,000	109.00	EEE-FK1C101P
	150	0.16	0.34	24.0	D8	280	PCE3784CT-ND	2.10	3.45	8.02	29.61	PCE3784TR-ND	900	133.20	EEE-FK1C151XP
	220	0.16	0.34	35.2	D8	280	PCE3788CT-ND	2.10	3.45	8.02	29.61	PCE3778TR-ND	2,000	77.00/M	EEE-FK1C221XP
	220	0.16	0.26	35.2	E	300	PCE3787CT-ND	2.52	4.14	9.62	35.52	PCE3787TR-ND	1,000	178.00	EEE-FK1C221P
	330	0.16	0.16	52.8	F	600	PCE3789CT-ND	3.26	5.37	12.46	46.02	PCE3789TR-ND	500	115.00	EEE-FK1C331P
	330	0.16	0.16	52.8	F	600	PCE4314CT-ND	4.04	6.65	15.44	57.00	PCE4314TR-ND	500	139.50	EEE-FK1C331GP
	470	0.16	0.16	75.2	F	600	PCE3792CT-ND	3.26	5.37	12.46	46.02	PCE3792TR-ND	500	115.00	EEE-FK1C471P
	470	0.16	0.16	75.2	F	600	PCE4315CT-ND	4.04	6.65	15.44	57.00	PCE4315TR-ND	500	139.50	EEE-FK1C471GP
	680	0.16	0.08	108.8	G	850	PCE3794CT-ND	3.82	6.29	14.61	53.94	PCE3794TR-ND	500	135.00	EEE-FK1C681P
	680	0.16	0.08	108.8	G	850	PCE4316CT-ND	4.72	7.77	18.04	66.60	PCE4316TR-ND	500	163.50	EEE-FK1C681GP
	1500	0.16	0.060	240.0	H13	1100	PCE3459CT-ND	7.08	11.66	27.06	99.93	PCE3459TR-ND	200	96.60	EEV-FK1C152Q
	3300	0.20	0.035	528.0	J16	1800	PCE3460CT-ND	11.58	19.08	44.29	—	PCE3460TR-ND	125	102.25	EEV-FK1C332M
	4700	0.22	0.033	752.0	K16	2060	PCE3461CT-ND	13.68	22.53	52.29	—	PCE3461TR-ND	125	120.63	EEV-FK1C472M
25	10	0.14	1.35	3.0	B	90	PCE3795CT-ND	1.09	1.80	4.18	15.45	PCE3795TR-ND	2,000	77.00/M	EEE-FK1E100R
	22	0.14	0.70	5.5	C	160	PCE3799CT-ND	1.30	2.15	4.98	18.39	PCE3799TR-ND	1,000	92.00	EEE-FK1E220R
	33	0.14	0.70	8.3	C	160	PCE3802CT-ND	1.30	2.15	4.98	18.39	PCE3802TR-ND	1,000	92.00	EEE-FK1E330UR
	33	0.14	0.36	8.3	D	240	PCE3801CT-ND	1.54	2.53	5.88	21.72	PCE3801TR-ND	1,000	109.00	EEE-FK1E330P
	47	0.14	0.36	11.8	D	240	PCE3804CT-ND	1.54	2.53	5.88	21.72	PCE3804TR-ND	1,000	109.00	EEE-FK1E470P
	68	0.14	0.36	17.0	D	240	PCE3806CT-ND	1.54	2.53	5.88	21.72	PCE3806TR-ND	1,000	109.00	EEE-FK1E680P
	100	0.14	0.34	25.0	D8	280	PCE3797CT-ND	2.10	3.45	8.02	29.61	PCE3797TR-ND	900	133.20	EEE-FK1E101XP
	100	0.14	0.26	25.0	E	300	PCE3796CT-ND	2.52	4.14	9.62	35.52	PCE3796TR-ND	1,000	178.00	EEE-FK1E101P
	150	0.14	0.16	37.5	F	600	PCE3798CT-ND	3.26	5.37	12.46	46.02	PCE3798TR-ND	500	115.00	EEE-FK1E151P
	220	0.14	0.16	55.0	F	600	PCE3800CT-ND	3.26	5.37	12.46	46.02	PCE3800TR-ND	500	115.00	EEE-FK1E221P
	220	0.14	0.16	55.0	F	600	PCE4317CT-ND	4.04	6.65	15.44	57.00	PCE4317TR-ND	500	139.50	EEE-FK1E221GP
	330	0.14	0.16	82.5	F	600	PCE3803CT-ND	3.26	5.37	12.46	46.02	PCE3803TR-ND	500	115.00	EEE-FK1E331P
	330	0.14	0.16	82.5	F	600	PCE4318CT-ND	4.04	6.65	15.44	57.00	PCE4318TR-ND	500	139.50	EEE-FK1E331GP
	470	0.14	0.08	117.5	G	850	PCE3805CT-ND	3.82	6.29	14.61	53.94	PCE3805TR-ND	500	135.00	EEE-FK1E471P
	470	0.14	0.08	117.5	G	850	PCE4319CT-ND	4.72	7.77	18.04	66.60	PCE4319TR-ND	500	163.50	EEE-FK1E471GP
	1000	0.14	0.060	250.0	H13	1100	PCE3462CT-ND	7.08	11.66	27.06	99.93	PCE3462TR-ND	200	96.60	EEV-FK1E102Q
	2200	0.16	0.035	550.0	J16	1800	PCE3463CT-ND	11.58	19.08	44.29	—	PCE3463TR-ND	125	102.25	EEV-FK1E222M
	3300	0.18	0.033	825.0	K16	2060	PCE3506CT-ND	13.68	22.53	52.29	—	PCE3506TR-ND	125	120.63	EEV-FK1E332M
35	4.7	0.12	1.35	3.0	B	90	PCE3843CT-ND	1.09	1.80	4.18	15.45	PCE3843TR-ND	2,000	77.00/M	EEE-FK1V4R7R
	10	0.12	1.35	3.5	B	90	PCE3834CT-ND	1.09	1.80	4.18	15.45	PCE3834TR-ND	2,000	77.00/M	EEE-FK1V100UR
	10	0.12	0.70	3.5	C	160	PCE3833CT-ND	1.30	2.15	4.98	18.39	PCE3833TR-ND	1,000	92.00	EEE-FK1V100R
	22	0.12	0.70	7.7	C	160	PCE3838CT-ND	1.30	2.15	4.98	18.39	PCE3838TR-ND	1,000	92.00	EEE-FK1V220R
	33	0.12	0.36	11.6	D	240	PCE3840CT-ND	1.54	2.53	5.88	21.72	PCE3840TR-ND	1,000	109.00	EEE-FK1V330P
	47	0.12	0.36	16.5	D	240	PCE3842CT-ND	1.54	2.53	5.88	21.72	PCE3842TR-ND	1,000	109.00	EEE-FK1V470P
	68	0.12	0.34	23.8	D8	280	PCE3844CT-ND	2.10	3.45	8.02	29.61	PCE3844TR-ND	900	133.20	EEE-FK1V680XP
	100	0.12	0.34	35.0	D8	280	PCE3836CT-ND	2.10	3.45	8.02	29.61	PCE3836TR-ND	900	133.20	EEE-FK1V101XP
	100	0.12	0.16	35.0	F	600	PCE3835CT-ND	3.26	5.37	12.46	46.02	PCE3835TR-ND	500	115.00	EEE-FK1V101P
	100	0.12	0.16	35.0	F	600	PCE4320CT-ND	4.04	6.65	15.44	57.00	PCE4320TR-ND	500	139.50	EEE-FK1V101GP
	150	0.12	0.16	52.5	F	600	PCE3837CT-ND	3.26	5.37	12.46	46.02	PCE3837TR-ND	500	115.00	EEE-FK1V151P
	220	0.12	0.16	77.0	F	600	PCE3839CT-ND	3.26	5.37	12.46	46.02	PCE3839TR-ND	500	115.00	EEE-FK1V221P
	220	0.12	0.16	77.0	F	600	PCE4321CT-ND	4.04	6.65	15.44	57.00	PCE4321TR-ND	500	139.50	EEE-FK1V221GP
	330	0.12	0.08	115.5	G	850	PCE3841CT-ND	3.82	6.29	14.61	53.94	PCE3841TR-ND	500	135.00	EEE-FK1V331P
	330	0.12	0.08	115.5	G	850	PCE4322CT-ND	4.72	7.77	18.04	66.60	PCE4322TR-ND	500	163.50	EEE-FK1V331GP
	470	0.12	0.060	164.5	H13	1100	PCE3464CT-ND	7.08	11.66	27.06	99.93	PCE3464TR-ND	200	100.00	EEV-FK1V471Q
	680	0.12	0.060	238.0	H13	1100	PCE3465CT-ND	7.08	11.66	27.06	99.93	PCE3465TR-ND	200	96.60	EEV-FK1V681Q
	1500	0.12	0.035	525.0	J16	1800	PCE3466CT-ND	11.58	19.08	44.29	—	PCE3466TR-ND	125	102.25	EEV-FK1V152M
50	4.7	0.10	2.9	3.0	B	60	PCE3817CT-ND	1.09	1.80	4.18	15.45	PCE3817TR-ND	2,000	77.00/M	EEE-FK1H4R7R
	10	0.10	1.52	5.0	C	85	PCE3808CT-ND	1.30	2.15	4.98	18.39	PCE3808TR-ND	1,000	92.00	EEE-FK1H100UR
	10	0.10	0.88	5.0	D	165	PCE3807CT-ND	1.54	2.53	5.88	21.72	PCE3807TR-ND	1,000	109.00	EEE-FK1H100P
	22	0.10	0.88	11.0	D	165	PCE3811CT-ND	1.54	2.53	5.88	21.72	PCE3811TR-ND	1,000	109.00	EEE-FK1H220P
	33	0.10	0.68	16.5	D8	195	PCE3814CT-ND	2.10	3.45	8.02	29.61	PCE3814TR-ND	900	133.20	EEE-FK1H330XP
	33	0.10	0.68	16.5	E	195	PCE3813CT-ND	2.52	4.15	9.64	35.58	PCE3813TR-ND	1,000	178.00	EEE-FK1H330P
	47	0.10	0.68	23.5	D8	195	PCE3816CT-ND	2.10	3.45	8.02	29.61	PCE3816TR-ND	900	133.20	EEE-FK1H470XP
	47	0.10	0.68	23.5	E	195	PCE3815CT-ND	2.52	4.15	9.64	35.58	PCE3815TR-ND	1,000	178.00	EEE-FK1H470P
	100	0.10	0.34	50.0	F	350	PCE3809CT-ND	3.26	5.37	12.46	46.02	PCE3809TR-ND	500	115.00	EEE-FK1H101P
	100	0.10	0.34	50.0	F	350	PCE4323CT-ND	4.04	6.65	15.44	57.00	PCE4323TR-ND	500	139.50	EEE-FK1H101GP
	150	0.10	0.18	75.0	G	670	PCE3810CT-ND	3.82	6.29	14.61	53.94	PCE3810TR-ND	500	135.00	EEE-FK1H151P
	220	0.10	0.18	110.0	G	670	PCE3812CT-ND	3.82	6.29	14.61	53.94	PCE3812TR-ND	500	135.00	EEE-FK1H221P
	220	0.10	0.18	110.0	G	670	PCE4324CT-ND	4.72	7.77	18.04	66.60	PCE4324TR-ND	500	163.50	EEE-FK1H221GP
	330	0.10	0.12	165.0	H13	900	PCE3475CT-ND	7.08	11.66	27.06	99.93	PCE3475TR-ND	200	96.60	EEV-FK1H331Q
	680	0.10	0.073	340.0	J16	1610	PCE3523CT-ND	11.58	19.08	44.29	—	PCE3523TR-ND	125	102.25	EEV-FK1H681M
	1000	0.10	0.073	500.0	J16	1610	PCE3477CT-ND	11.58	19.08	44.29	—	PCE3477TR-ND	125	102.25	EEV-FK1H102M
63	4.7	0.08	3.0	3.0	C	50	PCE3824CT-ND	1.37	2.26	5.24	19.35	PCE3824TR-ND	1,000	97.00	EEE-FK1J4R7R
	10	0.08	1.5	6.3	D	80	PCE3818CT-ND	1.62	2.66	6.18	22.80	PCE3818TR-ND	1,000	114.00	EEE-FK1J100P
	22	0.08	1.2	13.9	D8	120	PCE3821CT-ND	2.20	3.63	8.42	31.08	PCE3821TR-ND	900	139.50	EEE-FK1J220XP
	22	0.08	1.2	13.9	E	120	PCE3820CT-ND	2.64	4.35	10.11	37.32	PCE3820TR-ND	1,000	187.00	EEE-FK1J220P
	33	0.08	0.65	20.8	F	250	PCE3822CT-ND	3.42	5.64	13.09	48.33	PCE3822TR-ND	500	121.00	EEE-FK1J330P
	47	0.08	0.65	29.6	F	250	PCE3823CT-ND	3.42	5.64	13.09	48.33	PCE3823TR-ND	500	121.00	EEE-FK1J470P
	68	0.08	0.65	42.8	F	250	PCE4307CT-ND	3.26	5.37	12.46	46.02	PCE4307TR-ND	500	115.00	EEE-FK1J680UP
	68	0.08	0.65	42.8	G	250	PCE3825CT-ND	4.01	6.61	15.35	56.67	PCE3825TR-ND	500	141.50	EEE-FK1J680P
	100	0.08	0.35	63.0	G	400	PCE3819CT-ND	4.01	6.61	15.35	56.67	PCE3819TR-ND	500	141.50	EEE-FK1J101P
	150	0.08	0.16	94.5	H13	800	PCE3526CT-ND	7.43	12.24	28.42	104.94	PCE3526TR-ND	200	105.00	EEV-FK1J151Q
	220	0.08	0.16	138.6	H13	800	PCE3484CT-ND	7.43	12.24	28.42	104.94	PCE3484TR-ND	200	105.00	EEV-FK1J221Q
	470	0.08	0.082	296.1	J16	1410	PCE3485CT-ND	12.16	20.03	46.51	—	PCE3485TR-ND	125	107.38	EEV-FK1J471M
	680	0.08	0.080	428.4	K16	1690	PCE3486CT-ND	14.35	23.64	54.88	—	PCE3486TR-ND	125	126.63	EEV-FK1J681M
80	3.3	0.08	5.0	3.0	C	25	PCE3830CT-ND	1.37	2.26	5.24	19.35	PCE3830TR-ND	1,000	97.00	EEE-FK1K3R3R
	4.7	0.08	3.0	3.8	D	40	PCE3832CT-ND	1.62	2.66	6.18	22.80	PCE3832TR-ND	1,000	114.00	EEE-FK1K4R7P
	10	0.08	2.4	8.0	D8	60	PCE3827CT-ND	2.20	3.63	8.42	31.08	PCE3827TR-ND	900	139.50	EEE-FK1K100XP
	10	0.08	2.4	8.0	E	60	PCE3826CT-ND	2.64	4.35	10.11	37.32	PCE3826TR-ND	1,000	187.00	EEE-FK1K100P
	22	0.08	1.3	17.6	F	130	PCE3828CT-ND	3.42	5.64	13.09	48.33	PCE3828TR-ND	500	121.00	EEE-FK1K220P
	33	0.08	1.3	26.4	F	130	PCE3829CT-ND	3.42	5.64	13.09	48.33	PCE3829TR-ND	500	121.00	EEE-FK1K330P
	47	0.08	0.7	37.6	G	200	PCE3831CT-ND	4.01	6.61	15.35	56.67	PCE3831TR-ND	500	141.50	EEE-FK1K470P
	68	0.08	0.32	54.4	H13	500	PCE3528CT-ND	7.43	12.24	28.42	104.94	PCE3528TR-ND	200	105.00	EEV-FK1K680Q
	100	0.08	0.32	80.0	H13	500	PCE3493CT-ND	7.43	12.24	28.42	104.94	PCE3493TR-ND	200	105.00	EEV-FK1K101Q
	150	0.08	0.32	120.0	H13	500	PCE3494CT-ND	7.43	12.24	28.42	104.94	PCE3494TR-ND	200	105.00	EEV-FK1K151Q
	330	0.08	0.17	264.0	J16	793	PCE3495CT-ND	12.16	20.03	46.51	—	PCE3495TR-ND	125	107.38	EEV-FK1K331M
	470	0.08	0.153	376.0	K16	917	PCE3496CT-ND	14.35	23.64	54.88	—	PCE3496TR-ND	125	126.63	EEV-FK1K471M
100	22	0.07	1.3	22.0	F	130	PCE3845CT-ND	3.38	5.57	12.92	47.70	PCE3845TR-ND	500	119.50	EEE-FK2A220P
	33	0.07	0.7	33.0	G	200	PCE3846CT-ND	3.93	6.48	15.03	55.50	PCE3846TR-ND	500	139.00	EEE-FK2A330P
	47	0.07	0.32	47.0	H13	500	PCE3497CT-ND	7.43	12.24	28.42	104.94	PCE3497TR-ND	200	105.00	EEV-FK2A470Q
	68	0.07	0.32	68.0	H13	500	PCE3498CT-ND	7.43	12.24	28.42	104.94	PCE3498TR-ND	200	105.00	EEV-FK2A680Q
	100	0.07	0.17	100.0	J16	793	PCE3504CT-ND	12.16	20.03	46.51	—	PCE3504TR-ND	125	107.38	EEV-FK2A101M
	150	0.07	0.17	150.0	J16	793	PCE3499CT-ND	12.16	20.03	46.51	—	PCE3499TR-ND	125	107.38	EEV-FK2A151M
	220	0.07	0.153	220.0	K16	917	PCE3500CT-ND	14.35	23.64	54.88	—	PCE3500TR-ND	125	126.63	EEV-FK2A221M
	330	0.07	0.153	330.0	K16	917	PCE3505CT-ND	14.35	23.64	54.88	—	PCE3505TR-ND	125	126.63	EEV-FK2A331M

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Panasonic® FK Series Aluminum Electrolytic Capacitors, Surface Mount Type

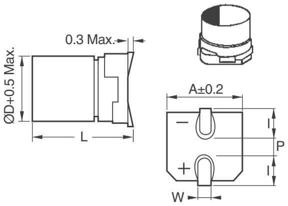

Features: • Low Impedance (40-60% lower than FC) • Small Size (30-50% smaller than FC) • Long Life: 2000-5000H @ 105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V	63V	80V	100V
-25°C/+20°C	2	2	2	2	2	2	2	2	2
-40°C/+20°C	3	3	3	3	3	3	3	3	3
-55°C/+20°C	4	4	4	3	3	3	3	3	3

Size Code	Dimensions (mm) øD	L	A	I	W	P
B	4	5.8	4.3	1.8	0.65±0.1	1.0
C	5	5.8	5.3	2.2	0.65±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8	6.2	8.3	3.4	0.65±0.1	2.2
F	8	10.2	8.3	3.4	0.90±0.2	3.1
G	10	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Imped-ance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Qty.	Pricing	
FK Series: Low Impedance (40-60% lower than FC), High Reliability, –55°C ~ 105°C (2000 Hour Life, GP Suffix 5000 Hour)															
6.3	22	0.26	1.35	3.0	B	90	PCE3377CT-ND	1.21	1.99	4.62	17.07	PCE3377TR-ND	2,000	85.00/M	EEV-FK0J220R
	47	0.26	1.35	3.0	B	90	PCE3378CT-ND	1.21	1.99	4.62	17.07	PCE3378TR-ND	2,000	85.00/M	EEV-FK0J470UR
	47	0.26	0.70	3.0	C	160	PCE3379CT-ND	1.44	2.37	5.51	20.34	PCE3379TR-ND	1,000	102.00	EEV-FK0J470R
	100	0.26	0.70	6.3	C	160	PCE3380CT-ND	1.44	2.37	5.51	20.34	PCE3380TR-ND	1,000	102.00	EEV-FK0J101UR
	100	0.26	0.36	6.3	D	240	PCE3381CT-ND	1.70	2.80	6.50	24.00	PCE3381TR-ND	1,000	120.00	EEV-FK0J101P
	220	0.26	0.36	13.9	D	240	PCE3382CT-ND	1.70	2.80	6.50	24.00	PCE3382TR-ND	1,000	120.00	EEV-FK0J221P
	330	0.26	0.26	20.8	E	300	PCE3383CT-ND	2.78	4.58	10.63	39.24	PCE3383TR-ND	1,000	196.00	EEV-FK0J331P
	330	0.26	0.34	20.8	D8	280	PCE3507CT-ND	2.32	3.82	8.86	32.70	PCE3507TR-ND	900	147.60	EEV-FK0J331XP
	470	0.26	0.16	29.6	F	600	PCE3384CT-ND	3.60	5.94	13.78	50.88	PCE3384TR-ND	500	127.00	EEV-FK0J471P
	470	0.26	0.16	29.6	F	600	PCE3708CT-ND	3.95	6.51	15.11	55.80	PCE3708TR-ND	500	139.50	EEV-FK0J471GP
	1000	0.26	0.16	63.0	F	600	PCE3385CT-ND	3.60	5.94	13.78	50.88	PCE3385TR-ND	500	127.00	EEV-FK0J102P
	1000	0.26	0.16	63.0	F	600	PCE3706CT-ND	3.95	6.51	15.11	55.80	PCE3706TR-ND	500	139.50	EEV-FK0J102GP
	1500	0.26	0.08	94.5	G	850	PCE3386CT-ND	4.22	6.95	16.14	59.61	PCE3386TR-ND	500	149.00	EEV-FK0J152P
	1500	0.26	0.08	94.5	G	850	PCE3707CT-ND	4.63	7.63	17.71	65.40	PCE3707TR-ND	500	163.50	EEV-FK0J152GP
10	22	0.19	1.35	3.0	B	90	PCE3387CT-ND	1.21	1.99	4.62	17.07	PCE3387TR-ND	2,000	85.00/M	EEV-FK1A220R
	33	0.19	1.35	3.3	B	90	PCE3388CT-ND	1.21	1.99	4.62	17.07	PCE3388TR-ND	2,000	85.00/M	EEV-FK1A330UR
	33	0.19	0.70	3.3	C	160	PCE3389CT-ND	1.44	2.37	5.51	20.34	PCE3389TR-ND	1,000	102.00	EEV-FK1A330R
	150	0.19	0.36	15.0	D	240	PCE3508CT-ND	1.70	2.80	6.50	24.00	PCE3508TR-ND	1,000	120.00	EEV-FK1A151P
	220	0.19	0.34	22.0	D8	280	PCE3509CT-ND	2.32	3.82	8.86	32.70	PCE3509TR-ND	900	147.60	EEV-FK1A221XP
	220	0.19	0.26	22.0	E	300	PCE3390CT-ND	2.78	4.58	10.63	39.24	PCE3390TR-ND	1,000	196.00	EEV-FK1A221P
	330	0.19	0.16	33.0	F	600	PCE3391CT-ND	3.60	5.94	13.78	50.88	PCE3391TR-ND	500	127.00	EEV-FK1A331P
	330	0.19	0.16	33.0	F	600	PCE3710CT-ND	3.95	6.51	15.11	55.80	PCE3710TR-ND	500	139.50	EEV-FK1A331GP
	470	0.19	0.16	47.0	F	600	PCE3392CT-ND	3.60	5.94	13.78	50.88	PCE3392TR-ND	500	127.00	EEV-FK1A471P
	470	0.19	0.16	47.0	F	600	PCE3711CT-ND	3.95	6.51	15.11	55.80	PCE3711TR-ND	500	139.50	EEV-FK1A471GP
	680	0.49	0.016	68.0	G	600	PCE3510CT-ND	3.60	5.94	13.78	50.88	PCE3510TR-ND	500	127.00	EEV-FK1A681P
	1000	0.19	0.08	100.0	G	850	PCE3393CT-ND	4.22	6.95	16.14	59.61	PCE3393TR-ND	500	149.00	EEV-FK1A102P
	1000	0.19	0.08	100.0	G	850	PCE3709CT-ND	4.63	7.63	17.71	65.40	PCE3709TR-ND	500	163.50	EEV-FK1A102GP
16	10	0.16	1.35	3.0	B	90	PCE3394CT-ND	1.21	1.99	4.62	17.07	PCE3394TR-ND	2,000	85.00/M	EEV-FK1C100R
	22	0.16	1.35	3.5	B	90	PCE3395CT-ND	1.21	1.99	4.62	17.07	PCE3395TR-ND	2,000	85.00/M	EEV-FK1C220UR
	22	0.16	0.70	3.5	C	160	PCE3396CT-ND	1.44	2.37	5.51	20.34	PCE3396TR-ND	1,000	102.00	EEV-FK1C220R
	47	0.16	0.70	7.5	C	160	PCE3397CT-ND	1.44	2.37	5.51	20.34	PCE3397TR-ND	1,000	102.00	EEV-FK1C470UR
	47	0.16	0.36	7.5	D	240	PCE3398CT-ND	1.70	2.80	6.50	24.00	PCE3398TR-ND	1,000	120.00	EEV-FK1C470P
	68	0.16	0.36	10.9	D	240	PCE3511CT-ND	1.70	2.80	6.50	24.00	PCE3511TR-ND	1,000	120.00	EEV-FK1C680P
	100	0.16	0.36	16.0	D	240	PCE3399CT-ND	1.70	2.80	6.50	24.00	PCE3399TR-ND	1,000	120.00	EEV-FK1C101P
	150	0.16	0.34	24.0	D8	280	PCE3512CT-ND	2.32	3.82	8.86	32.70	PCE3512TR-ND	900	147.60	EEV-FK1C151XP
	220	0.16	0.34	35.2	D8	280	PCE3513CT-ND	2.32	3.82	8.86	32.70	PCE3513TR-ND	900	147.60	EEV-FK1C221XP
	220	0.16	0.26	35.2	E	300	PCE3400CT-ND	2.78	4.58	10.63	39.24	PCE3400TR-ND	1,000	196.00	EEV-FK1C221P
	330	0.16	0.16	52.8	F	600	PCE3401CT-ND	3.60	5.94	13.78	50.88	PCE3401TR-ND	500	127.00	EEV-FK1C331P
	330	0.16	0.16	52.8	F	600	PCE3712CT-ND	3.95	6.51	15.11	55.80	PCE3712TR-ND	500	139.50	EEV-FK1C331GP
	470	0.16	0.16	75.2	F	600	PCE3402CT-ND	3.60	5.94	13.78	50.88	PCE3402TR-ND	500	127.00	EEV-FK1C471P
	470	0.16	0.16	75.2	F	600	PCE3713CT-ND	3.95	6.51	15.11	55.80	PCE3713TR-ND	500	139.50	EEV-FK1C471GP
	680	0.16	0.08	108.8	G	850	PCE3501CT-ND	4.22	6.95	16.14	59.61	PCE3501TR-ND	500	149.00	EEV-FK1C681P
	680	0.16	0.08	108.8	G	850	PCE3714CT-ND	4.63	7.63	17.71	65.40	PCE3714TR-ND	500	163.50	EEV-FK1C681GP
25	10	0.14	1.35	3.0	B	90	PCE3403CT-ND	1.21	1.99	4.62	17.07	PCE3403TR-ND	2,000	85.00/M	EEV-FK1E100R
	22	0.14	0.70	5.5	C	160	PCE3404CT-ND	1.44	2.37	5.51	20.34	PCE3404TR-ND	1,000	102.00	EEV-FK1E220R
	33	0.14	0.70	8.3	C	160	PCE3405CT-ND	1.44	2.37	5.51	20.34	PCE3405TR-ND	1,000	102.00	EEV-FK1E330UR
	33	0.14	0.36	8.3	D	240	PCE3406CT-ND	1.70	2.80	6.50	24.00	PCE3406TR-ND	1,000	120.00	EEV-FK1E330P
	47	0.14	0.36	11.8	D	240	PCE3407CT-ND	1.70	2.80	6.50	24.00	PCE3407TR-ND	1,000	120.00	EEV-FK1E470P
	68	0.14	0.36	17.0	D	240	PCE3514CT-ND	1.70	2.80	6.50	24.00	PCE3514TR-ND	1,000	120.00	EEV-FK1E680P
	100	0.14	0.34	25.0	D8	280	PCE3515CT-ND	2.32	3.82	8.86	32.70	PCE3515TR-ND	900	147.60	EEV-FK1E101XP
	100	0.14	0.26	25.0	E	300	PCE3408CT-ND	2.78	4.58	10.63	39.24	PCE3408TR-ND	1,000	196.00	EEV-FK1E101P
	150	0.14	0.16	37.5	F	600	PCE3516CT-ND	3.60	5.94	13.78	50.88	PCE3516TR-ND	500	127.00	EEV-FK1E151P
	220	0.14	0.16	55.0	F	600	PCE3409CT-ND	3.60	5.94	13.78	50.88	PCE3409TR-ND	500	127.00	EEV-FK1E221P
	220	0.14	0.16	55.0	F	600	PCE3715CT-ND	3.95	6.51	15.11	55.80	PCE3715TR-ND	500	139.50	EEV-FK1E221GP
	330	0.14	0.16	82.5	F	600	PCE3410CT-ND	3.60	5.94	13.78	50.88	PCE3410TR-ND	500	127.00	EEV-FK1E331P
	330	0.14	0.16	82.5	F	600	PCE3716CT-ND	3.95	6.51	15.11	55.80	PCE3716TR-ND	500	139.50	EEV-FK1E331GP
	470	0.14	0.08	117.5	G	850	PCE3411CT-ND	4.22	6.95	16.14	59.61	PCE3411TR-ND	500	149.00	EEV-FK1E471P
	470	0.14	0.08	117.5	G	850	PCE3717CT-ND	4.63	7.63	17.71	65.40	PCE3717TR-ND	500	163.50	EEV-FK1E471GP
35	4.7	0.12	1.35	3.0	B	90	PCE3412CT-ND	1.21	1.99	4.62	17.07	PCE3412TR-ND	2,000	85.00/M	EEV-FK1V4R7R
	10	0.12	1.35	3.5	B	90	PCE3413CT-ND	1.21	1.99	4.62	17.07	PCE3413TR-ND	2,000	85.00/M	EEV-FK1V100UR
	10	0.12	0.70	3.5	C	160	PCE3414CT-ND	1.44	2.37	5.51	20.34	PCE3414TR-ND	1,000	102.00	EEV-FK1V100R
	22	0.12	0.70	7.7	C	160	PCE3415CT-ND	1.44	2.37	5.51	20.34	PCE3415TR-ND	1,000	102.00	EEV-FK1V220R
	33	0.12	0.36	11.6	D	240	PCE3416CT-ND	1.70	2.80	6.50	24.00	PCE3416TR-ND	1,000	120.00	EEV-FK1V330P
	47	0.12	0.36	16.5	D	240	PCE3417CT-ND	1.70	2.80	6.50	24.00	PCE3417TR-ND	1,000	120.00	EEV-FK1V470P
	68	0.12	0.34	23.8	D8	280	PCE3517CT-ND	2.32	3.82	8.86	32.70	PCE3517TR-ND	900	147.60	EEV-FK1V680XP
	100	0.12	0.34	35.0	D8	280	PCE3518CT-ND	2.32	3.82	8.86	32.70	PCE3518TR-ND	900	147.60	EEV-FK1V101XP
	100	0.12	0.16	35.0	F	600	PCE3418CT-ND	3.60	5.94	13.78	50.88	PCE3418TR-ND	500	127.00	EEV-FK1V101P
	100	0.12	0.16	35.0	F	600	PCE3720CT-ND	3.95	6.50	15.09	55.71	PCE3720TR-ND	500	139.50	EEV-FK1V101GP
	150	0.12	0.16	52.5	F	600	PCE3519CT-ND	3.60	5.94	13.78	50.88	PCE3519TR-ND	500	127.00	EEV-FK1V151P
	220	0.12	0.16	77.0	F	600	PCE3419CT-ND	3.60	5.94	13.78	50.88	PCE3419TR-ND	500	127.00	EEV-FK1V221P
	220	0.12	0.16	77.0	F	600	PCE3721CT-ND	3.95	6.51	15.11	55.80	PCE3721TR-ND	500	139.50	EEV-FK1V221GP
	330	0.12	0.08	115.5	G	850	PCE3420CT-ND	4.22	6.95	16.14	59.61	PCE3420TR-ND	500	149.00	EEV-FK1V331P
	330	0.12	0.08	115.5	G	850	PCE3722CT-ND	4.63	7.63	17.71	65.40	PCE3722TR-ND	500	163.50	EEV-FK1V331GP
50	4.7	0.10	2.90	3.0	B	60	PCE3467CT-ND	1.21	1.99	4.62	17.07	PCE3467TR-ND	2,000	85.00/M	EEV-FK1H4R7R
	10	0.10	1.52	5.0	C	85	PCE3468CT-ND	1.44	2.37	5.51	20.34	PCE3468TR-ND	1,000	102.00	EEV-FK1H100UR
	10	0.10	0.88	5.0	D	165	PCE3469CT-ND	1.70	2.80	6.50	24.00	PCE3469TR-ND	1,000	120.00	EEV-FK1H100P
	22	0.10	0.88	11.0	D	165	PCE3470CT-ND	1.70	2.80	6.50	24.00	PCE3470TR-ND	1,000	120.00	EEV-FK1H220P
	33	0.10	0.68	16.5	D8	195	PCE3520CT-ND	2.32	3.82	8.86	32.70	PCE3520TR-ND	900	147.60	EEV-FK1H330XP
	33	0.10	0.68	16.5	E	195	PCE3471CT-ND	2.78	4.59	10.64	39.30	PCE3471TR-ND	1,000	197.00	EEV-FK1H330P
	47	0.10	0.68	23.5	D8	195	PCE3521CT-ND	2.32	3.82	8.86	32.70	PCE3521TR-ND	900	147.60	EEV-FK1H470XP
	47	0.10	0.68	23.5	E	195	PCE3472CT-ND	2.78	4.59	10.64	39.30	PCE3472TR-ND	1,000	197.00	EEV-FK1H470P
	100	0.10	0.34	50.0	F	350	PCE3473CT-ND	3.60	5.94	13.78	50.88	PCE3473TR-ND	500	127.00	EEV-FK1H101P
	100	0.10	0.34	50.0	F	350	PCE3718CT-ND	3.95	6.51	15.11	55.80	PCE3718TR-ND	500	139.50	EEV-FK1H101GP
	150	0.10	0.18	75.0	G	670	PCE3522CT-ND	4.22	6.95	16.14	59.61	PCE3522TR-ND	500	149.00	EEV-FK1H151P
	220	0.10	0.18	110.0	G	670	PCE3474CT-ND	4.22	6.95	16.14	59.61	PCE3474TR-ND	500	149.00	EEV-FK1H221P
	220	0.10	0.18	110.0	G	670	PCE3719CT-ND	4.63	7.63	17.71	65.40	PCE3719TR-ND	500	163.50	EEV-FK1H221GP

(Continued)

Panasonic FK Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Imped-ance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Qty.	Pricing	
63	4.7	0.08	3.00	3.0	C	50	PCE3478CT-ND	1.52	2.50	5.79	21.39	PCE3478TR-ND	1,000	107.00	EEV-FK1J4R7R
	10	0.08	1.50	6.3	D	80	PCE3479CT-ND	1.79	2.94	6.83	25.20	PCE3479TR-ND	1,000	126.00	EEV-FK1J100P
	22	0.08	1.20	13.9	D8	120	PCE3524CT-ND	2.43	4.01	9.30	34.35	PCE3524TR-ND	900	154.80	EEV-FK1J220XP
	22	0.08	1.20	13.9	E	120	PCE3480CT-ND	2.92	4.81	11.17	41.25	PCE3480TR-ND	1,000	206.00	EEV-FK1J220P
	33	0.08	0.65	20.8	F	250	PCE3481CT-ND	3.78	6.23	14.47	53.43	PCE3481TR-ND	500	133.50	EEV-FK1J330P
	47	0.08	0.65	29.6	F	250	PCE3482CT-ND	3.78	6.23	14.47	53.43	PCE3482TR-ND	500	133.50	EEV-FK1J470P
	68	0.08	0.35	42.8	G	400	PCE3525CT-ND	4.43	7.30	16.96	62.61	PCE3525TR-ND	500	156.50	EEV-FK1J680P
	100	0.08	0.35	63.0	G	400	PCE3483CT-ND	4.43	7.30	16.96	62.61	PCE3483TR-ND	500	156.50	EEV-FK1J101P
80	3.3	0.08	5.00	3.0	C	25	PCE3487CT-ND	1.52	2.50	5.79	21.39	PCE3487TR-ND	1,000	107.00	EEV-FK1K3R3R
	4.7	0.08	3.00	3.8	D	40	PCE3488CT-ND	1.79	2.94	6.83	25.20	PCE3488TR-ND	1,000	126.00	EEV-FK1K4R7P
	10	0.08	2.40	8.0	D8	60	PCE3527CT-ND	2.43	4.01	9.30	34.35	PCE3527TR-ND	900	154.80	EEV-FK1K100XP
	10	0.08	2.40	8.0	E	60	PCE3489CT-ND	2.92	4.81	11.17	41.25	PCE3489TR-ND	1,000	206.00	EEV-FK1K100P
	22	0.08	1.30	17.6	F	130	PCE3490CT-ND	3.78	6.23	14.47	53.43	PCE3490TR-ND	500	133.50	EEV-FK1K220P
	33	0.08	1.30	26.4	F	130	PCE3491CT-ND	3.78	6.23	14.47	53.43	PCE3491TR-ND	500	133.50	EEV-FK1K330P
	47	0.08	0.70	37.6	G	200	PCE3492CT-ND	4.43	7.30	16.96	62.61	PCE3492TR-ND	500	156.50	EEV-FK1K470P
100	22	0.07	1.30	22.0	F	130	PCE3502CT-ND	3.73	6.15	14.28	52.71	PCE3502TR-ND	500	132.00	EEV-FK2A220P
	33	0.07	0.70	33.0	G	200	PCE3503CT-ND	4.34	7.15	16.61	61.32	PCE3503TR-ND	500	153.50	EEV-FK2A330

FP Series Aluminum Electrolytic Capacitors, Surface Mount Type — High Temperature Reflow (260°C)

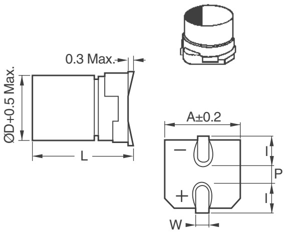

Specifications: • Operating Temperature Range: -55°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3 (µA) whichever is greater after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

Soldering: Reflow (I.R or I.R + Heated Air. VPS is not allowed)

Can Size - mm (Size Code)	Peak Temperature	Duration (Temp. ≥255°C)	Duration (Temp. ≥230°C)	Reflow Frequency
ø4 ~ ø6.3, ø8 x 10.2 (B, C, D, D8, F)	260°C	5 seconds	60 seconds	2‡
ø8 x 6.2, ø10 x 10.2 (E, G)	260°C	5 seconds	60 seconds	1

‡ Capacitor must return to room temperature before the second reflow

Following Specified Values:

Impedance 120Hz	Rated Working Voltage				
	6.3V	10V	16V	25V	35V
-25°C / 20°C	2	2	2	2	2
-40°C / 20°C	3	3	3	3	3
-55°C / 20°C	4	4	4	3	3

Size Code	Dimensions (mm)					
	øD	L	A	I	W	P
B	4.0	5.8	4.3	1.8	0.65±0.1	1.0
C	5.0	5.8	5.3	2.2	0.65±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	Imped-ance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Current 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Qty.	Pricing	
6.3	22	0.26	0.85	3.0	B	160	PCE4510CT-ND	1.33	2.20	5.10	18.84	PCE4510TR-ND	2,000	94.00/M	EEE-FP0J220AR
	47	0.26	0.36	3.0	C	240	PCE4511CT-ND	1.59	2.62	6.08	22.44	PCE4511TR-ND	1,000	112.00	EEE-FP0J470AR
	47	0.26	0.85	3.0	B	160	PCE4512CT-ND	1.40	2.31	5.36	19.80	PCE4512TR-ND	2,000	99.00/M	EEE-FPJ470UAR
	100	0.26	0.26	6.3	D	300	PCE4513CT-ND	1.88	3.09	7.17	26.49	PCE4513TR-ND	1,000	132.00	EEE-FP0J101AP
	100	0.26	0.36	6.3	C	240	PCE4514CT-ND	1.68	2.76	6.41	23.67	PCE4514TR-ND	1,000	118.00	EEE-FPJ101UAR
	220	0.26	0.26	13.8	D	300	PCE4515CT-ND	1.88	3.09	7.17	26.49	PCE4515TR-ND	1,000	132.00	EEE-FP0J221AP
	330	0.26	0.18	20.7	E	500	PCE4516CT-ND	3.07	5.05	11.73	43.32	PCE4516TR-ND	1,000	217.00	EEE-FP0J331AP
	330	0.26	0.16	20.7	D8	600	PCE4517CT-ND	2.56	4.21	9.78	36.12	PCE4517TR-ND	900	162.90	EEE-FPJ331XAP
	470	0.26	0.08	29.6	F	850	PCE4518CT-ND	3.98	6.55	15.21	56.16	PCE4518TR-ND	500	140.50	EEE-FP0J471AP
	1000	0.26	0.08	63.0	F	850	PCE4430CT-ND	3.95	6.51	15.11	55.80	PCE4430TR-ND	500	139.50	EEE-FP0J102AP
	1500	0.26	0.06	94.5	G	1190	PCE4431CT-ND	4.63	7.63	17.70	65.37	PCE4431TR-ND	500	163.50	EEE-FP0J152AP
	1800	0.26	0.08	113.4	G	850	PCE4432CT-ND	5.10	8.39	19.48	71.94	PCE4432TR-ND	500	180.00	EEE-FPJ182UAP
10	22	0.19	0.85	3.0	B	160	PCE4519CT-ND	1.33	2.20	5.10	18.84	PCE4519TR-ND	2,000	94.00/M	EEE-FP1A220AR
	33	0.19	0.36	3.3	C	240	PCE4520CT-ND	1.59	2.62	6.08	22.44	PCE4520TR-ND	1,000	112.00	EEE-FP1A330AR
	33	0.19	0.85	3.3	B	160	PCE4521CT-ND	1.40	2.31	5.36	19.80	PCE4521TR-ND	2,000	99.00/M	EEE-FPA330UAR
	150	0.19	0.26	15.0	D	300	PCE4522CT-ND	1.88	3.09	7.17	26.49	PCE4522TR-ND	1,000	132.00	EEE-FP1A151AP
	220	0.19	0.18	22.0	E	500	PCE4523CT-ND	3.07	5.05	11.73	43.32	PCE4523TR-ND	1,000	217.00	EEE-FP1A221AP
	220	0.19	0.16	22.0	D8	600	PCE4524CT-ND	2.56	4.21	9.78	36.12	PCE4524TR-ND	900	162.90	EEE-FPA221XAP
	330	0.19	0.08	33.0	F	850	PCE4525CT-ND	3.98	6.55	15.21	56.16	PCE4525TR-ND	500	140.50	EEE-FP1A331AP
	470	0.19	0.08	47.0	F	850	PCE4526CT-ND	3.98	6.55	15.21	56.16	PCE4526TR-ND	500	140.50	EEE-FP1A471AP
	680	0.19	0.08	68.0	F	850	PCE4433CT-ND	3.95	6.51	15.11	55.80	PCE4433TR-ND	500	139.50	EEE-FP1A681AP
	1000	0.19	0.06	100.0	G	1190	PCE4434CT-ND	4.63	7.63	17.70	65.37	PCE4434TR-ND	500	163.50	EEE-FP1A102AP
	1200	0.19	0.08	120.0	G	850	PCE4435CT-ND	5.10	8.39	19.48	71.94	PCE4435TR-ND	500	180.00	EEE-FPA122UAP
16	10	0.16	0.85	3.0	B	160	PCE4527CT-ND	1.33	2.20	5.10	18.84	PCE4527TR-ND	2,000	94.00/M	EEE-FP1C100AR
	22	0.16	0.36	3.5	C	240	PCE4528CT-ND	1.59	2.62	6.08	22.44	PCE4528TR-ND	1,000	112.00	EEE-FP1C220AR
	22	0.16	0.85	3.5	B	160	PCE4529CT-ND	1.40	2.31	5.36	19.80	PCE4529TR-ND	2,000	99.00/M	EEE-FPC220UAR
	47	0.16	0.26	7.5	D	300	PCE4530CT-ND	1.88	3.09	7.17	26.49	PCE4530TR-ND	1,000	132.00	EEE-FP1C470AP
	47	0.16	0.36	7.5	C	240	PCE4531CT-ND	1.68	2.76	6.41	23.67	PCE4531TR-ND	1,000	118.00	EEE-FPC470UAR
	68	0.16	0.26	10.8	D	300	PCE4532CT-ND	1.88	3.09	7.17	26.49	PCE4532TR-ND	1,000	132.00	EEE-FP1C680AP
	100	0.16	0.26	16.0	D	300	PCE4533CT-ND	1.88	3.09	7.17	26.49	PCE4533TR-ND	1,000	132.00	EEE-FP1C101AP
	100	0.16	0.16	16.0	D8	600	PCE4534CT-ND	2.56	4.21	9.78	36.12	PCE4534TR-ND	900	162.90	EEE-FPC101XAP
	150	0.16	0.16	24.0	D8	600	PCE4535CT-ND	2.56	4.21	9.78	36.12	PCE4535TR-ND	900	162.90	EEE-FPC151XAP
	220	0.16	0.18	35.2	E	500	PCE4536CT-ND	3.07	5.05	11.73	43.32	PCE4536TR-ND	1,000	217.00	EEE-FP1C221AP
	220	0.16	0.16	35.2	D8	600	PCE4537CT-ND	2.56	4.21	9.78	36.12	PCE4537TR-ND	900	162.90	EEE-FPC221XAP
	330	0.16	0.08	52.8	F	850	PCE4538CT-ND	3.98	6.55	15.21	56.16	PCE4538TR-ND	500	140.50	EEE-FP1C331AP
	470	0.16	0.08	75.2	F	850	PCE4436CT-ND	3.95	6.51	15.11	55.80	PCE4436TR-ND	500	139.50	EEE-FP1C471AP
	680	0.16	0.06	108.8	G	1190	PCE4437CT-ND	4.63	7.63	17.70	65.37	PCE4437TR-ND	500	163.50	EEE-FP1C681AP
	820	0.16	0.08	131.2	G	850	PCE4438CT-ND	5.10	8.39	19.48	71.94	PCE4438TR-ND	500	180.00	EEE-FPC821UAP
25	10	0.14	0.85	3.0	B	160	PCE4539CT-ND	1.33	2.20	5.10	18.84	PCE4539TR-ND	2,000	94.00/M	EEE-FP1E100AR
	22	0.14	0.36	5.5	C	240	PCE4540CT-ND	1.59	2.62	6.08	22.44	PCE4540TR-ND	1,000	112.00	EEE-FP1E220AR
	33	0.14	0.26	8.2	D	300	PCE4541CT-ND	1.88	3.09	7.17	26.49	PCE4541TR-ND	1,000	132.00	EEE-FP1E330AP
	33	0.14	0.36	8.2	C	240	PCE4542CT-ND	1.68	2.76	6.41	23.67	PCE4542TR-ND	1,000	118.00	EEE-FPE330UAR
	47	0.14	0.26	11.7	D	300	PCE4543CT-ND	1.88	3.09	7.17	26.49	PCE4543TR-ND	1,000	132.00	EEE-FP1E470AP
	68	0.14	0.26	17.0	D	300	PCE4544CT-ND	1.88	3.09	7.17	26.49	PCE4544TR-ND	1,000	132.00	EEE-FP1E680AP
	100	0.14	0.18	25.0	E	500	PCE4545CT-ND	3.07	5.05	11.73	43.32	PCE4545TR-ND	1,000	217.00	EEE-FP1E101AP
	100	0.14	0.16	25.0	D8	600	PCE4546CT-ND	2.56	4.21	9.78	36.12	PCE4546TR-ND	900	162.90	EEE-FPE101XAP
	150	0.14	0.08	37.5	F	850	PCE4547CT-ND	3.98	6.55	15.21	56.16	PCE4547TR-ND	500	140.50	EEE-FP1E151AP
	220	0.14	0.08	55.0	F	850	PCE4548CT-ND	3.98	6.55	15.21	56.16	PCE4548TR-ND	500	140.50	EEE-FP1E221AP
	470	0.14	0.06	117.5	G	1190	PCE4440CT-ND	4.63	7.63	17.70	65.37	PCE4440TR-ND	500	163.50	EEE-FP1E471AP
	560	0.14	0.08	140.0	G	850	PCE4441CT-ND	5.10	8.39	19.48	71.94	PCE4441TR-ND	500	180.00	EEE-FPE561UAP
35	10	0.12	0.85	3.5	B	160	PCE4549CT-ND	1.40	2.31	5.36	19.80	PCE4549TR-ND	2,000	99.00/M	EEE-FPV100UAR
	22	0.12	0.36	7.7	C	240	PCE4550CT-ND	1.59	2.62	6.08	22.44	PCE4550TR-ND	1,000	112.00	EEE-FP1V220AR
	33	0.12	0.26	11.5	D	300	PCE4551CT-ND	1.88	3.09	7.17	26.49	PCE4551TR-ND	1,000	132.00	EEE-FP1V330AP
	47	0.12	0.26	16.4	D	300	PCE4552CT-ND	1.88	3.09	7.17	26.49	PCE4552TR-ND	1,000	132.00	EEE-FP1V470AP
	68	0.12	0.16	16.4	D8	600	PCE4553CT-ND	3.07	5.05	11.73	43.32	PCE4553TR-ND	900	195.30	EEE-FPV680XAP
	100	0.12	0.16	35.0	D8	600	PCE4554CT-ND	3.07	5.05	11.73	43.32	PCE4554TR-ND	900	195.30	EEE-FPV101XAP
	100	0.12	0.08	35.0	F	850	PCE4442CT-ND	3.95	6.51	15.11	55.80	PCE4442TR-ND	500	139.50	EEE-FP1V101AP
	150	0.12	0.08	52.5	F	850	PCE4443CT-ND	3.95	6.51	15.11	55.80	PCE4443TR-ND	500	139.50	EEE-FP1V151AP
	220	0.12	0.08	77.0	F	850	PCE4444CT-ND	3.95	6.51	15.11	55.80	PCE4444TR-ND	500	139.50	EEE-FP1V221AP
	330	0.12	0.06	115.5	G	1190	PCE4445CT-ND	4.63	7.63	17.70	65.37	PCE4445TR-ND	500	163.50	EEE-FP1V331AP
	390	0.12	0.08	136.5	G	850	PCE4446CT-ND	5.10	8.39	19.48	71.94	PCE4446TR-ND	500	180.00	EEE-FPV391UAP

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® EB Series Aluminum Electrolytic Capacitors, Surface Mount Type

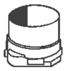

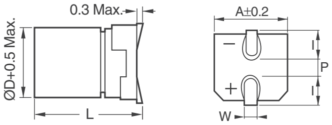

Features: • Long Life: 3000-5000H @ 105°C • High Voltage • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • Operating Temperature Range: -25°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.06CV +10(µA) after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

Soldering: • Reflow: 230°C for 5 seconds

Following specified values:

Impedance 120Hz	Working Voltage					
	160V	200V	250V	350V	400V	450V
-25°C/+20°C	2	2	3	5	6	6

Size Code	Dimensions (mm)					
	D	L	A	l	W	P
G13	10	13.5	10.3	3.5	0.90±0.2	4.6
G17	10	16.5	10.3	3.5	0.90±0.2	4.6
H16	12.5	16.5	13.5	4.7	0.90±0.3	4.4
J16	16	16.5	17.0	5.5	1.2±0.3	6.7
J21	16	21.5	17.0	5.5	1.2±0.3	6.7
K16	18	16.5	19.0	6.5	1.2±0.3	6.7
K21	18	21.5	19.0	6.5	1.2±0.3	6.7

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
EB Long Life, High Ripple Series: –25°C ~ 105°C (3000 – 5000 Hour Life)													
160	10	0.15	106.0	G13	70	PCE3421CT-ND	1.13	.93	.87	PCE3421TR-ND	250	99.50	EEV-EB2C100Q
	33	0.15	326.8	H16	470	PCE3422CT-ND	1.86	1.53	1.42	PCE3422TR-ND	150	98.10	EEV-EB2C330SQ
	47	0.15	461.2	J16	600	PCE3579CT-ND	2.32	1.91	1.78	PCE3579TR-ND	125	102.25	EEV-EB2C470SM
	68	0.15	662.8	J21	750	PCE3580CT-ND	2.74	2.26	2.10	PCE3580TR-ND	75	72.38	EEV-EB2C680M
	68	0.15	662.8	K16	750	PCE3581CT-ND	2.74	2.26	2.10	PCE3581TR-ND	125	120.63	EEV-EB2C680SM
	100	0.15	970.0	K21	1060	PCE3578CT-ND	3.26	2.69	2.49	PCE3578TR-ND	75	86.18	EEV-EB2C101M
200	22	0.15	274.0	H16	470	PCE3427CT-ND	1.86	1.53	1.42	PCE3427TR-ND	150	98.10	EEV-EB2D220SQ
	33	0.15	406.0	J16	600	PCE3583CT-ND	2.32	1.91	1.78	PCE3583TR-ND	125	102.25	EEV-EB2D330SM
	47	0.15	574.0	K16	600	PCE3584CT-ND	2.74	2.26	2.10	PCE3584TR-ND	125	120.63	EEV-EB2D470SM
	68	0.15	826.0	J21	750	PCE3585CT-ND	2.74	2.26	2.10	PCE3585TR-ND	75	72.38	EEV-EB2D680M
	100	0.15	1210.0	K21	1060	PCE3582CT-ND	3.26	2.69	2.49	PCE3582TR-ND	75	86.18	EEV-EB2D101M
250	10	0.15	160.0	G17	88	PCE3432CT-ND	1.30	1.07	.99	PCE3432TR-ND	200	91.40	EEV-EB2E100Q
	22	0.15	340.0	J16	560	PCE3586CT-ND	2.32	1.91	1.78	PCE3586TR-ND	125	102.25	EEV-EB2E220SM
	33	0.15	505.0	K16	560	PCE3587CT-ND	2.74	2.26	2.10	PCE3587TR-ND	125	120.63	EEV-EB2E330SM
	47	0.15	715.0	J21	710	PCE3588CT-ND	2.74	2.26	2.10	PCE3588TR-ND	75	72.38	EEV-EB2E470M
	68	0.15	1030.0	K21	990	PCE3589CT-ND	3.26	2.69	2.49	PCE3589TR-ND	75	86.18	EEV-EB2E680M
350	10	0.20	220.0	J16	270	PCE3593CT-ND	2.32	1.91	1.78	PCE3593TR-ND	125	102.25	EEV-EB2V100SM
	22	0.20	472.0	K16	350	PCE3594CT-ND	2.74	2.26	2.10	PCE3594TR-ND	125	120.63	EEV-EB2V220SM
	33	0.20	703.0	J21	480	PCE3595CT-ND	2.74	2.26	2.10	PCE3595TR-ND	75	72.38	EEV-EB2V330M
	47	0.20	997.0	K21	670	PCE3596CT-ND	3.26	2.69	2.49	PCE3596TR-ND	75	86.18	EEV-EB2V470M
400	3.3	0.24	89.2	G13	40	PCE3441CT-ND	1.13	.93	.87	PCE3441TR-ND	250	99.50	EEV-EB2G3R3Q
	4.7	0.24	122.8	G17	50	PCE3442CT-ND	1.30	1.07	.99	PCE3442TR-ND	200	91.40	EEV-EB2G4R7Q
	10	0.24	250.0	J16	250	PCE3590CT-ND	2.32	1.91	1.78	PCE3590TR-ND	125	102.25	EEV-EB2G100SM
	22	0.24	538.0	J21	410	PCE3591CT-ND	2.74	2.26	2.10	PCE3591TR-ND	75	72.38	EEV-EB2G220M
	33	0.24	802.0	K21	600	PCE3592CT-ND	3.26	2.69	2.49	PCE3592TR-ND	75	86.18	EEV-EB2G330M
450	2.2	0.24	69.4	G13	29	PCE3446CT-ND	1.13	.93	.87	PCE3446TR-ND	250	99.50	EEV-EB2W2R2Q
	3.3	0.24	99.1	G17	41	PCE3447CT-ND	1.30	1.07	.99	PCE3447TR-ND	200	88.20	EEV-EB2W3R3Q
	4.7	0.24	136.9	H16	49	PCE3448CT-ND	1.86	1.53	1.42	PCE3448TR-ND	150	98.10	EEV-EB2W4R7SQ
	10	0.24	280.0	K16	310	PCE3597CT-ND	2.74	2.26	2.10	PCE3597TR-ND	125	120.63	EEV-EB2W100SM
	22	0.24	604.0	K21	560	PCE3598CT-ND	3.26	2.69	2.49	PCE3598TR-ND	75	86.18	EEV-EB2W220M

Panasonic® TA Series Aluminum Electrolytic Capacitors, Surface Mount Type

Features: • High Temperature: 125°C • Automotive Applications • Life Time: 1000H @ 125°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • Operating Temperature Range: -40°C ~ 125°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

Size Code	Dimensions (mm)					
	D	L	A	l	W	P
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

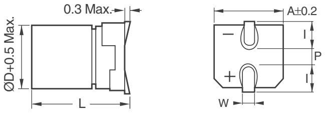

Following specified values:

Impedance 120Hz	Working Voltage				
	10V	16V	25V	35V	50V
-25°C/+20°C	8	8	4	3	3
-40°C/+20°C	14	12	10	8	8

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
TA Automotive Series: –40°C ~ 125°C (1000 Hour Life)														
10	100	0.32	10.0	E	62	PCE3143CT-ND	.86	.71	.66	.61	PCE3143TR-ND	1,000	303.00	EEV-TA1A101P
	220	0.32	22.0	F	93	PCE3144CT-ND	1.11	.92	.85	.79	PCE3144TR-ND	500	195.00	EEV-TA1A221P
	330	0.32	33.0	G	118	PCE3145CT-ND	1.31	1.08	1.00	.92	PCE3145TR-ND	500	229.50	EEV-TA1A331P
16	100	0.24	16.0	F	89	PCE3146CT-ND	1.11	.92	.85	.79	PCE3146TR-ND	500	195.00	EEV-TA1C101P
	220	0.24	35.2	G	113	PCE3147CT-ND	1.31	1.08	1.00	.92	PCE3147TR-ND	500	229.50	EEV-TA1C221P
25	47	0.21	11.8	E	56	PCE3148CT-ND	.86	.71	.66	.61	PCE3148TR-ND	1,000	303.00	EEV-TA1E470P
	100	0.21	25.0	F	84	PCE3149CT-ND	1.11	.92	.85	.79	PCE3149TR-ND	500	195.00	EEV-TA1E101P
35	33	0.18	11.6	E	53	PCE3150CT-ND	.86	.71	.66	.61	PCE3150TR-ND	1,000	303.00	EEV-TA1V330P
	47	0.18	16.5	F	79	PCE3151CT-ND	1.11	.92	.85	.79	PCE3151TR-ND	500	195.00	EEV-TA1V470P
	100	0.18	3.5	G	101	PCE3152CT-ND	1.31	1.08	1.00	.92	PCE3152TR-ND	500	229.50	EEV-TA1V101P
50	10	0.18	5.0	E	25	PCE3153CT-ND	.86	.71	.66	.61	PCE3153TR-ND	1,000	303.00	EEV-TA1H100P
	22	0.18	11.0	E	50	PCE3154CT-ND	.86	.71	.66	.61	PCE3154TR-ND	1,000	303.00	EEV-TA1H220P
	33	0.18	16.5	F	74	PCE3155CT-ND	1.11	.92	.85	.79	PCE3155TR-ND	500	195.00	EEV-TA1H330P
	47	0.18	23.5	G	94	PCE3156CT-ND	1.31	1.08	1.00	.92	PCE3156TR-ND	500	229.50	EEV-TA1H470P

Panasonic® TG Series Aluminum Electrolytic Capacitors, Surface Mount Type

RoHS COMPLIANT

Features: • Life Time: 1000-2000H @ 125°C • Automotive Applications • Surface Mount Type • Miniaturization (40% less than TA Series) • Low ESR (Low Temperature) **Specifications:** • Operating Temperature Range: -40°C ~ 125°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz) • Soldering Reflow: 8-10mm case, 235°C for 5 seconds; 12.5-18mm case, 230°C for 5 seconds

Following specified values:

Impedance 120Hz	Working Voltage 10V	16V	25V	35V	50V	63V	80V	100V
-25°C/20°C	3	2	2	2	2	2	2	2
-40°C/20°C	6	4	4	3	3	3	3	3

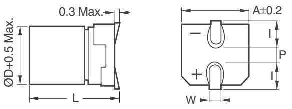

Size Code	Dimensions (mm) D	L	A	I	W	P
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6
H13	12.5	13.5	13.5	4.7	0.90±0.3	4.4
J16	16.0	16.5	17.0	5.5	1.20±0.3	6.7
K16	18.0	16.5	19.0	6.7	1.20±0.3	6.7

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	ESR (100kHz) (20°C) Ω	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mArms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
TG Series: –40°C ~ 125°C (1000 – 2000 Hour Life)															
10	100	0.30	1.0	10.0	E	100	PCE4034CT-ND	.67	.55	.51	.47	PCE4034TR-ND	1,000	235.00	EEE-TG1A101P
	220	0.30	1.0	22.0	E	100	PCE4038CT-ND	.69	.57	.53	.49	PCE4038TR-ND	1,000	243.00	EEE-TG1A221UP
	220	0.30	0.5	22.0	E	197	PCE4037CT-ND	.84	.69	.64	.59	PCE4037TR-ND	500	147.50	EEE-TG1A221P
	330	0.30	0.5	33.0	F	197	PCE4041CT-ND	.86	.71	.66	.61	PCE4041TR-ND	500	151.50	EEE-TG1A331UP
	330	0.30	0.3	33.0	G	270	PCE4040CT-ND	1.00	.83	.77	.71	PCE4040TR-ND	500	176.50	EEE-TG1A331P
	470	0.30	0.3	47.0	G	270	PCE4044CT-ND	1.03	.85	.79	.73	PCE4044TR-ND	500	180.50	EEE-TG1A471UP
	1000	0.30	0.12	100.0	H13	800	PCE3608CT-ND	1.85	1.52	1.42	1.31	PCE3608TR-ND	200	125.80	EEV-TG1A102Q
	1500	0.30	0.12	150.0	H13	800	PCE3609CT-ND	1.90	1.56	1.45	1.34	PCE3609TR-ND	200	133.60	EEV-TG1A152UQ
	2200	0.32	0.08	220.0	J16	1100	PCE3612CT-ND	3.02	2.49	2.31	—	PCE3612TR-ND	125	133.00	EEV-TG1A222M
	3300	0.34	0.075	330.0	K16	1300	PCE3615CT-ND	3.58	2.95	2.74	—	PCE3615TR-ND	125	157.75	EEV-TG1A332M
	3300	0.34	0.08	330.0	J16	1100	PCE3616CT-ND	3.07	2.53	2.35	—	PCE3616TR-ND	125	135.25	EEV-TG1A332UM
	4700	0.36	0.075	470.0	K16	1300	PCE3618CT-ND	3.58	2.95	2.74	—	PCE3618TR-ND	125	157.75	EEV-TG1A472M
16	100	0.23	0.5	16.0	F	197	PCE4046CT-ND	.84	.69	.64	.59	PCE4046TR-ND	500	147.50	EEE-TG1C101P
	220	0.23	0.5	35.2	F	197	PCE4050CT-ND	.86	.71	.66	.61	PCE4050TR-ND	500	151.50	EEE-TG1C221UP
	220	0.23	0.3	35.2	G	270	PCE4049CT-ND	1.00	.83	.77	.71	PCE4049TR-ND	500	176.50	EEE-TG1C221P
	330	0.23	0.3	52.8	G	270	PCE4054CT-ND	1.03	.85	.79	.73	PCE4054TR-ND	500	180.50	EEE-TG1C331UP
	330	0.23	0.12	52.8	H13	800	PCE3626CT-ND	1.85	1.52	1.42	1.31	PCE3626TR-ND	200	125.80	EEV-TG1C331Q
	470	0.23	0.12	75.2	H13	800	PCE3629CT-ND	1.85	1.52	1.42	1.31	PCE3629TR-ND	200	130.20	EEV-TG1C471Q
	680	0.23	0.12	108.8	H13	800	PCE3630CT-ND	1.85	1.52	1.42	1.31	PCE3630TR-ND	200	125.80	EEV-TG1C681Q
	1000	0.23	0.08	160.0	J16	1100	PCE3620CT-ND	2.92	2.41	2.23	—	PCE3620TR-ND	125	128.63	EEV-TG1C102M
	1000	0.23	0.12	160.0	H13	800	PCE3621CT-ND	1.90	1.56	1.45	1.34	PCE3621TR-ND	200	133.60	EEV-TG1C102UQ
	2200	0.25	0.075	352.0	K16	1300	PCE3624CT-ND	3.48	2.87	2.66	—	PCE3624TR-ND	125	153.38	EEV-TG1C222M
	2200	0.25	0.08	352.0	J16	1100	PCE3625CT-ND	2.97	2.45	2.27	—	PCE3625TR-ND	125	130.88	EEV-TG1C222UM
	3300	0.27	0.075	528.0	K16	1300	PCE3628CT-ND	3.48	2.87	2.66	—	PCE3628TR-ND	125	153.38	EEV-TG1C332M
25	47	0.18	1.0	11.75	E	100	PCE4067CT-ND	.67	.55	.51	.47	PCE4067TR-ND	1,000	235.00	EEE-TG1E470P
	100	0.18	1.0	25.0	E	100	PCE4059CT-ND	.69	.57	.53	.49	PCE4059TR-ND	1,000	243.00	EEE-TG1E101UP
	100	0.18	0.5	25.0	F	197	PCE4058CT-ND	.84	.69	.64	.59	PCE4058TR-ND	500	147.50	EEE-TG1E101P
	220	0.18	0.5	55.0	F	197	PCE4063CT-ND	.86	.71	.66	.61	PCE4063TR-ND	500	151.50	EEE-TG1E221UP
	220	0.18	0.3	55.0	G	270	PCE4062CT-ND	1.00	.83	.77	.71	PCE4062TR-ND	500	176.50	EEE-TG1E221P
	330	0.18	0.3	82.5	G	270	PCE4066CT-ND	1.11	.91	.85	.78	PCE4066TR-ND	500	195.00	EEE-TG1E331UP
	330	0.18	0.12	82.5	H13	800	PCE3638CT-ND	1.85	1.52	1.42	1.31	PCE3638TR-ND	200	125.80	EEV-TG1E331Q
	470	0.18	0.12	117.5	H13	800	PCE3641CT-ND	1.85	1.52	1.42	1.31	PCE3641TR-ND	200	125.80	EEV-TG1E471Q
	680	0.18	0.08	170.0	J16	1100	PCE3642CT-ND	2.92	2.41	2.23	—	PCE3642TR-ND	125	128.63	EEV-TG1E681M
	680	0.18	0.12	170.0	H13	800	PCE3643CT-ND	1.90	1.56	1.45	1.34	PCE3643TR-ND	200	129.00	EEV-TG1E681UQ
	1000	0.18	0.075	250.0	K16	1300	PCE3633CT-ND	3.48	2.87	2.66	—	PCE3633TR-ND	125	153.38	EEV-TG1E102M
	1000	0.18	0.08	250.0	J16	1100	PCE3634CT-ND	2.97	2.45	2.27	—	PCE3634TR-ND	125	130.88	EEV-TG1E102UM
	2200	0.20	0.075	550.0	K16	1300	PCE3637CT-ND	3.48	2.87	2.66	—	PCE3637TR-ND	125	153.38	EEV-TG1E222M
35	33	0.16	1.0	11.55	E	100	PCE4113CT-ND	.67	.55	.51	.47	PCE4113TR-ND	1,000	235.00	EEE-TG1V330P
	47	0.16	1.0	16.45	E	100	PCE4116CT-ND	.69	.57	.53	.49	PCE4116TR-ND	1,000	243.00	EEE-TG1V470UP
	47	0.16	0.5	16.45	F	197	PCE4115CT-ND	.84	.69	.64	.59	PCE4115TR-ND	500	147.50	EEE-TG1V470P
	100	0.16	0.5	35.0	F	197	PCE4110CT-ND	.86	.71	.66	.61	PCE4110TR-ND	500	151.50	EEE-TG1V101UP
	100	0.16	0.3	35.0	G	270	PCE4109CT-ND	1.00	.83	.77	.71	PCE4109TR-ND	500	176.50	EEE-TG1V101P
	220	0.16	0.3	77.0	G	270	PCE4112CT-ND	1.03	.85	.79	.73	PCE4112TR-ND	500	180.50	EEE-TG1V221UP
	330	0.16	0.12	115.5	H13	800	PCE3687CT-ND	1.85	1.52	1.42	1.31	PCE3687TR-ND	1,000	564.00	EEV-TG1V331Q
	470	0.16	0.08	164.5	J16	1100	PCE3690CT-ND	2.92	2.41	2.23	—	PCE3690TR-ND	125	128.63	EEV-TG1V471M
	470	0.16	0.12	164.5	H13	800	PCE3691CT-ND	1.90	1.56	1.45	1.34	PCE3691TR-ND	200	129.00	EEV-TG1V471UQ
	680	0.16	0.075	238.0	K16	1300	PCE3692CT-ND	3.48	2.87	2.66	—	PCE3692TR-ND	125	153.38	EEV-TG1V681M
	680	0.16	0.08	238.0	J16	1100	PCE3693CT-ND	2.97	2.45	2.27	—	PCE3693TR-ND	125	130.88	EEV-TG1V681UM
	1000	0.16	0.075	350.0	K16	1300	PCE3684CT-ND	3.48	2.87	2.66	—	PCE3684TR-ND	125	153.38	EEV-TG1V102M
50	10	0.14	1.6	5.0	E	80	PCE4071CT-ND	.67	.55	.51	.47	PCE4071TR-ND	1,000	235.00	EEE-TG1H100P
	22	0.14	1.6	11.0	E	80	PCE4074CT-ND	.67	.55	.51	.47	PCE4074TR-ND	1,000	235.00	EEE-TG1H220P
	33	0.14	1.6	16.5	E	80	PCE4077CT-ND	.69	.57	.53	.49	PCE4077TR-ND	1,000	243.00	EEE-TG1H330UP
	33	0.14	0.75	16.5	F	133	PCE4076CT-ND	.84	.69	.64	.59	PCE4076TR-ND	500	147.50	EEE-TG1H330P
	47	0.14	0.75	23.5	F	133	PCE4080CT-ND	.86	.71	.66	.61	PCE4080TR-ND	500	151.50	EEE-TG1H470UP
	47	0.14	0.5	23.5	G	221	PCE4079CT-ND	1.00	.83	.77	.71	PCE4079TR-ND	500	176.50	EEE-TG1H470P
	100	0.14	0.5	50.0	G	221	PCE4072CT-ND	1.03	.85	.79	.73	PCE4072TR-ND	500	180.50	EEE-TG1H101UP
	220	0.14	0.23	110.0	H13	600	PCE3648CT-ND	1.85	1.52	1.42	1.31	PCE3648TR-ND	200	125.80	EEV-TG1H221Q
	330	0.14	0.23	165.0	H13	600	PCE3651CT-ND	1.85	1.52	1.42	1.31	PCE3651TR-ND	200	130.20	EEV-TG1H331Q
	470	0.14	0.15	235.0	J16	900	PCE3654CT-ND	2.92	2.41	2.23	—	PCE3654TR-ND	125	128.63	EEV-TG1H471M
	680	0.14	0.14	340.0	K16	950	PCE3655CT-ND	3.48	2.87	2.66	—	PCE3655TR-ND	125	153.38	EEV-TG1H681M
	680	0.14	0.15	340.0	J16	900	PCE3656CT-ND	2.97	2.45	2.27	—	PCE3656TR-ND	125	130.88	EEV-TG1H681UM
	1000	0.14	0.14	500.0	K16	950	PCE3646CT-ND	3.48	2.87	2.66	—	PCE3646TR-ND	125	153.38	EEV-TG1H102M
63	10	0.12	2.2	6.3	E	55	PCE4084CT-ND	.67	.55	.51	.47	PCE4084TR-ND	1,000	235.00	EEE-TG1J100P
	22	0.12	1.0	13.86	F	100	PCE4087CT-ND	.84	.69	.64	.59	PCE4087TR-ND	500	147.50	EEE-TG1J220P
	33	0.12	1.0	20.79	F	100	PCE4090CT-ND	.86	.71	.66	.61	PCE4090TR-ND	500	151.50	EEE-TG1J330UP
	33	0.12	0.8	20.79	G	150	PCE4089CT-ND	1.00	.83	.77	.71	PCE4089TR-ND	500	176.50	EEE-TG1J330P
	47	0.12	1.0	29.61	F	100	PCE4093CT-ND	.86	.71	.66	.61	PCE4093TR-ND	500	151.50	EEE-TG1J470UP
	47	0.12	0.8	29.61	G	150	PCE4092CT-ND	1.00	.83	.77	.71	PCE4092TR-ND	500	176.50	EEE-TG1J470P
	100	0.12	0.8	63.0	G	150	PCE4086CT-ND	1.03	.85	.79	.73	PCE4086TR-ND	500	180.50	EEE-TG1J101UP
	100	0.12	0.26	63.0	H13	350	PCE3658CT-ND	1.85	1.52	1.42	1.31	PCE3658TR-ND	200	130.20	EEV-TG1J101Q
	220	0.12	0.26	138.6	H13	350	PCE3661CT-ND	1.85	1.52	1.42	1.31	PCE3661TR-ND	200	125.80	EEV-TG1J221Q
	330	0.12	0.18	207.9	J16	500	PCE3664CT-ND	2.92	2.41	2.23	—	PCE3664TR-ND	125	128.63	EEV-TG1J331M
	470	0.12	0.18	296.1	J16	500	PCE3667CT-ND	2.92	2.41	2.23	—	PCE3667TR-ND	125	128.63	EEV-TG1J471M
80	10	0.12	1.3	8.0	F	70	PCE4095CT-ND	.84	.69	.64	.59	PCE4095TR-ND	500	147.50	EEE-TG1K100P
	22	0.12	1.3	17.6	F	70	PCE4099CT-ND	.86	.71	.66	.61	PCE4099TR-ND	500	151.50	EEE-TG1K220UP
	22	0.12	1.0	17.6	G	90	PCE4098CT-ND	1.00	.83	.77	.71	PCE4098TR-ND	500	176.50	EEE-TG1K220P
	33	0.12	1.3	26.4	F	70	PCE4103CT-ND	.86	.71	.66	.61	PCE4103TR-ND	500	151.50	EEE-TG1K330UP
	33	0.12	1.0	26.4	G	90	PCE4102CT-ND	1.00	.83	.77	.71	PCE4102TR-ND	500	176.50	EEE-TG1K330P
	47	0.12	1.0	37.6	G	90	PCE4107CT-ND	1.03	.85	.79	.73	PCE4107TR-ND	500	180.50	EEE-TG1K470UP
	47	0.12	0.42	37.6	H13	250	PCE3679CT-ND	1.85	1.52	1.42	1.31	PCE3679TR-ND	200	125.80	EEV-TG1K470Q
	100	0.12	0.3	80.0	J16	350	PCE3669CT-ND	2.92	2.41	2.23	—	PCE3669TR-ND	125	128.63	EEV-TG1K101M
	100	0.12	0.42	80.0	H13	250	PCE3670CT-ND	1.90	1.56	1.45	1.34	PCE3670TR-ND	200	129.00	EEV-TG1K101UQ
	220	0.12	0.28	176.0	K16	400	PCE3673CT-ND	3.48	2.87	2.66	—	PCE3673TR-ND	125	153.38	EEV-TG1K221M
	220	0.12	0.3	176.0	J16	350	PCE3674CT-ND	2.97	2.45	2.27	—	PCE3674TR-ND	125	130.88	EEV-TG1K221UM
	330	0.12	0.28	264.0	K16	400	PCE3677CT-ND	3.48	2.87	2.66	—	PCE3677TR-ND	125	153.38	EEV-TG1K331M
	330	0.12	0.3	264.0	J16	350	PCE3678CT-ND	2.97	2.45	2.27	—	PCE3678TR-ND	125	130.88	EEV-TG1K331UM
	470	0.12	0.28	376.0	K16	400	PCE3681CT-ND	3.48	2.87	2.66	—	PCE3681TR-ND	125	153.38	EEV-TG1K471M
100	10	0.1	1.3	10.0	F	70	PCE4121CT-ND	.84	.69	.64	.59	PCE4121TR-ND	500	147.50	EEE-TG2A100P
	22	0.1	1.3	22.0	F	70	PCE4124CT-ND	.86	.71	.66	.61	PCE4124TR-ND	500	151.50	EEE-TG2A220UP
	22	0.1	1.0	22.0	G	90	PCE4123CT-ND	1.00	.83	.77	.71	PCE4123TR-ND	500	176.50	EEE-TG2A220P
	33	0.1	1.0	33.0	G	90	PCE4126CT-ND	1.00	.83	.77	.71	PCE4126TR-ND	500	176.50	EEE-TG2A330P
	47	0.10	0.42	47.0	H13	250	PCE3701CT-ND	1.85	1.52	1.42	1.31	PCE3701TR-ND	200	125.80	EEV-TG2A470Q
	100	0.10	0.3	100.0	J16	350	PCE3695CT-ND	2.92	2.41	2.23	—	PCE3695TR-ND	125	128.63	EEV-TG2A101M
	220	0.10	0.28	220.0	K16	400	PCE3698CT-ND	3.48	2.87	2.66	—	PCE3698TR-ND	125	153.38	EEV-TG2A221M
	330	0.10	0.28	330.0	K16	400	PCE3700CT-ND	3.48	2.87	2.66	—	PCE3700TR-ND	125	153.38	EEV-TG2A331M

Panasonic® TG Series Aluminum Electrolytic Capacitors, Surface Mount Type

Features: • Life Time: 1000-2000H @ 125°C • Automotive Applications • Surface Mount Type • Miniaturization (40% less than TA Series) • Low ESR (Low Temperature)

Specifications: • Operating Temperature Range: -40°C ~ 125°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

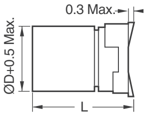

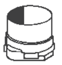

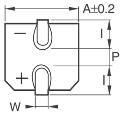

Following specified values:

Impedance 120Hz	Working Voltage 10V	16V	25V	35V	50V	63V	80V	100V
-25°C/20°C	3	2	2	2	2	2	2	2
-40°C/20°C	6	4	4	3	3	3	3	3

Size Code	Dimensions (mm) D	L	A	I	W	P
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, 20°C)	ESR (100kHz) (20°C) Ω	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mArms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
TG SERIES: –40°C ~ 125°C (1000 – 2000 HOUR LIFE)															
10	100	0.30	1	10.0	E	100	PCE3607CT-ND	.74	.61	.57	.52	PCE3607TR-ND	1,000	260.00	EEV-TG1A101P
	220	0.30	1	22.0	F	197	PCE3610CT-ND	.93	.76	.71	.66	PCE3610TR-ND	1,000	304.00	EEV-TG1A221P
	220	0.30	0.5	22.0	E	100	PCE3611CT-ND	.76	.63	.59	.54	PCE3611TR-ND	1,000	269.00	EEV-TG1A221UP
	330	0.30	0.3	33.0	G	270	PCE3613CT-ND	1.11	.91	.85	.78	PCE3613TR-ND	500	195.00	EEV-TG1A331P
	330	0.30	0.5	33.0	F	197	PCE3614CT-ND	.95	.79	.73	.67	PCE3614TR-ND	500	167.50	EEV-TG1A331UP
	470	0.30	0.3	47.0	G	270	PCE3617CT-ND	1.13	.94	.87	.80	PCE3617TR-ND	500	199.50	EEV-TG1A471UP
16	100	0.23	0.5	16.0	F	197	PCE3619CT-ND	.93	.76	.71	.66	PCE3619TR-ND	500	163.00	EEV-TG1C101P
	220	0.23	0.3	35.2	G	270	PCE3622CT-ND	1.11	.91	.85	.78	PCE3622TR-ND	500	195.00	EEV-TG1C221P
	220	0.23	0.5	35.2	F	197	PCE3623CT-ND	.95	.79	.73	.67	PCE3623TR-ND	500	167.50	EEV-TG1C221UP
	330	0.23	0.3	52.8	G	270	PCE3627CT-ND	1.13	.94	.87	.80	PCE3627TR-ND	500	199.50	EEV-TG1C331UP
25	47	0.18	1	11.75	E	100	PCE3640CT-ND	.74	.61	.57	.52	PCE3640TR-ND	1,000	260.00	EEV-TG1E470P
	100	0.18	0.5	25.0	F	197	PCE3631CT-ND	.93	.76	.71	.66	PCE3631TR-ND	500	163.00	EEV-TG1E101P
	100	0.18	1	25.0	E	100	PCE3632CT-ND	.76	.63	.59	.54	PCE3632TR-ND	1,000	269.00	EEV-TG1E101UP
	220	0.18	0.3	55.0	G	270	PCE3635CT-ND	1.11	.91	.85	.78	PCE3635TR-ND	500	195.00	EEV-TG1E221P
	220	0.18	0.5	55.0	F	197	PCE3636CT-ND	.95	.79	.73	.67	PCE3636TR-ND	500	167.50	EEV-TG1E221UP
	330	0.18	0.3	82.5	G	270	PCE3639CT-ND	1.13	.94	.87	.80	PCE3639TR-ND	500	199.50	EEV-TG1E331UP
35	33	0.16	1	11.55	E	100	PCE3686CT-ND	.74	.61	.57	.52	PCE3686TR-ND	1,000	260.00	EEV-TG1V330P
	47	0.16	0.5	16.45	F	197	PCE3688CT-ND	.93	.76	.71	.66	PCE3688TR-ND	500	163.00	EEV-TG1V470P
	47	0.16	1	16.45	E	100	PCE3689CT-ND	.76	.63	.59	.54	PCE3689TR-ND	1,000	269.00	EEV-TG1V470UP
	100	0.16	0.3	35.0	G	270	PCE3682CT-ND	1.11	.91	.85	.78	PCE3682TR-ND	500	195.00	EEV-TG1V101P
	100	0.16	0.5	35.0	F	197	PCE3683CT-ND	.95	.79	.73	.67	PCE3683TR-ND	500	167.50	EEV-TG1V101UP
	220	0.16	0.3	77.0	G	270	PCE3685CT-ND	1.13	.94	.87	.80	PCE3685TR-ND	500	199.50	EEV-TG1V221UP
50	10	0.14	1.6	5.0	E	80	PCE3644CT-ND	.74	.61	.57	.52	PCE3644TR-ND	1,000	260.00	EEV-TG1H100P
	22	0.14	1.6	11.0	E	80	PCE3647CT-ND	.74	.61	.57	.52	PCE3647TR-ND	1,000	260.00	EEV-TG1H220P
	33	0.14	0.75	16.5	F	133	PCE3649CT-ND	.93	.76	.71	.66	PCE3649TR-ND	500	163.00	EEV-TG1H330P
	33	0.14	1.6	16.5	E	80	PCE3650CT-ND	.76	.63	.59	.54	PCE3650TR-ND	1,000	269.00	EEV-TG1H330UP
	47	0.14	0.5	23.5	G	221	PCE3652CT-ND	1.11	.91	.85	.78	PCE3652TR-ND	500	195.00	EEV-TG1H470P
	47	0.14	0.75	23.5	F	133	PCE3653CT-ND	.95	.79	.73	.67	PCE3653TR-ND	500	167.50	EEV-TG1H470UP
	100	0.14	0.5	50.0	G	221	PCE3645CT-ND	1.13	.94	.87	.80	PCE3645TR-ND	500	199.50	EEV-TG1H101UP
63	10	0.12	2.2	6.3	E	55	PCE3657CT-ND	.74	.61	.57	.52	PCE3657TR-ND	1,000	260.00	EEV-TG1J100P
	22	0.12	1	13.86	F	100	PCE3660CT-ND	.93	.76	.71	.66	PCE3660TR-ND	500	163.00	EEV-TG1J220P
	33	0.12	0.8	20.79	G	150	PCE3662CT-ND	1.11	.91	.85	.78	PCE3662TR-ND	500	195.00	EEV-TG1J330P
	33	0.12	1	20.79	F	100	PCE3663CT-ND	.95	.79	.73	.67	PCE3663TR-ND	500	167.50	EEV-TG1J330UP
	47	0.12	0.8	29.61	G	150	PCE3665CT-ND	1.11	.91	.85	.78	PCE3665TR-ND	500	195.00	EEV-TG1J470P
	47	0.12	1	29.61	F	100	PCE3666CT-ND	.95	.79	.73	.67	PCE3666TR-ND	500	167.50	EEV-TG1J470UP
	100	0.12	0.8	63.0	G	150	PCE3659CT-ND	1.13	.94	.87	.80	PCE3659TR-ND	500	199.50	EEV-TG1J101UP
80	10	0.12	1.3	8.0	F	70	PCE3668CT-ND	.93	.76	.71	.66	PCE3668TR-ND	500	163.00	EEV-TG1K100P
	22	0.12	1	17.6	G	90	PCE3671CT-ND	1.11	.91	.85	.78	PCE3671TR-ND	500	195.00	EEV-TG1K220P
	22	0.12	1.3	17.6	F	70	PCE3672CT-ND	.95	.79	.73	.67	PCE3672TR-ND	500	167.50	EEV-TG1K220UP
	33	0.12	1	26.4	G	90	PCE3675CT-ND	1.11	.91	.85	.78	PCE3675TR-ND	500	195.00	EEV-TG1K330P
	33	0.12	1.3	26.4	F	70	PCE3676CT-ND	.95	.79	.73	.67	PCE3676TR-ND	500	167.50	EEV-TG1K330UP
	47	0.12	1	37.6	G	90	PCE3680CT-ND	1.13	.94	.87	.80	PCE3680TR-ND	500	199.50	EEV-TG1K470UP
100	10	0.10	1.3	10.0	F	70	PCE3694CT-ND	.93	.76	.71	.66	PCE3694TR-ND	500	163.00	EEV-TG2A100P
	22	0.10	1	22.0	G	90	PCE3696CT-ND	1.11	.91	.85	.78	PCE3696TR-ND	500	195.00	EEV-TG2A220P
	22	0.10	1.3	22.0	F	70	PCE3697CT-ND	.95	.79	.73	.67	PCE3697TR-ND	500	167.50	EEV-TG2A220UP
	33	0.10	1	33.0	G	90	PCE3699CT-ND	1.11	.91	.85	.78	PCE3699TR-ND	500	195.00	EEV-TG2A330P

Panasonic® TK Series Aluminum Electrolytic Capacitors, Surface Mount Type

Specifications: • Category Temperature Range: -40°C ~ 125°C • Rated Voltage: 10, 16, 25, 35 • Surge Voltage: 13, 20, 32, 44 • Capacitance Tolerance: ±20% (120Hz, 20°C)

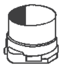

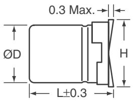

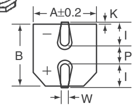

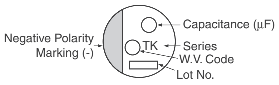

Following specified values:

Impedance 120Hz	Working Voltage 10	16	25	35
Z(-25°C)/Z(20°C)	3	2	2	2
Z(-40°C)/Z(20°C)	4	3	3	3

Rated Voltage Mark	
A	10V
C	16V
E	25V
V	35V

Size Code	D	L	A, B	H	I	W	P	K
F	8.0	10.2	8.3	10.0 Max.	3.4	0.90±0.2	3.1	0.70±0.2
G	10.0	10.2	10.3	12.0 Max.	3.5	0.90±0.2	4.6	0.70±0.2

Rated W.V. (VDC)	Nom. Cap. (µF)	tan∂ ≤ Spec. Values (120Hz, 20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mArms)	ESR Ω Max. 100kHz 20°C	ESR Ω Max. 100kHz -40°C	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Pricing 500	Panasonic Part No.
TK Series: –40°C ~ 125°C Low ESR (3000 Hour Life)															
10	220	0.30	22.0	F	197	0.30	5.0	PCE3723CT-ND	1.05	.87	.81	.75	PCE3723TR-ND	185.50	EEE-TK1A221P
	330	0.30	33.0	F	197	0.30	5.0	PCE3724CT-ND	1.05	.87	.81	.75	PCE3724TR-ND	185.50	EEE-TK1A331UP
	330	0.30	33.0	G	270	0.20	3.0	PCE3725CT-ND	1.27	1.04	.97	.90	PCE3725TR-ND	222.50	EEE-TK1A331P
	470	0.30	47.0	G	270	0.20	3.0	PCE3726CT-ND	1.27	1.04	.97	.90	PCE3726TR-ND	222.50	EEE-TK1A471UP
16	100	0.23	16.0	F	197	0.30	5.0	PCE3727CT-ND	1.05	.87	.81	.75	PCE3727TR-ND	185.50	EEE-TK1C101P
	220	0.23	35.2	F	197	0.30	5.0	PCE3728CT-ND	1.05	.87	.81	.75	PCE3728TR-ND	185.50	EEE-TK1C221UP
	220	0.23	35.2	G	270	0.20	3.0	PCE3729CT-ND	1.27	1.04	.97	.90	PCE3729TR-ND	222.50	EEE-TK1C221P
	330	0.23	52.8	G	270	0.20	3.0	PCE3730CT-ND	1.27	1.04	.97	.90	PCE3730TR-ND	222.50	EEE-TK1C331UP
25	100	0.18	25.0	F	197	0.30	5.0	PCE3731CT-ND	1.05	.87	.81	.75	PCE3731TR-ND	185.50	EEE-TK1E101P
	220	0.18	55.0	F	197	0.30	5.0	PCE3732CT-ND	1.05	.87	.81	.75	PCE3732TR-ND	185.50	EEE-TK1E221UP
	220	0.18	55.0	G	270	0.20	3.0	PCE3733CT-ND	1.27	1.04	.97	.90	PCE3733TR-ND	222.50	EEE-TK1E221P
	330	0.18	82.5	G	270	0.20	3.0	PCE3734CT-ND	1.27	1.04	.97	.90	PCE3734TR-ND	222.50	EEE-TK1E331UP
35	47	0.16	16.4	F	197	0.30	5.0	PCE3735CT-ND	1.05	.87	.81	.75	PCE3735TR-ND	185.50	EEE-TK1V470P
	100	0.16	35.0	F	197	0.30	5.0	PCE3736CT-ND	1.05	.87	.81	.75	PCE3736TR-ND	185.50	EEE-TK1V101UP
	100	0.16	35.0	G	270	0.20	3.0	PCE3737CT-ND	1.27	1.04	.97	.90	PCE3737TR-ND	222.50	EEE-TK1V101P
	220	0.16	77.0	G	270	0.20	3.0	PCE3738CT-ND	1.27	1.04	.97	.90	PCE3738TR-ND	222.50	EEE-TK1V221UP

Panasonic **SP-Cap** *Specialty Polymer Capacitor*

CX Series Specialty Polymer Aluminum Electrolytic Capacitors, Surface Mount Type

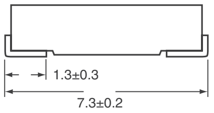

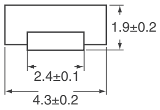

Code	Item
A	Polarity Bar (Positive)
B	R.V. Code
C	Capacitance
D	Lot No.

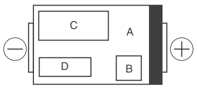

Continuing the tradition of providing ultra low ESR solutions, in the Panasonic SP-Cap family, Panasonic has developed the CX Series. The CX series has a higher CV packing density which allows for better price performance. It also has a very good noise absorption properties, and is an excellent choice for input and output capacitor for DC-DC converters. Can withstand 260°C temperature.

Specifications:

• Category Temperature Range: -40°C ~ 105°C • Rated Voltage: 2V ~ 6.3V • Capacitance: 100µF ~ 470µF (120Hz, 20°C) • Capacitance Tolerance: ±20% (120Hz, 20°C)

Rated W.V. (VDC)	Surge (VDC)	Nom. Cap. (µF)	tan∂ Max.	Leakage Current Max. (µA)	ESR Ω 100kHz/20°C Max.	Ripple Current (100KHz/ 20°C ~ 105°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 3,500	Panasonic Part No.
2	2.5	220	0.06	44.0	0.015	2.7Arms	PCE4274CT-ND	1.22	1.05	.79	.65	PCE4274TR-ND	523.00/M	EEF-CX0D221R
	2.5	330	0.06	66.0	0.015	2.7Arms	PCE4275CT-ND	1.35	1.16	.87	.72	PCE4275TR-ND	577.00/M	EEF-CX0D331R
	2.5	390	0.06	78.0	0.015	2.7Arms	PCE4812CT-ND	1.85	1.74	1.51	1.16	PCE4812TR-ND	693.00/M	EEF-CX0D391R
	2.5	470	0.06	94.0	0.015	2.7Arms	PCE4813CT-ND	1.85	1.74	1.51	1.16	PCE4813TR-ND	693.00/M	EEF-CX0D471R
2.5	3.1	220	0.06	55.0	0.015	2.7Arms	PCE4276CT-ND	1.35	1.16	.87	.72	PCE4276TR-ND	577.00/M	EEF-CX0E221R
	3.1	330	0.06	82.5	0.015	2.7Arms	PCE4814CT-ND	1.54	1.45	1.26	.97	PCE4814TR-ND	577.00/M	EEF-CX0E331R
	3.1	390	0.06	97.5	0.015	2.7Arms	PCE4815CT-ND	1.85	1.74	1.51	1.16	PCE4815TR-ND	693.00/M	EEF-CX0E391R
4	5	150	0.06	60.0	0.015	2.7Arms	PCE4277CT-ND	1.22	1.05	.79	.65	PCE4277TR-ND	523.00/M	EEF-CX0G151R
	5	220	0.06	88.0	0.015	2.7Arms	PCE4816CT-ND	1.85	1.74	1.51	1.16	PCE4816TR-ND	693.00/M	EEF-CX0G221R
6.3	8	100	0.06	63.0	0.015	2.7Arms	PCE4278CT-ND	1.35	1.16	.87	.72	PCE4278TR-ND	577.00/M	EEF-CX0J101R
	8	120	0.06	75.6	0.015	2.7Arms	PCE4817CT-ND	1.85	1.74	1.51	1.16	PCE4817TR-ND	693.00/M	EEF-CX0J121R

Panasonic **SP-Cap** *Specialty Polymer Capacitor*

CD Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

Features:

• Low profile type (1.8mm Height) of D size • Low impedance at high frequency (10kHz-10MHz) as low as ceramic capacitors (reduced ESR due to an applying speciality polymer with high conductivity) • Excellent noise-absorbent characteristics • Surface mount (reflow soldering method available) • Very stable capacitance, impedance and ESR against temperature • Excellent endurance characteristics due to adoption of solid electrolyte

Specifications:

• **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz/20°C) • **DC Leakage Current:** Reflow 240°C: I≤ 0.06CV 2 minutes (2 ~ 4V.DC); I≤ 0.04CV or 3µA 2 minutes (6.3 ~ 16V.DC, whichever is greater) Reflow 260°C: I≤ 0.1CV 2 minutes • **Dissipation Factor:** ≤0.06 (120Hz/20°C) • **Surge Voltage:** Rated Working Voltage x 1.25 • **Endurance:** After applying rated working voltage for 1000 hours at 105°C, and then being stabilized at 20°C, capacitor shall meet following limits: Capacitance Change (±10% of initial measured value) DF and DC leakage current (initial specified value) • **Moisture Resistance:** (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change of initial measured value, (**2, 2.5V.DC:** +70%, -20%), (**4V.DC:** +60%, -20%), (**6.3V:** +50%, -20%), (**8 ~ 16V.DC:** +40, -20%). DF ≤200% initial specified value. DC leakage current (initial specified value).

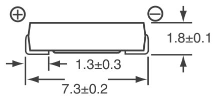

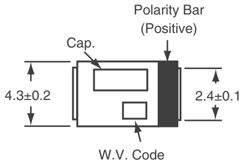

W.V.	Cap. (µF)	Impedance (100kHz/ 20°C)	Ripple Current (100kHz/ 20°C ~105°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Pricing 3,500	Panasonic Part No.
2.0	100	0.018Ω	2.5Arms	PCE3271CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD0D101R
	120	0.018Ω	2.5Arms	PCE2107CT-ND	1.82	1.37	1.19	545.00/M	EEF-CD0D121R
	150	0.018Ω	2.5Arms	PCE3561CT-ND	1.45	1.37	1.19	545.00/M	EEF-CD0D151R
	180	0.018Ω	2.5Arms	PCE4453CT-ND†	1.91	1.44	1.25	573.00/M	EEF-CD0D181ER
	220	0.018Ω	2.5Arms	PCE4447CT-ND	1.82	1.37	1.19	545.00/M	EEF-CD0D221R
	220	0.018Ω	2.5Arms	PCE4454CT-ND†	1.91	1.44	1.25	573.00/M	EEF-CD0D221ER
2.5	82	0.018Ω	2.5Arms	PCE3272CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD0E820R
	100	0.018Ω	2.5Arms	PCE2108CT-ND	1.82	1.37	1.19	545.00/M	EEF-CD0E101R
	120	0.018Ω	2.5Arms	PCE3562CT-ND	1.45	1.37	1.19	545.00/M	EEF-CD0E121R
	150	0.018Ω	2.5Arms	PCE4448CT-ND	1.82	1.37	1.19	545.00/M	EEF-CD0E151R
	150	0.018Ω	2.5Arms	PCE4455CT-ND†	1.91	1.44	1.25	573.00/M	EEF-CD0E151ER
4.0	56	0.018Ω	2.5Arms	PCE3274CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD0G560R
	68	0.018Ω	2.5Arms	PCE3977CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD0G680R
	82	0.018Ω	2.5Arms	PCE2109CT-ND	1.82	1.37	1.19	545.00/M	EEF-CD0G820R
	100	0.025Ω	1.8Arms	PCE3605CT-ND	1.45	1.28	1.10	545.00/M	EEF-CD0G101R
	100	0.025Ω	1.8Arms	PCE4456CT-ND†	1.91	1.44	1.25	573.00/M	EEF-CD0G101ER
6.3	10	0.055Ω	1.4Arms	PCE3157CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD0J100R
	22	0.040Ω	1.6Arms	PCE3158CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD0J220R
	33	0.028Ω	2.0Arms	PCE3159CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD0J330R
	47	0.018Ω	2.5Arms	PCE3160CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD0J470R
	68	0.018Ω	2.5Arms	PCE2110CT-ND	1.82	1.37	1.19	545.00/M	EEF-CD0J680R
	68	0.018Ω	2.5Arms	PCE4457CT-ND†	1.91	1.44	1.25	573.00/M	EEF-CD0J680ER
8.0	8.2	0.055Ω	1.4Arms	PCE3161CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD0K8R2R
	15	0.040Ω	1.6Arms	PCE3162CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD0K150R
	22	0.028Ω	2.0Arms	PCE3163CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD0K220R
	33	0.018Ω	2.5Arms	PCE3164CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD0K330R
	47	0.025Ω	1.8Arms	PCE3606CT-ND	1.45	1.28	1.10	545.00/M	EEF-CD0K470R
	47	0.025Ω	1.8Arms	PCE4458CT-ND†	1.91	1.44	1.25	573.00/M	EEF-CD0K470ER
12.5	4.7	0.080Ω	1Arms	PCE3165CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD1B4R7R
	10	0.060Ω	1Arms	PCE3166CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD1B100R
	15	0.050Ω	1.3Arms	PCE3167CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD1B150R
	22	0.030Ω	1.6Arms	PCE3168CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD1B220R
16.0	2.2	0.110Ω	1Arms	PCE3169CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD1C2R2R
	4.7	0.080Ω	1Arms	PCE3170CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD1C4R7R
	6.8	0.070Ω	1Arms	PCE3171CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD1C6R8R
	8.2	0.045Ω	1.3Arms	PCE3172CT-ND	1.65	1.24	1.08	495.00/M	EEF-CD1C8R2R

‡ For Tape and Reel Part Number, change CT-ND to TR-ND. † 260°C Reflow

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Panasonic **SP-Cap** *Specialty Polymer Capacitor*

FD Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

Features: • Low profile type (1.1mm Height) • Low impedance at high frequency (10kHz-10MHz) as low as ceramic capacitors (reduced ESR due to applying specialty polymer with high conductivity) • Excellent noise-absorbent characteristics • Surface mount (reflow soldering method avail.) • Very stable capacitance, impedance and ESR against temperature • Excellent endurance character due to adoption of solid electrolyte

Specifications: • Operating Temperature Range: -40°C ~ 105°C • Capacitance Tolerance: 20% (120Hz/ 20°C) • DC Leakage Current: I ≤ 0.04 CV or 3 (µA) after 2 minutes (whichever is the greater) (2 W.V. to 4 W.V.: I ≤ 0.06 CV) • Dissipation Factor: ≤0.06 (120Hz/ 20°C) • Surge Voltage: Rated Working Voltage x 1.25 (15°C ~ 35°C) • Endurance: After applying rated working voltage for 1000 hours at 105±2°C, and then being stabilized at 20°C, capacitor shall meet the following limits: Capacitance change (±10% of initial measured value). tan (≤initial specified value). DC leakage current (≤initial specified value) • Moisture Resistance: (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change +40%, -20% of initial measured value (4 W.V.: +60%, -20%; 6.3 W.V.: +50%, -20%). D.F.≤200% initial specified value. DC leakage current (≤initial specified value).

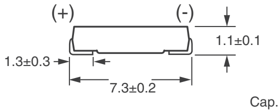

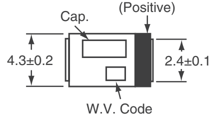

W.V.	Cap. (µF)	Impedance (400kHz/ 20°C)	Ripple Current (100kHz/ 20°C ~105°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,500	Panasonic Part No.
2	68	0.035Ω	1.6Arms	PCE2105CT-ND	2.05	1.54	1.34	PCE2105TR-ND	616.00/M	EEF-FD0D680R
2.5	56	0.035Ω	1.6Arms	PCE2106CT-ND	2.05	1.54	1.34	PCE2106TR-ND	616.00/M	EEF-FD0E560R
4	39	0.035Ω	1.6Arms	PCE3451CT-ND	2.05	1.54	1.34	PCE3451TR-ND	616.00/M	EEF-FD0G390R
6.3	33	0.035Ω	1.6Arms	PCE3452CT-ND	2.05	1.54	1.34	PCE3452TR-ND	616.00/M	EEF-FD0J330R
8	22	0.035Ω	1.6Arms	PCE3453CT-ND	2.05	1.54	1.34	PCE3453TR-ND	616.00/M	EEF-FD0K220R

UD/UE Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

Features: • Low impedance at high frequency (10kHz to 10MHz) as low as ceramic capacitors (Reduced ESR due to applying speciality polymer with high conductivity) • Stable temperature characteristics: capacitance, impedance and ESR • Excellent noise-absorbent characteristics • Voltage derating not necessary • Excellent endurance characteristics due to adoption of solid electrolyte **Specifications: • Operating Temperature Range:** -40°C ~ 105°C **• Capacitance Tolerance:** ±20% (120Hz/20°C) **• DC Leakage Current:** 4V I≤ 0.06CV, 6.3 to 8V I≤ 0.04CV after 2 minutes **• Dissipation Factor:** ≤0.1 maximum **• Surge Voltage:** Rated Working Voltage x 1.25 **• Endurance:** After applying rated working voltage for 1000 hours at 105°C, and then being stabilized at 20°C, capacitor shall meet following limits: Capacitance Change (±10% of initial measured value). DF (initial specified value). DC leakage current (initial specified value). **• Moisture Resistance:** (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change: (*2V, 2.5V:* +70%, -20%, *4V:* +60%, -20%, *6.3V:* +50%, -20%, *8V:* +40%, -20% of initial measured value). DF ≤200% initial specified value. DC leakage current (initial specified value).

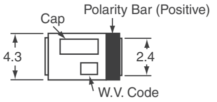

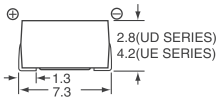

W.V. (VDC)	Cap. (µF)	ESR (100kHz/ 20°C) Max	Ripple Current (100kHz/ 20°C ~ 105°C)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape & Reel‡ Pricing 2,000	Panasonic Part No.
UD Series									
2.0	180	0.015Ω	3.0Arms	PCE3262CT-ND	2.92	2.20	1.91	877.00/M	EEF-UD0D181R
	220	0.015Ω	3.0Arms	PCE3973CT-ND	2.92	2.20	1.91	877.00/M	EEF-UD0D221R
	270	0.015Ω	3.0Arms	PCE2111CT-ND	3.22	2.42	2.10	966.00/M	EEF-UD0D271R
	270	0.009Ω	3.4Arms	PCE4269CT-ND	2.37	2.03	1.53	1014.00/M	EEF-UD0D271LR
	270	0.009Ω	3.4Arms	PCE4486CT-ND†	2.84	2.49	2.13	1064.00/M	EEF-UD0D271LE
	330	0.015Ω	3.0Arms	PCE3563CT-ND	2.58	2.42	2.10	966.00/M	EEF-UD0D331R
	330	0.009Ω	3.4Arms	PCE4270CT-ND	2.37	2.03	1.53	1014.00/M	EEF-UD0D331LR
	330	0.009Ω	3.4Arms	PCE4487CT-ND†	2.84	2.49	2.13	1064.00/M	EEF-UD0D331LE
	390	0.009Ω	3.4Arms	PCE4282CT-ND	2.25	1.94	1.45	966.00/M	EEF-UD0D391R
	390	0.015Ω	3.0Arms	PCE4488CT-ND†	2.70	2.37	2.03	1014.00/M	EEF-UD0D391ER
	390	0.009Ω	3.4Arms	PCE4450CT-ND	2.70	2.37	2.03	1014.00/M	EEF-UD0D391LR
	390	0.009Ω	3.4Arms	PCE4489CT-ND†	2.84	2.49	2.13	1064.00/M	EEF-UD0D391LE
	470	0.009Ω	3.4Arms	PCE4272CT-ND	2.37	2.03	1.53	1014.00/M	EEF-UD0D471LR
	470	0.009Ω	3.3Arms	PCE4490CT-ND†	2.84	2.49	2.13	1064.00/M	EEF-UD0D471LE
2.5	150	0.015Ω	3.0Arms	PCE3273CT-ND	2.92	2.20	1.91	877.00/M	EEF-UD0E151R
	180	0.015Ω	3.0Arms	PCE3974CT-ND	2.92	2.20	1.91	877.00/M	EEF-UD0E181R
	220	0.015Ω	3.0Arms	PCE2112CT-ND	3.22	2.42	2.10	966.00/M	EEF-UD0E221R
	220	0.009Ω	3.4Arms	PCE4265CT-ND	2.37	2.03	1.53	1014.00/M	EEF-UD0E221LR
	220	0.009Ω	3.4Arms	PCE4491CT-ND†	2.84	2.49	2.13	1064.00/M	EEF-UD0E221LE
	270	0.015Ω	3.0Arms	PCE3564CT-ND	2.58	2.42	2.10	966.00/M	EEF-UD0E271R
	270	0.009Ω	3.4Arms	PCE4268CT-ND	2.37	2.03	1.53	1014.00/M	EEF-UD0E271LR
	270	0.009Ω	3.4Arms	PCE4492CT-ND†	2.84	2.49	2.13	1064.00/M	EEF-UD0E271LE
	330	0.009Ω	3.4Arms	PCE4283CT-ND	2.73	2.35	1.76	1171.00/M	EEF-UD0E331R
4.0	120	0.015Ω	3.0Arms	PCE3263CT-ND	2.92	2.20	1.91	877.00/M	EEF-UD0G121R
	150	0.015Ω	3.0Arms	PCE2113CT-ND	3.22	2.42	2.10	966.00/M	EEF-UD0G151R
	150	0.009Ω	3.4Arms	PCE4267CT-ND	2.37	2.03	1.53	1014.00/M	EEF-UD0G151LR
	150	0.009Ω	3.4Arms	PCE4493CT-ND†	2.84	2.49	2.13	1064.00/M	EEF-UD0G151LE
	180	0.018Ω	2.5Arms	PCE3599CT-ND	2.58	2.26	1.94	966.00/M	EEF-UD0G181R
	180	0.009Ω	3.4Arms	PCE4271CT-ND	2.37	2.03	1.53	1014.00/M	EEF-UD0G181LR
	180	0.009Ω	3.4Arms	PCE4494CT-ND†	2.84	2.49	2.13	1064.00/M	EEF-UD0G181LE
6.3	100	0.015Ω	3.0Arms	PCE3264CT-ND	2.92	2.20	1.91	877.00/M	EEF-UD0J101R
	120	0.015Ω	3.0Arms	PCE2114CT-ND	3.22	2.42	2.10	966.00/M	EEF-UD0J121R
	120	0.009Ω	3.4Arms	PCE4266CT-ND	2.37	2.03	1.53	1014.00/M	EEF-UD0J121LR
	150	0.018Ω	2.5Arms	PCE3600CT-ND	2.58	2.26	1.94	966.00/M	EEF-UD0J151R
	150	0.009Ω	3.4Arms	PCE4273CT-ND	2.37	2.03	1.53	1014.00/M	EEF-UD0J151LR
8.0	68	0.015Ω	3.0Arms	PCE3265CT-ND	2.92	2.20	1.91	877.00/M	EEF-UD0K680R
	100	0.018Ω	2.5Arms	PCE3601CT-ND	2.58	2.26	1.94	966.00/M	EEF-UD0K101R
	100	0.018Ω	2.5Arms	PCE4495CT-ND†	2.70	2.37	2.03	1014.00/M	EEF-UD0K101ER
UE Series									
2.0	270	0.012Ω	3.3Arms	PCE3266CT-ND	4.39	3.30	2.86	1318.00/M	EEF-UE0D271R
	330	0.012Ω	3.3Arms	PCE3975CT-ND	4.39	3.30	2.86	1318.00/M	EEF-UE0D331R
2.0	390	0.012Ω	3.3Arms	PCE2115CT-ND	4.83	3.63	3.15	1450.00/M	EEF-UE0D391R
	390	0.007Ω	3.7Arms	PCE4257CT-ND	3.55	3.05	2.29	1523.00/M	EEF-UE0D391LR
	390	0.007Ω	3.7Arms	PCE4496CT-ND†	4.27	3.74	3.21	1600.00/M	EEF-UE0D391LE
	470	0.012Ω	3.3Arms	PCE3567CT-ND	3.87	3.63	3.15	1450.00/M	EEF-UE0D471R
	470	0.007Ω	3.7Arms	PCE4258CT-ND	3.55	3.05	2.29	1523.00/M	EEF-UE0D471LR
	470	0.007Ω	3.7Arms	PCE4497CT-ND†	4.27	3.74	3.21	1600.00/M	EEF-UE0D471LE
	560	0.007Ω	3.7Arms	PCE4284CT-ND	3.38	2.90	2.18	1450.00/M	EEF-UE0D561R
	560	0.007Ω	3.7Arms	PCE4256CT-ND	3.55	3.05	2.29	1523.00/M	EEF-UE0D561LR
	560	0.012Ω	3.3Arms	PCE4498CT-ND†	4.06	3.56	3.05	1523.00/M	EEF-UE0D561ER
	560	0.007Ω	3.7Arms	PCE4499CT-ND†	4.27	3.74	3.21	1600.00/M	EEF-UE0D561LE
2.5	220	0.012Ω	3.3Arms	PCE3267CT-ND	4.39	3.30	2.86	1318.00/M	EEF-UE0E221R
	270	0.012Ω	3.3Arms	PCE3976CT-ND	4.39	3.30	2.86	1318.00/M	EEF-UE0E271R
	330	0.012Ω	3.3Arms	PCE2116CT-ND	4.83	3.63	3.15	1450.00/M	EEF-UE0E331R
	330	0.007Ω	3.7Arms	PCE4259CT-ND	3.55	3.05	2.29	1523.00/M	EEF-UE0E331LR
	330	0.007Ω	3.7Arms	PCE4500CT-ND†	4.27	3.74	3.21	1600.00/M	EEF-UE0E331LE
	390	0.012Ω	3.3Arms	PCE3568CT-ND	3.87	3.63	3.15	1450.00/M	EEF-UE0E391R
	390	0.007Ω	3.7Arms	PCE4261CT-ND	3.55	3.05	2.29	1523.00/M	EEF-UE0E391LR
	390	0.007Ω	3.7Arms	PCE4501CT-ND†	4.27	3.74	3.21	1600.00/M	EEF-UE0E391LE
	470	0.007Ω	3.7Arms	PCE4451CT-ND	4.06	3.56	3.05	1523.00/M	EEF-UE0E471LR
	470	0.012Ω	3.3Arms	PCE4452CT-ND	3.87	3.39	2.91	1450.00/M	EEF-UE0E471R
	470	0.012Ω	3.3Arms	PCE4502CT-ND†	4.06	3.56	3.05	1523.00/M	EEF-UE0E471ER
	470	0.007Ω	3.7Arms	PCE4503CT-ND†	4.27	3.74	3.21	1600.00/M	EEF-UE0E471LE
4.0	180	0.012Ω	3.3Arms	PCE3268CT-ND	4.39	3.30	2.86	1318.00/M	EEF-UE0G181R
	220	0.012Ω	3.3Arms	PCE2117CT-ND	4.83	3.63	3.15	1450.00/M	EEF-UE0G221R
	220	0.007Ω	3.7Arms	PCE4260CT-ND	3.55	3.05	2.29	1523.00/M	EEF-UE0G221LR
	220	0.007Ω	3.7Arms	PCE4504CT-ND†	4.27	3.74	3.21	1600.00/M	EEF-UE0G221LE
	270	0.015Ω	3.0Arms	PCE3602CT-ND	3.87	3.39	2.91	1450.00/M	EEF-UE0G271R
	270	0.007Ω	3.7Arms	PCE4264CT-ND	3.55	3.05	2.29	1523.00/M	EEF-UE0G271LR
	330	0.007Ω	3.7Arms	PCE4285CT-ND	3.38	2.90	2.18	1450.00/M	EEF-UEOG331R
	330	0.012Ω	3.3Arms	PCE4505CT-ND†	4.06	3.56	3.05	1523.00/M	EEF-UE0G331ER
6.3	150	0.012Ω	3.3Arms	PCE3269CT-ND	4.39	3.30	2.86	1318.00/M	EEF-UE0J151R
	150	0.012Ω	3.3Arms	PCE4506CT-ND†	3.69	3.23	2.77	1384.00/M	EEF-UE0J151ER
	180	0.012Ω	3.3Arms	PCE2118CT-ND	4.83	3.63	3.15	1450.00/M	EEF-UE0J181R
	180	0.007Ω	3.7Arms	PCE4262CT-ND	3.55	3.05	2.29	1523.00/M	EEF-UE0J181LR
	220	0.015Ω	3.0Arms	PCE3603CT-ND	3.87	3.39	2.91	1450.00/M	EEF-UE0J221R
	220	0.007Ω	3.7Arms	PCE4263CT-ND	3.55	3.05	2.29	1523.00/M	EEF-UE0J221LR
	220	0.015Ω	3.0Arms	PCE4507CT-ND†	4.06	3.56	3.05	1523.00/M	EEF-UE0J221ER
8.0	100	0.012Ω	3.3Arms	PCE3270CT-ND	4.39	3.30	2.86	1318.00/M	EEF-UE0K101R
	150	0.015Ω	3.0Arms	PCE3604CT-ND	3.87	3.39	2.91	1450.00/M	EEF-UE0K151R
	150	0.015Ω	3.0Arms	PCE4508CT-ND†	4.06	3.56	3.05	1523.00/M	EEF-UE0K151ER

† 260°C Reflow ‡ For Tape and Reel part number, change CT-ND to TR-ND.

S Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

Features: • Lower ESR • Higher Ripple Current **Specifications: • Operating Temperature Range:** -40°C ~ 105°C **• Rated W.V. Range:** 2 ~ 6.3VDC **• Nominal Capacitance Range:** 56 ~ 560µF **• Capacitance Tolerance:** ±20% (120Hz/ 20°C) **• DC Leakage Current:** I≤ 0.06CV after 2 minutes (2 ~ 4V.DC); I≤ 0.04CV 2 minutes (6.3V.DC) Reflow 260°C: I≤ 0.1CV 2 minutes **• Dissipation Factor:** 0.06 maximum (SL/SX), 0.10 maximum (SD/SE) (120Hz/ 20°C) **• Surge Voltage:** Rated Working Voltage x 1.25 (15°C ~ 35°C) **• Endurance:** After applying rated working voltage for 1,000 hours at 105±2°C, and then being stabilized at 20°C, the capacitor shall meet the following limits. Capacitance change ±10% of initial measured value. D.F.and DC leakage current are ≤Initial specified value **• Moisture Resistance:** (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change: (2 W.V./ 2.5 W.V.: +70%, -20%; 4 W.V.: +60%, -20%; 6.3 W.V.: +50%, -20%, of initial measured value). DF ≤200% initial specified value. DC leakage current initial specified value.

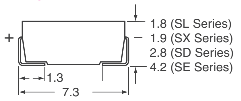

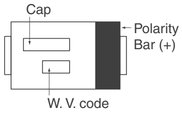

W.V.	Capacitance (µF)	ESR (100KHz / 20°C)	Ripple Current (100KHz / 105°C)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	Panasonic Part No.
SL Series										
2	100	0.009Ω	3.0Arms	PCE3978CT-ND	1.99	1.49	1.30	3,500	596.00/M	EEF-SL0D101R
	100	0.009Ω	3.0Arms	PCE4471CT-ND†	2.08	1.57	1.36	3,500	625.00/M	EEF-SL0D101ER
	120	0.009Ω	3.0Arms	PCE3551CT-ND	1.59	1.49	1.30	3,500	596.00/M	EEF-SL0D121R
	120	0.009Ω	3.0Arms	PCE4472CT-ND†	2.08	1.57	1.36	3,500	625.00/M	EEF-SL0D121ER
	150	0.009Ω	3.0Arms	PCE3552CT-ND	1.59	1.49	1.30	3,500	596.00/M	EEF-SL0D151R
	150	0.009Ω	3.0Arms	PCE4473CT-ND†	2.08	1.57	1.36	3,500	625.00/M	EEF-SL0D151ER
	180	0.009Ω	3.0Arms	PCE3702CT-ND	1.75	1.64	1.42	3,500	655.00/M	EEF-SL0D181R
	180	0.009Ω	3.0Arms	PCE4474CT-ND†	2.29	1.72	1.49	3,500	687.00/M	EEF-SL0D181ER
2.5	100	0.009Ω	3.0Arms	PCE3553CT-ND	1.59	1.49	1.30	3,500	596.00/M	EEF-SL0E101R
	100	0.009Ω	3.0Arms	PCE4475CT-ND†	2.08	1.57	1.36	3,500	625.00/M	EEF-SL0E101ER
	120	0.009Ω	3.0Arms	PCE3554CT-ND	1.59	1.49	1.30	3,500	596.00/M	EEF-SL0E121R
	120	0.009Ω	3.0Arms	PCE4476CT-ND†	2.08	1.57	1.36	3,500	625.00/M	EEF-SL0E121ER
	150	0.009Ω	3.0Arms	PCE4449CT-ND	1.99	1.49	1.30	3,500	596.00/M	EEF-SL0E151R
	150	0.009Ω	3.0Arms	PCE4477CT-ND†	2.08	1.57	1.36	3,500	625.00/M	EEF-SL0E151ER
4	82	0.009Ω	3.0Arms	PCE3555CT-ND	1.59	1.49	1.30	3,500	596.00/M	EEF-SL0G820R
	82	0.009Ω	3.0Arms	PCE4478CT-ND†	2.08	1.57	1.36	3,500	625.00/M	EEF-SL0G820ER
6.3	56	0.009Ω	3.0Arms	PCE3556CT-ND	1.59	1.49	1.30	3,500	596.00/M	EEF-SL0J560R
SX Series										
2	180	0.009Ω	3.0Arms	PCE3557CT-ND	2.09	1.96	1.70	3,500	784.00/M	EEF-SX0D181R
	220	0.009Ω	3.0Arms	PCE3703CT-ND	2.30	2.16	1.88	3,500	864.00/M	EEF-SX0D221R
	220	0.009Ω	3.0Arms	PCE4479CT-ND†	3.02	2.27	1.97	3,500	907.00/M	EEF-SX0D221ER
	270	0.009Ω	3.0Arms	PCE4280CT-ND	2.02	1.73	1.30	3,500	864.00/M	EEF-SX0D271R
	270	0.009Ω	3.0Arms	PCE4480CT-ND†	3.02	2.27	1.97	3,500	907.00/M	EEF-SX0D271ER
	330	0.009Ω	3.0Arms	PCE4281CT-ND	2.02	1.73	1.30	3,500	864.00/M	EEF-SX0D331R
	330	0.009Ω	3.0Arms	PCE4481CT-ND†	3.02	2.27	1.97	3,500	907.00/M	EEF-SX0D331ER
	330	0.006Ω	3.5Arms	PCE4818CT-ND	2.41	2.27	1.96	3,500	905.00/M	EEF-SX0D331XR
	390	0.009Ω	3.0Arms	PCE4820CT-ND	2.50	2.35	2.04	3,500	939.00/M	EEF-SX0D391R
	390	0.009Ω	3.0Arms	PCE4819CT-ND†	2.64	2.48	2.15	3,500	989.00/M	EEF-SX0D391ER
	470	0.009Ω	3.0Arms	PCE4822CT-ND	2.50	2.35	2.04	3,500	939.00/M	EEF-SX0D471R
	470	0.009Ω	3.0Arms	PCE4821CT-ND†	2.64	2.48	2.15	3,500	989.00/M	EEF-SX0D471ER
	470	0.006Ω	3.5Arms	PCE4823CT-ND†	2.77	2.60	2.25	3,500	1038.00/M	EEF-SX0D471XE
	470	0.006Ω	3.5Arms	PCE4824CT-ND	2.63	2.47	2.14	3,500	986.00/M	EEF-SX0D471XR

† 260°C Reflow ‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® SP-Cap Specialty Polymer Capacitor S Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type *(Cont.)*

Digi-Reel® RoHS

W.V.	Capacitance (µF)	ESR (100KHz / 20°C)	Ripple Current (100KHz / 105°C)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Panasonic Part No.
					1	10	100	Qty.	Pricing	
2.5	150	0.009Ω	3.0Arms	PCE3558CT-ND	2.09	1.96	1.70	3,500	784.00/M	EEF-SX0E151R
	150	0.009Ω	3.0Arms	PCE4482CT-ND†	2.74	2.06	1.79	3,500	823.00/M	EEF-SX0E151ER
	180	0.009Ω	3.0Arms	PCE3979CT-ND	2.88	2.16	1.88	3,500	864.00/M	EEF-SX0E181R
	180	0.009Ω	3.0Arms	PCE4483CT-ND†	3.02	2.27	1.97	3,500	907.00/M	EEF-SX0E181ER
	220	0.009Ω	3.0Arms	PCE4826CT-ND	2.30	2.16	1.88	3,500	864.00/M	EEF-SX0E221R
	220	0.009Ω	3.0Arms	PCE4825CT-ND†	2.42	2.27	1.97	3,500	907.00/M	EEF-SX0E221ER
	330	0.009Ω	3.0Arms	PCE4828CT-ND	2.30	2.16	1.88	3,500	864.00/M	EEF-SX0E331R
	330	0.009Ω	3.0Arms	PCE4827CT-ND†	2.42	2.27	1.97	3,500	907.00/M	EEF-SX0E331ER
	330	0.006Ω	3.5Arms	PCE4829CT-ND†	2.54	2.39	2.07	3,500	952.00/M	EEF-SX0E331XE
	330	0.006Ω	3.5Arms	PCE4830CT-ND	2.41	2.27	1.96	3,500	905.00/M	EEF-SX0E331XR
	390	0.009Ω	3.0Arms	PCE4832CT-ND	2.50	2.35	2.04	3,500	939.00/M	EEF-SX0E391R
	390	0.009Ω	3.0Arms	PCE4831CT-ND†	2.64	2.48	2.15	3,500	989.00/M	EEF-SX0E391ER
	390	0.006Ω	3.5Arms	PCE4833CT-ND†	2.77	2.60	2.25	3,500	1038.00/M	EEF-SX0E391XE
	390	0.006Ω	3.5Arms	PCE4834CT-ND	2.63	2.47	2.14	3,500	986.00/M	EEF-SX0E391XR
4	82	0.009Ω	3.0Arms	PCE3980CT-ND	2.88	2.16	1.88	3,500	864.00/M	EEF-SX0G820R
	82	0.009Ω	3.0Arms	PCE4485CT-ND†	2.74	2.06	1.79	3,500	823.00/M	EEF-SX0G820ER
	100	0.009Ω	3.0Arms	PCE3559CT-ND	2.09	1.96	1.70	3,500	784.00/M	EEF-SX0G101R
	100	0.009Ω	3.0Arms	PCE4484CT-ND†	2.74	2.06	1.79	3,500	823.00/M	EEF-SX0G101ER
	150	0.009Ω	3.0Arms	PCE4836CT-ND	2.30	2.16	1.88	3,500	864.00/M	EEF-SX0G151R
	150	0.009Ω	3.0Arms	PCE4835CT-ND†	2.42	2.27	1.97	3,500	907.00/M	EEF-SX0G151ER
6.3	68	0.009Ω	3.0.Arms	PCE3560CT-ND	2.09	1.96	1.70	3,500	784.00/M	EEF-SX0J680R
SD Series										
2	270	0.007Ω	3.5Arms	PCE3539CT-ND	2.81	2.64	2.28	2,000	1052.00/M	EEF-SD0D271R
	270	0.007Ω	3.5Arms	PCE4459CT-ND†	2.95	2.77	2.40	2,000	1105.00/M	EEF-SD0D271ER
	330	0.007Ω	3.5Arms	PCE3540CT-ND	2.81	2.64	2.28	2,000	1052.00/M	EEF-SD0D331R
	330	0.007Ω	3.5Arms	PCE4460CT-ND†	2.95	2.77	2.40	2,000	1105.00/M	EEF-SD0D331ER
	390	0.007Ω	3.5Arms	PCE3704CT-ND	3.08	2.90	2.51	2,000	1157.00/M	EEF-SD0D391R
	390	0.007Ω	3.5Arms	PCE4461CT-ND†	3.24	3.04	2.64	2,000	1215.00/M	EEF-SD0D391ER
2.5	220	0.007Ω	3.5Arms	PCE3541CT-ND	2.81	2.64	2.28	2,000	1052.00/M	EEF-SD0E221R
	220	0.007Ω	3.5Arms	PCE4462CT-ND†	2.95	2.77	2.40	2,000	1105.00/M	EEF-SD0E221ER
	270	0.007Ω	3.5Arms	PCE3542CT-ND	2.81	2.64	2.28	2,000	1052.00/M	EEF-SD0E271R
	270	0.007Ω	3.5Arms	PCE4463CT-ND†	2.95	2.77	2.40	2,000	1105.00/M	EEF-SD0E271ER
4	150	0.007Ω	3.5Arms	PCE3543CT-ND	2.81	2.64	2.28	2,000	1052.00/M	EEF-SD0G151R
	150	0.007Ω	3.5Arms	PCE4464CT-ND†	2.95	2.77	2.40	2,000	1105.00/M	EEF-SD0G151ER
6.3	120	0.007Ω	3.5Arms	PCE3544CT-ND	2.81	2.64	2.28	2,000	1052.00/M	EEF-SD0J121R
SE Series										
2	390	0.005Ω	4.0Arms	PCE3545CT-ND	4.22	3.96	3.43	2,000	1582.00/M	EEF-SE0D391R
	390	0.005Ω	4.0Arms	PCE4465CT-ND†	4.43	4.16	3.60	2,000	1661.00/M	EEF-SE0D391ER
	470	0.005Ω	4.0Arms	PCE3546CT-ND	4.22	3.96	3.43	2,000	1582.00/M	EEF-SE0D471R
	470	0.005Ω	4.0Arms	PCE4466CT-ND†	4.43	4.16	3.60	2,000	1661.00/M	EEF-SE0D471ER
	560	0.005Ω	4.0Arms	PCE3705CT-ND	4.64	4.36	3.78	2,000	1741.00/M	EEF-SE0D561R
	560	0.005Ω	4.0Arms	PCE4467CT-ND†	4.69	4.40	3.81	2,000	1758.00/M	EEF-SE0D561ER
2.5	330	0.005Ω	4.0Arms	PCE3547CT-ND	4.22	3.96	3.43	2,000	1582.00/M	EEF-SE0E331R
	330	0.005Ω	4.0Arms	PCE4468CT-ND†	4.43	4.16	3.60	2,000	1661.00/M	EEF-SE0E331ER
	390	0.005Ω	4.0Arms	PCE3548CT-ND	4.22	3.96	3.43	2,000	1582.00/M	EEF-SE0E391R
	390	0.005Ω	4.0Arms	PCE4469CT-ND†	4.43	4.16	3.60	2,000	1661.00/M	EEF-SE0E391ER
	470	0.005Ω	4.0Arms	PCE4279CT-ND	4.22	3.62	2.72	2,000	1808.00/M	EEF-SE0E471R
4	220	0.005Ω	4.0Arms	PCE3549CT-ND	4.22	3.96	3.43	2,000	1582.00/M	EEF-SE0G221R
	220	0.005Ω	4.0Arms	PCE4470CT-ND†	4.43	4.16	3.60	2,000	1661.00/M	EEF-SE0G221ER
6.3	180	0.005Ω	4.0Arms	PCE3550CT-ND	4.22	3.96	3.43	2,000	1582.00/M	EEF-SE0J181R

† 260°C Reflow ‡ For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic® SP-Cap Specialty Polymer Capacitor

H Series Specialty Polymer Aluminum Electrolytic Chip Capacitors Surface Mount Type

Digi-Reel® RoHS COMPLIANT

Features: • High Reliability (125°C) • Low ESR and High Ripple Current
Specifications: • Operating Temperature Range: -40°C ~ 125°C **• Capacitance Tolerance:** ±20% (120Hz/20°C) **• DC Leakage Current:** I≤ 0.1CV after 2 minutes **• Dissipation Factor:** 0.1 max (120Hz/20°C) **• Surge Voltage:** Rated Working Voltage x 1.25 (15°C ~ 35°C) **• Endurance:** After applying rated working voltage for 1,000 hours or derated voltage (working voltage x 0.875 at 115°C or working voltage x 0.75 at 125°C) and then being stabilized at 20°C, the capacitor shall meet the following limits. Capacitance change ±10% of initial measured value. D.F.≤Initial specified value **• Moisture Resistance:** (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change (*2V / 2.5V:* +70%, -20%, *4V:* +60%, -20%, *6.3V:* +50%, -20%, 8V: +40%, -20% of initial measured value). DF ≤200% initial specified value. DC leakage current (initial specified value).

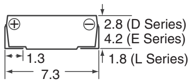

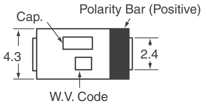

W.V.	Cap. (µF)	ESR (100KHz/ 20°C)	Ripple Current (100KHz/ 125°C)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel‡		Panasonic Part No.
					1	10	100	Qty.	Pricing	
HD Series										
2	180	.015Ω	2.5Arms	PCE2119CT-ND	3.22	2.42	2.10	2,000	966.00/M	EEF-HD0D181R
2	220	.015Ω	2.5Arms	PCE3529CT-ND	2.58	2.42	2.10	2,000	966.00/M	EEF-HD0D221R
2.5	150	.015Ω	2.5Arms	PCE2120CT-ND	3.22	2.42	2.10	2,000	966.00/M	EEF-HD0E151R
2.5	180	.015Ω	2.5Arms	PCE3530CT-ND	2.58	2.42	2.10	2,000	966.00/M	EEF-HD0E181R
4	120	.015Ω	2.5Arms	PCE2121CT-ND	3.22	2.42	2.10	2,000	966.00/M	EEF-HD0G121R
6.3	100	.015Ω	2.5Arms	PCE2122CT-ND	3.22	2.42	2.10	2,000	966.00/M	EEF-HD0J101R
8	68	.015Ω	2.5Arms	PCE2123CT-ND	3.22	2.42	2.10	2,000	966.00/M	EEF-HD0K680R
HE Series										
2	270	.012Ω	3.0Arms	PCE2124CT-ND	4.83	3.63	3.15	2,000	1450.00/M	EEF-HE0D271R
2	330	.012Ω	3.0Arms	PCE3531CT-ND	3.87	3.63	3.15	2,000	1450.00/M	EEF-HE0D331R
2.5	220	.012Ω	3.0Arms	PCE2125CT-ND	4.83	3.63	3.15	2,000	1450.00/M	EEF-HE0E221R
2.5	270	.012Ω	3.0Arms	PCE3532CT-ND	4.38	4.11	3.56	2,000	1643.00/M	EEF-HE0E271R
4	180	.012Ω	3.0Arms	PCE2126CT-ND	4.83	3.63	3.15	2,000	1450.00/M	EEF-HE0G181R
6.3	150	.012Ω	3.0Arms	PCE2127CT-ND	4.83	3.63	3.15	2,000	1450.00/M	EEF-HE0J151R
8	100	.012Ω	3.0Arms	PCE2128CT-ND	4.83	3.63	3.15	2,000	1450.00/M	EEF-HE0K101R
HL Series										
2	100	.018Ω	1.8Arms	PCE3533CT-ND	1.45	1.37	1.19	3,500	545.00/M	EEF-HL0D101R
2.5	82	.018Ω	1.8Arms	PCE3534CT-ND	1.45	1.37	1.19	3,500	545.00/M	EEF-HL0E820R
4	56	.018Ω	1.8Arms	PCE3535CT-ND	1.45	1.37	1.19	3,500	545.00/M	EEF-HL0G560R
4	68	.018Ω	1.8Arms	PCE3536CT-ND	1.45	1.37	1.19	3,500	545.00/M	EEF-HL0G680R
6.3	47	.018Ω	1.8Arms	PCE3537CT-ND	1.45	1.37	1.19	3,500	545.00/M	EEF-HL0J470R
8	33	.018Ω	1.8Arms	PCE3538CT-ND	1.45	1.37	1.19	3,500	545.00/M	EEF-HL0K330R

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic® SP-Cap Specialty Polymer Capacitor

SP/CB Series Specialty Polymer Aluminum Electrolytic Capacitors, Surface Mount Type

Digi-Reel®

Features: • Excellent noise-absorbent characteristics • Surface mountable (Flow and reflow soldering method available) • Very stable capacitance, impedance and ESR against temperature • Excellent endurance characteristics due to an adoption of solid electrolyte

Specifications: • Operating Temperature Range: -40°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, 20°C) **• Leakage Current:** I≤ 0.04 CV or 3µA after 2 minutes **• Dissipation Factor:** ≤0.06 (120Hz, 20°C) **• Permissible Current Between Terminals with Same Polarity:** 2A DC maximum (This shall be applicable only when each terminal is landed individually as shown in Fig. 2.) **• Surge Voltage:** Rated working voltage x 1.25 **• Endurance:** After applying rated working voltage for 1000 hours at 105°C, and then being stabilized at 20°C, capacitor shall meet the following limits: Capacitance Change (±10% of initial measured value); tan, Impedance and DC Leakage Current (Initial specified value).

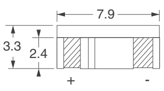

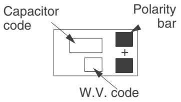

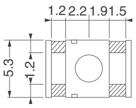

Rated W.V. (VDC)	Nom. Cap. (µF)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000	Panasonic Part No.
			1	10	100			
6.3	10	PCS1100BCT-ND	2.41	2.01	1.74	PCS1100BTR-ND	804.00/M	ECG-C0JB100R
6.3	22	PCS1220JBCT-ND	2.92	2.44	2.11	PCS1220JBTR-ND	976.00/M	ECG-C0JB220R
6.3	33	PCS1330BCT-ND	3.56	2.97	2.57	PCS1330BTR-ND	1188.00/M	ECG-C0JB330R
8.0	15	PCS1150BCT-ND	2.92	2.44	2.11	PCS1150BTR-ND	976.00/M	ECG-C0KB150R
8.0	22	PCS1220BCT-ND	3.56	2.97	2.57	PCS1220BTR-ND	1188.00/M	ECG-C0KB220R
12.5	4.7	—	—	—	—	PCE2101TR-ND	1354.00/M	ECG-C1BA4R7R
16.0	4.7	PCS34R7BCT-ND	2.41	2.01	1.74	PCS34R7BTR-ND	804.00/M	ECG-C1CB4R7R
16.0	6.8	PCS36R8BCT-ND	2.92	2.44	2.11	PCS36R8BTR-ND	976.00/M	ECG-C1CB6R8R

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

nichicon VR Series Aluminum Electrolytic Capacitors (Radial Lead)

General Purpose 85°C

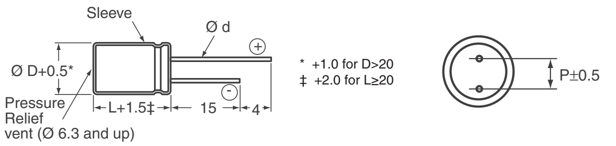

* +1.0 for D>20
‡ +2.0 for L≥20

FEATURES: • Radial lead standard type for general purpose • Miniature sized • Life: 2000 hours at 85°C

SPECIFICATIONS:

Temperature Range	-40°C ~ 85°C (6.3V ~ 400V), -25°C ~ 85°C (450V)
Capacitance Tolerance	±20% at 120Hz, 20°C

- **Leakage Current:**

Rated Voltage: 6.3V to 100V	Rated Voltage: 200V to 450V
After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.	After 1 minute application of rated voltage, CV ≤ 1000: I=0.1CV+40µA or less
After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.	After 1 minute application of rated voltage, CV > 1000: I=0.04CV+100µA or less

- **tan δ:** For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF.
Measurement frequency: 120Hz, Temperature: 20°C.

Rated Voltage (V)	6.3	10	16	25	35	50	63	100	200 to 315	350 to 450
tan δ (Max.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25

- **Stability at Low Temperature:** Measurement frequency: 120Hz

Rated Voltage (V)		6.3	10	16	25	35	50	63	100	200	250-350	400	450
Impedance Ratio ZT/Z20 Max.	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2	3	4	6	15
	Z-40°C/Z+20°C	12	10	8	5	4	3	3	3	4	8	10	—

- **Endurance:** After 2000 hours application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.
- **Shelf Life:** After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for endurance characteristics listed above.

Capacitance Change	Within ±20% of initial value
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

- **Marking:** Printed with white color letter on black sleeve.

Cap. (µF)	Leak-age Current (µA)	tan δ Max. @120Hz /20°C	Rated Ripple Cur. @120Hz /85°C (mA rms)	Dimensions (mm)				Digi-Key Part No.	Pricing		Nichicon Part No.
				ØD	L	P	Ød		1	10	
6.3 VDC Working Voltage											
22	3.00	0.28	65	5.0	11.0	2.0	0.5	493-1000-ND	.15	.99	UVR0J220MDD
33	3.00	0.28	80	5.0	11.0	2.0	0.5	493-1001-ND	.15	.99	UVR0J330MDD
47	3.00	0.28	95	5.0	11.0	2.0	0.5	493-1002-ND	.15	.99	UVR0J470MDD
100	6.30	0.28	135	5.0	11.0	2.0	0.5	493-1003-ND	.19	1.25	UVR0J101MDD
220	13.86	0.28	200	5.0	11.0	2.0	0.5	493-1004-ND	.23	1.51	UVR0J221MDD
330	20.79	0.28	270	6.3	11.0	2.5	0.5	493-1005-ND	.26	1.72	UVR0J331MED
470	29.61	0.28	320	6.3	11.0	2.5	0.5	493-1006-ND	.14	.94	UVR0J471MED
1000	63.00	0.28	540	8.0	11.5	3.5	0.6	493-1007-ND	.28	1.85	UVR0J102MPD
2200	138.60	0.30	1000	10.0	20.0	5.0	0.6	493-1008-ND	.39	2.73	UVR0J222MPD
3300	207.90	0.32	1190	10.0	20.0	5.0	0.6	493-1009-ND	.49	3.40	UVR0J332MPD
4700	296.10	0.34	1550	12.5	20.0	5.0	0.6	493-1010-ND	.71	5.15	UVR0J472MHD
6800	428.40	0.38	1920	12.5	25.0	5.0	0.6	493-1011-ND	1.00	7.26	UVR0J682MHD
10000	630.00	0.46	2350	16.0	25.0	7.5	0.8	493-1012-ND	1.16	8.91	UVR0J103MHD
15000	945.00	0.56	2850	16.0	35.5	7.5	0.8	493-1013-ND	1.35	10.41	UVR0J153MHD
22000	1386.00	0.70	3350	18.0	40.0	7.5	0.8	493-1014-ND	1.59	12.24	UVR0J223MHD
22000	1386.00	0.70	3200	22.0	30.0	10.0	1.0	493-1015-ND	1.59	12.24	UVR0J223MRD6
33000	2079.00	0.92	3900	22.0	50.0	10.0	1.0	493-1016-ND	3.61	27.32	UVR0J333MRD
33000	2079.00	0.92	3800	25.0	40.0	12.5	1.0	493-1017-ND	3.61	27.32	UVR0J333MRD6
10 VDC Working Voltage											
22	3.00	0.24	65	5.0	11.0	2.0	0.5	493-1018-ND	.15	.99	UVR1A220MDD
33	3.30	0.24	85	5.0	11.0	2.0	0.5	493-1019-ND	.15	.99	UVR1A330MDD
47	4.70	0.24	100	5.0	11.0	2.0	0.5	493-1020-ND	.11	.73	UVR1A470MDD
100	10.00	0.24	145	5.0	11.0	2.0	0.5	493-1021-ND	.11	.73	UVR1A101MDD
220	22.00	0.24	240	6.3	11.0	2.5	0.5	493-1022-ND	.15	.99	UVR1A221MED
330	33.00	0.24	290	6.3	11.0	2.5	0.5	493-1023-ND	.22	1.46	UVR1A331MED
470	47.00	0.24	350	6.3	11.0	2.5	0.5	493-1024-ND	.22	1.46	UVR1A471MED
1000	100.00	0.24	650	10.0	12.5	5.0	0.6	493-1025-ND	.32	2.20	UVR1A102MPD
2200	220.00	0.26	1100	10.0	20.0	5.0	0.6	493-1026-ND	.45	3.12	UVR1A222MPD
3300	330.00	0.28	1450	12.5	20.0	5.0	0.6	493-1027-ND	.66	4.77	UVR1A332MHD
4700	470.00	0.30	1800	12.5	25.0	5.0	0.6	493-1028-ND	.87	6.34	UVR1A472MHD
6800	680.00	0.34	2250	16.0	25.0	7.5	0.8	493-1029-ND	1.17	9.00	UVR1A682MHD
10000	1000.00	0.42	2700	16.0	35.5	7.5	0.8	493-1030-ND	1.35	10.41	UVR1A103MHD
15000	1500.00	0.52	3100	18.0	35.5	7.5	0.8	493-1031-ND	1.40	10.80	UVR1A153MHD
22000	2200.00	0.66	3700	20.0	40.0	10.0	1.0	493-1032-ND	1.96	14.84	UVR1A223MRD
22000	2200.00	0.66	3300	25.0	30.0	12.5	1.0	493-1033-ND	1.96	14.84	UVR1A223MRD6
33000	3300.00	0.88	4500	22.0	50.0	10.0	1.0	493-1034-ND	3.93	29.79	UVR1A333MRD
33000	3300.00	0.88	4800	25.0	40.0	12.5	1.0	493-1035-ND	3.93	29.79	UVR1A333MRD6
16 VDC Working Voltage											
10	3.00	0.20	50	5.0	11.0	2.0	0.5	493-1036-ND	.11	.73	UVR1C100MDD
22	3.52	0.20	75	5.0	11.0	2.0	0.5	493-1037-ND	.11	.73	UVR1C220MDD
33	5.28	0.20	90	5.0	11.0	2.0	0.5	493-1038-ND	.11	.73	UVR1C330MDD
47	7.52	0.20	110	5.0	11.0	2.0	0.5	493-1039-ND	.11	.73	UVR1C470MDD
100	16.00	0.20	160	5.0	11.0	2.0	0.5	493-1040-ND	.11	.73	UVR1C101MDD
220	35.20	0.20	260	6.3	11.0	2.5	0.5	493-1041-ND	.22	1.46	UVR1C221MED
330	52.80	0.20	370	8.0	11.5	3.5	0.6	493-1042-ND	.24	1.61	UVR1C331MPD
470	75.20	0.20	440	8.0	11.5	3.5	0.6	493-1043-ND	.28	1.85	UVR1C471MPD
1000	160.00	0.20	790	10.0	16.0	5.0	0.6	493-1044-ND	.42	2.94	UVR1C102MPD
2200	352.00	0.22	1300	12.5	20.0	5.0	0.6	493-1045-ND	.64	4.45	UVR1C222MHD
3300	528.00	0.24	1700	12.5	25.0	5.0	0. 6	493-1046-ND	.92	6.69	UVR1C332MHD
4700	752.00	0.26	2100	16.0	25.0	7.5	0.8	493-1047-ND	1.13	8.73	UVR1C472MHD
6800	1088.00	0.30	2650	16.0	35.5	7.5	0.8	493-1048-ND	1.31	10.04	UVR1C682MHD
10000	1600.00	0.38	2950	18.0	35.5	7.5	0.8	493-1049-ND	1.40	10.80	UVR1C103MHD
10000	1600.00	0.38	3000	20.0	31.0	10.0	1.0	493-1050-ND	1.40	10.80	UVR1C103MRD6
15000	2400.00	0.46	3400	20.0	40.0	10.0	1.0	493-1051-ND	2.02	15.32	UVR1C153MRD
15000	2400.00	0.46	3300	25.0	30.0	12.5	1.0	493-1052-ND	2.02	15.32	UVR1C153MRD6
22000	3520.00	0.58	4200	22.0	50.0	10.0	1.0	493-1053-ND	4.01	30.37	UVR1C223MRD
22000	3520.00	0.58	4000	25.0	40.0	12.5	1.0	493-1054-ND	4.01	30.37	UVR1C223MRD6
33000	5280.00	0.78	4800	25.0	50.0	12.5	1.0	493-1055-ND	4.47	33.87	UVR1C333MRD
25 VDC Working Voltage											
4.7	3.00	0.16	35	5.0	11.0	2.0	0.5	493-1056-ND	.11	.73	UVR1E4R7MDD
10	3.00	0.16	55	5.0	11.0	2.0	0.5	493-1057-ND	.11	.73	UVR1E100MDD
22	5.50	0.16	80	5.0	11.0	2.0	0.5	493-1058-ND	.11	.73	UVR1E220MDD
33	8.25	0.16	95	5.0	11.0	2.0	0.5	493-1059-ND	.11	.73	UVR1E330MDD
47	11.75	0.16	115	5.0	11.0	2.0	0.5	493-1060-ND	.11	.73	UVR1E470MDD
100	25.00	0.16	190	6.3	11.0	2.5	0.5	493-1061-ND	.15	.99	UVR1E101MED
220	55.00	0.16	330	8.0	11.5	3.5	0.6	493-1062-ND	.24	1.61	UVR1E221MPD
330	82.50	0.16	440	10.0	12.5	5.0	0.6	493-1063-ND	.28	1.85	UVR1E331MPD
470	117.50	0.16	550	10.0	12.5	5.0	0.6	493-1064-ND	.32	2.25	UVR1E471MPD
1000	250.00	0.16	960	10.0	20.0	5.0	0.6	493-1065-ND	.47	3.29	UVR1E102MPD
2200	550.00	0.18	1550	12.5	25.0	5.0	0.6	493-1066-ND	.92	6.69	UVR1E222MHD
3300	825.00	0.20	1980	16.0	25.0	7.5	0.8	493-1067-ND	1.09	8.42	UVR1E332MHD
4700	1175.00	0.22	2450	16.0	31.5	7.5	0.8	493-1068-ND	1.31	10.04	UVR1E472MHD
6800	1700.00	0.26	2900	18.0	35.5	7.5	0.8	493-1069-ND	1.62	12.48	UVR1E682MHD
6800	1700.00	0.26	2700	20.0	31.0	10.0	1.0	493-1070-ND	1.62	12.48	UVR1E682MRD6
10000	2500.00	0.34	3000	20.0	40.0	10.0	1.0	493-1071-ND	2.13	16.11	UVR1E103MRD
10000	2500.00	0.34	2900	25.0	30.0	12.5	1.0	493-1072-ND	2.13	16.11	UVR1E103MRD6
15000	3750.00	0.42	3800	22.0	50.0	10.0	1.0	493-1073-ND	4.01	30.37	UVR1E153MRD
15000	3750.00	0.42	3600	25.0	40.0	12.5	1.0	493-1074-ND	4.01	30.37	UVR1E153MRD6
22000	5500.00	0.54	4500	25.0	50.0	12.5	1.0	493-1075-ND	4.47	33.87	UVR1E223MRD
35 VDC Working Voltage											
4.7	3.00	0.14	40	5.0	11.0	2.0	0.5	493-1076-ND	.11	.73	UVR1V4R7MDD
10	3.50	0.14	60	5.0	11.0	2.0	0.5	493-1077-ND	.11	.73	UVR1V100MDD
22	7.70	0.14	90	5.0	11.0	2.0	0.5	493-1078-ND	.11	.73	UVR1V220MDD
33	11.55	0.14	105	5.0	11.0	2.0	0.5	493-1079-ND	.11	.73	UVR1V330MDD
47	16.45	0.14	130	5.0	11.0	2.0	0.5	493-1080-ND	.11	.73	UVR1V470MDD
100	35.00	0.14	210	6.3	11.0	2.5	0.5	493-1081-ND	.22	1.46	UVR1V101MED
220	77.00	0.14	385	10.0	12.5	5.0	0.6	493-1082-ND	.28	1.85	UVR1V221MPD
330	115.50	0.14	490	10.0	12.5	5.0	0.6	493-1083-ND	.32	2.25	UVR1V331MPD
470	164.50	0.14	650	10.0	16.0	5.0	0.6	493-1084-ND	.37	2.56	UVR1V471MPD
1000	350.00	0.14	1150	12.5	20.0	5.0	0.6	493-1085-ND	.69	4.99	UVR1V102MHD
2200	770.00	0.16	1800	16.0	25.0	7.5	0.8	493-1086-ND	.98	7.54	UVR1V222MHD
3300	1155.00	0.18	2280	16.0	35.5	7.5	0.8	493-1087-ND	1.31	10.04	UVR1V332MHD
4700	1645.00	0.20	2700	18.0	35.5	7.5	0.8	493-1088-ND	1.46	11.21	UVR1V472MHD
4700	1645.00	0.20	2700	20.0	31.0	10.0	1.0	493-1089-ND	1.51	11.61	UVR1V472MRD6
6800	2380.00	0.24	3000	20.0	40.0	10.0	1.0	493-1090-ND	2.02	15.32	UVR1V682MRD
6800	2380.00	0.24	2900	25.0	30.0	12.5	1.0	493-1091-ND	2.02	15.32	UVR1V682MRD6
10000	3500.00	0.32	3700	22.0	50.0	10.0	1.0	493-1092-ND	3.22	24.41	UVR1V103MRD
10000	3500.00	0.32	3600	25.0	40.0	12.5	1.0	493-1093-ND	3.22	24.41	UVR1V103MRD6
15000	5250.00	0.40	4300	25.0	50.0	12.5	1.0	493-1094-ND	4.47	33.87	UVR1V153MRD
50 VDC Working Voltage											
0.1	3.00	0.12	1.3	5.0	11.0	2.0	0.5	493-1095-ND	.11	.73	UVR1H0R1MDD
0.22	3.00	0.12	2.9	5.0	11.0	2.0	0.5	493-1096-ND	.15	.99	UVR1HR22MDD
0.33	3.00	0.12	4.3	5.0	11.0	2.0	0.5	493-1097-ND	.15	.99	UVR1HR33MDD
0.47	3.00	0.12	6.2	5.0	11.0	2.0	0.5	493-1098-ND	.11	.73	UVR1HR47MDD
1	3.00	0.12	17	5.0	11.0	2.0	0.5	493-1099-ND	.11	.73	UVR1H010MDD

(Continued)

nichicon VR Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Cap. (µF)	Leakage Current (µA)	tan δ Max. @120Hz /20°C	Rated Ripple Cur. @120Hz /85°C (mA rms)	Dimensions (mm)				Digi-Key Part No.	Pricing		Nichicon Part No.
				øD	L	P	ød		1	10	
2.2	3.00	0.12	28	5.0	11.0	2.0	0.5	493-1100-ND	.11	.73	UVR1H2R2MDD
3.3	3.00	0.12	35	5.0	11.0	2.0	0.5	493-1101-ND	.11	.73	UVR1H3R3MDD
4.7	3.00	0.12	40	5.0	11.0	2.0	0.5	493-1102-ND	.11	.73	UVR1H4R7MDD
10	5.00	0.12	60	5.0	11.0	2.0	0.5	493-1103-ND	.11	.73	UVR1H100MDD
22	11.00	0.12	95	5.0	11.0	2.0	0.5	493-1104-ND	.11	.73	UVR1H220MDD
33	16.50	0.12	125	5.0	11.0	2.0	0.5	493-1105-ND	.11	.73	UVR1H330MDD
47	23.50	0.12	155	6.3	11.0	2.5	0.5	493-1106-ND	.15	.99	UVR1H470MED
100	50.00	0.12	260	8.0	11.5	3.5	0.6	493-1107-ND	.24	1.61	UVR1H101MPD
220	110.00	0.12	430	10.0	12.5	5.0	0.6	493-1108-ND	.32	2.25	UVR1H221MPD
330	165.00	0.12	590	10.0	16.0	5.0	0.6	493-1109-ND	.37	2.56	UVR1H331MPD
470	235.00	0.12	760	12.5	20.0	5.0	0.6	493-1110-ND	.55	3.83	UVR1H471MHD
1000	500.00	0.12	1350	12.5	25.0	5.0	0.6	493-1111-ND	.76	5.55	UVR1H102MHD
2200	1100.00	0.14	2100	16.0	35.5	7.5	0.8	493-1112-ND	1.31	10.04	UVR1H222MHD
3300	1650.00	0.16	2500	18.0	35.5	7.5	0.8	493-1113-ND	1.57	12.05	UVR1H332MHD
3300	1650.00	0.16	2450	22.0	30.0	10.0	1.0	493-1114-ND	1.62	12.48	UVR1H332MRD6
4700	2350.00	0.18	2900	20.0	40.0	10.0	1.0	493-1115-ND	2.45	18.52	UVR1H472MRD
4700	2350.00	0.18	2900	25.0	30.0	12.5	1.0	493-1116-ND	2.53	19.19	UVR1H472MRD6
6800	3400.00	0.22	3500	22.0	50.0	10.0	1.0	493-1117-ND	3.22	24.41	UVR1H682MRD
6800	3400.00	0.22	3300	25.0	40.0	12.5	1.0	493-1118-ND	3.22	24.41	UVR1H682MRD6
10000	5000.00	0.30	4000	25.0	50.0	12.5	1.0	493-1119-ND	4.47	33.87	UVR1H103MRD
63 VDC Working Voltage											
10	6.30	0.10	65	5.0	11.0	2.0	0.5	493-1120-ND	.11	.73	UVR1J100MDD
22	13.86	0.10	100	5.0	11.0	2.0	0.5	493-1121-ND	.11	.73	UVR1J220MDD
33	20.79	0.10	140	6.3	11.0	2.5	0.5	493-1122-ND	.15	.99	UVR1J330MED
47	29.61	0.10	170	6.3	11.0	2.5	0.5	493-1123-ND	.22	1.46	UVR1J470MED
100	63.00	0.10	300	10.0	12.5	5.0	0.6	493-1124-ND	.28	1.85	UVR1J101MPD
220	138.60	0.10	490	10.0	16.0	5.0	0.6	493-1125-ND	.37	2.56	UVR1J221MPD
330	207.90	0.10	710	10.0	20.0	5.0	0.6	493-1126-ND	.52	3.65	UVR1J331MPD
470	296.10	0.10	900	12.5	20.0	5.0	0.6	493-1127-ND	.63	4.61	UVR1J471MHD
1000	630.00	0.10	1300	16.0	25.0	7.5	0.8	493-1129-ND	1.08	7.88	UVR1J102MHD
2200	1386.00	0.12	2300	18.0	35.5	7.5	0.8	493-1130-ND	1.47	11.27	UVR1J222MHD
3300	2079.00	0.14	2700	20.0	40.0	10.0	1.0	493-1131-ND	2.50	18.95	UVR1J332MRD
3300	2079.00	0.14	2600	25.0	30.0	12.5	1.0	493-1132-ND	2.50	18.95	UVR1J332MRD6
4700	2961.00	0.16	3400	22.0	50.0	10.0	1.0	493-1133-ND	3.19	24.17	UVR1J472MRD
4700	2961.00	0.16	3200	25.0	40.0	12.5	1.0	493-1134-ND	3.19	24.17	UVR1J472MRD6
6800	4284.00	0.20	3900	25.0	50.0	12.5	1.0	493-1135-ND	4.32	32.67	UVR1J682MRD
100 VDC Working Voltage											
0.1	3.00	0.08	2.1	5.0	11.0	2.0	0.5	493-1136-ND	.15	.99	UVR2A0R1MDD
0.22	3.00	0.08	4.7	5.0	11.0	2.0	0.5	493-1137-ND	.15	.99	UVR2AR22MDD
0.33	3.00	0.08	7	5.0	11.0	2.0	0.5	493-1138-ND	.15	.99	UVR2AR33MDD
0.47	3.00	0.08	10	5.0	11.0	2.0	0.5	493-1139-ND	.15	.99	UVR2AR47MDD
1	3.00	0.08	21	5.0	11.0	2.0	0.5	493-1140-ND	.11	.73	UVR2A010MDD
2.2	3.00	0.08	30	5.0	11.0	2.0	0.5	493-1141-ND	.11	.73	UVR2A2R2MDD
3.3	3.30	0.08	40	5.0	11.0	2.0	0.5	493-1142-ND	.19	1.25	UVR2A3R3MDD
4.7	4.70	0.08	45	5.0	11.0	2.0	0.5	493-1143-ND	.11	.73	UVR2A4R7MDD
10	10.00	0.08	75	6.3	11.0	2.5	0.5	493-1144-ND	.15	.99	UVR2A100MED
22	22.00	0.08	130	6.3	11.0	2.5	0.5	493-1145-ND	.22	1.46	UVR2A220MED
33	33.00	0.08	180	8.0	11.5	3.5	0.6	493-1146-ND	.29	2.00	UVR2A330MPD
47	47.00	0.08	230	10.0	12.5	5.0	0.6	493-1147-ND	.32	2.24	UVR2A470MPD
100	100.00	0.08	370	10.0	20.0	5.0	0.6	493-1148-ND	.45	3.15	UVR2A101MPD
220	220.00	0.08	620	12.5	25.0	5.0	0.6	493-1149-ND	.71	5.15	UVR2A221MHD
330	330.00	0.08	760	12.5	25.0	5.0	0.6	493-1150-ND	.79	5.76	UVR2A331MHD
470	470.00	0.08	1000	16.0	25.0	7.5	0.8	493-1151-ND	.99	7.65	UVR2A471MHD
1000	1000.00	0.08	1380	18.0	40.0	7.5	0.8	493-1152-ND	1.35	10.41	UVR2A102MHD
2200	2200.00	0.10	2400	22.0	50.0	10.0	1.0	493-1153-ND	3.36	25.41	UVR2A222MRD
2200	2200.00	0.10	2400	25.0	40.0	12.5	1.0	493-1154-ND	3.36	25.41	UVR2A222MRD6
3300	3300.00	0.12	2900	25.0	50.0	12.5	1.0	493-1155-ND	3.50	26.50	UVR2A332MRD
0.47	47.52	0.20	15	6.3	11.0	2.5	0.5	493-1156-ND	.20	1.30	UVR2CR47MED
1	56	0.20	22	6.3	11.0	2.5	0.5	493-1157-ND	.20	1.30	UVR2C010MED
2.2	75.2	0.20	33	6.3	11.0	2.5	0.5	493-1158-ND	.25	1.66	UVR2C2R2MED
3.3	92.8	0.20	40	6.3	11.0	2.5	0.5	493-1159-ND	.23	1.60	UVR2C3R3MED
4.7	115.2	0.20	50	6.3	11.0	2.5	0.5	493-1160-ND	.23	1.56	UVR2C4R7MED
10	200	0.20	80	8.0	11.5	3.5	0.6	493-1161-ND	.24	1.68	UVR2C100MPD
22	392	0.20	155	10.0	16.0	5.0	0.6	493-1162-ND	.33	2.27	UVR2C220MPD
33	568	0.20	205	10.0	20.0	5.0	0.6	493-1163-ND	.45	3.15	UVR2C330MPD
47	792	0.20	270	12.5	20.0	5.0	0.6	493-1164-ND	.54	3.76	UVR2C470MHD
100	1640	0.20	430	12.5	25.0	5.0	0.6	493-1165-ND	.74	5.37	UVR2C101MHD
220	3560	0.20	800	16.0	35.5	7.5	0.8	493-1166-ND	1.16	8.94	UVR2C221MHD
330	5320	0.20	940	18.0	40.0	7.5	0.8	493-1167-ND	1.49	11.46	UVR2C331MHD
330	5320	0.20	900	22.0	30.0	10.0	1.0	493-1168-ND	1.49	11.46	UVR2C331MRD6
470	7560	0.20	1410	22.0	40.0	10.0	1.0	493-1169-ND	2.30	17.41	UVR2C471MRD
470	7560	0.20	1290	25.0	30.0	12.5	1.0	493-1170-ND	2.30	17.41	UVR2C471MRD6
1000	16040	0.20	1900	25.0	50.0	12.5	1.0	493-1171-ND	2.96	22.45	UVR2C102MRD
200 VDC Working Voltage											
0.47	49.4	0.20	15	6.3	11.0	2.5	0.5	493-1172-ND	.23	1.56	UVR2DR47MED
1	60	0.20	22	6.3	11.0	2.5	0.5	493-1173-ND	.23	1.56	UVR2D010MED
2.2	84	0.20	33	6.3	11.0	2.5	0.5	493-1174-ND	.27	1.77	UVR2D2R2MED
3.3	106	0.20	40	6.3	11.0	2.5	0.5	493-1175-ND	.24	1.64	UVR2D3R3MED
4.7	134	0.20	55	8.0	11.5	3.5	0.6	493-1176-ND	.29	2.04	UVR2D4R7MPD
10	240	0.20	95	10.0	12.5	5.0	0.6	493-1177-ND	.35	2.46	UVR2D100MPD
22	480	0.20	170	10.0	20.0	5.0	0.6	493-1178-ND	.47	3.26	UVR2D220MPD
33	700	0.20	230	12.5	20.0	5.0	0.6	493-1179-ND	.56	3.89	UVR2D330MHD
47	980	0.20	270	12.5	20.0	5.0	0.6	493-1180-ND	.54	3.76	UVR2D470MHD
100	2040	0.20	530	16.0	31.5	7.5	0.8	493-1181-ND	1.09	8.39	UVR2D101MHD
220	4440	0.20	810	18.0	35.5	7.5	0.8	493-1182-ND	1.38	10.65	UVR2D221MHD
330	6640	0.20	1130	20.0	40.0	10.0	1.0	493-1183-ND	2.42	18.34	UVR2D331MRD
330	6640	0.20	1090	25.0	30.0	12.5	1.0	493-1184-ND	2.42	18.34	UVR2D331MRD6
470	9440	0.20	1490	22.0	50.0	10.0	1.0	493-1185-ND	2.96	22.45	UVR2D471MRD
470	9440	0.20	1550	25.0	40.0	12.5	1.0	493-1186-ND	2.96	22.45	UVR2D471MRD6
250 VDC Working Voltage											
0.47	51.75	0.20	15	6.3	11.0	2.5	0.5	493-1187-ND	.24	1.61	1UVR2ER47MED
1	65	0.20	22	6.3	11.0	2.5	0.5	493-1188-ND	.24	1.61	UVR2E010MED
2.2	95	0.20	33	6.3	11.0	2.5	0.5	493-1189-ND	.22	1.46	UVR2E2R2MED
3.3	122.5	0.20	46	8.0	11.5	3.5	0.6	493-1190-ND	.24	1.64	UVR2E3R3MPD
4.7	157.5	0.20	55	8.0	11.5	3.5	0.6	493-1191-ND	.29	2.04	UVR2E4R7MPD
10	290	0.20	105	10.0	16.0	5.0	0.6	493-1192-ND	.34	2.35	UVR2E100MPD
22	590	0.20	190	12.5	20.0	5.0	0.6	493-1193-ND	.47	3.29	UVR2E220MHD
33	865	0.20	230	12.5	20.0	5.0	0.6	493-1194-ND	.56	3.89	UVR2E330MHD
47	1215	0.20	300	12.5	25.0	5.0	0.6	493-1195-ND	.77	5.57	UVR2E470MHD
100	2540	0.20	520	16.0	31.5	7.5	0.8	493-1196-ND	1.23	9.45	UVR2E101MHD
220	5540	0.20	740	20.0	40.0	10.0	1.0	493-1197-ND	2.69	20.38	UVR2E221MRD
220	5540	0.20	820	22.0	30.0	10.0	1.0	493-1198-ND	2.69	20.38	UVR2E221MRD6
330	8290	0.20	1170	22.0	50.0	10.0	1.0	493-1199-ND	2.88	21.78	UVR2E331MRD
330	8290	0.20	970	25.0	30.0	12.5	1.0	493-1200-ND	2.88	21.78	UVR2E331MRD6
470	11790	0.20	1600	25.0	50.0	12.5	1.0	493-1201-ND	3.66	27.75	UVR2E471MRD
315 VDC Working Voltage											
1	71.5	0.20	22	6.3	11.0	2.5	0.5	493-1202-ND	.27	1.77	UVR2F010MED
2.2	109.3	0.20	33	8.0	11.5	3.5	0.6	493-1203-ND	.26	1.80	UVR2F2R2MPD
3.3	143.95	0.20	55	10.0	12.5	5.0	0.6	493-1204-ND	.34	2.36	UVR2F3R3MPD
4.7	188.05	0.20	65	10.0	12.5	5.0	0.6	493-1205-ND	.39	2.68	UVR2F4R7MPD
10	355	0.20	115	10.0	20.0	5.0	0.6	493-1206-ND	.44	3.05	UVR2F100MPD
22	733	0.20	190	12.5	20.0	5.0	0.6	493-1207-ND	.56	3.89	UVR2F220MHD
33	1079.5	0.20	275	16.0	25.0	7.5	0.8	493-1208-ND	.89	6.46	UVR2F330MHD
47	1520.5	0.20	340	16.0	25.0	7.5	0.8	493-1209-ND	1.00	7.68	UVR2F470MHD
100	3190	0.20	560	18.0	35.5	7.5	0.8	493-1210-ND	1.28	9.84	UVR2F101MHD
220	6970	0.20	850	22.0	50.0	10.0	1.0	493-1211-ND	3.64	27.56	UVR2F221MRD
220	6970	0.20	770	25.0	30.0	12.5	1.0	493-1212-ND	3.64	27.56	UVR2F221MRD6
330	10435	0.20	1250	25.0	50.0	12.5	1.0	493-1213-ND	4.15	31.46	UVR2F331MRD
350 VDC Working Voltage											
1	75	0.25	22	6.3	11.0	2.5	0.5	493-1214-ND	.27	1.77	UVR2V010MED
2.2	117	0.25	38	8.0	11.5	3.5	0.6	493-1215-ND	.25	1.72	UVR2V2R2MPD
3.3	155.5	0.25	55	10.0	12.5	5.0	0.6	493-1216-ND	.35	2.44	UVR2V3R3MPD
4.7	204.5	0.25	65	10.0	12.5	5.0	0.6	493-1217-ND	.35	2.44	UVR2V4R7MPD
10	390	0.25	115	10.0	20.0	5.0	0.6	493-1218-ND	.44	3.05	UVR2V100MPD
22	810	0.25	200	12.5	25.0	5.0	0.6	493-1219-ND	.54	3.78	UVR2V220MHD
33	1195	0.25	275	16.0	25.0	7.5	0.8	493-1220-ND	.86	6.24	UVR2V330MHD
47	1685	0.25	380	16.0	35.5	7.5	0.8	493-1221-ND	1.24	9.51	UVR2V470MHD
100	3540	0.25	590	18.0	40.0	7.5	0.8	493-1222-ND	1.44	11.10	UVR2V101MHD
100	3540	0.25	570	22.0	30.0	10.0	1.0	493-1223-ND	1.44	11.10	UVR2V101MRD6
220	7740	0.25	850	22.0	50.0	10.0	1.0	493-1224-ND	4.15	31.46	UVR2V221MRD
220	7740	0.25	890	25.0	40.0	12.5	1.0	493-1225-ND	4.15	31.46	UVR2V221MRD6
400 VDC Working Voltage											
1	80	0.25	25	8.0	11.5	3.5	0.6	493-1226-ND	.30	2.03	UVR2G010MPD
2.2	128	0.25	45	10.0	12.5	5.0	0.6	493-1227-ND	.33	2.28	UVR2G2R2MPD
3.3	172	0.25	55	10.0	12.5	5.0	0.6	493-1228-ND	.35	2.44	UVR2G3R3MPD
4.7	228	0.25	70	10.0	16.0	5.0	0.6	493-1229-ND	.36	2.49	UVR2G4R7MPD
10	440	0.25	130	12.5	20.0	5.0	0.6	493-1230-ND	.50	3.47	UVR2G100MHD
22	920	0.25	240	16.0	25.0	7.5	0.8	493-1231-ND	.86	6.24	UVR2G220MHD
33	1360	0.25	300	16.0	31.5	7.5	0.8	493-1232-ND	1.02	7.83	UVR2G330MHD
47	1920	0.25	370	16.0	35.5	7.5	0.8	493-1233-ND	1.34	10.32	UVR2G470MHD
100	4040	0.25	550	20.0	40.0	10.0	1.0	493-1234-ND	2.73	20.70	UVR2G101MRD
100	4040	0.25	530	25.0	30.0	12.5	1.0	493-1235-ND	2.73	20.70	UVR2G101MRD6
220	8840	0.25	750	25.0	50.0	12.5	1.0	493-1236-ND	4.53	34.29	UVR2G221MRD
450 VDC Working Voltage											
1	85	0.25	23	8.0	11.5	3.5	0.6	493-1237-ND	.30	2.03	UVR2W010MPD
2.2	139	0.25	35	10.0	12.5	5.0	0.6	493-1238-ND	.35	2.44	UVR2W2R2MPD
3.3	188.5	0.25	45	10.0	16.0	5.0	0.6	493-1239-ND	.35	2.44	UVR2W3R3MPD
4.7	251.5	0.25	55	10.0	20.0	5.0	0.6	493-1240-ND	.44	3.05	UVR2W4R7MPD
10	490	0.25	90	12.5	20.0	5.0	0.6	493-1241-ND	.54	3.78	UVR2W100MHD
22	1030	0.25	165	16.0	25.0	7.5	0.8	493-1242-ND	.86	6.24	UVR2W220MHD
33	1525	0.25	230	16.0	35.5	7.5	0.8	493-1243-ND	1.34	10.32	UVR2W330MHD
47	2155	0.25	300	18.0	40.0	7.5	0.8	493-1244-ND	1.63	12.51	UVR2W470MHD
47	2155	0.25	290	22.0	30.0	10.0	1.0	493-1245-ND	1.63	12.51	UVR2W470MRD6
100	4540	0.25	350	22.0	40.0	10.0	1.0	493-1246-ND	3.27	24.72	UVR2W101MRD

nichicon VZ Series Aluminum Electrolytic Capacitors (Radial Lead)

General Purpose 105°C

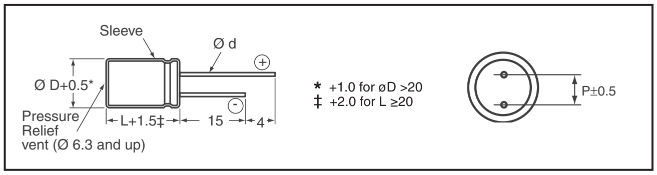

FEATURES: • Radial lead standard type for general purpose • Small case size • Wide temperature range • Life: 1000 hours at 105°C

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C (6.3 ~ 100V), -40°C ~ 105°C (160 ~ 400V), -25°C ~ 105°C (450V)
Capacitance Tolerance	±20% at 120Hz, 20°C

- **Leakage Current:**

Rated Voltage: 6.3 to 100	Rated Voltage: 160 to 450
After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.	After 1 minute application of rated voltage, CV ≤ 1000: I=0.1CV+40 (µA) or less.
After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.	After 1 minutes application of rated voltage, CV > 1000: I=0.04CV+100 (µA) or less.

- **tan δ:** For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency: 120Hz, Temperature: 20°C.

Rated Volt. (V)	6.3	10	16	25	35	50	63	100	160 to 315	350 to 450
tan δ (Max.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25

- **Stability at Low Temperature:** Measurement frequency: 120Hz

Rated Voltage (V)		6.3	10	16	25	35	50	63	100	160 - 200	250 - 350	400	450
Impedance ratio ZT/Z20 (Max.)	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2	3	4	6	15
	Z-40°C/Z+20°C	10	8	6	4	3	3	3	3	4	8	10	—

- **Endurance:** After 1000 hours application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.
- **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.

Capacitance Change	Within ±20% of initial value
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

- **Marking:** Printed with white color letter on black sleeve.

Cap. (µF)	Leakage Current (µA)	tan δ Max. @120Hz /20°C	Rated Ripple Cur. @120Hz /105°C (mA) rms	Dimensions (mm) øD	L	P	ød	Digi-Key Part No.	Pricing 1	10	Nichicon Part No.
6.3 VDC Rated Voltage											
22	3.00	0.28	45	5.0	11.0	2.0	0.5	493-1247-ND	.20	1.35	UVZ0J220MDD
33	3.00	0.28	55	5.0	11.0	2.0	0.5	493-1248-ND	.20	1.35	UVZ0J330MDD
47	3.00	0.28	65	5.0	11.0	2.0	0.5	493-1249-ND	.20	1.35	UVZ0J470MDD
100	6.30	0.28	95	5.0	11.0	2.0	0.5	493-1250-ND	.25	1.66	UVZ0J101MDD
220	13.86	0.28	145	5.0	11.0	2.0	0.5	493-1251-ND	.30	1.98	UVZ0J221MDD
330	20.79	0.28	195	6.3	11.0	2.5	0.5	493-1252-ND	.25	1.76	UVZ0J331MED
470	29.61	0.28	230	6.3	11.0	2.5	0.5	493-1253-ND	.26	1.84	UVZ0J471MED
1000	63.00	0.28	390	8.0	11.5	3.5	0.6	493-1254-ND	.25	1.66	UVZ0J102MPD
2200	138.60	0.30	710	10.0	20.0	5.0	0.6	493-1255-ND	.55	3.82	UVZ0J222MPD
3300	207.90	0.32	840	10.0	20.0	5.0	0.6	493-1256-ND	.61	4.27	UVZ0J332MPD
4700	296.10	0.34	1090	12.5	20.0	5.0	0.6	493-1257-ND	.85	6.18	UVZ0J472MHD
6800	428.40	0.38	1350	12.5	25.0	5.0	0.6	493-1258-ND	1.05	8.10	UVZ0J682MHD
10000	630.00	0.46	1650	16.0	25.0	7.5	0.8	493-1259-ND	1.38	10.62	UVZ0J103MHD
15000	945.00	0.56	2010	16.0	35.5	7.5	0.8	493-1260-ND	1.82	13.98	UVZ0J153MHD
22000	1386.00	0.70	2350	18.0	40.0	7.5	0.8	493-1261-ND	1.92	14.55	UVZ0J223MHD
33000	2079.00	0.92	2800	22.0	50.0	10.0	1.0	493-1262-ND	3.56	26.92	UVZ0J333MRD
10 VDC Rated Voltage											
22	3.00	0.24	45	5.0	11.0	2.0	0.5	493-1263-ND	.20	1.35	UVZ1A220MDD
33	3.30	0.24	58	5.0	11.0	2.0	0.5	493-1264-ND	.20	1.35	UVZ1A330MDD
47	4.70	0.24	68	5.0	11.0	2.0	0.5	493-1265-ND	.20	1.35	UVZ1A470MDD
100	10.00	0.24	105	5.0	11.0	2.0	0.5	493-1266-ND	.25	1.66	UVZ1A101MDD
220	22.00	0.24	175	6.3	11.0	2.5	0.5	493-1267-ND	.25	1.76	UVZ1A221MED
330	33.00	0.24	210	6.3	11.0	2.5	0.5	493-1268-ND	.26	1.84	UVZ1A331MED
470	47.00	0.24	250	6.3	11.0	2.5	0.5	493-1269-ND	.36	2.48	UVZ1A471MED
1000	100.00	0.24	460	10.0	12.5	5.0	0.6	493-1270-ND	.44	3.05	UVZ1A102MPD
2200	220.00	0.26	760	10.0	20.0	5.0	0.6	493-1271-ND	.61	4.27	UVZ1A222MPD
3300	330.00	0.28	1000	12.5	20.0	5.0	0.6	493-1272-ND	.78	5.70	UVZ1A332MHD
4700	470.00	0.30	1260	12.5	25.0	5.0	0.6	493-1273-ND	1.04	7.55	UVZ1A472MHD
6800	680.00	0.34	1570	16.0	25.0	7.5	0.8	493-1274-ND	1.39	10.71	UVZ1A682MHD
10000	1000.00	0.42	1890	16.0	35.5	7.5	0.8	493-1275-ND	1.82	13.98	UVZ1A103MHD
15000	1500.00	0.52	2180	18.0	35.5	7.5	0.8	493-1276-ND	1.93	14.88	UVZ1A153MHD
22000	2200.00	0.66	2650	20.0	40.0	10.0	1.0	493-1277-ND	2.49	18.87	UVZ1A223MRD
33000	3300.00	0.88	3250	22.0	50.0	10.0	1.0	493-1278-ND	3.95	29.89	UVZ1A333MRD
16 VDC Rated Voltage											
10	3.00	0.20	35	5.0	11.0	2.0	0.5	493-1279-ND	.20	1.35	UVZ1C100MDD
22	3.52	0.20	54	5.0	11.0	2.0	0.5	493-1280-ND	.20	1.35	UVZ1C220MDD
33	5.28	0.20	65	5.0	11.0	2.0	0.5	493-1281-ND	.20	1.35	UVZ1C330MDD
47	7.52	0.20	79	5.0	11.0	2.0	0.5	493-1282-ND	.13	.88	UVZ1C470MDD
100	16.00	0.20	115	5.0	11.0	2.0	0.5	493-1283-ND	.14	.94	UVZ1C101MDD
220	35.20	0.20	190	6.3	11.0	2.5	0.5	493-1284-ND	.24	1.61	UVZ1C221MED
330	52.80	0.20	265	8.0	11.5	3.5	0.6	493-1285-ND	.36	2.48	UVZ1C331MPD
470	75.20	0.20	315	8.0	11.5	3.5	0.6	493-1286-ND	.29	1.96	UVZ1C471MPD
1000	160.00	0.20	560	10.0	16.0	5.0	0.6	493-1287-ND	.53	3.68	UVZ1C102MPD
2200	352.00	0.22	920	12.5	20.0	5.0	0.6	493-1288-ND	.79	5.73	UVZ1C222MHD
3300	528.00	0.24	1170	12.5	25.0	5.0	0.6	493-1289-ND	1.01	7.74	UVZ1C332MHD
4700	752.00	0.26	1480	16.0	25.0	7.5	0.8	493-1290-ND	1.35	10.41	UVZ1C472MHD
6800	1088.00	0.30	1780	16.0	35.5	7.5	0.8	493-1291-ND	1.82	13.98	UVZ1C682MHD
10000	1600.00	0.38	2060	18.0	35.5	7.5	0.8	493-1292-ND	1.93	14.88	UVZ1C103MHD
15000	2400.00	0.48	2430	20.0	40.0	10.0	1.0	493-1293-ND	2.49	18.87	UVZ1C153MRD
22000	3520.00	0.62	3000	22.0	50.0	10.0	1.0	493-1294-ND	3.95	29.89	UVZ1C223MRD
33000	5280.00	0.84	3450	25.0	50.0	12.5	1.0	493-1295-ND	5.48	41.47	UVZ1C333MRD
25 VDC Rated Voltage											
4.7	3.00	0.16	25	5.0	11.0	2.0	0.5	493-1296-ND	.20	1.35	UVZ1E4R7MDD
10	3.00	0.16	36	5.0	11.0	2.0	0.5	493-1297-ND	.17	1.14	UVZ1E100MDD
22	5.50	0.16	58	5.0	11.0	2.0	0.5	493-1298-ND	.13	.88	UVZ1E220MDD
33	8.25	0.16	68	5.0	11.0	2.0	0.5	493-1299-ND	.25	1.66	UVZ1E330MDD
47	11.75	0.16	83	5.0	11.0	2.0	0.5	493-1300-ND	.14	.94	UVZ1E470MDD
100	25.00	0.16	140	6.3	11.0	2.5	0.5	493-1301-ND	.19	1.25	UVZ1E101MED
220	55.00	0.16	240	8.0	11.5	3.5	0.6	493-1302-ND	.24	1.61	UVZ1E221MPD
330	82.50	0.16	315	10.0	12.5	5.0	0.6	493-1303-ND	.33	2.32	UVZ1E331MPD
470	117.50	0.16	380	10.0	12.5	5.0	0.6	493-1304-ND	.29	2.02	UVZ1E471MPD
1000	250.00	0.16	680	10.0	20.0	5.0	0.6	493-1305-ND	.52	3.65	UVZ1E102MPD
2200	550.00	0.18	1090	12.5	25.0	5.0	0.6	493-1306-ND	1.01	7.74	UVZ1E222MHD
3300	825.00	0.20	1400	16.0	25.0	7.5	0.8	493-1307-ND	.92	6.72	UVZ1E332MHD
4700	1175.00	0.22	1710	16.0	31.5	7.5	0.8	493-1308-ND	1.09	7.90	UVZ1E472MHD
6800	1700.00	0.26	2040	18.0	35.5	7.5	0.8	493-1309-ND	1.92	14.55	UVZ1E682MHD
10000	2500.00	0.34	2150	20.0	40.0	10.0	1.0	493-1310-ND	3.12	23.61	UVZ1E103MRD
15000	3750.00	0.44	2750	22.0	50.0	10.0	1.0	493-1311-ND	3.95	29.89	UVZ1E153MRD
22000	5500.00	0.58	3250	25.0	50.0	12.5	1.0	493-1312-ND	5.48	41.47	UVZ1E223MRD
35 VDC Rated Voltage											
4.7	3.00	0.14	28	5.0	11.0	2.0	0.5	493-1313-ND	.20	1.35	UVZ1V4R7MDD
10	3.50	0.14	41	5.0	11.0	2.0	0.5	493-1314-ND	.17	1.14	UVZ1V100MDD
22	7.70	0.14	61	5.0	11.0	2.0	0.5	493-1315-ND	.13	.88	UVZ1V220MDD
33	11.55	0.14	75	5.0	11.0	2.0	0.5	493-1316-ND	.30	1.98	UVZ1V330MDD
47	16.45	0.14	93	5.0	11.0	2.0	0.5	493-1317-ND	.14	.94	UVZ1V470MDD
100	35.00	0.14	150	6.3	11.0	2.5	0.5	493-1318-ND	.24	1.61	UVZ1V101MED
220	77.00	0.14	275	10.0	12.5	5.0	0.6	493-1319-ND	.30	2.03	UVZ1V221MPD
330	115.50	0.14	350	10.0	12.5	5.0	0.6	493-1320-ND	.39	2.72	UVZ1V331MPD
470	164.50	0.14	460	10.0	16.0	5.0	0.6	493-1321-ND	.40	2.80	UVZ1V471MPD
1000	350.00	0.14	810	12.5	20.0	5.0	0.6	493-1322-ND	.79	5.73	UVZ1V102MHD
2200	770.00	0.16	1260	16.0	25.0	7.5	0.8	493-1323-ND	.79	5.73	UVZ1V222MHD
3300	1155.00	0.18	1610	16.0	35.5	7.5	0.8	493-1324-ND	1.82	13.98	UVZ1V332MHD
4700	1645.00	0.20	1910	18.0	35.5	7.5	0.8	493-1325-ND	1.94	14.91	UVZ1V472MHD
6800	2380.00	0.24	2150	20.0	40.0	10.0	1.0	493-1326-ND	2.49	18.87	UVZ1V682MRD
10000	3500.00	0.32	2650	22.0	50.0	10.0	1.0	493-1327-ND	3.95	29.89	UVZ1V103MRD
15000	4200.00	0.36	3100	25.0	50.0	12.5	1.0	493-1328-ND	5.76	43.62	UVZ1V153MRD
50 VDC Rated Voltage											
0.1	3.00	0.12	1.3	5.0	11.0	2.0	0.5	493-1329-ND	.20	1.35	UVZ1H0R1MDD
0.22	3.00	0.12	2.9	5.0	11.0	2.0	0.5	493-1330-ND	.20	1.35	UVZ1HR22MDD
0.33	3.00	0.12	4.3	5.0	11.0	2.0	0.5	493-1331-ND	.20	1.35	UVZ1HR33MDD
0.47	3.00	0.12	7	5.0	11.0	2.0	0.5	493-1332-ND	.20	1.35	UVZ1HR47MDD
1	3.00	0.12	13	5.0	11.0	2.0	0.5	493-1333-ND	.13	.88	UVZ1H010MDD
2.2	3.00	0.12	20	5.0	11.0	2.0	0.5	493-1334-ND	.13	.88	UVZ1H2R2MDD
3.3	3.00	0.12	25	5.0	11.0	2.0	0.5	493-1335-ND	.20	1.35	UVZ1H3R3MDD
4.7	3.00	0.12	30	5.0	11.0	2.0	0.5	493-1336-ND	.13	.88	UVZ1H4R7MDD
10	5.00	0.12	46	5.0	11.0	2.0	0.5	493-1337-ND	.13	.88	UVZ1H100MDD
22	11.00	0.12	68	5.0	11.0	2.0	0.5	493-1338-ND	.14	.94	UVZ1H220MDD
33	16.50	0.12	90	5.0	11.0	2.0	0.5	493-1339-ND	.24	1.64	UVZ1H330MDD

(Continued)

nichicon **VZ Series** Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Cap. (µF)	Leakage Current (µA)	tan δ Max. @120Hz /20°C	Rated Ripple Cur. @120Hz /105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing		Nichicon Part No.
				øD	L	P	ød		1	10	
47	23.50	0.12	115	6.3	11.0	2.5	0.5	493-1340-ND	.16	1.09	UVZ1H470MED
100	50.00	0.12	190	8.0	11.5	3.5	0.6	493-1341-ND	.24	1.61	UVZ1H101MPD
220	110.00	0.12	300	10.0	12.5	5.0	0.6	493-1342-ND	.36	2.48	UVZ1H221MPD
330	165.00	0.12	410	10.0	16.0	5.0	0.6	493-1343-ND	.46	3.19	UVZ1H331MPD
470	235.00	0.12	530	12.5	20.0	5.0	0.6	493-1344-ND	.57	4.16	UVZ1H471MHD
1000	500.00	0.12	950	12.5	25.0	5.0	0.6	493-1345-ND	.72	5.24	UVZ1H102MHD
2200	1100.00	0.14	1470	16.0	35.5	7.5	0.8	493-1346-ND	1.82	13.98	UVZ1H222MHD
3300	1650.00	0.16	1770	18.0	35.5	7.5	0.8	493-1347-ND	1.96	14.84	UVZ1H332MHD
4700	2350.00	0.18	2100	20.0	40.0	10.0	1.0	493-1348-ND	3.12	23.61	UVZ1H472MRD
6800	3400.00	0.22	2500	22.0	50.0	10.0	1.0	493-1349-ND	3.95	29.89	UVZ1H682MRD
10000	5000.00	0.30	2850	25.0	50.0	12.5	1.0	493-1350-ND	5.48	41.47	UVZ1H103MRD
63 VDC Rated Voltage											
10	6.30	0.10	46	5.0	11.0	2.0	0.5	493-1351-ND	.25	1.66	UVZ1J100MDD
22	13.86	0.10	71	5.0	11.0	2.0	0.5	493-1352-ND	.24	1.64	UVZ1J220MDD
33	20.79	0.10	100	6.3	11.0	2.5	0.5	493-1353-ND	.25	1.76	UVZ1J330MED
47	29.61	0.10	120	6.3	11.0	2.5	0.5	493-1354-ND	.27	1.88	UVZ1J470MED
100	63.00	0.10	215	10.0	12.5	5.0	0.6	493-1355-ND	.36	2.48	UVZ1J101MPD
220	138.60	0.10	335	10.0	16.0	5.0	0.6	493-1356-ND	.60	4.17	UVZ1J221MPD
330	207.90	0.10	510	10.0	20.0	5.0	0.6	493-1357-ND	.59	4.32	UVZ1J331MPD
470	296.10	0.10	640	12.5	20.0	5.0	0.6	493-1358-ND	.78	5.70	UVZ1J471MHD
1000	630.00	0.10	930	16.0	25.0	7.5	0.8	493-1359-ND	1.18	9.09	UVZ1J102MHD
2200	1386.00	0.12	1650	18.0	35.5	7.5	0.8	493-1360-ND	1.70	13.05	UVZ1J222MHD
3300	2079.00	0.14	1950	20.0	40.0	10.0	1.0	493-1361-ND	3.10	23.48	UVZ1J332MRD
4700	2961.00	0.16	2450	22.0	50.0	10.0	1.0	493-1362-ND	3.91	29.60	UVZ1J472MRD
6800	4284.00	0.20	2800	25.0	50.0	12.5	1.0	493-1363-ND	5.27	39.88	UVZ1J682MRD
100 VDC Rated Voltage											
0.1	3.00	0.08	1.5	5.0	11.0	2.0	0.5	493-1364-ND	.20	1.35	UVZ2A0R1MDD
0.22	3.00	0.08	3.4	5.0	11.0	2.0	0.5	493-1365-ND	.20	1.35	UVZ2AR22MDD
0.33	3.00	0.08	5	5.0	11.0	2.0	0.5	493-1366-ND	.20	1.35	UVZ2AR33MDD
0.47	3.00	0.08	7.1	5.0	11.0	2.0	0.5	493-1367-ND	.20	1.35	UVZ2AR47MDD
1	3.00	0.08	15	5.0	11.0	2.0	0.5	493-1368-ND	.20	1.35	UVZ2A010MDD
2.2	3.00	0.08	21	5.0	11.0	2.0	0.5	493-1369-ND	.20	1.35	UVZ2A2R2MDD
3.3	3.30	0.08	29	5.0	11.0	2.0	0.5	493-1370-ND	.25	1.66	UVZ2A3R3MDD
4.7	4.70	0.08	32	5.0	11.0	2.0	0.5	493-1371-ND	.25	1.66	UVZ2A4R7MDD
10	10.00	0.08	54	6.3	11.0	2.5	0.5	493-1372-ND	.24	1.64	UVZ2A100MED
22	22.00	0.08	93	6.3	11.0	2.5	0.5	493-1373-ND	.27	1.88	UVZ2A220MED
33	33.00	0.08	130	8.0	11.5	3.5	0.6	493-1374-ND	.36	2.48	UVZ2A330MPD
47	47.00	0.08	165	10.0	12.5	5.0	0.6	493-1375-ND	.35	2.45	UVZ2A470MPD
100	100.00	0.08	265	10.0	20.0	5.0	0.6	493-1376-ND	.54	3.75	UVZ2A101MPD
220	220.00	0.08	440	12.5	25.0	5.0	0.6	493-1377-ND	.85	6.18	UVZ2A221MHD
330	330.00	0.08	540	12.5	25.0	5.0	0.6	493-1378-ND	.94	6.85	UVZ2A331MHD
470	470.00	0.08	715	16.0	25.0	7.5	0.8	493-1379-ND	1.18	9.09	UVZ2A471MHD
1000	1000.00	0.08	985	18.0	40.0	7.5	0.8	493-1380-ND	1.94	14.91	UVZ2A102MHD
2200	2200.00	0.10	1750	22.0	50.0	10.0	1.0	493-1381-ND	4.38	33.18	UVZ2A222MRD
3300	3300.00	0.12	2070	25.0	50.0	12.5	1.0	493-1382-ND	4.56	34.56	UVZ2A332MRD
160 VDC Rated Voltage											
0.47	47.52	0.20	11	6.3	11.0	2.5	0.5	493-1383-ND	.25	1.66	UVZ2CR47MED
1	56	0.20	16	6.3	11.0	2.5	0.5	493-1384-ND	.25	1.66	UVZ2C010MED
2.2	75.2	0.20	25	6.3	11.0	2.5	0.5	493-1385-ND	.30	2.03	UVZ2C2R2MED
3.3	92.8	0.20	30	6.3	11.0	2.5	0.5	493-1386-ND	.28	1.96	UVZ2C3R3MED
4.7	115.2	0.20	34	6.3	11.0	2.5	0.5	493-1387-ND	.28	1.96	UVZ2C4R7MED
10	200	0.20	41	8.0	11.5	3.5	0.6	493-1388-ND	.35	2.44	UVZ2C100MPD
22	392	0.20	100	10.0	16.0	5.0	0.6	493-1389-ND	.45	3.12	UVZ2C220MPD
33	568	0.20	145	10.0	20.0	5.0	0.6	493-1390-ND	.57	3.96	UVZ2C330MPD
47	792	0.20	195	12.5	20.0	5.0	0.6	493-1391-ND	.64	4.48	UVZ2C470MHD
100	1640	0.20	215	12.5	25.0	5.0	0.6	493-1392-ND	.88	6.40	UVZ2C101MHD
220	3560	0.20	570	16.0	35.5	7.5	0.8	493-1393-ND	1.53	11.79	UVZ2C221MHD
330	5320	0.20	750	18.0	40.0	7.5	0.8	493-1394-ND	1.91	14.67	UVZ2C331MHD
470	7560	0.20	900	22.0	40.0	10.0	1.0	493-1395-ND	2.53	19.19	UVZ2C471MRD
1000	16040	0.20	1310	25.0	50.0	12.5	1.0	493-1396-ND	3.33	25.20	UVZ2C102MRD
200 VDC Rated Voltage											
0.47	49.4	0.20	11	6.3	11.0	2.5	0.5	493-1397-ND	.30	1.98	UVZ2DR47MED
1	60	0.20	16	6.3	11.0	2.5	0.5	493-1398-ND	.30	1.98	UVZ2D010MED
2.2	84	0.20	25	6.3	11.0	2.5	0.5	493-1399-ND	.25	1.72	UVZ2D2R2MED
3.3	106	0.20	30	6.3	11.0	2.5	0.5	493-1400-ND	.28	1.96	UVZ2D3R3MED
4.7	134	0.20	39	8.0	11.5	3.5	0.6	493-1401-ND	.35	2.44	UVZ2D4R7MPD
10	240	0.20	65	10.0	12.5	5.0	0.6	493-1402-ND	.39	2.70	UVZ2D100MPD
22	480	0.20	120	10.0	20.0	5.0	0.6	493-1403-ND	.57	3.96	UVZ2D220MPD
33	700	0.20	160	12.5	20.0	5.0	0.6	493-1404-ND	.64	4.48	UVZ2D330MHD
47	980	0.20	195	12.5	20.0	5.0	0.6	493-1405-ND	.64	4.48	UVZ2D470MHD
100	2040	0.20	375	16.0	31.5	7.5	0.8	493-1406-ND	1.30	10.02	UVZ2D101MHD
220	4440	0.20	575	18.0	35.5	7.5	0.8	493-1407-ND	1.72	13.26	UVZ2D221MHD
330	6640	0.20	705	20.0	40.0	10.0	1.0	493-1408-ND	2.60	19.69	UVZ2D331MRD
470	9440	0.20	840	22.0	50.0	10.0	1.0	493-1409-ND	3.33	25.20	UVZ2D471MRD
250 VDC Rated Voltage											
0.47	51.75	0.20	10	6.3	11.0	2.5	0.5	493-1410-ND	.30	2.03	UVZ2ER47MED
1	65	0.20	15	6.3	11.0	2.5	0.5	493-1411-ND	.30	2.03	UVZ2E010MED
2.2	95	0.20	23	6.3	11.0	2.5	0.5	493-1412-ND	.28	1.96	UVZ2E2R2MED
3.3	122.5	0.20	32	8.0	11.5	3.5	0.6	493-1413-ND	.28	1.96	UVZ2E3R3MPD
4.7	157.5	0.20	39	8.0	11.5	3.5	0.6	493-1414-ND	.35	2.44	UVZ2E4R7MPD
10	290	0.20	74	10.0	16.0	5.0	0.6	493-1415-ND	.45	3.12	UVZ2E100MPD
22	590	0.20	130	12.5	20.0	5.0	0.6	493-1416-ND	.57	3.96	UVZ2E220MHD
33	865	0.20	160	12.5	20.0	5.0	0.6	493-1417-ND	.64	4.48	UVZ2E330MHD
47	1215	0.20	210	12.5	25.0	5.0	0.6	493-1418-ND	.88	6.40	UVZ2E470MHD
100	2540	0.20	365	16.0	31.5	7.5	0.8	493-1419-ND	1.58	12.12	UVZ2E101MHD
220	5540	0.20	600	20.0	40.0	10.0	1.0	493-1420-ND	1.91	14.67	UVZ2E221MRD
330	8290	0.20	730	22.0	50.0	10.0	1.0	493-1421-ND	3.17	24.04	UVZ2E331MRD
470	11790	0.20	870	25.0	50.0	12.5	1.0	493-1422-ND	4.04	30.61	UVZ2E471MRD
315 VDC Rated Voltage											
1	71.5	0.20	15	6.3	11.0	2.5	0.5	493-1423-ND	.23	1.60	UVZ2F010MED
2.2	109.3	0.20	26	8.0	11.5	3.5	0.6	493-1424-ND	.29	2.04	UVZ2F2R2MPD
3.3	143.95	0.20	38	10.0	12.5	5.0	0.6	493-1425-ND	.32	2.20	UVZ2F3R3MPD
4.7	188.05	0.20	45	10.0	12.5	5.0	0.6	493-1426-ND	.39	2.72	UVZ2F4R7MPD
10	355	0.20	80	10.0	20.0	5.0	0.6	493-1427-ND	.45	3.12	UVZ2F100MPD
22	733	0.20	115	12.5	20.0	5.0	0.6	493-1428-ND	.57	3.96	UVZ2F220MHD
33	1079.5	0.20	195	16.0	25.0	7.5	0.8	493-1429-ND	.82	5.98	UVZ2F330MHD
47	1520.5	0.20	230	16.0	25.0	7.5	0.8	493-1430-ND	1.25	9.60	UVZ2F470MHD
100	3190	0.20	395	18.0	35.5	7.5	0.8	493-1431-ND	1.77	13.65	UVZ2F101MHD
220	6970	0.20	620	22.0	50.0	10.0	1.0	493-1432-ND	4.10	31.01	UVZ2F221MRD
330	10435	0.20	760	25.0	50.0	12.5	1.0	493-1433-ND	5.81	44.02	UVZ2F331MRD
350 VDC Rated Voltage											
1	75	0.25	15	6.3	11.0	2.5	0.5	493-1434-ND	.30	2.08	UVZ2V010MED
2.2	117	0.25	26	8.0	11.5	3.5	0.6	493-1435-ND	.32	2.24	UVZ2V2R2MPD
3.3	155.5	0.25	38	10.0	12.5	5.0	0.6	493-1436-ND	.35	2.44	UVZ2V3R3MPD
4.7	204.5	0.25	45	10.0	12.5	5.0	0.6	493-1437-ND	.40	2.76	UVZ2V4R7MPD
10	390	0.25	80	10.0	20.0	5.0	0.6	493-1438-ND	.58	4.03	UVZ2V100MPD
22	810	0.25	115	12.5	25.0	5.0	0.6	493-1439-ND	.61	4.45	UVZ2V220MHD
33	1195	0.25	195	16.0	25.0	7.5	0.8	493-1440-ND	1.01	7.36	UVZ2V330MHD
47	1685	0.25	270	16.0	35.5	7.5	0.8	493-1441-ND	1.37	10.50	UVZ2V470MHD
100	3540	0.25	420	18.0	40.0	7.5	0.8	493-1442-ND	1.77	13.41	UVZ2V101MHD
220	7740	0.25	620	22.0	50.0	10.0	1.0	493-1443-ND	4.50	34.08	UVZ2V221MRD
400 VDC Rated Voltage											
1	80	0.25	17	8.0	11.5	3.5	0.6	493-1444-ND	.32	2.24	UVZ2G010MPD
2.2	128	0.25	30	10.0	12.5	5.0	0.6	493-1445-ND	.37	2.60	UVZ2G2R2MPD
3.3	172	0.25	38	10.0	12.5	5.0	0.6	493-1446-ND	.35	2.45	UVZ2G3R3MPD
4.7	228	0.25	50	10.0	16.0	5.0	0.6	493-1447-ND	.45	3.15	UVZ2G4R7MPD
10	440	0.25	90	12.5	20.0	5.0	0.6	493-1448-ND	.58	4.19	UVZ2G100MHD
22	920	0.25	165	16.0	25.0	7.5	0.8	493-1449-ND	.98	7.10	UVZ2G220MHD
33	1360	0.25	215	16.0	31.5	7.5	0.8	493-1450-ND	1.37	10.50	UVZ2G330MHD
47	1920	0.25	270	16.0	35.5	7.5	0.8	493-1451-ND	1.61	12.36	UVZ2G470MHD
100	4040	0.25	450	20.0	40.0	10.0	1.0	493-1452-ND	2.57	19.48	UVZ2G101MHD
220	8840	0.25	660	25.0	50.0	12.5	1.0	493-1453-ND	4.57	34.64	UVZ2G221MHD
450 VDC Rated Voltage											
1	85	0.25	13	8.0	11.5	3.5	0.6	493-1454-ND	.33	2.32	UVZ2W010MPD
2.2	139	0.25	23	10.0	12.5	5.0	0.6	493-1455-ND	.37	2.59	UVZ2W2R2MPD
3.3	188.5	0.25	31	10.0	16.0	5.0	0.6	493-1456-ND	.48	3.36	UVZ2W3R3MPD
4.7	251.5	0.25	40	10.0	20.0	5.0	0.6	493-1457-ND	.59	4.13	UVZ2W4R7MPD
10	490	0.25	65	12.5	20.0	5.0	0.6	493-1458-ND	.84	6.08	UVZ2W100MHD
22	1030	0.25	115	16.0	25.0	7.5	0.8	493-1459-ND	1.05	8.04	UVZ2W220MHD
33	1525	0.25	165	16.0	35.5	7.5	0.8	493-1460-ND	1.50	11.52	UVZ2W330MHD
47	2155	0.25	185	18.0	40.0	7.5	0.8	493-1461-ND	1.87	14.37	UVZ2W470MHD
100	4540	0.25	270	22.0	40.0	10.0	1.0	493-1462-ND	3.46	26.21	UVZ2W101MRD

nichicon PW Series Aluminum Electrolytic Capacitors (Radial Lead)

Low Impedance, High Reliability 105°C

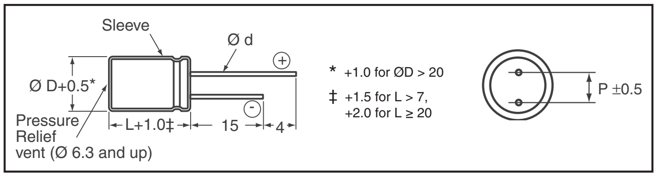

* +1.0 for ØD > 20

‡ +1.5 for L > 7,
+2.0 for L ≥ 20

FEATURES: • Miniature sized • Low impedance • High reliability withstanding 5000 hour load life at 105°C (3000/2000 hours for smaller case sizes as specified) • Ideal for switching power supplies

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C (6.3 ~ 100V), -40°C ~ 105°C (160 ~ 400V), -25°C ~ 105°C (450V)
Capacitance Tolerance	±20% at 120Hz, 20°C

- **Leakage Current:**

Rated Volt. (V)	6.3 ~ 100	160 ~ 450
Leakage Current	After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.	CV ≤ 1000: I = 0.1CV+40 (µA) Max. (1 minute) CV > 1000: I = 0.04CV+100 (µA) Max. (1 minute)

- **tan δ:** For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency: 120Hz, Temperature: 20°C.

Rated Volt. (V)	6.3	10	16	25	35	50	63	100	160 ~ 250	315 ~ 350	400 ~ 450
tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20	0.25

- **Stability at Low Temperature:** Measurement frequency: 120Hz

Rated Voltage (V)		6.3-10	16-25	35-50	63-100	160-200	250	315-350	400	450
Impedance ratio	Z-55°C/Z+20°C	3	3	3	3	—	—	—	—	—
	Z-40°C/Z+20°C	—	—	—	—	4	6	8	10	—
	Z-25°C/Z+20°C	—	—	—	—	3	3	4	6	15

- **Endurance:** After an application of D.C. bias voltage plus the rated ripple current for 5000 hours (2000 hours for D = 4, 5 and 6.3, 3000 hours for D = 8 and 10) at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±20% of initial value
tan δ	200 % or less of initial specified value
Leakage Current	Initial specified value or less

- **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed
- **Marking:** Printed with white color letter on dark brown sleeve

Rated Voltage (VDC)	Cap (µF)	Leakage Current (µA)	Impedance Ω Maximum 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @100KHz/105°C (mA) rms	Dimensions – mm				Digi-Key Part No.	Pricing			Nichicon Part No.
						ØD	L	P	ød		1	10	100	
6.3	22	4.158	0.600	0.22	180	5	11.0	2.0	0.50	493-1687-ND	.23	1.51	10.73	UPW0J220MDD
	27	5.103	2.000	0.22	65	4	7.0	1.5	0.45	493-1688-ND	.23	1.51	10.73	UPW0J270MDD
	33	6.237	0.600	0.22	180	5	11.0	2.0	0.50	493-1689-ND	.23	1.51	10.73	UPW0J330MDD
	33	6.237	0.950	0.22	120	5	7.0	2.0	0.45	493-1690-ND	.23	1.51	10.73	UPW0J330MDD6
	47	8.883	0.600	0.22	180	5	11.0	2.0	0.50	493-1691-ND	.23	1.51	10.73	UPW0J470MDD
	47	8.883	0.950	0.22	120	5	7.0	2.0	0.45	493-1692-ND	.23	1.51	10.73	UPW0J470MDD6
	56	10.584	0.950	0.22	120	5	7.0	2.0	0.45	493-1693-ND	.23	1.51	10.73	UPW0J560MDD
	68	12.852	1.300	0.22	120	4	11.0	1.5	0.45	493-1694-ND	.25	1.66	11.84	UPW0J680MDD
	100	18.9	0.600	0.22	180	5	11.0	2.0	0.50	493-1695-ND	.26	1.72	12.21	UPW0J101MDD
	120	22.68	0.450	0.22	200	6.3	7.0	2.5	0.45	493-1696-ND	.28	1.87	13.32	UPW0J121MDD
	150	28.35	0.500	0.22	235	5	15.0	2.0	0.50	493-1697-ND	.28	1.87	13.32	UPW0J151MDD6
	150	28.35	0.250	0.22	290	6.3	11.0	2.5	0.50	493-1698-ND	.28	1.87	13.32	UPW0J151MED
	220	41.58	0.250	0.22	290	6.3	11.0	2.5	0.50	493-1699-ND	.24	1.64	11.89	UPW0J221MED
	330	62.37	0.250	0.22	290	6.3	11.0	2.5	0.50	493-1700-ND	.28	1.92	13.92	UPW0J331MED
	330	62.37	0.230	0.22	430	6.3	15.0	2.5	0.50	493-1701-ND	.28	1.92	13.92	UPW0J331MED6
	470	88.83	0.117	0.22	555	8	11.5	3.5	0.60	493-1702-ND	.29	2.04	14.79	UPW0J471MPD
	560	105.84	0.117	0.22	555	8	11.5	3.5	0.60	493-1703-ND	.31	2.16	15.66	UPW0J561MPD
	680	128.52	0.090	0.22	755	10	12.5	5.0	0.60	493-1704-ND	.32	2.20	15.95	UPW0J681MPD
	820	154.98	0.085	0.22	730	8	15.0	3.5	0.60	493-1705-ND	.38	2.63	18.75	UPW0J821MPD
	820	154.98	0.090	0.22	755	10	12.5	5.0	0.60	493-1706-ND	.38	2.63	18.75	UPW0J821MPD6
	1000	189	0.090	0.22	755	10	12.5	5.0	0.60	493-1707-ND	.42	2.91	20.75	UPW0J102MPD
	1200	226.8	0.065	0.22	995	8	20.0	3.5	0.60	493-1708-ND	.42	2.94	21.00	UPW0J122MPD
	1200	226.8	0.068	0.22	1050	10	16.0	5.0	0.60	493-1709-ND	.50	3.47	24.75	UPW0J122MPD6
	1500	283.5	0.052	0.22	1220	10	20.0	5.0	0.60	493-1710-ND	.50	3.47	24.75	UPW0J152MPD
	2200	415.8	0.038	0.24	1655	12.5	20.0	5.0	0.60	493-1711-ND	.57	4.16	30.55	UPW0J222MHD
	2200	415.8	0.045	0.24	1440	10	25.0	5.0	0.60	493-1712-ND	.57	4.16	30.55	UPW0J222MPD6
	2700	510.3	0.035	0.24	1815	10	31.5	5.0	0.60	493-1713-ND	.73	5.28	38.78	UPW0J272MPD
	3300	623.7	0.038	0.26	1655	12.5	20.0	5.0	0.60	493-1714-ND	.75	5.47	40.19	UPW0J332MHD
	3900	737.1	0.030	0.26	1945	12.5	25.0	5.0	0.60	493-1715-ND	.89	6.50	47.71	UPW0J392MHD
	4700	888.3	0.022	0.28	2555	16	25.0	7.5	0.80	493-1716-ND	.92	6.66	48.88	UPW0J472MHD
	4700	888.3	0.025	0.28	2310	12.5	31.5	5.0	0.80	493-1717-ND	.92	6.66	48.88	UPW0J472MHD6
	5600	1058.4	0.022	0.30	2510	12.5	35.5	5.0	0.80	493-1718-ND	1.01	7.80	58.50	UPW0J562MHD
	5600	1058.4	0.029	0.30	2205	16	20.0	7.5	0.80	493-1719-ND	1.01	7.80	58.50	UPW0J562MHD6
	6800	1285.2	0.022	0.32	2555	16	25.0	7.5	0.80	493-1720-ND	1.04	7.98	59.85	UPW0J682MHD
	6800	1285.2	0.028	0.32	2490	18	20.0	7.5	0.80	493-1721-ND	1.04	7.98	59.85	UPW0J682MHD6
	8200	1549.8	0.018	0.36	3010	16	31.5	7.5	0.80	493-1722-ND	1.43	11.01	82.58	UPW0J822MHD
	10000	1890	0.016	0.40	3150	16	31.5	7.5	0.80	493-1723-ND	1.51	11.61	87.08	UPW0J103MHD
	10000	1890	0.020	0.40	2740	18	25.0	7.5	0.80	493-1724-ND	1.51	11.61	87.08	UPW0J103MHD6
	12000	2268	0.016	0.44	3635	18	31.5	7.5	0.80	493-1725-ND	1.76	13.53	101.48	UPW0J123MHD
	15000	2835	0.015	0.5	3680	18	35.5	7.5	0.80	493-1726-ND	1.86	14.28	107.10	UPW0J153MHD
10	22	6.6	0.600	0.19	180	5	11.0	2.0	0.50	493-1727-ND	.23	1.51	10.73	UPW1A220MDD
	22	6.6	2.000	0.19	65	4	7.0	1.5	0.45	493-1728-ND	.23	1.51	10.73	UPW1A220MDD6
	33	9.9	0.600	0.19	180	5	11.0	2.0	0.50	493-1729-ND	.23	1.51	10.73	UPW1A330MDD
	33	9.9	0.950	0.19	120	5	7.0	2.0	0.45	493-1730-ND	.23	1.51	10.73	UPW1A330MDD6
	39	11.7	0.950	0.19	120	5	7.0	2.0	0.45	493-1731-ND	.23	1.51	10.73	UPW1A390MDD
	47	14.1	0.600	0.19	180	5	11.0	2.0	0.50	493-1732-ND	.23	1.51	10.73	UPW1A470MDD
	47	14.1	1.300	0.19	120	4	11.0	1.5	0.45	493-1733-ND	.23	1.51	10.73	UPW1A470MDD6
	82	24.6	0.600	0.19	180	5	11.0	2.0	0.50	493-1734-ND	.26	1.72	12.21	UPW1A820MDD
	82	24.6	0.450	0.19	200	6.3	7.0	2.5	0.45	493-1735-ND	.26	1.72	12.21	UPW1A820MDD6
	100	30	0.600	0.19	180	5	11.0	2.0	0.50	493-1736-ND	.26	1.72	12.21	UPW1A101MDD
	100	30	0.500	0.19	235	5	15.0	2.0	0.50	493-1737-ND	.26	1.72	12.21	UPW1A101MDD6
	150	45	0.250	0.19	290	6.3	11.0	2.5	0.50	493-1738-ND	.24	1.64	11.89	UPW1A151MED
	180	54	0.250	0.19	290	6.3	11.0	2.5	0.50	493-1739-ND	.28	1.92	13.92	UPW1A181MED
	220	66	0.250	0.19	290	6.3	11.0	2.5	0.50	493-1740-ND	.29	2.00	14.50	UPW1A221MED
	220	66	0.230	0.19	430	6.3	15.0	2.5	0.50	493-1741-ND	.29	2.00	14.50	UPW1A221MED6
	330	99	0.117	0.19	555	8	11.5	3.5	0.60	493-1742-ND	.31	2.16	15.66	UPW1A331MPD
	470	141	0.117	0.19	555	8	11.5	3.5	0.60	493-1743-ND	.36	2.52	18.00	UPW1A471MPD
	680	204	0.090	0.19	755	10	12.5	5.0	0.60	493-1744-ND	.38	2.63	18.75	UPW1A681MPD
	680	204	0.085	0.19	730	8	15.0	3.5	0.60	493-1745-ND	.38	2.63	18.75	UPW1A681MPD6
	1000	300	0.068	0.19	1050	10	16.0	5.0	0.60	493-1746-ND	.51	3.54	25.25	UPW1A102MPD
	1000	300	0.065	0.19	995	8	20.0	3.5	0.60	493-1747-ND	.51	3.54	25.25	UPW1A102MPD6
	1200	360	0.052	0.19	1220	10	20.0	5.0	0.60	493-1748-ND	.56	3.92	28.00	UPW1A122MPD
	1500	450	0.052	0.19	1220	10	20.0	5.0	0.60	493-1749-ND	.59	4.10	29.25	UPW1A152MPD
	1500	450	0.045	0.19	1440	10	25.0	5.0	0.60	493-1750-ND	.59	4.10	29.25	UPW1A152MPD6
	2200	660	0.038	0.21	1655	12.5	20.0	5.0	0.60	493-1751-ND	.73	5.28	38.78	UPW1A222MHD
	2200	660	0.035	0.21	1815	10	31.5	5.0	0.60	493-1752-ND	.73	5.28	38.78	UPW1A222MPD6
	2700	810	0.030	0.21	1945	12.5	25.0	5.0	0.60	493-1753-ND	.75	5.47	40.19	UPW1A272MHD
	3300	990	0.030	0.23	1945	12.5	25.0	5.0	0.60	493-1754-ND	.65	4.70	34.55	UPW1A332MHD
	3300	990	0.025	0.23	2310	12.5	31.5	5.0	0.80	493-1755-ND	.65	4.70	34.55	UPW1A332MHD6
	3900	1170	0.022	0.23	2510	12.5	35.5	5.0	0.80	493-1756-ND	.92	6.66	48.88	UPW1A392MHD
	3900	1170	0.029	0.23	2205	16	20.0	7.5	0.80	493-1757-ND	.92	6.66	48.88	UPW1A392MHD6
	4700	1410	0.022	0.25	2555	16	25.0	7.5	0.80	493-1758-ND	.99	7.62	57.15	UPW1A472MHD
	5600	1680	0.022	0.27	2555	16	25.0	7.5	0.80	493-1759-ND	1.43	11.01	82.58	UPW1A562MHD
	5600	1680	0.028	0.27	2490	18	20.0	7.5	0.80	493-1760-ND	1.43	11.01	82.58	UPW1A562MHD6
	6800	2040	0.018	0.29	3010	16	31.5	7.5	0.80	493-1761-ND	1.51	11.61	87.08	UPW1A682MHD

(Continued)

Rated Voltage (VDC)	Cap (µF)	Leakage Current (µA)	Impedance Ω Maximum 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @100KHz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
						ØD	L	P	ød		1	10	100	
10	6800	2040	0.020	0.29	2740	18	25.0	7.5	0.80	493-1762-ND	1.51	11.61	87.08	UPW1A682MHD6
	8200	2460	0.016	0.33	3150	16	35.5	7.5	0.80	493-1763-ND	1.76	13.53	101.48	UPW1A822MHD
	8200	2460	0.016	0.33	3635	18	31.5	7.5	0.80	493-1764-ND	1.76	13.53	101.48	UPW1A822MHD6
	10000	3000	0.015	0.37	3680	18	35.5	7.5	0.80	493-1765-ND	1.86	14.28	107.10	UPW1A103MHD
	15000	4500	0.014	0.47	3800	18	40.0	7.5	0.80	493-1766-ND	1.82	13.81	109.41	UPW1A153MHD
16	10	4.8	0.600	0.16	180	5	11.0	2.0	0.50	493-1767-ND	.23	1.51	10.73	UPW1C100MDD
	15	7.2	2.000	0.16	65	4	7.0	1.5	0.45	493-1768-ND	.23	1.51	10.73	UPW1C150MDD
	22	10.56	0.600	0.16	180	5	11.0	2.0	0.50	493-1769-ND	.23	1.51	10.73	UPW1C220MDD
	22	10.56	0.950	0.16	120	5	7.0	2.0	0.45	493-1770-ND	.23	1.51	10.73	UPW1C220MDD6
	27	12.96	0.950	0.16	120	5	7.0	2.0	0.45	493-1771-ND	.23	1.51	10.73	UPW1C270MDD
	33	15.84	0.600	0.16	180	5	11.0	2.0	0.50	493-1772-ND	.23	1.51	10.73	UPW1C330MDD
	33	15.84	0.450	0.16	200	6.3	7.0	2.5	0.45	493-1773-ND	.23	1.51	10.73	UPW1C330MDD6
	39	18.72	1.300	0.16	120	4	11.0	1.5	0.45	493-1774-ND	.24	1.61	11.47	UPW1C390MDD
	47	22.56	0.600	0.16	180	5	11.0	2.0	0.50	493-1775-ND	.26	1.72	12.21	UPW1C470MDD
	56	26.88	0.600	0.16	180	5	11.0	2.0	0.50	493-1776-ND	.26	1.72	12.21	UPW1C560MDD
	56	26.88	0.450	0.16	200	6.3	7.0	2.5	0.45	493-1777-ND	.26	1.72	12.21	UPW1C560MDD6
	82	39.36	0.500	0.16	235	5	15.0	2.0	0.50	493-1778-ND	.28	1.87	13.32	UPW1C820MDD
	100	48	0.250	0.16	290	6.3	11.0	2.5	0.50	493-1779-ND	.23	1.60	11.60	UPW1C101MED
	120	57.6	0.250	0.16	290	6.3	11.0	2.5	0.50	493-1780-ND	.24	1.64	11.89	UPW1C121MED
	150	72	0.250	0.16	290	6.3	11.0	2.5	0.50	493-1781-ND	.28	1.92	13.92	UPW1C151MED
	180	86.4	0.230	0.16	430	6.3	15.0	2.5	0.50	493-1782-ND	.29	2.00	14.50	UPW1C181MED
	220	105.6	0.117	0.16	555	8	11.5	3.5	0.60	493-1783-ND	.31	2.16	15.66	UPW1C221MPD
	330	158.4	0.117	0.16	555	8	11.5	3.5	0.60	493-1784-ND	.38	2.63	18.75	UPW1C331MPD
	470	225.6	0.090	0.16	755	10	12.5	5.0	0.60	493-1785-ND	.39	2.73	19.50	UPW1C471MPD
	470	225.6	0.085	0.16	730	8	15.0	3.5	0.60	493-1786-ND	.39	2.73	19.50	UPW1C471MPD6
	680	326.4	0.068	0.16	1050	10	16.0	5.0	0.60	493-1787-ND	.55	3.82	27.25	UPW1C681MPD
	680	326.4	0.065	0.16	995	8	20.0	3.5	0.60	493-1788-ND	.55	3.82	27.25	UPW1C681MPD6
	820	393.6	0.052	0.16	1220	10	20.0	5.0	0.60	493-1789-ND	.64	4.48	32.00	UPW1C821MPD
	1000	480	0.052	0.16	1220	10	20.0	5.0	0.60	493-1790-ND	.64	4.48	32.00	UPW1C102MPD
	1200	576	0.045	0.16	1440	10	25.0	5.0	0.60	493-1791-ND	.76	5.54	40.66	UPW1C122MPD
	1500	720	0.038	0.16	1655	12.5	20.0	5.0	0.60	493-1792-ND	.77	5.57	40.89	UPW1C152MHD
	1500	720	0.035	0.16	1815	10	31.5	5.0	0.60	493-1793-ND	.77	5.57	40.89	UPW1C152MPD6
	2200	1056	0.030	0.18	1945	12.5	25.0	5.0	0.60	493-1794-ND	.60	4.38	32.20	UPW1C222MHD
	2700	1296	0.025	0.18	2310	12.5	31.5	5.0	0.80	493-1795-ND	1.06	8.19	61.43	UPW1C272MHD
	2700	1296	0.029	0.18	2205	16	20.0	7.5	0.80	493-1796-ND	1.06	8.19	61.43	UPW1C272MHD6
	3300	1584	0.022	0.20	2555	16	25.0	7.5	0.80	493-1797-ND	1.09	8.40	63.00	UPW1C332MHD
	3300	1584	0.022	0.20	2510	12.5	35.5	5.0	0.80	493-1798-ND	1.09	8.40	63.00	UPW1C332MHD6
	3900	1872	0.022	0.20	2555	16	25.0	7.5	0.80	493-1799-ND	1.43	11.01	82.58	UPW1C392MHD
	3900	1872	0.028	0.20	2490	18	20.0	7.5	0.80	493-1800-ND	1.43	11.01	82.58	UPW1C392MHD6
	4700	2256	0.018	0.22	3010	16	31.5	7.5	0.80	493-1801-ND	1.43	11.01	82.58	UPW1C472MHD
	4700	2256	0.020	0.22	2740	18	25.0	7.5	0.80	493-1802-ND	1.43	11.01	82.58	UPW1C472MHD6
	5600	2688	0.016	0.24	3150	16	35.5	7.5	0.80	493-1803-ND	1.51	11.61	87.08	UPW1C562MHD
	5600	2688	0.016	0.24	3635	18	31.5	7.5	0.80	493-1804-ND	1.51	11.61	87.08	UPW1C562MHD6
	6800	3264	0.015	0.26	3680	18	35.5	7.5	0.80	493-1805-ND	1.76	13.53	101.48	UPW1C682MHD
	8200	3936	0.015	0.3	3680	18	35.5	7.5	0.80	493-1806-ND	1.86	14.28	107.10	UPW1C822MHD
	10000	4800	0.014	0.34	3800	18	40.0	7.5	0.80	493-1807-ND	1.82	13.81	109.41	UPW1C103MHD
25	4.7	4	0.600	0.14	180	5	11.0	2.0	0.50	493-1808-ND	.23	1.51	10.73	UPW1E4R7MDD
	10	7.5	0.600	0.14	180	5	11.0	2.0	0.50	493-1809-ND	.23	1.51	10.73	UPW1E100MDD
	10	7.5	2.000	0.14	65	4	7.0	1.5	0.45	493-1810-ND	.23	1.51	10.73	UPW1E100MDD6
	22	16.5	0.600	0.14	180	5	11.0	2.0	0.50	493-1811-ND	.26	1.72	12.21	UPW1E220MDD
	22	16.5	0.950	0.14	120	5	7.0	2.0	0.45	493-1812-ND	.26	1.72	12.21	UPW1E220MDD6
	27	20.25	1.300	0.14	120	4	11.0	1.5	0.45	493-1813-ND	.26	1.72	12.21	UPW1E270MDD
	33	24.75	0.600	0.14	180	5	11.0	2.0	0.50	493-1814-ND	.26	1.72	12.21	UPW1E330MDD
	39	29.25	0.600	0.14	180	5	11.0	2.0	0.50	493-1815-ND	.30	2.03	14.43	UPW1E390MDD
	39	29.25	0.450	0.14	200	6.3	7.0	2.5	0.45	493-1816-ND	.30	2.03	14.43	UPW1E390MDD6
	47	35.25	0.600	0.14	180	5	11.0	2.0	0.50	493-1817-ND	.30	2.03	14.43	UPW1E470MDD
	56	42	0.500	0.14	235	5	15.0	2.0	0.50	493-1818-ND	.30	2.03	14.43	UPW1E560MDD
	82	61.5	0.250	0.14	290	6.3	11.0	2.5	0.50	493-1819-ND	.30	2.12	15.37	UPW1E820MED
	100	75	0.250	0.14	290	6.3	11.0	2.5	0.50	493-1820-ND	.30	2.12	15.37	UPW1E101MED
	120	90	0.230	0.14	430	6.3	15.0	2.5	0.50	493-1821-ND	.31	2.16	15.66	UPW1E121MED
	150	112.5	0.117	0.14	555	8	11.5	3.5	0.60	493-1822-ND	.32	2.20	15.95	UPW1E151MPD
	220	165	0.117	0.14	555	8	11.5	3.5	0.60	493-1823-ND	.38	2.63	18.75	UPW1E221MPD
	330	247.5	0.090	0.14	755	10	12.5	5.0	0.60	493-1824-ND	.38	2.66	19.00	UPW1E331MPD
	330	247.5	0.085	0.14	730	8	15.0	3.5	0.60	493-1825-ND	.38	2.66	19.00	UPW1E331MPD6
	470	352.5	0.068	0.14	1050	10	16.0	5.0	0.60	493-1826-ND	.57	3.96	28.25	UPW1E471MPD
	470	352.5	0.065	0.14	995	8	20.0	3.5	0.60	493-1827-ND	.57	3.96	28.25	UPW1E471MPD6
	560	420	0.052	0.14	1220	10	20.0	5.0	0.60	493-1828-ND	.57	4.16	30.55	UPW1E561MPD
	680	510	0.052	0.14	1220	10	20.0	5.0	0.60	493-1829-ND	.57	4.16	30.55	UPW1E681MPD
	820	615	0.045	0.14	1440	10	25.0	5.0	0.60	493-1830-ND	.76	5.54	40.66	UPW1E821MPD
	1000	750	0.038	0.14	1655	12.5	20.0	5.0	0.60	493-1831-ND	.74	5.38	39.48	UPW1E102MHD
	1000	750	0.035	0.14	1815	10	31.5	5.0	0.60	493-1832-ND	.74	5.38	39.48	UPW1E102MPD6
	1500	1125	0.022	0.14	2555	16	25.0	7.5	0.80	493-1833-ND	.92	6.69	49.12	UPW1E152MHD
	1500	1125	0.030	0.14	1945	12.5	25.0	5.0	0.60	493-1834-ND	.92	6.69	49.12	UPW1E152MHD6
	1800	1350	0.025	0.14	2310	12.5	31.5	5.0	0.80	493-1835-ND	1.01	7.80	58.50	UPW1E182MHD
	1800	1350	0.029	0.14	2205	16	20.0	7.5	0.80	493-1836-ND	1.01	7.80	58.50	UPW1E182MHD6
	2200	1650	0.022	0.16	2555	16	25.0	7.5	0.80	493-1837-ND	1.06	8.19	61.43	UPW1E222MHD
	2200	1650	0.022	0.16	2510	12.5	35.5	5.0	0.80	493-1838-ND	1.06	8.19	61.43	UPW1E222MHD3
	2200	1650	0.028	0.16	2490	18	20.0	7.5	0.80	493-1839-ND	1.06	8.19	61.43	UPW1E222MHD6
	2700	2025	0.022	0.16	2555	16	25.0	7.5	0.80	493-1840-ND	1.38	10.59	79.43	UPW1E272MHD
	3300	2475	0.018	0.18	3010	16	31.5	7.5	0.80	493-1841-ND	1.44	11.07	83.03	UPW1E332MHD
	3300	2475	0.020	0.18	2740	18	25.0	7.5	0.80	493-1842-ND	1.44	11.07	83.03	UPW1E332MHD6
	3900	2925	0.016	0.18	3150	16	35.5	7.5	0.80	493-1843-ND	1.51	11.61	87.08	UPW1E392MHD
	3900	2925	0.016	0.18	3635	18	31.5	7.5	0.80	493-1844-ND	1.51	11.61	87.08	UPW1E392MHD6
	4700	3525	0.015	0.2	3680	18	35.5	7.5	0.80	493-1845-ND	1.45	11.13	83.48	UPW1E472MHD
	6800	5100	0.014	0.24	3800	18	40.0	7.5	0.80	493-1846-ND	1.95	14.79	117.18	UPW1E682MHD
35	4.7	4.935	0.600	0.12	180	5	11.0	2.0	0.50	493-1847-ND	.23	1.51	10.73	UPW1V4R7MDD
	6.8	7.14	2.000	0.12	65	4	7.0	1.5	0.45	493-1848-ND	.23	1.51	10.73	UPW1V6R8MDD
	10	10.5	0.600	0.12	180	5	11.0	2.0	0.50	493-1849-ND	.23	1.51	10.73	UPW1V100MDD
	10	10.5	0.950	0.12	120	5	7.0	2.0	0.45	493-1850-ND	.23	1.51	10.73	UPW1V100MDD6
	12	12.6	0.950	0.12	120	5	7.0	2.0	0.45	493-1851-ND	.23	1.51	10.73	UPW1V120MDD
	18	18.9	1.300	0.12	120	4	11.0	1.5	0.45	493-1852-ND	.25	1.66	11.84	UPW1V180MDD
	22	23.1	0.600	0.12	180	5	11.0	2.0	0.50	493-1853-ND	.26	1.72	12.21	UPW1V220MDD
	27	28.35	0.600	0.12	180	5	11.0	2.0	0.50	493-1854-ND	.26	1.72	12.21	UPW1V270MDD
	27	28.35	0.450	0.12	200	6.3	7.0	2.5	0.45	493-1855-ND	.26	1.72	12.21	UPW1V270MDD6
	33	34.65	0.600	0.12	180	5	11.0	2.0	0.50	493-1856-ND	.30	2.03	14.43	UPW1V330MDD
	39	40.95	0.500	0.12	235	5	15.0	2.0	0.50	493-1857-ND	.23	1.60	11.60	UPW1V390MDD
	47	49.35	0.250	0.12	290	6.3	11.0	2.5	0.50	493-1858-ND	.24	1.64	11.89	UPW1V470MED
	56	58.8	0.250	0.12	290	6.3	11.0	2.5	0.50	493-1859-ND	.24	1.64	11.89	UPW1V560MED
	82	86.1	0.230	0.12	430	6.3	15.0	2.5	0.50	493-1860-ND	.33	2.28	16.53	UPW1V820MED
	100	105	0.117	0.12	555	8	11.5	3.5	0.60	493-1861-ND	.31	2.16	15.66	UPW1V101MPD
	150	157.5	0.117	0.12	555	8	11.5	3.5	0.60	493-1862-ND	.34	2.36	17.11	UPW1V151MPD
	220	231	0.090	0.12	755	10	12.5	5.0	0.60	493-1863-ND	.42	2.94	21.00	UPW1V221MPD
	220	231	0.085	0.12	730	8	15.0	3.5	0.60	493-1864-ND	.42	2.94	21.00	UPW1V221MPD6
	330	346.5	0.068	0.12	1050	10	16.0	5.0	0.60	493-1865-ND	.57	3.96	28.25	UPW1V331MPD
	330	346.5	0.065	0.12	995	8	20.0	3.5	0.60	493-1866-ND	.57	3.96	28.25	UPW1V331MPD6

(Continued)

nichicon PW Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated Voltage (VDC)	Cap (µF)	Leakage Current (µA)	Impedance Ω Maximum 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @100KHz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
						ØD	L	P	ød		1	10	100	
35	390	409.5	0.052	0.12	1220	10	20.0	5.0	0.60	493-1867-ND	.63	4.61	33.84	UPW1V391MPD
	470	493.5	0.052	0.12	1220	10	20.0	5.0	0.60	493-1868-ND	.63	4.61	33.84	UPW1V471MPD
	560	588	0.045	0.12	1440	10	25.0	5.0	0.60	493-1869-ND	.77	5.57	40.89	UPW1V561MPD
	680	714	0.038	0.12	1655	12.5	20.0	5.0	0.60	493-1870-ND	.77	5.57	40.89	UPW1V681MHD
	680	714	0.035	0.12	1815	10	31.5	5.0	0.60	493-1871-ND	.77	5.57	40.89	UPW1V681MPD6
	1000	1050	0.030	0.12	1945	12.5	25.0	5.0	0.60	493-1872-ND	.92	6.72	49.35	UPW1V102MHD
	1200	1260	0.025	0.12	2310	12.5	31.5	5.0	0.80	493-1873-ND	1.01	7.80	58.50	UPW1V122MHD
	1200	1260	0.029	0.12	2205	16	20.0	7.5	0.80	493-1874-ND	1.01	7.80	58.50	UPW1V122MHD6
	1500	1575	0.022	0.12	2555	16	25.0	7.5	0.80	493-1875-ND	1.09	8.40	63.00	UPW1V152MHD
	1500	1575	0.022	0.12	2510	12.5	35.5	5.0	0.80	493-1876-ND	1.09	8.40	63.00	UPW1V152MHD6
	1800	1890	0.022	0.12	2555	16	25.0	7.5	0.80	493-1877-ND	1.38	10.59	79.43	UPW1V182MHD
	1800	1890	0.028	0.12	2490	18	20.0	7.5	0.80	493-1878-ND	1.38	10.59	79.43	UPW1V182MHD6
	2200	2310	0.018	0.14	3010	16	31.5	7.5	0.80	493-1879-ND	1.38	10.59	79.43	UPW1V222MHD
	2200	2310	0.020	0.14	2740	18	25.0	7.5	0.80	493-1880-ND	1.38	10.59	79.43	UPW1V222MHD6
	2700	2835	0.016	0.14	3150	16	35.5	7.5	0.80	493-1881-ND	1.51	11.61	87.08	UPW1V272MHD
	2700	2835	0.016	0.14	3635	18	31.5	7.5	0.80	493-1882-ND	1.51	11.61	87.08	UPW1V272MHD6
	3300	3465	0.015	0.16	3680	18	35.5	7.5	0.80	493-1883-ND	1.76	13.53	101.48	UPW1V332MHD
	4700	4935	0.014	0.18	3800	18	40.0	7.5	0.80	493-1884-ND	1.95	14.79	117.18	UPW1V472MHD
50	0.47	4	5.000	0.1	25	5	11.0	2.0	0.50	493-1885-ND	.23	1.51	10.73	UPW1HR47MDD
	1	4	3.500	0.1	40	5	11.0	2.0	0.50	493-1886-ND	.23	1.51	10.73	UPW1H010MDD
	2.2	4	3.000	0.1	55	5	11.0	2.0	0.50	493-1887-ND	.23	1.51	10.73	UPW1H2R2MDD
	3.3	4.95	2.600	0.1	65	5	11.0	2.0	0.50	493-1888-ND	.23	1.51	10.73	UPW1H3R3MDD
	4.7	7.05	2.300	0.1	90	5	11.0	2.0	0.50	493-1889-ND	.23	1.51	10.73	UPW1H4R7MDD
	10	15	1.400	0.1	120	5	11.0	2.0	0.50	493-1890-ND	.25	1.66	11.84	UPW1H100MDD
	10	15	2.500	0.1	90	4	11.0	1.5	0.45	493-1891-ND	.25	1.66	11.84	UPW1H100MDD6
	18	27	1.300	0.1	155	5	11.0	2.0	0.50	493-1892-ND	.23	1.60	11.60	UPW1H180MDD
	22	33	1.200	0.1	170	5	11.0	2.0	0.50	493-1893-ND	.23	1.60	11.60	UPW1H220MDD
	27	40.5	0.900	0.1	215	5	15.0	2.0	0.50	493-1894-ND	.23	1.60	11.60	UPW1H270MDD
	33	49.5	0.430	0.1	300	6.3	11.0	2.5	0.50	493-1895-ND	.28	1.96	14.21	UPW1H330MED
	47	70.5	0.430	0.1	300	6.3	11.0	2.5	0.50	493-1896-ND	.30	2.08	15.08	UPW1H470MED
	56	84	0.400	0.1	360	6.3	15.0	2.5	0.50	493-1897-ND	.31	2.16	15.66	UPW1H560MED
	82	123	0.234	0.1	485	8	11.5	3.5	0.60	493-1898-ND	.38	2.63	18.75	UPW1H820MPD
	100	150	0.234	0.1	485	8	11.5	3.5	0.60	493-1899-ND	.38	2.63	18.75	UPW1H101MPD
	120	180	0.155	0.1	635	8	15.0	3.5	0.60	493-1900-ND	.41	2.87	20.50	UPW1H121MPD
	120	180	0.162	0.1	615	10	12.5	5.0	0.60	493-1901-ND	.41	2.87	20.50	UPW1H121MPD6
	150	225	0.162	0.1	615	10	12.5	5.0	0.60	493-1902-ND	.41	2.87	20.50	UPW1H151MPD
	180	270	0.120	0.1	860	8	20.0	3.5	0.60	493-1903-ND	.50	3.47	24.75	UPW1H181MPD
	180	270	0.119	0.1	850	10	16.0	5.0	0.60	493-1904-ND	.50	3.47	24.75	UPW1H181MPD6
	220	330	0.119	0.1	850	10	16.0	5.0	0.60	493-1905-ND	.50	3.47	24.75	UPW1H221MPD
	220	330	0.090	0.1	1030	10	20.0	5.0	0.60	493-1906-ND	.50	3.47	24.75	UPW1H221MPD6
	270	405	0.082	0.1	1200	10	25.0	5.0	0.60	493-1907-ND	.59	4.32	31.73	UPW1H271MPD
	330	495	0.090	0.1	1030	10	20.0	5.0	0.60	493-1908-ND	.59	4.32	31.73	UPW1H331MPD
	330	495	0.060	0.1	1610	10	31.5	5.0	0.60	493-1909-ND	.59	4.32	31.73	UPW1H331MPD6
	390	585	0.063	0.1	1480	12.5	20.0	5.0	0.60	493-1910-ND	.77	5.57	40.89	UPW1H391MHD
	470	705	0.060	0.1	1500	12.5	20.0	5.0	0.60	493-1911-ND	.78	5.66	41.60	UPW1H471MHD
	560	840	0.050	0.1	1832	12.5	25.0	5.0	0.60	493-1912-ND	.95	6.91	50.76	UPW1H561MHD
	680	1020	0.050	0.1	1832	12.5	25.0	5.0	0.60	493-1913-ND	.95	6.91	50.76	UPW1H681MHD
	680	1020	0.048	0.1	1835	16	20.0	7.5	0.80	493-1914-ND	.95	6.91	50.76	UPW1H681MHD6
	820	1230	0.034	0.1	2285	12.5	35.5	5.0	0.80	493-1915-ND	1.01	7.80	58.50	UPW1H821MHD
	820	1230	0.042	0.1	2420	18	20.0	7.5	0.80	493-1916-ND	1.01	7.80	58.50	UPW1H821MHD6
	1000	1500	0.034	0.1	2235	16	25.0	7.5	0.80	493-1917-ND	1.01	7.80	58.50	UPW1H102MHD
	1200	1800	0.028	0.1	2700	16	31.5	7.5	0.80	493-1918-ND	1.51	11.61	87.08	UPW1H122MHD
	1200	1800	0.029	0.1	2610	18	25.0	7.5	0.80	493-1919-ND	1.51	11.61	87.08	UPW1H122MHD6
	1500	2250	0.028	0.1	2700	16	31.5	7.5	0.80	493-1920-ND	1.51	11.61	87.08	UPW1H152MHD
	1500	2250	0.025	0.1	2790	16	35.5	7.5	0.80	493-1921-ND	1.51	11.61	87.08	UPW1H152MHD6
	1800	2700	0.025	0.1	3000	18	31.5	7.5	0.80	493-1922-ND	1.76	13.53	101.48	UPW1H182MHD
	2200	3300	0.023	0.12	3100	18	35.5	7.5	0.80	493-1923-ND	1.90	14.61	109.58	UPW1H222MHD
63	4.7	8.883	4.700	0.09	68	5	11.0	2.0	0.50	493-1924-ND	.26	1.72	12.21	UPW1J4R7MDD
	6.8	12.852	2.500	0.09	95	5	11.0	2.0	0.50	493-1925-ND	.26	1.72	12.21	UPW1J6R8MDD
	6.8	12.852	3.500	0.09	80	4	11.0	1.5	0.45	493-1926-ND	.26	1.72	12.21	UPW1J6R8MDD6
	10	18.9	2.100	0.09	110	5	11.0	2.0	0.50	493-1927-ND	.26	1.72	12.21	UPW1J100MDD
	12	22.68	2.000	0.09	145	5	11.0	2.0	0.50	493-1928-ND	.23	1.60	11.60	UPW1J120MDD
	15	28.35	1.200	0.09	160	6.3	11.0	2.5	0.50	493-1929-ND	.28	1.96	14.21	UPW1J150MED
	18	34.02	1.300	0.09	200	5	15.0	2.0	0.50	493-1930-ND	.28	1.96	14.21	UPW1J180MDD
	22	41.58	0.710	0.09	250	6.3	11.0	2.5	0.50	493-1931-ND	.28	1.96	14.21	UPW1J220MED
	33	62.37	0.710	0.09	250	6.3	11.0	2.5	0.50	493-1932-ND	.30	2.08	15.08	UPW1J330MED
	39	73.71	0.700	0.09	330	6.3	15.0	2.5	0.50	493-1933-ND	.30	2.12	15.37	UPW1J390MED
	47	88.83	0.342	0.09	405	8	11.5	3.5	0.60	493-1934-ND	.34	2.36	17.11	UPW1J470MPD
	68	128.52	0.342	0.09	405	8	11.5	3.5	0.60	493-1935-ND	.38	2.63	18.75	UPW1J680MPD
	100	189	0.256	0.09	535	10	12.5	5.0	0.60	493-1936-ND	.41	2.87	20.50	UPW1J101MPD
	100	189	0.230	0.09	535	8	15.0	3.5	0.60	493-1937-ND	.41	2.87	20.50	UPW1J101MPD6
	120	226.8	0.194	0.09	600	10	16.0	5.0	0.60	493-1938-ND	.50	3.47	24.75	UPW1J121MPD
	150	283.5	0.194	0.09	660	10	16.0	5.0	0.60	493-1939-ND	.50	3.47	24.75	UPW1J151MPD
	180	340.2	0.150	0.09	1020	12.5	15.0	5.0	0.60	493-1940-ND	.63	4.61	33.84	UPW1J181MHD6
	180	340.2	0.147	0.09	885	10	20.0	5.0	0.60	493-1941-ND	.63	4.61	33.84	UPW1J181MPD
	220	415.8	0.147	0.09	885	10	20.0	5.0	0.60	493-1942-ND	.76	5.54	40.66	UPW1J221MPD
	220	415.8	0.130	0.09	1050	10	25.0	5.0	0.60	493-1943-ND	.76	5.54	40.66	UPW1J221MPD6
	270	510.3	0.090	0.09	1410	16	15.0	7.5	0.80	493-1944-ND	.77	5.57	40.89	UPW1J271MHD
	330	623.7	0.085	0.09	1285	12.5	20.0	5.0	0.60	493-1945-ND	.77	5.57	40.89	UPW1J331MHD
	390	737.1	0.070	0.09	1720	12.5	25.0	5.0	0.60	493-1946-ND	.95	6.91	50.76	UPW1J391MHD
	390	737.1	0.086	0.09	1690	18	15.0	7.5	0.80	493-1947-ND	.95	6.91	50.76	UPW1J391MHD6
	470	888.3	0.070	0.09	1720	12.5	25.0	5.0	0.60	493-1948-ND	.95	6.91	50.76	UPW1J471MHD
	470	888.3	0.059	0.09	1765	16	20.0	7.5	0.80	493-1949-ND	.95	6.91	50.76	UPW1J471MHD3
	470	888.3	0.055	0.09	2090	12.5	31.5	5.0	0.80	493-1950-ND	.95	6.91	50.76	UPW1J471MHD6
	680	1285.2	0.050	0.09	2160	16	25.0	7.5	0.80	493-1951-ND	1.01	7.80	58.50	UPW1J681MHD
	680	1285.2	0.055	0.09	2290	18	20.0	7.5	0.80	493-1952-ND	1.01	7.80	58.50	UPW1J681MHD3
	680	1285.2	0.047	0.09	2265	12.5	35.5	5.0	0.80	493-1953-ND	1.01	7.80	58.50	UPW1J681MHD6
	820	1549.8	0.043	0.09	2670	16	31.5	7.5	0.80	493-1954-ND	1.51	11.61	87.08	UPW1J821MHD
	820	1549.8	0.043	0.09	2585	18	25.0	7.5	0.80	493-1955-ND	1.51	11.61	87.08	UPW1J821MHD6
	1000	1890	0.043	0.09	2670	16	31.5	7.5	0.80	493-1956-ND	1.51	11.61	87.08	UPW1J102MHD
	1000	1890	0.036	0.09	2770	16	35.5	7.5	0.80	493-1957-ND	1.51	11.61	87.08	UPW1J102MHD6
	1200	2268	0.032	0.09	2950	18	31.5	7.5	0.80	493-1958-ND	1.76	13.53	101.48	UPW1J122MHD
	1500	2835	0.030	0.09	3095	18	35.5	7.5	0.80	493-1959-ND	1.90	14.61	109.58	UPW1J152MHD
	2200	4158	0.028	0.11	3200	18	40.0	7.5	0.80	493-1960-ND	1.95	14.79	117.18	UPW1J222MHD
100	0.47	4	43.000	0.08	20	5	11.0	2.0	0.50	493-1961-ND	.26	1.72	12.21	UPW2AR47MDD
	1	4	20.000	0.08	30	5	11.0	2.0	0.50	493-1962-ND	.26	1.72	12.21	UPW2A010MDD
	2.2	6.6	9.800	0.08	44	5	11.0	2.0	0.50	493-1963-ND	.26	1.72	12.21	UPW2A2R2MDD
	3.3	9.9	6.600	0.08	58	5	11.0	2.0	0.50	493-1964-ND	.30	2.03	14.43	UPW2A3R3MDD
	4.7	14.1	4.600	0.08	74	5	11.0	2.0	0.50	493-1965-ND	.30	2.03	14.43	UPW2A4R7MDD
	6.8	20.4	3.500	0.08	95	5	11.0	2.0	0.50	493-1966-ND	.30	2.03	14.43	UPW2A6R8MDD
	10	30	1.800	0.08	130	6.3	11.0	2.5	0.50	493-1967-ND	.30	2.08	15.08	UPW2A100MED
	15	45	0.830	0.08	180	8	11.5	3.5	0.60	493-1968-ND	.34	2.36	17.11	UPW2A150MPD
	18	54	0.800	0.08	200	6.3	15.0	2.5	0.50	493-1969-ND	.34	2.36	17.11	UPW2A180MED
	22	66	0.680	0.08	230	8	11.5	3.5	0.60	493-1970-ND	.38	2.63	18.75	UPW2A220MPD

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Rated Voltage (VDC)	Cap (µF)	Leakage Current (µA)	Impedance Ω Maximum 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @100KHz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
						ØD	L	P	ød		1	10	100	
100	33	99	0.460	0.08	320	10	12.5	5.0	0.60	493-1971-ND	.41	2.87	20.50	UPW2A330MPD
	33	99	0.450	0.08	360	8	15.0	3.5	0.60	493-1972-ND	.41	2.87	20.50	UPW2A330MPD6
	47	141	0.370	0.08	420	10	16.0	5.0	0.60	493-1973-ND	.50	3.47	24.75	UPW2A470MPD
	47	141	0.370	0.08	420	8	20.0	3.5	0.60	493-1974-ND	.50	3.47	24.75	UPW2A470MPD6
	68	204	0.300	0.08	490	10	20.0	5.0	0.60	493-1975-ND	.63	4.61	33.84	UPW2A680MPD
	82	246	0.250	0.08	540	10	25.0	5.0	0.60	493-1976-ND	.76	5.54	40.66	UPW2A820MPD
	100	300	0.180	0.08	580	12.5	20.0	5.0	0.60	493-1977-ND	.77	5.57	40.89	UPW2A101MHD
	150	450	0.130	0.08	710	12.5	25.0	5.0	0.60	493-1978-ND	1.06	7.68	56.40	UPW2A151MHD
	180	540	0.120	0.08	790	12.5	31.5	5.0	0.80	493-1979-ND	1.08	7.87	57.81	UPW2A181MHD
	180	540	0.130	0.08	750	16	20.0	7.5	0.80	493-1980-ND	1.08	7.87	57.81	UPW2A181MHD6
	220	660	0.100	0.08	890	16	25.0	7.5	0.80	493-1981-ND	1.02	7.83	58.73	UPW2A221MHD
	220	660	0.110	0.08	850	18	20.0	7.5	0.80	493-1982-ND	1.02	7.83	58.73	UPW2A221MHD6
	330	990	0.090	0.08	1080	16	25.0	7.5	0.80	493-1983-ND	1.35	10.41	78.08	UPW2A331MHD
	390	1170	0.083	0.08	1260	18	25.0	7.5	0.80	493-1984-ND	1.43	10.98	82.35	UPW2A391MHD
	470	1410	0.076	0.08	1310	16	31.5	7.5	0.80	493-1985-ND	1.51	11.58	86.85	UPW2A471MHD
	560	1680	0.068	0.08	1370	18	31.5	7.5	0.80	493-1986-ND	1.76	13.53	101.48	UPW2A561MHD
	680	2040	0.064	0.08	1410	16	35.5	7.5	0.80	493-1987-ND	1.90	14.61	109.58	UPW2A681MHD
	1000	3000	0.047	0.08	1520	18	40.0	7.5	0.80	493-1988-ND	2.56	19.35	153.30	UPW2A102MHD
160	0.47	47.52	—	0.15	12	6.3	11.0	2.5	0.50	493-1989-ND	.30	2.08	15.08	UPW2CR47MED
	1	56	—	0.15	17	6.3	11.0	2.5	0.50	493-1990-ND	.30	2.08	15.08	UPW2C010MED
	2.2	75.2	—	0.15	25	6.3	11.0	2.5	0.50	493-1991-ND	.36	2.48	17.98	UPW2C2R2MED
	3.3	92.8	—	0.15	36	8	11.5	3.5	0.60	493-1992-ND	.40	2.80	20.00	UPW2C3R3MPD
	4.7	115.2	—	0.15	43	8	11.5	3.5	0.60	493-1993-ND	.40	2.80	20.00	UPW2C4R7MPD
	10	200	—	0.15	70	10	12.5	5.0	0.60	493-1994-ND	.48	3.36	24.00	UPW2C100MPD
	22	392	—	0.15	130	10	20.0	5.0	0.60	493-1995-ND	.60	4.38	32.20	UPW2C220MPD
	33	568	—	0.15	180	12.5	20.0	5.0	0.60	493-1996-ND	.74	5.38	39.48	UPW2C330MHD
	47	792	—	0.15	220	12.5	25.0	5.0	0.60	493-1997-ND	.87	6.34	46.53	UPW2C470MHD
	100	1640	—	0.15	330	16	25.0	7.5	0.80	493-1998-ND	1.14	8.76	65.70	UPW2C101MHD
	220	3560	—	0.15	500	18	35.5	7.5	0.80	493-1999-ND	1.88	14.23	112.77	UPW2C221MHD
	220	3560	—	0.15	500	20	31.0	10.0	1.00	493-2000-ND	1.88	14.23	112.77	UPW2C221MRD6
	330	5320	—	0.15	900	20	40.0	10.0	1.00	493-2001-ND	2.47	18.68	148.05	UPW2C331MRD
	470	7560	—	0.15	1200	22	50.0	10.0	1.00	493-2002-ND	3.72	28.14	223.02	UPW2C471MRD
200	0.47	49.4	—	0.15	12	6.3	11.0	2.5	0.50	493-2003-ND	.33	2.28	16.53	UPW2DR47MED
	1	60	—	0.15	17	6.3	11.0	2.5	0.50	493-2004-ND	.33	2.28	16.53	UPW2D010MED
	2.2	84	—	0.15	25	6.3	11.0	2.5	0.50	493-2005-ND	.37	2.59	18.50	UPW2D2R2MED
	3.3	106	—	0.15	36	8	11.5	3.5	0.60	493-2006-ND	.40	2.80	20.00	UPW2D3R3MPD
	4.7	134	—	0.15	50	10	12.5	5.0	0.60	493-2007-ND	.43	3.01	21.50	UPW2D4R7MPD
	10	240	—	0.15	80	10	16.0	5.0	0.60	493-2008-ND	.54	3.78	27.00	UPW2D100MPD
	22	480	—	0.15	140	10	20.0	5.0	0.60	493-2009-ND	.74	5.38	39.48	UPW2D220MPD
	33	700	—	0.15	190	12.5	25.0	5.0	0.60	493-2010-ND	.87	6.34	46.53	UPW2D330MHD
	47	980	—	0.15	220	12.5	25.0	5.0	0.60	493-2011-ND	.92	6.69	49.12	UPW2D470MHD
	100	2040	—	0.15	335	16	31.5	7.5	0.80	493-2012-ND	1.82	13.98	104.85	UPW2D101MHD
	220	4440	—	0.15	515	18	40.0	7.5	0.80	493-2013-ND	2.26	17.15	135.87	UPW2D221MHD
	220	4440	—	0.15	515	20	35.0	10.0	1.00	493-2014-ND	2.26	17.15	135.87	UPW2D221MRD6
	330	6640	—	0.15	1100	22	40.0	10.0	1.00	493-2015-ND	3.91	29.63	234.78	UPW2D331MRD
	470	9440	—	0.15	1310	22	50.0	10.0	1.00	493-2016-ND	4.81	36.41	288.54	UPW2D471MRD
250	0.47	51.75	—	0.15	12	6.3	11.0	2.5	0.50	493-2017-ND	.36	2.48	17.98	UPW2ER47MED
	1	65	—	0.15	17	6.3	11.0	2.5	0.50	493-2018-ND	.36	2.48	17.98	UPW2E010MED
	2.2	95	—	0.15	29	8	11.5	3.5	0.60	493-2019-ND	.40	2.80	20.00	UPW2E2R2MPD
	3.3	122.5	—	0.15	42	10	12.5	5.0	0.60	493-2020-ND	.42	2.94	21.00	UPW2E3R3MPD
	4.7	157.5	—	0.15	50	10	12.5	5.0	0.60	493-2021-ND	.48	3.33	23.75	UPW2E4R7MPD
	10	290	—	0.15	88	10	20.0	5.0	0.60	493-2022-ND	.60	4.38	32.20	UPW2E100MPD
	22	590	—	0.15	155	12.5	25.0	5.0	0.60	493-2023-ND	.74	5.38	39.48	UPW2E220MHD
	33	865	—	0.15	190	12.5	25.0	5.0	0.60	493-2024-ND	.87	6.34	46.53	UPW2E330MHD
	47	1215	—	0.15	230	16	25.0	7.5	0.80	493-2025-ND	1.14	8.76	65.70	UPW2E470MHD
	100	2540	—	0.15	340	18	35.5	7.5	0.80	493-2026-ND	1.88	14.23	112.77	UPW2E101MHD
	100	2540	—	0.15	340	20	31.0	10.0	1.00	493-2027-ND	1.88	14.23	112.77	UPW2E101MRD6
	220	5540	—	0.15	525	20	40.0	10.0	1.00	493-2028-ND	2.57	19.45	154.14	UPW2E221MRD
	330	8290	—	0.15	1150	22	50.0	10.0	1.00	493-2029-ND	4.61	34.90	276.57	UPW2E331MRD
	470	11790	—	0.15	1350	25	50.0	12.5	1.00	493-2030-ND	5.94	44.97	356.37	UPW2E471MRD
315	0.47	54.805	—	0.2	11	8	11.5	3.5	0.60	493-2031-ND	.37	2.59	18.50	UPW2FR47MPD
	1	71.5	—	0.2	16	8	11.5	3.5	0.60	493-2032-ND	.37	2.59	18.50	UPW2F010MPD
	2.2	109.3	—	0.2	28	10	12.5	5.0	0.60	493-2033-ND	.42	2.94	21.00	UPW2F2R2MPD
	3.3	143.95	—	0.2	34	10	12.5	5.0	0.60	493-2034-ND	.45	3.12	22.25	UPW2F3R3MPD
	4.7	188.05	—	0.2	45	10	16.0	5.0	0.60	493-2035-ND	.58	4.06	29.00	UPW2F4R7MPD
	10	355	—	0.2	72	10	20.0	5.0	0.60	493-2036-ND	.61	4.45	32.67	UPW2F100MPD
	22	733	—	0.2	120	12.5	25.0	5.0	0.60	493-2037-ND	.77	5.63	41.36	UPW2F220MHD
	33	1079.5	—	0.2	155	16	25.0	7.5	0.80	493-2038-ND	1.20	9.21	69.08	UPW2F330MHD
	47	1520.5	—	0.2	190	16	35.5	7.5	0.80	493-2039-ND	1.82	13.98	104.85	UPW2F470MHD
	100	3190	—	0.2	285	18	40.0	7.5	0.80	493-2040-ND	2.19	16.62	131.67	UPW2F101MHD
	100	3190	—	0.2	285	20	35.0	10.0	1.00	493-2041-ND	2.19	16.62	131.67	UPW2F101MRD6
	220	6970	—	0.2	540	22	50.0	10.0	1.00	493-2042-ND	5.36	40.55	321.30	UPW2F221MRD
350	0.47	56.45	—	0.2	11	8	11.5	3.5	0.60	493-2043-ND	.38	2.63	18.75	UPW2VR47MPD
	1	75	—	0.2	17	10	12.5	5.0	0.60	493-2044-ND	.42	2.94	21.00	UPW2V010MPD
	2.2	117	—	0.2	31	10	16.0	5.0	0.60	493-2045-ND	.46	3.19	22.75	UPW2V2R2MPD
	3.3	155.5	—	0.2	38	10	16.0	5.0	0.60	493-2046-ND	.54	3.78	27.00	UPW2V3R3MPD
	4.7	204.5	—	0.2	49	10	20.0	5.0	0.60	493-2047-ND	.64	4.45	31.75	UPW2V4R7MPD
	10	390	—	0.2	82	12.5	20.0	5.0	0.60	493-2048-ND	.79	5.76	42.30	UPW2V100MHD
	22	810	—	0.2	130	16	25.0	7.5	0.80	493-2049-ND	1.14	8.76	65.70	UPW2V220MHD
	33	1195	—	0.2	160	16	31.5	7.5	0.80	493-2050-ND	1.41	10.83	81.23	UPW2V330MHD
	47	1685	—	0.2	200	18	35.5	7.5	0.80	493-2051-ND	1.88	14.23	112.77	UPW2V470MHD
	47	1685	—	0.2	200	20	31.0	10.0	1.00	493-2052-ND	1.88	14.23	112.77	UPW2V470MRD6
	100	3540	—	0.2	290	20	40.0	10.0	1.00	493-2053-ND	2.57	19.45	154.14	UPW2V101MRD
	220	7740	—	0.2	550	25	50.0	12.5	1.00	493-2054-ND	6.22	47.06	372.96	UPW2V221MRD
400	1	80	—	0.25	16	10	12.5	5.0	0.60	493-2055-ND	.47	3.26	23.25	UPW2G010MPD
	2.2	128	—	0.25	27	10	16.0	5.0	0.60	493-2056-ND	.55	3.85	27.50	UPW2G2R2MPD
	3.3	172	—	0.25	36	10	20.0	5.0	0.60	493-2057-ND	.64	4.45	31.75	UPW2G3R3MPD
	4.7	228	—	0.25	43	10	20.0	5.0	0.60	493-2058-ND	.74	5.38	39.48	UPW2G4R7MPD
	10	440	—	0.25	72	12.5	25.0	5.0	0.60	493-2059-ND	.87	6.34	46.53	UPW2G100MHD
	22	920	—	0.25	110	16	25.0	7.5	0.80	493-2060-ND	1.33	10.20	76.50	UPW2G220MHD
	33	1360	—	0.25	140	16	31.5	7.5	0.80	493-2061-ND	1.82	13.98	104.85	UPW2G330MHD
	47	1920	—	0.25	170	18	35.5	7.5	0.80	493-2062-ND	2.19	16.56	131.25	UPW2G470MHD
	47	1920	—	0.25	170	20	31.0	10.0	1.00	493-2063-ND	2.19	16.56	131.25	UPW2G470MRD6
	100	4040	—	0.25	350	22	50.0	10.0	1.00	493-2064-ND	4.03	30.50	241.71	UPW2G101MRD
450	1	85	—	0.25	18	10	12.5	5.0	0.60	493-2065-ND	.47	3.29	23.50	UPW2W010MPD
	2.2	139	—	0.25	29	10	20.0	5.0	0.60	493-2066-ND	.64	4.45	31.75	UPW2W2R2MPD
	3.3	188.5	—	0.25	41	12.5	20.0	5.0	0.60	493-2067-ND	.74	5.38	39.48	UPW2W3R3MHD
	4.7	251.5	—	0.25	49	12.5	20.0	5.0	0.60	493-2068-ND	.83	6.02	44.18	UPW2W4R7MHD
	10	490	—	0.25	75	16	25.0	7.5	0.80	493-2069-ND	1.14	8.76	65.70	UPW2W100MHD
	22	1030	—	0.25	115	16	31.5	7.5	0.80	493-2070-ND	1.58	12.12	90.90	UPW2W220MHD
	33	1525	—	0.25	145	18	35.5	7.5	0.80	493-2071-ND	2.19	16.56	131.25	UPW2W330MHD
	33	1525	—	0.25	145	20	31.0	10.0	1.00	493-2072-ND	2.19	16.56	131.25	UPW2W330MRD6
	47	2155	—	0.25	175	20	40.0	10.0	1.00	493-2073-ND	2.57	19.45	154.14	UPW2W470MRD
	100	4540	—	0.25	350	25	50.0	12.5	1.00	493-2074-ND	5.47	41.45	328.44	UPW2W101MRD

nichicon HE Series Aluminum Electrolytic Capacitors (Radial Lead)

Extremely Low Impedance, High Reliability 105°C

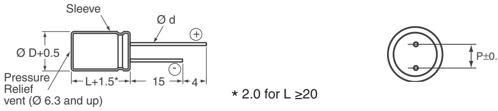

* 2.0 for L ≥20

FEATURES: • Miniature sized • Extremely low impedance • High reliability and long life withstanding 4,000 hours to 10,000 hours.

SPECIFICATIONS:

Temperature Range	-40°C ~ 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C

- **Leakage Current:** After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.
- **tan δ:** For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. Measurement frequency: 120Hz, Temperature: 20°C.

Rated Voltage (V)	6.3	10	16	25	35	50	63	100
tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

- **Stability at Low Temperature:** Measurement frequency: 120Hz

Rated Voltage (V)		6.3	10	16	25	35	50	63	100
Impedance ratio	Z-20°C / Z+20°C	4	3	2	2	2	2	2	2
ZT / Z20 (Max.)	Z-40°C / Z+20°C	8	6	4	3	3	3	3	3

- **Endurance:** After an application of D.C bias voltage plus the rated ripple current for stated hours in the below chart at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors shall meet the following requirements.

Case Size		ϕD ≤ 6.3	ϕD = 8,10	ϕD ≥ 12.5
Rated Voltage (V)	6.3 to 10WV	4,000 hours	6,000 hours	8,000 hours
	16 to 100WV	5,000 hours	7,000 hours	10,000 hours
Capacitance Change	Within ±25% of initial value			
tan δ	200% or less of initial specified value			
Leakage Current	Initial specified value or less			

- **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.
- **Marking:** Printed with white color letter on black sleeve.

Rated Voltage (VDC)	Cap. (μF)	Leakage Current (μA)	Impedance ohms (Ω) Max. @ 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @ 100kHz/105°C (mA) rms	Dimensions – mm				Digi-Key Part No.	Pricing			Nichicon Part No.
						ØD	L	P	ød		1	10	100	
6.3	150	9.45	0.58	0.22	210	5.0	11.0	2.0	0.5	493-1463-ND	.22	1.46	10.36	UHE0J151MDD
	330	20.79	0.22	0.22	340	6.3	11.0	2.5	0.5	493-1464-ND	.29	1.92	13.69	UHE0J331MED
	680	42.84	0.13	0.22	640	8.0	11.5	3.5	0.6	493-1465-ND	.32	2.24	16.24	UHE0J681MPD
	820	51.66	0.080	0.22	865	10.0	12.5	5.0	0.6	493-1466-ND	.33	2.32	16.82	UHE0J821MPD
	1000	63	0.087	0.22	840	8.0	15.0	3.5	0.6	493-1467-ND	.24	1.68	12.18	UHE0J102MPD
	1200	75.6	0.069	0.22	1050	8.0	20.0	3.5	0.6	493-1468-ND	.35	2.45	17.50	UHE0J122MPD
	1200	75.6	0.060	0.22	1210	10.0	16.0	5.0	0.6	493-1469-ND	.35	2.45	17.50	UHE0J122MPD6
	1500	94.5	0.046	0.22	1400	10.0	20.0	5.0	0.6	493-1470-ND	.38	2.66	19.00	UHE0J152MPD
	1800	113.4	0.049	0.22	1450	12.5	15.0	5.0	0.6	493-1471-ND	.41	2.87	20.50	UHE0J182MHD
	2200	138.6	0.042	0.24	1650	10.0	25.0	5.0	0.6	493-1472-ND	.50	3.47	24.75	UHE0J222MPD
	2700	170.1	0.031	0.24	1910	10.0	31.5	5.0	0.6	493-1473-ND	.64	4.48	32.00	UHE0J272MPD6
	2700	170.1	0.042	0.24	1940	16.0	15.0	7.5	0.8	493-1474-ND	.64	4.48	32.00	UHE0J272MHD
	3300	207.9	0.035	0.26	1900	12.5	20.0	5.0	0.6	493-1475-ND	.58	4.22	31.02	UHE0J332MHD
	3900	245.7	0.027	0.26	2230	12.5	25.0	5.0	0.6	493-1476-ND	.69	4.99	36.66	UHE0J392MHD
	3900	245.7	0.043	0.26	2210	18.0	15.0	7.5	0.8	493-1477-ND	.69	4.99	36.66	UHE0J392MHD6
	4700	296.1	0.024	0.28	2650	12.5	31.5	5.0	0.8	493-1478-ND	.70	5.12	37.60	UHE0J472MHD
	5600	352.8	0.020	0.3	2880	12.5	35.5	5.0	0.8	493-1479-ND	.89	6.46	47.47	UHE0J562MHD
	5600	352.8	0.027	0.3	2530	16.0	20.0	7.5	0.8	493-1480-ND	.89	6.46	47.47	UHE0J562MHD6
	6800	428.4	0.017	0.32	3350	12.5	40.0	5.0	0.8	493-1481-ND	.90	6.56	48.18	UHE0J682MHD
	6800	428.4	0.021	0.32	2930	16.0	25.0	7.5	0.8	493-1482-ND	.90	6.56	48.18	UHE0J682MHD6
	6800	428.4	0.026	0.32	2860	18.0	20.0	7.5	0.8	493-1483-ND	.90	6.56	48.18	UHE0J682MHD3
	8200	516.6	0.017	0.36	3450	16.0	31.5	7.5	0.8	493-1484-ND	1.16	8.94	67.05	UHE0J822MHD
	10000	630	0.015	0.4	3610	16.0	35.5	7.5	0.8	493-1485-ND	1.16	8.94	67.05	UHE0J103MHD
	10000	630	0.019	0.4	3140	18.0	25.0	7.5	0.8	493-1486-ND	1.16	8.94	67.05	UHE0J103MHD6
	12000	756	0.013	0.44	4080	16.0	40.0	7.5	0.8	493-1487-ND	1.36	10.44	78.30	UHE0J123MHD
	12000	756	0.015	0.44	4170	18.0	31.5	7.5	0.8	493-1488-ND	1.36	10.44	78.30	UHE0J123MHD6
	15000	945	0.014	0.5	4220	18.0	35.5	7.5	0.8	493-1489-ND	1.44	11.04	82.80	UHE0J153MHD
	18000	1134	0.012	0.56	4280	18.0	40.0	7.5	0.8	493-1490-ND	1.52	11.67	87.53	UHE0J183MHD
10	100	10	0.58	0.19	210	5.0	11.0	2.0	0.5	493-1491-ND	.20	1.30	9.25	UHE1A101MDD
	220	22	0.22	0.19	340	6.3	11.0	2.5	0.5	493-1492-ND	.30	2.03	14.43	UHE1A221MED
	470	47	0.13	0.19	640	8.0	11.5	3.5	0.6	493-1493-ND	.32	2.24	16.24	UHE1A471MPD
	680	68	0.087	0.19	840	8.0	15.0	3.5	0.6	493-1494-ND	.33	2.32	16.82	UHE1A681MPD
	680	68	0.080	0.19	865	10.0	12.5	5.0	0.6	493-1495-ND	.33	2.32	16.82	UHE1A681MPD6
	1000	100	0.069	0.19	1050	8.0	20.0	3.5	0.6	493-1496-ND	.39	2.70	19.25	UHE1A102MPD
	1000	100	0.060	0.19	1210	10.0	16.0	5.0	0.6	493-1497-ND	.39	2.70	19.25	UHE1A102MPD6
	1200	120	0.046	0.19	1400	10.0	20.0	5.0	0.6	493-1498-ND	.44	3.08	22.00	UHE1A122MPD
	1500	150	0.042	0.19	1650	10.0	25.0	5.0	0.6	493-1499-ND	.46	3.19	22.75	UHE1A152MPD
	1500	150	0.049	0.19	1450	12.5	15.0	5.0	0.6	493-1500-ND	.46	3.19	22.75	UHE1A152MHD6
	2200	220	0.031	0.21	1910	10.0	31.5	5.0	0.6	493-1501-ND	.64	4.48	32.00	UHE1A222MPD
	2200	220	0.035	0.21	1900	12.5	20.0	5.0	0.6	493-1502-ND	.64	4.48	32.00	UHE1A222MHD6
	2200	220	0.042	0.21	1940	16.0	15.0	7.5	0.8	493-1503-ND	.64	4.48	32.00	UHE1A222MHD3
	2700	270	0.043	0.21	2210	18.0	15.0	7.5	0.8	493-1504-ND	.63	4.61	33.84	UHE1A272MHD
	3300	330	0.027	0.23	2230	12.5	25.0	5.0	0.6	493-1505-ND	.69	4.99	36.66	UHE1A332MHD
	3900	390	0.024	0.23	2650	12.5	31.5	5.0	0.8	493-1506-ND	.89	6.46	47.47	UHE1A392MHD
	3900	390	0.027	0.23	2530	16.0	20.0	7.5	0.8	493-1507-ND	.89	6.46	47.47	UHE1A392MHD6
	4700	470	0.020	0.25	2880	12.5	35.5	5.0	0.8	493-1508-ND	.89	6.46	47.47	UHE1A472MHD
	5600	560	0.017	0.27	3350	12.5	40.0	5.0	0.8	493-1509-ND	1.10	8.49	63.68	UHE1A562MHD
	5600	560	0.021	0.27	2930	16.0	25.0	7.5	0.8	493-1510-ND	1.10	8.49	63.68	UHE1A562MHD6
	5600	560	0.026	0.27	2860	18.0	20.0	7.5	0.8	493-1511-ND	1.10	8.49	63.68	UHE1A562MHD3
	6800	680	0.017	0.29	3450	16.0	31.5	7.5	0.8	493-1512-ND	1.16	8.94	67.05	UHE1A682MHD
	6800	680	0.019	0.29	3140	18.0	25.0	7.5	0.8	493-1513-ND	1.16	8.94	67.05	UHE1A682MHD6
	8200	820	0.015	0.33	3610	16.0	35.5	7.5	0.8	493-1514-ND	1.36	10.44	78.30	UHE1A822MHD
	8200	820	0.015	0.33	4170	18.0	31.5	7.5	0.8	493-1515-ND	1.36	10.44	78.30	UHE1A822MHD6
	10000	1000	0.013	0.37	4080	16.0	40.0	7.5	0.8	493-1516-ND	1.42	10.95	82.13	UHE1A103MHD
	10000	1000	0.014	0.37	4220	18.0	35.5	7.5	0.8	493-1517-ND	1.42	10.95	82.13	UHE1A103MHD6
	12000	1200	0.012	0.41	4280	18.0	40.0	7.5	0.8	493-1518-ND	1.51	11.58	86.85	UHE1A123MHD
16	56	8.96	0.58	0.16	210	5.0	11.0	2.0	0.5	493-1519-ND	.24	1.61	11.47	UHE1C560MDD
	120	19.2	0.22	0.16	340	6.3	11.0	2.5	0.5	493-1520-ND	.24	1.61	11.47	UHE1C121MED
	330	52.8	0.13	0.16	640	8.0	11.5	3.5	0.6	493-1521-ND	.33	2.32	16.82	UHE1C331MPD

(Continued)

Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	Impedance ohms (Ω) Max. @ 20°C/100kHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @ 100KHz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
						ØD	L	P	ød		1	10	100	
16	470	75.2	0.087	0.16	840	8.0	15.0	3.5	0.6	493-1522-ND	.35	2.40	17.40	UHE1C471MPD
	470	75.2	0.080	0.16	865	10.0	12.5	5.0	0.6	493-1523-ND	.35	2.40	17.40	UHE1C471MPD6
	680	108.8	0.069	0.16	1050	8.0	20.0	3.5	0.6	493-1524-ND	.44	3.08	22.00	UHE1C681MPD
	680	108.8	0.060	0.16	1210	10.0	16.0	5.0	0.6	493-1525-ND	.44	3.08	22.00	UHE1C681MPD6
	1000	160	0.046	0.16	1400	10.0	20.0	5.0	0.6	493-1526-ND	.50	3.47	24.75	UHE1C102MPD
	1000	160	0.049	0.16	1450	12.5	15.0	5.0	0.6	493-1527-ND	.50	3.47	24.75	UHE1C102MHD6
	1200	192	0.042	0.16	1650	10.0	25.0	5.0	0.6	493-1528-ND	.46	3.19	22.75	UHE1C122MPD
	1500	240	0.031	0.16	1910	10.0	31.5	5.0	0.6	493-1529-ND	.59	4.26	31.26	UHE1C152MPD
	1500	240	0.035	0.16	1900	12.5	20.0	5.0	0.6	493-1530-ND	.59	4.26	31.26	UHE1C152MHD6
	1500	240	0.042	0.16	1940	16.0	15.0	7.5	0.8	493-1531-ND	.59	4.26	31.26	UHE1C152MHD3
	2200	352	0.027	0.18	2230	12.5	25.0	5.0	0.6	493-1532-ND	.71	5.18	38.07	UHE1C222MHD
	2200	352	0.043	0.18	2210	18.0	15.0	7.5	0.8	493-1533-ND	.71	5.18	38.07	UHE1C222MHD6
	2700	432	0.024	0.18	2650	12.5	31.5	5.0	0.8	493-1534-ND	.89	6.46	47.47	UHE1C272MHD
	2700	432	0.027	0.18	2530	16.0	20.0	7.5	0.8	493-1535-ND	.89	6.46	47.47	UHE1C272MHD6
	3300	528	0.020	0.20	2880	12.5	35.5	5.0	0.8	493-1536-ND	.92	6.72	49.35	UHE1C332MHD
	3900	624	0.017	0.20	3350	12.5	40.0	5.0	0.8	493-1537-ND	.92	6.72	49.35	UHE1C392MHD
	3900	624	0.021	0.20	2930	16.0	25.0	7.5	0.8	493-1538-ND	.92	6.72	49.35	UHE1C392MHD6
	3900	624	0.026	0.20	2860	16.0	20.0	7.5	0.8	493-1539-ND	.92	6.72	49.35	UHE1C392MHD3
	4700	752	0.017	0.22	3450	16.0	31.5	7.5	0.8	493-1540-ND	1.10	8.49	63.68	UHE1C472MHD
	4700	752	0.019	0.22	3140	18.0	25.0	7.5	0.8	493-1541-ND	1.10	8.49	63.68	UHE1C472MHD6
	5600	896	0.015	0.24	3610	16.0	35.5	7.5	0.8	493-1542-ND	1.36	10.44	78.30	UHE1C562MHD
	5600	896	0.015	0.24	4170	18.0	31.5	7.5	0.8	493-1543-ND	1.36	10.44	78.30	UHE1C562MHD6
	6800	1088	0.013	0.26	4080	16.0	40.0	7.5	0.8	493-1544-ND	1.42	10.95	82.13	UHE1C682MHD
	8200	1312	0.014	0.30	4220	18.0	35.5	7.5	0.8	493-1545-ND	1.42	10.95	82.13	UHE1C822MHD
	10000	1600	0.012	0.34	4280	18.0	40.0	7.5	0.8	493-1546-ND	1.74	13.35	100.13	UHE1C103MHD
25	47	11.75	0.58	0.14	210	5.0	11.0	2.0	0.5	493-1547-ND	.24	1.61	11.47	UHE1E470MDD
	100	25	0.22	0.14	340	6.3	11.0	2.5	0.5	493-1548-ND	.24	1.64	11.89	UHE1E101MED
	220	55	0.13	0.14	640	8.0	11.5	3.5	0.6	493-1549-ND	.33	2.32	16.82	UHE1E221MPD
	330	82.5	0.087	0.14	840	8.0	15.0	3.5	0.6	493-1550-ND	.32	2.20	15.95	UHE1E331MPD
	330	82.5	0.080	0.14	865	10.0	12.5	5.0	0.6	493-1551-ND	.32	2.20	15.95	UHE1E331MPD6
	470	117.5	0.069	0.14	1050	8.0	20.0	3.5	0.6	493-1552-ND	.44	3.08	22.00	UHE1E471MPD
	470	117.5	0.06	0.14	1210	10.0	16.0	5.0	0.6	493-1553-ND	.44	3.08	22.00	UHE1E471MPD6
	680	170	0.046	0.14	1400	10.0	20.0	5.0	0.6	493-1554-ND	.51	3.57	25.50	UHE1E681MPD
	680	170	0.049	0.14	1450	12.5	15.0	5.0	0.6	493-1555-ND	.51	3.57	25.50	UHE1E681MHD6
	820	205	0.042	0.14	1650	10.0	25.0	5.0	0.6	493-1556-ND	.52	3.61	25.75	UHE1E821MPD
	1000	250	0.031	0.14	1910	10.0	31.5	5.0	0.6	493-1557-ND	.58	4.22	31.02	UHE1E102MPD
	1000	250	0.035	0.14	1900	12.5	20.0	5.0	0.6	493-1558-ND	.58	4.22	31.02	UHE1E102MHD6
	1000	250	0.042	0.14	1940	16.0	15.0	7.5	0.8	493-1559-ND	.58	4.22	31.02	UHE1E102MHD3
	1200	300	0.043	0.14	2210	18.0	15.0	7.5	0.8	493-1560-ND	.66	4.77	35.02	UHE1E122MHD
	1500	375	0.027	0.14	2230	12.5	25.0	5.0	0.6	493-1561-ND	.71	5.18	38.07	UHE1E152MHD
	1800	450	0.024	0.14	2650	12.5	31.5	5.0	0.8	493-1562-ND	.89	6.46	47.47	UHE1E182MHD
	1800	450	0.027	0.14	2530	16.0	20.0	7.5	0.8	493-1563-ND	.89	6.46	47.47	UHE1E182MHD6
	2200	550	0.020	0.16	2880	12.5	35.5	5.0	0.8	493-1564-ND	.92	6.72	49.35	UHE1E222MHD
	2200	550	0.026	0.16	2860	18.0	20.0	7.5	0.8	493-1565-ND	.92	6.72	49.35	UHE1E222MHD6
	2700	675	0.017	0.16	3350	12.5	40.0	5.0	0.8	493-1566-ND	.95	6.91	50.76	UHE1E272MHD
	2700	675	0.021	0.16	2930	16.0	25.0	7.5	0.8	493-1567-ND	.95	6.91	50.76	UHE1E272MHD6
	3300	825	0.017	0.18	3450	16.0	31.5	7.5	0.8	493-1568-ND	1.11	8.55	64.13	UHE1E332MHD
	3300	825	0.019	0.18	3140	18.0	25.0	7.5	0.8	493-1569-ND	1.11	8.55	64.13	UHE1E332MHD6
	3900	975	0.015	0.18	3610	16.0	35.5	7.5	0.8	493-1570-ND	1.36	10.44	78.30	UHE1E392MHD
	3900	975	0.015	0.18	4170	18.0	31.5	7.5	0.8	493-1571-ND	1.36	10.44	78.30	UHE1E392MHD6
	4700	1175	0.013	0.20	4080	16.0	40.0	7.5	0.8	493-1572-ND	1.36	10.44	78.30	UHE1E472MHD
	4700	1175	0.014	0.20	4220	18.0	35.5	7.5	0.8	493-1573-ND	1.36	10.44	78.30	UHE1E472MHD6
	5600	1400	0.012	0.22	4280	18.0	40.0	7.5	0.8	493-1574-ND	1.74	13.35	100.13	UHE1E562MHD
35	33	11.55	0.58	0.12	210	5.0	11.0	2.0	0.5	493-1575-ND	.24	1.61	11.47	UHE1V330MDD
	56	19.6	0.22	0.12	340	6.3	11.0	2.5	0.5	493-1576-ND	.23	1.60	11.60	UHE1V560MED
	150	52.5	0.13	0.12	640	8.0	11.5	3.5	0.6	493-1577-ND	.26	1.84	13.34	UHE1V151MPD
	220	77	0.087	0.12	840	8.0	15.0	3.5	0.6	493-1578-ND	.37	2.56	18.56	UHE1V221MPD
	220	77	0.080	0.12	865	10.0	12.5	5.0	0.6	493-1579-ND	.37	2.56	18.56	UHE1V221MPD6
	270	94.5	0.069	0.12	1050	8.0	20.0	3.5	0.6	493-1580-ND	.44	3.08	22.00	UHE1V271MPD
	330	115.5	0.060	0.12	1210	10.0	16.0	5.0	0.6	493-1581-ND	.44	3.08	22.00	UHE1V331MPD
	470	164.5	0.046	0.12	1400	10.0	20.0	5.0	0.6	493-1582-ND	.51	3.57	25.50	UHE1V471MPD
	470	164.5	0.049	0.12	1450	12.5	15.0	5.0	0.6	493-1583-ND	.51	3.57	25.50	UHE1V471MHD6
	560	196	0.042	0.12	1650	10.0	25.0	5.0	0.6	493-1584-ND	.52	3.61	25.75	UHE1V561MPD
	680	238	0.031	0.12	1910	10.0	31.5	5.0	0.6	493-1585-ND	.58	4.22	31.02	UHE1V681MPD
	680	238	0.035	0.12	1900	12.5	20.0	5.0	0.6	493-1586-ND	.58	4.22	31.02	UHE1V681MHD6
	680	238	0.042	0.12	1940	16.0	15.0	7.5	0.8	493-1587-ND	.58	4.22	31.02	UHE1V681MHD3
	1000	350	0.027	0.12	2230	12.5	25.0	5.0	0.6	493-1588-ND	.71	5.18	38.07	UHE1V102MHD
	1000	350	0.043	0.12	2210	18.0	15.0	7.5	0.8	493-1589-ND	.71	5.18	38.07	UHE1V102MHD6
	1200	420	0.024	0.12	2650	12.5	31.5	5.0	0.8	493-1590-ND	.89	6.46	47.47	UHE1V122MHD
	1200	420	0.027	0.12	2530	16.0	20.0	7.5	0.8	493-1591-ND	.89	6.46	47.47	UHE1V122MHD6
	1500	525	0.020	0.12	2880	12.5	35.5	5.0	0.8	493-1592-ND	.92	6.72	49.35	UHE1V152MHD
	1800	630	0.017	0.12	3350	12.5	40.0	5.0	0.8	493-1593-ND	.92	6.72	49.35	UHE1V182MHD
	1800	630	0.021	0.12	2930	16.0	25.0	7.5	0.8	493-1594-ND	.92	6.72	49.35	UHE1V182MHD6
	1800	630	0.026	0.12	2860	18.0	20.0	7.5	0.8	493-1595-ND	.92	6.72	49.35	UHE1V182MHD3
	2200	770	0.017	0.14	3450	16.0	31.5	7.5	0.8	493-1596-ND	1.11	8.55	64.13	UHE1V222MHD
	2200	770	0.019	0.14	3140	18.0	25.0	7.5	0.8	493-1597-ND	1.11	8.55	64.13	UHE1V222MHD6
	2700	945	0.015	0.14	3610	16.0	35.5	7.5	0.8	493-1598-ND	1.36	10.44	78.30	UHE1V272MHD
	2700	945	0.015	0.14	4170	18.0	31.5	7.5	0.8	493-1599-ND	1.36	10.44	78.30	UHE1V272MHD6
	3300	1155	0.013	0.16	4080	16.0	40.0	7.5	0.8	493-1600-ND	1.36	10.44	78.30	UHE1V332MHD
	3300	1155	0.014	0.16	4220	18.0	35.5	7.5	0.8	493-1601-ND	1.36	10.44	78.30	UHE1V332MHD6
	3900	1365	0.012	0.16	4280	18.0	40.0	7.5	0.8	493-1602-ND	1.75	13.47	101.03	UHE1V392MHD

(Continued)

Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	Impedance ohms (Ω) Max. @ 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @ 100KHz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
						ØD	L	P	ød		1	10	100	
50	22	11	0.70	0.1	180	5.0	11.0	2.0	0.5	493-1603-ND	.24	1.61	11.47	UHE1H220MDD
	56	28	0.30	0.1	295	6.3	11.0	2.5	0.5	493-1604-ND	.24	1.64	11.89	UHE1H560MED
	100	50	0.17	0.1	555	8.0	11.5	3.5	0.6	493-1605-ND	.33	2.32	16.82	UHE1H101MPD
	120	60	0.12	0.1	730	8.0	15.0	3.5	0.6	493-1606-ND	.36	2.52	18.27	UHE1H121MPD
	150	75	0.12	0.1	760	10.0	12.5	5.0	0.6	493-1607-ND	.36	2.52	18.27	UHE1H151MPD
	180	90	0.091	0.1	910	8.0	20.0	3.5	0.6	493-1608-ND	.36	2.49	17.75	UHE1H181MPD
	220	110	0.084	0.1	1050	10.0	16.0	5.0	0.6	493-1609-ND	.38	2.66	19.00	UHE1H221MPD
	270	135	0.060	0.1	1220	10.0	20.0	5.0	0.6	493-1610-ND	.51	3.57	25.50	UHE1H271MPD
	270	135	0.061	0.1	1260	12.5	15.0	5.0	0.6	493-1611-ND	.51	3.57	25.50	UHE1H271MHD6
	330	165	0.055	0.1	1440	10.0	25.0	5.0	0.6	493-1612-ND	.52	3.61	25.75	UHE1H331MPD
	470	235	0.043	0.1	1690	10.0	31.5	5.0	0.6	493-1613-ND	.59	4.32	31.73	UHE1H471MPD
	470	235	0.045	0.1	1660	12.5	20.0	5.0	0.6	493-1614-ND	.59	4.32	31.73	UHE1H471MHD6
	470	235	0.055	0.1	1690	16.0	15.0	7.5	0.8	493-1615-ND	.59	4.32	31.73	UHE1H471MHD3
	560	280	0.034	0.1	1950	12.5	25.0	5.0	0.6	493-1616-ND	.71	5.18	38.07	UHE1H561MHD
	560	280	0.054	0.1	1930	18.0	15.0	7.5	0.8	493-1617-ND	.71	5.18	38.07	UHE1H561MHD6
	680	340	0.030	0.1	2310	12.5	31.5	5.0	0.8	493-1618-ND	.73	5.31	39.01	UHE1H681MHD
	820	410	0.025	0.1	2510	12.5	35.5	5.0	0.8	493-1619-ND	.89	6.46	47.47	UHE1H821MHD
	820	410	0.034	0.1	2210	16.0	20.0	7.5	0.8	493-1620-ND	.89	6.46	47.47	UHE1H821MHD6
	1000	500	0.021	0.1	2920	12.5	40.0	5.0	0.8	493-1621-ND	.89	6.46	47.47	UHE1H102MHD
	1000	500	0.025	0.1	2555	16.0	25.0	7.5	0.8	493-1622-ND	.89	6.46	47.47	UHE1H102MHD6
	1000	500	0.036	0.1	2490	18.0	20.0	7.5	0.8	493-1623-ND	.89	6.46	47.47	UHE1H102MHD3
	1200	600	0.022	0.1	3010	16.0	31.5	7.5	0.8	493-1624-ND	1.10	8.49	63.68	UHE1H122MHD
	1200	600	0.026	0.1	2740	18.0	25.0	7.5	0.8	493-1625-ND	1.10	8.49	63.68	UHE1H122MHD6
	1500	750	0.019	0.1	3150	16.0	35.5	7.5	0.8	493-1626-ND	1.16	8.94	67.05	UHE1H152MHD
	1800	900	0.016	0.1	3710	16.0	40.0	7.5	0.8	493-1627-ND	1.42	10.95	82.13	UHE1H182MHD
	1800	900	0.021	0.1	3635	18.0	31.5	7.5	0.8	493-1628-ND	1.42	10.95	82.13	UHE1H182MHD6
	2200	1100	0.017	0.12	3680	18.0	35.5	7.5	0.8	493-1629-ND	1.46	11.25	84.38	UHE1H222MHD6
	2700	1350	0.014	0.12	3800	18.0	40.0	7.5	0.8	493-1630-ND	1.46	11.25	84.38	UHE1H272MHD
63	15	9.45	2.3	0.09	55	5.0	11.0	2.0	0.5	493-1631-ND	.24	1.61	11.47	UHE1J150MDD
	33	20.79	1.2	0.09	115	6.3	11.0	2.5	0.5	493-1632-ND	.23	1.60	11.60	UHE1J330MED
	56	35.28	0.63	0.09	232	8.0	11.5	3.5	0.6	493-1633-ND	.28	1.92	13.92	UHE1J560MPD
	82	51.66	0.45	0.09	300	8.0	15.0	3.5	0.6	493-1634-ND	.36	2.52	18.27	UHE1J820MPD
	82	51.66	0.43	0.09	288	10.0	12.5	5.0	0.6	493-1635-ND	.36	2.52	18.27	UHE1J820MPD6
	120	75.6	0.33	0.09	362	8.0	20.0	3.5	0.6	493-1636-ND	.38	2.66	19.00	UHE1J121MPD
	120	75.6	0.31	0.09	357	10.0	16.0	5.0	0.6	493-1637-ND	.38	2.66	19.00	UHE1J121MPD6
	180	113.4	0.21	0.09	466	10.0	20.0	5.0	0.6	493-1638-ND	.51	3.57	25.50	UHE1J181MPD
	180	113.4	0.23	0.09	466	12.5	15.0	5.0	0.6	493-1639-ND	.51	3.57	25.50	UHE1J181MHD6
	220	138.6	0.20	0.09	531	10.0	25.0	5.0	0.6	493-1640-ND	.52	3.61	25.75	UHE1J221MPD
	270	170.1	0.15	0.09	663	10.0	31.5	5.0	0.6	493-1641-ND	.60	4.35	31.96	UHE1J271MPD
	270	170.1	0.16	0.09	690	12.5	20.0	5.0	0.6	493-1642-ND	.60	4.35	31.96	UHE1J271MHD6
	270	170.1	0.14	0.09	795	16.0	15.0	7.5	0.8	493-1643-ND	.60	4.35	31.96	UHE1J271MHD3
	330	207.9	0.12	0.09	784	12.5	25.0	5.0	0.8	493-1644-ND	.69	5.02	36.90	UHE1J331MHD
	390	245.7	0.12	0.09	920	18.0	15.0	7.5	0.8	493-1645-ND	.71	5.18	38.07	UHE1J391MHD
	470	296.1	0.10	0.09	905	12.5	31.5	5.0	0.8	493-1646-ND	.73	5.31	39.01	UHE1J471MHD
	470	296.1	0.091	0.09	1040	16.0	20.0	7.5	0.8	493-1647-ND	.73	5.31	39.01	UHE1J471MHD6
	560	352.8	0.083	0.09	1050	12.5	35.5	5.0	0.8	493-1648-ND	.84	6.08	44.65	UHE1J561MHD
	560	352.8	0.073	0.09	1250	16.0	25.0	7.5	0.8	493-1649-ND	.84	6.08	44.65	UHE1J561MHD6
	680	428.4	0.071	0.09	1180	12.5	40.0	5.0	0.8	493-1650-ND	.89	6.46	47.47	UHE1J681MHD
	680	428.4	0.080	0.09	1240	18.0	20.0	7.5	0.8	493-1651-ND	.89	6.46	47.47	UHE1J681MHD6
	820	516.6	0.054	0.09	1570	16.0	31.5	7.5	0.8	493-1652-ND	1.10	8.49	63.68	UHE1J821MHD
	820	516.6	0.057	0.09	1490	18.0	25.0	7.5	0.8	493-1653-ND	1.10	8.49	63.68	UHE1J821MHD6
	1000	630	0.045	0.09	1790	16.0	35.5	7.5	0.8	493-1654-ND	1.10	8.49	63.68	UHE1J102MHD
	1000	630	0.047	0.09	1630	18.0	31.5	7.5	0.8	493-1655-ND	1.10	8.49	63.68	UHE1J102MHD6
	1200	756	0.040	0.09	2020	16.0	40.0	7.5	0.8	493-1656-ND	1.24	9.57	71.78	UHE1J122MHD
	1200	756	0.040	0.09	1790	18.0	35.5	7.5	0.8	493-1657-ND	1.24	9.57	71.78	UHE1J122MHD6
	1500	945	0.036	0.09	2330	18.0	40.0	7.5	0.8	493-1658-ND	1.50	11.52	86.40	UHE1J152MHD
100	6.8	6.8	2.3	0.08	55	5.0	11.0	2.0	0.5	493-1659-ND	.24	1.61	11.47	UHE2A6R8MDD
	15	15	1.2	0.08	115	6.3	11.0	2.5	0.5	493-1660-ND	.23	1.60	11.60	UHE2A150MED
	27	27	0.63	0.08	232	8.0	11.5	3.5	0.6	493-1661-ND	.25	1.72	12.47	UHE2A270MPD
	39	39	0.45	0.08	300	8.0	15.0	3.5	0.6	493-1662-ND	.28	1.92	13.92	UHE2A390MPD
	47	47	0.43	0.08	288	10.0	12.5	5.0	0.6	493-1663-ND	.28	1.92	13.92	UHE2A470MPD
	56	56	0.33	0.08	362	8.0	20.0	3.5	0.6	493-1664-ND	.36	2.52	18.27	UHE2A560MPD
	68	68	0.31	0.08	357	10.0	16.0	5.0	0.6	493-1665-ND	.36	2.52	18.27	UHE2A680MPD
	82	82	0.21	0.08	466	10.0	20.0	5.0	0.6	493-1666-ND	.36	2.52	18.27	UHE2A820MPD
	82	82	0.23	0.08	466	12.5	15.0	5.0	0.6	493-1667-ND	.36	2.52	18.27	UHE2A820MHD6
	100	100	0.20	0.08	531	10.0	25.0	5.0	0.6	493-1668-ND	.38	2.64	19.14	UHE2A101MPD
	120	120	0.15	0.08	663	10.0	31.5	5.0	0.6	493-1669-ND	.42	2.91	20.75	UHE2A121MPD
	120	120	0.16	0.08	690	12.5	20.0	5.0	0.6	493-1670-ND	.42	2.91	20.75	UHE2A121MHD6
	150	150	0.14	0.08	795	16.0	15.0	7.5	0.8	493-1671-ND	.52	3.61	25.75	UHE2A151MHD
	180	180	0.12	0.08	784	12.5	25.0	5.0	0.6	493-1672-ND	.52	3.61	25.75	UHE2A181MHD
	180	180	0.12	0.08	920	18.0	15.0	7.5	0.8	493-1673-ND	.52	3.61	25.75	UHE2A181MHD6
	220	220	0.10	0.08	905	12.5	31.5	5.0	0.8	493-1674-ND	.58	4.19	30.79	UHE2A221MHD
	220	220	0.091	0.08	1040	16.0	20.0	7.5	0.8	493-1675-ND	.58	4.19	30.79	UHE2A221MHD6
	270	270	0.083	0.08	1050	12.5	35.5	5.0	0.8	493-1676-ND	.60	4.35	31.96	UHE2A271MHD
	270	270	0.073	0.08	1250	16.0	25.0	7.5	0.8	493-1677-ND	.60	4.35	31.96	UHE2A271MHD6
	330	330	0.071	0.08	1180	12.5	40.0	5.0	0.8	493-1678-ND	1.08	8.34	62.55	UHE2A331MHD
	330	330	0.080	0.08	1240	18.0	20.0	7.5	0.8	493-1679-ND	1.08	8.34	62.55	UHE2A331MHD6
	390	390	0.054	0.08	1570	16.0	31.5	7.5	0.8	493-1680-ND	1.10	8.49	63.68	UHE2A391MHD
	390	390	0.057	0.08	1490	18.0	25.0	7.5	0.8	493-1681-ND	1.10	8.49	63.68	UHE2A391MHD6
	470	470	0.045	0.08	1790	16.0	35.5	7.5	0.8	493-1682-ND	1.10	8.49	63.68	UHE2A471MHD
	470	470	0.047	0.08	1630	18.0	31.5	7.5	0.8	493-1683-ND	1.10	8.49	63.68	UHE2A471MHD6
	560	560	0.040	0.08	2020	16.0	40.0	7.5	0.8	493-1684-ND	1.24	9.57	71.78	UHE2A561MHD
	680	680	0.040	0.08	1790	18.0	35.5	7.5	0.8	493-1685-ND	1.24	9.57	71.78	UHE2A681MHD
	820	820	0.036	0.08	2330	18.0	40.0	7.5	0.8	493-1686-ND	1.50	11.52	86.40	UHE2A821MHD

nichicon

Snap-in Aluminum Electrolytic Capacitors

RoHS COMPLIANT

Specification: Capacitance Tolerance: ±20%

LS Series:

Temperature Range: -40°C ~ 85°C (160 ~ 250V), -25°C ~ 85°C (400 ~ 450V)

GU Series:

Temperature Range: -40°C ~ 105°C (160 ~ 250V), -25°C ~ 105°C (400 ~ 450V)

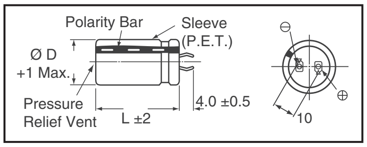

LS Series

W.V. (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Rated Ripple Current @85°C (mA)	Digi-Key Part No.	Pricing			Nichicon Part No.
						1	10	100	
160	270	20 x 25	0.15	1280	493-2443-ND	1.88	14.23	112.77	LLS2C271MELY
	330	20 x 25	0.15	1550	493-2444-ND	2.05	15.53	123.06	LLS2C331MELY
	390	20 x 30	0.15	1630	493-2445-ND	2.22	16.83	133.35	LLS2C391MELY
	390	22 x 25	0.15	1630	493-2446-ND	2.22	16.83	133.35	LLS2C391MELZ
	470	20 x 30	0.15	1900	493-2447-ND	2.36	17.89	141.75	LLS2C471MELY
	470	22 x 30	0.15	1860	493-2448-ND	2.36	17.89	141.75	LLS2C471MELZ
	470	25 x 25	0.15	1860	493-2449-ND	2.48	18.76	148.68	LLS2C471MELA
	560	20 x 35	0.15	2140	493-2450-ND	2.53	19.16	151.83	LLS2C561MELY
	560	22 x 30	0.15	2150	493-2451-ND	2.53	19.16	151.83	LLS2C561MELZ
	560	25 x 25	0.15	2150	493-2452-ND	2.64	20.01	158.55	LLS2C561MELA
	680	20 x 40	0.15	2350	493-2453-ND	3.02	22.84	181.02	LLS2C681MELY
	680	22 x 35	0.15	2350	493-2454-ND	3.02	22.84	181.02	LLS2C681MELZ
	680	25 x 30	0.15	2330	493-2455-ND	2.96	22.42	177.66	LLS2C681MELA
	680	30 x 25	0.15	2330	493-2456-ND	3.20	24.19	191.73	LLS2C681MELB
	820	22 x 40	0.15	2680	493-2457-ND	3.20	24.19	191.73	LLS2C821MELZ
	820	25 x 30	0.15	2650	493-2458-ND	3.32	25.12	199.08	LLS2C821MELA
	820	30 x 25	0.15	2640	493-2459-ND	3.53	26.74	211.89	LLS2C821MELB
	1000	22 x 45	0.15	3020	493-2460-ND	3.78	28.59	226.59	LLS2C102MELZ
	1000	25 x 35	0.15	3000	493-2461-ND	3.80	28.75	227.85	LLS2C102MELA
	1000	30 x 30	0.15	2960	493-2462-ND	4.04	30.58	242.34	LLS2C102MELB
	1200	25 x 40	0.15	3430	493-2464-ND	4.15	31.43	249.06	LLS2C122MELA
	1200	30 x 30	0.15	3410	493-2465-ND	4.39	33.23	263.34	LLS2C122MELB
	1200	35 x 25	0.15	3400	493-2466-ND	4.75	35.99	285.18	LLS2C122MELC
	1500	25 x 50	0.15	3960	493-2467-ND	4.84	36.65	290.43	LLS2C152MELA
	1500	30 x 35	0.15	3960	493-2468-ND	5.10	38.64	306.18	LLS2C152MELB
	1500	35 x 30	0.15	3940	493-2469-ND	5.35	40.52	321.09	LLS2C152MELC
	1800	30 x 40	0.15	4310	493-2470-ND	6.19	46.85	371.28	LLS2C182MELB
	1800	35 x 35	0.15	4280	493-2471-ND	6.02	45.55	360.99	LLS2C182MELC
	2200	30 x 50	0.15	4960	493-2472-ND	7.28	55.12	436.80	LLS2C222MELB
	2200	35 x 40	0.15	4960	493-2473-ND	7.01	53.08	420.63	LLS2C222MELC
	2700	35 x 45	0.15	5570	493-2474-ND	8.95	67.73	536.76	LLS2C272MELC
180	270	20 x 25	0.15	1290	493-2475-ND	2.09	15.79	125.16	LLS2Z271MELY
	330	22 x 30	0.15	1770	493-2476-ND	2.09	15.79	125.16	LLS2Z331MELY
	330	22 x 25	0.15	1770	493-2477-ND	2.09	15.79	125.16	LLS2Z331MELZ
	390	20 x 30	0.15	1840	493-2478-ND	2.27	17.17	136.08	LLS2Z391MELY
	390	22 x 25	0.15	1840	493-2479-ND	2.27	17.17	136.08	LLS2Z391MELZ
	470	20 x 35	0.15	1910	493-2480-ND	2.55	19.29	152.88	LLS2Z471MELY
	470	22 x 30	0.15	1910	493-2481-ND	2.55	19.29	152.88	LLS2Z471MELZ
	470	25 x 25	0.15	2080	493-2482-ND	2.64	19.98	158.34	LLS2Z471MELA
	560	20 x 40	0.15	2150	493-2483-ND	2.82	21.39	169.47	LLS2Z561MELY
	560	22 x 35	0.15	2250	493-2484-ND	2.82	21.39	169.47	LLS2Z561MELZ
	560	25 x 25	0.15	2150	493-2485-ND	2.92	22.10	175.14	LLS2Z561MELA
	680	22 x 35	0.15	2480	493-2486-ND	3.24	24.57	194.67	LLS2Z681MELZ
	680	25 x 30	0.15	2500	493-2487-ND	3.34	25.25	200.13	LLS2Z681MELA
	680	30 x 25	0.15	2460	493-2488-ND	3.57	27.00	213.99	LLS2Z681MELB
	820	22 x 40	0.15	2860	493-2489-ND	3.71	28.06	222.39	LLS2Z821MELZ
	820	25 x 35	0.15	2750	493-2490-ND	3.80	28.75	227.85	LLS2Z821MELA
	820	30 x 25	0.15	2690	493-2491-ND	3.98	30.16	238.98	LLS2Z821MELB
	1000	22 x 20	0.15	3100	493-2492-ND	3.88	29.39	232.89	LLS2Z102MELZ
	1000	25 x 40	0.15	3060	493-2493-ND	4.31	32.62	258.51	LLS2Z102MELA
	1000	30 x 30	0.15	3100	493-2494-ND	4.54	34.37	272.37	LLS2Z102MELB
	1200	25 x 45	0.15	3630	493-2495-ND	4.96	37.52	297.36	LLS2Z122MELA
	1200	30 x 35	0.15	3550	493-2496-ND	5.18	39.25	311.01	LLS2Z122MELB
	1200	35 x 30	0.15	3490	493-2497-ND	5.47	41.39	328.02	LLS2Z122MELC
	1500	30 x 40	0.15	4100	493-2498-ND	5.93	44.92	355.95	LLS2Z152MELB
	1500	35 x 35	0.15	4020	493-2499-ND	6.35	48.07	380.94	LLS2Z152MELC
	1800	30 x 45	0.15	4550	493-2500-ND	6.92	52.36	414.96	LLS2Z182MELB
	1800	35 x 35	0.15	4540	493-2501-ND	7.32	55.39	438.90	LLS2Z182MELC
	2200	35 x 40	0.15	4830	493-2502-ND	8.57	64.87	514.08	LLS2Z222MELC
	2700	35 x 50	0.15	5300	493-2503-ND	9.79	74.15	587.58	LLS2Z272MELC
200	220	20 x 25	0.15	1190	493-2504-ND	2.05	15.53	123.06	LLS2D221MELY
	270	20 x 25	0.15	1390	493-2505-ND	2.09	15.79	125.16	LLS2D271MELY
	270	22 x 25	0.15	1370	493-2506-ND	2.22	16.83	133.35	LLS2D271MELZ
	330	20 x 30	0.15	1560	493-2507-ND	2.27	17.17	136.08	LLS2D331MELY
	330	22 x 25	0.15	1510	493-2508-ND	2.36	17.89	141.75	LLS2D331MELZ
	390	20 x 35	0.15	1740	493-2509-ND	2.59	19.64	155.61	LLS2D391MELY
	390	22 x 30	0.15	1730	493-2510-ND	2.59	19.64	155.61	LLS2D391MELZ
	390	25 x 25	0.15	1710	493-2511-ND	2.71	20.51	162.54	LLS2D391MELA
	470	20 x 35	0.15	2030	493-2512-ND	2.72	20.59	163.17	LLS2D471MELY
	470	22 x 30	0.15	1970	493-2513-ND	2.72	20.59	163.17	LLS2D471MELZ
	470	25 x 25	0.15	1950	493-2514-ND	2.96	22.42	177.66	LLS2D471MELA
	560	20 x 40	0.15	2180	493-2515-ND	3.20	24.19	191.73	LLS2D561MELY
	560	22 x 35	0.15	2180	493-2516-ND	3.20	24.19	191.73	LLS2D561MELZ
	560	25 x 30	0.15	2150	493-2517-ND	3.48	26.37	208.95	LLS2D561MELA
	560	30 x 25	0.15	2150	493-2518-ND	3.44	26.02	206.22	LLS2D561MELB
	680	22 x 40	0.15	2480	493-2519-ND	3.59	27.19	215.46	LLS2D681MELZ
	680	25 x 30	0.15	2480	493-2520-ND	3.66	27.69	219.45	LLS2D681MELA
	680	30 x 25	0.15	2480	493-2521-ND	3.80	28.75	227.85	LLS2D681MELB
	820	22 x 45	0.15	2810	493-2522-ND	4.04	30.58	242.34	LLS2D821MELZ
	820	25 x 35	0.15	2790	493-2523-ND	4.04	30.58	242.34	LLS2D821MELA
	820	30 x 30	0.15	2800	493-2524-ND	4.28	32.38	256.62	LLS2D821MELB
	1000	22 x 50	0.15	3280	493-2525-ND	4.74	35.91	284.55	LLS2D102MELZ
	1000	25 x 40	0.15	3280	493-2526-ND	4.74	35.91	284.55	LLS2D102MELA
	1000	30 x 35	0.15	3150	493-2527-ND	4.87	36.86	292.11	LLS2D102MELB
	1200	30 x 35	0.15	3610	493-2528-ND	5.58	42.27	334.95	LLS2D122MELB
	1200	35 x 30	0.15	3570	493-2529-ND	5.83	44.12	349.65	LLS2D122MELC
	1500	30 x 45	0.15	4130	493-2530-ND	6.11	46.24	366.45	LLS2D152MELB
	1500	35 x 35	0.15	4060	493-2531-ND	6.90	52.23	413.91	LLS2D152MELC
	1800	30 x 50	0.15	4600	493-2532-ND	7.33	55.49	439.74	LLS2D182MELB
	1800	35 x 40	0.15	4590	493-2533-ND	7.85	59.44	471.03	LLS2D182MELC
	2200	35 x 45	0.15	5250	493-2534-ND	10.09	76.43	605.64	LLS2D222MELC
250	180	20 x 25	0.15	1200	493-2535-ND	2.36	17.89	141.75	LLS2E181MELY
	220	20 x 25	0.15	1260	493-2536-ND	2.36	17.89	141.75	LLS2E221MELY
	220	22 x 25	0.15	1240	493-2537-ND	2.36	17.89	141.75	LLS2E221MELZ
	270	20 x 30	0.15	1420	493-2538-ND	2.59	19.64	155.61	LLS2E271MELY
	270	22 x 25	0.15	1500	493-2539-ND	2.59	19.64	155.61	LLS2E271MELZ
	330	20 x 35	0.15	1680	493-2540-ND	2.82	21.39	169.47	LLS2E331MELY
	330	22 x 30	0.15	1660	493-2541-ND	2.82	21.39	169.47	LLS2E331MELZ
	330	25 x 25	0.15	1610	493-2542-ND	3.03	22.92	181.65	LLS2E331MELA
	390	20 x 40	0.15	1920	493-2543-ND	3.08	23.32	184.80	LLS2E391MELY
	390	22 x 35	0.15	1880	493-2544-ND	3.08	23.32	184.80	LLS2E391MELZ
	390	25 x 30	0.15	1880	493-2545-ND	3.20	24.19	191.73	LLS2E391MELA
	470	22 x 35	0.15	2150	493-2546-ND	3.44	26.02	206.22	LLS2E471MELZ
	470	25 x 35	0.15	2150	493-2547-ND	3.56	26.95	213.57	LLS2E471MELA
	470	30 x 25	0.15	2040	493-2548-ND	3.68	27.83	220.50	LLS2E471MELB
	560	22 x 40	0.15	2480	493-2549-ND	3.92	29.65	234.99	LLS2E561MELZ
	560	25 x 35	0.15	2350	493-2550-ND	3.92	29.65	234.99	LLS2E561MELA
	560	30 x 25	0.15	2350	493-2551-ND	4.15	31.43	249.06	LLS2E561MELB
	680	25 x 40	0.15	2670	493-2552-ND	4.63	35.03	277.62	LLS2E681MELA
	680	30 x 30	0.15	2710	493-2553-ND	4.63	35.03	277.62	LLS2E681MELB
	820	25 x 45	0.15	3010	493-2554-ND	5.37	40.62	321.93	LLS2E821MELA
	820	30 x 35	0.15	2980	493-2555-ND	5.35	40.52	321.09	LLS2E821MELB
	820	35 x 30	0.15	2960	493-2556-ND	5.83	44.12	349.65	LLS2E821MELC
	1000	30 x 40	0.15	3560	493-2557-ND	6.54	49.50	392.28	LLS2E102MELB
	1000	35 x 35	0.15	3480	493-2558-ND	6.90	52.23	413.91	LLS2E102MELC
	1200	30 x 45	0.15	3990	493-2559-ND	7.33	55.49	439.74	LLS2E122MELB
	1200	35 x 35	0.15	3840	493-2560-ND	7.38	55.89	442.89	LLS2E122MELC
	1500	35 x 40	0.15	4330	493-2561-ND	9.64	72.95	578.13	LLS2E152MELC
	1800	35 x 50	0.15	4540	493-2562-ND	10.37	78.55	622.44	LLS2E182MELC
400	68	20 x 25	0.15	750	493-2563-ND	1.90	14.39	114.03	LLS2G680MELY
	82	20 x 30	0.15	820	493-2564-ND	2.05	15.50	122.85	LLS2G820MELY
	82	22 x 25	0.15	840	493-2565-ND	2.05	15.50	122.85	LLS2G820MELZ
	100	20 x 30	0.15	950	493-2566-ND	2.19	16.62	131.67	LLS2G101MELY
	100	22 x 25	0.15	950	493-2567-ND	2.19	16.62	131.67	LLS2G101MELZ
	120	20 x 35	0.15	1070	493-2568-ND	2.49	18.87	149.52	LLS2G121MELY
	120	22 x 30	0.15	1090	493-2569-ND	2.49	18.87	149.52	LLS2G121MELZ
	120	25 x 25	0.15	1130	493-2570-ND	2.59	19.64	155.61	LLS2G121MELA
	150	20 x 40	0.15	1220	493-2571-ND	2.79	21.15	167.58	LLS2G151MELY
	150	22 x 35	0.15	1240	493-2572-ND	2.79	21.15	167.58	LLS2G151MELZ
	150	25 x 30	0.15	1270	493-2573-ND	2.85	21.60	171.15	LLS2G151MELA
	180	22 x 40	0.15	1410	493-2574-ND	3.09	23.43	185.64	LLS2G181MELZ

(Continued)

W.V. (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Rated Ripple Current @85°C (mA)	Digi-Key Part No.	Pricing			Nichicon Part No.
						1	10	100	
400	180	25 x 30	0.15	1440	493-2575-ND	3.30	24.96	197.82	LLS2G181MELA
	180	30 x 25	0.15	1520	493-2576-ND	3.40	25.76	204.12	LLS2G181MELB
	220	22 x 45	0.15	1580	493-2577-ND	3.49	26.45	209.58	LLS2G221MELZ
	220	25 x 35	0.15	1640	493-2578-ND	3.71	28.06	222.39	LLS2G221MELA
	220	30 x 30	0.15	1660	493-2579-ND	3.80	28.81	228.27	LLS2G221MELB
	270	25 x 40	0.15	1790	493-2580-ND	4.10	31.06	246.12	LLS2G271MELA
	270	30 x 30	0.15	1820	493-2581-ND	4.30	32.54	257.88	LLS2G271MELB
	330	25 x 45	0.15	2000	493-2582-ND	4.91	37.15	294.42	LLS2G331MELA
	330	30 x 35	0.15	2050	493-2583-ND	4.91	37.15	294.42	LLS2G331MELB
	330	35 x 30	0.15	2050	493-2584-ND	5.31	40.17	318.36	LLS2G331MELC
	390	30 x 40	0.15	2260	493-2585-ND	5.51	41.68	330.33	LLS2G391MELB
	390	35 x 35	0.15	2280	493-2586-ND	5.90	44.68	354.06	LLS2G391MELC
	470	30 x 45	0.15	2510	493-2587-ND	6.72	50.85	402.99	LLS2G471MELB
	470	35 x 35	0.15	2510	493-2588-ND	6.72	50.85	402.99	LLS2G471MELC
	560	30 x 50	0.15	2850	493-2589-ND	7.93	60.08	476.07	LLS2G561MELB
	560	35 x 40	0.15	2850	493-2590-ND	7.62	57.66	456.96	LLS2G561MELC
	680	35 x 50	0.15	3100	493-2591-ND	10.67	80.77	640.08	LLS2G681MELC
450	56	20 x 25	0.20	610	493-2592-ND	2.00	15.11	119.70	LLS2W560MELY
	68	20 x 30	0.20	710	493-2593-ND	2.14	16.19	128.31	LLS2W680MELY
	68	22 x 25	0.20	710	493-2594-ND	2.14	16.19	128.31	LLS2W680MELZ
	82	20 x 35	0.20	800	493-2595-ND	2.29	17.33	137.34	LLS2W820MELY
	82	22 x 25	0.20	860	493-2596-ND	2.29	17.33	137.34	LLS2W820MELZ
	100	20 x 35	0.20	880	493-2597-ND	2.59	19.64	155.61	LLS2W101MELY
	100	22 x 30	0.20	950	493-2598-ND	2.59	19.64	155.61	LLS2W101MELZ
	100	25 x 25	0.20	970	493-2599-ND	2.69	20.38	161.49	LLS2W101MELA
	120	20 x 40	0.20	990	493-2600-ND	2.79	21.15	167.58	LLS2W121MELY
	120	25 x 35	0.20	1070	493-2601-ND	2.79	21.15	167.58	LLS2W121MELZ
	120	25 x 30	0.20	1090	493-2602-ND	2.89	21.92	173.67	LLS2W121MELA
	120	30 x 25	0.20	1120	493-2603-ND	3.09	23.43	185.64	LLS2W121MELB
	150	22 x 40	0.20	1180	493-2604-ND	3.30	24.96	197.82	LLS2W151MELZ
	150	25 x 30	0.20	1250	493-2605-ND	3.30	24.96	197.82	LLS2W151MELA
	150	30 x 25	0.20	1290	493-2606-ND	3.50	26.47	209.79	LLS2W151MELB
	180	22 x 45	0.20	1320	493-2607-ND	3.49	26.45	209.58	LLS2W181MELZ
	180	25 x 35	0.20	1400	493-2608-ND	3.80	28.81	228.27	LLS2W181MELA
	180	30 x 30	0.20	1450	493-2609-ND	4.22	31.96	253.26	LLS2W181MELB
	220	25 x 40	0.20	1590	493-2610-ND	4.30	32.54	257.88	LLS2W221MELA
	220	30 x 30	0.20	1640	493-2611-ND	4.30	32.54	257.88	LLS2W221MELB
	220	35 x 25	0.20	1590	493-2612-ND	4.50	34.11	270.27	LLS2W221MELC
	270	30 x 35	0.20	1830	493-2613-ND	5.31	40.17	318.36	LLS2W271MELB
	270	35 x 30	0.20	1900	493-2614-ND	5.51	41.68	330.33	LLS2W271MELC
	330	30 x 40	0.20	2120	493-2615-ND	6.41	48.52	384.51	LLS2W331MELB
	330	35 x 35	0.20	2150	493-2616-ND	6.41	48.52	384.51	LLS2W331MELC
	390	30 x 45	0.20	2350	493-2617-ND	7.33	55.46	439.53	LLS2W391MELB
	390	35 x 40	0.20	2380	493-2618-ND	7.21	54.59	432.60	LLS2W391MELC
	470	35 x 45	0.20	2680	493-2619-ND	10.14	76.80	608.58	LLS2W471MELC
	560	35 x 50	0.20	2880	493-2620-ND	11.49	87.03	689.64	LLS2W561MELC

GU Series

W.V. (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Rated Ripple Current @105°C (mA)	Digi-Key Part No.	Pricing			Nichicon Part No.
						1	10	100	
160	270	20 x 25	0.15	1100	493-2621-ND	2.14	16.22	128.52	LGU2C271MELY
	330	20 x 30	0.15	1200	493-2622-ND	2.25	17.07	135.24	LGU2C331MELY
	390	20 x 30	0.15	1300	493-2623-ND	2.31	17.52	138.81	LGU2C391MELY
	390	22 x 25	0.15	1300	493-2624-ND	2.31	17.52	138.81	LGU2C391MELZ
	470	20 x 35	0.15	1340	493-2625-ND	2.54	19.24	152.46	LGU2C471MELY
	470	22 x 30	0.15	1550	493-2626-ND	2.54	19.24	152.46	LGU2C471MELZ
	470	25 x 25	0.15	1550	493-2627-ND	2.66	20.17	159.81	LGU2C471MELA
	560	20 x 40	0.15	1500	493-2628-ND	2.78	21.07	166.95	LGU2C561MELY
	560	22 x 35	0.15	1670	493-2629-ND	2.78	21.07	166.95	LGU2C561MELZ
	560	25 x 30	0.15	1670	493-2630-ND	2.90	21.97	174.09	LGU2C561MELA
	560	30 x 25	0.15	1670	493-2631-ND	3.05	23.08	182.91	LGU2C561MELB
	680	20 x 45	0.15	1700	493-2632-ND	3.13	23.72	187.95	LGU2C681MELY
	680	22 x 40	0.15	1820	493-2633-ND	3.13	23.72	187.95	LGU2C681MELZ
	680	25 x 30	0.15	1820	493-2634-ND	3.25	24.62	195.09	LGU2C681MELA
	680	30 x 25	0.15	1820	493-2635-ND	3.37	25.49	202.02	LGU2C681MELB
	820	22 x 45	0.15	2040	493-2636-ND	2.43	18.42	145.95	LGU2C821MELZ
	820	25 x 35	0.15	2040	493-2637-ND	3.60	27.27	216.09	LGU2C821MELA
	820	30 x 30	0.15	2040	493-2638-ND	3.84	29.04	230.16	LGU2C821MELB
	820	35 x 25	0.15	2040	493-2639-ND	4.07	30.79	244.02	LGU2C821MELC
	1000	22 x 50	0.15	2250	493-2640-ND	3.90	29.55	234.15	LGU2C102MELZ

W.V. (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Rated Ripple Current @105°C (mA)	Digi-Key Part No.	Pricing			Nichicon Part No.
						1	10	100	
160	1000	25 x 40	0.15	2250	493-2641-ND	4.19	31.72	251.37	LGU2C102MELA
	1000	30 x 30	0.15	2250	493-2642-ND	4.19	31.72	251.37	LGU2C102MELB
	1000	35 x 25	0.15	2250	493-2643-ND	4.66	35.30	279.72	LGU2C102MELC
	1200	25 x 45	0.15	2490	493-2644-ND	4.77	36.12	286.23	LGU2C122MELA
	1200	30 x 35	0.15	2490	493-2645-ND	4.77	36.12	286.23	LGU2C122MELB
	1200	35 x 30	0.15	2490	493-2646-ND	5.00	37.87	300.09	LGU2C122MELC
	1500	30 x 40	0.15	2840	493-2647-ND	5.83	44.12	349.65	LGU2C152MELB
	1500	35 x 30	0.15	2840	493-2648-ND	5.83	44.12	349.65	LGU2C152MELC
	1800	30 x 45	0.15	3320	493-2649-ND	6.52	49.40	391.44	LGU2C182MELB
	1800	35 x 35	0.15	3000	493-2650-ND	6.52	49.40	391.44	LGU2C182MELC
	2200	35 x 45	0.15	3500	493-2651-ND	8.59	65.00	515.13	LGU2C222MELC
	2700	35 x 50	0.15	4000	493-2652-ND	9.30	70.44	558.18	LGU2C272MELC
180	220	20 x 25	0.15	1000	493-2653-ND	2.15	16.30	129.15	LGU2Z221MELY
	270	20 x 30	0.15	1100	493-2654-ND	2.28	17.25	136.71	LGU2Z271MELY
	330	20 x 30	0.15	1200	493-2655-ND	2.36	17.89	141.75	LGU2Z331MELY
	330	22 x 25	0.15	1200	493-2656-ND	2.36	17.89	141.75	LGU2Z331MELZ
	390	20 x 35	0.15	1300	493-2657-ND	2.59	19.58	155.19	LGU2Z391MELY
	390	22 x 30	0.15	1350	493-2658-ND	2.59	19.58	155.19	LGU2Z391MELZ
	390	25 x 25	0.15	1350	493-2659-ND	2.68	20.27	160.65	LGU2Z391MELA
	470	20 x 40	0.15	1400	493-2660-ND	2.91	22.00	174.30	LGU2Z471MELY
	470	22 x 35	0.15	1500	493-2661-ND	2.91	22.00	174.30	LGU2Z471MELZ
	470	25 x 30	0.15	1500	493-2662-ND	3.00	22.68	179.76	LGU2Z471MELA
	470	30 x 25	0.15	1500	493-2663-ND	3.20	24.25	192.15	LGU2Z471MELB
	560	20 x 45	0.15	1550	493-2664-ND	3.22	24.41	193.41	LGU2Z561MELY
	560	22 x 40	0.15	1670	493-2665-ND	3.22	24.41	193.41	LGU2Z561MELZ
	560	25 x 30	0.15	1670	493-2666-ND	3.31	25.10	198.87	LGU2Z561MELA
	560	30 x 25	0.15	1670	493-2667-ND	3.54	26.82	212.52	LGU2Z561MELB
	680	22 x 45	0.15	1780	493-2668-ND	3.72	28.17	223.23	LGU2Z681MELZ
	680	25 x 35	0.15	1780	493-2669-ND	3.82	28.89	228.90	LGU2Z681MELA
	680	30 x 30	0.15	1780	493-2670-ND	4.04	30.58	242.34	LGU2Z681MELB
	680	35 x 25	0.15	1780	493-2671-ND	4.42	33.44	265.02	LGU2Z681MELC
	820	22 x 50	0.15	2040	493-2672-ND	4.22	31.96	253.26	LGU2Z821MELZ
	820	25 x 40	0.15	2040	493-2673-ND	4.36	32.99	261.45	LGU2Z821MELA
	820	30 x 30	0.15	2040	493-2674-ND	4.58	34.69	274.89	LGU2Z821MELB
	820	35 x 25	0.15	2040	493-2675-ND	4.95	37.47	296.94	LGU2Z821MELC
	1000	25 x 45	0.15	2300	493-2676-ND	4.95	37.47	296.94	LGU2Z102MELA
	1000	30 x 35	0.15	2300	493-2677-ND	5.22	39.54	313.32	LGU2Z102MELB
	1000	35 x 30	0.15	2300	493-2678-ND	5.59	42.29	335.16	LGU2Z102MELC
	1200	25 x 50	0.15	2550	493-2679-ND	5.71	43.22	342.51	LGU2Z122MELA
	1200	30 x 40	0.15	2550	493-2680-ND	6.04	45.71	362.25	LGU2Z122MELB
	1200	35 x 30	0.15	2550	493-2681-ND	6.52	49.34	391.02	LGU2Z122MELC
	1500	30 x 45	0.15	2900	493-2682-ND	7.08	53.64	425.04	LGU2Z152MELB
	1500	35 x 35	0.15	2900	493-2683-ND	7.33	55.46	439.53	LGU2Z152MELC
	1800	35 x 45	0.15	3300	493-2684-ND	8.67	65.64	520.17	LGU2Z182MELC
	2200	35 x 50	0.15	3650	493-2685-ND	10.08	76.32	604.80	LGU2Z222MELC
200	220	20 x 25	0.15	1000	493-2686-ND	2.26	17.12	135.66	LGU2D221MELY
	270	20 x 30	0.15	1100	493-2687-ND	2.29	17.36	137.55	LGU2D271MELY
	270	22 x 25	0.15	1100	493-2688-ND	2.29	17.36	137.55	LGU2D271MELZ
	330	20 x 35	0.15	1200	493-2689-ND	2.54	19.24	152.46	LGU2D331MELY
	330	22 x 30	0.15	1250	493-2690-ND	2.54	19.24	152.46	LGU2D331MELZ
	330	25 x 25	0.15	1250	493-2691-ND	2.66	20.11	159.39	LGU2D331MELA
	390	20 x 40	0.15	1310	493-2692-ND	2.78	21.07	166.95	LGU2D391MELY
	390	22 x 30	0.15	1350	493-2693-ND	2.78	21.07	166.95	LGU2D391MELZ
	390	25 x 25	0.15	1350	493-2694-ND	2.88	21.84	173.04	LGU2D391MELA
	470	20 x 45	0.15	1450	493-2695-ND	3.02	22.87	181.23	LGU2D471MELY
	470	22 x 35	0.15	1500	493-2696-ND	2.48	18.76	148.68	LGU2D471MELZ
	470	25 x 30	0.15	1500	493-2697-ND	3.13	23.72	187.95	LGU2D471MELA
	470	30 x 25	0.15	1500	493-2698-ND	3.37	25.49	202.02	LGU2D471MELB
	560	20 x 50	0.15	1580	493-2699-ND	3.37	25.49	202.02	LGU2D561MELY
	560	22 x 40	0.15	1670	493-2700-ND	3.37	25.49	202.02	LGU2D561MELZ
	560	25 x 30	0.15	1670	493-2701-ND	3.49	26.39	209.16	LGU2D561MELA
	560	30 x 25	0.15	1670	493-2702-ND	3.69	27.93	221.34	LGU2D561MELB
	680	22 x 45	0.15	1780	493-2703-ND	3.84	29.04	230.16	LGU2D681MELZ
	680	25 x 35	0.15	1780	493-2704-ND	3.84	29.04	230.16	LGU2D681MELA
	680	30 x 30	0.15	1780	493-2705-ND	4.07	30.79	244.02	LGU2D681MELB
	680	35 x 25	0.15	1780	493-2706-ND	4.43	33.52	265.65	LGU2D681MELC
	820	25 x 45	0.15	2040	493-2707-ND	4.66	35.30	279.72	LGU2D821MELA
	820	30 x 30	0.15	2040	493-2708-ND	4.66	35.30	279.72	LGU2D821MELB
	820	35 x 25	0.15	2040	493-2709-ND	5.00	37.87	300.09	LGU2D821MELC
	1000	25 x 50	0.15	2300	493-2710-ND	5.20	39.35	311.85	LGU2D102MELA
	1000	30 x 35	0.15	2300	493-2711-ND	5.24	39.70	314.58	LGU2D102MELB
	1000	35 x 30	0.15	2300	493-2712-ND	5.59	42.35	335.58	LGU2D102MELC
	1200	30 x 40	0.15	2650	493-2713-ND	6.52	49.40	391.44	LGU2D122MELB
	1200	35 x 35	0.15	2650	493-2714-ND	6.52	49.40	391.44	LGU2D122MELC
	1500	30 x 50	0.15	3080	493-2715-ND	7.46	56.45	447.30	LGU2D152MELB
	1500	35 x 40	0.15	3080	493-2716-ND	7.35	55.62	440.79	LGU2D152MELC
	1800	35 x 45	0.15	3480	493-2717-ND	9.62	72.85	577.29	LGU2D182MELC
	2200	35 x 50	0.15	3780	493-2718-ND	10.78	81.59	646.59	LGU2D222MELC

(Continued)

W.V. (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Rated Ripple Current @105°C (mA)	Digi-Key Part No.	Pricing			Nichicon Part No.
						1	10	100	
220	180	20 x 25	0.15	900	493-2719-ND	2.27	17.20	136.29	LGU2P181MELY
	220	20 x 30	0.15	1000	493-2720-ND	2.34	17.73	140.49	LGU2P221MELY
	220	22 x 25	0.15	1000	493-2721-ND	2.34	17.73	140.49	LGU2P221MELZ
	270	20 x 35	0.15	1150	493-2722-ND	2.65	20.03	158.76	LGU2P271MELY
	270	22 x 30	0.15	1150	493-2723-ND	2.65	20.03	158.76	LGU2P271MELZ
	330	20 x 40	0.15	1250	493-2724-ND	2.95	22.34	177.03	LGU2P331MELY
	330	22 x 35	0.15	1250	493-2725-ND	2.95	22.34	177.03	LGU2P331MELZ
	330	25 x 25	0.15	1250	493-2726-ND	3.07	23.24	184.17	LGU2P331MELA
	390	20 x 45	0.15	1400	493-2727-ND	3.26	24.65	195.30	LGU2P391MELY
	390	22 x 35	0.15	1400	493-2728-ND	3.26	24.65	195.30	LGU2P391MELZ
	390	25 x 30	0.15	1400	493-2729-ND	3.43	26.00	206.01	LGU2P391MELA
	470	20 x 50	0.15	1450	493-2730-ND	3.62	27.37	216.93	LGU2P471MELY
	470	22 x 40	0.15	1450	493-2731-ND	3.62	27.37	216.93	LGU2P471MELZ
	470	25 x 35	0.15	1450	493-2732-ND	3.67	27.80	220.29	LGU2P471MELA
	470	30 x 25	0.15	1450	493-2733-ND	3.92	29.71	235.41	LGU2P471MELB
	560	22 x 45	0.15	1700	493-2734-ND	4.01	30.37	240.66	LGU2P561MELZ
	560	25 x 40	0.15	1700	493-2735-ND	4.28	32.38	256.62	LGU2P561MELA
	560	30 x 30	0.15	1700	493-2736-ND	4.38	33.13	262.50	LGU2P561MELB
	680	25 x 45	0.15	1780	493-2737-ND	4.81	36.41	288.54	LGU2P681MELA
	680	30 x 35	0.15	1780	493-2738-ND	4.87	36.84	291.90	LGU2P681MELB
	680	35 X 25	0.15	1780	493-2739-ND	5.23	39.59	313.74	LGU2P681MELC
	820	25 x 50	0.15	2100	493-2740-ND	5.52	41.82	331.38	LGU2P821MELA
	820	30 x 40	0.15	2100	493-2741-ND	5.47	41.45	328.44	LGU2P821MELB
	820	35 x 30	0.15	2100	493-2742-ND	6.29	47.59	377.16	LGU2P821MELC
	1000	30 x 45	0.15	2400	493-2743-ND	6.08	46.06	364.98	LGU2P102MELB
	1000	35 x 35	0.15	2400	493-2744-ND	6.78	51.30	406.56	LGU2P102MELC
	1200	30 x 50	0.15	2600	493-2745-ND	7.45	56.39	446.88	LGU2P122MELB
	1200	35 x 40	0.15	2600	493-2746-ND	8.45	63.94	506.73	LGU2P122MELC
	1500	35 x 45	0.15	3000	493-2747-ND	9.29	70.30	557.13	LGU2P152MELC
250	150	20 x 25	0.15	790	493-2748-ND	2.32	17.57	139.23	LGU2E151MELY
	180	20 x 30	0.15	900	493-2749-ND	2.42	18.29	144.90	LGU2E181MELY
	220	20 x 30	0.15	1000	493-2750-ND	2.54	19.24	152.46	LGU2E221MELY
	220	22 x 25	0.15	1000	493-2751-ND	2.54	19.24	152.46	LGU2E221MELZ
	270	20 x 35	0.15	1100	493-2752-ND	2.90	21.97	174.09	LGU2E271MELY
	270	22 x 35	0.15	1180	493-2753-ND	2.90	21.97	174.09	LGU2E271MELZ
	270	25 x 25	0.15	1180	493-2754-ND	3.02	22.87	181.23	LGU2E271MELA
	330	20 x 40	0.15	1200	493-2755-ND	3.25	24.62	195.09	LGU2E331MELY
	330	22 x 40	0.15	1300	493-2756-ND	3.25	24.62	195.09	LGU2E331MELZ
	330	25 x 30	0.15	1300	493-2757-ND	3.35	25.39	201.18	LGU2E331MELA
	330	30 x 25	0.15	1300	493-2758-ND	3.49	26.39	209.16	LGU2E331MELB
	390	20 x 50	0.15	1450	493-2759-ND	3.60	27.27	216.09	LGU2E391MELY
	390	22 x 45	0.15	1490	493-2760-ND	3.60	27.27	216.09	LGU2E391MELZ
	390	25 x 35	0.15	1490	493-2761-ND	3.84	29.04	230.16	LGU2E391MELA
	390	30 x 25	0.15	1490	493-2762-ND	3.84	29.04	230.16	LGU2E391MELB
	470	22 x 50	0.15	1650	493-2763-ND	4.07	30.79	244.02	LGU2E471MELZ
	470	25 x 40	0.15	1650	493-2764-ND	4.07	30.79	244.02	LGU2E471MELA
	470	30 x 30	0.15	1650	493-2765-ND	4.32	32.67	258.93	LGU2E471MELB
	470	35 x 25	0.15	1650	493-2766-ND	4.66	35.30	279.72	LGU2E471MELC
	560	25 x 45	0.15	1800	493-2767-ND	4.90	37.07	293.79	LGU2E561MELA
	560	30 x 35	0.15	1800	493-2768-ND	4.90	37.07	293.79	LGU2E561MELB
	560	35 x 25	0.15	1800	493-2769-ND	5.24	39.70	314.58	LGU2E561MELC
	680	25 x 50	0.15	2000	493-2770-ND	5.60	42.37	335.79	LGU2E681MELA
	680	30 x 40	0.15	2000	493-2771-ND	5.47	41.42	328.23	LGU2E681MELB
	680	35 x 30	0.15	2000	493-2772-ND	5.83	44.12	349.65	LGU2E681MELC
	820	30 x 45	0.15	2300	493-2773-ND	6.06	45.87	363.51	LGU2E821MELB
	820	35 x 35	0.15	2300	493-2774-ND	6.55	49.56	392.70	LGU2E821MELC
	1000	30 X 50	0.15	2470	493-2775-ND	6.66	50.46	399.84	LGU2E102MELB
	1000	35 x 40	0.15	2470	493-2776-ND	7.70	58.27	461.79	LGU2E102MELC
	1200	35 x 45	0.15	2600	493-2777-ND	10.03	75.98	602.07	LGU2E122MELC
	1500	35 x 50	0.15	3000	493-2778-ND	10.86	82.23	651.63	LGU2E152MELC
400	56	20 x 25	0.15	510	493-2779-ND	2.02	15.29	121.17	LGU2G560MELY
	68	20 x 30	0.15	560	493-2780-ND	2.17	16.46	130.41	LGU2G680MELY
	82	20 x 30	0.15	640	493-2781-ND	2.24	16.99	134.61	LGU2G820MELY
	82	22 x 25	0.15	640	493-2782-ND	2.24	16.99	134.61	LGU2G820MELZ
	100	20 x 35	0.15	700	493-2783-ND	2.54	19.27	152.67	LGU2G101MELY
	100	22 x 30	0.15	700	493-2784-ND	2.54	19.27	152.67	LGU2G101MELZ
	100	25 x 25	0.15	700	493-2785-ND	2.64	19.98	158.34	LGU2G101MELA
	120	20 x 40	0.15	750	493-2786-ND	2.84	21.49	170.31	LGU2G121MELY
	120	22 x 35	0.15	750	493-2787-ND	2.84	21.49	170.31	LGU2G121MELZ
	120	25 x 25	0.15	750	493-2788-ND	2.94	22.23	176.19	LGU2G121MELA
	150	20 x 45	0.15	830	493-2789-ND	3.23	24.46	193.83	LGU2G151MELY
	150	22 x 40	0.15	880	493-2790-ND	3.23	24.46	193.83	LGU2G151MELZ
	150	25 x 30	0.15	880	493-2791-ND	3.33	25.23	199.92	LGU2G151MELA
	150	30 x 25	0.15	880	493-2792-ND	3.54	26.77	212.10	LGU2G151MELB
	180	22 x 45	0.15	980	493-2793-ND	3.62	27.43	217.35	LGU2G181MELZ
	180	25 x 35	0.15	980	493-2794-ND	3.62	27.43	217.35	LGU2G181MELA
	180	30 x 30	0.15	980	493-2795-ND	3.82	28.91	229.11	LGU2G181MELB
	180	35 x 25	0.15	980	493-2796-ND	4.12	31.16	246.96	LGU2G181MELC
400	220	22 x 50	0.15	1100	493-2797-ND	4.23	32.01	253.68	LGU2G221MELZ
	220	25 x 40	0.15	1100	493-2798-ND	4.32	32.67	258.93	LGU2G221MELA
	220	30 x 30	0.15	1100	493-2799-ND	4.41	33.42	264.81	LGU2G221MELB
	220	35 x 25	0.15	1100	493-2800-ND	4.71	35.64	282.45	LGU2G221MELC
	270	25 x 45	0.15	1220	493-2801-ND	5.11	38.66	306.39	LGU2G271MELA
	270	30 x 35	0.15	1220	493-2802-ND	5.11	38.66	306.39	LGU2G271MELB
	270	35 x 30	0.15	1220	493-2803-ND	5.39	40.84	323.61	LGU2G271MELC
	330	25 x 50	0.15	1440	493-2804-ND	6.19	46.85	371.28	LGU2G331MELA
	330	30 x 40	0.15	1440	493-2805-ND	6.09	46.11	365.40	LGU2G331MELB
	330	35 x 30	0.15	1440	493-2806-ND	6.19	46.85	371.28	LGU2G331MELC
	390	30 x 45	0.15	1600	493-2807-ND	7.27	55.01	435.96	LGU2G391MELB
	390	35 x 35	0.15	1600	493-2808-ND	7.27	55.01	435.96	LGU2G391MELC
	470	30 x 50	0.15	1900	493-2809-ND	8.75	66.22	524.79	LGU2G471MELB
	470	35 x 40	0.15	1900	493-2810-ND	8.05	60.98	483.21	LGU2G471MELC
	560	35 x 45	0.15	2120	493-2811-ND	11.50	87.11	690.27	LGU2G561MELC
420	56	20 x 25	0.15	510	493-2812-ND	2.42	18.31	145.11	LGUW6560MELY
	68	20 x 30	0.15	560	493-2813-ND	2.67	20.22	160.23	LGUW6680MELY
	82	20 x 35	0.15	640	493-2814-ND	2.81	21.25	168.42	LGUW6820MELY
	82	22 x 25	0.15	640	493-2815-ND	2.81	21.25	168.42	LGUW6820MELZ
	100	20 x 35	0.15	700	493-2816-ND	3.22	24.35	192.99	LGUW6101MELY
	100	22 x 30	0.15	700	493-2817-ND	3.22	24.35	192.99	LGUW6101MELZ
	100	25 x 25	0.15	700	493-2818-ND	3.22	24.41	193.41	LGUW6101MELA
	120	20 x 40	0.15	750	493-2819-ND	3.72	28.14	223.02	LGUW6121MELY
	120	22 x 35	0.15	750	493-2820-ND	3.72	28.14	223.02	LGUW6121MELZ
	120	25 x 30	0.15	750	493-2821-ND	3.68	27.85	220.71	LGUW6121MELA
	150	20 x 50	0.15	880	493-2822-ND	4.24	32.07	254.10	LGUW6151MELY
	150	22 x 40	0.15	880	493-2823-ND	4.24	32.07	254.10	LGUW6151MELZ
	150	25 x 35	0.15	880	493-2824-ND	4.55	34.45	273.00	LGUW6151MELA
	150	30 x 25	0.15	880	493-2825-ND	4.54	34.40	272.58	LGUW6151MELB
	180	22 x 45	0.15	950	493-2826-ND	4.56	34.56	273.84	LGUW6181MELZ
	180	25 x 35	0.15	950	493-2827-ND	4.96	37.58	297.78	LGUW6181MELA
	180	30 x 30	0.15	950	493-2828-ND	5.45	41.26	326.97	LGUW6181MELB
	220	22 x 50	0.15	1100	493-2829-ND	5.32	40.28	319.20	LGUW6221MELZ
	220	25 x 45	0.15	1100	493-2830-ND	6.40	48.47	384.09	LGUW6221MELA
	220	30 x 35	0.15	1100	493-2831-ND	5.79	43.86	347.55	LGUW6221MELB
	220	35 x 25	0.15	1100	493-2832-ND	6.11	46.24	366.45	LGUW6221MELC
	270	25 x 50	0.15	1220	493-2833-ND	6.81	51.60	408.87	LGUW6271MELA
	270	30 x 40	0.15	1220	493-2834-ND	6.79	51.38	407.19	LGUW6271MELB
	270	35 x 30	0.15	1220	493-2835-ND	7.17	54.27	430.08	LGUW6271MELC
	330	30 x 45	0.15	1450	493-2836-ND	8.05	60.98	483.21	LGUW6331MELB
	330	35 x 35	0.15	1450	493-2837-ND	8.52	64.50	511.14	LGUW6331MELC
	390	30 x 50	0.15	1550	493-2838-ND	9.14	69.22	548.52	LGUW6391MELB
	390	35 x 40	0.15	1550	493-2839-ND	10.17	77.01	610.26	LGUW6391MELC
	470	35 x 45	0.15	1900	493-2840-ND	10.93	82.79	656.04	LGUW6471MELC
	560	35 x 50	0.15	2150	493-2841-ND	14.18	107.33	850.50	LGUW6561MELC
450	47	20 x 25	0.20	390	493-2842-ND	2.63	19.88	157.50	LGU2W470MELY
	56	20 x 30	0.20	510	493-2843-ND	2.79	21.09	167.16	LGU2W560MELY
	68	20 x 35	0.20	560	493-2844-ND	3.03	22.98	182.07	LGU2W680MELY
	82	20 x 35	0.20	640	493-2845-ND	3.21	24.30	192.57	LGU2W820MELY
	82	22 x 30	0.20	640	493-2846-ND	3.21	24.30	192.57	LGU2W820MELZ
	82	25 x 25	0.20	640	493-2847-ND	3.01	22.79	180.60	LGU2W820MELA
	100	20 x 45	0.20	690	493-2848-ND	3.67	27.77	220.08	LGU2W101MELY
	100	22 x 35	0.20	690	493-2849-ND	3.67	27.77	220.08	LGU2W101MELZ
	100	25 x 30	0.20	690	493-2850-ND	3.78	28.65	227.01	LGU2W101MELA
	120	20 x 50	0.20	750	493-2851-ND	4.24	32.12	254.52	LGU2W121MELY
	120	22 x 40	0.20	800	493-2852-ND	4.24	32.12	254.52	LGU2W121MELZ
	120	25 x 30	0.20	800	493-2853-ND	4.36	32.99	261.45	LGU2W121MELA
	120	30 x 25	0.20	800	493-2854-ND	4.54	34.40	272.58	LGU2W121MELB
	150	22 x 45	0.20	880	493-2855-ND	5.09	38.53	305.34	LGU2W151MELZ
	150	25 x 35	0.20	880	493-2856-ND	5.20	39.38	312.06	LGU2W151MELA
	150	30 x 30	0.20	880	493-2857-ND	5.32	40.25	318.99	LGU2W151MELB
	180	22 x 50	0.20	1000	493-2858-ND	5.48	41.47	328.65	LGU2W181MELZ
	180	25 x 40	0.20	1000	493-2859-ND	5.97	45.18	358.05	LGU2W181MELA
	180	30 x 30	0.20	1000	493-2860-ND	6.12	46.32	367.08	LGU2W181MELB
	220	25 x 45	0.20	1120	493-2861-ND	7.04	53.27	422.10	LGU2W221MELA
	220	30 x 35	0.20	1120	493-2862-ND	7.23	54.75	433.86	LGU2W221MELB
	220	35 x 30	0.20	1120	493-2863-ND	7.53	57.03	451.92	LGU2W221MELC
	270	30 x 40	0.20	1280	493-2864-ND	8.56	64.82	513.66	LGU2W271MELB
	270	35 x 35	0.20	1280	493-2865-ND	8.87	67.18	532.35	LGU2W271MELC
	330	30 x 50	0.20	1450	493-2866-ND	10.06	76.13	603.33	LGU2W331MELB
	330	35 x 40	0.20	1450	493-2867-ND	10.48	79.31	628.53	LGU2W331MELC
	390	35 x 40	0.20	1500	493-2868-ND	12.04	91.19	722.61	LGU2W391MELC
	470	35 x 50	0.20	1850	493-2869-ND	14.03	106.24	841.89	LGU2W471MELC

nichicon WX Series Aluminum Electrolytic Capacitors (SMT)

General Purpose 85°C

FEATURES:
• Designed for surface mounting on high density PC board • Applicable to automatic mounting machine using carrier tape • Load life of 2000 hours at 85°C **Marking:** Black print on the case top

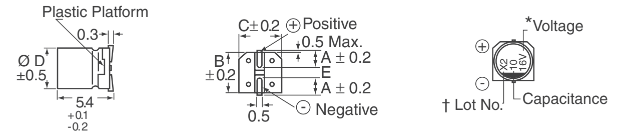

* Voltage mark for 6.3V is (6V). In case of marking for ø3 units, "V" for rated voltage is omitted.
† In case of marking for ø3 units, Lot No. is expressed by digit (month code).

	Diameter D (mm)				
Dim.	**3**	**4**	**5**	**6.3**	**8**
A	1.5	1.8	2.1	2.4	3.3
B	3.3	4.3	5.3	6.6	8.3
C	3.3	4.3	5.3	6.6	8.3
E	0.8	1.0	1.3	2.2	2.3

SPECIFICATIONS:

Temperature Range	-40°C ~ 85°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Cur. @120Hz/85°C (mA rms)	Dia. D (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Nichicon Part No.
							5	10	25		Qty.	Pricing	
4	22	0.35	3	19	3.0	493-2075-1-ND	.66	1.09	2.52	493-2075-2-ND	2,000	50.00/M	UWX0G220MCL2GB
	33	0.35	3	28	4.0	493-2076-1-ND	.66	1.09	2.52	—	—	—	UWX0G330MCL1GB
	47	0.35	3	33	4.0	493-2077-1-ND	.66	1.09	2.52	493-2077-2-ND	2,000	50.00/M	UWX0G470MCL1GB
	56	0.35	3	42	5.0	493-2078-1-ND	.68	1.12	2.60	—	—	—	UWX0G560MCL1GB
	100	0.35	4	56	5.0	493-2079-1-ND	.68	1.12	2.60	493-2079-2-ND	1,000	58.00	UWX0G101MCL1GB
	150	0.35	6	79	6.3	493-2080-1-ND	.87	1.44	3.33	—	—	—	UWX0G151MCL1GB
	220	0.35	8.8	96	6.3	493-2081-1-ND	.87	1.44	3.33	493-2081-2-ND	1,000	66.00	UWX0G221MCL1GB
	330	0.35	13.2	145	8.0	493-2082-1-ND	.94	1.54	3.58	493-2082-2-ND	1,000	70.00	UWX0G331MCL1GB
6.3	22	0.26	3	21	3.0	493-2083-1-ND	.62	1.02	2.36	493-2083-2-ND	2,000	46.00/M	UWX0J220MCL2GB
	22	0.26	3	28	4.0	493-2084-1-ND	.60	.98	2.28	493-2084-2-ND	2,000	45.00/M	UWX0J220MCL1GB
	33	0.26	3	37	5.0	493-2085-1-ND	.68	1.12	2.60	493-2085-2-ND	1,000	58.00	UWX0J330MCL1GB
	47	0.26	3	45	5.0	493-2086-1-ND	.62	1.02	2.36	493-2086-2-ND	1,000	52.00	UWX0J470MCL1GB
	56	0.26	3.528	52	6.3	493-2087-1-ND	.68	1.12	2.60	—	—	—	UWX0J560MCL1GB
	100	0.26	6.3	70	6.3	493-2088-1-ND	.65	1.08	2.50	493-2088-2-ND	1,000	55.00	UWX0J101MCL1GB
	150	0.26	9.45	71	6.3	493-2089-1-ND	.94	1.54	3.58	493-2089-2-ND	1,000	70.00	UWX0J151MCL1GB
	220	0.26	13.86	110	8.0	493-2090-1-ND	.94	1.54	3.58	493-2090-2-ND	1,000	70.00	UWX0J221MCL1GB
	330	0.26	20.79	170	8.0	493-2091-1-ND	.94	1.54	3.58	493-2091-2-ND	1,000	70.00	UWX0J331MCL1GB
10	22	0.2	3	33	5.0	493-2092-1-ND	.62	1.02	2.36	493-2092-2-ND	1,000	52.00	UWX1A220MCL1GB
	33	0.2	3.3	41	5.0	493-2093-1-ND	.68	1.12	2.60	493-2093-2-ND	1,000	58.00	UWX1A330MCL1GB
	47	0.2	4.7	52	6.3	493-2094-1-ND	.68	1.12	2.60	493-2094-2-ND	1,000	58.00	UWX1A470MCL1GB
	56	0.2	5.6	57	6.3	493-2095-1-ND	.68	1.12	2.60	493-2095-2-ND	1,000	58.00	UWX1A560MCL1GB
	100	0.2	10	76	6.3	493-2096-1-ND	.68	1.12	2.60	493-2096-2-ND	1,000	58.00	UWX1A101MCL1GB
	150	0.2	15	111	8.0	493-2097-1-ND	1.19	1.96	4.55	493-2097-2-ND	1,000	90.00	UWX1A151MCL1GB
	220	0.2	22	135	8.0	493-2098-1-ND	.94	1.54	3.58	493-2098-2-ND	1,000	70.00	UWX1A221MCL1GB
16	10	0.16	3	18	3.0	493-2099-1-ND	.62	1.02	2.36	493-2099-2-ND	2,000	46.00/M	UWX1C100MCL2GB
	10	0.16	3	23	4.0	493-2100-1-ND	.60	.98	2.28	493-2100-2-ND	2,000	45.00/M	UWX1C100MCL1GB
	22	0.16	3.52	37	5.0	493-2101-1-ND	.60	.98	2.28	493-2101-2-ND	1,000	51.00	UWX1C220MCL1GB
	33	0.16	5.28	49	6.3	493-2102-1-ND	.74	1.23	2.84	493-2102-2-ND	1,000	63.00	UWX1C330MCL1GB
	47	0.16	7.52	58	6.3	493-2103-1-ND	.65	1.08	2.50	493-2103-2-ND	1,000	55.00	UWX1C470MCL1GB
	56	0.16	8.96	63	6.3	493-2104-1-ND	.74	1.23	2.84	493-2104-2-ND	1,000	63.00	UWX1C560MCL1GB
	100	0.16	16	86	6.3	493-2105-1-ND	.74	1.21	2.81	493-2105-2-ND	1,000	62.00	UWX1C101MCL1GB
25	4.7	0.14	3	12	3.0	493-2106-1-ND	.60	.98	2.28	493-2106-2-ND	2,000	45.00/M	UWX1E4R7MCL2GB
	4.7	0.14	3	16	4.0	493-2107-1-ND	.62	1.02	2.36	493-2107-2-ND	2,000	46.00/M	UWX1E4R7MCL1GB
	10	0.14	3	27	5.0	493-2108-1-ND	.66	1.08	2.51	493-2108-2-ND	1,000	56.00	UWX1E100MCL1GB
	22	0.14	5.5	42	6.3	493-2109-1-ND	.71	1.18	2.73	493-2109-2-ND	1,000	60.00	UWX1E220MCL1GB
	33	0.14	8.25	52	6.3	493-2110-1-ND	.82	1.35	3.14	493-2110-2-ND	1,000	69.00	UWX1E330MCL1GB
	47	0.14	11.75	70	8.0	493-2111-1-ND	.94	1.54	3.58	493-2111-2-ND	1,000	70.00	UWX1E470MCL1GB
	56	0.14	14	76	8.0	493-2112-1-ND	.94	1.54	3.58	493-2112-2-ND	1,000	70.00	UWX1E560MCL1GB
	100	0.14	25	110	8.0	493-2113-1-ND	1.23	2.03	4.71	493-2113-2-ND	1,000	93.00	UWX1E101MCL1GB
35	2.2	0.12	3	8.4	3.0	493-2114-1-ND	.62	1.02	2.36	493-2114-2-ND	2,000	46.00/M	UWX1V2R2MCL2GB
	3.3	0.12	3	10	3.0	493-2115-1-ND	.62	1.02	2.36	493-2115-2-ND	2,000	46.00/M	UWX1V3R3MCL2GB
	4.7	0.12	3	18	4.0	493-2116-1-ND	.62	1.02	2.36	493-2116-2-ND	2,000	46.00/M	UWX1V4R7MCL1GB
	10	0.12	3.5	29	5.0	493-2117-1-ND	.66	1.08	2.51	493-2117-2-ND	1,000	56.00	UWX1V100MCL1GB
	22	0.12	7.7	46	6.3	493-2118-1-ND	.71	1.18	2.73	493-2118-2-ND	1,000	60.00	UWX1V220MCL1GB
	33	0.12	11.55	62	8.0	493-2119-1-ND	.94	1.54	3.58	493-2119-2-ND	1,000	70.00	UWX1V330MCL1GB
	47	0.12	16.45	80	8.0	493-2120-1-ND	.94	1.54	3.58	493-2120-2-ND	1,000	70.00	UWX1V470MCL1GB
50	0.1	0.12	3	1	3.0	493-2121-1-ND	.64	1.05	2.44	493-2121-2-ND	2,000	48.00/M	UWX1H0R1MCL2GB
	0.1	0.12	3	1	4.0	493-2122-1-ND	.64	1.05	2.44	493-2122-2-ND	2,000	48.00/M	UWX1H0R1MCL1GB
	0.22	0.12	3	2	3.0	493-2123-1-ND	.64	1.05	2.44	493-2123-2-ND	2,000	48.00/M	UWX1HR22MCL2GB
	0.22	0.12	3	2	4.0	493-2124-1-ND	.64	1.05	2.44	493-2124-2-ND	2,000	48.00/M	UWX1HR22MCL1GB
	0.33	0.12	3	2.8	3.0	493-2125-1-ND	.64	1.05	2.44	493-2125-2-ND	2,000	48.00/M	UWX1HR33MCL2GB
	0.33	0.12	3	2.8	4.0	493-2126-1-ND	.64	1.05	2.44	493-2126-2-ND	2,000	48.00/M	UWX1HR33MCL1GB
	0.47	0.12	3	4	3.0	493-2127-1-ND	.64	1.05	2.44	493-2127-2-ND	2,000	48.00/M	UWX1HR47MCL2GB
	0.47	0.12	3	4	4.0	493-2128-1-ND	.64	1.05	2.44	493-2128-2-ND	2,000	48.00/M	UWX1HR47MCL1GB
	1	0.12	3	8	3.0	493-2129-1-ND	.64	1.05	2.44	493-2129-2-ND	2,000	48.00/M	UWX1H010MCL2GB
	1	0.12	3	8.4	4.0	493-2130-1-ND	.62	1.03	2.38	493-2130-2-ND	2,000	47.00/M	UWX1H010MCL1GB
	2.2	0.12	3	10	3.0	493-2131-1-ND	.68	1.12	2.60	493-2131-2-ND	2,000	51.00/M	UWX1H2R2MCL2GB
	2.2	0.12	3	13	4.0	493-2132-1-ND	.65	1.07	2.49	493-2132-2-ND	2,000	49.00/M	UWX1H2R2MCL1GB
	3.3	0.12	3	17	4.0	493-2133-1-ND	.70	1.16	2.68	493-2133-2-ND	2,000	53.00/M	UWX1H3R3MCL1GB
	4.7	0.12	3	20	5.0	493-2134-1-ND	.68	1.12	2.59	493-2134-2-ND	1,000	57.00	UWX1H4R7MCL1GB
	10	0.12	5	33	6.3	493-2135-1-ND	.71	1.17	2.71	493-2135-2-ND	1,000	60.00	UWX1H100MCL1GB
	22	0.12	11	52	8.0	493-2136-1-ND	1.06	1.75	4.06	493-2136-2-ND	1,000	80.00	UWX1H220MCL1GB
	33	0.12	16.5	71	8.0	493-2137-1-ND	1.06	1.75	4.06	493-2137-2-ND	1,000	80.00	UWX1H330MCL1GB

nichicon WT Series Aluminum Electrolytic Capacitors (SMT)

General Purpose 105°C

Applies to: ø3 ~ ø8 x 5.4 L, ø6.3 x 5.8 L, ø6.3 x 7.7 L

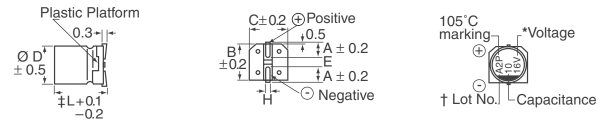

* Voltage mark for 6.3V is (6V). In case of marking for ø3 units, "V" for rated voltage is omitted.
† In case of marking for ø3 units, Lot No. is expressed by a digit (month code).
‡ ±0.3 for Ø6.3 x 5.8, Ø6.3 x 7.7

Applies to: ø8 x 10 L, ø10 x 10 L

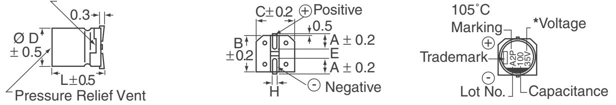

FEATURES:

- Chip type, operating over wide temperature range of -55°C ~ 105°C
- Designed for surface mounting on high density PC board
- Applicable to automatic mounting machine using carrier tape

- **Marking:** Black print on the case top

Dim.	3.0 x 5.4	4.0 x 5.4	5.0 x 5.4	6.3 x 5.4	6.3 x 5.8	6.3 x 7.7	8.0 x 5.4	8.0 x 10.0	10.0 x 10.0
	Diameter D (mm) x Dimension L (mm)								
A	1.5	1.8	2.1	2.4	2.4	2.4	3.3	2.9	3.2
B	3.3	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
C	3.3	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
E	0.8	1.0	1.3	2.2	2.2	2.2	2.3	3.1	4.5
H	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.8-1.1	0.8-1.1

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.

F

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Cur. 120Hz/105°C (mA rms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Nichicon Part No.
								5	10	25		Qty.	Pricing	
4	22	0.4	3	22	4.0	5.4	493-2138-1-ND	.70	1.16	2.68	—	—	—	UWT0G220MCL1GB
	33	0.4	3	30	5.0	5.4	493-2139-1-ND	.70	1.16	2.68	—	—	—	UWT0G330MCL1GB
	47	0.4	3	36	5.0	5.4	493-2140-1-ND	.81	1.33	3.09	493-2140-2-ND	1,000	68.00	UWT0G470MCL1GB
	100	0.4	4	60	6.3	5.4	493-2141-1-ND	.87	1.44	3.33	493-2141-2-ND	1,000	66.00	UWT0G101MCL1GB
	150	0.4	6	86	6.3	5.8	493-2142-1-ND	.98	1.61	3.74	493-2142-2-ND	1,000	74.00	UWT0G151MCL1GS
	220	0.4	8.8	102	8.0	5.4	493-2144-1-ND	1.28	2.10	4.88	493-2144-2-ND	1,000	96.00	UWT0G221MCL1GB
	330	0.4	13.2	105	6.3	7.7	493-2145-1-ND	1.28	2.10	4.88	493-2145-2-ND	900	97.20	UWT0G331MCL1GS
	470	0.4	18.8	210	8.0	10.0	493-2146-1-ND	1.53	2.52	5.85	493-2146-2-ND	500	65.00	UWT0G471MNL1GS
	680	0.4	27.2	210	8.0	10.0	493-2147-1-ND	1.53	2.52	5.85	493-2147-2-ND	500	65.00	UWT0G681MNL1GS
	1000	0.4	40	230	8.0	10.0	493-2148-1-ND	1.53	2.52	5.85	493-2148-2-ND	500	65.00	UWT0G102MNL1GS
	1500	0.4	60	310	10.0	10.0	493-2149-1-ND	1.98	3.26	7.56	493-2149-2-ND	500	83.50	UWT0G152MNL1GS
6.3	22	0.3	3	22	4.0	5.4	493-2150-1-ND	.70	1.16	2.68	493-2150-2-ND	2,000	53.00/M	UWT0J220MCL1GB
	33	0.3	3	30	5.0	5.4	493-2151-1-ND	.70	1.16	2.68	493-2151-2-ND	1,000	59.00	UWT0J330MCL1GB
	47	0.3	3	36	5.0	5.4	493-2152-1-ND	.81	1.33	3.09	493-2152-2-ND	1,000	68.00	UWT0J470MCL1GB
	100	0.3	6.3	60	6.3	5.4	493-2153-1-ND	.87	1.44	3.33	493-2153-2-ND	1,000	66.00	UWT0J101MCL1GB
	150	0.3	9.45	86	6.3	5.8	493-2154-1-ND	.98	1.61	3.74	493-2154-2-ND	1,000	74.00	UWT0J151MCL1GS
	220	0.3	13.86	102	8.0	5.4	493-2156-1-ND	1.28	2.10	4.88	493-2156-2-ND	1,000	96.00	UWT0J221MCL1GB
	330	0.3	20.79	105	6.3	7.7	493-2157-1-ND	1.28	2.10	4.88	493-2157-2-ND	900	97.20	UWT0J331MCL1GS
	470	0.3	29.61	210	8.0	10.0	493-2158-1-ND	1.53	2.52	5.85	493-2158-2-ND	500	65.00	UWT0J471MNL1GS
	680	0.3	42.84	210	8.0	10.0	493-2159-1-ND	1.53	2.52	5.85	493-2159-2-ND	500	65.00	UWT0J681MNL1GS
	1000	0.3	63	230	8.0	10.0	493-2160-1-ND	1.53	2.52	5.85	493-2160-2-ND	500	65.00	UWT0J102MNL1GS
	1500	0.3	94.5	310	10.0	10.0	493-2161-1-ND	1.98	3.26	7.56	493-2161-2-ND	500	83.50	UWT0J152MNL1GS
10	22	0.24	3	27	5.0	5.4	493-2162-1-ND	.89	1.47	3.41	493-2162-2-ND	1,000	67.00	UWT1A220MCL1GB
	33	0.24	3.3	35	5.0	5.4	493-2163-1-ND	.89	1.47	3.41	493-2163-2-ND	1,000	67.00	UWT1A330MCL1GB
	47	0.24	4.7	46	6.3	5.4	493-2164-1-ND	.98	1.61	3.74	493-2164-2-ND	1,000	74.00	UWT1A470MCL1GB
	100	0.24	10	60	6.3	5.4	493-2165-1-ND	.98	1.61	3.74	493-2165-2-ND	1,000	74.00	UWT1A101MCL1GB
	150	0.24	15	86	6.3	5.8	493-2166-1-ND	.98	1.61	3.74	493-2166-2-ND	1,000	74.00	UWT1A151MCL1GS
	220	0.24	22	105	6.3	7.7	493-2167-1-ND	1.28	2.10	4.88	493-2167-2-ND	900	97.20	UWT1A221MCL1GS
	330	0.24	33	195	8.0	10.0	493-2168-1-ND	1.53	2.52	5.85	493-2168-2-ND	500	65.00	UWT1A331MNL1GS
	470	0.24	47	210	8.0	10.0	493-2169-1-ND	1.53	2.52	5.85	493-2169-2-ND	500	65.00	UWT1A471MNL1GS
	680	0.24	68	310	10.0	10.0	493-2170-1-ND	1.98	3.26	7.56	493-2170-2-ND	500	83.50	UWT1A681MNL1GS
	1000	0.24	100	310	10.0	10.0	493-2171-1-ND	1.98	3.26	7.56	493-2171-2-ND	500	83.50	UWT1A102MNL1GS
16	10	0.2	3	14	3.0	5.4	493-2172-1-ND	.70	1.16	2.68	493-2172-2-ND	2,000	53.00/M	UWT1C100MCL2GB
	10	0.2	3	18	4.0	5.4	493-2173-1-ND	.70	1.16	2.68	493-2173-2-ND	2,000	53.00/M	UWT1C100MCL1GB
	22	0.2	3.52	30	5.0	5.4	493-2174-1-ND	1.00	1.65	3.82	493-2174-2-ND	1,000	75.00	UWT1C220MCL1GB
	33	0.2	5.28	40	6.3	5.4	493-2175-1-ND	1.00	1.65	3.82	493-2175-2-ND	1,000	75.00	UWT1C330MCL1GB
	47	0.2	7.52	50	6.3	5.4	493-2176-1-ND	1.06	1.75	4.06	493-2176-2-ND	1,000	80.00	UWT1C470MCL1GB
	100	0.2	16	60	6.3	5.4	493-2177-1-ND	1.06	1.75	4.06	493-2177-2-ND	1,000	80.00	UWT1C101MCL1GB
	150	0.2	24	95	6.3	7.7	493-2178-1-ND	1.28	2.10	4.88	493-2178-2-ND	900	97.20	UWT1C151MCL1GS
	220	0.2	35.2	105	6.3	7.7	493-2179-1-ND	1.28	2.10	4.88	493-2179-2-ND	900	97.20	UWT1C221MCL1GS
	330	0.2	52.8	195	8.0	10.0	493-2180-1-ND	1.53	2.52	5.85	493-2180-2-ND	500	65.00	UWT1C331MNL1GS
	470	0.2	75.2	230	8.0	10.0	493-2181-1-ND	1.53	2.52	5.85	493-2181-2-ND	500	65.00	UWT1C471MNL1GS
	680	0.2	108.8	310	10.0	10.0	493-2182-1-ND	1.98	3.26	7.56	493-2182-2-ND	500	83.50	UWT1C681MNL1GS
25	4.7	0.16	3	10	3.0	5.4	493-2183-1-ND	.70	1.16	2.68	493-2183-2-ND	2,000	53.00/M	UWT1E4R7MCL2GB
	4.7	0.16	3	13	4.0	5.4	493-2184-1-ND	.70	1.16	2.68	493-2184-2-ND	2,000	53.00/M	UWT1E4R7MCL1GB
	10	0.16	3	23	5.0	5.4	493-2185-1-ND	.98	1.61	3.74	493-2185-2-ND	1,000	74.00	UWT1E100MCL1GB
	22	0.16	5.5	38	6.3	5.4	493-2186-1-ND	1.06	1.75	4.06	493-2186-2-ND	1,000	80.00	UWT1E220MCL1GB
	33	0.16	8.25	48	6.3	5.4	493-2187-1-ND	1.13	1.86	4.31	493-2187-2-ND	1,000	85.00	UWT1E330MCL1GB
	47	0.16	11.75	66	8.0	5.4	493-2189-1-ND	1.28	2.10	4.88	493-2189-2-ND	1,000	96.00	UWT1E470MCL1GB
	100	0.16	25	91	6.3	7.7	493-2190-1-ND	1.28	2.10	4.88	493-2190-2-ND	900	97.20	UWT1E101MCL1GS
	150	0.16	37.5	140	8.0	10.0	493-2191-1-ND	1.53	2.52	5.85	493-2191-2-ND	500	65.00	UWT1E151MNL1GS
	220	0.16	55	155	8.0	10.0	493-2192-1-ND	1.53	2.52	5.85	493-2192-2-ND	500	65.00	UWT1E221MNL1GS
	330	0.16	82.5	190	8.0	10.0	493-2193-1-ND	1.53	2.52	5.85	493-2193-2-ND	500	65.00	UWT1E331MNL1GS
	470	0.16	117.5	300	10.0	10.0	493-2194-1-ND	1.98	3.26	7.56	493-2194-2-ND	500	83.50	UWT1E471MNL1GS
35	2.2	0.14	3	7.5	3.0	5.4	493-2195-1-ND	.70	1.16	2.68	493-2195-2-ND	2,000	53.00/M	UWT1V2R2MCL2GB
	3.3	0.14	3	9	3.0	5.4	493-2196-1-ND	.81	1.33	3.09	493-2196-2-ND	2,000	61.00/M	UWT1V3R3MCL2GB
	4.7	0.14	3	15	4.0	5.4	493-2197-1-ND	.89	1.47	3.41	493-2197-2-ND	2,000	60.00/M	UWT1V4R7MCL1GB
	10	0.14	3.5	25	5.0	5.4	493-2198-1-ND	.98	1.61	3.74	493-2198-2-ND	1,000	74.00	UWT1V100MCL1GB
	22	0.14	7.7	42	6.3	5.4	493-2199-1-ND	1.06	1.75	4.06	493-2199-2-ND	1,000	80.00	UWT1V220MCL1GB
	33	0.14	11.55	59	8.0	5.4	493-2201-1-ND	1.28	2.10	4.88	493-2201-2-ND	1,000	96.00	UWT1V330MCL1GB
	47	0.14	16.45	63	6.3	5.8	493-2202-1-ND	1.28	2.10	4.88	493-2202-2-ND	1,000	96.00	UWT1V470MCL1GS
	100	0.14	35	84	6.3	7.7	493-2203-1-ND	1.28	2.10	4.88	493-2203-2-ND	900	97.20	UWT1V101MCL1GS
	150	0.14	52.5	155	8.0	10.0	493-2204-1-ND	1.53	2.52	5.85	493-2204-2-ND	500	65.00	UWT1V151MNL1GS
	220	0.14	77	190	8.0	10.0	493-2205-1-ND	1.91	3.15	7.31	493-2205-2-ND	500	81.00	UWT1V221MNL1GS
	330	0.14	115.5	300	10.0	10.0	493-2206-1-ND	1.98	3.26	7.56	493-2206-2-ND	500	83.50	UWT1V331MNL1GS
50	0.1	0.14	3	1	3.0	5.4	493-2207-1-ND	.70	1.16	2.68	493-2207-2-ND	2,000	53.00/M	UWT1H0R1MCL2GB
	0.1	0.14	3	1	4.0	5.4	493-2208-1-ND	.70	1.16	2.68	493-2208-2-ND	2,000	53.00/M	UWT1H0R1MCL1GB
	0.22	0.14	3	2.6	3.0	5.4	493-2209-1-ND	.70	1.16	2.68	493-2209-2-ND	2,000	53.00/M	UWT1HR22MCL2GB
	0.22	0.14	3	2.6	4.0	5.4	493-2210-1-ND	.70	1.16	2.68	493-2210-2-ND	2,000	53.00/M	UWT1HR22MCL1GB
	0.33	0.14	3	3.2	3.0	5.4	493-2211-1-ND	.70	1.16	2.68	493-2211-2-ND	2,000	53.00/M	UWT1HR33MCL2GB
	0.33	0.14	3	3.2	4.0	5.4	493-2212-1-ND	.70	1.16	2.68	493-2212-2-ND	2,000	53.00/M	UWT1HR33MCL1GB
	0.47	0.14	3	3.8	3.0	5.4	493-2213-1-ND	.70	1.16	2.68	—	—	—	UWT1HR47MCL2GB
	0.47	0.14	3	3.8	4.0	5.4	493-2214-1-ND	.70	1.16	2.68	493-2214-2-ND	2,000	53.00/M	UWT1HR47MCL1GB
	1	0.14	3	5.9	3.0	5.4	493-2215-1-ND	.70	1.16	2.68	493-2215-2-ND	2,000	53.00/M	UWT1H010MCL2GB
	1	0.14	3	6.3	4.0	5.4	493-2216-1-ND	.70	1.16	2.68	493-2216-2-ND	2,000	53.00/M	UWT1H010MCL1GB
	2.2	0.14	3	9	3.0	5.4	493-2217-1-ND	.70	1.16	2.68	493-2217-2-ND	2,000	53.00/M	UWT1H2R2MCL2GB
	2.2	0.14	3	11	4.0	5.4	493-2218-1-ND	.70	1.16	2.68	493-2218-2-ND	2,000	53.00/M	UWT1H2R2MCL1GB
	3.3	0.14	3	14	4.0	5.4	493-2219-1-ND	.81	1.33	3.09	493-2219-2-ND	2,000	61.00/M	UWT1H3R3MCL1GB
	4.7	0.14	3	19	5.0	5.4	493-2220-1-ND	.89	1.47	3.41	493-2220-2-ND	1,000	67.00	UWT1H4R7MCL1GB

(Continued)

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Cur. 120Hz/105°C (mA rms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing 5	Cut Tape Pricing 10	Cut Tape Pricing 25	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Nichicon Part No.
50	10	0.14	5	30	6.3	5.4	493-2221-1-ND	.98	1.61	3.74	493-2221-2-ND	1,000	74.00	UWT1H100MCL1GB
	22	0.14	11	51	8.0	5.4	493-2223-1-ND	1.28	2.10	4.88	493-2223-2-ND	1,000	96.00	UWT1H220MCL1GB
	33	0.14	16.5	60	6.3	7.7	493-2224-1-ND	1.28	2.10	4.88	493-2224-2-ND	900	97.20	UWT1H330MCL1GS
	47	0.14	23.5	63	6.3	7.7	493-2225-1-ND	1.28	2.10	4.88	493-2225-2-ND	900	97.20	UWT1H470MCL1GS
	100	0.14	50	140	8.0	10.0	493-2226-1-ND	1.53	2.52	5.85	493-2226-2-ND	500	65.00	UWT1H101MNL1GS
	150	0.14	75	180	10.0	10.0	493-2227-1-ND	1.98	3.26	7.56	493-2227-2-ND	500	83.50	UWT1H151MNL1GS
	220	0.14	110	220	10.0	10.0	493-2228-1-ND	1.98	3.26	7.56	493-2228-2-ND	500	83.50	UWT1H221MNL1GS

UD Series Aluminum Electrolytic Capacitors (SMT)

Low Impedance 105°C

Diameter D (mm): ø4 ~ ø6.3

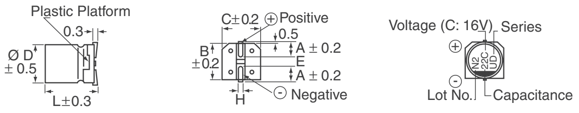

Diameter D (mm): ø8, ø10

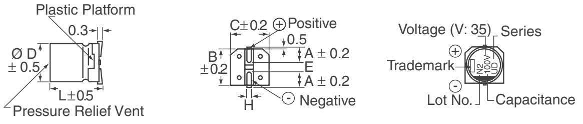

FEATURES:

- Chip type, low impedance temperature range up to 105°C • Designed for surface mounting on high density PC board • Applicable to automatic mounting machine using carrier tape
- **Marking:** Black print on the case top

Dim.	Diameter D (mm) x Dimension L (mm) 4.0 x 5.8	5.0 x 5.8	6.3 x 5.8	6.3 x 7.7	8.0 x 10.0	10.0 x 10.0
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
H	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.8-1.1	0.8-1.1

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Impedance ohms (Ω) Max. @20°C/100KHz	Leakage Current (µA)	Rated Ripple Cur. @100KHz/105°C (mA rms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing 5	Cut Tape Pricing 10	Cut Tape Pricing 25	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Nichicon Part No.
6.3	27	0.24	1.8	3	80	4.0	5.8	493-2229-1-ND	2.13	3.50	8.13	493-2229-2-ND	2,000	135.00/M	UUD0J270MCL1GS
	33	0.24	0.76	3	150	5.0	5.8	493-2230-1-ND	2.40	3.96	9.18	—	—	—	UUD0J330MCL1GS
	47	0.24	0.76	3	150	5.0	5.8	493-2231-1-ND	2.40	3.96	9.18	493-2231-2-ND	1,000	158.00	UUD0J470MCL1GS
	56	0.24	0.76	3.528	150	5.0	5.8	493-2232-1-ND	2.40	3.96	9.18	493-2232-2-ND	1,000	158.00	UUD0J560MCL1GS
	68	0.24	0.44	4.284	230	6.3	5.8	493-2233-1-ND	2.59	4.27	9.91	493-2233-2-ND	1,000	171.00	UUD0J680MCL1GS
	100	0.24	0.44	6.3	230	6.3	5.8	493-2234-1-ND	2.59	4.27	9.91	493-2234-2-ND	1,000	171.00	UUD0J101MCL1GS
	150	0.24	0.44	9.45	230	6.3	5.8	493-2235-1-ND	2.59	4.27	9.91	493-2235-2-ND	1,000	171.00	UUD0J151MCL1GS
	220	0.24	0.44	13.86	230	6.3	5.8	493-2236-1-ND	2.59	4.27	9.91	493-2236-2-ND	1,000	171.00	UUD0J221MCL1GS
	330	0.24	0.34	20.79	280	6.3	7.7	493-2237-1-ND	2.59	4.27	9.91	493-2237-2-ND	900	175.50	UUD0J331MCL1GS
	470	0.28	0.17	29.61	450	8.0	10.0	493-2238-1-ND	3.29	5.43	12.59	493-2238-2-ND	500	132.00	UUD0J471MNL1GS
	680	0.28	0.17	42.84	450	8.0	10.0	493-2239-1-ND	3.29	5.43	12.59	493-2239-2-ND	500	132.00	UUD0J681MNL1GS
	1000	0.28	0.17	63	450	8.0	10.0	493-2240-1-ND	3.29	5.43	12.59	493-2240-2-ND	500	132.00	UUD0J102MNL1GS
	1500	0.28	0.09	94.5	670	10.0	10.0	493-2241-1-ND	3.55	5.85	13.57	493-2241-2-ND	500	142.00	UUD0J152MNL1GS
10	22	0.2	1.8	3	80	4.0	5.8	493-2242-1-ND	2.13	3.50	8.13	493-2242-2-ND	2,000	135.00/M	UUD1A220MCL1GS
	27	0.2	0.76	3	150	5.0	5.8	493-2243-1-ND	2.40	3.96	9.18	493-2243-2-ND	1,000	158.00	UUD1A270MCL1GS
	33	0.2	0.76	3.3	150	5.0	5.8	493-2244-1-ND	2.40	3.96	9.18	493-2244-2-ND	1,000	158.00	UUD1A330MCL1GS
	47	0.2	0.44	4.7	230	6.3	5.8	493-2245-1-ND	2.59	4.27	9.91	493-2245-2-ND	1,000	171.00	UUD1A470MCL1GS
	56	0.2	0.44	5.6	230	6.3	5.8	493-2246-1-ND	2.59	4.27	9.91	493-2246-2-ND	1,000	171.00	UUD1A560MCL1GS
	68	0.2	0.44	6.8	230	6.3	5.8	493-2247-1-ND	2.59	4.27	9.91	493-2247-2-ND	1,000	171.00	UUD1A680MCL1GS
	100	0.2	0.44	10	230	6.3	5.8	493-2248-1-ND	2.59	4.27	9.91	493-2248-2-ND	1,000	171.00	UUD1A101MCL1GS
	150	0.2	0.44	15	230	6.3	5.8	493-2249-1-ND	2.59	4.27	9.91	493-2249-2-ND	1,000	171.00	UUD1A151MCL1GS
	220	0.2	0.34	22	280	6.3	7.7	493-2250-1-ND	2.74	4.52	10.48	493-2250-2-ND	900	185.40	UUD1A221MCL1GS
	330	0.24	0.17	33	450	8.0	10.0	493-2251-1-ND	3.29	5.43	12.59	493-2251-2-ND	500	132.00	UUD1A331MNL1GS
	470	0.24	0.17	47	450	8.0	10.0	493-2252-1-ND	3.29	5.43	12.59	493-2252-2-ND	500	132.00	UUD1A471MNL1GS
	680	0.24	0.09	68	670	10.0	10.0	493-2253-1-ND	3.55	5.85	13.57	493-2253-2-ND	500	142.00	UUD1A681MNL1GS
	1000	0.24	0.09	100	670	10.0	10.0	493-2254-1-ND	3.55	5.85	13.57	493-2254-2-ND	500	142.00	UUD1A102MNL1GS
16	15	0.16	1.8	3	80	4.0	5.8	493-2255-1-ND	2.13	3.50	8.13	493-2255-2-ND	2,000	135.00/M	UUD1C150MCL1GS
	22	0.16	0.76	3.52	150	5.0	5.8	493-2256-1-ND	2.40	3.96	9.18	493-2256-2-ND	1,000	158.00	UUD1C220MCL1GS
	27	0.16	0.76	4.32	150	5.0	5.8	493-2257-1-ND	2.40	3.96	9.18	493-2257-2-ND	1,000	158.00	UUD1C270MCL1GS
	33	0.16	0.44	5.28	230	6.3	5.8	493-2258-1-ND	2.59	4.27	9.91	493-2258-2-ND	1,000	171.00	UUD1C330MCL1GS
	47	0.16	0.44	7.52	230	6.3	5.8	493-2259-1-ND	2.59	4.27	9.91	493-2259-2-ND	1,000	171.00	UUD1C470MCL1GS
	56	0.16	0.44	8.96	230	6.3	5.8	493-2260-1-ND	2.59	4.27	9.91	493-2260-2-ND	1,000	171.00	UUD1C560MCL1GS
	68	0.16	0.44	10.88	230	6.3	5.8	493-2261-1-ND	2.59	4.27	9.91	493-2261-2-ND	1,000	171.00	UUD1C680MCL1GS
	100	0.16	0.44	16	230	6.3	5.8	493-2262-1-ND	2.59	4.27	9.91	493-2262-2-ND	1,000	171.00	UUD1C101MCL1GS
	150	0.16	0.34	24	280	6.3	7.7	493-2263-1-ND	2.74	4.52	10.48	493-2263-2-ND	900	185.40	UUD1C151MCL1GS
	220	0.16	0.34	35.2	280	6.3	7.7	493-2264-1-ND	2.74	4.52	10.48	493-2264-2-ND	900	185.40	UUD1C221MCL1GS
	330	0.2	0.17	52.8	450	8.0	10.0	493-2265-1-ND	3.29	5.43	12.59	493-2265-2-ND	500	132.00	UUD1C331MNL1GS
	470	0.2	0.17	75.2	450	8.0	10.0	493-2266-1-ND	3.29	5.43	12.59	493-2266-2-ND	500	132.00	UUD1C471MNL1GS
	680	0.2	0.09	108.8	670	10.0	10.0	493-2267-1-ND	3.55	5.85	13.57	493-2267-2-ND	500	142.00	UUD1C681MNL1GS
25	10	0.14	1.8	3	80	4.0	5.8	493-2268-1-ND	2.13	3.50	8.13	493-2268-2-ND	2,000	135.00/M	UUD1E100MCL1GS
	15	0.14	0.76	3.75	150	5.0	5.8	493-2269-1-ND	2.40	3.96	9.18	493-2269-2-ND	1,000	158.00	UUD1E150MCL1GS
	22	0.14	0.76	5.5	150	5.0	5.8	493-2270-1-ND	2.40	3.96	9.18	493-2270-2-ND	1,000	158.00	UUD1E220MCL1GS
	27	0.14	0.44	6.75	230	6.3	5.8	493-2271-1-ND	2.59	4.27	9.91	493-2271-2-ND	1,000	171.00	UUD1E270MCL1GS
	33	0.14	0.44	8.25	230	6.3	5.8	493-2272-1-ND	2.59	4.27	9.91	493-2272-2-ND	1,000	171.00	UUD1E330MCL1GS
	47	0.14	0.44	11.75	230	6.3	5.8	493-2273-1-ND	2.59	4.27	9.91	493-2273-2-ND	1,000	171.00	UUD1E470MCL1GS
	56	0.14	0.44	14	230	6.3	5.8	493-2274-1-ND	2.59	4.27	9.91	493-2274-2-ND	1,000	171.00	UUD1E560MCL1GS
	68	0.14	0.44	17	230	6.3	5.8	493-2275-1-ND	2.59	4.27	9.91	493-2275-2-ND	1,000	171.00	UUD1E680MCL1GS
	100	0.14	0.34	25	280	6.3	7.7	493-2276-1-ND	2.74	4.52	10.48	493-2276-2-ND	900	185.40	UUD1E101MCL1GS
	150	0.16	0.17	37.5	450	8.0	10.0	493-2277-1-ND	3.29	5.43	12.59	493-2277-2-ND	500	132.00	UUD1E151MNL1GS
	220	0.16	0.17	55	450	8.0	10.0	493-2278-1-ND	3.29	5.43	12.59	493-2278-2-ND	500	132.00	UUD1E221MNL1GS
	330	0.16	0.17	82.5	450	8.0	10.0	493-2279-1-ND	3.29	5.43	12.59	493-2279-2-ND	500	132.00	UUD1E331MNL1GS
	470	0.16	0.09	117.5	670	10.0	10.0	493-2280-1-ND	3.55	5.85	13.57	493-2280-2-ND	500	142.00	UUD1E471MNL1GS
35	4.7	0.12	1.8	3	80	4.0	5.8	493-2281-1-ND	2.13	3.50	8.13	493-2281-2-ND	2,000	135.00/M	UUD1V4R7MCL1GS
	10	0.12	0.76	3.5	150	5.0	5.8	493-2282-1-ND	2.40	3.96	9.18	493-2282-2-ND	1,000	158.00	UUD1V100MCL1GS
	15	0.12	0.76	5.25	150	5.0	5.8	493-2283-1-ND	2.40	3.96	9.18	493-2283-2-ND	1,000	158.00	UUD1V150MCL1GS
	22	0.12	0.76	7.7	150	5.0	5.8	493-2284-1-ND	2.40	3.96	9.18	493-2284-2-ND	1,000	158.00	UUD1V220MCL1GS
	27	0.12	0.44	9.45	230	6.3	5.8	493-2285-1-ND	2.59	4.27	9.91	493-2285-2-ND	1,000	171.00	UUD1V270MCL1GS
	33	0.12	0.44	11.55	230	6.3	5.8	493-2286-1-ND	2.59	4.27	9.91	493-2286-2-ND	1,000	171.00	UUD1V330MCL1GS
	47	0.12	0.44	16.45	230	6.3	5.8	493-2287-1-ND	2.59	4.27	9.91	493-2287-2-ND	1,000	171.00	UUD1V470MCL1GS
	56	0.12	0.34	19.6	280	6.3	7.7	493-2288-1-ND	2.74	4.52	10.48	493-2288-2-ND	900	185.40	UUD1V560MCL1GS
	68	0.12	0.34	23.8	280	6.3	7.7	493-2289-1-ND	2.74	4.52	10.48	493-2289-2-ND	900	185.40	UUD1V680MCL1GS
	100	0.14	0.17	35	450	8.0	10.0	493-2290-1-ND	3.29	5.43	12.59	493-2290-2-ND	500	132.00	UUD1V101MNL1GS
	150	0.14	0.17	52.5	450	8.0	10.0	493-2291-1-ND	3.29	5.43	12.59	493-2291-2-ND	500	132.00	UUD1V151MNL1GS
	220	0.14	0.17	77	450	8.0	10.0	493-2292-1-ND	3.29	5.43	12.59	493-2292-2-ND	500	132.00	UUD1V221MNL1GS
	330	0.14	0.09	115.5	670	10.0	10.0	493-2293-1-ND	3.55	5.85	13.57	493-2293-2-ND	500	142.00	UUD1V331MNL1GS

(Continued)

nichicon UD Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Impedance ohms (Ω) Max. @20°C/100KHz	Leakage Current (µA)	Rated Ripple Cur. @100KHz/105°C (mA rms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
50	1	0.12	5	3	30	4.0	5.8	493-2294-1-ND	2.13	3.50	8.13	493-2294-2-ND	2,000	135.00/M	UUD1H010MCL1GS
	2.2	0.12	5	3	30	4.0	5.8	493-2295-1-ND	2.13	3.50	8.13	493-2295-2-ND	2,000	135.00/M	UUD1H2R2MCL1GS
	3.3	0.12	5	3	30	4.0	5.8	493-2296-1-ND	2.13	3.50	8.13	493-2296-2-ND	2,000	135.00/M	UUD1H3R3MCL1GS
	4.7	0.12	1.52	3	85	5.0	5.8	493-2297-1-ND	2.40	3.96	9.18	493-2297-2-ND	1,000	158.00	UUD1H4R7MCL1GS
	10	0.12	0.88	5	165	6.3	5.8	493-2298-1-ND	2.59	4.27	9.91	493-2298-2-ND	1,000	171.00	UUD1H100MCL1GS
	15	0.12	0.88	7.5	165	6.3	5.8	493-2299-1-ND	2.59	4.27	9.91	493-2299-2-ND	1,000	171.00	UUD1H150MCL1GS
	22	0.12	0.88	11	165	6.3	5.8	493-2300-1-ND	2.59	4.27	9.91	493-2300-2-ND	1,000	171.00	UUD1H220MCL1GS
	27	0.12	0.68	13.5	185	6.3	7.7	493-2301-1-ND	2.74	4.52	10.48	493-2301-2-ND	900	185.40	UUD1H270MCL1GS
	33	0.12	0.68	16.5	185	6.3	7.7	493-2302-1-ND	2.74	4.52	10.48	493-2302-2-ND	900	185.40	UUD1H330MCL1GS
	47	0.12	0.68	23.5	185	6.3	7.7	493-2303-1-ND	2.74	4.52	10.48	493-2303-2-ND	900	185.40	UUD1H470MCL1GS
	56	0.14	0.34	28	300	8.0	10.0	493-2304-1-ND	3.29	5.43	12.59	493-2304-2-ND	500	132.00	UUD1H560MNL1GS
	68	0.14	0.34	34	300	8.0	10.0	493-2305-1-ND	3.29	5.43	12.59	493-2305-2-ND	500	132.00	UUD1H680MNL1GS
	100	0.14	0.34	50	300	8.0	10.0	493-2306-1-ND	3.29	5.43	12.59	493-2306-2-ND	500	132.00	UUD1H101MNL1GS
	150	0.14	0.18	75	670	10.0	10.0	493-2307-1-ND	3.55	5.85	13.57	493-2307-2-ND	500	142.00	UUD1H151MNL1GS
	220	0.14	0.18	110	670	10.0	10.0	493-2308-1-ND	3.55	5.85	13.57	493-2308-2-ND	500	142.00	UUD1H221MNL1GS

CF Series Aluminum Solid Electrolytic Capacitors

FEATURES:
• Ultra Low ESR, High ripple Current • Load Life of 2000 hours at 105°C • SMD Type: Lead Free reflow soldering condition at 260°C peak correspondence • Adapted to the RoHS Directive
• **Marking:** Navy blue print on the case top

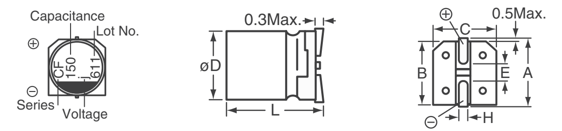

Dim.	Diameter D (mm) x Dimension L (mm) 6.3 x 6	8.0 x 7	10.0 x 8	10.0 x 10
A	7.3	9.0	11.0	11.0
B	6.6	8.3	10.3	10.3
C	6.6	8.3	10.3	10.3
E	2.1	3.2	4.6	4.6
H	0.5 ~ 0.8	0.8 ~ 1.1	0.8 ~ 1.1	0.8 ~ 1.1

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Rated Voltage Range	2.5 ~ 16V
Rated Capacitance Range	33 ~ 1500µF

Rated Voltage (VDC)	Cap. (µF)	tan δ	Leakage Current (µA)	Rated Ripple Cur. 100kHz/105°C (mArms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
2.5	220	0.12	110	2800	6.3	6	493-2975-1-ND	5.44	8.96	20.81	493-2975-2-ND	1,000	341.00	PCF0E221MCL1GS
	470	0.12	235	3300	8	7	493-2976-1-ND	6.13	10.09	23.43	493-2976-2-ND	1,000	384.00	PCF0E471MCL1GS
	820	0.12	410	4400	10	8	493-2977-1-ND	7.44	12.26	28.45	493-2977-2-ND	500	280.00	PCF0E821MCL1GS
	1500	0.12	750	4700	10	10	493-2978-1-ND	8.78	14.46	33.57	493-2978-2-ND	500	330.50	PCF0E152MCL1GS
4	100	0.12	80	2600	6.3	6	493-2979-1-ND	5.25	8.65	20.08	493-2979-2-ND	1,000	334.00	PCF0G101MCL1GS
	150	0.12	120	2800	6.3	6	493-2980-1-ND	5.37	8.84	20.52	493-2980-2-ND	1,000	336.00	PCF0G151MCL1GS
	330	0.12	264	3400	8	7	493-2981-1-ND	6.12	10.08	23.41	493-2981-2-ND	1,000	383.00	PCF0G331MCL1GS
	470	0.12	376	4200	10	8	493-2982-1-ND	6.84	11.26	26.14	493-2982-2-ND	500	257.50	PCF0G471MCL1GS
	680	0.12	544	4400	10	8	493-2983-1-ND	7.22	11.90	27.62	493-2983-2-ND	500	272.00	PCF0G681MCL1GS
	820	0.12	656	4800	10	10	493-2984-1-ND	7.68	12.65	29.36	493-2984-2-ND	500	289.00	PCF0G821MCL1GS
6.3	120	0.12	151	3000	6.3	6	493-2985-1-ND	5.37	8.84	20.52	493-2985-2-ND	1,000	336.00	PCF0J121MCL1GS
	150	0.12	189	3200	8	7	493-2986-1-ND	5.77	9.51	22.08	493-2986-2-ND	1,000	361.00	PCF0J151MCL1GS
	220	0.12	277	3400	8	7	493-2987-1-ND	6.03	9.94	23.07	493-2987-2-ND	1,000	378.00	PCF0J221MCL1GS
	330	0.12	416	4200	10	8	493-2988-1-ND	6.64	10.93	25.38	493-2988-2-ND	500	250.00	PCF0J331MCL1GS
	680	0.12	856	5000	10	10	493-2989-1-ND	7.57	12.47	28.96	493-2989-2-ND	500	285.00	PCF0J681MCL1GS
10	47	0.12	94	2600	6.3	6	493-2990-1-ND	5.15	8.49	19.70	493-2990-2-ND	1,000	327.00	PCF1A470MCL1GS
	56	0.12	112	2500	6.3	6	493-2991-1-ND	5.20	8.57	19.89	493-2991-2-ND	1,000	330.00	PCF1A560MCL1GS
	120	0.12	240	3000	8	7	493-2992-1-ND	6.38	10.51	24.39	493-2992-2-ND	1,000	399.00	PCF1A121MCL1GS
	150	0.12	300	3300	10	8	493-2993-1-ND	6.19	10.20	23.67	493-2993-2-ND	1,000	387.00	PCF1A151MCL1GS
	150	0.12	300	3200	8	7	493-2994-1-ND	5.91	9.74	22.61	493-2994-2-ND	1,000	370.00	PCF1A151MCL6GS
	270	0.12	540	3600	10	8	493-2995-1-ND	6.65	10.95	25.42	493-2995-2-ND	500	250.50	PCF1A271MCL1GS
	470	0.12	940	4600	10	10	493-2996-1-ND	7.28	11.99	27.84	493-2996-2-ND	500	274.00	PCF1A471MCL1GS
	560	0.12	1120	4800	10	10	493-2997-1-ND	7.70	12.68	29.44	493-2997-2-ND	500	290.00	PCF1A561MCL1GS
16	33	0.12	106	2400	6.3	6	493-2998-1-ND	5.27	8.67	20.13	493-2998-2-ND	1,000	335.00	PCF1C330MCL1GS
	39	0.12	124	2400	6.3	6	493-2999-1-ND	5.30	8.73	20.28	493-2999-2-ND	1,000	337.00	PCF1C390MCL1GS
	56	0.12	179	2900	8	7	493-3000-1-ND	5.82	9.59	22.26	493-3000-2-ND	1,000	364.00	PCF1C560MCL1GS
	82	0.12	262	3200	8	7	493-3001-1-ND	6.01	9.90	22.99	493-3001-2-ND	1,000	376.00	PCF1C820MCL1GS
	150	0.12	480	3500	10	8	493-3002-1-ND	6.86	11.30	26.24	493-3002-2-ND	500	258.50	PCF1C151MCL1GS
	220	0.12	704	3900	10	10	493-3003-1-ND	7.36	12.13	28.16	493-3003-2-ND	500	277.00	PCF1C221MCL1GS

LF Series Aluminum Solid Electrolytic Capacitors

FEATURES:
• Ultra Low ESR, High ripple Current • Load Life of 2000 hours at 105°C • Radial Type: Lead Free flow soldering condition complete correspondence • Adapted to the RoHS Directive
• **Marking:** Navy blue print on the case top

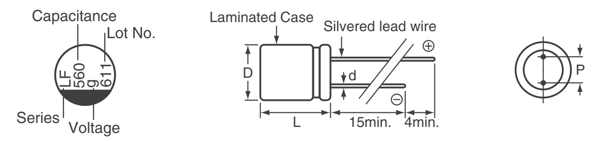

Dim.	Diameter D (mm) x Dimension L (mm) 8 x 9	8 x 12	10 x 13
øD	8.0	8.0	10.0
L	8.5	11.5	12.5
P	3.5	3.5	5.0
ød	0.6	0.6	0.6

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Rated Voltage Range	2.5 ~ 16V
Rated Capacitance Range	270 ~ 1000µF
Capacitance Tolerance	±20% @ 120Hz, 20°C

Rated Voltage (VDC)	Cap. (µF)	tan δ	Leakage Current (0.2CV)(µA)	Rated Ripple Cur. 100kHz/105°C (mArms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Pricing 1	10	100	Nichicon Part No.
2.5	560	0.08	280	4800	8	9	493-3004-ND	1.05	7.63	56.05	PLF0E561MCO1
	680	0.08	340	5700	8	12	493-3005-ND	1.09	7.90	58.00	PLF0E681MDO1
	820	0.08	410	5200	8	9	493-3006-ND	.98	7.51	56.31	PLF0E821MCO6
	820	0.08	410	6200	8	12	493-3007-ND	.99	7.65	57.35	PLF0E821MDO1
	1000	0.08	500	6500	10	13	493-3008-ND	1.09	8.39	62.90	PLF0E102MDO1
4	560	0.08	448	5200	8	9	493-3009-ND	1.08	7.83	57.52	PLF0G561MCO6
	560	0.08	448	5500	8	12	493-3010-ND	1.08	7.86	57.69	PLF0G561MDO1
	680	0.08	544	6200	8	12	493-3011-ND	.99	7.59	56.93	PLF0G681MDO1
	820	0.08	656	6500	10	13	493-3012-ND	1.07	8.20	61.47	PLF0G821MDO1
6.3	470	0.08	592	5200	8	9	493-3013-ND	1.18	9.11	68.32	PLF0J471MCO6
	470	0.08	592	5500	8	12	493-3014-ND	1.15	8.81	66.07	PLF0J471MDO1
	680	0.08	857	6300	10	13	493-3015-ND	1.28	9.87	74.03	PLF0J681MDO1
10	270	0.08	540	4900	8	12	493-3016-ND	1.09	8.37	62.77	PLF1A271MDO1
	470	0.08	940	5700	10	13	493-3017-ND	1.26	9.71	72.79	PLF1A471MDO1
16	270	0.08	864	4800	8	12	493-3018-ND	1.31	10.10	75.72	PLF1C271MDO1
	470	0.08	1504	5000	10	13	493-3019-ND	1.57	12.05	90.41	PLF1C471MDO1

nichicon LE Series Aluminum Electrolytic Capacitors

FEATURES:

- Ultra Low ESR, High ripple current • Load life of 2000 hours at 105°C • Radial lead type: Lead free flow soldering condition correspondence • Adapted to the RoHS directive
- **Marking:** Navy blue print on the case top

RoHS COMPLIANT

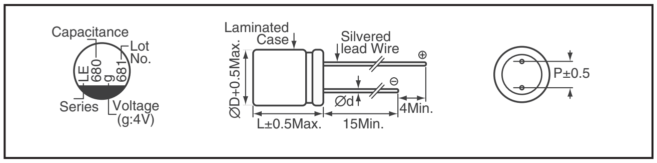

Dim.	Diameter D (mm) x Dimension L (mm) 8 x 9	8 x 12	10 x 13
øD	8.0	8.0	10.0
L	8.5	11.5	12.5
P	3.5	3.5	5.0
ød	0.6	0.6	0.6

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	Not more than value of standard ratings. After 2 minutes application of rated voltage 20°C.

Rated Voltage (VDC)	Capacitance (µF)	tan δ	Leakage Current (µA)	Rated Ripple Current 100kHz/105°C (mArms)	Diameter D (mm)	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
2.5	560	0.08	280	6000	8	493-3057-ND	1.92	1.46	1.16	PLE0E561MCO1
	820	0.08	410	6300	8	493-3058-ND	2.00	1.52	1.20	PLE0E821MCO6
	820	0.08	410	6600	8	493-3059-ND	2.29	1.74	1.38	PLE0E821MDO1
	1000	0.08	500	7100	8	493-3060-ND	1.92	1.46	1.16	PLE0E102MDO1
	1500	0.08	750	7300	8	493-3061-ND	2.00	1.52	1.20	PLE0E152MDO1
4	560	0.08	448	6000	8	493-3062-ND	2.29	1.74	1.38	PLE0G561MCO1
	680	0.08	544	6500	8	493-3063-ND	1.92	1.46	1.16	PLE0G681MDO1
	820	0.08	656	7000	10	493-3064-ND	2.00	1.52	1.20	PLE0G821MDO1
	1200	0.08	960	7200	10	493-3065-ND	2.29	1.74	1.38	PLE0G122MDO1
6.3	470	0.08	592	6400	8	493-3066-ND	1.92	1.46	1.16	PLE0J471MDO1
	680	0.08	857	6700	10	493-3067-ND	2.00	1.52	1.20	PLE0J681MDO1
	820	0.08	1033	6800	10	493-3068-ND	2.29	1.74	1.38	PLE0J821MDO1

LG Series Aluminum Electrolytic Capacitors

FEATURES:

- Higher capacitance, lower ESR • High ripple current • Load life of 2000 hours @ 105°C • Radial lead type: Lead free flow soldering condition correspondence • Adapted to the RoHS directive
- **Marking:** Navy blue print on the case top

RoHS COMPLIANT

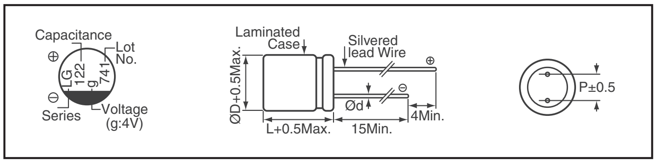

Dim.	Diameter D (mm) x Dimension L (mm) 8 x 9	8 x 12	10 x 13
øD	8.0	8.0	10.0
L	8.5	11.5	12.5
P	3.5	3.5	5.0
ød	0.6	0.6	0.6

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	Not more than value of standard ratings. After 2 minutes application of rated voltage 20°C.

Rated Voltage (VDC)	Capacitance (µF)	tan δ	Leakage Current (µA)	Rated Ripple Current 100kHz/105°C (mArms)	Diameter D (mm)	Digi-Key Part No.	Price Each 1	10	100	Nichicon Part No.
2.5	1800	0.08	900	6000	8	493-3101-ND	1.92	1.46	1.16	PLG0E182MCO1
	2200	0.08	1100	6700	8	493-3102-ND	2.00	1.52	1.20	PLG0E222MDO1
	3900	0.08	1950	7000	10	493-3103-ND	2.29	1.74	1.38	PLG0E392MDO1
4	1200	0.08	960	5900	8	493-3104-ND	1.92	1.46	1.16	PLG0G122MCO1
	1800	0.08	1440	6500	8	493-3105-ND	2.00	1.52	1.20	PLG0G182MDO1
	2700	0.08	2160	6900	10	493-3106-ND	2.29	1.74	1.38	PLG0G272MDO1
6.3	820	0.08	1033	5700	8	493-3107-ND	1.92	1.46	1.16	PLG0J821MCO1
	1200	0.08	1512	6100	8	493-3108-ND	2.00	1.52	1.20	PLG0J122MDO1
	1800	0.08	2268	6600	10	493-3109-ND	2.29	1.74	1.38	PLG0J182MDO1
10	560	0.08	1120	5100	8	493-3110-ND	1.92	1.46	1.16	PLG1A561MCO1
	820	0.08	1640	5800	8	493-3111-ND	2.00	1.52	1.20	PLG1A821MDO1
	1200	0.08	2400	6200	10	493-3112-ND	2.29	1.74	1.38	PLG1A122MDO1
16	330	0.08	1056	4700	8	493-3113-ND	1.92	1.46	1.16	PLG1C331MCO1
	470	0.08	1504	5400	8	493-3114-ND	2.00	1.52	1.20	PLG1C471MDO1
	820	0.08	2624	5600	10	493-3115-ND	2.29	1.74	1.38	PLG1C821MDO1

CG Series Aluminum Electrolytic Capacitors (SMT)

FEATURES: • Higher capacitance, low ESR • High ripple current • Load life of 2000 hours @ 105°C • SMD type: Lead free flow soldering condition at 260°C peak correspondence • Adapted to the RoHS directive

- **Marking:** Navy blue print on the case top

RoHS COMPLIANT

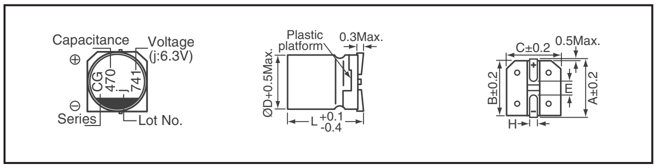

Dim.	Diameter D (mm) x Dimension L (mm) 5 x 6	6.3 x 6	8 x 7	10 x 8	10 x 10	10 x 12.7
øD	5.0	6.3	8.0	10.0	10.0	10.0
L	5.9	5.9	6.9	7.9	9.9	12.6
A	6.0	7.3	9.0	11.0	11.0	11.0
B	5.3	6.6	8.3	10.3	10.3	10.3
C	5.3	6.6	8.3	10.3	10.3	10.3
E	1.2	2.1	3.2	4.6	4.6	4.6
H	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1	0.8~1.1	0.8~1.1

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	Not more than value of standard ratings. After 2 minutes application of rated voltage 20°C.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Current@100kHz / 105°C (mArms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Nichicon Part No.
2.5	220	0.12	110	2100	5	6	493-3069-1-ND	1.77	1.46	1.36	493-3069-2-ND	1,000	554.00	PCG0E221MCL1GS
	470	0.12	235	2900	6.3	6	493-3070-1-ND	1.85	1.53	1.42	493-3070-2-ND	1,000	579.00	PCG0E471MCL1GS
	560	0.12	280	3000	6.3	6	493-3071-1-ND	1.85	1.53	1.42	493-3071-2-ND	1,000	579.00	PCG0E561MCL1GS
	820	0.12	410	3300	8	7	493-3072-1-ND	2.20	1.81	1.68	493-3072-2-ND	1,000	722.00	PCG0E821MCL1GS
	1500	0.12	750	4100	10	8	493-3073-1-ND	2.42	2.00	1.86	493-3073-2-ND	500	427.00	PCG0E152MCL1GS
	2700	0.12	1350	4700	10	10	493-3074-1-ND	2.63	2.17	2.01	493-3074-2-ND	500	463.50	PCG0E272MCL1GS
	3300	0.12	1650	5500	10	12.7	493-3075-1-ND	2.83	2.33	2.17	493-3075-2-ND	400	478.80	PCG0E332MCL1GS

(Continued)

CG Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Current@100kHz / 105°C (mArms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Nichicon Part No.
								5	10	25		Qty.	Pricing	
4	180	0.12	144	1900	5	6	493-3076-1-ND	1.77	1.46	1.36	493-3076-2-ND	1,000	554.00	PCG0G181MCL1GS
	390	0.12	312	2700	6.3	6	493-3077-1-ND	1.85	1.53	1.42	493-3077-2-ND	1,000	579.00	PCG0G391MCL1GS
	680	0.12	544	3200	8	7	493-3078-1-ND	2.20	1.81	1.68	493-3078-2-ND	1,000	722.00	PCG0G681MCL1GS
	1200	0.12	960	4000	10	8	493-3079-1-ND	2.42	2.00	1.86	493-3079-2-ND	500	427.00	PCG0G122MCL1GS
	2200	0.12	1760	4600	10	10	493-3080-1-ND	2.63	2.17	2.01	493-3080-2-ND	500	463.50	PCG0G222MCL1GS
	2700	0.12	2160	5300	10	12.7	493-3081-1-ND	2.83	2.33	2.17	493-3081-2-ND	400	478.80	PCG0G272MCL1GS
6.3	150	0.12	189	1800	5	6	493-3082-1-ND	1.77	1.46	1.36	493-3082-2-ND	1,000	554.00	PCG0J151MCL1GS
	270	0.12	340	2600	6.3	6	493-3083-1-ND	1.85	1.53	1.42	493-3083-2-ND	1,000	579.00	PCG0J271MCL1GS
	330	0.12	416	2700	6.3	6	493-3084-1-ND	1.85	1.53	1.42	493-3084-2-ND	1,000	579.00	PCG0J331MCL1GS
	470	0.12	592	3100	8	7	493-3085-1-ND	2.20	1.81	1.68	493-3085-2-ND	1,000	722.00	PCG0J471MCL1GS
	1000	0.12	1260	3800	10	8	493-3086-1-ND	2.42	2.00	1.86	493-3086-2-ND	500	427.00	PCG0J102MCL1GS
	1800	0.12	2268	4400	10	10	493-3087-1-ND	2.63	2.17	2.01	493-3087-2-ND	500	463.50	PCG0J182MCL1GS
	2200	0.12	2772	5000	10	12.7	493-3088-1-ND	2.83	2.33	2.17	493-3088-2-ND	400	478.80	PCG0J222MCL1GS
10	82	0.12	164	1700	5	6	493-3089-1-ND	1.77	1.46	1.36	493-3089-2-ND	1,000	554.00	PCG1A820MCL1GS
	150	0.12	300	2500	6.3	6	493-3090-1-ND	1.85	1.53	1.42	493-3090-2-ND	1,000	579.00	PCG1A151MCL1GS
	330	0.12	660	3100	8	7	493-3091-1-ND	2.20	1.81	1.68	493-3091-2-ND	1,000	722.00	PCG1A331MCL1GS
	560	0.12	1120	3600	10	8	493-3092-1-ND	2.42	2.00	1.86	493-3092-2-ND	500	427.00	PCG1A561MCL1GS
	820	0.12	1640	4300	10	10	493-3093-1-ND	2.63	2.17	2.01	493-3093-2-ND	500	463.50	PCG1A821MCL1GS
	1000	0.12	2000	4800	10	12.7	493-3094-1-ND	2.83	2.33	2.17	493-3094-2-ND	400	478.80	PCG1A102MCL1GS
16	47	0.12	150	1500	5	6	493-3095-1-ND	1.77	1.46	1.36	493-3095-2-ND	1,000	554.00	PCG1C470MCL1GS
	82	0.12	262	2300	6.3	6	493-3096-1-ND	1.85	1.53	1.42	493-3096-2-ND	1,000	579.00	PCG1C820MCL1GS
	150	0.12	480	2800	8	7	493-3097-1-ND	2.20	1.81	1.68	493-3097-2-ND	1,000	722.00	PCG1C151MCL1GS
	270	0.12	864	3300	10	8	493-3098-1-ND	2.42	2.00	1.86	493-3098-2-ND	500	427.00	PCG1C271MCL1GS
	470	0.12	1504	3700	10	10	493-3099-1-ND	2.63	2.17	2.01	493-3099-2-ND	500	463.50	PCG1C471MCL1GS
	680	0.12	2176	4100	10	12.7	493-3100-1-ND	2.83	2.33	2.17	493-3100-2-ND	400	478.80	PCG1C681MCL1GS

CJ Series Aluminum Electrolytic Capacitors (SMT)

F

FEATURES: • Higher capacitance, low ESR • High ripple current • Load life of 2000 hours @ 105°C • SMD type: Lead free flow soldering condition at 260°C peak correspondence • Adapted to the RoHS directive

• **Marking:** Navy blue print on the case top

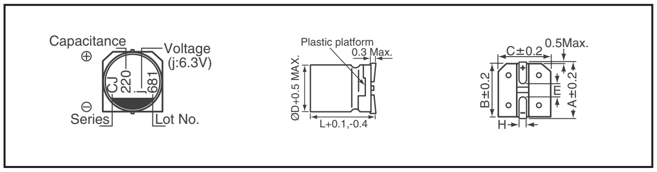

Dim.	Diameter D (mm) x Dimension L (mm)						
	5 x 6	6.3 x 6	8 x 7	8 x 12	10 x 8	10 x 10	10 x 12.7
øD	5.0	6.3	8.0	8.0	10.0	10.0	10.0
L	5.9	5.9	6.9	11.9	7.9	9.9	12.6
A	6.0	7.3	9.0	9.0	11.0	11.0	11.0
B	5.3	6.6	8.3	8.3	10.3	10.3	10.3
C	5.3	6.6	8.3	8.3	10.3	10.3	10.3
E	1.2	2.1	3.2	3.2	4.6	4.6	4.6
H	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1	0.8~1.1	0.8~1.1	0.8~1.1

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	Not more than value of standard ratings. After 2 minutes application of rated voltage 20°C.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Current@100kHz / 105°C (mArms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Nichicon Part No.
								5	10	25		Qty.	Pricing	
2.5	180	0.12	90	2500	5	6	493-3020-1-ND	1.83	1.51	1.40	493-3020-2-ND	1,000	572.00	PCJ0E181MCL1GS
	390	0.12	195	3400	6.3	6	493-3021-1-ND	1.87	1.54	1.43	493-3021-2-ND	1,000	585.00	PCJ0E391MCL1GS
	560	0.12	280	4000	8	7	493-3022-1-ND	2.32	1.91	1.78	493-3022-2-ND	1,000	764.00	PCJ0E561MCL1GS
	680	0.12	340	4100	8	7	493-3023-1-ND	2.32	1.91	1.78	493-3023-2-ND	1,000	764.00	PCJ0E681MCL1GS
	820	0.12	410	5300	8	12	493-3024-1-ND	2.56	2.11	1.96	493-3024-2-ND	400	433.60	PCJ0E821MCL1GS
	1200	0.12	600	4800	10	8	493-3025-1-ND	2.56	2.11	1.96	493-3025-2-ND	500	451.50	PCJ0E122MCL1GS
	1500	0.12	750	5300	8	12	493-3026-1-ND	2.56	2.11	1.96	493-3026-2-ND	400	433.60	PCJ0E152MCL1GS
	2200	0.12	1100	5400	10	10	493-3027-1-ND	2.66	2.19	2.04	493-3027-2-ND	500	469.00	PCJ0E222MCL1GS
	2700	0.12	1350	5800	10	12.7	493-3028-1-ND	2.75	2.27	2.11	493-3028-2-ND	400	465.60	PCJ0E272MCL1GS
4	150	0.12	120	2400	5	6	493-3029-1-ND	1.83	1.51	1.40	493-3029-2-ND	1,000	572.00	PCJ0G151MCL1GS
	330	0.12	264	3300	6.3	6	493-3030-1-ND	1.87	1.54	1.43	493-3030-2-ND	1,000	585.00	PCJ0G331MCL1GS
	560	0.12	448	4000	8	7	493-3031-1-ND	2.32	1.91	1.78	493-3031-2-ND	1,000	764.00	PCJ0G561MCL1GS
	560	0.12	448	5200	8	12	493-3032-1-ND	2.32	1.91	1.78	493-3032-2-ND	400	392.80	PCJ0G561MCL9GS
	1000	0.12	800	4600	10	8	493-3033-1-ND	2.56	2.11	1.96	493-3033-2-ND	500	451.50	PCJ0G102MCL1GS
	1200	0.12	960	5200	8	12	493-3034-1-ND	2.56	2.11	1.96	493-3034-2-ND	800	674.40	PCJ0G122MCL1GS
	1500	0.12	1200	5200	8	12	493-3035-1-ND	2.66	2.19	2.04	493-3035-2-ND	400	350.00	PCJ0G152MCL4GS
	1500	0.12	1200	5000	10	10	493-3036-1-ND	2.66	2.19	2.04	493-3036-2-ND	500	469.00	PCJ0G152MCL1GS
	1800	0.12	1440	5300	10	10	493-3037-1-ND	2.66	2.19	2.04	493-3037-2-ND	500	469.00	PCJ0G182MCL1GS
	2200	0.12	1760	5700	10	12.7	493-3038-1-ND	2.75	2.27	2.11	493-3038-2-ND	400	388.00	PCJ0G222MCL1GS
6.3	100	0.12	126	2300	5	6	493-3039-1-ND	1.83	1.51	1.40	493-3039-2-ND	1,000	572.00	PCJ0J101MCL1GS
	120	0.12	151	2300	5	6	493-3040-1-ND	1.83	1.51	1.40	493-3040-2-ND	1,000	572.00	PCJ0J121MCL1GS
	220	0.12	277	3200	6.3	6	493-3041-1-ND	1.87	1.54	1.43	493-3041-2-ND	1,000	585.00	PCJ0J221MCL1GS
	390	0.12	491	3900	8	7	493-3042-1-ND	2.32	1.91	1.78	493-3042-2-ND	1,000	764.00	PCJ0J391MCL1GS
	820	0.12	1033	5000	8	12	493-3043-1-ND	2.56	2.11	1.96	493-3043-2-ND	400	433.60	PCJ0J821MCL4GS
	820	0.12	1033	4500	10	8	493-3044-1-ND	2.56	2.11	1.96	493-3044-2-ND	500	451.50	PCJ0J821MCL1GS
	1500	0.12	1890	4800	10	10	493-3045-1-ND	2.66	2.19	2.04	493-3045-2-ND	500	469.00	PCJ0J152MCL1GS
	1800	0.12	2268	5200	10	12.7	493-3046-1-ND	2.75	2.27	2.11	493-3046-2-ND	400	465.60	PCJ0J182MCL1GS
10	68	0.12	136	2100	5	6	493-3047-1-ND	1.83	1.51	1.40	493-3047-2-ND	1,000	572.00	PCJ1A680MCL1GS
	120	0.12	240	2500	6.3	6	493-3048-1-ND	1.87	1.54	1.43	493-3048-2-ND	1,000	585.00	PCJ1A121MCL1GS
	270	0.12	540	3200	8	7	493-3049-1-ND	2.32	1.91	1.78	493-3049-2-ND	1,000	764.00	PCJ1A271MCL1GS
	470	0.12	940	3700	10	8	493-3050-1-ND	2.56	2.11	1.96	493-3050-2-ND	500	451.50	PCJ1A471MCL1GS
	680	0.12	1360	4600	10	10	493-3051-1-ND	2.66	2.19	2.04	493-3051-2-ND	500	469.00	PCJ1A681MCL1GS
16	39	0.12	124	1900	5	6	493-3052-1-ND	1.83	1.51	1.40	493-3052-2-ND	1,000	572.00	PCJ1C390MCL1GS
	68	0.12	217	2300	6.3	6	493-3053-1-ND	1.87	1.54	1.43	493-3053-2-ND	1,000	585.00	PCJ1C680MCL1GS
	120	0.12	384	3000	8	7	493-3054-1-ND	2.32	1.91	1.78	493-3054-2-ND	1,000	764.00	PCJ1C121MCL1GS
	220	0.12	704	3400	10	8	493-3055-1-ND	2.56	2.11	1.96	493-3055-2-ND	500	451.50	PCJ1C221MCL1GS
	330	0.12	1056	4100	10	10	493-3056-1-ND	2.66	2.19	2.04	493-3056-2-ND	500	469.00	PCJ1C331MCL1GS

SMG Series Aluminum Electrolytic Capacitors (Radial Lead)

General Purpose 85°C

Features: Miniature, General Purpose, Solvent Proof (except 350-450V), 85°C Maximum Temperature (2000 Hour Life)
Specifications: • **Operating Temperature:** -40°C ~ 85°C (6.3-400V), -25°C ~ 85°C (450V) • **Capacitance Tolerance:** ±20%

Leakage Current @ 20°C:

øD	DC Voltage	Test Time	Leakage Current (μA)	
≤ ø18	6.3-100V	After 1 Minute	I = 0.03CV or 4μA, whichever is greater	
	160-450V	After 1 Minute	CV≤ 1,000: I=0.1CV +40	CV>1,000: I=0.04CV +100
		After 5 Minutes	CV≤ 1,000: I=0.03CV +15	CV>1,000: I=0.02CV +25
≥ ø20	6.3-450V	After 3 Minutes	I=0.03CV	

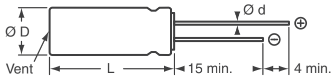

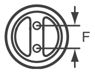

Rated W.V. (VDC)	Cap. (μF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
				øD	L	F	ød		1	10	100	
6.3	33	0.34	77	5.0	11.0	2.0	0.5	565-1000-ND	.23	1.45	9.76	ESMG6R3ELL330ME11D
	47	0.34	92	5.0	11.0	2.0	0.5	565-1001-ND	.23	1.46	9.85	ESMG6R3ELL470ME11D
	100	0.34	134	5.0	11.0	2.0	0.5	565-1002-ND	.23	1.45	9.76	ESMG6R3ELL101ME11D
	220	0.34	200	5.0	11.0	2.0	0.5	565-1003-ND	.24	1.50	10.13	ESMG6R3ELL221ME11D
	330	0.34	270	6.3	11.0	2.5	0.5	565-1004-ND	.28	1.75	11.77	ESMG6R3ELL331MF11D
	470	0.34	320	6.3	11.0	2.5	0.5	565-1005-ND	.28	1.75	11.77	ESMG6R3ELL471MF11D
	2200	0.36	1000	10.0	20.0	5.0	0.6	565-1006-ND	.38	2.81	20.05	ESMG6R3ELL222MJ20S
	3300	0.38	1185	10.0	20.0	5.0	0.6	565-1007-ND	.44	3.22	22.99	ESMG6R3ELL332MJ20S
	4700	0.40	1545	12.5	20.0	5.0	0.6	565-1008-ND	.59	4.31	30.79	ESMG6R3ELL472MK20S
	6800	0.44	1915	12.5	25.0	5.0	0.6	565-1009-ND	.68	5.08	37.31	ESMG6R3ELL682MK25S
	10000	0.52	2330	16.0	25.0	7.5	0.8	565-1010-ND	.96	7.17	52.66	ESMG6R3ELL103ML25S
	10000	0.46	2310	20.0	25.0	10.0	1.0	565-1011-ND	1.61	12.06	90.48	ESMG6R3ELL103MN25S
	15000	0.56	2660	20.0	30.0	10.0	1.0	565-1012-ND	1.75	13.09	98.16	ESMG6R3ELL153MN30S
	22000	0.76	3320	18.0	40.0	7.5	0.8	565-1013-ND	1.57	11.75	88.13	ESMG6R3ELL223MM40S
	22000	0.70	3130	20.0	40.0	10.0	1.0	565-1014-ND	1.96	14.73	110.51	ESMG6R3ELL223MN40S
	27000	0.80	3280	22.0	40.0	10.0	1.0	565-1015-ND	1.93	14.59	110.09	ESMG6R3ELL273MP40S
	39000	1.04	3560	25.4	40.0	12.5	1.0	565-1016-ND	2.83	21.43	161.71	ESMG6R3ELL393MQ40S
10	22	0.24	66	5.0	11.0	2.0	0.5	565-1017-ND	.23	1.48	9.94	ESMG100ELL220ME11D
	33	0.24	83	5.0	11.0	2.0	0.5	565-1018-ND	.23	1.47	9.90	ESMG100ELL330ME11D
	47	0.24	100	5.0	11.0	2.0	0.5	565-1019-ND	.25	1.60	10.81	ESMG100ELL470ME11D
	100	0.24	146	5.0	11.0	2.0	0.5	565-1020-ND	.25	1.59	10.72	ESMG100ELL101ME11D
	220	0.24	240	5.0	11.0	2.0	0.5	565-1021-ND	.25	1.58	10.64	ESMG100ELL221ME11D
	330	0.24	290	6.3	11.0	2.5	0.5	565-1022-ND	.30	2.05	14.42	ESMG100ELL331MF11D
	470	0.24	350	6.3	11.0	2.5	0.5	565-1023-ND	.26	1.66	11.21	ESMG100ELL471MF11D
	1000	0.24	650	10.0	12.5	5.0	0.6	565-1024-ND	.53	3.93	28.09	ESMG100ELL102MJC5S
	2200	0.26	1070	10.0	20.0	5.0	0.6	565-1025-ND	.56	4.12	29.42	ESMG100ELL222MJ20S
	3300	0.28	1420	12.5	20.0	5.0	0.6	565-1026-ND	.57	4.26	31.30	ESMG100ELL332MK20S
	4700	0.30	1780	12.5	25.0	5.0	0.6	565-1027-ND	.73	5.40	39.66	ESMG100ELL472MK25S
	6800	0.34	2220	16.0	25.0	7.5	0.8	565-1028-ND	1.00	7.47	54.83	ESMG100ELL682ML25S
	10000	0.42	2410	20.0	25.0	10.0	1.0	565-1029-ND	1.70	12.77	95.81	ESMG100ELL103MN25S
	15000	0.52	3080	18.0	35.5	7.5	0.8	565-1030-ND	1.36	10.20	76.51	ESMG100ELL153MMP1S
	22000	0.66	3480	22.0	40.0	10.0	1.0	565-1031-ND	2.18	16.51	124.63	ESMG100ELL223MP40S
	33000	0.88	3560	25.4	40.0	12.5	1.0	565-1032-ND	3.24	24.50	184.87	ESMG100ELL333MQ40S
16	10	0.20	50	5.0	11.0	2.0	0.5	565-1033-ND	1.95	14.60	109.49	ESMG160ELL100ME11D
	22	0.20	75	5.0	11.0	2.0	0.5	565-1034-ND	.23	1.48	9.94	ESMG160ELL220ME11D
	33	0.20	91	5.0	11.0	2.0	0.5	565-1035-ND	.23	1.43	9.63	ESMG160ELL330ME11D
	47	0.20	109	5.0	11.0	2.0	0.5	565-1036-ND	.25	1.60	10.81	ESMG160ELL470ME11D
	100	0.20	160	5.0	11.0	2.0	0.5	565-1037-ND	.25	1.62	10.90	ESMG160ELL101ME11D
	220	0.20	260	6.3	11.0	2.5	0.5	565-1038-ND	.28	1.75	11.81	ESMG160ELL221MF11D
	330	0.20	370	8.0	11.5	3.5	0.6	565-1039-ND	.30	2.01	14.16	ESMG160ELL331MHB5D
	470	0.20	440	8.0	11.5	3.5	0.6	565-1040-ND	.30	2.00	14.12	ESMG160ELL471MHB5D
	1000	0.20	785	10.0	16.0	5.0	0.6	565-1041-ND	.39	2.86	20.42	ESMG160ELL102MJ16S
	2200	0.22	1295	12.5	20.0	5.0	0.6	565-1042-ND	.55	4.05	28.95	ESMG160ELL222MK20S
	3300	0.24	1655	12.5	25.0	5.0	0.6	565-1043-ND	.66	4.94	36.27	ESMG160ELL332MK25S
	4700	0.26	2090	16.0	25.0	7.5	0.8	565-1044-ND	.91	6.79	49.86	ESMG160ELL472ML25S
	4700	0.26	1960	20.0	20.0	10.0	1.0	565-1045-ND	1.47	11.04	82.80	ESMG160ELL472MN20S
	6800	0.30	2520	16.0	31.5	7.5	0.8	565-1046-ND	1.05	7.88	59.10	ESMG160ELL682MLN3S
	6800	0.30	2330	20.0	25.0	10.0	1.0	565-1047-ND	1.66	12.42	93.13	ESMG160ELL682MN25S
	8200	0.34	2500	20.0	30.0	10.0	1.0	565-1048-ND	1.75	13.13	98.49	ESMG160ELL822MN30S
	10000	0.38	2920	18.0	35.5	7.5	0.8	565-1049-ND	1.52	11.39	85.45	ESMG160ELL103MMP1S
	12000	0.42	2900	20.0	40.0	10.0	1.0	565-1050-ND	1.87	14.19	107.12	ESMG160ELL123MN40S
	12000	0.42	2900	22.0	35.0	10.0	1.0	565-1051-ND	1.76	13.33	100.59	ESMG160ELL123MP35S
	15000	0.48	3380	22.0	40.0	10.0	1.0	565-1052-ND	2.27	17.22	129.99	ESMG160ELL153MP40S
	22000	0.62	3720	25.4	40.0	12.5	1.0	565-1053-ND	3.06	23.20	175.07	ESMG160ELL223MQ40S
25	4.7	0.16	36	5.0	11.0	2.5	0.5	565-1054-ND	.23	1.43	9.63	ESMG250ELL4R7ME11D
	10	0.16	53	5.0	11.0	2.0	0.5	565-1055-ND	.25	1.57	10.58	ESMG250ELL100ME11D
	22	0.16	78	5.0	11.0	2.0	0.5	565-1056-ND	.23	1.48	9.94	ESMG250ELL220ME11D
	33	0.16	96	5.0	11.0	2.0	0.5	565-1057-ND	.23	1.45	9.76	ESMG250ELL330ME11D
	47	0.16	115	5.0	11.0	2.0	0.5	565-1058-ND	.23	1.46	9.85	ESMG250ELL470ME11D
	100	0.16	190	6.3	11.0	2.0	0.5	565-1059-ND	.27	1.73	11.68	ESMG250ELL101MF11D
	220	0.16	330	8.0	11.5	3.5	0.6	565-1060-ND	.30	2.01	14.20	ESMG250ELL221MHB5D
	330	0.16	440	8.0	11.5	3.5	0.6	565-1061-ND	.30	2.03	14.32	ESMG250ELL331MHB5D
	470	0.16	545	10.0	12.5	5.0	0.6	565-1062-ND	.39	2.66	18.77	ESMG250ELL471MJC5S
	1000	0.16	955	10.0	20.0	5.0	0.6	565-1063-ND	.41	3.01	21.52	ESMG250ELL102MJ20S
	2200	0.18	1540	12.5	25.0	5.0	0.6	565-1064-ND	.68	5.03	36.97	ESMG250ELL222MK25S
	3300	0.20	1975	16.0	25.0	7.5	0.8	565-1065-ND	.94	6.98	51.25	ESMG250ELL332ML25S
	3300	0.20	1850	20.0	20.0	10.0	1.0	565-1066-ND	1.05	7.84	57.54	ESMG250ELL332MN20S
	4700	0.22	2420	16.0	31.5	7.5	0.8	565-1067-ND	1.01	7.57	56.75	ESMG250ELL472MLN3S
	4700	0.22	2420	20.0	25.0	10.0	1.0	565-1068-ND	1.18	8.82	66.11	ESMG250ELL472MN25S
	6800	0.26	2880	18.0	35.5	7.5	0.8	565-1069-ND	1.53	11.44	85.78	ESMG250ELL682MMP1S
	6800	0.26	2680	20.0	35.0	10.0	1.0	565-1070-ND	2.36	17.89	135.00	ESMG250ELL682MN35S
	6800	0.26	2510	22.0	30.0	10.0	1.0	565-1071-ND	1.79	13.57	102.38	ESMG250ELL682MP30S
	8200	0.30	2810	20.0	40.0	10.0	1.0	565-1072-ND	2.18	16.47	124.34	ESMG250ELL822MN40S
	8200	0.30	2810	22.0	35.0	10.0	1.0	565-1073-ND	2.23	16.87	127.31	ESMG250ELL822MP35S
	10000	0.34	3240	22.0	40.0	10.0	1.0	565-1074-ND	2.21	16.75	126.43	ESMG250ELL103MP40S
	12000	0.38	3240	22.0	40.0	10.0	1.0	565-1075-ND	2.30	17.42	131.46	ESMG250ELL123MP40S
	15000	0.44	3610	25.4	40.0	12.5	1.0	565-1076-ND	3.20	24.26	183.08	ESMG250ELL153MQ40S
35	4.7	0.14	40	5.0	11.0	2.0	0.5	565-1077-ND	.23	1.43	9.63	ESMG350ELL4R7ME11D
	10	0.14	59	5.0	11.0	2.0	0.5	565-1078-ND	.23	1.43	9.67	ESMG350ELL100ME11D
	22	0.14	88	5.0	11.0	2.0	0.5	565-1079-ND	.23	1.48	9.94	ESMG350ELL220ME11D
	33	0.14	108	5.0	11.0	2.0	0.5	565-1080-ND	.23	1.45	9.76	ESMG350ELL330ME11D
	47	0.14	130	5.0	11.0	2.0	0.5	565-1081-ND	.23	1.48	9.99	ESMG350ELL470ME11D
	100	0.14	210	6.3	11.0	2.5	0.5	565-1082-ND	.28	1.77	11.90	ESMG350ELL101MF11D
	220	0.14	385	8.0	11.5	3.5	0.6	565-1083-ND	1.87	14.19	107.12	ESMG350ELL221MHB5D
	330	0.14	490	10.0	12.5	5.0	0.6	565-1084-ND	.39	2.66	18.77	ESMG350ELL331MJC5S
	470	0.14	645	10.0	16.0	5.0	0.6	565-1085-ND	.36	2.65	18.91	ESMG350ELL471MJ16S
	1000	0.14	1145	12.5	20.0	5.0	0.6	565-1086-ND	.58	4.26	30.42	ESMG350ELL102MK20S
	2200	0.16	1785	16.0	25.0	7.5	0.8	565-1087-ND	.96	7.17	52.66	ESMG350ELL222ML25S
	2200	0.16	1670	20.0	20.0	10.0	1.0	565-1088-ND	1.51	11.35	85.12	ESMG350ELL222MN20S
	3300	0.18	2050	20.0	25.0	10.0	1.0	565-1089-ND	1.76	13.22	99.16	ESMG350ELL332MN25S
	3900	0.18	2310	20.0	30.0	10.0	1.0	565-1090-ND	1.98	14.87	111.51	ESMG350ELL392MN30S
	4700	0.20	2700	18.0	35.5	7.5	0.8	565-1091-ND	1.39	10.46	78.46	ESMG350ELL472MMP1S
	4700	0.20	2510	20.0	35.0	10.0	1.0	565-1092-ND	1.78	13.49	101.79	ESMG350ELL472MN35S
	4700	0.20	2380	22.0	30.0	10.0	1.0	565-1093-ND	1.78	13.49	101.79	ESMG350ELL472MP30S
	5600	0.22	2690	20.0	40.0	10.0	1.0	565-1094-ND	1.98	14.98	113.06	ESMG350ELL562MN40S

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SMG Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
				øD	L	F	ød		1	10	100	
35	5600	0.22	2690	22.0	35.0	10.0	1.0	565-1095-ND	1.98	14.98	113.06	ESMG350ELL562MP35S
	6800	0.24	3090	22.0	40.0	10.0	1.0	565-1096-ND	2.20	16.67	125.81	ESMG350ELL682MP40S
	10000	0.32	3480	25.4	40.0	12.5	1.0	565-1097-ND	3.17	24.02	181.31	ESMG350ELL103MQ40S
50	0.10	0.12	1.3	5.0	11.0	2.0	0.5	565-1098-ND	.23	1.43	9.67	ESMG500ELLR10ME11D
	0.22	0.12	2.9	5.0	11.0	2.0	0.5	565-1099-ND	.23	1.47	9.90	ESMG500ELLR22ME11D
	0.33	0.12	4.3	5.0	11.0	2.0	0.5	565-1100-ND	.23	1.43	9.67	ESMG500ELLR33ME11D
	0.47	0.12	6.2	5.0	11.0	2.0	0.5	565-1101-ND	.23	1.43	9.67	ESMG500ELLR47ME11D
	1.0	0.12	17	5.0	11.0	2.0	0.5	565-1102-ND	.22	1.42	9.58	ESMG500ELL1R0ME11D
	2.2	0.12	28	5.0	11.0	2.0	0.5	565-1103-ND	.23	1.44	9.72	ESMG500ELL2R2ME11D
	3.3	0.12	35	5.0	11.0	2.0	0.5	565-1104-ND	.23	1.43	9.67	ESMG500ELL3R3ME11D
	4.7	0.12	41	5.0	11.0	2.0	0.5	565-1105-ND	.23	1.43	9.63	ESMG500ELL4R7ME11D
	10	0.12	60	5.0	11.0	2.0	0.5	565-1106-ND	.23	1.43	9.67	ESMG500ELL100ME11D
	22	0.12	95	5.0	11.0	2.0	0.5	565-1107-ND	.23	1.48	9.94	ESMG500ELL220ME11D
	33	0.12	125	5.0	11.0	2.0	0.5	565-1108-ND	.23	1.48	9.94	ESMG500ELL330ME11D
	47	0.12	155	6.3	11.0	2.5	0.5	565-1109-ND	.28	1.76	11.86	ESMG500ELL470MF11D
	100	0.12	260	8.0	11.5	3.5	0.6	565-1110-ND	.30	2.01	14.20	ESMG500ELL101MHB5D
	220	0.12	430	10.0	12.5	5.0	0.6	565-1111-ND	.39	2.66	18.77	ESMG500ELL221MJC5S
	330	0.12	585	10.0	16.0	5.0	0.6	565-1112-ND	.37	2.75	19.64	ESMG500ELL331MJ16S
	470	0.12	755	10.0	20.0	5.0	0.6	565-1113-ND	.44	3.27	23.36	ESMG500ELL471MJ20S
	1000	0.12	1340	12.5	25.0	5.0	0.6	565-1114-ND	.71	5.32	39.04	ESMG500ELL102MK25S
	1500	0.12	1570	20.0	20.0	10.0	1.0	565-1115-ND	1.57	11.75	88.13	ESMG500ELL152MN20S
	2200	0.14	1880	20.0	25.0	10.0	1.0	565-1116-ND	1.88	14.20	107.20	ESMG500ELL222MN25S
	2700	0.14	2150	20.0	30.0	10.0	1.0	565-1117-ND	1.98	14.87	111.51	ESMG500ELL272MN30S
	3300	0.16	2500	18.0	35.5	7.5	0.8	565-1118-ND	1.64	12.33	92.47	ESMG500ELL332MMP1S
	3300	0.16	2420	20.0	35.0	10.0	1.0	565-1119-ND	1.92	14.55	109.80	ESMG500ELL332MN35S
	3300	0.16	2420	22.0	30.0	10.0	1.0	565-1120-ND	1.92	14.51	109.50	ESMG500ELL332MP30S
	3900	0.16	2590	22.0	35.0	10.0	1.0	565-1121-ND	2.03	15.34	115.74	ESMG500ELL392MP35S
	4700	0.18	2960	22.0	40.0	10.0	1.0	565-1122-ND	2.29	17.30	130.57	ESMG500ELL472MP40S
	6800	0.22	3360	25.4	40.0	12.5	1.0	565-1123-ND	3.48	26.38	199.11	ESMG500ELL682MQ40S
63	10	0.09	65	5.0	11.0	2.0	0.5	565-1124-ND	.23	1.46	9.81	ESMG630ELL100ME11D
	22	0.09	100	5.0	11.0	2.0	0.5	565-1125-ND	.23	1.48	9.99	ESMG630ELL220ME11D
	33	0.09	140	6.3	11.0	2.5	0.5	565-1126-ND	.28	1.77	11.90	ESMG630ELL330MF11D
	47	0.09	170	6.3	11.0	2.5	0.5	565-1127-ND	.29	1.82	12.27	ESMG630ELL470MF11D
	100	0.09	300	10.0	12.5	5.0	0.6	565-1128-ND	.38	2.61	18.37	ESMG630ELL101MJC5S
	220	0.09	490	10.0	16.0	5.0	0.6	565-1129-ND	.37	2.75	19.64	ESMG630ELL221MJ16S
	330	0.09	710	10.0	20.0	5.0	0.6	565-1130-ND	.44	3.22	22.99	ESMG630ELL331MJ20S
	470	0.09	900	12.5	20.0	5.0	0.6	565-1131-ND	.61	4.52	32.26	ESMG630ELL471MK20S
	820	0.09	1370	20.0	20.0	10.0	1.0	565-1132-ND	1.64	12.33	92.47	ESMG630ELL821MN20S
	1000	0.09	1300	16.0	25.0	7.5	0.8	565-1133-ND	1.03	7.64	56.12	ESMG630ELL102ML25S
	1000	0.09	1600	20.0	25.0	10.0	1.0	565-1134-ND	1.60	12.02	90.15	ESMG630ELL102MN25S
	1500	0.09	1850	20.0	30.0	10.0	1.0	565-1135-ND	1.89	14.16	106.18	ESMG630ELL152MN30S
	2200	0.11	2330	20.0	35.0	10.0	1.0	565-1136-ND	1.91	14.43	108.92	ESMG630ELL222MN35S
	2200	0.11	2190	22.0	30.0	10.0	1.0	565-1137-ND	1.90	14.39	108.62	ESMG630ELL222MP30S
	3300	0.13	2810	22.0	40.0	10.0	1.0	565-1138-ND	2.39	18.08	136.49	ESMG630ELL332MP40S
	3900	0.13	3100	25.4	40.0	12.5	1.0	565-1139-ND	2.94	22.25	167.95	ESMG630ELL392MQ40S
100	0.10	0.08	2.1	5.0	11.0	2.0	0.5	565-1140-ND	.23	1.48	9.94	ESMG101ELLR10ME11D
	0.22	0.08	4.7	5.0	11.0	2.0	0.5	565-1141-ND	.23	1.45	9.76	ESMG101ELLR22ME11D
	0.33	0.08	7.0	5.0	11.0	2.0	0.5	565-1142-ND	.23	1.45	9.76	ESMG101ELLR33ME11D
	0.47	0.08	10	5.0	11.0	2.0	0.5	565-1143-ND	.25	1.56	10.54	ESMG101ELLR47ME11D
	1.0	0.08	21	5.0	11.0	2.0	0.5	565-1144-ND	.23	1.45	9.76	ESMG101ELL1R0ME11D
	2.2	0.08	30	5.0	11.0	2.0	0.5	565-1145-ND	.23	1.43	9.63	ESMG101ELL2R2ME11D
	3.3	0.08	40	5.0	11.0	2.0	0.5	565-1146-ND	.23	1.43	9.67	ESMG101ELL3R3ME11D
	4.7	0.08	45	5.0	11.0	2.0	0.5	565-1147-ND	.23	1.44	9.72	ESMG101ELL4R7ME11D
	10	0.08	75	6.3	11.0	2.5	0.5	565-1148-ND	.27	1.73	11.68	ESMG101ELL100MF11D
	22	0.08	130	8.0	11.5	3.5	0.6	565-1149-ND	.27	1.83	12.94	ESMG101ELL220MHB5D
	33	0.08	180	8.0	11.5	3.5	0.6	565-1150-ND	.28	1.90	13.42	ESMG101ELL330MHB5D
	47	0.08	230	10.0	12.5	5.0	0.6	565-1151-ND	.37	2.50	17.63	ESMG101ELL470MJC5S
	100	0.08	370	10.0	20.0	5.0	0.6	565-1152-ND	.76	5.65	41.47	ESMG101ELL101MJ20S
	220	0.08	620	12.5	25.0	5.0	0.6	565-1153-ND	1.09	8.16	61.21	ESMG101ELL221MK25S
	330	0.08	760	12.5	25.0	5.0	0.6	565-1154-ND	.72	5.35	39.30	ESMG101ELL331MK25S
	330	0.08	870	20.0	20.0	10.0	1.0	565-1155-ND	1.88	14.10	105.75	ESMG101ELL331MN20S
	470	0.08	1000	16.0	25.0	7.5	0.8	565-1156-ND	.96	7.15	52.50	ESMG101ELL471ML25S
	680	0.08	1360	20.0	30.0	10.0	1.0	565-1157-ND	1.96	14.69	110.18	ESMG101ELL681MN30S
	820	0.08	1540	22.0	30.0	10.0	1.0	565-1158-ND	1.97	14.78	110.84	ESMG101ELL821MP30S
	1000	0.08	1380	18.0	40.0	7.5	0.8	565-1159-ND	1.49	11.19	83.91	ESMG101ELL102MM40S
	1000	0.08	1720	20.0	35.0	10.0	1.0	565-1160-ND	1.76	13.33	100.64	ESMG101ELL102MN35S
	1200	0.08	1980	22.0	40.0	10.0	1.0	565-1161-ND	2.11	15.96	120.48	ESMG101ELL122MP40S
	1800	0.08	2490	25.4	40.0	12.5	1.0	565-1162-ND	3.42	25.91	195.55	ESMG101ELL182MQ40S
160	3.3	0.20	40	6.3	11.0	2.5	0.5	565-1163-ND	.27	1.69	11.38	ESMG161ELL3R3MF11D
	4.7	0.20	48	6.3	11.0	2.5	0.5	565-1164-ND	.28	1.79	12.09	ESMG161ELL4R7MF11D
	10	0.20	94	10.0	12.5	5.0	0.6	565-1165-ND	.36	2.64	18.87	ESMG161ELL100MJC5S
	22	0.20	170	10.0	20.0	5.0	0.6	565-1166-ND	.43	3.17	22.64	ESMG161ELL220MJ20S
	33	0.20	205	10.0	20.0	5.0	0.6	565-1167-ND	.44	3.22	22.98	ESMG161ELL330MJ20S
	47	0.20	270	12.5	20.0	5.0	0.6	565-1168-ND	.61	4.46	31.89	ESMG161ELL470MK20S
	100	0.20	430	12.5	25.0	5.0	0.6	565-1169-ND	.67	5.00	36.71	ESMG161ELL101MK25S
	220	0.20	760	16.0	31.5	7.5	0.8	565-1170-ND	1.03	7.73	58.00	ESMG161ELL221MLN3S
	220	0.15	730	20.0	25.0	10.0	1.0	565-1171-ND	1.83	13.76	103.16	ESMG161ELL221MN25S
	330	0.20	995	18.0	35.5	7.5	0.8	565-1172-ND	1.33	9.99	74.95	ESMG161ELL331MMP1S
	330	0.15	920	20.0	30.0	10.0	1.0	565-1173-ND	1.87	14.15	106.83	ESMG161ELL331MN30S
	390	0.15	1160	22.0	30.0	10.0	1.0	565-1174-ND	1.94	14.67	110.68	ESMG161ELL391MP30S
	470	0.15	1340	20.0	40.0	10.0	1.0	565-1175-ND	2.28	17.26	130.28	ESMG161ELL471MN40S
	470	0.15	1340	22.0	35.0	10.0	1.0	565-1176-ND	2.36	17.85	134.72	ESMG161ELL471MP35S
	560	0.15	1470	22.0	40.0	10.0	1.0	565-1177-ND	2.50	18.91	142.73	ESMG161ELL561MP40S
	680	0.15	1570	25.4	40.0	12.5	1.0	565-1178-ND	3.35	25.33	191.17	ESMG161ELL681MQ40S
200	3.3	0.20	40	6.3	11.0	2.5	0.5	565-1179-ND	.29	1.83	12.32	ESMG201ELL3R3MF11D
	4.7	0.20	55	8.0	11.5	3.5	0.6	565-1180-ND	.32	2.16	15.22	ESMG201ELL4R7MHB5D
	10	0.20	94	10.0	12.5	5.0	0.6	565-1181-ND	.40	2.96	21.15	ESMG201ELL100MJC5S
	22	0.20	170	10.0	20.0	5.0	0.6	565-1182-ND	.47	3.43	24.50	ESMG201ELL220MJ20S
	33	0.20	205	10.0	20.0	5.0	0.6	565-1183-ND	.58	4.26	30.42	ESMG201ELL330MJ20S
	47	0.20	270	12.5	20.0	5.0	0.6	565-1184-ND	.61	4.56	33.47	ESMG201ELL470MK20S
	100	0.20	475	16.0	25.0	7.5	0.8	565-1185-ND	1.03	7.64	56.12	ESMG201ELL101ML25S
	100	0.15	460	20.0	20.0	10.0	1.0	565-1186-ND	1.58	11.84	88.79	ESMG201ELL101MN20S
	180	0.15	660	20.0	25.0	10.0	1.0	565-1187-ND	1.97	14.78	110.84	ESMG201ELL181MN25S
	220	0.20	810	18.0	35.5	7.5	0.8	565-1188-ND	1.66	12.46	93.46	ESMG201ELL221MMP1S
	220	0.15	750	20.0	30.0	10.0	1.0	565-1189-ND	1.90	14.39	108.62	ESMG201ELL221MN30S
	270	0.15	830	20.0	30.0	10.0	1.0	565-1190-ND	2.02	15.29	115.42	ESMG201ELL271MN30S
	330	0.15	1070	20.0	35.0	10.0	1.0	565-1191-ND	2.25	17.06	128.78	ESMG201ELL331MN35S
	330	0.15	1070	22.0	30.0	10.0	1.0	565-1192-ND	2.85	21.55	162.62	ESMG201ELL331MP30S
	390	0.15	1190	20.0	40.0	10.0	1.0	565-1193-ND	2.50	18.91	142.73	ESMG201ELL391MN40S
	390	0.15	1160	22.0	30.0	10.0	1.0	565-1194-ND	5.80	43.89	331.28	ESMG201ELL391MP30S
	470	0.15	1350	22.0	40.0	10.0	1.0	565-1195-ND	2.77	20.95	158.15	ESMG201ELL471MP40S
	560	0.15	1430	22.0	40.0	10.0	1.0	565-1196-ND	3.33	25.20	190.20	ESMG201ELL561MP40S
	680	0.15	1620	25.4	40.0	12.5	1.0	565-1197-ND	4.03	30.51	230.28	ESMG201ELL681MQ40S
250	2.2	0.20	32	6.3	11.0	2.5	0.5	565-1198-ND	.29	1.82	12.27	ESMG251ELL2R2MF11D
	3.3	0.20	46	8.0	11.5	3.5	0.6	565-1199-ND	.30	2.06	14.53	ESMG251ELL3R3MHB5D
	4.7	0.20	55	8.0	11.5	3.5	0.6	565-1200-ND	.32	2.16	15.22	ESMG251ELL4R7MHB5D
	10	0.20	105	10.0	16.0	5.0	0.6	565-1201-ND	.44	3.22	22.99	ESMG251ELL100MJ16S

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SMG Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
				øD	L	F	ød		1	10	100	
250	22	0.20	170	10.0	20.0	5.0	0.6	565-1202-ND	.52	3.84	27.44	ESMG251ELL220MJ20S
	33	0.20	230	12.5	20.0	5.0	0.6	565-1203-ND	.62	4.61	33.82	ESMG251ELL330MK20S
	47	0.20	295	12.5	25.0	5.0	0.6	565-1204-ND	.77	5.70	41.84	ESMG251ELL470MK25S
	82	0.15	420	20.0	20.0	10.0	1.0	565-1205-ND	1.82	13.62	102.17	ESMG251ELL820MN20S
	100	0.20	515	16.0	31.5	7.5	0.8	565-1206-ND	1.20	8.99	67.44	ESMG251ELL101MLN3S
	120	0.15	530	20.0	25.0	10.0	1.0	565-1207-ND	1.91	14.47	109.21	ESMG251ELL121MN25S
	180	0.15	680	20.0	30.0	10.0	1.0	565-1208-ND	1.58	11.84	88.79	ESMG251ELL181MN30S
	220	0.20	825	18.0	40.0	7.5	0.8	565-1209-ND	1.96	14.86	112.18	ESMG251ELL221MM40S
	220	0.15	780	20.0	35.0	10.0	1.0	565-1210-ND	2.19	16.59	125.22	ESMG251ELL221MN35S
	220	0.15	820	22.0	30.0	10.0	1.0	565-1211-ND	2.16	16.32	123.16	ESMG251ELL221MP30S
	270	0.15	880	20.0	40.0	10.0	1.0	565-1212-ND	2.36	17.89	135.02	ESMG251ELL271MN40S
	270	0.15	880	22.0	35.0	10.0	1.0	565-1213-ND	1.80	13.60	102.68	ESMG251ELL271MP35S
	330	0.15	1060	22.0	40.0	10.0	1.0	565-1214-ND	2.77	20.95	158.15	ESMG251ELL331MP40S
	390	0.15	1200	25.4	40.0	12.5	1.0	565-1215-ND	3.82	28.94	218.39	ESMG251ELL391MQ40S
350	0.47	0.24	15	6.3	11.0	2.5	0.5	565-1216-ND	.32	2.15	15.13	ESMG351ELLR47MF11D
	1.0	0.24	22	6.3	11.0	2.5	0.5	565-1217-ND	.32	2.19	15.42	ESMG351ELL1R0MF11D
	2.2	0.24	38	8.0	11.5	3.5	0.6	565-1218-ND	.35	2.61	18.65	ESMG351ELL2R2MHB5D
	3.3	0.24	46	8.0	11.5	3.5	0.6	565-1219-ND	.34	2.54	18.14	ESMG351ELL3R3MHB5D
	4.7	0.24	65	10.0	12.5	5.0	0.6	565-1220-ND	.41	3.01	21.52	ESMG351ELL4R7MJC5S
	10	0.24	115	10.0	20.0	5.0	0.6	565-1221-ND	.50	3.69	26.34	ESMG351ELL100MJ20S
	22	0.24	185	12.5	20.0	5.0	0.6	565-1222-ND	.70	5.17	38.00	ESMG351ELL220MK20S
	33	0.24	275	16.0	25.0	7.5	0.8	565-1223-ND	1.00	7.45	54.74	ESMG351ELL330ML25S
	47	0.24	325	16.0	25.0	7.5	0.8	565-1224-ND	1.11	8.33	62.44	ESMG351ELL470ML25S
	47	0.15	310	20.0	20.0	10.0	1.0	565-1225-ND	1.76	13.22	99.16	ESMG351ELL470MN20S
	100	0.15	500	20.0	30.0	10.0	1.0	565-1226-ND	2.19	16.55	124.92	ESMG351ELL101MN30S
	220	0.15	890	25.4	40.0	12.5	1.0	565-1227-ND	4.06	30.71	231.75	ESMG351ELL221MQ40S
400	1.0	0.24	22	6.3	11.0	2.5	0.5	565-1228-ND	.32	2.19	15.42	ESMG401ELL1R0MF11D
	3.3	0.24	54	10.0	12.5	5.0	0.6	565-1229-ND	.42	3.06	21.89	ESMG401ELL3R3MJC5S
	4.7	0.24	71	10.0	16.0	5.0	0.6	565-1230-ND	.44	3.27	23.36	ESMG401ELL4R7MJ16S
	10	0.24	115	10.0	20.0	5.0	0.6	565-1231-ND	.52	3.84	27.44	ESMG401ELL100MJ20S
	22	0.24	205	12.5	25.0	5.0	0.6	565-1232-ND	.79	5.89	43.22	ESMG401ELL220MK25S
	33	0.24	275	16.0	25.0	7.5	0.8	565-1233-ND	1.00	7.52	56.41	ESMG401ELL330ML25S
	33	0.15	260	20.0	20.0	10.0	1.0	565-1234-ND	2.08	15.71	118.60	ESMG401ELL330MN20S
	47	0.24	350	16.0	31.5	7.5	0.8	565-1235-ND	1.25	9.39	70.45	ESMG401ELL470MLN3S
	56	0.15	350	20.0	25.0	10.0	1.0	565-1236-ND	1.79	13.57	102.38	ESMG401ELL560MN25S
	68	0.15	420	20.0	30.0	10.0	1.0	565-1237-ND	1.42	10.64	79.79	ESMG401ELL680MN30S
	100	0.15	520	20.0	35.0	10.0	1.0	565-1238-ND	1.97	14.94	112.77	ESMG401ELL101MN35S
	100	0.15	520	22.0	30.0	10.0	1.0	565-1239-ND	2.36	17.89	135.02	ESMG401ELL101MP30S
	120	0.15	580	20.0	40.0	10.0	1.0	565-1240-ND	2.68	20.33	153.41	ESMG401ELL121MN40S
	120	0.15	580	22.0	35.0	10.0	1.0	565-1241-ND	2.64	20.01	151.03	ESMG401ELL121MP35S
	180	0.15	790	25.4	40.0	12.5	1.0	565-1242-ND	3.95	29.92	225.81	ESMG401ELL181MQ40S
450	0.47	0.24	13	10.0	12.5	5.0	0.6	565-1243-ND	.42	3.06	21.89	ESMG451ELLR47MJC5S
	1.0	0.24	19	10.0	12.5	5.0	0.6	565-1244-ND	.41	3.01	21.52	ESMG451ELL1R0MJC5S
	2.2	0.24	32	10.0	12.5	5.0	0.6	565-1245-ND	.42	3.06	21.89	ESMG451ELL2R2MJC5S
	3.3	0.24	44	10.0	16.0	5.0	0.6	565-1246-ND	.47	3.48	24.87	ESMG451ELL3R3MJ16S
	4.7	0.24	56	10.0	20.0	5.0	0.6	565-1247-ND	.51	3.79	27.08	ESMG451ELL4R7MJ20S
	10	0.24	91	12.5	20.0	5.0	0.6	565-1248-ND	1.00	7.46	54.76	ESMG451ELL100MK20S
	22	0.24	165	16.0	25.0	7.5	0.8	565-1249-ND	1.04	7.74	56.85	ESMG451ELL220ML25S
	22	0.20	180	20.0	20.0	10.0	1.0	565-1250-ND	1.69	12.69	95.15	ESMG451ELL220MN20S
	33	0.24	215	16.0	31.5	7.5	0.8	565-1251-ND	1.48	11.13	83.46	ESMG451ELL330MLN3S
	33	0.20	240	20.0	25.0	10.0	1.0	565-1252-ND	1.76	13.29	100.29	ESMG451ELL330MN25S
	47	0.24	265	16.0	35.5	7.5	0.8	565-1253-ND	1.67	12.51	93.79	ESMG451ELL470MLP1S
	47	0.20	290	20.0	25.0	10.0	1.0	565-1254-ND	1.94	14.70	110.98	ESMG451ELL470MN25S
	56	0.20	320	20.0	30.0	10.0	1.0	565-1255-ND	2.47	18.72	141.26	ESMG451ELL560MN30S
	68	0.20	370	20.0	35.0	10.0	1.0	565-1256-ND	2.49	18.83	142.14	ESMG451ELL680MN35S
	68	0.20	370	22.0	30.0	10.0	1.0	565-1257-ND	2.58	19.54	147.47	ESMG451ELL680MP30S
	82	0.20	420	20.0	40.0	10.0	1.0	565-1258-ND	2.55	19.31	145.70	ESMG451ELL820MN40S
	82	0.20	420	22.0	35.0	10.0	1.0	565-1259-ND	2.55	19.34	146.00	ESMG451ELL820MP35S
	100	0.20	470	22.0	40.0	10.0	1.0	565-1260-ND	3.01	22.80	172.10	ESMG451ELL101MP40S
	120	0.20	520	25.4	40.0	12.5	1.0	565-1261-ND	4.15	31.46	237.40	ESMG451ELL121MQ40S

KMG Series Aluminum Electrolytic Capacitors (Radial Lead)

General Purpose 105°C

Features: Miniature, General Purpose, Solvent Proof (except 350-450V), 105°C Maximum Temperature (1000 ~ 2000 Hour Life)
Specifications: • Operating Temperature: -55°C ~ 105°C (6.3-100V), -40°C ~ 105°C (160-400V), -25°C ~ 105°C (450V) **• Capacitance Tolerance:** ±20%
Leakage Current @ 20°C:

DC Voltage	Test Time	Leakage Current (µA)	
6.3-100V	After 1 Minute	I = 0.03CV or 4µA,whichever is greater	
160-450V	After 1 Minute	CV≤ 1,000: I=0.1CV +40	CV>1,000: I=0.04CV +100
	After 5 Minutes	CV≤ 1,000: I=0.03CV +15	CV>1,000: I=0.02CV +25

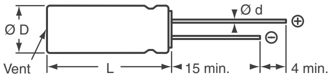

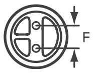

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
				øD	L	F	ød		1	10	100	
6.3	47	0.34	64	5	11	2.0	0.5	565-1262-ND	.23	1.46	9.85	EKMG6R3ELL470ME11D
	100	0.34	94	5	11	2.0	0.5	565-1263-ND	.23	1.45	9.76	EKMG6R3ELL101ME11D
	220	0.34	140	5	11	2.0	0.5	565-1264-ND	.24	1.53	10.30	EKMG6R3ELL221ME11D
	330	0.34	190	6.3	11	2.5	0.5	565-1265-ND	.23	1.56	11.03	EKMG6R3ELL331MF11D
	470	0.34	230	6.3	11	2.5	0.5	565-1266-ND	.25	1.61	10.87	EKMG6R3ELL471MF11D
	1000	0.34	380	8	11.5	3.5	0.6	565-1267-ND	.28	1.87	13.20	EKMG6R3ELL102MHB5D
	2200	0.36	710	10	20	5.0	0.6	565-1268-ND	.38	2.78	19.89	EKMG6R3ELL222MJ20S
	3300	0.38	840	10	20	5.0	0.6	565-1269-ND	.52	3.82	27.25	EKMG6R3ELL332MJ20S
	4700	0.40	1090	12.5	20	5.0	0.6	565-1270-ND	.55	4.03	28.79	EKMG6R3ELL472MK20S
	6800	0.44	1350	12.5	25	5.0	0.6	565-1271-ND	.66	4.91	36.07	EKMG6R3ELL682MK25S
	10000	0.52	1650	16	25	7.5	0.8	565-1272-ND	.93	6.93	50.90	EKMG6R3ELL103ML25S
	20000	0.76	2350	18	40	7.5	0.8	565-1273-ND	1.58	11.84	88.84	EKMG6R3ELL223MM40S
10	22	0.24	46	5	11	2.0	0.5	565-1274-ND	.23	1.47	9.90	EKMG100ELL220ME11D
	33	0.24	57	5	11	2.0	0.5	565-1275-ND	.23	1.45	9.76	EKMG100ELL330ME11D
	47	0.24	68	5	11	2.0	0.5	565-1276-ND	.23	1.46	9.85	EKMG100ELL470ME11D
	100	0.24	100	5	11	2.0	0.5	565-1277-ND	.23	1.45	9.76	EKMG100ELL101ME11D
	220	0.24	170	6.3	11	2.5	0.5	565-1278-ND	.31	2.11	14.85	EKMG100ELL221MF11D
	330	0.24	200	6.3	11	2.5	0.5	565-1279-ND	.27	1.81	12.77	EKMG100ELL331MF11D
	470	0.24	250	8	11.5	3.5	0.6	565-1280-ND	.29	2.00	14.08	EKMG100ELL471MHB5D
	1000	0.24	460	10	12.5	5.0	0.6	565-1281-ND	.36	2.46	17.35	EKMG100ELL102MJC5S
	2200	0.26	760	10	20	5.0	0.6	565-1282-ND	.39	2.88	20.57	EKMG100ELL222MJ20S
	3300	0.28	1000	12.5	20	5.0	0.6	565-1283-ND	.53	3.89	27.77	EKMG100ELL332MK20S
	4700	0.30	1260	12.5	25	5.0	0.6	565-1284-ND	.62	4.61	33.84	EKMG100ELL472MK25S
	6800	0.34	1570	16	25	7.5	0.8	565-1285-ND	1.52	11.39	85.43	EKMG100ELL682ML25S
	10000	0.42	1890	16	35.5	7.5	0.8	565-1286-ND	1.16	8.68	65.09	EKMG100ELL103MLP1S
	15000	0.52	2180	18	35.5	7.5	0.8	565-1287-ND	1.42	10.65	79.90	EKMG100ELL153MMP1S

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KMG Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
				øD	L	F	ød		1	10	100	
16	10	0.20	34	5	11	2.0	0.5	565-1288-ND	.23	1.43	9.67	EKMG160ELL100ME11D
	22	0.20	51	5	11	2.0	0.5	565-1289-ND	.23	1.47	9.90	EKMG160ELL220ME11D
	33	0.20	63	5	11	2.0	0.5	565-1290-ND	.23	1.45	9.76	EKMG160ELL330ME11D
	47	0.20	75	5	11	2.0	0.5	565-1291-ND	.23	1.46	9.85	EKMG160ELL470ME11D
	100	0.20	110	5	11	2.0	0.5	565-1292-ND	.31	1.98	13.33	EKMG160ELL101ME11D
	220	0.20	180	6.3	11	2.5	0.5	565-1293-ND	.27	1.81	12.77	EKMG160ELL221MF11D
	330	0.20	260	8	11.5	3.5	0.6	565-1294-ND	.34	2.54	18.12	EKMG160ELL331MHB5D
	470	0.20	310	8	11.5	3.5	0.6	565-1295-ND	.27	1.85	13.01	EKMG160ELL471MHB5D
	1000	0.20	560	10	16	5.0	0.6	565-1296-ND	.58	4.28	30.58	EKMG160ELL102MJ16S
	2200	0.22	920	12.5	20	5.0	0.6	565-1297-ND	.70	5.23	38.37	EKMG160ELL222MK20S
	3300	0.24	1170	12.5	25	5.0	0.6	565-1298-ND	.63	4.68	34.34	EKMG160ELL332MK25S
	4700	0.26	1480	16	25	7.5	0.8	565-1299-ND	.87	6.45	47.38	EKMG160ELL472ML25S
	6800	0.30	1780	16	31.5	7.5	0.8	565-1300-ND	1.07	7.94	58.31	EKMG160ELL682MLN3S
	10000	0.38	2060	18	35.5	7.5	0.8	565-1301-ND	1.40	10.49	78.68	EKMG160ELL103MMP1S
25	4.7	0.16	25	5	11	2.0	0.5	565-1302-ND	.23	1.43	9.63	EKMG250ELL4R7ME11D
	10	0.16	36	5	11	2.0	0.5	565-1303-ND	.25	1.60	10.77	EKMG250ELL100ME11D
	22	0.16	54	5	11	2.0	0.5	565-1304-ND	.23	1.47	9.90	EKMG250ELL220ME11D
	47	0.16	80	5	11	2.0	0.5	565-1306-ND	.21	1.36	9.15	EKMG250ELL470ME11D
	100	0.16	130	6.3	11	2.5	0.5	565-1307-ND	.25	1.60	10.79	EKMG250ELL101MF11D
	220	0.16	230	8	11.5	3.5	0.6	565-1308-ND	.35	2.39	16.87	EKMG250ELL221MHB5D
	330	0.16	310	8	11.5	3.5	0.6	565-1309-ND	.28	1.88	13.24	EKMG250ELL331MHB5D
	470	0.16	380	10	12.5	5.0	0.6	565-1310-ND	.46	3.42	24.43	EKMG250ELL471MJC5S
	1000	0.16	680	10	20	5.0	0.6	565-1311-ND	.40	2.93	20.91	EKMG250ELL102MJ20S
	2200	0.18	1090	12.5	25	5.0	0.6	565-1312-ND	1.34	10.04	75.28	EKMG250ELL222MK25S
	3300	0.20	1400	16	25	7.5	0.8	565-1313-ND	1.23	9.23	69.22	EKMG250ELL332ML25S
	4700	0.22	1710	16	31.5	7.5	0.8	565-1314-ND	1.01	7.57	56.75	EKMG250ELL472MLN3S
	6800	0.26	2040	18	35.5	7.5	0.8	565-1315-ND	1.45	10.86	81.43	EKMG250ELL682MMP1S
35	4.7	0.14	28	5	11	2.0	0.5	565-1316-ND	.23	1.43	9.63	EKMG350ELL4R7ME11D
	10	0.14	41	5	11	2.0	0.5	565-1317-ND	.23	1.43	9.67	EKMG350ELL100ME11D
	22	0.14	61	5	11	2.0	0.5	565-1318-ND	.23	1.47	9.90	EKMG350ELL220ME11D
	33	0.14	75	5	11	2.0	0.5	565-1319-ND	.25	1.58	10.67	EKMG350ELL330ME11D
	47	0.14	90	5	11	2.0	0.5	565-1320-ND	.28	1.80	12.12	EKMG350ELL470ME11D
	100	0.14	150	6.3	11	2.5	0.5	565-1321-ND	.24	1.63	11.51	EKMG350ELL101MF11D
	220	0.14	270	8	11.5	3.5	0.6	565-1322-ND	.42	3.12	22.30	EKMG350ELL221MHB5D
	330	0.14	350	10	12.5	5.0	0.6	565-1323-ND	.36	2.46	17.35	EKMG350ELL331MJC5S
	470	0.14	460	10	16	5.0	0.6	565-1324-ND	.40	2.73	19.22	EKMG350ELL471MJ16S
	1000	0.14	810	12.5	20	5.0	0.6	565-1325-ND	.54	3.98	28.45	EKMG350ELL102MK20S
	2200	0.16	1260	16	25	7.5	0.8	565-1326-ND	.91	6.76	49.62	EKMG350ELL222ML25S
	4700	0.20	1910	18	35.5	7.5	0.8	565-1327-ND	1.45	10.86	81.43	EKMG350ELL472MMP1S
50	0.10	0.12	1.3	5	11	2.0	0.5	565-1328-ND	.22	1.42	9.58	EKMG500ELLR10ME11D
	0.22	0.12	2.9	5	11	2.0	0.5	565-1329-ND	.23	1.47	9.90	EKMG500ELLR22ME11D
	0.33	0.12	4.3	5	11	2.0	0.5	565-1330-ND	.23	1.48	9.94	EKMG500ELLR33ME11D
	0.47	0.12	6.2	5	11	2.0	0.5	565-1331-ND	.21	1.33	8.98	EKMG500ELLR47ME11D
	1.0	0.12	13	5	11	2.0	0.5	565-1332-ND	.27	1.72	11.60	EKMG500ELL1R0ME11D
	2.2	0.12	20	5	11	2.0	0.5	565-1333-ND	.27	1.72	11.60	EKMG500ELL2R2ME11D
	4.7	0.12	30	5	11	2.0	0.5	565-1335-ND	.27	1.72	11.60	EKMG500ELL4R7ME11D
	10	0.12	40	5	11	2.0	0.5	565-1336-ND	.21	1.33	8.98	EKMG500ELL100ME11D
	22	0.12	65	5	11	2.0	0.5	565-1337-ND	.25	1.69	11.94	EKMG500ELL220ME11D
	33	0.12	90	5	11	2.0	0.5	565-1338-ND	.21	1.36	9.19	EKMG500ELL330ME11D
	47	0.12	110	6.3	11	2.5	0.5	565-1339-ND	.23	1.57	11.10	EKMG500ELL470MF11D
	100	0.12	180	8	11.5	3.5	0.6	565-1340-ND	.28	1.88	13.24	EKMG500ELL101MHB5D
	220	0.12	300	10	12.5	5.0	0.6	565-1341-ND	.36	2.46	17.35	EKMG500ELL221MJC5S
	330	0.12	410	10	16	5.0	0.6	565-1342-ND	.34	2.54	18.15	EKMG500ELL331MJ16S
	470	0.12	530	10	20	5.0	0.6	565-1343-ND	.42	3.07	21.93	EKMG500ELL471MJ20S
	1000	0.12	950	12.5	25	5.0	0.6	565-1344-ND	.69	5.13	37.70	EKMG500ELL102MK25S
	2200	0.14	1470	16	35.5	7.5	0.8	565-1345-ND	1.27	9.50	71.21	EKMG500ELL222MLP1S
	3300	0.16	1770	18	35.5	7.5	0.8	565-1346-ND	1.55	11.64	87.28	EKMG500ELL332MMP1S
63	10	0.10	46	5	11	2.0	0.5	565-1347-ND	.23	1.45	9.76	EKMG630ELL100ME11D
	22	0.10	71	5	11	2.0	0.5	565-1348-ND	.27	1.72	11.60	EKMG630ELL220ME11D
	33	0.10	100	6.3	11	2.5	0.5	565-1349-ND	.26	1.64	11.04	EKMG630ELL330MF11D
	47	0.10	120	6.3	11	2.5	0.5	565-1350-ND	.27	1.68	11.34	EKMG630ELL470MF11D
	100	0.10	215	10	12.5	5.0	0.6	565-1351-ND	.35	2.59	18.47	EKMG630ELL101MJC5S
	220	0.10	335	10	16	5.0	0.6	565-1352-ND	.35	2.59	18.49	EKMG630ELL221MJ16S
	330	0.10	510	10	20	5.0	0.6	565-1353-ND	.40	2.97	21.25	EKMG630ELL331MJ20S
	470	0.10	640	12.5	20	5.0	0.6	565-1354-ND	.57	4.18	29.84	EKMG630ELL471MK20S
	1000	0.10	930	16	25	7.5	0.8	565-1355-ND	1.00	7.46	54.76	EKMG630ELL102ML25S
100	0.10	0.08	1.5	5	11	2.0	0.5	565-1356-ND	.24	1.51	10.17	EKMG101ELLR10ME11D
	0.22	0.08	3.4	5	11	2.0	0.5	565-1357-ND	.23	1.43	9.67	EKMG101ELLR22ME11D
	0.33	0.08	5.0	5	11	2.0	0.5	565-1358-ND	.23	1.43	9.67	EKMG101ELLR33ME11D
	0.47	0.08	7.1	5	11	2.0	0.5	565-1359-ND	.23	1.57	11.04	EKMG101ELLR47ME11D
	1.0	0.08	15	5	11	2.0	0.5	565-1360-ND	.25	1.69	11.94	EKMG101ELL1R0ME11D
	2.2	0.08	21	5	11	2.0	0.5	565-1361-ND	.28	1.79	12.08	EKMG101ELL2R2ME11D
	3.3	0.08	29	5	11	2.0	0.5	565-1362-ND	.33	2.21	15.61	EKMG101ELL3R3ME11D
	4.7	0.08	32	5	11	2.0	0.5	565-1363-ND	.25	1.69	11.94	EKMG101ELL4R7ME11D
	10	0.08	54	6.3	11	2.5	0.5	565-1364-ND	.33	2.27	16.01	EKMG101ELL100MF11D
	22	0.08	93	8	11.5	3.5	0.6	565-1365-ND	.52	3.86	27.57	EKMG101ELL220MHB5D
	33	0.08	130	8	11.5	3.5	0.6	565-1366-ND	.28	1.90	13.38	EKMG101ELL330MHB5D
	47	0.08	165	10	12.5	5.0	0.6	565-1367-ND	.36	2.46	17.35	EKMG101ELL470MJC5S
	100	0.08	265	10	20	5.0	0.6	565-1368-ND	.40	2.93	20.91	EKMG101ELL101MJ20S
	220	0.08	440	12.5	25	5.0	0.6	565-1369-ND	1.28	9.61	72.07	EKMG101ELL221MK25S
	330	0.08	540	16	25	7.5	0.8	565-1370-ND	.87	6.50	47.70	EKMG101ELL331ML25S
	470	0.08	715	16	31.5	7.5	0.8	565-1371-ND	1.12	8.39	62.93	EKMG101ELL471MLN3S
	1000	0.08	985	18	40	7.5	0.8	565-1372-ND	1.74	13.04	97.80	EKMG101ELL102MM40S
160	3.3	0.20	28	6.3	11	2.5	0.5	565-1373-ND	.27	1.69	11.38	EKMG161ELL3R3MF11D
	4.7	0.20	34	6.3	11	2.5	0.5	565-1374-ND	.26	1.66	11.17	EKMG161ELL4R7MF11D
	10	0.20	67	10	12.5	5.0	0.6	565-1375-ND	.36	2.68	19.13	EKMG161ELL100MJC5S
	22	0.20	120	10	20	5.0	0.6	565-1376-ND	.45	3.31	23.66	EKMG161ELL220MJ20S
	33	0.20	145	10	20	5.0	0.6	565-1377-ND	.56	4.19	30.80	EKMG161ELL330MJ20S
	47	0.20	195	12.5	20	5.0	0.6	565-1378-ND	.59	4.32	30.86	EKMG161ELL470MK20S
	100	0.20	335	16	25	7.5	0.8	565-1379-ND	1.83	13.75	103.15	EKMG161ELL101ML25S
	220	0.20	540	16	31.5	7.5	0.8	565-1380-ND	1.25	9.38	70.33	EKMG161ELL221MLN3S
	330	0.20	705	18	35.5	7.5	0.8	565-1381-ND	1.65	12.38	92.85	EKMG161ELL331MMP1S
200	3.3	0.20	28	6.3	11	2.5	0.5	565-1382-ND	.29	1.83	12.32	EKMG201ELL3R3MF11D
	4.7	0.20	39	8	11.5	5.0	0.6	565-1383-ND	.32	2.15	15.17	EKMG201ELL4R7MHB5D
	10	0.20	74	10	16	5.0	0.6	565-1384-ND	.43	3.17	22.62	EKMG201ELL100MJ16S
	22	0.20	120	10	20	5.0	0.6	565-1385-ND	.49	3.58	25.60	EKMG201ELL220MJ20S
	33	0.20	160	12.5	20	5.0	0.6	565-1386-ND	.59	4.37	32.09	EKMG201ELL330MK20S
	47	0.20	195	12.5	20	5.0	0.6	565-1387-ND	.63	4.70	34.51	EKMG201ELL470MK20S
	100	0.20	335	16	25	7.5	0.8	565-1388-ND	1.02	7.59	55.77	EKMG201ELL101ML25S
	220	0.20	575	18	35.5	7.5	0.8	565-1389-ND	1.69	12.71	95.32	EKMG201ELL221MMP1S
250	2.2	0.20	23	6.3	11	2.5	0.5	565-1390-ND	.27	1.68	11.34	EKMG251ELL2R2MF11D
	3.3	0.20	32	8	11	3.5	0.6	565-1391-ND	.28	1.90	13.42	EKMG251ELL3R3MHB5D
	4.7	0.20	39	8	11.5	3.5	0.6	565-1392-ND	.29	1.99	14.02	EKMG251ELL4R7MF11D
	10	0.20	74	10	16	5.0	0.6	565-1393-ND	.58	4.28	30.59	EKMG251ELL100MJ16S
	22	0.20	130	12.5	20	5.0	0.6	565-1394-ND	.57	4.23	30.18	EKMG251ELL220MK20S

(Continued)

KMG Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
250	33	0.20	160	12.5	20	5.0	0.6	565-1395-ND	.61	4.52	33.16	EKMG251ELL330MK20S
	47	0.20	210	12.5	25	5.0	0.6	565-1396-ND	.73	5.44	39.94	EKMG251ELL470MK25S
	100	0.20	365	16	31.5	7.5	0.8	565-1397-ND	1.18	8.88	66.63	EKMG251ELL101MLN3S
	220	0.20	585	18	40	7.5	0.8	565-1398-ND	1.83	13.70	102.72	EKMG251ELL221MM40S
350	0.47	0.24	11	6.3	11	2.5	0.5	565-1399-ND	.29	1.99	14.06	EKMG351ELLR47MF11D
	1.0	0.24	15	6.3	11	2.5	0.5	565-1400-ND	.32	2.18	15.34	EKMG351ELL1R0MF11D
	2.2	0.24	26	8	11.5	3.5	0.6	565-1401-ND	.35	2.60	18.58	EKMG351ELL2R2MHB5D
	3.3	0.24	38	10	12.5	5.0	0.6	565-1402-ND	.41	3.01	21.52	EKMG351ELL3R3MJC5S
	4.7	0.24	50	10	16	5.0	0.6	565-1403-ND	.44	3.22	22.99	EKMG351ELL4R7MJ16S
	10	0.24	80	10	20	5.0	0.6	565-1404-ND	.50	3.65	26.09	EKMG351ELL100MJ20S
	22	0.24	130	12.5	20	5.0	0.6	565-1405-ND	.66	4.91	36.07	EKMG351ELL220MK20S
	33	0.24	195	16	25	7.5	0.8	565-1406-ND	1.05	7.87	59.05	EKMG351ELL330ML25S
	47	0.24	230	16	25	7.5	0.8	565-1407-ND	1.23	9.21	69.10	EKMG351ELL470ML25S
400	1.0	0.24	15	6.3	11	2.5	0.5	565-1408-ND	.32	2.18	15.34	EKMG401ELL1R0MF11D
	2.2	0.24	26	8	11.5	3.5	0.6	565-1409-ND	.32	2.15	15.14	EKMG401ELL2R2MHB5D
	3.3	0.24	38	10	12.5	5.0	0.6	565-1410-ND	.39	2.88	20.57	EKMG401ELL3R3MJC5S
	4.7	0.24	50	10	16	5.0	0.6	565-1411-ND	.40	2.97	21.25	EKMG401ELL4R7MJ16S
	10	0.24	80	10	20	5.0	0.6	565-1412-ND	.51	3.75	26.75	EKMG401ELL100MJ20S
	22	0.24	145	12.5	25	5.0	0.6	565-1413-ND	.71	5.26	38.66	EKMG401ELL220MK25S
	33	0.24	195	16	25	7.5	0.8	565-1414-ND	1.03	7.69	56.50	EKMG401ELL330ML25S
	47	0.24	250	16	31.5	7.5	0.8	565-1415-ND	1.17	8.80	66.02	EKMG401ELL470MLN3S
	100	0.24	350	16	40	7.5	0.8	565-1416-ND	1.95	14.74	111.27	EKMG401ELL101ML40S
450	1.0	0.24	13	10	12.5	5.0	0.6	565-1417-ND	.39	2.88	20.57	EKMG451ELL1R0MJC5S
	2.2	0.24	23	10	12.5	5.0	0.6	565-1418-ND	.39	2.88	20.57	EKMG451ELL2R2MJC5S
	3.3	0.24	31	10	16	5.0	0.6	565-1419-ND	.44	3.22	22.98	EKMG451ELL3R3MJ16S
	4.7	0.24	40	10	20	5.0	0.6	565-1420-ND	.52	3.84	27.43	EKMG451ELL4R7MJ20S
	10	0.24	65	12.5	20	5.0	0.6	565-1421-ND	.67	4.96	36.39	EKMG451ELL100MK20S
	22	0.24	115	16	25	7.5	0.8	565-1422-ND	1.03	7.68	56.40	EKMG451ELL220ML25S
	33	0.24	155	16	31.5	7.5	0.8	565-1423-ND	1.51	11.35	85.14	EKMG451ELL330MLN3S

KXG Series Aluminum Electrolytic Capacitors (Radial Lead)

Long Life High Ripple Current 105°C

Features: Miniature, Long Life (8-10K Hours), For Electronic Ballasts, 105°C Maximum Temperature

Specifications: • Operating Temperature: -40°C ~ 105°C (160-400V), -25°C ~ 105°C (450V), **• Capacitance Tolerance:** ±20%

Leakage Current @ 20°C:

CV Product	After 1 Minute	After 5 Minutes
CV ≤ 1,000	I = 0.1CV +40µA	I = 0.03CV +15µA
CV > 1,000	I = 0.04CV +100µA	I=0.02CV +25µA

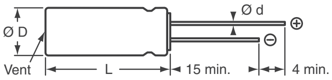

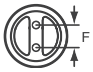

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @105°C 120Hz	100kHz	Dimensions (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
160	22	0.20	200	500	10.0	20.0	5.0	0.6	565-1424-ND	.43	3.15	22.50	EKXG161ELL220MJ20S
	33	0.20	250	625	10.0	20.0	5.0	0.6	565-1425-ND	.43	3.15	22.50	EKXG161ELL330MJ20S
	47	0.20	300	750	10.0	20.0	5.0	0.6	565-1426-ND	.52	3.85	27.50	EKXG161ELL470MJ20S
	100	0.20	620	1395	12.5	25.0	5.0	0.6	565-1427-ND	.82	6.08	44.65	EKXG161ELL101MK25S
	100	0.20	630	1420	16.0	20.0	7.5	0.8	565-1428-ND	.87	6.47	47.51	EKXG161ELL101ML20S
	150	0.20	770	1735	16.0	20.0	7.5	0.8	565-1429-ND	.99	7.36	54.05	EKXG161ELL151ML20S
	220	0.20	1020	2295	16.0	25.0	7.5	0.8	565-1430-ND	1.12	8.40	63.00	EKXG161ELL221ML25S
	330	0.20	1390	3130	18.0	31.5	7.5	0.8	565-1431-ND	1.76	13.20	99.00	EKXG161ELL331MMN3S
200	10	0.20	125	315	10.0	16.0	5.0	0.6	565-1432-ND	.43	3.15	22.50	EKXG201ELL100MJ16S
	22	0.20	200	500	10.0	20.0	5.0	0.6	565-1433-ND	.48	3.50	25.00	EKXG201ELL220MJ20S
	33	0.20	260	650	10.0	20.0	5.0	0.6	565-1434-ND	.52	3.85	27.50	EKXG201ELL330MJ20S
	47	0.20	390	975	12.5	20.0	5.0	0.6	565-1435-ND	.65	4.80	35.25	EKXG201ELL470MK20S
	68	0.20	470	1175	12.5	20.0	5.0	0.6	565-1436-ND	.69	5.12	37.60	EKXG201ELL680MK20S
	100	0.20	630	1420	16.0	20.0	7.5	0.8	565-1437-ND	.96	7.18	52.73	EKXG201ELL101ML20S
	150	0.20	840	1890	16.0	25.0	7.5	0.8	565-1438-ND	1.08	8.10	60.75	EKXG201ELL151ML25S
	220	0.20	1050	2365	18.0	25.0	7.5	0.8	565-1439-ND	1.57	11.76	88.19	EKXG201ELL221MM25S
	330	0.20	1430	3220	18.0	35.5	7.5	0.8	565-1440-ND	1.82	13.78	104.00	EKXG201ELL331MMP1S
250	10	0.20	140	350	10.0	20.0	5.0	0.6	565-1441-ND	.46	3.39	24.24	EKXG251ELL100MJ20S
	22	0.20	200	500	10.0	20.0	5.0	0.6	565-1442-ND	.57	4.20	30.00	EKXG251ELL220MJ20S
	33	0.20	320	800	12.5	20.0	5.0	0.6	565-1443-ND	.69	5.12	37.60	EKXG251ELL330MK20S
	47	0.20	390	975	12.5	20.0	5.0	0.6	565-1444-ND	.70	5.23	38.41	EKXG251ELL470MK20S
	68	0.20	520	1300	16.0	20.0	7.5	0.8	565-1445-ND	1.03	7.68	56.40	EKXG251ELL680ML20S
	82	0.20	550	1375	16.0	20.0	7.5	0.8	565-1446-ND	1.01	7.56	56.70	EKXG251ELL820ML20S
	100	0.20	680	1530	16.0	25.0	7.5	0.8	565-1447-ND	1.12	8.40	63.00	EKXG251ELL101ML25S
	150	0.20	860	1935	18.0	25.0	7.5	0.8	565-1448-ND	1.54	11.51	86.36	EKXG251ELL151MM25S
350	6.8	0.24	110	275	10	16	5.0	0.6	565-1449-ND	.46	3.39	24.24	EKXG351ELL6R8MJ16S
	10	0.24	140	350	10	20	5.0	0.6	565-1450-ND	.53	3.88	27.71	EKXG351ELL100MJ20S
	22	0.24	260	650	12.5	20	5.0	0.6	565-1451-ND	.70	5.23	38.41	EKXG351ELL220MK20S
	33	0.24	360	900	16	20	7.5	0.8	565-1452-ND	1.20	9.00	67.50	EKXG351ELL330ML20S
	47	0.24	430	1075	16	20	7.5	0.8	565-1453-ND	1.05	7.89	59.20	EKXG351ELL470ML20S
	68	0.24	560	1400	16	25	7.5	0.8	565-1454-ND	1.36	10.20	76.50	EKXG351ELL680ML25S
	68	0.24	550	1375	18	20	7.5	0.8	565-1455-ND	1.56	11.70	87.75	EKXG351ELL680MM20S
	82	0.24	610	1525	18	25	7.5	0.8	565-1456-ND	1.72	12.90	96.75	EKXG351ELL820MM25S
	100	0.24	700	1575	18	25	7.5	0.8	565-1457-ND	1.89	14.31	108.00	EKXG351ELL101MM25S
	120	0.24	830	1865	18	31.5	7.5	0.8	565-1458-ND	1.96	14.84	112.00	EKXG351ELL121MMN3S
	150	0.24	960	2160	18	35.5	7.5	0.8	565-1459-ND	2.70	20.41	154.00	EKXG351ELL151MMP1S
400	6.8	0.24	110	275	10	16	5.0	0.6	565-1460-ND	.48	3.55	25.35	EKXG401ELL6R8MJ16S
	10	0.24	140	350	10	20	5.0	0.6	565-1461-ND	.57	4.20	30.00	EKXG401ELL100MJ20S
	15	0.24	220	550	12.5	20	5.0	0.6	565-1462-ND	.70	5.23	38.41	EKXG401ELL150MK20S
	22	0.24	260	650	12.5	20	5.0	0.6	565-1463-ND	.82	6.08	44.65	EKXG401ELL220MK20S
	33	0.24	360	900	16	20	7.5	0.8	565-1464-ND	1.01	7.56	56.70	EKXG401ELL330ML20S
	47	0.24	470	1175	16	25	7.5	0.8	565-1465-ND	1.28	9.60	72.00	EKXG401ELL470ML25S
	47	0.24	450	1125	18	20	7.5	0.8	565-1466-ND	1.37	10.30	77.28	EKXG401ELL470MM20S
	68	0.24	585	1465	18	25	7.5	0.8	565-1467-ND	1.76	13.20	99.00	EKXG401ELL680MM25S
	82	0.24	610	1525	18	25	7.5	0.8	565-1468-ND	1.76	13.36	100.80	EKXG401ELL820MM25S
	100	0.24	765	1720	18	31.5	7.5	0.8	565-1469-ND	1.93	14.64	110.50	EKXG401ELL101MMN3S
	120	0.24	865	1945	18	35.5	7.5	0.8	565-1470-ND	2.24	16.96	128.00	EKXG401ELL121MMP1S
	150	0.24	985	2215	18	40	7.5	0.8	565-1471-ND	2.98	22.53	170.00	EKXG401ELL151MM40S
450	6.8	0.24	110	275	10	20	5.0	0.6	565-1472-ND	.59	4.31	30.80	EKXG451ELL6R8MJ20S
	10	0.24	180	450	12.5	20	5.0	0.6	565-1473-ND	.73	5.45	40.02	EKXG451ELL100MK20S
	15	0.24	240	600	12.5	25	5.0	0.6	565-1474-ND	.90	6.72	49.35	EKXG451ELL150MK25S
	22	0.24	290	725	16	20	7.5	0.8	565-1475-ND	1.00	7.52	56.36	EKXG451ELL220ML20S
	33	0.24	390	975	16	25	7.5	0.8	565-1476-ND	1.25	9.39	70.42	EKXG451ELL330ML25S
	33	0.24	380	950	18	20	7.5	0.8	565-1477-ND	1.48	11.10	83.25	EKXG451ELL330MM20S
	47	0.24	480	1200	18	25	7.5	0.8	565-1478-ND	1.72	12.90	96.75	EKXG451ELL470MM25S
	68	0.24	630	1575	18	31.5	7.5	0.8	565-1479-ND	1.89	14.31	108.00	EKXG451ELL680MMN3S
	82	0.24	715	1785	18	35.5	7.5	0.8	565-1480-ND	2.24	16.96	128.00	EKXG451ELL820MMP1S
	100	0.24	800	1800	18	40	7.5	0.8	565-1481-ND	2.56	19.35	146.00	EKXG451ELL101MM40S

UNITED
CHEMI-CON

KY Series Aluminum Electrolytic Capacitors (Radial Lead)

Low Impedance Long Life 105°C

Features: Miniature, Low Impedance, Long Life (4-10K Hours), 105°C Maximum Temperature
Specifications: • **Operating Temperature:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** I=0.01CV or 3μA, whichever is greater, after 2 minutes @ 20°C

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	6.3	10	16	25	35	50
Tan δ (DF)	0.22	0.19	0.16	0.14	0.12	0.10

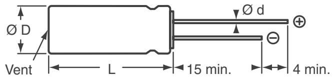

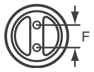

Rated W.V. (VDC)	Cap. (μF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
6.3	150	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1482-ND	.22	1.38	9.30	EKY-6R3ELL151ME11D
	330	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1483-ND	.22	1.38	9.28	EKY-6R3ELL331MF11D
	680	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1484-ND	.29	1.95	13.75	EKY-6R3ELL681MHB5D
	820	865	0.080	0.32	10.0	12.5	5.0	0.6	565-1485-ND	.33	2.45	17.50	EKY-6R3ELL821MJC5S
	1000	840	0.087	0.35	8.0	15.0	3.5	0.6	565-1486-ND	.29	1.95	13.75	EKY-6R3ELL102MH15D
	1200	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1487-ND	.38	2.60	18.35	EKY-6R3ELL122MJ16S
	1200	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1488-ND	.32	2.14	15.11	EKY-6R3ELL122MH20D
	1500	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1489-ND	.36	2.64	18.88	EKY-6R3ELL152MJ20S
	1800	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1490-ND	.48	3.50	25.00	EKY-6R3ELL182MK15S
	2200	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1491-ND	.48	3.50	25.00	EKY-6R3ELL222MJ25S
	2700	1910	0.031	0.12	10.0	30.0	5.0	0.6	565-1492-ND	.48	3.50	25.00	EKY-6R3ELL272MJ30S
	3300	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1493-ND	.52	3.85	27.50	EKY-6R3ELL332MK20S
	3900	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1494-ND	.58	4.32	31.73	EKY-6R3ELL392MK25S
	4700	2650	0.024	0.078	12.5	30.5	5.0	0.6	565-1495-ND	.66	4.91	36.08	EKY-6R3ELL472MK30S
	5600	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1496-ND	.70	5.24	38.47	EKY-6R3ELL562MK35S
	6800	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1497-ND	.74	5.48	40.24	EKY-6R3ELL682MK40S
	10000	3140	0.019	0.049	18.0	25.0	7.5	0.8	565-1498-ND	.98	7.29	53.54	EKY-6R3ELL103MM25S
10	100	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1499-ND	.19	1.17	7.92	EKY-100ELL101ME11D
	220	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1500-ND	.22	1.39	9.37	EKY-100ELL221MF11D
	470	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1501-ND	.24	1.60	11.29	EKY-100ELL471MHB5D
	680	865	0.80	0.32	10.0	12.5	5.0	0.6	565-1502-ND	.30	2.06	14.54	EKY-100ELL681MJC5S
	680	840	0.87	0.35	8.0	15.0	3.5	0.6	565-1503-ND	.27	1.84	12.99	EKY-100ELL681MH15D
	1000	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1504-ND	.36	2.69	19.19	EKY-100ELL102MJ16S
	1000	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1505-ND	.33	2.21	15.56	EKY-100ELL102MH20D
	1200	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1506-ND	.36	2.64	18.88	EKY-100ELL122MJ20S
	1500	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1507-ND	.44	3.22	22.97	EKY-100ELL152MJ25S
	1500	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1508-ND	.47	3.48	24.86	EKY-100ELL152MK15S
	2200	1910	0.031	0.12	10.0	30.0	5.0	0.6	565-1509-ND	.48	3.52	25.17	EKY-100ELL222MJ30S
	2200	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1510-ND	.52	3.84	27.40	EKY-100ELL222MK20S
	2700	2210	0.043	0.11	18.0	15.0	7.5	0.8	565-1511-ND	.73	5.40	39.63	EKY-100ELL272MM15S
	3300	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1512-ND	.57	4.23	31.08	EKY-100ELL332MK25S
	3900	2650	0.024	0.078	12.5	30.0	5.0	0.6	565-1513-ND	.63	4.72	34.63	EKY-100ELL392MK30S
	3900	2530	0.027	0.078	16.0	20.0	7.5	0.8	565-1514-ND	.74	5.52	40.56	EKY-100ELL392ML20S
	4700	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1515-ND	.68	5.08	37.28	EKY-100ELL472MK35S
	5600	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1516-ND	.79	5.88	43.18	EKY-100ELL562MK40S
	5600	2930	0.021	0.060	16.0	25.0	7.5	0.8	565-1517-ND	.94	6.97	51.19	EKY-100ELL562ML25S
	6800	3450	0.017	0.050	16.0	31.5	7.5	0.8	565-1518-ND	1.00	7.47	54.84	EKY-100ELL682MLN3S
	10000	4220	0.014	0.038	18.0	35.5	7.5	0.8	565-1519-ND	1.28	9.59	71.94	EKY-100ELL103MMP1S
16	56	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1520-ND	.18	1.16	7.83	EKY-160ELL560ME11D
	120	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1521-ND	.24	1.51	10.17	EKY-160ELL121MF11D
	330	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1522-ND	.23	1.59	11.22	EKY-160ELL331MHB5D
	470	865	0.080	0.32	10.0	12.5	5.0	0.6	565-1523-ND	.35	2.36	16.62	EKY-160ELL471MJC5S
	470	840	0.087	0.35	8.0	15.0	3.5	0.6	565-1524-ND	.27	1.83	12.92	EKY-160ELL471MJ15D
	680	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1525-ND	.38	2.60	18.35	EKY-160ELL681MJ16S
	680	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1526-ND	.31	2.10	14.84	EKY-160ELL681MH20D
	1000	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1527-ND	.36	2.69	19.19	EKY-160ELL102MJ20S
	1000	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1528-ND	.47	3.44	24.55	EKY-160ELL102MK15S
	1200	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1529-ND	.44	3.22	22.97	EKY-160ELL122MJ25S
	1500	1910	0.031	012	10.0	30.0	5.0	0.6	565-1530-ND	.47	3.44	24.55	EKY-160ELL152MJ30S
	1500	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1531-ND	.49	3.61	25.82	EKY-160ELL152MK20S
	2200	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1532-ND	.61	4.49	32.10	EKY-160ELL222MK25S
	2700	2650	0.024	0.078	12.5	30.0	5.0	0.6	565-1533-ND	.61	4.55	33.44	EKY-160ELL272MK30S
	2700	2530	0.027	0.078	16.0	20.0	7.5	0.8	565-1534-ND	.62	4.59	33.72	EKY-160ELL272ML20S
	3300	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1535-ND	.68	5.08	37.28	EKY-160ELL332MK35S
	3900	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1536-ND	.76	5.64	41.41	EKY-160ELL392MK40S
	3900	2930	0.021	0.060	16.0	25.0	7.5	0.8	565-1537-ND	.82	6.12	44.96	EKY-160ELL392ML25S
	4700	3450	0.017	0.050	16.0	31.5	7.5	0.8	565-1538-ND	.90	6.73	49.41	EKY-160ELL472MLN3S
	4700	3140	0.019	0.049	18.0	25.0	7.5	0.8	565-1539-ND	.97	7.21	52.96	EKY-160ELL472MM25S
	5600	3610	0.015	0.044	16.0	35.5	7.5	0.8	565-1540-ND	1.00	7.45	54.74	EKY-160ELL562MLP1S
	5600	4170	0.015	0.040	18.0	31.5	7.5	0.8	565-1541-ND	1.06	7.95	59.63	EKY-160ELL562MMN3S
	6800	4080	0.013	0.038	16.0	40.0	7.5	0.8	565-1542-ND	1.00	7.52	56.36	EKY-160ELL682ML40S
	8200	4220	0.014	0.038	18.0	35.5	7.5	0.8	565-1543-ND	1.23	9.22	69.12	EKY-160ELL822MMP1S
25	47	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1544-ND	.18	1.16	7.83	EKY-250ELL470ME11D
	100	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1545-ND	.30	1.90	12.77	EKY-250ELL101MF11D
	220	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1546-ND	.24	1.60	11.26	EKY-250ELL221MHB5D
	330	865	0.080	0.32	10.0	12.5	5.0	0.6	565-1547-ND	.35	2.36	16.62	EKY-250ELL331MJC5S
	330	840	0.087	0.35	8.0	15.0	3.5	0.6	565-1548-ND	.27	1.86	13.14	EKY-250ELL331MH15D
	470	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1549-ND	.38	2.55	18.02	EKY-250ELL471MJ16S
	470	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1550-ND	.32	2.14	15.07	EKY-250ELL471MH20D
	680	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1551-ND	.36	2.64	18.88	EKY-250ELL681MJ20S
	680	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1552-ND	.46	3.39	24.24	EKY-250ELL681MK15S
	820	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1553-ND	.42	3.09	22.04	EKY-250ELL821MJ25S
	1000	1910	0.031	0.12	10.0	30.0	5.0	0.6	565-1554-ND	.47	3.48	24.86	EKY-250ELL102MJ30S
	1000	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1555-ND	.52	3.84	27.40	EKY-250ELL102MK20S
	1200	2210	0.043	0.11	18.0	15.0	7.5	0.8	565-1556-ND	.77	5.76	42.30	EKY-250ELL122MM15S
	1500	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1557-ND	.62	4.54	32.41	EKY-250ELL152MK25S
	1800	2650	0.024	0.078	12.5	30.0	5.0	0.6	565-1558-ND	.67	5.00	36.70	EKY-250ELL182MK30S
	1800	2530	0.027	0.078	16.0	20.0	7.5	0.8	565-1559-ND	.64	4.75	34.92	EKY-250ELL182ML20S
	2200	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1560-ND	.70	5.20	38.18	EKY-250ELL222MK35S
	2200	2860	0.026	0.067	18.0	20.0	7.5	0.8	565-1561-ND	1.01	7.51	55.15	EKY-250ELL222MM20S
	2700	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1562-ND	.77	5.76	42.31	EKY-250ELL272MK40S
	2700	2930	0.021	0.060	16.0	25.0	7.5	0.8	565-1563-ND	.81	6.04	44.38	EKY-250ELL272ML25S
	3300	3450	0.017	0.050	16.0	31.5	7.5	0.8	565-1564-ND	.93	6.93	50.89	EKY-250ELL332MLN3S
	3300	3140	0.019	0.049	18.0	25.0	7.5	0.8	565-1565-ND	.94	6.97	51.19	EKY-250ELL332MM25S
	3900	4170	0.015	0.040	18.0	31.5	7.5	0.8	565-1566-ND	1.13	8.50	63.73	EKY-250ELL392MMN3S
	4700	4220	0.014	0.038	18.0	35.5	7.5	0.8	565-1567-ND	1.15	8.65	64.86	EKY-250ELL472MMP1S
	5600	4280	0.012	0.032	18.0	40.0	7.5	0.8	565-1568-ND	1.26	9.48	71.10	EKY-250ELL562MM40S
35	33	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1569-ND	.20	1.29	8.73	EKY-350ELL330ME11D
	56	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1570-ND	.22	1.36	9.19	EKY-350ELL560MF11D
	150	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1571-ND	.23	1.59	11.18	EKY-350ELL151MHB5D
	220	840	0.087	0.35	8.0	15.0	3.5	0.6	565-1572-ND	.35	2.36	16.62	EKY-350ELL221MJC5S

(Continued)

KY Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz) 20°C	Maximum Impedance (Ω / 100kHz) -10°C	Dimensions (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
35	220	865	0.080	0.32	10.0	12.5	5.0	0.6	565-1573-ND	.27	1.85	13.03	EKY-350ELL221MH15D
	270	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1574-ND	.31	2.13	14.99	EKY-350ELL271MH20D
	330	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1575-ND	.36	2.69	19.19	EKY-350ELL331MJ16S
	470	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1576-ND	.41	3.04	21.73	EKY-350ELL471MJ20S
	470	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1577-ND	.46	3.40	24.31	EKY-350ELL471MK15S
	560	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1578-ND	.44	3.26	23.28	EKY-350ELL561MJ25S
	680	1910	0.031	0.12	10.0	30.0	5.0	0.6	565-1579-ND	.48	3.52	25.17	EKY-350ELL681MJ30S
	680	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1580-ND	.48	3.57	25.51	EKY-350ELL681MK20S
	1000	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1581-ND	.61	4.51	33.14	EKY-350ELL102MK25S
	1000	2210	0.043	0.11	18.0	15.0	7.5	0.8	565-1582-ND	.77	5.74	42.15	EKY-350ELL102MM15S
	1200	2650	0.024	0.078	12.5	30.0	5.0	0.6	565-1583-ND	.57	4.23	31.08	EKY-350ELL122MK30S
	1200	2530	0.027	0.078	16.0	20.0	7.5	0.8	565-1584-ND	.69	5.12	37.57	EKY-350ELL122ML20S
	1500	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1585-ND	.70	5.24	38.47	EKY-350ELL152MK35S
	1800	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1586-ND	.77	5.76	42.31	EKY-350ELL182MK40S
	1800	2930	0.021	0.060	16.0	25.0	7.5	0.8	565-1587-ND	.75	5.58	40.99	EKY-350ELL182ML25S
	1800	2860	0.026	0.067	18.0	20.0	7.5	0.8	565-1588-ND	.88	6.54	48.02	EKY-350ELL182MM20S
	2200	3450	0.017	0.050	16.0	31.5	7.5	0.8	565-1589-ND	.94	7.02	51.54	EKY-350ELL222MLN3S
	2200	3140	0.019	0.049	18.0	25.0	7.5	0.8	565-1590-ND	1.03	7.66	56.22	EKY-350ELL222MM25S
	2700	4170	0.015	0.040	18.0	31.5	7.5	0.8	565-1591-ND	1.12	8.42	63.16	EKY-350ELL272MMN3S
	3300	4080	0.013	0.038	16.0	40.0	7.5	0.8	565-1592-ND	1.06	7.86	57.70	EKY-350ELL332ML40S
	3300	4220	0.014	0.038	18.0	35.5	7.5	0.8	565-1593-ND	1.20	9.03	67.70	EKY-350ELL332MMP1S
	3900	4280	0.012	0.032	18.0	40.0	7.5	0.8	565-1594-ND	1.22	9.12	68.43	EKY-350ELL392MM40S
50	2.2	43	2.5	10.0	5.0	11.0	2.0	0.5	565-1595-ND	.20	1.25	8.44	EKY-500ELL2R2ME11D
	3.3	53	2.2	8.8	5.0	11.0	2.0	0.5	565-1596-ND	.20	1.27	8.53	EKY-500ELL3R3ME11D
	4.7	88	1.9	7.6	5.0	11.0	2.0	0.5	565-1597-ND	.20	1.25	8.44	EKY-500ELL4R7ME11D
	10	100	1.5	6.0	5.0	11.0	2.0	0.5	565-1598-ND	.20	1.25	8.39	EKY-500ELL100ME11D
	22	180	0.70	2.8	5.0	11.0	2.0	0.5	565-1599-ND	.19	1.19	8.00	EKY-500ELL220ME11D
	56	295	0.30	1.2	6.3	11.0	2.5	0.5	565-1600-ND	.22	1.40	9.45	EKY-500ELL560MF11D
	100	555	0.17	0.68	8.0	11.5	3.5	0.6	565-1601-ND	.24	1.63	11.48	EKY-500ELL101MHB5D
	120	730	0.12	0.48	8.0	15.0	3.5	0.6	565-1602-ND	.28	1.88	13.26	EKY-500ELL121MH15D
	150	760	0.12	0.48	10.0	12.5	5.0	0.6	565-1603-ND	.35	2.36	16.62	EKY-500ELL151MJC5S
	180	910	0.091	0.36	8.0	20.0	3.5	0.6	565-1604-ND	.32	2.16	15.26	EKY-500ELL181MH20D
	220	1050	0.084	0.34	10.0	16.0	5.0	0.6	565-1605-ND	.40	2.70	19.04	EKY-500ELL221MJ16S
	270	1220	0.060	0.24	10.0	20.0	5.0	0.6	565-1606-ND	.34	2.51	17.96	EKY-500ELL271MJ20S
	270	1260	0.061	0.20	12.5	15.0	5.0	0.6	565-1607-ND	.47	3.48	24.86	EKY-500ELL271MK15S
	330	1440	0.055	0.22	10.0	25.0	5.0	0.6	565-1608-ND	.48	3.57	25.51	EKY-500ELL331MJ25S
	470	1690	0.043	0.17	10.0	30.0	5.0	0.6	565-1609-ND	.50	3.70	26.44	EKY-500ELL471MJ30S
	470	1660	0.045	0.15	12.5	20.0	5.0	0.6	565-1610-ND	.52	3.84	27.40	EKY-500ELL471MK20S
	560	1950	0.034	0.11	12.5	25.0	5.0	0.6	565-1611-ND	.58	4.31	31.66	EKY-500ELL561MK25S
	560	1930	0.054	0.15	18.0	15.0	7.5	0.8	565-1612-ND	.73	5.44	39.95	EKY-500ELL561MM15S
	680	2310	0.030	0.10	12.5	30.0	5.0	0.6	565-1613-ND	.63	4.72	34.63	EKY-500ELL681MK30S
	820	2510	0.025	0.083	12.5	35.0	5.0	0.6	565-1614-ND	.71	5.32	39.05	EKY-500ELL821MK35S
	820	2210	0.034	0.10	16.0	20.0	7.5	0.8	565-1615-ND	.73	5.40	39.63	EKY-500ELL821ML20S
	1000	2920	0.021	0.069	12.5	40.0	5.0	0.6	565-1616-ND	.78	5.84	42.89	EKY-500ELL102MK40S
	1000	2555	0.025	0.075	16.0	25.0	7.5	0.8	565-1617-ND	.83	6.17	45.28	EKY-500ELL102ML25S
	1000	2490	0.036	0.097	18.0	20.0	7.5	0.8	565-1618-ND	.88	6.57	48.22	EKY-500ELL102MM20S
	1200	3010	0.022	0.066	16.0	31.5	7.5	0.8	565-1619-ND	1.00	7.45	54.74	EKY-500ELL122MLN3S
	1200	2740	0.026	0.070	18.0	25.0	7.5	0.8	565-1620-ND	1.01	7.59	56.95	EKY-500ELL122MM25S
	1500	3150	0.019	0.057	16.0	35.5	7.5	0.8	565-1621-ND	1.02	7.62	55.93	EKY-500ELL152MLP1S
	1800	3710	0.016	0.048	16.0	40.0	7.5	0.8	565-1622-ND	1.06	7.93	59.48	EKY-500ELL182ML40S
	2200	3680	0.017	0.046	18.0	35.5	7.5	0.8	565-1623-ND	1.28	9.59	71.93	EKY-500ELL222MMP1S
	2700	3800	0.014	0.038	18.0	40.0	7.5	0.8	565-1624-ND	1.44	10.77	80.74	EKY-500ELL272MM40S

LXY Series Aluminum Electrolytic Capacitors (Radial Lead)

High Reliability Low Impedance 105°C

Features: Miniature, Low Impedance, Long Life (2-8K Hours), Solvent Proof, 105°C Maximum Temperature

Specifications: • **Operating Temperature:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	10	16	25	35	50	63
Tan δ (DF)	0.19	0.16	0.14	0.12	0.10	0.10

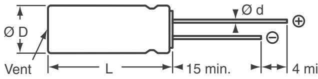

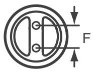

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz) 20°C	Maximum Impedance (Ω / 100kHz) -10°C	Dimensions (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
10	82	163	0.75	1.5	5.0	11.5	2.0	0.5	565-1747-ND	.26	1.76	12.38	ELXY100ELL820MEB5D
	180	273	0.35	0.70	6.3	11.5	2.5	0.5	565-1748-ND	.32	2.15	15.13	ELXY100ELL181MFB5D
	220	390	0.25	0.50	6.3	15.0	2.5	0.5	565-1749-ND	.37	2.54	17.88	ELXY100ELL221MF15D
	330	445	0.17	0.34	8.0	12.0	3.5	0.6	565-1750-ND	.36	2.63	18.75	ELXY100ELL331MH12D
	390	625	0.12	0.24	10.0	12.5	5.0	0.6	565-1751-ND	.40	2.98	21.25	ELXY100ELL391MJC5S
	470	555	0.13	0.26	8.0	15.0	3.5	0.6	565-1752-ND	.43	3.15	22.50	ELXY100ELL471MH15D
	680	825	0.084	0.17	10.0	16.0	5.0	0.6	565-1753-ND	.50	3.68	26.25	ELXY100ELL681MJ16S
	680	740	0.095	0.19	8.0	20.0	3.5	0.6	565-1754-ND	.48	3.50	25.00	ELXY100ELL681MH20D
	1000	1040	0.062	0.13	10.0	20.0	5.0	0.6	565-1755-ND	.57	4.20	30.00	ELXY100ELL102MJ20S
	1200	1260	0.052	0.11	10.0	25.0	5.0	0.6	565-1756-ND	.60	4.48	32.90	ELXY100ELL122MJ25S
	1500	1440	0.044	0.088	10.0	30.0	5.0	0.6	565-1757-ND	.65	4.80	35.25	ELXY100ELL152MJ30S
	1800	1340	0.046	0.092	12.5	20.0	5.0	0.6	565-1758-ND	.77	5.76	42.30	ELXY100ELL182MK20S
	2200	1690	0.034	0.068	12.5	25.0	5.0	0.6	565-1759-ND	.90	6.72	49.35	ELXY100ELL222MK25S
	2700	1950	0.030	0.060	12.5	30.0	5.0	0.6	565-1760-ND	.99	7.36	54.05	ELXY100ELL272MK30S
	3300	2220	0.024	0.048	12.5	35.0	5.0	0.6	565-1761-ND	1.02	7.65	57.38	ELXY100ELL332MK35S
	3300	1630	0.038	0.076	16.0	20.0	7.5	0.8	565-1762-ND	1.12	8.40	63.00	ELXY100ELL332ML20S
	3900	2390	0.022	0.044	12.5	40.0	5.0	0.6	565-1763-ND	1.16	8.70	65.25	ELXY100ELL392MK40S
	3900	2070	0.028	0.056	16.0	25.0	7.5	0.8	565-1764-ND	1.20	9.00	67.50	ELXY100ELL392ML25S
	5600	2350	0.025	0.050	16.0	30.0	7.5	0.8	565-1765-ND	1.40	10.50	78.75	ELXY100ELL562ML30S
	6800	2550	0.022	0.044	16.0	35.0	7.5	0.8	565-1766-ND	1.60	12.00	90.00	ELXY100ELL682ML35S
	8200	2900	0.018	0.036	16.0	40.0	7.5	0.8	565-1767-ND	1.80	13.50	101.25	ELXY100ELL822ML40S
16	56	163	0.75	1.5	5.0	11.5	2.0	0.5	565-1768-ND	.26	1.76	12.38	ELXY160ELL560MEB5D
	120	273	0.35	0.70	6.3	11.5	2.5	0.5	565-1769-ND	.32	2.15	15.13	ELXY160ELL121MFB5D
	180	390	0.25	0.50	6.3	15.0	2.5	0.5	565-1770-ND	.35	2.34	16.50	ELXY160ELL181MF15D
	270	625	0.12	0.24	10.0	12.5	5.0	0.6	565-1771-ND	.40	2.98	21.25	ELXY160ELL271MJC5S
	270	445	0.17	0.34	8.0	12.0	3.5	0.6	565-1772-ND	.36	2.63	18.75	ELXY160ELL271MH12D
	330	555	0.13	0.26	8.0	15.0	3.5	0.6	565-1773-ND	.45	3.33	23.75	ELXY160ELL331MH15D

(Continued)

LXY Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
16	470	825	0.084	0.17	10.0	16.0	5.0	0.6	565-1774-ND	.50	3.68	26.25	ELXY160ELL471MJ16S
	470	740	0.095	0.19	8.0	20.0	3.5	0.6	565-1775-ND	.48	3.50	25.00	ELXY160ELL471MH20D
	680	1040	0.062	0.13	10.0	20.0	5.0	0.6	565-1776-ND	.57	4.20	30.00	ELXY160ELL681MJ20S
	820	1260	0.052	0.11	10.0	25.0	5.0	0.6	565-1777-ND	.60	4.48	32.90	ELXY160ELL821MJ25S
	1200	1440	0.044	0.088	10.0	30.0	5.0	0.6	565-1778-ND	.69	5.12	37.60	ELXY160ELL122MJ30S
	1200	1340	0.046	0.092	12.5	20.0	5.0	0.6	565-1779-ND	.77	5.76	42.30	ELXY160ELL122MK20S
	1500	1690	0.034	0.068	12.5	25.0	5.0	0.6	565-1780-ND	.84	6.27	46.06	ELXY160ELL152MK25S
	2200	1950	0.030	0.060	12.5	30.0	5.0	0.6	565-1781-ND	.99	7.36	54.05	ELXY160ELL222MK30S
	2200	1630	0.038	0.076	16.0	20.0	7.5	0.8	565-1782-ND	1.12	8.40	63.00	ELXY160ELL222ML20S
	2700	2220	0.024	0.048	12.5	35.0	5.0	0.6	565-1783-ND	1.02	7.65	57.38	ELXY160ELL272MK35S
	2700	2070	0.028	0.056	16.0	25.0	7.5	0.8	565-1784-ND	1.20	9.00	67.50	ELXY160ELL272ML25S
	3300	2390	0.022	0.044	12.5	40.0	5.0	0.6	565-1785-ND	1.18	8.85	66.38	ELXY160ELL332MK40S
	3900	2350	0.025	0.050	16.0	30.0	7.5	0.8	565-1786-ND	1.36	10.20	76.50	ELXY160ELL392ML30S
	4700	2550	0.022	0.044	16.0	35.0	7.5	0.8	565-1787-ND	1.60	12.00	90.00	ELXY160ELL472ML35S
	5600	2900	0.018	0.036	16.0	40.0	7.5	0.8	565-1788-ND	1.80	13.50	101.25	ELXY160ELL562ML40S
25	39	163	0.75	1.5	5.0	11.5	2.0	0.5	565-1789-ND	.29	1.95	13.75	ELXY250ELL390MEB5D
	82	273	0.35	0.70	6.3	11.5	2.5	0.5	565-1790-ND	.32	2.15	15.13	ELXY250ELL820MFB5D
	120	390	0.25	0.50	6.3	15.0	2.5	0.5	565-1791-ND	.37	2.54	17.88	ELXY250ELL121MF15D
	150	445	0.17	0.34	8.0	12.0	3.5	0.6	565-1792-ND	.36	2.63	18.75	ELXY250ELL151MH12D
	180	625	0.12	0.24	10.0	12.5	5.0	0.6	565-1793-ND	.40	2.98	21.25	ELXY250ELL181MJC5S
	220	555	0.13	0.26	8.0	15.0	3.5	0.6	565-1794-ND	.43	3.15	22.50	ELXY250ELL221MH15D
	330	825	0.084	0.17	10.0	16.0	5.0	0.6	565-1795-ND	.50	3.68	26.25	ELXY250ELL331MJ16S
	330	740	0.095	0.19	8.0	20.0	3.5	0.6	565-1796-ND	.48	3.50	25.00	ELXY250ELL331MH20D
	470	1040	0.062	0.13	10.0	20.0	5.0	0.6	565-1797-ND	.57	4.20	30.00	ELXY250ELL471MJ20S
	560	1260	0.052	0.11	10.0	25.0	5.0	0.6	565-1798-ND	.60	4.48	32.90	ELXY250ELL561MJ25S
	820	1440	0.044	0.088	10.0	30.0	5.0	0.6	565-1799-ND	.69	5.12	37.60	ELXY250ELL821MJ30S
	820	1340	0.046	0.092	12.5	20.0	5.0	0.6	565-1800-ND	.77	5.76	42.30	ELXY250ELL821MK20S
	1000	1690	0.034	0.068	12.5	25.0	5.0	0.6	565-1801-ND	.86	6.40	47.00	ELXY250ELL102MK25S
	1500	1950	0.030	0.060	12.5	30.0	5.0	0.6	565-1802-ND	.99	7.36	54.05	ELXY250ELL152MK30S
	1500	1630	0.038	0.076	16.0	20.0	7.5	0.8	565-1803-ND	1.12	8.40	63.00	ELXY250ELL152ML20S
	1800	2220	0.024	0.048	12.5	35.0	5.0	0.6	565-1804-ND	1.02	7.65	57.38	ELXY250ELL182MK35S
	1800	2070	0.028	0.056	16.0	25.0	7.5	0.8	565-1805-ND	1.20	9.00	67.50	ELXY250ELL182ML25S
	2200	2390	0.022	0.044	12.5	40.0	5.0	0.6	565-1806-ND	1.16	8.70	65.25	ELXY250ELL222MK40S
	2700	2350	0.025	0.050	16.0	30.0	7.5	0.8	565-1807-ND	1.36	10.20	76.50	ELXY250ELL272ML30S
	3300	2550	0.022	0.044	16.0	35.0	7.5	0.8	565-1808-ND	1.60	12.00	90.00	ELXY250ELL332ML35S
	3900	2900	0.018	0.036	16.0	40.0	7.5	0.8	565-1809-ND	1.80	13.50	101.25	ELXY250ELL392ML40S
35	27	163	0.75	1.5	5.0	11.5	2.0	0.5	565-1812-ND	.30	2.07	14.58	ELXY350ELL270MEB5D
	56	273	0.35	0.70	6.3	11.5	2.5	0.5	565-1810-ND	.32	2.18	15.40	ELXY350ELL560MFB5D
	82	390	0.25	0.50	6.3	15.0	2.5	0.5	565-1813-ND	.35	2.34	16.50	ELXY350ELL820MF15D
	120	445	0.17	0.34	8.0	12.0	3.5	0.6	565-1814-ND	.36	2.63	18.75	ELXY350ELL121MH12D
	120	625	0.12	0.24	10.0	12.5	5.0	0.6	565-1811-ND	.25	1.72	12.10	ELXY350ELL121MJC5S
	180	555	0.13	0.26	8.0	15.0	3.5	0.6	565-1815-ND	.43	3.15	22.50	ELXY350ELL181MH15D
	220	825	0.084	0.17	10.0	16.0	5.0	0.6	565-1816-ND	.50	3.68	26.25	ELXY350ELL221MJ16S
	220	740	0.095	0.19	8.0	20.0	3.5	0.6	565-1817-ND	.48	3.50	25.00	ELXY350ELL221MH20D
	330	1040	0.062	0.13	10.0	20.0	5.0	0.6	565-1818-ND	.57	4.20	30.00	ELXY350ELL331MJ20S
	390	1260	0.052	0.11	10.0	25.0	5.0	0.6	565-1819-ND	.60	4.48	32.90	ELXY350ELL391MJ25S
	560	1440	0.044	0.088	10.0	30.0	5.0	0.6	565-1820-ND	.69	5.12	37.60	ELXY350ELL561MJ30S
	560	1340	0.046	0.092	12.5	20.0	5.0	0.6	565-1821-ND	.77	5.76	42.30	ELXY350ELL561MK20S
	680	1690	0.034	0.068	12.5	25.0	5.0	0.6	565-1822-ND	.86	6.40	47.00	ELXY350ELL681MK25S
	1000	1950	0.030	0.060	12.5	30.0	5.0	0.6	565-1823-ND	.83	6.18	45.36	ELXY350ELL102MK30S
	1000	1630	0.038	0.076	16.0	20.0	7.5	0.8	565-1824-ND	1.12	8.40	63.00	ELXY350ELL102ML20S
	1200	2220	0.024	0.048	12.5	35.0	5.0	0.6	565-1825-ND	1.02	7.65	57.38	ELXY350ELL122MK35S
	1200	2070	0.028	0.056	16.0	25.0	7.5	0.8	565-1826-ND	1.20	9.00	67.50	ELXY350ELL122ML25S
	1500	2390	0.022	0.044	12.5	40.0	5.0	0.6	565-1827-ND	1.16	8.70	65.25	ELXY350ELL152MK40S
	1800	2350	0.025	0.050	16.0	30.0	7.5	0.8	565-1828-ND	1.36	10.20	76.50	ELXY350ELL182ML30S
	2200	2550	0.022	0.044	16.0	35.0	7.5	0.8	565-1829-ND	1.60	12.00	90.00	ELXY350ELL222ML35S
	2700	2900	0.018	0.036	16.0	40.0	7.5	0.8	565-1830-ND	1.80	13.50	101.25	ELXY350ELL272ML40S
50	18	129	1.2	2.4	5.0	11.5	2.0	0.5	565-1831-ND	.26	1.76	12.38	ELXY500ELL180MEB5D
	39	219	0.54	1.1	6.3	11.5	2.5	0.5	565-1832-ND	.32	2.15	15.13	ELXY500ELL390MFB5D
	56	310	0.34	0.68	6.3	15.0	2.5	0.5	565-1833-ND	.37	2.54	17.88	ELXY500ELL560MF15D
	68	340	0.30	0.60	8.0	12.0	3.5	0.6	565-1834-ND	.36	2.63	18.75	ELXY500ELL680MH12D
	82	480	0.20	0.40	10.0	12.5	5.0	0.6	565-1835-ND	.40	2.98	21.25	ELXY500ELL820MJC5S
	82	470	0.20	0.40	8.0	15.0	3.5	0.6	565-1836-ND	.43	3.15	22.50	ELXY500ELL820MH15D
	120	755	0.13	0.26	10.0	16.0	5.0	0.6	565-1837-ND	.50	3.68	26.25	ELXY500ELL121MJ16S
	120	610	0.14	0.28	8.0	20.0	3.5	0.6	565-1838-ND	.52	3.85	27.50	ELXY500ELL121MH20D
	180	945	0.088	0.18	10.0	20.0	5.0	0.6	565-1839-ND	.57	4.20	30.00	ELXY500ELL181MJ20S
	220	1150	0.073	0.15	10.0	25.0	5.0	0.6	565-1840-ND	.60	4.48	32.90	ELXY500ELL221MJ25S
	330	1260	0.054	0.11	10.0	30.0	5.0	0.6	565-1841-ND	.69	5.12	37.60	ELXY500ELL331MJ30S
	330	1190	0.059	0.12	12.5	20.0	5.0	0.6	565-1842-ND	.58	4.32	31.73	ELXY500ELL331MK20S
	470	1490	0.044	0.088	12.5	25.0	5.0	0.6	565-1843-ND	.86	6.40	47.00	ELXY500ELL471MK25S
	560	1720	0.039	0.078	12.5	30.0	5.0	0.6	565-1844-ND	.99	7.36	54.05	ELXY500ELL561MK30S
	680	1890	0.033	0.066	12.5	35.0	5.0	0.6	565-1845-ND	1.02	7.65	57.38	ELXY500ELL681MK35S
	680	1420	0.050	0.10	16.0	20.0	7.5	0.8	565-1846-ND	1.12	8.40	63.00	ELXY500ELL681ML20S
	820	2030	0.029	0.058	12.5	40.0	5.0	0.6	565-1847-ND	1.16	8.70	65.25	ELXY500ELL821MK40S
	820	1880	0.034	0.068	16.0	25.0	7.5	0.8	565-1848-ND	1.20	9.00	67.50	ELXY500ELL821ML25S
	1000	2150	0.030	0.060	16.0	30.0	7.5	0.8	565-1849-ND	1.12	8.40	63.00	ELXY500ELL102ML30S
	1200	2320	0.027	0.054	16.0	35.0	7.5	0.8	565-1850-ND	1.60	12.00	90.00	ELXY500ELL122ML35S
	1500	2540	0.024	0.048	16.0	40.0	7.5	0.8	565-1851-ND	1.76	13.20	99.00	ELXY500ELL152ML40S
63	10	103	1.9	4.8	5.0	11.5	2.0	0.5	565-1852-ND	.26	1.76	12.38	ELXY630ELL100MEB5D
	18	161	1.0	2.5	6.3	11.5	2.5	0.5	565-1853-ND	.32	2.15	15.13	ELXY630ELL180MFB5D
	33	233	0.61	1.6	6.3	15.0	2.5	0.5	565-1854-ND	.35	2.34	16.50	ELXY630ELL330MF15D
	47	274	0.47	1.2	8.0	12.0	3.5	0.6	565-1855-ND	.36	2.63	18.75	ELXY630ELL470MH12D
	56	418	0.27	0.68	10.0	12.5	5.0	0.6	565-1856-ND	.40	2.98	21.25	ELXY630ELL560MJC5S
	68	525	0.21	0.53	10.0	16.0	5.0	0.6	565-1857-ND	.50	3.68	26.25	ELXY630ELL680MJ16S
	68	360	034	0.85	8.0	15.0	3.5	0.6	565-1858-ND	.43	3.15	22.50	ELXY630ELL680MH15D
	82	500	0.21	0.53	8.0	20.0	3.5	0.6	565-1859-ND	.45	3.33	23.75	ELXY630ELL820MH20D
	120	650	0.16	0.40	10.0	20.0	5.0	0.6	565-1860-ND	.57	4.20	30.00	ELXY630ELL121MJ20S
	150	783	0.13	0.33	10.0	25.0	5.0	0.6	565-1861-ND	.57	4.17	29.75	ELXY630ELL151MJ25S
	180	960	0.10	0.25	10.0	30.0	5.0	0.6	565-1862-ND	.65	4.80	35.25	ELXY630ELL181MJ30S
	220	870	0.11	0.28	12.5	20.0	5.0	0.6	565-1863-ND	.73	5.44	39.95	ELXY630ELL221MK20S
	270	1150	0.074	0.19	12.5	25.0	5.0	0.6	565-1864-ND	.61	4.52	33.21	ELXY630ELL271MK25S
	330	1100	0.085	0.22	16.0	20.0	7.5	0.8	565-1865-ND	1.12	8.40	63.00	ELXY630ELL331ML20S
	390	1280	0.068	0.17	12.5	30.0	5.0	0.6	565-1866-ND	.99	7.36	54.05	ELXY630ELL391MK30S
	470	1390	0.063	0.16	12.5	35.0	5.0	0.6	565-1867-ND	1.02	7.65	57.38	ELXY630ELL471MK35S
	470	1480	0.055	0.14	16.0	25.0	7.5	0.8	565-1868-ND	1.20	9.00	67.50	ELXY630ELL471ML25S
	560	1530	0.051	0.13	12.5	40.0	5.0	0.6	565-1869-ND	1.16	8.70	65.25	ELXY630ELL561MK40S
	680	1720	0.046	0.12	16.0	30.0	7.5	0.8	565-1870-ND	1.32	9.90	74.25	ELXY630ELL681ML30S
	820	1910	0.040	0.10	16.0	35.0	7.5	0.8	565-1871-ND	1.60	12.00	90.00	ELXY630ELL821ML35S
	1000	2070	0.036	0.09	16.0	40.0	7.5	0.8	565-1872-ND	1.76	13.20	99.00	ELXY630ELL102ML40S

UNITED CHEMI-CON

KZE Series Aluminum Electrolytic Capacitors (Radial Lead)

Very Low Impedance 105°C

RoHS COMPLIANT

Features: • Miniature • Very Low Impedance • 105°C Maximum Temperature (1000 ~ 5000 Hour Life)
Specifications: • **Operating Temperature:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	6.3	10	16	25	35	50	63	100
Tan δ (DF)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

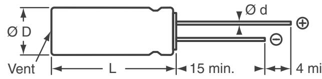

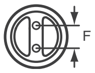

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions — (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
6.3	150	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1625-ND	.19	1.17	7.92	EKZE6R3ELL151ME11D
	220	380	0.15	0.45	8.0	7.0	3.5	0.45	565-1626-ND	.26	1.78	12.54	EKZE6R3ELL221MH07D
	330	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1627-ND	.22	1.38	9.28	EKZE6R3ELL331MF11D
	560	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1628-ND	.23	1.59	11.18	EKZE6R3ELL561MHB5D
	820	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1629-ND	.26	1.76	12.42	EKZE6R3ELL821MH15D
	1000	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1630-ND	.34	2.31	16.28	EKZE6R3ELL102MJC5S
	1200	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1631-ND	.38	2.60	18.35	EKZE6R3ELL122MJ16S
	1200	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1632-ND	.32	2.14	15.11	EKZE6R3ELL122MH20D
	1500	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1633-ND	.35	2.56	18.27	EKZE6R3ELL152MJ20S
	2200	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1634-ND	.47	3.44	24.55	EKZE6R3ELL222MJ25S
	3300	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1635-ND	.49	3.61	25.82	EKZE6R3ELL332MK20S
	3900	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1636-ND	.60	4.45	31.79	EKZE6R3ELL392MK25S
	4700	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1637-ND	.63	4.72	34.63	EKZE6R3ELL472MK30S
	5600	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1638-ND	.65	4.87	35.79	EKZE6R3ELL562MK35S
	5600	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1639-ND	.67	4.96	36.40	EKZE6R3ELL562ML20S
	6800	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1640-ND	.77	5.72	42.02	EKZE6R3ELL682ML25S
10	100	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1641-ND	.19	1.18	7.96	EKZE100ELL101MELLD
	220	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1642-ND	.22	1.38	9.32	EKZE100ELL221MFLLD
	470	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1643-ND	.24	1.60	11.29	EKZE100ELL471MHB5D
	680	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1644-ND	.33	2.26	15.94	EKZE100ELL681MJC5S
	680	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1645-ND	.26	1.77	12.46	EKZE100ELL681MH15D
	1000	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1646-ND	.38	2.60	18.35	EKZE100ELL102MJ16S
	1000	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1647-ND	.33	2.21	15.56	EKZE100ELL102MH20D
	1200	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1648-ND	.35	2.56	18.27	EKZE100ELL122MJ20S
	1500	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1649-ND	.42	3.13	22.35	EKZE100ELL152MJ25S
	2200	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1650-ND	.53	3.92	28.02	EKZE100ELL222MK20S
	3300	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1651-ND	.57	4.23	31.08	EKZE100ELL332MK25S
	3900	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1652-ND	.62	4.63	34.02	EKZE100ELL392MK30S
	3900	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1653-ND	.67	4.96	36.40	EKZE100ELL392ML20S
	4700	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1654-ND	.71	5.28	38.76	EKZE100ELL472MK35S
	5600	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1655-ND	.81	6.00	44.09	EKZE100ELL562ML25S
16	56	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1656-ND	.18	1.16	7.83	EKZE160ELL560MELLD
	68	300	0.24	0.72	6.3	7.0	2.5	0.45	565-1657-ND	.24	1.64	11.56	EKZE160ELL680MF07D
	120	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1658-ND	.21	1.35	9.11	EKZE160ELL121MFLLD
	330	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1659-ND	.23	1.59	11.22	EKZE160ELL331MHB5D
	470	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1660-ND	.33	2.26	15.94	EKZE160ELL471MJC5S
	470	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1661-ND	.27	1.83	12.88	EKZE160ELL471MH15D
	680	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1662-ND	.37	2.51	17.67	EKZE160ELL681MJ16S
	680	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1663-ND	.31	2.10	14.84	EKZE160ELL681MH20D
	1000	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1664-ND	.35	2.60	18.58	EKZE160ELL102MJ20S
	1200	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1665-ND	.45	3.35	23.93	EKZE160ELL122MJ25S
	1500	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1666-ND	.49	3.61	25.82	EKZE160ELL152MK20S
	2200	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1667-ND	.63	4.67	34.31	EKZE160ELL222MK25S
	2700	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1668-ND	.61	4.55	33.44	EKZE160ELL272MK30S
	2700	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1669-ND	.67	4.96	36.40	EKZE160ELL272ML20S
	3300	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1670-ND	.67	4.99	36.66	EKZE160ELL332MK35S
	3900	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1671-ND	.78	5.84	42.89	EKZE160ELL392ML25S
25	47	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1672-ND	.18	1.16	7.83	EKZE250ELL470ME11D
	100	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1673-ND	.21	1.35	9.11	EKZE250ELL101MF11D
	220	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1674-ND	.27	1.83	12.92	EKZE250ELL221MHB5D
	330	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1675-ND	.35	2.36	16.62	EKZE250ELL331MJC5S
	330	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1676-ND	.26	1.78	12.58	EKZE250ELL331MH15D
	470	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1677-ND	.36	2.45	17.30	EKZE250ELL471MJ16S
	470	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1678-ND	.31	2.13	15.03	EKZE250ELL471MH20D
	680	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1679-ND	.35	2.60	18.58	EKZE250ELL681MJ20S
	820	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1680-ND	.45	3.35	23.93	EKZE250ELL821MJ25S
	1000	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1681-ND	.48	3.52	25.17	EKZE250ELL102MK20S
	1500	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1682-ND	.62	4.54	32.41	EKZE250ELL152MK25S
	1800	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1683-ND	.61	4.55	33.44	EKZE250ELL182MK30S
	1800	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1684-ND	.67	4.99	36.61	EKZE250ELL182ML20S
	2200	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1685-ND	.68	5.08	37.28	EKZE250ELL222MK35S
	2700	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1686-ND	.79	5.88	43.18	EKZE250ELL272ML25S
35	33	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1687-ND	.18	1.16	7.83	EKZE350ELL330ME11D
	56	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1688-ND	.21	1.36	9.15	EKZE350ELL560MF11D
	150	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1689-ND	.24	1.61	11.33	EKZE350ELL151MHB5D
	220	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1690-ND	.35	2.36	16.62	EKZE350ELL221MJC5S
	220	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1691-ND	.27	1.85	13.03	EKZE350ELL221MH15D
	270	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1692-ND	.31	2.13	14.99	EKZE350ELL271MH20D
	330	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1693-ND	.38	2.55	18.02	EKZE350ELL331MJ16S
	470	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1694-ND	.38	2.78	19.85	EKZE350ELL471MJ20S
	560	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1695-ND	.45	3.35	23.93	EKZE350ELL561MJ25S
	680	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1696-ND	.48	3.57	25.51	EKZE350ELL681MK20S
	1000	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1697-ND	.57	4.23	31.08	EKZE350ELL102MK25S
	1200	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1698-ND	.62	4.63	34.02	EKZE350ELL122MK30S
	1200	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1699-ND	.66	4.91	36.08	EKZE350ELL122ML20S
	1500	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1700-ND	.69	5.15	37.86	EKZE350ELL152MK35S
	1800	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1701-ND	.80	5.92	43.51	EKZE350ELL182ML25S
50	10	210	0.50	1.5	5.0	7.0	2.0	0.5	565-1702-ND	.27	1.71	11.49	EKZE500ELL100ME07D
	22	238	0.34	1.18	5.0	11.0	2.0	0.5	565-1703-ND	.19	1.19	8.00	EKZE500ELL220ME11D
	56	385	0.14	0.50	6.3	11.0	2.5	0.5	565-1704-ND	.22	1.40	9.45	EKZE500ELL560MF11D
	100	724	0.074	0.22	8.0	11.5	3.5	0.6	565-1705-ND	.24	1.61	11.33	EKZE500ELL101MHB5D
	120	950	0.061	0.18	8.0	15	3.5	0.6	565-1706-ND	.28	1.88	13.26	EKZE500ELL121MH15D
	150	979	0.061	0.18	10.0	12.5	5.0	0.6	565-1707-ND	.35	2.36	16.62	EKZE500ELL151MJC5S
	180	1190	0.046	0.14	8.0	20.0	3.5	0.6	565-1708-ND	.32	2.16	15.22	EKZE500ELL181MH20D
	220	1370	0.042	0.12	10.0	16.0	5.0	0.6	565-1709-ND	.38	2.60	18.35	EKZE500ELL221MJ16S
	270	1580	0.030	0.090	10.0	20.0	5.0	0.6	565-1710-ND	.37	2.73	19.50	EKZE500ELL271MJ20S
	330	1870	0.028	0.085	10.0	25.0	5.0	0.6	565-1711-ND	.47	3.44	24.55	EKZE500ELL331MJ25S
	470	2050	0.027	0.068	12.5	20.0	5.0	0.6	565-1712-ND	.51	3.74	26.75	EKZE500ELL471MK20S
	560	2410	0.023	0.059	12.5	25.0	5.0	0.6	565-1713-ND	.57	4.23	31.06	EKZE500ELL561MK25S
	680	2860	0.021	0.052	12.5	30.0	5.0	0.6	565-1714-ND	.63	4.67	34.31	EKZE500ELL681MK30S
	820	2960	0.019	0.051	12.5	35.0	5.0	0.6	565-1715-ND	.70	5.24	38.47	EKZE500ELL821MK35S
	820	2730	0.023	0.059	16.0	20.0	7.5	0.8	565-1716-ND	.72	5.36	39.34	EKZE500ELL821ML20S
	1000	3010	0.021	0.056	16.0	25.0	7.5	0.8	565-1717-ND	.82	6.08	44.67	EKZE500ELL102ML25S
63	15	165	0.88	3.5	5.0	11.0	2.0	0.5	565-1718-ND	.19	1.20	8.09	EKZE630ELL150ME11D
	33	265	0.35	1.4	6.3	11.0	2.5	0.5	565-1719-ND	.22	1.41	9.49	EKZE630ELL330MF11D

(Continued)

KZE Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions — (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
63	56	500	0.22	0.88	8.0	11.5	3.5	0.6	565-1720-ND	.24	1.61	11.33	EKZE630ELL560MHB5D
	82	690	0.11	0.44	10.0	12.5	5.0	0.6	565-1721-ND	.38	2.60	18.35	EKZE630ELL820MJC5S
	82	665	0.16	0.64	8.0	15.0	3.5	0.6	565-1722-ND	.28	1.87	13.18	EKZE630ELL820MH15D
	120	950	0.076	0.31	10.0	16.0	5.0	0.6	565-1723-ND	.38	2.60	18.35	EKZE630ELL121MJ16S
	180	1150	0.072	0.29	12.5	16.0	5.0	0.6	565-1724-ND	.50	3.66	26.13	EKZE630ELL181MK16S
	220	1350	0.046	0.19	10.0	25.0	5.0	0.6	565-1725-ND	.43	3.17	22.66	EKZE630ELL221MJ25S
	390	1900	0.031	0.093	12.5	25.0	5.0	0.6	565-1726-ND	.58	4.31	31.66	EKZE630ELL391MK25S
	470	2300	0.028	0.084	12.5	30.0	5.0	0.6	565-1727-ND	.63	4.72	34.63	EKZE630ELL471MK30S
	680	2800	0.021	0.063	12.5	40.0	5.0	0.6	565-1728-ND	.79	5.86	43.06	EKZE630ELL681MK40S
	1000	2900	0.019	0.057	16.0	35.5	7.5	0.8	565-1729-ND	1.04	7.73	56.80	EKZE630ELL102MLP1S
	1500	3400	0.018	0.054	18.0	35.5	7.5	0.8	565-1730-ND	1.27	9.54	71.52	EKZE630ELL152MMP1S
	1800	3500	0.017	0.051	18.0	40.0	7.5	0.8	565-1731-ND	1.41	10.54	79.04	EKZE630ELL182MM40S
100	27	355	0.36	1.4	8.0	11.5	3.5	0.6	565-1732-ND	.24	1.62	11.41	EKZE101ELL270MHB5D
	39	450	0.25	1.0	8.0	15.0	3.5	0.6	565-1733-ND	.27	1.85	13.06	EKZE101ELL390MH15D
	47	480	0.17	0.66	10.0	12.5	5.0	0.6	565-1734-ND	.35	2.36	16.62	EKZE101ELL470MJC5S
	68	600	0.11	0.47	10.0	16.0	5.0	0.6	565-1735-ND	.40	2.70	19.04	EKZE101ELL680MJ16S
	100	750	0.11	0.34	12.5	16.0	5.0	0.6	565-1736-ND	.50	3.70	26.44	EKZE101ELL101MK16S
	120	900	0.069	0.28	10.0	25.0	5.0	0.6	565-1737-ND	.45	3.30	23.58	EKZE101ELL121MJ25S
	150	1100	0.062	0.18	12.5	20.0	5.0	0.6	565-1738-ND	.55	4.05	28.94	EKZE101ELL151MK20S
	220	1250	0.047	0.14	12.5	25.0	5.0	0.6	565-1739-ND	.63	4.72	34.63	EKZE101ELL221MK25S
	270	1500	0.042	0.13	12.5	30.0	5.0	0.6	565-1740-ND	.66	4.91	36.08	EKZE101ELL271MK30S
	330	1650	0.036	0.11	12.5	35.0	5.0	0.6	565-1741-ND	.74	5.52	40.54	EKZE101ELL331MK35S
	330	1500	0.045	0.14	18.0	20.0	7.5	0.8	565-1742-ND	.99	7.33	53.83	EKZE101ELL331MM20S
	470	1750	0.036	0.11	18.0	25.0	7.5	0.8	565-1743-ND	1.07	8.05	60.35	EKZE101ELL471MM25S
	560	2000	0.029	0.086	16.0	35.5	7.5	0.8	565-1744-ND	1.39	10.46	78.46	EKZE101ELL561MLP1S
	680	2200	0.027	0.081	18.0	35.5	7.5	0.8	565-1745-ND	1.49	11.21	84.06	EKZE101ELL681MMP1S
	820	2700	0.026	0.077	18.0	40.0	7.5	0.8	565-1746-ND	1.53	11.48	86.12	EKZE101ELL821MM40S

LXZ Series Aluminum Electrolytic Capacitors (Radial Lead)

High Reliability Lowest Impedance 105°C

Features: • Miniature • Lowest Impedance • Long Life (2-8K Hours) • Solvent Proof, 105°C Maximum Temperature

Specifications: • **Operating Temperature:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	6.3	10	16	25	35	50	63
Tan δ (DF)	0.22	0.19	0.16	0.14	0.12	0.10	0.08

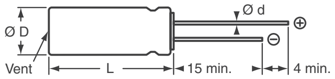

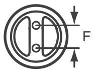

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions — mm				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
6.3	150	175	0.50	1.0	5.0	11.5	2.0	0.5	565-1873-ND	.29	1.95	13.75	ELXZ6R3ELL151MEB5D
	330	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1874-ND	.29	1.95	13.75	ELXZ6R3ELL331MFB5D
	470	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1875-ND	.33	2.45	17.50	ELXZ6R3ELL471MF15D
	680	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1876-ND	.35	2.34	16.50	ELXZ6R3ELL681MH12D
	820	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1877-ND	.33	2.45	17.50	ELXZ6R3ELL821MJC5S
	1000	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1878-ND	.38	2.80	20.00	ELXZ6R3ELL102MH15D
	1200	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1879-ND	.38	2.80	20.00	ELXZ6R3ELL122MJ16S
	1200	810	0080	0.16	8.0	20.0	3.5	0.6	565-1880-ND	.43	3.15	22.50	ELXZ6R3ELL122MH20D
	1500	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1881-ND	.48	3.50	25.00	ELXZ6R3ELL152MJ20S
	2200	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1882-ND	.57	4.20	30.00	ELXZ6R3ELL222MJ25S
	2700	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1883-ND	.56	4.16	30.55	ELXZ6R3ELL272MJ30S
	3300	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1884-ND	.65	4.80	35.25	ELXZ6R3ELL332MK20S
	3900	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1885-ND	.73	5.44	39.95	ELXZ6R3ELL392MK25S
	4700	2310	0.025	0.050	12.5	30.0	5.0	0.6	565-1886-ND	.86	6.40	47.00	ELXZ6R3ELL472MK30S
	5600	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1887-ND	.95	7.04	51.70	ELXZ6R3ELL562MK35S
	5600	2210	0.029	0.058	16.0	20.0	7.5	0.8	565-1888-ND	.95	7.04	51.70	ELXZ6R3ELL562ML20S
	6800	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1889-ND	1.00	7.50	56.25	ELXZ6R3ELL682MK40S
	6800	2560	0.022	0.044	16.0	25.0	7.5	0.8	565-1890-ND	1.04	7.80	58.50	ELXZ6R3ELL682ML25S
	6800	2490	0.028	0.056	18.0	20.0	7.5	0.8	565-1891-ND	1.44	10.80	81.00	ELXZ6R3ELL682MM20S
	8200	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1892-ND	1.08	8.10	60.75	ELXZ6R3ELL822ML30S
	10000	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1893-ND	1.32	9.90	74.25	ELXZ6R3ELL103ML35S
	10000	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1894-ND	1.36	10.20	76.50	ELXZ6R3ELL103MM25S
	12000	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-1895-ND	1.44	10.80	81.00	ELXZ6R3ELL123ML40S
	12000	3330	0.018	0.036	18.0	30.0	7.5	0.8	565-1896-ND	1.44	10.80	81.00	ELXZ6R3ELL123MM30S
	15000	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-1897-ND	1.72	12.90	96.75	ELXZ6R3ELL153MM35S
	18000	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-1898-ND	1.79	13.52	102.00	ELXZ6R3ELL183MM40S
10	100	175	0.50	1.0	5.0	11.5	2.0	0.5	565-1899-ND	.23	1.56	11.00	ELXZ100ELL101MEB5D
	220	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1900-ND	.29	1.95	13.75	ELXZ100ELL221MFB5D
	330	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1901-ND	.29	1.95	13.75	ELXZ100ELL331MF15D
	470	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1902-ND	.48	3.24	22.83	ELXZ100ELL471MH12D
	680	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1903-ND	.33	2.45	17.50	ELXZ100ELL681MJC5S
	680	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1904-ND	.38	2.80	20.00	ELXZ100ELL681MH15D
	1000	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1905-ND	.43	3.15	22.50	ELXZ100ELL102MJ16S
	1000	810	0.080	0.16	8.0	20.0	3.5	0.6	565-1906-ND	.43	3.15	22.50	ELXZ100ELL102MH20D
	1200	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1907-ND	.48	3.50	25.00	ELXZ100ELL122MJ20S
	1500	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1908-ND	.57	4.20	30.00	ELXZ100ELL152MJ25S
	1800	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1909-ND	.56	4.16	30.55	ELXZ100ELL182MJ30S
	2200	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1910-ND	.65	4.80	35.25	ELXZ100ELL222MK20S
	3300	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1911-ND	.77	5.76	42.30	ELXZ100ELL332MK25S
	3900	2310	0.025	0.058	12.5	30.0	5.0	0.6	565-1912-ND	.86	6.40	47.00	ELXZ100ELL392MK30S
	3900	2210	0.029	0.058	16.0	20.0	7.5	0.8	565-1913-ND	.95	7.04	51.70	ELXZ100ELL392ML20S
	4700	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1914-ND	.95	7.04	51.70	ELXZ100ELL472MK35S
	5600	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1915-ND	1.00	7.50	56.25	ELXZ100ELL562MK40S
	5600	2560	0.022	0.044	16.0	25.0	7.5	0.8	565-1916-ND	1.08	8.10	60.75	ELXZ100ELL562ML25S
	5600	2490	0.028	0.056	18.0	20.0	7.5	0.8	565-1917-ND	1.16	8.70	65.25	ELXZ100ELL562MM20S
	6800	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1918-ND	1.20	9.00	67.50	ELXZ100ELL682ML30S
	6800	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1919-ND	1.56	11.70	87.75	ELXZ100ELL682MM25S
	8200	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1920-ND	1.40	10.50	78.75	ELXZ100ELL822ML35S
	8200	3330	0.018	0.036	18.0	30.0	7.5	0.8	565-1921-ND	1.44	10.80	81.00	ELXZ100ELL822MM30S
	10000	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-1922-ND	1.52	11.40	85.50	ELXZ100ELL103ML40S
	10000	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-1923-ND	1.93	14.58	110.00	ELXZ100ELL103MM35S
	12000	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-1924-ND	1.92	14.40	108.00	ELXZ100ELL123MM40S
16	47	175	0.50	1.0	5.0	11.5	2.0	0.5	565-1925-ND	.30	2.07	14.58	ELXZ160ELL470MEB5D
	220	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1927-ND	.29	1.95	13.75	ELXZ160ELL221MF15D
	330	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1928-ND	.35	2.34	16.50	ELXZ160ELL331MH12D
	470	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1929-ND	.33	2.45	17.50	ELXZ160ELL471MJC5S
	470	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1930-ND	.51	3.78	27.00	ELXZ160ELL471MH15D

(Continued)

LXZ Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz)		Dimensions — (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
16	560	810	0.080	0.16	8.0	20.0	3.5	0.6	565-1931-ND	.43	3.15	22.50	ELXZ160ELL561MH20D
	680	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1932-ND	.43	3.15	22.50	ELXZ160ELL681MJ16S
	1000	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1933-ND	.48	3.50	25.00	ELXZ160ELL102MJ20S
	1200	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1934-ND	.57	4.20	30.00	ELXZ160ELL122MJ25S
	1500	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1935-ND	.56	4.16	30.55	ELXZ160ELL152MJ30S
	1500	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1936-ND	.65	4.80	35.25	ELXZ160ELL152MK20S
	2200	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1937-ND	.77	5.76	42.30	ELXZ160ELL222MK25S
	2700	2310	0.025	0.050	12.5	30.0	5.0	0.6	565-1938-ND	.86	6.40	47.00	ELXZ160ELL272MK30S
	2700	2210	0.029	0.058	16.0	20.0	7.5	0.8	565-1939-ND	.95	7.04	51.70	ELXZ160ELL272ML20S
	3300	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1940-ND	.99	7.36	54.05	ELXZ160ELL332MK35S
	3900	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1941-ND	1.36	10.20	76.50	ELXZ160ELL392MK40S
	3900	2560	0.022	0.044	16.0	25.0	7.5	0.8	565-1942-ND	1.04	7.80	58.50	ELXZ160ELL392ML25S
	3900	2490	0.028	0.056	18.0	20.0	7.5	0.8	565-1943-ND	1.12	8.40	63.00	ELXZ160ELL392MM20S
	4700	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1944-ND	1.16	8.70	65.25	ELXZ160ELL472ML30S
	4700	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1945-ND	1.32	9.90	74.25	ELXZ160ELL472MM25S
	5600	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1946-ND	1.36	10.20	76.50	ELXZ160ELL562ML35S
	5600	3330	0.018	0.036	18.0	30.0	7.5	0.8	565-1947-ND	1.40	10.50	78.75	ELXZ160ELL562MM30S
	6800	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-1948-ND	1.76	13.20	99.00	ELXZ160ELL682ML40S
	8200	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-1949-ND	1.79	13.52	102.00	ELXZ160ELL822MM35S
	10000	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-1950-ND	1.79	13.52	102.00	ELXZ160ELL103MM40S
25	47	175	0.50	1.0	5.0	11.5	2.0	0.5	565-1951-ND	.23	1.56	11.00	ELXZ250ELL470MEB5D
	100	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1952-ND	.29	1.95	13.75	ELXZ250ELL101MFB5D
	150	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1953-ND	.29	1.95	13.75	ELXZ250ELL151MF15D
	220	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1954-ND	.33	2.45	17.50	ELXZ250ELL221MH12D
	330	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1955-ND	.33	2.45	17.50	ELXZ250ELL331MJC5S
	330	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1956-ND	.38	2.80	20.00	ELXZ250ELL331MH15D
	390	810	0.080	0.16	8.0	20.0	3.5	0.6	565-1957-ND	.43	3.15	22.50	ELXZ250ELL391MH20D
	470	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1958-ND	.38	2.80	20.00	ELXZ250ELL471MJ16S
	680	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1959-ND	.48	3.50	25.00	ELXZ250ELL681MJ20S
	820	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1960-ND	.57	4.20	30.00	ELXZ250ELL821MJ25S
	1000	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1961-ND	.56	4.16	30.55	ELXZ250ELL102MJ30S
	1000	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1962-ND	.60	4.48	32.90	ELXZ250ELL102MK20S
	1500	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1963-ND	.77	5.76	42.30	ELXZ250ELL152MK25S
	1800	2310	0.025	0.050	12.5	30.0	5.0	0.6	565-1964-ND	.86	6.40	47.00	ELXZ250ELL182MK30S
	1800	2210	0.029	0.058	16.0	20.0	7.5	0.8	565-1965-ND	.90	6.72	49.35	ELXZ250ELL182ML20S
	2200	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1966-ND	.99	7.36	54.05	ELXZ250ELL222MK35S
	2200	2490	0.028	0.056	18.0	20.0	7.5	0.8	565-1967-ND	1.08	8.10	60.75	ELXZ250ELL222MM20S
	2700	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1968-ND	1.00	7.50	56.25	ELXZ250ELL272MK40S
	2700	2560	0.022	0.044	16.0	25.0	7.5	0.8	565-1969-ND	1.04	7.80	58.50	ELXZ250ELL272ML25S
	3300	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1970-ND	1.20	9.00	67.50	ELXZ250ELL332ML30S
	3300	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1971-ND	1.32	9.90	74.25	ELXZ250ELL332MM25S
	3900	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1972-ND	1.60	12.00	90.00	ELXZ250ELL392ML35S
	3900	3330	0.018	0.036	18.0	30.0	7.5	0.8	565-1973-ND	1.44	10.80	81.00	ELXZ250ELL392MM30S
	4700	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-1974-ND	1.52	11.40	85.50	ELXZ250ELL472ML40S
	4700	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-1975-ND	1.64	12.30	92.25	ELXZ250ELL472MM35S
	5600	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-1976-ND	1.88	14.10	105.75	ELXZ250ELL562MM40S
35	33	175	0.50	1.0	5.0	11.5	2.0	0.5	565-1977-ND	.23	1.56	11.00	ELXZ350ELL330MEB5D
	56	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1978-ND	.23	1.56	11.00	ELXZ350ELL560MFB5D
	100	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1979-ND	.37	2.73	19.50	ELXZ350ELL101MF15D
	150	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1980-ND	.33	2.45	17.50	ELXZ350ELL151MH12D
	220	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1981-ND	.33	2.45	17.50	ELXZ350ELL221MJC5S
	220	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1982-ND	.38	2.80	20.00	ELXZ350ELL221MH15D
	270	810	0.080	0.16	8.0	20.0	3.5	0.6	565-1983-ND	.43	3.15	22.50	ELXZ350ELL271MH20D
	330	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1984-ND	.43	3.15	22.50	ELXZ350ELL331MJ16S
	470	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1985-ND	.48	3.50	25.00	ELXZ350ELL471MJ20S
	560	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1986-ND	.57	4.20	30.00	ELXZ350ELL561MJ25S
	680	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1987-ND	.56	4.16	30.55	ELXZ350ELL681MJ30S
	680	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1988-ND	.60	4.48	32.90	ELXZ350ELL681MK20S
	1000	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1989-ND	.77	5.76	42.30	ELXZ350ELL102MK25S
	1200	2310	0.025	0.050	12.5	30.0	5.0	0.6	565-1990-ND	.86	6.40	47.00	ELXZ350ELL122MK30S
	1200	2210	0.029	0.058	16.0	20.0	7.5	0.8	565-1991-ND	.90	6.72	49.35	ELXZ350ELL122ML20S
	1500	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1992-ND	.95	7.04	51.70	ELXZ350ELL152MK35S
	1800	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1993-ND	1.00	7.50	56.25	ELXZ350ELL182MK40S
	1800	2560	0.022	0.044	16.0	25.0	7.5	0.8	565-1994-ND	1.04	7.80	58.50	ELXZ350ELL182ML25S
	1800	2490	0.028	0.056	18.0	20.0	7.5	0.8	565-1995-ND	1.16	8.70	65.25	ELXZ350ELL182MM20S
	2200	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1996-ND	1.40	10.50	78.75	ELXZ350ELL222ML30S
	2200	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1997-ND	1.28	9.60	72.00	ELXZ350ELL222MM25S
	2700	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1998-ND	1.36	10.20	76.50	ELXZ350ELL272ML35S
	2700	3330	0.018	0.036	18.0	30.0	7.5	0.8	565-1999-ND	1.48	11.10	83.25	ELXZ350ELL272MM30S
	3300	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-2000-ND	1.56	11.70	87.75	ELXZ350ELL332ML40S
	3300	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-2001-ND	1.68	12.60	94.50	ELXZ350ELL332MM35S
	3900	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-2002-ND	1.88	14.10	105.75	ELXZ350ELL392MM40S
50	22	155	0.90	1.8	5.0	11.5	2.0	0.5	565-2003-ND	.23	1.56	11.00	ELXZ500ELL220MEB5D
	47	260	0.45	0.90	6.3	11.5	2.5	0.5	565-2004-ND	.23	1.56	11.00	ELXZ500ELL470MFB5D
	68	360	0.31	0.62	6.3	15.0	2.5	0.5	565-2026-ND	.29	1.95	13.75	ELXZ500ELL680MF15D
	100	485	0.22	0.44	8.0	12.0	3.5	0.6	565-2005-ND	.35	2.34	16.50	ELXZ500ELL101MH12D
	120	620	0.16	0.32	10.0	12.5	5.0	0.6	565-2008-ND	.38	2.80	20.00	ELXZ500ELL121MJC5S
	120	635	0.16	0.32	8.0	15.0	3.5	0.6	565-2009-ND	.33	2.45	17.50	ELXZ500ELL121MH15D
	180	850	0.13	0.26	10.0	16.0	5.0	0.6	565-2013-ND	.38	2.80	20.00	ELXZ500ELL181MJ16S
	180	730	0.12	0.24	8.0	20.0	3.5	0.6	565-2014-ND	.43	3.15	22.50	ELXZ500ELL181MH20D
	220	1050	0.088	0.18	10.0	20.0	5.0	0.6	565-2017-ND	.43	3.15	22.50	ELXZ500ELL221MJ20S
	330	1250	0.073	0.15	10.0	25.0	5.0	0.6	565-2020-ND	.57	4.20	30.00	ELXZ500ELL331MJ25S
	390	1500	0.054	0.11	10.0	30.0	5.0	0.6	565-2021-ND	.73	5.44	39.95	ELXZ500ELL391MJ30S
	390	1480	0.059	0.12	12.5	20.0	5.0	0.6	565-2022-ND	.60	4.48	32.90	ELXZ500ELL391MK20S
	560	1840	0.044	0.088	12.5	25.0	5.0	0.6	565-2023-ND	.73	5.44	39.95	ELXZ500ELL561MK25S
	680	2220	0.039	0.078	12.5	30.0	5.0	0.6	565-2024-ND	.77	5.76	42.30	ELXZ500ELL681MK30S
	680	1840	0.048	0.096	16.0	20.0	7.5	0.8	565-2025-ND	.86	6.40	47.00	ELXZ500ELL681ML20S
	820	2290	0.033	0.066	12.5	35.0	5.0	0.6	565-2027-ND	.90	6.72	49.35	ELXZ500ELL821MK35S
	820	1980	0.042	0.084	18.0	20.0	7.5	0.8	565-2028-ND	1.08	8.10	60.75	ELXZ500ELL821MM20S
	1000	2500	0.029	0.058	12.5	40.0	5.0	0.6	565-2006-ND	1.03	7.68	56.40	ELXZ500ELL102MK40S
	1000	2240	0.034	0.068	16..0	25.0	7.5	0.8	565-2007-ND	1.00	7.50	56.25	ELXZ500ELL102ML25S
	1200	2700	0.028	0.056	16.0	30.0	7.5	0.8	565-2010-ND	1.28	9.60	72.00	ELXZ500ELL122ML30S
	1200	2610	0.029	0.058	18.0	25.0	7.5	0.8	565-2011-ND	1.16	8.70	65.25	ELXZ500ELL122MM25S
	1500	2800	0.025	0.050	16.0	35.0	7.5	0.8	565-2012-ND	1.44	10.80	81.00	ELXZ500ELL152ML35S
	1800	3200	0.021	0.042	16.0	40.0	7.5	0.8	565-2015-ND	1.40	10.50	78.75	ELXZ500ELL182ML40S
	1800	3000	0.025	0.050	18.0	30.0	7.5	0.8	565-2016-ND	1.48	11.10	83.25	ELXZ500ELL182MM30S
	2200	3100	0.023	0.046	18.0	35.0	7.5	0.8	565-2018-ND	1.64	12.30	92.25	ELXZ500ELL222MM35S
	2700	3400	0.020	0.040	18.0	40.0	7.5	0.8	565-2019-ND	2.00	15.11	114.00	ELXZ500ELL272MM40S
63	22	240	1.0	2.0	6.3	11.5	2.5	0.5	565-2041-ND	.23	1.56	11.00	ELXZ630ELL220MFB5D
	39	330	0.61	1.4	6.3	15.0	2.5	0.5	565-2045-ND	.23	1.56	11.00	ELXZ630ELL390MF15D
	68	405	0.34	0.75	8.0	12.0	3.5	0.6	565-2051-ND	.43	3.15	22.50	ELXZ630ELL680MH12D
	100	540	0.255	0.51	10.0	12.5	5.0	0.6	565-2029-ND	.33	2.45	17.50	ELXZ630ELL101MJC5S
	100	535	0.27	0.65	8.0	15.0	3.5	0.6	565-2030-ND	.35	2.34	16.50	ELXZ630ELL101MH15D
	120	600	0.19	0.38	10.0	16.0	5.0	0.6	565-2032-ND	.33	2.45	17.50	ELXZ630ELL121MJ16S
	150	690	0.21	0.52	8.0	20.0	3.5	0.6	565-2036-ND	.33	2.45	17.50	ELXZ630ELL151MH20D

(Continued)

LXZ Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100kHz	Maximum Impedance (Ω / 100kHz) 20°C	Maximum Impedance (Ω / 100kHz) -10°C	Dimensions — (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	United Chemi-Con Part No.
63	180	890	0.145	0.29	10.0	20.0	5.0	0.6	565-2038-ND	.38	2.80	20.00	ELXZ630ELL181MJ20S
	220	1050	0.13	0.26	10.0	25.0	5.0	0.6	565-2040-ND	.48	3.50	25.00	ELXZ630ELL221MJ25S
	330	1300	0.090	0.18	10.0	30.0	5.0	0.6	565-2042-ND	.57	4.20	30.00	ELXZ630ELL331MJ30S
	330	1290	0.085	0.17	12.5	20.0	5.0	0.6	565-2043-ND	.56	4.16	30.55	ELXZ630ELL331MK20S
	390	1720	0.070	0.14	12.5	25.0	5.0	0.6	565-2044-ND	.65	4.80	35.25	ELXZ630ELL391MK25S
	470	2090	0.055	0.11	12.5	30.0	5.0	0.6	565-2046-ND	.69	5.12	37.60	ELXZ630ELL471MK30S
	470	1770	0.059	0.12	16.0	20.0	7.5	0.8	565-2047-ND	.77	5.76	42.30	ELXZ630ELL471ML20S
	680	2270	0.047	0.094	12.5	35.0	5.0	0.6	565-2048-ND	.86	6.40	47.00	ELXZ630ELL681MK35S
	680	2160	0.050	0.10	16.0	25.0	7.5	0.8	565-2049-ND	.90	6.72	49.35	ELXZ630ELL681ML25S
	680	2290	0.055	0.11	18.0	20.0	7.5	0.8	565-2050-ND	1.00	7.50	56.25	ELXZ630ELL681MM20S
	820	2560	0.042	0.084	12.5	40.0	5.0	0.6	565-2052-ND	.95	7.04	51.70	ELXZ630ELL821MK40S
	820	2670	0.043	0.086	16.0	30.0	7.5	0.8	565-2053-ND	1.03	7.68	56.40	ELXZ630ELL821ML30S
	820	2590	0.043	0.086	18.0	25.0	7.5	0.8	565-2054-ND	1.08	8.10	60.75	ELXZ630ELL821MM25S
	1000	2770	0.036	0.072	16.0	35.0	7.5	0.8	565-2031-ND	1.28	9.60	72.00	ELXZ630ELL102ML35S
	1200	2850	0.030	0.060	16.0	40.0	7.5	0.8	565-2033-ND	1.24	9.30	69.75	ELXZ630ELL122ML40S
	1200	2950	0.032	0.064	18.0	30.0	7.5	0.8	565-2034-ND	1.36	10.20	76.50	ELXZ630ELL122MM30S
	1500	3100	0.030	0.060	18.0	35.0	7.5	0.8	565-2037-ND	1.60	12.00	90.00	ELXZ630ELL152MM35S
	1800	3210	0.025	0.050	18.0	40.0	7.5	0.8	565-2039-ND	1.72	12.90	96.75	ELXZ630ELL182MM40S

Alchip™ MVA/MVE Series Aluminum Electrolytic Capacitors (SMT)

General Purpose MVA: 85°C; MVE: 105°C

Features: General Purpose, Solvent Proof (6.3-63V)
Specifications: • Capacitance Tolerance: ±20%

Case Dimensions:

Size Code	D	L	A	B	C	W	P
D55	4	5.2	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 ~ 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0 ~ 1.3	4.2
LH0	16	16.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
LN0	16	21.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
MH0	18	16.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5
MN0	18	21.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5

Terminal Code: A
Size Code: D55 ~ KG5

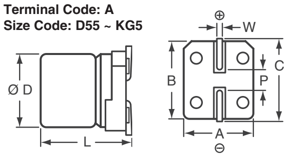

Terminal Code: G
Size Code: LH0 ~ MN0

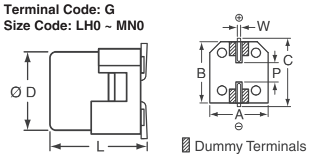

Leakage Current:

Case D55-JA0	I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C
Case KE0-MN0	I=0.03CV or 4µA, whichever is greater, after 1 minute @ 20°C

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions — (mm) D	L	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	United Chemi-Con Part No.
							MVA Series — 85°C							
6.3	33	D55	0.35	30	4.0	5.2	565-2055-1-ND	.51	.84	1.95	565-2055-2-ND	2,000	38.00/M	EMVA6R3ADA330MD55G
	47	D55	0.35	33	4.0	5.2	565-2056-1-ND	.72	1.19	2.76	565-2056-2-ND	2,000	54.00/M	EMVA6R3ADA470MD55G
	100	E55	0.35	55	5.0	5.2	565-2057-1-ND	.64	1.05	2.44	565-2057-2-ND	1,000	54.00	EMVA6R3ADA101ME55G
	220	F55	0.35	88	6.3	5.2	565-2058-1-ND	.79	1.30	3.02	565-2058-2-ND	1,000	67.00	EMVA6R3ADA221MF55G
	330	F80	0.35	135	6.3	7.7	565-2059-1-ND	.87	1.44	3.34	565-2059-2-ND	900	73.80	EMVA6R3ADA331MF80G
	470	HA0	0.35	280	8.0	10.0	565-2060-1-ND	1.37	2.26	5.25	565-2060-2-ND	500	64.50	EMVA6R3ADA471MHA0G
	680	HA0	0.35	290	8.0	10.0	565-2061-1-ND	1.36	2.24	5.20	565-2061-2-ND	500	64.00	EMVA6R3ADA681MHA0G
	820	HA0	0.35	320	8.0	10.0	565-2062-1-ND	1.36	2.24	5.20	565-2062-2-ND	500	64.00	EMVA6R3ADA821MHA0G
	1000	JA0	0.35	430	10.0	10.0	565-2063-1-ND	2.19	3.61	8.37	565-2063-2-ND	500	92.50	EMVA6R3ADA102MJA0G
	1500	JA0	0.35	480	10.0	10.0	565-2064-1-ND	2.19	3.61	8.38	565-2064-2-ND	500	93.00	EMVA6R3ADA152MJA0G
	2200	KE0	0.40	890	12.5	13.5	565-2065-1-ND	4.89	8.05	18.69	565-2065-2-ND	200	108.20	EMVA6R3ARA222MKE0S
	3300	KG5	0.42	1000	12.5	16.0	565-2066-1-ND	5.31	8.75	20.31	565-2066-2-ND	150	84.45	EMVA6R3ARA332MKG5S
	3300	LH0	0.42	1200	16.0	16.5	565-2067-1-ND	7.44	12.25	28.44	565-2067-2-ND	125	98.50	EMVA6R3GDA332MLH0S
	4700	LH0	0.44	1400	16.0	16.5	565-2068-1-ND	7.08	11.67	27.08	565-2068-2-ND	125	93.75	EMVA6R3GDA472MLH0S
	6800	LN0	0.48	1750	16.0	21.5	565-2069-1-ND	8.50	14.00	32.50	565-2069-2-ND	75	90.00	EMVA6R3GDA682MLN0S
	6800	MH0	0.48	1700	18.0	16.5	565-2070-1-ND	9.56	15.75	36.56	565-2070-2-ND	125	126.63	EMVA6R3GDA682MMH0S
	10000	MN0	0.56	2000	18.0	21.5	565-2071-1-ND	8.93	14.70	34.13	565-2071-2-ND	75	94.50	EMVA6R3GDA103MMN0S
10	22	D55	0.30	26	4.0	5.2	565-2072-1-ND	.51	.84	1.95	565-2072-2-ND	2,000	38.00/M	EMVA100ADA220MD55G
	33	D55	0.30	30	4.0	5.2	565-2073-1-ND	.51	.84	1.95	565-2073-2-ND	2,000	38.00/M	EMVA100ADA330MD55G
	47	E55	0.30	44	5.0	5.2	565-2074-1-ND	.64	1.05	2.44	565-2074-2-ND	1,000	54.00	EMVA100ADA470ME55G
	100	F55	0.30	70	6.3	5.2	565-2075-1-ND	.72	1.19	2.76	565-2075-2-ND	1,000	61.00	EMVA100ADA101MF55G
	150	F55	0.30	79	6.3	5.2	565-2076-1-ND	.73	1.20	2.78	565-2076-2-ND	1,000	62.00	EMVA100ADA151MF55G
	220	F80	0.30	130	6.3	7.7	565-2077-1-ND	.87	1.44	3.33	565-2077-2-ND	900	73.80	EMVA100ADA221MF80G
	330	HA0	0.30	270	8.0	10.0	565-2078-1-ND	1.28	2.10	4.88	565-2078-2-ND	500	60.00	EMVA100ADA331MHA0G
	470	HA0	0.30	280	8.0	10.0	565-2079-1-ND	1.28	2.11	4.90	565-2079-2-ND	500	60.50	EMVA100ADA471MHA0G
	1000	JA0	0.30	430	10.0	10.0	565-2080-1-ND	2.34	3.85	8.94	565-2080-2-ND	500	99.00	EMVA100ADA102MJA0G
	2200	KE0	0.36	960	12.5	13.5	565-2081-1-ND	4.73	7.80	18.10	565-2081-2-ND	200	104.60	EMVA100ADA222MKE0S
	3300	LH0	0.38	1300	16.0	16.5	565-2082-1-ND	7.44	12.25	28.44	565-2082-2-ND	125	98.50	EMVA100GDA332MLH0S
	4700	LN0	0.40	1550	16.0	21.5	565-2083-1-ND	8.50	14.00	32.50	565-2083-2-ND	75	90.00	EMVA100GDA472MLN0S
	4700	MH0	0.40	1600	18.0	16.5	565-2084-1-ND	9.56	15.75	36.56	565-2084-2-ND	125	126.63	EMVA100GDA472MMH0S
	6800	MN0	0.44	1850	18.0	21.5	565-2085-1-ND	6.80	11.20	26.00	565-2085-2-ND	75	72.00	EMVA100GDA682MMN0S
16	22	D55	0.26	26	4.0	5.2	565-2086-1-ND	.55	.90	2.09	565-2086-2-ND	2,000	41.00/M	EMVA160ADA220MD55G
	33	E55	0.26	37	5.0	5.2	565-2087-1-ND	.66	1.09	2.53	565-2087-2-ND	1,000	56.00	EMVA160ADA330ME55G
	47	E55	0.26	44	5.0	5.2	565-2088-1-ND	.64	1.05	2.44	565-2088-2-ND	1,000	54.00	EMVA160ADA470ME55G
	100	F55	0.26	70	6.3	5.2	565-2089-1-ND	.78	1.28	2.98	565-2089-2-ND	1,000	66.00	EMVA160ADA101MF55G
	150	F80	0.26	110	6.3	7.7	565-2090-1-ND	.94	1.55	3.60	565-2090-2-ND	900	80.10	EMVA160ADA151MF80G
	220	F80	0.26	130	6.3	7.7	565-2091-1-ND	.96	1.59	3.68	565-2091-2-ND	900	81.90	EMVA160ADA221MF80G
	330	HA0	0.26	270	8.0	10.0	565-2092-1-ND	1.36	2.25	5.21	565-2092-2-ND	500	64.00	EMVA160ADA331MHA0G
	470	HA0	0.26	280	8.0	10.0	565-2093-1-ND	1.28	2.11	4.91	565-2093-2-ND	500	60.50	EMVA160ADA471MHA0G
	680	JA0	0.26	380	10.0	10.0	565-2094-1-ND	2.37	3.91	9.07	565-2094-2-ND	500	100.50	EMVA160ADA681MJA0G
	1000	KE0	0.30	710	12.5	13.5	565-2095-1-ND	4.68	7.70	17.88	565-2095-2-ND	200	103.40	EMVA160ARA102MKE0S
	2200	LH0	0.32	1150	16.0	16.5	565-2096-1-ND	7.40	12.20	28.31	565-2096-2-ND	125	98.00	EMVA160GDA222MLH0S
	3300	LN0	0.34	1450	16.0	21.5	565-2097-1-ND	8.50	14.00	32.50	565-2097-2-ND	75	90.00	EMVA160GDA332MLN0S
	3300	MH0	0.34	1450	18.0	16.5	565-2098-1-ND	9.56	15.75	36.56	565-2098-2-ND	125	126.63	EMVA160GDA332MMH0S
	4700	MN0	0.36	1750	18.0	21.5	565-2099-1-ND	9.45	15.56	36.13	565-2099-2-ND	75	100.05	EMVA160GDA472MMN0S
25	10	D55	0.16	24	4.0	5.2	565-2100-1-ND	.51	.84	1.95	565-2100-2-ND	2,000	38.00/M	EMVA250ADA100MD55G
	22	E55	0.16	41	5.0	5.2	565-2101-1-ND	.62	1.02	2.36	565-2101-2-ND	1,000	52.00	EMVA250ADA220ME55G
	33	E55	0.16	47	5.0	5.2	565-2102-1-ND	.67	1.10	2.55	565-2102-2-ND	1,000	56.00	EMVA250ADA330ME55G
	47	F55	0.16	60	6.3	5.2	565-2103-1-ND	.77	1.27	2.95	565-2103-2-ND	1,000	65.00	EMVA250ADA470MF55G
	56	F55	0.16	66	6.3	5.2	565-2104-1-ND	.77	1.26	2.93	565-2104-2-ND	1,000	65.00	EMVA250ADA560MF55G
	100	F80	0.16	120	6.3	7.7	565-2105-1-ND	.94	1.54	3.59	565-2105-2-ND	900	79.20	EMVA250ADA101MF80G
	150	HA0	0.16	210	8.0	10.0	565-2106-1-ND	1.36	2.24	5.20	565-2106-2-ND	500	64.00	EMVA250ADA151MHA0G
	220	HA0	0.16	260	8.0	10.0	565-2107-1-ND	1.37	2.26	5.24	565-2107-2-ND	500	64.50	EMVA250ADA221MHA0G
	330	HA0	0.16	300	8.0	10.0	565-2108-1-ND	1.40	2.30	5.34	565-2108-2-ND	500	66.00	EMVA250ADA331MHA0G

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Alchip™ MVA/MVE Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions — (mm)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
					D	L		5	10	25		Qty.	Pricing	
25	470	JA0	0.16	400	10.0	10.0	565-2109-1-ND	2.37	3.91	9.07	565-2109-2-ND	500	100.50	EMVA250ADA471MJA0G
	1000	KE0	0.26	820	12.5	13.5	565-2110-1-ND	4.96	8.17	18.97	565-2110-2-ND	200	109.80	EMVA250ARA102MKE0S
	2200	MH0	0.28	1400	18.0	16.5	565-2112-1-ND	9.56	15.75	36.56	565-2112-2-ND	125	126.63	EMVA250GDA222MMH0S
	3300	MN0	0.30	1800	18.0	21.5	565-2113-1-ND	9.56	15.75	36.56	565-2113-2-ND	75	101.25	EMVA250GDA332MMN0S
35	4.7	D55	014	18	4.0	5.2	565-2114-1-ND	.54	.90	2.08	565-2114-2-ND	2,000	41.00/M	EMVA350ADA4R7MD55G
	10	D55	0.14	24	4.0	5.2	565-2115-1-ND	.51	.84	1.95	565-2115-2-ND	2,000	38.00/M	EMVA350ADA100MD55G
	22	E55	0.14	41	5.0	5.2	565-2116-1-ND	.66	1.09	2.53	565-2116-2-ND	1,000	56.00	EMVA350ADA220ME55G
	33	F55	0.14	54	6.3	5.2	565-2117-1-ND	.77	1.26	2.93	565-2117-2-ND	1,000	65.00	EMVA350ADA330MF55G
	47	F60	0.14	64	6.3	5.7	565-2118-1-ND	.85	1.40	3.25	565-2118-2-ND	1,000	64.00	EMVA350ADA470MF60G
	100	F80	0.14	120	6.3	7.7	565-2119-1-ND	.88	1.46	3.38	565-2119-2-ND	900	74.70	EMVA350ADA101MF80G
	150	HA0	0.14	210	8.0	10.0	565-2120-1-ND	1.25	2.07	4.79	565-2120-2-ND	500	59.00	EMVA350ADA151MHA0G
	220	HA0	0.14	260	8.0	10.0	565-2121-1-ND	1.29	2.13	4.94	565-2121-2-ND	500	61.00	EMVA350ADA221MHA0G
	330	JA0	0.14	360	10.0	10.0	565-2122-1-ND	2.34	3.85	8.94	565-2122-2-ND	500	99.00	EMVA350ADA331MJA0G
	470	KE0	0.22	600	12.5	13.5	565-2123-1-ND	4.89	8.05	18.69	565-2123-2-ND	200	105.60	EMVA350ARA471MKE0S
	1000	LH0	0.22	1100	16.0	16.5	565-2125-1-ND	7.44	12.25	28.44	565-2125-2-ND	170	133.96	EMVA350GDA102MLH0S
	2200	MN0	0.24	1700	18.0	21.5	565-2126-1-ND	18.04	29.72	68.98	565-2126-2-ND	75	191.02	EMVA350GDA222MMN0S
50	3.3	D55	0.12	15	4.0	5.2	565-2127-1-ND	.54	.90	2.08	565-2127-2-ND	2,000	41.00/M	EMVA500ADA3R3MD55G
	4.7	D55	0.12	18	4.0	5.2	565-2128-1-ND	.51	.84	1.95	565-2128-2-ND	2,000	38.00/M	EMVA500ADA4R7MD55G
	10	E55	0.12	30	5.0	5.2	565-2129-1-ND	.66	1.09	2.53	565-2129-2-ND	1,000	56.00	EMVA500ADA100ME55G
	22	F55	0.12	47	6.3	5.2	565-2130-1-ND	.74	1.23	2.84	565-2130-2-ND	1,000	63.00	EMVA500ADA220MF55G
	33	F80	0.12	70	6.3	7.7	565-2131-1-ND	.92	1.51	3.50	565-2131-2-ND	900	77.40	EMVA500ADA330MF80G
	47	F80	0.12	85	6.3	7.7	565-2132-1-ND	.92	1.52	3.53	565-2132-2-ND	900	78.30	EMVA500ADA470MF80G
	100	HA0	0.12	190	8.0	10.0	565-2133-1-ND	1.66	2.73	6.34	565-2133-2-ND	500	78.00	EMVA500ADA101MHA0G
	220	JA0	0.12	320	10.0	10.0	565-2134-1-ND	2.19	3.61	8.38	565-2134-2-ND	500	93.00	EMVA500ADA221MJA0G
	330	KE0	0.18	600	12.5	13.5	565-2135-1-ND	4.96	8.17	18.97	565-2135-2-ND	200	109.80	EMVA500ARA331MKE0S
	470	KG5	0.18	740	12.5	16.0	565-2136-1-ND	5.31	8.75	20.31	565-2136-2-ND	150	84.45	EMVA500ARA471MKG5S
	470	LH0	0.18	850	16.0	16.5	565-2137-1-ND	7.15	11.78	27.34	565-2137-2-ND	125	94.63	EMVA500GDA471MLH0S
	1000	LN0	0.18	1300	16.0	21.5	565-2138-1-ND	8.50	14.00	32.50	565-2138-2-ND	75	90.00	EMVA500GDA102MLN0S
	1000	MN0	0.18	1400	18.0	21.5	565-2139-1-ND	17.43	28.70	66.63	565-2139-2-ND	75	184.50	EMVA500ADA102MMN0S
63	0.10	D55	0.12	1.3	4.0	5.2	565-2140-1-ND	.54	.89	2.07	565-2140-2-ND	2,000	41.00/M	EMVA630ADAR10MD55G
	0.22	D55	0.12	3.0	4.0	5.2	565-2141-1-ND	.54	.89	2.07	565-2141-2-ND	2,000	41.00/M	EMVA630ADAR22MD55G
	0.33	D55	0.12	4.0	4.0	5.2	565-2142-1-ND	.53	.88	2.03	565-2142-2-ND	2,000	40.00/M	EMVA630ADAR33MD55G
	0.47	D55	0.12	5.0	4.0	5.2	565-2143-1-ND	.54	.89	2.07	565-2143-2-ND	2,000	41.00/M	EMVA630ADAR47MD55G
	1.0	D55	0.12	8.0	4.0	5.2	565-2144-1-ND	.53	.88	2.03	565-2144-2-ND	2,000	40.00/M	EMVA630ADA1R0MD55G
	2.2	D55	0.12	12	4.0	5.2	565-2145-1-ND	.77	1.26	2.93	565-2145-2-ND	2,000	58.00/M	EMVA630ADA2R2MD55G
	3.3	E55	0.12	17	5.0	5.2	565-2146-1-ND	.64	1.05	2.44	565-2146-2-ND	1,000	54.00	EMVA630ADA3R3ME55G
	4.7	E55	0.12	20	5.0	5.2	565-2147-1-ND	.65	1.08	2.50	565-2147-2-ND	1,000	55.00	EMVA630ADA4R7ME55G
	10	F55	0.12	32	6.3	5.2	565-2148-1-ND	.76	1.25	2.91	565-2148-2-ND	1,000	64.00	EMVA630ADA100MF55G
	22	F80	0.12	60	6.3	7.7	565-2149-1-ND	.87	1.43	3.32	565-2149-2-ND	900	73.80	EMVA630ADA220MF80G
	33	HA0	0.12	110	8.0	10.0	565-2150-1-ND	1.36	2.24	5.20	565-2150-2-ND	500	64.00	EMVA630ADA330MHA0G
	47	HA0	0.12	130	8.0	10.0	565-2151-1-ND	1.24	2.04	4.75	565-2151-2-ND	500	58.50	EMVA630ADA470MHA0G
	56	JA0	0.12	160	10.0	10.0	565-2152-1-ND	2.19	3.61	8.37	565-2152-2-ND	500	92.50	EMVA630ADA560MJA0G
	68	JA0	0.12	170	10.0	10.0	565-2153-1-ND	2.19	3.61	8.37	565-2153-2-ND	500	92.50	EMVA630ADA680MJA0G
	100	KE0	0.14	380	12.5	13.5	565-2154-1-ND	4.89	8.05	18.69	565-2154-2-ND	200	108.20	EMVA630ARA101MKE0S
	220	KE0	0.14	580	12.5	13.5	565-2155-1-ND	4.89	8.05	18.69	565-2155-2-ND	200	108.20	EMVA630ARA221MKE0S
	330	KG5	0.14	720	12.5	16.0	565-2156-1-ND	5.11	8.41	19.52	565-2156-2-ND	150	84.75	EMVA630ARA331MKG5S
	330	LH0	0.14	820	16.0	16.5	565-2157-1-ND	5.11	8.41	19.52	565-2157-2-ND	125	70.63	EMVA630GDA331MLH0S
	470	LH0	0.14	950	16.0	16.5	565-2158-1-ND	15.00	24.71	57.36	565-2158-2-ND	125	198.62	EMVA630GDA471MLH0S
	470	MH0	0.14	1000	18.0	16.5	565-2159-1-ND	9.56	15.75	36.56	565-2159-2-ND	125	126.63	EMVA630GDA471MMH0S
100	22	HA0	0.12	90	8.0	10.0	565-2160-1-ND	1.28	2.10	4.88	565-2160-2-ND	500	60.00	EMVA101ADA220MHA0G
	33	JA0	0.12	120	10.0	10.0	565-2161-1-ND	2.37	3.91	9.07	565-2161-2-ND	500	100.50	EMVA101ADA330MJA0G
	68	KE0	0.10	380	12.5	13.5	565-2162-1-ND	4.68	7.70	17.88	565-2162-2-ND	200	103.40	EMVA101ARA680MKE0S
	100	KE0	0.10	440	12.5	13.5	565-2163-1-ND	4.92	8.11	18.83	565-2163-2-ND	200	109.00	EMVA101ARA101MKE0S
	220	LN0	0.10	850	16.0	21.5	565-2164-1-ND	8.50	14.00	32.50	565-2164-2-ND	75	90.00	EMVA101GDA221MLN0S
	220	MH0	0.10	800	18.0	16.5	565-2165-1-ND	9.56	15.75	36.56	565-2165-2-ND	125	126.63	EMVA101GDA221MMH0S
	330	MN0	0.10	1000	18.0	21.5	565-2166-1-ND	16.36	26.95	62.56	565-2166-2-ND	75	153.08	EMVA101GDA331MMN0S
MVE Series — 105°C														
6.3	22	D55	0.30	22	4.0	5.2	565-2167-1-ND	.66	1.08	2.51	565-2167-2-ND	2,000	49.00/M	EMVE6R3ADA220MD55G
	33	E55	0.30	34	5.0	5.2	565-2168-1-ND	.72	1.18	2.75	565-2168-2-ND	1,000	61.00	EMVE6R3ADA330ME55G
	47	E55	0.30	38	5.0	5.2	565-2169-1-ND	.72	1.18	2.75	565-2169-2-ND	1,000	61.00	EMVE6R3ADA470ME55G
	100	F55	0.30	69	6.3	5.2	565-2170-1-ND	1.55	2.56	5.93	565-2170-2-ND	1,000	102.00	EMVE6R3ADA101MF55G
	220	F80	0.45	120	6.3	7.7	565-2171-1-ND	.97	1.60	3.71	565-2171-2-ND	900	81.90	EMVE6R3ADA221MF80G
	330	HA0	0.40	290	8.0	10.0	565-2172-1-ND	1.41	2.32	5.38	565-2172-2-ND	500	66.00	EMVE6R3ADA331MHA0G
	470	HA0	0.45	320	8.0	10.0	565-2173-1-ND	1.41	2.32	5.38	565-2173-2-ND	500	66.00	EMVE6R3ADA471MHA0G
	680	HA0	0.45	340	8.0	10.0	565-2174-1-ND	1.41	2.32	5.38	565-2174-2-ND	500	66.00	EMVE6R3ADA681MHA0G
	1000	JA0	0.40	410	10.0	10.0	565-2175-1-ND	2.37	3.91	9.07	565-2175-2-ND	500	100.50	EMVE6R3ADA102MJA0G
	1500	JA0	0.45	550	10.0	10.0	565-2176-1-ND	2.37	3.91	9.07	565-2176-2-ND	500	100.50	EMVE6R3ADA152MJA0G
	2200	KE0	0.40	680	12.5	13.5	565-2177-1-ND	5.32	8.75	20.32	565-2177-2-ND	200	112.60	EMVE6R3ARA222MKE0S
	2200	LH0	0.40	840	16.0	16.5	565-2178-1-ND	5.63	9.27	21.52	565-2178-2-ND	125	74.50	EMVE6R3GDA222MLH0S
	3300	KG5	0.42	850	12.5	16.0	565-2179-1-ND	5.32	8.75	20.32	—	—	—	EMVE6R3ARA332MKG5S
	3300	MH0	0.42	1000	18.0	16.5	565-2180-1-ND	9.07	14.93	34.67	565-2180-2-ND	125	120.00	EMVE6R3GDA332MMH0S
	4700	LN0	0.44	1200	16.0	21.5	565-2181-1-ND	10.01	16.48	38.26	565-2181-2-ND	75	105.97	EMVE6R3GDA472MLN0S
	4700	MH0	0.44	1200	18.0	16.5	565-2182-1-ND	9.07	14.93	34.67	565-2182-2-ND	125	120.00	EMVE6R3GDA472MMH0S
	6800	LN0	0.48	1200	16.0	21.5	565-2183-1-ND	10.01	16.48	38.26	565-2183-2-ND	75	105.98	EMVE6R3GDA682MLN0S
	6800	MN0	0.48	1350	18.0	21.5	565-2184-1-ND	10.01	16.48	38.26	565-2184-2-ND	75	105.97	EMVE6R3GDA682MMN0S
10	22	E55	0.24	30	5.0	5.2	565-2185-1-ND	.72	1.18	2.75	565-2185-2-ND	1,000	61.00	EMVE100ADA220ME55G
	33	E55	0.24	34	5.0	5.2	565-2186-1-ND	.71	1.16	2.70	565-2186-2-ND	1,000	60.00	EMVE100ADA330ME55G
	47	F55	0.24	48	6.3	5.2	565-2187-1-ND	.78	1.28	2.98	565-2187-2-ND	1,000	66.00	EMVE100ADA470MF55G
	100	F55	0.30	69	6.3	5.2	565-2188-1-ND	.77	1.26	2.93	565-2188-2-ND	1,000	65.00	EMVE100ADA101MF55G
	150	F80	0.35	100	6.3	7.7	565-2189-1-ND	.97	1.60	3.71	565-2189-2-ND	900	81.90	EMVE100ADA151MF80G
	220	F80	0.35	120	6.3	7.7	565-2190-1-ND	.97	1.59	3.69	565-2190-2-ND	900	81.90	EMVE100ADA221MF80G
	330	HA0	0.35	290	8.0	10.0	565-2191-1-ND	1.38	2.27	5.27	565-2191-2-ND	500	65.00	EMVE100ADA331MHA0G
	470	HA0	0.35	320	8.0	10.0	565-2192-1-ND	1.40	2.31	5.36	565-2192-2-ND	500	66.00	EMVE100ADA471MHA0G
	1000	JA0	0.35	410	10.0	10.0	565-2193-1-ND	2.37	3.91	9.07	565-2193-2-ND	500	100.50	EMVE100ADA102MJA0G
	2200	KG5	0.36	750	12.5	16.0	565-2194-1-ND	5.22	8.59	19.94	565-2194-2-ND	150	86.55	EMVE100ARA222MKG5S
	2200	LH0	0.36	850	16.0	16.5	565-2195-1-ND	5.22	8.59	19.94	565-2195-2-ND	125	72.13	EMVE100GDA222MLH0S
	3300	LH0	0.38	1000	16.0	16.5	565-2196-1-ND	5.63	9.27	21.52	565-2196-2-ND	125	74.50	EMVE100GDA332MLH0S
	3300	MH0	0.38	1100	18.0	16.5	565-2197-1-ND	9.07	14.93	34.67	565-2197-2-ND	125	120.00	EMVE100GDA332MMH0S
	4700	LN0	0.40	1300	16.0	21.5	565-2198-1-ND	10.01	16.48	38.26	565-2198-2-ND	75	105.97	EMVE100GDA472MLN0S
	4700	MN0	0.40	1350	18.0	21.5	565-2199-1-ND	10.01	16.48	38.26	565-2199-2-ND	75	105.97	EMVE100GDA472MMN0S
16	10	D55	0.20	17	4.0	5.2	565-2201-1-ND	.64	1.06	2.46	565-2201-2-ND	2,000	48.00/M	EMVE160ADA100MD55G
	22	E55	0.20	30	5.0	5.2	565-2202-1-ND	.71	1.17	2.73	565-2202-2-ND	1,000	60.00	EMVE160ADA220ME55G
	33	F55	0.20	45	6.3	5.2	565-2203-1-ND	.79	1.30	3.01	565-2203-2-ND	1,000	67.00	EMVE160ADA330MF55G
	47	F55	0.20	48	6.3	5.2	565-2200-1-ND	.79	1.30	3.01	565-2200-2-ND	1,000	67.00	EMVE160ADA470MF55G
	100	F55	0.26	69	6.3	5.2	565-2204-1-ND	.78	1.28	2.98	565-2204-2-ND	1,000	66.00	EMVE160ADA101MF55G
	150	F80	0.28	100	6.3	7.7	565-2205-1-ND	.95	1.56	3.62	565-2205-2-ND	900	80.10	EMVE160ADA151MF80G
	220	F80	0.28	120	6.3	7.7	565-2206-1-ND	.96	1.58	3.66	565-2206-2-ND	900	81.00	EMVE160ADA221MF80G
	330	HA0	0.28	290	8.0	10.0	565-2207-1-ND	1.38	2.27	5.27	565-2207-2-ND	500	65.00	EMVE160ADA331MHA0G
	470	HA0	0.28	320	8.0	10.0	565-2208-1-ND	1.41	2.33	5.40	565-2208-2-ND	500	66.50	EMVE160ADA471MHA0G
	680	JA0	0.28	470	10.0	10.0	565-2209-1-ND	2.37	3.91	9.07	565-2209-2-ND	500	100.50	EMVE160ADA681MJA0G
	1000	KE0	0.30	550	12.5	13.5	565-2210-1-ND	5.22	8.59	19.94	565-2210-2-ND	200	115.40	EMVE160ARA102MKE0S
	1000	LH0	0.30	650	16.0	16.5	565-2211-1-ND	5.22	8.59	19.94	565-2211-2-ND	125	72.13	EMVE160GDA102MLH0S
	2200	LH0	0.32	950	16.0	16.5	565-2212-1-ND	8.80	14.49	33.64	565-2212-2-ND	125	116.50	EMVE160GDA222MLH0S
	2200	MH0	0.32	1000	18.0	16.5	565-2213-1-ND	9.07	14.93	34.67	565-2213-2-ND	125	120.00	EMVE160GDA222MMH0S

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Alchip™ MVA/MVE Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions — (mm)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
					D	L		5	10	25		Qty.	Pricing	
16	3300	LN0	0.34	1200	16.0	21.5	565-2214-1-ND	10.01	16.48	38.26	565-2214-2-ND	75	105.98	EMVE160GDA332MLN0S
	3300	MH0	0.34	1200	18.0	16.5	565-2215-1-ND	9.07	14.93	34.67	565-2215-2-ND	125	120.00	EMVE160GDA332MMH0S
25	10	E55	0.16	27	5.0	5.2	565-2216-1-ND	.71	1.17	2.73	565-2216-2-ND	1,000	60.00	EMVE250ADA100ME55G
	22	F55	0.16	44	6.3	5.2	565-2217-1-ND	.78	1.28	2.96	565-2217-2-ND	1,000	66.00	EMVE250ADA220MF55G
	33	F55	0.16	50	6.3	5.2	565-2218-1-ND	.78	1.28	2.98	565-2218-2-ND	1,000	66.00	EMVE250ADA330MF55G
	47	F55	0.16	60	6.3	5.2	565-2219-1-ND	.77	1.27	2.95	565-2219-2-ND	1,000	65.00	EMVE250ADA470MF55G
	100	F80	0.18	100	6.3	7.7	565-2220-1-ND	.96	1.58	3.66	565-2220-2-ND	900	81.00	EMVE250ADA101MF80G
	150	HA0	0.18	240	8.0	10.0	565-2221-1-ND	1.41	2.32	5.38	565-2221-2-ND	500	66.00	EMVE250ADA151MHA0G
	220	HA0	0.18	320	8.0	10.0	565-2222-1-ND	1.38	2.27	5.26	565-2222-2-ND	500	64.50	EMVE250ADA221MHA0G
	330	JA0	0.16	450	10.0	10.0	565-2223-1-ND	2.37	3.91	9.07	565-2223-2-ND	500	100.50	EMVE250ADA331MJA0G
	470	JA0	0.18	490	10.0	10.0	565-2224-1-ND	2.37	3.91	9.07	565-2224-2-ND	500	100.50	EMVE250ADA471MJA0G
	1000	LH0	0.26	820	16.0	16.5	565-2225-1-ND	5.63	9.27	21.52	565-2225-2-ND	125	74.50	EMVE250GDA102MLH0S
	1000	MH0	0.26	880	18.0	16.5	565-2226-1-ND	9.07	14.93	34.67	565-2226-2-ND	125	120.00	EMVE250GDA102MMH0S
	2200	LN0	0.28	1250	16.0	21.5	565-2227-1-ND	8.32	13.70	31.80	—	—	—	EMVE250GDA222MLN0S
	2200	MN0	0.28	1300	18.0	21.5	565-2228-1-ND	10.01	16.48	38.26	565-2228-2-ND	75	105.98	EMVE250GDA222MMN0S
35	4.7	D55	0.14	16	4.0	5.2	565-2229-1-ND	.64	1.06	2.46	565-2229-2-ND	2,000	48.00/M	EMVE350ADA4R7MD55G
	10	E55	0.14	27	5.0	5.2	565-2230-1-ND	.72	1.18	2.74	565-2230-2-ND	1,000	61.00	EMVE350ADA100ME55G
	22	F55	0.14	44	6.3	5.2	565-2231-1-ND	.78	1.29	2.99	565-2231-2-ND	1,000	66.00	EMVE350ADA220MF55G
	33	F60	0.14	54	6.3	5.7	565-2232-1-ND	.80	1.32	3.07	565-2232-2-ND	1,000	68.00	EMVE350ADA330MF60G
	47	F80	0.16	80	6.3	7.7	565-2233-1-ND	.92	1.52	3.53	565-2233-2-ND	900	78.30	EMVE350ADA470MF80G
	100	F80	0.16	100	6.3	7.7	565-2234-1-ND	.97	1.60	3.71	565-2234-2-ND	900	81.90	EMVE350ADA101MF80G
	150	HA0	0.16	260	8.0	10.0	565-2235-1-ND	1.37	2.26	5.24	565-2235-2-ND	500	64.50	EMVE350ADA151MHA0G
	220	JA0	0.16	375	10.0	10.0	565-2236-1-ND	2.37	3.91	9.07	565-2236-2-ND	500	100.50	EMVE350ADA221MJA0G
	330	JA0	0.16	450	10.0	10.0	565-2237-1-ND	2.37	3.91	9.07	565-2237-2-ND	500	100.50	EMVE350ADA331MJA0G
	470	KE0	0.22	520	12.5	13.5	565-2238-1-ND	4.92	8.11	18.83	565-2238-2-ND	200	109.00	EMVE350ARA471MKE0S
	470	LH0	0.22	650	16.0	16.5	565-2239-1-ND	4.92	8.11	18.83	565-2239-2-ND	125	68.13	EMVE350GDA471MLH0S
	1000	LH0	0.22	750	16.0	16.5	565-2240-1-ND	8.93	14.70	34.13	565-2240-2-ND	125	118.13	EMVE350GDA102MLH0S
	1000	MH0	0.22	1000	18.0	16.5	565-2241-1-ND	9.07	14.93	34.67	565-2241-2-ND	125	120.00	EMVE350GDA102MMH0S
	2200	MN0	0.24	1450	18.0	21.5	565-2242-1-ND	10.25	16.88	39.19	565-2242-2-ND	75	108.53	EMVE350GDA222MMN0S
50	0.47	D55	0.12	5.0	4.0	5.2	565-2243-1-ND	.64	1.06	2.45	565-2243-2-ND	2,000	48.00/M	EMVE500ADAR47MD55G
	1.0	D55	0.12	8.0	4.0	5.2	565-2244-1-ND	.64	1.06	2.45	565-2244-2-ND	2,000	48.00/M	EMVE500ADA1R0MD55G
	2.2	D55	0.12	12	4.0	5.2	565-2245-1-ND	.64	1.06	2.45	565-2245-2-ND	2,000	48.00/M	EMVE500ADA2R2MD55G
	3.3	D55	0.12	15	4.0	5.2	565-2246-1-ND	.64	1.06	2.46	565-2246-2-ND	2,000	48.00/M	EMVE500ADA3R3MD55G
	4.7	E55	0.12	20	5.0	5.2	565-2247-1-ND	.71	1.17	2.71	565-2247-2-ND	1,000	60.00	EMVE500ADA4R7ME55G
	10	F55	0.12	32	6.3	5.2	565-2248-1-ND	.78	1.28	2.98	565-2248-2-ND	1,000	66.00	EMVE500ADA100MF55G
	22	F60	0.12	47	6.3	5.7	565-2249-1-ND	.80	1.32	3.06	565-2249-2-ND	1,000	68.00	EMVE500ADA220MF60G
	33	F80	0.14	65	6.3	7.7	565-2250-1-ND	.92	1.51	3.51	565-2250-2-ND	900	78.30	EMVE500ADA330MF80G
	47	F80	0.14	80	6.3	7.7	565-2251-1-ND	.94	1.54	3.59	565-2251-2-ND	900	79.20	EMVE500ADA470MF80G
	100	HA0	0.14	230	8.0	10.0	565-2252-1-ND	1.38	2.27	5.26	565-2252-2-ND	500	64.50	EMVE500ADA101MHA0G
	220	JA0	0.14	375	10.0	10.0	565-2253-1-ND	2.37	3.91	9.07	565-2253-2-ND	500	100.50	EMVE500ADA221MJA0G
	330	KE0	0.18	500	12.5	13.5	565-2254-1-ND	5.40	8.89	20.65	565-2254-2-ND	200	114.40	EMVE500ARA331MKE0S
	330	LH0	0.18	600	16.0	16.5	565-2255-1-ND	5.40	8.89	20.65	565-2255-2-ND	125	71.50	EMVE500GDA331MLH0S
	470	LH0	0.18	700	16.0	16.5	565-2256-1-ND	21.68	35.70	82.88	565-2256-2-ND	125	286.87	EMVE500GDA471MLH0S
	470	MH0	0.18	750	18.0	16.5	565-2257-1-ND	9.07	14.93	34.67	—	—	—	EMVE500GDA471MMH0S
	1000	MN0	0.18	1200	18.0	21.5	565-2258-1-ND	9.74	16.04	37.24	565-2258-2-ND	75	103.13	EMVE500GDA102MMN0S
63	0.47	D55	0.12	5.0	4.0	5.2	565-2259-1-ND	.66	1.08	2.51	565-2259-2-ND	2,000	49.00/M	EMVE630ADAR47MD55G
	1.0	D55	0.12	8.0	4.0	5.2	565-2260-1-ND	.66	1.08	2.51	565-2260-2-ND	2,000	49.00/M	EMVE630ADA1R0MD55G
	2.2	D55	0.12	12	4.0	5.2	565-2261-1-ND	.66	1.08	2.51	565-2261-2-ND	2,000	49.00/M	EMVE630ADA2R2MD55G
	3.3	E55	0.12	17	5.0	5.2	565-2262-1-ND	.72	1.18	2.75	565-2262-2-ND	1,000	61.00	EMVE630ADA3R3ME55G
	4.7	F55	0.12	22	6.3	5.2	565-2263-1-ND	.78	1.29	2.99	565-2263-2-ND	1,000	66.00	EMVE630ADA4R7MF55G
	10	F55	0.12	32	6.3	5.2	565-2264-1-ND	1.62	2.66	6.18	565-2264-2-ND	1,000	106.00	EMVE630ADA100MF55G
	22	F80	0.12	58	6.3	7.7	565-2265-1-ND	.97	1.60	3.71	565-2265-2-ND	900	81.90	EMVE630ADA220MF80G
	33	HA0	0.12	140	8.0	10.0	565-2266-1-ND	1.41	2.32	5.38	565-2266-2-ND	500	66.00	EMVE630ADA330MHA0G
	47	HA0	0.12	170	8.0	10.0	565-2267-1-ND	1.41	2.32	5.38	565-2267-2-ND	500	66.00	EMVE630ADA470MHA0G
	100	JA0	0.12	310	10.0	10.0	565-2268-1-ND	2.37	3.91	9.07	565-2268-2-ND	500	100.50	EMVE630ADA101MJA0G
	220	KE0	0.14	470	12.5	13.5	565-2269-1-ND	5.32	8.75	20.32	565-2269-2-ND	200	112.60	EMVE630ARA221MKE0S
	220	LH0	0.14	560	16.0	16.5	565-2270-1-ND	5.63	9.27	21.52	565-2270-2-ND	125	74.50	EMVE630GDA221MLH0S
	330	LH0	0.14	700	16.0	16.5	565-2271-1-ND	5.74	9.45	21.94	565-2271-2-ND	125	76.00	EMVE630GDA331MLH0S
	330	MH0	0.14	750	18.0	16.5	565-2272-1-ND	9.07	14.93	34.67	565-2272-2-ND	125	120.00	EMVE630GDA331MMH0S
	470	LN0	0.14	900	16.0	21.5	565-2273-1-ND	10.01	16.48	38.26	565-2273-2-ND	75	105.98	EMVE630GDA471MLN0S
	470	MH0	0.14	900	18.0	16.5	565-2274-1-ND	9.07	14.93	34.67	565-2274-2-ND	125	120.00	EMVE630GDA471MMH0S
100	22	HA0	0.12	100	8.0	10.0	565-2275-1-ND	1.44	2.36	5.49	565-2275-2-ND	500	67.50	EMVE101ADA220MHA0G
	33	JA0	0.12	150	10.0	10.0	565-2276-1-ND	2.37	3.91	9.07	565-2276-2-ND	500	100.50	EMVE101ADA330MJA0G
	47	KE0	0.10	250	12.5	13.5	565-2277-1-ND	5.00	8.23	19.10	565-2277-2-ND	200	110.60	EMVE101ARA470MKE0S
	68	KE0	0.10	300	12.5	13.5	565-2278-1-ND	5.11	8.41	19.52	565-2278-2-ND	200	113.00	EMVE101ARA680MKE0S
	100	LH0	0.10	450	16.0	16.5	565-2279-1-ND	7.22	11.90	27.62	565-2279-2-ND	125	95.63	EMVE101GDA101MLH0S
	100	KE0	0.10	380	12.5	13.5	565-2280-1-ND	5.00	8.23	19.10	565-2280-2-ND	200	110.60	EMVE101ARA101MKE0S
	220	LN0	0.10	750	16.0	21.5	565-2281-1-ND	10.01	16.48	38.26	565-2281-2-ND	75	105.98	EMVE101GDA221MLN0S
	220	MH0	0.10	750	18.0	16.5	565-2282-1-ND	9.05	14.90	34.59	565-2282-2-ND	125	119.75	EMVE101GDA221MMH0S
	330	MN0	0.10	980	18.0	21.5	565-2283-1-ND	9.89	16.28	37.80	565-2283-2-ND	75	169.95	EMVE101GDA331MMN0S

Alchip™ MVH Series Aluminum Electrolytic Capacitors (SMT)

High Temperature 125°C

Features: • 125°C Maximum Temperature (1000 ~ 5000 Hour Life) • Solvent Proof (10-50V)
Specifications: • **Operating Temperature:** -40°C ~ 125°C • **Capacitance Tolerance:** ±20%

Case Dimensions:

Size Code	D	L	A	B	C	W	P
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H63	8.0	6.3	8.3	8.3	9.0	0.5 ~ 0.8	2.3
HA0	8.0	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10.0	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 ~ 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0 ~ 1.3	4.2
LH0	16.0	16.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
LN0	16.0	21.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
MH0	18.0	16.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5
MN0	18.0	21.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5

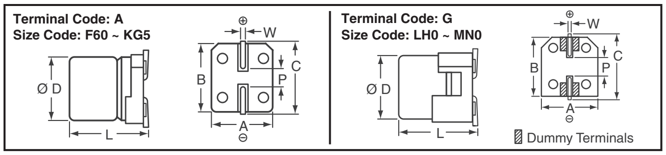

Leakage Current @ 20°C 120Hz:

Case F60 to JA0	I=0.01CV or 3µA, whichever is greater
Case KE0 to MN0	I=0.03CV or 4µA, whichever is greater

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	10	16	25	35	50	63	100
Case F60-JA0	0.24	0.20	0.16	0.14	0.14	0.12	0.10
Case KE0-MN0	0.22	0.18	0.16	0.14	0.12	0.14	0.10

Rated W.V. (VDC)	Cap. (µF)	Size Code	Maximum ESR (Ω) @ 100kHz		Rated Ripple Current (mA RMS) 100kHz	Dimensions — (mm)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
			20°C	-40°C		D	L		5	10	25		Qty.	Pricing	
10	100	F80	0.90	14.0	110	6.3	7.7	565-2284-1-ND	.97	1.60	3.71	565-2284-2-ND	900	81.90	EMVH100ADA101MF80G
	100	H63	0.90	14.0	110	8.0	6.3	565-2285-1-ND	1.25	2.06	4.78	565-2285-2-ND	1,000	94.00	EMVH100ADA101MH63G
	220	HA0	0.40	6.0	220	8.0	10.0	565-2286-1-ND	1.83	3.01	6.99	565-2286-2-ND	500	77.50	EMVH100ADA221MHA0G

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Alchip™ MVH Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Maximum ESR (Ω) @ 100kHz 20°C	-40°C	Rated Ripple Current (mA RMS) 100kHz	Dimensions — (mm) D	L	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	United Chemi-Con Part No.
10	330	JA0	0.30	4.5	296	10.0	10.0	565-2287-1-ND	3.09	5.09	11.81	565-2287-2-ND	500	123.50	EMVH100ADA331MJA0G
	1000	KE0	0.14	2.1	750	12.5	13.5	565-2288-1-ND	5.53	9.10	21.13	—	—	—	EMVH100ARA102MKE0S
	2200	LH0	0.10	1.5	1000	16.0	16.5	565-2289-1-ND	8.16	13.44	31.20	565-2289-2-ND	125	108.00	EMVH100GDA222MLH0S
	2200	MH0	0.10	1.5	1200	18.0	16.5	565-2290-1-ND	9.78	16.10	37.38	565-2290-2-ND	125	129.37	EMVH100GDA222MMH0S
	4700	MN0	0.058	0.87	1550	18.0	21.5	565-2292-1-ND	11.26	18.55	43.06	565-2292-2-ND	75	105.37	EMVH100GDA472MMN0S
16	47	F60	1.6	24.0	69	6.3	5.7	565-2293-1-ND	.95	1.56	3.62	—	—	—	EMVH160ADA470MF60G
	470	KE0	0.14	2.1	750	12.5	13.5	565-2294-1-ND	5.40	8.89	20.65	—	—	—	EMVH160ARA471MKE0S
	680	KE0	0.14	2.1	750	12.5	13.5	565-2295-1-ND	5.62	9.25	21.48	565-2295-2-ND	200	119.00	EMVH160ARA681MKE0S
	680	LH0	0.10	1.5	1000	16.0	16.5	565-2296-1-ND	8.29	13.65	31.69	565-2296-2-ND	125	109.75	EMVH160GDA681MLH0S
	1000	MH0	0.10	1.5	1200	18.0	16.5	565-2297-1-ND	9.78	16.10	37.38	565-2297-2-ND	125	129.38	EMVH160GDA102MMH0S
	2200	MH0	0.10	1.5	1200	18.0	16.5	565-2298-1-ND	9.78	16.10	37.38	565-2298-2-ND	125	129.38	EMVH160GDA222MMH0S
25	33	F60	1.6	24.0	69	6.3	5.7	565-2299-1-ND	.95	1.56	3.62	565-2299-2-ND	1,000	71.00	EMVH250ADA330MF60G
	47	F80	0.90	14.0	110	6.3	7.7	565-2300-1-ND	1.38	2.28	5.28	565-2300-2-ND	900	117.00	EMVH250ADA470MF80G
	47	H63	0.90	14.0	110	8.0	6.3	565-2301-1-ND	1.17	1.92	4.46	565-2301-2-ND	1,000	88.00	EMVH250ADA470MH63G
	100	HA0	0.40	6.0	220	8.0	10.0	565-2302-1-ND	1.83	3.02	7.01	565-2302-2-ND	500	77.50	EMVH250ADA101MHA0G
	220	JA0	0.30	4.5	296	10.0	10.0	565-2303-1-ND	3.09	5.09	11.81	565-2303-2-ND	500	123.50	EMVH250ADA221MJA0G
	330	KE0	0.14	2.1	750	12.5	13.5	565-2304-1-ND	5.54	9.13	21.20	565-2304-2-ND	200	117.40	EMVH250ARA331MKE0S
	470	KE0	0.14	2.1	750	12.5	13.5	565-2305-1-ND	5.62	9.25	21.48	565-2305-2-ND	200	119.00	EMVH250ARA471MKE0S
	470	LH0	0.10	1.5	1000	16.0	16.5	565-2306-1-ND	8.29	13.65	31.69	565-2306-2-ND	125	109.75	EMVH250GDA471MLH0S
	680	LH0	0.10	1.5	1000	16.0	16.5	565-2307-1-ND	8.29	13.65	31.69	565-2307-2-ND	125	109.75	EMVH250GDA681MLH0S
	680	MH0	0.10	1.5	1200	18.0	16.5	565-2308-1-ND	9.70	15.98	37.10	565-2308-2-ND	125	128.38	EMVH250GDA681MMH0S
	1000	MN0	0.058	0.87	1550	18.0	21.5	565-2309-1-ND	10.41	17.15	39.81	565-2309-2-ND	75	110.25	EMVH250GDA102MMN0S
35	10	F60	1.6	24.0	69	6.3	5.7	565-2310-1-ND	.87	1.44	3.34	565-2310-2-ND	1,000	66.00	EMVH350ADA100MF60G
	22	F60	1.6	24.0	69	6.3	5.7	565-2311-1-ND	.89	1.47	3.41	565-2311-2-ND	1,000	67.00	EMVH350ADA220MF60G
	33	F80	0.90	14.0	110	6.3	7.7	565-2312-1-ND	.97	1.60	3.71	565-2312-2-ND	900	81.90	EMVH350ADA330MF80G
	33	H63	0.90	14.0	110	8.0	6.3	565-2313-1-ND	1.18	1.94	4.50	565-2313-2-ND	1,000	89.00	EMVH350ADA330MH63G
	47	HA0	0.40	6.0	220	8.0	10.0	565-2314-1-ND	1.70	2.80	6.50	565-2314-2-ND	500	72.00	EMVH350ADA470MHA0G
	100	JA0	0.30	4.5	296	10.0	10.0	565-2315-1-ND	3.12	5.14	11.93	565-2315-2-ND	500	125.00	EMVH350ADA101MJA0G
	330	KE0	0.14	2.1	750	12.5	13.5	565-2316-1-ND	7.86	12.95	30.06	565-2316-2-ND	200	166.60	EMVH350ARA331MKE0S
	330	LH0	0.10	1.5	1000	16.0	16.5	565-2317-1-ND	5.62	9.25	21.48	565-2317-2-ND	125	74.38	EMVH350GDA331MLH0S
	470	KG5	0.11	1.5	900	12.5	16.0	565-2318-1-ND	6.02	9.91	23.01	565-2318-2-ND	150	95.55	EMVH350ARA471MKG5S
	470	LH0	0.10	1.5	1000	16.0	16.5	565-2319-1-ND	8.43	13.88	32.22	565-2319-2-ND	125	111.50	EMVH350GDA471MLH0S
	680	MH0	0.10	1.5	1200	18.0	16.5	565-2320-1-ND	9.78	16.10	37.38	565-2320-2-ND	125	129.38	EMVH350GDA681MMH0S
50	10	F60	2.8	42.0	51	6.3	5.7	565-2321-1-ND	.86	1.41	3.27	565-2321-2-ND	1,000	64.00	EMVH500ADA100MF60G
	22	F80	2.0	30.0	83	6.3	7.7	565-2322-1-ND	.97	1.60	3.71	565-2322-2-ND	900	81.90	EMVH500ADA220MF80G
	22	H63	1.6	30.0	83	8.0	6.3	565-2323-1-ND	1.09	1.79	4.16	565-2323-2-ND	1,000	82.00	EMVH500ADA220MH63G
	33	HA0	0.70	11.0	160	8.0	10.0	565-2324-1-ND	1.73	2.85	6.61	565-2324-2-ND	500	73.00	EMVH500ADA330MHA0G
	47	JA0	0.50	7.5	247	10.0	10.0	565-2325-1-ND	2.60	4.28	9.94	565-2325-2-ND	500	110.00	EMVH500ADA470MJA0G
	100	KE0	0.23	3.5	550	12.5	13.5	565-2326-1-ND	5.18	8.53	19.81	565-2326-2-ND	200	114.60	EMVH500ARA101MKE0S
	220	KE0	0.23	3.5	550	12.5	13.5	565-2327-1-ND	5.32	8.77	20.36	565-2327-2-ND	200	112.80	EMVH500ARA221MKE0S
	220	LH0	0.15	2.3	850	16.0	16.5	565-2328-1-ND	8.86	14.60	33.89	565-2328-2-ND	125	117.38	EMVH500GDA221MLH0S
	330	KG5	0.18	2.7	700	12.5	16.0	565-2329-1-ND	6.28	10.34	23.99	565-2329-2-ND	150	99.60	EMVH500ARA331MKG5S
	330	LH0	0.15	2.3	850	16.0	16.5	565-2330-1-ND	12.30	20.27	47.04	565-2330-2-ND	125	162.87	EMVH500GDA331MLH0S
	470	MH0	0.15	2.3	920	18.0	16.5	565-2331-1-ND	8.93	14.70	34.13	565-2331-2-ND	125	118.13	EMVH500GDA471MMH0S
63	10	F80	2.0	100	60	6.3	7.7	565-2332-1-ND	.94	1.54	3.58	565-2332-2-ND	900	79.20	EMVH630ADA100MF80G
	10	H63	2.0	110	60	8.0	6.3	565-2333-1-ND	1.00	1.64	3.81	565-2333-2-ND	1,000	75.00	EMVH630ADA100MH63G
	22	HA0	0.70	35.0	100	8.0	10.0	565-2334-1-ND	1.47	2.42	5.61	565-2334-2-ND	500	69.00	EMVH630ADA220MHA0G
	33	JA0	0.50	25.0	170	10.0	10.0	565-2335-1-ND	3.12	5.14	11.93	565-2335-2-ND	500	125.00	EMVH630ADA330MJA0G
	100	KE0	0.25	12.5	500	12.5	13.5	565-2336-1-ND	4.82	7.93	18.41	565-2336-2-ND	200	106.60	EMVH630ARA101MKE0S
	220	KG5	0.20	10.0	600	12.5	16.0	565-2337-1-ND	5.91	9.73	22.60	565-2337-2-ND	150	93.90	EMVH630ARA221MKG5S
	330	LH0	0.18	9.0	820	16.0	16.5	565-2338-1-ND	6.80	11.20	26.00	565-2338-2-ND	125	90.00	EMVH630GDA331MLH0S
	470	LN0	0.11	5.5	1100	16.0	21.5	565-2339-1-ND	13.43	22.12	51.35	565-2339-2-ND	75	142.20	EMVH630GDA471MLN0S
100	10	HA0	0.75	50.0	70	8.0	10.0	565-2340-1-ND	1.45	2.39	5.55	565-2340-2-ND	500	68.50	EMVH101ADA100MHA0G
	22	JA0	0.55	35.0	115	10.0	10.0	565-2341-1-ND	3.09	5.09	11.81	565-2341-2-ND	500	123.50	EMVH101ADA220MJA0G
	47	KE0	0.33	16.5	450	12.5	13.5	565-2342-1-ND	5.31	8.75	20.31	565-2342-2-ND	200	112.60	EMVH101ARA470MKE0S
	68	KG5	0.26	13.0	550	12.5	16.0	565-2343-1-ND	5.98	9.85	22.87	565-2343-2-ND	150	94.95	EMVH101ARA680MKG5S
	100	LH0	0.24	12.0	650	16.0	16.5	565-2344-1-ND	8.17	13.46	31.24	565-2344-2-ND	125	108.13	EMVH101GDA101MLH0S
	220	MN0	0.16	8.0	950	18.0	21.5	565-2345-1-ND	11.05	18.21	42.26	565-2345-2-ND	75	103.35	EMVH101GDA221MMN0S

Alchip™ MVK Series Aluminum Electrolytic Capacitors (SMT)

General Purpose Low Profile 105°C

Features: • General Purpose • Low Profile • Solvent Proof • 105°C Maximum Temperature (1000 ~ 2000 Hour Life)

Specifications: • Operating Temperature Range: -40°C ~ 105°C **• Capacitance Tolerance:** ±20% **• Leakage Current @ 20°C after 2 Minutes:** I=0.01CV or 3µA, whichever is greater

Case Dimensions:

Size Code	D	L	A	B	C	W	P
D55	4.0	5.2	4.3	4.3	5.1	0.5 ~ 0.8	1.0
D60	4.0	5.7	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E55	5.0	5.2	5.3	5.3	5.9	0.5 ~ 0.8	1.4
E60	5.0	5.7	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H63	8.0	6.3	8.3	8.3	9.0	0.5 ~ 0.8	2.3
HA0	8.0	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10.0	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5

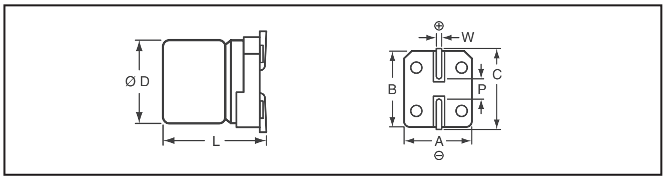

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions — (mm) D	L	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	United Chemi-Con Part No.
6.3	22	D55	0.30	21	4.0	5.2	565-2346-1-ND	.58	.96	2.22	565-2346-2-ND	2,000	44.00/M	EMVK6R3ADA220MD55G
	47	E55	0.30	36	5.0	5.2	565-2347-1-ND	.81	1.33	3.09	565-2347-2-ND	1,000	68.00	EMVK6R3ADA470ME55G
	100	F55	0.30	56	6.3	5.2	565-2348-1-ND	.85	1.40	3.25	565-2348-2-ND	1,000	64.00	EMVK6R3ADA101MF55G
	330	HA0	0.40	290	8.0	10.0	565-2349-1-ND	1.59	2.63	6.09	565-2349-2-ND	500	67.50	EMVK6R3ADA331MHA0G
	1000	JA0	0.40	410	10.0	10.0	565-2350-1-ND	2.34	3.85	8.94	565-2350-2-ND	500	99.00	EMVK6R3ADA102MJA0G
10	33	E55	0.24	34	5.0	5.2	565-2351-1-ND	.81	1.33	3.09	565-2351-2-ND	1,000	68.00	EMVK100ADA330ME55G
	100	H63	0.30	90	8.0	6.3	565-2352-1-ND	1.00	1.65	3.82	565-2352-2-ND	1,000	75.00	EMVK100ADA101MH63G
	220	HA0	0.30	180	8.0	10.0	565-2353-1-ND	1.59	2.63	6.09	565-2353-2-ND	500	67.50	EMVK100ADA221MHA0G
16	10	D55	0.20	16	4.0	5.2	565-2354-1-ND	.62	1.02	2.36	565-2354-2-ND	2,000	46.00/M	EMVK160ADA100MD55G
	22	E55	0.20	30	5.0	5.2	565-2355-1-ND	.81	1.33	3.09	565-2355-2-ND	1,000	68.00	EMVK160ADA220ME55G
	47	F55	0.20	48	6.3	5.2	565-2356-1-ND	.85	1.40	3.25	565-2356-2-ND	1,000	64.00	EMVK160ADA470MF55G
	470	JA0	0.26	460	10.0	10.0	565-2357-1-ND	2.34	3.85	8.94	565-2357-2-ND	500	99.00	EMVK160ADA471MJA0G
25	33	F55	0.16	45	6.3	5.2	565-2358-1-ND	.85	1.40	3.25	565-2358-2-ND	1,000	64.00	EMVK250ADA330MF55G
	47	H63	0.16	80	8.0	6.3	565-2359-1-ND	1.00	1.65	3.82	565-2359-2-ND	1,000	75.00	EMVK250ADA470MH63G
	100	HA0	0.16	180	8.0	10.0	565-2360-1-ND	1.59	2.63	6.09	565-2360-2-ND	500	67.50	EMVK250ADA101MHA0G
	330	JA0	0.16	450	10.0	10.0	565-2361-1-ND	2.34	3.85	8.94	565-2361-2-ND	500	99.00	EMVK250ADA331MJA0G
35	4.7	D55	0.14	15	4.0	5.2	565-2362-1-ND	.62	1.02	2.36	565-2362-2-ND	2,000	46.00/M	EMVK350ADA4R7MD55G
	10	E55	0.14	25	5.0	5.2	565-2363-1-ND	.81	1.33	3.09	565-2363-2-ND	1,000	68.00	EMVK350ADA100ME55G
	22	F55	0.14	40	6.3	5.2	565-2364-1-ND	.85	1.40	3.25	565-2364-2-ND	1,000	64.00	EMVK350ADA220MF55G
	33	H63	0.14	80	8.0	6.3	565-2365-1-ND	1.00	1.65	3.82	565-2365-2-ND	1,000	75.00	EMVK350ADA330MH63G
	220	JA0	0.14	375	10.0	10.0	565-2366-1-ND	2.34	3.85	8.94	565-2366-2-ND	500	99.00	EMVK350ADA221MJA0G

(Continued)

Alchip™ MVK Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions — (mm) D	L	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	United Chemi-Con Part No.
50	0.10	D55	0.12	1.3	4.0	5.2	565-2367-1-ND	.62	1.02	2.36	565-2367-2-ND	2,000	46.00/M	EMVK500ADAR10MD55G
	0.22	D55	0.12	2.6	4.0	5.2	565-2368-1-ND	.85	1.40	3.25	565-2368-2-ND	2,000	57.00/M	EMVK500ADAR22MD55G
	0.33	D55	0.12	3.2	4.0	5.2	565-2369-1-ND	.85	1.40	3.25	565-2369-2-ND	2,000	57.00/M	EMVK500ADAR33MD55G
	0.47	D55	0.12	3.8	4.0	5.2	565-2370-1-ND	.62	1.02	2.36	565-2370-2-ND	2,000	46.00/M	EMVK500ADAR47MD55G
	1.0	D55	0.12	5.6	4.0	5.2	565-2371-1-ND	.62	1.02	2.36	565-2371-2-ND	2,000	46.00/M	EMVK500ADA1R0MD55G
	2.2	D55	0.12	10	4.0	5.2	565-2372-1-ND	.62	1.02	2.36	565-2372-2-ND	2,000	46.00/M	EMVK500ADA2R2MD55G
	3.3	D55	0.12	14	4.0	5.2	565-2373-1-ND	.62	1.02	2.36	565-2373-2-ND	2,000	46.00/M	EMVK500ADA3R3MD55G
	4.7	E55	0.12	19	5.0	5.2	565-2374-1-ND	1.06	1.75	4.06	565-2374-2-ND	1,000	80.00	EMVK500ADA4R7ME55G
	10	F55	0.12	29	6.3	5.2	565-2375-1-ND	.85	1.40	3.25	565-2375-2-ND	1,000	64.00	EMVK500ADA100MF55G
	22	H63	0.12	70	8.0	6.3	565-2376-1-ND	1.00	1.65	3.82	565-2376-2-ND	1,000	75.00	EMVK500ADA220MH63G
	33	HA0	0.12	140	8.0	10.0	565-2377-1-ND	1.46	2.40	5.57	565-2377-2-ND	500	68.50	EMVK500ADA330MHA0G
	47	HA0	0.12	170	8.0	10.0	565-2378-1-ND	1.59	2.63	6.09	565-2378-2-ND	500	67.50	EMVK500ADA470MHA0G
	100	JA0	0.12	310	10.0	10.0	565-2379-1-ND	2.34	3.85	8.94	565-2379-2-ND	500	99.00	EMVK500ADA101MJA0G
Bi-Polar Series														
6.3	22	E60	0.35	25	5.0	5.7	565-2405-1-ND	.85	1.40	3.25	565-2405-2-ND	1,000	64.00	BMVK6R3ADA220ME60G
	47	F60	0.35	39	6.3	5.7	565-2406-1-ND	1.28	2.10	4.88	565-2406-2-ND	1,000	96.00	BMVK6R3ADA470MF60G
10	6.8	D60	0.26	13	4.0	5.7	565-2380-1-ND	.96	1.58	3.66	565-2380-2-ND	2,000	64.00/M	BMVK100ADA6R8MD60G
	15	E60	0.26	22	5.0	5.7	565-2381-1-ND	.85	1.40	3.25	565-2381-2-ND	1,000	64.00	BMVK100ADA150ME60G
	33	F60	0.26	35	6.3	5.7	565-2382-1-ND	1.28	2.10	4.88	565-2382-2-ND	1,000	96.00	BMVK100ADA330MF60G
16	4.7	D60	0.24	12	4.0	5.7	565-2383-1-ND	.96	1.58	3.66	565-2383-2-ND	2,000	64.00/M	BMVK160ADA4R7MD60G
	10	E60	0.24	20	5.0	5.7	565-2384-1-ND	.85	1.40	3.25	—	—	—	BMVK160ADA100ME60G
	22	F60	0.24	32	6.3	5.7	565-2385-1-ND	1.28	2.10	4.88	565-2385-2-ND	1,000	96.00	BMVK160ADA220MF60G
25	3.3	D60	0.20	10	4.0	5.7	565-2386-1-ND	.96	1.58	3.67	565-2386-2-ND	2,000	64.00/M	BMVK250ADA3R3MD60G
	6.8	E60	0.20	17	5.0	5.7	565-2387-1-ND	.85	1.40	3.25	565-2387-2-ND	1,000	64.00	BMVK250ADA6R8ME60G
	15	F60	0.20	28	6.3	5.7	565-2388-1-ND	1.28	2.11	4.89	565-2388-2-ND	1,000	96.00	BMVK250ADA150MF60G
35	2.2	D60	0.18	8.8	4.0	5.7	565-2389-1-ND	2.76	4.55	10.56	565-2389-2-ND	2,000	172.00/M	BMVK350ADA2R2MD60G
	4.7	E60	0.18	15	5.0	5.7	565-2390-1-ND	.85	1.40	3.25	565-2390-2-ND	1,000	64.00	BMVK350ADA4R7ME60G
50	0.10	D60	0.18	1.3	4.0	5.7	565-2392-1-ND	.97	1.59	3.69	565-2392-2-ND	2,000	65.00/M	BMVK500ADAR10MD60G
	0.15	D60	0.18	1.9	4.0	5.7	565-2393-1-ND	.96	1.58	3.66	565-2393-2-ND	2,000	64.00/M	BMVK500ADAR15MD60G
	0.22	D60	0.18	2.3	4.0	5.7	565-2394-1-ND	.97	1.59	3.69	—	—	—	BMVK500ADAR22MD60G
	0.33	D60	0.18	2.8	4.0	5.7	565-2395-1-ND	.97	1.60	3.71	565-2395-2-ND	2,000	65.00/M	BMVK500ADAR33MD60G
	0.47	D60	0.18	3.4	4.0	5.7	565-2396-1-ND	.97	1.59	3.69	565-2396-2-ND	2,000	65.00/M	BMVK500ADAR47MD60G
	0.68	D60	0.18	4.1	4.0	5.7	565-2397-1-ND	.96	1.58	3.66	565-2397-2-ND	2,000	64.00/M	BMVK500ADAR68MD60G
	1.0	D60	0.18	5.5	4.0	5.7	565-2398-1-ND	.97	1.59	3.69	565-2398-2-ND	2,000	65.00/M	BMVK500ADA1R0MD60G
	1.5	D60	0.18	7.5	4.0	5.7	565-2399-1-ND	.96	1.58	3.66	565-2399-2-ND	2,000	64.00/M	BMVK500ADA1R5MD60G
	2.2	E60	0.18	10	5.0	5.7	565-2400-1-ND	.85	1.40	3.25	565-2400-2-ND	1,000	64.00	BMVK500ADA2R2ME60G
	3.3	E60	0.18	13	5.0	5.7	565-2401-1-ND	.85	1.40	3.25	565-2401-2-ND	1,000	64.00	BMVK500ADA3R3ME60G
	4.7	F60	0.18	16	6.3	5.7	565-2402-1-ND	1.28	2.10	4.88	—	—	—	BMVK500ADA4R7MF60G
	6.8	F60	0.18	20	6.3	5.7	565-2403-1-ND	1.28	2.10	4.88	565-2403-2-ND	1,000	96.00	BMVK500ADA6R8MF60G

Alchip™ MVY Series Aluminum Electrolytic Capacitors (SMT)

General Purpose 105°C

Features: • Low Impedance • Solvent Proof (6.3-63V) • 105°C Maximum Temperature (1000 ~ 5000 Hour Life)
Specifications: • **Operating Temperature Range:** -55°C ~ 105°C (6.3-63V),-40°C ~ 105°C (100V) • **Capacitance Tolerance:** ±20% • **Leakage Current:** @ 20°C after 2 minutes: I=0.01CV or 3µA, whichever is greater

Case Dimensions:

Size Code	D	L	A	B	C	W	P
D55	4	5.2	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 ~ 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0 ~ 1.3	4.2
LH0	16	16.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
LN0	16	21.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
MH0	18	16.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5
MN0	18	21.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5

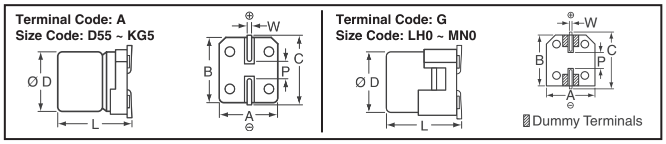

Dissipation Factor @ 20°C 120 Hz:

Rated Voltage (Vdc)		6.3V	10V	16V	25V	35V	50V	63V	100V
tan δ (Max.)	D55 to F80	0.24	0.20	0.16	0.14	0.12	0.12	—	—
	HA0 to JA0	0.28	0.24	0.20	0.16	0.14	0.12	—	—
	KE0 to MN0	0.26	0.22	0.18	0.16	0.14	0.12	0.14	0.10

When nominal capacitance exceeds 1,000µF, add 0.02 to the value above for each 1,000µF increase.

Rated W.V. (VDC)	Cap. (µF)	Size Code	Max. Impedance (Ω) @ 100kHz 20°C	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions — (mm) D	L	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	United Chemi-Con Part No.
6.3	22	D55	3.0	60	4.0	5.2	565-2407-1-ND	.64	1.05	2.44	565-2407-2-ND	2,000	48.00/M	EMVY6R3ADA220MD55G
	33	E55	1.8	95	5.0	5.2	565-2408-1-ND	.85	1.40	3.25	565-2408-2-ND	1,000	64.00	EMVY6R3ADA330ME55G
	47	E55	1.8	95	5.0	5.2	565-2409-1-ND	.85	1.40	3.25	565-2409-2-ND	1,000	64.00	EMVY6R3ADA470ME55G
	100	F55	1.0	140	6.3	5.2	565-2410-1-ND	.85	1.40	3.25	565-2410-2-ND	1,000	64.00	EMVY6R3ADA101MF55G
	220	F55	1.0	140	6.3	5.2	565-2411-1-ND	.85	1.40	3.25	565-2411-2-ND	1,000	64.00	EMVY6R3ADA221MF55G
	330	F80	0.34	280	6.3	7.7	565-2412-1-ND	1.06	1.75	4.06	565-2412-2-ND	900	90.00	EMVY6R3ADA331MF80G
	470	HA0	0.30	450	8.0	10.0	565-2413-1-ND	1.65	2.72	6.32	565-2413-2-ND	500	70.00	EMVY6R3ADA471MHA0G
	680	HA0	0.30	450	8.0	10.0	565-2414-1-ND	1.74	2.87	6.66	565-2414-2-ND	500	74.00	EMVY6R3ADA681MHA0G
	1000	HA0	0.30	450	8.0	10.0	565-2415-1-ND	1.70	2.80	6.50	565-2415-2-ND	500	72.00	EMVY6R3ADA102MHA0G
	1500	JA0	0.15	670	10.0	10.0	565-2416-1-ND	2.76	4.55	10.56	565-2416-2-ND	500	110.50	EMVY6R3ADA152MJA0G
	2200	KE0	0.070	820	12.5	13.5	565-2417-1-ND	5.43	8.95	20.78	565-2417-2-ND	200	115.00	EMVY6R3ARA222MKE0S
	3300	KG5	0.060	950	12.5	16.0	565-2419-1-ND	5.76	9.49	22.03	565-2419-2-ND	150	91.50	EMVY6R3ARA332MKG5S
	3300	MH0	0.054	1350	18.0	16.5	565-2420-1-ND	5.76	9.49	22.03	565-2420-2-ND	125	76.25	EMVY6R3GDA332MMH0S
	4700	LN0	0.038	1630	16.0	21.5	565-2421-1-ND	8.50	14.00	32.50	565-2421-2-ND	75	90.00	EMVY6R3GDA472MLN0S
	6800	MN0	0.038	1750	18.0	21.5	565-2424-1-ND	10.63	17.50	40.63	565-2424-2-ND	75	99.38	EMVY6R3GDA682MMN0S
	8200	MN0	0.038	1750	18.0	21.5	565-2425-1-ND	11.02	18.14	42.12	565-2425-2-ND	75	103.05	EMVY6R3GDA822MMN0S
10	22	E55	1.8	95	5.0	5.2	565-2426-1-ND	.85	1.40	3.25	565-2426-2-ND	1,000	64.00	EMVY100ADA220ME55G
	33	E55	1.8	95	5.0	5.2	565-2427-1-ND	.85	1.40	3.25	565-2427-2-ND	1,000	64.00	EMVY100ADA330ME55G
	47	F55	1.0	140	6.3	5.2	565-2428-1-ND	.85	1.40	3.25	565-2428-2-ND	1,000	64.00	EMVY100ADA470MF55G
	100	F55	1.0	140	6.3	5.2	565-2429-1-ND	.90	1.48	3.43	—	—	—	EMVY100ADA101MF55G
	220	F80	0.34	280	6.3	7.7	565-2430-1-ND	1.06	1.75	4.06	565-2430-2-ND	900	90.00	EMVY100ADA221MF80G
	330	HA0	0.30	450	8.0	10.0	565-2431-1-ND	1.50	2.47	5.74	565-2431-2-ND	500	63.50	EMVY100ADA331MHA0G
	470	HA0	0.30	450	8.0	10.0	565-2432-1-ND	1.50	2.47	5.74	565-2432-2-ND	500	63.50	EMVY100ADA471MHA0G
	680	JA0	0.15	670	10.0	10.0	565-2433-1-ND	2.87	4.73	10.98	565-2433-2-ND	500	115.00	EMVY100ADA681MJA0G
	1000	JA0	0.15	670	10.0	10.0	565-2434-1-ND	2.76	4.55	10.56	565-2434-2-ND	500	110.50	EMVY100ADA102MJA0G
	2200	KG5	0.060	950	12.5	16.0	565-2435-1-ND	5.65	9.31	21.61	565-2435-2-ND	150	89.85	EMVY100ARA222MKG5S
	6800	MN0	0.038	1750	18.0	21.5	565-2441-1-ND	11.09	18.27	42.41	565-2441-2-ND	75	103.72	EMVY100GDA682MMN0S
16	10	D55	3.0	60	4.0	5.2	565-2442-1-ND	.66	1.09	2.54	565-2442-2-ND	2,000	50.00/M	EMVY160ADA100MD55G
	22	E55	1.8	95	5.0	5.2	565-2443-1-ND	.85	1.40	3.25	565-2443-2-ND	1,000	64.00	EMVY160ADA220ME55G
	33	F55	1.0	140	6.3	5.2	565-2444-1-ND	.94	1.54	3.59	565-2444-2-ND	1,000	71.00	EMVY160ADA330MF55G
	47	F55	1.0	140	6.3	5.2	565-2445-1-ND	.85	1.40	3.25	565-2445-2-ND	1,000	64.00	EMVY160ADA470MF55G
	100	F55	1.0	140	6.3	5.2	565-2446-1-ND	.85	1.40	3.25	565-2446-2-ND	1,000	64.00	EMVY160ADA101MF55G

(Continued)

Alchip™ MVY Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Max. Impedance (Ω) @ 100kHz 20°C	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions — (mm)		Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		United Chemi-Con
					D	L	Part No.	5	10	25	Part No.	Qty.	Pricing	Part No.
16	220	F80	0.34	280	6.3	7.7	565-2447-1-ND	1.06	1.75	4.06	565-2447-2-ND	900	90.00	EMVY160ADA221MF80G
	330	HA0	0.30	450	8.0	10.0	565-2448-1-ND	1.49	2.45	5.69	565-2448-2-ND	500	63.00	EMVY160ADA331MHA0G
	470	HA0	0.30	450	8.0	10.0	565-2449-1-ND	1.70	2.80	6.50	565-2449-2-ND	500	72.00	EMVY160ADA471MHA0G
	680	JA0	0.15	670	10.0	10.0	565-2450-1-ND	2.87	4.73	10.98	565-2450-2-ND	500	115.00	EMVY160ADA681MJA0G
	1000	KE0	0.070	820	12.5	13.5	565-2451-1-ND	5.29	8.71	20.23	565-2451-2-ND	200	117.00	EMVY160ARA102MKE0S
	1000	LH0	0.054	1260	16.0	16.5	565-2452-1-ND	8.50	14.00	32.50	565-2452-2-ND	125	112.50	EMVY160GDA102MLH0S
	2200	LH0	0.054	1260	16.0	16.5	565-2453-1-ND	7.84	12.92	29.98	565-2453-2-ND	125	103.75	EMVY160GDA222MLH0S
	4700	MN0	0.038	1750	18.0	21.5	565-2457-1-ND	10.87	17.91	41.57	565-2457-2-ND	75	101.70	EMVY160GDA472MMN0S
25	10	E55	1.8	95	5.0	5.2	565-2458-1-ND	.81	1.33	3.08	565-2458-2-ND	1,000	68.00	EMVY250ADA100ME55G
	22	F55	1.0	140	6.3	5.2	565-2459-1-ND	.85	1.40	3.25	565-2459-2-ND	1,000	64.00	EMVY250ADA220MF55G
	33	F55	1.0	140	6.3	5.2	565-2460-1-ND	.85	1.40	3.25	565-2460-2-ND	1,000	64.00	EMVY250ADA330MF55G
	47	F55	1.0	140	6.3	5.2	565-2461-1-ND	.85	1.40	3.25	565-2461-2-ND	1,000	64.00	EMVY250ADA470MF55G
	100	F80	0.34	280	6.3	7.7	565-2462-1-ND	1.42	2.35	5.44	565-2462-2-ND	900	120.60	EMVY250ADA101MF80G
	220	HA0	0.30	450	8.0	10.0	565-2463-1-ND	1.50	2.47	5.74	565-2463-2-ND	500	63.50	EMVY250ADA221MHA0G
	330	HA0	0.30	450	8.0	10.0	565-2464-1-ND	1.70	2.80	6.50	565-2464-2-ND	500	72.00	EMVY250ADA331MHA0G
	470	JA0	0.15	670	10.0	10.0	565-2465-1-ND	2.76	4.55	10.56	565-2465-2-ND	500	110.50	EMVY250ADA471MJA0G
	1000	LH0	0.054	1260	18.0	16.5	565-2466-5-ND	7.48	13.10	28.06	—	—	—	EMVY250GDA102MLH0S
	1000	MH0	0.054	1350	18.0	16.5	565-2467-1-ND	8.50	14.00	32.50	565-2467-2-ND	125	112.50	EMVY250GDA102MMH0S
	2200	LN0	0.038	1630	16.0	21.5	565-2468-1-ND	13.26	21.84	50.70	565-2468-2-ND	75	140.40	EMVY250GDA222MLN0S
	2200	MN0	0.038	1750	18.0	21.5	565-2469-1-ND	10.63	17.50	40.63	565-2469-2-ND	75	99.38	EMVY250GDA222MMN0S
	3300	MN0	0.038	1750	18.0	21.5	565-2470-1-ND	10.63	17.50	40.63	565-2470-2-ND	75	99.38	EMVY250GDA332MMN0S
35	4.7	D55	3.0	60	4.0	5.2	565-2471-1-ND	.66	1.09	2.54	565-2471-2-ND	2,000	50.00/M	EMVY350ADA4R7MD55G
	10	E55	1.8	95	5.0	5.2	565-2472-1-ND	.85	1.40	3.25	565-2472-2-ND	1,000	64.00	EMVY350ADA100ME55G
	22	F55	1.0	140	6.3	5.2	565-2473-1-ND	.85	1.40	3.25	565-2473-2-ND	1,000	64.00	EMVY350ADA220MF55G
	33	F55	1.0	140	6.3	5.2	565-2474-1-ND	.85	1.40	3.25	565-2474-2-ND	1,000	64.00	EMVY350ADA330MF55G
	47	F55	1.0	140	6.3	5.2	565-2475-1-ND	.85	1.40	3.25	565-2475-2-ND	1,000	64.00	EMVY350ADA470MF55G
	68	F80	0.34	280	6.3	7.7	565-2476-1-ND	1.06	1.75	4.06	565-2476-2-ND	900	90.00	EMVY350ADA680MF80G
	100	HA0	0.30	450	8.0	10.0	565-2477-1-ND	1.50	2.47	5.74	565-2477-2-ND	500	63.50	EMVY350ADA101MHA0G
	220	HA0	0.30	450	8.0	10.0	565-2478-1-ND	1.50	2.47	5.74	565-2478-2-ND	500	63.50	EMVY350ADA221MHA0G
	330	JA0	0.15	670	10.0	10.0	565-2479-1-ND	1.70	2.80	6.50	565-2479-2-ND	500	72.00	EMVY350ADA331MJA0G
	470	KE0	0.070	820	12.5	13.5	565-2480-1-ND	5.53	9.10	21.13	565-2480-2-ND	200	112.60	EMVY350ARA471MKE0S
	470	LH0	0.054	1260	16.0	16.5	565-2482-1-ND	7.81	12.86	29.85	565-2482-2-ND	125	103.38	EMVY350GDA471MLH0S
	1000	LH0	0.054	1260	16.0	16.5	565-2483-1-ND	8.93	14.70	34.13	565-2483-2-ND	125	118.13	EMVY350GDA102MMH0S
	1000	MH0	0.054	1350	18.0	16.5	565-2484-1-ND	8.10	13.34	30.96	565-2484-2-ND	125	107.13	EMVY350GDA102MMH0S
	2200	MN0	0.038	1750	18.0	21.5	565-2485-1-ND	14.11	23.24	53.95	565-2485-2-ND	75	165.00	EMVY350GDA222MMN0S
50	1.0	D55	5.0	30	4.0	5.2	565-2486-1-ND	.66	1.09	2.54	565-2486-2-ND	2,000	50.00/M	EMVY500ADA1R0MD55G
	2.2	D55	5.0	30	4.0	5.2	565-2487-1-ND	.74	1.23	2.84	565-2487-2-ND	2,000	56.00/M	EMVY500ADA2R2MD55G
	3.3	D55	5.0	30	4.0	5.2	565-2488-1-ND	.72	1.19	2.76	565-2488-2-ND	2,000	54.00/M	EMVY500ADA3R3MD55G
	4.7	E55	3.0	50	5.0	5.2	565-2489-1-ND	.85	1.40	3.25	—	—	—	EMVY500ADA4R7ME55G
	10	F55	2.0	70	6.3	5.2	565-2490-1-ND	.85	1.40	3.25	565-2490-2-ND	1,000	64.00	EMVY500ADA100MF55G
	22	F55	2.0	70	6.3	5.2	565-2491-1-ND	.85	1.40	3.25	565-2491-2-ND	1,000	64.00	EMVY500ADA220MF55G
	33	F80	0.60	170	6.3	7.7	565-2492-1-ND	1.06	1.75	4.06	565-2492-2-ND	900	90.00	EMVY500ADA330MF80G
	47	F80	0.60	170	6.3	7.7	565-2493-1-ND	1.06	1.75	4.06	565-2493-2-ND	900	90.00	EMVY500ADA470MF80G
	68	HA0	0.60	300	8.0	10.0	565-2494-1-ND	1.72	2.84	6.59	565-2494-2-ND	500	73.00	EMVY500ADA680MHA0G
	100	HA0	0.60	300	8.0	10.0	565-2495-1-ND	1.50	2.47	5.74	565-2495-2-ND	500	63.50	EMVY500ADA101MHA0G
	220	JA0	0.30	500	10.0	10.0	565-2496-1-ND	2.98	4.90	11.38	565-2496-2-ND	500	119.00	EMVY500ADA221MJA0G
	330	KE0	0.11	650	12.5	13.5	565-2497-1-ND	4.46	7.35	17.06	565-2497-2-ND	200	98.80	EMVY500ARA331MKE0S
	330	LH0	0.087	900	16.0	16.5	565-2498-1-ND	8.50	14.00	32.50	565-2498-2-ND	125	112.50	EMVY500GDA331MLH0S
	470	LH0	0.087	900	16.0	16.5	565-2499-1-ND	7.88	12.98	30.13	565-2499-2-ND	125	104.25	EMVY500GDA471MLH0S
	1000	MN0	0.050	1520	18.0	21.5	565-2501-1-ND	10.40	17.12	39.75	565-2501-2-ND	75	110.10	EMVY500GDA102MMN0S
63	68	KE0	0.19	500	12.5	13.5	565-2502-1-ND	5.18	8.53	19.81	565-2502-2-ND	200	114.60	EMVY630ARA680MKE0S
	100	KE0	0.19	500	12.5	13.5	565-2503-1-ND	5.10	8.40	19.50	565-2503-2-ND	200	112.80	EMVY630ARA101MKE0S
	220	KE0	0.19	500	12.5	13.5	565-2504-1-ND	5.10	8.40	19.50	565-2504-2-ND	200	112.80	EMVY630ARA221MKE0S
	220	LH0	0.12	845	16.0	16.5	565-2505-1-ND	7.01	11.55	26.81	565-2505-2-ND	125	92.88	EMVY630GDA221MLH0S
	330	LH0	0.12	845	16.0	16.5	565-2506-1-ND	7.01	11.55	26.81	565-2506-2-ND	125	92.88	EMVY630GDA331MLH0S
	470	LN0	0.085	1100	16.0	21.5	565-2507-1-ND	8.17	13.46	31.24	565-2507-2-ND	75	86.48	EMVY630GDA471MLN0S
	470	MH0	0.12	905	18.0	16.5	565-2508-1-ND	14.49	23.87	55.41	565-2508-2-ND	125	191.87	EMVY630GDA471MMH0S
100	47	KE0	0.33	450	12.5	13.5	565-2509-1-ND	4.78	7.87	18.27	565-2509-2-ND	200	105.60	EMVY101ARA470MKE0S
	68	KE0	0.33	450	12.5	13.5	565-2510-1-ND	5.10	8.40	19.50	565-2510-2-ND	200	112.80	EMVY101ARA680MKE0S
	100	KE0	0.33	450	12.5	13.5	565-2511-1-ND	5.31	8.75	20.31	565-2511-2-ND	200	112.60	EMVY101ARA101MKE0S
	100	LH0	0.24	650	16.0	16.5	565-2512-1-ND	7.40	12.20	28.31	565-2512-2-ND	125	98.00	EMVY101GDA101MLH0S
	220	LN0	0.16	900	16.0	21.5	565-2513-1-ND	8.50	14.00	32.49	565-2513-2-ND	75	90.00	EMVY101GDA221MLN0S
	220	MH0	0.24	700	18.0	16.5	565-2514-1-ND	9.01	14.84	34.46	565-2514-2-ND	125	119.25	EMVY101GDA221MMH0S
	330	MN0	0.16	950	18.0	21.5	565-2515-1-ND	12.41	20.44	47.45	565-2515-2-ND	75	116.10	EMVY101GDA331MMN0S

Alchip™ MZA Series Aluminum Electrolytic Capacitors (SMT)

Very Low Impedance 105°C

Features: • Very Low Impedance • Solvent Proof • 105°C Maximum Temperature (2000 Hour Life)

Specifications: • **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** @ 20°C after 2 minutes: I=0.01CV or 3µA, whichever is greater

Case Dimensions:

Size Code	D	L	A	B	C	W	P
D61	4	5.8	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E61	5	5.8	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F61	6.3	5.8	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5

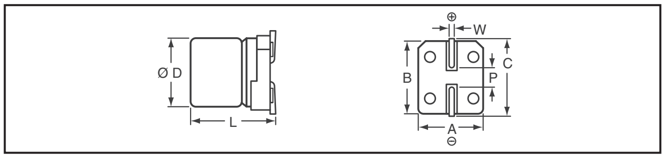

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Max. Impedance (Ω) @ 100kHz 20°C	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions — (mm)		Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		United Chemi-Con
						D	L	Part No.	5	10	25	Part No.	Qty.	Pricing	Part No.
6.3	22	D61	0.26	1.35	90	4.0	5.8	565-2516-1-ND	.85	1.40	3.25	565-2516-2-ND	2,000	57.00/M	EMZA6R3ADA220MD61G
	47	D61	0.26	1.35	90	4.0	5.8	565-2517-1-ND	.85	1.40	3.25	565-2517-2-ND	2,000	57.00/M	EMZA6R3ADA470MD61G
	47	E61	0.26	0.70	160	5.0	5.8	565-2518-1-ND	.87	1.43	3.32	565-2518-2-ND	1,000	65.00	EMZA6R3ADA470ME61G
	100	E61	0.26	0.70	160	5.0	5.8	565-2519-1-ND	.94	1.54	3.59	565-2519-2-ND	1,000	71.00	EMZA6R3ADA101ME61G
	100	F61	0.26	0.36	240	6.3	5.8	565-2520-1-ND	1.05	1.74	4.03	565-2520-2-ND	1,000	79.00	EMZA6R3ADA101MF61G
	220	F61	0.26	0.36	240	6.3	5.8	565-2521-1-ND	1.05	1.74	4.03	565-2521-2-ND	1,000	79.00	EMZA6R3ADA221MF61G
	330	F80	0.26	0.34	280	6.3	7.7	565-2522-1-ND	1.32	2.17	5.04	565-2522-2-ND	900	111.60	EMZA6R3ADA331MF80G
	470	HA0	0.26	0.16	600	8.0	10.0	565-2523-1-ND	2.04	3.37	7.82	565-2523-2-ND	500	86.50	EMZA6R3ADA471MHA0G
	1000	HA0	0.26	0.16	600	8.0	10.0	565-2524-1-ND	2.04	3.37	7.82	565-2524-2-ND	500	86.50	EMZA6R3ADA102MHA0G
	1500	JA0	0.26	0.08	850	10.0	10.0	565-2525-1-ND	3.32	5.47	12.70	565-2525-2-ND	500	133.00	EMZA6R3ADA152MJA0G
10	22	D61	0.19	1.35	90	4.0	5.8	565-2526-1-ND	.85	1.40	3.25	565-2526-2-ND	2,000	57.00/M	EMZA100ADA220MD61G
	33	D61	0.19	1.35	90	4.0	5.8	565-2527-1-ND	.85	1.40	3.25	565-2527-2-ND	2,000	57.00/M	EMZA100ADA330MD61G
	33	E61	0.19	0.70	160	5.0	5.8	565-2528-1-ND	.94	1.54	3.59	565-2528-2-ND	1,000	71.00	EMZA100ADA330ME61G

(Continued)

Alchip™ MZA Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Max. Impedance (Ω) @ 100kHz 20°C	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions — (mm) D	L	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	United Chemi-Con Part No.
10	220	F80	0.19	0.34	280	6.3	7.7	565-2529-1-ND	1.32	2.17	5.04	565-2529-2-ND	900	111.60	EMZA100ADA221MF80G
	330	HA0	0.19	0.16	600	8.0	10.0	565-2530-1-ND	2.04	3.37	7.82	565-2530-2-ND	500	86.50	EMZA100ADA331MHA0G
	470	HA0	0.19	0.16	600	8.0	10.0	565-2531-1-ND	2.04	3.37	7.82	565-2531-2-ND	500	86.50	EMZA100ADA471MHA0G
	680	HA0	0.19	0.16	600	8.0	10.0	565-2532-1-ND	2.04	3.37	7.82	565-2532-2-ND	500	86.50	EMZA100ADA681MHA0G
	1000	JA0	0.19	0.08	850	10.0	10.0	565-2533-1-ND	3.32	5.47	12.70	565-2533-2-ND	500	133.00	EMZA100ADA102MJA0G
16	10	D61	0.16	1.35	90	4.0	5.8	565-2534-1-ND	.85	1.40	3.25	565-2534-2-ND	2,000	57.00/M	EMZA160ADA100MD61G
	22	D61	0.16	1.35	90	4.0	5.8	565-2535-1-ND	.85	1.40	3.25	565-2535-2-ND	2,000	57.00/M	EMZA160ADA220MD61G
	22	E61	0.16	0.70	160	5.0	5.8	565-2536-1-ND	.94	1.54	3.59	565-2536-2-ND	1,000	71.00	EMZA160ADA220ME61G
	47	E61	0.16	0.70	160	5.0	5.8	565-2537-1-ND	.94	1.54	3.59	565-2537-2-ND	1,000	71.00	EMZA160ADA470ME61G
	47	F61	0.16	0.36	240	6.3	5.8	565-2538-1-ND	1.05	1.74	4.03	565-2538-2-ND	1,000	79.00	EMZA160ADA470MF61G
	100	F61	0.16	0.36	240	6.3	5.8	565-2539-1-ND	1.05	1.74	4.03	565-2539-2-ND	1,000	79.00	EMZA160ADA101MF61G
	220	F80	0.16	0.34	280	6.3	7.7	565-2540-1-ND	1.32	2.17	5.04	565-2540-2-ND	900	111.60	EMZA160ADA221MF80G
	330	HA0	0.16	0.16	600	8.0	10.0	565-2541-1-ND	2.72	4.48	10.40	565-2541-2-ND	500	115.00	EMZA160ADA331MHA0G
	470	HA0	0.16	0.16	600	8.0	10.0	565-2542-1-ND	2.04	3.37	7.82	565-2542-2-ND	500	86.50	EMZA160ADA471MHA0G
	680	JA0	0.16	0.08	850	10.0	10.0	565-2543-1-ND	3.08	5.08	11.78	565-2543-2-ND	500	123.50	EMZA160ADA681MJA0G
25	10	D61	0.14	1.35	90	4.0	5.8	565-2544-1-ND	.85	1.40	3.25	565-2544-2-ND	2,000	57.00/M	EMZA250ADA100MD61G
	22	E61	0.14	0.70	160	5.0	5.8	565-2545-1-ND	.94	1.54	3.59	565-2545-2-ND	1,000	71.00	EMZA250ADA220ME61G
	33	E61	0.14	0.70	160	5.0	5.8	565-2546-1-ND	.94	1.54	3.59	565-2546-2-ND	1,000	71.00	EMZA250ADA330ME61G
	33	F61	0.14	0.36	240	6.3	5.8	565-2547-1-ND	1.05	1.74	4.03	565-2547-2-ND	1,000	79.00	EMZA250ADA330MF61G
	47	F61	0.14	0.36	240	6.3	5.8	565-2548-1-ND	1.06	1.75	4.06	565-2548-2-ND	1,000	80.00	EMZA250ADA470MF61G
	100	F80	0.14	0.34	280	6.3	7.7	565-2549-1-ND	1.28	2.10	4.88	565-2549-2-ND	900	108.00	EMZA250ADA101MF80G
	220	HA0	0.14	0.16	600	8.0	10.0	565-2550-1-ND	2.04	3.37	7.82	565-2550-2-ND	500	86.50	EMZA250ADA221MHA0G
	330	HA0	0.14	0.16	600	8.0	10.0	565-2551-1-ND	2.04	3.37	7.82	565-2551-2-ND	500	86.50	EMZA250ADA331MHA0G
	470	JA0	0.14	0.08	850	10.0	10.0	565-2552-1-ND	3.32	5.47	12.70	565-2552-2-ND	500	133.00	EMZA250ADA471MJA0G
35	4.7	D61	0.12	1.35	90	4.0	5.8	565-2553-1-ND	.85	1.40	3.25	565-2553-2-ND	2,000	57.00/M	EMZA350ADA4R7MD61G
	10	D61	0.12	1.35	90	4.0	5.8	565-2554-1-ND	.85	1.40	3.25	565-2554-2-ND	2,000	57.00/M	EMZA350ADA100MD61G
	10	E61	0.12	0.70	160	5.0	5.8	565-2555-1-ND	.87	1.43	3.31	565-2555-2-ND	1,000	65.00	EMZA350ADA100ME61G
	22	E61	0.12	0.70	160	5.0	5.8	565-2556-1-ND	.87	1.43	3.31	565-2556-2-ND	1,000	65.00	EMZA350ADA220ME61G
	33	F61	0.12	0.36	240	6.3	5.8	565-2557-1-ND	1.05	1.74	4.03	565-2557-2-ND	1,000	79.00	EMZA350ADA330MF61G
	47	F61	0.12	0.36	240	6.3	5.8	565-2558-1-ND	.98	1.61	3.74	565-2558-2-ND	1,000	74.00	EMZA350ADA470MF61G
	100	F80	0.12	0.34	280	6.3	7.7	565-2559-1-ND	1.32	2.17	5.04	565-2559-2-ND	900	111.60	EMZA350ADA101MF80G
	100	HA0	0.12	0.16	600	8.0	10.0	565-2560-1-ND	2.04	3.37	7.82	565-2560-2-ND	500	86.50	EMZA350ADA101MHA0G
	220	HA0	0.12	0.16	600	8.0	10.0	565-2561-1-ND	1.91	3.15	7.31	565-2561-2-ND	500	81.00	EMZA350ADA221MHA0G
	330	JA0	0.12	0.08	850	10.0	10.0	565-2562-1-ND	3.32	5.47	12.70	565-2562-2-ND	500	133.00	EMZA350ADA331MJA0G
50	4.7	D61	0.10	2.90	60	4.0	5.8	565-2563-1-ND	.85	1.40	3.25	565-2563-2-ND	2,000	57.00/M	EMZA500ADA4R7MD61G
	10	E61	0.10	1.52	85	5.0	5.8	565-2564-1-ND	.94	1.54	3.59	565-2564-2-ND	1,000	71.00	EMZA500ADA100ME61G
	10	F61	0.10	0.88	165	6.3	5.8	565-2565-1-ND	.98	1.61	3.74	565-2565-2-ND	1,000	74.00	EMZA500ADA100MF61G
	22	F61	0.10	0.88	165	6.3	5.8	565-2566-1-ND	1.06	1.75	4.06	565-2566-2-ND	1,000	80.00	EMZA500ADA220MF61G
	33	F80	0.10	0.68	195	6.3	7.7	565-2567-1-ND	1.32	2.17	5.04	565-2567-2-ND	900	111.60	EMZA500ADA330MF61G
	47	F80	0.10	0.68	195	6.3	7.7	565-2568-1-ND	1.32	2.17	5.04	565-2568-2-ND	900	111.60	EMZA500ADA470MF80G
	100	HA0	0.10	0.34	350	8.0	10.0	565-2569-1-ND	2.04	3.37	7.82	565-2569-2-ND	500	86.50	EMZA500ADA101MHA0G
	220	JA0	0.10	0.18	670	10.0	10.0	565-2570-1-ND	3.32	5.47	12.70	565-2570-2-ND	500	133.00	EMZA500ADA221MJA0G

NPCAP™ PS/PSA Series Polymer Aluminum Electrolytic Capacitors (Radial Lead)

PS: Ultra - Low ESR; PSA: Super - Low ESR

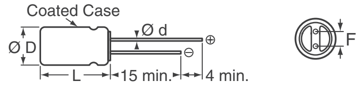

Features:

- Solid functional polymer aluminum • High temperature resistance • 105°C maximum temperature

Specifications:

- **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** I = 0.2CV maximum after 2 minutes @ 20°C

Rated W. V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @ 105°C 100kHz	Maximum ESR mΩ @ 100 to 300kHz 20°C	Dimensions — (mm) ØD	L	F	Ød	Digi-Key Part No.	Price Each 1	10	100	United Chemi-Con Part No.
							PS Series — Ultra - Low ESR					
2.5	680	5230	10	8.0	11.5	3.5	0.6	565-3033-ND	.77	.58	.43	APS-2R5ELL681MHB5S
	1500	5500	8	10.0	12.5	5.0	0.6	565-3034-ND	1.12	.84	.63	APS-2R5ELL152MJC5S
4	560	5230	10	8.0	11.5	3.5	0.6	565-3035-ND	.73	.55	.40	APS-4R0ELL561MHB5S
	820	5500	8	10.0	12.5	5.0	0.6	565-3036-ND	1.04	.78	.59	APS-4R0ELL821MJC5S
6.3	390	4770	12	8.0	11.5	3.5	0.6	565-3037-ND	.73	.55	.40	APS-6R3ELL391MHB5S
	680	5500	10	10.0	12.5	5.0	0.6	565-3038-ND	1.09	.82	.62	APS-6R3ELL681MJC5S
10	270	4420	14	8.0	11.5	3.5	0.6	565-3039-ND	.77	.58	.43	APS-100ELL271MHB5S
	470	5300	12	10.0	12.5	5.0	0.6	565-3040-ND	1.09	.82	.62	APS-100ELL471MJC5S
16	180	4360	16	8.0	11.5	3.5	0.6	565-3041-ND	.75	.56	.41	APS-160ELL181MHB5S
	330	5050	14	10.0	12.5	5.0	0.6	565-3042-ND	1.09	.82	.62	APS-160ELL331MJC5S
							PSA Series — Super - Low ESR					
2.5	390	3160	20	6.3	10.5	2.5	0.5	565-3055-ND	.74	.55	.41	APSA2R5ELL391MFA5G
	680	5580	7	8.0	11.5	3.5	0.8	565-3056-ND	.77	.58	.43	APSA2R5ELL681MHB5S
	820	5580	7	8.0	11.5	3.5	0.8	565-3057-ND	.77	.58	.43	APSA2R5ELL821MHB5S
	1000	5860	6	10.0	11.5	5.0	0.8	565-3054-ND	1.09	.82	.62	APSA2R5ELL102MJB5S
4	270	3160	20	6.3	10.5	2.5	0.5	565-3058-ND	.74	.55	.41	APSA4R0ELL271MFA5G
	390	3300	24	6.3	10.5	2.5	0.5	565-3059-ND	.74	.55	.41	APSA4R0ELL391MFA5G
	560	5580	7	8.0	11.5	3.5	0.8	565-3060-ND	.77	.58	.43	APSA4R0ELL561MHB5S
	820	5860	6	10.0	11.5	5.0	0.8	565-3061-ND	1.08	.81	.61	APSA4R0ELL821MJB5S
6.3	220	3160	20	6.3	10.5	2.5	0.5	565-3062-ND	.74	.55	.41	APSA6R3ELL221MFA5G
	330	3190	28	6.3	10.5	2.5	0.5	565-3063-ND	.74	.55	.41	APSA6R3ELL331MFA5G
	390	5080	8	8.0	11.5	3.5	0.8	565-3064-ND	.77	.58	.43	APSA6R3ELL391MHB5S
	680	5860	7	10.0	11.5	5.0	0.8	565-3065-ND	1.09	.82	.62	APSA6R3ELL681MJB5S
10	47	2820	25	6.3	10.5	2.5	0.5	565-3051-ND	.74	.55	.41	APSA100ELL470MFA5G
	68	2820	25	6.3	10.5	2.5	0.5	565-3052-ND	.74	.55	.41	APSA100ELL680MFA5G
	100	2820	25	6.3	10.5	2.5	0.5	565-3047-ND	.74	.55	.41	APSA100ELL101MFA5G
	150	2820	25	6.3	10.5	2.5	0.5	565-3048-ND	.74	.55	.41	APSA100ELL151MFA5G
	270	4710	9	8.0	11.5	3.5	0.8	565-3049-ND	.77	.58	.43	APSA100ELL271MHB5S
	470	5650	8	10.0	11.5	5.0	0.8	565-3050-ND	1.09	.82	.62	APSA100ELL471MJB5S
16	100	2820	25	6.3	10.5	2.5	0.5	565-3053-ND	.74	.55	.41	APSA160ELL101MFA5G

UNITED CHEMI-CON

NEW! NPCAP™ PSC Series Polymer Aluminum Electrolytic Capacitors (Radial Lead)

Ultra - Low ESR 105°C

Features:
• Solid functional polymer aluminum • Super - Low ESR • High ripple current capability • High temperature resistance • 105°C Maximum Temperature

Specifications:
• **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Dissipation Factor:** 0.1 maximum @ 20°C 120Hz

Size Code	ØD	Ød	F	L
H08	8.0	0.6	3.5	8.0
HB5	8.0	0.8†	3.5	11.5
JB5	10.0	0.8†	5.0	11.5
JC5	10.0	0.6	5.0	12.5

† 0.6 for rated volt 16V

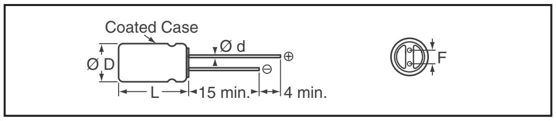

Rated W.V. (VDC)	Capaci-tance (µF)	Size Code	Rated Ripple Current (mA RMS) 100kHz	Maximum ESR (mΩ) at 20°C 100 ~ 300kHz	Leakage Current (µA) at 20°C after 2 Min.	Dimensions — mm D	L	Digi-Key Part No.	Bulk Price Each 1	10	100	United Chemi-Con Part No.
2.5	560	H08	6100	7	500	8.0	8.0	565-3217-ND	.95	.71	.52	APSC2R5ELL561MH08S
	820	H08	6100	7	500	8.0	8.0	565-3219-ND	.95	.71	.52	APSC2R5ELL821MH08S
	1000	H08	6100	7	500	8.0	8.0	565-3218-ND	1.03	.77	.57	APSC2R5ELL102MH08S
	1000	HB5	6100	7	500	8.0	11.5	565-3220-ND	.97	.72	.53	APSC2R5ELL102MHB5S
	1500	HB5	6100	7	750	8.0	11.5	565-3221-ND	1.02	.77	.58	APSC2R5ELL152MHB5S
	2700	JB5	5560	8	1350	10.0	11.5	565-3222-ND	1.68	1.26	.95	APSC2R5ELL272MJB5S
4.0	560	H08	6100	7	500	8.0	8.0	565-3223-ND	.95	.71	.52	APSC4R0ELL561MH08S
	680	HB5	6100	7	544	8.0	11.5	565-3224-ND	.94	.71	.52	APSC4R0ELL681MHB5S
	1000	JB5	6640	6	800	10.0	11.5	565-3225-ND	1.60	1.20	.90	APSC4R0ELL102MJB5S
6.3	470	H08	5700	8	592	8.0	8.0	565-3226-ND	.96	.72	.53	APSC6R3ELL471MH08S
	560	H08	5700	8	706	8.0	8.0	565-3227-ND	1.01	.75	.55	APSC6R3ELL561MH08S
	820	JB5	6640	7	1033	10.0	11.5	565-3228-ND	1.30	.98	.74	APSC6R3ELL821MJB5S
	1500	JB5	5560	10	1890	10.0	11.5	565-3229-ND	1.59	1.20	.90	APSC6R3ELL152MJB5S
10	390	HB5	5650	9	780	8.0	11.5	565-3230-ND	1.02	.76	.56	APSC100ELL391MHB5S
	680	JB5	6100	7	1360	10.0	11.5	565-3231-ND	1.42	1.07	.80	APSC100ELL681MJB5S
16	270	HB5	5080	11	864	8.0	11.5	565-3232-ND	1.06	.80	.60	APSC160ELL271MHB5S
	330	JC5	6100	10	1056	10.0	12.5	565-3233-ND	1.48	1.12	.84	APSC160ELL331MJC5S
	470	JB5	6100	10	1504	10.0	11.5	565-3234-ND	1.56	1.18	.88	APSC160ELL471MJB5S

NPCAP™ PXA Series Polymer Aluminum Electrolytic Capacitors (SMT)

Digi-Reel®

Ultra - Low ESR 105°C

Features:
• Solid functional polymer aluminum • Ultra-low ESR • High temperature resistance • For Lead Free Soldering • 105°C Maximum temperature

Specifications:
• **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Dissipation Factor:** 0.12 maximum @ 20°C 120Hz • **Leakage Current:** I = 0.2CV maximum after 2 minutes @ 20°C

Size Code	ØD	L	A	B	C	W	P
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H70	8.0	6.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1
J80	10.0	7.7	10.3	10.3	11.0	0.7 ~ 1.1	4.5
HC0	8.0	12.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JC0	10.0	12.2	10.3	10.3	11.0	0.7 ~ 1.1	4.5

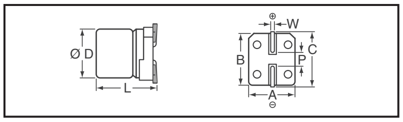

Rated W. V. (VDC)	Cap. (µF)	Size Code	Rated Ripple Current (mA RMS) @85°C 120Hz	Maximum ESR mΩ @ 100kHz to 20°C	Dimensions mm ØD	L	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	United Chemi-Con Part No.
2.5	220	F55	2500	25	6.3	5.2	565-3087-1-ND	4.31	7.11	16.49	565-3087-2-ND	1,000	274.00	APXA2R5ARA221MF55G
	220	F60	2500	25	6.3	5.7	565-3088-1-ND	4.30	7.08	16.44	565-3088-2-ND	1,000	273.00	APXA2R5ARA221MF60G
	560	H70	3100	23	8.0	6.7	565-3089-1-ND	5.53	9.10	21.13	565-3089-2-ND	1,000	346.00	APXA2R5ARA561MH70G
	680	HC0	4770	12	8.0	12.0	565-3090-1-ND	8.71	14.35	33.31	565-3090-2-ND	400	369.20	APXA2R5ARA681MHC0G
	1000	J80	4240	19	10.0	7.7	565-3086-1-ND	7.86	12.95	30.06	565-3086-2-ND	500	296.00	APXA2R5ARA102MJ80G
4	100	F55	2450	26	6.3	5.2	565-3100-1-ND	4.31	7.11	16.49	565-3100-2-ND	1,000	274.00	APXA4R0ARA101MF55G
	100	F60	2450	26	6.3	5.7	565-3101-1-ND	4.30	7.08	16.44	565-3101-2-ND	1,000	273.00	APXA4R0ARA101MF60G
	150	F60	2450	26	6.3	5.7	565-3099-1-ND	4.29	7.07	16.41	565-3099-2-ND	1,000	273.00	APXA4R0ARA151MF60G
	220	H70	3020	25	8.0	6.7	565-3104-1-ND	5.57	9.17	21.29	565-3104-2-ND	1,000	348.00	APXA4R0ARA221MH70G
	330	H70	3020	25	8.0	6.7	565-3105-1-ND	5.57	9.17	21.29	565-3105-2-ND	1,000	348.00	APXA4R0ARA331MH70G
	470	J80	4130	20	10.0	7.7	565-3106-1-ND	7.86	12.95	30.06	565-3106-2-ND	500	296.00	APXA4R0ARA471MJ80G
	560	HC0	4770	12	8.0	12.0	565-3107-1-ND	8.71	14.35	33.31	565-3107-2-ND	400	369.20	APXA4R0ARA561MHC0G
	680	J80	4130	20	10.0	7.7	565-3108-1-ND	7.86	12.95	30.06	565-3108-2-ND	500	296.00	APXA4R0ARA681MJ80G
	820	JC0	5500	10	10.0	12.2	565-3109-1-ND	8.93	14.70	34.13	565-3109-2-ND	400	378.00	APXA4R0ARA821MJC0G
	1200	JC0	5500	10	10.0	12.2	565-3102-1-ND	8.93	14.70	34.13	565-3102-2-ND	400	378.00	APXA4R0ARA122MJC2G
6.3	68	F60	2400	27	6.3	5.7	565-3120-1-ND	4.29	7.07	16.41	565-3120-2-ND	1,000	273.00	APXA6R3ARA680MF60G
	82	F55	2400	27	6.3	5.2	565-3122-1-ND	4.31	7.11	16.49	565-3122-2-ND	1,000	274.00	APXA6R3ARA820MF55G
	82	F60	2400	27	6.3	5.7	565-3123-1-ND	4.29	7.07	16.41	565-3123-2-ND	1,000	273.00	APXA6R3ARA820MF60G
	100	F55	2400	27	6.3	5.2	565-3110-1-ND	4.31	7.11	16.49	565-3110-2-ND	1,000	274.00	APXA6R3ARA101MF55G
	100	F60	2400	27	6.3	5.7	565-3111-1-ND	4.04	6.65	15.44	565-3111-2-ND	1,000	257.00	APXA6R3ARA101MF60G
	120	F60	2400	27	6.3	5.7	565-3112-1-ND	4.04	6.65	15.44	565-3112-2-ND	1,000	257.00	APXA6R3ARA121MF60G
	150	H70	3020	25	8.0	6.7	565-3113-1-ND	5.53	9.10	21.13	565-3113-2-ND	1,000	346.00	APXA6R3ARA151MH70G
	220	H70	3020	25	8.0	6.7	565-3114-1-ND	5.53	9.10	21.13	565-3114-2-ND	1,000	346.00	APXA6R3ARA221MH70G
	330	J80	4130	20	10.0	7.7	565-3115-1-ND	7.86	12.95	30.06	565-3115-2-ND	500	296.00	APXA6R3ARA331MJ80G
	390	HC0	4770	12	8.0	12.0	565-3116-1-ND	8.71	14.35	33.31	565-3116-2-ND	400	369.20	APXA6R3ARA391MHC0G
	470	HC0	4770	12	8.0	12.0	565-3117-1-ND	8.71	14.35	33.31	565-3117-2-ND	400	369.20	APXA6R3ARA471MHC0G
	470	J80	4130	20	10.0	7.7	565-3118-1-ND	7.86	12.95	30.06	565-3118-2-ND	500	296.00	APXA6R3ARA471MJ80G
	680	JC0	5500	10	10.0	12.2	565-3119-1-ND	10.92	17.99	41.76	565-3119-2-ND	400	411.20	APXA6R3ARA681MJC0G
	820	JC0	5500	10	10.0	12.2	565-3121-1-ND	10.92	17.99	41.76	565-3121-2-ND	400	411.20	APXA6R3ARA821MJC0G
10	47	F60	2250	31	6.3	5.7	565-3073-1-ND	4.30	7.08	16.44	565-3073-2-ND	1,000	273.00	APXA100ARA470MF60G
	56	F55	2250	31	6.3	5.2	565-3075-1-ND	4.31	7.11	16.49	565-3075-2-ND	1,000	274.00	APXA100ARA560MF55G
	56	F60	2250	31	6.3	5.7	565-3076-1-ND	4.30	7.08	16.44	565-3076-2-ND	1,000	273.00	APXA100ARA560MF60G
	120	H70	2800	27	8.0	6.7	565-3066-1-ND	5.53	9.10	21.13	565-3066-2-ND	1,000	346.00	APXA100ARA121MH70G
	150	H70	2800	27	8.0	6.7	565-3067-1-ND	5.53	9.10	21.13	565-3067-2-ND	1,000	346.00	APXA100ARA151MH70G
	270	HC0	4420	14	8.0	12.0	565-3068-1-ND	8.71	14.35	33.31	565-3068-2-ND	400	369.20	APXA100ARA271MHC0G
	270	J80	3770	24	10.0	7.7	565-3069-1-ND	7.86	12.95	30.06	565-3069-2-ND	500	296.00	APXA100ARA271MJ80G
	330	HC0	4420	14	8.0	12.0	565-3070-1-ND	8.71	14.35	33.31	565-3070-2-ND	400	369.20	APXA100ARA331MHC0G
	330	J80	3770	24	10.0	7.7	565-3071-1-ND	7.86	12.95	30.06	565-3071-2-ND	500	296.00	APXA100ARA331MJ80G
	470	JC0	5300	12	10.0	12.2	565-3072-1-ND	11.90	19.60	45.50	565-3072-2-ND	400	448.00	APXA100ARA471MJC0G
	560	JC0	5300	12	10.0	12.2	565-3074-1-ND	8.93	14.70	34.13	565-3074-2-ND	400	378.00	APXA100ARA561MJC0G
16	33	F60	2050	37	6.3	5.7	565-3082-1-ND	4.29	7.07	16.41	565-3082-2-ND	1,000	273.00	APXA160ARA330MF60G
	39	F55	2050	37	6.3	5.2	565-3083-1-ND	4.31	7.11	16.49	565-3083-2-ND	1,000	274.00	APXA160ARA390MF55G
	39	F60	2050	37	6.3	5.7	565-3084-1-ND	4.30	7.08	16.44	565-3084-2-ND	1,000	273.00	APXA160ARA390MF60G
	82	H70	2700	30	8.0	6.7	565-3085-1-ND	5.53	9.10	21.13	565-3085-2-ND	1,000	346.00	APXA160ARA820MH70G
	150	J80	3430	26	10.0	7.7	565-3077-1-ND	7.86	12.95	30.06	565-3077-2-ND	500	296.00	APXA160ARA151MJ80G
	180	HC0	4360	16	8.0	12.0	565-3078-1-ND	8.71	14.35	33.31	565-3078-2-ND	400	369.20	APXA160ARA181MHC0G
	180	J80	3430	26	10.0	7.7	565-3079-1-ND	7.86	12.95	30.06	565-3079-2-ND	500	296.00	APXA160ARA181MJ80G
	220	JC0	5050	14	10.0	12.2	565-3080-1-ND	10.63	17.50	40.63	565-3080-2-ND	400	400.00	APXA160ARA221MJC0G
	330	JC0	5050	14	10.0	12.2	565-3081-1-ND	11.69	19.25	44.69	565-3081-2-ND	400	440.00	APXA160ARA331MJC0G

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

NPCAP™ PXC Series Polymer Aluminum Electrolytic Capacitors (SMT)

Super - Low ESR 105°C

Features:
- Solid functional polymer aluminum • Super-low ESR (20 ~ 30% Lower than PXA Series) • High temperature resistance • 105°C maximum temperature

Specifications:
- **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20%
- **Dissipation Factor:** 0.12 maximum @ 20°C 120Hz • **Leakage Current:** I = 0.2CV maximum after 2 minutes @ 20°C

Size Code	ØD	L	A	B	C	W	P
E60	5.0	5.7	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H70	8.0	6.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1

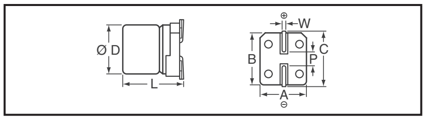

Rated W. V. (VDC)	Cap. (µF)	Size Code	Rated Ripple Current (mA RMS) @85°C	Maximum ESR mΩ @20°C		Dimensions mm		Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		United Chemi-Con
				100kHz	300kHz	ØD	L	Part No.	5	10	25	Part No.	Qty.	Pricing	Part No.
2.5	180	E60	2000	30	22	5.0	5.7	565-3130-1-ND	4.26	7.01	16.27	565-3130-2-ND	1,000	270.00	APXC2R5ARA181ME60G
	270	F60	2700	20	18	6.3	5.7	565-3131-1-ND	4.64	7.65	17.75	565-3131-2-ND	1,000	295.00	APXC2R5ARA271MF60G
	470	H70	3420	17	16	8.0	6.7	565-3132-1-ND	5.96	9.81	22.77	565-3132-2-ND	1,000	373.00	APXC2R5ARA471MH70G
4	150	E60	2000	30	22	5.0	5.7	565-3133-1-ND	4.26	7.01	16.27	565-3133-2-ND	1,000	270.00	APXC4R0ARA151ME60G
	220	F60	2640	21	19	6.3	5.7	565-3134-1-ND	4.64	7.65	17.75	565-3134-2-ND	1,000	295.00	APXC4R0ARA221MF60G
	330	H70	3300	18	17	8.0	6.7	565-3135-1-ND	5.96	9.81	22.77	565-3135-2-ND	1,000	373.00	APXC4R0ARA331MH70G
6.3	100	E60	1780	35	26	5.0	5.7	565-3136-1-ND	4.26	7.01	16.27	565-3136-2-ND	1,000	270.00	APXC6R3ARA101ME60G
	180	F60	2580	22	19	6.3	5.7	565-3137-1-ND	4.64	7.65	17.75	565-3137-2-ND	1,000	295.00	APXC6R3ARA181MF60G
	220	H70	3300	18	17	8.0	6.7	565-3138-1-ND	5.96	9.81	22.77	565-3138-2-ND	1,000	373.00	APXC6R3ARA221MH70G
10	56	E60	1660	40	31	5.0	5.7	565-3125-1-ND	4.26	7.01	16.27	565-3125-2-ND	1,000	270.00	APXC100ARA560ME60G
	82	F60	2440	23	21	6.3	5.7	565-3126-1-ND	4.64	7.65	17.75	565-3126-2-ND	1,000	295.00	APXC100ARA820MF60G
	150	H70	3160	20	19	8.0	6.7	565-3124-1-ND	5.96	9.81	22.77	565-3124-2-ND	1,000	373.00	APXC100ARA151MH70G
16	27	E60	1570	45	35	5.0	5.7	565-3127-1-ND	4.26	7.01	16.27	565-3127-2-ND	1,000	270.00	APXC160ARA270ME60G
	39	F60	2300	25	23	6.3	5.7	565-3128-1-ND	4.64	7.65	17.75	565-3128-2-ND	1,000	295.00	APXC160ARA390MF60G
	82	H70	2830	25	23	8.0	6.7	565-3129-1-ND	5.96	9.81	22.77	565-3129-2-ND	1,000	373.00	APXC160ARA820MH70G

NPCAP™ PXH Series Polymer Aluminum Electrolytic Capacitors (SMT)

Super - Low ESR 125°C

Features:
- Solid functional polymer aluminum • Super-low ESR • High temperature resistance
- 125°C maximum temperature

Specifications:
- **Operating Temperature Range:** -55°C ~ 125°C • **Capacitance Tolerance:** ±20%
- **Dissipation Factor:** 0.12 maximum @ 20°C 120Hz

Size Code	ØD	L	A	B	C	W	P
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H70	8.0	6.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1
J80	10.0	7.7	10.3	10.3	11.0	0.7 ~ 1.1	4.5

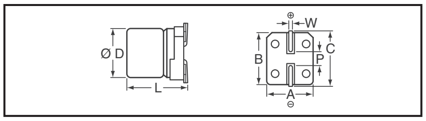

Rated W. V. (VDC)	Cap. (µF)	Size Code	Leakage Current µA max after 2 Minutes	Rated Ripple Current (mA RMS) 100kHz ~ 300kHz		Maximum ESR mΩ @20°C	Dimensions mm		Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		United Chemi-Con
				-55°C ~ 105°C	105°C ~ 125°C	100kHz - 300kHz	ØD	L	Part No.	5	10	25	Part No.	Qty.	Pricing	Part No.
2.5	220	F60	110	2500	770	35	6.3	5.7	565-3148-1-ND	4.87	8.03	18.64	565-3148-2-ND	1,000	310.00	APXH2R5ARA221MF60G
	1000	J80	500	3700	1100	25	10.0	7.7	565-3147-1-ND	8.91	14.67	34.07	565-3147-2-ND	500	335.50	APXH2R5ARA102MJ80G
4	150	F60	120	2450	770	35	6.3	5.7	565-3152-1-ND	4.87	8.03	18.64	565-3152-2-ND	1,000	310.00	APXH4R0ARA151MF60G
	220	H70	176	3020	960	30	8.0	6.7	565-3153-1-ND	6.24	10.27	23.85	565-3153-2-ND	1,000	390.00	APXH4R0ARA221MH70G
	680	J80	544	3700	1100	25	10.0	7.7	565-3154-1-ND	8.91	14.67	34.07	565-3154-2-ND	500	335.50	APXH4R0ARA681MJ80G
6.3	82	F60	103	2400	720	40	6.3	5.7	565-3159-1-ND	4.87	8.03	18.64	565-3159-2-ND	1,000	310.00	APXH6R3ARA820MF60G
	100	F60	126	2400	720	40	6.3	5.7	565-3155-1-ND	4.87	8.03	18.64	565-3155-2-ND	1,000	310.00	APXH6R3ARA101MF60G
	150	H70	189	3020	960	30	8.0	6.7	565-3156-1-ND	6.24	10.27	23.85	565-3156-2-ND	1,000	390.00	APXH6R3ARA151MH70G
	220	H70	277	3020	960	30	8.0	6.7	565-3157-1-ND	6.24	10.27	23.85	565-3157-2-ND	1,000	390.00	APXH6R3ARA221MH70G
	470	J80	592	3700	1100	25	10.0	7.7	565-3158-1-ND	8.91	14.67	34.07	565-3158-2-ND	500	335.50	APXH6R3ARA471MJ80G
10	56	F60	112	2250	680	45	6.3	5.7	565-3143-1-ND	4.87	8.03	18.64	565-3143-2-ND	1,000	310.00	APXH100ARA560MF60G
	120	H70	240	2800	880	35	8.0	6.7	565-3139-1-ND	6.24	10.27	23.85	565-3139-2-ND	1,000	390.00	APXH100ARA121MH70G
	150	H70	300	2800	880	35	8.0	6.7	565-3140-1-ND	6.24	10.27	23.85	565-3140-2-ND	1,000	390.00	APXH100ARA151MH70G
	330	J80	660	3700	1010	30	10.0	7.7	565-3141-1-ND	8.91	14.67	34.07	565-3141-2-ND	500	335.50	APXH100ARA331MJ80G
16	39	F60	125	2050	650	50	6.3	5.7	565-3142-1-ND	4.87	8.03	18.64	565-3142-2-ND	1,000	310.00	APXH160ARA390MF60G
	82	H70	262	2700	830	40	8.0	6.7	565-3146-1-ND	6.24	10.27	23.85	565-3146-2-ND	1,000	390.00	APXH160ARA820MH70G
	150	J80	480	3020	930	35	10.0	7.7	565-3144-1-ND	8.91	14.67	34.07	565-3144-2-ND	500	335.50	APXH160ARA151MJ80G
	180	J80	576	3020	930	35	10.0	7.7	565-3145-1-ND	8.91	14.67	34.07	565-3145-2-ND	500	335.50	APXH160ARA181MJ80G
20	22	F60	88	1650	590	60	6.3	5.7	565-3149-1-ND	4.87	8.03	18.64	565-3149-2-ND	1,000	310.00	APXH200ARA220MF60G
	47	H70	188	2000	780	45	8.0	6.7	565-3150-1-ND	6.24	10.27	23.85	565-3150-2-ND	1,000	390.00	APXH200ARA470MH70G
	82	J80	328	2400	820	45	10.0	7.7	565-3151-1-ND	8.91	14.67	34.07	565-3151-2-ND	500	335.50	APXH200ARA820MJ80G

NEW! NPCAP™ PXE Series Polymer Aluminum Electrolytic Capacitors (SMT)

Super - Low ESR 105°C

Features:
- Solid Functional Polymer Aluminum • Super - Low ESR • High temperature resistance • 105°C Maximum Temperature

Specifications:
- **Operating Temperature Range:** -55°C ~ 105°C
- **Capacitance Tolerance:** ±20%
- **Dissipation Factor:** 0.12 maximum at 20°C, 120Hz
- **Leakage Current:** 0.2CV maximum at 20°C after 2 minutes

Size Code	ØD	L	A	B	C	W	P
E61	5	5.8	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F61	6.3	5.8	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H70	8	6.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1
H80	8	7.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1
HA0	8	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
HC0	8	12.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
J80	10	7.7	10.3	10.3	11.0	0.7 ~ 1.1	4.5
JC0	10	12.2	10.3	10.3	11.0	0.7 ~ 1.1	4.5

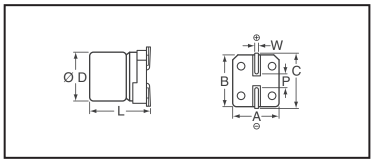

Rated W.V. VDC	Capacitance (µF)	Size Code	Rated Ripple Current (mA RMS) 100 ~ 300kHz 105°C	Maximum ESR (mΩ) at 20°C 100kHz	Dimensions — mm		Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel		United Chemi-Con
					ØD	L	Part No.	5	10	25	Part No.	Qty.	Pricing	Part No.
2.5	180	E61	2670	21	5	5.8	565-3166-1-ND	.81	.67	.62	565-3166-2-ND	1,000	256.50	APXE2R5ARA181ME61G
	390	F61	3160	15	6.3	5.8	565-3167-1-ND	.31	.26	.24	565-3167-2-ND	1,000	100.80	APXE2R5ARA391MF61G
	470	F80	3600	13	6.3	7.7	565-3168-1-ND	1.13	.93	.86	565-3168-2-ND	900	380.16	APXE2R5ARA471MF80G
	560	F80	3600	13	6.3	7.7	565-3169-1-ND	1.12	.93	.86	565-3169-2-ND	900	378.72	APXE2R5ARA561MF80G
	680	H70	4100	13	8	6.7	565-3170-1-ND	.44	.36	.34	565-3170-2-ND	1,000	142.80	APXE2R5ARA681MH70G

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

NEW! NPCAP™ PXE Series Polymer Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. VDC	Capaci-tance (µF)	Size Code	Rated Ripple Current (mA RMS) 100 ~ 300kHz 105°C	Maximum ESR (mΩ) at 20°C 100kHz	Dimensions — mm		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
					ØD	L		5	10	25		Qty.	Pricing	
2.5	820	HC0	5400	9	8	12	565-3171-1-ND	2.40	1.98	1.83	565-3171-2-ND	400	450.43	APXE2R5ARA821MHC0G
	1000	H80	4260	12	8	7.7	565-3172-1-ND	1.85	1.53	1.42	565-3172-2-ND	900	626.67	APXE2R5ARA102MH80G
	1200	J80	4450	13	10	7.7	565-3173-1-ND	2.14	1.77	1.64	565-3173-2-ND	500	377.60	APXE2R5ARA122MJ80G
	1500	HC0	5400	9	8	12	565-3174-1-ND	2.59	2.13	1.98	565-3174-2-ND	400	486.93	APXE2R5ARA152MHC0G
	2700	JC0	5600	9	10	12.2	565-3175-1-ND	2.94	2.42	2.25	565-3175-2-ND	400	552.80	APXE2R5ARA272MJC0G
4.0	100	E61	2610	22	5	5.8	565-3176-1-ND	.81	.67	.62	565-3176-2-ND	1,000	256.50	APXE4R0ARA101ME61G
	150	E61	2610	22	5	5.8	565-3177-1-ND	.81	.67	.62	565-3177-2-ND	1,000	256.50	APXE4R0ARA151ME61G
	270	F61	3160	15	6.3	5.8	565-3178-1-ND	1.01	.83	.78	565-3178-2-ND	1,000	319.95	APXE4R0ARA271MF61G
	330	F61	3160	15	6.3	5.8	565-3179-1-ND	1.01	.83	.78	565-3179-2-ND	1,000	319.95	APXE4R0ARA331MF61G
	390	F80	3470	14	6.3	7.7	565-3180-1-ND	1.12	.93	.86	565-3180-2-ND	900	378.72	APXE4R0ARA391MF80G
	470	H70	3950	14	8	6.7	565-3181-1-ND	1.40	1.15	1.07	565-3181-2-ND	1,000	436.24	APXE4R0ARA471MH70G
	560	H70	3950	14	8	6.7	565-3182-1-ND	1.40	1.15	1.07	565-3182-2-ND	1,000	436.24	APXE4R0ARA561MH70G
	680	H80	3950	13	8	7.7	565-3183-1-ND	.58	.48	.44	565-3183-2-ND	900	206.55	APXE4R0ARA681MH80G
	1000	J80	4300	14	10	7.7	565-3184-1-ND	2.14	1.77	1.64	565-3184-2-ND	500	377.25	APXE4R0ARA102MJ80G
	1200	HC0	5400	9	8	12	565-3185-1-ND	2.59	2.13	1.98	565-3185-2-ND	400	486.40	APXE4R0ARA122MHC0G
	1800	JC0	5600	9	10	12.2	565-3186-1-ND	3.15	2.59	2.41	565-3186-2-ND	400	592.00	APXE4R0ARA182MJC0G
6.3	100	E61	2500	24	5	5.8	565-3187-1-ND	.81	.67	.62	565-3187-2-ND	1,000	256.50	APXE6R3ARA101ME61G
	120	E61	2500	24	5	5.8	565-3188-1-ND	.81	.67	.62	565-3188-2-ND	1,000	256.50	APXE6R3ARA121ME61G
	220	F61	3160	15	6.3	5.8	565-3189-1-ND	1.01	.83	.78	565-3189-2-ND	1,000	319.95	APXE6R3ARA221MF61G
	330	F80	3470	14	6.3	7.7	565-3190-1-ND	1.12	.93	.86	565-3190-2-ND	900	378.72	APXE6R3ARA331MF80G
	330	H70	3950	14	8	6.7	565-3191-1-ND	1.39	1.15	1.06	565-3191-2-ND	1,000	433.58	APXE6R3ARA331MH70G
	390	H70	3950	14	8	6.7	565-3192-1-ND	1.40	1.15	1.07	565-3192-2-ND	1,000	436.24	APXE6R3ARA391MH70G
	470	H80	3950	13	8	7.7	565-3193-1-ND	1.86	1.53	1.42	565-3193-2-ND	900	627.84	APXE6R3ARA471MH80G
	820	HC0	5150	10	8	12	565-3194-1-ND	2.54	2.09	1.94	565-3194-2-ND	400	476.80	APXE6R3ARA821MHC0G
	820	J80	4300	14	10	7.7	565-3195-1-ND	2.15	1.77	1.65	565-3195-2-ND	500	378.75	APXE6R3ARA821MJ80G
	1500	JC0	5500	10	10	12.2	565-3196-1-ND	3.29	2.71	2.52	565-3196-2-ND	400	463.80	APXE6R3ARA152MJC0G
10	47	E61	2310	28	5	5.8	565-3197-1-ND	.81	.67	.62	565-3197-2-ND	1,000	256.50	APXE100ARA470ME61G
	56	E61	2310	28	5	5.8	565-3198-1-ND	.81	.67	.62	565-3198-2-ND	1,000	256.50	APXE100ARA560ME61G
	68	E61	2310	28	5	5.8	565-3199-1-ND	.81	.67	.62	565-3199-2-ND	1,000	256.50	APXE100ARA680ME61G
	120	F61	2530	25	6.3	5.8	565-3200-1-ND	1.01	.83	.78	565-3200-2-ND	1,000	319.95	APXE100ARA121MF61G
	150	F80	2880	21	6.3	7.7	565-3201-1-ND	1.13	.93	.86	565-3201-2-ND	900	380.16	APXE100ARA151MF80G
	220	H70	3220	21	8	6.7	565-3202-1-ND	1.43	1.18	1.09	565-3202-2-ND	1,000	445.55	APXE100ARA221MH70G
	270	H70	3220	21	8	6.7	565-3203-1-ND	1.44	1.19	1.11	565-3203-2-ND	1,000	450.87	APXE100ARA271MH70G
	330	H80	3390	19	8	7.7	565-3204-1-ND	1.85	1.53	1.42	565-3204-2-ND	900	626.40	APXE100ARA331MH80G
	470	J80	3800	19	10	7.7	565-3205-1-ND	2.16	1.78	1.65	565-3205-2-ND	500	380.25	APXE100ARA471MJ80G
16	33	E61	2070	35	5	5.8	565-3206-1-ND	.81	.67	.62	565-3206-2-ND	1,000	256.50	APXE160ARA330ME61G
	39	E61	2070	35	5	5.8	565-3207-1-ND	.81	.67	.62	565-3207-2-ND	1,000	256.50	APXE160ARA390ME61G
	68	F61	2390	28	6.3	5.8	565-3208-1-ND	1.02	.84	.78	565-3208-2-ND	1,000	321.30	APXE160ARA680MF61G
	82	F80	2700	24	6.3	7.7	565-3209-1-ND	1.13	.93	.86	565-3209-2-ND	900	380.16	APXE160ARA820MF80G
	100	F80	2700	24	6.3	7.7	565-3210-1-ND	1.13	.94	.87	565-3210-2-ND	900	383.04	APXE160ARA101MF80G
	100	H70	3010	24	8	6.7	565-3211-1-ND	1.45	1.20	1.11	565-3211-2-ND	1,000	453.53	APXE160ARA101MH70G
	120	H70	3010	24	8	6.7	565-3212-1-ND	1.46	1.20	1.12	565-3212-2-ND	1,000	454.86	APXE160ARA121MH70G
	150	H80	3150	22	8	7.7	565-3213-1-ND	1.83	1.51	1.40	565-3213-2-ND	900	617.76	APXE160ARA151MH80G
	180	HA0	3890	18	8	10	565-3214-1-ND	.68	.56	.52	565-3214-2-ND	500	134.30	APXE160ARA181MHA0G
	220	HA0	3890	18	8	10	565-3215-1-ND	2.15	1.77	1.65	565-3215-2-ND	500	378.75	APXE160ARA221MHA0G
	220	J80	3450	22	10	7.7	565-3216-1-ND	1.72	1.42	1.32	565-3216-2-ND	500	343.40	APXE160ARA221MJ80G

NEW! NPCAP™ PXF Series Polymer Aluminum Electrolytic Capacitors (SMT)

Super - Low ESR 105°C

Features:
- Solid Functional Polymer Aluminum
- Super - Low ESR
- High Temperature Resistance
- 105°C Maximum Temperature

Specifications:
- **Operating Temperature Range:** -55°C ~ 105°C
- **Capacitance Tolerance:** ±20%
- **Dissipation Factor:** 0.12 Maximum at 20°C, 120Hz
- **Leakage Current:** 0.3CV Maximum at 20°C after 2 minutes

Size Code	ØD	L	A	B	C	W	P
F61	6.3	5.8	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H80	8.0	7.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1

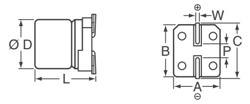

Rated W.V. VDC	Capaci-tance (µF)	Size Code	Rated Ripple Current (mA RMS) 100 ~ 300kHz 105°C	Maximum ESR (mΩ) at 20°C 100kHz	Dimensions — mm		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		United Chemi-Con Part No.
					ØD	L		5	10	25		Qty.	Pricing	
2.5	390	F61	3900	10	6.3	5.8	565-3160-1-ND	1.19	.98	.91	565-3160-2-ND	1,000	369.67	APXF2R5ARA391MF61G
	1000	H80	4500	9	8.0	7.7	565-3161-1-ND	1.78	1.47	1.37	565-3161-2-ND	900	603.36	APXF2R5ARA102MH80G
4.0	330	F61	3900	10	6.3	5.8	565-3162-1-ND	1.65	1.36	1.27	565-3162-2-ND	1,000	543.20	APXF4R0ARA331MF61G
6.3	220	F61	3900	10	6.3	5.8	565-3163-1-ND	.37	.31	.28	565-3163-2-ND	1,000	120.40	APXF6R3ARA221MF61G
	470	H80	4500	9	8.0	7.7	565-3164-1-ND	1.77	1.46	1.36	565-3164-2-ND	900	599.04	APXF6R3ARA471MH80G
	560	H80	4500	9	8.0	7.7	565-3165-1-ND	.55	.46	.42	565-3165-2-ND	900	208.98	APXF6R3ARA561MH80G

NEW! Proadlizer® Conductive Polymer Decoupling Device

Features:
- Super - Low ESR and Impedance
- High Heat Resistance
- Excellent Noise Absorption Performance at GHz Frequencies

Specifications:
- **Operating Temperature Range:** -55°C ~ 105°C
- **Leakage Current:** 300µA
- **Dissipation Factor:** 0.1 max. at 20°C 120Hz

Dimensions in mm

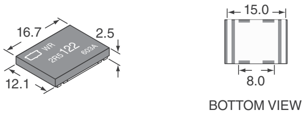

W.V. DC	Capaci-tance 20°C 120Hz	ESR (mΩ) @ 20°C 100kHz	Rated Ripple Current @ -55 ~ 105°C 100 ~ 300kHz (mA RMS)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	United Chemi-Con Part No.
					5	10	25			
2.5	1200	2	5000	565-3235-1-ND	14.84	12.22	11.35	565-3235-2-ND	4537.00	AWR-2R5SRB122MF25S

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

UNITED CHEMI-CON

SMH Series Aluminum Electrolytic Capacitors (Snap-In)

General Purpose 85°C

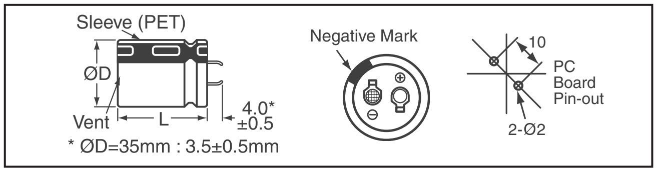

Features:
- General Purpose • High CV • High Ripple • 2,000 Hours @ 85°C

Specifications:
- Operating Temperature Range: -40°C ~ 85°C • Capacitance Tolerance: ±20% • Leakage Current @ 20°C: I=0.02CV or 3mA, whichever is smaller

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
6.3	15000	22x25	0.60	2.44	565-2571-ND	2.63	19.88	150.00	ESMH6R3VSN153MP25T
	22000	22x30	0.60	3.06	565-2572-ND	2.75	20.83	157.19	ESMH6R3VSN223MP30T
	22000	25.4x25	0.60	3.07	565-2573-ND	3.01	22.79	172.00	ESMH6R3VSN223MQ25T
	27000	22x35	0.60	3.49	565-2574-ND	2.97	22.52	169.94	ESMH6R3VSN273MP35T
	27000	25.4x30	0.60	3.52	565-2575-ND	3.12	23.59	178.00	ESMH6R3VSN273MQ30T
	33000	22x40	0.60	3.97	565-2576-ND	3.18	24.09	181.81	ESMH6R3VSN333MP40T
	33000	25.4x35	0.60	4.02	565-2577-ND	3.37	25.51	192.53	ESMH6R3VSN333MQ35T
	39000	22x50	0.60	4.55	565-2578-ND	3.46	26.19	197.69	ESMH6R3VSN393MP50T
	39000	25.4x40	0.60	4.50	565-2579-ND	3.46	26.22	197.86	ESMH6R3VSN393MQ40T
	56000	25.4x50	0.60	5.71	565-2582-ND	4.12	31.18	235.33	ESMH6R3VSN563MQ50T
	56000	30x40	0.60	5.70	565-2583-ND	5.20	39.40	297.33	ESMH6R3VSN563MR40T
	68000	35x35	0.60	6.42	565-2584-ND	5.24	39.65	299.23	ESMH6R3VSN683MA35T
	82000	30x50	0.60	7.32	565-2586-ND	5.83	44.10	332.86	ESMH6R3VSN823MR50T
	82000	35x40	0.60	7.29	565-2587-ND	6.54	49.51	373.63	ESMH6R3VSN823MA40T
	100000	35x45	0.60	8.31	565-2588-ND	7.15	54.15	408.70	ESMH6R3VSN104MA45T
10	12000	22x25	0.50	2.39	565-2589-ND	2.63	19.88	150.00	ESMH100VSN123MP25T
	15000	22x30	0.50	2.76	565-2590-ND	2.70	20.41	154.00	ESMH100VSN153MP30T
	15000	25.4x25	0.50	2.77	565-2591-ND	3.00	22.72	171.44	ESMH100VSN153MQ25T
	18000	22x35	0.50	3.12	565-2592-ND	2.87	21.73	164.00	ESMH100VSN183MP35T
	22000	22x40	0.50	3.55	565-2593-ND	3.17	24.01	181.18	ESMH100VSN223MP40T
	22000	25.4x30	0.50	3.48	565-2594-ND	3.29	24.91	188.00	ESMH100VSN223MQ30T
	27000	22x45	0.50	4.04	565-2595-ND	3.34	25.27	190.74	ESMH100VSN273MP45T
	27000	25.4x35	0.50	3.98	565-2596-ND	3.48	26.34	198.79	ESMH100VSN273MQ35T
	33000	22x50	0.50	4.58	565-2597-ND	3.59	27.17	205.09	ESMH100VSN333MP50T
	33000	25.4x45	0.50	4.54	565-2598-ND	3.70	28.02	211.50	ESMH100VSN333MQ40T
	39000	25.4x45	0.50	5.08	565-2599-ND	4.06	30.71	231.75	ESMH100VSN393MQ45T
	39000	30x35	0.50	5.05	565-2600-ND	4.85	36.76	277.41	ESMH100VSN393MR35T
	47000	25.4x50	0.50	5.73	565-2601-ND	6.55	49.56	374.00	ESMH100VSN473MQ50T
	47000	30x40	0.50	5.72	565-2602-ND	5.38	40.76	307.65	ESMH100VSN473MR40T
	56000	30x45	0.50	6.44	565-2603-ND	5.59	42.30	319.28	ESMH100VSN563MR45T
	68000	35x40	0.50	7.27	565-2604-ND	6.60	49.98	377.20	ESMH100VSN683MA40T
	82000	35x50	0.50	8.49	565-2605-ND	7.34	55.57	419.36	ESMH100VSN823MA50T
16	8200	22x25	0.40	2.51	565-2606-ND	2.28	17.23	130.00	ESMH160VSN822MP25T
	10000	22x25	0.40	2.77	565-2607-ND	2.63	19.88	150.00	ESMH160VSN103MP25T
	12000	22x30	0.40	2.86	565-2608-ND	2.72	20.57	155.24	ESMH160VSN123MP30T
	15000	22x35	0.40	3.29	565-2609-ND	2.87	21.73	164.01	ESMH160VSN153MP35T
	15000	24.5x30	0.40	3.46	565-2610-ND	3.12	23.59	178.00	ESMH160VSN153MQ30T
	18000	22x40	0.40	3.72	565-2611-ND	3.05	23.06	174.00	ESMH160VSN183MP40T
	18000	25.4x35	0.40	3.98	565-2612-ND	3.05	23.06	174.00	ESMH160VSN183MQ35T
	22000	22x50	0.40	4.37	565-2613-ND	3.05	23.06	174.00	ESMH160VSN223MP50T
	22000	25.4x40	0.40	4.26	565-2614-ND	3.65	27.62	208.49	ESMH160VSN223MQ40T
	27000	25.4x45	0.40	4.72	565-2615-ND	3.78	28.62	216.00	ESMH160VSN273MQ45T
	27000	30x35	0.40	4.82	565-2616-ND	4.33	32.75	247.16	ESMH160VSN273MR35T
	33000	25.4x50	0.40	5.33	565-2617-ND	4.03	30.48	230.00	ESMH160VSN333MQ50T
	33000	30x40	0.40	5.36	565-2618-ND	5.23	39.57	298.67	ESMH160VSN333MR40T
	39000	30x45	0.40	6.01	565-2619-ND	6.09	46.11	348.00	ESMH160VSN393MR45T
	47000	30x50	0.40	6.79	565-2620-ND	5.36	40.55	306.00	ESMH160VSN473MR50T
	47000	35x40	0.40	6.76	565-2621-ND	5.88	44.52	336.00	ESMH160VSN473MA40T
	56000	35x45	0.40	7.62	565-2622-ND	6.51	49.29	372.00	ESMH160VSN563MA45T
	68000	35x50	0.40	8.63	565-2623-ND	7.28	55.12	416.00	ESMH160VSN683MA50T
	100000	35x80	0.30	11.39	565-2624-ND	10.46	79.23	597.99	ESMH160VSN104MA80T
25	5600	22x25	0.30	2.21	565-2625-ND	2.35	17.76	134.05	ESMH250VSN562MP25T
	6800	22x30	0.30	2.40	565-2626-ND	2.70	20.41	154.00	ESMH250VSN682MP30T
	6800	25.4x25	0.30	2.56	565-2627-ND	2.67	20.18	152.31	ESMH250VSN682MQ25T
	8200	22x35	0.30	2.72	565-2628-ND	2.95	22.34	168.60	ESMH250VSN822MP35T
	10000	22x40	0.30	3.09	565-2629-ND	2.75	20.82	157.11	ESMH250VSN103MP40T
	10000	25.4x30	0.30	3.12	565-2630-ND	3.33	25.18	190.00	ESMH250VSN103MQ30T
	12000	22x45	0.30	3.48	565-2631-ND	2.98	22.53	170.00	ESMH250VSN123MP45T
	12000	25.4x35	0.30	3.43	565-2632-ND	3.43	25.97	196.00	ESMH250VSN123MQ35T
	15000	22x50	0.30	4.00	565-2633-ND	3.15	23.85	180.00	ESMH250VSN153MP50T
	15000	25.4x40	0.30	3.95	565-2634-ND	3.53	26.76	201.97	ESMH250VSN153MQ40T
	18000	25.4x45	0.30	4.45	565-2635-ND	4.38	33.13	250.00	ESMH250VSN183MQ45T
	18000	30x35	0.30	4.46	565-2636-ND	4.34	32.86	247.99	ESMH250VSN183MR35T
	22000	25.4x50	0.30	5.02	565-2637-ND	4.06	30.74	232.00	ESMH250VSN223MQ50T
	22000	30x45	0.30	5.21	565-2638-ND	4.73	35.78	270.01	ESMH250VSN223MR45T
	27000	30x50	0.30	5.94	565-2639-ND	5.11	38.72	292.26	ESMH250VSN273MR50T
	27000	35x40	0.30	5.92	565-2640-ND	5.73	43.35	327.17	ESMH250VSN273MA40T
	33000	35x45	0.30	6.75	565-2641-ND	5.99	45.32	342.07	ESMH250VSN333MA45T
	39000	35x50	0.30	7.56	565-2642-ND	6.37	48.23	364.00	ESMH250VSN393MA50T
35	3900	22x25	0.25	2.22	565-2643-ND	2.37	17.92	135.25	ESMH350VSN392MP25T
	4700	22x30	0.25	2.41	565-2644-ND	2.41	18.26	137.80	ESMH350VSN472MP30T
	4700	25.4x25	0.25	2.42	565-2645-ND	2.75	20.81	157.05	ESMH350VSN472MQ25T
	5600	22x35	0.25	2.75	565-2646-ND	2.87	21.74	164.09	ESMH350VSN562MP35T
	6800	22x40	0.25	2.80	565-2647-ND	2.76	20.87	157.52	ESMH350VSN682MP40T
	6800	25.4x30	0.25	2.74	565-2648-ND	2.75	20.86	157.42	ESMH350VSN682MQ30T
	8200	22x45	0.25	3.47	565-2649-ND	2.95	22.36	168.72	ESMH350VSN822MP45T
	8200	25.4x35	0.25	3.10	565-2650-ND	2.97	22.52	169.99	ESMH350VSN822MQ35T
	10000	22x50	0.25	3.57	565-2651-ND	3.12	23.59	178.00	ESMH350VSN103MP50T
	10000	25.4x40	0.25	3.53	565-2652-ND	3.60	27.28	205.89	ESMH350VSN103MQ40T
	10000	30x30	0.25	3.46	565-2653-ND	4.66	35.30	266.39	ESMH350VSN103MR30T
	12000	25.4x45	0.25	3.98	565-2654-ND	3.64	27.56	208.00	ESMH350VSN123MQ45T
	12000	30x35	0.25	4.01	565-2655-ND	4.93	37.29	281.46	ESMH350VSN123MR35T
	15000	25.4x50	0.25	4.54	565-2656-ND	3.93	29.77	224.68	ESMH350VSN153MQ50T
	15000	30x40	0.25	4.52	565-2657-ND	5.34	40.45	305.28	ESMH350VSN153MR40T
	15000	35x35	0.25	5.01	565-2658-ND	5.88	44.52	336.00	ESMH350VSN153MA35T
	18000	30x45	0.25	4.71	565-2659-ND	5.11	38.69	292.02	ESMH350VSN183MR45T
	18000	35x40	0.25	5.54	565-2660-ND	5.72	43.30	326.82	ESMH350VSN183MA40T
	22000	30x50	0.25	5.33	565-2661-ND	5.53	41.87	316.00	ESMH350VSN223MR50T
	22000	35x45	0.25	6.04	565-2662-ND	6.57	49.76	375.54	ESMH350VSN223MA45T
	27000	35x45	0.25	6.89	565-2663-ND	6.64	50.30	379.62	ESMH350VSN273MA50T
50	2200	22x25	0.20	1.91	565-2664-ND	2.37	17.97	135.60	ESMH500VSN222MP25T
	3300	22x30	0.20	2.37	565-2665-ND	2.83	21.43	161.72	ESMH500VSN332MP30T
	3900	22x35	0.20	2.65	565-2666-ND	3.02	22.84	172.40	ESMH500VSN392MP35T
	3900	25.4x30	0.20	2.68	565-2667-ND	2.92	22.07	166.58	ESMH500VSN392MQ30T
	4700	22x40	0.20	2.99	565-2668-ND	3.15	23.85	180.00	ESMH500VSN472MP40T
	4700	25.4x35	0.20	3.03	565-2669-ND	3.36	25.44	192.00	ESMH500VSN472MQ35T
	5600	22x45	0.20	3.36	565-2670-ND	3.04	22.99	173.54	ESMH500VSN562MP45T
	5600	25.4x35	0.20	3.31	565-2671-ND	3.52	26.65	201.17	ESMH500VSN562MQ35T
	6800	22x50	0.20	3.81	565-2672-ND	3.35	25.36	191.40	ESMH500VSN682MP50T
	6800	25.4x40	0.20	3.81	565-2673-ND	6.30	47.70	360.00	ESMH500VSN682MQ40T
	6800	30x35	0.20	3.85	565-2674-ND	4.28	32.43	244.79	ESMH500VSN682MR35T
	8200	25.4x50	0.20	4.37	565-2675-ND	4.41	33.39	252.00	ESMH500VSN822MQ50T
	8200	30x40	0.20	4.36	565-2676-ND	3.92	29.68	224.00	ESMH500VSN822MR40T
	10000	30x45	0.20	4.97	565-2677-ND	4.97	37.64	284.04	ESMH500VSN103MR45T
	10000	35x35	0.20	4.92	565-2678-ND	5.42	41.04	309.77	ESMH500VSN103MA35T
	12000	30x50	0.20	5.60	565-2679-ND	5.22	39.56	298.55	ESMH500VSN123MR50T
	12000	35x40	0.20	5.58	565-2680-ND	5.84	44.21	333.63	ESMH500VSN123MA40T
	15000	35x45	0.20	6.44	565-2681-ND	6.34	47.97	362.00	ESMH500VSN153MA45T
	18000	35x50	0.20	6.71	565-2682-ND	6.95	52.65	397.33	ESMH500VSN183MA50T
63	1800	22x25	0.15	1.82	565-2683-ND	2.76	20.90	157.73	ESMH630VSN182MP25T
	2200	22x30	0.15	2.31	565-2684-ND	2.86	21.62	163.18	ESMH630VSN222MP30T
	2700	22x35	0.15	2.40	565-2686-ND	3.04	23.05	173.96	ESMH630VSN272MP35T
	2700	25.4x25	0.15	2.40	565-2685-ND	3.19	24.12	182.00	ESMH630VSN272MQ25T
	3300	22x35	0.15	2.62	565-2688-ND	3.19	24.12	182.00	ESMH630VSN332MP35T
	3300	25.4x30	0.15	2.64	565-2687-ND	3.39	25.66	193.69	ESMH630VSN332MQ30T
	3900	22x40	0.15	2.93	565-2689-ND	3.37	25.54	192.74	ESMH630VSN392MP40T
	3900	25.4x35	0.15	2.97	565-2690-ND	3.65	27.64	208.61	ESMH630VSN392MQ35T
	4700	22x50	0.15	3.39	565-2691-ND	3.70	28.03	211.57	ESMH630VSN472MP50T
	4700	25.4x40	0.15	3.36	565-2692-ND	3.81	28.87	217.89	ESMH630VSN472MQ40T
	5600	25.4x45	0.15	3.77	565-2693-ND	4.18	31.69	239.13	ESMH630VSN562MQ45T
	5600	30x35	0.15	3.75	565-2694-ND	4.53	34.27	258.68	ESMH630VSN562MR35T
	6800	25.4x50	0.15	4.27	565-2695-ND	4.41	33.40	252.05	ESMH630VSN682MQ50T
	6800	30x40	0.15	4.27	565-2696-ND	4.82	36.50	275.49	ESMH630VSN682MR40T
	8200	30x45	0.15	4.83	565-2697-ND	6.06	45.86	346.15	ESMH630VSN822MR45T
	10000	30x50	0.15	5.49	565-2698-ND	5.87	44.44	335.41	ESMH630VSN103MR50T
	10000	35x40	0.15	5.47	565-2699-ND	7.10	53.75	405.64	ESMH630VSN103MA40T
	12000	35x45	0.15	6.19	565-2700-ND	7.69	58.20	439.23	ESMH630VSN123MA45T
100	820	22x25	0.15	1.86	565-2701-ND	2.42	18.29	138.00	ESMH101VSN821MP25T
	1200	22x30	0.15	2.09	565-2702-ND	2.94	22.26	168.00	ESMH101VSN122MP30T
	1500	22x35	0.15	2.41	565-2703-ND	3.15	23.85	180.00	ESMH101VSN152MP35T
	1500	25.4x30	0.15	2.43	565-2704-ND	3.15	23.85	180.00	ESMH101VSN152MQ30T
	1800	22x40	0.15	2.71	565-2705-ND	3.43	25.97	196.00	ESMH101VSN182MP40T
	1800	25.4x35	0.15	2.75	565-2706-ND	3.64	27.56	208.00	ESMH101VSN182MQ35T
	2200	22x45	0.15	3.08	565-2707-ND	3.50	26.50	200.00	ESMH101VSN222MP45T
	2200	25.4x40	0.15	3.13	565-2708-ND	3.92	29.68	224.00	ESMH101VSN222MQ40T
	2700	22x50	0.15	3.53	565-2709-ND	4.03	30.48	230.00	ESMH101VSN272MP50T
	2700	25.4x45	0.15	3.57	565-2710-ND	4.27	32.33	244.00	ESMH101VSN272MQ45T
	2700	30x35	0.15	3.55	565-2711-ND	5.57	42.14	318.00	ESMH101VSN272MR35T
	3300	25.4x50	0.15	4.06	565-2712-ND	4.83	36.57	276.00	ESMH101VSN332MQ50T
	3300	30x40	0.15	4.05	565-2713-ND	4.97	37.63	284.00	ESMH101VSN332MR40T
	3900	30x45	0.15	4.54	565-2714-ND	7.42	56.18	424.00	ESMH101VSN392MR45T
	4700	30x50	0.15	5.13	565-2715-ND	5.67	42.93	324.00	ESMH101VSN472MR50T
	4700	35x40	0.15	5.11	565-2716-ND	6.61	50.08	377.99	ESMH101VSN472MA40T
	5600	35x45	0.15	5.75	565-2717-ND	6.69	50.62	382.00	ESMH101VSN562MA45T
	6800	35x50	0.15	6.50	565-2718-ND	7.70	58.30	440.00	ESMH101VSN682MA50T

UNITED CHEMI-CON

SMQ Series Aluminum Electrolytic Capacitors (Snap-In)

Downsized General Purpose 85°C

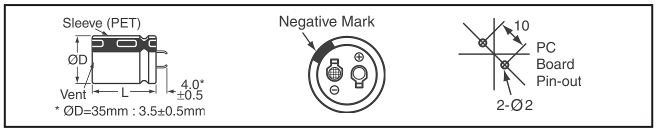

Features: • General Purpose • High Voltage • High CV • High Ripple • 2,000 Hours @ 85°C
Specifications: • Operating Temperature Range: -25°C ~ 85°C • Capacitance Tolerance: ±20% • Leakage Current @ 20°C: 120Hz: 1≤ $3\sqrt{CV}$ (uA) after 5 minutes @ 20ºC

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
160	560	22x25	0.15	2.25	565-2719-ND	2.43	18.40	138.87	ESMQ161VSN561MP25S
	680	22x30	0.15	2.50	565-2720-ND	2.64	19.97	150.71	ESMQ161VSN681MP30S
	820	22x35	0.15	2.75	565-2721-ND	3.07	23.21	175.15	ESMQ161VSN821MP35S
	1000	22x40	0.15	3.00	565-2722-ND	3.35	25.38	191.53	ESMQ161VSN102MP40S
	1000	25.4x30	0.15	3.00	565-2723-ND	3.39	25.65	193.60	ESMQ161VSN102MQ30S
	1500	30x30	0.15	3.73	565-2724-ND	4.57	34.63	261.36	ESMQ161VSN152MR30S
	1800	25.4x45	0.15	4.20	565-2725-ND	4.85	36.73	277.20	ESMQ161VSN182MQ45S
	1800	30x35	0.15	4.20	565-2726-ND	5.25	39.76	300.05	ESMQ161VSN182MR35S
	2200	30x40	0.15	4.78	565-2727-ND	6.22	47.09	355.39	ESMQ161VSN222MR40S
	3300	35x45	0.15	5.75	565-2728-ND	9.05	68.52	517.11	ESMQ161VSN332MA45S
	3900	35x50	0.15	6.00	565-2729-ND	10.35	78.34	591.25	ESMQ161VSN392MA50S
200	390	22x25	0.15	1.68	565-2730-ND	2.32	17.55	132.42	ESMQ201VSN391MP25S
	470	22x30	0.15	1.85	565-2731-ND	2.79	21.10	159.23	ESMQ201VSN471MP30S
	560	22x30	0.15	2.43	565-2732-ND	2.90	21.93	165.48	ESMQ201VSN561MP30S
	680	22x35	0.15	2.68	565-2733-ND	2.66	20.17	152.21	ESMQ201VSN681MP35S
	680	25.4x30	0.15	2.68	565-2734-ND	3.51	26.59	200.67	ESMQ201VSN681MQ30S
	820	22x40	0.15	2.93	565-2735-ND	4.15	31.43	237.17	ESMQ201VSN821MP40S
	1000	22x45	0.15	3.25	565-2736-ND	4.24	32.14	242.56	ESMQ201VSN102MP45S
	1000	25.4x35	0.15	3.25	565-2737-ND	3.86	29.24	220.68	ESMQ201VSN102MQ35S
	1000	30x30	0.15	3.25	565-2738-ND	4.48	33.92	256.00	ESMQ201VSN102MR30S
	1200	25.4x40	0.15	3.50	565-2739-ND	4.57	34.61	261.20	ESMQ201VSN122MQ40S
	1500	25.4x50	0.15	3.87	565-2740-ND	5.62	42.53	321.00	ESMQ201VSN152MQ50S
	1800	30x45	0.15	4.32	565-2741-ND	6.84	51.79	390.85	ESMQ201VSN182MR45S
	2200	30x50	0.15	4.92	565-2742-ND	7.99	60.50	456.60	ESMQ201VSN222MR50S
	2200	35x40	0.15	4.92	565-2743-ND	8.70	65.85	496.96	ESMQ201VSN222MA40S
	2700	35x50	0.15	5.45	565-2744-ND	9.20	69.69	525.98	ESMQ201VSN272MA50S
250	390	22x30	0.15	1.91	565-2745-ND	2.84	21.50	162.23	ESMQ251VSN391MP30S
	470	22x35	0.15	2.11	565-2746-ND	3.42	25.91	195.55	ESMQ251VSN471MP35S
	470	25.4x30	0.15	2.11	565-2747-ND	3.10	23.46	177.06	ESMQ251VSN471MQ30S
	560	22x40	0.15	2.25	565-2748-ND	3.80	28.76	217.06	ESMQ251VSN561MP40S
	560	25.4x30	0.15	2.25	565-2749-ND	3.73	28.26	213.27	ESMQ251VSN561MQ30S
	680	22x45	0.15	2.50	565-2750-ND	4.24	32.14	242.56	ESMQ251VSN681MP45S
	680	25.4x35	0.15	2.50	565-2751-ND	4.22	31.96	241.21	ESMQ251VSN681MQ35S
	820	22x50	0.15	2.77	565-2752-ND	4.72	35.70	269.44	ESMQ251VSN821MP50S
	820	25.4x40	0.15	2.77	565-2753-ND	5.05	38.23	288.54	ESMQ251VSN821MQ40S
	1000	25.4x45	0.15	3.32	565-2754-ND	5.38	40.73	307.36	ESMQ251VSN102MQ45S
	1000	30x35	0.15	3.32	565-2755-ND	5.88	44.53	336.05	ESMQ251VSN102MR35S
	1200	30x40	0.15	3.53	565-2756-ND	6.69	50.65	382.26	ESMQ251VSN122MR40S
	1500	30x50	0.15	4.04	565-2757-ND	8.09	61.22	462.00	ESMQ251VSN152MR50S
	1500	35x40	0.15	4.04	565-2758-ND	8.72	65.99	498.05	ESMQ251VSN152MA40S
	1800	35x45	0.15	4.55	565-2759-ND	9.94	75.23	567.80	ESMQ251VSN182MA45S
350	150	22x25	0.15	1.12	565-2760-ND	2.73	20.65	155.81	ESMQ351VSN151MP25S
	270	25.4x30	0.15	1.66	565-2761-ND	3.47	26.24	198.00	ESMQ351VSN271MQ30S
	390	22x50	0.15	2.06	565-2762-ND	5.37	40.68	307.00	ESMQ351VSN391MP50S
	470	30x35	0.15	2.40	565-2763-ND	5.22	39.54	298.45	ESMQ351VSN471MR35S
	560	30x40	0.15	2.60	565-2764-ND	6.53	49.46	373.25	ESMQ351VSN561MR40S
	680	35x35	0.15	2.96	565-2765-ND	9.48	71.76	541.55	ESMQ351VSN681MA35S
	820	30x50	0.15	3.25	565-2766-ND	10.03	75.98	573.40	ESMQ351VSN821MR50S
	820	35x45	0.15	3.25	565-2767-ND	8.50	64.37	485.85	ESMQ351VSN821MA45S
	1000	35x50	0.15	3.54	565-2768-ND	9.63	72.93	550.42	ESMQ351VSN102MA50S
400	150	22x30	0.15	1.16	565-2769-ND	2.89	21.89	165.20	ESMQ401VSN151MP30S
	180	22x35	0.15	1.44	565-2770-ND	3.06	23.14	174.61	ESMQ401VSN181MP35S
	220	22x40	0.15	1.49	565-2771-ND	3.47	26.27	198.26	ESMQ401VSN221MP40S
	220	25.4x30	0.15	1.49	565-2772-ND	3.74	28.33	213.84	ESMQ401VSN221MQ30S
	270	22x45	0.15	1.67	565-2773-ND	4.32	32.74	247.13	ESMQ401VSN271MP45S
	270	25.4x35	0.15	1.67	565-2774-ND	4.31	32.64	246.34	ESMQ401VSN271MQ35S
	330	22x50	0.15	1.90	565-2775-ND	5.45	41.25	311.34	ESMQ401VSN331MP50S
	330	25.4x40	0.15	1.90	565-2776-ND	5.11	38.66	291.80	ESMQ401VSN331MQ40S
	390	25.4x45	0.15	2.13	565-2777-ND	5.71	43.26	326.46	ESMQ401VSN391MQ45S
	470	25.4x50	0.15	2.39	565-2778-ND	7.13	53.99	407.44	ESMQ401VSN471MQ50S
	470	30x40	0.15	2.39	565-2779-ND	7.01	53.07	400.52	ESMQ401VSN471MR40S
	560	30x45	0.15	2.69	565-2780-ND	8.49	64.25	484.87	ESMQ401VSN561MR45S
	680	30x50	0.15	2.96	565-2781-ND	10.18	77.06	581.58	ESMQ401VSN681MR50S
	680	35x40	0.15	2.96	565-2782-ND	10.92	82.66	623.84	ESMQ401VSN681MA40S
	820	35x45	0.15	3.25	565-2783-ND	12.65	95.75	722.61	ESMQ401VSN821MA45S
450	82	22x25	0.20	0.83	565-2784-ND	2.45	18.55	140.00	ESMQ451VSN820MP25S
	100	22x25	0.20	0.93	565-2785-ND	3.06	23.14	174.61	ESMQ451VSN101MP25S
	120	22x30	0.20	1.04	565-2786-ND	2.91	22.07	166.54	ESMQ451VSN121MP30S
	150	25.4x25	0.20	1.19	565-2787-ND	3.66	27.69	209.00	ESMQ451VSN151MQ25S
	180	22x40	0.20	1.35	565-2788-ND	3.82	28.90	218.12	ESMQ451VSN181MP40S
	180	25.4x30	0.20	1.35	565-2789-ND	4.38	33.17	250.34	ESMQ451VSN181MQ30S
	220	22x45	0.20	1.55	565-2790-ND	4.44	33.59	253.47	ESMQ451VSN221MP45S
	270	22x50	0.20	1.78	565-2792-ND	5.65	42.78	322.89	ESMQ451VSN271MP50S
	270	25.4x40	0.20	1.78	565-2793-ND	5.61	42.50	320.76	ESMQ451VSN271MQ40S
	330	25.4x50	0.20	2.01	565-2794-ND	7.49	56.71	428.00	ESMQ451VSN331MQ50S
	330	30x40	0.20	2.01	565-2795-ND	6.43	48.69	367.48	ESMQ451VSN331MR40S
	390	30x40	0.20	2.24	565-2796-ND	8.13	61.54	464.45	ESMQ451VSN391MR40S
	470	30x45	0.20	2.53	565-2797-ND	9.19	69.55	524.89	ESMQ451VSN471MR45S
	470	35x40	0.20	2.53	565-2798-ND	10.00	75.71	571.36	ESMQ451VSN471MA40S
	560	30x50	0.20	2.82	565-2799-ND	10.32	78.13	589.65	ESMQ451VSN561MR50S
	560	35x45	0.20	2.82	565-2800-ND	10.38	78.62	593.39	ESMQ451VSN561MA45S

KMH Series Aluminum Electrolytic Capacitors (Snap-In)

General Purpose 105°C

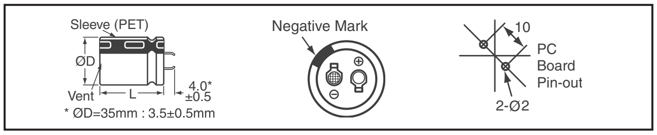

Features:

- General Purpose • High CV • High Ripple • 2,000 Hours @ 105°C

Specifications:

- Operating Temperature Range: -40°C ~ 105°C • Capacitance Tolerance: ±20% • Leakage Current @ 20°C: I=0.02CV or 3mA, whichever is smaller

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
6.3	12000	22x25	0.60	1.54	565-2801-ND	2.62	19.85	149.79	EKMH6R3VSN123MP25T
	15000	22x25	0.60	1.72	565-2802-ND	2.63	19.88	150.00	EKMH6R3VSN153MP25T
	18000	22x30	0.60	1.95	565-2803-ND	2.70	20.41	154.00	EKMH6R3VSN183MP30T
	22000	22x35	0.60	2.23	565-2804-ND	2.79	21.12	159.38	EKMH6R3VSN223MP35T
	22000	25.4x30	0.60	2.25	565-2805-ND	3.08	23.32	176.00	EKMH6R3VSN223MQ30T
	27000	22x40	0.60	2.54	565-2806-ND	3.15	23.83	179.86	EKMH6R3VSN273MP40T
	27000	25.4x35	0.60	2.57	565-2807-ND	3.38	25.61	193.25	EKMH6R3VSN273MQ35T
	39000	30x35	0.60	3.26	565-2808-ND	4.80	36.37	274.48	EKMH6R3VSN393MR35T
	47000	25.4x50	0.60	3.69	565-2809-ND	4.02	30.46	229.91	EKMH6R3VSN473MQ50T
	47000	30x40	0.60	3.69	565-2810-ND	5.11	38.69	292.00	EKMH6R3VSN473MR40T
	56000	30x45	0.60	4.16	565-2811-ND	5.48	41.52	313.35	EKMH6R3VSN563MR45T
	68000	35x40	0.60	4.69	565-2813-ND	6.35	48.11	363.13	EKMH6R3VSN683MA40T
	82000	35x45	0.60	5.32	565-2814-ND	6.88	52.07	393.01	EKMH6R3VSN823MA45T
10	12000	22x30	0.50	1.77	565-2816-ND	2.66	20.14	152.00	EKMH100VSN123MP30T
	15000	25.4x25	0.50	1.96	565-2818-ND	3.01	22.79	172.00	EKMH100VSN153MQ25T
	18000	22x35	0.50	2.21	565-2820-ND	2.96	22.44	169.38	EKMH100VSN183MP35T
	18000	25.4x30	0.50	2.23	565-2819-ND	3.25	24.60	185.65	EKMH100VSN183MQ30T
	22000	25.4x35	0.50	2.54	565-2821-ND	3.33	25.22	190.35	EKMH100VSN223MQ35T
	27000	22x40	0.50	2.51	565-2822-ND	3.61	27.32	206.19	EKMH100VSN273MQ40T
	33000	25.4x45	0.50	3.30	565-2823-ND	3.81	28.85	217.76	EKMH100VSN333MQ45T
	39000	30x40	0.50	3.69	565-2825-ND	5.18	39.22	296.03	EKMH100VSN393MR40T
	56000	35x40	0.50	4.67	565-2829-ND	6.50	49.20	371.31	EKMH100VSN563MA40T
	68000	35x50	0.50	5.46	565-2830-ND	7.07	53.53	404.00	EKMH100VSN683MA50T
16	6800	22x25	0.40	1.57	565-2831-ND	2.29	17.31	130.68	EKMH160VSN682MP25T
	10000	22x30	0.40	1.97	565-2832-ND	2.75	20.84	157.30	EKMH160VSN103MP30T
	10000	25.4x25	0.40	1.97	565-2833-ND	2.60	19.69	148.62	EKMH160VSN103MQ25T
	12000	22x35	0.40	2.22	565-2834-ND	2.58	19.52	147.29	EKMH160VSN123MP35T
	12000	25.4x30	0.40	2.24	565-2835-ND	3.01	22.79	172.00	EKMH160VSN123MQ30T
	15000	22x40	0.40	2.55	565-2836-ND	3.10	23.49	177.31	EKMH160VSN153MP40T
16	15000	25.4x35	0.40	2.58	565-2837-ND	3.39	25.64	193.52	EKMH160VSN153MQ35T
	18000	22x45	0.40	2.87	565-2838-ND	3.33	25.18	190.00	EKMH160VSN183MP45T
	18000	25.4x40	0.40	2.92	565-2839-ND	3.65	27.66	208.76	EKMH160VSN183MQ40T
	22000	25.4x45	0.40	3.32	565-2840-ND	3.61	27.30	206.00	EKMH160VSN223MQ45T
	22000	30x35	0.40	3.29	565-2841-ND	4.74	35.91	270.98	EKMH160VSN223MR35T
	27000	25.4x50	0.40	3.78	565-2842-ND	3.85	29.15	220.00	EKMH160VSN273MQ50T
	27000	30x40	0.40	3.77	565-2843-ND	5.18	39.22	296.02	EKMH160VSN273MR40T
	33000	30x45	0.40	4.30	565-2844-ND	5.67	42.93	324.00	EKMH160VSN333MR45T
	39000	30x50	0.40	4.81	565-2845-ND	6.41	48.50	366.00	EKMH160VSN393MR50T
	39000	35x40	0.40	4.79	565-2846-ND	5.74	43.46	328.00	EKMH160VSN393MA40T
	47000	35x45	0.40	5.43	565-2847-ND	6.51	49.29	372.00	EKMH160VSN473MA45T
25	4700	22x25	0.30	1.50	565-2848-ND	2.62	19.80	149.45	EKMH250VSN472MP25T
	5600	22x25	0.30	1.63	565-2849-ND	2.69	20.34	153.47	EKMH250VSN562MP25T
	6800	22x30	0.30	1.86	565-2850-ND	2.86	21.69	163.67	EKMH250VSN682MP30T
	8200	22x35	0.30	2.11	565-2851-ND	2.87	21.73	164.00	EKMH250VSN822MP35T
	8200	25.4x30	0.30	2.12	565-2852-ND	3.19	24.12	182.00	EKMH250VSN822MQ30T
	10000	22x40	0.30	2.39	565-2853-ND	2.80	21.20	160.00	EKMH250VSN103MP40T
	10000	25.4x35	0.30	2.42	565-2854-ND	3.77	28.52	215.25	EKMH250VSN103MQ35T
	12000	22x45	0.30	2.69	565-2856-ND	3.01	22.79	172.00	EKMH250VSN123MP45T
	12000	25.4x40	0.30	2.74	565-2855-ND	3.60	27.29	205.99	EKMH250VSN123MQ40T
	15000	25.4x45	0.30	3.15	565-2857-ND	3.57	27.03	204.00	EKMH250VSN153MQ45T
	15000	30x35	0.30	3.13	565-2858-ND	4.84	36.67	276.79	EKMH250VSN153MR35T
	18000	25.4x50	0.30	3.54	565-2859-ND	3.92	29.68	224.00	EKMH250VSN183MQ50T
	18000	30x40	0.30	3.54	565-2860-ND	5.12	38.76	292.54	EKMH250VSN183MR40T
	22000	30x45	0.30	4.04	565-2861-ND	5.67	42.93	324.00	EKMH250VSN223MR45T
	27000	35x45	0.30	4.73	565-2862-ND	6.99	52.92	399.41	EKMH250VSN273MA45T
	33000	35x50	0.30	5.39	565-2863-ND	6.44	48.76	368.00	EKMH250VSN333MA50T
35	3300	22x25	0.25	1.40	565-2864-ND	2.66	20.14	151.97	EKMH350VSN332MP25T
	3900	22x30	0.25	1.57	565-2865-ND	2.70	20.41	154.00	EKMH350VSN392MP30T
	4700	22x30	0.25	1.72	565-2866-ND	2.78	21.08	159.06	EKMH350VSN472MP30T
	4700	25.4x25	0.25	1.80	565-2867-ND	3.07	23.26	175.57	EKMH350VSN472MQ25T

(Continued)

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
35	5600	22x35	0.25	1.95	565-2868-ND	2.73	20.67	156.00	EKMH350VSN562MP35T
	5600	25.4x30	0.25	1.96	565-2869-ND	3.33	25.18	190.00	EKMH350VSN562MQ30T
	6800	22x40	0.25	2.20	565-2870-ND	2.84	21.47	162.00	EKMH350VSN682MP40T
	6800	25.4x35	0.25	2.23	565-2871-ND	3.32	25.17	189.94	EKMH350VSN682MQ35T
	8200	22x50	0.25	2.55	565-2872-ND	3.15	23.85	180.00	EKMH350VSN822MP50T
	8200	25.4x40	0.25	2.53	565-2873-ND	3.55	26.88	202.86	EKMH350VSN822MQ40T
	10000	25.4x45	0.25	2.87	565-2874-ND	3.75	28.36	214.00	EKMH350VSN103MQ45T
	10000	30x35	0.25	2.90	565-2875-ND	4.76	36.04	272.00	EKMH350VSN103MR35T
	12000	25.4x50	0.25	3.24	565-2876-ND	4.55	34.45	260.00	EKMH350VSN123MQ50T
	15000	30x45	0.25	3.72	565-2877-ND	5.04	38.16	288.00	EKMH350VSN153MR45T
	15000	35x35	0.25	3.67	565-2878-ND	5.57	42.14	318.00	EKMH350VSN153MA35T
	18000	35x40	0.25	4.37	565-2879-ND	5.88	44.52	336.00	EKMH350VSN183MA40T
	22000	35x50	0.25	4.92	565-2880-ND	7.12	53.90	406.82	EKMH350VSN223MA50T
50	1800	22x25	0.20	1.33	565-2881-ND	2.35	17.80	134.34	EKMH500VSN182MP25T
	2700	22x30	0.20	1.69	565-2882-ND	2.73	20.67	156.00	EKMH500VSN272MP30T
	2700	25.4x25	0.20	1.70	565-2883-ND	2.72	20.59	155.43	EKMH500VSN272MQ25T
	3300	22x35	0.20	1.93	565-2884-ND	2.66	20.13	151.91	EKMH500VSN332MP35T
	3300	25.4x30	0.20	1.85	565-2885-ND	2.86	21.68	163.60	EKMH500VSN332MQ30T
	3900	22x40	0.20	2.16	565-2886-ND	2.80	21.20	160.00	EKMH500VSN392MP40T
	3900	25.4x35	0.20	2.18	565-2887-ND	3.33	25.18	190.00	EKMH500VSN392MQ35T
	4700	22x45	0.20	2.43	565-2888-ND	3.01	22.79	172.00	EKMH500VSN472MP45T
	4700	25.4x35	0.20	2.39	565-2889-ND	3.50	26.50	200.00	EKMH500VSN472MQ35T
	4700	30x30	0.20	2.25	565-2890-ND	4.50	34.07	257.11	EKMH500VSN472MR30T
	5600	22x50	0.20	2.75	565-2891-ND	3.50	26.50	200.00	EKMH500VSN562MP50T
	5600	25.4x4	0.20	2.70	565-2892-ND	3.73	28.26	213.29	EKMH500VSN562MQ40T
	5600	30x35	0.20	2.76	565-2893-ND	4.82	36.53	275.67	EKMH500VSN562MR35T
	6800	25.4x50	0.20	3.30	565-2894-ND	3.78	28.62	216.00	EKMH500VSN682MQ50T
	6800	35x30	0.20	3.25	565-2895-ND	4.34	32.86	248.00	EKMH500VSN682MA30T
	8200	30x45	0.20	3.60	565-2896-ND	4.75	36.00	271.69	EKMH500VSN822MR45T
	8200	35x35	0.20	3.55	565-2897-ND	5.46	41.32	311.82	EKMH500VSN822MA35T
	10000	30x50	0.20	4.04	565-2898-ND	5.12	38.80	292.80	EKMH500VSN103MR50T
	10000	35x40	0.20	4.03	565-2899-ND	5.87	44.42	335.28	EKMH500VSN103MA40T
	12000	35x45	0.20	4.55	565-2900-ND	6.21	47.00	354.75	EKMH500VSN123MA45T
63	1200	22x25	0.15	1.19	565-2901-ND	2.31	17.49	131.98	EKMH630VSN122MP25T
63	1500	22x25	0.15	1.33	565-2902-ND	2.45	18.55	140.00	EKMH630VSN152MP25T
	1800	22x30	0.15	1.51	565-2903-ND	2.43	18.43	139.08	EKMH630VSN182MP30T
	2200	22x35	0.15	1.73	565-2904-ND	2.58	19.51	147.26	EKMH630VSN222MP35T
	2200	25.4x30	0.15	1.74	565-2905-ND	2.83	21.41	161.55	EKMH630VSN222MQ30T
	2700	22x40	0.15	1.97	565-2907-ND	2.75	20.85	157.32	EKMH630VSN272MP40T
	2700	25.4x35	0.15	1.99	565-2906-ND	3.29	24.91	188.00	EKMH630VSN272MQ35T
	3300	22x50	0.15	2.29	565-2908-ND	2.97	22.47	169.62	EKMH630VSN332MP50T
	3300	25.4x40	0.15	2.27	565-2909-ND	3.48	26.35	198.86	EKMH630VSN332MQ40T
	3900	25.4x45	0.15	2.54	565-2910-ND	3.71	28.09	212.00	EKMH630VSN392MQ45T
	3900	30x35	0.15	2.55	565-2911-ND	4.10	31.01	234.00	EKMH630VSN392MR35T
	4700	25.4x50	0.15	2.86	565-2912-ND	3.71	28.09	212.00	EKMH630VSN472MQ50T
	4700	30x40	0.15	2.86	565-2913-ND	4.31	32.60	246.00	EKMH630VSN472MR40T
	5600	30x45	0.15	3.22	565-2914-ND	4.48	33.92	256.00	EKMH630VSN562MR45T
	6800	30x50	0.15	3.65	565-2915-ND	4.83	36.57	276.00	EKMH630VSN682MR50T
	6800	35x40	0.15	3.64	565-2916-ND	5.61	42.46	320.44	EKMH630VSN682MA40T
	8200	35x45	0.15	3.90	565-2917-ND	6.16	46.64	352.00	EKMH630VSN822MA45T
	10000	35x50	0.15	4.40	565-2918-ND	6.65	50.35	380.00	EKMH630VSN103MA40T
100	560	22x25	0.15	10.5	565-2919-ND	2.66	20.14	152.00	EKMH101VSN561MP25T
	820	22x30	0.15	1.32	565-2920-ND	2.59	19.61	148.00	EKMH101VSN821MP30T
	1000	22x35	0.15	1.50	565-2922-ND	3.38	25.57	192.97	EKMH101VSN102MP35T
	1000	25.4x30	0.15	1.51	565-2921-ND	3.33	25.18	190.00	EKMH101VSN102MQ30T
	1200	22x40	0.15	1.69	565-2924-ND	3.26	24.65	186.00	EKMH101VSN122MP40T
	1200	25.4x35	0.15	1.71	565-2923-ND	3.38	25.56	192.92	EKMH101VSN122MQ35T
	1500	22x45	0.15	1.94	565-2925-ND	3.19	24.12	182.00	EKMH101VSN152MP45T
	1500	25.4x40	0.15	1.98	565-2926-ND	3.26	24.65	186.00	EKMH101VSN152MQ40T
	1800	25.4x45	0.15	2.23	565-2928-ND	3.99	30.21	228.00	EKMH101VSN182MQ45T
	1800	30x35	0.15	2.50	565-2927-ND	4.29	32.47	245.08	EKMH101VSN182MR35T
	2200	25.4x50	0.15	2.53	565-2929-ND	3.89	29.42	222.00	EKMH101VSN222MQ50T
	2200	30x40	0.15	2.70	565-2930-ND	4.51	34.18	257.93	EKMH101VSN222MR40T
	2700	30x45	0.15	2.88	565-2931-ND	4.59	34.72	262.00	EKMH101VSN272MR45T
	3300	30x50	0.15	3.28	565-2932-ND	5.46	41.34	312.00	EKMH101VSN332MR50T
	3300	35x40	0.15	3.2	565-2933-ND	7.04	53.27	402.00	EKMH101VSN332MA40T
	3900	35x45	0.15	3.67	565-2934-ND	5.74	43.46	328.00	EKMH101VSN392MA45T
	4700	35x50	0.15	3.80	565-2935-ND	7.42	56.18	424.00	EKMH101VSN472MA50T

KMQ Series Aluminum Electrolytic Capacitors (Snap-In)

Downsized General Purpose 105°C

RoHS COMPLIANT

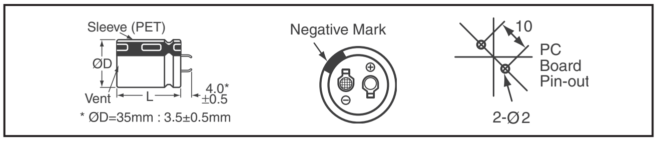

Features:

- General Purpose • High Voltage • High CV • High Ripple • 2,000 Hours @ 105°C

Specifications:

- Operating Temperature Range: -25°C ~ 105°C • Capacitance Tolerance: 20% • Leakage Current @ 20°C: I≤ $3\sqrt{CV}$ (uA) after 5 minutes @ 20°C

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
160	470	22x25	0.15	1.40	565-2936-ND	2.37	17.97	135.65	EKMQ161VSN471MP25S
	680	22x30	0.15	1.70	565-2937-ND	2.82	21.32	160.92	EKMQ161VSN681MP30S
	820	22x35	0.15	2.00	565-2938-ND	3.19	24.13	182.14	EKMQ161VSN821MP35S
	1000	22x40	0.15	2.20	565-2939-ND	3.54	26.80	202.28	EKMQ161VSN102MP40S
	1000	25.4x35	0.15	2.20	565-2940-ND	3.85	29.16	220.06	EKMQ161VSN102MQ35S
	1200	25.4x40	0.15	2.30	565-2941-ND	4.32	32.71	246.88	EKMQ161VSN122MQ40S
	1500	25.4x45	0.15	2.50	565-2942-ND	4.80	36.31	274.00	EKMQ161VSN152MQ45S
	1500	30x35	0.15	2.50	565-2943-ND	5.21	39.48	297.95	EKMQ161VSN152MR35S
	1800	30x40	0.15	2.70	565-2944-ND	5.77	43.71	329.88	EKMQ161VSN182MR40S
	2200	30x45	0.15	2.90	565-2945-ND	6.74	51.00	384.94	EKMQ161VSN222MR45S
	2200	35x35	0.15	2.90	565-2946-ND	7.40	56.06	423.08	EKMQ161VSN222MA35S
	2700	35x40	0.15	3.10	565-2947-ND	8.49	64.28	485.15	EKMQ161VSN272MA40S
	3300	35x50	0.15	3.30	565-2948-ND	10.06	76.17	574.87	EKMQ161VSN332MA50S
200	390	22x25	0.15	1.31	565-2949-ND	2.78	21.07	159.04	EKMQ201VSN391MP25S
	470	22x30	0.15	1.45	565-2950-ND	2.70	20.43	154.19	EKMQ201VSN471MP30S
	560	22x30	0.15	1.67	565-2951-ND	2.94	22.24	167.88	EKMQ201VSN561MP30S
	680	22x40	0.15	1.75	565-2952-ND	3.51	26.59	200.66	EKMQ201VSN681MP40S
	680	25.4x30	0.15	1.75	565-2953-ND	3.47	26.24	198.00	EKMQ201VSN681MQ30S
	820	22x45	0.15	2.04	565-2954-ND	3.99	30.22	228.07	EKMQ201VSN821MP45S
	820	25.4x35	0.15	2.04	565-2955-ND	3.85	29.12	219.76	EKMQ201VSN821MQ35S
	1000	22x50	0.15	2.30	565-2956-ND	4.45	33.67	254.12	EKMQ201VSN102MP50S
	1000	25.4x45	0.15	2.30	565-2957-ND	3.95	29.93	225.88	EKMQ201VSN102MQ45S
	1000	30x30	0.15	2.30	565-2958-ND	6.27	47.44	358.00	EKMQ201VSN102MR30S
	1200	25.4x50	0.15	2.65	565-2959-ND	4.53	34.33	259.06	EKMQ201VSN122MQ50S
	1200	30x35	0.15	2.65	565-2960-ND	5.48	41.46	312.94	EKMQ201VSN122MR35S
	1500	30x40	0.15	2.80	565-2961-ND	6.33	47.91	361.58	EKMQ201VSN152MR40S
	1800	30x45	0.15	3.08	565-2962-ND	4.97	37.66	284.24	EKMQ201VSN182MR45S
	1800	35x40	0.15	3.08	565-2963-ND	7.37	55.77	420.94	EKMQ201VSN182MA40S
	2200	35x45	0.15	3.48	565-2964-ND	11.01	83.39	629.39	EKMQ201VSN222MA45S
250	220	22x25	0.15	1.00	565-2965-ND	2.43	18.39	138.83	EKMQ251VSN221MP25S
	270	22x25	0.15	1.10	565-2966-ND	2.60	19.72	148.82	EKMQ251VSN271MP25S
	330	22x30	0.15	1.20	565-2967-ND	3.01	22.78	171.93	EKMQ251VSN331MP30S
	330	25.4x25	0.15	1.20	565-2968-ND	2.53	19.14	144.47	EKMQ251VSN331MQ25S
	390	22x35	0.15	1.30	565-2969-ND	3.34	25.25	190.59	EKMQ251VSN391MP35S
	470	22x40	0.15	1.40	565-2970-ND	3.34	25.27	190.73	EKMQ251VSN471MP40S
	470	25.4x30	0.15	1.40	565-2971-ND	3.08	23.32	176.00	EKMQ251VSN471MQ30S
	560	22x45	0.15	1.50	565-2972-ND	3.76	28.44	214.64	EKMQ251VSN561MP45S
	560	25.4x35	0.15	1.50	565-2973-ND	3.56	26.97	203.53	EKMQ251VSN561MQ35S
	680	22x50	0.15	1.70	565-2974-ND	4.48	33.92	256.00	EKMQ251VSN681MP50S
	680	25.4x40	0.15	1.70	565-2975-ND	13.76	104.15	786.00	EKMQ251VSN681MQ40S
	820	25.4x45	0.15	2.00	565-2976-ND	5.07	38.41	289.88	EKMQ251VSN821MQ45S
	820	30x35	0.15	2.00	565-2977-ND	5.24	39.65	299.25	EKMQ251VSN821MR35S
	1000	30x40	0.15	2.20	565-2978-ND	5.88	44.55	336.24	EKMQ251VSN102MR40S
	1200	30x45	0.15	2.30	565-2979-ND	7.01	53.06	400.47	EKMQ251VSN122MR45S
	1500	35x45	0.15	2.50	565-2980-ND	8.92	67.52	509.58	EKMQ251VSN152MA45S
	1800	35x50	0.15	2.70	565-2981-ND	10.13	76.70	578.89	EKMQ251VSN182MA50S
350	120	22x25	0.15	0.75	565-2982-ND	2.63	19.88	150.00	EKMQ351VSN121MP25S
	150	22x30	0.15	0.82	565-2983-ND	2.87	21.73	164.00	EKMQ351VSN151MP30S
350	180	22x30	0.15	0.90	565-2984-ND	3.29	24.91	188.00	EKMQ351VSN181MP30S
	220	22x35	0.15	1.00	565-2985-ND	3.71	28.09	212.00	EKMQ351VSN221MP35S
	220	25.4x30	0.15	1.00	565-2986-ND	3.40	25.71	194.00	EKMQ351VSN221MQ30S
	270	30x25	0.15	1.10	565-2987-ND	4.48	33.92	256.00	EKMQ351VSN271MR25S
	330	22x45	0.15	1.20	565-2988-ND	5.72	43.33	326.99	EKMQ351VSN331MP45S
	330	25.4x40	0.15	1.20	565-2989-ND	4.38	33.13	250.00	EKMQ351VSN331MQ40S
	390	25.4x45	0.15	1.30	565-2990-ND	4.83	36.57	276.00	EKMQ351VSN391MQ45S
	390	30x35	0.15	1.30	565-2991-ND	6.37	48.21	363.81	EKMQ351VSN391MR35S
	470	35x30	0.15	1.40	565-2992-ND	6.89	52.14	393.53	EKMQ351VSN471MA30S
	560	35x35	0.15	1.50	565-2993-ND	7.89	59.76	451.04	EKMQ351VSN561MA35S
	680	30x50	0.15	1.70	565-2994-ND	8.73	66.10	498.85	EKMQ351VSN681MR50S
	820	35x45	0.15	1.90	565-2995-ND	10.68	80.83	610.05	EKMQ351VSN821MA45S
400	100	22x25	0.15	0.70	565-2996-ND	2.52	19.08	144.00	EKMQ401VSN101MP25S
	120	22x30	0.15	0.75	565-2997-ND	2.72	20.57	155.27	EKMQ401VSN121MP30S
	150	22x30	0.15	0.88	565-2998-ND	3.35	25.38	191.53	EKMQ401VSN151MP30S
	150	25.4x25	0.15	0.88	565-2999-ND	3.12	23.59	178.00	EKMQ401VSN151MQ25S
	180	22x35	0.15	0.95	565-3000-ND	3.61	27.30	206.00	EKMQ401VSN181MP35S
	180	25.4x30	0.15	0.95	565-3001-ND	3.64	27.56	208.00	EKMQ401VSN181MQ30S
	220	22x45	0.15	1.10	565-3002-ND	4.09	30.93	233.44	EKMQ401VSN221MP45S
	220	25.4x35	0.15	1.10	565-3003-ND	4.09	30.98	233.80	EKMQ401VSN221MQ35S
	270	22x50	0.15	1.22	565-3004-ND	4.71	35.67	269.18	EKMQ401VSN271MP50S
	270	25.4x40	0.15	1.22	565-3005-ND	5.03	38.12	287.69	EKMQ401VSN271MQ40S
	330	25.4x45	0.15	1.44	565-3006-ND	5.55	42.05	317.34	EKMQ401VSN331MQ45S
	330	30x35	0.15	1.44	565-3007-ND	5.84	44.23	333.80	EKMQ401VSN331MR35S
	390	25.4x50	0.15	1.55	565-3008-ND	6.34	48.02	362.39	EKMQ401VSN391MQ50S
	390	30x40	0.15	1.55	565-3009-ND	6.69	50.65	382.26	EKMQ401VSN391MR40S
	470	30x45	0.15	1.68	565-3010-ND	7.83	59.30	447.53	EKMQ401VSN471MR45S
	470	35x35	0.15	1.68	565-3011-ND	8.18	61.97	467.67	EKMQ401VSN471MA35S
	560	30x50	0.15	1.90	565-3012-ND	9.01	68.20	514.68	EKMQ401VSN561MR50S
	560	35x40	0.15	1.90	565-3013-ND	9.45	71.58	540.21	EKMQ401VSN561MA40S
	680	35x45	0.15	2.12	565-3014-ND	11.08	83.86	632.89	EKMQ401VSN681MA45S
450	68	22x25	0.20	0.50	565-3015-ND	2.61	19.73	148.88	EKMQ451VSN680MP25S
	100	22x30	0.20	0.64	565-3016-ND	3.05	23.06	174.00	EKMQ451VSN101MP30S
	100	25.4x25	0.20	0.64	565-3017-ND	3.43	25.97	196.00	EKMQ451VSN101MQ25S
	120	22x35	0.20	0.72	565-3018-ND	3.47	26.24	198.00	EKMQ451VSN121MP35S
	150	22x40	0.20	0.79	565-3019-ND	4.41	33.39	252.00	EKMQ451VSN151MP40S
	150	25.4x30	0.20	0.79	565-3020-ND	4.41	33.39	252.00	EKMQ451VSN151MQ30S
	180	22x45	0.20	0.87	565-3021-ND	4.27	32.33	244.00	EKMQ451VSN181MP45S
	180	25.4x40	0.20	0.87	565-3022-ND	4.59	34.72	262.00	EKMQ451VSN181MQ40S
	220	25.4x45	0.20	1.00	565-3023-ND	5.60	42.40	320.00	EKMQ451VSN221MQ45S
	220	30x30	0.20	1.00	565-3024-ND	5.46	41.34	312.00	EKMQ451VSN221MR30S
	270	25.4x50	0.20	1.19	565-3025-ND	5.99	45.32	342.00	EKMQ451VSN271MQ50S
	270	30x40	0.20	1.19	565-3026-ND	7.35	55.65	420.00	EKMQ451VSN271MR40S
	330	30x45	0.20	1.38	565-3027-ND	7.18	54.35	410.19	EKMQ451VSN331MR45S
	330	35x35	0.20	1.38	565-3028-ND	7.67	58.04	438.00	EKMQ451VSN331MA35S
	390	30x50	0.20	1.55	565-3029-ND	8.05	60.95	460.00	EKMQ451VSN391MR50S
	390	35x40	0.20	1.55	565-3030-ND	10.50	79.50	600.00	EKMQ451VSN391MA40S
	470	35x45	0.20	1.74	565-3031-ND	10.50	79.50	600.00	EKMQ451VSN471MA45S
	560	35x50	0.20	1.90	565-3032-ND	11.47	86.87	655.60	EKMQ451VSN561MA50S

nichicon *NEW!* Decoupling Capacitors for High Frequency

Features:

- Higher Capacitance • Low ESR, High Ripple Current
- Resin-molded chip • Designed for surface mounting on high density PC boards • Load life of 1000 hours at 105°C

Case Code	Dimensions in mm								
	L1	L2	W1	W2	H	S1	S2	S3	P
D	8.5±0.2	7.3±0.2	5.3±0.2	1.3±0.3	2.0Max.	0.9±0.2	0.6±0.2	0.5±0.2	3.3±0.2
F	16.7±0.2	15.6±0.2	12.1±0.2	3.3±0.2	2.5Max.	1.5±0.1	1.3±0.1	1.5±0.2	7.0±0.2

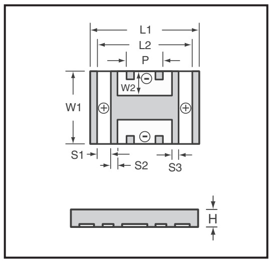

Rated Voltage	Cap. (µF)	Capacitance Tolerance	Case Code	Leakage Current (µA)	Dissipation Factor (% @120Hz)	E.S.R. (mΩ@100kHz)	Digi-Key Part No.	Price Each			Nichicon Part No.
								1	10	100	
2.5	220	±20%	D	55	5	20.0	493-3120-ND	3.19	2.42	1.92	F110E227MDL
	600	±20%	F	150	10	5.0	493-3116-ND	6.76	5.12	4.06	F110E607MFK
	1200	±20%	F	300	10	5.0	493-3117-ND	7.05	5.34	4.24	F110E128MFK
4	100	±20%	D	40	5	20.0	493-3121-ND	3.19	2.42	1.92	F110G107MDL
	800	±20%	F	320	10	5.0	493-3118-ND	6.76	5.12	4.06	F110G807MFK
6.3	47	±20%	D	30	5	20.0	493-3122-ND	3.19	2.42	1.92	F110J476MDL
	600	±20%	F	378	10	5.0	493-3119-ND	6.76	5.12	4.06	F110J607MFK

Solid Tantalum Electrolytic Chip Capacitors (SMT)

Features:

F93 – Standard Series

- General purpose rectangular resin molded chip • Low ESR/Impedance, excellent high frequency characteristics
- Excellent humidity resistance

F91 – Low ESR Series

- Rectangular resin molded chip • Low ESR

F92 – Compact Series

- Low profile, rectangular resin molded chip • Excellent high frequency characteristics • Excellent humidity resistance

F97 – High Reliability Series

- Rectangular resin molded chip • Soldering heat resistance • Superior humidity and environment resistance • High reliability

Specification:

- Operating Temperature Range: -55°C ~ 125°C

Case Code	Dimensions in mm				
	L	W1	W2	H	S
A (F93 / 97)	3.2 ±0.2	1.6 ±0.2	1.2 ±0.1	1.6 ±0.1	0.8 ±0.2
A (F92)	3.2 ±0.2	1.6 ±0.2	1.2 ±0.1	1.1 ±0.1	0.8 ±0.2
B	3.5 ±0.2	2.8 ±0.2	2.2 ±0.1	1.9 ±0.2	0.8 ±0.2
C	6.0 ±0.2	3.2 ±0.2	2.2 ±0.1	2.5 ±0.2	1.3 ±0.2
N	7.3 ±0.2	4.3 ±0.2	2.4 ±0.1	2.8 ±0.2	1.3 ±0.2
P	2.0 ±0.2	1.25 ±0.1	0.9 ±0.1	1.1 ±0.1	0.5 ±0.2

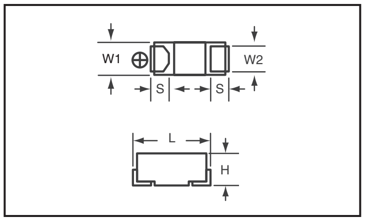

Rated Voltage	Cap. (µF)	Capacitance Tolerance	Case Size	Leakage Current (µA)	Dissipation Factor (% @120Hz)	E.S.R. (Ω@100kHz)	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		Nichicon Part No.
								10	100		Qty.	Pricing	
							F93 – Standard Series						
6.3	3.3	±20%	A	0.5	6	4.5	493-2346-1-ND	1.55	13.26	493-2346-2-ND	2,000	63.00/M	F930J335MAA
	4.7	±20%	A	0.5	6	4.0	493-2347-1-ND	1.59	13.65	493-2347-2-ND	2,000	65.00/M	F930J475MAA
	6.8	±20%	A	0.5	6	3.5	493-2349-1-ND	1.64	14.04	493-2349-2-ND	2,000	67.00/M	F930J685MAA
	10	±20%	A	0.6	6	3.0	493-2340-1-ND	1.64	14.04	493-2340-2-ND	2,000	67.00/M	F930J106MAA
	15	±20%	A	0.9	8	2.9	493-2341-1-ND	1.79	15.30	493-2341-2-ND	2,000	73.00/M	F930J156MAA
	15	±20%	B	0.9	6	2.0	493-2342-1-ND	2.00	17.16	493-2342-2-ND	2,000	82.00/M	F930J156MBA
	22	±20%	A	1.4	8	2.5	493-2343-1-ND	1.87	15.99	493-2343-2-ND	2,000	76.00/M	F930J226MAA
	22	±20%	B	1.4	6	1.9	493-2344-1-ND	2.14	18.33	493-2344-2-ND	2,000	87.00/M	F930J226MBA
	47	±20%	B	3.0	8	1.0	493-2348-1-ND	2.78	23.79	493-2348-2-ND	2,000	107.00/M	F930J476MBA
	68	±20%	C	4.3	8	0.8	493-2350-1-ND	4.50	38.58	493-2350-2-ND	500	115.50	F930J686MCC
	220	±20%	N	13.9	10	0.5	493-2345-1-ND	8.32	71.28	493-2345-2-ND	500	202.00	F930J227MNC
10	2.2	±20%	A	0.5	6	5.0	493-2356-1-ND	1.55	13.26	493-2356-2-ND	2,000	63.00/M	F931A225MAA
	3.3	±20%	A	0.5	6	4.5	493-2358-1-ND	1.55	13.26	493-2358-2-ND	2,000	63.00/M	F931A335MAA
	4.7	±20%	A	0.5	6	4.0	493-2361-1-ND	1.47	12.60	493-2361-2-ND	2,000	60.00/M	F931A475MAA
	10	±20%	A	1.0	6	3.0	493-2351-1-ND	1.40	12.00	493-2351-2-ND	2,000	57.00/M	F931A106MAA
	10	±20%	B	1.0	6	2.1	493-2352-1-ND	2.00	17.16	493-2352-2-ND	2,000	82.00/M	F931A106MBA
	15	±20%	B	1.5	6	2.0	493-2354-1-ND	2.14	18.33	493-2354-2-ND	2,000	87.00/M	F931A156MBA
	22	±20%	B	2.2	8	1.9	493-2357-1-ND	2.10	18.00	493-2357-2-ND	2,000	86.00/M	F931A226MBA
	33	±20%	B	3.3	8	1.4	493-2359-1-ND	2.91	24.93	493-2359-2-ND	2,000	112.00/M	F931A336MBA
	33	±20%	C	3.3	6	1.1	493-2360-1-ND	4.23	36.24	493-2360-2-ND	500	108.50	F931A336MCC
	47	±20%	C	4.7	8	0.9	493-2362-1-ND	4.50	38.58	493-2362-2-ND	500	115.50	F931A476MCC
	68	±20%	N	6.8	6	0.6	493-2363-1-ND	6.41	54.96	493-2363-2-ND	500	155.50	F931A686MNC
	100	±20%	N	10.0	10	0.6	493-2353-1-ND	7.07	60.60	493-2353-2-ND	500	171.50	F931A107MNC
	150	±20%	N	15.0	10	0.6	493-2355-1-ND	8.43	72.24	493-2355-2-ND	500	204.50	F931A157MNC
16	1	±20%	A	0.5	4	7.5	493-2364-1-ND	1.55	13.26	493-2364-2-ND	2,000	63.00/M	F931C105MAA
	1.5	±20%	A	0.5	6	6.0	493-2366-1-ND	1.55	13.26	493-2366-2-ND	2,000	63.00/M	F931C155MAA
	2.2	±20%	A	0.5	6	5.0	493-2368-1-ND	1.47	12.60	493-2368-2-ND	2,000	60.00/M	F931C225MAA
	3.3	±20%	A	0.5	6	4.5	493-2370-1-ND	1.47	12.60	493-2370-2-ND	2,000	60.00/M	F931C335MAA
	4.7	±20%	A	0.8	6	4.0	493-2372-1-ND	1.47	12.60	493-2372-2-ND	2,000	60.00/M	F931C475MAA
	6.8	±20%	A	1.1	6	3.5	493-2374-1-ND	1.68	14.43	493-2374-2-ND	2,000	69.00/M	F931C685MAA
	6.8	±20%	B	1.1	6	2.5	493-2375-1-ND	2.00	17.16	493-2375-2-ND	2,000	82.00/M	F931C685MBA
	10	±20%	B	1.6	6	2.0	493-2365-1-ND	2.09	17.94	493-2365-2-ND	2,000	85.00/M	F931C106MBA
	15	±20%	B	2.4	8	2.0	493-2367-1-ND	2.28	19.50	493-2367-2-ND	2,000	93.00/M	F931C156MBA
	22	±20%	C	3.5	6	1.1	493-2369-1-ND	4.23	36.24	493-2369-2-ND	500	108.50	F931C226MCC
	33	±20%	C	5.3	8	1.1	493-2371-1-ND	4.50	38.58	493-2371-2-ND	500	115.50	F931C336MCC
	47	±20%	N	7.5	6	0.7	493-2373-1-ND	6.09	52.23	493-2373-2-ND	500	148.00	F931C476MNC
	68	±20%	N	10.9	8	0.6	493-2376-1-ND	7.19	61.59	493-2376-2-ND	500	174.50	F931C686MNC
20	1.5	±20%	A	0.5	6	6.3	493-2378-1-ND	1.55	13.26	493-2378-2-ND	2,000	63.00/M	F931D155MAA
	2.2	±20%	A	0.5	6	5.0	493-2380-1-ND	1.47	12.60	493-2380-2-ND	2,000	60.00/M	F931D225MAA
	3.3	±20%	A	0.7	6	4.5	493-2382-1-ND	1.91	16.38	493-2382-2-ND	2,000	78.00/M	F931D335MAA
	4.7	±20%	A	0.9	6	4.0	493-2384-1-ND	2.42	20.70	493-2384-2-ND	2,000	98.00/M	F931D475MAA
	4.7	±20%	B	0.9	6	2.8	493-2385-1-ND	2.42	20.70	493-2385-2-ND	2,000	98.00/M	F931D475MBA
	6.8	±20%	B	1.4	6	2.5	493-2386-1-ND	2.55	21.84	493-2386-2-ND	2,000	98.00/M	F931D685MBA
	10	±20%	B	2.0	6	2.1	493-2377-1-ND	3.34	28.62	493-2377-2-ND	2,000	129.00/M	F931D106MBA
	15	±20%	C	3.0	6	1.2	493-2379-1-ND	4.23	36.24	493-2379-2-ND	500	108.50	F931D156MCC
	22	±20%	C	4.4	8	1.1	493-2381-1-ND	4.50	38.58	493-2381-2-ND	500	115.50	F931D226MCC
	33	±20%	N	6.6	6	0.7	493-2383-1-ND	6.41	54.96	493-2383-2-ND	500	155.50	F931D336MNC
25	.68	±20%	A	0.5	4	7.6	493-2394-1-ND	1.55	13.26	493-2394-2-ND	2,000	63.00/M	F931E684MAA
	1	±20%	A	0.5	4	7.5	493-2387-1-ND	1.55	13.26	493-2387-2-ND	2,000	63.00/M	F931E105MAA
	1.5	±20%	A	0.5	6	6.7	493-2389-1-ND	1.59	13.65	493-2389-2-ND	2,000	65.00/M	F931E155MAA
	2.2	±20%	A	0.6	6	6.3	493-2390-1-ND	1.68	14.43	493-2390-2-ND	2,000	69.00/M	F931E225MAA
	3.3	±20%	B	0.8	6	3.1	493-2392-1-ND	2.55	21.84	493-2392-2-ND	2,000	98.00/M	F931E335MBA
	4.7	±20%	B	1.2	6	2.8	493-2393-1-ND	2.67	22.92	493-2393-2-ND	2,000	103.00/M	F931E475MBA
	6.8	±20%	C	1.7	6	1.8	493-2395-1-ND	3.91	33.51	493-2395-2-ND	500	100.50	F931E685MCC
	10	±20%	C	2.5	6	1.5	493-2388-1-ND	4.23	36.24	493-2388-2-ND	500	108.50	F931E106MCC
	22	±20%	N	5.5	6	0.7	493-2391-1-ND	6.28	53.79	493-2391-2-ND	500	152.50	F931E226MNC
35	.47	±20%	A	0.5	4	10.0	493-2402-1-ND	1.55	13.26	493-2402-2-ND	2,000	63.00/M	F931V474MAA
	.68	±20%	A	0.5	4	7.6	493-2404-1-ND	1.55	13.26	493-2404-2-ND	2,000	63.00/M	F931V684MAA
	1	±20%	A	0.5	4	7.5	493-2396-1-ND	1.59	13.65	493-2396-2-ND	2,000	65.00/M	F931V105MAA
	1.5	±20%	A	0.5	6	7.5	493-2398-1-ND	1.47	12.60	493-2398-2-ND	2,000	60.00/M	F931V155MAA
	2.2	±20%	B	0.8	6	3.8	493-2400-1-ND	2.00	17.16	493-2400-2-ND	2,000	82.00/M	F931V225MBA
	3.3	±20%	B	1.2	6	3.5	493-2401-1-ND	2.67	22.92	493-2401-2-ND	2,000	103.00/M	F931V335MBA
	4.7	±20%	C	1.6	6	1.8	493-2403-1-ND	4.00	34.29	493-2403-2-ND	500	103.00	F931V475MCC
	6.8	±20%	C	2.4	6	1.8	493-2405-1-ND	4.46	38.19	493-2405-2-ND	500	114.50	F931V685MCC
	10	±20%	C	3.5	6	1.6	493-2397-1-ND	6.64	56.91	493-2397-2-ND	500	161.00	F931V106MCC
	15	±20%	N	5.3	6	0.7	493-2399-1-ND	6.64	56.91	493-2399-2-ND	500	161.00	F931V156MNC

(Continued)

Rated Voltage	Cap. (µF)	Capacitance Tolerance	Case Size	Leakage Current (µA)	Dissipation Factor (% @120Hz)	E.S.R. (Ω@100kHz)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Nichicon Part No.
F91 – Low ESR Series													
6.3	100	±20%	C	6.3	10	.250	493-2309-1-ND	9.03	77.37	493-2309-2-ND	500	206.50	F910J107MCC
	150	±20%	N	9.5	10	.100	493-2310-1-ND	13.42	115.05	493-2310-2-ND	500	307.00	F910J157MNC
	220	±20%	N	13.9	10	.100	493-2311-1-ND	13.69	117.30	493-2311-2-ND	500	313.00	F910J227MNC
10	47	±20%	C	4.7	8	.400	493-2314-1-ND	9.03	77.37	493-2314-2-ND	500	206.50	F911A476MCC
	100	±20%	N	10	10	.100	493-2312-1-ND	13.42	115.05	493-2312-2-ND	500	307.00	F911A107MNC
	150	±20%	N	15.0	10	.100	493-2313-1-ND	13.69	117.30	493-2313-2-ND	500	313.00	F911A157MNC
16	33	±20%	C	5.3	8	.400	493-2315-1-ND	9.03	77.37	493-2315-2-ND	500	206.50	F911C336MCC
	47	±20%	N	7.5	6	.150	493-2316-1-ND	12.08	103.50	493-2316-2-ND	500	276.00	F911C476MNC
20	15	±20%	C	3	6	.450	493-2317-1-ND	9.03	77.37	493-2317-2-ND	500	206.50	F911D156MCC
	33	±20%	N	6.6	6	.200	493-2318-1-ND	13.42	115.05	493-2318-2-ND	500	307.00	F911D336MNC
25	10	±20%	C	2.5	6	.450	493-2319-1-ND	11.17	95.70	493-2319-2-ND	500	255.00	F911E106MCC
	22	±20%	N	5.5	6	.200	493-2320-1-ND	13.42	115.05	493-2320-2-ND	500	307.00	F911E226MNC
	33	±20%	N	8.3	8	.200	493-2321-1-ND	13.42	115.05	493-2321-2-ND	500	307.00	F911E336MNC
35	6.8	±20%	C	2.4	6	.600	493-2325-1-ND	9.03	77.37	493-2325-2-ND	500	206.50	F911V685MCC
	10	±20%	N	3.5	6	.300	493-2322-1-ND	13.42	115.05	493-2322-2-ND	500	307.00	F911V106MNC
	15	±20%	N	5.3	6	.300	493-2323-1-ND	13.42	115.05	493-2323-2-ND	500	307.00	F911V156MNC
	22	±20%	N	7.7	8	.300	493-2324-1-ND	13.42	115.05	493-2324-2-ND	500	307.00	F911V226MNC
F92 – Compact Series													
4	2.2	±20%	P	0.5	8	12.0	493-2326-1-ND	2.37	20.28	493-2326-2-ND	3,000	96.00/M	F920G225MPA
	22	±20%	P	0.9	20	5.0	493-2327-1-ND	3.47	29.70	493-2327-2-ND	3,000	134.00/M	F920G226MPA
6.3	1.5	±20%	P	0.5	8	12.0	493-2329-1-ND	2.37	20.28	493-2329-2-ND	3,000	96.00/M	F920J155MPA
	10	±20%	P	0.6	10	6.0	493-2328-1-ND	3.33	28.50	493-2328-2-ND	3,000	128.00/M	F920J106MPA
10	1	±20%	P	0.5	8	12.0	493-2330-1-ND	2.66	22.80	493-2330-2-ND	3,000	103.00/M	F921A105MPA
	2.2	±20%	P	0.5	8	12.0	493-2331-1-ND	4.59	39.30	493-2331-2-ND	3,000	173.00/M	F921A225MPA
	3.3	±20%	P	0.5	8	12.0	493-2332-1-ND	3.37	28.86	493-2332-2-ND	3,000	130.00/M	F921A335MPA
	4.7	±20%	P	0.5	8	6.0	493-2333-1-ND	4.73	40.50	493-2333-2-ND	3,000	178.00/M	F921A475MPA
16	.68	±20%	P	0.5	8	12.0	493-2335-1-ND	2.46	21.06	493-2335-2-ND	3,000	95.00/M	F921C684MPA
	1	±20%	P	0.5	8	12.0	493-2334-1-ND	2.50	21.45	493-2334-2-ND	3,000	97.00/M	F921C105MPA
35	0.1	±20%	A	0.5	4	10.0	493-2336-1-ND	1.73	14.82	493-2336-2-ND	2,500	70.00/M	F921V104MAA
	.15	±20%	A	0.5	4	10.0	493-2337-1-ND	1.73	14.82	493-2337-2-ND	2,500	70.00/M	F921V154MAA
	.22	±20%	A	0.5	4	10.0	493-2338-1-ND	1.73	14.82	493-2338-2-ND	2,500	70.00/M	F921V224MAA
	.33	±20%	A	0.5	4	10.0	493-2339-1-ND	1.81	15.48	493-2339-2-ND	2,500	74.00/M	F921V334MAA
F97 – High Reliability Series													
6.3	3.3	±20%	A	0.5	6	4.5	493-2407-1-ND	1.73	14.82	493-2407-2-ND	2,000	70.00/M	F970J335MAA
	6.8	±20%	B	0.5	6	2.5	493-2409-1-ND	3.37	28.89	493-2409-2-ND	2,000	130.00/M	F970J685MBA
	22	±20%	C	1.4	6	1.1	493-2406-1-ND	6.13	52.50	493-2406-2-ND	500	149.00	F970J226MCC
	47	±20%	N	3.0	6	0.7	493-2408-1-ND	7.44	63.75	493-2408-2-ND	500	180.50	F970J476MNC
	68	±20%	N	4.3	6	0.6	493-2410-1-ND	6.72	57.60	493-2410-2-ND	500	163.00	F970J686MNC
10	2.2	±20%	A	0.5	6	5.0	493-2412-1-ND	3.82	32.70	493-2412-2-ND	2,000	155.00/M	F971A225MAA
	4.7	±20%	B	0.5	6	2.8	493-2414-1-ND	3.37	28.89	493-2414-2-ND	2,000	130.00/M	F971A475MBA
	15	±20%	C	1.5	6	1.2	493-2411-1-ND	6.13	52.50	493-2411-2-ND	500	149.00	F971A156MCC
	33	±20%	N	3.3	6	0.7	493-2413-1-ND	7.44	63.75	493-2413-2-ND	500	180.50	F971A336MNC
	47	±20%	N	4.7	6	0.7	493-2415-1-ND	6.72	57.60	493-2415-2-ND	500	163.00	F971A476MNC
16	1	±20%	A	0.5	4	7.5	493-2416-1-ND	3.28	28.14	493-2416-2-ND	2,000	127.00/M	F971C105MAA
	1.5	±20%	A	0.5	4	6.3	493-2418-1-ND	1.73	14.82	493-2418-2-ND	2,000	70.00/M	F971C155MAA
	3.3	±20%	B	0.5	6	3.1	493-2420-1-ND	3.37	28.89	493-2420-2-ND	2,000	130.00/M	F971C335MBA
	4.7	±20%	B	0.8	6	2.8	493-2422-1-ND	2.96	25.38	493-2422-2-ND	2,000	114.00/M	F971C475MBA
	10	±20%	C	1.6	6	1.5	493-2417-1-ND	6.13	52.50	493-2417-2-ND	500	149.00	F971C106MCC
	22	±20%	N	3.5	6	0.7	493-2419-1-ND	7.44	63.75	493-2419-2-ND	500	180.50	F971C226MNC
	33	±20%	N	5.3	6	0.7	493-2421-1-ND	6.72	57.60	493-2421-2-ND	500	163.00	F971C336MNC
20	.68	±20%	A	0.5	4	7.6	493-2425-1-ND	3.28	28.14	—	—	—	F971D684MAA
	2.2	±20%	B	0.5	6	3.8	493-2424-1-ND	3.37	28.89	493-2424-2-ND	2,000	130.00/M	F971D225MBA
	6.8	±20%	C	1.4	6	1.8	493-2426-1-ND	6.13	52.50	493-2426-2-ND	500	149.00	F971D685MCC
	15	±20%	N	3.0	6	0.7	493-2423-1-ND	7.44	63.75	493-2423-2-ND	500	180.50	F971D156MNC
25	.47	±20%	A	0.5	4	10.0	493-2429-1-ND	3.28	28.14	493-2429-2-ND	2,000	127.00/M	F971E474MAA
	1.5	±20%	B	0.5	4	4.0	493-2428-1-ND	3.37	28.89	493-2428-2-ND	2,000	130.00/M	F971E155MBA
	4.7	±20%	C	1.2	6	1.8	493-2430-1-ND	6.13	52.50	493-2430-2-ND	500	149.00	F971E475MCC
	10	±20%	N	2.5	6	1.0	493-2427-1-ND	7.44	63.75	493-2427-2-ND	500	180.50	F971E106MNC
35	.1	±20%	A	0.5	4	15.0	493-2431-1-ND	3.28	28.14	493-2431-2-ND	2,000	127.00/M	F971V104MAA
	.15	±20%	A	0.5	4	15.0	493-2433-1-ND	3.28	28.14	493-2433-2-ND	2,000	127.00/M	F971V154MAA
	.22	±20%	A	0.5	4	12.0	493-2435-1-ND	3.28	28.14	493-2435-2-ND	2,000	127.00/M	F971V224MAA
	.33	±20%	A	0.5	4	12.0	493-2437-1-ND	3.28	28.14	493-2437-2-ND	2,000	127.00/M	F971V334MAA
	.47	±20%	B	0.5	4	5.0	493-2439-1-ND	3.37	28.89	493-2439-2-ND	2,000	130.00/M	F971V474MBA
	.68	±20%	B	0.5	4	5.0	493-2441-1-ND	3.37	28.89	493-2441-2-ND	2,000	130.00/M	F971V684MBA
	1	±20%	B	0.5	4	4.0	493-2432-1-ND	3.37	28.89	493-2432-2-ND	2,000	130.00/M	F971V105MBA
	1.5	±20%	C	0.5	4	2.0	493-2434-1-ND	4.41	37.80	493-2434-2-ND	750	151.50	F971V155MCMBMA
	2.2	±20%	C	0.8	6	2.0	493-2436-1-ND	5.25	45.00	493-2436-2-ND	500	127.50	F971V225MCC
	3.3	±20%	C	1.2	6	2.0	493-2438-1-ND	6.13	52.50	493-2438-2-ND	500	149.00	F971V335MCC
	4.7	±20%	N	1.6	6	1.0	493-2440-1-ND	7.22	61.89	493-2440-2-ND	500	175.50	F971V475MNC
	6.8	±20%	N	2.4	6	1.0	493-2442-1-ND	7.44	63.75	493-2442-2-ND	500	180.50	F971V685MNC

Solid Tantalum Electrolytic Chip Capacitors (SMT) — Frameless™

Features:

F95 Series: • Low profile, small rectangular conformal coated chip • Low ESR/Impedance, excellent high frequency characteristics • Soldering heat resistance

F98 Series: • Small and low profile resin molded chip • High density mounting • High capacitance

Specification:

- Operating Temperature Range: -55°C ~ 125°C

Applications:

• Mobile phones • Mobile audio players • USB drives • Flash memory cards • PCMCIA/PC cards • Medical • Modems • MP3 players

Case Code	F95 Series — Dimensions in mm					
	L	W	H	A	B	C
P	2.2 ±0.3	1.25 ±0.3	1.0 ±0.2	0.6 ±0.3	0.8 ±0.3	0.8 ±0.3
Q	3.2 ±0.2	1.6 ±0.2	0.8 ±0.2	0.8 ±0.2	1.2 ±0.2	0.8 ±0.2
S	3.2 ±0.3	1.6 ±0.3	1.0 ±0.2	0.8 ±0.3	1.2 ±0.3	0.8 ±0.3
A	3.2 ±0.3	1.7 ±0.3	1.4 ±0.2	0.8 ±0.3	1.2 ±0.3	0.8 ±0.3
T	3.5 ±0.2	2.7 ±0.2	1.0 ±0.2	0.8 ±0.2	1.2 ±0.2	1.1 ±0.2
B	3.3 ±0.3	2.7 ±0.3	1.8 ±0.2	0.8 ±0.3	1.2 ±0.3	1.1 ±0.3

Case Code	F98 Series — Dimensions in mm					
	L	W1	W2	H	S1	S2
M	1.6 ±0.1	0.85 ±0.1	0.65 ±0.1	0.8 ±0.1	0.5 ±0.1	0.6 ±0.1
S	2.0 ±0.1	1.25 ±0.1	0.9 ±0.1	0.8 ±0.1	0.5 ±0.1	1.0 ±0.1

F95 Series

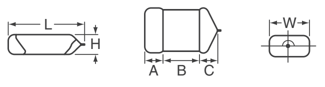

F98 Series

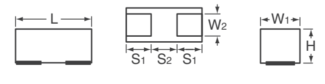

Rated Voltage	Cap. (µF)	Capacitance Tolerance	Case Size	Leakage Current (µA)	Dissipation Factor (% @120Hz)	E.S.R. (Ω@100kHz)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Nichicon Part No.
F95 Series													
4	15	±20%	P	0.6	10	1.8	493-2887-1-ND	3.78	32.40	493-2887-2-ND	3,000	146.00/M	F950G156MPAAQ2
	22	±20%	P	0.9	14	1.1	493-2888-1-ND	4.94	42.30	493-2888-2-ND	3,000	186.00/M	F950G226MPAAQ2
	33	±20%	P	1.3	14	1.1	493-2889-1-ND	5.08	43.50	493-2889-2-ND	3,000	191.00/M	F950G336MPAAQ2
	47	±20%	P	1.9	14	1.1	493-2890-1-ND	5.43	46.50	493-2890-2-ND	3,000	205.00/M	F950G476MPAAQ2
	47	±20%	Q	1.9	10	1.1	493-2891-1-ND	5.78	49.50	493-2891-2-ND	2,500	218.00/M	F950G476MQAAQ2

(Continued)

Rated Voltage	Cap. (µF)	Capacitance Tolerance	Case Size	Leakage Current (µA)	Dissipation Factor (% @120Hz)	E.S.R. (Ω@100kHz)	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		Nichicon Part No.
								10	100		Qty.	Pricing	
4	47	±20%	A	1.9	8	0.6	493-2892-1-ND	5.81	49.80	493-2892-2-ND	2,500	219.00/M	F950G476MAAAQ2
	68	±20%	S	2.7	10	0.8	493-2893-1-ND	6.79	58.20	493-2893-2-ND	2,500	256.00/M	F950G686MSAAQ2
	68	±20%	A	2.7	10	0.5	493-2894-1-ND	6.02	51.60	493-2894-2-ND	2,500	227.00/M	F950G686MAAAQ2
	100	±20%	S	4.0	14	0.8	493-2895-1-ND	7.74	66.30	493-2895-2-ND	2,500	292.00/M	F950G107MSAAQ2
	100	±20%	A	4.0	12	0.5	493-2896-1-ND	7.74	66.30	493-2896-2-ND	2,500	292.00/M	F950G107MAAAQ2
	150	±20%	B	6.0	14	0.4	493-2897-1-ND	12.08	103.50	493-2897-2-ND	2,000	449.00/M	F950G157MBAAQ2
	220	±20%	S	8.8	25	0.8	493-2898-1-ND	7.74	66.30	493-2898-2-ND	2,500	292.00/M	F950G227MSAAQ2
	220	±20%	T	8.8	25	0.6	493-2899-1-ND	10.57	90.60	493-2899-2-ND	2,500	393.00/M	F950G227MTAAQ2
	220	±20%	B	8.8	16	0.4	493-2900-1-ND	17.50	150.00	493-2900-2-ND	2,000	638.00/M	F950G227MBAAQ2
6.3	10	±20%	P	0.6	8	2.0	493-2901-1-ND	3.78	32.40	493-2901-2-ND	3,000	146.00/M	F950J106MPAAQ2
	15	±20%	P	0.9	10	1.8	493-2902-1-ND	4.94	42.30	493-2902-2-ND	3,000	186.00/M	F950J156MPAAQ2
	22	±20%	P	1.4	14	1.1	493-2903-1-ND	5.08	43.50	493-2903-2-ND	3,000	191.00/M	F950J226MPAAQ2
	33	±20%	P	2.1	14	1.1	493-2904-1-ND	5.18	44.40	493-2904-2-ND	3,000	195.00/M	F950J336MPAAQ2
	33	±20%	Q	2.1	10	2.0	493-2905-1-ND	5.78	49.50	493-2905-2-ND	2,500	218.00/M	F950J336MQAAQ2
	33	±20%	S	2.1	10	1.0	493-2906-1-ND	6.55	56.10	493-2906-2-ND	2,500	247.00/M	F950J336MSAAQ2
	33	±20%	A	2.1	8	0.8	493-2907-1-ND	5.29	45.30	493-2907-2-ND	2,500	199.00/M	F950J336MAAAQ2
	47	±20%	P	3.0	20	1.1	493-2908-1-ND	5.18	44.40	493-2908-2-ND	3,000	195.00/M	F950J476MPAAQ2
	47	±20%	Q	3.0	10	1.1	493-2909-1-ND	5.43	46.50	493-2909-2-ND	2,500	205.00/M	F950J476MQAAQ2
	47	±20%	S	3.0	10	0.9	493-2910-1-ND	6.79	58.20	493-2910-2-ND	2,500	256.00/M	F950J476MSAAQ2
	47	±20%	A	3.0	10	0.6	493-2911-1-ND	6.16	52.80	493-2911-2-ND	2,500	232.00/M	F950J476MAAAQ2
	68	±20%	S	4.3	14	0.9	493-2912-1-ND	7.70	66.00	493-2912-2-ND	2,500	290.00/M	F950J686MSAAQ2
	68	±20%	A	4.3	12	0.5	493-2913-1-ND	6.76	57.90	493-2913-2-ND	2,500	255.00/M	F950J686MAAAQ2
	100	±20%	A	6.3	14	0.5	493-2914-1-ND	8.68	74.40	493-2914-2-ND	2,500	327.00/M	F950J107MAAAQ2
	100	±20%	T	6.3	14	0.6	493-2915-1-ND	7.18	61.50	493-2915-2-ND	2,500	271.00/M	F950J107MTAAQ2
	100	±20%	B	6.3	14	0.4	493-2916-1-ND	12.11	103.80	493-2916-2-ND	2,000	450.00/M	F950J107MBAAQ2
	150	±20%	B	9.5	18	0.4	493-2917-1-ND	17.50	150.00	493-2917-2-ND	2,000	638.00/M	F950J157MBAAQ2
	220	±20%	B	13.9	30	0.4	493-2918-1-ND	17.50	150.00	493-2918-2-ND	2,000	638.00/M	F950J227MBAAQ2
10	3.3	±20%	P	0.5	8	5.0	493-2919-1-ND	2.91	24.90	493-2919-2-ND	3,000	112.00/M	F951A335MPAAQ2
	4.7	±20%	P	0.5	8	4.0	493-2920-1-ND	3.15	27.00	493-2920-2-ND	3,000	122.00/M	F951A475MPAAQ2
	6.8	±20%	P	0.7	8	4.0	493-2921-1-ND	3.78	32.40	493-2921-2-ND	3,000	146.00/M	F951A685MPAAQ2
	10	±20%	P	1.0	8	3.0	493-2922-1-ND	4.97	42.60	493-2922-2-ND	3,000	187.00/M	F951A106MPAAQ2
	15	±20%	P	1.5	10	3.0	493-2923-1-ND	5.08	43.50	493-2923-2-ND	3,000	191.00/M	F951A156MPAAQ2
	22	±20%	P	2.2	14	3.0	493-2924-1-ND	5.08	43.50	493-2924-2-ND	3,000	191.00/M	F951A226MPAAQ2
	22	±20%	Q	2.2	10	2.0	493-2925-1-ND	4.48	38.40	493-2925-2-ND	2,500	173.00/M	F951A226MQAAQ2
	22	±20%	S	2.2	10	1.1	493-2926-1-ND	6.51	55.80	493-2926-2-ND	2,500	246.00/M	F951A226MSAAQ2
	22	±20%	A	2.2	6	0.9	493-2927-1-ND	5.81	49.80	493-2927-2-ND	2,500	219.00/M	F951A226MAAAQ2
	33	±20%	S	3.3	10	1.1	493-2928-1-ND	6.79	58.20	493-2928-2-ND	2,500	256.00/M	F951A336MSAAQ2
	33	±20%	A	3.3	10	0.8	493-2929-1-ND	6.02	51.60	493-2929-2-ND	2,500	227.00/M	F951A336MAAAQ2
	47	±20%	A	4.7	10	0.8	493-2930-1-ND	6.97	59.70	493-2930-2-ND	2,500	263.00/M	F951A476MAAAQ2
	47	±20%	T	4.7	12	0.8	493-2931-1-ND	7.18	61.50	493-2931-2-ND	2,500	271.00/M	F951A476MTAAQ2
	47	±20%	B	4.7	8	0.4	493-2932-1-ND	6.97	59.70	493-2932-2-ND	2,000	263.00/M	F951A476MBAAQ2
	68	±20%	B	6.8	12	0.4	493-2933-1-ND	12.11	103.80	493-2933-2-ND	2,000	450.00/M	F951A686MBAAQ2
	100	±20%	B	10.0	14	0.4	493-2934-1-ND	17.50	150.00	493-2934-2-ND	2,000	638.00/M	F951A107MBAAQ2
16	1	±20%	P	0.5	8	8.0	493-2935-1-ND	2.49	21.30	493-2935-2-ND	3,000	96.00/M	F951C105MPAAQ2
	1.5	±20%	P	0.5	8	8.0	493-2936-1-ND	2.49	21.30	493-2936-2-ND	3,000	96.00/M	F951C155MPAAQ2
	2.2	±20%	P	0.5	8	6.0	493-2937-1-ND	2.91	24.90	493-2937-2-ND	3,000	112.00/M	F951C225MPAAQ2
	3.3	±20%	P	0.5	8	6.0	493-2938-1-ND	3.15	27.00	493-2938-2-ND	3,000	122.00/M	F951C335MPAAQ2
	4.7	±20%	P	0.8	10	4.0	493-2939-1-ND	3.78	32.40	493-2939-2-ND	3,000	146.00/M	F951C475MPAAQ2
	10	±20%	P	1.6	10	4.0	493-2940-1-ND	5.18	44.40	493-2940-2-ND	3,000	195.00/M	F951C106MPAAQ2
	10	±20%	Q	1.6	8	3.0	493-2941-1-ND	4.94	42.30	493-2941-2-ND	2,500	186.00/M	F951C106MQAAQ2
	10	±20%	S	1.6	8	2.0	493-2942-1-ND	5.71	48.90	493-2942-2-ND	2,500	215.00/M	F951C106MSAAQ2
	10	±20%	A	1.6	6	1.4	493-2943-1-ND	6.16	52.81	493-2943-2-ND	2,500	232.00/M	F951C106MAAAQ2
	15	±20%	A	2.4	8	1.4	493-2944-1-ND	6.51	55.80	493-2944-2-ND	2,500	246.00/M	F951C156MAAAQ2
	22	±20%	Q	3.5	12	3.0	493-2945-1-ND	5.29	45.30	493-2945-2-ND	2,500	199.00/M	F951C226MQAAQ2
	22	±20%	A	3.5	8	1.4	493-2946-1-ND	7.25	62.10	493-2946-2-ND	2,500	273.00/M	F951C226MAAAQ2
	22	±20%	T	3.5	8	1.4	493-2947-1-ND	7.00	60.00	493-2947-2-ND	2,500	264.00/M	F951C226MTAAQ2
	22	±20%	B	3.5	6	0.5	493-2948-1-ND	6.02	51.60	493-2948-2-ND	2,000	227.00/M	F951C226MBAAQ2
	33	±20%	B	5.3	8	0.5	493-2949-1-ND	6.97	59.70	493-2949-2-ND	2,000	263.00/M	F951C336MBAAQ2
	47	±20%	B	7.5	10	0.6	493-2950-1-ND	12.11	103.80	493-2950-2-ND	2,000	450.00/M	F951C476MBAAQ2
20	2.2	±20%	P	0.5	6	6.0	493-2951-1-ND	3.50	30.00	493-2951-2-ND	3,000	135.00/M	F951D225MPAAQ2
	2.2	±20%	S	0.5	6	5.0	493-2952-1-ND	2.84	24.30	493-2952-2-ND	2,500	109.00/M	F951D225MSAAQ2
	3.3	±20%	A	0.7	6	2.0	493-2953-1-ND	3.78	32.40	493-2953-2-ND	2,500	146.00/M	F951D335MAAAQ2
	4.7	±20%	S	0.9	8	4.0	493-2954-1-ND	5.71	48.90	493-2954-2-ND	2,500	215.00/M	F951D475MSAAQ2
	4.7	±20%	A	0.9	6	1.5	493-2955-1-ND	4.97	42.60	493-2955-2-ND	2,500	187.00/M	F951D475MAAAQ2
	6.8	±20%	A	1.4	8	1.5	493-2956-1-ND	5.08	43.50	493-2956-2-ND	2,500	191.00/M	F951D685MAAAQ2
	10	±20%	A	2.0	8	1.5	493-2957-1-ND	6.90	59.10	493-2957-2-ND	2,500	260.00/M	F951D106MAAAQ2
	10	±20%	B	2.0	6	0.8	493-2958-1-ND	5.81	49.80	493-2958-2-ND	2,000	219.00/M	F951D106MBAAQ2
	22	±20%	B	4.4	8	0.8	493-2959-1-ND	6.02	51.60	493-2959-2-ND	2,000	227.00/M	F951D226MBAAQ2
25	1	±20%	P	0.5	6	8.0	493-2960-1-ND	3.26	27.90	493-2960-2-ND	3,000	126.00/M	F951E105MPAAQ2
	1	±20%	S	0.5	6	8.0	493-2961-1-ND	2.62	22.49	493-2961-2-ND	2,500	101.00/M	F951E105MSAAQ2
	1.5	±20%	S	0.5	6	7.0	493-2962-1-ND	2.84	24.30	493-2962-2-ND	2,500	109.00/M	F951E155MSAAQ2
	2.2	±20%	S	0.6	6	7.0	493-2963-1-ND	4.45	38.10	493-2963-2-ND	2,500	171.00/M	F951E225MSAAQ2
	2.2	±20%	A	0.6	6	3.2	493-2964-1-ND	3.78	32.40	493-2964-2-ND	2,500	146.00/M	F951E225MAAAQ2
	3.3	±20%	A	0.8	6	2.8	493-2965-1-ND	4.94	42.30	493-2965-2-ND	2,500	186.00/M	F951E335MAAAQ2
	4.7	±20%	S	1.2	8	4.0	493-2966-1-ND	5.71	48.90	493-2966-2-ND	2,500	215.00/M	F951E475MSAAQ2
	4.7	±20%	A	1.2	8	2.0	493-2967-1-ND	5.08	43.50	493-2967-2-ND	2,500	191.00/M	F951E475MAAAQ2
	10	±20%	B	2.5	6	0.9	493-2968-1-ND	6.02	51.60	493-2968-2-ND	2,000	227.00/M	F951E106MBAAQ2
35	1	±20%	S	0.5	6	8.0	493-2969-1-ND	2.84	24.30	493-2969-2-ND	2,500	109.00/M	F951V105MSAAQ2
	1	±20%	A	0.5	4	4.4	493-2970-1-ND	3.15	27.00	493-2970-2-ND	2,500	122.00/M	F951V105MAAAQ2
	1.5	±20%	A	0.5	6	4.4	493-2971-1-ND	3.78	32.40	493-2971-2-ND	2,500	146.00/M	F951V155MAAAQ2
	2.2	±20%	A	0.8	6	4.4	493-2972-1-ND	4.94	42.30	493-2972-2-ND	2,500	186.00/M	F951V225MAAAQ2
	3.3	±20%	B	1.2	6	1.6	493-2973-1-ND	5.08	43.50	493-2973-2-ND	2,000	191.00/M	F951V335MBAAQ2
	4.7	±20%	B	1.7	6	1.6	493-2974-1-ND	8.05	69.00	493-2974-2-ND	2,000	304.00/M	F951V475MBAAQ2
F98 Series													
2.5	47	±20%	M	1.2	30	4	493-2870-1-ND	4.66	39.90	493-2870-2-ND	4,000	176.00/M	F980E476MMA
4	22	±20%	M	0.9	15	8	493-2871-1-ND	4.20	36.00	493-2871-2-ND	4,000	162.00/M	F980G226MMA
	33	±20%	M	1.3	30	4	493-2872-1-ND	4.66	39.90	493-2872-2-ND	4,000	176.00/M	F980G336MMA
	68	±20%	S	2.7	30	6	493-2873-1-ND	7.60	65.10	493-2873-2-ND	4,000	286.00/M	F980G686MSA
6.3	4.7	±20%	M	0.5	20	8	493-2874-1-ND	4.17	35.70	493-2874-2-ND	4,000	161.00/M	F980J475MMA
	10	±20%	M	0.6	8	8	493-2875-1-ND	4.17	35.70	493-2875-2-ND	4,000	161.00/M	F980J106MMA
	22	±20%	M	1.4	20	8	493-2876-1-ND	4.66	39.90	493-2876-2-ND	4,000	176.00/M	F980J226MMA
	47	±20%	S	3.0	25	6	493-2877-1-ND	7.60	65.10	493-2877-2-ND	4,000	286.00/M	F980J476MSA
10	2.2	±20%	M	0.5	20	16	493-2878-1-ND	4.17	35.70	493-2878-2-ND	4,000	161.00/M	F981A225MMA
	4.7	±20%	M	0.5	6	10	493-2879-1-ND	4.17	35.70	493-2879-2-ND	4,000	161.00/M	F981A475MMA
	10	±20%	M	1.0	20	8	493-2880-1-ND	4.66	39.90	493-2880-2-ND	4,000	176.00/M	F981A106MMA
	22	±20%	S	2.2	20	4	493-2881-1-ND	7.60	65.10	493-2881-2-ND	4,000	286.00/M	F981A226MSA
	33	±20%	S	3.3	30	6	493-2882-1-ND	7.60	65.10	493-2882-2-ND	4,000	286.00/M	F981A336MSA
16	1	±20%	M	0.5	6	20	493-2883-1-ND	4.17	35.70	493-2883-2-ND	4,000	161.00/M	F981C105MMA
	2.2	±20%	M	0.5	6	20	493-2884-1-ND	4.17	35.70	493-2884-2-ND	4,000	161.00/M	F981C225MMA
	4.7	±20%	M	0.8	12	12	493-2885-1-ND	4.17	35.70	493-2885-2-ND	4,000	161.00/M	F981C475MMA
	10	±20%	S	1.6	18	4	493-2886-1-ND	7.60	65.10	493-2886-2-ND	4,000	286.00/M	F981C106MSA

Panasonic

EF Series Resin Dipped Solid Tantalum Capacitors

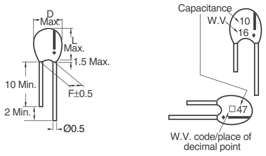

Specifications:

- **Operating Temperature Range:** -55°C ~ 105°C (6.3V, -55°C ~ 85°C)
- **Rated Working Volt. Range:** 6.3 ~ 16 WV DC
- **Rated Capacitance Range:** .1 ~ 330 µF
- **Capacitance Tolerance:** As Specified
- **Leakage Current:** I = 0.008 CV or 0.05 µA whichever is greater; I in µA, C in µF, V in volts
- Leads are not less than 0.394" in length

W.V. (D.C.)	Cap. (µF)	Cap. Tol. (%)	Dimensions - mm D	L	F	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
6.3	68	±20	5.5	9.5	2.5	P2018-ND	1.87	16.05	125.73	799.00	743.00/M	695.00/M	ECS-F0JE686
	100	±20	6.0	11.0	2.5	P2019-ND	2.85	24.42	191.29	1215.00	1131.00/M	1057.00/M	ECS-F0JE107
	150	±20	7.5	12.5	5.0	P2020-ND	6.46	55.38	433.81	2755.00	2564.00/M	2397.00/M	ECS-F0JE157
10	15	±10	4.5	7.0	2.5	P2027-ND	.81	6.96	54.52	346.00	322.00/M	301.00/M	ECS-F1AE156K
	33	±10	5.2	8.5	2.5	P2029-ND	1.30	11.13	87.19	554.00	515.00/M	482.00/M	ECS-F1AE336K
	68	±20	6.0	11.0	2.5	P2031-ND	2.85	24.42	191.29	1215.00	1131.00/M	1057.00/M	ECS-F1AE686
	100	±20	7.5	12.5	5.0	P2032-ND	6.46	55.38	433.81	2755.00	2564.00/M	2397.00/M	ECS-F1AE107
16	68	±20	7.5	12.5	5.0	P2043-ND	6.46	55.38	433.81	2755.00	2564.00/M	2397.00/M	ECS-F1CE686

TE Series

Tantalum Electrolytic Chip Capacitors

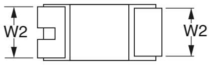

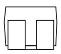

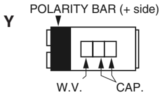

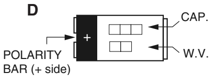

Features:

- Wide capacitance range
- High performance in temperature and frequency characteristics
- Excellent solderability
- Excellent terminal construction against bending of P.W.B.
- Low inductance structure.

Specifications:

- **Operating Temperature Range:** -55°C ~ 125°C
- **Capacitance Tolerance:** ±20% at 120Hz, 20°C
- **DC Leakage Current:** I = 0.01CV or 0.5µA maximum whichever is greater. DC leakage current shall be measured after 2 minutes application of rated working voltage at 20°C
- **tan δ:** ≤3.3µF – 0.04 maximum; 4.7 – 68µF – 0.06 maximum; 100µF – 0.08 maximum
- **Solder Heat Resistance:** The capacitor shall withstand dipping into solder bath for 5 ±1 seconds at 260 ±5°C
- **Moisture Resistance:** Capacitor shall be tested for 500 hours at 40°C and 90-95% R.H. without load.

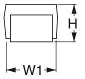

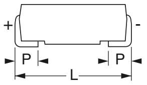

Dimensions in mm

EIA Size	Size Code	L ± 0.2	W_1 ± 0.2	W_2 ± 0.1	H ± 0.2	P ± 0.3
A	Y	3.2	1.6	1.2	1.6	0.8
D	D	7.3	4.3	2.4	2.8	1.3

W.V. (D.C.)	Cap. (µF)	EIA Size	Size Code	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
20	0.68	A	Y	PCS4684CT-ND	.22	.19	.15	PCS4684TR-ND	2,000	85.00/M	ECS-T1DY684R
	15	D	D	PCS4156CT-ND	.84	.74	.58	—	—	—	ECS-T1DD156R
35	.33	A	Y	PCS6334CT-ND	.25	.22	.17	PCS6334TR-ND	2,000	95.00/M	ECS-T1VY334R

TES Series Tantalum Electrolytic Chip Capacitors

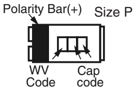

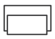

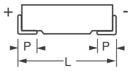

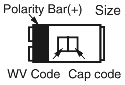

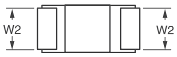

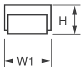

Characteristics at High and Low Temperature:

Size Code	L ± 0.2	W1 ± 0.2	H max.	P	W2 ± 0.1
Z	2.0	1.25	1.2	0.5 ± 0.2	0.9
P	3.2	1.6	1.2	0.8 ± 0.3	1.2

Features:

- Ultra miniature sizes
- Low profile 1.2mm maximum height

Specifications:

- **Operating Temperature Range:** -55°C ~ 125°C
- **Rated Working Voltage Range:** 2.5 ~ 20VDC
- **Nominal Capacitance Range:** 0.1 ~ 4.7 µF
- **Capacitance Tolerance:** ±20% (120Hz, 20°)
- **Leakage Current:** I ≤ 0.01CV or 0.5 (µA), whichever is greater measured after 2 minutes application of rated working voltage at 20°C
- **tan δ:** 0.04 maximum for ≤ 3.3µF, 0.08 maximum for 2.5W.V., 0.10 maximum for Z size

W.V. (D.C.)	Cap. (µF)	Size Code	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape and Reel Pricing 3,000	6,000	Panasonic Part No.
4	2.2	P	PCS0255BCT-ND	.74	.65	.51	—	—	—	ECS-T0GP225R
	3.3	P	PCS0335BCT-ND	.74	.65	.51	—	—	—	ECS-T0GP335R
10	1.0	Z	PCS2105CCT-ND	.33	.29	.23	PCS2105CTR-ND	130.00/M	123.00/M	ECS-T1AZ105R
	4.7	Z	P11340CT-ND	.75	.66	.52	P11340TR-ND	296.00/M	279.00/M	ECS-T1AZ475R
16	0.68	P	PCS3684BCT-ND	.74	.65	.51	—	—	—	ECS-T1CP684R
	0.68	Z	PCS3684CCT-ND	.35	.30	.24	—	—	—	ECS-T1CZ684R
20	0.15	P	PCS4154BCT-ND	.74	.65	.51	PCS4154BTR-ND	292.00/M	275.00/M	ECS-T1DP154R
	0.68	P	PCS4684BCT-ND	.74	.65	.51	—	—	—	ECS-T1DP684R

TEH Series Resin Molded Chip Tantalum Electrolytic Capacitors

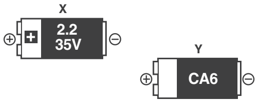

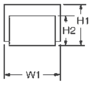

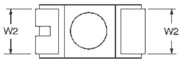

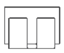

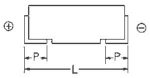

Dimensions in mm

EIA Size	Size Code	L ±0.2	W_1 ±0.2	W_2 ±0.1	H_1 ±0.2	H_2 Typ.	P ±0.3
A	Y	3.2	1.6	1.2	1.6	1.0	0.8
B	X	3.5	2.8	2.2	1.9	1.2	0.8

Specifications:

- **Operating Temperature Range:** -55 ~ 125°C
- **Rated Working Voltage Range:** 10 ~ 35V
- **Rated Capacitance Range:** .1µF ~ 68µF
- **Capacitance Tolerance:** ±20% at 120Hz, 20°C
- **DC Leakage Current:** I = 0.01CV or 0.5µA maximum, whichever is greater. DC leakage current shall be measured after 2 minutes application of rated working voltage at 20°C.
- **tan δ:** less than 3.3µF — 0.04 maximum; 4.7 ~ 68µF — 0.06 maximum
- **Stability at Low and High Temperature**

W.V. (D.C.)	Cap. (µF)	EIA Size	Size Code	Digi-Key Part No.	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	4,000	6,000	Panasonic Part No.
10	4.7	B	X	PCT2475CT-ND	2.91	25.46	PCT2475TR-ND	115.00/M	110.00/M	109.00/M	ECS-H1AX475R
20	0.68	A	Y	PCT4684CT-ND	2.41	21.05	—	—	—	—	ECS-H1DY684R
25	1.5	B	X	PCT5155CT-ND	3.11	27.13	—	—	—	—	ECS-H1EX155R
35	.47	B	X	PCT6474CT-ND	3.11	27.13	—	—	—	—	ECS-H1VX474R

AVX TAP Series

Dipped Radial Tantalum Capacitors

TAP is a professional grade device manufactured with a flame retardant coating and featuring low leakage current and impedance, very small physical sizes and exceptional temperature stability.

- **Capacitance Tolerance:** 10% • **Temperature Range:** -55°C ~ 125°C

2.5mm LS Style

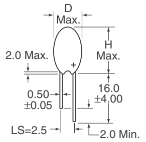

5.0mm LS Style

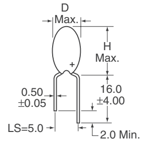

Cap. (µF)	Dimensions (mm)			DF % Max.	DCL (µA) Max.	ESR Max. (Ω)@ 100kHz	Digi-Key Part No.	Price Each			AVX Part No.
	D	H	LS					1	10	100	
6.3 Volt @ 85°C (4 Volt @ 125°C) — RoHS Compliant											
3.3	4.5	7.0	2.5	6	0.5	13.0	478-1885-ND	.46	.40	.32	TAP335K006SCS
4.7	4.5	7.0	2.5	6	0.5	10.0	478-1902-ND	.46	.40	.32	TAP475K006SCS
6.8	4.5	7.0	2.5	6	0.5	8.0	478-1917-ND	.46	.40	.32	TAP685K006SCS
10	4.5	7.5	2.5	8	0.5	6.0	478-1837-ND	.58	.50	.39	TAP106K006SCS
15	5.0	8.5	2.5	8	0.8	5.0	478-1855-ND	.65	.56	.44	TAP156K006SCS
22	5.0	9.0	2.5	8	1.1	3.7	478-1873-ND	.65	.56	.44	TAP226K006SCS
33	5.5	9.0	2.5	8	1.7	3.0	478-1892-ND	.82	.71	.56	TAP336K006SCS
47	6.0	10.0	2.5	8	2.4	2.0	478-1909-ND	.91	.78	.62	TAP476K006SCS
47	6.0	11.5	5.0	8	2.4	2.0	478-4180-ND	.91	.78	.62	TAP476K006CCS
68	6.5	10.0	2.5	8	3.4	1.8	478-1924-ND	1.09	.93	.73	TAP686K006SCS
100	7.0	10.5	2.5	10	5.0	1.6	478-1844-ND	2.59	2.22	1.74	TAP107K006SCS
150	8.5	14.0	5.0	10	7.6	0.9	478-1862-ND	3.26	2.79	2.19	TAP157K006CCS
220	9.0	14.5	5.0	10	11.0	0.9	478-1880-ND	6.51	5.58	4.38	TAP227K006CCS
330	10.0	17.0	5.0	10	16.6	0.7	478-1898-ND	8.12	6.96	5.46	TAP337K006CCS
10 Volt @ 85°C (6.3 Volt @ 125°C)											
2.2	4.5	7.0	2.5	6	0.5	13.0	478-1867-ND◆	.46	.40	.32	TAP225K010SCS
3.3	4.5	7.0	2.5	6	0.5	10.0	478-1886-ND◆	.46	.40	.32	TAP335K010SCS
4.7	4.5	7.0	2.5	6	0.5	8.0	478-1903-ND◆	.46	.40	.32	TAP475K010SCS
6.8	4.5	7.5	2.5	6	0.5	6.0	478-1918-ND◆	.58	.50	.39	TAP685K010SCS
10	5.0	8.5	2.5	8	0.8	5.0	478-1838-ND◆	.65	.56	.44	TAP106K010SCS
15	5.0	9.0	2.5	8	1.2	3.7	478-1856-ND◆	.65	.56	.44	TAP156K010SCS
22	5.5	9.0	2.5	8	1.7	2.7	478-1874-ND◆	.81	.69	.55	TAP226K010SCS
33	6.0	10.0	2.5	8	2.6	2.1	478-1893-ND◆	.95	.81	.64	TAP336K010SCS
33	6.0	11.5	5.0	8	2.6	2.1	478-4177-ND◆†	.98	.84	.66	TAP336M010CCS
47	6.5	10.0	2.5	8	3.7	1.7	478-1910-ND◆	1.68	1.44	1.13	TAP476K010SCS
68	7.0	10.5	2.5	8	5.4	1.3	478-1925-ND	2.59	2.22	1.74	TAP686K010SCS
100	8.5	12.5	2.5	10	8.0	1.0	478-1845-ND◆	3.26	2.79	2.19	TAP107K010SCS
150	9.0	16.0	5.0	10	12.0	0.8	478-1863-ND◆	6.51	5.58	4.38	TAP157K010CCS
220	10.0	17.0	5.0	10	17.6	0.6	478-1881-ND◆	8.12	6.96	5.46	TAP227K010CCS
330	10.0	18.5	5.0	10	20.0	0.5	478-1899-ND◆	8.12	6.96	5.46	TAP337K010CCS
16 Volt @ 85°C (10 Volt @ 125°C) — RoHS Compliant											
1.5	4.5	7.0	2.5	4	0.5	10.0	478-1850-ND	.46	.40	.32	TAP155K016SCS
2.2	4.5	7.0	2.5	6	0.5	8.0	478-1868-ND	.44	.38	.30	TAP225K016SCS
3.3	4.5	7.0	2.5	6	0.5	6.0	478-1887-ND	.44	.38	.30	TAP335K016SCS
4.7	4.5	7.5	2.5	6	0.6	5.0	478-1904-ND	.55	.47	.37	TAP475K016SCS
6.8	5.0	8.5	2.5	6	0.8	4.0	478-1919-ND	.65	.56	.44	TAP685K016SCS
10	5.0	9.0	2.5	8	1.2	3.2	478-1839-ND	.67	.57	.45	TAP106K016SCS
10	5.0	10.5	5.0	8	1.2	3.2	478-4169-ND	.70	.60	.47	TAP106K016CCS
15	5.5	9.0	2.5	8	1.9	2.5	478-1857-ND	.88	.75	.59	TAP156K016SCS
15	5.5	10.5	5.0	8	1.9	2.5	478-4173-ND	.93	.80	.63	TAP156K016CCS
22	6.0	10.0	2.5	8	2.8	2.0	478-1875-ND	.88	.75	.59	TAP226K016SCS
22	6.0	11.5	5.0	8	2.8	2.0	478-4174-ND	.93	.80	.63	TAP226K016CCS
33	6.0	10.0	2.5	8	4.2	1.6	478-1894-ND	1.75	1.50	1.18	TAP336K016SCS
47	8.0	11.5	2.5	8	6.0	1.3	478-1911-ND	2.75	2.36	1.85	TAP476K016SCS
68	9.0	12.5	2.5	8	8.7	1.0	478-1926-ND	3.33	2.85	2.24	TAP686K016SCS
100	9.0	16.0	5.0	10	12.8	0.8	478-1846-ND	7.00	6.00	4.70	TAP107K016CCS
150	9.0	16.0	5.0	10	19.2	0.6	478-1864-ND	8.05	6.90	5.41	TAP157K016CCS
220	10.0	18.5	5.0	10	20.0	0.5	478-1882-ND	9.91	8.49	6.66	TAP227K016CCS
20 Volt @ 85°C (13 Volt @ 125°C)											
1.0	4.5	7.0	2.5	4	0.5	10.0	478-1833-ND◆	.46	.40	.32	TAP105K020SCS
1.5	4.5	7.0	2.5	4	0.5	9.0	478-1851-ND	.46	.40	.32	TAP155K020SCS
2.2	4.5	7.0	2.5	6	0.5	7.0	478-1869-ND◆	.46	.40	.32	TAP225K020SCS
3.3	4.5	7.5	2.5	6	0.5	5.5	478-1888-ND◆	.58	.50	.39	TAP335K020SCS
4.7	5.0	8.5	2.5	6	0.7	4.5	478-1905-ND◆	.65	.56	.44	TAP475K020SCS
6.8	5.0	9.0	2.5	6	1.0	3.6	478-1920-ND	.65	.56	.44	TAP685K020SCS
10	5.5	9.0	2.5	8	1.6	2.9	478-1840-ND◆	.88	.75	.59	TAP106K020SCS
15	6.0	10.0	2.5	8	2.4	2.3	478-1858-ND◆	.95	.81	.64	TAP156K020SCS
22	7.0	10.5	2.5	8	3.5	1.8	478-1876-ND◆	1.75	1.50	1.18	TAP226K020SCS
33	8.0	11.5	2.5	8	5.2	1.4	478-1895-ND◆	2.52	2.16	1.70	TAP336K020SCS
47	8.5	12.5	2.5	8	7.5	1.2	478-1912-ND◆	3.12	2.67	2.10	TAP476K020SCS
68	9.0	16.0	5.0	8	10.8	0.9	478-1927-ND◆	7.07	6.06	4.75	TAP686K020CCS
100	9.0	16.0	5.0	10	16.0	0.6	478-1847-ND◆	8.09	6.93	5.43	TAP107K020CCS
25 Volt @ 85°C (16 Volt @ 125°C) — RoHS Compliant											
1.0	4.5	7.0	2.5	4	0.5	10.0	478-1834-ND	.46	.40	.32	TAP105K025SCS
1.0	4.5	8.5	5.0	4	0.5	10.0	478-4167-ND	.46	.40	.32	TAP105K025CCS
1.5	4.5	7.0	2.5	4	0.5	8.0	478-1852-ND	.46	.40	.32	TAP155K025SCS
2.2	4.5	7.0	2.5	6	0.5	6.0	478-1870-ND	.46	.40	.32	TAP225K025SCS
3.3	4.5	7.5	2.5	6	0.6	5.0	478-1889-ND	.58	.50	.39	TAP335K025SCS
4.7	5.0	8.5	2.5	6	0.9	4.0	478-1906-ND	.65	.56	.44	TAP475K025SCS
6.8	5.0	9.0	2.5	6	1.3	3.1	478-1921-ND	.65	.56	.44	TAP685K025SCS
10	5.5	9.0	2.5	8	2.0	2.5	478-1841-ND	.74	.63	.50	TAP106K025SCS
10	5.5	10.5	5.0	8	2.0	2.5	478-4170-ND	.93	.80	.63	TAP106K025CCS
15	6.0	10.0	2.5	8	3.0	2.0	478-1859-ND	1.98	1.70	1.33	TAP156K025SCS
22	7.0	10.5	2.5	8	4.4	1.5	478-1877-ND	2.45	2.10	1.65	TAP226K025SCS
22	7.0	12.0	5.0	8	4.4	1.5	478-4175-ND	2.59	2.22	1.74	TAP226K025CCS
33	8.0	11.5	2.5	8	6.6	1.2	478-1896-ND	3.27	2.81	2.20	TAP336K025SCS
33	8.0	13.0	5.0	8	6.6	1.2	478-4176-ND	3.31	2.84	2.23	TAP336K025CCS
47	9.0	13.0	2.5	8	9.4	1.0	478-1913-ND	5.01	4.29	3.37	TAP476K025SCS
47	9.0	14.5	5.0	8	9.4	1.0	478-4181-ND	5.01	4.29	3.37	TAP476K025CCS
68	9.0	16.0	5.0	8	13.6	0.8	478-1928-ND	8.12	6.96	5.46	TAP686K025CCS
35 Volt @ 85°C (23 Volt @ 125°C) — RoHS Compliant											
0.1	4.5	7.0	2.5	4	0.5	26.0	478-1831-ND	.46	.40	.32	TAP104K035SCS
0.15	4.5	7.0	2.5	4	0.5	21.0	478-1848-ND	.46	.40	.32	TAP154K035SCS
0.22	4.5	7.0	2.5	4	0.5	17.0	478-1865-ND	.46	.40	.32	TAP224K035SCS
0.33	4.5	7.0	2.5	4	0.5	15.0	478-1883-ND	.46	.40	.32	TAP334K035SCS
0.47	4.5	7.0	2.5	4	0.5	13.0	478-1900-ND	.46	.40	.32	TAP474K035SCS
0.47	4.5	8.5	5.0	4	0.5	13.0	478-4178-ND	.46	.40	.32	TAP474K035CCS
0.68	4.5	7.0	2.5	4	0.5	10.0	478-1915-ND	.46	.40	.32	TAP684K035SCS
1.0	4.5	7.0	2.5	4	0.5	8.0	478-1835-ND	.46	.39	.31	TAP105K035SCS
1.0	4.5	8.5	5.0	4	0.5	8.0	478-4168-ND	.46	.40	.32	TAP105K035CCS
1.5	4.5	7.0	2.5	4	0.5	6.0	478-1853-ND	.46	.40	.32	TAP155K035SCS
2.2	4.5	7.5	2.5	6	0.6	5.0	478-1871-ND	.53	.45	.36	TAP225K035SCS
3.3	5.0	8.5	2.5	6	0.9	4.0	478-1890-ND	.65	.56	.44	TAP335K035SCS
4.7	5.5	9.0	2.5	6	1.3	3.0	478-1907-ND	.77	.66	.52	TAP475K035SCS
4.7	5.5	10.5	5.0	6	1.3	3.0	478-4179-ND	.77	.66	.52	TAP475K035CCS
6.8	6.0	10.0	2.5	6	1.9	2.5	478-1922-ND	.89	.77	.60	TAP685K035SCS
6.8	6.0	11.5	5.0	6	1.9	2.5	478-4182-ND	.89	.77	.60	TAP685K035CCS
10	6.0	10.0	2.5	8	2.8	2.0	478-1842-ND	1.49	1.28	1.00	TAP106K035SCS
10	6.0	11.5	5.0	8	2.8	2.0	478-4171-ND	1.49	1.28	1.00	TAP106K035CCS
15	7.0	10.5	2.5	8	4.2	1.6	478-1860-ND	3.12	2.67	2.10	TAP156K035SCS
22	8.5	12.5	2.5	8	6.1	1.3	478-1878-ND	2.96	2.54	1.99	TAP226K035SCS
33	9.0	14.5	5.0	8	9.2	1.0	478-1897-ND	5.43	4.65	3.65	TAP336K035CCS
47	9.0	16.0	5.0	8	10.0	0.8	478-1914-ND	8.12	6.96	5.46	TAP476K035CCS
50 Volt @ 85°C (33 Volt @ 125°C) — RoHS Compliant											
0.1	4.5	7.0	2.5	4	0.5	26.0	478-1832-ND	.52	.45	.35	TAP104K050SCS
0.15	4.5	7.0	2.5	4	0.5	21.0	478-1849-ND	.48	.42	.33	TAP154K050SCS
0.22	4.5	7.0	2.5	4	0.5	17.0	478-1866-ND	.52	.45	.35	TAP224K050SCS
0.33	4.5	7.0	2.5	4	0.5	15.0	478-1884-ND	.52	.45	.35	TAP334K050SCS
0.47	4.5	7.0	2.5	4	0.5	13.0	478-1901-ND	.52	.45	.35	TAP474K050SCS
0.68	4.5	7.5	2.5	4	0.5	10.0	478-1916-ND	.58	.50	.39	TAP684K050SCS
1.0	5.0	8.5	2.5	4	0.5	8.0	478-1836-ND	.58	.50	.39	TAP105K050SCS
1.5	5.0	9.0	2.5	4	0.6	6.0	478-1854-ND	.88	.75	.59	TAP155K050SCS
2.2	5.5	9.0	2.5	6	0.8	3.5	478-1872-ND	.93	.80	.63	TAP225K050SCS
3.3	6.0	10.0	2.5	6	1.3	3.0	478-1891-ND	1.02	.87	.69	TAP335K050SCS
4.7	6.5	10.0	2.5	6	1.8	2.5	478-1908-ND	1.28	1.10	.86	TAP475K050SCS
6.8	7.0	10.5	2.5	6	2.7	2.0	478-1923-ND	3.01	2.58	2.03	TAP685K050SCS
10	8.0	11.5	2.5	8	4.0	1.6	478-1843-ND	5.25	4.50	3.53	TAP106K050SCS
10	8.0	13.0	5.0	8	4.0	1.6	478-4172-ND	5.25	4.50	3.53	TAP106K050CCS
15	8.5	14.0	5.0	8	6.0	1.2	478-1861-ND	5.78	4.95	3.88	TAP156K050CCS
22	9.0	14.0	5.0	8	8.8	1.0	478-1879-ND	9.45	8.10	6.35	TAP226K050CCS

◆ ***RoHS Compliant*** † 20% Capacitance Tolerance

AVX TAJ Series

Standard Surface Mount Tantalum Capacitors

The TAJ standard series encompasses the sizes recognized by major OEMs throughout the world. • **Temperature Range:** -55°C ~ 85°C rated voltage and up to 125°C with voltage derating in applications utilizing recommended series resistance

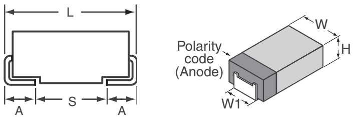

Digi-Reel®

RoHS COMPLIANT

Case Size	EIA Code	Dimensions - mm L	W	H	W_1	A	S (Min.)
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
P	2012-15	2.05	1.35	1.50	1.00	0.50	0.85
R	2012-12	2.05	1.30	1.20	1.00	0.50	0.85

Case Size	EIA Code	Dimensions - mm L	W	H	W_1	A	S (Min.)
S	3216-12	3.20	1.60	1.20	1.20	0.80	1.10
T	3528-12	3.50	2.80	1.20	2.20	0.80	1.40
V	7361-38	7.30	6.10	3.45	3.10	1.40	4.40
W	6032-15	6.00	3.20	1.50	2.20	1.30	2.90
Y	7343-20	7.30	4.30	2.00	2.40	1.30	4.40
X	7343-15	7.30	4.30	1.50	2.40	1.30	4.40

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ@100kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
2.5	47	10	A	6	0.9	3000	478-3268-1-ND†	.83	.72	.63	478-3268-2-ND	2,000	281.00/M	TAJA476K002R
	220	10	B	16	4.4	1600	478-3269-1-ND†	1.00	.87	.76	478-3269-2-ND	2,000	340.00/M	TAJB227K002R
	680	10	C	18	17.0	200	478-4771-1-ND ***NEW!***	3.11	2.71	2.37	478-4771-2-ND ***NEW!***	500	566.00	TAJC687K002RNJ
4	2.2	20	R	6	0.5	25000	478-3053-1-ND	1.08	.94	.83	478-3053-2-ND	2,500	367.00/M	TAJR225M004R
	22	10	P	8	0.9	5000	478-3270-1-ND ***NEW!***	1.20	1.05	.92	478-3270-2-ND ***NEW!***	2,500	408.00/M	TAJP226K004R
	22	20	R	8	0.9	3800	478-3055-1-ND	1.08	.94	.83	478-3055-2-ND	2,500	367.00/M	TAJR226M004R
	33	10	A	6	1.3	3000	478-1665-1-ND†	.50	.44	.38	478-1665-2-ND	2,000	170.00/M	TAJA336K004R
	47	10	A	8	1.9	2600	478-1669-1-ND	.50	.44	.38	478-1669-2-ND	2,000	170.00/M	TAJA476K004R
	47	20	A	8	1.9	2600	478-3870-1-ND	.50	.44	.38	478-3870-2-ND	2,000	170.00/M	TAJA476M004R
	68	10	B	6	2.7	1800	478-2344-1-ND	.65	.57	.50	478-2344-2-ND	2,000	221.00/M	TAJB686K004R
	100	10	B	8	4	900	478-1676-1-ND	1.15	1.01	.88	478-1676-2-ND	2,000	391.00/M	TAJB107K004R
	150	10	B	8	6	1500	478-2345-1-ND	1.00	.87	.76	478-2345-2-ND	2,000	340.00/M	TAJB157K004R
	150	20	B	8	6	1500	478-3878-1-ND	1.00	.87	.76	478-3878-2-ND	2,000	340.00/M	TAJB157M004R
	220	10	C	8	8.8	1200	478-2346-1-ND	2.35	2.05	1.79	478-2346-2-ND	500	399.50	TAJC227K004R
	220	10	D	8	8.8	900	478-3064-1-ND	1.89	1.65	1.44	478-3064-2-ND	500	344.00	TAJD227K004R
	330	10	C	8	13.2	900	478-2347-1-ND	2.43	2.11	1.85	478-2347-2-ND	500	412.50	TAJC337K004R
	330	10	D	8	13.2	900	478-3065-1-ND	2.16	1.88	1.65	478-3065-2-ND	500	393.00	TAJD337K004R
	470	10	C	14	18.8	300	478-4772-1-ND ***NEW!***	2.88	2.51	2.19	478-4772-2-ND ***NEW!***	500	523.50	TAJC477K004RNJ
	470	10	D	12	18.8	900	478-3066-1-ND	3.35	2.92	2.55	478-3066-2-ND	500	610.00	TAJD477K004R
	470	10	E	10	18.8	500	478-3271-1-ND†	7.00	6.09	5.32	478-3271-2-ND	400	1019.20	TAJE477K004R
	680	10	D	14	27.2	500	478-3067-1-ND	3.65	3.18	2.78	478-3067-2-ND	500	663.50	TAJD687K004R
	1000	10	E	14	40	400	478-2348-1-ND†	10.75	9.36	8.17	478-2348-2-ND	400	1462.00	TAJE108K004R
6.3	1.5	20	R	6	0.5	2000	478-3052-1-ND	1.08	.94	.83	478-3052-2-ND	2,500	367.00/M	TAJR155M006R
	2.2	20	A	6	0.5	9000	478-3862-1-ND	.45	.40	.35	478-3862-2-ND	2,000	153.00/M	TAJA225M006R
	2.2	20	S	6	0.5	18000	478-3966-1-ND	1.18	1.03	.90	478-3966-2-ND	2,500	428.00/M	TAJS225M006R
	3.3	20	A	6	0.5	6000	478-3029-1-ND	.37	.33	.29	478-3029-2-ND	2,000	125.00/M	TAJA335M006R
	4.7	10	A	6	0.5	6000	478-3867-1-ND	.38	.33	.29	478-3867-2-ND	2,000	128.00/M	TAJA475K006R
	4.7	20	A	6	0.5	6000	478-3031-1-ND	.38	.33	.29	478-3031-2-ND	2,000	128.00/M	TAJA475M006R
	4.7	10	R	6	0.5	700	478-3272-1-ND	1.10	.96	.84	478-3272-2-ND	2,500	374.00/M	TAJR475K006R
	6.8	20	A	6	0.5	5000	478-3871-1-ND	.45	.40	.35	478-3871-2-ND	2,000	153.00/M	TAJA685M006R
	6.8	20	B	6	0.7	3000	478-3045-1-ND	.50	.44	.39	478-3045-2-ND	2,000	171.00/M	TAJB685M006R
	10	10	A	6	0.6	4000	478-1653-1-ND	.40	.35	.31	478-1653-2-ND	2,000	136.00/M	TAJA106K006R
	10	20	A	6	0.6	4000	478-1656-1-ND	.38	.33	.29	478-1656-2-ND	2,000	128.00/M	TAJA106M006R
	10	10	B	6	0.6	3000	478-3873-1-ND	.16	.14	.12	478-3873-2-ND	2,000	53.00/M	TAJB106K006R
	10	20	B	6	0.6	3000	478-3874-1-ND	.15	.13	.12	478-3874-2-ND	2,000	50.00/M	TAJB106M006R
	10	20	R	8	0.6	6000	478-3051-1-ND	1.08	.94	.83	478-3051-2-ND	2,500	367.00/M	TAJR106M006R
	10	10	R	8	0.6	6000	478-3273-1-ND	1.10	.96	.84	478-3273-2-ND	2,500	374.00/M	TAJR106K006R
	10	10	S	6	0.6	6000	478-3965-1-ND	1.20	1.05	.92	478-3965-2-ND	2,500	437.00/M	TAJS106K006R
	15	10	P	8	0.9	3500	478-3274-1-ND	1.20	1.05	.92	478-3274-2-ND	2,500	408.00/M	TAJP156K006R
	15	10	S	8	0.9	4000	478-3275-1-ND	1.20	1.05	.92	478-3275-2-ND	2,500	408.00/M	TAJS156K006R
	15	20	A	6	0.9	3500	478-3026-1-ND	.45	.40	.35	478-3026-2-ND	2,000	153.00/M	TAJA156M006R
	22	10	A	6	1.4	3000	478-3865-1-ND	.15	.14	.12	478-3865-2-ND	2,000	52.00/M	TAJA226K006R
	22	20	A	6	1.4	3000	478-3028-1-ND	.51	.45	.39	478-3028-2-ND	2,000	173.00/M	TAJA226M006R
	22	10	B	6	1.4	2500	478-1681-1-ND	.53	.47	.41	478-1681-2-ND	2,000	181.00/M	TAJB226K006R
	22	10	C	6	1.4	2000	478-3898-1-ND	.31	.28	.24	478-3898-2-ND	500	57.00	TAJC226K006R
	22	20	T	8	1.4	2500	478-3969-1-ND	1.37	1.20	1.05	478-3969-2-ND	2,500	499.00/M	TAJT226M006R
	33	10	A	8	2.1	2500	478-1666-1-ND	.63	.55	.48	478-1666-2-ND	2,000	213.00/M	TAJA336K006R
	33	20	A	8	2.1	2500	478-1667-1-ND	.63	.55	.48	478-1667-2-ND	2,000	213.00/M	TAJA336M006R
	47	10	T	10	2.8	1600	478-3276-1-ND	1.40	1.22	1.07	478-3276-2-ND	2,500	476.00/M	TAJT476K006R
	47	10	B	6	3	2000	478-1692-1-ND	.65	.57	.50	478-1692-2-ND	2,000	221.00/M	TAJB476K006R
	47	20	B	6	3	2000	478-3890-1-ND	.65	.57	.50	478-3890-2-ND	2,000	221.00/M	TAJB476M006R
	68	10	B	8	4	900	478-1696-1-ND	.75	.66	.57	478-1696-2-ND	2,000	255.00/M	TAJB686K006R
	100	10	B	10	6.3	1700	478-1677-1-ND†	1.25	1.09	.95	478-1677-2-ND	2,000	425.00/M	TAJB107K006R
	100	20	B	10	6.3	1700	478-3877-1-ND	1.25	1.09	.95	478-3877-2-ND	2,000	425.00/M	TAJB107M006R
	100	10	C	6	6.3	900	478-1703-1-ND	1.20	1.05	.92	478-1703-2-ND	500	218.50	TAJC107K006R
	100	10	D	6	6	600	478-3917-1-ND	1.95	1.70	1.49	478-3917-2-ND	500	355.00	TAJD107K006R
	150	20	B	10	9.5	1200	478-4692-1-ND ***NEW!***	1.63	1.42	1.24	478-4692-2-ND ***NEW!***	2,000	553.00/M	TAJB157M006R
	150	10	C	6	9.5	1300	478-1709-1-ND	1.95	1.70	1.49	478-1709-2-ND	500	355.00	TAJC157K006R
	220	10	C	8	13.9	1200	478-1713-1-ND†	2.10	1.83	1.60	478-1713-2-ND	500	382.00	TAJC227K006R
	220	20	D	8	13.9	900	478-3928-1-ND	2.60	2.26	1.98	478-3928-2-ND	500	472.50	TAJD227M006R
	330	10	C	12	19.8	500	478-4773-1-ND ***NEW!***	2.79	2.43	2.13	478-4773-2-ND ***NEW!***	500	508.00	TAJC337K006RNJ
	330	10	E	8	20.8	400	478-3955-1-ND	1.60	1.40	1.22	478-3955-2-ND	400	232.80	TAJE337K006R
	330	20	E	8	20.8	400	478-3956-1-ND	5.10	4.44	3.88	478-3956-2-ND	400	742.00	TAJE337M006R
	330	10	Y	8	20.8	900	478-3277-1-ND	3.00	2.61	2.28	478-3277-2-ND	1,000	1092.00	TAJY337K006R
	470	10	D	12	28	400	478-1741-1-ND†	3.15	2.75	2.40	478-1741-2-ND	500	573.50	TAJD477K006R
	470	20	D	12	28	400	478-3940-1-ND	3.15	2.75	2.40	478-3940-2-ND	500	573.50	TAJD477M006R
	470	10	Y	20	28.2	200	478-4706-1-ND ***NEW!***	3.00	2.61	2.28	478-4706-2-ND ***NEW!***	1,000	1092.00	TAJY477K006R
	680	10	E	10	42.8	500	478-2349-1-ND	8.70	7.57	6.62	478-2349-2-ND	400	1183.20	TAJE687K006R
10	1.0	10	R	4	0.5	25000	478-3278-1-ND	1.10	.96	.84	478-3278-2-ND	2,500	374.00/M	TAJR105K010R
	1.0	20	R	4	0.5	25000	478-3049-1-ND	1.08	.94	.83	478-3049-2-ND	2,500	367.00/M	TAJR105M010R
	2.2	10	A	6	0.5	7000	478-3861-1-ND	.48	.42	.37	478-3861-2-ND	2,000	162.00/M	TAJA225K010R
	2.2	20	A	6	0.5	7000	478-3027-1-ND	.48	.42	.37	478-3027-2-ND	2,000	162.00/M	TAJA225M010R
	2.2	20	R	6	0.5	15000	478-3054-1-ND	1.08	.94	.83	478-3054-2-ND	2,500	367.00/M	TAJR225M010R
	3.3	10	S	6	0.5	800	478-3279-1-ND	1.20	1.05	.92	478-3279-2-ND	2,500	408.00/M	TAJS335K010R
	3.3	10	A	6	0.5	5500	478-3866-1-ND	.38	.34	.29	478-3866-2-ND	2,000	130.00/M	TAJA335K010R
	3.3	20	A	6	0.5	5500	478-3030-1-ND	.38	.34	.29	478-3030-2-ND	2,000	130.00/M	TAJA335M010R
	3.3	20	R	6	0.5	8000	478-3056-1-ND	1.08	.94	.83	478-3056-2-ND	2,500	367.00/M	TAJR335M010R
	4.7	10	A	6	0.5	5000	478-2350-1-ND	.43	.37	.33	478-2350-2-ND	2,000	145.00/M	TAJA475K010R
	4.7	20	A	6	0.5	5000	478-3869-1-ND	.38	.34	.29	478-3869-2-ND	2,000	130.00/M	TAJA475M010R

(Continued)

TAJ Series Standard Surface Mount Tantalum Capacitors *(Cont.)*

Rated Voltage (V)	Capaci- tance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ@100kHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
10	4.7	10	R	6	0.5	9000	478-3280-1-ND	1.10	.96	.84	478-3280-2-ND	2,500	374.00/M	TAJR475K010R
	4.7	10	B	6	0.5	4000	478-3886-1-ND	.50	.44	.39	478-3886-2-ND	2,000	171.00/M	TAJB475K010R
	4.7	20	B	6	0.5	4000	478-3042-1-ND	.50	.44	.39	478-3042-2-ND	2,000	171.00/M	TAJB475M010R
	4.7	20	R	6	0.5	9000	478-3057-1-ND	1.08	.94	.83	478-3057-2-ND	2,500	367.00/M	TAJR475M010R
	6.8	10	A	6	0.7	4000	478-2351-1-ND	.45	.40	.35	478-2351-2-ND	2,000	153.00/M	TAJA685K010R
	6.8	10	B	6	0.7	3000	478-3892-1-ND	.50	.44	.39	478-3892-2-ND	2,000	170.00/M	TAJB685K010R
	6.8	20	B	6	0.7	3000	478-3893-1-ND	.50	.44	.39	478-3893-2-ND	2,000	170.00/M	TAJB685M010R
	10	10	A	6	1	3000	478-1654-1-ND	.43	.37	.33	478-1654-2-ND	2,000	145.00/M	TAJA106K010R
	10	20	A	6	1	3000	478-1657-1-ND	.40	.35	.31	478-1657-2-ND	2,000	136.00/M	TAJA106M010R
	10	20	P	8	1	6000	478-3281-1-ND	1.18	1.03	.90	478-3281-2-ND	2,500	400.00/M	TAJP106M010R
	10	10	B	6	1	2500	478-1672-1-ND	.53	.46	.40	478-1672-2-ND	2,000	179.00/M	TAJB106K010R
	10	20	B	6	1	2500	478-3875-1-ND	.50	.44	.39	478-3875-2-ND	2,000	171.00/M	TAJB106M010R
	10	10	T	6	1	3000	478-3967-1-ND	.88	.77	.67	478-3967-2-ND	2,500	320.00/M	TAJT106K010R
	15	20	B	6	1.5	2800	478-3035-1-ND	.53	.47	.41	478-3035-2-ND	2,000	181.00/M	TAJB156M010R
	15	10	A	6	1.5	3200	478-1660-1-ND	.50	.44	.38	478-1660-2-ND	2,000	170.00/M	TAJA156K010R
	15	10	B	6	1.5	2800	478-3068-1-ND	.90	.79	.69	478-3068-2-ND	2,000	306.00/M	TAJB156K010R
	15	20	A	6	1.5	3200	478-1661-1-ND	.50	.44	.38	478-1661-2-ND	2,000	162.00/M	TAJA156M010R
	22	10	A	8	2.2	3000	478-1663-1-ND†	.50	.44	.38	478-1663-2-ND	2,000	170.00/M	TAJA226K010R
	22	10	B	6	2.2	2400	478-3039-1-ND	.55	.48	.42	478-3039-2-ND	2,000	187.00/M	TAJB226K010R
	22	20	B	6	2.2	2400	478-3040-1-ND	.60	.53	.46	478-3040-2-ND	2,000	204.00/M	TAJB226M010R
	22	10	C	6	2.2	1800	478-3856-1-ND	.95	.83	.73	478-3856-2-ND	500	173.00	TAJC226K010R
	22	20	C	6	2.2	1800	478-3900-1-ND	.53	.46	.40	478-3900-2-ND	500	95.50	TAJC226M010R
	33	10	B	6	3.3	1800	478-1687-1-ND	1.15	1.01	.88	478-1687-2-ND	2,000	391.00/M	TAJB336K010R
	33	10	C	6	3.3	1600	478-3905-1-ND	.44	.39	.34	478-3905-2-ND	500	80.00	TAJC336K010R
	33	20	D	6	3.3	1100	478-3047-1-ND	1.57	1.37	1.20	478-3047-2-ND	500	285.50	TAJD336M010R
	47	10	B	8	4.7	1000	478-1693-1-ND	.88	.77	.67	478-1693-2-ND	2,000	298.00/M	TAJB476K010R
	47	20	B	8	4.7	1000	478-3891-1-ND	.88	.77	.67	478-3891-2-ND	2,000	298.00/M	TAJB476M010R
	47	10	C	6	4.7	1200	478-3910-1-ND	.35	.31	.27	478-3910-2-ND	500	64.00	TAJC476K010R
	47	20	C	6	4.7	1200	478-3911-1-ND	.40	.35	.31	478-3911-2-ND	500	72.00	TAJC476M010R
	47	10	D	6	4.7	400	478-3048-1-ND	.83	.72	.63	478-3048-2-ND	500	150.00	TAJD476K010R
	47	20	D	6	4.7	400	478-3937-1-ND	.83	.72	.63	478-3937-2-ND	500	150.00	TAJD476M010R
	47	10	W	6	4.7	1400	478-3282-1-ND	2.25	1.96	1.71	478-3282-2-ND	1,000	819.00	TAJW476K010R
	68	10	B	6	6.8	1400	478-3069-1-ND	.83	.73	.64	478-3069-2-ND	2,000	283.00/M	TAJB686K010R
	68	10	C	6	6.8	1300	478-1721-1-ND	1.25	1.09	.95	478-1721-2-ND	500	227.50	TAJC686K010R
	68	20	D	6	6.8	900	478-3942-1-ND	1.53	1.33	1.17	478-3942-2-ND	500	278.00	TAJD686M010R
	100	10	C	8	10	1200	478-1704-1-ND	1.25	1.09	.95	478-1704-2-ND	500	227.50	TAJC107K010R
	100	20	C	8	10	1200	478-3897-1-ND	1.25	1.09	.95	478-3897-2-ND	500	227.50	TAJC107M010R
	100	10	D	6	10	900	478-3355-1-ND	1.95	1.70	1.49	478-3355-2-ND	1,000	690.00	TAJD107K010R
	100	20	D	6	10	900	478-3918-1-ND	1.76	1.53	1.34	478-3918-2-ND	500	319.50	TAJD107M010R
	100	10	X	8	10	900	478-3283-1-ND	2.60	2.27	1.98	478-3283-2-ND	1,000	946.00	TAJX107K010R
	100	20	X	8	10	900	478-3971-1-ND	2.34	2.04	1.78	478-3971-2-ND	1,000	852.00	TAJX107M010R
	150	10	C	8	15	900	478-2352-1-ND†	2.25	1.96	1.71	478-2352-2-ND	500	382.50	TAJC157K010R
	150	10	D	6	15	900	478-2343-1-ND	2.65	2.31	2.02	478-2343-2-ND	500	450.50	TAJD157K010R
	150	10	E	8	15	900	478-3948-1-ND	1.60	1.40	1.22	478-3948-2-ND	400	232.80	TAJE157K010R
	150	20	E	8	15	900	478-3949-1-ND	4.39	3.83	3.34	478-3949-2-ND	400	639.60	TAJE157M010R
	150	20	Y	6	15	1200	478-3972-1-ND	2.94	2.56	2.24	—	—	—	TAJY157M010R
	220	10	C	18	22	500	478-4774-1-ND ***NEW!***	2.59	2.26	1.97	478-4774-2-ND ***NEW!***	500	471.50	TAJC227K010RNJ
	220	10	D	8	22	500	478-1731-1-ND	2.65	2.31	2.02	478-1731-2-ND	500	482.50	TAJD227K010R
	220	20	D	8	22	500	478-3929-1-ND	2.60	2.26	1.98	478-3929-2-ND	500	472.50	TAJD227M010R
	220	10	E	8	22	500	478-3951-1-ND	1.80	1.57	1.37	478-3951-2-ND	400	262.00	TAJE227K010R
	220	20	E	8	22	500	478-3952-1-ND	5.10	4.44	3.88	—	—	—	TAJE227M010R
	220	10	Y	10	22	500	478-3284-1-ND	3.00	2.61	2.28	478-3284-2-ND	1,000	1092.00	TAJY227K010R
	330	10	D	8	33	900	478-1736-1-ND†	4.80	4.18	3.65	478-1736-2-ND	500	873.50	TAJD337K010R
	330	20	D	8	33	900	478-3933-1-ND	4.45	3.88	3.39	478-3933-2-ND	500	810.00	TAJD337M010R
	330	10	E	8	33	900	478-1748-1-ND	5.25	4.57	3.99	478-1748-2-ND	400	764.40	TAJE337K010R
	330	20	E	8	33	900	478-3957-1-ND	5.25	4.57	3.99	478-3957-2-ND	400	764.40	TAJE337M010R
	470	10	E	10	47	500	478-1749-1-ND	7.10	6.18	5.40	478-1749-2-ND	400	1033.60	TAJE477K010R
	470	20	E	10	47	500	478-3959-1-ND	7.00	6.09	5.32	478-3959-2-ND	400	1019.20	TAJE477M010R
16	.68	20	R	4	0.5	25000	478-3058-1-ND	1.08	.94	.83	478-3058-2-ND	2,500	367.00/M	TAJR684M016R
	1	10	A	4	0.5	11000	478-1649-1-ND	.44	.39	.34	478-1649-2-ND	2,000	150.00/M	TAJA105K016R
	1	20	A	4	0.5	11000	478-1652-1-ND	.39	.34	.30	478-1652-2-ND	2,000	133.00/M	TAJA105M016R
	1	10	R	4	0.5	20000	478-3962-1-ND	.88	.77	.67	478-3962-2-ND	2,500	320.00/M	TAJR105K016R
	1	20	R	4	0.5	20000	478-3050-1-ND	1.08	.94	.83	478-3050-2-ND	2,500	367.00/M	TAJR105M016R
	1.5	10	A	6	0.5	8000	478-3860-1-ND	.48	.42	.37	478-3860-2-ND	2,000	162.00/M	TAJA155K016R
	1.5	20	A	6	0.5	8000	478-3025-1-ND	.48	.42	.37	478-3025-2-ND	2,000	162.00/M	TAJA155M016R
	2.2	10	A	6	0.5	6500	478-2353-1-ND	.43	.37	.33	478-2353-2-ND	2,000	145.00/M	TAJA225K016R
	2.2	20	A	6	0.5	6500	478-3863-1-ND	.38	.34	.29	478-3863-2-ND	2,000	130.00/M	TAJA225M016R
	2.2	10	B	6	0.5	5500	478-3879-1-ND	.50	.44	.39	478-3879-2-ND	2,000	171.00/M	TAJB225K016R
	2.2	20	B	6	0.5	5500	478-3036-1-ND	.50	.44	.39	478-3036-2-ND	2,000	171.00/M	TAJB255M016R
	3.3	10	A	6	0.5	5000	478-2354-1-ND	.43	.37	.33	478-2354-2-ND	2,000	145.00/M	TAJA335K016R
	3.3	10	T	6	0.5	500	478-3285-1-ND	1.40	1.22	1.07	478-3285-2-ND	2,500	476.00/M	TAJT335K016R
	3.3	10	B	6	0.5	4500	478-3884-1-ND	.50	.44	.39	478-3884-2-ND	2,000	171.00/M	TAJB335K016R
	3.3	20	B	6	0.5	4500	478-3041-1-ND	.50	.44	.39	478-3041-2-ND	2,000	171.00/M	TAJB335M016R
	4.7	10	A	6	0.8	4000	478-3868-1-ND	.40	.35	.31	478-3868-2-ND	2,000	136.00/M	TAJA475K016R
	4.7	20	A	6	0.8	4000	478-3032-1-ND	.40	.35	.31	478-3032-2-ND	2,000	136.00/M	TAJA475M016R
	4.7	10	B	6	0.8	3500	478-1689-1-ND	.53	.46	.40	478-1689-2-ND	2,000	179.00/M	TAJB475K016R
	4.7	20	B	6	0.8	3500	478-3888-1-ND	.53	.46	.40	478-3888-2-ND	2,000	179.00/M	TAJB475M016R
	6.8	10	A	6	1.1	3500	478-1670-1-ND	.48	.42	.37	478-1670-2-ND	2,000	162.00/M	TAJA685K016R
	6.8	20	B	6	1.1	2500	478-3046-1-ND	.50	.44	.39	478-3046-2-ND	2,000	171.00/M	TAJB685M016R
	10	10	A	8	1.6	3000	478-1655-1-ND	.50	.44	.38	478-1655-2-ND	2,000	170.00/M	TAJA106K016R
	10	20	A	8	1.6	3000	478-3859-1-ND	.40	.36	.31	478-3859-2-ND	2,000	137.00/M	TAJA106M016R
	10	10	B	6	1.6	2800	478-1673-1-ND	.55	.48	.42	478-1673-2-ND	2,000	187.00/M	TAJB106K016R
	10	20	B	6	1.6	2800	478-1675-1-ND	.53	.47	.41	478-1675-2-ND	2,000	181.00/M	TAJB106M016R
	10	10	C	6	1.6	2000	478-1698-1-ND	.48	.42	.37	478-1698-2-ND	500	86.50	TAJC106K016R
	10	20	C	6	1.6	2000	478-1702-1-ND	.40	.35	.31	478-1702-2-ND	500	73.00	TAJC106M016R
	10	10	T	8	1.6	2200	478-3968-1-ND	1.40	1.22	1.07	478-3968-2-ND	2,500	510.00/M	TAJT106K016R
	15	10	B	6	2.4	2500	478-2355-1-ND	.60	.53	.46	478-2355-2-ND	2,000	204.00/M	TAJB156K016R
	22	10	B	6	3.5	2300	478-1682-1-ND	.55	.48	.42	478-1682-2-ND	2,000	187.00/M	TAJB226K016R

(Continued)

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ@100kHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
16	22	20	B	6	3.5	2300	478-1684-1-ND	.55	.48	.42	478-1684-2-ND	2,000	187.00/M	TAJB226M016R
	22	10	C	6	3.5	1600	478-3899-1-ND	.31	.27	.24	478-3899-2-ND	500	56.50	TAJC226K016R
	22	20	C	6	3.5	1600	478-3901-1-ND	.34	.30	.26	478-3901-2-ND	500	62.00	TAJC226M016R
	22	10	D	6	3.5	1100	478-3922-1-ND	1.60	1.40	1.22	478-3922-2-ND	500	291.00	TAJD226K016R
	22	20	D	6	3.5	1100	478-3924-1-ND	1.57	1.37	1.20	478-3924-2-ND	500	285.50	TAJD226M016R
	33	10	B	8	5.3	2100	478-1688-1-ND†	.95	.83	.73	478-1688-2-ND	2,000	323.00/M	TAJB336K016R
	33	10	C	6	5.3	1500	478-1715-1-ND	.63	.55	.48	478-1715-2-ND	500	114.00	TAJC336K016R
	33	20	C	6	5.3	1500	478-3906-1-ND	.63	.55	.48	478-3906-2-ND	500	114.00	TAJC336M016R
	33	10	D	6	5.3	900	478-3930-1-ND	.40	.35	.31	478-3930-2-ND	500	73.00	TAJD336K016R
	33	20	D	6	5.3	900	478-3931-1-ND	.50	.44	.39	478-3931-2-ND	500	91.50	TAJD336M016R
	47	10	C	6	7.5	1400	478-1718-1-ND	1.00	.87	.76	478-1718-2-ND	500	182.00	TAJC476K016R
	47	20	C	6	7.5	1400	478-3912-1-ND	1.00	.87	.76	478-3912-2-ND	500	182.00	TAJC476M016R
	47	10	D	6	7.5	900	478-1739-1-ND	.83	.72	.63	478-1739-2-ND	500	150.00	TAJD476K016R
	47	20	D	6	7.5	900	478-3938-1-ND	.83	.72	.63	478-3938-2-ND	500	150.00	TAJD476M016R
	47	10	Y	6	7.5	700	478-3973-1-ND	3.00	2.61	2.28	—	—	—	TAJY476K016R
	68	10	C	6	10.9	1300	478-3070-1-ND†	1.62	1.41	1.24	478-3070-2-ND	500	295.00	TAJC686K016R
	68	10	D	6	10.9	900	478-1744-1-ND	1.60	1.40	1.22	478-1744-2-ND	500	291.00	TAJD686K016R
	68	20	D	6	10.9	900	478-3943-1-ND	1.60	1.40	1.22	478-3943-2-ND	500	291.00	TAJD686M016R
	100	10	D	6	16	900	478-1723-1-ND	1.30	1.14	.99	478-1723-2-ND	500	236.50	TAJD107K016R
	100	20	D	6	16	900	478-3919-1-ND	1.30	1.14	.99	478-3919-2-ND	500	236.50	TAJD107M016R
	100	10	E	6	16	900	478-3945-1-ND	1.32	1.15	1.01	478-3945-2-ND	400	192.00	TAJE107K016R
	100	20	E	6	16	900	478-3946-1-ND	1.45	1.27	1.11	478-3946-2-ND	400	211.60	TAJE107M016R
	150	10	D	6	24	900	478-2356-1-ND	3.25	2.83	2.47	478-2356-2-ND	500	552.50	TAJD157K016R
	150	20	D	6	24	900	478-3921-1-ND	3.25	2.83	2.47	478-3921-2-ND	500	591.50	TAJD157M016R
	220	10	E	10	35.2	500	478-2357-1-ND†	8.25	7.18	6.27	478-2357-2-ND	400	1122.00	TAJE227K016R
	220	20	E	10	35.2	500	478-3953-1-ND	6.47	5.63	4.92	478-3953-2-ND	400	941.60	TAJE227M016R
20	.1	10	R	4	0.5	25000	478-3286-1-ND	1.10	.96	.84	478-3286-2-ND	2,500	374.00/M	TAJR104K020R
	.22	20	R	4	0.5	25000	478-3963-1-ND	1.08	.94	.83	478-3963-2-ND	2,500	393.00/M	TAJR224M020R
	.47	10	R	4	0.5	25000	478-3964-1-ND	1.10	.96	.84	478-3964-2-ND	2,500	400.00/M	TAJR474K020R
	.47	10	S	4	0.5	25000	478-3287-1-ND	1.20	1.05	.92	—	—	—	TAJS474K020R
	1	10	A	4	0.5	9000	478-1650-1-ND	.45	.40	.35	478-1650-2-ND	2,000	153.00/M	TAJA105K020R
	1	10	T	4	0.5	900	478-3288-1-ND	1.40	1.22	1.07	478-3288-2-ND	2,500	476.00/M	TAJT105K020R
	1.5	10	A	6	0.5	6500	478-1658-1-ND	.35	.31	.27	478-1658-2-ND	2,000	119.00/M	TAJA155K020R
	2.2	10	A	6	0.5	5300	478-2358-1-ND	.45	.40	.35	478-2358-2-ND	2,000	153.00/M	TAJA225K020R
	2.2	20	A	6	0.5	5300	478-3864-1-ND	.34	.30	.26	478-3864-2-ND	2,000	116.00/M	TAJA225M020R
	2.2	10	B	6	0.5	3500	478-3880-1-ND	.19	.17	.15	478-3880-2-ND	2,000	65.00/M	TAJB225K020R
	2.2	20	B	6	0.5	3500	478-3037-1-ND	.50	.44	.39	478-3037-2-ND	2,000	171.00/M	TAJB225M020R
	2.2	10	R	6	0.5	6000	478-4693-1-ND ***NEW!***	1.10	.96	.84	478-4693-2-ND ***NEW!***	2,500	374.00/M	TAJR225K020RNJ
	3.3	10	A	6	0.7	4500	478-1664-1-ND	.48	.42	.37	478-1664-2-ND	2,000	162.00/M	TAJA335K020R
	3.3	10	B	6	0.7	3000	478-1685-1-ND	.50	.44	.39	478-1685-2-ND	2,000	171.00/M	TAJB335K020R
	3.3	20	B	6	0.7	3000	478-3885-1-ND	.50	.44	.39	478-3885-2-ND	2,000	171.00/M	TAJB335M020R
	4.7	10	A	6	0.9	4000	478-1668-1-ND†	.48	.42	.37	478-1668-2-ND	2,000	162.00/M	TAJA475K020R
	4.7	10	B	6	0.9	3000	478-3887-1-ND	.50	.44	.39	478-3887-2-ND	2,000	171.00/M	TAJB475K020R
	4.7	20	B	6	0.9	3000	478-3043-1-ND	.50	.44	.39	478-3043-2-ND	2,000	171.00/M	TAJB475M020R
	6.8	10	A	6	1.4	2000	478-3071-1-ND	.50	.44	.38	478-3071-2-ND	2,000	168.00/M	TAJA685K020R
	6.8	10	B	6	1.4	2500	478-1694-1-ND	.55	.48	.42	478-1694-2-ND	2,000	187.00/M	TAJB685K020R
	6.8	10	C	6	1.4	2000	478-1719-1-ND†	.55	.48	.42	478-1719-2-ND	500	100.00	TAJC685K020R
	10	10	B	6	2	2100	478-1674-1-ND	.50	.44	.38	478-1674-2-ND	2,000	170.00/M	TAJB106K020R
	10	20	B	6	2	2100	478-3876-1-ND	.50	.44	.38	478-3876-2-ND	2,000	170.00/M	TAJB106M020R
	10	10	C	6	2	1900	478-1699-1-ND	.46	.40	.35	478-1699-2-ND	500	83.50	TAJC106K020R
	10	20	C	6	2	1900	478-3895-1-ND	.46	.40	.35	478-3895-2-ND	500	83.50	TAJC106M020R
	15	10	B	6	3	2000	478-1679-1-ND	.60	.53	.46	478-1679-2-ND	2,000	204.00/M	TAJB156K020R
	15	10	C	6	3	1700	478-1707-1-ND	.88	.77	.67	478-1707-2-ND	500	159.50	TAJC156K020R
	22	10	B	6	4.4	1800	478-1683-1-ND†	.63	.55	.48	478-1683-2-ND	2,000	213.00/M	TAJB226K020R
	22	20	B	6	4.4	1800	478-3883-1-ND	.63	.55	.48	478-3883-2-ND	2,000	213.00/M	TAJB226M020R
	22	10	C	6	4.4	1600	478-1711-1-ND	1.00	.87	.76	478-1711-2-ND	500	182.00	TAJC226K020R
	22	20	C	6	4.4	1600	478-3902-1-ND	1.00	.87	.76	478-3902-2-ND	500	182.00	TAJC226M020R
	22	10	D	6	4.4	900	478-3923-1-ND	1.68	1.46	1.28	478-3923-2-ND	500	305.00	TAJD226K020R
	22	20	D	6	4.4	900	478-3925-1-ND	1.64	1.43	1.25	478-3925-2-ND	500	298.50	TAJD226M020R
	33	10	C	6	6.6	1500	478-1716-1-ND	1.00	.87	.76	478-1716-2-ND	500	182.00	TAJC336K020R
	33	10	D	6	6.6	900	478-1734-1-ND	.75	.66	.57	478-1734-2-ND	500	136.50	TAJD336K020R
	47	10	C	6	9.4	900	478-2359-1-ND	1.98	1.72	1.51	478-2359-2-ND	500	336.00	TAJC476K020R
	47	10	D	6	9.4	900	478-3936-1-ND	.60	.53	.46	478-3936-2-ND	500	109.00	TAJD476K020R
	68	10	D	6	13.6	900	478-1745-1-ND	2.30	2.01	1.75	478-1745-2-ND	500	418.50	TAJD686K020R
	68	10	E	6	13.6	900	478-3960-1-ND	3.20	2.79	2.44	478-3960-2-ND	400	466.00	TAJE686K020R
	100	10	D	6	20	900	478-1724-1-ND†	3.25	2.83	2.47	478-1724-2-ND	500	591.50	TAJD107K020R
	100	10	E	6	20	900	478-1746-1-ND	3.08	2.68	2.34	478-1746-2-ND	400	447.60	TAJE107K020R
	100	20	E	6	20	900	478-3947-1-ND	3.08	2.68	2.34	478-3947-2-ND	400	447.60	TAJE107M020R
	150	10	E	8	30	300	478-2360-1-ND	5.49	4.78	4.18	478-2360-2-ND	400	746.80	TAJE157K020R
25	.47	10	A	4	0.5	14000	478-2339-1-ND	1.00	.87	.76	478-2339-2-ND	2,000	340.00/M	TAJA474K025R
	.68	10	A	4	0.5	10000	478-2362-1-ND	1.00	.87	.76	—	—	—	TAJA684K025R
	.68	20	A	4	0.5	10000	478-3033-1-ND	1.00	.87	.76	—	—	—	TAJA684M025R
	1	10	A	4	0.5	8000	478-2363-1-ND	.48	.42	.37	478-2363-2-ND	2,000	162.00/M	TAJA105K025R
	1	20	A	4	0.5	8000	478-3857-1-ND	.38	.34	.29	478-3857-2-ND	2,000	130.00/M	TAJA105M025R
	1.5	10	A	6	0.5	7500	478-2364-1-ND	.45	.40	.35	478-2364-2-ND	2,000	153.00/M	TAJA155K025R
	1.5	20	B	6	0.5	5000	478-3034-1-ND	.50	.44	.39	478-3034-2-ND	2,000	171.00/M	TAJB155M025R
	2.2	10	A	6	0.6	7000	478-1662-1-ND	.48	.42	.37	478-1662-2-ND	2,000	162.00/M	TAJA225K025R
	2.2	10	B	6	0.6	4500	478-3881-1-ND	.21	.19	.17	478-3881-2-ND	2,000	72.00/M	TAJB225K025R
	2.2	20	B	6	0.6	4500	478-3038-1-ND	.50	.44	.39	478-3038-2-ND	2,000	171.00/M	TAJB225M025R
	3.3	10	A	6	0.8	3700	478-3072-1-ND	.50	.44	.38	478-3072-2-ND	2,000	168.00/M	TAJA335K025R
	3.3	10	B	6	0.8	3500	478-2365-1-ND ***NEW!***	.75	.66	.57	478-2365-2-ND ***NEW!***	2,000	255.00/M	TAJB335K025R
	3.3	10	C	6	0.8	2800	478-3903-1-ND	.74	.65	.57	478-3903-2-ND	500	134.50	TAJC335K025R
	3.3	20	C	6	0.8	2800	478-3904-1-ND	.72	.63	.56	478-3904-2-ND	500	132.00	TAJC335M025R
	4.7	10	B	6	1.2	2800	478-1690-1-ND	.55	.48	.42	478-1690-2-ND	2,000	187.00/M	TAJB475K025R
	4.7	10	C	6	1.2	2400	478-3907-1-ND	.38	.34	.29	478-3907-2-ND	500	69.00	TAJC475K025R
	4.7	20	C	6	1.2	2400	478-3908-1-ND	.38	.34	.29	478-3908-2-ND	500	69.00	TAJC475M025R
	6.8	10	B	6	1.7	2800	478-1695-1-ND†	.65	.57	.50	478-1695-2-ND	2,000	221.00/M	TAJB685K025R
	6.8	10	C	6	1.7	2000	478-3913-1-ND	.42	.37	.32	478-3913-2-ND	500	75.50	TAJC685K025R
	10	10	C	6	2.5	1800	478-1700-1-ND	.53	.46	.40	478-1700-2-ND	500	95.50	TAJC106K025R
	10	20	C	6	2.5	1800	478-3896-1-ND	.48	.42	.37	478-3896-2-ND	500	86.50	TAJC106M025R

(Continued)

TAJ Series Standard Surface Mount Tantalum Capacitors *(Cont.)*

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ@100kHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
25	10	10	D	6	2.5	1200	478-3354-1-ND	1.68	1.46	1.28	478-3354-2-ND	500	305.00	TAJD106K025R
	10	20	D	6	2.5	1200	478-3915-1-ND	1.50	1.31	1.14	478-3915-2-ND	500	273.00	TAJD106M025R
	10	10	W	6	2.5	1800	478-3289-1-ND	2.25	1.96	1.71	478-3289-2-ND	1,000	819.00	TAJW106K025R
	15	10	D	6	3.8	1000	478-1726-1-ND	.83	.72	.63	478-1726-2-ND	500	150.00	TAJD156K025R
	22	20	C	6	5.5	1400	478-1712-1-ND†	1.05	.92	.80	478-1712-2-ND	500	191.00	TAJC226M025R
	22	10	D	6	5.5	900	478-1729-1-ND	.83	.72	.63	478-1729-2-ND	500	150.00	TAJD226K025R
	22	20	D	6	5.5	900	478-3926-1-ND	1.64	1.43	1.25	478-3926-2-ND	500	298.50	TAJD226M025R
	33	10	D	6	8.3	900	478-2366-1-ND	3.25	2.83	2.47	478-2366-2-ND	500	552.50	TAJD336K025R
	33	10	E	6	8.3	900	478-3954-1-ND	1.32	1.15	1.01	478-3954-2-ND	400	192.00	TAJE336K025R
	47	10	D	6	11.8	900	478-1740-1-ND†	3.89	3.39	2.96	478-1740-2-ND	500	708.00	TAJD476K025R
	47	20	D	6	11.8	900	478-3939-1-ND	1.24	1.08	.94	478-3939-2-ND	500	225.00	TAJD476M025R
	68	10	E	6	17	900	478-1750-1-ND	8.25	7.18	6.27	478-1750-2-ND	400	1201.20	TAJE686K025R
	68	20	E	6	17	900	478-3961-1-ND	6.88	5.99	5.23	478-3961-2-ND	400	1001.20	TAJE686M025R
	100	10	V	8	25	400	478-2367-1-ND	9.25	8.05	7.03	478-2367-2-ND	400	1258.00	TAJV107K025R
	100	20	V	8	25	400	478-3970-1-ND	9.15	7.97	6.96	478-3970-2-ND	400	1332.40	TAJV107M025R
35	.1	10	A	4	0.5	24000	478-2368-1-ND	1.00	.87	.76	478-2368-2-ND	2,000	340.00/M	TAJA104K035R
	.15	10	A	4	0.5	21000	478-2336-1-ND	1.00	.87	.76	478-2336-2-ND	2,000	340.00/M	TAJA154K035R
	.22	10	A	4	0.5	18000	478-2337-1-ND	1.00	.87	.76	478-2337-2-ND	2,000	340.00/M	TAJA224K035R
	.33	10	A	4	0.5	15000	478-2338-1-ND	1.00	.87	.76	478-2338-2-ND	2,000	340.00/M	TAJA334K035R
	.47	10	A	4	0.5	12000	478-2340-1-ND	1.00	.87	.76	478-2340-2-ND	2,000	340.00/M	TAJA474K035R
	.47	10	B	4	0.5	10000	478-2373-1-ND	1.50	1.31	1.14	478-2373-2-ND	2,000	510.00/M	TAJB474K035R
	.68	10	A	4	0.5	8000	478-2341-1-ND	1.00	.87	.76	478-2341-2-ND	2,000	340.00/M	TAJA684K035R
	.68	20	B	4	0.5	8000	478-3044-1-ND	.75	.66	.57	478-3044-2-ND	2,000	255.00/M	TAJB684M035R
	1	10	A	4	0.5	7500	478-1651-1-ND†	.50	.44	.38	478-1651-2-ND	2,000	170.00/M	TAJA105K035R
	1	20	A	4	0.5	7500	478-3858-1-ND	.40	.35	.31	478-3858-2-ND	2,000	136.00/M	TAJA105M035R
	1	10	B	4	0.5	6500	478-1671-1-ND	.50	.44	.39	478-1671-2-ND	2,000	171.00/M	TAJB105K035R
	1	20	B	4	0.5	6500	478-3872-1-ND	.50	.44	.39	478-3872-2-ND	2,000	171.00/M	TAJB105M035R
	1.5	10	A	6	0.5	7500	478-1659-1-ND	.70	.61	.54	478-1659-2-ND	2,000	238.00/M	TAJA155K035R
	1.5	10	B	6	0.5	5200	478-1678-1-ND	.60	.53	.46	478-1678-2-ND	2,000	204.00/M	TAJB155K035R
	1.5	10	C	6	0.5	4500	478-1705-1-ND	.93	.81	.71	—	—	—	TAJC155K035R
	2.2	10	A	6	0.8	4500	478-3073-1-ND	.90	.79	.69	478-3073-2-ND	2,000	306.00/M	TAJA225K035R
	2.2	10	B	6	0.8	4200	478-1680-1-ND	.53	.46	.40	478-1680-2-ND	2,000	179.00/M	TAJB225K035R
	2.2	20	B	6	0.8	4200	478-3882-1-ND	.53	.46	.40	478-3882-2-ND	2,000	179.00/M	TAJB225M035R
	2.2	10	C	6	0.8	3500	478-1710-1-ND	.55	.48	.42	478-1710-2-ND	500	100.00	TAJC225K035R
	2.2	10	T	6	0.8	4200	478-3290-1-ND	1.40	1.22	1.07	478-3290-2-ND	2,500	476.00/M	TAJT225K035R
	3.3	10	B	6	1.2	3500	478-1686-1-ND	.55	.48	.42	478-1686-2-ND	2,000	187.00/M	TAJB335K035R
	3.3	10	C	6	1.2	2500	478-1714-1-ND	.53	.46	.40	478-1714-2-ND	500	95.50	TAJC335K035R
	4.7	10	B	6	1.2	3100	478-1691-1-ND†	.65	.57	.50	478-1691-2-ND	2,000	221.00/M	TAJB475K035R
	4.7	20	B	6	1.2	3100	478-3889-1-ND	.65	.57	.50	478-3889-2-ND	2,000	221.00/M	TAJB475M035R
	4.7	10	C	6	1.6	2200	478-1717-1-ND	.53	.46	.40	478-1717-2-ND	500	95.50	TAJC475K035R
	4.7	20	C	6	1.6	2200	478-3909-1-ND	.53	.46	.40	478-3909-2-ND	500	95.50	TAJC475M035R
	4.7	10	D	6	1.6	1500	478-1737-1-ND	.83	.72	.63	478-1737-2-ND	500	150.00	TAJD475K035R
	4.7	20	D	6	1.6	1500	478-3934-1-ND	.83	.72	.63	478-3934-2-ND	500	150.00	TAJD475M035R
	6.8	10	C	6	2.4	1800	478-1720-1-ND	.63	.55	.48	478-1720-2-ND	500	114.00	TAJC685K035R
	6.8	10	D	6	2.4	1300	478-1742-1-ND	.83	.72	.63	478-1742-2-ND	500	150.00	TAJD685K035R
	10	10	C	6	3.5	1600	478-1701-1-ND†	.95	.83	.73	478-1701-2-ND	500	173.00	TAJC106K035R
	10	10	D	6	3.5	1000	478-1722-1-ND	.88	.77	.67	478-1722-2-ND	500	159.50	TAJD106K035R
	10	20	D	6	3.5	1000	478-3916-1-ND	.88	.77	.67	478-3916-2-ND	500	159.50	TAJD106M035R
	15	10	C	6	5.3	1400	478-1708-1-ND	1.25	1.09	.95	478-1708-2-ND	500	227.50	TAJC156K035R
	15	10	D	6	5.3	900	478-1727-1-ND	1.05	.92	.80	478-1727-2-ND	500	191.00	TAJD156K035R
	15	20	D	6	5.3	900	478-3920-1-ND	1.05	.92	.80	478-3920-2-ND	500	191.00	TAJD156M035R
	22	10	D	6	7.7	900	478-1730-1-ND†	1.90	1.66	1.45	478-1730-2-ND	500	346.00	TAJD226K035R
	22	20	D	6	7.7	900	478-3927-1-ND	1.90	1.66	1.45	478-3927-2-ND	500	346.00	TAJD226M035R
	22	10	E	6	7.7	900	478-1747-1-ND	4.25	3.70	3.23	478-1747-2-ND	400	618.80	TAJE226K035R
	22	20	E	6	7.7	900	478-3950-1-ND	4.25	3.70	3.23	478-3950-2-ND	400	618.80	TAJE226M035R
	33	10	D	6	11.6	900	478-1735-1-ND	2.40	2.09	1.83	478-1735-2-ND	500	437.00	TAJD336K035R
	33	20	D	6	11.6	900	478-3932-1-ND	2.40	2.09	1.83	478-3932-2-ND	500	437.00	TAJD336M035R
	47	10	E	6	16.5	900	478-3074-1-ND†	7.43	6.46	5.65	478-3074-2-ND	400	1081.20	TAJE476K035R
	47	20	E	6	16.5	900	478-3958-1-ND	6.88	5.99	5.23	478-3958-2-ND	400	1001.20	TAJE476M035R
50	0.1	10	A	4	0.5	22000	478-1648-1-ND	.75	.66	.57	478-1648-2-ND	2,000	255.00/M	TAJA104K050R
	.15	10	A	4	0.5	15000	478-2375-1-ND	1.00	.87	.76	478-2375-2-ND	2,000	340.00/M	TAJA154K050R
	.22	10	A	4	0.5	18000	478-2376-1-ND	1.00	.87	.76	478-2376-2-ND	2,000	340.00/M	TAJA224K050R
	.33	10	B	4	0.5	12000	478-2377-1-ND†	1.50	1.31	1.14	478-2377-2-ND	2,000	510.00/M	TAJB334K050R
	.47	10	B	4	0.7	9500	478-2378-1-ND	1.50	1.31	1.14	478-2378-2-ND	2,000	510.00/M	TAJB474K050R
	.68	10	B	4	0.5	8000	478-2379-1-ND	1.50	1.31	1.14	478-2379-2-ND	2,000	510.00/M	TAJB684K050R
	.68	10	C	4	0.5	7000	478-2342-1-ND	2.25	1.96	1.71	478-2342-2-ND	500	382.50	TAJC684K050R
	1	10	B	4	0.5	7000	478-3075-1-ND	1.35	1.18	1.03	478-3075-2-ND	2,000	459.00/M	TAJB105K050R
	1	10	C	4	0.5	5500	478-1697-1-ND†	.75	.66	.57	478-1697-2-ND	500	136.50	TAJC105K050R
	1	20	C	4	0.5	5500	478-3894-1-ND	.75	.66	.57	478-3894-2-ND	500	136.50	TAJC105M050R
	1.5	10	C	6	0.8	4500	478-1706-1-ND	2.25	1.96	1.71	478-1706-2-ND	500	409.50	TAJC155K050R
	1.5	10	D	6	0.8	4000	478-1725-1-ND	4.60	4.01	3.50	478-1725-2-ND	500	837.00	TAJD155K050R
	2.2	10	D	6	1.1	2500	478-1728-1-ND	1.43	1.24	1.09	478-1728-2-ND	500	259.50	TAJD225K050R
	3.3	10	C	6	1.7	2500	478-3076-1-ND	2.03	1.77	1.54	478-3076-2-ND	500	368.50	TAJC335K050R
	3.3	10	D	6	1.7	2000	478-1733-1-ND	1.40	1.22	1.07	478-1733-2-ND	500	255.00	TAJD335K050R
	4.7	10	C	4	0.5	1400	478-4775-1-ND ***NEW!***	2.25	1.96	1.71	478-4775-2-ND ***NEW!***	500	409.50	TAJC475K050RNJ
	4.7	10	D	6	2.4	1400	478-1738-1-ND	1.43	1.24	1.09	478-1738-2-ND	500	259.50	TAJD475K050R
	4.7	20	D	6	2.4	1400	478-3935-1-ND	1.43	1.24	1.09	478-3935-2-ND	500	259.50	TAJD475M050R
	6.8	10	C	6	3.4	1000	478-4776-1-ND ***NEW!***	2.25	1.96	1.71	478-4776-2-ND ***NEW!***	500	409.50	TAJC685K050RNJ
	6.8	10	D	6	3.4	1000	478-1743-1-ND†	5.25	4.57	3.99	478-1743-2-ND	500	955.50	TAJD685K050R
	6.8	20	D	6	3.4	1000	478-3941-1-ND	4.12	3.59	3.13	478-3941-2-ND	500	749.00	TAJD685M050R
	10	10	D	6	5	800	478-2380-1-ND	5.25	4.57	3.99	478-2380-2-ND	500	892.50	TAJD106K050R
	10	10	E	6	5	1000	478-3291-1-ND†	11.25	9.79	8.55	478-3291-2-ND	400	1638.00	TAJE106K050R
	10	20	E	6	5	1000	478-3944-1-ND	9.60	8.36	7.30	478-3944-2-ND	400	1397.60	TAJE106M050R
	15	10	E	6	7.5	600	478-3077-1-ND	10.13	8.81	7.70	478-3077-2-ND	400	1474.40	TAJE156K050R

† 478-3443-ND ***TAJ Series Capacitors Kit*** 5 each of values denoted. Packaged in convenient mini-style notebook.. **$46.25**

AVX TPS Series Low ESR Surface Mount Tantalum Capacitors

Digi-Reel® RoHS COMPLIANT

TPS surface mount products have inherently low ESR (equivalent series resistance) and are capable of higher ripple current handling, producing lower ripple voltages, less power and heat dissipation than standard product for the most efficient use of circuit power.

TPS has been designed, manufactured, and preconditioned for optimum performance in typical power supply applications.

- **Temperature Range:** -55°C ~ 125°C

Case Size	EIA Code	Dimensions - mm L	W	H	W_1	A	S (Min.)
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
T	3528-12	3.50	2.80	1.20	2.20	0.80	1.40
V	7361-38	7.30	6.10	3.45	3.10	1.40	4.40
W	6032-15	6.00	3.20	1.50	2.20	1.30	2.90
Y	7343-20	7.30	4.30	2.00	2.40	1.30	4.40

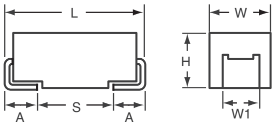

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
4	47	10	A	8	1.9	500	478-2381-1-ND	1.00	.87	.76	478-2381-2-ND	2,000	340.00/M	TPSA476K004R0500
	220	10	D	8	8.8	100	478-2382-1-ND	4.20	3.66	3.20	—	—	—	TPSD227K004R0100
	220	10	D	8	8.8	50	478-3310-1-ND†	4.40	3.83	3.35	478-3310-2-ND	500	801.00	TPSD227K004R0050
	330	10	D	8	13.2	35	478-2383-1-ND	14.65	12.75	11.14	478-2383-2-ND	500	2666.50	TPSD337K004R0035
	330	10	D	8	13.2	100	478-2384-1-ND	11.40	9.92	8.67	478-2384-2-ND	500	2075.00	TPSD337K004R0100
	470	10	D	12	18.8	45	478-2385-1-ND	9.00	7.83	6.84	478-2385-2-ND	500	1638.00	TPSD477K004R0045
	680	10	D	14	27.2	100	478-2386-1-ND	12.95	11.27	9.85	478-2386-2-ND	500	2357.00	TPSD687K004R0100
	680	10	D	14	27.2	45	478-3078-1-ND	12.24	10.65	9.31	478-3078-2-ND	500	2227.50	TPSD687K004R0045
	1000	10	V	16	40	35	478-3311-1-ND†	19.25	16.75	14.63	478-3311-2-ND	400	2802.80	TPSV108K004R0035
	1000	10	V	16	40	40	478-2387-1-ND	18.75	16.32	14.25	478-2387-2-ND	400	2730.00	TPSV108K004R0040
6.3	10	10	A	6	0.6	1500	478-2388-1-ND	1.00	.87	.76	478-2388-2-ND	2,000	340.00/M	TPSA106K006R1500
	22	10	A	6	1.4	900	478-1754-1-ND†	.75	.66	.57	478-1754-2-ND	2,000	255.00/M	TPSA226K006R0900
	33	10	A	8	2.1	600	478-1755-1-ND	1.00	.87	.76	478-1755-2-ND	2,000	340.00/M	TPSA336K006R0600
	47	10	A	10	2.8	800	478-3079-1-ND	.90	.79	.69	478-3079-2-ND	2,000	306.00/M	TPSA476K006R0800
	47	10	B	6	3	250	478-2389-1-ND†	1.25	1.09	.95	478-2389-2-ND	2,000	425.00/M	TPSB476K006R0250
	68	20	B	8	4.3	500	478-1761-1-ND	1.20	1.05	.92	478-1761-2-ND	2,000	408.00/M	TPSB686M006R0500
	68	10	W	6	4.3	125	478-3312-1-ND	4.00	3.48	3.04	478-3312-2-ND	1,000	1456.00	TPSW686K006R0125
	100	10	C	6	6.3	150	478-1764-1-ND	2.00	1.74	1.52	478-1764-2-ND	500	364.00	TPSC107K006R0150
	100	10	B	10	6.3	250	478-3080-1-ND	1.13	.98	.86	478-3080-2-ND	2,000	383.00/M	TPSB107K006R0250
	100	10	C	6	6.3	75	478-3313-1-ND†	3.20	2.79	2.44	478-3313-2-ND	500	582.50	TPSC107K006R0075
	100	20	C	6	6.3	150	478-4090-1-ND	2.40	2.09	1.83	478-4090-2-ND	500	437.00	TPSC107M006R0150
	150	10	C	6	9.5	150	478-2390-1-ND	2.65	2.31	2.02	478-2390-2-ND	500	482.50	TPSC157K006R0150
	220	10	C	8	13.9	125	478-1768-1-ND	1.85	1.61	1.41	478-1768-2-ND	500	336.50	TPSC227K006R0125
	220	10	C	8	13.9	70	478-3081-1-ND	2.16	1.88	1.65	478-3081-2-ND	500	393.00	TPSC227K006R0070
	220	10	D	8	13.2	100	478-3362-1-ND	4.20	3.66	3.20	478-3362-2-ND	500	764.50	TPSD227K006R0100
	220	20	D	8	13.2	100	478-3061-1-ND	3.50	3.05	2.66	478-3061-2-ND	500	637.00	TPSD227M006R0100
	330	10	D	8	20.8	45	478-3314-1-ND	14.40	12.53	10.95	478-3314-2-ND	500	2621.00	TPSD337K006R0045
	330	10	D	8	20.8	50	478-4114-1-ND	14.40	12.53	10.95	—	—	—	TPSD337K006R0050
	330	20	D	8	20.8	45	478-4115-1-ND	14.25	12.40	10.83	478-4115-2-ND	500	2593.50	TPSD337M006R0045
	330	10	E	8	20.8	100	478-4135-1-ND	10.40	9.05	7.91	478-4135-2-ND	400	1514.40	TPSE337K006R0100
	330	20	E	8	20.8	100	478-1804-1-ND	9.50	8.27	7.22	478-1804-2-ND	400	1383.20	TPSE337M006R0100
	330	10	Y	12	20.8	100	478-4698-1-ND ***NEW!***	6.25	5.44	4.75	478-4698-2-ND ***NEW!***	1,000	2275.00	TPSY337K006R0100
	330	20	Y	12	20.8	150	478-4166-1-ND	6.15	5.36	4.68	478-4166-2-ND	1,000	2239.00	TPSY337M006R0150
	470	10	D	12	29.6	45	478-3082-1-ND	7.11	6.19	5.41	478-3082-2-ND	500	1294.00	TPSD477K006R0045
	470	10	D	12	29.6	100	478-3315-1-ND†	7.30	6.36	5.55	478-3315-2-ND	500	1328.50	TPSD477K006R0100
	470	20	D	12	29.6	100	478-1790-1-ND	6.95	6.05	5.29	478-1790-2-ND	500	1265.00	TPSD477M006R0100
	470	20	D	12	29.6	200	478-1791-1-ND	5.65	4.92	4.30	478-1791-2-ND	500	1028.50	TPSD477M006R0200
	470	10	E	10	29.6	45	478-3316-1-ND†	13.35	11.62	10.15	478-3316-2-ND	400	1943.60	TPSE477K006R0045
	470	20	E	10	29.6	50	478-4147-1-ND	13.13	11.43	9.98	478-4147-2-ND	400	1911.60	TPSE477M006R0050
	470	10	V	10	29.6	55	478-4161-1-ND	15.25	13.27	11.59	478-4161-2-ND	400	2220.40	TPSV477K006R0055
	470	10	Y	20	28.2	150	478-4707-1-ND ***NEW!***	6.25	5.44	4.75	478-4707-2-ND ***NEW!***	1,000	2275.00	TPSY477K006R0150
	680	10	E	10	42.8	45	478-1809-1-ND	14.50	12.62	11.02	478-1809-2-ND	400	2111.20	TPSE687K006R0045
	680	10	V	14	42.8	35	478-3083-1-ND	13.73	11.95	10.44	478-3083-2-ND	400	1998.40	TPSV687K006R0035
	680	20	V	14	42.8	35	478-4165-1-ND	15.00	13.05	11.40	478-4165-2-ND	400	2184.00	TPSV687M006R0035
10	2.2	10	A	6	0.5	1800	478-1753-1-ND	.75	.66	.57	478-1753-2-ND	2,000	255.00/M	TPSA225K010R1800
	4.7	10	A	6	0.5	1400	478-2391-1-ND†	1.00	.87	.76	478-2391-2-ND	2,000	340.00/M	TPSA475K010R1400
	6.8	10	A	6	0.7	1800	478-2392-1-ND	1.00	.87	.76	478-2392-2-ND	2,000	340.00/M	TPSA685K010R1800
	10	10	A	6	1	900	478-1751-1-ND	.70	.61	.54	478-1751-2-ND	2,000	238.00/M	TPSA106K010R0900
	10	10	A	6	1	1800	478-3317-1-ND†	1.00	.87	.76	478-3317-2-ND	2,000	340.00/M	TPSA106K010R1800
	10	20	A	6	1	1800	478-4086-1-ND	4.00	3.48	3.04	478-4086-2-ND	2,000	1360.00/M	TPSA106M010R1800
	10	10	T	6	1	1000	478-4153-1-ND	1.60	1.40	1.22	478-4153-2-ND	2,500	544.00/M	TPST106K010R1000
	15	10	A	6	1.5	1000	478-1752-1-ND	.75	.66	.57	478-1752-2-ND	2,000	255.00/M	TPSA156K010R1000
	22	10	B	6	2.2	700	478-3318-1-ND†	1.25	1.09	.95	478-3318-2-ND	2,000	425.00/M	TPSB226K010R0700
	22	10	B	6	2.2	400	478-2393-1-ND	1.25	1.09	.95	478-2393-2-ND	2,000	425.00/M	TPSB226K010R0400
	22	20	B	6	2.2	700	478-4088-1-ND	1.20	1.05	.92	478-4088-2-ND	2,000	408.00/M	TPSB226M010R0700
	33	10	B	6	3.3	425	478-1759-1-ND	1.20	1.05	.92	478-1759-2-ND	2,000	408.00/M	TPSB336K010R0425
	33	10	C	6	3.3	150	478-3319-1-ND	2.65	2.31	2.02	478-3319-2-ND	500	482.50	TPSC336K010R0150
	33	10	C	6	3.3	375	478-1770-1-ND	2.00	1.74	1.52	478-1770-2-ND	500	364.00	TPSC336K010R0375
	47	10	B	8	4.7	250	478-3085-1-ND	1.13	.98	.86	478-3085-2-ND	2,000	383.00/M	TPSB476K010R0250
	47	10	B	8	4.7	500	478-4089-1-ND	1.25	1.09	.95	478-4089-2-ND	2,000	425.00/M	TPSB476K010R0500
	47	10	B	8	4.7	650	478-1760-1-ND	1.25	1.09	.95	478-1760-2-ND	2,000	425.00/M	TPSB476K010R0650
	47	10	C	6	4.7	350	478-4093-1-ND	2.10	1.83	1.60	478-4093-2-ND	500	382.00	TPSC476K010R0350
	47	20	C	6	4.7	350	478-3059-1-ND	1.75	1.53	1.33	478-3059-2-ND	500	318.50	TPSC476M010R0350
	68	10	B	8	6.8	600	478-3084-1-ND	1.13	.98	.86	478-3084-2-ND	2,000	383.00/M	TPSB686K010R0600
	100	10	C	8	10	75	478-3086-1-ND†	2.48	2.16	1.89	478-3086-2-ND	500	450.50	TPSC107K010R0075
	100	10	C	8	10	100	478-1765-1-ND	1.88	1.64	1.43	478-1765-2-ND	500	341.50	TPSC107K010R0100
	100	10	C	8	10	200	478-3357-1-ND	2.45	2.14	1.87	478-3357-2-ND	500	446.00	TPSC107K010R0200
	100	20	C	8	10	100	478-4091-1-ND	2.50	2.18	1.90	478-4091-2-ND	5,000	800.00/M	TPSC107M010R0100
	100	10	D	6	10	50	478-3320-1-ND†	5.35	4.66	4.07	478-3320-2-ND	500	973.50	TPSD107K010R0050
	100	10	D	6	10	65	478-1776-1-ND	3.90	3.40	2.97	478-1776-2-ND	500	710.00	TPSD107K010R0065
	100	10	D	6	10	100	478-1777-1-ND	2.35	2.05	1.79	478-1777-2-ND	500	427.50	TPSD107K010R0100
	100	20	D	6	10	50	478-4095-1-ND	5.00	4.35	3.80	478-4095-2-ND	500	910.00	TPSD107M010R0050
	100	20	D	6	10	65	478-4096-1-ND	4.50	3.92	3.42	478-4096-2-ND	500	819.00	TPSD107M010R0065
	100	20	D	6	10	80	478-4097-1-ND	4.00	3.48	3.04	478-4097-2-ND	500	728.00	TPSD107M010R0080
	100	20	D	6	10	100	478-1779-1-ND	2.35	2.05	1.79	478-1779-2-ND	500	427.50	TPSD107M010R0100
	150	10	D	6	15	50	478-3321-1-ND	5.75	5.01	4.37	478-3321-2-ND	500	1046.50	TPSD157K010R0050
	150	10	D	8	15	100	478-1781-1-ND	3.50	3.05	2.66	478-1781-2-ND	500	637.00	TPSD157K010R0100
	150	20	D	6	15	50	478-4102-1-ND	4.00	3.48	3.04	478-4102-2-ND	500	728.00	TPSD157M010R0050
	150	20	D	8	15	100	478-4103-1-ND	4.00	3.48	3.04	478-4103-2-ND	500	728.00	TPSD157M010R0100
	220	10	D	8	22	50	478-4108-1-ND	9.75	8.49	7.41	478-4108-2-ND	500	1774.50	TPSD227K010R0050
	220	10	D	8	22	100	478-3322-1-ND†	8.25	7.18	6.27	478-3322-2-ND	500	1501.50	TPSD227K010R0100
	220	10	D	8	22	150	478-1784-1-ND	6.75	5.88	5.13	478-1784-2-ND	500	1228.50	TPSD227K010R0150
	220	20	D	8	22	50	478-4109-1-ND	9.60	8.36	7.30	478-4109-2-ND	500	1747.00	TPSD227M010R0050
	220	20	D	8	22	100	478-4110-1-ND	5.00	4.35	3.80	478-4110-2-ND	500	910.00	TPSD227M010R0100
	220	10	E	8	22	50	478-3323-1-ND†	12.75	11.10	9.69	478-3323-2-ND	400	1856.40	TPSE227K010R0050
	220	10	E	8	22	100	478-1799-1-ND	9.50	8.27	7.22	478-1799-2-ND	400	1383.20	TPSE227K010R0100
	220	20	E	8	22	100	478-4130-1-ND	9.90	8.62	7.53	478-4130-2-ND	400	1441.60	TPSE227M010R0100

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

AVX **TPS Series** Low ESR Surface Mount Tantalum Capacitors *(Cont.)*

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
10	330	10	D	8	33	50	478-3087-1-ND	12.11	10.54	9.20	478-3087-2-ND	500	2203.00	TPSD337K010R0050
	330	10	D	8	33	100	478-1787-1-ND	6.85	5.96	5.21	478-1787-2-ND	500	1246.50	TPSD337K010R0100
	330	20	D	8	33	100	478-4116-1-ND	12.50	10.88	9.50	478-4116-2-ND	500	2275.00	TPSD337M010R0100
	330	20	D	8	33	150	478-4117-1-ND	11.25	9.79	8.55	478-4117-2-ND	500	2047.50	TPSD337M010R0150
	330	10	E	8	33	40	478-4136-1-ND	15.25	13.27	11.59	478-4136-2-ND	400	2220.40	TPSE337K010R0040
	330	10	E	8	33	50	478-4137-1-ND	15.00	13.05	11.40	478-4137-2-ND	400	2184.00	TPSE337K010R0050
	330	10	E	8	33	60	478-4138-1-ND	14.75	12.84	11.21	478-4138-2-ND	400	2147.60	TPSE337K010R0060
	330	10	E	8	33	100	478-4139-1-ND	13.25	11.53	10.07	478-4139-2-ND	400	1929.20	TPSE337K010R0100
	330	20	E	8	33	50	478-4140-1-ND	14.25	12.40	10.83	478-4140-2-ND	400	2074.80	TPSE337M010R0050
	330	20	E	8	33	60	478-4141-1-ND	14.00	12.18	10.64	478-4141-2-ND	400	2038.40	TPSE337M010R0060
	330	20	E	8	33	100	478-4142-1-ND	12.75	11.10	9.69	478-4142-2-ND	400	1856.40	TPSE337M010R0100
	330	10	V	10	33	60	478-4158-1-ND	15.25	13.27	11.59	478-4158-2-ND	400	2220.40	TPSV337K010R0060
	330	20	V	10	33	60	478-4159-1-ND	14.75	12.84	11.21	—	—	—	TPSV337M010R0060
	330	20	V	10	33	100	478-4160-1-ND	13.95	12.14	10.61	478-4160-2-ND	400	2031.20	TPSV337M010R0100
	470	10	E	10	47	45	478-3088-1-ND	14.85	12.92	11.29	478-3088-2-ND	400	2162.00	TPSE477K010R0045
	470	10	E	10	47	100	478-1807-1-ND	14.90	12.97	11.33	478-1807-2-ND	400	2169.60	TPSE477K010R0100
	470	20	E	10	47	45	478-4148-1-ND	16.25	14.14	12.35	478-4148-2-ND	400	2366.00	TPSE477M010R0045
	470	20	E	10	47	50	478-4149-1-ND	15.75	13.71	11.97	478-4149-2-ND	400	2293.20	TPSE477M010R0050
	470	20	E	10	47	100	478-4150-1-ND	14.75	12.84	11.21	478-4150-2-ND	400	2147.60	TPSE477M010R0100
	470	10	V	10	47	60	478-4162-1-ND	15.40	13.40	11.71	478-4162-2-ND	400	2242.40	TPSV477K010R0060
16	2.2	10	A	6	0.5	1800	478-2394-1-ND	1.00	.87	.76	478-2394-2-ND	2,000	340.00/M	TPSA225K016R1800
	3.3	10	A	6	0.5	3500	478-2395-1-ND	1.00	.87	.76	478-2395-2-ND	2,000	340.00/M	TPSA335K016R3500
	4.7	10	B	6	0.8	1500	478-2396-1-ND	1.25	1.09	.95	478-2396-2-ND	2,000	425.00/M	TPSB475K016R1500
	6.8	10	A	6	1.1	1500	478-3089-1-ND	.90	.79	.69	478-3089-2-ND	2,000	306.00/M	TPSA685K016R1500
	6.8	10	B	6	1.1	1200	478-2397-1-ND	1.25	1.09	.95	478-2397-2-ND	2,000	425.00/M	TPSB685K016R1200
	10	10	B	6	1.6	800	478-2398-1-ND†	1.25	1.09	.95	478-2398-2-ND	2,000	425.00/M	TPSB106K016R0800
	15	10	B	6	2.4	800	478-1757-1-ND	1.00	.87	.76	478-1757-2-ND	2,000	340.00/M	TPSB156K016R0800
	22	10	B	6	3.5	600	478-1758-1-ND	1.00	.87	.76	478-1758-2-ND	2,000	340.00/M	TPSB226K016R0600
	22	10	C	6	3.5	375	478-1767-1-ND†	.88	.77	.67	478-1767-2-ND	500	159.50	TPSC226K016R0375
	22	20	C	6	3.5	375	478-4092-1-ND	2.00	1.74	1.52	478-4092-2-ND	500	364.00	TPSC226M016R0375
	33	10	B	8	5.3	350	478-3090-1-ND	1.13	.98	.86	478-3090-2-ND	2,000	383.00/M	TPSB336K016R0350
	33	10	C	6	5.3	300	478-1771-1-ND	1.75	1.53	1.33	478-1771-2-ND	500	318.50	TPSC336K016R0300
	33	10	W	6	5.3	175	478-3324-1-ND	4.00	3.48	3.04	478-3324-2-ND	1,000	1456.00	TPSW336K016R0175
	47	10	C	6	7.5	350	478-1773-1-ND†	2.55	2.22	1.94	478-1773-2-ND	500	464.00	TPSC476K016R0350
	47	10	D	6	7.5	80	478-3325-1-ND	4.00	3.48	3.04	478-3325-2-ND	500	728.00	TPSD476K016R0080
	47	10	D	6	7.5	150	478-1788-1-ND	3.90	3.40	2.97	478-1788-2-ND	500	710.00	TPSD476K016R0150
	47	10	D	6	7.5	200	478-4118-1-ND	3.80	3.31	2.89	478-4118-2-ND	500	691.50	TPSD476K016R0200
	47	20	D	6	7.5	150	478-4119-1-ND	3.70	3.22	2.82	478-4119-2-ND	500	673.50	TPSD476M016R0150
	68	10	C	6	10.9	125	478-3091-1-ND	2.66	2.31	2.02	478-3091-2-ND	500	483.00	TPSC686K016R0125
	68	10	C	6	10.9	200	478-1774-1-ND	1.44	1.25	1.10	478-1774-2-ND	500	261.00	TPSC686K016R0200
	100	10	D	6	16	125	478-1778-1-ND	4.20	3.66	3.20	478-1778-2-ND	500	764.50	TPSD107K016R0125
	100	10	D	6	16	150	478-3358-1-ND	4.20	3.66	3.20	478-3358-2-ND	500	764.50	TPSD107K016R0150
	100	20	D	6	16	60	478-4098-1-ND	4.75	4.14	3.61	478-4098-2-ND	500	864.50	TPSD107M016R0060
	100	20	D	6	16	125	478-4099-1-ND	4.00	3.48	3.04	478-4099-2-ND	500	728.00	TPSD107M016R0125
	100	10	E	6	16	55	478-4124-1-ND	13.75	11.97	10.45	478-4124-2-ND	400	2002.00	TPSE107K016R0055
	100	10	E	6	16	100	478-1793-1-ND	9.25	8.05	7.03	478-1793-2-ND	400	1346.80	TPSE107K016R0100
	100	10	E	6	16	125	478-1794-1-ND	8.50	7.40	6.46	478-1794-2-ND	400	1237.60	TPSE107K016R0125
	100	20	E	6	16	55	478-4125-1-ND	13.35	11.62	10.15	478-4125-2-ND	400	1943.60	TPSE107M016R0055
	100	20	E	6	16	100	478-4126-1-ND	9.75	8.49	7.41	478-4126-2-ND	400	1419.60	TPSE107M016R0100
	150	10	D	6	24	60	478-3092-1-ND	9.68	8.42	7.36	478-3092-2-ND	500	1761.00	TPSD157K016R0060
	150	10	D	6	24	100	478-3326-1-ND†	10.25	8.92	7.79	478-3326-2-ND	500	1865.50	TPSD157K016R0100
	150	10	D	6	24	150	478-1782-1-ND	5.00	4.35	3.80	478-1782-2-ND	500	910.00	TPSD157K016R0150
	150	20	D	6	24	150	478-4104-1-ND	9.25	8.05	7.03	—	—	—	TPSD157M016R0150
	220	10	E	10	35.2	100	478-3093-1-ND	9.45	8.23	7.19	478-3093-2-ND	400	1376.00	TPSE227K016R0100
	220	10	E	10	35.2	150	478-1800-1-ND	10.00	8.70	7.60	478-1800-2-ND	400	1456.00	TPSE227K016R0150
	220	20	E	10	35.2	100	478-4131-1-ND	10.40	9.05	7.91	478-4131-2-ND	400	1514.40	TPSE227M016R0100
	220	10	V	8	35.2	50	478-3327-1-ND	16.10	14.01	12.24	478-3327-2-ND	400	2344.00	TPSV227K016R0050
	220	10	V	8	35.2	75	478-3328-1-ND†	15.75	13.71	11.97	478-3328-2-ND	400	2293.20	TPSV227K016R0075
	220	20	V	8	35.2	75	478-4157-1-ND	15.25	13.27	11.59	478-4157-2-ND	400	2220.40	TPSV227M016R0075
20	1	10	A	4	0.5	3000	478-2399-1-ND	1.00	.87	.76	478-2399-2-ND	2,000	340.00/M	TPSA105K020R3000
	2.2	10	A	6	0.5	3000	478-2400-1-ND	1.00	.87	.76	478-2400-2-ND	2,000	340.00/M	TPSA225K020R3000
	3.3	10	A	6	0.7	2500	478-2401-1-ND	1.00	.87	.76	478-2401-2-ND	2,000	340.00/M	TPSA335K020R2500
	4.7	10	B	6	0.9	1000	478-2402-1-ND	1.25	1.09	.95	478-2402-2-ND	2,000	425.00/M	TPSB475K020R1000
	6.8	10	A	6	1.4	1000	478-3094-1-ND	.90	.79	.69	478-3094-2-ND	2,000	306.00/M	TPSA685K020R1000
	6.8	10	B	6	1.4	1000	478-2403-1-ND	1.25	1.09	.95	478-2403-2-ND	2,000	425.00/M	TPSB685K020R1000
	10	10	B	6	2	1000	478-1756-1-ND	1.25	1.09	.95	478-1756-2-ND	2,000	425.00/M	TPSB106K020R1000
	10	20	B	6	2	1000	478-4087-1-ND	1.20	1.05	.92	478-4087-2-ND	2,000	408.00/M	TPSB106M020R1000
	15	10	C	6	3	450	478-1766-1-ND	2.10	1.83	1.60	478-1766-2-ND	500	382.00	TPSC156K020R0450
	22	10	B	6	4.4	400	478-3095-1-ND	1.13	.98	.86	478-3095-2-ND	2,000	383.00/M	TPSB226K020R0400
	22	10	C	6	4.4	150	478-2404-1-ND	2.60	2.27	1.98	478-2404-2-ND	500	442.00	TPSC226K020R0150
	33	10	C	6	6.6	300	478-3096-1-ND	2.05	1.79	1.56	478-3096-2-ND	500	372.50	TPSC336K020R0300
	33	10	D	6	6.6	200	478-1785-1-ND	3.90	3.40	2.97	478-1785-2-ND	500	710.00	TPSD336K020R0200
	33	20	D	6	6.6	200	478-4111-1-ND	3.70	3.22	2.82	478-4111-2-ND	500	673.50	TPSD336M020R0200
	47	10	D	6	9.4	100	478-3329-1-ND	3.75	3.27	2.85	478-3329-2-ND	500	682.50	TPSD476K020R0100
	47	10	E	6	9.4	125	478-1805-1-ND	7.75	6.75	5.89	478-1805-2-ND	400	1128.40	TPSE476K020R0125
	47	10	E	6	9.4	150	478-1806-1-ND	5.45	4.74	4.14	478-1806-2-ND	400	792.80	TPSE476K020R0150
	68	10	D	6	13.6	70	478-4122-1-ND	5.50	4.79	4.18	478-4122-2-ND	500	1001.00	TPSD686K020R0070
	68	10	D	6	13.6	300	478-1792-1-ND	3.65	3.18	2.78	478-1792-2-ND	500	664.50	TPSD686K020R0300
	68	10	E	6	13.6	150	478-1808-1-ND	9.00	7.83	6.84	478-1808-2-ND	400	1310.40	TPSE686K020R0150
	68	20	E	6	13.6	150	478-4151-1-ND	9.75	8.49	7.41	478-4151-2-ND	400	1419.60	TPSE686M020R0150
	100	10	D	6	20	85	478-3097-1-ND	3.83	3.33	2.91	478-3097-2-ND	500	696.00	TPSD107K020R0085
	100	10	E	6	20	100	478-3098-1-ND	13.73	11.95	10.44	478-3098-2-ND	400	1998.40	TPSE107K020R0100
	100	10	E	6	20	150	478-1795-1-ND†	5.75	5.01	4.37	478-1795-2-ND	400	837.20	TPSE107K020R0150
	100	20	E	6	20	150	478-4127-1-ND	14.75	12.84	11.21	478-4127-2-ND	400	2147.60	TPSE107M020R0150
	100	10	V	8	20	60	478-3330-1-ND†	17.00	14.79	12.92	478-3330-2-ND	400	2475.20	TPSV107K020R0060
	100	10	V	8	20	85	478-4154-1-ND	16.75	14.58	12.73	478-4154-2-ND	400	2438.80	TPSV107K020R0085
	100	20	V	8	20	60	478-4155-1-ND	16.50	14.36	12.54	478-4155-2-ND	400	2402.40	TPSV107M020R0060
	100	20	V	8	20	85	478-4156-1-ND	16.25	14.14	12.35	478-4156-2-ND	400	2366.00	TPSV107M020R0085
	150	10	V	8	30	80	478-3099-1-ND	14.27	12.42	10.85	478-3099-2-ND	400	2076.80	TPSV157 K020R0080
25	.68	10	A	4	0.5	6000	478-2405-1-ND	1.00	.87	.76	478-2405-2-ND	2,000	340.00/M	TPSA684K025R6000
	1.5	10	A	6	0.5	3000	478-2406-1-ND	1.00	.87	.76	478-2406-2-ND	2,000	340.00/M	TPSA155K025R3000
	3.3	10	A	6	0.8	1000	478-3100-1-ND	.90	.79	.69	478-3100-2-ND	2,000	306.00/M	TPSA335K025R1000
	3.3	10	B	6	0.8	2000	478-2407-1-ND	1.25	1.09	.95	478-2407-2-ND	2,000	425.00/M	TPSB335K025R2000
	4.7	10	B	6	1.2	900	478-2408-1-ND	1.25	1.09	.95	478-2408-2-ND	2,000	425.00/M	TPSB475K025R0900
	6.8	10	B	6	1.7	700	478-3101-1-ND	1.13	.98	.86	478-3101-2-ND	2,000	383.00/M	TPSB685K025R0700
	6.8	10	C	6	1.7	600	478-2409-1-ND	1.60	1.40	1.22	478-2409-2-ND	500	272.00	TPSC685K025R0600
	10	10	C	6	2.5	300	478-3360-1-ND	2.60	2.27	1.98	478-3360-2-ND	500	473.00	TPSC106K025R0300
	10	10	C	6	2.5	500	478-1762-1-ND†	.88	.77	.67	478-1762-2-ND	500	159.50	TPSC106K025R0500
	10	20	C	6	2.5	500	478-1763-1-ND	.88	.77	.67	478-1763-2-ND	500	159.50	TPSC106M025R0500
	22	10	C	6	5.5	275	478-3102-1-ND	2.16	1.88	1.65	478-3102-2-ND	500	393.00	TPSC226K025R0275
	22	10	D	6	5.5	100	478-3331-1-ND†	4.20	3.66	3.20	478-3331-2-ND	500	764.50	TPSD226K025R0100
	22	10	D	6	5.5	200	478-1783-1-ND	3.90	3.40	2.97	478-1783-2-ND	500	710.00	TPSD226K025R0200

(Continued)

AVX TPS Series Low ESR Surface Mount Tantalum Capacitors *(Cont.)*

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AVX Part No.
25	22	20	D	6	5.5	200	478-4106-1-ND	3.70	3.22	2.82	478-4106-2-ND	500	673.50	TPSD226M025R0200
	33	10	D	6	8.3	100	478-3332-1-ND	4.35	3.79	3.31	478-3332-2-ND	500	791.50	TPSD336K025R0100
	33	10	D	6	8.3	200	478-3359-1-ND	4.05	3.53	3.08	478-3359-2-ND	500	737.00	TPSD336K025R0200
	33	10	D	6	8.3	300	478-1786-1-ND	3.60	3.14	2.74	478-1786-2-ND	500	655.00	TPSD336K025R0300
	33	20	D	6	8.3	200	478-3062-1-ND	3.95	3.44	3.01	478-3062-2-ND	500	719.00	TPSD336M025R0200
	33	10	E	6	8.3	175	478-4132-1-ND	5.50	4.79	4.18	478-4132-2-ND	400	800.80	TPSE336K025R0175
	33	10	E	6	8.3	300	478-1801-1-ND	6.75	5.88	5.13	478-1801-2-ND	400	982.80	TPSE336K025R0300
	33	20	E	6	8.3	175	478-1802-1-ND	7.00	6.09	5.32	—	—	—	TPSE336M025R0175
	33	20	E	6	8.3	200	478-1803-1-ND	6.80	5.92	5.17	478-1803-2-ND	400	990.00	TPSE336M025R0200
	33	20	E	6	8.3	300	478-4134-1-ND	9.75	8.49	7.41	478-4134-2-ND	400	1419.60	TPSE336M025R0300
	47	10	D	6	11.8	125	478-3103-1-ND	6.26	5.45	4.76	478-3103-2-ND	500	1138.50	TPSD476K025R0125
	47	10	D	6	11.8	150	478-1789-1-ND	6.75	5.88	5.13	478-1789-2-ND	500	1228.50	TPSD476K025R0150
	47	10	D	6	11.8	250	478-3333-1-ND†	4.05	3.53	3.08	478-3333-2-ND	500	737.00	TPSD476K025R0250
	47	20	D	6	11.8	250	478-4120-1-ND	3.95	3.44	3.01	478-4120-2-ND	500	719.00	TPSD476M025R0250
	47	10	E	6	8.3	100	478-4143-1-ND	12.10	10.53	9.20	478-4143-2-ND	400	1761.60	TPSE476K025R0100
	47	20	E	6	8.3	100	478-4144-1-ND	12.00	10.44	9.12	478-4144-2-ND	400	1747.20	TPSE476M025R0100
	68	10	E	6	17	125	478-2410-1-ND	10.25	8.92	7.79	478-2410-2-ND	400	1492.40	TPSE686K025R0125
	68	10	E	6	17	200	478-3334-1-ND†	8.50	7.40	6.46	478-3334-2-ND	400	1237.60	TPSE686K025R0200
	68	20	E	6	17	125	478-4152-1-ND	10.03	8.73	7.63	478-4152-2-ND	400	1460.40	TPSE686M025R0125
	68	10	V	6	17	95	478-3335-1-ND†	16.75	14.58	12.73	478-3335-2-ND	400	2438.80	TPSV686K025R0095
	68	20	V	6	17	95	478-4163-1-ND	16.25	14.14	12.35	478-4163-2-ND	400	2366.00	TPSV686M025R0095
	68	20	V	6	17	150	478-4164-1-ND	15.25	13.27	11.59	478-4164-2-ND	400	2220.40	TPSV686M025R0150
	100	10	V	8	25	100	478-3104-1-ND	15.08	13.12	11.46	478-3104-2-ND	400	2194.80	TPSV107K025R0100
35	.68	10	A	4	0.5	6000	478-2411-1-ND	1.00	.87	.76	—	—	—	TPSA684K035R6000
	1	10	A	4	0.5	3000	478-3336-1-ND†	1.00	.87	.76	478-3336-2-ND	2,000	340.00/M	TPSA105K035R3000
	1	10	B	4	0.5	2000	478-2412-1-ND	1.25	1.09	.95	478-2412-2-ND	2,000	425.00/M	TPSB105K035R2000
	1.5	10	B	6	0.5	2500	478-2413-1-ND	1.25	1.09	.95	478-2413-2-ND	2,000	425.00/M	TPSB155K035R2500
	2.2	10	A	6	0.8	1500	478-3105-1-ND	.90	.79	.69	478-3105-2-ND	2,000	306.00/M	TPSA225K035R1500
	2.2	10	B	6	0.8	2000	478-2414-1-ND	1.25	1.09	.95	478-2414-2-ND	2,000	425.00/M	TPSB225K035R2000
	3.3	10	C	6	1.2	700	478-1769-1-ND	1.95	1.70	1.49	478-1769-2-ND	500	355.00	TPSC335K035R0700
	4.7	10	B	6	1.2	700	478-3106-1-ND	1.13	.98	.86	478-3106-2-ND	2,000	383.00/M	TPSB475K035R0700
	4.7	10	C	6	1.6	600	478-1772-1-ND	1.95	1.70	1.49	478-1772-2-ND	500	355.00	TPSC475K035R0600
	4.7	10	D	6	1.6	700	478-4754-1-ND ***NEW!***	6.15	5.36	4.68	478-4754-2-ND ***NEW!***	500	1119.50	TPSD475K035R0700
	6.8	10	D	6	2.4	400	478-2415-1-ND	4.05	3.53	3.08	478-2415-2-ND	500	737.00	TPSD685K035R0400
	10	10	D	6	3.5	125	478-3337-1-ND	4.00	3.48	3.04	478-3337-2-ND	500	728.00	TPSD106K035R0125
	10	10	D	6	3.5	300	478-1775-1-ND	1.43	1.24	1.09	478-1775-2-ND	500	259.50	TPSD106K035R0300
	10	20	D	6	3.5	300	478-4094-1-ND	3.00	2.61	2.28	478-4094-2-ND	500	546.00	TPSD106M035R0300
	10	10	Y	6	3.5	250	478-4697-1-ND ***NEW!***	6.25	5.44	4.75	478-4697-2-ND ***NEW!***	1,000	2275.00	TPSY106K035R0250
	15	10	C	6	5.3	350	478-3107-1-ND	1.98	1.73	1.51	478-3107-2-ND	500	360.50	TPSC156K035R0350
	15	10	D	6	5.3	100	478-4100-1-ND	4.95	4.31	3.77	478-4100-2-ND	500	901.00	TPSD156K035R0100
	15	10	D	6	5.3	300	478-1780-1-ND	3.00	2.61	2.28	478-1780-2-ND	500	546.00	TPSD156K035R0300
	15	20	D	6	5.3	300	478-4101-1-ND	3.70	3.22	2.82	478-4101-2-ND	500	673.50	TPSD156M035R0300
	22	10	D	6	7.7	125	478-1796-1-ND†	9.75	8.49	7.41	478-1796-2-ND	400	1419.60	TPSE226K035R0125
	22	10	D	6	7.7	125	478-4105-1-ND	11.25	9.79	8.55	478-4105-2-ND	500	2047.50	TPSD226K035R0125
	22	10	D	6	7.7	200	478-3356-1-ND	10.00	8.70	7.60	478-3356-2-ND	500	1820.00	TPSD226K035R0200
	22	20	D	6	7.7	300	478-3060-1-ND	9.25	8.05	7.03	478-3060-2-ND	500	1683.50	TPSD226M035R0300
	22	20	D	6	7.7	400	478-4107-1-ND	6.00	5.22	4.56	478-4107-2-ND	500	1092.00	TPSD226M035R0400
	22	10	E	6	7.7	200	478-1797-1-ND	9.25	8.05	7.03	478-1797-2-ND	400	1346.80	TPSE226K035R0200
	22	10	E	6	7.7	300	478-1798-1-ND	8.75	7.62	6.65	478-1798-2-ND	400	1274.00	TPSE226K035R0300
	22	20	E	6	7.7	200	478-4128-1-ND	9.75	8.49	7.41	478-4128-2-ND	400	1419.60	TPSE226M035R0200
	22	20	E	6	7.7	300	478-4129-1-ND	9.75	8.49	7.41	478-4129-2-ND	400	1419.60	TPSE226M035R0300
	33	10	D	6	11.6	200	478-3108-1-ND	9.00	7.83	6.84	478-3108-2-ND	500	1638.00	TPSD336K035R0200
	33	10	D	6	11.6	300	478-2416-1-ND†	9.25	8.05	7.03	478-2416-2-ND	500	1683.50	TPSD336K035R0300
	33	20	D	6	11.6	300	478-4113-1-ND	9.25	8.05	7.03	478-4113-2-ND	500	1683.50	TPSD336M035R0300
	33	10	E	6	11.6	1005	478-3338-1-ND	11.00	9.57	8.36	478-3338-2-ND	400	1601.60	TPSE336K035R0100
	47	10	E	6	16.5	200	478-3109-1-ND†	10.71	9.32	8.14	478-3109-2-ND	400	1559.20	TPSE476K035R0200
	47	10	E	6	16.5	250	478-2417-1-ND	11.65	10.14	8.86	478-2417-2-ND	400	1696.40	TPSE476K035R0250
	47	20	E	6	16.5	200	478-4145-1-ND	11.82	10.29	8.99	478-4145-2-ND	400	1720.80	TPSE476M035R0200
	68	20	V	6	23.8	150	478-3110-1-ND	16.20	14.10	12.32	478-3110-2-ND	400	2358.80	TPSV686M035R0150
50	.15	10	A	4	0.5	9000	478-2418-1-ND	1.00	.87	.76	478-2418-2-ND	2,000	340.00/M	TPSA154K050R9000
	.22	10	A	4	0.5	7000	478-2419-1-ND	1.00	.87	.76	478-2419-2-ND	2,000	340.00/M	TPSA224K050R7000
	2.2	10	D	6	1.1	1200	478-2420-1-ND	7.00	6.09	5.32	478-2420-2-ND	500	1274.00	TPSD225K050R1200
	3.3	10	D	6	1.7	800	478-2421-1-ND	7.25	6.31	5.51	478-2421-2-ND	500	1319.50	TPSD335K050R0800
	4.7	10	D	6	2.4	300	478-3339-1-ND	8.45	7.36	6.43	478-3339-2-ND	500	1538.00	TPSD475K050R0300
	4.7	10	D	6	2.4	500	478-2422-1-ND	7.25	6.31	5.51	478-2422-2-ND	500	1319.50	TPSD475K050R0500
	6.8	10	D	6	3.4	300	478-3111-1-ND	6.08	5.29	4.62	478-3111-2-ND	500	1105.50	TPSD685K050R0300
	6.8	10	D	6	3.4	500	478-2423-1-ND	4.50	3.92	3.42	478-2423-2-ND	500	819.00	TPSD685K050R0500
	6.8	10	D	6	3.4	600	478-4121-1-ND	4.25	3.70	3.23	478-4121-2-ND	500	773.50	TPSD685K050R0600
	10	10	E	6	5	400	478-3361-1-ND	7.50	6.53	5.70	478-3361-2-ND	400	1092.00	TPSE106K050R0400
	10	10	E	6	5	500	478-2424-1-ND	17.70	15.40	13.46	478-2424-2-ND	400	2577.20	TPSE106K050R0500
	15	10	E	6	5	250	478-3112-1-ND	16.88	14.69	12.83	478-3112-2-ND	400	2457.20	TPSE156K050R0250

† **478-3444-ND** ***TPS Series Capacitors Kit*** 5 each of values denoted. Packaged in convenient mini-style notebook.. **$46.25**

NEW! TAW Series Fused Tantalum Capacitors

The TAW fused tantalum capacitors offer protection from possible damaging short circuit failure modes. This is accomplished with an internal fuse using thin film technology that is in series with the capacitor. The AVX fused tantalum offers lower ESR limits than competitive fused tantalum capacitors. **Specifications**: • Operating Temperature Range: -55°C ~ 125°C • Fuse Continuous Current Capability: 0.75A

Case Size	EIA Code	Dimensions - mm L ±0.20	W +0.20/-0.10	H ±0.20/-0.10	W_1 ±0.20	A +0.30/-0.20	S (Min.)
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40

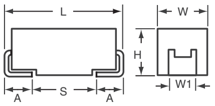

Rated Voltage (V)	Capacitance (µF)	Cap. Tol. %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (mΩ) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	AVX Part No.
10	47	10	D	6	4.7	500	478-4743-1-ND	3.45	3.01	2.63	478-4743-2-ND	628.00	TAWD476K010R0500
	47	20	D	6	4.7	500	478-4744-1-ND	3.15	2.75	2.40	478-4744-2-ND	573.50	TAWD476M010R0500
	100	10	D	8	10	500	478-4747-1-ND	3.45	3.01	2.63	478-4747-2-ND	628.00	TAWD107K010R0500
	100	20	D	8	10	500	478-4748-1-ND	3.15	2.75	2.40	478-4748-2-ND	573.50	TAWD107M010R0500
16	33	10	D	6	5.3	600	478-4745-1-ND	3.45	3.01	2.63	478-4745-2-ND	628.00	TAWD336K016R0600
	33	20	D	6	5.3	600	478-4746-1-ND	3.15	2.75	2.40	478-4746-2-ND	573.50	TAWD336M016R0600
25	10	10	D	6	2.5	600	478-4749-1-ND	3.70	3.22	2.82	478-4749-2-ND	673.50	TAWD106K025R0600
	10	20	D	6	2.5	600	478-4750-1-ND	3.35	2.92	2.55	478-4750-2-ND	609.50	TAWD106M025R0600
50	6.8	10	D	6	3.4	700	478-4751-1-ND	5.60	4.88	4.26	478-4751-2-ND	1019.00	TAWD685K050R0700
	6.8	20	D	6	3.4	700	478-4752-1-ND	5.10	4.44	3.88	478-4752-2-ND	928.00	TAWD685M050R0700

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

AVX TLC and TLJ Series Tantalum Solid Electrolytic Capacitors

The consumer TLJ and TLC Series of tantalum capacitors offer a high capacitance vs. voltage ratio based on stable MnO_2 electrode capacitors.

They are suitable for a wide range of consumer electronic applications such as the latest portable handheld electronics, cellular phones, PDAs or other digital equipment and cameras.

- **Temperature Range:** -55°C ~ 125°C
- **Capacitance Tolerance:** ±20%

TLC Series

Case Size	EIA Code	Dimensions - mm L	W	H	S (Min.)	Lt. (Min.)
J	0603	1.60	0.85	0.75 Max.	0.55	0.15
K	0402	1.00	0.50	0.50	0.40	0.10
L	0603	1.60	0.85	0.85	0.55	0.15
R	0805	2.00	1.35	1.35	0.70	0.15
U	0805	2.00	1.35	0.60 Max.	0.70	0.15

TLJ Series

Case Size	EIA Code	Dimensions - mm L	W	H	W_1	S (Min.)	A
A	3216-18	3.20	1.60	1.60	1.20	1.10	0.80
B	3528-21	3.50	2.80	1.90	2.20	1.40	0.80
K	3216-10	3.20	1.60	1.0	1.20	1.10	0.80
N	2012-12	2.05	1.30	1.0	1.0	0.85	0.50
R	2012-12	2.05	1.30	1.20 Max.	1.0	0.85	0.50
T	3528-12	3.50	2.80	1.20 Max.	2.20	1.40	0.80
W	6032-15	6.00	3.20	1.50 Max.	2.20	2.90	1.30

Fig. 1 — TLC Series

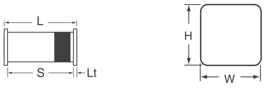

Fig. 2 — TLJ Series

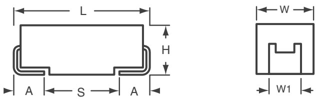

Rated Voltage (V)	Capaci-tance (µF)	Case Size	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
Fig. 1 — TLC Series												
3	22	J	0.7	7500	478-4756-1-ND ***NEW!***	8.00	6.96	6.08	478-4756-2-ND ***NEW!***	3,500	2720.00/M	TLCJ226M003RTA
4	4.7	K	.5	15000	478-3340-1-ND§	6.65	5.79	5.06	478-3340-2-ND	1,000	2421.00	TLCK475M004QTA
	47	L	1.9	7500	478-4705-1-ND ***NEW!***	5.50	4.79	4.18	478-4705-2-ND ***NEW!***	3,500	2002.00/M	TLCL476M004RTA
	100	R	4.0	5000	478-3341-1-ND§	3.83	3.33	2.91	478-3341-2-ND	500	696.00	TLCR107M004XTA
6.3	22	L	1.4	7500	478-3343-1-ND§	2.93	2.55	2.23	478-3343-2-ND	500	532.50	TLCL226M006XTA
6.3	33	L	2.1	7500	478-4877-1-ND ***NEW!***	2.93	2.55	2.23	478-4877-2-ND ***NEW!***	3,500	995.00/M	TLCL336M006RTA
10	10	U	1.0	5000	478-4876-1-ND ***NEW!***	3.83	3.33	2.91	478-4876-2-ND ***NEW!***	3,500	1301.00/M	TLCU106M010RTA
10	47	R	4.7	5000	478-3347-1-ND§	3.83	3.33	2.91	478-3347-2-ND	500	696.00	TLCR476M010XTA
Fig. 2 — TLJ Series												
4	33	N	1.3	8000	478-4769-1-ND ***NEW!***	3.00	2.61	2.28	478-4769-2-ND ***NEW!***	3,000	1092.00/M	TLJN336M004R8000
	47	R	1.9	3000	478-3441-1-ND§	3.00	2.61	2.28	478-3441-2-ND	2,500	1020.00/M	TLJR476M004R3000
	100	A	4.0	500	478-3342-1-ND§	2.10	1.83	1.60	478-3342-2-ND	2,000	714.00/M	TLJA107M004R0500
	220	T	8.8	1100	478-4319-1-ND	1.58	1.37	1.20	478-4319-2-ND	2,500	536.00/M	TLJT227M004R1100
6.3	22	N	1.3	5400	478-4768-1-ND ***NEW!***	3.00	2.61	2.28	478-4768-2-ND ***NEW!***	3,000	1092.00/M	TLJN226M006R5400
	33	N	2.0	8000	478-4767-1-ND ***NEW!***	3.00	2.61	2.28	478-4767-2-ND ***NEW!***	3,000	1092.00/M	TLJN336M006R8000
	33	R	2.0	3000	478-3344-1-ND§	3.00	2.61	2.28	478-3344-2-ND	2,500	1020.00/M	TLJR336M006R3000
	47	R	2.8	3200	478-4696-1-ND ***NEW!***	3.00	2.61	2.28	478-4696-2-ND ***NEW!***	2,500	1020.00/M	TLJR476M006R3200
	100	A	6.0	500	478-3345-1-ND§	3.10	2.70	2.36	478-3345-2-ND	2,000	1054.00/M	TLJA107M006R0500
10	10	R	1.0	3000	478-3346-1-ND§	2.75	2.40	2.09	478-3346-2-ND	2,500	935.00/M	TLJR106M010R3000
	22	N	2.2	3800	478-4694-1-ND ***NEW!***	3.00	2.61	2.28	478-4694-2-ND ***NEW!***	3,000	1020.00/M	TLJN226M010R3800
	22	R	2.2	3800	478-4695-1-ND ***NEW!***	3.00	2.61	2.28	478-4695-2-ND ***NEW!***	2,500	1020.00/M	TLJR226M010R3800
	33	K	3.3	1500	478-4770-1-ND ***NEW!***	3.25	2.83	2.47	478-4770-2-ND ***NEW!***	3,000	1183.00/M	TLJK336M010R1500
	47	T	4.7	600	478-3348-1-ND§	3.25	2.83	2.47	478-3348-2-ND	2,500	1105.00/M	TLJT476M010R0600
	150	B	15	500	478-3349-1-ND§	3.25	2.83	2.47	478-3349-2-ND	2,000	1105.00/M	TLJB157M010R0500
	150	W	15	150	478-4708-1-ND ***NEW!***	4.25	3.70	3.23	478-4708-2-ND ***NEW!***	1,000	1547.00	TLJW157M010R0150
	150	W	15	200	478-3350-1-ND§	4.25	3.70	3.23	478-3350-2-ND	1,000	1547.00	TLJW157M010R0200

§ 478-3449-ND ***TLJ/TLC Series Capacitors Kit*** 5 each of values denoted. Packaged in a convenient mini-style notebook **$46.25**

TCJ Series Conductive Polymer Tantalum Capacitors

The TCJ Series of tantalum capacitors with a conductive polymer electrode offers lower ESR, safer non-ignition failure mode and better capacitance retention compared to the conventional Mn02 electrode capacitors.

The TCJ series is suitable for power management systems with operating temperatures up to 125°C and is also ready for lead free-assembly systems up to 3x reflow with 260°C peak temperature.

- **Temperature Range:** -55°C ~ 125°C
- **Capacitance Tolerance:** ±20%

Case Size	EIA Code	Dimensions - mm L	W	H	W_1	A	S (Min.)
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.80
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
H	3528-12	3.50	2.80	1.50	2.20	0.80	1.40
R	2012-12	2.05	1.30	1.20	1.0	0.50	0.85
T	3528-12	3.50	2.80	1.20	2.20	0.80	1.40
W	6032-15	6.00	3.20	1.50	2.20	1.30	2.90

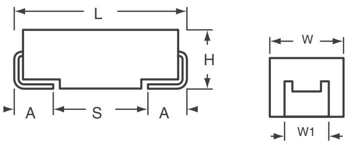

Rated Voltage (V)	Capaci-tance (µF)	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	RMS Current (mA) @100kHz & 25°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
2.5	68	A	6	17.0	250	548	478-3460-1-ND	2.48	2.16	1.89	478-3460-2-ND	2,000	842.00/M	TCJA686M002R0250
	100	A	6	25.0	200	612	478-3452-1-ND	2.48	2.16	1.89	478-3452-2-ND	2,000	842.00/M	TCJA107M002R0200
	100	B	6	25.0	70	1102	478-3462-1-ND	2.48	2.16	1.89	478-3462-2-ND	2,000	842.00/M	TCJB107M002R0070
	150	B	6	37.5	70	1102	478-3464-1-ND	2.48	2.16	1.89	478-3464-2-ND	2,000	842.00/M	TCJB157M002R0070
4	22	A	6	8.8	300	500	478-3135-1-ND†	.95	.83	.72	478-3135-2-ND	2,000	321.00/M	TCJA226M004R0300
	33	A	6	13.2	300	500	478-3455-1-ND	2.48	2.16	1.89	478-3455-2-ND	2,000	842.00/M	TCJA336M004R0300
	47	A	6	18.8	200	612	478-3457-1-ND	2.48	2.16	1.89	478-3457-2-ND	2,000	842.00/M	TCJA476M004R0200
	47	T	8	18.8	80	1000	478-3479-1-ND	2.58	2.24	1.96	478-3479-2-ND	2,500	876.00/M	TCJT476M004R0080
	68	A	6	27.2	250	548	478-3461-1-ND	2.48	2.16	1.89	478-3461-2-ND	2,000	842.00/M	TCJA686M004R0250
	68	B	6	27.2	70	1102	478-3137-1-ND†	1.10	.96	.84	478-3137-2-ND	2,000	321.00/M	TCJB686M004R0070
	68	T	8	27.2	80	1000	478-3480-1-ND	2.58	2.24	1.96	478-3480-2-ND	2,500	876.00/M	TCJT686M004R0080
	100	A	6	40.0	200	612	478-3453-1-ND	2.48	2.16	1.89	478-3453-2-ND	2,000	842.00/M	TCJA107M004R0200
	100	B	8	40.0	70	1102	478-3129-1-ND†	1.10	.96	.84	478-3129-2-ND	2,000	374.00/M	TCJB107M004R0070
	100	T	8	40.0	150	730	478-3474-1-ND	2.58	2.24	1.96	—	—	—	TCJT107M004R0150
	150	B	6	60.0	70	1102	478-3465-1-ND	2.48	2.16	1.89	478-3465-2-ND	2,000	842.00/M	TCJB157M004R0070
6.3	10	A	6	6.0	300	500	478-3134-1-ND†	.94	.82	.72	478-3134-2-ND	2,000	318.00/M	TCJA106M006R0300
	10	R	6	6.0	500	332	478-3471-1-ND	3.00	2.61	2.28	478-3471-2-ND	2,500	1020.00/M	TCJR106M006R0500
	22	A	6	13.2	300	500	478-4710-1-ND ***NEW!***	.98	.85	.75	478-4710-2-ND ***NEW!***	2,000	332.00/M	TCJA226M006R0300
	22	T	6	13.2	150	730	478-3475-1-ND	2.58	2.24	1.96	478-3475-2-ND	2,500	876.00/M	TCJT226M006R0150
	33	A	6	19.8	200	612	478-3456-1-ND	2.48	2.16	1.89	478-3456-2-ND	2,000	842.00/M	TCJA336M006R0200
	33	B	6	19.8	70	1102	478-4712-1-ND ***NEW!***	1.15	1.01	.88	478-4712-2-ND ***NEW!***	2,000	391.00/M	TCJB336M006R0070
	33	B	6	19.8	200	652	478-3467-1-ND	2.48	2.16	1.89	478-3467-2-ND	2,000	842.00/M	TCJB336M006R0200
	33	T	8	19.8	150	730	478-3477-1-ND	2.58	2.24	1.96	478-3477-2-ND	2,500	876.00/M	TCJT336M006R0150
	47	A	6	28.2	200	612	478-3458-1-ND	2.48	2.16	1.89	478-3458-2-ND	2,000	842.00/M	TCJA476M006R0200
	47	B	6	28.2	70	1102	478-3139-1-ND†	1.10	.96	.84	478-3139-2-ND	2,000	374.00/M	TCJB476M006R0070
	47	T	8	28.2	80	1000	478-3133-1-ND†	1.32	1.15	1.00	478-3133-2-ND	2,500	447.00/M	TCJT476M006R0080
	68	B	8	40.8	55	1102	478-4714-1-ND ***NEW!***	1.65	1.44	1.26	478-4714-2-ND ***NEW!***	2,000	561.00/M	TCJB686M006R0055
	68	B	8	40.8	70	1102	478-3131-1-ND†	1.10	.96	.84	478-3131-2-ND	2,000	374.00/M	TCJB686M006R0070
	68	C	6	40.8	100	1049	478-3470-1-ND	2.75	2.40	2.09	478-3470-2-ND	500	500.50	TCJC686M006R0100
	100	B	10	60.0	45	1374	478-4711-1-ND ***NEW!***	1.55	1.35	1.18	478-4711-2-ND ***NEW!***	2,000	527.00/M	TCJB107M006R0045
	100	B	10	60.0	70	1102	478-3130-1-ND†	1.10	.96	.84	478-3130-2-ND	2,000	374.00/M	TCJB107M006R0070
	150	H	6	90.0	200	632	478-4715-1-ND ***NEW!***	1.46	1.27	1.11	478-4715-2-ND ***NEW!***	2,500	496.00/M	TCJH157M006R0200
	150	W	6	90.0	70	1134	478-3481-1-ND	3.00	2.61	2.28	478-3481-2-ND	1,000	1092.00	TCJW157M006R0070

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX TCJ Series Conductive Polymer Tantalum Capacitors *(Cont.)*

Rated Voltage (V)	Capacitance (µF)	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	RMS Current (mA) @100kHz & 25°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
10	4.7	R	6	4.7	500	332	478-3472-1-ND	3.00	2.61	2.28	478-3472-2-ND	2,500	1020.00/M	TCJR475M010R0500
	10	A	6	10.0	300	500	478-3127-1-ND†	.95	.83	.72	478-3127-2-ND	2,000	321.00/M	TCJA106M010R0300
	15	A	6	15.0	200	612	478-3454-1-ND	2.48	2.16	1.89	478-3454-2-ND	2,000	842.00/M	TCJA156M010R0200
	22	B	6	22.0	300	532	478-3136-1-ND†	1.10	.96	.84	478-3136-2-ND	2,000	374.00/M	TCJB226M010R0300
	22	T	6	22.0	150	730	478-3476-1-ND	2.58	2.24	1.96	478-3476-2-ND	2,500	876.00/M	TCJT226M010R0150
	33	B	6	33.0	70	1102	478-4713-1-ND ***NEW!***	1.20	1.05	.92	478-4713-2-ND ***NEW!***	2,000	408.00/M	TCJB336M010R0070
	33	B	6	33.0	200	652	478-3138-1-ND†	1.10	.96	.84	478-3138-2-ND	2,000	374.00/M	TCJB336M010R0200
	33	C	6	33.0	100	1049	478-3468-1-ND	2.75	2.40	2.09	478-3468-2-ND	500	500.50	TCJC336M010R0100
	33	T	6	33.0	50	730	478-3478-1-ND	2.58	2.24	1.96	478-3478-2-ND	2,500	876.00/M	TCJT336M010R0150
	47	B	6	47.0	70	1102	478-3132-1-ND†	1.10	.96	.84	478-3132-2-ND	2,000	374.00/M	TCJB476M010R0070
16	6.8	A	6	10.9	200	612	478-3459-1-ND	2.48	2.16	1.89	—	—	—	TCJA685M016R0200
	10	A	6	16.0	200	612	478-3451-1-ND	2.48	2.16	1.89	478-3451-2-ND	2,000	842.00/M	TCJA106M016R0200
	10	T	6	16.0	150	730	478-3473-1-ND	2.58	2.24	1.96	478-3473-2-ND	2,500	876.00/M	TCJT106M016R0150
	15	B	6	24.0	150	753	478-3463-1-ND	2.48	2.16	1.89	478-3463-2-ND	2,000	842.00/M	TCJB156M016R0150
	22	B	6	35.2	150	753	478-3466-1-ND	2.48	2.16	1.89	478-3466-2-ND	2,000	842.00/M	TCJB226M016R0150

† **478-3447-ND** ***TCJ Series Capacitors Kit*** 5 each of values denoted. Packaged in convenient mini-style notebook........ **$46.25**

TPM Series
Multianode Ultra Low ESR Surface Mount Tantalum Capacitors

Low ESR, high capacitance and high ripple current are the key parameters for processor filtering. Multianode configuration within a standard E case package meets these requirements • **Temperature Range:** -55°C ~ 125°C

Case Size	EIA Code	Dimensions - mm L ±0.20	W +0.20, -0.10	H +0.20, -0.10	W_1 ±0.20	A +0.30, -0.20	S (Min.)
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
V	7361-38	7.30	6.10	3.45 ±0.30	3.10	1.40	1.80

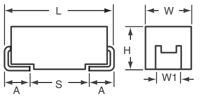

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
2.5	1000	10	D	8	25	25	478-4635-1-ND	8.25	6.19	4.40	478-4635-2-ND	500	1925.00	TPMD108K002R0025
	1500	10	E	6	38	12	478-3292-1-ND†	15.00	13.05	11.40	478-3292-2-ND	400	2184.00	TPME158K002R0012
		10	E	6	38	15	478-3293-1-ND	15.00	13.05	11.40	478-3293-2-ND	400	2184.00	TPME158K002R0015
		10	E	6	38	18	478-3622-1-ND	14.25	12.40	10.83	478-3622-2-ND	400	2074.80	TPME158K002R0018
		20	E	6	38	18	478-3623-1-ND	14.25	12.40	10.83	478-3623-2-ND	400	2074.80	TPME158M002R0018
	2200	10	E	10	44	18	478-4318-1-ND	15.00	13.05	11.40	478-4318-2-ND	400	2184.00	TPME228K002R0018
4	330	10	D	8	13.2	25	478-4639-1-ND	8.25	6.19	4.40	478-4639-2-ND	500	1925.00	TPMD337K004R0025
		10	D	8	13.2	35	478-4640-1-ND	8.25	6.19	4.40	478-4640-2-ND	500	1925.00	TPMD337K004R0035
	470	10	D	8	18.8	25	478-4641-1-ND	8.25	6.19	4.40	478-4641-2-ND	500	1925.00	TPMD477K004R0025
		10	D	8	18.8	35	478-4642-1-ND	8.25	6.19	4.40	478-4642-2-ND	500	1925.00	TPMD477K004R0035
	680	10	D	8	27.2	25	478-4634-1-ND	8.25	6.19	4.40	478-4634-2-ND	500	1925.00	TPMD687K004R0025
		10	E	6	27	18	478-3294-1-ND†	15.00	13.05	11.40	478-3294-2-ND	400	2184.00	TPME687K004R0018
		10	E	6	27	23	478-1815-1-ND	12.25	10.66	9.31	478-1815-2-ND	400	1783.60	TPME687K004R0023
		20	E	6	27	23	478-1816-1-ND	11.25	9.79	8.55	478-1816-2-ND	400	1638.00	TPME687M004R0023
	1000	10	V	6	40	18	478-3295-1-ND†	15.50	13.49	11.78	—	—	—	TPMV108K004R0018
		10	E	6	40	18	478-1819-1-ND†	12.50	10.88	9.50	478-1819-2-ND	400	1820.00	TPME108K004R0018
		20	E	6	40	23	478-3624-1-ND	14.63	12.73	11.12	478-3624-2-ND	400	2129.60	TPME108M004R0023
		20	E	6	40	18	478-1820-1-ND	11.75	10.23	8.93	478-1820-2-ND	400	1710.80	TPME108M004R0018
	1500	10	E	6	40	15	478-3625-1-ND	14.25	12.40	10.83	478-3625-2-ND	400	2074.80	TPME158K004R0015
		10	E	6	40	18	478-3627-1-ND	14.25	12.40	10.83	—	—	—	TPME158K004R0018
		20	E	6	40	15	478-3626-1-ND	14.25	12.40	10.83	478-3626-2-ND	400	2074.80	TPME158M004R0015
6.3	330	10	D	8	19.8	25	478-4637-1-ND	8.25	6.19	4.40	478-4637-2-ND	500	1925.00	TPMD337K006R0025
		10	D	8	19.8	35	478-4638-1-ND	8.25	6.19	4.40	478-4638-2-ND	500	1925.00	TPMD337K006R0035
	470	10	E	6	28	23	478-3296-1-ND†	15.00	13.05	11.40	478-3296-2-ND	400	2184.00	TPME477K006R0023
		10	E	6	28	30	478-1812-1-ND	10.00	8.70	7.60	478-1812-2-ND	400	1456.00	TPME477K006R0030
		10	D	6	28	30	478-4632-1-ND	8.25	6.19	4.40	478-4632-2-ND	500	1925.00	TPMD477K006R0030
		20	E	6	28	30	478-1813-1-ND	9.75	8.49	7.41	478-1813-2-ND	400	1419.60	TPME477M006R0030
	680	10	E	6	41	18	478-3297-1-ND†	15.00	13.05	11.40	478-3297-2-ND	400	2184.00	TPME687K006R0018
		10	V	6	41	23	478-3298-1-ND†	15.50	13.49	11.78	—	—	—	TPMV687K006R0023
		10	E	6	41	23	478-1817-1-ND	12.25	10.66	9.31	478-1817-2-ND	400	1783.60	TPME687K006R0023
		20	E	6	41	23	478-1818-1-ND	11.25	9.79	8.55	478-1818-2-ND	400	1638.00	TPME687M006R0023
10	220	10	D	8	22	35	478-4636-1-ND	8.25	6.19	4.40	478-4636-2-ND	500	1925.00	TPMD227K010R0035
	330	10	D	8	33	35	478-4633-1-ND	8.25	6.19	4.40	478-4633-2-ND	500	1925.00	TPMD337K010R0035
		10	E	6	33	23	478-3628-1-ND	14.25	12.40	10.83	478-3628-2-ND	400	2074.80	TPME337K010R0023
		10	E	6	33	35	478-1810-1-ND†	10.00	8.70	7.60	478-1810-2-ND	400	1456.00	TPME337K010R0035
		20	E	6	33	23	478-3629-1-ND	14.25	12.40	10.83	478-3629-2-ND	400	2074.80	TPME337M010R0023
		20	E	6	33	35	478-1811-1-ND	9.75	8.49	7.41	478-1811-2-ND	400	1419.60	TPME337M010R0035
	470	10	E	6	47	23	478-3299-1-ND†	15.00	13.05	11.40	478-3299-2-ND	400	2184.00	TPME477K010R0023
		10	E	6	47	30	478-3300-1-ND	15.00	13.05	11.40	478-3300-2-ND	400	2184.00	TPME477K010R0030
		20	E	6	47	23	478-3630-1-ND	14.25	12.40	10.83	478-3630-2-ND	400	2074.80	TPME447M010R0023
		20	E	6	47	30	478-1814-1-ND	9.75	8.49	7.41	478-1814-2-ND	400	1419.60	TPME477M010R0030
16	150	10	E	6	24	30	478-3631-1-ND	14.25	12.40	10.83	478-3631-2-ND	400	2074.80	TPME157K016R0030
		10	E	6	24	40	478-3301-1-ND†	15.00	13.05	11.40	478-3301-2-ND	400	2184.00	TPME157K016R0040
		20	E	6	24	30	478-3632-1-ND	14.25	12.40	10.83	478-3632-2-ND	400	2074.80	TPME157M016R0030
		20	E	6	24	40	478-3633-1-ND	14.25	12.40	10.83	478-3633-2-ND	400	2074.80	TPME157M016R0040
	220	10	E	6	35	25	478-3302-1-ND†	15.00	13.05	11.40	478-3302-2-ND	400	2184.00	TPME227K016R0025
		20	E	6	35	25	478-3634-1-ND	14.25	12.40	10.83	478-3634-2-ND	400	2074.80	TPME227M016R0025
		20	E	6	35	40	478-3635-1-ND	14.25	12.40	10.83	478-3635-2-ND	400	2074.80	TPME227M016R0040
		10	E	6	35	40	478-3303-1-ND	15.00	13.05	11.40	478-3303-2-ND	400	2184.00	TPME227K016R0040
20	100	10	E	6	20	35	478-3442-1-ND†	15.00	13.05	11.40	478-3442-2-ND	400	2184.00	TPME107K020R0035
		10	E	6	20	45	478-3637-1-ND	14.25	12.40	10.83	478-3637-2-ND	400	2074.80	TPME107K020R0045
		20	E	6	20	35	478-3636-1-ND	14.25	12.40	10.83	478-3636-2-ND	400	2074.80	TPME107M020R0035
		20	E	6	20	45	478-3638-1-ND	14.25	12.40	10.83	478-3638-2-ND	400	2074.80	TPME107M020R0045
25	68	10	E	6	17	45	478-3639-1-ND	14.25	12.40	10.83	478-3639-2-ND	400	2074.80	TPME686K025R0045
		10	E	6	17	55	478-3304-1-ND†	15.00	13.05	11.40	478-3304-2-ND	400	2184.00	TPME686K025R0055
		20	E	6	17	45	478-3640-1-ND	14.25	12.40	10.83	478-3640-2-ND	400	2074.80	TPME686M025R0045
35	22	10	E	6	8	60	478-3305-1-ND†	17.50	15.23	13.30	478-3305-2-ND	400	2548.00	TPME226K035R0060
		10	E	6	8	100	478-3306-1-ND	17.50	15.23	13.30	478-3306-2-ND	400	2548.00	TPME226K035R0100
	33	10	E	6	12	50	478-3641-1-ND	17.50	15.23	13.30	478-3641-2-ND	400	2548.00	TPME336K035R0050
		10	E	6	12	65	478-3307-1-ND†	17.50	15.23	13.30	478-3307-2-ND	400	2548.00	TPME336K035R0065
		20	E	6	12	50	478-3642-1-ND	17.50	15.23	13.30	478-3642-2-ND	400	2548.00	TPME336M035R0050
	47	10	E	6	16	55	478-3643-1-ND	17.50	15.23	13.30	478-3643-2-ND	400	2548.00	TPME476K035R0055
		10	E	6	16	65	478-3308-1-ND†	17.50	15.23	13.30	478-3308-2-ND	400	2548.00	TPME476K035R0065
		20	E	6	16	65	478-3644-1-ND	17.50	15.23	13.30	478-3644-2-ND	400	2548.00	TPME476M035R0065
50	10	10	E	6	5	120	478-3309-1-ND†	20.00	17.40	15.20	478-3309-2-ND	400	2912.00	TPME106K050R0120

† **478-3448-ND** ***TPM Series Capacitors Kit*** 5 each of values denoted. Packaged in a convenient mini-style notebook........ **$46.25**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX THJ Series High Temperature Tantalum Capacitors

The THJ Series combines high temperature operation and higher basic reliability for optimal performance in high temperature automotive and industry applications. The operational temperature is up to +175°C with derating voltage. The level of reliability of this tantalum product is .5%/1000 hours of rated voltage, rated temperature and .1Ω/volt circuit impedance. The capacitors are produced in black encapsulation with white polarity marking.

Specifications: Maximum Operating Temperature: up to 175°C with 50% derating

Case Size	EIA Metric	Dimensions - mm L ±0.20	W ±0.20/-0.10	H ±0.20/-0.10	W_1 ±0.20 (0.008)	A +0.30	S (Min)
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40

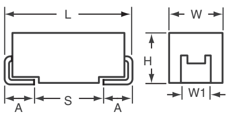

Rated Voltage (V)	Capacitance (µF)	Cap. Tol. %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (Ω) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
16	4.7	10	A	4.5	0.8	2.9	478-3851-1-ND	.58	.50	.44	478-3851-2-ND	2,000	196.00/M	THJA475K016RJN
	47	10	D	6	7.5	0.9	478-3852-1-ND	2.00	1.74	1.52	478-3852-2-ND	500	364.00	THJD476K016RJN
25	2.2	10	B	6	0.6	4.5	478-3853-1-ND	.98	.85	.75	478-3853-2-ND	2,000	332.00/M	THJB225K025RJN
35	1.0	10	B	4	0.5	6.5	478-3854-1-ND	.98	.85	.75	—	—	—	THJB105K035RJN
	10	10	D	6	3.5	1	478-3855-1-ND	2.01	1.75	1.53	478-3855-2-ND	500	366.00	THJD106K035RJN
	22	10	D	6	7.7	0.3	478-4753-1-ND ***NEW!***	12.35	10.75	9.39	478-4753-2-ND ***NEW!***	500	2247.50	THJD226K035R0300

TAC Series Standard Microchip Surface Mount Tantalum Capacitors

The world's smallest surface mount tantalum capacitor, small enough to create space providing room for ideas to grow. TACmicrochip™ is a major breakthrough in miniaturization without reduction in performance.

It offers the highest energy store in a small case down to 0402.

Enhanced high frequency operation through unique ESR performance with temperature and voltage stability also offered.

Case Size	EIA Code	EIA Metric	Dimensions - mm L	W	H	Minimum Termination Spacing (S)	Length (Lt)
A	1206	3216-18	3.20	1.60	1.60	1.80	0.15
H	0805	2012-10	2.00	1.35	1.00	0.70	0.15
K	0402	1005-07	1.00	0.50	0.50	0.40	0.10
L	0603	1608-10	1.60	0.85	0.85	0.55	0.15
R	0805	2012-15	2.00	1.35	1.35	0.70	0.15
T	3528	3528-12	3.50	2.80	1.20	2.00	0.15
U	0805	2012-06	2.00	1.35	0.60	0.70	0.15
V	1206	3528-08	3.20	1.60	0.75	1.80	0.15

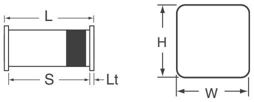

Rated Voltage (V)	Capacitance (µF)	Cap. Tol. %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (Ω) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
2.0	10	20	K	15	0.5	15	478-3254-1-ND†	7.40	6.44	5.63	478-3254-2-ND	1,000	2694.00	TACK106M002QTA
3.0	4.7	20	K	12	0.5	15	478-3255-1-ND†	7.40	6.44	5.63	478-3255-2-ND	1,000	2694.00	TACK475M003QTA
	100	20	R	30	3.0	5	478-3256-1-ND†	4.25	3.70	3.23	478-3256-2-ND	500	773.50	TACR107M003XTA
	220	20	T	20	6.6	1	478-3257-1-ND†	4.88	4.25	3.71	478-3257-2-ND	500	887.50	TACT227M003XTA
4	10	20	L	10	0.5	7.5	478-2549-1-ND	3.25	2.83	2.47	478-2549-2-ND	500	591.50	TACL106M004XTA
	10	20	R	8	0.5	5	478-2559-1-ND	4.25	3.70	3.23	478-2559-2-ND	500	773.50	TACR106M004XTA
	22	20	L	20	0.9	7.5	478-2550-1-ND†	3.25	2.83	2.47	478-2550-2-ND	500	591.50	TACL226M004XTA
	22	20	R	8	0.9	5	478-2560-1-ND	4.25	3.70	3.23	478-2560-2-ND	500	773.50	TACR226M004XTA
	33	10	R	10	1.3	5	478-4189-1-ND	4.25	3.70	3.23	—	—	—	TACR336K004XTA
	47	20	R	14	1.9	5	478-3113-1-ND	4.25	3.70	3.23	478-3113-2-ND	500	773.50	TACR476M004XTA
	100	20	A	20	4.0	1	478-2566-1-ND	5.50	4.79	4.18	478-2566-2-ND	500	1001.00	TACA107M004XTA
	100	20	R	30	4.0	5	478-4755-1-ND ***NEW!***	4.25	3.70	3.23	478-4755-2-ND ***NEW!***	2,500	1445.00/M	TACR107M004RTA
6.3	1.5	20	L	6	0.5	7.5	478-2551-1-ND	3.25	2.83	2.47	478-2551-2-ND	500	591.50	TACL155M006XTA
	2.2	20	K	8	0.5	15	478-2547-1-ND†	7.40	6.44	5.63	478-2547-2-ND	1,000	2694.00	TACK225M006QTA
	2.2	20	L	6	0.5	7.5	478-2552-1-ND	3.25	2.83	2.47	478-2552-2-ND	500	591.50	TACL225M006XTA
	10	20	L	10	0.6	6	478-2553-1-ND	4.25	3.70	3.23	478-2553-2-ND	500	773.50	TACL106M006XTA
	10	10	R	8	0.6	5	478-4185-1-ND	4.25	3.70	3.23	478-4185-2-ND	500	773.50	TACR106K006XTA
	10	20	R	8	0.6	5	478-2561-1-ND	2.75	2.40	2.09	478-2561-2-ND	500	500.50	TACR106M006XTA
	15	20	L	20	0.9	7.5	478-3114-1-ND†	3.25	2.83	2.47	478-3114-2-ND	500	591.50	TACL156M006XTA
	22	20	H	10	1.4	5	478-3258-1-ND†	4.25	3.70	3.23	478-3258-2-ND	500	773.50	TACH226M006XTA
	22	10	R	10	1.4	5	478-4188-1-ND	4.25	3.70	3.23	478-4188-2-ND	500	773.50	TACR226K006XTA
	22	20	R	10	1.4	5	478-2562-1-ND	4.25	3.70	3.23	478-2562-2-ND	500	773.50	TACR226M006XTA
	33	20	R	12	2.1	5	478-3115-1-ND	4.25	3.70	3.23	478-3115-2-ND	500	773.50	TACR336M006XTA
	47	20	R	20	3.0	5	478-3259-1-ND†	4.25	3.70	3.23	478-3259-2-ND	500	773.50	TACR476M006XTA
	47	20	A	15	3.0	1	478-3116-1-ND	5.50	4.79	4.18	478-3116-2-ND	500	1001.00	TACA476M006XTA
	100	20	T	12	6.3	1	478-3261-1-ND†	4.88	4.25	3.71	478-3261-2-ND	500	887.50	TACT107M006XTA
10	1.0	20	K	6	0.5	15	478-2548-1-ND†	7.40	6.44	5.63	478-2548-2-ND	1,000	2694.00	TACK105M010QTA
	1.0	10	L	6	0.5	7.5	478-4183-1-ND	3.25	2.83	2.47	478-4183-2-ND	500	591.50	TACL105K010XTA
	1.0	20	L	6	0.5	7.5	478-2554-1-ND	3.25	2.83	2.47	478-2554-2-ND	500	591.50	TACL105M010XTA
	2.2	20	U	8	0.5	5	478-3262-1-ND†	4.25	3.70	3.23	478-3262-2-ND	500	773.50	TACU225M010XTA
	2.2	20	L	6	0.5	7.5	478-2555-1-ND	3.25	2.83	2.47	478-2555-2-ND	500	591.50	TACL225M010XTA
	3.3	20	L	8	0.5	7.5	478-2556-1-ND	3.25	2.83	2.47	478-2556-2-ND	500	591.50	TACL335M010XTA
	3.3	20	R	8	0.5	5	478-2563-1-ND	4.25	3.70	3.23	478-2563-2-ND	500	773.50	TACR335M010XTA
	4.7	20	L	10	0.5	6	478-2557-1-ND	3.25	2.83	2.47	478-2557-2-ND	500	591.50	TACL475M010XTA
	4.7	10	R	8	0.5	6	478-4190-1-ND	4.25	3.70	3.23	478-4190-2-ND	500	773.50	TACR475K010XTA
	4.7	20	R	8	0.5	6	478-2564-1-ND	2.75	2.40	2.09	478-2564-2-ND	500	500.50	TACR475M010XTA
	10	20	L	20	1.0	7.5	478-3263-1-ND†	3.25	2.83	2.47	478-3263-2-ND	500	591.50	TACL106M010XTA
	10	10	R	8	1.0	5	478-4186-1-ND	4.25	3.70	3.23	478-4186-2-ND	500	773.50	TACR106K010XTA
	10	20	V	10	1.0	2	478-4691-1-ND ***NEW!***	6.48	5.64	4.93	478-4691-2-ND ***NEW!***	2,500	2202.00/M	TACV106M010RTA
	15	10	R	10	1.5	5	478-4187-1-ND	4.25	3.70	3.23	478-4187-2-ND	500	773.50	TACR156K010XTA
	22	20	R	14	2.5	5	478-3117-1-ND†	4.25	3.70	3.23	478-3117-2-ND	500	773.50	TACR226M010XTA
	33	20	A	12	3.3	1	478-3118-1-ND†	5.50	4.79	4.18	478-3118-2-ND	500	1001.00	TACA336M010XTA
	47	20	T	12	4.7	1	478-3264-1-ND†	4.88	4.25	3.71	478-3264-2-ND	500	887.50	TACT476M010XTA
16	1.0	20	U	8	0.5	5	478-3265-1-ND†	4.25	3.70	3.23	478-3265-2-ND	500	773.50	TACU105M016XTA
	1.0	10	L	6	0.5	7.5	478-4184-1-ND	3.25	2.83	2.47	478-4184-2-ND	500	591.50	TACL105K016XTA
	1.0	20	L	6	0.5	7.5	478-2558-1-ND	3.25	2.83	2.47	478-2558-2-ND	500	591.50	TACL105M016XTA
	2.2	20	L	10	0.5	7.5	478-3119-1-ND†	3.25	2.83	2.47	478-3119-2-ND	500	591.50	TACL225M016XTA
	10	20	R	10	1.6	5	478-2565-1-ND†	4.25	3.70	3.23	478-2565-2-ND	500	773.50	TACR106M016XTA
20	4.7	20	R	8	0.9	5	478-3266-1-ND†	4.25	3.70	3.23	478-3266-2-ND	500	773.50	TACR475M020XTA
25	1.0	20	R	8	0.5	5	478-3267-1-ND†	4.25	3.70	3.23	478-3267-2-ND	500	773.50	TACR105M025XTA

† 478-3450-ND ***TAC Series Capacitors Kit*** 5 each of values denoted. Packaged in a convenient mini-style notebook **$46.25**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OxiCap™ Niobium Oxide Capacitors

Cost versus performance is a key requirement for consumer electronic products. A solid electrolyte capacitor OxiCap has been developed by AVX in standard EIA case sizes in order to meet this requirement as a higher performance alternative to aluminum and other SMT capacitor technologies currently on the market.

The OxiCap non-burn technology is based on NbO niobium oxide ceramic material as the anodic material processed through the same manufacturing process as tantalum capacitors. The laser coded orange molded body gives total traceability.

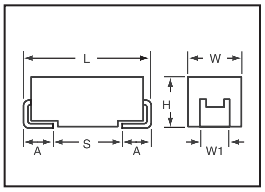

Case Size	EIA Code	Dimensions — mm L ±0.20	W +0.20, -0.10	H +0.20, -0.10	W_1 ±0.20	A +0.30, -0.20	S Min.
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.80
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
P	2012-15	2.05	1.35	1.0±0.1	1.20	0.50	0.85
S	3216-12	3.20	1.60	1.20	1.20	0.80	1.10
T	3528-12	3.50	2.80	1.20	2.20	0.80	2.00
V	7361-38	7.30	6.10	3.45±0.30	3.10	1.40	1.80
W	6032-15	6.00	3.20	1.50	2.20	1.30	2.90
X	7343-15	7.30	4.30	1.50	2.40	1.30	4.40
Y	7343-20	7.30	4.30	2.00	2.40	1.30	4.40

NOJ Series

• **Temperature Range:** -55°C ~ 105°C

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
1.8	330	20	Y	8	11.9	300	478-3196-1-ND	2.65	2.31	2.02	—	—	—	NOJY337M001RWJ
2.5	10	20	P	6	1.0	4500	478-3197-1-ND†	1.06	.93	.81	478-3197-2-ND	2,500	360.00/M	NOJP106M002RWJ
	22	20	T	6	1.1	1900	478-3198-1-ND	1.35	1.18	1.03	478-3198-2-ND	2,500	459.00/M	NOJT226M002RWJ
	33	20	A	6	1.7	1700	478-3199-1-ND†	.49	.43	.37	478-3199-2-ND	2,000	165.00/M	NOJA336M002RWJ
	470	20	E	10	23.5	300	478-3200-1-ND†	6.89	5.99	5.24	478-3200-2-ND	400	1002.40	NOJE477M002RWJ
	1000	20	V	18	50.0	300	478-3201-1-ND†	7.80	6.79	5.93	478-3201-2-ND	400	1135.60	NOJV108M002RWJ
4	6.8	20	P	6	1.0	5300	478-3202-1-ND†	1.06	.93	.81	478-3202-2-ND	2,500	360.00/M	NOJP685M004RWJ
	6.8	20	S	6	1.0	2600	478-3203-1-ND†	1.15	1.01	.88	478-3203-2-ND	2,500	391.00/M	NOJS685M004RWJ
	15	20	T	6	1.2	2000	478-3204-1-ND†	1.35	1.18	1.03	478-3204-2-ND	2,500	459.00/M	NOJT156M004RWJ
	22	20	A	6	1.8	1900	478-3205-1-ND†	.55	.48	.42	478-3205-2-ND	2,000	185.00/M	NOJA226M004RWJ
	22	20	B	6	1.8	1900	478-3206-1-ND†	.53	.46	.40	478-3206-2-ND	2,000	179.00/M	NOJB226M004RWJ
	47	20	B	6	3.8	1600	478-3207-1-ND†	.73	.64	.56	478-3207-2-ND	2,000	247.00/M	NOJB476M004RWJ
	47	20	C	6	3.8	500	478-3208-1-ND†	.96	.84	.73	478-3208-2-ND	500	174.50	NOJC476M004RWJ
	100	20	C	6	8	400	478-1824-1-ND†	.75	.66	.57	478-1824-2-ND	500	136.50	NOJC107M004RWJ
	150	20	C	6	12	400	478-3209-1-ND†	1.75	1.53	1.33	478-3209-2-ND	500	318.50	NOJC157M004RWJ
	220	20	D	8	17.6	400	478-3210-1-ND†	1.76	1.53	1.34	—	—	—	NOJD227M004RWJ
	330	20	D	8	26.4	300	478-3211-1-ND†	6.30	5.49	4.79	478-3211-2-ND	500	1146.50	NOJD337M004RWJ
	680	20	V	14	54.4	300	478-3212-1-ND†	7.80	6.79	5.93	478-3212-2-ND	400	1135.60	NOJV687M004RWJ
6.3	4.7	20	A	6	1.1	3100	478-3213-1-ND†	.40	.35	.31	478-3213-2-ND	2,000	136.00/M	NOJA475M006RWJ
	4.7	20	S	6	1.0	3200	478-3214-1-ND†	1.15	1.01	.88	478-3214-2-ND	2,500	391.00/M	NOJS475M006RWJ
	10	20	A	6	1.2	2200	478-1821-1-ND†	.40	.35	.31	478-1821-2-ND	2,000	136.00/M	NOJS475M006RWJ
	15	20	B	6	1.8	2000	478-1822-1-ND†	.55	.48	.42	—	—	—	NOJB156M006RWJ
	22	20	B	6	2.64	1900	478-1823-1-ND†	.50	.44	.38	478-1823-2-ND	2,000	170.00/M	NOJB226M006RWJ
	33	20	B	6	4.0	1700	478-3215-1-ND	.74	.65	.57	478-3215-2-ND	2.000	252.00/M	NOJB336M006RWJ
	33	20	C	6	4.0	500	478-3216-1-ND†	.96	.84	.73	478-3216-2-ND	500	174.50	NOJC336M006RWJ
	47	20	C	6	5.7	500	478-3217-1-ND†	.96	.84	.73	478-3217-2-ND	500	174.50	NOJC476M006RWJ
	68	20	C	6	8.2	500	478-3218-1-ND†	1.20	1.04	.91	478-3218-2-ND	500	217.50	NOJC686M006RWJ
	100	20	Y	6	12.0	400	478-3219-1-ND†	2.65	2.31	2.02	478-3219-2-ND	1,000	965.00	NOJY107M006RWJ
	100	20	D	6	12.0	400	478-1825-1-ND†	1.05	.92	.80	478-1825-2-ND	500	191.00	NOJD107M006RWJ
	150	20	D	6	18.0	400	478-1826-1-ND†	1.25	1.09	.95	478-1826-2-ND	500	227.50	NOJD157M006RWJ
	220	20	E	12	26.4	400	478-1827-1-ND†	3.00	2.61	2.28	478-1827-2-ND	400	436.80	NOJE227M006RWJ
	330	20	E	12	39.6	300	478-1828-1-ND†	3.93	3.42	2.99	478-1828-2-ND	400	571.60	NOJE337M006RWJ
10	4.7	20	A	6	1.0	3100	478-3120-1-ND	.36	.32	.28	478-3120-2-ND	2,000	124.00/M	NOJA475M010RWJ
	10	20	A	6	2.0	2200	478-3121-1-ND	.41	.36	.31	478-3121-2-ND	2,000	138.00/M	NOJA106M010RWJ
	10	20	B	6	2.0	2200	478-3122-1-ND	.47	.42	.36	478-3122-2-ND	2,000	161.00/M	NOJB106M010RWJ
	15	20	B	6	3.0	2000	478-3220-1-ND†	.57	.50	.44	478-3220-2-ND	2.000	194.00/M	NOJB156M010RWJ
	22	20	B	6	4.4	1800	478-3123-1-ND	.68	.59	.52	478-3123-2-ND	2,000	230.00/M	NOJB226M010RWJ
	22	20	C	6	4.4	500	478-3124-1-ND	.95	.83	.72	478-3124-2-ND	500	172.00	NOJC226M010RWJ
	33	20	C	6	6.6	500	478-3125-1-ND	.95	.83	.72	478-3125-2-ND	500	172.00	NOJC336M010RWJ
	47	20	C	6	9.4	400	478-3126-1-ND	.95	.83	.72	478-3126-2-ND	500	172.00	NOJC476M010RWJ

† 478-3445-ND ***NOJ Series Capacitors Kit*** 5 each of values denoted. Packaged in a convenient mini-style notebook **$46.25**

NOS Low ESR Series

• **Temperature Range:** -55°C ~ 125°C

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
1.8	330	20	Y	8	11.9	100	478-3221-1-ND†	6.00	5.22	4.56	478-3221-2-ND	1,000	2184.00	NOSY337M001R0100
	470	20	Y	8	16.9	100	478-3222-1-ND†	6.00	5.22	4.56	478-3222-2-ND	1,000	2184.00	NOSY477M001R0100
2.5	68	20	C	6	3.4	200	478-3223-1-ND	2.03	1.77	1.54	478-3223-2-ND	500	368.50	NOSC686M002R0200
	100	20	C	6	5.0	150	478-3224-1-ND	2.16	1.88	1.65	478-3224-2-ND	500	393.00	NOSC107M002R0150
	150	20	C	6	7.6	65	478-3225-1-ND†	2.95	2.57	2.25	—	—	—	NOSC157M002R0065
	220	20	C	8	11.0	80	478-3226-1-ND†	2.60	2.27	1.98	478-3226-2-ND	500	473.00	NOSC227M002R0080
	220	20	Y	8	11.0	100	478-3227-1-ND	6.00	5.22	4.56	478-3227-2-ND	1,000	2184.00	NOSY227M002R0100
	470	20	D	10	23.5	100	478-3228-1-ND†	5.90	5.14	4.49	478-3228-2-ND	500	1074.00	NOSD477M002R0100
	680	20	E	12	34.0	60	478-3229-1-ND†	11.00	9.57	8.36	478-3229-2-ND	400	1601.60	NOSE687M002R0060
	1000	20	V	18	50.0	50	478-3230-1-ND†	11.90	10.36	9.05	478-3230-2-ND	400	1732.80	NOSV108M002R0050
4	15	20	A	6	1.2	1500	478-3231-1-ND†	.88	.77	.67	478-3231-2-ND	2,000	298.00/M	NOSA156M004R1500
	22	20	B	6	1.8	600	478-3232-1-ND†	1.08	.94	.82	478-3232-2-ND	2,000	366.00/M	NOSB226M004R0600
	47	20	W	6	3.8	150	478-3233-1-ND†	3.00	2.61	2.28	478-3233-2-ND	1,000	1092.00	NOSW476M004R0150
	68	20	C	6	5.4	200	478-3234-1-ND†	2.25	1.96	1.71	478-3234-2-ND	500	409.50	NOSC686M004R0200
	100	20	C	6	8.0	70	478-3235-1-ND†	2.81	2.45	2.14	478-3235-2-ND	500	511.50	NOSC107M004R0070
	100	20	X	6	8.0	100	478-3236-1-ND†	6.00	5.22	4.56	—	—	—	NOSX107M004R0100
	150	20	Y	6	12.0	100	478-3237-1-ND†	6.00	5.22	4.56	478-3237-2-ND	1,000	2184.00	NOSY157M004R0100
	150	20	C	6	12.0	90	478-3238-1-ND†	2.95	2.57	2.25	478-3238-2-ND	500	537.00	NOSC157M004R0090
	220	20	D	8	17.6	60	478-3239-1-ND†	9.95	8.66	7.57	478-3239-2-ND	500	1811.00	NOSD227M004R0060
	220	20	D	8	17.6	100	478-3240-1-ND	3.60	3.14	2.74	478-3240-2-ND	500	655.00	NOSD227M004R0100
	470	20	E	12	37.6	75	478-3241-1-ND†	9.95	8.66	7.57	478-3241-2-ND	400	1448.80	NOSE477M004R0075
	680	20	V	14	54.4	75	478-3242-1-ND†	11.90	10.36	9.05	478-3242-2-ND	400	1732.80	NOSV687M004R0075
	330	20	D	8	26.4	100	478-1830-1-ND†	3.60	3.14	2.74	478-1830-2-ND	500	655.00	NOSD337M004R0100
6.3	10	20	A	6	1.2	2000	478-3243-1-ND†	.88	.77	.67	478-3243-2-ND	2,000	298.00/M	NOSA106M006R2000
	22	20	B	6	2.6	600	478-3244-1-ND†	1.08	.94	.82	478-3244-2-ND	2,000	366.00/M	NOSB226M006R0600
	33	20	B	6	4.0	600	478-3245-1-ND†	1.08	.94	.82	478-3245-2-ND	2,000	366.00/M	NOSB336M006R0600
	33	20	W	6	4.0	250	478-3252-1-ND†	3.00	2.61	2.28	478-3252-2-ND	1,000	1092.00	NOSW336M006R0250
	68	20	C	6	8.2	200	478-3246-1-ND†	2.35	2.05	1.79	478-3246-2-ND	500	427.50	NOSC686M006R0200
	100	20	D	6	12.0	100	478-1829-1-ND	2.35	2.05	1.79	478-1829-2-ND	500	427.50	NOSD107M006R0100
	100	20	D	6	12.0	80	478-3247-1-ND†	9.95	8.66	7.57	478-3247-2-ND	500	1811.00	NOSD107M006R0080
	150	20	D	6	18.0	70	478-3248-1-ND†	9.95	8.66	7.57	478-3248-2-ND	500	1811.00	NOSD157M006R0070
	220	20	D	8	26.4	100	478-3249-1-ND†	4.00	3.48	3.04	478-3249-2-ND	500	727.00	NOSD227M006R0100
	220	20	E	12	26.4	80	478-3250-1-ND†	8.80	7.66	6.69	478-3250-2-ND	400	1281.20	NOSE227M006R0080
	330	20	E	12	39.6	80	478-3251-1-ND†	8.80	7.66	6.69	478-3251-2-ND	400	1281.20	NOSE337M006R0080
	470	20	V	12	56.4	75	478-3253-1-ND†	11.90	10.36	9.05	478-3253-2-ND	400	1732.80	NOSV477M006R0075

† 478-3446-ND ***NOS Series Capacitors Kit*** 5 each of values denoted. Packaged in a convenient mini-style notebook **$46.25**

Tantalum Dipped / Radial Capacitors

T350 and T356 “UltraDip II” Series

The KEMET “UltraDip II” Series, miniature dipped solid tantalum capacitors, provide the designer with the advantage of compactness plus low leakage and low DF performance characteristics for filtering, bypassing, coupling, blocking and RC timing circuits.

The plastic case provides a tough barrier coating and maintains precision of lead wire spacing within ±0.015 inch.

All case sizes are printed with capacitance, voltage, polarity and vendor identification, these self-insulating cases are resistant to shock and vibration.

The gold color epoxy permits Laser marking with outstanding permanency and legibility.

Solid tantalum devices exhibit no degradation failure mode during shelf storage.

These capacitors exhibit low DCL, ESR and Impedance and have excellent temperature stability. *The ESR values provided are for reference only.*

- **Operating Temperature:** -55°C~85°C (125°C with voltage derating)
- **Capacitance Tolerance (%):** ±10

T350 Series

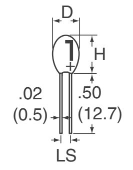

T356 Series

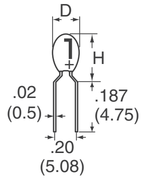

WV (DC)	Cap. (µF)	ESRΩ @ 100KHz @ +25°C	D.C.L. µA@ 25°C	Max. DF % @25°C 120Hz	Dimensions – mm			Digi-Key Part No.	Price Each			Kemet Part No.
					D	H	LS		1	10	100	
T350 Series												
10	3.3	10	0.5	5	4.5	7.1	2.54	399-1388-ND	.48	.42	.33	T350A335K010AS
	33	2.1	2.6	6	6.0	9.9	2.54	399-1394-ND	1.03	.89	.70	T350F336K010AS
16	6.8	4	0.9	5	5.0	8.4	2.54	399-1402-ND	.69	.59	.47	T350C685K016AS
	10	3.2	1.3	6	5.5	8.9	2.54	399-1403-ND	.71	.61	.48	T350E106K016AS
50	.15	21	0.5	3	4.5	7.1	2.54	399-1440-ND	.53	.45	.36	T350A154K050AS
	.68	10	0.5	3	4.5	7.6	2.54	399-1444-ND	.59	.51	.40	T350B684K050AS
T350 Series — RoHS Compliant												
6.3	4.7	10	0.5	5	4.5	7.1	2.54	399-3543-ND	.39	.34	.27	T350A475K006AT
	6.8	8	0.5	5	4.5	7.1	2.54	399-3546-ND	.48	.42	.33	T350A685K006AT
	10	6	0.5	6	4.5	7.6	2.54	399-3548-ND	.59	.51	.40	T350B106K006AT
	15	5	0.7	6	5.0	8.4	2.54	399-3557-ND	.66	.57	.45	T350C156K006AT
	22	3.7	1.1	6	5.0	8.6	2.54	399-3561-ND	.78	.68	.53	T350D226K006AT
	33	3	1.6	6	5.5	8.9	2.54	399-3571-ND	.83	.72	.56	T350E336K006AT
	47	2	2.3	6	6.0	9.9	2.54	399-3577-ND	.93	.80	.63	T350F476K006AT
	68	1.8	3.3	6	6.3	10.2	2.54	399-3582-ND	1.10	.95	.75	T350G686K006AT
	100	1.6	4.8	8	7.6	10.2	2.54	399-3583-ND	2.60	2.23	1.75	T350H107K006AT
	150	0.9	7.2	8	8.4	12.7	5.08	399-3590-ND	3.33	2.86	2.24	T350J157K006AT
10	2.2	13	0.5	5	4.5	7.1	2.54	399-3536-ND	.48	.42	.33	T350A225K010AT
	3.3	10	0.5	5	4.5	7.1	2.54	399-3540-ND	.48	.42	.33	T350A335K010AT
	4.7	8	0.5	5	4.5	7.1	2.54	399-3544-ND	.48	.42	.33	T350A475K010AT
	6.8	6	0.5	5	4.5	7.6	2.54	399-3555-ND	.66	.57	.45	T350B685K010AT
	10	5	0.8	6	5.0	8.4	2.54	399-3556-ND	.66	.57	.45	T350C106K010AT
	15	3.7	1.2	6	5.5	8.9	2.54	399-3567-ND	.78	.68	.53	T350E156K010AT
	22	2.7	1.8	6	5.5	8.9	2.54	399-3570-ND	.88	.76	.60	T350E226K010AT
	33	2.1	2.6	6	6.0	9.9	2.54	399-3576-ND	1.03	.89	.70	T350F336K010AT
	47	1.7	3.8	6	7.6	10.2	2.54	399-3586-ND	1.81	1.56	1.22	T350H476K010AT
	68	1.3	5.4	6	7.6	10.2	2.54	399-3587-ND	2.60	2.23	1.75	T350H686K010AT
	100	1	8.0	8	8.4	12.7	5.08	399-3588-ND	3.33	2.86	2.24	T350J107K010AT
16	1.5	10	0.5	5	4.5	7.1	2.54	399-3532-ND	.48	.42	.33	T350A155K016AT
	2.2	8	0.5	5	4.5	7.1	2.54	399-3537-ND	.48	.42	.33	T350A225K016AT
	3.3	6	0.5	5	4.5	7.1	2.54	399-3541-ND	.48	.42	.33	T350A335K016AT
	4.7	5	0.6	5	4.5	7.6	2.54	399-3553-ND	.59	.51	.40	T350B475K016AT
	6.8	4	0.9	5	5.0	8.4	2.54	399-3560-ND	.69	.59	.47	T350C685K016AT
	10	3.2	1.3	6	5.5	8.9	2.54	399-3563-ND	.71	.61	.48	T350E106K016AT
	15	2.5	1.8	6	5.5	8.9	2.54	399-3568-ND	.93	.80	.63	T350E156K016AT
	22	2	2.6	6	6.0	9.9	2.54	399-3574-ND	.93	.80	.63	T350F226K016AT
	33	1.6	4.0	6	7.6	10.2	2.54	399-3585-ND	1.81	1.56	1.22	T350H336K016AT
	47	1.3	5.6	6	8.4	12.7	5.08	399-3592-ND	2.77	2.38	1.87	T350J476K016AT
	68	1	8.2	6	8.9	13.5	5.08	399-3597-ND	3.33	2.86	2.24	T350K686K016AT
	100	0.8	10.0	8	8.9	16.0	5.08	399-3598-ND	7.14	6.12	4.80	T350L107K016AT
20	10	2.9	1.6	6	5.5	8.9	2.54	399-3564-ND	.88	.76	.60	T350E106K020AT
	100	0.6	10.0	8	10.2	17.0	5.08	399-3599-ND	8.18	7.02	5.50	T350M107K020AT
25	1.0	10	0.5	3	4.5	7.1	2.54	399-3528-ND	.48	.42	.33	T350A105K025AT
	1.5	8	0.5	5	4.5	7.1	2.54	399-3533-ND	.48	.42	.33	T350A155K025AT
	2.2	6	0.5	5	4.5	7.6	2.54	399-3550-ND	.59	.51	.40	T350B225K025AT
	3.3	5	0.7	5	4.5	7.6	2.54	399-3551-ND	.59	.51	.40	T350B335K025AT
	4.7	4	0.9	5	5.0	8.4	2.54	399-3559-ND	.71	.61	.48	T350C475K025AT
	6.8	3.1	1.4	5	5.5	8.9	2.54	399-3573-ND	.93	.80	.63	T350E685K025AT
	10	2.5	2.0	6	5.5	8.9	2.54	399-3565-ND	.93	.80	.63	T350E106K025AT
	15	2	3.0	6	6.3	10.2	2.54	399-3580-ND	2.00	1.71	1.34	T350G156K025AT
	22	1.5	4.4	6	7.6	10.2	2.54	399-3584-ND	2.60	2.23	1.75	T350H226K025AT
	33	1.2	6.6	6	8.4	12.7	5.08	399-3591-ND	3.33	2.86	2.24	T350J336K025AT
	47	1	9.4	6	8.9	13.5	5.08	399-3596-ND	5.07	4.35	3.41	T350K476K025AT
35	.10	26	0.5	3	4.5	7.1	2.54	399-3526-ND	.48	.42	.33	T350A104K035AT
	.15	21	0.5	3	4.5	7.1	2.54	399-3530-ND	.48	.42	.33	T350A154K035AT
	.22	17	0.5	3	4.5	7.1	2.54	399-3534-ND	.48	.42	.33	T350A224K035AT
	.33	15	0.5	3	4.5	7.1	2.54	399-3538-ND	.48	.42	.33	T350A334K035AT
	.47	13	0.5	3	4.5	7.1	2.54	399-3542-ND	.48	.42	.33	T350A474K035AT
	.68	10	0.5	3	4.5	7.1	2.54	399-3545-ND	.48	.42	.33	T350A684K035AT
	1.0	8	0.5	3	4.5	7.1	2.54	399-3529-ND	.48	.42	.33	T350A105K035AT
	1.5	6	0.5	5	4.5	7.6	2.54	399-3549-ND	.54	.47	.37	T350B155K035AT
	2.2	5	0.6	5	5.0	8.4	2.54	399-3558-ND	.59	.51	.40	T350C225K035AT
	3.3	4	0.9	5	5.0	8.6	2.54	399-3562-ND	.74	.63	.50	T350D335K035AT
	4.7	3	1.3	5	5.5	8.9	2.54	399-3572-ND	.78	.68	.53	T350E475K035AT
	6.8	2.5	1.9	5	6.0	9.9	2.54	399-3578-ND	.88	.76	.60	T350F685K035AT
	10	2	2.8	6	6.3	10.2	2.54	399-3579-ND	1.50	1.29	1.01	T350G106K035AT
	15	1.6	4.2	6	8.4	12.7	5.08	399-3589-ND	3.14	2.69	2.11	T350J156K035AT
	22	1.3	6.2	6	8.9	13.5	5.08	399-3595-ND	3.14	2.69	2.11	T350K226K035AT
	47	0.8	10.0	6	10.2	17.0	5.08	399-3600-ND	8.18	7.02	5.50	T350M476K035AT
50	.10	26	0.5	3	4.5	7.1	2.54	399-3527-ND	.53	.45	.36	T350A104K050AT
	.15	21	0.5	3	4.5	7.1	2.54	399-3531-ND	.53	.45	.36	T350A154K050AT
	.22	17	0.5	3	4.5	7.1	2.54	399-3535-ND	.53	.45	.36	T350A224K050AT
	.33	15	0.5	3	4.5	7.1	2.54	399-3539-ND	.53	.45	.36	T350A334K050AT
	.47	13	0.5	3	4.5	7.6	2.54	399-3552-ND	.59	.51	.40	T350B474K050AT
	.68	10	0.5	3	4.5	7.6	2.54	399-3554-ND	.59	.51	.40	T350B684K050AT
	1.0	8	0.5	3	4.5	7.6	2.54	399-3547-ND	.59	.51	.40	T350B105K050AT
	1.5	5	0.6	5	5.5	8.9	2.54	399-3566-ND	.88	.76	.60	T350E155K050AT
	2.2	3.5	0.9	5	5.5	8.9	2.54	399-3569-ND	.93	.80	.63	T350E225K050AT
	3.3	3	1.3	5	6.0	9.9	2.54	399-3575-ND	1.03	.89	.70	T350F335K050AT
50	4.7	2.5	1.9	5	6.3	10.2	2.54	399-3581-ND	1.29	1.11	.87	T350G475K050AT
	6.8	2	2.7	5	8.4	12.7	5.08	399-3593-ND	3.02	2.60	2.04	T350J685K050AT
	10	1.6	4.0	6	8.9	13.5	5.08	399-3594-ND	5.32	4.56	3.58	T350K106K050AT
T356 Series												
16	6.8	4	0.9	5	5.0	9.6	5.08	399-1327-ND	.69	.59	.47	T356C685K016AS
T356 Series — RoHS Compliant												
6.3	4.7	10	0.5	5	4.5	8.6	5.08	399-3618-ND	.39	.34	.27	T356A475K006AT
	6.8	8	0.5	5	4.5	8.6	5.08	399-3621-ND	.48	.42	.33	T356A685K006AT
	10	6	0.5	6	4.5	8.9	5.08	399-3623-ND	.59	.51	.40	T356B106K006AT
	15	5	0.7	6	5.0	9.6	5.08	399-3632-ND	.66	.57	.45	T356C156K006AT
	22	3.7	1.1	6	5.0	9.9	5.08	399-3636-ND	.78	.68	.53	T356D226K006AT
	33	3	1.6	6	5.5	10.2	5.08	399-3646-ND	.83	.72	.56	T356E336K006AT
	47	2	2.3	6	6.0	11.2	5.08	399-3652-ND	.93	.80	.63	T356F476K006AT
	68	1.8	3.3	6	6.3	11.4	5.08	399-3657-ND	1.10	.95	.75	T356G686K006AT
	100	1.6	4.8	8	7.6	11.9	5.08	399-3658-ND	2.60	2.23	1.75	T356H107K006AT
	150	0.9	7.2	8	8.4	14.0	5.08	399-3665-ND	3.33	2.86	2.24	T356J157K006AT
10	2.2	13	0.5	5	4.5	8.6	5.08	399-3611-ND	.48	.42	.33	T356A225K010AT
	3.3	10	0.5	5	4.5	8.6	5.08	399-3615-ND	.48	.42	.33	T356A335K010AT
	4.7	8	0.5	5	4.5	8.6	5.08	399-3619-ND	.48	.42	.33	T356A475K010AT
	6.8	6	0.5	5	4.5	8.9	5.08	399-3630-ND	.66	.57	.45	T356B685K010AT
	10	5	0.8	6	5.0	9.6	5.08	399-3631-ND	.66	.57	.45	T356C106K010AT
	15	3.7	1.2	6	5.5	10.2	5.08	399-3642-ND	.78	.68	.53	T356E156K010AT
	22	2.7	1.8	6	5.5	10.2	5.08	399-3645-ND	.88	.76	.60	T356E226K010AT
	33	2.1	2.6	6	6.0	11.2	5.08	399-3651-ND	1.03	.89	.70	T356F336K010AT
	47	1.7	3.8	6	7.6	11.9	5.08	399-3661-ND	1.81	1.56	1.22	T356H476K010AT
	68	1.3	5.4	6	7.6	11.9	5.08	399-3662-ND	2.60	2.23	1.75	T356H686K010AT
	100	1	8.0	8	8.4	14.0	5.08	399-3663-ND	3.33	2.86	2.24	T356J107K010AT
15	1.5	10	0.5	5	4.5	8.6	5.08	399-3607-ND	.48	.42	.33	T356A155K016AT
	2.2	8	0.5	5	4.5	8.6	5.08	399-3612-ND	.48	.42	.33	T356A225K016AT
	3.3	6	0.5	5	4.5	8.6	5.08	399-3616-ND	.48	.42	.33	T356A335K016AT
	4.7	5	0.6	5	4.5	8.9	5.08	399-3628-ND	.59	.51	.40	T356B475K016AT
	6.8	4	0.9	5	5.0	9.6	5.08	399-3635-ND	.69	.59	.47	T356C685K016AT
	10	3.2	1.3	6	5.5	10.2	5.08	399-3638-ND	.71	.61	.48	T356E106K016AT
	15	2.5	1.8	6	5.5	10.2	5.08	399-3643-ND	.93	.80	.63	T356E156K016AT
	22	2	2.6	6	6.0	11.2	5.08	399-3649-ND	.93	.80	.63	T356F226K016AT
	33	1.6	4.0	6	7.6	11.9	5.08	399-3660-ND	1.81	1.56	1.22	T356H336K016AT
	47	1.3	5.6	6	8.4	14.0	5.08	399-3667-ND	2.77	2.38	1.87	T356J476K016AT
	68	1	8.2	6	8.9	15.5	5.08	399-3672-ND	3.33	2.86	2.24	T356K686K016AT
	100	0.8	10.0	8	8.9	18.1	5.08	399-3673-ND	7.14	6.12	4.80	T356L107K016AT
20	10	2.9	1.6	6	5.5	10.2	5.08	399-3639-ND	.88	.76	.60	T356E106K020AT
	100	0.6	10.0	8	10.2	18.8	5.08	399-3674-ND	8.18	7.02	5.50	T356M107K020AT
25	1.0	10	0.5	3	4.5	8.6	5.08	399-3603-ND	.48	.42	.33	T356A105K025AT
	1.5	8	0.5	5	4.5	8.6	5.08	399-3608-ND	.48	.42	.33	T356A155K025AT
	2.2	6	0.5	5	4.5	8.9	5.08	399-3625-ND	.59	.51	.40	T356B225K025AT
	3.3	5	0.7	5	4.5	8.9	5.08	399-3626-ND	.59	.51	.40	T356B335K025AT
	4.7	4	0.9	5	5.0	9.6	5.08	399-3634-ND	.71	.61	.48	T356C475K025AT
	6.8	3.1	1.4	5	5.5	10.2	5.08	399-3648-ND	.93	.80	.63	T356E685K025AT
	10	2.5	2.0	6	5.5	10.2	5.08	399-3640-ND	.93	.80	.63	T356E106K025AT
	15	2	3.0	6	6.3	11.4	5.08	399-3655-ND	2.00	1.71	1.34	T356G156K025AT
	22	1.5	4.4	6	7.6	11.9	5.08	399-3659-ND	2.60	2.23	1.75	T356H226K025AT
	33	1.2	6.6	6	8.4	14.0	5.08	399-3666-ND	3.33	2.86	2.24	T356J336K025AT
	47	1.2	9.4	6	8.9	15.5	5.08	399-3671-ND	5.07	4.35	3.41	T356K476K025AT
35	.10	26	0.5	3	4.5	8.6	5.08	399-3601-ND	.48	.42	.33	T356A104K035AT
	.15	21	0.5	3	4.5	8.6	5.08	399-3605-ND	.48	.42	.33	T356A154K035AT
	.22	17	0.5	3	4.5	8.6	5.08	399-3609-ND	.48	.42	.33	T356A224K035AT
	.33	15	0.5	3	4.5	8.6	5.08	399-3613-ND	.48	.42	.33	T356A334K035AT
	.47	13	0.5	3	4.5	8.6	5.08	399-3617-ND	.48	.42	.33	T356A474K035AT
	.68	10	0.5	3	4.5	8.6	5.08	399-3620-ND	.48	.42	.33	T356A684K035AT
	1.0	8	0.5	3	4.5	8.6	5.08	399-3604-ND	.48	.42	.33	T356A105K035AT
	1.5	6	0.5	5	4.5	8.9	5.08	399-3624-ND	.54	.47	.37	T356B155K035AT
	2.2	5	0.6	5	5.0	9.6	5.08	399-3633-ND	.59	.51	.40	T356C225K035AT
	3.3	4	0.9	5	5.0	9.9	5.08	399-3637-ND	.74	.63	.50	T356D335K035AT
	4.7	3	1.3	5	5.5	10.2	5.08	399-3647-ND	.78	.68	.53	T356E475K035AT
	6.8	2.5	1.9	5	6.0	11.2	5.08	399-3653-ND	.88	.76	.60	T356F685K035AT
	10	2	2.8	6	6.3	11.4	5.08	399-3654-ND	1.50	1.29	1.01	T356G106K035AT
	15	1.6	4.2	6	8.4	14.0	5.08	399-3664-ND	3.14	2.69	2.11	T356J156K035AT
	22	1.3	6.2	6	8.9	15.5	5.08	399-3670-ND	3.14	2.69	2.11	T356K226K035AT
	47	0.8	10.0	6	10.2	18.8	5.08	399-3675-ND	8.18	7.02	5.50	T356M476K035AT
50	.10	26	0.5	3	4.5	8.6	5.08	399-3602-ND	.53	.45	.36	T356A104K050AT
	.15	21	0.5	3	4.5	8.6	5.08	399-3606-ND	.53	.45	.36	T356A154K050AT
	.22	17	0.5	3	4.5	8.6	5.08	399-3610-ND	.53	.45	.36	T356A224K050AT
	.33	15	0.5	3	4.5	8.6	5.08	399-3614-ND	.53	.45	.36	T356A334K050AT
	.47	13	0.5	3	4.5	8.9	5.08	399-3627-ND	.59	.51	.40	T356B474K050AT
	.68	10	0.5	3	4.5	8.9	5.08	399-3629-ND	.59	.51	.40	T356B684K050AT
	1.0	8	0.5	3	4.5	8.9	5.08	399-3622-ND	.59	.51	.40	T356B105K050AT
	1.5	5	0.6	5	5.5	10.2	5.08	399-3641-ND	.88	.76	.60	T356E155K050AT
	2.2	3.5	0.9	5	5.5	10.2	5.08	399-3644-ND	.93	.80	.63	T356E225K050AT
	3.3	3	1.3	5	6.0	11.2	5.08	399-3650-ND	1.03	.89	.70	T356F335K050AT
	4.7	2.5	1.9	5	6.3	11.4	5.08	399-3656-ND	1.29	1.11	.87	T356G475K050AT
	6.8	2	2.7	5	8.4	14.0	5.08	399-3668-ND	3.02	2.60	2.04	T356J685K050AT
	10	1.6	4.0	6	8.9	15.5	5.08	399-3669-ND	5.32	4.56	3.58	T356K106K050AT

KEMET CHARGED.

High-Temperature Wet Tantalum Capacitors

Applications: • Filtering, bypass circuits • Coupling and timing circuits • Low source impedance circuits • High charging current circuits

Features: • Operating Temperature: -55°C ~ 200°C, derated voltage • Volts, 6-125 • Low ESR • Tantalum case

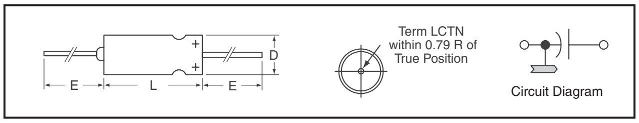

Circuit Diagram

WV (DC)	Cap. (µF)	Cap. Tol.	Maximum D.C. Leakage µA@25°C	Max. DF @25°C 120Hz	Max. ESR Ω @25°C 120Hz	Max. Ripple Current mArms @85°C 40kHz	Dimensions - mm			Kemet Case Size	MIL-PRF-39006/22/25/30/31 Case Size	Digi-Key Part No.	Price Each			Kemet Part No.
							L (Maximum)	D (Maximum)	E ± 6.35				1	10	100	
6V@85°C (3V@200°C)	30	10%	1	9	3.98	820	12.29	5.56	38.10	A	T1	399-3412-ND	30.00	22.50	18.00	T197A306K006AS
8V@85°C (4V@200°C)	56	10%	1	14	3.32	900	12.29	5.56	38.10	A	T1	399-3415-ND	30.00	22.50	18.00	T197A566K008AS
10V@85°C (5V@200°C)	20	10%	1	6	3.98	820	12.29	5.56	38.10	A	T1	399-3409-ND	30.00	22.50	18.00	T197A206K010AS
	47	10%	1	13	3.67	855	12.29	5.56	38.10	A	T1	399-3414-ND	30.00	22.50	18.00	T197A476K010AS
15V@85°C (7.5V@200°C)	15	10%	1	5	4.42	780	12.29	5.56	38.10	A	T1	399-3406-ND	30.00	22.50	18.00	T197A156K015AS
	100	10%	2	30	3.98	900	12.29	5.56	38.10	A	T1	399-3424-ND	34.00	25.50	20.40	T198A107K015AS
25V@85°C (12.5V@200°C)	10	10%	1	4	5.31	715	12.29	5.56	38.10	A	T1	399-3404-ND	30.00	22.50	18.00	T197A106K025AS
	22	10%	1	7	4.22	800	12.29	5.56	38.10	A	T1	399-3410-ND	30.00	22.50	18.00	T197A226K025AS
	68	10%	2	22	4.29	850	12.29	5.56	38.10	A	T1	399-3428-ND	34.00	25.50	20.40	T198A686K025AS
	270	10%	3	55	2.70	1400	17.07	7.92	57.15	B	T2	399-3432-ND	44.00	33.00	26.40	T198B277K025AS
30V@85°C (15V@200°C)	15	20%	1	5	4.42	780	12.29	5.56	38.10	A	T1	399-3407-ND	30.00	22.50	18.00	T197A156M030AS
	56	10%	2	22	5.21	800	12.29	5.56	38.10	A	T1	399-3427-ND	34.00	25.50	20.40	T198A566K030AS
50V@85°C (25V@200°C)	10	10%	1	4	5.31	715	12.29	5.56	38.10	A	T1	399-3405-ND	30.00	22.50	18.00	T197A106K050AS
	47	10%	1	13	3.67	1155	17.07	7.92	57.15	B	T2	399-3420-ND	40.00	30.00	24.00	T197B476K050AS
	33	10%	2	12.3	4.95	700	12.29	5.56	38.10	A	T1	399-3426-ND	34.00	25.50	20.40	T198A336K050AS
	120	10%	4	22.5	2.49	1200	17.07	7.92	57.15	B	T2	399-3430-ND	44.00	33.00	26.40	T198B127K050AS
	330	10%	9	38	1.53	1900	27.76	10.31	57.15	D	T4	399-3434-ND	70.00	52.50	42.00	T198D337K050AS
60V@85°C (30V@200°C)	39	10%	1	12	4.08	1110	17.07	7.92	57.15	B	T2	399-3419-ND	40.00	30.00	24.00	T197B396K060AS
	100	10%	4	19	2.52	1100	17.07	7.92	57.15	B	T2	399-3429-ND	44.00	33.00	26.40	T198B107K060AS
75V@85°C (37.5V@200°C)	6.8	10%	1	3.5	6.83	610	12.29	5.56	38.10	A	T1	399-3416-ND	30.00	22.50	18.00	T197A685K075AS
	15	10%	1	6	5.31	890	17.07	7.92	57.15	B	T2	399-3417-ND	40.00	30.00	24.00	T197B156K075AS
	22	10%	3	8.5	5.13	600	12.29	5.56	38.10	A	T1	399-3425-ND	34.00	25.50	20.40	T198A226K075AS
	33	10%	1	10	4.02	1000	17.07	7.92	57.15	B	T2	399-3418-ND	40.00	30.00	24.00	T197B336K075AS
	82	10%	4	15.2	2.46	1000	17.07	7.92	57.15	B	T2	399-3433-ND	44.00	33.00	26.40	T198B826K075AS
100V@85°C (50V@200°C)	2.5	10%	1	2	10.62	505	12.29	5.56	38.10	A	T1	399-3411-ND	30.00	22.50	18.00	T197A255K100AS
	10	10%	3	4.5	5.97	800	12.29	5.56	38.10	A	T1	399-3423-ND	34.00	25.50	20.40	T198A106K100AS
125V@85°C (62.5V@200°C)	1.7	10%	1	2	15.61	415	12.29	5.56	38.10	A	T1	399-3408-ND	30.00	22.50	18.00	T197A175K125AS
	3.6	10%	1	3	11.05	520	12.29	5.56	38.10	A	T1	399-3413-ND	30.00	22.50	18.00	T197A365K125AS
	27	10%	5	7.2	3.54	1200	17.07	7.92	57.15	B	T2	399-3431-ND	44.00	33.00	26.40	T198B276K125AS
	56	10%	10	6.5	1.54	1800	27.76	10.31	57.15	D	T4	399-3422-ND	62.00	46.50	37.20	T197D566K125AS
	82	10%	12	17.4	2.82	1900	27.76	10.31	57.15	D	T4	399-3435-ND	70.00	52.50	42.00	T198D826K125AS

Molded Axial Tantalum Capacitors T322 Series

The KEMET T322 Series offers a complete line of extended range molded solid tantalum capacitors. These capacitors offer an extremely high capacitance-to-volume ratio while still maintaining excellent performance characteristics.

Applications: Decoupling, blocking, bypassing and filtering in commercial computers, data processing, communications, and other electronic equipment. The low ESR/impedance at high frequencies offered by this capacitor is especially suitable for decoupling required by high speed computers. The ESR values provided are for reference only.

Specifications: Capacitance Tolerance (%): ±10 • Operating Temperature: -55°C ~ 85°C (125°C with voltage derating)

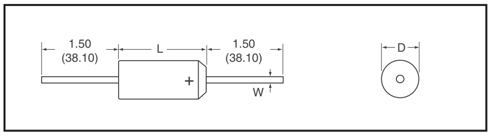

WV (DC)	Cap. (µF)	ESR Ω @ 100KHz @ +25°C	D.C. Leakage µA @ 25°C	Max. DF % @ 25°C 120Hz	Dimensions (mm)			Digi-Key Part No.	Price Each			Kemet Part No.
					D	L	W		1	10	100	
6.3	3.3	13	0.5	4	2.4	6.6	.51	399-1452-ND	.65	.56	.44	T322A335K006AS
10	6.8	6.0	0.5	6	2.8	7.4	.51	399-1468-ND	.71	.61	.48	T322B685K010AS
RoHS Compliant												
6.3	3.3	13	0.5	4	2.4	6.6	.51	399-4528-ND	.65	.56	.44	T322A335K006AT
	4.7	10	0.5	4	2.4	6.6	.51	399-4529-ND	.65	.56	.44	T322A475K006AT
	6.8	8.0	0.5	6	2.8	7.4	.51	399-4530-ND	.71	.61	.48	T322B685K006AT
	10	6.0	0.5	6	2.8	7.4	.51	399-4531-ND	.71	.61	.48	T322B106K006AT
	15	5.0	0.7	6	2.8	7.4	.51	399-4532-ND	.71	.61	.48	T322B156K006AT
	22	3.7	1.1	6	4.6	8.8	.51	399-4533-ND	1.36	1.17	.92	T322C226K006AT
	33	3.0	1.5	6	4.6	8.8	.51	399-4534-ND	1.36	1.17	.92	T322C336K006AT
	47	2.0	2.3	6	4.6	10.7	.51	399-4535-ND	1.52	1.31	1.02	T322D476K006AT
	68	1.8	3.3	6	4.6	10.7	.51	399-4536-ND	1.64	1.41	1.11	T322D686K006AT
	100	1.6	4.8	8	7.1	13.5	.64	399-4537-ND	4.14	3.55	2.78	T322E107K006AT
	150	0.9	5.0	8	7.1	13.5	.64	399-4538-ND	4.14	3.55	2.78	T322E157K006AT
	220	0.9	10.0	8	7.1	13.5	.64	399-4539-ND	5.51	4.73	3.70	T322E227K006AT
	330	0.7	10.0	8	7.6	18.0	.64	399-4540-ND	10.96	9.40	7.37	T322F337K006AT
10	2.2	13	0.5	4	2.4	6.6	.51	399-4541-ND	.65	.56	.44	T322A225K010AT
	3.3	10	0.5	4	2.4	6.6	.51	399-4542-ND	.65	.56	.44	T322A335K010AT
	4.7	8.0	0.5	4	2.8	7.4	.51	399-4543-ND	.71	.61	.48	T322B475K010AT
	6.8	6.0	0.5	6	2.8	7.4	.51	399-4544-ND	.71	.61	.48	T322B685K010AT
	10	5.0	0.8	6	2.8	7.4	.51	399-4545-ND	.71	.61	.48	T322B106K010AT
	22	2.7	1.5	6	4.6	8.8	.51	399-4547-ND	1.36	1.17	.92	T322C226K010AT
	33	2.1	2.6	6	4.6	10.7	.51	399-4548-ND	1.52	1.31	1.02	T322D336K010AT
	15	3.7	1.2	6	4.6	8.8	.51	399-4546-ND	1.36	1.17	.92	T322C156K010AT
	47	1.7	3.8	6	4.6	10.7	.51	399-4549-ND	1.64	1.41	1.11	T322D476K010AT
	68	1.3	5.0	6	7.1	13.5	.64	399-4550-ND	4.14	3.55	2.78	T322E686K010AT
	100	1.0	8.0	8	7.1	13.5	.64	399-4551-ND	4.14	3.55	2.78	T322E107K010AT
	150	0.8	10.0	8	7.1	13.5	.64	399-4552-ND	5.51	4.73	3.70	T322E157K010AT
	220	0.6	10.0	8	7.6	18.0	.64	399-4553-ND	10.96	9.40	7.37	T322F227K010AT
15	1.5	10	0.5	4	2.4	6.6	.51	399-4554-ND	.65	.56	.44	T322A155K015AT
	2.2	8.0	0.5	4	2.4	6.6	.51	399-4555-ND	.65	.56	.44	T322A255K015AT
	3.3	6.0	0.5	4	2.8	7.4	.51	399-4556-ND	.71	.61	.48	T322B335K015AT
	4.7	5.0	0.6	4	2.8	7.4	.51	399-4557-ND	.80	.69	.54	T322B475K015AT
	6.8	4.0	0.8	6	2.8	7.4	.51	399-4558-ND	.80	.69	.54	T322B685K015AT
	10	3.2	1.2	6	4.6	8.8	.51	399-4559-ND	1.36	1.17	.92	T322C106K015AT
	15	2.5	1.5	6	4.6	8.8	.51	399-4560-ND	1.36	1.17	.92	T322C156K015AT
	22	2.0	2.6	6	4.6	10.7	.51	399-4561-ND	1.52	1.31	1.02	T322D226K015AT
	33	1.6	4.0	6	4.6	10.7	.51	399-4562-ND	1.64	1.41	1.11	T322D336K015AT
	47	1.3	5.0	6	7.1	13.5	.64	399-4563-ND	4.14	3.55	2.78	T322E476K015AT
	56	1.3	6.7	6	7.1	13.5	.64	399-4564-ND	4.14	3.55	2.78	T322E566K015AT
	68	1.0	8.2	6	7.1	13.5	.64	399-4565-ND	4.14	3.55	2.78	T322E686K015AT
	100	0.8	10.0	8	7.1	13.5	.64	399-4566-ND	5.51	4.73	3.70	T322E107K015AT
	150	0.6	10.0	8	7.6	18.0	.64	399-4567-ND	10.96	9.40	7.37	T322F157K015AT
20	1.0	10	0.5	4	2.4	6.6	.51	399-4568-ND	.65	.56	.44	T322A105K020AT
	1.5	9.0	0.5	4	2.4	6.6	.51	399-4569-ND	.65	.56	.44	T322A155K020AT
	2.2	7.0	0.5	4	2.8	7.4	.51	399-4570-ND	.71	.61	.48	T322B225K020AT
	3.3	5.5	0.5	4	2.8	7.4	.51	399-4571-ND	.71	.61	.48	T322B335K020AT
	4.7	4.5	0.8	4	2.8	7.4	.51	399-4572-ND	.80	.69	.54	T322B475K020AT
20	10	2.9	1.6	6	4.6	8.8	.51	399-4573-ND	1.36	1.17	.92	T322C106K020AT
	15	2.3	2.4	6	4.6	10.7	.51	399-4574-ND	1.52	1.31	1.02	T322D156K020AT
	22	1.8	3.5	6	4.6	10.7	.51	399-4575-ND	1.64	1.41	1.11	T322D226K020AT
	33	1.4	5.0	6	7.1	13.5	.64	399-4576-ND	4.14	3.55	2.78	T322E336K020AT
	47	1.2	7.5	6	7.1	13.5	.64	399-4577-ND	4.14	3.55	2.78	T322E476K020AT
	68	0.9	10.0	6	7.1	13.5	.64	399-4578-ND	5.51	4.73	3.70	T322E686K020AT
	100	0.6	10.0	8	7.6	18.0	.64	399-4579-ND	10.96	9.40	7.37	T322F107K020AT
25	.47	16	0.5	3	2.4	6.6	.51	399-4580-ND	.65	.56	.44	T322A474K025AT
	.68	12	0.5	3	2.4	6.6	.51	399-4581-ND	.65	.56	.44	T322A684K025AT
	1.0	10	0.5	3	2.4	6.6	.51	399-4582-ND	.65	.56	.44	T322A105K025AT
	1.5	8.0	0.5	3	2.8	7.4	.51	399-4583-ND	.80	.69	.54	T322B155K025AT
	2.2	6.0	0.5	3	2.8	7.4	.51	399-4584-ND	.80	.69	.54	T322B225K025AT
	3.3	5.0	0.7	3	2.8	7.4	.51	399-4585-ND	.80	.69	.54	T322B335K025AT
	4.7	4.0	0.9	4	4.6	8.8	.51	399-4586-ND	1.36	1.17	.92	T322C475K025AT
	6.8	3.1	1.4	4	4.6	8.8	.51	399-4587-ND	1.36	1.17	.92	T322C685K025AT
	15	2.0	3.0	4	4.6	10.7	.51	399-4588-ND	1.64	1.41	1.11	T322D156K025AT
	22	1.5	4.4	6	7.1	13.5	.64	399-4589-ND	4.14	3.55	2.78	T322E226K025AT
	33	1.2	6.6	6	7.1	13.5	.64	399-4590-ND	4.14	3.55	2.78	T322E336K025AT
	47	1.0	9.4	6	7.1	13.5	.64	399-4591-ND	5.51	4.73	3.70	T322E476K025AT
	68	0.8	10.0	6	7.6	18.0	.64	399-4592-ND	10.96	9.40	7.37	T322F686K025AT
35	.10	26	0.5	3	2.4	6.6	.51	399-4593-ND	.65	.56	.44	T322A104K035AT
	.15	21	0.5	3	2.4	6.6	.51	399-4594-ND	.65	.56	.44	T322A154K035AT
	.22	17	0.5	3	2.4	6.6	.51	399-4595-ND	.65	.56	.44	T322A224K035AT
	.33	15	0.5	3	2.4	6.6	.51	399-4596-ND	.65	.56	.44	T322A334K035AT
	.47	13	0.5	3	2.4	6.6	.51	399-4597-ND	.65	.56	.44	T322A474K035AT
	.68	10	0.5	3	2.8	7.4	.51	399-4598-ND	.71	.61	.48	T322B684K035AT
	1.0	8.0	0.5	3	2.8	7.4	.51	399-4599-ND	.71	.61	.48	T322B105K035AT
	1.5	6.0	0.5	3	2.8	7.4	.51	399-4600-ND	.80	.69	.54	T322B155K035AT
	2.2	5.0	0.6	3	4.6	8.8	.51	399-4601-ND	1.36	1.17	.92	T322C225K035AT
	3.3	4.0	0.9	4	4.6	8.8	.51	399-4602-ND	1.36	1.17	.92	T322C335K035AT
	4.7	3.0	1.3	4	4.6	8.8	.51	399-4603-ND	1.36	1.17	.92	T322C475K035AT
	6.8	2.5	1.9	4	4.6	10.7	.51	399-4604-ND	1.52	1.31	1.02	T322D685K035AT
	10	2.0	2.8	4	4.6	10.7	.51	399-4605-ND	1.64	1.41	1.11	T322D106K035AT
	15	1.6	4.2	6	7.1	13.5	.64	399-4606-ND	4.14	3.55	2.78	T322E156K035AT
	22	1.3	6.2	6	7.1	13.5	.64	399-4607-ND	4.14	3.55	2.78	T322E226K035AT
	33	1.0	9.2	6	7.1	13.5	.64	399-4608-ND	5.51	4.73	3.70	T322E336K035AT
	47	0.8	10.0	6	7.6	18.0	.64	399-4609-ND	10.96	9.40	7.37	T322F476K035AT
50	.10	26	0.5	3	2.4	6.6	.51	399-4610-ND	.74	.63	.50	T322A104K050AT
	.15	21	0.5	3	2.4	6.6	.51	399-4611-ND	.74	.63	.50	T322A154K050AT
	.22	17	0.5	3	2.4	6.6	.51	399-4612-ND	.74	.63	.50	T322A224K050AT
	.33	15	0.5	3	2.8	7.4	.51	399-4613-ND	.87	.75	.59	T322B334K050AT
	.47	13	0.5	3	2.8	7.4	.51	399-4614-ND	.87	.75	.59	T322B474K050AT
	.68	10	0.5	3	2.8	7.4	.51	399-4615-ND	.87	.75	.59	T322B684K050AT
	1.0	8.0	0.5	3	2.8	7.4	.51	399-4616-ND	.96	.83	.65	T322B105K050AT
	1.5	5.0	0.6	4	4.6	8.8	.51	399-4617-ND	1.54	1.33	1.04	T322C155K050AT
	2.2	3.5	0.9	4	4.6	8.8	.51	399-4618-ND	1.54	1.33	1.04	T322C225K050AT
	3.3	3.0	1.3	4	4.6	10.7	.51	399-4619-ND	2.06	1.77	1.39	T322D335K050AT
	4.7	2.5	1.9	4	4.6	10.7	.51	399-4620-ND	2.06	1.77	1.39	T322D475K050AT
	6.8	2.0	2.7	4	7.1	13.5	.64	399-4621-ND	4.54	3.90	3.06	T322E685K050AT
	10	1.6	4.0	6	7.1	13.5	.64	399-4622-ND	4.54	3.90	3.06	T322E106K050AT
	15	1.2	6.0	6	7.6	18.0	.64	399-4623-ND	13.62	11.68	9.15	T322F156K050AT
	22	1.0	8.8	6	7.6	18.0	.64	399-4624-ND	13.62	11.68	9.15	T322F226K050AT

Surface Mount Tantalum Chip Capacitors

KEMET's family of solid tantalum chip capacitors are designed and manufactured with the requirements of surface mount technology in mind. These devices extend the advantages of solid tantalum technology to today's surface mount circuit applications.

Operating Temperature Range: -55°C ~ 125°C (T520 Series: -55°C ~ 105°C, T498 Series: 150°C, T499 Series: 175°C)

T491 Series — Industrial: The leading choice in surface mount designs. This product meets or exceeds the requirements of EIA standard 535BAAC. The physical outline and dimensions of this series conform to this global standard. This product was designed specifically for highly automated surface mount processes and equipment.

T494 Series — Low ESR, Industrial Grade: The T494 is a low ESR series that is available in all the same case sizes and CV ratings as the T491 Series. The T494 offers low ESR performance with the economy of an industrial grade device. This series is targeted for output filtering.

T495 Series — Low ESR, Surge Robust: Designed primarily for output filtering in switch-mode power supplies and DC-to-DC converters. The standard CV T495 values are an excellent choice for battery-to-ground input filter applications. This series offers several important advantages: Very low ESR, high ripple current capability, excellent capacitance stability and improved ability to withstand high inrush currents.

T496 Series — Fused: KEMET also offers a "fail-safe" fused solid tantalum chip capacitor. The built-in fuse element provides excellent protection from damaging short circuit conditions in applications where high fault currents exist. Protection from costly circuit damage due to reversed installation is offered with this device.

T498 Series — High Temperature (150°C): The T498 Series is a high temperature version of KEMET's solid tantalum chip family that offers optimal performance in applications with operating temperatures of up to 150°C. Advancements in materials and testing have allowed for the introduction of this series which delivers a reliability level of 0.5% per 1000 hours at rated voltage at rated temperature.

T499 Series — High Temperature (175°C): The T499 Series is a high temperature version of KEMET's solid tantalum chip family. This series is designed for use in applications with operating temperatures up to 175°C. This product offers the highest operating temperature capability in a surface mount tantalum device available in the market place.

T510 Series — Ultra-Low ESR: KEMET's T510 Series offers the industry's lowest ESR in the popular EIA 7343-43 case size. The ultra-low ESR and high ripple current capability make it an ideal choice for SMPS filtering and power decoupling. KEMET has developed an innovative construction platform that incorporates multiple capacitor elements, in parallel, inside a single package.

T520 Series — KO-CAP Polymer Tantalum: The KO-CAP is a tantalum capacitor, with Ta anode and Ta_2O_5 dielectric. A conductive, organic, polymer replaces the MnO_2 as the cathode plate of the capacitor. This results in very low ESR and improved cap retention at high frequency. The KO-CAP also exhibits a benign failure mode, which eliminates the ignition failures that can occur in standard MnO_2 tantalum types. KO-CAPs may be operated at voltages up to 80% of rated voltage with equivalent or better reliability than standard tantalums operated at 50% of rated voltage.

The T520 series captures the best features of multilayer ceramic caps (low ESR and high frequency cap retention), aluminum electrolytics (benign failure mode), and proven solid tantalum technology (volumetric efficiency, surface mount capability, and no wear out mechanism).

The KO-CAP can reduce component counts, eliminate through-hole assembly by replacing leaded aluminum capacitors, and offer a more cost effective solution to high-cost high-cap ceramic capacitors.

T525 Series — KO-CAP Polymer Tantalum: The T525 has been targeted for power management applications. This series offers all of the same advantages as the T520 KO-CAP including very low ESR, improved capacitance retention at high frequency and a benign failure mode, to go along with 125°C capability.

T528 Series — Face Down Termination Tantalum: The T528 is an organic tantalum chip capacitor with face down termination, that features Low ESL and has a wide tolerance range of ±20%.

T530 Series — KO-MAT Polymer Tantalum: The KO-MAT is an extremely low-ESR, volumetrically efficient, organic tantalum chip capacitor that offers high capacitance retention while preventing thermal events (ignition failures).

Organic polymer does not give up oxygen if the dielectric fails short, thus preventing ignition. Organic polymer is more conductive than MnO_2 — lower ESR.

Higher capacitance retention at higher frequencies means fewer parts are required to achieve the desired capacitance.

The KO-MAT allows tantalum capacitors to be used in circuits never considered possible before, such as input filters. Initial focus is for power supplies and microprocessor circuits.

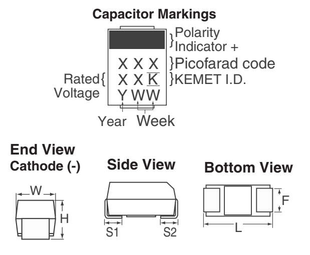

T528 Series Only

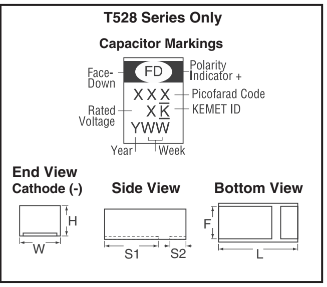

Size Code	EIA Code	Dimensions - mm					
		L	W	H	F±0.1	S1±0.3	S2±0.3
A	3216-18	3.2±0.2	1.6±0.2	1.6±0.2	1.2	0.8	0.8
B	3528-21	3.5±0.2	2.8±0.2	1.9±0.2 (T495 Series: ±0.1)	2.2	0.8	0.8
C	6032-28	6.0±0.3	3.2±0.3	2.5±0.3	2.2	1.3	1.3
D	7343-31	7.3±0.3	4.3±0.3	2.8±0.3	2.4	1.3	1.3
E	7260-38	7.3±0.3	6.0±0.3	3.6±0.2	4.1	1.3	1.3
I	3216-10	3.2±0.2	1.3±0.2	1.0	1.2 Max.	1.0±0.2	0.7±0.2
L	6032-19	6.0±0.3	3.2±0.3	1.9 Max.	2.2	1.3	1.3
M	3528-15	3.5±0.2	2.8±0.2	1.5 Max.	2.0	1.2	0.6
R	2012-12	2.0±0.2	1.3±0.2	1.2 Max.	0.9	0.5	0.5
T	3528-12	3.5±0.2	2.8±0.2	1.2 Max.	2.2	0.8	0.8
U	6032-15	6.0±0.3	3.2±0.3	1.5 Max.	2.2	1.3	1.3
V	7343-20	7.3±0.3	4.3±0.3	2.0 Max. (T520 Series: 1.9 Max.)	2.4	1.3	1.3
W	7343-15	7.3±0.3	4.3±0.3	1.5 Max.	2.4	1.3	1.3
X	7343-43	7.3±0.3	4.3±0.3	4.0±0.3	2.4	1.3	1.3
Y	7343-40	7.3±0.3	4.3±0.3	4.0 Max.	2.4	1.3	1.3
Z	7343-17	7.3±0.4	4.3±0.3	1.7 Max.	2.8	5.1±0.2	1.3±0.2

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Qty.	Pricing	
T491 Series, Industrial														
4	68	±10	2.7	6	0.8	D	399-1549-1-ND	.65	.57	.50	—	—	—	T491D686K004AS
	150	±20	6	12	2.0	B	399-3340-1-ND	.93	.81	.71	—	—	—	T491B157M004AS
25	6.8	±20	1.7	6	1.9	C	399-1632-1-ND	.39	.35	.30	—	—	—	T491C685M025AS
T491 Series, Industrial — RoHS Compliant														
2.5	220	±10	5.5	8	0.3	D	399-4771-1-ND	4.34	4.20	3.67	399-4771-2-ND	500	878.00	T491D227K2R5AT
4	33	±10	1.3	8	5.0	T	399-5172-1-ND ***NEW!***	1.50	1.31	1.14	399-5172-2-ND ***NEW!***	2,500	510.00/M	T491T336K004ZT
	47	±10	1.9	12	6.0	T	399-5173-1-ND ***NEW!***	1.58	1.37	1.20	399-5173-2-ND ***NEW!***	2,500	536.00/M	T491T476K004ZT
	68	±10	2.8	30	4.0	A	399-3701-1-ND	.50	.44	.38	399-3701-2-ND	2,000	170.00/M	T491A686K004AT
	68	±10	2.7	6	0.8	D	399-3801-1-ND	.65	.57	.50	399-3801-2-ND	500	118.00	T491D686K004AT
	100	±20	4	30	4.0	A	399-3688-1-ND	.48	.42	.37	399-3688-2-ND	2,000	162.00/M	T491A107M004AT
	100	±20	4	8	1.0	B	399-3709-1-ND	.93	.81	.71	399-3709-2-ND	2,000	315.00/M	T491B107M004AT
	100	±20	4	8	0.8	D	399-3771-1-ND	.65	.57	.50	399-3771-2-ND	500	118.00	T491D107M004AT
	100	±20	4	30	5.0	T	399-3337-1-ND	1.60	1.39	1.22	399-3337-2-ND	2,500	542.00/M	T491T107M004AT
	150	±20	6	12	2.0	B	399-3713-1-ND	.93	.81	.71	399-3713-2-ND	2,000	315.00/M	T491B157M004AT
	220	±20	8.8	18	0.5	B	399-4625-1-ND	.83	.81	.71	399-4625-2-ND	2,000	315.00/M	T491B227M004AT
	330	±10	13.2	10	1.2	C	399-3751-1-ND	2.00	1.74	1.52	399-3751-2-ND	500	364.00	T491C337K004AT
6.3	10	±10	0.6	6	4.0	A	399-3683-1-ND	.20	.18	.16	399-3683-2-ND	2,000	68.00/M	T491A106K006AT
	10	±20	0.6	6	4.0	A	399-3685-1-ND	.20	.18	.16	399-3685-2-ND	2,000	68.00/M	T491A106M006AT
	10	±10	0.6	6	3.5	B	399-3704-1-ND	.28	.25	.22	399-3704-2-ND	2,000	96.00/M	T491B106K006AT
	15	±10	0.9	6	5.0	T	399-5170-1-ND ***NEW!***	1.45	1.27	1.11	399-5170-2-ND ***NEW!***	2,500	493.00/M	T491T156K006ZT
	22	±10	1.4	6	3.5	B	399-3716-1-ND	.30	.26	.23	399-3716-2-ND	2,000	100.00/M	T491B226K006AT
	22	±10	1.4	6	1.8	C	399-3742-1-ND	.39	.35	.30	399-3742-2-ND	500	71.50	T491C226K006AT
	47	±20	3	12	3.5	A	399-3700-1-ND	.48	.42	.37	399-3700-2-ND	2,000	162.00/M	T491A476M006AT
	47	±10	2.9	6	1.6	C	399-3756-1-ND	.43	.38	.33	399-3756-2-ND	500	77.50	T491C476K006AT
	68	±20	4.1	8	1.0	B	399-3729-1-ND	.93	.81	.71	399-3729-2-ND	2,000	315.00/M	T491B686M006AT
	68	±10	4.1	6	1.2	C	399-3764-1-ND	.52	.46	.40	399-3764-2-ND	500	94.50	T491C686K006AT
	68	±10	4.1	6	0.8	D	399-3802-1-ND	.65	.57	.50	399-3802-2-ND	500	118.00	T491D686K006AT
	68	±10	5	30	4.0	A	399-4698-1-ND	.48	.42	.37	399-4698-2-ND	2,000	162.00/M	T491A686K006AT
	100	±20	6.3	15	3.0	B	399-3710-1-ND	.93	.81	.71	399-3710-2-ND	2,000	315.00/M	T491B107M006AT
	100	±10	6.3	20	1.0	M	399-5155-1-ND	1.36	1.18	1.04	399-5155-2-ND	2,000	461.00/M	T491M107K006ZT
	100	±20	6.3	20	1.0	M	399-5156-1-ND	1.36	1.18	1.04	399-5156-2-ND	2,000	461.00/M	T491M107M006ZT
	150	±10	10	8	1.0	U	399-5174-1-ND ***NEW!***	1.45	1.27	1.11	399-5174-2-ND ***NEW!***	1,250	493.00/M	T491U157K006ZT
	220	±20	13.2	10	1.2	C	399-3748-1-ND	1.95	1.70	1.49	399-3748-2-ND	500	355.00	T491C227M006AT
	470	±10	29.6	10	0.4	E	399-4626-1-ND	9.00	8.70	7.60	399-4626-2-ND	500	1820.00	T491E477K006AT
	470	±20	28.2	12	0.5	D	399-3798-1-ND	4.63	4.03	3.52	399-3798-2-ND	500	842.00	T491D477M006AT
	680	±20	40.8	12	0.5	E	399-3805-1-ND	9.50	8.27	7.22	399-3805-2-ND	500	1729.00	T491E687M006AT
	1000	±10	63	20	0.6	X	399-5123-1-ND	6.65	5.79	5.06	399-5123-2-ND	400	968.40	T491X108K006ZT
10	2.2	±10	0.5	6	8.0	A	399-3690-1-ND	.19	.17	.15	399-3690-2-ND	2,000	65.00/M	T491A225K010AT
	3.3	±10	0.5	6	6.0	A	399-3694-1-ND	.19	.17	.15	399-3694-2-ND	2,000	65.00/M	T491A335K010AT
	3.3	±10	0.3	8	15.0	R	399-3807-1-ND	1.16	1.01	.89	399-3807-2-ND	2,500	394.00/M	T491R335K010AT
	4.7	±10	0.5	6	6.0	A	399-3696-1-ND	.19	.17	.15	399-3696-2-ND	2,000	65.00/M	T491A475K010AT
	4.7	±20	0.5	6	6.0	A	399-3698-1-ND	.19	.17	.15	399-3698-2-ND	2,000	65.00/M	T491A475M010AT
	4.7	±10	0.5	6	3.5	B	399-3721-1-ND	.28	.25	.22	399-3721-2-ND	2,000	96.00/M	T491B475K010AT
	4.7	±20	0.5	6	3.5	B	399-3724-1-ND	.28	.25	.22	399-3724-2-ND	2,000	96.00/M	T491B475M010AT
	6.8	±10	0.7	6	3.5	B	399-3727-1-ND	.28	.25	.22	399-3727-2-ND	2,000	96.00/M	T491B685K010AT
	10	±10	1	6	4.0	A	399-3684-1-ND	.22	.19	.17	399-3684-2-ND	2,000	74.00/M	T491A106K010AT
	10	±20	1	6	4.0	A	399-3686-1-ND	.22	.19	.17	399-3686-2-ND	2,000	74.00/M	T491A106M010AT
	10	±10	1	6	3.5	B	399-3705-1-ND	.28	.25	.22	399-3705-2-ND	2,000	96.00/M	T491B106K010AT
	10	±20	1	6	3.5	B	399-3707-1-ND	.28	.25	.22	399-3707-2-ND	2,000	96.00/M	T491B106M010AT
	10	±10	1	6	1.8	C	399-3731-1-ND	.39	.35	.30	399-3731-2-ND	500	71.50	T491C106K010AT

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

Surface Mount Tantalum Chip Capacitors *(Cont.)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Qty.	Pricing	
10	15	±10	1.5	8	5.0	T	399-5171-1-ND ***NEW!***	1.50	1.31	1.14	399-5171-2-ND ***NEW!***	2,500	510.00/M	T491T156K010ZT
	15	±10	1.5	6	3.5	B	399-3712-1-ND	.30	.26	.23	399-3712-2-ND	2,000	100.00/M	T491B156K010AT
	15	±10	1.5	6	1.8	C	399-3737-1-ND	.39	.35	.30	399-3737-2-ND	500	71.50	T491C156K010AT
	22	±20	2.2	10	6.0	A	399-3692-1-ND	.48	.42	.37	399-3692-2-ND	2,000	162.00/M	T491A226M010AT
	22	±10	2.2	6	1.8	C	399-3743-1-ND	.39	.35	.30	399-3743-2-ND	500	71.50	T491C226K010AT
	33	±10	3.3	6	0.8	D	399-3786-1-ND	.65	.57	.50	399-3786-2-ND	500	118.00	T491D336K010AT
	47	±20	4.7	8	1.0	B	399-3726-1-ND	.93	.81	.71	399-3726-2-ND	2,000	315.00/M	T491B476M010AT
	47	±10	4.7	6	1.2	C	399-3757-1-ND	.52	.46	.40	399-3757-2-ND	500	94.50	T491C476K010AT
	47	±20	4.7	6	1.2	C	399-3758-1-ND	.52	.46	.40	399-3758-2-ND	500	94.50	T491C476M010AT
	47	±10	4.7	6	0.8	D	399-3793-1-ND	.65	.57	.50	399-3793-2-ND	500	118.00	T491D476K010AT
	47	±20	4.7	6	0.8	D	399-3796-1-ND	.65	.57	.50	399-3796-2-ND	500	118.00	T491D476M010AT
	100	±10	10	8	0.7	D	399-3769-1-ND	.78	.68	.60	399-3769-2-ND	500	142.00	T491D107K010AT
	100	±20	10	8	0.7	D	399-3772-1-ND	.78	.68	.60	399-3772-2-ND	500	142.00	T491D107M010AT
	150	±10	15	10	1.2	C	399-3738-1-ND	2.00	1.74	1.52	399-3738-2-ND	500	364.00	T491C157K010AT
	150	±20	15	8	0.7	D	399-3778-1-ND	1.00	.88	.77	399-3778-2-ND	500	182.00	T491D157M010AT
	220	±10	22	8	0.5	X	399-3818-1-ND	2.22	1.93	1.69	399-3818-2-ND	500	403.50	T491X227K010AT
	220	±20	22	10	0.9	C	399-5168-1-ND ***NEW!***	1.30	1.14	.99	399-5168-2-ND ***NEW!***	750	354.75	T491C227M010ZT
	330	±10	33	10	0.5	E	399-4627-1-ND	9.00	8.70	7.60	399-4627-2-ND	500	1820.00	T491E337K010AT
	330	±20	33	10	0.5	D	399-3790-1-ND	4.63	4.03	3.52	399-3790-2-ND	500	842.00	T491D337M010AT
	470	±20	47	12	0.5	E	399-3804-1-ND	9.50	8.27	7.22	399-3804-2-ND	500	1729.00	T491E477M010AT
16	1.0	±10	0.5	4	10.0	A	399-3678-1-ND	.19	.17	.15	399-3678-2-ND	2,000	65.00/M	T491A105K016AT
	1.0	±20	0.5	4	10.0	A	399-3681-1-ND	.19	.17	.15	399-3681-2-ND	2,000	65.00/M	T491A105M016AT
	1.5	±10	0.5	6	8.0	A	399-3689-1-ND	.19	.17	.15	399-3689-2-ND	2,000	65.00/M	T491A155K016AT
	2.2	±10	0.5	6	6.0	A	399-3691-1-ND	.19	.17	.15	399-3691-2-ND	2,000	65.00/M	T491A225K016AT
	3.3	±10	0.5	6	3.5	B	399-3719-1-ND	.28	.25	.22	399-3719-2-ND	2,000	96.00/M	T491B335K016AT
	4.7	±10	0.8	6	6.0	A	399-3697-1-ND	.20	.18	.16	399-3697-2-ND	2,000	68.00/M	T491A475K016AT
	4.7	±20	0.8	6	6.0	A	399-3699-1-ND	.20	.18	.16	399-3699-2-ND	2,000	68.00/M	T491A475M016AT
	4.7	±10	0.8	6	3.5	B	399-3722-1-ND	.28	.25	.22	399-3722-2-ND	2,000	96.00/M	T491B475K016AT
	4.7	±20	0.8	6	3.5	B	399-3725-1-ND	.28	.25	.22	399-3725-2-ND	2,000	96.00/M	T491B475M016AT
	6.8	±20	1.1	6	1.9	C	399-3761-1-ND	.39	.35	.30	399-3761-2-ND	500	71.50	T491C685M016AT
	10	±20	1.6	10	7.0	A	399-3687-1-ND	.24	.21	.18	399-3687-2-ND	2,000	80.00/M	T491A106M016AT
	10	±10	1.6	6	3.5	B	399-3706-1-ND	.30	.26	.23	399-3706-2-ND	2,000	100.00/M	T491B106K016AT
	10	±20	1.6	6	3.5	B	399-3708-1-ND	.30	.26	.23	399-3708-2-ND	2,000	100.00/M	T491B106M016AT
	10	±10	1.6	6	1.8	C	399-3732-1-ND	.39	.35	.30	399-3732-2-ND	500	71.50	T491C106K016AT
	10	±20	1.6	6	1.8	C	399-3735-1-ND	.39	.35	.30	399-3735-2-ND	500	71.50	T491C106M016AT
	22	±20	3.5	6	2.2	B	399-3717-1-ND	.53	.47	.41	399-3717-2-ND	2,000	182.00/M	T491B226M016AT
	22	±10	3.6	6	1.6	C	399-3744-1-ND	.43	.38	.33	399-3744-2-ND	500	77.50	T491C226K016AT
	22	±20	3.6	6	1.6	C	399-3747-1-ND	.43	.38	.33	399-3747-2-ND	500	77.50	T491C226M016AT
	22	±10	3.6	6	0.8	D	399-3780-1-ND	.65	.57	.50	399-3780-2-ND	500	118.00	T491D226K016AT
	33	±10	5.3	6	1.2	C	399-3750-1-ND	.52	.46	.40	399-3750-2-ND	500	94.50	T491C336K016AT
	33	±10	5.3	6	0.8	D	399-3787-1-ND	.65	.57	.50	399-3787-2-ND	500	118.00	T491D336K016AT
	33	±20	5.3	6	0.8	D	399-3789-1-ND	.65	.57	.50	399-3789-2-ND	500	118.00	T491D336M016AT
	47	±10	7.5	6	0.8	D	399-3794-1-ND	.65	.57	.50	399-3794-2-ND	500	118.00	T491D476K016AT
	100	±10	16	10	1.0	C	399-5214-1-ND ***NEW!***	.80	.70	.61	399-5214-2-ND ***NEW!***	750	218.25	T491C107K016ZT
	100	±10	16	8	0.7	D	399-3770-1-ND	1.00	.88	.77	399-3770-2-ND	500	182.00	T491D107K016AT
	100	±20	16	8	0.7	D	399-3773-1-ND	1.00	.88	.77	399-3773-2-ND	500	182.00	T491D107M016AT
	100	±10	16	12	0.7	V	399-3809-1-ND	3.40	2.96	2.59	399-3809-2-ND	1,000	1156.00	T491V107K016AT
	100	±10	16	8	0.7	X	399-3811-1-ND	1.82	1.58	1.38	399-3811-2-ND	500	330.50	T491X107K016AT
	100	±20	16	8	0.7	X	399-3812-1-ND	1.82	1.58	1.38	399-3812-2-ND	500	330.50	T491X107M016AT
	150	±10	24	12	0.7	D	399-3777-1-ND	1.39	1.21	1.06	399-3777-2-ND	500	252.50	T491D157K016AT
	150	±10	24	8	0.5	X	399-3815-1-ND	2.22	1.93	1.69	399-3815-2-ND	500	403.50	T491X157K016AT
	220	±10	35.2	7.2	0.9	E	399-4962-1-ND	10.00	8.70	7.60	399-4962-2-ND	500	1820.00	T491E227K016AT
	220	±10	35.2	15	0.9	D	399-5124-1-ND	2.10	1.83	1.60	399-5124-2-ND	750	573.00	T491D227K016ZT
20	1.0	±10	0.5	4	10.0	A	399-3679-1-ND	.19	.17	.15	399-3679-2-ND	2,000	65.00/M	T491A105K020AT
	1.0	±20	0.5	4	10.0	A	399-3682-1-ND	.19	.17	.15	399-3682-2-ND	2,000	65.00/M	T491A105M020AT
	2.2	±10	0.5	6	3.5	B	399-3714-1-ND	.28	.25	.22	399-3714-2-ND	2,000	96.00/M	T491B225K020AT
	4.7	±10	1	6	3.5	B	399-3723-1-ND	.28	.25	.22	399-3723-2-ND	2,000	96.00/M	T491B475K020AT
	6.8	±10	1.4	6	1.9	C	399-3759-1-ND	.39	.35	.30	399-3759-2-ND	500	71.50	T491C685K020AT
	6.8	±20	1.4	8	6.0	A	399-4628-1-ND	.24	.21	.18	399-4628-2-ND	2,000	80.00/M	T491A685M020AT
	10	±20	2	10	5.0	A	399-5152-1-ND	.48	.42	.37	399-5152-2-ND	2,000	162.00/M	T491A106M020AT
	10	±10	2	6	1.8	C	399-3733-1-ND	.39	.35	.30	399-3733-2-ND	500	71.50	T491C106K020AT
	15	±10	3	6	2.5	B	399-5213-1-ND ***NEW!***	.45	.40	.35	399-5213-2-ND ***NEW!***	2,000	153.00/M	T491B156K020ZT
	22	±10	4.4	6	1.2	C	399-3745-1-ND	.52	.46	.40	399-3745-2-ND	500	94.50	T491C226K020AT
	22	±10	4.4	6	0.8	D	399-3781-1-ND	.65	.57	.50	399-3781-2-ND	500	118.00	T491D226K020AT
	22	±20	4.4	6	0.8	D	399-3783-1-ND	.65	.57	.50	399-3783-2-ND	500	118.00	T491D226M020AT
	33	±10	6.6	6	0.8	D	399-3788-1-ND	.65	.57	.50	399-3788-2-ND	500	118.00	T491D336K020AT
	47	±10	9.4	6	0.9	C	399-5215-1-ND ***NEW!***	2.00	1.74	1.52	399-5215-2-ND ***NEW!***	750	546.00	T491C476K020ZT
	47	±10	9.4	6	0.7	D	399-3795-1-ND	.78	.68	.60	399-3795-2-ND	500	142.00	T491D476K020AT
	68	±10	13.6	8	0.7	D	399-3803-1-ND	1.39	1.21	1.06	399-3803-2-ND	500	252.50	T491D686K020AT
	68	±10	13.6	6	0.7	X	399-3822-1-ND	1.82	1.58	1.38	399-3822-2-ND	500	330.50	T491X686K020AT
	100	±10	20	8	0.5	E	399-4629-1-ND	9.00	8.70	7.60	399-4629-2-ND	500	1820.00	T491E107K020AT
	100	±20	20	8	0.5	X	399-3813-1-ND	2.22	1.93	1.69	399-3813-2-ND	500	403.50	T491X107M020AT
	150	±10	30	10	0.5	X	399-4794-1-ND	2.62	2.29	2.00	399-4794-2-ND	500	477.50	T491X157K020AT
25	0.47	±10	0.5	4	14.0	A	399-3695-1-ND	.19	.17	.15	399-3695-2-ND	2,000	65.00/M	T491A474K025AT
	1.0	±10	0.5	4	8.0	A	399-3680-1-ND	.20	.18	.16	399-3680-2-ND	2,000	68.00/M	T491A105K025AT
	1.5	±10	0.5	6	5.0	B	399-3711-1-ND	.28	.25	.22	399-3711-2-ND	2,000	96.00/M	T491B155K025AT
	2.2	±10	0.6	6	4.5	B	399-3715-1-ND	.30	.26	.23	399-3715-2-ND	2,000	100.00/M	T491B225K025AT
	2.2	±10	0.6	6	3.5	C	399-3739-1-ND	.39	.35	.30	399-3739-2-ND	500	71.50	T491C225K025AT
	2.2	±20	0.6	6	3.5	C	399-3741-1-ND	.39	.35	.30	399-3741-2-ND	500	71.50	T491C225M025AT
	4.7	±10	1.2	6	2.4	C	399-3753-1-ND	.39	.35	.30	399-3753-2-ND	500	71.50	T491C475K025AT
	4.7	±20	1.2	6	2.4	C	399-3755-1-ND	.39	.35	.30	399-3755-2-ND	500	71.50	T491C475M025AT
	4.7	±20	1.2	8	6.0	A	399-4630-1-ND	.24	.21	.18	399-4630-2-ND	2,000	80.00/M	T491A475M025AT
	6.8	±10	1.7	8	3.0	B	399-3728-1-ND	.53	.47	.41	399-3728-2-ND	2,000	182.00/M	T491B685K025AT
	6.8	±10	1.7	6	1.9	C	399-3760-1-ND	.39	.35	.30	399-3760-2-ND	500	71.50	T491C685K025AT
	6.8	±20	1.7	6	1.9	C	399-3762-1-ND	.39	.35	.30	399-3762-2-ND	500	71.50	T491C685M025AT
	10	±10	2.5	6	1.5	C	399-3734-1-ND	.43	.38	.33	399-3734-2-ND	500	77.50	T491C106K025AT
	10	±10	2.5	8	3.0	B	399-5125-1-ND	.98	.85	.75	399-5125-2-ND	2,000	332.00/M	T491B106K025AT
	10	±20	2.5	6	1.5	C	399-3736-1-ND	.43	.38	.33	399-3736-2-ND	500	77.50	T491C106M025AT
	10	±10	2.5	6	1.0	D	399-3765-1-ND	.65	.57	.50	399-3765-2-ND	500	118.00	T491D106K025AT
	10	±20	2.5	6	1.0	D	399-3767-1-ND	.65	.57	.50	399-3767-2-ND	500	118.00	T491D106M025AT
	15	±10	3.8	6	1.0	D	399-3774-1-ND	.65	.57	.50	399-3774-2-ND	500	118.00	T491D156K025AT
	15	±20	3.8	6	1.0	D	399-3776-1-ND	.65	.57	.50	399-3776-2-ND	500	118.00	T491D156M025AT
	22	±10	5.5	6	1.4	C	399-5153-1-ND	.68	.60	.53	399-5153-2-ND	750	186.75	T491C226K025ZTZ154
	22	±20	5.5	6	1.4	C	399-5154-1-ND	1.68	1.47	1.29	399-5154-2-ND	750	459.75	T491C226M025ZTZ154
	22	±10	5.5	8	1.5	C	399-3746-1-ND	.68	.60	.53	399-3746-2-ND	500	124.50	T491C226K025AT
	22	±10	5.5	6	0.8	D	399-3782-1-ND	.65	.57	.50	399-3782-2-ND	500	118.00	T491D226K025AT
	22	±20	5.5	6	0.8	D	399-3784-1-ND	.65	.57	.50	399-3784-2-ND	500	118.00	T491D226M025AT
	33	±10	8.3	6	0.7	X	399-3819-1-ND	1.82	1.58	1.38	399-3819-2-ND	500	330.50	T491X336K025AT
	33	±20	8.3	6	0.7	X	399-3820-1-ND	1.82	1.58	1.38	399-3820-2-ND	500	330.50	T491X336M025AT
	47	±20	11.8	10	0.7	D	399-3797-1-ND	1.39	1.21	1.06	399-3797-2-ND	500	252.50	T491D476M025AT
	68	±20	17	8	0.7	X	399-3823-1-ND	2.22	1.93	1.69	399-3823-2-ND	500	403.50	T491X686M025AT
	100	±10	25	8	0.3	X	399-5175-1-ND ***NEW!***	2.62	2.29	2.00	399-5175-2-ND ***NEW!***	400	382.00	T491X107K025ZT

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Qty.	Pricing	
35	0.10	±10	0.5	4	10.0	A	399-3676-1-ND	.19	.17	.15	399-3676-2-ND	2,000	65.00/M	T491A104K035AT
	0.10	±20	0.5	4	10.0	A	399-3677-1-ND	.19	.17	.15	399-3677-2-ND	2,000	65.00/M	T491A104M035AT
	0.33	±10	0.5	4	15.0	A	399-3693-1-ND	.19	.17	.15	399-3693-2-ND	2,000	65.00/M	T491A334K035AT
	1.0	±10	0.5	4	5.0	B	399-3702-1-ND	.28	.25	.22	399-3702-2-ND	2,000	96.00/M	T491B105K035AT
	1.0	±20	0.5	4	5.0	B	399-3703-1-ND	.28	.25	.22	399-3703-2-ND	2,000	96.00/M	T491B105M035AT
	2.2	±10	0.8	6	3.5	C	399-3740-1-ND	.39	.35	.30	399-3740-2-ND	500	71.50	T491C225K035AT
	3.3	±20	1.2	6	3.5	B	399-3720-1-ND	.53	.47	.41	399-3720-2-ND	2,000	182.00/M	T491B335M035AT
	3.3	±20	1.2	6	2.5	C	399-3749-1-ND	.39	.35	.30	399-3749-2-ND	500	71.50	T491C335M035AT
	4.7	±10	1.7	6	2.5	C	399-3754-1-ND	.43	.38	.33	399-3754-2-ND	500	77.50	T491C475K035AT
	4.7	±10	1.7	6	1.5	D	399-3791-1-ND	.65	.57	.50	399-3791-2-ND	500	118.00	T491D475K035AT
	6.8	±20	2.4	6	2.0	C	399-3763-1-ND	.52	.46	.40	399-3763-2-ND	500	94.50	T491C685M035AT
	6.8	±10	2.4	6	1.3	D	399-3799-1-ND	.65	.57	.50	399-3799-2-ND	500	118.00	T491D685K035AT
	10	±10	3.5	6	1.0	D	399-3766-1-ND	.65	.57	.50	399-3766-2-ND	500	118.00	T491D106K035AT
	10	±20	3.5	6	1.0	D	399-3768-1-ND	.65	.57	.50	399-3768-2-ND	500	118.00	T491D106M035AT
	15	±10	5.3	6	0.8	D	399-3775-1-ND	.78	.68	.60	399-3775-2-ND	500	142.00	T491D156K035AT
	15	±10	5.3	6	0.9	X	399-3814-1-ND	1.82	1.58	1.38	399-3814-2-ND	500	330.50	T491X156K035AT
	22	±10	7.7	6	0.7	X	399-3816-1-ND	1.82	1.58	1.38	399-3816-2-ND	500	330.50	T491X226K035AT
	22	±20	7.7	6	0.7	X	399-3817-1-ND	1.82	1.58	1.38	399-3817-2-ND	500	330.50	T491X226M035AT
	33	±10	11.6	6	0.9	D	399-5169-1-ND ***NEW!***	4.83	4.20	3.67	399-5169-2-ND ***NEW!***	500	878.00	T491D336K035AT
	47	±10	16.5	8	0.6	X	399-3821-1-ND	2.62	2.29	2.00	399-3821-2-ND	500	477.50	T491X476K035AT
50	0.33	±20	0.5	4	10.0	B	399-3718-1-ND	.34	.30	.26	399-3718-2-ND	2,000	116.00/M	T491B334M050AT
	0.47	±10	0.5	4	8.0	C	399-3752-1-ND	.49	.43	.37	399-3752-2-ND	500	88.50	T491C474K050AT
	1.0	±10	0.5	4	5.5	C	399-3730-1-ND	.49	.43	.37	399-3730-2-ND	500	88.50	T491C105K050AT
	2.2	±10	1.1	6	2.5	D	399-3779-1-ND	.80	.70	.61	399-3779-2-ND	500	145.00	T491D225K050AT
	3.3	±20	1.7	6	2.0	D	399-3785-1-ND	.80	.70	.61	399-3785-2-ND	500	145.00	T491D335M050AT
	4.7	±10	2.4	6	1.5	D	399-3792-1-ND	.80	.70	.61	399-3792-2-ND	500	145.00	T491D475K050AT
	6.8	±20	3.4	6	1.0	D	399-3800-1-ND	.96	.84	.74	399-3800-2-ND	500	175.00	T491D685M050AT
T494 Series, Low ESR, Industrial Grade														
4	68	±10	2.8	30	3.0	A	399-3343-1-ND	.85	.74	.65	—	—	—	T494A686K004AS
	150	±20	6	12	1.0	B	399-3345-1-ND	1.39	1.21	1.06	—	—	—	T494B157M004AS
	330	±10	13.2	10	0.9	C	399-3310-1-ND	2.60	2.27	1.98	399-3310-2-ND	500	473.20	T494C337K004AS
6.3	6.8	±10	0.5	8	10.0	R	399-3233-1-ND	1.45	1.27	1.11	—	—	—	T494R685K006AS
T494 Series, Low ESR, Industrial Grade — RoHS Compliant														
2.5	220	±10	5.5	8	0.2	D	399-4772-1-ND	7.82	7.56	6.61	399-4772-2-ND	500	1580.50	T494D227K2R5AT
4	68	±10	2.8	30	3.0	A	399-3829-1-ND	.85	.74	.65	399-3829-2-ND	2,000	289.00/M	T494A686K004AT
	100	±20	4	30	3.0	A	399-3825-1-ND	.83	.72	.63	399-3825-2-ND	2,000	281.00/M	T494A107M004AT
	100	±20	4	8	1.0	B	399-3832-1-ND	1.39	1.21	1.06	399-3832-2-ND	2,000	473.00/M	T494B107M004AT
	100	±20	4	30	4.5	T	399-3342-1-ND	1.99	1.73	1.52	399-3342-2-ND	2,500	676.00/M	T494T107M004AT
	150	±20	6	12	1.0	B	399-3834-1-ND	1.39	1.21	1.06	399-3834-2-ND	2,000	473.00/M	T494B157M004AT
	220	±20	8.8	8	0.4	B	399-4631-1-ND	1.25	1.21	1.06	399-4631-2-ND	2,000	473.00/M	T494B227M004AT
	330	±10	13.2	10	0.9	C	399-3849-1-ND	2.60	2.27	1.98	399-3849-2-ND	500	473.00	T494C337K004AT
6.3	47	±20	3	12	2.5	A	399-3828-1-ND	.83	.72	.63	399-3828-2-ND	2,000	281.00/M	T494A476M006AT
	68	±20	4.1	8	1.0	B	399-3841-1-ND	1.39	1.21	1.06	399-3841-2-ND	2,000	473.00/M	T494B686M006AT
	68	±10	5	30	3.0	A	399-4699-1-ND	.83	.72	.63	399-4699-2-ND	2,000	281.00/M	T494A686K006AT
	100	±20	6.3	15	1.5	B	399-3833-1-ND	1.39	1.21	1.06	399-3833-2-ND	2,000	473.00/M	T494B107M006AT
	220	±20	13.2	10	0.3	C	399-3848-1-ND	2.54	2.21	1.93	399-3848-2-ND	500	461.50	T494C227M006AT
	470	±10	29.6	10	0.2	E	399-4632-1-ND	12.83	12.40	10.83	399-4632-2-ND	500	2593.50	T494E477K006AT
	470	±20	28.2	12	0.5	D	399-3861-1-ND	8.20	7.14	6.24	399-3861-2-ND	500	1492.50	T494D477M006AT
10	2.2	±10	0.5	6	6.0	A	399-3826-1-ND	.60	.53	.46	399-3826-2-ND	2,000	204.00/M	T494A225K010AT
	3.3	±10	0.3	8	10.0	R	399-3864-1-ND	1.45	1.27	1.11	—	—	—	T494R335K010AT
	4.7	±10	0.5	6	1.5	B	399-3838-1-ND	.83	.72	.63	399-3838-2-ND	2,000	281.00/M	T494B475K010AT
	10	±20	1	6	0.8	B	399-3831-1-ND	.80	.70	.61	399-3831-2-ND	2,000	272.00/M	T494B106M010AT
	22	±20	2.2	10	4.5	A	399-3827-1-ND	.83	.72	.63	399-3827-2-ND	2,000	281.00/M	T494A226M010AT
	33	±10	3.3	6	2.0	B	399-3837-1-ND	1.35	1.18	1.03	399-3837-2-ND	2,000	459.00/M	T494B336K010AT
	47	±20	4.7	8	1.0	B	399-3839-1-ND	1.39	1.21	1.06	399-3839-2-ND	2,000	473.00/M	T494B476M010AT
	47	±10	4.7	6	0.3	C	399-3850-1-ND	1.63	1.42	1.24	399-3850-2-ND	500	296.00	T494C476K010AT
	100	±10	10	8	0.15	D	399-3853-1-ND	2.60	2.27	1.98	399-3853-2-ND	500	473.00	T494D107K010AT
	150	±10	15	10	0.9	C	399-3844-1-ND	2.60	2.27	1.98	399-3844-2-ND	500	473.00	T494C157K010AT
	330	±20	33	10	0.15	D	399-3857-1-ND	8.20	7.14	6.24	399-3857-2-ND	500	1492.50	T494D337M010AT
	330	±10	33	10	0.1	X	399-3872-1-ND	10.08	8.77	7.66	399-3872-2-ND	500	1833.50	T494X337K010AT
	330	±10	33	10	0.25	E	399-4633-1-ND	12.83	12.40	10.83	399-4633-2-ND	500	2593.50	T494E337K010AT
16	10	±20	1.6	10	3.0	A	399-3824-1-ND	.78	.68	.59	399-3824-2-ND	2,000	264.00/M	T494A106M016AT
	10	±10	1.6	6	0.8	B	399-3830-1-ND	.90	.79	.69	399-3830-2-ND	2,000	306.00/M	T494B106K016AT
	22	±20	3.5	6	0.8	B	399-3835-1-ND	1.30	1.14	.99	399-3835-2-ND	2,000	442.00/M	T494B226M016AT
	22	±10	3.6	6	0.35	C	399-3845-1-ND	1.43	1.25	1.09	399-3845-2-ND	500	260.50	T494C226K016AT
	22	±20	3.6	6	0.35	C	399-3847-1-ND	1.28	1.12	.98	399-3847-2-ND	500	233.00	T494C226M016AT
	22	±10	3.6	6	0.25	D	399-3856-1-ND	2.18	1.90	1.66	399-3856-2-ND	500	396.50	T494D226K016AT
	100	±10	16	12	0.5	V	399-3866-1-ND	4.42	3.85	3.36	399-3866-2-ND	1,000	1503.00	T494V107K016AT
	150	±10	24	12	0.4	D	399-3854-1-ND	7.15	6.23	5.44	399-3854-2-ND	500	1301.50	T494D157K016AT
	150	±10	24	8	0.15	X	399-3870-1-ND	8.78	7.64	6.67	399-3870-2-ND	500	1597.00	T494X157K016AT
	220	±10	35.2	7.2	0.5	E	399-4963-1-ND	14.25	12.40	10.83	399-4963-2-ND	500	2593.50	T494E227K016AT
20	6.8	±20	1.4	8	3.0	A	399-4634-1-ND	.70	.68	.59	399-4634-2-ND	2,000	264.00/M	T494A685M020AT
	10	±20	2	10	3.0	A	399-5157-1-ND	.83	.72	.63	399-5157-2-ND	2,000	281.00/M	T494A106M020AT
	100	±10	20	8	0.3	E	399-4635-1-ND	12.83	12.40	10.83	399-4635-2-ND	500	2593.50	T494E107K020AT
	100	±20	20	8	0.15	X	399-3868-1-ND	8.32	7.24	6.33	399-3868-2-ND	500	1514.00	T494X107M020AT
	150	±10	30	10	0.3	X	399-4795-1-ND	10.08	8.77	7.66	399-4795-2-ND	500	1833.50	T494X157K020AT
25	4.7	±20	1.2	8	3.0	A	399-4636-1-ND	.70	.68	.59	399-4636-2-ND	2,000	264.00/M	T494A475M025AT
	6.8	±10	1.7	8	2.0	B	399-3840-1-ND	1.35	1.18	1.03	399-3840-2-ND	2,000	459.00/M	T494B685K025AT
	10	±10	2.5	8	3.0	B	399-5126-1-ND	1.46	1.28	1.12	399-5126-2-ND	2,000	497.00/M	T494B106K025AT
	10	±10	2.5	6	0.6	C	399-3842-1-ND	1.43	1.25	1.09	399-3842-2-ND	500	260.50	T494C106K025AT
	10	±20	2.5	6	0.6	C	399-3843-1-ND	1.28	1.12	.98	399-3843-2-ND	500	233.00	T494C106M025AT
	10	±10	2.5	6	0.4	D	399-3851-1-ND	2.18	1.90	1.66	399-3851-2-ND	500	396.50	T494D106K025AT
	22	±10	5.5	8	1.0	C	399-3846-1-ND	1.69	1.47	1.29	399-3846-2-ND	500	307.50	T494C226K025AT
	47	±20	11.8	10	0.2	D	399-3860-1-ND	6.83	5.94	5.19	399-3860-2-ND	500	1242.00	T494D476M025AT
	68	±20	17	8	0.3	X	399-3874-1-ND	8.32	7.24	6.33	399-3874-2-ND	500	1514.00	T494X686M025AT
35	3.3	±20	1.2	6	1.3	B	399-3836-1-ND	1.30	1.14	.99	399-3836-2-ND	2,000	442.00/M	T494B335M035AT
	4.7	±10	1.7	6	0.7	D	399-3858-1-ND	2.18	1.90	1.66	399-3858-2-ND	500	396.50	T494D475K035AT
	10	±20	3.5	6	0.4	D	399-3852-1-ND	2.11	1.84	1.61	399-3852-2-ND	500	384.50	T494D106M035AT
	22	±10	7.7	6	0.3	X	399-3871-1-ND	7.15	6.23	5.44	399-3871-2-ND	500	1301.50	T494X226K035AT
	33	±10	11.6	6	0.6	D	399-5176-1-ND ***NEW!***	8.69	7.56	6.61	399-5176-2-ND ***NEW!***	500	1580.50	T494D336K035AT
	47	±10	16.5	8	0.5	X	399-3873-1-ND	10.08	8.77	7.66	399-3873-2-ND	500	1833.50	T494X476K035AT
50	2.2	±10	1.1	6	0.8	D	399-3855-1-ND	2.86	2.49	2.18	399-3855-2-ND	500	520.50	T494D225K050AT
	4.7	±10	2.4	6	0.6	D	399-3859-1-ND	2.86	2.49	2.18	399-3859-2-ND	500	520.50	T494D475K050AT
	6.8	±20	3.4	6	0.7	D	399-3862-1-ND	3.25	2.83	2.47	399-3862-2-ND	500	591.50	T494D685M050AT
	15	±10	7.5	8	0.4	X	399-3869-1-ND	9.75	8.49	7.41	399-3869-2-ND	500	1774.50	T494X156K050AT
T495 Series, Low ESR, Surge Robust														
4	150	±20	6	12	0.9	B	399-3347-1-ND	1.90	1.66	1.45	399-3347-2-ND	2,000	646.00/M	T495B157M004ASE900

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

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WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Qty.	Pricing	
T495 Series, Low ESR, Surge Robust — RoHS Compliant														
2.5	220	±10	5.5	8	0.045	D	399-4773-1-ND	3.60	3.48	3.04	399-4773-2-ND	500	728.00	T495D227K2R5ATE045
	1000	±10	25	15	0.03	X	399-5227-1-ND ***NEW!***	13.25	11.53	10.07	399-5227-2-ND ***NEW!***	500	2411.50	T495X108K2R5ATE030
	1000	±10	25	15	0.04	X	399-4796-1-ND	12.75	11.10	9.69	399-4796-2-ND	500	2320.50	T495X108K2R5ATE040
4	33	±10	1	8	1.2	T	399-5196-1-ND ***NEW!***	1.50	1.31	1.14	399-5196-2-ND ***NEW!***	2,500	510.00/M	T495T336K004ZTE1K2
	47	±10	2	10	1.0	T	399-5197-1-ND ***NEW!***	1.50	1.31	1.14	399-5197-2-ND ***NEW!***	2,500	510.00/M	T495T476K004ZTE1K0
	150	±10	6	8	0.25	C	399-4637-1-ND	2.07	2.01	1.75	399-4637-2-ND	500	418.50	T495C157K004ATE250
	150	±20	6	12	0.9	B	399-3876-1-ND	1.90	1.66	1.45	399-3876-2-ND	2,000	646.00/M	T495B157M004ATE900
	150	±10	6	8	0.02	U	399-5199-1-ND ***NEW!***	1.90	1.66	1.45	399-5199-2-ND ***NEW!***	1,250	646.00/M	T495U157K004ZTE200
	330	±10	13.2	12	0.7	C	399-3878-1-ND	2.30	2.01	1.75	399-3878-2-ND	500	418.50	T495C337K004ATE700
	330	±10	13.2	8	0.03	D	399-4798-1-ND	4.90	4.27	3.73	399-4798-2-ND	500	892.00	T495D337K004ATE030
	330	±10	13.2	8	0.045	D	399-4797-1-ND	4.55	3.96	3.46	399-4797-2-ND	500	828.00	T495D337K004ATE045
	470	±10	18.8	8	0.03	X	399-4776-1-ND	11.93	11.53	10.07	399-4776-2-ND	500	2411.50	T495X477K004ATE030
	470	±10	18.8	8	0.045	X	399-4775-1-ND	11.48	11.10	9.69	399-4775-2-ND	500	2320.50	T495X477K004ATE045
	470	±10	18.8	8	0.1	X	399-4774-1-ND	11.03	10.66	9.31	399-4774-2-ND	500	2229.50	T495X477K004ATE100
	1000	±10	40	12	0.03	X	399-5224-1-ND ***NEW!***	10.25	8.92	7.79	399-5224-2-ND ***NEW!***	500	1865.50	T495X108K004ATE030
	1000	±10	40	12	0.04	X	399-5225-1-ND ***NEW!***	9.75	8.49	7.41	399-5225-2-ND ***NEW!***	500	1774.50	T495X108K004ATE040
	1000	±10	40	15	0.05	E	399-4799-1-ND	14.50	12.62	11.02	399-4799-2-ND	500	2639.00	T495E108K004ATE050
	1000	±10	40	12	0.06	X	399-5226-1-ND ***NEW!***	9.25	8.05	7.03	399-5226-2-ND ***NEW!***	500	1683.50	T495X108K004ATE060
6.3	6.8	±10	0	6	1.8	A	399-5185-1-ND ***NEW!***	.80	.70	.61	399-5185-2-ND ***NEW!***	2,000	272.00/M	T495A685K006ZTE1K8
	15	±10	1	6	1.0	T	399-5194-1-ND ***NEW!***	1.50	1.31	1.14	399-5194-2-ND ***NEW!***	2,500	510.00/M	T495T156K006ZTE1K0
	47	±10	2.9	6	0.25	C	399-4638-1-ND	1.82	1.77	1.54	399-4638-2-ND	500	368.50	T495C476K006ATE250
	100	±10	6.3	8	0.075	C	399-5218-1-ND ***NEW!***	2.28	1.98	1.73	399-5218-2-ND ***NEW!***	500	414.00	T495C107K006ATE075
	100	±20	6	8	0.15	C	399-5261-1-ND◊ ***NEW!***	2.00	1.74	1.52	399-5261-2-ND ***NEW!***	500	364.00	T495C107M006ATE150
	100	±10	6.3	20	1.0	M	399-5160-1-ND	1.93	1.69	1.47	399-5160-2-ND	2,000	657.00/M	T495M107K006ZTE1K0
	100	±20	6.3	20	1.0	M	399-5162-1-ND	1.93	1.69	1.47	399-5162-2-ND	2,000	657.00/M	T495M107M006ZTE1K0
	100	±20	6.3	15	0.7	B	399-3875-1-ND	1.90	1.66	1.45	399-3875-2-ND	2,000	646.00/M	T495B107M006ATE700
	100	±10	6.3	20	0.5	M	399-5161-1-ND	1.93	1.69	1.47	399-5161-2-ND	2,000	657.00/M	T495M107K006ZTE500
	100	±20	6.3	20	0.5	M	399-5163-1-ND	1.93	1.69	1.47	399-5163-2-ND	2,000	657.00/M	T495M107M006ZTE500
	100	±10	6	8	0.09	V	399-4700-1-ND	4.20	3.66	3.20	399-4700-2-ND	1,000	1429.00	T495V107K006ATE090
	150	±10	9	8	0.07	V	399-4964-1-ND	4.10	3.57	3.12	399-4964-2-ND	1,000	1394.00	T495V157K006ATE070
	150	±10	10	8	0.2	U	399-5200-1-ND ***NEW!***	2.00	1.74	1.52	399-5200-2-ND ***NEW!***	1,250	680.00/M	T495U157K006ZTE200
	220	±10	13.2	8	0.07	X	399-4965-1-ND	2.90	2.53	2.21	399-4965-2-ND	500	528.00	T495X227K006ATE070
	220	±10	13.9	10	0.225	C	399-3877-1-ND	2.30	2.01	1.75	399-3877-2-ND	500	418.50	T495C227K006ATE225
	330	±10	20.8	8	0.1	D	399-3883-1-ND	1.90	1.66	1.45	399-3883-2-ND	500	346.00	T495D337K006ATE100
	330	±10	19.8	8	0.1	X	399-3902-1-ND	2.50	2.18	1.90	399-3902-2-ND	500	455.00	T495X337K006ATE100
	330	±10	19.8	8	0.045	X	399-4777-1-ND	3.15	3.05	2.66	399-4777-2-ND	500	637.00	T495X337K006ATE045
	330	±10	20.8	8	0.04	D	399-4802-1-ND	2.90	2.53	2.21	399-4802-2-ND	500	528.00	T495D337K006ATE040
	330	±10	20.8	8	0.05	D	399-4801-1-ND	2.40	2.09	1.83	399-4801-2-ND	500	437.00	T495D337K006ATE050
	330	±10	20.8	8	0.07	D	399-4800-1-ND	2.05	1.79	1.56	399-4800-2-ND	500	373.00	T495D337K006ATE070
	470	±20	29.6	12	0.045	D	399-5220-1-ND ***NEW!***	2.50	2.18	1.90	399-5220-2-ND ***NEW!***	500	455.00	T495D477M006ATE045
	470	±10	28.2	10	0.03	X	399-4779-1-ND	4.05	3.92	3.42	399-4779-2-ND	500	819.00	T495X477K006ATE030
	470	±10	28.2	10	0.045	X	399-4778-1-ND	3.60	3.48	3.04	399-4778-2-ND	500	728.00	T495X477K006ATE045
	470	±10	29.6	12	0.125	D	399-3886-1-ND	2.10	1.83	1.60	399-3886-2-ND	500	382.00	T495D477K006ATE125
	470	±10	29.6	12	0.1	D	399-4701-1-ND	2.25	1.96	1.71	399-4701-2-ND	500	409.50	T495D477K006ATE100
10	4.7	±10	0.5	6	1.4	A	399-5184-1-ND ***NEW!***	1.45	1.27	1.11	399-5184-2-ND ***NEW!***	2,000	493.00/M	T495A475K010ZTE1K4
	6.8	±10	0.7	6	1.8	A	399-5186-1-ND ***NEW!***	1.45	1.27	1.11	399-5186-2-ND ***NEW!***	2,000	493.00/M	T495A685K010ZTE1K8
	10	±10	1	6	1.8	A	399-5179-1-ND ***NEW!***	1.45	1.27	1.11	399-5179-2-ND ***NEW!***	2,000	493.00/M	T495A106K010ATE1K8
	10	±10	1	6	0.6	B	399-5187-1-ND ***NEW!***	1.40	1.22	1.07	399-5187-2-ND ***NEW!***	2,000	476.00/M	T495B106K010ZTE600
	15	±10	2	6	1.0	A	399-5181-1-ND ***NEW!***	.85	.74	.65	399-5181-2-ND ***NEW!***	2,000	289.00/M	T495A156K010ZTE1K0
	15	±10	1.5	6	0.475	C	399-4639-1-ND	1.91	1.85	1.62	399-4639-2-ND	500	387.00	T495C156K010ATE475
	15	±10	2	6	1.2	T	399-5195-1-ND ***NEW!***	1.50	1.31	1.14	399-5195-2-ND ***NEW!***	2,500	510.00/M	T495T156K010ZTE1K2
	22	±10	2	6	0.4	B	399-5189-1-ND ***NEW!***	1.18	1.03	.90	399-5189-2-ND ***NEW!***	2,000	400.00/M	T495B226K010ZTE400
	22	±10	2.2	6	0.3	C	399-5192-1-ND ***NEW!***	2.28	1.98	1.73	399-5192-2-ND ***NEW!***	750	621.00	T495C226K010ZTE300
	68	±10	6.8	6	0.07	V	399-4966-1-ND	4.33	3.77	3.29	399-4966-2-ND	1,000	1471.00	T495V686K010ATE070
	68	±10	6.8	6	0.1	V	399-4780-1-ND	3.78	3.66	3.20	399-4780-2-ND	1,000	1429.00	T495V686K010ATE100
	100	±10	10	8	0.18	L	399-5193-1-ND ***NEW!***	.85	.74	.65	399-5193-2-ND ***NEW!***	1,000	289.00	T495L107K010ZTE180
	100	±10	10	8	0.15	U	399-5198-1-ND ***NEW!***	2.00	1.74	1.52	399-5198-2-ND ***NEW!***	1,250	680.00/M	T495U107K010ZTE150
	100	±10	10	8	0.1	D	399-3879-1-ND	1.20	1.05	.92	399-3879-2-ND	500	218.50	T495D107K010ATE100
	150	±20	15	8	0.15	V	399-3891-1-ND	3.85	3.35	2.93	399-3891-2-ND	1,000	1309.00	T495V157M010ATE150
	220	±10	22	8	0.045	D	399-4803-1-ND	2.90	2.53	2.21	399-4803-2-ND	500	528.00	T495D227K010ATE045
	220	±20	22	8	0.1	D	399-5264-1-ND◊ ***NEW!***	2.15	1.88	1.64	399-5264-2-ND ***NEW!***	500	391.50	T495D227M010ATE100
	220	±10	22	12	0.15	V	399-5201-1-ND ***NEW!***	4.67	4.07	3.55	399-5201-2-ND ***NEW!***	1,000	1588.00	T495V227K010ZTE150
	220	±10	22	8	0.045	X	399-4967-1-ND	4.00	3.48	3.04	399-4967-2-ND	500	728.00	T495X227K010ATE045
	220	±10	22	8	0.05	X	399-4782-1-ND	3.60	3.48	3.04	399-4782-2-ND	500	728.00	T495X227K010ATE050
	220	±10	22	8	0.06	X	399-4781-1-ND	3.15	3.05	2.66	399-4781-2-ND	500	637.00	T495X227K010ATE060
	220	±10	22	8	0.125	D	399-3881-1-ND	1.90	1.66	1.45	399-3881-2-ND	500	346.00	T495D227K010ATE125
	220	±10	22	8	0.1	X	399-3900-1-ND	2.50	2.18	1.90	399-3900-2-ND	500	455.00	T495X227K010ATE100
	330	±10	33	10	0.035	X	399-4783-1-ND	3.60	3.48	3.04	399-4783-2-ND	500	728.00	T495X337K010ATE035
	330	±10	33	8	0.04	E	399-4968-1-ND	14.00	12.18	10.64	399-4968-2-ND	500	2548.00	T495E337K010ATE040
	330	±10	33	10	0.06	E	399-4641-1-ND	12.15	11.75	10.26	399-4641-2-ND	500	2457.00	T495E337K010ATE060
	330	±10	33	10	0.1	E	399-4640-1-ND	11.93	11.53	10.07	399-4640-2-ND	500	2411.50	T495E337K010ATE100
	330	±10	33	10	0.125	D	399-3884-1-ND	2.10	1.83	1.60	399-3884-2-ND	500	382.00	T495D337K010ATE125
	330	±10	33	10	0.06	X	399-3903-1-ND	3.00	2.61	2.28	399-3903-2-ND	500	546.00	T495X337K010ATE060
	470	±10	47	10	0.04	E	399-5127-1-ND	14.50	12.62	11.02	399-5127-2-ND	500	2639.00	T495E477K010ATE040
	470	±10	47	10	0.1	E	399-5128-1-ND	13.75	11.97	10.45	399-5128-2-ND	500	2502.50	T495E477K010ATE100
16	4.7	±10	0.8	6	0.8	B	399-5191-1-ND ***NEW!***	2.00	1.74	1.52	399-5191-2-ND ***NEW!***	2,000	680.00/M	T495B475K016ZTE800
	6.8	±10	1.1	6	0.75	C	399-4642-1-ND	1.91	1.85	1.62	399-4642-2-ND	500	387.00	T495C685K016ATE750
	15	±10	2.4	6	0.8	B	399-4969-1-ND	2.00	1.74	1.52	399-4969-2-ND	2,000	680.00/M	T495B156K016ATE800
	15	±10	2.4	6	0.5	B	399-5188-1-ND ***NEW!***	2.00	1.74	1.52	399-5188-2-ND ***NEW!***	2,000	680.00/M	T495B156K016ZTE500
	22	±10	3.5	6	0.6	B	399-5190-1-ND ***NEW!***	2.00	1.74	1.52	399-5190-2-ND ***NEW!***	2,000	680.00/M	T495B226K016ATE600
	33	±10	6.6	6	0.15	D	399-4702-1-ND	1.60	1.40	1.22	399-4702-2-ND	500	291.00	T495D336K016ATE150
	47	±10	7.5	6	0.35	C	399-4970-1-ND	2.33	2.03	1.77	399-4970-2-ND	500	423.00	T495C476K016ATE350
	68	±10	10.9	6	0.18	V	399-4703-1-ND	4.10	3.57	3.12	399-4703-2-ND	1,000	1394.00	T495V686K016ATE180
	68	±10	10.9	6	0.15	D	399-3889-1-ND	1.20	1.05	.92	399-3889-2-ND	500	437.00	T495D686K016ATE150
	68	±20	10.9	6	0.3	V	399-5268-1-ND◊ ***NEW!***	3.85	3.35	2.93	399-5268-2-ND ***NEW!***	1,000	1309.00	T495V686M016ATE300
	100	±10	16	10	0.2	C	399-5219-1-ND ***NEW!***	1.15	1.01	.88	399-5219-2-ND ***NEW!***	750	314.25	T495C107K016ZTE200
	100	±20	16	8	0.1	D	399-5262-1-ND◊ ***NEW!***	1.65	1.44	1.26	399-5262-2-ND ***NEW!***	500	300.50	T495D107M016ATE100
	100	±10	16	8	0.1	X	399-3895-1-ND	2.40	2.09	1.83	399-3895-2-ND	500	437.00	T495X107K016ATE100
	100	±20	16	8	0.1	X	399-3896-1-ND	2.40	2.09	1.83	399-3896-2-ND	500	437.00	T495X107M016ATE100
	150	±10	24	8	0.1	X	399-3898-1-ND	2.50	2.18	1.90	399-3898-2-ND	500	455.00	T495X157K016ATE100
	150	±10	24	8	0.085	D	399-5158-1-ND	5.50	4.79	4.18	399-5158-2-ND	500	1001.00	T495D157K016ATE085
	150	±20	24	8	0.085	D	399-5159-1-ND	5.25	4.57	3.99	399-5159-2-ND	500	955.50	T495D157M016ATE085
	150	±10	24	8	0.125	D	399-5130-1-ND	4.75	4.14	3.61	399-5130-2-ND	500	864.50	T495D157K016ATE125
	150	±10	24	8	0.15	D	399-5129-1-ND	4.50	3.92	3.42	399-5129-2-ND	500	819.00	T495D157K016ATE150
	220	±10	35.2	12	0.05	E	399-5223-1-ND ***NEW!***	14.50	12.62	11.02	399-5223-2-ND ***NEW!***	500	2639.00	T495E227K016ATE050
	220	±10	35.2	7.2	0.1	E	399-4972-1-ND	13.50	11.75	10.26	399-4972-2-ND	500	2457.00	T495E227K016ATE100
	220	±10	35.2	7.2	0.15	E	399-4971-1-ND	13.25	11.53	10.07	399-4971-2-ND	500	2411.50	T495E227K016ATE150
20	1	±10	0.2	4	3.0	A	399-5177-1-ND ***NEW!***	1.90	1.66	1.45	399-5177-2-ND ***NEW!***	2,000	646.00/M	T495A105K020ZTE3K0
	10	±10	2	6	0.475	C	399-4644-1-ND	1.91	1.85	1.62	399-4644-2-ND	500	387.00	T495C106K020ATE475
	10	±10	2	6	1.0	B	399-4973-1-ND	2.00	1.74	1.52	399-4973-2-ND	2,000	680.00/M	T495B106K020ATE1K0
	15	±10	3	6	0.375	C	399-4643-1-ND	1.91	1.85	1.62	399-4643-2-ND	500	387.00	T495C156K020ATE375

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

Surface Mount Tantalum Chip Capacitors *(Cont.)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Qty.	Pricing	
20	22	±10	3.5	4	0.18	D	399-4704-1-ND	1.45	1.27	1.11	399-4704-2-ND	500	264.00	T495D226K020ATE180
	47	±10	7.5	4	0.15	X	399-3904-1-ND	2.20	1.92	1.68	399-3904-2-ND	500	400.50	T495X476K020ATE150
	47	±10	9.4	6	0.1	D	399-4784-1-ND	1.49	1.44	1.26	399-4784-2-ND	500	300.50	T495D476K020ATE100
	47	±10	9.4	6	0.175	D	399-3885-1-ND	1.40	1.22	1.07	399-3885-2-ND	500	255.00	T495D476K020ATE175
	47	±10	9.4	8	0.065	X	399-4804-1-ND	3.70	3.22	2.82	399-4804-2-ND	500	673.50	T495X476K020ATE065
	47	±20	9.4	6	0.1	X	399-5267-1-ND◊ ***NEW!***	3.20	2.79	2.44	399-5267-2-ND ***NEW!***	500	582.50	T495X476M020ATE100
	68	±10	13.6	8	0.15	D	399-3890-1-ND	1.40	1.22	1.07	399-3890-2-ND	500	255.00	T495D686K020ATE150
	68	±10	13.6	6	0.15	X	399-3907-1-ND	2.40	2.09	1.83	399-3907-2-ND	500	437.00	T495X686K020ATE150
	100	±10	20	8	0.085	E	399-4647-1-ND	12.60	12.18	10.64	399-4647-2-ND	500	2548.00	T495E107K020ATE085
	100	±10	20	8	0.06	E	399-5131-1-ND	14.50	12.62	11.02	399-5131-2-ND	500	2639.00	T495E107K020ATE060
	100	±10	20	8	0.1	E	399-4646-1-ND	12.15	11.75	10.26	399-4646-2-ND	500	2457.00	T495E107K020ATE100
	100	±10	20	8	0.2	E	399-4645-1-ND	11.93	11.53	10.07	399-4645-2-ND	500	2411.50	T495E107K020ATE200
	150	±10	30	8	0.08	E	399-5222-1-ND ***NEW!***	14.75	12.84	11.21	399-5222-2-ND ***NEW!***	500	2684.50	T495E157K020ATE080
25	1	±10	0	4	4.0	A	399-5178-1-ND ***NEW!***	.80	.70	.61	399-5178-2-ND ***NEW!***	2,000	272.00/M	T495A105K025ZTE4K0
	1.5	±10	0	6	3.0	A	399-5180-1-ND ***NEW!***	.85	.74	.65	399-5180-2-ND ***NEW!***	2,000	289.00/M	T495A155K025ZTE3K0
	2.2	±10	0.6	6	1.3	C	399-4649-1-ND	1.91	1.85	1.62	399-4649-2-ND	500	387.00	T495C225K025ATE1K3
	3.3	±10	0.9	6	0.75	C	399-4648-1-ND	1.91	1.85	1.62	399-4648-2-ND	500	387.00	T495C335K025ATE750
	15	±10	3.8	6	0.1	D	399-5132-1-ND	1.45	1.27	1.11	399-5132-2-ND	500	264.00	T495D156K025ATE100
	22	±20	5.5	6	0.2	D	399-5263-1-ND◊ ***NEW!***	1.20	1.05	.92	399-5263-2-ND ***NEW!***	500	218.50	T495D226M025ATE200
	33	±10	6.6	4	0.175	X	399-3901-1-ND	2.20	1.92	1.68	399-3901-2-ND	500	400.50	T495X336K025ATE175
	33	±10	8.3	6	0.09	D	399-4785-1-ND	1.94	1.88	1.64	399-4785-2-ND	500	391.50	T495D336K025ATE090
	33	±10	8.3	4	0.1	X	399-5228-1-ND ***NEW!***	2.70	2.35	2.06	399-5228-2-ND ***NEW!***	500	491.50	T495X336K025ATE100
	33	±10	8.3	6	0.3	D	399-3882-1-ND	1.40	1.22	1.07	399-3882-2-ND	500	255.00	T495D336K025ATE300
	47	±10	11.8	8	0.08	X	399-5205-1-ND ***NEW!***	4.00	3.48	3.04	399-5205-2-ND ***NEW!***	500	728.00	T495X476K025ATE080
	47	±10	11.8	8	0.1	X	399-5204-1-ND ***NEW!***	3.50	3.05	2.66	399-5204-2-ND ***NEW!***	500	637.00	T495X476K025ATE100
	47	±10	11.8	6	0.15	X	399-4705-1-ND	3.00	2.61	2.28	399-4705-2-ND	500	546.00	T495X476K025ATE150
	47	±20	11.8	6	0.2	X	399-3906-1-ND	2.50	2.18	1.90	399-3906-2-ND	500	455.00	T495X476M025ATE200
	47	±20	11.8	10	0.12	D	399-4650-1-ND	1.94	1.88	1.64	399-4650-2-ND	500	391.50	T495D476M025ATE120
	68	±10	17	8	0.125	X	399-4707-1-ND	3.50	3.05	2.66	399-4707-2-ND	500	637.00	T495X686K025ATE125
	68	±10	17	8	0.15	X	399-4706-1-ND	3.00	2.61	2.28	399-4706-2-ND	500	546.00	T495X686K025ATE150
	68	±10	17	8	0.2	X	399-3908-1-ND	2.50	2.18	1.90	399-3908-2-ND	500	455.00	T495X686K025ATE200
	100	±10	25	8	0.1	E	399-5221-1-ND ***NEW!***	14.75	12.84	11.21	399-5221-2-ND ***NEW!***	500	2684.50	T495E107K025ATE100
	100	±10	25	8	0.15	X	399-5202-1-ND ***NEW!***	3.55	3.09	2.70	399-5202-2-ND ***NEW!***	400	516.80	T495X107K025ZTE150
35	0.33	±10	0	4	6.0	A	399-5182-1-ND ***NEW!***	.95	.83	.73	399-5182-2-ND ***NEW!***	2,000	323.00/M	T495A334K035ZTE6K0
	0.47	±10	0	4	4.0	A	399-5183-1-ND ***NEW!***	.95	.83	.73	399-5183-2-ND ***NEW!***	2,000	323.00/M	T495A474K035ZTE4K0
	0.47	±10	0.5	4	2.2	B	399-4974-1-ND	1.40	1.22	1.07	399-4974-2-ND	2,000	476.00/M	T495B474K035ATE2K2
	1.00	±10	0.5	4	1.7	B	399-4975-1-ND	1.40	1.22	1.07	399-4975-2-ND	2,000	476.00/M	T495B105K035ATE1K7
	2.20	±10	0.8	6	1.5	B	399-4976-1-ND	2.00	1.74	1.52	399-4976-2-ND	2,000	680.00/M	T495B225K035ATE1K5
	6.8	±10	2.4	6	0.4	D	399-3887-1-ND	1.20	1.05	.92	399-3887-2-ND	500	218.50	T495D685K035ATE400
	22	±10	7.7	6	0.3	D	399-3880-1-ND	1.20	1.05	.92	399-3880-2-ND	500	218.50	T495D226K035ATE300
	22	±10	7.7	6	0.275	X	399-3899-1-ND	2.40	2.09	1.83	399-3899-2-ND	500	437.00	T495X226K035ATE275
	33	±10	11.6	6	0.2	E	399-5133-1-ND	14.75	12.84	11.21	399-5133-2-ND	500	2684.50	T495E336K035ATE200
	33	±10	11.6	6	0.1	X	399-5203-1-ND ***NEW!***	3.00	2.61	2.28	399-5203-2-ND ***NEW!***	500	546.00	T495X336K035ATE100
	33	±20	11.6	6	0.175	X	399-5266-1-ND◊ ***NEW!***	2.75	2.40	2.09	399-5266-2-ND ***NEW!***	500	500.50	T495X336M035ATE175
50	4.7	±10	2.4	6	0.275	D	399-4786-1-ND	2.03	1.96	1.71	399-4786-2-ND	500	409.50	T495D475K050ATE275
	4.7	±20	1.9	4	0.3	X	399-5265-1-ND◊ ***NEW!***	7.55	6.57	5.74	399-5265-2-ND ***NEW!***	500	1374.00	T495X475M050ATE300
	6.8	±10	3.4	6	0.3	D	399-3888-1-ND	2.00	1.74	1.52	399-3888-2-ND	500	364.00	T495D685K050ATE300
	10	±10	5	6	0.3	X	399-3893-1-ND	7.55	6.57	5.74	399-3893-2-ND	500	1374.00	T495X106K050ATE300
	10	±20	5	6	0.3	X	399-3894-1-ND	7.55	6.57	5.74	399-3894-2-ND	500	1374.00	T495X106M050ATE300
	15	±10	7.5	8	0.3	X	399-3897-1-ND	7.55	6.57	5.74	399-3897-2-ND	500	1374.00	T495X156K050ATE300
	47	±10	16.5	8	0.3	X	399-3905-1-ND	2.50	2.18	1.90	399-3905-2-ND	500	455.00	T495X476K035ATE300
T496 Series, Fused														
4	330	±10	13.2	8	0.7	X	399-1665-1-ND	7.50	6.53	5.70	399-1665-2-ND	500	1365.00	T496X337K004AS
	330	±20	13.2	8	0.7	X	399-1666-1-ND	7.00	6.09	5.32	—	—	—	T496X337M004AS
6.3	10	±10	0.6	6	3.5	B	399-1667-1-ND	1.80	1.57	1.37	—	—	—	T496B106K006AS
	10	±20	0.6	6	3.5	B	399-1668-1-ND	1.65	1.44	1.26	—	—	—	T496B106M006AS
	100	±20	6	8	0.9	X	399-1672-1-ND	6.50	5.66	4.94	399-1672-2-ND	500	1183.00	T496X107M006AS
10	4.7	±20	0.5	6	3.5	B	399-1674-1-ND	1.65	1.44	1.26	—	—	—	T496B475M010AS
	22	±10	2.2	6	2.0	C	399-1675-1-ND	3.00	2.61	2.28	399-1675-2-ND	500	546.00	T496C226K010AS
	33	±10	3.3	6	1.0	D	399-1677-1-ND	3.90	3.40	2.97	—	—	—	T496D336K010AS
	68	±20	6.8	6	0.9	X	399-1684-1-ND	6.50	5.66	4.94	399-1684-2-ND	500	1183.00	T496X686M010AS
	100	±10	10	8	0.7	D	399-1681-1-ND	4.15	3.62	3.16	—	—	—	T496D107K010AS
	100	±20	10	8	0.7	D	399-1682-1-ND	4.00	3.48	3.04	—	—	—	T496D107M010AS
	220	±20	22	8	0.5	X	399-1686-1-ND	8.50	7.40	6.46	399-1686-2-ND	500	1547.00	T496X227M010AS
16	2.2	±10	0.5	6	3.5	B	399-1687-1-ND	1.80	1.57	1.37	—	—	—	T496B225K016AS
	2.2	±20	0.5	6	3.5	B	399-1688-1-ND	1.65	1.44	1.26	—	—	—	T496B225M016AS
	10	±10	1.6	6	3.5	B	399-1691-1-ND	1.90	1.66	1.45	—	—	—	T496B106K016AS
	15	±10	2.4	6	2.0	C	399-1695-1-ND	3.00	2.61	2.28	—	—	—	T496C156K016AS
	15	±20	2.4	6	2.0	C	399-1696-1-ND	2.75	2.40	2.09	—	—	—	T496C156M016AS
	22	±20	3.6	6	1.6	C	399-1698-1-ND	2.90	2.53	2.21	—	—	—	T496C226M016AS
	33	±20	5.3	6	1.0	D	399-1700-1-ND	3.75	3.27	2.85	399-1700-2-ND	500	682.50	T496D336M016AS
	47	±20	7.5	6	0.9	X	399-1704-1-ND	6.50	5.66	4.94	—	—	—	T496X476M016AS
	100	±20	16	8	0.7	X	399-1706-1-ND	7.00	6.09	5.32	399-1706-2-ND	500	1274.00	T496X107M016AS
20	2.2	±10	0.5	6	3.5	B	399-1707-1-ND	1.80	1.57	1.37	—	—	—	T496B225K020AS
	6.8	±10	1.4	6	2.0	C	399-1709-1-ND	3.00	2.61	2.28	—	—	—	T496C685K020AS
	22	±20	4.4	6	1.0	D	399-1714-1-ND	3.75	3.27	2.85	—	—	—	T496D226M020AS
	33	±10	6.6	6	0.9	X	399-1715-1-ND	7.00	6.09	5.32	—	—	—	T496X336K020AS
	33	±20	6.6	6	0.9	X	399-1716-1-ND	6.50	5.66	4.94	—	—	—	T496X336M020AS
	47	±20	9.4	6	0.3	X	399-3465-1-ND	7.00	6.09	5.32	399-3465-2-ND	500	1274.00	T496X476M020AS
25	4.7	±20	1.2	6	2.5	C	399-1718-1-ND	2.75	2.40	2.09	399-1718-2-ND	500	500.50	T496C475M025AS
	22	±20	5.5	6	0.8	D	399-1722-1-ND	3.75	3.27	2.85	—	—	—	T496D226M025AS
	22	±10	5.5	6	0.9	X	399-1723-1-ND	7.00	6.09	5.32	—	—	—	T496X226K025AS
	22	±20	5.5	6	0.9	X	399-1724-1-ND	6.50	5.66	4.94	—	—	—	T496X226M025AS
35	1.0	±20	0.5	4	5.0	B	399-1726-1-ND	1.65	1.44	1.26	—	—	—	T496B105M035AS
	2.2	±20	0.8	6	3.5	C	399-1728-1-ND	2.75	2.40	2.09	399-1728-2-ND	500	500.50	T496C225M035AS
	4.7	±10	1.7	6	1.5	D	399-1729-1-ND	3.90	3.40	2.97	399-1729-2-ND	500	709.80	T496D475K035AS
	6.8	±10	2.4	6	1.3	D	399-1731-1-ND	3.90	3.40	2.97	—	—	—	T496D685K035AS
	6.8	±20	2.4	6	1.3	D	399-1732-1-ND	3.75	3.27	2.85	399-1732-2-ND	500	682.50	T496D685M035AS
50	1.0	±20	0.5	4	5.5	C	399-1738-1-ND	3.30	2.88	2.51	—	—	—	T496C105M050AS
T496 Series, Fused — RoHS Compliant														
4	330	±10	13.2	8	0.7	X	399-3979-1-ND	7.50	6.53	5.70	399-3979-2-ND	500	1365.00	T496X337K004AT
	330	±20	13.2	8	0.7	X	399-3980-1-ND	7.00	6.09	5.32	399-3980-2-ND	500	1274.00	T496X337M004AT
6.3	10	±10	0.6	6	3.5	B	399-3911-1-ND	1.80	1.57	1.37	399-3911-2-ND	2,000	612.00/M	T496B106K006ATE3K5
	10	±20	0.6	6	3.5	B	399-3913-1-ND	1.65	1.44	1.26	399-3913-2-ND	2,000	561.00/M	T496B106M006AT
	100	±10	6	8	0.8	D	399-3945-1-ND	3.90	3.40	2.97	399-3945-2-ND	500	710.00	T496D107K006AT
	100	±20	6	8	0.8	D	399-3947-1-ND	3.75	3.27	2.85	399-3947-2-ND	500	682.50	T496D107M006AT
	100	±10	6	8	0.9	X	399-3967-1-ND	7.00	6.09	5.32	399-3967-2-ND	500	1274.00	T496X107K006AT
	100	±20	6	8	0.9	X	399-3969-1-ND	6.50	5.66	4.94	399-3969-2-ND	500	1183.00	T496X107M006AT

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Qty.	Pricing	
10	4.7	±10	0.5	6	3.5	B	399-3919-1-ND	1.80	1.57	1.37	399-3919-2-ND	2,000	612.00/M	T496B475K010AT
	4.7	±20	0.5	6	3.5	B	399-3921-1-ND	1.65	1.44	1.26	399-3921-2-ND	2,000	561.00/M	T496B475M010AT
	22	±10	2.2	6	2.0	C	399-3935-1-ND	3.00	2.61	2.28	399-3935-2-ND	500	546.00	T496C226K010ATE2K0
	22	±20	2.2	6	2.0	C	399-3937-1-ND	2.75	2.40	2.09	399-3937-2-ND	500	500.50	T496C226M010AT
	33	±10	3.3	6	1.0	D	399-3953-1-ND	3.90	3.40	2.97	399-3953-2-ND	500	710.00	T496D336K010AT
	33	±20	3.3	6	1.0	D	399-3955-1-ND	3.75	3.27	2.85	399-3955-2-ND	500	682.50	T496D336M010ATE1K0
	47	±10	4.7	6	1.0	D	399-3959-1-ND	3.90	3.40	2.97	399-3959-2-ND	500	710.00	T496D476K010ATE1K0
	47	±20	4.7	6	1.0	D	399-3961-1-ND	3.75	3.27	2.85	399-3961-2-ND	500	682.50	T496D476M010AT
	68	±10	6.8	6	0.9	X	399-3987-1-ND	7.00	6.09	5.32	399-3987-2-ND	500	1274.00	T496X686K010ATE900
	68	±20	6.8	6	0.9	X	399-3988-1-ND	6.50	5.66	4.94	399-3988-2-ND	500	1183.00	T496X686M010AT
	100	±10	10	8	0.7	D	399-3946-1-ND	4.15	3.62	3.16	399-3946-2-ND	500	755.50	T496D107K010AT
	100	±20	10	8	0.7	D	399-3948-1-ND	4.00	3.48	3.04	399-3948-2-ND	500	728.00	T496D107M010AT
	220	±10	22	8	0.5	X	399-3975-1-ND	9.00	7.83	6.84	399-3975-2-ND	500	1638.00	T496X227K010AT
	220	±20	22	8	0.5	X	399-3976-1-ND	8.50	7.40	6.46	399-3976-2-ND	500	1547.00	T496X227M010ATE500
16	2.2	±10	0.5	6	3.5	B	399-3915-1-ND	1.80	1.57	1.37	399-3915-2-ND	2,000	612.00/M	T496B225K016AT
	2.2	±20	0.5	6	3.5	B	399-3917-1-ND	1.65	1.44	1.26	399-3917-2-ND	2,000	561.00/M	T496B225M016ATE3K5
	4.7	±10	0.8	6	3.5	B	399-3920-1-ND	1.80	1.57	1.37	399-3920-2-ND	2,000	612.00/M	T496B475K016ATE3K5
	4.7	±20	0.8	6	3.5	B	399-3922-1-ND	1.65	1.44	1.26	399-3922-2-ND	2,000	561.00/M	T496B475M016AT
	10	±10	1.6	6	3.5	B	399-3912-1-ND	1.90	1.66	1.45	399-3912-2-ND	2,000	646.00/M	T496B106K016AT
	10	±20	1.6	6	3.5	B	399-3914-1-ND	1.80	1.57	1.37	399-3914-2-ND	2,000	612.00/M	T496B106M016ATE3K5
	10	±10	1.6	6	2.0	C	399-3925-1-ND	3.00	2.61	2.28	399-3925-2-ND	500	546.00	T496C106K016ATE2K0
	10	±20	1.6	6	2.0	C	399-3928-1-ND	2.75	2.40	2.09	399-3928-2-ND	500	500.50	T496C106M016ATE2K0
	15	±10	2.4	6	2.0	C	399-3931-1-ND	3.00	2.61	2.28	399-3931-2-ND	500	546.00	T496C156K016AT
	15	±20	2.4	6	2.0	C	399-3932-1-ND	2.75	2.40	2.09	399-3932-2-ND	500	500.50	T496C156M016ATE2K0
	22	±10	3.6	6	1.6	C	399-3936-1-ND	3.15	2.75	2.40	399-3936-2-ND	500	573.50	T496C226K016ATE1K6
	22	±20	3.6	6	1.6	C	399-3938-1-ND	2.90	2.53	2.21	399-3938-2-ND	500	528.00	T496C226M016AT
	33	±10	5.3	6	1.0	D	399-3954-1-ND	3.90	3.40	2.97	399-3954-2-ND	500	710.00	T496D336K016AT
	33	±20	5.3	6	1.0	D	399-3956-1-ND	3.75	3.27	2.85	399-3956-2-ND	500	682.50	T496D336M016AT
	47	±10	7.5	6	0.8	D	399-3960-1-ND	3.90	3.40	2.97	399-3960-2-ND	500	710.00	T496D476K016AT
	47	±20	7.5	6	0.8	D	399-3962-1-ND	3.75	3.27	2.85	399-3962-2-ND	500	682.50	T496D476M016AT
	47	±10	7.5	6	0.9	X	399-3983-1-ND	7.00	6.09	5.32	399-3983-2-ND	500	1274.00	T496X476K016AT
	47	±20	7.5	6	0.9	X	399-3985-1-ND	6.50	5.66	4.94	399-3985-2-ND	500	1183.00	T496X476M016ATE900
	100	±10	16	8	0.7	X	399-3968-1-ND	7.50	6.53	5.70	399-3968-2-ND	500	1365.00	T496X107K016ATE700
	100	±20	16	8	0.7	X	399-3970-1-ND	7.00	6.09	5.32	399-3970-2-ND	500	1274.00	T496X107M016AT
20	2.2	±10	0.5	6	3.5	B	399-3916-1-ND	1.80	1.57	1.37	399-3916-2-ND	2,000	612.00/M	T496B225K020AT
	2.2	±20	0.5	6	3.5	B	399-3918-1-ND	1.65	1.44	1.26	399-3918-2-ND	2,000	561.00/M	T496B225M020AT E3K5
	6.8	±10	1.4	6	2.0	C	399-3941-1-ND	3.00	2.61	2.28	399-3941-2-ND	500	546.00	T496C685K020AT
	6.8	±20	1.4	6	2.0	C	399-3942-1-ND	2.75	2.40	2.09	399-3942-2-ND	500	500.50	T496C685M020AT
	10	±10	2	6	2.0	C	399-3926-1-ND	3.00	2.61	2.28	399-3926-2-ND	500	546.00	T496C106K020AT
	10	±20	2	6	2.0	C	399-3929-1-ND	2.75	2.40	2.09	399-3929-2-ND	500	500.50	T496C106M020AT
	22	±10	4.4	6	1.0	D	399-3949-1-ND	3.90	3.40	2.97	399-3949-2-ND	500	710.00	T496D226K020ATE1K0
	22	±20	4.4	6	1.0	D	399-3951-1-ND	3.75	3.27	2.85	399-3951-2-ND	500	682.50	T496D226M020AT
	33	±10	6.6	6	0.9	X	399-3977-1-ND	7.00	6.09	5.32	399-3977-2-ND	500	1274.00	T496X336K020AT E900
	33	±20	6.6	6	0.9	X	399-3978-1-ND	6.50	5.66	4.94	399-3978-2-ND	500	1183.00	T496X336M020AT
	47	±10	9.4	6	0.3	X	399-3984-1-ND	7.50	6.53	5.70	399-3984-2-ND	500	1365.00	T496X476K020AT
	47	±20	9.4	6	0.3	X	399-3986-1-ND	7.00	6.09	5.32	399-3986-2-ND	500	1274.00	T496X476M020AT
25	4.7	±10	1.2	6	2.5	C	399-3939-1-ND	3.00	2.61	2.28	399-3939-2-ND	500	546.00	T496C475K025AT
	4.7	±20	1.2	6	2.5	C	399-3940-1-ND	2.75	2.40	2.09	399-3940-2-ND	500	500.50	T496C475M025AT
	10	±10	2.5	6	0.6	C	399-3927-1-ND	3.15	2.75	2.40	399-3927-2-ND	500	573.50	T496C106K025AT
	10	±20	2.5	6	0.6	C	399-3930-1-ND	2.90	2.53	2.21	399-3930-2-ND	500	528.00	T496C106M025AT
	10	±10	2.5	6	1.2	D	399-3943-1-ND	3.90	3.40	2.97	399-3943-2-ND	500	710.00	T496D106K025AT
	10	±20	2.5	6	1.2	D	399-3944-1-ND	3.75	3.27	2.85	399-3944-2-ND	500	682.50	T496D106M025AT
	22	±10	5.5	6	0.8	D	399-3950-1-ND	3.90	3.40	2.97	399-3950-2-ND	500	710.00	T496D226K025ATE800
	22	±20	5.5	6	0.8	D	399-3952-1-ND	3.75	3.27	2.85	399-3952-2-ND	500	682.50	T496D226M025AT
	22	±10	5.5	6	0.9	X	399-3973-1-ND	7.00	6.09	5.32	399-3973-2-ND	500	1274.00	T496X226K025ATE900
	22	±20	5.5	6	0.9	X	399-3974-1-ND	6.50	5.66	4.94	399-3974-2-ND	500	1183.00	T496X226M025AT
35	1.0	±10	0.5	4	5.0	B	399-3909-1-ND	1.80	1.57	1.37	399-3909-2-ND	2,000	612.00/M	T496B105K035ATE5K0
	1.0	±20	0.5	4	5.0	B	399-3910-1-ND	1.65	1.44	1.26	399-3910-2-ND	2,000	561.00/M	T496B105M035AT
	2.2	±10	0.8	6	3.5	C	399-3933-1-ND	3.00	2.61	2.28	399-3933-2-ND	500	546.00	T496C225K035AT
	2.2	±20	0.8	6	3.5	C	399-3934-1-ND	2.75	2.40	2.09	399-3934-2-ND	500	500.50	T496C225M035AT
	4.7	±10	1.7	6	1.5	D	399-3957-1-ND	3.90	3.40	2.97	399-3957-2-ND	500	710.00	T496D475K035AT
	4.7	±20	1.7	6	1.5	D	399-3958-1-ND	3.75	3.27	2.85	399-3958-2-ND	500	682.50	T496D475M035ATE1K5
	6.8	±10	2.4	6	1.3	D	399-3963-1-ND	3.90	3.40	2.97	399-3963-2-ND	500	710.00	T496D685K035AT
	6.8	±20	2.4	6	1.3	D	399-3964-1-ND	3.75	3.27	2.85	399-3964-2-ND	500	682.50	T496D685M035ATE1K3
	10	±10	3.5	6	1.0	X	399-3965-1-ND	7.25	6.31	5.51	399-3965-2-ND	500	1319.50	T496X106K035ATE500
	10	±20	3.5	6	1.0	X	399-3966-1-ND	6.50	5.66	4.94	399-3966-2-ND	500	1183.00	T496X106M035ATE1K0
	15	±10	5.3	6	0.9	X	399-3971-1-ND	7.50	6.53	5.70	399-3971-2-ND	500	1365.00	T496X156K035AT
	15	±20	5.3	6	0.9	X	399-3972-1-ND	7.00	6.09	5.32	399-3972-2-ND	500	1274.00	T496X156M035AT
50	1.0	±10	0.5	4	5.5	C	399-3923-1-ND	3.38	2.94	2.57	399-3923-2-ND	500	614.50	T496C105K050AT
	1.0	±20	0.5	4	5.5	C	399-3924-1-ND	3.30	2.88	2.51	399-3924-2-ND	500	600.50	T496C105M050AT
	4.7	±10	2.4	6	1.5	X	399-3981-1-ND	8.00	6.96	6.08	399-3981-2-ND	500	1456.00	T496X475K050ATE1K5
	4.7	±20	2.4	6	1.5	X	399-3982-1-ND	7.50	6.53	5.70	399-3982-2-ND	500	1365.00	T496X475M050AT
T498 Series, High Temperature (150°C) — RoHS Compliant														
6	33	±10	2.1	6	1.7	B	399-4753-1-ND	1.00	.87	.76	399-4753-2-ND	2,000	339.00/M	T498B336K006ATE1K7
	47	±10	3	6	0.8	C	399-4754-1-ND	1.26	1.10	.97	399-4754-2-ND	500	230.00	T498C476K006ATE800
	100	±10	6.3	8	0.6	D	399-4755-1-ND	1.80	1.57	1.37	399-4755-2-ND	500	327.00	T498D107K006ATE600
10	4.7	±10	0.5	6	2.9	A	399-4756-1-ND§	.45	.39	.34	399-4756-2-ND	2,000	151.00/M	T498A475K010ATE2K9
	22	±10	2.2	6	1.5	B	399-4757-1-ND	1.00	.87	.76	399-4757-2-ND	2,000	339.00/M	T498B226K010ATE1K5
	100	±10	10	8	0.6	D	399-4758-1-ND	2.19	1.91	1.67	399-4758-2-ND	500	399.50	T498D107K010ATE600
	220	±10	22	8	0.5	X	399-4759-1-ND	6.54	5.70	4.98	399-4759-2-ND	500	1191.00	T498X227K010ATE500
16	6.8	±10	1.1	6	2.6	A	399-4760-1-ND	.55	.48	.42	399-4760-2-ND	2,000	185.00/M	T498A685K016ATE2K6
	10	±10	1.6	6	2.8	B	399-4761-1-ND	.67	.58	.51	399-4761-2-ND	2,000	226.00/M	T498B106K016ATE2K8
	22	±10	3.5	4.5	1.6	C	399-5118-1-ND	1.26	1.10	.97	399-5118-2-ND	750	345.00	T498C226K016ZTZB12
	22	±10	3.6	6	1.0	C	399-4762-1-ND§	1.26	1.10	.97	399-4762-2-ND	500	230.00	T498C226K016ATE1K0
	47	±10	7.5	4.5	0.05	C	399-5229-1-ND ***NEW!***	1.25	1.09	.95	399-5229-2-ND ***NEW!***	750	341.25	T498C476K016ZTE500
	47	±10	8	4.5	0.08	C	399-5206-1-ND ***NEW!***	1.25	1.09	.95	399-5206-2-ND ***NEW!***	750	341.25	T498C476K016ZTE800
	100	±10	16	8	0.075	X	399-5207-1-ND ***NEW!***	7.50	6.53	5.70	399-5207-2-ND ***NEW!***	500	1365.00	T498X107K016ATE075
	100	±10	16	8	0.1	X	399-5208-1-ND ***NEW!***	7.25	6.31	5.51	399-5208-2-ND ***NEW!***	500	1319.50	T498X107K016ATE100
25	2.2	±10	0.6	6	3.0	B	399-4763-1-ND	.67	.58	.51	399-4763-2-ND	2,000	226.00/M	T498B225K025ATE3K0
	10	±10	2.5	6	1.1	C	399-4764-1-ND	1.26	1.10	.97	399-4764-2-ND	500	230.00	T498C106K025ATE1K1
	33	±10	8.3	6	0.6	D	399-4765-1-ND	5.29	4.60	4.02	399-4765-2-ND	500	962.00	T498D336K025ATE600
35	1	±10	0.5	4	10.0	A	399-4766-1-ND	.55	.48	.42	399-4766-2-ND	2,000	185.00/M	T498A105K035ATE10K
	3.3	±10	1.2	6	1.7	C	399-4767-1-ND	1.16	1.02	.89	399-4767-2-ND	500	212.00	T498C335K035ATE1K7
	10	±10	3.5	6	0.7	D	399-4768-1-ND	1.80	1.57	1.37	399-4768-2-ND	500	327.00	T498D106K035ATE700
	22	±10	7.7	6	0.7	D	399-5117-1-ND	1.82	1.58	1.38	399-5117-2-ND	750	495.75	T498D226K035ZTE700
	33	±10	11.6	6	0.5	X	399-4769-1-ND	6.54	5.70	4.98	399-4769-2-ND	500	1191.00	T498X336K035ATE500
	47	±10	16.5	6	0.5	X	399-5164-1-ND	4.18	3.64	3.18	399-5164-2-ND	400	608.80	T498X476K035ZTE500
	47	±20	16.5	6	0.5	X	399-5165-1-ND	4.18	3.64	3.18	399-5165-2-ND	400	608.80	T498X476M035ZTE500
50	10	±10	5	6	1.0	D	399-4770-1-ND	3.66	3.19	2.78	399-4770-2-ND	500	665.50	T498D106K050ATE1K0

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

Surface Mount Tantalum Chip Capacitors *(Cont.)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Qty.	Pricing	
T499 Series, High Temperature (175°C) — RoHS Compliant														
6.3	2.2	±10	0.5	6	6.5	A	399-4988-1-ND	.56	.49	.43	399-4988-2-ND	2,000	189.00/M	T499A225K006ATE6K5
	3.3	±10	0.5	6	8.0	A	399-4989-1-ND	.56	.49	.43	399-4989-2-ND	2,000	189.00/M	T499A335K006ATE8K0
	4.7	±10	0.5	6	6.0	A	399-4990-1-ND	.56	.49	.43	399-4990-2-ND	2,000	189.00/M	T499A475K006ATE6K0
	6.8	±10	0.5	6	6.0	A	399-4991-1-ND	.56	.49	.43	399-4991-2-ND	2,000	189.00/M	T499A685K006ATE6K0
	6.8	±10	0.5	6	3.5	B	399-4992-1-ND	.75	.65	.57	399-4992-2-ND	2,000	254.00/M	T499B685K006ATE3K5
	10	±10	0.6	6	3.5	B	399-4993-1-ND	.75	.65	.57	399-4993-2-ND	2,000	254.00/M	T499B106K006ATE3K5
	15	±10	0.9	6	3.5	B	399-4994-1-ND	.75	.65	.57	399-4994-2-ND	2,000	254.00/M	T499B156K006ATE3K5
	15	±10	0.9	6	1.8	C	399-4995-1-ND	1.45	1.27	1.11	399-4995-2-ND	500	264.50	T499C156K006ATE1K8
	22	±10	1.4	6	3.5	B	399-4996-1-ND	.83	.73	.64	399-4996-2-ND	2,000	282.00/M	T499B226K006ATE3K5
	22	±10	1.4	6	1.8	C	399-4997-1-ND	1.45	1.27	1.11	399-4997-2-ND	500	264.50	T499C226K006ATE1K8
	33	±10	2.1	6	3.0	B	399-4998-1-ND	1.25	1.09	.95	399-4998-2-ND	2,000	423.00/M	T499B336K006ATE3K0
	33	±10	2	6	1.8	C	399-4999-1-ND	1.45	1.27	1.11	399-4999-2-ND	500	264.50	T499C336K006ATE1K8
	47	±10	3	6	1.8	C	399-5000-1-ND	1.58	1.38	1.20	399-5000-2-ND	500	287.00	T499C476K006ATE1K8
	47	±10	2.9	6	0.8	D	399-5001-1-ND	2.24	1.95	1.71	399-5001-2-ND	500	408.00	T499D476K006ATE800
	68	±10	4.1	6	1.2	C	399-5002-1-ND	1.98	1.72	1.51	399-5002-2-ND	500	359.50	T499C686K006ATE1K2
	68	±10	4.1	6	0.8	D	399-5003-1-ND	2.24	1.95	1.71	399-5003-2-ND	500	408.00	T499D686K006ATE800
	100	±10	6.3	8	0.8	D	399-5004-1-ND	2.24	1.95	1.71	399-5004-2-ND	500	408.00	T499D107K006ATE800
	150	±10	9	8	0.7	D	399-5005-1-ND	2.74	2.39	2.09	399-5005-2-ND	500	498.50	T499D157K006ATE700
10	1.5	±10	0.5	6	8.0	A	399-5006-1-ND	.56	.49	.43	399-5006-2-ND	2,000	189.00/M	T499A155K010ATE8K0
	2.2	±10	0.5	6	8.0	A	399-5007-1-ND	.56	.49	.43	399-5007-2-ND	2,000	189.00/M	T499A225K010ATE8K0
	3.3	±10	0.5	6	6.0	A	399-5008-1-ND	.56	.49	.43	399-5008-2-ND	2,000	189.00/M	T499A335K010ATE6K0
	4.7	±10	0.5	6	6.0	A	399-5009-1-ND	.56	.49	.43	399-5009-2-ND	2,000	189.00/M	T499A475K010ATE6K0
	4.7	±10	0.5	6	3.5	B	399-5010-1-ND	.75	.65	.57	399-5010-2-ND	2,000	254.00/M	T499B475K010ATE3K5
	6.8	±10	0.7	6	6.0	A	399-5011-1-ND	.61	.53	.47	399-5011-2-ND	2,000	206.00/M	T499A685K010ATE6K0
	6.8	±10	0.7	6	3.5	B	399-5012-1-ND	.75	.65	.57	399-5012-2-ND	2,000	254.00/M	T499B685K010ATE3K5
	10	±10	1	6	3.5	B	399-5013-1-ND	.75	.65	.57	399-5013-2-ND	2,000	254.00/M	T499B106K010ATE3K5
	10	±10	1	6	1.8	C	399-5014-1-ND	1.45	1.27	1.11	399-5014-2-ND	500	264.50	T499C106K010ATE1K8
	15	±10	1.5	6	3.5	B	399-5015-1-ND	.83	.73	.64	399-5015-2-ND	2,000	282.00/M	T499B156K010ATE3K5
	15	±10	1.5	6	1.8	C	399-5016-1-ND	1.45	1.27	1.11	399-5016-2-ND	500	264.50	T499C156K010ATE1K8
	22	±10	2.2	6	3.0	B	399-5017-1-ND	1.25	1.09	.95	399-5017-2-ND	2,000	423.00/M	T499B226K010ATE3K0
	22	±10	2.2	6	1.8	C	399-5018-1-ND	1.45	1.27	1.11	399-5018-2-ND	500	264.50	T499C226K010ATE1K8
	33	±10	3.3	6	1.8	C	399-5019-1-ND	1.58	1.38	1.20	399-5019-2-ND	500	287.00	T499C336K010ATE1K8
	33	±10	3.3	6	1.6	D	399-5020-1-ND	2.24	1.95	1.71	399-5020-2-ND	500	408.00	T499D336K010ATE1K6
	47	±10	4.7	6	0.8	D	399-5021-1-ND	2.24	1.95	1.71	399-5021-2-ND	500	408.00	T499D476K010ATE800
	68	±10	6.8	6	0.8	D	399-5022-1-ND	2.24	1.95	1.71	399-5022-2-ND	500	408.00	T499D686K010ATE800
	100	±10	10	8	0.7	D	399-5023-1-ND	2.74	2.39	2.09	399-5023-2-ND	500	498.50	T499D107K010ATE700
	220	±10	22	8	0.5	X	399-5024-1-ND	8.17	7.11	6.21	399-5024-2-ND	500	1486.50	T499X227K010ATE500
16	1.0	±10	0.5	4	10.0	A	399-5025-1-ND	.56	.49	.43	399-5025-2-ND	2,000	189.00/M	T499A105K016ATE10K
	1.5	±10	0.5	6	8.0	A	399-5026-1-ND	.56	.49	.43	399-5026-2-ND	2,000	189.00/M	T499A155K016ATE8K0
	2.2	±10	0.5	6	6.0	A	399-5027-1-ND	.56	.49	.43	399-5027-2-ND	2,000	189.00/M	T499A225K016ATE6K0
	3.3	±10	0.5	6	6.0	A	399-5028-1-ND	.56	.49	.43	399-5028-2-ND	2,000	189.00/M	T499A335K016ATE6K0
	3.3	±10	0.8	6	3.5	B	399-5029-1-ND	.75	.65	.57	399-5029-2-ND	2,000	254.00/M	T499B335K016ATE3K5
	4.7	±10	0.8	6	6.0	B	399-5030-1-ND	.75	.65	.57	399-5030-2-ND	2,000	254.00/M	T499B475K016ATE6K0
	6.8	±10	1.1	6	7.0	A	399-5031-1-ND	.68	.60	.52	399-5031-2-ND	2,000	231.00/M	T499A685K016ATE7K0
	6.8	±10	1.1	6	3.5	B	399-5032-1-ND	.75	.65	.57	399-5032-2-ND	2,000	254.00/M	T499B685K016ATE3K5
	6.8	±10	1.6	6	1.8	C	399-5033-1-ND	1.45	1.27	1.11	399-5033-2-ND	500	264.50	T499C685K016ATE1K8
	10	±10	1.6	6	3.5	B	399-5034-1-ND§	.83	.73	.64	399-5034-2-ND	2,000	282.00/M	T499B106K016ATE3K5
	10	±10	1.6	6	1.8	C	399-5035-1-ND	1.45	1.27	1.11	399-5035-2-ND	500	264.50	T499C106K016ATE1K8
	15	±10	2.4	6	1.8	C	399-5036-1-ND	1.45	1.27	1.11	399-5036-2-ND	500	264.50	T499C156K016ATE1K8
	22	±10	3.6	6	1.6	C	399-5037-1-ND	1.58	1.38	1.20	399-5037-2-ND	500	287.00	T499C226K016ATE1K6
	22	±10	3.5	6	0.8	D	399-5038-1-ND	2.24	1.95	1.71	399-5038-2-ND	500	408.00	T499D226K016ATE800
	33	±10	5.3	6	0.8	D	399-5039-1-ND	2.24	1.95	1.71	399-5039-2-ND	500	408.00	T499D336K016ATE800
	47	±10	7.5	6	0.8	D	399-5040-1-ND	2.24	1.95	1.71	399-5040-2-ND	500	408.00	T499D476K016ATE800
20	0.68	±10	0.5	4	12.0	A	399-5041-1-ND	.56	.49	.43	399-5041-2-ND	2,000	189.00/M	T499A684K020ATE12K
	1.0	±10	0.5	4	10.0	A	399-5042-1-ND	.56	.49	.43	399-5042-2-ND	2,000	189.00/M	T499A105K020ATE10K
	1.5	±10	0.5	6	8.0	A	399-5043-1-ND	.56	.49	.43	399-5043-2-ND	2,000	189.00/M	T499A155K020ATE8K0
	2.2	±10	0.5	6	3.5	B	399-5044-1-ND	.75	.65	.57	399-5044-2-ND	2,000	254.00/M	T499B225K020ATE3K5
	3.3	±10	0.5	6	3.5	B	399-5045-1-ND	.75	.65	.57	399-5045-2-ND	2,000	254.00/M	T499B335K020ATE3K5
	4.7	±10	0.5	6	3.5	B	399-5046-1-ND§	.75	.65	.57	399-5046-2-ND	2,000	254.00/M	T499B475K020ATE3K5
	4.7	±10	0.9	6	2.4	C	399-5047-1-ND	1.45	1.27	1.11	399-5047-2-ND	500	264.50	T499C475K020ATE2K4
	6.8	±10	1.4	6	1.9	C	399-5048-1-ND	1.45	1.27	1.11	399-5048-2-ND	500	264.50	T499C685K020ATE1K9
	10	±10	2	6	1.8	C	399-5049-1-ND	1.45	1.27	1.11	399-5049-2-ND	500	264.50	T499C106K020ATE1K8
	15	±10	3	6	1.7	C	399-5050-1-ND	1.58	1.38	1.20	399-5050-2-ND	500	287.00	T499C156K020ATE1K7
	15	±10	3	6	1.0	D	399-5051-1-ND	2.24	1.95	1.71	399-5051-2-ND	500	408.00	T499D156K020ATE1K0
	22	±10	4.4	6	0.8	D	399-5052-1-ND	2.24	1.95	1.71	399-5052-2-ND	500	408.00	T499D226K020ATE800
25	0.47	±10	0.5	4	14.0	A	399-5053-1-ND	.56	.49	.43	399-5053-2-ND	2,000	189.00/M	T499A474K025ATE14K
	0.68	±10	0.5	4	10.0	A	399-5054-1-ND	.56	.49	.43	399-5054-2-ND	2,000	189.00/M	T499A684K025ATE10K
	1.0	±10	0.5	4	8.0	A	399-5055-1-ND§	.61	.53	.47	399-5055-2-ND	2,000	206.00/M	T499A105K025ATE8K0
	1.5	±10	0.5	6	5.0	B	399-5056-1-ND	.75	.65	.57	399-5056-2-ND	2,000	254.00/M	T499B155K025ATE5K0
	2.2	±10	0.6	6	4.5	B	399-5057-1-ND	.83	.73	.64	399-5057-2-ND	2,000	282.00/M	T499B225K025ATE4K5
	3.3	±10	0.8	6	2.5	C	399-5058-1-ND	1.45	1.27	1.11	399-5058-2-ND	500	264.50	T499C335K025ATE2K5
	4.7	±10	1.2	6	2.4	C	399-5059-1-ND	1.45	1.27	1.11	399-5059-2-ND	500	264.50	T499C475K025ATE2K4
	6.8	±10	1.7	6	1.9	C	399-5060-1-ND	1.45	1.27	1.11	399-5060-2-ND	500	264.50	T499C685K025ATE1K9
	6.8	±10	1.7	6	1.1	D	399-5061-1-ND	2.24	1.95	1.71	399-5061-2-ND	500	408.00	T499D685K025ATE1K1
	10	±10	2	6	1.5	C	399-5062-1-ND	1.58	1.38	1.20	399-5062-2-ND	500	287.00	T499C106K025ATE1K5
	10	±10	2.5	6	1.0	D	399-5063-1-ND	2.24	1.95	1.71	399-5063-2-ND	500	408.00	T499D106K025ATE1K0
	15	±10	3.8	6	1.0	D	399-5064-1-ND§	2.24	1.95	1.71	399-5064-2-ND	500	408.00	T499D156K025ATE1K0
	22	±10	5.5	6	0.8	D	399-5065-1-ND	2.24	1.95	1.71	399-5065-2-ND	500	408.00	T499D226K025ATE800
	33	±10	8.3	6	0.7	D	399-5066-1-ND	6.60	5.75	5.02	399-5066-2-ND	500	1201.00	T499D336K025ATE700
35	0.15	±10	0.5	4	19.0	A	399-5067-1-ND	.56	.49	.43	399-5067-2-ND	2,000	189.00/M	T499A154K035ATE19K
	0.22	±10	0.5	4	18.0	A	399-5068-1-ND	.56	.49	.43	399-5068-2-ND	2,000	189.00/M	T499A224K035ATE18K
	0.33	±10	0.5	4	15.0	A	399-5069-1-ND	.56	.49	.43	399-5069-2-ND	2,000	189.00/M	T499A334K035ATE15K
	0.47	±10	0.5	4	8.0	B	399-5070-1-ND	.75	.65	.57	399-5070-2-ND	2,000	254.00/M	T499B474K035ATE8K0
	0.68	±10	0.5	4	6.5	B	399-5071-1-ND	.75	.65	.57	399-5071-2-ND	2,000	254.00/M	T499B684K035ATE6K5
	1.0	±10	0.5	4	10.0	A	399-5072-1-ND	.68	.60	.52	399-5072-2-ND	2,000	231.00/M	T499A105K035ATE10K
	1.0	±10	0.5	4	5.0	B	399-5073-1-ND§	.75	.65	.57	399-5073-2-ND	2,000	254.00/M	T499B105K035ATE5K0
	1.5	±10	0.5	6	4.5	C	399-5074-1-ND	1.45	1.27	1.11	399-5074-2-ND	500	264.50	T499C155K035ATE4K5
	2.2	±10	0.5	6	3.5	C	399-5075-1-ND	1.45	1.27	1.11	399-5075-2-ND	500	264.50	T499C225K035ATE3K5
	3.3	±10	1.2	6	2.5	C	399-5076-1-ND	1.45	1.27	1.11	399-5076-2-ND	500	264.50	T499C335K035ATE2K5
	4.7	±10	1.3	6	2.5	C	399-5077-1-ND	1.58	1.38	1.20	399-5077-2-ND	500	287.00	T499C475K035ATE2K5
	4.7	±10	1	6	1.5	D	399-5078-1-ND	2.24	1.95	1.71	399-5078-2-ND	500	408.00	T499D475K035ATE1K5
	6.8	±10	2.4	6	1.3	D	399-5079-1-ND	2.24	1.95	1.71	399-5079-2-ND	500	408.00	T499D685K035ATE1K3
	10	±10	3.5	6	1.0	D	399-5080-1-ND§	2.24	1.95	1.71	399-5080-2-ND	500	408.00	T499D106K035ATE1K0
	22	±10	7.7	6	0.7	X	399-5081-1-ND§	6.60	5.75	5.02	399-5081-2-ND	500	1201.00	T499X226K035ATE700
	33	±10	11.6	6	0.6	X	399-5082-1-ND	8.17	7.11	6.21	399-5082-2-ND	500	1486.50	T499X336K035ATE600
50	3.3	±10	1.7	6	2.0	D	399-5083-1-ND	3.65	3.18	2.78	399-5083-2-ND	500	664.50	T499D335K050ATE2K0
	10	±10	5	6	1.0	D	399-5084-1-ND§	4.57	3.98	3.47	399-5084-2-ND	500	831.00	T499D106K050ATE1K0
T510 Series, Ultra-Low ESR														
4	680	±10	27.2	6	0.03	X	399-1749-1-ND	14.75	12.84	11.21	—	—	—	T510X687K004AS
	680	±20	27.2	6	0.03	X	399-1750-1-ND	14.00	12.18	10.64	—	—	—	T510X687M004AS
	1000	±10	40	6	0.01	E	399-1742-1-ND	18.50	16.10	14.06	—	—	—	T510E108K004AS4115

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Qty.	Pricing	
T510 Series, Ultra-Low ESR — RoHS Compliant														
4	680	±10	27.2	6	0.03	X	399-4002-1-ND	14.75	12.84	11.21	399-4002-2-ND	500	2684.50	T510X687K004AT
	680	±20	27.2	6	0.03	X	399-4003-1-ND	14.00	12.18	10.64	399-4003-2-ND	500	2548.00	T510X687M004AT
	680	±20	27.2	6	0.03	X	399-5269-1-ND◊ ***NEW!***	14.00	12.18	10.64	399-5269-2-ND ***NEW!***	500	2548.00	T510X687M004ATE030
	1000	±10	40	6	0.018	E	399-3990-1-ND	18.00	15.66	13.68	399-3990-2-ND	500	3276.00	T510E108K004AT
	1000	±10	40	6	0.01	E	399-3991-1-ND	18.50	16.10	14.06	399-3991-2-ND	500	3367.00	T510E108K004ATE010
	1000	±20	40	6	0.018	E	399-3992-1-ND	16.75	14.58	12.73	399-3992-2-ND	500	3048.50	T510E108M004ATE018
	1000	±20	40	6	0.01	E	399-3993-1-ND	17.25	15.01	13.11	399-3993-2-ND	500	3139.50	T510E108M004ATE010
6.3	470	±10	28.2	6	0.03	X	399-4000-1-ND	14.75	12.84	11.21	399-4000-2-ND	500	2684.50	T510X477K006ATE030
	470	±20	28.2	6	0.03	X	399-4001-1-ND	14.00	12.18	10.64	399-4001-2-ND	500	2548.00	T510X477M006AT
	680	±10	40.8	6	0.023	E	399-3994-1-ND	18.00	15.66	13.68	399-3994-2-ND	500	3276.00	T510E687K006AT
	680	±10	40.8	6	0.012	E	399-3995-1-ND	18.50	16.10	14.06	399-3995-2-ND	500	3367.00	T510E687K006ATE012
	680	±20	40.8	6	0.023	E	399-3996-1-ND◊	16.75	14.58	12.73	399-3996-2-ND	500	3048.50	T510E687M006ATE023
	680	±20	40.8	6	0.012	E	399-3997-1-ND	17.25	15.01	13.11	399-3997-2-ND	500	3139.50	T510E687M006ATE012
10	330	±10	33	6	0.035	X	399-3998-1-ND	14.75	12.84	11.21	399-3998-2-ND	500	2684.50	T510X337K010AT
	330	±20	33	6	0.035	X	399-3999-1-ND	14.00	12.18	10.64	399-3999-2-ND	500	2548.00	T510X337M010AT
16	220	±10	35.2	10	0.04	X	399-4805-1-ND	14.75	12.84	11.21	399-4805-2-ND	500	2684.50	T510X227K016ATE040
20	100	±20	20	6	0.04	X	399-4651-1-ND	12.60	12.18	10.64	399-4651-2-ND	500	2548.00	T510X107M020AT
25	68	±10	17	8	0.045	X	399-5230-1-ND ***NEW!***	14.75	12.84	11.21	399-5230-2-ND ***NEW!***	500	2684.50	T510X686K025ATE045
	100	±20	25	8	0.05	E	399-3989-1-ND	16.25	14.14	12.35	399-3989-2-ND	500	2957.50	T510E107M025AT E050
50	10	±10	5	8	0.12	X	399-4806-1-ND	16.50	14.36	12.54	399-4806-2-ND	500	3003.00	T510X106K050ATE120
	10	±10	5	8	0.09	X	399-4807-1-ND	17.00	14.79	12.92	399-4807-2-ND	2,000	5780.00/M	T510X106K050ATE090
T520 Series, KO-CAP Polymer Tantalum														
2	470	±20	94	10	0.04	V	399-3156-1-ND	4.50	3.92	3.42	399-3156-2-ND	1,000	1530.00	T520V477M002ASE040
2.5	100	±20	25	8	0.07	B	399-3157-1-ND	1.10	.96	.84	399-3157-2-ND	2,000	374.00/M	T520B107M2R5ASE070
	100	±20	25	8	0.04	B	399-3314-1-ND	1.30	1.14	.99	399-3314-2-ND	2,000	442.00/M	T520B107M2R5ASE040
	220	±20	55	8	0.07	B	399-3375-1-ND	1.25	1.09	.95	399-3375-2-ND	2,000	425.00/M	T520B227M2R5ASE070
	220	±20	55	10	0.015	V	399-3238-1-ND	4.00	3.48	3.04	399-3238-2-ND	1,000	1360.00	T520V227M2R5ASE015
	220	±20	55	10	0.012	V	399-3392-1-ND	4.00	3.48	3.04	399-3392-2-ND	1,000	1360.00	T520V227M2R5ASE012
	220	±20	55	10	0.009	V	399-3391-1-ND	4.25	3.70	3.23	399-3391-2-ND	1,000	1445.00	T520V227M2R5ASE009
	330	±20	83	10	0.015	V	399-3241-1-ND	4.75	4.14	3.61	—	—	—	T520V337M2R5ASE015
	470	±20	118	10	0.009	V	399-3395-1-ND	5.00	4.35	3.80	—	—	—	T520V477M2R5ASE009
	470	±20	118	10	0.015	V	399-3158-1-ND	4.50	3.92	3.42	399-3158-2-ND	1,000	1530.00	T520V477M2R5ASE015
	680	±20	170	10	0.015	D	399-3243-1-ND	4.75	4.14	3.61	—	—	—	T520D687M2R5ASE015
3	100	±20	30	8	0.07	B	399-3059-1-ND	1.10	.96	.84	—	—	—	T520B107M003ASE070
	100	±20	30	8	0.04	B	399-3315-1-ND	1.30	1.14	.99	399-3315-2-ND	2,000	442.00/M	T520B107M003ASE040
	150	±20	45	8	0.04	B	399-3316-1-ND	1.45	1.27	1.11	399-3316-2-ND	2,000	493.00/M	T520B157M003ASE040
	330	±20	99	10	0.025	V	399-3161-1-ND	4.50	3.92	3.42	399-3161-2-ND	1,000	1530.00	T520V337M003ASE025
	680	±20	204	10	0.04	D	399-3163-1-ND	4.50	3.92	3.42	399-3163-2-ND	500	819.00	T520D687M003ASE040
	1000	±20	300	10	0.03	X	399-3165-1-ND	9.00	7.83	6.84	—	—	—	T520X108M003ASE030
	1000	±20	300	10	0.015	X	399-3166-1-ND	9.25	8.05	7.03	399-3166-2-ND	500	1683.50	T520X108M003ASE015
4	68	±20	27	8	0.04	B	399-3317-1-ND	1.30	1.14	.99	—	—	—	T520B686M004ASE040
	100	±20	40	8	0.04	B	399-3318-1-ND	1.30	1.14	.99	—	—	—	T520B107M004ASE040
	150	±20	60	10	0.025	V	399-3247-1-ND	3.75	3.27	2.85	399-3247-2-ND	1,000	1275.00	T520V157M004ASE025
	150	±20	60	10	0.012	V	399-3384-1-ND	4.00	3.48	3.04	399-3384-2-ND	1,000	1360.00	T520V157M004ASE012
	150	±20	60	10	0.009	V	399-3383-1-ND	4.25	3.70	3.23	399-3383-2-ND	1,000	1445.00	T520V157M004ASE009
	220	±20	88	10	0.065	D	399-3321-1-ND	1.85	1.61	1.41	399-3321-2-ND	500	336.70	T520D227M004ASE065
	220	±20	88	10	0.045	V	399-1755-1-ND	3.75	3.27	2.85	—	—	—	T520V227M004ASE045
	220	±20	88	10	0.025	V	399-1756-1-ND	4.00	3.48	3.04	—	—	—	T520V227M004ASE025
	220	±20	88	10	0.009	V	399-3387-1-ND	4.50	3.92	3.42	399-3387-2-ND	1,000	1530.00	T520V227M004ASE009
	330	±20	132	10	0.045	D	399-3252-1-ND	1.85	1.61	1.41	—	—	—	T520D337M004ASE045
	330	±20	132	10	0.009	D	399-3378-1-ND	2.60	2.27	1.98	—	—	—	T520D337M004ASE009
	330	±20	132	10	0.04	V	399-3251-1-ND	3.75	3.27	2.85	399-3251-2-ND	1,000	1275.00	T520V337M004ASE040
	330	±20	132	10	0.012	V	399-3394-1-ND	4.25	3.70	3.23	—	—	—	T520V337M004ASE012
	330	±20	132	10	0.009	V	399-3393-1-ND	4.50	3.92	3.42	399-3393-2-ND	1,000	1530.00	T520V337M004ASE009
	680	±20	272	10	0.035	X	399-3169-1-ND	9.00	7.83	6.84	—	—	—	T520X687M004ASE035
	680	±20	272	10	0.015	X	399-3170-1-ND	9.25	8.05	7.03	—	—	—	T520X687M004ASE015
6.3	33	±20	21	8	0.07	B	399-3171-1-ND	1.10	.96	.84	—	—	—	T520B336M006ASE070
	100	±20	63	10	0.012	V	399-3382-1-ND	4.00	3.48	3.04	—	—	—	T520V107M006ASE012
	150	±20	94.5	10	0.025	D	399-3334-1-ND	2.10	1.83	1.60	—	—	—	T520D157M006ASE025
	150	±20	95	10	0.045	V	399-1758-1-ND	3.75	3.27	2.85	—	—	—	T520V157M006ASE045
	150	±20	95	10	0.04	V	399-3255-1-ND	3.75	3.27	2.85	399-3255-2-ND	1,000	1275.00	T520V157M006ASE040
	150	±20	95	10	0.025	V	399-3174-1-ND	4.00	3.48	3.04	399-3174-2-ND	1,000	1360.00	T520V157M006ASE025
	150	±20	95	10	0.012	V	399-3386-1-ND	4.25	3.70	3.23	399-3386-2-ND	1,000	1445.00	T520V157M006ASE012
	150	±20	95	10	0.009	V	399-3385-1-ND	4.50	3.92	3.42	—	—	—	T520V157M006ASE009
	220	±20	139	10	0.04	V	399-3175-1-ND	4.50	3.92	3.42	399-3175-2-ND	1,000	1530.00	T520V227M006ASE040
	220	±20	139	10	0.025	V	399-3176-1-ND	4.75	4.14	3.61	—	—	—	T520V227M006ASE025
	220	±20	139	10	0.012	V	399-3390-1-ND	5.00	4.35	3.80	—	—	—	T520V227M006ASE012
8	33	±20	27	8	0.07	B	399-3256-1-ND	1.10	.96	.84	399-3256-2-ND	2,000	374.00/M	T520B336M008ASE070
	150	±20	120	10	0.04	D	399-3258-1-ND	3.75	3.27	2.85	399-3258-2-ND	500	682.50	T520D157M008ASE040
	150	±20	120	10	0.025	D	399-3257-1-ND	4.00	3.48	3.04	399-3257-2-ND	500	728.00	T520D157M008ASE025
10	68	±20	68	10	0.06	V	399-1766-1-ND	3.75	3.27	2.85	—	—	—	T520V686M010ASE060
	68	±20	68	10	0.045	V	399-3330-1-ND	4.00	3.48	3.04	—	—	—	T520V686M010ASE045
	100	±20	100	10	0.05	V	399-3179-1-ND	4.25	3.70	3.23	—	—	—	T520V107M010ASE050
16	47	±20	75	10	0.07	D	399-3102-1-ND	3.25	2.83	2.47	399-3102-2-ND	500	591.50	T520D476M016ASE070
	47	±20	76	10	0.07	V	399-3331-1-ND	4.50	3.92	3.42	—	—	—	T520V476M016ASE070
T520 Series, KO-CAP Polymer Tantalum — RoHS Compliant														
2	470	±20	94	10	0.04	V	399-4107-1-ND	4.50	3.92	3.42	399-4107-2-ND	1,000	1530.00	T520V477M002ATE040
2.5	47	±20	12	8	0.09	A	399-4708-1-ND	.85	.74	.65	399-4708-2-ND	2,000	289.00/M	T520A476M2R5ATE090
	68	±20	17	8	0.07	A	399-4709-1-ND	1.00	.87	.76	399-4709-2-ND	2,000	340.00/M	T520A686M2R5ATE070
	100	±20	25	8	0.025	B	399-5144-1-ND	1.70	1.48	1.30	399-5144-2-ND	2,000	578.00/M	T520B107M2R5ATE025
	100	±20	25	8	0.07	B	399-4011-1-ND	1.10	.96	.84	399-4011-2-ND	2,000	374.00/M	T520B107M2R5ATE070
	100	±20	25	8	0.04	B	399-4010-1-ND	1.30	1.14	.99	399-4010-2-ND	2,000	442.00/M	T520B107M2R5ATE040
	220	±20	55	8	0.03	B	399-4729-1-ND	1.65	1.44	1.26	399-4729-2-ND	2,000	561.00/M	T520B227M2R5ATE030
	220	±20	55	8	0.025	C	399-4808-1-ND	2.00	1.74	1.52	399-4808-2-ND	500	364.00	T520C227M2R5ATE025
	220	±20	55	8	0.035	B	399-3469-1-ND	1.45	1.27	1.11	399-3469-2-ND	2,000	493.00/M	T520B227M2R5ATE035
	220	±20	55	8	0.045	C	399-4652-1-ND	1.58	1.53	1.33	399-4652-2-ND	500	318.50	T520C227M2R5ATE045
	220	±20	55	8	0.07	B	399-4016-1-ND	1.25	1.09	.95	399-4016-2-ND	2,000	425.00/M	T520B227M2R5ATE070
	220	±20	55	10	0.007	V	399-4710-1-ND	4.50	3.92	3.42	399-4710-2-ND	1,000	1530.00	T520V227M2R5ATE007
	220	±20	55	10	0.007	D	399-4722-1-ND	4.00	3.48	3.04	399-4722-2-ND	1,000	1360.00	T520D227M2R5ATE007
	220	±20	55	10	0.045	V	399-4093-1-ND	3.50	3.05	2.66	399-4093-2-ND	1,000	1190.00	T520V227M2R5ATE045
	220	±20	55	10	0.025	V	399-4092-1-ND	3.75	3.27	2.85	399-4092-2-ND	1,000	1275.00	T520V227M2R5ATE025

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

Surface Mount Tantalum Chip Capacitors *(Cont.)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Kemet Part No.
2.5	220	±20	55	10	0.015	V	399-4091-1-ND	4.00	3.48	3.04	399-4091-2-ND	1,000	1360.00	T520V227M2R5ATE015
	220	±20	55	10	0.012	V	399-4090-1-ND	4.00	3.48	3.04	399-4090-2-ND	1,000	1360.00	T520V227M2R5ATE012
	220	±20	55	10	0.009	V	399-4089-1-ND	4.25	3.70	3.23	399-4089-2-ND	1,000	1445.00	T520V227M2R5ATE009
	330	±20	83	10	0.007	D	399-4712-1-ND	5.25	4.57	3.99	399-4712-2-ND	500	955.50	T520D337M2R5ATE007
	330	±20	83	10	0.04	W	399-4809-1-ND	4.75	4.14	3.61	399-4809-2-ND	1,000	1615.00	T520W337M2R5ATE040
	330	±20	83	10	0.007	V	399-4711-1-ND	5.50	4.79	4.18	399-4711-2-ND	1,000	1870.00	T520V337M2R5ATE007
	330	±20	83	10	0.04	V	399-4653-1-ND	4.05	3.92	3.42	399-4653-2-ND	1,000	1530.00	T520V337M2R5ATE040
	330	±20	83	10	0.025	L	399-5134-1-ND	3.63	3.16	2.76	399-5134-2-ND	1,000	1233.00	T520L337M2R5ATE025
	330	±20	83	10	0.025	V	399-4105-1-ND	4.50	3.92	3.42	399-4105-2-ND	1,000	1530.00	T520V337M2R5ATE025
	330	±20	83	10	0.015	V	399-4104-1-ND	4.75	4.14	3.61	399-4104-2-ND	1,000	1615.00	T520V337M2R5ATE015
	330	±20	99	10	0.009	V	399-4103-1-ND	5.00	4.35	3.80	399-4103-2-ND	1,000	1700.00	T520V337M2R5ATE009
	470	±20	118	10	0.007	D	399-4654-1-ND	4.73	4.57	3.99	399-4654-2-ND	500	955.50	T520D477M2R5ATE007
	470	±20	118	10	0.009	D	399-4062-1-ND	5.00	4.35	3.80	399-4062-2-ND	500	910.00	T520D477M2R5ATE009
	470	±20	118	10	0.009	V	399-4108-1-ND	5.00	4.35	3.80	399-4108-2-ND	1,000	1700.00	T520V477M2R5ATE009
	470	±20	118	10	0.015	V	399-4110-1-ND	4.50	3.92	3.42	399-4110-2-ND	1,000	1530.00	T520V477M2R5ATE015
	470	±20	118	10	0.012	V	399-4109-1-ND	4.75	4.14	3.61	399-4109-2-ND	1,000	1615.00	T520V477M2R5ATE012
	680	±20	170	10	0.04	D	399-4066-1-ND	4.50	3.92	3.42	399-4066-2-ND	500	819.00	T520D687M2R5ATE040
	680	±20	170	10	0.015	D	399-4065-1-ND	4.75	4.14	3.61	399-4065-2-ND	500	864.50	T520D687M2R5ATE015
	1000	±20	250	10	0.03	D	399-4744-1-ND	4.50	3.92	3.42	399-4744-2-ND	500	819.00	T520D108M2R5ATE030
3	100	±20	30	8	0.07	B	399-4005-1-ND	1.10	.96	.84	399-4005-2-ND	2,000	374.00/M	T520B107M003ATE070
	100	±20	30	8	0.04	B	399-4004-1-ND	1.30	1.14	.99	399-4004-2-ND	2,000	442.00/M	T520B107M003ATE040
	100	±20	30	8	0.025	B	399-5145-1-ND	1.70	1.48	1.30	399-5145-2-ND	2,000	578.00/M	T520B107M003ATE025
	150	±20	45	8	0.025	B	399-5135-1-ND	1.85	1.61	1.41	399-5135-2-ND	2,000	629.00/M	T520B157M003ATE025
	150	±20	45	8	0.07	B	399-4013-1-ND	1.25	1.09	.95	399-4013-2-ND	2,000	425.00/M	T520B157M003ATE070
	150	±20	45	8	0.04	B	399-4012-1-ND	1.45	1.27	1.11	399-4012-2-ND	2,000	493.00/M	T520B157M003ATE040
	330	±20	99	10	0.015	V	399-4095-1-ND	4.75	4.14	3.61	399-4095-2-ND	1,000	1615.00	T520V337M003ATE015
	330	±20	99	10	0.025	V	399-4096-1-ND	4.50	3.92	3.42	399-4096-2-ND	1,000	1530.00	T520V337M003ATE025
	680	±20	204	10	0.04	D	399-4064-1-ND	4.50	3.92	3.42	399-4064-2-ND	500	819.00	T520D687M003ATE040
	680	±20	204	10	0.015	D	399-4063-1-ND	4.75	4.14	3.61	399-4063-2-ND	500	864.50	T520D687M003ATE015
	1000	±20	300	10	0.03	X	399-4114-1-ND	9.00	7.83	6.84	399-4114-2-ND	500	1638.00	T520X108M003ATE030
	1000	±20	300	10	0.015	X	399-4113-1-ND	9.25	8.05	7.03	399-4113-2-ND	500	1683.50	T520X108M003ATE015
4	15	±20	6	8	0.1	T	399-3245-1-ND	1.25	1.09	.95	399-3245-2-ND	2,500	425.00/M	T520T156M004ATE100
	33	±20	13	8	0.07	A	399-4713-1-ND	1.00	.87	.76	399-4713-2-ND	2,000	340.00/M	T520A336M004ATE070
	47	±20	19	8	0.07	A	399-4714-1-ND	1.05	.92	.80	399-4714-2-ND	2,000	357.00/M	T520A476M004ATE070
	47	±20	19	8	0.07	T	399-3380-1-ND	1.35	1.18	1.03	399-3380-2-ND	2,500	459.00/M	T520T476M004ATE070
	68	±20	27	8	0.025	B	399-5136-1-ND	1.70	1.48	1.30	399-5136-2-ND	2,000	578.00/M	T520B686M004ATE025
	68	±20	27	8	0.04	B	399-4025-1-ND	1.30	1.14	.99	399-4025-2-ND	2,000	442.00/M	T520B686M004ATE040
	68	±20	27	8	0.07	B	399-4026-1-ND	1.10	.96	.84	399-4026-2-ND	2,000	374.00/M	T520B686M004ATE070
	100	±20	40	8	0.025	B	399-5146-1-ND	1.50	1.31	1.14	399-5146-2-ND	2,000	510.00/M	T520B107M004ATE025
	100	±20	40	8	0.035	B	399-4715-1-ND	1.30	1.14	.99	399-4715-2-ND	2,000	442.00/M	T520B107M004ATE035
	100	±20	40	8	0.07	B	399-4007-1-ND	1.10	.96	.84	399-4007-2-ND	2,000	374.00/M	T520B107M004ATE070
	100	±20	40	8	0.04	B	399-4006-1-ND	1.30	1.14	.99	399-4006-2-ND	2,000	442.00/M	T520B107M004ATE040
	150	±20	60	8	0.025	C	399-4810-1-ND	2.00	1.74	1.52	399-4810-2-ND	500	364.00	T520C157M004ATE025
	150	±20	60	8	0.03	B	399-4728-1-ND	1.65	1.44	1.26	399-4728-2-ND	2,000	561.00/M	T520B157M004ATE030
	150	±20	60	8	0.04	B	399-4014-1-ND	1.45	1.27	1.11	399-4014-2-ND	2,000	493.00/M	T520B157M004ATE040
	150	±20	60	8	0.07	B	399-4015-1-ND	1.25	1.09	.95	399-4015-2-ND	2,000	425.00/M	T520B157M004ATE070
	150	±20	60	8	0.045	C	399-4655-1-ND	1.58	1.53	1.33	399-4655-2-ND	500	318.50	T520C157M004ATE045
	150	±20	60	10	0.007	D	399-4723-1-ND	2.85	2.48	2.17	399-4723-2-ND	500	518.50	T520D157M004ATE007
	150	±20	60	10	0.007	V	399-4716-1-ND	4.50	3.92	3.42	399-4716-2-ND	1,000	1530.00	T520V157M004ATE007
	150	±20	60	10	0.025	V	399-4075-1-ND	3.75	3.27	2.85	399-4075-2-ND	1,000	1275.00	T520V157M004ATE025
	150	±20	60	10	0.012	V	399-4073-1-ND	4.00	3.48	3.04	399-4073-2-ND	1,000	1360.00	T520V157M004ATE012
	150	±20	60	10	0.009	V	399-4072-1-ND	4.25	3.70	3.23	399-4072-2-ND	1,000	1445.00	T520V157M004ATE009
	150	±20	60	10	0.015	V	399-4074-1-ND	4.00	3.48	3.04	399-4074-2-ND	1,000	1360.00	T520V157M004ATE015
	220	±20	88	8	0.045	B	399-4731-1-ND	1.45	1.27	1.11	399-4731-2-ND	2,000	493.00/M	T520B227M004ATE045
	220	±20	88	8	0.07	B	399-4730-1-ND	1.25	1.09	.95	399-4730-2-ND	2,000	425.00/M	T520B227M004ATE070
	220	±20	88	10	0.025	L	399-5137-1-ND	3.63	3.16	2.76	399-5137-2-ND	2,000	1233.00/M	T520L227M004ATE025
	220	±20	88	8	0.018	C	399-5233-1-ND ***NEW!***	2.25	1.96	1.71	399-5233-2-ND ***NEW!***	500	409.50	T520C227M004ATE018
	220	±20	88	8	0.015	C	399-5232-1-ND ***NEW!***	2.50	2.18	1.90	399-5232-2-ND ***NEW!***	500	455.00	T520C227M004ATE015
	220	±20	88	10	0.012	D	399-4734-1-ND	2.35	2.05	1.79	399-4734-2-ND	500	427.50	T520D227M004ATE012
	220	±20	88	10	0.007	D	399-4724-1-ND	2.85	2.48	2.17	399-4724-2-ND	500	518.50	T520D227M004ATE007
	220	±20	88	10	0.007	V	399-4717-1-ND	4.75	4.14	3.61	399-4717-2-ND	1,000	1615.00	T520V227M004ATE007
	220	±20	88	10	0.04	W	399-4811-1-ND	4.25	3.70	3.23	399-4811-2-ND	1,000	1445.00	T520W227M004ATE040
	220	±20	88	10	0.065	D	399-4041-1-ND	1.85	1.61	1.41	399-4041-2-ND	500	336.50	T520D227M004ATE065
	220	±20	88	10	0.045	V	399-4084-1-ND	3.75	3.27	2.85	399-4084-2-ND	1,000	1275.00	T520V227M004ATE045
	220	±20	88	10	0.025	V	399-4083-1-ND	4.00	3.48	3.04	399-4083-2-ND	1,000	1360.00	T520V227M004ATE025
	220	±20	88	10	0.012	V	399-4082-1-ND	4.25	3.70	3.23	399-4082-2-ND	1,000	1445.00	T520V227M004ATE012
	220	±20	88	10	0.009	V	399-4081-1-ND	4.50	3.92	3.42	399-4081-2-ND	1,000	1530.00	T520V227M004ATE009
	330	±20	132	10	0.007	V	399-4656-1-ND	4.28	4.14	3.61	399-4656-2-ND	1,000	1615.00	T520V337M004ATE007
	330	±20	132	10	0.007	D	399-4657-1-ND	2.57	2.48	2.17	399-4657-2-ND	500	518.50	T520D337M004ATE007
	330	±20	132	10	0.045	D	399-4051-1-ND	1.85	1.61	1.41	399-4051-2-ND	500	336.50	T520D337M004ATE045
	330	±20	132	10	0.04	D	399-4050-1-ND	2.10	1.83	1.60	399-4050-2-ND	500	382.00	T520D337M004ATE040
	330	±20	132	10	0.015	D	399-4049-1-ND	2.35	2.05	1.79	399-4049-2-ND	500	427.50	T520D337M004ATE015
	330	±20	132	10	0.009	D	399-4048-1-ND	2.60	2.27	1.98	399-4048-2-ND	500	473.00	T520D337M004ATE009
	330	±20	132	10	0.04	V	399-4100-1-ND	3.75	3.27	2.85	399-4100-2-ND	1,000	1275.00	T520V337M004ATE040
	330	±20	132	10	0.025	V	399-4099-1-ND	4.00	3.48	3.04	399-4099-2-ND	1,000	1360.00	T520V337M004ATE025
	330	±20	132	10	0.012	V	399-4098-1-ND	4.25	3.70	3.23	399-4098-2-ND	1,000	1445.00	T520V337M004ATE012
	330	±20	132	10	0.009	V	399-4097-1-ND	4.50	3.92	3.42	399-4097-2-ND	1,000	1530.00	T520V337M004ATE009
	470	±20	188	10	0.04	D	399-4061-1-ND	2.15	1.88	1.64	399-4061-2-ND	500	391.50	T520D477M004ATE040
	470	±20	188	10	0.025	D	399-4060-1-ND	2.40	2.09	1.83	399-4060-2-ND	500	437.00	T520D477M004ATE025
	470	±20	188	10	0.018	D	399-4059-1-ND	2.40	2.09	1.83	399-4059-2-ND	500	437.00	T520D477M004ATE018
	470	±20	188	10	0.015	D	399-4058-1-ND	2.65	2.31	2.02	399-4058-2-ND	500	482.50	T520D477M004ATE015
	470	±20	188	10	0.012	D	399-4057-1-ND	2.65	2.31	2.02	399-4057-2-ND	500	482.50	T520D477M004ATE012
	680	±20	272	10	0.035	X	399-4120-1-ND	9.00	7.83	6.84	399-4120-2-ND	500	1638.00	T520X687M004ATE035
	680	±20	272	10	0.015	X	399-4119-1-ND	9.25	8.05	7.03	399-4119-2-ND	500	1683.50	T520X687M004ATE015
	680	±20	272	10	0.015	Y	399-5273-1-ND ***NEW!***	5.50	4.79	4.18	399-5273-2-ND ***NEW!***	500	1001.00	T520Y687M004ATE015
6.3	15	±20	9.5	8	0.1	T	399-3254-1-ND	1.25	1.09	.95	399-3254-2-ND	2,500	425.00/M	T520T156M006ATE100
	22	±20	14	8	0.09	A	399-4718-1-ND	1.00	.87	.76	399-4718-2-ND	2,000	340.00/M	T520A226M006ATE090
	22	±20	14	8	0.1	A	399-5271-1-ND ***NEW!***	.85	.74	.65	399-5271-2-ND ***NEW!***	2,000	289.00/M	T520A226M006ATE100
	33	±20	20.8	8	0.07	T	399-3354-1-ND	1.35	1.18	1.03	399-3354-2-ND	2,500	459.00/M	T520T336M006ATE070
	33	±20	21	8	0.07	A	399-4719-1-ND	1.05	.92	.80	399-4719-2-ND	2,000	357.00/M	T520A336M006ATE070
	33	±20	21	8	0.07	B	399-4018-1-ND	1.10	.96	.84	399-4018-2-ND	2,000	374.00/M	T520B336M006ATE070
	33	±20	21	8	0.04	B	399-4017-1-ND	1.30	1.14	.99	399-4017-2-ND	2,000	442.00/M	T520B336M006ATE040
	33	±20	21	8	0.025	B	399-5122-1-ND	1.70	1.48	1.30	399-5122-2-ND	2,000	578.00/M	T520B336M006ATE025
	47	±20	30	8	0.07	B	399-4024-1-ND	1.10	.96	.84	399-4024-2-ND	2,000	374.00/M	T520B476M006ATE070
	47	±20	30	8	0.07	T	399-3470-1-ND	1.35	1.18	1.03	399-3470-2-ND	2,500	459.00/M	T520T476M006ATE070

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Qty.	Pricing	
6.3	47	±20	30	8	0.04	B	399-4023-1-ND	1.30	1.14	.99	399-4023-2-ND	2,000	442.00/M	T520B476M006ATE040
	47	±20	30	8	0.04	T	399-4977-1-ND	1.55	1.35	1.18	399-4977-2-ND	2,500	527.00/M	T520T476M006ATE040
	47	±20	30	8	0.025	B	399-5138-1-ND	1.70	1.48	1.30	399-5138-2-ND	2,000	578.00/M	T520B476M006ATE025
	68	±20	43	8	0.07	B	399-4028-1-ND	1.10	.96	.84	399-4028-2-ND	2,000	374.00/M	T520B686M006ATE070
	68	±20	43	8	0.04	B	399-4027-1-ND	1.30	1.14	.99	399-4027-2-ND	2,000	442.00/M	T520B686M006ATE040
	68	±20	43	8	0.025	B	399-5231-1-ND ***NEW!***	1.70	1.48	1.30	399-5231-2-ND ***NEW!***	2,000	578.00/M	T520B686M006ATE025
	100	±20	63	8	0.07	B	399-4009-1-ND	1.20	1.05	.92	399-4009-2-ND	2,000	408.00/M	T520B107M006ATE070
	100	±20	63	10	0.015	V	399-5210-1-ND ***NEW!***	4.00	3.48	3.04	399-5210-2-ND ***NEW!***	1,000	1360.00	T520V107M006ATE015
	100	±20	63	8	0.04	B	399-4008-1-ND	1.40	1.22	1.07	399-4008-2-ND	2,000	476.00/M	T520B107M006ATE040
	100	±20	63	8	0.025	C	399-4812-1-ND	2.00	1.74	1.52	399-4812-2-ND	1,000	708.00	T520C107M006ATE025
	100	±20	63	8	0.045	B	399-5147-1-ND	1.40	1.22	1.07	399-5147-2-ND	2,000	476.00/M	T520B107M006ATE045
	100	±20	63	8	0.045	C	399-4658-1-ND	1.58	1.53	1.33	399-4658-2-ND	500	318.50	T520C107M006ATE045
	100	±20	63	10	0.007	D	399-4725-1-ND	4.25	3.70	3.23	399-4725-2-ND	500	773.50	T520D107M006ATE007
	100	±20	63	10	0.007	V	399-4720-1-ND	4.50	3.92	3.42	399-4720-2-ND	1,000	1530.00	T520V107M006ATE007
	100	±20	63	10	0.012	V	399-4068-1-ND	4.00	3.48	3.04	399-4068-2-ND	1,000	1360.00	T520V107M006ATE012
	100	±20	63	10	0.009	V	399-4067-1-ND	4.25	3.70	3.23	399-4067-2-ND	1,000	1445.00	T520V107M006ATE009
	100	±20	63	10	0.045	V	399-4978-1-ND	3.75	3.27	2.85	399-4978-2-ND	1,000	1275.00	T520V107M006ATE045
	100	±20	63	10	0.04	W	399-4735-1-ND	4.00	3.48	3.04	399-4735-2-ND	1,000	1360.00	T520W107M006ATE040
	150	±20	95	8	0.045	B	399-4733-1-ND	1.40	1.22	1.07	399-4733-2-ND	2,000	476.00/M	T520B157M006ATE045
	150	±20	95	8	0.07	B	399-4732-1-ND	1.20	1.05	.92	399-4732-2-ND	2,000	408.00/M	T520B157M006ATE070
	150	±20	95	10	0.007	D	399-4726-1-ND	2.85	2.48	2.17	399-4726-2-ND	500	518.50	T520D157M006ATE007
	150	±20	95	10	0.007	V	399-4721-1-ND	4.75	4.14	3.61	399-4721-2-ND	1,000	1615.00	T520V157M006ATE007
	150	±20	95	10	0.055	D	399-4035-1-ND	1.85	1.61	1.41	399-4035-2-ND	500	336.50	T520D157M006ATE055
	150	±20	94.5	10	0.025	D	399-4034-1-ND	2.10	1.83	1.60	399-4034-2-ND	500	382.00	T520D157M006ATE025
	150	±20	95	10	0.015	D	399-4033-1-ND	2.10	1.83	1.60	399-4033-2-ND	500	382.00	T520D157M006ATE015
	150	±20	95	10	0.045	V	399-4080-1-ND	3.75	3.27	2.85	399-4080-2-ND	1,000	1275.00	T520V157M006ATE045
	150	±20	95	10	0.04	V	399-4079-1-ND	3.75	3.27	2.85	399-4079-2-ND	1,000	1275.00	T520V157M006ATE040
	150	±20	95	10	0.015	V	399-5272-1-ND ***NEW!***	4.25	3.70	3.23	399-5272-2-ND ***NEW!***	1,000	1445.00	T520V157M006ATE015
	150	±20	95	10	0.025	L	399-5139-1-ND	3.60	3.14	2.74	399-5139-2-ND	500	655.00	T520L157M006ATE025
	150	±20	95	10	0.025	V	399-4078-1-ND	4.00	3.48	3.04	399-4078-2-ND	1,000	1360.00	T520V157M006ATE025
	150	±20	95	10	0.012	V	399-4077-1-ND	4.25	3.70	3.23	399-4077-2-ND	1,000	1445.00	T520V157M006ATE012
	150	±20	95	10	0.009	V	399-4076-1-ND	4.50	3.92	3.42	399-4076-2-ND	1,000	1530.00	T520V157M006ATE009
	220	±20	139	8	0.018	C	399-5235-1-ND ***NEW!***	2.35	2.05	1.79	399-5235-2-ND ***NEW!***	500	427.50	T520C227M006ATE018
	220	±20	139	8	0.015	C	399-5234-1-ND ***NEW!***	2.60	2.27	1.98	399-5234-2-ND ***NEW!***	500	473.00	T520C227M006ATE015
	220	±20	139	10	0.05	D	399-4044-1-ND	1.85	1.61	1.41	399-4044-2-ND	500	336.50	T520D227M006ATE050
	220	±20	139	10	0.04	D	399-4043-1-ND	2.10	1.83	1.60	399-4043-2-ND	500	382.00	T520D227M006ATE040
	220	±20	139	10	0.025	D	399-5167-1-ND	2.10	1.83	1.60	399-5167-2-ND	500	382.00	T520D227M006ATE025
	220	±20	139	10	0.018	D	399-5166-1-ND	2.35	2.05	1.79	399-5166-2-ND	500	427.50	T520D227M006ATE018
	220	±20	139	10	0.009	D	399-4042-1-ND	2.60	2.27	1.98	399-4042-2-ND	500	473.00	T520D227M006ATE009
	220	±20	139	10	0.007	D	399-4660-1-ND	2.57	2.48	2.17	399-4660-2-ND	500	518.50	T520D227M006ATE007
	220	±20	139	10	0.04	V	399-4088-1-ND	4.50	3.92	3.42	399-4088-2-ND	1,000	1530.00	T520V227M006ATE040
	220	±20	139	10	0.025	V	399-4087-1-ND	4.75	4.14	3.61	399-4087-2-ND	1,000	1615.00	T520V227M006ATE025
	220	±20	139	10	0.012	V	399-4086-1-ND	5.00	4.35	3.80	399-4086-2-ND	1,000	1700.00	T520V227M006ATE012
	220	±20	139	10	0.009	V	399-4085-1-ND	5.25	4.57	3.99	399-4085-2-ND	1,000	1785.00	T520V227M006ATE009
	220	±20	139	10	0.007	V	399-4659-1-ND	4.95	4.79	4.18	399-4659-2-ND	1,000	1870.00	T520V227M006ATE007
	330	±20	208	10	0.045	D	399-4055-1-ND	1.85	1.61	1.41	399-4055-2-ND	500	336.50	T520D337M006ATE045
	330	±20	208	10	0.04	D	399-4054-1-ND	2.10	1.83	1.60	399-4054-2-ND	500	382.00	T520D337M006ATE040
	330	±20	208	10	0.025	D	399-4053-1-ND	2.10	1.83	1.60	399-4053-2-ND	500	382.00	T520D337M006ATE025
	330	±20	208	10	0.018	D	399-5149-1-ND	2.35	2.05	1.79	399-5149-2-ND	500	427.50	T520D337M006ATE018
	330	±20	208	10	0.015	D	399-4052-1-ND	2.35	2.05	1.79	399-4052-2-ND	500	427.50	T520D337M006ATE015
	330	±20	208	10	0.04	V	399-4102-1-ND	4.50	3.92	3.42	399-4102-2-ND	1,000	1530.00	T520V337M006ATE040
	330	±20	208	10	0.025	V	399-4101-1-ND	4.75	4.14	3.61	399-4101-2-ND	1,000	1615.00	T520V337M006ATE025
	330	±20	208	10	0.018	V	399-5148-1-ND	5.00	4.35	3.80	399-5148-2-ND	1,000	1700.00	T520V337M006ATE018
	470	±20	296	10	0.04	X	399-4118-1-ND	12.25	10.66	9.31	399-4118-2-ND	500	2229.50	T520X477M006ATE040
	470	±20	296	10	0.035	X	399-4117-1-ND	12.50	10.88	9.50	399-4117-2-ND	500	2275.00	T520X477M006ATE035
	470	±20	296	10	0.03	D	399-4661-1-ND	4.05	3.92	3.42	399-4661-2-ND	500	819.00	T520D477M006ATE030
	470	±20	296	10	0.025	D	399-4985-1-ND	4.75	4.14	3.61	399-4985-2-ND	500	864.50	T520D477M006ATE025
8	33	±20	26	8	0.025	B	399-5121-1-ND	1.70	1.48	1.30	399-5121-2-ND	2,000	578.00/M	T520B336M008ATE025
	33	±20	26	8	0.04	B	399-4019-1-ND	1.30	1.14	.99	399-4019-2-ND	2,000	442.00/M	T520B336M008ATE040
	33	±20	27	8	0.07	B	399-4020-1-ND	1.10	.96	.84	399-4020-2-ND	2,000	374.00/M	T520B336M008ATE070
	33	±20	26	8	0.07	T	399-4813-1-ND	1.65	1.44	1.26	399-4813-2-ND	2,500	561.00/M	T520T336M008ATE070
	33	±20	26	8	0.08	T	399-4787-1-ND	1.31	1.27	1.11	399-4787-2-ND	2,500	493.00/M	T520T336M008ATE080
	47	±20	38	8	0.035	B	399-4979-1-ND	1.40	1.22	1.07	399-4979-2-ND	2,000	476.00/M	T520B476M008ATE035
	47	±20	38	8	0.07	B	399-4980-1-ND	1.20	1.05	.92	399-4980-2-ND	2,000	408.00/M	T520B476M008ATE070
	150	±20	120	10	0.055	D	399-4038-1-ND	3.50	3.05	2.66	399-4038-2-ND	500	637.00	T520D157M008ATE055
	150	±20	120	10	0.04	D	399-4037-1-ND	3.75	3.27	2.85	399-4037-2-ND	500	682.50	T520D157M008ATE040
	150	±20	120	10	0.025	D	399-4036-1-ND	4.00	3.48	3.04	399-4036-2-ND	500	728.00	T520D157M008ATE025
10	10	±20	10	8	0.08	A	399-4788-1-ND	1.08	1.05	.92	399-4788-2-ND	2,000	408.00/M	T520A106M010ATE080
	15	±20	15	8	0.08	A	399-4789-1-ND	1.13	1.09	.95	399-4789-2-ND	2,000	425.00/M	T520A156M010ATE080
	33	±20	33	8	0.08	T	399-4790-1-ND	1.35	1.31	1.14	399-4790-2-ND	2,500	510.00/M	T520T336M010ATE080
	33	±20	33	8	0.07	T	399-4814-1-ND	1.70	1.48	1.30	399-4814-2-ND	2,500	578.00/M	T520T336M010ATE070
	33	±20	33	8	0.07	B	399-4022-1-ND	1.10	.96	.84	399-4022-2-ND	2,000	374.00/M	T520B336M010ATE070
	33	±20	33	8	0.04	B	399-4021-1-ND	1.30	1.14	.99	399-4021-2-ND	2,000	442.00/M	T520B336M010ATE040
	33	±20	33	10	0.025	B	399-5120-1-ND	1.70	1.48	1.30	399-5120-2-ND	2,000	578.00/M	T520B336M010ATE025
	47	±20	47	8	0.035	B	399-4981-1-ND	1.50	1.31	1.14	399-4981-2-ND	2,000	510.00/M	T520B476M010ATE035
	47	±20	47	8	0.07	B	399-4982-1-ND	1.30	1.14	.99	399-4982-2-ND	2,000	442.00/M	T520B476M010ATE070
	68	±20	68	8	0.045	C	399-4662-1-ND	1.58	1.53	1.33	399-4662-2-ND	500	318.50	T520C686M010ATE045
	68	±20	68	10	0.06	V	399-4112-1-ND	3.75	3.27	2.85	399-4112-2-ND	1,000	1275.00	T520V686M010ATE060
	68	±20	68	8	0.055	U	399-5140-1-ND	3.50	3.05	2.66	399-5140-2-ND	1,000	1190.00	T520U686M010ATE055
	68	±20	68	10	0.045	V	399-4111-1-ND	4.00	3.48	3.04	399-4111-2-ND	1,000	1360.00	T520V686M010ATE045
	68	±20	68	10	0.025	V	399-4745-1-ND	4.25	3.70	3.23	399-4745-2-ND	1,000	1445.00	T520V686M010ATE025
	68	±20	68	10	0.025	W	399-4815-1-ND	4.50	3.92	3.42	399-4815-2-ND	1,000	1530.00	T520W686M010ATE025
	68	±20	68	10	0.04	V	399-4816-1-ND	4.00	3.48	3.04	399-4816-2-ND	1,000	1360.00	T520V686M010ATE040
	68	±20	68	10	0.04	W	399-4746-1-ND	4.25	3.70	3.23	399-4746-2-ND	1,000	1445.00	T520W686M010ATE040
	68	±20	68	10	0.1	V	399-4983-1-ND	3.75	3.27	2.85	399-4983-2-ND	1,000	1275.00	T520V686M010ATE100
	68	±20	68	10	0.1	D	399-4984-1-ND	3.50	3.05	2.66	399-4984-2-ND	500	637.00	T520D686M010ATE100
	100	±20	100	10	0.08	D	399-4030-1-ND	1.85	1.61	1.41	399-4030-2-ND	500	336.50	T520D107M010ATE080
	100	±20	100	10	0.055	D	399-4029-1-ND	2.10	1.83	1.60	399-4029-2-ND	500	382.00	T520D107M010ATE055
	100	±20	100	10	0.05	V	399-4071-1-ND	4.25	3.70	3.23	399-4071-2-ND	1,000	1445.00	T520V107M010ATE050
	100	±20	100	10	0.045	V	399-4070-1-ND	4.25	3.70	3.23	399-4070-2-ND	1,000	1445.00	T520V107M010ATE045
	100	±20	100	10	0.04	W	399-5150-1-ND	4.30	3.75	3.27	399-5150-2-ND	1,000	1462.00	T520W107M010ATE040
	100	±20	100	10	0.025	V	399-4069-1-ND	4.50	3.92	3.42	399-4069-2-ND	1,000	1530.00	T520V107M010ATE025
	100	±20	100	10	0.025	L	399-5141-1-ND	3.70	3.22	2.82	399-5141-2-ND	500	673.50	T520L107M010ATE025
	150	±20	150	10	0.055	D	399-4040-1-ND	1.85	1.61	1.41	399-4040-2-ND	500	336.50	T520D157M010ATE055

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered. *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount Tantalum Chip Capacitors *(Cont.)*

WV	Cap.	Cap.	DC Leakage	DF % @ 25°C	ESR Ω @ 25°C	Size	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel		Kemet
(DC)	(µF)	Tol. (%)	µA @ 25°C Max.	120Hz Max.	100kHz Max.	Code	Part No.	1	10	100	Part No.	Qty.	Pricing	Part No.
10	150	±20	150	10	0.04	D	399-4039-1-ND	2.10	1.83	1.60	399-4039-2-ND	500	382.00	T520D157M010ATE040
	220	±20	220	10	0.04	D	399-4047-1-ND	2.15	1.88	1.64	399-4047-2-ND	500	391.50	T520D227M010ATE040
	220	±20	220	10	0.025	D	399-4046-1-ND	2.40	2.09	1.83	399-4046-2-ND	500	437.00	T520D227M010ATE025
	220	±20	220	10	0.018	D	399-4045-1-ND	2.40	2.09	1.83	399-4045-2-ND	500	437.00	T520D227M010ATE018
	330	±20	330	10	0.01	X	399-4727-1-ND	13.00	11.31	9.88	399-4727-2-ND	500	2366.00	T520X337M010ATE010
	330	±20	330	10	0.04	X	399-4116-1-ND	12.25	10.66	9.31	399-4116-2-ND	500	2229.50	T520X337M010ATE040
	330	±20	330	10	0.025	X	399-4115-1-ND	12.50	10.88	9.50	399-4115-2-ND	500	2275.00	T520X337M0 10ATE025
16	22	±20	35	8	0.08	C	399-5119-1-ND	1.95	1.70	1.49	399-5119-2-ND	500	355.00	T520C226M016ATE080
	33	±20	53	10	0.045	V	399-4738-1-ND	4.75	4.14	3.61	399-4738-2-ND	1,000	1615.00	T520V336M016ATE045
	33	±20	53	10	0.045	W	399-4736-1-ND	4.75	4.14	3.61	399-4736-2-ND	1,000	1615.00	T520W336M016ATE045
	33	±20	53	10	0.06	V	399-4094-1-ND	4.50	3.92	3.42	399-4094-2-ND	1,000	1530.00	T520V336M016ATE060
	47	±20	75	10	0.045	W	399-4737-1-ND	4.75	4.14	3.61	399-4737-2-ND	1,000	1615.00	T520W476M016ATE045
	47	±20	75	10	0.045	V	399-4739-1-ND	4.75	4.14	3.61	399-4739-2-ND	1,000	1615.00	T520V476M016ATE045
	47	±20	75	10	0.035	D	399-3468-1-ND	3.50	3.05	2.66	399-3468-2-ND	500	637.00	T520D476M016ATE035
	47	±20	75	10	0.07	D	399-4056-1-ND	3.25	2.83	2.47	399-4056-2-ND	500	591.50	T520D476M016ATE070
	47	±20	76	10	0.07	V	399-4106-1-ND	4.50	3.92	3.42	399-4106-2-ND	1,000	1530.00	T520V476M016ATE070
	68	±20	109	10	0.05	D	399-5151-1-ND	3.25	2.83	2.47	399-5151-2-ND	500	591.50	T520D686M016ATE050
20	22	±20	44	10	0.04	V	399-4740-1-ND	4.75	4.14	3.61	399-4740-2-ND	1,000	1615.00	T520V226M020ATE040
25	15	±20	37.5	10	0.08	D	399-4032-1-ND	3.25	2.83	2.47	399-4032-2-ND	500	591.50	T520D156M025ATE080
	15	±20	38	10	0.06	D	399-4031-1-ND	3.50	3.05	2.66	399-4031-2-ND	500	637.00	T520D156M025ATE060
T525 Series, KO-CAP Polymer Tantalum — RoHS Compliant														
2.5	330	±20	83	10	0.025	D	399-3261-1-ND	4.98	4.33	3.79	399-3261-2-ND	500	905.50	T525D337M2R5ATE025
	470	±20	118	10	0.025	D	399-3262-1-ND	4.98	4.33	3.79	399-3262-2-ND	500	905.50	T525D477M2R5ATE025
	680	±20	170	10	0.025	D	399-3263-1-ND	4.98	4.33	3.79	399-3263-2-ND	500	905.50	T525D687M2R5ATE025
3	100	±20	30	8	0.08	B	399-3264-1-ND	1.30	1.14	.99	399-3264-2-ND	2,000	442.00/M	T525B107M003ATE080
	150	±20	45	8	0.08	B	399-3265-1-ND	1.30	1.14	.99	399-3265-2-ND	2,000	442.00/M	T525B157M003ATE080
	330	±20	99	10	0.025	D	399-3266-1-ND	4.98	4.33	3.79	399-3266-2-ND	500	905.50	T525D337M003ATE025
	470	±20	141	10	0.025	D	399-3267-1-ND	4.98	4.33	3.79	399-3267-2-ND	500	905.50	T525D477M003ATE025
	680	±20	204	10	0.025	D	399-3268-1-ND	4.98	4.33	3.79	399-3268-2-ND	500	905.50	T525D687M003ATE025
4	68	±20	27.2	8	0.08	B	399-3269-1-ND	1.30	1.14	.99	399-3269-2-ND	2,000	442.00/M	T525B686M004ATE080
	100	±20	40	8	0.08	B	399-3270-1-ND	1.30	1.14	.99	399-3270-2-ND	2,000	442.00/M	T525B107M004ATE080
	220	±20	88	10	0.025	D	399-3271-1-ND	4.98	4.33	3.79	399-3271-2-ND	500	905.50	T525D227M004ATE025
	330	±20	132	10	0.025	D	399-3272-1-ND	4.98	4.33	3.79	399-3272-2-ND	500	905.50	T525D337M004ATE025
	470	±20	188	10	0.04	D	399-3151-1-ND	4.98	4.33	3.79	399-3151-2-ND	500	905.50	T525D477M004ATE040
	470	±20	188	10	0.025	D	399-3273-1-ND	5.23	4.55	3.98	399-3273-2-ND	500	951.00	T525D477M004ATE025
6.3	33	±20	20.8	8	0.08	B	399-3274-1-ND	1.30	1.14	.99	399-3274-2-ND	2,000	442.00/M	T525B336M006ATE080
	47	±20	29.6	8	0.08	B	399-3275-1-ND	1.30	1.14	.99	399-3275-2-ND	2,000	442.00/M	T525B476M006ATE080
	68	±20	42.8	8	0.08	B	399-3276-1-ND	1.30	1.14	.99	399-3276-2-ND	2,000	442.00/M	T525B686M006ATE080
	150	±20	95	10	0.025	D	399-3277-1-ND	5.23	4.55	3.98	399-3277-2-ND	500	951.00	T525D157M006ATE025
	220	±20	139	10	0.025	D	399-3278-1-ND	5.23	4.55	3.98	399-3278-2-ND	500	951.00	T525D227M006ATE025
	330	±20	208	10	0.04	D	399-3152-1-ND	4.98	4.33	3.79	399-3152-2-ND	500	905.50	T525D337M006ATE040
	330	±20	208	10	0.025	D	399-3279-1-ND	5.23	4.55	3.98	399-3279-2-ND	500	951.00	T525D337M006ATE025
8	33	±20	26	8	0.08	T	399-4792-1-ND	1.53	1.48	1.30	399-4792-2-ND	2,500	578.00/M	T525T336M008ATE080
10	33	±20	33	8	0.08	T	399-4793-1-ND	1.58	1.53	1.33	399-4793-2-ND	2,500	595.00/M	T525T336M010ATE080
	33	±20	33	8	0.08	B	399-3280-1-ND	1.30	1.14	.99	399-3280-2-ND	2,000	442.00/M	T525B336M010ATE080
	100	±20	100	10	0.055	D	399-3153-1-ND	4.98	4.33	3.79	399-3153-2-ND	500	905.50	T525D107M010ATE055
	100	±20	100	10	0.025	D	399-3281-1-ND	5.23	4.55	3.98	399-3281-2-ND	500	951.00	T525D107M010ATE025
	150	±20	150	10	0.055	D	399-3154-1-ND	4.98	4.33	3.79	399-3154-2-ND	500	905.50	T525D157M010ATE055
	150	±20	150	10	0.025	D	399-3282-1-ND	5.23	4.55	3.98	399-3282-2-ND	500	951.00	T525D157M010ATE025
	220	±20	220	10	0.025	D	399-3283-1-ND	5.23	4.55	3.98	399-3283-2-ND	500	951.00	T525D227M010ATE025
16	47	±20	75.2	10	0.065	D	399-3155-1-ND	4.98	4.33	3.79	399-3155-2-ND	500	905.50	T525D476M016ATE065
	47	±20	76	10	0.035	D	399-3284-1-ND	5.23	4.55	3.98	399-3284-2-ND	500	951.00	T525D476M016ATE035
T528 Series, Face Down Termination — RoHS Compliant														
2.5	330	±20	83	10	0.008	Z	399-5142-1-ND	7.25	6.31	5.51	399-5142-2-ND	1,000	2465.00	T528Z337M2R5ATE008
	470	±20	118	10	0.008	Z	399-5143-1-ND	7.50	6.53	5.70	399-5143-2-ND	1,000	2550.00	T528Z477M2R5ATE008
3	100	±20	30	10	0.15	I	399-5236-1-ND ***NEW!***	5.10	4.44	3.88	399-5236-2-ND ***NEW!***	3,000	1734.00/M	T528I107M003ATE150
	100	±20	30	10	0.2	I	399-5237-1-ND ***NEW!***	4.85	4.22	3.69	399-5237-2-ND ***NEW!***	3,000	1649.00/M	T528I107M003ATE200
	330	±20	99	10	0.15	M	399-5250-1-ND ***NEW!***	5.50	4.79	4.18	399-5250-2-ND ***NEW!***	2,000	1870.00/M	T528M337M003ATE150
	330	±20	99	10	0.2	M	399-5251-1-ND ***NEW!***	5.25	4.57	3.99	399-5251-2-ND ***NEW!***	2,000	1785.00/M	T528M337M003ATE200
4	68	±20	27.2	10	0.15	I	399-5242-1-ND ***NEW!***	5.10	4.44	3.88	399-5242-2-ND ***NEW!***	3,000	1734.00/M	T528I686M004ATE150
	68	±20	27.2	10	0.2	I	399-5243-1-ND ***NEW!***	4.85	4.22	3.69	399-5243-2-ND ***NEW!***	3,000	1649.00/M	T528I686M004ATE200
	220	±20	88	10	0.15	M	399-5248-1-ND ***NEW!***	5.50	4.79	4.18	399-5248-2-ND ***NEW!***	2,000	1870.00/M	T528M227M004ATE150
	220	±20	88	10	0.2	M	399-5249-1-ND ***NEW!***	5.25	4.57	3.99	399-5249-2-ND ***NEW!***	2,000	1785.00/M	T528M227M004ATE200
	220	±20	88	10	0.009	Z	399-5254-1-ND ***NEW!***	7.25	6.31	5.51	399-5254-2-ND ***NEW!***	1,000	2465.00	T528Z227M004ATE009
	220	±20	88	10	0.012	Z	399-5255-1-ND ***NEW!***	7.00	6.09	5.32	399-5255-2-ND ***NEW!***	1,000	2380.00	T528Z227M004ATE012
	330	±20	132	10	0.009	Z	399-5258-1-ND ***NEW!***	7.50	6.53	5.70	399-5258-2-ND ***NEW!***	1,000	2550.00	T528Z337M004ATE009
	330	±20	132	10	0.012	Z	399-5259-1-ND ***NEW!***	7.25	6.31	5.51	399-5259-2-ND ***NEW!***	1,000	2465.00	T528Z337M004ATE012
6.3	47	±20	29.6	10	0.15	I	399-5240-1-ND ***NEW!***	5.10	4.44	3.88	399-5240-2-ND ***NEW!***	3,000	1734.00/M	T528I476M006ATE150
	47	±20	33	10	0.2	I	399-5241-1-ND ***NEW!***	4.85	4.22	3.69	399-5241-2-ND ***NEW!***	3,000	1649.00/M	T528I476M006ATE200
	150	±20	94.5	10	0.15	M	399-5246-1-ND ***NEW!***	5.75	5.01	4.37	399-5246-2-ND ***NEW!***	2,000	1955.00/M	T528M157M006ATE150
	150	±20	94.5	10	0.2	M	399-5247-1-ND ***NEW!***	5.50	4.79	4.18	399-5247-2-ND ***NEW!***	2,000	1870.00/M	T528M157M006ATE200
	150	±20	94.5	10	0.009	Z	399-5252-1-ND ***NEW!***	7.25	6.31	5.51	399-5252-2-ND ***NEW!***	1,000	2465.00	T528Z157M006ATE009
	150	±20	94.5	10	0.012	Z	399-5253-1-ND ***NEW!***	7.00	6.09	5.32	399-5253-2-ND ***NEW!***	1,000	2380.00	T528Z157M006ATE012
	220	±20	138.6	10	0.009	Z	399-5256-1-ND ***NEW!***	7.50	6.53	5.70	399-5256-2-ND ***NEW!***	1,000	2550.00	T528Z227M006ATE009
	220	±20	138.6	10	0.012	Z	399-5257-1-ND ***NEW!***	7.25	6.31	5.51	399-5257-2-ND ***NEW!***	1,000	2465.00	T528Z227M006ATE012
10	33	±20	33	10	0.15	I	399-5238-1-ND ***NEW!***	5.15	4.49	3.92	399-5238-2-ND ***NEW!***	3,000	1751.00/M	T528I336M010ATE150
	33	±20	33	10	0.2	I	399-5239-1-ND ***NEW!***	4.90	4.27	3.73	399-5239-2-ND ***NEW!***	3,000	1666.00/M	T528I336M010ATE200
	100	±20	100	10	0.15	M	399-5244-1-ND ***NEW!***	5.75	5.01	4.37	399-5244-2-ND ***NEW!***	2,000	1955.00/M	T528M107M010ATE150
	100	±20	100	10	0.2	M	399-5245-1-ND ***NEW!***	5.50	4.79	4.18	399-5245-2-ND ***NEW!***	2,000	1870.00/M	T528M107M010ATE200
T530 Series, KO-MAT Polymer Tantalum														
2.5	470	±20	118	8	0.006	D	399-3399-1-ND	10.50	9.14	7.98	—	—	—	T530D447M2R5ASE006
	680	±20	170	8	0.01	D	399-3332-1-ND	10.25	8.92	7.79	—	—	—	T530D687M2R5ASE010
10	150	±20	150	8	0.006	D	399-3396-1-ND	10.50	9.14	7.98	—	—	—	T530D157M010ASE006
T530 Series, KO-MAT Polymer Tantalum — RoHS Compliant														
2.5	470	±20	118	8	0.006	D	399-4127-1-ND	10.50	9.14	7.98	399-4127-2-ND	500	1911.00	T530D447M2R5ATE006
	560	±20	140	8	0.005	D	399-4128-1-ND	11.00	9.57	8.36	399-4128-2-ND	500	2002.00	T530D567M2R5ATE005
	680	±20	170	8	0.01	D	399-4130-1-ND	10.25	8.92	7.79	399-4130-2-ND	500	1865.50	T530D687M2R5ATE010
	680	±20	170	8	0.006	X	399-4987-1-ND	11.75	10.23	8.93	399-4987-2-ND	500	2138.50	T530X687M2R5ATE006
	680	±20	170	8	0.006	Y	399-3471-1-ND	11.00	9.57	8.36	399-3471-2-ND	500	2002.00	T530Y687M2R5ATE006

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount Tantalum Chip Capacitors *(Cont.)*

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ 25°C Max.	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Kemet Part No.
2.5	1000	±20	250	8	0.006	X	399-4132-1-ND	12.25	10.66	9.31	399-4132-2-ND	500	2229.50	T530X108M2R5ATE006
	1000	±20	250	8	0.005	Y	399-4749-1-ND	11.50	10.01	8.74	399-4749-2-ND	500	2093.00	T530Y108M2R5ATE005
	1500	±20	375	8	0.005	X	399-5274-1-ND ***NEW!***	13.50	11.75	10.26	399-5274-2-ND ***NEW!***	500	2457.00	T530X158M2R5ATE005
3	680	±20	204	8	0.01	D	399-4129-1-ND	10.25	8.92	7.79	399-4129-2-ND	500	1865.50	T530D687M003ATE010
	1000	±20	300	8	0.01	X	399-4131-1-ND	11.75	10.23	8.93	399-4131-2-ND	500	2138.50	T530X108M003ATE010
	1500	±20	450	8	0.008	X	399-4133-1-ND	13.00	11.31	9.88	399-4133-2-ND	500	2366.00	T530X158M003ATE008
4	330	±20	132	8	0.006	D	399-4124-1-ND	10.50	9.14	7.98	399-4124-2-ND	500	1911.00	T530D337M004ATE006
	470	±20	188	8	0.006	D	399-4986-1-ND	10.75	9.36	8.17	399-4986-2-ND	500	1956.50	T530D477M004ATE006
	470	±20	188	8	0.01	D	399-4126-1-ND	10.25	8.92	7.79	399-4126-2-ND	500	1865.50	T530D477M004ATE010
	680	±20	272	8	0.004	X	399-4817-1-ND	13.25	11.53	10.07	399-4817-2-ND	500	2411.50	T530X687M004ATE004
	680	±20	272	8	0.01	X	399-4139-1-ND	11.75	10.23	8.93	399-4139-2-ND	500	2138.50	T530X687M004ATE010
	680	±20	272	8	0.006	X	399-4138-1-ND	12.25	10.66	9.31	399-4138-2-ND	500	2229.50	T530X687M004ATE006
	680	±20	272	8	0.005	Y	399-4750-1-ND	11.50	10.01	8.74	399-4750-2-ND	500	2093.00	T530Y687M004ATE005
6.3	220	±20	139	8	0.006	D	399-4122-1-ND	10.50	9.14	7.98	399-4122-2-ND	500	1911.00	T530D227M006ATE006
	330	±20	208	8	0.01	D	399-4125-1-ND	10.00	8.70	7.60	399-4125-2-ND	500	1820.00	T530D337M006ATE010
	330	±20	208	8	0.006	Y	399-3472-1-ND	11.00	9.57	8.36	399-3472-2-ND	500	2002.00	T530Y337M006ATE006
	330	±20	208	8	0.006	D	399-4751-1-ND	10.50	9.14	7.98	399-4751-2-ND	500	1911.00	T530D337M006ATE006
	470	±20	296	8	0.005	Y	399-4752-1-ND	11.50	10.01	8.74	399-4752-2-ND	500	2093.00	T530Y477M006ATE005
	470	±20	296	8	0.01	X	399-4137-1-ND	11.75	10.23	8.93	399-4137-2-ND	500	2138.50	T530X477M006ATE010
	470	±20	297	8	0.006	X	399-4136-1-ND	12.25	10.66	9.31	399-4136-2-ND	500	2229.50	T530X477M006ATE006
10	150	±20	150	8	0.006	D	399-4121-1-ND	10.50	9.14	7.98	399-4121-2-ND	500	1911.00	T530D157M010ATE006
	150	±20	150	8	0.01	D	399-4791-1-ND	9.00	8.70	7.60	399-4791-2-ND	500	1820.00	T530D157M010ATE010
	220	±20	220	8	0.01	D	399-4123-1-ND	10.00	8.70	7.60	399-4123-2-ND	500	1820.00	T530D227M010ATE010
	220	±20	220	8	0.006	D	399-4747-1-ND	10.50	9.14	7.98	399-4747-2-ND	500	1911.00	T530D227M010ATE006
	220	±20	220	8	0.006	Y	399-4748-1-ND	11.00	9.57	8.36	399-4748-2-ND	500	2002.00	T530Y227M010ATE006
	330	±20	330	8	0.01	X	399-4135-1-ND	11.75	10.23	8.93	399-4135-2-ND	500	2138.50	T530X337M010ATE010
	330	±20	330	8	0.006	X	399-4134-1-ND	12.25	10.66	9.31	399-4134-2-ND	500	2229.50	T530X337M010ATE006
16	150	±20	240	8	0.015	X	399-4663-1-ND	12.60	12.18	10.64	399-4663-2-ND	500	2548.00	T530X157M016ATE015
	150	±20	240	8	0.025	X	399-4664-1-ND	12.15	11.75	10.26	399-4664-2-ND	500	2457.00	T530X157M016ATE025
	150	±20	240	8	0.04	X	399-4665-1-ND	11.70	11.31	9.88	399-4665-2-ND	500	2366.00	T530X157M016ATE040

NEW! Kits – *RoHS Compliant*

◊ **399-5260-ND** (Kemet No. TAN ENG KIT 04) 10 each of values denoted (100 total pieces) **$50.00**
§ **399-5278-ND** (Kemet No. TAN ENG KIT 09) 10 each of values denoted (100 total pieces)........ **$50.00**
399-5270-ND (Kemet No. TAN ENG KIT 08) See Digi-Key website for values included (160 total pieces) **$50.00**

A700 Series AO-CAP Aluminum Organic Capacitors

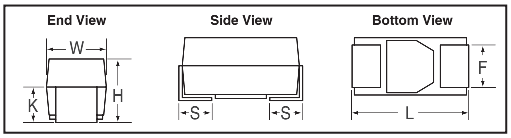

KEMET's AO-CAP, designated the A700 Series, has been targeted for power management applications. The structure of the AO-CAP uses aluminum as the anode material, aluminum oxide as the dielectric, and a conductive organic polymer for its counter-electrode material. The AO-CAP offers many advantages: • Extremely low ESR • High capacitance retention for superior performance at high operating frequencies • No voltage derating up to 125°C • Robust to the surface-mount process • No dry-out-related failure mechanism

The A700 Series has a molded case and wraparound terminations. This provides strong protection against cracks (flex) making it an ideal alternative to high-capacitance ceramics, and also offers true surface-mountable solutions to the existing aluminum organic capacitors found in the industry. The high-frequency performance of the AO-CAP can reduce component counts, which allows the designer to save board space and offers a more cost-effective solution.

The AO-CAP has excellent surge current performance and long-term reliability. There is no recommended derating of application voltage to reduce failure rate. **Operating Temperature:** -55°C ~ 125°C. The approximate capacitance shift over the temperature range for -55°C is -15%, and for 125°C is +15%. **Capacitance Tolerance:** ±20%

Size Code Kemet	EIA	L	W	H	K Min.	F ±0.1	S ±0.2
V	7343-20	7.3 ± 0.3	4.3 ± 0.3	1.9 ± 0.1	1.1	2.4	1.3
D	7343-31	7.3 ± 0.3	4.3 ± 0.3	2.8 ± 0.3	1.3	2.4	1.3
X	7343-43	7.3 ± 0.3	4.3 ± 0.3	4.0 ± 0.3	2.1	2.4	1.3

WV (DC)	Cap (µF)	Size Code	DC Leakage µA @ 25°C Maximum	DF % @ 25°C 120Hz Max.	ESR Ω @ 25°C 100kHz Max.	Ripple Current Arms 100KHz, at Max ESR 25°C ~ 105°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Kemet Part No.
2	100	V	12	6	0.028	2.1	399-3030-1-ND	1.98	1.86	1.61	399-3030-2-ND	1,000	990.00	A700V107M002ATE028
	150	V	18	6	0.028	2.1	399-3031-1-ND	1.98	1.86	1.61	399-3031-2-ND	1,000	990.00	A700V157M002ATE028
	180	D	21.6	6	0.018	2.9	399-3032-1-ND	2.98	2.80	2.43	399-3032-2-ND	500	745.00	A700D187M002ATE018
	220	D	26.4	6	0.018	2.9	399-3033-1-ND	2.98	2.80	2.43	399-3033-2-ND	500	745.00	A700D227M002ATE018
	220	D	26.4	6	0.015	3.2	399-3034-1-ND	3.18	2.99	2.59	399-3034-2-ND	500	795.00	A700D227M002ATE015
	220	D	26.4	6	0.012	3.5	399-3035-1-ND	3.38	3.17	2.75	399-3035-2-ND	500	845.00	A700D227M002ATE012
	270	X	26.4	6	0.015	3.2	399-3036-1-ND	4.00	3.75	3.25	399-3036-2-ND	500	1000.00	A700X277M002ATE015
	330	X	39.6	6	0.015	3.3	399-3037-1-ND	4.00	3.75	3.25	399-3037-2-ND	500	1000.00	A700X337M002ATE015
	390	X	46.8	6	0.01	4.1	399-3039-1-ND	4.20	3.94	3.42	399-3039-2-ND	500	1050.00	A700X397M002ATE010
	470	X	56.4	6	0.015	4.5	399-3040-1-ND	4.00	3.75	3.25	399-3040-2-ND	500	1000.00	A700X477M002ATE015
2.5	82	V	12.3	6	0.028	2.1	399-3041-1-ND	1.98	1.86	1.61	399-3041-2-ND	1,000	990.00	A700V826M2R5ATE028
	150	D	22.5	6	0.018	2.9	399-3042-1-ND	2.98	2.80	2.43	399-3042-2-ND	500	745.00	A700D157M2R5ATE018
	220	X	33	6	0.015	3.3	399-3043-1-ND	4.00	3.75	3.25	399-3043-2-ND	500	1000.00	A700X227M2R5ATE015
4	82	V	19.7	6	0.028	2.1	399-3044-1-ND	1.98	1.86	1.61	399-3044-2-ND	1,000	990.00	A700V826M004ATE028
	120	D	28.8	6	0.018	2.9	399-3045-1-ND	2.98	2.80	2.43	399-3045-2-ND	500	745.00	A700D127M004ATE018
	150	D	36	6	0.018	2.9	399-3046-1-ND	2.98	2.80	2.43	399-3046-2-ND	500	745.00	A700D157M004ATE018
	180	X	43.2	6	0.015	3.3	399-3047-1-ND	4.00	3.75	3.25	399-3047-2-ND	500	1000.00	A700X187M004ATE015
	220	X	52.8	6	0.015	3.3	399-3048-1-ND	4.00	3.75	3.25	399-3048-2-ND	500	1000.00	A700X227M004ATE015
	270	X	64.8	6	0.015	3.3	399-3049-1-ND	4.00	3.75	3.25	399-3049-2-ND	500	1000.00	A700X277M004ATE015
6.3	33	V	8.3	6	0.028	2.1	399-3050-1-ND	1.98	1.86	1.61	399-3050-2-ND	1,000	990.00	A700V336M006ATE028
	47	V	11.8	6	0.025	3.3	399-5277-1-ND ***NEW!***	2.18	2.05	1.78	399-5277-2-ND ***NEW!***	1,000	1090.00	A700V476M006ATE025
	47	V	11.8	6	0.028	2.1	399-3051-1-ND	1.98	1.86	1.61	399-3051-2-ND	1,000	990.00	A700V476M006ATE028
	56	V	14.1	6	0.028	2.1	399-3052-1-ND	1.98	1.86	1.61	399-3052-2-ND	1,000	990.00	A700V566M006ATE028
	68	V	17.1	6	0.028	2.1	399-3053-1-ND	1.98	1.86	1.61	399-3053-2-ND	1,000	990.00	A700V686M006ATE028
	100	D	25.2	6	0.015	4.1	399-5275-1-ND ***NEW!***	3.18	2.99	2.59	399-5275-2-ND ***NEW!***	500	795.00	A700D107M006ATE015
	100	D	25.2	6	0.018	2.9	399-3054-1-ND	2.98	2.80	2.43	399-3054-2-ND	500	745.00	A700D107M006ATE018
	150	X	37.8	6	0.01	4.7	399-5276-1-ND ***NEW!***	4.20	3.94	3.42	399-5276-2-ND ***NEW!***	500	1050.00	A700X157M006ATE010
	150	X	37.8	6	0.015	3.3	399-3055-1-ND	4.00	3.75	3.25	399-3055-2-ND	500	1000.00	A700X157M006ATE015
	180	X	43.2	6	0.015	3.3	399-3056-1-ND	4.00	3.75	3.25	399-3056-2-ND	500	1000.00	A700X187M006ATE015
8	33	V	10.6	6	0.028	2.1	399-3057-1-ND	1.98	1.86	1.61	399-3057-2-ND	1,000	990.00	A700V336M008ATE028
10	33	V	13.2	6	0.028	2.1	399-3058-1-ND	1.98	1.86	1.61	399-3058-2-ND	1,000	990.00	A700V336M010ATE028
16	10	V	6.4	6	0.045	2.4	399-5212-1-ND ***NEW!***	2.40	2.25	1.95	399-5212-2-ND ***NEW!***	1,000	1200.00	A700V106M016ATE045
	22	D	14.1	6	0.018	3.7	399-5211-1-ND ***NEW!***	3.18	2.99	2.59	399-5211-2-ND ***NEW!***	500	795.00	A700D226M016ATE018

399-5270-ND (Kemet No. TAN ENG KIT 08) ***NEW!*** See Digi-Key website for values included (160 total pieces) **$50.00**

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

B45190E, B45192E, B45194E and B45196H Standard Series:
Construction: • Polar tantalum capacitors with solid electrolyte • Conventional TA-MnO_2 technology • Flame-retardant plastic case (UL94V-0)
Features: • High volumetric efficiency • Excellent solderability • Stable temperature and frequency characteristics • Low leakage current and dissipation factor • Low self-inductance • Suitable for use without series resistor
Specifications: • Operating Temperature: -55 ~ 125°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1 55/125/56

B45196P Performance 150°C High Reliability Series:
Construction: • Solid Electrolyte • Conventional TA-MnO_2 technology • Flame-retardant plastic case (UL94V-0)
Features: • Outstanding reliability • High volumetric efficiency • Excellent solderability • Stable temperature and frequency characteristics • Low leakage current, low dissipation factor • Low self-inductance • High resistance to shock and vibration • Very low failure rate • Operating temperature up to 150°C
Specifications: • Operating Temperature: -55°C ~ 150°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

B45197A Speed Power Low ESR Series:
Construction: • Solid Electrolyte • Conventional TA-MnO_2 technology • Flame-retardant plastic case (UL94V-0)
Features: • High volumetric efficiency • Excellent solderability • Stable temperature and frequency characteristics • Low leakage current, low dissipation factor • Low self-inductance • High resistance to shock and vibration • Low ESR
Specifications: • Operating Temperature: -55°C ~ 125°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

TOPcap B760XX Polymer Ultra-Low ESR Series:
Construction: • Solid electrolyte • Tantalum polymer technology (cathode consists of a solid conductive polymer) • Flame-retardant plastic case (UL94V-0) • Tinned terminals
Features: • High volumetric efficiency • Ultra-low ESR • Excellent solderability • Stable temperature and frequency characteristics • High ESR stability during temperature rise • High permissible ripple current • Only low derating necessary • Low self-inductance • High resistance to shock and vibration • No failure-mode ignition in high-surge current applications
Specifications: • Operating Temperature: -55°C ~ 105°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

B45396R Multiple Anode Ultra-Low ESR Series:
Construction: • Solid electrolyte • Conventional TA-MnO_2 technology • Three parallel low-ESR tantalum capacitors in one case ("multiple anode") • Flame retardant plastic case (UL94V-0) • Tinned terminals
Features: • High volumetric efficiency • Ultra-low ESR, high ripple current • Excellent solderability • Stable temperature and frequency characteristics • Low leakage current, low dissipation factor • Low self inductance • High resistance to shock and vibration
Specifications: • Operating Temperature: -55°C ~ 125°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

B763XX Polymer Multiple Anode Ultra-Low ESR Series:
Construction: • Solid electrolyte • Tantalum polymer technology (cathode consists of a solid conductive polymer) • Three parallel low ESR tantalum capacitors in one case ("multiple anode") • Flame-retardant plastic case (UL94V-0) • Tinned terminals
Features: • High volumetric efficiency • Ultra-low ESR, high ripple current • Excellent solderability • Stable temperature and frequency characteristics • High ESR stability during temperature rise • High permissible ripple current • Only low derating necessary • Low dissipation factor • High resistance to shock and vibration
Specifications: • Operating Temperature: -55°C ~ 105°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

	Dimensions (mm)			
Case Size	**L**	**W**	**H**	**L_2 Typical**
A	3.2	1.6	1.6	3.0
B	3.5	2.8	1.9	3.3
C	6.0	3.2	2.5	5.8
D	7.3	4.3	2.8	7.1
E	7.3	4.3	4.1	7.1
R	3.5	2.8	1.2	3.3
V	7.3	4.3	2.0	7.1
W	6.0	3.2	1.5	3.3
X	7.3	4.3	1.5	7.1

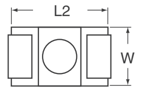

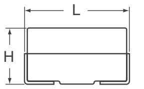

Rated Voltage (DC)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DC Leakage Current Max. (µA)	ESR Max. @ 100KHz 20°C (mΩ)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							1	10	100		Qty.	Pricing	
High Capacitance - Low Profile Tantalum Capacitors													
4.0	10	20	A	0.5	4500	495-2174-1-ND	.20	1.74	15.20	495-2174-2-ND	2,000	68.00/M	B45196H0106M109
4.0	47	20	B	1.9	2300	495-2175-1-ND	.26	2.26	19.76	495-2175-2-ND	2,000	88.00/M	B45196H0476M209V18
4.0	68	20	B	2.7	1800	495-2176-1-ND	.33	2.83	24.70	495-2176-2-ND	2,000	111.00/M	B45196H0686M209
6.3	4.7	10	A	0.5	5500	495-2177-1-ND	.16	1.39	12.16	495-2177-2-ND	2,000	54.00/M	B45196H1475K109
6.3	6.8	10	A	0.5	4500	495-2178-1-ND	.17	1.44	12.54	495-2178-2-ND	2,000	68.00/M	B45196H1685K109
6.3	6.8	20	A	0.5	4500	495-2179-1-ND	.16	1.35	11.78	495-2179-2-ND	2,000	68.00/M	B45196H1685M109
6.3	10	10	A	0.6	4000	495-2180-1-ND	.17	1.44	12.54	495-2180-2-ND	2,000	71.00/M	B45196H1106K109
6.3	10	20	A	0.6	4000	495-2181-1-ND	.16	1.39	12.16	495-2181-2-ND	2,000	70.00/M	B45196H1106M109
6.3	22	10	A	1.4	3000	495-2182-1-ND	.23	2.00	17.48	495-2182-2-ND	2,000	94.00/M	B45196H1226K109
6.3	22	20	A	1.4	3000	495-2183-1-ND	.24	2.04	17.86	495-2183-2-ND	2,000	92.00/M	B45196H1226M109
6.3	22	10	B	1.4	2500	495-2184-1-ND	.24	2.04	17.86	495-2184-2-ND	2,000	94.00/M	B45196H1226K209
6.3	22	20	B	1.4	2500	495-2185-1-ND	.24	2.04	17.86	495-2185-2-ND	2,000	92.00/M	B45196H1226M209
6.3	33	10	B	2.1	2200	495-2186-1-ND	.26	2.22	19.38	495-2186-2-ND	2,000	104.00/M	B45196H1336K209
6.3	33	20	R	2.1	2500	495-2187-1-ND	.46	3.96	34.58	495-2187-2-ND	2,500	155.00/M	B45190E1336M209
6.3	33	20	B	2.1	2000	495-2188-1-ND	.25	2.18	19.00	495-2188-2-ND	2,000	102.00/M	B45196H1336M209
6.3	47	10	B	3.0	2000	495-2189-1-ND	.30	2.57	22.42	495-2189-2-ND	2,000	112.00/M	B45196H1476K209
6.3	47	20	B	3.0	2000	495-2190-1-ND	.29	2.48	21.66	495-2190-2-ND	2,000	109.00/M	B45196H1476M209
6.3	100	20	B	6.3	1600	495-2191-1-ND	.40	3.44	30.06	495-2191-2-ND	2,000	134.00/M	B45196H1107M209
6.3	100	20	C	6.3	1200	495-2192-1-ND	.51	4.44	38.76	495-2192-2-ND	750	162.75	B45196H1107M309
6.3	100	10	D	6.3	800	495-2193-1-ND	.53	4.57	39.90	495-2193-2-ND	750	161.25	B45196H1107K409
6.3	220	20	D	14	800	495-2194-1-ND	.89	7.75	67.72	495-2194-2-ND	750	221.25	B45196H1227M409
6.3	220	20	V	14	700	495-2195-1-ND	1.43	12.44	108.68	495-2195-2-ND	1,000	619.00	B45194E1227M409
10	3.3	20	A	0.5	5500	495-2196-1-ND	.16	1.35	11.78	495-2196-2-ND	2,000	61.00/M	B45196H2335M109
10	4.7	10	A	0.5	4500	495-2197-1-ND	.16	1.39	12.16	495-2197-2-ND	2,000	68.00/M	B45196H2475K109
10	4.7	20	A	0.5	4500	495-2198-1-ND	.16	1.35	11.78	495-2198-2-ND	2,000	68.00/M	B45196H2475M109
10	6.8	10	A	0.7	4000	495-2199-1-ND	.18	1.52	13.30	495-2199-2-ND	2,000	71.00/M	B45196H2685K109
10	10	10	A	1.0	3800	495-2200-1-ND	.18	1.57	13.68	495-2200-2-ND	2,000	78.00/M	B45196H2106K109
10	10	20	A	1.0	3800	495-2201-1-ND	.17	1.48	12.92	495-2201-2-ND	2,000	77.00/M	B45196H2106M109
10	10	10	B	1.0	3000	495-2202-1-ND	.21	1.78	15.58	495-2202-2-ND	2,000	80.00/M	B45196H2106K209
10	10	20	B	1.0	3000	495-2203-1-ND	.20	1.70	14.82	495-2203-2-ND	2,000	78.00/M	B45196H2106M209
10	15	20	A	1.5	3200	495-2204-1-ND	.21	1.83	15.96	495-2204-2-ND	2,000	83.00/M	B45196H2156M109
10	15	10	B	1.5	2500	495-2205-1-ND	.22	1.91	16.72	495-2205-2-ND	2,000	88.00/M	B45196H2156K209
10	15	20	B	1.5	2500	495-2206-1-ND	.23	2.00	17.48	495-2206-2-ND	2,000	87.00/M	B45196H2156M209
10	22	20	A	2.2	3200	495-2207-1-ND	.25	2.18	19.00	495-2207-2-ND	2,000	85.00/M	B45196H2226M109
10	22	10	B	2.2	2300	495-2208-1-ND	.26	2.26	19.76	495-2208-2-ND	2,000	95.00/M	B45196H2226K209
10	22	20	B	2.2	2300	495-2209-1-ND	.26	2.22	19.38	495-2209-2-ND	2,000	94.00/M	B45196H2226M209
10	22	10	C	2.2	1600	495-2210-1-ND	.32	2.78	24.32	495-2210-2-ND	750	94.50	B45196H2226K309
10	22	20	C	2.2	1600	495-2211-1-ND	.31	2.70	23.56	495-2211-2-ND	750	93.00	B45196H2226M309
10	33	20	B	3.3	2000	495-2212-1-ND	.29	2.48	21.66	495-2212-2-ND	2,000	109.00/M	B45196H2336M209
10	33	10	W	5.3	1400	495-2213-1-ND	.87	7.57	66.12	495-2213-2-ND	4,750	296.00/M	B45192E2336K306
10	33	10	C	3.0	1500	495-2214-1-ND	.34	2.96	25.84	495-2214-2-ND	750	109.50	B45196H2336K309
10	33	20	C	3.0	1500	495-2215-1-ND	.35	3.00	26.22	495-2215-2-ND	750	106.50	B45196H2336M309
10	47	10	B	4.7	1600	495-2216-1-ND	.41	3.57	31.16	495-2216-2-ND	2,000	139.00/M	B45196H2476K209
10	47	10	C	4.7	1400	495-2217-1-ND	.43	3.74	32.68	495-2217-2-ND	750	132.75	B45196H2476K309
10	47	20	C	4.7	1400	495-2218-1-ND	.44	3.83	33.44	495-2218-2-ND	750	129.75	B45196H2476M309
10	68	10	D	6.8	800	495-2219-1-ND	.56	4.87	42.56	495-2219-2-ND	750	161.25	B45196H2686K409
10	100	10	C	10	1200	495-2220-1-ND	.75	6.53	57.00	495-2220-2-ND	750	204.75	B45196H2107K309
10	100	20	C	10	1200	495-2221-1-ND	.63	5.44	47.50	495-2221-2-ND	750	213.00	B45196H2107M309
10	100	20	X	10	800	495-2222-1-ND	1.94	16.83	147.06	495-2222-2-ND	1,250	724.00/M	B45192E2107M409
10	100	10	D	10	800	495-2223-1-ND	.59	5.13	44.84	495-2223-2-ND	750	193.50	B45196H2107K409
10	100	20	D	10	800	495-2224-1-ND	.60	5.18	45.22	495-2224-2-ND	750	189.75	B45196H2107M409
10	150	20	D	15	800	495-2225-1-ND	.89	7.75	67.72	495-2225-2-ND	750	221.25	B45196H2157M409
10	220	20	D	22	800	495-2226-1-ND	1.10	9.57	83.60	495-2226-2-ND	750	316.50	B45196H2227M409
10	220	20	E	22	600	495-2227-1-ND	2.40	20.88	182.40	495-2227-2-ND	400	384.40	B45196H2227M509
16	2.2	10	A	0.5	6500	495-2228-1-ND	.16	1.39	12.16	495-2228-2-ND	2,000	63.00/M	B45196H3225K109
16	2.2	20	A	0.5	6500	495-2229-1-ND	.16	1.35	11.78	495-2229-2-ND	2,000	61.00/M	B45196H3225M109
16	3.3	10	A	0.5	5000	495-2230-1-ND	.16	1.39	12.16	495-2230-2-ND	2,000	68.00/M	B45196H3335K109
16	3.3	20	A	0.5	5000	495-2231-1-ND	.16	1.35	11.78	495-2231-2-ND	2,000	68.00/M	B45196H3335M109
16	4.7	10	A	0.8	4000	495-2232-1-ND	.19	1.61	14.06	495-2232-2-ND	2,000	71.00/M	B45196H3475K109
16	4.7	20	A	0.8	4000	495-2233-1-ND	.18	1.57	13.68	495-2233-2-ND	2,000	61.00/M	B45196H3475M109
16	6.8	10	A	1.1	3800	495-2234-1-ND	.21	1.78	15.58	495-2234-2-ND	2,000	78.00/M	B45196H3685K109
16	6.8	20	B	1.1	3000	495-2235-1-ND	.20	1.74	15.20	495-2235-2-ND	2,000	68.00/M	B45196H3685M209
16	10	10	A	1.6	3000	495-2236-1-ND	.21	1.78	15.58	495-2236-2-ND	2,000	70.00/M	B45196H3106K109
16	10	20	A	1.6	3000	495-2237-1-ND	.21	1.78	15.58	495-2237-2-ND	2,000	92.00/M	B45196H3106M109
16	10	10	R	1.6	1500	495-2238-1-ND	.45	3.92	34.20	495-2238-2-ND	2,500	153.00/M	B45190E3106K209
16	10	10	B	1.6	2500	495-2239-1-ND	.24	2.04	17.86	495-2239-2-ND	2,000	88.00/M	B45196H3106K209
16	10	20	B	1.6	2500	495-2240-1-ND	.23	1.96	17.10	495-2240-2-ND	2,000	87.00/M	B45196H3106M209
16	15	20	B	2.4	2300	495-2241-1-ND	.24	2.09	18.24	495-2241-2-ND	2,000	94.00/M	B45196H3156M209

(Continued)

Rated Voltage (DC)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DC Leakage Current Max. (µA)	ESR Max. @ 100KHz 20°C (mΩ)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Kemet Part No.
16	22	10	B	3.5	2600	495-2242-1-ND	.30	2.57	22.42	495-2242-2-ND	2,000	112.00/M	B45196H3226K209
16	22	20	B	3.5	2600	495-2243-1-ND	.30	2.61	22.80	495-2243-2-ND	2,000	109.00/M	B45196H3226M209
16	22	10	C	3.5	1500	495-2244-1-ND	.37	3.22	28.12	495-2244-2-ND	750	113.25	B45196H3226K309
16	22	20	C	3.5	1500	495-2245-1-ND	.39	3.35	29.26	495-2245-2-ND	750	111.75	B45196H3226M309
16	33	20	C	5.3	1400	495-2246-1-ND	.45	3.87	33.82	495-2246-2-ND	750	129.75	B45196H3336M309
16	47	10	C	7.5	1400	495-2247-1-ND	.59	5.13	44.84	495-2247-2-ND	750	161.25	B45196H3476K309
16	47	20	C	7.5	1400	495-2248-1-ND	.59	5.09	44.46	495-2248-2-ND	750	186.00	B45196H3476M309
16	47	20	V	7.5	700	495-2249-1-ND	1.30	11.27	98.42	495-2249-2-ND	1,000	566.00	B45194E3476M409
16	47	10	D	7.5	800	495-2250-1-ND	.49	4.22	36.86	495-2250-2-ND	750	161.25	B45196H3476K409
16	47	20	D	7.5	800	495-2251-1-ND	.54	4.70	41.04	495-2251-2-ND	750	147.75	B45196H3476M409
16	68	10	X	10.9	800	495-2252-1-ND	1.99	17.31	151.24	495-2252-2-ND	1,250	677.00/M	B45192E3686K409
16	68	10	D	11	800	495-2253-1-ND	.69	5.96	52.06	495-2253-2-ND	750	193.50	B45196H3686K409
16	68	20	D	11	800	495-2254-1-ND	.68	5.87	51.30	495-2254-2-ND	750	189.75	B45196H3686M409
16	100	10	D	16	800	495-2255-1-ND	.91	7.94	69.39	495-2255-2-ND	750	226.50	B45196H3107K409
16	100	20	D	16	800	495-2256-1-ND	.89	7.75	67.72	495-2256-2-ND	750	221.25	B45196H3107M409
20	2.2	20	A	0.5	6000	495-2257-1-ND	.18	1.57	13.68	495-2257-2-ND	2,000	61.00/M	B45196H4225M109
20	4.7	20	B	0.9	3000	495-2258-1-ND	.21	1.83	15.96	495-2258-2-ND	2,000	71.00/M	B45196H4475M209
20	10	20	B	2.0	2300	495-2259-1-ND	.31	2.65	23.18	495-2259-2-ND	2,000	104.00/M	B45196H4106M209
20	10	10	C	2.0	1600	495-2260-1-ND	.33	2.83	24.70	495-2260-2-ND	750	88.50	B45196H4106K309
20	10	20	C	2.0	1600	495-2261-1-ND	.35	3.05	26.60	495-2261-2-ND	750	94.50	B45196H4106M309
20	15	10	C	3.0	1500	495-2262-1-ND	.40	3.48	30.40	495-2262-2-ND	750	113.25	B45196H4156K309
20	22	20	C	4.4	1400	495-2263-1-ND	.44	3.83	33.44	495-2263-2-ND	750	120.00	B45196H4226M309
20	33	10	D	6.6	800	495-2264-1-ND	.57	4.96	43.32	495-2264-2-ND	750	169.50	B45196H4336K409
20	33	20	D	6.6	800	495-2265-1-ND	.56	4.87	42.56	495-2265-2-ND	750	166.50	B45196H4336M409
20	47	10	D	9.4	800	495-2266-1-ND	.62	5.35	46.74	495-2266-2-ND	750	196.50	B45196H4476K409
20	47	20	D	9.4	800	495-2267-1-ND	.61	5.31	46.36	495-2267-2-ND	750	193.50	B45196H4476M409
25	1.0	10	A	0.5	8000	495-2268-1-ND	.16	1.39	12.16	495-2268-2-ND	2,000	54.00/M	B45196H5105K109
25	1.0	20	A	0.5	8000	495-2269-1-ND	.16	1.35	11.78	495-2269-2-ND	2,000	53.00/M	B45196H5105M109
25	1.5	20	A	0.5	7000	495-2270-1-ND	.18	1.52	13.30	495-2270-2-ND	2,000	70.00/M	B45196H5155M109
25	2.2	20	A	0.6	7000	495-2271-1-ND	.22	1.87	16.34	495-2271-2-ND	2,000	83.00/M	B45196H5225M109
25	4.7	10	B	1.2	3200	495-2272-1-ND	.26	2.22	19.38	495-2272-2-ND	2,000	94.00/M	B45196H5475K209
25	10	20	C	2.5	1600	495-2273-1-ND	.36	3.09	26.98	495-2273-2-ND	750	96.75	B45196H5106M309
25	22	10	D	5.5	800	495-2274-1-ND	.58	5.05	44.08	495-2274-2-ND	750	158.25	B45196H5226K409
25	22	20	D	5.5	800	495-2275-1-ND	.58	5.05	44.08	495-2275-2-ND	750	158.25	B45196H5226M409
25	33	20	D	8.3	800	495-2276-1-ND	.87	7.53	65.74	495-2276-2-ND	2,800	328.00/M	B45196H5336M406
35	0.47	20	A	0.5	1100	495-2277-1-ND	.17	1.48	12.92	495-2277-2-ND	2,000	68.00/M	B45196H6474M109
35	0.68	10	A	0.5	8000	495-2278-1-ND	.19	1.65	14.44	495-2278-2-ND	2,000	75.00/M	B45196H6684K109
35	1.0	20	A	0.5	7000	495-2279-1-ND	.20	1.74	15.20	495-2279-2-ND	2,000	77.00/M	B45196H6105M109
35	2.2	10	B	0.8	4000	495-2280-1-ND	.24	2.09	18.24	495-2280-2-ND	2,000	82.00/M	B45196H6225K209
35	2.2	20	B	0.8	4000	495-2281-1-ND	.24	2.04	17.86	495-2281-2-ND	2,000	94.00/M	B45196H6225M209
35	4.7	10	C	1.6	2000	495-2282-1-ND	.37	3.18	27.74	495-2282-2-ND	750	99.75	B45196H6475K309
35	4.7	20	C	1.6	2000	495-2283-1-ND	.43	3.71	32.38	495-2283-2-ND	750	116.25	B45196H6475M309
35	10	10	V	3.5	1000	495-2284-1-ND	1.77	15.40	134.52	495-2284-2-ND	1,000	709.00	B45194E6106K409
35	10	20	C	3.5	1600	495-2285-1-ND	.54	4.70	41.04	495-2285-2-ND	750	147.75	B45196H6106M309
35	15	20	D	5.3	800	495-2286-1-ND	.67	5.79	50.54	495-2286-2-ND	750	198.00	B45196H6156M409
35	47	20	E	16	900	495-2287-1-ND	2.19	19.05	166.44	495-2287-2-ND	400	384.40	B45196H6476M509
50	10	20	E	5.0	800	495-2288-1-ND	2.88	25.01	218.50	495-2288-2-ND	400	418.80	B45196H7106M509
Performance - High Reliability Tantalum Capacitors													
6.3	47	10	C	3.0	800	495-1491-1-ND	.51	4.40	38.46	495-1491-2-ND	750	125.25	B45196P1476K309
10	4.7	10	A	0.5	2900	495-1492-1-ND	.27	2.34	20.48	495-1492-2-ND	2,000	83.00/M	B45196P2475K109
10	47	10	D	4.7	600	495-1493-1-ND	.78	6.79	59.36	495-1493-2-ND	750	193.50	B45196P2476K409
16	22	10	C	3.6	1000	495-1494-1-ND	.55	4.79	41.80	495-1494-2-ND	750	136.50	B45196P3226K309
16	47	10	D	7.5	600	495-1495-1-ND	.86	7.46	65.21	495-1495-2-ND	750	213.00	B45196P3476K409
5	0.33	10	A	0.5	11000	495-1497-1-ND	.26	2.30	20.06	495-1497-2-ND	2,000	82.00/M	B45196P6334K109
35	1.0	10	B	0.5	4400	495-1498-1-ND	.34	2.97	25.92	495-1498-2-ND	2,000	105.00/M	B45196P6105K209
35	2.2	10	C	0.8	2200	495-1499-1-ND	.59	5.17	45.14	495-1499-2-ND	750	147.75	B45196P6225K309
35	6.8	10	D	2.4	900	495-1500-1-ND	.94	8.18	71.48	495-1500-2-ND	750	233.25	B45196P6685K409
35	10	10	D	3.5	700	495-1501-1-ND	.94	8.18	71.48	495-1501-2-ND	750	233.25	B45196P6106K409
SpeedPower - Low ESR Tantalum Capacitors													
4.0	680	10	E	27.0	150	495-1502-1-ND	1.94	16.83	147.06	495-1502-2-ND	400	281.60	B45197A0687K509
4.0	1000	10	E	40.0	150	495-1503-1-ND	2.29	19.95	174.31	495-1503-2-ND	400	334.00	B45197A0108K509
6.3	22	10	C	1.4	375	495-1504-1-ND	.62	5.41	47.23	495-1504-2-ND	750	154.50	B45197A1226K309
6.3	33	10	C	2.1	350	495-1505-1-ND	.62	5.41	47.23	495-1505-2-ND	750	154.50	B45197A1336K309
6.3	47	10	C	3.0	325	495-1506-1-ND	.69	5.98	52.25	495-1506-2-ND	750	171.00	B45197A1476K309
6.3	68	10	C	4.3	400	495-1507-1-ND	.72	6.27	54.76	495-1507-2-ND	750	178.50	B45197A1686K309
6.3	68	10	D	4.3	175	495-1508-1-ND	.87	7.61	66.46	495-1508-2-ND	750	216.75	B45197A1686K409
6.3	100	10	C	6.3	150	495-1509-1-ND	.76	6.60	57.68	495-1509-2-ND	750	188.25	B45197A1107K309
6.3	100	10	D	6.3	125	495-1510-1-ND	.87	7.61	66.46	495-1510-2-ND	750	216.75	B45197A1107K409
6.3	150	10	D	9.5	100	495-1511-1-ND	.98	8.57	74.82	495-1511-2-ND	750	244.50	B45197A1157K409
6.3	150	10	E	9.5	100	495-1512-1-ND	1.64	14.26	124.56	495-1512-2-ND	400	216.80	B45197A1157K509
6.3	220	10	D	14	100	495-1513-1-ND	1.05	9.09	79.42	495-1513-2-ND	750	259.50	B45197A1227K409
6.3	220	10	E	14	100	495-1514-1-ND	1.64	14.26	124.56	495-1514-2-ND	400	216.80	B45197A1227K509
6.3	330	10	D	21	100	495-1515-1-ND	1.18	10.24	89.45	495-1515-2-ND	750	291.75	B45197A1337K409
6.3	330	10	E	21	100	495-1516-1-ND	1.77	15.36	134.18	495-1516-2-ND	400	233.60	B45197A1337K509
6.3	470	10	D	30	150	495-1517-1-ND	1.44	12.54	109.52	495-1517-2-ND	750	357.75	B45197A1477K409
6.3	470	10	E	30	100	495-1518-1-ND	1.83	15.93	139.19	495-1518-2-ND	400	242.40	B45197A1477K509
6.3	680	10	E	43	100	495-1519-1-ND	2.05	17.85	155.91	495-1519-2-ND	400	271.60	B45197A1687K509
10	10	10	C	1.0	400	495-1520-1-ND	.62	5.41	47.23	495-1520-2-ND	750	154.50	B45197A2106K309
10	15	10	C	1.5	400	495-1521-1-ND	.62	5.41	47.23	495-1521-2-ND	750	154.50	B45197A2156K309
10	22	10	C	2.2	375	495-1522-1-ND	.62	5.41	47.23	495-1522-2-ND	750	154.50	B45197A2226K309
10	22	10	B	2.2	800	495-1677-1-ND	.70	6.08	53.09	495-1677-2-ND	2,000	215.90/M	B45197A2226K209
10	33	10	C	3.3	375	495-1523-1-ND	.69	5.98	52.25	495-1523-2-ND	750	171.00	B45197A2336K309
10	47	10	C	4.7	300	495-1524-1-ND	.72	6.27	54.76	495-1524-2-ND	750	178.50	B45197A2476K309
10	47	10	D	4.7	200	495-1525-1-ND	.87	7.61	66.46	495-1525-2-ND	750	216.75	B45197A2476K409
10	68	20	C	6.8	250	495-1526-1-ND	.74	6.46	56.43	495-1526-2-ND	750	184.50	B45197A2686M309
10	68	10	D	6.8	150	495-1527-1-ND	.87	7.61	66.46	495-1527-2-ND	750	216.75	B45197A2686K409
10	100	10	C	10	250	495-1528-1-ND	.94	8.13	71.06	495-1528-2-ND	750	231.75	B45197A2107K309
10	100	10	D	10	100	495-1529-1-ND	.98	8.57	74.82	495-1529-2-ND	750	244.50	B45197A2107K409
10	100	10	E	10	100	495-1530-1-ND	1.64	14.26	124.56	495-1530-2-ND	400	216.80	B45197A2107K509
10	150	10	D	15	100	495-1531-1-ND	1.05	9.09	79.42	495-1531-2-ND	750	259.50	B45197A2157K409
10	150	10	E	15	100	495-1532-1-ND	1.64	14.26	124.56	495-1532-2-ND	400	216.80	B45197A2157K509
10	220	10	D	22	100	495-1533-1-ND	1.18	10.24	89.45	495-1533-2-ND	750	291.75	B45197A2227K409
10	220	10	E	22	100	495-1534-1-ND	1.77	15.36	134.18	495-1534-2-ND	400	233.60	B45197A2227K509
10	330	10	D	33	150	495-1535-1-ND	1.44	12.54	109.52	495-1535-2-ND	750	389.25	B45197A2337K409
10	330	10	E	33	100	495-1536-1-ND	1.83	15.93	139.19	495-1536-2-ND	400	242.40	B45197A2337K509
10	470	10	E	47	100	495-1537-1-ND	2.05	17.85	155.91	495-1537-2-ND	400	271.60	B45197A2477K509
16	10	10	C	1.6	450	495-1538-1-ND	.62	5.41	47.23	495-1538-2-ND	750	154.50	B45197A3106K309
16	10	10	B	1.6	800	495-1676-1-ND	.65	5.65	49.32	495-1676-2-ND	2,000	200.60/M	B45197A3106K209
16	15	10	C	2.4	400	495-1539-1-ND	.62	5.41	47.23	495-1539-2-ND	750	154.50	B45197A3156K309

(Continued)

Rated Voltage (DC)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DC Leakage Current Max. (µA)	ESR Max. @ 100KHz 20°C (mΩ)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							1	10	100		Qty.	Pricing	
16	22	10	C	3.5	350	495-1540-1-ND	.69	5.98	52.25	495-1540-2-ND	750	171.00	B45197A3226K309
16	33	10	C	5.3	300	495-1541-1-ND	.72	6.27	54.76	495-1541-2-ND	750	178.50	B45197A3336K309
16	33	10	D	5.3	200	495-1542-1-ND	.87	7.61	66.46	495-1542-2-ND	750	216.75	B45197A3336K409
16	47	10	C	7.5	300	495-1543-1-ND	.76	6.60	57.68	495-1543-2-ND	750	188.25	B45197A3476K309
16	47	10	D	7.5	175	495-1544-1-ND	.87	7.61	66.46	495-1544-2-ND	750	216.75	B45197A3476K409
16	68	20	C	11	250	495-1545-1-ND	.91	7.94	69.39	495-1545-2-ND	750	226.50	B45197A3686M309
16	68	10	D	11	150	495-1546-1-ND	.98	8.57	74.82	495-1546-2-ND	750	244.50	B45197A3686K409
16	68	10	E	11	150	495-1547-1-ND	1.64	14.26	124.56	495-1547-2-ND	400	216.80	B45197A3686K509
16	100	10	D	16	150	495-1548-1-ND	1.05	9.09	79.42	495-1548-2-ND	750	259.50	B45197A3107K409
16	100	10	E	16	100	495-1549-1-ND	1.64	14.26	124.56	495-1549-2-ND	400	216.80	B45197A3107K509
16	150	10	D	24	150	495-1550-1-ND	1.31	11.39	99.48	495-1550-2-ND	750	324.75	B45197A3157K409
16	150	10	E	24	100	495-1551-1-ND	1.77	15.36	134.18	495-1551-2-ND	400	233.60	B45197A3157K509
16	220	10	E	35	100	495-1552-1-ND	2.11	18.37	160.51	495-1552-2-ND	400	279.60	B45197A3227K509
20	6.8	10	C	1.4	475	495-1553-1-ND	.65	5.69	49.74	495-1553-2-ND	750	162.75	B45197A4685K309
20	10	10	C	2.0	450	495-1554-1-ND	.65	5.69	49.74	495-1554-2-ND	750	162.75	B45197A4106K309
20	15	10	C	3.0	400	495-1555-1-ND	.69	5.98	52.25	495-1555-2-ND	750	171.00	B45197A4156K309
20	22	10	D	4.4	200	495-1556-1-ND	.91	7.94	69.39	495-1556-2-ND	750	226.50	B45197A4226K409
20	33	10	D	6.6	200	495-1557-1-ND	.91	7.94	69.39	495-1557-2-ND	750	226.50	B45197A4336K409
20	33	10	E	6.6	200	495-1558-1-ND	1.72	14.93	130.42	495-1558-2-ND	400	227.20	B45197A4336K509
20	47	10	D	9.4	250	495-1559-1-ND	.98	8.57	74.82	495-1559-2-ND	750	244.50	B45197A4476K409
20	47	10	E	9.4	150	495-1560-1-ND	1.72	14.93	130.42	495-1560-2-ND	400	227.20	B45197A4476K509
20	68	10	D	14	300	495-1561-1-ND	1.05	9.09	79.42	495-1561-2-ND	750	259.50	B45197A4686K409
20	68	10	E	14	200	495-1562-1-ND	1.77	15.36	134.18	495-1562-2-ND	400	233.60	B45197A4686K509
20	100	10	E	20	150	495-1563-1-ND	1.83	15.93	139.19	495-1563-2-ND	400	242.40	B45197A4107K509
25	4.7	10	C	1.2	525	495-1564-1-ND	.65	5.69	49.74	495-1564-2-ND	750	162.75	B45197A5475K309
25	10	10	C	2.5	450	495-1565-1-ND	.69	5.98	52.25	495-1565-2-ND	750	171.00	B45197A5106K309
25	15	10	D	3.8	230	495-1566-1-ND	.91	7.94	69.39	495-1566-2-ND	750	226.50	B45197A5156K409
25	22	10	D	5.5	230	495-1567-1-ND	1.20	10.44	91.20	495-1567-2-ND	750	327.75	B45197A5226K409
25	22	10	E	5.5	230	495-1568-1-ND	1.72	14.93	130.42	495-1568-2-ND	400	227.20	B45197A5226K509
25	33	10	D	8.3	230	495-1569-1-ND	.98	8.57	74.82	495-1569-2-ND	750	244.50	B45197A5336K409
25	33	10	E	8.3	200	495-1570-1-ND	1.72	14.93	130.42	495-1570-2-ND	400	227.20	B45197A5336K509
25	47	10	D	12	250	495-1571-1-ND	1.05	9.09	79.42	495-1571-2-ND	750	259.50	B45197A5476K409
25	47	10	E	12	200	495-1572-1-ND	1.77	15.36	134.18	495-1572-2-ND	400	233.60	B45197A5476K509
25	68	10	E	17	200	495-1573-1-ND	1.83	15.93	139.19	495-1573-2-ND	400	242.40	B45197A5686K509
35	3.3	10	C	1.2	550	495-1574-1-ND	.68	5.93	51.83	495-1574-2-ND	750	169.50	B45197A6335K309
35	4.7	10	D	1.6	300	495-1575-1-ND	1.00	8.71	76.08	495-1575-2-ND	750	248.25	B45197A6475K409
35	6.8	10	D	2.4	300	495-1576-1-ND	1.00	8.71	76.08	495-1576-2-ND	750	248.25	B45197A6685K409
35	6.8	10	E	2.4	300	495-1577-1-ND	1.80	15.69	137.10	495-1577-2-ND	400	238.80	B45197A6685K509
35	10	10	D	3.5	260	495-1578-1-ND	1.00	8.71	76.08	495-1578-2-ND	750	248.25	B45197A6106K409
35	10	10	E	3.5	260	495-1579-1-ND	1.80	15.69	137.10	495-1579-2-ND	400	238.80	B45197A6106K509
35	15	10	D	5.3	260	495-1580-1-ND	1.00	8.71	76.08	495-1580-2-ND	750	248.25	B45197A6156K409
35	15	10	E	5.3	260	495-1581-1-ND	1.80	15.69	137.10	495-1581-2-ND	400	238.80	B45197A6156K509
35	22	10	D	7.7	260	495-1582-1-ND	1.40	12.15	106.17	495-1582-2-ND	750	346.50	B45197A6226K409
35	22	10	E	7.7	260	495-1583-1-ND	1.80	15.65	136.69	495-1583-2-ND	400	238.00	B45197A6226K509
35	33	10	E	12	260	495-1584-1-ND	2.02	17.56	153.41	495-1584-2-ND	400	267.20	B45197A6336K509
35	47	10	E	16	230	495-1585-1-ND	2.13	18.52	161.77	495-1585-2-ND	400	281.60	B45197A6476K509
50	4.7	10	D	2.4	300	495-1586-1-ND	1.22	10.62	92.80	495-1586-2-ND	750	303.00	B45197A7475K409
50	6.8	10	D	3.4	400	495-1587-1-ND	1.22	10.62	92.80	495-1587-2-ND	750	303.00	B45197A7685K409
50	6.8	10	E	3.4	300	495-1588-1-ND	2.21	19.24	168.04	495-1588-2-ND	400	292.80	B45197A7685K509
50	10	10	E	5.0	300	495-1589-1-ND	1.99	17.31	151.20	495-1589-2-ND	400	289.60	B45197A7106K509
Polymer Tantalum Capacitors Ultra-Low ESR													
2.5	220	20	V	55	25	495-2290-1-ND	1.95	16.97	148.20	495-2290-2-ND	1,000	663.00	B76002V2279M025
2.5	220	20	V	55	35	495-1590-1-ND	2.30	20.00	174.72	—	—	—	B76002V2279M035
2.5	220	20	V	55	45	495-2291-1-ND	1.75	15.23	133.00	495-2291-2-ND	1,000	595.00	B76002V2279M045
2.5	330	20	V	83	45	495-1591-1-ND	2.12	18.44	161.12	495-1591-2-ND	1,000	721.00	B76002V3379M045
4.0	220	20	V	88	25	495-2294-1-ND	1.75	15.23	133.00	495-2294-2-ND	1,000	595.00	B76004V2279M025
4.0	220	20	V	88	45	495-1592-1-ND	1.99	17.27	150.90	495-1592-2-ND	1,000	675.00	B76004V2279M045
4.0	470	20	D	188	25	495-2292-1-ND	2.75	23.93	209.00	495-2292-2-ND	750	750.75	B76004D4779M25K2
4.0	470	20	D	188	40	495-1598-1-ND	2.30	20.00	174.72	495-1598-2-ND	500	418.50	B76004D4779M40K14
4.0	680	20	E	272	40	495-2293-1-ND	3.30	28.71	250.80	495-2293-2-ND	400	480.48	B76004E6879M040
6.3	100	20	V	63	45	495-1593-1-ND	1.99	17.27	150.90	495-1593-2-ND	1,000	675.00	B76006V1079M045
6.3	150	20	D	95	55	495-2296-1-ND	2.45	21.32	186.20	495-2296-2-ND	750	668.85	B76006D1579M055
6.3	150	20	V	95	25	495-2300-1-ND	1.75	15.23	133.00	495-2300-2-ND	1,000	595.00	B76006V1579M025
6.3	150	20	V	95	35	495-2301-1-ND	1.50	13.05	114.00	495-2301-2-ND	1,000	595.00	B76006V1579M035
6.3	150	20	V	95	45	495-1594-1-ND	2.30	20.00	174.72	495-1594-2-ND	1,000	782.00	B76006V1579M45K11
6.3	150	20	X	95	70	495-2304-1-ND	1.75	15.23	133.00	—	—	—	B76006X1579M070
6.3	220	20	D	139	40	495-2297-1-ND	2.45	21.32	186.20	—	—	—	B76006D2279M040
6.3	220	20	V	139	25	495-2302-1-ND	1.75	15.23	133.00	495-2302-2-ND	1,000	595.00	B76006V2279M25K14
6.3	220	20	D	139	45	495-1600-1-ND	2.45	21.32	186.20	495-1600-2-ND	750	669.00	B76006D2279M045K14
6.3	220	20	D	139	50	495-1599-1-ND	2.35	20.43	178.49	—	—	—	B76006D2279M50K14
6.3	220	20	V	139	40	495-1596-1-ND	2.30	20.00	174.72	495-1596-2-ND	1,000	782.00	B76006V2279M40K14
6.3	220	20	V	139	45	495-1595-1-ND	1.99	17.27	150.90	495-1595-2-ND	1,000	675.00	B76006V2279M045
6.3	330	20	D	208	25	495-2298-1-ND	2.45	21.32	186.20	—	—	—	B76006D3379M025
6.3	330	20	D	208	45	495-1601-1-ND	2.40	20.91	182.67	495-1601-2-ND	750	656.25	B76006D3379M045
6.3	330	20	D	208	40	495-1602-1-ND	2.65	23.02	201.06	495-1602-2-ND	750	722.25	B76006D3379M040
6.3	470	20	E	296	35	495-1603-1-ND	4.03	35.03	305.98	—	—	—	B76006E4779M035
6.3	470	20	E	296	40	495-2299-1-ND	2.50	21.75	190.00	495-2299-2-ND	400	364.00	B76006E4779M040
10	68	20	V	68	45	495-2309-1-ND	1.95	16.97	148.20	495-2309-2-ND	1,000	663.00	B76010V6869M045
10	68	20	V	68	60	495-2310-1-ND	1.75	15.23	133.00	495-2310-2-ND	1,000	595.00	B76010V6869M060
Polymer Tantalum Capacitors Ultra-Low ESR													
10	100	20	D	100	55	495-1604-1-ND	2.65	23.02	201.06	495-1604-2-ND	500	481.50	B76010D1079M055
10	100	20	D	100	80	495-2305-1-ND	2.45	21.32	186.20	495-2305-2-ND	750	668.85	B76010D1079M080
10	100	20	V	100	55	495-2308-1-ND	1.95	16.97	148.20	495-2308-2-ND	1,000	663.00	B76010V1079M05511
10	100	20	V	100	80	495-1597-1-ND	2.30	20.00	174.72	495-1597-2-ND	1,000	782.00	B76010V1079M080
10	150	20	D	150	55	495-2306-1-ND	2.45	21.32	186.20	495-2306-2-ND	750	668.85	B76010D1579M055
10	220	20	D	220	55	495-2307-1-ND	2.45	21.32	186.20	495-2307-2-ND	750	668.85	B76010D2279M055
16	47	20	V	75	70	495-2311-1-ND	1.95	16.97	148.20	495-2311-2-ND	1,000	663.00	B76016V4769M070
Multiple Anode Ultra-Low ESR Tantalum Capacitors													
4.0	680	10	E	27	30	495-1606-1-ND	8.21	71.39	623.66	495-1606-2-ND	400	1194.80	B45396R0687K509
4.0	1000	10	E	40	30	495-1607-1-ND	9.27	80.68	704.75	495-1607-2-ND	400	1350.00	B45396R0108K509V10
6.3	470	10	E	30	30	495-1608-1-ND	8.21	71.39	623.66	495-1608-2-ND	400	1086.00	B45396R1477K509
10	330	10	E	33	35	495-1609-1-ND	8.21	71.39	623.66	495-1609-2-ND	400	1086.00	B45396R2337K509
Multiple Anode Polymer Ultra-Low ESR Tantalum Capacitors													
4.0	680	20	E	270	18	495-1612-1-ND	9.20	80.01	698.90	495-1612-2-ND	400	1338.80	B76304E6879M018
4.0	680	20	E	272	10	495-2312-1-ND	14.50	126.15	1102.00	495-2312-2-ND	400	2111.20	B76304E6879M010
6.3	680	20	E	428	18	495-2315-1-ND	12.50	108.75	950.00	495-2315-2-ND	400	1820.00	B76306E6879M018
6.3	680	20	E	428	10	495-2314-1-ND	14.50	126.15	1102.00	495-2314-2-ND	400	2111.20	B76306E6879M010

F

ROHM

TC and TCO Series
Standard Tantalum and Conductive Polymer Electrolytic Capacitors

Features: Small package, large capacitance chip tantalum capacitor. These low impedance capacitors are ideal for digital and low voltage circuits used in portable electronic equipment.

TC Series:

Specifications: • **Capacitance Tolerance:** ±20% • **Operating Temperature Range:** -55°C ~ 125°C (derated voltage from 85°C ~ 125°C) • **Tangent of Loss Angle:** Maximum 24% at 120Hz (25°C) • **Leakage Current:** 0.5μA or 0.01CV whichever is greater • **Impedance:** Max 27.5Ω at 100kHz

TCO Series:

Specifications: • **Capacitance Tolerance:** ±20% • **Operating Temperature Range:** -55°C ~ 105°C (derated voltage from 85°C ~ 105°C) • **Tangent of Loss Angle: (A size code)** Maximum 6% at 120Hz (25°C) **(B size code)** Maximum 8% at 120Hz (25°C) • **Leakage Current: (A size code)** 3μA or 0.1CV whichever is greater **(B size code)** less than 0.1CV μA • **Impedance: (A size code)** Max 0.3 or 0.5 or 0.8Ω at 100kHz **(B size code)** Maximum 0.2Ω at 100kHz

Case Size	Size Code	Dimension (mm)				
		L	W1	W2	H	S
2012	P	2	1.25	0.9	1.2 (Max.)	0.45
3216	A	3.2	1.6	1.2	1.6	0.8
1608	M	1.6	0.85	0.55	0.8	0.5
3528	B	3.5	2.8	1.9	1.9	0.8

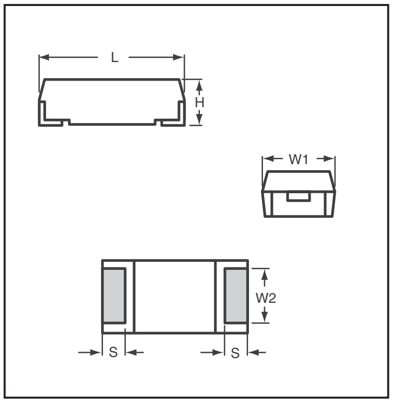

W.V. (DC)	Cap. (μF)	Size Code	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Rohm Part No.
TC Series — Standard Tantalum										
4	2.2	P	511-1427-1-ND	.33	2.83	24.70	511-1427-2-ND	3,000	117.00/M	TCP0G225M8R
	3.3	P	511-1428-1-ND	.33	2.83	24.70	511-1428-2-ND	3,000	117.00/M	TCP0G335M8R
	4.7	A	511-1429-1-ND	.33	2.83	24.70	511-1429-2-ND	2,000	117.00/M	TCA0G475M8R
	10	A	511-1430-1-ND	.33	2.83	24.70	511-1430-2-ND	2,000	117.00/M	TCA0G106M8R
	10	P	511-1431-1-ND	.33	2.83	24.70	511-1431-2-ND	3,000	117.00/M	TCP0G106M8R
	15	A	511-1432-1-ND	.40	3.48	30.40	511-1432-2-ND	2,000	144.00/M	TCA0G156M8R
	15	P	511-1433-1-ND	.39	3.35	29.26	511-1433-2-ND	3,000	139.00/M	TCP0G156M8R
	22	A	511-1434-1-ND	.33	2.83	24.70	511-1434-2-ND	2,000	117.00/M	TCA0G226M8R
	22	P	511-1435-1-ND	.49	4.22	36.86	511-1435-2-ND	3,000	175.00/M	TCP0G226M8R
	22	M	511-1493-1-ND	.60	5.22	45.60	511-1493-2-ND	4,000	216.00/M	TCM0G226M8R
	33	A	511-1436-1-ND	.33	2.83	24.70	511-1436-2-ND	2,000	117.00/M	TCA0G336M8R
	47	A	511-1437-1-ND	.33	2.83	24.70	511-1437-2-ND	2,000	117.00/M	TCA0G476M8R
6.3	1.5	P	511-1438-1-ND	.33	2.83	24.70	511-1438-2-ND	3,000	117.00/M	TCP0J155M8R
	2.2	P	511-1439-1-ND	.33	2.83	24.70	511-1439-2-ND	3,000	117.00/M	TCP0J225M8R
	3.3	A	511-1440-1-ND	.33	2.83	24.70	511-1440-2-ND	2,000	117.00/M	TCA0J335M8R
	3.3	P	511-1441-1-ND	.33	2.83	24.70	511-1441-2-ND	3,000	117.00/M	TCP0J335M8R
	4.7	A	511-1442-1-ND	.33	2.83	24.70	—	—	—	TCA0J475M8R
	4.7	P	511-1443-1-ND	.33	2.83	24.70	511-1443-2-ND	3,000	117.00/M	TCP0J475M8R
	6.8	A	511-1444-1-ND	.33	2.83	24.70	—	—	—	TCA0J685M8R
	6.8	P	511-1445-1-ND	.39	3.35	29.26	511-1445-2-ND	3,000	139.00/M	TCP0J685M8R
	10	A	511-1446-1-ND	.33	2.83	24.70	511-1446-2-ND	2,000	117.00/M	TCA0J106M8R
	10	P	511-1447-1-ND	.36	3.09	26.98	511-1447-2-ND	3,000	128.00/M	TCP0J106M8R
	10	M	511-1494-1-ND	.60	5.22	45.60	511-1494-2-ND	4,000	216.00/M	TCM0J106M8R
	15	P	511-1448-1-ND	.65	5.61	49.02	511-1448-2-ND	3,000	232.00/M	TCP0J156M8R
	15	A	511-1449-1-ND	.33	2.83	24.70	511-1449-2-ND	2,000	117.00/M	TCA0J156M8R
	22	A	511-1450-1-ND	.30	2.57	22.42	511-1450-2-ND	2,000	106.00/M	TCA0J226M8R
	33	A	511-1451-1-ND	.33	2.83	24.70	511-1451-2-ND	2,000	117.00/M	TCA0J336M8R
	47	A	511-1452-1-ND	.33	2.83	24.70	511-1452-2-ND	2,000	117.00/M	TCA0J476M8R
10	1	P	511-1453-1-ND	.29	2.52	22.04	511-1453-2-ND	3,000	104.00/M	TCP1A105M8R
	1.5	P	511-1454-1-ND	.33	2.83	24.70	511-1454-2-ND	3,000	117.00/M	TCP1A155M8R
	1.5	A	511-1455-1-ND	.33	2.83	24.70	511-1455-2-ND	2,000	117.00/M	TCA1A155M8R
	2.2	A	511-1456-1-ND	.33	2.83	24.70	511-1456-2-ND	2,000	117.00/M	TCA1A225M8R
	2.2	M	511-1495-1-ND	.55	4.79	41.80	511-1495-2-ND	4,000	198.00/M	TCM1A225M8R
	2.2	P	511-1457-1-ND	.33	2.83	24.70	511-1457-2-ND	3,000	117.00/M	TCP1A225M8R
	3.3	P	511-1458-1-ND	.33	2.83	24.70	511-1458-2-ND	3,000	117.00/M	TCP1A335M8R
	3.3	A	511-1459-1-ND	.33	2.83	24.70	511-1459-2-ND	2,000	117.00/M	TCA1A335M8R
	4.7	A	511-1460-1-ND	.33	2.83	24.70	511-1460-2-ND	2,000	117.00/M	TCA1A475M8R
	4.7	P	511-1461-1-ND	.39	3.35	29.26	511-1461-2-ND	3,000	139.00/M	TCP1A475M8R
	4.7	M	511-1496-1-ND	.60	5.22	45.60	511-1496-2-ND	4,000	216.00/M	TCM1A475M8R
	6.8	A	511-1462-1-ND	.33	2.83	24.70	511-1462-2-ND	2,000	117.00/M	TCA1A685M8R
	10	A	511-1463-1-ND	.33	2.83	24.70	511-1463-2-ND	2,000	117.00/M	TCA1A106M8R
	15	A	511-1464-1-ND	.33	2.83	24.70	511-1464-2-ND	2,000	117.00/M	TCA1A156M8R
	22	A	511-1465-1-ND	.33	2.83	24.70	511-1465-2-ND	2,000	117.00/M	TCA1A226M8R
16	1	A	511-1466-1-ND	.33	2.83	24.70	511-1466-2-ND	2,000	117.00/M	TCA1C105M8R
	1	P	511-1467-1-ND	.33	2.83	24.70	511-1467-2-ND	3,000	117.00/M	TCP1C105M8R
	1	M	511-1497-1-ND	.50	4.35	38.00	511-1497-2-ND	4,000	180.00/M	TCM1C105M8R
	1.5	A	511-1468-1-ND	.33	2.83	24.70	511-1468-2-ND	2,000	117.00/M	TCA1C155M8R
	2.2	A	511-1469-1-ND	.33	2.83	24.70	511-1469-2-ND	2,000	117.00/M	TCA1C225M8R
	3.3	A	511-1470-1-ND	.33	2.83	24.70	511-1470-2-ND	2,000	117.00/M	TCA1C335M8R
	4.7	A	511-1471-1-ND	.33	2.83	24.70	511-1471-2-ND	2,000	117.00/M	TCA1C475M8R
	6.8	A	511-1472-1-ND	.33	2.83	24.70	511-1472-2-ND	2,000	117.00/M	TCA1C685M8R
	10	A	511-1473-1-ND	.33	2.83	24.70	511-1473-2-ND	2,000	117.00/M	TCA1C106M8R
20	1	A	511-1474-1-ND	.33	2.83	24.70	511-1474-2-ND	2,000	117.00/M	TCA1D105M8R
TCO Series — Conductive Polymer Type										
4	33	A	511-1596-1-ND	1.13	9.84	85.92	511-1596-2-ND	2,000	407.00/M	TCOA0G336M8R
6.3	10	A	511-1597-1-ND	1.00	8.68	75.81	511-1597-2-ND	2,000	359.00/M	TCOA0J106M8R
	22	A	511-1598-1-ND	1.13	9.84	85.92	511-1598-2-ND	2,000	407.00/M	TCOA0J226M8R
	47	B	511-1600-1-ND	1.40	12.15	106.13	511-1600-2-ND	2,000	503.00/M	TCOB0J476M8R
10	10	A	511-1599-1-ND	1.00	8.68	75.81	511-1599-2-ND	2,000	359.00/M	TCOA1A106M8R
	33	B	511-1601-1-ND	1.40	12.15	106.13	511-1601-2-ND	2,000	503.00/M	TCOB1A336M8R

TCFG Series Fused Tantalum Electrolytic Capacitors

Case Size	Size Code	Dimension (mm)				
		L	W1	W2	H	S
2012	P	2	1.25	0.9	1.2 (Max.)	0.45
3216	A	3.2	1.6	1.2	1.6	0.8

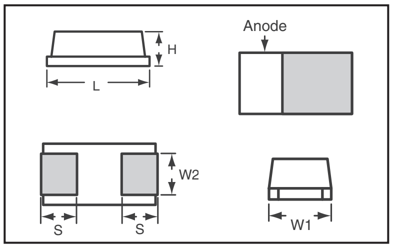

Features: • Safety design by built-in open function • Wide capacitance range • Screening by thermal shock **Specifications:** • Capacitance Tolerance: 20% • Operating Temperature Range: -55°C ~ 125°C (derated voltage from 85°C ~ 125°C) • DC Leakage Current: 0.5μA or 0.01CV, whichever is greater

W.V. (DC)	Cap. (μF)	Size Code	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Rohm Part No.
4	22	P	511-1487-1-ND	.60	5.22	45.60	511-1487-2-ND	2,000	216.00/M	TCFGP0G226M8R
	47	A	511-1476-1-ND	.33	2.83	24.70	511-1476-2-ND	2,000	117.00/M	TCFGA0G476M8R
6.3	10	P	511-1488-1-ND	.36	3.09	26.98	511-1488-2-ND	2,000	128.00/M	TCFGP0J106M8R
	15	P	511-1489-1-ND	.60	5.22	45.60	511-1489-2-ND	2,000	216.00/M	TCFGP0J156M8R
	22	A	511-1477-1-ND	.36	3.09	26.98	511-1477-2-ND	2,000	128.00/M	TCFGA0J226M8R
	33	A	511-1478-1-ND	.50	4.35	38.00	511-1478-2-ND	2,000	180.00/M	TCFGA0J336M8R
10	2.2	P	511-1490-1-ND	.43	3.70	32.30	511-1490-2-ND	2,000	153.00/M	TCFGP1A225M8R
	4.7	P	511-1491-1-ND	.36	3.09	26.98	511-1491-2-ND	2,000	153.00/M	TCFGP1A475M8R
	10	A	511-1479-1-ND	.36	3.09	26.98	511-1479-2-ND	2,000	128.00/M	TCFGA1A106M8R
	15	A	511-1480-1-ND	.44	3.78	33.06	511-1480-2-ND	2,000	157.00/M	TCFGA1A156M8R
	22	A	511-1481-1-ND	.85	7.40	64.60	511-1481-2-ND	2,000	306.00/M	TCFGA1A226M8R
16	1	A	511-1482-1-ND	.36	3.09	26.98	511-1482-2-ND	2,000	128.00/M	TCFGA1C105M8R
	1	P	511-1492-1-ND	.40	3.48	30.40	511-1492-2-ND	2,000	144.00/M	TCFGP1C105M8R
	3.3	A	511-1484-1-ND	.36	3.09	26.98	511-1484-2-ND	2,000	128.00/M	TCFGA1C335M8R
	4.7	A	511-1485-1-ND	.36	3.09	26.98	511-1485-2-ND	2,000	128.00/M	TCFGA1C475M8R
	10	A	511-1483-1-ND	.55	4.79	41.80	511-1483-2-ND	2,000	198.00/M	TCFGA1C106M8R
20	1	A	511-1486-1-ND	.36	3.09	26.98	511-1486-2-ND	2,000	128.00/M	TCFGA1D105M8R

TCT Series Tantalum Electrolytic Capacitors With Bottom Surface Electrodes

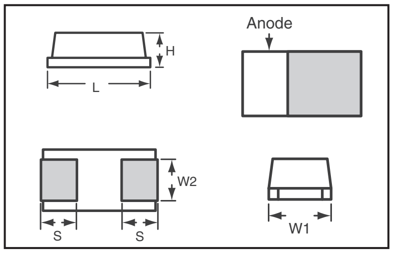

Features: The compact terminal construction allows for a larger tantalum element, therefore allowing significantly higher capacitances than conventional units of the same size. **Specifications:** • Capacitance Tolerance: 20% • Operating Temperature Range: -55°C ~ 125°C (derated voltage from 85°C ~ 125°C)

Case Size	Size Code	Dimension (mm)				
		L	W1	W2	H	S
2012	P	2	1.25	0.85	1.2 (Max.)	0.5
3216	AL	3.2	1.6	1.2	1.1	0.8

W.V. (DC)	Cap. (μF)	Size Code	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Rohm Part No.
4	47	P	511-1504-1-ND	.68	5.87	51.30	511-1504-2-ND	3,000	243.00/M	TCTP0G476M8R
6.3	33	P	511-1505-1-ND	.68	5.87	51.30	511-1505-2-ND	3,000	243.00/M	TCTP0J336M8R
	100	AL	511-1498-1-ND	.75	6.53	57.00	511-1498-2-ND	3,000	270.00/M	TCTAL0J107M8R
10	22	P	511-1506-1-ND	.75	6.53	57.00	511-1506-2-ND	3,000	270.00/M	TCTP1A226M8R
	33	AL	511-1499-1-ND	.75	6.53	57.00	511-1499-2-ND	3,000	270.00/M	TCTAL1A336M8R
	47	AL	511-1500-1-ND	.65	5.66	49.40	511-1500-2-ND	3,000	234.00/M	TCTAL1A476M8R
16	15	AL	511-1501-1-ND	.80	6.96	60.80	511-1501-2-ND	3,000	288.00/M	TCTAL1C156M8R
	22	AL	511-1502-1-ND	.80	6.96	60.80	511-1502-2-ND	3,000	288.00/M	TCTAL1C226M8R
25	4.7	AL	511-1503-1-ND	.75	6.53	57.00	511-1503-2-ND	3,000	270.00/M	TCTAL1E475M8R

VISHAY. Sprague

TANTALEX® Resin Coated Solid-Electrolyte Capacitors — 199D Series

Fig. 1

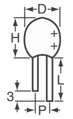

Fig. 2

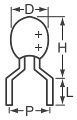

Performance Characteristics:

- Operating Temperature: -55°C ~ 85°C (Up to 125°C with voltage deratings)

Features:

- Low leakage current and low dissipation factor

RoHS COMPLIANT

Dimensions (mm)								
	Fig. 1				Fig. 2			
Case	L	D Max.	H Max.	P 0.60	L	D Max.	H Max.	P 0.60
A	15.0	4.40	7.11	2.54	6.1 ±0.76	4.40	9.61	5.08
B	15.0	5.00	7.62	2.54	6.1 ±0.76	5.00	10.12	5.08
C	15.0	5.50	9.14	2.54	6.1 ±0.76	5.50	11.64	5.08
D	15.0	6.00	10.16	2.54	6.1 ±0.76	6.00	12.66	5.08
E	15.0	8.60	12.50	5.08	25.4 ±3.1	8.60	15.00	5.08
F	15.0	9.60	16.50	5.08	25.4 ±3.1	9.60	19.00	5.08

Fig.	Case Code	Capacitance (µF)	Capacitance Tolerance	Max. DCL @ + 25°C (µA)	Max. DF @ + 25°C 120Hz (%)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
10 Volt @ 85°C (7 Volt @ 125°C)													
1	A	4.7	±10%	0.5	6	718-1219-ND	.65	.38	.26	—	—	—	199D475X9010A1V1E3
1	B	10	±10%	1	8	718-1212-ND	.90	.53	.36	—	—	—	199D106X9010B1V1E3
1	C	22	±10%	2	8	718-1188-ND	1.01	.63	.46	—	—	—	199D226X9010C1V1E3
1	D	33	±10%	3	8	718-1191-ND	1.12	.70	.52	—	—	—	199D336X9010D1V1E3
1	D	47	±10%	4	8	718-1195-ND	1.75	1.13	.87	—	—	—	199D476X9010D1V1E3
16 Volt @ 85°C (10 Volt @ 125°C)													
1	A	2.2	±10%	0.5	6	718-1214-ND	.65	.38	.26	—	—	—	199D225X9016A1V1E3
1	A	3.3	±10%	0.5	6	718-1217-ND	.65	.38	.26	—	—	—	199D335X9016A1V1E3
1	B	4.7	±10%	0.7	6	718-1220-ND	.80	.47	.32	—	—	—	199D475X9016B1V1E3
1	C	10	±10%	1.5	8	718-1178-ND	.92	.55	.40	—	—	—	199D106X9016C1V1E3
2	C	10	±10%	1.5	8	718-1183-ND	.92	.55	.40	—	—	—	199D106X9016C6V1E3
2	C	10	±10%	1.5	8	718-1199-1-ND†	.92	.55	.40	718-1199-2-ND	1,000	326.00	199D106X9016C6B1E3
1	C	15	±10%	2.4	8	718-1186-ND	1.00	.63	.47	—	—	—	199D156X9016C1V1E3
1	D	22	±10%	3.5	8	718-1182-ND	1.04	.68	.49	—	—	—	199D226X9016D1V1E3
2	D	22	±10%	3.5	8	718-1189-ND	1.04	.68	.49	—	—	—	199D226X9016D6V1E3
2	D	22	±10%	3.5	8	718-1202-1-ND†	1.04	.68	.49	718-1202-2-ND	1,000	398.00	199D226X9016D6B1E3
1	D	33	±10%	4	8	718-1192-ND	1.75	1.13	.87	—	—	—	199D336X9016D1V1E3
2	F	100	±10%	7	10	718-1164-ND	5.33	3.90	3.18	—	—	—	199D107X9016F6V1E3
2	F	100	±10%	7	10	718-1171-1-ND†	5.33	3.90	3.18	718-1171-2-ND	500	1486.50	199D107X9016F6B1E3
20 Volt @ 85°C (13 Volt @ 125°C)													
1	C	10	±10%	2	8	718-1179-ND	1.00	.63	.47	—	—	—	199D106X9020C1V1E3
2	F	100	±10%	7	10	718-1165-ND	6.11	4.47	3.65	—	—	—	199D107X9020F6V1E3
2	F	100	±10%	7	10	718-1172-1-ND†	6.11	4.47	3.65	718-1172-2-ND	500	1704.00	199D107X9020F6B1E3
25 Volt @ 85°C (17 Volt @ 125°C)													
1	A	1	±10%	0.5	4	718-1209-ND	.65	.38	.26	—	—	—	199D105X9025A1V1E3
1	A	2.2	±10%	0.5	6	718-1215-ND	.65	.38	.26	—	—	—	199D225X9025A1V1E3
1	B	4.7	±10%	1	6	718-1221-ND	.95	.56	.38	—	—	—	199D475X9025B1V1E3
1	C	6.8	±10%	1.5	6	718-1196-ND	1.04	.68	.49	—	—	—	199D685X9025C1V1E3
1	C	10	±10%	2.5	8	718-1180-ND	1.04	.68	.49	—	—	—	199D106X9025C1V1E3
2	C	10	±10%	2.5	8	718-1184-ND	1.04	.68	.49	—	—	—	199D106X9025C6V1E3
2	C	10	±10%	2.5	8	718-1200-1-ND†	1.04	.68	.49	718-1200-2-ND	1,000	398.00	199D106X9025C6B1E3
1	D	15	±10%	3	8	718-1187-ND	1.87	1.24	.96	—	—	—	199D156X9025D1V1E3
1	D	22	±10%	4	8	718-1190-ND	2.41	1.63	1.26	—	—	—	199D226X9025D1V1E3
2	E	47	±10%	6	8	718-1169-ND	4.21	2.90	2.37	—	—	—	199D476X9025E6V1E3
2	E	47	±10%	6	8	718-1176-1-ND†	4.21	2.90	2.37	718-1176-2-ND	500	1051.50	199D476X9025E6B1E3
35 Volt @ 85°C (23 Volt @ 125°C)													
1	A	0.1	±10%	0.5	4	718-1207-ND	.65	.38	.26	—	—	—	199D104X9035A1V1E3
1	A	0.22	±10%	0.5	4	718-1213-ND	.65	.38	.26	—	—	—	199D224X9035A1V1E3
1	A	0.33	±10%	0.5	4	718-1216-ND	.65	.38	.26	—	—	—	199D334X9035A1V1E3
1	A	0.47	±10%	0.5	4	718-1206-ND	.65	.38	.26	—	—	—	199D474X9035A1V1E3
2	A	1	±10%	0.5	4	718-1198-1-ND†	.65	.38	.26	718-1198-2-ND	1,000	212.00	199D105X9035A6B1E3
1	A	1	±20%	0.5	4	718-1203-ND	.65	.38	.26	—	—	—	199D105X0035A1V1E3
1	A	1	±10%	0.5	4	718-1204-ND	.65	.38	.26	—	—	—	199D105X9035A1V1E3
2	A	1	±10%	0.5	4	718-1210-ND	.65	.38	.26	—	—	—	199D105X9035A6V1E3
1	B	2.2	±10%	0.7	6	718-1205-ND	.85	.50	.34	—	—	—	199D225X9035B1V1E3
1	B	3.3	±10%	1	6	718-1218-ND	1.00	.58	.40	—	—	—	199D335X9035B1V1E3
1	C	4.7	±10%	1.5	6	718-1193-ND	.98	.60	.44	—	—	—	199D475X9035C1V1E3
1	D	6.8	±10%	2.3	6	718-1197-ND	1.04	.68	.49	—	—	—	199D685X9035D1V1E3
1	D	10	±10%	3.5	8	718-1181-ND	1.62	1.04	.79	—	—	—	199D106X9035D1V1E3
2	D	10	±10%	3.5	8	718-1185-ND	1.62	1.04	.79	—	—	—	199D106X9035D6V1E3
2	D	10	±10%	3.5	8	718-1201-1-ND†	1.62	1.04	.79	718-1201-2-ND	1,000	675.00	199D106X9035D6B1E3
2	E	22	±10%	5	8	718-1166-ND	2.79	1.89	1.49	—	—	—	199D226X9035E6V1E3
2	E	22	±10%	5	8	718-1173-1-ND†	2.79	1.89	1.49	718-1173-2-ND	500	652.50	199D226X9035E6B1E3
2	F	33	±10%	6	8	718-1175-1-ND†	4.48	3.12	2.56	718-1175-2-ND	500	1160.00	199D336X9035F6B1E3
2	F	33	±10%	6	8	718-1168-ND	4.48	3.12	2.56	—	—	—	199D336X9035F6V1E3
2	F	47	±10%	7	8	718-1170-ND	6.11	4.47	3.65	—	—	—	199D476X9035F6V1E3
2	F	47	±10%	7	8	718-1177-1-ND†	6.11	4.47	3.65	718-1177-2-ND	500	1704.00	199D476X9035F6B1E3
50 Volt @ 85°C (33 Volt @ 125°C)													
1	A	0.1	±10%	0.5	4	718-1208-ND	.73	.43	.29	—	—	—	199D104X9050A1V1E3
1	B	1.0	±10%	0.5	4	718-1211-ND	.83	.48	.33	—	—	—	199D105X9050B1V1E3
1	D	4.7	±10%	2	6	718-1194-ND	1.37	.87	.65	—	—	—	199D475X9050D1V1E3
2	F	22	±10%	6	8	718-1167-ND	6.88	5.09	4.21	—	—	—	199D226X9050F6V1E3
2	F	22	±10%	6	8	718-1174-1-ND†	6.88	5.09	4.21	718-1174-2-ND	500	1994.00	199D226X9050F6B1E3

† Cut Tape

MICROTAN® Frameless Solid Tantalum Molded Chip Capacitors — 298D Series

RoHS COMPLIANT

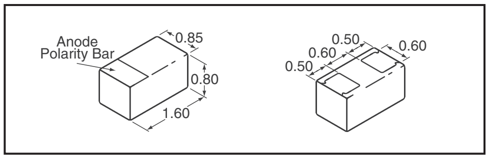

Performance Characteristics: • Operating Temperature: -55°C ~ 85°C (Up to 125°C with voltage deratings)

Features: • 0603 Footprint

Capacitance (µF)	Capacitance Tolerance	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Vishay Part No.
6.3 Volt @ 85°C (4 Volt @ 125°C)												
4.7	±20%	0.5	8	8	0.09	718-1162-1-ND	.93	.63	.50	718-1162-2-ND	375.00/M	298D475X06R3M2T
10	±20%	0.6	8	8	0.09	718-1160-1-ND	1.10	.75	.60	718-1160-2-ND	446.00/M	298D106X06R3M2T
10 Volt @ 85°C (7 Volt @ 125°C)												
4.7	±20%	0.5	6	10	0.08	718-1161-1-ND	.93	.63	.50	718-1161-2-ND	375.00/M	298D475X0010M2T
4.7	±10%	0.5	6	10	0.08	718-1163-1-ND	.93	.63	.50	718-1163-2-ND	375.00/M	298D475X9010M2T
10	±20%	1	8	8	0.08	718-1159-1-ND	1.55	1.05	.84	718-1159-2-ND	630.00/M	298D106X0010M2T
16 Volt @ 85°C (10 Volt @ 125°C)												
1	±20%	0.5	6	20	0.045	718-1157-1-ND	.93	.63	.50	718-1157-2-ND	630.00/M	298D105X0016M2T
1	±10%	0.5	6	20	0.045	718-1158-1-ND	.93	.63	.50	718-1158-2-ND	375.00/M	298D105X9016M2T

TANTAMOUNT® Solid Tantalum Commercial Chip Capacitors —

293D and 593D Series

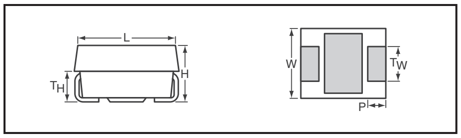

293D Series:

Performance/Electrical Characteristics: • Operating Temperature: -55°C ~ 85°C (Up to 125°C with voltage deratings)

Features: • Meets IEC Specification QC300801/US0001 and EIA 535BAAC

593D Series:

Performance/Electrical Characteristics: • Operating Temperature: -55°C ~ 125°C

Features: • High ripple current carrying capability • Low ESR • Meets EIA 535BAAE and IEC specification QC300801/US0001

Applications: • Switch mode power supplies and converters

Case Code	EIA Size	Dimensions (mm) L	W	H	P	T_W	T_H (Min.)
A	3216-18	3.2 ± 0.20	1.6 ± 0.20	1.6 ± 0.20	0.80 ± 0.30	1.2 ± 0.10	0.70
B	3525-21	3.5 ± 0.20	2.8 ± 0.20	1.9 ± 0.20	0.80 ± 0.30	2.2 ± 0.10	0.70
C	6032-28	6.0 ± 0.30	3.2 ± 0.30	2.5 ± 0.30	1.3 ± 0.30	2.2 ± 0.10	1.0
D	7343-31	7.3 ± 0.30	4.3 ± 0.30	2.8 ± 0.30	1.3 ± 0.30	2.4 ± 0.10	1.0
E	7343-43	7.3 ± 0.30	4.3 ± 0.30	4.0 ± 0.30	1.3 ± 0.30	2.4 ± 0.10	1.0

Rated Voltage (V)	Case Code	Capacitance (µF)	Capacitance Tolerance	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
293D Series															
6.3	A	10	±10%	0.6	6	3.4	0.15	718-1126-1-ND	.13	.88	7.04	718-1126-2-ND	2,000	60.00/M	293D106X96R3A2TE3
	B	10	±10%	0.6	6	2.9	0.17	718-1127-1-ND	.15	.99	7.92	718-1127-2-ND	2,000	67.00/M	293D106X96R3B2TE3
	A	22	±10%	1.3	6	2.9	0.16	718-1139-1-ND	.15	1.02	8.14	718-1139-2-ND	2,000	69.00/M	293D226X96R3A2TE3
	B	22	±10%	1.3	6	2	0.21	718-1140-1-ND	.20	1.32	10.56	718-1140-2-ND	2,000	90.00/M	293D226X96R3B2TE3
	B	47	±10%	2.8	6	1.9	0.21	718-1154-1-ND	.27	1.82	14.52	718-1154-2-ND	2,000	123.00/M	293D476X96R3B2TE3
	B	68	±10%	4.1	6	1.8	0.22	718-1156-1-ND	.27	1.82	14.52	718-1156-2-ND	2,000	123.00/M	293D686X96R3B2TE3
	B	100	±10%	6	15	1.7	0.22	718-1128-1-ND	.27	1.82	14.52	718-1128-2-ND	2,000	123.00/M	293D107X96R3B2TE3
	C	100	±10%	6	6	0.8	0.37	718-1058-1-ND	.36	2.45	19.58	718-1058-2-ND	500	83.00	293D107X96R3C2TE3
	D	100	±10%	6	6	0.7	0.46	718-1059-1-ND	.44	2.97	23.76	718-1059-2-ND	500	101.00	293D107X96R3D2TE3
	D	220	±10%	13.2	8	0.6	0.50	718-1073-1-ND	.70	4.73	37.84	718-1073-2-ND	500	161.00	293D227X96R3D2TE3
10	A	2.2	±10%	0.5	6	6.3	0.11	718-1130-1-ND	.11	.74	5.94	718-1130-2-ND	2,000	50.00/M	293D225X9010A2TE3
	A	4.7	±10%	0.5	6	5	0.12	718-1146-1-ND	.13	.88	7.04	718-1146-2-ND	2,000	60.00/M	293D475X9010A2TE3
	B	4.7	±10%	0.5	6	3.4	0.16	718-1147-1-ND	.18	1.18	9.46	718-1147-2-ND	2,000	80.00/M	293D475X9010B2TE3
	A	10	±20%	1	6	3.4	0.15	718-1118-1-ND	.14	.96	7.70	718-1118-2-ND	2,000	65.00/M	293D106X0010A2TE3
	A	10	±10%	1	6	3.4	0.15	718-1121-1-ND	.14	.96	7.70	718-1121-2-ND	2,000	65.00/M	293D106X9010A2TE3
	B	10	±20%	1	6	2.5	0.18	718-1119-1-ND	.18	1.18	9.46	718-1119-2-ND	2,000	80.00/M	293D106X0010B2TE3
	B	10	±10%	1	6	2.5	0.18	718-1122-1-ND	.18	1.18	9.46	718-1122-2-ND	2,000	80.00/M	293D106X9010B2TE3
	C	10	±10%	1	6	1.8	0.25	718-1047-1-ND	.27	1.82	14.52	718-1047-2-ND	500	61.50	293D106X9010C2TE3
	B	22	±10%	2.2	6	1.9	0.21	718-1137-1-ND	.19	1.27	10.12	718-1137-2-ND	2,000	86.00/M	293D226X9010B2TE3
	C	22	±10%	2.2	6	1.5	0.27	718-1065-1-ND	.27	1.82	14.52	718-1065-2-ND	500	61.50	293D226X9010C2TE3
	B	33	±10%	3.3	6	1.9	0.21	718-1144-1-ND	.27	1.82	14.52	718-1144-2-ND	2,000	123.00/M	293D336X9010B2TE3
	C	33	±10%	3.3	6	1.4	0.28	718-1075-1-ND	.23	1.57	12.54	718-1075-2-ND	500	53.50	293D336X9010C2TE3
	D	33	±10%	3.3	6	0.8	0.43	718-1076-1-ND	.44	2.97	23.76	718-1076-2-ND	500	101.00	293D336X9010D2TE3
	B	47	±10%	4.7	6	1.8	0.22	718-1153-1-ND	.27	1.82	14.52	718-1153-2-ND	2,000	123.00/M	293D476X9010B2TE3
	C	47	±10%	4.7	6	1.1	0.32	718-1087-1-ND	.36	2.45	19.58	718-1087-2-ND	500	83.00	293D476X9010C2TE3
	D	47	±10%	4.7	6	0.7	0.46	718-1088-1-ND	.44	2.97	23.76	718-1088-2-ND	500	101.00	293D476X9010D2TE3
	D	68	±10%	6.8	6	0.7	0.46	718-1095-1-ND	.44	2.97	23.76	718-1095-2-ND	500	101.00	293D686X9010D2TE3
	C	100	±10%	10	8	0.9	0.35	718-1055-1-ND	.36	2.45	19.58	718-1055-2-ND	500	83.00	293D107X9010C2TE3
	D	100	±20%	10	8	0.6	0.50	718-1054-1-ND	.54	3.63	29.04	718-1054-2-ND	500	123.50	293D107X0010D2TE3
	D	100	±10%	10	8	0.6	0.50	718-1056-1-ND	.54	3.63	29.04	718-1056-2-ND	500	123.50	293D107X9010D2TE3
	D	220	±10%	22	8	0.6	0.50	718-1072-1-ND	1.02	6.88	55.00	718-1072-2-ND	500	234.00	293D227X9010D2TE3
	E	220	±10%	22	8	0.5	0.57	718-1026-1-ND	1.64	11.08	88.66	718-1026-2-ND	400	301.60	293D227X9010E2TE3
	E	330	±10%	33	10	0.5	0.57	718-1028-1-ND	1.94	13.12	104.94	718-1028-2-ND	400	356.80	293D337X9010E2TE3
16	A	1	±20%	0.5	4	9.3	0.09	718-1111-1-ND	.13	.88	7.04	718-1111-2-ND	2,000	60.00/M	293D105X0016A2TE3
	A	1	±10%	0.5	4	9.3	0.09	718-1113-1-ND	.13	.88	7.04	718-1113-2-ND	2,000	60.00/M	293D105X9016A2TE3
	A	2.2	±10%	0.5	6	5.9	0.11	718-1131-1-ND	.13	.88	7.04	718-1131-2-ND	2,000	60.00/M	293D225X9016A2TE3
	B	2.2	±10%	0.5	6	4.6	0.14	718-1132-1-ND	.18	1.18	9.46	718-1132-2-ND	2,000	80.00/M	293D225X9016B2TE3
	A	3.3	±10%	0.5	6	5	0.12	718-1142-1-ND	.13	.88	7.04	718-1142-2-ND	2,000	60.00/M	293D335X9016A2TE3
	B	3.3	±10%	0.5	6	3.5	0.16	718-1143-1-ND	.18	1.18	9.46	718-1143-2-ND	2,000	80.00/M	293D335X9016B2TE3
	A	4.7	±10%	0.8	6	5	0.12	718-1148-1-ND	.14	.96	7.70	718-1148-2-ND	2,000	65.00/M	293D475X9016A2TE3
	B	4.7	±10%	0.8	6	2.9	0.17	718-1149-1-ND	.18	1.18	9.46	718-1149-2-ND	2,000	80.00/M	293D475X9016B2TE3
	B	6.8	±10%	1.1	6	2.5	0.18	718-1155-1-ND	.18	1.18	9.46	718-1155-2-ND	2,000	80.00/M	293D685X9016B2TE3
	A	10	±10%	1.6	6	3	0.16	718-1123-1-ND	.15	1.02	8.14	718-1123-2-ND	2,000	69.00/M	293D106X9016A2TE3
	B	10	±20%	1.6	6	2	0.21	718-1120-1-ND	.20	1.32	10.56	718-1120-2-ND	2,000	90.00/M	293D106X0016B2TE3
	B	10	±10%	1.6	6	2	0.21	718-1124-1-ND	.20	1.32	10.56	718-1124-2-ND	2,000	90.00/M	293D106X9016B2TE3
	C	10	±20%	1.6	6	1.8	0.25	718-1042-1-ND	.27	1.82	14.52	718-1042-2-ND	500	61.50	293D106X0016C2TE3
	C	10	±10%	1.6	6	1.8	0.25	718-1048-1-ND	.27	1.82	14.52	718-1048-2-ND	500	61.50	293D106X9016C2TE3
	B	15	±10%	2.4	6	2	0.21	718-1129-1-ND	.20	1.32	10.56	718-1129-2-ND	2,000	90.00/M	293D156X9016B2TE3
	B	22	±10%	3.5	6	1.9	0.21	718-1138-1-ND	.27	1.82	14.52	718-1138-2-ND	2,000	123.00/M	293D226X9016B2TE3
	C	22	±10%	3.5	6	1.4	0.28	718-1066-1-ND	.29	1.98	15.84	718-1066-2-ND	500	67.50	293D226X9016C2TE3
	D	22	±10%	3.5	6	0.8	0.43	718-1067-1-ND	.44	2.97	23.76	718-1067-2-ND	500	101.00	293D226X9016D2TE3
	C	33	±10%	5.3	6	1.1	0.32	718-1077-1-ND	.36	2.45	19.58	718-1077-2-ND	500	83.00	293D336X9016C2TE3
	D	33	±10%	5.3	6	0.7	0.46	718-1078-1-ND	.44	2.97	23.76	718-1078-2-ND	500	101.00	293D336X9016D2TE3
	C	47	±10%	7.5	6	1	0.33	718-1089-1-ND	.36	2.45	19.58	718-1089-2-ND	500	83.00	293D476X9016C2TE3
	D	47	±20%	7.5	6	0.7	0.46	718-1086-1-ND	.44	2.97	23.76	718-1086-2-ND	500	101.00	293D476X0016D2TE3
	D	47	±10%	7.5	6	0.7	0.46	718-1090-1-ND	.44	2.97	23.76	718-1090-2-ND	500	101.00	293D476X9016D2TE3
	D	68	±10%	10.9	6	0.6	0.50	718-1096-1-ND	.54	3.63	29.04	718-1096-2-ND	500	123.50	293D686X9016D2TE3
	D	100	±10%	16	8	0.6	0.50	718-1057-1-ND	.70	4.73	37.84	718-1057-2-ND	500	161.00	293D107X9016D2TE3
	E	100	±10%	16	8	0.6	0.52	718-1023-1-ND	1.34	9.08	72.60	718-1023-2-ND	400	246.80	293D107X9016E2TE3
20	A	1	±10%	0.5	4	8.4	0.09	718-1114-1-ND	.11	.74	5.94	718-1114-2-ND	2,000	50.00/M	293D105X9020A2TE3
	B	2.2	±10%	0.5	6	3.5	0.16	718-1133-1-ND	.15	.99	7.92	718-1133-2-ND	2,000	67.00/M	293D225X9020B2TE3
	A	4.7	±10%	0.9	6	5.0	0.12	718-1150-1-ND	.15	1.02	8.14	718-1150-2-ND	2,000	69.00/M	293D475X9020A2TE3
	B	4.7	±10%	0.9	6	2.9	0.17	718-1151-1-ND	.18	1.18	9.46	718-1151-2-ND	2,000	80.00/M	293D475X9020B2TE3
	C	4.7	±10%	0.9	6	2.3	0.22	718-1081-1-ND	.27	1.82	14.52	718-1081-2-ND	500	61.50	293D475X9020C2TE3
	C	6.8	±10%	1.4	6	1.9	0.24	718-1092-1-ND	.27	1.82	14.52	718-1092-2-ND	500	61.50	293D685X9020C2TE3
	B	10	±10%	2.0	6	2.5	0.18	718-1125-1-ND	.20	1.32	10.56	718-1125-2-ND	2,000	90.00/M	293D106X9020B2TE3
	C	10	±20%	2.0	6	1.7	0.25	718-1043-1-ND	.27	1.82	14.52	718-1043-2-ND	500	61.50	293D106X0020C2TE3
	C	10	±10%	2.0	6	1.7	0.25	718-1049-1-ND	.27	1.82	14.52	718-1049-2-ND	500	61.50	293D106X9020C2TE3
	C	22	±10%	4.4	6	1.1	0.32	718-1068-1-ND	.29	1.98	15.84	718-1068-2-ND	500	67.50	293D226X9020C2TE3
	D	22	±20%	4.4	6	0.7	0.46	718-1063-1-ND	.44	2.97	23.76	718-1063-2-ND	500	101.00	293D226X0020D2TE3
	D	22	±10%	4.4	6	0.7	0.46	718-1069-1-ND	.44	2.97	23.76	718-1069-2-ND	500	101.00	293D226X9020D2TE3
	D	33	±10%	6.6	6	0.7	0.46	718-1079-1-ND	.44	2.97	23.76	718-1079-2-ND	500	101.00	293D336X9020D2TE3
	D	47	±10%	9.4	6	0.7	0.46	718-1091-1-ND	.54	3.63	29.04	718-1091-2-ND	500	123.50	293D476X9020D2TE3
	E	100	±10%	20.0	8	0.5	0.57	718-1024-1-ND	1.64	11.08	88.66	718-1024-2-ND	400	301.60	293D107X9020E2TE3
25	A	0.47	±10%	0.5	4	12	0.08	718-1145-1-ND	.13	.88	7.04	718-1145-2-ND	2,000	60.00/M	293D474X9025A2TE3
	A	1	±10%	0.5	4	7.6	0.10	718-1115-1-ND	.13	.88	7.04	718-1115-2-ND	2,000	60.00/M	293D105X9025A2TE3
	A	2.2	±10%	0.6	6	6.3	0.11	718-1134-1-ND	.15	1.02	8.14	718-1134-2-ND	2,000	69.00/M	293D225X9025A2TE3
	B	2.2	±10%	0.6	6	3.8	0.15	718-1135-1-ND	.20	1.32	10.56	718-1135-2-ND	2,000	90.00/M	293D225X9025B2TE3
	B	4.7	±10%	1.2	6	2.8	0.17	718-1152-1-ND	.20	1.32	10.56	718-1152-2-ND	2,000	90.00/M	293D475X9025B2TE3
	C	4.7	±10%	1.2	6	2	0.24	718-1082-1-ND	.27	1.82	14.52	718-1082-2-ND	500	61.50	293D475X9025C2TE3
	C	10	±20%	2.5	6	1.5	0.27	718-1044-1-ND	.29	1.98	15.84	718-1044-2-ND	500	67.50	293D106X0025C2TE3
	C	10	±10%	2.5	6	1.5	0.27	718-1050-1-ND	.29	1.98	15.84	718-1050-2-ND	500	67.50	293D106X9025C2TE3
	D	10	±20%	2.5	6	1.0	0.39	718-1045-1-ND	.44	2.97	23.76	718-1045-2-ND	500	101.00	293D106X0025D2TE3
	D	10	±10%	2.5	6	1.0	0.39	718-1051-1-ND	.44	2.97	23.76	718-1051-2-ND	500	101.00	293D106X9025D2TE3
	D	15	±10%	3.8	6	0.8	0.43	718-1060-1-ND	.41	2.75	22.00	718-1060-2-ND	500	93.50	293D156X9025D2TE3
	D	22	±20%	5.5	6	0.7	0.46	718-1064-1-ND	.44	2.97	23.76	718-1064-2-ND	500	101.00	293D226X0025D2TE3

(Continued)

F

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Rated Voltage (V)	Case Code	Capacitance (µF)	Capacitance Tolerance	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Vishay Part No.
25	D	22	±10%	5.5	6	0.7	0.46	718-1070-1-ND	.44	2.97	23.76	718-1070-2-ND	500	101.00	293D226X9025D2TE3
	D	33	±10%	8.3	6	0.7	0.46	718-1080-1-ND	1.02	6.88	55.00	718-1080-2-ND	500	234.00	293D336X9025D2TE3
	E	33	±10%	8.3	6	0.6	0.52	718-1027-1-ND	1.34	9.08	72.60	718-1027-2-ND	400	246.80	293D336X9025E2TE3
35	A	0.10	±10%	0.5	4	20	0.06	718-1109-1-ND	.13	.88	7.04	718-1109-2-ND	2,000	60.00/M	293D104X9035A2TE3
	A	0.33	±10%	0.5	4	13	0.08	718-1141-1-ND	.15	1.02	8.14	718-1141-2-ND	2,000	69.00/M	293D334X9035A2TE3
	A	1.0	±10%	0.5	4	7.5	0.10	718-1116-1-ND	.15	1.02	8.14	718-1116-2-ND	2,000	69.00/M	293D105X9035A2TE3
	B	1.0	±20%	0.5	4	5	0.13	718-1112-1-ND	.18	1.18	9.46	718-1112-2-ND	2,000	80.00/M	293D105X0035B2TE3
	B	1.0	±10%	0.5	4	5	0.13	718-1117-1-ND	.18	1.18	9.46	718-1117-2-ND	2,000	80.00/M	293D105X9035B2TE3
	B	2.2	±10%	0.8	6	3.8	0.15	718-1136-1-ND	.19	1.27	10.12	718-1136-2-ND	2,000	86.00/M	293D225X9035B2TE3
	C	2.2	±10%	0.8	6	2.9	0.20	718-1062-1-ND	.24	1.65	13.20	718-1062-2-ND	500	56.00	293D225X9035C2TE3
	C	3.3	±10%	1.2	6	2.1	0.23	718-1074-1-ND	.29	1.98	15.84	718-1074-2-ND	500	67.50	293D335X9035C2TE3
	C	4.7	±10%	1.6	6	1.9	0.24	718-1083-1-ND	.29	1.98	15.84	718-1083-2-ND	500	67.50	293D475X9035C2TE3
	D	4.7	±10%	1.6	6	1.3	0.34	718-1084-1-ND	.39	2.61	20.90	718-1084-2-ND	500	89.00	293D475X9035D2TE3
	D	6.8	±10%	2.4	6	1.1	0.37	718-1093-1-ND	.39	2.61	20.90	718-1093-2-ND	500	89.00	293D685X9035D2TE3
	C	10	±10%	3.5	6	1.6	0.26	718-1052-1-ND	.37	2.48	19.80	718-1052-2-ND	500	84.00	293D106X9035C2TE3
	D	10	±20%	3.5	6	0.8	0.43	718-1046-1-ND	.44	2.97	23.76	718-1046-2-ND	500	101.00	293D106X0035D2TE3
	D	10	±10%	3.5	6	0.8	0.43	718-1053-1-ND	.44	2.97	23.76	718-1053-2-ND	500	101.00	293D106X9035D2TE3
	D	15	±10%	5.3	6	0.7	0.46	718-1061-1-ND	.54	3.63	29.04	718-1061-2-ND	500	123.50	293D156X9035D2TE3
	D	22	±10%	7.7	6	0.6	0.52	718-1071-1-ND	.54	3.63	29.04	718-1071-2-ND	500	123.50	293D226X9035D2TE3
	E	22	±10%	7.7	6	0.6	0.52	718-1025-1-ND	1.34	9.08	72.60	718-1025-2-ND	400	246.80	293D226X9035E2TE3
50	A	0.10	±10%	0.5	4	19	0.06	718-1110-1-ND	.16	1.10	8.80	718-1110-2-ND	2,000	75.00/M	293D104X9050A2TE3
	C	1	±10%	0.5	4	4.6	0.16	718-1041-1-ND	.37	2.48	19.80	718-1041-2-ND	500	84.00	293D105X9050C2TE3
	D	4.7	±10%	2.4	6	1.2	0.37	718-1085-1-ND	.55	3.71	29.70	718-1085-2-ND	500	126.00	293D475X9050D2TE3
	D	6.8	±10%	3.4	6	0.9	0.41	718-1094-1-ND	.55	3.71	29.70	718-1094-2-ND	500	126.00	293D685X9050D2TE3
	E	10	±10%	5	6	0.8	0.45	718-1022-1-ND	2.05	13.86	110.88	718-1022-2-ND	400	376.80	293D106X9050E2TE3
593D Series															
6.3	D	220	±10%	13.2	8	0.100	1.22	718-1106-1-ND	.73	4.95	39.60	718-1106-2-ND	500	168.50	593D227X96R3D2TE3
	E	330	±10%	19.8	8	0.100	1.28	718-1038-1-ND	1.47	9.90	79.20	718-1038-2-ND	400	269.20	593D337X96R3E2TE3
10	D	100	±20%	10	6	0.100	1.22	718-1100-1-ND	.63	4.26	34.10	718-1100-2-ND	500	145.00	593D107X0010D2TE3
	D	100	±10%	10	6	0.100	1.22	718-1101-1-ND	.63	4.26	34.10	718-1101-2-ND	500	145.00	593D107X9010D2TE3
	D	220	±10%	22	8	0.125	1.10	718-1105-1-ND	1.06	7.15	57.20	718-1105-2-ND	500	243.00	593D227X9010D2TE3
	E	220	±20%	22	8	0.100	1.28	718-1034-1-ND	1.08	7.32	58.52	718-1034-2-ND	400	198.80	593D227X0010E2TE3
	E	220	±10%	22	8	0.100	1.28	718-1035-1-ND	1.08	7.32	58.52	718-1035-2-ND	400	198.80	593D227X9010E2TE3
16	C	10	±10%	1.6	6	0.450	0.49	718-1097-1-ND	.41	2.75	22.00	718-1097-2-ND	500	93.50	593D106X9016C2TE3
	D	47	±10%	7.5	6	0.150	1.00	718-1108-1-ND	.63	4.26	34.10	718-1108-2-ND	500	145.00	593D476X9016D2TE3
	D	100	±10%	16	8	0.125	1.10	718-1102-1-ND	.90	6.05	48.40	718-1102-2-ND	500	205.50	593D107X9016D2TE3
	E	100	±10%	16	8	0.100	1.28	718-1030-1-ND	1.47	9.90	79.20	718-1030-2-ND	400	269.20	593D107X9016E2TE3
20	E	47	±10%	7.5	4	0.150	1.05	718-1039-1-ND	1.47	9.90	79.20	718-1039-2-ND	400	269.20	593D476X9020E2TE3
	E	68	±10%	13.6	6	0.150	1.05	718-1040-1-ND	1.63	11.00	88.00	718-1040-2-ND	400	299.20	593D686X9020E2TE3
	E	100	±10%	20	8	0.150	1.05	718-1031-1-ND	1.63	11.00	88.00	718-1031-2-ND	400	299.20	593D107X9020E2TE3
25	C	10	±10%	2.5	6	0.450	0.49	718-1098-1-ND	.41	2.75	22.00	718-1098-2-ND	500	93.50	593D106X9025C2TE3
	D	22	±10%	5.5	6	0.200	0.87	718-1104-1-ND	.73	4.95	39.60	718-1104-2-ND	500	168.50	593D226X9025D2TE3
	E	33	±20%	8.3	6	0.200	0.91	718-1036-1-ND	1.63	11.00	88.00	718-1036-2-ND	400	299.20	593D336X0025E2TE3
	E	33	±10%	8.3	6	0.200	0.91	718-1037-1-ND	1.63	11.00	88.00	718-1037-2-ND	400	299.20	593D336X9025E2TE3
35	D	10	±10%	3.5	6	0.300	0.71	718-1099-1-ND	.63	4.26	34.10	718-1099-2-ND	500	145.00	593D106X9035D2TE3
	D	15	±10%	5.3	6	0.300	0.71	718-1103-1-ND	.73	4.95	39.60	718-1103-2-ND	500	168.50	593D156X9035D2TE3
	E	22	±20%	7.7	6	0.275	0.77	718-1032-1-ND	1.47	9.90	79.20	718-1032-2-ND	400	269.20	593D226X0035E2TE3
	E	22	±10%	7.7	6	0.275	0.77	718-1033-1-ND	1.47	9.90	79.20	718-1033-2-ND	400	269.20	593D226X9035E2TE3
50	D	4.7	±10%	2.4	6	0.600	0.50	718-1107-1-ND	1.14	7.70	61.60	718-1107-2-ND	500	262.00	593D475X9050D2TE3
	E	10	±10%	5	6	0.550	0.55	718-1029-1-ND	1.87	12.65	101.20	718-1029-2-ND	400	344.00	593D106X9050E2TE3

TANTAMOUNT® Low ESR Solid Tantalum Chip Capacitors — TR3 Series

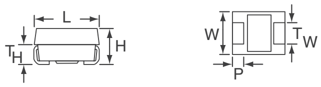

Features: • High ripple current carrying capability • Low ESR • Meets EIA 535BAAE and IEC specification QC300801/US0001 • 100% surge current tested (B, C, D and E case sizes) **Performance/Electrical Characteristics:** • Operating Temperature: -55°C ~ 85°C (Up to 125°C with voltage derating) • Capacitance Tolerance: ±10%

Case Code	EIA Size	Dimensions (mm) L	W	H	P	T_W	T_H (Min.)
A	3216-18	3.2 ± 0.20	1.6 ± 0.20	1.6 ± 0.20	0.80 ± 0.30	1.2 ± 0.10	0.70
B	3528-21	3.5 ± 0.20	2.8 ± 0.20	1.9 ± 0.20	0.80 ± 0.30	2.2 ± 0.10	0.70
C	6032-28	6.0 ± 0.30	3.2 ± 0.30	2.5 ± 0.30	1.3 ± 0.30	2.2 ± 0.10	1.0
D	7343-31	7.3 ± 0.30	4.3 ± 0.30	2.8 ± 0.30	1.3 ± 0.30	2.4 ± 0.10	1.0
E	7343-43	7.3 ± 0.30	4.3 ± 0.30	4.0 ± 0.30	1.3 ± 0.30	2.4 ± 0.10	1.0

Rated Voltage (V)	Case Code	Capacitance (µF)	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Vishay Part No.
4	A	47	1.9	14	0.5	0.39	718-1306-1-ND	.43	2.94	23.48	718-1306-2-ND	2,000	200.00/M	TR3A476K004C0500
	E	680	27.2	12	0.1	1.28	718-1385-1-ND	2.11	14.23	113.86	718-1385-2-ND	400	387.20	TR3E687K004C0100
6.3	A	33	2.0	14	0.6	0.35	718-1305-1-ND	.30	2.06	16.46	718-1305-2-ND	2,000	140.00/M	TR3A336K6R3C0600
	B	68	4.1	6	0.5	0.41	718-1319-1-ND	.44	2.97	23.78	718-1319-2-ND	2,000	202.00/M	TR3B686K6R3C0500
	B	100	6.0	15	0.5	0.41	718-1313-1-ND	.44	2.97	23.78	718-1313-2-ND	2,000	202.00/M	TR3B107K6R3C0500
	D	330	19.8	8	0.125	1.10	718-1356-1-ND	1.03	6.96	55.66	718-1356-2-ND	500	236.50	TR3D337K6R3C0125
	D	330	19.8	8	0.1	1.22	718-1355-1-ND	1.09	7.34	58.70	718-1355-2-ND	500	249.50	TR3D337K6R3C0100
	D	330	19.8	8	0.06	1.58	718-1354-1-ND	1.34	9.05	72.36	718-1354-2-ND	500	307.50	TR3D337K6R3C0060
	D	330	19.8	8	0.045	1.83	718-1353-1-ND	1.80	12.18	97.42	718-1353-2-ND	500	414.00	TR3D337K6R3C0045
	D	330	19.8	8	0.035	2.07	718-1352-1-ND	2.06	13.92	111.32	718-1352-2-ND	500	473.00	TR3D337K6R3C0035
	E	330	19.8	8	0.1	1.28	718-1377-1-ND	1.68	11.39	91.08	718-1377-2-ND	400	309.60	TR3E337K6R3C0100
	E	470	28.2	10	0.1	1.28	718-1383-1-ND	2.11	14.23	113.86	718-1383-2-ND	400	387.20	TR3E477K6R3C0100
	E	470	28.2	10	0.065	1.59	718-1382-1-ND	2.32	15.66	125.24	718-1382-2-ND	400	426.00	TR3E477K6R3C0065
	E	470	28.2	10	0.05	1.82	718-1381-1-ND	3.16	21.35	170.78	718-1381-2-ND	400	580.80	TR3E477K6R3C0050
10	A	10	1.0	6	2.0	0.19	718-1300-1-ND	.30	2.06	16.46	718-1300-2-ND	2,000	140.00/M	TR3A106K010C2000
	A	15	1.5	6	1.0	0.27	718-1302-1-ND	.37	2.47	19.74	718-1302-2-ND	2,000	168.00/M	TR3A156K010C1000
	A	22	2.2	8	1.0	0.27	718-1304-1-ND	.37	2.47	19.74	718-1304-2-ND	2,000	168.00/M	TR3A226K010C1000
	B	22	2.2	6	0.7	0.35	718-1314-1-ND	.40	2.69	21.52	718-1314-2-ND	2,000	183.00/M	TR3B226K010C0700
	B	47	4.7	6	0.5	0.41	718-1318-1-ND	.44	2.97	23.78	718-1318-2-ND	2,000	202.00/M	TR3B476K010C0500
	D	47	4.7	6	0.1	1.22	718-1359-1-ND	.87	5.88	47.06	718-1359-2-ND	500	200.00	TR3D476K010C0100
	C	100	10.0	8	0.2	0.74	718-1325-1-ND	.59	3.96	31.64	718-1325-2-ND	500	134.50	TR3C107K010C0200
	C	100	10.0	8	0.1	1.05	718-1324-1-ND	.65	4.37	34.92	718-1324-2-ND	500	148.50	TR3C107K010C0100
	D	100	10.0	6	0.1	1.22	718-1338-1-ND	.73	4.90	39.22	718-1338-2-ND	500	166.50	TR3D107K010C0100
	D	100	10.0	6	0.08	1.37	718-1337-1-ND	.80	5.41	43.28	718-1337-2-ND	500	184.00	TR3D107K010C0080
	D	100	10.0	6	0.065	1.52	718-1336-1-ND	.91	6.14	49.08	718-1336-2-ND	500	208.50	TR3D107K010C0065
	D	150	15.0	8	0.1	1.22	718-1344-1-ND	1.01	6.83	54.64	718-1344-2-ND	500	232.00	TR3D157K010C0100

(Continued)

Rated Voltage (V)	Case Code	Capacitance (µF)	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
								1	10	100		Qty.	Pricing	
10	D	150	15.0	8	0.075	1.41	718-1343-1-ND	1.52	10.28	82.24	718-1343-2-ND	500	349.50	TR3D157K010C0075
	D	150	15.0	8	0.05	1.73	718-1342-1-ND	1.83	12.34	98.68	718-1342-2-ND	500	419.50	TR3D157K010C0050
	D	220	22.0	8	0.125	1.10	718-1349-1-ND	1.22	8.22	65.78	718-1349-2-ND	500	279.50	TR3D227K010C0125
	D	220	22.0	8	0.1	1.22	718-1348-1-ND	1.34	9.05	72.36	718-1348-2-ND	500	307.50	TR3D227K010C0100
	D	220	22.0	8	0.05	1.73	718-1347-1-ND	2.13	14.39	115.12	718-1347-2-ND	500	489.50	TR3D227K010C0050
	E	220	22.0	8	0.1	1.28	718-1372-1-ND	1.68	11.39	91.08	718-1372-2-ND	400	309.60	TR3E227K010C0100
	E	330	33.0	10	0.1	1.28	718-1376-1-ND	2.06	13.92	111.32	718-1376-2-ND	400	378.40	TR3E337K010C0100
	E	330	33.0	10	0.06	1.66	718-1375-1-ND	2.81	18.98	151.80	718-1375-2-ND	400	516.00	TR3E337K010C0060
16	A	6.8	1.1	6	3.0	0.16	718-1307-1-ND	.30	2.06	16.46	718-1307-2-ND	2,000	140.00/M	TR3A685K016C3000
	A	10	1.6	6	1.7	0.21	718-1301-1-ND	.30	2.06	16.46	718-1301-2-ND	2,000	140.00/M	TR3A106K016C1700
	B	10	1.6	6	0.8	0.33	718-1310-1-ND	.33	2.22	17.72	718-1310-2-ND	2,000	151.00/M	TR3B106K016C0800
	C	10	1.6	6	0.45	0.49	718-1320-1-ND	.47	3.16	25.30	718-1320-2-ND	500	107.50	TR3C106K016C0450
	B	33	5.3	6	0.7	0.35	718-1316-1-ND	.44	2.96	23.68	718-1316-2-ND	2,000	201.00/M	TR3B336K016C0700
	C	33	5.3	6	0.3	0.61	718-1328-1-ND	.59	3.96	31.64	718-1328-2-ND	500	134.50	TR3C336K016C0300
	D	33	5.3	6	0.15	1.00	718-1350-1-ND	.80	5.41	43.28	718-1350-2-ND	500	184.00	TR3D336K016C0150
	C	47	7.5	6	0.3	0.61	718-1332-1-ND	.59	3.96	31.64	718-1332-2-ND	500	134.50	TR3C476K016C0300
	D	47	7.5	6	0.15	1.00	718-1361-1-ND	.73	4.90	39.22	718-1361-2-ND	500	166.50	TR3D476K016C0150
	D	47	7.5	6	0.1	1.22	718-1360-1-ND	.87	5.88	47.06	718-1360-2-ND	500	200.00	TR3D476K016C0100
	D	68	10.9	6	0.15	1.00	718-1365-1-ND	.84	5.69	45.54	718-1365-2-ND	500	193.50	TR3D686K016C0150
	D	100	16.0	8	0.125	1.10	718-1340-1-ND	.93	6.26	50.10	718-1340-2-ND	500	213.00	TR3D107K016C0125
	D	100	16.0	8	0.1	1.22	718-1339-1-ND	1.09	7.34	58.70	718-1339-2-ND	500	249.50	TR3D107K016C0100
	E	100	16.0	8	0.1	1.28	718-1369-1-ND	1.68	11.39	91.08	718-1369-2-ND	400	309.60	TR3E107K016C0100
20	A	6.8	1.4	6	3.2	0.15	718-1308-1-ND	.34	2.28	18.22	718-1308-2-ND	2,000	155.00/M	TR3A685K020C3200
	B	10	2.0	6	1.0	0.29	718-1311-1-ND	.40	2.69	21.52	718-1311-2-ND	2,000	183.00/M	TR3B106K020C1000
	C	10	2.0	6	0.45	0.49	718-1321-1-ND	.53	3.56	28.46	718-1321-2-ND	500	121.00	TR3C106K020C0450
	B	22	4.4	6	0.8	0.33	718-1315-1-ND	.60	4.05	32.38	718-1315-2-ND	2,000	275.00/M	TR3B226K020C0800
	C	22	4.4	6	0.375	0.54	718-1327-1-ND	.63	4.27	34.16	718-1327-2-ND	500	145.00	TR3C226K020C0375
	C	33	6.6	6	0.35	0.56	718-1329-1-ND	.68	4.63	37.00	718-1329-2-ND	500	157.50	TR3C336K020C0350
	D	33	6.6	6	0.2	0.87	718-1351-1-ND	.73	4.90	39.22	718-1351-2-ND	500	166.50	TR3D336K020C0200
	D	47	9.4	6	0.15	1.00	718-1363-1-ND	1.01	6.83	54.64	718-1363-2-ND	500	232.00	TR3D476K020C0150
	D	47	9.4	6	0.1	1.22	718-1362-1-ND	1.47	9.96	79.70	718-1362-2-ND	500	338.50	TR3D476K020C0100
	E	47	7.5	4	0.15	1.05	718-1379-1-ND	1.68	11.39	91.08	718-1379-2-ND	400	309.60	TR3E476K020C0150
	D	68	13.6	6	0.15	1.00	718-1366-1-ND	1.20	8.12	64.94	718-1366-2-ND	500	276.00	TR3D686K020C0150
	E	68	13.6	6	0.15	1.05	718-1384-1-ND	1.87	12.65	101.20	718-1384-2-ND	400	344.00	TR3E686K020C0150
	E	100	20.0	8	0.15	1.05	718-1370-1-ND	2.06	13.92	111.32	718-1370-2-ND	400	378.40	TR3E107K020C0150
25	A	1	0.5	4	4.0	0.14	718-1299-1-ND	.25	1.71	13.66	718-1299-2-ND	2,000	116.00/M	TR3A105K025C4000
	A	2.2	0.6	6	4.0	0.14	718-1303-1-ND	.30	2.06	16.46	718-1303-2-ND	2,000	140.00/M	TR3A225K025C4000
	B	4.7	1.2	6	1.5	0.24	718-1317-1-ND	.40	2.69	21.52	718-1317-2-ND	2,000	183.00/M	TR3B475K025C1500
	C	4.7	1.2	6	0.525	0.46	718-1330-1-ND	.53	3.56	28.46	718-1330-2-ND	500	121.00	TR3C475K025C0525
	B	10	2.5	6	1.1	0.28	718-1312-1-ND	.72	4.87	38.96	718-1312-2-ND	2,000	331.00/M	TR3B106K025C1100
	C	10	2.5	6	0.45	0.49	718-1322-1-ND	.58	3.91	31.30	718-1322-2-ND	500	133.00	TR3C106K025C0450
	C	15	3.8	6	0.425	0.51	718-1326-1-ND	.63	4.27	34.16	718-1326-2-ND	500	145.00	TR3C156K025C0425
	D	22	5.5	6	0.2	0.87	718-1345-1-ND	.84	5.69	45.54	718-1345-2-ND	500	193.50	TR3D226K025C0200
	E	33	8.3	6	0.2	0.91	718-1374-1-ND	1.87	12.65	101.20	718-1374-2-ND	400	344.00	TR3E336K025C0200
	E	33	6.6	4	0.175	0.97	718-1373-1-ND	2.06	13.92	111.32	718-1373-2-ND	400	378.40	TR3E336K025C0175
	E	47	11.8	6	0.2	0.91	718-1380-1-ND	1.87	12.65	101.20	718-1380-2-ND	400	344.00	TR3E476K025C0200
35	C	4.7	1.6	6	0.5	0.47	718-1331-1-ND	.59	3.96	31.64	718-1331-2-ND	500	134.50	TR3C475K035C0500
	C	10	3.5	6	0.45	0.49	718-1323-1-ND	.63	4.27	34.16	718-1323-2-ND	500	145.00	TR3C106K035C0450
	D	10	3.5	6	0.3	0.71	718-1334-1-ND	.73	4.90	39.22	718-1334-2-ND	500	166.50	TR3D106K035C0300
	D	10	3.5	6	0.25	0.77	718-1333-1-ND	.80	5.41	43.28	718-1333-2-ND	500	184.00	TR3D106K035C0250
	D	15	5.3	6	0.3	0.71	718-1341-1-ND	.84	5.69	45.54	718-1341-2-ND	500	193.50	TR3D156K035C0300
	D	22	7.7	6	0.3	0.71	718-1346-1-ND	1.02	6.89	55.12	718-1346-2-ND	500	234.50	TR3D226K035C0300
	E	22	7.7	6	0.275	0.77	718-1371-1-ND	1.68	11.39	91.08	718-1371-2-ND	400	309.60	TR3E226K035C0275
50	B	1	0.5	4	2.0	0.21	718-1309-1-ND	.78	5.30	42.38	718-1309-2-ND	2,000	360.00/M	TR3B105K050C2000
	D	4.7	2.4	6	0.6	0.5	718-1358-1-ND	1.44	9.74	77.92	718-1358-2-ND	500	331.00	TR3D475K050C0600
	D	4.7	2.4	6	0.3	0.71	718-1357-1-ND	2.16	14.61	116.88	718-1357-2-ND	500	496.50	TR3D475K050C0300
	E	4.7	1.9	4	0.3	0.74	718-1378-1-ND	3.36	22.73	181.86	718-1378-2-ND	400	618.40	TR3E475K050C0300
	D	6.8	3.4	6	0.5	0.55	718-1364-1-ND	1.81	12.25	97.96	718-1364-2-ND	500	416.50	TR3D685K050C0500
	D	10	5.0	6	0.55	0.52	718-1335-1-ND	1.98	13.36	106.88	718-1335-2-ND	500	454.00	TR3D106K050C0550
	E	10	5.0	6	0.55	0.55	718-1368-1-ND	2.96	20.00	160.02	718-1368-2-ND	400	544.00	TR3E106K050C0550
	E	10	5.0	6	0.4	0.64	718-1367-1-ND	3.58	24.21	193.64	718-1367-2-ND	400	658.40	TR3E106K050C0400

TANTAMOUNT® High Temperature Solid Tantalum Chip Capacitors — TH3 Series

Performance/Electrical Characteristics: • Operating Temperature: -55°C ~ 150°C **Capacitance Tolerance:** • ±10%
Features: • Operating temperature up to 150°C with 50% voltage derating • High reliability • RoHS compliant matte tin terminations • 100% Surge current tested (B, C, D and E case sizes)

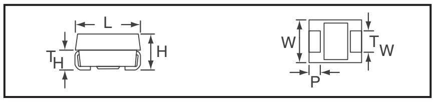

Case Code	EIA Size	Dimensions (mm)					
		L	W	H	P	T_W	T_H (Min.)
A	3216-18	3.2 ±0.20	1.6 ±0.20	1.6 ±0.20	0.80 ±0.30	1.2 ±0.10	0.70
B	3528-21	3.5 ±0.20	2.8 ±0.20	1.9 ±0.20	0.80 ±0.30	2.2 ±0.10	0.70
C	6032-28	6.0 ±0.30	3.2 ±0.30	2.5 ±0.30	1.3 ±0.30	2.2 ±0.10	1.0
D	7343-31	7.3 ±0.30	4.3 ±0.30	2.8 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0
E	7343-43	7.3 ±0.30	4.3 ±0.30	4.0 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0

Rated Voltage (V)	Case Code	Capacitance (µF)	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
								1	10	100		Qty.	Pricing	
16	A	3.3	0.5	6	5.0	0.12	718-1267-1-ND	.28	1.88	15.00	718-1267-2-ND	2,000	128.00/M	TH3A335K016C
	D	47	7.5	6	0.7	0.46	718-1271-1-ND	.91	6.13	49.00	718-1271-2-ND	500	208.50	TH3D476K016C
	E	100	16.0	8	0.6	0.52	718-1274-1-ND	1.16	7.81	62.50	718-1274-2-ND	400	212.40	TH3E107K016C
25	B	2.2	0.6	6	3.8	0.15	718-1268-1-ND	.32	2.19	17.50	718-1268-2-ND	2,000	149.00/M	TH3B225K025C
	C	10	2.5	6	1.5	0.27	718-1270-1-ND	.51	3.44	27.50	718-1270-2-ND	500	117.00	TH3C106K025C
	D	33	8.3	6	0.7	0.46	718-1272-1-ND	.98	6.63	53.00	718-1272-2-ND	500	225.50	TH3D336K025C
35	B	1	0.5	4	5.0	0.13	718-1269-1-ND	.32	2.19	17.50	718-1269-2-ND	2,000	149.00/M	TH3B105K035C
	D	10	3.5	6	0.8	0.43	718-1273-1-ND	.94	6.38	51.00	718-1273-2-ND	500	217.00	TH3D106K035C
	E	22	7.7	6	0.6	0.52	718-1275-1-ND	1.28	8.63	69.00	718-1275-2-ND	400	234.80	TH3E226K035C

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

VISHAY. Sprague

TANTAMOUNT® Solid Tantalum Chip Capacitors with Miniature Built-In-Fuse — 893D Series

RoHS COMPLIANT

Performance/Electrical Characteristics: • Operating Temperature: -55°C ~ 125°C **Capacitance Tolerance:** • ±10% **Features:** • Electrically activated internal fuse • Meets EIA 535BAAC and IEC specification QC300801/US0001 • 100% Surge current tested (D and E case codes) • **Fuse activation at 25°C: 0.1 second maximum with 5 amps minimum applied current**

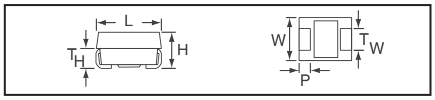

Case Code	EIA Size	Dimensions (mm)					
		L	W	H	P	T_W	T_H (Min.)
C	6032-28	6.0 ±0.30	3.2 ±0.30	2.5 ±0.30	1.3 ±0.30	2.2 ±0.10	1.0
D	7343-31	7.3 ±0.30	4.3 ±0.30	2.8 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0
E	7343-43	7.3 ±0.30	4.3 ±0.30	4.0 ±0.30	1.3 ±0.30	2.4 ±0.10	1.0

Rated Voltage (V)	Case Code	Capacitance (µF)	Max. DC Leakage @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
								1	10	100		Qty.	Pricing	
10	C	22	2.2	6	1.4	0.28	718-1286-1-ND	2.00	13.50	108.00	718-1286-2-ND	500	459.00	893D226X9010C2TE3
	D	47	4.7	6	0.7	0.46	718-1294-1-ND	3.52	23.75	190.00	718-1294-2-ND	500	807.50	893D476X9010D2TE3
	D	100	10	8	0.6	0.50	718-1281-1-ND	4.29	28.98	231.80	718-1281-2-ND	500	985.00	893D107X9010D2TE3
	E	150	15	8	0.5	0.57	718-1285-1-ND	8.14	55.00	440.00	718-1285-2-ND	400	1496.00	893D157X9010E2TE3
	E	220	22	8	0.5	0.57	718-1290-1-ND	8.14	55.00	440.00	718-1290-2-ND	400	1496.00	893D227X9010E2TE3
16	C	10	1.6	6	1.8	0.25	718-1277-1-ND	2.00	13.50	108.00	718-1277-2-ND	500	459.00	893D106X9016C2TE3
	D	33	5.3	6	0.7	0.46	718-1291-1-ND	3.52	23.75	190.00	718-1291-2-ND	500	807.50	893D336X9016D2TE3
	D	47	7.5	6	0.7	0.46	718-1295-1-ND	3.52	23.75	190.00	718-1295-2-ND	500	807.50	893D476X9016D2TE3
	E	100	16	8	0.6	0.52	718-1282-1-ND	8.14	55.00	440.00	718-1282-2-ND	400	1496.00	893D107X9016E2TE3
20	C	10	2.0	6	1.6	0.26	718-1278-1-ND	2.00	13.50	108.00	718-1278-2-ND	500	459.00	893D106X9020C2TE3
	D	22	4.4	6	0.7	0.46	718-1287-1-ND	3.52	23.75	190.00	718-1287-2-ND	500	807.50	893D226X9020D2TE3
	E	68	13.6	6	0.6	0.52	718-1298-1-ND	8.14	55.00	440.00	718-1298-2-ND	400	1496.00	893D686X9020E2TE3
25	C	4.7	1.2	6	1.9	0.24	718-1292-1-ND	2.00	13.50	108.00	718-1292-2-ND	500	459.00	893D475X9025C2TE3
	D	10	2.5	6	1.0	0.39	718-1279-1-ND	3.52	23.75	190.00	718-1279-2-ND	500	807.50	893D106X9025D2TE3
	D	15	3.8	6	0.8	0.43	718-1283-1-ND	3.52	23.75	190.00	718-1283-2-ND	500	807.50	893D156X9025D2TE3
	E	22	5.5	6	0.7	0.49	718-1288-1-ND	8.14	55.00	440.00	718-1288-2-ND	400	1496.00	893D226X9025E2TE3
35	D	6.8	2.4	6	1.0	0.38	718-1296-1-ND	3.52	23.75	190.00	718-1296-2-ND	500	807.50	893D685X9035D2TE3
	D	10	3.5	6	0.8	0.43	718-1280-1-ND	3.52	23.75	190.00	718-1280-2-ND	500	807.50	893D106X9035D2TE3
	E	15	5.3	6	0.7	0.49	718-1284-1-ND	8.14	55.00	440.00	718-1284-2-ND	400	1496.00	893D156X9035E2TE3
	E	22	7.7	6	0.6	0.52	718-1289-1-ND	8.14	55.00	440.00	718-1289-2-ND	400	1496.00	893D226X9035E2TE3
50	C	1.0	0.5	4	4.4	1.60	718-1276-1-ND	2.50	16.88	135.00	718-1276-2-ND	500	574.00	893D105X9050C2TE3
	D	4.7	2.4	6	1.1	0.37	718-1293-1-ND	4.40	29.70	237.60	718-1293-2-ND	500	1010.00	893D475X9050D2TE3
	E	6.8	3.4	6	0.9	0.43	718-1297-1-ND	10.18	68.75	550.00	718-1297-2-ND	400	1870.00	893D685X9050E2TE3

TANTAMOUNT® Maximum CV Conformal Coated Solid Tantalum Chip Capacitors — 594D and 595D Series

RoHS COMPLIANT

594D Series:
Performance/Electrical Characteristics: • Operating Temperature: -55°C ~ 85°C (To 125°C with voltage derating) **Features:** • Large capacitance rating range • Lowest ESR for a surface mount tantalum chip capacitor • Case code compatibility with EIA 535BAAE and CECC30801 molded chips • 100% surge current conditioning for C, D and R cases

595D Series:
Performance/Electrical characteristics: • Operating Temperature: -55°C ~ 85°C (To 125°C with voltage derating)
Features: • Large capacitance rating range • Case code compatibility with EIA 535BAAC and CECC30801 molded chips

Dimensions (mm)							
Case Code	L (Max.)	W	H	A	B	D (Ref.)	J (Max.)
A	3.7	1.8 ±0.3	1.4 ±0.3	0.80 ±0.30	2.2 ±0.4	2.9	0.1
C	7.1	3.2 ±0.3	2.5 ±0.3	1.3 ±0.30	4.6 ±0.6	6.0	0.1
D	7.5	4.3 ±0.3	2.8 ±0.3	1.3 ±0.30	4.6 ±0.6	6.4	0.1
R	7.2	6.0 ±0.3	3.5 ±0.3	1.3 ±0.30	4.6 ±0.6	6.2	0.1

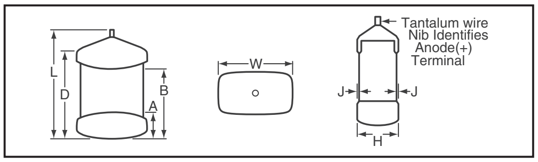

Tantalum wire Nib Identifies Anode(+) Terminal

Rated Voltage (V)	Case Code	Capacitance (µF)	Capacitance Tolerance	Max. DLC @ 25°C (µA)	Max. DF @ 25°C 120Hz (%)	Max. ESR @ 25°C 100kHz (Ω)	Max. Ripple 100kHz Irms (A)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
									1	10	100		Qty.	Pricing	
594D Series (Low ESR)															
6.3	R	1000	±20%	63	16	0.030	2.89	718-1006-1-ND	8.43	56.94	455.50	718-1006-2-ND	600	2049.60	594D108X06R3R2T
10	C	68	±20%	6.8	6	0.100	1.05	718-1004-1-ND	2.02	13.65	109.20	718-1004-2-ND	500	409.50	594D686X0010C2T
10	R	330	±20%	33	8	0.045	2.36	718-1012-1-ND	6.41	43.34	346.72	718-1012-2-ND	600	1560.00	594D337X0010R2T
16	C	47	±20%	7.5	6	0.110	1.00	718-1002-1-ND	2.02	13.65	109.20	718-1002-2-ND	500	409.50	594D476X0016C2T
16	C	100	±10%	16	8	0.080	1.17	718-1000-1-ND	2.44	16.49	131.88	718-1000-2-ND	500	494.50	594D107X9016C2T
16	D	100	±10%	16	8	0.075	1.41	718-1001-1-ND	2.86	19.35	154.78	718-1001-2-ND	500	580.50	594D107X9016D2T
16	R	180	±20%	28.8	8	0.055	2.13	718-1010-1-ND	6.41	43.34	346.72	718-1010-2-ND	600	1560.00	594D187X0016R2T
20	D	47	±20%	9.4	6	0.095	1.26	718-1003-1-ND	2.86	19.35	154.78	718-1003-2-ND	500	580.50	594D476X0020D2T
20	R	120	±20%	24	8	0.080	1.77	718-1007-1-ND	6.41	43.34	346.72	718-1007-2-ND	600	1560.00	594D127X0020R2T
35	R	33	±20%	11.6	6	0.20	1.12	718-1011-1-ND	6.41	43.34	346.72	718-1011-2-ND	600	1560.00	594D336X0035R2T
50	R	15	±20%	7.5	6	0.35	0.85	718-1008-1-ND	7.06	47.67	381.36	718-1008-2-ND	600	1716.00	594D156X0050R2T
50	R	15	±10%	7.5	6	0.35	0.85	718-1009-1-ND	7.06	47.67	381.36	718-1009-2-ND	600	1716.00	594D156X9050R2T
595D Series															
10	A	15	±20%	1.5	6	1.8	0.20	718-1021-1-ND	1.03	6.98	55.86	718-1021-2-ND	2,000	419.00/M	595D106X0010A2T
10	R	330	±20%	33	8	0.13	1.39	718-1019-1-ND	5.14	34.70	277.62	718-1019-2-ND	600	1249.20	595D337X0010R2T
16	C	100	±20%	16	8	0.14	1.04	718-1005-1-ND	2.58	17.43	139.44	718-1005-2-ND	500	523.00	595D107C0016D2T
25	R	68	±20%	17	6	0.20	1.12	718-1020-1-ND	5.14	34.70	277.62	718-1020-2-ND	600	1249.20	595D686X0025R2T
25	R	100	±20%	25	8	0.20	1.12	718-1013-1-ND	6.17	41.71	333.70	718-1013-2-ND	600	1501.80	595D107X0025R2T
25	R	100	±10%	25	8	0.20	1.12	718-1014-1-ND	6.17	41.71	333.70	718-1014-2-ND	600	1501.80	595D107X9025R2T
35	R	33	±20%	11.6	6	0.28	0.94	718-1018-1-ND	5.14	34.70	277.62	718-1018-2-ND	600	1249.20	595D336X0035R2T
50	R	15	±20%	7.5	6	0.40	0.79	718-1015-1-ND	5.65	38.20	305.56	718-1015-2-ND	600	1375.20	595D156X0050R2T
50	R	22	±20%	11	6	0.39	0.80	718-1016-1-ND	6.79	45.89	367.08	718-1016-2-ND	600	1651.80	595D226X0050R2T
50	R	22	±10%	11	6	0.39	0.80	718-1017-1-ND	6.79	45.89	367.08	718-1017-2-ND	600	1651.80	595D226X9050R2T

VISHAY Sprague

NEW! TANTAMOUNT® Maximum CV Ultra-Low ESR Conformal Coated Solid Tantalum Chip Capacitors – 597D Series

RoHS COMPLIANT

Digi-Reel®

Features: • Terminations: Tin • High ripple current • Low profile case sizes • Extremely low ESR **Performance Characteristics:** • Operating Temperature: -55°C ~ 85°C (To 125°C with voltage derating) • Capacitance Tolerance: ±10%

Case Code	Dimensions (mm)						
	L	W	H	A	B	D (Ref.)	J (Max.)
E	7.3 ±0.3	4.4 ±0.4	4.0 ±0.4	1.3 ±0.3	4.6 ±0.6	6.4	0.1
F	7.3 ±0.3	6.0 ±0.4	4.7 ±0.4	1.3 ±0.3	4.6 ±0.6	6.2	0.1
R	7.3 ±0.3	6.0 +0.4/-0.6	3.6 ±0.4	1.3 ±0.3	4.6 ±0.6	6.2	0.1
V	7.3 ±0.3	4.4 ±0.4	2.0 Max.	1.3 ±0.3	4.6 ±0.6	6.4	0.1
Z	7.3 ±0.3	6.0 ±0.4	6.0±0.4	1.3 ±0.3	4.6 ±0.6	6.2	0.1

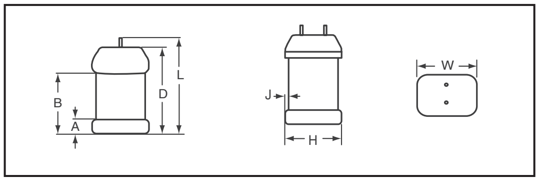

Rated Voltage (VDC)	Case Code	Capacitance(µF)	Max. DCL @25°C (µA)	Max. DF @25°C 120Hz	Max. ESR @25°C 100kHz (mΩ)	Max. Ripple 100kHz IRMS (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
4	V	470	19	8	30	2.2	718-1398-1-ND	2.91	1.89	1.46	718-1398-2-ND	1,000	1090.00	597D477X9004V2T
	E	680	27	6	25	2.9	718-1388-1-ND	6.51	4.24	3.26	718-1388-2-ND	500	1220.50	597D687X9004E2T
	E	1000	40	8	20	3.3	718-1389-1-ND	6.51	4.24	3.26	718-1389-2-ND	500	1220.50	597D108X9004E2T
	R	1000	40	8	18	3.7	718-1390-1-ND	6.80	4.43	3.41	718-1390-2-ND	600	1531.20	597D108X9004R2T
	R	1500	60	8	15	4.1	718-1392-1-ND	7.14	4.65	3.57	718-1392-2-ND	600	1606.80	597D158X9004R2T
6.3	V	330	21	8	35	2.0	718-1397-1-ND	2.91	1.89	1.46	718-1397-2-ND	1,000	1090.00	597D337X96R3V2T
	E	470	30	6	30	2.7	718-1400-1-ND	6.38	4.15	3.20	718-1400-2-ND	500	1197.00	597D477X96R3E2T
	E	680	43	6	25	2.9	718-1402-1-ND	6.51	4.24	3.26	718-1402-2-ND	500	1220.50	597D687X96R3E2T
	R	1000	63	8	20	3.5	718-1391-1-ND	7.14	4.65	3.57	718-1391-2-ND	600	1606.80	597D108X96R3R2T
10	E	330	33	6	35	2.5	718-1396-1-ND	6.55	4.26	3.28	718-1396-2-ND	500	1228.50	597D337X9010E2T
	E	470	47	6	28	2.8	718-1399-1-ND	6.80	4.43	3.41	718-1399-2-ND	500	1276.00	597D477X9010E2T
	R	680	68	6	28	2.9	718-1401-1-ND	7.14	4.65	3.57	718-1401-2-ND	300	803.40	597D687X9010R2T
16	E	220	35	8	40	2.3	718-1394-1-ND	6.50	4.23	3.25	718-1394-2-ND	500	1219.00	597D227X9016E2T
25	R	68	17	6	100	1.6	718-1387-1-ND	7.88	5.13	3.94	718-1387-2-ND	300	886.50	597D686X9025R2T
50	E	15	8	6	300	0.8	718-1409-1-ND	8.40	5.46	4.20	718-1409-2-ND	500	1575.00	597D156X9050E2T
	R	15	8	6	250	1.0	718-1410-1-ND	8.40	5.46	4.20	718-1410-2-ND	300	945.00	597D156X9050R2T
	R	22	11	6	170	0.8	718-1393-1-ND	8.80	5.72	4.40	718-1393-2-ND	600	1848.00	597D226X9050R2T
	F	33	17	6	150	0.8	718-1395-1-ND	11.55	7.51	5.78	718-1395-2-ND	300	1299.30	597D336X9050F2T
	Z	47	24	6	145	1.1	718-1408-1-ND	12.20	7.93	6.10	718-1408-2-ND	250	1143.75	597D476X9050Z2T
63	F	22	14	6	200	0.9	718-1407-1-ND	12.44	8.09	6.22	718-1407-2-ND	300	1399.50	597D226X9063F2T

NEW! TANTAMOUNT® Maximum CV Low Profile Conformal Coated Solid Tantalum Chip Capacitors – 592D Series

Digi-Reel®

RoHS COMPLIANT

Features: • Robust 6.3V ratings for battery operated wireless applications • 2.0mm low profile height • Case code compatible with EIA 535BAAC and CECC 30801 molded chips • X case size can be used to replace several capacitors with lower ratings, resulting in cost reduction • Very low ESR limits **Applications:** • Telecommunications • Computing • PCMCIA cards **Performance Characteristics:** • Operating Temperature: -55°C ~ 85°C (To 125°C with voltage derating)

Case Code	Dimensions (mm)						
	L (Max.)	W	H	A	B	D (Ref.)	J (Max.)
R	7.2	6.0 +0.3/-0.6	2.0 Max.	1.3 ±0.3	4.6 ±0.6	6.2	0.1
X	14.5	7.37 +0.25/-0.5	2.0 Max.	1.3 ±0.4	11.9 ±0.6	13.2	0.1

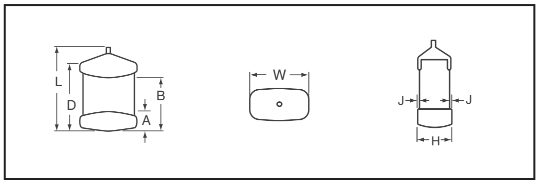

Capacitance (µF)	Tolerance	Case Code	Max. DCL @25°C (µA)	Max. DF @25°C 120Hz	Max. ESR @25°C 100kHz (mΩ)	Max. Ripple 100kHz IRMS (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
1000	±10%	R	63	20	200	0.94	718-1406-1-ND	4.12	2.68	2.06	718-1406-2-ND	1,000	1544.00	592D108X96R3R2T20H
1000	±10%	X	63	16	40	2.1	718-1405-1-ND	8.19	5.33	4.10	718-1405-2-ND	500	1535.50	592D108X96R3X2T20H
1500	±20%	R	95	33	120	1.21	718-1386-1-ND	5.56	3.62	2.78	718-1386-2-ND	1,000	2085.00	592D158X06R3R2T20H
1500	±10%	X	95	25	45	1.97	718-1404-1-ND	8.19	5.33	4.10	718-1404-2-ND	500	1535.50	592D158X96R3X2T20H
2200	±10%	X	139	35	55	1.8	718-1403-1-ND	8.19	5.33	4.10	718-1403-2-ND	500	1535.50	592D228X96R3X2T20H

TANTALEX® Elastomer Sealed Wet Tantalum Capacitors with Sintered Anode

for operations to 125°C — 109D Series

Model 109D TANTALEX capacitors fill the basic requirements for applications where a superior quality, reliable design for industrial, automotive, and telecommunications application is desired.

They are the commercial equivalents of Tansitor Style WC, UWC, Mallory-NACC Style TLS, TLH and the Military Style CL64 and CL65. They are designed to meet the performance requirements of military specification MIL-DTL-3965.

Features: Outer plastic film insulation

Performance Characteristics:

- Operating Temperature: -55°C ~ 85°C (Up to 125°C with voltage derating)
- Capacitance Tolerance: ±10%

Code	Dimensions (mm)		
	With Plastic-Film Case Insulating Sleeve		Lead Length
	D (Max.)	L (Max.)	
C	5.56	15.45	38.10 ±6.35
F	7.92	20.22	57.15 ±6.35
T	10.31	23.40	57.15 ±6.35
K	10.31	30.91	57.15 ±6.35

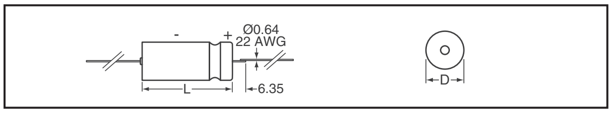

Case Code	Capacitance (µF)	Max. ESR @ 25°C 120Hz (Ω)	Max. IMP. @ -55°C 120Hz (Ω)	Max. DCL (µA) @ 25°C	Max. DCL (µA) @ 85°C 125°C	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
					25 Volt @ 85°C (15 Volt @ 125°C)					
F	270	2.7	33	3	16	718-1229-ND	26.76	20.74	18.74	109D277X9025F2
T	560	1.8	24	7	28	718-1225-ND	33.72	26.14	23.61	109D567X9025T2
					50 Volt @ 85°C (30 Volt @ 125°C)					
C	33	5	135	2	9	718-1231-ND	22.64	17.55	15.85	109D336X9050C2
F	47	6	70	1	9	718-1232-ND	21.38	16.57	14.97	109D476X9050F2
F	120	2.5	49	4	24	718-1227-ND	26.76	20.74	18.74	109D127X9050F2
T	270	1.8	29	8	32	718-1230-ND	33.72	26.14	23.61	109D227X9050T2
					60 Volt @ 85°C (40 Volt @ 125°C)					
F	100	2.5	54	4	20	718-1226-ND	26.76	20.74	18.74	109D107X9060F2
K	270	1.5	23	9	36	718-1223-ND	46.60	36.12	32.62	109D277X9060K2
					75 Volt @ 85°C (50 Volt @ 125°C)					
C	22	5	157	3	12	718-1228-ND	22.64	17.55	15.85	109D226X9075C2
F	56	3	70	4	24	718-1224-ND	27.00	20.93	18.90	109D566X9075F2
F	82	2.5	63	4	24	718-1233-ND	26.76	20.74	18.74	109D826X9075F2
T	180	1.8	30	9	36	718-1222-ND	33.72	26.14	23.61	109D187X9075T2

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Wet Tantalum Capacitors with Tantalum Case and Glass-to-Tantalum Hermetic Seal for -55°C ~ 200°C operations — 135D Series

Model 135D tantalum-case tantalum electrolytic capacitors incorporate the advantages of all the varieties of electrolytic capacitors and eliminate most of the disadvantages. These units have a 3 volt reverse voltage capability at 85°C and a higher ripple current capability than any other electrolytic type with similar combinations of capacitance and case size. They also have a high resistance to damage from shock and vibration. These capacitors are commercial equivalents of Tansitor Style; AQ, AR, HAQ, HAR, Mallory-NACC Style; TLT, TXT, THT, THX and Military Style CLR79 and CLR81, designed to meet the performance requirements of military specification MIL-PRF-39006/22/25.

Performance Characteristics: • Operating Temperature: -55°C ~ 85°C (Up to 200°C with voltage derating)

Capacitance Tolerance: ±10%

Physical Characteristics: Tinned nickel leads (solderable and weldable)

Case Code		Dimensions (mm)				
Type 135D	DCLR 79/81 Equivalent	D	L1	L2 (Max.)	E	Weight In Grams (Max.)
C	T1	5.16 ±0.41	11.51 + 0.79 - 0.41	18.64	38.10 ±6.35	2.6
F	T2	7.52 ±0.41	16.28 + 0.79 - 0.41	23.42	57.15 ±6.35	6.2
K	T4	9.91 ±0.41	26.97 + 0.79 - 0.41	34.11	57.15 ±6.35	17.7

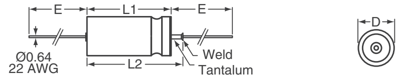

Case Code	Capacitance (µF)	Max. ESR @ 25°C 120Hz (Ω)	Max. IMP. @ -55°C 120Hz (Ω)	Max. DCL (µA) @		Max. Ripple 40kHz rms (mA)	Digi-Key Part No.	Price Each			Vishay Part No.
				25°C	85°C 125°C			1	10	100	
Polyesterfilm Insulation											
30 Volt @ 85°C (18 Volt @ 200°C)											
K	560	1.3	20	9	36	2000	718-1252-ND	63.05	52.55	46.42	135D567X9030K2
50 Volt @ 85°C (30 Volt @ 200°C)											
F	120	2.5	49	4	24	1200	718-1257-ND	39.44	32.87	29.04	135D127X9050F2
K	330	1.5	30	9	36	1900	718-1250-ND	63.05	52.55	46.42	135D337X9050K2
75 Volt @ 85°C (45 Volt @ 200°C)											
C	22	5.1	157	3	12	600	718-1259-ND	29.68	24.74	21.85	135D226X9075C2
F	33	4.2	90	1.0	10.0	1000	718-1264-ND	35.48	29.57	26.12	135D336X9075F2
K	220	1.8	24	10	40	1800	718-1248-ND	63.05	52.55	46.42	135D227X9075K2
125 Volt @ 85°C (75 Volt @ 200°C)											
C	1.7	15.6	1250	1.0	2.0	415	718-1258-ND	26.59	22.16	19.58	135D175X9125C2
K	82	2.8	32	12	48	1900	718-1253-ND	63.05	52.55	46.42	135D826X9125K2
High Temperature Film Insulation											
25 Volt @ 85°C (12 Volt @ 200°C)											
C	68	4.3	90	2	9	850	718-1265-ND	29.86	24.89	21.99	135D686X9025C6
F	270	2.7	33	3	16	1400	718-1263-ND	39.62	33.02	29.17	135D277X9025F6
50 Volt @ 85°C (30 Volt @ 200°C)											
C	10	6.4	250	1.0	2.0	715	718-1255-ND	26.77	22.31	19.71	135D106X9050C6
F	25	4.6	95	1.0	5.0	1005	718-1262-ND	35.66	29.72	26.25	135D256X9050F6
K	330	1.5	30	9	36	1900	718-1251-ND	63.23	52.70	46.55	135D337X9050K6
60 Volt @ 85°C (36 Volt @ 200°C)											
F	100	2.5	54	4	20	1100	718-1256-ND	39.62	33.02	29.17	135D107X9060F6
75 Volt @ 85°C (45 Volt @ 200°C)											
C	22	5.1	157	3	12	600	718-1260-ND	29.86	24.89	21.99	135D226X9075C6
F	82	2.5	63	4	24	1000	718-1266-ND	39.62	33.02	29.17	135D826X9075F6
K	220	1.8	24	10	40	1800	718-1249-ND	63.23	52.70	46.55	135D227X9075K6
100 Volt @ 85°C (60 Volt @ 200°C)											
F	22	4.8	100	1.0	9.0	965	718-1261-ND	35.66	29.72	26.25	135D226X9100F6
125 Volt @ 85°C (75 Volt @ 200°C)											
K	82	2.8	32	12	48	1900	718-1254-ND	63.23	52.70	46.55	135D826X9125K6

HI TMP® Wet Tantalum Capacitors with Tantalum Case and Glass-to-Tantalum Hermetic Seal for -55°C ~ 200°C operations — 134D Series

The 134D HI TMP represents a major breakthrough in wet tantalum capacitor technology for high temperature (200°C) applications such as that seen in the petroleum exploration industry. Its unique design provides for the highest capacitance per unit volume. The design facilitates a doubling of capacitance when compared with conventional wet tantalum products. The 134D is housed in all tantalum, hermetically sealed case and is manufactured to withstand high stress and hazardous environments. **Performance Characteristics:** • Operating Temperature: -55°C ~ 85°C (Up to 200°C with voltage derating) • Capacitance Tolerance: ±10% **Physical Characteristics:** • Weight (maximum): 17.7 grams • High temperature film insulation • Tinned nickel leads (solderable and weldable)

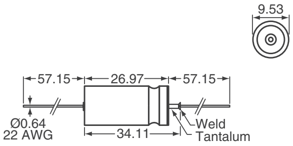

Capacitance @25°C 120Hz	Max. ESR 120Hz (Ω)	Max. DCL (µA) @		Typical IMP, Z @ -55°C Ω	AC Ripple 85°C 40kHz mA rms	Digi-Key Part No.	Price Each			Vishay Part No.
		25°C	85°C 125°C				1	10	100	
50 Volt @ 85°C (30 Volt @ 200°C)										
680	0.70	5	40	5	2900	718-1245-ND	114.31	97.98	86.55	134D687X9050K6
60 Volt @85°C (36 Volt @ 200°C)										
560	0.80	5	40	6	2700	718-1244-ND	114.31	97.98	86.55	134D567X9060K6
75 Volt @ 85°C (45 Volt @ 200°C)										
470	0.90	5	50	7	2550	718-1243-ND	114.31	97.98	86.55	134D477X9075K6
100 Volt @ 85°C (60 Volt @ 200°C)										
220	1.20	5	50	16	2200	718-1247-ND	114.31	97.98	86.55	134D227X9100K6
125 Volt @ 85°C (75 Volt @ 200°C)										
150	1.60	5	50	16	1900	718-1246-ND	114.31	97.98	86.55	134D157X9125K6

SuperTan® Wet Tantalum Capacitors with Hermetic Seal – ST Series

Vishay ST represents a major breakthrough in wet tantalum capacitor technology. Its unique cathode system provides the highest capacitance per unit volume. The design facilitates a doubling of capacitance, lower ESR and higher ripple current rating compared with conventional wet tantalum products. Moreover, the ST has the capacitance stability of a solid tantalum capacitor and there are no circuit impedance restrictions. The ST is housed in an all tantalum, hermetically sealed case and is manufactured to withstand hazardous environments. The ST is used widely in the defense and aerospace industries and whenever there is a space problem.

Features: • Very High Capacitance • Very Low ESR • High Ripple Current • Low DCL

Performance Characteristics: • Operating Temperature: -55°C ~ 125°C **Physical Characteristics:** • All Tantalum Case • Hermetically Sealed • Insulated • Tinned nickel leads (solderable and weldable)

Case Code	Dimensions (mm)			
	D Max.	L + 0.79	E ± 6.35 Max.	Approximate Weight (grams)
T2	7.92	16.28	57.15	5.7
T3	10.31	19.46	57.15	9.4
T4	10.31	26.97	57.15	14.8

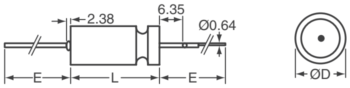

Capacitance @ 25°C 120Hz (µF)	Case Code	Max. ESR 120Hz (Ω)	Max. DCL (µA)		Max. IMP. @ -55°C 120Hz (Ω)	AC Ripple 85°C 40kHz mA rms	Digi-Key Part No.	Price Each			Vishay Part No.
			25°C	85°C 125°C				1	10	100	
30 Volt @ 85°C (20 Volt @ 125°C)											
470	T2	0.85	2	10	15	1800	718-1242-ND	60.87	52.17	46.09	ST470-30T2KI
50 Volt @ 85°C (30 Volt @ 125°C)											
220	T2	0.9	2	10	17.5	1800	718-1241-ND	60.87	52.17	46.09	ST220-50T2KI
680	T4	0.7	5	40	8	2750	718-1239-ND	102.78	88.10	77.82	ST680-50T4KI
60 Volt @ 85°C (40 Volt @ 125°C)											
150	T2	1.1	2	10	20	1800	718-1240-ND	60.87	52.17	46.09	ST150-60T2KI
560	T4	0.8	5	40	10	2750	718-1238-ND	102.78	88.10	77.82	ST560-60T4KI
75 Volt @ 85°C (50 Volt @ 125°C)											
330	T3	1.0	3	30	12	2100	718-1236-ND	79.38	68.04	60.11	ST330-75T3KI
470	T4	0.9	5	50	12	2750	718-1237-ND	102.78	88.10	77.82	ST470-75T4KI
100 Volt @ 85°C (65 Volt @ 125°C)											
220	T4	1.2	5	50	15	2750	718-1235-ND	102.78	88.10	77.82	ST220-100T4KI
125 Volt @ 85°C (85 Volt @ 125°C)											
150	T4	1.6	5	50	20	2750	718-1234-ND	102.78	88.10	77.82	ST150-125T4KI

Panasonic® B-Series Polyester Capacitors

PANASONIC ECQ-B CROSS REFERENCE: Sprague: 225P, 418P; **Mepco:** 713D1, 711D1, 719D1; **TRW:** 601PE, 601CPE; **Packtron:** PE, FM; **Secor:** MFDW, MFDR; **Roederstein:** KT1805, KT1806, KT1807, KT1898; **Wima:** FKS; **CSF Thompson:** ED (Dip); **Rubycon:** F2X, F2S, F3U; **Nichicon:** TDY; **Nissei:** AMZ, AMX, AMR, AMM.

SPECIFICATIONS: • **Operating Temp. Range:** -40°C ~ 85°C • **Rated Voltage:** DC 50V, 100V, 200V. • **Capacitance Range:** .0001 ~ 0.47µF • **Capacitance Tolerance:** ±5% (J), ±10% (K) • **Dissipation Factor:** 1.0% (20°C, 1kHz) • **Withstand Voltage:** Between Terminals: rated voltage(V, DC) x 250% 1 ~ 5 sec. • **Insulation Resistance:** C≤ 0.33µF: 30000MΩ min. (20°C, 50VDC 60s: ECQB1H(F), C > 0.33µF: 10000MΩ min. (20°C, 100VDC 60s: ECQB1(F), ECQB2(F) • **Construction:** Polyester film, non-inductive, epoxy coating.

FEATURES: High volumetric efficiency; non-inductive construction; low-loss, high stability; and epoxy resin coating.

APPLICATIONS: Blocking, by-pass and coupling of DC and signal to VHF range; pulse, logic and timing circuits; light duty pulse forming networks; filter & noise suppression circuits; and general purpose usage.

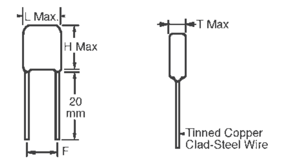

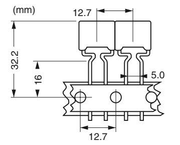

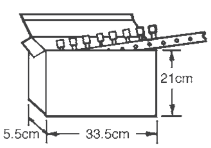

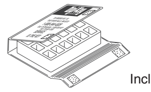

Panasonic Polyester Capacitors

Digi-Key® B-Series Kit

300 capacitors in all.

P4550-KIT-ND **$29.95**

Includes those parts listed below (*).

P4551-ND . 80 pc.	P4555-ND . 30 pc.	P4559-ND . 30 pc.
P4552-ND . 10 pc.	P4556-ND . 10 pc.	P4560-ND . 10 pc.
P4553-ND . 20 pc.	P4557-ND . 20 pc.	P4561-ND . 30 pc.
P4554-ND . 20 pc.	P4558-ND . 20 pc.	P4562-ND . 20 pc.

Cap.	Toler-	Dimensions (mm)				Digi-Key	Pricing				Panasonic
µF	ance	L	T	H	F	Part No.	10	100	1,000	5,000	Part No.
50WV (Bulk Pkg.) — RoHS Compliant											
.0001	±10%	7.0	3.0	6.0	5.0	P4570-ND	.72	4.80	38.00	36.00/M	ECQ-B1H101KF
.00012	±10%	7.0	3.0	6.0	5.0	P4571-ND	.72	4.80	38.00	36.00/M	ECQ-B1H121KF
.00015	±10%	7.0	3.0	6.0	5.0	P4572-ND	.72	4.80	38.00	36.00/M	ECQ-B1H151KF
.00018	±10%	7.0	3.0	6.0	5.0	P4573-ND	.72	4.80	38.00	36.00/M	ECQ-B1H181KF
.00022	±10%	7.0	3.0	6.0	5.0	P4574-ND	.72	4.80	38.00	36.00/M	ECQ-B1H221KF
.00027	±10%	7.0	3.0	6.0	5.0	P4575-ND	.72	4.80	38.00	36.00/M	ECQ-B1H271KF
.00033	±10%	7.0	3.0	6.0	5.0	P4576-ND	.72	4.80	38.00	36.00/M	ECQ-B1H331KF
.00039	±10%	7.0	3.0	6.0	5.0	P4577-ND	.72	4.80	38.00	36.00/M	ECQ-B1H391KF
.00047	±5%	7.0	3.0	6.0	5.0	P4578-ND	.72	4.80	38.00	36.00/M	ECQ-B1H471JF
.00056	±5%	7.0	3.0	6.0	5.0	P4579-ND	.72	4.80	38.00	36.00/M	ECQ-B1H561JF
.00068	±5%	7.0	3.0	6.0	5.0	P4580-ND	.72	4.80	38.00	36.00/M	ECQ-B1H681JF
.00082	±5%	7.0	3.0	6.0	5.0	P4581-ND	.72	4.80	38.00	36.00/M	ECQ-B1H821JF
.001	±5%	7.0	3.0	6.0	5.0	P4551-ND*	.72	4.80	38.00	36.00/M	ECQ-B1H102JF
.0012	±5%	7.0	3.0	6.0	5.0	P4552-ND*	.72	4.80	38.00	36.00/M	ECQ-B1H122JF
.0015	±5%	7.0	3.0	6.0	5.0	P4553-ND*	.72	4.80	38.00	36.00/M	ECQ-B1H152JF
.0018	±5%	7.0	3.0	6.0	5.0	P4554-ND*	.72	4.80	38.00	36.00/M	ECQ-B1H182JF
.0022	±5%	7.0	3.0	6.0	5.0	P4555-ND*	.72	4.80	38.00	36.00/M	ECQ-B1H222JF
.0027	±5%	7.0	3.0	6.0	5.0	P4556-ND*	.72	4.80	38.00	36.00/M	ECQ-B1H272JF
.0033	±5%	7.0	3.0	6.0	5.0	P4557-ND*	.72	4.80	38.00	36.00/M	ECQ-B1H332JF
.0039	±5%	7.0	3.0	6.0	5.0	P4558-ND*	.72	4.80	38.00	36.00/M	ECQ-B1H392JF
.0047	±5%	7.0	3.0	6.0	5.0	P4559-ND*	.72	4.80	38.00	36.00/M	ECQ-B1H472JF
.0056	±5%	7.0	3.0	6.0	5.0	P4560-ND*	.72	4.80	38.00	36.00/M	ECQ-B1H562JF
.0068	±5%	7.0	3.0	6.0	5.0	P4561-ND*	.72	4.80	38.00	36.00/M	ECQ-B1H682JF
.0082	±5%	7.0	3.0	6.0	5.0	P4562-ND*	.72	4.80	38.00	36.00/M	ECQ-B1H822JF
.01	±5%	7.0	3.0	6.0	5.0	P4582-ND	.72	4.80	38.00	36.00/M	ECQ-B1H103JF
.012	±5%	7.3	3.3	6.0	5.0	P4583-ND	.75	5.00	39.00	38.00/M	ECQ-B1H123JF
.015	±5%	7.5	3.0	6.0	5.0	P4584-ND	.78	5.20	41.00	39.00/M	ECQ-B1H153JF
.018	±5%	7.5	3.0	6.0	5.0	P4585-ND	.81	5.40	42.00	41.00/M	ECQ-B1H183JF
.022	±5%	7.5	3.0	6.0	5.0	P4586-ND	.81	5.40	42.00	41.00/M	ECQ-B1H223JF
.027	±5%	7.5	3.5	6.5	5.0	P4587-ND	.84	5.60	44.00	42.00/M	ECQ-B1H273JF
.033	±5%	7.5	3.5	6.5	5.0	P4569-ND	.87	5.80	45.00	44.00/M	ECQ-B1H333JF
.039	±5%	7.5	4.0	7.0	5.0	P4588-ND	.90	6.00	47.00	45.00/M	ECQ-B1H393JF
.047	±5%	7.5	4.0	7.5	5.0	P4589-ND	.93	6.20	48.00	47.00/M	ECQ-B1H473JF
.056	±5%	8.0	4.3	7.5	5.0	P4590-ND	.99	6.60	52.00	50.00/M	ECQ-B1H563JF
.068	±5%	8.0	4.3	8.5	5.0	P4591-ND	1.14	7.60	59.00	57.00/M	ECQ-B1H683JF
.082	±5%	8.0	4.5	9.0	5.0	P4592-ND	1.20	8.00	63.00	60.00/M	ECQ-B1H823J
.1	±5%	8.0	5.0	10.0	5.0	P4593-ND	1.29	8.60	67.00	65.00/M	ECQ-B1H104JF
.12	±5%	11.0	5.0	11.6	7.5	P4594-ND	3.15	21.00	164.00	159.00/M	ECQ-B1H124JF
.15	±5%	11.0	5.0	12.0	7.5	P4595-ND	3.39	22.60	177.00	171.00/M	ECQ-B1H154JF
.18	±5%	11.0	6.0	12.4	7.5	P4596-ND	3.54	23.60	184.00	178.00/M	ECQ-B1H184JF
.22	±5%	11.0	6.0	13.0	7.5	P4597-ND	3.96	26.40	206.00	199.00/M	ECQ-B1H224JF
.27	±5%	13.0	6.0	14.4	10.0	P4598-ND	4.95	33.00	258.00	249.00/M	ECQ-B1H274JF
.33	±5%	13.0	6.0	15.0	10.0	P4599-ND	5.34	35.60	278.00	269.00/M	ECQ-B1H334JF
.39	±5%	13.0	6.5	15.4	10.0	P4734-ND	5.76	38.40	300.00	290.00/M	ECQ-B1H394JF
.47	±5%	13.0	7.5	16.2	10.0	P4735-ND	6.33	42.20	330.00	319.00/M	ECQ-B1H474JF
100WV (Bulk Pkg.)											
.0001	±5%	7.2	3.0	6.0	5.0	P4773-ND◆	2.04	13.60	106.00	103.00/M	ECQ-B1101JF
.00012	±5%	7.2	3.0	6.0	5.0	P4774-ND◆	2.04	13.60	106.00	103.00/M	ECQ-B1121JF
.00018	±5%	7.2	3.0	6.0	5.0	P4776-ND◆	2.04	13.60	106.00	103.00/M	ECQ-B1181JF
.00022	±5%	7.2	3.0	6.0	5.0	P4777-ND◆	2.04	13.60	106.00	103.00/M	ECQ-B1221JF
.00027	±5%	7.2	3.0	6.0	5.0	P4778-ND	2.04	13.60	106.00	103.00/M	ECQ-B1271JF
.00033	±5%	7.2	3.0	6.0	5.0	P4779-ND◆	2.04	13.60	106.00	103.00/M	ECQ-B1331JF
.00047	±5%	7.2	3.0	6.0	5.0	P4781-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1471JF
.00056	±5%	7.2	3.0	6.0	5.0	P4782-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1561JF
.00068	±5%	7.2	3.0	6.0	5.0	P4783-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1681JF
.00082	±5%	7.2	3.0	6.0	5.0	P4784-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1821JF
.001	±5%	7.2	3.0	6.0	5.0	P4785-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1102JF
.0012	±5%	7.2	3.0	6.0	5.0	P4786-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1122JF
.0015	±5%	7.2	3.0	6.0	5.0	P4787-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1152JF
.0018	±5%	7.2	3.0	6.5	5.0	P4788-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1182JF
.0022	±5%	7.2	3.0	6.5	5.0	P4789-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1222JF
.0027	±5%	7.2	3.0	6.5	5.0	P4790-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1272JF
.0033	±5%	7.2	3.0	6.5	5.0	P4791-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1332JF
.0039	±5%	7.2	3.0	6.5	5.0	P4792-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1392JF
.0047	±5%	7.2	3.0	6.5	5.0	P4793-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1472JF
.0056	±5%	7.2	3.0	6.5	5.0	P4794-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1562JF
.0068	±5%	7.2	3.0	6.5	5.0	P4795-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1682JF
.0082	±5%	7.2	3.2	7.0	5.0	P4796-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1822JF
.01	±5%	7.2	3.2	7.0	5.0	P4797-ND◆	1.16	7.74	60.00	58.00/M	ECQ-B1103JF
.012	±5%	7.2	3.5	7.0	5.0	P4798-ND	1.16	7.74	60.00	58.00/M	ECQ-B1123JF
.015	±5%	7.2	4.0	7.5	5.0	P4799-ND◆	1.20	8.02	63.00	61.00/M	ECQ-B1153JF
.018	±5%	7.2	4.5	8.0	5.0	P4647-ND◆	1.28	8.56	67.00	65.00/M	ECQ-B1183JF
.022	±5%	7.2	4.5	9.0	5.0	P4648-ND◆	1.38	9.22	72.00	70.00/M	ECQ-B1223JF
.027	±5%	7.5	5.0	9.5	5.0	P4649-ND◆	1.44	9.62	75.00	73.00/M	ECQ-B1273JF
.033	±5%	7.5	5.5	10.0	5.0	P4650-ND◆	1.47	9.80	77.00	74.00/M	ECQ-B1333JF
.039	±5%	7.5	6.0	11.2	5.0	P4651-ND	1.47	9.80	77.00	74.00/M	ECQ-B1393JF
.047	±5%	7.5	6.5	11.8	5.0	P4652-ND◆	1.49	9.90	77.00	75.00/M	ECQ-B1473JF
.056	±5%	10.0	5.0	12.0	7.5	P4653-ND◆	1.49	9.90	77.00	75.00/M	ECQ-B1563JF
.068	±5%	10.0	5.5	12.4	7.5	P4654-ND◆	1.52	10.12	79.00	76.00/M	ECQ-B1683JF
.082	±5%	10.0	5.5	14.0	7.5	P4655-ND◆	1.55	10.36	81.00	78.00/M	ECQ-B1823JF
.1	±5%	10.5	6.0	14.6	7.5	P4656-ND◆	1.59	10.58	83.00	80.00/M	ECQ-B1104JF
.12	±5%	10.5	7.0	15.2	7.5	P4657-ND◆	2.54	16.94	132.00	128.00/M	ECQ-B1124JF
.15	±5%	13.0	7.0	12.0	13.8	P4658-ND◆	3.05	20.32	159.00	153.00/M	ECQ-B1154JF
100WV (Bulk Pkg.)											
.18	±5%	13.0	7.5	14.4	10.0	P4659-ND◆	3.56	23.70	185.00	179.00/M	ECQ-B1184JF
.22	±5%	13.0	8.0	15.2	10.0	P4660-ND◆	4.06	27.08	212.00	205.00/M	ECQ-B1224JF
.27	±5%	13.0	8.5	17.2	10.0	P4661-ND	4.57	30.46	238.00	230.00/M	ECQ-B1274JF
.33	±5%	13.0	9.0	18.0	10.0	P4662-ND◆	5.08	33.84	264.00	256.00/M	ECQ-B1334JF
.39	±5%	13.0	10.5	19.0	10.0	P4663-ND	6.09	40.60	317.00	307.00/M	ECQ-B1394JF
.47	±5%	13.0	11.5	19.2	10.0	P4664-ND◆	7.61	50.74	396.00	383.00/M	ECQ-B1474JF
200WV (Bulk Pkg.)											
.001	±5%	8.5	4.0	7.0	5.0	P4537A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2102JF
.0012	±5%	8.5	4.0	7.5	5.0	P4538A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2122JF
.0015	±5%	8.5	4.0	7.5	5.0	P4539A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2152JF
.0018	±5%	8.5	4.5	7.5	5.0	P4540A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2182JF
.0022	±5%	8.5	4.5	7.5	5.0	P4541A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2222JF
.0027	±5%	8.5	4.5	8.0	5.0	P4542A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2272JF
.0033	±5%	11.0	4.5	7.5	7.5	P4543A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2332JF
.0039	±5%	11.0	4.5	7.5	7.5	P4544A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2392JF
.0047	±5%	11.0	4.5	8.5	7.5	P4545A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2472JF
.0056	+5%	11.0	4.5	8.5	7.5	P4546A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2562JF
.0068	±5%	11.0	4.5	9.0	7.5	P4547A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2682JF
.0082	±5%	11.0	4.5	9.0	7.5	P4548A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2822JF
.01	±5%	11.0	4.5	10.0	7.5	P4549A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2103JF
.012	±5%	11.0	5.0	10.5	7.5	P4550A-ND◆	1.40	9.30	73.00	70.00/M	ECQ-B2123JF
.015	±5%	11.0	5.5	10.5	7.5	P4551A-ND◆	1.44	9.62	75.00	73.00/M	ECQ-B2153JF
.018	±5%	11.0	5.5	12.2	7.5	P4552A-ND	1.55	10.30	80.00	78.00/M	ECQ-B2183JF
.022	±5%	11.0	6.0	12.6	7.5	P4553A-ND	1.66	11.08	87.00	84.00/M	ECQ-B2223JF
.027	±5%	11.0	6.5	13.2	7.5	P4554A-ND	1.73	11.56	90.00	87.00/M	ECQ-B2273JF
.033	±5%	11.0	7.0	13.6	7.5	P4555A-ND	1.77	11.78	92.00	89.00/M	ECQ-B2333JF
.039	±5%	13.5	5.0	14.4	10.0	P4556A-ND	1.77	11.78	92.00	89.00/M	ECQ-B2393JF
.047	±5%	13.5	5.5	14.8	10.0	P4557A-ND	1.78	11.88	93.00	90.00/M	ECQ-B2473JF
.056	±5%	13.5	6.0	15.4	10.0	P4558A-ND	1.78	11.88	93.00	90.00/M	ECQ-B2563JF
.068	±5%	16.0	5.5	15.0	12.5	P4559A-ND	1.82	12.16	95.00	92.00/M	ECQ-B2683JF
.082	±5%	16.0	6.0	15.4	12.5	P4560A-ND◆	1.86	12.42	97.00	94.00/M	ECQ-B2823JF
.1	±5%	16.0	7.0	16.0	12.5	P4561A-ND◆	1.91	12.70	99.00	96.00/M	ECQ-B2104JF
.12	±5%	19.0	6.5	17.6	15.0	P4562A-ND◆	3.05	20.34	159.00	154.00/M	ECQ-B2124JF
.15	±5%	19.0	7.5	18.4	15.0	P4563A-ND	3.66	24.38	190.00	184.00/M	ECQ-B2154JF
.18	±5%	19.0	8.0	19.0	15.0	P4564A-ND	4.27	28.44	222.00	215.00/M	ECQ-B2184JF
.22	±5%	19.0	9.0	20.0	15.0	P4565A-ND◆	4.88	32.50	254.00	245.00/M	ECQ-B2224JF
.27	±5%	24.0	8.0	19.4	20.0	P4566A-ND◆	5.48	36.56	286.00	276.00/M	ECQ-B2274JF
.33	±5%	24.0	9.0	20.4	20.0	P4567A-ND◆	6.09	40.62	317.00	307.00/M	ECQ-B2334JF
.39	±5%	24.0	10.0	21.2	20.0	P4568A-ND	7.31	48.72	381.00	368.00/M	ECQ-B2394JF
.47	±5%	24.0	11.5	22.2	20.0	P4569A-ND◆	9.14	60.92	476.00	460.00/M	ECQ-B2474JF

Cap.	Toler-	Dimensions (mm)				Digi-Key	Tape and Box		Panasonic
µF	ance	L	T	H	F	Part No.	Qty.	Pricing	Part No.
50WV (Ammo Box Pkg.)									
.0001	±10%	7.0	3.0	6.0	5.0	P4570TB-ND◆	2,000	38.00/M	ECQ-B1H101KF3
.00012	±10%	7.0	3.0	6.0	5.0	P4571TB-ND◆	2,000	38.00/M	ECQ-B1H121KF3
.00015	±10%	7.0	3.0	6.0	5.0	P4572TB-ND◆	2,000	38.00/M	ECQ-B1H151KF3
.00018	±10%	7.0	3.0	6.0	5.0	P4573TB-ND	2,000	38.00/M	ECQ-B1H181KF3
.00022	±10%	7.0	3.0	6.0	5.0	P4574TB-ND◆	2,000	38.00/M	ECQ-B1H221KF3
.00027	±10%	7.0	3.0	6.0	5.0	P4575TB-ND◆	2,000	38.00/M	ECQ-B1H271KF3
.00033	±10%	7.0	3.0	6.0	5.0	P4576TB-ND◆	2,000	38.00/M	ECQ-B1H331KF3
.00039	±10%	7.0	3.0	6.0	5.0	P4577TB-ND	2,000	38.00/M	ECQ-B1H391KF3
.00047	±5%	7.0	3.0	6.0	5.0	P4578TB-ND◆	2,000	38.00/M	ECQ-B1H471JF3
.00056	±5%	7.0	3.0	6.0	5.0	P4579TB-ND◆	2,000	38.00/M	ECQ-B1H561JF3
.00068	±5%	7.0	3.0	6.0	5.0	P4580TB-ND◆	2,000	38.00/M	ECQ-B1H681JF3
.00082	±5%	7.0	3.0	6.0	5.0	P4581TB-ND◆	2,000	38.00/M	ECQ-B1H821JF3
.001	±5%	7.0	3.0	6.0	5.0	P4551TB-ND◆	2,000	38.00/M	ECQ-B1H102JF3
.0012	±5%	7.0	3.0	6.0	5.0	P4552TB-ND◆	2,000	38.00/M	ECQ-B1H122JF3
.0015	±5%	7.0	3.0	6.0	5.0	P4553TB-ND◆	2,000	38.00/M	ECQ-B1H152JF3
.0018	±5%	7.0	3.0	6.0	5.0	P4554TB-ND◆	2,000	38.00/M	ECQ-B1H182JF3
.0022	±5%	7.0	3.0	6.0	5.0	P4555TB-ND◆	2,000	38.00/M	ECQ-B1H222JF3
.0027	±5%	7.0	3.0	6.0	5.0	P4556TB-ND◆	2,000	38.00/M	ECQ-B1H272JF3
.0033	±5%	7.0	3.0	6.0	5.0	P4557TB-ND◆	2,000	38.00/M	ECQ-B1H332JF3
.0039	±5%	7.0	3.0	6.0	5.0	P4558TB-ND◆	2,000	38.00/M	ECQ-B1H392JF3
.0047	±5%	7.0	3.0	6.0	5.0	P4559TB-ND◆	2,000	38.00/M	ECQ-B1H472JF3
.0056	±5%	7.0	3.0	6.0	5.0	P4560TB-ND◆	2,000	38.00/M	ECQ-B1H562JF3
.0068	±5%	7.0	3.0	6.0	5.0	P4561TB-ND◆	2,000	38.00/M	ECQ-B1H682JF3
.0082	±5%	7.0	3.0	6.0	5.0	P4562TB-ND◆	2,000	38.00/M	ECQ-B1H822JF3
.01	±5%	7.0	3.0	6.0	5.0	P4582TB-ND◆	2,000	38.00/M	ECQ-B1H103JF3
.012	±5%	7.3	3.3	6.3	5.0	P4583TB-ND	2,000	39.00/M	ECQ-B1H123JF3
.015	±5%	7.5	3.0	6.0	5.0	P4584TB-ND◆	2,000	41.00/M	ECQ-B1H153JF3
.018	±5%	7.5	3.0	6.0	5.0	P4585TB-ND◆	2,000	42.00/M	ECQ-B1H183JF3
.022	±5%	7.5	3.0	6.0	5.0	P4586TB-ND◆	2,000	44.00/M	ECQ-B1H223JF3
.027	±5%	7.5	3.5	6.5	5.0	P4587TB-ND◆	2,000	44.00/M	ECQ-B1H273JF3
.033	±5%	7.5	3.5	6.5	5.0	P4569TB-ND◆	2,000	45.00/M	ECQ-B1H333JF3
.039	±5%	7.5	4.0	7.0	5.0	P4588TB-ND	2,000	47.00/M	ECQ-B1H393JF3
.047	±5%	7.5	4.0	7.5	5.0	P4589TB-ND◆	1,000	50.00	ECQ-B1H473JF3
.056	±5%	8.0	4.3	7.5	5.0	P4590TB-ND	1,000	52.00	ECQ-B1H563JF3
.068	±5%	8.0	4.3	8.5	5.0	P4591TB-ND◆	1,000	59.00	ECQ-B1H683JF3
.082	±5%	8.0	4.5	9.0	5.0	P4592TB-ND◆	1,000	63.00	ECQ-B1H823JF3
.1	±5%	8.0	5.0	10.0	5.0	P4593TB-ND◆	1,000	67.00	ECQ-B1H104JF3
.12	±5%	11.0	5.0	11.6	5.0	P4594TB-ND◆	1,000	153.00	ECQ-B1H124JF3
.15	±5%	11.0	5.0	12.0	5.0	P4595TB-ND	1,000	180.00	ECQ-B1H154JF3
.18	±5%	11.0	5.5	12.4	5.0	P4596TB-ND	500	87.50	ECQ-B1H184JF3
.22	±5%	11.0	6.0	13.0	5.0	P4597TB-ND◆	1,000	213.00	ECQ-B1H224JF3

◆ ***RoHS Compliant***

Panasonic® V-Series ±5% Stacked Metallized Film Capacitors

Suitable for Replacement of Monolithic Ceramic Capacitors in Most Cases

FEATURES: • High volumetric efficiency • Low dissipation factor • Stacked and non-inductive construction • Operating temperature range: -40°C ~ 85°C • Temperature coefficientΔc/c: 200 ppm • Dissipation factor (maximum): 1.0% • Insulation resistance (25°C): 1000MΩ µF • Self-healing

APPLICATIONS: • Blocking, by-pass and coupling of DC • Pulse, logic and timing circuits • Light duty pulse forming • Filter and noise suppression

PANASONIC ECQ-V CROSS REFERENCE
Sprague: 453P/454P. **CSF Thompson:** IRD
Siemens: B32509.

(To convert millimeters to inches divide by 25.4)

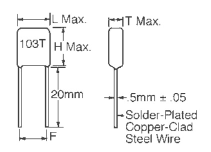

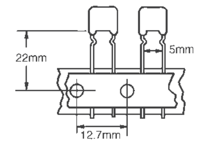

* All taped parts have 5mm lead space.

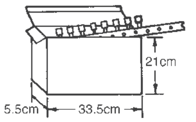

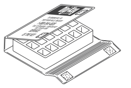

*** Panasonic V-Series Stacked Metallized Film Capacitors**

Digi-Key® V-Series Capacitors Kit

P4542-KIT-ND* **(50 Volt K)** **$49.95**
P4700-KIT-ND† **(100 Volt K)**.......... **$49.95**

Includes 10 each of those parts indicated below (* or †). 180 capacitors. 10 each of the values listed in the chart. Price includes a notebook style storage box with bin guide for easy storage and quick access.

Working Voltage	Cap. µF	Dimensions (mm) L	T	H	F	Digi-Key Part No.	Pricing 10	100	1,000	5,000	10,000	Panasonic Part No.
Bulk Package												
50	0.01	7.3	3.2	5.0	5.0	P4513-ND*◆	.95	7.90	47.00	44.00/M	41.00/M	ECQ-V1H103JL
	0.012	7.3	3.2	5.0	5.0	P4514-ND◆	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H123JL
	0.015	7.3	3.2	5.0	5.0	P4515-ND*◆	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H153JL
	0.018	7.3	3.2	5.0	5.0	P4516-ND◆	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H183JL
	0.022	7.3	3.2	5.0	5.0	P4517-ND*◆	1.25	10.38	62.00	58.00/M	54.00/M	ECQ-V1H223JL
	0.027	7.3	3.2	5.0	5.0	P4518-ND*◆	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1H273JL
	0.033	7.3	3.2	5.0	5.0	P4519-ND*◆	1.34	11.20	67.00	62.00/M	58.00/M	ECQ-V1H333JL
	0.039	7.3	3.2	5.0	5.0	P4520-ND◆	1.39	11.55	69.00	64.00/M	60.00/M	ECQ-V1H393JL
	0.047	7.3	3.2	5.0	5.0	P4521-ND*◆	1.01	8.40	50.00	47.00/M	44.00/M	ECQ-V1H473JL
	0.056	7.3	3.2	5.0	5.0	P4522-ND◆	1.01	8.40	50.00	47.00/M	44.00/M	ECQ-V1H563JL
	0.068	7.3	3.2	5.0	5.0	P4523-ND*◆	1.04	8.70	52.00	48.00/M	45.00/M	ECQ-V1H683JL
	0.082	7.3	3.6	5.0	5.0	P4524-ND*◆	1.08	8.98	54.00	50.00/M	47.00/M	ECQ-V1H823JL
	0.1	7.3	4.0	5.0	5.0	P4525-ND*◆	1.08	8.98	54.00	50.00/M	47.00/M	ECQ-V1H104JL
	0.12	7.3	4.0	5.0	5.0	P4526-ND◆	1.14	9.53	57.00	53.00/M	49.00/M	ECQ-V1H124JL
	0.15	10.2	3.4	9.0	7.5	P4538-ND	2.07	17.25	103.00	96.00/M	90.00/M	ECQ-V1H154JC
	0.15	7.3	4.4	5.5	5.0	P4665-ND*◆	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H154JL
	0.18	7.3	4.5	5.5	5.0	P4666-ND*◆	1.25	10.38	62.00	58.00/M	54.00/M	ECQ-V1H184JL
	0.22	7.3	4.8	5.5	5.0	P4667-ND◆	1.34	11.20	67.00	62.00/M	58.00/M	ECQ-V1H224JL
	0.27	7.3	4.6	7.0	5.0	P4668-ND*◆	1.41	11.78	70.00	65.00/M	61.00/M	ECQ-V1H274JL
	0.33	7.3	5.2	7.0	5.0	P4669-ND*◆	1.51	12.60	75.00	70.00/M	65.00/M	ECQ-V1H334JL
	0.39	7.3	5.7	7.3	5.0	P4670-ND◆	1.65	13.73	82.00	76.00/M	71.00/M	ECQ-V1H394JL
	0.47	7.3	6.0	7.3	5.0	P4671-ND*◆	1.82	15.13	90.00	84.00/M	79.00/M	ECQ-V1H474JL
	0.56	7.3	5.8	10.0	5.0	P4672-ND*◆	2.15	17.93	107.00	100.00/M	93.00/M	ECQ-V1H564JL
	0.68	7.3	6.5	10.0	5.0	P4673-ND*◆	3.23	26.90	161.00	149.00/M	140.00/M	ECQ-V1H684JL
	0.82	7.3	6.8	10.0	5.0	P4674-ND*◆	3.23	26.90	161.00	149.00/M	140.00/M	ECQ-V1H824JL
	1.0	7.3	8.0	11.0	5.0	P4675-ND*◆	3.86	32.20	192.00	179.00/M	167.00/M	ECQ-V1H105JL
63	0.18	10.2	3.5	9.0	7.5	P4539-ND◆	1.23	10.25	61.00	57.00/M	53.00/M	ECQ-V1J184JM
	0.22	10.2	3.5	9.0	7.5	P4540-ND◆	1.33	11.05	66.00	61.00/M	57.00/M	ECQ-V1J224JM
	0.27	10.2	3.5	9.0	7.5	P4541-ND◆	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-V1J274JM
	0.33	10.2	3.8	9.0	7.5	P4549-ND◆	1.49	12.43	74.00	69.00/M	65.00/M	ECQ-V1J334JM
	0.39	10.2	4.0	9.0	7.5	P4543-ND	1.63	13.55	81.00	75.00/M	70.00/M	ECQ-V1J394JM
	0.47	10.2	4.5	9.0	7.5	P4544-ND◆	1.79	14.93	89.00	83.00/M	78.00/M	ECQ-V1J474JM
	0.56	10.2	4.9	9.0	7.5	P4545-ND◆	2.12	17.70	106.00	98.00/M	92.00/M	ECQ-V1J564JM
	0.68	10.2	5.5	10.0	7.5	P4546-ND◆	3.18	26.53	158.00	147.00/M	138.00/M	ECQ-V1J684JM
	0.82	10.2	6.1	10.0	7.5	P4547-ND◆	3.18	26.53	158.00	147.00/M	138.00/M	ECQ-V1J824JM
	1.0	10.2	6.9	10.0	7.5	P4548-ND◆	3.81	31.75	190.00	176.00/M	165.00/M	ECQ-V1J105JM
100	0.01	7.3	3.2	7.0	5.0	P4713-ND†◆	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1103JM
	0.012	7.3	3.2	7.0	5.0	P4714-ND◆	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1123JM
	0.015	7.3	3.2	7.0	5.0	P4715-ND†◆	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1153JM
	0.018	7.3	3.2	7.0	5.0	P4716-ND◆	1.35	11.28	67.00	63.00/M	59.00/M	ECQ-V1183JM
	0.022	7.3	3.2	7.0	5.0	P4717-ND†◆	1.39	11.55	69.00	64.00/M	60.00/M	ECQ-V1223JM
	0.027	7.3	3.2	7.0	5.0	P4718-ND†	1.46	12.18	73.00	68.00/M	63.00/M	ECQ-V1273JM
	0.033	7.3	3.2	7.0	5.0	P4719-ND†◆	1.51	12.55	75.00	70.00/M	65.00/M	ECQ-V1333JM
	0.039	7.3	3.2	7.0	5.0	P4720-ND†◆	1.10	9.15	55.00	51.00/M	48.00/M	ECQ-V1393JM
	0.047	7.3	4.0	7.0	5.0	P4721-ND†◆	1.10	9.15	55.00	51.00/M	48.00/M	ECQ-V1473JM
	0.056	7.3	4.2	7.0	5.0	P4722-ND†	1.13	9.45	56.00	52.00/M	49.00/M	ECQ-V1563JM
	0.068	7.3	4.5	7.0	5.0	P4723-ND†◆	1.17	9.78	58.00	54.00/M	51.00/M	ECQ-V1683JM
	0.082	7.3	5.0	7.0	5.0	P4724-ND†◆	1.17	9.78	58.00	54.00/M	51.00/M	ECQ-V1823JM
	0.1	7.3	5.8	7.0	5.0	P4725-ND†◆	1.25	10.38	62.00	58.00/M	54.00/M	ECQ-V1104JM
	0.12	10.0	3.4	9.0	7.5	P4726-ND◆	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1124JM
	0.15	10.0	3.8	9.0	7.5	P4727-ND†◆	1.35	11.28	67.00	63.00/M	59.00/M	ECQ-V1154JM
	0.18	10.0	4.0	9.0	7.5	P4728-ND†◆	1.46	12.18	73.00	68.00/M	63.00/M	ECQ-V1184JM
	0.22	10.0	4.3	9.0	7.5	P4729-ND†◆	1.54	12.80	76.00	71.00/M	66.00/M	ECQ-V1224JM
	0.27	10.0	5.2	10.0	7.5	P4730-ND†◆	1.64	13.68	82.00	76.00/M	71.00/M	ECQ-V1274JM
	0.33	10.0	5.9	10.0	7.5	P4731-ND†◆	1.79	14.93	89.00	83.00/M	78.00/M	ECQ-V1334JM
	0.39	10.0	7.5	11.0	7.5	P4732-ND†◆	1.97	16.43	98.00	91.00/M	85.00/M	ECQ-V1394JM
	0.47	10.0	8.1	11.0	7.5	P4733-ND†◆	2.34	19.48	116.00	108.00/M	101.00/M	ECQ-V1474JM

◆ RoHS Compliant

Working Voltage	Cap. µF	Dimensions (mm) L	T	H	F	Digi-Key Part No.	Pricing 1,000	2,000	5,000	6,000	10,000	26,000	Panasonic Part No.
Ammo Box Package — RoHS Compliant													
50	0.01	7.3	3.2	7.0	5.0	P4513TB-ND	—	57.00/M	—	53.00/M	49.00/M	46.00/M	ECQ-V1H103JL3
	0.012	7.3	3.2	7.0	5.0	P4514TB-ND	—	59.00/M	—	54.00/M	51.00/M	48.00/M	ECQ-V1H123JL3
	0.015	7.3	3.2	7.0	5.0	P4515TB-ND	—	59.00/M	—	54.00/M	51.00/M	48.00/M	ECQ-V1H153JL3
	0.018	7.3	3.2	7.0	5.0	P4516TB-ND	—	59.00/M	—	54.00/M	51.00/M	48.00/M	ECQ-V1H183JL3
	0.022	7.3	3.2	5.0	5.0	P4517TB-ND	—	44.00/M	—	41.00/M	38.00/M	36.00/M	ECQ-V1H223JL3
	0.027	7.3	3.2	7.0	5.0	P4518TB-ND	—	64.00/M	—	59.00/M	55.00/M	52.00/M	ECQ-V1H273JL3
	0.033	7.3	3.2	7.0	5.0	P4519TB-ND	—	67.00/M	—	62.00/M	58.00/M	55.00/M	ECQ-V1H333JL3
	0.039	7.3	3.2	5.0	5.0	P4520TB-ND	—	69.00/M	—	64.00/M	60.00/M	56.00/M	ECQ-V1H393JL3
	0.047	7.3	3.2	7.0	5.0	P4521TB-ND	—	50.00/M	—	47.00/M	44.00/M	41.00/M	ECQ-V1H473JL3
	0.056	7.3	3.2	5.0	5.0	P4522TB-ND	—	50.00/M	—	47.00/M	44.00/M	41.00/M	ECQ-V1H563JL3
	0.068	7.3	3.9	7.0	5.0	P4523TB-ND	—	52.00/M	—	48.00/M	45.00/M	42.00/M	ECQ-V1H683JL3
	0.082	7.3	4.1	7.0	5.0	P4524TB-ND	—	54.00/M	—	50.00/M	47.00/M	44.00/M	ECQ-V1H823JL3
	0.1	7.3	4.4	7.0	5.0	P4525TB-ND	—	54.00/M	—	50.00/M	47.00/M	44.00/M	ECQ-V1H104JL3
	0.12	7.3	4.7	7.0	5.0	P4526TB-ND	—	54.00/M	—	50.00/M	47.00/M	44.00/M	ECQ-V1H124JL3
	0.15	10.0	3.4	9.0	5.0	P4527TB-ND	59.00	—	54.00/M	—	51.00/M	—	ECQ-V1H154JL3
	0.18	10.0	3.5	9.0	5.0	P4528TB-ND	62.00	—	58.00/M	—	54.00/M	—	ECQ-V1H184JL3
	0.22	10.0	3.7	9.0	5.0	P4529TB-ND	67.00	—	62.00/M	—	58.00/M	—	ECQ-V1H224JL3
	0.27	10.0	4.0	9.0	5.0	P4530TB-ND	70.00	—	65.00/M	—	61.00/M	—	ECQ-V1H274JL3
	0.33	10.0	4.2	9.0	5.0	P4531TB-ND	75.00	—	70.00/M	—	65.00/M	—	ECQ-V1H334JL3
	0.39	10.0	4.9	9.0	5.0	P4532TB-ND	82.00	—	76.00/M	—	71.00/M	—	ECQ-V1H394JL3
	0.47	10.0	5.5	10.0	5.0	P4533TB-ND	90.00	—	84.00/M	—	79.00/M	—	ECQ-V1H474JL3
	0.56	10.0	6.1	10.0	5.0	P4534TB-ND	107.00	—	100.00/M	—	93.00/M	—	ECQ-V1H564JL3
	0.68	10.0	6.8	10.0	5.0	P4535TB-ND	161.00	—	149.00/M	—	140.00/M	—	ECQ-V1H684JL3
	0.82	7.3	6.8	10.0	5.0	P4536TB-ND	161.00	—	149.00/M	—	140.00/M	—	ECQ-V1H824JL3
	1.0	7.3	8.0	11.0	5.0	P4537TB-ND	192.00	—	179.00/M	—	167.00/M	—	ECQ-V1H105JL3

Panasonic®

E-Series Metallized Polyester Capacitors

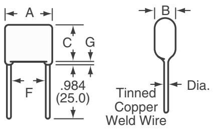

General Specifications:

Electrical: Rated Voltage 100VDC, 250VDC, 400 V.D.C., 630 V.D.C. **Capacitance Tolerance** ±10% (K) **Insulation Resistance:** Less than 0.33µF: 9,000MΩ; More than 0.33µF: 3,000MΩ. **Dissipation Factor** = 1.0% at 1kHz **Withstanding Voltage** Rated Voltage X 1.5 (1 minute) **Operating Temperature** -40°C ~ 85°C

Pansonic ECQ-E Cross References:

Sprague: DF/450P/451P/453P; **Westlake:** 160/168/185/167/184/186; **Mepco:** 713A1/719A1/C280; **TRW:** X601PE/X601CPE; **Packtron:** MF/RB; **Secor:** MMKS/MMKR/MMDR; **RIFA:** PHE353/PHE354; **Roederstein:** MKT1818/MKT1822; **WIMA:** MKS; **CSF Thompson:** MD/MC; **Siemens:** B325X-XX; **Rubycon:** MC/MN; **Nichicon:** DDXM.

Working Voltage	Cap. µF	Dimensions (mm)						Digi-Key Part No.	Pricing						Panasonic Part No.
		A	B	C	F	G	Dia.		1	10	100	1,000	5,000	10,000	
100	.1	12.0	4.0	7.4	10.0	1.0	.6	E1104-ND◆	.34	2.94	23.03	146.71	138.23/M	127.28/M	ECQ-E1104KZ
	.12	12.0	4.5	7.4	10.0	1.0	.6	E1124-ND	.35	3.03	23.74	151.20	142.46/M	131.17/M	ECQ-E1124KZ
	.15	12.0	4.0	9.5	10.0	1.0	.6	E1154-ND◆	.36	3.12	24.44	155.69	146.69/M	135.07/M	ECQ-E1154KZ
	.18	12.0	4.5	10.0	10.0	1.0	.6	E1184-ND	.39	3.30	25.85	164.67	155.15/M	142.86/M	ECQ-E1184KZ
	.22	12.0	5.0	10.5	10.0	1.0	.6	E1224-ND◆	.41	3.54	27.73	176.65	166.43/M	153.25/M	ECQ-E1224KZ
	.27	17.0	4.5	8.0	15.0	1.0	.6	E1274-ND◆	.46	3.90	30.55	194.61	183.36/M	168.84/M	ECQ-E1274KZ
	.33	17.0	4.5	10.0	15.0	1.0	.6	E1334-ND◆	.51	4.35	34.08	217.07	204.52/M	188.32/M	ECQ-E1334KZ
	.39	17.0	5.0	10.0	15.0	1.0	.6	E1394-ND	.53	4.50	35.25	224.55	211.57/M	194.81/M	ECQ-E1394KZ
	.47	17.0	5.5	11.0	15.0	1.0	.6	E1474-ND◆	.55	4.74	37.13	236.53	222.85/M	205.20/M	ECQ-E1474KZ
	.56	17.0	6.5	11.5	15.0	1.0	.6	E1564-ND◆	.64	5.46	42.77	272.45	256.70/M	236.37/M	ECQ-E1564KZ
	.68	17.0	7.0	12.0	15.0	1.0	.8	E1684-ND◆	.72	6.21	48.65	309.88	291.96/M	268.84/M	ECQ-E1684KZ
	.82	17.0	7.5	13.0	15.0	1.0	.8	E1824-ND◆	.79	6.81	53.35	339.82	320.17/M	294.81/M	ECQ-E1824KZ
	1.0	17.0	8.0	14.0	15.0	1.0	.8	E1105-ND◆	.86	7.41	58.05	369.76	348.38/M	320.78/M	ECQ-E1105KZ
	1.2	17.0	8.5	16.0	15.0	1.0	.8	E1125-ND	1.00	8.58	67.21	428.14	403.39/M	371.43/M	ECQ-E1125KZ
	1.5	25.5	7.5	14.5	22.5	1.0	.8	E1155-ND◆	1.17	10.02	78.49	500.00	471.09/M	433.77/M	ECQ-E1155KZ
	1.8	25.5	8.5	16.0	22.5	1.0	.8	E1185-ND	1.30	11.13	87.19	555.39	523.27/M	481.82/M	ECQ-E1185KZ
	2.2	25.5	9.5	16.5	22.5	1.0	.8	E1225-ND◆	1.47	12.60	98.70	628.74	592.38/M	545.46/M	ECQ-E1225KZ
	2.7	25.5	10.0	18.5	22.5	1.0	.8	E1275-ND	1.67	14.31	112.10	714.07	672.78/M	619.48/M	ECQ-E1275KZ
	3.3	25.5	10.0	19.0	22.5	1.0	.8	E1335-ND◆	2.13	18.24	142.88	910.18	857.55/M	789.61/M	ECQ-E1335KZ
	3.9	30.5	11.0	18.0	27.5	1.5	.8	E1395-ND◆	2.41	20.67	161.92	1031.43	971.79/M	894.81/M	ECQ-E1395KZ
	4.7	30.5	11.0	20.5	27.5	1.5	.8	E1475-ND◆	2.72	23.31	182.60	1163.17	1095.91/M	1009.09/M	ECQ-E1475KZ
	5.6	30.5	12.5	21.0	27.5	1.5	.8	E1565-ND◆	3.23	27.72	217.14	1383.23	1303.24/M	1200.00/M	ECQ-E1565KZ
	6.8	30.5	13.0	24.0	27.5	1.5	.8	E1685-ND◆	3.67	31.47	246.52	1570.35	1479.55/M	1362.34/M	ECQ-E1685KZ
	8.2	30.5	15.0	25.0	27.5	1.5	.8	E1825-ND◆	4.24	36.30	284.35	1811.37	1706.62/M	1571.43/M	ECQ-E1825KZ
	10.0	30.5	16.0	27.0	27.5	1.5	.8	E1106-ND◆	4.93	42.24	330.88	2107.78	1985.89/M	1828.57/M	ECQ-E1106KZ
250	.01	12.5	5.0	8.5	10.0	1.0	.6	E2103-ND*◆	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2103KS
	.012	12.5	5.0	8.5	10.0	1.0	.6	E2123-ND*◆	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2123KS
	.015	12.5	5.0	8.5	10.0	1.0	.6	E2153-ND◆	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2153KS
	.018	12.5	5.0	8.5	10.0	1.0	.6	E2183-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2183KS
	.022	12.5	5.0	8.5	10.0	1.0	.6	E2223-ND*◆	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2223KS
	.027	12.5	5.0	8.5	10.0	1.0	.6	E2273-ND◆	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2273KS
	.033	12.5	5.0	8.5	10.0	1.0	.6	E2333-ND*◆	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2333KS
	.039	12.5	5.0	8.5	10.0	1.0	.6	E2393-ND◆	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2393KS
	.047	12.5	5.0	8.0	10.0	1.0	.6	E2473-ND*◆	.26	2.19	17.16	109.28	102.97/M	94.81/M	ECQ-E2473KS
	.056	12.5	5.5	8.5	10.0	1.0	.6	E2563-ND◆	.32	2.76	21.62	137.72	129.76/M	119.48/M	ECQ-E2563KS
	.068	12.5	5.5	8.5	10.0	1.0	.6	E2683-ND*	.33	2.82	22.09	140.72	132.58/M	122.08/M	ECQ-E2683KS
	.082	12.5	5.5	10.0	10.0	1.0	.6	E2823-ND◆	.34	2.94	23.03	146.71	138.23/M	127.28/M	ECQ-E2823KS
	.10	12.5	5.5	10.5	10.0	1.0	.6	E2104-ND*◆	.26	2.20	17.23	109.73	103.39/M	95.20/M	ECQ-E2104KS
	.12	17.5	5.5	10.0	15.0	1.0	.8	E2124-ND◆	.40	3.42	26.79	170.66	160.79/M	148.06/M	ECQ-E2124KS
	.15	17.5	6.0	10.5	15.0	1.0	.8	E2154-ND*◆	.43	3.72	29.14	185.63	174.90/M	161.04/M	ECQ-E2154KS
	.18	17.5	6.0	10.5	15.0	1.0	.8	E2184-ND◆	.46	3.90	30.55	194.61	183.36/M	168.84/M	ECQ-E2184KS
	.22	17.5	6.0	11.0	15.0	1.0	.8	E2224-ND*◆	.38	3.30	25.83	164.52	155.01/M	142.73/M	ECQ-E2224KS
	.27	23.0	6.0	10.5	20.0	1.0	.8	E2274-ND◆	.55	4.71	36.90	235.03	221.44/M	203.90/M	ECQ-E2274KS
	.33	23.0	6.0	11.0	20.0	1.0	.8	E2334-ND*	.60	5.16	40.42	257.48	242.60/M	223.38/M	ECQ-E2334KS
	.39	23.0	6.5	11.5	20.0	1.0	.8	E2394-ND	.65	5.55	43.48	276.95	260.93/M	240.26/M	ECQ-E2394KS
	.47	23.0	7.0	12.0	20.0	1.0	.8	E2474-ND*◆	.69	5.94	46.53	296.41	279.27/M	257.15/M	ECQ-E2474KS
	.56	23.0	7.5	13.0	20.0	1.0	.8	E2564-ND	.76	6.51	51.00	324.85	306.07/M	281.82/M	ECQ-E2564KS
	.68	23.0	8.5	14.0	20.0	1.0	.8	E2684-ND◆	.84	7.17	56.17	357.78	337.10/M	310.39/M	ECQ-E2684KS
	.82	31.0	7.5	13.0	27.5	1.0	.8	E2824-ND◆	.92	7.89	61.81	393.71	370.95/M	341.56/M	ECQ-E2824KS
	1.0	31.0	8.5	14.0	27.5	1.0	.8	E2105-ND*	.98	8.37	65.57	417.66	393.51/M	362.34/M	ECQ-E2105KS
	1.2	31.0	8.5	16.0	27.5	1.0	.8	E2125-ND*◆	1.07	9.18	71.91	458.08	431.60/M	397.41/M	ECQ-E2125KS
	1.5	31.0	9.5	17.0	27.5	1.0	.8	E2155-ND*	1.38	11.82	92.59	589.82	555.71/M	511.69/M	ECQ-E2155KS
	1.8	31.0	9.5	18.5	27.5	1.0	.8	E2185-ND	1.66	14.25	111.63	711.08	669.96/M	616.89/M	ECQ-E2185KS
	2.2	31.0	10.5	19.5	27.5	1.0	.8	E2225-ND*◆	1.67	14.31	112.10	714.07	672.78/M	619.48/M	ECQ-E2225KS
400	.01	14.0	5.0	8.5	10.5	1.0	.6	E4103-ND◆	.42	3.60	28.20	179.64	169.26/M	155.85/M	ECQ-E4103KZ
	.012	14.0	5.5	8.5	10.5	1.0	.6	E4123-ND	.42	3.60	28.20	179.64	169.26/M	155.85/M	ECQ-E4123KZ
	.015	14.0	5.0	8.5	10.5	1.0	.6	E4153-ND◆	.43	3.72	29.14	185.63	174.90/M	161.04/M	ECQ-E4153KZ
	.018	14.0	5.5	8.5	10.5	1.0	.6	E4183-ND	.43	3.72	29.14	185.63	174.90/M	161.04/M	ECQ-E4183KZ
	.022	14.0	5.5	10.0	10.5	1.0	.6	E4223-ND◆	.44	3.75	29.38	187.13	176.31/M	162.34/M	ECQ-E4223KZ
	.027	14.0	5.5	10.5	10.5	1.0	.6	E4273-ND	.47	3.99	31.26	199.10	187.59/M	172.73/M	ECQ-E4273KZ
	.033	14.0	6.0	11.0	10.5	1.0	.6	E4333-ND◆	.49	4.20	32.90	209.58	197.46/M	181.82/M	ECQ-E4333KZ
	.039	14.0	6.5	11.5	10.5	1.0	.6	E4393-ND	.50	4.26	33.37	212.57	200.29/M	184.42/M	ECQ-E4393KZ
	.047	14.0	7.0	12.0	10.5	1.0	.6	E4473-ND◆	.50	4.26	33.37	212.57	200.29/M	184.42/M	ECQ-E4473KZ
	.056	17.0	6.5	11.0	13.5	1.0	.6	E4563-ND◆	.54	4.59	35.96	229.04	215.80/M	198.71/M	ECQ-E4563KZ
	.068	17.0	7.0	12.0	13.5	1.0	.6	E4683-ND◆	.57	4.86	38.07	242.51	228.49/M	210.39/M	ECQ-E4683KZ
	.082	17.0	7.5	12.5	13.5	1.0	.6	E4823-ND◆	.59	5.07	39.72	252.99	238.37/M	219.48/M	ECQ-E4823KZ
	.10	17.0	7.5	14.5	13.5	1.0	.6	E4104-ND◆	.58	4.98	39.01	248.50	234.14/M	215.59/M	ECQ-E4104KZ
	.12	17.0	8.5	15.5	13.5	1.0	.6	E4124-ND◆	.66	5.67	44.42	282.93	266.58/M	245.46/M	ECQ-E4124KZ
	.15	17.0	9.0	16.5	13.5	1.0	.8	E4154-ND◆	.72	6.21	48.65	309.88	291.96/M	268.84/M	ECQ-E4154KZ
	.18	17.0	10.0	17.0	13.5	1.0	.8	E4184-ND◆	.77	6.63	51.94	330.84	311.71/M	287.02/M	ECQ-E4184KZ
	.22	24.5	8.5	15.5	20.5	1.0	.8	E4224-ND◆	.83	7.11	55.70	354.79	334.28/M	307.80/M	ECQ-E4224KZ
	.27	24.5	9.0	16.5	20.5	1.0	.8	E4274-ND◆	.92	7.86	61.57	392.21	369.54/M	340.26/M	ECQ-E4274KZ
	.33	24.5	9.5	17.0	20.5	1.0	.8	E4334-ND◆	.99	8.46	66.27	422.15	397.75/M	366.24/M	ECQ-E4334KZ
	.39	29.5	9.5	16.5	25.5	1.5	.8	E4394-ND	1.07	9.18	71.91	458.08	431.60/M	397.41/M	ECQ-E4394KZ
	.47	29.5	10.0	17.5	25.5	1.5	.8	E4474-ND◆	1.16	9.90	77.55	494.01	465.45/M	428.58/M	ECQ-E4474KZ
	.56	29.5	11.0	18.0	25.5	1.5	.8	E4564-ND◆	1.26	10.80	84.60	538.92	507.76/M	467.54/M	ECQ-E4564KZ
	.68	29.5	12.0	19.0	25.5	1.5	.8	E4684-ND◆	1.41	12.09	94.71	603.29	568.41/M	523.38/M	ECQ-E4684KZ
	.82	29.5	13.0	21.0	25.5	1.5	.8	E4824-ND◆	1.54	13.20	103.40	658.68	620.59/M	571.43/M	ECQ-E4824KZ
	1.0	29.5	15.0	22.0	25.5	1.5	.8	E4105-ND◆	1.68	14.43	113.04	720.06	678.42/M	624.68/M	ECQ-E4105KZ
	1.2	29.5	15.0	25.0	25.5	1.5	.8	E4125-ND	2.38	20.40	159.80	1017.96	959.10/M	883.12/M	ECQ-E4125KZ
	1.5	43.5	13.0	22.0	38.5	1.5	.8	E4155-ND	2.56	21.96	172.02	1095.80	1032.44/M	950.65/M	ECQ-E4155KZ
	1.8	43.5	14.5	24.0	38.5	1.5	.8	E4185-ND	3.03	26.01	203.75	1297.90	1222.85/M	1125.98/M	ECQ-E4185KZ
	2.2	43.5	16.0	25.5	38.5	1.5	.8	E4225-ND	3.47	29.70	232.65	1482.03	1396.33/M	1285.72/M	ECQ-E4225KZ
630	.01	14.0	5.5	8.5	10.5	1.0	.6	E6103-ND◆	.45	3.87	30.32	193.11	181.95/M	167.54/M	ECQ-E6103KZ
	.015	14.0	6.0	10.5	10.5	1.0	.6	E6153-ND	.48	4.14	32.43	206.59	194.64/M	179.23/M	ECQ-E6153KZ
	.018	14.0	6.0	11.0	10.5	1.0	.6	E6183-ND◆	.50	4.26	33.37	212.57	200.29/M	184.42/M	ECQ-E6183KZ
	.022	14.0	6.5	12.0	10.5	1.0	.6	E6223-ND◆	.52	4.44	34.78	221.56	208.75/M	192.21/M	ECQ-E6223KZ
	.027	17.0	5.5	12.5	13.5	1.0	.6	E6273-ND	.54	4.59	35.96	229.04	215.80/M	198.71/M	ECQ-E6273KZ
	.033	17.0	6.0	12.0	13.5	1.0	.6	E6333-ND	.55	4.74	37.13	236.53	222.85/M	205.20/M	ECQ-E6333KZ
	.039	17.0	6.5	12.0	13.5	1.0	.6	E6393-ND◆	.57	4.86	38.07	242.51	228.49/M	210.39/M	ECQ-E6393KZ
	.047	17.0	7.0	13.5	13.5	1.0	.6	E6473-ND◆	.58	4.98	39.01	248.50	234.14/M	215.59/M	ECQ-E6473KZ
	.056	17.0	7.5	14.0	13.5	1.0	.6	E6563-ND◆	.62	5.34	41.83	266.47	251.06/M	231.17/M	ECQ-E6563KZ
	.068	17.0	8.5	15.0	13.5	1.0	.6	E6683-ND◆	.67	5.76	45.12	287.42	270.81/M	249.35/M	ECQ-E6683KZ
	.082	17.0	9.0	16.0	13.5	1.0	.8	E6823-ND◆	.72	6.15	48.18	306.89	289.14/M	266.24/M	ECQ-E6823KZ
	.10	24.5	7.0	14.0	20.5	1.5	.8	E6104-ND◆	.77	6.57	51.47	327.84	308.89/M	284.42/M	ECQ-E6104KZ
	.12	24.5	8.5	15.5	20.5	1.5	.8	E6124-ND	.85	7.26	56.87	362.27	341.33/M	314.29/M	ECQ-E6124KZ
	.15	24.5	9.0	16.5	20.5	1.5	.8	E6154-ND◆	.95	8.13	63.69	405.69	382.23/M	351.95/M	ECQ-E6154KZ
	.18	24.5	10.0	17.0	20.5	1.5	.8	E6184-ND◆	1.01	8.67	67.92	432.63	407.62/M	375.33/M	ECQ-E6184KZ
	.22	29.5	9.5	17.0	25.5	1.5	.8	E6224-ND◆	1.10	9.45	74.03	471.56	444.29/M	409.10/M	ECQ-E6224KZ
	.27	29.5	10.5	17.5	25.5	1.5	.8	E6274-ND◆	1.24	10.65	83.43	531.44	500.71/M	461.04/M	ECQ-E6274KZ
	.33	29.5	11.5	18.5	25.5	1.5	.8	E6334-ND◆	1.40	12.00	94.00	598.80	564.18/M	519.48/M	ECQ-E6334KZ
	.39	29.5	12.0	19.5	25.5	1.5	.8	E6394-ND◆	1.52	13.05	102.23	651.20	613.54/M	564.94/M	ECQ-E6394KZ
	.47	29.5	13.0	20.5	25.5	1.5	.8	E6474-ND◆	1.64	14.07	110.22	702.09	661.50/M	609.09/M	ECQ-E6474KZ
	.56	29.5	15.0	21.5	25.5	1.5	.8	E6564-ND	1.95	16.68	130.66	832.33	784.20/M	722.08/M	ECQ-E6564KZ
	.68	43.5	12.5	19.5	38.5	1.5	.8	E6684-ND	2.52	21.60	169.20	1077.84	1015.51/M	935.07/M	ECQ-E6684KZ
	.82	43.5	14.0	21.0	38.5	1.5	.8	E6824-ND	2.77	23.70	185.65	1182.63	1114.24/M	1025.98/M	ECQ-E6824KZ
	1.0	43.5	14.5	24.0	38.5	1.5	.8	E6105-ND◆	3.36	28.77	225.37	1435.62	1352.61/M	1245.46/M	ECQ-E6105KZ
	1.2	43.5	16.0	25.5	38.5	1.5	.8	E6125-ND◆	3.53	30.24	236.88	1508.98	1421.72/M	1309.09/M	ECQ-E6125KZ
	1.5	43.5	18.5	27.0	38.5	1.5	.8	E6155-ND	4.31	36.96	289.52	1844.30	1737.65/M	1600.00/M	ECQ-E6155KZ

◆ ***RoHS Compliant***
*** E-KIT-ND** ***Digi-Key® E-Series Capacitors Kit*** 10 each of all values denoted (except #E2104 which has 30 pcs.) - 170 total pieces. Notebook style storage case **$59.95**

Metallized Polypropylene Film Capacitors

DC Link Capacitors for Industrial Applications

Construction: • Dielectric: Polypropylene (MKP) film • Plastic case (UL94V-0) • Epoxy resin sealing • Wound technology **Terminals:** • Parallel wire leads • Lead-free tinned **Features:** • Low ESR • Ideal for DC Link applications • 2 and/or 4 pin capacitors available (depending on required capacitance value)

Fig. 1

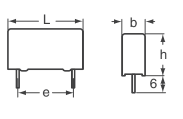

Fig. 2

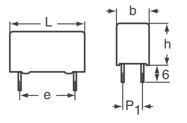

Fig.	WV (DC)	WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)					Digi-Key Part No.	Pricing			Epcos Part No.
					b	h	L	e	P_1		1	10	100	
1	300	160	2.2	±10%	11.0	19.0	31.5	27.5	—	495-2908-ND	2.73	20.67	175.50	B32674D3225K
			3.3	±10%	12.5	21.5	31.5	27.5	—	495-2909-ND	2.73	20.67	175.50	B32674D3335K
			4.7	±10%	14.0	24.5	31.5	27.5	—	495-2910-ND	3.76	28.43	241.43	B32674D3475K
			5.6	±10%	15.0	24.5	31.5	27.5	—	495-2911-ND	2.77	20.99	178.20	B32674D3565K
			6.8	±10%	18.0	27.5	31.5	27.5	—	495-2912-ND	5.12	38.77	329.18	B32674D3685K
			8.0	±10%	16.0	32.0	31.5	27.5	—	495-2913-ND	6.49	49.10	416.93	B32674D3805K
			8.2	±10%	18.0	33.0	31.5	27.5	—	495-2914-ND	4.62	34.98	297.00	B32674D3825K
			10	±10%	21.0	31.0	31.5	27.5	—	495-2915-ND	7.51	56.84	482.63	B32674D3106K
			12	±10%	22.0	36.5	31.5	27.5	—	495-2916-ND	8.19	62.01	526.50	B32674D3126K
			3.3	±10%	12.0	22.0	42.0	37.5	—	495-2944-ND	4.78	36.17	307.13	B32676E3335K
			4.7	±10%	12.0	22.0	42.0	37.5	—	495-2945-ND	5.12	38.77	329.18	B32676E3475K
			5.6	±10%	14.0	25.0	42.0	37.5	—	495-2946-ND	3.93	29.73	252.45	B32676E3565K
			6.5	±10%	14.0	25.0	42.0	37.5	—	495-2947-ND	6.14	46.51	394.88	B32676E3655K
			6.8	±10%	16.0	28.5	42.0	37.5	—	495-2948-ND	6.49	49.10	416.93	B32676E3685K
			10	±10%	18.0	32.5	42.0	37.5	—	495-2949-ND	8.19	62.01	526.50	B32676E3106K
			12	±10%	18.0	32.5	42.0	37.5	—	495-2950-ND	8.87	67.18	570.38	B32676E3126K
			15	±10%	20.0	39.5	42.0	37.5	—	495-2951-ND	7.16	54.22	460.35	B32676E3156K
			20	±10%	28.0	37.0	42.0	37.5	—	495-2952-ND	9.24	69.96	594.00	B32676E3206K
			22	±10%	28.0	42.5	42.0	37.5	—	495-2953-ND	14.33	108.52	921.38	B32676E3226K
			25	±10%	28.0	42.5	42.0	37.5	—	495-2954-ND	10.16	76.96	653.40	B32676E3256K
			30	±10%	30.0	45.0	42.0	37.5	—	495-2955-ND	19.45	147.29	1250.55	B32676E3306K
	450	275	1.5	±10%	11.0	19.0	31.5	27.5	—	495-2917-ND	2.39	18.10	153.68	B32674D4155K
			2.2	±10%	12.5	21.5	31.5	27.5	—	495-2918-ND	2.73	20.67	175.50	B32674D4225K
			3.3	±10%	15.0	24.5	31.5	27.5	—	495-2919-ND	3.41	25.84	219.38	B32674D4335K
			4.7	±10%	18.0	27.5	31.5	27.5	—	495-2920-ND	4.78	36.17	307.13	B32674D4475K
			5.0	±10%	16.0	32.0	31.5	27.5	—	495-2921-ND	5.80	43.94	373.05	B32674D4505K
			5.6	±10%	18.0	33.0	31.5	27.5	—	495-2922-ND	4.39	33.23	282.15	B32674D4565K
			6.0	±10%	21.0	31.0	31.5	27.5	—	495-2923-ND	6.49	49.10	416.93	B32674D4605K
			6.8	±10%	22.0	36.5	31.5	27.5	—	495-2924-ND	7.17	54.27	460.80	B32674D4685K
			7.5	±10%	22.0	36.5	31.5	27.5	—	495-2925-ND	7.17	54.27	460.80	B32674D4755K
			2.2	±10%	12.0	22.0	42.0	37.5	—	495-2956-ND	4.44	33.60	285.30	B32676E4225K
			3.0	±10%	12.0	22.0	42.0	37.5	—	495-2957-ND	4.78	36.17	307.13	B32676E4305K
			3.3	±10%	14.0	25.0	42.0	37.5	—	495-2958-ND	5.46	41.34	351.00	B32676E4335K
			4.0	±10%	14.0	25.0	42.0	37.5	—	495-2959-ND	5.46	41.34	351.00	B32676E4405K
			4.7	±10%	16.0	28.5	42.0	37.5	—	495-2960-ND	6.14	46.51	394.88	B32676E4475K
			5.6	±10%	16.0	28.5	42.0	37.5	—	495-2961-ND	4.39	33.23	282.15	B32676E4565K
			6.8	±10%	18.0	32.5	42.0	37.5	—	495-2962-ND	7.85	59.44	504.68	B32676E4685K
			8.2	±10%	20.0	39.5	42.0	37.5	—	495-2963-ND	6.24	47.22	400.95	B32676E4825K
			10	±10%	20.0	39.5	42.0	37.5	—	495-2964-ND	10.24	77.51	658.13	B32676E4106K
			15	±10%	28.0	42.5	42.0	37.5	—	495-2965-ND	9.01	68.21	579.15	B32676E4156K
			20	±10%	30.0	45.0	42.0	37.5	—	495-2966-ND	17.75	134.36	1140.75	B32676E4206K
	630	350	1.0	±10%	11.0	19.0	31.5	27.5	—	495-2926-ND	2.05	15.50	131.63	B32674D6105K
			1.5	±10%	12.5	21.5	31.5	27.5	—	495-2927-ND	2.39	18.10	153.68	B32674D6155K
			2.2	±10%	15.0	24.5	31.5	27.5	—	495-2928-ND	3.07	23.27	197.55	B32674D6225K
			3.3	±10%	16.0	32.0	31.5	27.5	—	495-2929-ND	5.12	38.77	329.18	B32674D6335K
			4.7	±10%	22.0	36.5	31.5	27.5	—	495-2930-ND	5.80	43.94	373.05	B32674D6475K
			5.0	±10%	22.0	36.5	31.5	27.5	—	495-2931-ND	5.80	43.94	373.05	B32674D6505K
			2.0	±10%	12.0	22.0	42.0	37.5	—	495-2967-ND	4.44	33.60	285.30	B32676E6205K
			2.7	±10%	14.0	25.0	42.0	37.5	—	495-2968-ND	3.23	24.49	207.90	B32676E6275K
			3.3	±10%	16.0	28.5	42.0	37.5	—	495-2969-ND	5.46	41.34	351.00	B32676E6335K
			4.0	±10%	16.0	28.5	42.0	37.5	—	495-2970-ND	5.46	41.34	351.00	B32676E6405K
			4.7	±10%	18.0	32.5	42.0	37.5	—	495-2971-ND	6.49	49.10	416.93	B32676E6475K
			6.8	±10%	20.0	39.5	42.0	37.5	—	495-2972-ND	8.19	62.01	526.50	B32676E6685K
			7.5	±10%	20.0	39.5	42.0	37.5	—	495-2973-ND	8.53	64.61	548.55	B32676E6755K
			8.2	±10%	28.0	37.0	42.0	37.5	—	495-2974-ND	6.47	48.97	415.80	B32676E6825K
			10	±10%	28.0	42.5	42.0	37.5	—	495-2975-ND	10.92	82.68	702.00	B32676E6106K
			12	±10%	28.0	42.5	42.0	37.5	—	495-2976-ND	11.26	85.28	724.05	B32676E6126K
			14	±10%	30.0	45.0	42.0	37.5	—	495-2977-ND	14.68	111.11	943.43	B32676E6146K
	750	375	.68	±10%	11.0	19.0	31.5	27.5	—	495-2932-ND	2.05	15.50	131.63	B32674D1684K
			1.0	±10%	12.5	21.5	31.5	27.5	—	495-2933-ND	2.39	18.10	153.68	B32674D1105K
			1.5	±10%	14.0	24.5	31.5	27.5	—	495-2934-ND	2.73	20.67	175.50	B32674D1155K
			2.2	±10%	18.0	27.5	31.5	27.5	—	495-2935-ND	4.10	31.01	263.25	B32674D1225K
			3.3	±10%	21.0	31.0	31.5	27.5	—	495-2936-ND	5.80	43.94	373.05	B32674D1335K
			4.0	±10%	22.0	36.5	31.5	27.5	—	495-2937-ND	6.14	46.51	394.88	B32674D1405K

Fig.	WV (DC)	WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)					Digi-Key Part No.	Pricing			Epcos Part No.
					b	h	L	e	P_1		1	10	100	
1	750	375	1.5	±10%	12.0	22.0	42.0	37.5	—	495-2978-ND	4.44	33.60	285.30	B32676E1155K
			2.0	±10%	14.0	25.0	42.0	37.5	—	495-2979-ND	5.12	38.77	329.18	B32676E1205K
			3.3	±10%	18.0	32.5	42.0	37.5	—	495-2980-ND	6.49	49.10	416.93	B32676E1335K
			4.7	±10%	20.0	39.5	42.0	37.5	—	495-2981-ND	7.85	59.44	504.68	B32676E1475K
			5.6	±10%	20.0	39.5	42.0	37.5	—	495-2982-ND	5.78	43.73	371.25	B32676E1565K
			6.8	±10%	28.0	37.0	42.0	37.5	—	495-2983-ND	9.56	72.35	614.25	B32676E1685K
			9.0	±10%	28.0	42.5	42.0	37.5	—	495-2984-ND	11.60	87.85	745.88	B32676E1905K
			10	±10%	30.0	45.0	42.0	37.5	—	495-2985-ND	14.33	108.52	921.38	B32676E1106K
	875	400	.47	±10%	11.0	19.0	31.5	27.5	—	495-2938-ND	2.05	15.50	131.63	B32674D8474K
			.68	±10%	11.0	21.0	31.5	27.5	—	495-2939-ND	2.05	15.50	131.63	B32674D8684K
			1.0	±10%	13.5	23.0	31.5	27.5	—	495-2940-ND	2.39	18.10	153.68	B32674D8105K
			1.5	±10%	18.0	27.5	31.5	27.5	—	495-2941-ND	3.76	28.43	241.43	B32674D8155K
			2.2	±10%	18.0	33.0	31.5	27.5	—	495-2942-ND	3.70	27.98	237.60	B32674D8225K
			3.0	±10%	22.0	36.5	31.5	27.5	—	495-2943-ND	6.14	46.51	394.88	B32674D8305K
			1.0	±10%	12.0	22.0	42.0	37.5	—	495-2986-ND	4.44	33.60	285.30	B32676E8105K
			1.5	±10%	14.0	25.0	42.0	37.5	—	495-2987-ND	4.78	36.17	307.13	B32676E8155K
			2.2	±10%	16.0	28.5	42.0	37.5	—	495-2988-ND	3.70	27.98	237.60	B32676E8225K
			3.3	±10%	20.0	39.5	42.0	37.5	—	495-2989-ND	7.85	59.44	504.68	B32676E8335K
			4.0	±10%	20.0	39.5	42.0	37.5	—	495-2990-ND	8.19	62.01	526.50	B32676E8405K
			4.7	±10%	28.0	37.0	42.0	37.5	—	495-2991-ND	11.26	85.28	724.05	B32676E8475K
			6.8	±10%	28.0	42.5	42.0	37.5	—	495-2992-ND	11.60	87.85	745.88	B32676E8685K
			7.5	±10%	30.0	45.0	42.0	37.5	—	495-2993-ND	14.33	108.52	921.38	B32676E8755K
2	300	160	15	±10%	20.0	39.5	42.0	37.5	10.2	495-2994-ND	10.16	76.96	653.40	B32676G3156K
			20	±10%	28.0	37.0	42.0	37.5	10.2	495-2995-ND	16.04	121.45	1031.18	B32676G3206K
			22	±10%	28.0	42.5	42.0	37.5	20.3	495-2996-ND	16.72	126.62	1075.05	B32676G3226K
			25	±10%	28.0	42.5	42.0	37.5	20.3	495-2997-ND	12.01	90.95	772.20	B32676G3256K
			30	±10%	30.0	45.0	42.0	37.5	20.3	495-2998-ND	19.11	144.69	1228.50	B32676G3306K
			30	±10%	30.0	45.0	57.5	52.5	20.3	495-2999-ND	15.70	118.85	1009.13	B32678G3306K
			35	±10%	30.0	45.0	57.5	52.5	20.3	495-3000-ND	15.25	115.43	980.10	B32678G3356K
			40	±10%	30.0	45.0	57.5	52.5	20.3	495-3001-ND	18.84	142.62	1210.95	B32678G3406K
			47	±10%	35.0	50.0	57.5	52.5	20.3	495-3002-ND	21.98	166.39	1412.78	B32678G3476K
			60	±10%	35.0	50.0	57.5	52.5	20.3	495-3003-ND	20.79	157.41	1336.50	B32678G3606K
	450	275	8.2	±10%	20.0	39.5	42.0	37.5	10.2	495-3004-ND	7.39	55.97	475.20	B32676G4825K
			10	±10%	20.0	39.5	42.0	37.5	10.2	495-3005-ND	12.63	95.61	811.80	B32676G4106K
			15	±10%	28.0	42.5	42.0	37.5	10.2	495-3006-ND	10.40	78.71	668.25	B32676G4156K
			20	±10%	30.0	45.0	42.0	37.5	20.3	495-3007-ND	18.43	139.52	1184.63	B32676G4206K
			20	±10%	30.0	45.0	57.5	52.5	20.3	495-3008-ND	14.13	106.98	908.33	B32678G4206K
			25	±10%	30.0	45.0	57.5	52.5	20.3	495-3009-ND	14.78	111.94	950.40	B32678G4256K
			30	±10%	35.0	50.0	57.5	52.5	20.3	495-3010-ND	17.53	132.71	1126.80	B32678G4306K
			35	±10%	35.0	50.0	57.5	52.5	20.3	495-3011-ND	16.63	125.93	1069.20	B32678G4356K
	630	350	6.8	±10%	20.0	39.5	42.0	37.5	10.2	495-3012-ND	10.58	80.11	680.18	B32676G6685K
			7.5	±10%	20.0	39.5	42.0	37.5	10.2	495-3013-ND	11.26	85.28	724.05	B32676G6755K
			8.2	±10%	28.0	37.0	42.0	37.5	10.2	495-3014-ND	8.78	66.46	564.30	B32676G6825K
			10	±10%	28.0	42.5	42.0	37.5	20.3	495-3015-ND	13.99	105.95	899.55	B32676G6106K
			12	±10%	28.0	42.5	42.0	37.5	20.3	495-3016-ND	15.02	113.69	965.25	B32676G6126K
			14	±10%	30.0	45.0	42.0	37.5	20.3	495-3017-ND	15.02	113.69	965.25	B32676G6146K
			15	±10%	30.0	45.0	57.5	52.5	20.3	495-3018-ND	11.32	85.70	727.65	B32678G6156K
			20	±10%	35.0	50.0	57.5	52.5	20.3	495-3019-ND	16.22	122.83	1042.88	B32678G6206K
			25	±10%	35.0	50.0	57.5	52.5	20.3	495-3020-ND	15.71	118.93	1009.80	B32678G6256K
	750	375	4.7	±10%	20.0	39.5	42.0	37.5	10.2	495-3021-ND	10.92	82.68	702.00	B32676G1475K
			5.6	±10%	20.0	39.5	42.0	37.5	10.2	495-3022-ND	7.85	59.47	504.90	B32676G1565K
			6.8	±10%	28.0	37.0	42.0	37.5	20.3	495-3023-ND	13.65	103.35	877.50	B32676G1685K
			9.0	±10%	28.0	42.5	42.0	37.5	20.3	495-3024-ND	15.70	118.85	1009.13	B32676G1905K
			10	±10%	30.0	45.0	42.0	37.5	20.3	495-3025-ND	16.38	124.02	1053.00	B32676G1106K
			15	±10%	30.0	45.0	57.5	52.5	20.3	495-3026-ND	13.63	103.19	876.15	B32678G1156K
			20	±10%	35.0	50.0	57.5	52.5	20.3	495-3027-ND	17.01	128.76	1093.28	B32678G1206K
	875	400	3.3	±10%	20.0	39.5	42.0	37.5	10.2	495-3028-ND	10.92	82.68	702.00	B32676G8335K
			4.0	±10%	20.0	39.5	42.0	37.5	10.2	495-3029-ND	11.60	87.85	745.88	B32676G8405K
			4.7	±10%	28.0	37.0	42.0	37.5	20.3	495-3030-ND	13.65	103.35	877.50	B32676G8475K
			6.8	±10%	28.0	42.5	42.0	37.5	20.3	495-3031-ND	11.09	83.95	712.80	B32676G8685K
			7.5	±10%	30.0	45.0	42.0	37.5	20.3	495-3032-ND	17.06	129.19	1096.88	B32676G8755K
			10	±10%	30.0	45.0	57.5	52.5	20.3	495-3033-ND	12.82	97.07	824.18	B32678G8106K
			15	±10%	35.0	50.0	57.5	52.5	20.3	495-3034-ND	16.48	124.79	1059.53	B32678G8156K

Metallized Polypropylene Film Capacitors

High Voltage / High Temperature

Application: • Electronic ballasts (resonant circuits) • SMPS • High-Frequency AC Loads • Pulse Circuits **Specifications:** • Maximum Operating Temperature: 125°C • Climatic Category (IEC 60068-1): 55/110/56 **Construction:** • Dielectric: Metallized Polypropylene (PP) • Wound Capacitor Technology • Plastic Case (UL 94 V-0) • Epoxy resin coating **Features:** • Very high AC voltages for all frequency ranges • Very small dimensions • High peak voltage for short time periods • High peak current • High pulse withstand capability

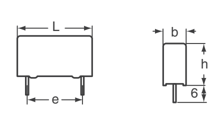

WV (DC)	WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
1000	500	.0033	±5%	4.0	9.0	13.0	10.0	495-3194-ND	.34	2.52	18.90	B32671L0332J000
		.0039	±5%	4.0	9.0	13.0	10.0	495-3195-ND	.34	2.55	19.13	B32671L0392J000
		.0041	±5%	4.0	9.0	13.0	10.0	495-3196-ND	.35	2.64	19.80	B32671L0412J000
		.0047	±5%	4.0	9.0	13.0	10.0	495-3197-ND	.35	2.64	19.80	B32671L0472J000
		.0056	±5%	5.0	11.0	13.0	10.0	495-3198-ND	.40	2.97	22.28	B32671L0562J000
		.0062	±5%	5.0	11.0	13.0	10.0	495-3199-ND	.50	3.75	28.13	B32671L0622J000
		.0068	±5%	5.0	11.0	13.0	10.0	495-3200-ND	.50	3.75	28.13	B32671L0682J000
		.0082	±5%	5.0	11.0	13.0	10.0	495-3201-ND	.56	4.20	31.50	B32671L0822J000
		.01	±5%	6.0	12.0	13.0	10.0	495-3202-ND	.74	5.55	41.63	B32671L0103J000
		.012	±5%	6.0	12.0	13.0	10.0	495-3203-ND	.75	5.64	42.30	B32671L0123J000
1600	600	.0012	±5%	4.0	9.0	13.0	10.0	495-3204-ND	.34	2.52	18.90	B32671L1122J000
		.0015	±5%	5.0	11.0	13.0	10.0	495-3205-ND	.34	2.52	18.90	B32671L1152J000
		.0022	±5%	5.0	11.0	13.0	10.0	495-3206-ND	.34	2.58	19.35	B32671L1222J000
		.0027	±5%	5.0	11.0	13.0	10.0	495-3207-ND	.34	2.58	19.35	B32671L1272J000
		.0033	±5%	6.0	12.0	13.0	10.0	495-3208-ND	.35	2.61	19.58	B32671L1332J000
		.0039	±5%	6.0	12.0	13.0	10.0	495-3209-ND	.36	2.67	20.03	B32671L1392J000
		.0041	±5%	6.0	12.0	13.0	10.0	495-3210-ND	.38	2.85	21.38	B32671L1412J000
		.0062	±5%	5.0	10.5	18.0	15.0	495-3211-ND	.40	2.99	22.41	B32672L1622J000
		.0068	±5%	5.0	10.5	18.0	15.0	495-3212-ND	.39	2.94	22.05	B32672L1682J000
		.0082	±5%	6.0	11.0	18.0	15.0	495-3213-ND	.46	3.45	25.88	B32672L1822J000
		.01	±5%	6.0	11.0	18.0	15.0	495-3214-ND	.48	3.60	27.00	B32672L1103J000

WV (DC)	WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
1600	600	.012	±5%	6.0	12.0	18.0	15.0	495-3215-ND	.53	3.96	29.70	B32672L1123J000
		.015	±5%	7.0	12.5	18.0	15.0	495-3216-ND	.58	4.38	32.85	B32672L1153J000
		.022	±5%	8.5	14.5	18.0	15.0	495-3217-ND	.76	5.73	42.98	B32672L1223J000
		.033	±5%	9.0	17.5	18.0	15.0	495-3218-ND	.88	6.57	49.28	B32672L1333J000
2000	700	.001	±5%	5.0	10.5	18.0	15.0	495-3219-ND	.44	3.33	24.98	B32672L8102J000
		.0012	±5%	5.0	10.5	18.0	15.0	495-3220-ND	.45	3.36	25.20	B32672L8122J000
		.0015	±5%	5.0	10.5	18.0	15.0	495-3221-ND	.45	3.36	25.20	B32672L8152J000
		.0022	±5%	5.0	10.5	18.0	15.0	495-3222-ND	.45	3.36	25.20	B32672L8222J000
		.0027	±5%	5.0	10.5	18.0	15.0	495-3223-ND	.50	3.75	28.13	B32672L8272J000
		.0033	±5%	5.0	10.5	18.0	15.0	495-3224-ND	.47	3.54	26.55	B32672L8332J000
		.0039	±5%	5.0	10.5	18.0	15.0	495-3225-ND	.52	3.93	29.48	B32672L8392J000
		.0041	±5%	5.0	10.5	18.0	15.0	495-3226-ND	.50	3.72	27.90	B32672L8412J000
		.0047	±5%	5.0	10.5	18.0	15.0	495-3227-ND	.53	3.96	29.70	B32672L8472J000
		.0056	±5%	6.0	11.0	18.0	15.0	495-3228-ND	.60	4.53	33.98	B32672L8562J000
		.0062	±5%	6.0	11.0	18.0	15.0	495-3229-ND	.57	4.29	32.18	B32672L8622J000
		.0068	±5%	6.0	11.0	18.0	15.0	495-3230-ND	.61	4.59	34.43	B32672L8682J000
		.0082	±5%	6.0	12.0	18.0	15.0	495-3231-ND	.75	5.64	42.30	B32672L8822J000
		.01	±5%	7.0	12.5	18.0	15.0	495-3232-ND	.82	6.15	46.13	B32672L8103J000
		.012	±5%	8.5	14.5	18.0	15.0	495-3233-ND	.95	7.14	53.55	B32672L8123J000
		.015	±5%	8.5	14.5	18.0	15.0	495-3234-ND	1.02	7.65	57.38	B32672L8153J000
		.022	±5%	9.0	17.5	18.0	15.0	495-3235-ND	1.15	8.61	64.58	B32672L8223J000

EPCOS

Metallized Polypropylene Film Capacitors

MKP Series

RoHS COMPLIANT

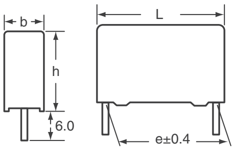

Construction: • Dielectric: polypropylene • Stacked and wound technology • Plastic case (UL94V-0) • Epoxy resin sealing **Features:** • Very high pulse strength • Very good self-healing properties • Small dimensions • High contact reliability **Typical Applications:** • Energy-saving lamps • TV S-correction • High pulse load applications • AC applications **Terminals:** • Parallel wire leads, tinned **Technical Data:** • Lower category temperature $T_{\min}$: -55°C • Upper category temperature $T_{\max}$: 100°C **Service Life:** 200,000 hours

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
160	90	0.10	±5%	5.0	10.5	10.0	7.5	495-1275-ND	.58	4.31	30.75	B32620A5104J
		0.10	±5%	5.0	11.0	13.0	10.0	495-1375-ND	.65	4.76	34.00	B32621A5104J
		0.15	±5%	6.0	12.0	10.3	7.5	495-1276-ND	.57	4.26	31.26	B32620A5154J
		0.22	±5%	6.0	12.0	13.0	10.0	495-1278-ND	.69	5.12	37.60	B32621A5224J
250	140	0.0022	±5%	4.0	7.0	13.0	10.0	495-1279-ND	.41	3.01	21.50	B32621A3222J
		0.0047	±5%	4.0	9.0	13.0	10.0	495-1281-ND	.43	3.15	22.50	B32621A3472J
		0.0068	±5%	4.0	9.0	13.0	10.0	495-1282-ND	.44	3.22	23.00	B32621A3682J
		0.01	±5%	4.0	9.0	13.0	10.0	495-1283-ND	.46	3.40	24.25	B32621A3103J
		0.022	±5%	4.0	8.5	10.0	7.5	495-1286-ND	.44	3.22	23.00	B32620A3223J
		0.022	±5%	4.0	9.0	13.0	10.0	495-1285-ND	.48	3.57	25.50	B32621A3223J
		0.047	±5%	5.0	10.5	10.0	7.5	495-1290-ND	.48	3.57	25.50	B32620A3473J
		0.047	±5%	4.0	9.0	13.0	10.0	495-1289-ND	.57	4.17	29.75	B32621A3473J
		0.068	±5%	5.0	11.0	13.0	10.0	495-1292-ND	.61	4.52	32.25	B32621A3683J
		0.10	±5%	6.0	12.0	10.3	7.5	495-1294-ND	.63	4.66	33.25	B32620A3104J
	160	0.22	±5%	6.0	11.0	18.0	15.0	495-1296-ND	.43	3.23	23.74	B32652A3224J
		0.33	±5%	7.0	12.5	18.0	15.0	495-1297-ND	.51	3.81	27.97	B32652A3334J
		0.47	±5%	8.5	14.5	18.0	15.0	495-1298-ND	.61	4.54	33.37	B32652A3474J
		0.68	±5%	9.0	17.5	18.0	15.0	495-1299-ND	.71	5.25	38.54	B32652A3684J
400	200	0.0068	±5%	4.0	8.5	10.0	7.5	495-1300-ND	.44	3.22	23.00	B32620A4682J
		0.01	±5%	4.0	8.5	10.0	7.5	495-1301-ND	.44	3.22	23.00	B32620A4103J
		0.022	±5%	5.0	10.5	10.0	7.5	495-1305-ND	.49	3.64	26.00	B32620A4223J
		0.022	±5%	5.0	11.0	13.0	10.0	495-1306-ND	.56	4.10	29.25	B32621A4223J
		0.033	±5%	6.0	12.0	10.3	7.5	495-1308-ND	.58	4.31	30.75	B32620A4333J
		0.033	±5%	5.0	11.0	13.0	10.0	495-1307-ND	.63	4.66	33.25	B32621A4333J
		0.047	±5%	6.0	12.0	13.0	10.0	495-1309-ND	.68	5.01	35.75	B32621A4473J
		0.068	±5%	5.0	10.5	18.0	15.0	495-1310-ND	.48	3.54	25.25	B32652A4683J
		0.10	±5%	5.0	10.5	18.0	15.0	495-1311-ND	.54	3.99	28.50	B32652A4104J
		0.15	±5%	6.0	11.0	18.0	15.0	495-1312-ND	.52	3.87	28.44	B32652A4154J
		0.22	±5%	7.0	12.5	18.0	15.0	495-1313-ND	.54	4.00	29.38	B32652A4224J
		0.33	±5%	8.5	14.5	18.0	15.0	495-1314-ND	.57	4.22	31.02	B32652A4334J
		0.47	±5%	9.0	17.5	18.0	15.0	495-1315-ND	.71	5.31	39.01	B32652A4474J
630	400	0.0015	±5%	4.0	8.5	10.0	7.5	495-1316-ND	.41	3.05	21.75	B32620A6152J
		0.0022	±5%	4.0	8.5	10.0	7.5	495-1318-ND	.41	3.05	21.75	B32620A6222J
		0.0022	±5%	4.0	7.0	13.0	10.0	495-1317-ND	.39	2.91	20.75	B32621A6222J
		0.0033	±5%	4.0	9.0	13.0	10.0	495-1320-ND	.40	2.98	21.25	B32621A6332J
		0.0047	±5%	4.0	8.5	10.0	7.5	495-1322-ND	.47	3.47	24.75	B32620A6472J
		0.0047	±5%	4.0	9.0	13.0	10.0	495-1321-ND	.42	3.12	22.25	B32621A6472J
		0.0068	±5%	5.0	10.5	10.0	7.5	495-1323-ND	.49	3.64	26.00	B32620A6682J
		0.0068	±5%	4.0	9.0	13.0	10.0	495-1324-ND	.47	3.43	24.50	B32621A6682J
		0.01	±5%	5.0	10.5	10.0	7.5	495-1325-ND	.55	4.03	28.75	B32620A6103J
		0.01	±5%	4.0	9.0	13.0	10.0	495-1326-ND	.51	3.75	26.75	B32621A6103J
		0.015	±5%	6.0	12.0	10.3	7.5	495-1327-ND	.66	4.87	34.75	B32620A6153J
		0.022	±5%	6.0	12.0	13.0	10.0	495-1329-ND	.58	4.32	31.73	B32621A6223J
630	250	0.033	±5%	5.0	10.5	18.0	15.0	495-1330-ND	.52	3.85	27.50	B32652A6333J
		0.047	±5%	5.0	10.5	18.0	15.0	495-1331-ND	.55	4.06	29.00	B32652A6473J
		0.10	±5%	7.0	12.5	18.0	15.0	495-1333-ND	.55	4.13	30.32	B32652A6104J
		0.15	±5%	8.5	14.5	18.0	15.0	495-1334-ND	.68	5.06	37.13	B32652A6154J
		0.22	±5%	9.0	17.5	18.0	15.0	495-1335-ND	.71	5.31	39.01	B32652A6224J
1000	250	0.01	±5%	5.0	10.5	18.0	15.0	495-1349-ND	.48	3.54	25.25	B32652A0103J
		0.022	±5%	5.0	10.5	18.0	15.0	495-1352-ND	.52	3.85	27.50	B32652A0223J
		0.033	±5%	6.0	11.0	18.0	15.0	495-1353-ND	.57	4.24	30.25	B32652A0333J
		0.047	±5%	7.0	12.5	18.0	15.0	495-1354-ND	.58	4.32	31.73	B32652A0473J
		0.068	±5%	8.5	14.5	18.0	15.0	495-1355-ND	.61	4.51	33.14	B32652A0683J
		0.10	±5%	9.0	17.5	18.0	15.0	495-1356-ND	.70	5.22	38.31	B32652A0104J
	500	0.0015	±5%	4.0	8.5	10.0	7.5	495-1338-ND	.43	3.15	22.50	B32620A152J
		0.0022	±5%	4.0	8.5	10.0	7.5	495-1339-ND	.44	3.22	23.00	B32620A222J
		0.0022	±10%	4.0	8.5	10.0	7.5	495-2589-ND	.42	3.08	22.00	B32620A222K
		0.0022	±5%	4.0	7.0	13.0	10.0	495-1340-ND	.49	3.64	26.00	B32621A222J
		0.0033	±5%	5.0	10.5	10.0	7.5	495-1343-ND	.46	3.40	24.25	B32620A332J
		0.0033	±5%	4.0	9.0	13.0	10.0	495-1342-ND	.50	3.71	26.50	B32621A332J
		0.0047	±5%	5.0	10.5	10.0	7.5	495-1346-ND	.49	3.64	26.00	B32620A472J
		0.0047	±5%	4.0	9.0	13.0	10.0	495-1344-ND	.58	4.31	30.75	B32621A472J
		0.0068	±5%	6.0	12.0	10.3	7.5	495-1347-ND	.60	4.45	31.75	B32620A682J
		0.0068	±5%	5.0	11.0	13.0	10.0	495-1348-ND	.65	4.76	34.00	B32621A682J
		0.01	±5%	6.0	12.0	13.0	10.0	495-1350-ND	.70	5.15	36.75	B32621A103J
	600	0.00047	±5%	4.0	8.5	10.0	7.5	495-1336-ND	.64	4.37	30.80	B32620J471J
		0.00068	±5%	5.0	10.5	10.0	7.5	495-1337-ND	.53	3.92	28.00	B32620J681J
		0.0022	±5%	5.0	10.5	10.0	7.5	495-1341-ND	.48	3.57	25.50	B32620J222J
1250	500	0.01	±5%	6.0	11.0	18.0	15.0	495-1358-ND	.54	4.00	29.38	B32652A7103J
		0.022	±5%	8.5	14.5	18.0	15.0	495-1360-ND	.64	4.74	34.78	B32652A7223J
		0.033	±5%	9.0	17.5	18.0	15.0	495-1361-ND	.71	5.31	39.01	B32652A7333J
1600	500	0.0033	±5%	5.0	10.5	18.0	15.0	495-1367-ND	.43	3.15	22.50	B32652A1332J
		0.0047	±5%	6.0	11.0	18.0	15.0	495-1369-ND	.46	3.40	24.25	B32652A1472J
		0.0068	±5%	7.0	12.5	18.0	15.0	495-1371-ND	.46	3.42	25.15	B32652A1682J
		0.01	±5%	8.5	14.5	18.0	15.0	495-1373-ND	.58	4.32	31.73	B32652A1103J
		0.015	±5%	9.0	17.5	18.0	15.0	495-1374-ND	.70	5.22	38.31	B32652A1153J
	700	0.0022	±5%	5.0	10.5	18.0	15.0	495-1364-ND	.51	3.81	27.97	B32652J1222J
		0.0033	±5%	6.0	11.0	18.0	15.0	495-1366-ND	.57	4.22	31.02	B32652J1332J
		0.0047	±5%	7.0	12.5	18.0	15.0	495-1368-ND	.61	4.51	33.14	B32652J1472J
		0.0068	±5%	8.5	14.5	18.0	15.0	495-1370-ND	.64	4.74	34.78	B32652J1682J
		0.01	±5%	9.0	17.5	18.0	15.0	495-1372-ND	.71	5.31	39.01	B32652J1103J
2000	700	0.001	±5%	5.0	10.5	18.0	15.0	495-1376-ND	.53	3.92	28.00	B32652A2102J
		0.0015	±5%	6.0	11.0	18.0	15.0	495-1377-ND	.55	4.06	29.00	B32652A2152J
		0.0022	±5%	7.0	12.5	18.0	15.0	495-1378-ND	.59	4.38	31.25	B32652A2222J
		0.0033	±5%	8.5	14.5	18.0	15.0	495-1379-ND	.62	4.59	32.75	B32652A2332J

EMI Suppression Capacitors — Y2, Y1, X2, X1 Series

RoHS COMPLIANT

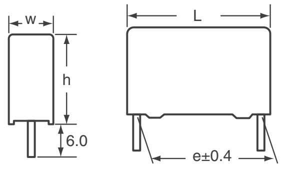

Y2, Y1 and X2 Specifications:

Construction: • Dielectric: Polypropylene (MKP) • Plastic case (UL 94V-0) • Epoxy resin sealing (UL 94V-0) **Features:** • Very small dimensions • Self-healing properties • High Voltage Capability **Terminals:** • Parallel wire leads (lead-free tinned)

X1 Specifications:

Construction: • Plastic case (UL 94V-0) • Epoxy resin sealing (UL 94V-0) **Features:** • Self-healing properties • **Terminals:** • Parallel wire leads (lead-free tinned)

Y2 Technical Data:

• **Maximum Operating Temperature:** *B81122 Series:* 100°C; *B3202x Series:* 110°C • **Maximum Continuous AC Voltage:** *B81122 Series:* 405V, 50/60Hz (305V when e = 10.0mm, 50/60Hz); *B3202x Series:* 480V, 50/60Hz • **Maximum Continuous DC Voltage:** *B81122 Series:* 1000V (1200V when e = 10.0mm); *B3202x Series:* 1500V

Y1 Technical Data:

• **Maximum Operating Temperature:** 100°C • **Maximum Continuous AC Voltage:** 750V (50/60Hz) • **Maximum Continuous DC Voltage:** 3000V

X2 Technical Data:

• **Maximum Operating Temperature:** 125°C (for $C_R \geq 1\mu F$ with A/V/T version) 110°C (for $C_R \geq 1\mu F$ or C/D version) • **Maximum Continuous AC Voltage:** 310V (50/60Hz)

WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
			w	h	L	e		1	10	100	
							Y2 Series				
250	.0068	±20%	6.0	12.0	13.0	10.0	495-1635-ND	.53	3.89	27.75	B81122C1682M
	.015	±20%	7.0	12.5	18.0	15.0	495-1637-ND	.79	5.81	41.50	B81122A1153M
	.047	±20%	7.0	16.0	26.5	22.5	495-1641-ND	1.16	8.54	61.00	B81122A1473M
	.068	±20%	10.5	16.5	26.5	22.5	495-1643-ND	1.42	10.43	74.50	B81122A1683M
300	.01	±20%	5.0	10.5	18.0	15.0	495-3792-ND ***NEW!***	.44	3.26	23.25	B32022A3103M
	.015	±20%	6.0	11.0	18.0	15.0	495-3793-ND ***NEW!***	.48	3.50	25.00	B32022A3153M
	.022	±20%	6.0	12.0	18.0	15.0	495-3794-ND ***NEW!***	.57	4.20	30.00	B32022A3223M
	.033	±20%	8.0	14.0	18.0	15.0	495-3795-ND ***NEW!***	.69	5.11	36.50	B32022A3333M
	.047	±20%	6.0	15.0	26.5	22.5	495-3799-ND ***NEW!***	.80	5.92	42.25	B32023A3473M
	.047	±20%	8.5	14.5	18.0	15.0	495-3796-ND ***NEW!***	.76	5.64	40.25	B32022A3473M
	.068	±20%	7.0	16.0	26.5	22.5	495-3800-ND ***NEW!***	.96	7.07	50.50	B32023A3683M
	.068	±20%	9.0	17.5	18.0	15.0	495-3797-ND ***NEW!***	.81	5.99	42.75	B32022A3683M
	.082	±20%	11.0	18.5	18.0	15.0	495-3798-ND ***NEW!***	.98	7.25	51.75	B32022A3823M
	.10	±20%	8.5	16.5	26.5	22.5	495-3801-ND ***NEW!***	1.04	7.67	54.75	B32023A3104M
	.15	±20%	10.5	18.5	26.5	22.5	495-3802-ND ***NEW!***	1.21	8.93	63.75	B32023A3154M
	.15	±20%	11.0	19.0	31.5	27.5	495-3806-ND ***NEW!***	1.44	10.61	75.75	B32024A3154M
	.22	±20%	11.0	19.0	31.5	27.5	495-3807-ND ***NEW!***	1.72	12.67	90.50	B32024A3224M
	.22	±20%	12.0	22.0	26.5	22.5	495-3803-ND ***NEW!***	1.65	12.18	87.00	B32023A3224M
	.33	±20%	12.0	22.0	41.5	37.5	495-3814-ND ***NEW!***	2.28	16.80	120.00	B32026A3334M
	.33	±20%	13.5	23.0	31.5	27.5	495-3808-ND ***NEW!***	2.19	16.17	115.50	B32024A3334M
	.33	±20%	14.5	29.5	26.5	22.5	495-3804-ND ***NEW!***	2.15	15.82	113.00	B32023A3334M
	.39	±20%	14.5	29.5	26.5	22.5	495-3805-ND ***NEW!***	3.14	23.10	165.00	B32023A3394M
	.47	±20%	14.0	25.0	41.5	37.5	495-3815-ND ***NEW!***	2.83	20.83	148.75	B32026A3474M
	.47	±20%	15.0	24.5	31.5	27.5	495-3809-ND ***NEW!***	2.69	19.85	141.75	B32024A3474M
	.56	±20%	14.0	25.0	41.5	37.5	495-3816-ND ***NEW!***	3.49	25.73	183.75	B32026A3564M
	.56	±20%	16.0	32.0	31.5	27.5	495-3810-ND ***NEW!***	3.33	24.50	175.00	B32024A3564M
	.68	±20%	16.0	28.5	41.5	37.5	495-3817-ND ***NEW!***	3.92	28.88	206.25	B32026A3684M
	.68	±20%	19.0	30.0	31.5	27.5	495-3811-ND ***NEW!***	3.73	27.51	196.50	B32024A3684M
	.82	±20%	16.0	28.5	41.5	37.5	495-3818-ND ***NEW!***	4.75	35.00	250.00	B32026A3824M
	.82	±20%	22.0	36.5	31.5	27.5	495-3812-ND ***NEW!***	4.56	33.60	240.00	B32024A3824M
	1.0	±20%	18.0	32.5	41.5	37.5	495-3819-ND ***NEW!***	5.23	38.50	275.00	B32026A3105M
	1.0	±20%	22.0	36.5	31.5	27.5	495-3813-ND ***NEW!***	4.90	36.09	257.75	B32024A3105M
							Y1 Series				
250	.0010	±20%	5.0	10.5	18.0	15.0	495-1648-ND	.50	3.68	26.25	B81123C1102M
	.0033	±20%	8.5	14.5	18.0	15.0	495-1651-ND	.69	5.11	36.50	B81123C1332M
	.0047	±20%	9.0	17.5	18.0	15.0	495-1652-ND	.85	6.23	44.50	B81123C1472M
250	.0068	±20%	8.5	16.5	26.5	22.5	495-1654-ND	1.43	10.57	75.50	B81123C1682M
	.01	±20%	10.5	16.5	26.5	22.5	495-1655-ND	1.81	13.30	95.00	B81123C1103M
							X2 Series				
305	.01	±20%	4.0	9.0	13.0	10.0	495-2316-ND	.32	2.38	17.00	B32921C3103M
	.022	±20%	4.0	9.0	13.0	10.0	495-2317-ND	.32	2.38	17.00	B32921C3223M
	.047	±20%	6.0	12.0	13.0	10.0	495-1614-ND	.41	2.81	19.80	B32921A2473M
	.068	±20%	6.0	12.0	13.0	10.0	495-1615-ND	.41	2.81	19.80	B32921A2683M
	.10	±20%	6.0	11.0	18.0	15.0	495-1617-ND	.34	2.52	18.00	B32922A2104M
	.10	±20%	6.0	12.0	13.0	10.0	495-2318-ND	.36	2.66	19.00	B32921C3104M
	.10	±20%	5.0	10.5	18.0	15.0	495-2319-ND	.32	2.38	17.00	B32922C3104M
	.10	±20%	6.0	12.0	13.0	10.0	495-1881-ND	.46	3.12	22.00	B32921A2104M
	.15	±20%	7.0	12.5	18.0	15.0	495-1618-ND	.44	3.22	23.00	B32922A2154M
	.22	±20%	7.0	12.5	18.0	15.0	495-2320-ND	.48	3.54	25.25	B32922C3224M
	.22	±20%	8.0	14.0	18.0	15.0	495-1882-ND	.57	4.17	29.75	B32922T2224M
	.22	±20%	8.5	14.5	18.0	15.0	495-1619-ND	.51	3.75	26.75	B32922A2224M
	.33	±20%	8.0	14.0	18.0	15.0	495-2321-ND	.57	4.24	30.25	B32922C3334M
	.33	±20%	9.0	17.5	18.0	15.0	495-1620-ND	.60	4.45	31.75	B32922A2334M
	.33	±20%	8.5	16.5	26.5	22.5	495-1621-ND	.84	6.24	45.83	B32923A2334M
	.47	±20%	9.0	17.5	18.0	15.0	495-2322-ND	.70	5.18	37.00	B32922C3474M
	.47	±20%	8.5	16.5	26.5	22.5	495-1622-ND	.96	7.17	52.64	B32923A2474M
	.68	±20%	11.0	18.5	18.0	15.0	495-2323-ND	1.04	7.63	54.50	B32922C3684M
	.68	±20%	10.5	18.5	26.5	22.5	495-1623-ND	1.10	8.16	59.93	B32923A2684M
	1.0	±20%	12.0	22.0	26.5	22.5	495-1883-ND	1.15	8.61	64.58	B32923A2105M
	1.0	±20%	11.0	20.5	26.5	22.5	495-2324-ND	1.17	8.74	64.16	B32923C3105M
	1.0	±10%	11.0	21.0	31.5	27.5	495-2074-ND	1.29	9.66	72.45	B32924A2105K
	1.0	±20%	11.0	21.0	31.5	27.5	495-1624-ND	1.45	10.71	76.50	B32924A2105M
	1.5	±10%	14.0	24.5	31.5	27.5	495-2590-ND	1.95	14.35	102.50	B32924B2155K
	1.5	±20%	12.0	22.0	26.5	22.5	495-1884-ND	1.40	10.53	78.98	B32923C3155M
	1.5	±10%	12.5	21.5	31.5	27.5	495-1886-ND	1.56	11.67	87.53	B32924C3155K
	2.2	±20%	11.0	21.0	31.5	27.5	495-3822-ND ***NEW!***	2.59	19.11	136.50	B32924E3225M
	2.2	±20%	12.0	22.0	26.5	22.5	495-3820-ND ***NEW!***	2.54	18.74	133.88	B32923E3225M
	2.2	±10%	12.0	22.0	42.0	37.5	495-3833-ND ***NEW!***	4.40	32.41	231.53	B32926E3225K
	2.2	±10%	12.5	21.5	31.5	27.5	495-3823-ND ***NEW!***	2.72	20.07	143.33	B32924F3225K
	2.2	±20%	14.5	29.5	26.5	22.5	495-1885-ND	1.71	12.93	97.60	B32923C3225M

(Continued)

EPCOS

EMI Suppression Capacitors

Y2, Y1, X2, X1 Series *(Cont.)*

WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
			w	h	L	e					
305	2.2	±20%	14.0	24.5	31.5	27.5	495-1887-ND	1.77	13.44	101.40	B32924C3225M
	2.2	±20%	14.0	25.0	41.5	37.5	495-1892-ND	2.66	20.17	152.20	B32926C3225M
	2.2	±20%	18.0	27.5	31.5	27.5	495-1626-ND	2.53	18.62	133.00	B32924A2225M
	3.3	±20%	12.0	22.0	42.0	37.5	495-3834-ND ***NEW!***	4.89	36.02	257.25	B32926E3335M
	3.3	±20%	14.0	24.5	31.5	27.5	495-3824-ND ***NEW!***	3.59	26.46	189.00	B32924E3335M
	3.3	±10%	14.5	29.5	26.5	22.5	495-3821-ND ***NEW!***	3.77	27.78	198.45	B32923E3335K
	3.3	±10%	15.0	24.0	31.5	27.5	495-3825-ND ***NEW!***	3.77	27.78	198.45	B32924F3335K
	3.3	±20%	16.0	28.5	41.5	37.5	495-1893-ND	3.35	25.33	191.20	B32926C3335M
	3.3	±20%	18.0	27.5	31.5	27.5	495-1888-ND	2.46	18.60	140.40	B32924C3335M
	3.3	±20%	18.0	32.5	41.5	37.5	495-1627-ND	3.48	26.37	199.00	B32926A2335M
	4.7	±20%	14.0	25.0	42.0	37.5	495-3835-ND ***NEW!***	6.48	47.78	341.25	B32926E3475M
	4.7	±10%	16.0	32.0	31.5	27.5	495-3827-ND ***NEW!***	5.24	38.59	275.63	B32924F3475K
	4.7	±20%	18.0	27.5	31.5	27.5	495-3826-ND ***NEW!***	4.99	36.75	262.50	B32924E3475M
	4.7	±20%	18.0	33.0	31.5	27.5	495-1889-ND	3.41	25.84	195.00	B32924C3475M
	4.7	±20%	18.0	32.5	41.5	37.5	495-1894-ND	4.44	33.60	253.60	B32926C3475M
	4.7	±20%	20.0	39.5	41.5	37.5	495-1628-ND	4.64	35.14	265.20	B32926A2475M
	5.6	±20%	18.0	32.5	41.5	37.5	495-1895-ND	5.46	41.34	312.00	B32926C3565M
	5.6	±10%	18.0	33.0	31.5	27.5	495-3829-ND ***NEW!***	6.28	46.31	330.75	B32924F3565K
	5.6	±20%	22.0	36.5	31.5	27.5	495-1890-ND	4.10	31.01	234.00	B32924C3565M
	6.8	±10%	18.0	32.5	42.0	37.5	495-3836-ND ***NEW!***	9.95	73.32	523.69	B32926E3685K
	6.8	±20%	20.0	39.5	41.5	37.5	495-1896-ND	6.49	49.10	370.60	B32926C3685M
	6.8	±20%	21.0	31.0	31.5	27.5	495-3830-ND ***NEW!***	9.48	69.83	498.75	B32924E3685M
	6.8	±10%	22.0	36.5	31.5	27.5	495-3831-ND ***NEW!***	9.95	73.32	523.69	B32924F3685K
	8.2	±20%	22.0	36.5	31.5	27.5	495-3832-ND ***NEW!***	10.47	77.18	551.25	B32924E3825M
	8.2	±10%	28.0	42.5	41.5	37.5	495-1897-ND	7.53	56.98	430.00	B329526C3825K
	10	±10%	20.0	39.5	42.0	37.5	495-3837-ND ***NEW!***	16.63	122.50	875.00	B32926E3106K
	10	±20%	28.0	42.5	41.5	37.5	495-1891-ND	8.87	67.18	507.00	B32926C3106M
	15	±10%	28.0	37.0	42.0	37.5	495-3838-ND ***NEW!***	26.60	196.00	1400.00	B32926E3156K
	20	±20%	28.0	42.5	42.0	37.5	495-3839-ND ***NEW!***	34.58	254.80	1820.00	B32926E3206M
	20	±10%	30.0	45.0	42.0	37.5	495-3840-ND ***NEW!***	38.57	284.20	2030.00	B32926F3206K
	25	±10%	30.0	45.0	57.5	52.5	495-3841-ND ***NEW!***	49.88	367.50	2625.00	B32928E3256K
	30	±10%	30.0	45.0	57.5	52.5	495-3842-ND ***NEW!***	59.85	441.00	3150.00	B32928E3306K
	40	±10%	35.0	50.0	57.5	52.5	495-3843-ND ***NEW!***	79.80	588.00	4200.00	B32928E3406K
	45	±20%	35.0	50.0	57.5	52.5	495-3844-ND ***NEW!***	85.12	627.20	4480.00	B32928E3456M

WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
			w	h	L	e					
X1 Series											
330	.010	±20%	4.0	9.0	13.0	10.0	495-3236-ND	.41	3.06	22.95	B32911A3103M
	.022	±20%	5.0	11.0	13.0	10.0	495-3237-ND	.41	3.09	23.18	B32911B3223M
	.033	±20%	6.0	12.0	13.0	10.0	495-3238-ND	.42	3.18	23.85	B32911A3333M
	.022	±20%	5.0	10.5	18.0	15.0	495-3239-ND	.46	3.42	25.65	B32912A3223M
	.033	±20%	5.0	10.5	18.0	15.0	495-3240-ND	.46	3.42	25.65	B32912A3333M
	.047	±20%	5.0	10.5	18.0	15.0	495-3241-ND	.47	3.51	26.33	B32912A3473M
	.068	±20%	6.0	11.0	18.0	15.0	495-3242-ND	.48	3.57	26.78	B32912A3683M
	.10	±20%	7.0	12.5	18.0	15.0	495-3243-ND	.48	3.63	27.23	B32912A3104M
	.15	±20%	7.0	12.5	18.0	15.0	495-3244-ND	.61	4.56	34.20	B32912B3154M
	.15	±20%	8.5	14.5	18.0	15.0	495-3245-ND	.61	4.56	34.20	B32912A3154M
	.22	±20%	8.5	14.5	18.0	15.0	495-3246-ND	.68	5.13	38.48	B32912B3224M
	.22	±20%	9.0	17.5	18.0	15.0	495-3247-ND	.68	5.13	38.48	B32912A3224M
	.33	±20%	9.0	17.5	18.0	15.0	495-3248-ND	.78	5.85	43.88	B32912B3334M
	.15	±20%	6.0	15.0	26.5	22.5	495-3249-ND	.94	7.02	52.65	B32913A3154M
	.22	±20%	7.0	16.0	26.5	22.5	495-3250-ND	1.04	7.80	58.50	B32913A3224M
	.33	±20%	8.5	16.5	26.5	22.5	495-3251-ND	1.23	9.21	69.08	B32913A3334M
	.47	±20%	10.5	16.5	26.5	22.5	495-3252-ND	1.47	11.04	82.80	B32913A3474M
	.47	±20%	11.0	21.0	31.5	27.5	495-3253-ND	1.59	11.94	89.55	B32914A3474M
	.68	±20%	11.0	21.0	31.5	27.5	495-3254-ND	1.70	12.75	95.63	B32914B3684M
	1.0	±20%	13.5	23.0	31.5	27.5	495-3255-ND	1.82	13.68	102.60	B32914A3105M
	1.5	±20%	18.0	27.5	31.5	27.5	495-3256-ND	2.31	17.31	129.83	B32914A3155M
	2.2	±20%	19.0	30.0	31.5	27.5	495-3257-ND	3.16	23.70	177.75	B32914A3225M
	3.3	±20%	18.0	32.5	41.5	37.5	495-3258-ND	6.64	49.80	373.50	B32916A3335M
	4.7	±20%	20.0	39.5	41.5	37.5	495-3259-ND	10.24	76.80	576.00	B32916A3475M
	6.8	±20%	28.0	42.5	41.5	37.5	495-3260-ND	12.68	95.10	713.25	B32916A3685M
440	.010	±20%	5.0	10.5	18.0	15.0	495-1656-ND	1.45	10.71	76.50	B81141C1103M
	.022	±20%	7.0	12.5	18.0	15.0	495-1657-ND	1.59	11.73	83.75	B81141C1223M
	.033	±20%	8.5	14.5	18.0	15.0	495-1658-ND	1.73	12.78	91.25	B81141C1333M
	.047	±20%	9.0	17.5	18.0	15.0	495-1659-ND	1.94	14.32	102.25	B81141C1473M
	.068	±20%	8.5	16.5	26.5	22.5	495-1660-ND	2.22	16.38	117.00	B81141C1683M
	.10	±20%	10.5	16.5	26.5	22.5	495-1661-ND	2.73	20.13	143.75	B81141C1104M
	.15	±20%	11.0	20.5	26.5	22.5	495-1662-ND	2.99	22.05	157.50	B81141C1154M
	.22	±20%	12.5	21.5	31.5	27.5	495-1663-ND	4.29	31.64	226.00	B81141C1224M
	.33	±20%	14.0	24.5	31.5	27.5	495-1664-ND	5.48	40.36	288.25	B81141C1334M
	.47	±20%	18.0	27.5	31.5	27.5	495-1665-ND	5.62	42.53	321.00	B81141C1474M

CombiSuppressor — PET Film Capacitor

with Integrated Varistor

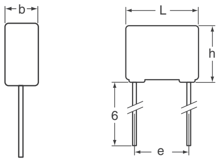

Features: With the CombiSuppressor series, Epcos has developed an innovative solution for EMI suppression in DC motors in motor vehicles. The CombiSuppressor comprises a film capacitor and a multilayer ceramic varistor connected in parallel in a plastic case. This packaging technology offers mechanical protection for the components and facilitates automatic picking and placement.

Construction: • Dielectric: Metallized polyethylene teraphthalate • Stacked-film capacitor technology • Plastic case (UL 94V-0) • Epoxy resin sealing • SIOV metal oxide varistor

Specifications: • Operating Temperature Range: -55°C ~ 125°C, Meets ISO 7631 • Climatic category (IEC 60068-1): 55/125/56

Cap. (µF)	Cap. Rated Voltage	Clamp Voltage	iMax 8/20µs (A)	Dimensions (mm)				Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
				b	h	L	e					
0.47	22	44	200	4.5	9.5	7.8	5.0	495-3076-ND	1.03	7.68	56.40	B32529V2474J
1.0	22	44	200	5.0	10.0	7.8	5.0	495-3078-ND	1.10	8.16	59.93	B32529V2105J
0.47	26	54	200	4.5	9.5	7.8	5.0	495-3080-ND	1.12	8.32	61.10	B32529V3474J
0.68	26	54	200	4.5	9.5	7.8	5.0	495-3081-ND	1.12	8.32	61.10	B32529V3684J
1.0	26	54	200	5.0	10.0	7.8	5.0	495-3082-ND	1.16	8.64	63.45	B32529V3105J
0.47	31	65	200	4.5	9.5	7.8	5.0	495-3084-ND	1.20	8.96	65.80	B32529V9474J
0.68	31	65	200	4.5	9.5	7.8	5.0	495-3085-ND	1.20	8.96	65.80	B32529V9684J
1.0	31	65	200	5.0	10.0	7.8	5.0	495-3086-ND	1.20	8.96	65.80	B32529V9105J

Cap. (µF)	Cap. Rated Voltage	Clamp Voltage	iMax 8/20µs (A)	Dimensions (mm)				Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
				b	h	L	e					
0.68	38	77	200	4.5	9.5	7.8	5.0	495-3089-ND	1.25	9.28	68.15	B32529V5684J
1.0	38	77	200	5.0	10.0	7.8	5.0	495-3090-ND	1.29	9.60	70.50	B32529V5105J
0.68	45	90	100	4.5	9.5	7.8	5.0	495-3093-ND	1.33	9.92	72.85	B32529V7684J
1.0	45	90	100	5.0	10.0	7.8	5.0	495-3094-ND	1.35	10.08	74.03	B32529V7105J
0.68	31	65	200	5.0	11.0	13.0	10.0	495-3105-ND	1.23	9.12	66.98	B32521V9684J
1.0	31	65	200	5.0	11.0	13.0	10.0	495-3106-ND	1.23	9.12	66.98	B32521V9105J
1.5	31	65	200	6.0	12.0	13.0	10.0	495-3107-ND	1.29	9.60	70.50	B32521V9155J

Metallized Polyester Film Capacitors

MKT Series

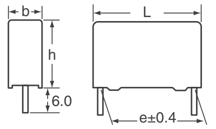

Construction: • Dielectric: polyethylene terephthalate (polyester) • Stacked and wound capacitor technology • Plastic case (UL 94V-0) • Epoxy resin sealing **Features:** • High pulse strength • High contact reliability **Terminals:** • Parallel wire leads, tinned **Technical Data:** • Lower category temperature T_{min}: -55°C • Upper category temperature T_{max}: 100°C (125°C for 1000h and V_C= $0.5V_R$) • Service life: 200,000 hours

Bulk

WV (DC)	WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
				b	h	L	e					
50	32	0.68	±5%	4.5	9.5	7.3	5.0	495-1117-ND	.35	2.58	18.40	B32529C5684J
		3.3	±5%	7.8	13.0	7.8	5.0	495-1090-ND	1.79	13.57	102.40	B32529D5335J
63	40	0.001	±5%	2.5	6.5	7.2	5.0	495-1091-ND	.16	1.24	8.37	B32529C102J
		0.001	±10%	2.5	6.5	7.2	5.0	495-2456-ND	.12	.91	6.50	B32529C102K
		0.0015	±5%	2.5	6.5	7.2	5.0	495-1092-ND	.16	1.24	8.37	B32529C152J
		0.0022	±5%	2.5	6.5	7.2	5.0	495-1093-ND	.16	1.24	8.37	B32529C222J
		0.0022	±10%	2.5	6.5	7.2	5.0	495-2518-ND	.12	.91	6.50	B32529C222K
		0.0033	±5%	2.5	6.5	7.2	5.0	495-1094-ND	.16	1.24	8.37	B32529C332J
		0.0047	±5%	2.5	6.5	7.2	5.0	495-1095-ND	.16	1.24	8.37	B32529C472J
		0.0047	±10%	2.5	6.5	7.2	5.0	495-2555-ND	.12	.91	6.50	B32529C472K
		0.0068	±5%	2.5	6.5	7.2	5.0	495-1096-ND	.16	1.24	8.37	B32529C682J
		0.01	±5%	2.5	6.5	7.2	5.0	495-1097-ND	.16	1.24	8.37	B32529C103J
		0.01	±10%	2.5	6.5	7.2	5.0	495-2460-ND	.12	.91	6.50	B32529C103K
		0.015	±5%	2.5	6.5	7.2	5.0	495-1098-ND	.16	1.24	8.37	B32529C153J
		0.015	±10%	2.5	6.5	7.2	5.0	495-2507-ND	.12	.91	6.50	B32529C153K
		0.022	±5%	2.5	6.5	7.2	5.0	495-1099-ND	.16	1.24	8.37	B32529C223J
		0.022	±10%	2.5	6.5	7.2	5.0	495-2520-ND	.12	.91	6.50	B32529C223K
		0.033	±5%	2.5	6.5	7.2	5.0	495-1100-ND	.16	1.24	8.37	B32529C333J
		0.033	±10%	2.5	6.5	7.2	5.0	495-2545-ND	.12	.91	6.50	B32529C333K
		0.047	±5%	2.5	6.5	7.2	5.0	495-1101-ND	.16	1.24	8.37	B32529C473J
		0.047	±10%	2.5	6.5	7.2	5.0	495-2558-ND	.12	.91	6.50	B32529C473K
		0.068	±5%	2.5	6.5	7.2	5.0	495-1102-ND	.16	1.24	8.37	B32529C683J
		0.068	±10%	2.5	6.5	7.2	5.0	495-2580-ND	.12	.91	6.50	B32529C683K
		0.10	±5%	2.5	7.0	10.0	7.5	495-1104-ND	.32	2.18	15.40	B32520C104J
		0.10	±5%	2.5	6.5	7.2	5.0	495-1103-ND	.16	1.24	8.37	B32529C104J
		0.15	±5%	2.5	6.5	7.2	5.0	495-1105-ND	.20	1.52	10.23	B32529C154J

WV (DC)	WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
				b	h	L	e					
63	40	0.10	±10%	2.5	6.5	7.2	5.0	495-2465-ND	.12	.91	6.50	B32529C104K
		0.15	±10%	2.5	6.5	7.2	5.0	495-2510-ND	.15	1.09	7.75	B32529C154K
		0.22	±5%	2.5	7.0	10.0	7.5	495-1107-ND	.40	2.73	19.25	B32520C224J
		0.22	±5%	2.5	6.5	7.2	5.0	495-1106-ND	.22	1.66	11.16	B32529C224J
		0.22	±10%	2.5	6.5	7.2	5.0	495-2524-ND	.16	1.19	8.50	B32529C224K
		0.33	±5%	3.0	6.5	7.2	5.0	495-1108-ND	.33	2.26	15.95	B32529C334J
		0.33	±10%	3.0	6.5	7.2	5.0	495-2548-ND	.26	1.93	13.75	B32529C334K
		0.47	±5%	3.0	8.0	10.0	7.5	495-1112-ND	.45	3.29	23.50	B32520C474J
		0.47	±5%	4.0	7.0	13.0	10.0	495-1111-ND	.45	3.29	23.50	B32521C474J
		0.47	±5%	3.5	8.0	7.2	5.0	495-1110-ND	.36	2.46	17.33	B32529C474J
		0.47	±10%	3.5	8.0	7.2	5.0	495-2561-ND	.29	2.10	15.00	B32529C474K
		0.68	±5%	4.0	8.5	10.0	7.5	495-1115-ND	.64	4.73	33.75	B32520C684J
		0.68	±5%	4.0	7.0	13.0	10.0	495-1113-ND	.64	4.73	33.75	B32521C684J
		0.68	±5%	5.0	10.5	18.0	15.0	495-1116-ND	.75	5.53	39.50	B32522C684J
		0.68	±5%	4.5	9.5	7.3	5.0	495-1114-ND	.41	3.01	21.50	B32529C684J
		1.0	±5%	5.0	10.5	10.0	7.5	495-1121-ND	.69	5.12	37.60	B32520C105J
		1.0	±5%	4.0	9.0	13.0	10.0	495-1118-ND	.69	5.12	37.60	B32521C105J
		1.0	±5%	5.0	10.5	18.0	15.0	495-1120-ND	.78	5.82	42.77	B32522C105J
		1.0	±5%	4.5	9.5	7.3	5.0	495-1119-ND	.44	3.22	23.00	B32529C105J
		1.0	±10%	4.5	9.5	7.3	5.0	495-2470-ND	.42	3.08	22.00	B32529C105K
		1.5	±5%	5.0	10.5	10.0	7.5	495-1124-ND	1.00	7.46	54.76	B32520C155J
		1.5	±5%	5.0	10.5	18.0	15.0	495-1123-ND	1.14	8.48	62.28	B32522C155J
		1.5	±5%	6.0	10.5	7.5	5.0	495-1122-ND	1.06	7.87	57.81	B32529C155J
		1.5	±10%	6.0	10.5	7.5	5.0	495-2512-ND	1.11	8.19	58.50	B32529C155K
		2.2	±5%	6.0	12.0	10.3	7.5	495-1128-ND	1.38	10.32	77.40	B32520C225J
		2.2	±5%	5.0	11.0	13.0	10.0	495-1125-ND	1.38	10.32	77.40	B32521C225J

(Continued)

EPCOS

Metallized Polyester Film Capacitors

MKT Series *(Cont.)*

WV (DC)	WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
63	40	2.2	±5%	5.0	10.5	18.0	15.0	495-1126-ND	1.31	9.84	73.80	B32522C225J
		2.2	±5%	7.8	13.0	7.8	5.0	495-1127-ND	1.27	9.51	71.33	B32529D225J
		3.3	±5%	6.0	12.0	13.0	10.0	495-1129-ND	1.84	13.80	103.50	B32521C335J
		3.3	±5%	6.0	11.0	18.0	15.0	495-1130-ND	1.87	14.01	105.08	B32522C335J
		4.7	±5%	7.0	12.5	18.0	15.0	495-1131-ND	2.01	15.18	114.60	B32522C475J
100	63	0.001	±5%	2.5	6.5	7.2	5.0	495-1132-ND	.16	1.24	8.37	B32529C1102J
		0.0015	±5%	2.5	6.5	7.2	5.0	495-1133-ND	.16	1.24	8.37	B32529C1152J
		0.0022	±5%	2.5	6.5	7.2	5.0	495-1134-ND	.16	1.24	8.37	B32529C1222J
		0.0022	10%	2.5	6.5	7.2	5.0	495-2486-ND	.12	.91	6.50	B32529C1222K
		0.0033	±5%	2.5	6.5	7.2	5.0	495-1135-ND	.16	1.24	8.37	B32529C1332J
		0.0047	±5%	2.5	6.5	7.2	5.0	495-1136-ND	.16	1.24	8.37	B32529C1472J
		0.0068	±5%	2.5	6.5	7.2	5.0	495-1137-ND	.16	1.24	8.37	B32529C1682J
		0.01	±5%	2.5	6.5	7.2	5.0	495-1138-ND	.16	1.24	8.37	B32529C1103J
		0.01	±10%	2.5	6.5	7.2	5.0	495-2477-ND	.12	.91	6.50	B32529C1103K
		0.015	±5%	2.5	6.5	7.2	5.0	495-1139-ND	.16	1.24	8.37	B32529C1153J
		0.022	±5%	2.5	6.5	7.2	5.0	495-1140-ND	.16	1.24	8.37	B32529C1223J
		0.022	±10%	2.5	6.5	7.2	5.0	495-2489-ND	.12	.91	6.50	B32529C1223K
		0.033	±5%	2.5	6.5	7.2	5.0	495-1141-ND	.16	1.24	8.37	B32529C1333J
		0.033	±10%	2.5	6.5	7.2	5.0	495-2495-ND	.12	.91	6.50	B32529C1333K
		0.047	±5%	2.5	7.0	10.0	7.5	495-1144-ND	.28	2.16	14.57	B32520C1473J
		0.047	±5%	2.5	6.5	7.2	5.0	495-1143-ND	.16	1.24	8.37	B32529C1473J
		0.047	±10%	2.5	6.5	7.2	5.0	495-2500-ND	.12	.91	6.50	B32529C1473K
		0.068	±5%	2.5	6.5	7.2	5.0	495-1146-ND	.16	1.24	8.37	B32529C1683J
		0.10	±5%	2.5	7.0	10.0	7.5	495-1148-ND	.32	2.18	15.40	B32520C1104J
		0.10	±10%	2.5	7.0	10.0	7.5	495-2423-ND	.25	1.86	13.25	B32520C1104K
		0.10	±5%	4.0	7.0	13.0	10.0	495-1149-ND	.35	2.38	16.78	B32521C1104J
		0.10	±5%	2.5	6.5	7.2	5.0	495-1147-ND	.16	1.24	8.37	B32529C1104J
		0.10	±10%	2.5	6.5	7.2	5.0	495-2481-ND	.12	.91	6.50	B32529C1104K
		0.15	±5%	3.0	8.0	10.0	7.5	495-1150-ND	.37	2.50	17.60	B32520C1154J
		0.15	±5%	3.0	6.5	7.2	5.0	495-1151-ND	.26	1.79	12.65	B32529C1154J
		0.22	±5%	3.0	8.0	10.0	7.5	495-1153-ND	.43	2.89	20.35	B32520C1224J
		0.22	±10%	3.0	8.0	10.0	7.5	495-2425-ND	.33	2.45	17.50	B32520C1224K
		0.22	±5%	4.0	7.0	13.0	10.0	495-1154-ND	.47	3.20	22.55	B32521C1224J
		0.22	±10%	4.0	7.0	13.0	10.0	495-2436-ND	.37	2.73	19.50	B32521C1224K
		0.22	±5%	3.5	8.0	7.2	5.0	495-1155-ND	.28	1.87	13.20	B32529C1224J
		0.22	±10%	3.5	8.0	7.2	5.0	495-2492-ND	.22	1.61	11.50	B32529C1224K
		0.33	±5%	4.0	8.5	10.0	7.5	495-1156-ND	.43	3.15	22.50	B32520C1334J
		0.33	±5%	4.0	7.0	13.0	10.0	495-1159-ND	.43	3.19	22.75	B32521C1334J
		0.33	±5%	5.0	10.5	18.0	15.0	495-1157-ND	.70	5.15	36.75	B32522C1334J
		0.33	±5%	3.5	8.0	7.2	5.0	495-1158-ND	.37	2.50	17.60	B32529C1334J
		0.47	±5%	5.0	10.5	10.0	7.5	495-1162-ND	.50	3.71	26.50	B32520C1474J
		0.47	±5%	4.0	9.0	13.0	10.0	495-1163-ND	.55	4.03	28.75	B32521C1474J
		0.47	±5%	5.0	10.5	18.0	15.0	495-1161-ND	.72	5.29	37.75	B32522C1474J
		0.47	±5%	4.5	9.5	7.3	5.0	495-1160-ND	.34	2.49	17.75	B32529C1474J
		0.47	±10%	4.5	9.5	7.3	5.0	495-2503-ND	.32	2.38	17.00	B32529C1474K
		0.68	±5%	6.0	12.0	10.3	7.5	495-1165-ND	.66	4.83	34.50	B32520C1684J
		0.68	±5%	5.0	11.0	13.0	10.0	495-1164-ND	.67	4.90	35.00	B32521C1684J
		0.68	±5%	5.0	10.5	18.0	15.0	495-1166-ND	.71	5.28	38.78	B32522C1684J
		0.68	±10%	6.0	10.5	7.5	5.0	495-2515-ND	.51	3.75	26.75	B32529C1684K
		1.0	±5%	6.0	12.0	13.0	10.0	495-1167-ND	.86	6.43	47.24	B32521C1105J
		1.0	±5%	5.0	10.5	18.0	15.0	495-1168-ND	.88	6.53	47.94	B32522C1105J
		1.0	±10%	5.0	10.5	18.0	15.0	495-2448-ND	.92	6.79	48.50	B32522C1105K
		1.0	±5%	7.8	13.0	7.8	5.0	495-1169-ND	.83	6.21	45.59	B32529D1105J
		1.5	±5%	6.0	11.0	18.0	15.0	495-1171-ND	1.13	8.42	61.81	B32522C1155J
		2.2	±5%	7.0	12.5	18.0	15.0	495-1172-ND	1.46	10.95	82.13	B32522C1225J
		3.3	±5%	8.5	14.5	18.0	15.0	495-1173-ND	2.02	15.18	113.85	B32522C1335J
250	160	0.001	±5%	2.5	6.5	7.2	5.0	495-1174-ND	.17	1.29	8.68	B32529C3102J
		0.0022	±5%	2.5	6.5	7.2	5.0	495-1176-ND	.17	1.29	8.68	B32529C3222J
		0.0022	±10%	2.5	6.5	7.2	5.0	495-2537-ND	.13	.95	6.75	B32529C3222K
		0.0033	±5%	2.5	6.5	7.2	5.0	495-1177-ND	.17	1.29	8.68	B32529C3332J
		0.0047	±5%	2.5	6.5	7.2	5.0	495-1178-ND	.17	1.29	8.68	B32529C3472J
		0.0068	±5%	2.5	6.5	7.2	5.0	495-1179-ND	.17	1.29	8.68	B32529C3682J
		0.01	±5%	2.5	6.5	7.2	5.0	495-1180-ND	.17	1.29	8.68	B32529C3103J
		0.01	±10%	2.5	6.5	7.2	5.0	495-2527-ND	.13	.95	6.75	B32529C3103K
		0.015	±5%	2.5	7.0	10.0	7.5	495-1181-ND	.29	2.21	14.88	B32520C3153J
		0.015	±5%	2.5	6.5	7.2	5.0	495-1182-ND	.17	1.29	8.68	B32529C3153J
		0.022	±5%	2.5	7.0	10.0	7.5	495-1184-ND	.29	2.21	14.88	B32520C3223J
		0.022	±10%	2.5	7.0	10.0	7.5	495-2428-ND	.22	1.61	11.50	B32520C3223K
		0.022	±5%	2.5	6.5	7.2	5.0	495-1183-ND	.17	1.29	8.68	B32529C3223J
		0.022	±10%	2.5	6.5	7.2	5.0	495-2539-ND	.13	.95	6.75	B32529C3223K
		0.033	±5%	2.5	7.0	10.0	7.5	495-1186-ND	.28	1.87	13.20	B32520C3333J
		0.033	±5%	3.0	6.5	7.2	5.0	495-1187-ND	.23	1.79	12.09	B32529C3333J
		0.033	±10%	3.0	6.5	7.2	5.0	495-2543-ND	.18	1.30	9.25	B32529C3333K
		0.047	±5%	2.5	7.0	10.0	7.5	495-1188-ND	.29	1.95	13.75	B32520C3473J
		0.047	±5%	4.0	7.0	13.0	10.0	495-1189-ND	.33	2.22	15.68	B32521C3473J
		0.047	±5%	3.5	8.0	7.2	5.0	495-1190-ND	.24	1.84	12.40	B32529C3473J
		0.047	±10%	3.5	8.0	7.0	5.0	495-2552-ND	.18	1.33	9.50	B32529C3473K
		0.068	±5%	4.0	7.0	13.0	10.0	495-1193-ND	.35	2.38	16.78	B32521C3683J
		0.068	±5%	4.5	9.5	7.3	5.0	495-1192-ND	.24	1.64	11.55	B32529C3683J
		0.10	±5%	4.0	8.5	10.0	7.5	495-1197-ND	.35	2.34	16.50	B32520C3104J
		0.10	±10%	4.0	8.5	10.0	7.5	495-2426-ND	.27	2.00	14.25	B32520C3104K
		0.10	±5%	4.0	7.0	13.0	10.0	495-1194-ND	.36	2.46	17.33	B32521C3104J
		0.10	±10%	4.0	7.0	13.0	10.0	495-2437-ND	.29	2.10	15.00	B32521C3104K
		0.10	±5%	5.0	10.5	18.0	15.0	495-1195-ND	.48	3.57	25.50	B32522C3104J
		0.10	±5%	4.5	9.5	7.3	5.0	495-1196-ND	.29	1.95	13.75	B32529C3104J
		0.10	±10%	4.5	9.5	7.3	5.0	495-2532-ND	.23	1.68	12.00	B32529C3104K
		0.15	±5%	4.0	9.0	13.0	10.0	495-1201-ND	.49	3.35	23.65	B32521C3154J
		0.15	±5%	5.0	10.5	18.0	15.0	495-1198-ND	.50	3.71	26.50	B32522C3154J
		0.15	±5%	5.0	10.0	7.5	5.0	495-1200-ND	.38	2.57	18.15	B32529C3154J
		0.15	±10%	5.0	10.0	7.5	5.0	495-2535-ND	.30	2.21	15.75	B32529C3154K
		0.22	±5%	5.0	11.0	13.0	10.0	495-1203-ND	.48	3.50	25.00	B32521C3224J
		0.22	±10%	5.0	11.0	13.0	10.0	495-2439-ND	.46	3.36	24.00	B32521C3224K
		0.22	±5%	5.0	10.5	18.0	15.0	495-1202-ND	.50	3.71	26.50	B32522C3224J
		0.22	±5%	7.8	13.0	7.8	5.0	495-1204-ND	.46	3.40	24.25	B32529D3224J
		0.33	±5%	5.0	11.0	13.0	10.0	495-1206-ND	.56	4.10	29.25	B32521C3334J
		0.33	±5%	5.0	10.5	18.0	15.0	495-1205-ND	.57	4.24	30.25	B32522C3334J
		0.47	±5%	6.0	12.0	13.0	10.0	495-1208-ND	.72	5.29	37.75	B32521C3474J
		0.47	±10%	6.0	12.0	13.0	10.0	495-2440-ND	.68	5.04	36.00	B32521C3474K
		0.47	±5%	6.0	11.0	18.0	15.0	495-1207-ND	.72	5.29	37.75	B32522C3474J
		0.68	±5%	7.0	12.5	18.0	15.0	495-1209-ND	.81	6.05	44.42	B32522C3684J
		1.0	±5%	8.5	14.5	18.0	15.0	495-1210-ND	.87	6.50	47.71	B32522C3105J
		1.0	±10%	8.5	14.5	18.0	15.0	495-2450-ND	.92	6.76	48.25	B32522C3105K
		1.0	±5%	8.5	14.5	18.0	15.0	495-1211-ND	.77	5.70	41.83	B32522N3105J
		1.5	±10%	9.0	17.5	18.0	15.0	495-2451-ND	1.30	9.56	68.25	B32522C3155K
		3.3	±5%	11.0	20.5	26.5	22.5	495-2454-ND	2.33	17.19	122.75	B32523Q3335J
400	200	0.001	±5%	2.5	7.0	10.0	7.5	495-1212-ND	.29	2.21	14.88	B32520C6102J
		0.001	±5%	2.5	6.5	7.2	5.0	495-1213-ND	.18	1.38	9.30	B32529C6102J
		0.001	±10%	2.5	6.5	7.2	5.0	495-2564-ND	.14	1.02	7.25	B32529C6102K
		0.0022	±5%	2.5	7.0	10.0	7.5	495-1216-ND	.29	2.21	14.88	B32520C6222J
400	200	0.0022	±5%	2.5	6.5	7.2	5.0	495-1217-ND	.18	1.38	9.30	B32529C6222J
		0.0022	±10%	2.5	6.5	7.2	5.0	495-2573-ND	.14	1.02	7.25	B32529C6222K
		0.0033	±5%	2.5	7.0	10.0	7.5	495-1218-ND	.29	2.21	14.88	B32520C6332J
		0.0033	±5%	2.5	6.5	7.2	5.0	495-1219-ND	.18	1.38	9.30	B32529C6332J
		0.0033	±10%	2.5	6.5	7.2	5.0	495-2575-ND	.14	1.02	7.25	B32529C6332K
		0.0047	±5%	2.5	7.0	10.0	7.5	495-1221-ND	.29	2.21	14.88	B32520C6472J
		0.0047	±10%	2.5	7.0	10.0	7.5	495-2432-ND	.22	1.61	11.50	B32520C6472K
		0.0047	±5%	2.5	6.5	7.2	5.0	495-1220-ND	.18	1.38	9.30	B32529C6472J
		0.0047	±10%	2.5	6.5	7.2	5.0	495-2578-ND	.14	1.02	7.25	B32529C6472K
		0.0068	±5%	2.5	6.5	7.2	5.0	495-1223-ND	.18	1.38	9.30	B32529C6682J
		0.01	±5%	2.5	7.0	10.0	7.5	495-1226-ND	.29	2.21	14.88	B32520C6103J
		0.01	±10%	2.5	7.0	10.0	7.5	495-2430-ND	.22	1.61	11.50	B32520C6103K
		0.01	±5%	4.0	7.0	13.0	10.0	495-1225-ND	.35	2.38	16.78	B32521C6103J
		0.01	±10%	4.0	7.0	13.0	10.0	495-2442-ND	.28	2.07	14.75	B32521C6103K
		0.01	±5%	3.0	6.5	7.2	5.0	495-1224-ND	.25	1.89	12.71	B32529C6103J
		0.01	±10%	3.0	6.5	7.2	5.0	495-2567-ND	.19	1.37	9.75	B32529C6103K
		0.012	±5%	3.5	8.0	7.2	5.0	495-2569-ND	.19	1.44	10.25	B32529C6123J
		0.015	±5%	3.0	8.0	10.0	7.5	495-1227-ND	.31	2.11	14.85	B32520C6153J
		0.015	±5%	4.0	7.0	13.0	10.0	495-1229-ND	.40	2.69	18.98	B32521C6153J
		0.015	±5%	3.5	8.0	7.2	5.0	495-1228-ND	.25	1.93	13.02	B32529C6153J
		0.022	±5%	4.0	8.5	10.0	7.5	495-1232-ND	.32	2.15	15.13	B32520C6223J
		0.022	±5%	4.0	7.0	13.0	10.0	495-1230-ND	.40	2.69	18.98	B32521C6223J
		0.022	±5%	4.5	9.5	7.3	5.0	495-1231-ND	.27	1.83	12.93	B32529C6223J
		0.033	±5%	5.0	10.5	10.0	7.5	495-1233-ND	.37	2.54	17.88	B32520C6333J
		0.033	±5%	4.0	9.0	13.0	10.0	495-1234-ND	.41	2.77	19.53	B32521C6333J
		0.047	±5%	5.0	10.5	10.0	7.5	495-1238-ND	.40	2.69	18.98	B32520C6473J
		0.047	±5%	5.0	11.0	13.0	10.0	495-1239-ND	.39	2.87	20.50	B32521C6473J
		0.047	±5%	5.0	10.5	18.0	15.0	495-1236-ND	.53	3.92	28.00	B32522C6473J
		0.047	±5%	6.0	10.5	7.5	5.0	495-1237-ND	.39	2.66	18.73	B32529B6473J
		0.068	±5%	5.0	11.0	13.0	10.0	495-1242-ND	.46	3.40	24.25	B32521C6683J
		0.10	±5%	6.0	12.0	13.0	10.0	495-1243-ND	.48	3.57	25.50	B32521C6104J
		0.10	±10%	6.0	12.0	13.0	10.0	495-2444-ND	.47	3.43	24.50	B32521C6104K
		0.10	±5%	5.0	10.5	18.0	15.0	495-1244-ND	.58	4.31	30.75	B32522C6104J
		0.10	±10%	5.0	10.5	18.0	15.0	495-2452-ND	.56	4.10	29.25	B32522C6104K
		0.10	±5%	7.8	13.0	7.8	5.0	495-1246-ND	.52	3.85	27.50	B32529D6104J
		0.15	±5%	6.0	11.0	18.0	15.0	495-1247-ND	.63	4.62	33.00	B32522C6154J
		0.22	±5%	7.0	12.5	18.0	15.0	495-1249-ND	.67	4.97	35.50	B32522C6224J
		0.33	±5%	8.5	14.5	18.0	15.0	495-1251-ND	.74	5.46	39.00	B32522C6334J
		0.47	±10%	9.0	17.5	18.0	15.0	495-2453-ND	1.06	7.84	56.00	B32522C6474K
		1.0	±10%	10.5	16.5	26.5	22.5	495-2455-ND	1.39	10.26	73.25	B32523Q6105K
450	200	0.10	±5%	5.0	10.5	18.0	15.0	495-1245-ND	.47	3.43	24.50	B32522N6104J
		0.15	±5%	5.0	10.5	18.0	15.0	495-1248-ND	.52	3.82	27.25	B32522N6154J
		0.22	±5%	6.0	11.0	18.0	15.0	495-1250-ND	.61	4.52	32.25	B32522N6224J
		0.33	±5%	8.5	14.5	18.0	15.0	495-1252-ND	.66	4.87	34.75	B32522N6334J
		0.47	±5%	8.5	14.5	18.0	15.0	495-1253-ND	.77	5.76	42.30	B32522N6474J
		0.68	±5%	9.0	17.5	18.0	15.0	495-1254-ND	1.06	7.81	55.75	B32522N6684J
630	200	0.0068	±5%	4.0	9.0	13.0	10.0	495-1260-ND	.57	4.17	29.75	B32521N8682J
		0.01	±5%	4.0	9.0	13.0	10.0	495-1261-ND	.57	4.17	29.75	B32521N8103J
		0.015	±5%	5.0	11.0	13.0	10.0	495-1263-ND	.57	4.17	29.75	B32521N8153J
		0.022	±5%	5.0	11.0	13.0	10.0	495-1264-ND	.57	4.17	29.75	B32521N8223J
		0.033	±5%	6.0	12.0	13.0	10.0	495-1265-ND	.58	4.31	30.75	B32521N8333J
		0.033	±5%	5.0	10.5	18.0	15.0	495-1266-ND	.58	4.31	30.75	B32522Q8333J
		0.047	±5%	5.0	10.5	18.0	15.0	495-1267-ND	.58	4.31	30.75	B32522Q8473J
		0.068	±5%	6.0	11.0	18.0	15.0	495-1268-ND	.74	5.66	38.13	B32522Q8683J
		0.10	±5%	7.0	12.5	18.0	15.0	495-1269-ND	.66	4.83	34.50	B32522Q8104J
	400	0.001	±5%	2.5	6.5	7.2	5.0	495-1255-ND	.29	1.99	14.03	B32529C8102J
		0.0022	±5%	2.5	6.5	7.2	5.0	495-1256-ND	.29	1.99	14.03	B32529C8222J
		0.0022	±10%	2.5	6.5	7.2	5.0	495-2583-ND	.23	1.72	12.25	B32529C8222K
		0.0033	±5%	3.5	8.0	7.2	5.0	495-1257-ND	.32	2.18	15.40	B32529C8332J
		0.0033	±10%	3.5	8.0	7.2	5.0	495-2587-ND	.25	1.86	13.25	B32529C8332K
		0.0047	±5%	3.5	8.0	7.2	5.0	495-1258-ND	.32	2.18	15.40	B32529C8472J
		0.0068	±5%	3.5	8.0	7.2	5.0	495-1259-ND	.35	2.34	16.50	B32529C8682J
		0.01	±5%	5.0	10.0	7.5	5.0	495-1262-ND	.40	2.69	18.98	B32529C8103J

Tape and Box

WV (DC)	WV (AC)	Cap. (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Ammo Pack		Epcos Part No.
				b	h	L	e		Qty.	Pricing	
63	40	0.001	±10%	2.5	6.5	7.2	5.0	495-2456-3-ND	3,200	42.00/M	B32529C102K289
		0.0022	±5%	2.5	6.5	7.2	5.0	495-2517-3-ND	3,200	44.00/M	B32529C222J289
		0.0022	±10%	2.5	6.5	7.2	5.0	495-2518-3-ND	3,200	42.00/M	B32529C222K289
		0.0047	±10%	2.5	6.5	7.2	5.0	495-2555-3-ND	3,200	42.00/M	B32529C472K289
		0.01	±5%	2.5	6.5	7.2	5.0	495-2458-2-ND†	2,800	44.00/M	B32529C103J189
		0.01	±5%	2.5	6.5	7.2	5.0	495-2458-3-ND	3,200	44.00/M	B32529C103J289
		0.01	±10%	2.5	6.5	7.2	5.0	495-2460-2-ND†	2,800	42.00/M	B32529C103K189
		0.01	±10%	2.5	6.5	7.2	5.0	495-2460-3-ND	3,200	42.00/M	B32529C103K289
		0.015	±5%	2.5	6.5	7.2	5.0	495-2506-3-ND	3,200	44.00/M	B32529C153J289
		0.015	±10%	2.5	6.5	7.2	5.0	495-2507-3-ND	3,200	42.00/M	B32529C153K289
		0.022	±10%	2.5	6.5	7.2	5.0	495-2520-3-ND	3,200	42.00/M	B32529C223K289
		0.033	±10%	2.5	6.5	7.2	5.0	495-2545-3-ND	3,200	42.00/M	B32529C333K289
		0.047	±5%	2.5	6.5	7.2	5.0	495-2557-3-ND	3,200	44.00/M	B32529C473J289
		0.047	±10%	2.5	6.5	7.2	5.0	495-2558-3-ND	3,200	42.00/M	B32529C473K289
		0.068	±10%	2.5	6.5	7.2	5.0	495-2580-3-ND	3,200	42.00/M	B32529C683K289
		0.10	±5%	2.5	6.5	7.2	5.0	495-2463-2-ND†	2,800	44.00/M	B32529C104J189
		0.10	±5%	2.5	6.5	7.2	5.0	495-2463-3-ND	3,200	44.00/M	B32529C104J289
		0.10	±10%	2.5	6.5	7.2	5.0	495-2465-2-ND†	2,800	42.00/M	B32529C104K189
		0.10	±10%	2.5	6.5	7.2	5.0	495-2465-3-ND	3,200	42.00/M	B32529C104K289
		0.15	±5%	2.5	6.5	7.2	5.0	495-2509-3-ND	3,200	54.00/M	B32529C154J289
		0.15	±10%	2.5	6.5	7.2	5.0	495-2510-3-ND	3,200	51.00/M	B32529C154K289
		0.22	±5%	2.5	6.5	7.2	5.0	495-2522-2-ND†	2,800	59.00/M	B32529C224J189
		0.22	±5%	2.5	6.5	7.2	5.0	495-2522-3-ND	3,200	59.00/M	B32529C224J289
		0.22	±10%	2.5	6.5	7.2	5.0	495-2524-2-ND†	2,800	55.00/M	B32529C224K189
		0.22	±10%	2.5	6.5	7.2	5.0	495-2524-3-ND	3,200	55.00/M	B32529C224K289
		0.33	±5%	3.0	6.5	7.2	5.0	495-2547-3-ND	2,700	95.00/M	B32529C334J289
		0.33	±10%	3.0	6.5	7.2	5.0	495-2548-2-ND†	2,400	90.00/M	B32529C334K189
		0.33	±10%	3.0	6.5	7.2	5.0	495-2548-3-ND	2,700	90.00/M	B32529C334K289
		0.47	±5%	3.5	8.0	7.2	5.0	495-2560-3-ND	2,300	103.00/M	B32529C474J289
		0.47	±10%	3.5	8.0	7.2	5.0	495-2561-2-ND†	2,000	98.00/M	B32529C474K189
		0.47	±10%	3.5	8.0	7.2	5.0	495-2561-3-ND	2,300	98.00/M	B32529C474K289
		0.68	±5%	4.5	9.5	7.3	5.0	495-2582-3-ND	1,800	140.00/M	B32529C684J289
		1.0	±5%	4.5	9.5	7.3	5.0	495-2468-2-ND†	1,500	150.00/M	B32529C105J189
		1.0	±5%	4.5	9.5	7.3	5.0	495-2468-3-ND	1,800	150.00/M	B32529C105J289
		1.0	±10%	4.5	9.5	7.3	5.0	495-2470-2-ND†	1,500	143.00/M	B32529C105K189
		1.0	±10%	4.5	9.5	7.3	5.0	495-2470-3-ND	1,800	143.00/M	B32529C105K289
		1.5	±10%	6.0	10.5	7.5	5.0	495-2512-2-ND†	1,100	381.00/M	B32529C155K189
100	63	0.001	±5%	2.5	6.5	7.2	5.0	495-2473-3-ND	3,200	44.00/M	B32529C1102J289
		0.001	±10%	2.5	6.5	7.2	5.0	495-2474-3-ND	3,200	42.00/M	B32529C1102K289
		0.0022	±5%	2.5	6.5	7.2	5.0	495-2484-2-ND†	2,800	44.00/M	B32529C1222J189
		0.0022	±5%	2.5	6.5	7.2	5.0	495-2484-3-ND	3,200	44.00/M	B32529C1222J289
		0.0022	±10%	2.5	6.5	7.2	5.0	495-2486-3-ND	3,200	42.00/M	B32529C1222K289

† Tape and Reel

(Continued)

Metallized Polyester Film Capacitors

MKT Series *(Cont.)*

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Ammo Pack		Epcos Part No.
				b	h	L	e		Qty.	Pricing	
100	63	0.0047	±5%	2.5	6.5	7.2	5.0	495-2498-3-ND	3,200	44.00/M	B32529C1472J289
		0.01	±5%	2.5	6.5	7.2	5.0	495-2475-2-ND†	2,800	44.00/M	B32529C1103J189
		0.01	±5%	2.5	6.5	7.2	5.0	495-2475-3-ND	3,200	44.00/M	B32529C1103J289
		0.01	±10%	2.5	6.5	7.2	5.0	495-2477-3-ND	3,200	42.00/M	B32529C1103K289
		0.022	±5%	2.5	6.5	7.2	5.0	495-2488-3-ND	3,200	44.00/M	B32529C1223J289
		0.022	±10%	2.5	6.5	7.2	5.0	495-2489-3-ND	3,200	42.00/M	B32529C1223K289
		0.033	±5%	2.5	6.5	7.2	5.0	495-2494-3-ND	3,200	44.00/M	B32529C1333J289
		0.033	±10%	2.5	6.5	7.2	5.0	495-2495-2-ND†	2,800	42.00/M	B32529C1333K189
		0.033	±10%	2.5	6.5	7.2	5.0	495-2495-3-ND	3,200	42.00/M	B32529C1333K289
		0.047	±5%	2.5	6.5	7.2	5.0	495-2499-3-ND	3,200	44.00/M	B32529C1473J289
		0.047	±10%	2.5	6.5	7.2	5.0	495-2500-3-ND	3,200	42.00/M	B32529C1473K289
		0.068	±5%	2.5	6.5	7.2	5.0	495-2514-3-ND	3,200	44.00/M	B32529C1683J289
		0.10	±5%	2.5	7.0	10	7.5	495-2422-2-ND†	2,800	91.00/M	B32520C1104J189
		0.10	±10%	2.5	7.0	10	7.5	495-2423-2-ND†	2,800	86.00/M	B32520C1104K189
		0.10	±5%	2.5	6.5	7.2	5.0	495-2479-2-ND†	2,800	44.00/M	B32529C1104J189
		0.10	±5%	2.5	6.5	7.2	5.0	495-2479-3-ND	3,200	44.00/M	B32529C1104J289
		0.10	±10%	2.5	6.5	7.2	5.0	495-2481-2-ND†	2,800	42.00/M	B32529C1104K189
		0.10	±10%	2.5	6.5	7.2	5.0	495-2481-3-ND	3,200	42.00/M	B32529C1104K289
		0.22	±5%	3.5	8.0	7.2	5.0	495-2491-3-ND	2,300	78.00/M	B32529C1224J289
		0.22	±10%	3.5	8.0	7.2	5.0	495-2492-3-ND	2,300	75.00/M	B32529C1224K289
		0.47	±5%	4.5	9.5	7.3	5.0	495-2502-3-ND	1,800	116.00/M	B32529C1474J289
		0.47	±10%	4.5	9.5	7.3	5.0	495-2503-2-ND†	1,500	111.00/M	B32529C1474K189
		0.47	±10%	4.5	9.5	7.3	5.0	495-2503-3-ND	1,800	111.00/M	B32529C1474K289
		0.68	±10%	6.0	10.5	7.5	5.0	495-2515-2-ND†	1,100	174.00/M	B32529C1684K189
250	160	0.0022	±10%	2.5	6.5	7.2	5.0	495-2537-3-ND	3,200	44.00/M	B32529C3222K289
		0.01	±10%	2.5	6.5	7.2	5.0	495-2527-2-ND†	2,800	44.00/M	B32529C3103K189
		0.01	±10%	2.5	6.5	7.2	5.0	495-2527-3-ND	3,200	44.00/M	B32529C3103K289
		0.022	±10%	2.5	7.0	10.0	7.5	495-2428-3-ND	3,200	75.00/M	B32520C3223K289
		0.022	±10%	2.5	6.5	7.2	5.0	495-2539-2-ND†	2,800	44.00/M	B32529C3223K189
		0.022	±10%	2.5	6.5	7.2	5.0	495-2539-3-ND	3,200	44.00/M	B32529C3223K289
		0.033	±5%	3.0	6.5	7.2	5.0	495-2542-3-ND	2,700	64.00/M	B32529C3333J289
		0.033	±10%	3.0	6.5	7.2	5.0	495-2543-3-ND	2,700	60.00/M	B32529C3333K289
		0.047	±5%	3.5	8.0	7.2	5.0	495-2551-3-ND	2,300	65.00/M	B32529C3473J289
		0.047	±10%	3.5	8.0	7.2	5.0	495-2552-2-ND†	2,000	65.00/M	B32529C3473K189
		0.047	±10%	3.5	8.0	7.2	5.0	495-2552-3-ND	2,300	62.00/M	B32529C3473K289
		0.10	±5%	4.0	7.0	13.0	10.0	495-1194-3-ND	1,000	103.00	B32521C3104J289
		0.10	±10%	4.0	8.5	10.0	7.5	495-2426-3-ND	2,000	93.00/M	B32520C3104K289
		0.10	±5%	4.5	9.5	7.3	5.0	495-2530-2-ND†	1,500	82.00/M	B32529C3104J189
		0.10	±5%	4.5	9.5	7.3	5.0	495-2530-3-ND	1,800	82.00/M	B32529C3104J289
		0.10	±10%	4.5	9.5	7.3	5.0	495-2532-3-ND	1,800	78.00/M	B32529C3104K289
		0.15	±5%	5.0	10.0	7.5	5.0	495-2534-3-ND	1,600	108.00/M	B32529C3154J289
		0.15	±10%	5.0	10.0	7.5	5.0	495-2535-3-ND	1,600	103.00/M	B32529C3154K289
		0.47	±10%	6.0	12.0	13.0	10.0	495-2440-2-ND†	1,100	235.00/M	B32521C3474K189
		1.0	±5%	8.5	14.5	18.0	15.0	495-2449-2-ND†	700	242.90	B32522C3105J189
400	200	0.001	±10%	2.5	6.5	7.2	5.0	495-2564-3-ND	3,200	47.00/M	B32529C6102K289
		0.0022	±5%	2.5	6.5	7.2	5.0	495-2572-3-ND	3,200	49.00/M	B32529C6222J289
		0.0022	±10%	2.5	6.5	7.2	5.0	495-2573-3-ND	3,200	47.00/M	B32529C6222K289
		0.0033	±10%	2.5	6.5	7.2	5.0	495-2575-3-ND	3,200	47.00/M	B32529C6332K289
		0.0047	±10%	2.5	7.0	10.0	7.5	495-2432-2-ND†	2,800	75.00/M	B32520C6472K189
		0.0047	±10%	2.5	7.0	10.0	7.5	495-2432-3-ND	3,200	75.00/M	B32520C6472K289
		0.0047	±5%	2.5	6.5	7.2	5.0	495-2577-3-ND	3,200	49.00/M	B32529C6472J289
		0.0047	±10%	2.5	6.5	7.2	5.0	495-2578-3-ND	3,200	47.00/M	B32529C6472K289
		0.01	±10%	2.5	7.0	10.0	7.5	495-2430-3-ND	3,200	75.00/M	B32520C6103K289
		0.01	±10%	4.0	7.0	13.0	10.0	495-2442-3-ND	1,000	96.00	B32521C6103K289
		0.01	±5%	3.0	6.5	7.2	5.0	495-2566-3-ND	2,700	67.00/M	B32529C6103J289
		0.01	±10%	3.0	6.5	7.2	5.0	495-2567-3-ND	2,700	64.00/M	B32529C6103K289
		0.012	±5%	3.5	8.0	7.2	5.0	495-2569-3-ND	2,300	67.00/M	B32529C6123J289
		0.015	±5%	3.5	8.0	7.2	5.0	495-2571-3-ND	2,300	68.00/M	B32529C6153J289
		0.047	±10%	5.0	11.0	13.0	10.0	495-2446-3-ND	830	112.05	B32521C6473K289
		0.10	±10%	6.0	12.0	13.0	10.0	495-2444-3-ND	680	115.60	B32521C6104K289
630	400	0.0022	±10%	2.5	6.5	7.2	5.0	495-2583-3-ND	3,200	80.00/M	B32529C8222K289
		0.0033	±10%	3.5	8.0	7.2	5.0	495-2587-3-ND	2,300	86.00/M	B32529C8332K289

† Tape and Reel

MKT Wound Series

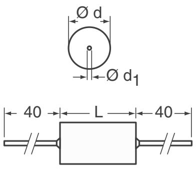

Construction:
- Dielectric: polyethylene terephthalate (polyester, PET)
- Cylindrical winding
- Insulating sleeve
- Face ends sealed with epoxy resin

Applications:
- Smoothing
- Filtering

Specifications:
- Operating Temperature Range: -40°C ~ 100°C
- DC Test Voltage: 1.4 V_R for 2 seconds
- Tolerance: ±10%

WV (DC)	WV (AC)	Cap. (µF)	Dimensions (mm)			Digi-Key Part No.	Pricing			Epcos Part No.
			Ød	Ød1	L		1	10	100	
100	63	0.10	6.0	0.6	14.0	495-3516-ND	.86	6.37	45.50	B32232A1104K
		0.15	6.0	0.6	14.0	495-3518-ND	.85	6.25	44.63	B32232A1154K
		0.22	6.0	0.6	14.0	495-3520-ND	.91	6.70	47.83	B32232A1224K
		0.33	6.0	0.6	19.0	495-3522-ND	.60	4.45	31.75	B32232A1334K
		0.47	6.5	0.6	19.0	495-3524-ND	1.11	8.17	58.33	B32232A1474K
		0.68	7.0	0.6	19.0	495-3526-ND	.72	5.29	37.75	B32232A1684K
		1.0	8.5	0.8	19.0	495-3517-ND	1.12	8.40	63.00	B32232A1105K
		1.5	8.0	0.8	27.0	495-3519-ND	1.40	10.50	78.75	B32232A1155K
		2.2	9.5	0.8	27.0	495-3521-ND	1.87	14.00	105.01	B32232A1225K
		3.3	11.5	0.8	27.0	495-3523-ND	2.45	18.55	140.00	B32232A1335K
		4.7	12.0	0.8	32.0	495-3525-ND	2.86	21.64	163.34	B32232A1475K
		6.8	14.0	0.8	32.0	495-3527-ND	4.08	30.92	233.34	B32232A1685K
250	160	0.10	6.0	0.6	14.0	495-3528-ND	.94	6.94	49.58	B32232A3104K
		0.22	6.0	0.6	19.0	495-3530-ND	.95	7.14	53.55	B32232A3224K
		0.33	8.0	0.8	19.0	495-3532-ND	.66	4.83	34.50	B32232A3334K
		0.47	7.5	0.8	19.0	495-3534-ND	.95	7.14	53.55	B32232A3474K
		0.68	8.0	0.8	27.0	495-3536-ND	.78	5.74	41.00	B32232A3684K
		1.0	10.0	0.8	27.0	495-3529-ND	1.40	10.50	78.75	B32232A3105K
		2.2	10.5	0.8	32.0	495-3531-ND	2.33	17.50	131.24	B32232A3225K
		3.3	14.0	0.8	32.0	495-3533-ND	2.86	21.64	163.34	B32232A3335K
		4.7	16.5	0.8	32.0	495-3535-ND	1.89	14.31	108.00	B32232A3475K
		6.8	16.0	0.8	42.0	495-3537-ND	2.84	21.47	162.00	B32232A3685K
400	200	0.10	7.0	0.6	19.0	495-3538-ND	1.00	7.35	52.50	B32232A6104K
		0.22	8.0	0.8	27.0	495-3539-ND	1.11	8.17	58.33	B32232A6224K
		0.47	11.0	0.8	27.0	495-3540-ND	1.17	8.75	65.63	B32232A6474K
		0.68	11.5	0.8	32.0	495-3541-ND	.93	6.86	49.00	B32232A6684K
630	200	0.033	6.5	0.6	19.0	495-3546-ND	.62	4.59	32.75	B32232A8333K
		0.047	7.5	0.8	19.0	495-3547-ND	.66	4.87	34.75	B32232A8473K
630	200	0.10	10.5	0.8	19.0	495-3542-ND	.66	4.87	34.75	B32232A8104K
		0.15	10.0	0.8	27.0	495-3544-ND	.67	4.97	35.50	B32232A8154K
		0.22	11.5	0.8	27.0	495-3545-ND	1.07	8.05	60.37	B32232A8224K
		0.47	14.5	0.8	32.0	495-3548-ND	.86	6.48	48.60	B32232A8474K
		1.0	16.0	0.8	32.0	495-3543-ND	1.35	10.11	75.83	B32232A8105K

Metallized Polypropylene Film Capacitors — MKP Series - Pulse Application with Epoxy Resin Coating

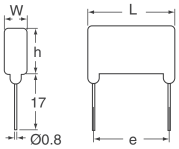

Construction: • Dielectric: polypropylene • Wound capacitor technology • Epoxy resin coating (UL 94V-0)
Features: • Very high pulse strength
Applications: • TV (S-correction, flyback) • Electronic ballasts
Specifications: • Operating Temperature Range: -55°C ~ 110°C • DC Test Voltage: 1.6 V_R for 2 seconds • Tolerance: ±5%

WV (DC)	WV (AC)	Cap. (µF)	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
			W	h	L	e		1	10	100	
250	160	0.22	7.0	14.5	26.5	22.5	495-3599-ND	.52	3.82	27.25	B32613A3224J008
		0.33	7.0	14.5	26.5	22.5	495-3600-ND	.57	4.20	30.00	B32613A3334J008
		0.47	9.5	16.0	18.0	15.0	495-3565-ND	.58	4.27	30.50	B32612A3474J008
		0.47	7.0	15.0	31.5	27.5	495-3628-ND	1.08	8.07	60.53	B32614A3474J008
		0.68	11.5	17.5	18.0	15.0	495-3566-ND	.67	4.97	35.50	B32612A3684J008
		0.68	8.0	16.5	31.5	27.5	495-3629-ND	1.19	8.94	67.05	B32614A3684J008
		1.0	9.5	17.5	31.5	27.5	495-3626-ND	1.30	9.78	73.35	B32614A3105J008
		2.2	14.0	22.0	31.5	27.5	495-3627-ND	1.87	14.04	105.30	B32614A3225J008
400	200	0.068	6.5	12.0	18.0	15.0	495-3571-ND	.41	3.01	21.50	B32612A4683J008
		0.1	7.0	12.5	18.0	15.0	495-3567-ND	.47	3.43	24.50	B32612A4104J008
		0.15	7.5	12.5	18.0	15.0	495-3568-ND	.49	3.61	25.75	B32612A4154J008
		0.15	7.0	13.5	26.5	22.5	495-3601-ND	.58	4.27	30.50	B32613A4154J008
		0.22	7.0	14.0	26.5	22.5	495-3602-ND	.61	4.52	32.25	B32613A4224J008
		0.33	9.5	16.0	18.0	15.0	495-3569-ND	.54	3.99	28.50	B32612A4334J008
		0.33	8.0	16.0	26.5	22.5	495-3603-ND	.67	4.94	35.25	B32613A4334J008
		0.47	11.0	17.5	18.0	15.0	495-3570-ND	.94	6.93	49.50	B32612A4474J008
		0.47	9.5	15.0	31.5	27.5	495-3630-ND	1.02	7.65	57.38	B32614A4474J008
		0.68	11.5	17.5	26.5	22.5	495-3604-ND	.82	6.15	46.13	B32613A4684J008
		0.68	10.0	17.5	31.5	27.5	495-3631-ND	1.08	8.07	60.53	B32614A4684J008
630	250	0.068	6.5	12.0	18.0	15.0	495-3575-ND	.45	3.33	23.75	B32612A6683J008
		0.1	7.5	13.0	18.0	15.0	495-3572-ND	.53	3.89	27.75	B32612A6104J008
		0.1	7.0	12.5	26.5	22.5	495-3605-ND	.58	4.27	30.50	B32613A6104J008
		0.15	9.0	14.5	18.0	15.0	495-3573-ND	.64	4.73	33.75	B32612A6154J008
		0.15	7.5	14.0	26.5	22.5	495-3606-ND	.67	4.94	35.25	B32613A6154J008
		0.22	10.0	16.5	18.0	15.0	495-3574-ND	.67	4.97	35.50	B32612A6224J008
		0.22	9.0	15.5	26.5	22.5	495-3607-ND	.74	5.46	39.00	B32613A6224J008
		0.33	10.0	18.0	26.5	22.5	495-3608-ND	.87	6.41	45.75	B32613A6334J008
		0.47	11.0	20.0	26.5	22.5	495-3609-ND	.85	6.36	47.70	B32613A6474J008
		0.47	10.5	18.5	31.5	27.5	495-3633-ND	1.02	7.65	57.38	B32614A6474J008
		0.68	12.0	21.5	31.5	27.5	495-3634-ND	1.19	8.94	67.05	B32614A6684J008
		1.0	14.0	24.0	31.5	27.5	495-3632-ND	1.53	11.46	85.95	B32614A6105J008
1000	250	0.01	7.0	12.5	18.0	15.0	495-3549-ND	.41	3.01	21.50	B32612A0103J008
		0.015	8.0	13.5	18.0	15.0	495-3551-ND	.42	3.08	22.00	B32612A0153J008
		0.022	9.0	15.5	18.0	15.0	495-3552-ND	.47	3.47	24.75	B32612A0223J008
		0.033	6.5	13.0	18.0	15.0	495-3553-ND	.50	3.68	26.25	B32612A0333J008
		0.033	8.5	14.5	26.5	22.5	495-3587-ND	.58	4.27	30.50	B32613A0333J008
		0.047	7.0	15.5	18.0	15.0	495-3554-ND	.55	4.03	28.75	B32612A0473J008
		0.047	10.0	15.5	26.5	22.5	495-3588-ND	.66	4.83	34.50	B32613A0473J008
		0.068	8.5	16.5	18.0	15.0	495-3555-ND	.57	4.20	30.00	B32612A0683J008
		0.068	11.0	17.5	26.5	22.5	495-3589-ND	.73	5.36	38.25	B32613A0683J008
		0.1	11.0	17.5	18.0	15.0	495-3550-ND	.66	4.87	34.75	B32612A0104J008
		0.1	10.0	16.5	26.5	22.5	495-3585-ND	.81	5.95	42.50	B32613A0104J008
		0.1	11.5	17.5	31.5	27.5	495-3614-ND	.91	6.81	51.08	B32614A0104J008
		0.15	12.0	18.0	26.5	22.5	495-3586-ND	.82	6.15	46.13	B32613A0154J008
		0.15	13.0	21.0	31.5	27.5	495-3615-ND	.96	7.23	54.23	B32614A0154J008
		0.22	14.5	24.5	31.5	27.5	495-3616-ND	1.08	8.07	60.53	B32614A0224J008
1250	500	0.0068	7.0	11.0	18.0	15.0	495-3580-ND	.40	2.94	21.00	B32612A7682J008
		0.01	7.5	13.0	18.0	15.0	495-3576-ND	.46	3.40	24.25	B32612A7103J008
		0.015	8.0	14.0	18.0	15.0	495-3577-ND	.45	3.33	23.75	B32612A7153J008
		0.022	9.5	15.5	18.0	15.0	495-3578-ND	.52	3.85	27.50	B32612A7223J008
		0.033	11.0	17.5	18.0	15.0	495-3579-ND	.57	4.20	30.00	B32612A7333J008
1600	500	0.0047	6.5	12.0	18.0	15.0	495-3558-ND	.41	3.01	21.50	B32612A1472J008
		0.0068	8.0	13.0	18.0	15.0	495-3559-ND	.42	3.08	22.00	B32612A1682J008
		0.01	9.0	14.5	18.0	15.0	495-3556-ND	.52	3.85	27.50	B32612A1103J008
		0.01	7.0	13.5	26.5	22.5	495-3590-ND	.67	4.97	35.50	B32613A1103J008
		0.015	10.0	17.5	18.0	15.0	495-3557-ND	.66	4.87	34.75	B32612A1153J008
		0.015	8.0	14.5	26.5	22.5	495-3591-ND	.87	6.44	46.00	B32613A1153J008
		0.022	9.0	17.0	26.5	22.5	495-3592-ND	.85	6.39	47.93	B32613A1223J008
		0.022	9.0	14.5	31.5	27.5	495-3617-ND	.87	6.44	46.00	B32614A1223J008
		0.033	10.5	18.5	26.5	22.5	495-3593-ND	1.02	7.65	57.38	B32613A1333J008
		0.033	10.5	16.0	31.5	27.5	495-3618-ND	.92	6.79	48.50	B32614A1333J008
		0.047	11.0	19.5	31.5	27.5	495-3619-ND	1.08	8.07	60.53	B32614A1473J008
		0.068	13.0	21.5	31.5	27.5	495-3620-ND	1.16	8.67	65.03	B32614A1683J008
	700	0.0033	6.5	11.5	18.0	15.0	495-3582-ND	.53	3.92	28.00	B32612J1332J008
		0.0047	7.5	12.5	18.0	15.0	495-3583-ND	.59	4.38	31.25	B32612J1472J008
		0.0068	8.5	14.5	18.0	15.0	495-3584-ND	.64	4.69	33.50	B32612J1682J008
		0.01	9.5	17.0	18.0	15.0	495-3581-ND	.74	5.43	38.75	B32612J1103J008
2000	700	0.001	7.0	10.5	18.0	15.0	495-3560-ND	.46	3.40	24.25	B32612A2102J008
		0.0015	7.5	11.5	18.0	15.0	495-3561-ND	.47	3.47	24.75	B32612A2152J008
		0.0022	8.0	14.5	18.0	15.0	495-3562-ND	.51	3.78	27.00	B32612A2222J008
		0.0033	8.5	15.0	18.0	15.0	495-3563-ND	.53	3.92	28.00	B32612A2332J008
		0.0033	7.0	13.0	26.5	22.5	495-3596-ND	.61	4.48	32.00	B32613A2332J008
		0.0047	9.5	18.0	18.0	15.0	495-3564-ND	.59	4.38	31.25	B32612A2472J008
		0.0047	7.5	14.0	26.5	22.5	495-3597-ND	.66	4.87	34.75	B32613A2472J008
		0.0068	8.5	16.0	26.5	22.5	495-3598-ND	.71	5.22	37.25	B32613A2682J008
		0.01	10.5	17.0	26.5	22.5	495-3594-ND	.94	6.93	49.50	B32613A2103J008
		0.01	9.0	15.5	31.5	27.5	495-3621-ND	.95	7.14	53.55	B32614A2103J008
		0.015	12.0	20.5	26.5	22.5	495-3595-ND	1.14	8.55	64.13	B32613A2153J008
		0.015	11.0	17.5	31.5	27.5	495-3622-ND	.99	7.44	55.80	B32614A2153J008
		0.022	13.0	19.5	31.5	27.5	495-3623-ND	1.05	7.86	58.95	B32614A2223J008
		0.033	14.5	23.0	31.5	27.5	495-3624-ND	1.13	8.49	63.68	B32614A2333J008
		0.047	16.5	25.5	31.5	27.5	495-3625-ND	1.53	11.49	86.18	B32614A2473J008
	1000	0.0033	8.0	14.5	26.5	22.5	495-3611-ND	.74	5.46	39.00	B32613A8332J008
		0.0047	8.5	16.5	26.5	22.5	495-3612-ND	.81	5.95	42.50	B32613A8472J008
		0.0068	10.0	18.5	26.5	22.5	495-3613-ND	.87	6.51	48.83	B32613A8682J008
		0.01	11.5	21.5	26.5	22.5	495-3610-ND	.96	7.23	54.23	B32613A8103J008

Metallized Polyester Film Capacitors — Mini-Blue Series MKT — In Heat-Shrinkable Tube

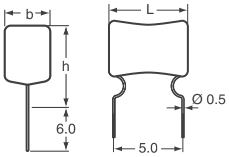

The EPCOS Mini-Blue Capacitor series can be used in a multitude of general purpose applications such as DSL, Energy Saving Lamps, Compact Fluorescent Lamps, Consumer Electronics and Alarm Systems (including motion sensors and break in/smoke/fire alarms). An advantage of the EPCOS Mini-Blue Capacitors is the small size where board space is limited, taking up considerably less board space than a boxed capacitor with the same voltage/capacitance ratings. The Mini-Blue's unique stacked construction give it the ability to withstand high pulse strength (High DV/DT).

Construction: • Dielectric: Polyethylene terephthalate (polyester) • Stacked-film technology • 5mm lead spacing • Heat shrinkable tube: polyester (100µm, 125°C) **Terminals:** • Parallel wire leads - tinned **Features:** • Very small dimensions • Self-healing properties • High pulse strength **Specifications:** • Operating temperature range: -55°C ~ 125°C • Climatic category: 55/125/56

Bulk

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm)			Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L		1	10	100	
63	40	.22	±10%	3.0	10.0	7.0	495-2814-ND	.11	.86	7.34	B32559C224K000
		.33	±10%	3.0	10.0	7.0	495-2816-ND	.15	1.10	9.37	B32559C334K000
		.47	±10%	3.5	10.5	7.0	495-2818-ND	.17	1.26	10.67	B32559C474K000
		.68	±10%	3.5	12.0	7.0	495-2820-ND	.23	1.76	14.94	B32559C684K000
		1.0	±10%	4.0	14.0	7.0	495-2822-ND	.27	2.02	17.11	B32559C105K000
100	63	.033	±10%	3.0	10.0	7.0	495-2824-ND	.11	.83	7.08	B32559C1333K000
		.047	±10%	3.0	10.5	7.0	495-2826-ND	.11	.86	7.27	B32559C1473K000
		.056	±10%	3.0	10.5	7.0	495-2828-ND	.12	.91	7.72	B32559C1563K000
		.068	±10%	3.0	10.5	7.0	495-2830-ND	.11	.83	7.09	B32559C1683K000
		.1	±10%	3.0	10.5	7.0	495-2832-ND	.10	.75	6.35	B32559C1104K000
		.12	±10%	3.0	10.5	7.0	495-2834-ND	.10	.78	6.63	B32559C1124K000
		.15	±10%	3.0	10.5	7.0	495-2836-ND	.11	.83	7.07	B32559C1154K000
		.22	±10%	3.0	10.5	7.0	495-2838-ND	.14	1.04	8.81	B32559C1224K000
		.33	±10%	3.0	12.5	7.0	495-2840-ND	.15	1.16	9.87	B32559C1334K000
		.47	±10%	3.5	13.0	7.0	495-2842-ND	.18	1.33	11.26	B32559C1474K000
250	160	.022	±10%	3.0	10.5	7.0	495-2844-ND	.11	.83	7.07	B32559C3223K000
		.027	±10%	3.0	10.5	7.0	495-2846-ND	.13	.99	8.37	B32559C3273K000
		.033	±10%	3.0	10.5	7.0	495-2848-ND	.15	1.13	9.60	B32559C3333K000
		.047	±10%	3.0	10.5	7.0	495-2850-ND	.15	1.13	9.60	B32559C3473K000
		.056	±10%	3.0	10.5	7.0	495-2852-ND	.15	1.13	9.60	B32559C3563K000
		.068	±10%	3.5	11.5	7.0	495-2854-ND	.15	1.14	9.72	B32559C3683K000
		.082	±10%	3.5	12.5	7.0	495-2856-ND	.15	1.16	9.84	B32559C3823K000
		.10	±10%	3.5	13.0	7.0	495-2858-ND	.16	1.19	10.09	B32559C3104K000
		.12	±10%	5.0	13.0	7.0	495-2860-ND	.16	1.22	10.34	B32559C3124K000
		.15	±10%	5.0	14.0	7.0	495-2862-ND	.16	1.25	10.58	B32559C3154K000
400	200	.0068	±10%	3.0	11.0	7.0	495-2864-ND	.10	.72	6.11	B32559C6682K000
		.0082	±10%	3.0	11.0	7.0	495-2866-ND	.10	.74	6.24	B32559C6822K000
		.01	±10%	3.0	11.5	7.0	495-2868-ND	.10	.75	6.40	B32559C6103K000
		.012	±10%	3.5	11.5	7.0	495-2870-ND	.10	.78	6.63	B32559C6123K000
		.015	±10%	3.5	11.5	7.0	495-2872-ND	.12	.89	7.54	B32559C6153K000
		.022	±10%	3.5	11.5	7.0	495-2874-ND	.13	.98	8.33	B32559C6223K000
		.027	±10%	3.5	11.5	7.0	495-2876-ND	.14	1.06	9.02	B32559C6273K000
		.033	±10%	3.5	11.5	7.0	495-2878-ND	.13	.98	8.33	B32559C6333K000
		.047	±10%	3.5	13.5	7.0	495-2880-ND	.13	1.02	8.64	B32559C6473K000
		.056	±10%	4.0	13.5	7.0	495-2882-ND	.14	1.06	8.98	B32559C6563K000
		.068	±10%	4.5	13.5	7.0	495-2884-ND	.14	1.08	9.14	B32559C6683K000
		.10	±10%	5.5	16.0	7.0	495-2886-ND	.17	1.30	11.03	B32559C6104K000
		.12	±10%	5.5	16.5	7.0	495-2888-ND	.20	1.55	13.13	B32559C6124K000
630	400	.001	±10%	3.0	12.0	7.0	495-2890-ND	.11	.84	7.16	B32559C8102K000
		.0015	±10%	3.0	12.0	7.0	495-2892-ND	.11	.86	7.28	B32559C8152K000
		.0022	±10%	3.0	12.5	7.0	495-2894-ND	.13	.95	8.06	B32559C8222K000
		.0027	±10%	3.0	12.5	7.0	495-2896-ND	.14	1.04	8.79	B32559C8272K000
		.0033	±10%	3.5	12.5	7.0	495-2898-ND	.14	1.09	9.29	B32559C8332K000
		.0047	±10%	3.5	12.5	7.0	495-2900-ND	.15	1.16	9.86	B32559C8472K000
		.0068	±10%	3.5	14.5	7.0	495-2902-ND	.16	1.21	10.25	B32559C8682K000
		.0082	±10%	3.5	14.5	7.0	495-2904-ND	.17	1.26	10.67	B32559C8822K000
		.01	±10%	4.0	14.5	7.0	495-2906-ND	.18	1.35	11.50	B32559C8103K000

Tape and Box

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm)			Digi-Key Part No.	Ammo Pack		Epcos Part No.
				b	h	L		Qty.	Pricing	
63	40	.22	±10%	3.0	10.0	7.0	495-2815-3-ND	4,000	53.00/M	B32559C224K289
		.33	±10%	3.0	10.0	7.0	495-2817-3-ND	2,700	68.00/M	B32559C334K289
		.47	±10%	3.5	10.5	7.0	495-2819-3-ND	3,000	77.00/M	B32559C474K289
		.68	±10%	3.5	12.0	7.0	495-2821-3-ND	2,300	108.00/M	B32559C684K289
		1.0	±10%	4.0	14.0	7.0	495-2823-3-ND	2,300	124.00/M	B32559C105K289
100	63	.033	±10%	3.0	10.0	7.0	495-2825-3-ND	3,000	51.00/M	B32559C1333K289
		.047	±10%	3.0	10.5	7.0	495-2827-3-ND	3,200	53.00/M	B32559C1473K289
		.056	±10%	3.0	10.5	7.0	495-2829-3-ND	3,000	56.00/M	B32559C1563K289
		.068	±10%	3.0	10.5	7.0	495-2831-3-ND	3,500	51.00/M	B32559C1683K289
		.1	±10%	3.0	10.5	7.0	495-2833-3-ND	4,500	46.00/M	B32559C1104K289
		.12	±10%	3.0	10.5	7.0	495-2835-3-ND	3,200	48.00/M	B32559C1124K289
		.15	±10%	3.0	10.5	7.0	495-2837-3-ND	3,200	51.00/M	B32559C1154K289
		.22	±10%	3.0	10.5	7.0	495-2839-3-ND	2,900	64.00/M	B32559C1224K289
		.33	±10%	3.0	12.5	7.0	495-2841-3-ND	2,900	72.00/M	B32559C1334K289
		.47	±10%	3.5	13.0	7.0	495-2843-3-ND	2,500	82.00/M	B32559C1474K289
250	160	.022	±10%	3.0	10.5	7.0	495-2845-3-ND	3,200	51.00/M	B32559C3223K289
		.027	±10%	3.0	10.5	7.0	495-2847-3-ND	3,200	61.00/M	B32559C3273K289
		.033	±10%	3.0	10.5	7.0	495-2849-3-ND	3,200	70.00/M	B32559C3333K289
		.047	±10%	3.0	10.5	7.0	495-2851-3-ND	2,200	70.00/M	B32559C3473K289
		.056	±10%	3.0	10.5	7.0	495-2853-3-ND	2,700	70.00/M	B32559C3563K289
		.068	±10%	3.5	11.5	7.0	495-2855-3-ND	2,700	70.00/M	B32559C3683K289
		.082	±10%	3.5	12.5	7.0	495-2857-3-ND	2,300	71.00/M	B32559C3823K289
		.10	±10%	3.5	13.0	7.0	495-2859-3-ND	3,000	73.00/M	B32559C3104K289
		.12	±10%	5.0	13.0	7.0	495-2861-3-ND	1,800	75.00/M	B32559C3124K289
		.15	±10%	5.0	14.0	7.0	495-2863-3-ND	1,800	77.00/M	B32559C3154K289
400	200	.0068	±10%	3.0	11.0	7.0	495-2865-3-ND	3,200	44.00/M	B32559C6682K289
		.0082	±10%	3.0	11.0	7.0	495-2867-3-ND	3,200	45.00/M	B32559C6822K289
		.01	±10%	3.0	11.5	7.0	495-2869-3-ND	3,200	46.00/M	B32559C6103K289
		.012	±10%	3.5	11.5	7.0	495-2871-3-ND	3,000	48.00/M	B32559C6123K289
		.015	±10%	3.5	11.5	7.0	495-2873-3-ND	2,800	55.00/M	B32559C6153K289
		.022	±10%	3.5	11.5	7.0	495-2875-3-ND	3,200	60.00/M	B32559C6223K289
		.027	±10%	3.5	11.5	7.0	495-2877-3-ND	2,700	65.00/M	B32559C6273K289
		.033	±10%	3.5	11.5	7.0	495-2879-3-ND	2,300	60.00/M	B32559C6333K289
		.047	±10%	3.5	13.5	7.0	495-2881-3-ND	2,300	63.00/M	B32559C6473K289
		.056	±10%	4.0	13.5	7.0	495-2883-3-ND	2,000	65.00/M	B32559C6563K289
		.068	±10%	4.5	13.5	7.0	495-2885-3-ND	1,800	66.00/M	B32559C6683K289
		.10	±10%	5.5	16.0	7.0	495-2887-3-ND	1,500	80.00/M	B32559C6104K289
		.12	±10%	5.5	16.5	7.0	495-2889-3-ND	1,500	95.00/M	B32559C6124K289
630	400	.001	±10%	3.0	12.0	7.0	495-2891-3-ND	3,500	52.00/M	B32559C8102K289
		.0015	±10%	3.0	12.0	7.0	495-2893-3-ND	3,200	53.00/M	B32559C8152K289
		.0022	±10%	3.0	12.5	7.0	495-2895-3-ND	4,000	58.00/M	B32559C8222K289
		.0027	±10%	3.0	12.5	7.0	495-2897-3-ND	2,300	64.00/M	B32559C8272K289
		.0033	±10%	3.5	12.5	7.0	495-2899-3-ND	2,500	67.00/M	B32559C8332K289
		.0047	±10%	3.5	12.5	7.0	495-2901-3-ND	3,000	71.00/M	B32559C8472K289
		.0068	±10%	3.5	14.5	7.0	495-2903-3-ND	3,000	74.00/M	B32559C8682K289
		.0082	±10%	3.5	14.5	7.0	495-2905-3-ND	2,300	77.00/M	B32559C8822K289
		.01	±10%	4.0	14.5	7.0	495-2907-3-ND	2,050	83.00/M	B32559C8103K289

Metallized Polyester Film Capacitors

MKT — Epoxy Resin Coating

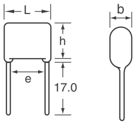

Construction: • Dielectric: Polyethylene terephthalate (polyester, PET) • Epoxy resin coating (UL 94 V-0) **Terminals:** • Straight wire leads, lead free tinned, lead length 17mm **Features:** • High pulse strength • High contact reliability **Specifications:** • Maximum Operating Temperature: 125°C • Climatic category (IEC 60068-1): 55/100/56 **Typical Applications:** • Compact fluorescent lamps (CFL) • Generators

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
100	63	.10	±5%	5.0	9.0	13.0	10.0	495-3116-ND	.20	1.49	11.21	B32591C1104J008
		.15	±5%	5.0	9.0	13.0	10.0	495-3117-ND	.22	1.63	12.24	B32591C1154J008
		.22	±5%	5.0	9.0	13.0	10.0	495-3118-ND	.24	1.80	13.48	B32591C1224J008
		.33	±5%	5.5	9.0	13.0	10.0	495-3119-ND	.29	2.19	16.43	B32591C1334J008
		.47	±5%	6.0	9.5	13.0	10.0	495-3120-ND	.34	2.58	19.33	B32591C1474J008
		.68	±5%	7.0	10.5	13.0	10.0	495-3121-ND	.46	3.43	25.72	B32591C1684J008
		1.0	±5%	8.0	15.0	13.0	10.0	495-3122-ND	.67	5.04	37.80	B32591C1105J008
		.47	±5%	5.0	9.5	18.0	15.0	495-3141-ND	.50	3.73	27.99	B32592C1474J008
		.68	±5%	5.5	10.5	18.0	15.0	495-3142-ND	.53	3.97	29.75	B32592C1684J008
		1.0	±5%	6.5	10.5	18.0	15.0	495-3143-ND	.65	4.90	36.74	B32592C1105J008
		1.5	±5%	7.5	14.0	18.0	15.0	495-3144-ND	.84	6.30	47.25	B32592C1155J008
		2.2	±5%	9.0	14.0	18.0	15.0	495-3145-ND	1.18	8.87	66.51	B32592C1225J008
		3.3	±5%	11.0	17.5	18.0	15.0	495-3146-ND	1.62	12.13	90.99	B32592C1335J008
		4.7	±5%	11.0	17.5	18.0	15.0	495-3147-ND	1.93	14.47	108.54	B32592C1475J008
		1.5	±5%	7.0	14.0	26.5	22.5	495-3164-ND	1.02	7.68	57.58	B32593C1155J008
		2.2	±5%	8.5	15.0	26.5	22.5	495-3165-ND	1.29	9.68	72.63	B32593C1225J008
		3.3	±5%	10.0	16.5	26.5	22.5	495-3166-ND	1.65	12.34	92.57	B32593C1335J008
		4.7	±5%	11.5	18.5	26.5	22.5	495-3167-ND	2.08	15.63	117.25	B32593C1475J008
		6.8	±5%	13.0	21.5	26.5	22.5	495-3168-ND	2.67	20.04	150.32	B32593C1685J008
		4.7	±5%	10.5	18.5	31.5	27.5	495-3179-ND	2.54	19.04	142.81	B32594C1475J008
		6.8	±5%	12.5	21.0	31.5	27.5	495-3180-ND	2.95	22.12	165.89	B32594C1685J008
		10	±5%	17.0	22.0	31.5	27.5	495-3181-ND	3.86	28.93	216.99	B32594C1106J008
250	160	.033	±5%	5.0	9.0	13.0	10.0	495-3123-ND	.17	1.25	9.38	B32591C3333J008
		.047	±5%	5.0	9.0	13.0	10.0	495-3124-ND	.17	1.25	9.38	B32591C3473J008
		.068	±5%	5.0	9.0	13.0	10.0	495-3125-ND	.18	1.34	10.08	B32591C3683J008
		.10	±5%	5.0	9.0	13.0	10.0	495-3126-ND	.20	1.53	11.45	B32591C3104J008
		.15	±5%	5.5	10.0	13.0	10.0	495-3127-ND	.25	1.88	14.11	B32591C3154J008
		.22	±5%	6.0	10.5	13.0	10.0	495-3128-ND	.30	2.27	17.01	B32591C3224J008
		.33	±5%	6.5	11.0	13.0	10.0	495-3129-ND	.37	2.80	20.99	B32591C3334J008
		.47	±5%	8.0	13.5	13.0	10.0	495-3130-ND	.48	3.63	27.20	B32591C3474J008
		.22	±5%	5.5	9.0	18.0	15.0	495-3148-ND	.38	2.82	21.17	B32592C3224J008
		.33	±5%	6.0	10.0	18.0	15.0	495-3149-ND	.42	3.13	23.45	B32592C3334J008
		.47	±5%	7.0	11.0	18.0	15.0	495-3150-ND	.49	3.64	27.29	B32592C3474J008
		.68	±5%	8.0	11.5	18.0	15.0	495-3151-ND	.64	4.82	36.11	B32592C3684J008
		1.0	±5%	9.5	13.0	18.0	15.0	495-3152-ND	.73	5.51	41.31	B32592C3105J008
		.68	±5%	7.0	13.0	26.5	22.5	495-3169-ND	.70	5.29	39.65	B32593C3684J008
		1.0	±5%	7.0	15.5	26.5	22.5	495-3170-ND	.81	6.07	45.50	B32593C3105J008
		1.5	±5%	8.5	17.0	26.5	22.5	495-3171-ND	1.01	7.56	56.70	B32593C3155J008
		2.2	±5%	10.0	18.5	26.5	22.5	495-3172-ND	1.30	9.78	73.33	B32593C3225J008

WV (DC)	WV (AC)	Cap. (µF)	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
250	160	1.5	±5%	8.5	16.0	31.5	27.5	495-3182-ND	1.24	9.26	69.48	B32594C3155J008
		2.2	±5%	10.0	17.5	31.5	27.5	495-3183-ND	1.51	11.32	84.87	B32594C3225J008
		3.3	±5%	12.0	19.5	31.5	27.5	495-3184-ND	1.81	13.57	101.75	B32594C3335J008
		4.7	±5%	14.0	21.5	31.5	27.5	495-3185-ND	2.29	17.16	128.72	B32594C3475J008
		6.8	±5%	15.0	25.0	31.5	27.5	495-3186-ND	1.99	14.93	112.01	B32594C3685J008
400	200	.010	±5%	5.0	9.0	13.0	10.0	495-3131-ND	.22	1.66	12.42	B32591C6103J008
		.015	±5%	5.0	9.0	13.0	10.0	495-3132-ND	.22	1.66	12.42	B32591C6153J008
		.022	±5%	5.0	9.0	13.0	10.0	495-3133-ND	.22	1.66	12.42	B32591C6223J008
		.033	±5%	5.0	9.0	13.0	10.0	495-3134-ND	.24	1.80	13.48	B32591C6333J008
		.047	±5%	5.0	10.5	13.0	10.0	495-3135-ND	.28	2.08	15.57	B32591C6473J008
		.068	±5%	5.5	10.5	13.0	10.0	495-3136-ND	.31	2.30	17.21	B32591C6683J008
		.10	±5%	6.0	11.5	13.0	10.0	495-3137-ND	.37	2.77	20.75	B32591C6104J008
		.068	±5%	5.0	9.0	18.0	15.0	495-3153-ND	.38	2.85	21.35	B32592C6683J008
		.10	±5%	5.0	10.0	18.0	15.0	495-3154-ND	.40	3.03	22.75	B32592C6104J008
		.15	±5%	6.0	10.5	18.0	15.0	495-3155-ND	.42	3.17	23.81	B32592C6154J008
		.22	±5%	7.0	11.0	18.0	15.0	495-3156-ND	.45	3.41	25.56	B32592C6224J008
		.33	±5%	8.0	12.0	18.0	15.0	495-3157-ND	.50	3.73	27.99	B32592C6334J008
		.47	±5%	9.5	13.0	18.0	15.0	495-3158-ND	.72	5.41	40.57	B32592C6474J008
		.68	±5%	10.0	16.0	18.0	15.0	495-3159-ND	.51	3.79	28.42	B32592C6684J008
		.22	±5%	6.5	13.0	26.5	22.5	495-3173-ND	.62	4.62	34.65	B32593C6224J008
		.33	±5%	7.0	14.0	26.5	22.5	495-3174-ND	.65	4.88	36.59	B32593C6334J008
		.47	±5%	7.0	16.5	26.5	22.5	495-3175-ND	.68	5.09	38.18	B32593C6474J008
		.68	±5%	8.0	16.0	31.5	27.5	495-3187-ND	1.37	10.29	77.18	B32594C6684J008
		1.0	±5%	9.5	18.0	31.5	27.5	495-3188-ND	1.51	11.32	84.87	B32594C6105J008
		1.5	±5%	11.5	20.0	31.5	27.5	495-3189-ND	1.55	11.63	87.21	B32594C6155J008
		2.2	±5%	13.5	22.0	31.5	27.5	495-3190-ND	1.77	13.29	99.65	B32594C6225J008
630	200	.010	±5%	6.5	10.5	13.0	10.0	495-3138-ND	.42	3.19	23.90	B32591C8103J008
		.015	±5%	6.5	10.5	13.0	10.0	495-3139-ND	.42	3.18	23.87	B32591C8153J008
		.022	±5%	7.5	11.5	13.0	10.0	495-3140-ND	.45	3.37	25.27	B32591C8223J008
		.033	±5%	6.5	10.5	18.0	15.0	495-3160-ND	.39	2.96	22.16	B32592C8333J008
		.047	±5%	7.0	12.0	18.0	15.0	495-3161-ND	.40	2.98	22.32	B32592C8473J008
		.068	±5%	7.5	14.0	18.0	15.0	495-3162-ND	.42	3.13	23.49	B32592C8683J008
		.10	±5%	8.5	15.0	18.0	15.0	495-3163-ND	.41	3.04	22.79	B32592C8104J008
		.10	±5%	7.0	14.0	26.5	22.5	495-3176-ND	.61	4.56	34.22	B32593C8104J008
		.15	±5%	7.5	16.0	26.5	22.5	495-3177-ND	.73	5.48	41.13	B32593C8154J008
		.22	±5%	8.5	17.0	26.5	22.5	495-3178-ND	.92	6.92	51.91	B32593C8224J008
		.33	±5%	8.0	15.0	31.5	27.5	495-3191-ND	1.29	9.69	72.65	B32594C8334J008
		.47	±5%	10.0	16.0	31.5	27.5	495-3192-ND	1.40	10.52	78.89	B32594C8474J008
		.68	±5%	10.5	18.0	31.5	27.5	495-3193-ND	1.59	11.90	89.28	B32594C8684J008

Panasonic ECQ-E(B) Series Miniaturized Metallized Polyester Film Capacitors

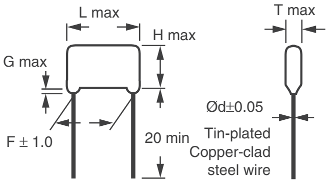

The type ECQ-E(B) series is a downsized version of the popular ECQ-E(F) series. It provides similar electrical characteristics in a smaller package.

Features:
- Noninductive construction
- Wound metallized polyester dielectric

Applications:
- Blocking, bypassing, filtering, timing, interference suppression and low pulse applications

Specifications:
- Operating temperature range: -40°C ~ 85°C
- Rated voltage: 250VDC
- Capacitance tolerance: ±10%(K) @ 1kHZ
- Dissipation factor: ≤1.0% (20°C 1kHz)
- Withstand voltage: 250VDC X 150% for 60 seconds between terminals
- Insulation resistance: ≥9,000MΩ (C ≤ 0.33µF) @ 100VDC, 20°C for 60 seconds; ≥3,000MΩ (C > 0.33µF) @ 100VDC, 20°C for 60 seconds

Voltage (VDC)	Cap. (µF)	Dimensions (mm)						Digi-Key Part No.	Pricing					Panasonic Part No.
		L	T	H	F	G	ød		1	10	100	500	1,000	
250	0.01	7.9	4.2	7.1	5.0	1.0	0.5	P10955-ND◆	.30	2.06	14.52	50.16	79.00	ECQ-E2103KB
	0.012	7.9	4.2	7.1	5.0	1.0	0.5	P10956-ND◆	.30	2.06	14.52	50.16	79.00	ECQ-E2123KB
	0.015	7.9	4.2	7.1	5.0	1.0	0.5	P10957-ND◆	.30	2.06	14.52	50.16	79.00	ECQ-E2153KB
	0.018	7.9	4.3	7.2	5.0	1.0	0.5	P10958-ND◆	.30	2.06	14.52	50.16	79.00	ECQ-E2183KB
	0.022	7.9	4.3	7.2	5.0	1.0	0.5	P10959-ND◆	.30	2.06	14.52	50.16	79.00	ECQ-E2223KB
	0.027	7.9	4.3	7.2	5.0	1.0	0.5	P10960-ND◆	.30	2.06	14.52	50.16	79.00	ECQ-E2273KB
	0.033	7.9	4.3	7.2	5.0	1.0	0.5	P10961-ND◆	.30	2.06	14.52	50.16	79.00	ECQ-E2333KB
	0.039	7.9	4.5	7.4	5.0	1.0	0.5	P10962-ND◆	.30	2.06	14.52	50.16	79.00	ECQ-E2393KB
	0.047	7.9	4.5	7.4	5.0	1.0	0.5	P10963-ND◆	.25	1.68	11.88	41.04	65.00	ECQ-E2473KB
	0.056	7.9	4.7	7.7	5.0	1.0	0.5	P10964-ND◆	.30	2.06	14.52	50.16	79.00	ECQ-E2563KB
	0.068	7.9	5.1	8.0	5.0	1.0	0.5	P10965-ND◆	.25	1.85	13.20	47.52	74.00	ECQ-E2683KB
	0.082	7.9	5.4	8.6	5.0	1.0	0.5	P10966-ND◆	.27	2.02	14.40	51.84	81.00	ECQ-E2823KB
	0.1	7.9	5.9	9.0	5.0	1.0	0.5	P10967-ND◆	.30	2.02	14.27	49.31	78.00	ECQ-E2104KB
	0.12	7.9	5.7	10.6	5.0	1.0	0.5	P10968-ND◆	.32	2.35	16.80	60.48	94.00	ECQ-E2124KB
	0.15	7.9	6.3	11.2	5.0	1.0	0.5	P10969-ND◆	.34	2.49	17.78	63.99	100.00	ECQ-E2154KB
	0.18	10.3	5.0	9.7	7.5	1.0	0.5	P10970-ND◆	.36	2.62	18.73	67.41	105.00	ECQ-E2184KB
	0.22	10.3	5.4	10.1	7.5	1.0	0.5	P10971-ND◆	.37	2.72	19.45	70.02	109.00	ECQ-E2224KB
	0.27	10.3	5.9	10.8	7.5	1.0	0.5	P10972-ND◆	.43	3.19	22.80	82.08	128.00	ECQ-E2274KB
	0.33	10.3	6.4	11.3	7.5	1.0	0.5	P10973-ND◆	.47	3.46	24.73	89.01	138.00	ECQ-E2334KB
	0.39	12.3	5.7	10.9	10.0	1.0	0.6	P10974-ND	.46	3.44	25.29	91.46	145.00	ECQ-E2394KB
	0.47	12.3	6.2	11.4	10.0	1.0	0.6	P10975-ND◆	.42	3.14	23.03	83.30	132.00	ECQ-E2474KB
	0.56	12.3	6.7	11.9	10.0	1.0	0.6	P10976-ND◆	.54	4.03	29.56	106.93	170.00	ECQ-E2564KB
	0.68	12.3	7.3	12.7	10.0	1.0	0.6	P10977-ND◆	.59	4.43	32.50	117.56	187.00	ECQ-E2684KB
	0.82	15.3	6.3	13.3	12.5	1.0	0.6	P10978-ND	.66	4.92	36.10	130.56	207.00	ECQ-E2824KB
	1.0	15.3	7.0	14.0	12.5	1.0	0.6	P10979-ND◆	.53	3.93	28.88	104.47	166.00	ECQ-E2105KB
	1.2	15.3	7.6	14.6	12.5	1.0	0.6	P10980-ND◆	.78	5.81	42.65	154.28	245.00	ECQ-E2125KB
	1.5	15.3	8.6	15.7	12.5	1.0	0.6	P10981-ND◆	.91	6.83	51.21	182.08	303.00	ECQ-E2155KB
	1.8	20.8	7.6	14.6	17.5	1.0	0.8	P10982-ND◆	1.00	7.52	56.39	200.48	333.00	ECQ-E2185KB
	2.2	20.8	8.4	15.6	17.5	1.0	0.8	P10983-ND◆	1.10	8.27	62.01	220.48	367.00	ECQ-E2225KB
	2.7	20.8	9.3	16.7	17.5	1.0	0.8	P10984-ND◆	1.24	9.33	70.00	248.88	414.00	ECQ-E2275KB
	3.3	20.8	10.5	17.9	17.5	1.0	0.8	P10985-ND◆	1.51	11.29	84.69	301.12	501.00	ECQ-E2335KB
	3.9	20.8	10.8	19.8	17.5	1.0	0.8	P10986-ND◆	2.13	16.10	121.54	455.78	790.00	ECQ-E2395KB
	4.7	20.8	11.9	21.0	17.5	1.0	0.8	P10987-ND◆	2.36	17.88	134.98	506.18	877.00	ECQ-E2475KB

◆ ***RoHS Compliant***

Panasonic ECQ-E(F) Series

Miniaturized Metallized Polyester Film Capacitors

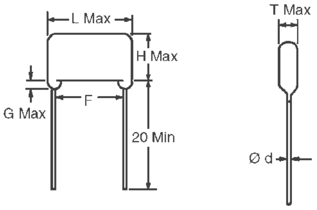

The type ECQ-E(F) series uses a dual side metallized polyester film with high dielectric constant(e) which makes it possible to produce large C-values in small dimensions and is an economical capacitor meeting high requirements for professional circuit design.

Features: • Self-healing property • Flame retardant epoxy resin coating

Applications: • Blocking • Bypassing • Filtering • Timing • Interference suppression • Low pulse applications

Specifications: • Reference standard: JIS C5115, C5151 • Operating temperature range: -40°C ~ 85°C (105°C, 75% of Rated voltage) • Rated voltage: 100V, 250V, 400V, 630V • Capacitance tolerance: ±10% (K) • Dissipation factor: 1.0% max. (20°C 1kHz) • Withstand voltage: Rated voltage DC100V ~ 630V (VDC) X 150% 1 minute between terminals • Insulation resistance: DC100V ~ 630V: C ≤ 0.33µF 9,000MΩ min., C > 0.33µF 3,000ΩVµF min.

Working Voltage (VDC)	Capacitance (µF)	Dimensions (mm)						Digi-Key Part No.	Pricing					Panasonic Part No.
		L	T	H	F	G	ød		1	10	100	500	1,000	
100	.01	7.8	4.6	7.7	5.0	1.0	0.5	EF1103-ND◆	.42	3.12	22.25	80.10	124.60	ECQ-E1103KF
	.012	7.8	4.5	7.6	5.0	1.0	0.5	EF1123-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1123KF
	.015	7.8	4.5	7.6	5.0	1.0	0.5	EF1153-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1153KF
	.018	7.8	4.6	7.7	5.0	1.0	0.5	EF1183-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1183KF
	.022	7.8	4.9	8.0	5.0	1.0	0.5	EF1223-ND◆	.42	3.12	22.25	80.10	124.60	ECQ-E1223KF
	.027	7.8	4.7	7.8	5.0	1.0	0.5	EF1273-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1273KF
	.033	7.8	4.6	7.7	5.0	1.0	0.5	EF1333-ND◆	.42	3.12	22.25	80.10	124.60	ECQ-E1333KF
	.039	7.8	4.9	8.0	5.0	1.0	0.5	EF1393-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1393KF
	.047	7.8	4.5	7.5	5.0	1.0	0.5	EF1473-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1473KF
	.056	7.8	4.8	7.9	5.0	1.0	0.5	EF1563-ND◆	.42	3.12	22.25	80.10	125.00	ECQ-E1563KF
	.068	7.8	4.8	7.9	5.0	1.0	0.5	EF1683-ND◆	.42	3.12	22.25	80.10	125.00	ECQ-E1683KF
	.082	7.8	4.7	9.9	5.0	1.0	0.5	EF1823-ND◆	.42	3.12	22.25	80.10	125.00	ECQ-E1823KF
	.1	7.8	5.0	10.0	5.0	1.0	0.5	EF1104-ND◆	.42	3.12	22.25	80.10	124.60	ECQ-E1104KF
	.12	10.3	4.5	7.5	7.5	1.0	0.6	EF1124-ND◆	.45	3.29	23.50	84.60	131.60	ECQ-E1124KF
	.15	10.3	4.5	7.5	7.5	1.0	0.6	EF1154-ND◆	.46	3.36	24.00	86.40	134.40	ECQ-E1154KF
	.18	10.3	4.8	7.9	7.5	1.0	0.6	EF1184-ND	.49	3.64	26.00	93.60	145.60	ECQ-E1184KF
	.22	10.3	5.0	8.0	7.5	1.0	0.6	EF1224-ND◆	.52	3.85	27.50	99.00	154.00	ECQ-E1224KF
	.27	10.3	4.5	12.0	7.5	1.0	0.6	EF1274-ND◆	.57	4.20	30.00	108.00	168.00	ECQ-E1274KF
	.33	10.3	6.0	10.7	7.5	1.0	0.6	EF1334-ND◆	.65	4.76	34.00	122.40	190.40	ECQ-E1334KF
	.39	10.3	6.3	11.0	7.5	1.0	0.6	EF1394-ND◆	.67	4.90	35.00	126.00	196.00	ECQ-E1394KF
	.47	10.3	6.0	12.0	7.5	1.0	0.6	EF1474-ND◆	.69	5.11	36.50	131.40	204.40	ECQ-E1474KF
	.56	12.0	5.5	10.9	10.0	1.0	0.6	EF1564-ND◆	.73	5.44	39.95	144.50	230.00	ECQ-E1564KF
	.68	12.0	6.0	11.9	10.0	1.0	0.6	EF1684-ND◆	.83	6.18	45.36	164.05	261.00	ECQ-E1684KF
	.82	12.0	6.0	13.5	10.0	1.0	0.6	EF1824-ND◆	.91	6.75	49.59	179.35	285.00	ECQ-E1824KF
	1.0	12.0	6.7	14.0	10.0	1.0	0.6	EF1105-ND◆	.99	7.36	54.05	195.50	310.50	ECQ-E1105KF
	1.2	18.5	5.5	12.8	15.0	1.0	0.6	EF1125-ND◆	1.14	8.51	62.51	226.10	359.10	ECQ-E1125KF
	1.5	18.5	6.0	13.4	15.0	1.0	0.8	EF1155-ND◆	1.14	8.59	64.40	228.96	380.65	ECQ-E1155KF
	1.8	18.5	6.5	14.4	15.0	1.0	0.8	EF1185-ND◆	1.38	10.32	77.40	275.20	457.52	ECQ-E1185KF
	2.2	18.5	7.0	15.0	15.0	1.0	0.8	EF1225-ND◆	1.56	11.70	87.75	312.00	518.70	ECQ-E1225KF
	2.7	18.5	8.0	15.8	15.0	1.0	0.8	EF1275-ND◆	1.78	13.32	99.90	355.20	590.52	ECQ-E1275KF
	3.3	18.5	8.5	16.5	15.0	1.0	0.8	EF1335-ND◆	2.26	16.92	126.90	451.20	750.12	ECQ-E1335KF
	3.9	26.0	7.0	16.4	22.5	1.0	0.8	EF1395-ND◆	2.24	16.99	128.20	480.75	833.30	ECQ-E1395KF
	4.7	26.0	7.5	17.0	22.5	1.0	0.8	EF1475-ND◆	2.53	19.19	144.80	543.00	941.20	ECQ-E1475KF
	5.6	26.0	8.3	17.5	22.5	1.0	0.8	EF1565-ND	3.01	22.76	171.80	644.25	1117.00	ECQ-E1565KF
	6.8	26.0	9.0	18.5	22.5	1.0	0.8	EF1685-ND◆	3.42	25.86	195.20	732.00	1269.00	ECQ-E1685KF
	8.2	26.0	10.0	20.0	22.5	1.5	0.8	EF1825-ND◆	3.94	29.81	225.00	843.75	1463.00	ECQ-E1825KF
	10.0	26.0	11.5	21.0	22.5	1.5	0.8	EF1106-ND◆	4.58	34.69	261.80	981.75	1701.70	ECQ-E1106KF
250	.01	10.3	4.3	7.4	7.5	1.0	0.6	EF2103-ND◆	.23	1.71	12.23	44.01	68.00	ECQ-E2103KF
	.012	10.3	4.4	7.5	7.5	1.0	0.6	EF2123-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2123KF
	.015	10.3	4.4	7.5	7.5	1.0	0.6	EF2153-ND◆	.28	1.91	13.45	46.46	73.00	ECQ-E2153KF
	.018	10.3	4.4	7.5	7.5	1.0	0.6	EF2183-ND◆	.28	1.91	13.45	46.46	73.00	ECQ-E2183KF
	.022	10.3	4.4	7.5	7.5	1.0	0.6	EF2223-ND	.23	1.71	12.23	44.01	68.00	ECQ-E2223KF
	.027	10.3	4.4	7.5	7.5	1.0	0.6	EF2273-ND◆	.28	1.91	13.45	46.46	73.00	ECQ-E2273KF
	.033	10.3	4.5	7.5	7.5	1.0	0.6	EF2333-ND◆	.23	1.71	12.23	44.01	68.00	ECQ-E2333KF
	.039	10.3	4.5	7.5	7.5	1.0	0.6	EF2393-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2393KF
	.047	10.3	4.5	7.5	7.5	1.0	0.6	EF2473-ND◆	.28	1.91	13.45	46.46	73.00	ECQ-E2473KF
	.056	10.3	4.8	7.9	7.5	1.0	0.6	EF2563-ND◆	.33	2.23	15.73	54.34	86.00	ECQ-E2563KF
	.068	10.3	4.5	7.5	7.5	1.0	0.6	EF2683-ND◆	.29	2.15	15.35	55.26	86.00	ECQ-E2683KF
	.082	10.3	4.9	8.0	7.5	1.0	0.6	EF2823-ND	.25	1.86	13.28	47.79	74.00	ECQ-E2823KF
	.1	10.3	5.8	8.4	7.5	1.0	0.6	EF2104-ND◆	.31	2.07	14.60	50.45	80.00	ECQ-E2104KF
	.12	10.3	6.0	9.0	7.5	1.0	0.6	EF2124-ND◆	.30	2.18	15.60	56.16	87.00	ECQ-E2124KF

◆ ***RoHS Compliant***

(Continued)

Panasonic ECQ-E(F) Series Miniaturized Metallized Polyester Film Capacitors *(Cont.)*

Working Voltage (VDC)	Capaci-tance (µF)	Dimensions (mm)						Digi-Key Part No.	Pricing					Panasonic Part No.
		L	T	H	F	G	ød		1	10	100	500	1,000	
250	.15	10.3	6.0	10.8	7.5	1.0	0.6	EF2154-ND◆	.32	2.33	16.65	59.94	93.00	ECQ-E2154KF
	.18	12.0	5.0	10.3	10.0	1.0	0.6	EF2184-ND	.38	2.80	20.03	72.09	112.00	ECQ-E2184KF
	.22	12.0	5.5	10.5	10.0	1.0	0.6	EF2224-ND◆	.40	2.91	20.80	74.88	116.00	ECQ-E2224KF
	.27	12.0	6.0	11.5	10.0	1.0	0.6	EF2274-ND◆	.43	3.17	22.63	81.45	127.00	ECQ-E2274KF
	.33	12.0	6.5	12.0	10.0	1.0	0.6	EF2334-ND◆	.40	3.00	22.00	79.56	126.00	ECQ-E2334KF
	.39	18.5	4.9	12.0	15.0	1.0	0.6	EF2394-ND	.51	3.83	28.11	101.66	161.00	ECQ-E2394KF
	.47	18.5	5.3	12.5	15.0	1.0	0.6	EF2474-ND◆	.51	3.83	28.11	101.66	161.00	ECQ-E2474KF
	.56	18.5	5.5	13.0	15.0	1.0	0.6	EF2564-ND◆	.53	3.93	28.86	104.38	166.00	ECQ-E2564KF
	.68	18.5	6.0	13.5	15.0	1.0	0.8	EF2684-ND◆	.54	3.99	29.33	106.08	168.00	ECQ-E2684KF
	.82	18.5	6.5	14.5	15.0	1.0	0.8	EF2824-ND◆	.56	4.16	30.55	110.50	176.00	ECQ-E2824KF
	1.0	18.5	7.4	15.0	15.0	1.0	0.8	EF2105-ND◆	.58	4.33	31.77	114.92	183.00	ECQ-E2105KF
	1.2	18.5	8.0	15.9	15.0	1.0	0.8	EF2125-ND◆	.72	5.32	39.10	141.44	225.00	ECQ-E2125KF
	1.5	18.5	9.0	16.8	15.0	1.0	0.8	EF2155-ND◆	.75	5.62	42.12	149.76	249.00	ECQ-E2155KF
	1.8	26.0	7.5	15.5	22.5	1.0	0.8	EF2185-ND◆	.96	7.18	53.82	191.36	318.00	ECQ-E2185KF
	2.2	26.0	8.5	16.3	22.5	1.0	0.8	EF2225-ND◆	.92	6.86	51.48	183.04	304.00	ECQ-E2225KF
	2.7	26.0	9.4	17.0	22.5	1.0	0.8	EF2275-ND◆	1.17	8.80	65.99	234.64	390.00	ECQ-E2275KF
	3.3	26.0	10.3	18.0	22.5	1.5	0.8	EF2335-ND◆	1.19	8.89	66.69	237.12	394.00	ECQ-E2335KF
	3.9	26.0	11.0	20.5	22.5	1.5	0.8	EF2395-ND◆	1.14	8.60	64.90	243.38	422.00	ECQ-E2395KF
	4.7	26.0	12.0	21.5	22.5	1.5	0.8	EF2475-ND◆	1.27	9.65	72.80	273.00	473.00	ECQ-E2475KF
	5.6	31.0	11.8	21.0	27.5	1.5	0.8	EF2565-ND◆	2.18	16.51	124.60	467.25	810.00	ECQ-E2565KF
	6.8	31.0	13.0	22.4	27.5	1.5	0.8	EF2685-ND◆	2.32	17.56	132.50	496.88	861.00	ECQ-E2685KF
	8.2	31.0	14.3	23.5	27.5	1.5	0.8	EF2825-ND◆	2.50	18.96	143.12	536.70	930.00	ECQ-E2825KF
	10.0	31.0	15.9	25.8	27.5	1.5	0.8	EF2106-ND◆	4.48	33.90	255.84	959.40	1663.00	ECQ-E2106KF
400	.01	10.3	4.3	7.4	7.5	1.0	0.6	EF4103-ND◆	.27	1.97	14.05	50.58	79.00	ECQ-E4103KF
	.012	10.3	4.4	7.5	7.5	1.0	0.6	EF4123-ND◆	.27	1.97	14.05	50.58	79.00	ECQ-E4123KF
	.015	10.3	4.4	7.5	7.5	1.0	0.6	EF4153-ND	.27	1.97	14.05	50.58	79.00	ECQ-E4153KF
	.018	10.3	4.4	7.5	7.5	1.0	0.6	EF4183-ND	.27	1.97	14.05	50.58	79.00	ECQ-E4183KF
	.022	10.3	4.8	7.9	7.5	1.0	0.6	EF4223-ND◆	.48	3.50	25.00	90.00	140.00	ECQ-E4223KF
	.027	10.3	5.5	8.0	7.5	1.0	0.6	EF4273-ND◆	.48	3.50	25.00	90.00	140.00	ECQ-E4273KF
	.033	10.3	6.0	9.0	7.5	1.0	0.6	EF4333-ND◆	.48	3.50	25.00	90.00	140.00	ECQ-E4333KF
	.039	12.0	4.9	8.0	10.0	1.0	0.6	EF4393-ND◆	.40	2.94	21.00	75.60	118.00	ECQ-E4393KF
	.047	12.0	5.0	8.3	10.0	1.0	0.6	EF4473-ND◆	.48	3.50	25.00	90.00	140.00	ECQ-E4473KF
	.056	12.0	5.0	10.0	10.0	1.0	0.6	EF4563-ND◆	.49	3.61	25.75	92.70	144.00	ECQ-E4563KF
	.068	12.0	5.4	10.5	10.0	1.0	0.6	EF4683-ND	.55	4.08	29.13	104.85	163.00	ECQ-E4683KF
	.082	12.0	5.8	11.0	10.0	1.0	0.6	EF4823-ND	.51	3.75	26.80	96.48	150.00	ECQ-E4823KF
	.1	12.0	6.3	12.0	10.0	1.0	0.6	EF4104-ND◆	.53	3.92	28.00	100.80	157.00	ECQ-E4104KF
	.12	18.5	5.0	10.0	15.0	1.0	0.6	EF4124-ND◆	.55	4.06	29.82	107.87	171.00	ECQ-E4124KF
	.15	18.5	5.0	12.4	15.0	1.0	0.6	EF4154-ND◆	.56	4.20	30.81	111.44	177.00	ECQ-E4154KF
	.18	18.5	5.4	12.5	15.0	1.0	0.6	EF4184-ND◆	.60	4.46	32.76	118.49	188.00	ECQ-E4184KF
	.22	18.5	5.9	13.0	15.0	1.0	0.6	EF4224-ND◆	.70	5.23	38.38	138.81	220.00	ECQ-E4224KF
	.27	18.5	6.5	14.3	15.0	1.0	0.8	EF4274-ND◆	.71	5.26	38.63	139.74	222.00	ECQ-E4274KF
	.33	18.5	7.0	14.9	15.0	1.0	0.8	EF4334-ND◆	.76	5.66	41.55	150.28	239.00	ECQ-E4334KF
	.39	18.5	7.5	15.4	15.0	1.0	0.8	EF4394-ND◆	.83	6.16	45.21	163.54	260.00	ECQ-E4394KF
	.47	18.5	7.8	17.0	15.0	1.0	0.8	EF4474-ND◆	.95	7.06	51.82	187.43	298.00	ECQ-E4474KF
	.56	26.0	6.5	16.0	22.5	1.0	0.8	EF4564-ND◆	.96	7.18	53.82	191.36	318.00	ECQ-E4564KF
	.68	26.0	7.0	16.5	22.5	1.0	0.8	EF4684-ND◆	.77	5.77	43.29	153.92	256.00	ECQ-E4684KF
	.82	26.0	7.9	17.3	22.5	1.0	0.8	EF4824-ND◆	1.10	8.27	62.01	220.48	367.00	ECQ-E4824KF
	1.0	26.0	8.5	18.9	22.5	1.0	0.8	EF4105-ND◆	1.17	8.77	65.77	233.84	389.00	ECQ-E4105KF
	1.2	26.0	9.5	18.9	22.5	1.0	0.8	EF4125-ND◆	1.77	13.39	101.08	379.05	657.00	ECQ-E4125KF
	1.5	31.0	9.5	19.0	27.5	1.0	0.8	EF4155-ND◆	2.28	17.23	130.00	487.50	845.00	ECQ-E4155KF
	1.8	31.0	11.0	20.5	27.5	1.5	0.8	EF4185-ND◆	2.28	17.23	130.00	487.50	845.00	ECQ-E4185KF
	2.2	31.0	11.0	22.0	27.5	1.5	0.8	EF4225-ND◆	2.94	22.23	167.78	629.18	1091.00	ECQ-E4225KF
630	.01	12.0	4.5	7.5	10.0	1.0	0.6	EF6103-ND◆	.32	2.37	16.90	60.84	95.00	ECQ-E6103KF
	.012	12.0	4.5	7.8	10.0	1.0	0.6	EF6123-ND	.40	2.95	21.08	75.87	118.00	ECQ-E6123KF
	.015	12.0	5.0	8.2	10.0	1.0	0.6	EF6153-ND	.44	3.28	23.40	84.24	131.00	ECQ-E6153KF
	.018	12.0	4.9	10.0	10.0	1.0	0.6	EF6183-ND◆	.45	3.35	23.93	86.13	134.00	ECQ-E6183KF
	.022	12.0	5.3	10.5	10.0	1.0	0.6	EF6223-ND◆	.46	3.42	24.45	88.02	137.00	ECQ-E6223KF
	.027	12.0	5.5	10.9	10.0	1.0	0.6	EF6273-ND	.47	3.46	24.70	88.92	138.00	ECQ-E6273KF
	.033	12.0	6.0	11.9	10.0	1.0	0.6	EF6333-ND◆	.49	3.59	25.68	92.43	144.00	ECQ-E6333KF
	.039	12.0	6.0	13.4	10.0	1.0	0.6	EF6393-ND◆	.48	3.53	25.23	90.81	141.00	ECQ-E6393KF
	.047	12.0	6.5	13.5	10.0	1.0	0.6	EF6473-ND◆	.48	3.53	25.23	90.81	141.00	ECQ-E6473KF
	.056	18.5	5.4	10.5	15.0	1.0	0.6	EF6563-ND◆	.48	3.60	26.41	95.54	152.00	ECQ-E6563KF
	.068	18.5	5.8	11.0	15.0	1.0	0.6	EF6683-ND	.50	3.73	27.38	99.03	157.00	ECQ-E6683KF
	.082	18.5	6.5	12.0	15.0	1.0	0.6	EF6823-ND◆	.51	3.83	28.11	101.66	161.00	ECQ-E6823KF
	.1	18.5	6.3	14.0	15.0	1.0	0.6	EF6104-ND◆	.55	4.13	30.32	109.65	174.00	ECQ-E6104KF
	.12	18.5	6.3	14.5	15.0	1.0	0.8	EF6124-ND	.58	4.29	31.54	114.07	181.00	ECQ-E6124KF
	.15	18.5	7.5	15.4	15.0	1.0	0.8	EF6154-ND◆	.60	4.49	32.99	119.34	190.00	ECQ-E6154KF
	.18	18.5	8.0	16.0	15.0	1.0	0.8	EF6184-ND◆	.84	6.22	45.71	165.33	263.00	ECQ-E6184KF
	.22	18.5	9.0	16.5	15.0	1.0	0.8	EF6224-ND◆	.89	6.66	48.88	176.80	281.00	ECQ-E6224KF
	.27	26.0	7.0	16.5	22.5	1.0	0.8	EF6274-ND◆	.85	6.40	47.97	170.56	284.00	ECQ-E6274KF
	.33	26.0	7.8	17.0	22.5	1.0	0.8	EF6334-ND◆	.87	6.55	49.14	174.72	290.00	ECQ-E6334KF
	.39	26.0	8.5	17.9	22.5	1.0	0.8	EF6394-ND◆	1.09	8.18	61.31	218.00	362.00	ECQ-E6394KF
	.47	26.0	9.3	18.5	22.5	1.0	0.8	EF6474-ND◆	1.23	9.24	69.28	246.32	410.00	ECQ-E6474KF
	.56	26.0	10.0	20.0	22.5	1.5	0.8	EF6564-ND◆	1.29	9.67	72.54	257.92	429.00	ECQ-E6564KF
	.68	26.0	11.5	21.0	22.5	1.5	0.8	EF6684-ND◆	1.20	9.09	68.64	257.40	446.00	ECQ-E6684KF
	.82	31.0	11.3	20.5	27.5	1.5	0.8	EF6824-ND◆	1.74	13.15	99.22	372.08	645.00	ECQ-E6824KF
	1.0	31.0	12.5	21.9	27.5	1.5	0.8	EF6105-ND◆	1.82	13.78	104.00	390.00	676.00	ECQ-E6105KF
	1.2	31.0	13.5	23.0	27.5	1.5	0.8	EF6125-ND◆	1.84	13.92	105.04	393.90	683.00	ECQ-E6125KF
	1.5	31.0	15.3	24.7	27.5	1.5	0.8	EF6155-ND◆	2.09	15.79	119.20	447.00	775.00	ECQ-E6155KF
	1.8	31.0	16.8	27.0	27.5	1.5	0.8	EF6185-ND◆	2.32	17.56	132.50	496.88	861.00	ECQ-E6185KF
	2.2	31.0	19.5	29.0	27.5	1.5	0.8	EF6225-ND◆	3.57	27.01	203.84	764.40	1325.00	ECQ-E6225KF

◆ ***RoHS Compliant***

Panasonic ECQ-E(H) Series Metallized Polyester Film Capacitors

RoHS COMPLIANT

The ECQ-E(H) series has a non-inductive construction using a metallized Polyester film with a flame retardant epoxy resin coating for an active filter.

Features: • Smaller size • Self-healing property • Excellent electrical characteristics • Flame retardant epoxy resin coating

Application: Active filter circuit

Specifications: • Operating Temperature Range: -40°C ~ 105°C • Rated Voltage: 450VDC (Derating of rated voltage by 1.25%/C° at more than 85°C) • Capacitance Tolerance: ±10% • Dissipation Factor (tanδ): tanδ ≤ 1.0% (20°C, 1kHz) • Withstand Voltage: Between terminals: Rated (450VDC) X 150% 60 seconds. Between terminal to enclosure: Rated voltage (450VDC) X 200% 1 second to 5 seconds • Insulation Resistance (IR): IR ≥ 3000 MΩ (20°C, 100VDC, 60 seconds)

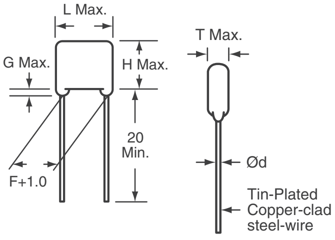

Voltage (VDC)	Cap. (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each					Panasonic Part No.
		L	T	H	F	G	ød		1	10	100	500	1,000	
450	0.47	12.7	7.7	16.0	10.0	1.0	0.6	E6825-ND	1.21	.86	.64	.46	.38	ECQ-E2W474KH
	0.68	18.2	6.9	15.3	15.0	1.0	0.8	E6826-ND	1.29	.92	.69	.49	.41	ECQ-E2W684KH
	1.0	18.2	8.5	16.9	15.0	1.0	0.8	E6827-ND	1.60	1.13	.85	.61	.51	ECQ-E2W105KH
	1.5	25.7	8.2	16.2	22.5	1.0	0.8	E6828-ND	2.17	1.64	1.24	.93	.83	ECQ-E2W155KH
	2.2	25.7	9.4	19.7	22.5	1.0	0.8	E6829-ND	2.61	1.98	1.50	1.12	1.00	ECQ-E2W225KH

Metallized Polyester Film Capacitors MKT 370/371/372/373

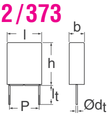

FEATURES: • Low-inductive wound cell of metallized (PETP) film • Potted with epoxy resin in a flame-retardant case • Radial leads of solder-coated wire • Withstands solvents and rinsing liquids • Small stand-off pips to allow removal of solder flux • Suitable for high density packaging **APPLICATIONS:** • Blocking and coupling • Bypass and energy reservoir **SPECIFICATIONS: Rated Temperature:** 85°C **Maximum Application Temperature:** 105°C

Volt. (DC)	Cap. (µF)	Tolerance	Dimensions (mm)						Digi-Key Part No.	Pricing			Vishay Part No.
			b	h	l	P	l_t	$ød_t$		10	100	1,000	
MKT 370 Series													
63	.056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1633-ND	1.36	9.08	68.10	2222 370 11563
	.068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1635-ND	1.37	9.14	68.55	2222 370 11683
	.082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1637-ND	1.38	9.22	69.15	2222 370 11823
	.10	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1621-ND◆	1.25	8.32	62.40	2222 370 11104
	.12	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1623-ND	1.51	10.06	75.45	2222 370 11124
	.15	±5%	2.5	6.5	7.2	5.08	4.0	.50	3014PH-ND◆	1.79	11.96	89.70	2222 370 12154
	.15	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1625-ND◆	1.68	11.18	83.85	2222 370 11154
	.18	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1627-ND	1.86	12.38	92.85	2222 370 11184
	.22	±5%	3.5	8.0	7.2	5.08	4.0	.50	3015PH-ND◆	2.19	14.60	109.50	2222 370 12224
	.22	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1628-ND◆	2.05	13.64	102.30	2222 370 11224
	.27	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1629-ND	2.36	15.70	117.75	2222 370 11274
	.33	±5%	3.5	8.0	7.2	5.08	4.0	.50	3016PH-ND◆	2.78	18.52	138.90	2222 370 12334
	.33	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1630-ND	2.60	17.34	130.05	2222 370 11334
	.39	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1631-ND◆	2.96	19.70	147.75	2222 370 11394
	.47	±5%	3.5	8.0	7.2	5.08	4.0	.50	3017PH-ND◆	3.55	23.66	177.45	2222 370 12474
	.47	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1632-ND◆	3.31	22.04	165.30	2222 370 11474
	.56	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1634-ND	3.89	25.90	194.25	2222 370 11564
	.68	±5%	4.5	9.0	7.2	5.08	4.0	.50	3018PH-ND◆	4.77	31.82	238.65	2222 370 12684
	.68	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1636-ND◆	4.47	29.78	223.35	2222 370 11684
	.82	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1638-ND	4.71	31.42	235.65	2222 370 11824
	1.0	±5%	6.0	11.0	7.2	5.08	4.0	.50	3019PH-ND◆	5.57	37.12	278.40	2222 370 12105
	1.0	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1622-ND◆	5.17	34.48	258.60	2222 370 11105
	1.2†	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1624-ND	5.63	37.54	281.55	2222 370 11125
	1.5†	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1626-ND◆	5.66	37.74	283.05	2222 370 11155
100	.012	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1640-ND	1.19	7.92	59.40	2222 370 21123
	.015	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1642-ND◆	1.21	8.06	60.45	2222 370 21153
	.018	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1644-ND	1.23	8.22	61.65	2222 370 21183
	.022	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1646-ND	1.25	8.36	62.70	2222 370 21223
	.027	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1648-ND	1.28	8.52	63.90	2222 370 21273
	.033	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1650-ND◆	1.30	8.68	65.10	2222 370 21333
	.039	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1652-ND	1.33	8.84	66.30	2222 370 21393
	.047	±5%	2.5	6.5	7.2	5.08	4.0	.50	3011PH-ND◆	1.44	9.62	72.15	2222 370 22473
	.047	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1654-ND	1.35	8.98	67.35	2222 370 21473
	.056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1656-ND	1.63	10.86	81.45	2222 370 21563
	.068	±5%	2.5	6.5	7.2	5.08	4.0	.50	3012PH-ND◆	1.87	12.44	93.30	2222 370 22683
	.068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1657-ND	1.74	11.62	87.15	2222 370 21683
	.082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1658-ND	1.86	12.38	92.85	2222 370 21823
	.10	±5%	2.5	8.0	7.2	5.08	4.0	.50	3013PH-ND◆	2.12	14.10	105.75	2222 370 22104
	.10	±10%	2.5	8.0	7.2	5.08	4.0	.50	BC1639-ND◆	1.98	13.18	98.85	2222 370 21104
	.12	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1641-ND	2.14	14.24	106.80	2222 370 21124
	.15	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1643-ND	2.36	15.70	117.75	2222 370 21154
	.18	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1645-ND	2.60	17.34	130.05	2222 370 21184
	.22	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1647-ND◆	2.82	18.82	141.15	2222 370 21224
	.27	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1649-ND	3.12	20.80	156.00	2222 370 21274
	.33	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1651-ND	3.37	22.44	168.30	2222 370 21334
	.39	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1653-ND	3.83	25.50	191.25	2222 370 21394
	.47	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1655-ND◆	4.16	27.74	208.05	2222 370 21474
250	.0047	±5%	2.5	6.5	7.2	5.08	4.0	.50	3005PH-ND◆	1.24	8.28	62.10	2222 370 42472
	.0068	±5%	2.5	6.5	7.2	5.08	4.0	.50	3006PH-ND◆	1.24	8.28	62.10	2222 370 42682
	.010	±5%	2.5	6.5	7.2	5.08	4.0	.50	3007PH-ND◆	1.27	8.46	63.45	2222 370 42103
	.015	±5%	2.5	6.5	7.2	5.08	4.0	.50	3008PH-ND◆	1.32	8.80	66.00	2222 370 42153
	.022	±5%	3.5	8.0	7.2	5.08	4.0	.50	3009PH-ND◆	1.49	9.96	74.70	2222 370 42223
	.033	±5%	3.5	8.0	7.2	5.08	4.0	.50	3010PH-ND◆	1.74	11.60	87.00	2222 370 42333
400	.0010	±5%	2.5	6.5	7.2	5.08	4.0	.50	3001PH-ND◆	1.24	8.28	62.10	2222 370 52102
	.0010	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1659-ND	1.16	7.76	58.20	2222 370 51102
	.0012	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1661-ND	1.16	7.76	58.20	2222 370 51122
	.0015	±5%	2.5	6.5	7.2	5.08	4.0	.50	3002PH-ND◆	1.24	8.28	62.10	2222 370 52152
	.0015	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1663-ND	1.16	7.76	58.20	2222 370 51152
	.0018	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1665-ND	1.16	7.76	58.20	2222 370 51182
	.0022	±5%	2.5	6.5	7.2	5.08	4.0	.50	3003PH-ND◆	1.24	8.28	62.10	2222 370 52222
	.0022	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1667-ND◆	1.16	7.76	58.20	2222 370 51222
	.0027	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1669-ND	1.16	7.76	58.20	2222 370 51272
	.0033	±5%	2.5	6.5	7.2	5.08	4.0	.50	3004PH-ND	1.24	8.28	62.10	2222 370 52332
	.0033	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1671-ND◆	1.16	7.76	58.20	2222 370 51332
	.0039	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1673-ND◆	1.19	7.92	59.40	2222 370 51392
	.0047	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1675-ND◆	1.21	8.06	60.45	2222 370 51472
	.0056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1677-ND◆	1.23	8.22	61.65	2222 370 51562
	.0068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1678-ND	1.25	8.36	62.70	2222 370 51682
400	.0082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1679-ND◆	1.28	8.52	63.90	2222 370 51822
	.01	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1660-ND◆	1.30	8.68	65.10	2222 370 51103
	.012	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1662-ND	1.33	8.84	66.30	2222 370 51123
	.015	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1664-ND◆	1.35	8.98	67.35	2222 370 51153
	.018	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1666-ND◆	1.40	9.30	69.75	2222 370 51183
	.022	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1668-ND	1.51	10.08	75.60	2222 370 51223
	.027	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1670-ND	1.65	11.02	82.65	2222 370 51273
	.033	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1672-ND◆	1.77	11.78	88.35	2222 370 51333
	.039	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1674-ND	1.88	12.54	94.05	2222 370 51393
	.047	±10%	6.0	11.0	7.2	5.08	4 .0	.50	BC1676-ND◆	2.02	13.48	101.10	2222 370 51473
MKT 371 Series													
250	.018	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1716-ND	2.45	16.30	122.25	2222 371 41183
	.039	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1720-ND	2.51	16.74	125.55	2222 371 41393
400	.0068	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1732-ND	2.38	15.86	118.95	2222 371 51682
	.0082	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1733-ND	2.40	16.02	120.15	2222 371 51822
MKT 372 Series													
100	.27	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1739-ND	3.12	20.80	156.00	2222 372 21274
	.33	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1740-ND	3.37	22.44	168.30	2222 372 21334
MKT 373 Series													
100	.33	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1768-ND	3.67	24.48	183.60	2222 373 21334
	.39	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1769-ND	3.80	25.30	189.75	2222 373 21394
	.47	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1770-ND	3.92	26.12	195.90	2222 373 21474
	.56	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1771-ND	4.41	29.38	220.35	2222 373 21564
	.68	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1772-ND◆	4.90	32.64	244.80	2222 373 21684
	.82	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1773-ND	5.36	35.70	267.75	2222 373 21824
	1.0	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1763-ND◆	5.84	38.96	292.20	2222 373 21105
	1.2	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1764-ND	6.61	44.06	330.45	2222 373 21125
	1.5	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1765-ND◆	7.80	52.02	390.15	2222 373 21155
	1.8	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1766-ND◆	9.27	61.82	463.65	2222 373 21185
	2.2	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1767-ND◆	10.99	73.24	549.30	2222 373 21225
250	.15	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1775-ND	2.93	19.56	146.70	2222 373 41154
	.18	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1777-ND	3.18	21.22	159.15	2222 373 41184
	.22	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1779-ND◆	3.43	22.84	171.30	2222 373 41224
	.27	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1781-ND	3.67	24.48	183.60	2222 373 41274
	.33	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1782-ND◆	3.92	26.12	195.90	2222 373 41334
	.39	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1784-ND	4.41	29.38	220.35	2222 373 41394
	.47	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1786-ND◆	4.90	32.64	244.80	2222 373 41474
	.56	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1788-ND	5.36	35.70	267.75	2222 373 41564
	.68	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1789-ND◆	5.63	37.54	281.55	2222 373 41684
	.82	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1790-ND◆	5.84	38.96	292.20	2222 373 41824
	1.0	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1774-ND◆	6.33	42.22	316.65	2222 373 41105
	1.2	±10%	10.0	16.5	17.5	15.0	5.0	.80	BC1791-ND◆	7.77	51.82	388.65	2222 373 43125
	1.5	±10%	8.5	18.0	26.0	22.5	5.0	.80	BC1776-ND◆	9.76	65.08	488.10	2222 373 41155
250	1.8	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1778-ND◆	11.72	78.14	586.05	2222 373 41185
	2.2	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1780-ND◆	13.68	91.18	683.85	2222 373 41225
	2.7	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1792-ND	15.21	101.38	760.35	2222 373 43275
	3.3	±10%	13.0	23.0	31.0	27.5	5.0	.80	BC1783-ND◆	18.33	122.20	916.50	2222 373 41335
	3.9	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1785-ND	21.48	143.20	1074.00	2222 373 41395
	4.7	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1787-ND◆	25.80	171.98	1289.85	2222 373 41475
400	.047	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1801-ND	3.18	21.22	159.15	2222 373 51473
	.056	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1802-ND	3.24	21.62	162.15	2222 373 51563
	.068	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1803-ND	3.31	22.04	165.30	2222 373 51683
	.082	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1805-ND	3.37	22.44	168.30	2222 373 51823
	.10	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1793-ND◆	3.46	23.06	172.95	2222 373 51104
	.12	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1794-ND	3.92	26.12	195.90	2222 373 51124
	.15	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1795-ND	4.41	29.38	220.35	2222 373 51154
	.18	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1797-ND◆	4.90	32.64	244.80	2222 373 51184
	.22	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1798-ND◆	5.36	35.70	267.75	2222 373 51224
	.27	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1799-ND	6.12	40.80	306.00	2222 373 51274
	.33	±10%	8.5	15.0	17.5	15 .0	5.0	.80	BC1800-ND◆	6.83	45.50	341.25	2222 373 51334
	.39	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1808-ND	7.19	47.94	359.55	2222 373 53394
	.47	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1809-ND◆	7.40	49.36	370.20	2222 373 53474
	.56	±10%	10.0	16.5	17.5	15.0	5.0	.80	BC1810-ND	8.63	57.52	431.40	2222 373 53564
	.68	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1804-ND◆	9.76	65.08	488.10	2222 373 51684
	.82	±10%	8.5	18.0	26.0	22.5	5.0	.80	BC1811-ND	10.56	70.38	527.85	2222 373 53824
	1.0	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1806-ND◆	11.11	74.06	555.45	2222 373 53105
	1.2	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1807-ND	14.02	93.44	700.80	2222 373 53125
	1.5	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1796-ND◆	17.08	113.84	853.80	2222 373 51155

† U_{Rdc} = 50V and U_{Rac} = 32V ◆ ***RoHS Compliant***

Panasonic® PPS Film Capacitors - ECHS

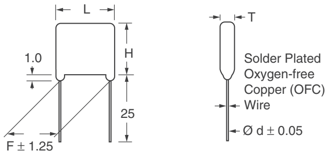

Non-inductive construction using PPS film as designed for high heat resistance and high frequency applications.

Features: • Wide operating temperature range -40°C ~ 125°C • Excellent temperature coefficient -100PPM/°C • Excellent frequency characteristics

Applications: • Automotive • Oscillation circuits

Electrical Specifications: • Temperature Range: -40°C ~ 125°C • Rated Voltage: 50V DC, 100VDC • Capacitance Range: 0.0001 to 0.47µF • Capacitance Tolerance: ±2%(G) & ±5%(J) • Dissipation Factor: 0.3% maximum at 1kHz and 20°C • Withstand Voltage: 1 ~ 5 seconds at 250% of rated voltage between terminals • Insulation Resistance: 45,000MΩ minimum, for values equal to or less than .33µF. 15,000 MΩ minimum, for greater than .33µF (20°C, 100VDC, 60s)

WV	Cap.	Toler-	Dimensions (mm)					Digi-Key	Price Each				Panasonic
DC	µF	ance	L	T	H	F	d	Part No.	1	10	100	1,000	Part No.
50	.001	2%	8.5	4.0	7.6	5.0	0.60	PS1H102G-ND◆	.66	.57	.48	.29	ECH-S1H102GZ
	.0012	2%	8.5	4.0	7.8	5.0	0.60	PS1H122G-ND◆	.66	.57	.48	.29	ECH-S1H122GZ
	.0015	2%	8.5	4.0	7.6	5.0	0.60	PS1H152G-ND◆	.66	.57	.48	.29	ECH-S1H152GZ
	.0018	2%	8.5	4.0	7.6	5.0	0.60	PS1H182G-ND◆	.66	.57	.48	.29	ECH-S1H182GZ
	.0022	2%	8.5	4.0	7.8	5.0	0.60	PS1H222G-ND◆	.66	.57	.48	.29	ECH-S1H222GZ
	.0027	2%	8.5	4.0	7.8	5.0	0.60	PS1H272G-ND◆	.66	.57	.48	.29	ECH-S1H272GZ
	.0033	2%	8.5	4.0	8.0	5.0	0.60	PS1H332G-ND◆	.66	.57	.48	.29	ECH-S1H332GZ
	.0039	2%	8.5	4.0	7.8	5.0	0.60	PS1H392G-ND◆	.66	.57	.48	.29	ECH-S1H392GZ
	.0047	2%	8.5	4.0	8.0	5.0	0.60	PS1H472G-ND◆	.66	.57	.48	.29	ECH-S1H472GZ
	.0056	2%	8.5	4.0	8.2	5.0	0.60	PS1H562G-ND◆	.66	.57	.48	.29	ECH-S1H562GZ
	.0068	2%	8.5	4.0	7.6	5.0	0.60	PS1H682G-ND◆	.66	.57	.48	.29	ECH-S1H682GZ
	.0082	2%	8.5	4.0	7.6	5.0	0.60	PS1H822G-ND	.66	.57	.48	.29	ECH-S1H822GZ
	.01	2%	8.5	4.0	7.6	5.0	0.60	PS1H103G-ND◆	.71	.61	.51	.31	ECH-S1H103GZ
	.012	2%	8.5	4.0	8.0	5.0	0.60	PS1H123G-ND◆	.77	.67	.56	.33	ECH-S1H123GZ
	.015	2%	12.0	4.5	7.8	7.5	0.60	PS1H153G-ND◆	.79	.68	.57	.34	ECH-S1H153GZ
	.018	2%	12.0	4.5	8.0	7.5	0.60	PS1H183G-ND◆	.87	.75	.62	.38	ECH-S1H183GZ
	.022	2%	12.0	4.5	8.2	7.5	0.60	PS1H223G-ND◆	.94	.81	.68	.41	ECH-S1H223GZ
	.027	2%	12.0	4.5	10.4	7.5	0.60	PS1H273G-ND◆	1.03	.89	.74	.44	ECH-S1H273GZ
	.033	2%	12.0	4.5	10.6	7.5	0.60	PS1H333G-ND◆	1.13	.97	.81	.49	ECH-S1H333GZ
	.039	2%	12.0	5.0	10.4	7.5	0.60	PS1H393G-ND◆	1.22	1.05	.87	.52	ECH-S1H393GZ
	.047	2%	12.0	5.0	10.8	7.5	0.60	PS1H473G-ND◆	1.31	1.13	.94	.57	ECH-S1H473GZ
	.056	2%	12.0	5.5	11.0	7.5	0.60	PS1H563G-ND◆	1.45	1.25	1.04	.63	ECH-S1H563GZ
	.068	2%	14.5	5.0	11.2	10.00	0.60	PS1H683G-ND◆	1.60	1.37	1.15	.69	ECH-S1H683GZ
	.082	2%	14.5	5.5	11.6	10.00	0.60	PS1H823G-ND	1.75	1.50	1.25	.75	ECH-S1H823GZ
	.1	2%	14.5	6.0	12.0	10.00	0.60	PS1H104G-ND	1.95	1.68	1.40	.84	ECH-S1H104GZ
	.12	2%	14.5	6.5	12.4	10.00	0.60	PS1H124G-ND◆	2.21	1.90	1.58	.95	ECH-S1H124GZ
	.15	2%	17.0	6.5	12.4	12.50	0.60	PS1H154G-ND◆	2.54	2.18	1.82	1.09	ECH-S1H154GZ
	.18	2%	17.0	6.5	14.0	12.50	0.60	PS1H184G-ND	2.85	2.45	2.04	1.22	ECH-S1H184GZ
	.22	2%	17.0	7.0	14.4	12.50	0.60	PS1H224G-ND◆	3.22	2.77	2.31	1.38	ECH-S1H224GZ
	.27	2%	17.0	7.5	15.2	12.50	0.80	PS1H274G-ND	3.64	3.13	2.61	1.56	ECH-S1H274GZ
	.33	2%	17.0	8.5	15.8	12.50	0.80	PS1H334G-ND	4.09	3.51	2.93	1.75	ECH-S1H334GZ
	.39	2%	17.0	9.0	16.4	12.50	0.80	PS1H394G-ND◆	4.53	3.89	3.24	1.94	ECH-S1H394GZ
	.47	2%	17.0	10.0	17.2	12.50	0.80	PS1H474G-ND◆	5.12	4.39	3.66	2.19	ECH-S1H474GZ
	.001	5%	8.5	4.0	7.6	5.0	0.60	PS1H102J-ND◆	.26	.23	.19	.12	ECH-S1H102JZ
	.0012	5%	8.5	4.0	7.8	5.0	0.60	PS1H122J-ND◆	.26	.23	.19	.12	ECH-S1H122JZ
	.0015	5%	8.5	4.0	7.6	5.0	0.60	PS1H152J-ND◆	.26	.23	.19	.12	ECH-S1H152JZ
	.0018	5%	8.5	4.0	7.6	5.0	0.60	PS1H182J-ND◆	.26	.23	.19	.12	ECH-S1H182JZ
	.0022	5%	8.5	4.0	7.8	5.0	0.60	PS1H222J-ND◆	.26	.23	.19	.12	ECH-S1H222JZ
	.0027	5%	8.5	4.0	7.8	5.0	0.60	PS1H272J-ND◆	.26	.23	.19	.12	ECH-S1H272JZ
	.0033	5%	8.5	4.0	8.0	5.0	0.60	PS1H332J-ND	.26	.23	.19	.12	ECH-S1H332JZ
	.0039	5%	8.5	4.0	7.8	5.0	0.60	PS1H392J-ND◆	.26	.23	.19	.12	ECH-S1H392JZ
	.0047	5%	8.5	4.0	8.0	5.0	0.60	PS1H472J-ND◆	.26	.23	.19	.12	ECH-S1H472JZ
	.0056	5%	8.5	4.0	8.2	5.0	0.60	PS1H562J-ND◆	.26	.23	.19	.12	ECH-S1H562JZ
	.0068	5%	8.5	4.0	7.6	5.0	0.60	PS1H682J-ND◆	.26	.23	.19	.12	ECH-S1H682JZ
	.0082	5%	8.5	4.0	7.6	5.0	0.60	PS1H822J-ND	.26	.23	.19	.12	ECH-S1H822JZ
	.01	5%	8.5	4.0	7.8	5.0	0.60	PS1H103J-ND◆	.28	.24	.20	.12	ECH-S1H103JZ
	.012	5%	8.5	4.0	8.0	5.0	0.60	PS1H123J-ND◆	.32	.28	.23	.14	ECH-S1H123JZ
	.015	5%	12.0	4.5	7.8	7.5	0.60	PS1H153J-ND◆	.36	.31	.26	.16	ECH-S1H153JZ
	.018	5%	12.0	4.5	8.0	7.5	0.60	PS1H183J-ND	.38	.33	.27	.17	ECH-S1H183JZ
	.022	5%	12.0	4.5	8.2	7.5	0.60	PS1H223J-ND◆	.44	.38	.32	.19	ECH-S1H223JZ
	.027	5%	12.0	4.5	10.4	7.5	0.60	PS1H273J-ND◆	.47	.41	.34	.21	ECH-S1H273JZ
	.033	5%	12.0	4.5	10.6	7.5	0.60	PS1H333J-ND◆	.50	.43	.36	.22	ECH-S1H333JZ
	.039	5%	12.0	5.0	10.4	7.5	0.60	PS1H393J-ND	.52	.45	.37	.23	ECH-S1H393JZ
	.047	5%	12.0	5.0	10.8	7.5	0.60	PS1H473J-ND◆	.54	.47	.39	.24	ECH-S1H473JZ
	.056	5%	12.0	5.5	11.0	7.5	0.60	PS1H563J-ND	.61	.53	.44	.27	ECH-S1H563JZ
50	.068	5%	14.5	5.0	11.2	10.00	0.60	PS1H683J-ND	.69	.59	.49	.30	ECH-S1H683JZ
	.082	5%	14.5	5.5	11.6	10.00	0.60	PS1H823J-ND	.76	.66	.55	.33	ECH-S1H823JZ
	.1	5%	14.5	6.0	12.0	10.00	0.60	PS1H104J-ND	.88	.76	.63	.38	ECH-S1H104JZ
	.12	5%	14.5	6.5	12.4	10.00	0.60	PS1H124J-ND◆	1.00	.86	.72	.43	ECH-S1H124JZ
	.15	5%	17.0	6.5	12.4	12.50	0.60	PS1H154J-ND◆	1.17	1.01	.84	.51	ECH-S1H154JZ
	.18	5%	17.0	6.5	14.0	12.50	0.60	PS1H184J-ND◆	1.35	1.16	.97	.58	ECH-S1H184JZ
	.22	5%	17.0	7.0	14.4	12.50	0.60	PS1H224J-ND◆	1.54	1.32	1.10	.66	ECH-S1H224JZ
	.27	5%	17.0	7.5	15.2	12.50	0.80	PS1H274J-ND◆	1.69	1.46	1.22	.73	ECH-S1H274JZ
	.33	5%	17.0	8.5	15.8	12.50	0.80	PS1H334J-ND	1.88	1.62	1.35	.81	ECH-S1H334JZ
	.39	5%	17.0	9.0	16.4	12.50	0.80	PS1H394J-ND◆	2.12	1.82	1.52	.91	ECH-S1H394JZ
	.47	5%	17.0	10.0	17.2	12.50	0.80	PS1H474J-ND◆	2.37	2.04	1.70	1.02	ECH-S1H474JZ
100	.0001	5%	8.5	4.0	6.5	5.0	0.60	PS1101J-ND	.60	.51	.43	.26	ECH-S1101JZ
	.00012	5%	8.5	4.0	6.5	5.0	0.60	PS1121J-ND	.60	.51	.43	.26	ECH-S1121JZ
	.00015	5%	8.5	4.0	6.5	5.0	0.60	PS1151J-ND◆	.60	.51	.43	.26	ECH-S1151JZ
	.00018	5%	8.5	4.0	6.5	5.0	0.60	PS1181J-ND	.60	.51	.43	.26	ECH-S1181JZ
	.00022	5%	8.5	4.0	6.5	5.0	0.60	PS1221J-ND◆	.60	.51	.43	.26	ECH-S1221JZ
	.00027	5%	8.5	4.0	6.5	5.0	0.60	PS1271J-ND◆	.60	.51	.43	.26	ECH-S1271JZ
	.00033	5%	8.5	4.0	6.5	5.0	0.60	PS1331J-ND◆	.60	.51	.43	.26	ECH-S1331JZ
	.00039	5%	8.5	4.0	6.5	5.0	0.60	PS1391J-ND◆	.60	.51	.43	.26	ECH-S1391JZ
	.00047	5%	8.5	4.0	6.5	5.0	0.60	PS1471J-ND◆	.60	.51	.43	.26	ECH-S1471JZ
	.00056	5%	8.5	4.0	6.5	5.0	0.60	PS1561J-ND◆	.60	.51	.43	.26	ECH-S1561JZ
	.00068	5%	8.5	4.0	6.5	5.0	0.60	PS1681J-ND◆	.60	.51	.43	.26	ECH-S1681JZ
	.00082	5%	8.5	4.0	6.5	5.0	0.60	PS1821J-ND◆	.60	.51	.43	.26	ECH-S1821JZ
	.001	5%	10.0	4.5	7.0	5.0	0.60	PS1102J-ND	.39	.34	.28	.17	ECH-S1102JZ
	.0012	5%	10.0	4.5	7.0	5.0	0.60	PS1122J-ND◆	.39	.34	.28	.17	ECH-S1122JZ
	.0015	5%	10.0	4.5	7.0	5.0	0.60	PS1152J-ND◆	.39	.34	.28	.17	ECH-S1152JZ
	.0018	5%	10.0	4.5	7.0	5.0	0.60	PS1182J-ND	.39	.34	.28	.17	ECH-S1182JZ
	.0022	5%	10.0	4.5	7.5	5.0	0.60	PS1222J-ND◆	.39	.34	.28	.17	ECH-S1222JZ
	.0027	5%	10.0	4.5	7.0	5.0	0.60	PS1272J-ND◆	.39	.34	.28	.17	ECH-S1272JZ
	.0033	5%	10.0	4.5	7.5	5.0	0.60	PS1332J-ND◆	.39	.34	.28	.17	ECH-S1332JZ
	.0039	5%	10.0	4.5	7.0	5.0	0.60	PS1392J-ND	.39	.34	.28	.17	ECH-S1392JZ
	.0047	5%	10.0	5.0	7.5	5.0	0.60	PS1472J-ND◆	.40	.35	.29	.18	ECH-S1472JZ
	.0056	5%	12.0	4.5	8.0	7.5	0.60	PS1562J-ND◆	.47	.41	.34	.21	ECH-S1562JZ
	.0068	5%	12.0	4.5	7.8	7.5	0.60	PS1682J-ND◆	.47	.41	.34	.21	ECH-S1682JZ
	.0082	5%	12.0	4.5	8.0	7.5	0.60	PS1822J-ND◆	.47	.41	.34	.21	ECH-S1822JZ
	.01	5%	12.0	4.5	8.0	7.5	0.60	PS1103J-ND◆	.47	.41	.34	.21	ECH-S1103JZ
	.012	5%	12.0	5.0	8.2	7.5	0.60	PS1123J-ND	.55	.48	.40	.24	ECH-S1123JZ
	.015	5%	12.0	5.0	8.4	7.5	0.60	PS1153J-ND	.55	.48	.40	.24	ECH-S1153JZ
	.018	5%	12.0	5.5	8.8	7.5	0.60	PS1183J-ND	.55	.48	.40	.24	ECH-S1183JZ
	.022	5%	12.0	5.0	10.8	7.5	0.60	PS1223J-ND	.58	.50	.42	.25	ECH-S1223JZ
	.027	5%	12.0	5.5	11.2	7.5	0.60	PS1273J-ND◆	.61	.53	.44	.27	ECH-S1273JZ
	.033	5%	14.5	5.5	11.2	10.0	0.60	PS1333J-ND◆	.62	.54	.45	.27	ECH-S1333JZ
	.039	5%	14.5	6.0	11.6	10.0	0.60	PS1393J-ND	.69	.60	.50	.30	ECH-S1393JZ
	.047	5%	14.5	6.0	11.8	10.0	0.60	PS1473J-ND◆	.70	.60	.50	.30	ECH-S1473JZ
	.056	5%	14.5	6.5	12.2	10.0	0.60	PS1563J-ND	.78	.67	.56	.34	ECH-S1563JZ
	.068	5%	17.0	6.5	12.2	12.5	0.60	PS1683J-ND◆	.99	.85	.71	.43	ECH-S1683JZ
	.082	5%	17.0	6.5	13.8	12.5	0.60	PS1823J-ND	1.05	.90	.75	.45	ECH-S1823JZ
	.1	5%	17.0	7.0	14.2	12.5	0.60	PS1104J-ND◆	1.08	.93	.78	.47	ECH-S1104JZ
	.12	5%	17.0	7.5	14.8	12.5	0.60	PS1124J-ND	1.28	1.10	.92	.55	ECH-S1124JZ
	.15	5%	20.5	7.5	15.0	15.0	0.80	PS1154J-ND	1.75	1.50	1.25	.75	ECH-S1154JZ
	.18	5%	20.5	7.5	15.6	15.0	0.80	PS1184J-ND	2.04	1.75	1.46	.88	ECH-S1184JZ
	.22	5%	20.5	8.5	16.2	15.0	0.80	PS1224J-ND◆	2.04	1.75	1.46	.88	ECH-S1224JZ
	.27	5%	20.5	9.0	17.6	15.0	0.80	PS1274J-ND	2.18	1.88	1.56	.94	ECH-S1274JZ
	.33	5%	20.5	10.0	18.4	15.0	0.80	PS1334J-ND	2.67	2.29	1.91	1.15	ECH-S1334JZ
	.39	5%	20.5	10.5	19.2	15.0	0.80	PS1394J-ND	2.91	2.50	2.08	1.25	ECH-S1394JZ
	.47	5%	20.5	11.5	20.2	15.0	0.80	PS1474J-ND	2.98	2.56	2.14	1.28	ECH-S1474JZ

◆ ***RoHS Compliant***

Panasonic® Metallized Polyester/Polypropylene Film Capacitors

ECHAX Type – Equipped with a Safety Mechanism

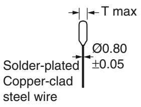

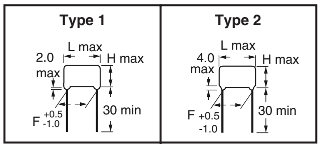

Features:
- Non-inductive construction • Excellent safety characteristics • Flame-retardant epoxy resin dipped enclosure • Small and compact

Application:
- Motor running • Fluorescent lamp ballast

Electrical Specifications:
- Temperature Range: -25°C ~ 70°C • Rated Voltage: 180, 220 and 250VAC • Capacitance Range: 1.0 to 6.0µF • Capacitance Tolerance: ±5%(J) • Dissipation Factor: 0.4% maximum at 50/60Hz and 20°C
- Withstand Voltage: Between Terminals; VAC (rated voltage) x 175% 60s. Between Terminals to Enclosure; 2000VAC 60s
- Insulation Resistance: Between Terminals; 1000Ω Fmin. (20°C 100VDC 60s). Between Terminals to Enclosure; 1000MΩ minimum (20°C 500 VDC 60s)

WV	Cap.	Toler-	Dimensions (mm)					Digi-Key	Price Each				Panasonic
AC	µF	ance	L	T	H	F	Type	Part No.	1	10	100	1,000	Part No.
180	1.0	5%	26.5	8.5	17.5	22.5	1	P10937-ND	2.59	2.23	1.75	1.12	ECH-A18105JX
	2.0	5%	26.5	11.5	21.0	22.5	1	P10938-ND◆	4.04	3.47	2.72	1.74	ECH-A18205JX
	3.0	5%	26.5	14.0	24.0	22.5	1	P10939-ND◆	5.07	4.35	3.41	2.18	ECH-A18305JX
	4.0	5%	31.5	14.5	24.0	27.5	1	P10940-ND	6.00	5.15	4.03	2.58	ECH-A18405JX
	5.0	5%	31.5	16.5	26.0	27.5	1	P10941-ND◆	5.96	5.11	4.01	2.56	ECH-A18505JX
	6.0	5%	37.0	16.5	25.5	32.5	1	P10942-ND◆	8.46	7.25	5.68	3.63	ECH-A18605JX
220	1.0	5%	26.5	10.0	19.5	22.5	1	P10943-ND	3.14	2.69	2.11	1.35	ECH-A22105JX
	2.0	5%	26.5	14.0	23.5	22.5	1	P10944-ND	4.36	3.74	2.93	1.87	ECH-A22205JX
	3.0	5%	31.5	15.5	25.0	27.5	1	P10945-ND	5.24	4.49	3.52	2.25	ECH-A22305JX
	4.0	5%	37.0	16.0	25.5	32.5	1	P10946-ND◆	3.54	3.03	2.38	1.52	ECH-A22405JX
	5.0	5%	37.0	18.0	27.5	32.5	1	P10947-ND	6.65	5.71	4.47	2.86	ECH-A22505JX
	6.0	5%	37.0	19.5	29.5	32.5	1	P10948-ND◆	8.45	7.25	5.68	3.63	ECH-A22605JX
250	1.0	5%	26.5	12.0	21.5	22.5	1	P10949-ND◆	3.27	2.81	2.20	1.41	ECH-A25105JX
	2.0	5%	31.5	15.0	24.5	27.5	1	P10950-ND◆	4.80	4.12	3.23	2.06	ECH-A25205JX
	3.0	5%	37.0	16.5	26.0	32.5	1	P10951-ND	5.43	4.65	3.65	2.33	ECH-A25305JX
	4.0	5%	37.0	19.5	29.0	32.5	1	P10952-ND◆	7.31	6.27	4.91	3.14	ECH-A25405JX
	5.0	5%	40.5	20.0	30.0	30.0	2	P10953-ND	9.00	7.72	6.05	3.86	ECH-A25505JX
	6.0	5%	40.5	22.0	32.0	30.0	2	P10954-ND	10.91	9.36	7.33	4.68	ECH-A25605JX

◆ ***RoHS Compliant***

Panasonic®

SMT Capacitors

ECW-U (PEN Film, Standard Type) and ECH-U (PPS Film, High Grade Type)

Features: • Small in size • High moisture resistance **Applications: Type ECW-U:** • Coupling • By-pass • General purpose **Type ECH-U:** • Time constant • Filtering • Oscillation and resonance

Case Size	Dimensions (mm) L	W	Case Size	Dimensions (mm) L	W
0603 (1608)	1.6	0.8	2820 (7150)	7.1	5.0
0805 (2012)	2.0	1.25	2825 (7163)	7.1	6.3
1206 (3216)	3.2	1.6	3022 (7755)	7.7	5.5
1210 (3225)	3.2	2.5	3925 (9863)	9.8	6.3
1913 (4833)	4.8	3.3	3931 (9880)	9.8	8.0
2416 (6041)	6.0	4.1	6031 (1580)	15.2	8.0
2420 (6050)	6.0	5.0	6039 (1510)	15.2	10.0

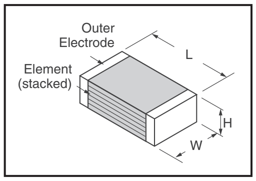

ECW-U(B) Series

Specifications: • Operating Temperature: -55°C ~ 105°C • Rated Voltage: 16VDC, 50VDC • Capacitance Tolerance: 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: C≤0.33µF: ≥3000MΩ (20°C, 10VDC, 50VDC 60s) • Reflow Soldering Conditions: 240°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					10	100	500	Qty.	Pricing	
ECW-U(B) (Standard Type) 5% Tolerance, Reflow Only NOT RECOMMENDED FOR NEW DESIGN										
1206 (3216)	50	.0033	0.8	PCF1040CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECW-U1H332JB5
		.0039	0.8	PCF1041CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECW-U1H392JB5
		.0047	0.8	PCF1042CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECW-U1H472JB5
		.0056	0.8	PCF1043CT-ND	5.29	45.83	176.25	3,000	212.00/M	ECW-U1H562JB5
		.0068	0.8	PCF1044CT-ND◆	5.29	45.83	176.25	3,000	212.00/M	ECW-U1H682JB5
		.0082	1.0	PCF1045CT-ND	5.40	46.80	180.00	3,000	216.00/M	ECW-U1H822JB5
		.01	1.0	PCF1046CT-ND◆	5.44	47.13	181.25	3,000	218.00/M	ECW-U1H103JB5
1210 (3225)	50	.012	1.0	PCF1047CT-ND◆	5.55	48.10	185.00	2,000	222.00/M	ECW-U1H123JB5
		.015	1.0	PCF1048CT-ND◆	5.63	48.75	187.50	2,000	225.00/M	ECW-U1H153JB5
		.018	1.4	PCF1049CT-ND	5.78	50.05	192.50	2,000	231.00/M	ECW-U1H183JB5
		.022	1.4	PCF1050CT-ND	5.89	51.03	196.25	2,000	236.00/M	ECW-U1H223JB5
		.027	1.4	PCF1051CT-ND	6.00	52.00	200.00	2,000	240.00/M	ECW-U1H273JB5
		.033	2.0	PCF1052CT-ND◆	6.04	52.33	201.25	2,000	242.00/M	ECW-U1H333JB5
		.039	2.0	PCF1053CT-ND	6.30	54.60	210.00	2,000	252.00/M	ECW-U1H393JB5
		.047	2.0	PCF1054CT-ND◆	6.45	55.90	215.00	2,000	258.00/M	ECW-U1H473JB5

ECW-U(C) Series

Specifications: • Operating Temperature: (16VDC, 50VDC) -55°C ~ 105°C; (100VDC, 250VDC) -40°C ~ 85°C • Rated Voltage: 16, 50, 100, and 250VDC • Withstanding Voltage Between Terminals: (16VDC, 50VDC) Rated Voltage x 175% 1 to 5s; (100VDC or 250VDC) Rated Voltage x 150% 60s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: (C≤0.33µF) ≥3000MΩ; (C>0.33µF) 1000MΩ • Reflow Soldering Conditions: (16VDC, 50VDC) 240°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface); (100VDC, 250VDC) 230°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					10	100	500	Qty.	Pricing	
ECW-U(C) (Standard Type) 5% Tolerance, Reflow Only										
1913 (4833)	16	.12	1.4	PCF1137CT-ND	7.13	61.75	237.50	3,000	285.00/M	ECW-U1C124JC9
		.15	2.0	PCF1138CT-ND◆	7.50	65.00	250.00	3,000	300.00/M	ECW-U1C154JC9
		.18	4.8	PCF1139CT-ND◆	8.25	71.50	275.00	3,000	330.00/M	ECW-U1C184JC9
		.22	4.8	PCF1140CT-ND◆	9.00	78.00	300.00	2,000	360.00/M	ECW-U1C224JC9
2416 (6041)	16	.27	1.8	PCF1141CT-ND	9.75	84.50	325.00	3,000	390.00/M	ECW-U1C274JC9
		.33	2.0	PCF1142CT-ND◆	10.50	91.00	350.00	3,000	420.00/M	ECW-U1C334JC9
		.39	2.4	PCF1143CT-ND	11.25	97.50	375.00	2,000	450.00/M	ECW-U1C394JC9
		.47	2.8	PCF1144CT-ND◆	12.00	104.00	400.00	2,000	480.00/M	ECW-U1C474JC9
1913 (4833)	50	.056	2.0	PCF1145CT-ND	6.00	52.00	200.00	3,000	240.00/M	ECW-U1H563JC9
		.068	2.0	PCF1146CT-ND◆	6.00	52.00	200.00	3,000	240.00/M	ECW-U1H683JC9
		.082	2.4	PCF1147CT-ND	6.75	58.50	225.00	2,000	270.00/M	ECW-U1H823JC9
		.10	2.8	PCF1148CT-ND◆	7.50	65.00	250.00	2,000	300.00/M	ECW-U1H104JC9
2416 (6041)	50	.12	1.8	PCF1149CT-ND	9.00	78.00	300.00	3,000	360.00/M	ECW-U1H124JC9
		.15	2.0	PCF1150CT-ND	10.50	91.00	350.00	3,000	420.00/M	ECW-U1H154JC9
		.18	2.4	PCF1151CT-ND	12.00	104.00	400.00	2,000	480.00/M	ECW-U1H184JC9
		.22	2.8	PCF1152CT-ND◆	13.50	117.00	450.00	2,000	540.00/M	ECW-U1H224JC9
1913 (4833)	100	.012	1.4	PCF1209CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U1123JC9
		.015	1.4	PCF1210CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U1153JC9
		.018	1.4	PCF1211CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U1183JC9
		.022	1.4	PCF1212CT-ND◆	5.21	45.11	173.50	3,000	208.00/M	ECW-U1223JC9
		.027	1.4	PCF1213CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U1273JC9
		.033	1.4	PCF1214CT-ND◆	5.21	45.11	173.50	3,000	208.00/M	ECW-U1333JC9
		.039	1.4	PCF1215CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U1393JC9
		.047	2.0	PCF1216CT-ND◆	6.52	56.49	217.25	3,000	261.00/M	ECW-U1473JC9
		.056	2.0	PCF1217CT-ND	6.52	56.49	217.25	3,000	261.00/M	ECW-U1563JC9
		.068	2.4	PCF1218CT-ND	7.83	67.86	261.00	2,000	313.00/M	ECW-U1683JC9
		.082	2.8	PCF1219CT-ND◆	8.49	73.55	282.88	2,000	339.00/M	ECW-U1823JC9
2416 (6041)	100	.10	1.8	PCF1220CT-ND◆	9.14	79.24	304.75	3,000	366.00/M	ECW-U1104JC9
		.12	2.4	PCF1221CT-ND	10.41	90.19	346.88	2,000	416.00/M	ECW-U1124JC9
		.15	2.8	PCF1222CT-ND◆	11.72	101.56	390.63	2,000	469.00/M	ECW-U1154JC9
1913 (4833)	250	.001	1.4	PCF1361CT-ND◆	5.86	50.80	195.38	3,000	234.00/M	ECW-U2102JC9
		.0012	1.4	PCF1362CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U2122JC9
		.0015	1.4	PCF1363CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U2152JC9
		.0018	1.4	PCF1364CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U2182JC9
		.0022	1.4	PCF1365CT-ND◆	5.86	50.80	195.38	3,000	234.00/M	ECW-U2222JC9
		.0027	1.4	PCF1366CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U2272JC9
		.0033	1.4	PCF1367CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U2332JC9
		.0039	1.4	PCF1368CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U2392JC9
		.0047	1.4	PCF1369CT-ND◆	5.86	50.80	195.38	3,000	234.00/M	ECW-U2472JC9
		.0056	1.4	PCF1370CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U2562JC9
		.0068	1.4	PCF1371CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U2682JC9
		.0082	1.4	PCF1372CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U2822JC9
		.01	1.4	PCF1373CT-ND◆	5.86	50.80	195.38	3,000	234.00/M	ECW-U2103JC9
		.012	1.4	PCF1374CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U2123JC9
		.015	1.4	PCF1375CT-ND◆	5.86	50.80	195.38	3,000	234.00/M	ECW-U2153JC9
		.018	2.0	PCF1376CT-ND	6.52	56.49	217.25	3,000	261.00/M	ECW-U2183JC9
		.022	2.0	PCF1377CT-ND	6.52	56.49	217.25	3,000	261.00/M	ECW-U2223JC9
		.027	2.4	PCF1378CT-ND◆	7.83	67.86	261.00	2,000	313.00/M	ECW-U2273JC9
		.033	2.8	PCF1379CT-ND	8.49	73.55	282.88	2,000	339.00/M	ECW-U2333JC9
2416 (6041)	250	.039	2.0	PCF1380CT-ND	9.14	79.24	304.75	3,000	366.00/M	ECW-U2393JC9
		.047	2.4	PCF1381CT-ND◆	9.75	84.50	325.00	2,000	390.00/M	ECW-U2473JC9
		.056	2.8	PCF1382CT-ND	10.41	90.19	346.88	2,000	416.00/M	ECW-U2563JC9
		.068	3.2	PCF1383CT-ND	9.83	85.15	327.50	2,000	393.00/M	ECW-U2683JC9
2420 (6050)	250	.082	3.2	PCF1384CT-ND	15.60	135.20	520.00	1,500	624.00/M	ECW-U2823JC9
		.10	3.8	PCF1385CT-ND◆	13.76	119.28	458.75	1,500	551.00/M	ECW-U2104JC9
		.12	4.5	PCF1386CT-ND	17.33	150.15	577.50	1,500	693.00/M	ECW-U2124JC9
ECW-U(C) (Standard Type) 10% Tolerance, Reflow Only										
1913 (4833)	100	.012	1.4	PCF1223CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U1123KC9
		.015	1.4	PCF1224CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U1153KC9
		.018	1.4	PCF1225CT-ND◆	4.69	40.63	156.25	3,000	188.00/M	ECW-U1183KC9
		.022	1.4	PCF1226CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U1223KC9
		.027	1.4	PCF1227CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U1273KC9
		.033	1.4	PCF1228CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U1333KC9
		.039	1.4	PCF1229CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U1393KC9
		.047	2.0	PCF1230CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U1473KC9
		.056	2.0	PCF1231CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U1563KC9
		.068	2.4	PCF1232CT-ND	7.03	60.94	234.38	2,000	281.00/M	ECW-U1683KC9
		.082	2.8	PCF1233CT-ND	7.64	66.24	254.75	2,000	306.00/M	ECW-U1823KC9
2416 (6041)	100	.10	1.8	PCF1234CT-ND◆	8.21	71.11	273.50	3,000	328.00/M	ECW-U1104KC9
		.12	2.4	PCF1235CT-ND	9.38	81.25	312.50	2,000	375.00/M	ECW-U1124KC9
		.15	2.8	PCF1236CT-ND	10.55	91.42	351.63	2,000	422.00/M	ECW-U1154KC9
2820 (7150)	100	.18	2.0	PCF1237CT-ND◆	11.72	101.56	390.63	1,500	469.00/M	ECW-U1184KC9
		.22	2.4	PCF1238CT-ND◆	13.03	112.94	434.38	1,500	521.00/M	ECW-U1224KC9
		.27	2.9	PCF1239CT-ND	13.36	115.80	445.38	1,500	534.00/M	ECW-U1274KC9
		.33	3.5	PCF1240CT-ND◆	13.59	117.81	453.13	1,500	544.00/M	ECW-U1334KC9
3022 (7755)	100	.39	3.4	PCF1241CT-ND	14.02	121.49	467.25	1,000	561.00	ECW-U1394KCV
		.47	4.0	PCF1242CT-ND◆	14.34	124.31	478.13	1,000	574.00	ECW-U1474KCV
3925 (9863)	100	.56	3.0	PCF1243CT-ND◆	14.96	129.61	498.50	1,000	598.00	ECW-U1564KCV
		.68	3.6	PCF1244CT-ND◆	15.61	135.30	520.38	1,000	624.00	ECW-U1684KCV
		.82	4.3	PCF1245CT-ND◆	16.27	140.99	542.25	1,000	651.00	ECW-U1824KCV
		1.0	5.1	PCF1246CT-ND◆	16.92	146.67	564.13	1,000	677.00	ECW-U1105KCV
1913 (4833)	250	.001	1.4	PCF1247CT-ND◆	5.21	45.11	173.50	3,000	208.00/M	ECW-U2102KC9
		.0012	1.4	PCF1248CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U2122KC9
		.0015	1.4	PCF1249CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U2152KC9
		.0018	1.4	PCF1250CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U2182KC9
		.0022	1.4	PCF1251CT-ND◆	5.21	45.11	173.50	3,000	208.00/M	ECW-U2222KC9
		.0027	1.4	PCF1252CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U2272KC9
		.0033	1.4	PCF1253CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U2332KC9
		.0039	1.4	PCF1254CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U2392KC9
		.0047	1.4	PCF1255CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U2472KC9
		.0056	1.4	PCF1256CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U2562KC9
		.0068	1.4	PCF1257CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U2682KC9
		.0082	1.4	PCF1258CT-ND◆	5.21	45.11	173.50	3,000	208.00/M	ECW-U2822KC9
		.01	1.4	PCF1259CT-ND◆	5.21	45.11	173.50	3,000	208.00/M	ECW-U2103KC9
		.012	1.4	PCF1260CT-ND	5.21	45.11	173.50	3,000	208.00/M	ECW-U2123KC9
		.015	1.4	PCF1261CT-ND◆	5.21	45.11	173.50	3,000	208.00/M	ECW-U2153KC9
		.018	2.0	PCF1262CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U2183KC9
		.022	2.0	PCF1263CT-ND	5.86	50.80	195.38	3,000	234.00/M	ECW-U2223KC9
		.027	2.4	PCF1264CT-ND	7.03	60.94	234.38	2,000	281.00/M	ECW-U2273KC9
		.033	2.8	PCF1265CT-ND◆	7.64	66.24	254.75	2,000	306.00/M	ECW-U2333KC9
2416 (6041)	250	.039	2.0	PCF1266CT-ND	8.21	71.11	273.50	3,000	328.00/M	ECW-U2393KC9
		.047	2.4	PCF1267CT-ND◆	8.81	76.38	293.75	2,000	353.00/M	ECW-U2473KC9
		.056	2.8	PCF1268CT-ND	9.38	81.25	312.50	2,000	375.00/M	ECW-U2563KC9
2420 (6050)	250	.068	3.2	PCF1269CT-ND	9.99	86.55	332.88	2,000	399.00/M	ECW-U2683KC9
		.082	3.2	PCF1270CT-ND	10.55	91.42	351.63	1,500	422.00/M	ECW-U2823KC9
		.10	3.8	PCF1271CT-ND◆	11.16	96.69	371.88	1,500	446.00/M	ECW-U2104KC9
		.12	2.8	PCF1272CT-ND	11.72	101.56	390.63	1,500	469.00/M	ECW-U2124KC9
2825 (7163)	250	.15	3.5	PCF1273CT-ND◆	14.34	124.31	478.13	1,000	574.00	ECW-U2154KCV
		.18	4.1	PCF1274CT-ND	15.61	135.30	520.38	1,000	624.00	ECW-U2184KCV
		.22	5.1	PCF1275CT-ND◆	16.92	146.67	564.13	1,000	677.00	ECW-U2224KCV
3925 (9863)	250	.27	3.9	PCF1276CT-ND◆	18.24	158.05	607.88	1,000	729.00	ECW-U2274KCV
		.33	4.8	PCF1277CT-ND◆	19.50	169.00	650.00	1,000	780.00	ECW-U2334KCV
3931 (9880)	250	.39	4.4	PCF1278CT-ND	20.81	180.38	693.75	1,000	833.00	ECW-U2394KCV
		.47	5.3	PCF1279CT-ND◆	22.13	191.75	737.50	1,000	885.00	ECW-U2474KCV
6031 (1580)	250	.56	3.7	PCF1280CT-ND	26.02	225.49	—	750	780.75	ECW-U2564KCZ
		.68	4.4	PCF1281CT-ND	32.53	281.94	—	750	975.75	ECW-U2684KCZ
6039 (1510)	250	.82	4.2	PCF1282CT-ND	35.77	309.99	—	750	1073.25	ECW-U2824KCZ
		1.0	5.1	PCF1283CT-ND◆	39.00	338.00	—	750	1170.00	ECW-U2105KCZ

‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

(Continued)

F

ECW-U(X) Series

Specifications: • Operating Temperature: -55°C ~ 105°C • Rated Voltage: 100VDC • Withstanding Voltage Between Terminals: Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 100VDC 60s) • Reflow Soldering Conditions: 240°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					10	100	500	Qty.	Pricing	
ECW-U(X) (Standard Type) 5% Tolerance, Reflow Only										
1206 (3216)	100	.001	1.1	PCF1348CT-ND◆	4.59	39.81	153.13	3,000	184.00/M	ECW-U1102JX5
		.0012	1.1	PCF1349CT-ND	4.59	39.81	153.13	3,000	184.00/M	ECW-U1122JX5
		.0015	1.1	PCF1350CT-ND	4.59	39.81	153.13	3,000	184.00/M	ECW-U1152JX5
		.0018	1.1	PCF1351CT-ND	4.59	39.81	153.13	3,000	184.00/M	ECW-U1182JX5
		.0022	1.1	PCF1352CT-ND◆	4.59	39.81	153.13	3,000	184.00/M	ECW-U1222JX5
		.0027	1.1	PCF1353CT-ND	4.59	39.81	153.13	3,000	184.00/M	ECW-U1272JX5
		.0033	1.5	PCF1354CT-ND	4.59	39.81	153.13	2,000	184.00/M	ECW-U1332JX5
		.0039	1.5	PCF1355CT-ND	4.59	39.81	153.13	2,000	184.00/M	ECW-U1392JX5
		.0047	1.5	PCF1356CT-ND◆	4.59	39.81	153.13	2,000	184.00/M	ECW-U1472JX5
1210 (3225)	100	.0056	1.5	PCF1357CT-ND◆	4.88	42.25	162.50	2,000	195.00/M	ECW-U1562JX5
		.0068	1.5	PCF1358CT-ND	4.88	42.25	162.50	2,000	195.00/M	ECW-U1682JX5
		.0082	2.1	PCF1359CT-ND	4.88	42.25	162.50	2,000	195.00/M	ECW-U1822JX5
		.01	2.1	PCF1360CT-ND◆	4.88	42.25	162.50	2,000	195.00/M	ECW-U1103JX5

ECW-U (V16) and (V17) Series

Specifications: • Operating Temperature: -55°C ~ 105°C • Rated Voltage: 250VDC, 400VDC • Withstanding Voltage Between Terminals: (250VDC) 400VDC for 60s; (400VDC) 600VDC for 60s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: (250VDC) ≥3000MΩ • Reflow Soldering Conditions: 230°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					10	100	500	Qty.	Pricing	
ECW-U(V16) (Standard Type) 5% Tolerance, Reflow Only										
1913 (4883)	250	.001	1.4	PCF1390CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U2102V16
		.0012	1.4	PCF1391CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U2122V16
		.0015	1.4	PCF1392CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U2152V16
		.0018	1.4	PCF1393CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U2182V16
		.0022	1.4	PCF1394CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U2222V16
		.0033	1.4	PCF1395CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U2332V16
		.0047	1.4	PCF1396CT-ND◆	4.69	40.63	156.25	3,000	188.00/M	ECW-U2472V16
		.0056	1.4	PCF1397CT-ND◆	4.69	40.63	156.25	3,000	188.00/M	ECW-U2562V16
		.0068	1.4	PCF1398CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U2682V16
		.0082	1.4	PCF1399CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U2822V16
		.01	1.4	PCF1400CT-ND	4.69	40.63	156.25	3,000	188.00/M	ECW-U2103V16
		.012	1.4	PCF1401CT-ND◆	4.69	40.63	156.25	3,000	188.00/M	ECW-U2123V16
		.015	1.4	PCF1402CT-ND◆	4.69	40.63	156.25	3,000	188.00/M	ECW-U2153V16
		.018	2.0	PCF1403CT-ND	5.21	45.18	173.75	3,000	209.00/M	ECW-U2183V16
		.022	2.0	PCF1404CT-ND◆	5.21	45.18	173.75	3,000	209.00/M	ECW-U2223V16
		.027	2.4	PCF1405CT-ND◆	6.23	53.95	207.50	2,000	249.00/M	ECW-U2273V16
		.033	2.8	PCF1406CT-ND◆	6.75	58.50	225.00	2,000	270.00/M	ECW-U2333V16
2416 (6041)	250	.039	2.0	PCF1407CT-ND	7.28	63.05	242.50	3,000	291.00/M	ECW-U2393V16
		.047	2.4	PCF1408CT-ND◆	7.80	67.60	260.00	2,000	312.00/M	ECW-U2473V16
		.056	2.8	PCF1409CT-ND◆	8.33	72.15	277.50	2,000	333.00/M	ECW-U2563V16
		.068	3.2	PCF1410CT-ND◆	8.85	76.70	295.00	2,000	354.00/M	ECW-U2683V16
2420 (6050)	250	.082	3.2	PCF1411CT-ND	9.38	81.25	312.50	1,500	375.00/M	ECW-U2823V16
		.10	3.8	PCF1412CT-ND◆	9.86	85.48	328.75	1,500	395.00/M	ECW-U2104V16
		.12	4.5	PCF1413CT-ND	10.39	90.03	346.25	1,500	416.00/M	ECW-U2124V16
ECW-U(V17) (Standard Type) 5% Tolerance, Reflow Only										
1913 (4833)	400	.001	1.4	PCF1414CT-ND◆	5.21	45.18	173.75	3,000	209.00/M	ECW-U4102V17
		.0012	1.4	PCF1415CT-ND◆	5.21	45.18	173.75	3,000	209.00/M	ECW-U4122V17
		.0015	1.4	PCF1416CT-ND	5.21	45.18	173.75	3,000	209.00/M	ECW-U4152V17
		.0018	1.4	PCF1417CT-ND	5.21	45.18	173.75	3,000	209.00/M	ECW-U4182V17
		.0022	1.4	PCF1418CT-ND	5.21	45.18	173.75	3,000	209.00/M	ECW-U4222V17
		.0027	1.4	PCF1419CT-ND	5.21	45.18	173.75	3,000	209.00/M	ECW-U4272V17
		.0033	1.4	PCF1420CT-ND	5.21	45.18	173.75	3,000	209.00/M	ECW-U4332V17
		.0039	1.4	PCF1421CT-ND	5.21	45.18	173.75	3,000	209.00/M	ECW-U4392V17
		.0047	1.4	PCF1422CT-ND	5.21	45.18	173.75	3,000	209.00/M	ECW-U4472V17
		.0056	2.0	PCF1423CT-ND	5.21	45.18	173.75	3,000	209.00/M	ECW-U4562V17
		.0068	2.0	PCF1424CT-ND◆	5.21	45.18	173.75	3,000	209.00/M	ECW-U4682V17
		.0082	2.4	PCF1425CT-ND	5.96	51.68	198.75	2,000	239.00/M	ECW-U4822V17
		.01	2.8	PCF1426CT-ND◆	6.23	53.95	207.50	2,000	249.00/M	ECW-U4103V17
2416 (6041)	400	.012	2.0	PCF1427CT-ND	6.75	58.50	225.00	3,000	270.00/M	ECW-U4123V17
		.015	2.4	PCF1428CT-ND	7.28	63.05	242.50	2,000	291.00/M	ECW-U4153V17
		.018	2.8	PCF1429CT-ND	7.80	67.60	260.00	2,000	312.00/M	ECW-U4183V17
		.022	3.2	PCF1430CT-ND◆	8.33	72.15	277.50	2,000	333.00/M	ECW-U4223V17
2420 (6050)	400	.027	3.0	PCF1431CT-ND◆	9.11	78.98	303.75	1,500	365.00/M	ECW-U4273V17
		.033	3.6	PCF1432CT-ND◆	9.86	85.48	328.75	1,500	395.00/M	ECW-U4333V17
2820 (7150)	400	.039	3.2	PCF1433CT-ND	9.86	85.48	328.75	1,500	395.00/M	ECW-U4393V17
		.047	3.8	PCF1434CT-ND◆	10.39	90.03	346.25	1,500	416.00/M	ECW-U4473V17
2825 (7163)	400	.056	3.6	PCF1435CT-ND	10.39	90.03	346.25	1,000	416.00	ECW-U4563V17
		.068	4.4	PCF1436CT-ND◆	10.91	94.58	363.75	1,000	437.00	ECW-U4683V17
3925 (9863)	400	.082	3.4	PCF1437CT-ND	10.91	94.58	363.75	1,000	437.00	ECW-U4823V17
		.10	4.0	PCF1438CT-ND◆	11.70	101.40	390.00	1,000	468.00	ECW-U4104V17
3931 (9880)	400	.12	3.8	PCF1439CT-ND	11.70	101.40	390.00	1,000	468.00	ECW-U4124V17
		.15	4.6	PCF1440CT-ND◆	12.49	108.23	416.25	1,000	500.00	ECW-U4154V17

ECH-U(B) Series

Specifications: • Operating Temperature: -55°C ~ 125°C • Rated Voltage: 50VDC • Capacitance Tolerance: 2%, 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤0.6% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 60s) • Soldering Conditions: (Flow) 260°C maximum and 5 seconds maximum; (Reflow) 260°C maximum, 30 seconds maximum at more than 230°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					10	100	500	Qty.	Pricing	
ECH-U(B) (High Grade Type) 2% Tolerance Reflow/Flow NOT RECOMMENDED FOR NEW DESIGN										
0805 (2012)	50	.0001	0.8	PCF1089CT-ND	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H101GB5
		.00012	0.8	PCF1090CT-ND	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H121GB5
		.00015	0.8	PCF1091CT-ND◆	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H151GB5
		.00018	0.8	PCF1092CT-ND◆	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H181GB5
		.00022	0.8	PCF1093CT-ND◆	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H221GB5
		.00027	0.8	PCF1094CT-ND	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H271GB5
		.00033	0.8	PCF1095CT-ND◆	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H331GB5
		.00039	0.8	PCF1096CT-ND	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H391GB5
		.00047	0.8	PCF1097CT-ND◆	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H471GB5
		.00056	0.8	PCF1098CT-ND	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H561GB5
		.00068	0.8	PCF1099CT-ND	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H681GB5
		.00082	0.8	PCF1100CT-ND	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H821GB5
		.001	0.8	PCF1101CT-ND◆	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H102GB5
		.0012	0.8	PCF1102CT-ND	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H122GB5
		.0015	0.8	PCF1103CT-ND◆	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H152GB5
		.0018	0.8	PCF1104CT-ND◆	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H182GB5
		.0022	0.8	PCF1105CT-ND	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H222GB5
		.0027	0.8	PCF1106CT-ND	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H272GB5
1206 (3216)	50	.0033	0.8	PCF1107CT-ND◆	7.24	62.73	241.25	3,000	290.00/M	ECH-U1H332GB5
		.0039	0.8	PCF1108CT-ND◆	7.39	64.03	246.25	3,000	296.00/M	ECH-U1H392GB5
		.0047	0.8	PCF1109CT-ND	7.61	65.98	253.75	3,000	305.00/M	ECH-U1H472GB5
		.0056	0.8	PCF1110CT-ND◆	7.84	67.93	261.25	3,000	314.00/M	ECH-U1H562GB5
		.0068	0.8	PCF1111CT-ND	8.06	69.88	268.75	3,000	323.00/M	ECH-U1H682GB5
		.0082	1.0	PCF1112CT-ND◆	8.29	71.83	276.25	3,000	332.00/M	ECH-U1H822GB5
		.01	1.0	PCF1113CT-ND◆	8.51	73.78	283.75	3,000	341.00/M	ECH-U1H103GB5
1210 (3225)	50	.012	1.0	PCF1114CT-ND◆	8.66	75.08	288.75	2,000	347.00/M	ECH-U1H123GB5
		.015	1.0	PCF1115CT-ND	8.93	77.35	297.50	2,000	357.00/M	ECH-U1H153GB5
		.018	1.4	PCF1116CT-ND	9.19	79.63	306.25	2,000	368.00/M	ECH-U1H183GB5
		.022	1.4	PCF1117CT-ND◆	9.53	82.55	317.50	2,000	381.00/M	ECH-U1H223GB5
		.027	1.4	PCF1118CT-ND◆	9.98	86.45	332.50	2,000	399.00/M	ECH-U1H273GB5
		.033	2.0	PCF1119CT-ND◆	10.43	90.35	347.50	2,000	417.00/M	ECH-U1H333GB5
		.039	2.0	PCF1120CT-ND◆	10.91	94.58	363.75	2,000	437.00/M	ECH-U1H393GB5
ECH-U(B) (High Grade Type) 5% Tolerance Reflow/Flow NOT RECOMMENDED FOR NEW DESIGN										
0805 (2012)	16	.0033	0.8	PCF1070CT-ND◆	4.88	42.25	162.50	3,000	195.00/M	ECH-U1C332JB5
		.0039	0.8	PCF1071CT-ND	4.88	42.25	162.50	3,000	195.00/M	ECH-U1C392JB5
		.0047	0.8	PCF1072CT-ND	4.88	42.25	162.50	3,000	195.00/M	ECH-U1C472JB5
		.0056	0.8	PCF1073CT-ND	4.88	42.25	162.50	3,000	195.00/M	ECH-U1C562JB5
		.0068	0.8	PCF1074CT-ND	4.88	42.25	162.50	3,000	195.00/M	ECH-U1C682JB5
		.0082	1.0	PCF1075CT-ND	4.88	42.25	162.50	3,000	195.00/M	ECH-U1C822JB5
		.01	1.0	PCF1076CT-ND	4.01	34.71	133.50	3,000	160.00/M	ECH-U1C103JB5
1206 (3216)	16	.012	0.8	PCF1077CT-ND	5.14	44.53	171.25	3,000	206.00/M	ECH-U1C123JB5
		.015	0.8	PCF1078CT-ND◆	5.33	46.15	177.50	3,000	213.00/M	ECH-U1C153JB5
		.018	0.8	PCF1079CT-ND	5.33	46.15	177.50	3,000	213.00/M	ECH-U1C183JB5
		.022	0.8	PCF1080CT-ND	5.74	49.73	191.25	3,000	230.00/M	ECH-U1C223JB5
		.027	1.0	PCF1081CT-ND	5.89	51.03	196.25	3,000	236.00/M	ECH-U1C273JB5
		.033	1.0	PCF1082CT-ND	6.08	52.65	202.50	3,000	243.00/M	ECH-U1C333JB5
		.039	1.4	PCF1083CT-ND	6.34	54.93	211.25	2,000	254.00/M	ECH-U1C393JB5
		.047	1.4	PCF1084CT-ND	5.53	47.91	184.25	2,000	221.00/M	ECH-U1C473JB5
1210 (3225)	16	.056	1.4	PCF1085CT-ND◆	7.35	63.70	245.00	2,000	294.00/M	ECH-U1C563JB5
		.068	1.4	PCF1086CT-ND	7.88	68.25	262.50	2,000	315.00/M	ECH-U1C683JB5
		.082	2.0	PCF1087CT-ND◆	8.48	73.45	282.50	2,000	339.00/M	ECH-U1C823JB5
		.10	2.0	PCF1088CT-ND◆	8.96	77.68	298.75	2,000	359.00/M	ECH-U1C104JB5
0805 (2012)	50	.0001	0.8	PCF1000CT-ND◆	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H101JB5
		.00012	0.8	PCF1001CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H121JB5
		.00015	0.8	PCF1002CT-ND◆	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H151JB5
		.00018	0.8	PCF1003CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H181JB5
		.00022	0.8	PCF1004CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H221JB5
		.00027	0.8	PCF1005CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H271JB5
		.00033	0.8	PCF1006CT-ND◆	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H331JB5
		.00039	0.8	PCF1007CT-ND◆	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H391JB5
		.00047	0.8	PCF1008CT-ND◆	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H471JB5
		.00056	0.8	PCF1009CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H561JB5
		.00068	0.8	PCF1010CT-ND◆	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H681JB5
		.00082	0.8	PCF1011CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H821JB5
		.001	0.8	PCF1012CT-ND◆	3.95	34.22	131.63	3,000	158.00/M	ECH-U1H102JB5
		.0012	0.8	PCF1013CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H122JB5
		.0015	0.8	PCF1014CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H152JB5
		.0018	0.8	PCF1015CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H182JB5
		.0022	0.8	PCF1016CT-ND◆	3.86	33.44	128.63	3,000	154.00/M	ECH-U1H222JB5
		.0027	0.8	PCF1017CT-ND	4.99	43.23	166.25	3,000	200.00/M	ECH-U1H272JB5

‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

(Continued)

Panasonic® SMT Capacitors
ECW-U and ECH-U – ECH-U(B) Series *(Cont.)*

Digi-Reel®

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					10	100	500	Qty.	Pricing	
1206 (3216)	50	.0033	0.8	PCF1018CT-ND◆	5.85	50.70	195.00	3,000	234.00/M	ECH-U1H332JB5
		.0039	0.8	PCF1019CT-ND	6.00	52.00	200.00	3,000	240.00/M	ECH-U1H392JB5
		.0047	0.8	PCF1020CT-ND◆	6.19	53.63	206.25	3,000	248.00/M	ECH-U1H472JB5
		.0056	0.8	PCF1021CT-ND	6.34	54.93	211.25	3,000	254.00/M	ECH-U1H562JB5
		.0068	0.8	PCF1022CT-ND	6.53	56.55	217.50	3,000	261.00/M	ECH-U1H682JB5
		.0082	1.0	PCF1023CT-ND	6.64	57.53	221.25	3,000	266.00/M	ECH-U1H822JB5
		.01	1.0	PCF1024CT-ND	6.90	59.80	230.00	3,000	276.00/M	ECH-U1H103JB5
1210 (3225)	50	.012	1.0	PCF1025CT-ND	7.05	61.10	235.00	2,000	282.00/M	ECH-U1H123JB5
		.015	1.0	PCF1026CT-ND	7.24	62.73	241.25	2,000	290.00/M	ECH-U1H153JB5
		.018	1.4	PCF1027CT-ND	7.43	64.35	247.50	2,000	297.00/M	ECH-U1H183JB5
		.022	1.4	PCF1028CT-ND	7.69	66.63	256.25	2,000	308.00/M	ECH-U1H223JB5
		.027	1.4	PCF1029CT-ND	7.99	69.23	266.25	2,000	320.00/M	ECH-U1H273JB5
		.033	2.0	PCF1030CT-ND◆	6.57	56.91	218.88	2,000	263.00/M	ECH-U1H333JB5
		.039	2.0	PCF1031CT-ND	8.78	76.05	292.50	2,000	351.00/M	ECH-U1H393JB5

ECH-U(C) Series

Specifications: • Operating Temperature: -55°C ~ 125°C • Rated Voltage: 50VDC, 100VDC • Capacitance Tolerance: 2%, 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤0.6% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 60s) • Soldering Conditions: (Flow) 260°C maximum and 5 seconds maximum; (Reflow) 260°C maximum, 30 seconds maximum at more than 230°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					10	100	500	Qty.	Pricing	
ECH-U(C) (High Grade Type) 2% Tolerance Reflow/Flow										
1913 (4833)	50	.047	1.4	PCF1162CT-ND◆	5.18	44.92	172.75	3,000	207.00/M	ECH-U1H473GC9
		.056	2.0	PCF1163CT-ND◆	5.51	47.78	183.75	3,000	221.00/M	ECH-U1H563GC9
		.068	2.0	PCF1164CT-ND◆	5.85	50.67	194.88	3,000	234.00/M	ECH-U1H683GC9
		.082	2.4	PCF1165CT-ND◆	6.47	56.03	215.50	2,000	259.00/M	ECH-U1H823GC9
		.10	2.8	PCF1166CT-ND◆	7.13	61.78	237.63	2,000	285.00/M	ECH-U1H104GC9
2416 (6041)	50	.12	1.8	PCF1167CT-ND◆	8.75	75.79	291.50	3,000	350.00/M	ECH-U1H124GC9
		.15	2.4	PCF1168CT-ND	9.99	86.58	333.00	2,000	400.00/M	ECH-U1H154GC9
		.18	2.8	PCF1169CT-ND◆	11.40	98.77	379.88	2,000	456.00/M	ECH-U1H184GC9
		.22	3.2	PCF1170CT-ND◆	12.93	112.06	431.00	2,000	517.00/M	ECH-U1H224GC9
1913 (4833)	100	.01	1.4	PCF1494CT-ND◆	7.03	60.91	234.25	3,000	281.00/M	ECH-U1103GC9
		.012	1.4	PCF1495CT-ND	7.03	60.91	234.25	3,000	281.00/M	ECH-U1123GC9
		.015	2.0	PCF1496CT-ND	7.03	60.91	234.25	3,000	281.00/M	ECH-U1153GC9
		.018	2.0	PCF1497CT-ND	7.03	60.91	234.25	3,000	281.00/M	ECH-U1183GC9
		.022	2.4	PCF1498CT-ND	7.76	67.21	258.50	2,000	310.00/M	ECH-U1223GC9
		.027	2.8	PCF1499CT-ND◆	8.00	69.29	266.50	2,000	320.00/M	ECH-U1273GC9
2416 (6041)	100	.033	1.8	PCF1500CT-ND	9.45	81.90	315.00	3,000	378.00/M	ECH-U1333GC9
		.039	2.0	PCF1501CT-ND	9.67	83.79	322.25	3,000	387.00/M	ECH-U1393GC9
		.047	2.4	PCF1502CT-ND	10.18	88.21	339.25	2,000	407.00/M	ECH-U1473GC9
		.056	2.8	PCF1503CT-ND	10.42	90.29	347.25	2,000	417.00/M	ECH-U1563GC9
		.068	3.2	PCF1504CT-ND◆	11.15	96.59	371.50	2,000	446.00/M	ECH-U1683GC9
2820 (7150)	100	.082	2.8	PCF1505CT-ND	14.05	121.78	468.38	1,500	562.00/M	ECH-U1823GC9
		.10	3.0	PCF1506CT-ND◆	14.05	121.78	468.38	1,500	562.00/M	ECH-U1104GC9
		.12	3.4	PCF1507CT-ND	14.66	127.04	488.63	1,500	586.00/M	ECH-U1124GC9
2825 (7163)	100	.15	3.4	PCF1508CT-ND◆	16.09	139.43	536.25	1,000	644.00	ECH-U1154GCV
		.18	4.0	PCF1509CT-ND	17.98	155.81	599.25	1,000	719.00	ECH-U1184GCV
		.22	4.8	PCF1510CT-ND◆	19.62	170.07	654.13	1,000	785.00	ECH-U1224GCV
ECH-U(C) (High Grade Type) 5% Tolerance Reflow/Flow										
1913 (4833)	50	.047	1.4	PCF1153CT-ND◆	4.93	42.74	164.38	3,000	197.00/M	ECH-U1H473JC9
		.056	2.0	PCF1154CT-ND◆	5.27	45.63	175.50	3,000	211.00/M	ECH-U1H563JC9
		.068	2.0	PCF1155CT-ND◆	5.55	48.13	185.13	3,000	222.00/M	ECH-U1H683JC9
		.082	2.4	PCF1156CT-ND◆	6.18	53.53	205.88	2,000	247.00/M	ECH-U1H823JC9
		.10	2.8	PCF1157CT-ND◆	6.72	58.21	223.88	2,000	269.00/M	ECH-U1H104JC9
2416 (6041)	50	.12	1.8	PCF1158CT-ND◆	8.33	72.22	277.75	3,000	333.00/M	ECH-U1H124JC9
		.15	2.4	PCF1159CT-ND◆	9.49	82.26	316.38	2,000	380.00/M	ECH-U1H154JC9
		.18	2.8	PCF1160CT-ND◆	12.49	108.23	416.25	2,000	500.00/M	ECH-U1H184JC9
		.22	3.2	PCF1161CT-ND◆	12.35	107.02	411.63	2,000	494.00/M	ECH-U1H224JC9
1913 (4833)	100	.01	1.4	PCF1477CT-ND◆	6.30	54.60	210.00	3,000	252.00/M	ECH-U1103JC9
		.012	1.4	PCF1478CT-ND	6.30	54.60	210.00	3,000	252.00/M	ECH-U1123JC9
		.015	2.0	PCF1479CT-ND	6.30	54.60	210.00	3,000	252.00/M	ECH-U1153JC9
		.018	2.0	PCF1480CT-ND	6.30	54.60	210.00	3,000	252.00/M	ECH-U1183JC9
		.022	2.4	PCF1481CT-ND	6.54	56.71	218.13	2,000	262.00/M	ECH-U1223JC9
		.027	2.8	PCF1482CT-ND	6.78	58.79	226.13	2,000	271.00/M	ECH-U1273JC9
2416 (6041)	100	.033	1.8	PCF1483CT-ND◆	8.00	69.29	266.50	3,000	320.00/M	ECH-U1333JC9
		.039	2.0	PCF1484CT-ND	8.36	72.44	278.63	3,000	334.00/M	ECH-U1393JC9
		.047	2.4	PCF1485CT-ND	8.72	75.60	290.75	2,000	349.00/M	ECH-U1473JC9
		.056	2.8	PCF1486CT-ND	8.84	76.64	294.75	2,000	354.00/M	ECH-U1563JC9
		.068	3.2	PCF1487CT-ND	9.21	79.79	306.88	2,000	368.00/M	ECH-U1683JC9
2820 (7150)	100	.082	2.8	PCF1488CT-ND	12.60	109.20	420.00	1,500	504.00/M	ECH-U1823JC9
		.10	3.0	PCF1489CT-ND	13.08	113.39	436.13	1,500	523.00/M	ECH-U1104JC9
		.12	3.4	PCF1490CT-ND	13.20	114.43	440.13	1,500	528.00/M	ECH-U1124JC9
2825 (7163)	100	.15	3.4	PCF1491CT-ND	14.32	124.09	477.25	1,000	573.00	ECH-U1154JCV
		.18	4.0	PCF1492CT-ND	15.80	136.89	526.50	1,000	632.00	ECH-U1184JCV
		.22	4.8	PCF1493CT-ND◆	17.15	148.66	571.75	1,000	686.00	ECH-U1224JCV

ECH-U(X) Series

Specifications: • Operating Temperature: -55°C ~ 125°C • Rated Voltage: 10VDC, 16VDC, 50VDC • Capacitance Tolerance: 2%, 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤0.6% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 60s) • Reflow Soldering Conditions: 260°C maximum, 30 seconds maximum at more than 230°C (temperature at cap surface)

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					10	100	500	Qty.	Pricing	
ECH-U(X) (High Grade Type) 2% Tolerance, Reflow Only										
0603 (1608)	10	.0033	0.7	PCF1523CT-ND◆	2.94	25.51	98.13	4,000	118.00/M	ECH-U01332GX5
		.0039	0.7	PCF1524CT-ND	2.94	25.51	98.13	4,000	118.00/M	ECH-U01392GX5
		.0047	0.7	PCF1525CT-ND◆	2.94	25.51	98.13	4,000	118.00/M	ECH-U01472GX5
		.0056	0.7	PCF1526CT-ND	2.94	25.51	98.13	4,000	118.00/M	ECH-U01562GX5
	16	.0001	0.7	PCF1441CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C101GX5
		.00012	0.7	PCF1442CT-ND	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C121GX5
		.00015	0.7	PCF1443CT-ND	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C151GX5
		.00018	0.7	PCF1444CT-ND	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C181GX5
		.00022	0.7	PCF1445CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C221GX5
		.00027	0.7	PCF1446CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C271GX5
		.00033	0.7	PCF1447CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C331GX5
		.00039	0.7	PCF1448CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C391GX5
		.00047	0.7	PCF1449CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C471GX5
		.00056	0.7	PCF1450CT-ND	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C561GX5
		.00068	0.7	PCF1451CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C681GX5
		.00082	0.7	PCF1452CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C821GX5
		.001	0.7	PCF1453CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C102GX5
		.0012	0.7	PCF1454CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C122GX5
		.0015	0.7	PCF1455CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C152GX5
		.0018	0.7	PCF1456CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C182GX5
		.0022	0.7	PCF1457CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C222GX5
		.0027	0.7	PCF1458CT-ND◆	2.74	23.73	91.25	4,000	110.00/M	ECH-U1C272GX5
0805 (2012)	10	.0068	0.9	PCF1527CT-ND	2.94	25.51	98.13	3,000	118.00/M	ECH-U01682GX5
		.0082	0.9	PCF1528CT-ND	2.94	25.51	98.13	3,000	118.00/M	ECH-U01822GX5
		.01	0.9	PCF1529CT-ND◆	2.94	25.51	98.13	3,000	118.00/M	ECH-U01103GX5
		.012	0.9	PCF1530CT-ND	3.57	30.91	118.88	3,000	143.00/M	ECH-U01123GX5
		.015	0.9	PCF1531CT-ND◆	3.57	30.91	118.88	3,000	143.00/M	ECH-U01153GX5
		.018	0.9	PCF1532CT-ND	3.57	30.91	118.88	3,000	143.00/M	ECH-U01183GX5
		.022	1.1	PCF1533CT-ND◆	3.57	30.91	118.88	3,000	143.00/M	ECH-U01223GX5
		.027	1.1	PCF1534CT-ND◆	3.90	33.77	129.88	3,000	156.00/M	ECH-U01273GX5
	16	.0033	0.9	PCF1171CT-ND◆	3.17	27.46	105.63	3,000	127.00/M	ECH-U1C332GX5
		.0039	0.9	PCF1172CT-ND◆	3.17	27.46	105.63	3,000	127.00/M	ECH-U1C392GX5
		.0047	0.9	PCF1173CT-ND◆	3.17	27.46	105.63	3,000	127.00/M	ECH-U1C472GX5
		.0056	0.9	PCF1174CT-ND◆	3.17	27.46	105.63	3,000	127.00/M	ECH-U1C562GX5
		.0068	0.9	PCF1175CT-ND	3.17	27.46	105.63	3,000	127.00/M	ECH-U1C682GX5
		.0082	1.1	PCF1176CT-ND◆	3.48	30.19	116.13	3,000	139.00/M	ECH-U1C822GX5
		.01	1.1	PCF1177CT-ND◆	3.48	30.19	116.13	3,000	139.00/M	ECH-U1C103GX5
1206 (3216)	16	.012	0.9	PCF1178CT-ND	3.84	33.28	128.00	3,000	154.00/M	ECH-U1C123GX5
		.015	0.9	PCF1179CT-ND◆	3.84	33.28	128.00	3,000	154.00/M	ECH-U1C153GX5
		.018	0.9	PCF1180CT-ND◆	3.84	33.28	128.00	3,000	154.00/M	ECH-U1C183GX5
		.022	0.9	PCF1181CT-ND◆	3.84	33.28	128.00	3,000	154.00/M	ECH-U1C223GX5
		.027	1.1	PCF1182CT-ND◆	4.20	36.37	139.88	3,000	168.00/M	ECH-U1C273GX5
		.033	1.1	PCF1183CT-ND◆	4.20	36.37	139.88	3,000	168.00/M	ECH-U1C333GX5
		.039	1.5	PCF1184CT-ND	4.55	39.46	151.75	2,000	182.00/M	ECH-U1C393GX5
		.047	1.5	PCF1185CT-ND◆	4.55	39.46	151.75	2,000	182.00/M	ECH-U1C473GX5
1210 (3225)	16	.056	1.5	PCF1186CT-ND◆	5.22	45.27	174.13	2,000	209.00/M	ECH-U1C563GX5
		.068	1.5	PCF1187CT-ND◆	5.22	45.27	174.13	2,000	209.00/M	ECH-U1C683GX5
		.082	2.1	PCF1188CT-ND◆	6.29	54.54	209.75	2,000	252.00/M	ECH-U1C823GX5
		.10	2.1	PCF1189CT-ND◆	6.29	54.54	209.75	2,000	252.00/M	ECH-U1C104GX5
0805 (2012)	50	.0001	0.9	PCF1284CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H101GX5
		.00012	0.9	PCF1285CT-ND	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H121GX5
		.00015	0.9	PCF1286CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H151GX5
		.00018	0.9	PCF1287CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H181GX5
		.00022	0.9	PCF1288CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H221GX5
		.00027	0.9	PCF1289CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H271GX5
		.00033	0.9	PCF1290CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H331GX5
		.00039	0.9	PCF1291CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H391GX5
		.00047	0.9	PCF1292CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H471GX5
		.00056	0.9	PCF1293CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H561GX5
		.00068	0.9	PCF1294CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H681GX5
		.00082	0.9	PCF1295CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H821GX5
		.001	0.9	PCF1296CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H102GX5
		.0012	0.9	PCF1297CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H122GX5
		.0015	0.9	PCF1298CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H152GX5
		.0018	0.9	PCF1299CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H182GX5
		.0022	0.9	PCF1300CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H222GX5
		.0027	0.9	PCF1301CT-ND◆	3.04	26.33	101.25	3,000	122.00/M	ECH-U1H272GX5
1206 (3216)	50	.0033	0.9	PCF1302CT-ND◆	3.84	33.28	128.00	3,000	154.00/M	ECH-U1H332GX5
		.0039	0.9	PCF1303CT-ND◆	3.84	33.28	128.00	3,000	154.00/M	ECH-U1H392GX5
		.0047	0.9	PCF1304CT-ND◆	3.84	33.28	128.00	3,000	154.00/M	ECH-U1H472GX5
		.0056	0.9	PCF1305CT-ND◆	3.84	33.28	128.00	3,000	154.00/M	ECH-U1H562GX5
		.0068	0.9	PCF1306CT-ND◆	3.84	33.28	128.00	3,000	154.00/M	ECH-U1H682GX5
		.0082	1.1	PCF1307CT-ND◆	4.20	36.37	139.88	3,000	168.00/M	ECH-U1H822GX5
		.01	1.1	PCF1308CT-ND◆	4.20	36.37	139.88	3,000	168.00/M	ECH-U1H103GX5
1210 (3225)	50	.012	1.1	PCF1309CT-ND◆	4.20	36.37	139.88	2,000	168.00/M	ECH-U1H123GX5
		.015	1.1	PCF1310CT-ND◆	4.20	36.37	139.88	2,000	168.00/M	ECH-U1H153GX5
		.018	1.5	PCF1311CT-ND◆	4.55	39.46	151.75	2,000	182.00/M	ECH-U1H183GX5

‡ For Tape and Reel part number change CT-ND to TR-ND. ◆ ***RoHS Compliant***

(Continued)

Panasonic®

SMT Capacitors ECW-U and ECH-U – ECH-U(X) Series *(Cont.)*

Case Size	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Panasonic Part No.
					10	100	500	Qty.	Pricing	
1210 (3225)	50	.022	1.5	PCF1312CT-ND◆	4.55	39.46	151.75	2,000	182.00/M	ECH-U1H223GX5
		.027	1.5	PCF1313CT-ND◆	4.55	39.46	151.75	2,000	182.00/M	ECH-U1H273GX5
		.033	2.1	PCF1314CT-ND◆	5.22	45.27	174.13	2,000	209.00/M	ECH-U1H333GX5
		.039	2.1	PCF1315CT-ND◆	5.22	45.27	174.13	2,000	209.00/M	ECH-U1H393GX5
1913 (4833)	50	.047	1.5	PCF1548CT-ND◆	5.18	44.92	172.75	3,000	207.00/M	ECH-U1H473GX9
		.056	1.5	PCF1549CT-ND◆	5.51	47.78	183.75	3,000	221.00/M	ECH-U1H563GX9
		.068	1.5	PCF1550CT-ND◆	5.85	50.67	194.88	3,000	234.00/M	ECH-U1H683GX9
		.082	2.1	PCF1551CT-ND◆	6.47	56.03	215.50	3,000	259.00/M	ECH-U1H823GX9
		.10	2.1	PCF1552CT-ND◆	7.13	61.78	237.63	3,000	285.00/M	ECH-U1H104GX9
2416 (6041)	50	.12	1.9	PCF1553CT-ND◆	8.75	75.79	291.50	3,000	350.00/M	ECH-U1H124GX9
		.15	1.9	PCF1554CT-ND◆	9.99	86.58	333.00	3,000	400.00/M	ECH-U1H154GX9
		.18	2.5	PCF1555CT-ND◆	11.40	98.77	379.88	2,000	456.00/M	ECH-U1H184GX9
		.22	2.8	PCF1556CT-ND◆	12.93	112.06	431.00	2,000	517.00/M	ECH-U1H224GX9
ECH-U(X) (High Grade Type) 5% Tolerance, Reflow Only										
0603 (1608)	10	.0033	0.7	PCF1511CT-ND	2.78	24.08	92.63	4,000	111.00/M	ECH-U01332JX5
		.0039	0.7	PCF1512CT-ND	2.78	24.08	92.63	4,000	111.00/M	ECH-U01392JX5
		.0047	0.7	PCF1513CT-ND◆	2.78	24.08	92.63	4,000	111.00/M	ECH-U01472JX5
		.0056	0.7	PCF1514CT-ND	2.78	24.08	92.63	4,000	111.00/M	ECH-U01562JX5
	16	.0001	0.7	PCF1459CT-ND◆	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C101JX5
		.00012	0.7	PCF1460CT-ND	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C121JX5
		.00015	0.7	PCF1461CT-ND	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C151JX5
		.00018	0.7	PCF1462CT-ND	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C181JX5
		.00022	0.7	PCF1463CT-ND	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C221JX5
		.00027	0.7	PCF1464CT-ND	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C271JX5
		.00033	0.7	PCF1465CT-ND◆	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C331JX5
		.00039	0.7	PCF1466CT-ND	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C391JX5
		.00047	0.7	PCF1467CT-ND◆	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C471JX5
		.00056	0.7	PCF1468CT-ND	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C561JX5
		.00068	0.7	PCF1469CT-ND	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C681JX5
		.00082	0.7	PCF1470CT-ND	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C821JX5
		.001	0.7	PCF1471CT-ND◆	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C102JX5
		.0012	0.7	PCF1472CT-ND	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C122JX5
		.0015	0.7	PCF1473CT-ND◆	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C152JX5
		.0018	0.7	PCF1474CT-ND	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C182JX5
		.0022	0.7	PCF1475CT-ND◆	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C222JX5
		.0027	0.7	PCF1476CT-ND	2.63	22.75	87.50	4,000	105.00/M	ECH-U1C272JX5
0805 (2012)	10	.0068	0.9	PCF1515CT-ND	2.78	24.08	92.63	3,000	111.00/M	ECH-U01682JX5
		.0082	0.9	PCF1516CT-ND	2.78	24.08	92.63	3,000	111.00/M	ECH-U01822JX5
		.01	0.9	PCF1517CT-ND◆	2.78	24.08	92.63	3,000	111.00/M	ECH-U01103JX5
		.012	0.9	PCF1518CT-ND	3.40	29.48	113.38	3,000	136.00/M	ECH-U01123JX5
		.015	0.9	PCF1519CT-ND	3.40	29.48	113.38	3,000	136.00/M	ECH-U01153JX5
		.018	0.9	PCF1520CT-ND	3.40	29.48	113.38	3,000	136.00/M	ECH-U01183JX5
		.022	1.1	PCF1521CT-ND◆	3.40	29.48	113.38	3,000	136.00/M	ECH-U01223JX5
		.027	1.1	PCF1522CT-ND	3.73	32.34	124.38	3,000	149.00/M	ECH-U01273JX5
	16	.0033	0.9	PCF1190CT-ND◆	2.99	25.94	99.75	3,000	120.00/M	ECH-U1C332JX5
		.0039	0.9	PCF1191CT-ND◆	2.99	25.94	99.75	3,000	120.00/M	ECH-U1C392JX5
		.0047	0.9	PCF1192CT-ND◆	2.99	25.94	99.75	3,000	120.00/M	ECH-U1C472JX5
		.0056	0.9	PCF1193CT-ND	2.99	25.94	99.75	3,000	120.00/M	ECH-U1C562JX5
		.0068	0.9	PCF1194CT-ND◆	2.99	25.94	99.75	3,000	120.00/M	ECH-U1C682JX5
		.0082	1.1	PCF1195CT-ND	3.35	29.02	111.63	3,000	134.00/M	ECH-U1C822JX5
		.01	1.1	PCF1196CT-ND◆	3.35	29.02	111.63	3,000	134.00/M	ECH-U1C103JX5
		.012	0.9	PCF1197CT-ND◆	3.66	31.72	122.00	3,000	146.00/M	ECH-U1C123JX5
1206 (3216)	16	.015	0.9	PCF1198CT-ND◆	3.66	31.72	122.00	3,000	146.00/M	ECH-U1C153JX5
		.018	0.9	PCF1199CT-ND	3.66	31.72	122.00	3,000	146.00/M	ECH-U1C183JX5
		.022	0.9	PCF1200CT-ND◆	3.66	31.72	122.00	3,000	146.00/M	ECH-U1C223JX5
		.027	1.1	PCF1201CT-ND◆	4.02	34.81	133.88	3,000	161.00/M	ECH-U1C273JX5
		.033	1.1	PCF1202CT-ND◆	4.02	34.81	133.88	3,000	161.00/M	ECH-U1C333JX5
		.039	1.5	PCF1203CT-ND	4.33	37.54	144.38	2,000	173.00/M	ECH-U1C393JX5
		.047	1.5	PCF1204CT-ND◆	4.33	37.54	144.38	2,000	173.00/M	ECH-U1C473JX5
1210 (3225)	16	.056	1.5	PCF1205CT-ND	5.00	43.32	166.63	2,000	200.00/M	ECH-U1C563JX5
		.068	1.5	PCF1206CT-ND◆	5.00	43.32	166.63	2,000	200.00/M	ECH-U1C683JX5
		.082	2.1	PCF1207CT-ND◆	5.98	51.84	199.38	2,000	239.00/M	ECH-U1C823JX5
		.10	2.1	PCF1208CT-ND◆	5.98	51.84	199.38	2,000	239.00/M	ECH-U1C104JX5
0805 (2012)	50	.0001	0.9	PCF1316CT-ND	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H101JX5
		.00012	0.9	PCF1317CT-ND	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H121JX5
		.00015	0.9	PCF1318CT-ND◆	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H151JX5
		.00018	0.9	PCF1319CT-ND	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H181JX5
		.00022	0.9	PCF1320CT-ND◆	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H221JX5
		.00027	0.9	PCF1321CT-ND	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H271JX5
		.00033	0.9	PCF1322CT-ND	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H331JX5
		.00039	0.9	PCF1323CT-ND	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H391JX5
		.00047	0.9	PCF1324CT-ND◆	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H471JX5
		.00056	0.9	PCF1325CT-ND	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H561JX5
		.00068	0.9	PCF1326CT-ND	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H681JX5
		.00082	0.9	PCF1327CT-ND	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H821JX5
		.001	0.9	PCF1328CT-ND◆	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H102JX5
		.0012	0.9	PCF1329CT-ND◆	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H122JX5
		.0015	0.9	PCF1330CT-ND◆	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H152JX5
		.0018	0.9	PCF1331CT-ND◆	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H182JX5
		.0022	0.9	PCF1332CT-ND◆	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H222JX5
		.0027	0.9	PCF1333CT-ND◆	2.86	24.77	95.25	3,000	114.00/M	ECH-U1H272JX5
1206 (3216)	50	.0033	0.9	PCF1334CT-ND◆	3.66	31.72	122.00	3,000	146.00/M	ECH-U1H332JX5
		.0039	0.9	PCF1335CT-ND	3.66	31.72	122.00	3,000	146.00/M	ECH-U1H392JX5
		.0047	0.9	PCF1336CT-ND◆	3.66	31.72	122.00	3,000	146.00/M	ECH-U1H472JX5
		.0056	0.9	PCF1337CT-ND	3.66	31.72	122.00	3,000	146.00/M	ECH-U1H562JX5
		.0068	0.9	PCF1338CT-ND◆	3.66	31.72	122.00	3,000	146.00/M	ECH-U1H682JX5
		.0082	1.1	PCF1339CT-ND	4.02	34.81	133.88	3,000	161.00/M	ECH-U1H822JX5
		.01	1.1	PCF1340CT-ND◆	4.02	34.81	133.88	3,000	161.00/M	ECH-U1H103JX5
1210 (3225)	50	.012	1.1	PCF1341CT-ND	4.02	34.81	133.88	2,000	161.00/M	ECH-U1H123JX5
		.015	1.1	PCF1342CT-ND◆	4.28	37.05	142.50	2,000	171.00/M	ECH-U1H153JX5
		.018	1.5	PCF1343CT-ND◆	4.33	37.54	144.38	2,000	173.00/M	ECH-U1H183JX5
		.022	1.5	PCF1344CT-ND◆	4.33	37.54	144.38	2,000	173.00/M	ECH-U1H223JX5
		.027	1.5	PCF1345CT-ND◆	4.33	37.54	144.38	2,000	173.00/M	ECH-U1H273JX5
		.033	2.1	PCF1346CT-ND◆	5.00	43.32	166.63	2,000	200.00/M	ECH-U1H333JX5
		.039	2.1	PCF1347CT-ND◆	5.00	43.32	166.63	2,000	200.00/M	ECH-U1H393JX5
1913 (4833)	50	.047	1.5	PCF1557CT-ND◆	4.93	42.74	164.38	3,000	197.00/M	ECH-U1H473JX9
		.056	1.5	PCF1558CT-ND◆	5.27	45.63	175.50	3,000	211.00/M	ECH-U1H563JX9
		.068	1.5	PCF1559CT-ND◆	5.55	48.13	185.13	3,000	222.00/M	ECH-U1H683JX9
		.082	2.1	PCF1560CT-ND◆	6.18	53.53	205.88	3,000	247.00/M	ECH-U1H823JX9
		.10	2.1	PCF1561CT-ND◆	6.72	58.21	223.88	3,000	269.00/M	ECH-U1H104JX9
2416 (6041)	50	.12	1.9	PCF1562CT-ND◆	8.33	72.22	277.75	3,000	333.00/M	ECH-U1H124JX9
		.15	1.9	PCF1563CT-ND◆	9.49	82.26	316.38	3,000	380.00/M	ECH-U1H154JX9
		.18	2.5	PCF1564CT-ND◆	12.49	108.23	416.25	2,000	500.00/M	ECH-U1H184JX9
		.22	2.8	PCF1565CT-ND◆	12.35	107.02	411.63	2,000	494.00/M	ECH-U1H224JX9

‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Panasonic®

SMT Capacitors ECP-U (SF Submicron)

FEATURES: • Small in size • Low ESR • Excellent sound quality

APPLICATIONS: • Coupling • Decoupling • Noise Reduction

SPECIFICATIONS: • Operating Temperature: -40°C ~ 85°C • Dissipation Factor: 1.5% maximum (20°C, 1kHz) • Withstand Voltage: Between terminals rated voltage (VDC) x 175%, 1 to 5s • Insulation Resistance: C≤0.33µF: 1000MΩ minimum (20°C, 16VDC, 60s), C>0.33µF: 300MΩ minimum (20°C, 16VDC, 60s) • Soldering Reflow Conditions: 240°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface)

Note: Solder paste/flux shall have less than 0.1wt% halogen content.

Storage: The unpacked products shall be kept in polyethylene bag together with well-dried silica-gel (from 5g to 10g) or be kept in storage at a temperature of 25°C, with a humidity less than 50% RH. This capacitor shall be used in only reflow method. Don't use in flow, dipping, or VPS soldering method.

A recommended solder paste thickness is between 0.10 (mm) and 0.15 (mm).

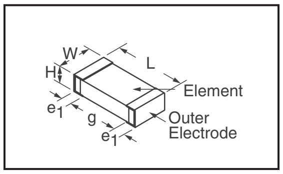

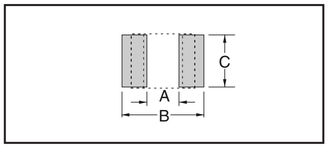

Type / Case Size	Dimensions of Land – mm		
	A	B	C
J2 (0805)	0.8	2.4	1.1
H1-H2-H3 (1206)	1.8	3.6	1.4
G2 (1210)	1.8	3.6	2.3

Case Size	WV DC	Cap. µF	Dimensions – mm					Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
			L	W	H	e1	g			10	100	500		Qty.	Pricing	
ECP-U (A) Type — 20% Tolerance																
0805 (2012)	16	0.10	2.0	1.25	1.0	0.45 ± 0.25	0.6min.	J2	PCF1126CT-ND	3.30	28.60	110.00	PCF1126TR-ND	3,000	132.00/M	ECP-U1C104MA5
1206 (3216)	16	0.15	3.2	1.6	0.8	0.65 ± 0.3	1.0min.	H1	PCF1127CT-ND	3.94	34.13	131.25	PCF1127TR-ND	3,000	158.00/M	ECP-U1C154MA5
		0.22			0.8			H1	PCF1128CT-ND	4.61	39.98	153.75	PCF1128TR-ND	3,000	185.00/M	ECP-U1C224MA5
		0.33			1.0			H2	PCF1129CT-ND	4.61	39.98	153.75	PCF1129TR-ND	3,000	185.00/M	ECP-U1C334MA5
		0.47			1.4			H3	PCF1130CT-ND	5.25	45.50	175.00	PCF1130TR-ND	2,000	210.00/M	ECP-U1C474MA5
		0.68			1.4			H3	PCF1131CT-ND	5.25	45.50	175.00	PCF1131TR-ND	2,000	210.00/M	ECP-U1C684MA5
1210 (3225)	16	1.0	3.2	2.5	1.4	0.65 ± 0.3	1.0min.	G2	PCF1132CT-ND	5.85	50.70	195.00	PCF1132TR-ND	2,000	234.00/M	ECP-U1C105MA5

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® M-Series Polyester and Foil Capacitors

Features:
High insulation resistance. Non-inductive construction: with tinned copper leads welded to the foils. High peak current capability. Solvent-resistant resin coated body.

Applications:
Blocking, by-pass and coupling of D.C. and signals to VHF range. Pulse, logic and timing circuits. Light-duty pulse forming networks. Filter and noise suppression circuits. General purpose usage.

Specifications:
Reference standard: JIS C5113 Characteristic M. Operating temperature range: -40°C ~ 85°C Construction: Polyester film, non-inductive, phenolic/epoxy resin coating, wax impregnation.

Electrical Specifications:
Capacitance Tolerance: ±10% (K). Insulation Resistance: Greater than 10,000 mΩ. Dissipation Factor: Less than 1.0% at 1 KHZ. Dielectric Withstanding Voltage: 250% of rated voltage for 5 seconds. Operating Temperature: -40°C ~ 80°C.

PANASONIC ECQ CROSS REFERENCE

Sprague: 225P, 418P; **Mepco:** 713D1, 711D1, 719D1; **TWR:** 601PE, 601CPE; **Pactron:** PE, FM; **Secor:** MFDN, MFDR; **Roederstein:** KT1805, KT1806, KT1807, KT1808; **Wima:** FKS; **CSF Thompson:** ED (Dip); **Rubycon:** F2X, F2S, F3U; **Nichicon:** TDY; **Nissiei:** AMZ, AMX, AMR, AMM.

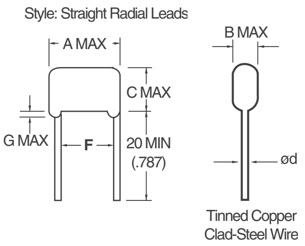

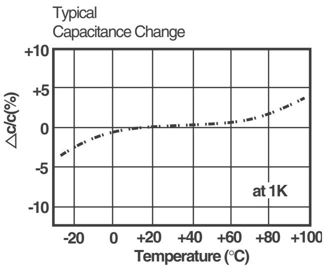

Cap.	Dimensions (mm)						Digi-Key	Pricing					Panasonic
µF	A	B	C	F±1.25	G	d	Part No.	10	100	1,000	5,000	10,000	Part No.
200 WV DC													
.001	9.0	5.0	9.0	5.5	2	0.6	P1029-ND*◆	1.64	13.70	82.00	76.00/M	71.00/M	ECQ-M2102KZ
.0012	9.0	5.0	9.0	5.5	2	0.6	P1030-ND◆	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2122KZ
.0015	9.0	5.0	9.5	5.5	3	0.6	P1031-ND*◆	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2152KZ
.0018	9.0	5.5	9.5	5.5	3	0.6	P1032-ND◆	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2182KZ
.0022	9.0	6.0	10.0	5.5	3	0.6	P1033-ND*◆	1.37	11.40	68.00	63.00/M	59.00/M	ECQ-M2222KZ
.0027	9.0	5.0	9.0	5.5	3	0.6	P1034-ND◆	1.45	12.08	72.00	67.00/M	63.00/M	ECQ-M2272KZ
.0033	9.0	5.0	9.0	5.5	3	0.6	P1035-ND*◆	1.51	12.60	75.00	70.00/M	65.00/M	ECQ-M2332KZ
.0039	12.0	5.5	9.5	7.5	3	0.6	P1036-ND◆	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2392KZ
.0047	12.0	6.0	9.5	7.5	3	0.6	P1037-ND*◆	1.45	12.05	72.00	67.00/M	63.00/M	ECQ-M2472KZ
.0056	12.0	6.0	9.5	7.5	3	0.6	P1038-ND◆	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2562KZ
.0068	12.0	6.0	10.5	7.5	3	0.6	P1039-ND*◆	1.38	11.48	69.00	64.00/M	60.00/M	ECQ-M2682KZ
.0082	14.0	5.5	10.0	9.5	3	0.6	P1040-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2822KZ
.01	14.0	6.0	10.0	9.5	3	0.6	P1041-ND*◆	1.57	13.08	78.00	73.00/M	68.00/M	ECQ-M2103KZ
.012	14.0	6.0	10.5	9.5	3	0.6	P1042-ND	1.58	13.13	78.00	73.00/M	68.00/M	ECQ-M2123KZ
.015	14.0	6.5	11.5	9.5	3	0.6	P1043-ND*	1.42	11.85	71.00	66.00/M	62.00/M	ECQ-M2153KZ
.018	17.0	5.5	10.0	12.5	3	0.6	P1044-ND◆	1.72	14.35	86.00	80.00/M	75.00/M	ECQ-M2183KZ
.022	17.0	5.5	11.0	12.5	3	0.6	P1045-ND*◆	1.75	14.60	87.00	81.00/M	76.00/M	ECQ-M2223KZ
.027	17.0	6.0	11.0	12.5	3	0.6	P1046-ND◆	1.59	13.28	79.00	74.00/M	69.00/M	ECQ-M2273KZ
.033	17.0	6.5	11.5	12.5	3	0.6	P1047-ND*◆	1.70	14.13	84.00	78.00/M	73.00/M	ECQ-M2333KZ
.039	17.0	6.0	13.5	12.5	3	0.6	P1048-ND	2.03	16.90	101.00	94.00/M	88.00/M	ECQ-M2393KZ
.047	17.0	6.5	14.0	12.5	3	0.6	P1049-ND*◆	1.80	15.03	90.00	83.00/M	78.00/M	ECQ-M2473KZ
.056	20.0	6.5	14.0	14.5	3	0.6	P1050-ND	1.92	16.00	96.00	89.00/M	83.00/M	ECQ-M2563KZ
.068	20.0	7.0	14.5	14.5	3	0.6	P1051-ND*◆	2.03	16.90	101.00	94.00/M	88.00/M	ECQ-M2683KZ
.082	20.0	7.5	15.0	15.0	3	0.6	P1052-ND	2.08	17.30	103.00	96.00/M	90.00/M	ECQ-M2823KZ
.1	20.0	8.0	17.0	15.0	3	0.6	P1053-ND*◆	2.88	24.00	143.00	133.00/M	125.00/M	ECQ-M2104KZ

Cap.	Dimensions (mm)						Digi-Key	Pricing					Panasonic
µF	A	B	C	F±1.25	G	d	Part No.	10	100	1,000	5,000	10,000	Part No.
.12	20.0	8.5	17.5	15.0	3	0.8	P1054-ND	3.04	25.35	151.00	141.00/M	132.00/M	ECQ-M2124KZ
.15	20.0	9.5	18.5	15.0	3	0.8	P1055-ND*◆	2.91	24.25	145.00	135.00/M	126.00/M	ECQ-M2154KZ
.18	23.0	13.0	22.0	18.5	3	0.8	P1056-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2184KZ
.22	23.0	14.0	23.0	18.5	3	0.8	P1057-ND*◆	4.32	36.00	215.00	200.00/M	187.00/M	ECQ-M2224KZ
400 WV DC													
.001	11.0	5.5	9.5	6.5	2	0.6	P1058-ND†◆	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4102KZ
.0012	11.0	6.0	10.0	6.5	2	0.6	P1059-ND†◆	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4122KZ
.0015	11.0	6.0	10.0	6.5	2	0.6	P1060-ND†◆	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4152KZ
.0018	11.0	6.0	10.0	6.5	2	0.6	P1061-ND†◆	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4182KZ
.0022	11.0	6.5	10.5	6.5	2	0.6	P1062-ND†◆	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4222KZ
.0027	12.0	6.0	10.0	7.5	2	0.6	P1063-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4272KZ
.0033	12.0	6.5	10.5	7.5	2	0.6	P1064-ND†◆	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4332KZ
.0039	12.0	6.5	10.5	7.5	2	0.6	P1065-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4392KZ
.0047	14.0	6.0	10.0	9.5	2	0.6	P1066-ND†◆	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4472KZ
.0056	14.0	6.0	10.0	9.5	2	0.6	P1067-ND◆	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4562KZ
.0068	14.0	6.5	10.5	9.5	3	0.6	P1068-ND†	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4682KZ
.0082	14.0	6.5	12.0	9.5	3	0.6	P1069-ND◆	1.41	11.75	70.00	65.00/M	61.00/M	ECQ-M4822KZ
.01	14.0	7.0	12.5	9.5	3	0.6	P1070-ND†◆	1.41	11.75	70.00	65.00/M	61.00/M	ECQ-M4103KZ
.012	17.0	6.0	12.0	12.5	3	0.6	P1071-ND◆	1.49	12.38	74.00	69.00/M	64.00/M	ECQ-M4123KZ
.015	17.0	6.5	12.5	12.5	3	0.6	P1072-ND†◆	1.49	12.38	74.00	69.00/M	64.00/M	ECQ-M4153KZ
.018	17.0	7.0	13.0	12.5	3	0.6	P1073-ND◆	1.49	12.38	74.00	69.00/M	64.00/M	ECQ-M4183KZ
.022	17.0	7.5	13.5	12.5	3	0.6	P1074-ND†◆	1.64	13.65	81.00	76.00/M	71.00/M	ECQ-M4223KZ
.027	20.0	7.0	14.5	15.0	2	0.7	P1075-ND	1.79	14.90	89.00	83.00/M	77.00/M	ECQ-M4273KZ
.033	20.0	7.5	15.0	15.0	2	0.7	P1076-ND†◆	1.90	15.85	95.00	88.00/M	82.00/M	ECQ-M4333KZ
.039	20.0	8.5	16.0	15.0	3	0.7	P1077-ND◆	2.02	16.80	100.00	93.00/M	87.00/M	ECQ-M4393KZ
.047	20.0	9.0	16.5	15.0	3	0.7	P1078-ND†◆	2.17	18.08	108.00	100.00/M	94.00/M	ECQ-M4473KZ
.056	23.0	8.5	15.5	18.0	3	0.7	P1079-ND	2.35	19.58	117.00	109.00/M	102.00/M	ECQ-M4563KZ
.068	23.0	9.0	16.5	18.0	3	0.7	P1080-ND†◆	2.66	22.18	132.00	123.00/M	115.00/M	ECQ-M4683KZ
.082	24.0	9.5	17.0	18.0	3	0.8	P1081-ND◆	3.04	25.35	151.00	141.00/M	132.00/M	ECQ-M4823KZ
.1	24.0	10.0	19.0	18.0	3	0.8	P1082-ND†◆	3.31	27.55	164.00	153.00/M	143.00/M	ECQ-M4104KZ

◆ ***RoHS Compliant***

* **M200-KIT-ND** ***Digi-Key® M-Series Capacitors Kit*** 200 Volt Assortment. 10 each of parts indicated. Notebook style storage case and bin storage guide included. **$29.95**

† **M400-KIT-ND** ***Digi-Key® M-Series Capacitors Kit*** 400 Volt Assortment. 10 each of parts indicated. Notebook style storage case and bin storage guide included. **$29.95**

Panasonic® Metallized Polyester Capacitors – ECQE(C) Type

RoHS COMPLIANT

Features:
- Box-type construction (case meets UL94V-0 flame classification, meets requirements of IEC950)
- Operating temperature range: -25°C ~ 85°C (105°C*) (*Requires voltage, current and pulse current derating)

Application:
- Interference suppressor for active circuits

Electrical Specifications:
- Rated Voltage: 450VDC
- Capacitance Tolerance: ±10%
- Withstand Voltage: Between Terminals: 1 minute at 150% of rated voltage (The capacitor shall be applied the voltage through a resistor of 2kµ or more when charged and discharged.) Between Terminal s connected together and case: 1-5 seconds at 200% of rated voltage
- Insulation Resistance Between Terminals: 9,000 MΩ or more (when C≥0.33µF) 3,000 MΩ/µF or more (when C>0.33µF) at 100VDC±15V for 60±5 seconds, at 20°C
- Dissipation Factor: 1.0% or less (measured at a frequency of 1±0.2kHz, at 20°C)

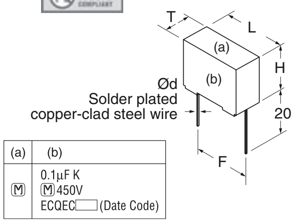

(a)	(b)
Ⓜ	0.1µF K Ⓜ 450V ECQEC☐(Date Code)

WV	Cap.	Toler-	Dimensions (mm)					Digi-Key	Price Each				Panasonic
DC	µF	ance	L	T	H	F	d	Part No.	1	10	100	1,000	Part No.
450	.10	10%	18.5	5.5	14.5	15.0	0.6	P10755-ND	.62	.53	.44	.27	ECQ-E2W104KC
	.15	10%	18.5	6.0	16.5	15.0	0.6	P10756-ND	.75	.65	.54	.32	ECQ-E2W154KC
	.22	10%	18.5	7.0	18.0	15.0	0.6	P10757-ND	.89	.77	.64	.38	ECQ-E2W224KC
	.33	10%	18.0	9.0	17.5	15.0	0.8	P10758-ND	1.10	.94	.79	.47	ECQ-E2W334KC
	.47	10%	18.0	9.5	17.5	15.0	0.8	P10759-ND	1.30	1.12	.93	.56	ECQ-E2W474KC
	.68	10%	25.5	10.5	20.0	22.5	0.8	P10760-ND	1.77	1.53	1.27	.76	ECQ-E2W684KC
	1.0	10%	25.5	12.5	22.0	22.5	0.8	P10761-ND	2.32	2.00	1.66	1.00	ECQ-E2W105KC
	1.5	10%	25.5	15.5	24.5	22.5	0.8	P10762-ND	3.07	2.64	2.20	1.31	ECQ-E2W155KC
	2.2	10%	31.0	14.0	24.5	27.5	0.8	P10763-ND	4.03	3.45	2.88	1.72	ECQ-E2W225KC

Panasonic® P-Series Polypropylene Capacitors

Features: • Wide capacitance range • Close capacitance tolerance • High insulation resistance • Low dissipation factor • Non-inductive construction • Epoxy resin coating

Applications: • Blocking, by-pass and coupling of DC and signal to UHF range • Pulse, logic and timing circuit • Light duty pulse forming network • Filter and noise suppression circuit

Electrical Specifications: • Reference Standard: EIAJ RC-3670A • Temperature Range: -40°C ~ 85°C • Dissipation Factor: .1% maximum at 1KHz and 25°C • Withstand Voltage: 1-5 seconds at 250% of rated voltage • Insulation Resistance: 45,000MΩ minimum, for values less than .33µF. 15,000 MΩ/µF minimum, for .33µF and greater. (Measured after a 2-minute charge at rated voltage and 25°C.)

PANASONIC ECQ-P CROSS REF.: Sprague: 715P **Westlake:** 173/174 **Mepco:** 719E1/719H1 **Secor:** PFDS/PFDR **Roderstein:** KP1835 **Wima:** FKP **CSF Thompson:** PL/PS **Rubycon:** PP **Nisseip:** APS/APA.

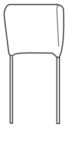

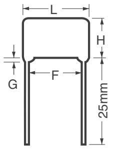

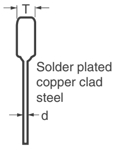

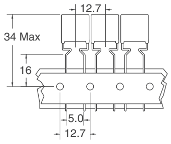

WV	Cap.	Toler-	Dimensions - mm					Digi-Key	Tape and Box Pricing			Panasonic
DC	µF	ance	L	T	H	F	d	Part No.	500	1,000	5,000	Part No.
50	.0001	5%	8.5	4.5	7.5	5.0	0.5	P3101TB-ND◆	—	138.00	133.00/M	ECQ-P1H101JZ3
	.00012	5%	8.5	4.5	7.5	5.0	0.5	P3121TB-ND	—	138.00	133.00/M	ECQ-P1H121JZ3
	.00015	5%	8.5	4.5	7.5	5.0	0.5	P3151TB-ND◆	—	138.00	133.00/M	ECQ-P1H151JZ3
	.00018	5%	8.5	4.5	7.5	5.0	0.5	P3181TB-ND	—	138.00	133.00/M	ECQ-P1H181JZ3
	.00022	5%	8.5	4.5	7.5	5.0	0.5	P3221TB-ND◆	—	138.00	133.00/M	ECQ-P1H221JZ3
	.00027	5%	8.5	4.5	7.5	5.0	0.5	P3271TB-ND◆	—	138.00	133.00/M	ECQ-P1H271JZ3
	.00033	5%	8.5	4.5	7.5	5.0	0.5	P3331TB-ND◆	—	138.00	133.00/M	ECQ-P1H331JZ3
	.00039	5%	8.5	4.5	7.5	5.0	0.5	P3391TB-ND◆	—	138.00	133.00/M	ECQ-P1H391JZ3
	.00047	5%	8.5	4.5	7.5	5.0	0.5	P3471TB-ND◆	—	138.00	133.00/M	ECQ-P1H471JZ3
	.00056	5%	8.5	4.5	7.5	5.0	0.5	P3561TB-ND◆	—	138.00	133.00/M	ECQ-P1H561JZ3
	.00068	5%	8.5	4.5	7.5	5.0	0.5	P3681TB-ND◆	—	138.00	133.00/M	ECQ-P1H681JZ3
	.00082	5%	8.5	4.5	7.5	5.0	0.5	P3821TB-ND◆	—	138.00	133.00/M	ECQ-P1H821JZ3
	.001	2%	8.5	4.5	7.5	5.0	0.5	P3102TB-ND◆	—	193.00	187.00/M	ECQ-P1H102GZ3
	.0012	2%	8.5	4.5	7.5	5.0	0.5	P3122TB-ND◆	—	193.00	187.00/M	ECQ-P1H122GZ3
	.0015	2%	8.5	4.5	7.5	5.0	0.5	P3152TB-ND	—	193.00	187.00/M	ECQ-P1H152GZ3
	.0018	2%	8.5	4.5	7.5	5.0	0.5	P3182TB-ND◆	—	193.00	187.00/M	ECQ-P1H182GZ3
	.0022	2%	8.5	4.5	7.5	5.0	0.5	P3222TB-ND◆	—	193.00	187.00/M	ECQ-P1H222GZ3
	.0027	2%	8.5	4.5	7.5	5.0	0.5	P3272TB-ND	—	193.00	187.00/M	ECQ-P1H272GZ3
	.0033	2%	8.5	4.5	7.5	5.0	0.5	P3332TB-ND◆	—	193.00	187.00/M	ECQ-P1H332GZ3
	.0039	2%	8.5	4.5	7.5	5.0	0.5	P3392TB-ND◆	—	193.00	187.00/M	ECQ-P1H392GZ3
	.0047	2%	8.5	4.5	7.5	5.0	0.5	P3472TB-ND◆	—	193.00	187.00/M	ECQ-P1H472GZ3
	.0056	2%	8.5	4.5	8.0	5.0	0.5	P3562TB-ND◆	—	206.00	199.00/M	ECQ-P1H562GZ3
	.0068	2%	8.5	5.0	8.0	5.0	0.5	P3682TB-ND◆	—	206.00	199.00/M	ECQ-P1H682GZ3
	.0082	2%	12.0	5.5	9.0	5.0	0.6	P3822TB-ND	—	221.00	214.00/M	ECQ-P1H822GZ3
	.01	2%	12.0	5.0	8.5	5.0	0.6	P3103TB-ND◆	—	221.00	214.00/M	ECQ-P1H103GZ3
	.012	2%	12.0	5.5	9.0	5.0	0.6	P3123TB-ND◆	—	221.00	214.00/M	ECQ-P1H123GZ3
	.015	2%	12.0	5.0	9.0	5.0	0.6	P3153TB-ND◆	—	221.00	214.00/M	ECQ-P1H153GZ3
	.018	2%	12.0	5.5	9.5	5.0	0.6	P3183TB-ND◆	—	238.00	230.00/M	ECQ-P1H183GZ3
	.022	2%	12.0	5.5	10.5	5.0	0.6	P3223TB-ND◆	—	238.00	230.00/M	ECQ-P1H223GZ3
	.027	2%	12.0	6.0	11.0	5.0	0.6	P3273TB-ND◆	136.50	—	264.00/M	ECQ-P1H273GZ3
	.033	2%	12.0	6.5	11.5	5.0	0.6	P3333TB-ND◆	136.50	—	264.00/M	ECQ-P1H333GZ3

WV	Cap.	Toler-	Dimensions - mm						Digi-Key	Pricing				Panasonic
DC	µF	ance	L	T	H	F	G	d	Part No.	1	10	100	1,000	Part No.
50	.0001	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3101-ND◆†	.23	1.99	16.58	99.00	ECQ-P1H101JZ
	.00012	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3121-ND◆	.23	1.99	16.58	99.00	ECQ-P1H121JZ
	.00015	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3151-ND◆	.23	1.99	16.58	99.00	ECQ-P1H151JZ
	.00018	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3181-ND◆	.23	1.99	16.58	99.00	ECQ-P1H181JZ
	.00022	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3221-ND◆†	.23	1.99	16.58	99.00	ECQ-P1H221JZ
	.00027	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3271-ND◆	.23	1.99	16.58	99.00	ECQ-P1H271JZ
	.00033	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3331-ND◆†	.23	1.99	16.58	99.00	ECQ-P1H331JZ
	.00039	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3391-ND◆	.23	1.99	16.58	99.00	ECQ-P1H391JZ
	.00047	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3471-ND◆†	.23	1.99	16.58	99.00	ECQ-P1H471JZ
	.00056	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3561-ND◆	.23	1.99	16.58	99.00	ECQ-P1H561JZ
	.00068	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3681-ND◆	.23	1.99	16.58	99.00	ECQ-P1H681JZ
	.00082	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3821-ND◆	.23	1.99	16.58	99.00	ECQ-P1H821JZ
	.001	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3102-ND◆†	.46	3.90	32.50	194.00	ECQ-P1H102GZ
	.0012	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3122-ND◆	.46	3.90	32.50	194.00	ECQ-P1H122GZ
	.0015	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3152-ND◆	.46	3.90	32.50	194.00	ECQ-P1H152GZ
	.0018	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3182-ND◆	.46	3.90	32.50	194.00	ECQ-P1H182GZ
	.0022	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3222-ND◆†	.46	3.90	32.50	194.00	ECQ-P1H222GZ
	.0027	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3272-ND◆	.46	3.90	32.50	194.00	ECQ-P1H272GZ
	.0033	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3332-ND◆†	.46	3.90	32.50	194.00	ECQ-P1H332GZ
	.0039	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3392-ND◆	.46	3.90	32.50	194.00	ECQ-P1H392GZ
	.0047	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3472-ND◆†	.46	3.90	32.50	194.00	ECQ-P1H472GZ
	.0056	2%	8.5	4.5	8.0	5.0	1.0	0.5	P3562-ND◆	.49	4.20	35.00	209.00	ECQ-P1H562GZ
	.0068	2%	8.5	5.0	8.0	5.0	1.0	0.5	P3682-ND◆	.49	4.20	35.00	209.00	ECQ-P1H682GZ
	.0082	2%	12.0	5.5	9.0	7.5	1.0	0.6	P3822-ND◆	.49	4.20	35.00	209.00	ECQ-P1H822GZ
	.01	2%	12.0	5.0	8.5	7.5	1.0	0.6	P3103-ND◆†	.53	4.50	37.50	224.00	ECQ-P1H103GZ
	.012	2%	12.0	5.5	9.0	7.5	1.0	0.6	P3123-ND	.53	4.50	37.50	224.00	ECQ-P1H123GZ
	.015	2%	12.0	5.0	9.0	7.5	1.0	0.6	P3153-ND◆	.53	4.50	37.50	224.00	ECQ-P1H153GZ
	.018	2%	12.0	5.5	9.5	7.5	1.0	0.6	P3183-ND◆	.57	4.86	40.50	242.00	ECQ-P1H183GZ
	.022	2%	12.0	5.5	10.5	7.5	1.0	0.6	P3223-ND◆†	.57	4.86	40.50	242.00	ECQ-P1H223GZ
	.027	2%	12.0	6.0	11.0	7.5	1.0	0.6	P3273-ND◆	.59	5.07	42.25	252.00	ECQ-P1H273GZ
	.033	2%	12.0	6.5	11.5	7.5	1.0	0.6	P3333-ND◆†	.59	5.07	42.25	252.00	ECQ-P1H333GZ
	.039	2%	14.5	5.5	12.0	10.0	1.0	0.6	P3393-ND◆	.64	5.52	46.00	275.00	ECQ-P1H393GZ
	.047	2%	14.5	6.0	12.5	10.0	1.0	0.6	P3473-ND◆†	.64	5.52	46.00	275.00	ECQ-P1H473GZ
	.056	2%	14.5	6.5	13.5	10.0	1.0	0.6	P3563-ND◆	.72	6.15	51.25	306.00	ECQ-P1H563GZ
	.068	2%	14.5	7.0	14.0	10.0	1.0	0.6	P3683-ND◆	.86	7.41	61.75	369.00	ECQ-P1H683GZ
	.082	2%	17.0	7.0	14.0	12.5	1.0	0.6	P3823-ND◆	.86	7.41	61.75	369.00	ECQ-P1H823GZ
	.1	2%	17.0	7.5	14.5	12.5	1.0	0.6	P3104-ND◆†	.86	7.41	61.75	369.00	ECQ-P1H104GZ
	.12	2%	17.0	8.5	15.5	12.5	1.0	0.6	P3124-ND◆	1.06	9.06	75.50	451.00	ECQ-P1H124GZ
	.15	2%	20.0	8.0	15.5	15.0	1.0	0.6	P3154-ND◆	1.06	9.06	75.50	451.00	ECQ-P1H154GZ
	.18	2%	20.0	9.0	16.0	15.0	1.0	0.6	P3184-ND◆	1.28	11.01	91.75	548.00	ECQ-P1H184GZ
	.22	2%	20.0	9.5	17.0	15.0	1.0	0.6	P3224-ND◆†	1.28	11.01	91.75	548.00	ECQ-P1H224GZ
	.27	2%	20.0	10.5	18.0	15.0	1.0	0.6	P3274-ND◆	1.58	13.56	113.00	675.00	ECQ-P1H274GZ
	.33	2%	22.5	10.0	19.5	17.5	1.0	0.8	P3334-ND◆†	1.58	13.56	113.00	675.00	ECQ-P1H334GZ
	.39	2%	22.5	11.0	20.0	17.5	1.0	0.8	P3394-ND◆	1.89	16.20	135.00	806.00	ECQ-P1H394GZ
	.47	2%	22.5	12.0	21.0	17.5	1.0	0.8	P3474-ND◆	1.89	16.20	135.00	806.00	ECQ-P1H474GZ

◆ ***RoHS Compliant***

† **P3100-KIT-ND** ***Digi-Key® P-Series Capacitors Kit*** 10 each of parts indicated. Notebook style storage and bin, storage guide included. — ***RoHS Compliant*** **$69.95**

ECQ-P (Z) Series Polypropylene Film Capacitors

Non-inductive construction using Polypropylene film with epoxy resin coating.

Features:

- Excellent temperature and frequency characteristics
- Excellent long term stability

Applications:

- Dolby circuits
- Oscillation circuits

Electrical Specifications:

• Temperature Range: -40°C ~ 85°C • Rated Voltage: 50VDC, (Voltage derating is required above 70°. See data sheet for details.) • Dissipation Factor: 0.1% maximum at 1kHz and 20° • Withstand Voltage: Between terminals: Rated voltage: (VDC) x 250% 1-5 seconds • Insulation Resistance: C ≤ 0.33µF: 45000MΩ minimum C > 0.33µF: 15000MΩ µF minimum (20°C Rated Voltage - 60s)

.0075 - .47 µF

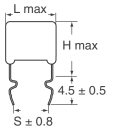

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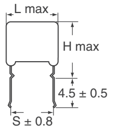

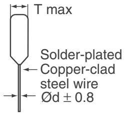

WV	Cap.	Toler-	Dimensions - mm					Digi-Key	Pricing				Panasonic
DC	µF	ance	L	T	H	S	d	Part No.	1	10	100	1,000	Part No.
50	0.0001	5%	8.5	4.5	12.5	5.0	0.50	P3889-ND◆	.23	1.94	16.20	97.20	ECQ-P1H101JZW
	0.00012	5%	8.5	4.5	12.5	5.0	0.50	P3890-ND	.23	1.94	16.20	97.20	ECQ-P1H121JZW
	0.00015	5%	8.5	4.5	12.5	5.0	0.50	P3891-ND◆	.23	1.94	16.20	97.20	ECQ-P1H151JZW
	0.00018	5%	8.5	4.5	12.5	5.0	0.50	P3892-ND◆	.23	1.94	16.20	97.20	ECQ-P1H181JZW
	0.00022	5%	8.5	4.5	12.5	5.0	0.50	P3893-ND◆	.23	1.94	16.20	97.20	ECQ-P1H221JZW
	0.00027	5%	8.5	4.5	12.5	5.0	0.50	P3894-ND◆	.23	1.94	16.20	97.20	ECQ-P1H271JZW
	0.00033	5%	8.5	4.5	12.5	5.0	0.50	P3895-ND◆	.23	1.94	16.20	97.20	ECQ-P1H331JZW
	0.00039	5%	8.5	4.5	12.5	5.0	0.50	P3896-ND	.23	1.94	16.20	97.20	ECQ-P1H391JZW
	0.00047	5%	8.5	4.5	12.5	5.0	0.50	P3897-ND	.23	1.94	16.20	97.20	ECQ-P1H471JZW
	0.00056	5%	8.5	4.5	12.5	5.0	0.50	P3898-ND◆	.23	1.94	16.20	97.20	ECQ-P1H561JZW
	0.00068	5%	8.5	4.5	12.5	5.0	0.50	P3899-ND◆	.23	1.94	16.20	97.20	ECQ-P1H681JZW
	0.00082	5%	8.5	4.5	12.5	5.0	0.50	P3900-ND◆	.23	1.94	16.20	97.20	ECQ-P1H821JZW
	0.0011	2%	8.5	4.5	12.5	5.0	0.50	P3901-ND◆	.35	3.04	25.30	151.80	ECQ-P1H102GZW
	0.0012	2%	8.5	4.5	12.5	5.0	0.50	P3902-ND◆	.35	3.04	25.30	151.80	ECQ-P1H122GZW
	0.0015	2%	8.5	4.5	12.5	5.0	0.50	P3903-ND◆	.35	3.04	25.30	151.80	ECQ-P1H152GZW
	0.0018	2%	8.5	4.5	12.5	5.0	0.50	P3904-ND◆	.35	3.04	25.30	151.80	ECQ-P1H182GZW
	0.0022	2%	8.5	4.5	12.5	5.0	0.50	P3905-ND◆	.35	3.04	25.30	151.80	ECQ-P1H222GZW
	0.0027	2%	8.5	4.5	12.5	5.0	0.50	P3906-ND◆	.35	3.04	25.30	151.80	ECQ-P1H272GZW
	0.0033	2%	8.5	4.5	12.5	5.0	0.50	P3907-ND◆	.35	3.04	25.30	151.80	ECQ-P1H332GZW
	0.0039	2%	8.5	4.5	12.5	5.0	0.50	P3908-ND◆	.35	3.04	25.30	151.80	ECQ-P1H392GZW
	0.0047	2%	8.5	4.5	12.5	5.0	0.50	P3909-ND◆	.35	3.04	25.30	151.80	ECQ-P1H472GZW
	0.0056	2%	8.5	4.5	13.0	5.0	0.50	P3910-ND◆	.38	3.28	27.30	163.80	ECQ-P1H562GZW
	0.0068	2%	8.5	5.0	13.0	5.0	0.50	P3911-ND◆	.38	3.28	27.30	163.80	ECQ-P1H682GZW
	0.0082	2%	12.0	5.5	14.0	5.0	0.60	P3912-ND◆	.38	3.28	27.30	163.80	ECQ-P1H822GZW
	0.01	2%	12.0	5.0	13.5	5.0	0.60	P3913-ND◆	.41	3.55	29.60	177.60	ECQ-P1H103GZW
	0.012	2%	12.0	5.0	14.0	5.0	0.60	P3914-ND◆	.41	3.55	29.60	177.60	ECQ-P1H123GZW
	0.015	2%	12.0	5.0	14.0	5.0	0.60	P3915-ND◆	.41	3.55	29.60	177.60	ECQ-P1H153GZW
	0.018	2%	12.0	5.5	14.5	5.0	0.60	P3916-ND◆	.45	3.86	32.20	193.20	ECQ-P1H183GZW
	0.022	2%	12.0	5.5	15.5	5.0	0.60	P3917-ND◆	.45	3.86	32.20	193.20	ECQ-P1H223GZW
	0.027	2%	12.0	6.0	16.0	5.0	0.60	P3918-ND	.45	3.86	32.20	193.20	ECQ-P1H273GZW
	0.033	2%	12.0	6.5	16.5	5.0	0.60	P3919-ND	.47	4.04	33.63	201.75	ECQ-P1H333GZW
	0.039	2%	14.5	5.5	17.0	5.0	0.60	P3920-ND◆	.52	4.42	36.80	220.80	ECQ-P1H393GZW

WV	Cap.	Toler-	Dimensions - mm					Digi-Key	Pricing				Panasonic
DC	µF	ance	L	T	H	S	d	Part No.	1	10	100	1,000	Part No.
50	0.047	2%	14.5	6.0	17.5	5.0	0.60	P3921-ND◆	.60	5.14	42.85	257.10	ECQ-P1H473GZW
	0.056	2%	14.5	6.5	18.5	5.0	0.60	P3922-ND◆	.60	5.14	42.85	257.10	ECQ-P1H563GZW
	0.068	2%	14.5	7.0	19.0	5.0	0.60	P3923-ND◆	.60	5.14	42.85	257.10	ECQ-P1H683GZW
	0.082	2%	17.0	7.0	19.0	7.5	0.60	P3924-ND◆	.60	5.14	42.85	257.10	ECQ-P1H823GZW
	0.1	2%	17.0	7.5	19.5	7.5	0.60	P3925-ND◆	.82	7.06	58.83	352.95	ECQ-P1H104GZW
	0.12	2%	17.0	8.5	20.5	7.5	0.60	P3926-ND◆	1.03	8.81	73.45	440.70	ECQ-P1H124GZW
	0.15	2%	20.0	8.0	20.5	10.0	0.60	P3927-ND◆	1.03	8.81	73.45	440.70	ECQ-P1H154GZW
	0.18	2%	20.0	9.0	21.0	10.0	0.60	P3928-ND◆	1.10	9.41	78.45	470.70	ECQ-P1H184GZW
	0.22	2%	20.0	9.5	22.0	10.0	0.60	P3929-ND◆	1.32	11.31	94.28	565.65	ECQ-P1H224GZW
	0.27	2%	20.0	10.5	23.0	10.0	0.60	P3930-ND◆	1.32	11.31	94.28	565.65	ECQ-P1H274GZW
	0.33	2%	22.5	10.0	24.5	12.5	0.80	P3931-ND◆	1.33	11.39	94.88	569.25	ECQ-P1H334GZW
	0.39	2%	22.5	11.0	25.0	12.5	0.80	P3932-ND◆	1.59	13.66	113.85	683.10	ECQ-P1H394GZW
	0.47	2%	22.5	12.0	26.0	12.5	0.80	P3933-ND◆	1.59	13.66	113.85	683.10	ECQ-P1H474GZW
	0.001	1%	8.5	4.5	12.5	5.0	0.50	P3824-ND◆	.63	5.42	45.15	270.90	ECQ-P1H102FZW
	0.0011	1%	8.5	4.5	12.5	5.0	0.50	P3825-ND◆	.63	5.42	45.15	270.90	ECQ-P1H112FZW
	0.0012	1%	8.5	4.5	12.5	5.0	0.50	P3826-ND◆	.63	5.42	45.15	270.90	ECQ-P1H122FZW
	0.0013	1%	8.5	4.5	12.5	5.0	0.50	P3827-ND◆	.63	5.42	45.15	270.90	ECQ-P1H132FZW
	0.0015	1%	8.5	4.5	12.5	5.0	0.50	P3828-ND◆	.63	5.42	45.15	270.90	ECQ-P1H152FZW
	0.0016	1%	8.5	4.5	12.5	5.0	0.50	P3829-ND◆	.63	5.42	45.15	270.90	ECQ-P1H162FZW
	0.0018	1%	8.5	4.5	12.5	5.0	0.50	P3830-ND◆	.63	5.42	45.15	270.90	ECQ-P1H182FZW
	0.002	1%	8.5	4.5	12.5	5.0	0.50	P3831-ND◆	.63	5.42	45.15	270.90	ECQ-P1H202FZW
	0.0022	1%	8.5	4.5	12.5	5.0	0.50	P3832-ND◆	.63	5.42	45.15	270.90	ECQ-P1H222FZW
	0.0024	1%	8.5	4.5	12.5	5.0	0.50	P3833-ND◆	.63	5.42	45.18	271.05	ECQ-P1H242FZW
	0.0027	1%	8.5	4.5	12.5	5.0	0.50	P3834-ND◆	.63	5.42	45.18	271.05	ECQ-P1H272FZW
	0.003	1%	8.5	4.5	12.5	5.0	0.50	P3835-ND◆	.63	5.42	45.18	271.05	ECQ-P1H302FZW
	0.0033	1%	8.5	4.5	12.5	5.0	0.50	P3836-ND◆	.63	5.42	45.18	271.05	ECQ-P1H332FZW
	0.0036	1%	8.5	4.5	12.5	5.0	0.50	P3837-ND◆	.63	5.42	45.18	271.05	ECQ-P1H362FZW
	0.0039	1%	8.5	4.5	12.5	5.0	0.50	P3838-ND◆	.63	5.42	45.18	271.05	ECQ-P1H392FZW
	0.0043	1%	8.5	4.5	12.5	5.0	0.50	P3839-ND◆	.63	5.42	45.18	271.05	ECQ-P1H432FZW
	0.0047	1%	8.5	4.5	12.5	5.0	0.50	P3840-ND◆	.63	5.42	45.18	271.05	ECQ-P1H472FZW

◆ ***RoHS Compliant***

(Continued)

Panasonic® ECQ-P (Z) Polypropylene Film Capacitors *(Cont.)*

WV DC	Cap. µF	Toler- ance	Dimensions - mm					Digi-Key Part No.	Pricing				Panasonic Part No.
			L	T	H	S	d		1	10	100	1,000	
50	0.0051	1%	8.5	4.5	13.0	5.0	0.50	P3841-ND◆	.63	5.42	45.18	271.05	ECQ-P1H512FZW
	0.0056	1%	8.5	4.5	13.0	5.0	0.50	P3842-ND◆	.63	5.42	45.18	271.05	ECQ-P1H562FZW
	0.0062	1%	8.5	5.0	13.0	5.0	0.50	P3843-ND◆	.63	5.42	45.18	271.05	ECQ-P1H622FZW
	0.0068	1%	8.5	5.0	13.0	5.0	0.50	P3844-ND◆	.63	5.42	45.18	271.05	ECQ-P1H682FZW
	0.0075	1%	12.0	5.0	14.0	5.0	0.60	P3845-ND◆	.63	5.42	45.18	271.05	ECQ-P1H752FZW
	0.0082	1%	12.0	5.5	14.0	5.0	0.60	P3846-ND◆	.63	5.42	45.18	271.05	ECQ-P1H822FZW
	0.0091	1%	12.0	5.0	13.5	5.0	0.60	P3847-ND◆	.63	5.42	45.18	271.05	ECQ-P1H912FZW
	0.01	1%	12.0	5.0	13.5	5.0	0.60	P3848-ND◆	.63	5.42	45.18	271.05	ECQ-P1H103FZW
	0.011	1%	12.0	5.0	14.0	5.0	0.60	P3849-ND◆	.65	5.56	46.33	277.95	ECQ-P1H113FZW
	0.012	1%	12.0	5.5	14.0	5.0	0.60	P3850-ND◆	.65	5.56	46.33	277.95	ECQ-P1H123FZW
	0.013	1%	12.0	5.0	14.0	5.0	0.60	P3851-ND	.65	5.56	46.33	277.95	ECQ-P1H133FZW
	0.015	1%	12.0	5.0	14.0	5.0	0.60	P3852-ND◆	.65	5.56	46.33	277.95	ECQ-P1H153FZW
	0.016	1%	12.0	5.5	14.0	5.0	0.60	P3853-ND◆	.65	5.56	46.33	277.95	ECQ-P1H163FZW
	0.018	1%	12.0	5.5	14.5	5.0	0.60	P3854-ND◆	.65	5.56	46.33	277.95	ECQ-P1H183FZW
	0.02	1%	12.0	5.5	14.5	5.0	0.60	P3855-ND	.74	6.35	52.90	317.40	ECQ-P1H203FZW
	0.022	1%	12.0	5.5	15.5	5.0	0.60	P3856-ND◆	.61	5.26	43.80	262.80	ECQ-P1H223FZW
	0.024	1%	12.0	6.0	15.5	5.0	0.60	P3857-ND◆	.74	6.35	52.90	317.40	ECQ-P1H243FZW
	0.027	1%	12.0	6.0	16.0	5.0	0.60	P3858-ND◆	.74	6.35	52.90	317.40	ECQ-P1H273FZW
	0.03	1%	12.0	6.5	16.0	5.0	0.60	P3859-ND◆	.84	7.19	59.95	359.70	ECQ-P1H303FZW
	0.033	1%	12.0	6.5	16.5	5.0	0.60	P3860-ND◆	.84	7.19	59.95	359.70	ECQ-P1H333FZW
	0.036	1%	14.5	5.5	17.0	5.0	0.60	P3861-ND◆	.84	7.19	59.95	359.70	ECQ-P1H363FZW
	0.039	1%	14.5	5.5	17.0	5.0	0.60	P3862-ND◆	.84	7.19	59.95	359.70	ECQ-P1H393FZW
	0.043	1%	14.5	6.0	17.0	5.0	0.60	P3863-ND◆	.84	7.19	59.95	359.70	ECQ-P1H433FZW
	0.047	1%	14.5	6.0	17.5	5.0	0.60	P3864-ND◆	.84	7.19	59.95	359.70	ECQ-P1H473FZW

WV DC	Cap. µF	Toler- ance	Dimensions - mm					Digi-Key Part No.	Pricing				Panasonic Part No.
			L	T	H	S	d		1	10	100	1,000	
50	0.051	1%	14.5	6.5	18.5	5.0	0.60	P3865-ND◆	1.11	9.48	79.00	474.00	ECQ-P1H513FZW
	0.056	1%	14.5	6.5	18.5	5.0	0.60	P3866-ND◆	1.11	9.48	79.00	474.00	ECQ-P1H563FZW
	0.062	1%	14.5	7.0	19.0	5.0	0.60	P3867-ND◆	1.11	9.48	79.00	474.00	ECQ-P1H623FZW
	0.068	1%	14.5	7.0	19.0	5.0	0.60	P3868-ND◆	1.11	9.48	79.00	474.00	ECQ-P1H683FZW
	0.075	1%	17.0	6.5	18.5	7.5	0.60	P3869-ND◆	1.11	9.48	79.00	474.00	ECQ-P1H753FZW
	0.082	1%	17.0	7.0	19.0	7.5	0.60	P3870-ND◆	1.11	9.48	79.00	474.00	ECQ-P1H823FZW
	0.091	1%	17.0	7.0	19.0	7.5	0.60	P3871-ND◆	1.11	9.48	79.03	474.15	ECQ-P1H913FZW
	0.1	1%	17.0	7.5	19.5	7.5	0.60	P3872-ND◆	1.15	9.87	82.23	493.35	ECQ-P1H104FZW
	0.11	1%	17.0	8.0	20.5	7.5	0.60	P3873-ND◆	1.43	12.23	101.88	611.25	ECQ-P1H114FZW
	0.12	1%	17.0	8.5	20.5	7.5	0.60	P3874-ND◆	1.43	12.23	101.88	611.25	ECQ-P1H124FZW
	0.13	1%	17.0	8.5	21.0	7.5	0.60	P3875-ND◆	1.43	12.23	101.88	611.25	ECQ-P1H134FZW
	0.15	1%	20.0	8.0	20.5	10.0	0.60	P3876-ND◆	1.43	12.23	101.88	611.25	ECQ-P1H154FZW
	0.16	1%	20.0	8.5	20.5	10.0	0.60	P3877-ND◆	1.43	12.23	101.88	611.25	ECQ-P1H164FZW
	0.18	1%	20.0	9.0	21.0	10.0	0.60	P3878-ND◆	1.43	12.23	101.88	611.25	ECQ-P1H184FZW
	0.20	1%	20.0	9.5	21.5	10.0	0.60	P3879-ND◆	1.43	12.23	101.88	611.25	ECQ-P1H204FZW
	0.22	1%	20.0	9.5	22.0	10.0	0.60	P3880-ND	1.43	12.23	101.88	611.25	ECQ-P1H224FZW
	0.24	1%	20.0	10.0	22.5	10.0	0.60	P3881-ND◆	1.89	16.19	134.90	809.40	ECQ-P1H244FZW
	0.27	1%	20.0	10.5	23.0	10.0	0.60	P3882-ND◆	1.98	17.00	141.70	850.20	ECQ-P1H274FZW
	0.30	1%	22.5	9.5	24.0	12.5	0.80	P3883-ND◆	1.98	17.00	141.70	850.20	ECQ-P1H304FZW
	0.33	1%	22.5	10.0	24.5	12.5	0.80	P3884-ND◆	2.21	18.97	158.05	948.30	ECQ-P1H334FZW
	0.36	1%	22.5	10.5	25.0	12.5	0.80	P3885-ND◆	2.21	18.97	158.05	948.30	ECQ-P1H364FZW
	0.39	1%	22.5	11.0	25.0	12.5	0.80	P3886-ND◆	2.44	20.93	174.40	1046.40	ECQ-P1H394FZW
	0.43	1%	22.5	11.5	25.5	12.5	0.80	P3887-ND◆	2.61	22.40	186.68	1120.05	ECQ-P1H434FZW
	0.47	1%	22.5	12.0	26.0	12.5	0.80	P3888-ND◆	2.76	23.69	197.40	1184.40	ECQ-P1H474FZW

◆ ***RoHS Compliant***

ECQP(U) Series Polypropylene Film Capacitors

Non-inductive construction using Polypropylene film with flame retardant epoxy resin coating.

Features: • Low loss and excellent frequency characteristics • Excellent temperature characteristics • High insulation resistance

Applications: • High frequency and high current circuits • General purpose circuit

Electrical Specifications: • Reference Standard: EIAJ RC-3670B Characteristics P • Temperature Range: -40°C ~ 85°C Derating of rated voltage at more than 85°C (rated voltage x 50%) • Dissipation Factor: 0.1% maximum at 1kHz and 20°C • Withstand Voltage: 1-5 seconds at 250% of rated voltage between terminals • Insulation Resistance: 45,000 MΩ minimum, for values equal to or less than .33µF. 15,000 MΩ/µF minimum, for greater than .33µF (20°C, 100VDC, 60s)

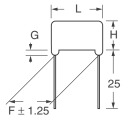

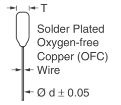

WV DC	Cap. µF	Toler- ance	Dimensions - mm						Digi-Key Part No.	Pricing				Panasonic Part No.
			L	T	H	F	G	d		1	10	100	1,000	
400	.0082	5%	19.5	6.0	16.0	15.0	1.0	0.60	P3475-ND◆	.39	3.33	27.78	166.00	ECQ-P4822JU
	.01	5%	19.5	6.5	16.5	15.0	1.0	0.60	P3476-ND◆	.40	3.43	28.60	171.00	ECQ-P4103JU
	.012	5%	19.5	6.5	18.5	15.0	1.0	0.60	P3477-ND◆	.42	3.58	29.85	178.00	ECQ-P4123JU
	.015	5%	19.5	6.0	18.5	15.0	1.0	0.60	P3478-ND◆	.43	3.72	31.03	185.00	ECQ-P4153JU
	.018	5%	19.5	6.0	19.0	15.0	1.0	0.60	P3479-ND◆	.45	3.87	32.23	192.00	ECQ-P4183JU
	.022	5%	19.5	6.0	19.4	15.0	1.0	0.60	P3480-ND◆	.47	3.99	33.25	199.00	ECQ-P4223JU
	.027	5%	19.5	6.5	20.0	15.0	1.0	0.60	P3481-ND◆	.48	4.10	34.13	204.00	ECQ-P4273JU
	.033	5%	19.5	7.0	21.8	15.0	1.0	0.60	P3482-ND◆	.49	4.24	35.30	211.00	ECQ-P4333JU
	.039	5%	19.5	7.5	22.8	15.0	1.0	0.60	P3483-ND◆	.51	4.34	36.18	216.00	ECQ-P4393JU
	.047	5%	19.5	8.0	23.4	15.0	1.0	0.60	P3484-ND◆	.60	5.13	42.78	255.00	ECQ-P4473JU
	.056	5%	24.5	7.0	22.0	20.0	1.5	0.80	P3485-ND◆	.60	5.18	43.20	258.00	ECQ-P4563JU
	.068	5%	24.5	7.5	23.0	20.0	1.5	0.80	P3486-ND◆	.65	5.58	46.50	278.00	ECQ-P4683JU
	.082	5%	24.5	8.5	23.8	20.0	1.5	0.80	P3487-ND◆	.70	6.00	50.03	299.00	ECQ-P4823JU
	.1	5%	24.5	9.0	26.6	20.0	1.5	0.80	P3488-ND◆	.82	7.00	58.33	348.00	ECQ-P4104JU
	.12	5%	24.5	10.0	27.4	20.0	1.5	0.80	P3489-ND◆	.83	7.16	59.63	356.00	ECQ-P4124JU
	.15	5%	24.5	11.0	28.6	20.0	1.5	0.80	P3490-ND◆	.94	8.02	66.80	399.00	ECQ-P4154JU
	.18	5%	29.5	10.5	26.0	25.0	1.5	0.80	P3491-ND◆	1.03	8.81	73.45	439.00	ECQ-P4184JU
	.22	5%	29.5	11.5	27.0	25.0	1.5	0.80	P3492-ND◆	1.15	9.83	81.90	489.00	ECQ-P4224JU
	.27	5%	29.5	13.0	28.4	25.0	1.5	0.80	P3493-ND◆	1.31	11.23	93.55	559.00	ECQ-P4274JU
	.33	5%	29.5	15.0	29.8	25.0	1.5	0.80	P3494-ND◆	1.44	12.34	102.83	614.00	ECQ-P4334JU
	.39	5%	35.0	15.0	30.0	20.0	1.5	0.80	P3495-ND	1.51	12.95	107.95	644.00	ECQ-P4394JU
	.47	5%	35.0	16.5	31.4	20.0	1.5	0.80	P3496-ND◆	1.61	13.82	115.15	687.00	ECQ-P4474JU
630	.001	5%	14.5	5.0	15.5	10.0	1.0	0.60	P3497-ND◆	.33	2.80	23.30	139.00	ECQ-P6102JU
	.0012	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3498-ND◆	.33	2.80	23.30	139.00	ECQ-P6122JU

WV DC	Cap. µF	Toler- ance	Dimensions - mm						Digi-Key Part No.	Pricing				Panasonic Part No.
			L	T	H	F	G	d		1	10	100	1,000	
630	.0015	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3499-ND◆	.33	2.80	23.30	139.00	ECQ-P6152JU
	.0018	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3500-ND◆	.33	2.80	23.30	139.00	ECQ-P6182JU
	.0022	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3501-ND◆	.33	2.80	23.30	139.00	ECQ-P6222JU
	.0027	5%	14.5	5.5	16.0	10.0	1.0	0.60	P3502-ND◆	.33	2.80	23.30	139.00	ECQ-P6272JU
	.0033	5%	14.5	6.0	16.5	10.0	1.0	0.60	P3503-ND◆	.33	2.80	23.30	139.00	ECQ-P6332JU
	.0039	5%	14.5	6.0	18.5	10.0	1.0	0.60	P3504-ND◆	.33	2.80	23.30	139.00	ECQ-P6392JU
	.0047	5%	14.5	6.5	18.5	10.0	1.0	0.60	P3505-ND◆	.33	2.80	23.30	139.00	ECQ-P6472JU
	.0056	5%	14.5	7.0	19.0	15.0	1.0	0.60	P3506-ND◆	.33	2.80	23.30	139.00	ECQ-P6562JU
	.0068	5%	19.5	5.5	18.6	15.0	1.0	0.60	P3507-ND◆	.36	3.08	25.68	153.00	ECQ-P6682JU
	.0082	5%	19.5	6.0	19.0	15.0	1.0	0.60	P3508-ND◆	.39	3.32	27.65	165.00	ECQ-P6822JU
	.01	5%	19.5	6.0	19.4	15.0	1.0	0.60	P3509-ND◆	.41	3.56	29.63	177.00	ECQ-P6103JU
	.012	5%	19.5	6.5	19.8	15.0	1.0	0.60	P3510-ND◆	.44	3.79	31.60	189.00	ECQ-P6123JU
	.015	5%	19.5	7.0	20.4	15.0	1.0	0.60	P3511-ND◆	.47	4.03	33.58	200.00	ECQ-P6153JU
	.018	5%	19.5	7.0	22.6	15.0	1.0	0.60	P3512-ND◆	.50	4.27	35.55	212.00	ECQ-P6183JU
	.022	5%	19.5	8.0	23.4	15.0	1.0	0.60	P3513-ND◆	.51	4.41	36.73	219.00	ECQ-P6223JU
	.027	5%	19.5	8.5	24.2	15.0	1.0	0.60	P3514-ND	.55	4.74	39.50	236.00	ECQ-P6273JU
	.033	5%	24.5	8.0	23.2	20.0	1.5	0.80	P3515-ND◆	.57	4.88	40.68	243.00	ECQ-P6333JU
	.039	5%	24.5	8.5	23.8	20.0	1.5	0.80	P3516-ND◆	.63	5.40	45.03	269.00	ECQ-P6393JU
	.047	5%	24.5	9.0	24.6	20.0	1.5	0.80	P3517-ND◆	.72	6.16	51.35	307.00	ECQ-P6473JU
	.056	5%	24.5	10.0	27.4	20.0	1.5	0.80	P3518-ND◆	.72	6.16	51.35	307.00	ECQ-P6563JU
	.068	5%	24.5	11.0	28.4	20.0	1.5	0.80	P3519-ND◆	.80	6.83	56.88	340.00	ECQ-P6683JU
	.082	5%	29.5	10.5	25.6	25.0	1.5	0.80	P3520-ND◆	.86	7.40	61.63	368.00	ECQ-P6823JU
	.1	5%	29.5	11.5	26.8	25.0	1.5	0.80	P3521-ND◆	.93	8.01	66.75	399.00	ECQ-P6104JU

◆ ***RoHS Compliant***

ECWF(B) Series Metallized Polypropylene Film Capacitors

Designed for applications where high current and high frequency are required.

Features: • Low-loss • Excellent frequency characteristics • Flame retardant epoxy resin coating

Applications: • High frequency and high current circuits (TV, display, monitor, power supply, etc.)

Electrical Specifications: • Temperature Range: -25°C ~ 85°C • Rated Voltage: 250VDC (150Vrms, 250Vp-p), 400VDC (200Vrms, 400Vp-p) • Dissipation Factor: .068 ~ .51µF: 0.05% max. (20°C, 1kHz) 250VDC, .56 ~ 4.7µF: 0.1% max. (20°C, 1kHz) 250VDC, .068 ~ 4.7µF: 0.2% maximum (20°C, 10kHz) 250VDC, .068 ~ 1.5µF: 0.1% maximum (20°C, 1kHz) 400VDC • Withstand Voltage: Between terminals. • Rated voltage: (VDC) x 150% for 60s • Insulation Resistance: 9,000 MΩ minimum, for values 0.068 ~ .33µF, 3,000 MΩ/µF minimum, for 0.36 ~ 4.7µF (20°C, 100VDC, 60s)

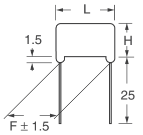

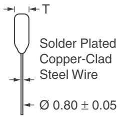

WV DC	Cap. µF	Toler- ance	Dimensions - mm				Digi-Key Part No.	Pricing				Panasonic Part No.
			L	T	H	F		1	10	100	1,000	
250	.068	5%	18.0	6.0	13.0	15.0	PF2683-ND◆	.49	4.18	34.83	209.00	ECW-F2683JB
	.082	5%	18.0	6.5	13.5	15.0	PF2823-ND◆	.49	4.18	34.83	209.00	ECW-F2823JB
	.1	5%	18.0	7.0	14.0	15.0	PF2104-ND◆	.49	4.18	34.83	209.00	ECW-F2104JB
	.12	5%	18.0	7.5	14.5	15.0	PF2124-ND◆	.50	4.28	35.65	213.00	ECW-F2124JB
	.15	5%	18.0	8.5	15.0	15.0	PF2154-ND◆	.55	4.71	39.23	235.00	ECW-F2154JB
	.18	5%	18.0	6.5	13.5	15.0	PF2184-ND◆	.55	4.73	39.45	236.00	ECW-F2184JB
	.22	5%	18.0	7.0	14.0	15.0	PF2224-ND◆	.56	4.82	40.20	241.00	ECW-F2224JB
	.27	5%	18.0	8.0	14.5	15.0	PF2274-ND◆	.58	4.95	41.28	247.00	ECW-F2274JB
	.33	5%	18.0	8.5	15.0	15.0	PF2334-ND◆	.59	5.08	42.35	254.00	ECW-F2334JB
	.39	5%	18.0	9.0	16.0	15.0	PF2394-ND◆	.62	5.34	44.50	266.00	ECW-F2394JB
	.47	5%	23.0	8.0	15.0	20.0	PF2474-ND◆	.65	5.59	46.58	279.00	ECW-F2474JB
	.56	5%	23.0	8.5	15.5	20.0	PF2564-ND◆	.68	5.85	48.73	292.00	ECW-F2564JB
	.68	5%	23.0	9.5	16.5	20.0	PF2684-ND◆	.71	6.10	50.83	304.00	ECW-F2684JB
	.82	5%	23.0	10.5	17.0	20.0	PF2824-ND◆	.73	6.23	51.88	311.00	ECW-F2824JB
	1.0	5%	23.0	11.5	18.0	20.0	PF2105-ND◆	.79	6.74	56.13	336.00	ECW-F2105JB
	1.2	5%	23.0	12.5	19.5	20.0	PF2125-ND	1.38	11.86	98.85	592.00	ECW-F2125JB
	1.5	5%	23.0	14.0	21.0	20.0	PF2155-ND◆	1.48	12.71	105.88	634.00	ECW-F2155JB
	1.8	5%	28.0	12.5	21.0	25.0	PF2185-ND◆	1.61	13.76	114.70	687.00	ECW-F2185JB
	2.2	5%	28.0	14.0	22.5	25.0	PF2225-ND◆	1.73	14.82	123.53	740.00	ECW-F2225JB
	2.7	5%	28.0	15.5	24.0	25.0	PF2275-ND◆	1.99	17.08	142.33	852.00	ECW-F2275JB

WV DC	Cap. µF	Toler- ance	Dimensions - mm				Digi-Key Part No.	Pricing				Panasonic Part No.
			L	T	H	F		1	10	100	1,000	
250	3.3	5%	28.0	17.0	26.0	25.0	PF2335-ND◆	2.79	23.91	199.25	1193.00	ECW-F2335JB
	3.9	5%	33.0	16.5	25.5	30.0	PF2395-ND◆	3.03	26.00	216.70	1298.00	ECW-F2395JB
	4.7	5%	33.0	18.0	27.0	30.0	PF2475-ND◆	3.14	26.90	224.18	1342.00	ECW-F2475JB
400	.068	5%	18.0	6.5	13.0	15.0	PF4683-ND◆	1.53	13.13	102.84	656.40	ECW-F4683JB
	.082	5%	18.0	7.0	13.5	15.0	PF4823-ND	1.53	13.13	102.84	656.40	ECW-F4823JB
	.1	5%	18.0	7.5	14.0	15.0	PF4104-ND◆	1.53	13.13	102.84	656.40	ECW-F4104JB
	.12	5%	18.0	8.0	15.0	15.0	PF4124-ND◆	1.54	13.22	103.59	661.20	ECW-F4124JB
	.15	5%	18.0	8.5	15.5	15.0	PF4154-ND◆	1.70	14.54	113.86	726.75	ECW-F4154JB
	.18	5%	18.0	9.5	16.5	15.0	PF4184-ND	1.71	14.63	114.63	731.70	ECW-F4184JB
	.22	5%	20.0	9.5	16.5	17.0	PF4224-ND	1.74	14.91	116.82	745.65	ECW-F4224JB
	.27	5%	20.0	10.5	17.0	17.0	PF4274-ND◆	1.81	15.53	121.68	776.70	ECW-F4274JB
	.33	5%	20.0	11.5	18.0	17.0	PF4334-ND◆	1.87	16.00	125.35	800.10	ECW-F4334JB
	.39	5%	23.0	13.5	20.5	20.0	PF4394-ND	1.92	16.47	129.04	823.65	ECW-F4394JB
	.47	5%	23.0	14.5	21.5	20.0	PF4474-ND◆	2.03	17.42	136.42	870.75	ECW-F4474JB
	.56	5%	23.0	13.0	20.0	20.0	PF4564-ND	2.14	18.35	143.77	917.70	ECW-F4564JB
	.68	5%	23.0	14.5	21.5	20.0	PF4684-ND◆	2.25	19.30	151.15	964.80	ECW-F4684JB
	.82	5%	28.0	14.0	20.5	25.0	PF4824-ND◆	2.36	20.24	158.53	1011.90	ECW-F4824JB
	1.0	5%	28.0	15.0	22.0	25.0	PF4105-ND◆	2.47	21.18	165.89	1058.85	ECW-F4105JB
	1.2	5%	28.0	16.5	23.5	25.0	PF4125-ND◆	2.64	22.59	176.98	1129.65	ECW-F4125JB
	1.5	5%	28.0	18.5	25.5	25.0	PF4155-ND◆	2.80	24.00	188.02	1200.15	ECW-F4155JB

◆ ***RoHS Compliant***

Panasonic®

Metallized Polypropylene Film Capacitors - ECWF(L)

Non-inductive construction using Polypropylene film with flame retardant epoxy resin coating.

Features: • Miniaturized

Recommended Applications: • Lighting • Power supply • Industrial use • Suitable for high current and high frequency curcuits

Electrical Specifications: • Temperature Range: -40°C ~ 85°C (105°C) • Rated Voltage: 400VDC, 630VDC • Lead Material: *400V:* 0.022μF ~ 0.11μF Tin-plated, Copper-clad, Steel-wire; 0.12μF ~ 2.4μF Tin-plated, Copper-wire *630V:* 0.01μF ~ 0.043μF Tin-plated, Copper-clad, Steel-wire; 0.047μF ~ 1.3μF Tin-plated, Copper-wire • Capacitance Tolerance: ±3% (H), ±5% (J) • Withstanding Voltage: Rated voltage x 150% for 60s • Insulation Resistance: 9,000MΩ minimum, for values equal to or less than .33μF. 3,000 MΩ/μF minimum, for greater than .33μF (20°C, 100VDC and 500VDC, 60s) • Dissipation Factor: 0.05% maximum at 1kHz and 20°C.

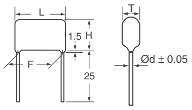

WV DC	Cap. μF	Toler-ance	Dimensions - mm L	T	H	F	d	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
400 WV	.022	±3%	12.5	5.8	8.6	10.0	0.6	P12059-ND◆	1.32	11.29	88.43	564.45	ECW-F4223HL
	.024	±3%	12.5	6.0	8.8	10.0	0.6	P12061-ND◆	1.32	11.29	88.43	564.45	ECW-F4243HL
	.027	±3%	12.5	6.2	9.0	10.0	0.6	P12063-ND	1.38	11.80	92.45	590.10	ECW-F4273HL
	.03	±3%	12.5	6.4	9.3	10.0	0.6	P12065-ND	1.38	11.80	92.45	590.10	ECW-F4303HL
	.033	±3%	12.5	6.7	9.5	10.0	0.6	P12067-ND	1.44	12.32	96.47	615.75	ECW-F4333HL
	.036	±3%	12.5	5.7	8.4	10.0	0.6	P12069-ND	1.44	12.32	96.47	615.75	ECW-F4363HL
	.039	±3%	12.5	5.8	8.6	10.0	0.6	P12071-ND	1.50	12.83	100.49	641.40	ECW-F4393HL
	.043	±3%	12.5	6.0	8.8	10.0	0.6	P12073-ND	1.50	12.83	100.49	641.40	ECW-F4433HL
	.047	±3%	12.5	6.2	9.0	10.0	0.6	P12075-ND◆	1.56	13.34	104.53	667.20	ECW-F4473HL
	.051	±3%	12.5	6.4	9.2	10.0	0.6	P12077-ND	1.56	13.34	104.53	667.20	ECW-F4513HL
	.056	±3%	12.5	6.6	9.4	10.0	0.6	P12079-ND	1.62	13.86	108.55	692.85	ECW-F4563HL
	.062	±3%	13.0	6.8	9.6	10.0	0.8	P12081-ND	1.62	13.86	108.55	692.85	ECW-F4623HL
	.068	±3%	13.0	7.0	9.9	10.0	0.8	P12083-ND◆	1.65	14.11	110.54	705.60	ECW-F4683HL
	.075	±3%	13.0	7.3	10.1	10.0	0.8	P12085-ND	1.65	14.11	110.54	705.60	ECW-F4753HL
	.082	±3%	13.0	7.5	10.4	10.0	0.8	P12087-ND◆	1.65	14.11	110.54	705.60	ECW-F4823HL
	.091	±3%	13.0	7.8	10.7	10.0	0.8	P12089-ND	1.65	14.11	110.54	705.60	ECW-F4913HL
	.1	±3%	15.5	6.5	11.0	12.5	0.8	P12091-ND◆	1.65	14.11	110.54	705.60	ECW-F4104HL
	.11	±3%	15.5	6.8	11.3	12.5	0.8	P12093-ND	1.68	14.41	112.89	720.60	ECW-F4114HL
	.12	±3%	15.5	7.0	11.5	12.5	0.8	P12095-ND◆	1.69	14.45	113.22	722.70	ECW-F4124HL
	.13	±3%	15.5	7.2	11.8	12.5	0.8	P12097-ND	1.77	15.18	118.91	759.00	ECW-F4134HL
	.15	±3%	15.5	7.6	12.2	12.5	0.8	P12099-ND◆	1.86	15.91	124.62	795.45	ECW-F4154HL
	.16	±3%	15.5	7.8	12.4	12.5	0.8	P12101-ND	1.86	15.95	124.95	797.55	ECW-F4164HL
	.18	±3%	15.5	8.2	12.8	12.5	0.8	P12103-ND◆	1.87	15.99	125.28	799.65	ECW-F4184HL
	.2	±3%	15.5	8.6	13.3	12.5	0.8	P12105-ND	1.89	16.21	126.95	810.30	ECW-F4204HL
	.22	±3%	15.5	9.0	13.6	12.5	0.8	P12107-ND◆	1.90	16.29	127.63	814.65	ECW-F4224HL
	.24	±3%	18.0	8.3	13.0	15.0	0.8	P12192-ND◆	1.93	16.53	129.46	826.35	ECW-F4244HL
	.27	±3%	18.0	8.8	13.4	15.0	0.8	P12193-ND◆	1.95	16.74	131.13	837.00	ECW-F4274HL
	.3	±3%	18.0	9.2	13.9	15.0	0.8	P12194-ND◆	1.98	16.96	132.82	847.80	ECW-F4304HL
	.33	±3%	18.0	9.6	14.3	15.0	0.8	P12195-ND◆	2.00	17.17	134.49	858.45	ECW-F4334HL
	.36	±3%	18.0	9.9	14.7	15.0	0.8	P12196-ND◆	2.05	17.60	137.85	879.90	ECW-F4364HL
	.39	±3%	18.0	10.3	15.1	15.0	0.8	P12197-ND◆	2.10	18.03	141.24	901.50	ECW-F4394HL
	.43	±3%	18.0	10.7	15.6	15.0	0.8	P12198-ND◆	2.15	18.46	144.60	922.95	ECW-F4434HL
	.47	±3%	18.0	11.2	16.1	15.0	0.8	P12199-ND◆	2.20	18.89	147.96	944.40	ECW-F4474HL
	.51	±3%	20.5	10.3	16.8	17.5	0.8	P12200-ND◆	2.25	19.32	151.32	965.85	ECW-F4514HL
	.56	±3%	20.5	10.7	17.3	17.5	0.8	P12201-ND◆	2.30	19.75	154.68	987.30	ECW-F4564HL
	.62	±3%	20.5	11.3	17.9	17.5	0.8	P12202-ND◆	2.35	20.18	158.04	1008.75	ECW-F4624HL
	.68	±3%	20.5	11.8	18.5	17.5	0.8	P12203-ND◆	2.40	20.60	161.40	1030.20	ECW-F4684HL
	.75	±3%	20.5	12.3	19.1	17.5	0.8	P12204-ND◆	2.45	21.03	164.76	1051.65	ECW-F4754HL
	.82	±3%	23.0	11.8	18.5	20.0	0.8	P12205-ND◆	2.50	21.46	168.12	1073.10	ECW-F4824HL
	.91	±3%	23.0	12.4	19.2	20.0	0.8	P12206-ND◆	2.58	22.11	173.17	1105.35	ECW-F4914HL
	1.0	±3%	23.0	13.0	19.8	20.0	0.8	P12207-ND	2.65	22.75	178.22	1137.60	ECW-F4105HL
	1.1	±3%	23.0	13.6	20.5	20.0	0.8	P12208-ND◆	2.73	23.39	183.25	1169.70	ECW-F4115HL
	1.2	±3%	28.0	12.3	19.1	25.0	0.8	P12209-ND◆	2.80	24.04	188.31	1201.95	ECW-F4125HL
	1.3	±3%	28.0	12.8	19.6	25.0	0.8	P12210-ND◆	2.90	24.90	195.03	1244.85	ECW-F4135HL
	1.5	±3%	28.0	13.7	20.7	25.0	0.8	P12211-ND◆	3.00	25.76	201.75	1287.75	ECW-F4155HL
	1.6	±3%	28.0	14.2	21.2	25.0	0.8	P12212-ND	3.13	26.83	210.16	1341.45	ECW-F4165HL
	1.8	±3%	28.0	15.2	22.2	25.0	0.8	P12213-ND◆	3.26	27.90	218.55	1395.00	ECW-F4185HL
	2.0	±3%	28.0	16.0	23.1	25.0	0.8	P12214-ND◆	3.38	28.97	226.96	1448.70	ECW-F4205HL
	2.2	±3%	28.0	16.8	24.0	25.0	0.8	P12215-ND◆	3.51	30.05	235.38	1502.40	ECW-F4225HL
	2.4	±3%	28.0	17.5	24.8	25.0	0.8	P12216-ND◆	3.63	31.12	243.79	1556.10	ECW-F4245HL
	.022	±5%	12.5	5.8	8.6	10.0	0.6	P12060-ND◆	1.10	9.41	73.70	470.40	ECW-F4223JL
	.024	±5%	12.5	6.0	8.8	10.0	0.6	P12062-ND◆	1.10	9.41	73.70	470.40	ECW-F4243JL
	.027	±5%	12.5	6.2	9.0	10.0	0.6	P12064-ND◆	1.15	9.84	77.06	491.85	ECW-F4273JL
	.03	±5%	12.5	6.4	9.3	10.0	0.6	P12066-ND	1.15	9.84	77.06	491.85	ECW-F4303JL
	.033	±5%	12.5	6.7	9.5	10.0	0.6	P12068-ND◆	1.20	10.26	80.39	513.15	ECW-F4333JL
	.036	±5%	12.5	5.7	8.4	10.0	0.6	P12070-ND	1.20	10.26	80.39	513.15	ECW-F4363JL
	.039	±5%	12.5	5.8	8.6	10.0	0.6	P12072-ND	1.25	10.69	83.75	534.60	ECW-F4393JL
	.043	±5%	12.5	6.0	8.8	10.0	0.6	P12074-ND	1.25	10.69	83.75	534.60	ECW-F4433JL
	.047	±5%	12.5	6.2	9.0	10.0	0.6	P12076-ND	1.30	11.12	87.09	555.90	ECW-F4473JL
	.051	±5%	12.5	6.4	9.2	10.0	0.6	P12078-ND	1.30	11.12	87.09	555.90	ECW-F4513JL
	.056	±5%	12.5	6.6	9.4	10.0	0.6	P12080-ND	1.35	11.55	90.45	577.35	ECW-F4563JL
	.062	±5%	13.0	6.8	9.6	10.0	0.8	P12082-ND	1.35	11.55	90.45	577.35	ECW-F4623JL
	.068	±5%	13.0	7.0	9.9	10.0	0.8	P12084-ND◆	1.40	11.97	93.79	598.65	ECW-F4683JL
	.075	±5%	13.0	7.3	10.1	10.0	0.8	P12086-ND	1.40	11.97	93.79	598.65	ECW-F4753JL
	.082	±5%	13.0	7.5	10.4	10.0	0.8	P12088-ND◆	1.40	11.97	93.79	598.65	ECW-F4823JL
	.091	±5%	13.0	7.8	10.7	10.0	0.8	P12090-ND	1.40	11.97	93.79	598.65	ECW-F4913JL
	.1	±5%	15.5	6.5	11.0	12.5	0.8	P12092-ND◆	1.40	11.97	93.79	598.65	ECW-F4104JL
	.11	±5%	15.5	6.8	11.3	12.5	0.8	P12094-ND	1.40	12.02	94.14	600.90	ECW-F4114JL
	.12	±5%	15.5	7.0	11.5	12.5	0.8	P12096-ND◆	1.41	12.06	94.47	603.00	ECW-F4124JL
400 WV	.13	±5%	15.5	7.2	11.8	12.5	0.8	P12098-ND	1.48	12.66	99.15	632.85	ECW-F4134JL
	.15	±5%	15.5	7.6	12.2	12.5	0.8	P12100-ND	1.55	13.26	103.85	662.85	ECW-F4154JL
	.16	±5%	15.5	7.8	12.4	12.5	0.8	P12102-ND	1.55	13.30	104.18	664.95	ECW-F4164JL
	.18	±5%	15.5	8.2	12.8	12.5	0.8	P12104-ND	1.56	13.34	104.53	667.20	ECW-F4184JL
	.2	±5%	15.5	8.6	13.3	12.5	0.8	P12106-ND	1.58	13.52	105.87	675.75	ECW-F4204JL
	.22	±5%	15.5	9.0	13.6	12.5	0.8	P12108-ND◆	1.59	13.60	106.53	679.95	ECW-F4224JL
	.24	±5%	18.0	8.3	13.0	15.0	0.8	P12217-ND◆	1.63	13.95	109.28	697.50	ECW-F4244JL
	.27	±5%	18.0	8.8	13.4	15.0	0.8	P12218-ND◆	1.65	14.17	110.97	708.30	ECW-F4274JL
	.3	±5%	18.0	9.2	13.9	15.0	0.8	P12219-ND◆	1.68	14.38	112.66	719.10	ECW-F4304JL
	.33	±5%	18.0	9.6	14.3	15.0	0.8	P12220-ND◆	1.70	14.60	114.33	729.75	ECW-F4334JL
	.36	±5%	18.0	9.9	14.7	15.0	0.8	P12221-ND	1.73	14.81	116.02	740.55	ECW-F4364JL
	.39	±5%	18.0	10.3	15.1	15.0	0.8	P12222-ND◆	1.75	15.02	117.69	751.20	ECW-F4394JL
	.43	±5%	18.0	10.7	15.6	15.0	0.8	P12223-ND◆	1.80	15.45	121.05	772.65	ECW-F4434JL
	.47	±5%	18.0	11.2	16.1	15.0	0.8	P12224-ND◆	1.85	15.88	124.41	794.10	ECW-F4474JL
	.51	±5%	20.5	10.3	16.8	17.5	0.8	P12225-ND◆	1.90	16.31	127.77	815.55	ECW-F4514JL
	.56	±5%	20.5	10.7	17.3	17.5	0.8	P12226-ND◆	1.95	16.74	131.13	837.00	ECW-F4564JL
	.62	±5%	20.5	11.3	17.9	17.5	0.8	P12227-ND◆	2.00	17.17	134.49	858.45	ECW-F4624JL
	.68	±5%	20.5	11.8	18.5	17.5	0.8	P12228-ND◆	2.05	17.60	137.85	879.90	ECW-F4684JL
	.75	±5%	20.5	12.3	19.1	17.5	0.8	P12229-ND◆	2.10	18.03	141.24	901.50	ECW-F4754JL
	.82	±5%	23.0	11.8	18.5	20.0	0.8	P12230-ND◆	2.15	18.46	144.60	922.95	ECW-F4824JL
	.91	±5%	23.0	12.4	19.2	20.0	0.8	P12231-ND	2.20	18.89	147.96	944.40	ECW-F4914JL
	1.0	±5%	23.0	13.0	19.8	20.0	0.8	P12232-ND◆	2.25	19.32	151.32	965.85	ECW-F4105JL
	1.1	±5%	23.0	13.6	20.5	20.0	0.8	P12233-ND	2.33	19.96	156.35	997.95	ECW-F4115JL
	1.2	±5%	28.0	12.3	19.1	25.0	0.8	P12234-ND◆	2.40	20.60	161.40	1030.20	ECW-F4125JL
	1.3	±5%	28.0	12.8	19.6	25.0	0.8	P12235-ND◆	2.48	21.25	166.45	1062.45	ECW-F4135JL
	1.5	±5%	28.0	13.7	20.7	25.0	0.8	P12236-ND◆	2.55	21.89	171.48	1094.55	ECW-F4155JL
	1.6	±5%	28.0	14.2	21.2	25.0	0.8	P12237-ND◆	2.65	22.75	178.22	1137.60	ECW-F4165JL
	1.8	±5%	28.0	15.2	22.2	25.0	0.8	P12238-ND◆	2.75	23.61	184.95	1180.50	ECW-F4185JL
	2.0	±5%	28.0	16.0	23.1	25.0	0.8	P12239-ND◆	2.88	24.68	193.33	1234.05	ECW-F4205JL
	2.2	±5%	28.0	16.8	24.0	25.0	0.8	P12240-ND◆	3.00	25.76	201.75	1287.75	ECW-F4225JL
	2.4	±5%	28.0	17.5	24.8	25.0	0.8	P12241-ND◆	3.13	26.83	210.16	1341.45	ECW-F4245JL
630 WV	.01	±3%	12.5	5.2	8.0	10.0	0.6	P12109-ND◆	1.33	11.40	89.32	570.15	ECW-F6103HL
	.011	±3%	12.5	5.4	8.2	10.0	0.6	P12111-ND	1.33	11.40	89.32	570.15	ECW-F6113HL
	.012	±3%	12.5	5.5	8.3	10.0	0.6	P12113-ND	1.33	11.40	89.32	570.15	ECW-F6123HL
	.013	±3%	12.5	5.6	8.5	10.0	0.6	P12115-ND	1.33	11.40	89.32	570.15	ECW-F6133HL
	.015	±3%	12.5	5.9	8.7	10.0	0.6	P12117-ND◆	1.33	11.40	89.32	570.15	ECW-F6153HL
	.016	±3%	12.5	6.0	8.9	10.0	0.6	P12119-ND◆	1.33	11.40	89.32	570.15	ECW-F6163HL
	.018	±3%	12.5	6.2	9.1	10.0	0.6	P12121-ND	1.40	11.97	93.79	598.65	ECW-F6183HL
	.02	±3%	12.5	6.5	9.3	10.0	0.6	P12123-ND◆	1.40	11.97	93.79	598.65	ECW-F6203HL
	.022	±3%	12.5	6.2	9.0	10.0	0.6	P12125-ND◆	1.21	10.38	81.29	518.85	ECW-F6223HL
	.024	±3%	12.5	6.4	9.2	10.0	0.6	P12127-ND◆	1.46	12.54	98.25	627.15	ECW-F6243HL
	.027	±3%	13.0	6.6	9.5	10.0	0.8	P12129-ND	1.53	13.11	102.72	655.65	ECW-F6273HL
	.03	±3%	13.0	6.9	9.7	10.0	0.8	P12131-ND	1.53	13.11	102.72	655.65	ECW-F6303HL
	.033	±3%	13.0	7.1	10.0	10.0	0.8	P12133-ND◆	1.60	13.69	107.21	684.30	ECW-F6333HL
	.036	±3%	13.0	7.3	10.2	10.0	0.8	P12135-ND	1.60	13.69	107.21	684.30	ECW-F6363HL
	.039	±3%	13.0	7.6	10.4	10.0	0.8	P12137-ND	1.66	14.26	111.67	712.80	ECW-F6393HL
	.043	±3%	13.0	7.9	10.7	10.0	0.8	P12139-ND	1.66	14.26	111.67	712.80	ECW-F6433HL
	.047	±3%	15.5	6.4	10.8	12.5	0.8	P12141-ND	1.73	14.83	116.14	741.30	ECW-F6473HL
	.051	±3%	15.5	6.6	11.0	12.5	0.8	P12143-ND	1.73	14.83	116.14	741.30	ECW-F6513HL
	.056	±3%	15.5	6.8	11.2	12.5	0.8	P12145-ND	1.80	15.40	120.60	769.80	ECW-F6563HL
	.062	±3%	15.5	7.1	11.5	12.5	0.8	P12147-ND	1.80	15.40	120.60	769.80	ECW-F6623HL
	.068	±3%	15.5	7.4	11.8	12.5	0.8	P12149-ND◆	1.83	15.68	122.83	784.05	ECW-F6683HL
	.075	±3%	15.5	7.7	12.1	12.5	0.8	P12151-ND	1.83	15.68	122.83	784.05	ECW-F6753HL
	.082	±3%	15.5	8.0	12.4	12.5	0.8	P12153-ND	1.83	15.68	122.83	784.05	ECW-F6823HL
	.091	±3%	15.5	8.3	12.7	12.5	0.8	P12155-ND	1.83	15.68	122.83	784.05	ECW-F6913HL
	.1	±3%	18.0	7.7	12.1	15.0	0.8	P12157-ND◆	1.83	15.68	122.83	784.05	ECW-F6104HL
	.11	±3%	18.0	8.0	12.4	15.0	0.8	P12159-ND	1.87	16.01	125.44	800.70	ECW-F6114HL
	.12	±3%	18.0	8.3	12.7	15.0	0.8	P12161-ND	1.87	16.06	125.80	802.95	ECW-F6124HL
	.13	±3%	18.0	8.5	13.0	15.0	0.8	P12163-ND	1.97	16.87	132.14	843.45	ECW-F6134HL
	.15	±3%	18.0	9.1	13.5	15.0	0.8	P12165-ND◆	2.06	17.68	138.46	883.80	ECW-F6154HL
	.16	±3%	18.0	9.3	13.8	15.0	0.8	P12167-ND	2.07	17.72	138.84	886.20	ECW-F6164HL
	.18	±3%	18.0	9.8	14.2	15.0	0.8	P12169-ND◆	2.07	17.77	139.21	888.60	ECW-F6184HL
	.2	±3%	18.0	10.3	14.7	15.0	0.8	P12171-ND	2.10	18.01	141.07	900.45	ECW-F6204HL
	.22	±3%	18.0	10.8	15.5	15.0	0.8	P12173-ND◆	2.11	18.10	141.80	905.10	ECW-F6224HL
	.24	±3%	18.0	11.2	15.9	15.0	0.8	P12242-ND	2.12	18.20	142.55	909.90	ECW-F6244HL
	.27	±3%	20.5	10.4	16.7	17.5	0.8	P12243-ND◆	2.15	18.46	144.60	922.95	ECW-F6274HL
	.3	±3%	20.5	10.9	17.2	17.5	0.8	P12244-ND	2.18	18.67	146.26	933.60	ECW-F6304HL
	.33	±3%	20.5	11.4	17.7	17.5	0.8	P12245-ND◆	2.20	18.89	147.96	944.40	ECW-F6334HL
	.36	±3%	20.5	11.9	18.5	17.5	0.8	P12246-ND◆	2.23	19.10	149.62	955.05	ECW-F6364HL

◆ ***RoHS Compliant***

(Continued)

Panasonic® Metallized Polypropylene Film Capacitors - ECWF(L) *(Cont.)*

WV DC	Cap. µF	Toler-ance	Dimensions - mm					Digi-Key Part No.	Pricing				Panasonic Part No.
			L	T	H	F	d		1	10	100	1,000	
630 WV	.39	±3%	20.5	12.4	19.0	17.5	0.8	P12247-ND◆	2.25	19.32	151.32	965.85	ECW-F6394HL
	.43	±3%	20.5	13.0	19.5	17.5	0.8	P12248-ND◆	2.30	19.75	154.68	987.30	ECW-F6434HL
	.47	±3%	20.5	13.5	20.1	17.5	0.8	P12249-ND◆	2.35	20.18	158.04	1008.75	ECW-F6474HL
	.51	±3%	28.0	11.1	17.3	25.0	0.8	P12250-ND◆	2.40	20.60	161.40	1030.20	ECW-F6514HL
	.56	±3%	28.0	11.6	17.8	25.0	0.8	P12251-ND◆	2.45	21.03	164.76	1051.65	ECW-F6564HL
	.62	±3%	28.0	12.1	18.7	25.0	0.8	P12252-ND◆	2.50	21.46	168.12	1073.10	ECW-F6624HL
	.68	±3%	28.0	12.7	19.3	25.0	0.8	P12253-ND◆	2.58	22.11	173.17	1105.35	ECW-F6684HL
	.75	±3%	28.0	13.3	19.9	25.0	0.8	P12254-ND◆	2.65	22.75	178.22	1137.60	ECW-F6754HL
	.82	±3%	28.0	13.9	20.5	25.0	0.8	P12255-ND◆	2.73	23.39	183.25	1169.70	ECW-F6824HL
	.91	±3%	28.0	14.6	21.2	25.0	0.8	P12256-ND◆	2.80	24.04	188.31	1201.95	ECW-F6914HL
	1.0	±3%	28.0	15.5	22.3	25.0	0.8	P12257-ND◆	2.90	24.90	195.03	1244.85	ECW-F6105HL
	1.1	±3%	28.0	16.3	23.0	25.0	0.8	P12258-ND◆	3.00	25.76	201.75	1287.75	ECW-F6115HL
	1.2	±3%	28.0	17.0	23.7	25.0	0.8	P12259-ND◆	3.13	26.83	210.16	1341.45	ECW-F6125HL
	1.3	±3%	28.0	17.6	24.4	25.0	0.8	P12260-ND◆	3.26	27.90	218.55	1395.00	ECW-F6135HL
	.01	±5%	12.5	5.2	8.0	10.0	0.6	P12110-ND◆	1.11	9.50	74.45	475.20	ECW-F6103JL
	.011	±5%	12.5	5.4	8.2	10.0	0.6	P12112-ND	1.11	9.50	74.45	475.20	ECW-F6113JL
	.012	±5%	12.5	5.5	8.3	10.0	0.6	P12114-ND◆	1.11	9.50	74.45	475.20	ECW-F6123JL
	.013	±5%	12.5	5.6	8.5	10.0	0.6	P12116-ND	1.11	9.50	74.45	475.20	ECW-F6133JL
	.015	±5%	12.5	5.9	8.7	10.0	0.6	P12118-ND◆	1.11	9.50	74.45	475.20	ECW-F6153JL
	.016	±5%	12.5	6.0	8.9	10.0	0.6	P12120-ND	1.11	9.50	74.45	475.20	ECW-F6163JL
	.018	±5%	12.5	6.2	9.1	10.0	0.6	P12122-ND	1.16	9.98	78.16	498.90	ECW-F6183JL
	.02	±5%	12.5	6.5	9.3	10.0	0.6	P12124-ND	1.16	9.98	78.16	498.90	ECW-F6203JL
	.022	±5%	12.5	6.2	9.0	10.0	0.6	P12126-ND	1.22	10.46	81.90	522.75	ECW-F6223JL
	.024	±5%	12.5	6.4	9.2	10.0	0.6	P12128-ND◆	1.22	10.46	81.90	522.75	ECW-F6243JL
	.027	±5%	13.0	6.6	9.5	10.0	0.8	P12130-ND	1.28	10.93	85.61	546.45	ECW-F6273JL
	.03	±5%	13.0	6.9	9.7	10.0	0.8	P12132-ND	1.28	10.93	85.61	546.45	ECW-F6303JL
	.033	±5%	13.0	7.1	10.0	10.0	0.8	P12134-ND	1.33	11.40	89.32	570.15	ECW-F6333JL
	.036	±5%	13.0	7.3	10.2	10.0	0.8	P12136-ND	1.33	11.40	89.32	570.15	ECW-F6363JL
	.039	±5%	13.0	7.6	10.4	10.0	0.8	P12138-ND	1.39	11.88	93.06	594.00	ECW-F6393JL
	.043	±5%	13.0	7.9	10.7	10.0	0.8	P12140-ND	1.39	11.88	93.06	594.00	ECW-F6433JL
	.047	±5%	15.5	6.4	10.8	12.5	0.8	P12142-ND	1.44	12.35	96.77	617.70	ECW-F6473JL
	.051	±5%	15.5	6.6	11.0	12.5	0.8	P12144-ND◆	1.44	12.35	96.77	617.70	ECW-F6513JL
	.056	±5%	15.5	6.8	11.2	12.5	0.8	P12146-ND	1.50	12.83	100.49	641.40	ECW-F6563JL
630 WV	.062	±5%	15.5	7.1	11.5	12.5	0.8	P12148-ND	1.50	12.83	100.49	641.40	ECW-F6623JL
	.068	±5%	15.5	7.4	11.8	12.5	0.8	P12150-ND◆	1.55	13.31	104.22	665.25	ECW-F6683JL
	.075	±5%	15.5	7.7	12.1	12.5	0.8	P12152-ND	1.55	13.31	104.22	665.25	ECW-F6753JL
	.082	±5%	15.5	8.0	12.4	12.5	0.8	P12154-ND	1.55	13.31	104.22	665.25	ECW-F6823JL
	.091	±5%	15.5	8.3	12.7	12.5	0.8	P12156-ND	1.55	13.31	104.22	665.25	ECW-F6913JL
	.1	±5%	18.0	7.7	12.1	15.0	0.8	P12158-ND◆	1.55	13.31	104.22	665.25	ECW-F6104JL
	.11	±5%	18.0	8.0	12.4	15.0	0.8	P12160-ND	1.56	13.35	104.60	667.65	ECW-F6114JL
	.12	±5%	18.0	8.3	12.7	15.0	0.8	P12162-ND	1.56	13.40	104.97	670.05	ECW-F6124JL
	.13	±5%	18.0	8.5	13.0	15.0	0.8	P12164-ND	1.64	14.06	110.17	703.20	ECW-F6134JL
	.15	±5%	18.0	9.1	13.5	15.0	0.8	P12166-ND◆	1.72	14.73	115.39	736.50	ECW-F6154JL
	.16	±5%	18.0	9.3	13.8	15.0	0.8	P12168-ND	1.72	14.78	115.76	738.90	ECW-F6164JL
	.18	±5%	18.0	9.8	14.2	15.0	0.8	P12170-ND	1.73	14.83	116.14	741.30	ECW-F6184JL
	.2	±5%	18.0	10.3	14.7	15.0	0.8	P12172-ND	1.75	15.02	117.62	750.75	ECW-F6204JL
	.22	±5%	18.0	10.8	15.5	15.0	0.8	P12174-ND◆	1.76	15.11	118.37	755.55	ECW-F6224JL
	.24	±5%	18.0	11.2	15.9	15.0	0.8	P12261-ND◆	1.78	15.25	119.47	762.60	ECW-F6244JL
	.27	±5%	20.5	10.4	16.7	17.5	0.8	P12262-ND◆	1.83	15.67	122.74	783.45	ECW-F6274JL
	.3	±5%	20.5	10.9	17.2	17.5	0.8	P12263-ND◆	1.85	15.88	124.41	794.10	ECW-F6304JL
	.33	±5%	20.5	11.4	17.7	17.5	0.8	P12264-ND◆	1.88	16.10	126.10	804.90	ECW-F6334JL
	.36	±5%	20.5	11.9	18.5	17.5	0.8	P12265-ND◆	1.90	16.31	127.77	815.55	ECW-F6364JL
	.39	±5%	20.5	12.4	19.0	17.5	0.8	P12266-ND◆	1.93	16.53	129.46	826.35	ECW-F6394JL
	.43	±5%	20.5	13.0	19.5	17.5	0.8	P12267-ND◆	1.95	16.74	131.13	837.00	ECW-F6434JL
	.47	±5%	20.5	13.5	20.1	17.5	0.8	P12268-ND◆	1.98	16.96	132.82	847.80	ECW-F6474JL
	.51	±5%	28.0	11.1	17.3	25.0	0.8	P12269-ND◆	2.00	17.17	134.49	858.45	ECW-F6514JL
	.56	±5%	28.0	11.6	17.8	25.0	0.8	P12270-ND◆	2.05	17.60	137.85	879.90	ECW-F6564JL
	.62	±5%	28.0	12.1	18.7	25.0	0.8	P12271-ND◆	2.10	18.03	141.24	901.50	ECW-F6624JL
	.68	±5%	28.0	12.7	19.3	25.0	0.8	P12272-ND	2.15	18.46	144.60	922.95	ECW-F6684JL
	.75	±5%	28.0	13.3	19.9	25.0	0.8	P12273-ND◆	2.20	18.89	147.96	944.40	ECW-F6754JL
	.82	±5%	28.0	13.9	20.5	25.0	0.8	P12274-ND◆	2.25	19.32	151.32	965.85	ECW-F6824JL
	.91	±5%	28.0	14.6	21.2	25.0	0.8	P12275-ND◆	2.33	19.96	156.35	997.95	ECW-F6914JL
	1.0	±5%	28.0	15.5	22.3	25.0	0.8	P12276-ND◆	2.40	20.60	161.40	1030.20	ECW-F6105JL
	1.1	±5%	28.0	16.3	23.0	25.0	0.8	P12277-ND◆	2.48	21.25	166.45	1062.45	ECW-F6115JL
	1.2	±5%	28.0	17.0	23.7	25.0	0.8	P12278-ND◆	2.55	21.89	171.48	1094.55	ECW-F6125JL
	1.3	±5%	28.0	17.6	24.4	25.0	0.8	P12279-ND◆	2.65	22.75	178.22	1137.60	ECW-F6135JL

◆ ***RoHS Compliant***

Panasonic® High Voltage Metallized Polypropylene Film Capacitors - ECWH(V)

Designed for applications where high frequency and high pulse are required.

Features:

- Low-loss and inherent temperature rise • Excellent electrical characteristics
- Flame-retardant epoxy resin coating

Recommended Applications:

- High pulse circuits (TV, displays, electronic ballast, etc.)

Electrical Specifications:

• Temperature Range: -25°C ~ 85°C • Rated Voltage: 1250VDC or 1600VDC • Capacitance Tolerance: ±5% • Dissipation Factor: 0.1% or less at 1kHz, 0.2% or less at 10kHz • Withstand Voltage: Between terminals - Rated voltage (VDC) x 150% for 60s Terminal to Enclosure - 1500VAC for 60s • Insulation Resistance: 30,000 MΩ min., at 500VDC, 20° for 60s

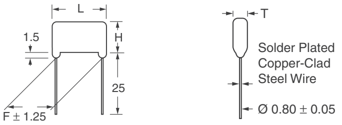

WV DC	Cap. µF	Toler-ance	Dimensions - mm				Digi-Key Part No.	Pricing					Panasonic Part No.
			L	T	H	F		1	10	100	1,000	5,000	
1250 WV	.0010	±5%	18.0	6.5	13.5	15.0	P10470-ND◆	.79	6.76	52.95	337.95	315.42/M	ECW-H12102JV
	.0012	±5%	18.0	7.0	13.5	15.0	P10471-ND◆	.79	6.76	52.95	337.95	315.42/M	ECW-H12122JV
	.0015	±5%	18.0	6.5	13.5	15.0	P10472-ND	.82	7.07	55.37	353.40	329.84/M	ECW-H12152JV
	.0018	±5%	18.0	7.0	14.0	15.0	P10473-ND◆	.82	7.07	55.37	353.40	329.84/M	ECW-H12182JV
	.0022	±5%	18.0	6.5	13.5	15.0	P10474-ND◆	.86	7.35	57.58	367.50	343.00/M	ECW-H12222JV
	.0027	±5%	18.0	7.0	14.0	15.0	P10475-ND	.89	7.60	59.55	380.10	354.76/M	ECW-H12272JV
	.0033	±5%	18.0	7.5	14.5	15.0	P10476-ND◆	.91	7.80	61.08	389.85	363.86/M	ECW-H12332JV
	.0039	±5%	18.0	6.0	12.5	15.0	P10477-ND◆	.91	7.80	61.08	389.85	363.86/M	ECW-H12392JV
	.0047	±5%	18.0	6.0	13.0	15.0	P10478-ND◆	.91	7.80	61.08	389.85	363.86/M	ECW-H12472JV
	.0056	±5%	18.0	6.5	13.5	15.0	P10479-ND◆	.95	8.11	63.52	405.45	378.42/M	ECW-H12562JV
	.0068	±5%	18.0	7.0	13.5	15.0	P10480-ND◆	1.05	9.01	70.57	450.45	420.42/M	ECW-H12682JV
	.0082	±5%	18.0	7.5	14.0	15.0	P10481-ND◆	1.10	9.43	73.86	471.45	440.02/M	ECW-H12822JV
	.010	±5%	18.0	8.0	15.0	15.0	P10482-ND◆	1.13	9.71	76.09	485.70	453.32/M	ECW-H12103JV
	.012	±5%	18.0	8.5	15.5	15.0	P10483-ND◆	1.19	10.16	79.59	508.05	474.18/M	ECW-H12123JV
	.015	±5%	18.0	9.5	16.0	15.0	P10484-ND◆	1.31	11.19	87.66	559.50	522.20/M	ECW-H12153JV
	.018	±5%	23.0	7.5	16.0	20.0	P10485-ND◆	1.45	12.47	97.69	623.55	581.98/M	ECW-H12183JV
	.022	±5%	23.0	8.5	16.5	20.0	P10486-ND◆	1.58	13.57	106.27	678.30	633.08/M	ECW-H12223JV
	.027	±5%	23.0	9.0	17.5	20.0	P10487-ND◆	1.92	16.44	128.80	822.15	767.34/M	ECW-H12273JV
	.033	±5%	23.0	10.0	18.5	20.0	P10488-ND◆	2.15	18.44	144.41	921.75	860.30/M	ECW-H12333JV
	.039	±5%	23.0	10.5	19.5	20.0	P10489-ND◆	2.18	18.68	146.36	934.20	871.92/M	ECW-H12393JV
	.047	±5%	23.0	11.5	20.5	20.0	P10490-ND◆	2.33	19.93	156.11	996.45	930.02/M	ECW-H12473JV
	.056	±5%	28.0	11.5	20.5	25.0	P10491-ND◆	2.47	21.17	165.86	1058.70	988.12/M	ECW-H12563JV
	.068	±5%	28.0	12.5	21.5	25.0	P10492-ND	2.62	22.42	175.62	1120.95	1046.22/M	ECW-H12683JV
	.082	±5%	28.0	14.0	22.5	25.0	P10493-ND	2.76	23.66	185.37	1183.20	1104.32/M	ECW-H12823JV
	.10	±5%	28.0	15.5	24.0	25.0	P10494-ND◆	2.91	24.91	195.12	1245.45	1162.42/M	ECW-H12104JV
1600 WV	.0010	±5%	18.0	6.5	13.5	15.0	P10495-ND◆	.63	5.40	42.32	270.15	252.14/M	ECW-H16102JV
	.0012	±5%	18.0	7.0	13.5	15.0	P10496-ND◆	.63	5.40	42.32	270.15	252.14/M	ECW-H16122JV
	.0015	±5%	18.0	6.5	13.5	15.0	P10497-ND◆	.63	5.40	42.32	270.15	252.14/M	ECW-H16152JV
	.0018	±5%	18.0	7.0	14.0	15.0	P10498-ND◆	.63	5.40	42.32	270.15	252.14/M	ECW-H16182JV
	.0022	±5%	18.0	6.0	12.5	15.0	P10499-ND◆	.63	5.40	42.32	270.15	252.14/M	ECW-H16222JV
	.0027	±5%	18.0	6.0	13.0	15.0	P10500-ND◆	.63	5.40	42.32	270.15	252.14/M	ECW-H16272JV
	.0033	±5%	18.0	6.5	13.5	15.0	P10501-ND◆	.63	5.40	42.32	270.15	252.14/M	ECW-H16332JV
	.0039	±5%	18.0	7.0	14.0	15.0	P10502-ND◆	.63	5.40	42.32	270.15	252.14/M	ECW-H16392JV
	.0047	±5%	23.0	6.5	14.5	20.0	P10503-ND◆	.76	6.49	50.81	324.30	302.68/M	ECW-H16472JV
	.0056	±5%	23.0	6.5	15.0	20.0	P10504-ND◆	.76	6.49	50.81	324.30	302.68/M	ECW-H16562JV
	.0068	±5%	23.0	7.0	15.5	20.0	P10505-ND◆	.76	6.49	50.81	324.30	302.68/M	ECW-H16682JV
	.0082	±5%	23.0	7.5	16.0	20.0	P10506-ND◆	.76	6.49	50.81	324.30	302.68/M	ECW-H16822JV
	.010	±5%	23.0	8.0	16.5	20.0	P10507-ND◆	.76	6.49	50.81	324.30	302.68/M	ECW-H16103JV
	.012	±5%	23.0	9.0	17.0	20.0	P10508-ND◆	1.79	15.31	119.92	765.45	714.42/M	ECW-H16123JV
	.015	±5%	23.0	9.5	18.0	20.0	P10509-ND◆	1.79	15.31	119.92	765.45	714.42/M	ECW-H16153JV
	.018	±5%	23.0	10.5	19.5	20.0	P10510-ND◆	1.79	15.31	119.92	765.45	714.42/M	ECW-H16183JV
	.022	±5%	28.0	9.5	18.0	25.0	P10511-ND◆	2.37	20.34	159.31	1016.85	949.06/M	ECW-H16223JV
	.027	±5%	28.0	10.5	19.5	25.0	P10512-ND◆	2.78	23.87	186.94	1193.25	1113.70/M	ECW-H16273JV
	.033	±5%	28.0	11.5	20.5	25.0	P10513-ND◆	2.78	23.87	186.94	1193.25	1113.70/M	ECW-H16333JV
	.039	±5%	28.0	13.5	22.0	25.0	P10514-ND◆	2.78	23.87	186.94	1193.25	1113.70/M	ECW-H16393JV
	.047	±5%	28.0	15.0	23.5	25.0	P10515-ND◆	2.78	23.87	186.94	1193.25	1113.70/M	ECW-H16473JV
	.056	±5%	28.0	16.0	24.5	25.0	P10516-ND◆	2.78	23.87	186.94	1193.25	1113.70/M	ECW-H16563JV

◆ ***RoHS Compliant***

Metallized Polypropylene Filter Capacitors

MKP 416 to 420 Series

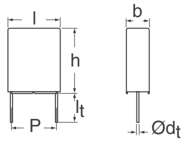

Applications: • Low losses due to low contact resistance and low loss dielectric result in applications where high frequency occurs or high stability is preferred
• Their small dimensions make them suitable for circuits with high packaging density
Specifications: • **Rated Temperature (DC):** 85°C • **Capacitance Tolerance:** ±2%

Voltage (VDC)	Capacitance (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			Vishay Part No.
		b	h	l	P	l_t	$ød_t$		1	10	100	
MKP 416 Series												
63	.036	4.5	9.0	7.2	5.0	4.0	.50	BC2065-ND	.55	.47	.32	2222 416 43603
	.039	4.5	9.0	7.2	5.0	4.0	.50	BC2066-ND◆	.55	.47	.32	2222 416 43903
	.043	4.5	9.0	7.2	5.0	4.0	.50	BC2067-ND	.55	.47	.32	2222 416 44303
	.047	4.5	9.0	7.2	5.0	4.0	.50	BC2068-ND◆	.56	.49	.33	2222 416 44703
	.051	6.0	11.0	7.2	5.0	4.0	.50	BC2069-ND◆	.56	.49	.33	2222 416 45103
	.056	6.0	11.0	7.2	5.0	4.0	.50	BC2070-ND◆	.58	.50	.34	2222 416 45603
	.062	6.0	11.0	7.2	5.0	4.0	.50	BC2071-ND	.60	.52	.35	2222 416 46203
	.068	6.0	11.0	7.2	5.0	4.0	.50	BC2072-ND◆	.61	.53	.36	2222 416 46803
	.075	6.0	11.0	7.2	5.0	4.0	.50	BC2073-ND	.61	.53	.36	2222 416 47503
	.082	6.0	11.0	7.2	5.0	4.0	.50	BC2074-ND◆	.63	.55	.37	2222 416 48203
	.091	6.0	11.0	7.2	5.0	4.0	.50	BC2075-ND	.63	.55	.37	2222 416 49103
	.10	6.0	11.0	7.2	5.0	4.0	.50	BC2054-ND◆	.63	.55	.37	2222 416 41004
	.11	6.0	11.0	7.2	5.0	4.0	.50	BC2055-ND	.66	.57	.38	2222 416 41104
	.12	6.0	11.0	7.2	5.0	4.0	.50	BC2056-ND	.68	.59	.39	2222 416 41204
	.13	5.0	11.0	12.5	10.0	4.0	.60	BC2057-ND	.68	.59	.39	2222 416 41304
	.15	5.0	11.0	12.5	10.0	4.0	.60	BC2058-ND◆	.69	.60	.40	2222 416 41504
	.16	6.0	12.0	12.5	10.0	4.0	.60	BC2059-ND	.71	.61	.41	2222 416 41604
	.18	6.0	12.0	12.5	10.0	4.0	.60	BC2060-ND	.73	.63	.42	2222 416 41804
	.20	6.0	12.0	12.5	10.0	4.0	.60	BC2061-ND◆	.74	.64	.43	2222 416 42004
	.22	6.0	12.0	12.5	10.0	4.0	.60	BC2062-ND◆	.76	.66	.44	2222 416 42204
	.24	6.0	12.0	12.5	10.0	4.0	.60	BC2063-ND	.80	.69	.46	2222 416 42404
	.27	6.0	12.0	12.5	10.0	4.0	.60	BC2064-ND◆	.82	.71	.48	2222 416 42704
	.30	6.0	12.0	17.5	15.0	3.5	.60	BC2078-ND◆	.80	.69	.46	2222 416 73004
	.33	6.0	12.0	17.5	15.0	3.5	.60	BC2079-ND◆	.82	.71	.47	2222 416 73304
	.36	6.0	12.0	17.5	15.0	3.5	.60	BC2080-ND	.86	.74	.50	2222 416 73604
	.39	6.0	12.0	17.5	15.0	3.5	.60	BC2081-ND	.90	.78	.52	2222 416 73904
	.43	7.0	13.5	17.5	15.0	3.5	.80	BC2082-ND◆	.94	.81	.54	2222 416 74304
	.47	7.0	13.5	17.5	15.0	3.5	.80	BC2083-ND◆	.97	.84	.56	2222 416 74704
	.51	7.0	13.5	17.5	15.0	3.5	.80	BC2084-ND	1.02	.88	.59	2222 416 75104
	.56	7.0	13.5	17.5	15.0	3.5	.80	BC2085-ND◆	1.04	.89	.60	2222 416 75604
	.62	8.5	15.0	17.5	15.0	3.5	.80	BC2086-ND	1.10	.95	.63	2222 416 76204
	.68	8.5	15.0	17.5	15.0	3.5	.80	BC2087-ND	1.15	.99	.66	2222 416 76804
	.75	8.5	15.0	17.5	15.0	3.5	.80	BC2088-ND	1.22	1.05	.70	2222 416 77504
	.82	8.5	15.0	17.5	15.0	3.5	.80	BC2089-ND◆	1.31	1.13	.75	2222 416 78204
	.91	10.0	16.5	17.5	15.0	3.5	.80	BC2090-ND	1.41	1.21	.81	2222 416 79104
	1.0	10.0	16.5	17.5	15.0	3.5	.80	BC2076-ND◆	1.48	1.27	.85	2222 416 71005
	1.1	10.0	16.5	17.5	15.0	3.5	.80	BC2077-ND◆	1.61	1.38	.92	2222 416 71105
MKP 417 Series												
160	.03	4.5	9.0	7.2	5.0	4.0	.50	BC2103-ND	.60	.52	.35	2222 417 43003
	.091	4.0	10.0	12.5	10.0	4.0	.60	BC2115-ND	.69	.60	.40	2222 417 49103
160	.75	8.5	15.0	17.5	15.0	3.5	.80	BC2129-ND	1.31	1.13	.76	2222 417 77504
MKP 418 Series												
250	.015	3.5	8.0	7.2	5.0	4.0	.50	BC2140-ND	.53	.46	.31	2222 418 41503
	.02	4.5	9.0	7.2	5.0	4.0	.50	BC2143-ND	.58	.50	.34	2222 418 42003
	.024	4.5	9.0	7.2	5.0	4.0	.50	BC2145-ND	.61	.53	.36	2222 418 42403
	.13	6.0	12.0	12.5	10.0	4.0	.60	BC2139-ND	.86	.74	.49	2222 418 41304
	.30	7.0	13.5	17.5	15.0	3.5	.80	BC2167-ND	.98	.85	.57	2222 418 73004
	.47	8.5	15.0	17.5	15.0	3.5	.80	BC2172-ND	1.27	1.09	.73	2222 418 74704
MKP 419 Series												
400	.0013	3.5	8.0	7.2	5.0	4.0	.50	BC2183-ND	.38	.33	.22	2222 419 41302
	.0018	3.5	8.0	7.2	5.0	4.0	.50	BC2189-ND	.43	.37	.25	2222 419 41802
	.0033	3.5	8.0	7.2	5.0	4.0	.50	BC2201-ND	.45	.39	.26	2222 419 43302
	.0039	3.5	8.0	7.2	5.0	4.0	.50	BC2205-ND	.45	.39	.26	2222 419 43902
	.0062	4.5	9.0	7.2	5.0	4.0	.50	BC2215-ND	.48	.41	.28	2222 419 46202
	.011	4.5	9.0	7.2	5.0	4.0	.50	BC2180-ND	.55	.47	.32	2222 419 41103
	.013	6.0	11.0	7.2	5.0	4.0	.50	BC2184-ND	.56	.49	.33	2222 419 41303
	.018	6.0	11.0	7.2	5.0	4.0	.50	BC2190-ND	.61	.53	.36	2222 419 41803
	.16	7.0	13.5	17.5	15.0	3.5	.80	BC2227-ND	.95	.82	.55	2222 419 71604
MKP 420 Series												
630	.0015	3.5	8.0	7.2	5.0	4.0	.50	BC2243-ND	.46	.40	.27	2222 420 41502
	.002	3.5	8.0	7.2	5.0	4.0	.50	BC2249-ND	.46	.40	.27	2222 420 42002
	.0043	6.0	11.0	7.2	5.0	4.0	.50	BC2265-ND	.48	.41	.28	2222 420 44302
	.0056	6.0	11.0	7.2	5.0	4.0	.50	BC2270-ND	.50	.43	.29	2222 420 45602
	.0062	6.0	11.0	7.2	5.0	4.0	.50	BC2271-ND	.51	.44	.30	2222 420 46202
	.0068	6.0	11.0	7.2	5.0	4.0	.50	BC2272-ND	.51	.44	.30	2222 420 46802
	.0075	6.0	11.0	7.2	5.0	4.0	.50	BC2273-ND	.53	.46	.31	2222 420 47502
	.011	4.0	10.0	12.5	10.0	4.0	.60	BC2240-ND	.61	.53	.36	2222 420 41103
	.012	4.0	10.0	12.5	10.0	4.0	.60	BC2241-ND	.63	.55	.37	2222 420 41203
	.027	6.0	12.0	12.5	10.0	4.0	.60	BC2256-ND	.74	.64	.43	2222 420 42703
	.12	8.5	15.0	17.5	15.0	3.5	.80	BC2278-ND	1.06	.92	.61	2222 420 71204

◆ ***RoHS Compliant***

AC and Pulse Double Metallized Polypropylene Film Capacitors

MMKP 383 Series

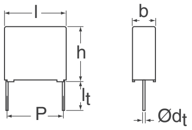

Features: • Low contact resistance • Low loss dielectric • Small dimensions for high density packaging
Applications: • Electronic lighting, for example, Ballast • Motor control circuits • S-Correction • Where steep pulses occur, for example, SMPS (switch mode power supplies) • For flyback applications please use 1400V series • For hot asphalt encapsulation process
Specifications: • **Rated Temperature (DC):** 85°C • **Rated Temperature (AC):** 105°C • **Maximum Application Temperature:** 105°C • **Capacitance Tolerance:** ±5%

Voltage	Capacitance (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			Vishay Part No.
		b	h	l	P	l_t	$ød_t$		1	10	100	
250DC/ 125AC	.15	6.0	12.0	17.5	15.0	3.5	.80	BC1820-ND	.66	.57	.38	2222 383 00154
	.16	7.0	13.5	17.5	15.0	3.5	.80	BC1822-ND	.75	.65	.44	2222 383 00164
630DC/ 220AC	.03	5.0	11.0	17.5	15.0	3.5	.80	BC1861-ND	.56	.49	.33	2222 383 20303
	.033	5.0	11.0	17.5	15.0	3.5	.80	BC1863-ND◆	.54	.47	.31	2222 383 20333
	.036	5.0	11.0	17.5	15.0	3.5	.80	BC1865-ND	.60	.52	.35	2222 383 20363
	.039	6.0	12.0	17.5	15.0	3.5	.80	BC1867-ND◆	.57	.49	.33	2222 383 20393
	.043	6.0	12.0	17.5	15.0	3.5	.80	BC1869-ND	.62	.53	.36	2222 383 20433
	.047	6.0	12.0	17.5	15.0	3.5	.80	BC1871-ND◆	.59	.51	.34	2222 383 20473
	.051	6.0	12.0	17.5	15.0	3.5	.80	BC1873-ND◆	.64	.55	.37	2222 383 20513
	.056	6.0	12.0	17.5	15.0	3.5	.80	BC1875-ND	.61	.52	.35	2222 383 20563
	.062	7.0	13.5	17.5	15.0	3.5	.80	BC1877-ND	.69	.60	.40	2222 383 20623
	.068	7.0	13.5	17.5	15.0	3.5	.80	BC1879-ND	.66	.57	.38	2222 383 20683
	.075	7.0	13.5	17.5	15.0	3.5	.80	BC1881-ND◆	.74	.64	.43	2222 383 20753
	.082	8.5	15.0	17.5	15.0	3.5	.80	BC1883-ND	.71	.61	.41	2222 383 20823
	.091	8.5	15.0	17.5	15.0	3.5	.80	BC1885-ND	.79	.68	.46	2222 383 20913
	.10	8.5	15.0	17.5	15.0	3.5	.80	BC1849-ND◆	.74	.64	.43	2222 383 20104
	.11	8.5	15.0	17.5	15.0	3.5	.80	BC1851-ND	.87	.75	.50	2222 383 20114
	.12	10.0	16.5	17.5	15.0	3.5	.80	BC1852-ND	.83	.72	.48	2222 383 20124
	.13	10.0	16.5	17.5	15.0	3.5	.80	BC1853-ND	.92	.79	.53	2222 383 20134
	.15	10.0	16.5	17.5	15.0	3.5	.80	BC1854-ND◆	.88	.76	.51	2222 383 20154
	.16	8.5	18.0	26.0	22.5	3.5	.80	BC1855-ND	1.07	.92	.61	2222 383 20164
	.18	8.5	18.0	26.0	22.5	3.5	.80	BC1856-ND◆	1.01	.87	.58	2222 383 20184
	.20	8.5	18.0	26.0	22.5	3.5	.80	BC1857-ND◆	1.14	.98	.66	2222 383 20204
	.22	8.5	18.0	26.0	22.5	3.5	.80	BC1858-ND◆	1.09	.93	.63	2222 383 20224
	.24	10.0	19.5	26.0	22.5	3.5	.80	BC1859-ND	1.24	1.07	.71	2222 383 20244
	.27	10.0	19.5	26.0	22.5	3.5	.80	BC1860-ND	1.19	1.02	.68	2222 383 20274
	.30	10.0	19.5	26.0	22.5	3.5	.80	BC1862-ND◆	1.71	1.47	.98	2222 383 20304
	.33	11.0	21.0	31.0	27.5	3.5	.80	BC1864-ND◆	1.61	1.39	.93	2222 383 20334
	.36	11.0	21.0	31.0	27.5	3.5	.80	BC1866-ND	1.81	1.56	1.04	2222 383 20364
	.39	11.0	21.0	31.0	27.5	3.5	.80	BC1868- ND◆	1.72	1.48	.99	2222 383 20394
630DC/ 220AC	.43	11.0	21.0	31.0	27.5	3.5	.80	BC1870-ND	2.02	1.74	1.16	2222 383 20434
	.47	13.0	23.0	31.0	27.5	3.5	.80	BC1872-ND◆	1.92	1.65	1.10	2222 383 20474
	.51	13.0	23.0	31.0	27.5	3.5	.80	BC1874-ND◆	2.18	1.87	1.25	2222 383 20514
	.56	13.0	23.0	31.0	27.5	3.5	.80	BC1876-ND◆	2.08	1.79	1.19	2222 383 20564
	.62	15.0	25.0	31.0	27.5	3.5	.80	BC1878-ND◆	2.45	2.10	1.40	2222 383 20624
	.68	15.0	25.0	31.0	27.5	3.5	.80	BC1880-ND◆	2.34	2.01	1.34	2222 383 20684
	.75	15.0	25.0	31.0	27.5	3.5	.80	BC1882-ND◆	2.91	2.50	1.67	2222 383 20754
	.82	18.0	28.0	31.0	27.5	3.5	.80	BC1884-ND◆	2.77	2.38	1.59	2222 383 20824
	.91	18.0	28.0	31.0	27.5	3.5	.80	BC1886-ND	3.25	2.79	1.86	2222 383 20914
	1.0	18.0	28.0	31.0	27.5	3.5	.80	BC1850-ND◆	3.10	2.66	1.77	2222 383 20105
1000DC/ 350AC	.012	5.0	11.0	17.5	15.0	3.5	.80	BC1889-ND	.66	.57	.38	2222 383 30123
	.013	5.0	11.0	17.5	15.0	3.5	.80	BC1891-ND	.72	.62	.41	2222 383 30133
	.015	5.0	11.0	17.5	15.0	3.5	.80	BC1893-ND	.69	.59	.40	2222 383 30153
	.016	5.0	11.0	17.5	15.0	3.5	.80	BC1895-ND	.75	.65	.44	2222 383 30163
	.018	6.0	12.0	17.5	15.0	3.5	.80	BC1897-ND	.72	.62	.41	2222 383 30183
	.02	6.0	12.0	17.5	15.0	3.5	.80	BC1899-ND	.80	.69	.46	2222 383 30203
	.022	6.0	12.0	17.5	15.0	3.5	.80	BC1901-ND	.76	.66	.44	2222 383 30223
	.024	6.0	12.0	17.5	15.0	3.5	.80	BC1903-ND	.86	.74	.49	2222 383 30243
	.027	7.0	13.5	17.5	15.0	3.5	.80	BC1905-ND	.81	.70	.47	2222 383 3027
	.018	6.0	12.0	17.5	15.0	3.5	.80	BC1897-ND	.72	.62	.41	2222 383 30183
	.02	6.0	12.0	17.5	15.0	3.5	.80	BC1899-ND	.80	.69	.46	2222 383 30203
	.022	6.0	12.0	17.5	15.0	3.5	.80	BC1901-ND	.76	.66	.44	2222 383 30223
	.024	6.0	12.0	17.5	15.0	3.5	.80	BC1903-ND	.86	.74	.49	2222 383 30243
	.027	7.0	13.5	17.5	15.0	3.5	.80	BC1905-ND	.81	.70	.47	2222 383 30273
	.03	7.0	13.5	17.5	15.0	3.5	.80	BC1907-ND	.92	.79	.53	2222 383 30303
	.033	7.0	13.5	17.5	15.0	3.5	.80	BC1909-ND◆	.88	.76	.51	2222 383 30333
	.036	8.5	15.0	17.5	15.0	3.5	.80	BC1911-ND	.96	.83	.56	2222 383 30363
	.039	8.5	15.0	17.5	15.0	3.5	.80	BC1913-ND◆	.92	.79	.53	2222 383 30393
	.043	8.5	15.0	17.5	15.0	3.5	.80	BC1915-ND	1.04	.90	.60	2222 383 30433

◆ ***RoHS Compliant***

(Continued)

AC and Pulse Double Metallized Polypropylene Film Capacitors

MMKP 383 Series *(Cont.)*

Voltage	Capacitance (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			Vishay Part No.
		b	h	l	P	l_t	ød_t		1	10	100	
1000DC/ 350AC	.047	8.5	15.0	17.5	15.0	3.5	.80	BC1917-ND◆	1.00	.86	.57	2222 383 30473
	.051	10.0	16.5	17.5	15.0	3.5	.80	BC1919-ND	1.11	.96	.64	2222 383 30513
	.056	10.0	16.5	17.5	15.0	3.5	.80	BC1920-ND◆	1.05	.90	.60	2222 383 30563
	.062	10.0	16.5	17.5	15.0	3.5	.80	BC1921-ND	1.22	1.05	.70	2222 383 30623
	.068	7.0	16.5	26.0	22.5	3.5	.80	BC1922-ND	1.16	1.00	.67	2222 383 30683
	.075	8.5	18.0	26.0	22.5	3.5	.80	BC1923-ND	1.35	1.16	.78	2222 383 30753
	.082	8.5	18.0	26.0	22.5	3.5	.80	BC1924-ND	1.29	1.11	.74	2222 383 30823
	.091	8.5	18.0	26.0	22.5	3.5	.80	BC1925-ND	1.52	1.31	.88	2222 383 30913
	.10	10.0	19.5	26.0	22.5	3.5	.80	BC1887-ND◆	1.45	1.25	.83	2222 383 30104
	.11	10.0	19.5	26.0	22.5	3.5	.80	BC1888-ND	1.83	1.57	1.05	2222 383 30114
	.12	10.0	19.5	26.0	22.5	3.5	.80	BC1890-ND	1.73	1.49	1.00	2222 383 30124
	.13	10.0	19.5	26.0	22.5	3.5	.80	BC1892-ND	2.06	1.77	1.18	2222 383 30134
	.15	11.0	21.0	31.0	27.5	3.5	.80	BC1894-ND◆	1.97	1.69	1.13	2222 383 30154
	.16	11.0	21.0	31.0	27.5	3.5	.80	BC1896-ND	2.28	1.96	1.31	2222 383 30164
	.18	11.0	21.0	31.0	27.5	3.5	.80	BC1898-ND◆	2.20	1.89	1.26	2222 383 30184
	.20	13.0	23.0	31.0	27.5	3.5	.80	BC1900-ND◆	2.51	2.16	1.44	2222 383 30204
	.22	13.0	23.0	31.0	27.5	3.5	.80	BC1902-ND	2.42	2.08	1.39	2222 383 30224
	.24	13.0	23.0	31.0	27.5	3.5	.80	BC1904-ND◆	2.80	2.41	1.61	2222 383 30244
	.27	15.0	25.0	31.0	27.5	3.5	.80	BC1906-ND◆	2.68	2.30	1.53	2222 383 30274
	.30	15.0	25.0	31.0	27.5	3.5	.80	BC1908-ND	3.18	2.73	1.82	2222 383 30304
	.33	15.0	25.0	31.0	27.5	3.5	.80	BC1910-ND◆	3.03	2.61	1.74	2222 383 30334
	.36	18.0	28.0	31.0	27.5	3.5	.80	BC1912-ND◆	3.45	2.96	1.98	2222 383 30364
	.39	18.0	28.0	31.0	27.5	3.5	.80	BC1914-ND	3.29	2.82	1.88	2222 383 30394
	.43	18.0	28.0	31.0	27.5	3.5	.80	BC1916-ND	3.83	3.29	2.20	2222 383 30434
	.47	18.0	28.0	31.0	27.5	3.5	.80	BC1918-ND◆	3.64	3.13	2.09	2222 383 30474
1400DC/ 500AC	.0024	5.0	11.0	17.5	15.0	3.5	.80	BC1940-ND	.52	.45	.30	2222 383 40242
	.0036	5.0	11.0	17.5	15.0	3.5	.80	BC1948-ND	.56	.49	.33	2222 383 40362
	.0082	7.0	13.5	17.5	15.0	3.5	.80	BC1966-ND	.66	.57	.38	2222 383 40822
1600DC/ 550AC	0033	5.0	11.0	17.5	15.0	3.5	.80	BC1987-ND◆	.55	.48	.32	2222 383 50332
	.0036	5.0	11.0	17.5	15.0	3.5	.80	BC1989-ND	.60	.52	.35	2222 383 50362
	.0039	5.0	11.0	17.5	15.0	3.5	.80	BC1991-ND	.57	.49	.33	2222 383 50392
	.0043	6.0	12.0	17.5	15.0	3.5	.80	BC1993-ND◆	.62	.54	.36	2222 383 50432
	.0047	6.0	12.0	17.5	15.0	3.5	.80	BC1995-ND◆	.60	.52	.35	2222 383 50472
	.0051	6.0	12.0	17.5	15.0	3.5	.80	BC1997-ND	.66	.57	.38	2222 383 50512
	.0056	6.0	12.0	17.5	15.0	3.5	.80	BC1999-ND◆	.62	.54	.36	2222 383 50562
	.0062	7.0	13.5	17.5	15a.0	3.5	.80	BC2001-ND	.69	.59	.40	2222 383 50622

Voltage	Capacitance (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			Vishay Part No.
		b	h	l	P	l_t	ød_t		1	10	100	
1600DC/ 550AC	.0068	7.0	13.5	17.5	15.0	3.5	.80	BC2003-ND◆	.66	.57	.38	2222 383 50682
	.0075	7.0	13.5	17.5	15.0	3.5	.80	BC2005-ND	.74	.63	.43	2222 383 50752
	.0082	8.5	15.0	17.5	15.0	3.5	.80	BC2007-ND◆	.69	.60	.40	2222 383 50822
	.0091	8.5	15.0	17.5	15.0	3.5	.80	BC2009-ND	.76	.66	.44	2222 383 50912
	.01	8.5	15.0	17.5	15.0	3.5	.80	BC1970-ND◆	.74	.63	.43	2222 383 50103
	.011	8.5	15.0	17.5	15.0	3.5	.80	BC1972-ND◆	.83	.72	.48	2222 383 50113
	.015	10.0	16.5	17.5	15.0	3.5	.80	BC1978-ND◆	.86	.74	.49	2222 383 50153
	.016	7.0	16.5	26.0	22.5	3.5	.80	BC1980-ND	1.00	.86	.58	2222 383 50163
	.018	7.0	16.5	26.0	22.5	3.5	.80	BC1981-ND◆	.95	.82	.55	2222 383 50183
	.02	7.0	16.5	26.0	22.5	3.5	.80	BC1982-ND	1.08	.93	.62	2222 383 50203
	.022	8.5	18.0	26.0	22.5	3.5	.80	BC1983-ND◆	1.02	.88	.59	2222 383 50223
	.024	8.5	18.0	26.0	22.5	3.5	.80	BC1984-ND◆	1.16	1.00	.67	2222 383 50243
	.027	8.5	18.0	26.0	22.5	3.5	.80	BC1985-ND	1.11	.96	.64	2222 383 50273
	.03	8.5	18.0	26.0	22.5	3.5	.80	BC1986-ND	1.30	1.12	.75	2222 383 50303
	.033	10.0	19.5	26.0	22.5	3.5	.80	BC1988-ND◆	1.23	1.06	.71	2222 383 50333
	.036	10.0	19.5	26.0	22.5	3.5	.80	BC1990-ND	1.45	1.25	.83	2222 383 50363
	.036	10.0	19.5	26.0	22.5	3.5	.80	BC1990-ND	1.45	1.25	.83	2222 383 50363
	.036	10.0	19.5	26.0	22.5	3.5	.80	BC1990-ND	1.45	1.25	.83	2222 383 50363
	.039	10.0	19.5	26.0	22.5	3.5	.80	BC1992-ND	1.38	1.19	.79	2222 383 50393
	.043	11.0	21.0	31.0	27.5	3.5	.80	BC1994-ND	1.86	1.60	1.07	2222 383 50433
	.047	11.0	21.0	31.0	27.5	3.5	.80	BC1996-ND◆	1.78	1.53	1.02	2222 383 50473
	.051	11.0	21.0	31.0	27.5	3.5	.80	BC1998-ND◆	2.00	1.72	1.15	2222 383 50513
	.056	11.0	21.0	31.0	27.5	3.5	.80	BC2000-ND◆	1.90	1.63	1.09	2222 383 50563
	.062	13.0	23.0	31.0	27.5	3.5	.80	BC2002-ND	2.22	1.91	1.27	2222 383 50623
	.068	13.0	23.0	31.0	27.5	3.5	.80	BC2004-ND◆	2.12	1.83	1.22	2222 383 50683
	.075	13.0	23.0	31.0	27.5	3.5	.80	BC2006-ND	2.58	2.22	1.48	2222 383 50753
	.082	15.0	25.0	31.0	27.5	3.5	.80	BC2008-ND	2.45	2.10	1.40	2222 383 50823
	.091	15.0	25.0	31.0	27.5	3.5	.80	BC2010-ND	2.74	2.35	1.57	2222 383 50913
	.10	15.0	25.0	31.0	27.5	3.5	.80	BC1971-ND◆	2.61	2.24	1.50	2222 383 50104
	.11	18.0	28.0	31.0	27.5	3.5	.80	BC1973-ND	3.19	2.74	1.83	2222 383 50114
	.12	18.0	28.0	31.0	27.5	3.5	.80	BC1975-ND	3.06	2.63	1.75	2222 383 50124
	.13	18.0	28.0	31.0	27.5	3.5	.80	BC1977-ND	3.58	3.07	2.05	2222 383 50134
	.15	18.0	28.0	31.0	27.5	3.5	.80	BC1979-ND◆	3.42	2.93	1.96	2222 383 50154
2500DC/ 900AC	.0015	6.0	15.5	26.0	22.5	3.5	.80	BC2019-ND	.84	.72	.48	2222 383 70152
	.003	6.0	15.5	26.0	22.5	3.5	.80	BC2033-ND	.90	.78	.52	2222 383 70302
	.036	15.0	25.0	31.0	27.5	3.5	.80	BC2038-ND◆	2.48	2.13	1.42	2222 383 70363

◆ ***RoHS Compliant***

Interference Suppression Film Capacitors

MKP 338 X1 and MKP 338 X2

Feature:
- Consists of a low-inductive wound cell of metallized polypropylene film, potted in a flame-retardant case

X1 Applications:
- For X1 electromagnetic interference suppression • Specially designed to meet the requirements of the "IEC 60384-14 2nd edition and EN 132400", requiring a 4kV peak pulse voltage test UL1414 and CSA-C22.2 No. 1 specifications

X2 Applications:
- For X2 electromagnetic interference suppression • Specially designed to meet the requirements of the "IEC 60384-14 2nd edition and EN 132400", requiring for X2 a 2.5kV peak pulse voltage test and both UL1414 and CSA-C22.2 No. 1 specifications

X1 Specifications:
Rated (AC) Voltage, 50 to 60Hz: 440V **Rated (DC) Voltage:** 1000V **Rated Temperature:** 105°C **C-Tol:** ±20% **Safety Class:** X1; across the line

X2 Specifications:
Rated (AC) Voltage, 50 to 60Hz: 275V **Rated (DC) Voltage:** 630V **Rated Temperature:** 105°C **C-Tol:** ±20% **Safety Class:** X2 across the line

Safety Approvals (X1)		Voltage	Value	File Numbers
	UL1414	250V (AC)	10nF to 1µF	E112471
c US	UL1283 and CSA 22.2.8	440V (AC)	10nF to 1µF	Pending
EN EC 02	EN132400	440V (AC)	10nF to 1µF	ENEC/B04/2001

Safety Approvals (X2)		Voltage	Value	File Numbers
	UL1414	250V (AC)	1nF to 1µF	E112471
	UL1283	305V (AC)	1nF to 3.3µF	E109565
	CSA-C22.2 No. 1	250V (AC)	1nF to 1µF	1087424 (LR94054-15)
	CSA-C22.2 No. 8	275V (AC)	1nF to 3.3µF	1078568
	CCEE	275V (AC)	1nF to 3.3µF	CH0038043-99
EN EC 02	EN132400	275V (AC)	1nF to 3.3µF	ENEC/B05/2001

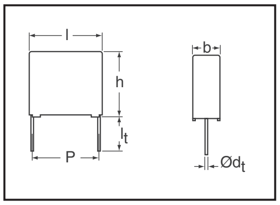

Voltage	Cap. (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			Vishay Part No.
		b	h	l	P	l_t	ød_t		1	10	100	
MKP 338 X1 Series (±20% Tolerance)												
440 (AC)	.01	5.0	11.0	17.5	15.0	3.5	.60	BC1574-ND◆	.77	.67	.45	2222 338 10103
	.01	5.0	11.0	17.5	15.0	25.0	.60	BC1587-ND◆	.77	.67	.45	2222 338 14103
	.015	5.0	11.0	17.5	15.0	3.5	.60	BC1577-ND◆	.79	.68	.45	2222 338 10153
	.015	5.0	11.0	17.5	15.0	25.0	.60	BC1590-ND◆	.79	.68	.45	2222 338 14153
	.022	5.0	11.0	17.5	15.0	3.5	.60	BC1579-ND◆	.79	.68	.46	2222 338 10223
	.022	5.0	11.0	17.5	15.0	25.0	.60	BC1592-ND◆	.79	.68	.46	2222 338 14223
	.033	6.0	12.0	17.5	15.0	3.5	.60	BC1581-ND	.68	.59	.39	2222 338 10333
	.033	6.0	12.0	17.5	15.0	25.0	.60	BC1594-ND◆	.68	.59	.39	2222 338 14333
	.047	7.0	13.5	17.5	15.0	3.5	.80	BC1583-ND◆	.69	.60	.40	2222 338 10473
	.047	7.0	13.5	17.5	15.0	25.0	.80	BC1596-ND◆	.69	.60	.40	2222 338 14473
	.068	8.5	15.0	17.5	15.0	3.5	.80	BC1585-ND◆	.72	.62	.41	2222 338 10683
	.068	8.5	15.0	17.5	15.0	25.0	.80	BC1598-ND◆	.72	.62	.41	2222 338 14683
	.10	10.0	16.5	17.5	15.0	3.5	.80	BC1575-ND	.77	.66	.44	2222 338 10104
	.10	10.0	16.5	17.5	15.0	25.0	.80	BC1588-ND◆	.77	.66	.44	2222 338 14104
	.15	8.5	18.0	26.0	22.5	3.5	.80	BC1578-ND◆	.91	.78	.53	2222 338 10154
	.15	8.5	18.0	26.0	22.5	25.0	.80	BC1591-ND◆	.91	.78	.53	2222 338 14154
	.22	10.0	19.5	26.0	22.5	3.5	.80	BC1580-ND◆	1.10	.94	.63	2222 338 10224
	.22	10.0	19.5	26.0	22.5	25.0	.80	BC1593-ND◆	1.10	.94	.63	2222 338 14224
	.33	13.0	23.0	31.0	27.5	3.5	.80	BC1582-ND◆	1.24	1.06	.71	2222 338 10334
	.33	13.0	23.0	31.0	27.5	25.0	.80	BC1595-ND◆	1.24	1.06	.71	2222 338 14334
	.47	15.0	25.0	31.0	27.5	3.5	.80	BC1584-ND◆	.78	.67	.45	2222 338 10474
	.47	15.0	25.0	31.0	27.5	25.0	.80	BC1597-ND◆	.78	.67	.45	2222 338 14474
	.68	18.0	28.0	31.0	27.5	3.5	.80	BC1586-ND◆	2.60	2.24	1.49	2222 338 10684
	1.0	21.0	31.0	31.0	27.5	3.5	.80	BC1576-ND◆	3.27	2.80	1.87	2222 338 10105
	1.0	21.0	31.0	31.0	27.5	25.0	.80	BC1589-ND◆	3.27	2.80	1.87	2222 338 14105

Voltage	Cap. (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			Vishay Part No.
		b	h	l	P	l_t	ød_t		1	10	100	
MKP 338 X2 Series (±20% Tolerance)												
275 (AC)	.001	4.0	9.0	10.0	7.5	3.5	.50	BC1599-ND◆	.35	.31	.21	2222 338 20102
	.0015	4.0	9.0	10.0	7.5	3.5	.50	BC1603-ND	.35	.31	.21	2222 338 20152
	.0022	4.0	9.0	10.0	7.5	3.5	.50	BC1607-ND◆	.38	.33	.22	2222 338 20222
	.0033	4.0	9.0	10.0	7.5	3.5	.50	BC1611-ND◆	.41	.36	.24	2222 338 20332
	.0047	4.0	9.0	10.0	7.5	3.5	.50	BC1615-ND◆	.42	.37	.25	2222 338 20472
	.0068	4.0	9.0	10.0	7.5	3.5	.50	BC1618-ND◆	.45	.39	.26	2222 338 20682
	.01	4.0	9.0	10.0	7.5	3.5	.50	BC1600-ND◆	.47	.41	.28	2222 338 20103
	.015	4.0	9.0	10.0	7.5	3.5	.50	BC1604-ND◆	.48	.42	.28	2222 338 20153
	.022	4.0	9.0	10.0	7.5	3.5	.50	BC1608-ND◆	.49	.42	.28	2222 338 20223
	.033	5.0	10.5	10.0	7.5	3.5	.50	BC1612-ND◆	.42	.36	.24	2222 338 20333
	.047	6.0	11.5	10.0	7.5	3.5	.50	BC1616-ND◆	.42	.37	.25	2222 338 20473
	.068	6.0	12.0	12.5	10.0	3.5	.60	BC1619-ND◆	.44	.38	.26	2222 338 20683
	.10	6.0	12.0	12.5	10.0	3.5	.60	BC1601-ND◆	.47	.41	.27	2222 338 20104
	.15	7.0	13.5	17.5	15.0	3.5	.80	BC1605-ND◆	.50	.43	.29	2222 338 20154
	.22	8.5	15.0	17.5	15.0	3.5	.80	BC1609-ND◆	.63	.55	.37	2222 338 20224
	.33	10.0	16.5	17.5	15.0	3.5	.80	BC1613-ND◆	.72	.62	.41	2222 338 20334
	.47	8.5	18.0	26.0	22.5	3.5	.80	BC1617-ND◆	1.13	.97	.65	2222 338 20474
	.68	10.0	19.5	26.0	22.5	3.5	.80	BC1620-ND	1.52	1.31	.87	2222 338 20684
	1.0	12.0	22.0	26.0	22.5	3.5	.80	BC1602-ND◆	1.90	1.63	1.09	2222 338 20105
	1.5	15.0	25.0	31.0	27.5	3.5	.80	BC1606-ND◆	2.51	2.15	1.44	2222 338 20155
	2.2	18.0	28.0	31.0	27.5	3.5	.80	BC1610-ND◆	3.05	2.61	1.75	2222 338 20225
	3.3	21.0	31.0	31.0	27.5	3.5	.80	BC1614-ND◆	4.50	3.86	2.58	2222 338 20335

◆ ***RoHS Compliant***

CDE CORNELL DUBILIER

Axial Leaded Power Film Capacitors

Type 940C round, axial film capacitors use polypropylene film and dual metallized electrodes for both self healing properties and high peak current carrying capability (dV/dt). This series features low ESR characteristics, excellent high frequency and high voltage capabilities.

Specifications: • Capacitance Tolerance: ±10% • Operating Temperature Range: -55°C ~ 105°C

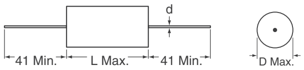

Rated Volt. (DC)	Cap. (µF)	Dimensions (mm) D	L	d	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
600	0.33	13.5	34	1.0	338-1137-ND	2.99	2.57	2.14	940C6P33K-F
	1.0	21	34	1.0	338-1138-ND	5.02	4.30	3.59	940C6W1K-F
	2.0	23.5	46	1.2	338-1140-ND	7.39	6.34	5.28	940C6W2K-F
	3.3	27	54	1.2	338-1141-ND	10.47	8.97	7.48	940C6W3P3K-F
	4.7	31.5	54	1.2	338-1142-ND	14.21	12.18	10.15	940C6W4P7K-F
850	0.15	13	34	1.0	338-1143-ND	3.17	2.73	2.27	940C8P15K-F
	0.47	21	34	1.0	338-1144-ND	5.92	5.08	4.23	940C8P47K-F
	1.0	22.5	46	1.2	338-1146-ND	8.81	7.56	6.30	940C8W1K-F
	2.0	30.5	46	1.2	338-1148-ND	14.96	12.83	10.69	940C8W2K-F
	2.2	32	46	1.2	338-1149-ND	16.53	14.17	11.81	940C8W2P2K-F
	2.5	34	46	1.2	338-1150-ND	18.32	15.71	13.09	940C8W2P5K-F
1000	0.22	17.5	34	1.0	338-1151-ND	4.03	3.46	2.88	940C10P22K-F
	0.33	20.5	34	1.0	338-1152-ND	5.26	4.51	3.76	940C10P33K-F
	0.47	24	34	1.2	338-1153-ND	6.77	5.81	4.84	940C10P47K-F
	1.0	26	46	1.2	338-1155-ND	9.80	8.41	7.01	940C10W1K-F
	1.5	31	46	1.2	338-1156-ND	13.59	11.65	9.71	940C10W1P5K-F
	2.0	35.5	46	1.2	338-1157-ND	17.19	14.74	12.28	940C10W2K-F
1200	0.10	15.5	34	1.0	338-1158-ND	3.32	2.85	2.37	940C12P1K-F
	0.22	21.5	34	1.0	338-1160-ND	5.07	4.35	3.62	940C12P22K-F
	0.33	20	46	1.0	338-1161-ND	5.64	4.84	4.03	940C12P33K-F
	0.47	23	46	1.2	338-1162-ND	7.29	6.25	5.21	940C12P47K-F
	1.0	33	46	1.2	338-1163-ND	12.83	11.01	9.17	940C12W1K-F
	1.5	35	54	1.2	338-1164-ND	16.86	14.45	12.04	940C12W1P5K-F
1600	0.10	18	34	1.0	338-1165-ND	4.07	3.49	2.91	940C16P1K-F
	0.15	21.5	34	1.0	338-1166-ND	4.92	4.23	3.52	940C16P15K-F
	0.22	25.5	34	1.2	338-1167-ND	6.35	5.44	4.54	940C16P22K-F
	0.33	23.5	46	1.2	338-1168-ND	7.15	6.13	5.11	940C16P33K-F
	0.47	27.5	46	1.2	338-1169-ND	9.09	7.80	6.50	940C16P47K-F
	1.5	42	54	1.2	338-1171-ND	21.92	18.80	15.66	940C12W1P5K-F
2000	0.033	13.5	34	1.0	338-1172-ND	2.80	2.40	2.00	940C20S33K-F
	0.047	15	34	1.0	338-1173-ND	3.13	2.68	2.24	940C20S47K-F
	0.068	17.5	34	1.0	338-1174-ND	3.55	3.05	2.54	940C20S68K-F
	0.10	21	34	1.0	338-1175-ND	4.50	3.86	3.22	940C20P1K-F
	0.15	19.5	46	1.0	338-1176-ND	4.98	4.27	3.56	940C20P15K-F
	0.22	22	46	1.0	338-1177-ND	6.16	5.28	4.40	940C20P22K-F
	0.33	27	46	1.2	338-1178-ND	8.33	7.14	5.95	940C20P33K-F
	0.47	32	46	1.2	338-1179-ND	11.03	9.46	7.88	940C20P47K-F
	1.0	41	54	1.2	338-1182-ND	19.09	16.36	13.64	940C20W1K-F
3000	0.01	11.5	34	1.0	338-1183-ND	2.51	2.16	1.80	940C30S1K-F
	0.015	13.5	34	1.0	338-1184-ND	2.70	2.32	1.93	940C30S15K-F
	0.047	16.5	46	1.0	338-1185-ND	3.65	3.13	2.61	940C30S47K-F
	0.068	19	46	1.0	338-1186-ND	4.60	3.95	3.29	940C30S68K-F
	0.10	22.5	46	1.2	338-1187-ND	5.68	4.87	4.06	940C30P1K-F
	0.15	27	46	1.2	338-1188-ND	7.34	6.30	5.25	940C30P15K-F

ElectroFilm Metallized Polypropylene Capacitors

Specifically designed for DC high ripple current applications. Constructed with low-loss ElectroFilm construction, the UNL series offers high ripple current capabilities and high capacitance values making them ideal for aluminum electrolytic replacement or applications requiring high ripple current capacitors.

Features: • Exceptionally low ESR • Up tp 10 times the ripple current • 1.25 times rated surge voltage • Non-polar • Higher voltage ratings • Dry construction - no electrolyte • Improved reliability

Applications: • High voltage inverters • DC bus link • DC filtering

Specifications: • Capacitance Tolerance: ±10% • Operating Temperature Range: -55°C ~ 85°C • Insulation Resistance: ≥ 10,000MΩ

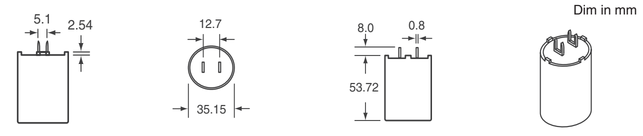

Rated Voltage (DC)	Capacitance (µF)	ESR @ 100kHz (MΩ)	Peak Current (A)	SRF (kHz)	Ripple Current @ 100kHz and 25°C	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
400	30	6.0	900	155	24.2	338-1368-ND	28.12	24.10	20.09	UNL4W30K-F
500	35	8.0	910	144	22.0	338-1369-ND	55.49	47.57	39.64	UNL5W35K-F
600	30	9.0	900	155	20.7	338-1370-ND	28.59	24.51	20.43	UNL6W30K-F
750	20	10.0	740	190	19.0	338-1371-ND	45.20	38.75	32.29	UNL7W20K-F
800	15	10.0	630	219	18.8	338-1372-ND	32.53	27.88	23.24	UNL8W15K-F
900	13.5	10.5	580	231	18.0	338-1373-ND	29.73	25.49	21.24	UNL9W13P5K-F
1000	10	12.0	500	269	17.5	338-1374-ND	29.95	25.68	21.40	UNL10W10K-F
1200	7.5	13.5	450	310	16.0	338-1375-ND	35.02	30.03	25.02	UNL12W7P5K-F
1500	4.7	15.0	338	392	15.0	338-1376-ND	26.17	22.43	18.69	UNL15W4P7K-F

AVX Film Chip Capacitors PEN Dielectric – CB Series

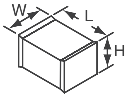

Size Code	Dimensions in mm L	W
1206	3.3	1.6
1812	4.5	3.2
2220	5.8	5.0
2824	7.2	6.1

Features: The CB Series film chip capacitors use a naked and stacked construction with metallized PEN (polyethylene naphtalate). The use of high temperature dielectric films make these capacitors suitable for IR or vapor phase reflow processes. The intrinsic elasticity of the dielectric film allows an excellent compatibility of the capacitor with all types of material for printed circuit boards. The self-healing property of film technology results in a safe open failure mode and better overall reliability. • Excellent thermal shock resistance • Low dissipation factor ESR and ESL • No piezoelectric effect • Non-polar construction

Applications: • General purpose function in low voltage applications where miniaturization and SMD is required

Specifications: • Climatic Category – 55/125/56 • Operating Temperature Range: -55°C ~ 125°C with voltage derating of 1.25%/°C between 105°C and 125°C

Size Code	WV DC	Capacitance	Dim. H Max (mm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
1206	50	10000pF	1.15	478-4533-1-ND	.70	4.65	38.78	478-4533-2-ND	3,900	233.00/M	CB017D0103JBA
1812	100	47000pF	2.6	478-4534-1-ND	.98	6.55	54.60	478-4534-2-ND	700	229.60	CB037E0473JBA
	100	0.10µF	3.0	478-4535-1-ND	.80	5.32	44.33	478-4535-2-ND	700	186.20	CB037E0104JBA
2220	63	.33µF	3.3	478-4536-1-ND	.99	6.57	54.73	478-4536-2-ND	2,800	328.00/M	CB042D0334JBC
	63	.47µF	3.5	478-4537-1-ND	1.18	7.84	65.35	478-4537-2-ND	2,300	392.00/M	CB042D0474JBC
	63	.68µF	4.0	478-4538-1-ND	1.42	9.46	78.80	478-4538-2-ND	2,300	473.00/M	CB042D0684JBC
2824	100	1.0µF	5.7	478-4539-1-ND	1.80	12.00	100.00	478-4539-2-ND	900	540.00	CB052E0105JBC

AVX TPC Polyester Film Capacitors

Description: • Dielectric: Metallized polyester film (polyethylene teraphtalate) • Stacked-film • Leads: Radial tin-plated wire • Protection: Plastic case (UL 94V-0) / Epoxy resin • Marking: Logo, Nominal Capacitance, Tolerance (EIA), DC Nominal Voltage

Features: • Non-inductive, self-healing, metallized polyester film capacitor • Insulated thermoplastic casing, epoxy resin sealed with stand-offs, flame retardant resin and case according to UL 94V-0 • Radial connections with a lead spacing of 5.08mm

Applications: • Supply decoupling, filter, integrators, treatment of analog signals, rejection of line perturbations

Standardization: • Generic Specifications: CEI 384-1/CECC 30000/UTE 83100 • Sectional Specifications: CEI 384-2-CECC 30400/UTE 83151 • Complies with Special Specifications: CECC 30401-063 • On the LNZ list: Complies with type CPM-N; RAQ2 production, equivalent AQAP-4 of NATO

Dim. (mm)

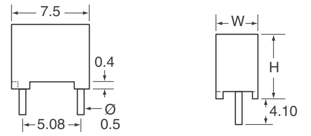

Volt. (DC)	Dim. (mm) H	Dim. (mm) W	Capac-itance	Toler-ance	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	AVX Part No.
63	6.5	2.5	1,000pF	±5%	478-3385-ND	.10	.74	5.30	BQ014D0102J
			1,000pF	±10%	478-3425-ND	.09	.70	4.98	BQ014D0102K
			1,500pF	±5%	478-3376-ND	.10	.75	5.38	BQ014D0152J
			1,800pF	±5%	478-3431-ND	.10	.77	5.48	BQ014D0182J
			2,200pF	±5%	478-3409-ND	.10	.77	5.48	BQ014D0222J
			2,200pF	±10%	478-3429-ND	.10	.72	5.15	BQ014D0222K
			3,300pF	±10%	478-3423-ND	.10	.72	5.18	BQ014D0332K
			3,900pF	±5%	478-3399-ND	.10	.76	5.45	BQ014D0392J
			4,700pF	±5%	478-3432-ND	.11	.78	5.55	BQ014D0472J
			4,700pF	±10%	478-3416-ND	.10	.73	5.23	BQ014D0472K
			8,200pF	±5%	478-3434-ND	.11	.83	5.93	BQ014D0822J
			10,000pF	±5%	478-3373-ND	.12	.85	6.10	BQ014D0103J
			10,000pF	±10%	478-3413-ND	.11	.80	5.73	BQ014D0103K
			15,000pF	±5%	478-3414-ND	.10	.72	5.18	BQ014D0153J
			15,000pF	±10%	478-3421-ND	.09	.68	4.85	BQ014D0153K
			22,000pF	±5%	478-3407-ND	.10	.74	5.28	BQ014D0223J
			22,000pF	±10%	478-3397-ND	.09	.69	4.95	BQ014D0223K
			27,000pF	±10%	478-3411-ND	.10	.72	5.13	BQ014D0273K
			33,000pF	±5%	478-3387-ND	.11	.83	5.90	BQ014D0333J
			33,000pF	±10%	478-3391-ND	.11	.78	5.55	BQ014D0333K
			39,000pF	±5%	478-3419-ND	.10	.77	5.53	BQ014D0393J
			47,000pF	±5%	478-3381-ND	.11	.79	5.63	BQ014D0473J
			47,000pF	±10%	478-3392-ND	.10	.74	5.28	BQ014D0473K
			56,000pF	±5%	478-3439-ND	.11	.79	5.65	BQ014D0563J
			56,000pF	±10%	478-3422-ND	.10	.75	5.33	BQ014D0563K
			68,000pF	±5%	478-3380-ND	.11	.84	6.00	BQ014D0683J
			68,000pF	±10%	478-3436-ND	.11	.79	5.65	BQ014D0683K
			82,000pF	±10%	478-3424-ND	.11	.78	5.55	BQ014D0823K
			0.1µF	±5%	478-3368-ND	.12	.90	6.43	BQ014D0104J
			0.1µF	±10%	478-3383-ND	.11	.84	6.03	BQ014D0104K
			.12µF	±5%	478-3418-ND	.13	.94	6.73	BQ014D0124J
			.15µF	±5%	478-3372-ND	.13	.99	7.10	BQ014D0154J
			.15µF	±10%	478-3410-ND	.13	.93	6.68	BQ014D0154K
			.22µF	±5%	478-3370-ND	.24	1.75	12.50	BQ014D0224J
				±10%	478-3395-ND	.13	.99	7.05	BQ014D0224K

Volt. (DC)	Dim. (mm) H	Dim. (mm) W	Capac-itance	Toler-ance	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	AVX Part No.
63	8.0	3.2	.33µF	±5%	478-3378-ND	.23	1.68	11.98	BQ024D0334J
			.33µF	±10%	478-3400-ND	.21	1.58	11.25	BQ024D0334K
	8.0	5.0	.47µF	±5%	478-3371-ND	.34	2.53	18.08	BQ074D0474J
			.47µF	±10%	478-3415-ND	.32	2.38	17.00	BQ074D0474K
			.68µF	±10%	478-3417-ND	.36	2.64	18.85	BQ074D0684K
			1.0µF	±5%	478-3367-ND	.45	3.33	23.75	BQ074D0105J
			1.0µF	±10%	478-3375-ND	.42	3.13	22.33	BQ074D0105K
	12.0	6.0	2.2µF	±10%	478-3402-ND	.92	6.78	48.40	BQ054D0225K
100	6.5	2.5	1,000pF	±5%	478-3369-ND	.10	.74	5.30	BQ014E0102J
			1,500pF	±5%	478-3396-ND	.10	.75	5.38	BQ014E0152J
			2,200pF	±5%	478-3384-ND	.10	.77	5.48	BQ014E0222J
			2,200pF	±10%	478-3412-ND	.10	.72	5.15	BQ014E0222K
			3,300pF	±5%	478-3435-ND	.10	.77	5.53	BQ014E0332J
			3,300pF	±10%	478-3420-ND	.10	.72	5.18	BQ014E0332K
			4,700pF	±5%	478-3404-ND	.11	.78	5.55	BQ014E0472J
			6,800pF	±5%	478-3405-ND	.11	.81	5.80	BQ014E0682J
			6,800pF	±10%	478-3390-ND	.10	.76	5.45	BQ014E0682K
			10,000pF	±10%	478-3401-ND	.11	.81	5.75	BQ014E0103K
			15,000pF	±10%	478-3440-ND	.09	.68	4.85	BQ014E0153K
			22,000pF	±5%	478-3377-ND	.10	.74	5.28	BQ014E0223J
			33,000pF	±5%	478-3406-ND	.11	.83	5.90	BQ014E0333J
			47,000pF	±5%	478-3408-ND	.11	.79	5.63	BQ014E0473J
			47,000pF	±10%	478-3438-ND	.10	.74	5.28	BQ014E0473K
			0.1µF	±5%	478-3386-ND	.12	.90	6.43	BQ014E0104J
			0.1µF	±10%	478-3379-ND	.11	.84	6.03	BQ014E0104K
	8.0	5.0	.33µF	±5%	478-3394-ND	.23	1.68	11.98	BQ074E0334J
			.47µF	±5%	478-3437-ND	.61	4.48	32.00	BQ074E0474J
			.47µF	±10%	478-3428-ND	.48	3.54	25.25	BQ074E0474K
250	6.5	2.5	1,000pF	±10%	478-3389-ND	.11	.79	5.65	BQ014G0102K
			10,000pF	±5%	478-3430-ND	.13	.95	6.75	BQ014G0103J
			10,000pF	±10%	478-3426-ND	.12	.89	6.35	BQ014G0103K
	8.0	3.2	33,000pF	±10%	478-3398-ND	.15	1.14	8.15	BQ024G0333K
	8.0	5.0	0.1µF	±10%	478-3382-ND	.29	2.12	15.15	BQ074G0104K
400	6.5	2.5	1,000pF	±10%	478-3388-ND	.11	.79	5.65	BQ014I0102K

Medium Power Film Capacitors

The FFB and FFV3 series use a non-impregnated metallized polypropylene or polyester dielectric with the controlled self-healing process, specially treated to have a very high dielectric strength in operating conditions up to 105°C. They have been designed for printed circuit board mounting. Furthermore, their performance allows them to be an alternative to electrolytic technology because they can withstand much higher levels of surge voltage. One unique feature of this technology (as opposed to electrolytics) is how the capacitor reacts at the end of its lifetime. With an electrolytic, there is a strong risk of explosion of the case. However, with this line of film capacitors, the capacitor will simply experience a loss of capacitance of about 2% at the end of its life. This loss of capacitance is theoretical because the capacitor continues to be functional even after this 2% decrease.

Applications: The FFB and FFV3 series are particulary designed for DC filtering, low reactive power.

General Characteristics: • Climactic Category: 40/105/56 IEC 68 (FFV3 Series) 55/105/56 IEC 68 (FFB) • Test Voltage between terminals at 25°C is 1.5 X Vndc

Fig. 1

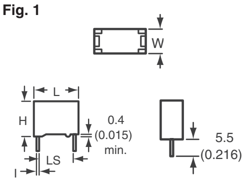

Fig. 2

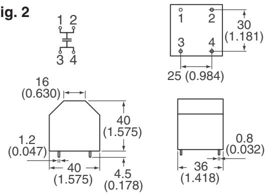

Fig.	Type	Voltage	Capacitance (µF)	Tolerance (%)	Irms Maximum (A)	Rs (mΩ)	Dimensions (mm) L	W	H	I	LS	Digi-Key Part No.	Price Each 1	10	100	1,000	AVX Part No.
FFB Series																	
1	Poly-ester	75VDC (45Vrms)	33	10	3.0	3.0	31.1	13.0	22.4	0.80	27.5	478-2589-ND	12.30	9.84	8.61	7.38	FFB14D0336K
			68		6.2	1.7	31.1	17.3	29.8	0.80	27.5	478-2590-ND	20.55	16.44	14.39	12.33	FFB34D0686K
			110		10	1.4	32.0	22.0	37.0	1.00	27.5	478-2591-ND	44.38	35.50	31.07	26.63	FFB54D0117K
		100VDC (60Vrms)	20	10	2.6	3.0	31.1	13.0	22.4	0.80	27.5	478-2592-ND	8.90	7.12	6.23	5.34	FFB14E0206K
			47		6.0	1.7	31.1	20.8	31.3	1.00	27.5	478-2593-ND	17.08	13.66	11.96	10.25	FFB44E0476K
			68		9.0	1.4	32.0	22.0	37.0	1.00	27.5	478-2594-ND	29.18	23.34	20.43	17.51	FFB54E0686K
		300VDC (90Vrms)	7.5	10	2.4	16	31.1	13.0	22.4	.80	27.5	478-2595-ND	5.85	4.68	4.10	3.51	FFB14H0755K
			18		6.0	7.0	31.1	20.8	31.3	1.00	27.5	478-2596-ND	10.30	8.24	7.21	6.18	FFB44H0186K
			27		9.0	5.0	32.0	22.0	37.0	1.00	27.5	478-2597-ND	22.28	17.82	15.60	13.37	FFB54H0276K
		400VDC (105Vrms)	6.2	10	2.5	17	31.1	13.0	22.4	.80	27.5	478-2598-ND	5.73	4.58	4.01	3.44	FFB14I0625K
			15		6.2	7.0	31.1	20.8	31.3	1.0	27.5	478-2599-ND	9.73	7.78	6.81	5.84	FFB44I0156K
			20		8.2	5.5	32.0	22.0	37.0	1.00	27.5	478-2600-ND	22.28	17.82	15.60	13.37	FFB54I0206K
	Polypro-pylene	525VDC (105Vrms)	3.9	10	5.1	30	31.1	13.0	22.4	.80	27.5	478-2601-ND	5.45	4.36	3.82	3.27	FFB16J0395K
			10		12	12	31.1	20.8	31.3	1.00	27.5	478-2602-ND	10.65	8.52	7.46	6.39	FFB46J0106K
			13		12	9.0	32.0	22.0	37.0	1.00	27.5	478-2603-ND	21.45	17.16	15.02	12.87	FFB56J0136K
		720VDC (120Vrms)	3.3	10	5.0	31	31.1	13.0	22.4	.80	27.5	478-2604-ND	5.20	4.16	3.64	3.12	FFB16A0335K
			7.5		11.4	14	31.1	20.8	31.3	1.00	27.5	478-2605-ND	10.15	8.12	7.11	6.09	FFB46A0755K
			10		12	11	32.0	22.0	37.0	1.00	27.5	478-2606-ND	21.05	16.84	14.74	12.63	FFB56A0106K
		900VDC (150Vrms)	2.0	10	3.6	41	31.1	13.0	22.4	.80	27.5	478-2607-ND	4.95	3.96	3.47	2.97	FFB16C0205K
			5.1		9.3	16	31.1	20.8	31.3	1.00	27.5	478-2608-ND	9.65	7.72	6.76	5.79	FFB46C0515K
			6.8		12	12	32.0	22.0	37.0	1.00	27.5	478-2609-ND	14.08	11.26	9.86	8.45	FFB56C0685K
		1100VDC (180Vrms)	1.5	10	3.3	45	31.1	13.0	22.4	.80	27.5	478-2610-ND	4.70	3.76	3.29	2.82	FFB16L0155K
			3.0		6.6	23	31.1	20.8	31.3	1.00	27.5	478-2611-ND	9.15	7.32	6.41	5.49	FFB46L0305K
			4.7		10.3	15	32.0	22.0	37.0	1.00	27.5	478-2612-ND	13.40	10.72	9.38	8.04	FFB56L0475K

Fig.	Type	Voltage	Capacitance (µF)	Tolerance (%)	Irms Maximum (A)	Rs (mΩ)	Digi-Key Part No.	Price Each 1	10	100	1,000	AVX Part No.
FFV3 Series												
2	Polyester	75VDC (45Vrms)	160	10	28	.47	478-2613-ND	41.58	36.39	31.19	29.11	FFV34D0167K
		100VDC (60Vrms)	100		24	.55	478-2614-ND	34.66	30.33	26.00	24.27	FFV34E0107K
		300VDC (90Vrms)	50		26	2.25	478-2615-ND	30.10	26.34	22.58	21.07	FFV34H0506K
		400VDC (105Vrms)	40		23	2.21	478-2616-ND	30.70	26.87	23.03	21.49	FFV34I0406K
	Polypro-pylene	500VDC (105Vrms)	20	10	27	5.88	478-2617-ND	22.40	19.60	16.80	15.68	FFV36J0206K
		700VDC (120Vrms)	20		30	5.15	478-2618-ND	23.44	20.51	17.58	16.41	FFV36A0206K
		900VDC (150Vrms)	13		25	6.33	478-2619-ND	22.44	19.64	16.83	15.71	FFV36C0136K
		1100VDC (180Vrms)	9.0		20	7.61	478-2620-ND	21.80	19.08	16.35	15.26	FFV36L0905K

Panasonic® AC Film Capacitors

Stack Type: Panasonic's "stack type" construction offers significant reduction in case size (compared to oil-filled can type) with a built-in mounting foot.

Features: • Compact size compared to oil-filled type capacitors • 0.187 inch (4.75mm) terminals standard (0.250 inch [6.35mm] available) • 180, 200, 230 are standard voltages • U.L. 810 (File # E76560) and C.S.A listed (CSA-C22.2 No. 0-M91 File # LR99617) • JIS standard is available. (JIS C 4908) • Primary applications: refrigeration, motor run, lighting, etc. • Flame retardant plastic case is rated 94 V-0

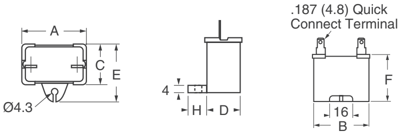

Voltage VAC	Cap. µF	A	B	C	D	E	F	H	Digi-Key Part No.	1	10	100	500	Panasonic Part No.
		Dimensions (mm)								Pricing				
Stack Type - SQ Case														
180	7.5	39.5	38.0	17.5	16.0	28.0	30.5	11.0	P9400-ND	3.40	27.20	231.20	1020.00	JS18755-AA
	10	39.5	38.0	22.0	20.5	32.5	30.5	11.0	P9401-ND	4.08	32.60	277.10	1222.50	JS18106-AA
	12	39.5	38.0	22.0	20.5	34.2	32.0	13.0	P9402-ND	4.55	36.40	309.40	1365.00	JS18126-AA
	15	39.5	38.0	26.7	25.2	37.0	32.0	11.0	P9403-ND◆	5.58	44.60	379.10	1672.50	JS18156-AA
	20	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9404-ND◆	6.50	52.00	442.00	1950.00	JS18206-AA
210	8	39.5	38.0	22.0	20.5	32.5	30.5	11.0	P9658-ND◆	3.83	30.60	260.10	1147.50	JS211805-AA
	10	39.5	38.0	22.0	20.5	34.2	32.0	13.0	P9405-ND	4.20	33.60	285.60	1260.00	JS21106-AA
	12	39.5	38.0	26.7	25.2	37.0	32.0	11.0	P9406-ND	4.70	37.60	319.60	1410.00	JS21126-AA
	15	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9407-ND◆	5.65	45.20	384.20	1695.00	JS21156-AA
230	10	39.5	38.0	22.0	20.5	34.2	32.0	13.0	P9408-ND◆	4.93	39.40	334.90	1477.50	JS23106-AA
	12	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9409-ND	5.43	43.40	368.90	1627.50	JS23126-AA
	15	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9410-ND	7.03	56.20	477.70	2107.50	JS23156-AA
Wound Type - Q Case														
250	10	49.7	48.3	24.0	22.5	34.5	34.5	11.5	P9411-ND◆	6.75	54.00	459.00	2025.00	JS251106-BA
	12	50.0	48.5	26.7	25.3	37.5	38.0	11.5	P9412-ND◆	7.68	61.40	521.90	2302.50	JS251126-BA
	15	50.0	48.5	30.5	28.8	41.0	36.0	11.5	P9413-ND	9.08	72.60	617.10	2722.50	JS251156-BA
440	4	49.7	48.3	24.0	22.5	34.5	34.5	11.5	P9659-ND◆	7.85	62.80	533.80	2355.00	DS441405-BA
	5	50.0	48.5	26.7	25.3	37.5	38.0	11.5	P9660-ND◆	8.38	67.00	569.50	2512.50	DS441505-BA
	6	50.0	48.5	30.5	28.8	41.0	41.5	11.5	P9661-ND◆	9.58	76.60	651.10	2872.50	DS441605-BA
Oil Wound Type — RoHS Compliant														
370	15	43.0	41.0	80.0	93.0	16.0	—	—	P9662-ND	4.38	35.02	297.67	1313.25	DS371156-CA
	20	43.0	41.0	90.0	103.0	16.0	—	—	P9663-ND	4.94	39.48	335.58	1480.50	DS371206-CA
	25	43.0	41.0	100.0	113.0	16.0	—	—	P9664-ND	5.55	44.42	377.57	1665.75	DS371256-CA
	30	43.0	41.0	110.0	123.0	16.0	—	—	P9665-ND	.61	4.87	41.36	182.48	DS371306-CA
	35	48.0	45.0	100.0	113.0	18.0	—	—	P9666-ND	6.70	53.58	455.43	2009.25	DS371356-CA
	40	48.0	45.0	110.0	123.0	18.0	—	—	P9667-ND	7.29	58.28	495.38	2185.50	DS371406-CA
	45	53.0	50.5	100.0	113.0	18.0	—	—	P9668-ND	7.96	63.70	541.45	2388.75	DS371456-CA
	50	53.0	50.5	110.0	123.0	18.0	—	—	P9669-ND	8.58	68.62	583.27	2573.25	DS371506-CA

◆ *RoHS Compliant*

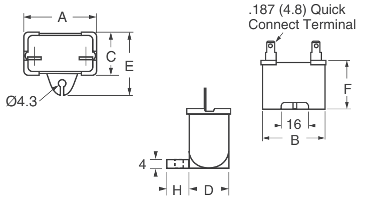

Wound Type: Panasonic's "wound type" construction brings dry film technology to higher voltage and microfarad applications, not available from our "stack type" construction.

Features: • Replacement for typical oil-filled aluminum or plastic can capacitor • Compact size —ideal where space is a premium • Built-in mounting bracket eliminates need for mounting strap • Meets U.L. 810 (File #E76560) • Primary applications: motor run, lighting, etc. • Terminals: 0.187 inch (4.75mm)

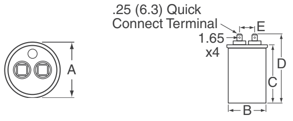

Oil Wound Type – ***Metallized polypropylene film:***

Features: • Self protection function built-in • Low-Loss and inherent temperature rise • Small and compact

Specifications: • Meets U.L. 810 (File #E76560) • Capacitance Tolerance: -5 ~ 10% • Temperature Range: -25°C ~ 70°C • Insulation Resistance: More than 1000MΩ • Dissipation Factor: Less than 0.3% • Withstand Voltage: Between Terminal: 1.75 x rated voltage for 60 seconds Terminal to Case: 2 x rated voltage for 60 seconds

Applications: • Motor run applications (Air Conditioner /Refrigerator) • Motor start applications

F

VISHAY. BC COMPONENTS Axial Ceramic Capacitors

Mechanical Parameters:

Terminal Strength: 2.2 Kg (5 lbs.) Minimum pull to destruction, per Method B5 of RS-198-CII, Test Condition A.

Lead Materials: #24 AWG (.020" ±0.001") Tinned, Copper Clad Steel. 30% Conductivity. Temper: Soft; Tensile Strength: 65000 PSI Maximum

Body: Conformally coated Epoxy.

Electrical Parameters:

Capacitance: Measured @ 1Mhz @ 1.0 ±0.2 VRMS @ 25°C for C0G types with C ≤1000pF. Measured @ 1Khz @ 1.0 ±0.2 VRMS @ 25°C for C0G types with C >1000pF. Measured @ 1Khz @ 1.0 VRMS ±.2 VRMS @ 25°C for X7R types.

Dissipation Factor: .1% Maximum for C0G types, 2.5% Maximum for X7R types; measurement conditions are the same as for capacitance measurement.

Dielectric Strength: Parts are subjected for up to 5 seconds @ 25°C to 250% of Rated Voltage and will exhibit no evidence of breakdown.

Insulation Resistance: When measured @ 25°C and Rated Voltage, the following Minimum Values will be met: 100KMΩ or 1000MΩ x µF (whichever is less).

Body Insulation: 500VDC Minimum, in accordance with RS-198-CII.

Operating Temperature Range: -55°C ~ 125°C for C0G, -55°C ~ 125°C for X7R.

Packaging: Mono-Axial parts are supplied in tape and reel and form per EIA RS-296.

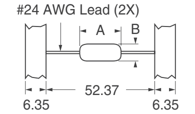

Taped and Reeled per EIA RS-296E

Size Code	A	B
15	3.81mm Max	2.54mm Max

Type	Voltage	Capacitance	Cap. Tol. (%)	Digi-Key Part No.	10	100	1,000	Digi-Key Part No.	Qty.	Pricing	Vishay Part No.
					Cut Tape Pricing				Tape and Reel		
C0G	100V	10pf	±5	1011PHCT-ND	1.22	8.81	60.98	1011PHTR-ND◆	7,000	41.00/M	A100J15C0GH5TAA
		15pf	±5	1012PHCT-ND	1.22	8.81	60.98	1012PHTR-ND	7,000	41.00/M	A150J15C0GH5TAA
		18pf	±5	1013PHCT-ND◆	1.22	8.81	60.98	1013PHTR-ND◆	7,000	41.00/M	A180J15C0GH5TAA
		22pf	±5	1014PHCT-ND◆	1.22	8.81	60.98	1014PHTR-ND◆	7,000	41.00/M	A220J15C0GH5TAA
		27pf	±5	1015PHCT-ND◆	1.22	8.81	60.98	1015PHTR-ND◆	7,000	41.00/M	A270J15C0GH5TAA
		33pf	±5	1016PHCT-ND◆	1.22	8.81	60.98	1016PHTR-ND◆	7,000	41.00/M	A330J15C0GH5TAA
		47pf	±5	1017PHCT-ND◆	1.22	8.81	60.98	1017PHTR-ND◆	7,000	41.00/M	A470J15C0GH5TAA
		68pf	±5	1018PHCT-ND	1.22	8.81	60.98	1018PHTR-ND	7,000	41.00/M	A680J15C0GH5TAA
	50V	100pf	±5	1001PHCT-ND◆	.78	5.66	39.15	1001PHTR-ND◆	7,000	26.00/M	A101J15C0GF5TAA
		180pf	±5	1003PHCT-ND◆	1.00	7.22	49.95	1003PHTR-ND◆	7,000	33.00/M	A181J15C0GF5TAA
		220pf	±5	1004PHCT-ND	1.00	7.22	49.95	1004PHTR-ND	7,000	33.00/M	A221J15C0GF5TAA
		330pf	±5	1005PHCT-ND◆	1.22	8.81	60.98	1005PHTR-ND◆	7,000	41.00/M	A331J15C0GF5TAA
		470pf	±5	1007PHCT-ND◆	1.22	8.81	60.98	1007PHTR-ND◆	7,000	41.00/M	A471J15C0GF5TAA
		560pf	±5	1008PHCT-ND	1.48	10.66	73.80	1008PHTR-ND	7,000	49.00/M	A561J15C0GF5TAA
		680pf	±5	1009PHCT-ND	1.48	10.66	73.80	1009PHTR-ND	7,000	49.00/M	A681J15C0GF5TAA
		1000pf	±5	1010PHCT-ND◆	1.38	9.98	69.08	1010PHTR-ND◆	7,000	46.00/M	A102J15C0GF5TAA
X7R	100V	270pf	±10	1111PHCT-ND	.81	5.88	40.73	1111PHTR-ND	7,000	27.00/M	A271K15X7RH5TAA
		330pf	±10	1112PHCT-ND◆	.81	5.88	40.73	1112PHTR-ND◆	7,000	27.00/M	A331K15X7RH5TAA
		470pf	±10	1113PHCT-ND◆	.81	5.88	40.73	1113PHTR-ND◆	7,000	27.00/M	A471K15X7RH5TAA
		680pf	±10	1114PHCT-ND◆	.81	5.88	40.73	1114PHTR-ND◆	7,000	27.00/M	A681K15X7RH5TAA
		820pf	±10	1115PHCT-ND◆	.81	5.88	40.73	1115PHTR-ND◆	7,000	27.00/M	A821K15X7RH5TAA
		.001µf	±10	1116PHCT-ND◆	.80	5.79	40.05	1116PHTR-ND◆	7,000	27.00/M	A102K15X7RH5TAA
		.0015µf	±10	1118PHCT-ND	.86	6.18	42.75	1118PHTR-ND	7,000	29.00/M	A152K15X7RH5TAA
		.0022µf	±10	1119PHCT-ND	.86	6.18	42.75	1119PHTR-ND◆	7,000	29.00/M	A222K15X7RH5TAA
	50V	.0033µf	±10	1101PHCT-ND◆	.75	5.43	37.58	1101PHTR-ND◆	7,000	25.00/M	A332K15X7RF5TAA
		.0047µf	±10	1102PHCT-ND◆	.75	5.43	37.58	1102PHTR-ND◆	7,000	25.00/M	A472K15X7RF5TAA
		.01µf	±10	1103PHCT-ND◆	.72	5.17	35.78	1103PHTR-ND◆	7,000	24.00/M	A103K15X7RF5TAA
		.022µf	±10	1105PHCT-ND	.81	5.88	40.73	1105PHTR-ND◆	7,000	27.00/M	A223K15X7RF5TAA
		.033µf	±10	1106PHCT-ND◆	.87	6.27	43.43	1106PHTR-ND◆	7,000	29.00/M	A333K15X7RF5TAA
		.047µf	±10	1107PHCT-ND◆	.88	6.37	44.10	1107PHTR-ND◆	7,000	29.00/M	A473K15X7RF5TAA
		.1µf	±10	1109PHCT-ND◆	.86	6.21	42.98	1109PHTR-ND◆	7,000	29.00/M	A104K15X7RF5TAA

◆ *RoHS Compliant*

Mono-Kap™

Leaded Ceramic Multilayer Capacitors

These conformally coated radial leaded capacitors are designed for commercial and industrial applications, such as: timing, coupling/decoupling, signal comparison and biasing.

Size Code	Dimensions (mm) W Max.	H Max.	T Max.
15	4.0	4.0	2.5
20	5.0	5.0	3.2

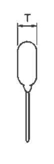

Fig. 1

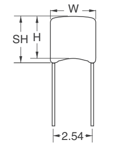

Fig. 2

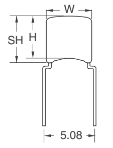

Fig.	Cap. Value	Size Code	Dim. (mm) SH Max.	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel‡ Qty.	Tape and Reel‡ Pricing	Vishay Part No.
Type COG 50V ±5%									
1	10pF	15	5.58	BC1001CT-ND◆	.76	5.46	4,000	25.00/M	K100J15C0GF5TL2
	12pF	15	5.58	BC1002CT-ND◆	.76	5.46	4,000	25.00/M	K120J15C0GF5TL2
	15pF	15	5.58	BC1003CT-ND	.76	5.46	4,000	25.00/M	K150J15C0GF5TL2
	18pF	15	5.58	BC1004CT-ND◆	.76	5.46	4,000	25.00/M	K180J15C0GF5TL2
	22pF	15	5.58	BC1005CT-ND◆	.76	5.46	4,000	25.00/M	K220J15C0GF5TL2
	27pF	15	5.58	BC1006CT-ND◆	.76	5.46	4,000	25.00/M	K270J15C0GF5TL2
	33pF	15	5.58	BC1007CT-ND◆	.76	5.46	4,000	25.00/M	K330J15C0GF5TL2
	39pF	15	5.58	BC1008CT-ND◆	.76	5.46	4,000	25.00/M	K390J15C0GF5TL2
	47pF	15	5.58	BC1009CT-ND◆	.76	5.46	4,000	25.00/M	K470J15C0GF5TL2
	56pF	15	5.58	BC1010CT-ND◆	.76	5.46	4,000	25.00/M	K560J15C0GF5TL2
	68pF	15	5.58	BC1011CT-ND◆	.74	5.36	4,000	25.00/M	K680J15C0GF5TL2
	82pF	15	5.58	BC1012CT-ND◆	.76	5.46	4,000	25.00/M	K820J15C0GF5TL2
	100pF	15	5.58	BC1013CT-ND◆	.76	5.46	4,000	25.00/M	K101J15C0GF5TL2
	120pF	15	5.58	BC1014CT-ND	.91	6.60	4,000	30.00/M	K121J15C0GF5TL2
	150pF	15	5.58	BC1015CT-ND◆	.91	6.60	4,000	30.00/M	K151J15C0GF5TL2
	180pF	15	5.58	BC1016CT-ND◆	.91	6.60	4,000	30.00/M	K181J15C0GF5TL2
	220pF	15	5.58	BC1017CT-ND◆	.91	6.60	4,000	30.00/M	K221J15C0GF5TL2
	270pF	15	5.58	BC1018CT-ND◆	1.13	8.13	4,000	38.00/M	K271J15C0GF5TL2
	330pF	15	5.58	BC1019CT-ND◆	1.13	8.13	4,000	38.00/M	K331J15C0GF5TL2
	390pF	15	5.58	BC1020CT-ND	1.13	8.13	4,000	38.00/M	K391J15C0GF5TL2
	470pF	15	5.58	BC1021CT-ND◆	1.13	8.13	4,000	38.00/M	K471J15C0GF5TL2
	560pF	15	5.58	BC1022CT-ND◆	1.38	9.95	4,000	46.00/M	K561J15C0GF5TL2
	680pF	15	5.58	BC1023CT-ND	1.38	9.95	4,000	46.00/M	K681J15C0GF5TL2
	820pF	15	5.58	BC1024CT-ND◆	1.38	9.95	4,000	46.00/M	K821J15C0GF5TL2
	1000pF	15	5.58	BC1025CT-ND◆	2.25	16.25	4,000	75.00/M	K102J15C0GF5TL2
	1200pF	15	5.58	BC1026CT-ND	2.00	14.46	4,000	67.00/M	K122J15C0GF5TL2
	1500pF	15	5.58	BC1027CT-ND◆	2.00	14.46	4,000	67.00/M	K152J15C0GF5TL2
	1800pF	15	5.58	BC1028CT-ND	2.00	14.46	4,000	67.00/M	K182J15C0GF5TL2
	2200pF	15	5.58	BC1029CT-ND◆	2.32	16.77	4,000	77.00/M	K222J15C0GF5TL2
2	10pF	15	6.5	BC1030CT-ND	.76	5.46	4,000	25.00/M	K100J15C0GF5TH5
	15pF	15	6.5	BC1032CT-ND◆	.76	5.46	4,000	25.00/M	K150J15C0GF5TH5
	18pF	15	6.5	BC1033CT-ND◆	.76	5.46	4,000	25.00/M	K180J15C0GF5TH5
	22pF	15	6.5	BC1034CT-ND◆	.76	5.46	4,000	25.00/M	K220J15C0GF5TH5
	27pF	15	6.5	BC1035CT-ND◆	.76	5.46	4,000	25.00/M	K270J15C0GF5TH5
	33pF	15	6.5	BC1036CT-ND◆	.76	5.46	4,000	25.00/M	K330J15C0GF5TH5
	47pF	15	6.5	BC1038CT-ND◆	.76	5.46	4,000	25.00/M	K470J15C0GF5TH5
	56pF	15	6.5	BC1039CT-ND	.76	5.46	4,000	25.00/M	K560J15C0GF5TH5
	68pF	15	6.5	BC1040CT-ND◆	.76	5.46	4,000	25.00/M	K680J15C0GF5TH5
	82pF	15	6.5	BC1041CT-ND◆	.76	5.46	4,000	25.00/M	K820J15C0GF5TH5
	100pF	15	6.5	BC1042CT-ND◆	.76	5.46	4,000	25.00/M	K101J15C0GF5TH5
	150pF	15	6.5	BC1043CT-ND	.91	6.60	4,000	30.00/M	K151J15C0GF5TH5
	220pF	15	6.5	BC1044CT-ND◆	.91	6.60	4,000	30.00/M	K221J15C0GF5TH5
	330pF	15	6.5	BC1045CT-ND◆	1.13	8.13	4,000	38.00/M	K331J15C0GF5TH5
	470pF	15	6.5	BC1046CT-ND◆	1.13	8.13	4,000	38.00/M	K471J15C0GF5TH5
	1000pF	15	6.5	BC1048CT-ND◆	2.25	16.25	4,000	75.00/M	K102J15C0GF5TH5
	2200pF	15	6.5	BC1050CT-ND	2.32	16.77	4,000	77.00/M	K222J15C0GF5TH5
	3300pF	20	7.5	BC1051CT-ND	5.16	37.28	3,000	172.00/M	K332J20C0GF5TH5
	4700pF	20	7.5	BC1052CT-ND◆	5.16	37.28	3,000	172.00/M	K472J20C0GF5TH5
Type COG 100V ±5%									
1	10pF	15	5.58	BC1054CT-ND◆	1.16	8.35	4,000	39.00/M	K100J15C0GH5TL2
	22pF	15	5.58	BC1055CT-ND◆	1.16	8.35	4,000	39.00/M	K220J15C0GH5TL2
	100pF	15	5.58	BC1057CT-ND	1.16	8.35	4,000	39.00/M	K101J15C0GH5TL2
	220pF	15	5.58	BC1058CT-ND◆	1.44	10.40	4,000	48.00/M	K221J15C0GH5TL2
2	100pF	15	6.5	BC1064CT-ND◆	1.16	8.35	4,000	39.00/M	K101J15C0GH5TH5
	220pF	15	6.5	BC1065CT-ND	1.44	10.40	4,000	48.00/M	K221J15C0GH5TH5
	470pF	15	6.5	BC1066CT-ND	1.80	13.03	4,000	60.00/M	K471J15C0GH5TH5
Type X7R 50V ±10%									
1	220pF	15	5.58	BC1068CT-ND◆	.69	5.01	4,000	23.00/M	K221K15X7RF5TL2
	680pF	15	5.58	BC1071CT-ND◆	.69	5.01	4,000	23.00/M	K681K15X7RF5TL2
1	1000pF	15	5.58	BC1072CT-ND◆	.69	5.01	4,000	23.00/M	K102K15X7RF5TL2
	2200pF	15	5.58	BC1074CT-ND◆	.70	5.04	4,000	23.00/M	K222K15X7RF5TL2
	3300pF	15	5.58	BC1075CT-ND◆	.70	5.04	4,000	23.00/M	K332K15X7RF5TL2
	4700pF	15	5.58	BC1076CT-ND◆	.70	5.04	4,000	23.00/M	K472K15X7RF5TL2
	6800pF	15	5.58	BC1077CT-ND◆	.70	5.04	4,000	23.00/M	K682K15X7RF5TL2
	.01µF	15	5.58	BC1078CT-ND◆	.69	5.01	4,000	23.00/M	K103K15X7RF5TL2
	.022µF	15	5.58	BC1080CT-ND◆	.78	5.66	4,000	26.00/M	K223K15X7RF5TL2
	.033µF	15	5.58	BC1081CT-ND◆	.83	6.01	4,000	28.00/M	K333K15X7RF5TL2
	.047µF	15	5.58	BC1082CT-ND◆	.83	5.98	4,000	28.00/M	K473K15X7RF5TL2
	.068µF	15	5.58	BC1083CT-ND	1.19	8.58	4,000	40.00/M	K683K15X7RF5TL2
	.1µF	15	5.58	BC1084CT-ND◆	.81	5.82	4,000	27.00/M	K104K15X7RF5TL2
2	220pF	15	6.5	BC1085CT-ND	.69	5.01	4,000	23.00/M	K221K15X7RF5TH5
	330pF	15	6.5	BC1086CT-ND	.69	5.01	4,000	23.00/M	K331K15X7RF5TH5
	470pF	15	6.5	BC1087CT-ND◆	.69	5.01	4,000	23.00/M	K471K15X7RF5TH5
	1000pF	15	6.5	BC1089CT-ND◆	.69	5.01	4,000	23.00/M	K102K15X7RF5TH5
	2200pF	15	6.5	BC1091CT-ND◆	.70	5.04	4,000	23.00/M	K222K15X7RF5TH5
	3300pF	15	6.5	BC1092CT-ND◆	.70	5.04	4,000	23.00/M	K332K15X7RF5TH5
	4700pF	15	6.5	BC1093CT-ND◆	.70	5.04	4,000	23.00/M	K472K15X7RF5TH5
	6800pF	15	6.5	BC1094CT-ND	.70	5.04	4,000	23.00/M	K682K15X7RF5TH5
	.01µF	15	6.5	BC1095CT-ND◆	.69	5.01	4,000	23.00/M	K103K15X7RF5TH5
	.022µF	15	6.5	BC1097CT-ND◆	.78	5.66	4,000	26.00/M	K223K15X7RF5TH5
	.033µF	15	6.5	BC1098CT-ND	.83	6.01	4,000	28.00/M	K333K15X7RF5TH5
	.047µF	15	6.5	BC1099CT-ND◆	.83	5.98	4,000	28.00/M	K473K15X7RF5TH5
	.1µF	15	6.5	BC1101CT-ND◆	.81	5.82	4,000	27.00/M	K104K15X7RF5TH5
	.22µF	20	7.5	BC1103CT-ND◆	2.31	16.67	3,000	77.00/M	K224K20X7RF5TH5
Type X7R 100V ±10%									
1	1000pF	15	5.58	BC1108CT-ND◆	.78	5.62	4,000	26.00/M	K102K15X7RH5TL2
	4700pF	15	5.58	BC1110CT-ND	.83	5.98	4,000	28.00/M	K472K15X7RH5TL2
	.01µF	15	5.58	BC1111CT-ND	1.00	7.25	4,000	33.00/M	K103K15X7RH5TL2
	.022µF	20	6.58	BC1112CT-ND	1.51	10.89	4,000	50.00/M	K223K20X7RH5TL2
	.1µF	20	6.58	BC1114CT-ND◆	1.96	14.17	3,000	65.00/M	K104K20X7RH5TL2
2	470pF	15	6.5	BC1116CT-ND◆	.78	5.66	4,000	26.00/M	K471K15X7RH5TH5
	1000pF	15	6.5	BC1117CT-ND◆	.78	5.62	4,000	26.00/M	K102K15X7RH5TH5
	.01µF	15	6.5	BC1120CT-ND◆	1.00	7.25	4,000	33.00/M	K103K15X7RH5TH5
	.047µF	20	7.5	BC1122CT-ND	2.15	15.54	3,000	72.00/M	K473K20X7RH5TH5
	.1µF	20	7.5	BC1123CT-ND◆	1.96	14.17	3,000	65.00/M	K104K20X7RH5TH5
Type Y5V 25V +80/-20% — RoHS Compliant									
1	.022µF	15	5.58	BC1147CT-ND	1.31	9.43	—	—	K223Z15Y5VE5TL2
	.1µF	15	5.58	BC1148CT-ND	.66	4.78	4,000	22.00/M	K104Z15Y5VE5TL2
	.47µF	20	6.58	BC1150CT-ND	1.96	14.14	3,000	65.00/M	K474Z20Y5VE5TL2
	1µF	20	6.58	BC1151CT-ND	1.78	12.84	3,000	59.00/M	K105Z20Y5VE5TL2
2	.01µF	15	6.5	BC1152CT-ND	.72	5.17	4,000	24.00/M	K103Z15Y5VE5TH5
	1µF	20	7.5	BC1157CT-ND	1.78	12.84	3,000	59.00/M	K105Z20Y5VE5TH5
Type Y5V 50V +80/-20%									
1	.01µF	15	5.58	BC1158CT-ND◆	.72	5.17	4,000	24.00/M	K103Z15Y5VF5TL2
	.1µF	15	5.58	BC1160CT-ND◆	.66	4.78	4,000	22.00/M	K104Z15Y5VF5TL2
	1µF	20	6.58	BC1162CT-ND◆	1.78	12.84	3,000	59.00/M	K105Z20Y5VF5TL2
2	.01µF	15	6.5	BC1163CT-ND	.72	5.17	4,000	24.00/M	K103Z15Y5VF5TH5
	.1µF	15	6.5	BC1165CT-ND◆	.66	4.78	4,000	22.00/M	K104Z15Y5VF5TH5
	.47µF	20	7.5	BC1167CT-ND◆	1.96	14.14	3,000	65.00/M	K474Z20Y5VF5TH5
	1µF	20	7.5	BC1168CT-ND◆	1.78	12.84	3,000	59.00/M	K105Z20Y5VF5TH5

‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Ceramic Disc Capacitors for Safety Regulations – Type NS-A

(IEC384-14 2nd Ed. Sub-Class Y1/X1)

Kinked Lead

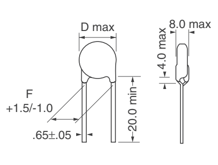

Straight Lead

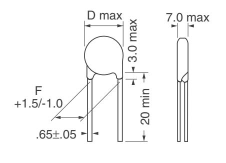

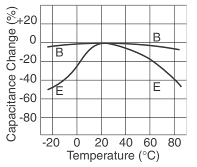

Class II Equipment. Type NS-A is recognized by UL and CSA (UL1414/250VAC and CSA C22.2 No. 1).

SPECIFICATIONS: • **Operating Temperature Range:** -25°C ~ 85°C • **Rated Voltage:**

Applicable Standards	Rated Voltage
UL	250 VAC
CSA	125 VAC
IEC 384-14 2nd Ed. (EN 132 400) Sub-Class Y1	250 VAC
SEV 1016 (3300 to 4700 pF)	250 VAC
BSI (BS415: 1990), VDE 560-2, SEV1016 (100 to 2200 pF)	400 VAC

- **Dielectric Withstanding Voltage:** 4000VAC (50/60Hz) for 1 minute
- **Capacitance:** Within the tolerance, when measured at 1kHz ± 20%, 1 Vrms and 20°C
- **Dissipation Factor (tan δ):** 0.025 maximum, when measured at 1kHz ± 20%, 1 Vrms and 20°C
- **Insulation Resistance:** 10,000MΩ min. at 500VDC and 1 minute electrification
- **Temperature Characteristics:**

Temp. Char.	Capacitance Change	Temp. Range
B/Y5P/2B4	±10% Maximum	-25°C ~ 85°C
E/Y5U/2E4	+20/-55% Maximum	-25°C ~ 85°C
The reference temperature: 20°C		

Nominal Capacitance (pF)	Capacitance Tolerance (%)	Temperature Characteristics	Dimensions (mm)		Kinked Lead - *RoHS Compliant*					Straight Lead (Not Recommended for New Design)				
			D	F	Digi-Key Part No.	Pricing 10	100	1000	Panasonic Part No.	Digi-Key Part No.	Pricing 5	10	100	Panasonic Part No.
100	±20	B	11.00	10.0	P9521-ND	4.37	29.29	149.10	ECK-ANA101MB	—	—	—	—	—
150	±20	B	11.00	10.0	P9522-ND	4.37	29.29	149.10	ECK-ANA151MB	—	—	—	—	—
220	±20	B	11.00	10.0	P9523-ND	4.37	29.29	149.10	ECK-ANA221MB	—	—	—	—	—
470	±20	B	11.00	10.0	P9524-ND	4.37	29.29	149.10	ECK-ANA471MB	—	—	—	—	—
1000	±20	B	11.00	10.0	P9525-ND	4.37	29.29	149.10	ECK-ANA102MB	—	—	—	—	—
1500	±20	E	11.00	10.0	P9526-ND	4.37	29.29	149.10	ECK-ANA152ME	—	—	—	—	—
2200	±20	E	11.00	10.0	P9527-ND	4.37	29.29	149.10	ECK-ANA222ME	—	—	—	—	—
3300	±20	E	13.00	10.0	P9528-ND	4.68	31.38	159.74	ECK-ANA332ME	P10453-ND	5.61	8.35	61.34	ECK-DNA332ME
4700	±20	E	16.00	10.0	P9529-ND	4.92	32.54	195.21	ECK-ANA472ME	—	—	—	—	—

Ceramic Disc Capacitors for Safety Regulations – Type TS

(IEC384-14 2nd Ed. Sub-Class Y2/X1)

Approved by UL and CSA for rated voltage 250VAC.

RECOMMENDED APPLICATIONS:
Noise suppression circuit for switching power supply.

SPECIFICATIONS:

- **Operating Temperature Range:** –25°C ~ 125°C
- **Rated Voltage:** 250VAC
- **Voltage Proof:** 2600VAC for 1 minute
- **Capacitance:** Within the tolerance, when measured at 1kHz ±20%, 1 Vrms and 20ºC
- **Dissipation Factor (tan δ):** 0.025 maximum, when measured at 1kHz ± 20%, 1 Vrms and 20°C
- **Insulation Resistance:** 10,000MΩ min. at 500VDC and 1 minute electrification
- **Temperature Characteristics:**

Temperature Characteristics	Capacitance Change	Temperature Range
B/Y5P/2B4	±10% Maximum	-25°C ~ 85°C
E/Y5U/2E4	+20/-55% Maximum	-25°C ~ 85°C
F/Y5V/2F4	+30/-80% Maximum	-25°C ~ 85°C
The reference temperature: 20°C		

Fig. 1

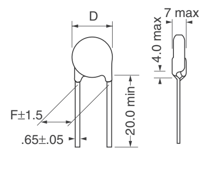

Fig. 2

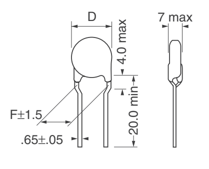

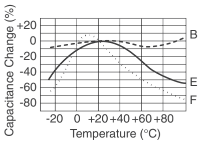

Fig.	Nominal Cap. (pF)	Cap. Tol. (%)	Temp. Char.	Dimensions (mm) D ± 1.0	F	Digi-Key Part No.	Pricing 5	10	100	Panasonic Part No.
1	100	±20	B	7.0	7.5	P10455-ND◆	2.24	3.06	20.52	ECK-ATS101MB
	150	±20	B	7.0	7.5	P10456-ND◆	2.24	3.06	20.52	ECK-ATS151MB
	220	±20	B	7.0	7.5	P10457-ND◆	2.24	3.06	20.52	ECK-ATS221MB
	330	±20	B	7.0	7.5	P10458-ND	2.24	3.06	20.52	ECK-ATS331MB
	470	±20	B	7.0	7.5	P10459-ND◆	2.24	3.06	20.52	ECK-ATS471MB
	680	±20	B	7.0	7.5	P10460-ND◆	2.24	3.06	20.52	ECK-ATS681MB
	1000	±20	E	7.0	7.5	P10461-ND◆	2.33	3.18	21.34	ECK-ATS102ME
	1000	±20	B	9.5	7.5	P9657-ND◆	2.41	3.26	23.02	ECK-ATS102MB
	1500	±20	E	8.0	7.5	P10462-ND◆	2.65	3.62	24.28	ECK-ATS152ME
	2200	±20	E	9.0	7.5	P10463-ND◆	2.69	3.68	24.70	ECK-ATS222ME
2	3300	±20	E	11.5	7.5	P10464-ND◆	3.24	4.43	29.73	ECK-ATS332ME
1	4700	±20	E	14.0	10.0	P10465-ND◆	3.35	4.55	30.13	ECK-ATS472ME
2	4700	±20	F	11.5	7.5	P10466-ND◆	3.24	4.43	29.73	ECK-ATS472MF
	4700	±20	E	14.0	7.5	P10468-ND◆	3.35	4.55	30.13	ECK-ATS472ME6
1	10000	±20	F	16.0*	10.0	P10467-ND◆	3.73	5.07	33.55	ECK-ATS103MF
2	10000	±20	F	16.0*	7.5	P10469-ND	3.73	5.07	33.55	ECK-ATS103MF6

* D is ± 1.5 ◆ *RoHS Compliant*

Ceramic Disc Capacitors for Safety Regulations – Type VS (Sub-Class Y2/X1)

Type VS is recognized by VDE (IEC60384-14) and UL/CSA.

FEATURES:

- Miniature size, 30% smaller than conventional Type TS

RECOMMENDED APPLICATIONS:

- AC adapter, Battery charger for PC, Mobile-phone • Terminal peripheral equipment as MODEM, xDSL

SPECIFICATIONS:

- **Operating Temperature Range**: -25ºC ~ 125ºC (-25ºC ~ 85°C for UL and CSA) • **Rated Voltage:** 250VAC/Y2, 440VAC/X1
- **Voltage Proof:** 1500VAC, 1 minute • **Dissipation Factor (tan δ):** 0.025 maximum, when measured at 1kHz ± 20%, 1.0±0.2 Vrms and 20°C (for Temperature Characteristics B, E and F) • **Insulation Resistance:** 10,000MΩ min. at 500VDC and 60±5 second electrification

Temp. Char.	Capacitance Change	Temperature Range
SL	+350 ~ -1000ppm/°C	20°C ~ 85°C
B	±10% Maximum	-20°C ~ 85°C
E	+20, -55% Maximum	-20°C ~ 85°C
F	+30, -80% Maximum	-20°C ~ 85°C
The reference temperature: 20°C		

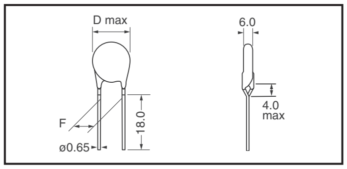

Nominal Cap. (pF)	Cap. Tol. (%)	Temp. Char.	Dimensions (mm)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Box		Panasonic Part No.
			D	F		1	10	100		Qty.	Pricing	
5	±0.5pF	SL	8.0	5.0	P11408CT-ND◆	.32	2.18	15.40	P11408TB-ND◆	1,000	84.00	ECC-NVS050DG
10	±0.5pF	SL	8.0	5.0	P11409CT-ND◆	.52	3.56	23.86	P11409TB-ND◆	1,000	122.00	ECC-NVS100DG
22	±5%	SL	8.0	5.0	P11410CT-ND◆	.52	3.56	23.86	P11410TB-ND◆	1,000	122.00	ECC-NVS220JG
47	±5%	SL	8.0	5.0	P11411CT-ND◆	.52	3.56	23.86	P11411TB-ND◆	1,000	122.00	ECC-NVS470JG
100	±10%	B	8.0	5.0	P11412CT-ND◆	.52	3.56	23.86	P11412TB-ND◆	1,000	122.00	ECK-NVS101KB
150	±10%	B	8.0	5.0	P11413CT-ND	.52	3.56	23.86	P11413TB-ND	1,000	122.00	ECK-NVS151KB
220	±10%	B	8.0	5.0	P11414CT-ND◆	.52	3.56	23.86	P11414TB-ND◆	1,000	122.00	ECK-NVS221KB
330	±10%	B	8.0	5.0	P11415CT-ND◆	.52	3.56	23.86	P11415TB-ND◆	1,000	122.00	ECK-NVS331KB
470	±10%	B	8.0	5.0	P11416CT-ND◆	.52	3.56	23.86	P11416TB-ND◆	1,000	122.00	ECK-NVS471KB
1000	±10%	B	9.0	5.0	P11417CT-ND◆	.34	2.51	17.92	P11417TB-ND◆	1,000	100.00	ECK-NVS102KB
1000	±20%	E	8.0	5.0	P11418CT-ND◆	.57	3.87	25.95	P11418TB-ND◆	1,000	132.00	ECK-NVS102ME
1500	±20%	E	8.0	5.0	P11419CT-ND◆	.57	3.87	25.95	P11419TB-ND◆	1,000	132.00	ECK-NVS152ME
2200	±20%	E	9.0	5.0	P11420CT-ND◆	.61	4.18	28.04	P11420TB-ND◆	1,000	143.00	ECK-NVS222ME
4700	±20%	E	11.0	5.0	P11421CT-ND◆	.74	5.02	33.21	P11421TB-ND◆	1,000	199.00	ECK-NVS472ME
4700	±20%	F	10.0	5.0	P11422CT-ND◆	.70	4.76	31.50	P11422TB-ND◆	1,000	189.00	ECK-NVS472MF
10000	±20%	F	14.0	7.5	P11423CT-ND◆	.81	5.54	36.63	P11423TB-ND◆	500	138.50	ECK-NVS103MF

◆ *RoHS Compliant*

KEMET CHARGED.

Ceramic Conformally Coated Axial Leaded Capacitors "AXIMAX"

The "Aximax" series of multi-layer ceramic capacitors starts with a capacitor element that consists of formulated dielectric materials which have been cast into thin layers, interspersed with metal electrodes alternately exposed on opposite edges of the laminated structure. The entire structure is fired at high temperature to produce a monolithic block, which provides high capacitance values in a small physical volume. After firing, conductive terminations are applied to opposite ends of the chip to make contact with the exposed electrodes.

KEMET leaded ceramic capacitors are offered in the three most popular temperature characteristics: **C0G:** Class 1, with a temperature coefficient of 0 ± 30ppm per degree C over an operating temperature range of -55°C ~ 125°C (Also known as "NP0"). **X7R:** Class II, with a maximum capacitance change of ±15% over an operating temperature range of -55°C ~ 125°C. **Z5U:** Class III, with a maximum capacitance change of 22% - 56% over an operating temperature range of 10°C ~ 85°C.

Style	L Max. Inch (mm)	D Max. Inch (mm)
C410	.170 (4.32)	.100 (2.54)
C412	.170 (4.32)	.120 (3.05)
C420	.260 (6.60)	.100 (2.54)
C430	.290 (7.37)	.150 (3.81)
C440	.400 (10.16)	.150 (3.81)

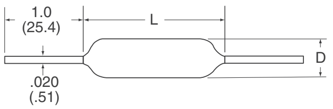

Dielectric	Voltage	Cap.	Cap. Tol.(%)	Size Code	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Kemet Part No.
						1	10	100	1,000		Qty.	Pricing	
C0G	100	15pF	±5	410	399-1807-1-ND	.29	2.79	20.18	139.73	—	—	—	C410C150J1G5CA7200
		68pF	±5	410	399-1811-1-ND	.29	2.79	20.18	139.73	—	—	—	C410C680J1G5CA7200
		1500pF	±5	420	399-1819-1-ND	.44	4.14	29.90	207.00	—	—	—	C420C152J1G5CA7200
		6800pF	±5	430	399-1823-1-ND	1.02	9.63	69.52	481.28	399-1823-2-ND	2,500	320.86/M	C430C682J1G5CA7200
		680pF	±5	410	399-1826-1-ND	.30	2.85	20.57	142.43	—	—	—	C410C681J5G5CA7200
		1500pF	±5	412	399-1828-1-ND	.46	4.35	31.40	217.35	399-1828-2-ND	5,000	144.90/M	C412C152J5G5CA7200
		2200pF	±5	412	399-1829-1-ND	.46	4.35	31.40	217.35	—	—	—	C412C222J5G5CA7200
		1500pF	±5	420	399-1830-1-ND	.46	4.35	31.40	217.35	399-1830-2-ND	5,000	144.90/M	C420C152J5G5CA7200
	50	2200pF	±5	420	399-1831-1-ND	.46	4.35	31.40	217.35	399-1831-2-ND	5,000	145.00/M	C420C222J5G5CA7200
		3300pF	±5	430	399-1832-1-ND	.85	8.02	57.95	401.18	399-1832-2-ND	2,500	267.46/M	C430C332J5G5CA7200
		4700pF	±5	430	399-1833-1-ND	.85	8.02	57.95	401.18	—	—	—	C430C472J5G5CA7200
		6800pF	±5	430	399-1834-1-ND	.85	8.02	57.95	401.18	—	—	—	C430C682J5G5CA7200
		.01µF	±5	440	399-1835-1-ND	1.17	11.13	80.37	556.43	—	—	—	C440C103J5G5CA7200
X7R	100	680pF	±10	410	399-1838-1-ND	.22	2.13	15.37	106.43	399-1838-2-ND	5,000	70.95/M	C410C681K1R5CA7200
		1500pF	±10	410	399-1840-1-ND	.22	2.13	15.37	106.43	399-1840-2-ND	5,000	70.95/M	C410C152K1R5CA7200
		3300pF	±10	410	399-1842-1-ND	.22	2.13	15.37	106.43	399-1842-2-ND	5,000	70.95/M	C410C332K1R5CA7200
		.015µF	±10	412	399-1846-1-ND	.26	2.48	17.88	123.75	399-1846-2-ND	5,000	82.50/M	C412C153K1R5CA7200
		.015µF	±10	420	399-1848-1-ND	.26	2.48	17.88	123.75	—	—	—	C420C153K1R5CA7200
		.022µF	±10	420	399-1849-1-ND	.37	3.47	25.03	173.25	399-1849-2-ND	5,000	115.50/M	C420C223K1R5CA7200
		.068µF	±10	430	399-1852-1-ND	.65	6.14	44.33	306.90	399-1852-2-ND	2,500	204.60/M	C430C683K1R5CA7200
		.15µF	±10	440	399-1854-1-ND	.96	9.11	65.78	455.40	399-1854-2-ND	2,500	303.60/M	C440C154K1R5CA7200
	50	.015µF	±10	410	399-1856-1-ND	.29	2.72	19.66	136.13	—	—	—	C410C153K5R5CA7200
		.068µF	±10	412	399-1860-1-ND	.31	2.97	21.45	148.50	—	—	—	C412C683K5R5CA7200
		.068µF	±10	420	399-1862-1-ND	.31	2.97	21.45	148.50	—	—	—	C420C683K5R5CA7200
		.15µF	±10	430	399-1864-1-ND	.65	6.14	44.33	306.90	399-1864-2-ND	2,500	204.60/M	C430C154K5R5CA7200
		.33µF	±10	440	399-1866-1-ND	1.06	10.00	72.22	499.95	—	—	—	C440C334K5R5CA7200
		.47µF	±10	440	399-1867-1-ND	1.57	14.85	107.25	742.50	—	—	—	C440C474K5R5CA7200
Z5U	100	.015µF	±20	410	399-1869-1-ND	.19	1.83	13.23	91.58	399-1869-2-ND	5,000	61.05/M	C410C153M1U5CA7200
		.022µF	±20	410	399-1870-1-ND	.19	1.83	13.23	91.58	—	—	—	C410C223M1U5CA7200
		.033µF	±20	420	399-1871-1-ND	.30	2.87	20.74	143.55	399-1871-2-ND	5,000	95.70/M	C420C333M1U5CA7200
		.068µF	±20	430	399-1873-1-ND	.52	4.95	35.75	247.50	399-1873-2-ND	2,500	165.00/M	C430C683M1U5CA7200
		.22µF	±20	440	399-1876-1-ND	.57	5.45	39.33	272.25	—	—	—	C440C224M1U5CA7200
	50	.033µF	±20	410	399-1877-1-ND	.18	1.68	12.16	84.15	—	—	—	C410C333M5U5CA7200
		.068µF	±20	410	399-1879-1-ND	.18	1.68	12.16	84.15	—	—	—	C410C683M5U5CA7200
		.15µF	±20	410	399-1881-1-ND	.26	2.48	17.88	123.75	399-1881-2-ND	5,000	82.50/M	C410C154M5U5CA7200
		.33µF	±20	420	399-1884-1-ND	.40	3.81	27.53	190.58	—	—	—	C420C334M5U5CA7200
		.68µF	±20	430	399-1886-1-ND	.65	6.19	44.69	309.38	—	—	—	C430C684M5U5CA7200
RoHS Compliant													
CoG	100	10pF	±5	410	399-4446-1-ND	.29	2.79	20.18	139.73	399-4446-2-ND	5,000	93.00/M	C410C100J1G5TA7200
		15pF	±5	410	399-4455-1-ND	.29	2.79	20.18	139.73	399-4455-2-ND	5,000	93.00/M	C410C150J1G5TA7200
		22pF	±5	410	399-4461-1-ND	.29	2.79	20.18	139.73	399-4461-2-ND	5,000	93.00/M	C410C220J1G5TA7200
		33pF	±5	410	399-4467-1-ND	.29	2.79	20.18	139.73	399-4467-2-ND	5,000	93.00/M	C410C330J1G5TA7200
		47pF	±5	410	399-4472-1-ND	.29	2.79	20.18	139.73	399-4472-2-ND	5,000	93.00/M	C410C470J1G5TA7200
		68pF	±5	410	399-4478-1-ND	.29	2.79	20.18	139.73	399-4478-2-ND	5,000	93.00/M	C410C680J1G5TA7200
		100pF	±5	410	399-4447-1-ND	.26	2.48	17.94	124.20	399-4447-2-ND	5,000	83.00/M	C410C101J1G5TA7200
		150pF	±5	410	399-4456-1-ND	.29	2.79	20.18	139.73	399-4456-2-ND	5,000	93.00/M	C410C151J1G5TA7200
		220pF	±5	410	399-4462-1-ND	.29	2.79	20.18	139.73	399-4462-2-ND	5,000	93.00/M	C410C221J1G5TA7200
		330pF	±5	410	399-4468-1-ND	.29	2.79	20.18	139.73	399-4468-2-ND	5,000	93.00/M	C410C331J1G5TA7200
		680pF	±5	410	399-4479-1-ND	.29	2.79	20.18	139.73	399-4479-2-ND	5,000	93.00/M	C410C681J1G5TA7200
		470pF	±5	410	399-4473-1-ND	.29	2.79	20.18	139.73	399-4473-2-ND	5,000	93.00/M	C410C471J1G5TA7200
		1000pF	±5	410	399-4448-1-ND	.27	2.59	18.69	129.38	399-4448-2-ND	5,000	86.00/M	C410C102J1G5TA7200
		1500pF	±5	420	399-4492-1-ND	.44	4.14	29.90	207.00	399-4492-2-ND	5,000	138.00/M	C420C152J1G5TA7202
		2200pF	±5	420	399-4495-1-ND	.46	4.35	31.40	217.35	399-4495-2-ND	5,000	145.00/M	C420C222J1G5TA7200
		3300pF	±5	430	399-1821-1-ND	.75	7.14	51.58	357.08	—	—	—	C430C332J1G5CA7200
		3300pF	±5	430	399-4508-1-ND	.75	7.14	51.58	357.08	399-4508-2-ND	2,500	238.00/M	C430C332J1G5TA7200
		4700pF	±5	430	399-4510-1-ND	.75	7.14	51.58	357.08	399-4510-2-ND	2,500	238.00/M	C430C472J1G5TA7200
		6800pF	±5	430	399-4514-1-ND	1.02	9.63	69.52	481.28	399-4514-2-ND	2,500	321.00/M	C430C682J1G5TA7200
		.01µF	±5	440	399-1824-1-ND	1.17	11.13	80.37	556.43	—	—	—	C440C103J1G5CA7200
		.01µF	±5	440	399-4519-1-ND	1.17	11.13	80.37	556.43	399-4519-2-ND	2,500	371.00/M	C440C103J1G5TA7200
		.015µF	±5	440	399-1825-1-ND	1.17	11.13	80.37	556.43	—	—	—	C440C153J1G5CA7200
		.015µF	±5	440	399-4522-1-ND	1.17	11.13	80.37	556.43	399-4522-2-ND	2,500	371.00/M	C440C153J1G5TA7200

(Continued)

Ceramic Conformally Coated Axial Leaded Capacitors "AXIMAX" *(Cont.)*

Dielectric	Voltage	Cap.	Cap. Tol.(%)	Size Code	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Kemet Part No.
						1	10	100	1,000		Qty.	Pricing	
C0G	50	680pF	±5	410	399-4480-1-ND	.30	2.85	20.57	142.43	399-4480-2-ND	5,000	95.00/M	C410C681J5G5TA7200
		1000pF	±5	410	399-4449-1-ND	.27	2.59	18.69	129.38	399-4449-2-ND	5,000	86.00/M	C410C102J5G5TA7200
		1000pF	±5	410	399-1827-1-ND	.27	2.59	18.69	129.38	—	—	—	C410C102J5G5CA7200
		1500pF	±5	412	399-4485-1-ND	.46	4.35	31.40	217.35	399-4485-2-ND	5,000	145.00/M	C412C152J5G5TA7200
		2200pF	±5	412	399-4487-1-ND	.46	4.35	31.40	217.35	399-4487-2-ND	5,000	145.00/M	C412C222J5G5TA7200
		1500pF	±5	420	399-4493-1-ND	.46	4.35	31.40	217.35	399-4493-2-ND	5,000	145.00/M	C420C152J5G5TA7200
		2200pF	±5	420	399-4496-1-ND	.46	4.35	31.40	217.35	399-4496-2-ND	5,000	145.00/M	C420C222J5G5TA7200
		3300pF	±5	430	399-4509-1-ND	.85	8.02	57.95	401.18	399-4509-2-ND	2,500	267.00/M	C430C332J5G5TA7200
		4700pF	±5	430	399-4511-1-ND	.85	8.02	57.95	401.18	399-4511-2-ND	2,500	267.00/M	C430C472J5G5TA7200
		6800pF	±5	430	399-4515-1-ND	.85	8.02	57.95	401.18	399-4515-2-ND	2,500	267.00/M	C430C682J5G5TA7200
		.01µF	±5	440	399-4520-1-ND	1.17	11.13	80.37	556.43	399-4520-2-ND	2,500	371.00/M	C440C103J5G5TA7200
		.015µF	±5	440	399-4523-1-ND	1.44	13.66	98.67	683.10	399-4523-2-ND	2,500	455.00/M	C440C153J5G5TA7200
		.015µF	±5	440	399-1836-1-ND	1.44	13.66	98.67	683.10	399-1836-2-ND	2,500	455.40/M	C440C153J5G5CA7200
X7R	100	470pF	±10	410	399-4474-1-ND	.22	2.13	15.37	106.43	399-4474-2-ND	5,000	71.00/M	C410C471K1R5TA7200
		680pF	±10	410	399-4481-1-ND	.22	2.13	15.37	106.43	399-4481-2-ND	5,000	71.00/M	C410C681K1R5TA7200
		1000pF	±10	410	399-4450-1-ND	.21	1.98	14.30	99.00	399-4450-2-ND	5,000	66.00/M	C410C102K1R5TA7200
		1000pF	±10	410	399-1839-1-ND	.21	1.98	14.30	99.00	399-1839-2-ND	5,000	66.00/M	C410C102K1R5CA7200
		1500pF	±10	410	399-4457-1-ND	.22	2.13	15.37	106.43	399-4457-2-ND	5,000	71.00/M	C410C152K1R5TA7200
		2200pF	±10	410	399-4463-1-ND	.22	2.13	15.37	106.43	399-4463-2-ND	5,000	71.00/M	C410C222K1R5TA7200
		3300pF	±10	410	399-4469-1-ND	.22	2.13	15.37	106.43	399-4469-2-ND	5,000	71.00/M	C410C332K1R5TA7200
		4700pF	±10	410	399-4475-1-ND	.22	2.13	15.37	106.43	399-4475-2-ND	5,000	71.00/M	C410C472K1R5TA7200
		6800pF	±10	410	399-4482-1-ND	.22	2.13	15.37	106.43	399-4482-2-ND	5,000	71.00/M	C410C682K1R5TA7200
		.01µF	±10	410	399-4451-1-ND	.18	1.68	12.16	84.15	399-4451-2-ND	5,000	56.00/M	C410C103K1R5TA7200
		.015µF	±10	412	399-4486-1-ND	.26	2.48	17.88	123.75	399-4486-2-ND	5,000	83.00/M	C412C153K1R5TA7200
		.022µF	±10	412	399-4488-1-ND	.33	3.17	22.88	158.40	399-4488-2-ND	5,000	106.00/M	C412C223K1R5TA7200
		.015µF	±10	420	399-4494-1-ND	.26	2.48	17.88	123.75	399-4494-2-ND	5,000	83.00/M	C420C153K1R5TA7200
		.022µF	±10	420	399-4497-1-ND	.37	3.47	25.03	173.25	399-4497-2-ND	5,000	116.00/M	C420C223K1R5TA7200
		.033µF	±10	420	399-4498-1-ND	.37	3.47	25.03	173.25	399-4498-2-ND	5,000	116.00/M	C420C333K1R5TA7200
		.047µF	±10	430	399-4512-1-ND	.47	4.46	32.18	222.75	399-4512-2-ND	2,500	149.00/M	C430C473K1R5TA7200
		.1µF	±10	430	399-4503-1-ND	.52	4.95	35.75	247.50	399-4503-2-ND	2,500	165.00/M	C430C104K1R5TA7200
		.068µF	±10	430	399-4516-1-ND	.65	6.14	44.33	306.90	399-4516-2-ND	2,500	205.00/M	C430C683K1R5TA7200
		.15µF	±10	440	399-4524-1-ND	.96	9.11	65.78	455.40	399-4524-2-ND	2.500	304.00/M	C440C154KR15TA7200
	50	.01µF	±10	410	399-4452-1-ND	.17	1.58	11.44	79.20	399-4452-2-ND	5,000	53.00/M	C410C103K5R5TA7200
		.015µF	±10	410	399-4458-1-ND	.29	2.72	19.66	136.13	399-4458-2-ND	5,000	91.00/M	C410C153K5R5TA7200
		.022µF	±10	410	399-4464-1-ND	.29	2.72	19.66	136.13	399-4464-2-ND	5,000	91.00/M	C410C223K5R5TA7200
		.033µF	±10	410	399-4470-1-ND	.29	2.72	19.66	136.13	399-4470-2-ND	5,000	91.00/M	C410C333K5R5TA7200
		.047µF	±10	410	399-4476-1-ND	.31	2.97	21.45	148.50	399-4476-2-ND	5,000	99.00/M	C410C473K5R5TA7200
		.068µF	±10	412	399-4490-1-ND	.31	2.97	21.45	148.50	399-4490-2-ND	5,000	99.00/M	C412C683K5R5TA7200
		.1µF	±10	412	399-4484-1-ND	.20	1.88	13.59	94.05	399-4484-2-ND	5,000	63.00/M	C412C104K5R5TA7200
		.068µF	±10	420	399-4502-1-ND	.31	2.97	21.45	148.50	399-4502-2-ND	5,000	99.00/M	C420C683K5R5TA7200
		.1µF	±10	420	399-4491-1-ND	.20	1.88	13.59	94.05	399-4491-2-ND	5,000	63.00/M	C420C104K5R5TA7200
		.15µF	±10	430	399-4505-1-ND	.65	6.14	44.33	306.90	399-4505-2-ND	2,500	205.00/M	C430C154K5R5TA7200
		.22µF	±10	430	399-4507-1-ND	.96	9.11	65.78	455.40	399-4507-2-ND	2,500	304.00/M	C430C224K5R5TA7200
		.33µF	±10	440	399-4526-1-ND	1.06	10.00	72.22	499.95	399-4526-2-ND	2,500	333.00/M	C440C334K5R5TA7200
		.47µF	±10	440	399-4527-1-ND	1.57	14.85	107.25	742.50	399-4527-2-ND	2,500	495.00/M	C440C474K5R5TA7200
Z5U	100	.01µF	±20	410	399-4453-1-ND	.14	1.29	9.30	64.35	399-4453-2-ND	5,000	43.00/M	C410C103M1U5TA7200
		.015µF	±20	410	399-4459-1-ND	.19	1.83	13.23	91.58	399-4459-2-ND	5,000	61.00/M	C410C153M1U5TA7200
		.022µF	±20	410	399-4465-1-ND	.19	1.83	13.23	91.58	399-4465-2-ND	5,000	61.00/M	C410C223M1U5TA7200
		.033µF	±20	420	399-4499-1-ND	.30	2.87	20.74	143.55	399-4499-2-ND	5,000	96.00/M	C420C333M1U5TA7200
		.047µF	±20	420	399-4501-1-ND	.30	2.87	20.74	143.55	399-4501-2-ND	5,000	96.00/M	C420C473M1U5TA7200
		.068µF	±20	430	399-4517-1-ND	.52	4.95	35.75	247.50	399-4517-2-ND	2,500	165.00/M	C430C683M1U5TA7200
		.1µF	±20	430	399-4504-1-ND	.34	3.22	23.24	160.88	399-4504-2-ND	2,500	107.00/M	C430C104M1U5TA7200
		.15µF	±20	430	399-4506-1-ND	.57	5.45	39.33	272.25	399-4506-2-ND	2,500	182.00/M	C430C154M1U5TA7200
		.22µF	+20	440	399-4525-1-ND	.57	5.45	39.33	272.25	399-4525-2-ND	2,500	182.00/M	C440C224M1U5TA7200
	50	.033µF	±20	410	399-4471-1-ND	.18	1.68	12.16	84.15	399-4471-2-ND	5,000	56.00/M	C410C333M5U5TA7200
		.047µF	±20	410	399-4477-1-ND	.18	1.68	12.16	84.15	399-4477-2-ND	5,000	56.00/M	C410C473M5U5TA7200
		.068µF	±20	410	399-4483-1-ND	.18	1.68	12.16	84.15	399-4483-2-ND	5,000	56.00/M	C410C683M5U5TA7200
		.1µF	±20	410	399-4454-1-ND	.13	1.19	8.58	59.40	399-4454-2-ND	5,000	40.00/M	C410C104M5U5TA7200
		.15µF	±20	410	399-4460-1-ND	.26	2.48	17.88	123.75	399-4460-2-ND	5,000	83.00/M	C410C154M5U5TA7200
		.22µF	±20	410	399-4466-1-ND	.26	2.48	17.88	123.75	399-4466-2-ND	5,000	83.00/M	C410C224M5U5TA7200
		.33µF	±20	412	399-4489-1-ND	.40	3.81	27.53	190.58	399-4489-2-ND	5,000	127.00/M	C412C334M5U5TA7200
		.33µF	±20	420	399-4500-1-ND	.40	3.81	27.53	190.58	399-4500-2-ND	5,000	127.00/M	C420C334M5U5TA7200
		.47µF	±20	430	399-4513-1-ND	.65	6.19	44.69	309.38	399-4513-2-ND	2,500	206.00/M	C430C474M5U5TA7200
		.68µF	±20	430	399-4518-1-ND	.65	6.19	44.69	309.38	399-4518-2-ND	2,500	206.00/M	C430C684M5U5TA7200
		4µF	±20	440	399-4521-1-ND	.84	7.92	57.20	396.00	399-4521-2-ND	2,500	264.00/M	C440C105M5U5TA7200

Ceramic Conformally Coated Radial Leaded Capacitors “GOLDEN MAX”

The “Golden Max” series of multi-layer ceramic capacitors starts with a capacitor element that consists of formulated dielectric materials which have been cast into thin layers, and interspersed with metal electrodes alternately exposed on opposite edges of the laminated structure. The entire structure is fired at high temperature to produce a monolithic block, which provides high capacitance values in a small physical volume. After firing, conductive terminations are applied to opposite ends of the chip to make contact with the exposed electrodes.

KEMET leaded ceramic capacitors are offered in the three most popular temperature characteristics: **C0G:** Class 1, with a temperature coefficient of 0 ± 30ppm per degree C over an operating temperature range of -55°C ~ 125°C (Also known as “NP0”). **X7R:** Class II, with a maximum capacitance change of ±15% over an operating temperature range of -55°C ~ 125°C. **Z5U:** Class III, with a maximum capacitance change of 22% - 56% over an operating temperature range of 10°C ~ 85°C.

Series:
C315
C320
C330
C340
C350

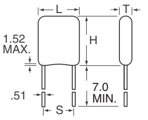

Series:
C317
C322
C323

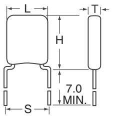

Dielec-tric	VDC	Cap.	Dimensions – mm S	Max. L	Max. H	Max. T	Digi-Key Part No.	Pricing 1	10	100	Kemet Part No.
C315 Series — RoHS Compliant											
C0G ±5%	100	150pF	2.54	3.81	5.33	2.54	399-4153-ND	.27	1.96	14.00	C315C151J1G5TA
		220pF	2.54	3.81	5.33	2.54	399-4163-ND	.27	1.96	14.00	C315C221J1G5TA
		330pF	2.54	3.81	5.33	2.54	399-4173-ND	.27	1.96	14.00	C315C331J1G5TA
		470pF	2.54	3.81	5.33	2.54	399-4182-ND	.27	1.96	14.00	C315C471J1G5TA
		680pF	2.54	3.81	5.33	2.54	399-4191-ND	.38	2.82	20.15	C315C681J1G5TA
		1000pF	2.54	3.81	5.33	2.54	399-4143-ND	.31	2.28	16.25	C315C102J1G5TA
	200	10pF	2.54	3.81	5.33	2.54	399-4140-ND	.26	1.93	13.75	C315C100J2G5TA
		15pF	2.54	3.81	5.33	2.54	399-4152-ND	.28	2.08	14.85	C315C150J2G5TA
		22pF	2.54	3.81	5.33	2.54	399-4162-ND	.28	2.08	14.85	C315C220J2G5TA
		27pF	2.54	3.81	5.33	2.54	399-4171-ND	.28	2.08	14.85	C315C270J2G5TA
		33pF	2.54	3.81	5.3 3	2.54	399-4172-ND	.28	2.08	14.85	C315C330J2G5TA
		47pF	2.54	3.81	5.33	2.54	399-4181-ND	.28	2.08	14.85	C315C470J2G5TA
		68pF	2.54	3.81	5.33	2.54	399-4190-ND	.30	2.19	15.68	C315C680J2G5TA
		100pF	2.54	3.81	5.33	2.54	399-4141-ND	.28	2.08	14.85	C315C101J2G5TA
		150pF	2.54	3.81	5.33	2.54	399-4154-ND	.32	2.35	16.80	C315C151J2G5TA
		220pF	2.54	3.81	5.33	2.54	399-4164-ND	.32	2.35	16.80	C315C221J2G5TA
		330pF	2.54	3.81	5.33	2.54	399-4174-ND	.38	2.82	20.15	C315C331J2G5TA
		470pF	2.54	3.81	5.33	2.54	399-4183-ND	.38	2.82	20.15	C315C471J2G5TA
X7R ±10%	50	3300pF	2.54	3.81	5.33	2.54	399-4177-ND	.19	1.39	9.90	C315C332K5R5TA
		4700pF	2.54	3.81	5.33	2.54	399-4186-ND	.21	1.54	11.00	C315C472K5R5TA
		6800pF	2.54	3.81	5.33	2.54	399-4194-ND	.21	1.54	11.00	C315C682K5R5TA
		.01µF	2.54	3.81	5.33	2.54	399-4148-ND	.20	1.51	10.75	C315C103K5R5TA
		.015µF	2.54	3.81	5.33	2.54	399-4159-ND	.21	1.54	11.00	C315C153K5R5TA
		.022µF	2.54	3.81	5.33	2.54	399-4169-ND	.22	1.66	11.83	C315C223K5R5TA
		.033µF	2.54	3.81	5.33	2.54	399-4179-ND	.22	1.66	11.83	C315C333K5R5TA
	100	1000pF	2.54	3.81	5.33	2.54	399-4144-ND	.17	1.27	9.08	C315C102K1R5TA
		1500pF	2.54	3.81	5.33	2.54	399-4156-ND	.19	1.39	9.90	C315C152K1R5TA
		2200pF	2.54	3.81	5.33	2.54	399-4166-ND	.19	1.39	9.90	C315C222K1R5TA
		3300pF	2.54	3.81	5.33	2.54	399-4176-ND	.19	1.39	9.90	C315C332K1R5TA
		4700pF	2.54	3.81	5.33	2.54	399-4185-ND	.21	1.54	11.00	C315C472K1R5TA
		6800pF	2.54	3.81	5.33	2.54	399-4193-ND	.21	1.54	11.00	C315C682K1R5TA
		.01µF	2.54	3.81	5.33	2.54	399-4147-ND	.19	1.39	9.90	C315C103K1R5TA
	200	100pF	2.54	3.81	5.33	2.54	399-4142-ND	.22	1.65	11.75	C315C101K2R5TA
		150pF	2.54	3.81	5.33	2.54	399-4155-ND	.24	1.80	12.88	C315C151K2R5 TA
		220pF	2.54	3.81	5.33	2.54	399-4165-ND	.24	1.80	12.88	C315C221K2R5TA
		330pF	2.54	3.81	5.33	2.54	399-4175-ND	.24	1.80	12.88	C315C331K2R5TA
		470pF	2.54	3.81	5.33	2.54	399-4184-ND	.24	1.80	12.88	C315C471K2R5TA
		680pF	2.54	3.81	5.33	2.54	399-4192-ND	.24	1.80	12.88	C315C681K2R5TA
		1000pF	2.54	3.81	5.33	2.54	399-4145-ND	.22	1.65	11.75	C315C102K2R5TA
		1500pF	2.54	3.81	5.33	2.54	399-4157-ND	.24	1.80	12.88	C315C152K2R5TA
		2200pF	2.54	3.81	5.33	2.54	399-4167-ND	.24	1.80	12.88	C315C222K2R5TA
Z5U ±20%	50	4700pF	2.54	3.81	5.33	2.54	399-4188-ND	.19	1.37	9.78	C315C472M5U5TA
		6800pF	2.54	3.81	5.33	2.54	399-4196-ND	.19	1.37	9.78	C315C682M5U5TA
		.01µF	2.54	3.81	5.33	2.54	399-4150-ND	.16	1.21	8.63	C315C103M5U5TA
		.015µF	2.54	3.81	5.33	2.54	399-4161-ND	.18	1.33	9.50	C315C153M5U5TA
		.022µF	2.54	3.81	5.33	2.54	399-4170-ND	.18	1.33	9.50	C315C223M5U5TA
		.033µF	2.54	3.81	5.33	2.54	399-4180-ND	.18	1.33	9.50	C315C333M5U5TA
		.047µF	2.54	3.81	5.33	2.54	399-4189-ND	.18	1.33	9.50	C315C473M5U5TA
		.068µF	2.54	3.81	5.33	2.54	399-4197-ND	.20	1.49	10.65	C315C683M5U5TA
		.1µF	2.54	3.81	5.33	2.54	399-4151-ND	.16	1.21	8.63	C315C104M5U5TA
	100	1000pF	2.54	3.81	5.33	2.54	399-4146-ND	.17	1.25	8.93	C315C102M1U5TA
		1500pF	2.54	3.81	5.33	2.54	399-4158-ND	.19	1.37	9.78	C315C152M1U5TA
		2200pF	2.54	3.81	5.33	2.54	399-4168-ND	.19	1.37	9.78	C315C222M1U5TA
		3300pF	2.54	3.81	5.33	2.54	399-4178-ND	.19	1.37	9.78	C315C332M1U5TA
		4700pF	2.54	3.81	5.33	2.54	399-4187-ND	.19	1.37	9.78	C315C472M1U5TA
		6800pF	2.54	3.81	5.33	2.54	399-4195-ND	.19	1.37	9.78	C315C682M1U5TA
		.01µF	2.54	3.81	5.33	2.54	399-4149-ND	.17	1.25	8.93	C315C103M1U5TA
		.015µF	2.54	3.81	5.33	2.54	399-4160-ND	.21	1.53	10.93	C315C153M1U5TA
C317 Series											
Z5U ±20%	100	6800pF	5.08	3.81	5.84	2.54	399-2133-ND	.19	1.37	9.78	C317C682M1U5CA
		.015µF	5.08	3.81	5.84	2.54	399-2135-ND	.21	1.53	10.93	C317C153M1U5CA
C317 Series — RoHS Compliant											
C0G ±5%	100	150pF	5.08	3.81	5.84	2.54	399-4211-ND	.27	1.96	14.00	C317C151J1G5TA
		220pF	5.08	3.81	5.84	2.54	399-4221-ND	.27	1.96	14.00	C317C221J1G5TA
		330pF	5.08	3.81	5.84	2.54	399-4230-ND	.27	1.96	14.00	C317C331J1G5TA
		470pF	5.08	3.81	5.84	2.54	399-4240-ND	.27	1.96	14.00	C317C471J1G5TA
		680pF	5.08	3.81	5.84	2.54	399-4248-ND	.38	2.82	20.15	C317C681J1G5TA
		1000pF	5.08	3.81	5.84	2.54	399-4201-ND	.31	2.28	16.25	C317C102J1G5TA
	200	10pF	5.08	3.81	5.84	2.54	399-4198-ND	.26	1.93	13.75	C317C100J2G5TA
		15pF	5.08	3.81	5.84	2.54	399-4210-ND	.28	2.08	14.85	C317C150J2G5TA
		22pF	5.08	3.81	5.84	2.54	399-4220-ND	.28	2.08	14.85	C317C220J2G5TA
		33pF	5.08	3.81	5.84	2.54	399-4229-ND	.28	2.08	14.85	C317C330J2G5TA
		39pF	5.08	3.81	5.84	2.54	399-4238-ND	.28	2.08	14.85	C317C390J2G5TA
		47pF	5.08	3.81	5.84	2.54	399-4239-ND	.28	2.08	14.85	C317C470J2G5TA
		68pF	5.08	3.81	5.84	2.54	399-4247-ND	.30	2.19	15.68	C317C680J2G5TA
		100pF	5.08	3.81	5.84	2.54	399-4199-ND	.28	2.08	14.85	C317C101J2G5TA
		150pF	5.08	3.81	5.84	2.54	399-4212-ND	.32	2.35	16.80	C317C151J2G5TA
		220pF	5.08	3.81	5.84	2.54	399-4222-ND	.32	2.35	16.80	C317C221J2G5TA
C0G ±5%	200	330pF	5.08	3.81	5.84	2.54	399-4231-ND	.38	2.82	20.15	C317C331J2G5TA
		470pF	5.08	3.81	5.84	2.54	399-4241-ND	.38	2.82	20.15	C317C471J2G5TA
X7R ±10%	50	3300pF	5.08	3.81	5.84	2.54	399-4234-ND	.19	1.39	9.90	C317C332K5R5TA
		4700pF	5.08	3.81	5.84	2.54	399-4244-ND	.21	1.54	11.00	C317C472K5R5TA
		6800pF	5.08	3.81	5.84	2.54	399-4251-ND	.21	1.54	11.00	C317C682K5R5TA
		.01µF	5.08	3.81	5.84	2.54	399-4206-ND	.20	1.51	10.75	C317C103K5R5TA
		.015µF	5.08	3.81	5.84	2.54	399-4217-ND	.21	1.54	11.00	C317C153K5R5TA
		.022µF	5.08	3.81	5.84	2.54	399-4227-ND	.22	1.66	11.83	C317C223K5R5TA
		.033µF	5.08	3.81	5.84	2.54	399-4236-ND	.22	1.66	11.83	C317C333K5R5TA
	100	1000pF	5.08	3.81	5.84	2.54	399-4202-ND	.17	1.27	9.08	C317C102K1R5TA
		1500pF	5.08	3.81	5.84	2.54	399-4214-ND	.19	1.39	9.90	C317C152K1R5TA
		2200pF	5.08	3.81	5.84	2.54	399-4224-ND	.19	1.39	9.90	C317C222K1R5TA
		3300pF	5.08	3.81	5.84	2.54	399-4233-ND	.19	1.39	9.90	C317C332K1R5TA
		4700pF	5.08	3.81	5.84	2.54	399-4243-ND	.21	1.54	11.00	C317C472K1R5TA
		6800pF	5.08	3.81	5.84	2.54	399-4250-ND	.21	1.54	11.00	C317C682K1R5TA
		.01µF	5.08	3.81	5.84	2.54	399-4205-ND	.19	1.39	9.90	C317C103K1R5TA
	200	100pF	5.08	3.81	5.84	2.54	399-4200-ND	.22	1.65	11.75	C317C101K2R5TA
		150pF	5.08	3.81	5.84	2.54	399-4213-ND	.24	1.80	12.88	C317C151K2R5TA
		220pF	5.08	3.81	5.84	2.54	399-4223-ND	.24	1.80	12.88	C317C221K2R5TA
		330pF	5.08	3.81	5.84	2.54	399-4232-ND	.24	1.80	12.88	C317C331K2R5TA
		470pF	5.08	3.81	5.84	2.54	399-4242-ND	.24	1.80	12.88	C317C471K2R5TA
		680pF	5.08	3.81	5.84	2.54	399-4249-ND	.24	1.80	12.88	C317C681K2R5TA
		1000pF	5.08	3.81	5.84	2.54	399-4203-ND	.22	1.65	11.75	C317C102K2R5TA
		1500pF	5.08	3.81	5.84	2.54	399-4215-ND	.24	1.80	12.88	C317C152K2R5TA
		2200pF	5.08	3.81	5.84	2.54	399-4225-ND	.24	1.80	12.88	C317C222K2R5TA
Z5U ±20%	50	6800pF	5.08	3.81	5.84	2.54	399-4253-ND	.19	1.37	9.78	C317C682M5U5TA
		.01µF	5.08	3.81	5.84	2.54	399-4208-ND	.16	1.21	8.63	C317C103M5U5TA
		.015µF	5.08	3.81	5.84	2.54	399-4219-ND	.18	1.33	9.50	C317C153M5U5TA
		.022µF	5.08	3.81	5.84	2.54	399-4228-ND	.18	1.33	9.50	C317C223M5U5TA
		.033µF	5.08	3 .81	5.84	2.54	399-4237-ND	.18	1.33	9.50	C317C333M5U5TA
		.047µF	5.08	3.81	5.84	2.54	399-4246-ND	.18	1.33	9.50	C317C473M5U5TA
		.068µF	5.08	3.81	5.84	2.54	399-4254-ND	.20	1.49	10.65	C317C683M5U5TA
		.1µF	5.08	3.81	5.84	2.54	399-4209-ND	.16	1.21	8.63	C317C104M5U5TA
	100	1000pF	5.08	3.81	5.84	2.54	399-4204-ND	.17	1.25	8.93	C317C102M1U5TA
		1500pF	5.08	3.81	5.84	2.54	399-4216-ND	.19	1.37	9.78	C317C152M1U5TA
		2200pF	5.08	3.81	5.84	2.54	399-4226-ND	.19	1.37	9.78	C317C222M1U5TA
		3300pF	5.08	3.81	5.84	2.54	399-4235-ND	.19	1.37	9.78	C317C332M1U5TA
		4700pF	5.08	3.81	5.84	2.54	399-4245-ND	.19	1.37	9.78	C317C472M1U5TA
		6800pF	5.08	3.81	5.84	2.54	399-4252-ND	.19	1.37	9.78	C317C682M1U5TA
		.01µF	5.08	3.81	5.84	2.54	399-4207-ND	.17	1.25	8.93	C317C103M1U5TA
		.015µF	5.08	3.81	5.84	2.54	399-4218-ND	.21	1.53	10.93	C317C153M1U5TA
C320 Series											
C0G ±5%	200	1500pF	2.54	5.08	6.60	3.18	399-1937-ND	.45	3.30	23.58	C320C152J2G5CA
C320 Series — RoHS Compliant											
C0G ±5%	100	680pF	2.54	5.08	6.60	3.18	399-4311-ND	.39	2.85	20.35	C320C681J1G5TA
		1000pF	2.54	5.08	6.60	3.18	399-4257-ND	.31	2.29	16.38	C320C102J1G5TA
		1500pF	2.54	5.08	6.60	3.18	399-4269-ND	.39	2.90	20.70	C320C152J1G5TA
		2200pF	2.54	5.08	6.60	3.18	399-4281-ND	.39	2.90	20.70	C320C222J1G5TA
		3300pF	2.54	5.08	6.60	3.18	399-4292-ND	.45	3.30	23.58	C320C332J1G5TA
		4700pF	2.54	5.08	6.60	3.18	399-4302-ND	.48	3.54	25.30	C320C472J1G5TA
	200	10pF	2.54	5.08	6.60	3.18	399-4255-ND	.27	1.96	14.00	C320C100J2G5TA
		15pF	2.54	5.08	6.60	3.18	399-4267-ND	.29	2.12	15.13	C320C150J2G5TA
		22pF	2.54	5.08	6.60	3.18	399-4279-ND	.29	2.12	15.13	C320C220J2G5TA
		33pF	2.54	5.08	6.60	3.18	399-4290-ND	.29	2.12	15.13	C320C330J2G5TA
		47pF	2.54	5.08	6.60	3.18	399-4300-ND	.29	2.12	15.13	C320C470J2G5TA
		68pF	2.54	5.08	6.60	3.18	399-4310-ND	.30	2.23	15.95	C320C680J2G5TA
		100pF	2.54	5.08	6.60	3.18	399-4256-ND	.29	2.12	15.13	C320C101J2G5TA
		150pF	2.54	5.08	6.60	3.18	399-4268-ND	.32	2.37	16.95	C320C151J2G5TA
		220pF	2.54	5.08	6.60	3.18	399-4280-ND	.32	2.37	16.95	C320C221J2G5TA
		330pF	2.54	5.08	6.60	3.18	399-4291-ND	.39	2.85	20.35	C320C331J2G5TA
		470pF	2.54	5.08	6.60	3.18	399-4301-ND	.39	2.85	20.35	C320C471J2G5TA
		680pF	2.54	5.08	6.60	3.18	399-4312-ND	.42	3.08	22.03	C320C681J2G5TA
		1000pF	2.54	5.08	6.60	3.18	399-4258-ND	.40	2.97	21.20	C320C102J2G5TA
		1500pF	2.54	5.08	6.60	3.18	399-4270-ND	.45	3.30	23.58	C320C152J2G5TA
		2200pF	2.54	5.08	6.60	3.18	399-4282-ND	.45	3.30	23.58	C320C222J2G5TA
		3300pF	2.54	5.08	6.60	3.18	399-4293-ND	.55	4.07	29.05	C320C332J2G5TA
X7R ±10%	50	.015µF	2.54	5.08	6.60	3.18	399-4274-ND	.21	1.57	11.20	C320C153K5R5TA
		.022µF	2.54	5.08	6.60	3.18	399-4286-ND	.23	1.69	12.05	C320C223K5R5TA
		.033µF	2.54	5.08	6.60	3.18	399-4296-ND	.23	1.69	12.05	C320C333K5R5TA
		.047µF	2.54	5.08	6.60	3.18	399-4306-ND	.26	1.92	13.73	C320C473K5R5TA
		.068µF	2.54	5.08	6.60	3.18	399-4316-ND	.26	1.92	13.73	C320C683K5R5TA
		.1µF	2.54	5.08	6.60	3.18	399-4264-ND	.21	1.57	11.20	C320C104K5R5TA
		.15µF	2.54	5.08	6.60	3.18	399-4276-ND	.37	2.71	19.33	C320C154K5R5TA
		.22µF	2.54	5.08	6.60	3.18	399-4288-ND	.53	3.92	28.00	C320C224K5R5TA
	100	4700pF	2.54	5.08	6.60	3.18	399-4303-ND	.21	1.58	11.30	C320C472K1R5TA
		6800pF	2.54	5.08	6.60	3.18	399-4313-ND	.21	1.58	11.30	C320C682K1R5TA
		.015µF	2.54	5.08	6.60	3.18	399-4272-ND	.24	1.74	12.43	C320C153K1R5TA
		.022µF	2.54	5.08	6.60	3.18	399-4284-ND	.27	2.02	14.40	C320C223K1R5TA
		.033µF	2.54	5.08	6.60	3.18	399-4295-ND	.27	2.02	14.40	C320C333K1R5TA
		.047µF	2.54	5.08	6.60	3.18	399-4305-ND	.34	2.49	17.80	C320C473K1R5TA
		.01µF	2.54	5.08	6.60	3.18	399-4260-ND	.19	1.42	10.18	C320C103K1R5TA
		.068µF	2.54	5.08	6.60	3.18	399-4315-ND	.34	2.49	17.80	C320C683K1R5TA
		.1µF	2.54	5.08	6.60	3.18	399-4263-ND	.34	2.49	17.80	C320C104K1R5TA
	200	1000pF	2.54	5.08	6.60	3.18	399-4259-ND	.23	1.69	12.08	C320C102K2R5TA
		1500pF	2.54	5.08	6.60	3.18	399-4271-ND	.25	1.85	13.23	C320C152K2R5TA

(Continued)

Ceramic Conformally Coated Radial Leaded Capacitors "GOLDEN MAX" *(Cont.)*

Dielec-tric	VDC	Cap.	Dimensions – mm				Digi-Key Part No.	Pricing			Kemet Part No.
			S	Max. L	Max. H	Max. T		1	10	100	
X7R ±10%	200	2200pF	2.54	5.08	6.60	3.18	399-4283-ND	.25	1.85	13.23	C320C222K2R5TA
		3300pF	2.54	5.08	6.60	3.18	399-4294-ND	.25	1.85	13.23	C320C332K2R5TA
		4700pF	2.54	5.08	6.60	3.18	399-4304-ND	.27	2.01	14.38	C320C472K2R5TA
		6800pF	2.54	5.08	6.60	3.18	399-4314-ND	.27	2.01	14.38	C320C682K2R5TA
		.01µF	2.54	5.08	6.60	3.18	399-4261-ND	.25	1.85	13.23	C320C103K2R5TA
		.015µF	2.54	5.08	6.60	3.18	399-4273-ND	.31	2.30	16.40	C320C153K2R5TA
		. 022µF	2.54	5.08	6.60	3.18	399-4285-ND	.31	2.30	16.40	C320C223K2R5TA
X7R ±20%	500	.01µF	2.54	5.08	6.60	3.18	399-3504-ND	.86	6.35	45.38	C320C103MCR5TA
Z5U ±20%	50	.033µF	2.54	5.08	6.60	3.18	399-4298-ND	.18	1.33	9.50	C320C333M5U5TA
		.047µF	2.54	5.08	6.60	3.18	399-4308-ND	.18	1.33	9.50	C320C473M5U5TA
		.068µF	2.54	5.08	6.60	3.18	399-4318-ND	.20	1.49	10.65	C320C683M5U5TA
		.1µF	2.54	5.08	6.60	3.18	399-4266-ND	.16	1.21	8.63	C320C104M5U5TA
		.15µF	2.54	5.08	6.60	3.18	399-4278-ND	.24	1.73	12.38	C320C154M5U5TA
		.22µF	2.54	5.08	6.60	3.18	399-4289-ND	.32	2.33	16.68	C320C224M5U5TA
		.33µF	2.54	5.08	6.60	3.18	399-4299-ND	.32	2.33	16.68	C320C334M5U5TA
		.47µF	2.54	5.08	6.60	3.18	399-4309-ND	.40	2.94	21.00	C320C474M5U5TA
	100	.01µF	2.54	5.08	6.60	3.18	399-4262-ND	.17	1.25	8.93	C320C103M1U5TA
		.015µF	2.54	5.08	6.60	3.18	399-4275-ND	.21	1.53	10.93	C320C153M1U5TA
		.022µF	2.54	5.08	6.60	3.18	399-4287-ND	.21	1.53	10.93	C320C223M1U5TA
		.033µF	2.54	5.08	6.60	3.18	399-4297-ND	.24	1.73	12.38	C320C333M1U5TA
		.047µF	2.54	5.08	6.60	3.18	399-4307-ND	.24	1.73	12.38	C320C473M1U5TA
		.068µF	2.54	5.08	6.60	3.18	399-4317-ND	.28	2.05	14.68	C320C683M1U5TA
		.1µF	2.54	5.08	6.60	3.18	399-4265-ND	.21	1.53	10.93	C320C104M1U5TA
		.15µF	2.54	5.08	6.60	3.18	399-4277-ND	.38	2.78	19.85	C320C154M1U5TA
C322 Series											
X7R ±10%	50	.033µF	5.08	5.08	6.60	3.18	399-2078-ND	.17	1.45	11.33	C322C333K5R5CA
	200	6800pF	5.08	5.08	6.60	3.18	399-2062-ND	.27	2.01	14.38	C322C682K2R5CA
Z5U ±20%	100	.022µF	5.08	5.08	6.60	3.18	399-2162-ND	.21	1.53	10.93	C322C223M1U5CA
C322 Series — RoHS Compliant											
C0G ±5%	100	680pF	5.08	5.08	6.60	3.18	399-4376-ND	.39	2.85	20.35	C322C681J1G5TA
		1000pF	5.08	5.08	6.60	3.18	399-4321-ND	.31	2.29	16.38	C322C102J1G5TA
		1500pF	5.08	5.08	6.60	3.18	399-4334-ND	.39	2.90	20.70	C322C152J1G5TA
		2200pF	5.08	5.08	6.60	3.18	399-4346-ND	.39	2.90	20.70	C322C222J1G5TA
		3300pF	5.08	5.08	6.60	3.18	399-4357-ND	.45	3.30	23.58	C322C332J1G5TA
		4700pF	5.08	5.08	6.60	3.18	399-4367-ND	.48	3.54	25.30	C322C472J1G5TA
COG ±5%	200	10pF	5.08	5.08	6.60	3.18	399-4319-ND	.27	1.96	14.00	C322C100J2G5TA
		15pF	5.08	5.08	6.60	3.18	399-4332-ND	.29	2.12	15.13	C322C150J2G5TA
		22pF	5.08	5.08	6.60	3.18	399-4344-ND	.29	2.12	15.13	C322C220J2G5TA
		33pF	5.08	5.08	6.60	3.18	399-4355-ND	.29	2.12	15.13	C322C330J2G5TA
		47pF	5.08	5.08	6.60	3.18	399-4365-ND	.29	2.12	15.13	C322C470J2G5TA
		68pF	5.08	5.08	6.60	3.18	399-4375-ND	.30	2.23	15.95	C322C680J2G5TA
		100pF	5.08	5.08	6.60	3.18	399-4320-ND	.29	2.12	15.13	C322C101J2G5TA
		150pF	5.08	5.08	6.60	3.18	399-4333-ND	.32	2.37	16.95	C322C151J2G5TA
		220pF	5.08	5.08	6.60	3.18	399-4345-ND	.32	2.37	16.95	C322C221J2G5TA
		330pF	5.08	5.08	6.60	3.18	399-4356-ND	.39	2.85	20.35	C322C331J2G5TA
		470pF	5.08	5.08	6.60	3.18	399-4366-ND	.39	2.85	20.35	C322C471J2G5TA
		680pF	5.08	5.08	6.60	3.18	399-4377-ND	.42	3.08	22.03	C322C681J2G5TA
		1000pF	5.08	5.08	6.60	3.18	399-4322-ND	.40	2.97	21.20	C322C102J2G5TA
		1500pF	5.08	5.08	6.60	3.18	399-4335-ND	.45	3.30	23.58	C322C152J2G5TA
		2200pF	5.08	5.08	6.60	3.18	399-4347-ND	.45	3.30	23.58	C322C222J2G5TA
		3300pF	5.08	5.08	6.60	3.18	399-4358-ND	.55	4.07	29.05	C322C332J2G5TA
	500	100pF	5.08	5.08	6.60	3.18	399-5100-ND	1.94	14.32	102.25	C322C101JCG5TA
	1000	470pF	5.08	5.08	6.60	3.18	399-5101-ND	2.20	16.21	115.75	C322C471JDG5TA
X7R ±5%	1000	.01µF	5.08	5.08	6.60	3.18	399-5098-ND	1.26	9.31	66.53	C322C103JDR5TA
X7R ±10%	50	.01µF	5.08	5.08	6.60	3.18	399-4326-ND	.18	1.30	9.25	C322C103K5R5TA
		.015µF	5.08	5.08	6.60	3.18	399-4339-ND	.21	1.57	11.20	C322C153K5R5TA
		.022µF	5.08	5.08	6.60	3.18	399-4351-ND	.23	1.69	12.05	C322C223K5R5TA
		.033µF	5.08	5.08	6.60	3.18	399-4361-ND	.23	1.69	12.05	C322C333K5R5TA
		.047µF	5.08	5.08	6.60	3.18	399-4371-ND	.26	1.92	13.73	C322C473K5R5TA
		.068µF	5.08	5.08	6.60	3.18	399-4381-ND	.26	1.92	13.73	C322C683K5R5TA
		.1µF	5.08	5.08	6.60	3.18	399-4329-ND	.21	1.57	11.20	C322C104K5R5TA
		.15µF	5.08	5.08	6.60	3.18	399-4341-ND	.37	2.71	19.33	C322C154K5R5TA
		.22µF	5.08	5.08	6.60	3.18	399-4353-ND	.53	3.92	28.00	C322C224K5R5TA
	100	4700pF	5.08	5.08	6.60	3.18	399-4368-ND	.21	1.58	11.30	C322C472K1R5TA
		6800pF	5.08	5.08	6.60	3.18	399-4378-ND	.21	1.58	11.30	C322C682K1R5TA
		.01µF	5.08	5.08	6.60	3.18	399-4324-ND	.19	1.42	10.18	C322C103K1R5TA
		.015µF	5.08	5.08	6.60	3.18	399-4337-ND	.24	1.74	12.43	C322C153K1R5TA
		.022µF	5.08	5.08	6.60	3.18	399-4349-ND	.27	2.02	14.40	C322C223K1R5TA
		.033µF	5.08	5.08	6.60	3.18	399-4360-ND	.27	2.02	14.40	C322C333K1R5TA
		.047µF	5.08	5.08	6.60	3.18	399-4370-ND	.34	2.49	17.80	C322C473K1R5TA
		.068µF	5.08	5.08	6.60	3.18	399-4380-ND	.34	2.49	17.80	C322C683K1R5TA
		.1µF	5.08	5.08	6.60	3.18	399-4328-ND	.34	2.49	17.80	C322C104K1R5TA
	200	1000pF	5.08	5.08	6.60	3.18	399-4323-ND	.23	1.69	12.08	C322C102K2R5TA
		1500pF	5.08	5.08	6.60	3.18	399-4336-ND	.25	1.85	13.23	C322C152K2R5TA
		2200pF	5.08	5.08	6.60	3.18	399-4348-ND	.25	1.85	13.23	C322C222K2R5TA
		3300pF	5.08	5.08	6.60	3.18	399-4359-ND	.25	1.85	13.23	C322C332K2R5TA
		4700pF	5.08	5.08	6.60	3.18	399-4369-ND	.27	2.01	14.38	C322C472K2R5TA
		6800pF	5.08	5.08	6.60	3.18	399-4379-ND	.27	2.01	14.38	C322C682K2R5TA
		.01µF	5.08	5.08	6.60	3.18	399-4325-ND	.25	1.85	13.23	C322C103K2R5TA
		.015µF	5.08	5.08	6.60	3.18	399-4338-ND	.31	2.30	16.40	C322C153K2R5TA
		.022µF	5.08	5.08	6.60	3.18	399-4350-ND	.31	2.30	16.40	C322C223K2R5TA
	500	.047µF	5.08	5.08	6.60	3.18	399-5097-ND	1.66	12.25	87.50	C322C473KCR5TA
	1500	1000pF	5.08	5.08	6.60	3.18	399-5099-ND	1.49	11.01	78.65	C322C102KFR5TA
Z5U ±20%	50	.033µF	5.08	5.08	6.60	3.18	399-4363-ND	.18	1.33	9.50	C322C333M5U5TA
		.047µF	5.08	5.08	6.60	3.18	399-4373-ND	.18	1.33	9.50	C322C473M5U5TA
		.068µF	5.08	5.08	6.60	3.18	399-4383-ND	.20	1.49	10.65	C322C683M5U5TA
		.1µF	5.08	5.08	6.60	3.18	399-4331-ND	.16	1.21	8.63	C322C104M5U5TA
		.15µF	5.08	5.08	6.60	3.18	399-4343-ND	.24	1.73	12.38	C322C154M5U5TA
		.22µF	5.08	5.08	6.60	3.18	399-4354-ND	.32	2.33	16.68	C322C224M5U5TA
		.33µF	5.08	5.08	6.60	3.18	399-4364-ND	.32	2.33	16.68	C322C334M5U5TA
		.47µF	5.08	5.08	6.60	3.18	399-4374-ND	.40	2.94	21.00	C322C474M5U5TA
	100	.01µF	5.08	5.08	6.60	3.18	399-4327-ND	.17	1.25	8.93	C322C103M1U5TA
		.015µF	5.08	5.08	6.60	3.18	399-4340-ND	.21	1.53	10.93	C322C153M1U5TA
Z5U ±20%	100	.022µF	5.08	5.08	6.60	3.18	399-4352-ND	.21	1.53	10.93	C322C223M1U5TA
		.033µF	5.08	5.08	6.60	3.18	399-4362-ND	.24	1.73	12.38	C322C333M1U5TA
		.047µF	5.08	5.08	6.60	3.18	399-4372-ND	.24	1.73	12.38	C322C473M1U5TA
		.068µF	5.08	5.08	6.60	3.18	399-4382-ND	.28	2.05	14.68	C322C683M1U5TA
		.1µF	5.08	5.08	6.60	3.18	399-4330-ND	.21	1.53	10.93	C322C104M1U5TA
		.15µF	5.08	5.08	6.60	3.18	399-4342-ND	.38	2.78	19.85	C322C154M1U5TA
C323 Series — RoHS Compliant											
X7R ±10%	500	.01µF	5.08	5.08	8.13	3.18	399-3505-ND	.92	6.76	48.28	C323C103KCR5TA
X7R ±20%	500	.01µF	5.08	5.08	8.13	3.18	399-3506-ND	.86	6.35	45.38	C323C103MCR5TA
C330 Series											
C0G ±5%	100	4700pF	5.08	7.62	9.14	3.81	399-1974-ND	.84	6.16	44.00	C330C472J1G5CA
C330 Series — RoHS Compliant											
COG ±5%	100	3300pF	5.08	7.62	9.14	3.81	399-4404-ND	.84	6.16	44.00	C330C332J1G5TA
		4700pF	5.08	7.62	9.14	3.81	399-4411-ND	.84	6.16	44.00	C330C472J1G5TA
		6800pF	5.08	7.62	9.14	3.81	399-4419-ND	.91	6.68	47.73	C330C682J1G5TA
		.01µF	5.08	7.62	9.14	3.81	399-4384-ND	1.11	8.21	58.65	C330C103J1G5TA
		.015µF	5.08	7.62	9.14	3.81	399-4391-ND	1.41	10.38	74.18	C330C153J1G5TA
	200	.022µF	5.08	7.62	9.14	3.81	399-4398-ND	2.10	15.46	110.40	C330C223J1G5TA
		3300pF	5.08	7.62	9.14	3.81	399-4405-ND	.94	6.92	49.45	C330C332J2G5TA
		4700pF	5.08	7.62	9.14	3.81	399-4412-ND	.94	6.92	49.45	C330C472J2G5TA
		6800pF	5.08	7.62	9.14	3.81	399-4420-ND	1.33	9.78	69.88	C330C682J2G5TA
		.01µF	5.08	7.62	9.14	3.81	399-4385-ND	1.26	9.30	66.43	C330C103J2G5TA
		.015µF	5.08	7.62	9.14	3.81	399-4392-ND	2.49	18.32	130.83	C330C153J2G5TA
	1000	1000pF	5.08	7.62	9.14	3.81	399-5095-ND	2.86	21.07	150.48	C330C102JDG5TA
	3000	100pF	5.08	7.62	9.14	3.81	399-5096-ND	3.19	23.53	168.05	C330C101JHG5TA
X7R ±5%	3000	1000pF	5.08	7.62	9.14	3.81	399-5094-ND	3.01	22.16	158.30	C330C102JHR5TA
X7R ±10%	50	.15µF	5.08	7.62	9.14	3.81	399-4395-ND	.60	4.43	31.65	C330C154K5R5TA
		.22µF	5.08	7.62	9.14	3.81	399-4401-ND	.77	5.68	40.60	C330C224K5R5TA
		.33µF	5.08	7.62	9.14	3.81	399-4408-ND	.83	6.11	43.68	C330C334K5R5TA
		.47µF	5.08	7.62	9.14	3.81	399-4415-ND	.83	6.11	43.68	C330C474K5R5TA
		.68µF	5.08	7.62	9.14	3.81	399-4423-ND	1.73	12.74	91.00	C330C684K5R5TA
		1µF	5.08	7.62	9.14	3.81	399-4389-ND	1.40	10.31	73.65	C330C105K5R5TA
	100	.068µF	5.08	7.62	9.14	3.81	399-4421-ND	.46	3.36	24.03	C330C683K1R5TA
		.1µF	5.08	7.62	9.14	3.81	399-4386-ND	.40	2.97	21.20	C330C104K1R5TA
		.15µF	5.08	7.62	9.14	3.81	399-4394-ND	.62	4.59	32.78	C330C154K1R5TA
		.22µF	5.08	7.62	9.14	3.81	399-4400-ND	.91	6.72	48.03	C330C224K1R5TA
		.33µF	5.08	7.62	9.14	3.81	399-4407-ND	1.13	8.34	59.60	C330C334K1R5TA
		.47µF	5.08	7.62	9.14	3.81	399-4414-ND	1.74	12.86	91.83	C330C474K1R5TA
	200	.015µF	5.08	7.62	9.14	3.81	399-4393-ND	.46	3.42	24.45	C330C153K2R5TA
		.022µF	5.08	7.62	9.14	3.81	399-4399-ND	.46	3.42	24.45	C330C223K2R5TA
		.033µF	5.08	7.62	9.14	3.81	399-4406-ND	.46	3.42	24.45	C330C333K2R5TA
		.047µF	5.08	7.62	9.14	3.81	399-4413-ND	.46	3.42	24.45	C330C473K2R5TA
		.056µF	5.08	7.62	9.14	3.81	399-4418-ND	.46	3.42	24.45	C330C563K2R5TA
		.068µF	5.08	7.62	9.14	3.81	399-4422-ND	.63	4.63	33.08	C330C683K2R5TA
		.1µF	5.08	7.62	9.14	3.81	399-4387-ND	.96	7.05	50.33	C330C104K2R5TA
	500	.1µF	5.08	7.62	9.14	3.81	399-3507-ND	2.01	14.79	105.68	C330C104KCR5TA
		.12µF	5.08	7.62	9.14	3.81	399-3509-ND	3.01	22.19	158.50	C330C124KCR5TA
	2000	1000pF	5.08	7.62	9.14	3.81	399-5093-ND	2.06	15.17	108.38	C330C102KGR5TA
X7R ±20%	500	.1µF	5.08	7.62	9.14	3.81	399-3508-ND	1.89	13.91	99.33	C330C104MCR5TA
Z5U ±20%	50	.33µF	5.08	7.62	9.14	3.81	399-4410-ND	.52	3.83	27.33	C330C334M5U5TA
		.47µF	5.08	7.62	9.14	3.81	399-4417-ND	.52	3.83	27.33	C330C474M5U5TA
		.68µF	5.08	7.62	9.14	3.81	399-4424-ND	.72	5.27	37.68	C330C684M5U5TA
		1µF	5.08	7.62	9.14	3.81	399-4390-ND	.65	4.79	34.23	C330C105M5U5TA
		1.5µF	5.08	7.62	9.14	3.81	399-4397-ND	1.06	7.81	55.78	C330C155M5U5TA
		2.2µF	5.08	7.62	9.14	3.81	399-4403-ND	1.11	8.19	58.50	C330C225M5U5TA
	100	.1µF	5.08	7.62	9.14	3.81	399-4388-ND	.41	3.02	21.58	C330C104M1U5TA
		.15µF	5.08	7.62	9.14	3.81	399-4396-ND	.48	3.54	25.30	C330C154M1U5TA
		.22µF	5.08	7.62	9.14	3.81	399-4402-ND	.55	4.03	28.75	C330C224M1U5TA
		.33µF	5.08	7.62	9.14	3.81	399-4409-ND	.55	4.03	28.75	C330C334M1U5TA
		.47µF	5.08	7.62	9.14	3.81	399-4416-ND	.66	4.83	34.50	C330C474M1U5TA
C340 Series — RoHS Compliant											
C0G ±5%	100	.033µF	5.08	10.16	11.68	3.81	399-4435-ND	4.53	33.39	238.50	C340C333J1G5TA
		.047µF	5.08	10.16	11.68	3.81	399-4438-ND	5.06	37.25	266.10	C340C473J1G5TA
		.068µF	5.08	10.16	11.68	3.81	399-4443-ND	5.67	41.75	298.20	C340C683J1G5TA
	200	.022µF	5.08	10.16	11.68	3.81	399-4431-ND	4.53	33.39	238.50	C340C223J2G5TA
		.033µF	5.08	10.16	11.68	3.81	399-4436-ND	5.06	37.25	266.10	C340C333J2G5TA
		.047µF	5.	10.16	11.68	3.81	399-4439-ND	5.67	41.75	298.20	C340C473J2G5TA
X7R ±10%	50	1.5µF	5.08	10.16	11.68	3.81	399-4429-ND	3.55	26.16	186.88	C340C155K5R5TA
		2.2µF	5.08	10.16	11.68	3.81	399-4433-ND	4.44	32.73	233.75	C340C225K5R5TA
	100	.47µF	5.08	10.16	11.68	3.81	399-4440-ND	1.85	13.65	97.50	C340C474K1R5TA
		.68µF	5.08	10.16	11.68	3.81	399-4444-ND	4.63	34.15	243.90	C340C684K1R5TA
		1µF	5.08	10.16	11.68	3.81	399-4426-ND	4.63	34.15	243.90	C340C105K1R5TA
	200	.1µF	5.08	10.16	11.68	3.81	399-4425-ND	1.00	7.35	52.50	C340C104K2R5TA
		.15µF	5.08	10.16	11.68	3.81	399-4428-ND	4.13	30.45	217.50	C340C154K2R5TA
		.22µF	5.08	10.16	11.68	3.81	399-4432-ND	4.63	34.15	243.90	C340C224K2R5TA
X7R ±20%	500	.22µF	5.08	10.16	11.68	3.81	399-3510-ND	7.60	55.97	399.75	C340C224MCR5TA
Z5U ±20%	50	2.2µF	5.08	10.16	11.68	3.81	399-4434-ND	3.17	23.35	166.75	C340C225M5U5TA
		3.3µF	5.08	10.16	11.68	3.81	399-4437-ND	3.96	29.18	208.45	C340C335M5U5TA
		4.7µF	5.08	10.16	11.68	3.81	399-4442-ND	4.78	35.22	251.58	C340C475M5U5TA
	100	.47µF	5.08	10.16	11.68	3.81	399-4441-ND	.66	4.83	34.50	C340C474M1U5TA
		.68µF	5.08	10.16	11.68	3.81	399-4445-ND	1.78	13.08	93.45	C340C684M1U5TA
		1µF	5.08	10.16	11.68	3.81	399-4427-ND	3.14	23.15	165.33	C340C105M1U5TA
		1.5µF	5.08	10.16	11.68	3.81	399-4430-ND	3.82	28.18	201.25	C340C155M1U5TA
C350 Series — RoHS Compliant											
X7R ±10%	500	.1µF	10.16	12.70	14.22	5.08	399-3511-ND	9.72	71.65	511.75	C350C104KCR5TA
		.22µF	10.16	12.70	14.22	5.08	399-3513-ND	13.36	98.46	703.25	C350C224KCR5TA
		.56µF	10.16	12.70	14.22	5.08	399-3516-ND	16.56	121.99	871.35	C350C564KCR5TA
	1000	.22µF	10.16	12.70	14.22	5.08	399-3514-ND	14.16	104.36	745.45	C350C224KDR5TA
X7R ±20%	500	.1µF	10.16	12.70	14.22	5.08	399-3512-ND	9.14	67.35	481.05	C350C104MCR5TA
		.39µF	10.16	12.70	14.22	5.08	399-3515-ND	14.02	103.31	737.90	C350C394MCR5TA
		.56µF	10.16	12.70	14.22	5.08	399-3517-ND	15.56	114.67	819.08	C350C564MCR5TA

Capacitor Kit

399-5086-ND (Kemet Part No. CER ENG KIT 08) — ***RoHS Compliant***
High Voltage Capacitor Kit, 400 total pieces (See Digi-Key website for values included) **$50.00**

Panasonic Interference Suppressor Capacitors X-Y Series-Metallized Film

ECQ - UN, EW, UF

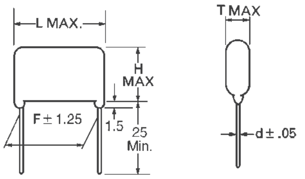

ECQ - UV, UG, UL

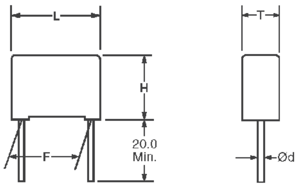

Electrical Specifications:

- **Operating Temperature Range:** -40°C ~ 85°C (-40°C ~ 100°C for ECQ-UG/UL)
- **Capacitance Tolerance:** ±20% (M)
- **Dissipation Factor:** Less than 1.0% (at 20°C 1 kHz)

ECQ-UN Series: **Rated Voltage:** 250VAC. **Standards: UL (UL 1414);** Across-The-Line Capacitor, Antenna Coupling and Line-By-Pass Capacitors. File No. E62674. **CSA (CSA C22.2);** No. 0-M1982, No. 1-M1981. Across-The-Line, antenna-isolation and line-by-pass capacitor. File No. LR35752. **VDE (VED0565-1);** class X2 File No. 4811.6-4670-1041. **SEV (SEV1055);** class X, Ref No. 89, 5 50251,05. **DEMKO (AFSNIT21);** class X2, Ref No. 70726EC. **SEMKO (SS4430414);** class X2 Reg No. 8602146. **NEMKO (NEMKO);** class X2 Ref No. E 25082 02. **EI (E384-14);** class X2, Reg No. 062521 01~14(0.001~0.012µF), Reg No. 062522 01~15(0.015~0.22µF).

ECQ-EW Series: **Rated Voltage:** 250VAC. **Standards: UL (UL 1283);** Electromagnetic Interference Filters Class X File No. E79502. **SEMKO (SS 443 04 14);** class X2 Reg No. 8932009. **DEMKO (AFSNIT21);** class X2 Ref No. 94911EC. **VDE (VDE0565-1);** class X2 File No. 4811. 6-4670-1035.

ECQ-UF Series: **Rated Voltage:** 250VAC **Standards: SEMKO (SEMKO 101)** Reg. No. 61-88271/1-4. **DEMKO (AFSNIT 21);** class Y/X, Ref No. 61254EC. **VDE (VDE 0565-1)** class Y/X2, File No. 4811-6-1-4670-1032. **BSI (BS415);** certified No. 6026. **UL (UL1414)** Across-The-Line Capacitor & Antenna-Coupling and Line-by-pass. File No. E62674. **CSA (CSA C22.2)** No. 0-M1982, No.1-M1981, Across-The-Line, Antenna-Isolation and LIne-by-Pass Capacitor, File No. LR35752.

ECQ-UV Series: **Rated Voltage:** 250VAC **Standards: UL (UL1414);** Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. File No. E62674. **(UL1283);** Electromagnetic Interference Filters, File No. E79502. **CSA (CSA C22.2);** Across-The-Line, Antenna-Isolation and Line-by-Pass Capacitor, No. 0-M1982, No. 1-M1981. **SEMKO (SS 443 04 14);** class X2/Y Reg No. 8804123. **DEMKO (AFSNIT21);** class X2/Y Ref No. 89275EC. **NEMKO (NEMKO 132);** class X2 Ref No. 37892, class Y Ref No. 37894. **EI (IEC 384/14);** class X2/Y Reg No. 110918-01-02. **VDE (VDE 0565-1);** class X2/Y File No. 4811.6-4670-1070. **SEV (SEV 1055);** class X ref No. 88,1 00318,01.

ECQ-UG — Class X2 Series: **Rated Voltage:** 250/275VAC **Standards: UL (UL1414);** Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. 1-94);** Across-The-Line Capacitors. Antenna-Isolation and Line-by-Pass Capacitors. **SEMKO, DEMKO, NEMKO, FIMCO, VDE, SEV;** IEC384-14, 1993, EN132400, Class X2.

ECQ-UG — Class X1 Series: **Rated Voltage:** 250/300VAC **Standards: UL (UL1414);** Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. 1-94);** Across-The-Line Capacitors. Antenna-Isolation and Line-by-Pass Capacitors. **FIMCO and VDE;** IEC384-14, 1993, A1 - 1995, EN132400, Class X1.

ECQ-UL Series: **Rated Voltage:** 250/275VAC **Standards: UL (UL1414);** Across-The-Line Capacitors. Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. 1-94);** Across-The-Line Capacitors., Antenna-Isolation and Line-by-Pass Capacitors. **VDE;** IEC384-14, 1993, EN132400, Class X2.

Volt-age (VAC)	Cap. (µF)	Dimensions (mm) L	T	H	F	dø	Digi-Key Part No.	Pricing 1	10	100	Panasonic Part No.
ECQ-UN — RoHS Compliant											
250	0.0047	17.0	6.5	13.5	13.5	0.6	P4600-ND†	.93	7.98	66.50	ECQ-U2A472MN
	0.01	17.0	7.0	14.0	13.5	0.6	P4601-ND†	.93	7.98	66.50	ECQ-U2A103MN
	0.047	25.5	7.0	14.0	21.5	0.6	P4602-ND†	1.18	10.08	84.00	ECQ-U2A473MN
	0.1	30.5	7.5	17.01	26.5	0.8	P4603-ND†	1.44	12.36	103.00	ECQ-U2A104MN
ECQ-EW — RoHS Compliant											
250	0.047	17.0	7.5	13.0	13.5	0.6	P4604-ND†	.79	6.81	56.75	ECQ-E2A473MW
	0.1	24.0	8.0	13.5	20.5	0.8	P4605-ND†	.95	8.10	67.50	ECQ-E2A104MW
	0.22	24.0	10.5	17.5	20.5	0.8	P4606-ND†	1.34	11.49	95.75	ECQ-E2A224MW
	0.47	29.0	13.0	20.5	25.5	0.8	P4607-ND†	1.79	15.33	127.75	ECQ-E2A474MW
ECQ-UF — RoHS Compliant											
250	0.0047	20.0	7.0	14.5	16.5	0.6	P4608-ND†	.90	7.74	64.50	ECQ-U2A472MF
	0.01	23.0	7.5	15.0	19.5	0.6	P4609-ND†	.95	8.10	67.50	ECQ-U2A103MF
ECQ-UV											
250	0.001	17.5	4.0	10.5	15.0	0.6	P4617-ND◆	.76	6.56	54.63	ECQ-U2A102MV
	0.0012	17.5	4.0	10.5	15.0	0.6	P4618-ND◆	.76	6.56	54.63	ECQ-U2A122MV
	0.0015	17.5	4.0	10.5	15.0	0.6	P4619-ND	.76	6.56	54.63	ECQ-U2A152MV
	0.0018	17.5	4.0	10.5	15.0	0.6	P4620-ND◆	.76	6.56	54.63	ECQ-U2A182MV
	0.0022	17.5	4.0	10.5	15.0	0.6	P4621-ND◆	.76	6.56	54.63	ECQ-U2A222MV
	0.0027	17.5	4.0	10.5	15.0	0.6	P4622-ND◆	.76	6.56	54.63	ECQ-U2A272MV
	0.0033	17.5	4.0	10.5	15.0	0.6	P4623-ND◆	.76	6.56	54.63	ECQ-U2A332MV
	0.0039	17.5	4.0	10.5	15.0	0.6	P4624-ND◆	.76	6.56	54.63	ECQ-U2A392MV
	0.0047	17.5	4.0	10.5	15.0	0.6	P4625-ND◆	.76	6.56	54.63	ECQ-U2A472MV
	0.0056	17.5	4.0	10.5	15.0	0.6	P4626-ND◆	.76	6.56	54.63	ECQ-U2A562MV
	0.0068	17.5	4.0	10.5	15.0	0.6	P4627-ND◆	.76	6.56	54.63	ECQ-U2A682MV
	0.0082	17.5	4.0	10.5	15.0	0.6	P4628-ND◆	.76	6.56	54.63	ECQ-U2A822MV
	0.01	17.5	4.0	10.5	15.0	0.6	P4629-ND◆	.76	6.56	54.63	ECQ-U2A103MV
	0.012	17.5	4.0	10.5	15.0	0.6	P4630-ND	.76	6.56	54.63	ECQ-U2A123MV
	0.015	17.5	4.0	10.5	15.0	0.6	P4631-ND◆	.76	6.56	54.63	ECQ-U2A153MV
	0.018	17.5	4.5	10.5	15.0	0.6	P4632-ND◆	.76	6.56	54.63	ECQ-U2A183MV
	0.022	17.5	4.5	10.5	15.0	0.6	P4633-ND◆	.76	6.56	54.63	ECQ-U2A223MV
	0.027	17.5	4.5	13.0	15.0	0.6	P4634-ND◆	.76	6.56	54.63	ECQ-U2A273MV
	0.033	17.5	4.5	13.0	15.0	0.6	P4635-ND◆	.76	6.56	54.63	ECQ-U2A333MV
	0.039	17.5	5.5	12.5	15.0	0.6	P4636-ND◆	.76	6.56	54.63	ECQ-U2A393MV
	0.047	17.5	5.5	12.5	15.0	0.6	P4637-ND◆	.90	7.70	64.13	ECQ-U2A473MV
	0.056	17.5	7.0	14.0	15.0	0.6	P4638-ND◆	.78	6.70	55.85	ECQ-U2A563MV
	0.068	17.5	7.0	14.0	15.0	0.6	P4639-ND◆	.78	6.70	55.85	ECQ-U2A683MV
	0.082	17.5	8.0	15.0	15.0	0.6	P4640-ND	.78	6.70	55.85	ECQ-U2A823MV
	0.1	17.5	8.0	15.0	15.0	0.8	P4610-ND◆	.78	6.70	55.85	ECQ-U2A104MV
	0.12	25.5	6.5	16.5	22.5	0.6	P4641-ND	1.13	9.69	80.78	ECQ-U2A124MV
	0.15	25.5	6.5	16.5	22.5	0.8	P4611-ND◆	1.18	10.13	84.40	ECQ-U2A154MV
	0.18	25.5	8.5	17.0	22.5	0.6	P4642-ND	1.18	10.13	84.40	ECQ-U2A184MV
	0.22	25.5	8.5	17.0	22.5	0.8	P4612-ND◆	1.28	10.94	91.15	ECQ-U2A224MV
	0.27	30.5	10.0	18.0	27.5	0.6	P4643-ND◆	1.79	15.32	127.65	ECQ-U2A274MV
	0.33	30.5	10.0	18.0	27.5	0.8	P4613-ND◆	1.79	15.38	128.18	ECQ-U2A334MV
	0.39	30.5	12.0	20.0	27.5	0.6	P4644-ND	1.79	15.38	128.18	ECQ-U2A394MV
	0.47	30.5	12.0	20.0	27.5	0.8	P4614-ND◆	2.00	17.11	142.60	ECQ-U2A474MV
	0.56	30.5	13.5	23.5	27.5	0.6	P4645-ND	2.07	17.70	147.50	ECQ-U2A564MV
	0.68	30.5	13.5	23.5	27.5	0.8	P4615-ND◆	2.36	20.22	168.48	ECQ-U2A684MV
	0.82	30.5	16.5	26.5	27.5	0.6	P4646-ND◆	2.66	22.77	189.75	ECQ-U2A824MV
	1.0	30.5	16.5	26.5	27.5	0.8	P4616-ND◆	2.75	23.60	196.63	ECQ-U2A105MV
ECQ-UG — Class X2											
250/275	0.033	15.0	6.0	13.0	12.5	0.60	P10520-ND◆	.94	8.07	63.22	ECQ-U2A333MG
	0.047	15.0	6.0	13.0	12.5	0.60	P10521-ND◆	.97	8.34	65.33	ECQ-U2A473MG
	0.068	15.0	8.0	15.0	12.5	0.60	P10522-ND◆	1.07	9.18	71.91	ECQ-U2A683MG
	0.1	15.0	8.0	16.5	12.5	0.60	P10523-ND◆	1.07	9.21	72.15	ECQ-U2A104MG
	0.1	17.5	6.0	15.0	15.0	0.80	P10524-ND	.91	7.76	60.80	ECQ-U2A104BC1
250/275	0.15	17.5	8.0	16.5	15.0	0.80	P10525-ND◆	1.34	11.46	89.77	ECQ-U2A154MG
	0.22	17.5	9.0	17.5	15.0	0.80	P10526-ND◆	1.39	11.88	93.06	ECQ-U2A224MG
	0.33	25.5	9.0	18.5	22.5	0.80	P10527-ND◆	2.30	19.68	154.16	ECQ-U2A334MG
	0.47	25.5	10.5	20.0	22.5	0.80	P10528-ND◆	2.35	20.10	157.45	ECQ-U2A474MG
	0.68	25.5	12.5	22.0	22.5	0.80	P10529-ND◆	3.19	27.36	214.32	ECQ-U2A684MG
	1.0	25.5	15.5	24.5	22.5	0.80	P10530-ND◆	3.55	30.45	238.53	ECQ-U2A105MG
ECQ-UG — Class X1											
250/300	0.01	15.0	5.0	11.5	12.5	0.60	P11110-ND◆	.37	3.18	24.91	ECQ-U3A103MG
	0.015	15.0	5.0	11.5	12.5	0.60	P11111-ND◆	.37	3.18	24.91	ECQ-U3A153MG
	0.022	15.0	5.0	11.5	12.5	0.60	P11112-ND◆	.37	3.18	24.91	ECQ-U3A223MG
	0.033	15.0	6.0	13.0	12.5	0.60	P11113-ND◆	.37	3.18	24.91	ECQ-U3A333MG
	0.047	15.0	6.0	13.0	12.5	0.60	P11114-ND◆	.37	3.18	24.91	ECQ-U3A473MG
	0.068	15.0	8.0	15.0	12.5	0.60	P11115-ND◆	.37	3.18	24.91	ECQ-U3A683MG
	0.1	15.0	8.0	15.0	12.5	0.60	P11116-ND◆	.37	3.18	24.91	ECQ-U3A104MG
	0.15	17.5	8.0	16.5	15.0	0.80	P11117-ND◆	.51	4.38	34.31	ECQ-U3A154MG
	0.22	17.5	9.0	17.5	15.0	0.80	P11118-ND◆	.61	5.25	41.13	ECQ-U3A224MG
	0.33	25.5	9.0	18.5	22.5	0.80	P11119-ND◆	.92	7.86	61.57	ECQ-U3A334MG
	0.47	25.5	10.5	20.0	22.5	0.80	P11120-ND◆	1.22	10.47	82.02	ECQ-U3A474MG
	0.68	25.5	12.5	22.0	22.5	0.80	P11121-ND	1.63	13.95	109.28	ECQ-U3A684MG
	1.0	27.0	16.5	25.5	22.5	0.80	P11122-ND	2.03	17.43	136.54	ECQ-U3A105MG
ECQ-UL											
250/275	0.001	15.0	5.0	11.5	12.5	0.60	P10988-ND◆	.20	1.71	13.40	ECQ-U2A102ML
	0.0012	15.0	5.0	11.5	12.5	0.60	P10989-ND	.20	1.71	13.40	ECQ-U2A122ML
	0.0015	15.0	5.0	11.5	12.5	0.60	P10990-ND◆	.20	1.71	13.40	ECQ-U2A152ML
	0.0018	15.0	5.0	11.5	12.5	0.60	P10991-ND	.20	1.71	13.40	ECQ-U2A182ML
	0.0022	15.0	5.0	11.5	12.5	0.60	P10992-ND◆	.20	1.71	13.40	ECQ-U2A222ML
	0.0027	15.0	5.0	11.5	12.5	0.60	P10993-ND◆	.20	1.71	13.40	ECQ-U2A272ML
	0.0033	15.0	5.0	11.5	12.5	0.60	P10994-ND◆	.20	1.71	13.40	ECQ-U2A332ML
	0.0039	15.0	5.0	11.5	12.5	0.60	P10995-ND◆	.20	1.71	13.40	ECQ-U2A392ML
	0.0047	15.0	5.0	11.5	12.5	0.60	P10996-ND◆	.20	1.71	13.40	ECQ-U2A472ML
	0.0056	15.0	5.0	11.5	12.5	0.60	P10997-ND◆	.20	1.71	13.40	ECQ-U2A562ML
	0.0068	15.0	5.0	11.5	12.5	0.60	P10998-ND◆	.20	1.71	13.40	ECQ-U2A682ML
	0.0082	15.0	5.0	11.5	12.5	0.60	P10999-ND	.20	1.71	13.40	ECQ-U2A822ML
	0.01	15.0	5.0	11.5	12.5	0.60	P10724-ND◆	.20	1.71	13.40	ECQ-U2A103ML
	0.012	15.0	5.0	11.5	12.5	0.60	P11000-ND◆	.20	1.71	13.40	ECQ-U2A123ML
	0.015	15.0	5.0	11.5	12.5	0.60	P10725-ND	.20	1.71	13.40	ECQ-U2A153ML
	0.018	15.0	5.0	13.0	12.5	0.60	P11001-ND	.20	1.71	13.40	ECQ-U2A183ML
	0.022	15.0	5.0	11.5	12.5	0.60	P10726-ND◆	.20	1.71	13.40	ECQ-U2A223ML
	0.027	15.0	5.0	11.5	12.5	0.60	P11002-ND	.20	1.71	13.40	ECQ-U2A273ML
	0.033	15.0	6.0	13.0	12.5	0.60	P10727-ND◆	.20	1.71	13.40	ECQ-U2A333ML
	0.039	15.0	6.0	13.0	12.5	0.60	P11003-ND	.20	1.71	13.40	ECQ-U2A393ML
	0.047	15.0	6.0	13.0	12.5	0.60	P10728-ND◆	.20	1.71	13.40	ECQ-U2A473ML
	0.056	17.5	4.5	11.5	15.0	0.60	P11004-ND◆	.20	1.71	13.40	ECQ-U2A563ML
	0.068	17.5	4.5	11.5	15.0	0.60	P10729-ND◆	.20	1.71	13.40	ECQ-U2A683ML
	0.082	17.5	5.5	12.0	15.0	0.60	P11005-ND	.20	1.71	13.40	ECQ-U2A823ML
	0.1	17.5	5.5	12.0	15.0	0.60	P10730-ND◆	.20	1.71	13.40	ECQ-U2A104ML
	0.12	17.5	6.5	14.5	15.0	0.60	P11006-ND	.21	1.83	14.34	ECQ-U2A124ML
	0.15	17.5	6.5	14.5	15.0	0.60	P10731-ND◆	.23	1.98	15.51	ECQ-U2A154ML
	0.18	17.5	8.0	16.0	15.0	0.60	P11007-ND◆	.26	2.19	17.16	ECQ-U2A184ML
	0.22	17.5	8.0	16.0	15.0	0.60	P10732-ND◆	.28	2.40	18.80	ECQ-U2A224ML
	0.27	17.5	9.5	17.5	15.0	0.80	P11008-ND◆	.33	2.79	21.86	ECQ-U2A274ML
	0.33	17.5	9.5	17.5	15.0	0.80	P10733-ND◆	.37	3.18	24.91	ECQ-U2A334ML
	0.39	25.5	8.5	17.5	22.5	0.80	P11009-ND◆	.42	3.60	28.20	ECQ-U2A394ML
	0.47	25.5	8.5	17.5	22.5	0.80	P10734-ND◆	.47	3.99	31.26	ECQ-U2A474ML
	0.56	25.5	10.5	19.5	22.5	0.80	P11010-ND◆	.58	4.98	39.01	ECQ-U2A564ML
	0.68	25.5	10.5	19.5	22.5	0.80	P10735-ND◆	.69	5.88	46.06	ECQ-U2A684ML
	0.82	25.5	12.5	22.0	22.5	0.80	P11011-ND◆	.72	6.21	48.65	ECQ-U2A824ML
	1.0	25.5	12.0	22.0	22.5	0.80	P10736-ND◆	.76	6.54	51.23	ECQ-U2A105ML
	1.2	30.5	16.5	26.5	27.5	0.80	P11012-ND	.92	7.86	61.57	ECQ-U2A125ML
	1.5	30.5	16.5	26.5	27.5	0.80	P10737-ND◆	1.07	9.15	71.68	ECQ-U2A155ML
	1.8	30.5	19.0	29.5	27.5	0.80	P11013-ND◆	1.17	10.02	78.49	ECQ-U2A185ML
	2.2	30.5	19.0	29.5	27.5	0.80	P10738-ND◆	1.27	10.92	85.54	ECQ-U2A225ML

◆ ***RoHS Compliant***

† P4650-KIT-ND ***Digi-Key® X-Y Series Capacitors Kit*** 10 each of all values denoted. (100 pcs.) Notebook style box included. **$59.95**

EPCOS

Multilayer Ceramic Capacitors

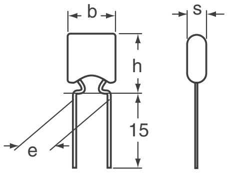

COG
Features: • Good thermal stability • High insulation resistance • Low dissipation factor • Low inductance **Applications**: • Resonant circuits • Timing elements • Coupling and filtering, particularly in RF circuits **Electrical Data**: • Dielectric: Class 1 • Operating temperature range: -55°C ~ 125°C

X7R
Features: • High volumetric efficiency • Non-linear capacitance change • High insulation resistance • High pulse strength **Applications**: • Blocking • Coupling • Decoupling • Interference suppression **Electrical Data**: • Standard: EIA • Dielectric: Class 2 • Operating temperature range: -55°C ~ 125°C

Z5U (Y5U)
Features: • Extremely high volumetric efficiency • Non-linear capacitance change • Y5U characteristic is also fulfilled **Applications**: • Blocking • Coupling • Decoupling • Interference suppression **Electrical Data**: • Standard: EIA • Dielectric: Class 2 • Operating temperature range: -30°C ~ 85°C

Type/ Tol.	VDC	Cap.	Dimensions (mm)				Digi-Key	Bulk Pricing			Digi-Key	Cut Tape Pricing			Digi-Key	Ammo Pack	
			h	b	s	e	Part No.	1	10	100	Part No.	10	100	1,000	Part No.	Qty.	Pricing
COG 5%	100	10pF	5.5	5.0	2.5	2.5	P4837-ND◆	.23	1.58	11.17	495-1000-1-ND◆	1.47	11.21	77.63	495-1000-3-ND◆	2,500	52.00/M
	100	10pF	5.5	5.0	2.5	5.0	495-3266-ND◆	.23	1.58	11.17	495-3267-1-ND◆	1.47	11.21	77.63	495-3267-2-ND◆‡	2,500	55.00/M
	100	10pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3292-1-ND◆	1.47	11.21	77.63	495-3292-2-ND◆‡	2,500	55.00/M
	100	15pF	5.5	5.0	2.5	2.5	P4839-ND◆	.23	1.58	11.17	—	—	—	—	—	—	—
	100	15pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3296-1-ND◆	1.47	11.21	77.63	495-3296-2-ND◆‡	2,500	55.00/M
	100	18pF	5.5	5.0	2.5	2.5	P4840-ND◆	.23	1.58	11.17	—	—	—	—	—	—	—
	100	18pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3297-1-ND◆	1.47	11.21	77.63	495-3297-2-ND◆‡	2,500	55.00/M
	100	22pF	5.5	5.0	2.5	2.5	P4841-ND◆	.23	1.58	11.17	495-1004-1-ND◆	1.47	11.21	77.63	495-1004-3-ND◆	2,500	52.00/M
	100	22pF	5.5	5.0	2.5	5.0	495-3271-ND◆	.23	1.58	11.17	495-3272-1-ND◆	1.47	11.21	77.63	495-3272-2-ND◆‡	2,500	55.00/M
	100	22pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3298-1-ND◆	1.47	11.21	77.63	495-3298-2-ND◆‡	2,500	55.00/M
	100	22pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3299-1-ND◆∆	1.47	11.21	77.63	495-3299-2-ND◆‡∆	2,500	55.00/M
	100	27pF	5.5	5.0	2.5	2.5	P4842-ND◆	.23	1.58	11.17	—	—	—	—	—	—	—
	100	27pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3302-1-ND◆	1.47	11.21	77.63	495-3302-2-ND◆‡	2,500	55.00/M
	100	33pF	5.5	5.0	2.5	2.5	P4843-ND◆	.23	1.58	11.17	495-1006-1-ND◆	1.47	11.21	77.63	495-1006-3-ND◆	2,500	52.00/M
	100	33pF	5.5	5.0	2.5	5.0	495-3274-ND◆	.23	1.58	11.17	495-3275-1-ND◆	1.47	11.21	77.63	495-3275-2-ND◆‡	2,500	55.00/M
	100	33pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3303-1-ND◆	1.47	11.21	77.63	495-3303-2-ND◆‡	2,500	55.00/M
	100	33pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3304-1-ND◆∆	1.47	11.21	77.63	495-3304-2-ND◆‡∆	2,500	55.00/M
	100	47pF	5.5	5.0	2.5	2.5	P4845-ND◆	.19	1.32	9.30	495-1008-1-ND◆	1.47	11.21	77.63	495-1008-3-ND◆	2,500	52.00/M
	100	47pF	5.5	5.0	2.5	5.0	495-3277-ND◆	.20	1.37	9.68	495-3278-1-ND◆	1.47	11.21	77.63	495-3278-2-ND◆‡	2,500	55.00/M
	100	47pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3307-1-ND◆	1.23	9.39	65.03	495-3307-2-ND◆‡	2,500	46.00/M
	100	68pF	5.5	5.0	2.5	2.5	P4847-ND◆	.23	1.58	11.17	—	—	—	—	—	—	—
	100	68pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3310-1-ND◆	1.47	11.21	77.63	495-3310-2-ND◆‡	2,500	55.00/M
	100	100pF	5.5	5.0	2.5	2.5	P4849-ND◆	.23	1.58	11.17	—	—	—	—	—	—	—
	100	100pF	5.5	5.0	2.5	5.0	495-3268-ND◆	.23	1.58	11.17	495-3269-1-ND◆	1.47	11.21	77.63	495-3269-2-ND◆‡	2,500	55.00/M
	100	100pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3293-1-ND◆	1.47	11.21	77.63	495-3293-2-ND◆‡	2,500	55.00/M
	100	220pF	5.5	5.0	2.5	5.0	—	—	—	—	495-1014-1-ND	1.80	13.75	95.18	495-1014-3-ND	2,500	63.00/M
	100	220pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3273-1-ND◆	1.80	13.75	95.18	495-3273-2-ND◆‡	2,500	68.00/M
	100	220pF	5.5	5.0	2.5	2.5	495-3300-ND◆	.29	1.94	13.67	495-3301-1-ND◆	1.80	13.75	95.18	495-3301-2-ND◆‡	2,500	68.00/M
	100	330pF	5.5	5.0	2.5	5.0	—	—	—	—	495-1016-1-ND◆	1.80	13.75	95.18	—	—	—
	100	330pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3276-1-ND◆	1.80	13.75	95.18	495-3276-2-ND◆‡	2,500	68.00/M
	100	330pF	5.5	5.0	2.5	2.5	495-3305-ND◆	.28	1.93	13.59	495-3306-1-ND◆	1.80	13.75	95.18	495-3306-2-ND◆‡	2,500	68.00/M
	100	470pF	5.5	5.0	2.5	5.0	—	—	—	—	495-1017-1-ND	1.80	13.75	95.18	495-1017-3-ND	2,500	63.00/M
	100	470pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3279-1-ND◆	1.80	13.75	95.18	495-3279-2-ND◆‡	2,500	68.00/M
	100	470pF	5.5	5.0	2.5	2.5	495-3308-ND◆	.28	1.93	13.59	495-3309-1-ND◆	1.80	13.75	95.18	495-3309-2-ND◆‡	2,500	68.00/M
	100	680pF	5.5	5.0	2.5	5.0	P4859-ND◆	.23	1.73	12.35	—	—	—	—	—	—	—
	100	680pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3280-1-ND◆	1.80	13.75	95.18	495-3280-2-ND◆‡	2,500	68.00/M
	100	1000pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3270-1-ND◆	2.41	18.43	127.58	495-3270-2-ND◆‡	2,500	91.00/M
	100	1000pF	5.5	5.0	2.5	2.5	495-3294-ND◆	.38	2.60	18.34	495-3295-1-ND◆	2.41	18.43	127.58	495-3295-2-ND◆‡	2,500	91.00/M
	100	2200pF	6.5	5.0	2.5	5.0	—	—	—	—	495-1024-1-ND◆	4.06	31.07	215.10	495-1024-3-ND◆	2,500	143.00/M
	100	2200pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3369-1-ND◆	4.06	31.07	215.10	495-3369-2-ND◆‡	2,500	153.00/M
	50	100pF	5.5	5.0	2.5	2.5	P4925-ND◆	.28	1.93	13.59	495-1025-1-ND◆	1.80	13.75	95.18	495-1025-3-ND◆	2,500	63.00/M
	50	100pF	5.5	5.0	2.5	5.0	495-3281-ND◆	.28	1.93	13.59	495-3282-1-ND◆	1.80	13.75	95.18	495-3282-2-ND◆‡	2,500	68.00/M
	50	100pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3311-1-ND◆	1.80	13.75	95.18	495-3311-2-ND◆‡	2,500	68.00/M
	50	220pF	5.5	5.0	2.5	2.5	—	—	—	—	495-1029-1-ND◆	1.80	13.75	95.18	495-1029-3-ND◆	2,500	63.00/M
	50	220pF	5.5	5.0	2.5	5.0	495-3284-ND◆	.28	1.93	13.59	495-3285-1-ND◆	1.80	13.75	95.18	495-3285-2-ND◆‡	2,500	68.00/M
	50	220pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3314-1-ND◆	1.80	13.75	95.18	495-3314-2-ND◆‡	2,500	68.00/M
	50	330pF	5.5	5.0	2.5	5.0	495-3287-ND◆	.28	1.93	13.59	495-3288-1-ND◆	1.80	13.75	95.18	495-3288-2-ND◆‡	2,500	68.00/M
	50	470pF	5.5	5.0	2.5	2.5	—	—	—	—	495-1032-1-ND◆	1.80	13.75	95.18	495-1032-3-ND◆	2,500	63.00/M
	50	470pF	5.5	5.0	2.5	5.0	495-3289-ND◆	.28	1.93	13.59	495-3290-1-ND◆	1.80	13.75	95.18	495-3290-2-ND◆‡	2,500	68.00/M
	50	470pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3317-1-ND◆	1.80	13.75	95.18	495-3317-2-ND◆‡	2,500	68.00/M
	50	680pF	5.5	5.0	2.5	5.0	—	—	—	—	495-1034-1-ND	2.48	18.95	131.18	—	—	—
	50	820pF	5.5	5.0	2.5	5.0	—	—	—	—	495-1035-1-ND◆	1.70	13.00	90.00	495-1035-3-ND	2,500	60.00/M
	50	820pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3291-1-ND◆	1.70	13.00	90.00	495-3291-2-ND◆‡	2,500	64.00/M
	50	1000pF	5.5	5.0	2.5	5.0	P4937-ND◆	.25	1.88	13.40	495-1036-1-ND◆	1.94	14.82	102.60	495-1036-3-ND	2,500	68.00/M
	50	1000pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3283-1-ND◆	1.94	14.82	102.60	495-3283-2-ND◆‡	2,500	73.00/M
	50	1000pF	5.5	5.0	2.5	2.5	495-3312-ND◆	.31	2.09	14.74	495-3313-1-ND◆	1.94	14.82	102.60	495-3313-2-ND◆‡	2,500	73.00/M
	50	2200pF	5.5	5.0	2.5	5.0	P4941-ND◆	.35	2.59	18.53	—	—	—	—	—	—	—
	50	2200pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3286-1-ND◆	2.69	20.57	142.43	495-3286-2-ND◆‡	2,500	101.00/M
	50	2200pF	5.5	5.0	2.5	2.5	495-3315-ND◆	.43	2.91	20.49	495-3316-1-ND◆	2.69	20.57	142.43	495-3316-2-ND◆‡	2,500	101.00/M
	50	3300pF	6.5	5.0	2.5	5.0	P4943-ND◆	.42	3.12	22.91	495-1042-1-ND◆	3.54	27.07	187.43	495-1042-3-ND◆	2,500	125.00/M
	50	3300pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3371-1-ND◆	3.54	27.07	187.43	495-3371-2-ND◆‡	2,500	133.00/M
	50	3300pF	6.5	5.0	2.5	2.5	495-3377-ND◆	.56	3.80	26.81	495-3378-1-ND◆	3.54	27.07	187.43	495-3378-2-ND◆‡	2,500	133.00/M
	50	3900pF	6.5	5.0	2.5	5.0	495-3372-ND◆	.56	3.80	26.81	495-3373-1-ND◆	3.54	27.07	187.43	495-3373-2-ND◆‡	2,500	133.00/M
	50	4700pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3374-1-ND◆	4.53	34.68	240.08	495-3374-2-ND◆‡	2,500	171.00/M
	50	4700pF	6.5	5.0	2.5	2.5	495-3379-ND◆	.72	4.87	34.32	495-3380-1-ND◆	4.53	34.68	240.08	495-3380-2-ND◆‡	2,500	171.00/M
	50	6800pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3375-1-ND◆	6.52	49.86	345.15	495-3375-2-ND◆‡	2,500	245.00/M
	50	6800pF	6.5	5.0	2.5	2.5	495-3381-ND◆	1.03	7.00	49.34	—	—	—	—	—	—	—
	50	10000pF	6.5	5.0	2.5	5.0	P4948-ND◆	.72	5.38	40.37	495-1047-1-ND◆	6.52	49.86	345.15	495-1047-3-ND◆	2,500	230.10/M
	50	10000pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3370-1-ND◆	6.52	49.86	345.15	495-3370-2-ND◆‡	2,500	245.00/M
	50	10000pF	6.5	5.0	2.5	2.5	—	—	—	—	495-3376-1-ND◆	6.52	49.86	345.15	495-3376-2-ND◆‡	2,500	245.00/M

◆ ***RoHS Compliant*** † Bulk parts have 30mm lead length ‡ Tape and Reel § 20% tolerance ∆ 10% tolerance

(Continued)

Multilayer Ceramic Capacitors *(Cont.)*

Type/ Tol.	VDC	Cap.	Dimensions (mm)				Digi-Key Part No.	Bulk Pricing			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Ammo Pack	
			h	b	s	e		1	10	100		10	100	1,000		Qty.	Pricing
X7R 10%	100	470pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3330-1-ND◆	1.70	13.00	90.00	495-3330-2-ND◆‡	2,500	64.00/M
	100	680pF	5.5	5.0	2.5	5.0	495-3333-ND◆	.27	1.84	12.95	495-3334-1-ND◆	1.70	13.00	90.00	495-3334-2-ND◆‡	2,500	64.00/M
	100	1000pF	5.5	5.0	2.5	2.5	P4898-ND◆	.27	1.84	12.95	495-1050-1-ND◆	1.70	13.00	90.00	495-1050-3-ND◆	2,500	60.00/M
	100	1000pF	5.5	5.0	2.5	5.0	495-3321-ND◆	.27	1.84	12.95	495-3322-1-ND◆	1.70	13.00	90.00	495-3322-2-ND◆‡	2,500	64.00/M
	100	1000pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3323-1-ND◆§	1.70	13.00	90.00	495-3323-2-ND◆‡§	2,500	64.00/M
	100	1000pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3342-1-ND◆	1.70	13.00	90.00	495-3342-2-ND◆‡	2,500	64.00/M
	100	1500pF	5.5	5.0	2.5	2.5	P4899-ND◆	.27	1.84	12.95	—	—	—	—	—	—	—
	100	1500pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3326-1-ND◆	1.70	13.00	90.00	495-3326-2-ND◆‡	2,500	64.00/M
	100	1500pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3344-1-ND◆	1.70	13.00	90.00	495-3344-2-ND◆‡	2,500	64.00/M
	100	2200pF	5.5	5.0	2.5	2.5	P4900-ND◆	.27	1.84	12.95	495-1487-1-ND◆	1.70	13.00	90.00	495-1487-3-ND◆	2,500	60.00/M
	100	2200pF	5.5	5.0	2.5	5.0	495-3327-ND◆	.27	1.84	12.95	495-3328-1-ND◆	1.70	13.00	90.00	495-3328-2-ND◆‡	2,500	64.00/M
	100	2200pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3345-1-ND◆	1.70	13.00	90.00	495-3345-2-ND◆‡	2,500	64.00/M
	100	3300pF	5.5	5.0	2.5	2.5	—	—	—	—	495-1052-1-ND◆	1.70	13.00	90.00	495-1052-3-ND◆	2,500	60.00/M
	100	3300pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3329-1-ND◆	1.70	13.00	90.00	495-3329-2-ND◆‡	2,500	64.00/M
	100	4700pF	5.5	5.0	2.5	2.5	P4902-ND◆	.28	1.93	13.59	495-1053-1-ND◆	1.47	11.28	78.08	—	—	—
	100	4700pF	5.5	5.0	2.5	5.0	495-3331-ND◆	.28	1.93	13.59	495-3332-1-ND◆	1.80	13.75	95.18	495-3332-2-ND◆‡	2,500	68.00/M
	100	4700pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3346-1-ND◆	1.80	13.75	95.18	495-3346-2-ND◆‡	2,500	68.00/M
	100	10000pF	5.5	5.0	2.5	2.5	P4904-ND◆	.28	1.93	13.59	495-1055-1-ND◆	1.80	13.75	95.18	495-1055-3-ND◆	2,500	63.00/M
	100	10000pF	5.5	5.0	2.5	5.0	495-3324-ND◆	.28	1.93	13.59	495-3325-1-ND◆	1.80	13.75	95.18	495-3325-2-ND◆‡	2,500	68.00/M
	100	10000pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3343-1-ND◆	1.80	13.75	95.18	495-3343-2-ND◆‡	2,500	68.00/M
	100	18000pF	6.5	5.0	2.5	2.5	495-3402-ND◆	.36	2.43	17.16	495-3403-1-ND◆	2.27	17.32	119.93	495-3403-2-ND◆‡	2,500	85.00/M
	100	22000pF	6.5	5.0	2.5	2.5	P4906-ND◆	.36	2.43	17.16	495-1056-1-ND◆	2.27	17.32	119.93	495-1056-3-ND◆	2,500	80.00/M
	100	22000pF	6.5	5.0	2.5	2.5	—	—	—	—	495-3404-1-ND◆	2.27	17.32	119.93	495-3404-2-ND◆‡	2,500	85.00/M
	100	22000pF	6.5	5.0	2.5	5.0	495-3386-ND◆	.36	2.43	17.16	495-3387-1-ND◆	2.27	17.32	119.93	495-3387-2-ND◆‡	2,500	85.00/M
	100	22000pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3388-1-ND◆§	2.27	17.32	119.93	495-3388-2-ND◆‡§	2,500	85.00/M
	100	47000pF	6.5	5.0	2.5	2.5	P4908-ND◆	.35	2.59	18.53	—	—	—	—	—	—	—
	100	47000pF	6.5	5.0	2.5	5.0	495-3389-ND◆	.43	2.89	20.38	495-3390-1-ND◆	2.69	20.57	142.43	495-3390-2-ND◆‡	2,500	101.00/M
	100	47000pF	6.5	5.0	2.5	2.5	—	—	—	—	495-3405-1-ND◆	2.69	20.57	142.43	495-3405-2-ND◆‡	2,500	101.00/M
	100	.1µF	6.5	5.0	2.5	2.5	P4910-ND◆	.48	3.50	25.03	495-1060-1-ND◆	3.63	27.79	192.38	495-1060-3-ND◆	2,500	128.00/M
	100	.1µF	6.5	5.0	2.5	5.0	495-3382-ND◆	.58	3.90	27.53	495-3383-1-ND◆	3.63	27.79	192.38	495-3383-2-ND◆‡	2,500	137.00/M
	100	.1µF	6.5	5.0	2.5	5.0	—	—	—	—	495-3384-1-ND◆§	3.63	27.79	192.38	495-3384-2-ND◆‡§	2,500	137.00/M
	100	.1µF	6.5	5.0	2.5	2.5	—	—	—	—	495-3400-1-ND◆	3.63	27.79	192.38	495-3400-2-ND◆‡	2,500	137.00/M
	100	.15µF	6.5	5.0	2.5	5.0	P4911-ND◆	.48	3.58	26.27	495-1061-1-ND◆	4.06	31.07	215.10	495-1061-3-ND◆	2,500	143.00/M
	100	.15µF	6.5	5.0	2.5	5.0	—	—	—	—	495-3385-1-ND◆	4.06	31.07	215.10	495-3385-2-ND◆‡	2,500	153.00/M
	100	.15µF	6.5	5.0	2.5	2.5	—	—	—	—	495-3401-1-ND◆	4.06	31.07	215.10	495-3401-3-ND◆	2,500	152.96/M
	50	3300pF	5.5	5.0	2.5	5.0	495-3338-ND◆	.27	1.84	12.95	495-3339-1-ND◆	1.70	13.00	90.00	495-3339-2-ND◆‡	2,500	64.00/M
	50	4700pF	5.5	5.0	2.5	2.5	P4950-ND◆	.35	2.38	16.76	495-1063-1-ND◆	1.70	13.00	90.00	495-1063-3-ND◆	2,500	60.00/M
	50	4700pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3340-1-ND◆	1.70	13.00	90.00	495-3340-2-ND◆‡	2,500	64.00/M
	50	10000pF	5.5	5.0	2.5	2.5	P4922-ND◆	.27	1.84	12.95	495-1065-1-ND◆	1.70	13.00	90.00	495-1065-3-ND◆	2,500	60.00/M
	50	10000pF	5.5	5.0	2.5	5.0	495-3335-ND◆	.27	1.84	12.95	495-3336-1-ND◆	1.70	13.00	90.00	495-3336-2-ND◆‡	2,500	64.00/M
	50	10000pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3347-1-ND◆	1.70	13.00	90.00	495-3347-2-ND◆‡	2,500	64.00/M
	50	10000pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3348-1-ND◆§	1.70	13.00	90.00	495-3348-2-ND◆‡§	2,500	64.00/M
	50	22000pF	5.5	5.0	2.5	2.5	P4953-ND◆	.28	1.93	13.59	495-1067-1-ND◆	1.80	13.75	95.18	495-1067-3-ND◆	2,500	63.00/M
	50	22000pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3337-1-ND◆	1.80	13.75	95.18	495-3337-2-ND◆‡	2,500	68.00/M
	50	22000pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3351-1-ND◆	1.80	13.75	95.18	495-3351-2-ND◆‡	2,500	68.00/M
	50	47000pF	5.5	5.0	2.5	5.0	P4955-ND◆	.33	2.23	15.73	495-1069-1-ND◆	2.08	15.89	110.03	495-1069-3-ND◆	2,500	73.00/M
	50	47000pF	5.5	5.0	2.5	5.0	—	—	—	—	495-3341-1-ND◆	2.08	15.89	110.03	495-3341-2-ND◆‡	2,500	78.00/M
	50	47000pF	5.5	5.0	2.5	2.5	495-3352-ND◆	.36	2.43	17.16	495-3353-1-ND◆	2.36	18.07	125.10	495-3353-2-ND◆‡	2,500	89.00/M
	50	47000pF	5.5	5.0	2.5	2.5	—	—	—	—	495-3354-1-ND◆§	2.36	18.07	125.10	495-3354-3-ND◆§	2,500	88.96/M
	50	68000pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3399-1-ND◆	2.55	19.53	135.23	495-3399-2-ND◆‡	2,500	96.00/M
	50	68000pF	6.5	5.0	2.5	2.5	—	—	—	—	495-3411-1-ND◆	2.55	19.53	135.23	495-3411-2-ND◆‡	2,500	96.00/M
	50	.1µF	6.5	5.0	2.5	5.0	P4923-ND◆	.25	1.82	13.00	495-1071-1-ND◆	1.89	14.46	100.13	495-1071-3-ND◆	2,500	67.00/M
	50	.1µF	5.5	5.0	2.5	2.5	495-3349-ND◆	.15	1.02	7.21	495-3350-1-ND◆	1.11	8.52	58.95	495-3350-2-ND◆‡	2,500	42.00/M
	50	.1µF	6.5	5.0	2.5	5.0	—	—	—	—	495-3391-1-ND◆	1.89	14.46	100.13	495-3391-2-ND◆‡	2,500	71.00/M
	50	.1µF	6.5	5.0	2.5	5.0	—	—	—	—	495-3392-1-ND◆§	1.94	14.82	102.60	495-3392-2-ND◆‡§	2,500	73.00/M
	50	.1µF	6.5	5.0	2.5	2.5	495-3406-ND◆	.31	2.08	14.66	495-3407-1-ND◆	1.94	14.82	102.60	495-3407-2-ND◆‡	2,500	73.00/M
	50	.1µF	6.5	5.0	2.5	2.5	—	—	—	—	495-3408-1-ND◆§	1.94	14.82	102.60	495-3408-2-ND◆‡§	2,500	73.00/M
	50	.15µF	6.5	5.0	2.5	5.0	P13014-ND†	.31	2.08	14.66	—	—	—	—	—	—	—
	50	.15µF	6.5	5.0	2.5	5.0	—	—	—	—	495-3395-1-ND◆	3.68	28.18	195.08	495-3395-2-ND◆‡	2,500	139.00/M
	50	.15µF	6.5	5.0	2.5	2.5	—	—	—	—	495-3409-1-ND◆	3.68	28.18	195.08	495-3409-2-ND◆‡	2,500	139.00/M
	50	.22µF	6.5	5.0	2.5	5.0	P4958-ND◆	.54	3.99	29.33	495-1073-1-ND◆	4.53	34.68	240.08	495-1073-3-ND◆	2,500	160.00/M
	50	.22µF	9.0	7.5	2.5	5.0	495-3360-ND◆	1.08	7.34	51.73	495-3361-1-ND◆	7.96	60.84	421.20	495-3361-2-ND◆‡	2,000	281.00/M
	50	.22µF	6.5	5.0	2.5	5.0	—	—	—	—	495-3396-1-ND◆	4.53	34.68	240.08	495-3396-2-ND◆‡	2,500	171.00/M
	50	.22µF	6.5	5.0	2.5	2.5	—	—	—	—	495-3410-1-ND◆	4.53	34.68	240.08	495-3410-2-ND◆‡	2,500	171.00/M
	50	.33µF	9.0	7.5	2.5	5.0	P4959-ND◆	.81	6.02	44.20	495-1074-1-ND◆	7.96	60.84	421.20	495-1074-3-ND◆	2,000	280.80/M
	50	.33µF	9.0	7.5	2.5	5.0	—	—	—	—	495-3362-1-ND◆	7.96	60.84	421.20	495-3362-2-ND◆‡	2,000	281.00/M
	50	.33µF	9.0	7.5	2.5	5.0	—	—	—	—	495-3363-1-ND◆§	7.96	60.84	421.20	495-3363-2-ND◆‡§	2,000	281.00/M
	50	.47µF	9.0	7.5	2.5	5.0	P4960-ND◆	.87	6.55	49.14	495-1075-1-ND◆	9.28	70.98	491.40	495-1075-3-ND◆	2,000	327.60/M
	50	.47µF	9.0	7.5	2.5	5.0	—	—	—	—	495-3364-1-ND◆	9.28	70.98	491.40	495-3364-2-ND◆‡	2,000	328.00/M
	50	.47µF	6.5	5.0	2.5	5.0	495-3397-ND◆	.32	2.15	15.13	495-3398-1-ND◆	2.34	17.88	123.75	495-3398-3-ND◆	2,500	88.00/M
	50	.68µF	9.0	7.5	2.5	5.0	P4961-ND◆	1.34	10.04	75.26	495-1076-1-ND◆	14.14	108.16	748.80	495-1076-3-ND◆	2,000	499.20/M
	50	.68µF	9.0	7.5	2.5	5.0	—	—	—	—	495-3365-1-ND◆	14.14	108.16	748.80	495-3365-2-ND◆‡	2,000	499.00/M
	50	.68µF	9.0	7.5	2.5	5.0	—	—	—	—	495-3366-1-ND◆§	9.35	71.50	495.00	495-3366-2-ND◆‡§	2,000	330.00/M
	50	.82µF	9.0	7.5	2.5	5.0	495-3367-ND◆	2.33	15.80	111.40	495-3368-1-ND◆	17.13	130.98	130.98	495-3368-2-ND◆‡	2,000	605.00/M
	50	1.0µF	9.0	7.5	2.5	5.0	P4962-ND◆	1.42	10.74	81.02	495-1077-1-ND◆	13.37	102.25	707.85	495-1077-3-ND◆	2,000	471.90/M
	50	1.0µF	9.0	7.5	2.5	5.0	—	—	—	—	495-3357-1-ND◆	13.37	102.25	707.85	495-3357-2-ND◆‡	2,000	472.00/M
	50	1.0µF	9.0	7.5	2.5	5.0	495-3358-ND◆§	2.33	15.80	111.40	495-3359-1-ND◆§	17.13	130.98	906.75	495-3359-2-ND◆‡§	2,000	605.00/M
	50	1.0µF	6.5	5.0	2.5	5.0	495-3393-ND◆	.47	3.17	22.36	495-3394-1-ND◆	3.46	26.42	182.93	495-3394-3-ND◆	2,500	130.00/M
Z5U	50	22000pF	5.5	5.0	2.5	2.5	—	—	—	—	495-1079-1-ND◆	.87	6.66	46.13	—	—	—
	50	1.5µF	9. 0	7.5	2.5	5.0	—	—	—	—	495-2630-1-ND◆	5.32	40.66	281.48	495-2630-3-ND◆	2,000	188.00/M

◆ ***RoHS Compliant*** † Bulk parts have 30mm lead length ‡ Tape and Reel § 20% tolerance Δ 10% tolerance

AVX TPC Radial Leaded Ceramic Disc Capacitors

Class 1 Dielectric Features: These ceramic capacitors have a linear temperature coefficient, very low tolerances, low losses, high insulation resistance, and are specially suited for tuned circuits, timing and other precision circuits. **Specifications:** • Insulation Resistance: ≥10GΩ • Operating Temperature Range: -30°C ~ 85°C

SL Dielectric Features: These capacitors have wide temperature characteristics but still offer low loss and linear type temperature coefficients. They are specially designed to be a smaller alternative to standard Class 1 capacitors of linear temperature coefficient. Typical application is RF tuning. **Specifications:** • Operating Temperature: -30°C ~ 85°C

Class 2 Dielectric Features: These ceramic capacitors have a high dielectric constant, which makes possible high capacitance values in reduced dimensions. However, temperature coefficient and loss factor are greater than Class 1. Typical applications include decoupling and bypass. **Specifications:** • Insulation Resistance: ≥10GΩ • Operating Temperature Range: -30°C ~ 85°C

Class 3 Dielectric Features: A thin dielectric layer is grown on a disc of conductive ceramic. Very large capacitances can be obtained due to reduced thickness of this barrier layer and its inherently high dielectric constant. Due to its small dimensions, they are a less expensive replacement of multilayer ceramic or polyester capacitors. **Specifications:** • Operating Temperature Range: -30°C ~ 85°C

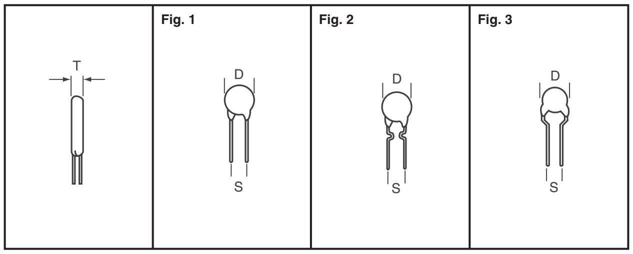

Fig.	VDC	Capacitance (pF)	Temp. Coefficient	Tolerance (%)	Dimension (mm)			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Ammo Pack		AVX Part No.
					D	S	T		1	10	100		Qty.	Pricing	
Class 1 Dielectric															
1	100	22	NP0	±5	5	5	4	478-4204-1-ND	—	2.09	12.35	478-4204-3-ND	2,000	34.00/M	5AK220JABAI
1		22	NP0	±10	5	5	4	478-4205-1-ND	—	3.19	18.85	478-4205-3-ND	2,000	52.00/M	5AK220KABJI
1		27	NP0	±10	5	5	4	478-4206-1-ND	—	3.30	19.50	478-4206-3-ND	2,000	54.00/M	5AK270KABJI
2		33	NP0	±10	5	5	4	478-4207-1-ND	—	4.18	24.70	478-4207-3-ND	2,000	68.00/M	5AK330KOBAM
1		68	NP0	±5	8	5	4	478-4208-1-ND	—	3.85	22.75	478-4208-2-ND◊	2,000	63.00/M	5AK680JAEJH
1		120	NP0	±10	9	5	5	478-4203-1-ND	—	3.96	23.40	478-4203-3-ND	2,000	65.00/M	5AK121KAFJI
2	500	120	NP0	±10	7	5	4	478-4209-1-ND	—	4.29	25.35	478-4209-3-ND	2,000	70.00/M	5AQ470KODAM
SL Dielectric															
2	100	33	SL	±10	4	5	3	478-4210-1-ND	—	3.30	19.50	478-4210-3-ND	2,000	54.00/M	5KK330KOAAM
		56	SL	±10	4	5	3	478-4211-1-ND	—	4.95	29.25	478-4211-3-ND	2,000	81.00/M	5KK560KOAAM
	500	330	SL	±5	6	5	3	478-4212-1-ND	—	5.17	30.55	478-4212-3-ND	2,000	85.00/M	5KQ331JOCAM
Class 2 Dielectric															
2	100	100	Y5E	±10	4	5	3	478-4213-1-ND	—	4.18	24.70	478-4213-3-ND	2,000	68.00/M	5MK101KOAAM
2		100	Y5F	±10	4	5	3	478-4216-1-ND	—	2.64	15.60	478-4216-3-ND	2,000	43.00/M	5NK101KOAAM
1		220	Y5P	±20	4	5	3	478-4244-1-ND	—	3.19	18.85	478-4244-3-ND	2,000	52.00/M	5OK221MAAJI
2		470	Y5P	±10	4	5	3	478-4246-1-ND	—	3.19	18.85	478-4246-3-ND	2,000	52.00/M	5OK471KOAAM
1		470	Y5P	±20	4	5	3	478-4247-1-ND	—	3.19	18.85	478-4247-3-ND	2,000	52.00/M	5OK471MAAJI
2		470	Y5F	±10	5	5	4	478-4217-1-ND	—	3.19	18.85	478-4217-3-ND	2,000	52.00/M	5NK471KOBAM
1		1000	Y5P	±10	5	5	4	478-4241-1-ND	—	3.19	18.85	478-4241-2-ND◊	2,500	52.00/M	5OK102KABJH
1		1000	Y5P	±10	5	5	4	478-4242-1-ND	—	2.64	15.60	478-4242-3-ND	2,000	43.00/M	5OK102KABJI
2		1000	Y5P	±10	5	5	4	478-4243-1-ND	—	3.30	19.50	478-4243-3-ND	2,000	54.00/M	5OK102KOBAM
2		2200	Y5P	±10	8	5	4	478-4245-1-ND	—	3.52	20.80	478-4245-3-ND	2,000	58.00/M	5OK222KOEAM
2		10000	Y5U	-20 / +50	11	5	5	478-4259-1-ND	—	4.84	28.60	478-4259-3-ND	2,000	79.00/M	5SK103SOHAM
2		10000	Z5V	-20 / +50	5	5	4	478-4268-1-ND	—	3.85	22.75	478-4268-3-ND	2,000	63.00/M	5UK103ZOBAM
2	500	100	Y5P	±10	4	5	3	478-4248-1-ND	—	4.18	24.70	478-4248-3-ND	2,000	68.00/M	5OQ101KOAAM
2		100	Y5E	±10	4	5	3	478-4214-1-ND	—	3.63	21.45	478-4214-3-ND	2,000	59.00/M	5MQ101KOAAM
2		100	Y5F	±10	4	5	3	478-4218-1-ND	—	2.86	16.90	478-4218-3-ND	2,000	47.00/M	5NQ101KOAAM
2		270	Y5F	±10	4	5	3	478-4219-1-ND	—	2.86	16.90	478-4219-3-ND	2,000	47.00/M	5NQ271KOAAM
2		390	Y5E	±10	5	5	4	478-4215-1-ND	—	4.18	24.70	478-4215-3-ND	2,000	68.00/M	5MQ391KOBAM
2		390	Y5F	±10	4	5	3	478-4220-1-ND	—	3.30	19.50	478-4220-3-ND	2,000	54.00/M	5NQ391KOAAM
2		470	Y5P	±10	4	5	3	478-4254-1-ND	—	3.52	20.80	478-4254-3-ND	2,000	58.00/M	5OQ471KOAAM
2		470	Y5P	±20	4	5	3	478-4255-1-ND	—	3.41	20.15	478-4255-3-ND	2,000	56.00/M	5OQ471MOAAM
2		470	Y5F	±10	5	5	4	478-4221-1-ND	—	2.86	16.90	478-4221-3-ND	2,000	47.00/M	5NQ471KOBAM
2		560	Y5P	±10	4	5	3	478-4257-1-ND	—	3.30	19.50	478-4257-3-ND	2,000	54.00/M	5OQ561KOAAM
2		820	Y5F	±10	6	5	4	478-4222-1-ND	—	3.52	20.80	478-4222-3-ND	2,000	58.00/M	5NQ821KOCAM
1		1000	Y5P	±10	6	5	4	478-4249-1-ND	—	3.96	23.40	478-4249-2-ND◊	2,500	65.00/M	5OQ102KACAH
1		1000	Y5P	±10	6	5	4	478-4250-1-ND	—	3.52	20.80	478-4250-2-ND◊	2,500	58.00/M	5OQ102KACJA
2		1000	Y5P	±10	6	5	4	478-4251-1-ND	—	3.41	20.15	478-4251-3-ND	2,000	56.00/M	5OQ102KOCAM
1		1000	Y5U	±20	4	5	3	478-4260-ND‡	.17	1.62	11.70	—	—	—	5SQ102MAAAA
2		1000	Y5U	±20	4	5	3	478-4261-1-ND	—	4.40	26.00	478-4261-2-ND◊	2,500	72.00/M	5SQ102MOAAL
2		1000	Y5U	±20	4	5	3	478-4262-1-ND	—	3.52	20.80	478-4262-3-ND	2,000	58.00/M	5SQ102MOAAM
2		1000	Y5P	±20	6	5	4	478-4252-1-ND	—	3.30	19.50	478-4252-3-ND	2,000	54.00/M	5OQ102MOCAM
2		1500	Y5P	±10	7	5	4	478-4253-1-ND	—	4.84	28.60	478-4253-3-ND	2,000	79.00/M	5OQ152KODAM
1		2200	Y5U	±20	7	5	4	478-4263-1-ND	—	4.51	26.65	478-4263-3-ND	2,000	74.00/M	5SQ222MADAK
2		4700	Y5P	±10	11	5	5	478-4256-1-ND	—	6.27	37.05	478-4256-3-ND	2,000	103.00/M	5OQ472KOHAM
3	1000	100	Y5F	±10	5	5	4	478-4223-ND‡	.12	1.13	8.13	—	—	—	5NR101KNBCA
1		220	Y5F	±10	4	5	3	478-4230-ND‡	.20	1.89	13.65	—	—	—	5NR221KAACA
1		470	Y5F	±10	5	5	4	478-4233-1-ND	—	4.51	26.65	478-4233-2-ND◊	2,000	74.00/M	5NR471KABLH
1		1000	Y5F	±10	7	5	4	478-4224-1-ND	—	3.41	20.15	478-4224-2-ND◊	2,000	56.00/M	5NR102KADLH
3		1000	Y5F	±10	7	5	4	478-4225-1-ND	—	3.63	21.45	478-4225-3-ND	1,500	59.00/M	5NR102KNDCM
3		1000	Y5F	±10	7	5	4	478-4226-1-ND	—	4.29	25.35	478-4226-3-ND	1,500	70.00/M	5NR102KNDLM
3		1000	Y5F	±10	8	5	4	478-4227-ND‡	.39	3.69	26.65	—	—	—	5NR102KNECA
1		1800	Y5F	±10	10	5	5	478-4229-1-ND	—	8.47	50.05	478-4229-3-ND	1,500	139.00/M	5NR182KAGAI
1		2200	Y5F	±10	11	5	5	478-4231-ND‡	.34	3.20	23.08	—	—	—	5NR222KAHCA
2		3300	Y5F	±10	13	10	6	478-4232-ND‡	.42	4.01	28.93	—	—	—	5NR332KWJCA
2		10000	Y5F	±10	16	10	7	478-4228-ND‡	.74	7.02	50.70	—	—	—	5NR103KWLCA
1		10000	Y5R	±20	19	10	7	478-4258-ND‡	.92	8.69	62.73	—	—	—	5PR103MUMCE
2	2000	470	Y5F	±10	8	7.5	4	478-4238-ND‡	.20	1.89	13.65	—	—	—	5NS471KRECA
2		1000	Y5F	±10	9	7.5	5	478-4234-ND‡	.22	2.12	15.28	—	—	—	5NS102KRFCA
1		1000	Y5F	±20	9	7.5	5	478-4235-1-ND	—	5.83	34.45	478-4235-3-ND	1,500	95.00/M	5NS102MBFCI
2		1800	Y5F	±10	11	7.5	5	478-4236-ND‡	.26	2.43	17.55	—	—	—	5NS182KRHCA
1		2200	Y5U	±20	9	7.5	5	478-4264-ND‡	.34	3.24	23.40	—	—	—	5SS222MBFCA
2		2200	Y5F	±10	13	10	6	478-4237-ND‡	.29	2.79	20.15	—	—	—	5NS222KWJCA
1		4700	Y5U	-20 / +50	11	7.5	5	478-4267-ND‡	.26	3.74	26.98	—	—	—	5SS472SBHCA
1		4700	Y5U	±20	11	7.5	5	478-4265-ND‡	.39	3.74	26.98	—	—	—	5SS472MBHCA
3		4700	Y5U	±20	11	5	5	478-4266-1-ND	—	8.91	52.65	478-4266-3-ND	1,500	146.00/M	5SS472MNHCM
2	3000	1000	Y5F	±10	10	10	5	478-4239-ND‡	.22	2.12	15.28	—	—	—	5NT102KWGCA
3		2200	Y5F	±10	13	7.5	6	478-4240-ND‡	.29	2.75	19.83	—	—	—	5NT222KQJCA
Class 3 Dielectric															
2	25	0.1µF	Y5V	-20 / +80	6	5	3	478-4274-1-ND	—	3.63	21.45	478-4274-3-ND	2,000	59.00/M	5ZF104ZOCAM
1	50	10000	Y5U	-20 / +80	4	5	3	478-4271-1-ND	—	3.52	20.80	478-4271-2-ND◊	2,500	58.00/M	5YH103ZAAJA
1		10000	Y5U	-20 / +80	4	5	3	478-4272-1-ND	—	2.31	13.65	478-4272-3-ND	2,000	38.00/M	5YH103ZAAJI
1		10000	Y5P	±20	6	5	3	478-4269-1-ND	—	3.85	22.75	478-4269-3-ND	2,000	63.00/M	5WH103MACJI
1		10000	Y5P	-20 / +80	6	5	3	478-4270-1-ND	—	3.85	22.75	478-4270-2-ND◊	2,500	63.00/M	5WH103ZACJH
2		47000	Y5U	-20 / +80	8	5	3	478-4273-1-ND	—	4.29	25.35	478-4273-3-ND	2,000	70.00/M	5YH473ZOEAM
1		0.1µF	Y5V	±20	6	5	3	478-4275-1-ND	—	2.97	17.55	478-4275-3-ND	2,000	49.00/M	5ZH104MACJI
1		0.1µF	Y5V	-20 / +80	6	5	3	478-4276-1-ND	—	3.63	21.45	478-4276-2-ND◊	2,500	59.00/M	5ZH104ZACAH
1		0.1µF	Y5V	-20 / +80	6	5	3	478-4277-1-ND	—	2.97	17.55	478-4277-2-ND◊	2,500	49.00/M	5ZH104ZACJA
1		0.1µF	Y5V	-20 / +80	6	5	3	478-4278-1-ND	—	3.52	20.80	478-4278-3-ND	2,000	58.00/M	5ZH104ZACJI
2		0.1µF	Y5V	-20 / +80	6	5	3	478-4279-1-ND	—	4.51	26.65	478-4279-3-ND	2,000	74.00/M	5ZH104ZOCAM
2		0.1µF	Y5V	-20 / +80	6	5	3	478-4280-1-ND	—	3.52	20.80	478-4280-2-ND◊	2,500	58.00/M	5ZH104ZOCJA
2		0.1µF	Y5V	-20 / +80	6	5	3	478-4281-1-ND	—	3.52	20.80	478-4281-2-ND◊	2,500	58.00/M	5ZH104ZOCJL
2		0.1µF	Y5V	-20 / +80	6	5	3	478-4282-1-ND	—	3.41	20.15	478-4282-3-ND	2,000	56.00/M	5ZH104ZOCJM

◊ Tape and Reel ‡ Bulk

AVX TPC

Epoxy Coated AC and Switch Mode Ceramic Disc Capacitors

These capacitors are made of a new dielectric compound specially developed for AC or switch mode circuits that can generate dielectric heat, which is the limiting factor on other ceramic disc capacitors.

This series adds the advantages of Class 1 capacitors (low loss factor) with the advantages of Class 2 capacitors (small size and lower cost). These capacitors are epoxy coated, flame retardant class UL94V-0. They meet the standards of the telecom and data processing industry. They are particularly suited for TV deflection and power supply circuits.

Specifications: • Insulation Resistance @ 500V: ≥10GΩ • Operating Temperature: -40°C ~ 125°C

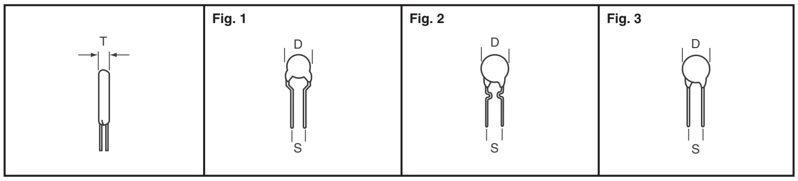

Fig.	VDC	Cap. (pF)	Temp. Coefficient	Tolerance (%)	Dimension (mm) D	S	T	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Ammo Pack Qty.	Pricing	AVX Part No.
1	1000	2200	Y5P	±10	13	5	6	478-4287-1-ND	—	6.82	40.30	478-4287-3-ND	1,500	112.00/M	6LR222KNJCM
2	2000	220	Y5P	±10	6	7.5	4	478-4291-ND‡	.17	1.58	11.38	—	—	—	6LS221KRCCT
1		220	Y5P	±10	7	5	4	478-4290-1-ND	—	7.81	46.15	478-4290-3-ND	1,500	128.00/M	6LS221KNDCM
1		270	Y5P	±10	7	5	4	478-4292-1-ND	—	4.07	24.05	478-4292-3-ND	1,500	67.00/M	6LS271KNDCM
1		330	Y5P	±10	8	5	4	478-4293-1-ND	—	8.91	52.65	478-4293-3-ND	1,500	146.00/M	6LS331KNECM
3		470	Y5P	±10	9	7.5	5	478-4294-ND‡	.27	2.52	18.20	—	—	—	6LS471KBFCT
1		470	Y5P	±10	9	5	5	478-4295-1-ND	—	10.78	63.70	478-4295-3-ND	1,500	176.00/M	6LS471KNFCM
3		1000	Y5U	±20	8	7.5	4	478-4283-ND‡	.22	2.07	14.95	—	—	—	67S102MBECA
3		1000	Y5P	±10	11	7.5	5	478-4288-N D‡	.30	2.84	20.48	—	—	—	6LS102KBHCT
1		1000	Y5P	±10	11	5	5	478-4289-1-ND	—	11.88	70.20	478-4289-3-ND	1,500	194.00/M	6LS102KNHCM
3		2200	Y5U	-20 / +50	9	5	5	478-4284-1-ND	—	4.84	28.60	478-4284-3-ND	1,500	79.00/M	67S222SAFCI
3		2200	Y5U	-20 / +50	9	5	5	478-4285-1-ND	—	9.13	53.95	478-4285-3-ND	1,500	149.00/M	67S222SAFCK
3		10000	Y5V	-20 / +50	11	10	5	478-4286-1-ND	—	6.16	36.40	478-4286-3-ND	1,500	101.00/M	68S103SCHCK

‡ Bulk

Safety Ceramic Disc Capacitors

X Function:
Applications where the capacitor failure does not lead to the danger of electrical shock. There are 3 subclasses related to the peak voltage of the impulses superimposed to the main voltage; Subclass X1: Impulses up to 4kV; Subclass X2: impulses up to 2.5kV.

Y Function:
Applications where the capacitor failure may lead to the danger of electrical shock. There are 4 subclasses related to the peak voltage of the impulses applied before life test. Subclass Y1: Impulses up to 8kV; Subclass Y2: Impulses up to 5kV; Subclass Y3: Rated for 250VAC without impulses.

Standard		61V Certificate Number	61V Rated Voltage	61V Climatic Category	62O Certificate Number	62O Rated Voltage	62O Climatic Category	65N Certificate Number	65N Rated Voltage	65N Climatic Category
	UL 1414	E 147842 (N)	250 VAC	—	E 147842 (N)	250 VAC	—	E 147842 (N)	250 VAC	—
	CAN/CSA - C22.2 No. 1-94	LR 100430-2	250 VAC	—	LR 100430-1	250 VAC	—	—	—	—
VDE	DIN BDE 0560 Part 2	—	—	40/85/21/C	76830 76804	400 VAC	25/85/21	—	—	—
	DIN EN 132400: 1995 IEC 384-14: 1993	94612 94610 94634	X1: 400 VAC Y1: 250 VAC		101384	X1: 400 VAC Y1: 250 VAC	40/85/21/C	— — —	— — —	— — —
	EN 132400: 1994 IEC 384-14: 1993	V4551	X1: 400 VAC Y1: 250 VAC	40/125/21/C	V4635	X1: 400 VAC Y2: 250 VAC	40/125/21/C	—	—	—

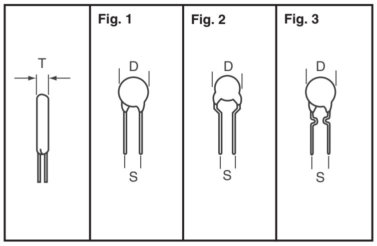

Fig.	Cap. (pF)	Tolerance (%)	Dimension (mm) D	S	T	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
X1/Y1 — Test Voltage 4kVAC													
1	470	±20	8	10	4	478-4300-ND‡	.29	2.79	20.15	—	—	—	61V471MCECT
1	1000	±20	8	10	4	478-4296-ND‡	.41	3.92	28.28	—	—	—	61V102MCECT
1	2200	±20	11	10	5	478-4297-ND‡	.47	4.46	32.24	—	—	—	61V222MCHCA
1	2200	±20	11	10	5	478-4298-ND‡	.53	5.00	36.08	—	—	—	61V222MCHCT
2	2200	±20	10	5	5	478-4299-1-ND	—	11.11	65.65	478-4299-3-ND◊	1,000	182.00	61V222MNGCM
1	4700	-20 / +50	19	10	7	478-4301-ND‡	.58	5.49	39.65	—	—	—	61V472SCMCT
X1/Y2 — Test Voltage 2.5kVAC													
1	1000	±20	7	7.5	4	478-4302-ND‡	.45	4.23	30.55	—	—	—	62O102MBDCA
1	1000	±20	8	7.5	4	478-4303-ND‡	.39	3.74	26.98	—	—	—	62O102MBECA
1	1000	±20	8	7.5	4	478-4304-1-ND	—	9.68	57.20	478-4304-2-ND	1,500	158.00/M	62O102MBECH
2	1000	±20	8	7.5	4	478-4306-1-ND	—	11.33	66.95	478-4306-2-ND	1,000	185.00	62O102MQECS
2	1000	±20	8	7.5	4	478-4307-1-ND	—	11.33	66.95	478-4307-2-ND	1,000	185.00	62O102MQEIS
1	2200	±20	11	10	5	478-4308-ND‡	.64	6.03	43.55	—	—	—	62O222MCHCA
1	4700	±20	15	7.5	6	478-4309-ND‡	.89	8.46	61.10	—	—	—	62O472MBKCA
3	4700	-20 / +50	15	10	6	478-4310-ND‡	.93	8.78	63.38	—	—	—	62O472SWKCE
X2/Y3 — Test Voltage 1.5kVAC													
1	4700	±20	15	7.5	6	478-4312-ND‡	.34	3.24	23.40	—	—	—	65N472MBKCA
1	4700	-20 / +50	15	7.5	6	478-4313-ND‡	.52	4.95	35.75	—	—	—	65N472SBKCT
3	4700	-20 / +50	15	7.5	6	478-4314-ND‡	.74	7.02	50.70	—	—	—	65N472SRKCT
1	10000	±20	16	7.5	7	478-4311-1-ND	—	17.93	105.95	478-4311-3-ND◊	500	146.00	65N103MBLCP

◊ Ammo Pack ‡ Bulk

AVX *NEW!* DIPGuard® MD Series Leaded Ceramic Capacitors

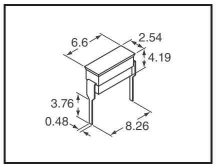

Dielectric	VDC	Capacitance	Capacitance Tolerance	Digi-Key Part No.	Pricing 1	10	100	500	AVX Part No.
X7R	100	10000pF	±10%	478-4875-ND	1.20	8.82	63.00	226.80	MD011C103KAB
	50	10000pF	±10%	478-4874-ND	1.06	7.81	55.75	200.70	MD015C103KAB
		.10µF	±10%	478-4873-ND	1.47	10.85	77.50	279.00	MD015C104KAB
		.10µF	±20%	478-4872-ND	1.20	8.82	63.00	226.80	MD015C104MAB
Z5U	50	10000pF	±20%	478-4871-ND	.75	5.53	39.50	142.20	MD015E103MAB
		.10µF	±20%	478-4870-ND	.88	6.48	46.25	166.50	MD015E104MAB

SpinGuard® Axial Leaded Ceramic Capacitors

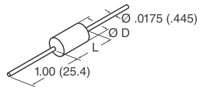

The SpinGuard series is the industry leading conformally coated axial leaded multilayer capacitor.
Applications: • Decoupling • Filtering

Dielec-tric	VDC	Cap.	Cap. Tol. (%)	Dimensions - Inch (mm)		Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		AVX Part No.
				L Max.	D Max.		1	10	100	1,000		Qty.	Pricing	
C0G (NP0)	200	22pF	±5	.170 (4.32)	.100 (2.54)	478-3142-1-ND◆	.19	1.85	13.33	92.25	478-3142-2-ND◆	7,500	62.00/M	SA102A220JAR
		100pF		.170 (4.32)	.100 (2.54)	478-2425-1-ND	.16	1.53	11.05	76.50	—	—	—	SA102A101JAA
		100pF		.170 (4.32)	.100 (2.54)	478-3141-1-ND◆	.19	1.85	13.33	92.25	478-3141-2-ND◆	7,500	62.00/M	SA102A101JAR
	100	470pF	±5	.118 (3.00)	.090 (2.30)	478-4841-1-ND◆ ***NEW!***	.31	2.93	21.13	146.25	478-4841-2-ND◆ ***NEW!***	7,500	98.00/M	SA101A471JAR
	50	1000pF	±5	.170 (4.32)	.100 (2.54)	478-2431-1-ND	.19	1.80	13.00	90.00	—	—	—	SA105A102JAA
		1000pF		.170 (4.32)	.100 (2.54)	478-3147-1-ND◆	.19	1.80	13.00	90.00	478-3147-2-ND◆	7,500	60.00/M	SA105A102JAR
X5R	10	3.3µF	±10	.170 (4.32)	.100 (2.54)	478-3974-1-ND	1.02	9.68	69.88	483.75	478-3974-2-ND	7,500	323.00/M	SA10ZD335KAA
X7R	100	1000pF	±10	.170 (4.32)	.100 (2.54)	478-3143-1-ND◆	.16	1.53	11.05	76.50	478-3143-2-ND◆	7,500	51.00/M	SA101C102KAR
		4700pF		.118 (3.00)	.090 (2.30)	478-4842-1-ND◆ ***NEW!***	.28	2.66	19.18	132.75	478-4842-2-ND◆ ***NEW!***	7,500	89.00/M	SA101C472KAR
		10000pF		.170 (4.32)	.100 (2.54)	478-3144-1-ND◆	.16	1.53	11.05	76.50	478-3144-2-ND◆	7,500	51.00/M	SA101C103KAR
		56000pF		.290 (7.37)	.150 (3.81)	478-2429-1-ND	.31	2.93	21.13	146.25	478-2429-2-ND	5,000	98.00/M	SA301C563KAA
		56000pF		.290 (7.37)	.150 (3.81)	478-3145-1-ND◆	.37	3.51	25.35	175.50	478-3145-2-ND◆	5,000	117.00/M	SA301C563KAR
		.10µF	±10	.290 (7.37)	.150 (3.81)	478-2430-1-ND	.32	3.06	22.10	153.00	478-2430-2-ND	5,000	102.00/M	SA301C104KAA
		.10µF		.290 (7.37)	.150 (3.81)	478-3146-1-ND◆	.39	3.69	26.65	184.50	478-3146-2-ND◆	5,000	123.00/M	SA301C104KAR
	50	10000pF	±10	.170 (4.32)	.100 (2.54)	478-3148-1-ND◆	.16	1.49	10.73	74.25	478-3148-2-ND◆	7,500	50.00/M	SA105C103KAR
		47000pF		.170 (4.32)	.100 (2.54)	478-2433-1-ND	.18	1.67	12.03	83.25	—	—	—	SA105C473KAA
		47000pF		.170 (4.32)	.100 (2.54)	478-3149-1-ND◆	.18	1.67	12.03	83.25	—	—	—	SA105C473KAR
		.10µF		.170 (4.32)	.100 (2.54)	478-3150-1-ND◆	.17	1.62	11.70	81.00	478-3150-2-ND◆	7,500	54.00/M	SA105C104KAR
		.10µF		.170 (4.32)	.120 (3.05)	478-3151-1-ND◆	.19	1.85	13.33	92.25	478-3151-2-ND◆	5,000	62.00/M	SA115C104KAR
		.10µF	±10	.260 (6.60)	.100 (2.54)	478-2436-1-ND	.21	2.03	14.63	101.25	478-2436-2-ND	5,000	68.00/M	SA205C104KAA
		.10µF		.260 (6.60)	.100 (2.54)	478-3152-1-ND◆	.21	2.03	14.63	101.25	478-3152-2-ND◆	5,000	68.00/M	SA205C104KAR
		.22µF		.290 (7.37)	.150 (3.81)	478-3153-1-ND◆	.64	6.08	43.88	303.75	478-3153-2-ND◆	5,000	203.00/M	SA305C224KAR
Z5U	100	.10µF	±20	.170 (4.32)	.120 (3.05)	478-2438-1-ND	.13	1.26	9.10	63.00	—	—	—	SA111E104MAA
		.10µF		.170 (4.32)	.120 (3.05)	478-3154-1-ND◆	.16	1.53	11.05	76.50	478-3154-2-ND◆	5,000	51.00/M	SA111E104MAR
	50	10000pF	±20	.170 (4.32)	.100 (2.54)	478-3155-1-ND◆	.13	1.26	9.10	63.00	478-3155-2-ND◆	7,500	42.00/M	SA105E103MAR
		.10µF	±20	.170 (4.32)	.100 (2.54)	478-3156-1-ND◆	.16	1.53	11.05	76.50	478-3156-2-ND◆	7,500	51.00/M	SA105E104MAR
		.10µF	-20/+80	.170 (4.32)	.100 (2.54)	478-3157-1-ND◆	.13	1.26	9.10	63.00	478-3157-2-ND◆	7,500	42.00/M	SA105E104ZAR
		.47µF	±20	.290 (7.37)	.150 (3.81)	478-2442-1-ND	.43	4.05	29.25	202.50	—	—	—	SA305E474MAA
		.47µF	±20	.290 (7.37)	.150 (3.81)	478-3158-1-ND◆	.43	4.05	29.25	202.50	478-3158-2-ND◆	5,000	135.00/M	SA305E474MAR
		1.0µF	±20	.290 (7.37)	.150 (3.81)	478-3159-1-ND◆	.74	6.98	50.38	348.75	478-3159-2-ND◆	5,000	233.00/M	SA305E105MAR

◆ ***RoHS Compliant***

SkyCap® Radial Leaded Ceramic Capacitors

The SkyCap series is the industry leading conformally coated radial leaded multilayer capacitor.
Applications: • Decoupling • Filtering • Automotive

Size Code	Dimensions – Inch (mm)			
	W Max.	H Max.	T Max.	L.S
15	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)
20	.200 (5.08)	.200 (5.08)	.125 (3.175)	.100 (2.54)
21	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)
30	.300 (7.62)	.300 (7.62)	.150 (3.81)	.200 (5.08)
40	.400 (10.16)	.400 (10.16)	.150 (3.81)	.200 (5.08)

Fig. 1

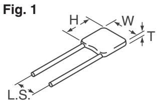

Fig. 2

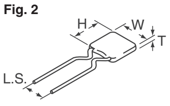

Fig.	Dielec-tric	Size Code	VDC	Cap.	Cap. Tol. (%)	Digi-Key Part No.	Pricing 1	10	100	AVX Part No.
1	C0G (NP0)	15	200	10pF	±10	478-3160-ND◆	.20	1.51	10.75	SR152A100KAR
				15pF		478-3161-ND◆	.20	1.51	10.75	SR152A150KAR
				22pF		478-3162-ND◆	.20	1.51	10.75	SR152A220KAR
				33pF		478-3163-ND◆	.20	1.51	10.75	SR152A330KAR
				47pF		478-3164-ND◆	.20	1.51	10.75	SR152A470KAR
				68pF	±10	478-2449-ND	.20	1.51	10.75	SR152A680KAA
				68pF		478-3165-ND◆	.20	1.51	10.75	SR152A680KAR
				100pF		478-3166-ND◆	.17	1.26	9.00	SR151A101KAR
			100	10pF	±5	478-4843-ND◆ ***NEW!***	.36	2.66	18.98	SR151A100JAR
				15pF		478-4845-ND◆ ***NEW!***	.36	2.66	18.98	SR151A150JAR
				22pF		478-4846-ND◆ ***NEW!***	.36	2.66	18.98	SR151A220JAR
				27pF		478-4848-ND◆ ***NEW!***	.36	2.66	18.98	SR151A270JAR
				33pF		478-4849-ND◆ ***NEW!***	.36	2.66	18.98	SR151A330JAR
				47pF	±5	478-4850-ND◆ ***NEW!***	.36	2.66	18.98	SR151A470JAR
				100pF	±5	478-4844-ND◆ ***NEW!***	.36	2.66	18.98	SR151A101JAR
				150pF	±10	478-3167-ND◆	.17	1.26	9.00	SR151A151KAR
				220pF	±5	478-4847-ND◆ ***NEW!***	.40	2.98	21.28	SR151A221JAR
				220pF	±10	478-3168-ND◆	.19	1.37	9.75	SR151A221KAR
				330pF	±10	478-3169-ND◆	.19	1.44	10.25	SR151A331KAR
				470pF	±5	478-4851-ND◆ ***NEW!***	.46	3.38	24.15	SR151A471JAR
				470pF	±10	478-3170-ND◆	.20	1.51	10.75	SR151A471KAR
				680pF	±10	478-3171-ND◆	.22	1.61	11.50	SR151A681KAR
		20	100	1000pF	±5	478-4854-ND◆ ***NEW!***	.57	4.23	30.20	SR201A102JAR
		30	100	10000pF	±5	478-4867-ND◆ ***NEW!***	1.73	12.76	91.15	SR301A103JAR
2	C0G (NP0)	21	100	22pF	±5	478-4860-ND◆ ***NEW!***	.40	2.98	21.28	SR211A220JAR
				100pF	±10	478-4495-ND◆	.45	3.29	23.50	AR211A101K4R
				1000pF	±5	478-4859-ND◆ ***NEW!***	.57	4.23	30.20	SR211A102JAR
				1000pF	±10	478-4496-ND◆	.51	3.78	27.00	AR211A102K4R
1	X7R	15	100	1000pF	±10	478-2456-ND	.19	1.44	10.25	SR151C102KAA
				1000pF		478-3172-ND◆	.19	1.44	10.25	SR151C102KAR
				1500pF		478-3173-ND◆	.19	1.44	10.25	SR151C152KAR
				2200pF		478-2458-ND	.24	1.79	12.75	SR151C222KAA
				2200pF		478-3174-ND◆	.24	1.79	12.75	SR151C222KAR
				3300pF	±10	478-3175-ND◆	.24	1.79	12.75	SR151C332KAR
				4700pF		478-2460-ND	.27	1.96	14.00	SR151C472KAA
				4700pF		478-3176-ND◆	.27	1.96	14.00	SR151C472KAR
				6800pF		478-3177-ND◆	.27	1.96	14.00	SR151C682KAR
				10000pF		478-3178-ND◆	.24	1.75	12.50	SR151C103KAR
			50	10000pF	±10	478-4852-ND◆ ***NEW!***	.29	2.14	15.25	SR155C103KAR
				10000pF		478-4497-ND◆	.32	2.35	16.78	AR155C103K4R
				.10µF		478-4498-ND◆	.38	2.80	20.00	AR155C104K4R
		20	100	33000pF	±10	478-4856-ND◆ ***NEW!***	.40	2.98	21.28	SR201C333KAR
				.10µF		478-4855-ND◆ ***NEW!***	.46	3.38	24.15	SR201C104KAR
			50	68000pF	±10	478-3186-ND◆	.21	1.58	11.25	SR205C683KAR
				.10µF		478-3187-ND◆	.24	1.79	12.75	SR205C104KAR

Fig.	Dielec-tric	Size Code	VDC	Cap.	Cap. Tol. (%)	Digi-Key Part No.	Pricing 1	10	100	AVX Part No.
1	X7R	30	50	.47µF	±10	478-3189-ND◆	1.01	7.46	53.25	SR305C474KAR
				.47µF		478-4503-ND◆	2.35	17.29	123.50	AR305C474K4R
				1.0µF		478-4657-ND◆	1.51	10.06	72.45	SR305C105KAR
		40	100	1.0µF	±10	478-4504-ND◆	9.02	66.43	474.50	AR401C105K4R
				1.0µF		478-4869-ND◆ ***NEW!***	8.19	60.38	431.25	SR401C105KAR
2	X7R	21	100	1000pF	±10	478-4861-ND◆ ***NEW!***	.38	2.78	19.85	SR211C102KAR
				1000pF		478-4499-ND◆	.42	3.08	22.00	AR211C102K4R
				10000pF		478-4500-ND◆	.42	3.08	22.00	AR211C103K4R
				10000pF		478-3179-ND◆	.21	1.54	11.00	SR211C103KAR
				15000pF		478-2464-ND	.21	1.58	11.25	SR211C153KAA
				15000pF	±10	478-3180-ND◆	.21	1.58	11.25	SR211C153KAR
				22000pF		478-3181-ND◆	.24	1.79	12.75	SR211C223KAR
				33000pF		478-2466-ND	.24	1.79	12.75	SR211C333KAA
				33000pF		478-3182-ND◆	.24	1.79	12.75	SR211C333KAR
				47000pF		478-3183-ND◆	.24	1.79	12.75	SR211C473KAR
				68000pF	±10	478-3184-ND◆	.24	1.79	12.75	SR211C683KAR
				.10µF		478-3185-ND◆	.24	1.79	12.75	SR211C104KAR
				.10µF		478-4501-ND◆	.51	3.73	26.63	AR211C104K4R
				1.0µF		478-4473-ND◆	1.83	13.48	96.25	SR211C105KAR
			50	10000pF	±10	478-4862-ND◆ ***NEW!***	.38	2.78	19.85	SR215C103KAR
				.10µF		478-3188-ND◆	.24	1.79	12.75	SR215C104KAR
				.22µF		478-4502-ND◆	1.16	8.58	61.25	AR215C224K4R
				.22µF		478-4863-ND◆ ***NEW!***	1.01	7.45	53.20	SR215C224KAR
				1.0µF	±20	478-4472-ND◆	1.69	12.42	88.70	SR215C105MAR
2	X8R	21	50	1000pF	±10	478-4492-ND◆	.50	3.68	26.25	AR215F102K4R
				10000pF		478-4493-ND◆	.50	3.68	26.25	AR215F103K4R
				.10µF		478-4494-ND◆	.57	4.20	30.00	AR215F104K4R
1	Z5U	30	50	1.0µF	±20	478-3195-ND◆	.59	4.34	31.00	SR305E105MAR
			100	1.0µF	±20	478-4868-ND◆ ***NEW!***	1.15	8.45	60.38	SR301E105MAR
		15	50	10000pF	±20	478-4853-ND◆ ***NEW!***	.27	2.01	14.38	SR155E103MAR
		20	50	.10µF	±20	478-3192-ND◆	.16	1.19	8.50	SR205E104MAR
				.22µF		478-4857-ND◆ ***NEW!***	.40	2.94	21.00	SR205E224MAR
				.47µF		478-4858-ND◆ ***NEW!***	.55	4.03	28.75	SR205E474MAR
2	Z5U	21	100	.10µF	-20/+80	478-2474-ND	.27	1.96	14.00	SR211E104ZAA
				.10µF		478-3190-ND◆	.27	1.96	14.00	SR211E104ZAR
				.22µF		478-2475-ND	.35	2.56	18.25	SR211E224ZAA
				.22µF		478-3191-ND◆	.35	2.56	18.25	SR211E224ZAR
			50	.10µF	±20	478-3193-ND◆	.15	1.12	8.00	SR215E104MAR
				.22µF		478-4865-ND◆ ***NEW!***	.40	2.94	21.00	SR215E224MAR
				.33µF		478-2478-ND	.37	2.70	19.25	SR215E334MAA
				.33µF		478-3194-ND◆	.37	2.70	19.25	SR215E334MAR
				.47µF		478-4866-ND◆ ***NEW!***	.55	4.03	28.75	SR215E474MAR
				1.0µF		478-4864-ND◆ ***NEW!***	.86	6.36	45.43	SR215E105MAR

◆ ***RoHS Compliant***

SE/SK Series SMPS Radial Leaded Ceramic Capacitors

The SE/SK series capacitors from AVX are conformally coated MLC capacitors for input or output filtering in switch mode power supplies. They are specially processed to handle high currents and are low enough in cost for commercial SMPS applications.

Specifications:

- Operating Temperature: **C0G and X7R:** -55°C ~ 125°C, Z5U: 10°C ~ 85°C
- Lead Length: 25.4mm minimum

Size Code	Dimensions - (mm) L Max.	H Max.	LS Nom.	LD Nom.
SK01	5.08	5.08	5.08	0.508
SK03	7.62	7.62	5.08	0.508
SK04	10.2	10.2	5.08	0.508
SK05/SK55/ SE05	12.7	12.7	10.2	0.635
SK06	22.1	15.2	20.1	0.813
SK59	17.0	13.7	14.6	0.635

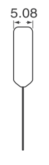

Fig. 1

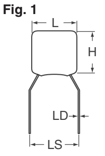

Fig. 2

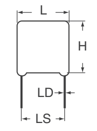

Fig. 3

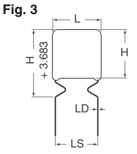

Fig.	Dielec-tric	Size Code	VDC	Cap.	Cap. Tol. (%)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
1	X7R	SK01	500	10000pF	±10	478-4011-ND	3.47	2.56	1.83	SK017C103KAR
2	C0G	SK04	500	10000pF	±10	478-4020-ND	10.40	7.67	5.48	SK047A103KAR
2	X7R	SK05	50	.10µF	±20	478-4026-ND	10.78	7.95	5.68	SK055C104MAR
		SK04	50	3.3µF	±10	478-4019-ND	10.40	7.67	5.48	SK045C335KAR
		SK05	50	5.6µF	±10	478-4027-ND	10.78	7.95	5.68	SK055C565KAR
		SK04	100	2.7µF	±10	478-4016-ND	10.40	7.67	5.48	SK041C275KAR
		SE05	100	8.2µF	±10	478-4010-ND	11.88	8.75	6.25	SE051C825KAR
		SK03	200	.22µF	±10	478-4012-ND	5.70	4.20	3.00	SK032C224KAR
		SK03	200	.56µF		478-4013-ND	5.65	4.17	2.98	SK032C564KAR
		SK05	200	1.0µF		478-4024-ND	10.78	7.95	5.68	SK052C105KAR
		SK03	500	.10µF		478-4014-ND	5.65	4.17	2.98	SK037C104KAR
		SK03	500	.12µF		478-4015-ND	5.80	4.27	3.05	SK037C124KAR
2	X7R	SK05	500	.22µF	±10	478-4029-ND	10.78	7.95	5.68	SK057C224KAR
		SK04		.27µF	±10	478-4021-ND	10.40	7.67	5.48	SK047C274KAR
		SK05		.47µF	±10	478-4030-ND	10.78	7.95	5.68	SK057C474KAR
		SK05		.47µF	±20	478-4031-ND	10.78	7.95	5.68	SK057C474MAR
3	X7R	SK59	500	1.0µF	±10	478-4034-ND	17.91	13.20	9.43	SK597C105KAR
2	Z5U	SK04	25	10µF	-20/+80	478-4018-ND	10.40	7.67	5.48	SK043E106ZAR
		SK05	50	10µF		478-4028-ND	10.78	7.95	5.68	SK055E106ZAR
		SK04	100	4.7µF		478-4017-ND	10.40	7.67	5.48	SK041E475ZAR
		SK06	100	22µF		478-4032-ND	27.17	20.02	14.30	SK061E226ZAR
		SK05	100	6.8µF		478-4023-ND	10.78	7.95	5.68	SK051E685ZAR
		SK05	200	4.7µF		478-4025-ND	10.78	7.95	5.68	SK052E475ZAR
3	Z5U	SK55	100	6.8µF	-20/+80	478-4033-ND	10.78	7.95	5.68	SK551E685ZAR

High Voltage Leaded Ceramic Capacitors SV Series

High value, low leakage, and small size are difficult parameters to obtain in capacitors for high voltage systems. AVX's SV series lead capacitors meet these performance characteristics. These special design criteria result in significant reduction of partial discharge activity within the dielectric and having, therefore, a major impact on long-term reliability of the product. The SV high voltage radial capacitors are conformally coated with high insulation resistance, high dielectric strength epoxy eliminating the possibility of arc flashover. This series also exhibits low ESR at high frequencies. The same criteria governing the high voltage design carries the added benefits of extremely low ESR in relatively low capacitance and small packages. These caps are designed and are ideally suited for applications such as snubbers in high frequency power converters, resonators in SMPS, and high voltage coupling/DC blocking.

Specifications:

- Operating Temperature: -55°C ~ 125°C • Insulation Resistance: (25°C, at 500V) 100K MΩ min., or 1000 MΩ-µF min., whichever is less • Dissipation Factor: **C0G:** 0.15% max., **X7R:** 2.5% max.

Size Code	Dimensions - mm L Max.	H Max.	S Nom.	LD Nom.
SV01	6.35	5.59	4.32	0.64
SV02	8.13	7.11	5.59	0.64
SV03	9.40	7.62	6.99	0.64
SV04	11.4	5.59	7.62	0.64
SV05	11.9	10.2	9.52	0.64
SV06	14.0	7.11	10.16	0.64
SV07	14.5	12.7	12.1	0.64
SV08	17.0	15.2	14.6	0.64
SV09	19.6	18.3	17.1	0.64
SV13	7.62	9.14	5.08	0.51
SV14	10.2	11.7	5.08	0.51
SV15	12.7	14.2	10.2	0.64

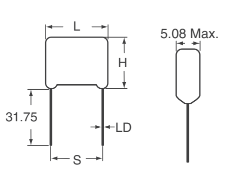

Dielec-tric	Size Code	VDC	Cap.	Cap. Tol. (%)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
C0G (NP0)	SV04	4000	82pF	±5	478-4044-ND	4.89	3.61	2.58	SV04JA820JAR
	SV02	3000	39pF	±10	478-4041-ND	4.04	2.98	2.13	SV02HA390KAR
	SV01	2000	33pF	±10	478-4038-ND	3.71	2.73	1.95	SV01GA330KAR
	SV04	2000	150pF	±10	478-4043-ND	4.89	3.61	2.58	SV04GA151KAR
	SV14	1000	10000pF	±10	478-4055-ND	10.64	7.84	5.60	SV14AA103KAR
X7R	SV03	3000	4700pF	±20	478-4042-ND	4.32	3.19	2.28	SV03HC472MAR
	SV05	2500	18000pF	±10	478-4046-ND	6.18	4.55	3.25	SV05WC183KAR
	SV01	2000	330pF	±10	478-4039-ND	3.71	2.73	1.95	SV01GC331KAR
	SV15	2000	33000pF	±10	478-4056-ND	11.02	8.12	5.80	SV15GC333KAR
	SV07	2000	47000pF	±10	478-4049-ND	11.50	8.47	6.05	SV07GC473KAR
	SV01	1000	470pF	±10	478-4037-ND	3.71	2.73	1.95	SV01AC471KAR
X7R	SV02	1000	4700pF	±10	478-4040-ND	4.04	2.98	2.13	SV02AC472KAR
	SV01	1000	10000pF	±10	478-4035-ND	3.71	2.73	1.95	SV01AC103KAR
	SV01	1000	10000pF	±20	478-4036-ND	3.71	2.73	1.95	SV01AC103MAR
	SV13	1000	10000pF	±20	478-4054-ND	10.64	7.84	5.60	SV13AC103MAR
	SV05	1000	.10µF	±10	478-4045-ND	6.13	4.52	3.23	SV05AC104KAR
	SV06	1000	.10µF	±10	478-4047-ND	6.79	5.01	3.58	SV06AC104KAR
	SV07	1000	.10µF	±10	478-4048-ND	11.50	8.47	6.05	SV07AC104KAR
	SV08	1000	.22µF	±10	478-4050-ND	18.29	13.48	9.63	SV08AC224KAR
	SV09	1000	.47µF	±10	478-4052-ND	20.05	14.77	10.55	SV09AC474KAR
	SV09	1000	1.0µF	±10	478-4051-ND	20.05	14.77	10.55	SV09AC105KAR

Ceramic Disc Capacitors

EIA Temperature Coefficient Code	C0G	Y5P
Capacitance Temperature Coefficient	30PPM/°C	±10%
Operating Temperature Range	-25°C ~ 85°C	-30°C ~ 85°C
Q Factor	C ≥ 30pF Q ≥ 1000, C < 30pF: Q ≥ 400 +20°C	—
Dissipation Factor	—	2.5% maximum
Insulation Resistance	10000MΩ	10000MΩ minimum

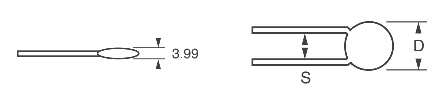

Tolerance	Dimensions (mm) D	S	Capacitance	Digi-Key Part No.	Pricing 10	100	500	1,000	Vishay Part No.
Type C0G, 100V									
±.5	5.00	6.35	10pF	1426PH-ND	2.23	17.52	63.70	93.87	D100D20C0GH63L6R
5%	5.00	6.35	15pF	1427PH-ND	1.11	8.69	31.60	46.57	D150J20C0GH63L6R
5%	5.00	6.35	18pF	1428PH-ND	1.11	8.69	31.60	46.57	D180J20C0GH63L6R
5%	5.00	6.35	22pF	1429PH-ND	1.11	8.69	31.60	46.57	D220J20C0GH63L6R
5%	5.00	6.35	27pF	1430PH-ND	1.89	14.82	53.90	79.43	D270J20C0GH63L6R
5%	5.00	6.35	33pF	1431PH-ND	1.89	14.82	53.90	79.43	D330J20C0GH63L6R
5%	6.50	6.35	56pF	1433PH-ND	1.89	14.82	53.90	79.43	D560J25C0GH63L6R
5%	6.50	6.35	68pF	1434PH-ND	1.89	14.82	53.90	79.43	D680J25C0GH63L6R
5%	7.37	6.35	100pF	1435PH-ND	3.59	28.22	102.60	151.20	D101J29C0GH63L6R
5%	7.37	6.35	120pF	1436PH-ND	4.06	31.93	116.10	171.09	D121J33C0GH63L6R
5%	10.01	6.35	220pF	1438PH-ND	4.06	31.93	116.10	171.09	D221J39C0GH63L6R
Type C0G, 500V									
5%	5.00	6.35	15pF	1439PH-ND	2.39	18.76	68.20	100.50	D150J20C0GL63L6R
5%	6.50	6.35	22pF	1440PH-ND	2.39	18.76	68.20	100.50	D220J25C0GL63L6R
Type Y5P, 100V									
10%	5.00	6.35	100pF	1441PH-ND	1.22	9.60	34.90	51.43	D101K20Y5PH63L6R
10%	5.00	6.35	220pF	1442PH-ND	1.22	9.60	34.90	51.43	D221K20Y5PH63L6R
10%	5.00	6.35	330pF	1443PH-ND	1.22	9.60	34.90	51.43	D331K20Y5PH63L6R
10%	5.00	6.35	470pF	1444PH-ND	1.22	9.60	34.90	51.43	D471K20Y5PH63L6R
10%	5.00	6.35	1000pF	1445PH-ND	1.22	9.60	34.90	51.43	D102K20Y5PH63L6R
10%	6.50	6.35	2200pF	1446PH-ND	1.22	9.60	34.90	51.43	D222K25Y5PH63L6R
10%	8.83	6.35	2700pF	1447PH-ND	2.91	22.88	83.20	122.61	D272K33Y5PL63L6R
10%	7.37	6.35	3300pF	1448PH-ND	1.53	11.99	43.60	64.25	D332K29Y5PH63L6R
10%	8.83	6.35	4700pF	1449PH-ND	1.53	11.99	43.60	64.25	D472K33Y5PH63L6R
Type Y5P, 500V									
10%	5.00	6.35	100pF	1451PH-ND	1.97	15.51	56.40	83.12	D101K20Y5PL63L6R
10%	5.00	6.35	150pF	1452PH-ND	1.97	15.51	56.40	83.12	D151K20Y5PL63L6R
10%	5.00	6.35	220pF	1453PH-ND	1.97	15.51	56.40	83.12	D221K20Y5PL63L6R
10%	5.00	6.35	330pF	1455PH-ND	1.97	15.51	56.40	83.12	D331K20Y5PL63L6R
10%	5.00	6.35	470pF	1456PH-ND	1.97	15.51	56.40	83.12	D471K20Y5PL63L6R
10%	6.50	6.35	1000pF	1457PH-ND	1.97	15.51	56.40	83.12	D102K25Y5PL63L6R
10%	9.91	9.52	2200pF	1458PH-ND	1.55	12.18	44.30	65.28	D222K33Y5PL63L0R
10%	17.53	9.52	0.01µF	1460PH-ND	1.66	13.01	47.30	69.71	D103K69Y5PL63L0R

Panasonic

High Voltage Ceramic Disc Capacitors

KBP Characteristics Y5P, 1 to 3 kVDC

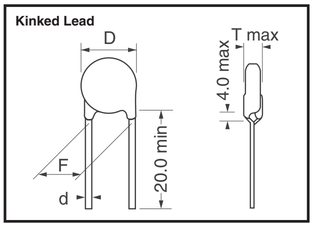

Features: • Wide operating temperature: -25° ~ 125°C • Improved in "Voltage vs. Temperature Rise" through low-loss ceramic dielectric material applied • Flame-retardant insulating coating applied • Easy mounting through Kinked Lead

Recommended Applications: • Snubber circuit of switching power supply • Horizontal resonance circuit of TV and CRT display • Inverter type lighting apparatus • High voltage pulse and DC circuits

Specifications: • **Chacteristic:** KBP • **Operating Temperature Range:** -25° ~ 125°C • **Rated Voltage:** 1-3 kVDC • **Dielectric Withstanding Voltage:** Rated voltage 1 to 3 kVDC: 200% of rated voltage for 1 to 5 seconds • **Capacitance:** Within the specified tolerance when measured at 1 kHz ± 20%, 1 to 5 Vrms, and 20°C • **Q or Dissipation Factor:** Tan∂ ≥ 0.025 • **Insulation Resistance:** 10,000MΩ minimum at 500VDC 1 minute electrification • **Temperature Characteristics:** Temperature Coefficient: +350 ~ -1000 ppm/°C (Temperature Range: 20° ~ 85°C) • Y5P: Maximum capacitance change is ±10% over temperature range of -25° ~ 85°C

Volt-age	Capac-itance	Tolerance	Temp. Char.	Dimensions (mm)				Kinked Lead - *RoHS Compliant*					Straight Lead (Not recommended for New Design)				
								Digi-Key Part No.	Pricing			Panasonic Part No.	Digi-Key Part No.	Pricing			Panasonic Part No.
				D	T	F	d		10	100	1,000			10	100	1000	
1K	100pF	±10%	Y5P	6.0	4.5	5.00	.6	P9530-ND	2.20	14.25	62.85	ECK-A3A101KBP	—	—	—	—	—
	120pF	±10%	Y5P	6.0	4.5	5.00	.6	P9531-ND	2.20	14.25	62.85	ECK-A3A121KBP	—	—	—	—	—
	150pF	±10%	Y5P	6.0	4.5	5.00	.6	P9532-ND	2.20	14.25	62.85	ECK-A3A151KBP	—	—	—	—	—
	180pF	±10%	Y5P	6.0	4.5	5.00	.6	P9533-ND	2.20	14.25	62.85	ECK-A3A181KBP	—	—	—	—	—
	220pF	±10%	Y5P	6.0	4.5	5.00	.6	P9534-ND	2.20	14.25	62.85	ECK-A3A221KBP	—	—	—	—	—
	270pF	±10%	Y5P	6.0	4.5	5.00	.6	P9535-ND	2.20	14.25	62.85	ECK-A3A271KBP	P4121-ND	2.54	17.88	97.50	ECK-D3A271KBP
	330pF	±10%	Y5P	8.0	4.5	5.00	.6	P9536-ND	2.20	14.25	62.85	ECK-A3A331KBP	—	—	—	—	—
	390pF	±20%	Y5P	8.0	4.5	5.00	.6	P9537-ND	2.20	14.25	62.85	ECK-A3A391KBP	P4123-ND	2.98	21.25	119.00	ECK-D3A391KBP
	470pF	±10%	Y5P	8.0	4.5	5.00	.6	P9538-ND	2.20	14.25	62.85	ECK-A3A471KBP	—	—	—	—	—
	560pF	±10%	Y5P	8.0	4.5	5.00	.6	P9539-ND	2.51	16.29	71.85	ECK-A3A561KBP	P4125-ND	2.98	21.25	119.00	ECK-D3A561KBP
	680pF	±10%	Y5P	8.0	4.5	5.00	.6	P9540-ND	2.51	16.29	71.85	ECK-A3A681KBP	P4126-ND	3.12	22.00	120.00	ECK-D3A681KBP
	820pF	±10%	Y5P	10.0	4.5	5.00	.6	P9541-ND	2.51	16.29	71.85	ECK-A3A821KBP	P4127-ND	2.98	21.25	119.00	ECK-D3A821KBP
	1000pF	±10%	Y5P	10.0	4.5	5.00	.6	P9542-ND	2.83	18.33	80.85	ECK-A3A102KBP	—	—	—	—	—
	1200pF	±10%	Y5P	10.0	4.5	5.00	.6	P9543-ND	2.83	18.33	80.85	ECK-A3A122KBP	—	—	—	—	—
	1500pF	±10%	Y5P	11.0	4.5	5.00	.6	P9544-ND	2.83	18.33	80.85	ECK-A3A152KBP	—	—	—	—	—
	1800pF	±10%	Y5P	11.0	4.5	5.00	.6	P9545-ND	3.62	23.43	103.35	ECK-A3A182KBP	—	—	—	—	—
	2200pF	±10%	Y5P	13.0	4.5	5.00	.6	P9546-ND	3.44	23.07	117.46	ECK-A3A222KBP	P4199-ND	3.71	26.50	148.40	ECK-D3A222KBP
	2700pF	±10%	Y5P	13.0	4.5	5.00	.6	P9547-ND	3.44	23.07	117.46	ECK-A3A272KBP	—	—	—	—	—
	3300pF	±10%	Y5P	13.5	4.5	10.00	.65	P9548-ND	4.73	31.71	161.42	ECK-A3A332KBP	—	—	—	—	—
	3900pF	±10%	Y5P	15.5	4.5	10.00	.65	P9549-ND	4.73	31.71	161.42	ECK-A3A392KBP	—	—	—	—	—
	4700pF	±10%	Y5P	18.0	4.5	10.00	.65	P9550-ND	4.69	31.01	186.03	ECK-A3A472KBP	—	—	—	—	—
	5600pF	±10%	Y5P	18.0	4.5	10.00	.65	P9551-ND	5.50	36.38	218.30	ECK-A3A562KBP	—	—	—	—	—
	10000pF	±10%	Y5P	22.0	5.0	10.00	.65	P9552-ND	9.91	74.30	439.17	ECK-A3A103KBP	—	—	—	—	—
2K	100pF	±10%	Y5P	7.0	5.0	7.5	.65	P9553-ND	3.32	22.25	113.26	ECK-A3D101KBP	—	—	—	—	—
	120pF	±10%	Y5P	7.0	5.0	7.5	.65	P9554-ND	3.32	22.25	113.26	ECK-A3D121KBP	P4475A-ND	3.78	27.00	151.20	ECK-D3D121KBP
	150pF	±10%	Y5P	7.0	5.0	7.5	.65	P9555-ND	3.32	22.25	113.26	ECK-A3D151KBP	—	—	—	—	—
	180pF	±10%	Y5P	7.0	5.0	7.5	.65	P9556-ND	3.32	22.25	113.26	ECK-A3D181KBP	—	—	—	—	—
	220pF	±10%	Y5P	7.0	5.0	7.5	.65	P9557-ND	3.32	22.25	113.26	ECK-A3D221KBP	—	—	—	—	—
	270pF	±10%	Y5P	7.0	5.0	7.5	.65	P9558-ND	3.32	22.25	113.26	ECK-A3D271KBP	—	—	—	—	—
	330pF	±10%	Y5P	7.0	5.0	7.5	.65	P9559-ND	3.32	22.25	113.26	ECK-A3D331KBP	—	—	—	—	—
	390pF	±10%	Y5P	7.0	5.0	7.5	.65	P9560-ND	3.32	22.25	113.26	ECK-A3D391KBP	P4481A-ND	3.78	27.00	151.20	ECK-D3D391KBP
	470pF	±10%	Y5P	7.5	5.0	7.5	.65	P9561-ND	3.32	22.25	113.26	ECK-A3D471KBP	—	—	—	—	—
	560pF	±10%	Y5P	8.0	5.0	7.5	.65	P9562-ND	3.32	22.25	113.26	ECK-A3D561KBP	—	—	—	—	—
	680pF	±10%	Y5P	9.0	5.0	7.5	.65	P9563-ND	3.93	26.35	134.12	ECK-A3D681KBP	—	—	—	—	—
	820pF	±10%	Y5P	9.0	5.0	7.5	.65	P9564-ND	3.93	26.35	134.12	ECK-A3D821KBP	P4485A-ND	4.27	30.50	170.80	ECK-D3D821KBP
	1000pF	±10%	Y5P	10.0	5.0	7.5	.65	P9565-ND	5.22	35.01	178.22	ECK-A3D102KBP	—	—	—	—	—
	1200pF	±10%	Y5P	10.5	5.0	7.5	.65	P9566-ND	5.22	35.01	178.22	ECK-A3D122KBP	—	—	—	—	—
	1500pF	±10%	Y5P	12.0	5.0	7.5	.65	P9567-ND	4.94	32.69	196.16	ECK-A3D152KBP	—	—	—	—	—
	1800pF	±10%	Y5P	12.5	5.0	7.5	.65	P9568-ND	4.94	32.69	196.16	ECK-A3D182KBP	—	—	—	—	—
	2200pF	±10%	Y5P	14.0	5.0	10.0	.65	P9569-ND	5.55	36.72	220.32	ECK-A3D222KBP	—	—	—	—	—
	2700pF	±10%	Y5P	16.0	5.0	10.0	.65	P9570-ND	5.55	36.72	220.32	ECK-A3D272KBP	—	—	—	—	—
	3300pF	±10%	Y5P	17.0	5.0	10.0	.65	P9571-ND	7.03	46.51	279.05	ECK-A3D332KBP	—	—	—	—	—
	3900pF	±10%	Y5P	18.0	5.0	10.0	.65	P9572-ND	7.03	46.51	279.05	ECK-A3D392KBP	—	—	—	—	—
	4700pF	±10%	Y5P	25.0	5.0	10.0	.65	P9573-ND	8.85	66.38	392.35	ECK-A3D472KBP	—	—	—	—	—
	5600pF	±10%	Y5P	25.0	5.0	10.0	.65	P9574-ND	8.85	66.38	392.35	ECK-A3D562KBP	—	—	—	—	—
3K	100pF	±10%	Y5P	7.5	6.0	7.5	.65	P9575-ND	3.44	23.07	117.46	ECK-A3F101KBP	—	—	—	—	—
	120pF	±10%	Y5P	7.5	6.0	7.5	.65	P9576-ND	3.44	23.07	117.46	ECK-A3F121KBP	P4497A-ND	3.85	27.50	154.00	ECK-D3F121KBP
	150pF	±10%	Y5P	7.5	6.0	7.5	.65	P9577-ND	3.44	23.07	117.46	ECK-A3F151KBP	—	—	—	—	—
	180pF	±10%	Y5P	7.5	6.0	7.5	.65	P9578-ND	3.44	23.07	117.46	ECK-A3F181KBP	—	—	—	—	—
	220pF	±10%	Y5P	7.5	6.0	7.5	.65	P9579-ND	3.44	23.07	117.46	ECK-A3F221KBP	—	—	—	—	—
	270pF	±10%	Y5P	7.5	6.0	7.5	.65	P9580-ND	3.44	23.07	117.46	ECK-A3F271KBP	P4501A-ND	3.85	27.50	154.00	ECK-D3F271KBP
	330pF	±10%	Y5P	8.0	6.0	7.5	.65	P9581-ND	3.44	23.07	117.46	ECK-A3F331KBP	P4502A-ND	4.10	29.25	163.80	ECK-D3F331KBP
	390pF	±10%	Y5P	9.0	6.0	7.5	.65	P9582-ND	3.99	26.76	136.22	ECK-A3F391KBP	—	—	—	—	—
	470pF	±10%	Y5P	9.5	6.0	7.5	.65	P9583-ND	3.99	26.76	136.22	ECK-A3F471KBP	—	—	—	—	—
	560pF	±10%	Y5P	10.0	6.0	7.5	.65	P9584-ND	3.99	26.76	136.22	ECK-A3F561KBP	—	—	—	—	—
	680pF	±10%	Y5P	11.0	6.0	7.5	.65	P9585-ND	4.53	29.99	179.96	ECK-A3F681KBP	P4506A-ND	6.30	46.30	265.95	ECK-D3F681KBP
	820pF	±10%	Y5P	11.0	6.0	7.5	.65	P9586-ND	4.53	29.99	179.96	ECK-A3F821KBP	—	—	—	—	—
	1000pF	±10%	Y5P	12.5	6.0	7.5	.65	P9587-ND	5.34	35.37	212.22	ECK-A3F102KBP	—	—	—	—	—
	1200pF	±10%	Y5P	14.5	6.0	10.0	.65	P9588-ND	5.80	38.41	230.45	ECK-A3F122KBP	P4509A-ND	9.69	72.68	429.59	ECK-D3F122KBP
	1500pF	±10%	Y5P	14.5	6.0	10.0	.65	P9589-ND	5.80	38.41	230.45	ECK-A3F152KBP	—	—	—	—	—
	1800pF	±10%	Y5P	14.5	6.0	10.0	.65	P9590-ND	5.80	38.41	230.45	ECK-A3F182KBP	—	—	—	—	—
	2200pF	±10%	Y5P	17.0	6.0	10.0	.65	P9591-ND	7.03	46.51	279.05	ECK-A3F222KBP	—	—	—	—	—
	2700pF	±10%	Y5P	18.5	6.0	10.0	.65	P9592-ND	7.03	46.51	279.05	ECK-A3F272KBP	—	—	—	—	—

Panasonic® Ceramic Disc Capacitors

Type RS, Class 1 Safety

Ceramic disc capacitors, Type RS, are recognized by the following safety regulations: • UL1414 (125VAC) and CSA (125VAC)

Specifications:

Operating Temperature Range: -25°C ~ 85°C			
Rated Voltage	Applicable Standards		Rated Voltage
	UL, CSA		125VAC
Dielectric Withstanding Volt.	T.C.		Voltage
	V		2500VAC for 1 minute
Capacitance	Within the tolerance, when measured at 1 kHz, 5 Vrms maximum and 20°C		
Dissipation Factor	B, E: 0.025 maximum V: 0.05 maximum when measured at 1 kHz, 5 Vrms maximum and 20°C		
Insulation Resist.	10000MΩ minimum at 500VDC, 1 minute		
Temperature Characteristics	T.C.	Cap. Change	Temp. Range
	V	+30/-80% maximum	0°C ~ 70°C
The Reference Temperature: 20°C			

Class 2, High Dielectric Constant

Features: • Large capacitance in small size • Minimum coating resin on leads

Applications: • Coupling and By-pass, where low losses and high stability of capacitance are not so important

Specifications: • Operating Temperature Range: -25°C ~ 85°C • Rated Voltage: 25VDC • Dielectric Withstanding Voltage: 250% of the rated voltage for 1 to 5 seconds (no damage occurs when the test voltage is applied between terminals) • Capacitance: measured at 1kHz ±10%, 1 Vrms and 20°C within the specified tolerance - standard capacitance tolerance [Z4V]: +80/-20% • Dissipation Factor: [Z4V]: D.F. ≤0.05 • Insulation Resistance: C≤0.02 µF: ≥10000MΩ, C>0.02 µF: CR products ≥ 200MΩ (measured at the rated voltage and 1 minute electrification) • Temperature Characteristics:

$$\text{Cap. Change} = \frac{\triangle C}{C20} \times 100\%$$

Where C20: Capacitance value in pF at the specified reference temperature of 20°C.

△C: Capacitance drifts in pF from the capacitance value at 20°C over the specified temperature range.

Temperature Characteristics	Maximum Capacitance Change	Temperature Range
Z4V	+30/-80%	0°C ~ 70°C

Class 1, Temperature Compensating

Features: • Wide product range for temperature compensation • Liner temperature coefficient of capacitance • High stability of capacitance and close tolerance • Low loss at wide range of frequency

Applications: • Temperature compensation of resonant circuit and filters • Where low losses and high stability of capacitance tolerance and high insulation resistance are required

Specifications: • Operating Temperature Range: -25°C ~ 85°C • Rated Voltage: 50VDC, 500VDC • Dielectric Withstanding Voltage: 300% of the rated voltage for 1 to 5 seconds (no damage occurs when the test voltage is applied between terminals) • Capacitance: measured at 1MHz ±20%, 5 Vrms. max. and 20°C within the specified tolerance - standard capacitance tolerance: ±0.25 pF (1 to 5 pF), ±0.5 pF (1 to 10 pF), ±1 pF (10pF), ±5% (Over 10 pF NP0), ±10% (Over 10 pF GP) • Q Factor: Cap. <30 pF: Q≥400+20XC (c: Rated capacitance in pF), Cap≥30 pF: Q≥1000 • Insulation Resistance: ≥10000 MΩ (measured at the rated voltage and 1 minute electrification) • Temperature Coefficient of Capacitance: Temperature Range: -25°C ~ 85°C, Reference Temperature:

$$20°\text{C, T.C.} = \frac{\triangle C}{C_{20} \times \triangle T}$$

Where: C20: Capacitance value in pF at the specified reference temperature of 20°C. △C: Capacitance drifts in pF from the capacitance value at 20°C. △T: The specified temperature range to be measured in °C.

Capacitance (pF)	Rated temperature Coefficient (ppm/°C)	
	NP0	GP
1 to 2	±250	+350 to -1000
3	±120	
4 and above	±60	

Voltage	Capacitance	Tolerance	Temp Characteristics	Dim. (mm)			Digi-Key Part No.	Pricing			Panasonic Part No.
				Diameter	Thickness	Lead Space		10	100	1,000	
RS Safety Type Class 1											
125	4700pF	+80, -20%	V	11.5	7.0	7.5	P4472A-ND	3.57	25.48	142.69	ECK-DRS472ZV
Class 2 High Dielectric Constant											
25	. 047µF	+80%-20%	Z4V	8.5	3.5	6.35	P4307-ND	1.34	9.03	46.59	ECK-F1E473ZVE

Voltage	Capacitance	Tolerance	Temp Characteristics	Dim. (mm)			Digi-Key Part No.	Pricing			Panasonic Part No.
				Diameter	Thickness	Lead Space		10	100	1,000	
Class 1 Temperature Compensating											
50	1000pF	±5%	GP	10.5	3.5	5.0	P4036A-ND	1.83	12.94	70.56	ECC-F1H102J
500	47pF	±5%	NP0	8.5	3.5	5.0	P4408A-ND	3.00	21.18	115.50	ECC-D2H470JC5
	82pF	±5%	NP0	13.0	3.5	9.5	P4411-ND	2.98	21.28	119.17	ECC-D2H820JCE

Multilayer Ceramic Chip Capacitor Arrays

ECJ-T and ECJ-R Series

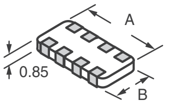

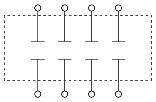

FEATURES: • Four capacitors built in type in the miniature size of 0805 and 1206 • Improvement of placement time on mounting machines • Low self-inductance and excellent frequency characteristics **RECOMMENDED APPLICATIONS:** • Input/Output circuit computer's mother board - serial, video and parallel ports

Size Code	Type	WV DC	Capacitance	Dimensions (mm)		Tolerance	Digi-Key Part No.	Cut Tape Pricing					Digi-Key Part No.	Tape and Reel Pricing 4,000	Panasonic Part No.
				A	B			1	10	100	500	1,000			
0805	NP0	50	10pF	2.0	1.25	±1pF	P11999CT-ND◆	.37	2.49	17.57	60.71	95.85	P11999TR-ND◆	83.00/M	ECJ-TVC1H100F
			22pF			±10%	P12001CT-ND◆	.37	2.49	17.57	60.71	95.85	P12001TR-ND◆	83.00/M	ECJ-TVC1H220K
			47pF			±10%	P12003CT-ND◆	.37	2.49	17.57	60.71	95.85	P12003TR-ND◆	83.00/M	ECJ-TVC1H470K
			100pF			±10%	P12000CT-ND◆	.37	2.49	17.57	60.71	95.85	P12000TR-ND◆	83.00/M	ECJ-TVC1H101K
			220pF			±10%	P12002CT-ND	.37	2.49	17.57	60.71	95.85	P12002TR-ND	83.00/M	ECJ-TVC1H221K
	X7R	50	470pF	2.0	1.25	±20%	P11998CT-ND	.37	2.49	17.57	60.71	95.85	P11998TR-ND	83.00/M	ECJ-TVB1H471M
			1000pF				P11996CT-ND◆	.37	2.49	17.57	60.71	95.85	P11996TR-ND◆	83.00/M	ECJ-TVB1H102M
			2200pF				P11997CT-ND◆	.37	2.49	17.57	60.71	95.85	P11997TR-ND◆	83.00/M	ECJ-TVB1H222M
		25	4700pF	2.0	1.25	±20%	P11995CT-ND	.37	2.49	17.57	60.71	95.85	P11995TR-ND	83.00/M	ECJ-TVB1E472M
		16	.01µF	2.0	1.25	±20%	P11994CT-ND◆	.32	2.35	16.80	60.48	94.08	P11994TR-ND◆	87.00/M	ECJ-TVB1C103M
	X5R	10	.1µF	2.0	1.25	±20%	P12977CT-ND◆	.28	2.45	20.97	87.38	150.29	P12977TR-ND◆	98.00/M	ECJ-TVB1A104M
		6.3	1µF	2.0	1.25	±20%	P11985CT-ND◆	.43	3.16	23.24	84.07	133.52	P11985TR-ND◆	129.00/M	ECJ-TVB0J105M
	Y5V	16	.1µF	2.0	1.25	+80%/-20%	P12004CT-ND◆	.32	2.35	16.80	60.48	94.08	P12004TR-ND◆	87.00/M	ECJ-TVF1C104Z
1206	NP0	50	10pF	3.2	1.6	±1pF	P10580CT-ND◆	.28	2.44	20.94	87.25	150.07	P10580TR-ND◆	98.00/M	ECJ-RVC1H100F
			12pF			±10%	P10581CT-ND	.40	3.54	30.30	126.25	217.15	P10581TR-ND	141.00/M	ECJ-RVC1H120K
			15pF			±10%	P10582CT-ND	.28	2.44	20.94	87.25	150.07	P10582TR-ND	98.00/M	ECJ-RVC1H150K
			18pF			±10%	P10583CT-ND	.40	3.54	30.30	126.25	217.15	P10583TR-ND	141.00/M	ECJ-RVC1H180K
			22pF			±10%	P10584CT-ND◆	.28	2.44	20.94	87.25	150.07	P10584TR-ND◆	98.00/M	ECJ-RVC1H220K
		50	27pF	3.2	1.6	±10%	P10585CT-ND◆	.49	4.27	36.60	152.50	262.30	P10585TR-ND◆	171.00/M	ECJ-RVC1H270K
			33pF				P10586CT-ND◆	.28	2.44	20.94	87.25	150.07	P10586TR-ND◆	98.00/M	ECJ-RVC1H330K
			39pF				P10587CT-ND	.49	4.27	36.60	152.50	262.30	P10587TR-ND	171.00/M	ECJ-RVC1H390K
			47pF				P10588CT-ND◆	.31	2.71	23.25	96.88	166.63	P10588TR-ND◆	109.00/M	ECJ-RVC1H470K
			56pF				P10589CT-ND	.50	4.38	37.50	156.25	268.75	P10589TR-ND	175.00/M	ECJ-RVC1H560K
		50	68pF	3.2	1.6	±10%	P10590CT-ND	.38	3.29	28.17	117.38	201.89	P10590TR-ND	131.00/M	ECJ-RVC1H680K
			82pF				P10591CT-ND	.50	4.38	37.50	156.25	268.75	P10591TR-ND	175.00/M	ECJ-RVC1H820K
			100pF				P10592CT-ND◆	.38	3.29	28.17	117.38	201.89	P10592TR-ND◆	131.00/M	ECJ-RVC1H101K
			120pF				P10593CT-ND	.51	4.48	38.40	160.00	275.20	P10593TR-ND	179.00/M	ECJ-RVC1H121K
			150pF				P10594CT-ND	.38	3.29	28.17	117.38	201.89	P10594TR-ND	131.00/M	ECJ-RVC1H151K
		50	180pF	3.2	1.6	±10%	P10595CT-ND	.52	4.55	39.00	162.50	279.50	P10595TR-ND	182.00/M	ECJ-RVC1H181K
			220pF				P10596CT-ND◆	.38	3.29	28.17	117.38	201.89	P10596TR-ND◆	131.00/M	ECJ-RVC1H221K
			270pF				P10597CT-ND	.52	4.55	39.00	162.50	279.50	P10597TR-ND	182.00/M	ECJ-RVC1H271K
			330pF				P10598CT-ND	.38	3.29	28.17	117.38	201.89	P10598TR-ND	131.00/M	ECJ-RVC1H331K
			390pF				P10599CT-ND◆	.52	4.55	39.00	162.50	279.50	P10599TR-ND◆	182.00/M	ECJ-RVC1H391K
			470pF				P10600CT-ND◆	.38	3.29	28.17	117.38	201.89	P10600TR-ND◆	131.00/M	ECJ-RVC1H471K
	X7R	50	330pF	3.2	1.6	±20%	P10601CT-ND◆	.40	3.50	30.00	125.00	215.00	P10601TR-ND◆	140.00/M	ECJ-RVB1H331M
			470pF				P10602CT-ND	.21	1.87	16.02	66.75	114.81	P10602TR-ND	75.00/M	ECJ-RVB1H471M
			680pF				P10603CT-ND◆	.21	1.87	16.02	66.75	114.81	P10603TR-ND◆	75.00/M	ECJ-RVB1H681M
			1000pF				P10604CT-ND◆	.21	1.87	16.02	66.75	114.81	P10604TR-ND◆	75.00/M	ECJ-RVB1H102M
			1500pF				P10605CT-ND	.21	1.87	16.02	66.75	114.81	P10605TR-ND	75.00/M	ECJ-RVB1H152M
		50	2200pF	3.2	1.6	±20%	P10606CT-ND◆	.21	1.87	16.02	66.75	114.81	P10606TR-ND◆	75.00/M	ECJ-RVB1H222M
			3300pF				P10607CT-ND	.23	2.01	17.25	71.88	123.63	P10607TR-ND	81.00/M	ECJ-RVB1H332M
			4700pF				P10608CT-ND◆	.23	2.01	17.25	71.88	123.63	P10608TR-ND◆	81.00/M	ECJ-RVB1H472M
			6800pF				P10609CT-ND	.23	2.01	17.25	71.88	123.63	P10609TR-ND	81.00/M	ECJ-RVB1H682M
			10000pF				P10610CT-ND◆	.23	2.01	17.25	71.88	123.63	P10610TR-ND◆	81.00/M	ECJ-RVB1H103M
		16	.1µF	3.2	1.6	±20%	P11148CT-ND◆	.34	2.97	25.47	106.13	182.54	P11148TR-ND◆	119.00/M	ECJ-RVB1C104M
	X5R	6.3	1µF	3.2	1.6	±20%	P12976CT-ND◆	.09	.82	6.99	29.13	50.10	P12976TR-ND◆	33.00/M	ECJ-RVB0J105M
	Y5V	25	.1µF	3.2	1.6	+80%/-20%	P10611CT-ND◆	.18	1.54	13.23	55.13	94.82	P10611TR-ND◆	62.00/M	ECJ-RVF1E104Z
		10	1µF	3.2	1.6	+80%/-20%	P11993CT-ND◆	.52	3.84	27.40	98.64	153.44	P11993TR-ND◆	142.00/M	ECJ-RVF1A105Z

◆ ***RoHS Compliant***

Panasonic® Multilayer Ceramic Chip Capacitors 2-Fold Array Type

Digi-Reel® RoHS COMPLIANT

Features: • 2 Capacitors built in the miniature size of 0504 **Specifications:** • Operating Temperature Range for NPO: -55°C ~ 85°C • Operating Temperature Range for X5R: -55°C ~ 125°C **Recommended Applications:** • Stabilizing of power supply voltage and Noise filtering as Decoupling capacitors for Digital IC power circuit • Bypass capacitors for CPU digital signal

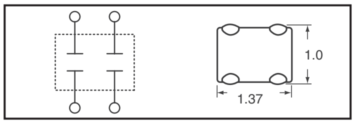

Size Code	Type	WV DC	Cap.	Tol.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	1,000	Digi-Key Part No.	T & R Pricing 4,000	Panasonic Part No.
0504	NPO	50	10pF	±1pF	P12981CT-ND	.26	2.30	19.68	82.00	141.04	P12981TR-ND	92.00/M	ECJ-UVC1H100F
			22pF	±10pF	P12983CT-ND	.26	2.30	19.68	82.00	141.04	P12983TR-ND	92.00/M	ECJ-UVC1H220K
			47pF	±10pF	P12984CT-ND	.26	2.30	19.68	82.00	141.04	P12984TR-ND	92.00/M	ECJ-UVC1H470K
			100pF	±10%	P12982CT-ND	.26	2.30	19.68	82.00	141.04	P12982TR-ND	92.00/M	ECJ-UVC1H101K
	X5R	16	1µF	±20%	P12979CT-ND	.64	5.61	48.09	200.38	344.65	P12979TR-ND	224.00/M	ECJ-UVBPC105M
			1µF	±20%	P11983CT-ND	.73	5.44	39.95	144.50	229.50	P11983TR-ND	221.00/M	ECJ-UVB1C105M
		10	.1µF	±20%	P11982CT-ND	.46	3.39	24.23	87.21	135.66	P11982TR-ND	126.00/M	ECJ-UVB1A104M
			1µF	±20%	P11984CT-ND	.62	4.62	33.96	122.83	195.08	P11984TR-ND	188.00/M	ECJ-UVB1A105M
			1µF	±20%	P12978CT-ND	.55	4.84	41.52	173.00	297.56	P12978TR-ND	194.00/M	ECJ-UVBPA105M
		6.3	1µF	±20%	P11981CT-ND	.52	3.88	28.48	103.02	163.62	P11981TR-ND	158.00/M	ECJ-UVB0J105M
			1µF	±20%	P12980CT-ND	.45	3.98	34.11	142.13	244.46	P12980TR-ND	159.00/M	ECJ-UVBPJ105M
			2.2µF	±20%	P11986CT-ND	.36	2.71	19.93	72.08	114.48	P11986TR-ND	110.00/M	ECJ-UVBPJ225M

Ceramic Disc Capacitors KGE Type High Voltage - Rated 1 to 6 kVDC, Temperature Characteristics SL/GP

Features: • Wide operating temperature range: -25°C ~ 105°C • Low loss at wide frequency range and stable against high voltage pulses • Temperature stable (Character SL/GP) • Flame-retardant insulating coating applied

Recommended Applications: • Ballast circuit of LCD backlighting inverter • Snubber circuit of switching power supply • Horizontal resonance circuit of TV and CRT display • Inverter type lighting apparatus • High voltage pulse and DC circuits

Specifications: • **Operating Temperature Range:** -25°C ~ 105°C • **Rated Voltage:** 1kVDC, 2kVDC, 6kVDC • **Dielectric Withstanding Voltage:** 200% of the rated voltage for 1 to 5 seconds • **Capacitance:** Within tolerance, when measured at 1MHz ±20%, 1 to 5 Vrms, and 20°C • **Q Factor:** Capacitance <30pF: Q≥400+20C (C: Rated Capacitance in pF). Capacitance ≥30pF: Q≥1000 at 1 MHz±20%, 1 to 5 Vrms, and 20°C • **Insulation Resistance:** 10,000 MΩ minimum at 500 VDC and 1 minute electrification • **Temperature Characteristics:** Temperature Coefficient: +350 ~ -1000 ppm/°C over the temperature range of 20°C ~ 85°C

							Kinked Lead - *RoHS Compliant*					Straight Lead (Not recommended for new design)				
		Temperature		Dimensions (mm)			Digi-Key	Pricing			Panasonic	Digi-Key	Pricing			Panasonic
Voltage	Capacitance	Tolerance	Characteristics	Diameter	Thickness	Lead Space	Part No.	10	100	1,000	Part No.	Part No.	10	100	1000	Part No.
1K	12pF	±5%	GP	6.0	5.0	5.0	P9593-ND	3.16	21.20	107.94	ECC-A3A120JGE	—	—	—	—	—
	15pF						P9594-ND	3.16	21.20	107.94	ECC-A3A150JGE	—	—	—	—	—
	18pF						P9595-ND	3.16	21.20	107.94	ECC-A3A180JGE	—	—	—	—	—
	22pF						P9596-ND	3.16	21.20	107.94	ECC-A3A220JGE	—	—	—	—	—
	27pF						P9597-ND	3.16	21.20	107.94	ECC-A3A270JGE	—	—	—	—	—
	33pF	±5%	GP	6.0	5.0	5.0	P9598-ND	3.16	21.20	107.94	ECC-A3A330JGE	—	—	—	—	—
	39pF						P9599-ND	3.16	21.20	107.94	ECC-A3A390JGE	P10799-ND	2.96	20.90	114.00	ECC-D3A390JGE
	47pF						P9614-ND	3.16	21.20	107.94	ECC-A3A470JGE	—	—	—	—	—
	56pF						P9615-ND	3.16	21.20	107.94	ECC-A3A560JGE	—	—	—	—	—
	68pF						P9616-ND	3.16	21.20	107.94	ECC-A3A680JGE	—	—	—	—	—
	82pF	±5%	GP	6.0	5.0	5.0	P9617-ND	3.16	21.20	107.94	ECC-A3A820JGE	—	—	—	—	—
	100pF			7.0			P9618-ND	3.35	22.50	114.52	ECC-A3A101JGE	—	—	—	—	—
	120pF			7.0			P9619-ND	3.35	22.50	114.52	ECC-A3A121JGE	P10805-ND	3.20	22.55	123.00	ECC-D3A121JGE
	150pF			8.0			P9620-ND	3.35	22.50	114.52	ECC-A3A151JGE	—	—	—	—	—
	180pF			8.0			P9621-ND	3.35	22.50	114.52	ECC-A3A181JGE	P10807-ND	3.08	22.00	123.20	ECC-D3A181JGE
	220pF	±5%	GP	9.0	5.0	5.0	P9622-ND	3.55	23.82	121.24	ECC-A3A221JGE	—	—	—	—	—
	270pF			9.0		5.0	P9623-ND	3.55	23.82	121.24	ECC-A3A271JGE	—	—	—	—	—
	330pF			11.0		5.0	P9624-ND	4.26	28.55	145.32	ECC-A3A331JGE	—	—	—	—	—
	390pF			11.0		5.0	P9625-ND	4.26	28.55	145.32	ECC-A3A391JGE	—	—	—	—	—
	470pF			13.0		7.5	P9626-ND	4.97	33.33	169.68	ECC-A3A471JGE	—	—	—	—	—
2K	12pF	±5%	GP	7.0	5.5	7.5	P9627-ND	3.87	25.93	132.02	ECC-A3D120JGE	P10813-ND	3.15	22.50	126.00	ECC-D3D120JGE
	15pF						P9628-ND	3.87	25.93	132.02	ECC-A3D150JGE	P10814-ND	3.15	22.50	126.00	ECC-D3D150JGE
	18pF						P9629-ND	3.87	25.93	132.02	ECC-A3D180JGE	P10815-ND	3.15	22.50	126.00	ECC-D3D180JGE
	22pF						P9630-ND	3.87	25.93	132.02	ECC-A3D220JGE	—	—	—	—	—
	27pF						P9631-ND	3.87	25.93	132.02	ECC-A3D270JGE	—	—	—	—	—
	33pF	±5%	GP	7.0	5.5	7.5	P9632-ND	3.87	25.93	132.02	ECC-A3D330JGE	—	—	—	—	—
	39pF						P9633-ND	3.87	25.93	132.02	ECC-A3D390JGE	—	—	—	—	—
	47pF						P9634-ND	3.87	25.93	132.02	ECC-A3D470JGE	—	—	—	—	—
	56pF						P9635-ND	3.87	25.93	132.02	ECC-A3D560JGE	P10821-ND	3.36	24.00	134.40	ECC-D3D560JGE
	68pF						P9636-ND	3.87	25.93	132.02	ECC-A3D680JGE	—	—	—	—	—
	82pF						P9637-ND	3.87	25.93	132.02	ECC-A3D820JGE	P10823-ND	3.50	25.00	140.00	ECC-D3D820JGE
	100pF	±5%	GP	8.0	5.5	7.5	P9638-ND	4.00	26.81	136.50	ECC-A3D101JGE	—	—	—	—	—
	120pF			8.0			P9639-ND	4.00	26.81	136.50	ECC-A3D121JGE	P10825-ND	3.64	26.00	145.60	ECC-D3D121JGE
	150pF			9.0			P9640-ND	4.64	31.13	158.48	ECC-A3D151JGE	—	—	—	—	—
	180pF			10.0			P9641-ND	4.71	31.14	186.84	ECC-A3D181JGE	P10827-ND	3.85	27.50	154.00	ECC-D3D181JGE
	220pF			10.0			P9642-ND	4.71	31.14	186.84	ECC-A3D221JGE	—	—	—	—	—
3K	12pF	±5%	GP	7.0	6.0	7.5	P9643-ND	3.94	26.40	134.40	ECC-A3F120JGE	—	—	—	—	—
	15pF						P9644-ND	3.94	26.40	134.40	ECC-A3F150JGE	P10830-ND	4.06	29.00	162.40	ECC-D3F150JGE
	18pF						P9645-ND	3.94	26.40	134.40	ECC-A3F180JGE	—	—	—	—	—
	22pF						P9646-ND	3.94	26.40	134.40	ECC-A3F220JGE	—	—	—	—	—
	27pF						P9647-ND	3.94	26.40	134.40	ECC-A3F270JGE	—	—	—	—	—
	33pF	±5%	GP	7.0	6.0	7.5	P9648-ND	3.94	26.40	134.40	ECC-A3F330JGE	—	—	—	—	—
	39pF			7.0			P9649-ND	3.94	26.40	134.40	ECC-A3F390JGE	—	—	—	—	—
	47pF			7.0			P9650-ND	3.94	26.40	134.40	ECC-A3F470JGE	P10836-ND	4.20	30.00	168.00	ECC-D3F470JGE
	56pF			8.0			P9651-ND	3.94	26.40	134.40	ECC-A3F560JGE	P10837-ND	4.34	31.00	173.60	ECC-D3F560JGE
	68pF			8.0			P9652-ND	3.94	26.40	134.40	ECC-A3F680JGE	—	—	—	—	—
	82pF	±5%	GP	9.0	6.0	7.5	P9653-ND	4.90	32.86	167.30	ECC-A3F820JGE	—	—	—	—	—
	100pF			10.0			P9654-ND	4.90	32.86	167.30	ECC-A3F101JGE	—	—	—	—	—
	120pF			10.0			P9655-ND	4.90	32.86	167.30	ECC-A3F121JGE	—	—	—	—	—
	150pF			11.0			P9656-ND	4.92	32.56	195.35	ECC-A3F151JGE	—	—	—	—	—
6K	10pF	±0.5pF	GP	7.0	6.0	7.5	P12181-ND	5.40	35.75	214.52	ECC-A3J100DGE	—	—	—	—	—
	12pF	±5	GP	7.0	6.0	7.5	P12182-ND	5.40	35.75	214.52	ECC-A3J120JGE	—	—	—	—	—
	15pF			7.0			P12183-ND	5.40	35.75	214.52	ECC-A3J150JGE	—	—	—	—	—
	18pF			7.0			P12184-ND	5.40	35.75	214.52	ECC-A3J180JGE	—	—	—	—	—
	22pF			7.0			P12185-ND	5.40	35.75	214.52	ECC-A3J220JGE	—	—	—	—	—
	27pF			8.0			P12186-ND	6.36	42.12	252.72	ECC-A3J270JGE	—	—	—	—	—
	33pF	±5	GP	8.0	6.0	7.5	P12187-ND	6.36	42.12	252.72	ECC-A3J330JGE	—	—	—	—	—
	39pF			8.5			P12188-ND	6.36	42.12	252.72	ECC-A3J390JGE	—	—	—	—	—
	47pF			9.0			P12189-ND	6.74	44.57	267.44	ECC-A3J470JGE	—	—	—	—	—
	100pF			12.5			P12190-ND	10.33	77.49	458.05	ECC-A3J101JGE	—	—	—	—	—
	150pF			15.0			P12191-ND	10.85	81.36	480.93	ECC-A3J151JGE	—	—	—	—	—

HD Series High Voltage Ceramic Disc Capacitors Y5P Type

Features: • Improved "Voltage vs. Temperature Rise" **Characteristics:** • High reliability using zinc-copper electrode **Application:** • Horizontal resonance circuit of TV and CRT display **Specifications:** • Operating Temperature Range: -25°C ~ 125°C • Dielectric Withstanding Voltage: 200% of rated voltage for 1 to 5 seconds • Capacitance: Measured at 1kHz ±20%, 1 to 5 Vrms and 20°C within the specified tolerance (±10%) • Tangent of loss angle: Measured at 1kHz ±20%, 1 to 5 Vrms and 20°C at 1.5% or less • Insulation Resistance: 500 ± 50VDC and 1 minute electrification at 10,000MΩ or more • Temperature Characteristics: Y5P ± 10% (temperature range: -20°C ~ 85°C)

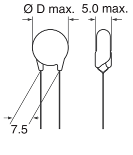

Voltage (kdc)	Capacitance (pF)	Tolerance (%)	Temperature Characteristics	Dimension Diameter (mm)	Digi-Key Part No.	Pricing 10	100	1,000	Panasonic Part No.
2	100	±10	Y5P	7.0	P12175-ND◆	3.32	22.25	113.26	ECK-AHD101KB
	150	±10	Y5P	7.0	P12176-ND	3.32	22.25	113.26	ECK-AHD151KB
	220	±10	Y5P	7.0	P12177-ND◆	3.32	22.25	113.26	ECK-AHD221KB
	330	±10	Y5P	7.0	P12178-ND◆	3.32	22.25	113.26	ECK-AHD331KB
	470	±10	Y5P	9.0	P12179-ND◆	3.32	22.25	113.26	ECK-AHD471KB
	680	±10	Y5P	10.0	P12180-ND◆	3.32	22.25	113.26	ECK-AHD681KB

◆ ***RoHS Compliant***

Panasonic

High Voltage Ceramic Capacitors (SMD)

FEATURES:

• Resin molded type for reflow solderings • High reliability through disc capacitor element molded construction • Excellent "Voltage vs. Temperature Rise" through low loss ceramic dielectric • Temperature stable (SL/GP) and (B/Y5P)

SPECIFICATIONS:

• Operating Temperature Range: -25°C ~ 105°C • Insulation Resistance: 10000MΩ minimum at 500VDC and 1 minute electrification • Q or Dissipation Factor (tan δ): *SL/GP Temperature Characteristics:* C < 30pF: Q ≥ 400+20 C (C:cap.pF), C ≥ 30pF: Q ≥ 1000 at 1MHz, 1-5Vrms and 20°C *B/Y5P Temperature Characteristics:* D.F. (tan δ)≤0.025 at 1KHz, 1-5Vrms and 20°C • Temperature Characteristics: *SL/GP* Temperature Coefficient: 350 ~ -1000ppm/°C *B/Y5P* Maximum Capacitance Change: ΔC/C≤±10% (Temperature Range: -25°C ~ 85°C) • Capacitance: *SL/GP Temperature Characteristics:* 1MHz, 1-5Vrms and 20°C *B/Y5P Temperature Characteristics:* 1KHz, 1-5Vrms and 20°C • Dielectric Withstanding Voltage: *SL/GP Temperature Characteristics, (*voltage 4kVDC): 150% of the rated voltage for 1-5 seconds *SL/GP Temperature Characteristics,* (voltage 2-3KVDC): 200% of the rated voltage for 1-5 seconds. *B/Y5P Temperature Characteristics:* 200% of the rated voltage for 1-5 seconds

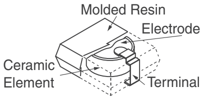

RECOMMENDED APPLICATIONS:

- Output circuit of LCD backlighting inverter
- Snubber circuit of switching power supply
- High voltage circuit

Fig. 1

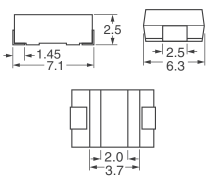

Fig. 2

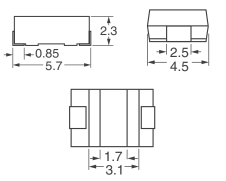

Voltage	Capacitance	Capac. Tol. %	Temp. Char.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
Fig. 1											
1kVDC	390pF	±10	B/Y5P	PCC2099CT-ND	1.27	.90	.68	PCC2099TR-ND	2,000	389.00/M	ECK-T3A391KB
	470pF	±10	B/Y5P	PCC2100CT-ND◆	1.27	.90	.68	PCC2100TR-ND◆	2,000	389.00/M	ECK-T3A471KB
2kVDC	68pF	±5	SL/GP	PCC2091CT-ND	1.27	.90	.68	PCC2091TR-ND	2,000	383.00/M	ECC-T3D680JG
	100pF	±10	B/Y5P	PCC2092CT-ND◆	1.27	.90	.68	PCC2092TR-ND◆	2,000	389.00/M	ECK-T3D101KB
	120pF	±10	B/Y5P	PCC2093CT-ND	1.27	.90	.68	PCC2093TR-ND	2,000	389.00/M	ECK-T3D121KB
	150pF	±10	B/Y5P	PCC2094CT-ND◆	1.27	.90	.68	PCC2094TR-ND◆	2,000	389.00/M	ECK-T3D151KB
	180pF	±10	B/Y5P	PCC2095CT-ND	1.27	.90	.68	PCC2095TR-ND◆	2,000	389.00/M	ECK-T3D181KB
	220pF	±10	B/Y5P	PCC2096CT-ND◆	1.27	.90	.68	PCC2096TR-ND◆	2,000	389.00/M	ECK-T3D221KB
	270pF	±10	B/Y5P	PCC2097CT-ND◆	1.27	.90	.68	PCC2097TR-ND◆	2,000	389.00/M	ECK-T3D271KB
	330pF	±10	B/Y5P	PCC2098CT-ND◆	1.27	.90	.68	PCC2098TR-ND◆	2,000	389.00/M	ECK-T3D331KB
3kVDC	10pF	±5	SL/GP	PCC100JCT-ND◆	1.40	.99	.75	PCC100JTR-ND◆	2,000	428.00/M	ECC-T3F100JG
	12pF	±5	SL/GP	PCC120JCT-ND	1.40	.99	.75	PCC120JTR-ND◆	2,000	428.00/M	ECC-T3F120JG
	15pF	±5	SL/GP	PCC150JCT-ND	1.40	.99	.75	PCC150JTR-ND	2,000	428.00/M	ECC-T3F150JG
	18pF	±5	SL/GP	PCC180JCT-ND	1.40	.99	.75	PCC180JTR-ND	2,000	428.00/M	ECC-T3F180JG
	22pF	±5	SL/GP	PCC220JCT-ND	1.40	.99	.75	PCC220JTR-ND	2,000	428.00/M	ECC-T3F220JG
	27pF	±5	SL/GP	PCC270JCT-ND◆	1.40	.99	.75	PCC270JTR-ND◆	2,000	428.00/M	ECC-T3F270JG
	33pF	±5	SL/GP	PCC330JCT-ND	1.40	.99	.75	PCC330JTR-ND	2,000	428.00/M	ECC-T3F330JG
	39pF	±5	SL/GP	PCC390JCT-ND	1.40	.99	.75	PCC390JTR-ND	2,000	428.00/M	ECC-T3F390JG
	47pF	±5	SL/GP	PCC470JCT-ND◆	1.40	.99	.75	PCC470JTR-ND◆	2,000	428.00/M	ECC-T3F470JG
	56pF	±5	SL/GP	PCC560JCT-ND	1.40	.99	.75	PCC560JTR-ND	2,000	428.00/M	ECC-T3F560JG
4kVDC	10pF	±5	SL/GP	PCC2082CT-ND	1.44	1.08	.81	PCC2082TR-ND	2,000	467.00/M	ECC-T3G100JG
	12pF	±5	SL/GP	PCC2083CT-ND	1.44	1.08	.81	PCC2083TR-ND	2,000	467.00/M	ECC-T3G120JG
	15pF	±5	SL/GP	PCC2084CT-ND◆	1.44	1.08	.81	PCC2084TR-ND◆	2,000	467.00/M	ECC-T3G150JG
	18pF	±5	SL/GP	PCC2085CT-ND◆	1.44	1.08	.81	PCC2085TR-ND◆	2,000	467.00/M	ECC-T3G180JG
	22pF	±5	SL/GP	PCC2086CT-ND◆	1.44	1.08	.81	PCC2086TR-ND◆	2,000	467.00/M	ECC-T3G220JG
	27pF	±5	SL/GP	PCC2087CT-ND	1.44	1.08	.81	PCC2087TR-ND	2,000	467.00/M	ECC-T3G270JG
	33pF	±5	SL/GP	PCC2088CT-ND	1.44	1.08	.81	PCC2088TR-ND	2,000	467.00/M	ECC-T3G330JG
	39pF	±5	SL/GP	PCC2089CT-ND	1.44	1.08	.81	PCC2089TR-ND	2,000	467.00/M	ECC-T3G390JG
	47pF	±5	SL/GP	PCC2090CT-ND	1.44	1.08	.81	PCC2090TR-ND	2,000	467.00/M	ECC-T3G470JG
Fig. 2 — RoHS Compliant											
3kVDC	10pF	±0.5	SL/GP	PCC2368CT-ND	1.40	.99	.75	PCC2368TR-ND	3,000	428.00/M	ECC-T3F100DG2
	12pF	±5	SL/GP	PCC2369CT-ND	1.40	.99	.75	PCC2369TR-ND	3,000	428.00/M	ECC-T3F120JG2
	15pF	±5	SL/GP	PCC2370CT-ND	1.40	.99	.75	PCC2370TR-ND	3,000	428.00/M	ECC-T3F150JG2
	18pF	±5	SL/GP	PCC2371CT-ND	1.40	.99	.75	PCC2371TR-ND	3,000	428.00/M	ECC-T3F180JG2
	22pF	±5	SL/GP	PCC2372CT-ND	1.40	.99	.75	PCC2372TR-ND	3,000	428.00/M	ECC-T3F220JG2
	27pF	±5	SL/GP	PCC2373CT-ND	1.40	.99	.75	PCC2373TR-ND	3,000	428.00/M	ECC-T3F270JG2
	33pF	±5	SL/GP	PCC2374CT-ND	1.40	.99	.75	PCC2374TR-ND	3,000	428.00/M	ECC-T3F330JG2
4kVDC	10pF	±0.5	SL/GP	PCC2375CT-ND	1.40	.99	.75	PCC2375TR-ND	3,000	428.00/M	ECC-T3G100DG2
	12pF	±5	SL/GP	PCC2376CT-ND	1.40	.99	.75	PCC2376TR-ND	3,000	428.00/M	ECC-T3G120JG2
	15pF	±5	SL/GP	PCC2377CT-ND	1.40	.99	.75	PCC2377TR-ND	3,000	428.00/M	ECC-T3G150JG2
	18pF	±5	SL/GP	PCC2378CT-ND	1.40	.99	.75	PCC2378TR-ND	3,000	428.00/M	ECC-T3G180JG2
	22pF	±5	SL/GP	PCC2379CT-ND	1.40	.99	.75	PCC2379TR-ND	3,000	428.00/M	ECC-T3G220JG2
	27pF	±5	SL/GP	PCC2380CT-ND	1.40	.99	.75	PCC2380TR-ND	3,000	428.00/M	ECC-T3G270JG2

◆ ***RoHS Compliant***

Ceramic Capacitors for Safety Regulations - Type BC (SMD)

FEATURES: • Resin molded type for reflow soldering surface mountings • High reliability through disc capacitor element molded construction • Related by IEC 384-14 sub-class Y2/X1 and Japan Domestic Safety Regulations • One standard size cover wide capacitance range for 1000pF to 4700pF

APPLICATIONS: • On-board type power module • DC-DC Converter • FAX Modulator-Demodulator

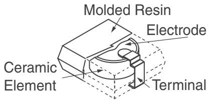

Fig. 1

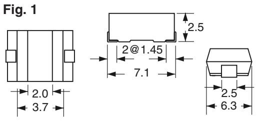

Fig. 2

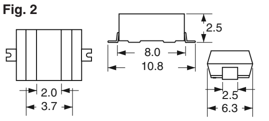

Voltage	Capacitance	Cap. Tol. %	Temp. Char.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	Panasonic Part No.
Fig. 1 – J-Lead										
250VAC	1000pF	±20	E	P10739CT-ND◆	1.43	1.13	1.02	P10739TR-ND◆	816.00/M	ECK-TBC102ME
	1500pF	±20	E	P10740CT-ND	1.43	1.13	1.02	P10740TR-ND	816.00/M	ECK-TBC152ME
	2200pF	±20	E	P10741CT-ND◆	1.43	1.13	1.02	P10741TR-ND◆	816.00/M	ECK-TBC222ME
	3300pF	±20	F	P10742CT-ND	1.43	1.13	1.02	P10742TR-ND	816.00/M	ECK-TBC332MF
	4700pF	±20	F	P10743CT-ND◆	1.43	1.13	1.02	P10743TR-ND◆	816.00/M	ECK-TBC472MF
Fig. 2 – Gull-Wing										
250VAC	1000pF	±20	E	P10744CT-ND	1.19	.94	.86	—	—	ECK-TBC102MEM
	1500pF	±20	E	P10745CT-ND	1.19	.94	.86	P10745TR-ND	681.80/M	ECK-TBC152MEM
	3300pF	±20	F	P10747CT-ND	1.19	.94	.86	—	—	ECK-TBC332MFM

◆ ***RoHS Compliant***

Ceramic Capacitors for Safety Regulations - Type FC (Sub-Class Y2) (SMD)

FEATURES: • Safety Capacitor for reflow soldering process • Approved by SEMKO (IEC60384-14/EN132400 Sub-class Y2) and UL/CSA (Line-by-pass Capacitors) • High reliability through disc capacitor element with resin molded construction

RECOMMENDED APPLICATIONS: • DC-DC Converter, Power module • MODEM, xDSL • Application EX. (MODEM) **RATINGS:** • **Dimensions:** 5.7L x 4.5W X 2.3T (mm) • **Operating Temperature Range:** -25°C ~ 100°C • **Voltage Proof:** 1500VAC, 1 minute

Temp. Char.	Cap. Change	Temp. Range
SL	+350 ~ -1000ppm/°C	+20°C ~ +85°C
B	±10% Maximum	-20°C ~ +85°C
E	+20, -55% Maximum	-20°C ~ +85°C
F	+30, -80% Maximum	-20°C ~ +85°C
The reference temperature: 20°C		

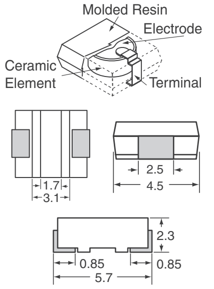

Voltage	Cap.	Cap. Tol. %	Temp. Char.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Panasonic Part No.
250VAC	5pF	±0.5pF	SL	P11424CT-ND	1.39	1.10	1.00	P11424TR-ND	796.00/M	ECC-TFC050DG
	10pF	±0.5pF	SL	P11425CT-ND	1.39	1.10	1.00	P11425TR-ND	796.00/M	ECC-TFC100DG
	22pF	±5%	SL	P11426CT-ND	1.39	1.10	1.00	P11426TR-ND	796.00/M	ECC-TFC220JG
	47pF	±10%	B	P11427CT-ND◆	1.43	1.13	1.02	P11427TR-ND◆	816.00/M	ECK-TFC470KB
	100pF	±10%	B	P11428CT-ND	1.43	1.13	1.02	P11428TR-ND	816.00/M	ECK-TFC101KB
	150pF	±10%	B	P11429CT-ND	1.43	1.13	1.02	P11429TR-ND	816.00/M	ECK-TFC151KB
	220pF	±10%	B	P11430CT-ND◆	1.43	1.13	1.02	P11430TR-ND◆	816.00/M	ECK-TFC221KB
	330pF	±10%	B	P11431CT-ND	1.43	1.13	1.02	P11431TR-ND	816.00/M	ECK-TFC331KB
	470pF	±10%	B	P11432CT-ND◆	1.43	1.13	1.02	P11432TR-ND◆	816.00/M	ECK-TFC471KB
	1000pF	±20%	E	P11434CT-ND◆	1.43	1.13	1.02	P11434TR-ND◆	816.00/M	ECK-TFC102ME
	1500pF	±20%	F	P11435CT-ND◆	1.43	1.13	1.02	P11435TR-ND◆	816.00/M	ECK-TFC152MF
	2200pF	±20%	F	P11436CT-ND◆	1.43	1.13	1.02	P11436TR-ND◆	816.00/M	ECK-TFC222MF

◆ ***RoHS Compliant***

Ceramic Disc Capacitors - Type GL

FEATURES:

- Rated: 250VAC
- CSA rating: 125VAC

APPLICATIONS:

- Antenna coupling
- Line-bypass and Across-the-line
- Switching surge killer, etc.

UL 1414 • CSA C22.2 APPROVED

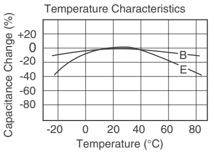

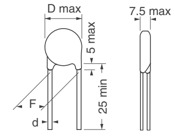

Voltage	Capacitance	Tolerance	Temp. Char.	Dimensions (mm) Dia.	Thickness	Lead-Space	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
250	100pF	±20%	B	8.0	5.5	7.5	P4484-ND	.61	.46	.33	.19	ECK-DGL101MB
	150pF	±20%	B	8.0	5.5	7.5	P4485-ND	.61	.46	.33	.19	ECK-DGL150MB
	680pF	±20%	B	9.0	5.5	7.5	P4489-ND	.65	.48	.34	.20	ECK-DGL681MB
	1000pF	±20%	E	9.0	5.5	7.5	P4490-ND	.52	.39	.28	.16	ECK-DGL102ME

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic®

High Capacitance Multilayer Ceramic Chip (MLCC) Capacitors

Now available in capacitance values of 1 µF (in 0402) up to 100 µF (in 1210)

More Options are Available when Choosing Capacitors

Advances in ceramic technology have now increased your choices when selecting the best capacitor for your application. No longer are you restricted to Aluminum Electrolytic, Tantalum or Chip Film Capacitors. High capacitance MLCC capacitors from Panasonic now offer higher capacitance and better performance. The superior reliability, ESR and impedance of MLCCs can now be found in higher capacitance values.

Product Design Benefits

Several technology improvements have made it possible for Panasonic to put more capacitance (1µF and greater) into smaller case sizes (1210 down to 0402) while maintaining the largest possible operating voltage (6.3V up to 50V). These mechanical and electrical characteristics will enable you to make products having smaller size, less weight, increased performance and at a lower cost, thereby making your products more competitive.

Electrical Performance Advantages of MLCCs

The lower Impedance and Equivalent Series Resistance (ESR) of MLCC Capacitors vs. Tantalum Capacitors, especially at the higher frequencies in the 100kHz to 1MHz range, provides a performance advantage for your decoupling needs.

Lower Equivalent Series Resistance (ESR)

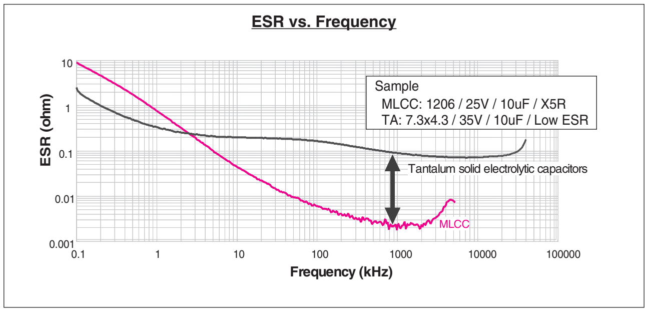

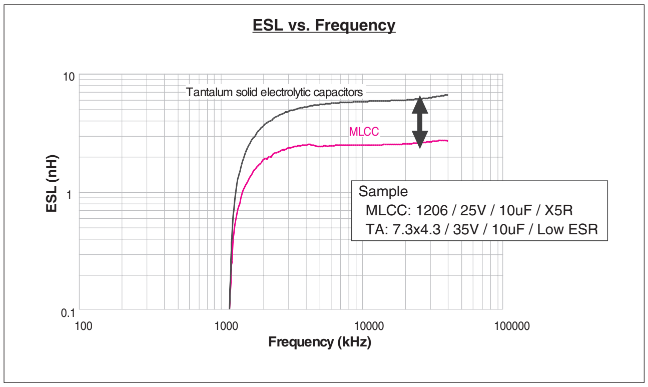

Lower Impedance (Z)

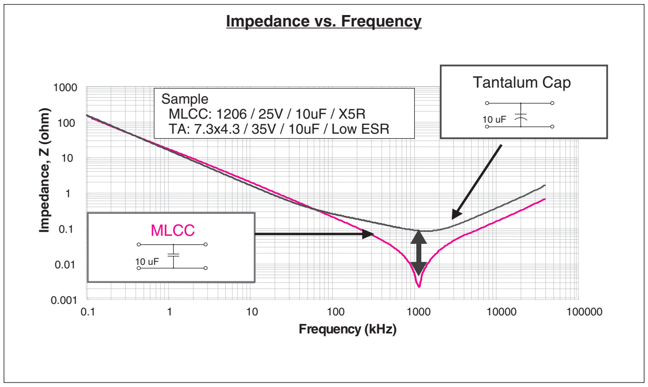

Engineering Kit of High Capacitance Multilayer Ceramic Chip (MLCC) Capacitors is available.

PCC18B-KIT-ND..**$49.95**

Contains 20 pieces each of 20 assorted values - 400 pieces total. Values range from 1µF to 22µF in case sizes 0402 - 1206, and 0405 array. Temperature characteristic is X5R. Please call Digi-Key for details.

Microwave (Hi-Q) Multilayer Ceramic Chip Capacitors

Now Available in Case Sizes of 0402 (0.1 ~ 15 pF) and 0201 (0.1 ~ 3 pF)

Features and Major Characteristics:

- High-Q values compared to standard MLCCs, due to their unique materials that includes silver inner-electrodes (refer to the graphs)
- Small Case Sizes: 0201 (0.6 x 0.3 mm) and 0402 (1.0 x 0.5 mm) Wide Range of Capacitance Values (0.1 to 15 pF, in 0.1 increments)
- Tight Capacitance Tolerances (as low as + / - 0.05 pF for 0.5 pF and lower)
- Very Stable C0G Temperature Characteristics (0 + / - 30 ppm / °C) 25V Rated Operating Voltage
- Lead (Pb) Free Part Numbers: ECD-G0Exxxx (0402) and ECD-GZExxxx (0201) (Dielectric Materials, Electrodes, and Terminations)

Benefits:

Excellent electrical performance in RF and Microwave circuitry such as Impedance Matching, Resonant Circuits and Coupling.

Typical Applications:

Their small sizes are especially suited for RF and Microwave Circuitry contained within: RF Front-end Modules, Power Amplifier (PA) Modules, Duplexers, Voltage Controlled Oscillators (VCOs), Filter Circuitry (such as Band-Pass Filters), Impedance Matching Circuitry, Resonant Circuitry, Coupling and Bluetooth, Wireless LAN and Modem products.

Hi-Q Kits available in 0201 and 0402 case sizes. Call Digi-Key for details.

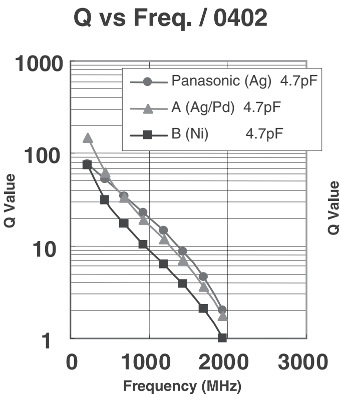

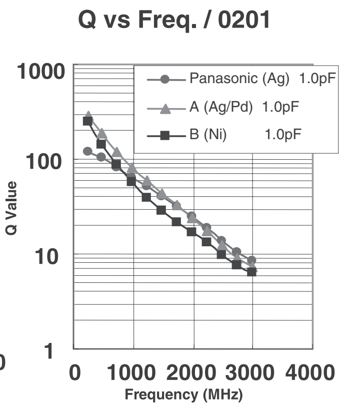

Panasonic® Multilayer Ceramic Chip Capacitors

0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812

FEATURES: • Small in size and wide capacitance range • Superior humidity characteristic and long life due to the monolithic construction • Excellent solderability and resistance to soldering heat due to terminals with three layers of silver nickel and solder • Low self-inductance and excellent frequency characteristic **RECOMMENDED APPLICATIONS: Class 1 (T.C. Type)**: Temperature compensations, tuned circuits and filter circuits, where low loss and high stability of capacitance and high insulation resistance are required. **Class 2 (HI-K type)**: Coupling and By-pass, where low loss and high stability of capacitance are not so important.

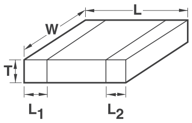

NP0 Type - Class 1:
- Operating temperature range: -55°C ~ 125°C

Temperature Coefficient

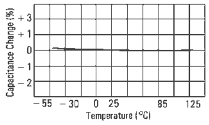

X7R Type - Class 2:
- Operating temperature range: -55°C ~ 125°C

X5R Type - Class 2:
- Operating temperature range: -55°C ~ 85°C

Temperature Coefficient

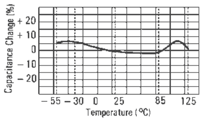

X5S Type - Class 2:
- Operating temperature range: -55°C ~ 85°C

Temperature Coefficient

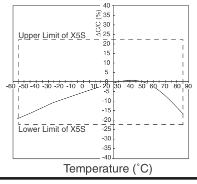

Y5V Type - Class 2:
- Operating temperature range: -30°C ~ 85°C

(F Type: -25°C ~ 85°C)

Temperature Coefficient

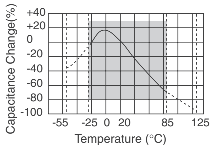

Dimensions shown in mm.

Size Code (EIA)	L◊	W◊	L1 / L2
0201	0.6	0.3	0.15
0402	1.00	0.50	0.20
0508	1.25	2.00	0.20
0603	1.60	0.80	0.30
0612	1.60	3.2	0.30
0805	2.0	1.25	0.50
1206	3.20	1.60	0.60
1210	3.20	2.50	0.60
1812	4.50	3.20	0.90

◊ See data sheet for dimensional tolerance.

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
0201	NP0	25	0.5pF	±.25pF	0.30	PCC2101CT-ND◆	.30	1.63	5.72	10.12	PCC2101TR-ND◆	15,000	7.62/M	ECJ-ZEC1E0R5C
			1.0pF	±.25pF	0.30	PCC2102CT-ND◆	.30	1.63	5.72	10.12	PCC2102TR-ND◆	15,000	7.62/M	ECJ-ZEC1E010C
			1.5pF	±.25pF	0.30	PCC2103CT-ND◆	.30	1.63	5.72	10.12	PCC2103TR-ND◆	15,000	7.62/M	ECJ-ZEC1E1R5C
			2.0pF	±.25pF	0.30	PCC2104CT-ND◆	.30	1.63	5.72	10.12	PCC2104TR-ND◆	15,000	7.62/M	ECJ-ZEC1E020C
			3.0pF	±.25pF	0.30	PCC2105CT-ND◆	.30	1.63	5.72	10.12	PCC2105TR-ND◆	15,000	7.62/M	ECJ-ZEC1E030C
			4.0pF	±.25pF	0.30	PCC2106CT-ND◆	.30	1.63	5.72	10.12	PCC2106TR-ND◆	15,000	7.62/M	ECJ-ZEC1E040C
			5.0pF	±.25pF	0.30	PCC2107CT-ND◆	.30	1.63	5.72	10.12	PCC2107TR-ND◆	15,000	7.62/M	ECJ-ZEC1E050C
			6.0pF	±.5pF	0.30	PCC2108CT-ND	.30	1.63	5.72	10.12	PCC2108TR-ND	15,000	7.62/M	ECJ-ZEC1E060D
			7.0pF	±.5pF	0.30	PCC2109CT-ND	.30	1.63	5.72	10.12	PCC2109TR-ND	15,000	7.62/M	ECJ-ZEC1E070D
			8.0pF	±.5pF	0.30	PCC2110CT-ND◆	.30	1.63	5.72	10.12	PCC2110TR-ND◆	15,000	7.62/M	ECJ-ZEC1E080D
			9.0pF	±.5pF	0.30	PCC2111CT-ND◆	.30	1.63	5.72	10.12	PCC2111TR-ND◆	15,000	7.62/M	ECJ-ZEC1E090D
			10pF	±.5pF	0.30	PCC2112CT-ND◆	.30	1.63	5.72	10.12	PCC2112TR-ND◆	15,000	7.62/M	ECJ-ZEC1E100D
			12pF	±5%	0.30	PCC2113CT-ND◆	.30	1.63	5.72	10.12	PCC2113TR-ND◆	15,000	7.62/M	ECJ-ZEC1E120J
			15pF	±5%	0.30	PCC2114CT-ND◆	.30	1.63	5.72	10.12	PCC2114TR-ND◆	15,000	7.62/M	ECJ-ZEC1E150J
			18pF	±5%	0.30	PCC2115CT-ND◆	.30	1.63	5.72	10.12	PCC2115TR-ND◆	15,000	7.62/M	ECJ-ZEC1E180J
			22pF	±5%	0.30	PCC2116CT-ND◆	.30	1.63	5.72	10.12	PCC2116TR-ND◆	15,000	7.62/M	ECJ-ZEC1E220J
			27pF	±5%	0.30	PCC2117CT-ND◆	.30	1.63	5.72	10.12	PCC2117TR-ND◆	15,000	7.62/M	ECJ-ZEC1E270J
			33pF	±5%	0.30	PCC2118CT-ND◆	.30	1.63	5.72	10.12	PCC2118TR-ND◆	15,000	7.62/M	ECJ-ZEC1E330J
		16	39pF	±5%	0.30	PCC2119CT-ND	.30	1.63	5.72	10.12	PCC2119TR-ND	15,000	7.62/M	ECJ-ZEC1C390J
			47pF	±5%	0.30	PCC2120CT-ND◆	.30	1.63	5.72	10.12	PCC2120TR-ND◆	15,000	7.62/M	ECJ-ZEC1C470J
			56pF	±5%	0.30	PCC2121CT-ND◆	.30	1.63	5.72	10.12	PCC2121TR-ND◆	15,000	7.62/M	ECJ-ZEC1C560J
			68pF	±5%	0.30	PCC2122CT-ND◆	.30	1.63	5.72	10.12	PCC2122TR-ND◆	15,000	7.62/M	ECJ-ZEC1C680J
			82pF	±5%	0.30	PCC2123CT-ND	.30	1.63	5.72	10.12	PCC2123TR-ND	15,000	7.62/M	ECJ-ZEC1C820J
			100pF	±5%	0.30	PCC2124CT-ND◆	.30	1.63	5.72	10.12	PCC2124TR-ND◆	15,000	7.62/M	ECJ-ZEC1C101J
	X7R	50	150pF	±10%	0.30	PCC2388CT-ND◆	.30	1.63	5.72	10.12	PCC2388TR-ND◆	15,000	8.00/M	ECJ-ZEB1H151K
			220pF	±10%	0.30	PCC2389CT-ND◆	.30	1.63	5.72	10.12	PCC2389TR-ND◆	15,000	8.00/M	ECJ-ZEB1H221K
			330pF	±10%	0.30	PCC2390CT-ND◆	.30	1.63	5.72	10.12	PCC2390TR-ND◆	15,000	8.00/M	ECJ-ZEB1H331K
			470pF	±10%	0.30	PCC2391CT-ND◆	.30	1.63	5.72	10.12	PCC2391TR-ND◆	15,000	8.00/M	ECJ-ZEB1H471K
			680pF	±10%	0.30	PCC2392CT-ND◆	.30	1.63	5.72	10.12	PCC2392TR-ND◆	15,000	8.00/M	ECJ-ZEB1H681K
			1000pF	±10%	0.30	PCC2387CT-ND◆	.30	1.63	5.72	10.12	PCC2387TR-ND◆	15,000	8.00/M	ECJ-ZEB1H102K
		25	150pF	±10%	0.30	PCC2125CT-ND	.30	1.63	5.72	10.12	PCC2125TR-ND	15,000	7.62/M	ECJ-ZEB1E151K
			220pF	±10%	0.30	PCC2126CT-ND◆	.30	1.63	5.72	10.12	PCC2126TR-ND◆	15,000	7.62/M	ECJ-ZEB1E221K
			331pF	±10%	0.30	PCC2127CT-ND	.30	1.63	5.72	10.12	PCC2127TR-ND	15,000	7.62/M	ECJ-ZEB1E331K
			470pF	±10%	0.30	PCC2128CT-ND◆	.30	1.63	5.72	10.12	PCC2128TR-ND◆	15,000	7.62/M	ECJ-ZEB1E471K
			680pF	±10%	0.30	PCC2129CT-ND	.30	1.63	5.72	10.12	PCC2129TR-ND	15,000	7.62/M	ECJ-ZEB1E681K
			1000pF	±10%	0.30	PCC2130CT-ND◆	.30	1.63	5.72	10.12	PCC2130TR-ND◆	15,000	7.62/M	ECJ-ZEB1E102K
			1500pF	±10%	0.30	PCC2385CT-ND◆	.30	1.63	5.72	10.12	PCC2385TR-ND◆	15,000	8.00/M	ECJ-ZEB1E152K
			2200pF	±10%	0.30	PCC2386CT-ND◆	.30	1.63	5.72	10.12	PCC2386TR-ND◆	15,000	8.00/M	ECJ-ZEB1E222K
		16	1500pF	±10%	0.30	PCC2131CT-ND	.30	1.63	5.72	10.12	PCC2131TR-ND	15,000	7.62/M	ECJ-ZEB1C152K
			2200pF	±10%	0.30	PCC2132CT-ND◆	.30	1.63	5.72	10.12	PCC2132TR-ND◆	15,000	7.62/M	ECJ-ZEB1C222K
			3300pF	±10%	0.30	PCC2384CT-ND◆	.30	1.63	5.72	10.12	PCC2384TR-ND◆	15,000	8.00/M	ECJ-ZEB1C332K
		10	3300pF	±10%	0.30	PCC2133CT-ND	.30	1.63	5.72	10.12	PCC2133TR-ND	15,000	7.62/M	ECJ-ZEB1A332K
	X5R	6.3	4700pF	±10%	0.30	PCC2134CT-ND◆	.30	1.63	5.72	10.12	PCC2134TR-ND◆	15,000	7.62/M	ECJ-ZEB0J472K
			6800pF	±10%	0.30	PCC2135CT-ND◆	.30	1.63	5.72	10.12	PCC2135TR-ND◆	15,000	7.62/M	ECJ-ZEB0J682K
			10000pF	±10%	0.30	PCC2136CT-ND◆	.32	1.76	6.37	11.27	PCC2136TR-ND◆	15,000	8.33/M	ECJ-ZEB0J103K
			.1µF	±10%	0.30	PCC2366CT-ND◆	.43	2.41	8.88	16.28	PCC2366TR-ND◆	15,000	12.00/M	ECJ-ZEB0J104K
			.1µF	±10%	0.30	PCC13492CT-ND◆†	.76	4.97	16.09	20.48	PCC13492TR-ND◆†	15,000	15.00/M	ECJ-ZEBFJ104K
			.1µF	±20%	0.30	PCC2336CT-ND◆	.39	2.18	7.92	14.52	PCC2336TR-ND◆	15,000	11.00/M	ECJ-ZEB0J104M
			.22µF	±20%	0.30	PCC2423CT-ND◆	1.15	7.52	24.34	30.98	PCC2423TR-ND◆	15,000	23.00/M	ECJ-ZEB0J224M
		10	4700pF	±10%	0.30	PCC2382CT-ND	.30	1.63	5.72	10.12	PCC2382TR-ND	15,000	8.00/M	ECJ-ZEB1A472K
			6800pF	±10%	0.30	PCC2383CT-ND	.30	1.63	5.72	10.12	PCC2383TR-ND	15,000	8.00/M	ECJ-ZEB1A682K
			.01µF	±10%	0.30	PCC2381CT-ND◆	.32	1.76	6.37	11.27	PCC2381TR-ND◆	15,000	8.00/M	ECJ-ZEB1A103K
			0.1µF	±20%	0.30	PCC2424CT-ND◆	1.20	7.86	25.44	32.38	PCC2424TR-ND◆	15,000	24.00/M	ECJ-ZEB1A104M
0402	NPO	50	.5pF	±.25pF	0.50	PCC0R5CQCT-ND◆§	.26	1.41	5.09	8.88	PCC0R5CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H0R5C
			1.0pF	±.25pF	0.50	PCC010CQCT-ND◆§	.26	1.41	5.09	8.88	PCC010CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H010C
			1.5pF	±.25pF	0.50	PCC1R5CQCT-ND◆§	.26	1.41	5.09	8.88	PCC1R5CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H1R5C
			2.0pF	±.25pF	0.50	PCC020CQCT-ND◆§	.26	1.41	5.09	8.88	PCC020CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H020C
			3.0pF	±.25pF	0.50	PCC030CQCT-ND◆§	.26	1.41	5.09	8.88	PCC030CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H030C
			4.0pF	±.25pF	0.50	PCC040CQCT-ND§	.26	1.41	5.09	8.88	PCC040CQTR-ND§	10,000	7.00/M	ECJ-0EC1H040C
			5.0pF	±.25pF	0.50	PCC050CQCT-ND§	.26	1.41	5.09	8.88	PCC050CQTR-ND§	10,000	7.00/M	ECJ-0EC1H050C
			6.0pF	±.5pF	0.50	PCC060CQCT-ND◆§	.26	1.41	5.09	8.88	PCC060CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H060D
			7.0pF	±.5pF	0.50	PCC070CQCT-ND◆§	.26	1.41	5.09	8.88	PCC070CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H070D
			8.0pF	±.5pF	0.50	PCC080CQCT-ND§	.26	1.41	5.09	8.88	PCC080CQTR-ND§	10,000	7.00/M	ECJ-0EC1H080D
			9.0pF	±.5pF	0.50	PCC090CQCT-ND◆§	.26	1.41	5.09	8.88	PCC090CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H090D
			10pF	±.5pF	0.50	PCC100CQCT-ND◆§	.26	1.41	5.09	8.88	PCC100CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H100D
			12pF	±5%	0.50	PCC120CQCT-ND◆§	.26	1.41	5.09	8.88	PCC120CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H120J
			15pF	±5%	0.50	PCC150CQCT-ND◆§	.26	1.41	5.09	8.88	PCC150CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H150J
			18pF	±5%	0.50	PCC180CQCT-ND◆§	.26	1.41	5.09	8.88	PCC180CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H180J
			22pF	±5%	0.50	PCC220CQCT-ND◆§	.26	1.41	5.09	8.88	PCC220CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H220J
			27pF	±5%	0.50	PCC270CQCT-ND◆§	.26	1.41	5.09	8.88	PCC270CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H270J
			33pF	±5%	0.50	PCC330CQCT-ND◆§	.26	1.41	5.09	8.88	PCC330CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H330J
			39pF	±5%	0.50	PCC390CQCT-ND◆§	.26	1.41	5.09	8.88	PCC390CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H390J
			47pF	±5%	0.50	PCC470CQCT-ND◆§	.26	1.41	5.09	8.88	PCC470CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H470J
			56pF	±5%	0.50	PCC560CQCT-ND◆§	.26	1.41	5.09	8.88	PCC560CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H560J
			68pF	±5%	0.50	PCC680CQCT-ND◆§	.26	1.41	5.09	8.88	PCC680CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H680J
			82pF	±5%	0.50	PCC820CQCT-ND◆§	.26	1.41	5.09	8.88	PCC820CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H820J
			100pF	±5%	0.50	PCC101CQCT-ND◆§	.26	1.41	5.09	8.88	PCC101CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H101J
			120pF	±5%	0.50	PCC121CQCT-ND◆§	.26	1.41	5.09	8.88	PCC121CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H121J
			150pF	±5%	0.50	PCC151CQCT-ND◆§	.26	1.41	5.09	8.88	PCC151CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H151J
			180pF	±5%	0.50	PCC181CQCT-ND◆§	.26	1.41	5.09	8.88	PCC181CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H181J

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							10	100	500	1,000		Qty.	Pricing	
0402	NP0	50	220pF	±5%	0.50	PCC221CQCT-ND◆§	.26	1.41	5.09	8.88	PCC221CQTR-ND◆§	10,000	7.00/M	ECJ-0EC1H221J
	X7R	50	100pF	±10%	0.50	PCC1709CT-ND◆§	.26	1.41	5.09	8.88	PCC1709TR-ND◆§	10,000	7.00/M	ECJ-0EB1H101K
			120pF	±10%	0.50	PCC1710CT-ND◆§	.26	1.41	5.09	8.88	PCC1710TR-ND◆§	10,000	7.00/M	ECJ-0EB1H121K
			150pF	±10%	0.50	PCC1711CT-ND◆§	.26	1.41	5.09	8.88	PCC1711TR-ND◆§	10,000	7.00/M	ECJ-0EB1H151K
			180pF	±10%	0.50	PCC1712CT-ND◆§	.26	1.41	5.09	8.88	PCC1712TR-ND◆§	10,000	7.00/M	ECJ-0EB1H181K
			220pF	±10%	0.50	PCC1713CT-ND◆§	.26	1.41	5.09	8.88	PCC1713TR-ND◆§	10,000	7.00/M	ECJ-0EB1H221K
			270pF	±10%	0.50	PCC1714CT-ND◆§	.26	1.41	5.09	8.88	PCC1714TR-ND◆§	10,000	7.00/M	ECJ-0EB1H271K
			330pF	±10%	0.50	PCC1715CT-ND◆§	.26	1.41	5.09	8.88	PCC1715TR-ND◆§	10,000	7.00/M	ECJ-0EB1H331K
			390pF	±10%	0.50	PCC1716CT-ND◆§	.26	1.41	5.09	8.88	PCC1716TR-ND◆§	10,000	7.00/M	ECJ-0EB1H391K
			470pF	±10%	0.50	PCC1717CT-ND◆§	.26	1.41	5.09	8.88	PCC1717TR-ND◆§	10,000	7.00/M	ECJ-0EB1H471K
			560pF	±10%	0.50	PCC1718CT-ND◆§	.26	1.41	5.09	8.88	PCC1718TR-ND◆§	10,000	7.00/M	ECJ-0EB1H561K
			680pF	±10%	0.50	PCC1719CT-ND◆§	.26	1.41	5.09	8.88	PCC1719TR-ND◆§	10,000	7.00/M	ECJ-0EB1H681K
			820pF	±10%	0.50	PCC1720CT-ND◆§	.26	1.41	5.09	8.88	PCC1720TR-ND◆§	10,000	7.00/M	ECJ-0EB1H821K
			1000pF	±10%	0.50	PCC1721CT-ND◆§	.26	1.41	5.09	8.88	PCC1721TR-ND◆§	10,000	7.00/M	ECJ-0EB1H102K
			1200pF	±10%	0.50	PCC1722CT-ND◆§	.26	1.41	5.09	8.88	PCC1722TR-ND◆§	10,000	7.00/M	ECJ-0EB1H122K
			1500pF	±10%	0.50	PCC1723CT-ND◆§	.26	1.41	5.09	8.88	PCC1723TR-ND◆§	10,000	7.00/M	ECJ-0EB1H152K
			1800pF	±10%	0.50	PCC1724CT-ND◆§	.26	1.41	5.09	8.88	PCC1724TR-ND◆§	10,000	7.00/M	ECJ-0EB1H182K
			2200pF	±10%	0.50	PCC1725CT-ND◆§	.26	1.41	5.09	8.88	PCC1725TR-ND◆§	10,000	7.00/M	ECJ-0EB1H222K
			2700pF	±10%	0.50	PCC1726CT-ND◆§	.26	1.41	5.09	8.88	PCC1726TR-ND◆§	10,000	7.00/M	ECJ-0EB1H272K
			3300pF	±10%	0.50	PCC1727CT-ND◆§	.26	1.41	5.09	8.88	PCC1727TR-ND◆§	10,000	7.00/M	ECJ-0EB1H332K
			3900pF	±10%	0.50	PCC1728CT-ND◆§	.26	1.41	5.09	8.88	PCC1728TR-ND◆§	10,000	7.00/M	ECJ-0EB1H392K
		25	100pF	±10%	0.50	PCC1702CT-ND◆	2.81	19.80	68.40	108.00	PCC1702TR-ND◆	10,000	90.00/M	ECJ-0EB1E101K
			120pF	±10%	0.50	PCC1703CT-ND◆	2.81	19.80	68.40	108.00	PCC1703TR-ND◆	10,000	90.00/M	ECJ-0EB1E121K
			150pF	±10%	0.50	PCC1704CT-ND◆	2.81	19.80	68.40	108.00	PCC1704TR-ND◆	10,000	90.00/M	ECJ-0EB1E151K
			180pF	±10%	0.50	PCC1705CT-ND	2.81	19.80	68.40	108.00	PCC1705TR-ND	10,000	90.00/M	ECJ-0EB1E181K
			220pF	±10%	0.50	PCC1706CT-ND◆	2.81	19.80	68.40	108.00	PCC1706TR-ND◆	10,000	90.00/M	ECJ-0EB1E221K
			270pF	±10%	0.50	PCC271BQCT-ND◆	2.89	20.35	70.30	111.00	PCC271BQTR-ND◆	10,000	93.00/M	ECJ-0EB1E271K
			330pF	±10%	0.50	PCC331BQCT-ND◆	2.89	20.35	70.30	111.00	PCC331BQTR-ND◆	10,000	93.00/M	ECJ-0EB1E331K
			391pF	±10%	0.50	PCC391BQCT-ND◆	2.89	20.35	70.30	111.00	PCC391BQTR-ND◆	10,000	93.00/M	ECJ-0EB1E391K
			470pF	±10%	0.50	PCC471BQCT-ND◆	2.89	20.35	70.30	111.00	PCC471BQTR-ND◆	10,000	93.00/M	ECJ-0EB1E471K
			560pF	±10%	0.50	PCC561BQCT-ND◆	2.89	20.35	70.30	111.00	PCC561BQTR-ND◆	10,000	93.00/M	ECJ-0EB1E561K
			680pF	±10%	0.50	PCC681BQCT-ND◆	2.89	20.35	70.30	111.00	PCC681BQTR-ND◆	10,000	93.00/M	ECJ-0EB1E681K
			820pF	±10%	0.50	PCC821BQCT-ND◆	2.89	20.35	70.30	111.00	PCC821BQTR-ND◆	10,000	93.00/M	ECJ-0EB1E821K
			1000pF	±10%	0.50	PCC102BQCT-ND◆	2.89	20.35	70.30	111.00	PCC102BQTR-ND◆	10,000	93.00/M	ECJ-0EB1E102K
			1200pF	±10%	0.50	PCC122BQCT-ND◆	2.89	20.35	70.30	111.00	PCC122BQTR-ND◆	10,000	93.00/M	ECJ-0EB1E122K
			1500pF	±10%	0.50	PCC152BQCT-ND◆	2.89	20.35	70.30	111.00	PCC152BQTR-ND◆	10,000	93.00/M	ECJ-0EB1E152K
			1800pF	±10%	0.50	PCC182BQCT-ND◆	2.89	20.35	70.30	111.00	PCC182BQTR-ND◆	10,000	93.00/M	ECJ-0EB1E182K
			2200pF	±10%	0.50	PCC222BQCT-ND◆	2.89	20.35	70.30	111.00	PCC222BQTR-ND◆	10,000	93.00/M	ECJ-0EB1E222K
			2700pF	±10%	0.50	PCC272BQCT-ND◆	3.12	22.00	76.00	120.00	PCC272BQTR-ND◆	10,000	100.00/M	ECJ-0EB1E272K
			3300pF	±10%	0.50	PCC332BQCT-ND◆	3.39	23.93	82.65	130.50	PCC332BQTR-ND◆	10,000	109.00/M	ECJ-0EB1E332K
			3900pF	±10%	0.50	PCC392BQCT-ND◆	3.51	24.75	85.50	135.00	PCC392BQTR-ND◆	10,000	113.00/M	ECJ-0EB1E392K
			4700pF	±10%	0.50	PCC472BQCT-ND◆§	.26	1.41	5.09	8.88	PCC472BQTR-ND◆§	10,000	7.00/M	ECJ-0EB1E472K
			5600pF	±10%	0.50	PCC1707CT-ND◆§	.26	1.41	5.09	8.88	PCC1707TR-ND◆§	10,000	7.00/M	ECJ-0EB1E562K
			6800pF	±10%	0.50	PCC1708CT-ND◆§	.26	1.41	5.09	8.88	PCC1708TR-ND◆§	10,000	7.00/M	ECJ-0EB1E682K
			8200pF	±10%	0.50	PCC2271CT-ND◆	.26	1.41	5.09	8.88	PCC2271TR-ND◆	10,000	7.00/M	ECJ-0EB1E822K
			.01µF	±10%	0.50	PCC2270CT-ND◆	.26	1.41	5.09	8.88	PCC2270TR-ND◆	10,000	7.00/M	ECJ-0EB1E103K
		16	5600pF	±10%	0.50	PCC562BQCT-ND◆	2.42	17.05	58.90	93.00	PCC562BQTR-ND◆	10,000	78.00/M	ECJ-0EB1C562K
			6800pF	±10%	0.50	PCC682BQCT-ND◆	2.50	17.60	60.80	96.00	PCC682BQTR-ND◆	10,000	80.00/M	ECJ-0EB1C682K
			8200pF	±10%	0.50	PCC822BQCT-ND◆§	2.54	17.88	61.75	97.50	PCC822BQTR-ND◆§	10,000	81.00/M	ECJ-0EB1C822K
			10000pF	±10%	0.50	PCC103BQCT-ND◆§	.26	1.41	5.09	8.88	PCC103BQTR-ND◆§	10,000	7.00/M	ECJ-0EB1C103K
			12000pF	±10%	0.50	PCC1700CT-ND◆§	.26	1.41	5.09	8.88	PCC1700TR-ND◆§	10,000	7.00/M	ECJ-0EB1C123K
			15000pF	±10%	0.50	PCC1701CT-ND◆§	.28	1.52	5.33	9.84	PCC1701TR-ND◆§	10,000	7.00/M	ECJ-0EB1C153K
			18000pF	±10%	0.50	PCC2137CT-ND◆§	.31	1.75	6.25	11.25	PCC2137TR-ND◆§	10,000	9.00/M	ECJ-0EB1C183K
			22000pF	±10%	0.50	PCC2138CT-ND◆§	.31	1.75	6.25	11.25	PCC2138TR-ND◆§	10,000	9.00/M	ECJ-0EB1C223K
			.1µF	±10%	0.50	PCC13490CT-ND◆	1.14	7.44	24.06	30.63	PCC13490TR-ND◆	10,000	25.00/M	ECJ-0EX1C104K
	X5R	16	27000pF	±10%	0.50	PCC2433CT-ND◆	.49	2.82	10.47	19.11	PCC2433TR-ND◆	10,000	15.00/M	ECJ-0EB1C273K
			33000pF	±10%	0.50	PCC2434CT-ND◆	.49	2.82	10.47	19.11	PCC2434TR-ND◆	10,000	15.00/M	ECJ-0EB1C333K
			39000pF	±10%	0.50	PCC2435CT-ND◆	.49	2.82	10.47	19.11	PCC2435TR-ND◆	10,000	15.00/M	ECJ-0EB1C393K
			47000pF	±10%	0.50	PCC2436CT-ND◆	.49	2.82	10.47	19.11	PCC2436TR-ND◆	10,000	15.00/M	ECJ-0EB1C473K
			56000pF	±10%	0.50	PCC2437CT-ND◆	.49	2.82	10.47	19.11	PCC2437TR-ND◆	10,000	15.00/M	ECJ-0EB1C563K
			68000pF	±10%	0.50	PCC2438CT-ND◆	.49	2.82	10.47	19.11	PCC2438TR-ND◆	10,000	15.00/M	ECJ-0EB1C683K
			82000pF	±10%	0.50	PCC2439CT-ND◆	.49	2.82	10.47	19.11	PCC2439TR-ND◆	10,000	15.00/M	ECJ-0EB1C823K
			.1µF	±10%	0.50	PCC2363CT-ND◆	.72	4.68	15.13	19.25	PCC2363TR-ND◆	10,000	15.00/M	ECJ-0EB1C104K
			0.22µF	±10%	0.50	PCC2425CT-ND◆	2.50	16.36	52.94	67.38	PCC2425TR-ND◆	10,000	54.00/M	ECJ-0EB1C224K
		10	27000pF	±10%	0.50	PCC2139CT-ND◆	.32	1.82	6.50	11.70	PCC2139TR-ND◆	10,000	9.00/M	ECJ-0EB1A273K
			33000pF	±10%	0.50	PCC2140CT-ND◆	.32	1.82	6.50	11.70	PCC2140TR-ND◆	10,000	9.00/M	ECJ-0EB1A333K
			39000pF	±10%	0.50	PCC2141CT-ND◆	.32	1.82	6.50	11.70	PCC2141TR-ND◆	10,000	9.00/M	ECJ-0EB1A393K
			47000pF	±10%	0.50	PCC2142CT-ND◆	.32	1.82	6.50	11.70	PCC2142TR-ND◆	10,000	9.00/M	ECJ-0EB1A473K
			56000pF	±10%	0.50	PCC2143CT-ND◆	.32	1.82	6.50	11.70	PCC2143TR-ND◆	10,000	9.00/M	ECJ-0EB1A563K
			68000pF	±10%	0.50	PCC2144CT-ND◆	.32	1.82	6.50	11.70	PCC2144TR-ND◆	10,000	9.00/M	ECJ-0EB1A683K
			82000pF	±10%	0.50	PCC2145CT-ND◆	.32	1.82	6.50	11.70	PCC2145TR-ND◆	10,000	9.00/M	ECJ-0EB1A823K
			.1µF	±10%	0.50	PCC2146CT-ND◆	.38	2.14	7.88	13.86	PCC2146TR-ND◆	10,000	11.00/M	ECJ-0EB1A104K
			1.0µF	±20%	0.50	PCC2364CT-ND◆	1.91	12.50	40.43	51.45	PCC2364TR-ND◆	10,000	41.00/M	ECJ-0EB1A105M
		6.3	.22µF	±10%	0.50	PCC2269CT-ND◆	.77	5.02	16.23	20.65	PCC2269TR-ND◆	10,000	17.00/M	ECJ-0EB0J224K
			.47µF	±10%	0.50	PCC2394CT-ND◆	.77	5.02	16.23	20.65	PCC2394TR-ND◆	10,000	17.00/M	ECJ-0EB0J474K
			1µF	±20%	0.50	PCC2257CT-ND◆	1.34	8.76	28.33	36.05	PCC2257TR-ND◆	10,000	29.00/M	ECJ-0EB0J105M
			1µF	±10%	0.50	PCC2393CT-ND◆	1.44	9.39	30.39	38.68	PCC2393TR-ND◆	10,000	31.00/M	ECJ-0EB0J105K
			1µF	±10%	0.50	PCC13493CT-ND◆†	1.99	13.01	42.08	53.55	PCC13493TR-ND◆†	10,000	43.00/M	ECJ-0EBFJ105K
			2.2µF	±20%	0.50	PCC2421CT-ND◆	2.39	15.64	50.60	64.40	PCC2421TR-ND◆	10,000	52.00/M	ECJ-0EB0J225M
			4.7µF	±20%	0.50	PCC2475CT-ND◆ ***NEW!***	2.90	19.43	63.59	98.92	PCC2475TR-ND◆ ***NEW!***	10,000	92.00/M	ECJ-0EB0J475M
	Y5V	50	1000pF	+80%/-20%	0.50	PCC1741CT-ND◆	.26	1.41	5.09	8.88	PCC1741TR-ND◆	10,000	7.00/M	ECJ-0EF1H102Z
			1500pF	+80%/-20%	0.50	PCC1742CT-ND	2.57	18.15	62.70	99.00	PCC1742TR-ND	10,000	83.00/M	ECJ-0EF1H152Z
			2200pF	+80%/-20%	0.50	PCC1743CT-ND	.26	1.41	5.09	8.88	PCC1743TR-ND	10,000	7.00/M	ECJ-0EF1H222Z
			3300pF	+80%/-20%	0.50	PCC1744CT-ND	2.57	18.15	62.70	99.00	PCC1744TR-ND	10,000	83.00/M	ECJ-0EF1H332Z
			4700pF	+80%/-20%	0.50	PCC1745CT-ND◆	.26	1.41	5.09	8.88	PCC1745TR-ND◆	10,000	7.00/M	ECJ-0EF1H472Z
			6800pF	+80%/-20%	0.50	PCC1746CT-ND	2.57	18.15	62.70	99.00	PCC1746TR-ND	10,000	83.00/M	ECJ-0EF1H682Z
			10000pF	+80%/-20%	0.50	PCC1747CT-ND◆	.26	1.41	5.09	8.88	PCC1747TR-ND◆	10,000	7.00/M	ECJ-0EF1H103Z
		25	1000pF	+80%/-20%	0.50	PCC1732CT-ND◆	.26	1.41	5.09	8.88	PCC1732TR-ND◆	10,000	7.00/M	ECJ-0EF1E102Z
			1500pF	+80%/-20%	0.50	PCC1733CT-ND	2.57	18.15	62.70	99.00	PCC1733TR-ND	10,000	83.00/M	ECJ-0EF1E152Z
			2200pF	+80%/-20%	0.50	PCC1734CT-ND◆	.26	1.41	5.09	8.88	PCC1734TR-ND◆	10,000	7.00/M	ECJ-0EF1E222Z
			3300pF	+80%/-20%	0.50	PCC1735CT-ND	2.57	18.15	62.70	99.00	PCC1735TR-ND	10,000	83.00/M	ECJ-0EF1E332Z
			4700pF	+80%/-20%	0.50	PCC1736CT-ND	.26	1.41	5.09	8.88	PCC1736TR-ND	10,000	7.00/M	ECJ-0EF1E472Z
			6800pF	+80%/-20%	0.50	PCC1737CT-ND	2.57	18.15	62.70	99.00	PCC1737TR-ND	10,000	83.00/M	ECJ-0EF1E682Z
			10000pF	+80%/-20%	0.50	PCC1738CT-ND◆	.26	1.41	5.09	8.88	PCC1738TR-ND◆	10,000	7.00/M	ECJ-0EF1E103Z
			15000pF	+80%/-20%	0.50	PCC1739CT-ND	2.54	17.88	61.75	97.50	PCC1739TR-ND	10,000	81.00/M	ECJ-0EF1E153Z
			22000pF	+80%/-20%	0.50	PCC1740CT-ND◆	.26	1.41	5.09	8.88	PCC1740TR-ND◆	10,000	7.00/M	ECJ-0EF1E223Z
		16	15000pF	+80%/-20%	0.50	PCC153FQCT-ND	3.08	21.73	75.05	118.50	PCC153FQTR-ND	10,000	99.00/M	ECJ-0EF1C153Z
			22000pF	+80%/-20%	0.50	PCC223FQCT-ND	.26	1.41	5.09	8.88	PCC223FQTR-ND	10,000	7.00/M	ECJ-0EF1C223Z
			33000pF	+80%/-20%	0.50	PCC333FQCT-ND◆	3.39	23.93	82.65	130.50	PCC333FQTR-ND◆	10,000	109.00/M	ECJ-0EF1C333Z
			47000pF	+80%/-20%	0.50	PCC1729CT-ND◆	.26	1.41	5.09	8.88	PCC1729TR-ND◆	10,000	7.00/M	ECJ-0EF1C473Z
			68000pF	+80%/-20%	0.50	PCC1730CT-ND◆	3.39	23.93	82.65	130.50	PCC1730TR-ND◆	10,000	109.00/M	ECJ-0EF1C683Z
			.1µF	+80%/-20%	0.50	PCC1731CT-ND◆	.26	1.41	5.09	8.88	PCC1731TR-ND◆	10,000	7.00/M	ECJ-0EF1C104Z
		10	.22µF	+80%/-20%	0.50	PCC2272CT-ND◆	.81	5.27	17.05	21.70	PCC2272TR-ND◆	10,000	17.00/M	ECJ-0EF1A224Z
		6.3	1µF	+80%/-20%	0.50	PCC2268CT-ND◆	1.04	6.80	22.00	28.00	PCC2268TR-ND◆	10,000	22.00/M	ECJ-0EF0J105Z
0508	X7R	50	.01µF	±10%	0.85	PCC2187CT-ND◆	2.04	14.55	52.38	87.30	PCC2187TR-ND◆	4,000	76.00/M	ECY-29RH103KV
		25	.1µF	±10%	0.85	PCC2188CT-ND◆	2.04	14.55	52.38	87.30	PCC2188TR-ND◆	4,000	76.00/M	ECY-29RE104KV
	X5R	10	1µF	±10%	0.85	PCC2189CT-ND◆	2.28	16.25	58.50	97.50	PCC2189TR-ND◆	4,000	85.00/M	ECY-29RA105KV

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics *(Continued)*

Panasonic Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812 *(Cont.)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							10	100	500	1,000		Qty.	Pricing	
0603	NPO	100	10pF	±0.5pF	0.80	PCC1941CT-ND◆	.41	2.34	8.64	15.84	PCC1941TR-ND◆	4,000	13.00/M	ECJ-1VC2A100D
			15pF	±5%	0.80	PCC1942CT-ND◆	.41	2.34	8.64	15.84	PCC1942TR-ND◆	4,000	13.00/M	ECJ-1VC2A150J
			22pF	±5%	0.80	PCC1943CT-ND◆	.41	2.34	8.64	15.84	PCC1943TR-ND◆	4,000	13.00/M	ECJ-1VC2A220J
			33pF	±5%	0.80	PCC1944CT-ND◆	.41	2.34	8.64	15.84	PCC1944TR-ND◆	4,000	13.00/M	ECJ-1VC2A330J
			47pF	±5%	0.80	PCC1945CT-ND◆	.41	2.34	8.64	15.84	PCC1945TR-ND◆	4,000	13.00/M	ECJ-1VC2A470J
			68pF	±5%	0.80	PCC1946CT-ND◆	.41	2.34	8.64	15.84	PCC1946TR-ND◆	4,000	13.00/M	ECJ-1VC2A680J
			100pF	±5%	0.80	PCC1947CT-ND◆	.41	2.34	8.64	15.84	PCC1947TR-ND◆	4,000	13.00/M	ECJ-1VC2A101J
		50	.5pF	±0.25pF	0.80	PCC0R5CVCT-ND◆§	.33	1.86	6.63	11.93	PCC0R5CVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H0R5C
			1pF	±0.25pF	0.80	PCC010CVCT-ND◆§	.33	1.86	6.63	11.93	PCC010CVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H010C
			1.5pF	±0.25pF	0.80	PCC1R5CVCT-ND◆§	.33	1.86	6.63	11.93	PCC1R5CVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H1R5C
			2pF	±0.25pF	0.80	PCC020CVCT-ND◆§	.33	1.86	6.63	11.93	PCC020CVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H020C
			3pF	±0.25pF	0.80	PCC030CVCT-ND◆§	.33	1.86	6.63	11.93	PCC030CVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H030C
			4pF	±0.25pF	0.80	PCC040CVCT-ND◆§	.33	1.86	6.63	11.93	PCC040CVTR-ND◆§	4,000	10.07/M	ECJ-1VC1H040C
			5pF	±0.25pF	0.80	PCC050CVCT-ND◆§	.33	1.86	6.63	11.93	PCC050CVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H050C
			6pF	±0.5pF	0.80	PCC060CVCT-ND◆§	.33	1.86	6.63	11.93	PCC060CVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H060D
			7pF	±0.5pF	0.80	PCC070CVCT-ND◆§	.33	1.86	6.63	11.93	PCC070CVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H070D
			8pF	±0.5pF	0.80	PCC080CVCT-ND◆§	.33	1.86	6.63	11.93	PCC080CVTR-ND◆§	4,000	11.00/M	ECJ-1VC1H080D
			9pF	±0.5pF	0.80	PCC090CVCT-ND◆§	.33	1.86	6.63	11.93	PCC090CVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H090D
			10pF	±0.5pF	0.80	PCC100CVCT-ND◆§	.33	1.86	6.63	11.93	PCC100CVTR-ND◆§	4,000	11.00/M	ECJ-1VC1H100D
			12pF	±5%	0.80	PCC120ACVCT-ND◆	.33	1.86	6.63	11.93	PCC120ACVTR-ND◆	4,000	10.00/M	ECJ-1VC1H120J
			15pF	±5%	0.80	PCC150ACVCT-ND◆§	.33	1.86	6.63	11.93	PCC150ACVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H150J
			18pF	±5%	0.80	PCC180ACVCT-ND◆§	.33	1.86	6.63	11.93	PCC180ACVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H180J
			22pF	±5%	0.80	PCC220ACVCT-ND◆§	.33	1.86	6.63	11.93	PCC220ACVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H220J
			27pF	±5%	0.80	PCC270ACVCT-ND◆§	.33	1.86	6.63	11.93	PCC270ACVTR-ND◆§	4,000	10.00/M	ECJ-1VC1H270J
			33pF	±5%	0.80	PCC330ACVCT-ND◆§	.33	1.86	6.63	11.93	PCC330ACVTR-ND◆§	4,000	10.07/M	ECJ-1VC1H330J
			39pF	±5%	0.80	PCC390ACVCT-ND§	.33	1.86	6.63	11.93	PCC390ACVTR-ND§	4,000	10.00/M	ECJ-1VC1H390J
			47pF	±5%	0.80	PCC470ACVCT-ND◆§	.34	1.90	7.00	12.60	PCC470ACVTR-ND◆§	4,000	11.00/M	ECJ-1VC1H470J
			56pF	±5%	0.80	PCC560ACVCT-ND◆§	.34	1.90	7.00	12.60	PCC560ACVTR-ND◆§	4,000	11.00/M	ECJ-1VC1H560J
			68pF	±5%	0.80	PCC680ACVCT-ND◆§	.34	1.90	7.00	12.60	PCC680ACVTR-ND◆§	4,000	11.00/M	ECJ-1VC1H680J
			82pF	±5%	0.80	PCC820ACVCT-ND◆§	.34	1.90	7.00	12.60	PCC820ACVTR-ND◆§	4,000	11.00/M	ECJ-1VC1H820J
			100pF	±5%	0.80	PCC101ACVCT-ND◆§	.36	2.01	7.38	13.28	PCC101ACVTR-ND◆§	4,000	11.00/M	ECJ-1VC1H101J
			120pF	±5%	0.80	PCC121ACVCT-ND◆§	.36	2.01	7.38	13.28	PCC121ACVTR-ND◆§	4,000	11.00/M	ECJ-1VC1H121J
			150pF	±5%	0.80	PCC151ACVCT-ND◆§	.36	2.01	7.38	13.28	PCC151ACVTR-ND◆§	4,000	11.00/M	ECJ-1VC1H151J
			180pF	±5%	0.80	PCC181ACVCT-ND◆§	.36	2.01	7.38	13.28	PCC181ACVTR-ND◆§	4,000	11.00/M	ECJ-1VC1H181J
			220pF	±5%	0.80	PCC221ACVCT-ND◆§	.36	2.01	7.38	13.28	PCC221ACVTR-ND◆§	4,000	11.00/M	ECJ-1VC1H221J
			270pF	±5%	0.80	PCC271ACVCT-ND◆§	.36	2.01	7.38	13.28	PCC271ACVTR-ND◆§	4,000	11.00/M	ECJ-1VC1H271J
			330pF	±5%	0.80	PCC331ACVCT-ND◆§	.37	2.11	7.75	13.64	PCC331ACVTR-ND◆§	4,000	12.00/M	ECJ-1VC1H331J
			390pF	±5%	0.80	PCC391ACVCT-ND◆§	.37	2.11	7.75	13.64	PCC391ACVTR-ND◆§	4,000	12.00/M	ECJ-1VC1H391J
			470pF	±5%	0.80	PCC2147CT-ND◆	.37	2.11	7.75	13.64	PCC2147TR-ND◆	4,000	12.00/M	ECJ-1VC1H471J
			560pF	±5%	0.80	PCC2148CT-ND◆	.47	2.64	9.78	17.85	PCC2148TR-ND◆	4,000	15.00/M	ECJ-1VC1H561J
			680pF	±5%	0.80	PCC2149CT-ND◆	.47	2.64	9.78	17.85	PCC2149TR-ND◆	4,000	15.00/M	ECJ-1VC1H681J
			820pF	±5%	0.80	PCC2150CT-ND◆	.47	2.64	9.78	17.85	PCC2150TR-ND◆	4,000	15.00/M	ECJ-1VC1H821J
			1000pF	±5%	0.80	PCC2151CT-ND◆	.47	2.64	9.78	17.85	PCC2151TR-ND◆	4,000	15.00/M	ECJ-1VC1H102J
	X7R	200	220pF	±10%	0.80	PCC1953CT-ND◆	.47	2.64	9.78	17.85	PCC1953TR-ND◆	4,000	15.00/M	ECJ-1VB2D221K
			330pF	±10%	0.80	PCC1954CT-ND◆	.47	2.64	9.78	17.85	PCC1954TR-ND◆	4,000	15.00/M	ECJ-1VB2D331K
			470pF	±10%	0.80	PCC1955CT-ND◆	.47	2.64	9.78	17.85	PCC1955TR-ND◆	4,000	15.00/M	ECJ-1VB2D471K
			680pF	±10%	0.80	PCC1956CT-ND◆	.47	2.64	9.78	17.85	PCC1956TR-ND◆	4,000	15.00/M	ECJ-1VB2D681K
			1000pF	±10%	0.80	PCC1957CT-ND◆	.47	2.64	9.78	17.85	PCC1957TR-ND◆	4,000	15.00/M	ECJ-1VB2D102K
		100	220pF	±10%	0.80	PCC1948CT-ND◆	.40	2.24	8.16	14.96	PCC1948TR-ND◆	4,000	13.00/M	ECJ-1VB2A221K
			330pF	±10%	0.80	PCC1949CT-ND◆	.40	2.24	8.16	14.96	PCC1949TR-ND◆	4,000	13.00/M	ECJ-1VB2A331K
			470pF	±10%	0.80	PCC1950CT-ND◆	.40	2.24	8.16	14.96	PCC1950TR-ND◆	4,000	13.00/M	ECJ-1VB2A471K
			680pF	±10%	0.80	PCC1951CT-ND◆	.40	2.24	8.16	14.96	PCC1951TR-ND◆	4,000	13.00/M	ECJ-1VB2A681K
			1000pF	±10%	0.80	PCC1952CT-ND◆	.40	2.24	8.16	14.96	PCC1952TR-ND◆	4,000	13.00/M	ECJ-1VB2A102K
		50	1000pF	±10%	0.80	PCC1772CT-ND◆§	.31	1.73	6.24	11.04	PCC1772TR-ND◆§	4,000	9.00/M	ECJ-1VB1H102K
			1200pF	±10%	0.80	PCC1773CT-ND◆§	.31	1.73	6.24	11.04	PCC1773TR-ND◆§	4,000	9.00/M	ECJ-1VB1H122K
			1500pF	±10%	0.80	PCC1774CT-ND◆§	.31	1.73	6.24	11.04	PCC1774TR-ND◆§	4,000	9.00/M	ECJ-1VB1H152K
			1800pF	±10%	0.80	PCC1775CT-ND◆§	.31	1.73	6.24	11.04	PCC1775TR-ND◆§	4,000	9.00/M	ECJ-1VB1H182K
			2200pF	±10%	0.80	PCC1776CT-ND◆§	.31	1.73	6.24	11.04	PCC1776TR-ND◆§	4,000	9.00/M	ECJ-1VB1H222K
			2700pF	±10%	0.80	PCC1777CT-ND◆§	.31	1.73	6.24	11.04	PCC1777TR-ND◆§	4,000	9.00/M	ECJ-1VB1H272K
			3300pF	±10%	0.80	PCC1778CT-ND◆§	.31	1.73	6.24	11.04	PCC1778TR-ND◆§	4,000	9.00/M	ECJ-1VB1H332K
			3900pF	±10%	0.80	PCC1779CT-ND◆§	.31	1.73	6.24	11.04	PCC1779TR-ND◆§	4,000	9.00/M	ECJ-1VB1H392K
			4700pF	±10%	0.80	PCC1780CT-ND◆§	.31	1.73	6.24	11.04	PCC1780TR-ND◆§	4,000	9.00/M	ECJ-1VB1H472K
			5600pF	±10%	0.80	PCC1781CT-ND◆§	.31	1.73	6.24	11.04	PCC1781TR-ND◆§	4,000	9.00/M	ECJ-1VB1H562K
			6800pF	±10%	0.80	PCC1782CT-ND◆§	.31	1.73	6.24	11.04	PCC1782TR-ND◆§	4,000	9.00/M	ECJ-1VB1H682K
			8200pF	±10%	0.80	PCC1783CT-ND◆§	.31	1.73	6.24	11.04	PCC1783TR-ND◆§	4,000	9.00/M	ECJ-1VB1H822K
			10000pF	±10%	0.80	PCC1784CT-ND◆§	.31	1.73	6.24	11.04	PCC1784TR-ND◆§	4,000	9.00/M	ECJ-1VB1H103K
			12000pF	±10%	0.80	PCC1785CT-ND◆§	.34	1.90	7.00	12.60	PCC1785TR-ND◆§	4,000	11.00/M	ECJ-1VB1H123K
			15000pF	±10%	0.80	PCC1786CT-ND◆§	.34	1.90	7.00	12.60	PCC1786TR-ND◆§	4,000	11.00/M	ECJ-1VB1H153K
			.018µF	±10%	0.80	PCC2281CT-ND◆	.34	1.90	7.00	12.60	PCC2281TR-ND◆	4,000	11.00/M	ECJ-1VB1H183K
			.022µF	±10%	0.80	PCC2282CT-ND◆	.34	1.90	7.00	12.60	PCC2282TR-ND◆	4,000	11.00/M	ECJ-1VB1H223K
			.027µF	±10%	0.80	PCC2283CT-ND◆	.52	3.07	11.39	20.79	PCC2283TR-ND◆	4,000	18.00/M	ECJ-1VB1H273K
			.033µF	±10%	0.80	PCC2284CT-ND◆	.52	3.07	11.39	20.79	PCC2284TR-ND◆	4,000	18.00/M	ECJ-1VB1H333K
			.039µF	±10%	0.80	PCC2285CT-ND◆	.52	3.07	11.39	20.79	PCC2285TR-ND◆	4,000	18.00/M	ECJ-1VB1H393K
			.047µF	±10%	0.80	PCC2286CT-ND◆	.52	3.07	11.39	20.79	PCC2286TR-ND◆	4,000	18.00/M	ECJ-1VB1H473K
			.1µF	±10%	0.80	PCC2398CT-ND◆	.72	4.68	15.13	19.25	PCC2398TR-ND◆	4,000	17.00/M	ECJ-1VB1H104K
		25	10000pF	±10%	0.80	PCC1763CT-ND◆	.30	1.66	5.98	10.58	PCC1763TR-ND◆	4,000	9.00/M	ECJ-1VB1E103K
			12000pF	±10%	0.80	PCC1764CT-ND◆	.34	1.90	7.00	12.60	PCC1764TR-ND◆	4,000	11.00/M	ECJ-1VB1E123K
			15000pF	±10%	0.80	PCC1765CT-ND◆	.34	1.90	7.00	12.60	PCC1765TR-ND◆	4,000	11.00/M	ECJ-1VB1E153K
			18000pF	±10%	0.80	PCC1766CT-ND◆§	.34	1.90	7.00	12.60	PCC1766TR-ND◆§	4,000	11.00/M	ECJ-1VB1E183K
			22000pF	±10%	0.80	PCC1767CT-ND◆§	.34	1.90	7.00	12.60	PCC1767TR-ND◆§	4,000	11.00/M	ECJ-1VB1E223K
			27000pF	±10%	0.80	PCC1768CT-ND◆§	.37	2.11	7.75	13.64	PCC1768TR-ND◆§	4,000	12.00/M	ECJ-1VB1E273K
			33000pF	±10%	0.80	PCC1769CT-ND◆§	.37	2.11	7.75	13.64	PCC1769TR-ND◆§	4,000	12.00/M	ECJ-1VB1E333K
			39000pF	±10%	0.80	PCC1770CT-ND◆§	.37	2.11	7.75	13.64	PCC1770TR-ND◆§	4,000	12.00/M	ECJ-1VB1E393K
			47000pF	±10%	0.80	PCC1771CT-ND◆§	.37	2.11	7.75	13.64	PCC1771TR-ND◆§	4,000	12.00/M	ECJ-1VB1E473K
			.056µF	±10%	0.80	PCC2278CT-ND◆	.44	2.50	9.24	16.94	PCC2278TR-ND◆	4,000	14.00/M	ECJ-1VB1E563K
			.068µF	±10%	0.80	PCC2279CT-ND◆	.44	2.50	9.24	16.94	PCC2279TR-ND◆	4,000	14.00/M	ECJ-1VB1E683K
			.082µF	±10%	0.80	PCC2280CT-ND◆	.44	2.50	9.24	16.94	PCC2280TR-ND◆	4,000	14.00/M	ECJ-1VB1E823K
			.1µF	±10%	0.80	PCC2277CT-ND◆	.44	2.50	9.24	16.94	PCC2277TR-ND◆	4,000	14.00/M	ECJ-1VB1E104K
		16	10000pF	±10%	0.80	PCC1750CT-ND◆	.36	2.01	7.38	13.28	PCC1750TR-ND◆	4,000	11.00/M	ECJ-1VB1C103K
			12000pF	±10%	0.80	PCC1751CT-ND◆	.36	2.01	7.38	13.28	PCC1751TR-ND◆	4,000	11.00/M	ECJ-1VB1C123K
			15000pF	±10%	0.80	PCC1752CT-ND◆	.36	2.01	7.38	13.28	PCC1752TR-ND◆	4,000	11.00/M	ECJ-1VB1C153K
			18000pF	±10%	0.80	PCC1753CT-ND◆	.36	2.01	7.38	13.28	PCC1753TR-ND◆	4,000	11.00/M	ECJ-1VB1C183K
			22000pF	±10%	0.80	PCC1754CT-ND◆	.36	2.01	7.38	13.28	PCC1754TR-ND◆	4,000	11.00/M	ECJ-1VB1C223K
			27000pF	±10%	0.80	PCC1755CT-ND◆	.36	2.01	7.38	13.28	PCC1755TR-ND◆	4,000	11.00/M	ECJ-1VB1C273K
			33000pF	±10%	0.80	PCC1756CT-ND◆	.36	2.01	7.38	13.28	PCC1756TR-ND◆	4,000	11.00/M	ECJ-1VB1C333K
			39000pF	±10%	0.80	PCC1757CT-ND◆	.36	2.01	7.38	13.28	PCC1757TR-ND◆	4,000	11.00/M	ECJ-1VB1C393K
			47000pF	±10%	0.80	PCC1758CT-ND◆	.36	2.01	7.38	13.28	PCC1758TR-ND◆	4,000	11.00/M	ECJ-1VB1C473K
			56000pF	±10%	0.80	PCC1759CT-ND◆§	.36	2.01	7.38	13.28	PCC1759TR-ND◆§	4,000	11.00/M	ECJ-1VB1C563K
			68000pF	±10%	0.80	PCC1760CT-ND◆§	.36	2.01	7.38	13.28	PCC1760TR-ND◆§	4,000	11.00/M	ECJ-1VB1C683K
			82000pF	±10%	0.80	PCC1761CT-ND◆§	.36	2.01	7.38	13.28	PCC1761TR-ND◆§	4,000	11.00/M	ECJ-1VB1C823K
			.1µF	±10%	0.80	PCC1762CT-ND◆§	.36	2.01	7.38	13.28	PCC1762TR-ND◆§	4,000	11.00/M	ECJ-1VB1C104K
0603	X5R	25	1µF	±10%	0.80	PCC2422CT-ND◆	2.12	13.86	44.83	57.05	PCC2422TR-ND◆	4,000	51.00/M	ECJ-1VB1E105K
		16	1.0µF	±10%	0.80	PCC2224CT-ND◆	.96	6.25	20.21	25.73	PCC2224TR-ND◆	4,000	23.00/M	ECJ-1VB1C105K
			1.0µF	±20%	0.45	PCC2428CT-ND◆	1.40	9.14	29.56	37.63	PCC2428TR-ND◆	4,000	33.00/M	ECJ-BVB1C105M

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics

(Continued)

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							10	100	500	1,000		Qty.	Pricing	
0603	X5R	10	.12µF	±10%	0.80	PCC1906CT-ND◆§	1.76	12.38	42.75	72.00	PCC1906TR-ND◆§	4,000	59.00/M	ECJ-1VB1A124K
			.15µF	±10%	0.80	PCC1748CT-ND◆§	.36	2.01	7.38	13.28	PCC1748TR-ND◆§	4,000	11.00/M	ECJ-1VB1A154K
			.18µF	±10%	0.80	PCC1907CT-ND◆§	1.79	12.65	43.70	73.60	PCC1907TR-ND◆§	4,000	60.00/M	ECJ-1VB1A184K
			.22µF	±10%	0.80	PCC1749CT-ND◆§	.49	2.82	10.47	19.11	PCC1749TR-ND◆§	4,000	16.00/M	ECJ-1VB1A224K
			.33µF	±10%	0.80	PCC2274CT-ND◆	.49	2.82	10.47	19.11	PCC2274TR-ND◆	4,000	16.00/M	ECJ-1VB1A334K
			.47µF	±10%	0.80	PCC2275CT-ND◆	.49	2.82	10.47	19.11	PCC2275TR-ND◆	4,000	16.00/M	ECJ-1VB1A474K
			.68µF	±10%	0.80	PCC2276CT-ND◆	.67	4.38	14.16	18.03	PCC2276TR-ND◆	4,000	16.00/M	ECJ-1VB1A684K
			1µF	±10%	0.80	PCC2174CT-ND◆	.77	5.02	16.23	20.65	PCC2174TR-ND◆	4,000	18.00/M	ECJ-1VB1A105K
			1µF	±10%	0.45	PCC2427CT-ND◆	1.30	8.50	27.50	35.00	PCC2427TR-ND◆	4,000	31.00/M	ECJ-BVB1A105K
			2.2µF	±20%	0.80	PCC2365CT-ND◆	1.44	9.39	30.39	38.68	PCC2365TR-ND◆	4,000	34.00/M	ECJ-1VB1A225M
			2.2µF	±10%	0.80	PCC2397CT-ND◆	1.44	9.39	30.39	38.68	PCC2397TR-ND◆	4,000	34.00/M	ECJ-1VB1A225K
		6.3	.27µF	±10%	0.80	PCC1908CT-ND◆	2.34	16.50	57.00	96.00	PCC1908TR-ND◆	4,000	78.00/M	ECJ-1VB0J274K
			.33µF	±10%	0.80	PCC1909CT-ND◆	2.34	16.50	57.00	96.00	PCC1909TR-ND◆	4,000	78.00/M	ECJ-1VB0J334K
			.39µF	±10%	0.80	PCC1910CT-ND◆	2.34	16.50	57.00	96.00	PCC1910TR-ND◆	4,000	78.00/M	ECJ-1VB0J394K
			.47µF	±10%	0.80	PCC1911CT-ND◆	.49	2.82	10.47	19.11	PCC1911TR-ND◆	4,000	16.00/M	ECJ-1VB0J474K
			.56µF	±10%	0.80	PCC1912CT-ND◆	2.42	17.05	58.90	99.20	PCC1912TR-ND◆	4,000	81.00/M	ECJ-1VB0J564K
			.68µF	±10%	0.80	PCC1913CT-ND◆	.49	2.82	10.47	19.11	PCC1913TR-ND◆	4,000	16.00/M	ECJ-1VB0J684K
			.82µF	±10%	0.80	PCC1914CT-ND◆	2.50	17.60	60.80	102.40	PCC1914TR-ND◆	4,000	83.00/M	ECJ-1VB0J824K
			1µF	±10%	0.80	PCC1915CT-ND◆§	.67	4.38	14.16	18.03	PCC1915TR-ND◆§	4,000	16.00/M	ECJ-1VB0J105K
			1µF	±10%	0.45	PCC2426CT-ND◆	1.30	8.50	27.50	35.00	PCC2426TR-ND◆	4,000	31.00/M	ECJ-BVB0J105K
			2.2µF	±10%	0.80	PCC2273CT-ND◆	1.24	8.12	26.26	33.43	PCC2273TR-ND◆	4,000	30.00/M	ECJ-1VB0J225K
			2.2µF	±10%	0.80	PCC13494CT-ND◆†	2.28	14.88	48.13	61.25	PCC13494TR-ND◆†	4,000	54.00/M	ECJ-1VBFJ225K
			2.2µF	±20%	0.45	PCC2429CT-ND◆	2.80	18.32	59.26	75.43	PCC2429TR-ND◆	4,000	67.00/M	ECJ-BVB0J225M
			4.7µF	±10%	0.80	PCC2396CT-ND◆	1.91	12.50	40.43	51.45	PCC2396TR-ND◆	4,000	46.00/M	ECJ-1VB0J475K
			4.7µF	±10%	0.80	PCC13495CT-ND◆†	2.29	14.86	45.89	65.55	PCC13495TR-ND◆†	4,000	63.00/M	ECJ-1VBFJ475K
			4.7µF	±20%	0.80	PCC2318CT-ND◆	1.91	12.50	40.43	51.45	PCC2318TR-ND◆	4,000	46.00/M	ECJ-1VB0J475M
			10µF	±20%	0.80	PCC2395CT-ND◆	3.62	24.28	79.47	123.62	PCC2395TR-ND◆	4,000	117.00/M	ECJ-1VB0J106M
		4.0	10µF	±20%	0.80	PCC2367CT-ND◆	3.25	21.49	81.18	128.93	PCC2367TR-ND◆	4,000	124.00/M	ECJ-1VB0G106M
	X5S	25	1.0µF	±20%	0.80	PCC2354CT-ND◆	1.67	11.77	40.66	64.20	PCC2354TR-ND◆	4,000	56.00/M	ECJ-1V41E105M
	Y5V	50	1500pF	+80%/-20%	0.80	PCC1796CT-ND§	.70	4.75	16.08	26.03	—	—	—	ECU-V1H152ZFV
			10000pF	+80%/-20%	0.80	PCC1801CT-ND◆	.32	1.76	6.37	11.27	PCC1801TR-ND◆	4,000	10.00/M	ECJ-1VF1H103Z
			15000pF	+80%/-20%	0.80	PCC1802CT-ND	.69	4.65	15.75	25.50	PCC1802TR-ND	4,000	20.00/M	ECJ-1VF1H153Z
			22000pF	+80%/-20%	0.80	PCC1803CT-ND◆	.32	1.76	6.37	11.27	PCC1803TR-ND◆	4,000	10.00/M	ECJ-1VF1H223Z
			33000pF	+80%/-20%	0.80	PCC1804CT-ND	.87	5.89	19.95	32.30	PCC1804TR-ND	4,000	26.00/M	ECJ-1VF1H333Z
			47000pF	+80%/-20%	0.80	PCC1805CT-ND◆	.32	1.76	6.37	11.27	PCC1805TR-ND◆	4,000	10.00/M	ECJ-1VF1H473Z
			68000pF	+80%/-20%	0.80	PCC2152CT-ND◆	1.15	7.75	26.25	42.50	PCC2152TR-ND◆	4,000	34.00/M	ECJ-1VF1H683Z
			.1µF	+80%/-20%	0.80	PCC2153CT-ND◆	.36	2.01	7.38	13.28	PCC2153TR-ND◆	4,000	11.00/M	ECJ-1VF1H104Z
		25	68000pF	+80%/-20%	0.80	PCC1793CT-ND◆	1.10	7.44	25.20	40.80	PCC1793TR-ND◆	4,000	32.00/M	ECJ-1VF1E683Z
			.1µF	+80%/-20%	0.80	PCC1794CT-ND◆	.34	1.90	7.00	12.60	PCC1794TR-ND◆	4,000	11.00/M	ECJ-1VF1E104Z
		16	.1µF	+80%/-20%	0.80	PCC1788CT-ND◆	.30	1.66	5.98	10.58	PCC1788TR-ND◆	4,000	9.00/M	ECJ-1VF1C104Z
			.15µF	+80%/-20%	0.80	PCC1789CT-ND◆	1.01	6.82	23.10	37.40	PCC1789TR-ND◆	4,000	30.00/M	ECJ-1VF1C154Z
			.22µF	+80%/-20%	0.80	PCC1790CT-ND◆	.38	2.15	7.80	14.30	PCC1790TR-ND◆	4,000	12.00/M	ECJ-1VF1C224Z
			.33µF	+80%/-20%	0.80	PCC1791CT-ND◆	1.38	9.30	31.50	51.00	PCC1791TR-ND◆	4,000	41.00/M	ECJ-1VF1C334Z
			.47µF	+80%/-20%	0.80	PCC1792CT-ND◆	.38	2.15	7.80	14.30	PCC1792TR-ND◆	4,000	12.00/M	ECJ-1VF1C474Z
		10	.68µF	+80%/-20%	0.80	PCC2154CT-ND◆	1.91	13.48	46.55	78.40	PCC2154TR-ND◆	4,000	64.00/M	ECJ-1VF1A684Z
			1µF	+80%/-20%	0.80	PCC1787CT-ND◆	.43	2.41	8.88	16.28	PCC1787TR-ND◆	4,000	14.00/M	ECJ-1VF1A105Z
		6.3	2.2µF	+80%/-20%	0.80	PCC2181CT-ND◆	1.58	10.33	33.41	42.53	PCC2181TR-ND◆	4,000	38.00/M	ECJ-1VF0J225Z
	F	25	1µF	±80%/-20%	0.80	PCC2399CT-ND◆	.41	2.31	8.52	15.62	PCC2399TR-ND◆	4,000	13.00/M	ECJ-1VF1E105Z
		16	1µF	+80%/-20%	0.80	PCC2287CT-ND◆	.48	2.70	10.01	18.27	PCC2287TR-ND◆	4,000	16.00/M	ECJ-1VF1C105Z
		10	2.2µF	+80%/-20%	0.80	PCC2229CT-ND◆	1.71	11.18	36.16	46.03	PCC2229TR-ND◆	4,000	41.00/M	ECJ-1VF1A225Z
0612	X7R	50	15000pF	±10%	0.85	PCC2173CT-ND◆	3.08	22.00	79.18	131.97	PCC2173TR-ND◆	4,000	114.00/M	ECY-39RH153KV
		16	.33µF	±10%	0.85	PCC2185CT-ND◆	7.80	55.72	200.58	334.31	PCC2185TR-ND◆	4,000	290.00/M	ECY-39RC334KV
	X5R	50	.1µF	±10%	0.85	PCC2313CT-ND◆	2.39	16.83	58.14	91.80	PCC2313TR-ND◆	4,000	80.00/M	ECY-39RH104KV
		16	1µF	±10%	0.85	PCC2186CT-ND◆	2.24	16.00	57.60	96.00	PCC2186TR-ND◆	4,000	83.00/M	ECY-39RC105KV
		6.3	10µF	±20%	0.85	PCC2355CT-ND◆	13.32	99.88	355.12	590.39	PCC2355TR-ND◆	4,000	568.00/M	ECY-39RJ106MV
0805	NPO	200	10pF	±0.5pF	0.85	PCC1971CT-ND◆	1.10	7.85	28.26	47.10	PCC1971TR-ND◆	4,000	41.00/M	ECJ-2VC2D100D
			15pF	±5%	0.85	PCC1972CT-ND◆	1.10	7.85	28.26	47.10	PCC1972TR-ND◆	4,000	41.00/M	ECJ-2VC2D150J
			22pF	±5%	0.85	PCC1973CT-ND◆	1.10	7.85	28.26	47.10	PCC1973TR-ND◆	4,000	41.00/M	ECJ-2VC2D220J
			33pF	±5%	0.85	PCC1974CT-ND◆	1.10	7.85	28.26	47.10	PCC1974TR-ND◆	4,000	41.00/M	ECJ-2VC2D330J
			47pF	±5%	0.85	PCC1975CT-ND◆	1.10	7.85	28.26	47.10	PCC1975TR-ND◆	4,000	41.00/M	ECJ-2VC2D470J
			68pF	±5%	1.25	PCC2440CT-ND◆	2.32	15.17	49.09	62.48	PCC2440TR-ND◆	3,000	59.00/M	ECJ-2FC2D680J
			68pF	±5%	1.25	PCC1976CT-ND◆	3.78	27.00	97.20	162.00	PCC1976TR-ND◆	2,000	151.00/M	ECJ-2YC2D680J
			100pF	±5%	1.25	PCC2441CT-ND◆	2.32	15.17	49.09	62.48	PCC2441TR-ND◆	3,000	59.00/M	ECJ-2FC2D101J
			100pF	±5%	1.25	PCC1977CT-ND◆	3.82	27.25	98.10	163.50	PCC1977TR-ND◆	2,000	153.00/M	ECJ-2YC2D101J
			150pF	±5%	1.25	PCC2442CT-ND◆	2.32	15.17	49.09	62.48	PCC2442TR-ND◆	3,000	59.00/M	ECJ-2FC2D151J
			150pF	±5%	1.25	PCC1978CT-ND◆	3.96	28.25	101.70	169.50	PCC1978TR-ND◆	2,000	158.00/M	ECJ-2YC2D151J
			220pF	±5%	1.25	PCC2443CT-ND◆	2.58	16.87	54.59	69.48	PCC2443TR-ND◆	3,000	66.00/M	ECJ-2FC2D221J
			220pF	±5%	1.25	PCC1979CT-ND◆	3.96	28.25	101.70	169.50	PCC1979TR-ND◆	2,000	158.00/M	ECJ-2YC2D221J
			330pF	±5%	1.25	PCC2444CT-ND◆	2.58	16.87	54.59	69.48	PCC2444TR-ND◆	3,000	66.00/M	ECJ-2FC2D331J
			330pF	±5%	1.25	PCC1980CT-ND◆	3.96	28.25	101.70	169.50	PCC1980TR-ND◆	2,000	158.00/M	ECJ-2YC2D331J
		100	10pF	±0.5pF	0.85	PCC1958CT-ND◆	1.09	7.67	26.51	44.64	PCC1958TR-ND◆	4,000	36.00/M	ECJ-2VC2A100D
			15pF	±5%	0.85	PCC1959CT-ND◆	1.09	7.67	26.51	44.64	PCC1959TR-ND◆	4,000	36.00/M	ECJ-2VC2A150J
			22pF	±5%	0.85	PCC1960CT-ND◆	1.09	7.67	26.51	44.64	PCC1960TR-ND◆	4,000	36.00/M	ECJ-2VC2A220J
			33pF	±5%	0.85	PCC1961CT-ND◆	1.09	7.67	26.51	44.64	PCC1961TR-ND◆	4,000	36.00/M	ECJ-2VC2A330J
			47pF	±5%	0.85	PCC1962CT-ND◆	1.09	7.67	26.51	44.64	PCC1962TR-ND◆	4,000	36.00/M	ECJ-2VC2A470J
			68pF	±5%	0.85	PCC1963CT-ND◆	1.22	8.58	29.64	49.92	PCC1963TR-ND◆	4,000	41.00/M	ECJ-2VC2A680J
			100pF	±5%	0.85	PCC1964CT-ND◆	1.22	8.58	29.64	49.92	PCC1964TR-ND◆	4,000	41.00/M	ECJ-2VC2A101J
			150pF	±5%	0.85	PCC1965CT-ND◆	1.22	8.58	29.64	49.92	PCC1965TR-ND◆	4,000	41.00/M	ECJ-2VC2A151J
			220pF	±5%	0.85	PCC1966CT-ND◆	1.22	8.58	29.64	49.92	PCC1966TR-ND◆	4,000	41.00/M	ECJ-2VC2A221J
			330pF	±5%	0.85	PCC1967CT-ND◆	1.22	8.58	29.64	49.92	PCC1967TR-ND◆	4,000	41.00/M	ECJ-2VC2A331J
			470pF	±5%	0.85	PCC1968CT-ND◆	1.22	8.58	29.64	49.92	PCC1968TR-ND◆	4,000	41.00/M	ECJ-2VC2A471J
			680pF	±5%	0.85	PCC1969CT-ND◆	1.09	7.80	28.08	46.80	PCC1969TR-ND◆	4,000	41.00/M	ECJ-2VC2A681J
			1000pF	±5%	0.85	PCC1970CT-ND◆	1.29	9.23	33.21	55.35	PCC1970TR-ND◆	4,000	48.00/M	ECJ-2VC2A102J
		50	.5pF	±0.25pF	0.60	PCC0R5CNCT-ND◆§	.97	6.51	22.05	33.60	PCC0R5CNTR-ND◆§	5,000	28.00/M	ECJ-2VC1H0R5C
			1.0pF	±0.25pF	0.60	PCC010CNCT-ND◆§	.97	6.51	22.05	33.60	PCC010CNTR-ND◆§	5,000	28.00/M	ECJ-2VC1H010C
			1.5pF	±0.25pF	0.60	PCC1R5CNCT-ND◆§	.97	6.51	22.05	33.60	PCC1R5CNTR-ND◆§	5,000	28.00/M	ECJ-2VC1H1R5C
			2.0pF	±0.25pF	0.60	PCC020CNCT-ND◆§	.97	6.51	22.05	33.60	PCC020CNTR-ND◆§	5,000	28.00/M	ECJ-2VC1H020C
			3.0pF	±0.25pF	0.60	PCC030CNCT-ND◆§	.97	6.51	22.05	33.60	PCC030CNTR-ND◆§	5,000	28.00/M	ECJ-2VC1H030C
			4.0pF	±0.25pF	0.60	PCC040CNCT-ND◆§	.97	6.51	22.05	33.60	PCC040CNTR-ND◆§	5,000	28.00/M	ECJ-2VC1H040C
			5.0pF	±0.25pF	0.60	PCC050CNCT-ND◆§	.97	6.51	22.05	33.60	PCC050CNTR-ND◆§	5,000	28.00/M	ECJ-2VC1H050C
			6.0pF	±0.5pF	0.60	PCC060CNCT-ND◆§	.97	6.51	22.05	33.60	PCC060CNTR-ND◆§	5,000	28.00/M	ECJ-2VC1H060D
			7.0pF	±0.5pF	0.60	PCC070CNCT-ND◆§	.97	6.51	22.05	33.60	PCC070CNTR-ND◆§	5,000	28.00/M	ECJ-2VC1H070D
			8.0pF	±0.5pF	0.60	PCC080CNCT-ND◆§	.97	6.51	22.05	33.60	PCC080CNTR-ND◆§	5,000	28.00/M	ECJ-2VC1H080D
			9.0pF	±0.5pF	0.60	PCC090CNCT-ND§	.97	6.51	22.05	33.60	PCC090CNTR-ND§	5,000	28.00/M	ECJ-2VC1H090D
			10pF	±0.5pF	0.60	PCC100CNCT-ND◆§	.97	6.51	22.05	33.60	PCC100CNTR-ND◆§	5,000	28.00/M	ECJ-2VC1H100D
			12pF	±5%	0.60	PCC120CNCT-ND◆	.97	6.51	22.05	33.60	PCC120CNTR-ND◆	5,000	28.00/M	ECJ-2VC1H120J
			15pF	±5%	0.60	PCC150CNCT-ND◆§	.97	6.51	22.05	33.60	PCC150CNTR-ND◆§	5,000	28.00/M	ECJ-2VC1H150J
			18pF	±5%	0.60	PCC180CNCT-ND◆	.97	6.51	22.05	33.60	PCC180CNTR-ND◆	5,000	28.00/M	ECJ-2VC1H180J
			22pF	±5%	0.60	PCC220CNCT-ND◆§	.69	4.65	15.75	24.00	PCC220CNTR-ND◆§	5,000	20.00/M	ECJ-2VC1H220J
			27pF	±5%	0.60	PCC270CGCT-ND◆	.49	3.32	11.24	17.12	PCC270CGTR-ND◆	5,000	14.00/M	ECJ-2VC1H270J
			33pF	±5%	0.60	PCC330CGCT-ND◆§	.49	3.32	11.24	17.12	PCC330CGTR-ND◆§	5,000	14.00/M	ECJ-2VC1H330J
			39pF	±5%	0.60	PCC390CGCT-ND◆	.49	3.32	11.24	17.12	PCC390CGTR-ND◆	5,000	14.00/M	ECJ-2VC1H390J
			47pF	±5%	0.60	PCC470CGCT-ND◆§	.49	3.32	11.24	17.12	PCC470CGTR-ND◆§	5,000	17.00/M	ECJ-2VC1H470J
			56pF	±5%	0.60	PCC560CGCT-ND◆	.49	3.32	11.24	17.12	PCC560CGTR-ND◆	5,000	14.00/M	ECJ-2VC1H560J
			68pF	±5%	0.60	PCC680CGCT-ND◆§	.49	3.32	11.24	17.12	PCC680CGTR-ND◆§	5,000	14.00/M	ECJ-2VC1H680J

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
0805	NPO	50	82pF	±5%	0.60	PCC820CGCT-ND◆	.49	3.32	11.24	17.12	PCC820CGTR-ND◆	5,000	14.00/M	ECJ-2VC1H820J
			100pF	±5%	0.60	PCC101CGCT-ND§	.49	3.32	11.24	17.12	PCC101CGTR-ND§	5,000	14.00/M	ECJ-2VC1H101J
			120pF	±5%	0.60	PCC121CGCT-ND◆§	.49	3.32	11.24	17.12	PCC121CGTR-ND◆§	5,000	14.00/M	ECJ-2VC1H121J
			150pF	±5%	0.60	PCC151CGCT-ND◆§	.49	3.32	11.24	17.12	PCC151CGTR-ND◆§	5,000	14.00/M	ECJ-2VC1H151J
			180pF	±5%	0.60	PCC181CGCT-ND◆§	.49	3.32	11.24	17.12	PCC181CGTR-ND◆§	5,000	14.00/M	ECJ-2VC1H181J
			220pF	±5%	0.60	PCC221CGCT-ND◆§	.49	3.32	11.24	17.12	PCC221CGTR-ND◆§	5,000	14.00/M	ECJ-2VC1H221J
			270pF	±5%	0.60	PCC271CGCT-ND◆§	.49	3.32	11.24	17.12	PCC271CGTR-ND◆§	5,000	14.00/M	ECJ-2VC1H271J
			330pF	±5%	0.60	PCC331CGCT-ND◆§	.49	3.32	11.24	17.12	PCC331CGTR-ND◆§	5,000	14.00/M	ECJ-2VC1H331J
			390pF	±5%	0.60	PCC391CGCT-ND◆§	.49	3.32	11.24	17.12	PCC391CGTR-ND◆§	5,000	14.00/M	ECJ-2VC1H391J
			470pF	±5%	0.60	PCC471CGCT-ND◆§	.49	3.32	11.24	17.12	PCC471CGTR-ND◆§	5,000	14.00/M	ECJ-2VC1H471J
			560pF	±5%	0.60	PCC561CGCT-ND◆§	.49	3.32	11.24	17.12	PCC561CGTR-ND◆§	5,000	14.00/M	ECJ-2VC1H561J
			680pF	±5%	0.60	PCC681CGCT-ND◆§	.49	3.32	11.24	17.12	PCC681CGTR-ND◆§	5,000	14.45/M	ECJ-2VC1H681J
			820pF	±5%	0.60	PCC821CGCT-ND◆§	.76	5.12	17.33	26.40	PCC821CGTR-ND◆§	5,000	22.00/M	ECJ-2VC1H821J
			1000pF	±5%	0.60	PCC102CGCT-ND◆§	.76	5.12	17.33	26.40	PCC102CGTR-ND◆§	5,000	22.00/M	ECJ-2VC1H102J
			1200pF	±5%	0.60	PCC2155CT-ND◆	1.61	10.82	36.65	55.84	PCC2155TR-ND◆	5,000	45.00/M	ECJ-2VC1H122J
			1500pF	±5%	0.60	PCC2156CT-ND◆	1.61	10.82	36.65	55.84	PCC2156TR-ND◆	5,000	45.00/M	ECJ-2VC1H152J
			1800pF	±5%	0.60	PCC2157CT-ND◆	2.14	14.42	48.83	74.40	PCC2157TR-ND◆	5,000	60.00/M	ECJ-2VC1H182J
			2200pF	±5%	0.60	PCC2158CT-ND◆	2.14	14.42	48.83	74.40	PCC2158TR-ND◆	5,000	60.00/M	ECJ-2VC1H222J
			2700pF	±5%	0.60	PCC2159CT-ND◆	2.14	14.42	48.83	74.40	PCC2159TR-ND◆	4,000	60.00/M	ECJ-2VC1H272J
	X7R	200	220pF	±10%	0.85	PCC1993CT-ND◆	.73	5.20	18.72	31.20	PCC1993TR-ND◆	4,000	27.00/M	ECJ-2VB2D221K
			330pF	±10%	0.85	PCC1994CT-ND◆	.73	5.20	18.72	31.20	PCC1994TR-ND◆	4,000	27.00/M	ECJ-2VB2D331K
			470pF	±10%	0.85	PCC1995CT-ND◆	.73	5.20	18.72	31.20	PCC1995TR-ND◆	4,000	27.00/M	ECJ-2VB2D471K
			680pF	±10%	0.85	PCC1996CT-ND◆	.73	5.20	18.72	31.20	PCC1996TR-ND◆	4,000	27.00/M	ECJ-2VB2D681K
			1000pF	±10%	0.85	PCC1997CT-ND◆	.73	5.20	18.72	31.20	PCC1997TR-ND◆	4,000	27.00/M	ECJ-2VB2D102K
			1500pF	±10%	0.85	PCC1998CT-ND◆	.73	5.20	18.72	31.20	PCC1998TR-ND◆	4,000	27.00/M	ECJ-2VB2D152K
			2200pF	±10%	0.85	PCC1999CT-ND◆	.73	5.20	18.72	31.20	PCC1999TR-ND◆	4,000	27.00/M	ECJ-2VB2D222K
			3300pF	±10%	0.85	PCC2000CT-ND◆	.73	5.20	18.72	31.20	PCC2000TR-ND◆	4,000	27.00/M	ECJ-2VB2D332K
			4700pF	±10%	0.85	PCC2001CT-ND◆	.73	5.20	18.72	31.20	PCC2001TR-ND◆	4,000	27.00/M	ECJ-2VB2D472K
			6800pF	±10%	1.25	PCC2445CT-ND◆	1.47	9.61	31.08	39.55	PCC2445TR-ND◆	3,000	37.00/M	ECJ-2FB2D682K
			6800pF	±10%	1.25	PCC2002CT-ND◆	3.43	24.50	88.20	147.00	PCC2002TR-ND◆	2,000	137.00/M	ECJ-2YB2D682K
			10000pF	±10%	1.25	PCC2446CT-ND◆	2.28	14.92	48.26	61.43	PCC2446TR-ND◆	3,000	58.00/M	ECJ-2FB2D103K
			10000pF	±10%	1.25	PCC2003CT-ND◆	6.50	47.71	172.55	294.35	PCC2003TR-ND◆	2,000	274.00/M	ECJ-2YB2D103K
		100	220pF	±10%	0.85	PCC1981CT-ND◆	.66	4.68	16.15	27.20	PCC1981TR-ND◆	4,000	22.00/M	ECJ-2VB2A221K
			330pF	±10%	0.85	PCC1982CT-ND◆	.66	4.68	16.15	27.20	PCC1982TR-ND◆	4,000	22.00/M	ECJ-2VB2A331K
			470pF	±10%	0.85	PCC1983CT-ND◆	.66	4.68	16.15	27.20	PCC1983TR-ND◆	4,000	22.00/M	ECJ-2VB2A471K
			680pF	±10%	0.85	PCC1984CT-ND◆	.66	4.68	16.15	27.20	PCC1984TR-ND◆	4,000	22.00/M	ECJ-2VB2A681K
			1000pF	±10%	0.85	PCC1985CT-ND◆	.66	4.68	16.15	27.20	PCC1985TR-ND◆	4,000	22.00/M	ECJ-2VB2A102K
			1500pF	±10%	0.85	PCC1986CT-ND◆	.66	4.68	16.15	27.20	PCC1986TR-ND◆	4,000	22.00/M	ECJ-2VB2A152K
			2200pF	±10%	0.85	PCC1987CT-ND	.66	4.68	16.15	27.20	PCC1987TR-ND	4,000	22.00/M	ECJ-2VB2A222K
			3300pF	±10%	0.85	PCC1988CT-ND◆	.66	4.68	16.15	27.20	PCC1988TR-ND◆	4,000	22.00/M	ECJ-2VB2A332K
			4700pF	±10%	0.85	PCC1989CT-ND◆	.76	5.39	18.62	31.36	PCC1989TR-ND◆	4,000	25.00/M	ECJ-2VB2A472K
			6800pF	±10%	0.85	PCC1990CT-ND◆	.76	5.39	18.62	31.36	PCC1990TR-ND◆	4,000	25.00/M	ECJ-2VB2A682K
			10000pF	±10%	0.85	PCC1991CT-ND◆	.94	6.73	24.21	40.35	PCC1991TR-ND◆	4,000	35.00/M	ECJ-2VB2A103K
			15000pF	±10%	1.25	PCC2447CT-ND◆	2.09	13.69	44.28	56.35	PCC2447TR-ND◆	3,000	53.00/M	ECJ-2FB2A153K
			15000pF	±10%	1.25	PCC1992CT-ND◆	4.27	30.50	109.80	183.00	PCC1992TR-ND◆	2,000	171.00/M	ECJ-2YB2A153K
		50	1000pF	±10%	0.60	PCC102BNCT-ND◆§	.43	2.44	9.00	16.50	PCC102BNTR-ND◆§	5,000	14.00/M	ECJ-2VB1H102K
			1200pF	±10%	0.60	PCC122BNCT-ND◆§	.54	3.66	12.39	18.88	PCC122BNTR-ND◆§	5,000	16.00/M	ECJ-2VB1H122K
			1500pF	±10%	0.60	PCC152BNCT-ND◆§	.54	3.66	12.39	18.88	PCC152BNTR-ND◆§	5,000	16.00/M	ECJ-2VB1H152K
			1800pF	±10%	0.60	PCC182BNCT-ND◆§	.54	3.66	12.39	18.88	PCC182BNTR-ND◆§	5,000	16.00/M	ECJ-2VB1H182K
			2200pF	±10%	0.60	PCC222BNCT-ND◆§	.37	2.48	8.40	12.80	PCC222BNTR-ND◆§	5,000	11.00/M	ECJ-2VB1H222K
			2700pF	±10%	0.60	PCC272BNCT-ND◆§	.54	3.66	12.39	18.88	PCC272BNTR-ND◆§	5,000	16.00/M	ECJ-2VB1H272K
			3300pF	±10%	0.60	PCC332BNCT-ND◆§	.54	3.66	12.39	18.88	PCC332BNTR-ND◆§	5,000	16.00/M	ECJ-2VB1H332K
			3900pF	±10%	0.60	PCC392BNCT-ND◆§	.54	3.66	12.39	18.88	PCC392BNTR-ND◆§	5,000	16.00/M	ECJ-2VB1H392K
			4700pF	±10%	0.60	PCC472BNCT-ND◆§	.37	2.48	8.40	12.80	PCC472BNTR-ND◆§	5,000	11.00/M	ECJ-2VB1H472K
			5600pF	±10%	0.60	PCC562BNCT-ND◆§	.54	3.66	12.39	18.88	PCC562BNTR-ND◆§	5,000	16.00/M	ECJ-2VB1H562K
			6800pF	±10%	0.60	PCC682BNCT-ND◆§	.54	3.66	12.39	18.88	PCC682BNTR-ND◆§	5,000	16.00/M	ECJ-2VB1H682K
			8200pF	±10%	0.60	PCC822BNCT-ND◆§	.54	3.66	12.39	18.88	PCC822BNTR-ND◆§	5,000	16.00/M	ECJ-2VB1H822K
			10000pF	±10%	0.60	PCC103BNCT-ND◆§	.41	2.28	8.28	15.18	PCC103BNTR-ND◆§	5,000	13.00/M	ECJ-2VB1H103K
			12000pF	±10%	0.60	PCC123BGCT-ND◆§	.54	3.66	12.39	18.88	PCC123BGTR-ND◆§	5,000	16.00/M	ECJ-2VB1H123K
			15000pF	±10%	0.60	PCC153BGCT-ND◆§	.54	3.66	12.39	18.88	PCC153BGTR-ND◆§	5,000	16.00/M	ECJ-2VB1H153K
			18000pF	±10%	0.60	PCC183BGCT-ND◆§	.54	3.66	12.39	18.88	PCC183BGTR-ND◆§	5,000	16.00/M	ECJ-2VB1H183K
			22000pF	±10%	0.60	PCC223BGCT-ND◆§	.37	2.48	8.40	12.80	PCC223BGTR-ND◆§	5,000	11.00/M	ECJ-2VB1H223K
			27000pF	±10%	0.85	PCC1833CT-ND◆§	.43	2.91	9.87	15.98	PCC1833TR-ND◆§	4,000	13.00/M	ECJ-2VB1H273K
			33000pF	±10%	0.85	PCC1834CT-ND◆§	.59	3.97	13.44	21.76	PCC1834TR-ND◆§	4,000	17.00/M	ECJ-2VB1H333K
			39000pF	±10%	0.85	PCC1835CT-ND◆§	1.00	6.73	22.79	36.89	PCC1835TR-ND◆§	4,000	29.00/M	ECJ-2VB1H393K
			47000pF	±10%	1.25	PCC2448CT-ND◆	1.41	9.22	29.84	37.98	PCC2448TR-ND◆	3,000	36.00/M	ECJ-2FB1H473K
			47000pF	±10%	1.25	PCC1836CT-ND◆§	1.61	10.85	36.75	59.50	PCC1836TR-ND◆§	2,000	56.00/M	ECJ-2YB1H473K
			56000pF	±10%	1.25	PCC2449CT-ND◆	1.53	10.03	32.45	41.30	PCC2449TR-ND◆	3,000	39.00/M	ECJ-2FB1H563K
			56000pF	±10%	1.25	PCC1837CT-ND◆§	1.61	10.85	36.75	59.50	PCC1837TR-ND◆§	2,000	56.00/M	ECJ-2YB1H563K
			68000pF	±10%	1.25	PCC2450CT-ND◆	1.53	10.03	32.45	41.30	PCC2450TR-ND◆	3,000	39.00/M	ECJ-2FB1H683K
			68000pF	±10%	1.25	PCC1838CT-ND◆§	1.61	10.85	36.75	59.50	PCC1838TR-ND◆§	2,000	56.00/M	ECJ-2YB1H683K
			82000pF	±10%	1.25	PCC2451CT-ND◆	1.53	10.03	32.45	41.30	PCC2451TR-ND◆	3,000	39.00/M	ECJ-2FB1H823K
			82000pF	±10%	1.25	PCC1839CT-ND◆§	1.61	10.85	36.75	59.50	PCC1839TR-ND◆§	2,000	56.00/M	ECJ-2YB1H823K
			.1µF	±10%	1.25	PCC2452CT-ND◆	.99	6.46	20.90	26.60	PCC2452TR-ND◆	3,000	25.00/M	ECJ-2FB1H104K
			.1µF	±10%	1.25	PCC1840CT-ND◆§	1.61	10.85	36.75	59.50	PCC1840TR-ND◆§	2,000	56.00/M	ECJ-2YB1H104K
		25	39000pF	±10%	0.85	PCC1819CT-ND◆	1.10	7.44	25.20	40.80	PCC1819TR-ND◆	4,000	32.00/M	ECJ-2VB1E393K
			47000pF	±10%	0.85	PCC1820CT-ND◆	.62	4.19	14.18	22.95	PCC1820TR-ND◆	4,000	18.00/M	ECJ-2VB1E473K
			56000pF	±10%	0.85	PCC1825CT-ND◆	.62	4.19	14.18	22.95	PCC1825TR-ND◆	4,000	18.00/M	ECJ-2VB1E563K
			68000pF	±10%	0.85	PCC1826CT-ND◆	.62	4.19	14.18	22.95	PCC1826TR-ND◆	4,000	18.00/M	ECJ-2VB1E683K
			82000pF	±10%	0.85	PCC1827CT-ND	.62	4.19	14.18	22.95	PCC1827TR-ND	4,000	18.00/M	ECJ-2VB1E823K
			.1µF	±10%	0.85	PCC1828CT-ND◆	.62	4.19	14.18	22.95	PCC1828TR-ND◆	4,000	18.00/M	ECJ-2VB1E104K
			.12µF	±10%	1.25	PCC1829CT-ND◆§	1.44	10.18	35.15	59.20	PCC1829TR-ND◆§	2,000	56.00/M	ECJ-2YB1E124K
			.15µF	±10%	1.25	PCC2453CT-ND◆	1.41	9.22	29.84	37.98	PCC2453TR-ND◆	3,000	36.00/M	ECJ-2FB1E154K
			.15µF	±10%	1.25	PCC1830CT-ND◆§	1.48	10.45	36.10	60.80	PCC1830TR-ND◆§	2,000	57.00/M	ECJ-2YB1E154K
			.18µF	±10%	1.25	PCC1831CT-ND◆§	1.52	10.73	37.05	62.40	PCC1831TR-ND◆§	2,000	59.00/M	ECJ-2YB1E184K
			.22µF	±10%	1.25	PCC2454CT-ND◆	1.41	9.22	29.84	37.98	PCC2454TR-ND◆	3,000	36.00/M	ECJ-2FB1E224K
			.22µF	±10%	1.25	PCC1832CT-ND◆§	1.91	13.48	46.55	78.40	PCC1832TR-ND◆§	2,000	74.00/M	ECJ-2YB1E224K
		16	47000pF	±10%	0.85	PCC1808CT-ND◆	1.20	8.06	27.30	44.20	PCC1808TR-ND◆	4,000	35.00/M	ECJ-2VB1C473K
			56000pF	±10%	0.85	PCC1809CT-ND◆	1.33	8.99	30.45	49.30	PCC1809TR-ND◆	4,000	39.00/M	ECJ-2VB1C563K
			68000pF	±10%	0.85	PCC1810CT-ND◆	1.25	8.80	30.40	51.20	PCC1810TR-ND◆	4,000	42.00/M	ECJ-2VB1C683K
			82000pF	±10%	0.85	PCC1811CT-ND◆	1.25	8.80	30.40	51.20	PCC1811TR-ND◆	4,000	42.00/M	ECJ-2VB1C823K
			.1µF	±10%	0.85	PCC1812CT-ND◆	.89	5.82	18.84	23.98	PCC1812TR-ND◆	4,000	21.00/M	ECJ-2VB1C104K
			.12µF	±10%	0.85	PCC1813CT-ND◆	1.44	10.18	35.15	59.20	PCC1813TR-ND◆	4,000	48.00/M	ECJ-2VB1C124K
			.15µF	±10%	0.85	PCC1814CT-ND◆	.74	5.20	17.96	30.24	PCC1814TR-ND◆	4,000	25.00/M	ECJ-2VB1C154K
			.18µF	±10%	0.85	PCC1815CT-ND◆	2.07	14.75	53.10	88.50	PCC1815TR-ND◆	4,000	77.00/M	ECJ-2VB1C184K
			.22µF	±10%	0.85	PCC1816CT-ND◆	.66	4.73	17.01	28.35	PCC1816TR-ND◆	4,000	25.00/M	ECJ-2VB1C224K
			.27µF	±10%	1.25	PCC1916CT-ND◆	2.38	17.00	61.20	102.00	PCC1916TR-ND◆	2,000	95.00/M	ECJ-2YB1C274K
			.33µF	±10%	1.25	PCC2455CT-ND◆	1.23	8.03	25.99	33.08	PCC2455TR-ND◆	3,000	31.00/M	ECJ-2FB1C334K
			.33µF	±10%	1.25	PCC1817CT-ND◆	2.45	17.50	63.00	105.00	PCC1817TR-ND◆	2,000	98.00/M	ECJ-2YB1C334K
			.39µF	±10%	1.25	PCC1917CT-ND◆	2.38	17.00	61.20	102.00	PCC1917TR-ND◆	2,000	95.00/M	ECJ-2YB1C394K
			.47µF	±10%	1.25	PCC2456CT-ND◆	1.81	11.82	38.23	48.65	PCC2456TR-ND◆	3,000	46.00/M	ECJ-2FB1C474K
			.47µF	±10%	1.25	PCC1818CT-ND◆§	2.45	17.50	63.00	105.00	PCC1818TR-ND◆§	2,000	98.00/M	ECJ-2YB1C474K
	X5R	25	1µF	±10%	1.25	PCC2319CT-ND◆	1.29	9.23	33.21	51.66	PCC2319TR-ND◆	3,000	50.00/M	ECJ-2FB1E105K
			2.2µF	±10%	1.25	PCC2320CT-ND◆	1.65	11.66	40.28	63.60	PCC2320TR-ND◆	3,000	57.00/M	ECJ-2FB1E225K
			4.7µF	±20%	1.25	PCC2321CT-ND◆	2.29	16.35	58.86	91.56	PCC2321TR-ND◆	3,000	88.00/M	ECJ-2FB1E475M

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics *(Continued)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							10	100	500	1,000		Qty.	Pricing	
0805	X5R	16	.68µF	±10%	1.25	PCC2290CT-ND◆	1.28	8.62	29.19	44.48	PCC2290TR-ND◆	3,000	38.00/M	ECJ-2FB1C684K
			1µF	±10%	0.85	PCC2314CT-ND◆	1.43	9.64	32.66	49.76	PCC2314TR-ND◆	4,000	42.00/M	ECJ-GVB1C105K
			1µF	±10%	1.25	PCC2249CT-ND◆	1.28	8.62	29.19	44.48	PCC2249TR-ND◆	3,000	38.00/M	ECJ-2FB1C105K
			2.2µF	±20%	0.85	PCC2408CT-ND◆	2.68	17.34	53.55	76.50	PCC2408TR-ND◆	4,000	74.00/M	ECJ-GVB1C225M
			2.2µF	±10%	1.25	PCC2322CT-ND◆	1.61	11.33	39.14	61.80	PCC2322TR-ND◆	3,000	56.00/M	ECJ-2FB1C225K
			4.7µF	±10%	1.25	PCC2323CT-ND◆	2.25	16.05	57.78	89.88	PCC2323TR-ND◆	3,000	87.00/M	ECJ-2FB1C475K
			4.7µF	±10%	0.85	PCC2430CT-ND◆	3.07	19.89	61.43	87.75	PCC2430TR-ND◆	4,000	91.00/M	ECJ-GVB1C475M
		10	.56µF	±10%	1.25	PCC1918CT-ND◆	3.99	28.50	102.60	171.00	PCC1918TR-ND◆	2,000	160.00/M	ECJ-2YB1A564K
			.68µF	±10%	1.25	PCC1806CT-ND◆	4.10	29.25	105.30	175.50	PCC1806TR-ND◆	2,000	164.00/M	ECJ-2YB1A684K
			.68µF	±10%	1.25	PCC2289CT-ND◆	1.15	7.75	26.25	40.00	PCC2289TR-ND◆	3,000	34.00/M	ECJ-2FB1A684K
			.82µF	±10%	1.25	PCC1919CT-ND◆	4.03	29.61	107.10	182.70	PCC1919TR-ND◆	2,000	170.00/M	ECJ-2YB1A824K
			1µF	±10%	1.25	PCC2457CT-ND◆	1.63	10.63	34.38	43.75	PCC2457TR-ND◆	3,000	41.00/M	ECJ-2FB1A105K
			1µF	±10%	1.25	PCC1807CT-ND◆	4.13	30.32	109.65	187.05	PCC1807TR-ND◆	2,000	174.00/M	ECJ-2YB1A105K
			2.2µF	±20%	1.25	PCC2175CT-ND◆	2.40	17.13	61.65	102.75	PCC2175TR-ND◆	3,000	89.00/M	ECJ-2FB1A225M
			2.2µF	±10%	1.25	PCC2324CT-ND◆	2.40	17.13	61.65	95.90	PCC2324TR-ND◆	3,000	92.00/M	ECJ-2FB1A225K
			3.3µF	±10%	1.25	PCC2288CT-ND◆	2.40	17.13	61.65	95.90	PCC2288TR-ND◆	3,000	92.00/M	ECJ-2FB1A335K
			4.7µF	±20%	0.85	PCC2407CT-ND◆	3.76	25.25	82.62	128.52	PCC2407TR-ND◆	4,000	122.00/M	ECJ-GVB1A475M
			4.7µF	±10%	1.25	PCC2325CT-ND◆	4.15	29.68	106.83	166.18	PCC2325TR-ND◆	3,000	160.00/M	ECJ-2FB1A475K
			10µF	±10%	1.25	PCC2403CT-ND◆	5.00	33.10	125.04	198.59	PCC2403TR-ND◆	3,000	199.00/M	ECJ-2FB1A106K
			10µF	±20%	0.85	PCC2431CT-ND◆	5.36	35.97	117.72	183.12	PCC2431TR-ND◆	4,000	203.00/M	ECJ-GVB1A106M
		6.3	1.5µF	±10%	1.25	PCC1921CT-ND◆	4.35	31.96	115.60	197.20	PCC1921TR-ND◆	2,000	184.00/M	ECJ-2YB0J155K
			2.2µF	±10%	0.85	PCC2310CT-ND◆	1.79	12.60	43.51	68.70	PCC2310TR-ND◆	4,000	60.00/M	ECJ-GVB0J225K
			2.2µF	±10%	1.25	PCC2458CT-ND◆	2.39	15.47	47.78	79.63	PCC2458TR-ND◆	3,000	73.00/M	ECJ-2FB0J225K
			2.2µF	±10%	1.25	PCC1923CT-ND◆	4.74	34.78	125.80	214.60	PCC1923TR-ND◆	2,000	200.00/M	ECJ-2YB0J225K
			3.3µF	±10%	1.25	PCC2459CT-ND◆	3.28	21.22	65.52	109.20	PCC2459TR-ND◆	3,000	100.00/M	ECJ-2FB0J335K
			3.3µF	±10%	1.25	PCC1925CT-ND◆	5.12	37.60	136.00	232.00	PCC1925TR-ND◆	2,000	216.00/M	ECJ-2YB0J335K
			4.7µF	±20%	0.85	PCC2315CT-ND◆	3.18	22.73	81.81	127.26	PCC2315TR-ND◆	4,000	118.00/M	ECJ-GVB0J475M
			4.7µF	±20%	1.25	PCC2176CT-ND◆	2.77	19.78	71.19	118.65	PCC2176TR-ND◆	3,000	103.00/M	ECJ-2FB0J475M
			4.7µF	±10%	1.25	PCC2402CT-ND◆	3.53	23.65	77.40	120.40	PCC2402TR-ND◆	3,000	125.00/M	ECJ-2FB0J475K
			4.7µF	±10%	0.85	PCC2406CT-ND◆	3.53	23.65	77.40	120.40	PCC2406TR-ND◆	4,000	114.00/M	ECJ-GVB0J475K
			10µF	±20%	0.85	PCC2405CT-ND◆	4.46	29.50	111.44	176.99	PCC2405TR-ND◆	4,000	170.00/M	ECJ-GVB0J106M
			10µF	±20%	0.85	PCC2327CT-ND◆‡	3.89	27.75	99.90	155.40	PCC2327TR-ND◆‡	4,000	144.00/M	ECJ-CV50J106M
			10µF	±20%	1.25	PCC2225CT-ND◆	3.24	21.01	64.89	92.70	PCC2225TR-ND◆	3,000	90.00/M	ECJ-2FB0J106M
			10µF	±10%	1.25	PCC2400CT-ND◆	3.02	20.24	66.24	103.04	PCC2400TR-ND◆	3,000	103.00/M	ECJ-2FB0J106K
			22µF	±20%	1.25	PCC2401CT-ND◆	6.50	43.04	162.61	258.26	PCC2401TR-ND◆	3,000	258.00/M	ECJ-2FB0J226M
	Y5V	50	10000pF	+80%/-20%	0.60	PCC1858CT-ND◆	.44	2.95	9.98	15.20	PCC1858TR-ND◆	5,000	13.00/M	ECJ-2VF1H103Z
			15000pF	+80%/-20%	0.60	PCC1859CT-ND◆	.60	4.03	13.65	20.80	PCC1859TR-ND◆	5,000	18.00/M	ECJ-2VF1H153Z
			22000pF	+80%/-20%	0.60	PCC1860CT-ND◆	.51	3.41	11.55	17.60	PCC1860TR-ND◆	5,000	15.00/M	ECJ-2VF1H223Z
			33000pF	+80%/-20%	0.60	PCC1861CT-ND◆	.69	4.65	15.75	24.00	PCC1861TR-ND◆	5,000	20.00/M	ECJ-2VF1H333Z
			47000pF	+80%/-20%	0.60	PCC1862CT-ND◆	.58	3.94	13.34	20.32	PCC1862TR-ND◆	5,000	17.00/M	ECJ-2VF1H473Z
			68000pF	+80%/-20%	0.60	PCC1863CT-ND	.87	5.89	19.95	30.40	PCC1863TR-ND	5,000	26.00/M	ECJ-2VF1H683Z
			.1µF	+80%/-20%	0.85	PCC1864CT-ND	1.01	6.63	21.45	27.30	PCC1864TR-ND	4,000	24.00/M	ECJ-2VF1H104Z
			.15µF	+80%/-20%	0.85	PCC1865CT-ND◆	1.47	9.92	33.60	54.40	PCC1865TR-ND◆	4,000	43.00/M	ECJ-2VF1H154Z
			.22µF	+80%/-20%	0.85	PCC1866CT-ND◆	1.00	6.73	22.79	36.89	PCC1866TR-ND◆	4,000	29.00/M	ECJ-2VF1H224Z
		25	68000pF	+80%/-20%	0.60	PCC1852CT-ND	.87	5.89	19.95	30.40	PCC1852TR-ND	5,000	26.00/M	ECJ-2VF1E683Z
			.1µF	+80%/-20%	0.60	PCC1853CT-ND◆	.52	3.50	11.87	18.08	PCC1853TR-ND◆	5,000	15.00/M	ECJ-2VF1E104Z
			.15µF	+80%/-20%	0.60	PCC1854CT-ND	1.20	8.06	27.30	41.60	PCC1854TR-ND	5,000	35.00/M	ECJ-2VF1E154Z
			.22µF	+80%/-20%	0.85	PCC1855CT-ND◆	.61	4.09	13.86	22.44	PCC1855TR-ND◆	4,000	18.00/M	ECJ-2VF1E224Z
			.33µF	+80%/-20%	1.25	PCC1856CT-ND◆	2.30	16.23	56.05	94.40	PCC1856TR-ND◆	2,000	89.00/M	ECJ-2YF1E334Z
			.47µF	+80%/-20%	1.25	PCC2460CT-ND◆	1.23	8.03	25.99	33.08	PCC2460TR-ND◆	3,000	31.00/M	ECJ-2FF1E474Z
			.47µF	+80%/-20%	1.25	PCC1857CT-ND◆	2.38	16.78	57.95	97.60	PCC1857TR-ND◆	2,000	92.00/M	ECJ-2YF1E474Z
		16	.1µF	+80%/-20%	0.60	PCC1843CT-ND◆	.58	3.88	13.13	20.00	PCC1843TR-ND◆	5,000	17.00/M	ECJ-2VF1C104Z
			.15µF	+80%/-20%	0.60	PCC1844CT-ND	1.20	8.06	27.30	41.60	PCC1844TR-ND	5,000	35.00/M	ECJ-2VF1C154Z
			.22µF	+80%/-20%	0.60	PCC1845CT-ND◆	.58	3.88	13.13	20.00	PCC1845TR-ND◆	5,000	17.00/M	ECJ-2VF1C224Z
			.33µF	+80%/-20%	0.85	PCC1846CT-ND◆	1.61	10.85	36.75	59.50	PCC1846TR-ND◆	4,000	47.00/M	ECJ-2VF1C334Z
			.47µF	+80%/-20%	0.85	PCC1847CT-ND◆	.56	3.96	13.68	23.04	PCC1847TR-ND◆	4,000	19.00/M	ECJ-2VF1C474Z
			.68µF	+80%/-20%	0.85	PCC1848CT-ND◆	1.95	13.75	47.50	80.00	PCC1848TR-ND◆	4,000	65.00/M	ECJ-2VF1C684Z
			1µF	+80%/-20%	0.85	PCC1849CT-ND◆	.72	5.13	18.45	30.75	PCC1849TR-ND◆	4,000	27.00/M	ECJ-2VF1C105Z
			1.5µF	+80%/-20%	1.25	PCC1850CT-ND◆	3.43	24.50	88.20	147.00	PCC1850TR-ND◆	2,000	137.00/M	ECJ-2YF1C155Z
			2.2µF	+80%/-20%	1.25	PCC2461CT-ND◆	2.09	13.64	44.14	56.18	PCC2461TR-ND◆	3,000	53.00/M	ECJ-2FF1C225Z
			2.2µF	+80%/-20%	1.25	PCC1851CT-ND◆	3.85	27.50	99.00	165.00	PCC1851TR-ND◆	2,000	154.00/M	ECJ-2YF1C225Z
			2.2µF	+80%/-20%	0.85	PCC2410CT-ND◆	1.80	11.77	38.09	48.48	PCC2410TR-ND◆	4,000	43.00/M	ECJ-GVF1C225Z
			4.7µF	+80%/-20%	0.85	PCC2411CT-ND◆	2.37	15.37	47.46	67.80	PCC2411TR-ND◆	4,000	66.00/M	ECJ-GVF1C475Z
		10	4.7µF	+80%/-20%	1.25	PCC2462CT-ND◆	2.48	16.05	49.56	82.60	PCC2462TR-ND◆	3,000	76.00/M	ECJ-2FF1A475Z
			4.7µF	+80%/-20%	1.25	PCC1842CT-ND◆	4.42	32.43	117.30	200.10	PCC1842TR-ND◆	2,000	186.00/M	ECJ-2YF1A475Z
			4.7µF	+80%/-20%	0.85	PCC2409CT-ND◆	2.55	16.70	54.04	68.78	PCC2409TR-ND◆	4,000	61.00/M	ECJ-GVF1A475Z
		6.3	10µF	+80%/-20%	1.25	PCC2182CT-ND◆	2.01	14.33	51.57	85.95	PCC2182TR-ND◆	3,000	74.00/M	ECJ-2FF0J106Z
	F	50	1µF	+80%/20%	1.25	PCC2404CT-ND◆	1.70	11.14	36.03	52.40	PCC2404TR-ND◆	3,000	46.00/M	ECJ-2FF1H105Z
		25	1.0µF	+80%/-20%	1.25	PCC2230CT-ND◆	.94	6.63	22.90	36.15	PCC2230TR-ND◆	3,000	32.00/M	ECJ-2FF1E105Z
			2.2µF	+80%/-20%	1.25	PCC2231CT-ND◆	1.02	7.30	26.28	40.88	PCC2231TR-ND◆	3,000	39.00/M	ECJ-2FF1E225Z
		16	4.7µF	+80%/-20%	1.25	PCC2232CT-ND◆	1.82	13.03	46.89	72.94	PCC2232TR-ND◆	3,000	69.00/M	ECJ-2FF1C475Z
		10	10µF	+80%/-20%	1.25	PCC2233CT-ND◆	1.94	14.26	51.60	81.95	PCC2233TR-ND◆	3,000	81.00/M	ECJ-2FF1A106Z
1206	NPO	200	470pF	±5%	1.15	PCC2463CT-ND◆	5.77	38.18	144.25	263.04	PCC2463TR-ND◆	3,000	246.00/M	ECJ-3FC2D471J
			470pF	±5%	1.15	PCC2007CT-ND◆§	5.66	41.60	150.45	256.65	PCC2007TR-ND◆§	2,000	239.00/M	ECJ-3YC2D471J
			680pF	±5%	1.15	PCC2464CT-ND◆	6.57	43.49	164.31	299.62	PCC2464TR-ND◆	3,000	280.00/M	ECJ-3FC2D681J
			680pF	±5%	1.15	PCC2008CT-ND◆§	7.07	51.94	187.85	320.45	PCC2008TR-ND◆§	2,000	298.00/M	ECJ-3YC2D681J
			1000pF	±5%	1.15	PCC2465CT-ND◆	6.57	43.49	164.31	299.62	PCC2465TR-ND◆	3,000	280.00/M	ECJ-3FC2D102J
			1000pF	±5%	1.15	PCC2009CT-ND◆§	8.22	60.40	218.45	372.65	PCC2009TR-ND◆§	2,000	347.00/M	ECJ-3YC2D102J
		100	1500pF	±5%	0.85	PCC2004CT-ND◆§	4.44	32.62	117.98	201.26	PCC2004TR-ND◆§	4,000	180.00/M	ECJ-3VC2A152J
			2200pF	±5%	0.85	PCC2005CT-ND◆§	4.44	32.62	117.98	201.26	PCC2005TR-ND◆§	4,000	180.00/M	ECJ-3VC2A222J
			3300pF	±5%	0.85	PCC2006CT-ND◆§	4.44	32.62	117.98	201.26	PCC2006TR-ND◆§	4,000	180.00/M	ECJ-3VC2A332J
		50	.5pF	±0.25pF	0.60	PCC0R5CCT-ND§	1.11	7.51	25.42	38.74	PCC0R5CTR-ND§	5,000	33.00/M	ECU-V1H0R5CCM
			56pF	±5%	0.60	PCC560CCT-ND§	1.35	9.13	30.91	47.10	PCC560CTR-ND§	5,000	40.00/M	ECU-V1H560JCM
			2700pF	±5%	0.60	PCC2160CT-ND◆§	14.04	99.00	342.00	540.00	PCC2160TR-ND◆§	5,000	468.00/M	ECJ-3VC1H272J
			3300pF	±5%	0.60	PCC2161CT-ND◆§	5.23	36.88	127.40	201.15	PCC2161TR-ND◆§	5,000	174.00/M	ECJ-3VC1H332J
			3900pF	±5%	0.60	PCC2162CT-ND◆§	5.23	36.88	127.40	201.15	PCC2162TR-ND◆§	5,000	174.00/M	ECJ-3VC1H392J
			4700pF	±5%	0.60	PCC2163CT-ND◆§	5.23	36.88	127.40	201.15	PCC2163TR-ND◆§	5,000	174.00/M	ECJ-3VC1H472J
			5600pF	±5%	0.85	PCC2164CT-ND◆§	9.54	67.27	232.37	366.90	PCC2164TR-ND◆§	4,000	318.00/M	ECJ-3VC1H562J
			6800pF	±5%	0.85	PCC2165CT-ND◆§	10.16	71.67	247.57	390.90	PCC2165TR-ND◆§	4,000	339.00/M	ECJ-3VC1H682J
			8200pF	±5%	1.15	PCC2166CT-ND◆§	9.89	74.21	263.84	478.21	PCC2166TR-ND◆§	3,000	439.00/M	ECJ-3FC1H822J
			10000pF	±5%	1.15	PCC2167CT-ND◆§	15.64	110.30	381.05	601.65	PCC2167TR-ND◆§	3,000	521.43/M	ECJ-3FC1H103J
	X7R	630	1000pF	±10%	1.15	PCC2291CT-ND◆	2.43	17.35	62.46	97.16	PCC2291TR-ND◆	3,000	94.00/M	ECJ-3FB2J102K
			2200pF	±10%	1.15	PCC2293CT-ND◆	2.43	17.35	62.46	97.16	PCC2293TR-ND◆	3,000	94.00/M	ECJ-3FB2J222K
			4700pF	±10%	1.15	PCC2294CT-ND◆	2.43	17.35	62.46	97.16	PCC2294TR-ND◆	3,000	94.00/M	ECJ-3FB2J472K
			.01µF	±10%	1.15	PCC2292CT-ND◆	2.43	17.35	62.46	97.16	PCC2292TR-ND◆	3,000	94.00/M	ECJ-3FB2J103K
		200	15000pF	±10%	1.15	PCC2466CT-ND◆	3.09	20.71	67.77	120.48	PCC2466TR-ND◆	3,000	109.00/M	ECJ-3FB2D153K
			15000pF	±10%	1.15	PCC2013CT-ND◆	6.98	51.23	185.30	316.10	PCC2013TR-ND◆	2,000	294.00/M	ECJ-3YB2D153K
			22000pF	±10%	1.15	PCC2467CT-ND◆	3.17	21.26	69.57	123.68	PCC2467TR-ND◆	3,000	112.00/M	ECJ-3FB2D223K
			22000pF	±10%	1.15	PCC2014CT-ND◆	6.98	51.23	185.30	316.10	PCC2014TR-ND◆	2,000	294.00/M	ECJ-3YB2D223K
		100	22000pF	±10%	1.15	PCC2468CT-ND◆	3.65	23.66	73.08	121.80	PCC2468TR-ND◆	3,000	111.00/M	ECJ-3FB2A223K
			22000pF	±10%	1.15	PCC2010CT-ND◆	4.55	32.50	117.00	195.00	PCC2010TR-ND◆	2,000	182.00/M	ECJ-3YB2A223K
			33000pF	±10%	1.15	PCC2469CT-ND◆	3.65	23.66	73.08	121.80	PCC2469TR-ND◆	3,000	111.00/M	ECJ-3FB2A333K
			33000pF	±10%	1.15	PCC2011CT-ND◆	5.04	36.00	129.60	216.00	PCC2011TR-ND◆	2,000	202.00/M	ECJ-3YB2A333K
			47000pF	±10%	1.15	PCC2470CT-ND◆	3.25	21.81	71.37	126.88	PCC2470TR-ND◆	3,000	115.00/M	ECJ-3FB2A473K
			47000pF	±10%	1.15	PCC2012CT-ND◆	5.04	36.00	129.60	216.00	PCC2012TR-ND◆	2,000	202.00/M	ECJ-3YB2A473K
			.1µF	±10%	1.60	PCC2239CT-ND◆	3.16	23.24	84.07	133.52	PCC2239TR-ND◆	2,000	132.00/M	ECJ-3YB2A104K

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics *(Continued)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							10	100	500	1,000		Qty.	Pricing	
1206	X7R	50	.1µF	±10%	1.00	PCC104BCT-ND◆	3.96	28.25	101.70	169.50	PCC104BTR-ND◆	4,000	147.00/M	ECJ-3VB1H104K
			.22µF	±10%	1.60	PCC2299CT-ND◆	2.27	16.01	55.29	87.30	PCC2299TR-ND◆	2,000	79.00/M	ECJ-3YB1H224K
		25	.1µF	±10%	0.85	PCC1883CT-ND◆	1.69	11.94	41.23	69.44	PCC1883TR-ND◆	4,000	56.00/M	ECJ-3VB1E104K
			.12µF	±10%	0.85	PCC1884CT-ND	2.07	14.58	50.35	84.80	PCC1884TR-ND	4,000	69.00/M	ECJ-3VB1E124K
			.15µF	±10%	0.85	PCC1885CT-ND◆	1.69	11.94	41.23	69.44	PCC1885TR-ND◆	4,000	56.00/M	ECJ-3VB1E154K
			.18µF	±10%	0.85	PCC1886CT-ND◆	2.42	17.05	58.90	99.20	PCC1886TR-ND◆	4,000	81.00/M	ECJ-3VB1E184K
			.22µF	±10%	0.85	PCC1887CT-ND◆	1.69	11.94	41.23	69.44	PCC1887TR-ND◆	4,000	56.00/M	ECJ-3VB1E224K
			.27µF	±10%	0.85	PCC1888CT-ND◆	2.42	17.05	58.90	99.20	PCC1888TR-ND◆	4,000	81.00/M	ECJ-3VB1E274K
			.33µF	±10%	0.85	PCC1889CT-ND◆	1.76	12.40	42.85	72.16	PCC1889TR-ND◆	4,000	59.00/M	ECJ-3VB1E334K
			.39µF	±10%	1.15	PCC1890CT-ND◆	3.36	24.00	86.40	144.00	PCC1890TR-ND◆	2,000	134.00/M	ECJ-3YB1E394K
			.47µF	±10%	1.15	PCC2412CT-ND◆	2.37	15.33	47.36	67.65	PCC2412TR-ND◆	3,000	68.00/M	ECJ-3FB1E474K
			.47µF	±10%	1.15	PCC1891CT-ND◆	4.17	29.75	107.10	178.50	PCC1891TR-ND◆	2,000	167.00/M	ECJ-3YB1E474K
			.56µF	±10%	1.60	PCC1926CT-ND◆	4.06	29.00	104.40	174.00	PCC1926TR-ND◆	2,000	162.00/M	ECJ-3YB1E564K
			.68µF	±10%	1.60	PCC1892CT-ND◆	1.58	11.28	40.59	67.65	PCC1892TR-ND◆	2,000	63.00/M	ECJ-3YB1E684K
			.82µF	±10%	1.60	PCC1927CT-ND◆	4.26	31.26	113.05	192.85	PCC1927TR-ND◆	2,000	180.00/M	ECJ-3YB1E824K
			1µF	±10%	1.60	PCC1893CT-ND◆	2.50	18.35	66.39	113.25	PCC1893TR-ND◆	2,000	105.00/M	ECJ-3YB1E105K
		16	.1µF	±10%	0.85	PCC1870CT-ND◆	1.68	12.03	43.29	72.15	PCC1870TR-ND◆	4,000	63.00/M	ECJ-3VB1C104K
			.12µF	±10%	0.85	PCC1871CT-ND	2.42	17.25	62.10	103.50	PCC1871TR-ND	4,000	90.00/M	ECJ-3VB1C124K
			.15µF	±10%	0.85	PCC1872CT-ND	1.86	13.25	47.70	79.50	PCC1872TR-ND	4,000	69.00/M	ECJ-3VB1C154K
			.18µF	±10%	0.85	PCC1873CT-ND	2.66	19.00	68.40	114.00	PCC1873TR-ND	4,000	99.00/M	ECJ-3VB1C184K
			.22µF	±10%	0.85	PCC1874CT-ND◆	2.03	14.50	52.20	87.00	PCC1874TR-ND◆	4,000	75.00/M	ECJ-3VB1C224K
			.27µF	±10%	0.85	PCC1875CT-ND◆	2.91	20.75	74.70	124.50	PCC1875TR-ND◆	4,000	108.00/M	ECJ-3VB1C274K
			.33µF	±10%	0.85	PCC1876CT-ND◆	1.25	8.90	32.04	53.40	PCC1876TR-ND◆	4,000	46.00/M	ECJ-3VB1C334K
			.39µF	±10%	0.85	PCC1877CT-ND	3.50	25.00	90.00	150.00	PCC1877TR-ND	4,000	130.00/M	ECJ-3VB1C394K
			.47µF	±10%	0.85	PCC1878CT-ND	1.34	9.60	34.56	57.60	PCC1878TR-ND	4,000	50.00/M	ECJ-3VB1C474K
			.56µF	±10%	0.85	PCC1879CT-ND◆	3.94	28.91	104.55	178.35	PCC1879TR-ND◆	4,000	160.00/M	ECJ-3VB1C564K
			.68µF	±10%	0.85	PCC1880CT-ND◆	1.37	10.03	36.30	61.92	PCC1880TR-ND◆	4,000	58.00/M	ECJ-3VB1C684K
			.82µF	±10%	1.15	PCC1881CT-ND◆	5.41	39.72	143.65	245.05	PCC1881TR-ND◆	2,000	228.00/M	ECJ-3YB1C824K
			1µF	±10%	1.15	PCC2471CT-ND◆	2.99	19.38	59.85	99.75	PCC2471TR-ND◆	3,000	91.00/M	ECJ-3FB1C105K
			1µF	±10%	1.15	PCC1882CT-ND◆	6.30	46.30	167.45	285.65	PCC1882TR-ND◆	2,000	266.00/M	ECJ-3YB1C105K
			1.5µF	±10%	1.60	PCC1929CT-ND◆	7.30	53.58	193.80	330.60	PCC1929TR-ND◆	2,000	308.00/M	ECJ-3YB1C155K
			2.2µF	±10%	1.60	PCC1931CT-ND◆	3.65	27.34	97.20	176.18	PCC1931TR-ND◆	2,000	162.00/M	ECJ-3YB1C225K
			10µF	±10%	1.60	PCC13491CT-ND◆	10.49	78.68	279.76	465.10	PCC13491TR-ND◆	2,000	455.00/M	ECJ-3YX1C106K
	X5R	25	2.2µF	±10%	1.60	PCC2296CT-ND◆	3.88	28.53	103.19	163.89	PCC2296TR-ND◆	2,000	158.00/M	ECJ-3YB1E225K
			4.7µF	±10%	1.60	PCC2297CT-ND◆	5.44	39.95	144.50	229.50	PCC2297TR-ND◆	2,000	221.00/M	ECJ-3YB1E475K
			4.7µF	±20%	1.60	PCC2241CT-ND◆	5.10	38.25	136.00	226.10	PCC2241TR-ND◆	2,000	221.00/M	ECJ-3YB1E475M
			4.7µF	±20%	1.60	PCC2226CT-ND◆	5.10	38.25	136.00	226.10	PCC2226TR-ND◆	2,000	221.00/M	ECJ-3YB1C475M
			10µF	±20%	1.60	PCC2326CT-ND◆	5.43	39.86	144.16	254.40	PCC2326TR-ND◆	2,000	229.00/M	ECJ-3YB1E106M
			10µF	±10%	1.60	PCC2414CT-ND◆	5.45	36.07	136.26	216.41	PCC2414TR-ND◆	2,000	216.00/M	ECJ-3YB1E106K
		16	1.5µF	±10%	1.60	PCC1867CT-ND◆	2.86	21.47	76.32	138.33	PCC1867TR-ND◆	2,000	127.00/M	ECJ-3YB1A155K
			4.7µF	±10%	1.60	PCC2250CT-ND◆	5.78	38.25	144.50	246.50	PCC2250TR-ND◆	2,000	230.00/M	ECJ-3YB1C475K
			10µF	±10%	1.60	PCC2413CT-ND◆	9.62	72.14	256.48	426.40	PCC2413TR-ND◆	2,000	426.00/M	ECJ-3YB1C106K
			10µF	±20%	0.85	PCC2417CT-ND◆	4.48	30.06	98.37	153.02	PCC2417TR-ND◆	4,000	145.00/M	ECJ-HVB1C106M
			10µF	±20%	1.60	PCC2227CT-ND◆	10.33	77.47	275.44	457.92	PCC2227TR-ND◆	2,000	448.00/M	ECJ-3YB1C106M
			22µF	±20%	1.60	PCC2332CT-ND◆	13.94	105.20	394.50	—	PCC2332TR-ND◆	2,000	673.00/M	ECJ-3YB1C226M
		10	2.2µF	±10%	0.85	PCC2312CT-ND◆	4.09	30.03	108.63	172.53	PCC2312TR-ND◆	4,000	166.00/M	ECJ-HVB1A225K
			2.2µF	±10%	1.60	PCC1868CT-ND◆	3.59	26.93	95.76	173.57	PCC1868TR-ND◆	2,000	159.00/M	ECJ-3YB1A225K
			2.7µF	±10%	1.60	PCC1934CT-ND§	8.52	63.90	227.20	411.80	—	—	—	ECJ-3YB1A275K
			3.3µF	±10%	1.60	PCC1869CT-ND◆	3.59	26.93	95.76	173.57	PCC1869TR-ND◆	2,000	159.00/M	ECJ-3YB1A335K
			4.7µF	±10%	1.60	PCC2295CT-ND◆	4.72	34.66	125.38	199.13	PCC2295TR-ND◆	2,000	199.00/M	ECJ-3YB1A475K
			4.7µF	±20%	1.60	PCC2177CT-ND◆	4.43	33.19	118.00	213.88	PCC2177TR-ND◆	2,000	196.00/M	ECJ-3YB1A475M
			10µF	±20%	1.60	PCC2178CT-ND◆	5.38	40.37	143.52	260.13	PCC2178TR-ND◆	2,000	239.00/M	ECJ-3YB1A106M
			22µF	±20%	1.60	PCC2331CT-ND◆	11.85	88.88	316.00	—	PCC2331TR-ND◆	2,000	514.00/M	ECJ-3YB1A226M
			22µF	±20%	0.85	PCC2432CT-ND◆	10.20	67.50	255.00	405.00	PCC2432TR-ND◆	4,000	465.00/M	ECJ-HVB1A226M
		6.3	4.7µF	±10%	1.60	PCC1936CT-ND◆	4.16	31.23	111.04	201.26	PCC1936TR-ND◆	2,000	185.00/M	ECJ-3YB0J475K
			4.7µF	±10%	0.85	PCC2311CT-ND◆	4.73	34.73	125.63	199.53	PCC2311TR-ND◆	4,000	192.00/M	ECJ-HVB0J475K
			4.7µF	±20%	0.85	PCC2316CT-ND◆	4.73	34.73	125.63	199.53	PCC2316TR-ND◆	4,000	192.00/M	ECJ-HVB0J475M
			6.8µF	±10%	1.60	PCC1938CT-ND◆	10.20	76.50	272.00	493.00	PCC1938TR-ND◆	2,000	452.00/M	ECJ-3YB0J685K
			8.2µF	±10%	1.60	PCC1939CT-ND§	11.58	86.85	308.80	559.70	—	—	—	ECJ-3YB0J825K
			10µF	±10%	1.60	PCC1940CT-ND◆	6.00	45.00	160.00	290.00	PCC1940TR-ND◆	2,000	266.00/M	ECJ-3YB0J106K
			10µF	±20%	0.85	PCC2317CT-ND◆	8.00	59.96	213.20	354.45	PCC2317TR-ND◆	4,000	341.00/M	ECJ-HVB0J106M
			10µF	±20%	0.85	PCC2328CT-ND◆‡	5.82	42.77	154.70	245.70	PCC2328TR-ND◆‡	4,000	237.00/M	ECJ-DV50J106M
			22µF	±20%	0.85	PCC2329CT-ND◆‡	10.17	76.28	271.20	450.87	PCC2329TR-ND◆‡	4,000	434.00/M	ECJ-DV50J226M
			22µF	±20%	1.60	PCC2242CT-ND◆	12.87	97.16	364.35	631.54	PCC2242TR-ND◆	2,000	622.00/M	ECJ-3YB0J226M
			22µF	±20%	0.85	PCC2416CT-ND◆	10.20	76.50	272.00	452.20	PCC2416TR-ND◆	4,000	435.00/M	ECJ-HVB0J226M
	Y5V	25	.47µF	+80%/-20%	0.85	PCC1901CT-ND◆	1.27	8.94	30.88	52.00	PCC1901TR-ND◆	4,000	42.00/M	ECJ-3VF1E474Z
			.68µF	+80%/-20%	1.15	PCC1902CT-ND	2.87	20.50	73.80	123.00	PCC1902TR-ND	2,000	115.00/M	ECJ-3YF1E684Z
			1µF	+80%/-20%	1.15	PCC2472CT-ND◆	2.64	17.07	52.71	87.85	PCC2472TR-ND◆	3,000	80.00/M	ECJ-3FF1E105Z
			1µF	+80%/-20%	1.15	PCC1903CT-ND◆	3.29	23.50	84.60	141.00	PCC1903TR-ND◆	2,000	132.00/M	ECJ-3YF1E105Z
			1.5µF	+80%/-20%	1.15	PCC1904CT-ND◆	4.19	30.79	111.35	189.95	PCC1904TR-ND◆	2,000	177.00/M	ECJ-3YF1E155Z
			2.2µF	+80%/-20%	1.15	PCC2473CT-ND◆	3.31	21.45	66.26	110.43	PCC2473TR-ND◆	3,000	101.00/M	ECJ-3FF1E225Z
			2.2µF	+80%/-20%	1.15	PCC1905CT-ND◆	4.19	30.79	111.35	189.95	PCC1905TR-ND◆	2,000	177.00/M	ECJ-3YF1E225Z
		16	.68µF	+80%/-20%	0.85	PCC1895CT-ND	3.71	26.50	95.40	159.00	PCC1895TR-ND	4,000	138.00/M	ECJ-3VF1C684Z
			1µF	+80%/-20%	0.85	PCC1896CT-ND◆	1.22	8.73	31.41	52.35	PCC1896TR-ND◆	4,000	45.00/M	ECJ-3VF1C105Z
			1.5µF	+80%/-20%	0.85	PCC1897CT-ND§	4.17	29.75	107.10	178.50	—	—	—	ECJ-3VF1C155Z
			2.2µF	+80%/-20%	0.85	PCC1898CT-ND◆	1.66	11.85	42.66	71.10	PCC1898TR-ND◆	4,000	62.00/M	ECJ-3VF1C225Z
			4.7µF	+80%/-20%	1.15	PCC2474CT-ND◆	3.39	21.93	67.73	119.33	PCC2474TR-ND◆	3,000	103.00/M	ECJ-3FF1C475Z
			4.7µF	+80%/-20%	1.15	PCC1900CT-ND◆	6.75	49.59	179.35	305.95	PCC1900TR-ND◆	2,000	285.00/M	ECJ-3YF1C475Z
			10µF	+80%/-20%	1.25	PCC2420CT-ND◆	3.35	22.44	73.44	114.24	PCC2420TR-ND◆	3,000	114.00/M	ECJ-MFF1C106Z
		10	10µF	+80%/-20%	1.60	PCC1894CT-ND◆	2.89	21.67	77.04	139.64	PCC1894TR-ND◆	2,000	128.00/M	ECJ-3YF1A106Z
			10µF	+80%/-20%	1.25	PCC2418CT-ND◆	3.28	22.03	72.09	112.14	PCC2418TR-ND◆	3,000	112.00/M	ECJ-MFF1A106Z
			22µF	+80%/-20%	1.25	PCC2419CT-ND◆	4.71	31.14	117.64	186.84	PCC2419TR-ND◆	3,000	184.00/M	ECJ-MFF1A226Z
	F	50	1.0µF	+80%/-20%	1.15	PCC2234CT-ND◆	2.12	15.18	54.63	84.98	PCC2234TR-ND◆	3,000	81.00/M	ECJ-3FF1H105Z
		25	4.7µF	+80%/-20%	1.15	PCC2235CT-ND◆	1.93	14.15	51.17	81.27	PCC2235TR-ND◆	3,000	80.00/M	ECJ-3FF1E475Z
			10µF	+80%/-20%	1.60	PCC2415CT-ND◆	3.88	26.04	85.23	132.58	PCC2415TR-ND◆	2,000	133.00/M	ECJ-3YF1E106Z
		16	10µF	+80%/-20%	1.60	PCC2300CT-ND◆	3.46	24.73	89.01	138.46	PCC2300TR-ND◆	2,000	134.00/M	ECJ-3YF1C106Z
		10	22µF	+80%/-20%	1.60	PCC2236CT-ND◆	5.21	39.04	138.80	230.76	PCC2236TR-ND◆	2,000	226.00/M	ECJ-3YF1A226Z
1210	X7R	100	0.22µF	±10%	2.00	PCC2304CT-ND◆§	8.20	61.49	218.64	363.49	PCC2304TR-ND◆§	2,000	363.00/M	ECJ-4YB2A224K
			0.47µF	±10%	2.00	PCC2240CT-ND◆§	6.91	50.76	183.60	291.60	PCC2240TR-ND◆§	2,000	287.00/M	ECJ-4YB2A474K
			0.68µF	±10%	2.50	PCC2305CT-ND◆§	7.20	54.00	192.00	—	PCC2305TR-ND◆§	1,000	319.00	ECJ-4YB2A684K
			0.68µF	±20%	2.50	PCC2247CT-ND◆§	7.20	54.00	192.00	—	PCC2247TR-ND◆§	1,000	319.00	ECJ-4YB2A684M
	X5R	50	1µF	±10%	2.00	PCC2303CT-ND◆§	5.84	42.91	155.21	246.51	PCC2303TR-ND◆§	2,000	237.00/M	ECJ-4YB1H105K
		25	2.2µF	±10%	2.00	PCC2302CT-ND◆§	6.01	44.16	159.72	253.67	PCC2302TR-ND◆§	2,000	244.00/M	ECJ-4YB1E225K
			4.7µF	±10%	2.00	PCC2251CT-ND◆§	6.66	48.93	176.97	281.07	PCC2251TR-ND◆§	2,000	281.00/M	ECJ-4YB1E475K
			10µF	±20%	2.50	PCC2243CT-ND◆§	12.60	94.50	336.00	—	PCC2243TR-ND◆§	1,000	559.00	ECJ-4YB1E106M
			22µF	±20%	2.50	PCC2333CT-ND◆§	26.16	197.40	740.25	—	PCC2333TR-ND◆§	1,000	1283.00	ECJ-4YB1E226M
		16	4.7µF	±10%	2.00	PCC2168CT-ND◆§	5.76	43.18	153.52	278.26	PCC2168TR-ND◆§	2,000	255.00/M	ECJ-4YB1C475K
			10µF	±10%	2.00	PCC2169CT-ND◆§	10.77	80.78	287.20	520.55	PCC2169TR-ND◆§	2,000	477.00/M	ECJ-4YB1C106K
			22µF	±20%	2.00	PCC2330CT-ND◆§	17.45	131.68	493.80	—	PCC2330TR-ND◆§	1,000	856.00	ECJ-4YB1C226M
			47µF	±20%	2.50	PCC2335CT-ND◆§	34.19	258.00	967.50	—	PCC2335TR-ND◆§	1,000	1677.00	ECJ-4YB1C476M
		10	10µF	±10%	2.00	PCC2170CT-ND◆§	8.97	67.28	239.20	433.55	PCC2170TR-ND◆§	2,000	398.00/M	ECJ-4YB1A106K
			10µF	±20%	1.40	PCC2238CT-ND◆§	7.29	54.65	194.32	323.06	PCC2238TR-ND◆§	2,000	316.00/M	ECJ-8YB1A106M

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics

(Continued)

Panasonic Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812 *(Cont.)*

Digi-Reel®

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
1210	X5R	10	22µF	±20%	2.50	PCC2228CT-ND◆§	16.09	121.46	455.48	—	PCC2228TR-ND◆§	1,000	789.00	ECJ-4YB1A226M
			47µF	±20%	2.50	PCC2334CT-ND◆§	33.13	250.00	937.50	—	PCC2334TR-ND◆§	1,000	1625.00	ECJ-4YB1A476M
		6.3	22µF	±20%	2.50	PCC2179CT-ND◆§	17.18	128.84	458.08	—	PCC2179TR-ND◆§	1,000	762.00	ECJ-4YB0J226M
			47µF	±10%	2.50	PCC2301CT-ND◆§	32.18	242.90	910.88	—	PCC2301TR-ND◆§	1,000	1579.00	ECJ-4YB0J476M
			100µF	±20%	2.50	PCC2267CT-ND◆§	57.79	436.14	1635.53	—	PCC2267TR-ND◆§	1,000	2835.00	ECJ-4YB0J107M
	Y5V	25	10µF	+80%/-20%	1.60	PCC2171CT-ND◆§	6.00	45.02	160.08	290.15	PCC2171TR-ND◆§	2,000	266.00/M	ECJ-4YF1E106Z
		10	22µF	+80%/-20%	2.00	PCC2172CT-ND◆§	7.13	53.48	190.16	344.67	PCC2172TR-ND◆§	2,000	316.00/M	ECJ-4YF1A226Z
	F	6.3	47µF	+80%/-20%	2.00	PCC2237CT-ND◆§	16.09	121.46	455.48	789.49	PCC2237TR-ND◆§	2,000	777.00/M	ECJ-4YF0J476Z
		16	10µF	+80%/-20%	2.00	PCC2306CT-ND◆§	6.18	45.38	164.14	—	PCC2306TR-ND◆§	2,000	261.00/M	ECJ-4YF1C106Z
			22µF	+80%/-20%	2.00	PCC2307CT-ND◆§	9.86	73.94	262.88	—	PCC2307TR-ND◆§	2,000	437.00/M	ECJ-4YF1C226Z
		50	4.7µF	+80%/-20%	2.00	PCC2309CT-ND◆§	6.97	52.27	185.84	—	PCC2309TR-ND◆§	2,000	309.00/M	ECJ-4YF1H475Z
			10µF	+80%/-20%	2.00	PCC2308CT-ND◆§	6.97	52.27	185.84	—	PCC2308TR-ND◆§	2,000	309.00/M	ECJ-4YF1H106Z
1812	X7R	100	1.0µF	±20%	2.50	PCC2248CT-ND◆	13.62	102.78	—	—	PCC2248TR-ND◆	500	385.50	ECJ-5YB2A105M
	X5R	25	10µF	±20%	2.50	PCC2180CT-ND◆	20.82	156.15	—	—	PCC2180TR-ND◆	500	461.50	ECJ-5YB1E106M
		16	22µF	±20%	3.20	PCC2244CT-ND◆	31.80	239.98	—	—	PCC2244TR-ND◆	500	900.00	ECJ-5YB1C226M
		6.3	47µF	±20%	3.20	PCC2245CT-ND◆	27.24	205.57	—	—	PCC2245TR-ND◆	500	771.00	ECJ-5YB0J476M
	F	6.3	100µF	+80%/-20%	3.20	PCC2246CT-ND◆	36.78	277.60	—	—	PCC2246TR-ND◆	500	1041.00	ECJ-5YF0J107Z

◆ ***RoHS Compliant*** ‡ Reduced DC Bias Voltage Characteristics § Not for new design † Improved DC Bias Voltage Characteristics

Digi-Key® Notebook Style Kit Boxes

Notebook style kit box with velcro closure can be stored as a normal kit box, or vertically as a book. Each compartment is identified with an easy-to-read kit index.

- **PCC7-KIT-ND** ***0805/NP0 Series Kit*** 10 each of values denoted (300 total pieces) **$29.95**
- **PCC9-KIT-ND** ***0603/NP0 Series Kit*** 10 each of values denoted (300 total pieces) **$29.95**
- **PCC13-KIT-ND** ***0402/NP0 Series Kit*** 10 each of values denoted (280 total pieces) **$49.95**
- **PCC14-KIT-ND** ***0402/X7R Series Kit*** 10 each of values denoted (300 total pieces).................... **$45.95**
- **PCC15-KIT-ND** ***0603/X7R-X5R Series Kit*** 10 each of values denoted (300 total pieces) **$29.95**
- **PCC16-KIT-ND** ***0805/X7R Series Kit*** 10 each of values denoted (300 total pieces).................... **$29.95**
- **PCC17-KIT-ND** ***1206/NP0 Series Kit*** 10 each of values denoted (140 total pieces) **$89.95**

Panasonic High-Q (Microwave) Multilayer Chip Capacitors 0201 and 0402 High-Accuracy/High-Frequency

Digi-Reel®

Features: • Lead Free • Operating Temperature Range: -55°C ~ 125°C • Low Cap. with Tight Tolerance • High Q value / Low ESR at High Frequency. • Ultra-Stable C0G Performance (0±30 ppm/°C) • 0201 and 0402 Miniature Sizes **Applications (At Microwave Frequency):** • Impedance Matching Circuit • Resonant Circuit • Coupling Circuit **Application Examples:** • RF modules, VCO, BPF, DUP, PA, etc. • Cellular Phone, Bluetooth, Wireless LAN, etc.

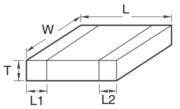

Dimensions shown in mm.

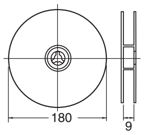

Size Code (EIA)	L	W	T	L1 / L2
0201	0.60±0.03	0.30±0.03	0.30	0.15±0.05
0402	1.00±0.05	0.50±0.05	0.50	0.20±0.10

Size Code	Type	WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
0201	C0G	25	.10pF	±0.05pF	PCC2337CT-ND◆*	2.45	15.84	48.93	69.90	PCC2337TR-ND◆	15,000	62.00/M	ECD-GZER108
			.20pF	±0.05pF	PCC2338CT-ND◆*	2.45	15.84	48.93	69.90	PCC2338TR-ND◆	15,000	62.00/M	ECD-GZER208
			.30pF	±0.05pF	PCC2339CT-ND◆*	2.45	15.84	48.93	69.90	PCC2339TR-ND◆	15,000	62.00/M	ECD-GZER308
			.40pF	±0.05pF	PCC2340CT-ND◆*	2.45	15.84	48.93	69.90	PCC2340TR-ND◆	15,000	62.00/M	ECD-GZER408
			.50pF	±0.05pF	PCC2341CT-ND◆*	2.45	15.84	48.93	69.90	PCC2341TR-ND◆	15,000	62.00/M	ECD-GZER508
			.60pF	±0.075pF	PCC2342CT-ND◆*	2.45	15.84	48.93	69.90	PCC2342TR-ND◆	15,000	62.00/M	ECD-GZER609
			.70pF	±0.075pF	PCC2343CT-ND◆*	2.45	15.84	48.93	69.90	PCC2343TR-ND◆	15,000	62.00/M	ECD-GZER709
			.80pF	±0.075pF	PCC2344CT-ND◆*	2.45	15.84	48.93	69.90	PCC2344TR-ND◆	15,000	62.00/M	ECD-GZER809
			.90pF	±0.075pF	PCC2345CT-ND◆*	2.45	15.84	48.93	69.90	PCC2345TR-ND◆	15,000	62.00/M	ECD-GZER909
			1.0pF	±0.10pF	PCC2346CT-ND◆*	2.45	15.84	48.93	69.90	PCC2346TR-ND◆	15,000	62.00/M	ECD-GZE1R0B
			1.1pF	±0.10pF	PCC2347CT-ND◆*	2.45	15.84	48.93	69.90	PCC2347TR-ND◆	15,000	62.00/M	ECD-GZE1R1B
			1.2pF	±0.10pF	PCC2348CT-ND◆*	2.45	15.84	48.93	69.90	PCC2348TR-ND◆	15,000	62.00/M	ECD-GZE1R2B
			1.3pF	±0.10pF	PCC2349CT-ND◆*	2.45	15.84	48.93	69.90	PCC2349TR-ND◆	15,000	62.00/M	ECD-GZE1R3B
			1.5pF	±0.10pF	PCC2350CT-ND◆*	2.45	15.84	48.93	69.90	PCC2350TR-ND◆	15,000	62.00/M	ECD-GZE1R5B
			1.6pF	±0.10pF	PCC2351CT-ND◆*	2.45	15.84	48.93	69.90	PCC2351TR-ND◆	15,000	62.00/M	ECD-GZE1R6B
			1.8pF	±0.10pF	PCC2352CT-ND◆*	2.45	15.84	48.93	69.90	PCC2352TR-ND◆	15,000	62.00/M	ECD-GZE1R8B
			2.0pF	±0.10pF	PCC2353CT-ND◆*	2.45	15.84	48.93	69.90	PCC2353TR-ND◆	15,000	62.00/M	ECD-GZE2R0B
			2.2pF	±0.10pF	PCC2356CT-ND◆*	2.45	15.84	48.93	69.90	PCC2356TR-ND◆	15,000	62.00/M	ECD-GZE2R2B
			2.4pF	±0.10pF	PCC2357CT-ND◆*	2.45	15.84	48.93	69.90	PCC2357TR-ND◆	15,000	62.00/M	ECD-GZE2R4B
			2.7pF	±0.10pF	PCC2358CT-ND◆*	2.45	15.84	48.93	69.90	PCC2358TR-ND◆	15,000	62.00/M	ECD-GZE2R7B
			3.0pF	±0.10pF	PCC2359CT-ND◆*	2.45	15.84	48.93	69.90	PCC2359TR-ND◆	15,000	62.00/M	ECD-GZE3R0B
			3.3pF	±0.25pF	PCC2360CT-ND◆*	2.45	15.84	48.93	69.90	PCC2360TR-ND◆	15,000	62.00/M	ECD-GZE3R3C
			3.9pF	±0.25pF	PCC2361CT-ND◆	2.45	15.84	48.93	69.90	PCC2361TR-ND◆	15,000	62.00/M	ECD-GZE3R9C
			4.7pF	±0.25pF	PCC2362CT-ND◆	2.45	15.84	48.93	69.90	PCC2362TR-ND◆	15,000	62.00/M	ECD-GZE4R7C
0402	C0G	25	.10pF	±0.05pF	PCC2190CT-ND◆†	2.45	15.84	48.93	69.90	PCC2190TR-ND◆	10,000	62.00/M	ECD-G0ER108
			.20pF	±0.05pF	PCC2192CT-ND◆†	2.45	15.84	48.93	69.90	PCC2192TR-ND◆	10,000	62.00/M	ECD-G0ER208
			.30pF	±0.05pF	PCC2194CT-ND◆†	2.45	15.84	48.93	69.90	PCC2194TR-ND◆	10,000	62.00/M	ECD-G0ER308
			.35pF	±0.05pF	PCC2195CT-ND	5.59	37.00	139.78	222.01	—	—	—	ECD-G0ER358
			.40pF	±0.05pF	PCC2196CT-ND◆†	2.45	15.84	48.93	69.90	PCC2196TR-ND◆	10,000	62.00/M	ECD-G0ER408
			.50pF	±0.05pF	PCC2198CT-ND◆†	2.45	15.84	48.93	69.90	PCC2198TR-ND◆	10,000	62.00/M	ECD-G0ER508
			.55pF	±0.075pF	PCC2199CT-ND	2.55	16.88	63.75	101.25	—	—	—	ECD-G0ER559
			.60pF	±0.075pF	PCC2200CT-ND◆†	2.45	15.84	48.93	69.90	PCC2200TR-ND◆	10,000	62.00/M	ECD-G0ER609
			.70pF	±0.075pF	PCC2202CT-ND◆†	2.45	15.84	48.93	69.90	PCC2202TR-ND◆	10,000	62.00/M	ECD-G0ER709
			.80pF	±0.075pF	PCC2204CT-ND◆†	2.45	15.84	48.93	69.90	PCC2204TR-ND◆	10,000	62.00/M	ECD-G0ER809
			.90pF	±0.075pF	PCC2206CT-ND◆†	2.45	15.84	48.93	69.90	PCC2206TR-ND◆	10,000	62.00/M	ECD-G0ER909
			1.0pF	±0.10pF	PCC2252CT-ND◆†	2.45	15.84	48.93	69.90	PCC2252TR-ND◆	10,000	62.00/M	ECD-G0E1R0B
			1.1pF	±0.10pF	PCC2209CT-ND◆†	2.45	15.84	48.93	69.90	PCC2209TR-ND◆	10,000	62.00/M	ECD-G0E1R1B
			1.2pF	±0.10pF	PCC2210CT-ND◆†	2.45	15.84	48.93	69.90	PCC2210TR-ND◆	10,000	62.00/M	ECD-G0E1R2B
			1.3pF	±0.10pF	PCC2211CT-ND◆†	2.45	15.84	48.93	69.90	PCC2211TR-ND◆	10,000	62.00/M	ECD-G0E1R3B
			1.5pF	±0.10pF	PCC2213CT-ND◆†	2.45	15.84	48.93	69.90	PCC2213TR-ND◆	10,000	62.00/M	ECD-G0E1R5B
			1.6pF	±0.10pF	PCC2214CT-ND◆†	2.45	15.84	48.93	69.90	PCC2214TR-ND◆	10,000	62.00/M	ECD-G0E1R6B
			1.8pF	±0.10pF	PCC2216CT-ND◆†	2.45	15.84	48.93	69.90	PCC2216TR-ND◆	10,000	62.00/M	ECD-G0E1R8B
			2.0pF	±0.10pF	PCC2218CT-ND◆†	2.45	15.84	48.93	69.90	PCC2218TR-ND◆	10,000	62.00/M	ECD-G0E2R0B
			2.2pF	±0.10pF	PCC2253CT-ND◆†	2.45	15.84	48.93	69.90	PCC2253TR-ND◆	10,000	62.00/M	ECD-G0E2R2B
			2.4pF	±0.10pF	PCC2254CT-ND◆†	2.45	15.84	48.93	69.90	PCC2254TR-ND◆	10,000	62.00/M	ECD-G0E2R4B
			2.7pF	±0.10pF	PCC2255CT-ND◆†	2.45	15.84	48.93	69.90	PCC2255TR-ND◆	10,000	62.00/M	ECD-G0E2R7B
			3.0pF	±0.10pF	PCC2256CT-ND◆†	2.45	15.84	48.93	69.90	PCC2256TR-ND◆	10,000	62.00/M	ECD-G0E3R0B
			3.3pF	±0.25pF	PCC2258CT-ND◆†	2.45	15.84	48.93	69.90	PCC2258TR-ND◆	10,000	62.00/M	ECD-G0E3R3C
			3.9pF	±0.25pF	PCC2259CT-ND◆†	2.45	15.84	48.93	69.90	PCC2259TR-ND◆	10,000	62.00/M	ECD-G0E3R9C
			4.7pF	±0.25pF	PCC2260CT-ND◆†	2.45	15.84	48.93	69.90	PCC2260TR-ND◆	10,000	62.00/M	ECD-G0E4R7C
			5.6pF	±0.25pF	PCC2261CT-ND◆†	2.45	15.84	48.93	69.90	PCC2261TR-ND◆	10,000	62.00/M	ECD-G0E5R6C
			6.8pF	±0.25pF	PCC2262CT-ND◆†	2.45	15.84	48.93	69.90	PCC2262TR-ND◆	10,000	62.00/M	ECD-G0E6R8C
			8.2pF	±0.25pF	PCC2263CT-ND◆†	2.45	15.84	48.93	69.90	PCC2263TR-ND◆	10,000	62.00/M	ECD-G0E8R2C
			10.0pF	±0.25pF	PCC2264CT-ND◆†	2.45	15.84	48.93	69.90	PCC2264TR-ND◆	10,000	62.00/M	ECD-G0E100C
			12pF	±5%	PCC2265CT-ND◆†	2.45	15.84	48.93	69.90	PCC2265TR-ND◆	10,000	62.00/M	ECD-G0E120J
			15pF	±5%	PCC2266CT-ND◆†	2.45	15.84	48.93	69.90	PCC2266TR-ND◆	10,000	62.00/M	ECD-G0E150J

◆ ***RoHS Compliant***

* **PCC19-KIT-ND** ***Digi-Key® 0201/High-Q Series Kit*** 20 each of 21 values denoted (420 total pieces).. **$59.00**

† **PCC20-KIT-ND** ***Digi-Key® 0402/High-Q Series Kit*** 20 each of 30 values denoted (600 total pieces).. **$59.00**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX Multilayer Ceramic Chip Capacitors

Size Code	Dimension in (mm) L	W	t
0201	0.60 ±0.03	0.30 ±0.03	0.15 ±0.05
0402	1.00 ±0.10	0.50 ±0.10	0.25 ±0.15
0603	1.60 ±0.15	0.81 ±0.15	0.35 ±0.15
0805	2.01 ±0.20	1.25 ±0.20	0.50 ±0.25
1206	3.20 ±0.20	1.60 ±0.20	0.50 ±0.25
1210	3.20 ±0.20	2.50 ±0.20	0.50 ±0.25
1808	4.57 ±0.25	2.03 ±0.25	0.64 ±0.39
1812	4.50 ±0.30	3.20 ±0.20	0.64 ±0.36
1825	4.50 ±0.30	6.40 ±0.30	0.64 ±0.39
2220	5.70 ±0.40	5.00 ±0.40	0.64 ±0.39
2225	5.72 ±0.25	6.35 ±0.25	0.64 ±0.39

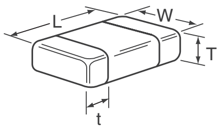

C0G (NP0) Dielectric: • EIA class I ceramic materials • C0G (NP0) ceramics offer one of the most stable capacitor dielectrics available • Operating temperature range: -55°C ~ 125°C • Capacitance change with temperature is 0±30ppm/°C which is less than ±0.3% Δ C from -55°C ~ 125°C

X7R Dielectric: • X7R formulations are called "temperature stable" ceramics and fall into EIA class II materials • Its temperature variation of capacitance is within ±15% from -55°C ~ 125°C • Operating temperature range: -55°C ~ 125°C

X5R Dielectric: • General purpose dielectric for ceramic capacitors • EIA Class II dielectric • Temperature variation of capacitance is within ±15% from -55°C ~ 85°C • Operating temperature range: -55°C ~ 85°C

Y5V Dielectric: • Y5V formulations are for general purpose use in a limited temperature range • They have a wide temperature characteristic of +22%-82% capacitance change over the operating temperature range of -30°C ~ 85°C

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0201	C0G (NP0)	25V	.5pF	±.25pF	0.33	478-1000-1-ND	2.75	16.25	46.88	478-1000-2-ND	15,000	45.00/M	02013A0R5CAT2A
			1.0pF	±.25pF	0.33	478-1001-1-ND	2.75	16.25	46.88	478-1001-2-ND	15,000	45.00/M	02013A1R0CAT2A
			1.2pF	±.25pF	0.33	478-1002-1-ND	4.95	29.25	84.38	478-1002-2-ND	15,000	81.00/M	02013A1R2CAT2A
			1.5pF	±.25pF	0.33	478-1003-1-ND	2.75	16.25	46.88	478-1003-2-ND	15,000	45.00/M	02013A1R5CAT2A
			1.8pF	±.25pF	0.33	478-1004-1-ND	4.95	29.25	84.38	478-1004-2-ND	15,000	81.00/M	02013A1R8CAT2A
			2.2pF	±.25pF	0.33	478-1005-1-ND	4.95	29.25	84.38	478-1005-2-ND	15,000	81.00/M	02013A2R2CAT2A
			2.7pF	±.25pF	0.33	478-1006-1-ND	4.95	29.25	84.38	478-1006-2-ND	15,000	81.00/M	02013A2R7CAT2A
			3.3pF	±.25pF	0.33	478-1007-1-ND	4.95	29.25	84.38	478-1007-2-ND	15,000	81.00/M	02013A3R3CAT2A
			3.9pF	±.25pF	0.33	478-1008-1-ND	4.95	29.25	84.38	478-1008-2-ND	15,000	81.00/M	02013A3R9CAT2A
			4.7pF	±.25pF	0.33	478-1009-1-ND	4.95	29.25	84.38	478-1009-2-ND	15,000	81.00/M	02013A4R7CAT2A
			5.6pF	±.25pF	0.33	478-1010-1-ND	4.95	29.25	84.38	478-1010-2-ND	15,000	81.00/M	02013A5R6CAT2A
			6.8pF	±.25pF	0.33	478-1011-1-ND	4.95	29.25	84.38	478-1011-2-ND	15,000	81.00/M	02013A6R8CAT2A
			8.2pF	±.25pF	0.33	478-1012-1-ND	4.95	29.25	84.38	478-1012-2-ND	15,000	81.00/M	02013A8R2CAT2A
			9.0pF	±.25pF	0.33	478-1013-1-ND	2.75	16.25	46.88	478-1013-2-ND	15,000	45.00/M	02013A9R0CAT2A
			10pF	±5%	0.33	478-1014-1-ND	2.75	16.25	46.88	478-1014-2-ND	15,000	45.00/M	02013A100JAT2A
			12pF	±5%	0.33	478-1015-1-ND	2.75	16.25	46.88	478-1015-2-ND	15,000	45.00/M	02013A120JAT2A
			15pF	±5%	0.33	478-1016-1-ND	2.75	16.25	46.88	478-1016-2-ND	15,000	45.00/M	02013A150JAT2A
			18pF	±5%	0.33	478-1017-1-ND	2.75	16.25	46.88	478-1017-2-ND	15,000	45.00/M	02013A180JAT2A
			22pF	±5%	0.33	478-1018-1-ND	2.75	16.25	46.88	478-1018-2-ND	15,000	45.00/M	02013A220JAT2A
			27pF	±5%	0.33	478-1019-1-ND	2.75	16.25	46.88	478-1019-2-ND	15,000	45.00/M	02013A270JAT2A
			33pF	±5%	0.33	478-1020-1-ND	2.75	16.25	46.88	478-1020-2-ND	15,000	45.00/M	02013A330JAT2A
		16V	39pF	±5%	0.33	478-1021-1-ND	2.75	16.25	46.88	478-1021-2-ND	15,000	45.00/M	0201YA390JAT2A
			47pF	±5%	0.33	478-1022-1-ND	2.75	16.25	46.88	478-1022-2-ND	15,000	45.00/M	0201YA470JAT2A
			56pF	±5%	0.33	478-1023-1-ND	2.75	16.25	46.88	478-1023-2-ND	15,000	45.00/M	0201YA560JAT2A
			68pF	±5%	0.33	478-1024-1-ND	2.75	16.25	46.88	478-1024-2-ND	15,000	45.00/M	0201YA680JAT2A
		10V	82pF	±5%	0.33	478-1025-1-ND	2.75	16.25	46.88	478-1025-2-ND	15,000	45.00/M	0201ZA820JAT2A
			100pF	±5%	0.33	478-1026-1-ND	5.50	32.50	93.75	478-1026-2-ND	15,000	90.00/M	0201ZA101JAT2A
	X7R	16V	100pF	±10%	0.33	478-1027-1-ND	4.95	29.25	84.38	478-1027-2-ND	15,000	81.00/M	0201YC101KAT2A
			120pF	±10%	0.33	478-1028-1-ND	4.95	29.25	84.38	478-1028-2-ND	15,000	81.00/M	0201YC121KAT2A
			150pF	±10%	0.33	478-1029-1-ND	2.75	16.25	46.88	478-1029-2-ND	15,000	45.00/M	0201YC151KAT2A
			180pF	±10%	0.33	478-1030-1-ND	4.95	29.25	84.38	478-1030-2-ND	15,000	81.00/M	0201YC181KAT2A
			220pF	±10%	0.33	478-1031-1-ND	2.75	16.25	46.88	478-1031-2-ND	15,000	45.00/M	0201YC221KAT2A
			270pF	±10%	0.33	478-1032-1-ND	4.95	29.25	84.38	478-1032-2-ND	15,000	81.00/M	0201YC271KAT2A
			330pF	±10%	0.33	478-1033-1-ND	2.75	16.25	46.88	478-1033-2-ND	15,000	45.00/M	0201YC331KAT2A
			390pF	±10%	0.33	478-1034-1-ND	4.95	29.25	84.38	478-1034-2-ND	15,000	81.00/M	0201YC391KAT2A
			470pF	±10%	0.33	478-1035-1-ND	2.75	16.25	46.88	478-1035-2-ND	15,000	45.00/M	0201YC471KAT2A
			560pF	±10%	0.33	478-1036-1-ND	5.28	31.20	90.00	478-1036-2-ND	15,000	86.00/M	0201YC561KAT2A
			680pF	±10%	0.33	478-1037-1-ND	2.75	16.25	46.88	478-1037-2-ND	15,000	45.00/M	0201YC681KAT2A
			820pF	±10%	0.33	478-1038-1-ND	5.28	31.20	90.00	478-1038-2-ND	15,000	86.00/M	0201YC821KAT2A
			1000pF	±10%	0.33	478-1039-1-ND	2.75	16.25	46.88	478-1039-2-ND	15,000	45.00/M	0201YC102KAT2A
	X5R	10V	1200pF	±10%	0.33	478-1040-1-ND	6.05	35.75	103.13	478-1040-2-ND	15,000	99.00/M	0201ZD122KAT2A
			1500pF	±10%	0.33	478-1041-1-ND	6.05	35.75	103.13	478-1041-2-ND	15,000	99.00/M	0201ZD152KAT2A
			1800pF	±10%	0.33	478-1042-1-ND	6.05	35.75	103.13	478-1042-2-ND	15,000	99.00/M	0201ZD182KAT2A
			2200pF	±10%	0.33	478-1043-1-ND	6.60	39.00	112.50	478-1043-2-ND	15,000	108.00/M	0201ZD222KAT2A
			2700pF	±10%	0.33	478-1044-1-ND	6.60	39.00	112.50	—	—	—	0201ZD272KAT2A
			3300pF	±10%	0.33	478-1045-1-ND	2.75	16.25	46.88	478-1045-2-ND	15,000	45.00/M	0201ZD332KAT2A
			3900pF	±10%	0.33	478-1046-1-ND	6.60	39.00	112.50	478-1046-2-ND	15,000	108.00/M	0201ZD392KAT2A
			4700pF	±10%	0.33	478-1047-1-ND	2.75	16.25	46.88	478-1047-2-ND	15,000	45.00/M	0201ZD472KAT2A
			5600pF	±10%	0.33	478-1048-1-ND	7.15	42.25	121.88	478-1048-2-ND	15,000	117.00/M	0201ZD562KAT2A
			6800pF	±10%	0.33	478-1049-1-ND	2.75	16.25	46.88	478-1049-2-ND	15,000	45.00/M	0201ZD682KAT2A
			8200pF	±10%	0.33	478-1050-1-ND	7.70	45.50	131.25	478-1050-2-ND	15,000	126.00/M	0201ZD822KAT2A
			10000pF	±10%	0.33	478-1051-1-ND	1.10	6.50	18.75	478-1051-2-ND	15,000	18.00/M	0201ZD103KAT2A
	Y5V	10V	10000pF	+80 -20%	0.33	478-1052-1-ND	8.25	48.75	140.63	478-1052-2-ND	15,000	135.00/M	0201ZG103ZAT2A
		6.3V	15000pF	+80 -20%	0.33	478-1053-1-ND	8.25	48.75	140.63	478-1053-2-ND	15,000	135.00/M	02016G153ZAT2A
			22000pF	+80 -20%	0.33	478-1054-1-ND	8.25	48.75	140.63	478-1054-2-ND	15,000	135.00/M	02016G223ZAT2A
			33000pF	+80 -20%	0.33	478-1055-1-ND	8.25	48.75	140.63	478-1055-2-ND	15,000	135.00/M	02016G333ZAT2A
			47000pF	+80 -20%	0.33	478-1056-1-ND	6.60	39.00	112.50	478-1056-2-ND	15,000	108.00/M	02016G473ZAT2A
0402	C0G (NP0)	50V	.5pF	±.25pF	0.56	478-1057-1-ND	3.30	19.50	56.25	478-1057-2-ND	10,000	54.00/M	04025A0R5CAT2A
			.5pF	±.10pF	0.56	478-3656-1-ND	3.63	21.45	61.88	478-3656-2-ND	10,000	59.00/M	04025A0R5BAT2A
			1.0pF	±.25pF	0.56	478-1058-1-ND	1.10	6.50	18.75	478-1058-2-ND	10,000	18.00/M	04025A1R0CAT2A
			1.0pF	±.10pF	0.56	478-3659-1-ND	3.63	21.45	61.88	478-3659-2-ND	10,000	59.00/M	04025A1R0BAT2A
			1.2pF	±.25pF	0.56	478-1059-1-ND	4.40	26.00	75.00	478-1059-2-ND	10,000	72.00/M	04025A1R2CAT2A
			1.5pF	±.25pF	0.56	478-1060-1-ND	1.10	6.50	18.75	478-1060-2-ND	10,000	18.00/M	04025A1R5CAT2A
			1.8pF	±.25pF	0.56	478-1061-1-ND	3.30	19.50	56.25	478-1061-2-ND	10,000	54.00/M	04025A1R8CAT2A
			2.2pF	±.25pF	0.56	478-1062-1-ND	3.30	19.50	56.25	478-1062-2-ND	10,000	54.00/M	04025A2R2CAT2A
			2.7pF	±.25pF	0.56	478-1063-1-ND	3.30	19.50	56.25	478-1063-2-ND	10,000	54.00/M	04025A2R7CAT2A
			3.3pF	±.25pF	0.56	478-1064-1-ND	3.30	19.50	56.25	478-1064-2-ND	10,000	54.00/M	04025A3R3CAT2A
			3.9pF	±.25pF	0.56	478-1065-1-ND	3.30	19.50	56.25	478-1065-2-ND	10,000	54.00/M	04025A3R9CAT2A
			4.7pF	±.25pF	0.56	478-1066-1-ND	3.30	19.50	56.25	478-1066-2-ND	10,000	54.00/M	04025A4R7CAT2A
			5.6pF	±.25pF	0.56	478-1067-1-ND	3.30	19.50	56.25	478-1067-2-ND	10,000	54.00/M	04025A5R6CAT2A
			6.8pF	±.25pF	0.56	478-1068-1-ND	3.30	19.50	56.25	478-1068-2-ND	10,000	54.00/M	04025A6R8CAT2A
			8.2pF	±.25pF	0.56	478-1069-1-ND	3.30	19.50	56.25	478-1069-2-ND	10,000	54.00/M	04025A8R2CAT2A
			10pF	±.25pF	0.56	478-3657-1-ND	3.30	19.50	56.25	478-3657-2-ND	10,000	54.00/M	04025A100CAT2A
			10pF	±5%	0.56	478-1070-1-ND	1.10	6.50	18.75	478-1070-2-ND	10,000	18.00/M	04025A100JAT2A
			12pF	±5%	0.56	478-1071-1-ND	1.10	6.50	18.75	478-1071-2-ND	10,000	18.00/M	04025A120JAT2A
			15pF	±5%	0.56	478-1072-1-ND	1.10	6.50	18.75	478-1072-2-ND	10,000	18.00/M	04025A150JAT2A
			18pF	±5%	0.56	478-1073-1-ND	1.10	6.50	18.75	478-1073-2-ND	10,000	18.00/M	04025A180JAT2A
			22pF	±5%	0.56	478-1074-1-ND	1.10	6.50	18.75	478-1074-2-ND	10,000	18.00/M	04025A220JAT2A
			22pF	±10%	0.56	478-3660-1-ND	3.30	19.50	56.25	478-3660-2-ND	10,000	54.00/M	04025A220KAT2A
			27pF	±5%	0.56	478-1075-1-ND	1.10	6.50	18.75	478-1075-2-ND	10,000	18.00/M	04025A270JAT2A
			33pF	±5%	0.56	478-1076-1-ND	1.10	6.50	18.75	478-1076-2-ND	10,000	18.00/M	04025A330JAT2A
			39pF	±5%	0.56	478-1077-1-ND	1.10	6.50	18.75	478-1077-2-ND	10,000	18.00/M	04025A390JAT2A
			47pF	±5%	0.56	478-1078-1-ND	1.10	6.50	18.75	478-1078-2-ND	10,000	18.00/M	04025A470JAT2A
			56pF	±5%	0.56	478-1079-1-ND	1.10	6.50	18.75	478-1079-2-ND	10,000	18.00/M	04025A560JAT2A
			68pF	±5%	0.56	478-1080-1-ND	1.10	6.50	18.75	478-1080-2-ND	10,000	18.00/M	04025A680JAT2A
			82pF	±5%	0.56	478-1081-1-ND	3.30	19.50	56.25	478-1081-2-ND	10,000	54.00/M	04025A820JAT2A

(Continued)

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Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
0402	C0G (NP0)	50V	100pF	±5%	0.56	478-1082-1-ND	1.10	6.50	18.75	478-1082-2-ND	10,000	18.00/M	04025A101JAT2A
			100pF	±1%	0.56	478-3658-1-ND	8.80	52.00	150.00	478-3658-2-ND	10,000	144.00/M	04025A101FAT2A
			120pF	±5%	0.56	478-1083-1-ND	1.10	6.50	18.75	478-1083-2-ND	10,000	18.00/M	04025A121JAT2A
			150pF	±5%	0.56	478-1084-1-ND	1.10	6.50	18.75	478-1084-2-ND	10,000	18.00/M	04025A151JAT2A
			180pF	±5%	0.56	478-1085-1-ND	1.10	6.50	18.75	478-1085-2-ND	10,000	18.00/M	04025A181JAT2A
	X7R	50V	100pF	±10%	0.56	478-1089-1-ND	2.20	13.00	37.50	478-1089-2-ND	10,000	36.00/M	04025C101KAT2A
			120pF	±10%	0.56	478-1090-1-ND	1.10	6.50	18.75	478-1090-2-ND	10,000	18.00/M	04025C121KAT2A
			150pF	±10%	0.56	478-1091-1-ND	1.10	6.50	18.75	478-1091-2-ND	10,000	18.00/M	04025C151KAT2A
			180pF	±10%	0.56	478-1092-1-ND	1.10	6.50	18.75	478-1092-2-ND	10,000	18.00/M	04025C181KAT2A
			220pF	±10%	0.56	478-1093-1-ND	3.30	19.50	56.25	478-1093-2-ND	10,000	54.00/M	04025C221KAT2A
			270pF	±10%	0.56	478-1094-1-ND	3.30	19.50	56.25	478-1094-2-ND	10,000	54.00/M	04025C271KAT2A
			330pF	±10%	0.56	478-1095-1-ND	3.30	19.50	56.25	478-1095-2-ND	10,000	54.00/M	04025C331KAT2A
			330pF	±5%	0.56	478-3662-1-ND	4.18	24.70	71.25	478-3662-2-ND	10,000	68.00/M	04025C331JAT2A
			390pF	±10%	0.56	478-1096-1-ND	1.10	6.50	18.75	478-1096-2-ND	10,000	18.00/M	04025C391KAT2A
			470pF	±10%	0.56	478-1097-1-ND	3.30	19.50	56.25	478-1097-2-ND	10,000	54.00/M	04025C471KAT2A
			470pF	±5%	0.56	478-3663-1-ND	4.18	24.70	71.25	478-3663-2-ND	10,000	68.00/M	04025C471JAT2A
			560pF	±10%	0.56	478-1098-1-ND	1.10	6.50	18.75	478-1098-2-ND	10,000	18.00/M	04025C561KAT2A
			680pF	±10%	0.56	478-1099-1-ND	1.10	6.50	18.75	478-1099-2-ND	10,000	18.00/M	04025C681KAT2A
			820pF	±10%	0.56	478-1100-1-ND	1.10	6.50	18.75	478-1100-2-ND	10,000	18.00/M	04025C821KAT2A
			1000pF	±5%	0.56	478-3661-1-ND	4.18	24.70	71.25	478-3661-2-ND	10,000	68.00/M	04025C102JAT2A
			1000pF	±10%	0.56	478-1101-1-ND	.61	3.58	10.31	478-1101-2-ND	10,000	10.00/M	04025C102KAT2A
			1200pF	±10%	0.56	478-1102-1-ND	1.10	6.50	18.75	478-1102-2-ND	10,000	18.00/M	04025C122KAT2A
			1500pF	±10%	0.56	478-1103-1-ND	3.30	19.50	56.25	478-1103-2-ND	10,000	54.00/M	04025C152KAT2A
			1800pF	±10%	0.56	478-1104-1-ND	3.30	19.50	56.25	478-1104-2-ND	10,000	54.00/M	04025C182KAT2A
			2200pF	±10%	0.56	478-1105-1-ND	2.75	16.25	46.88	478-1105-2-ND	10,000	45.00/M	04025C222KAT2A
			2700pF	±10%	0.56	478-1106-1-ND	3.30	19.50	56.25	478-1106-2-ND	10,000	54.00/M	04025C272KAT2A
			3300pF	±10%	0.56	478-1107-1-ND	1.10	6.50	18.75	478-1107-2-ND	10,000	18.00/M	04025C332KAT2A
			3900pF	±10%	0.56	478-1108-1-ND	3.30	19.50	56.25	478-1108-2-ND	10,000	54.00/M	04025C392KAT2A
			4700pF	±10%	0.56	478-1109-1-ND	1.10	6.50	18.75	478-1109-2-ND	10,000	18.00/M	04025C472KAT2A
			5600pF	±10%	0.56	478-1110-1-ND	2.20	13.00	37.50	478-1110-2-ND	10,000	36.00/M	04025C562KAT2A
			6800pF	±10%	0.56	478-1111-1-ND	2.20	13.00	37.50	478-1111-2-ND	10,000	36.00/M	04025C682KAT2A
			8200pF	±10%	0.56	478-1112-1-ND	2.20	13.00	37.50	478-1112-2-ND	10,000	36.00/M	04025C822KAT2A
		25V	10000pF	±10%	0.56	478-1113-1-ND	3.30	19.50	56.25	478-1113-2-ND	10,000	54.00/M	04023C103KAT2A
		16V	10000pF	±5%	0.56	478-3664-1-ND	4.18	24.70	71.25	478-3664-2-ND	10,000	68.00/M	0402YC103JAT2A
			10000pF	±20%	0.56	478-3665-1-ND	3.08	18.20	52.50	478-3665-2-ND	10,000	50.00/M	0402YC103MAT2A
			10000pF	±10%	0.56	478-1114-1-ND	.55	3.25	9.38	478-1114-2-ND	10,000	9.00/M	0402YC103KAT2A
			12000pF	±10%	0.56	478-1115-1-ND	1.10	6.50	18.75	478-1115-2-ND	10,000	18.00/M	0402YC123KAT2A
			15000pF	±10%	0.56	478-1116-1-ND	1.10	6.50	18.75	478-1116-2-ND	10,000	18.00/M	0402YC153KAT2A
			18000pF	±10%	0.56	478-1117-1-ND	1.10	6.50	18.75	478-1117-2-ND	10,000	18.00/M	0402YC183KAT2A
			22000pF	±5%	0.56	478-3666-1-ND	4.18	24.70	71.25	478-3666-2-ND	10,000	68.00/M	0402YC223JAT2A
			22000pF	±10%	0.56	478-1118-1-ND	1.10	6.50	18.75	478-1118-2-ND	10,000	18.00/M	0402YC223KAT2A
		10V	27000pF	±10%	0.56	478-1119-1-ND	4.18	24.70	71.25	478-1119-2-ND	10,000	68.00/M	0402ZC273KAT2A
			33000pF	±10%	0.56	478-1120-1-ND	4.40	26.00	75.00	478-1120-2-ND	10,000	72.00/M	0402ZC333KAT2A
			39000pF	±10%	0.56	478-1121-1-ND	4.40	26.00	75.00	478-1121-2-ND	10,000	72.00/M	0402ZC393KAT2A
	X5R	16V	27000pF	±10%	0.56	478-1122-1-ND	1.10	6.50	18.75	478-1122-2-ND	10,000	18.00/M	0402YD273KAT2A
			33000pF	±10%	0.56	478-1123-1-ND	1.10	6.50	18.75	478-1123-2-ND	10,000	18.00/M	0402YD333KAT2A
			39000pF	±10%	0.56	478-1124-1-ND	1.10	6.50	18.75	478-1124-2-ND	10,000	18.00/M	0402YD393KAT2A
			47000pF	±10%	0.56	478-1125-1-ND	1.10	6.50	18.75	478-1125-2-ND	10,000	18.00/M	0402YD473KAT2A
			.10µF	±10%	0.56	478-1126-1-ND	2.20	13.00	37.50	478-1126-2-ND	10,000	36.00/M	0402YD104KAT2A
		10V	47000pF	±10%	0.56	478-3667-1-ND	8.25	48.75	140.63	478-3667-2-ND	10,000	135.00/M	0402ZD473KAT2A
			68000pF	±10%	0.56	478-1128-1-ND	1.10	6.50	18.75	478-1128-2-ND	10,000	18.00/M	0402ZD683KAT2A
			.10µF	±10%	0.56	478-1129-1-ND	.77	4.55	13.13	478-1129-2-ND	10,000	13.00/M	0402ZD104KAT2A
			1.0µF	±10%	0.56	478-4596-1-ND	4.03	33.56	111.88	478-4596-2-ND	10,000	125.00/M	0402ZD105KAT2A
		6.3V	.22µF	±10%	0.56	478-1132-1-ND	2.75	16.25	46.88	478-1132-2-ND	10,000	45.00/M	04026D224KAT2A
			1.0µF	±10%	0.56	478-2583-1-ND	3.30	19.50	56.25	478-2583-2-ND	10,000	54.00/M	04026D105KAT2A
		4.0V	2.2µF	±20%	0.56	478-4524-1-ND	3.60	30.00	100.00	478-4524-2-ND	10,000	112.00/M	04024D225MAT2A
	Y5V	50V	10000pF	+80 -20%	0.56	478-1133-1-ND	2.20	13.00	37.50	478-1133-2-ND	10,000	36.00/M	04025G103ZAT2A
			22000pF	+80 -20%	0.56	478-1134-1-ND	2.20	13.00	37.50	478-1134-2-ND	10,000	36.00/M	04025G223ZAT2A
		16V	47000pF	+80 -20%	0.56	478-1136-1-ND	2.20	13.00	37.50	478-1136-2-ND	10,000	36.00/M	0402YG473ZAT2A
			68000pF	+80 -20%	0.56	478-1137-1-ND	2.20	13.00	37.50	478-1137-2-ND	10,000	36.00/M	0402YG683ZAT2A
			.10µF	+80 -20%	0.56	478-1138-1-ND	1.10	6.50	18.75	478-1138-2-ND	10,000	18.00/M	0402YG104ZAT2A
		10V	.22µF	+80 -20%	0.56	478-1139-1-ND	2.20	13.00	37.50	478-1139-2-ND	10,000	36.00/M	0402ZG224ZAT2A
0603	C0G (NP0)	100V	1.0pF	±.10pF	0.86	478-3677-1-ND	9.90	58.50	168.75	478-3677-2-ND	4,000	162.00/M	06031A1R0BAT2A
			2.0pF	±.25pF	0.86	478-3685-1-ND	2.20	13.00	37.50	478-3685-2-ND	4,000	36.00/M	06031A2R0CAT2A
			2.2pF	±.10pF	0.86	478-3686-1-ND	9.90	58.50	168.75	478-3686-2-ND	4,000	162.00/M	06031A2R2BAT2A
			3.0pF	±.25pF	0.86	478-3690-1-ND	2.20	13.00	37.50	478-3690-2-ND	4,000	36.00/M	06031A3R0CAT2A
			4.0pF	±.25pF	0.86	478-3693-1-ND	2.20	13.00	37.50	478-3693-2-ND	4,000	36.00/M	06031A4R0CAT2A
			4.7pF	±.10pF	0.86	478-3694-1-ND	9.90	58.50	168.75	478-3694-2-ND	4,000	162.00/M	06031A4R7BAT2A
			5.0pF	±.25pF	0.86	478-3696-1-ND	2.20	13.00	37.50	478-3696-2-ND	4,000	36.00/M	06031A5R0CAT2A
			8.0pF	±.25pF	0.86	478-3697-1-ND	2.20	13.00	37.50	478-3697-2-ND	4,000	36.00/M	06031A8R0CAT2A
			10pF	±.25pF	0.86	478-3668-1-ND	4.29	25.35	73.13	478-3668-2-ND	4,000	70.00/M	06031A100CAT2A
			10pF	±5%	0.86	478-1140-1-ND	2.09	12.35	35.63	478-1140-2-ND	4,000	34.00/M	06031A100JAT2A
			10pF	±2%	0.86	478-3669-1-ND	5.50	32.50	93.75	478-3669-2-ND	4,000	90.00/M	06031A100GAT2A
			10pF	±10%	0.86	478-3670-1-ND	1.98	11.70	33.75	478-3670-2-ND	4,000	32.00/M	06031A100KAT2A
			13pF	±5%	0.86	478-3674-1-ND	2.09	12.35	35.63	478-3674-2-ND	4,000	34.00/M	06031A130JAT2A
			15pF	±5%	0.86	478-1141-1-ND	1.10	6.50	18.75	478-1141-2-ND	4,000	18.00/M	06031A150JAT2A
			15pF	±10%	0.86	478-3675-1-ND	1.98	11.70	33.75	478-3675-2-ND	4,000	32.00/M	06031A150KAT2A
			20pF	±5%	0.86	478-3678-1-ND	2.09	12.35	35.63	478-3678-2-ND	4,000	34.00/M	06031A200JAT2A
			22pF	±5%	0.86	478-1142-1-ND	1.10	6.50	18.75	478-1142-2-ND	4,000	18.00/M	06031A220JAT2A
			22pF	±10%	0.86	478-3679-1-ND	1.98	11.70	33.75	478-3679-2-ND	4,000	32.00/M	06031A220KAT2A
			27pF	±1%	0.86	478-3681-1-ND	6.60	39.00	112.50	478-3681-2-ND	4,000	108.00/M	06031A270FAT2A
			27pF	±2%	0.86	478-3682-1-ND	5.50	32.50	93.75	478-3682-2-ND	4,000	90.00/M	06031A270GAT2A
			27pF	±10%	0.86	478-3683-1-ND	1.98	11.70	33.75	478-3683-2-ND	4,000	32.00/M	06031A270KAT2A
			30pF	±5%	0.86	478-3687-1-ND	2.09	12.35	35.63	478-3687-2-ND	4,000	34.00/M	06031A300JAT2A
			33pF	±1%	0.86	478-3688-1-ND	6.60	39.00	112.50	478-3688-2-ND	4,000	108.00/M	06031A330FAT2A
			33pF	±10%	0.86	478-3689-1-ND	1.98	11.70	33.75	478-3689-2-ND	4,000	32.00/M	06031A330KAT2A
			33pF	±5%	0.86	478-1143-1-ND	1.10	6.50	18.75	478-1143-2-ND	4,000	18.00/M	06031A330JAT2A
			47pF	±10%	0.86	478-3692-1-ND	1.98	11.70	33.75	478-3692-2-ND	4,000	32.00/M	06031A470KAT2A
			47pF	±1%	0.86	478-3691-1-ND	6.60	39.00	112.50	478-3691-2-ND	4,000	108.00/M	06031A470FAT2A
			51pF	±5%	0.86	478-3695-1-ND	2.09	12.35	35.63	478-3695-2-ND	4,000	34.00/M	06031A510JAT2A
			47pF	±5%	0.86	478-1144-1-ND	1.10	6.50	18.75	478-1144-2-ND	4,000	18.00/M	06031A470JAT2A
			68pF	±5%	0.86	478-1145-1-ND	1.10	6.50	18.75	478-1145-2-ND	4,000	18.00/M	06031A680JAT2A
			100pF	±5%	0.86	478-1146-1-ND	1.10	6.50	18.75	478-1146-2-ND	4,000	18.00/M	06031A101JAT2A
			100pF	±1%	0.86	478-3671-1-ND	6.60	39.00	112.50	478-3671-2-ND	4,000	108.00/M	06031A101FAT2A
			100pF	±10%	0.86	478-3672-1-ND	1.98	11.70	33.75	478-3672-2-ND	4,000	32.00/M	06031A101KAT2A
			120pF	±5%	0.86	478-3673-1-ND	2.09	12.35	35.63	478-3673-2-ND	4,000	34.00/M	06031A121JAT2A
			150pF	±5%	0.86	478-1147-1-ND	4.95	29.25	84.38	478-1147-2-ND	4,000	81.00/M	06031A151JAT2A
			150pF	±10%	0.86	478-3676-1-ND	2.20	13.00	37.50	478-3676-2-ND	4,000	36.00/M	06031A151KAT2A

(Continued)

AVX Multilayer Ceramic Chip Capacitors *(Cont.)*

Digi-Reel® RoHS

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
0603	C0G (NP0)	100V	220pF	±10%	0.86	478-3680-1-ND	2.20	13.00	37.50	478-3680-2-ND	4,000	36.00/M	06031A221KAT2A
			220pF	±5%	0.86	478-1148-1-ND	2.31	13.65	39.38	478-1148-2-ND	4,000	38.00/M	06031A221JAT2A
			270pF	±5%	0.86	478-3684-1-ND	4.18	24.70	71.25	478-3684-2-ND	4,000	68.00/M	06031A271JAT2A
			330pF	±5%	0.86	478-1149-1-ND	4.18	24.70	71.25	478-1149-2-ND	4,000	68.00/M	06031A331JAT2A
		50V	.5pF	±.25pF	0.86	478-1150-1-ND	2.09	12.35	35.63	478-1150-2-ND	4,000	34.00/M	06035A0R5CAT2A
			1.0pF	±.25pF	0.86	478-1151-1-ND	2.09	12.35	35.63	478-1151-2-ND	4,000	34.00/M	06035A1R0CAT2A
			1.2pF	±.25pF	0.86	478-1152-1-ND	2.09	12.35	35.63	478-1152-2-ND	4,000	34.00/M	06035A1R2CAT2A
			1.5pF	±.25pF	0.86	478-1153-1-ND	2.09	12.35	35.63	478-1153-2-ND	4,000	34.00/M	06035A1R5CAT2A
			1.8pF	±.25pF	0.86	478-1154-1-ND	2.09	12.35	35.63	478-1154-2-ND	4,000	34.00/M	06035A1R8CAT2A
			2.2pF	±.25pF	0.86	478-1155-1-ND	2.09	12.35	35.63	478-1155-2-ND	4,000	34.00/M	06035A2R2CAT2A
			2.7pF	±.25pF	0.86	478-1156-1-ND	2.09	12.35	35.63	478-1156-2-ND	4,000	34.00/M	06035A2R7CAT2A
			3.3pF	±.25pF	0.86	478-1157-1-ND	2.09	12.35	35.63	478-1157-2-ND	4,000	34.00/M	06035A3R3CAT2A
			3.9pF	±.25pF	0.86	478-1158-1-ND	2.09	12.35	35.63	478-1158-2-ND	4,000	34.00/M	06035A3R9CAT2A
			4.7pF	±.25pF	0.86	478-1159-1-ND	2.09	12.35	35.63	478-1159-2-ND	4,000	34.00/M	06035A4R7CAT2A
			5.6pF	±.25pF	0.86	478-1160-1-ND	2.09	12.35	35.63	478-1160-2-ND	4,000	34.00/M	06035A5R6CAT2A
			6.8pF	±.25pF	0.86	478-1161-1-ND	.99	5.85	16.88	478-1161-2-ND	4,000	16.00/M	06035A6R8CAT2A
			8.2pF	±.25pF	0.86	478-1162-1-ND	2.09	12.35	35.63	478-1162-2-ND	4,000	34.00/M	06035A8R2CAT2A
			10pF	±5%	0.86	478-1163-1-ND	.99	5.85	16.88	478-1163-2-ND	4,000	16.00/M	06035A100JAT2A
			12pF	±5%	0.86	478-1164-1-ND	1.65	9.75	28.13	478-1164-2-ND	4,000	27.00/M	06035A120JAT2A
			15pF	±5%	0.86	478-1165-1-ND	1.10	6.50	18.75	478-1165-2-ND	4,000	18.00/M	06035A150JAT2A
			18pF	±5%	0.86	478-1166-1-ND	2.09	12.35	35.63	478-1166-2-ND	4,000	34.00/M	06035A180JAT2A
			22pF	±5%	0.86	478-1167-1-ND	.72	4.23	12.19	478-1167-2-ND	4,000	12.00/M	06035A220JAT2A
			27pF	±5%	0.86	478-1168-1-ND	1.10	6.50	18.75	478-1168-2-ND	4,000	18.00/M	06035A270JAT2A
			33pF	±5%	0.86	478-1169-1-ND	.99	5.85	16.88	478-1169-2-ND	4,000	16.00/M	06035A330JAT2A
			39pF	±5%	0.86	478-1170-1-ND	2.09	12.35	35.63	478-1170-2-ND	4,000	34.00/M	06035A390JAT2A
			47pF	±5%	0.86	478-1171-1-ND	1.10	6.50	18.75	478-1171-2-ND	4,000	18.00/M	06035A470JAT2A
			56pF	±5%	0.86	478-1172-1-ND	2.09	12.35	35.63	478-1172-2-ND	4,000	34.00/M	06035A560JAT2A
			68pF	±5%	0.86	478-1173-1-ND	2.20	13.00	37.50	478-1173-2-ND	4,000	36.00/M	06035A680JAT2A
			82pF	±5%	0.86	478-1174-1-ND	2.09	12.35	35.63	478-1174-2-ND	4,000	34.00/M	06035A820JAT2A
			100pF	±5%	0.86	478-1175-1-ND	.72	4.23	12.19	478-1175-2-ND	4,000	12.00/M	06035A101JAT2A
			100pF	±10%	0.86	478-3717-1-ND	1.98	11.70	33.75	478-3717-2-ND	4,000	32.00/M	06035A101KAT2A
			120pF	±5%	0.86	478-1176-1-ND	2.20	13.00	37.50	478-1176-2-ND	4,000	36.00/M	06035A121JAT2A
			150pF	±5%	0.86	478-1177-1-ND	1.10	6.50	18.75	478-1177-2-ND	4,000	18.00/M	06035A151JAT2A
			180pF	±5%	0.86	478-1178-1-ND	1.10	6.50	18.75	478-1178-2-ND	4,000	18.00/M	06035A181JAT2A
			220pF	±5%	0.86	478-1179-1-ND	.99	5.85	16.88	478-1179-2-ND	4,000	16.00/M	06035A221JAT2A
			220pF	±1%	0.86	478-3719-1-ND	6.60	39.00	112.50	478-3719-2-ND	4,000	108.00/M	06035A221FAT2A
			270pF	±5%	0.86	478-1180-1-ND	1.10	6.50	18.75	478-1180-2-ND	4,000	18.00/M	06035A271JAT2A
			330pF	±5%	0.86	478-1181-1-ND	2.20	13.00	37.50	478-1181-2-ND	4,000	36.00/M	06035A331JAT2A
			390pF	±5%	0.86	478-1182-1-ND	2.20	13.00	37.50	478-1182-2-ND	4,000	36.00/M	06035A391JAT2A
			470pF	±5%	0.86	478-1183-1-ND	.88	5.20	15.00	478-1183-2-ND	4,000	14.00/M	06035A471JAT2A
			470pF	±10%	0.86	478-3720-1-ND	2.97	17.55	50.63	478-3720-2-ND	4,000	49.00/M	06035A471KAT2A
			560pF	±5%	0.86	478-1184-1-ND	2.20	13.00	37.50	478-1184-2-ND	4,000	36.00/M	06035A561JAT2A
			1000pF	±10%	0.86	478-3718-1-ND	3.52	20.80	60.00	478-3718-2-ND	4,000	58.00/M	06035A102KAT2A
	X7R	200V	220pF	±10%	0.86	478-1190-1-ND	1.10	6.50	18.75	478-1190-2-ND	4,000	18.00/M	06032C221KAT2A
			330pF	±10%	0.86	478-1191-1-ND	1.10	6.50	18.75	478-1191-2-ND	4,000	18.00/M	06032C331KAT2A
			470pF	±10%	0.86	478-1192-1-ND	1.10	6.50	18.75	478-1192-2-ND	4,000	18.00/M	06032C471KAT2A
			680pF	±10%	0.86	478-1193-1-ND	1.10	6.50	18.75	478-1193-2-ND	4,000	18.00/M	06032C681KAT2A
			1000pF	±10%	0.86	478-1194-1-ND	1.10	6.50	18.75	478-1194-2-ND	4,000	18.00/M	06032C102KAT2A
		100V	220pF	±10%	0.86	478-1195-1-ND	1.10	6.50	18.75	478-1195-2-ND	4,000	18.00/M	06031C221KAT2A
			330pF	±10%	0.86	478-1196-1-ND	1.10	6.50	18.75	478-1196-2-ND	4,000	18.00/M	06031C331KAT2A
			330pF	±5%	0.86	478-3707-1-ND	2.97	17.55	50.63	478-3707-2-ND	4,000	49.00/M	06031C331JAT2A
			470pF	±10%	0.86	478-1197-1-ND	1.10	6.50	18.75	478-1197-2-ND	4,000	18.00/M	06031C471KAT2A
			470pF	±5%	0.86	478-3709-1-ND	2.97	17.55	50.63	478-3709-2-ND	4,000	49.00/M	06031C471JAT2A
			680pF	±10%	0.86	478-1198-1-ND	1.10	6.50	18.75	478-1198-2-ND	4,000	18.00/M	06031C681KAT2A
			680pF	±5%	0.86	478-3712-1-ND	2.97	17.55	50.63	478-3712-2-ND	4,000	49.00/M	06031C681JAT2A
			1000pF	±5%	0.86	478-3698-1-ND	2.97	17.55	50.63	478-3698-2-ND	4,000	49.00/M	06031C102JAT2A
			1000pF	±20%	0.86	478-3699-1-ND	1.98	11.70	33.75	478-3699-2-ND	4,000	32.00/M	06031C102MAT2A
			1000pF	±10%	0.86	478-1199-1-ND	.77	4.55	13.13	478-1199-2-ND	4,000	13.00/M	06031C102KAT2A
			1200pF	±5%	0.86	478-3702-1-ND	2.97	17.55	50.63	478-3702-2-ND	4,000	49.00/M	06031C122JAT2A
			1500pF	±10%	0.86	478-1200-1-ND	2.09	12.35	35.63	478-1200-2-ND	4,000	34.00/M	06031C152KAT2A
			1500pF	±5%	0.86	478-3703-1-ND	2.97	17.55	50.63	478-3703-2-ND	4,000	49.00/M	06031C152JAT2A
			1800pF	±5%	0.86	478-3704-1-ND	2.97	17.55	50.63	478-3704-2-ND	4,000	49.00/M	06031C182JAT2A
			2200pF	±10%	0.86	478-1201-1-ND	2.09	12.35	35.63	478-1201-2-ND	4,000	34.00/M	06031C222KAT2A
			2200pF	±5%	0.86	478-3705-1-ND	2.97	17.55	50.63	478-3705-2-ND	4,000	49.00/M	06031C222JAT2A
			2700pF	±5%	0.86	478-3706-1-ND	2.97	17.55	50.63	478-3706-2-ND	4,000	49.00/M	06031C272JAT2A
			3300pF	±10%	0.86	478-1202-1-ND	2.09	12.35	35.63	478-1202-2-ND	4,000	34.00/M	06031C332KAT2A
			3300pF	±5%	0.86	478-3708-1-ND	2.97	17.55	50.63	478-3708-2-ND	4,000	49.00/M	06031C332JAT2A
			4700pF	±10%	0.86	478-1203-1-ND	2.09	12.35	35.63	478-1203-2-ND	4,000	34.00/M	06031C472KAT2A
			4700pF	±5%	0.86	478-3710-1-ND	2.97	17.55	50.63	478-3710-2-ND	4,000	49.00/M	06031C472JAT2A
			5600pF	±5%	0.86	478-3711-1-ND	2.97	17.55	50.63	478-3711-2-ND	4,000	49.00/M	06031C562JAT2A
			6800pF	±10%	0.86	478-1204-1-ND	2.09	12.35	35.63	478-1204-2-ND	4,000	34.00/M	06031C682KAT2A
			10000pF	±5%	0.86	478-3700-1-ND	2.97	17.55	50.63	478-3700-2-ND	4,000	49.00/M	06031C103JAT2A
			10000pF	±20%	0.86	478-3701-1-ND	3.63	21.45	61.88	478-3701-2-ND	4,000	59.00/M	06031C103MAT2A
			10000pF	±10%	0.86	478-1205-1-ND	4.51	26.65	76.88	478-1205-2-ND	4,000	74.00/M	06031C103KAT2A
		50V	180pF	±10%	0.86	478-1206-1-ND	2.09	12.35	35.63	478-1206-2-ND	4,000	34.00/M	06035C181KAT2A
			220pF	±10%	0.86	478-1207-1-ND	2.09	12.35	35.63	478-1207-2-ND	4,000	34.00/M	06035C221KAT2A
			270pF	±10%	0.86	478-1208-1-ND	2.09	12.35	35.63	478-1208-2-ND	4,000	34.00/M	06035C271KAT2A
			330pF	±10%	0.86	478-1209-1-ND	2.09	12.35	35.63	478-1209-2-ND	4,000	34.00/M	06035C331KAT2A
			390pF	±10%	0.86	478-1210-1-ND	2.09	12.35	35.63	478-1210-2-ND	4,000	34.00/M	06035C391KAT2A
			470pF	±10%	0.86	478-1211-1-ND	.66	3.90	11.25	478-1211-2-ND	4,000	11.00/M	06035C471KAT2A
			560pF	±10%	0.86	478-1212-1-ND	2.09	12.35	35.63	478-1212-2-ND	4,000	34.00/M	06035C561KAT2A
			680pF	±10%	0.86	478-1213-1-ND	2.09	12.35	35.63	478-1213-2-ND	4,000	34.00/M	06035C681KAT2A
			820pF	±10%	0.86	478-1214-1-ND	2.09	12.35	35.63	478-1214-2-ND	4,000	34.00/M	06035C821KAT2A
			1000pF	±10%	0.86	478-1215-1-ND	.55	3.25	9.38	478-1215-2-ND	4,000	9.00/M	06035C102KAT2A
			1200pF	±10%	0.86	478-1216-1-ND	1.10	6.50	18.75	478-1216-2-ND	4,000	18.00/M	06035C122KAT2A
			1500pF	±10%	0.86	478-1217-1-ND	1.10	6.50	18.75	478-1217-2-ND	4,000	18.00/M	06035C152KAT2A
			1800pF	±10%	0.86	478-1218-1-ND	1.10	6.50	18.75	478-1218-2-ND	4,000	18.00/M	06035C182KAT2A
			2200pF	±10%	0.86	478-1219-1-ND	1.10	6.50	18.75	478-1219-2-ND	4,000	18.00/M	06035C222KAT2A
			2700pF	±10%	0.86	478-1220-1-ND	1.10	6.50	18.75	478-1220-2-ND	4,000	18.00/M	06035C272KAT2A
			3300pF	±10%	0.86	478-1221-1-ND	2.20	13.00	37.50	478-1221-2-ND	4,000	36.00/M	06035C332KAT2A
			3900pF	±10%	0.86	478-1222-1-ND	1.10	6.50	18.75	478-1222-2-ND	4,000	18.00/M	06035C392KAT2A
			4700pF	±10%	0.86	478-1223-1-ND	2.09	12.35	35.63	478-1223-2-ND	4,000	34.00/M	06035C472KAT2A
			5600pF	±10%	0.86	478-1224-1-ND	1.10	6.50	18.75	478-1224-2-ND	4,000	18.00/M	06035C562KAT2A
			6800pF	±10%	0.86	478-1225-1-ND	2.09	12.35	35.63	478-1225-2-ND	4,000	34.00/M	06035C682KAT2A
			8200pF	±10%	0.86	478-1226-1-ND	1.10	6.50	18.75	478-1226-2-ND	4,000	18.00/M	06035C822KAT2A
			10000pF	±10%	0.86	478-1227-1-ND	.55	3.25	9.38	478-1227-2-ND	4,000	9.00/M	06035C103KAT2A
			12000pF	±10%	0.86	478-1228-1-ND	1.10	6.50	18.75	478-1228-2-ND	4,000	18.00/M	06035C123KAT2A
			15000pF	±10%	0.86	478-1229-1-ND	1.10	6.50	18.75	478-1229-2-ND	4,000	18.00/M	06035C153KAT2A

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Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
0603	X7R	50V	15000pF	±5%	0.86	478-3721-1-ND	3.85	22.75	65.63	478-3721-2-ND	4,000	63.00/M	06035C153JAT2A
			18000pF	±10%	0.86	478-1230-1-ND	1.10	6.50	18.75	478-1230-2-ND	4,000	18.00/M	06035C183KAT2A
			22000pF	±5%	0.86	478-3722-1-ND	3.85	22.75	65.63	478-3722-2-ND	4,000	63.00/M	06035C223JAT2A
			22000pF	±10%	0.86	478-1231-1-ND	1.10	6.50	18.75	478-1231-2-ND	4,000	18.00/M	06035C223KAT2A
			27000pF	±10%	0.86	478-1232-1-ND	1.10	6.50	18.75	478-1232-2-ND	4,000	18.00/M	06035C273KAT2A
			33000pF	±5%	0.86	478-3723-1-ND	3.85	22.75	65.63	478-3723-2-ND	4,000	63.00/M	06035C333JAT2A
			33000pF	±10%	0.86	478-1233-1-ND	1.10	6.50	18.75	478-1233-2-ND	4,000	18.00/M	06035C333KAT2A
			39000pF	±10%	0.86	478-1234-1-ND	1.10	6.50	18.75	478-1234-2-ND	4,000	18.00/M	06035C393KAT2A
		25V	39000pF	±10%	0.86	478-3715-1-ND	4.29	25.35	73.13	478-3715-2-ND	4,000	70.00/M	06033C393KAT2A
			47000pF	±5%	0.86	478-3716-1-ND	6.16	36.40	105.00	478-3716-2-ND	4,000	101.00/M	06033C473JAT2A
			47000pF	±10%	0.86	478-1235-1-ND	1.10	6.50	18.75	478-1235-2-ND	4,000	18.00/M	06033C473KAT2A
			.10µF	±5%	0.86	478-3713-1-ND	4.20	24.83	71.63	478-3713-2-ND	4,000	69.00/M	06033C104JAT2A
			.10µF	±10%	0.86	478-3714-1-ND	4.95	29.25	84.38	478-3714-2-ND	4,000	81.00/M	06033C104KAT2A
		16V	56000pF	±10%	0.86	478-1236-1-ND	1.10	6.50	18.75	478-1236-2-ND	4,000	18.00/M	0603YC563KAT2A
			68000pF	±10%	0.86	478-1237-1-ND	1.10	6.50	18.75	478-1237-2-ND	4,000	18.00/M	0603YC683KAT2A
			82000pF	±10%	0.86	478-1238-1-ND	1.10	6.50	18.75	478-1238-2-ND	4,000	18.00/M	0603YC823KAT2A
			.10µF	±10%	0.86	478-1239-1-ND	.66	3.90	11.25	478-1239-2-ND	4,000	11.00/M	0603YC104KAT2A
			.10µF	±20%	0.86	478-3727-1-ND	3.85	22.75	65.63	478-3727-2-ND	4,000	63.00/M	0603YC104MAT2A
			.10µF	±5%	0.86	478-3726-1-ND	4.95	29.25	84.38	478-3726-2-ND	4,000	81.00/M	0603YC104JAT2A
		10V	.12µF	±10%	0.86	478-1240-1-ND	3.85	22.75	65.63	478-1240-2-ND	4,000	63.00/M	0603ZC124KAT2A
			.15µF	±10%	0.86	478-1241-1-ND	3.85	22.75	65.63	478-1241-2-ND	4,000	63.00/M	0603ZC154KAT2A
			.18µF	±10%	0.86	478-1242-1-ND	4.40	26.00	75.00	478-1242-2-ND	4,000	72.00/M	0603ZC184KAT2A
			.22µF	±20%	0.86	478-3729-1-ND	4.40	26.00	75.00	478-3729-2-ND	4,000	72.00/M	0603ZC224MAT2A
			.22µF	±10%	0.86	478-1243-1-ND	1.10	6.50	18.75	478-1243-2-ND	4,000	18.00/M	0603ZC224KAT2A
	X8R	50V	1000pF	±10%	0.86	478-3600-1-ND	3.08	18.20	52.50	478-3600-2-ND	4,000	50.00/M	06035F102K4T2A
			3300pF	±10%	0.86	478-3601-1-ND	3.08	18.20	52.50	478-3601-2-ND	4,000	50.00/M	06035F332K4T2A
			4700pF	±10%	0.86	478-3602-1-ND	3.08	18.20	52.50	478-3602-2-ND	4,000	50.00/M	06035F472K4T2A
			10000pF	±10%	0.86	478-3603-1-ND	2.09	12.35	35.63	478-3603-2-ND	4,000	34.00/M	06035F103K4T2A
			22000pF	±10%	0.86	478-3604-1-ND	3.41	20.15	58.13	478-3604-2-ND	4,000	56.00/M	06035F223K4T2A
			33000pF	±10%	0.86	478-3605-1-ND	4.51	26.65	76.88	478-3605-2-ND	4,000	74.00/M	06035F333K4T2A
			47000pF	±10%	0.86	478-3606-1-ND	4.51	26.65	76.88	478-3606-2-ND	4,000	74.00/M	06035F473K4T2A
		25V	68000pF	±10%	0.86	478-3607-1-ND	5.72	33.80	97.50	478-3607-2-ND	4,000	94.00/M	06033F683K4T2A
	X5R	25V	.10µF	±10%	0.86	478-1244-1-ND	3.85	22.75	65.63	478-1244-2-ND	4,000	63.00/M	06033D104KAT2A
			.22µF	±10%	0.86	478-1245-1-ND	4.95	29.25	84.38	478-1245-2-ND	4,000	81.00/M	06033D224KAT2A
			1.0µF	±20%	0.94	478-4531-1-ND	3.24	27.00	90.00	478-4531-2-ND	4,000	130.00/M	06033D105MAT2A
		16V	.22µF	±10%	0.86	478-1246-1-ND	4.40	26.00	75.00	478-1246-2-ND	4,000	72.00/M	0603YD224KAT2A
			.33µF	±10%	0.86	478-1247-1-ND	1.87	11.05	31.88	478-1247-2-ND	4,000	31.00/M	0603YD334KAT2A
			.47µF	±10%	0.86	478-1248-1-ND	1.87	11.05	31.88	478-1248-2-ND	4,000	31.00/M	0603YD474KAT2A
			1.0µF	±10%	0.86	478-1249-1-ND	2.20	13.00	37.50	478-1249-2-ND	4,000	36.00/M	0603YD105KAT2A
			2.2µF	±20%	0.94	478-4597-1-ND	5.45	45.38	151.25	478-4597-2-ND	4,000	218.00/M	0603YD225MAT2A
		10V	.68µF	±10%	0.86	478-1250-1-ND	2.20	13.00	37.50	478-1250-2-ND	4,000	36.00/M	0603ZD684KAT2A
			1.0µF	±10%	0.86	478-1251-1-ND	1.76	10.40	30.00	478-1251-2-ND	4,000	29.00/M	0603ZD105KAT2A
		6.3V	1.0µF	±10%	0.86	478-2581-1-ND	6.60	39.00	112.50	478-2581-2-ND	4,000	108.00/M	06036D105KAT2A
			2.2µF	±10%	0.86	478-1252-1-ND	4.40	26.00	75.00	478-1252-2-ND	4,000	72.00/M	06036D225KAT2A
			2.2µF	±20%	0.86	478-3725-1-ND	12.10	71.50	206.25	478-3725-2-ND	4,000	198.00/M	06036D225MAT2A
			4.7µF	±20%	0.86	478-2582-1-ND	8.80	52.00	150.00	478-2582-2-ND	4,000	144.00/M	06036D475MAT2A
		4V	4.7µF	±10%	0.94	478-1253-1-ND	6.60	39.00	112.50	478-1253-2-ND	4,000	108.00/M	06034D475KAT2A
	Y5V	50V	10000pF	+80 -20%	0.86	478-1254-1-ND	1.10	6.50	18.75	478-1254-2-ND	4,000	18.00/M	06035G103ZAT2A
			22000pF	+80 -20%	0.86	478-1255-1-ND	1.10	6.50	18.75	478-1255-2-ND	4,000	18.00/M	06035G223ZAT2A
			33000pF	+80 -20%	0.86	478-1256-1-ND	1.10	6.50	18.75	478-1256-2-ND	4,000	18.00/M	06035G333ZAT2A
			47000pF	+80 -20%	0.86	478-1257-1-ND	1.10	6.50	18.75	478-1257-2-ND	4,000	18.00/M	06035G473ZAT2A
			68000pF	+80 -20%	0.86	478-1258-1-ND	1.10	6.50	18.75	478-1258-2-ND	4,000	18.00/M	06035G683ZAT2A
			.10µF	+80 -20%	0.86	478-3724-1-ND	2.86	16.90	48.75	478-3724-2-ND	4,000	47.00/M	06035G104ZAT2A
		25V	.10µF	+80 -20%	0.86	478-1259-1-ND	.61	3.58	10.31	478-1259-2-ND	4,000	10.00/M	06033G104ZAT2A
			.15µF	+80 -20%	0.86	478-1260-1-ND	2.20	13.00	37.50	478-1260-2-ND	4,000	36.00/M	06033G154ZAT2A
			.22µF	+80 -20%	0.86	478-1261-1-ND	1.10	6.50	18.75	478-1261-2-ND	4,000	18.00/M	06033G224ZAT2A
		16V	.22µF	+80 -20%	0.86	478-3728-1-ND	4.84	28.60	82.50	478-3728-2-ND	4,000	79.00/M	0603YG224ZAT2A
			.33µF	+80 -20%	0.86	478-1262-1-ND	2.20	13.00	37.50	478-1262-2-ND	4,000	36.00/M	0603YG334ZAT2A
			.47µF	+80 -20%	0.86	478-1263-1-ND	1.10	6.50	18.75	478-1263-2-ND	4,000	18.00/M	0603YG474ZAT2A
			1.0µF	+80 -20%	0.86	478-1264-1-ND	1.10	6.50	18.75	478-1264-2-ND	4,000	18.00/M	0603YG105ZAT2A
		10V	1.0µF	+80 -20%	0.86	478-1265-1-ND	1.10	6.50	18.75	478-1265-2-ND	4,000	18.00/M	0603ZG105ZAT2A
0805	C0G (NP0)	1000V	10pF	±20%	1.30	478-3995-1-ND	49.50	292.50	843.75	478-3995-2-ND	2,000	810.00/M	0805AA100MAT1A
			33pF	±10%	1.30	478-3997-1-ND	49.50	292.50	843.75	478-3997-2-ND	2,000	810.00/M	0805AA330KAT1A
			100pF	±10%	1.30	478-3996-1-ND	49.50	292.50	843.75	478-3996-2-ND	2,000	810.00/M	0805AA101KAT1A
		200V	10pF	±5%	0.94	478-1266-1-ND	3.71	21.91	63.19	478-1266-2-ND	4,000	61.00/M	08052A100JAT2A
			15pF	±5%	0.94	478-1267-1-ND	2.20	13.00	37.50	478-1267-2-ND	4,000	36.00/M	08052A150JAT2A
			22pF	±5%	0.94	478-1268-1-ND	2.20	13.00	37.50	478-1268-2-ND	4,000	36.00/M	08052A220JAT2A
			33pF	±5%	0.94	478-1269-1-ND	2.20	13.00	37.50	478-1269-2-ND	4,000	36.00/M	08052A330JAT2A
			47pF	±5%	0.94	478-1270-1-ND	2.20	13.00	37.50	478-1270-2-ND	4,000	36.00/M	08052A470JAT2A
			68pF	±5%	0.94	478-1271-1-ND	8.25	48.75	140.63	478-1271-2-ND	4,000	135.00/M	08052A680JAT2A
			100pF	±5%	0.94	478-1272-1-ND	8.25	48.75	140.63	478-1272-2-ND	4,000	135.00/M	08052A101JAT2A
			150pF	±5%	0.94	478-1273-1-ND	8.25	48.75	140.63	478-1273-2-ND	4,000	135.00/M	08052A151JAT2A
			220pF	±5%	0.94	478-1274-1-ND	8.25	48.75	140.63	478-1274-2-ND	4,000	135.00/M	08052A221JAT2A
			330pF	±5%	1.27	478-1275-1-ND	8.25	48.75	140.63	478-1275-2-ND	2,000	135.00/M	08052A331JAT2A
			470pF	±5%	1.27	478-1276-1-ND	3.96	23.40	67.50	478-1276-2-ND	2,000	65.00/M	08052A471JAT2A
		100V	6.8pF	±.50pF	0.94	478-3742-1-ND	2.20	13.00	37.50	478-3742-2-ND	4,000	36.00/M	08051A6R8DAT2A
			10pF	±5%	0.94	478-1278-1-ND	2.20	13.00	37.50	478-1278-2-ND	4,000	36.00/M	08051A100JAT2A
			10pF	±.25pF	0.94	478-3730-1-ND	3.52	20.80	60.00	478-3730-2-ND	4,000	58.00/M	08051A100CAT2A
			10pF	±10%	0.94	478-3731-1-ND	2.09	12.35	35.63	478-3731-2-ND	4,000	34.00/M	08051A100KAT2A
			15pF	±5%	0.94	478-1279-1-ND	2.20	13.00	37.50	478-1279-2-ND	4,000	36.00/M	08051A150JAT2A
			20pF	±5%	0.94	478-3735-1-ND	2.31	13.65	39.38	478-3735-2-ND	4,000	38.00/M	08051A200JAT2A
			22pF	±5%	0.94	478-1280-1-ND	2.20	13.00	37.50	478-1280-2-ND	4,000	36.00/M	08051A220JAT2A
			22pF	±10%	0.94	478-3736-1-ND	2.09	12.35	35.63	478-3736-2-ND	4,000	34.00/M	08051A220KAT2A
			30pF	±5%	0.94	478-3738-1-ND	2.31	13.65	39.38	478-3738-2-ND	4,000	38.00/M	08051A300JAT2A
			33pF	±5%	0.94	478-1281-1-ND	2.31	13.65	39.38	478-1281-2-ND	4,000	38.00/M	08051A330JAT2A
			33pF	±10%	0.94	478-3739-1-ND	2.09	12.35	35.63	478-3739-2-ND	4,000	34.00/M	08051A330KAT2A
			47pF	±5%	0.94	478-1282-1-ND	2.20	13.00	37.50	478-1282-2-ND	4,000	36.00/M	08051A470JAT2A
			47pF	±10%	0.94	478-3740-1-ND	2.09	12.35	35.63	478-3740-2-ND	4,000	34.00/M	08051A470KAT2A
			68pF	±5%	0.94	478-1283-1-ND	2.20	13.00	37.50	478-1283-2-ND	4,000	36.00/M	08051A680JAT2A
			75pF	±5%	0.94	478-3743-1-ND	2.31	13.65	39.38	478-3743-2-ND	4,000	38.00/M	08051A750JAT2A
			100pF	±5%	0.94	478-1284-1-ND	2.20	13.00	37.50	478-1284-2-ND	4,000	36.00/M	08051A101JAT2A
			100pF	±1%	0.94	478-3732-1-ND	7.70	45.50	131.25	478-3732-2-ND	4,000	126.00/M	08051A101FAT2A
			100pF	±10%	0.94	478-3733-1-ND	2.09	12.35	35.63	478-3733-2-ND	4,000	34.00/M	08051A101KAT2A
			150pF	±5%	0.94	478-1285-1-ND	2.20	13.00	37.50	478-1285-2-ND	4,000	36.00/M	08051A151JAT2A
			150pF	±10%	0.94	478-3734-1-ND	2.86	16.90	48.75	478-3734-2-ND	4,000	47.00/M	08051A151KAT2A
			220pF	±5%	0.94	478-1286-1-ND	2.97	17.55	50.63	478-1286-2-ND	4,000	49.00/M	08051A221JAT2A
			270pF	±5%	0.94	478-3737-1-ND	2.86	16.90	48.75	478-3737-2-ND	4,000	47.00/M	08051A271JAT2A
			330pF	±5%	0.94	478-1287-1-ND	2.20	13.00	37.50	478-1287-2-ND	4,000	36.00/M	08051A331JAT2A

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0805	C0G (NP0)	100V	470pF	±5%	0.94	478-1288-1-ND	2.20	13.00	37.50	478-1288-2-ND	4,000	36.00/M	08051A471JAT2A
			560pF	±5%	0.94	478-3741-1-ND	3.19	18.85	54.38	478-3741-2-ND	4,000	52.00/M	08051A561JAT2A
			680pF	±5%	0.94	478-1289-1-ND	2.20	13.00	37.50	478-1289-2-ND	4,000	36.00/M	08051A681JAT2A
			820pF	±5%	0.94	478-3744-1-ND	3.19	18.85	54.38	478-3744-2-ND	4,000	52.00/M	08051A821JAT2A
			1000pF	±5%	0.94	478-1290-1-ND	3.30	19.50	56.25	478-1290-2-ND	4,000	54.00/M	08051A102JAT2A
		50V	.5pF	±.25pF	0.94	478-1291-1-ND	2.20	13.00	37.50	478-1291-2-ND	4,000	36.00/M	08055A0R5CAT2A
			1.0pF	±.25pF	0.94	478-1292-1-ND	2.20	13.00	37.50	478-1292-2-ND	4,000	36.00/M	08055A1R0CAT2A
			1.2pF	±.25pF	0.94	478-1293-1-ND	2.31	13.65	39.38	478-1293-2-ND	4,000	38.00/M	08055A1R2CAT2A
			1.5pF	±.25pF	0.94	478-1294-1-ND	2.20	13.00	37.50	478-1294-2-ND	4,000	36.00/M	08055A1R5CAT2A
			1.8pF	±.25pF	0.94	478-1295-1-ND	2.31	13.65	39.38	478-1295-2-ND	4,000	38.00/M	08055A1R8CAT2A
			2.2pF	±.25pF	0.94	478-1296-1-ND	2.31	13.65	39.38	478-1296-2-ND	4,000	38.00/M	08055A2R2CAT2A
			2.7pF	±.25pF	0.94	478-1297-1-ND	2.31	13.65	39.38	478-1297-2-ND	4,000	38.00/M	08055A2R7CAT2A
			3.3pF	±.25pF	0.94	478-1298-1-ND	2.31	13.65	39.38	478-1298-2-ND	4,000	38.00/M	08055A3R3CAT2A
			3.9pF	±.25pF	0.94	478-1299-1-ND	2.31	13.65	39.38	478-1299-2-ND	4,000	38.00/M	08055A3R9CAT2A
			4.7pF	±.25pF	0.94	478-1300-1-ND	2.31	13.65	39.38	478-1300-2-ND	4,000	38.00/M	08055A4R7CAT2A
			5.6pF	±.25pF	0.94	478-1301-1-ND	2.31	13.65	39.38	478-1301-2-ND	4,000	38.00/M	08055A5R6CAT2A
			6.8pF	±.25pF	0.94	478-1302-1-ND	2.31	13.65	39.38	478-1302-2-ND	4,000	38.00/M	08055A6R8CAT2A
			8.2pF	±.25pF	0.94	478-1303-1-ND	2.31	13.65	39.38	478-1303-2-ND	4,000	38.00/M	08055A8R2CAT2A
			10pF	±5%	0.94	478-1304-1-ND	.83	4.88	14.06	478-1304-2-ND	4,000	14.00/M	08055A100JAT2A
			12pF	±5%	0.94	478-1305-1-ND	1.10	6.50	18.75	478-1305-2-ND	4,000	18.00/M	08055A120JAT2A
			15pF	±5%	0.94	478-1306-1-ND	1.10	6.50	18.75	478-1306-2-ND	4,000	18.00/M	08055A150JAT2A
			18pF	±5%	0.94	478-1307-1-ND	1.10	6.50	18.75	478-1307-2-ND	4,000	18.00/M	08055A180JAT2A
			22pF	±5%	0.94	478-1308-1-ND	.83	4.88	14.06	478-1308-2-ND	4,000	14.00/M	08055A220JAT2A
			27pF	±5%	0.94	478-1309-1-ND	1.10	6.50	18.75	478-1309-2-ND	4,000	18.00/M	08055A270JAT2A
			33pF	±5%	0.94	478-1310-1-ND	1.10	6.50	18.75	478-1310-2-ND	4,000	18.00/M	08055A330JAT2A
			39pF	±5%	0.94	478-1311-1-ND	1.10	6.50	18.75	478-1311-2-ND	4,000	18.00/M	08055A390JAT2A
			47pF	±5%	0.94	478-1312-1-ND	1.10	6.50	18.75	478-1312-2-ND	4,000	18.00/M	08055A470JAT2A
			56pF	±5%	0.94	478-1313-1-ND	1.10	6.50	18.75	478-1313-2-ND	4,000	18.00/M	08055A560JAT2A
			68pF	±5%	0.94	478-1314-1-ND	1.10	6.50	18.75	478-1314-2-ND	4,000	18.00/M	08055A680JAT2A
			82pF	±5%	0.94	478-1315-1-ND	1.10	6.50	18.75	478-1315-2-ND	4,000	18.00/M	08055A820JAT2A
			100pF	±5%	0.94	478-1316-1-ND	1.10	6.50	18.75	478-1316-2-ND	4,000	18.00/M	08055A101JAT2A
			120pF	±5%	0.94	478-1317-1-ND	1.10	6.50	18.75	478-1317-2-ND	4,000	18.00/M	08055A121JAT2A
			150pF	±5%	0.94	478-1318-1-ND	1.10	6.50	18.75	478-1318-2-ND	4,000	18.00/M	08055A151JAT2A
			180pF	±5%	0.94	478-1319-1-ND	1.65	9.75	28.13	478-1319-2-ND	4,000	27.00/M	08055A181JAT2A
			220pF	±5%	0.94	478-1320-1-ND	1.10	6.50	18.75	478-1320-2-ND	4,000	18.00/M	08055A221JAT2A
			270pF	±5%	0.94	478-1321-1-ND	2.20	13.00	37.50	478-1321-2-ND	4,000	36.00/M	08055A271JAT2A
			330pF	±5%	0.94	478-1322-1-ND	1.10	6.50	18.75	478-1322-2-ND	4,000	18.00/M	08055A331JAT2A
			330pF	±10%	0.94	478-3765-1-ND	2.42	14.30	41.25	478-3765-2-ND	4,000	40.00/M	08055A331KAT2A
			390pF	±5%	0.94	478-1323-1-ND	1.32	7.80	22.50	478-1323-2-ND	4,000	22.00/M	08055A391JAT2A
			470pF	±5%	0.94	478-1324-1-ND	1.32	7.80	22.50	478-1324-2-ND	4,000	22.00/M	08055A471JAT2A
			470pF	±1%	0.94	478-3766-1-ND	10.12	59.80	172.50	478-3766-2-ND	4,000	166.00/M	08055A471FAT2A
			470pF	±10%	0.94	478-3767-1-ND	2.42	14.30	41.25	478-3767-2-ND	4,000	40.00/M	08055A471KAT2A
			560pF	±5%	0.94	478-1325-1-ND	1.65	9.75	28.13	478-1325-2-ND	4,000	27.00/M	08055A561JAT2A
			680pF	±5%	0.94	478-1326-1-ND	2.20	13.00	37.50	478-1326-2-ND	4,000	36.00/M	08055A681JAT2A
			820pF	±5%	0.94	478-1327-1-ND	1.65	9.75	28.13	478-1327-2-ND	4,000	27.00/M	08055A821JAT2A
			1000pF	±5%	0.94	478-1328-1-ND	1.32	7.80	22.50	478-1328-2-ND	4,000	22.00/M	08055A102JAT2A
			1000pF	±1%	0.94	478-3759-1-ND	10.12	59.80	172.50	478-3759-2-ND	4,000	166.00/M	08055A102FAT2A
			1000pF	±2%	0.94	478-3760-1-ND	7.15	42.25	121.88	478-3760-2-ND	4,000	117.00/M	08055A102GAT2A
			1000pF	±10%	0.94	478-3761-1-ND	3.85	22.75	65.63	478-3761-2-ND	4,000	63.00/M	08055A102KAT2A
			1200pF	±5%	0.94	478-3762-1-ND	4.51	26.65	76.88	478-3762-2-ND	4,000	74.00/M	08055A122JAT2A
			1500pF	±5%	0.94	478-1329-1-ND	2.97	17.55	50.63	478-1329-2-ND	4,000	49.00/M	08055A152JAT2A
			1800pF	±5%	0.94	478-3763-1-ND	4.51	26.65	76.88	478-3763-2-ND	4,000	74.00/M	08055A182JAT2A
			2200pF	±5%	1.27	478-1330-1-ND	2.97	17.55	50.63	478-1330-2-ND	2,000	49.00/M	08055A222JAT2A
			2700pF	±5%	1.27	478-3764-1-ND	4.84	28.60	82.50	478-3764-2-ND	2,000	79.00/M	08055A272JAT2A
		25V	2200pF	±5%	0.94	478-3753-1-ND	2.53	14.95	43.13	478-3753-2-ND	4,000	41.00/M	08053A222JAT2A
			2700pF	±5%	0.94	478-3754-1-ND	2.53	14.95	43.13	478-3754-2-ND	4,000	41.00/M	08053A272JAT2A
	X7R	1000V	1000pF	±10%	1.30	478-3998-1-ND	49.50	292.50	843.75	478-3998-2-ND	2,000	810.00/M	0805AC102KAT1A
		200V	220pF	±10%	0.71	478-1335-1-ND	8.25	48.75	140.63	478-1335-2-ND	4,000	135.00/M	08052C221KAT2A
			330pF	±10%	0.94	478-1336-1-ND	3.85	22.75	65.63	478-1336-2-ND	4,000	63.00/M	08052C331KAT2A
			470pF	±10%	0.94	478-1337-1-ND	3.85	22.75	65.63	478-1337-2-ND	4,000	63.00/M	08052C471KAT2A
			470pF	±5%	0.94	478-3752-1-ND	4.95	29.25	84.38	478-3752-2-ND	4,000	81.00/M	08052C471JAT2A
			680pF	±10%	0.94	478-1338-1-ND	3.85	22.75	65.63	478-1338-2-ND	4,000	63.00/M	08052C681KAT2A
			1000pF	±10%	0.94	478-1339-1-ND	8.25	48.75	140.63	478-1339-2-ND	4,000	135.00/M	08052C102KAT2A
			1000pF	±5%	0.94	478-3750-1-ND	4.95	29.25	84.38	478-3750-2-ND	4,000	81.00/M	08052C102JAT2A
			1000pF	±20%	0.94	478-3751-1-ND	3.22	19.05	54.94	478-3751-2-ND	4,000	53.00/M	08052C102MAT2A
			1500pF	±10%	0.94	478-1340-1-ND	8.80	52.00	150.00	478-1340-2-ND	4,000	144.00/M	08052C152KAT2A
			2200pF	±10%	0.94	478-1341-1-ND	3.85	22.75	65.63	478-1341-2-ND	4,000	63.00/M	08052C222KAT2A
			3300pF	±10%	0.94	478-1342-1-ND	3.85	22.75	65.63	478-1342-2-ND	4,000	63.00/M	08052C332KAT2A
			4700pF	±10%	0.94	478-1343-1-ND	3.85	22.75	65.63	478-1343-2-ND	4,000	63.00/M	08052C472KAT2A
			6800pF	±10%	0.94	478-1344-1-ND	6.60	39.00	112.50	478-1344-2-ND	4,000	108.00/M	08052C682KAT2A
			10000pF	±10%	0.94	478-1345-1-ND	12.10	71.50	206.25	478-1345-2-ND	4,000	198.00/M	08052C103KAT2A
			15000pF	±10%	0.94	478-1346-1-ND	14.30	84.50	243.75	478-1346-2-ND	4,000	234.00/M	08052C153KAT2A
			22000pF	±10%	1.40	478-1347-1-ND	4.68	27.63	79.69	478-1347-2-ND	2,000	77.00/M	08052C223KAT2A
		100V	220pF	±10%	0.71	478-1348-1-ND	1.10	6.50	18.75	478-1348-2-ND	4,000	18.00/M	08051C221KAT2A
			330pF	±10%	0.71	478-1349-1-ND	1.10	6.50	18.75	478-1349-2-ND	4,000	18.00/M	08051C331KAT2A
			470pF	±10%	0.71	478-1350-1-ND	1.10	6.50	18.75	478-1350-2-ND	4,000	18.00/M	08051C471KAT2A
			680pF	±10%	0.71	478-1351-1-ND	1.10	6.50	18.75	478-1351-2-ND	4,000	18.00/M	08051C681KAT2A
			1000pF	±10%	0.71	478-1352-1-ND	1.10	6.50	18.75	478-1352-2-ND	4,000	18.00/M	08051C102KAT2A
			1500pF	±10%	0.71	478-1353-1-ND	1.10	6.50	18.75	478-1353-2-ND	4,000	18.00/M	08051C152KAT2A
			2200pF	±10%	0.71	478-1354-1-ND	1.10	6.50	18.75	478-1354-2-ND	4,000	18.00/M	08051C222KAT2A
			2200pF	±5%	0.94	478-3746-1-ND	3.19	18.85	54.38	478-3746-2-ND	4,000	52.00/M	08051C222JAT2A
			2700pF	±5%	0.94	478-3748-1-ND	3.19	18.85	54.38	478-3748-2-ND	4,000	52.00/M	08051C272JAT2A
			3300pF	±10%	0.71	478-1355-1-ND	1.10	6.50	18.75	478-1355-2-ND	4,000	18.00/M	08051C332KAT2A
			3300pF	±5%	0.94	478-3749-1-ND	3.19	18.85	54.38	478-3749-2-ND	4,000	52.00/M	08051C332JAT2A
			4700pF	±10%	0.94	478-1356-1-ND	1.10	6.50	18.75	478-1356-2-ND	4,000	18.00/M	08051C472KAT2A
			6800pF	±10%	0.94	478-1357-1-ND	1.10	6.50	18.75	478-1357-2-ND	4,000	18.00/M	08051C682KAT2A
			10000pF	±5%	0.94	478-3745-1-ND	3.19	18.85	54.38	478-3745-2-ND	4,000	52.00/M	08051C103JAT2A
			22000pF	±5%	0.94	478-3747-1-ND	3.63	21.45	61.88	478-3747-2-ND	4,000	59.00/M	08051C223JAT2A
			10000pF	±10%	0.94	478-1358-1-ND	1.10	6.50	18.75	478-1358-2-ND	4,000	18.00/M	08051C103KAT2A
			15000pF	±10%	0.94	478-1359-1-ND	2.64	15.60	45.00	478-1359-2-ND	4,000	43.00/M	08051C153KAT2A
			22000pF	±10%	0.94	478-1360-1-ND	2.64	15.60	45.00	478-1360-2-ND	4,000	43.00/M	08051C223KAT2A
			33000pF	±10%	1.27	478-1361-1-ND	3.63	21.45	61.88	478-1361-2-ND	2,000	59.00/M	08051C333KAT2A
			47000pF	±10%	1.27	478-1362-1-ND	3.63	21.45	61.88	478-1362-2-ND	2,000	59.00/M	08051C473KAT2A
		50V	220pF	±10%	0.71	478-1363-1-ND	2.31	13.65	39.38	478-1363-2-ND	4,000	38.00/M	08055C221KAT2A
			270pF	±10%	0.71	478-1364-1-ND	2.31	13.65	39.38	478-1364-2-ND	4,000	38.00/M	08055C271KAT2A
			330pF	±10%	0.71	478-1365-1-ND	2.31	13.65	39.38	478-1365-2-ND	4,000	38.00/M	08055C331KAT2A
			390pF	±10%	0.71	478-1366-1-ND	2.31	13.65	39.38	478-1366-2-ND	4,000	38.00/M	08055C391KAT2A
			470pF	±10%	0.71	478-1367-1-ND	2.31	13.65	39.38	478-1367-2-ND	4,000	38.00/M	08055C471KAT2A

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
0805	X7R	50V	560pF	±10%	0.71	478-1368-1-ND	2.31	13.65	39.38	478-1368-2-ND	4,000	38.00/M	08055C561KAT2A
			680pF	±10%	0.71	478-1369-1-ND	2.31	13.65	39.38	478-1369-2-ND	4,000	38.00/M	08055C681KAT2A
			820pF	±10%	0.71	478-1370-1-ND	2.31	13.65	39.38	478-1370-2-ND	4,000	38.00/M	08055C821KAT2A
			1000pF	±10%	0.71	478-1371-1-ND	.66	3.90	11.25	478-1371-2-ND	4,000	11.00/M	08055C102KAT2A
			1200pF	±10%	0.71	478-1372-1-ND	1.10	6.50	18.75	478-1372-2-ND	4,000	18.00/M	08055C122KAT2A
			1500pF	±10%	0.71	478-1373-1-ND	1.10	6.50	18.75	478-1373-2-ND	4,000	18.00/M	08055C152KAT2A
			1800pF	±10%	0.71	478-1374-1-ND	1.10	6.50	18.75	478-1374-2-ND	4,000	18.00/M	08055C182KAT2A
			2200pF	±10%	0.71	478-1375-1-ND	1.10	6.50	18.75	478-1375-2-ND	4,000	18.00/M	08055C222KAT2A
			2700pF	±10%	0.71	478-1376-1-ND	2.20	13.00	37.50	478-1376-2-ND	4,000	36.00/M	08055C272KAT2A
			3300pF	±10%	0.71	478-1377-1-ND	1.10	6.50	18.75	478-1377-2-ND	4,000	18.00/M	08055C332KAT2A
			3900pF	±10%	0.71	478-1378-1-ND	2.20	13.00	37.50	478-1378-2-ND	4,000	36.00/M	08055C392KAT2A
			4700pF	±10%	0.71	478-1379-1-ND	1.10	6.50	18.75	478-1379-2-ND	4,000	18.00/M	08055C472KAT2A
			4700pF	±5%	0.94	478-3770-1-ND	3.19	18.85	54.38	478-3770-2-ND	4,000	52.00/M	08055C472JAT2A
			5600pF	±10%	0.71	478-1380-1-ND	2.20	13.00	37.50	478-1380-2-ND	4,000	36.00/M	08055C562KAT2A
			6800pF	±10%	0.71	478-1381-1-ND	2.20	13.00	37.50	478-1381-2-ND	4,000	36.00/M	08055C682KAT2A
			6800pF	±5%	0.94	478-3772-1-ND	3.19	18.85	54.38	478-3772-2-ND	4,000	52.00/M	08055C682JAT2A
			8200pF	±10%	0.71	478-1382-1-ND	2.31	13.65	39.38	478-1382-2-ND	3,000	38.00/M	08055C822KAT2A
			10000pF	±5%	0.94	478-3768-1-ND	3.19	18.85	54.38	478-3768-2-ND	4,000	52.00/M	08055C103JAT2A
			10000pF	±10%	0.71	478-1383-1-ND	.66	3.90	11.25	478-1383-2-ND	4,000	11.00/M	08055C103KAT2A
			12000pF	±10%	0.94	478-1384-1-ND	1.10	6.50	18.75	478-1384-2-ND	4,000	18.00/M	08055C123KAT2A
			15000pF	±10%	0.94	478-1385-1-ND	2.20	13.00	37.50	478-1385-2-ND	4,000	36.00/M	08055C 153KAT2A
			18000pF	±10%	0.94	478-1386-1-ND	2.20	13.00	37.50	478-1386-2-ND	4,000	36.00/M	08055C183KAT2A
			22000pF	±10%	0.94	478-1387-1-ND	1.10	6.50	18.75	478-1387-2-ND	4,000	18.00/M	08055C223KAT2A
			27000pF	±10%	0.94	478-1388-1-ND	1.10	6.50	18.75	478-1388-2-ND	4,000	18.00/M	08055C273KAT2A
			33000pF	±5%	0.94	478-3769-1-ND	3.63	21.45	61.88	478-3769-2-ND	4,000	59.00/M	08055C333JAT2A
			33000pF	±10%	0.94	478-1389-1-ND	2.20	13.00	37.50	478-1389-2-ND	4,000	36.00/M	08055C333KAT2A
			39000pF	±10%	0.94	478-1390-1-ND	1.10	6.50	18.75	478-1390-2-ND	4,000	18.00/M	08055C393KAT2A
			47000pF	±10%	0.94	478-1391-1-ND	1.10	6.50	18.75	478-1391-2-ND	4,000	18.00/M	08055C473KAT2A
			47000pF	±5%	0.94	478-3771-1-ND	3.63	21.45	61.88	478-3771-2-ND	4,000	59.00/M	08055C473JAT2A
			56000pF	±10%	0.94	478-1392-1-ND	1.10	6.50	18.75	478-1392-2-ND	4,000	18.00/M	08055C563KAT2A
			68000pF	±10%	0.94	478-1393-1-ND	1.10	6.50	18.75	478-1393-2-ND	4,000	18.00/M	08055C683KAT2A
			82000pF	±10%	0.94	478-1394-1-ND	1.10	6.50	18.75	478-1394-2-ND	4,000	18.00/M	08055C823KAT2A
			.10µF	±10%	0.94	478-1395-1-ND	.88	5.20	15.00	478-1395-2-ND	4,000	14.00/M	08055C104KAT2A
			.10µF	±20%	0.94	478-3351-1-ND	.33	2.85	11.25	478-3351-2-ND	4,000	13.00/M	08055C104MAT2A
			.10µF	±5%	0.94	478-3352-1-ND	.44	3.80	15.00	478-3352-2-ND	4,000	17.00/M	08055C104JAT2A
			.12µF	±10%	1.27	478-1396-1-ND	2.20	13.00	37.50	478-1396-2-ND	2,000	36.00/M	08055C124KAT2A
			.10µF	±10%	0.94	478-3755-1-ND	2.64	15.60	45.00	478-3755-2-ND	4,000	43.00/M	08053C104KAT2A
			.15µF	±10%	0.94	478-1397-1-ND	2.20	13.00	37.50	478-1397-2-ND	4,000	36.00/M	08053C154KAT2A
		25V	.18µF	±10%	0.94	478-1398-1-ND	2.20	13.00	37.50	478-1398-2-ND	2,000	36.00/M	08053C184KAT2A
			.22µF	±10%	0.94	478-1399-1-ND	2.20	13.00	37.50	478-1399-2-ND	2,000	36.00/M	08053C224KAT2A
			.22µF	±5%	1.40	478-3756-1-ND	9.24	54.60	157.50	478-3756-2-ND	2,000	151.00/M	08053C224JAT2A
			.22µF	±20%	1.40	478-3757-1-ND	2.75	16.25	46.88	478-3757-2-ND	2,000	45.00/M	08053C224MAT2A
		16V	.22µF	±10%	0.94	478-1400-1-ND	1.65	9.75	28.13	478-1400-2-ND	4,000	27.00/M	0805YC224KAT2A
			.22µF	±5%	0.94	478-3773-1-ND	8.14	48.10	138.75	478-3773-2-ND	4,000	133.00/M	0805YC224JAT2A
			.27µF	±10%	1.27	478-1401-1-ND	4.40	26.00	75.00	478-1401-2-ND	2,000	72.00/M	0805YC274KAT2A
			.33µF	±10%	1.27	478-1402-1-ND	4.40	26.00	75.00	478-1402-2-ND	2,000	72.00/M	0805YC334KAT2A
			.47µF	±10%	1.27	478-1403-1-ND	3.30	19.50	56.25	478-1403-2-ND	2,000	54.00/M	0805YC474KAT2A
			.47µF	±5%	1.40	478-3774-1-ND	9.24	54.60	157.50	478-3774-2-ND	2,000	151.00/M	0805YC474JAT2A
		10V	.68µF	±10%	1.40	478-1404-1-ND	6.60	39.00	112.50	478-1404-2-ND	2,000	108.00/M	0805ZC684KAT2A
			1.0µF	±10%	1.40	478-1405-1-ND	3.08	18.20	52.50	478-1405-2-ND	2,000	50.00/M	0805ZC105KAT2A
			1.0µF	±20%	1.40	478-3775-1-ND	13.20	78.00	225.00	478-3775-2-ND	2,000	216.00/M	0805ZC105MAT2A
	X8R	50V	1000pF	±10%	.94	478-3608-1-ND	3.30	19.50	56.25	478-3608-2-ND	4,000	54.00/M	08055F102K4T2A
			2200pF	±10%	.94	478-3615-1-ND	5.06	29.90	86.25	478-3615-2-ND	4,000	83.00/M	08055F222K4T2A
			10000pF	±10%	.94	478-3609-1-ND	3.30	19.50	56.25	478-3609-2-ND	4,000	54.00/M	08055F103K4T2A
			22000pF	±10%	.94	478-3610-1-ND	5.06	29.90	86.25	478-3610-2-ND	4,000	83.00/M	08055F223K4T2A
			33000pF	±10%	.94	478-3611-1-ND	5.06	29.90	86.25	478-3611-2-ND	4,000	83.00/M	08055F333K4T2A
			47000pF	±10%	.94	478-3612-1-ND	5.06	29.90	86.25	478-3612-2-ND	4,000	83.00/M	08055F473K4T2A
			68000pF	±10%	1.40	478-3613-1-ND	5.06	29.90	86.25	478-3613-2-ND	4,000	83.00/M	08055F683K4T2A
			.10µF	±10%	1.40	478-3614-1-ND	6.16	36.40	105.00	478-3614-2-ND	2,000	101.00/M	08055F104K4T2A
	X5R	25V	.33µF	±10%	1.40	478-1406-1-ND	8.69	51.35	148.13	478-1406-2-ND	3,000	142.00/M	08053D334KAT2A
			.47µF	±10%	1.40	478-1407-1-ND	8.69	51.35	148.13	478-1407-2-ND	3,000	142.00/M	08053D474KAT2A
			.68µF	±10%	1.40	478-1408-1-ND	8.69	51.35	148.13	478-1408-2-ND	3,000	142.00/M	08053D684KAT2A
			1.0µF	±10%	1.40	478-1409-1-ND	6.60	39.00	112.50	478-1409-2-ND	3,000	108.00/M	08053D105KAT2A
		16V	.68µF	±10%	1.40	478-1410-1-ND	3.85	22.75	65.63	478-1410-2-ND	3,000	63.00/M	0805YD684KAT2A
			1.0µF	±10%	1.40	478-1411-1-ND	2.75	16.25	46.88	478-1411-2-ND	2,000	45.00/M	0805YD105KAT2A
			2.2µF	±10%	1.40	478-2580-1-ND	9.90	58.50	168.75	478-2580-2-ND	3,000	162.00/M	0805YD225KAT2A
			10µF	±20%	1.40	478-4598-1-ND	14.40	42.25	121.88	478-4598-2-ND	3,000	576.00/M	0805YD106MAT2A
		10V	1.0µF	±10%	1.40	478-1412-1-ND	4.40	26.00	75.00	478-1412-2-ND	2,000	72.00/M	0805ZD105KAT2A
			2.2µF	±10%	1.40	478-1413-1-ND	4.40	26.00	75.00	478-1413-2-ND	3,000	72.00/M	0805ZD225KAT2A
			3.3µF	±10%	1.40	478-1414-1-ND	6.60	39.00	112.50	478-1414-2-ND	3,000	108.00/M	0805ZD335KAT2A
			4.7µF	±10%	1.40	478-1415-1-ND	7.15	42.25	121.88	478-1415-2-ND	3,000	117.00/M	0805ZD475KAT2A
		6.3V	4.7µF	±10%	1.40	478-1416-1-ND	6.05	35.75	103.13	478-1416-2-ND	3,000	99.00/M	08056D475KAT2A
			10µF	±20%	1.40	478-3648-1-ND	8.80	52.00	150.00	478-3648-2-ND	3,000	144.00/M	08056D106MAT2A
			10µF	±10%	1.40	478-1417-1-ND	8.80	52.00	150.00	478-1417-2-ND	3,000	144.00/M	08056D106KAT2A
			22µF	±20%	1.40	478-3647-1-ND	22.00	130.00	375.00	478-3647-2-ND	3,000	360.00/M	08056D226MAT2A
	Y5V	50V	10000pF	+80 -20%	0.71	478-1418-1-ND	1.10	6.50	18.75	478-1418-2-ND	4,000	18.00/M	08055G103ZAT2A
			22000pF	+80 -20%	0.71	478-1419-1-ND	1.10	6.50	18.75	478-1419-2-ND	4,000	18.00/M	08055G223ZAT2A
			47000pF	+80 -20%	0.71	478-1420-1-ND	1.10	6.50	18.75	478-1420-2-ND	4,000	18.00/M	08055G473ZAT2A
			.10µF	+80 -20%	0.71	478-1421-1-ND	.88	5.20	15.00	478-1421-2-ND	4,000	14.00/M	08055G104ZAT2A
			.22µF	+80 -20%	0.94	478-1422-1-ND	1.65	9.75	28.13	478-1422-2-ND	4,000	27.00/M	08055G224ZAT2A
		25V	.10µF	+80 -20%	0.71	478-1423-1-ND	1.10	6.50	18.75	478-1423-2-ND	4,000	18.00/M	08053G104ZAT2A
			.22µF	+80 -20%	0.94	478-1424-1-ND	1.65	9.75	28.13	478-1424-2-ND	4,000	27.00/M	08053G224ZAT2A
			.33µF	+80 -20%	1.40	478-3758-1-ND	7.04	41.60	120.00	478-3758-2-ND	3,000	115.00/M	08053G334ZAT2A
			.47µF	+80 -20%	1.40	478-1425-1-ND	2.20	13.00	37.50	478-1425-2-ND	3,000	36.00/M	08053G474ZAT2A
			1.0µF	+80 -20%	1.40	478-1426-1-ND	3.30	19.50	56.25	478-1426-2-ND	3,000	54.00/M	08053G105ZAT2A
		16V	1.0µF	+80 -20%	1.40	478-1427-1-ND	5.50	32.50	93.75	478-1427-2-ND	3,000	90.00/M	0805YG105ZAT2A
			2.2µF	+80 -20%	1.40	478-1428-1-ND	7.15	42.25	121.88	478-1428-2-ND	3,000	117.00/M	0805YG225ZAT2A
		10V	4.7µF	+80 -20%	1.52	478-1429-1-ND	9.35	55.25	159.38	478-1429-2-ND	3,000	153.00/M	0805ZG475ZAT2A
1206	C0G (NP0)	2000V	47pF	±10%	1.52	478-4720-1-ND ***NEW!***	13.20	78.00	225.00	478-4720-2-ND ***NEW!***	2,000	216.00/M	1206GA470KAT1A
		1500V	100pF	±5%	1.52	478-4722-1-ND ***NEW!***	17.60	104.00	300.00	478-4722-2-ND ***NEW!***	2,000	288.00/M	1206SA101JAT1A
		1000V	47pF	±10%	1.52	478-2949-1-ND	16.50	97.50	281.25	478-2949-2-ND	2,000	270.00/M	1206AA470KAT1A
			220pF	±5%	1.52	478-4719-1-ND ***NEW!***	8.80	52.00	150.00	478-4719-2-ND ***NEW!***	2,000	144.00/M	1206AA221JAT1A
			470pF	±5%	1.52	478-2950-1-ND	19.80	117.00	337.50	478-2950-2-ND	2,000	324.00/M	1206AA471JAT1A
		500V	100pF	±5%	.94	478-3803-1-ND	13.20	78.00	225.00	478-3803-2-ND	4,000	216.00/M	12067A101JAT2A
			470pF	±5%	1.27	478-3804-1-ND	16.50	97.50	281.25	478-3804-2-ND	2,000	270.00/M	12067A471JAT2A
		200V	100pF	±5%	0.94	478-1430-1-ND	4.13	24.38	70.31	478-1430-2-ND	4,000	68.00/M	12062A101JAT2A
			150pF	±5%	0.94	478-1431-1-ND	4.51	26.65	76.88	478-1431-2-ND	4,000	74.00/M	12062A151JAT2A
			220pF	±5%	0.94	478-1432-1-ND	4.51	26.65	76.88	478-1432-2-ND	4,000	74.00/M	12062A221JAT2A

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Size		WV			Dim. T	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		AVX
Code	Type	DC	Capacitance	Tolerance	(mm)	Part No.	10	100	500	Part No.	Qty.	Pricing	Part No.
1206	C0G (NP0)	200V	330pF	±5%	0.94	478-1433-1-ND	4.51	26.65	76.88	478-1433-2-ND	4,000	74.00/M	12062A331JAT2A
			470pF	±5%	0.94	478-1434-1-ND	8.25	48.75	140.63	478-1434-2-ND	4,000	135.00/M	12062A471JAT2A
			680pF	±5%	0.94	478-1435-1-ND	8.25	48.75	140.63	478-1435-2-ND	4,000	135.00/M	12062A681JAT2A
			1000pF	±5%	1.78	478-1436-1-ND	8.25	48.75	140.63	478-1436-2-ND	2,000	135.00/M	12062A102JAT2A
			1500pF	±5%	1.78	478-1437-1-ND	5.01	29.58	85.31	478-1437-2-ND	2,000	82.00/M	12062A152JAT2A
		100V	10pF	±5%	0.94	478-1438-1-ND	7.70	45.50	131.25	478-1438-2-ND	4,000	126.00/M	12061A100JAT2A
			10pF	±10%	0.94	478-3776-1-ND	3.52	20.80	60.00	478-3776-2-ND	4,000	58.00/M	12061A100KAT2A
			15pF	±5%	0.94	478-1439-1-ND	7.70	45.50	131.25	478-1439-2-ND	4,000	126.00/M	12061A150JAT2A
			22pF	±5%	0.94	478-1440-1-ND	7.70	45.50	131.25	478-1440-2-ND	4,000	126.00/M	12061A220JAT2A
			22pF	±10%	0.94	478-3779-1-ND	3.52	20.80	60.00	478-3779-2-ND	4,000	58.00/M	12061A220KAT2A
			33pF	±5%	0.94	478-1441-1-ND	7.70	45.50	131.25	478-1441-2-ND	4,000	126.00/M	12061A330JAT2A
			47pF	±5%	0.94	478-1442-1-ND	7.70	45.50	131.25	478-1442-2-ND	4,000	126.00/M	12061A470JAT2A
			68pF	±5%	0.94	478-1443-1-ND	3.52	20.80	60.00	478-1443-2-ND	4,000	58.00/M	12061A680JAT2A
			100pF	±5%	0.94	478-1444-1-ND	7.70	45.50	131.25	478-1444-2-ND	4,000	126.00/M	12061A101JAT2A
			100pF	±10%	0.94	478-3777-1-ND	3.52	20.80	60.00	478-3777-2-ND	4,000	58.00/M	12061A101KAT2A
			150pF	±5%	0.94	478-1445-1-ND	8.25	48.75	140.63	478-1445-2-ND	4,000	135.00/M	12061A151JAT2A
			220pF	±5%	0.94	478-1446-1-ND	8.25	48.75	140.63	478-1446-2-ND	4,000	135.00/M	12061A221JAT2A
			220pF	±10%	0.94	478-3780-1-ND	3.52	20.80	60.00	478-3780-2-ND	4,000	58.00/M	12061A221KAT2A
			330pF	±5%	0.94	478-1447-1-ND	8.80	52.00	150.00	478-1447-2-ND	4,000	144.00/M	12061A331JAT2A
			470pF	±5%	0.94	478-1448-1-ND	8.80	52.00	150.00	478-1448-2-ND	4,000	144.00/M	12061A471JAT2A
			470pF	±10%	0.94	478-3781-1-ND	4.07	24.05	69.38	478-3781-2-ND	4,000	67.00/M	12061A471KAT2A
			680pF	±5%	0.94	478-1449-1-ND	5.13	30.29	87.38	478-1449-2-ND	4,000	84.00/M	12061A681JAT2A
			1000pF	±5%	0.94	478-1450-1-ND	8.80	52.00	150.00	478-1450-2-ND	4,000	144.00/M	12061A102JAT2A
			1000pF	±1%	0.94	478-3778-1-ND	11.00	65.00	187.50	478-3778-2-ND	4,000	180.00/M	12061A102FAT2A
			1500pF	±5%	1.27	478-1451-1-ND	6.93	40.95	118.13	478-1451-2-ND	2,000	113.00/M	12061A152JAT2A
			2200pF	±5%	1.52	478-1452-1-ND	6.93	40.95	118.13	478-1452-2-ND	2,000	113.00/M	12061A222JAT2A
			3300pF	±5%	1.52	478-1453-1-ND	6.93	40.95	118.13	478-1453-2-ND	2,000	113.00/M	12061A332JAT2A
		50V	.5pF	±.25pF	0.94	478-1455-1-ND	3.52	20.80	60.00	478-1455-2-ND	4,000	58.00/M	12065A0R5CAT2A
			1.0pF	±.25pF	0.94	478-1456-1-ND	3.52	20.80	60.00	478-1456-2-ND	4,000	58.00/M	12065A1R0CAT2A
			1.2pF	±.25pF	0.94	478-1457-1-ND	3.52	20.80	60.00	478-1457-2-ND	4,000	58.00/M	12065A1R2CAT2A
			1.5pF	±.25pF	0.94	478-1458-1-ND	3.52	20.80	60.00	478-1458-2-ND	4,000	58.00/M	12065A1R5CAT2A
			1.8pF	±.25pF	0.94	478-1459-1-ND	3.52	20.80	60.00	478-1459-2-ND	4,000	58.00/M	12065A1R8CAT2A
			2.2pF	±.25pF	0.94	478-1460-1-ND	3.52	20.80	60.00	478-1460-2-ND	4,000	58.00/M	12065A2R2CAT2A
			2.7pF	±.25pF	0.94	478-1461-1-ND	3.52	20.80	60.00	478-1461-2-ND	4,000	58.00/M	12065A2R7CAT2A
			3.3pF	±.25pF	0.94	478-1462-1-ND	3.52	20.80	60.00	478-1462-2-ND	4,000	58.00/M	12065A3R3CAT2A
			3.9pF	±.25pF	0.94	478-1463-1-ND	3.52	20.80	60.00	478-1463-2-ND	4,000	58.00/M	12065A3R9CAT2A
			4.7pF	±.25pF	0.94	478-1464-1-ND	3.52	20.80	60.00	478-1464-2-ND	4,000	58.00/M	12065A4R7CAT2A
			5.6pF	±.25pF	0.94	478-1465-1-ND	3.52	20.80	60.00	478-1465-2-ND	4,000	58.00/M	12065A5R6CAT2A
			6.8pF	±.25pF	0.94	478-1466-1-ND	3.52	20.80	60.00	478-1466-2-ND	4,000	58.00/M	12065A6R8CAT2A
			8.2pF	±.25pF	0.94	478-1467-1-ND	3.52	20.80	60.00	478-1467-2-ND	4,000	58.00/M	12065A8R2CAT2A
			10pF	±5%	0.94	478-1468-1-ND	4.18	24.70	71.25	478-1468-2-ND	4,000	68.00/M	12065A100JAT2A
			12pF	±5%	0.94	478-1469-1-ND	4.18	24.70	71.25	478-1469-2-ND	4,000	68.00/M	12065A120JAT2A
			15pF	±5%	0.94	478-1470-1-ND	4.18	24.70	71.25	478-1470-2-ND	4,000	68.00/M	12065A150JAT2A
			18pF	±5%	0.94	478-1471-1-ND	4.18	24.70	71.25	478-1471-2-ND	4,000	68.00/M	12065A180JAT2A
			22pF	±5%	0.94	478-1472-1-ND	3.70	21.84	63.00	478-1472-2-ND	4,000	60.00/M	12065A220JAT2A
			27pF	±5%	0.94	478-1473-1-ND	4.18	24.70	71.25	478-1473-2-ND	4,000	68.00/M	12065A270JAT2A
			33pF	±5%	0.94	478-1474-1-ND	4.18	24.70	71.25	478-1474-2-ND	4,000	68.00/M	12065A330JAT2A
			39pF	±5%	0.94	478-1475-1-ND	4.18	24.70	71.25	478-1475-2-ND	4,000	68.00/M	12065A390JAT2A
			47pF	±5%	0.94	478-1476-1-ND	4.18	24.70	71.25	478-1476-2-ND	4,000	68.00/M	12065A470JAT2A
			56pF	±5%	0.94	478-1477-1-ND	4.18	24.70	71.25	478-1477-2-ND	4,000	68.00/M	12065A560JAT2A
			68pF	±5%	0.94	478-1478-1-ND	4.18	24.70	71.25	478-1478-2-ND	4,000	68.00/M	12065A680JAT2A
			82pF	±5%	0.94	478-1479-1-ND	4.18	24.70	71.25	478-1479-2-ND	4,000	68.00/M	12065A820JAT2A
			100pF	±5%	0.94	478-1480-1-ND	4.18	24.70	71.25	478-1480-2-ND	4,000	68.00/M	12065A101JAT2A
			120pF	±5%	0.94	478-1481-1-ND	4.18	24.70	71.25	478-1481-2-ND	4,000	68.00/M	12065A121JAT2A
			150pF	±5%	0.94	478-1482-1-ND	5.17	30.55	88.13	478-1482-2-ND	4,000	85.00/M	12065A151JAT2A
			180pF	±5%	0.94	478-1483-1-ND	5.13	30.29	87.38	478-1483-2-ND	2,500	84.00/M	12065A181JAT2A
			220pF	±5%	0.94	478-1484-1-ND	5.17	30.55	88.13	478-1484-2-ND	4,000	85.00/M	12065A221JAT2A
			270pF	±5%	0.94	478-1485-1-ND	5.13	30.29	87.38	478-1485-2-ND	4,000	84.00/M	12065A271JAT2A
			330pF	±5%	0.94	478-1486-1-ND	5.17	30.55	88.13	478-1486-2-ND	4,000	85.00/M	12065A331JAT2A
			390pF	±5%	0.94	478-1487-1-ND	5.13	30.29	87.38	478-1487-2-ND	4,000	84.00/M	12065A391JAT2A
			470pF	±5%	0.94	478-1488-1-ND	5.13	30.29	87.38	478-1488-2-ND	4,000	84.00/M	12065A471JAT2A
			560pF	±5%	0.94	478-1489-1-ND	5.13	30.29	87.38	478-1489-2-ND	4,000	84.00/M	12065A561JAT2A
			680pF	±5%	0.94	478-1490-1-ND	5.13	30.29	87.38	478-1490-2-ND	4,000	84.00/M	12065A681JAT2A
			820pF	±5%	0.94	478-1491-1-ND	5.13	30.29	87.38	478-1491-2-ND	4,000	84.00/M	12065A821JAT2A
			1000pF	±5%	0.94	478-1492-1-ND	5.13	30.29	87.38	478-1492-2-ND	4,000	84.00/M	12065A102JAT2A
			1000pF	±10%	0.94	478-3795-1-ND	5.13	30.29	87.38	478-3795-2-ND	4,000	84.00/M	12065A102KAT2A
			1200pF	±5%	0.94	478-1493-1-ND	5.49	32.44	93.56	478-1493-2-ND	4,000	90.00/M	12065A122JAT2A
			1500pF	±5%	0.94	478-1494-1-ND	5.49	32.44	93.56	478-1494-2-ND	4,000	90.00/M	12065A152JAT2A
			1800pF	±5%	1.27	478-1495-1-ND	6.60	39.00	112.50	478-1495-2-ND	2,000	108.00/M	12065A182JAT2A
			2200pF	±5%	1.27	478-1496-1-ND	5.86	34.65	99.94	478-1496-2-ND	2,000	96.00/M	12065A222JAT2A
			2200pF	±1%	1.27	478-3796-1-ND	19.47	115.05	331.88	478-3796-2-ND	2,000	319.00/M	12065A222FAT2A
			2700pF	±5%	1.27	478-1497-1-ND	5.86	34.65	99.94	478-1497-2-ND	2,000	96.00/M	12065A272JAT2A
			3300pF	±5%	1.27	478-1498-1-ND	5.86	34.65	99.94	478-1498-2-ND	2,000	96.00/M	12065A332JAT2A
			3900pF	±5%	1.27	478-1499-1-ND	5.86	34.65	99.94	478-1499-2-ND	2,000	96.00/M	12065A392JAT2A
	X7R	2000V	100pF	±10%	1.50	478-3999-1-ND	15.40	91.00	262.50	478-3999-2-ND	2,000	252.00/M	1206GC101KAT1A
			220pF	±10%	1.52	478-4721-1-ND ***NEW!***	13.20	78.00	225.00	478-4721-2-ND ***NEW!***	2,000	216.00/M	1206GC221KAT1A
			390pF	±10%	1.50	478-4000-1-ND	15.40	91.00	262.50	478-4000-2-ND	2,000	252.00/M	1206GC391KAT1A
			470pF	±10%	1.52	478-2957-1-ND	6.60	39.00	112.50	478-2957-2-ND	2,000	108.00/M	1206GC471KAT1A
			1000pF	±10%	1.52	478-2956-1-ND	6.60	39.00	112.50	478-2956-2-ND	2,000	108.00/M	1206GC102KAT1A
		1000V	100pF	±10%	1.52	478-2951-1-ND	16.50	97.50	281.25	478-2951-2-ND	2,000	270.00/M	1206AC101KAT1A
			1000pF	±10%	1.52	478-2952-1-ND	6.60	39.00	112.50	478-2952-2-ND	2,000	108.00/M	1206AC102KAT1A
			2200pF	±10%	1.52	478-2953-1-ND	6.60	39.00	112.50	478-2953-2-ND	2,000	108.00/M	1206AC222KAT1A
			4700pF	±10%	1.52	478-2954-1-ND	16.50	97.50	281.25	478-2954-2-ND	2,000	270.00/M	1206AC472KAT1A
		630V	10000pF	±10%	1.52	478-2955-1-ND	16.50	97.50	281.25	478-2955-2-ND	2,000	270.00/M	1206CC103KAT1A
		500V	1000pF	±10%	1.02	478-3805-1-ND	14.30	84.50	243.75	478-3805-2-ND	4,000	234.00/M	12067C102KAT2A
			4700pF	±10%	1.27	478-3807-1-ND	13.86	81.90	236.25	478-3807-2-ND	2,000	227.00/M	12067C472KAT2A
			10000pF	±10%	1.52	478-3806-1-ND	22.00	130.00	375.00	478-3806-2-ND	2,000	360.00/M	12067C103KAT2A
		200V	1000pF	±10%	0.94	478-1505-1-ND	4.40	26.00	75.00	478-1505-2-ND	4,000	72.00/M	12062C102KAT2A
			1500pF	±10%	0.94	478-1506-1-ND	4.40	26.00	75.00	478-1506-2-ND	4,000	72.00/M	12062C152KAT2A
			2200pF	±10%	0.94	478-1507-1-ND	4.40	26.00	75.00	478-1507-2-ND	4,000	72.00/M	12062C222KAT2A
			3300pF	±10%	0.94	478-1508-1-ND	4.40	26.00	75.00	478-1508-2-ND	4,000	72.00/M	12062C332KAT2A
			4700pF	±10%	0.94	478-1509-1-ND	4.40	26.00	75.00	478-1509-2-ND	4,000	72.00/M	12062C472KAT2A
			6800pF	±10%	0.94	478-1510-1-ND	4.40	26.00	75.00	478-1510-2-ND	4,000	72.00/M	12062C682KAT2A
			10000pF	±10%	0.94	478-1511-1-ND	4.40	26.00	75.00	478-1511-2-ND	4,000	72.00/M	12062C103KAT2A
			15000pF	±10%	1.27	478-1512-1-ND	8.25	48.75	140.63	478-1512-2-ND	2,000	135.00/M	12062C153KAT2A
			22000pF	±10%	1.27	478-1513-1-ND	4.62	27.30	78.75	478-1513-2-ND	2,000	76.00/M	12062C223KAT2A
			33000pF	±10%	1.27	478-1514-1-ND	4.62	27.30	78.75	478-1514-2-ND	2,000	76.00/M	12062C333KAT2A

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
1206	X7R	200V	47000pF	±10%	1.27	478-1515-1-ND	4.62	27.30	78.75	478-1515-2-ND	2,000	76.00/M	12062C473KAT2A
			68000pF	±10%	1.52	478-1516-1-ND	13.20	78.00	225.00	478-1516-2-ND	2,000	216.00/M	12062C683KAT2A
		100V	1000pF	±10%	0.94	478-1517-1-ND	3.19	18.85	54.38	478-1517-2-ND	4,000	52.00/M	12061C102KAT2A
			1000pF	±5%	0.94	478-3782-1-ND	3.41	20.15	58.13	478-3782-2-ND	4,000	56.00/M	12061C102JAT2A
			1500pF	±10%	0.94	478-1518-1-ND	3.19	18.85	54.38	478-1518-2-ND	4,000	52.00/M	12061C152KAT2A
			2200pF	±10%	0.94	478-1519-1-ND	3.19	18.85	54.38	478-1519-2-ND	4,000	52.00/M	12061C222KAT2A
			2200pF	±5%	0.94	478-3788-1-ND	3.41	20.15	58.13	478-3788-2-ND	4,000	56.00/M	12061C222JAT2A
			3300pF	±10%	0.94	478-1520-1-ND	3.19	18.85	54.38	478-1520-2-ND	4,000	52.00/M	12061C332KAT2A
			4700pF	±10%	0.94	478-1521-1-ND	3.19	18.85	54.38	478-1521-2-ND	4,000	52.00/M	12061C472KAT2A
			4700pF	±5%	0.94	478-3791-1-ND	3.41	20.15	58.13	478-3791-2-ND	4,000	56.00/M	12061C472JAT2A
			6800pF	±10%	0.94	478-1522-1-ND	3.19	18.85	54.38	478-1522-2-ND	4,000	52.00/M	12061C682KAT2A
			6800pF	±5%	0.94	478-3794-1-ND	3.41	20.15	58.13	478-3794-2-ND	4,000	56.00/M	12061C682JAT2A
			10000pF	±5%	0.94	478-3783-1-ND	3.41	20.15	58.13	478-3783-2-ND	4,000	56.00/M	12061C103JAT2A
			10000pF	±20%	0.94	478-3784-1-ND	3.19	18.85	54.38	478-3784-2-ND	4,000	52.00/M	12061C103MAT2A
			10000pF	±10%	0.94	478-1523-1-ND	3.19	18.85	54.38	478-1523-2-ND	4,000	52.00/M	12061C103KAT2A
			15000pF	±5%	0.94	478-3787-1-ND	3.96	23.40	67.50	478-3787-2-ND	4,000	65.00/M	12061C153JAT2A
			15000pF	±10%	0.94	478-1524-1-ND	3.30	19.50	56.25	478-1524-2-ND	4,000	54.00/M	12061C153KAT2A
			22000pF	±5%	0.94	478-3789-1-ND	3.96	23.40	67.50	478-3789-2-ND	4,000	65.00/M	12061C223JAT2A
			22000pF	±10%	0.94	478-1525-1-ND	3.30	19.50	56.25	478-1525-2-ND	4,000	54.00/M	12061C223KAT2A
			33000pF	±5%	0.94	478-3790-1-ND	3.96	23.40	67.50	478-3790-2-ND	4,000	65.00/M	12061C333JAT2A
			33000pF	±10%	0.94	478-1526-1-ND	3.30	19.50	56.25	478-1526-2-ND	4,000	54.00/M	12061C333KAT2A
			47000pF	±5%	0.94	478-3792-1-ND	3.96	23.40	67.50	478-3792-2-ND	4,000	65.00/M	12061C473JAT2A
			47000pF	±20%	0.94	478-3793-1-ND	3.30	19.50	56.25	478-3793-2-ND	4,000	54.00/M	12061C473MAT2A
			47000pF	±10%	0.94	478-1527-1-ND	3.30	19.50	56.25	478-1527-2-ND	4,000	54.00/M	12061C473KAT2A
			68000pF	±10%	0.94	478-1528-1-ND	3.52	20.80	60.00	478-1528-2-ND	4,000	58.00/M	12061C683KAT2A
			.10µF	±10%	1.27	478-1529-1-ND	2.20	13.00	37.50	478-1529-2-ND	2,000	36.00/M	12061C104KAT2A
			.10µF	±5%	1.27	478-3785-1-ND	4.40	26.00	75.00	478-3785-2-ND	2,000	72.00/M	12061C104JAT2A
			.10µF	±20%	1.27	478-3786-1-ND	3.85	22.75	65.63	478-3786-2-ND	2,000	63.00/M	12061C104MAT2A
		50V	1000pF	±10%	0.94	478-1530-1-ND	1.76	10.40	30.00	478-1530-2-ND	4,000	29.00/M	12065C102KAT2A
			1200pF	±10%	0.94	478-1531-1-ND	3.03	17.88	51.56	478-1531-2-ND	4,000	50.00/M	12065C122KAT2A
			1500pF	±10%	0.94	478-1532-1-ND	3.03	17.88	51.56	478-1532-2-ND	4,000	50.00/M	12065C152KAT2A
			1800pF	±10%	0.94	478-1533-1-ND	3.03	17.88	51.56	478-1533-2-ND	4,000	50.00/M	12065C182KAT2A
			2200pF	±10%	0.94	478-1534-1-ND	3.03	17.88	51.56	478-1534-2-ND	4,000	50.00/M	12065C222KAT2A
			2700pF	±10%	0.94	478-1535-1-ND	3.03	17.88	51.56	478-1535-2-ND	4,000	50.00/M	12065C272KAT2A
			3300pF	±10%	0.94	478-1536-1-ND	3.03	17.88	51.56	478-1536-2-ND	4,000	50.00/M	12065C332KAT2A
			3900pF	±10%	0.94	478-1537-1-ND	3.03	17.88	51.56	478-1537-2-ND	4,000	50.00/M	12065C392KAT2A
			4700pF	±10%	0.94	478-1538-1-ND	3.74	22.10	63.75	478-1538-2-ND	4,000	61.00/M	12065C472KAT2A
			5600pF	±10%	0.94	478-1539-1-ND	3.03	17.88	51.56	478-1539-2-ND	4,000	50.00/M	12065C562KAT2A
			6800pF	±10%	0.94	478-1540-1-ND	3.03	17.88	51.56	478-1540-2-ND	4,000	50.00/M	12065C682KAT2A
			8200pF	±10%	0.94	478-1541-1-ND	3.03	17.88	51.56	478-1541-2-ND	4,000	50.00/M	12065C822KAT2A
			10000pF	±10%	0.94	478-1542-1-ND	1.76	10.40	30.00	478-1542-2-ND	4,000	29.00/M	12065C103KAT2A
			12000pF	±10%	0.94	478-1543-1-ND	3.19	18.85	54.38	478-1543-2-ND	4,000	52.00/M	12065C123KAT2A
			15000pF	±10%	0.94	478-1544-1-ND	3.19	18.85	54.38	478-1544-2-ND	4,000	52.00/M	12065C153KAT2A
			18000pF	±10%	0.94	478-1545-1-ND	3.19	18.85	54.38	478-1545-2-ND	4,000	52.00/M	12065C183KAT2A
			22000pF	±10%	0.94	478-1546-1-ND	3.19	18.85	54.38	478-1546-2-ND	4,000	52.00/M	12065C223KAT2A
			27000pF	±10%	0.94	478-1547-1-ND	3.19	18.85	54.38	478-1547-2-ND	4,000	52.00/M	12065C273KAT2A
			33000pF	±10%	0.94	478-1548-1-ND	3.19	18.85	54.38	478-1548-2-ND	4,000	52.00/M	12065C333KAT2A
			39000pF	±10%	0.94	478-1549-1-ND	3.19	18.85	54.38	478-1549-2-ND	4,000	52.00/M	12065C393KAT2A
			47000pF	±10%	0.94	478-1550-1-ND	3.19	18.85	54.38	478-1550-2-ND	4,000	52.00/M	12065C473KAT2A
			56000pF	±10%	0.94	478-1551-1-ND	3.52	20.80	60.00	478-1551-2-ND	4,000	58.00/M	12065C563KAT2A
			68000pF	±10%	0.94	478-1553-1-ND	3.52	20.80	60.00	478-1553-2-ND	4,000	58.00/M	12065C683KAT2A
			82000pF	±10%	0.94	478-1555-1-ND	3.52	20.80	60.00	478-1555-2-ND	4,000	58.00/M	12065C823KAT2A
			.10µF	±10%	0.94	478-1556-1-ND	1.43	8.45	24.38	478-1556-2-ND	4,000	23.00/M	12065C104KAT2A
			.10µF	±20%	0.94	478-3353-1-ND	1.44	12.54	49.50	478-3353-2-ND	4,000	56.00/M	12065C104MAT2A
			.10µF	±5%	0.94	478-3797-1-ND	3.85	22.75	65.63	478-3797-2-ND	4,000	63.00/M	12065C104JAT2A
			.12µF	±10%	0.94	478-1557-1-ND	3.30	19.50	56.25	478-1557-2-ND	4,000	54.00/M	12065C124KAT2A
			.15µF	±10%	0.94	478-1558-1-ND	3.30	19.50	56.25	478-1558-2-ND	4,000	54.00/M	12065C154KAT2A
			.18µF	±10%	0.94	478-1559-1-ND	3.30	19.50	56.25	478-1559-2-ND	4,000	54.00/M	12065C184KAT2A
			.22µF	±10%	0.94	478-1560-1-ND	3.30	19.50	56.25	478-1560-2-ND	3,000	54.00/M	12065C224KAT2A
			.22µF	±5%	0.94	478-3798-1-ND	5.39	31.85	91.88	478-3798-2-ND	4,000	88.00/M	12065C224JAT2A
			.22µF	±20%	0.94	478-3799-1-ND	4.73	27.95	80.63	478-3799-2-ND	4,000	77.00/M	12065C224MAT2A
			.27µF	±10%	1.27	478-1561-1-ND	4.40	26.00	75.00	478-1561-2-ND	2,000	72.00/M	12065C274KAT2A
			.33µF	±10%	1.27	478-1562-1-ND	6.60	39.00	112.50	478-1562-2-ND	2,000	108.00/M	12065C334KAT2A
			.33µF	±20%	1.52	478-3800-1-ND	6.16	36.40	105.00	478-3800-2-ND	2,000	101.00/M	12065C334MAT2A
			.47µF	±10%	1.52	478-3801-1-ND	6.49	38.35	110.63	478-3801-2-ND	2,000	106.00/M	12065C474KAT2A
		25V	.47µF	±10%	1.27	478-1563-1-ND	5.50	32.50	93.75	478-1563-2-ND	2,000	90.00/M	12063C474KAT2A
			.56µF	±10%	1.78	478-1564-1-ND	6.60	39.00	112.50	478-1564-2-ND	2,000	108.00/M	12063C564KAT2A
			.68µF	±10%	1.78	478-1565-1-ND	6.60	39.00	112.50	478-1565-2-ND	2,500	108.00/M	12063C684KAT2A
			.82µF	±10%	1.78	478-1566-1-ND	6.60	39.00	112.50	478-1566-2-ND	2,500	108.00/M	12063C824KAT2A
			1.0µF	±10%	1.78	478-1567-1-ND	4.40	26.00	75.00	478-1567-2-ND	2,500	72.00/M	12063C105KAT2A
		16V	1.0µF	±10%	1.40	478-2576-1-ND	4.18	24.70	71.25	478-2576-2-ND	2,000	68.00/M	1206YC105KAT2A
			1.0µF	±20%	1.27	478-3808-1-ND	11.88	70.20	202.50	478-3808-2-ND	2,000	194.00/M	1206YC105MAT2A
			.33µF	±10%	0.94	478-3809-1-ND	5.06	29.90	86.25	478-3809-2-ND	4,000	83.00/M	1206YC334KAT2A
			.68µF	±10%	1.27	478-3810-1-ND	10.89	64.35	185.63	478-3810-2-ND	2,000	178.00/M	1206YC684KAT2A
		10V	2.2µF	±10%	1.78	478-1568-1-ND	13.20	78.00	225.00	478-1568-2-ND	2,000	216.00/M	1206ZC225KAT2A
		6.3V	22µF	±20%	1.78	478-4595-1-ND	12.60	105.00	350.00	478-4595-2-ND	2,500	504.00/M	12066C226MAT2A
	X8R	50V	10000pF	±10%	0.94	478-3616-1-ND	5.06	29.90	86.25	478-3616-2-ND	4,000	83.00/M	12065F103K4T2A
			47000pF	±10%	0.94	478-3617-1-ND	5.06	29.90	86.25	478-3617-2-ND	4,000	83.00/M	12065F473K4T2A
			.10µF	±10%	1.27	478-3618-1-ND	4.40	26.00	75.00	478-3618-2-ND	2,000	72.00/M	12065F104K4T2A
			.22µF	±10%	1.27	478-3619-1-ND	6.93	40.95	118.13	478-3619-2-ND	2,000	113.00/M	12065F224K4T2A
			.33µF	±10%	1.27	478-3620-1-ND	14.30	84.50	243.75	478-3620-2-ND	2,000	234.00/M	12065F334K4T2A
		25V	.47µF	±10%	1.27	478-3621-1-ND	11.00	65.00	187.50	478-3621-2-ND	2,000	180.00/M	12063F474K4T2A
	X5R	25V	2.2µF	±10%	1.78	478-1569-1-ND	8.80	52.00	150.00	478-1569-2-ND	2,500	144.00/M	12063D225KAT2A
			4.7µF	±10%	1.78	478-1570-1-ND	9.35	55.25	159.38	478-1570-2-ND	2,500	153.00/M	12063D475KAT2A
			4.7µF	±20%	2.79	478-2577-1-ND	11.00	65.00	187.50	478-2577-2-ND	2,500	180.00/M	12063D475MAT2A
		16V	2.2µF	±10%	1.78	478-1571-1-ND	10.01	59.15	170.63	478-1571-2-ND	2,500	164.00/M	1206YD225KAT2A
			4.7µF	±10%	1.78	478-1572-1-ND	20.35	120.25	346.88	478-1572-2-ND	2,500	333.00/M	1206YD475KAT2A
			10µF	±10%	1.78	478-1573-1-ND	11.00	65.00	187.50	478-1573-2-ND	2,500	180.00/M	1206YD106KAT2A
			10µF	±20%	1.78	478-3811-1-ND	16.50	97.50	281.25	478-3811-2-ND	2,500	270.00/M	1206YD106MAT2A
		10V	4.7µF	±10%	1.78	478-1574-1-ND	9.90	58.50	168.75	478-1574-2-ND	2,000	162.00/M	1206ZD475KAT2A
			10µF	±10%	1.78	478-1575-1-ND	12.10	71.50	206.25	478-1575-2-ND	2,000	198.00/M	1206ZD106KAT2A
		6.3V	10µF	±10%	1.78	478-2578-1-ND	7.70	45.50	131.25	478-2578-2-ND	4,000	126.00/M	12066D106KAT2A
			10µF	±20%	1.78	478-2579-1-ND	11.00	65.00	187.50	478-2579-2-ND	4,000	180.00/M	12066D106MAT2A
			22µF	±10%	1.78	478-1576-1-ND	19.80	117.00	337.50	478-1576-2-ND	2,500	324.00/M	12066D226KAT2A
			22µF	±20%	1.78	478-3802-1-ND	16.50	97.50	281.25	478-3802-2-ND	2,500	270.00/M	12066D226MAT2A
			47µF	±20%	1.78	478-4532-1-ND	16.88	140.63	468.75	478-4532-2-ND	2,500	675.00/M	12066D476MAT2A

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
1206	Y5V	50V	.10µF	+80 -20%	0.94	478-1577-1-ND	3.30	19.50	56.25	478-1577-2-ND	4,000	54.00/M	12065G104ZAT2A
			.22µF	+80 -20%	0.94	478-1578-1-ND	6.05	35.75	103.13	478-1578-2-ND	4,000	99.00/M	12065G224ZAT2A
			.47µF	+80 -20%	0.94	478-1579-1-ND	4.95	29.25	84.38	478-1579-2-ND	3,000	81.00/M	12065G474ZAT2A
			1.0µF	+80 -20%	0.94	478-1580-1-ND	3.85	22.75	65.63	478-1580-2-ND	4,000	63.00/M	12065G105ZAT2A
		25V	2.2µF	+80 -20%	1.27	478-1581-1-ND	5.50	32.50	93.75	478-1581-2-ND	3,000	90.00/M	12063G225ZAT2A
		16V	2.2µF	+80 -20%	1.27	478-3812-1-ND	15.62	92.30	266.25	478-3812-2-ND	3,000	256.00/M	1206YG225ZAT2A
			4.7µF	+80 -20%	1.52	478-1582-1-ND	8.80	52.00	150.00	478-1582-2-ND	3,000	144.00/M	1206YG475ZAT2A
		10V	10µF	+80 -20%	1.78	478-1583-1-ND	11.00	65.00	187.50	478-1583-2-ND	2,500	180.00/M	1206ZG106ZAT2A
1210	C0G (NP0)	2000V	100pF	±5%	1.78	478-4002-1-ND	20.90	123.50	356.25	478-4002-2-ND	2,000	342.00/M	1210GA101JAT1A
		200V	680pF	±5%	0.94	478-1584-1-ND	9.35	55.25	159.38	478-1584-2-ND	4,000	153.00/M	12102A681JAT2A
			1000pF	±5%	0.94	478-1585-1-ND	9.35	55.25	159.38	478-1585-2-ND	4,000	153.00/M	12102A102JAT2A
			1500pF	±5%	1.27	478-1586-1-ND	9.90	58.50	168.75	478-1586-2-ND	2,000	162.00/M	12102A152JAT2A
			2200pF	±5%	1.78	478-1587-1-ND	13.75	81.25	234.38	478-1587-2-ND	2,000	225.00/M	12102A222JAT2A
		100V	680pF	±5%	0.94	478-1588-1-ND	4.95	29.25	84.38	478-1588-2-ND	4,000	81.00/M	12101A681JAT2A
			1000pF	±5%	0.94	478-1589-1-ND	4.95	29.25	84.38	478-1589-2-ND	4,000	81.00/M	12101A102JAT2A
			1500pF	±5%	0.94	478-1590-1-ND	7.15	42.25	121.88	478-1590-2-ND	4,000	117.00/M	12101A152JAT2A
			2200pF	±5%	1.27	478-1591-1-ND	7.15	42.25	121.88	478-1591-2-ND	4,000	117.00/M	12101A222JAT2A
			3300pF	±5%	1.27	478-1592-1-ND	7.15	42.25	121.88	478-1592-2-ND	4,000	117.00/M	12101A332JAT2A
		50V	680pF	±5%	0.94	478-1594-1-ND	4.95	29.25	84.38	478-1594-2-ND	4,000	81.00/M	12105A681JAT2A
			1000pF	±5%	0.94	478-1595-1-ND	4.95	29.25	84.38	478-1595-2-ND	4,000	81.00/M	12105A102JAT2A
			1500pF	±5%	0.94	478-1596-1-ND	7.15	42.25	121.88	478-1596-2-ND	4,000	117.00/M	12105A152JAT2A
			2200pF	±5%	0.94	478-1597-1-ND	7.15	42.25	121.88	478-1597-2-ND	4,000	117.00/M	12105A222JAT2A
			3300pF	±5%	0.94	478-1598-1-ND	7.15	42.25	121.88	478-1598-2-ND	4,000	117.00/M	12105A332JAT2A
			6800pF	±5%	0.94	478-1600-1-ND	28.05	165.75	478.13	—	—	—	12105A682JAT2A
	X7R	2000V	820pF	±10%	1.70	478-2961-1-ND	22.00	130.00	375.00	478-2961-2-ND	2,000	360.00/M	1210GC821KAT1A
			1000pF	±10%	1.70	478-2960-1-ND	22.00	130.00	375.00	478-2960-2-ND	2,000	360.00/M	1210GC102KAT1A
		1500V	2700pF	±20%	1.70	478-2962-1-ND	20.90	123.50	356.25	478-2962-2-ND	2,000	342.00/M	1210SC272MAT1A
		1000V	4700pF	±10%	1.78	478-4001-1-ND	20.90	123.50	356.25	478-4001-2-ND	2,000	342.00/M	1210AC472KAT1A
			10000pF	±10%	1.70	478-2958-1-ND	22.00	130.00	375.00	478-2958-2-ND	2,000	360.00/M	1210AC103KAT1A
		630V	22000pF	±10%	1.70	478-2959-1-ND	22.00	130.00	375.00	478-2959-2-ND	2,000	360.00/M	1210CC223KAT1A
		500V	10000pF	±10%	1.27	478-3822-1-ND	17.60	104.00	300.00	478-3822-2-ND	2,000	288.00/M	12107C103KAT2A
		200V	.10µF	±10%	0.94	478-3815-1-ND	11.00	65.00	187.50	478-3815-2-ND	2,000	180.00/M	12102C104KAT2A
		100V	1000pF	±10%	0.94	478-1602-1-ND	5.50	32.50	93.75	478-1602-2-ND	4,000	90.00/M	12101C102KAT2A
			1500pF	±10%	0.94	478-1603-1-ND	4.95	29.25	84.38	478-1603-2-ND	4,000	81.00/M	12101C152KAT2A
			2200pF	±10%	0.94	478-1604-1-ND	5.50	32.50	93.75	478-1604-2-ND	4,000	90.00/M	12101C222KAT2A
			3300pF	±10%	0.94	478-1605-1-ND	5.50	32.50	93.75	478-1605-2-ND	4,000	90.00/M	12101C332KAT2A
			4700pF	±10%	0.94	478-1606-1-ND	5.50	32.50	93.75	478-1606-2-ND	4,000	90.00/M	12101C472KAT2A
			6800pF	±10%	0.94	478-1607-1-ND	5.50	32.50	93.75	478-1607-2-ND	4,000	90.00/M	12101C682KAT2A
			10000pF	±10%	0.94	478-1608-1-ND	5.50	32.50	93.75	478-1608-2-ND	4,000	90.00/M	12101C103KAT2A
			15000pF	±10%	0.94	478-1609-1-ND	5.50	32.50	93.75	478-1609-2-ND	4,000	90.00/M	12101C153KAT2A
			22000pF	±10%	0.94	478-1610-1-ND	5.50	32.50	93.75	478-1610-2-ND	4,000	90.00/M	12101C223KAT2A
			33000pF	±10%	0.94	478-1611-1-ND	5.50	32.50	93.75	478-1611-2-ND	4,000	90.00/M	12101C333KAT2A
			47000pF	±10%	0.94	478-1612-1-ND	5.50	32.50	93.75	478-1612-2-ND	4,000	90.00/M	12101C473KAT2A
			68000pF	±10%	0.94	478-1613-1-ND	5.50	32.50	93.75	478-1613-2-ND	4,000	90.00/M	12101C683KAT2A
			.10µF	±10%	0.94	478-1614-1-ND	5.50	32.50	93.75	478-1614-2-ND	4,000	90.00/M	12101C104KAT2A
			.10µF	±5%	0.94	478-3813-1-ND	5.72	33.80	97.50	478-3813-2-ND	4,000	94.00/M	12101C104JAT2A
			.10µF	±20%	0.94	478-3814-1-ND	4.95	29.25	84.38	478-3814-2-ND	4,000	81.00/M	12101C104MAT2A
			.15µF	±10%	1.27	478-1615-1-ND	6.82	40.30	116.25	478-1615-2-ND	2,000	112.00/M	12101C154KAT2A
			.22µF	±10%	1.52	478-1616-1-ND	7.70	45.50	131.25	478-1616-2-ND	2,000	126.00/M	12101C224KAT2A
			.47µF	±10%	2.79	478-2568-1-ND	7.70	45.50	131.25	478-2568-2-ND	1,000	126.00	12101C474KAT2A
			.68µF	±10%	2.79	478-2569-1-ND	19.80	117.00	337.50	478-2569-2-ND	2,000	324.00/M	12101C684KAT2A
			1.0µF	±10%	2.79	478-2570-1-ND	14.30	84.50	243.75	478-2570-2-ND	1,000	234.00	12101C105KAT2A
			1.0µF	±20%	2.79	478-2571-1-ND	14.30	84.50	243.75	478-2571-2-ND	1,000	234.00	12101C105MAT2A
		50V	.10µF	±10%	0.94	478-1617-1-ND	8.80	52.00	150.00	478-1617-2-ND	4,000	144.00/M	12105C104KAT2A
			.15µF	±10%	0.94	478-1618-1-ND	6.82	40.30	116.25	478-1618-2-ND	4,000	112.00/M	12105C154KAT2A
			.22µF	±10%	0.94	478-1619-1-ND	6.82	40.30	116.25	478-1619-2-ND	4,000	112.00/M	12105C224KAT2A
			.22µF	±20%	0.94	478-3819-1-ND	6.60	39.00	112.50	478-3819-2-ND	4,000	108.00/M	12105C224MAT2A
			.33µF	±10%	0.94	478-1620-1-ND	12.10	71.50	206.25	478-1620-2-ND	4,000	198.00/M	12105C334KAT2A
			.33µF	±20%	0.94	478-3820-1-ND	9.24	54.60	157.50	478-3820-2-ND	4,000	151.00/M	12105C334MAT2A
			.47µF	±10%	1.27	478-1621-1-ND	12.10	71.50	206.25	478-1621-2-ND	2,000	198.00/M	12105C474KAT2A
			.47µF	±20%	1.27	478-3821-1-ND	9.24	54.60	157.50	478-3821-2-ND	2,000	151.00/M	12105C474MAT2A
			1.0µF	±10%	2.29	478-1622-1-ND	11.00	65.00	187.50	478-1622-2-ND	2,000	180.00/M	12105C105KAT2A
		25V	2.2µF	±10%	2.29	478-1623-1-ND	16.50	97.50	281.25	478-1623-2-ND	2,000	270.00/M	12103C225KAT2A
			1.0µF	±10%	1.52	478-3816-1-ND	19.80	117.00	337.50	478-3816-2-ND	3,000	324.00/M	12103C105KAT2A
			1.0µF	±20%	1.52	478-3817-1-ND	12.87	76.05	219.38	478-3817-2-ND	3,000	211.00/M	12103C105MAT2A
		16V	4.7µF	±10%	2.79	478-1624-1-ND	23.65	139.75	403.13	478-1624-2-ND	1,000	387.00	1210YC475KAT2A
			22µF	±20%	2.79	478-4594-1-ND	22.50	187.50	625.00	478-4594-2-ND	1,000	900.00	1210YC226MAT2A
		10V	10µF	±10%	2.79	478-1625-1-ND	29.15	172.25	496.88	478-1625-2-ND	1,000	477.00	1210ZC106KAT2A
	X5R	25V	4.7µF	±10%	2.79	478-1626-1-ND	15.40	91.00	262.50	478-1626-2-ND	1,000	252.00	12103D475KAT2A
			10µF	±10%	2.29	478-1627-1-ND	19.80	117.00	337.50	478-1627-2-ND	2,000	324.00/M	12103D106KAT2A
		16V	4.7µF	±10%	1.78	478-1628-1-ND	17.60	104.00	300.00	478-1628-2-ND	2,500	288.00/M	1210YD475KAT2A
			10µF	±10%	2.29	478-1629-1-ND	16.50	97.50	281.25	478-1629-2-ND	2,000	270.00/M	1210YD106KAT2A
			10µF	±20%	2.79	478-2572-1-ND	29.70	175.50	506.25	478-2572-2-ND	2,000	486.00/M	1210YD106MAT2A
			22µF	±10%	2.79	478-1630-1-ND	34.10	201.50	581.25	478-1630-2-ND	1,000	558.00	1210YD226KAT2A
		10V	10µF	±10%	2.29	478-1631-1-ND	22.55	133.25	384.38	478-1631-2-ND	2,000	369.00/M	1210ZD106KAT2A
			22µF	±20%	2.79	478-3650-1-ND	35.20	208.00	600.00	478-3650-2-ND	1,000	576.00	1210ZD226MAT2A
			22µF	±10%	2.79	478-1632-1-ND	35.20	208.00	600.00	478-1632-2-ND	1,000	576.00	1210ZD226KAT2A
		6.3V	22µF	±20%	2.79	478-2573-1-ND	41.80	247.00	712.50	478-2573-2-ND	1,000	684.00	12106D226MAT2A
			47µF	±20%	2.79	478-2574-1-ND	78.10	461.50	1331.25	478-2574-2-ND	1,000	1278.00	12106D476MAT2A
			47µF	±10%	2.79	478-1633-1-ND	78.10	461.50	1331.25	478-1633-2-ND	1,000	1278.00	12106D476KAT2A
			22µF	±10%	2.79	478-3649-1-ND	47.30	279.50	806.25	478-3649-2-ND	1,000	774.00	12106D226KAT2A
			100µF	±20%	2.79	478-2575-1-ND	78.10	461.50	1331.25	478-2575-2-ND	1,000	1278.00	12106D107MAT2A
	Y5V	25V	4.7µF	+80 -20%	1.40	478-3818-1-ND	38.50	227.50	656.25	478-3818-2-ND	3,000	630.00/M	12103G475ZAT2A
			10µF	+80 -20%	1.78	478-3651-1-ND	66.00	390.00	1125.00	478-3651-2-ND	2,500	1080.00/M	12103G106ZAT2A
		16V	10µF	+80 -20%	1.78	478-1634-1-ND	29.70	175.50	506.25	478-1634-2-ND	2,500	486.00/M	1210YG106ZAT2A
		10V	22µF	+80 -20%	2.29	478-1635-1-ND	43.45	256.75	740.63	478-1635-2-ND	2,000	711.00/M	1210ZG226ZAT2A
1808	C0G (NP0)	4000V	33pF	±10%	2.03	478-4726-1-ND ***NEW!***	24.20	143.00	412.50	478-4726-2-ND ***NEW!***	2,000	396.00/M	1808JA330KAT1A
		3000V	27pF	±10%	2.03	478-2978-1-ND	33.00	195.00	562.50	478-2978-2-ND	2,000	540.00/M	1808HA270KAT1A
			33pF	±10%	2.03	478-2979-1-ND	33.00	195.00	562.50	478-2979-2-ND	2,000	540.00/M	1808HA330KAT1A
			47pF	±10%	2.03	478-4723-1-ND ***NEW!***	22.00	130.00	375.00	478-4723-2-ND ***NEW!***	2,000	360.00/M	1808HA470KAT1A
			82pF	±10%	2.03	478-2980-1-ND	33.00	195.00	562.50	478-2980-2-ND	2,000	540.00/M	1808HA820KAT1A
		2000V	220pF	±5%	2.03	478-2973-1-ND	39.60	234.00	675.00	478-2973-2-ND	2,000	648.00/M	1808GA221JAT1A
		1000V	47pF	±10%	2.03	478-2963-1-ND	33.00	195.00	562.50	478-2963-2-ND	2,000	540.00/M	1808AA470KAT1A
			68pF	±10%	2.03	478-2965-1-ND	33.00	195.00	562.50	478-2965-2-ND	2,000	540.00/M	1808AA680KAT1A
			560pF	±5%	2.03	478-2964-1-ND	39.60	234.00	675.00	478-2964-2-ND	2,000	648.00/M	1808AA561JAT1A
	X7R	3000V	1000pF	±20%	2.03	478-4724-1-ND ***NEW!***	16.50	97.50	281.25	478-4724-2-ND ***NEW!***	2,000	270.00/M	1808HC102MAT1A
			1000pF	±10%	2.03	478-2981-1-ND	33.00	195.00	562.50	478-2981-2-ND	2,000	540.00/M	1808HC102KAT1A

(Continued)

AVX Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
							10	100	500		Qty.	Pricing	
1808	X7R	3000V	1500pF	±10%	2.03	478-4725-1-ND ***NEW!***	22.00	130.00	375.00	478-4725-2-ND ***NEW!***	2,000	360.00/M	1808HC152KAT1A
		2500V	1000pF	±10%	2.03	478-2983-1-ND	33.00	195.00	562.50	478-2983-2-ND	2,000	540.00/M	1808WC102KAT1A
			1200pF	±10%	2.03	478-2984-1-ND	33.00	195.00	562.50	478-2984-2-ND	2,000	540.00/M	1808WC122KAT1A
		2000V	100pF	±10%	1.78	478-4004-1-ND	30.80	182.00	525.00	478-4004-2-ND	2,000	504.00/M	1808GC101KAT1A
			330pF	±20%	2.03	478-2977-1-ND	31.35	185.25	534.38	478-2977-2-ND	2,000	513.00/M	1808GC331MAT1A
			470pF	±10%	1.78	478-4005-1-ND	30.80	182.00	525.00	478-4005-2-ND	2,000	504.00/M	1808GC471KAT1A
			1000pF	±10%	2.03	478-2974-1-ND	33.00	195.00	562.50	478-2974-2-ND	2,000	540.00/M	1808GC102KAT1A
			1000pF	±20%	2.03	478-2975-1-ND	31.08	183.63	529.69	478-2975-2-ND	2,000	509.00/M	1808GC102MAT1A
			1500pF	±10%	2.03	478-2976-1-ND	33.00	195.00	562.50	478-2976-2-ND	2,000	540.00/M	1808GC152KAT1A
		1500V	1000pF	±10	2.03	478-2982-1-ND	33.00	195.00	562.50	478-2982-2-ND	2,000	540.00/M	1808SC102KAT1A
		1000V	1000pF	±10%	2.03	478-2966-1-ND	33.00	195.00	562.50	478-2966-2-ND	2,000	540.00/M	1808AC102KAT1A
			3300pF	±10%	2.03	478-2969-1-ND	33.00	195.00	562.50	478-2969-2-ND	2,000	540.00/M	1808AC332KAT1A
			6800pF	±10%	2.03	478-2970-1-ND	33.00	195.00	562.50	478-2970-2-ND	2,000	540.00/M	1808AC682KAT1A
			10000pF	±10%	2.03	478-2967-1-ND	33.00	195.00	562.50	478-2967-2-ND	2,000	540.00/M	1808AC103KAT1A
			10000pF	±20%	1.78	478-4003-1-ND	30.80	182.00	525.00	478-4003-2-ND	2,000	504.00/M	1808AC103MAT1A
			15000pF	±10%	2.03	478-2968-1-ND	33.00	195.00	562.50	478-2968-2-ND	2,000	540.00/M	1808AC153KAT1A
		630V	3300pF	±20%	2.03	478-2971-1-ND	31.08	183.63	529.69	—	—	—	1808CC332MAT1A
			39000pF	±10%	2.03	478-2972-1-ND	33.00	195.00	562.50	478-2972-2-ND	2,000	540.00/M	1808CC393KAT1A
1812	C0G (NP0)	4000V	27pF	±10%	2.54	478-4716-1-ND ***NEW!***	24.20	143.00	412.50	478-4716-2-ND ***NEW!***	1,000	396.00	1812JA270KAT1A
			47pF	±5%	2.54	478-4734-1-ND ***NEW!***	30.80	182.00	525.00	478-4734-2-ND ***NEW!***	1,000	504.00	1812JA470JAT1A
		3000V	47pF	±5%	2.54	478-3005-1-ND	42.24	249.60	720.00	478-3005-2-ND	1,000	691.00	1812HA470JAT1A
			100pF	±10%	2.54	478-4729-1-ND ***NEW!***	25.30	149.50	431.25	478-4729-2-ND ***NEW!***	1,000	414.00	1812HA101KAT1A
			220pF	±5%	2.54	478-4730-1-ND ***NEW!***	30.80	182.00	525.00	478-4730-2-ND ***NEW!***	1,000	504.00	1812HA221JAT1A
			220pF	±10%	2.54	478-4731-1-ND ***NEW!***	28.60	169.00	487.50	478-4731-2-ND ***NEW!***	1,000	468.00	1812HA221KAT1A
			330pF	±10%	2.54	478-3004-1-ND	35.20	208.00	600.00	478-3004-2-ND	1,000	576.00	1812HA331KAT1A
		2500V	100pF	±10%	2.54	478-3011-1-ND	35.20	208.00	600.00	478-3011-2-ND	1,000	576.00	1812WA101KAT1A
		2000V	150pF	±5%	2.54	478-4728-1-ND ***NEW!***	29.70	175.50	506.25	478-4728-2-ND ***NEW!***	1,000	486.00	1812GA151JAT1A
			470pF	±5%	2.54	478-2999-1-ND	42.24	249.60	720.00	478-2999-2-ND	1,000	691.00	1812GA471JAT1A
		1500V	560pF	±10%	2.54	478-3008-1-ND	35.20	208.00	600.00	478-3008-2-ND	1,000	576.00	1812SA561KAT1A
		1000V	100pF	±5%	2.54	478-4727-1-ND ***NEW!***	28.60	169.00	487.50	478-4727-2-ND ***NEW!***	1,000	468.00	1812AA101JAT1A
			100pF	±10%	2.54	478-2985-1-ND	35.20	208.00	600.00	478-2985-2-ND	1,000	576.00	1812AA101KAT1A
			220pF	±10%	2.54	478-2987-1-ND	35.20	208.00	600.00	478-2987-2-ND	1,000	576.00	1812AA221KAT1A
			470pF	±5%	2.54	478-2988-1-ND	42.24	249.60	720.00	478-2988-2-ND	1,000	691.00	1812AA471JAT1A
			1000pF	±20%	2.54	478-2986-1-ND	33.44	197.60	570.00	478-2986-2-ND	1,000	547.00	1812AA102MAT1A
		50V	.01µF	±5%	1.52	478-1636-1-ND	24.20	143.00	412.50	478-1636-2-ND	1,000	396.00	18125A103JAT2A
			.015µF	±5%	1.52	478-1637-1-ND	41.25	243.75	703.13	478-1637-2-ND	1,000	675.00	18125A153JAT2A
	X7R	3000V	470pF	±10%	2.54	478-3007-1-ND	35.20	208.00	600.00	478-3007-2-ND	1,000	576.00	1812HC471KAT1A
			1000pF	±10%	2.54	478-3006-1-ND	35.20	208.00	600.00	478-3006-2-ND	1,000	576.00	1812HC102KAT1A
			1000pF	±20%	2.54	478-4732-1-ND ***NEW!***	16.50	97.50	281.25	478-4732-2-ND ***NEW!***	1,000	270.00	1812HC102MAT1A
			2200pF	±10%	2.54	478-4733-1-ND ***NEW!***	22.00	130.00	375.00	478-4733-2-ND ***NEW!***	1,000	360.00	1812HC222KAT1A
		2500V	1200pF	±20%	2.54	478-3012-1-ND	33.44	197.60	570.00	—	—	—	1812WC122MAT1A
			3300pF	±10%	2.54	478-4736-1-ND ***NEW!***	24.20	143.00	412.50	478-4736-2-ND ***NEW!***	1,000	396.00	1812WC332KAT1A
		2000V	1000pF	±10%	2.54	478-3000-1-ND	35.20	208.00	600.00	478-3000-2-ND	1,000	576.00	1812GC102KAT1A
			1000pF	±20%	2.54	478-3001-1-ND	33.44	197.60	570.00	478-3001-2-ND	1,000	547.00	1812GC102MAT1A
			2700pF	±10%	2.54	478-3002-1-ND	35.20	208.00	600.00	478-3002-2-ND	1,000	576.00	1812GC272KAT1A
			4700pF	±10%	2.54	478-3003-1-ND	35.20	208.00	600.00	478-3003-2-ND	1,000	576.00	1812GC472KAT1A
		1500V	4700pF	±10%	2.54	478-3009-1-ND	35.20	208.00	600.00	478-3009-2-ND	1,000	576.00	1812SC472KAT1A
			5600pF	±10%	2.54	478-3010-1-ND	35.20	208.00	600.00	478-3010-2-ND	1,000	576.00	1812SC562KAT1A
			10000pF	±10%	2.54	478-4735-1-ND ***NEW!***	26.40	156.00	450.00	478-4735-2-ND ***NEW!***	1,000	432.00	1812SC103KAT1A
		1000V	1000pF	±10%	2.54	478-2989-1-ND	35.20	208.00	600.00	478-2989-2-ND	1,000	576.00	1812AC102KAT1A
			4700pF	±10%	2.54	478-2993-1-ND	35.20	208.00	600.00	478-2993-2-ND	1,000	576.00	1812AC472KAT1A
			5000pF	±10%	2.54	478-2994-1-ND	35.20	208.00	600.00	478-2994-2-ND	1,000	576.00	1812AC502KAT1A
			10000pF	±10%	2.54	478-2990-1-ND	35.20	208.00	600.00	478-2990-2-ND	1,000	576.00	1812AC103KAT1A
			22000pF	±10%	2.54	478-2991-1-ND	35.20	208.00	600.00	478-2991-2-ND	1,000	576.00	1812AC223KAT1A
			27000pF	±10%	2.54	478-2992-1-ND	35.20	208.00	600.00	478-2992-2-ND	1,000	576.00	1812AC273KAT1A
		630V	.10µF	±10%	2.00	478-4009-1-ND	33.00	195.00	562.50	478-4009-2-ND	1,000	540.00	1812CC104KAT1A
			22000pF	±10%	2.54	478-2995-1-ND	35.20	208.00	600.00	478-2995-2-ND	1,000	576.00	1812CC223KAT1A
			33000pF	±10%	2.54	478-2996-1-ND	35.20	208.00	600.00	478-2996-2-ND	1,000	576.00	1812CC333KAT1A
			47000pF	±10%	2.54	478-2997-1-ND	35.20	208.00	600.00	478-2997-2-ND	1,000	576.00	1812CC473KAT1A
			68000pF	±10%	2.54	478-2998-1-ND	35.20	208.00	600.00	478-2998-2-ND	1,000	576.00	1812CC683KAT1A
		200V	.10µF	10%	1.02	478-3823-1-ND	27.50	162.50	468.75	478-3823-2-ND	1,000	450.00	18122C104KAT2A
		100V	.22µF	±10%	1.02	478-1640-1-ND	18.70	110.50	318.75	478-1640-2-ND	1,000	306.00	18121C224KAT2A
			.47µF	±10%	1.52	478-1641-1-ND	26.95	159.25	459.38	478-1641-2-ND	1,000	441.00	18121C474KAT2A
			1.0µF	±10%	2.29	478-1642-1-ND	33.55	198.25	—	478-1642-2-ND	700	384.30	18121C105KAT2A
		50V	.33µF	10%	1.02	478-3825-1-ND	24.75	146.25	421.88	478-3825-2-ND	1,000	405.00	18125C334KAT2A
			.47µF	±10%	1.02	478-3826-1-ND	41.80	247.00	712.50	478-3826-2-ND	1,000	684.00	18125C474KAT2A
			.47µF	20%	1.02	478-3827-1-ND	38.50	227.50	656.25	478-3827-2-ND	1,000	630.00	18125C474MAT2A
			.68µF	10%	1.27	478-3828-1-ND	41.80	247.00	712.50	478-3828-2-ND	1,000	684.00	18125C684KAT2A
			1.0µF	±10%	1.27	478-1643-1-ND	28.05	165.75	478.13	478-1643-2-ND	1,000	459.00	18125C105KAT2A
			1.0µF	20%	1.27	478-3824-1-ND	31.90	188.50	543.75	478-3824-2-ND	1,000	522.00	18125C105MAT2A
			2.2µF	±10%	2.79	478-2567-1-ND	29.70	175.50	—	478-2567-2-ND	500	243.00	18125C225KAT2A
	X5R	25V	10µF	±10%	2.79	478-1644-1-ND	45.65	269.75	—	478-1644-2-ND	500	373.50	18123D106KAT2A
		10V	22µF	±10%	2.79	478-1645-1-ND	45.65	269.75	—	478-1645-2-ND	500	373.50	1812ZD226KAT2A
		6.3V	47µF	±10%	2.79	478-1646-1-ND	82.50	487.50	—	478-1646-2-ND	500	675.00	18126D476KAT2A
1825	C0G (NP0)	3000V	220pF	±10%	2.54	478-3017-1-ND	46.20	273.00	787.50	478-3017-2-ND	1,000	756.00	1825HA221KAT1A
		2500V	1000pF	±10%	2.54	478-4738-1-ND ***NEW!***	38.50	227.50	656.25	478-4738-2-ND ***NEW!***	1,000	630.00	1825WA102KAT1A
		1000V	3300pF	±5%	2.54	478-3013-1-ND	55.44	327.60	—	478-3013-2-ND	500	453.50	1825AA332JAT1A
	X7R	4000V	1000pF	±10%	2.54	478-4737-1-ND ***NEW!***	38.50	227.50	656.25	478-4737-2-ND ***NEW!***	1,000	630.00	1825JC102KAT1A
		2500V	5600pF	±10%	2.54	478-3018-1-ND	46.20	273.00	787.50	478-3018-2-ND	1,000	756.00	1825WC562KAT1A
		2000V	1000pF	±10%	2.00	478-4007-1-ND	42.90	253.50	731.25	478-4007-2-ND	1,000	702.00	1825GC102KAT1A
			10000pF	±10%	2.00	478-4008-1-ND	42.90	253.50	731.25	478-4008-2-ND	1,000	702.00	1825GC103KAT1A
		1000V	.10µF	±10%	2.00	478-4006-1-ND	42.90	253.50	731.25	478-4006-2-ND	1,000	702.00	1825AC104KAT1A
			47000pF	±10%	2.54	478-3014-1-ND	46.20	273.00	787.50	478-3014-2-ND	1,000	756.00	1825AC473KAT1A
		630V	.10µF	±10%	2.54	478-3015-1-ND	46.20	273.00	787.50	478-3015-2-ND	1,000	756.00	1825CC104KAT1A
			.15µF	±10%	2.54	478-3016-1-ND	46.20	273.00	787.50	478-3016-2-ND	1,000	756.00	1825CC154KAT1A
		50V	1.0µF	±10%	1.27	478-3829-1-ND	49.50	292.50	843.75	478-3829-2-ND	1,000	810.00	18255C105KAT2A
2220	X7R	2000V	10000pF	±10%	3.30	478-3020-1-ND	85.80	507.00	1462.50	478-3020-2-ND	1,000	1404.00	2220GC103KAT1A
			10000pF	±20%	3.30	478-4739-1-ND ***NEW!***	66.00	390.00	1125.00	478-4739-2-ND ***NEW!***	1,000	1080.00	2220GC103MAT1A
		50V	1.0µF	±10%	3.30	478-3019-1-ND	85.80	507.00	1462.50	478-3019-2-ND	1,000	1404.00	22205C105KAT1A
2225	C0G	1000V	8200pF	±10%	2.54	478-3022-1-ND	85.80	507.00	—	478-3022-2-ND	500	702.00	2225AA822KAT1A
	X7R	2000V	10000pF	±10%	2.54	478-3024-1-ND	85.80	507.00	1462.50	478-3024-2-ND	1,000	1404.00	2225GC103KAT1A
		2500V	10000pF	±10%	2.54	478-4742-1-ND ***NEW!***	71.50	422.50	1218.75	478-4742-2-ND ***NEW!***	1,000	1170.00	2225WC103KAT1A
		1000V	.10µF	±10%	2.54	478-4741-1-ND ***NEW!***	71.50	422.50	1218.75	478-4741-2-ND ***NEW!***	1,000	1170.00	2225AC104KAT1A
		630V	.10µF	±10%	2.54	478-4717-1-ND ***NEW!***	77.00	455.00	1312.50	478-4717-2-ND ***NEW!***	1,000	1260.00	2225CC104KAT1A
			.22µF	±10%	2.54	478-3023-1-ND	85.80	507.00	1462.50	478-3023-2-ND	1,000	1404.00	2225CC224KAT1A
		200V	.33µF	±10%	2.54	478-3021-1-ND	85.80	507.00	1462.50	478-3021-2-ND	1,000	1404.00	22252C334KAT1A

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Flexisafe Multilayer Ceramic Chip Capacitors

For Ultra Safety Critical Applications

AVX has developed a range of components specifically for safety critical applications. Utilizing the award-winning FLEXITERM™ layer in conjunction with the cascade (MLSC) design previously used for high voltage MLCC's, a range of ceramic capacitors is now available for customers who require components designed with an industry leading set of safety features. The FLEXITERM layer protects the component from any damage to the ceramic resulting from mechanical stress during PCB assembly or use with end customers. Board flexure type mechanical damage accounts for the majority of MLCC failures. The addition of the cascade (MLSC) structure protects the component from low insulation resistance failure resulting from other common causes for failure: thermal stress damage, repetitive strike ESD damage, and placement damage. With the inclusion of the cascade design structure to complement the FLEXITERM layer, the FLEXISAFE series of capacitors has unbeatable safety features.

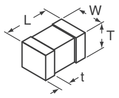

Size Code	Dimensions (mm)		
	L	W	t
0805	2.01±0.20	1.25±0.20	0.50±0.25
1206	3.20±0.20	1.60±0.20	0.50±0.25

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T Max (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0805	X7R	50V	1000pF	±10%	—	478-4317-1-ND	3.74	22.10	63.75	478-4317-2-ND	2,000	61.00/M	FS055C102KAZ2A
			10000pF	±10%	—	478-4316-1-ND	3.74	22.10	63.75	478-4316-2-ND	2,000	61.00/M	FS055C103KAZ2A
			.10µF	±10%	—	478-4315-1-ND	4.95	29.25	84.38	478-4315-2-ND	2,000	81.00/M	FS055C104KAZ2A
1206	X7R	50V	1000pF	±10%	1.0	478-4643-1-ND	4.40	26.00	75.00	478-4643-2-ND	4,000	72.00/M	FS065C102KAZ2A
			3300pF	±10%	1.2	478-4644-1-ND	4.40	26.00	75.00	478-4644-2-ND	2,000	72.00/M	FS065C332KAZ2A

Multilayer Ceramic Chip Capacitors with Soft Termination

With increased requirements from the automotive industry for additional component robustness, AVX recognized the need to produce a MLCC with enhanced mechanical strength. It was noted that many components may be subject to severe flexing and vibration when used in various under-the-bonnet automotive applications. To satisfy the requirement for enhanced mechanical strength, AVX had to find a way of ensuring electrical integrity is maintained whilst external forces are being applied to the component. It was found that the structure of the termination needed to be flexible and after much research and development, a "soft termination" was found. This soft termination is designed to enhance the mechanical flexure and temperature cycling performance of a standard ceramic capacitor with a X7R dielectric. The industry standard for flexure is 2mm minimum. With Soft Termination, AVX guarantees a minimum flexure of 5mm, without any internal cracks. Beyond 5mm, generally the component will open. The industry standard for temperature cycling is 1,000 cycles - AVX guarantees 3,000 cycles. As well as for automotive applications, the soft termination will provide design engineers with a satisfactory solution when designing PCBs which may be subject to high levels of board flexure. **Features:** • High mechanical performance able to withstand 5mm bend test guaranteed • Open failure mode is apparent when products are overstressed by 5mm • Increased temperature cycling performance for 3000 cycles and beyond • Reduction in circuit board flex failures • Base metal electrode system.

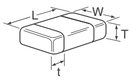

Size Code	Dimensions (mm)		
	L	W	t
0603	1.60±0.15	0.81±0.15	0.35±0.15
0805	2.01±0.20	1.25±0.20	0.50±0.25
1206	3.20±0.20	1.60±0.20	0.50±0.25
1210	3.20±0.20	2.50±0.20	0.50±0.25
1808	4.57±0.25	2.03±0.25	0.64±0.39
1812	4.50±0.30	3.20±0.20	0.61±0.36
1825	4.50±0.30	6.40±0.30	0.64±0.39
2220	5.70±0.40	5.00±0.40	0.64±0.39
2225	5.72±0.25	6.35±0.25	0.64±0.39

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T Max (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0603	X7R	50V	1000pF	±10%	0.94	478-3526-1-ND	2.93	17.29	49.88	478-3526-2-ND	4,000	48.00/M	06035C102KAZ2A
			1500pF	±10%	0.94	478-3527-1-ND	2.93	17.29	49.88	478-3527-2-ND	4,000	48.00/M	06035C152KAZ2A
			2200pF	±10%	0.94	478-3528-1-ND	2.77	16.38	47.25	478-3528-2-ND	4,000	45.00/M	06035C222KAZ2A
			3300pF	±10%	0.94	478-3529-1-ND	2.93	17.29	49.88	478-3529-2-ND	4,000	48.00/M	06035C332KAZ2A
			4700pF	±10%	0.94	478-3530-1-ND	2.93	17.29	49.88	478-3530-2-ND	4,000	48.00/M	06035C472KAZ2A
			6800pF	±10%	0.94	478-3531-1-ND	2.93	17.29	49.88	478-3531-2-ND	4,000	48.00/M	06035C682KAZ2A
			10000pF	±10%	0.94	478-3532-1-ND	2.93	17.29	49.88	478-3532-2-ND	4,000	48.00/M	06035C103KAZ2A
			15000pF	±10%	0.94	478-3533-1-ND	4.00	23.66	68.25	478-3533-2-ND	4,000	66.00/M	06035C153KAZ2A
			22000pF	±10%	0.94	478-3534-1-ND	4.31	25.48	73.50	478-3534-2-ND	4,000	71.00/M	06035C223KAZ2A
			33000pF	±10%	0.94	478-3535-1-ND	4.31	25.48	73.50	478-3535-2-ND	4,000	71.00/M	06035C333KAZ2A
			47000pF	±10%	0.94	478-3536-1-ND	4.31	25.48	73.50	478-3536-2-ND	4,000	71.00/M	06035C473KAZ2A
			.10µF	±10%	0.94	478-3540-1-ND	6.93	40.95	118.13	478-3540-2-ND	4,000	113.00/M	06035C104KAZ2A
		25V	.10µF	±10%	0.94	478-3539-1-ND	6.93	40.95	118.13	478-3539-2-ND	4,000	113.00/M	06033C104KAZ2A
		16V	68000pF	±10%	0.94	478-3537-1-ND	5.54	32.76	94.50	478-3537-2-ND	4,000	91.00/M	0603YC683KAZ2A
			.10µF	±10%	0.94	478-3538-1-ND	5.54	32.76	94.50	478-3538-2-ND	4,000	91.00/M	0603YC104KAZ2A
0805	X7R	100V	10000pF	±10%	0.94	478-3559-1-ND	3.23	19.11	55.13	478-3559-2-ND	4,000	53.00/M	08051C103KAZ2A
			22000pF	±10%	1.27	478-3560-1-ND	3.70	21.84	63.00	478-3560-2-ND	2,000	60.00/M	08051C223KAZ2A
			47000pF	±10%	1.27	478-3561-1-ND	3.70	21.84	63.00	478-3561-2-ND	2,000	60.00/M	08051C473KAZ2A
			.10µF	±10%	1.40	478-3562-1-ND	5.08	30.03	86.63	478-3562-2-ND	2,000	83.00/M	08051C104KAZ2A
		50V	1000pF	±10%	0.94	478-3541-1-ND	3.47	20.48	59.06	478-3541-2-ND	4,000	57.00/M	08055C102KAZ2A
			1500pF	±10%	0.94	478-3542-1-ND	3.47	20.48	59.06	478-3542-2-ND	4,000	57.00/M	08055C152KAZ2A
			2200pF	±10%	0.94	478-3543-1-ND	3.47	20.48	59.06	478-3543-2-ND	4,000	57.00/M	08055C222KAZ2A
			3300pF	±10%	0.94	478-3544-1-ND	3.47	20.48	59.06	478-3544-2-ND	4,000	57.00/M	08055C332KAZ2A
			4700pF	±10%	0.94	478-3545-1-ND	4.90	28.93	83.44	478-3545-2-ND	4,000	80.00/M	08055C472KAZ2A
			6800pF	±10%	0.94	478-3546-1-ND	4.90	28.93	83.44	478-3546-2-ND	4,000	80.00/M	08055C682KAZ2A
			10000pF	±10%	0.94	478-3547-1-ND	4.90	28.93	83.44	478-3547-2-ND	4,000	80.00/M	08055C103KAZ2A
			15000pF	±10%	0.94	478-3548-1-ND	4.90	28.93	83.44	478-3548-2-ND	4,000	80.00/M	08055C153KAZ2A
			22000pF	±10%	0.94	478-3549-1-ND	4.90	28.93	83.44	478-3549-2-ND	4,000	80.00/M	08055C223KAZ2A
			33000pF	±10%	0.94	478-3550-1-ND	4.90	28.93	83.44	478-3550-2-ND	4,000	80.00/M	08055C333KAZ2A
			47000pF	±10%	0.94	478-3551-1-ND	4.90	28.93	83.44	478-3551-2-ND	4,000	80.00/M	08055C473KAZ2A
			68000pF	±10%	0.94	478-3552-1-ND	4.90	28.93	83.44	478-3552-2-ND	4,000	80.00/M	08055C683KAZ2A
			.10µF	±10%	0.94	478-3553-1-ND	3.70	21.84	63.00	478-3553-2-ND	4,000	60.00/M	08055C104KAZ2A
			.22µF	±10%	1.40	478-3555-1-ND	4.93	29.12	84.00	478-3555-2-ND	2,000	81.00/M	08055C224KAZ2A
		25V	.33µF	±10%	1.40	478-3556-1-ND	4.93	29.12	84.00	478-3556-2-ND	2,000	81.00/M	08053C334KAZ2A
			1.0µF	±10%	1.40	478-3558-1-ND	46.97	277.55	800.63	478-3558-2-ND	2,000	769.00/M	08053C105KAZ2A
		10V	1.0µF	±10%	1.40	478-3557-1-ND	21.56	127.40	367.50	478-3557-2-ND	2,000	353.00/M	0805ZC105KAZ2A
1206	X7R	2000V	100pF	±10%	1.52	478-4599-1-ND	6.75	56.25	187.50	478-4599-2-ND	2,000	270.00/M	1206GC101KAZ1A
			470pF	±10%	1.52	478-4660-1-ND	16.50	97.50	281.25	478-4660-2-ND	2,000	270.00/M	1206GC471KAZ1A
			1000pF	±10%	1.52	478-4600-1-ND	6.75	56.25	187.50	478-4600-2-ND	2,000	270.00/M	1206GC102KAZ1A
		1000V	2200pF	±10%	1.52	478-4658-1-ND	16.50	97.50	281.25	478-4658-2-ND	2,000	270.00/M	1206AC222KAZ1A
			4700pF	±10%	1.52	478-4668-1-ND	16.50	97.50	281.25	478-4668-2-ND	2,000	270.00/M	1206AC472KAZ1A
		630V	10000pF	±10%	1.52	478-4659-1-ND	16.50	97.50	281.25	478-4659-2-ND	2,000	270.00/M	1206CC103KAZ1A
		100V	1000pF	±10%	0.94	478-3576-1-ND	4.47	26.39	76.13	478-3576-2-ND	4,000	73.00/M	12061C102KAZ2A
			10000pF	±10%	0.94	478-3577-1-ND	4.47	26.39	76.13	478-3577-2-ND	4,000	73.00/M	12061C103KAZ2A
			.10µF	±10%	1.78	478-3578-1-ND	3.85	22.75	65.63	478-3578-2-ND	2,000	63.00/M	12061C104KAZ2A
			.22µF	±10%	1.78	478-3579-1-ND	15.25	90.09	259.88	478-3579-2-ND	2,000	249.00/M	12061C224KAZ2A
			.33µF	±10%	1.78	478-3580-1-ND	15.25	90.09	259.88	478-3580-2-ND	2,000	249.00/M	12061C334KAZ2A
		50V	1000pF	±10%	0.94	478-3563-1-ND	4.16	24.57	70.88	478-3563-2-ND	4,000	68.00/M	12065C102KAZ2A
			10000pF	±10%	0.94	478-3564-1-ND	4.53	26.78	77.25	478-3564-2-ND	4,000	74.00/M	12065C103KAZ2A
			15000pF	±10%	0.94	478-3565-1-ND	4.53	26.78	77.25	478-3565-2-ND	4,000	74.00/M	12065C153KAZ2A
			22000pF	±10%	0.94	478-3566-1-ND	4.53	26.78	77.25	478-3566-2-ND	4,000	74.00/M	12065C223KAZ2A
			33000pF	±10%	0.94	478-3567-1-ND	4.53	26.78	77.25	478-3567-2-ND	4,000	74.00/M	12065C333KAZ2A
			47000pF	±10%	0.94	478-3568-1-ND	4.53	26.78	77.25	478-3568-2-ND	4,000	74.00/M	12065C473KAZ2A
			68000pF	±10%	0.94	478-3569-1-ND	4.53	26.78	77.25	478-3569-2-ND	4,000	74.00/M	12065C683KAZ2A
			.10µF	±10%	0.94	478-3570-1-ND	4.97	29.38	84.75	478-3570-2-ND	4,000	81.00/M	12065C104KAZ2A
			.15µF	±10%	1.52	478-3571-1-ND	6.77	39.98	115.31	478-3571-2-ND	2,000	111.00/M	12065C154KAZ2A
			.22µF	±10%	1.52	478-3572-1-ND	6.77	39.98	115.31	478-3572-2-ND	2,000	111.00/M	12065C224KAZ2A
			.47µF	±10%	1.52	478-3573-1-ND	10.45	61.75	178.13	478-3573-2-ND	2,000	171.00/M	12065C474KAZ2A
		25V	2.2µF	±10%	1.78	478-3575-1-ND	18.02	106.47	307.13	478-3575-2-ND	2,000	295.00/M	12063C225KAZ2A
		16V	1.0µF	±10%	1.27	478-3574-1-ND	15.25	90.09	259.88	478-3574-2-ND	2,000	249.00/M	1206YC105KAZ2A
1210	X7R	2000V	1000pF	±10%	1.70	478-4602-1-ND	9.00	75.00	250.00	478-4602-2-ND	2,000	360.00/M	1210GC102KAZ1A
		1000V	10000pF	±10%	1.70	478-4601-1-ND	9.00	75.00	250.00	478-4601-2-ND	2,000	360.00/M	1210AC103KAZ1A
		100V	.10µF	±10%	1.52	478-3581-1-ND	7.70	45.50	131.25	478-3581-2-ND	2,000	126.00/M	12101C104KAZ2A
			.33µF	±10%	1.78	478-3582-1-ND	14.17	83.72	241.50	478-3582-2-ND	2,000	232.00/M	12101C334KAZ2A
			.47µF	±10%	1.78	478-3583-1-ND	10.12	59.80	172.50	478-3583-2-ND	2,000	166.00/M	12101C474KAZ2A
			.68µF	±10%	2.29	478-3584-1-ND	23.21	137.15	395.63	478-3584-2-ND	1,000	380.00	12101C684KAZ2A
			1.0µF	±10%	2.79	478-3585-1-ND	24.64	145.60	420.00	478-3585-2-ND	1,000	403.00	12101C105KAZ2A
		50V	.10µF	±10%	1.02	478-3586-1-ND	7.24	42.77	123.38	478-3586-2-ND	4,000	118.00/M	12105C104KAZ2A
			.22µF	±10%	1.27	478-3587-1-ND	9.68	57.20	165.00	478-3587-2-ND	2,000	158.00/M	12105C224KAZ2A

(Continued)

AVX Multilayer Ceramic Chip Capacitors with Soft Termination *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T Max (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
1210	X7R	50V	.33µF	±10%	1.52	478-3588-1-ND	16.94	100.10	288.75	478-3588-2-ND	2,000	277.00/M	12105C334KAZ2A
			.47µF	±10%	1.52	478-3589-1-ND	16.94	100.10	288.75	478-3589-2-ND	2,000	277.00/M	12105C474KAZ2A
			1.0µF	±10%	2.79	478-3590-1-ND	44.66	263.90	761.25	478-3590-2-ND	2,000	731.00/M	12105C105KAZ2A
			2.2µF	±10%	2.79	478-3591-1-ND	49.28	291.20	840.00	478-3591-2-ND	1,000	806.00	12105C225KAZ2A
			4.7µF	±10%	1.70	478-4523-1-ND	25.11	209.25	697.50	478-4523-2-ND	1,000	1004.00	12105C475KAZ2A
		16V	4.7µF	±10%	2.79	478-3592-1-ND	55.44	327.60	945.00	478-3592-2-ND	2,000	907.00/M	1210YC475KAZ2A
1808	X7R	3000V	1000pF	±10%	2.03	478-4603-1-ND	13.50	112.50	375.00	478-4603-2-ND	2,000	540.00/M	1808HC102KAZ1A
			1000pF	±20%	2.03	478-4604-1-ND	12.83	106.88	356.25	478-4604-2-ND	2,000	513.00/M	1808HC102MAZ1A
		1000V	10000pF	±10%	2.03	478-4661-1-ND	27.50	162.50	468.75	478-4661-2-ND	2,000	450.00/M	1808AC103KAZ1A
1812	X7R	3000V	470pF	±10%	2.54	478-4665-1-ND	27.50	162.50	468.75	478-4665-2-ND	2,000	450.00/M	1812HC471KAZ1A
			1000pF	±10%	2.54	478-4607-1-ND	14.40	120.00	400.00	478-4607-2-ND	1,000	576.00	1812HC102KAZ1A
			1000pF	±20%	2.54	478-4608-1-ND	13.68	114.00	380.00	478-4608-2-ND	1,000	547.00	1812HC102MAZ1A
		2000V	4700pF	±10%	2.54	478-4606-1-ND	14.40	120.00	400.00	478-4606-2-ND	1,000	576.00	1812GC472KAZ1A
		1000V	10000pF	±10%	2.54	478-4605-1-ND	14.40	120.00	400.00	478-4605-2-ND	1,000	576.00	1812AC103KAZ1A
			27000pF	±10%	2.54	478-4662-1-ND	35.20	208.00	600.00	478-4662-2-ND	2,000	576.00/M	1812AC273KAZ1A
		630V	.10µF	±10%	2.54	478-4663-1-ND	27.50	162.50	468.75	478-4663-2-ND	2,000	450.00/M	1812CC104KAZ1A
			47000pF	±10%	2.54	478-4664-1-ND	35.20	208.00	600.00	478-4664-2-ND	2,000	576.00/M	1812CC473KAZ1A
		100V	.47µF	±10%	2.29	478-3596-1-ND	62.70	370.50	1068.75	478-3596-2-ND	1,000	1026.00	18121C474KAZ2A
			.68 µF	±10%	2.79	478-3597-1-ND	62.70	370.50	1068.75	478-3597-2-ND	1,000	1026.00	18121C684KAZ2A
			1.0µF	±10%	2.79	478-3598-1-ND	47.08	278.20	—	478-3598-2-ND	500	385.00	18121C105KAZ2A
			2.2µF	±10%	2.79	478-3599-1-ND	92.40	546.00	—	478-3599-2-ND	500	756.00	18121C225KAZ2A
		50V	.47µF	±10%	2.29	478-3593-1-ND	49.50	292.50	843.75	478-3593-2-ND	1,000	810.00	18125C474KAZ2A
			.68µF	±10%	2.29	478-3594-1-ND	62.70	370.50	1068.75	478-3594-2-ND	1,000	1026.00	18125C684KAZ2A
			1.0µF	±10%	2.29	478-3595-1-ND	46.20	273.00	787.50	478-3595-2-ND	1,000	756.00	18125C105KAZ2A
1825	X7R	2000V	10000pF	±10%	2.54	478-4670-1-ND	46.20	273.00	787.50	478-4670-2-ND	1,000	756.00	1825GC103KAZ1A
		1000V	.10µF	±10%	2.54	478-4669-1-ND	46.20	273.00	787.50	478-4669-2-ND	1,000	756.00	1825AC104KAZ1A
			47000pF	±10%	2.54	478-4609-1-ND	18.90	157.50	525.00	478-4609-2-ND	1,000	756.00	1825AC473KAZ1A
		630V	.10µF	±10%	2.54	478-4610-1-ND	18.90	157.50	525.00	478-4610-2-ND	1,000	756.00	1825CC104KAZ1A
2220	X7R	2000V	10000pF	±10%	3.30	478-4611-1-ND	35.10	292.50	975.00	478-4611-2-ND	1,000	1404.00	2220GC103KAZ1A
		50V	10µF	±10%	3.30	478-4522-1-ND	50.40	420.00	—	478-4522-2-ND	500	1008.00	22205C106KAZ2A
2225	X7R	2500V	10000pF	±10%	2.54	478-4612-1-ND	35.10	292.50	975.00	478-4612-2-ND	1,000	1404.00	2225WC103KAZ1A
		1000V	.10µF	±10%	2.54	478-4666-1-ND	85.80	507.00	1462.50	478-4666-2-ND	2,000	1404.00/M	2225AC104KAZ1A
		630V	.10µF	±10%	2.54	478-4667-1-ND	89.10	526.50	1518.75	478-4667-2-ND	2,000	1458.00/M	2225CC104KAZ1A

Automotive Grade Multilayer Ceramic Chip Capacitors

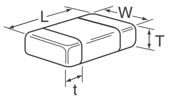

Size Code	Dimensions (mm) L	W	t
0805	2.01±0.20	1.25±0.20	0.50±0.25
1206	3.20±0.20	1.60±0.20	0.50±0.25
2220	5.70±0.40	5.00±0.040	0.64±0.39

Features: X7R dielectric components containing BME electrode and copper terminations with a Ni/Sn plated overcoat.
Specifications: AECQ200 qualified

Size Code	WV DC	Capacitance	Dim. T Max (mm)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0805	100V	.10µF	1.27	478-4525-1-ND	.19	1.71	14.25	478-4525-2-ND	2,000	68.00/M	08051C104K4T2A
	50V	.47µF	1.27	478-4526-1-ND	.34	3.06	25.50	478-4526-2-ND	2,000	122.00/M	08055C474K4T2A
	25V	1.0µF	1.40	478-4527-1-ND	1.22	10.98	91.50	478-4527-2-ND	2,000	439.00/M	08053C105K4T2A
1206	25V	2.2µF	1.78	478-4530-1-ND	.60	5.40	45.00	478-4530-2-ND	2,000	216.00/M	12063C225K4Z2A
2220	50V	10µF	2.79	478-4528-1-ND	6.25	56.25	468.75	478-4528-2-ND	500	1125.00	22205C106K4Z2A

Hi-Q® MLC Capacitors

The HQ Series capacitors from AVX are a Hi-Q high RF power, surface mount MLC capacitor and are characterized with ultra-low ESR and dissipation factor at high frequencies. They are designed to handle high power and high voltage applications in RF power amplifiers, inductive heating, high magnetic field environments (MRI coils), medical, and industrial electronics.

Specifications: • Dissipation Factor @ 25°C: 0.1% Max (measured with 1Vms @ 1KHz {1MHz for ≤1000pF)} • Dielectric Strength: Min. 120% of rated WVDC

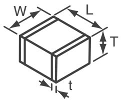

Size Code	Dimensions (mm) L	W	T Max	t
HQCC	5.84	6.35	3.3	0.64
HQCE	9.4	9.9	3.3	0.64

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Pricing 1	10	100	AVX Part No.
HQCC	3000V	3.3pF	±0.50pF	478-4551-ND	7.00	49.00	420.00	HQCCHA3R3DAT9A
		4.7pF	±0.25pF	478-4552-ND	7.00	49.00	420.00	HQCCHA4R7CA19A
		6.8pF	±0.25pF	478-4555-ND	8.45	59.15	507.00	HQCCHA6R8CAT9A
		12pF	2%	478-4540-ND	8.45	59.15	507.00	HQCCHA120GAT9A
		15pF	2%	478-4543-ND	8.45	59.15	507.00	HQCCHA150GA19A
		18pF	2%	478-4545-ND	8.45	59.15	507.00	HQCCHA180GA19A
		20pF	2%	478-4546-ND	8.45	59.15	507.00	HQCCHA200GA19A
		22pF	2%	478-4547-ND	8.45	59.15	507.00	HQCCHA220GAT9A
		39pF	2%	478-4550-ND	8.45	59.15	507.00	HQCCHA390GAT9A
		56pF	2%	478-4553-ND	8.45	59.15	507.00	HQCCHA560GAT9A
		68pF	2%	478-4554-ND	8.45	59.15	507.00	HQCCHA680GAT9A
		82pF	10%	478-4556-ND	9.13	63.88	547.50	HQCCHA820KA19A
		120pF	2%	478-4541-ND	8.45	59.15	507.00	HQCCHA121GAT9A
		130pF	2%	478-4542-ND	8.45	59.15	507.00	HQCCHA131GA19A
		150pF	5%	478-4544-ND	8.45	59.15	507.00	HQCCHA151JA19A
		220pF	2%	478-4548-ND	8.45	59.15	507.00	HQCCHA221GAT9A
		270pF	2%	478-4549-ND	8.45	59.15	507.00	HQCCHA271GAT9A
	2500V	330pF	2%	478-4559-ND	9.13	63.88	547.50	HQCCWA331GAT9A
		390pF	2%	478-4560-ND	9.13	63.88	547.50	HQCCWA391GAT9A
	1500V	820pF	2%	478-4558-ND	9.13	63.88	547.50	HQCCSA821GAT9A
		1000pF	10%	478-4557-ND	9.13	63.88	547.50	HQCCSA102KAT9A
HQCE	630V	6800pF	10%	478-4561-ND	13.18	92.23	790.50	HQCECA682KAT9A
	2000V	1200pF	5%	478-4562-ND	13.18	92.23	790.50	HQCEGA122JAT9A
		1800pF	10%	478-4563-ND	13.18	92.23	790.50	HQCEGA182KAT9A
	2500V	820pF	5%	478-4579-ND	18.13	126.88	1087.50	HQCEWA821JAT9A
	3000V	560pF	5%	478-4565-ND	15.30	107.10	918.00	HQCEHA561JAT9A
		680pF	5%	478-4566-ND	15.30	107.10	918.00	HQCEHA681JAT9A
	4000V	220pF	5%	478-4567-ND	15.30	107.10	918.00	HQCEJA221JAT9A
		390pF	5%	478-4568-ND	15.30	107.10	918.00	HQCEJA391JAT9A
	5000V	150pF	5%	478-4569-ND	15.30	107.10	918.00	HQCEKA151JAT9A
	7200V	18pF	5%	478-4572-ND	18.13	126.88	1087.50	HQCEMA180JAT9A
		22pF	5%	478-4573-ND	18.13	126.88	1087.50	HQCEMA220JAT9A
		27pF	5%	478-4574-ND	18.13	126.88	1087.50	HQCEMA270JAT9A
		33pF	5%	478-4575-ND	18.13	126.88	1087.50	HQCEMA330JAT9A
		43pF	1%	478-4576-ND	18.13	126.88	1087.50	HQCEMA430FAT9A
		68pF	1%	478-4577-ND	18.13	126.88	1087.50	HQCEMA680FAT9A
		75pF	1%	478-4578-ND	18.13	126.88	1087.50	HQCEMA750FAT9A
		100pF	5%	478-4570-ND	18.13	126.88	1087.50	HQCEMA101JAT9A

AVX LT Series Low Profile Multilayer Chip Capacitors

AVX introduces the LT series that is comprised of a range of low profile products in the X5R dielectric. X5R is a Class II dielectric with temperature variation of capacitance within ±15% from -55°C ~ 85°C. Series includes 0402, 0603, 0805 and 1206 packages in compact, low-profile designs. The LT Series is ideal for decoupling and filtering applications where height clearance is limited.

Size Code	Dimensions (mm)			
	L	W	T (max.)	t
0402	1.00	.50	.356	.25
0603	1.60	.81	.56	.35
0805	2.01	1.25	.95	.50
1206	3.20	1.60	1.02	.50

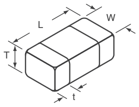

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape and Reel		AVX Part No.
					10	100	500	1,000		Qty.	Pricing	
0402	4	1.0µF	±20%	478-4069-1-ND	5.72	33.80	97.50	135.20	478-4069-2-ND	10,000	94.00/M	LT024D105MAT2C
0603	4	4.7µF	±20%	478-4070-1-ND	15.95	94.25	271.88	377.00	478-4070-2-ND	4,000	261.00/M	LT034D475MAT2S
	6.3	2.2µF	±20%	478-4071-1-ND	9.68	57.20	165.00	228.80	478-4071-2-ND	4,000	158.00/M	LT036D225MAT2S
	16	1.0µF	±10%	478-4072-1-ND	15.95	94.25	271.88	377.00	478-4072-2-ND	4,000	261.00/M	LT03YD105KAT2S
0805	6.3	10µF	±20%	478-4073-1-ND	19.91	117.65	339.38	470.60	478-4073-2-ND	4,000	326.00/M	LT056D106MAT2X
	16	4.7µF	±20%	478-4076-1-ND	10.56	62.40	180.00	249.60	478-4076-2-ND	4,000	173.00/M	LT05YD475MAT2X
1206	16	10µF	±20%	478-4077-1-ND	21.45	126.75	365.63	507.00	478-4077-2-ND	4,000	351.00/M	LT06YD106MAT2W

SQ Series RF/Microwave Multilayer Chip Capacitors

Features: • High current carrying capabilities • High Q-Factor • Very low ESR • Very high series resonance • Excellent stability under stresses of changing voltage, frequency, time and temperature

Specifications: • Operating Temperature: -55°C ~ 125°C • Temperature Coefficient: (M)+90 ±20ppm/°C (A)0 ±30ppm/ °C • Dielectric withstanding voltage: 2.5 x rated voltage (1.5 x rated voltage for 500 volt rated parts)

Size Code	Dimensions (mm)		
	L	W	T (Min. / Max.)
0603	.063±.006	.032±.006	.030 Max.
0605	.055+.015-.010	.055±.015	.020 / .057
0805	.079±.008	.049±.008	.045 Max.
1210	.110+.020-.010	.110±.010	.030 / .102

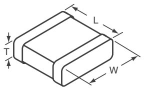

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
					10	100	500		Qty.	Pricing	
0603	250V	0.2pF	±.10pF	478-3482-1-ND◆	4.42	29.25	130.00	478-3482-2-ND◆	4,000	199.00/M	SQCSVA0R2BAT1A
		0.4pF	±.10pF	478-3483-1-ND◆	2.96	19.58	87.00	478-3483-2-ND◆	4,000	133.00/M	SQCSVA0R4BAT1A
		0.6pF	±.10pF	478-3484-1-ND◆	2.96	19.58	87.00	478-3484-2-ND◆	4,000	133.00/M	SQCSVA0R6BAT1A
		0.8pF	±.10pF	478-3485-1-ND◆	2.96	19.58	87.00	478-3485-2-ND◆	4,000	133.00/M	SQCSVA0R8BAT1A
		1.0pF	±.10pF	478-3486-1-ND◆	2.96	19.58	87.00	478-3486-2-ND◆	4,000	133.00/M	SQCSVA1R0BAT1A
		1.1pF	±.10pF	478-3487-1-ND◆	2.96	19.58	87.00	478-3487-2-ND◆	4,000	133.00/M	SQCSVA1R1BAT1A
		1.2pF	±.10pF	478-3488-1-ND◆	2.96	19.58	87.00	478-3488-2-ND◆	4,000	133.00/M	SQCSVA1R2BAT1A
		1.5pF	±.10pF	478-3489-1-ND◆	2.96	19.58	87.00	478-3489-2-ND◆	4,000	133.00/M	SQCSVA1R5BAT1A
		1.8pF	±.10pF	478-3490-1-ND◆	2.96	19.58	87.00	478-3490-2-ND◆	4,000	133.00/M	SQCSVA1R8BAT1A
		2.0pF	±.10pF	478-3491-1-ND◆	2.96	19.58	87.00	478-3491-2-ND◆	4,000	133.00/M	SQCSVA2R0BAT1A
		2.2pF	±.10pF	478-3492-1-ND◆	5.44	36.00	160.00	478-3492-2-ND◆	4,000	291.00/M	SQCSVA2R2BAT1A
		2.4pF	±.10pF	478-3493-1-ND◆	6.46	42.75	190.00	478-3493-2-ND◆	4,000	291.00/M	SQCSVA2R4BAT1A
		2.7pF	±.10pF	478-3494-1-ND◆	2.96	19.58	87.00	478-3494-2-ND◆	4,000	133.00/M	SQCSVA2R7BAT1A
		3.0pF	±.10pF	478-3495-1-ND◆	2.96	19.58	87.00	478-3495-2-ND◆	4,000	133.00/M	SQCSVA3R0BAT1A
		3.3pF	±.10pF	478-3496-1-ND◆	2.96	19.58	87.00	478-3496-2-ND◆	4,000	133.00/M	SQCSVA3R3BAT1A
		3.9pF	±.25pF	478-3497-1-ND◆	2.58	17.10	76.00	478-3497-2-ND◆	4,000	116.00/M	SQCSVA3R9CAT1A
		4.7pF	±.25pF	478-3498-1-ND◆	2.58	17.10	76.00	478-3498-2-ND◆	4,000	116.00/M	SQCSVA4R7CAT1A
		5.6pF	±.25pF	478-3499-1-ND◆	2.58	17.10	76.00	478-3499-2-ND◆	4,000	116.00/M	SQCSVA5R6CAT1A
		6.8pF	±.25pF	478-3500-1-ND◆	2.58	17.10	76.00	478-3500-2-ND◆	4,000	116.00/M	SQCSVA6R8CAT1A
		8.2pF	±.25pF	478-3501-1-ND◆	2.58	17.10	76.00	478-3501-2-ND◆	4,000	116.00/M	SQCSVA8R2CAT1A
		10pF	±5%	478-3502-1-ND◆	2.96	19.58	87.00	478-3502-2-ND◆	4,000	133.00/M	SQCSVA100JAT1A
		12pF	±5%	478-3503-1-ND◆	5.44	36.00	160.00	478-3503-2-ND◆	4,000	245.00/M	SQCSVA120JAT1A
		15pF	±5%	478-3504-1-ND◆	5.44	36.00	160.00	478-3504-2-ND◆	4,000	245.00/M	SQCSVA150JAT1A
		18pF	±5%	478-3505-1-ND◆	2.96	19.58	87.00	478-3505-2-ND◆	4,000	133.00/M	SQCSVA180JAT1A
		20pF	±5%	478-3506-1-ND◆	2.96	19.58	87.00	478-3506-2-ND◆	4,000	133.00/M	SQCSVA200JAT1A
		22pF	±5%	478-3507-1-ND◆	5.44	36.00	160.00	478-3507-2-ND◆	4,000	245.00/M	SQCSVA220JAT1A
		24pF	±5%	478-3508-1-ND◆	5.44	36.00	160.00	478-3508-2-ND◆	4,000	245.00/M	SQCSVA240JAT1A
		27pF	±5%	478-3509-1-ND◆	2.96	19.58	87.00	478-3509-2-ND◆	4,000	133.00/M	SQCSVA270JAT1A
		30pF	±5%	478-3510-1-ND◆	5.44	36.00	160.00	478-3510-2-ND◆	4,000	245.00/M	SQCSVA300JAT1A
		33pF	±5%	478-3511-1-ND◆	2.96	19.58	87.00	478-3511-2-ND◆	4,000	133.00/M	SQCSVA330JAT1A
		39pF	±5%	478-3512-1-ND◆	2.96	19.58	87.00	478-3512-2-ND◆	4,000	133.00/M	SQCSVA390JAT1A
		47pF	±5%	478-3513-1-ND◆	6.12	40.50	180.00	478-3513-2-ND◆	4,000	275.00/M	SQCSVA470JAT1A
		56pF	±5%	478-3514-1-ND◆	2.96	19.58	87.00	478-3514-2-ND◆	4,000	133.00/M	SQCSVA560JAT1A
		68pF	±5%	478-3515-1-ND◆	2.96	19.58	73.95	478-3515-2-ND◆	4,000	133.00/M	SQCSVA680JAT1A
		82pF	±5%	478-3516-1-ND◆	6.46	42.75	190.00	478-3516-2-ND◆	4,000	291.00/M	SQCSVA820JAT1A
		100pF	±5%	478-3517-1-ND◆	7.48	49.50	220.00	478-3517-2-ND◆	4,000	337.00/M	SQCSVA101JAT1A
0605	150V	.10pF	±.10pF	478-2667-1-ND†	13.48	122.50	551.25	478-2667-2-ND	2,000	735.00/M	SQCAEM0R1BAJME
		.20pF	±.10pF	478-2668-1-ND†	20.90	190.00	855.00	478-2668-2-ND	2,000	1140.00/M	SQCAEM0R2BAJME
		.40pF	±.10pF	478-2670-1-ND†	13.48	122.50	551.25	—	—	—	SQCAEM0R4BAJME
		.50pF	±.10pF	478-2671-1-ND†	13.48	122.50	551.25	—	—	—	SQCAEM0R5BAJME
		.60pF	±.10pF	478-2672-1-ND†	13.48	122.50	551.25	—	—	—	SQCAEM0R6BAJME
		.70pF	±.10pF	478-2673-1-ND†	13.48	122.50	551.25	—	—	—	SQCAEM0R7BAJME
		.80pF	±.10pF	478-2674-1-ND†	20.90	190.00	855.00	478-2674-2-ND	2,000	1140.00/M	SQCAEM0R8BAJME
		.90pF	±.10pF	478-2675-1-ND†	13.48	122.50	551.25	—	—	—	SQCAEM0R9BAJME
		1.0pF	±.10pF	478-2676-1-ND†	13.48	122.50	551.25	478-2676-2-ND	2,000	735.00/M	SQCAEM1R0BAJME
		1.1pF	±.10pF	478-2677-1-ND†	13.48	122.50	551.25	—	—	—	SQCAEM1R1BAJME
		1.2pF	±.10pF	478-2678-1-ND†	13.48	122.50	551.25	478-2678-2-ND	2,000	735.00/M	SQCAEM1R2BAJME
		1.5pF	±.10pF	478-2679-1-ND†	13.48	122.50	551.25	478-2679-2-ND	2,000	735.00/M	SQCAEM1R5BAJME
		1.6pF	±.25pF	478-2680-1-ND†	11.00	100.00	450.00	—	—	—	SQCAEM1R6CAJME
		1.8pF	±.25pF	478-2681-1-ND†	11.00	100.00	450.00	478-2681-2-ND	2,000	600.00/M	SQCAEM1R8CAJME
		2.0pF	±.25pF	478-2682-1-ND†	11.00	100.00	450.00	478-2682-2-ND	2,000	600.00/M	SQCAEM2R0CAJME
		2.2pF	±.10pF	478-2683-1-ND††	13.48	122.50	551.25	—	—	—	SQCAEM2R2BAJME
		2.4pF	±.10pF	478-2684-1-ND††	21.45	195.00	877.50	478-2684-2-ND	2,000	1170.00/M	SQCAEM2R4BAJME
		2.7pF	±.10pF	478-2685-1-ND††	13.48	122.50	551.25	—	—	—	SQCAEM2R7BAJME
		3.0pF	±.10pF	478-2686-1-ND††	13.48	122.50	551.25	478-2686-2-ND	2,000	735.00/M	SQCAEM3R0BAJME
		3.9pF	±.25pF	478-2688-1-ND††	11.00	100.00	450.00	—	—	—	SQCAEM3R9CAJME
		4.7pF	±.25pF	478-2689-1-ND††	11.00	100.00	450.00	—	—	—	SQCAEM4R7CAJME
		5.6pF	±.25pF	478-2690-1-ND††	11.00	100.00	450.00	478-2690-2-ND	2,000	600.00/M	SQCAEM5R6CAJME
		6.8pF	±.25pF	478-2691-1-ND††	16.78	152.50	686.25	478-2691-2-ND	2,000	915.00/M	SQCAEM6R8CAJME
		8.2pF	±.25pF	478-2692-1-ND††	16.78	152.50	686.25	478-2692-2-ND	2,000	915.00/M	SQCAEM8R2CAJME
		10pF	±5%	478-2693-1-ND††	13.75	125.00	562.50	478-2693-2-ND	2,000	750.00/M	SQCAEM100JAJME
		15pF	±5%	478-2695-1-ND††	13.75	125.00	562.50	—	—	—	SQCAEM150JAJME
		20pF	±5%	478-2697-1-ND††	13.75	125.00	562.50	—	—	—	SQCAEM200JAJME
		22pF	±5%	478-2698-1-ND††	13.75	125.00	562.50	478-2698-2-ND	2,000	750.00/M	SQCAEM220JAJME
		24pF	±5%	478-2699-1-ND††	13.75	125.00	562.50	—	—	—	SQCAEM240JAJME
		27pF	±5%	478-2700-1-ND††	13.75	125.00	562.50	478-2700-2-ND	2,000	750.00/M	SQCAEM270JAJME
		33pF	±5%	478-2702-1-ND††	13.75	125.00	562.50	478-2702-2-ND	2,000	750.00/M	SQCAEM330JAJME
		39pF	±5%	478-2703-1-ND††	13.75	125.00	562.50	—	—	—	SQCAEM390JAJME
		56pF	±5%	478-2705-1-ND††	13.75	125.00	562.50	478-2705-2-ND	2,000	750.00/M	SQCAEM560JAJME
		68pF	±5%	478-2706-1-ND††	13.75	125.00	562.50	478-2706-2-ND	2,000	750.00/M	SQCAEM680JAJME
		82pF	±5%	478-2707-1-ND††	13.75	125.00	562.50	478-2707-2-ND	2,000	750.00/M	SQCAEM820JAJME
		100pF	±5%	478-2708-1-ND††	13.75	125.00	562.50	478-2708-2-ND	2,000	750.00/M	SQCAEM101JAJME

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(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

AVX SQ Series RF/Microwave Multilayer Chip Capacitors *(Cont.)*

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
					10	100	500		Qty.	Pricing	
0805	250V	1.0pF	±.10pF	478-4078-1-ND◆	19.80	117.00	337.50	478-4078-2-ND◆	4,000	324.00/M	SQCFVA1R0BATME
		4.7pF	±.10pF	478-4079-1-ND◆	27.50	162.50	468.75	478-4079-2-ND◆	4,000	450.00/M	SQCFVA4R7BATME
		10pF	±5%	478-4080-1-ND◆	20.90	123.50	356.25	478-4080-2-ND◆	4,000	342.00/M	SQCFVA100JATME
		47pF	±5%	478-4081-1-ND◆	22.00	130.00	375.00	478-4081-2-ND◆	4,000	360.00/M	SQCFVA470JATME
		240pF	±5%	478-4082-1-ND◆	31.79	187.85	541.88	478-4082-2-ND◆	4,000	520.00/M	SQCFVA241JATME
1210	500V	1.0pF	±.10pF	478-2621-1-ND•	11.22	102.00	459.00	478-2621-2-ND	2,000	612.00/M	SQCB7M1R0BAJME
		1.2pF	±.10pF	478-2622-1-ND•	29.15	265.00	1192.50	478-2622-2-ND	2,000	1590.00/M	SQCB7M1R2BAJME
		1.5pF	±.10pF	478-2623-1-ND•	29.15	265.00	1192.50	478-2623-2-ND	2,000	1590.00/M	SQCB7M1R5BAJME
		1.8pF	±.10pF	478-2624-1-ND•	11.22	102.00	459.00	478-2624-2-ND	2,000	612.00/M	SQCB7M1R8BAJME
		2.0pF	±.10pF	478-2625-1-ND•	11.22	102.00	459.00	478-2625-2-ND	2,000	612.00/M	SQCB7M2R0BAJME
		2.2pF	±.10pF	478-2626-1-ND•	11.22	102.00	459.00	478-2626-2-ND	2,000	612.00/M	SQCB7M2R2BAJME
		2.4pF	±.10pF	478-2627-1-ND•	11.22	102.00	459.00	478-2627-2-ND	2,000	612.00/M	SQCB7M2R4BAJME
		2.7pF	±.10pF	478-2628-1-ND•	29.15	265.00	1192.50	478-2628-2-ND	2,000	1590.00/M	SQCB7M2R7BAJME
		3.0pF	±.10pF	478-2629-1-ND•	30.25	275.00	1237.50	478-2629-2-ND	2,000	1650.00/M	SQCB7M3R0BAJME
		3.3pF	±.10pF	478-2630-1-ND•	11.22	102.00	459.00	478-2630-2-ND	2,000	612.00/M	SQCB7M3R3BAJME
		3.9pF	±.25pF	478-2631-1-ND•	13.48	122.50	551.25	478-2631-2-ND	2,000	735.00/M	SQCB7M3R9CAJME
		4.7pF	±.25pF	478-2632-1-ND•	13.48	122.50	551.25	478-2632-2-ND	2,000	735.00/M	SQCB7M4R7CAJME
		5.6pF	±.25pF	478-2633-1-ND•	13.48	122.50	551.25	478-2633-2-ND	2,000	735.00/M	SQCB7M5R6CAJME
		6.8pF	±.25pF	478-2634-1-ND•	15.68	142.50	641.25	478-2634-2-ND	2,000	855.00/M	SQCB7M6R8CAJME
		8.2pF	±.25pF	478-2635-1-ND•	14.08	128.00	576.00	478-2635-2-ND	2,000	768.00/M	SQCB7M8R2CAJME
		10pF	±5%	478-2636-1-ND•	12.10	110.00	495.00	478-2636-2-ND	2,000	660.00/M	SQCB7M100JAJME
		12pF	±5%	478-2637-1-ND•	12.10	110.00	495.00	478-2637-2-ND	2,000	660.00/M	SQCB7M120JAJME
		15pF	±5%	478-2638-1-ND•	12.10	110.00	495.00	478-2638-2-ND	2,000	660.00/M	SQCB7M150JAJME
		18pF	±5%	478-2639-1-ND•	11.44	104.00	468.00	478-2639-2-ND	2,000	624.00/M	SQCB7M180JAJME
		20pF	±5%	478-2640-1-ND•	12.10	110.00	495.00	478-2640-2-ND	2,000	660.00/M	SQCB7M200JAJME
		22pF	±5%	478-2641-1-ND•	11.44	104.00	468.00	478-2641-2-ND	2,000	624.00/M	SQCB7M220JAJME
		24pF	±5%	478-2642-1-ND•	12.10	110.00	495.00	478-2642-2-ND	2,000	660.00/M	SQCB7M240JAJME
		27pF	±5%	478-2643-1-ND•	11.44	104.00	468.00	478-2643-2-ND	2,000	624.00/M	SQCB7M270JAJME
		30pF	±5%	478-2644-1-ND•	12.65	115.00	517.50	478-2644-2-ND	2,000	690.00/M	SQCB7M300JAJME
		33pF	±5%	478-2645-1-ND•	12.65	115.00	517.50	478-2645-2-ND	2,000	690.00/M	SQCB7M330JAJME
		39pF	±5%	478-2646-1-ND•	11.44	104.00	468.00	478-2646-2-ND	2,000	624.00/M	SQCB7M390JAJME
		47pF	±5%	478-2647-1-ND•	13.75	125.00	562.50	478-2647-2-ND	2,000	750.00/M	SQCB7M470JAJME
		56pF	±5%	478-2648-1-ND•	13.75	125.00	562.50	478-2648-2-ND	2,000	750.00/M	SQCB7M560JAJME
		68pF	±5%	478-2649-1-ND•	11.44	104.00	468.00	478-2649-2-ND	2,000	624.00/M	SQCB7M680JAJME
		82pF	±5%	478-2650-1-ND•	11.44	104.00	468.00	478-2650-2-ND	2,000	624.00/M	SQCB7M820JAJME
		100pF	±5%	478-2651-1-ND•	11.44	104.00	468.00	478-2651-2-ND	2,000	624.00/M	SQCB7M101JAJME
	300V	120pF	±5%	478-2652-1-ND•	11.44	104.00	468.00	478-2652-2-ND	2,000	624.00/M	SQCB9M121JAJME
		150pF	±5%	478-2653-1-ND•	11.44	104.00	468.00	478-2653-2-ND	2,000	624.00/M	SQCB9M151JAJME
		180pF	±5%	478-2654-1-ND•	11.44	104.00	468.00	478-2654-2-ND	2,000	624.00/M	SQCB9M181JAJME
		200pF	±5%	478-2655-1-ND•	11.44	104.00	468.00	478-2655-2-ND	2,000	624.00/M	SQCB9M201JAJME
	200V	220pF	±5%	478-2656-1-ND•	11.44	104.00	468.00	478-2656-2-ND	2,000	624.00/M	SQCB2M221JAJME
		240pF	±5%	478-2657-1-ND•	11.44	104.00	468.00	—	—	—	SQCB2M241JAJME
		270pF	±5%	478-2658-1-ND•	11.44	104.00	468.00	478-2658-2-ND	2,000	624.00/M	SQCB2M271JAJME
		300pF	±5%	478-2659-1-ND•	11.44	104.00	468.00	—	—	—	SQCB2M301JAJME
		330pF	±5%	478-2660-1-ND•	11.44	104.00	468.00	478-2660-2-ND	2,000	624.00/M	SQCB2M331JAJME
		390pF	±5%	478-2661-1-ND•	11.44	104.00	468.00	478-2661-2-ND	2,000	624.00/M	SQCB2M391JAJME
		470pF	±5%	478-2662-1-ND•	11.44	104.00	468.00	478-2662-2-ND	2,000	624.00/M	SQCB2M471JAJME
	150V	560pF	±10%	478-2663-1-ND•	17.33	157.50	708.75	478-2663-2-ND	2,000	945.00/M	SQCBEM561KAJME
		680pF	±10%	478-2664-1-ND•	8.14	74.00	333.00	478-2664-2-ND	1,000	444.00	SQCBEM681KAJME
		820pF	±10%	478-2665-1-ND•	20.90	190.00	855.00	478-2665-2-ND	2,000	1140.00/M	SQCBEM821KAJME
		1000pF	±10%	478-2666-1-ND•	23.38	212.50	956.25	478-2666-2-ND	2,000	1275.00/M	SQCBEM102KAJME

◆ ***RoHS Compliant***

SQ P90 Kits

• **478-2836-ND (**SQCB/KITSQ001)	10 each of values denoted (460 total pieces)	**$119.70**
† **478-2837-ND (**SQCA/KITSQ002)	10 each of values denoted (160 total pieces)	**$119.70**
†† **478-2838-ND (**SQCA/KITSQ003)	10 each of values denoted (260 total pieces)	**$119.70**

Accu-P® Series

Thin Film RF/Microwave Multilayer Chip Capacitors

Features: • Low ESR • High Q • Very Low Capacitance Values • Very Tight Capacitance Tolerances • High RF Power Handling Capability • Hand Solderable

Specifications: • Operating Temperature: -55°C ~ 125°C • Insulation Resistance: ≥ 10^{11} Ω (≥ 10^{10} Ω for 0201 and 0402 size) • Dielectric Absorption: .01%

Size Code	Dimensions - Inch (mm)		
	L	W	T
0201	0.023 (0.60)	0.0128 (0.325)	0.009 (0.225)
0402	0.039 (1.00)	0.022 (0.55)	0.016 (0.40)
0603	0.063 (1.60)	0.032 (0.81)	0.025 (0.63)

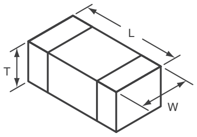

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
					10	100	500		Qty.	Pricing	
0201	25V	.10pF	±.02pF	478-2709-1-ND▲	16.50	97.50	281.25	—	—	—	02013J0R1PBWTR
		.10pF	±.02pF	478-4367-1-ND◆†‡	16.50	97.50	281.25	478-4367-2-ND◆	5,000	270.00/M	02013J0R1PBSTR
		.30pF	±.02pF	478-2711-1-ND▲	16.50	97.50	281.25	—	—	—	02013J0R3PBWTR
		.30pF	±.02pF	478-4368-1-ND◆†‡	16.50	97.50	281.25	478-4368-2-ND◆	5,000	270.00/M	02013J0R3PBSTR
		.40pF	±.02pF	478-2712-1-ND▲	5.10	33.75	127.50	478-2712-2-ND	5,000	195.00/M	02013J0R4PBWTR
		.50pF	±.02pF	478-4369-1-ND◆†‡	16.50	97.50	281.25	478-4369-2-ND◆	5,000	270.00/M	02013J0R5PBSTR
		.60pF	±.02pF	478-2714-1-ND▲	12.92	85.50	323.00	—	—	—	02013J0R6PBWTR
		.70pF	±.02pF	478-2715-1-ND▲	12.92	85.50	323.00	—	—	—	02013J0R7PBWTR
		.80pF	±.02pF	478-2716-1-ND	12.92	85.50	323.00	—	—	—	02013J0R8PBWTR
		.90pF	±.02pF	478-2717-1-ND	12.92	85.50	323.00	—	—	—	02013J0R9PBWTR
		1.0pF	±.05pF	478-2718-1-ND	13.20	78.00	225.00	—	—	—	02013J1R0ABWTR
		1.0pF	±.05pF	478-4370-1-ND◆†•	13.20	78.00	225.00	478-4370-2-ND◆	5,000	216.00/M	02013J1R0ABSTR
		1.1pF	±.05pF	478-2719-1-ND	6.12	40.50	153.00	—	—	—	02013J1R1ABWTR
		1.2pF	±.05pF	478-2720-1-ND	13.20	78.00	225.00	—	—	—	02013J1R2ABWTR
		1.2pF	±.05pF	478-4371-1-ND◆†•	13.20	78.00	225.00	478-4371-2-ND◆	5,000	216.00/M	02013J1R2ABSTR
		1.3pF	±.05pF	478-2721-1-ND	13.20	78.00	225.00	478-2721-2-ND	5,000	216.00/M	02013J1R3ABWTR
		1.3pF	±.05pF	478-4372-1-ND◆†•	13.20	78.00	225.00	478-4372-2-ND◆	5,000	216.00/M	02013J1R3ABSTR
		1.4pF	±.05pF	478-2722-1-ND	19.80	117.00	337.50	478-2722-2-ND	5,000	216.00/M	02013J1R4ABWTR
		1.4pF	±.05pF	478-4373-1-ND◆•	13.20	78.00	225.00	478-4373-2-ND◆	5,000	216.00/M	02013J1R4ABSTR
		1.5pF	±.05pF	478-2723-1-ND	13.20	78.00	225.00	—	—	—	02013J1R5ABWTR
		1.5pF	±.05pF	478-4374-1-ND◆†•	13.20	78.00	225.00	478-4374-2-ND◆	5,000	216.00/M	02013J1R5ABSTR
		1.7pF	±.05pF	478-2725-1-ND	6.12	40.50	153.00	—	—	—	02013J1R7ABWTR
		1.8pF	±.05pF	478-2726-1-ND	13.20	78.00	225.00	478-2726-2-ND	5,000	216.00/M	02013J1R8ABWTR
		1.8pF	±.05pF	478-4375-1-ND◆†•	13.20	78.00	225.00	478-4375-2-ND◆	5,000	216.00/M	02013J1R8ABSTR
		1.9pF	±.05pF	478-2727-1-ND	13.20	78.00	225.00	—	—	—	02013J1R9ABWTR
		1.9pF	±.05pF	478-4376-1-ND◆•	13.20	78.00	225.00	478-4376-2-ND◆	5,000	216.00/M	02013J1R9ABSTR
		2.0pF	±.05pF	478-2728-1-ND	13.20	78.00	225.00	478-2728-2-ND	5,000	216.00/M	02013J2R0ABWTR
		2.0pF	±.05pF	478-4377-1-ND◆†•	11.00	65.00	187.50	478-4377-2-ND◆	5,000	180.00/M	02013J2R0ABSTR
		2.1pF	±.10pF	478-2729-1-ND	4.08	27.00	102.00	—	—	—	02013J2R1BBWTR
		2.2pF	±.10pF	478-2730-1-ND	11.00	65.00	187.50	478-2730-2-ND	5,000	180.00/M	02013J2R2BBWTR

◆ ***RoHS Compliant***

(Continued)

Size	WV			Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		AVX
Code	DC	Capacitance	Tolerance	Part No.	10	100	500	Part No.	Qty.	Pricing	Part No.
0201	25V	2.2pF	±.10pF	478-4378-1-ND◆†•	11.00	65.00	187.50	478-4378-2-ND◆	5,000	180.00/M	02013J2R2BBSTR
		2.3pF	±.10pF	478-2731-1-ND	11.00	65.00	187.50	478-2731-2-ND	5,000	180.00/M	02013J2R3BBWTR
		2.3pF	±.10pF	478-4379-1-ND◆•	11.00	65.00	187.50	478-4379-2-ND◆	5,000	180.00/M	02013J2R3BBSTR
		2.4pF	±.10pF	478-2732-1-ND	13.20	78.00	225.00	478-2732-2-ND	5,000	216.00/M	02013J2R4BBWTR
		2.4pF	±.10pF	478-4380-1-ND◆†•	11.00	65.00	187.50	478-4380-2-ND◆	5,000	180.00/M	02013J2R4BBSTR
		2.5pF	±.10pF	478-2733-1-ND	3.40	22.50	85.00	—	—	—	02013J2R5BBWTR
		2.6pF	±.10pF	478-2734-1-ND	3.40	22.50	85.00	478-2734-2-ND	5,000	130.00/M	02013J2R6BBWTR
		2.7pF	±.10pF	478-2735-1-ND	11.00	65.00	187.50	478-2735-2-ND	5,000	180.00/M	02013J2R7BBWTR
		2.7pF	±.10pF	478-4381-1-ND◆†•	11.00	65.00	187.50	478-4381-2-ND◆	5,000	180.00/M	02013J2R7BBSTR
	16V	2.9pF	±.10pF	478-2737-1-ND	4.08	27.00	102.00	—	—	—	0201YJ2R9BBWTR
		3.1pF	±.10pF	478-2739-1-ND	4.08	27.00	102.00	—	—	—	0201YJ3R1BBWTR
		3.3pF	±.10pF	478-2740-1-ND	11.00	65.00	187.50	—	—	—	0201YJ3R3BBWTR
		3.3pF	±.10pF	478-4382-1-ND◆†•	11.00	65.00	187.50	478-4382-2-ND◆	5,000	180.00/M	0201YJ3R3BBSTR
		3.6pF	±.10pF	478-2741-1-ND	4.08	27.00	102.00	—	—	—	0201YJ3R6BBWTR
		3.9pF	±.10pF	478-2742-1-ND	11.00	65.00	187.50	478-2742-2-ND	5,000	180.00/M	0201YJ3R9BBWTR
		3.9pF	±.10pF	478-4383-1-ND◆†•	11.00	65.00	187.50	478-4383-2-ND◆	5,000	180.00/M	0201YJ3R9BBSTR
	10V	4.1pF	±.10pF	478-2743-1-ND	13.20	78.00	225.00	—	—	—	0201ZK4R1BBWTR
		4.1pF	±.10pF	478-4385-1-ND◆•	11.00	65.00	187.50	478-4385-2-ND◆	5,000	180.00/M	0201ZK4R1BBSTR
		4.3pF	±.10pF	478-2744-1-ND	4.08	27.00	102.00	478-2744-2-ND	5,000	156.00/M	0201ZK4R3BBWTR
		4.5pF	±.10pF	478-2745-1-ND	4.08	27.00	102.00	—	—	—	0201ZK4R5BBWTR
		4.7pF	±.10pF	478-2746-1-ND	11.00	65.00	187.50	478-2746-2-ND	5,000	180.00/M	0201ZK4R7BBWTR
		4.7pF	±.10pF	478-4386-1-ND◆†•	11.00	65.00	187.50	478-4386-2-ND◆	5,000	180.00/M	0201ZK4R7BBSTR
		5.6pF	±.10pF	478-2747-1-ND	11.00	65.00	187.50	—	—	—	0201ZK5R6BBWTR
		5.6pF	±.10pF	478-4387-1-ND◆†	11.00	65.00	187.50	478-4387-2-ND◆	5,000	180.00/M	0201ZK5R6BBSTR
		6.8pF	±.10pF	478-2748-1-ND	11.00	65.00	187.50	—	—	—	0201ZK6R8BBWTR
		6.8pF	±.10pF	478-4388-1-ND◆†	11.00	65.00	187.50	478-4388-2-ND◆	5,000	180.00/M	0201ZK6R8BBSTR
		7.5pF	±.10pF	478-2749-1-ND	11.00	65.00	187.50	—	—	—	0201ZK7R5BBWTR
		7.5pF	±.10pF	478-4389-1-ND◆†	11.00	65.00	187.50	478-4389-2-ND◆	5,000	180.00/M	0201ZK7R5BBSTR
		8.2pF	±.10pF	478-2750-1-ND	13.20	78.00	225.00	—	—	—	0201ZK8R2BBWTR
		8.2pF	±.10pF	478-4390-1-ND◆†	11.00	65.00	187.50	478-4390-2-ND◆	5,000	180.00/M	0201ZK8R2BBSTR
		10pF	±2%	478-2751-1-ND	15.40	91.00	262.50	478-2751-2-ND	5,000	252.00/M	0201ZK100GBWTR
		10pF	±2%	478-4384-1-ND◆†	15.40	91.00	262.50	478-4384-2-ND◆	5,000	252.00/M	0201ZK100GBSTR
		12pF	±2%	478-2752-1-ND	6.12	40.50	153.00	—	—	—	0201ZK120GBWTR
0402	25V	.10pF	±.02pF	478-4391-1-ND◆*	49.50	292.50	843.75	478-4391-2-ND◆	5,000	810.00/M	04023J0R1PBSTR
		.20pF	±.02pF	478-2754-1-ND††	49.50	292.50	843.75	478-2754-2-ND	5,000	810.00/M	04023J0R2PBWTR
		.20pF	±.02pF	478-4392-1-ND◆*	49.50	292.50	843.75	478-4392-2-ND◆	5,000	810.00/M	04023J0R2PBSTR
		.30pF	±.02pF	478-2755-1-ND††	49.50	292.50	843.75	478-2755-2-ND	5,000	810.00/M	04023J0R3PBWTR
		.30pF	±.02pF	478-4393-1-ND◆*	49.50	292.50	843.75	478-4393-2-ND◆	5,000	810.00/M	04023J0R3PBSTR
		.40pF	±.02pF	478-2756-1-ND††	49.50	292.50	843.75	478-2756-2-ND	5,000	810.00/M	04023J0R4PBWTR
		.40pF	±.02pF	478-4394-1-ND◆*	49.50	292.50	843.75	478-4394-2-ND◆	5,000	810.00/M	04023J0R4PBSTR
		.50pF	±.02pF	478-2757-1-ND††	49.50	292.50	843.75	478-2757-2-ND	5,000	810.00/M	04023J0R5PBWTR
		.50pF	±.02pF	478-4395-1-ND◆*	49.50	292.50	843.75	478-4395-2-ND◆	5,000	810.00/M	04023J0R5PBSTR
		.60pF	±.02pF	478-2758-1-ND††	49.50	292.50	843.75	478-2758-2-ND	5,000	810.00/M	04023J0R6PBWTR
		.60pF	±.02pF	478-4396-1-ND◆*	49.50	292.50	843.75	478-4396-2-ND◆	5,000	810.00/M	04023J0R6PBSTR
		.70pF	±.02pF	478-2759-1-ND††	49.50	292.50	843.75	478-2759-2-ND	5,000	810.00/M	04023J0R7PBWTR
		.70pF	±.02pF	478-4397-1-ND◆*	49.50	292.50	843.75	478-4397-2-ND◆	5,000	810.00/M	04023J0R7PBSTR
		.80pF	±.02pF	478-2760-1-ND	49.50	292.50	843.75	478-2760-2-ND	5,000	810.00/M	04023J0R8PBWTR
		.80pF	±.02pF	478-4398-1-ND◆	49.50	292.50	843.75	478-4398-2-ND◆	5,000	810.00/M	04023J0R8PBSTR
		.90pF	±.02pF	478-2761-1-ND	49.50	292.50	843.75	478-2761-2-ND	5,000	810.00/M	04023J0R9PBWTR
		.90pF	±.02pF	478-4399-1-ND◆	49.50	292.50	843.75	478-4399-2-ND◆	5,000	810.00/M	04023J0R9PBSTR
		1.0pF	±.05pF	478-2762-1-ND	19.80	117.00	337.50	478-2762-2-ND	5,000	324.00/M	04023J1R0ABWTR
		1.0pF	±.05pF	478-4400-1-ND◆★	19.80	117.00	337.50	478-4400-2-ND◆	5,000	324.00/M	04023J1R0ABSTR
		1.1pF	±.05pF	478-2763-1-ND	19.80	117.00	337.50	478-2763-2-ND	5,000	324.00/M	04023J1R1ABWTR
		1.1pF	±.05pF	478-4401-1-ND◆★	19.80	117.00	337.50	478-4401-2-ND◆	5,000	324.00/M	04023J1R1ABSTR
		1.2pF	±.05pF	478-2764-1-ND	19.80	117.00	337.50	478-2764-2-ND	5,000	324.00/M	04023J1R2ABWTR
		1.2pF	±.05pF	478-4402-1-ND◆★	19.80	117.00	337.50	478-4402-2-ND◆	5,000	324.00/M	04023J1R2ABSTR
		1.3pF	±.05pF	478-2765-1-ND	19.80	117.00	337.50	478-2765-2-ND	5,000	324.00/M	04023J1R3ABWTR
		1.3pF	±.05pF	478-4403-1-ND◆★	19.80	117.00	337.50	478-4403-2-ND◆	5,000	324.00/M	04023J1R3ABSTR
		1.4pF	±.05pF	478-2766-1-ND	19.80	117.00	337.50	—	—	—	04023J1R4ABWTR
		1.4pF	±.05pF	478-4404-1-ND◆★	19.80	117.00	337.50	478-4404-2-ND◆	5,000	324.00/M	04023J1R4ABSTR
		1.5pF	±.05pF	478-2767-1-ND	19.80	117.00	337.50	478-2767-2-ND	5,000	324.00/M	04023J1R5ABWTR
		1.5pF	±.05pF	478-4405-1-ND◆★	19.80	117.00	337.50	478-4405-2-ND◆	5,000	324.00/M	04023J1R5ABSTR
		1.6pF	±.05pF	478-2768-1-ND	34.10	201.50	581.25	—	—	—	04023J1R6ABWTR
		1.6pF	±.05pF	478-4406-1-ND◆★	32.78	193.70	558.75	478-4406-2-ND◆	5,000	536.00/M	04023J1R6ABSTR
		1.7pF	±.05pF	478-2769-1-ND	19.80	117.00	337.50	478-2769-2-ND	5,000	324.00/M	04023J1R7ABWTR
		1.7pF	±.05pF	478-4407-1-ND◆★	19.80	117.00	337.50	478-4407-2-ND◆	5,000	324.00/M	04023J1R7ABSTR
		1.8pF	±.05pF	478-4408-1-ND◆★	19.80	117.00	337.50	478-4408-2-ND◆	5,000	324.00/M	04023J1R8ABSTR
		1.9pF	±.05pF	478-2771-1-ND	19.80	117.00	337.50	—	—	—	04023J1R9ABWTR
		1.9pF	±.05pF	478-4409-1-ND◆★	19.80	117.00	337.50	478-4409-2-ND◆	5,000	324.00/M	04023J1R9ABSTR
		2.0pF	±.05pF	478-2772-1-ND	19.80	117.00	337.50	478-2772-2-ND	5,000	324.00/M	04023J2R0ABWTR
		2.0pF	±.05pF	478-4410-1-ND◆★	19.80	117.00	337.50	478-4410-2-ND◆	5,000	324.00/M	04023J2R0ABSTR
		2.1pF	±.10pF	478-2773-1-ND	13.20	78.00	225.00	478-2773-2-ND	5,000	216.00/M	04023J2R1BBWTR
		2.1pF	±.10pF	478-4411-1-ND◆★	13.20	78.00	225.00	478-4411-2-ND◆	5,000	216.00/M	04023J2R1BBSTR
		2.2pF	±.10pF	478-2774-1-ND	13.20	78.00	225.00	478-2774-2-ND	5,000	216.00/M	04023J2R2BBWTR
		2.2pF	±.10pF	478-4412-1-ND◆★	13.20	78.00	225.00	478-4412-2-ND◆	5,000	216.00/M	04023J2R2BBSTR
		2.3pF	±.10pF	478-2775-1-ND	13.20	78.00	225.00	478-2775-2-ND	5,000	216.00/M	04023J2R3BBWTR
		2.3pF	±.10pF	478-4413-1-ND◆★	13.20	78.00	225.00	478-4413-2-ND◆	5,000	216.00/M	04023J2R3BBSTR
		2.4pF	±.10pF	478-2776-1-ND	13.20	78.00	225.00	478-2776-2-ND	5,000	216.00/M	04023J2R4BBWTR
		2.4pF	±.10pF	478-4414-1-ND◆★	13.20	78.00	225.00	478-4414-2-ND◆	5,000	216.00/M	04023J2R4BBSTR
		2.5pF	±.10pF	478-2777-1-ND	13.20	78.00	225.00	—	—	—	04023J2R5BBWTR
		2.5pF	±.10pF	478-4415-1-ND◆★	13.20	78.00	225.00	478-4415-2-ND◆	5,000	216.00/M	04023J2R5BBSTR
		2.6pF	±.10pF	478-2778-1-ND	13.20	78.00	225.00	—	—	—	04023J2R6BBWTR
		2.6pF	±.10pF	478-4416-1-ND◆★	13.20	78.00	225.00	478-4416-2-ND◆	5,000	216.00/M	04023J2R6BBSTR
		2.7pF	±.10pF	478-4417-1-ND◆★	13.20	78.00	225.00	478-4417-2-ND◆	5,000	216.00/M	04023J2R7BBSTR
		2.8pF	±.10pF	478-2780-1-ND	13.20	78.00	225.00	—	—	—	04023J2R8BBWTR
		2.8pF	±.10pF	478-4418-1-ND◆★	13.20	78.00	225.00	478-4418-2-ND◆	5,000	216.00/M	04023J2R8BBSTR
		2.9pF	±.10pF	478-2781-1-ND	13.20	78.00	225.00	—	—	—	04023J2R9BBWTR
		2.9pF	±.10pF	478-4419-1-ND◆★	13.20	78.00	225.00	478-4419-2-ND◆	5,000	216.00/M	04023J2R9BBSTR
		3.0pF	±.10pF	478-2782-1-ND	13.20	78.00	225.00	—	—	—	04023J3R0BBWTR
		3.0pF	±.10pF	478-4420-1-ND◆★	13.20	78.00	225.00	478-4420-2-ND◆	5,000	216.00/M	04023J3R0BBSTR
		3.1pF	±.10pF	478-2783-1-ND	13.20	78.00	225.00	—	—	—	04023J3R1BBWTR
		3.1pF	±.10pF	478-4421-1-ND◆★	13.20	78.00	225.00	478-4421-2-ND◆	5,000	216.00/M	04023J3R1BBSTR
		3.3pF	±.10pF	478-2784-1-ND	13.20	78.00	225.00	—	—	—	04023J3R3BBWTR
		3.3pF	±.10pF	478-4422-1-ND◆★	13.20	78.00	225.00	478-4422-2-ND◆	5,000	216.00/M	04023J3R3BBSTR
		3.6pF	±.10pF	478-2785-1-ND	13.20	78.00	225.00	—	—	—	04023J3R6BBWTR
		3.6pF	±.10pF	478-4423-1-ND◆★	13.20	78.00	225.00	478-4423-2-ND◆	5,000	216.00/M	04023J3R6BBSTR
		3.9pF	±.10pF	478-2786-1-ND	13.20	78.00	225.00	478-2786-2-ND	5,000	216.00/M	04023J3R9BBWTR
		3.9pF	±.10pF	478-4424-1-ND◆★	13.20	78.00	225.00	478-4424-2-ND◆	5,000	216.00/M	04023J3R9BBSTR
		4.1pF	±.10pF	478-2787-1-ND	13.20	78.00	225.00	478-2787-2-ND	5,000	216.00/M	04023J4R1BBWTR
		4.1pF	±.10pF	478-4425-1-ND◆★	13.20	78.00	225.00	478-4425-2-ND◆	5,000	216.00/M	04023J4R1BBSTR
		4.3pF	±.10pF	478-2788-1-ND	13.20	78.00	225.00	478-2788-2-ND	5,000	216.00/M	04023J4R3BBWTR
		4.3pF	±.10pF	478-4426-1-ND◆★	13.20	78.00	225.00	478-4426-2-ND◆	5,000	216.00/M	04023J4R3BBSTR
		4.5pF	±.10pF	478-2789-1-ND	13.20	78.00	225.00	478-2789-2-ND	5,000	216.00/M	04023J4R5BBWTR
		4.5pF	±.10pF	478-4427-1-ND◆★	13.20	78.00	225.00	478-4427-2-ND◆	5,000	216.00/M	04023J4R5BBSTR
		4.7pF	±.10pF	478-2790-1-ND	13.20	78.00	225.00	—	—	—	04023J4R7BBWTR

◆ RoHS Compliant

(Continued)

AVX Accu-P® Series Thin Film RF/Microwave Multilayer Chip Capacitors *(Cont.)*

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AVX Part No.
0402	25V	4.7pF	±.10pF	478-4428-1-ND◆★	13.20	78.00	225.00	478-4428-2-ND◆	5,000	216.00/M	04023J4R7BBSTR
		5.6pF	±.10pF	478-2791-1-ND	13.20	78.00	225.00	—	—	—	04023J5R6BBWTR
		5.6pF	±.10pF	478-4429-1-ND◆	13.20	78.00	225.00	478-4429-2-ND◆	5,000	216.00/M	04023J5R6BBSTR
		6.8pF	±.10pF	478-4430-1-ND◆	13.20	78.00	225.00	478-4430-2-ND◆	5,000	216.00/M	04023J6R8BBSTR
	16V	8.2pF	±.10pF	478-4432-1-ND◆	13.20	78.00	225.00	478-4432-2-ND◆	5,000	216.00/M	0402YJ8R2BBSTR
		10pF	±2%	478-4431-1-ND◆	19.80	117.00	337.50	478-4431-2-ND◆	5,000	324.00/M	0402YJ100GBSTR
	10V	12pF	±2%	478-4433-1-ND◆	19.80	117.00	337.50	478-4433-2-ND◆	5,000	324.00/M	0402ZJ120GBSTR
		15pF	±2%	478-2796-1-ND	19.80	117.00	337.50	478-2796-2-ND	5,000	324.00/M	0402ZJ150GBWTR
		15pF	±2%	478-4434-1-ND◆	19.80	117.00	337.50	478-4434-2-ND◆	5,000	324.00/M	0402ZK150GBSTR
		18pF	±2%	478-2797-1-ND	19.80	117.00	337.50	—	—	—	0402ZK180GBWTR
		18pF	±2%	478-4435-1-ND◆	19.80	117.00	337.50	478-4435-2-ND◆	5,000	324.00/M	0402ZK180GBSTR
		22pF	±2%	478-2798-1-ND	19.80	117.00	337.50	478-2798-2-ND	5,000	324.00/M	0402ZK220GBWTR
		22pF	±2%	478-4436-1-ND◆	19.80	117.00	337.50	478-4436-2-ND◆	5,000	324.00/M	0402ZK220GBSTR
0603	50V	.10pF	±.02pF	478-2799-1-ND	49.50	292.50	843.75	478-2799-2-ND	3,000	810.00/M	06035J0R1PBTTR
		.10pF	±.02pF	478-4437-1-ND◆Δ	49.50	292.50	843.75	478-4437-2-ND◆	3,000	810.00/M	06035J0R1PBSTR
		.20pF	±.02pF	478-2800-1-ND	49.50	292.50	843.75	478-2800-2-ND	3,000	810.00/M	06035J0R2PBTTR
		.20pF	±.02pF	478-4438-1-ND◆Δ	49.50	292.50	843.75	478-4438-2-ND◆	3,000	810.00/M	06035J0R2PBSTR
		.30pF	±.02pF	478-2801-1-ND	49.50	292.50	843.75	478-2801-2-ND	3,000	810.00/M	06035J0R3PBTTR
		.30pF	±.02pF	478-4439-1-ND◆Δ	49.50	292.50	843.75	478-4439-2-ND◆	3,000	810.00/M	06035J0R3PBSTR
		.40pF	±.02pF	478-2802-1-ND	49.50	292.50	843.75	478-2802-2-ND	3,000	810.00/M	06035J0R4PBTTR
		.40pF	±.02pF	478-4440-1-ND◆Δ	49.50	292.50	843.75	478-4440-2-ND◆	3,000	810.00/M	06035J0R4PBSTR
		.50pF	±.02pF	478-2803-1-ND	49.50	292.50	843.75	478-2803-2-ND	3,000	810.00/M	06035J0R5PBTTR
		.50pF	±.02pF	478-4441-1-ND◆Δ	49.50	292.50	843.75	478-4441-2-ND◆	3,000	810.00/M	06035J0R5PBSTR
		.60pF	±.02pF	478-2804-1-ND	49.50	292.50	843.75	—	—	—	06035J0R6PBTTR
		.60pF	±.02pF	478-4442-1-ND◆Δ	49.50	292.50	843.75	478-4442-2-ND◆	3,000	810.00/M	06035J0R6PBSTR
		.70pF	±.02pF	478-2805-1-ND	49.50	292.50	843.75	478-2805-2-ND	3,000	810.00/M	06035J0R7PBTTR
		.70pF	±.02pF	478-4445-1-ND◆Δ	49.50	292.50	843.75	478-4445-2-ND◆	3,000	810.00/M	06035J0R7PBSTR
		.80pF	±.02pF	478-2806-1-ND	49.50	292.50	843.75	478-2806-2-ND	3,000	810.00/M	06035J0R8PBTTR
		.80pF	±.02pF	478-4446-1-ND◆Δ	49.50	292.50	843.75	478-4446-2-ND◆	3,000	810.00/M	06035J0R8PBSTR
		.90pF	±.02pF	478-2807-1-ND	49.50	292.50	843.75	478-2807-2-ND	3,000	810.00/M	06035J0R9PBTTR
		.90pF	±.02pF	478-4447-1-ND◆Δ	49.50	292.50	843.75	478-4447-2-ND◆	3,000	810.00/M	06035J0R9PBSTR
		1.0pF	±.10pF	478-2808-1-ND	25.30	149.50	431.25	478-2808-2-ND	3,000	414.00/M	06035J1R0BBTTR
		1.0pF	±.10pF	478-4450-1-ND◆Δ	25.30	149.50	431.25	478-4450-2-ND◆	3,000	414.00/M	06035J1R0BBSTR
		1.1pF	±.10pF	478-2809-1-ND	25.30	149.50	431.25	478-2809-2-ND	3,000	414.00/M	06035J1R1BBTTR
		1.1pF	±.10pF	478-4451-1-ND◆Δ	25.30	149.50	431.25	478-4451-2-ND◆	3,000	414.00/M	06035J1R1BBSTR
		1.2pF	±.10pF	478-2810-1-ND	25.30	149.50	431.25	478-2810-2-ND	3,000	414.00/M	06035J1R2BBTTR
		1.2pF	±.10pF	478-4452-1-ND◆Δ	25.30	149.50	431.25	478-4452-2-ND◆	3,000	414.00/M	06035J1R2BBSTR
		1.5pF	±.10pF	478-2811-1-ND	25.30	149.50	431.25	—	—	—	06035J1R5BBTTR
		1.5pF	±.10pF	478-4453-1-ND◆Δ	25.30	149.50	431.25	478-4453-2-ND◆	3,000	414.00/M	06035J1R5BBSTR
		1.8pF	±.10pF	478-2812-1-ND	25.30	149.50	431.25	—	—	—	06035J1R8BBTTR
		1.8pF	±.10pF	478-4454-1-ND◆Δ	25.30	149.50	431.25	478-4454-2-ND◆	3,000	414.00/M	06035J1R8BBSTR
		2.0pF	±.10pF	478-2813-1-ND	25.30	149.50	431.25	—	—	—	06035J2R0BBTTR
		2.0pF	±.10pF	478-4455-1-ND◆Δ	25.30	149.50	431.25	478-4455-2-ND◆	3,000	414.00/M	06035J2R0BBSTR
		2.2pF	±.10pF	478-2814-1-ND	25.30	149.50	431.25	—	—	—	06035J2R2BBTTR
		2.2pF	±.10pF	478-4456-1-ND◆Δ	25.30	149.50	431.25	478-4456-2-ND◆	3,000	414.00/M	06035J2R2BBSTR
		2.4pF	±.10pF	478-2815-1-ND	25.30	149.50	431.25	478-2815-2-ND	3,000	414.00/M	06035J2R4BBTTR
		2.4pF	±.10pF	478-4457-1-ND◆Δ	25.30	149.50	431.25	478-4457-2-ND◆	3,000	414.00/M	06035J2R4BBSTR
		2.7pF	±.10pF	478-2816-1-ND	25.30	149.50	431.25	478-2816-2-ND	3,000	414.00/M	06035J2R7BBTTR
		2.7pF	±.10pF	478-4458-1-ND◆Δ	25.30	149.50	431.25	478-4458-2-ND◆	3,000	414.00/M	06035J2R7BBSTR
		3.0pF	±.10pF	478-4459-1-ND◆Δ	25.30	149.50	431.25	478-4459-2-ND◆	3,000	414.00/M	06035J3R0BBSTR
		3.3pF	±.10pF	478-2818-1-ND	25.30	149.50	431.25	—	—	—	06035J3R3BBTTR
		3.3pF	±.10pF	478-4460-1-ND◆Δ	25.30	149.50	431.25	478-4460-2-ND◆	3,000	414.00/M	06035J3R3BBSTR
		3.9pF	±.10pF	478-2819-1-ND	25.30	149.50	431.25	478-2819-2-ND	3,000	414.00/M	06035J3R9BBTTR
		3.9pF	±.10pF	478-4461-1-ND◆Δ	25.30	149.50	431.25	478-4461-2-ND◆	3,000	414.00/M	06035J3R9BBSTR
		4.7pF	±.10pF	478-2820-1-ND	25.30	149.50	431.25	478-2820-2-ND	3,000	414.00/M	06035J4R7BBTTR
		4.7pF	±.10pF	478-4462-1-ND◆Δ	25.30	149.50	431.25	478-4462-2-ND◆	3,000	414.00/M	06035J4R7BBSTR
		5.6pF	±.10pF	478-2821-1-ND	25.30	149.50	431.25	478-2821-2-ND	3,000	414.00/M	06035J5R6BBTTR
		5.6pF	±.10pF	478-4463-1-ND◆Δ	25.30	149.50	431.25	478-4463-2-ND◆	3,000	414.00/M	06035J5R6BBSTR
		6.8pF	±.10pF	478-2822-1-ND	25.30	149.50	431.25	478-2822-2-ND	3,000	414.00/M	06035J6R8BBTTR
		6.8pF	±.10pF	478-4464-1-ND◆Δ	25.30	149.50	431.25	478-4464-2-ND◆	3,000	414.00/M	06035J6R8BBSTR
		8.2pF	±.10pF	478-4465-1-ND◆Δ	25.30	149.50	431.25	478-4465-2-ND◆	3,000	414.00/M	06035J8R2BBSTR
		10pF	±2%	478-2824-1-ND	25.30	149.50	431.25	478-2824-2-ND	3,000	414.00/M	06035J100GBTTR
		10pF	±2%	478-4448-1-ND◆Δ	25.30	149.50	431.25	478-4448-2-ND◆	3,000	414.00/M	06035J100GBSTR
		12pF	±2%	478-2825-1-ND	25.30	149.50	431.25	478-2825-2-ND	3,000	414.00/M	06035J120GBTTR
		12pF	±2%	478-4449-1-ND◆Δ	25.30	149.50	431.25	478-4449-2-ND◆	3,000	414.00/M	06035J120GBSTR
	25V	15pF	±2%	478-2826-1-ND	25.30	149.50	431.25	478-2826-2-ND	3,000	414.00/M	06033J150GBTTR
		15pF	±2%	478-4443-1-ND◆Δ	25.30	149.50	431.25	478-4443-2-ND◆	3,000	414.00/M	06033J150GBSTR
		22pF	±2%	478-4444-1-ND◆Δ	25.30	149.50	431.25	478-4444-2-ND◆	3,000	414.00/M	06033J220GBSTR

◆ ***RoHS Compliant***

Designer Kits

▲	**478-2834-ND**	20 each of values denoted plus values: (pF) 0.05, 0.15, 0.25, 0.35, 0.45, 0.55, 0.65, 0.75 not stocked by Digi-Key (300 total pieces)	**$178.75**
‡	**478-4468-ND**	20 each of values denoted plus values: (pF) 0.05, 0.15, 0.25, 0.35, 0.45, 0.55, 0.65, 0.75 not stocked by Digi-Key (300 total pieces) ***RoHS Compliant***	**$178.75**
††	**478-2832-ND**	20 each of values denoted plus values: (pF) 0.05, 0.15, 0.25, 0.35, 0.45, 0.55, 0.65, 0.75 not stocked by Digi-Key (300 total pieces)	**$178.75**
*	**478-4470-ND**	20 each of values denoted plus values: (pF) 0.05, 0.15, 0.25, 0.35, 0.45, 0.55, 0.65, 0.75 not stocked by Digi-Key (300 total pieces) ***RoHS Compliant***	**$178.75**
★	**478-4469-ND**	20 each of values denoted plus value (pF) 3.4 not stocked by Digi-Key (600 total pieces) ***RoHS Compliant***	**$178.75**
Δ	**478-4471-ND**	20 each of values denoted plus value: (pF) 18 not stocked by Digi-Key (600 total pieces) ***RoHS Compliant***	**$148.96**
†	**478-4466-ND**	20 each of values denoted (600 total pieces) ***RoHS Compliant***	**$178.75**
•	**478-4467-ND**	20 each of values denoted (600 total pieces) ***RoHS Compliant***	**$178.75**

U Series Capacitors

"U" Series Capacitors are C0G (NP0) chip capacitors specially designed for "Ultra" low ESR for applications in the communications market. Max ESR and effective capacitance are met on each value producing lot to lot uniformity.

Specifications: • Insulation Resistance: 10^{12} Ω minimum @ 25°C • Operating Temperature: -55°C ~ 125°C

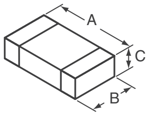

Size Code	Dimensions - Inch (mm) A	B	C
0402	0.039 (1.00)	0.020 (0.50)	0.024 (0.6)
0603	0.060 (1.52)	0.030 (0.76)	0.036 (0.91)
0805	0.079 (2.01)	0.049 (1.25)	0.040 (1.02)

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AVX Part No.
0402	C0G (NP0)	50V	1.0pF	±0.1pF	478-3832-1-ND	1.82	10.73	30.94	478-3832-2-ND	10,000	30.00/M	04025U1R0BAT2A
		50V	2.0pF	±0.1pF	478-3833-1-ND	1.82	10.73	30.94	478-3833-2-ND	10,000	30.00/M	04025U2R0BAT2A
		50V	10pF	±5%	478-3831-1-ND	1.24	7.35	21.19	478-3831-2-ND	10,000	20.00/M	04025U100JAT2A
0603	C0G (NP0)	200V	1.0pF	±0.25pF	478-3836-1-ND	21.45	126.75	365.63	478-3836-2-ND	4,000	351.00/M	06032U1R0CAT2A
		200V	1.6pF	±0.1pF	478-3837-1-ND	3.85	22.75	65.63	478-3837-2-ND	4,000	63.00/M	06032U1R6BAT2A
		200V	2.0pF	±0.1pF	478-3838-1-ND	3.85	22.75	65.63	478-3838-2-ND	4,000	63.00/M	06032U2R0BAT2A
		200V	2.2pF	±0.25pF	478-3839-1-ND	21.45	126.75	365.63	478-3839-2-ND	4,000	351.00/M	06032U2R2CAT2A
		200V	2.7pF	±0.1pF	478-3840-1-ND	3.85	22.75	65.63	478-3840-2-ND	4,000	63.00/M	06032U2R7BAT2A

(Continued)

AVX U Series Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0603	C0G (NP0)	200V	7.5pF	±0.25pF	478-3841-1-ND	3.08	18.20	52.50	478-3841-2-ND	4,000	50.00/M	06032U7R5CAT2A
		200V	8.2pF	±0.25pF	478-3842-1-ND	21.45	126.75	365.63	478-3842-2-ND	4,000	351.00/M	06032U8R2CAT2A
		200V	10pF	±5%	478-3835-1-ND	19.03	112.45	324.38	478-3835-2-ND	4,000	311.00/M	06032U100JAT2A
		100V	27pF	±5%	478-3834-1-ND	19.03	112.45	324.38	478-3834-2-ND	4,000	311.00/M	06031U270JAT2A
0805	C0G (NP0)	200V	1.0pF	±0.25pF	478-3843-1-ND	23.65	139.75	403.13	478-3843-2-ND	2,000	387.00/M	08052U1R0CAT2A
		200V	2.2pF	±0.25pF	478-3845-1-ND	5.28	31.20	90.00	478-3845-2-ND	2,000	86.00/M	08052U2R2CAT2A
		200V	3.3pF	±0.5pF	478-3846-1-ND	4.18	24.70	71.25	478-3846-2-ND	2,000	68.00/M	08052U3R3DAT2A
		200V	3.9pF	±0.25pF	478-3847-1-ND	5.28	31.20	90.00	478-3847-2-ND	2,000	86.00/M	08052U3R9CAT2A
		200V	4.7pF	±0.25pF	478-3849-1-ND	5.28	31.20	90.00	478-3849-2-ND	2,000	86.00/M	08052U4R7CAT2A
		200V	6.8pF	±0.25pF	478-3850-1-ND	23.65	139.75	403.13	478-3850-2-ND	2,000	387.00/M	08052U6R8CAT2A
		200V	27pF	±5%	478-3844-1-ND	3.85	22.75	65.63	478-3844-2-ND	2,000	63.00/M	08052U270JAT2A
		200V	47pF	±2%	478-3848-1-ND	23.65	139.75	403.13	478-3848-2-ND	2,000	387.00/M	08052U470GAT2A
		200V	47pF	±1%	478-3830-1-ND	8.80	52.00	150.00	478-3830-2-ND	2,000	144.00/M	08052U470FAT2A

Low Inductance Capacitors 0612/0508 IDC (InterDigitated Capacitors)

Very low equivalent series inductance, surface mountable, high speed decoupling capacitor. Measured inductances of 120pH (for 0612) and 95pH (for 0508) are the lowest in the FR4 mountable device family. Opposing current flow creates opposing magnetic fields. This causes the fields to cancel, effectively reducing the equivalent series inductance. Perfect solution for decoupling high speed microprocessors by allowing the engineers to lower the power delivery inductance of the entire system through the use of eight terminals. Overall reduction in decoupling components due to very low series inductance and high capacitance.

Characteristics:
• Temperature Coefficient: ±15% (OVDC) • Dissipation Factor: 4V and 6.3V=6.5% Maximum, 10V=5.0% Maximum, 16V=3.5% Maximum • Insulation (ppm/C): 12.0 • Thermal Conductivity: 4-5W/M K • Terminations Available: Plated Nickel and Solder • Maximum Thickness: 0.037" (0.95mm)

• Operating Temperature: **X7R:** -55°C ~ 125°C, **X5R:** -55°C ~ 85°C

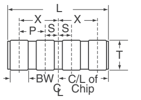

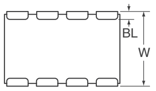

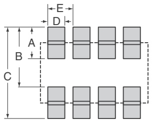

Size Code	Dimensions (mm) A	B	C	D	E	L	T	W	BW	BL	P	X	S
0508	0.64	1.27	1.91	0.28	0.51	2.03 ±0.20	0.965 Max.	1.27 ±0.20	0.254 ±0.10	0.18 +0.25/-0.08	0.508 REF	0.76 ±0.10	0.254 ±0.10
0612	0.89	1.65	2.54	0.46	0.76	3.20 ±0.20	1.22 Max.	1.60 ±0.20	0.41 ±0.10	0.18 +0.25/-0.08	0.76 REF	1.14 ±0.10	0.38 ±0.10

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance %	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0508	X7R	16V	47000pF	±20	478-2326-1-ND	3.52	2.08	1.20	478-2326-2-ND	4,000	576.00/M	W2L1YC473MAT1S
		16V	68000pF	±20	478-2327-1-ND	3.52	2.08	1.20	478-2327-2-ND	4,000	576.00/M	W2L1YC683MAT1S
		16V	.1µF	±20	478-2121-1-ND	3.63	2.15	1.24	478-2121-2-ND	4,000	594.00/M	W2L1YC104MAT1A
		16V	.22µF	±20	478-2329-1-ND	3.96	2.34	1.35	478-2329-2-ND	4,000	648.00/M	W2L1YC224MAT1A
		10V	.1µF	±20	478-2122-1-ND	3.63	2.15	1.24	478-2122-2-ND	4,000	594.00/M	W2L1ZC104MAT1S
		10V	.22µF	±20	478-2328-1-ND	3.85	2.28	1.32	478-2328-2-ND	4,000	630.00/M	W3L1ZC224MAT1A
		10V	.47µF	±20	478-2123-1-ND	3.85	2.28	1.32	478-2123-2-ND	4,000	630.00/M	W2L1ZC474MAT1A
		4.0V	.33µF	±20	478-2330-1-ND	4.29	2.54	1.47	478-2330-2-ND	4,000	702.00/M	W2L14C334MAT1A
		4.0V	1.0µF	±20	478-2126-1-ND	4.29	2.54	1.47	478-2126-2-ND	4,000	702.00/M	W2L14C105MAT1A
	X5R	10V	.33µF	±20	478-2331-1-ND	4.18	2.47	1.43	478-2331-2-ND	4,000	684.00/M	W2L1ZD334MAT1S
		10V	.47µF	±20	478-2124-1-ND	3.85	2.28	1.32	478-2124-2-ND	4,000	630.00/M	W2L1ZD474MAT1S
		6.3V	1.0µF	±20	478-2125-1-ND	4.40	2.60	1.50	478-2125-2-ND	4,000	720.00/M	W2L16D105MAT1A
		4.0V	1.5µF	±20	478-2127-1-ND	3.85	2.28	1.32	478-2127-2-ND	4,000	630.00/M	W2L14D155MAT1A
		4.0V	2.2µF	±20	478-4631-1-ND	4.62	2.73	1.58	478-4631-2-ND	4,000	756.00/M	W2L14D225MAT1A
0612	X7R	16V	.22µF	±20	478-2335-1-ND	3.85	2.28	1.32	478-2335-2-ND	4,000	630.00/M	W3L1YC224MAT1S
		16V	.33µF	±20	478-2334-1-ND	3.96	2.34	1.35	478-2334-2-ND	4,000	648.00/M	W3L1YC334MAT1A
		16V	.47µF	±20	478-2128-1-ND	4.09	2.42	1.40	478-2128-2-ND	4,000	667.80/M	W3L1YC474MAT1A
		10V	.68µF	±20	478-2333-1-ND	4.24	2.51	1.45	478-2333-2-ND	2,000	693.00/M	W3L1ZC684MAT1A
		10V	1.0µF	±20	478-2129-1-ND	4.62	2.73	1.58	478-2129-2-ND	2,000	756.00/M	W3L1ZC105MAT1A
		4.0V	2.2µF	±20	478-2131-1-ND	4.95	2.93	1.69	478-2131-2-ND	2,000	810.00/M	W3L14C225MAT1A
	X5R	10V	2.2µF	±20	478-2332-1-ND	4.62	2.73	1.58	478-2332-2-ND	4,000	756.00/M	W3L1ZD225MAT1A
		6.3V	2.2µF	±20	478-2130-1-ND	4.95	2.93	1.69	478-2130-2-ND	4,000	810.00/M	W3L16D225MAT1A
		4.0V	3.3µF	±20	478-2132-1-ND	4.95	2.93	1.69	478-2132-2-ND	4,000	810.00/M	W3L14D335MAT1A

Tip and Ring Multilayer Ceramic Chip Capacitors

AVX Tip and Ring or ring detector multilayer ceramic chip capacitors are designed as a standard telecom filter to block -48 volts DC telephone line voltage and pass subscriber's AC signal pulse (16 to 25Hz, 70 to 90Vrms). The ringer capacitors replace large leaded film capacitors and are ideal for telecom/modern applications. These capacitors not only save valuable real estate on the board and reduce the weight of the overall product, but they all feature standard surface mounting capabilities that are so critical to new and compact designs.

Specifications: • Operating Voltage Range: -55°C ~ 125°C • Dielectric Strength: 250% of rated voltage for 5 seconds at 50mA maximum current • Dissipation Factor: 2.5% maximum

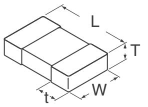

Size Code	Dimensions (mm) L	W	T	t
0805	2.01 ±0.20	1.25 ±0.20	1.30 max.	0.50 ±0.25
1206	3.20 ±0.20	1.60 ±0.20	1.50 max.	0.50 ±0.25
1210	3.2 ±0.20	2.50 ±0.20	1.78 max.	0.50 ±0.25
1808	4.57 ±0.25	2.03 ±0.25	1.78 max.	0.63 ±0.38
1812	4.50 ±0.30	3.2 ±0.20	2.00 max.	0.63 ±0.38
1825	4.50 ±0.30	6.34 ±0.30	2.00 max.	0.63 ±0.38
2220	5.60 ±0.30	5.10 ±0.40	2.00 max.	0.63 ±0.38
2225	5.60 ±0.25	6.35 ±0.25	2.00 max.	0.63 ±0.38

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance %	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0805	X7R	250V	1500pF	±10	478-3976-1-ND	1.65	.98	.57	478-3976-2-ND	2,000	270.00/M	0805PC152KAT1A
		250V	6800pF	±10	478-3979-1-ND	1.65	.98	.57	478-3979-2-ND	2,000	270.00/M	0805PC682KAT1A
		250V	10000pF	±10	478-3975-1-ND	1.32	.78	.45	478-3975-2-ND	2,000	216.00/M	0805PC103KAT1A
		250V	15000pF	±10	478-3977-1-ND	1.65	.98	.57	478-3977-2-ND	2,000	270.00/M	0805PC153KAT1A
		250V	22000pF	±10	478-3978-1-ND	1.65	.98	.57	478-3978-2-ND	2,000	270.00/M	0805PC223KAT1A
1206	X7R	250V	27000pF	±10	478-3980-1-ND	1.98	1.17	.68	478-3980-2-ND	2,000	324.00/M	1206PC273KAT1A
		250V	39000pF	±10	478-3981-1-ND	1.98	1.17	.68	478-3981-2-ND	2,000	324.00/M	1206PC393KAT1A
1210	X7R	250V	.10µF	±10	478-3982-1-ND	.88	.52	.30	478-3982-2-ND	2,000	144.00/M	1210PC104KAT1A
1808	X7R	250V	.10µF	±10	478-3983-1-ND	3.08	1.82	1.05	478-3983-2-ND	2,000	504.00/M	1808PC104KAT1A
		250V	.22µF	±10	478-3984-1-ND	3.08	1.82	1.05	478-3984-2-ND	2,000	504.00/M	1808PC224KAT1A
1812	X7R	250V	.10µF	±10	478-3985-1-ND	3.30	1.95	1.13	478-3985-2-ND	1,000	540.00	1812PC104KAT1A
		250V	.22µF	±10	478-3986-1-ND	2.64	1.56	.90	478-3986-2-ND	1,000	432.00	1812PC224KAT1A
		250V	.33µF	±10	478-3987-1-ND	3.30	1.95	1.13	478-3987-2-ND	1,000	540.00	1812PC334KAT1A
		250V	.47µF	±10	478-3988-1-ND	3.30	1.95	1.13	478-3988-2-ND	1,000	540.00	1812PC474KAT1A
1825	X7R	250V	.47µF	±10	478-3990-1-ND	4.29	2.54	1.47	478-3990-2-ND	1,000	702.00	1825PC474KAT1A
		250V	.56µF	±10	478-3991-1-ND	4.29	2.54	1.47	478-3991-2-ND	1,000	702.00	1825PC564KAT1A
		250V	1.0µF	±10	478-3989-1-ND	4.29	2.54	1.47	478-3989-2-ND	1,000	702.00	1825PC105KAT1A
2220	X7R	250V	.47µF	±10	478-3992-1-ND	8.14	4.81	2.78	478-3992-2-ND	1,000	1332.00	2220PC474KAT1A
		250V	1.0µF	±10	478-4740-1-ND ***NEW!***	7.15	4.23	2.44	478-4740-2-ND ***NEW!***	1,000	1170.00	2220PC105KAT1A
2225	X7R	250V	1.0µF	±10	478-3993-1-ND	4.95	2.93	1.69	478-3993-2-ND	1,000	810.00	2225PC105KAT1A
		250V	1.2µF	±10	478-3994-1-ND	8.14	4.81	2.78	478-3994-2-ND	1,000	1332.00	2225PC125KAT1A
		250V	1.0µF	±20	478-4718-1-ND ***NEW!***	4.40	2.60	1.50	478-4718-2-ND ***NEW!***	1,000	720.00	2225PC105MAT1A

AVX Low Inductance Capacitors

The total inductance of a chip capacitor is determined both by its length to width ratio and by the mutual inductance coupling between its electrodes. Thus a 1210 chip size has a lower inductance than a 1206 chip. This design improvement is the basis of AVX's Low Inductance Chip Capacitors (LICC), where the electrodes are terminated on the long side of the chip instead of the short side. The 1206 becomes a 0612, in the same manner, a 0805 becomes a 0508, a 0603 becomes a 0306. This results in a reduction in inductance for the 1nH range found in normal chip capacitors to less tan 0.2nH for LICC's. Their low profile is also ideal for surface mounting (both on the PCB and on the IC package) or inside cavity mounting on the IC itself.

Characteristics: • Operating Temperature Range: X7R: -55°C ~ 125°C, X5R: -55°C ~ 85°C • Temperature Coefficient: ±15% (0VDC) • Dissipation Factor: 10V = 5.0% maximum; 16V = 3.5% maximum; 25V = 3.0% maximum • Insulation Resistance (@ 25°C RVDC): 100,000MΩ minimum or 1,000MΩ per µF whichever is less.

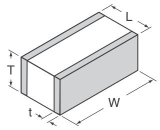

Size Code	Dimensions - Inch (mm) L	W	t
0306	0.032 ±0.006 (0.81 ±0.15)	0.063 ±0.006 (1.60 ±0.15)	0.005 min. (0.13 min.)
0508	0.050 ±0.010 (1.27 ±0.25)	0.080 ±0.010 (2.00 ±0.25)	0.005 min. (0.13 min.)
0612	0.063 ±0.010 (1.60 ±0.25)	0.126 ±0.010 (3.20 ±0.25)	0.005 min. (0.13 min.)

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	Dimension T Inch (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	AVX Part No.
0306	X7R	25V	10,000pF	±10%	0.024 (0.61)	478-2890-1-ND	24.64	145.60	420.00	478-2890-2-ND	5,000	403.00/M	03063C103KAT2A
		10V	.10µF	±10%	0.024 (0.61)	478-2891-1-ND	26.95	159.25	459.38	478-2891-2-ND	5,000	441.00/M	0306ZC104KAT2A
		10V	.10µF	±20%	0.024 (0.61)	478-2892-1-ND	26.95	159.25	459.38	478-2892-2-ND	5,000	441.00/M	0306ZC104MAT2A
		10V	.22µF	±20%	0.024 (0.61)	478-2893-1-ND	26.95	159.25	459.38	478-2893-2-ND	5,000	441.00/M	0306ZC224MAT2A
0508	X7R	50V	10,000pF	±10%	0.040 (1.02)	478-2894-1-ND	23.10	136.50	393.75	478-2894-2-ND	4,000	378.00/M	05085C103KAT2A
		50V	10,000pF	±20%	0.040 (1.02)	478-2895-1-ND	22.00	130.00	375.00	478-2895-2-ND	4,000	360.00/M	05085C103MAT2A
		50V	22,000pF	±20%	0.040 (1.02)	478-2896-1-ND	22.55	133.25	384.38	—	—	—	05085C223MAT2A
		50V	.10µF	±10%	0.040 (1.02)	478-2897-1-ND	26.40	156.00	450.00	478-2897-2-ND	4,000	432.00/M	05085C104KAT2A
		50V	.10µF	±20%	0.040 (1.02)	478-2898-1-ND	25.30	149.50	431.25	478-2898-2-ND	4,000	414.00/M	05085C104MAT2A
		10V	1.0µF	±10%	0.040 (1.02)	478-2899-1-ND	45.10	266.50	768.75	478-2899-2-ND	4,000	738.00/M	0508ZC105KAT2A
0612	X7R	50V	10,000pF	±10%	0.050 (1.27)	478-2900-1-ND	30.80	182.00	525.00	478-2900-2-ND	4,000	504.00/M	06125C103KAT2A
		50V	.10µF	±20%	0.050 (1.27)	478-2901-1-ND	33.00	195.00	562.50	478-2901-2-ND	4,000	540.00/M	06125C104MAT2A
		25V	.22µF	±10%	0.050 (1.27)	478-2902-1-ND	39.60	234.00	675.00	478-2902-2-ND	4,000	648.00/M	06123C224KAT2A
		16V	1.0µF	±10%	0.050 (1.27)	478-2903-1-ND	42.90	253.50	731.25	478-2903-2-ND	2,000	702.00/M	0612YC105KAT2A
		16V	1.0µF	±20%	0.050 (1.27)	478-2904-1-ND	42.90	253.50	731.25	478-2904-2-ND	2,000	702.00/M	0612YC105MAT2A
		10V	.68µF	±20%	0.030 (0.76)	478-2907-1-ND	44.00	260.00	750.00	—	—	—	0612ZC105MAT2V
		10V	2.2µF	±10%	0.050 (1.27)	478-2906-1-ND	42.90	253.50	731.25	478-2906-2-ND	2,000	702.00/M	0612ZC225KAT2A
	X5R	10V	1.0µF	±20%	0.050 (1.27)	478-2905-1-ND	33.00	195.00	562.50	478-2905-2-ND	4,000	540.00/M	0612ZD684MAT2V

Low Inductance LGA Capacitors

AVX has introduced a revolutionary capacitor for low inductance applications. Low inductance LGA (land grid array) capacitors have virtually the equivalent high frequency performance of 8-terminal IDC's (Inter-Digitated Capacitors) but are built in a simplified 2-terminal package.
This provides for lower manufacturing cost and easier handling and design. LGA's are ideal for decoupling in semiconductor package-level and board-level applications.

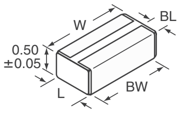

Size Code	WV DC	Cap.	Cap. Tol.	Dimensions - mm L	W	BW	BL	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape and Reel Pricing 4,000	AVX Part No.
0204	6.3V	.10µF	±20%	0.5 ±0.05	1.00 ±0.10	0.8 ±0.10	0.13 ±0.08	478-4083-1-ND	35.20	208.00	600.00	832.00	—	—	LG126D104MAT2S1
		.10µF	±20%	0.5 ±0.05	1.00 ±0.10	0.8 ±0.10	0.13 ±0.08	478-4624-1-ND	35.20	208.00	600.00	832.00	478-4624-2-ND	576.00/M	LG126Z104MAT2S1
0306	4V	.22µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4625-1-ND	39.88	235.63	679.69	942.50	478-4625-2-ND	653.00/M	LG224Z224MAT2S1
		.33µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4626-1-ND	40.15	237.25	684.38	949.00	478-4626-2-ND	657.00/M	LG224Z334MAT2S1
		.47µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4628-1-ND	42.63	251.88	726.56	1007.50	478-4628-2-ND	698.00/M	LG224Z474MAT2S1
	6.3V	.01µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4627-1-ND	40.70	240.50	693.75	962.00	478-4627-2-ND	666.00/M	LG226C103MAT2S1
		.10µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4084-1-ND	28.60	169.00	487.50	676.00	478-4084-2-ND	468.00/M	LG226C104MAT2S1
		.22µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4629-1-ND	42.35	250.25	721.88	1001.00	478-4629-2-ND	693.00/M	LG226D224MAT2S1
		.47µF	±20%	0.76 ±0.10	1.60 ±0.10	1.50 ±0.10	0.28 ±0.08	478-4630-1-ND	42.63	251.88	726.56	1007.50	478-4630-2-ND	698.00/M	LG226D474MAT2S1

Multi-Layer Ceramic Chip Capacitor Arrays

AVX capacitor arrays offer designers the opportunity to lower placement costs, increase assembly line output through lower component count per board, and to reduce real estate requirements.

C0G (NP0) Dielectric: • EIA Class I ceramic materials • C0G (NP0) ceramics offer one of the most stable capacitor dielectrics available • Capacitance change with temperature is 0 ±30ppm/°C, which is less than ±0.3% Δ C from -55°C ~ 125°C • Operating Temperature Range: -55°C ~ 125°C

X7R Dielectric: • X7R formulations are called "temperature stable" ceramics and fall into EIA Class II materials • Its temperature variation of capacitance is within ±15% from -55°C ~ 125°C • Operating Temperature Range: -55°C ~ 125°C

X5R Dielectric: • General purpose dielectric for ceramic capacitors • EIA Class II dielectric • Temperature variation of capacitance is within ±15% from -55°C ~ 85°C • Operating Temperature Range: -55°C ~ 85°C

Fig. 1

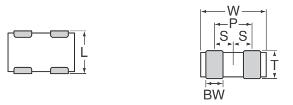

Fig. 2

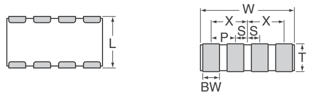

Size Code	Element	Dimensions - Inch (mm) L	W	T	BW	P	X	S
0405	2	0.039 ±0.006 (1.00 ±0.15)	0.054 ±0.006 (1.37 ±0.15)	0.026 Max. (0.66 Max.)	0.014 ±0.004 (0.36 ±0.10)	0.025 REF (0.64 REF)	—	0.013 ±0.004 (0.32 ±0.10)
0508	4	0.051 ±0.006 (1.30 ±0.15)	0.083 ±0.006 (2.10 ±0.15)	0.037 Max. (0.94 Max.)	0.010 ±0.003 (0.25 ±0.06)	0.020 REF (0.50 REF)	0.030 ±0.004 (0.75 ±0.10)	0.010 ±0.004 (0.25 ±0.10)
0612	4	0.063 ±0.008 (1.60 ±0.20)	0.126 ±0.008 (3.20 ±0.20)	0.053 Max. (1.35 Max.)	0.016 ±0.004 (0.41 ±0.10)	0.030 REF (0.76 REF)	0.045 ±0.004 (1.14 ±0.10)	0.015 ±0.004 (0.38 ±0.10)

Fig.	Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	No. of Elements/Array	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Pricing 4,000	AVX Part No.
1	0405	X7R	50	1,000pF	±20%	2	478-2886-1-ND	7.15	42.25	121.88	—	—	W1A25C102MAT2A
		X5R	10	.10µF	±20%	2	478-2884-1-ND	6.38	37.70	108.75	478-2884-2-ND	104.00/M	W1A2ZD104MAT2A
2	0508	C0G(NP0)	100	22pF	±10%	4	478-2888-1-ND	6.60	39.00	112.50	478-2888-2-ND	108.00/M	W2A41A220KAT2A
			100	33pF	±10%	4	478-2887-1-ND	6.60	39.00	112.50	—	—	W2A41A330KAT2A
			100	100pF	±10%	4	478-2885-1-ND	6.60	39.00	112.50	478-2885-2-ND	108.00/M	W2A41A101KAT2A
		X7R	10	.10µF	±20%	4	478-2870-1-ND	6.60	39.00	112.50	478-2870-2-ND	108.00/M	W2A4ZC104MAT2A
			50	10,000pF	±20%	4	478-2873-1-ND	5.39	31.85	91.88	478-2873-2-ND	88.00/M	W2A45C103MAT2A
			50	10,000pF	±10%	4	478-2878-1-ND	6.71	39.65	114.38	478-2878-2-ND	110.00/M	W2A45C103KAT2A
			100	470pF	±20%	4	478-2880-1-ND	6.38	37.70	108.75	—	—	W2A41C471MAT2A
		X5R	10	.10µF	±20%	4	478-2883-1-ND	6.82	40.30	116.25	478-2883-2-ND	112.00/M	W2A4ZD104MAT2A
			10	.10µF	±10%	4	478-2875-1-ND	7.15	42.25	121.88	478-2875-2-ND	117.00/M	W2A4ZD104KAT2A
	0612	C0G(NP0)	100	22pF	±10%	4	478-2881-1-ND	4.73	27.95	80.63	478-2881-2-ND	77.00/M	W3A41A220KAT2A
			100	47pF	±10%	4	478-2872-1-ND	4.73	27.95	80.63	478-2872-2-ND	77.00/M	W3A41A470KAT2A
			100	100pF	±10%	4	478-2876-1-ND	5.72	33.80	97.50	478-2876-2-ND	94.00/M	W3A41A101KAT2A
			100	220pF	±10%	4	478-2882-1-ND	4.95	29.25	84.38	478-2882-2-ND	81.00/M	W3A41A221KAT2A
		X7R	16	.10µF	±20%	4	478-2869-1-ND	7.70	45.50	131.25	478-2869-2-ND	126.00/M	W3A4YC104MAT2A
			16	.10µF	±10%	4	478-2879-1-ND	7.70	45.50	131.25	478-2879-2-ND	126.00/M	W3A4YC104KAT2A
			50	10,000pF	±10%	4	478-2877-1-ND	6.60	39.00	112.50	478-2877-2-ND	108.00/M	W3A45C103KAT2A
			100	1,000pF	±20%	4	478-2874-1-ND	5.72	33.80	97.50	478-2874-2-ND	94.00/M	W3A41C102MAT2A
			100	10,000pF	±20%	4	478-2871-1-ND	4.95	29.25	84.38	478-2871-2-ND	81.00/M	W3A41C103MAT2A

JOHANSON DIELECTRICS

X2Y® Filter and Decoupling Capacitors

X2Y filter capacitors employ a unique, patented low inductance design featuring two balanced capacitors that are immune to temperature, voltage and aging performance differences. These components offer superior decoupling and EMI filtering performance.

Applications: • FPGA/ASIC/µ-P Decoupling • DDR Memory Decoupling • Amplifier Filter and Decoupling • High Speed Data Filtering • Cellular Handsets

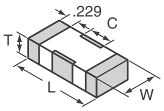

Physical Characteristics — Dimensions in mm			
Series	L	W	C
0603	1.626 ±0.127	0.889 ±0.127	0.457 ±0.102
0805	2.032 ±0.203	1.270 ±0.203	0.559 ±0.127
1206	3.150 ±0.254	1.600 ±0.254	1.016 ±0.127
1410	3.556 ±0.254	2.490 ±0.254	1.143 ±0.127
1812	4.420 ±0.254	3.175 ±0.254	1.143 ±0.127

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Johanson Dielectrics Part No.
							10	100	500		Qty.	Pricing	
0603	NP0	50	5.6pF	±20%	0.660	709-1000-1-ND	7.02	41.47	119.63	709-1000-2-ND	4,000	115.00/M	500X14N5R6MV4T
		50	10pF	±20%	0.660	709-1001-1-ND	7.02	41.47	119.63	709-1001-2-ND	4,000	115.00/M	500X14N100MV4T
		50	22pF	±20%	0.660	709-1002-1-ND	7.02	41.47	119.63	709-1002-2-ND	4,000	115.00/M	500X14N220MV4T
		50	47pF	±20%	0.660	709-1003-1-ND	7.48	44.20	127.50	709-1003-2-ND	4,000	122.00/M	500X14N470MV4T
		50	100pF	±20%	0.660	709-1004-1-ND	7.71	45.57	131.44	709-1004-2-ND	4,000	126.00/M	500X14N101MV4T
	X7R	6.3	.1µF	±20%	0.660	709-1009-1-ND	9.90	58.50	168.75	709-1009-2-ND	4,000	162.00/M	6R3X14W104MV4T
		10	.1µF	±20%	0.660	709-1101-1-ND	10.87	64.21	185.21	709-1101-2-ND	4,000	178.00/M	100X14W104MV4T
		16	47,000pF	±20%	0.660	709-1088-1-ND	9.19	54.28	156.56	709-1088-2-ND	4,000	150.00/M	160X14W471MV4T
		25	22,000pF	±20%	0.660	709-1087-1-ND	8.24	48.69	140.44	709-1087-2-ND	4,000	135.00/M	250X14W223MV4T
		50	470pF	±20%	0.660	709-1085-1-ND	7.02	41.47	119.63	709-1085-2-ND	4,000	115.00/M	500X14W471MV4T
		50	1,000pF	±20%	0.660	709-1005-1-ND	7.02	41.47	119.63	709-1005-2-ND	4,000	115.00/M	500X14W102MV4T
		50	1,500pF	±20%	0.660	709-1006-1-ND	7.02	41.47	119.63	709-1006-2-ND	4,000	115.00/M	500X14W152MV4T
		50	2,200pF	±20%	0.660	709-1086-1-ND	7.48	44.20	127.50	709-1086-2-ND	4,000	122.00/M	500X14W222MV4T
		50	4,700pF	±20%	0.660	709-1007-1-ND	7.25	42.84	123.56	709-1007-2-ND	4,000	119.00/M	500X14W472MV4T
		50	10,000pF	±20%	0.660	709-1008-1-ND	8.65	51.09	147.38	709-1008-2-ND	4,000	141.00/M	500X14W103MV4T
0805	X7R	50	1,000pF	±20%	1.016	709-1010-1-ND	13.64	80.60	232.50	709-1010-2-ND	4,000	223.00/M	500X15W102MV4T
		50	10,000pF	±20%	1.016	709-1011-1-ND	14.63	86.45	249.38	709-1011-2-ND	4,000	239.00/M	500X15W103MV4E
		50	47,000pF	±20%	1.016	709-1012-1-ND	30.47	180.05	519.38	709-1012-2-ND	4,000	499.00/M	500X15W473MV4E
1206	X7R	10	.47µF	±20%	1.270	709-1103-1-ND	20.04	118.42	341.59	709-1103-2-ND	3,000	328.00/M	100X18W474MV4E
		16	.22µF	±20%	1.270	709-1102-1-ND	16.72	98.83	285.08	709-1102-2-ND	3,000	274.00/M	160X18W224MV4E
		50	.1µF	±20%	1.270	709-1013-1-ND	30.47	180.05	519.38	709-1013-2-ND	3,000	499.00/M	500X18W104MV4E
1410	X7R	50	.40µF	±20%	1.778	709-1017-1-ND	55.00	325.00	937.50	709-1017-2-ND	2,000	900.00/M	500X44W404MV4E
1812	X7R	50	.47µF	±20%	2.286	709-1016-1-ND	64.90	383.50	1106.25	709-1016-2-ND	1,000	1062.00	500X43W474MV4E

MLCC Capacitors

High Voltage and TANCERAM®

High Voltage Applications:
- Analog and Digital Modems • Lighting Ballast Circuits • Voltage Multipliers • DC-DC Converters
- LAN/WAN Interface • Back-lighting Inverters

TANCERAM Applications:
- Switching Power Supply Smoothing (Input/Output) • DC/DC Converter Smoothing (Input/Output)
- Backlighting Inverters • General Digital Circuits

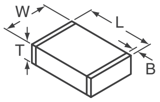

Physical Characteristics — Dimensions in mm			
Series	L	W	B
0402	1.02 ±.10	0.51 ±.10	0.20 ±.10
0603	1.60 ±.20	0.81 ±.20	0.25 ±.13
0805	2.03 ±.25	1.27 ±.25	0.51 ±.25
1206	3.17 ±.25	1.57 ±.25	0.51 ±.25
1210	3.18 ±.25	2.41 ±.25	0.51 ±.25
1808	4.57 ±.25	2.03 ±.25	0.51 ±.25
1812	4.57 ±.25	3.17 ±.25	0.64 ±.38
1825	4.57 ±.25	6.35 ±.25	0.64 ±.38
2225	5.72 ±.25	6.48 ±.38	0.64 ±.38

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Johanson Dielectrics Part No.
							10	100	500		Qty.	Pricing	
High Voltage													
0805	NP0	500	100pF	±10%	1.27	709-1019-1-ND	1.70	10.05	28.99	709-1019-2-ND	4,000	28.00/M	501R15N101KV4T
	X7R	250	22,000pF	±10%	1.27	709-1018-1-ND†	2.04	12.07	34.82	709-1018-2-ND†	3,000	33.00/M	251R15W223KV4E
		500	1,000pF	±10%	1.27	709-1020-1-ND	1.62	9.56	27.56	709-1020-2-ND	3,000	26.00/M	501R15W102KV4E
		500	10,000pF	±10%	1.27	709-1021-1-ND	3.00	17.75	51.19	709-1021-2-ND	3,000	49.00/M	501R15W103KV4E
1206	NP0	500	100pF	±10%	1.27	709-1022-1-ND	1.94	11.48	33.11	709-1022-2-ND	3,000	32.00/M	501R18N101JV4E
		500	220pF	±5%	1.27	709-1023-1-ND	2.47	14.59	42.09	709-1023-2-ND	3,000	40.00/M	501R18N221JV4E
		500	470pF	±5%	1.27	709-1024-1-ND	2.92	17.23	49.69	709-1024-2-ND	3,000	48.00/M	501R18N471JV4E
		2,000	100pF	±5%	1.27	709-1033-1-ND	3.64	21.53	62.10	709-1033-2-ND	3,000	60.00/M	202R18N101JV4E
		2,000	220pF	±5%	1.27	709-1034-1-ND	4.66	27.51	79.35	709-1034-2-ND	3,000	76.00/M	202R18N221JV4E
	X7R	500	1,000pF	±10%	1.27	709-1025-1-ND	1.94	11.48	33.11	709-1025-2-ND	3,000	32.00/M	501R18W102KV4E
		500	4,700pF	±10%	1.27	709-1026-1-ND	2.55	15.07	43.46	709-1026-2-ND	3,000	42.00/M	501R18W472KV4E
		500	10,000pF	±10%	1.27	709-1027-1-ND	3.16	18.66	53.81	709-1027-2-ND	3,000	52.00/M	501R18W103KV4E
		500	22,000pF	±10%	1.27	709-1028-1-ND	3.52	20.81	60.04	709-1028-2-ND	2,000	58.00/M	501R18W223KV4E
		1,000	1,000pF	±10%	1.27	709-1029-1-ND	2.55	15.07	43.46	709-1029-2-ND	3,000	42.00/M	102R18W102KV4E
		1,000	4,700pF	±10%	1.27	709-1031-1-ND	3.97	23.44	67.61	709-1031-2-ND	3,000	65.00/M	102R18W472KV4E
		2,000	470pF	±10%	1.27	709-1035-1-ND	2.55	15.07	43.46	709-1035-2-ND	3,000	42.00/M	202R18W471KV4E
		2,000	1,000pF	±10%	1.27	709-1036-1-ND	3.28	19.38	55.89	709-1036-2-ND	3,000	54.00/M	202R18W102KV4E
1210	NP0	1,000	680pF	±10%	1.65	709-1038-1-ND	7.04	41.59	119.96	709-1038-2-ND	2,000	115.00/M	102S41N681KV4E
	X7R	500	47,000pF	±10%	1.65	709-1037-1-ND	9.59	56.69	163.54	709-1037-2-ND	2,000	157.00/M	501S41W473KV4E
		1,000	10,000pF	±10%	1.65	709-1039-1-ND	8.86	52.38	151.11	709-1039-2-ND	2,000	188.00/M	102S41W103KV4E
		2,000	1,000pF	±10%	1.65	709-1040-1-ND	5.91	34.92	100.74	709-1040-2-ND	2,000	97.00/M	202S41W102KV4E
		2,000	2,700pF	±10%	1.65	709-1041-1-ND	9.80	57.89	166.99	709-1041-2-ND	2,000	160.00/M	202S41W272KV4E
1808	NP0	2,000	470pF	±10%	2.03	709-1043-1-ND	17.26	101.99	294.19	709-1043-2-ND	2,000	282.00/M	202R29N471KV4E
		3,000	330pF	±10%	2.03	709-1044-1-ND	9.64	56.98	164.36	709-1044-2-ND	2,000	158.00/M	302R29N331KV4E
	X7R	2,000	150pF	±10%	2.03	709-1042-1-ND	6.07	35.88	103.50	709-1042-2-ND	2,000	99.00/M	202R29W151KV4E
		2,000	470pF	±10%	2.03	709-1045-1-ND	6.11	36.12	104.19	709-1045-2-ND	2,000	100.00/M	202R29W471KV4E
		2,000	1,000pF	±10%	2.03	709-1046-1-ND	6.19	36.60	105.56	709-1046-2-ND	2,000	101.00/M	202R29W102KV4E
		3,000	1,000pF	±10%	2.03	709-1047-1-ND	7.18	42.45	122.44	709-1047-2-ND	2,000	118.00/M	302R29W102KV4E
1812	X7R	500	.1µF	±10%	2.80	709-1049-1-ND	21.33	126.06	—	709-1049-2-ND	500	174.50	501S43W104KV4E
		500	22,000pF	±10%	2.80	709-1050-1-ND	12.99	76.78	—	709-1050-2-ND	500	106.50	501S43W223KV4E
		1,000	10,000pF	±10%	2.80	709-1057-1-ND	16.39	96.88	—	709-1057-2-ND	1,000	268.00	102S43W103KV4E
		2,000	470pF	±10%	2.80	709-1052-1-ND	10.32	61.00	175.95	709-1052-2-ND	1,000	169.00	202S43W471KV4E
		2,000	1,000pF	±10%	2.80	709-1053-1-ND	10.65	62.91	181.46	709-1053-2-ND	1,000	174.00	202S43W102KV4E
		2,000	3,300pF	±10%	2.80	709-1054-1-ND	13.97	82.52	238.05	709-1054-2-ND	1,000	229.00	202S43W332KV4E
		3,000	150pF	±10%	2.80	709-1051-1-ND	10.32	61.00	175.95	709-1051-2-ND	1,000	169.00	302S43W151KV4E
		3,000	1,000pF	±10%	2.80	709-1055-1-ND	10.85	64.10	184.91	709-1055-2-ND	1,000	178.00	302S43W102KV4E
		3,000	3,300pF	±10%	2.80	709-1056-1-ND	14.30	84.47	—	709-1056-2-ND	500	117.00	302S43W332KV4E
1825	X7R	250	1µF	±10%	3.55	709-1048-1-ND†	90.66	535.73	—	709-1048-2-ND†	500	742.00	251S49W105KV4E
2225	X7R	2,000	10,000pF	±10%	3.81	709-1058-1-ND	69.97	413.48	1192.73	709-1058-2-ND	1,000	1145.00	202S48W103KV4E
		1,000	.1µF	±10%	3.81	709-1059-1-ND	73.42	433.86	—	709-1059-2-ND	500	600.50	102S48W104KV4E
TANCERAM®													
0402	X5R	6.3	1µF	±10%	0.64	709-1060-1-ND	1.82	10.76	31.05	709-1060-2-ND	10,000	30.00/M	6R3R07X105KV4T
0603	X5R	10	.47µF	±10%	0.89	709-1061-1-ND	2.39	14.14	40.80	709-1061-2-ND	4,000	39.00/M	100R14X474KV4T
		10	1µF	±20%	0.89	709-1062-1-ND	2.11	12.48	36.00	709-1062-2-ND	4,000	35.00/M	100R14X105MV4T
0805	X5R	6.3	10µF	±10%	1.27	709-1065-1-ND	9.86	58.24	168.00	709-1065-2-ND	3,000	161.00/M	6R3R15X106KV4E
		6.3	22µF	±10%	1.27	709-1066-1-ND	13.20	78.00	225.00	709-1066-2-ND	3,000	216.00/M	6R3R15X226KV4E
		10	2.2µF	±10%	1.27	709-1063-1-ND	3.52	20.80	60.00	709-1063-2-ND	3,000	58.00/M	100R15X225KV4E
		10	4.7µF	±10%	1.27	709-1064-1-ND	7.04	41.60	120.00	709-1064-2-ND	3,000	115.00/M	100R15X475KV4E
1206	X7R	16	1µF	±10%	1.27	709-1068-1-ND	3.34	19.76	57.00	709-1068-2-ND	3,000	55.00/M	160R18W105KV4E
		16	2.2µF	±10%	1.27	709-1070-1-ND	5.28	31.20	90.00	709-1070-2-ND	3,000	86.00/M	160R18W225KV4E
		25	.33µF	±10%	1.27	709-1067-1-ND	3.24	19.14	55.20	709-1067-2-ND	3,000	53.00/M	250R18W334KV4E
		25	1µF	±10%	1.27	709-1069-1-ND	4.66	27.56	79.50	709-1069-2-ND	2,000	76.00/M	250R18W105KV4E

† Tip and Ring Chip

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

MLCC Capacitors
High Voltage and TANCERAM® *(Cont.)*

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Johanson Dielectrics Part No.
1206	X5R	6.3	10µF	±10%	1.27	709-1074-1-ND	6.25	36.92	106.50	709-1074-2-ND	2,000	102.00/M	6R3R18X106KV4E
		10	3.3µF	±10%	1.27	709-1071-1-ND	8.36	49.40	142.50	709-1071-2-ND	2,000	137.00/M	100R18X335KV4E
		10	4.7µF	±10%	1.27	709-1072-1-ND	6.52	38.53	111.15	709-1072-2-ND	2,000	107.00/M	100R18X475KV4E
		16	4.7µF	±20%	1.27	709-1073-1-ND	7.56	44.66	128.81	709-1073-2-ND	2,000	124.00/M	160R18X475MV4E
1210	X5R	6.3	22µF	±20%	1.65	709-1078-1-ND	29.91	176.73	—	709-1078-2-ND	500	244.50	6R3S41X226MV4E
		6.3	100µF	±20%	1.65	709-1079-1-ND	112.15	662.73	1911.73	709-1079-2-ND	2,000	1835.00/M	6R3S41X107MV4E
		16	10µF	±10%	1.65	709-1076-1-ND	17.11	101.08	291.56	709-1076-2-ND	2,000	280.00/M	160S41X106KV4E
		25	4.7µF	±10%	1.65	709-1075-1-ND	12.59	74.41	214.65	709-1075-2-ND	2,000	206.00/M	250S41X475KV4E
		25	10µF	±10%	1.65	709-1077-1-ND	18.89	111.62	321.98	709-1077-2-ND	2,000	309.00/M	250S41X106KV4E
	Y5V	10	22µF	+80~20%	1.65	709-1082-1-ND	14.69	86.81	250.43	709-1082-2-ND	2,000	240.00/M	100S41Y226ZV4E
1812	X5R	6.3	100µF	±20%	2.80	709-1084-1-ND	125.93	744.12	—	709-1084-2-ND	500	1030.50	6R3S43X107MV4E
		16	22µF	±20%	2.80	709-1083-1-ND	47.22	279.05	—	709-1083-2-ND	500	386.50	160S43X226MV4E

† Tip and Ring Chip

Safety Certified Capacitors – Type SC

Johanson Dielectrics Type SC ceramic chip capacitors are designed for AC voltage surge and lightning protection in line-to-ground interface applications in computer network, modem, facsimile and other equipment.

Johanson's safety capacitor offering includes four different case sizes and NP0 and X7R dielectric materials. These devices have barrier terminations and are surface mount ready.

Safety Rating Information:

- **X Capacitors:** Suitable for use in situations when failure of the capacitor would not lead to danger of electric shock
- **Y Capacitors:** Suitable for use in situations when failure of the capacitor could lead to danger of electric shock

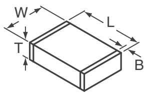

Series	Physical Characteristics — Dimensions - mm Safety Rating	L	W	B
1808	X2/Y3	4.57 ±0.25	2.03 ±0.25	0.51 ±0.25
	X1/Y2	4.80 ±0.25	2.03 ±0.25	0.30 ±0.13
2211	Y2	5.72 ±0.40	2.80 ±0.25	0.51 ±0.25
2220	X1/Y2	5.72 ±0.25	5.08 ±0.25	0.64 ±0.38

Size Code	Type	Impulse Voltage (V)	Safety Rating	WV AC	Capacitance	Capacitance Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Johanson Dielectrics Part No.
1808	NP0	3,000	X2/Y3	250	10pF	±5%	2.16	709-1089-1-ND	6.99	41.28	119.06	709-1089-2-ND	2,000	114.00/M	302R29N100JV4E-****-SC
					150pF	±10%	2.16	709-1090-1-ND	7.48	44.19	127.46	709-1090-2-ND	2,000	122.00/M	302R29N151KV4E-****-SC
					470pF	±10%	2.16	709-1095-1-ND	16.82	99.40	286.74	709-1095-2-ND	2,000	275.00/M	302R29N471KV4E-****-SC
	X7R	3,000	X2/Y3	250	470pF	±10%	2.16	709-1091-1-ND	9.68	57.22	165.06	709-1091-2-ND	2,000	158.00/M	302R29W471KV4E-****-SC
					680pF	±10%	2.16	709-1093-1-ND	9.38	55.45	159.94	709-1093-2-ND	2,000	154.00/M	302R29W681KV4E-****-SC
					1,000pF	±10%	2.16	709-1094-1-ND	9.38	55.45	159.94	709-1094-2-ND	2,000	154.00/M	302R29W102KV4E-****-SC
	X7R	5,000	X1/Y2	250	680pF	±10%	2.16	709-1092-1-ND	18.37	108.55	313.13	709-1092-2-ND	2,000	301.00/M	502R29W681KV4E-****-SC
2211	NP0	5,000	Y2	250	33pF	±5%	2.16	709-1096-1-ND	13.50	79.77	230.12	709-1096-2-ND	2,000	221.00/M	502R30N330JV4E-****-SC
	X7R	5,000	Y2	250	680pF	±10%	2.16	709-1097-1-ND	15.08	89.08	256.97	709-1097-2-ND	2,000	247.00/M	502R30W681KV4E-****-SC
					1,000pF	±10%	2.16	709-1098-1-ND	21.24	125.53	362.10	709-1098-2-ND	2,000	348.00/M	502R30W102KV4E-****-SC
2220	X7R	5,000	X1/Y2	250	2,200pF	±10%	2.80	709-1099-1-ND	78.99	466.75	—	709-1099-2-ND	500	646.50	502S47W222KV4E-****-SC
					4,700pF	±10%	2.80	709-1100-1-ND	107.80	637.00	1837.50	709-1100-2-ND	1,000	1764.00	502S47W472KV4E-****-SC

NEW! Multi-Layer High-Q Capacitors

These lines of multi-layer capacitors have been developed for High-Q and microwave applications. **S Series:** R05S, R07S, R14S and R15S capacitors give an ultra-high Q performance and exhibit NPO temperature characteristics. **L Series:** R05L capacitors give mid-high Q performance and exhibit NPO temperature characteristics.

Temperature Coefficient: 0 ± 30ppm/°C, -55°C ~ 125°C

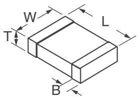

Mechanical Characteristics — Dimensions in mm Size Code	L	W	B
R05 (0201)	0.60 ±0.03	0.30 ±0.03	0.20 Max.
R07 (0402)	1.02 ±0.1	0.51 ±0.1	0.25 ±0.15
R14 (0603)	1.57 ±0.15	0.81 ±0.15	0.35 ±0.15
R15 (0805)	2.03 ±0.20	1.27 ±0.20	0.50 ±0.25

Size Code	Type	WV DC	Capacitance (pF)	Capacitance Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Johanson Technology Part No.
0201	NPO	25	0.2	+/-0.05pF	0.30 ±0.03	712-1173-1-ND	1.43	8.45	24.38	712-1173-2-ND	15,000	23.00/M	250R05L0R2AV4T
			0.3	+/-0.05pF	0.30 ±0.03	712-1174-1-ND	1.43	8.45	24.38	712-1174-2-ND	15,000	23.00/M	250R05L0R3AV4T
			0.4	+/-0.05pF	0.30 ±0.03	712-1175-1-ND	1.43	8.45	24.38	712-1175-2-ND	15,000	23.00/M	250R05L0R4AV4T
			0.5	+/-0.05pF	0.30 ±0.03	712-1176-1-ND	1.43	8.45	24.38	712-1176-2-ND	15,000	23.00/M	250R05L0R5AV4T
			0.6	+/-0.05pF	0.30 ±0.03	712-1177-1-ND	1.87	11.05	31.88	712-1177-2-ND	15,000	31.00/M	250R05L0R6AV4T
			0.7	+/-0.05pF	0.30 ±0.03	712-1178-1-ND	1.87	11.05	31.88	712-1178-2-ND	15,000	31.00/M	250R05L0R7AV4T
			0.8	±0.10pF	0.30 ±0.03	712-1179-1-ND	1.43	8.45	24.38	712-1179-2-ND	15,000	23.00/M	250R05L0R8BV4T
			0.9	±0.10pF	0.30 ±0.03	712-1180-1-ND	1.43	8.45	24.38	712-1180-2-ND	15,000	23.00/M	250R05L0R9BV4T
			1.0	±0.10pF	0.30 ±0.03	712-1181-1-ND	1.43	8.45	24.38	712-1181-2-ND	15,000	23.00/M	250R05L1R0BV4T
			1.1	±0.10pF	0.30 ±0.03	712-1182-1-ND	1.43	8.45	24.38	712-1182-2-ND	15,000	23.00/M	250R05L1R1BV4T
			1.2	±0.10pF	0.30 ±0.03	712-1183-1-ND	1.43	8.45	24.38	712-1183-2-ND	15,000	23.00/M	250R05L1R2BV4T
			1.3	±0.10pF	0.30 ±0.03	712-1184-1-ND	1.43	8.45	24.38	712-1184-2-ND	15,000	23.00/M	250R05L1R3BV4T
			1.5	±0.10pF	0.30 ±0.03	712-1185-1-ND	1.43	8.45	24.38	712-1185-2-ND	15,000	23.00/M	250R05L1R5BV4T
			1.8	±0.10pF	0.30 ±0.03	712-1186-1-ND	1.43	8.45	24.38	712-1186-2-ND	15,000	23.00/M	250R05L1R8BV4T
			2.0	±0.10pF	0.30 ±0.03	712-1187-1-ND	1.76	10.40	30.00	712-1187-2-ND	15,000	29.00/M	250R05L2R0BV4T
			2.2	±0.10pF	0.30 ±0.03	712-1188-1-ND	1.76	10.40	30.00	712-1188-2-ND	15,000	29.00/M	250R05L2R2BV4T
			2.4	±0.10pF	0.30 ±0.03	712-1189-1-ND	1.76	10.40	30.00	712-1189-2-ND	15,000	29.00/M	250R05L2R4BV4T
			2.7	±0.10pF	0.30 ±0.03	712-1190-1-ND	1.76	10.40	30.00	712-1190-2-ND	15,000	29.00/M	250R05L2R7BV4T
			3.0	±0.10pF	0.30 ±0.03	712-1191-1-ND	1.76	10.40	30.00	712-1191-2-ND	15,000	29.00/M	250R05L3R0BV4T
			3.3	±0.10pF	0.30 ±0.03	712-1192-1-ND	1.76	10.40	30.00	712-1192-2-ND	15,000	29.00/M	250R05L3R3BV4T
			3.6	±0.25pF	0.30 ±0.03	712-1193-1-ND	1.43	8.45	24.38	712-1193-2-ND	15,000	23.00/M	250R05L3R6CV4T
			3.9	±0.25pF	0.30 ±0.03	712-1194-1-ND	1.43	8.45	24.38	712-1194-2-ND	15,000	23.00/M	250R05L3R9CV4T
			4.3	±0.25pF	0.30 ±0.03	712-1195-1-ND	1.43	8.45	24.38	712-1195-2-ND	15,000	23.00/M	250R05L4R3CV4T
			4.7	±0.25pF	0.30 ±0.03	712-1196-1-ND	1.43	8.45	24.38	712-1196-2-ND	15,000	23.00/M	250R05L4R7CV4T
			5.1	±0.25pF	0.30 ±0.03	712-1197-1-ND	1.43	8.45	24.38	712-1197-2-ND	15,000	23.00/M	250R05L5R1CV4T
			5.6	±0.25pF	0.30 ±0.03	712-1198-1-ND	1.43	8.45	24.38	712-1198-2-ND	15,000	23.00/M	250R05L5R6CV4T
			6.2	±0.25pF	0.30 ±0.03	712-1199-1-ND	1.43	8.45	24.38	712-1199-2-ND	15,000	23.00/M	250R05L6R2CV4T
			6.8	±0.25pF	0.30 ±0.03	712-1200-1-ND	1.43	8.45	24.38	712-1200-2-ND	15,000	23.00/M	250R05L6R8CV4T
			7.5	±0.25pF	0.30 ±0.03	712-1201-1-ND	1.43	8.45	24.38	712-1201-2-ND	15,000	23.00/M	250R05L7R5CV4T
			8.2	±0.25pF	0.30 ±0.03	712-1202-1-ND	1.43	8.45	24.38	712-1202-2-ND	15,000	23.00/M	250R05L8R2CV4T
			9.1	±0.25pF	0.30 ±0.03	712-1203-1-ND	1.43	8.45	24.38	712-1203-2-ND	15,000	23.00/M	250R05L9R1CV4T
			10	±2%	0.30 ±0.03	712-1204-1-ND	1.76	10.40	30.00	712-1204-2-ND	15,000	29.00/M	250R05L100GV4T
			10	±5%	0.30 ±0.03	712-1205-1-ND	.88	5.20	15.00	712-1205-2-ND	15,000	14.00/M	250R05L100JV4T
			11	±2%	0.30 ±0.03	712-1206-1-ND	1.76	10.40	30.00	712-1206-2-ND	15,000	29.00/M	250R05L110GV4T
			11	±5%	0.30 ±0.03	712-1207-1-ND	.88	5.20	15.00	712-1207-2-ND	15,000	14.00/M	250R05L110JV4T
			12	±2%	0.30 ±0.03	712-1208-1-ND	1.76	10.40	30.00	712-1208-2-ND	15,000	29.00/M	250R05L120GV4T
			12	±5%	0.30 ±0.03	712-1209-1-ND	.88	5.20	15.00	712-1209-2-ND	15,000	14.00/M	250R05L120JV4T
			13	±2%	0.30 ±0.03	712-1210-1-ND	1.76	10.40	30.00	712-1210-2-ND	15,000	29.00/M	250R05L130GV4T
			13	±5%	0.30 ±0.03	712-1211-1-ND	.88	5.20	15.00	712-1211-2-ND	15,000	14.00/M	250R05L130JV4T
			15	±2%	0.30 ±0.03	712-1212-1-ND	1.76	10.40	30.00	712-1212-2-ND	15,000	29.00/M	250R05L150GV4T
			15	±5%	0.30 ±0.03	712-1213-1-ND	.88	5.20	15.00	712-1213-2-ND	15,000	14.00/M	250R05L150JV4T

(Continued)

NEW! Multi-Layer High-Q Capacitors *(Cont.)*

Size Code	Type	WV DC	Capac-itance (pF)	Capac-itance Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
							10	100	500		Qty.	Pricing	
0201	NPO	25	16	±2%	0.30 ±0.03	712-1214-1-ND	1.76	10.40	30.00	712-1214-2-ND	15,000	29.00/M	250R05L160GV4T
			16	±5%	0.30 ±0.03	712-1215-1-ND	.88	5.20	15.00	712-1215-2-ND	15,000	14.00/M	250R05L160JV4T
			18	±2%	0.30 ±0.03	712-1216-1-ND	1.76	10.40	30.00	712-1216-2-ND	15,000	29.00/M	250R05L180GV4T
			18	±5%	0.30 ±0.03	712-1217-1-ND	.88	5.20	15.00	712-1217-2-ND	15,000	14.00/M	250R05L180JV4T
			20	±2%	0.30 ±0.03	712-1218-1-ND	1.76	10.40	30.00	712-1218-2-ND	15,000	29.00/M	250R05L200GV4T
			20	±5%	0.30 ±0.03	712-1219-1-ND	.88	5.20	15.00	712-1219-2-ND	15,000	14.00/M	250R05L200JV4T
			22	±2%	0.30 ±0.03	712-1220-1-ND	1.76	10.40	30.00	712-1220-2-ND	15,000	29.00/M	250R05L220GV4T
			22	±5%	0.30 ±0.03	712-1221-1-ND	.88	5.20	15.00	712-1221-2-ND	15,000	14.00/M	250R05L220JV4T
			27	±2%	0.30 ±0.03	712-1222-1-ND	1.76	10.40	30.00	712-1222-2-ND	15,000	29.00/M	250R05L270GV4T
			27	±5%	0.30 ±0.03	712-1223-1-ND	.88	5.20	15.00	712-1223-2-ND	15,000	14.00/M	250R05L270JV4T
			30	±2%	0.30 ±0.03	712-1224-1-ND	1.76	10.40	30.00	712-1224-2-ND	15,000	29.00/M	250R05L300GV4T
			30	±5%	0.30 ±0.03	712-1225-1-ND	.88	5.20	15.00	712-1225-2-ND	15,000	14.00/M	250R05L300JV4T
			33	±2%	0.30 ±0.03	712-1226-1-ND	1.76	10.40	30.00	712-1226-2-ND	15,000	29.00/M	250R05L330GV4T
			33	±5%	0.30 ±0.03	712-1227-1-ND	.88	5.20	15.00	712-1227-2-ND	15,000	14.00/M	250R05L330JV4T
			36	±2%	0.30 ±0.03	712-1228-1-ND	1.76	10.40	30.00	712-1228-2-ND	15,000	29.00/M	250R05L360GV4T
			36	±5%	0.30 ±0.03	712-1229-1-ND	.88	5.20	15.00	712-1229-2-ND	15,000	14.00/M	250R05L360JV4T
			39	±2%	0.30 ±0.03	712-1230-1-ND	1.76	10.40	30.00	712-1230-2-ND	15,000	29.00/M	250R05L390GV4T
			39	±5%	0.30 ±0.03	712-1231-1-ND	.88	5.20	15.00	712-1231-2-ND	15,000	14.00/M	250R05L390JV4T
			43	±2%	0.30 ±0.03	712-1232-1-ND	2.09	12.35	35.63	712-1232-2-ND	15,000	34.00/M	250R05L430GV4T
			43	±5%	0.30 ±0.03	712-1233-1-ND	.99	5.85	16.88	712-1233-2-ND	15,000	16.00/M	250R05L430JV4T
			47	±2%	0.30 ±0.03	712-1234-1-ND	2.09	12.35	35.63	712-1234-2-ND	15,000	34.00/M	250R05L470GV4T
			47	±5%	0.30 ±0.03	712-1235-1-ND	.99	5.85	16.88	712-1235-2-ND	15,000	16.00/M	250R05L470JV4T
			56	±2%	0.30 ±0.03	712-1236-1-ND	2.09	12.35	35.63	712-1236-2-ND	15,000	34.00/M	250R05L560GV4T
			56	±5%	0.30 ±0.03	712-1237-1-ND	.99	5.85	16.88	712-1237-2-ND	15,000	16.00/M	250R05L560JV4T
			68	±2%	0.30 ±0.03	712-1238-1-ND	2.09	12.35	35.63	712-1238-2-ND	15,000	34.00/M	250R05L680GV4T
			68	±5%	0.30 ±0.03	712-1239-1-ND	.99	5.85	16.88	712-1239-2-ND	15,000	16.00/M	250R05L680JV4T
			82	±2%	0.30 ±0.03	712-1240-1-ND	2.09	12.35	35.63	712-1240-2-ND	15,000	34.00/M	250R05L820GV4T
			82	±5%	0.30 ±0.03	712-1241-1-ND	.99	5.85	16.88	712-1241-2-ND	15,000	16.00/M	250R05L820JV4T
			100	±2%	0.30 ±0.03	712-1242-1-ND	2.09	12.35	35.63	712-1242-2-ND	15,000	34.00/M	250R05L101GV4T
			100	±5%	0.30 ±0.03	712-1243-1-ND	.99	5.85	16.88	712-1243-2-ND	15,000	16.00/M	250R05L101JV4T
0402	NPO (S Dielectric)	25	30	±2%	0.51 ±0.1	712-1295-1-ND	3.85	22.75	65.63	712-1295-2-ND	10,000	63.00/M	250R07S300GV4T
			30	±5%	0.51 ±0.1	712-1296-1-ND†	1.54	9.10	26.25	712-1296-2-ND	10,000	25.00/M	250R07S300JV4T
			33	±2%	0.51 ±0.1	712-1297-1-ND	3.85	22.75	65.63	712-1297-2-ND	10,000	63.00/M	250R07S330GV4T
			33	±5%	0.51 ±0.1	712-1298-1-ND	1.54	9.10	26.25	712-1298-2-ND	10,000	25.00/M	250R07S330JV4T
		50	0.2	+/-0.05pF	0.51 ±0.1	712-1244-1-ND	1.43	8.45	24.38	712-1244-2-ND	10,000	23.00/M	500R07S0R2AV4T
			0.2	±0.10pF	0.51 ±0.1	712-1160-1-ND†	1.21	7.15	20.63	712-1160-2-ND	10,000	20.00/M	500R07S0R2BV4T
			0.3	+/-0.05pF	0.51 ±0.1	712-1245-1-ND	1.43	8.45	24.38	712-1245-2-ND	10,000	23.00/M	500R07S0R3AV4T
			0.3	±0.10pF	0.51 ±0.1	712-1161-1-ND†	1.21	7.15	20.63	712-1161-2-ND	10,000	20.00/M	500R07S0R3BV4T
			0.4	+/-0.05pF	0.51 ±0.1	712-1246-1-ND	1.43	8.45	24.38	712-1246-2-ND	10,000	23.00/M	500R07S0R4AV4T
			0.5	+/-0.05pF	0.51 ±0.1	712-1247-1-ND	1.43	8.45	24.38	712-1247-2-ND	10,000	23.00/M	500R07S0R5AV4T
			0.5	±0.10pF	0.51 ±0.1	712-1162-1-ND†	1.21	7.15	20.63	712-1162-2-ND	10,000	20.00/M	500R07S0R5BV4T
			0.6	+/-0.05pF	0.51 ±0.1	712-1248-1-ND	2.09	12.35	35.63	712-1248-2-ND	10,000	34.00/M	500R07S0R6AV4T
			0.7	+/-0.05pF	0.51 ±0.1	712-1249-1-ND	2.09	12.35	35.63	712-1249-2-ND	10,000	34.00/M	500R07S0R7AV4T
			0.7	±0.10pF	0.51 ±0.1	712-1163-1-ND†	1.21	7.15	20.63	712-1163-2-ND	10,000	20.00/M	500R07S0R7BV4T
			0.8	±0.10pF	0.51 ±0.1	712-1250-1-ND	1.43	8.45	24.38	712-1250-2-ND	10,000	23.00/M	500R07S0R8BV4T
			0.9	±0.10pF	0.51 ±0.1	712-1251-1-ND†	1.43	8.45	24.38	712-1251-2-ND	10,000	23.00/M	500R07S0R9BV4T
			1.0	±0.10pF	0.51 ±0.1	712-1266-1-ND†	1.43	8.45	24.38	712-1266-2-ND	10,000	23.00/M	500R07S1R0BV4T
			1.1	±0.10pF	0.51 ±0.1	712-1267-1-ND	1.43	8.45	24.38	712-1267-2-ND	10,000	23.00/M	500R07S1R1BV4T
			1.2	±0.10pF	0.51 ±0.1	712-1268-1-ND†	1.43	8.45	24.38	712-1268-2-ND	10,000	23.00/M	500R07S1R2BV4T
			1.3	±0.10pF	0.51 ±0.1	712-1269-1-ND	1.43	8.45	24.38	712-1269-2-ND	10,000	23.00/M	500R07S1R3BV4T
			1.5	±0.10pF	0.51 ±0.1	712-1270-1-ND†	1.43	8.45	24.38	712-1270-2-ND	10,000	23.00/M	500R07S1R5BV4T
			1.8	±0.10pF	0.51 ±0.1	712-1271-1-ND†	1.43	8.45	24.38	712-1271-2-ND	10,000	23.00/M	500R07S1R8BV4T
			2.0	±0.10pF	0.51 ±0.1	712-1278-1-ND†	2.09	12.35	35.63	712-1278-2-ND	10,000	34.00/M	500R07S2R0BV4T
			2.2	±0.10pF	0.51 ±0.1	712-1279-1-ND†	2.09	12.35	35.63	712-1279-2-ND	10,000	34.00/M	500R07S2R2BV4T
			2.4	±0.10pF	0.51 ±0.1	712-1280-1-ND†	2.09	12.35	35.63	712-1280-2-ND	10,000	34.00/M	500R07S2R4BV4T
			2.7	±0.10pF	0.51 ±0.1	712-1281-1-ND†	2.09	12.35	35.63	712-1281-2-ND	10,000	34.00/M	500R07S2R7BV4T
			3.0	±0.10pF	0.51 ±0.1	712-1282-1-ND†	2.09	12.35	35.63	712-1282-2-ND	10,000	34.00/M	500R07S3R0BV4T
			3.3	±0.10pF	0.51 ±0.1	712-1283-1-ND	2.09	12.35	35.63	712-1283-2-ND	10,000	34.00/M	500R07S3R3BV4T
			3.6	±0.10pF	0.51 ±0.1	712-1164-1-ND†	2.31	13.65	39.38	712-1164-2-ND	10,000	38.00/M	500R07S3R6BV4T
			3.6	±0.25pF	0.51 ±0.1	712-1284-1-ND	1.43	8.45	24.38	712-1284-2-ND	10,000	23.00/M	500R07S3R6CV4T
			3.9	±0.25pF	0.51 ±0.1	712-1285-1-ND	1.43	8.45	24.38	712-1285-2-ND	10,000	23.00/M	500R07S3R9CV4T
			4.3	±0.10pF	0.51 ±0.1	712-1165-1-ND†	2.31	13.65	39.38	712-1165-2-ND	10,000	38.00/M	500R07S4R3BV4T
			4.3	±0.25pF	0.51 ±0.1	712-1286-1-ND	1.43	8.45	24.38	712-1286-2-ND	10,000	23.00/M	500R07S4R3CV4T
			4.7	±0.10pF	0.51 ±0.1	712-1166-1-ND†	2.31	13.65	39.38	712-1166-2-ND	10,000	38.00/M	500R07S4R7BV4T
			4.7	±0.25pF	0.51 ±0.1	712-1287-1-ND	1.43	8.45	24.38	712-1287-2-ND	10,000	23.00/M	500R07S4R7CV4T
			5.1	±0.25pF	0.51 ±0.1	712-1288-1-ND	1.54	9.10	26.25	712-1288-2-ND	10,000	25.00/M	500R07S5R1CV4T
			5.6	±0.25pF	0.51 ±0.1	712-1289-1-ND†	1.54	9.10	26.25	712-1289-2-ND	10,000	25.00/M	500R07S5R6CV4T
			6.2	±0.25pF	0.51 ±0.1	712-1290-1-ND	1.54	9.10	26.25	712-1290-2-ND	10,000	25.00/M	500R07S6R2CV4T
			6.8	±0.25pF	0.51 ±0.1	712-1291-1-ND†	1.54	9.10	26.25	712-1291-2-ND	10,000	25.00/M	500R07S6R8CV4T
			7.5	±0.25pF	0.51 ±0.1	712-1292-1-ND†	1.54	9.10	26.25	712-1292-2-ND	10,000	25.00/M	500R07S7R5CV4T
			8.2	±0.25pF	0.51 ±0.1	712-1293-1-ND†	1.54	9.10	26.25	712-1293-2-ND	10,000	25.00/M	500R07S8R2CV4T
			9.1	±0.25pF	0.51 ±0.1	712-1294-1-ND†	1.54	9.10	26.25	712-1294-2-ND	10,000	25.00/M	500R07S9R1CV4T
			10	±2%	0.51 ±0.1	712-1252-1-ND	3.85	22.75	65.63	712-1252-2-ND	10,000	63.00/M	500R07S100GV4T
			10	±5%	0.51 ±0.1	712-1253-1-ND†	1.54	9.10	26.25	712-1253-2-ND	10,000	25.00/M	500R07S100JV4T
			11	±2%	0.51 ±0.1	712-1254-1-ND	3.85	22.75	65.63	712-1254-2-ND	10,000	63.00/M	500R07S110GV4T
			11	±5%	0.51 ±0.1	712-1255-1-ND	1.54	9.10	26.25	712-1255-2-ND	10,000	25.00/M	500R07S110JV4T
			12	±2%	0.51 ±0.1	712-1256-1-ND	3.85	22.75	65.63	712-1256-2-ND	10,000	63.00/M	500R07S120GV4T
			12	±5%	0.51 ±0.1	712-1257-1-ND†	1.54	9.10	26.25	712-1257-2-ND	10,000	25.00/M	500R07S120JV4T
			13	±2%	0.51 ±0.1	712-1258-1-ND	3.85	22.75	65.63	712-1258-2-ND	10,000	63.00/M	500R07S130GV4T
			13	±5%	0.51 ±0.1	712-1259-1-ND	1.54	9.10	26.25	712-1259-2-ND	10,000	25.00/M	500R07S130JV4T
			15	±2%	0.51 ±0.1	712-1260-1-ND	3.85	22.75	65.63	712-1260-2-ND	10,000	63.00/M	500R07S150GV4T
			15	±5%	0.51 ±0.1	712-1261-1-ND†	1.54	9.10	26.25	712-1261-2-ND	10,000	25.00/M	500R07S150JV4T
			16	±2%	0.51 ±0.1	712-1262-1-ND	3.85	22.75	65.63	712-1262-2-ND	10,000	63.00/M	500R07S160GV4T
			16	±5%	0.51 ±0.1	712-1263-1-ND	1.54	9.10	26.25	712-1263-2-ND	10,000	25.00/M	500R07S160JV4T
			18	±2%	0.51 ±0.1	712-1264-1-ND	3.85	22.75	65.63	712-1264-2-ND	10,000	63.00/M	500R07S180GV4T
			18	±5%	0.51 ±0.1	712-1265-1-ND	1.54	9.10	26.25	712-1265-2-ND	10,000	25.00/M	500R07S180JV4T
			20	±2%	0.51 ±0.1	712-1272-1-ND	3.85	22.75	65.63	712-1272-2-ND	10,000	63.00/M	500R07S200GV4T
			20	±5%	0.51 ±0.1	712-1273-1-ND	1.54	9.10	26.25	712-1273-2-ND	10,000	25.00/M	500R07S200JV4T
			22	±2%	0.51 ±0.1	712-1274-1-ND	3.85	22.75	65.63	712-1274-2-ND	10,000	63.00/M	500R07S220GV4T
			22	±5%	0.51 ±0.1	712-1275-1-ND†	1.54	9.10	26.25	712-1275-2-ND	10,000	25.00/M	500R07S220JV4T
			27	±2%	0.51 ±0.1	712-1276-1-ND	3.85	22.75	65.63	712-1276-2-ND	10,000	63.00/M	500R07S270GV4T
			27	±5%	0.51 ±0.1	712-1277-1-ND†	1.54	9.10	26.25	712-1277-2-ND	10,000	25.00/M	500R07S270JV4T
0603	NPO (S Dielectric)	250	0.2	+/-0.05pF	0.81	712-1299-1-ND	4.40	26.00	75.00	712-1299-2-ND	4,000	72.00/M	251R14S0R2AV4T
			0.3	+/-0.05pF	0.81	712-1300-1-ND	4.40	26.00	75.00	712-1300-2-ND	4,000	72.00/M	251R14S0R3AV4T
			0.3	±0.10pF	0.81	712-1167-1-ND‡	2.42	14.30	41.25	712-1167-2-ND	4,000	40.00/M	251R14S0R3BV4T
			0.4	+/-0.05pF	0.81	712-1301-1-ND	4.40	26.00	75.00	712-1301-2-ND	4,000	72.00/M	251R14S0R4AV4T
			0.5	+/-0.05pF	0.81	712-1302-1-ND	4.40	26.00	75.00	712-1302-2-ND	4,000	72.00/M	251R14S0R5AV4T
			0.5	±0.10pF	0.81	712-1168-1-ND‡	2.42	14.30	41.25	712-1168-2-ND	4,000	40.00/M	251R14S0R5BV4T
			0.6	+/-0.05pF	0.81	712-1303-1-ND	4.40	26.00	75.00	712-1303-2-ND	4,000	72.00/M	251R14S0R6AV4T
			0.7	+/-0.05pF	0.81	712-1304-1-ND	4.40	26.00	75.00	712-1304-2-ND	4,000	72.00/M	251R14S0R7AV4T
			0.8	±0.10pF	0.81	712-1305-1-ND‡	2.42	14.30	41.25	712-1305-2-ND	4,000	40.00/M	251R14S0R8BV4T
			0.9	±0.10pF	0.81	712-1306-1-ND	2.42	14.30	41.25	712-1306-2-ND	4,000	40.00/M	251R14S0R9BV4T

(Continued)

NEW! Multi-Layer High-Q Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance (pF)	Capacitance Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Johanson Technology Part No.
							10	100	500		Qty.	Pricing	
0603	NPO (S Dielectric)	250	1.0	±0.10pF	0.81	712-1323-1-ND‡	2.42	14.30	41.25	712-1323-2-ND	4,000	40.00/M	251R14S1R0BV4T
			1.1	±0.10pF	0.81	712-1324-1-ND	2.42	14.30	41.25	712-1324-2-ND	4,000	40.00/M	251R14S1R1BV4T
			1.2	±0.10pF	0.81	712-1325-1-ND‡	2.42	14.30	41.25	712-1325-2-ND	4,000	40.00/M	251R14S1R2BV4T
			1.3	±0.10pF	0.81	712-1326-1-ND	2.42	14.30	41.25	712-1326-2-ND	4,000	40.00/M	251R14S1R3BV4T
			1.5	±0.10pF	0.81	712-1327-1-ND‡	2.42	14.30	41.25	712-1327-2-ND	4,000	40.00/M	251R14S1R5BV4T
			1.8	±0.10pF	0.81	712-1328-1-ND‡	2.42	14.30	41.25	712-1328-2-ND	4,000	40.00/M	251R14S1R8BV4T
			2.0	±0.10pF	0.81	712-1335-1-ND	2.42	14.30	41.25	712-1335-2-ND	4,000	40.00/M	251R14S2R0BV4T
			2.2	±0.10pF	0.81	712-1336-1-ND‡	3.19	18.85	54.38	712-1336-2-ND	4,000	52.00/M	251R14S2R2BV4T
			2.4	±0.10pF	0.81	712-1337-1-ND	3.19	18.85	54.38	712-1337-2-ND	4,000	52.00/M	251R14S2R4BV4T
			2.7	±0.10pF	0.81	712-1338-1-ND‡	3.19	18.85	54.38	712-1338-2-ND	4,000	52.00/M	251R14S2R7BV4T
			3.0	±0.10pF	0.81	712-1347-1-ND	3.19	18.85	54.38	712-1347-2-ND	4,000	52.00/M	251R14S3R0BV4T
			3.3	±0.10pF	0.81	712-1348-1-ND‡	3.19	18.85	54.38	712-1348-2-ND	4,000	52.00/M	251R14S3R3BV4T
			3.6	±0.10pF	0.81	712-1170-1-ND‡	3.19	18.85	54.38	712-1170-2-ND	4,000	52.00/M	251R14S3R6BV4T
			3.6	±0.25pF	0.81	712-1349-1-ND	3.19	18.85	54.38	712-1349-2-ND	4,000	52.00/M	251R14S3R6CV4T
			3.9	±0.10pF	0.81	712-1171-1-ND‡	3.19	18.85	54.38	712-1171-2-ND	4,000	52.00/M	251R14S3R9BV4T
			3.9	±0.25pF	0.81	712-1350-1-ND	3.19	18.85	54.38	712-1350-2-ND	4,000	52.00/M	251R14S3R9CV4T
			4.3	±0.25pF	0.81	712-1355-1-ND	3.19	18.85	54.38	712-1355-2-ND	4,000	52.00/M	251R14S4R3CV4T
			4.7	±0.10pF	0.81	712-1172-1-ND‡	3.19	18.85	54.38	712-1172-2-ND	4,000	52.00/M	251R14S4R7BV4T
			4.7	±0.25pF	0.81	712-1356-1-ND	3.19	18.85	54.38	712-1356-2-ND	4,000	52.00/M	251R14S4R7CV4T
			5.1	±0.25pF	0.81	712-1359-1-ND	3.19	18.85	54.38	712-1359-2-ND	4,000	52.00/M	251R14S5R1CV4T
			5.6	±0.25pF	0.81	712-1360-1-ND‡	3.19	18.85	54.38	712-1360-2-ND	4,000	52.00/M	251R14S5R6CV4T
			6.2	±0.25pF	0.81	712-1363-1-ND	3.19	18.85	54.38	712-1363-2-ND	4,000	52.00/M	251R14S6R2CV4T
			6.8	±0.25pF	0.81	712-1364-1-ND‡	3.19	18.85	54.38	712-1364-2-ND	4,000	52.00/M	251R14S6R8CV4T
			7.5	±0.25pF	0.81	712-1365-1-ND	3.19	18.85	54.38	712-1365-2-ND	4,000	52.00/M	251R14S7R5CV4T
			8.2	±0.25pF	0.81	712-1368-1-ND‡	3.19	18.85	54.38	712-1368-2-ND	4,000	52.00/M	251R14S8R2CV4T
			9.1	±0.25pF	0.81	712-1369-1-ND	3.19	18.85	54.38	712-1369-2-ND	4,000	52.00/M	251R14S9R1CV4T
			10	±2%	0.81	712-1307-1-ND	6.49	38.35	110.63	712-1307-2-ND	4,000	106.00/M	251R14S100GV4T
			10	±5%	0.81	712-1308-1-ND‡	3.41	20.15	58.13	712-1308-2-ND	4,000	56.00/M	251R14S100JV4T
			11	±2%	0.81	712-1311-1-ND	6.49	38.35	110.63	712-1311-2-ND	4,000	106.00/M	251R14S110GV4T
			11	±5%	0.81	712-1312-1-ND	3.41	20.15	58.13	712-1312-2-ND	4,000	56.00/M	251R14S110JV4T
			12	±2%	0.81	712-1313-1-ND	6.49	38.35	110.63	712-1313-2-ND	4,000	106.00/M	251R14S120GV4T
			12	±5%	0.81	712-1314-1-ND‡	3.41	20.15	58.13	712-1314-2-ND	4,000	56.00/M	251R14S120JV4T
			13	±2%	0.81	712-1315-1-ND	6.49	38.35	110.63	712-1315-2-ND	4,000	106.00/M	251R14S130GV4T
			13	±5%	0.81	712-1316-1-ND	3.41	20.15	58.13	712-1316-2-ND	4,000	56.00/M	251R14S130JV4T
			15	±2%	0.81	712-1317-1-ND	6.49	38.35	110.63	712-1317-2-ND	4,000	106.00/M	251R14S150GV4T
			15	±5%	0.81	712-1318-1-ND‡	3.41	20.15	58.13	712-1318-2-ND	4,000	56.00/M	251R14S150JV4T
			16	±2%	0.81	712-1319-1-ND	6.49	38.35	110.63	712-1319-2-ND	4,000	106.00/M	251R14S160GV4T
			16	±5%	0.81	712-1320-1-ND	3.41	20.15	58.13	712-1320-2-ND	4,000	56.00/M	251R14S160JV4T
			18	±2%	0.81	712-1321-1-ND	6.49	38.35	110.63	712-1321-2-ND	4,000	106.00/M	251R14S180GV4T
			18	±5%	0.81	712-1322-1-ND‡	3.41	20.15	58.13	712-1322-2-ND	4,000	56.00/M	251R14S180JV4T
			20	±2%	0.81	712-1329-1-ND	6.49	38.35	110.63	712-1329-2-ND	4,000	106.00/M	251R14S200GV4T
			20	±5%	0.81	712-1330-1-ND‡	3.41	20.15	58.13	712-1330-2-ND	4,000	56.00/M	251R14S200JV4T
			22	±2%	0.81	712-1331-1-ND	6.49	38.35	110.63	712-1331-2-ND	4,000	106.00/M	251R14S220GV4T
			22	±5%	0.81	712-1332-1-ND	3.41	20.15	58.13	712-1332-2-ND	4,000	56.00/M	251R14S220JV4T
			24	±5%	0.81	712-1169-1-ND‡	4.29	25.35	73.13	712-1169-2-ND	4,000	70.00/M	251R14S240JV4T
			27	±2%	0.81	712-1333-1-ND	7.59	44.85	129.38	712-1333-2-ND	4,000	124.00/M	251R14S270GV4T
			27	±5%	0.81	712-1334-1-ND‡	4.29	25.35	73.13	712-1334-2-ND	4,000	70.00/M	251R14S270JV4T
			30	±2%	0.81	712-1339-1-ND	7.59	44.85	129.38	712-1339-2-ND	4,000	124.00/M	251R14S300GV4T
			30	±5%	0.81	712-1340-1-ND	4.29	25.35	73.13	712-1340-2-ND	4,000	70.00/M	251R14S300JV4T
			33	±2%	0.81	712-1341-1-ND	7.59	44.85	129.38	712-1341-2-ND	4,000	124.00/M	251R14S330GV4T
			33	±5%	0.81	712-1342-1-ND‡	4.29	25.35	73.13	712-1342-2-ND	4,000	70.00/M	251R14S330JV4T
			36	±2%	0.81	712-1343-1-ND	7.59	44.85	129.38	712-1343-2-ND	4,000	124.00/M	251R14S360GV4T
			36	±5%	0.81	712-1344-1-ND	4.29	25.35	73.13	712-1344-2-ND	4,000	70.00/M	251R14S360JV4T
			39	±2%	0.81	712-1345-1-ND	7.59	44.85	129.38	712-1345-2-ND	4,000	124.00/M	251R14S390GV4T
			39	±5%	0.81	712-1346-1-ND‡	4.29	25.35	73.13	712-1346-2-ND	4,000	70.00/M	251R14S390JV4T
			43	±2%	0.81	712-1351-1-ND	7.59	44.85	129.38	712-1351-2-ND	4,000	124.00/M	251R14S430GV4T
			43	±5%	0.81	712-1352-1-ND	4.29	25.35	73.13	712-1352-2-ND	4,000	70.00/M	251R14S430JV4T
			47	±2%	0.81	712-1353-1-ND	7.59	44.85	129.38	712-1353-2-ND	4,000	124.00/M	251R14S470GV4T
			47	±5%	0.81	712-1354-1-ND‡	4.29	25.35	73.13	712-1354-2-ND	4,000	70.00/M	251R14S470JV4T
			56	±2%	0.81	712-1357-1-ND	8.47	50.05	144.38	712-1357-2-ND	4,000	139.00/M	251R14S560GV4T
			56	±5%	0.81	712-1358-1-ND	4.73	27.95	80.63	712-1358-2-ND	4,000	77.00/M	251R14S560JV4T
			68	±2%	0.81	712-1361-1-ND	8.47	50.05	144.38	712-1361-2-ND	4,000	139.00/M	251R14S680GV4T
			68	±5%	0.81	712-1362-1-ND‡	4.73	27.95	80.63	712-1362-2-ND	4,000	77.00/M	251R14S680JV4T
			82	±2%	0.81	712-1366-1-ND	8.47	50.05	144.38	712-1366-2-ND	4,000	139.00/M	251R14S820GV4T
			82	±5%	0.81	712-1367-1-ND‡	4.73	27.95	80.63	712-1367-2-ND	4,000	77.00/M	251R14S820JV4T
			100	±2%	0.81	712-1309-1-ND	8.47	50.05	144.38	712-1309-2-ND	4,000	139.00/M	251R14S101GV4T
			100	±5%	0.81	712-1310-1-ND	4.73	27.95	80.63	712-1310-2-ND	4,000	77.00/M	251R14S101JV4T
0805	NPO (S Dielectric)	250	4.7	±0.10pF	1.02 ±0.15	712-1371-1-ND§	4.95	29.25	84.38	712-1371-2-ND	4,000	81.00/M	251R15S4R7BV4E
			5.6	±0.25pF	1.02 ±0.15	712-1372-1-ND§	2.75	16.25	46.88	712-1372-2-ND	4,000	45.00/M	251R15S5R6CV4E
			6.8	±0.25pF	1.02 ±0.15	712-1373-1-ND§	3.41	20.15	58.13	712-1373-2-ND	4,000	56.00/M	251R15S6R8CV4E
			7.5	±0.25pF	1.02 ±0.15	712-1374-1-ND§	3.41	20.15	58.13	712-1374-2-ND	4,000	56.00/M	251R15S7R5CV4E
			8.2	±0.25pF	1.02 ±0.15	712-1375-1-ND§	3.41	20.15	58.13	712-1375-2-ND	4,000	56.00/M	251R15S8R2CV4E
			9.1	±0.25pF	1.02 ±0.15	712-1376-1-ND§	3.41	20.15	58.13	712-1376-2-ND	4,000	56.00/M	251R15S9R1CV4E
			10	±5%	1.02 ±0.15	712-1377-1-ND§	3.41	20.15	58.13	712-1377-2-ND	4,000	56.00/M	251R15S100JV4E
			12	±5%	1.02 ±0.15	712-1378-1-ND§	3.52	20.80	60.00	712-1378-2-ND	4,000	58.00/M	251R15S120JV4E
			15	±5%	1.02 ±0.15	712-1379-1-ND§	3.52	20.80	60.00	712-1379-2-ND	4,000	58.00/M	251R15S150JV4E
			18	±5%	1.02 ±0.15	712-1380-1-ND§	3.52	20.80	60.00	712-1380-2-ND	4,000	58.00/M	251R15S180JV4E
			20	±5%	1.02 ±0.15	712-1381-1-ND§	3.85	22.75	65.63	712-1381-2-ND	4,000	63.00/M	251R15S200JV4E
			22	±5%	1.02 ±0.15	712-1382-1-ND§	3.85	22.75	65.63	712-1382-2-ND	4,000	63.00/M	251R15S220JV4E
			24	±5%	1.02 ±0.15	712-1383-1-ND§	3.85	22.75	65.63	712-1383-2-ND	4,000	63.00/M	251R15S240JV4E
			27	±5%	1.02 ±0.15	712-1384-1-ND§	3.85	22.75	65.63	712-1384-2-ND	4,000	63.00/M	251R15S270JV4E
			30	±5%	1.02 ±0.15	712-1385-1-ND§	3.85	22.75	65.63	712-1385-2-ND	4,000	63.00/M	251R15S300JV4E
			33	±5%	1.02 ±0.15	712-1386-1-ND§	3.85	22.75	65.63	712-1386-2-ND	4,000	63.00/M	251R15S330JV4E
			36	±5%	1.02 ±0.15	712-1387-1-ND§	3.85	22.75	65.63	712-1387-2-ND	4,000	63.00/M	251R15S360JV4E
			39	±5%	1.02 ±0.15	712-1388-1-ND§	3.85	22.75	65.63	712-1388-2-ND	4,000	63.00/M	251R15S390JV4E
			43	±5%	1.02 ±0.15	712-1389-1-ND§	3.85	22.75	65.63	712-1389-2-ND	4,000	63.00/M	251R15S430JV4E
			47	±5%	1.02 ±0.15	712-1390-1-ND§	3.85	22.75	65.63	712-1390-2-ND	4,000	63.00/M	251R15S470JV4E
			56	±5%	1.02 ±0.15	712-1391-1-ND§	4.29	25.35	73.13	712-1391-2-ND	4,000	70.00/M	251R15S560JV4E
			68	±5%	1.02 ±0.15	712-1392-1-ND§	4.29	25.35	73.13	712-1392-2-ND	4,000	70.00/M	251R15S680JV4E
			82	±5%	1.02 ±0.15	712-1393-1-ND§	4.29	25.35	73.13	712-1393-2-ND	4,000	70.00/M	251R15S820JV4E
			100	±5%	1.02 ±0.15	712-1394-1-ND§	4.29	25.35	73.13	712-1394-2-ND	4,000	70.00/M	251R15S101JV4E
			120	±5%	1.02 ±0.15	712-1395-1-ND§	5.06	29.90	86.25	712-1395-2-ND	4,000	83.00/M	251R15S121JV4E
			150	±5%	1.02 ±0.15	712-1396-1-ND§	5.06	29.90	86.25	712-1396-2-ND	4,000	83.00/M	251R15S151JV4E
			180	±5%	1.02 ±0.15	712-1397-1-ND§	5.50	32.50	93.75	712-1397-2-ND	4,000	90.00/M	251R15S181JV4E
			220	±5%	1.02 ±0.15	712-1398-1-ND§	5.50	32.50	93.75	712-1398-2-ND	4,000	90.00/M	251R15S221JV4E

Designer Kits

†	**712-1158-ND**	High-Q Capacitors 0402 S Series Designer Kits, 20 pieces each of parts denoted (560 Total Pieces)	**$60.00**
‡	**712-1159-ND**	High-Q Capacitors 0603 S Series Designer Kits, 20 pieces each of parts denoted (560 Total Pieces)	**$60.00**
§	**712-1370-ND**	High-Q Capacitors 0805 S Series Designer Kits, 20 pieces each of parts denoted (560 Total Pieces)	**$60.00**

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Multilayer Ceramic Chip Capacitors

KEMET multilayer ceramic chip capacitors are produced in plants designed specifically for chip capacitor manufacture. The process features a high degree of mechanization as well as precise controls over raw materials and process conditions. Manufacturing is supplemented by extensive technology, Engineering and Quality Assurance programs. Standard end terminations use a nickel barrier layer and a tin overplate to provide excellent solderability. The 250VDC or Tip & Ring MLCC capacitors are designed and rated for telecommunication ringer circuits where the capacitor is used to block -48 to -52VDC of line voltage and pass a 16~25Hz AC signal pulse of 70~90Vrms.
KEMET's open mode ceramic surface mount capacitor is designed to significantly minimize the probability of a low IR or short circuit condition when forced to failure in a board flex situation. This reduces the potential for causing catastrophic failures.

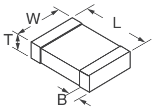

Size Code (EIA)	Dimensions - mm		
	L	W	B
0402	1.0±0.05	0.5±0.05	0.20~0.40
0603	1.6±0.15	0.8±0.15	0.35±0.15
0805	2.0±0.2	1.25 (≥250V: 1.2) ±0.2	0.5±0.25
1206	3.2±0.2	1.6±0.2	0.5±0.25
1210	3.2±0.2	2.5±0.2	0.5±0.25
1808	4.5±0.3	2.0±0.2	0.6±0.35
1812	4.5±0.3	3.2±0.3	0.6±0.35
1825	4.5±0.3	6.4±0.4	0.6±0.35
2220	5.6±0.4	5.0±0.4	0.6±0.35
2225	5.6±0.4	6.3 (≥250V: 6.4) ±0.4	0.6±0.35

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							10	100	500		Qty.	Pricing	
0402	C0G (NP0)	50	.5pF	±0.25pF	0.5	399-1000-1-ND	3.88	22.95	66.19	399-1000-2-ND	10,000	64.00/M	C0402C508C5GACTU
		50	1.2pF	±0.25pF	0.5	399-1001-1-ND	.61	3.58	10.31	399-1001-2-ND	10,000	14.00/M	C0402C129C5GACTU
		50	1.5pF	±0.25pF	0.5	399-1002-1-ND	.61	3.58	10.31	399-1002-2-ND	10,000	14.00/M	C0402C159C5GACTU
		50	1.8pF	±0.25pF	0.5	399-1003-1-ND	.61	3.58	10.31	399-1003-2-ND	10,000	14.00/M	C0402C189C5GACTU
		50	2pF	±0.25pF	0.5	399-1004-1-ND	4.09	24.18	69.75	399-1004-2-ND	10,000	67.00/M	C0402C209C5GACTU
		50	2.7pF	±0.25pF	0.5	399-1005-1-ND	.61	3.58	10.31	399-1005-2-ND	10,000	14.00/M	C0402C279C5GACTU
		50	3pF	±0.25pF	0.5	399-1006-1-ND	4.09	24.18	69.75	399-1006-2-ND	10,000	67.00/M	C0402C309C5GACTU
		50	3.3pF	±0.25pF	0.5	399-1007-1-ND	.61	3.58	10.31	399-1007-2-ND	10,000	14.00/M	C0402C339C5GACTU
		50	5.6pF	±0.5pF	0.5	399-1008-1-ND	3.41	20.15	58.13	399-1008-2-ND	10,000	56.00/M	C0402C569D5GACTU
		50	8.2pF	±0.5pF	0.5	399-1009-1-ND	3.41	20.15	58.13	399-1009-2-ND	10,000	56.00/M	C0402C829D5GACTU
		50	9.1pF	±0.5pF	0.5	399-1010-1-ND	4.09	24.18	69.75	399-1010-2-ND	10,000	67.00/M	C0402C919D5GACTU
		50	10pF	±5%	0.5	399-1011-1-ND	.24	1.43	4.13	399-1011-2-ND	10,000	6.00/M	C0402C100J5GACTU
		50	11pF	±5%	0.5	399-1012-1-ND	4.62	27.30	78.75	399-1012-2-ND	10,000	76.00/M	C0402C110J5GACTU
		50	12pF	±5%	0.5	399-1013-1-ND	.53	3.12	9.00	399-1013-2-ND	10,000	12.00/M	C0402C120J5GACTU
		50	15pF	±5%	0.5	399-1014-1-ND	.24	1.43	4.13	399-1014-2-ND	10,000	6.00/M	C0402C150J5GACTU
		50	22pF	±5%	0.5	399-1015-1-ND	.24	1.43	4.13	399-1015-2-ND	10,000	6.00/M	C0402C220J5GACTU
		50	27pF	±5%	0.5	399-1016-1-ND	.24	1.43	4.13	399-1016-2-ND	10,000	6.00/M	C0402C270J5GACTU
		50	33pF	±5%	0.5	399-1017-1-ND	.24	1.43	4.13	399-1017-2-ND	10,000	6.00/M	C0402C330J5GACTU
		50	39pF	±5%	0.5	399-1018-1-ND	.24	1.43	4.13	399-1018-2-ND	10,000	6.00/M	C0402C390J5GACTU
		50	47pF	±5%	0.5	399-1019-1-ND	.24	1.43	4.13	399-1019-2-ND	10,000	6.00/M	C0402C470J5GACTU
		50	56pF	±5%	0.5	399-1020-1-ND	.24	1.43	4.13	399-1020-2-ND	10,000	6.00/M	C0402C560J5GACTU
		50	75pF	±5%	0.5	399-3191-1-ND	4.62	27.30	78.75	399-3191-2-ND	10,000	76.00/M	C0402C750J5GACTU
		50	82pF	±5%	0.5	399-3192-1-ND	3.85	22.75	65.63	399-3192-2-ND	10,000	63.00/M	C0402C820J5GACTU
		50	91pF	±5%	0.5	399-3193-1-ND	4.62	27.30	78.75	399-3193-2-ND	10,000	76.00/M	C0402C910J5GACTU
		50	100pF	±5%	0.5	399-3194-1-ND	.24	1.43	4.13	399-3194-2-ND	10,000	6.00/M	C0402C101J5GACTU
		25	82pF	±5%	0.5	399-1021-1-ND	3.85	22.75	65.63	399-1021-2-ND	10,000	63.00/M	C0402C820J3GACTU
		25	100pF	±5%	0.5	399-1022-1-ND	.24	1.43	4.13	399-1022-2-ND	10,000	6.00/M	C0402C101J3GACTU
	X7R	50	220pF	±10%	0.5	399-1030-1-ND	.26	1.56	4.50	399-1030-2-ND	10,000	6.00/M	C0402C221K5RACTU
		50	330pF	±10%	0.5	399-1023-1-ND	4.07	24.05	69.38	399-1023-2-ND	10,000	67.00/M	C0402C331K5RACTU
		50	470pF	±10%	0.5	399-1025-1-ND	.21	1.24	3.56	399-1025-2-ND	10,000	5.00/M	C0402C471K5RACTU
		50	560pF	±10%	0.5	399-1026-1-ND	.73	4.29	12.38	399-1026-2-ND	10,000	17.00/M	C0402C561K5RACTU
		50	680pF	±10%	0.5	399-1027-1-ND	.28	1.63	4.69	399-1027-2-ND	10,000	6.00/M	C0402C681K5RACTU
		50	1000pF	±10%	0.5	399-1032-1-ND	.20	1.17	3.38	399-1032-2-ND	10,000	5.00/M	C0402C102K5RACTU
		50	1200pF	±10%	0.5	399-1028-1-ND	.73	4.29	12.38	399-1028-2-ND	10,000	17.00/M	C0402C122K5RACTU
		50	1500pF	±10%	0.5	399-1029-1-ND	.33	1.95	5.63	399-1029-2-ND	10,000	8.00/M	C0402C152K5RACTU
		50	1800pF	±10%	0.5	399-3067-1-ND	4.07	24.05	69.38	399-3067-2-ND	10,000	67.00/M	C0402C182K5RACTU
		50	2200pF	±10%	0.5	399-3068-1-ND	.23	1.37	3.94	399-3068-2-ND	10,000	5.00/M	C0402C222K5RACTU
		50	2700pF	±10%	0.5	399-3069-1-ND	.39	2.28	6.56	399-3069-2-ND	10,000	9.00/M	C0402C272K5RACTU
		50	3300pF	±10%	0.5	399-3070-1-ND	.31	1.82	5.25	399-3070-2-ND	10,000	7.00/M	C0402C332K5RACTU
		50	3900pF	±10%	0.5	399-3071-1-ND	.30	1.76	5.06	399-3071-2-ND	10,000	7.00/M	C0402C392K5RACTU
		50	4700pF	±10%	0.5	399-3072-1-ND	.22	1.30	3.75	399-3072-2-ND	10,000	5.00/M	C0402C472K5RACTU
		50	5600pF	±10%	0.5	399-3073-1-ND	2.44	14.43	41.63	399-3073-2-ND	10,000	40.00/M	C0402C562K5RACTU
		50	6800pF	±10%	0.5	399-3074-1-ND	2.44	14.43	41.63	399-3074-2-ND	10,000	40.00/M	C0402C682K5RACTU
		50	8200pF	±10%	0.5	399-3075-1-ND	2.44	14.43	41.63	399-3075-2-ND	10,000	40.00/M	C0402C822K5RACTU
		50	10000pF	±10%	0.5	399-3066-1-ND	.24	1.43	4.13	399-3066-2-ND	10,000	6.00/M	C0402C103K5RACTU
		25	470pF	±10%	0.5	399-1024-1-ND	4.07	24.05	69.38	399-1024-2-ND	10,000	67.00/M	C0402C471K3RACTU
		25	1000pF	±10%	0.5	399-1031-1-ND	.20	1.17	3.38	399-1031-2-ND	10,000	5.00/M	C0402C102K3RACTU
		25	2200pF	±10%	0.5	399-1033-1-ND	.63	3.71	10.69	399-1033-2-ND	10,000	14.00/M	C0402C222K3RACTU
		25	3900pF	±10%	0.5	399-1034-1-ND	.55	3.25	9.38	399-1034-2-ND	10,000	13.00/M	C0402C392K3RACTU
		25	4700pF	±10%	0.5	399-1035-1-ND	.23	1.37	3.94	399-1035-2-ND	10,000	5.00/M	C0402C472K3RACTU
		25	5600pF	±10%	0.5	399-1276-1-ND	.33	1.95	5.63	399-1276-2-ND	10,000	8.00/M	C0402C562K3RACTU
		25	8200pF	±10%	0.5	399-1277-1-ND	2.44	14.43	41.63	399-1277-2-ND	10,000	40.00/M	C0402C822K3RACTU
		25	10000pF	±5%	0.5	399-1279-1-ND	.33	1.95	5.63	399-1279-2-ND	10,000	8.00/M	C0402C103J3RACTU
		25	10000pF	±10%	0.5	399-1278-1-ND	.20	1.17	3.38	399-1278-2-ND	10,000	5.00/M	C0402C103K3RACTU
		16	5600pF	±10%	0.5	399-1036-1-ND	4.07	24.05	69.38	399-1036-2-ND	10,000	67.00/M	C0402C562K4RACTU
		16	8200pF	±10%	0.5	399-1037-1-ND	4.07	24.05	69.38	399-1037-2-ND	10,000	67.00/M	C0402C822K4RACTU
		16	10000pF	±5%	0.5	399-1039-1-ND	5.39	31.85	91.88	399-1039-2-ND	10,000	88.00/M	C0402C103J4RACTU
		16	10000pF	±10%	0.5	399-1038-1-ND	.20	1.17	3.38	399-1038-2-ND	10,000	5.00/M	C0402C103K4RACTU
		16	12000pF	±10%	0.5	399-4875-1-ND	4.29	25.35	73.13	399-4875-2-ND	10,000	70.00/M	C0402C123K4RACTU
		16	15000pF	±10%	0.5	399-4878-1-ND	4.29	25.35	73.13	399-4878-2-ND	10,000	70.00/M	C0402C153K4RACTU
		16	18000pF	±10%	0.5	399-4881-1-ND	4.29	25.35	73.13	399-4881-2-ND	10,000	70.00/M	C0402C183K4RACTU
		16	22000pF	±10%	0.5	399-3518-1-ND	4.29	25.35	73.13	399-3518-2-ND	10,000	70.00/M	C0402C223K4RACTU
		16	27000pF	±10%	0.5	399-4888-1-ND	4.29	25.35	73.13	399-4888-2-ND	10,000	70.00/M	C0402C273K4RACTU
		16	33000pF	±10%	0.5	399-4891-1-ND	4.29	25.35	73.13	399-4891-2-ND	10,000	70.00/M	C0402C333K4RACTU
		16	39000pF	±10%	0.5	399-4894-1-ND	4.29	25.35	73.13	399-4894-2-ND	10,000	70.00/M	C0402C393K4RACTU
		16	47000pF	±10%	0.5	399-3519-1-ND	4.29	25.35	73.13	399-3519-2-ND	10,000	70.00/M	C0402C473K4RACTU
		16	56000pF	±10%	0.5	399-4901-1-ND	4.29	25.35	73.13	399-4901-2-ND	10,000	70.00/M	C0402C563K4RACTU
		16	68000pF	±10%	0.5	399-4904-1-ND	4.29	25.35	73.13	399-4904-2-ND	10,000	70.00/M	C0402C683K4RACTU
		16	82000pF	±10%	0.5	399-4907-1-ND	4.29	25.35	73.13	399-4907-2-ND	10,000	70.00/M	C0402C823K4RACTU
		16	.1µF	±10%	0.5	399-3521-1-ND	.26	1.56	4.50	399-3521-2-ND	10,000	6.00/M	C0402C104K4RACTU
		10	12000pF	±10%	0.5	399-4876-1-ND	4.07	24.05	69.38	399-4876-2-ND	10,000	67.00/M	C0402C123K8RACTU
		10	15000pF	±10%	0.5	399-4879-1-ND	4.07	24.05	69.38	399-4879-2-ND	10,000	67.00/M	C0402C153K8RACTU
		10	18000pF	±10%	0.5	399-4882-1-ND	4.07	24.05	69.38	399-4882-2-ND	10,000	67.00/M	C0402C183K8RACTU
		10	22000pF	±10%	0.5	399-4884-1-ND	4.07	24.05	69.38	399-4884-2-ND	10,000	67.00/M	C0402C223K8RACTU
		10	27000pF	±10%	0.5	399-4889-1-ND	4.07	24.05	69.38	399-4889-2-ND	10,000	67.00/M	C0402C273K8RACTU
		10	33000pF	±10%	0.5	399-4892-1-ND	4.07	24.05	69.38	399-4892-2-ND	10,000	67.00/M	C0402C333K8RACTU
		10	39000pF	±10%	0.5	399-4895-1-ND	4.07	24.05	69.38	399-4895-2-ND	10,000	67.00/M	C0402C393K8RACTU
		10	47000pF	±10%	0.5	399-4897-1-ND	4.07	24.05	69.38	399-4897-2-ND	10,000	67.00/M	C0402C473K8RACTU
		10	56000pF	±10%	0.5	399-4902-1-ND	4.07	24.05	69.38	399-4902-2-ND	10,000	67.00/M	C0402C563K8RACTU
		10	68000pF	±10%	0.5	399-4905-1-ND	4.07	24.05	69.38	399-4905-2-ND	10,000	67.00/M	C0402C683K8RACTU
		10	82000pF	±10%	0.5	399-4908-1-ND	4.07	24.05	69.38	399-4908-2-ND	10,000	67.00/M	C0402C823K8RACTU
		10	.1µF	±10%	0.5	399-3520-1-ND	.26	1.56	4.50	399-3520-2-ND	10,000	6.00/M	C0402C104K8RACTU
		6.3	12000pF	±10%	0.5	399-4877-1-ND	4.07	24.05	69.38	399-4877-2-ND	10,000	67.00/M	C0402C123K9RACTU
		6.3	15000pF	±10%	0.5	399-4880-1-ND	4.07	24.05	69.38	399-4880-2-ND	10,000	67.00/M	C0402C153K9RACTU
		6.3	18000pF	±10%	0.5	399-4883-1-ND	4.07	24.05	69.38	399-4883-2-ND	10,000	67.00/M	C0402C183K9RACTU
		6.3	22000pF	±10%	0.5	399-4885-1-ND	4.07	24.05	69.38	399-4885-2-ND	10,000	67.00/M	C0402C223K9RACTU
		6.3	27000pF	±10%	0.5	399-4890-1-ND	4.07	24.05	69.38	399-4890-2-ND	10,000	67.00/M	C0402C273K9RACTU
		6.3	33000pF	±10%	0.5	399-4893-1-ND	4.07	24.05	69.38	399-4893-2-ND	10,000	67.00/M	C0402C333K9RACTU
		6.3	39000pF	±10%	0.5	399-4896-1-ND	4.07	24.05	69.38	399-4896-2-ND	10,000	67.00/M	C0402C393K9RACTU
		6.3	47000pF	±10%	0.5	399-4898-1-ND	4.07	24.05	69.38	399-4898-2-ND	10,000	67.00/M	C0402C473K9RACTU

† Open Mode/Fail Safe Termination

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							10	100	500		Qty.	Pricing	
0402	X7R	6.3	56000pF	±10%	0.5	399-4903-1-ND	4.07	24.05	69.38	399-4903-2-ND	10,000	67.00/M	C0402C563K9RACTU
		6.3	68000pF	±10%	0.5	399-4906-1-ND	4.07	24.05	69.38	399-4906-2-ND	10,000	67.00/M	C0402C683K9RACTU
		6.3	82000pF	±10%	0.5	399-4909-1-ND	4.07	24.05	69.38	399-4909-2-ND	10,000	67.00/M	C0402C823K9RACTU
		6.3	.1µF	±10%	0.5	399-4872-1-ND	.50	2.93	8.44	399-4872-2-ND	10,000	11.00/M	C0402C104K9RACTU
	X5R	10	12000pF	±10%	0.5	399-3009-1-ND	2.31	13.65	39.38	399-3009-2-ND	10,000	38.00/M	C0402C123K8PACTU
		10	15000pF	±10%	0.5	399-3011-1-ND	2.31	13.65	39.38	399-3011-2-ND	10,000	38.00/M	C0402C153K8PACTU
		10	18000pF	±10%	0.5	399-3013-1-ND	2.31	13.65	39.38	399-3013-2-ND	10,000	38.00/M	C0402C183K8PACTU
		10	22000pF	±10%	0.5	399-3015-1-ND	2.42	14.30	41.25	399-3015-2-ND	10,000	40.00/M	C0402C223K8PACTU
		10	27000pF	±10%	0.5	399-3017-1-ND	2.42	14.30	41.25	399-3017-2-ND	10,000	40.00/M	C0402C273K8PACTU
		10	33000pF	±10%	0.5	399-3019-1-ND	2.53	14.95	43.13	399-3019-2-ND	10,000	41.00/M	C0402C333K8PACTU
		10	47000pF	±10%	0.5	399-3021-1-ND	2.64	15.60	45.00	399-3021-2-ND	10,000	43.00/M	C0402C473K8PACTU
		10	68000pF	±10%	0.5	399-3023-1-ND	2.75	16.25	46.88	399-3023-2-ND	10,000	45.00/M	C0402C683K8PACTU
		10	.1µF	±10%	0.5	399-3027-1-ND	.24	1.43	4.13	399-3027-2-ND	10,000	6.00/M	C0402C104K8PACTU
		6.3	12000pF	±10%	0.5	399-3008-1-ND	2.31	13.65	39.38	399-3008-2-ND	10,000	38.00/M	C0402C123K9PACTU
		6.3	15000pF	±10%	0.5	399-3010-1-ND	2.31	13.65	39.38	399-3010-2-ND	10,000	38.00/M	C0402C153K9PACTU
		6.3	18000pF	±10%	0.5	399-3012-1-ND	2.31	13.65	39.38	399-3012-2-ND	10,000	38.00/M	C0402C183K9PACTU
		6.3	22000pF	±10%	0.5	399-3014-1-ND	2.42	14.30	41.25	399-3014-2-ND	10,000	40.00/M	C0402C223K9PACTU
		6.3	27000pF	±10%	0.5	399-3016-1-ND	2.42	14.30	41.25	399-3016-2-ND	10,000	40.00/M	C0402C273K9PACTU
		6.3	33000pF	±10%	0.5	399-3018-1-ND	2.53	14.95	43.13	399-3018-2-ND	10,000	41.00/M	C0402C333K9PACTU
		6.3	47000pF	±10%	0.5	399-3020-1-ND	2.64	15.60	45.00	399-3020-2-ND	10,000	43.00/M	C0402C473K9PACTU
		6.3	68000pF	±10%	0.5	399-3022-1-ND	2.75	16.25	46.88	399-3022-2-ND	10,000	45.00/M	C0402C683K9PACTU
		6.3	.1µF	±10%	0.5	399-3026-1-ND	.44	2.60	7.50	399-3026-2-ND	10,000	10.00/M	C0402C104K9PACTU
		6.3	.22µF	±10%	0.5	399-4886-1-ND	4.40	26.00	75.00	399-4886-2-ND	10,000	72.00/M	C0402C224K9PACTU
		6.3	.22µF	±20%	0.5	399-4887-1-ND	4.29	25.35	73.13	399-4887-2-ND	10,000	70.00/M	C0402C224M9PACTU
		6.3	1µF	±10%	0.5	399-4873-1-ND	2.04	12.03	34.69	399-4873-2-ND	10,000	8.00/M	C0402C105K9PACTU
		6.3	1µF	±20%	0.5	399-4874-1-ND	2.04	12.03	34.69	399-4874-2-ND	10,000	33.00/M	C0402C105M9PACTU
0603	C0G (NP0)	100	220pF	±5%	0.8	399-4910-1-ND	2.97	17.55	50.63	399-4910-2-ND	4,000	49.00/M	C0603C221J1GACTU
		50	.5pF	±0.25pF	0.8	399-1044-1-ND	4.88	28.86	83.25	399-1044-2-ND	4,000	80.00/M	C0603C508C5GACTU
		50	1pF	±0.25pF	0.8	399-1045-1-ND	4.07	24.05	69.38	399-1045-2-ND	4,000	67.00/M	C0603C109C5GACTU
		50	1.5pF	±0.25pF	0.8	399-1046-1-ND	4.07	24.05	69.38	399-1046-2-ND	4,000	67.00/M	C0603C159C5GACTU
		50	2pF	±0.25pF	0.8	399-1047-1-ND	4.88	28.86	83.25	399-1047-2-ND	4,000	80.00/M	C0603C209C5GACTU
		50	3pF	±0.25pF	0.8	399-1048-1-ND	4.88	28.86	83.25	399-1048-2-ND	4,000	80.00/M	C0603C309C5GACTU
		50	10pF	±5%	0.8	399-1049-1-ND	.28	1.63	4.69	399-1049-2-ND	4,000	6.00/M	C0603C100J5GACTU
		50	12pF	±5%	0.8	399-1050-1-ND	.39	2.28	6.56	399-1050-2-ND	4,000	9.00/M	C0603C120J5GACTU
		50	15pF	±5%	0.8	399-1051-1-ND	.36	2.15	6.19	399-1051-2-ND	4,000	8.00/M	C0603C150J5GACTU
		50	18pF	±5%	0.8	399-1052-1-ND	.36	2.15	6.19	399-1052-2-ND	4,000	8.00/M	C0603C180J5GACTU
		50	22pF	±5%	0.8	399-1053-1-ND	.36	2.15	6.19	399-1053-2-ND	4,000	8.00/M	C0603C220J5GACTU
		50	27pF	±5%	0.8	399-1054-1-ND	.36	2.15	6.19	399-1054-2-ND	4,000	8.00/M	C0603C270J5GACTU
		50	33pF	±5%	0.8	399-1055-1-ND	.33	1.95	5.63	399-1055-2-ND	4,000	8.00/M	C0603C330J5GACTU
		50	47pF	±5%	0.8	399-1056-1-ND	.39	2.28	6.56	399-1056-2-ND	4,000	9.00/M	C0603C470J5GACTU
		50	56pF	±5%	0.8	399-1057-1-ND	.29	1.69	4.88	399-1057-2-ND	4,000	7.00/M	C0603C560J5GACTU
		50	68pF	±5%	0.8	399-1058-1-ND	.37	2.21	6.38	399-1058-2-ND	4,000	9.00/M	C0603C680J5GACTU
		50	82pF	±5%	0.8	399-1060-1-ND	.39	2.28	6.56	399-1060-2-ND	4,000	9.00/M	C0603C820J5GACTU
		50	82pF	±10%	0.8	399-1059-1-ND	2.20	13.00	37.50	399-1059-2-ND	4,000	36.00/M	C0603C820K5GACTU
		50	100pF	±5%	0.8	399-1061-1-ND	.26	1.56	4.50	399-1061-2-ND	4,000	6.00/M	C0603C101J5GACTU
		50	120pF	±5%	0.8	399-1062-1-ND	.39	2.28	6.56	399-1062-2-ND	4,000	9.00/M	C0603C121J5GACTU
		50	150pF	±5%	0.8	399-1063-1-ND	.44	2.60	7.50	399-1063-2-ND	4,000	10.00/M	C0603C151J5GACTU
		50	180pF	±5%	0.8	399-1064-1-ND	.97	5.72	16.50	399-1064-2-ND	4,000	22.00/M	C0603C181J5GACTU
		50	220pF	±5%	0.8	399-1066-1-ND	.48	2.86	8.25	399-1066-2-ND	4,000	11.00/M	C0603C221J5GACTU
		50	220pF	±10%	0.8	399-1065-1-ND	2.64	15.60	45.00	399-1065-2-ND	4,000	43.00/M	C0603C221K5GACTU
		50	270pF	±5%	0.8	399-1067-1-ND	.47	2.80	8.06	399-1067-2-ND	4,000	11.00/M	C0603C271J5GACTU
		50	330pF	±5%	0.8	399-1068-1-ND	.54	3.19	9.19	399-1068-2-ND	4,000	12.00/M	C0603C331J5GACTU
		50	390pF	±5%	0.8	399-1069-1-ND	.63	3.71	10.69	399-1069-2-ND	4,000	14.00/M	C0603C391J5GACTU
		50	560pF	±5%	0.8	399-3287-1-ND	.72	4.23	12.19	399-3287-2-ND	4,000	16.00/M	C0603C561J5GACTU
		50	620pF	±5%	0.8	399-3288-1-ND	3.85	22.75	65.63	399-3288-2-ND	4,000	63.00/M	C0603C621J5GACTU
		50	680pF	±5%	0.8	399-3289-1-ND	.61	3.58	10.31	399-3289-2-ND	4,000	14.00/M	C0603C681J5GACTU
		50	750pF	±5%	0.8	399-3290-1-ND	3.96	23.40	67.50	399-3290-2-ND	4,000	65.00/M	C0603C751J5GACTU
		50	820pF	±5%	0.8	399-3291-1-ND	.99	5.85	16.88	399-3291-2-ND	4,000	23.00/M	C0603C821J5GACTU
		50	910pF	±5%	0.8	399-3292-1-ND	4.09	24.18	69.75	399-3292-2-ND	4,000	67.00/M	C0603C911J5GACTU
		50	1000pF	±5%	0.8	399-3293-1-ND	.59	3.51	10.13	399-3293-2-ND	4,000	14.00/M	C0603C102J5GACTU
	X7R	200	10000pF	±10%	0.8	399-5088-1-ND	4.00	23.66	68.25	399-5088-2-ND	4,000	66.00/M	C0603C103K2RACTU
		100	5600pF	±10%	0.8	399-3186-1-ND	3.30	19.50	56.25	399-3186-2-ND	4,000	54.00/M	C0603C562K1RACTU
		100	6800pF	±10%	0.8	399-3187-1-ND	3.30	19.50	56.25	399-3187-2-ND	4,000	54.00/M	C0603C682K1RACTU
		100	8200pF	±10%	0.8	399-3188-1-ND	3.30	19.50	56.25	399-3188-2-ND	4,000	54.00/M	C0603C822K1RACTU
		100	10000pF	±5%	0.8	399-3190-1-ND	4.95	29.25	84.38	399-3190-2-ND	4,000	81.00/M	C0603C103J1RACTU
		100	10000pF	±10%	0.8	399-3189-1-ND	3.30	19.50	56.25	399-3189-2-ND	4,000	54.00/M	C0603C103K1RACTU
		100	12000pF	±10%	0.8	399-3473-1-ND	3.30	19.50	56.25	399-3473-2-ND	4,000	54.00/M	C0603C123K1RACTU
		100	15000pF	±10%	0.8	399-3474-1-ND	3.30	19.50	56.25	399-3474-2-ND	4,000	54.00/M	C0603C153K1RACTU
		100	18000pF	±10%	0.8	399-3475-1-ND	3.30	19.50	56.25	399-3475-2-ND	4,000	54.00/M	C0603C183K1RACTU
		100	22000pF	±10%	0.8	399-3476-1-ND	3.30	19.50	56.25	399-3476-2-ND	4,000	54.00/M	C0603C223K1RACTU
		100	27000pF	±10%	0.8	399-3477-1-ND	3.30	19.50	56.25	399-3477-2-ND	4,000	54.00/M	C0603C273K1RACTU
		100	33000pF	±10%	0.8	399-3478-1-ND	3.30	19.50	56.25	399-3478-2-ND	4,000	54.00/M	C0603C333K1RACTU
		100	39000pF	±10%	0.8	399-3479-1-ND	3.30	19.50	56.25	399-3479-2-ND	4,000	54.00/M	C0603C393K1RACTU
		50	220pF	±10%	0.8	399-1071-1-ND	.42	2.47	7.13	399-1071-2-ND	4,000	10.00/M	C0603C221K5RACTU
		50	220pF	±20%	0.8	399-1070-1-ND	2.75	16.25	46.88	399-1070-2-ND	4,000	45.00/M	C0603C221M5RACTU
		50	270pF	±10%	0.8	399-1072-1-ND	2.86	16.90	48.75	399-1072-2-ND	4,000	47.00/M	C0603C271K5RACTU
		50	330pF	±10%	0.8	399-1073-1-ND	.47	2.80	8.06	399-1073-2-ND	4,000	11.00/M	C0603C331K5RACTU
		50	390pF	±10%	0.8	399-1074-1-ND	2.86	16.90	48.75	399-1074-2-ND	4,000	47.00/M	C0603C391K5RACTU
		50	470pF	±10%	0.8	399-1075-1-ND	.66	3.90	11.25	399-1075-2-ND	4,000	15.00/M	C0603C471K5RACTU
		50	560pF	±10%	0.8	399-1076-1-ND	2.86	16.90	48.75	399-1076-2-ND	4,000	47.00/M	C0603C561K5RACTU
		50	680pF	±10%	0.8	399-1077-1-ND	.43	2.54	7.31	399-1077-2-ND	4,000	10.00/M	C0603C681K5RACTU
		50	820pF	±10%	0.8	399-1078-1-ND	.46	2.73	7.88	399-1078-2-ND	4,000	11.00/M	C0603C821K5RACTU
		50	1000pF	±5%	0.8	399-1083-1-ND	.35	2.08	6.00	399-1083-2-ND	4,000	8.00/M	C0603C102J5RACTU
		50	1000pF	±10%	0.8	399-1082-1-ND	.22	1.30	3.75	399-1082-2-ND	4,000	5.00/M	C0603C102K5RACTU
		50	1500pF	±10%	0.8	399-1084-1-ND	.41	2.41	6.94	399-1084-2-ND	4,000	9.00/M	C0603C152K5RACTU
		50	2200pF	±10%	0.8	399-1085-1-ND	.29	1.69	4.88	399-1085-2-ND	4,000	7.00/M	C0603C222K5RACTU
		50	3300pF	±10%	0.8	399-1086-1-ND	.41	2.41	6.94	399-1086-2-ND	4,000	9.00/M	C0603C332K5RACTU
		50	4700pF	±5%	0.8	399-1088-1-ND	.33	1.95	7.50	399-1088-2-ND	4,000	8.00/M	C0603C472J5RACTU
		50	4700pF	±10%	0.8	399-1087-1-ND	.28	1.63	4.69	399-1087-2-ND	4,000	6.00/M	C0603C472K5RACTU
		50	6800pF	±5%	0.8	399-1090-1-ND	4.29	25.35	73.13	399-1090-2-ND	4,000	70.00/M	C0603C682J5RACTU
		50	6800pF	±10%	0.8	399-1089-1-ND	.33	1.95	5.63	399-1089-2-ND	4,000	8.00/M	C0603C682K5RACTU
		50	10000pF	±5%	0.8	399-1092-1-ND	.33	1.95	5.63	399-1092-2-ND	4,000	8.00/M	C0603C103J5RACTU
		50	10000pF	±10%	0.8	399-1091-1-ND	.22	1.30	3.75	399-1091-2-ND	4,000	5.00/M	C0603C103K5RACTU
		50	22000pF	±10%	0.8	399-1280-1-ND	.50	2.93	8.44	399-1280-2-ND	4,000	11.00/M	C0603C223K5RACTU
		50	.1µF	±10%	0.8	399-5089-1-ND	.64	3.77	10.88	399-5089-2-ND	4,000	10.00/M	C0603C104K5RACTU
		25	22000pF	±10%	0.8	399-1094-1-ND	.41	2.41	6.94	399-1094-2-ND	4,000	9.00/M	C0603C223K3RACTU
		25	.1µF	±5%	0.8	399-1282-1-ND	4.62	27.30	78.75	399-1282-2-ND	4,000	76.00/M	C0603C104J3RACTU
		25	.1µF	±10%	0.8	399-1281-1-ND	1.18	6.96	20.06	399-1281-2-ND	4,000	19.00/M	C0603C104K3RACTU
		25	.1µF	±20%	0.8	399-1283-1-ND	3.23	19.11	55.13	399-1283-2-ND	4,000	53.00/M	C0603C104M3RACTU

† Open Mode/Fail Safe Termination

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.** *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							10	100	500		Qty.	Pricing	
0603	X7R	16	22000pF	±10%	0.8	399-1093-1-ND	.44	2.60	7.50	399-1093-2-ND	4,000	10.00/M	C0603C223K4RACTU
		16	.1µF	±5%	0.8	399-1097-1-ND	.83	4.88	14.06	399-1097-2-ND	4,000	19.00/M	C0603C104J4RACTU
		16	.1µF	±10%	0.8	399-1096-1-ND	.20	1.17	4.28	399-1096-2-ND	4,000	5.00/M	C0603C104K4RACTU
		16	.1µF	±20%	0.8	399-1099-1-ND	.23	1.37	3.94	399-1099-2-ND	4,000	5.00/M	C0603C104M4RACTU
		16	.27µF	±10%	0.8	399-4913-1-ND	4.84	28.60	82.50	399-4913-2-ND	4,000	79.00/M	C0603C274K4RACTU
		16	.33µF	±10%	0.8	399-4916-1-ND	5.06	29.90	86.25	399-4916-2-ND	4,000	83.00/M	C0603C334K4RACTU
		16	.39µF	±10%	0.8	399-4919-1-ND	5.28	31.20	90.00	399-4919-2-ND	4,000	86.00/M	C0603C394K4RACTU
		16	.47µF	±10%	0.8	399-4922-1-ND	5.50	32.50	93.75	399-4922-2-ND	4,000	90.00/M	C0603C474K4RACTU
		10	.1µF	±10%	0.8	399-1095-1-ND	.23	1.37	3.94	399-1095-2-ND	4,000	5.00/M	C0603C104K8RACTU
		10	.27µF	±10%	0.8	399-4914-1-ND	4.84	28.60	82.50	399-4914-2-ND	4,000	79.00/M	C0603C274K8RACTU
		10	.33µF	±10%	0.8	399-4917-1-ND	5.06	29.90	86.25	399-4917-2-ND	4,000	83.00/M	C0603C334K8RACTU
		10	.39µF	±10%	0.8	399-4920-1-ND	5.28	31.20	90.00	399-4920-2-ND	4,000	86.00/M	C0603C394K8RACTU
		10	.47µF	±10%	0.8	399-4923-1-ND	5.50	32.50	93.75	399-4923-2-ND	4,000	90.00/M	C0603C474K8RACTU
		6.3	.27µF	±10%	0.8	399-4915-1-ND	4.84	28.60	82.50	399-4915-2-ND	4,000	79.00/M	C0603C274K9RACTU
		6.3	.33µF	±10%	0.8	399-4918-1-ND	5.06	29.90	86.25	399-4918-2-ND	4,000	83.00/M	C0603C334K9RACTU
		6.3	.39µF	±10%	0.8	399-4921-1-ND	5.28	31.20	90.00	399-4921-2-ND	4,000	86.00/M	C0603C394K9RACTU
		6.3	.47µF	±10%	0.8	399-4924-1-ND	5.50	32.50	93.75	399-4924-2-ND	4,000	90.00/M	C0603C474K9RACTU
	X5R	16	1.0µF	±10%	0.8	399-5090-1-ND	.75	4.42	12.75	399-5090-2-ND	4,000	12.00/M	C0603C105K4PACTU
		10	.27µF	±10%	0.8	399-3111-1-ND	2.60	15.34	44.25	399-3111-2-ND	4,000	42.00/M	C0603C274K8PACTU
		10	.33µF	±10%	0.8	399-3112-1-ND	2.60	15.34	44.25	399-3112-2-ND	4,000	42.00/M	C0603C334K8PACTU
		10	.39µF	±10%	0.8	399-3113-1-ND	2.60	15.34	44.25	399-3113-2-ND	4,000	42.00/M	C0603C394K8PACTU
		10	.47µF	±10%	0.8	399-3114-1-ND	.94	5.53	15.94	399-3114-2-ND	4,000	21.00/M	C0603C474K8PACTU
		10	.56µF	±10%	0.8	399-3115-1-ND	2.60	15.34	44.25	399-3115-2-ND	4,000	42.00/M	C0603C564K8PACTU
		10	.68µF	±10%	0.8	399-3116-1-ND	2.60	15.34	44.25	399-3116-2-ND	4,000	42.00/M	C0603C684K8PACTU
		10	.82µF	±10%	0.8	399-3117-1-ND	2.60	15.34	44.25	399-3117-2-ND	4,000	42.00/M	C0603C824K8PACTU
		10	1µF	±10%	0.8	399-3118-1-ND	1.98	11.70	33.75	399-3118-2-ND	4,000	32.00/M	C0603C105K8PACTU
		10	2.2µF	±10%	0.8	399-4911-1-ND	5.50	32.50	93.75	399-4911-2-ND	4,000	90.00/M	C0603C225K8PACTU
		10	2.2µF	±20%	0.8	399-4912-1-ND	5.39	31.85	91.88	399-4912-2-ND	4,000	88.00/M	C0603C225M8PACTU
		6.3	2.2µF	±10%	0.8	399-3362-1-ND	4.40	26.00	75.00	399-3362-2-ND	4,000	72.00/M	C0603C225K9PACTU
		6.3	4.7µF	±10%	0.8	399-3482-1-ND	6.05	35.75	103.13	399-3482-2-ND	4,000	99.00/M	C0603C475K9PACTU
	Y5V	25	.1µF	+80%, -20%	0.8	399-1100-1-ND	.20	1.17	3.38	399-1100-2-ND	4,000	5.00/M	C0603C104Z3VACTU
		25	.1µF	±20%	0.8	399-1101-1-ND	.61	3.58	10.31	399-1101-2-ND	4,000	14.00/M	C0603C104M3VACTU
		25	.15µF	+80%, -20%	0.8	399-1290-1-ND	2.90	17.16	49.50	399-1290-2-ND	4,000	48.00/M	C0603C154Z3VACTU
		25	.22µF	+80%, -20%	0.8	399-1103-1-ND	3.10	18.33	52.88	399-1103-2-ND	4,000	51.00/M	C0603C224Z3VACTU
		25	.33µF	+80%, -20%	0.8	399-1292-1-ND	3.41	20.15	58.13	399-1292-2-ND	4,000	56.00/M	C0603C334Z3VACTU
		16	.1µF	+80%, -20%	0.8	399-1098-1-ND	.26	1.56	4.50	399-1098-2-ND	4,000	6.00/M	C0603C104Z4VACTU
		16	.15µF	+80%, -20%	0.8	399-1289-1-ND	2.83	16.71	48.19	399-1289-2-ND	4,000	46.00/M	C0603C154Z4VACTU
		16	.22µF	+80%, -20%	0.8	399-1102-1-ND	.44	2.60	7.50	399-1102-2-ND	4,000	10.00/M	C0603C224Z4VACTU
		16	.33µF	+80%, -20%	0.8	399-1291-1-ND	2.97	17.55	50.63	399-1291-2-ND	4,000	49.00/M	C0603C334Z4VACTU
		10	.47µF	+80%, -20%	0.8	399-3218-1-ND	2.92	17.23	49.69	399-3218-2-ND	4,000	48.00/M	C0603C474Z8VACTU
		10	.68µF	+80%, -20%	1.0	399-3220-1-ND	3.96	23.40	67.50	399-3220-2-ND	4,000	65.00/M	C0603C684Z8VACTU
		10	1µF	+80%, -20%	1.25	399-3216-1-ND	.44	2.60	7.50	399-3216-2-ND	4,000	10.00/M	C0603C105Z8VACTU
		6.3	.47µF	+80%, -20%	0.8	399-3219-1-ND	2.92	17.23	49.69	399-3219-2-ND	4,000	48.00/M	C0603C474Z9VACTU
		6.3	.68µF	+80%, -20%	1.0	399-3221-1-ND	3.96	23.40	67.50	399-3221-2-ND	4,000	65.00/M	C0603C684Z9VACTU
		6.3	1µF	+80%, -20%	1.25	399-3217-1-ND	1.32	7.80	22.50	399-3217-2-ND	4,000	22.00/M	C0603C105Z9VACTU
0805	C0G (NP0)	500	100pF	±5%	1.27	399-5102-1-ND	5.07	29.97	86.44	399-5102-2-ND	2,500	78.00/M	C0805C101JCGACTU
		100	10pF	±5%	0.78	399-1109-1-ND	1.21	7.15	20.63	399-1109-2-ND	4,000	20.00/M	C0805C100J1GACTU
		100	100pF	±5%	0.78	399-1123-1-ND	.68	4.03	11.63	399-1123-2-ND	4,000	16.00/M	C0805C101J1GACTU
		100	220pF	±5%	0.78	399-1128-1-ND	3.08	18.20	52.50	399-1128-2-ND	4,000	50.00/M	C0805C221J1GACTU
		100	330pF	±5%	0.78	399-1131-1-ND	1.21	7.15	20.63	399-1131-2-ND	4,000	20.00/M	C0805C331J1GACTU
		100	1000pF	±5%	0.9	399-1137-1-ND	4.07	24.05	69.38	399-1137-2-ND	4,000	67.00/M	C0805C102J1GACTU
		50	1pF	±0.25pF	0.78	399-1104-1-ND	3.85	22.75	65.63	399-1104-2-ND	4,000	63.00/M	C0805C109C5GACTU
		50	1.5pF	±0.25pF	0.78	399-1105-1-ND	3.85	22.75	65.63	399-1105-2-ND	4,000	63.00/M	C0805C159C5GACTU
		50	2pF	±0.25pF	0.78	399-1106-1-ND	4.62	27.30	78.75	399-1106-2-ND	4,000	76.00/M	C0805C209C5GACTU
		50	3pF	±0.25pF	0.78	399-1107-1-ND	4.62	27.30	78.75	399-1107-2-ND	4,000	76.00/M	C0805C309C5GACTU
		50	10pF	±5%	0.78	399-1108-1-ND	.61	3.58	10.31	399-1108-2-ND	4,000	14.00/M	C0805C100J5GACTU
		50	12pF	±5%	0.78	399-1110-1-ND	.80	4.75	13.69	399-1110-2-ND	4,000	18.00/M	C0805C120J5GACTU
		50	15pF	±5%	0.78	399-1111-1-ND	.79	4.68	13.50	399-1111-2-ND	4,000	18.00/M	C0805C150J5GACTU
		50	18pF	±5%	0.78	399-1112-1-ND	.75	4.42	12.75	399-1112-2-ND	4,000	17.00/M	C0805C180J5GACTU
		50	22pF	±5%	0.78	399-1113-1-ND	.97	5.72	16.50	399-1113-2-ND	4,000	22.00/M	C0805C220J5GACTU
		50	27pF	±5%	0.78	399-1114-1-ND	.80	4.75	13.69	399-1114-2-ND	4,000	18.00/M	C0805C270J5GACTU
		50	33pF	±5%	0.78	399-1115-1-ND	.55	3.25	9.38	399-1115-2-ND	4,000	13.00/M	C0805C330J5GACTU
		50	39pF	±5%	0.78	399-1116-1-ND	2.20	13.00	37.50	399-1116-2-ND	4,000	36.00/M	C0805C390J5GACTU
		50	47pF	±5%	0.78	399-1117-1-ND	.55	3.25	9.38	399-1117-2-ND	4,000	13.00/M	C0805C470J5GACTU
		50	56pF	±5%	0.78	399-1118-1-ND	.95	5.59	16.13	399-1118-2-ND	4,000	22.00/M	C0805C560J5GACTU
		50	68pF	±5%	0.78	399-1119-1-ND	.97	5.72	16.50	399-1119-2-ND	4,000	22.00/M	C0805C680J5GACTU
		50	82pF	±5%	0.78	399-1120-1-ND	.91	5.40	15.56	399-1120-2-ND	4,000	21.00/M	C0805C820J5GACTU
		50	100pF	±5%	0.78	399-1122-1-ND	.97	5.72	16.50	399-1122-2-ND	4,000	22.00/M	C0805C101J5GACTU
		50	100pF	±10%	0.78	399-1121-1-ND	.50	2.93	8.44	399-1121-2-ND	4,000	11.00/M	C0805C101K5GACTU
		50	120pF	±5%	0.78	399-1124-1-ND	1.10	6.50	18.75	399-1124-2-ND	4,000	18.00/M	C0805C121J5GACTU
		50	150pF	±5%	0.78	399-1125-1-ND	.65	3.84	11.06	399-1125-2-ND	4,000	15.00/M	C0805C151J5GACTU
		50	180pF	±5%	0.78	399-1126-1-ND	.78	4.62	13.31	399-1126-2-ND	4,000	18.00/M	C0805C181J5GACTU
		50	220pF	±5%	0.78	399-1127-1-ND	1.10	6.50	18.75	399-1127-2-ND	4,000	18.00/M	C0805C221J5GACTU
		50	270pF	±5%	0.78	399-1129-1-ND	2.64	15.60	45.00	399-1129-2-ND	4,000	43.00/M	C0805C271J5GACTU
		50	330pF	±5%	0.78	399-1130-1-ND	.55	3.25	9.38	399-1130-2-ND	4,000	13.00/M	C0805C331J5GACTU
		50	390pF	±5%	0.78	399-1132-1-ND	2.86	16.90	48.75	399-1132-2-ND	4,000	47.00/M	C0805C391J5GACTU
		50	470pF	±5%	0.78	399-1133-1-ND	1.60	9.43	27.19	399-1133-2-ND	4,000	26.00/M	C0805C471J5GACTU
		50	560pF	±5%	0.78	399-1134-1-ND	1.07	6.31	18.19	399-1134-2-ND	4,000	24.00/M	C0805C561J5GACTU
		50	680pF	±5%	0.78	399-1135-1-ND	1.10	6.50	18.75	399-1135-2-ND	4,000	18.00/M	C0805C681J5GACTU
		50	1000pF	±5%	0.78	399-1136-1-ND	.85	5.01	14.44	399-1136-2-ND	4,000	19.00/M	C0805C102J5GACTU
	X7R	1000	1000pF	±10%	1.27	399-4818-1-ND	5.29	31.27	90.19	399-4818-2-ND	2,500	87.00/M	C0805C102KDRACTU
		250	1000pF	±10%	0.78	399-4666-1-ND	5.78	34.13	98.44	399-4666-2-ND	4,000	95.00/M	C0805C102KARACTU
		250	2200pF	±10%	0.78	399-4667-1-ND	5.78	34.13	98.44	399-4667-2-ND	4,000	95.00/M	C0805C222KARACTU
		250	4700pF	±10%	0.78	399-4668-1-ND	5.78	34.13	98.44	399-4668-2-ND	4,000	95.00/M	C0805C472KARACTU
		250	10000pF	±10%	0.78	399-4669-1-ND	1.29	7.61	21.94	399-4669-2-ND	4,000	21.00/M	C0805C103KARACTU
		250	22000pF	±10%	0.78	399-4670-1-ND	5.78	34.13	98.44	399-4670-2-ND	4,000	95.00/M	C0805C223KARACTU
		100	22000pF	±10%	0.9	399-5108-1-ND†	3.65	21.58	62.25	399-5108-2-ND†	2,500	56.00/M	C0805F223K1RACTU
		100	1000pF	±10%	0.78	399-1148-1-ND	1.05	6.18	17.81	399-1148-2-ND	4,000	24.00/M	C0805C102K1RACTU
		100	10000pF	±10%	0.78	399-1159-1-ND	.43	2.54	7.31	399-1159-2-ND	4,000	10.00/M	C0805C103K1RACTU
		100	56000pF	±10%	1.0	399-3483-1-ND	3.54	20.93	60.38	399-3483-2-ND	2,500	58.00/M	C0805C563K1RACTU
		100	68000pF	±10%	1.0	399-3484-1-ND	3.54	20.93	60.38	399-3484-2-ND	2,500	58.00/M	C0805C683K1RACTU
		100	82000pF	±10%	1.0	399-3485-1-ND	3.54	20.93	60.38	399-3485-2-ND	2,500	58.00/M	C0805C823K1RACTU
		100	.1µF	±10%	1.0	399-3486-1-ND	3.54	20.93	60.38	399-3486-2-ND	2,500	58.00/M	C0805C104K1RACTU
		100	.12µF	±10%	1.25	399-3488-1-ND	3.54	20.93	60.38	399-3488-2-ND	2,500	58.00/M	C0805C124K1RACTU
		50	220pF	±10%	0.78	399-1138-1-ND	3.63	21.45	61.88	399-1138-2-ND	4,000	59.00/M	C0805C221K5RACTU
		50	270pF	±10%	0.78	399-1139-1-ND	3.63	21.45	61.88	399-1139-2-ND	4,000	59.00/M	C0805C271K5RACTU
		50	330pF	±10%	0.78	399-1140-1-ND	.58	3.45	9.94	399-1140-2-ND	4,000	13.00/M	C0805C331K5RACTU
		50	390pF	±10%	0.78	399-1141-1-ND	3.63	21.45	61.88	399-1141-2-ND	4,000	59.00/M	C0805C391K5RACTU
		50	470pF	±10%	0.78	399-1142-1-ND	.57	3.38	9.75	399-1142-2-ND	4,000	13.00/M	C0805C471K5RACTU
		50	560pF	±10%	0.78	399-1143-1-ND	2.75	16.25	46.88	399-1143-2-ND	4,000	45.00/M	C0805C561K5RACTU

† Open Mode/Fail Safe Termination

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							10	100	500		Qty.	Pricing	
0805	X7R	50	680pF	±10%	0.78	399-1144-1-ND	2.75	16.25	46.88	399-1144-2-ND	4,000	45.00/M	C0805C681K5RACTU
		50	820pF	±10%	0.78	399-1145-1-ND	2.75	16.25	46.88	399-1145-2-ND	4,000	45.00/M	C0805C821K5RACTU
		50	1000pF	±5%	0.78	399-1149-1-ND	.83	4.88	14.06	399-1149-2-ND	4,000	19.00/M	C0805C102J5RACTU
		50	1000pF	±10%	0.78	399-1147-1-ND	.34	2.02	5.81	399-1147-2-ND	4,000	8.00/M	C0805C102K5RACTU
		50	1000pF	±20%	0.78	399-1146-1-ND	.50	2.93	8.44	399-1146-2-ND	4,000	11.00/M	C0805C102M5RACTU
		50	1500pF	±10%	0.78	399-1150-1-ND	2.75	16.25	46.88	399-1150-2-ND	4,000	45.00/M	C0805C152K5RACTU
		50	2200pF	±10%	0.78	399-1151-1-ND	.37	2.21	6.38	399-1151-2-ND	4,000	9.00/M	C0805C222K5RACTU
		50	2700pF	±10%	0.78	399-1152-1-ND	2.75	16.25	46.88	399-1152-2-ND	4,000	45.00/M	C0805C272K5RACTU
		50	3300pF	±10%	0.78	399-1153-1-ND	.46	2.73	7.88	399-1153-2-ND	4,000	11.00/M	C0805C332K5RACTU
		50	3900pF	±10%	0.78	399-1154-1-ND	.51	2.99	8.63	399-1154-2-ND	4,000	12.00/M	C0805C392K5RACTU
		50	4700pF	±10%	0.78	399-1155-1-ND	.43	2.54	7.31	399-1155-2-ND	4,000	10.00/M	C0805C472K5RACTU
		50	5600pF	±10%	0.78	399-1156-1-ND	2.75	16.25	46.88	399-1156-2-ND	4,000	45.00/M	C0805C562K5RACTU
		50	6800pF	±10%	0.78	399-1157-1-ND	2.75	16.25	46.88	399-1157-2-ND	4,000	45.00/M	C0805C682K5RACTU
		50	10000pF	±10%	0.78	399-1158-1-ND	.33	1.95	5.63	399-1158-2-ND	4,000	8.00/M	C0805C103K5RACTU
		50	10000pF	±10%	0.78	399-5107-1-ND†	3.07	18.14	52.31	399-5107-2-ND†	4,000	50.00/M	C0805F103K5RACTU
		50	10000pF	±20%	0.78	399-1160-1-ND	.33	1.95	5.63	399-1160-2-ND	4,000	8.00/M	C0805C103M5RACTU
		50	15000pF	±10%	0.9	399-1161-1-ND	.46	2.73	7.88	399-1161-2-ND	4,000	11.00/M	C0805C153K5RACTU
		50	18000pF	±10%	0.78	399-1162-1-ND	3.08	18.20	52.50	399-1162-2-ND	4,000	50.00/M	C0805C183K5RACTU
		50	22000pF	±10%	0.78	399-1163-1-ND	.58	3.45	9.94	399-1163-2-ND	4,000	13.00/M	C0805C223K5RACTU
		50	27000pF	±10%	0.78	399-1164-1-ND	.67	3.97	11.44	399-1164-2-ND	4,000	15.00/M	C0805C273K5RACTU
		50	33000pF	±10%	0.78	399-1165-1-ND	.69	4.10	11.81	399-1165-2-ND	4,000	16.00/M	C0805C333K5RACTU
		50	47000pF	±10%	0.9	399-1166-1-ND	.61	3.58	10.31	399-1166-2-ND	4,000	14.00/M	C0805C473K5RACTU
		50	47000pF	±10%	0.78	399-5109-1-ND†	3.76	22.23	64.13	399-5109-2-ND†	4,000	62.00/M	C0805F473K5RACTU
		50	.1µF	±5%	0.9	399-1171-1-ND	1.21	7.15	20.63	399-1171-2-ND	4,000	20.00/M	C0805C104J5RACTU
		50	.1µF	±10%	0.9	399-1170-1-ND	.46	2.73	7.88	399-1170-2-ND	4,000	11.00/M	C0805C104K5RACTU
		50	.1µF	±10%	0.9	399-5110-1-ND†	5.54	32.76	94.50	399-5110-2-ND†	2,500	86.00/M	C0805F104K5RACTU
		50	.1µF	±20%	0.9	399-1169-1-ND	.46	2.73	7.88	399-1169-2-ND	4,000	11.00/M	C0805C104M5RACTU
		50	.12µF	±10%	1.0	399-3487-1-ND	6.39	37.77	108.94	399-3487-2-ND	4,000	105.00/M	C0805C124K5RACTU
		50	.15µF	±10%	0.9	399-3489-1-ND	6.90	40.76	117.56	399-3489-2-ND	4,000	113.00/M	C0805C154K5RACTU
		50	.18µF	±10%	0.9	399-3490-1-ND	7.57	44.72	129.00	399-3490-2-ND	4,000	124.00/M	C0805C184K5RACTU
		50	.22µF	±10%	0.9	399-3491-1-ND	2.01	11.90	34.31	399-3491-2-ND	4,000	33.00/M	C0805C224K5RACTU
		50	.22µF	±10%	0.9	399-5111-1-ND†	6.05	35.75	103.13	399-5111-2-ND†	2,500	94.00/M	C0805F224K5RACTU
		25	.1µF	±10%	0.9	399-1168-1-ND	.45	2.67	7.69	399-1168-2-ND	4,000	10.00/M	C0805C104K3RACTU
		25	.47µF	±10%	1.25	399-5112-1-ND†	6.05	35.75	103.13	399-5112-2-ND†	2,500	94.00/M	C0805F474K3RACTU
		25	.56µF	±10%	1.25	399-3492-1-ND	11.50	67.93	195.94	399-3492-2-ND	2,500	188.00/M	C0805C564K3RACTU
		16	.1µF	±10%	0.9	399-1167-1-ND	.83	4.88	14.06	399-1167-2-ND	4,000	19.00/M	C0805C104K4RACTU
		16	1µF	±10%	1.25	399-1284-1-ND	.95	5.59	16.13	399-1284-2-ND	2,500	22.00/M	C0805C105K4RACTU
		16	1.2µF	±10%	1.0	399-4927-1-ND	13.20	78.00	225.00	399-4927-2-ND	2,500	216.00/M	C0805C125K4RACTU
		16	1.5µF	±10%	1.25	399-4930-1-ND	13.20	78.00	225.00	399-4930-2-ND	2,500	216.00/M	C0805C155K4RACTU
		16	1.8µF	±10%	1.25	399-4933-1-ND	13.20	78.00	225.00	399-4933-2-ND	2,500	216.00/M	C0805C185K4RACTU
		16	2.2µF	±10%	1.25	399-3523-1-ND	4.95	29.25	84.38	399-3523-2-ND	2,500	81.00/M	C0805C225K4RACTU
		10	1µF	±10%	1.25	399-1172-1-ND	1.21	7.15	20.63	399-1172-2-ND	2,500	20.00/M	C0805C105K8RACTU
		10	1.2µF	±10%	1.0	399-4928-1-ND	10.45	61.75	178.13	399-4928-2-ND	2,500	171.00/M	C0805C125K8RACTU
		10	1.5µF	±10%	1.25	399-4931-1-ND	10.45	61.75	178.13	399-4931-2-ND	2,500	171.00/M	C0805C155K8RACTU
		10	1.8µF	±10%	1.25	399-4934-1-ND	10.45	61.75	178.13	399-4934-2-ND	2,500	171.00/M	C0805C185K8RACTU
		10	2.2µF	±10%	1.25	399-3522-1-ND	3.52	20.80	60.00	399-3522-2-ND	2,500	58.00/M	C0805C225K8RACTU
		6.3	1.2µF	±10%	1.0	399-4929-1-ND	10.45	61.75	178.13	399-4929-2-ND	2,500	171.00/M	C0805C125K9RACTU
		6.3	1.5µF	±10%	1.25	399-4932-1-ND	10.45	61.75	178.13	399-4932-2-ND	2,500	171.00/M	C0805C155K9RACTU
		6.3	1.8µF	±10%	1.25	399-4935-1-ND	10.45	61.75	178.13	399-4935-2-ND	2,500	171.00/M	C0805C185K9RACTU
		6.3	2.2µF	±10%	1.25	399-4936-1-ND	3.52	20.80	60.00	399-4936-2-ND	2,500	58.00/M	C0805C225K9RACTU
	X5R	10	1.2µF	±10%	0.9	399-3119-1-ND	4.51	26.65	76.88	399-3119-2-ND	4,000	74.00/M	C0805C125K8PACTU
		10	1.5µF	±10%	1.0	399-3121-1-ND	4.73	27.95	80.63	399-3121-2-ND	2,500	77.00/M	C0805C155K8PACTU
		10	1.8µF	±10%	1.25	399-3123-1-ND	4.95	29.25	84.38	399-3123-2-ND	4,000	81.00/M	C0805C185K8PACTU
		10	2.2µF	±10%	1.25	399-3125-1-ND	4.51	26.65	76.88	399-3125-2-ND	2,500	74.00/M	C0805C225K8PACTU
		10	2.7µF	±10%	0.9	399-3127-1-ND	7.02	41.47	119.63	399-3127-2-ND	4,000	115.00/M	C0805C275K8PACTU
		10	3.3µF	±10%	1.0	399-3129-1-ND	7.02	41.47	119.63	399-3129-2-ND	2,500	115.00/M	C0805C335K8PACTU
		10	3.9µF	±10%	1.25	399-3131-1-ND	7.02	41.47	119.63	399-3131-2-ND	2,500	115.00/M	C0805C395K8PACTU
		10	4.7µF	±10%	1.25	399-3133-1-ND	4.95	29.25	84.38	399-3133-2-ND	2,500	81.00/M	C0805C475K8PACTU
		10	10µF	±10%	1.25	399-4925-1-ND	13.20	78.00	225.00	399-4925-2-ND	2,500	216.00/M	C0805C106K8PACTU
		10	10µF	±20%	1.25	399-4926-1-ND	12.65	74.75	215.63	399-4926-2-ND	2,500	207.00/M	C0805C106M8PACTU
		6.3	1.2µF	±10%	0.9	399-3120-1-ND	4.51	26.65	76.88	399-3120-2-ND	4,000	74.00/M	C0805C125K9PACTU
		6.3	1.5µF	±10%	1.0	399-3122-1-ND	4.73	27.95	80.63	399-3122-2-ND	2,500	77.00/M	C0805C155K9PACTU
		6.3	1.8µF	±10%	1.25	399-3124-1-ND	4.95	29.25	84.38	399-3124-2-ND	2,500	81.00/M	C0805C185K9PACTU
		6.3	2.2µF	±10%	1.25	399-3126-1-ND	3.42	20.22	58.31	399-3126-2-ND	4,000	56.00/M	C0805C225K9PACTU
		6.3	3.3µF	±10%	1.0	399-3130-1-ND	7.02	41.47	119.63	399-3130-2-ND	2,500	115.00/M	C0805C335K9PACTU
		6.3	3.9µF	±10%	1.25	399-3132-1-ND	7.02	41.47	119.63	399-3132-2-ND	2,500	115.00/M	C0805C395K9PACTU
		6.3	4.7µF	±10%	1.25	399-3134-1-ND	5.61	33.15	95.63	399-3134-2-ND	2,500	92.00/M	C0805C475K9PACTU
		6.3	5.6µF	±10%	1.25	399-3135-1-ND	14.44	85.35	246.19	399-3135-2-ND	2,500	236.00/M	C0805C565K9PACTU
		6.3	6.8µF	±10%	1.25	399-3136-1-ND	14.44	85.35	246.19	399-3136-2-ND	2,500	236.00/M	C0805C685K9PACTU
		6.3	10µF	±10%	1.25	399-3138-1-ND	8.80	52.00	150.00	399-3138-2-ND	3,000	144.00/M	C0805C106K9PACTU
		6.3	22µF	±20%	1.25	399-4696-1-ND	27.50	162.50	468.75	399-4696-2-ND	2,500	450.00/M	C0805C226M9PACTU
	Y5V	50	.1µF	+80%, -20%	0.9	399-1177-1-ND	.57	3.38	9.75	399-1177-2-ND	4,000	13.00/M	C0805C104Z5VACTU
		25	1µF	+80%, -20%	1.25	399-1293-1-ND	5.94	35.10	101.25	399-1293-2-ND	2,500	97.00/M	C0805C105Z3VACTU
		16	1.5µF	+80%, -20%	1.25	399-1294-1-ND	6.53	38.61	111.38	399-1294-2-ND	2,500	107.00/M	C0805C155Z4VACTU
		16	2.2µF	+80%, -20%	1.25	399-1295-1-ND	7.18	42.45	122.44	399-1295-2-ND	2,500	118.00/M	C0805C225Z4VACTU
		10	3.3µF	+80%, -20%	1.0	399-3222-1-ND	9.24	54.60	157.50	399-3222-2-ND	2,500	151.00/M	C0805C335Z8VACTU
		10	4.7µF	+80%, -20%	1.25	399-3224-1-ND	10.34	61.10	176.25	399-3224-2-ND	2,500	169.00/M	C0805C475Z8VACTU
		6.3	3.3µF	+80%, -20%	1.0	399-3223-1-ND	9.24	54.60	157.50	399-3223-2-ND	2,500	151.00/M	C0805C335Z9VACTU
		6.3	4.7µF	+80%, -20%	1.25	399-3225-1-ND	10.34	61.10	176.25	399-3225-2-ND	2,500	169.00/M	C0805C475Z9VACTU
		6.3	6.8µF	+80%, -20%	1.25	399-3294-1-ND	11.99	70.85	204.38	—	—	—	C0805C685Z9VACTU
		6.3	10µF	+80%, -20%	1.25	399-3295-1-ND	10.89	64.35	185.63	399-3295-2-ND	3,000	178.00/M	C0805C106Z9VACTU
	Z5U	50	10000pF	+80%, -20%	0.78	399-1173-1-ND	.64	3.77	10.88	399-1173-2-ND	4,000	15.00/M	C0805C103Z5UACTU
		50	10000pF	±20%	0.78	399-1174-1-ND	.64	3.77	10.88	399-1174-2-ND	4,000	15.00/M	C0805C103M5UACTU
		50	.1µF	+80%, -20%	0.9	399-1175-1-ND	.75	4.42	12.75	399-1175-2-ND	4,000	17.00/M	C0805C104Z5UACTU
		50	.1µF	±20%	0.9	399-1176-1-ND	.59	3.51	10.13	399-1176-2-ND	4,000	14.00/M	C0805C104M5UACTU
1206	C0G (NP0)	500	330pF	±10%	1.653	399-5105-1-ND	14.07	83.14	239.81	399-5105-2-ND	2,000	217.00/M	C1206C331KCGACTU
		100	100pF	±5%	0.78	399-1206-1-ND	1.32	7.80	22.50	399-1206-2-ND	4,000	22.00/M	C1206C101J1GACTU
		100	470pF	±5%	0.78	399-1214-1-ND	5.46	32.24	93.00	399-1214-2-ND	4,000	89.00/M	C1206C471J1GACTU
		100	1000pF	±5%	0.78	399-1219-1-ND	3.85	22.75	65.63	399-1219-2-ND	4,000	63.00/M	C1206C102J1GACTU
		50	1pF	±0.25pF	0.78	399-1178-1-ND	7.28	43.03	124.13	399-1178-2-ND	4,000	119.00/M	C1206C109C5GACTU
		50	1.5pF	±0.25pF	0.78	399-1179-1-ND	7.28	43.03	124.13	399-1179-2-ND	4,000	119.00/M	C1206C159C5GACTU
		50	1.8pF	±0.25pF	0.78	399-1180-1-ND	7.28	43.03	124.13	399-1180-2-ND	4,000	119.00/M	C1206C189C5GACTU
		50	2.2pF	±0.25pF	0.78	399-1181-1-ND	7.28	43.03	124.13	399-1181-2-ND	4,000	119.00/M	C1206C229C5GACTU
		50	2.7pF	±0.25pF	0.78	399-1182-1-ND	7.28	43.03	124.13	399-1182-2-ND	4,000	119.00/M	C1206C279C5GACTU
		50	3.3pF	±0.25pF	0.78	399-1183-1-ND	7.28	43.03	124.13	399-1183-2-ND	4,000	119.00/M	C1206C339C5GACTU
		50	3.9pF	±0.25pF	0.78	399-1184-1-ND	7.28	43.03	124.13	399-1184-2-ND	4,000	119.00/M	C1206C399C5GACTU
		50	4.7pF	±0.25pF	0.78	399-1185-1-ND	7.28	43.03	124.13	399-1185-2-ND	4,000	119.00/M	C1206C479C5GACTU
		50	5.1pF	±0.25pF	0.78	399-1186-1-ND	10.54	62.27	179.63	399-1186-2-ND	4,000	172.00/M	C1206C519C5GACTU
		50	5.6pF	±0.25pF	0.78	399-1187-1-ND	8.78	51.87	149.63	399-1187-2-ND	4,000	144.00/M	C1206C569C5GACTU

† Open Mode/Fail Safe Termination

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							10	100	500		Qty.	Pricing	
1206	C0G (NP0)	50	6.8pF	±0.5pF	0.78	399-1188-1-ND	4.16	24.57	70.88	399-1188-2-ND	4,000	68.00/M	C1206C689D5GACTU
		50	7.5pF	±0.5pF	0.78	399-1189-1-ND	4.99	29.51	85.13	399-1189-2-ND	4,000	82.00/M	C1206C759D5GACTU
		50	8.2pF	±0.5pF	0.78	399-1190-1-ND	4.16	24.57	70.88	399-1190-2-ND	4,000	68.00/M	C1206C829D5GACTU
		50	9.1pF	±0.5pF	0.78	399-1191-1-ND	4.99	29.51	85.13	399-1191-2-ND	4,000	82.00/M	C1206C919D5GACTU
		50	10pF	±5%	0.78	399-1192-1-ND	1.71	10.08	29.06	399-1192-2-ND	4,000	28.00/M	C1206C100J5GACTU
		50	12pF	±5%	0.78	399-1193-1-ND	1.71	10.08	29.06	399-1193-2-ND	4,000	28.00/M	C1206C120J5GACTU
		50	15pF	±5%	0.78	399-1194-1-ND	1.71	10.08	29.06	399-1194-2-ND	4,000	28.00/M	C1206C150J5GACTU
		50	18pF	±5%	0.78	399-1195-1-ND	1.71	10.08	29.06	399-1195-2-ND	4,000	28.00/M	C1206C180J5GACTU
		50	20pF	±5%	0.78	399-1196-1-ND	4.99	29.51	85.13	399-1196-2-ND	4,000	82.00/M	C1206C200J5GACTU
		50	22pF	±5%	0.78	399-1197-1-ND	1.71	10.08	29.06	399-1197-2-ND	4,000	28.00/M	C1206C220J5GACTU
		50	27pF	±5%	0.78	399-1198-1-ND	1.71	10.08	29.06	399-1198-2-ND	4,000	28.00/M	C1206C270J5GACTU
		50	33pF	±5%	0.78	399-1199-1-ND	1.71	10.08	29.06	399-1199-2-ND	4,000	28.00/M	C1206C330J5GACTU
		50	39pF	±5%	0.78	399-1200-1-ND	4.16	24.57	70.88	399-1200-2-ND	4,000	68.00/M	C1206C390J5GACTU
		50	47pF	±5%	0.78	399-1201-1-ND	1.71	10.08	29.06	399-1201-2-ND	4,000	28.00/M	C1206C470J5GACTU
		50	51pF	±5%	0.78	399-1202-1-ND	4.99	29.51	85.13	399-1202-2-ND	4,000	82.00/M	C1206C510J5GACTU
		50	56pF	±5%	0.78	399-1203-1-ND	4.16	24.57	70.88	399-1203-2-ND	4,000	68.00/M	C1206C560J5GACTU
		50	68pF	±5%	0.78	399-1204-1-ND	4.16	24.57	70.88	399-1204-2-ND	4,000	68.00/M	C1206C680J5GACTU
		50	100pF	±5%	0.78	399-1205-1-ND	1.71	10.08	29.06	399-1205-2-ND	4,000	28.00/M	C1206C101J5GACTU
		50	120pF	±5%	0.78	399-1207-1-ND	4.16	24.57	70.88	399-1207-2-ND	4,000	68.00/M	C1206C121J5GACTU
		50	220pF	±10%	0.78	399-1208-1-ND	4.28	25.29	72.94	399-1208-2-ND	4,000	70.00/M	C1206C221K5GACTU
		50	270pF	±10%	0.78	399-1209-1-ND	4.39	25.94	74.81	399-1209-2-ND	4,000	72.00/M	C1206C271K5GACTU
		50	330pF	±10%	0.78	399-1210-1-ND	4.39	25.94	74.81	399-1210-2-ND	4,000	72.00/M	C1206C331K5GACTU
		50	390pF	±10%	0.78	399-1211-1-ND	4.51	26.65	76.88	399-1211-2-ND	4,000	74.00/M	C1206C391K5GACTU
		50	470pF	±5%	0.78	399-1213-1-ND	2.20	13.00	37.50	399-1213-2-ND	4,000	36.00/M	C1206C471J5GACTU
		50	470pF	±10%	0.78	399-1212-1-ND	4.51	26.65	76.88	399-1212-2-ND	4,000	74.00/M	C1206C471K5GACTU
		50	560pF	±10%	0.78	399-1215-1-ND	4.74	28.02	80.81	399-1215-2-ND	4,000	78.00/M	C1206C561K5GACTU
		50	680pF	±10%	0.78	399-1216-1-ND	4.97	29.38	84.75	399-1216-2-ND	4,000	81.00/M	C1206C681K5GACTU
		50	820pF	±10%	0.78	399-1217-1-ND	5.20	30.75	88.69	399-1217-2-ND	4,000	85.00/M	C1206C821K5GACTU
		50	1000pF	±5%	0.78	399-1218-1-ND	1.82	10.73	30.94	399-1218-2-ND	4,000	30.00/M	C1206C102J5GACTU
		50	4700pF	±5%	0.9	399-3503-1-ND	9.82	58.05	167.44	399-3503-2-ND	4,000	161.00/M	C1206C472J5GACTU
	X7R	2000	1000pF	±10%	1.65	399-4819-1-ND	17.84	105.43	304.13	399-4819-2-ND	2,000	292.00/M	C1206C102KGRACTU
		1500	470pF	±5%	1.65	399-5104-1-ND	18.15	107.25	309.38	399-5104-2-ND	2,000	281.00/M	C1206C471KFRACTU
		1000	1000pF	±10%	0.75	399-3437-1-ND	3.52	20.80	60.00	399-3437-2-ND	2,000	58.00/M	C1206C102KDRACTU
		1000	4700pF	±10%	1.65	399-4820-1-ND	3.73	22.04	63.56	399-4820-2-ND	2,000	61.00/M	C1206C472KDRACTU
		500	1000pF	±10%	1.15	399-3436-1-ND	4.40	26.00	75.00	399-3436-2-ND	2,000	72.00/M	C1206C102KCRACTU
		500	4700pF	±10%	1.65	399-5103-1-ND	15.18	89.70	258.75	399-5103-2-ND	2,000	235.00/M	C1206C472KCRACTU
		500	10000pF	±10%	1.4	399-3438-1-ND	8.25	48.75	140.63	399-3438-2-ND	2,000	135.00/M	C1206C103KCRACTU
		250	10000pF	±10%	0.78	399-4671-1-ND	7.85	46.41	133.88	399-4671-2-ND	4,000	129.00/M	C1206C103KARACTU
		250	22000µF	±10%	0.78	399-4672-1-ND	7.85	46.41	133.88	399-4672-2-ND	4,000	129.00/M	C1206C223KARACTU
		250	47000µF	±10%	1.0	399-4673-1-ND	8.25	48.75	140.63	399-4673-2-ND	2,500	135.00/M	C1206C473KARACTU
		250	.1µF	±10%	1.25	399-4674-1-ND	3.85	22.75	65.63	399-4674-2-ND	2,500	63.00/M	C1206C104KARACTU
		100	1000pF	±10%	0.78	399-1222-1-ND	1.87	11.05	31.88	399-1222-2-ND	4,000	31.00/M	C1206C102K1RACTU
		100	10000pF	±5%	0.78	399-1238-1-ND	1.98	11.70	33.75	399-1238-2-ND	4,000	32.00/M	C1206C103J1RACTU
		100	10000pF	±10%	0.78	399-1236-1-ND	1.32	7.80	22.50	399-1236-2-ND	4,000	22.00/M	C1206C103K1RACTU
		100	10000pF	±20%	0.78	399-1235-1-ND	1.32	7.80	22.50	399-1235-2-ND	4,000	22.00/M	C1206C103M1RACTU
		100	56000pF	±10%	0.78	399-1802-1-ND	5.54	32.76	94.50	399-1802-2-ND	4,000	91.00/M	C1206C563K1RACTU
		100	68000pF	±10%	0.78	399-1803-1-ND	6.01	35.49	102.38	399-1803-2-ND	4,000	98.00/M	C1206C683K1RACTU
		100	82000pF	±10%	0.78	399-1804-1-ND	6.31	37.31	107.63	399-1804-2-ND	4,000	103.00/M	C1206C823K1RACTU
		100	.1µF	±10%	0.78	399-1805-1-ND	2.37	13.98	40.31	399-1805-2-ND	4,000	39.00/M	C1206C104K1RACTU
		100	.1µF	±10%	0.78	399-5113-1-ND†	6.97	41.21	118.88	399-5113-2-ND†	4,000	114.00/M	C1206F104K1RACTU
		100	.27µF	±10%	1.25	399-3494-1-ND	13.21	78.07	225.19	399-3494-2-ND	2,500	216.00/M	C1206C274K1RACTU
		100	.39µF	±10%	1.6	399-3497-1-ND	15.98	94.45	272.44	399-3497-2-ND	2,000	262.00/M	C1206C394K1RACTU
		50	1000pF	±10%	0.78	399-1221-1-ND	1.32	7.80	22.50	399-1221-2-ND	4,000	22.00/M	C1206C102K5RACTU
		50	1200pF	±10%	0.78	399-1223-1-ND	3.30	19.50	56.25	399-1223-2-ND	4,000	54.00/M	C1206C122K5RACTU
		50	1500pF	±10%	0.78	399-1224-1-ND	3.30	19.50	56.25	399-1224-2-ND	4,000	54.00/M	C1206C152K5RACTU
		50	1800pF	±10%	0.78	399-1225-1-ND	3.30	19.50	56.25	399-1225-2-ND	4,000	54.00/M	C1206C182K5RACTU
		50	2200pF	±10%	0.78	399-1226-1-ND	1.71	10.08	29.06	399-1226-2-ND	4,000	28.00/M	C1206C222K5RACTU
		50	2700pF	±10%	0.78	399-1227-1-ND	3.30	19.50	56.25	399-1227-2-ND	4,000	54.00/M	C1206C272K5RACTU
		50	3300pF	±10%	0.78	399-1228-1-ND	3.30	19.50	56.25	399-1228-2-ND	4,000	54.00/M	C1206C332K5RACTU
		50	3900pF	±10%	0.78	399-1229-1-ND	3.30	19.50	56.25	399-1229-2-ND	4,000	54.00/M	C1206C392K5RACTU
		50	4700pF	±10%	0.78	399-1230-1-ND	1.71	10.08	29.06	399-1230-2-ND	4,000	28.00/M	C1206C472K5RACTU
		50	5600pF	±10%	0.78	399-1231-1-ND	3.30	19.50	56.25	399-1231-2-ND	4,000	54.00/M	C1206C562K5RACTU
		50	6800pF	±10%	0.78	399-1232-1-ND	3.30	19.50	56.25	399-1232-2-ND	4,000	54.00/M	C1206C682K5RACTU
		50	8200pF	±10%	0.78	399-1233-1-ND	3.30	19.50	56.25	399-1233-2-ND	4,000	54.00/M	C1206C822K5RACTU
		50	10000pF	±5%	0.78	399-1237-1-ND	1.65	9.75	28.13	399-1237-2-ND	4,000	27.00/M	C1206C103J5RACTU
		50	10000pF	±10%	0.78	399-1234-1-ND	1.21	7.15	20.63	399-1234-2-ND	4,000	20.00/M	C1206C103K5RACTU
		50	12000pF	±10%	0.78	399-1239-1-ND	3.74	22.10	63.75	399-1239-2-ND	4,000	61.00/M	C1206C123K5RACTU
		50	15000pF	±10%	0.78	399-1240-1-ND	3.74	22.10	63.75	399-1240-2-ND	4,000	61.00/M	C1206C153K5RACTU
		50	18000pF	±10%	0.78	399-1241-1-ND	3.74	22.10	63.75	399-1241-2-ND	4,000	61.00/M	C1206C183K5RACTU
		50	22000pF	±10%	0.78	399-1242-1-ND	1.65	9.75	28.13	399-1242-2-ND	4,000	27.00/M	C1206C223K5RACTU
		50	27000pF	±10%	0.78	399-1243-1-ND	3.74	22.10	63.75	399-1243-2-ND	4,000	61.00/M	C1206C273K5RACTU
		50	33000pF	±10%	0.78	399-1244-1-ND	3.74	22.10	63.75	399-1244-2-ND	4,000	61.00/M	C1206C333K5RACTU
		50	39000pF	±10%	0.78	399-1245-1-ND	3.85	22.75	65.63	399-1245-2-ND	4,000	63.00/M	C1206C393K5RACTU
		50	47000pF	±10%	0.78	399-1246-1-ND	1.34	7.93	22.88	399-1246-2-ND	4,000	22.00/M	C1206C473K5RACTU
		50	68000pF	±5%	0.78	399-1247-1-ND	4.03	23.79	68.63	399-1247-2-ND	4,000	66.00/M	C1206C683J5RACTU
		50	.1µF	±5%	0.78	399-1250-1-ND	2.53	14.95	43.13	399-1250-2-ND	4,000	41.00/M	C1206C104J5RACTU
		50	.1µF	±10%	0.78	399-1249-1-ND	.72	4.23	12.19	399-1249-2-ND	4,000	16.00/M	C1206C104K5RACTU
		50	.1µF	±20%	0.78	399-1248-1-ND	.72	4.23	12.19	399-1248-2-ND	4,000	16.00/M	C1206C104M5RACTU
		50	.22µF	±5%	0.9	399-1252-1-ND	13.75	81.25	234.38	399-1252-2-ND	2,500	225.00/M	C1206C224J5RACTU
		50	.22µF	±10%	0.9	399-1251-1-ND	2.51	14.82	42.75	399-1251-2-ND	2,500	41.00/M	C1206C224K5RACTU
		50	.22µF	±10%	0.9	399-5114-1-ND†	9.71	57.40	165.56	399-5114-2-ND†	4,000	159.00/M	C1206F224K5RACTU
		50	.27µF	±10%	0.9	399-3493-1-ND	9.35	55.25	159.38	399-3493-2-ND	4,000	153.00/M	C1206C274K5RACTU
		50	.33µF	±10%	0.9	399-3495-1-ND	9.90	58.50	168.75	399-3495-2-ND	4,000	162.00/M	C1206C334K5RACTU
		50	.39µF	±10%	0.9	399-3496-1-ND	10.45	61.75	178.13	399-3496-2-ND	4,000	171.00/M	C1206C394K5RACTU
		50	.47µF	±10%	0.9	399-3498-1-ND	4.64	27.43	79.13	399-3498-2-ND	4,000	76.00/M	C1206C474K5RACTU
		50	.56µF	±10%	0.9	399-3499-1-ND	12.71	75.08	216.56	399-3499-2-ND	4,000	208.00/M	C1206C564K5RACTU
		50	.68µF	±10%	1.0	399-3500-1-ND	16.34	96.53	278.44	399-3500-2-ND	2,500	267.00/M	C1206C684K5RACTU
		50	1µF	±10%	1.0	399-5115-1-ND†	9.68	57.20	165.00	399-5115-2-ND†	2,000	150.00/M	C1206F105K5RACTU
		25	.33µF	±10%	0.78	399-1285-1-ND	3.51	20.74	59.81	399-1285-2-ND	4,000	57.00/M	C1206C334K3RACTU
		25	1µF	±10%	1.6	399-1255-1-ND	1.88	11.12	32.06	399-1255-2-ND	2,000	31.00/M	C1206C105K3RACTU
		25	1.2µF	±10%	1.6	399-3501-1-ND	14.74	87.10	251.25	399-3501-2-ND	2,000	241.00/M	C1206C125K3RACTU
		25	1.5µF	±10%	1.6	399-3502-1-ND	15.62	92.30	266.25	399-3502-2-ND	2,000	256.00/M	C1206C155K3RACTU
		16	.33µF	±10%	0.78	399-1253-1-ND	9.90	58.50	168.75	399-1253-2-ND	4,000	162.00/M	C1206C334K4RACTU
		16	1µF	±10%	1.1	399-1254-1-ND	2.08	12.29	35.44	399-1254-2-ND	2,500	34.00/M	C1206C105K4RACTU
		16	1.2µF	±10%	1.0	399-1286-1-ND	14.30	84.50	243.75	399-1286-2-ND	4,000	234.00/M	C1206C125K4RACTU
		16	2.2µF	±10%	1.6	399-1257-1-ND	4.73	27.95	80.63	399-1257-2-ND	2,000	77.00/M	C1206C225K4RACTU
		16	2.7µF	±10%	0.8	399-4941-1-ND	17.60	104.00	300.00	399-4941-2-ND	2,000	288.00/M	C1206C275K4RACTU
		16	3.3µF	±10%	1.0	399-4944-1-ND	18.70	110.50	318.75	399-4944-2-ND	2,500	306.00/M	C1206C335K4RACTU
		16	3.9µF	±10%	1.15	399-4947-1-ND	18.70	110.50	318.75	399-4947-2-ND	2,000	306.00/M	C1206C395K4RACTU

† Open Mode/Fail Safe Termination

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							10	100	500		Qty.	Pricing	
1206	X7R	16	4.7µF	±10%	1.25	399-3524-1-ND	19.80	117.00	337.50	399-3524-2-ND	2,500	324.00/M	C1206C475K4RACTU
		16	5.6µF	±10%	1.6	399-4952-1-ND	20.90	123.50	356.25	399-4952-2-ND	2,000	342.00/M	C1206C565K4RACTU
		16	6.8µF	±10%	1.6	399-4955-1-ND	22.00	130.00	375.00	399-4955-2-ND	2,000	360.00/M	C1206C685K4RACTU
		16	8.2µF	±20%	1.6	399-4960-1-ND	23.10	136.50	393.75	399-4960-2-ND	2,000	378.00/M	C1206C825M4RACTU
		16	10µF	±10%	1.6	399-3525-1-ND	25.30	149.50	431.25	399-3525-2-ND	2,000	414.00/M	C1206C106K4RACTU
		16	10µF	±20%	1.6	399-4939-1-ND	24.20	143.00	412.50	399-4939-2-ND	2,000	396.00/M	C1206C106M4RACTU
		10	1.2µF	±10%	1.0	399-1256-1-ND	14.30	84.50	243.75	399-1256-2-ND	4,000	234.00/M	C1206C125K8RACTU
		10	2.7µF	±10%	0.95	399-4942-1-ND	17.60	104.00	300.00	399-4942-2-ND	2,000	288.00/M	C1206C275K8RACTU
		10	3.3µF	±10%	1.0	399-4945-1-ND	18.70	110.50	318.75	399-4945-2-ND	2,500	306.00/M	C1206C335K8RACTU
		10	3.9µF	±10%	1.15	399-4948-1-ND	18.70	110.50	318.75	399-4948-2-ND	2,500	306.00/M	C1206C395K8RACTU
		10	4.7µF	±10%	1.25	399-4950-1-ND	6.60	39.00	112.50	399-4950-2-ND	2,500	108.00/M	C1206C475K8RACTU
		10	5.6µF	±10%	1.6	399-4953-1-ND	19.80	117.00	337.50	399-4953-2-ND	2,000	324.00/M	C1206C565K8RACTU
		10	6.8µF	±10%	1.6	399-4956-1-ND	20.90	123.50	356.25	399-4956-2-ND	2,000	342.00/M	C1206C685K8RACTU
		10	8.2µF	±10%	1.6	399-4958-1-ND	22.00	130.00	375.00	399-4958-2-ND	2,000	360.00/M	C1206C825K8RACTU
		10	10µF	±10%	1.6	399-4937-1-ND	6.82	40.30	116.25	399-4937-2-ND	2,000	112.00/M	C1206C106K8RACTU
		6.3	2.7µF	±10%	0.95	399-4943-1-ND	17.60	104.00	300.00	399-4943-2-ND	2,000	288.00/M	C1206C275K9RACTU
		6.3	3.3µF	±10%	1.0	399-4946-1-ND	18.70	110.50	318.75	399-4946-2-ND	2,500	306.00/M	C1206C335K9RACTU
		6.3	3.9µF	±10%	1.15	399-4949-1-ND	18.70	110.50	318.75	399-4949-2-ND	2,500	306.00/M	C1206C395K9RACTU
		6.3	4.7µF	±10%	1.25	399-4951-1-ND	6.60	39.00	112.50	399-4951-2-ND	2,500	108.00/M	C1206C475K9RACTU
		6.3	5.6µF	±10%	1.6	399-4954-1-ND	19.80	117.00	337.50	399-4954-2-ND	2,000	324.00/M	C1206C565K9RACTU
		6.3	6.8µF	±10%	1.6	399-4957-1-ND	20.90	123.50	356.25	399-4957-2-ND	2,000	342.00/M	C1206C685K9RACTU
		6.3	8.2µF	±10%	1.6	399-4959-1-ND	22.00	130.00	375.00	399-4959-2-ND	2,000	360.00/M	C1206C825K9RACTU
		6.3	10µF	±10%	1.6	399-4938-1-ND	6.82	40.30	116.25	399-4938-2-ND	2,000	112.00/M	C1206C106K9RACTU
	X5R	25	2.7µF	±10%	1.2	399-3139-1-ND	9.90	58.50	168.75	399-3139-2-ND	2,500	162.00/M	C1206C275K3PACTU
		25	3.3µF	±10%	1.6	399-3140-1-ND	11.00	65.00	187.50	399-3140-2-ND	2,000	180.00/M	C1206C335K3PACTU
		25	3.9µF	±10%	1.6	399-3141-1-ND	11.00	65.00	187.50	399-3141-2-ND	2,000	180.00/M	C1206C395K3PACTU
		25	4.7µF	±10%	1.6	399-3142-1-ND	8.25	48.75	140.63	399-3142-2-ND	2,000	135.00/M	C1206C475K3PACTU
		16	2.2µF	±10%	1.1	399-1263-1-ND	8.80	52.00	150.00	399-1263-2-ND	2,500	144.00/M	C1206C225K4PACTU
		16	3.3µF	±10%	1.6	399-1264-1-ND	11.00	65.00	187.50	399-1264-2-ND	2,000	180.00/M	C1206C335K4PACTU
		16	4.7µF	±10%	1.6	399-1265-1-ND	8.64	51.03	147.19	399-1265-2-ND	2,000	141.00/M	C1206C475K4PACTU
		16	10µF	±10%	1.6	399-5091-1-ND	4.73	27.95	80.63	399-5091-2-ND	2,000	73.00/M	C1206C106K4PACTU
		6.3	6.8µF	±10%	1.6	399-3025-1-ND	14.96	88.40	255.00	399-3025-2-ND	2,000	245.00/M	C1206C685K9PACTU
		6.3	10µF	±10%	1.6	399-3029-1-ND	7.15	42.25	121.88	399-3029-2-ND	2,000	117.00/M	C1206C106K9PACTU
		6.3	18µF	±10%	1.6	399-3228-1-ND	23.65	139.75	403.13	—	—	—	C1206C186K9PACTU
		6.3	22µF	±10%	1.6	399-3229-1-ND	17.60	104.00	300.00	399-3229-2-ND	2,000	288.00/M	C1206C226K9PACTU
		6.3	47µF	±20%	1.6	399-4695-1-ND	44.00	260.00	750.00	399-4695-2-ND	2,000	720.00/M	C1206C476M9PACTU
	Y5V	25	1µF	+80%, -20%	0.78	399-1296-1-ND	6.16	36.40	105.00	399-1296-2-ND	2,000	101.00/M	C1206C105Z3VACTU
		16	1.5µF	+80%, -20%	0.9	399-1297-1-ND	8.25	48.75	140.63	399-1297-2-ND	4,000	135.00/M	C1206C155Z4VACTU
		16	2.2µF	+80%, -20%	1.0	399-1260-1-ND	2.75	16.25	46.88	399-1260-2-ND	2,500	45.00/M	C1206C225Z4VACTU
		16	3.3µF	+80%, -20%	1.2	399-1261-1-ND	9.35	55.25	159.38	399-1261-2-ND	2,500	153.00/M	C1206C335Z4VACTU
		16	4.7µF	+80%, -20%	1.7	399-1262-1-ND	3.30	19.50	56.25	399-1262-2-ND	2,500	54.00/M	C1206C475Z4VACTU
		10	6.8µF	+80%, -20%	1.7	399-1298-1-ND	13.07	77.22	222.75	399-1298-2-ND	2,000	214.00/M	C1206C685Z8VACTU
		10	10µF	+80%, -20%	1.7	399-1299-1-ND	2.34	13.85	39.94	399-1299-2-ND	2,000	38.00/M	C1206C106Z8VACTU
		6.3	22µF	+80%, -20%	1.7	399-3028-1-ND	25.85	152.75	440.63	399-3028-2-ND	2,000	423.00/M	C1206C226Z9VACTU
	Z5U	50	.1µF	+80%, -20%	0.78	399-1258-1-ND	1.21	7.15	20.63	399-1258-2-ND	4,000	20.00/M	C1206C104Z5UACTU
		50	.1µF	±20%	0.78	399-1259-1-ND	1.21	7.15	20.63	399-1259-2-ND	4,000	20.00/M	C1206C104M5UACTU
1210	C0G (NP0)	50	10000pF	±5%	1.1	399-1266-1-ND	34.77	205.47	592.69	399-1266-2-ND	2,500	569.00/M	C1210C103J5GACTU
	X7R	2000	100pF	±10%	1.4	399-3439-1-ND	13.20	78.00	225.00	399-3439-2-ND	2,000	216.00/M	C1210C101KGRACTU
		2000	680pF	±10%	1.3	399-3441-1-ND	13.20	78.00	225.00	399-3441-2-ND	2,000	216.00/M	C1210C681KGRACTU
		2000	1800pF	±5%	2.57	399-4821-1-ND	29.50	174.33	502.88	399-4821-2-ND	2,000	483.00/M	C1210C182JGRACTU
		2000	2200pF	±5%	2.57	399-4822-1-ND	29.50	174.33	502.88	399-4822-2-ND	1,500	483.00/M	C1210C222JGRACTU
		1500	220pF	±10%	1.4	399-3440-1-ND	13.20	78.00	225.00	399-3440-2-ND	2,000	216.00/M	C1210C221KFRACTU
		1000	10000pF	±5%	2.03	399-5106-1-ND	26.70	157.76	455.06	399-5106-2-ND	2,000	413.00/M	C1210C103JDRACTU
		250	10000pF	±10%	0.78	399-4675-1-ND	13.86	81.90	236.25	399-4675-2-ND	4,000	227.00/M	C1210C103KARACTU
		250	.1µF	±10%	1.25	399-4676-1-ND	16.86	99.65	287.44	399-4676-2-ND	2,500	276.00/M	C1210C104KARACTU
		100	.1µF	±10%	0.95	399-1268-1-ND	4.07	24.05	69.38	399-1268-2-ND	4,000	67.00/M	C1210C104K1RACTU
		50	.1µF	±10%	0.78	399-1267-1-ND	3.63	21.45	61.88	399-1267-2-ND	4,000	59.00/M	C1210C104K5RACTU
		50	.22µF	±10%	0.9	399-1269-1-ND	4.40	26.00	75.00	399-1269-2-ND	4,000	72.00/M	C1210C224K5RACTU
		50	.39µF	±10%	0.95	399-3087-1-ND	18.15	107.25	309.38	399-3087-2-ND	4,000	297.00/M	C1210C394K5RACTU
		50	.47µF	±10%	0.95	399-3089-1-ND	18.15	107.25	309.38	399-3089-2-ND	4,000	297.00/M	C1210C474K5RACTU
		50	.56µF	±10%	0.95	399-3091-1-ND	18.15	107.25	309.38	399-3091-2-ND	4,000	297.00/M	C1210C564K5RACTU
		50	.68µF	±10%	0.95	399-3092-1-ND	18.15	107.25	309.38	399-3092-2-ND	4,000	297.00/M	C1210C684K5RACTU
		50	.82µF	±10%	1.1	399-3093-1-ND	19.80	117.00	337.50	399-3093-2-ND	2,500	324.00/M	C1210C824K5RACTU
		50	1µF	±10%	1.55	399-3076-1-ND	6.88	40.63	117.19	399-3076-2-ND	2,000	113.00/M	C1210C105K5RACTU
		50	1µF	±10%	1.55	399-5116-1-ND†	19.21	113.49	327.38	399-5116-2-ND†	2,000	297.00/M	C1210F105K5RACTU
		25	1.2µF	±10%	1.55	399-3078-1-ND	19.80	117.00	337.50	399-3078-2-ND	4,000	324.00/M	C1210C125K3RACTU
		25	1.5µF	±10%	1.55	399-3080-1-ND	19.80	117.00	337.50	399-3080-2-ND	2,000	324.00/M	C1210C155K3RACTU
		25	1.8µF	±10%	1.55	399-3082-1-ND	16.50	97.50	281.25	399-3082-2-ND	2,000	270.00/M	C1210C185K3RACTU
		25	2.2µF	±10%	1.85	399-3084-1-ND	16.50	97.50	281.25	399-3084-2-ND	2,000	270.00/M	C1210C225K3RACTU
	X5R	25	1.2µF	±10%	0.95	399-3077-1-ND	9.35	55.25	159.38	399-3077-2-ND	2,000	153.00/M	C1210C125K3PACTU
		25	1.5µF	±10%	0.95	399-3079-1-ND	9.35	55.25	159.38	399-3079-2-ND	2,000	153.00/M	C1210C155K3PACTU
		25	1.8µF	±10%	0.95	399-3081-1-ND	9.35	55.25	159.38	399-3081-2-ND	4,000	153.00/M	C1210C185K3PACTU
		25	2.2µF	±10%	1.25	399-3083-1-ND	11.00	65.00	187.50	399-3083-2-ND	2,500	180.00/M	C1210C225K3PACTU
		25	2.7µF	±10%	1.25	399-3143-1-ND	14.85	87.75	253.13	399-3143-2-ND	2,500	243.00/M	C1210C275K3PACTU
		25	3.3µF	±10%	1.55	399-3144-1-ND	14.85	87.75	253.13	399-3144-2-ND	2,000	243.00/M	C1210C335K3PACTU
		25	3.9µF	±10%	1.85	399-3145-1-ND	18.15	107.25	309.38	399-3145-2-ND	2,000	297.00/M	C1210C395K3PACTU
		25	4.7µF	±10%	2.1	399-3146-1-ND	18.15	107.25	309.38	399-3146-2-ND	2,000	297.00/M	C1210C475K3PACTU
		16	2.7µF	±10%	1.25	399-3085-1-ND	14.85	87.75	253.13	399-3085-2-ND	2,500	243.00/M	C1210C275K4PACTU
		16	3.3µF	±10%	1.55	399-3086-1-ND	14.85	87.75	253.13	399-3086-2-ND	2,000	243.00/M	C1210C335K4PACTU
		16	3.9µF	±10%	1.85	399-3088-1-ND	18.15	107.25	309.38	399-3088-2-ND	2,000	297.00/M	C1210C395K4PACTU
		16	4.7µF	±10%	2.1	399-3090-1-ND	18.15	107.25	309.38	399-3090-2-ND	2,000	297.00/M	C1210C475K4PACTU
		16	5.6µF	±10%	1.85	399-3147-1-ND	24.20	143.00	412.50	399-3147-2-ND	2,500	396.00/M	C1210C565K4PACTU
		16	6.8µF	±10%	1.85	399-1288-1-ND	24.20	143.00	412.50	399-1288-2-ND	2,000	396.00/M	C1210C685K4PACTU
		16	8.2µF	±10%	2.1	399-3149-1-ND	24.20	143.00	412.50	399-3149-2-ND	1,800	396.00/M	C1210C825K4PACTU
		16	10µF	±10%	2.1	399-3150-1-ND	36.30	214.50	618.75	399-3150-2-ND	2,000	594.00/M	C1210C106K4PACTU
		16	22µF	±10%	1.85	399-5092-1-ND	26.40	156.00	450.00	399-5092-2-ND	2,000	408.00/M	C1210C226K4PACTU
		10	4.7µF	±10%	2.1	399-1273-1-ND	18.15	107.25	309.38	399-1273-2-ND	2,000	297.00/M	C1210C475K8PACTU
		10	6.8µF	±10%	1.85	399-1274-1-ND	24.20	143.00	412.50	399-1274-2-ND	2,000	396.00/M	C1210C685K8PACTU
		10	10µF	±10%	2.1	399-1275-1-ND	36.30	214.50	618.75	399-1275-2-ND	2,000	594.00/M	C1210C106K8PACTU
		10	12µF	±10%	0.95	399-3296-1-ND	23.10	136.50	393.75	399-3296-2-ND	4,000	378.00/M	C1210C126K8PACTU
		10	15µF	±10%	0.95	399-3298-1-ND	24.20	143.00	412.50	399-3298-2-ND	2,500	396.00/M	C1210C156K8PACTU
		10	18µF	±10%	1.4	399-3300-1-ND	25.30	149.50	431.25	399-3300-2-ND	2,500	414.00/M	C1210C186K8PACTU
		10	22µF	±10%	1.55	399-3302-1-ND	26.40	156.00	450.00	399-3302-2-ND	2,000	432.00/M	C1210C226K8PACTU
		6.3	12µF	±10%	0.95	399-3297-1-ND	23.10	136.50	393.75	399-3297-2-ND	2,500	378.00/M	C1210C126K9PACTU
		6.3	15µF	±10%	0.95	399-3299-1-ND	24.20	143.00	412.50	399-3299-2-ND	2,500	396.00/M	C1210C156K9PACTU

† Open Mode/Fail Safe Termination

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							10	100	500		Qty.	Pricing	
1210	X5R	6.3	18µF	±10%	1.4	399-3301-1-ND	25.30	149.50	431.25	399-3301-2-ND	2,500	414.00/M	C1210C186K9PACTU
		6.3	22µF	±10%	1.55	399-3303-1-ND	20.90	123.50	356.25	399-3303-2-ND	2,000	342.00/M	C1210C226K9PACTU
		6.3	47µF	±20%	2.5	399-4961-1-ND	33.00	195.00	562.50	399-4961-2-ND	1,500	540.00/M	C1210C476M9PACTU
		6.3	100µF	±20%	2.1	399-4697-1-ND	105.60	624.00	1800.00	399-4697-2-ND	1,500	1728.00/M	C1210C107M9PACTU
	Y5V	16	4.7µF	+80%, -20%	1.25	399-1270-1-ND	15.40	91.00	262.50	399-1270-2-ND	2,500	252.00/M	C1210C475Z4VACTU
		16	6.8µF	+80%, -20%	1.55	399-1271-1-ND	18.70	110.50	318.75	399-1271-2-ND	2,500	306.00/M	C1210C685Z4VACTU
		16	10µF	+80%, -20%	1.85	399-1272-1-ND	8.69	51.35	148.13	399-1272-2-ND	2,000	142.00/M	C1210C106Z4VACTU
		10	15µF	+80%, -20%	1.85	399-1300-1-ND	26.13	154.38	445.31	399-1300-2-ND	2,500	428.00/M	C1210C156Z8VACTU
		10	22µF	+80%, -20%	2.1	399-1301-1-ND	19.80	117.00	337.50	399-1301-2-ND	1,500	324.00/M	C1210C226Z8VACTU
1808	C0G (NP0)	2500	160pF	±5%	2.03	399-4824-1-ND	41.80	247.00	712.50	399-4824-2-ND	1,000	684.00	C1808C161JZGACTU
		2500	180pF	±5%	2.03	399-4825-1-ND	41.80	247.00	712.50	399-4825-2-ND	1,000	684.00	C1808C181JZGACTU
		2500	200pF	±5%	2.03	399-4826-1-ND	41.80	247.00	712.50	399-4826-2-ND	1,000	684.00	C1808C201JZGACTU
		2500	220pF	±5%	2.03	399-4827-1-ND	42.90	253.50	731.25	399-4827-2-ND	1,000	702.00	C1808C221JZGACTU
		2500	240pF	±5%	2.03	399-4828-1-ND	42.90	253.50	731.25	399-4828-2-ND	1,000	702.00	C1808C241JZGACTU
		2500	270pF	±5%	2.03	399-4829-1-ND	42.90	253.50	731.25	399-4829-2-ND	1,000	702.00	C1808C271JZGACTU
		2500	300pF	±5%	2.03	399-4831-1-ND	42.90	253.50	731.25	399-4831-2-ND	1,000	702.00	C1808C301JZGACTU
		2500	330pF	±5%	2.03	399-4832-1-ND	42.90	253.50	731.25	399-4832-2-ND	1,000	702.00	C1808C331JZGACTU
	X7R	3000	100pF	±10%	1.4	399-3442-1-ND	18.70	110.50	318.75	399-3442-2-ND	1,000	306.00	C1808C101KHRACTU
		2000	1000pF	±10%	1.65	399-3443-1-ND	20.35	120.25	346.88	399-3443-2-ND	1,000	333.00	C1808C102KGRACTU
		2000	2700pF	±10%	2.03	399-4830-1-ND	36.08	213.20	615.00	399-4830-2-ND	1,000	590.00	C1808C272KGRACTU
		1000	10000pF	±10%	1.9	399-3444-1-ND	18.70	110.50	318.75	399-3444-2-ND	1,000	306.00	C1808C103KDRACTU
		1000	15000pF	±10%	2.03	399-4823-1-ND	32.55	192.34	554.81	399-4823-2-ND	1,000	533.00	C1808C153KDRACTU
1812	C0G (NP0)	2500	240pF	±5%	1.7	399-4835-1-ND	50.60	299.00	862.50	399-4835-2-ND	1,000	828.00	C1812C241JZGACTU
		2500	270pF	±5%	1.7	399-4836-1-ND	50.60	299.00	862.50	399-4836-2-ND	1,000	828.00	C1812C271JZGACTU
		2500	300pF	±5%	1.7	399-4837-1-ND	50.60	299.00	862.50	399-4837-2-ND	1,000	828.00	C1812C301JZGACTU
		2500	330pF	±5%	1.7	399-4838-1-ND	51.70	305.50	881.25	399-4838-2-ND	1,000	846.00	C1812C331JZGACTU
		2500	360pF	±5%	1.7	399-4840-1-ND	51.70	305.50	881.25	399-4840-2-ND	1,000	846.00	C1812C361JZGACTU
		2500	390pF	±5%	1.7	399-4841-1-ND	51.70	305.50	881.25	399-4841-2-ND	1,000	846.00	C1812C391JZGACTU
		2500	430pF	±5%	1.7	399-4843-1-ND	52.80	312.00	900.00	399-4843-2-ND	1,000	864.00	C1812C431JZGACTU
		2500	470pF	±5%	1.7	399-4844-1-ND	52.80	312.00	900.00	399-4844-2-ND	1,000	864.00	C1812C471JZGACTU
		1000	1000pF	±10%	1.4	399-3445-1-ND	18.15	107.25	309.38	399-3445-2-ND	1,000	297.00	C1812C102KDGACTU
	X7R	3000	1000pF	±10%	1.65	399-3448-1-ND	21.45	126.75	365.63	399-3448-2-ND	1,000	351.00	C1812C102KHRACTU
		2000	1000pF	±10%	1.65	399-3447-1-ND	18.15	107.25	309.38	399-3447-2-ND	1,000	297.00	C1812C102KGRACTU
		2000	3300pF	±10%	1.7	399-4839-1-ND	38.64	228.35	658.69	399-4839-2-ND	1,000	632.00	C1812C332KGRACTU
		2000	3900pF	±10%	1.7	399-4842-1-ND	38.67	228.48	659.06	399-4842-2-ND	1,000	633.00	C1812C392KGRACTU
		1000	1000pF	±10%	1.0	399-3446-1-ND	15.40	91.00	262.50	399-3446-2-ND	1,000	252.00	C1812C102KDRACTU
		1000	4700pF	±10%	1.0	399-3452-1-ND	15.95	94.25	271.88	399-3452-2-ND	1,000	261.00	C1812C472KDRACTU
		1000	10000pF	±10%	1.5	399-3450-1-ND	16.50	97.50	281.25	399-3450-2-ND	1,000	270.00	C1812C103KDRACTU
		1000	18000pF	±10%	1.7	399-4833-1-ND	34.86	205.99	594.19	399-4833-2-ND	1,000	570.00	C1812C183KDRACTU
		1000	22000pF	±10%	1.7	399-4834-1-ND	34.88	206.12	594.56	399-4834-2-ND	1,000	571.00	C1812C223KDRACTU
		500	10000pF	±10%	1.15	399-3449-1-ND	14.85	87.75	253.13	399-3449-2-ND	1,000	243.00	C1812C103KCRACTU
		500	47000pF	±10%	1.65	399-3453-1-ND	16.50	97.50	281.25	399-3453-2-ND	1,000	270.00	C1812C473KCRACTU
		250	.1µF	±5%	1.0	399-4677-1-ND	41.80	247.00	712.50	399-4677-2-ND	1,000	684.00	C1812C104JARACTU
		250	.1µF	±10%	1.0	399-4678-1-ND	27.82	164.39	474.19	399-4678-2-ND	1,000	455.00	C1812C104KARACTU
		250	.22µF	±5%	1.5	399-4679-1-ND	43.89	259.35	748.13	399-4679-2-ND	1,000	718.00	C1812C224JARACTU
		250	.22µF	±10%	1.5	399-4680-1-ND	29.21	172.58	497.81	399-4680-2-ND	1,000	478.00	C1812C224KARACTU
		250	.33µF	±5%	1.5	399-4681-1-ND	43.89	259.35	748.13	399-4681-2-ND	1,000	718.00	C1812C334JARACTU
		250	.33µF	±10%	1.5	399-4682-1-ND	29.21	172.58	497.81	399-4682-2-ND	1,000	478.00	C1812C334KARACTU
		250	.47µF	±5%	1.7	399-4683-1-ND	43.89	259.35	748.13	399-4683-2-ND	1,000	718.00	C1812C474JARACTU
		250	.47µF	±10%	1.7	399-4684-1-ND	29.21	172.58	497.81	399-4684-2-ND	1,000	478.00	C1812C474KARACTU
		50	.47µF	±10%	1.0	399-3454-1-ND	20.68	122.20	352.50	399-3454-2-ND	1,000	338.00	C1812C474K5RACTU
		50	.68µF	±10%	1.1	399-3455-1-ND	26.62	157.30	453.75	399-3455-2-ND	1,000	436.00	C1812C684K5RACTU
		50	1µF	±10%	1.3	399-3451-1-ND	22.00	130.00	375.00	399-3451-2-ND	1,000	360.00	C1812C105K5RACTU
1825	C0G (NP0)	2500	510pF	±5%	1.7	399-4847-1-ND	101.20	598.00	1725.00	399-4847-2-ND	1,000	1656.00	C1825C511JZGACTU
		2500	560pF	±5%	1.7	399-4848-1-ND	101.20	598.00	1725.00	399-4848-2-ND	1,000	1656.00	C1825C561JZGACTU
		2500	620pF	±5%	1.7	399-4849-1-ND	101.20	598.00	1725.00	399-4849-2-ND	1,000	1656.00	C1825C621JZGACTU
		2500	680pF	±5%	1.7	399-4850-1-ND	101.20	598.00	1725.00	399-4850-2-ND	1,000	1656.00	C1825C681JZGACTU
		2500	750pF	±5%	1.7	399-4851-1-ND	103.40	611.00	1762.50	399-4851-2-ND	1,000	1692.00	C1825C751JZGACTU
		2500	820pF	±5%	1.7	399-4852-1-ND	103.40	611.00	1762.50	399-4852-2-ND	1,000	1692.00	C1825C821JZGACTU
		2500	910pF	±5%	1.7	399-4854-1-ND	103.40	611.00	1762.50	399-4854-2-ND	1,000	1692.00	C1825C911JZGACTU
		2500	1000pF	±5%	1.7	399-4845-1-ND	103.40	611.00	1762.50	399-4845-2-ND	1,000	1692.00	C1825C102JZGACTU
	X7R	2000	8200pF	±10%	1.7	399-4853-1-ND	81.13	479.38	1382.81	399-4853-2-ND	1,000	1328.00	C1825C822KGRACTU
		1000	47000pF	±10%	1.7	399-4846-1-ND	73.15	432.25	1246.88	399-4846-2-ND	1,000	1197.00	C1825C473KDRACTU
		250	.47µF	±10%	1.3	399-4685-1-ND	60.50	357.50	1031.25	399-4685-2-ND	1,000	990.00	C1825C474KARACTU
		250	.68µF	±10%	1.3	399-4686-1-ND	60.50	357.50	1031.25	399-4686-2-ND	1,000	990.00	C1825C684KARACTU
		250	1µF	±10%	1.5	399-4687-1-ND	60.50	357.50	1031.25	399-4687-2-ND	1,000	990.00	C1825C105KARACTU
		50	.47µF	±10%	1.1	399-3457-1-ND	54.45	321.75	928.13	399-3457-2-ND	1,000	891.00	C1825C474K5RACTU
		50	1µF	±10%	1.1	399-3456-1-ND	60.50	357.50	1031.25	399-3456-2-ND	1,000	990.00	C1825C105K5RACTU
2220	C0G (NP0)	2500	620pF	±5%	1.7	399-4857-1-ND	167.20	988.00	2850.00	399-4857-2-ND	1,000	2736.00	C2220C621JZGACTU
		2500	680pF	±5%	1.7	399-4858-1-ND	167.20	988.00	2850.00	399-4858-2-ND	1,000	2736.00	C2220C681JZGACTU
		2500	750pF	±5%	1.7	399-4859-1-ND	168.30	994.50	2868.75	399-4859-2-ND	1,000	2754.00	C2220C751JZGACTU
		2500	820pF	±5%	1.7	399-4860-1-ND	168.30	994.50	2868.75	399-4860-2-ND	1,000	2754.00	C2220C821JZGACTU
		2500	910pF	±5%	1.7	399-4862-1-ND	168.30	994.50	2868.75	399-4862-2-ND	1,000	2754.00	C2220C911JZGACTU
		2500	1000pF	±5%	1.7	399-4855-1-ND	168.30	994.50	2868.75	399-4855-2-ND	1,000	2754.00	C2220C102JZGACTU
	X7R	2000	8200pF	±10%	1.7	399-4861-1-ND	127.60	754.00	2175.00	399-4861-2-ND	1,000	2088.00	C2220C822KGRACTU
		1000	47000pF	±10%	1.7	399-4856-1-ND	115.50	682.50	1968.75	399-4856-2-ND	1,000	1890.00	C2220C473KDRACTU
		250	.47µF	±10%	1.1	399-4688-1-ND	66.00	390.00	1125.00	399-4688-2-ND	1,000	1080.00	C2220C474KARACTU
		250	.68µF	±10%	1.3	399-4689-1-ND	66.00	390.00	1125.00	399-4689-2-ND	1,000	1080.00	C2220C684KARACTU
		250	1µF	±10%	1.5	399-4690-1-ND	66.00	390.00	1125.00	399-4690-2-ND	1,000	1080.00	C2220C105KARACTU
2225	C0G (NP0)	2500	750pF	±5%	1.7	399-4869-1-ND	220.00	1300.00	3750.00	399-4869-2-ND	1,000	3600.00	C2225C751JZGACTU
		2500	820pF	±5%	1.7	399-4870-1-ND	220.00	1300.00	3750.00	399-4870-2-ND	1,000	3600.00	C2225C821JZGACTU
		2500	910pF	±5%	1.7	399-4871-1-ND	220.00	1300.00	3750.00	399-4871-2-ND	1,000	3600.00	C2225C911JZGACTU
		2500	1000pF	±5%	1.7	399-4863-1-ND	221.10	1306.50	3768.75	399-4863-2-ND	1,000	3618.00	C2225C102JZGACTU
		2500	1100pF	±5%	1.7	399-4864-1-ND	221.10	1306.50	3768.75	399-4864-2-ND	1,000	3618.00	C2225C112JZGACTU
		2500	1200pF	±5%	1.7	399-4865-1-ND	221.10	1306.50	3768.75	399-4865-2-ND	1,000	3618.00	C2225C122JZGACTU
	X7R	2000	12000pF	±10%	1.7	399-4866-1-ND	147.40	871.00	2512.50	399-4866-2-ND	1,000	2412.00	C2225C123KGRACTU
		1000	56000pF	±10%	1.7	399-4867-1-ND	133.10	786.50	2268.75	399-4867-2-ND	1,000	2178.00	C2225C563KDRACTU
		1000	62000pF	±10%	1.7	399-4868-1-ND	134.20	793.00	2287.50	399-4868-2-ND	1,000	2196.00	C2225C623KDRACTU
		500	.1µF	±10%	1.15	399-3458-1-ND	82.50	487.50	1406.25	399-3458-2-ND	1,000	1350.00	C2225C104KCRACTU
		500	.22µF	±10%	1.7	399-3460-1-ND	82.50	487.50	1406.25	399-3460-2-ND	1,000	1350.00	C2225C224KCRACTU
		250	.47µF	±10%	1.3	399-4691-1-ND	72.60	429.00	1237.50	399-4691-2-ND	1,000	1188.00	C2225C474KARACTU
		250	.68µF	±10%	1.3	399-4692-1-ND	72.60	429.00	1237.50	399-4692-2-ND	1,000	1188.00	C2225C684KARACTU
		250	1µF	±10%	1.4	399-4693-1-ND	72.60	429.00	1237.50	399-4693-2-ND	1,000	1188.00	C2225C105KARACTU
		250	1.2µF	±10%	1.4	399-4694-1-ND	72.60	429.00	1237.50	399-4694-2-ND	1,000	1188.00	C2225C125KARACTU
		50	1µF	±10%	1.0	399-3459-1-ND	66.55	393.25	1134.38	399-3459-2-ND	1,000	1089.00	C2225C105K5RACTU
		50	2.2µF	±10%	1.3	399-3461-1-ND	105.05	620.75	1790.63	399-3461-2-ND	1,000	1719.00	C2225C225K5RACTU

† Open Mode/Fail Safe Termination

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

Capacitor Kits

399-5085-ND (Kemet Part No. CER ENG KIT 07)	High Capacitance Value Capacitor Kit, 400 total pieces — ***RoHS Compliant*** (See Digi-Key website for values included)	**$50.00**
399-5086-ND (Kemet Part No. CER ENG KIT 08)	High Voltage Capacitor Kit, 400 total pieces — ***RoHS Compliant*** (See Digi-Key website for values included)	**$50.00**
399-5087-ND (Kemet Part No. CER ENG KIT 09)	Open Mode/Fail Safe Capacitor Kit, 200 total pieces — ***RoHS Compliant*** (See Digi-Key website for values included)	**$50.00**

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

muRata
Innovator in Electronics

Monolithic Ceramic Capacitors

RoHS COMPLIANT

RPE Series

Features:

- Small size and large capacitance • Low ESR characteristics for high frequency
- Coated with epoxy resin whose flammability is equivalent to UL 94V-0

Fig. 1 – Outside Crimp

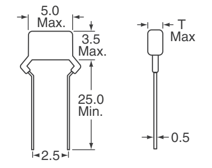

Fig. 2 – Inside Crimp

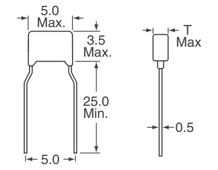

Fig. 3 – Inside Crimp

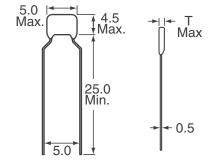

Fig.	Type	WV Vdc	Capaci-tance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Pricing			Murata Part No.
							1	10	100	
1	C0G	100	1.0pF	±0.25pF	2.5	490-3617-ND	.31	2.31	16.50	RPE5C2A1R0C2P1B03B
			1.2pF	±0.25pF	2.5	490-3618-ND	.31	2.28	16.30	RPE5C2A1R2C2P1B03B
			1.5pF	±0.25pF	2.5	490-3619-ND	.31	2.30	16.45	RPE5C2A1R5C2P1B03B
			1.8pF	±0.25pF	2.5	490-3620-ND	.31	2.30	16.45	RPE5C2A1R8C2P1B03B
			2.0pF	±0.25pF	2.5	490-3633-ND	.31	2.31	16.50	RPE5C2A2R0C2P1B03B
			2.2pF	±0.25pF	2.5	490-3634-ND	.31	2.30	16.45	RPE5C2A2R2C2P1B03B
			2.7pF	±0.25pF	2.5	490-3635-ND	.31	2.30	16.45	RPE5C2A2R7C2P1B03B
			3.0pF	±0.25pF	2.5	490-3643-ND	.31	2.31	16.50	RPE5C2A3R0C2P1B03B
			3.3pF	±0.25pF	2.5	490-3644-ND	.31	2.30	16.45	RPE5C2A3R3C2P1B03B
			3.6pF	±0.25pF	2.5	490-3645-ND	.31	2.28	16.30	RPE5C2A3R6C2P1B03B
			3.9pF	±0.25pF	2.5	490-3646-ND	.31	2.30	16.45	RPE5C2A3R9C2P1B03B
			4.7pF	±0.25pF	2.5	490-3653-ND	.29	2.12	15.15	RPE5C2A4R7C2P1B03B
			5.0pF	±0.25pF	2.5	490-3658-ND	.31	2.31	16.50	RPE5C2A5R0C2P1B03B
			5.6pF	±0.25pF	2.5	490-3659-ND	.37	2.71	19.38	RPE5C2A5R6C2P1B03B
			6.2pF	±0.25pF	2.5	490-3662-ND	.37	2.71	19.38	RPE5C2A6R2C2P1B03B
			6.8pF	±0.25pF	2.5	490-3663-ND	.37	2.71	19.38	RPE5C2A6R8C2P1B03B
			10pF	±5%	2.5	490-3623-ND	.31	2.31	16.50	RPE5C2A100J2P1Z03B
			11pF	±5%	2.5	490-3624-ND	.31	2.30	16.45	RPE5C2A110J2P1Z03B
			12pF	±5%	2.5	490-3626-ND	.31	2.31	16.50	RPE5C2A120J2P1Z03B
			13pF	±5%	2.5	490-3627-ND	.31	2.30	16.45	RPE5C2A130J2P1Z03B
			15pF	±5%	2.5	490-3629-ND	.31	2.31	16.50	RPE5C2A150J2P1Z03B
			16pF	±5%	2.5	490-3630-ND	.31	2.30	16.45	RPE5C2A160J2P1Z03B
			18pF	±5%	2.5	490-3632-ND	.31	2.31	16.50	RPE5C2A180J2P1Z03B
			20pF	±5%	2.5	490-3637-ND	.31	2.28	16.30	RPE5C2A200J2P1Z03B
			22pF	±5%	2.5	490-3639-ND	.31	2.31	16.50	RPE5C2A220J2P1Z03B
			24pF	±5%	2.5	490-3640-ND	.31	2.30	16.45	RPE5C2A240J2P1Z03B
			27pF	±5%	2.5	490-3642-ND	.31	2.31	16.50	RPE5C2A270J2P1Z03B
			30pF	±5%	2.5	490-3648-ND	.31	2.30	16.45	RPE5C2A300J2P1Z03B
			33pF	±5%	2.5	490-3650-ND	.31	2.31	16.50	RPE5C2A330J2P1Z03B
			39pF	±5%	2.5	490-3652-ND	.31	2.31	16.50	RPE5C2A390J2P1Z03B
			43pF	±5%	2.5	490-3655-ND	.31	2.30	16.45	RPE5C2A430J2P1Z03B
			47pF	±5%	2.5	490-3657-ND	.31	2.31	16.50	RPE5C2A470J2P1Z03B
			56pF	±5%	2.5	490-3661-ND	.31	2.31	16.50	RPE5C2A560J2P1Z03B
			75pF	±5%	2.5	490-3666-ND	.31	2.30	16.45	RPE5C2A750J2P1Z03B
			82pF	±5%	2.5	490-3668-ND	.31	2.31	16.50	RPE5C2A820J2P1Z03B
			91pF	±5%	2.5	490-3669-ND	.31	2.30	16.45	RPE5C2A910J2P1Z03B
			100pF	±5%	2.5	490-3622-ND	.28	2.10	14.98	RPE5C2A101J2P1Z03B
			120pF	±5%	2.5	490-3625-ND	.31	2.31	16.50	RPE5C2A121J2P1Z03B
			150pF	±5%	2.5	490-3628-ND	.31	2.30	16.45	RPE5C2A151J2P1Z03B
			180pF	±5%	2.5	490-3631-ND	.28	2.10	14.98	RPE5C2A181J2P1Z03B
			200pF	±5%	2.5	490-3636-ND	.31	2.30	16.45	RPE5C2A201J2P1Z03B
			220pF	±5%	2.5	490-3638-ND	.31	2.30	16.45	RPE5C2A221J2P1Z03B
			270pF	±5%	2.5	490-3641-ND	.28	2.10	14.98	RPE5C2A271J2P1Z03B
			300pF	±5%	2.5	490-3647-ND	.32	2.38	17.03	RPE5C2A301J2P1Z03B
			330pF	±5%	2.5	490-3649-ND	.32	2.38	17.03	RPE5C2A331J2P1Z03B
			390pF	±5%	2.5	490-3651-ND	.33	2.40	17.18	RPE5C2A391J2P1Z03B
			430pF	±5%	2.5	490-3654-ND	.34	2.51	17.93	RPE5C2A431J2P1Z03B
			470pF	±5%	2.5	490-3656-ND	.34	2.49	17.78	RPE5C2A471J2P1Z03B
			560pF	±5%	2.5	490-3660-ND	.31	2.28	16.30	RPE5C2A561J2P1B03B
			680pF	±5%	2.5	490-3664-ND	.38	2.81	20.08	RPE5C2A681J2P1B03B
			750pF	±5%	2.5	490-3665-ND	.38	2.81	20.08	RPE5C2A751J2P1B03B
			820pF	±5%	3.15	490-3667-ND	.35	2.56	18.30	RPE5C2A821J2P1B03B
			1,000pF	±5%	3.15	490-3621-ND	.41	3.01	21.53	RPE5C2A102J2P1B03B
		50	1.0pF	±0.25pF	2.5	490-3670-ND	.30	2.24	16.03	RPE5C1H1R0C2P1B03B
			1.2pF	±0.25pF	2.5	490-3671-ND	.30	2.22	15.85	RPE5C1H1R2C2P1B03B
			1.5pF	±0.25pF	2.5	490-3672-ND	.30	2.22	15.85	RPE5C1H1R5C2P1B03B
			2.0pF	±0.25pF	2.5	490-3700-ND	.30	2.24	16.03	RPE5C1H2R0C2P1B03B
			2.2pF	±0.25pF	2.5	490-3701-ND	.30	2.22	15.85	RPE5C1H2R2C2P1B03B
			2.7pF	±0.25pF	2.5	490-3702-ND	.30	2.24	15.98	RPE5C1H2R7C2P1B03B
			3.0pF	±0.25pF	2.5	490-3717-ND	.30	2.24	16.03	RPE5C1H3R0C2P1B03B
			3.3pF	±0.25pF	2.5	490-3718-ND	.30	2.24	15.98	RPE5C1H3R3C2P1B03B
			3.9pF	±0.25pF	2.5	490-3719-ND	.28	2.06	14.73	RPE5C1H3R9C2P1B03B
			4.0pF	±0.25pF	2.5	490-3734-ND	.30	2.24	16.03	RPE5C1H4R0C2P1B03B
			4.7pF	±0.25pF	2.5	490-3735-ND	.28	2.06	14.73	RPE5C1H4R7C2P1B03B
			5.1pF	±0.25pF	2.5	490-3743-ND	.35	2.60	18.58	RPE5C1H5R1C2P1B03B
			5.6pF	±0.25pF	2.5	490-3744-ND	.35	2.60	18.58	RPE5C1H5R6C2P1B03B
			6.0pF	±0.5pF	2.5	490-3752-ND	.30	2.24	16.03	RPE5C1H6R0D2P1B03B
			6.8pF	±0.25pF	2.5	490-3753-ND	.35	2.60	18.58	RPE5C1H6R8C2P1B03B
			7.0pF	±0.5pF	2.5	490-3760-ND	.30	2.24	16.03	RPE5C1H7R0D2P1Z03B
			8.0pF	±0.5pF	2.5	490-3763-ND	.30	2.24	16.03	RPE5C1H8R0D2P1Z03B
			8.2pF	±0.25pF	2.5	490-3764-ND	.35	2.60	18.58	RPE5C1H8R2C2P1Z03B
			9.0pF	±0.5pF	2.5	490-3771-ND	.30	2.24	16.03	RPE5C1H9R0D2P1Z03B
			9.1pF	±0.25pF	2.5	490-3772-ND	.36	2.62	18.73	RPE5C1H9R1C2P1Z03B
			10pF	±5%	2.5	490-3678-ND	.30	2.24	16.03	RPE5C1H100J2P1Z03B
			12pF	±5%	2.5	490-3684-ND	.30	2.24	16.03	RPE5C1H120J2P1Z03B
			13pF	±5%	2.5	490-3686-ND	.30	2.24	15.98	RPE5C1H130J2P1Z03B
			15pF	±5%	2.5	490-3691-ND	.30	2.24	16.03	RPE5C1H150J2P1Z03B
			18pF	±5%	2.5	490-3697-ND	.30	2.24	16.03	RPE5C1H180J2P1Z03B
			20pF	±5%	2.5	490-3703-ND	.30	2.24	15.98	RPE5C1H200J2P1Z03B
			22pF	±5%	2.5	490-3708-ND	.30	2.24	16.03	RPE5C1H220J2P1Z03B
			24pF	±5%	2.5	490-3710-ND	.30	2.24	15.98	RPE5C1H240J2P1Z03B
			27pF	±5%	2.5	490-3714-ND	.30	2.24	16.03	RPE5C1H270J2P1Z03B
			30pF	±5%	2.5	490-3721-ND	.30	2.22	15.85	RPE5C1H300J2P1Z03B
			33pF	±5%	2.5	490-3725-ND	.30	2.24	16.03	RPE5C1H330J2P1Z03B
			39pF	±5%	2.5	490-3731-ND	.30	2.24	16.03	RPE5C1H390J2P1Z03B
			43pF	±5%	2.5	490-3736-ND	.30	2.24	15.98	RPE5C1H430J2P1Z03B
			47pF	±5%	2.5	490-3740-ND	.30	2.24	16.03	RPE5C1H470J2P1Z03B
			51pF	±5%	2.5	490-3745-ND	.30	2.22	15.85	RPE5C1H510J2P1Z03B
			56pF	±5%	2.5	490-3749-ND	.30	2.24	16.03	RPE5C1H560J2P1Z03B
1	C0G	50	68pF	±5%	2.5	490-3757-ND	.30	2.24	16.03	RPE5C1H680J2P1Z03B
			75pF	±5%	2.5	490-3761-ND	.30	2.24	15.98	RPE5C1H750J2P1Z03B
			82pF	±5%	2.5	490-3768-ND	.30	2.24	16.03	RPE5C1H820J2P1Z03B
			91pF	±5%	2.5	490-3773-ND	.30	2.22	15.85	RPE5C1H910J2P1Z03B
			100pF	±5%	2.5	490-3676-ND	.30	2.18	15.55	RPE5C1H101J2P1A03B
			120pF	±5%	2.5	490-3682-ND	.30	2.18	15.55	RPE5C1H121J2P1A03B
			150pF	±5%	2.5	490-3689-ND	.30	2.18	15.55	RPE5C1H151J2P1A03B
			180pF	±5%	2.5	490-3695-ND	.30	2.18	15.55	RPE5C1H181J2P1A03B
			220pF	±5%	2.5	490-3706-ND	.30	2.18	15.55	RPE5C1H221J2P1A03B
			270pF	±5%	2.5	490-3712-ND	.30	2.18	15.55	RPE5C1H271J2P1A03B
			300pF	±5%	2.5	490-3720-ND	.30	2.22	15.85	RPE5C1H301J2P1A03B
			330pF	±5%	2.5	490-3723-ND	.30	2.24	16.03	RPE5C1H331J2P1A03B
			360pF	±5%	2.5	490-3727-ND	.30	2.22	15.85	RPE5C1H361J2P1A03B
			390pF	±5%	2.5	490-3729-ND	.30	2.24	16.03	RPE5C1H391J2P1A03B
			470pF	±5%	2.5	490-3738-ND	.32	2.33	16.68	RPE5C1H471J2P1A03B
			560pF	±5%	2.5	490-3747-ND	.32	2.33	16.68	RPE5C1H561J2P1A03B
			680pF	±5%	2.5	490-3755-ND	.34	2.50	17.85	RPE5C1H681J2P1A03B
			820pF	±5%	2.5	490-3766-ND	.34	2.50	17.85	RPE5C1H821J2P1A03B
			1,000pF	±5%	2.5	490-3674-ND	.38	2.83	20.23	RPE5C1H102J2P1A03B
			1,200pF	±5%	3.15	490-3680-ND	.38	2.83	20.23	RPE5C1H122J2P1A03B
			1,500pF	±5%	3.15	490-3687-ND	.45	3.33	23.75	RPE5C1H152J2P1A03B
			1,800pF	±5%	3.15	490-3693-ND	.46	3.36	23.98	RPE5C1H182J2P1C03B
			2,200pF	±5%	3.15	490-3704-ND	.46	3.36	23.98	RPE5C1H222J2P1C03B
	X7R	100	220pF	±10%	2.5	490-3780-ND	.31	2.31	16.50	RPER72A221K2P1B03B
			270pF	±10%	2.5	490-3782-ND	.31	2.30	16.45	RPER72A271K2P1B03B
			330pF	±10%	2.5	490-3784-ND	.31	2.31	16.50	RPER72A331K2P1B03B
			470pF	±10%	2.5	490-3786-ND	.31	2.31	16.50	RPER72A471K2P1B03B
			680pF	±10%	2.5	490-3788-ND	.31	2.31	16.50	RPER72A681K2P1B03B
			820pF	±10%	2.5	490-3790-ND	.31	2.30	16.45	RPER72A821K2P1B03B
			1,000pF	±10%	2.5	490-3774-ND	.26	1.89	13.48	RPER72A102K2P1A03B
			1,200pF	±10%	2.5	490-3776-ND	.26	1.92	13.70	RPER72A122K2P1A03B
			1,500pF	±10%	2.5	490-3777-ND	.26	1.93	13.78	RPER72A152K2P1A03B
			1,800pF	±10%	2.5	490-3778-ND	.26	1.92	13.70	RPER72A182K2P1A03B
			2,200pF	±10%	2.5	490-3779-ND	.26	1.89	13.48	RPER72A222K2P1A03B
			2,700pF	±10%	2.5	490-3781-ND	.26	1.90	13.60	RPER72A272K2P1A03B
			3,300pF	±10%	2.5	490-3783-ND	.26	1.93	13.78	RPER72A332K2P1A03B
			4,700pF	±10%	2.5	490-3785-ND	.28	2.10	14.98	RPER72A472K2P1A03B
			5,600pF	±10%	2.5	490-3787-ND	.32	2.36	16.85	RPER72A562K2P1A03B
			8,200pF	±10%	3.15	490-3789-ND	.26	1.95	13.93	RPER72A822K2P1A03B
			12,000pF	±10%	3.15	490-3775-ND	.33	2.44	17.43	RPER72A123K2P1A03B
		50	220pF	±10%	2.5	490-3829-ND	.22	1.66	11.83	RPER71H221K2P1A03B
			330pF	±10%	2.5	490-3837-ND	.22	1.60	11.43	RPER71H331K2P1A03B
			390pF	±10%	2.5	490-3840-ND	.24	1.75	12.50	RPER71H391K2P1A03B
			470pF	±10%	2.5	490-3846-ND	.21	1.58	11.25	RPER71H471K2P1A03B
			560pF	±10%	2.5	490-3850-ND	.22	1.60	11.43	RPER71H561K2P1A03B
			680pF	±10%	2.5	490-3856-ND	.22	1.61	11.48	RPER71H681K2P1A03B
			820pF	±10%	2.5	490-3858-ND	.22	1.60	11.43	RPER71H821K2P1A03B
			1,000pF	±10%	2.5	490-3814-ND	.22	1.60	11.43	RPER71H102K2P1A03B
			1,200pF	±10%	2.5	490-3816-ND	.23	1.72	12.30	RPER71H122K2P1A03B
			1,500pF	±10%	2.5	490-3820-ND	.23	1.73	12.35	RPER71H152K2P1A03B
			1,800pF	±10%	2.5	490-3823-ND	.23	1.72	12.30	RPER71H182K2P1A03B
			2,200pF	±10%	2.5	490-3827-ND	.22	1.60	11.43	RPER71H222K2P1A03B
			2,700pF	±10%	2.5	490-3831-ND	.24	1.75	12.48	RPER71H272K2P1A03B
			3,300pF	±10%	2.5	490-3835-ND	.24	1.75	12.53	RPER71H332K2P1A03B
			3,900pF	±10%	2.5	490-3839-ND	.24	1.75	12.48	RPER71H392K2P1A03B
			4,700pF	±10%	2.5	490-3844-ND	.22	1.62	11.60	RPER71H472K2P1A03B
			5,600pF	±10%	2.5	490-3849-ND	.24	1.73	12.38	RPER71H562K2P1A03B
			6,800pF	±10%	2.5	490-3854-ND	.24	1.75	12.53	RPER71H682K2P1A03B
			10,000pF	±10%	2.5	490-3812-ND	.17	1.23	8.80	RPER71H103K2P1A03B
			15,000pF	±10%	2.5	490-3818-ND	.24	1.75	12.53	RPER71H153K2P1A03B
			18,000pF	±10%	2.5	490-3822-ND	.24	1.73	12.38	RPER71H183K2P1A03B
			22,000pF	±10%	2.5	490-3825-ND	.19	1.40	10.00	RPER71H223K2P1A03B
			33,000pF	±10%	3.15	490-3833-ND	.21	1.53	10.93	RPER71H333K2P1A03B
			47,000pF	±10%	3.15	490-3842-ND	.21	1.53	10.95	RPER71H473K2P1A03B
			56,000pF	±10%	3.15	490-3848-ND	.31	2.26	16.13	RPER71H563K2P1A03B
			68,000pF	±10%	3.15	490-3852-ND	.34	2.49	17.75	RPER71H683K2P1A03B
			.1µF	±10%	3.15	490-3810-ND	.16	1.21	8.63	RPER71H104K2P1A03B
	Z5U	100	3,300pF	±20%	2.5	490-3870-ND	.52	3.82	27.28	RPEE42A332M2P1B03B
			4,700pF	±20%	2.5	490-3871-ND	.26	1.90	13.58	RPEE42A472M2P1B03B
			6,800pF	±20%	2.5	490-3872-ND	.48	3.55	25.38	RPEE42A682M2P1B03B
			10,000pF	±20%	2.5	490-3868-ND	.51	3.72	26.60	RPEE42A103M2P1B03B
			15,000pF	±20%	2.5	490-3869-ND	.50	3.71	26.50	RPEE42A153M2P1B03B
		50	1,000pF	±20%	2.5	490-3875-ND	.23	1.71	12.20	RPEE41H102M2P1A03B
			2,200pF	±20%	2.5	490-3877-ND	.24	1.74	12.45	RPEE41H222M2P1A03B
			3,300pF	±20%	2.5	490-3879-ND	.24	1.76	12.58	RPEE41H332M2P1A03B
			4,700pF	±20%	2.5	490-3881-ND	.24	1.77	12.63	RPEE41H472M2P1A03B
			10,000pF	±20%	2.5	490-3874-ND	.19	1.42	10.15	RPEE41H103M2P1A03B
			22,000pF	±20%	2.5	490-3876-ND	.20	1.46	10.40	RPEE41H223M2P1A03B
			33,000pF	±20%	2.5	490-3878-ND	.20	1.45	10.38	RPEE41H333M2P1B03B
			47,000pF	±20%	2.5	490-3880-ND	.20	1.46	10.40	RPEE41H473M2P1A03B
			.1µF	±20%	2.5	490-3873-ND	.12	.91	6.48	RPEE41H104M2P1A03B
2	C0G	50	1.0pF	±0.25pF	2.5	490-3699-ND	.30	2.24	16.03	RPE5C1H1R0C2K1B03B
			2.0pF	±0.25pF	2.5	490-3716-ND	.30	2.24	16.03	RPE5C1H2R0C2K1B03B
			3.0pF	±0.25pF	2.5	490-3733-ND	.30	2.24	16.03	RPE5C1H3R0C2K1B03B
			4.0pF	±0.25pF	2.5	490-3742-ND	.30	2.24	16.03	RPE5C1H4R0C2K1B03B
			5.0pF	±0.25pF	2.5	490-3751-ND	.30	2.24	16.03	RPE5C1H5R0C2K1B03B
			6.0pF	±0.5pF	2.5	490-3759-ND	.30	2.24	16.03	RPE5C1H6R0D2K1B03B
			7.0pF	±0.5pF	2.5	490-3762-ND	.30	2.24	16.03	RPE5C1H7R0D2K1Z03B

(Continued)

Monolithic Ceramic Capacitors – RPE Series *(Cont.)*

Fig.	Type	WV Vdc	Capaci-tance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
2	C0G	50	8.0pF	±0.5pF	2.5	490-3770-ND	.30	2.24	16.03	RPE5C1H8R0D2K1Z03B
			10pF	±5%	2.5	490-3679-ND	.30	2.24	16.03	RPE5C1H100J2K1Z03B
			12pF	±5%	2.5	490-3685-ND	.30	2.24	16.03	RPE5C1H120J2K1Z03B
			15pF	±5%	2.5	490-3692-ND	.30	2.24	16.03	RPE5C1H150J2K1Z03B
			18pF	±5%	2.5	490-3698-ND	.30	2.24	16.03	RPE5C1H180J2K1Z03B
			22pF	±5%	2.5	490-3709-ND	.30	2.24	16.03	RPE5C1H220J2K1Z03B
			27pF	±5%	2.5	490-3715-ND	.30	2.24	16.03	RPE5C1H270J2K1Z03B
			33pF	±5%	2.5	490-3726-ND	.30	2.24	16.03	RPE5C1H330J2K1Z03B
			39pF	±5%	2.5	490-3732-ND	.30	2.24	16.03	RPE5C1H390J2K1Z03B
			47pF	±5%	2.5	490-3741-ND	.30	2.24	16.03	RPE5C1H470J2K1Z03B
			56pF	±5%	2.5	490-3750-ND	.30	2.24	16.03	RPE5C1H560J2K1A03B
			68pF	±5%	2.5	490-3758-ND	.30	2.24	16.03	RPE5C1H680J2K1Z03B
			82pF	±5%	2.5	490-3769-ND	.30	2.24	16.03	RPE5C1H820J2K1Z03B
			100pF	±5%	2.5	490-3677-ND	.30	2.18	15.55	RPE5C1H101J2K1A03B
			120pF	±5%	2.5	490-3683-ND	.30	2.18	15.55	RPE5C1H121J2K1A03B
			150pF	±5%	2.5	490-3690-ND	.30	2.18	15.55	RPE5C1H151J2K1A03B
			180pF	±5%	2.5	490-3696-ND	.30	2.18	15.55	RPE5C1H181J2K1A03B
			220pF	±5%	2.5	490-3707-ND	.30	2.18	15.55	RPE5C1H221J2K1A03B
			270pF	±5%	2.5	490-3713-ND	.30	2.18	15.55	RPE5C1H271J2K1A03B
			330pF	±5%	2.5	490-3724-ND	.30	2.24	16.03	RPE5C1H331J2K1A03B
			390pF	±5%	2.5	490-3730-ND	.30	2.24	16.03	RPE5C1H391J2K1A03B
			470pF	±5%	2.5	490-3739-ND	.32	2.33	16.68	RPE5C1H471J2K1A03B
			560pF	±5%	2.5	490-3748-ND	.32	2.33	16.68	RPE5C1H561J2K1A03B
			680pF	±5%	2.5	490-3756-ND	.34	2.50	17.85	RPE5C1H681J2K1A03B
			820pF	±5%	2.5	490-3767-ND	.34	2.50	17.85	RPE5C1H821J2K1A03B
			1,000pF	±5%	2.5	490-3675-ND	.38	2.83	20.23	RPE5C1H102J2K1A03B
			1,200pF	±5%	3.15	490-3681-ND	.38	2.83	20.23	RPE5C1H122J2K1A03B
			1,500pF	±5%	3.15	490-3688-ND	.45	3.33	23.75	RPE5C1H152J2K1A03B
			1,800pF	±5%	3.15	490-3694-ND	.46	3.36	23.98	RPE5C1H182J2K1A03B
			2,200pF	±5%	3.15	490-3705-ND	.46	3.36	23.98	RPE5C1H222J2K1A03B
			2,700pF	±5%	3.15	490-3711-ND	.46	3.36	23.98	RPE5C1H272J2K1A03B
			3,300pF	±5%	3.15	490-3722-ND	.51	3.72	26.60	RPE5C1H332J2K1A03B
			3,900pF	±5%	3.15	490-3728-ND	.54	3.98	28.43	RPE5C1H392J2K1A03B
			4,700pF	±5%	3.15	490-3737-ND	.56	4.10	29.30	RPE5C1H472J2K1A03B
			5,600pF	±5%	3.15	490-3746-ND	.56	4.10	29.30	RPE5C1H562J2K1A03B

Fig.	Type	WV Vdc	Capaci-tance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
2	C0G	50	6,800pF	±5%	3.15	490-3754-ND	.60	4.45	31.75	RPE5C1H682J2K1C03B
			8,200pF	±5%	3.15	490-3765-ND	.64	4.75	33.93	RPE5C1H822J2K1C03B
			10,000pF	±5%	3.15	490-3673-ND	.69	5.05	36.10	RPE5C1H103J2K1C03B
	X7R	50	220pF	±10%	2.5	490-3830-ND	.22	1.66	11.83	RPER71H221K2K1A03B
			330pF	±10%	2.5	490-3838-ND	.22	1.60	11.43	RPER71H331K2K1A03B
			470pF	±10%	2.5	490-3847-ND	.21	1.58	11.25	RPER71H471K2K1A03B
			680pF	±10%	2.5	490-3857-ND	.22	1.61	11.48	RPER71H681K2K1A03B
			1,000pF	±10%	2.5	490-3815-ND	.22	1.60	11.43	RPER71H102K2K1A03B
			1,500pF	±10%	2.5	490-3821-ND	.23	1.73	12.35	RPER71H152K2K1A03B
			2,200pF	±10%	2.5	490-3828-ND	.22	1.60	11.43	RPER71H222K2K1A03B
			3,300pF	±10%	2.5	490-3836-ND	.24	1.75	12.53	RPER71H332K2K1A03B
			4,700pF	±10%	2.5	490-3845-ND	.22	1.62	11.60	RPER71H472K2K1A03B
			6,800pF	±10%	2.5	490-3855-ND	.24	1.75	12.53	RPER71H682K2K1A03B
			10,000pF	±10%	2.5	490-3813-ND	.17	1.23	8.80	RPER71H103K2K1A03B
			15,000pF	±10%	2.5	490-3819-ND	.24	1.75	12.53	RPER71H153K2K1A03B
			22,000pF	±10%	2.5	490-3826-ND	.19	1.40	10.00	RPER71H223K2K1A03B
			33,000pF	±10%	3.15	490-3834-ND	.21	1.53	10.93	RPER71H333K2K1A03B
			47,000pF	±10%	3.15	490-3843-ND	.21	1.53	10.95	RPER71H473K2K1A03B
			68,000pF	±10%	3.15	490-3853-ND	.34	2.49	17.75	RPER71H683K2K1A03B
			.1µF	±10%	3.15	490-3811-ND	.16	1.21	8.63	RPER71H104K2K1A03B
			.15µF	±10%	3.15	490-3817-ND	.58	4.25	30.35	RPER71H154K2K1C03B
			.22µF	±10%	3.15	490-3824-ND	.51	3.78	27.00	RPER71H224K2K1C03B
			.33µF	±10%	3.15	490-3832-ND	.67	4.92	35.15	RPER71H334K2K1C03B
			.47µF	±10%	3.15	490-3841-ND	.64	4.70	33.60	RPER71H474K2K1C03B
	Y5V	50	1,000pF	±80%-20%	2.5	490-3861-ND	.24	1.78	12.70	RPEF51H102Z2K1A03B
			2,200pF	±80%-20%	2.5	490-3864-ND	.24	1.78	12.70	RPEF51H222Z2K1A03B
			4,700pF	±80%-20%	2.5	490-3867-ND	.24	1.78	12.70	RPEF51H472Z2K1A03B
			10,000pF	±80%-20%	2.5	490-3860-ND	.19	1.37	9.80	RPEF51H103Z2K1A03B
			22,000pF	±80%-20%	2.5	490-3863-ND	.19	1.41	10.05	RPEF51H223Z2K1A03B
			47,000pF	±80%-20%	2.5	490-3866-ND	.19	1.41	10.05	RPEF51H473Z2K1A03B
			.1µF	±80%-20%	2.5	490-3859-ND	.10	.76	5.45	RPEF51H104Z2K1A03B
			.22µF	±80%-20%	3.15	490-3862-ND	.22	1.65	11.75	RPEF51H224Z2K1A03B
			.47µF	±80%-20%	3.15	490-3865-ND	.33	2.46	17.60	RPEF51H474Z2K1C03B
3	X7R	50	.68µF	±10%	3.15	490-3851-ND	1.63	12.00	85.73	RPER71H684K3K1C03B

RDE Series

Features: • Small size and large capacitance • Low ESR characteristics for high frequency • Coated with epoxy resin whose flammability is equivalent to UL 94V-0

Dimensions in mm

Fig. 1 – Inside Crimp

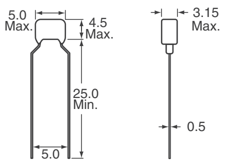

Fig. 2 – Inside Crimp

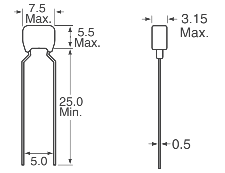

Fig. 3 – Straight Long

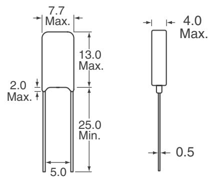

Fig. 4 – Inside Crimp

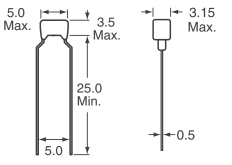

Fig. 5 – Straight Long

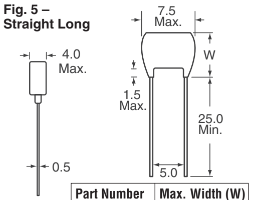

Part Number	Max. Width (W)
490-4826-ND	8.0
490-4819-ND	7.5

Fig.	Type	WV Vdc	Capaci-tance	Toler-ance	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
2	X7R	500	.1µF	±10%	490-3796-ND	6.60	48.63	347.33	RDER72H104K8K1C11B
Upgraded Voltage Ratings									
1	X7R	630	22,000pF	±10%	490-4827-ND	1.06	7.82	55.83	RDER72J223K3K1C11B
		630	33,000pF	±10%	490-4829-ND	1.10	8.07	57.65	RDER72J333K3K1C11B
		630	47,000pF	±10%	490-4832-ND	1.36	10.01	71.50	RDER72J473K3K1C11B
		250	68,000pF	±10%	490-4820-ND	.99	7.30	52.18	RDER72E683K3K1C11B
		250	.1µF	±10%	490-4816-ND	.99	7.30	52.18	RDER72E104K3K1C11B
2	X7R	630	.10µF	±10%	490-4821-ND	2.04	15.07	107.63	RDER72J104K8K1C11B
		250	.22µF	±10%	490-4818-ND	2.06	15.17	108.35	RDER72E224K8K1C11B

Fig.	Type	WV Vdc	Capaci-tance	Toler-ance	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
4	X7R	630	1,000pF	±10%	490-4823-ND	.73	5.41	38.68	RDER72J102K2K1C11B
		630	1,500pF	±10%	490-4825-ND	.76	5.57	39.78	RDER72J152K2K1C11B
		630	2,200pF	±10%	490-4828-ND	.78	5.77	41.23	RDER72J222K2K1C11B
		630	3,300pF	±10%	490-4830-ND	.78	5.77	41.23	RDER72J332K2K1C11B
		630	4,700pF	±10%	490-4833-ND	.79	5.82	41.60	RDER72J472K2K1C11B
		630	6,800pF	±10%	490-4834-ND	.83	6.13	43.78	RDER72J682K2K1C11B
		630	10,000pF	±10%	490-4822-ND	.83	6.13	43.78	RDER72J103K2K1C11B
		630	15,000pF	±10%	490-4824-ND	.83	6.13	43.78	RDER72J153K2K1C11B
		250	15,000pF	±10%	490-4817-ND	.83	6.08	43.43	RDER72E153K2K1C11B
5	X7R	630	.22µF	±10%	490-4826-ND	3.40	25.08	179.13	RDER72J224K5B1C13B
		250	.47µF	±10%	490-4819-ND	3.36	24.77	176.93	RDER72E474K5B1C13B
3	X7R	630	.47µF	±20%	490-4831-ND	6.09	44.89	320.65	RDER72J474MUB1C13B

Safety Recognized Ceramic Capacitors

Temperature Characteristics	Capacitance Change	Temperature Range
SL	350 ~ -1000ppm/°C	-20°C ~ 85°C
B	±10% Maximum	-25°C ~ 85°C
E	20, -55% Maximum	
F	30, -80% Maximum	

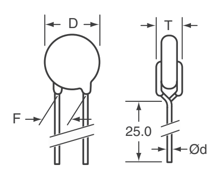

Features: • Operating temperature range guaranteed up to 125°C (UL: 85°C) • Rated voltage of 250V • Recognized by UL/CSA/BSI/SEMKO/SEV/VDE/FIMKO/NEMKO/DEMKO and DEMKO/NSW for the KH/KY series • Coated with flame retardant epoxy resin (conforming to UL 94V-0 standards)

Cap. (pF)	Cap. Tol.%	Temp. Char.	Dimensions – mm D	ød	F	T	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
KH Series											
Basic Insulation / Class X1, Y2											
220	±10	B	8	0.6	7.5	7.0	490-4208-ND	.20	1.47	10.48	DE2B3KH221KA3B
330	±10	B	8	0.6	7.5	7.0	490-4209-ND	.20	1.48	10.55	DE2B3KH331KA3B
470	±10	B	8	0.6	7.5	7.0	490-4210-ND	.20	1.44	10.30	DE2B3KH471KA3B
680	±10	B	9	0.6	7.5	7.0	490-4211-ND	.21	1.56	11.18	DE2B3KH681KA3B
1,000	±20	E	8	0.6	7.5	7.0	490-4212-ND	.20	1.48	10.55	DE2E3KH102MA3B
1,500	±20	E	9	0.6	7.5	7.0	490-4213-ND	.22	1.62	11.58	DE2E3KH152MA3B
2,200	±20	E	10	0.6	7.5	7.0	490-4214-ND	.24	1.80	12.85	DE2E3KH222MA3B
3,300	±20	E	12	0.6	7.5	7.0	490-4215-ND	.31	2.28	16.28	DE2E3KH332MA3B
4,700	±20	E	13	0.6	7.5	7.0	490-4216-ND	.40	2.96	21.13	DE2E3KH472MA3B
10,000	±20	F	16	0.6	7.5	7.0	490-4217-ND	.48	3.54	25.25	DE2F3KH103MA3B

Cap. (pF)	Cap. Tol.%	Temp. Char.	Dimensions – mm D	ød	F	T	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
KY Series											
Basic Insulation / Class X1, Y2											
15	±5	SL	8	0.6	5.0	5.0	490-4218-ND	.19	1.39	9.95	DE21XKY150JA2BM01
22	±5	SL	8	0.6	5.0	5.0	490-4219-ND	.22	1.60	11.40	DE21XKY220JA2BM01
33	±5	SL	8	0.6	5.0	5.0	490-4220-ND	.19	1.39	9.95	DE21XKY330JA2BM01
47	±5	SL	8	0.6	5.0	5.0	490-4221-ND	.19	1.39	9.95	DE21XKY470JA2BM01
68	±5	SL	8	0.6	5.0	5.0	490-4222-ND	.19	1.39	9.95	DE21XKY680JA2BM01
100	±10	B	7	0.6	7.5	5.0	490-4223-ND	.18	1.36	9.73	DE2B3KY101KA2BM01
150	±10	B	7	0.6	7.5	5.0	490-4224-ND	.18	1.36	9.73	DE2B3KY151KA2BM01
220	±10	B	7	0.6	7.5	5.0	490-4225-ND	.18	1.36	9.73	DE2B3KY221KA2BM01
330	±10	B	7	0.6	7.5	5.0	490-4226-ND	.18	1.36	9.73	DE2B3KY331KA2BM01
470	±10	B	7	0.6	7.5	5.0	490-4227-ND	.18	1.36	9.73	DE2B3KY471KA2BM01
680	±10	B	8	0.6	7.5	5.0	490-4228-ND	.20	1.45	10.35	DE2B3KY681KA2BM01
1,000	±20	E	7	0.6	7.5	5.0	490-4229-ND	.18	1.36	9.73	DE2E3KY102MA2BM01
1,500	±20	E	7	0.6	7.5	5.0	490-4230-ND	.18	1.36	9.73	DE2E3KY152MA2BM01
2,200	±20	E	8	0.6	7.5	5.0	490-4231-ND	.20	1.48	10.60	DE2E3KY222MA2BM01
3,300	±20	E	9	0.6	7.5	5.0	490-4232-ND	.22	1.63	11.63	DE2E3KY332MA2BM01
4,700	±20	E	10	0.6	7.5	5.0	490-4233-ND	.25	1.87	13.33	DE2E3KY472MA2BM01
KX Series											
Reinforced Insulation / Class X1, Y1											
3,300	±20	E	12	0.6	10.0	8.0	490-4234-ND	.45	3.34	23.83	DE1E3KX332MA5BA01

High Voltage Ceramic Capacitors

DEA Series: Temperature compensating type ceramics realize low heat dissipation than DEH/DES series coated with flame retardant epoxy resin (equal to UL94V-0 standards)

Temperature Characteristics	Capacitance Change	Temperature Range
SL	350 ~ -1000ppm/°C	20°C ~ 85°C
B	±10% Maximum	-20°C ~ 85°C
E	20, -55% Maximum	-20°C ~ 85°C
F	30, -80% Maximum	-20°C ~ 85°C
R	15, -30% Maximum	85°C ~ 125°C

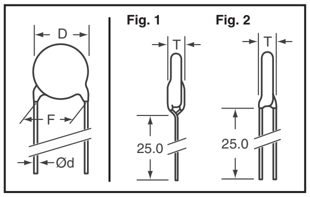
Fig. 1 Fig. 2

VDC (kV)	Cap. (pF)	Cap. Toler. %	Temp. Char.	Dimensions (mm)				Digi-Key Part No.	Pricing			Murata Part No.
				D	ød	F	T		1	10	100	
DEA Series 125°C Guaranteed/Class 1												
Fig. 1												
1	82	±5	SL	6	0.6	5.0	4.0	490-4166-ND	.16	1.19	8.50	DEA1X3A820JA2B
	100	±5	SL	6	0.6	5.0	4.0	490-4146-ND	.17	1.23	8.75	DEA1X3A101JA2B
	120	±5	SL	6	0.6	5.0	4.0	490-4148-ND	.17	1.26	9.00	DEA1X3A121JA2B
	150	±5	SL	7	0.6	5.0	4.0	490-4150-ND	.18	1.35	9.63	DEA1X3A151JA2B
	180	±5	SL	7	0.6	5.0	4.0	490-4152-ND	.18	1.35	9.63	DEA1X3A181JA2B
	220	±5	SL	8	0.6	5.0	4.0	490-4154-ND	.19	1.42	10.18	DEA1X3A221JA2B
	270	±5	SL	9	0.6	5.0	4.0	490-4156-ND	.20	1.49	10.68	DEA1X3A271JA2B
	330	±5	SL	10	0.6	5.0	4.0	490-4158-ND	.22	1.59	11.38	DEA1X3A331JA2B
	390	±5	SL	10	0.6	5.0	4.0	490-4160-ND	.22	1.64	11.73	DEA1X3A391JA2B
	470	±5	SL	11	0.6	5.0	4.0	490-4162-ND	.23	1.72	12.28	DEA1X3A471JA2B
	560	±5	SL	12	0.6	7.5	4.0	490-4164-ND	.26	1.92	13.70	DEA1X3A561JA3B
	10	±5	SL	4.5	0.5	5.0	4.0	490-4145-ND	.16	1.20	8.60	DEA1X3A100JC1B
	12	±5	SL	4.5	0.5	5.0	4.0	490-4147-ND	.16	1.20	8.60	DEA1X3A120JC1B
	15	±5	SL	4.5	0.5	5.0	4.0	490-4149-ND	.16	1.20	8.55	DEA1X3A150JC1B
	18	±5	SL	4.5	0.5	5.0	4.0	490-4151-ND	.16	1.19	8.48	DEA1X3A180JC1B
	22	±5	SL	4.5	0.5	5.0	4.0	490-4153-ND	.16	1.17	8.38	DEA1X3A220JC1B
	27	±5	SL	4.5	0.5	5.0	4.0	490-4155-ND	.16	1.17	8.38	DEA1X3A270JC1B
	33	±5	SL	4.5	0.5	5.0	4.0	490-4157-ND	.16	1.17	8.38	DEA1X3A330JC1B
	47	±5	SL	4.5	0.5	5.0	4.0	490-4161-ND	.16	1.17	8.35	DEA1X3A470JC1B
	56	±5	SL	5	0.5	5.0	4.0	490-4163-ND	.16	1.17	8.35	DEA1X3A560JC1B
	68	±5	SL	5	0.5	5.0	4.0	490-4165-ND	.16	1.19	8.48	DEA1X3A680JC1B
2	10	±5	SL	4.5	0.5	5.0	5.0	490-4167-ND	.18	1.32	9.40	DEA1X3D100JC1B
	12	±5	SL	4.5	0.5	5.0	5.0	490-4169-ND	.30	2.21	15.78	DEA1X3D120JC1B
	15	±5	SL	4.5	0.5	5.0	5.0	490-4171-ND	.17	1.29	9.20	DEA1X3D150JC1B
	18	±5	SL	4.5	0.5	5.0	5.0	490-4173-ND	.17	1.22	8.73	DEA1X3D180JC1B
	22	±5	SL	4.5	0.5	5.0	5.0	490-4175-ND	.16	1.20	8.60	DEA1X3D220JC1B
	27	±5	SL	4.5	0.5	5.0	5.0	490-4177-ND	.16	1.20	8.55	DEA1X3D270JC1B
	33	±5	SL	4.5	0.5	5.0	5.0	490-4179-ND	.16	1.20	8.60	DEA1X3D330JC1B
	47	±5	SL	6	0.6	5.0	5.0	490-4183-ND	.17	1.23	8.75	DEA1X3D470JA2B
	56	±5	SL	6	0.6	5.0	5.0	490-4185-ND	.17	1.25	8.95	DEA1X3D560JA2B
	68	±5	SL	6	0.6	5.0	5.0	490-4187-ND	.18	1.32	9.40	DEA1X3D680JA2B
	82	±5	SL	7	0.6	5.0	5.0	490-4188-ND	.19	1.37	9.78	DEA1X3D820JA2B
	100	±5	SL	7	0.6	5.0	5.0	490-4168-ND	.19	1.37	9.78	DEA1X3D101JA2B
	120	±5	SL	8	0.6	5.0	5.0	490-4170-ND	.20	1.44	10.30	DEA1X3D121JA2B
	150	±5	SL	8	0.6	5.0	5.0	490-4172-ND	.20	1.50	10.73	DEA1X3D151JA2B
	180	±5	SL	9	0.6	5.0	5.0	490-4174-ND	.21	1.56	11.18	DEA1X3D181JA2B
	220	±5	SL	10	0.6	5.0	5.0	490-4176-ND	.24	1.74	12.40	DEA1X3D221JA2B
	270	±5	SL	11	0.6	5.0	5.0	490-4178-ND	.24	1.79	12.80	DEA1X3D271JA2B
	330	±5	SL	12	0.6	7.5	5.0	490-4180-ND	.27	2.00	14.28	DEA1X3D331JA2B
	390	±5	SL	13	0.6	7.5	5.0	490-4182-ND	.31	2.32	16.55	DEA1X3D391JA3B
	470	±5	SL	14	0.6	7.5	5.0	490-4184-ND	.36	2.67	19.05	DEA1X3D471JA3B
	560	±5	SL	15	0.6	7.5	5.0	490-4186-ND	.41	3.05	21.78	DEA1X3D561JA3B
3.15	47	±5	SL	7	0.6	7.5	6.0	490-4205-ND	.19	1.40	9.98	DEA1X3F470JA3B
	68	±5	SL	8	0.6	7.5	6.0	490-4206-ND	.21	1.51	10.80	DEA1X3F680JA3B
	82	±5	SL	8	0.6	7.5	6.0	490-4207-ND	.21	1.58	11.25	DEA1X3F820JA3B
	100	±5	SL	9	0.6	7.5	6.0	490-4190-ND	.21	1.58	11.25	DEA1X3F101JA3B
	120	±5	SL	10	0.6	7.5	6.0	490-4192-ND	.23	1.66	11.85	DEA1X3F121JA3B
	150	±5	SL	11	0.6	7.5	6.0	490-4194-ND	.26	1.91	13.65	DEA1X3F151JA3B
	180	±5	SL	11	0.6	7.5	6.0	490-4196-ND	.28	2.03	14.48	DEA1X3F181JA3B
	220	±5	SL	12	0.6	7.5	6.0	490-4198-ND	.34	2.49	17.78	DEA1X3F221JA3B
	270	±5	SL	14	0.6	7.5	6.0	490-4200-ND	.40	2.91	20.80	DEA1X3F271JA3B
	330	±5	SL	15	0.6	7.5	6.0	490-4202-ND	.42	3.07	21.90	DEA1X3F331JA3B
	390	±5	SL	16	0.6	7.5	6.0	490-4204-ND	.51	3.75	26.78	DEA1X3F391JA3B
Fig. 2												
1	39	±5	SL	4.5	0.5	5.0	4.0	490-4159-ND	.16	1.17	8.35	DEA1X3A390JC1B
2	39	±5	SL	5	0.5	5.0	5.0	490-4181-ND	.16	1.20	8.60	DEA1X3D390JC1B
3.15	10	±5	SL	5	0.5	7.5	6.0	490-4189-ND	.19	1.39	9.95	DEA1X3F100JCDB
	12	±5	SL	5	0.5	7.5	6.0	490-4191-ND	.18	1.35	9.65	DEA1X3F120JCDB
	15	±5	SL	5	0.5	7.5	6.0	490-4193-ND	.17	1.27	9.05	DEA1X3F150JCDB
	18	±5	SL	5	0.5	7.5	6.0	490-4195-ND	.19	1.38	9.85	DEA1X3F180JCDB
	22	±5	SL	5	0.5	7.5	6.0	490-4197-ND	.18	1.32	9.45	DEA1X3F220JCDB
	27	±5	SL	6	0.6	7.5	6.0	490-4199-ND	.17	1.23	8.80	DEA1X3F270JC3B
	33	±5	SL	6	0.6	7.5	6.0	490-4201-ND	.18	1.32	9.45	DEA1X3F330JC3B
	39	±5	SL	6	0.6	7.5	6.0	490-4203-ND	.18	1.30	9.28	DEA1X3F390JC3B
DEB Series Class 2												
Fig. 1												
1	680	±10	B	6	0.6	5.0	4.0	490-4267-ND	.16	1.21	8.63	DEBB33A681KA2B
	1,000	±10	B	6	0.6	5.0	4.0	490-4258-ND	.17	1.25	8.93	DEBB33A102KA2B
	1,500	±10	B	8	0.6	5.0	4.0	490-4260-ND	.18	1.36	9.73	DEBB33A152KA2B
	2,200	±10	B	9	0.6	5.0	4.0	490-4262-ND	.21	1.56	11.13	DEBB33A222KA2B
	2,200	80, -20	F	6	0.6	5.0	4.0	490-4251-ND	.17	1.25	8.93	DEBF33A222ZA2B
	2,200	80, -20	E	7	0.6	5.0	4.0	490-4241-ND	.17	1.27	9.08	DEBE33A222ZA2B
	3,300	±10	B	10	0.6	5.0	4.0	490-4264-ND	.23	1.72	12.28	DEBB33A332KA2B
	4,700	±10	B	12	0.6	7.5	4.0	490-4266-ND	.26	1.90	13.58	DEBB33A472KA3B
	4,700	80, -20	F	7	0.6	5.0	4.0	490-4252-ND	.20	1.46	10.40	DEBF33A472ZA2B
	4,700	80, -20	E	9	0.6	5.0	4.0	490-4242-ND	.21	1.55	11.05	DEBE33A472ZA2B
	6,800	±10	B	15	0.6	7.5	4.0	490-4268-ND	.40	2.95	21.05	DEBB33A682KA3B
1	10,000	80, -20	F	10	0.6	5.0	4.0	490-4250-ND	.25	1.83	13.05	DEBF33A103ZA2B
	10,000	80, -20	E	13	0.6	7.5	4.0	490-4240-ND	.33	2.46	17.58	DEBE33A103ZA3B
2	470	±10	B	6	0.6	5.0	5.0	490-4277-ND	.19	1.41	10.10	DEBB33D471KA2B
	680	±10	B	7	0.6	5.0	5.0	490-4279-ND	.19	1.41	10.10	DEBB33D681KA2B
	1,000	±10	B	8	0.6	5.0	5.0	490-4270-ND	.22	1.64	11.73	DEBB33D102KA2B
	1,000	80, -20	E	6	0.6	5.0	5.0	490-4243-ND	.18	1.32	9.45	DEBE33D102ZA2B
	1,500	±10	B	9	0.6	5.0	5.0	490-4272-ND	.24	1.74	12.40	DEBB33D152KA2B
	2,200	±10	B	10	0.6	5.0	5.0	490-4274-ND	.29	2.16	15.43	DEBB33D222KA2B
	2,200	80, -20	F	7	0.6	5.0	5.0	490-4255-ND	.24	1.74	12.40	DEBF33D222ZA2B
	2,200	80, -20	E	8	0.6	5.0	5.0	490-4245-ND	.21	1.51	10.80	DEBE33D222ZA2B
	3,300	±10	B	12	0.6	7.5	5.0	490-4276-ND	.41	2.99	21.38	DEBB33D332KA3B
	4,700	±10	B	15	0.6	7.5	5.0	490-4278-ND	.47	3.43	24.53	DEBB33D472KA3B
	4,700	80, -20	F	9	0.6	5.0	5.0	490-4256-ND	.29	2.12	15.18	DEBF33D472ZA2B
	4,700	80, -20	E	11	0.6	5.0	5.0	490-4246-ND	.28	2.10	14.98	DEBE33D472ZA2B
	10,000	80, -20	F	12	0.6	7.5	5.0	490-4254-ND	.43	3.19	22.80	DEBF33D103ZA3B
	10,000	80, -20	E	16	0.6	7.5	5.0	490-4244-ND	.50	3.67	26.20	DEBE33D103ZA3B
3.15	470	±10	B	7	0.6	7.5	6.0	490-4288-ND	.21	1.58	11.25	DEBB33F471KC3B
	680	±10	B	8	0.6	7.5	6.0	490-4289-ND	.24	1.79	12.80	DEBB33F681KA3B
	1,000	±10	B	9	0.6	7.5	6.0	490-4281-ND	.29	2.11	15.05	DEBB33F102KA3B
	1,500	±10	B	11	0.6	7.5	6.0	490-4283-ND	.35	2.60	18.60	DEBB33F152KA3B
	2,200	80, -20	E	10	0.6	7.5	6.0	490-4248-ND	.28	2.05	14.68	DEBE33F222ZA3B
	2,200	±10	B	13	0.6	7.5	6.0	490-4285-ND	.52	3.80	27.18	DEBB33F222KA3B
	3,300	±10	B	15	0.6	7.5	6.0	490-4287-ND	.66	4.88	34.85	DEBB33F332KA3B
	4,700	80, -20	E	13	0.6	7.5	6.0	490-4249-ND	.47	3.44	24.60	DEBE33F472ZA3B
Fig. 2												
1	100	±10	B	4.5	0.5	5.0	4.0	490-4257-ND	.17	1.28	9.18	DEBB33A101KC1B
	150	±10	B	4.5	0.5	5.0	4.0	490-4259-ND	.18	1.30	9.25	DEBB33A151KC1B
	220	±10	B	4.5	0.5	5.0	4.0	490-4261-ND	.16	1.20	8.60	DEBB33A221KC1B
	330	±10	B	4.5	0.5	5.0	4.0	490-4263-ND	.18	1.30	9.25	DEBB33A331KC1B
	470	±10	B	5	0.5	5.0	4.0	490-4265-ND	.17	1.23	8.80	DEBB33A471KC1B
	1,000	80, -20	E	5	0.5	5.0	4.0	490-4239-ND	.17	1.26	9.00	DEBE33A102ZC1B
2	100	±10	B	4.5	0.5	5.0	5.0	490-4269-ND	.19	1.41	10.10	DEBB33D101KC1B
	150	±10	B	4.5	0.5	5.0	5.0	490-4271-ND	.30	2.22	15.83	DEBB33D151KC1B
	220	±10	B	4.5	0.5	5.0	5.0	490-4273-ND	.18	1.36	9.73	DEBB33D221KC1B
	330	±10	B	5	0.5	5.0	5.0	490-4275-ND	.19	1.38	9.85	DEBB33D331KC1B
	1,000	80, -20	F	5	0.5	5.0	5.0	490-4253-ND	.19	1.40	10.03	DEBF33D102ZC1B
3.15	100	±10	B	5	0.5	7.5	6.0	490-4280-ND	.20	1.47	10.48	DEBB33F101KCDB
	150	±10	B	5	0.5	7.5	6.0	490-4282-ND	.20	1.45	10.35	DEBB33F151KCDB
	220	±10	B	5	0.5	7.5	6.0	490-4284-ND	.19	1.39	9.90	DEBB33F221KCDB
	330	±10	B	6	0.6	7.5	6.0	490-4286-ND	.20	1.50	10.73	DEBB33F331KC3B
	1,000	80, -20	E	7	0.6	7.5	6.0	490-4247-ND	.21	1.52	10.88	DEBE33F102ZC3B
DEC Series Class 1, 2												
Fig. 1												
6.3	100	±10	B	9	0.6	10.0	7.0	490-4093-ND	.39	2.88	20.55	DECB33J101KC4B
	150	±10	B	9	0.6	10.0	7.0	490-4095-ND	.39	2.91	20.78	DECB33J151KC4B
	220	±10	B	9	0.6	10.0	7.0	490-4096-ND	.40	2.94	20.98	DECB33J221KC4B
	330	±10	B	9	0.6	10.0	7.0	490-4097-ND	.38	2.82	20.15	DECB33J331KC4B
	470	±10	B	10	0.6	10.0	7.0	490-4098-ND	.38	2.80	20.00	DECB33J471KC4B
	680	±10	B	11	0.6	10.0	7.0	490-4099-ND	.50	3.66	26.15	DECB33J681KC4B
	1,000	±10	B	13	0.6	10.0	7.0	490-4094-ND	.56	4.14	29.60	DECB33J102KC4B
	1,000	20, -55	E	11	0.6	10.0	7.0	490-4100-ND	.40	2.94	20.98	DECE33J102ZC4B
	2,200	20, -55	E	15	0.6	10.0	7.0	490-4101-ND	.70	5.13	36.63	DECE33J222ZC4B
DEH Series 125°C Guaranteed / Low Dissipation Factor												
Fig. 1												
1	220	±10	R	7	0.6	5.0	4.5	490-4104-ND	.21	1.52	10.88	DEHR33A221KA2B
	330	±10	R	7	0.6	5.0	4.5	490-4106-ND	.21	1.52	10.88	DEHR33A331KA2B
	470	±10	R	7	0.6	5.0	4.5	490-4108-ND	.21	1.52	10.88	DEHR33A471KA2B
	680	±10	R	8	0.6	5.0	4.5	490-4110-ND	.23	1.70	12.15	DEHR33A681KA2B
	1,000	±10	R	9	0.6	5.0	4.5	490-4102-ND	.24	1.75	12.48	DEHR33A102KA2B
	1,500	±10	R	11	0.6	5.0	4.5	490-4103-ND	.26	1.95	13.90	DEHR33A152KA2B
	2,200	±10	R	13	0.6	7.5	4.5	490-4105-ND	.36	2.68	19.18	DEHR33A222KA3B
	3,300	±10	R	15	0.6	7.5	4.5	490-4107-ND	.44	3.24	23.18	DEHR33A332KA3B
	4,700	±10	R	17	0.6	7.5	4.5	490-4109-ND	.52	3.85	27.48	DEHR33A472KA3B
2	330	±10	R	8	0.6	7.5	5.0	490-4119-ND	.23	1.68	12.03	DEHR33D331KA3B
	390	±10	R	8	0.6	7.5	5.0	490-4121-ND	.23	1.68	12.03	DEHR33D391KA3B
	470	±10	R	9	0.6	7.5	5.0	490-4123-ND	.23	1.69	12.08	DEHR33D471KA3B
	560	±10	R	9	0.6	7.5	5.0	490-4125-ND	.26	1.92	13.70	DEHR33D561KA3B
	680	±10	R	10	0.6	7.5	5.0	490-4126-ND	.26	1.90	13.58	DEHR33D681KA3B
	820	±10	R	11	0.6	7.5	5.0	490-4127-ND	.28	2.04	14.55	DEHR33D821KA3B
	1,000	±10	R	12	0.6	7.5	5.0	490-4111-ND	.31	2.26	16.15	DEHR33D102KA3B
	1,200	±10	R	12	0.6	7.5	5.0	490-4112-ND	.33	2.44	17.45	DEHR33D122KA3B
	1,500	±10	R	12	0.6	7.5	5.0	490-4113-ND	.33	2.44	17.45	DEHR33D152KA3B
	1,800	±10	R	14	0.6	7.5	5.0	490-4114-ND	.47	3.49	24.93	DEHR33D182KA3B
	2,200	±10	R	15	0.6	7.5	5.0	490-4116-ND	.54	3.99	28.48	DEHR33D222KA3B
	2,700	±10	R	17	0.6	7.5	5.0	490-4118-ND	.60	4.42	31.55	DEHR33D272KA3B
	3,300	±10	R	19	0.6	10.0	5.0	490-4120-ND	.72	5.32	38.00	DEHR33D332KA4B
	3,900	±10	R	20	0.6	10.0	5.0	490-4122-ND	.94	6.92	49.45	DEHR33D392KA4B
	4,700	±10	R	21	0.6	10.0	5.0	490-4124-ND	1.06	7.78	55.58	DEHR33D472KA4B
3.15	330	±10	R	8	0.6	7.5	6.0	490-4138-ND	.25	1.86	13.30	DEHR33F331KA3B
	390	±10	R	9	0.6	7.5	6.0	490-4139-ND	.27	1.96	13.98	DEHR33F391KA3B
	470	±10	R	10	0.6	7.5	6.0	490-4140-ND	.29	2.17	15.50	DEHR33F471KA3B
	560	±10	R	10	0.6	7.5	6.0	490-4141-ND	.33	2.43	17.33	DEHR33F561KA3B
	680	±10	R	11	0.6	7.5	6.0	490-4142-ND	.34	2.49	17.78	DEHR33F681KA3B
	820	±10	R	12	0.6	7.5	6.0	490-4143-ND	.43	3.14	22.40	DEHR33F821KA3B
	1,000	±10	R	13	0.6	7.5	6.0	490-4128-ND	.49	3.61	25.75	DEHR33F102KA3B
	1,200	±10	R	14	0.6	7.5	6.0	490-4129-ND	.64	4.69	33.50	DEHR33F122KA3B
	1,500	±10	R	15	0.6	7.5	6.0	490-4131-ND	.66	4.88	34.85	DEHR33F152KA3B
	1,800	±10	R	16	0.6	7.5	6.0	490-4133-ND	.78	5.78	41.28	DEHR33F182KA3B
	2,200	±10	R	17	0.6	7.5	6.0	490-4135-ND	.80	5.89	42.10	DEHR33F222KA3B
	2,700	±10	R	19	0.6	10.0	6.0	490-4137-ND	1.01	7.44	53.13	DEHR33F272KA4B
Fig. 2												
2	220	±10	R	7	6.0	7.5	5.0	490-4115-ND	.22	1.62	11.58	DEHR33D221KC3B
	270	±10	R	7	6.0	7.5	5.0	490-4117-ND	.22	1.62	11.58	DEHR33D271KC3B
3.15	150	±10	R	7	6.0	7.5	6.0	490-4130-ND	.24	1.76	12.55	DEHR33F151KC3B
	180	±10	R	7	6.0	7.5	6.0	490-4132-ND	.25	1.86	13.25	DEHR33F181KC3B
	220	±10	R	7	6.0	7.5	6.0	490-4134-ND	.24	1.76	12.55	DEHR33F221KC3B
	270	±10	R	7	6.0	7.5	6.0	490-4136-ND	.24	1.76	12.55	DEHR33F271KC3B

Monolithic Ceramic Chip Capacitors – GJM Series

Size Code	Dimensions – mm L	W	e	g (min.)
0201	0.6±-0.03	0.3±-0.03	0.1 ~ 0.2	0.2
0402	1.0±-0.05	0.5±-0.05	0.15 ~ 0.3	0.4

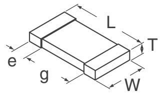

GJM Series: The Murata GJM Series is a high Q, ultra small capacitor series for high frequency applications in the 500MHz ~ 10GHz range, suitable for VCO and PA Module applications. The GJM Series of capacitors are made with copper electrodes for low ESR and low power consumption due to the high Q (low loss) performance. This series is offered in EIA sizes 0201 and 0402. **Features:** • Better Q and low ESR at VHF, UHF and microwave frequencies • Copper inner electrode • Low power consumption, yield ratio improvement due to the better Q or lower ESR • VCO or PA module applications **Operating Temperature Range:** • C0G (NP0): -55°C ~ 125°C

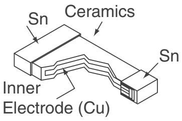

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
0201	C0G (NP0)	25	.75pF	±.25pF	0.3	490-3052-1-ND	.73	4.29	12.38	490-3052-2-ND	15,000	12.00/M	GJM0335C1ER75CB01D
			1.0pF			490-3053-1-ND	.80	4.75	13.69	490-3053-2-ND	15,000	13.00/M	GJM0335C1E1R0CB01D
			1.1pF			490-3054-1-ND	.80	4.75	13.69	490-3054-2-ND	15,000	13.00/M	GJM0335C1E1R1CB01D
			1.2pF			490-3055-1-ND	.80	4.75	13.69	490-3055-2-ND	15,000	13.00/M	GJM0335C1E1R2CB01D
			1.3pF			490-3056-1-ND	.80	4.75	13.69	490-3056-2-ND	15,000	13.00/M	GJM0335C1E1R3CB01D
			1.5pF	±.25pF	0.3	490-3057-1-ND	.80	4.75	13.69	490-3057-2-ND	15,000	13.00/M	GJM0335C1E1R5CB01D
			1.6pF			490-3058-1-ND	.80	4.75	13.69	490-3058-2-ND	15,000	13.00/M	GJM0335C1E1R6CB01D
			1.8pF			490-3059-1-ND	.80	4.75	13.69	490-3059-2-ND	15,000	13.00/M	GJM0335C1E1R8CB01D
			2.0pF			490-3060-1-ND	.80	4.75	13.69	490-3060-2-ND	15,000	13.00/M	GJM0335C1E2R0CB01D
			2.2pF			490-3061-1-ND	.80	4.75	13.69	490-3061-2-ND	15,000	13.00/M	GJM0335C1E2R2CB01D
			2.4pF	±.25pF	0.3	490-3062-1-ND	.80	4.75	13.69	490-3062-2-ND	15,000	13.00/M	GJM0335C1E2R4CB01D
			2.7pF			490-3063-1-ND	.80	4.75	13.69	490-3063-2-ND	15,000	13.00/M	GJM0335C1E2R7CB01D
			3.0pF			490-3064-1-ND	.80	4.75	13.69	490-3064-2-ND	15,000	13.00/M	GJM0335C1E3R0CB01D
			3.3pF			490-3065-1-ND	.80	4.75	13.69	490-3065-2-ND	15,000	13.00/M	GJM0335C1E3R3CB01D
			3.6pF			490-3066-1-ND	.80	4.75	13.69	490-3066-2-ND	15,000	13.00/M	GJM0335C1E3R6CB01D
			3.9pF	±.25pF	0.3	490-3067-1-ND	.80	4.75	13.69	490-3067-2-ND	15,000	13.00/M	GJM0335C1E3R9CB01D
			4.0pF			490-3068-1-ND	.80	4.75	13.69	490-3068-2-ND	15,000	13.00/M	GJM0335C1E4R0CB01D
			4.3pF			490-3069-1-ND	.80	4.75	13.69	490-3069-2-ND	15,000	13.00/M	GJM0335C1E4R3CB01D
			4.7pF			490-3070-1-ND	.80	4.75	13.69	490-3070-2-ND	15,000	13.00/M	GJM0335C1E4R7CB01D
			5.0pF			490-3071-1-ND	.80	4.75	13.69	490-3071-2-ND	15,000	13.00/M	GJM0335C1E5R0CB01D
			5.1pF	±.25pF	0.3	490-3072-1-ND	.80	4.75	13.69	490-3072-2-ND	15,000	13.00/M	GJM0335C1E5R1CB01D
			5.6pF			490-3073-1-ND	.80	4.75	13.69	490-3073-2-ND	15,000	13.00/M	GJM0335C1E5R6CB01D
			6.0pF			490-3074-1-ND	.80	4.75	13.69	490-3074-2-ND	15,000	13.00/M	GJM0335C1E6R0CB01D
			6.8pF			490-3076-1-ND	.80	4.75	13.69	490-3076-2-ND	15,000	13.00/M	GJM0335C1E6R8CB01D
0402	C0G (NP0)	50	1.0pF	±.25pF	0.5	490-3083-1-ND	.84	4.94	14.25	490-3083-2-ND	10,000	14.00/M	GJM1555C1H1R0CB01D
			1.1pF			490-3084-1-ND	.62	3.64	10.50	490-3084-2-ND	10,000	10.00/M	GJM1555C1H1R1CB01D
			1.2pF			490-3085-1-ND	.62	3.64	10.50	490-3085-2-ND	10,000	10.00/M	GJM1555C1H1R2CB01D
			1.3pF			490-3086-1-ND	.62	3.64	10.50	490-3086-2-ND	10,000	10.00/M	GJM1555C1H1R3CB01D
			1.5pF			490-3087-1-ND	.62	3.64	10.50	490-3087-2-ND	10,000	10.00/M	GJM1555C1H1R5CB01D
			1.6pF	±.25pF	0.5	490-3088-1-ND	.62	3.64	10.50	490-3088-2-ND	10,000	10.00/M	GJM1555C1H1R6CB01D
			1.8pF			490-3089-1-ND	.62	3.64	10.50	490-3089-2-ND	10,000	10.00/M	GJM1555C1H1R8CB01D
			2.0pF			490-3090-1-ND	.62	3.64	10.50	490-3090-2-ND	10,000	10.00/M	GJM1555C1H2R0CB01D
			2.2pF			490-3091-1-ND	.62	3.64	10.50	490-3091-2-ND	10,000	10.00/M	GJM1555C1H2R2CB01D
			2.4pF			490-3092-1-ND	.62	3.64	10.50	490-3092-2-ND	10,000	10.00/M	GJM1555C1H2R4CB01D
			2.7pF	±.25pF	0.5	490-3093-1-ND	.62	3.64	10.50	490-3093-2-ND	10,000	10.00/M	GJM1555C1H2R7CB01D
			3.0pF			490-3094-1-ND	.62	3.64	10.50	490-3094-2-ND	10,000	10.00/M	GJM1555C1H3R0CB01D
			3.3pF			490-3095-1-ND	.62	3.64	10.50	490-3095-2-ND	10,000	10.00/M	GJM1555C1H3R3CB01D
			3.6pF			490-3096-1-ND	.62	3.64	10.50	490-3096-2-ND	10,000	10.00/M	GJM1555C1H3R6CB01D
			3.9pF			490-3097-1-ND	.62	3.64	10.50	490-3097-2-ND	10,000	10.00/M	GJM1555C1H3R9CB01D
			4.0pF	±.25pF	0.5	490-3098-1-ND	.62	3.64	10.50	490-3098-2-ND	10,000	10.00/M	GJM1555C1H4R0CB01D
			4.3pF			490-3099-1-ND	.62	3.64	10.50	490-3099-2-ND	10,000	10.00/M	GJM1555C1H4R3CB01D
			4.7pF			490-3100-1-ND	.62	3.64	10.50	490-3100-2-ND	10,000	10.00/M	GJM1555C1H4R7CB01D
			5.0pF			490-3101-1-ND	.62	3.64	10.50	490-3101-2-ND	10,000	10.00/M	GJM1555C1H5R0CB01D
			5.1pF			490-3102-1-ND	.62	3.64	10.50	490-3102-2-ND	10,000	10.00/M	GJM1555C1H5R1CB01D
			5.6pF	±.25pF	0.5	490-3103-1-ND	.62	3.64	10.50	490-3103-2-ND	10,000	10.00/M	GJM1555C1H5R6CB01D
			6.0pF			490-3104-1-ND	.62	3.64	10.50	490-3104-2-ND	10,000	10.00/M	GJM1555C1H6R0CB01D
			6.2pF			490-3105-1-ND	.62	3.64	10.50	490-3105-2-ND	10,000	10.00/M	GJM1555C1H6R2CB01D
			6.8pF			490-3106-1-ND	.62	3.64	10.50	490-3106-2-ND	10,000	10.00/M	GJM1555C1H6R8CB01D
			7.0pF			490-3107-1-ND	.62	3.64	10.50	490-3107-2-ND	10,000	10.00/M	GJM1555C1H7R0CB01D
			7.5pF	±.25pF	0.5	490-3108-1-ND	.62	3.64	10.50	490-3108-2-ND	10,000	10.00/M	GJM1555C1H7R5CB01D
			9.0pF	±.25pF		490-3111-1-ND	.62	3.64	10.50	490-3111-2-ND	10,000	10.00/M	GJM1555C1H9R0CB01D
			9.1pF	±.25pF		490-3112-1-ND	.62	3.64	10.50	490-3112-2-ND	10,000	10.00/M	GJM1555C1H9R1CB01D
			12pF	±5%		490-3115-1-ND	.62	3.64	10.50	490-3115-2-ND	10,000	10.00/M	GJM1555C1H120JB01D
			15pF	±5%		490-3117-1-ND	.62	3.64	10.50	490-3117-2-ND	10,000	10.00/M	GJM1555C1H150JB01D
			18pF	±5%		490-3119-1-ND	.62	3.64	10.50	490-3119-2-ND	10,000	10.00/M	GJM1555C1H180JB01D

Multilayer Ceramic Chip Capacitor Arrays GNM Series

GNM Series: Murata's capacitor array offering (GNM Series) includes the following benefits: • Placement cost savings (one placement cycle instead of four or two) • High density mounting due to real estate savings • Capacitor arrays offered in two or four capacitor components **Features:** • High density mounting due to mounting space saving • Mounting cost saving **Applications:** • General electronic equipment • Cellular phones, pagers, camcorders, personal computers, LCD **Operating Temperature Range:** • X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

Size Code	Dimensions – mm L	W	P
0504	1.37±0.15	1.0±0.15	0.64±0.05
0805	2.0±0.15	1.250±0.15	1.0±0.1 (2-element) 0.5±0.05 (4-element)
1206	3.2±0.15	1.6±0.15	0.8±0.1

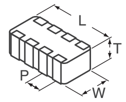

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
						2–Elements							
0504	X7R	25	2200pF	±20%	0.6	490-3399-1-ND	.57	4.86	20.25	490-3399-2-ND	4,000	23.00/M	GNM1M2R71E222MA01D
		25	4700pF			490-3400-1-ND	.57	4.86	20.25	490-3400-2-ND	4,000	23.00/M	GNM1M2R71E472MA01D
		25	10000pF			490-3401-1-ND	.57	4.86	20.25	490-3401-2-ND	4,000	23.00/M	GNM1M2R71E103MA01D
		16	22000pF			490-3402-1-ND	.61	5.22	21.75	490-3402-2-ND	4,000	24.00/M	GNM1M2R71C223MA01D
		16	47000pF			490-3403-1-ND	.64	5.49	22.88	490-3403-2-ND	4,000	26.00/M	GNM1M2R71C473MA01D
	X5R	10	.1µF	±20%	0.6	490-3404-1-ND	.62	5.34	22.25	490-3404-2-ND	4,000	25.00/M	GNM1M2R61A104MA01D
		10	1.0µF		0.8	490-3405-1-ND	1.25	10.68	44.50	490-3405-2-ND	4,000	49.84/M	GNM1M2R61A105ME14D
		6.3	1.0µF		0.8	490-3406-1-ND	.68	5.82	24.25	490-3406-2-ND	4,000	27.00/M	GNM1M2R60J105ME12D
0805	X5R	16	1.0µF	±20%	0.85	490-3414-1-ND	1.06	9.06	37.75	490-3414-2-ND	4,000	42.00/M	GNM212R61C105MA16D
		10	1.0µF			490-3413-1-ND	1.00	8.61	35.88	490-3413-2-ND	4,000	40.00/M	GNM212R61A105MA13D
						4–Elements							
0805	X7R	50	1000pF	±20%	0.6	490-3407-1-ND	.92	7.86	32.75	490-3407-2-ND	4,000	37.00/M	GNM214R71H102MA01D
		25	2200pF		0.6	490-3408-1-ND	.98	8.40	35.00	490-3408-2-ND	4,000	39.00/M	GNM214R71E222MA01D
		25	4700pF		0.6	490-3409-1-ND	.98	8.40	35.00	490-3409-2-ND	4,000	39.00/M	GNM214R71E472MA01D
		25	10000pF		0.6	490-3410-1-ND	.92	7.86	32.75	490-3410-2-ND	4,000	37.00/M	GNM214R71E103MA01D
		16	22000pF		0.85	490-3411-1-ND	1.03	8.79	36.63	490-3411-2-ND	4,000	41.00/M	GNM214R71C223MA01D
		16	47000pF		0.85	490-3412-1-ND	.96	8.22	34.25	490-3412-2-ND	4,000	38.00/M	GNM214R71C473MA01D
1206	X7R	16	47000pF	±20%	1.0	490-3443-1-ND	2.11	18.06	75.25	490-3443-2-ND	3,000	84.00/M	GNM314R71C473MA01L
		16	68000pF		1.0	490-3444-1-ND	2.75	23.55	98.13	490-3444-2-ND	3,000	109.90/M	GNM314R71C683MA01L
		6.3	1.0µF		1.15	490-3446-1-ND	3.03	25.98	108.25	490-3446-2-ND	3,000	121.00/M	GNM314R70J105MA01L

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Multilayer Ceramic Chip Capacitors

GRM Series:

The Murata GRM series is a complete line of ceramic chip capacitors with a wide range of voltages and sizes. These capacitors have temperature characteristics ranging from C0G to Z5U. GRM series is offered with a Nickel (Ni) barrier termination plated with Tin (Sn), highly resistant to migration. Stringent dimensional tolerances allow highly reliable, high-speed automatic chip placement on PCBs.

GRM Hi-Cap Series:

The Murata Hi-Cap, Ta replacement product lineup is available with capacitance of 1µF and larger, in voltages of 6.3V ~ 50V. Why use ceramic chips over Ta and Al capacitors? Ceramic chips offer better reliability, electrical performance, no polarity, and allow design engineers to downsize designs with various package options. This line of high volumetric multilayer capacitance ceramic chip capacitors (MLCC) has excellent high frequency noise absorption performance compared to Ta and Al caps. For bypass/decoupling applications, MLCC is equivalent to 1/2 to 1/5 the capacitance value of a Ta capacitor because impedance (ESR) of MLCC is lower at higher frequencies (above 100kHz) Consider Murata Hi-Cap as your Ta capacitor replacement.

Operating Temperature Range:

- C0G (NP0): -55°C ~ 125°C • U2J: 25°C ~ 85°C • X7R: -55°C ~ 125°C • X6S: -55°C ~ 105°C • X5R: -55°C ~ 85°C • Y5V: -30°C ~ 85°C • Z5U: 10°C ~ 85°C

Size Code	Dimensions (mm) L	W	e
01005	0.4	0.2	0.07 ~ 0.14
0201	0.6	0.3	0.1 ~ 0.2
0402	1	0.5	0.15 ~ 0.3
0603	1.6	0.8	0.2 ~ 0.5
0805	2	1.25	0.2 ~ 0.7
1206	3.2	1.6	0.3 ~ 0.8
1210	3.2	2.5	0.3
1808	4.5	2	0.3
1812	4.5	3.2	0.3
2220	5.7	5	0.3

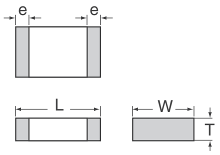

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
01005	C0G (NP0)	16	7.5pF	±0.5pF	0.2	490-4502-1-ND	5.28	31.20	90.00	490-4502-2-ND	20,000	86.40/M	GRM0225C1C7R5DD04D
			8pF	±0.5pF	0.2	490-4503-1-ND	2.32	13.72	39.56	490-4503-2-ND	20,000	38.00/M	GRM0225C1C8R0DD01D
			8.2pF	±0.5pF	0.2	490-4504-1-ND	2.32	13.72	39.56	490-4504-2-ND	20,000	38.00/M	GRM0225C1C8R2DD01D
			9pF	±0.5pF	0.2	490-4505-1-ND	2.32	13.72	39.56	490-4505-2-ND	20,000	38.00/M	GRM0225C1C9R0DD01D
			9.1pF	±0.5pF	0.2	490-4506-1-ND	2.64	15.61	45.02	490-4506-2-ND	20,000	43.22/M	GRM0225C1C9R1DD01D
			10pF	±5%	0.2	490-4507-1-ND	2.32	13.72	39.56	490-4507-2-ND	20,000	38.00/M	GRM0225C1C100JD01D
			11pF	±5%	0.2	490-4508-1-ND	2.17	12.81	36.94	490-4508-2-ND	20,000	35.46/M	GRM0225C1C110JD01D
			12pF	±5%	0.2	490-4509-1-ND	2.32	13.72	39.56	490-4509-2-ND	20,000	38.00/M	GRM0225C1C120JD01D
			13pF	±5%	0.2	490-4510-1-ND	2.64	15.61	45.02	490-4510-2-ND	20,000	43.22/M	GRM0225C1C130JD01D
			15pF	±5%	0.2	490-4511-1-ND	2.32	13.72	39.56	490-4511-2-ND	20,000	37.98/M	GRM0225C1C150JD04D
			18pF	±5%	0.2	490-4525-1-ND	2.67	15.78	45.53	490-4525-2-ND	20,000	43.71/M	GRM0225C1C180JD01D
			22pF	±5%	0.2	490-4526-1-ND	2.32	13.72	39.56	490-4526-2-ND	20,000	38.00/M	GRM0225C1C220JD01D
			27pF	±5%	0.2	490-4527-1-ND	2.32	13.72	39.56	490-4527-2-ND	20,000	38.00/M	GRM0225C1C270JD01D
			39pF	±5%	0.2	490-4529-1-ND	2.32	13.72	39.56	490-4529-2-ND	20,000	38.00/M	GRM0225C1C390JD01D
			47pF	±5%	0.2	490-4530-1-ND	2.32	13.72	39.56	490-4530-2-ND	20,000	38.00/M	GRM0225C1C470JD01D
	X5R	6.3	680pF	±10%	0.2	490-4531-1-ND	2.64	15.61	45.02	490-4531-2-ND	20,000	43.22/M	GRM022R60J681KE19D
			1000pF	±10%	0.2	490-4532-1-ND	2.29	13.52	39.00	490-4532-2-ND	20,000	37.00/M	GRM022R60J102KE19D
			1500pF	±10%	0.2	490-4533-1-ND	2.64	15.61	45.02	490-4533-2-ND	20,000	43.22/M	GRM022R60J152KE19D
			2200pF	±10%	0.2	490-4534-1-ND	2.64	15.61	45.02	490-4534-2-ND	20,000	43.22/M	GRM022R60J222KE19D
			3300pF	±10%	0.2	490-4535-1-ND	2.64	15.61	45.02	490-4535-2-ND	20,000	43.22/M	GRM022R60J332KE19D
			4700pF	±10%	0.2	490-4536-1-ND	2.64	15.61	45.02	490-4536-2-ND	20,000	43.22/M	GRM022R60J472KE19D
			6800pF	±10%	0.2	490-4537-1-ND	2.64	15.61	45.02	490-4537-2-ND	20,000	43.22/M	GRM022R60J682KE19D
			10000pF	±10%	0.2	490-4538-1-ND	2.29	13.52	39.00	490-4538-2-ND	20,000	37.00/M	GRM022R60J103KE19D
0201	C0G (NP0)	25	.5pF	±.25pF	0.3	490-1241-1-ND	.26	1.56	4.50	490-1241-2-ND	15,000	4.00/M	GRM0335C1ER50CD01D
			1.0pF	±.25pF	0.3	490-3122-1-ND	.26	1.56	4.50	490-3122-2-ND	15,000	4.00/M	GRM0335C1E1R0CD01D
			1.1pF	±.25pF	0.3	490-3123-1-ND	.29	1.69	4.88	490-3123-2-ND	15,000	4.68/M	GRM0335C1E1R1CD01D
			1.2pF	±.25pF	0.3	490-1242-1-ND	.26	1.56	4.50	490-1242-2-ND	15,000	4.00/M	GRM0335C1E1R2CD01D
			1.3pF	±.25pF	0.3	490-3124-1-ND	.43	2.54	7.31	490-3124-2-ND	15,000	7.02/M	GRM0335C1E1R3CD01D
			1.5pF	±.25pF	0.3	490-1243-1-ND	.26	1.56	4.50	490-1243-2-ND	15,000	4.00/M	GRM0335C1E1R5CD01D
			1.8pF	±.25pF	0.3	490-1244-1-ND	.26	1.56	4.50	490-1244-2-ND	15,000	8.64/M	GRM0335C1E1R8CD01D
			2.0pF	±.25pF	0.3	490-1245-1-ND	.26	1.56	4.50	490-1245-2-ND	15,000	4.00/M	GRM0335C1E2R0CD01D
			2.2pF	±.25pF	0.3	490-1246-1-ND	.26	1.56	4.50	490-1246-2-ND	15,000	4.00/M	GRM0335C1E2R2CD01D
			2.4pF	±.25pF	0.3	490-1247-1-ND	.53	3.12	9.00	490-1247-2-ND	15,000	8.64/M	GRM0335C1E2R4CD01D
			3.0pF	±.25pF	0.3	490-3127-1-ND	.26	1.56	4.50	490-3127-2-ND	15,000	4.00/M	GRM0335C1E3R0CD01D
			3.3pF	±.25pF	0.3	490-1248-1-ND	.26	1.56	4.50	490-1248-2-ND	15,000	4.00/M	GRM0335C1E3R3CD01D
			3.6pF	±.25pF	0.3	490-1249-1-ND	.53	3.12	9.00	490-1249-2-ND	15,000	8.64/M	GRM0335C1E3R6CD01D
			4.0pF	±.25pF	0.3	490-3129-1-ND	.26	1.56	4.50	490-3129-2-ND	15,000	4.00/M	GRM0335C1E4R0CD01D
			4.3pF	±.25pF	0.3	490-3130-1-ND	.43	2.54	7.31	490-3130-2-ND	15,000	7.02/M	GRM0335C1E4R3CD01D
			4.7pF	±.25pF	0.3	490-3131-1-ND	.26	1.56	4.50	490-3131-2-ND	15,000	4.00/M	GRM0335C1E4R7CD01D
			5.0pF	±.25pF	0.3	490-3132-1-ND	.26	1.56	4.50	490-3132-2-ND	15,000	4.00/M	GRM0335C1E5R0CD01D
			5.1pF	±.5pF	0.3	490-3133-1-ND	.43	2.54	7.31	490-3133-2-ND	15,000	7.02/M	GRM0335C1E5R1DD01D
			6.0pF	±.5pF	0.3	490-3135-1-ND	.26	1.56	4.50	490-3135-2-ND	15,000	4.00/M	GRM0335C1E6R0DD01D
			7.0pF	±.5pF	0.3	490-1250-1-ND	.26	1.56	4.50	490-1250-2-ND	15,000	4.00/M	GRM0335C1E7R0DD01D
			8.0pF	±.5pF	0.3	490-3139-1-ND	.26	1.56	4.50	490-3139-2-ND	15,000	4.00/M	GRM0335C1E8R0DD01D
			9.0pF	±.5pF	0.3	490-1251-1-ND	.26	1.56	4.50	490-1251-2-ND	15,000	4.00/M	GRM0335C1E9R0DD01D
			10pF	±5%	0.3	490-3142-1-ND	.26	1.56	4.50	490-3142-2-ND	15,000	4.00/M	GRM0335C1E100JD01D
			12pF	±5%	0.3	490-3144-1-ND	.26	1.56	4.50	490-3144-2-ND	15,000	4.00/M	GRM0335C1E120JD01D
			13pF	±5%	0.3	490-3145-1-ND	.43	2.54	7.31	490-3145-2-ND	15,000	7.02/M	GRM0335C1E130JD01D
			15pF	±5%	0.3	490-3146-1-ND	.26	1.56	4.50	490-3146-2-ND	15,000	4.00/M	GRM0335C1E150JD01D
			18pF	±5%	0.3	490-3148-1-ND	.26	1.56	4.50	490-3148-2-ND	15,000	4.00/M	GRM0335C1E180JD01D
			20pF	±5%	0.3	490-1252-1-ND	.26	1.56	4.50	490-1252-2-ND	15,000	4.00/M	GRM0335C1E200JD01D
			22pF	±5%	0.3	490-1253-1-ND	.26	1.56	4.50	490-1253-2-ND	15,000	4.00/M	GRM0335C1E220JD01D
			24pF	±5%	0.3	490-3149-1-ND	.43	2.54	7.31	490-3149-2-ND	15,000	7.02/M	GRM0335C1E240JD01D
			27pF	±5%	0.3	490-3150-1-ND	.26	1.56	4.50	490-3150-2-ND	15,000	7.02/M	GRM0335C1E270JD01D
			30pF	±5%	0.3	490-1254-1-ND	.53	3.12	9.00	490-1254-2-ND	15,000	8.64/M	GRM0335C1E300JD01D
			33pF	±5%	0.3	490-1255-1-ND	.26	1.56	4.50	490-1255-2-ND	15,000	4.00/M	GRM0335C1E330JD01D
			39pF	±5%	0.3	490-3152-1-ND	.26	1.56	4.50	490-3152-2-ND	15,000	4.00/M	GRM0335C1E390JD01D
			47pF	±5%	0.3	490-1256-1-ND	.26	1.56	4.50	490-1256-2-ND	15,000	4.00/M	GRM0335C1E470JD01D
			68pF	±5%	0.3	490-3157-1-ND	.26	1.56	4.50	490-3157-2-ND	15,000	4.00/M	GRM0335C1E680JD01D
			82pF	±5%	0.3	490-1257-1-ND	.26	1.56	4.50	490-1257-2-ND	15,000	4.00/M	GRM0335C1E820JD01D
			100pF	±5%	0.3	490-3160-1-ND	.26	1.56	4.50	490-3160-2-ND	15,000	8.64/M	GRM0335C1E101JD01D
	U2J	50	15pF	±5%	0.3	490-3883-1-ND	.46	2.73	7.88	490-3883-2-ND	15,000	8.00/M	GRM0337U1H150JD01D
		25	100pF	±5%	0.3	490-3882-1-ND	.46	2.73	7.88	490-3882-2-ND	15,000	8.00/M	GRM0337U1E101JD01D
	X7R	25	100pF	±10%	0.3	490-3172-1-ND	.26	1.56	4.50	490-3172-2-ND	15,000	4.00/M	GRM033R71E101KA01D
			150pF	±10%	0.3	490-3174-1-ND	.26	1.56	4.50	490-3174-2-ND	15,000	4.00/M	GRM033R71E151KA01D
			220pF	±10%	0.3	490-3176-1-ND	.26	1.56	4.50	490-3176-2-ND	15,000	4.00/M	GRM033R71E221KA01D
			330pF	±10%	0.3	490-3178-1-ND	.26	1.56	4.50	490-3178-2-ND	15,000	4.00/M	GRM033R71E331KA01D
			470pF	±10%	0.3	490-3180-1-ND	.26	1.56	4.50	490-3180-2-ND	15,000	4.00/M	GRM033R71E471KA01D
			680pF	±10%	0.3	490-3182-1-ND	.26	1.56	4.50	490-3182-2-ND	15,000	4.00/M	GRM033R71E681KA01D
			820pF	±10%	0.3	490-3183-1-ND	.22	1.30	3.75	490-3183-2-ND	15,000	4.00/M	GRM033R71E821KA01D
			1000pF	±10%	0.3	490-3184-1-ND	.26	1.56	4.50	490-3184-2-ND	15,000	4.00/M	GRM033R71E102KA01D
			1500pF	±10%	0.3	490-3185-1-ND	.26	1.56	4.50	490-3185-2-ND	15,000	4.00/M	GRM033R71E152KA01D
		16	100pF	±10%	0.3	490-1258-1-ND	.53	3.12	9.00	490-1258-2-ND	15,000	8.64/M	GRM033R71C101KD01D
			150pF	±10%	0.3	490-3186-1-ND	.23	1.37	3.94	490-3186-2-ND	15,000	4.00/M	GRM033R71C151KD01D
			220pF	±10%	0.3	490-3187-1-ND	.26	1.56	4.50	490-3187-2-ND	15,000	4.00/M	GRM033R71C221KD01D
			330pF	±10%	0.3	490-3189-1-ND	.43	2.54	7.31	490-3189-2-ND	15,000	7.02/M	GRM033R71C331KD01D
			470pF	±10%	0.3	490-1259-1-ND	.31	1.82	5.25	490-1259-2-ND	15,000	5.00/M	GRM033R71C471KD01D
			680pF	±10%	0.3	490-1260-1-ND	.53	3.12	9.00	490-1260-2-ND	15,000	8.64/M	GRM033R71C681KD01D
			1000pF	±10%	0.3	490-1261-1-ND	.31	1.82	5.25	490-1261-2-ND	15,000	5.00/M	GRM033R71C102KD01D
			3300pF	±10%	0.3	490-3191-1-ND	.26	1.56	4.50	490-3191-2-ND	15,000	4.00/M	GRM033R71C332KA88D
		10	4700pF	±10%	0.3	490-3192-1-ND	.26	1.56	4.50	490-3192-2-ND	15,000	4.00/M	GRM033R71A472KA01D
			6800pF	±10%	0.3	490-3193-1-ND	.26	1.56	4.50	490-3193-2-ND	15,000	4.00/M	GRM033R71A682KA01D
			10000pF	±10%	0.3	490-3194-1-ND	.26	1.56	4.50	490-3194-2-ND	15,000	4.00/M	GRM033R71A103KA01D
		6.3	10000pF	±10%	0.3	490-1262-1-ND	.26	1.56	4.50	490-1262-2-ND	15,000	4.00/M	GRM033R70J103KA01D
	X6S	4	68000pF	±10%	0.3	490-4513-1-ND	.36	2.15	6.19	490-4513-2-ND	15,000	6.00/M	GRM033C80G683KE19D
			.1µF	±10%	0.3	490-4514-1-ND	.43	2.54	7.31	490-4514-2-ND	15,000	7.00/M	GRM033C80G104KE19D
	X5R	10	1500pF	±10%	0.3	490-3161-1-ND	.26	1.56	4.50	490-3161-2-ND	15,000	4.00/M	GRM033R61A152KA01D
			2200pF	±10%	0.3	490-3162-1-ND	.26	1.56	4.50	490-3162-2-ND	15,000	4.00/M	GRM033R61A222KA01D
			3300pF	±10%	0.3	490-3163-1-ND	.26	1.56	4.50	490-3163-2-ND	15,000	4.00/M	GRM033R61A332KA01D

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0201	X5R	10	4700pF	±10%	0.3	490-3164-1-ND	.26	1.56	4.50	490-3164-2-ND	15,000	4.00/M	GRM033R61A472KA01D
			6800pF	±10%	0.3	490-3165-1-ND	.26	1.56	4.50	490-3165-2-ND	15,000	4.00/M	GRM033R61A682KA01D
			10000pF	±10%	0.3	490-3166-1-ND	.26	1.56	4.50	490-3166-2-ND	15,000	4.00/M	GRM033R61A103KA01D
		6.3	15000pF	±10%	0.3	490-3168-1-ND	.31	1.82	5.25	490-3168-2-ND	15,000	5.00/M	GRM033R60J153KE01D
			22000pF	±10%	0.3	490-3169-1-ND	.31	1.82	5.25	490-3169-2-ND	15,000	5.00/M	GRM033R60J223KE01D
			33000pF	±10%	0.3	490-3170-1-ND	.36	2.15	6.19	490-3170-2-ND	15,000	6.00/M	GRM033R60J333KE01D
			68000pF	±10%	0.3	490-3171-1-ND	.36	2.15	6.19	490-3171-2-ND	15,000	6.00/M	GRM033R60J683KE19D
			.1µF	±10%	0.3	490-3167-1-ND	.42	2.47	7.13	490-3167-2-ND	15,000	6.84/M	GRM033R60J104KE19D
	Y5V	10	4700pF	+80%, -20%	0.3	490-3197-1-ND	.40	2.34	6.75	490-3197-2-ND	15,000	6.00/M	GRM033F51A472ZD01D
			10000pF	+80%, -20%	0.3	490-3195-1-ND	.40	2.34	6.75	490-3195-2-ND	15,000	6.00/M	GRM033F51A103ZD01D
0402	C0G (NP0)	50	.5pF	±.25pF	0.5	490-1263-1-ND	.22	1.30	3.75	490-1263-2-ND	10,000	4.00/M	GRM1555C1HR50CZ01D
			.75pF	±.25pF	0.5	490-1264-1-ND	.22	1.30	3.75	490-1264-2-ND	10,000	4.00/M	GRM1555C1HR75CZ01D
			1.2pF	±.25pF	0.5	490-1265-1-ND	.22	1.30	3.75	490-1265-2-ND	10,000	4.00/M	GRM1555C1H1R2CZ01D
			1.5pF	±.25pF	0.5	490-1266-1-ND	.22	1.30	3.75	490-1266-2-ND	10,000	4.00/M	GRM1555C1H1R5CZ01D
			1.8pF	±.25pF	0.5	490-3203-1-ND	.22	1.30	3.75	490-3203-2-ND	10,000	4.00/M	GRM1555C1H1R8CZ01D
			2.2pF	±.25pF	0.5	490-1267-1-ND	.22	1.30	3.75	490-1267-2-ND	10,000	4.00/M	GRM1555C1H2R2CZ01D
			2.4pF	±.25pF	0.5	490-1268-1-ND	.34	2.02	5.81	490-1268-2-ND	10,000	5.58/M	GRM1555C1H2R4CZ01D
			2.7pF	±.25pF	0.5	490-1269-1-ND	.22	1.30	3.75	490-1269-2-ND	10,000	4.00/M	GRM1555C1H2R7CZ01D
			3.0pF	±.25pF	0.5	490-3205-1-ND	.22	1.30	3.75	490-3205-2-ND	10,000	4.00/M	GRM1555C1H3R0CZ01D
			3.3pF	±.25pF	0.5	490-1270-1-ND	.22	1.30	3.75	490-1270-2-ND	10,000	5.58/M	GRM1555C1H3R3CZ01D
			3.6pF	±.25pF	0.5	490-1271-1-ND	.34	2.02	5.81	490-1271-2-ND	10,000	5.58/M	GRM1555C1H3R6CZ01D
			3.9pF	±.25pF	0.5	490-1272-1-ND	.22	1.30	3.75	490-1272-2-ND	10,000	4.00/M	GRM1555C1H3R9CZ01D
			4.0pF	±.25pF	0.5	490-3206-1-ND	.22	1.30	3.75	490-3206-2-ND	10,000	4.00/M	GRM1555C1H4R0CZ01D
			4.7pF	±.25pF	0.5	490-1273-1-ND	.22	1.30	3.75	490-1273-2-ND	10,000	4.00/M	GRM1555C1H4R7CZ01D
			5.0pF	±.25pF	0.5	490-1274-1-ND	.22	1.30	3.75	490-1274-2-ND	10,000	4.00/M	GRM1555C1H5R0CZ01D
			5.1pF	±.5pF	0.5	490-3208-1-ND	.30	1.76	5.06	490-3208-2-ND	10,000	4.86/M	GRM1555C1H5R1DZ01D
			5.6pF	±.5pF	0.5	490-1275-1-ND	.22	1.30	3.75	490-1275-2-ND	10,000	4.00/M	GRM1555C1H5R6DZ01D
			6.0pF	±.5pF	0.5	490-3209-1-ND	.22	1.30	3.75	490-3209-2-ND	10,000	4.00/M	GRM1555C1H6R0DZ01D
			6.8pF	±.5pF	0.5	490-1276-1-ND	.22	1.30	3.75	490-1276-2-ND	10,000	4.00/M	GRM1555C1H6R8DZ01D
			7.0pF	±.5pF	0.5	490-1277-1-ND	.22	1.30	3.75	490-1277-2-ND	10,000	4.00/M	GRM1555C1H7R0DZ01D
			7.5pF	±.5pF	0.5	490-3211-1-ND	.18	1.04	3.00	490-3211-2-ND	10,000	3.00/M	GRM1555C1H7R5DZ01D
			8.0pF	±.5pF	0.5	490-3212-1-ND	.22	1.30	3.75	490-3212-2-ND	10,000	4.00/M	GRM1555C1H8R0DZ01D
			9.0pF	±.5pF	0.5	490-3214-1-ND	.22	1.30	3.75	490-3214-2-ND	10,000	4.00/M	GRM1555C1H9R0DZ01D
			10pF	±5%	0.5	490-1278-1-ND	.22	1.30	3.75	490-1278-2-ND	10,000	5.76/M	GRM1555C1H100JZ01D
			12pF	±5%	0.5	490-1279-1-ND	.22	1.30	3.75	490-1279-2-ND	10,000	5.58/M	GRM1555C1H120JZ01D
			15pF	±5%	0.5	490-1280-1-ND	.22	1.30	3.75	490-1280-2-ND	10,000	5.58/M	GRM1555C1H150JZ01D
			18pF	±5%	0.5	490-1281-1-ND	.22	1.30	3.75	490-1281-2-ND	10,000	5.58/M	GRM1555C1H180JZ01D
			20pF	±5%	0.5	490-1282-1-ND	.33	1.95	5.63	490-1282-2-ND	10,000	5.00/M	GRM1555C1H200JZ01D
			22pF	±5%	0.5	490-1283-1-ND	.22	1.30	3.75	490-1283-2-ND	10,000	5.58/M	GRM1555C1H220JZ01D
			24pF	±5%	0.5	490-3219-1-ND	.34	2.02	5.81	490-3219-2-ND	10,000	6.00/M	GRM1555C1H240JZ01D
			27pF	±5%	0.5	490-1284-1-ND	.22	1.30	3.75	490-1284-2-ND	10,000	5.58/M	GRM1555C1H270JZ01D
			30pF	±5%	0.5	490-1285-1-ND	.33	1.95	5.63	490-1285-2-ND	10,000	5.00/M	GRM1555C1H300JZ01D
			33pF	±5%	0.5	490-3220-1-ND	.22	1.30	3.75	490-3220-2-ND	10,000	4.86/M	GRM1555C1H330JZ01D
			39pF	±5%	0.5	490-1286-1-ND	.22	1.30	3.75	490-1286-2-ND	10,000	5.58/M	GRM1555C1H390JZ01D
			43pF	±5%	0.5	490-3222-1-ND	.39	2.28	6.56	490-3222-2-ND	10,000	6.30/M	GRM1555C1H430JZ01D
			47pF	±5%	0.5	490-1287-1-ND	.22	1.30	3.75	490-1287-2-ND	10,000	5.58/M	GRM1555C1H470JZ01D
			51pF	±5%	0.5	490-3223-1-ND	.34	2.02	5.81	490-3223-2-ND	10,000	6.00/M	GRM1555C1H510JZ01D
			56pF	±5%	0.5	490-1288-1-ND	.21	1.24	3.56	490-1288-2-ND	10,000	3.00/M	GRM1555C1H560JD01D
			68pF	±5%	0.5	490-1289-1-ND	.22	1.30	3.75	490-1289-2-ND	10,000	4.00/M	GRM1555C1H680JZ01D
			75pF	±5%	0.5	490-3225-1-ND	.33	1.95	5.63	490-3225-2-ND	10,000	5.00/M	GRM1555C1H750JZ01D
			82pF	±5%	0.5	490-1290-1-ND	.22	1.30	3.75	490-1290-2-ND	10,000	4.00/M	GRM1555C1H820JZ01D
			100pF	±5%	0.5	490-3458-1-ND	.22	1.30	3.75	490-3458-2-ND	10,000	3.60/M	GRM1555C1H101JZ01D
			110pF	±5%	0.5	490-3227-1-ND	.40	2.34	6.75	490-3227-2-ND	10,000	6.00/M	GRM1555C1H111JA01D
			120pF	±5%	0.5	490-1292-1-ND	.34	2.02	5.81	490-1292-2-ND	10,000	6.00/M	GRM1555C1H121JA01D
			150pF	±5%	0.5	490-3229-1-ND	.30	1.76	5.06	490-3229-2-ND	10,000	6.30/M	GRM1555C1H151JA01D
			160pF	±5%	0.5	490-3230-1-ND	.51	2.99	8.63	490-3230-2-ND	10,000	8.28/M	GRM1555C1H161JA01D
			180pF	±5%	0.5	490-3231-1-ND	.36	2.15	6.19	490-3231-2-ND	10,000	6.00/M	GRM1555C1H181JA01D
			200pF	±5%	0.5	490-3232-1-ND	.51	2.99	8.63	490-3232-2-ND	10,000	8.28/M	GRM1555C1H201JA01D
			220pF	±5%	0.5	490-1293-1-ND	.37	2.21	6.38	490-1293-2-ND	10,000	7.38/M	GRM1555C1H221JA01D
			270pF	±5%	0.5	490-1294-1-ND	.47	2.80	8.06	490-1294-2-ND	10,000	9.72/M	GRM1555C1H271JA01D
			330pF	±5%	0.5	490-1295-1-ND	.47	2.80	8.06	490-1295-2-ND	10,000	8.00/M	GRM1555C1H331JA01D
			390pF	±5%	0.5	490-1296-1-ND	.50	2.93	8.44	490-1296-2-ND	10,000	8.00/M	GRM1555C1H391JA01D
			470pF	±5%	0.5	490-1297-1-ND	.50	2.93	8.44	490-1297-2-ND	10,000	8.00/M	GRM1555C1H471JA01D
			510pF	±5%	0.5	490-3237-1-ND	.54	3.19	9.19	490-3237-2-ND	10,000	9.00/M	GRM1555C1H511JA01D
			560pF	±5%	0.5	490-3238-1-ND	.51	2.99	8.63	490-3238-2-ND	10,000	8.00/M	GRM1555C1H561JA01D
			620pF	±5%	0.5	490-3239-1-ND	.50	2.93	8.44	490-3239-2-ND	10,000	8.00/M	GRM1555C1H621JA01D
			680pF	±5%	0.5	490-3240-1-ND	.51	2.99	8.63	490-3240-2-ND	10,000	8.00/M	GRM1555C1H681JA01D
			820pF	±5%	0.5	490-3242-1-ND	.64	3.77	10.88	490-3242-2-ND	10,000	10.00/M	GRM1555C1H821JA01D
			1000pF	±5%	0.5	490-3244-1-ND	.74	4.36	12.56	490-3244-2-ND	10,000	12.00/M	GRM1555C1H102JA01D
	X7R	100	4700pF	±10%	0.5	490-3885-1-ND	.31	1.82	5.25	490-3885-2-ND	10,000	5.00/M	GRM155R72A472KA01D
		50	220pF	±10%	0.5	490-1298-1-ND	.29	1.69	4.88	490-1298-2-ND	10,000	5.00/M	GRM155R71H221KA01D
			270pF	±10%	0.5	490-1299-1-ND	.31	1.82	5.25	490-1299-2-ND	10,000	5.00/M	GRM155R71H271KA01D
			470pF	±10%	0.5	490-1300-1-ND	.29	1.69	4.88	490-1300-2-ND	10,000	5.00/M	GRM155R71H471KA01D
			560pF	±10%	0.5	490-1301-1-ND	.41	2.41	6.94	490-1301-2-ND	10,000	6.66/M	GRM155R71H561KA01D
			680pF	±10%	0.5	490-1302-1-ND	.29	1.69	4.88	490-1302-2-ND	10,000	5.00/M	GRM155R71H681KA01D
			820pF	±10%	0.5	490-3250-1-ND	.28	1.63	4.69	490-3250-2-ND	10,000	5.00/M	GRM155R71H821KA01D
			1000pF	±10%	0.5	490-1303-1-ND	.22	1.30	3.75	490-1303-2-ND	10,000	4.00/M	GRM155R71H102KA01D
			1200pF	±10%	0.5	490-1304-1-ND	.30	1.76	5.06	490-1304-2-ND	10,000	5.00/M	GRM155R71H122KA01D
			1500pF	±10%	0.5	490-3245-1-ND	.25	1.50	4.31	490-3245-2-ND	10,000	4.00/M	GRM155R71H152KA01D
			2200pF	±10%	0.5	490-1305-1-ND	.22	1.30	3.75	490-1305-2-ND	10,000	4.00/M	GRM155R71H222KA01D
			2700pF	±10%	0.5	490-1306-1-ND	.30	1.76	5.06	490-1306-2-ND	10,000	5.00/M	GRM155R71H272KA01D
			3900pF	±10%	0.5	490-1307-1-ND	.30	1.76	5.06	490-1307-2-ND	10,000	5.00/M	GRM155R71H392KA01D
			4700pF	±10%	0.5	490-1308-1-ND	.22	1.30	3.75	490-1308-2-ND	10,000	4.00/M	GRM155R71H472KA01D
			6800pF	±10%	0.5	490-4515-1-ND	.29	1.69	4.88	490-4515-2-ND	10,000	4.00/M	GRM155R71H682KA88D
			10000pF	±10%	0.5	490-4516-1-ND	.22	1.30	3.75	490-4516-2-ND	10,000	3.00/M	GRM155R71H103KA88D
			15000pF	±10%	0.5	490-4517-1-ND	.31	1.82	5.25	490-4517-2-ND	10,000	4.00/M	GRM155R71H153KA12D
			22000pF	±10%	0.5	490-3884-1-ND	.31	1.82	5.25	490-3884-2-ND	10,000	5.00/M	GRM155R71H223KA12D
		25	4700pF	±10%	0.5	490-1309-1-ND	.22	1.30	3.75	490-1309-2-ND	10,000	4.00/M	GRM155R71E472KA01D
			6800pF	±10%	0.5	490-1310-1-ND	.25	1.50	4.31	490-1310-2-ND	10,000	4.00/M	GRM155R71E682KA01D
			8200pF	±10%	0.5	490-1311-1-ND	.53	3.12	9.00	490-1311-2-ND	10,000	8.64/M	GRM155R71E822KA01D
			10000pF	±10%	0.5	490-1312-1-ND	.22	1.30	3.75	490-1312-2-ND	10,000	4.00/M	GRM155R71E103KA01D
			15000pF	±10%	0.5	490-3251-1-ND	.31	1.82	5.25	490-3251-2-ND	10,000	5.00/M	GRM155R71E153KA61D
			22000pF	±10%	0.5	490-3252-1-ND	.31	1.82	5.25	490-3252-2-ND	10,000	5.00/M	GRM155R71E223KA61D
			33000pF	±10%	0.5	490-3253-1-ND	.46	2.73	7.88	490-3253-2-ND	10,000	8.00/M	GRM155R71E333KA88D
			47000pF	±10%	0.5	490-3254-1-ND	.36	2.15	6.19	490-3254-2-ND	10,000	6.00/M	GRM155R71E473KA88D
		16	10000pF	±10%	0.5	490-1313-1-ND	.22	1.30	3.75	490-1313-2-ND	10,000	4.00/M	GRM155R71C103KA01D
			15000pF	±10%	0.5	490-1314-1-ND	.30	1.76	5.06	490-1314-2-ND	10,000	5.00/M	GRM155R71C153KA01D
			22000pF	±10%	0.5	490-3256-1-ND	.29	1.69	4.88	490-3256-2-ND	10,000	5.00/M	GRM155R71C223KA01D
			.1µF	±10%	0.5	490-3261-1-ND	.25	1.50	4.31	490-3261-2-ND	10,000	4.00/M	GRM155R71C104KA88D
		10	33000pF	±10%	0.5	490-1315-1-ND	.37	2.21	6.38	490-1315-2-ND	10,000	6.00/M	GRM155R71A333KA01D
			47000pF	±10%	0.5	490-1316-1-ND	.30	1.76	5.06	490-1316-2-ND	10,000	5.00/M	GRM155R71A473KA01D
	X5R	10	68000pF	±10%	0.5	490-1317-1-ND	.92	5.46	15.75	490-1317-2-ND	10,000	15.12/M	GRM155R61A683KA01D
			.1µF	±10%	0.5	490-1318-1-ND	.29	1.69	4.88	490-1318-2-ND	10,000	5.00/M	GRM155R61A104KA01D
			.22µF	±10%	0.5	490-3910-1-ND	.77	4.55	13.13	490-3910-2-ND	10,000	13.00/M	GRM155R61A224KE19D
			.33µF	±10%	0.5	490-3263-1-ND	.91	5.40	15.56	490-3263-2-ND	10,000	15.00/M	GRM155R61A334KE15D

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Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0402	X5R	6.3	.47µF	±10%	0.5	490-3264-1-ND	.88	5.20	15.00	490-3264-2-ND	10,000	14.00/M	GRM155R61A474KE15D
			1µF	±10%	0.5	490-3890-1-ND	.74	4.36	12.56	490-3890-2-ND	10,000	12.00/M	GRM155R61A105KE15D
			.33µF	±10%	0.5	490-3265-1-ND	.91	5.40	15.56	490-3265-2-ND	10,000	15.00/M	GRM155R60J334KE01D
			.47µF	±10%	0.5	490-3266-1-ND	.88	5.20	15.00	490-3266-2-ND	10,000	14.00/M	GRM155R60J474KE19D
			1.0µF	±10%	0.5	490-1320-1-ND	.65	3.84	11.06	490-1320-2-ND	10,000	11.00/M	GRM155R60J105KE19D
			1.0µF	±20%	0.5	490-1319-1-ND	.80	4.75	13.69	490-1319-2-ND	10,000	13.00/M	GRM155R60J105ME19D
			2.2µF	±20%	0.5	490-4519-1-ND	3.65	21.58	62.25	490-4519-2-ND	10,000	47.00/M	GRM155R60J225ME15D
		4	2.2µF	±20%	0.5	490-4518-1-ND	3.65	21.58	62.25	490-4518-2-ND	10,000	47.00/M	GRM155R60G225ME15D
	Y5V	50	2200pF	+80, -20%	0.5	490-1321-1-ND	.30	1.76	5.06	490-1321-2-ND	10,000	5.00/M	GRM155F51H222ZA01D
			4700pF	+80, -20%	0.5	490-1322-1-ND	.30	1.76	5.06	490-1322-2-ND	10,000	5.00/M	GRM155F51H472ZA01D
			10000pF	+80, -20%	0.5	490-1323-1-ND	.23	1.37	3.94	490-1323-2-ND	10,000	4.00/M	GRM155F51H103ZA01D
		25	10000pF	+80, -20%	0.5	490-1324-1-ND	.23	1.37	3.94	490-1324-2-ND	10,000	4.00/M	GRM155F51E103ZA01D
			22000pF	+80, -20%	0.5	490-1325-1-ND	.23	1.37	3.94	490-1325-2-ND	10,000	4.00/M	GRM155F51E223ZA01D
			47000pF	+80, -20%	0.5	490-3270-1-ND	.23	1.37	3.94	490-3270-2-ND	10,000	4.00/M	GRM155F51E473ZA01D
			.1µF	+80, -20%	0.5	490-3271-1-ND	.22	1.30	3.75	490-3271-2-ND	10,000	4.00/M	GRM155F51E104ZA01D
		16	22000pF	+80, -20%	0.5	490-3272-1-ND	.23	1.37	3.94	490-3272-2-ND	10,000	4.00/M	GRM155F51C223ZA01D
			47000pF	+80, -20%	0.5	490-1326-1-ND	.23	1.37	3.94	490-1326-2-ND	10,000	4.00/M	GRM155F51C473ZA01D
			.1µF	+80, -20%	0.5	490-1327-1-ND	.22	1.30	3.75	490-1327-2-ND	10,000	4.00/M	GRM155F51C104ZA01D
			.22µF	+80, -20%	0.5	490-3273-1-ND	.40	2.34	6.75	490-3273-2-ND	10,000	6.00/M	GRM155F51C224ZA01D
			.47µF	+80, -20%	0.5	490-3274-1-ND	.44	2.60	7.50	490-3274-2-ND	10,000	7.00/M	GRM155F51C474ZA01D
		10	.33µF	+80, -20%	0.5	490-3275-1-ND	.70	4.16	12.00	490-3275-2-ND	10,000	11.52/M	GRM155F51A334ZE01D
			.47µF	+80, -20%	0.5	490-3276-1-ND	.47	2.80	8.06	490-3276-2-ND	10,000	8.00/M	GRM155F51A474ZE01D
		6.3	.1µF	+80, -20%	0.5	490-3277-1-ND	.22	1.30	3.75	490-3277-2-ND	10,000	4.00/M	GRM155F50J104ZA01D
			.68µF	+80, -20%	0.5	490-3278-1-ND	.78	4.62	13.31	490-3278-2-ND	10,000	12.78/M	GRM155F50J684ZE01D
0603	C0G (NP0)	100	10pF	±.25pF	0.8	490-3279-1-ND	.52	3.06	8.81	490-3279-2-ND	4,000	8.00/M	GRM1885C2A100RA01D
			11pF	±5%	0.8	490-1328-1-ND	.59	3.51	10.13	490-1328-2-ND	4,000	9.72/M	GRM1885C2A110JA01D
			12pF	±5%	0.8	490-1329-1-ND	.50	2.93	8.44	490-1329-2-ND	4,000	8.00/M	GRM1885C2A120JA01D
			13pF	±5%	0.8	490-1330-1-ND	.62	3.64	10.50	490-1330-2-ND	4,000	10.08/M	GRM1885C2A130JA01D
			15pF	±5%	0.8	490-1331-1-ND	.50	2.93	8.44	490-1331-2-ND	4,000	8.00/M	GRM1885C2A150JA01D
			16pF	±5%	0.8	490-1332-1-ND	.62	3.64	10.50	490-1332-2-ND	4,000	10.08/M	GRM1885C2A160JA01D
			18pF	±5%	0.8	490-1333-1-ND	.50	2.93	8.44	490-1333-2-ND	4,000	8.00/M	GRM1885C2A180JA01D
			20pF	±5%	0.8	490-1334-1-ND	.56	3.32	9.56	490-1334-2-ND	4,000	9.00/M	GRM1885C2A200JA01D
			22pF	±5%	0.8	490-1335-1-ND	.50	2.93	8.44	490-1335-2-ND	4,000	8.00/M	GRM1885C2A220JA01D
			24pF	±5%	0.8	490-1336-1-ND	.62	3.64	10.50	490-1336-2-ND	4,000	10.08/M	GRM1885C2A240JA01D
			27pF	±5%	0.8	490-1337-1-ND	.50	2.93	8.44	490-1337-2-ND	4,000	8.00/M	GRM1885C2A270JA01D
			30pF	±5%	0.8	490-1338-1-ND	.62	3.64	10.50	490-1338-2-ND	4,000	10.08/M	GRM1885C2A300JA01D
			33pF	±5%	0.8	490-1339-1-ND	.50	2.93	8.44	490-1339-2-ND	4,000	8.00/M	GRM1885C2A330JA01D
			36pF	±5%	0.8	490-1340-1-ND	.62	3.64	10.50	490-1340-2-ND	4,000	10.08/M	GRM1885C2A360JA01D
			39pF	±5%	0.8	490-1341-1-ND	.50	2.93	8.44	490-1341-2-ND	4,000	8.00/M	GRM1885C2A390JA01D
			43pF	±5%	0.8	490-1342-1-ND	.59	3.51	10.13	490-1342-2-ND	4,000	9.72/M	GRM1885C2A430JA01D
			47pF	±5%	0.8	490-1343-1-ND	.50	2.93	8.44	490-1343-2-ND	4,000	8.00/M	GRM1885C2A470JA01D
			51pF	±5%	0.8	490-1344-1-ND	.59	3.51	10.13	490-1344-2-ND	4,000	9.72/M	GRM1885C2A510JA01D
			56pF	±5%	0.8	490-1345-1-ND	.50	2.93	8.44	490-1345-2-ND	4,000	8.00/M	GRM1885C2A560JA01D
			62pF	±5%	0.8	490-1346-1-ND	.59	3.51	10.13	490-1346-2-ND	4,000	9.72/M	GRM1885C2A620JA01D
			68pF	±5%	0.8	490-1347-1-ND	.50	2.93	8.44	490-1347-2-ND	4,000	8.00/M	GRM1885C2A680JA01D
			75pF	±5%	0.8	490-1348-1-ND	.59	3.51	10.13	490-1348-2-ND	4,000	9.72/M	GRM1885C2A750JA01D
			82pF	±5%	0.8	490-1349-1-ND	.50	2.93	8.44	490-1349-2-ND	4,000	8.00/M	GRM1885C2A820JA01D
			91pF	±5%	0.8	490-1350-1-ND	.59	3.51	10.13	490-1350-2-ND	4,000	9.72/M	GRM1885C2A910JA01D
			100pF	±5%	0.8	490-1351-1-ND	.50	2.93	8.44	490-1351-2-ND	4,000	8.00/M	GRM1885C2A101JA01D
			110pF	±5%	0.8	490-1352-1-ND	.81	4.81	13.88	490-1352-2-ND	4,000	13.32/M	GRM1885C2A111JA01D
			120pF	±5%	0.8	490-1353-1-ND	.76	4.49	12.94	490-1353-2-ND	4,000	12.00/M	GRM1885C2A121JA01D
			130pF	±5%	0.8	490-1354-1-ND	.81	4.81	13.88	490-1354-2-ND	4,000	13.32/M	GRM1885C2A131JA01D
			150pF	±5%	0.8	490-1355-1-ND	.57	3.38	9.75	490-1355-2-ND	4,000	9.00/M	GRM1885C2A151JA01D
			160pF	±5%	0.8	490-1356-1-ND	.81	4.81	13.88	490-1356-2-ND	4,000	13.32/M	GRM1885C2A161JA01D
			180pF	±5%	0.8	490-1357-1-ND	.76	4.49	12.94	490-1357-2-ND	4,000	12.00/M	GRM1885C2A181JA01D
			200pF	±5%	0.8	490-1358-1-ND	.85	5.01	14.44	490-1358-2-ND	4,000	13.86/M	GRM1885C2A201JA01D
			220pF	±5%	0.8	490-1359-1-ND	.65	3.84	11.06	490-1359-2-ND	4,000	11.00/M	GRM1885C2A221JA01D
			240pF	±5%	0.8	490-1360-1-ND	.92	5.46	15.75	490-1360-2-ND	4,000	15.12/M	GRM1885C2A241JA01D
			270pF	±5%	0.8	490-1361-1-ND	.84	4.94	14.25	490-1361-2-ND	4,000	14.00/M	GRM1885C2A271JA01D
			300pF	±5%	0.8	490-1362-1-ND	.95	5.59	16.13	490-1362-2-ND	4,000	15.48/M	GRM1885C2A301JA01D
			330pF	±5%	0.8	490-1363-1-ND	.70	4.16	12.00	490-1363-2-ND	4,000	12.00/M	GRM1885C2A331JA01D
			360pF	±5%	0.8	490-1364-1-ND	.95	5.59	16.13	490-1364-2-ND	4,000	15.48/M	GRM1885C2A361JA01D
			390pF	±5%	0.8	490-1365-1-ND	.88	5.20	15.00	490-1365-2-ND	4,000	14.00/M	GRM1885C2A391JA01D
			430pF	±5%	0.8	490-1366-1-ND	.95	5.59	16.13	490-1366-2-ND	4,000	15.48/M	GRM1885C2A431JA01D
			470pF	±5%	0.8	490-1367-1-ND	.77	4.55	13.13	490-1367-2-ND	4,000	13.00/M	GRM1885C2A471JA01D
			510pF	±5%	0.8	490-1368-1-ND	1.07	6.31	18.19	490-1368-2-ND	4,000	17.46/M	GRM1885C2A511JA01D
			560pF	±5%	0.8	490-1369-1-ND	.95	5.59	16.13	490-1369-2-ND	4,000	15.00/M	GRM1885C2A561JA01D
			680pF	±5%	0.8	490-3280-1-ND	1.14	6.76	19.50	490-3280-2-ND	4,000	19.00/M	GRM1885C2A681JA01D
			1000pF	±5%	0.8	490-3281-1-ND	1.21	7.15	20.63	490-3281-2-ND	4,000	20.00/M	GRM1885C2A102JA01D
		50	.5pF	±.25pF	0.8	490-1370-1-ND	.43	2.54	7.31	490-1370-2-ND	4,000	7.00/M	GRM1885C1HR50CZ01D
			.75pF	±.25pF	0.8	490-1371-1-ND	.43	2.54	7.31	490-1371-2-ND	4,000	7.00/M	GRM1885C1HR75CZ01D
			1.0pF	±.25pF	0.8	490-1372-1-ND	.43	2.54	7.31	490-1372-2-ND	4,000	7.00/M	GRM1885C1H1R0CZ01D
			1.1pF	±.25pF	0.8	490-1373-1-ND	.40	2.34	6.75	490-1373-2-ND	4,000	6.66/M	GRM1885C1H1R1CZ01D
			1.2pF	±.25pF	0.8	490-1374-1-ND	.45	2.67	7.69	490-1374-2-ND	4,000	7.00/M	GRM1885C1H1R2CZ01D
			1.3pF	±.25pF	0.8	490-1375-1-ND	.69	4.10	11.81	490-1375-2-ND	4,000	11.34/M	GRM1885C1H1R3CZ01D
			1.5pF	±.25pF	0.8	490-1376-1-ND	.45	2.67	7.69	490-1376-2-ND	4,000	7.00/M	GRM1885C1H1R5CZ01D
			1.6pF	±.25pF	0.8	490-1377-1-ND	.69	4.10	11.81	490-1377-2-ND	4,000	11.34/M	GRM1885C1H1R6CZ01D
			1.8pF	±.25pF	0.8	490-1378-1-ND	.45	2.67	7.69	490-1378-2-ND	4,000	7.00/M	GRM1885C1H1R8CZ01D
			2.0pF	±.25pF	0.8	490-1379-1-ND	.43	2.54	7.31	490-1379-2-ND	4,000	7.00/M	GRM1885C1H2R0CZ01D
			2.2pF	±.25pF	0.8	490-1380-1-ND	.45	2.67	7.69	490-1380-2-ND	4,000	7.00/M	GRM1885C1H2R2CZ01D
			2.4pF	±.25pF	0.8	490-1381-1-ND	.69	4.10	11.81	490-1381-2-ND	4,000	11.34/M	GRM1885C1H2R4CZ01D
			2.7pF	±.25pF	0.8	490-1382-1-ND	.45	2.67	7.69	490-1382-2-ND	4,000	7.00/M	GRM1885C1H2R7CZ01D
			3.0pF	±.25pF	0.8	490-1383-1-ND	.43	2.54	7.31	490-1383-2-ND	4,000	7.00/M	GRM1885C1H3R0CZ01D
			3.3pF	±.25pF	0.8	490-1384-1-ND	.45	2.67	7.69	490-1384-2-ND	4,000	7.00/M	GRM1885C1H3R3CZ01D
			3.6pF	±.25pF	0.8	490-1385-1-ND	.69	4.10	11.81	490-1385-2-ND	4,000	11.34/M	GRM1885C1H3R6CZ01D
			3.9pF	±.25pF	0.8	490-1386-1-ND	.45	2.67	7.69	490-1386-2-ND	4,000	7.00/M	GRM1885C1H3R9CZ01D
			4.0pF	±.25pF	0.8	490-1387-1-ND	.43	2.54	7.31	490-1387-2-ND	4,000	7.00/M	GRM1885C1H4R0CZ01D
			4.3pF	±.25pF	0.8	490-1388-1-ND	.69	4.10	11.81	490-1388-2-ND	4,000	11.34/M	GRM1885C1H4R3CZ01D
			4.7pF	±.25pF	0.8	490-1389-1-ND	.45	2.67	7.69	490-1389-2-ND	4,000	7.00/M	GRM1885C1H4R7CZ01D
			5.0pF	±.25pF	0.8	490-1390-1-ND	.43	2.54	7.31	490-1390-2-ND	4,000	7.00/M	GRM1885C1H5R0CZ01D
			5.1pF	±.5pF	0.8	490-1391-1-ND	.69	4.10	11.81	490-1391-2-ND	4,000	11.34/M	GRM1885C1H5R1DZ01D
			5.6pF	±.5pF	0.8	490-1392-1-ND	.69	4.10	11.81	490-1392-2-ND	4,000	11.34/M	GRM1885C1H5R6DZ01D
			6.0pF	±.5pF	0.8	490-1393-1-ND	.43	2.54	7.31	490-1393-2-ND	4,000	7.00/M	GRM1885C1H6R0DZ01D
			6.2pF	±.5pF	0.8	490-1394-1-ND	.69	4.10	11.81	490-1394-2-ND	4,000	11.34/M	GRM1885C1H6R2DZ01D
			6.8pF	±.25pF	0.8	490-1395-1-ND	.70	4.16	12.00	490-1395-2-ND	4,000	12.00/M	GRM1885C1H6R8CZ01D
			6.8pF	±.5pF	0.8	490-1396-1-ND	.69	4.10	11.81	490-1396-2-ND	4,000	11.34/M	GRM1885C1H6R8DZ01D
			7.0pF	±.5pF	0.8	490-1397-1-ND	.43	2.54	7.31	490-1397-2-ND	4,000	7.00/M	GRM1885C1H7R0DZ01D
			7.5pF	±.5pF	0.8	490-1398-1-ND	.69	4.10	11.81	490-1398-2-ND	4,000	11.34/M	GRM1885C1H7R5DZ01D
			8.0pF	±.5pF	0.8	490-1399-1-ND	.43	2.54	7.31	490-1399-2-ND	4,000	7.00/M	GRM1885C1H8R0DZ01D
			8.2pF	±.5pF	0.8	490-1400-1-ND	.69	4.10	11.81	490-1400-2-ND	4,000	11.34/M	GRM1885C1H8R2DZ01D
			9.0pF	±.5pF	0.8	490-1401-1-ND	.43	2.54	7.31	490-1401-2-ND	4,000	7.00/M	GRM1885C1H9R0DZ01D
			9.1pF	±.5pF	0.8	490-1402-1-ND	.69	4.10	11.81	490-1402-2-ND	4,000	11.34/M	GRM1885C1H9R1DZ01D
			10pF	±5%	0.8	490-1403-1-ND	.43	2.54	7.31	490-1403-2-ND	4,000	7.00/M	GRM1885C1H100JA01D
			11pF	±5%	0.8	490-1404-1-ND	.72	4.23	12.19	490-1404-2-ND	4,000	11.70/M	GRM1885C1H110JA01D
			12pF	±5%	0.8	490-1405-1-ND	.43	2.54	7.31	490-1405-2-ND	4,000	7.00/M	GRM1885C1H120JA01D

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Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0603	C0G (NP0)	50	13pF	±5%	0.8	490-1406-1-ND	.72	4.23	12.19	490-1406-2-ND	4,000	11.70/M	GRM1885C1H130JA01D
			15pF	±5%	0.8	490-1407-1-ND	.43	2.54	7.31	490-1407-2-ND	4,000	7.00/M	GRM1885C1H150JA01D
			16pF	±5%	0.8	490-1408-1-ND	.72	4.23	12.19	490-1408-2-ND	4,000	11.70/M	GRM1885C1H160JA01D
			18pF	±5%	0.8	490-1409-1-ND	.43	2.54	7.31	490-1409-2-ND	4,000	7.00/M	GRM1885C1H180JA01D
			20pF	±5%	0.8	490-1410-1-ND	.48	2.86	8.25	490-1410-2-ND	4,000	8.00/M	GRM1885C1H200JA01D
			22pF	±5%	0.8	490-1411-1-ND	.43	2.54	7.31	490-1411-2-ND	4,000	7.00/M	GRM1885C1H220JA01D
			24pF	±5%	0.8	490-1412-1-ND	.48	2.86	8.25	490-1412-2-ND	4,000	8.00/M	GRM1885C1H240JA01D
			27pF	±5%	0.8	490-1413-1-ND	.43	2.54	7.31	490-1413-2-ND	4,000	7.00/M	GRM1885C1H270JA01D
			30pF	±5%	0.8	490-1414-1-ND	.48	2.86	8.25	490-1414-2-ND	4,000	8.00/M	GRM1885C1H300JA01D
			33pF	±5%	0.8	490-1415-1-ND	.43	2.54	7.31	490-1415-2-ND	4,000	7.00/M	GRM1885C1H330JA01D
			36pF	±5%	0.8	490-1416-1-ND	.48	2.86	8.25	490-1416-2-ND	4,000	8.00/M	GRM1885C1H360JA01D
			39pF	±5%	0.8	490-1417-1-ND	.43	2.54	7.31	490-1417-2-ND	4,000	7.00/M	GRM1885C1H390JA01D
			43pF	±5%	0.8	490-1418-1-ND	.72	4.23	12.19	490-1418-2-ND	4,000	11.70/M	GRM1885C1H430JA01D
			47pF	±5%	0.8	490-1419-1-ND	.43	2.54	7.31	490-1419-2-ND	4,000	7.00/M	GRM1885C1H470JA01D
			51pF	±5%	0.8	490-1420-1-ND	.72	4.23	12.19	490-1420-2-ND	4,000	11.70/M	GRM1885C1H510JA01D
			56pF	±5%	0.8	490-1421-1-ND	.43	2.54	7.31	490-1421-2-ND	4,000	7.00/M	GRM1885C1H560JA01D
			62pF	±5%	0.8	490-1422-1-ND	.72	4.23	12.19	490-1422-2-ND	4,000	11.70/M	GRM1885C1H620JA01D
			68pF	±5%	0.8	490-1423-1-ND	.43	2.54	7.31	490-1423-2-ND	4,000	7.00/M	GRM1885C1H680JA01D
			75pF	±5%	0.8	490-1424-1-ND	.48	2.86	8.25	490-1424-2-ND	4,000	8.00/M	GRM1885C1H750JA01D
			82pF	±5%	0.8	490-1425-1-ND	.43	2.54	7.31	490-1425-2-ND	4,000	7.00/M	GRM1885C1H820JA01D
			91pF	±5%	0.8	490-1426-1-ND	.72	4.23	12.19	490-1426-2-ND	4,000	11.70/M	GRM1885C1H910JA01D
			100pF	±5%	0.8	490-1427-1-ND	.45	2.67	7.69	490-1427-2-ND	4,000	7.00/M	GRM1885C1H101JA01D
			110pF	±5%	0.8	490-1428-1-ND	1.03	6.11	17.63	490-1428-2-ND	4,000	16.92/M	GRM1885C1H111JA01D
			120pF	±5%	0.8	490-1429-1-ND	.65	3.84	11.06	490-1429-2-ND	4,000	11.00/M	GRM1885C1H121JA01D
			130pF	±5%	0.8	490-1430-1-ND	1.05	6.18	17.81	490-1430-2-ND	4,000	17.10/M	GRM1885C1H131JA01D
			150pF	±5%	0.8	490-1431-1-ND	.48	2.86	8.25	490-1431-2-ND	4,000	8.00/M	GRM1885C1H151JA01D
			160pF	±5%	0.8	490-1432-1-ND	1.03	6.11	17.63	490-1432-2-ND	4,000	16.92/M	GRM1885C1H161JA01D
			180pF	±5%	0.8	490-1433-1-ND	.65	3.84	11.06	490-1433-2-ND	4,000	11.00/M	GRM1885C1H181JA01D
			200pF	±5%	0.8	490-1434-1-ND	1.05	6.18	17.81	490-1434-2-ND	4,000	17.10/M	GRM1885C1H201JA01D
			220pF	±5%	0.8	490-1435-1-ND	.54	3.19	9.19	490-1435-2-ND	4,000	9.00/M	GRM1885C1H221JA01D
			240pF	±5%	0.8	490-1436-1-ND	1.09	6.44	18.56	490-1436-2-ND	4,000	17.82/M	GRM1885C1H241JA01D
			270pF	±5%	0.8	490-1437-1-ND	.70	4.16	12.00	490-1437-2-ND	4,000	12.00/M	GRM1885C1H271JA01D
			300pF	±5%	0.8	490-1438-1-ND	1.13	6.70	19.31	490-1438-2-ND	4,000	18.54/M	GRM1885C1H301JA01D
			330pF	±5%	0.8	490-1439-1-ND	.57	3.38	9.75	490-1439-2-ND	4,000	9.00/M	GRM1885C1H331JA01D
			360pF	±5%	0.8	490-1440-1-ND	1.13	6.70	19.31	490-1440-2-ND	4,000	18.54/M	GRM1885C1H361JA01D
			390pF	±5%	0.8	490-1441-1-ND	.76	4.49	12.94	490-1441-2-ND	4,000	12.00/M	GRM1885C1H391JA01D
			430pF	±5%	0.8	490-1442-1-ND	1.18	6.96	20.06	490-1442-2-ND	4,000	19.26/M	GRM1885C1H431JA01D
			470pF	±5%	0.8	490-1443-1-ND	.62	3.64	10.50	490-1443-2-ND	4,000	10.00/M	GRM1885C1H471JA01D
			510pF	±5%	0.8	490-1444-1-ND	1.34	7.93	22.88	490-1444-2-ND	4,000	21.96/M	GRM1885C1H511JA01D
			560pF	±5%	0.8	490-1445-1-ND	.77	4.55	13.13	490-1445-2-ND	4,000	13.00/M	GRM1885C1H561JA01D
			620pF	±5%	0.8	490-1446-1-ND	.94	5.53	15.94	490-1446-2-ND	4,000	15.30/M	GRM1885C1H621JA01D
			680pF	±5%	0.8	490-1447-1-ND	.74	4.36	12.56	490-1447-2-ND	4,000	12.00/M	GRM1885C1H681JA01D
			750pF	±5%	0.8	490-1448-1-ND	1.17	6.89	19.88	490-1448-2-ND	4,000	19.08/M	GRM1885C1H751JA01D
			820pF	±5%	0.8	490-1449-1-ND	1.03	6.11	17.63	490-1449-2-ND	4,000	17.00/M	GRM1885C1H821JA01D
			910pF	±5%	0.8	490-1450-1-ND	1.17	6.89	19.88	490-1450-2-ND	4,000	19.08/M	GRM1885C1H911JA01D
			1000pF	±5%	0.8	490-1451-1-ND	.76	4.49	12.94	490-1451-2-ND	4,000	12.00/M	GRM1885C1H102JA01D
			1100pF	±5%	0.8	490-1452-1-ND	1.18	6.96	20.06	490-1452-2-ND	4,000	19.26/M	GRM1885C1H112JA01D
			1200pF	±5%	0.8	490-1453-1-ND	1.10	6.50	18.75	490-1453-2-ND	4,000	18.00/M	GRM1885C1H122JA01D
			1300pF	±5%	0.8	490-1454-1-ND	1.21	7.15	20.63	490-1454-2-ND	4,000	19.80/M	GRM1885C1H132JA01D
			1500pF	±5%	0.8	490-1455-1-ND	1.09	6.44	18.56	490-1455-2-ND	4,000	18.00/M	GRM1885C1H152JA01D
			1600pF	±5%	0.8	490-1456-1-ND	1.30	7.67	22.13	490-1456-2-ND	4,000	21.24/M	GRM1885C1H162JA01D
			1800pF	±5%	0.8	490-1457-1-ND	1.18	6.96	20.06	490-1457-2-ND	4,000	19.00/M	GRM1885C1H182JA01D
			2000pF	±5%	0.8	490-1458-1-ND	1.34	7.93	22.88	490-1458-2-ND	4,000	21.96/M	GRM1885C1H202JA01D
			2200pF	±5%	0.8	490-1459-1-ND	1.14	6.76	19.50	490-1459-2-ND	4,000	19.00/M	GRM1885C1H222JA01D
			2400pF	±5%	0.8	490-3282-1-ND	1.61	9.49	27.38	490-3282-2-ND	4,000	26.00/M	GRM1885C1H242JA01D
			2700pF	±5%	0.8	490-3283-1-ND	1.45	8.58	24.75	490-3283-2-ND	4,000	24.00/M	GRM1885C1H272JA01D
	X7R	250	220pF	±10%	0.8	490-3521-1-ND	1.12	6.63	19.13	490-3521-2-ND	4,000	18.00/M	GRM188R72E221KW07D
			330pF	±10%	0.8	490-3522-1-ND	1.12	6.63	19.13	490-3522-2-ND	4,000	18.00/M	GRM188R72E331KW07D
			470pF	±10%	0.8	490-3523-1-ND	1.12	6.63	19.13	490-3523-2-ND	4,000	18.00/M	GRM188R72E471KW07D
			680pF	±10%	0.8	490-3524-1-ND	1.12	6.63	19.13	490-3524-2-ND	4,000	18.00/M	GRM188R72E681KW07D
			1000pF	±10%	0.8	490-3526-1-ND	1.12	6.63	19.13	490-3526-2-ND	4,000	18.00/M	GRM188R72E102KW07D
			1500pF	±10%	0.8	490-3528-1-ND	1.12	6.63	19.13	490-3528-2-ND	4,000	18.00/M	GRM188R72E152KW07D
			2200pF	±10%	0.8	490-3530-1-ND	1.12	6.63	19.13	490-3530-2-ND	4,000	18.00/M	GRM188R72E222KW07D
		100	220pF	±10%	0.8	490-1460-1-ND	.57	3.38	9.75	490-1460-2-ND	4,000	9.00/M	GRM188R72A221KA01D
			220pF	±20%	0.8	490-1461-1-ND	.66	3.90	11.25	490-1461-2-ND	4,000	10.80/M	GRM188R72A221MA01D
			270pF	±10%	0.8	490-1462-1-ND	.67	3.97	11.44	490-1462-2-ND	4,000	10.98/M	GRM188R72A271KA01D
			330pF	±10%	0.8	490-1464-1-ND	.57	3.38	9.75	490-1464-2-ND	4,000	9.00/M	GRM188R72A331KA01D
			330pF	±20%	0.8	490-1463-1-ND	.67	3.97	11.44	490-1463-2-ND	4,000	10.98/M	GRM188R72A331MA01D
			390pF	±10%	0.8	490-1465-1-ND	.67	3.97	11.44	490-1465-2-ND	4,000	10.98/M	GRM188R72A391KA01D
			470pF	±10%	0.8	490-1467-1-ND	.57	3.38	9.75	490-1467-2-ND	4,000	9.00/M	GRM188R72A471KA01D
			470pF	±20%	0.8	490-1466-1-ND	.66	3.90	11.25	490-1466-2-ND	4,000	10.80/M	GRM188R72A471MA01D
			560pF	±10%	0.8	490-1468-1-ND	.68	4.03	11.63	490-1468-2-ND	4,000	11.16/M	GRM188R72A561KA01D
			680pF	±10%	0.8	490-1469-1-ND	.57	3.38	9.75	490-1469-2-ND	4,000	9.00/M	GRM188R72A681KA01D
			680pF	±20%	0.8	490-1470-1-ND	.67	3.97	11.44	490-1470-2-ND	4,000	10.98/M	GRM188R72A681MA01D
			820pF	±10%	0.8	490-1471-1-ND	.67	3.97	11.44	490-1471-2-ND	4,000	10.98/M	GRM188R72A821KA01D
			1000pF	±10%	0.8	490-1472-1-ND	.43	2.54	7.31	490-1472-2-ND	4,000	7.00/M	GRM188R72A102KA01D
			1000pF	±20%	0.8	490-1473-1-ND	.54	3.19	9.19	490-1473-2-ND	4,000	8.82/M	GRM188R72A102MA01D
			1200pF	±10%	0.8	490-1474-1-ND	.62	3.64	10.50	490-1474-2-ND	4,000	10.08/M	GRM188R72A122KA01D
			1500pF	±10%	0.8	490-1475-1-ND	.48	2.86	8.25	490-1475-2-ND	4,000	8.00/M	GRM188R72A152KA01D
			1500pF	±20%	0.8	490-1476-1-ND	.58	3.45	9.94	490-1476-2-ND	4,000	9.54/M	GRM188R72A152MA01D
			1800pF	±10%	0.8	490-1477-1-ND	.63	3.71	10.69	490-1477-2-ND	4,000	10.26/M	GRM188R72A182KA01D
			2200pF	±10%	0.8	490-1478-1-ND	.46	2.73	7.88	490-1478-2-ND	4,000	8.00/M	GRM188R72A222KA01D
			2200pF	±20%	0.8	490-1479-1-ND	.54	3.19	9.19	490-1479-2-ND	4,000	8.82/M	GRM188R72A222MA01D
			2700pF	±10%	0.8	490-1480-1-ND	.67	3.97	11.44	490-1480-2-ND	4,000	10.98/M	GRM188R72A272KA01D
			3300pF	±10%	0.8	490-1481-1-ND	.48	2.86	8.25	490-1481-2-ND	4,000	8.00/M	GRM188R72A332KA01D
			3300pF	±20%	0.8	490-1482-1-ND	.58	3.45	9.94	490-1482-2-ND	4,000	9.54/M	GRM188R72A332MA01D
			22000pF	±10%	0.8	490-3284-1-ND	.67	3.97	11.44	490-3284-2-ND	4,000	11.00/M	GRM188R72A223KAC4D
			.1µF	±10%	0.8	490-3285-1-ND	1.90	11.25	32.44	490-3285-2-ND	4,000	31.00/M	GRM188R72A104KA35D
		50	220pF	±10%	0.8	490-1483-1-ND	.46	2.73	7.88	490-1483-2-ND	4,000	8.00/M	GRM188R71H221KA01D
			220pF	±20%	0.8	490-1484-1-ND	1.01	5.98	17.25	490-1484-2-ND	4,000	16.56/M	GRM188R71H221MA01D
			270pF	±10%	0.8	490-1485-1-ND	.59	3.51	10.13	490-1485-2-ND	4,000	9.72/M	GRM188R71H271KA01D
			330pF	±10%	0.8	490-1486-1-ND	.48	2.86	8.25	490-1486-2-ND	4,000	8.00/M	GRM188R71H331KA01D
			330pF	±20%	0.8	490-1487-1-ND	.58	3.45	9.94	490-1487-2-ND	4,000	9.54/M	GRM188R71H331MA01D
			390pF	±10%	0.8	490-1555-1-ND	.68	4.03	11.63	490-1555-2-ND	4,000	11.16/M	GRM188R71H391KA01D
			470pF	±10%	0.8	490-1489-1-ND	.43	2.54	7.31	490-1489-2-ND	4,000	7.00/M	GRM188R71H471KA01D
			470pF	±20%	0.8	490-1488-1-ND	.66	3.90	11.25	490-1488-2-ND	4,000	10.80/M	GRM188R71H471MA01D
			560pF	±10%	0.8	490-1490-1-ND	.67	3.97	11.44	490-1490-2-ND	4,000	10.98/M	GRM188R71H561KA01D
			680pF	±10%	0.8	490-1491-1-ND	.46	2.73	7.88	490-1491-2-ND	4,000	8.00/M	GRM188R71H681KA01D
			680pF	±20%	0.8	490-1492-1-ND	.57	3.38	9.75	490-1492-2-ND	4,000	9.36/M	GRM188R71H681MA01D
			820pF	±10%	0.8	490-1493-1-ND	.48	2.86	8.25	490-1493-2-ND	4,000	8.00/M	GRM188R71H821KA01D
			1000pF	±10%	0.8	490-1494-1-ND	.35	2.08	6.00	490-1494-2-ND	4,000	6.00/M	GRM188R71H102KA01D
			1000pF	±20%	0.8	490-1495-1-ND	.57	3.38	9.75	490-1495-2-ND	4,000	9.36/M	GRM188R71H102MA01D
			1200pF	±10%	0.8	490-1496-1-ND	.40	2.34	6.75	490-1496-2-ND	4,000	6.00/M	GRM188R71H122KA01D
			1500pF	±10%	0.8	490-1498-1-ND	.39	2.28	6.56	490-1498-2-ND	4,000	6.00/M	GRM188R71H152KA01D
			1500pF	±20%	0.8	490-1497-1-ND	.65	3.84	11.06	490-1497-2-ND	4,000	10.62/M	GRM188R71H152MA01D
			1800pF	±10%	0.8	490-1499-1-ND	.66	3.90	11.25	490-1499-2-ND	4,000	10.80/M	GRM188R71H182KA01D

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Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0603	X7R	50	2200pF	±10%	0.8	490-1500-1-ND	.36	2.15	6.19	490-1500-2-ND	4,000	6.00/M	GRM188R71H222KA01D
			2200pF	±20%	0.8	490-1501-1-ND	.41	2.41	6.94	490-1501-2-ND	4,000	6.66/M	GRM188R71H222MA01D
			2700pF	±10%	0.8	490-1502-1-ND	.45	2.67	7.69	490-1502-2-ND	4,000	7.00/M	GRM188R71H272KA01D
			3300pF	±10%	0.8	490-1503-1-ND	.39	2.28	6.56	490-1503-2-ND	4,000	6.00/M	GRM188R71H332KA01D
			3300pF	±20%	0.8	490-1560-1-ND	.65	3.84	11.06	490-1560-2-ND	4,000	10.62/M	GRM188R71H332MA01D
			3900pF	±10%	0.8	490-1504-1-ND	.68	4.03	11.63	490-1504-2-ND	4,000	11.16/M	GRM188R71H392KA01D
			4700pF	±10%	0.8	490-1506-1-ND	.36	2.15	6.19	490-1506-2-ND	4,000	6.00/M	GRM188R71H472KA01D
			4700pF	±20%	0.8	490-1505-1-ND	.63	3.71	10.69	490-1505-2-ND	4,000	10.26/M	GRM188R71H472MA01D
			8200pF	±10%	0.8	490-1510-1-ND	.57	3.38	9.75	490-1510-2-ND	4,000	9.00/M	GRM188R71H822KA01D
			6800pF	±20%	0.8	490-1509-1-ND	.72	4.23	12.19	490-1509-2-ND	4,000	11.70/M	GRM188R71H682MA01D
			5600pF	±10%	0.8	490-1507-1-ND	.54	3.19	9.19	490-1507-2-ND	4,000	9.00/M	GRM188R71H562KA01D
			6800pF	±10%	0.8	490-1508-1-ND	.39	2.28	6.56	490-1508-2-ND	4,000	6.00/M	GRM188R71H682KA01D
			10000pF	±10%	0.8	490-1512-1-ND	.35	2.08	6.00	490-1512-2-ND	4,000	6.00/M	GRM188R71H103KA01D
			10000pF	±20%	0.8	490-1511-1-ND	.34	2.02	5.81	490-1511-2-ND	4,000	6.00/M	GRM188R71H103MA01D
			12000pF	±10%	0.8	490-1513-1-ND	.57	3.38	9.75	490-1513-2-ND	4,000	9.00/M	GRM188R71H123KA01D
			15000pF	±10%	0.8	490-1514-1-ND	.43	2.54	7.31	490-1514-2-ND	4,000	7.00/M	GRM188R71H153KA01D
			15000pF	±20%	0.8	490-1515-1-ND	.57	3.38	9.75	490-1515-2-ND	4,000	9.36/M	GRM188R71H153MA01D
			18000pF	±10%	0.8	490-1516-1-ND	.58	3.45	9.94	490-1516-2-ND	4,000	10.00/M	GRM188R71H183KA01D
			22000pF	±10%	0.8	490-1517-1-ND	.50	2.93	8.44	490-1517-2-ND	4,000	8.00/M	GRM188R71H223KA01D
			22000pF	±20%	0.8	490-1518-1-ND	.59	3.51	10.13	490-1518-2-ND	4,000	9.72/M	GRM188R71H223MA01D
			33000pF	±10%	0.8	490-3286-1-ND	.62	3.64	10.50	490-3286-2-ND	4,000	10.00/M	GRM188R71H333KA61D
			47000pF	±10%	0.8	490-3287-1-ND	.70	4.16	12.00	490-3287-2-ND	4,000	12.00/M	GRM188R71H473KA61D
			68000pF	±10%	0.8	490-3288-1-ND	.73	4.29	12.38	490-3288-2-ND	4,000	12.00/M	GRM188R71H683KA93D
			.1µF	±10%	0.8	490-1519-1-ND	.61	3.58	10.31	490-1519-2-ND	4,000	10.00/M	GRM188R71H104KA93D
		25	10000pF	±10%	0.8	490-1520-1-ND	.35	2.08	6.00	490-1520-2-ND	4,000	6.00/M	GRM188R71E103KA01D
			33000pF	±10%	0.8	490-1521-1-ND	.55	3.25	9.38	490-1521-2-ND	4,000	9.00/M	GRM188R71E333KA01D
			47000pF	±10%	0.8	490-1522-1-ND	.57	3.38	9.75	490-1522-2-ND	4,000	9.00/M	GRM188R71E473KA01D
			68000pF	±10%	0.8	490-1523-1-ND	.57	3.38	9.75	490-1523-2-ND	4,000	9.00/M	GRM188R71E683KA01D
			.1µF	±10%	0.8	490-1524-1-ND	.52	3.06	8.81	490-1524-2-ND	4,000	8.00/M	GRM188R71E104KA01D
			.22µF	±10%	0.8	490-3290-1-ND	1.13	6.70	19.31	490-3290-2-ND	4,000	19.00/M	GRM188R71E224KA88D
			.47µF	±10%	0.8	490-3291-1-ND	1.32	7.80	22.50	490-3291-2-ND	4,000	22.00/M	GRM188R71E474KA12D
		16	10000pF	±10%	0.8	490-1525-1-ND	.54	3.19	9.19	490-1525-2-ND	4,000	8.82/M	GRM188R71C103KA01D
			12000pF	±10%	0.8	490-1526-1-ND	.70	4.16	12.00	490-1526-2-ND	4,000	11.52/M	GRM188R71C123KA01D
			22000pF	±10%	0.8	490-1527-1-ND	.42	2.47	7.13	490-1527-2-ND	4,000	7.00/M	GRM188R71C223KA01D
			33000pF	±10%	0.8	490-1528-1-ND	.52	3.06	8.81	490-1528-2-ND	4,000	8.00/M	GRM188R71C333KA01D
			47000pF	±10%	0.8	490-1529-1-ND	.52	3.06	8.81	490-1529-2-ND	4,000	8.00/M	GRM188R71C473KA01D
			56000pF	±10%	0.8	490-1530-1-ND	1.28	7.54	21.75	490-1530-2-ND	4,000	20.88/M	GRM188R71C563KA01D
			68000pF	±10%	0.8	490-1531-1-ND	.54	3.19	9.19	490-1531-2-ND	4,000	9.00/M	GRM188R71C683KA01D
			.1µF	±10%	0.8	490-1532-1-ND	.42	2.47	7.13	490-1532-2-ND	4,000	7.00/M	GRM188R71C104KA01D
			.15µF	±10%	0.8	490-3292-1-ND	.65	3.84	11.06	490-3292-2-ND	4,000	11.00/M	GRM188R71C154KA01D
			.22µF	±10%	0.8	490-3293-1-ND	.91	5.40	15.56	490-3293-2-ND	4,000	15.00/M	GRM188R71C224KA01D
			.33µF	±10%	0.8	490-3294-1-ND	1.07	6.31	18.19	490-3294-2-ND	4,000	17.00/M	GRM188R71C334KA01D
			.47µF	±10%	0.8	490-3295-1-ND	1.17	6.89	19.88	490-3295-2-ND	4,000	19.00/M	GRM188R71C474KA88D
			1.0µF	±10%	0.8	490-3900-1-ND	3.21	18.98	54.75	490-3900-2-ND	4,000	53.00/M	GRM188R71C105KA12D
		10	.15µF	±10%	0.8	490-1533-1-ND	.65	3.84	11.06	490-1533-2-ND	4,000	11.00/M	GRM188R71A154KA01D
			.15µF	±20%	0.8	490-1534-1-ND	1.24	7.35	21.19	490-1534-2-ND	4,000	20.34/M	GRM188R71A154MA01D
			.22µF	±10%	0.8	490-1535-1-ND	.92	5.46	15.75	490-1535-2-ND	4,000	15.00/M	GRM188R71A224KA01D
			1.0µF	±10%	0.8	490-3899-1-ND	3.21	18.98	54.75	490-3899-2-ND	4,000	53.00/M	GRM188R71A105KA61D
			2.2µF	±10%	0.8	490-4520-1-ND	2.59	15.28	44.06	490-4520-2-ND	4,000	42.00/M	GRM188R71A225KE15D
		6.3	1.0µF	±10%	0.8	490-3898-1-ND	3.21	18.98	54.75	490-3898-2-ND	4,000	53.00/M	GRM188R70J105KA01D
	X5R	25	1.0µF	±10%	0.8	490-3897-1-ND	.87	5.14	14.81	490-3897-2-ND	4,000	14.00/M	GRM188R61E105KA12D
		16	1.0µF	±10%	0.5	490-3894-1-ND	1.50	8.84	25.50	490-3894-2-ND	4,000	24.00/M	GRM185R61C105KE44D
			1.0µF	±10%	0.8	490-1536-1-ND	.75	4.42	12.75	490-1536-2-ND	4,000	12.00/M	GRM188R61C105KA93D
			2.2µF	±10%	0.8	490-3296-1-ND	1.84	10.86	31.31	490-3296-2-ND	4,000	30.00/M	GRM188R61C225KE15D
		10	.33µF	±10%	0.8	490-1538-1-ND	1.69	10.01	28.88	490-1538-2-ND	4,000	27.72/M	GRM188R61A334KA61D
			.47µF	±10%	0.8	490-1539-1-ND	.95	5.59	16.13	490-1539-2-ND	4,000	15.00/M	GRM188R61A474KA61D
			.47µF	±20%	0.8	490-1540-1-ND	1.47	8.71	25.13	490-1540-2-ND	4,000	24.12/M	GRM188R61A474MA61D
			.68µF	±10%	0.8	490-1541-1-ND	.96	5.66	16.31	490-1541-2-ND	4,000	16.00/M	GRM188R61A684KA61D
			1.0µF	±10%	0.5	490-3893-1-ND	1.50	8.84	25.50	490-3893-2-ND	4,000	24.00/M	GRM185R61A105KE36D
			1.0µF	±10%	0.8	490-1543-1-ND	.62	3.64	10.50	490-1543-2-ND	4,000	10.00/M	GRM188R61A105KA61D
			1.0µF	±20%	0.8	490-1544-1-ND	.74	4.36	12.56	490-1544-2-ND	4,000	12.00/M	GRM188R61A105MA61D
			2.2µF	±10%	0.8	490-1545-1-ND	1.71	10.08	29.06	490-1545-2-ND	4,000	28.00/M	GRM188R61A225KE34D
			2.2µF	±20%	0.8	490-1546-1-ND	1.71	10.08	29.06	490-1546-2-ND	4,000	28.00/M	GRM188R61A225ME34D
		6.3	.33µF	±10%	0.8	490-1547-1-ND	1.88	11.12	32.06	490-1547-2-ND	4,000	30.78/M	GRM188R60J334KA01D
			.47µF	±10%	0.8	490-1548-1-ND	1.47	8.71	25.13	490-1548-2-ND	4,000	24.12/M	GRM188R60J474KA01D
			1.0µF	±10%	0.8	490-1550-1-ND	.62	3.64	10.50	490-1550-2-ND	4,000	10.00/M	GRM188R60J105KA01D
			1.0µF	±20%	0.8	490-1549-1-ND	1.31	7.74	22.31	490-1549-2-ND	4,000	21.42/M	GRM188R60J105MA01D
			2.2µF	±10%	0.5	490-3267-1-ND	1.71	10.08	29.06	490-3267-2-ND	4,000	28.00/M	GRM185R60J225KE26D
			2.2µF	±10%	0.8	490-1552-1-ND	1.77	10.47	30.19	490-1552-2-ND	4,000	29.00/M	GRM188R60J225KE01D
			2.2µF	±20%	0.8	490-1551-1-ND	2.01	11.90	34.31	490-1551-2-ND	4,000	33.00/M	GRM188R60J225ME01D
			4.7µF	±10%	0.8	490-3297-1-ND	2.13	12.61	36.38	490-3297-2-ND	4,000	35.00/M	GRM188R60J475KE19D
			4.7µF	±20%	0.5	490-3892-1-ND	2.13	12.61	36.38	490-3892-2-ND	4,000	35.00/M	GRM185R60J475ME15D
			10µF	±20%	0.8	490-3896-1-ND	6.38	37.70	108.75	490-3896-2-ND	4,000	104.00/M	GRM188R60J106ME47D
		4	4.7µF	±20%	0.5	490-3891-1-ND	3.10	18.33	52.88	490-3891-2-ND	4,000	51.00/M	GRM185R60G475ME15D
			10µF	±20%	0.8	490-3298-1-ND	6.38	37.70	108.75	490-3298-2-ND	4,000	104.00/M	GRM188R60G106ME47D
	X6S	10	2.2µF	±10%	0.8	490-4521-1-ND	1.71	10.08	29.06	490-4521-2-ND	4,000	28.00/M	GRM188C81A225KE34D
	Y5V	100	2200pF	+80, -20%	0.8	490-1553-1-ND	1.42	8.39	24.19	490-1553-2-ND	4,000	23.22/M	GRM188F52A222ZD01D
			3300pF	+80, -20%	0.8	490-1554-1-ND	1.42	8.39	24.19	490-1554-2-ND	4,000	23.22/M	GRM188F52A332ZD01D
		50	1000pF	+80, -20%	0.8	490-1556-1-ND	.57	3.38	9.75	490-1556-2-ND	4,000	9.36/M	GRM188F51H102ZA01D
			1500pF	+80, -20%	0.8	490-1557-1-ND	.63	3.71	10.69	490-1557-2-ND	4,000	10.26/M	GRM188F51H152ZA01D
			2200pF	+80, -20%	0.8	490-1558-1-ND	.57	3.38	9.75	490-1558-2-ND	4,000	9.36/M	GRM188F51H222ZA01D
			3300pF	+80, -20%	0.8	490-1559-1-ND	.63	3.71	10.69	490-1559-2-ND	4,000	10.26/M	GRM188F51H332ZA01D
			6800pF	+80, -20%	0.8	490-1562-1-ND	.73	4.29	12.38	490-1562-2-ND	4,000	11.88/M	GRM188F51H682ZA01D
			4700pF	+80, -20%	0.8	490-1561-1-ND	.57	3.38	9.75	490-1561-2-ND	4,000	9.36/M	GRM188F51H472ZA01D
			10000pF	+80, -20%	0.8	490-1563-1-ND	.35	2.08	6.00	490-1563-2-ND	4,000	6.00/M	GRM188F51H103ZA01D
			15000pF	+80, -20%	0.8	490-1564-1-ND	.67	3.97	11.44	490-1564-2-ND	4,000	10.98/M	GRM188F51H153ZA01D
			22000pF	+80, -20%	0.8	490-1565-1-ND	.39	2.28	6.56	490-1565-2-ND	4,000	6.00/M	GRM188F51H223ZA01D
			33000pF	+80, -20%	0.8	490-1566-1-ND	.69	4.10	11.81	490-1566-2-ND	4,000	11.34/M	GRM188F51H333ZA01D
			47000pF	+80, -20%	0.8	490-1567-1-ND	.39	2.28	6.56	490-1567-2-ND	4,000	6.00/M	GRM188F51H473ZA01D
			.1µF	+80, -20%	0.8	490-1568-1-ND	.35	2.08	6.00	490-1568-2-ND	4,000	6.00/M	GRM188F51H104ZA01D
			.22µF	+80, -20%	0.8	490-1569-1-ND	.76	4.49	12.94	490-1569-2-ND	4,000	12.00/M	GRM188F51H224ZA01D
		25	1000pF	+80, -20%	0.8	490-1570-1-ND	.57	3.38	9.75	490-1570-2-ND	4,000	9.36/M	GRM188F51E102ZA01D
			4700pF	+80, -20%	0.8	490-1571-1-ND	.57	3.38	9.75	490-1571-2-ND	4,000	9.36/M	GRM188F51E472ZA01D
			10000pF	+80, -20%	0.8	490-1572-1-ND	.57	3.38	9.75	490-1572-2-ND	4,000	9.36/M	GRM188F51E103ZA01D
			33000pF	+80, -20%	0.8	490-1573-1-ND	.57	3.38	9.75	490-1573-2-ND	4,000	9.36/M	GRM188F51E333ZA01D
			47000pF	+80, -20%	0.8	490-1574-1-ND	.53	3.12	9.00	490-1574-2-ND	4,000	8.64/M	GRM188F51E473ZA01D
			.1µF	+80, -20%	0.8	490-1575-1-ND	.33	1.95	5.63	490-1575-2-ND	4,000	5.00/M	GRM188F51E104ZA01D
			.22µF	+80, -20%	0.8	490-3299-1-ND	.76	4.49	12.94	490-3299-2-ND	4,000	12.00/M	GRM188F51E224ZA01D
			.47µF	+80, -20%	0.8	490-3300-1-ND	.74	4.36	12.56	490-3300-2-ND	4,000	12.00/M	GRM188F51E474ZA01D
			1.0µF	+80, -20%	0.8	490-3895-1-ND	.72	4.23	12.19	490-3895-2-ND	4,000	12.00/M	GRM188F51E105ZA12D
		16	47000pF	+80, -20%	0.8	490-1576-1-ND	.53	3.12	9.00	490-1576-2-ND	4,000	8.64/M	GRM188F51C473ZA01D
			.1µF	+80, -20%	0.8	490-1577-1-ND	.33	1.95	5.63	490-1577-2-ND	4,000	5.00/M	GRM188F51C104ZA01D
			.15µF	+80, -20%	0.8	490-1578-1-ND	1.08	6.37	18.38	490-1578-2-ND	4,000	17.64/M	GRM188F51C154ZA01D
			.22µF	+80, -20%	0.8	490-3301-1-ND	.64	3.77	10.88	490-3301-2-ND	4,000	10.00/M	GRM188F51C224ZA01D
			.33µF	+80, -20%	0.8	490-1579-1-ND	.92	5.46	15.75	490-1579-2-ND	4,000	15.00/M	GRM188F51C334ZA01D
			.47µF	+80, -20%	0.8	490-1580-1-ND	.69	4.10	11.81	490-1580-2-ND	4,000	11.00/M	GRM188F51C474ZA01D

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Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0603	Y5V	10	.68µF	+80, -20%	0.8	490-1581-1-ND	.97	5.72	16.50	490-1581-2-ND	4,000	15.84/M	GRM188F51C684ZA01D
			1.0µF	+80, -20%	0.8	490-1582-1-ND	.47	2.80	8.06	490-1582-2-ND	4,000	8.00/M	GRM188F51C105ZA01D
			.47µF	+80, -20%	0.8	490-1583-1-ND	.97	5.72	16.50	490-1583-2-ND	4,000	15.84/M	GRM188F51A474ZA01D
			.68µF	+80, -20%	0.8	490-1584-1-ND	2.18	12.87	37.13	490-1584-2-ND	4,000	35.64/M	GRM188F51A684ZA01D
			1.0µF	+80, -20%	0.8	490-1585-1-ND	.47	2.80	8.06	490-1585-2-ND	4,000	8.00/M	GRM188F51A105ZA01D
			2.2µF	+80, -20%	0.8	490-1586-1-ND	1.11	6.57	18.94	490-1586-2-ND	4,000	18.00/M	GRM188F51A225ZE01D
			4.7µF	+80, -20%	0.8	490-3302-1-ND	1.25	7.41	21.38	490-3302-2-ND	4,000	21.00/M	GRM188F51A475ZE20D
		6.3	2.2µF	+80, -20%	0.8	490-1587-1-ND	1.11	6.57	18.94	490-1587-2-ND	4,000	18.00/M	GRM188F50J225ZE01D
			4.7µF	+80, -20%	0.8	490-3303-1-ND	1.25	7.41	21.38	490-3303-2-ND	4,000	21.00/M	GRM188F50J475ZE20D
	Z5U	50	10000pF	±20%	0.8	490-1588-1-ND	.65	3.84	11.06	—	—	—	GRM188E41H103MA01D
0805	C0G (NP0)	100	10pF	±5%	0.85	490-1590-1-ND	2.02	11.96	34.50	490-1590-2-ND	4,000	33.00/M	GRM2195C2A100JZ01D
			22pF	±5%	0.85	490-1591-1-ND	2.08	12.29	35.44	490-1591-2-ND	4,000	34.00/M	GRM2195C2A220JZ01D
			33pF	±5%	0.85	490-1592-1-ND	2.08	12.29	35.44	490-1592-2-ND	4,000	34.00/M	GRM2195C2A330JZ01D
			47pF	±5%	0.85	490-1593-1-ND	2.08	12.29	35.44	490-1593-2-ND	4,000	34.00/M	GRM2195C2A470JZ01D
			56pF	±5%	0.85	490-1594-1-ND	2.08	12.29	35.44	490-1594-2-ND	4,000	34.00/M	GRM2195C2A560JZ01D
			68pF	±5%	0.85	490-1595-1-ND	2.02	11.96	34.50	490-1595-2-ND	4,000	33.00/M	GRM2195C2A680JZ01D
			75pF	±5%	0.85	490-1596-1-ND	1.90	11.25	32.44	490-1596-2-ND	4,000	31.00/M	GRM2195C2A750JZ01D
			82pF	±5%	0.85	490-1597-1-ND	2.02	11.96	34.50	490-1597-2-ND	4,000	33.00/M	GRM2195C2A820JZ01D
			91pF	±5%	0.85	490-1598-1-ND	1.77	10.47	30.19	490-1598-2-ND	4,000	28.98/M	GRM2195C2A910JZ01D
			100pF	±5%	0.6	490-1599-1-ND	.90	5.33	15.38	490-1599-2-ND	4,000	15.00/M	GRM2165C2A101JA01D
			110pF	±5%	0.6	490-1600-1-ND	1.10	6.50	18.75	490-1600-2-ND	4,000	18.00/M	GRM2165C2A111JA01D
			120pF	±5%	0.6	490-1601-1-ND	.97	5.72	16.50	490-1601-2-ND	4,000	16.00/M	GRM2165C2A121JA01D
			130pF	±5%	0.6	490-1602-1-ND	1.10	6.50	18.75	490-1602-2-ND	4,000	18.00/M	GRM2165C2A131JA01D
			150pF	±5%	0.6	490-1603-1-ND	.97	5.72	16.50	490-1603-2-ND	4,000	16.00/M	GRM2165C2A151JA01D
			160pF	±5%	0.6	490-1604-1-ND	1.10	6.50	18.75	490-1604-2-ND	4,000	18.00/M	GRM2165C2A161JA01D
			180pF	±5%	0.6	490-1605-1-ND	.97	5.72	16.50	490-1605-2-ND	4,000	16.00/M	GRM2165C2A181JA01D
			200pF	±5%	0.6	490-1606-1-ND	1.10	6.50	18.75	490-1606-2-ND	4,000	18.00/M	GRM2165C2A201JA01D
			220pF	±5%	0.6	490-1607-1-ND	1.07	6.31	18.19	490-1607-2-ND	4,000	17.00/M	GRM2165C2A221JA01D
			240pF	±5%	0.6	490-1608-1-ND	1.31	7.74	22.31	490-1608-2-ND	4,000	21.42/M	GRM2165C2A241JA01D
			270pF	±5%	0.6	490-1609-1-ND	1.13	6.70	19.31	490-1609-2-ND	4,000	19.00/M	GRM2165C2A271JA01D
			330pF	±5%	0.6	490-1610-1-ND	1.28	7.54	21.75	490-1610-2-ND	4,000	21.00/M	GRM2165C2A331JA01D
			390pF	±5%	0.6	490-3306-1-ND	1.31	7.74	22.31	490-3306-2-ND	4,000	21.00/M	GRM2165C2A391JA01D
			470pF	±5%	0.6	490-1611-1-ND	1.43	8.45	24.38	490-1611-2-ND	4,000	23.00/M	GRM2165C2A471JA01D
			560pF	±5%	0.6	490-1612-1-ND	1.46	8.65	24.94	490-1612-2-ND	4,000	24.00/M	GRM2165C2A561JA01D
			680pF	±5%	0.85	490-1613-1-ND	1.68	9.95	28.69	490-1613-2-ND	4,000	27.54/M	GRM2195C2A681JA01D
			820pF	±5%	0.85	490-3311-1-ND	1.45	8.58	24.75	490-3311-2-ND	4,000	23.76/M	GRM2195C2A821JA01D
			1000pF	±5%	0.85	490-1614-1-ND	1.31	7.74	22.31	490-1614-2-ND	4,000	21.00/M	GRM2195C2A102JA01D
			1200pF	±5%	0.85	490-3313-1-ND	1.33	7.87	22.69	490-3313-2-ND	4,000	22.00/M	GRM2195C2A122JA01D
			1500pF	±5%	0.85	490-3314-1-ND	1.33	7.87	22.69	490-3314-2-ND	4,000	22.00/M	GRM2195C2A152JA01D
		50	100pF	±5%	0.6	490-1615-1-ND	.62	3.64	10.50	490-1615-2-ND	4,000	10.00/M	GRM2165C1H101JA01D
			150pF	±5%	0.6	490-3315-1-ND	.80	4.75	13.69	490-3315-2-ND	4,000	13.00/M	GRM2165C1H151JA01D
			220pF	±5%	0.6	490-1616-1-ND	.91	5.40	15.56	490-1616-2-ND	4,000	15.00/M	GRM2165C1H221JA01D
			330pF	±5%	0.6	490-3316-1-ND	1.07	6.31	18.19	490-3316-2-ND	4,000	17.00/M	GRM2165C1H331JA01D
			470pF	±5%	0.6	490-1617-1-ND	1.36	8.06	23.25	490-1617-2-ND	4,000	22.00/M	GRM2165C1H471JA01D
			620pF	±5%	0.6	490-1618-1-ND	1.73	10.21	29.44	490-1618-2-ND	4,000	28.26/M	GRM2165C1H621JA01D
			680pF	±5%	0.6	490-1619-1-ND	1.46	8.65	24.94	490-1619-2-ND	4,000	24.00/M	GRM2165C1H681JA01D
			750pF	±5%	0.6	490-1620-1-ND	1.77	10.47	30.19	490-1620-2-ND	4,000	28.98/M	GRM2165C1H751JA01D
			910pF	±5%	0.6	490-1621-1-ND	1.74	10.27	29.63	490-1621-2-ND	4,000	28.44/M	GRM2165C1H911JA01D
			1000pF	±5%	0.6	490-1622-1-ND	1.09	6.44	18.56	490-1622-2-ND	4,000	18.00/M	GRM2165C1H102JA01D
			1100pF	±5%	0.6	490-1623-1-ND	1.45	8.58	24.75	490-1623-2-ND	4,000	23.76/M	GRM2165C1H112JA01D
			1300pF	±5%	0.6	490-1624-1-ND	1.53	9.04	26.06	490-1624-2-ND	4,000	25.02/M	GRM2165C1H132JA01D
			1600pF	±5%	0.6	490-1625-1-ND	1.49	8.78	25.31	490-1625-2-ND	4,000	24.30/M	GRM2165C1H162JA01D
			1800pF	±5%	0.6	490-1626-1-ND	1.31	7.74	22.31	490-1626-2-ND	4,000	21.00/M	GRM2165C1H182JA01D
			2000pF	±5%	0.6	490-1627-1-ND	1.74	10.27	29.63	490-1627-2-ND	4,000	28.44/M	GRM2165C1H202JA01D
			2200pF	±5%	0.6	490-1628-1-ND	1.49	8.78	25.31	490-1628-2-ND	4,000	24.00/M	GRM2165C1H222JA01D
			2400pF	±5%	0.6	490-1629-1-ND	1.76	10.40	30.00	490-1629-2-ND	4,000	29.00/M	GRM2165C1H242JA01D
			2700pF	±5%	0.6	490-1630-1-ND	1.73	10.21	29.44	490-1630-2-ND	4,000	28.00/M	GRM2165C1H272JA01D
			3000pF	±5%	0.6	490-1631-1-ND	2.11	12.48	36.00	490-1631-2-ND	4,000	34.56/M	GRM2165C1H302JA01D
			3300pF	±5%	0.6	490-1632-1-ND	1.93	11.38	32.81	490-1632-2-ND	4,000	32.00/M	GRM2165C1H332JA01D
			3900pF	±5%	0.6	490-3045-1-ND	2.00	11.83	34.13	490-3045-2-ND	4,000	33.00/M	GRM2165C1H392JA01D
			4700pF	±5%	0.6	490-3044-1-ND	2.11	12.48	36.00	490-3044-2-ND	4,000	35.00/M	GRM2165C1H472JA01D
			5100pF	±5%	0.85	490-1635-1-ND	2.70	15.93	45.94	490-1635-2-ND	4,000	44.10/M	GRM2195C1H512JA01D
			5600pF	±5%	0.85	490-1636-1-ND	2.46	14.56	42.00	490-1636-2-ND	4,000	40.00/M	GRM2195C1H562JA01D
			6200pF	±5%	0.85	490-1637-1-ND	3.30	19.50	56.25	490-1637-2-ND	4,000	54.00/M	GRM2195C1H622JA01D
			6800pF	±5%	0.85	490-1638-1-ND	2.98	17.62	50.81	490-1638-2-ND	4,000	49.00/M	GRM2195C1H682JA01D
			7500pF	±5%	0.85	490-1639-1-ND	3.50	20.67	59.63	490-1639-2-ND	4,000	57.24/M	GRM2195C1H752JA01D
			8200pF	±5%	0.85	490-1640-1-ND	3.18	18.79	54.19	490-1640-2-ND	4,000	52.00/M	GRM2195C1H822JA01D
			9100pF	±5%	0.85	490-1641-1-ND	3.63	21.45	61.88	490-1641-2-ND	4,000	59.40/M	GRM2195C1H912JA01D
			10000pF	±5%	0.85	490-1642-1-ND	4.51	26.65	76.88	490-1642-2-ND	4,000	74.00/M	GRM2195C1H103JA01D
			12000pF	±5%	0.85	490-3320-1-ND	4.93	29.12	84.00	490-3320-2-ND	4,000	81.00/M	GRM2195C1H123JA01D
			15000pF	±5%	0.85	490-1643-1-ND	4.93	29.12	84.00	490-1643-2-ND	4,000	81.00/M	GRM2195C1H153JA01D
			18000pF	±5%	1.25	490-3321-1-ND	5.10	30.16	87.00	490-3321-2-ND	3,000	84.00/M	GRM21B5C1H183JA01L
			22000pF	±5%	1.25	490-1644-1-ND	4.65	27.50	79.31	490-1644-2-ND	3,000	76.00/M	GRM21B5C1H223JA01L
	X7R	250	1000pF	±10%	1.0	490-3525-1-ND	1.44	8.52	24.56	490-3525-2-ND	4,000	24.00/M	GRM21AR72E102KW01D
			1500pF	±10%	1.0	490-3527-1-ND	1.62	9.56	27.56	490-3527-2-ND	4,000	26.00/M	GRM21AR72E152KW01D
			2200pF	±10%	1.0	490-3529-1-ND	1.54	9.10	26.25	490-3529-2-ND	4,000	25.00/M	GRM21AR72E222KW01D
			3300pF	±10%	1.0	490-3531-1-ND	1.57	9.30	26.81	490-3531-2-ND	4,000	26.00/M	GRM21AR72E332KW01D
			4700pF	±10%	1.0	490-3532-1-ND	1.57	9.30	26.81	490-3532-2-ND	4,000	26.00/M	GRM21AR72E472KW01D
			6800pF	±10%	1.0	490-3533-1-ND	1.79	10.60	30.56	490-3533-2-ND	4,000	29.00/M	GRM21AR72E682KW01D
			10000pF	±10%	1.25	490-3534-1-ND	1.52	8.97	25.88	490-3534-2-ND	3,000	25.00/M	GRM21BR72E103KW03L
		100	3900pF	±10%	0.85	490-1645-1-ND	1.36	8.06	23.25	490-1645-2-ND	4,000	22.32/M	GRM219R72A392KA01D
			4700pF	±10%	0.85	490-1646-1-ND	.95	5.59	16.13	490-1646-2-ND	4,000	15.00/M	GRM219R72A472KA01D
			4700pF	±20%	0.85	490-1647-1-ND	1.01	5.98	17.25	490-1647-2-ND	4,000	16.56/M	GRM219R72A472MA01D
			5600pF	±10%	0.85	490-1648-1-ND	1.39	8.19	23.63	490-1648-2-ND	4,000	22.68/M	GRM219R72A562KA01D
			6800pF	±10%	0.85	490-1649-1-ND	1.03	6.11	17.63	490-1649-2-ND	4,000	17.00/M	GRM219R72A682KA01D
			6800pF	±20%	0.85	490-1650-1-ND	1.08	6.37	18.38	490-1650-2-ND	4,000	17.64/M	GRM219R72A682MA01D
			8200pF	±10%	1.25	490-1651-1-ND	1.38	8.13	23.44	490-1651-2-ND	3,000	22.50/M	GRM21BR72A822KA01L
			10000pF	±10%	1.25	490-1652-1-ND	.97	5.72	16.50	490-1652-2-ND	3,000	16.00/M	GRM21BR72A103KA01L
			10000pF	±20%	1.25	490-1653-1-ND	1.17	6.89	19.88	490-1653-2-ND	3,000	19.08/M	GRM21BR72A103MA01L
			12000pF	±10%	1.25	490-1654-1-ND	1.52	8.97	25.88	490-1654-2-ND	3,000	24.84/M	GRM21BR72A123KA01L
			15000pF	±10%	1.25	490-1655-1-ND	1.14	6.76	19.50	490-1655-2-ND	3,000	19.00/M	GRM21BR72A153KA01L
			15000pF	±20%	1.25	490-1656-1-ND	1.22	7.22	20.81	490-1656-2-ND	3,000	19.98/M	GRM21BR72A153MA01L
			18000pF	±10%	1.25	490-1657-1-ND	1.52	8.97	25.88	490-1657-2-ND	3,000	24.84/M	GRM21BR72A183KA01L
			22000pF	±10%	1.25	490-1658-1-ND	1.41	8.32	24.00	490-1658-2-ND	3,000	23.00/M	GRM21BR72A223KA01L
			22000pF	±20%	1.25	490-1659-1-ND	1.49	8.78	25.31	490-1659-2-ND	3,000	24.30/M	GRM21BR72A223MA01L
			33000pF	±10%	1.25	490-3323-1-ND	1.86	10.99	31.69	490-3323-2-ND	3,000	30.00/M	GRM21BR72A333KA01L
			47000pF	±10%	1.25	490-3325-1-ND	1.76	10.40	30.00	490-3325-2-ND	3,000	29.00/M	GRM21BR72A473KA01L
			.47µF	±10%	1.25	490-3326-1-ND	6.93	40.95	118.13	490-3326-2-ND	3,000	113.00/M	GRM21BR72A474KA73L
		50	10000pF	±10%	0.6	490-1664-1-ND	.47	2.80	8.06	490-1664-2-ND	4,000	8.00/M	GRM216R71H103KA01D
			22000pF	±10%	0.6	490-1665-1-ND	.68	4.03	11.63	490-1665-2-ND	4,000	11.00/M	GRM216R71H223KA01D
			33000pF	±10%	0.85	490-1660-1-ND	.95	5.59	16.13	490-1660-2-ND	4,000	15.00/M	GRM219R71H333KA01D
			47000pF	±10%	1.25	490-1661-1-ND	.88	5.20	15.00	490-1661-2-ND	3,000	14.00/M	GRM21BR71H473KA01L
			47000pF	±20%	1.25	490-4742-1-ND	1.34	7.93	22.88	490-4742-2-ND	3,000	22.00/M	GRM21BR71H473MA01L
			56000pF	±10%	1.25	490-1662-1-ND	1.61	9.49	27.38	490-1662-2-ND	3,000	26.28/M	GRM21BR71H563KA01L
			68000pF	±10%	1.25	490-1663-1-ND	1.72	10.14	29.25	490-1663-2-ND	3,000	28.00/M	GRM21BR71H683KA01L
			.1µF	±10%	1.25	490-1666-1-ND	1.07	6.31	18.19	490-1666-2-ND	3,000	17.00/M	GRM21BR71H104KA01L

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0805	X7R	50	.15µF	±10%	1.25	490-1667-1-ND	2.49	14.69	42.38	490-1667-2-ND	3,000	41.00/M	GRM21BR71H154KA01L
			.15µF	±20%	1.25	490-1668-1-ND	2.61	15.41	44.44	490-1668-2-ND	3,000	42.66/M	GRM21BR71H154MA01L
			.18µF	±10%	1.25	490-1669-1-ND	3.37	19.89	57.38	490-1669-2-ND	3,000	55.08/M	GRM21BR71H184KA01L
			.22µF	±10%	1.25	490-1670-1-ND	2.57	15.21	43.88	490-1670-2-ND	3,000	42.00/M	GRM21BR71H224KA01L
			.22µF	±20%	1.25	490-1671-1-ND	2.64	15.60	45.00	490-1671-2-ND	3,000	43.20/M	GRM21BR71H224MA01L
			.33µF	±10%	0.85	490-3327-1-ND	3.07	18.14	52.31	490-3327-2-ND	4,000	50.00/M	GRM219R71H334KA88D
			.47µF	±10%	1.25	490-3328-1-ND	3.27	19.31	55.69	490-3328-2-ND	3,000	53.00/M	GRM21BR71H474KA88L
			1.0µF	±10%	1.25	490-4736-1-ND	4.84	28.60	82.50	490-4736-2-ND	3,000	79.00/M	GRM21BR71H105KA12L
		25	68000pF	±10%	0.85	490-3046-1-ND	1.24	7.35	21.19	490-3046-2-ND	4,000	20.00/M	GRM219R71E683KA01D
			.1µF	±10%	1.25	490-1673-1-ND	1.10	6.50	18.75	490-1673-2-ND	3,000	18.00/M	GRM21BR71E104KA01L
			.15µF	±10%	1.25	490-1674-1-ND	1.96	11.57	33.38	490-1674-2-ND	3,000	32.00/M	GRM21BR71E154KA01L
			.22µF	±10%	0.85	490-1675-1-ND	1.79	10.60	30.56	490-1675-2-ND	4,000	29.00/M	GRM219R71E224KA01D
			.27µF	±10%	0.85	490-1676-1-ND	3.87	22.88	66.00	490-1676-2-ND	4,000	63.36/M	GRM219R71E274KA01D
			.33µF	±10%	1.25	490-1677-1-ND	3.39	20.02	57.75	490-1677-2-ND	3,000	55.00/M	GRM21BR71E334KA01L
			.39µF	±10%	1.25	490-1679-1-ND	4.93	29.12	84.00	490-1679-2-ND	3,000	80.64/M	GRM21BR71E394KA01L
			.47µF	±10%	1.25	490-1680-1-ND	3.27	19.31	55.69	490-1680-2-ND	3,000	53.00/M	GRM21BR71E474KC01L
			.47µF	±20%	1.25	490-1681-1-ND	3.84	22.69	65.44	490-1681-2-ND	3,000	62.82/M	GRM21BR71E474MA01L
			2.2µF	±10%	1.25	490-3331-1-ND	3.85	22.75	65.63	490-3331-2-ND	3,000	63.00/M	GRM21BR71E225KA73L
		16	68000pF	±10%	0.85	490-1682-1-ND	1.39	8.19	23.63	490-1682-2-ND	4,000	22.68/M	GRM219R71C683KA01D
			.1µF	±10%	0.85	490-1683-1-ND	.74	4.36	12.56	490-1683-2-ND	4,000	12.00/M	GRM219R71C104KA01D
			.22µF	±10%	0.85	490-1684-1-ND	1.78	10.53	30.38	490-1684-2-ND	4,000	29.00/M	GRM219R71C224KA01D
			.47µF	±10%	0.85	490-1685-1-ND	3.32	19.63	56.63	490-1685-2-ND	4,000	54.36/M	GRM219R71C474KC01D
			.47µF	±20%	0.85	490-1686-1-ND	3.32	19.63	56.63	490-1686-2-ND	4,000	54.36/M	GRM219R71C474MC01D
			.47µF	±10%	1.25	490-3333-1-ND	3.27	19.31	55.69	490-3333-2-ND	3,000	53.00/M	GRM21BR71C474KA01L
			.56µF	±10%	0.85	490-1687-1-ND	4.83	28.54	82.31	490-1687-2-ND	4,000	79.02/M	GRM219R71C564KC01D
			.68µF	±10%	0.85	490-1688-1-ND	2.29	13.52	39.00	490-1688-2-ND	4,000	37.00/M	GRM219R71C684KC01D
			.68µF	±10%	0.85	490-4741-1-ND	2.28	13.46	38.81	490-4741-2-ND	4,000	37.00/M	GRM219R71C684KA01D
			.82µF	±10%	1.25	490-1690-1-ND	5.61	33.15	95.63	490-1690-2-ND	3,000	91.80/M	GRM21BR71C824KC01L
			1.0µF	±10%	1.25	490-1691-1-ND	1.06	6.24	18.00	490-1691-2-ND	3,000	17.00/M	GRM21BR71C105KA01L
			1.0µF	±20%	1.25	490-1692-1-ND	1.12	6.63	19.13	490-1692-2-ND	3,000	18.00/M	GRM21BR71C105MA01L
			2.2µF	±10%	1.25	490-3906-1-ND	3.25	19.18	55.31	490-3906-2-ND	3,000	53.00/M	GRM21BR71C225KA12L
			4.7µF	±10%	1.25	490-4522-1-ND	4.82	28.47	82.13	490-4522-2-ND	3,000	79.00/M	GRM21BR71C475KA73L
		10	.22µF	±10%	0.6	490-1693-1-ND	1.88	11.12	32.06	490-1693-2-ND	4,000	30.78/M	GRM216R71A224KC01D
			.33µF	±10%	0.6	490-1694-1-ND	2.28	13.46	38.81	490-1694-2-ND	4,000	37.26/M	GRM216R71A334KC01D
			1.0µF	±10%	1.25	490-1695-1-ND	1.12	6.63	19.13	490-1695-2-ND	3,000	18.00/M	GRM21BR71A105KA01L
			2.2µF	±10%	1.25	490-1696-1-ND	1.94	11.44	33.00	490-1696-2-ND	3,000	32.00/M	GRM21BR71A225KA01L
			2.2µF	±20%	1.25	490-1697-1-ND	3.19	18.85	54.38	490-1697-2-ND	3,000	52.20/M	GRM21BR71A225MA01L
			10µF	±10%	1.25	490-3905-1-ND	5.32	31.46	90.75	490-3905-2-ND	3,000	87.00/M	GRM21BR71A106KE51L
		6.3	2.2µF	±10%	1.25	490-1698-1-ND	1.94	11.44	33.00	490-1698-2-ND	3,000	32.00/M	GRM21BR70J225KA01L
			2.2µF	±20%	1.25	490-1699-1-ND	2.10	12.42	35.81	490-1699-2-ND	3,000	34.00/M	GRM21BR70J225MA01L
			10µF	±10%	1.25	490-3904-1-ND	5.32	31.46	90.75	490-3904-2-ND	3,000	87.00/M	GRM21BR70J106KE76L
	X6S	10	4.7µF	±10%	0.85	490-3901-1-ND	2.90	17.16	49.50	490-3901-2-ND	4,000	39.00/M	GRM219C81A475KE34D
	X5R	25	1.0µF	±10%	0.6	490-1700-1-ND	3.20	18.92	54.56	490-1700-2-ND	4,000	52.00/M	GRM216R61E105KA12D
			2.2µF	±10%	0.85	490-1701-1-ND	5.09	30.10	86.81	490-1701-2-ND	4,000	83.00/M	GRM219R61E225KA12D
			2.2µF	±10%	1.25	490-3334-1-ND	3.71	21.91	63.19	490-3334-2-ND	3,000	61.00/M	GRM21BR61E225KA12L
			4.7µF	±10%	1.25	490-3335-1-ND	3.33	19.70	56.81	490-3335-2-ND	3,000	55.00/M	GRM21BR61E475KA12L
		16	2.2µF	±10%	0.85	490-3902-1-ND	4.77	28.21	81.38	490-3902-2-ND	4,000	78.00/M	GRM219R61C225KA88D
			2.2µF	±10%	1.25	490-3336-1-ND	2.63	15.54	44.81	490-3336-2-ND	3,000	43.00/M	GRM21BR61C225KA88L
			3.3µF	±10%	1.25	490-3337-1-ND	3.83	22.62	65.25	490-3337-2-ND	3,000	62.64/M	GRM21BR61C335KA88L
			4.7µF	±10%	1.25	490-3338-1-ND	4.29	25.35	73.13	490-3338-2-ND	3,000	70.00/M	GRM21BR61C475KA88L
			10µF	±10%	1.25	490-3886-1-ND	5.89	34.78	100.31	490-3886-2-ND	3,000	96.00/M	GRM21BR61C106KE15L
		10	1.0µF	±10%	0.85	490-1702-1-ND	1.62	9.56	27.56	490-1702-2-ND	4,000	26.46/M	GRM219R61A105KC01D
			1.0µF	±20%	0.85	490-1703-1-ND	.94	5.53	15.94	490-1703-2-ND	4,000	15.00/M	GRM219R61A105MA01D
			2.2µF	±10%	0.6	490-1704-1-ND	2.86	16.90	48.75	490-1704-2-ND	4,000	47.00/M	GRM216R61A225KE24D
			2.2µF	±20%	0.6	490-1705-1-ND	3.04	17.94	51.75	490-1705-2-ND	4,000	50.00/M	GRM216R61A225ME24D
			3.3µF	±10%	0.85	490-1706-1-ND	4.02	23.73	68.44	490-1706-2-ND	4,000	65.70/M	GRM219R61A335KE19D
			4.7µF	±10%	0.85	490-1707-1-ND	6.40	37.83	109.13	490-1707-2-ND	4,000	104.76/M	GRM219R61A475KE19D
			4.7µF	±20%	0.85	490-1708-1-ND	6.39	37.77	108.94	490-1708-2-ND	4,000	104.58/M	GRM219R61A475ME19D
			10µF	±10%	0.85	490-4735-1-ND	3.37	19.89	57.38	490-4735-2-ND	4,000	55.00/M	GRM219R61A106KE44D
			10µF	±10%	1.25	490-1709-1-ND	3.72	21.97	63.38	490-1709-2-ND	3,000	61.00/M	GRM21BR61A106KE19L
		6.3	1.5µF	±10%	0.85	490-1710-1-ND	3.74	22.10	63.75	490-1710-2-ND	4,000	61.20/M	GRM219R60J155KC01D
			1.5µF	±20%	0.85	490-1711-1-ND	3.72	21.97	63.38	490-1711-2-ND	4,000	60.84/M	GRM219R60J155MC01D
			2.2µF	±10%	1.25	490-1712-1-ND	2.10	12.42	35.81	490-1712-2-ND	3,000	34.00/M	GRM21BR60J225KA01L
			3.3µF	±10%	1.25	490-1713-1-ND	5.98	35.36	102.00	490-1713-2-ND	3,000	97.92/M	GRM21BR60J335KA11L
			3.3µF	±20%	1.25	490-1714-1-ND	5.18	30.62	88.31	490-1714-2-ND	3,000	84.78/M	GRM21BR60J335MA11L
			4.7µF	±10%	0.85	490-1715-1-ND	6.40	37.83	109.13	490-1715-2-ND	4,000	104.76/M	GRM219R60J475KE01D
			4.7µF	±20%	0.85	490-1716-1-ND	6.40	37.83	109.13	490-1716-2-ND	4,000	104.76/M	GRM219R60J475ME01D
			10µF	±10%	0.85	490-3340-1-ND	3.21	18.98	54.75	490-3340-2-ND	4,000	53.00/M	GRM219R60J106KE19D
			10µF	±10%	1.25	490-1717-1-ND	3.23	19.11	55.13	490-1717-2-ND	3,000	53.00/M	GRM21BR60J106KE19L
			10µF	±20%	1.25	490-1718-1-ND	3.23	19.11	55.13	490-1718-2-ND	3,000	53.00/M	GRM21BR60J106ME19L
			22µF	±20%	1.25	490-1719-1-ND	6.72	39.72	114.56	490-1719-2-ND	3,000	110.00/M	GRM21BR60J226ME39L
	Y5V	100	10000pF	+80, -20%	1.25	490-3342-1-ND	2.06	12.16	35.06	490-3342-2-ND	3,000	33.66/M	GRM21BF52A103ZD01L
		50	10000pF	+80, -20%	0.6	490-1720-1-ND	.48	2.86	8.25	490-1720-2-ND	4,000	8.00/M	GRM216F51H103ZA01D
			33000pF	+80, -20%	0.6	490-1721-1-ND	.75	4.42	12.75	490-1721-2-ND	4,000	12.24/M	GRM216F51H333ZA01D
			68000pF	+80, -20%	0.6	490-1722-1-ND	.86	5.07	14.63	490-1722-2-ND	4,000	14.04/M	GRM216F51H683ZA01D
			.1µF	+80, -20%	0.85	490-1723-1-ND	.65	3.84	11.06	490-1723-2-ND	4,000	11.00/M	GRM219F51H104ZA01D
			.15µF	+80, -20%	0.85	490-1724-1-ND	1.60	9.43	27.19	490-1724-2-ND	4,000	26.10/M	GRM219F51H154ZA01D
			.22µF	+80, -20%	0.6	490-3047-1-ND	1.47	8.71	25.13	490-3047-2-ND	4,000	24.00/M	GRM216F51H224ZA01D
			1.0µF	+80, -20%	1.25	490-3903-1-ND	1.02	6.05	17.44	490-3903-2-ND	3,000	17.00/M	GRM21BF51H105ZA12L
		25	.1µF	+80, -20%	0.6	490-1726-1-ND	.52	3.06	8.81	490-1726-2-ND	4,000	8.00/M	GRM216F51E104ZA01D
			.15µF	+80, -20%	0.6	490-1727-1-ND	1.36	8.06	23.25	490-1727-2-ND	4,000	22.32/M	GRM216F51E154ZA01D
			.22µF	+80, -20%	0.85	490-1728-1-ND	1.28	7.54	21.75	490-1728-2-ND	4,000	21.00/M	GRM219F51E224ZA01D
			.33µF	+80, -20%	1.25	490-1729-1-ND	2.09	12.35	35.63	490-1729-2-ND	3,000	34.20/M	GRM21BF51E334ZA01L
			.47µF	+80, -20%	0.6	490-3346-1-ND	1.46	8.65	24.94	490-3346-2-ND	4,000	24.00/M	GRM216F51E474ZA01D
			.47µF	+80, -20%	1.25	490-1730-1-ND	1.82	10.73	30.94	490-1730-2-ND	3,000	30.00/M	GRM21BF51E474ZA01L
			1.0µF	+80, -20%	0.85	490-1731-1-ND	.74	4.36	12.56	490-1731-2-ND	4,000	12.00/M	GRM219F51E105ZA01D
			1.5µF	+80, -20%	1.25	490-1732-1-ND	1.78	10.53	30.38	490-1732-2-ND	3,000	29.16/M	GRM21BF51E155ZA01L
			2.2µF	+80, -20%	1.25	490-1733-1-ND	1.39	8.19	23.63	490-1733-2-ND	3,000	23.00/M	GRM21BF51E225ZA01L
			4.7µF	+80, -20%	1.25	490-3345-1-ND	3.07	18.14	52.31	490-3345-2-ND	3,000	50.00/M	GRM21BF51E475ZA01L
		16	.1µF	+80, -20%	0.6	490-1734-1-ND	.74	4.36	12.56	490-1734-2-ND	4,000	12.06/M	GRM216F51C104ZA01D
			.22µF	+80, -20%	0.85	490-1735-1-ND	1.47	8.71	25.13	490-1735-2-ND	4,000	24.12/M	GRM219F51C224ZA01D
			.33µF	+80, -20%	0.85	490-1736-1-ND	2.11	12.48	36.00	490-1736-2-ND	4,000	34.56/M	GRM219F51C334ZA01D
			.47µF	+80, -20%	1.25	490-1737-1-ND	2.10	12.42	35.81	490-1737-2-ND	3,000	34.38/M	GRM21BF51C474ZA01L
			.68µF	+80, -20%	1.25	490-1738-1-ND	3.08	18.20	52.50	490-1738-2-ND	3,000	50.40/M	GRM21BF51C684ZA01L
			1.0µF	+80, -20%	0.85	490-1739-1-ND	.74	4.36	12.56	490-1739-2-ND	4,000	12.00/M	GRM219F51C105ZA01D
			1.5µF	+80, -20%	1.25	490-1740-1-ND	2.13	12.61	36.38	490-1740-2-ND	3,000	34.92/M	GRM21BF51C155ZA01L
			2.2µF	+80, -20%	1.25	490-1741-1-ND	1.11	6.57	18.94	490-1741-2-ND	3,000	18.00/M	GRM21BF51C225ZA01L
			10µF	+80, -20%	1.25	490-3347-1-ND	2.62	15.47	44.63	490-3347-2-ND	3,000	43.00/M	GRM21BF51C106ZE15L
		10	1.5µF	+80, -20%	1.25	490-1742-1-ND	1.78	10.53	30.38	490-1742-2-ND	3,000	29.16/M	GRM21BF51A155ZA01L
			2.2µF	+80, -20%	1.25	490-1743-1-ND	1.11	6.57	18.94	490-1743-2-ND	3,000	18.00/M	GRM21BF51A225ZA01L
			3.3µF	+80, -20%	0.85	490-1744-1-ND	3.45	20.41	58.88	490-1744-2-ND	4,000	56.52/M	GRM219F51A335ZA01D
			4.7µF	+80, -20%	1.25	490-1745-1-ND	1.39	8.19	23.63	490-1745-2-ND	3,000	23.00/M	GRM21BF51A475ZA01L
			10µF	+80, -20%	1.25	490-3332-1-ND	1.73	10.21	29.44	490-3332-2-ND	3,000	28.00/M	GRM21BF51A106ZE15L
		6.3	10µF	+80, -20%	1.25	490-1746-1-ND	1.73	10.21	29.44	490-1746-2-ND	3,000	28.00/M	GRM21BF50J106ZE01L
	Z5U	50	.1µF	±20%	0.85	490-1748-1-ND	.77	4.55	13.13	490-1748-2-ND	4,000	13.00/M	GRM219E41H104MA01D

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
1206	C0G (NP0)	100	1000pF	±5%	0.85	490-3348-1-ND	3.07	18.14	52.31	490-3348-2-ND	4,000	50.00/M	GRM3195C2A102JA01D
			1500pF	±5%	0.85	490-3349-1-ND	4.16	24.57	70.88	490-3349-2-ND	4,000	68.00/M	GRM3195C2A152JA01D
			2200pF	±5%	0.85	490-3350-1-ND	4.95	29.25	84.38	490-3350-2-ND	4,000	81.00/M	GRM3195C2A222JA01D
			3300pF	±5%	0.85	490-3351-1-ND	4.68	27.63	79.69	490-3351-2-ND	4,000	77.00/M	GRM3195C2A332JA01D
			4700pF	±5%	0.85	490-3352-1-ND	6.66	39.33	113.44	490-3352-2-ND	4,000	109.00/M	GRM3195C2A472JA01D
			5600pF	±5%	0.85	490-3353-1-ND	7.17	42.38	122.25	490-3353-2-ND	4,000	117.00/M	GRM3195C2A562JA01D
		50	1000pF	±5%	0.85	490-1749-1-ND	2.65	15.67	45.19	490-1749-2-ND	4,000	43.00/M	GRM3195C1H102JA01D
			1500pF	±5%	0.85	490-3354-1-ND	3.15	18.59	53.63	490-3354-2-ND	4,000	51.00/M	GRM3195C1H152JA01D
			2200pF	±5%	0.85	490-3355-1-ND	3.43	20.28	58.50	490-3355-2-ND	4,000	56.00/M	GRM3195C1H222JA01D
			3300pF	±5%	0.85	490-3356-1-ND	3.85	22.75	65.63	490-3356-2-ND	4,000	63.00/M	GRM3195C1H332JA01D
			4700pF	±5%	0.85	490-3357-1-ND	4.63	27.37	78.94	490-3357-2-ND	4,000	76.00/M	GRM3195C1H472JA01D
			5600pF	±5%	0.85	490-1750-1-ND	5.02	29.64	85.50	490-1750-2-ND	4,000	82.00/M	GRM3195C1H562JA01D
			6200pF	±5%	0.85	490-1751-1-ND	5.18	30.62	88.31	490-1751-2-ND	4,000	84.78/M	GRM3195C1H622JA01D
			6800pF	±5%	0.85	490-1752-1-ND	5.35	31.59	91.13	490-1752-2-ND	4,000	87.00/M	GRM3195C1H682JA01D
			8200pF	±5%	0.85	490-1753-1-ND	5.68	33.54	96.75	490-1753-2-ND	4,000	93.00/M	GRM3195C1H822JA01D
			10000pF	±5%	0.85	490-1754-1-ND	6.00	35.43	102.19	490-1754-2-ND	4,000	98.00/M	GRM3195C1H103JA01D
			11000pF	±5%	0.85	490-1755-1-ND	6.36	37.57	108.38	490-1755-2-ND	4,000	104.04/M	GRM3195C1H113JA01D
			12000pF	±5%	0.85	490-1756-1-ND	6.39	37.77	108.94	490-1756-2-ND	4,000	105.00/M	GRM3195C1H123JA01D
			13000pF	±5%	0.85	490-1757-1-ND	6.36	37.57	108.38	490-1757-2-ND	4,000	104.04/M	GRM3195C1H133JA01D
			15000pF	±5%	0.85	490-1758-1-ND	6.48	38.29	110.44	490-1758-2-ND	4,000	106.00/M	GRM3195C1H153JA01D
			18000pF	±5%	0.85	490-1759-1-ND	6.55	38.68	111.56	490-1759-2-ND	4,000	107.00/M	GRM3195C1H183JA01D
			20000pF	±5%	0.85	490-1760-1-ND	6.49	38.35	110.63	490-1760-2-ND	4,000	106.20/M	GRM3195C1H203JA01D
			22000pF	±5%	0.85	490-1761-1-ND	6.62	39.13	112.88	490-1761-2-ND	4,000	108.00/M	GRM3195C1H223JA01D
			27000pF	±5%	0.85	490-1762-1-ND	6.72	39.72	114.56	490-1762-2-ND	4,000	110.00/M	GRM3195C1H273JA01D
			33000pF	±5%	0.85	490-1763-1-ND	6.83	40.37	116.44	490-1763-2-ND	4,000	112.00/M	GRM3195C1H333JA01D
			39000pF	±5%	1.15	490-3358-1-ND	7.17	42.38	122.25	490-3358-2-ND	3,000	117.36/M	GRM31M5C1H393JA01L
			47000pF	±5%	1.15	490-1764-1-ND	7.43	43.88	126.56	490-1764-2-ND	3,000	122.00/M	GRM31M5C1H473JA01L
			56000pF	±5%	1.6	490-3359-1-ND	8.01	47.32	136.50	490-3359-2-ND	2,000	131.00/M	GRM31C5C1H563JA01L
			68000pF	±5%	1.6	490-3360-1-ND	8.18	48.36	139.50	490-3360-2-ND	2,000	134.00/M	GRM31C5C1H683JA01L
			82000pF	±5%	1.6	490-1765-1-ND	8.57	50.64	146.06	490-1765-2-ND	2,000	140.00/M	GRM31C5C1H823JA01L
		25	39000pF	±5%	0.85	490-3361-1-ND	7.12	42.06	121.31	490-3361-2-ND	4,000	116.46/M	GRM3195C1E393JA01D
			68000pF	±5%	1.6	490-1766-1-ND	8.04	47.52	137.06	490-1766-2-ND	2,000	131.58/M	GRM31C5C1E683JA01L
			.1µF	±5%	1.6	490-1767-1-ND	8.89	52.52	151.50	490-1767-2-ND	2,000	145.00/M	GRM31C5C1E104JA01L
	U2J	1,000	47pF	±5%	1.0	490-4299-1-ND	5.35	31.59	91.13	490-4299-2-ND	4,000	87.00/M	GRM31A7U3A470JW31D
			68pF	±5%	1.0	490-4300-1-ND	5.35	31.59	91.13	490-4300-2-ND	4,000	87.00/M	GRM31A7U3A680JW31D
			100pF	±5%	1.0	490-4301-1-ND	5.35	31.59	91.13	490-4301-2-ND	4,000	87.00/M	GRM31A7U3A101JW31D
			150pF	±5%	1.0	490-4302-1-ND	5.87	34.71	100.13	490-4302-2-ND	4,000	96.00/M	GRM31A7U3A151JW31D
			220pF	±5%	1.0	490-4303-1-ND	5.87	34.71	100.13	490-4303-2-ND	4,000	96.00/M	GRM31A7U3A221JW31D
			330pF	±5%	1.0	490-4304-1-ND	5.87	34.71	100.13	490-4304-2-ND	4,000	96.00/M	GRM31A7U3A331JW31D
			470pF	±5%	1.25	490-4305-1-ND	6.58	38.87	112.13	490-4305-2-ND	3,000	108.00/M	GRM31B7U3A471JW31L
		630	100pF	±5%	1.0	490-4290-1-ND	4.10	24.25	69.94	490-4290-2-ND	4,000	67.00/M	GRM31A7U2J101JW31D
			150pF	±5%	1.0	490-4291-1-ND	4.04	23.86	68.81	490-4291-2-ND	4,000	66.00/M	GRM31A7U2J151JW31D
			220pF	±5%	1.0	490-4292-1-ND	4.27	25.22	72.75	490-4292-2-ND	4,000	70.00/M	GRM31A7U2J221JW31D
			330pF	±5%	1.0	490-4293-1-ND	4.27	25.22	72.75	490-4293-2-ND	4,000	70.00/M	GRM31A7U2J331JW31D
			470pF	±5%	1.0	490-4294-1-ND	4.27	25.22	72.75	490-4294-2-ND	4,000	70.00/M	GRM31A7U2J471JW31D
			680pF	±5%	1.0	490-4295-1-ND	4.49	26.52	76.50	490-4295-2-ND	4,000	73.00/M	GRM31A7U2J681JW31D
			1000pF	±5%	1.0	490-4296-1-ND	4.70	27.76	80.06	490-4296-2-ND	4,000	77.00/M	GRM31A7U2J102JW31D
	X7R	1,000	1000pF	±10%	1.25	490-3494-1-ND	4.66	27.56	79.50	490-3494-2-ND	3,000	76.00/M	GRM31BR73A102KW01L
			1500pF	±10%	1.25	490-3495-1-ND	4.70	27.76	80.06	490-3495-2-ND	3,000	77.00/M	GRM31BR73A152KW01L
			2200pF	±10%	1.25	490-3496-1-ND	4.80	28.34	81.75	490-3496-2-ND	3,000	78.00/M	GRM31BR73A222KW01L
			3300pF	±10%	1.25	490-3497-1-ND	4.84	28.60	82.50	490-3497-2-ND	3,000	79.00/M	GRM31BR73A332KW01L
			4700pF	±10%	1.25	490-3498-1-ND	4.97	29.38	84.75	490-3498-2-ND	3,000	81.00/M	GRM31BR73A472KW01L
		630	1000pF	±10%	1.25	490-3506-1-ND	3.71	21.91	63.19	490-3506-2-ND	3,000	61.00/M	GRM31BR72J102KW01L
			1500pF	±10%	1.25	490-3507-1-ND	3.88	22.95	66.19	490-3507-2-ND	3,000	64.00/M	GRM31BR72J152KW01L
			2200pF	±10%	1.25	490-3508-1-ND	4.17	24.64	71.06	490-3508-2-ND	3,000	68.00/M	GRM31BR72J222KW01L
			3300pF	±10%	1.25	490-3509-1-ND	4.14	24.44	70.50	490-3509-2-ND	3,000	68.00/M	GRM31BR72J332KW01L
			4700pF	±10%	1.25	490-3510-1-ND	4.24	25.03	72.19	490-3510-2-ND	3,000	69.00/M	GRM31BR72J472KW01L
			6800pF	±10%	1.25	490-3511-1-ND	4.70	27.76	80.06	490-3511-2-ND	3,000	77.00/M	GRM31BR72J682KW01L
			10000pF	±10%	1.25	490-3512-1-ND	4.24	25.03	72.19	490-3512-2-ND	3,000	69.00/M	GRM31BR72J103KW01L
			15000pF	±10%	1.6	490-3513-1-ND	4.42	26.13	75.38	490-3513-2-ND	2,000	72.00/M	GRM31CR72J153KW03L
		250	15000pF	±10%	1.25	490-3535-1-ND	4.63	27.37	78.94	490-3535-2-ND	3,000	76.00/M	GRM31BR72E153KW01L
			22000pF	±10%	1.25	490-3536-1-ND	4.63	27.37	78.94	490-3536-2-ND	3,000	76.00/M	GRM31BR72E223KW01L
			33000pF	±10%	1.6	490-3537-1-ND	4.63	27.37	78.94	490-3537-2-ND	2,000	76.00/M	GRM31CR72E333KW03L
			47000pF	±10%	1.6	490-3538-1-ND	4.60	27.17	78.38	490-3538-2-ND	2,000	75.00/M	GRM31CR72E473KW03L
			68000pF	±10%	1.25	490-3540-1-ND	4.52	26.72	77.06	490-3540-2-ND	3,000	74.00/M	GRM31BR72E683KW01L
			.1µF	±10%	1.6	490-3542-1-ND	4.53	26.78	77.25	490-3542-2-ND	2,000	74.00/M	GRM31CR72E104KW03L
		100	27000pF	±10%	1.15	490-1768-1-ND	5.82	34.39	99.19	490-1768-2-ND	3,000	95.22/M	GRM31MR72A273KA01L
			33000pF	±10%	1.15	490-1770-1-ND	1.73	10.21	29.44	490-1770-2-ND	3,000	28.00/M	GRM31MR72A333KA01L
			33000pF	±20%	1.15	490-1769-1-ND	1.83	10.79	31.13	490-1769-2-ND	3,000	29.88/M	GRM31MR72A333MA01L
			39000pF	±10%	1.15	490-1771-1-ND	1.84	10.86	31.31	490-1771-2-ND	3,000	30.06/M	GRM31MR72A393KA01L
			47000pF	±10%	1.15	490-1773-1-ND	1.74	10.27	29.63	490-1773-2-ND	3,000	28.00/M	GRM31MR72A473KA01L
			47000pF	±20%	1.15	490-1772-1-ND	6.57	38.81	111.94	490-1772-2-ND	3,000	107.46/M	GRM31MR72A473MA01L
			68000pF	±10%	1.15	490-3363-1-ND	2.07	12.22	35.25	490-3363-2-ND	3,000	34.00/M	GRM31MR72A683KA01L
			1.0µF	±10%	1.6	490-3909-1-ND	8.69	51.35	148.13	490-3909-2-ND	2,000	142.00/M	GRM31CR72A105KA01L
		50	10000pF	±10%	0.85	490-1774-1-ND	1.40	8.26	23.81	490-1774-2-ND	4,000	23.00/M	GRM319R71H103KA01D
			.1µF	±10%	0.85	490-1775-1-ND	1.54	9.10	26.25	490-1775-2-ND	4,000	25.00/M	GRM319R71H104KA01D
			.22µF	±10%	0.85	490-1776-1-ND	2.89	17.10	49.31	490-1776-2-ND	4,000	47.00/M	GRM319R71H224KA01D
			.27µF	±10%	0.85	490-1777-1-ND	4.26	25.16	72.56	490-1777-2-ND	4,000	69.66/M	GRM319R71H274KA01D
			.33µF	±10%	0.85	490-1778-1-ND	4.03	23.79	68.63	490-1778-2-ND	4,000	66.00/M	GRM319R71H334KA01D
			.33µF	±20%	0.85	490-1779-1-ND	4.25	25.09	72.38	490-1779-2-ND	4,000	69.48/M	GRM319R71H334MA01D
			.39µF	±10%	1.15	490-1780-1-ND	6.20	36.66	105.75	490-1780-2-ND	3,000	101.52/M	GRM31MR71H394KA01L
			.47µF	±10%	1.15	490-1781-1-ND	5.32	31.46	90.75	490-1781-2-ND	3,000	87.00/M	GRM31MR71H474KA01L
			.47µF	±20%	1.15	490-1782-1-ND	6.20	36.66	105.75	490-1782-2-ND	3,000	101.52/M	GRM31MR71H474MA01L
			1.0µF	±10%	1.6	490-3908-1-ND	3.14	18.53	53.44	490-3908-2-ND	2,000	51.00/M	GRM31CR71H105KA61L
			2.2µF	±10%	1.6	490-3367-1-ND	4.84	28.60	82.50	490-3367-2-ND	2,000	79.00/M	GRM31CR71H225KA88L
		25	.33µF	±10%	0.85	490-1783-1-ND	4.04	23.86	68.81	490-1783-2-ND	4,000	66.00/M	GRM319R71E334KA01D
			.47µF	±10%	0.85	490-1784-1-ND	4.65	27.50	79.31	490-1784-2-ND	4,000	76.00/M	GRM319R71E474KA01D
			.68µF	±10%	0.85	490-1787-1-ND	5.63	33.28	96.00	490-1787-2-ND	4,000	92.00/M	GRM319R71E684KA01D
			.68µF	±20%	0.85	490-1786-1-ND	6.07	35.88	103.50	490-1786-2-ND	4,000	99.36/M	GRM319R71E684MA01D
			.82µF	±10%	1.15	490-1788-1-ND	6.12	36.14	104.25	490-1788-2-ND	3,000	100.08/M	GRM31MR71E824KA01L
			1.0µF	±10%	1.15	490-1789-1-ND	2.52	14.89	42.94	490-1789-2-ND	3,000	41.00/M	GRM31MR71E105KC01L
			1.0µF	±20%	1.15	490-1790-1-ND	3.42	20.22	58.31	490-1790-2-ND	3,000	55.98/M	GRM31MR71E105MC01L
			2.2µF	±10%	1.15	490-3368-1-ND	3.42	20.22	58.31	490-3368-2-ND	3,000	56.00/M	GRM31MR71E225KA93L
			4.7µF	±10%	1.6	490-1809-1-ND	4.96	29.32	84.56	490-1809-2-ND	2,000	81.00/M	GRM31CR71E475KA88L
		16	.47µF	±10%	0.85	490-1791-1-ND	4.52	26.72	77.06	490-1791-2-ND	3,000	73.98/M	GRM319R71C474KC01L
			.56µF	±10%	0.85	490-1792-1-ND	5.31	31.40	90.56	490-1792-2-ND	4,000	86.94/M	GRM319R71C564KA01D
			.68µF	±10%	1.15	490-1793-1-ND	5.63	33.28	96.00	490-1793-2-ND	3,000	92.16/M	GRM31MR71C684KA01L
			1.0µF	±10%	0.85	490-1794-1-ND	2.63	15.54	44.81	490-1794-2-ND	4,000	43.02/M	GRM319R71C105KC11D
			1.0µF	±20%	0.85	490-1795-1-ND	2.63	15.54	44.81	490-1795-2-ND	4,000	43.02/M	GRM319R71C105MC11D
			1.5µF	±10%	1.15	490-1797-1-ND	3.49	20.61	59.44	490-1797-2-ND	3,000	57.06/M	GRM31MR71C155KA35L
			1.5µF	±20%	1.15	490-1796-1-ND	3.49	20.61	59.44	490-1796-2-ND	3,000	57.06/M	GRM31MR71C155MA35L
			2.2µF	±10%	1.15	490-1799-1-ND	1.87	11.05	31.88	490-1799-2-ND	3,000	31.00/M	GRM31MR71C225KA35L
			2.2µF	±20%	1.15	490-1798-1-ND	3.53	20.87	60.19	490-1798-2-ND	3,000	57.78/M	GRM31MR71C225MA35L
			10µF	±10%	1.6	490-3911-1-ND	4.98	29.45	84.94	490-3911-2-ND	2,000	82.00/M	GRM31CR71C106KAC7L
		10	1.0µF	±10%	0.85	490-1800-1-ND	2.64	15.60	45.00	490-1800-2-ND	4,000	43.20/M	GRM319R71A105KC01D

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
1206	X7R	10	1.0µF	±20%	0.85	490-1801-1-ND	2.63	15.54	44.81	490-1801-2-ND	4,000	43.02/M	GRM319R71A105MC01D
			2.2µF	±10%	1.15	490-1803-1-ND	2.72	16.06	46.31	490-1803-2-ND	3,000	44.00/M	GRM31MR71A225KA01L
			2.2µF	±20%	1.15	490-1802-1-ND	4.11	24.31	70.13	490-1802-2-ND	3,000	67.32/M	GRM31MR71A225MA01L
			4.7µF	±10%	1.6	490-1805-1-ND	3.65	21.58	62.25	490-1805-2-ND	2,000	60.00/M	GRM31CR71A475KA01L
			4.7µF	±20%	1.6	490-1804-1-ND	6.40	37.83	109.13	490-1804-2-ND	2,000	104.76/M	GRM31CR71A475MA01L
			10µF	±10%	1.6	490-3371-1-ND	4.81	28.41	81.94	490-3371-2-ND	2,000	79.00/M	GRM31CR71A106KA01L
		6.3	10µF	±10%	1.6	490-1806-1-ND	4.81	28.41	81.94	490-1806-2-ND	2,000	79.00/M	GRM31CR70J106KA01L
	X6S	10	22µF	±20%	1.6	490-4737-1-ND	13.49	79.69	229.88	490-4737-2-ND	2,000	221.00/M	GRM31CC81A226ME19L
		4	47µF	±20%	1.6	490-4523-1-ND	18.72	110.63	319.13	490-4523-2-ND	2,000	306.00/M	GRM31CC80G476ME19L
	X5R	25	1.0µF	±10%	0.85	490-1807-1-ND	2.92	17.23	49.69	490-1807-2-ND	4,000	47.70/M	GRM319R61E105KC36D
			2.2µF	±10%	0.6	490-1808-1-ND	5.45	32.18	92.81	490-1808-2-ND	4,000	89.00/M	GRM316R61E225KA12D
			4.7µF	±10%	0.85	490-3372-1-ND	8.22	48.56	140.06	490-3372-2-ND	4,000	134.00/M	GRM319R61E475KA12D
			10µF	±10%	1.6	490-3373-1-ND	7.85	46.41	133.88	490-3373-2-ND	2,000	129.00/M	GRM31CR61E106KA12L
		16	1.0µF	±10%	1.15	490-1810-1-ND	3.18	18.79	54.19	490-1810-2-ND	3,000	52.02/M	GRM31MR61C105KA01L
			2.2µF	±10%	1.15	490-1811-1-ND	3.53	20.87	60.19	490-1811-2-ND	3,000	57.78/M	GRM31MR61C225KA35L
			4.7µF	±10%	0.85	490-3374-1-ND	7.95	47.00	135.56	490-3374-2-ND	4,000	130.00/M	GRM319R61C475KA88D
			4.7µF	±10%	1.6	490-1812-1-ND	4.07	24.05	69.38	490-1812-2-ND	2,000	67.00/M	GRM31CR61C475KA01L
			4.7µF	±20%	1.6	490-1813-1-ND	5.81	34.32	99.00	490-1813-2-ND	2,000	95.04/M	GRM31CR61C475MA01L
			10µF	±10%	1.6	490-1814-1-ND	5.84	34.52	99.56	490-1814-2-ND	2,000	96.00/M	GRM31CR61C106KC31L
			22µF	±20%	1.6	490-4739-1-ND	13.56	80.15	231.19	490-4739-2-ND	2,000	222.00/M	GRM31CR61C226ME15L
		10	2.2µF	±10%	0.85	490-1815-1-ND	2.44	14.43	41.63	490-1815-2-ND	4,000	40.00/M	GRM319R61A225KA01D
			2.2µF	±20%	0.85	490-1816-1-ND	3.32	19.63	56.63	490-1816-2-ND	4,000	54.36/M	GRM319R61A225MA01D
			3.3µF	±10%	0.85	490-1817-1-ND	7.11	41.99	121.13	490-1817-2-ND	4,000	116.28/M	GRM319R61A335KA01D
			4.7µF	±10%	0.85	490-3377-1-ND	6.67	39.39	113.63	490-3377-2-ND	4,000	109.00/M	GRM319R61A475KA01D
			4.7µF	±10%	0.6	490-1818-1-ND	4.75	28.08	81.00	490-1818-2-ND	4,000	78.00/M	GRM316R61A475KE19D
			10µF	±10%	0.85	490-3378-1-ND	14.80	87.43	252.19	490-3378-2-ND	4,000	242.00/M	GRM319R61A106KE19D
			10µF	±10%	1.6	490-1820-1-ND	4.88	28.86	83.25	490-1820-2-ND	2,000	80.00/M	GRM31CR61A106KA01L
			10µF	±20%	1.15	490-1819-1-ND	6.80	40.17	115.88	490-1819-2-ND	3,000	111.24/M	GRM31MR61A106ME19L
			22µF	±20%	1.6	490-4738-1-ND	13.49	79.69	229.88	490-4738-2-ND	2,000	221.00/M	GRM31CR61A226ME19L
		6.3	4.7µF	±10%	1.15	490-3043-1-ND	5.13	30.29	87.38	490-3043-2-ND	3,000	83.88/M	GRM31MR60J475KC11L
			10µF	±10%	0.85	490-1823-1-ND	16.45	97.18	280.31	490-1823-2-ND	4,000	269.00/M	GRM319R60J106KE01D
			10µF	±20%	0.85	490-1822-1-ND	16.45	97.18	280.31	490-1822-2-ND	4,000	269.00/M	GRM319R60J106ME01D
			10µF	±10%	1.15	490-3379-1-ND	5.60	33.09	95.44	490-3379-2-ND	3,000	92.00/M	GRM31MR60J106KE19L
			22µF	±10%	1.6	490-1824-1-ND	8.04	47.52	137.06	490-1824-2-ND	2,000	132.00/M	GRM31CR60J226KE19L
			47µF	±20%	1.6	490-3907-1-ND	18.72	110.63	319.13	490-3907-2-ND	2,000	306.00/M	GRM31CR60J476ME19L
			100µF	±20%	1.6	490-4539-1-ND	43.69	258.18	744.75	490-4539-2-ND	2,000	715.00/M	GRM31CR60J107ME39L
	Y5V	100	47000pF	+80, -20%	1.15	490-3380-1-ND	7.05	41.67	120.19	490-3380-2-ND	3,000	115.38/M	GRM31MF52A473ZD01L
		50	.1µF	+80, -20%	0.85	490-1825-1-ND	1.21	7.15	20.63	490-1825-2-ND	4,000	20.00/M	GRM319F51H104ZA01D
			.33µF	+80, -20%	0.85	490-1826-1-ND	2.04	12.03	34.69	490-1826-2-ND	4,000	33.00/M	GRM319F51H334ZA01D
			.47µF	+80, -20%	1.15	490-1827-1-ND	3.86	22.82	65.81	490-1827-2-ND	3,000	63.00/M	GRM31MF51H474ZA01L
			2.2µF	+80, -20%	1.15	490-3381-1-ND	3.16	18.66	53.81	490-3381-2-ND	3,000	52.00/M	GRM31MF51H225ZA01L
			4.7µF	+80, -20%	1.6	490-1828-1-ND	4.24	25.03	72.19	490-1828-2-ND	2,000	69.30/M	GRM31CF51H475ZA01L
		25	.22µF	+80, -20%	0.85	490-1829-1-ND	2.10	12.42	35.81	490-1829-2-ND	4,000	34.38/M	GRM319F51E224ZA01D
			.47µF	+80, -20%	0.85	490-1830-1-ND	2.46	14.56	42.00	490-1830-2-ND	4,000	40.00/M	GRM319F51E474ZA01D
			.68µF	+80, -20%	1.15	490-1831-1-ND	3.75	22.17	63.94	490-1831-2-ND	3,000	61.38/M	GRM31MF51E684ZA01L
			1.0µF	+80, -20%	1.15	490-1832-1-ND	1.67	9.88	28.50	490-1832-2-ND	3,000	27.00/M	GRM31MF51E105ZA01L
			4.7µF	+80, -20%	1.15	490-1833-1-ND	3.73	22.04	63.56	490-1833-2-ND	3,000	61.00/M	GRM31MF51E475ZA01L
			10µF	+80, -20%	1.6	490-3382-1-ND	5.94	35.10	101.25	490-3382-2-ND	2,000	97.00/M	GRM31CF51E106ZA01L
		16	.47µF	+80, -20%	0.85	490-1834-1-ND	2.73	16.12	46.50	490-1834-2-ND	3,000	44.64/M	GRM319F51C474ZA01L
			1.0µF	+80, -20%	0.85	490-1835-1-ND	1.86	10.99	31.69	490-1835-2-ND	4,000	30.00/M	GRM319F51C105ZA01D
			1.5µF	+80, -20%	1.15	490-1836-1-ND	3.30	19.50	56.25	490-1836-2-ND	3,000	54.00/M	GRM31MF51C155ZA01L
			2.2µF	+80, -20%	1.15	490-1837-1-ND	2.99	17.68	51.00	490-1837-2-ND	3,000	49.00/M	GRM31MF51C225ZA01L
			3.3µF	+80, -20%	1.15	490-1838-1-ND	3.72	21.97	63.38	490-1838-2-ND	3,000	60.84/M	GRM31MF51C335ZA01L
			4.7µF	+80, -20%	1.15	490-1839-1-ND	1.80	10.66	30.75	490-1839-2-ND	3,000	30.00/M	GRM31MF51C475ZA01L
			10µF	+80, -20%	1.15	490-3383-1-ND	3.00	17.75	51.19	490-3383-2-ND	3,000	49.00/M	GRM31MF51C106ZA12L
		10	2.2µF	+80, -20%	0.85	490-1840-1-ND	2.94	17.36	50.06	490-1840-2-ND	4,000	48.00/M	GRM319F51A225ZA01D
			3.3µF	+80, -20%	0.85	490-1841-1-ND	3.82	22.56	65.06	490-1841-2-ND	4,000	62.46/M	GRM319F51A335ZA01D
			4.7µF	+80, -20%	1.15	490-1842-1-ND	1.80	10.66	30.75	490-1842-2-ND	3,000	30.00/M	GRM31MF51A475ZA01L
			10µF	+80, -20%	1.15	490-1843-1-ND	2.16	12.74	36.75	490-1843-2-ND	3,000	35.00/M	GRM31MF51A106ZA01L
			22µF	+80, -20%	1.6	490-1844-1-ND	5.40	31.92	92.06	490-1844-2-ND	2,000	88.00/M	GRM31CF51A226ZE01L
		6.3	10µF	+80, -20%	1.15	490-1845-1-ND	2.16	12.74	36.75	490-1845-2-ND	3,000	35.00/M	GRM31MF50J106ZA01L
			22µF	+80, -20%	1.6	490-1846-1-ND	5.40	31.92	92.06	490-1846-2-ND	2,000	88.00/M	GRM31CF50J226ZE01L
			100µF	+80, -20%	1.6	490-4512-1-ND	22.30	131.76	380.06	490-4512-2-ND	2,000	365.00/M	GRM31CF50J107ZE01L
	Z5U	50	.22µF	±20%	0.85	490-1847-1-ND	2.24	13.26	38.25	490-1847-2-ND	4,000	37.00/M	GRM319E41H224MA01D
1210	U2J	630	1500pF	±5%	1.0	490-4297-1-ND	10.80	63.83	184.13	490-4297-2-ND	4,000	177.00/M	GRM32A7U2J152JW31D
			2200pF	±5%	1.0	490-4298-1-ND	10.80	63.83	184.13	490-4298-2-ND	4,000	177.00/M	GRM32A7U2J222JW31D
	X7R	1,000	6800pF	±10%	1.5	490-3499-1-ND	9.53	56.29	162.38	490-3499-2-ND	2,000	156.00/M	GRM32QR73A682KW01L
			10000pF	±10%	1.5	490-3500-1-ND	9.66	57.07	164.63	490-3500-2-ND	2,000	158.00/M	GRM32QR73A103KW01L
			15000pF	±10%	2.0	490-3501-1-ND	11.36	67.15	193.69	490-3501-2-ND	1,000	186.00	GRM32DR73A153KW01L
			22000pF	±10%	2.0	490-3502-1-ND	11.65	68.84	198.56	490-3502-2-ND	1,000	191.00	GRM32DR73A223KW01L
		630	22000pF	±10%	1.5	490-3514-1-ND	7.14	42.19	121.69	490-3514-2-ND	2,000	117.00/M	GRM32QR72J223KW01L
			33000pF	±10%	2.0	490-3515-1-ND	7.57	44.72	129.00	490-3515-2-ND	1,000	124.00	GRM32DR72J333KW01L
			47000pF	±10%	2.0	490-3516-1-ND	10.48	61.95	178.69	490-3516-2-ND	1,000	172.00	GRM32DR72J473KW01L
		250	68000pF	±10%	1.5	490-3539-1-ND	6.45	38.09	109.88	490-3539-2-ND	2,000	105.00/M	GRM32QR72E683KW01L
			.1µF	±10%	2.0	490-3541-1-ND	5.93	35.04	101.06	490-3541-2-ND	1,000	97.00	GRM32DR72E104KW01L
			.22µF	±10%	2.0	490-3545-1-ND	6.92	40.89	117.94	490-3545-2-ND	1,000	113.00	GRM32DR72E224KW01L
		100	56000pF	±10%	1.35	490-1848-1-ND	7.91	46.74	134.81	490-1848-2-ND	2,000	129.42/M	GRM32NR72A563KA01L
			68000pF	±10%	1.35	490-1850-1-ND	8.07	47.71	137.63	490-1850-2-ND	2,000	132.00/M	GRM32NR72A683KA01L
			68000pF	±20%	1.35	490-1849-1-ND	7.95	47.00	135.56	490-1849-2-ND	2,000	130.14/M	GRM32NR72A683MA01L
			82000pF	±10%	1.35	490-1851-1-ND	8.17	48.30	139.31	490-1851-2-ND	2,000	133.74/M	GRM32NR72A823KA01L
			.1µF	±10%	1.35	490-1853-1-ND	8.58	50.70	146.25	490-1853-2-ND	2,000	140.00/M	GRM32NR72A104KA01L
			.1µF	±20%	1.35	490-1852-1-ND	8.45	49.92	144.00	490-1852-2-ND	2,000	138.24/M	GRM32NR72A104MA01L
			.68µF	±10%	1.6	490-1854-1-ND	12.44	73.52	212.06	490-1854-2-ND	2,000	204.00/M	GRM32CR72A684KA01L
			.68µF	±20%	1.6	490-1855-1-ND	12.25	72.41	208.88	490-1855-2-ND	2,000	200.52/M	GRM32CR72A684MA01L
			1.0µF	±10%	2.5	490-1857-1-ND	13.35	78.91	227.63	490-1857-2-ND	1,000	219.00	GRM32ER72A105KA01L
			1.0µF	±20%	2.5	490-1856-1-ND	13.77	81.38	234.75	490-1856-2-ND	1,000	225.00	GRM32ER72A105MA01L
			2.2µF	±10%	2.5	490-3385-1-ND	29.80	176.09	507.94	490-3385-2-ND	1,000	488.00	GRM32ER72A225KA35L
		50	.56µF	±10%	1.35	490-1858-1-ND	7.92	46.80	135.00	490-1858-2-ND	2,000	129.60/M	GRM32NR71H564KA01L
			.68µF	±10%	1.35	490-1860-1-ND	8.47	50.05	144.38	490-1860-2-ND	2,000	139.00/M	GRM32NR71H684KA01L
			.68µF	±20%	1.35	490-1859-1-ND	8.33	49.21	141.94	490-1859-2-ND	2,000	136.26/M	GRM32NR71H684MA01L
			.82µF	±10%	1.8	490-1861-1-ND	9.00	53.17	153.38	490-1861-2-ND	1,000	147.24	GRM32RR71H824KA01L
			1.0µF	±10%	1.8	490-1863-1-ND	6.39	37.77	108.94	490-1863-2-ND	1,000	105.00	GRM32RR71H105KA01L
			1.0µF	±20%	1.8	490-1862-1-ND	6.59	38.94	112.31	490-1862-2-ND	1,000	107.82	GRM32RR71H105MA01L
			3.3µF	±10%	2.0	490-3386-1-ND	20.83	123.11	355.13	490-3386-2-ND	1,000	341.00	GRM32DR71H335KA88L
			4.7µF	±10%	2.5	490-1864-1-ND	25.21	148.98	429.75	490-1864-2-ND	1,000	413.00	GRM32ER71H475KA88L
		25	2.2µF	±10%	1.8	490-1865-1-ND	7.79	46.02	132.75	490-1865-2-ND	1,000	127.00	GRM32RR71E225KC01L
			2.2µF	±20%	1.8	490-1866-1-ND	8.36	49.40	142.50	490-1866-2-ND	1,000	136.80	GRM32RR71E225MC01L
			10µF	±10%	2.0	490-1867-1-ND	12.69	75.01	216.38	490-1867-2-ND	1,000	208.00	GRM32DR71E106KA12L
		16	3.3µF	±10%	1.35	490-1871-1-ND	12.30	72.67	209.63	490-1871-2-ND	2,000	201.24/M	GRM32NR71C335KC01L
			3.3µF	±20%	1.35	490-1870-1-ND	12.30	72.67	209.63	490-1870-2-ND	2,000	201.24/M	GRM32NR71C335MA01L
			10µF	±10%	2.0	490-1875-1-ND	12.69	75.01	216.38	490-1875-2-ND	1,000	208.00	GRM32DR71C106KA01L
			10µF	±20%	2.0	490-1874-1-ND	11.65	68.84	198.56	490-1874-2-ND	1,000	191.00	GRM32DR71C106MA01L
			2.2µF	±10%	1.15	490-1869-1-ND	10.40	61.43	177.19	490-1869-2-ND	3,000	170.10/M	GRM32MR71C225KC01L
			2.2µF	±20%	1.15	490-1868-1-ND	9.25	54.67	157.69	490-1868-2-ND	3,000	151.38/M	GRM32MR71C225MC01L
			4.7µF	±10%	1.8	490-1872-1-ND	10.80	63.83	184.13	490-1872-2-ND	1,000	177.00	GRM32RR71C475KC01L

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
1210	X7R	16	4.7µF	±20%	1.8	490-1873-1-ND	11.95	70.59	203.63	490-1873-2-ND	1,000	195.48	GRM32RR71C475MC01L
			22µF	±10%	2.5	490-4524-1-ND	27.96	165.23	476.63	490-4524-2-ND	1,000	458.00	GRM32ER71C226KE18L
			22µF	±20%	2.5	490-4740-1-ND	45.55	269.17	776.44	490-4740-2-ND	1,000	745.00	GRM32ER71C226ME18L
		10	22µF	±10%	2.5	490-1876-1-ND	27.01	159.58	460.31	490-1876-2-ND	1,000	442.00	GRM32ER71A226KE20L
	X5R	25	4.7µF	±10%	1.8	490-1877-1-ND	12.29	72.61	209.44	490-1877-2-ND	1,000	201.00	GRM32RR61E475KC31L
			10µF	±10%	2.0	490-1878-1-ND	12.69	75.01	216.38	490-1878-2-ND	1,000	208.00	GRM32DR61E106KA12L
			22µF	±10%	2.5	490-3889-1-ND	32.34	191.10	551.25	490-3889-2-ND	1,000	529.00	GRM32ER61E226KE15L
		16	4.7µF	±10%	1.8	490-1879-1-ND	11.47	67.80	195.56	490-1879-2-ND	1,000	187.74	GRM32RR61C475KC01L
			10µF	±10%	2.0	490-1880-1-ND	12.69	75.01	216.38	490-1880-2-ND	1,000	208.00	GRM32DR61C106KA01L
			22µF	±10%	2.5	490-1882-1-ND	27.96	165.23	476.63	490-1882-2-ND	1,000	458.00	GRM32ER61C226KE20L
			22µF	±20%	2.5	490-1881-1-ND	27.96	165.23	476.63	490-1881-2-ND	1,000	458.00	GRM32ER61C226ME20L
			47µF	±20%	2.5	490-3888-1-ND	27.64	163.35	471.19	490-3888-2-ND	1,000	452.00	GRM32ER61C476ME15L
		10	10µF	±10%	2.5	490-1883-1-ND	11.80	69.75	201.19	490-1883-2-ND	1,000	193.00	GRM32ER61A106KC01L
			10µF	±20%	2.5	490-1884-1-ND	11.80	69.75	201.19	490-1884-2-ND	1,000	193.00	GRM32ER61A106MC01L
			22µF	±10%	2.5	490-3388-1-ND	27.96	165.23	476.63	490-3388-2-ND	1,000	458.00	GRM32ER61A226KE20L
			47µF	±10%	2.5	490-3887-1-ND	27.64	163.35	452.00	490-3887-2-ND	1,000	452.00	GRM32ER61A476KE20L
		6.3	22µF	±10%	2.0	490-1886-1-ND	15.39	90.94	262.31	490-1886-2-ND	1,000	252.00	GRM32DR60J226KA01L
			22µF	±20%	2.0	490-1885-1-ND	27.96	165.23	476.63	490-1885-2-ND	1,000	457.56	GRM32DR60J226MA01L
			33µF	±20%	2.0	490-3389-1-ND	27.89	164.78	475.31	490-3389-2-ND	1,000	456.30	GRM32DR60J336ME19L
			47µF	±20%	2.5	490-1887-1-ND	26.03	153.79	443.63	490-1887-2-ND	1,000	426.00	GRM32ER60J476ME20L
			100µF	±20%	2.5	490-3390-1-ND	50.50	298.42	860.81	490-3390-2-ND	1,000	826.00	GRM32ER60J107ME20L
	Y5V	100	.1µF	+80, -20%	1.35	490-1888-1-ND	6.13	36.21	104.44	490-1888-2-ND	2,000	100.26/M	GRM32NF52A104ZA01L
		50	.68µF	+80, -20%	1.35	490-1889-1-ND	7.87	46.48	134.06	490-1889-2-ND	2,000	128.70/M	GRM32NF51H684ZA01L
			1.0µF	+80, -20%	1.8	490-1890-1-ND	5.39	31.85	91.88	490-1890-2-ND	1,000	88.00	GRM32RF51H105ZA01L
			10µF	+80, -20%	2.0	490-1891-1-ND	11.34	67.02	193.31	490-1891-2-ND	1,000	186.00	GRM32DF51H106ZA01L
		25	4.7µF	+80, -20%	0.85	490-1892-1-ND	7.03	41.54	119.81	490-1892-2-ND	4,000	115.00/M	GRM329F51E475ZA01D
			10µF	+80, -20%	1.35	490-1893-1-ND	6.70	39.59	114.19	490-1893-2-ND	2,000	110.00/M	GRM32NF51E106ZA01L
		16	10µF	+80, -20%	1.35	490-1894-1-ND	5.42	32.05	92.44	490-1894-2-ND	2,000	89.00/M	GRM32NF51C106ZA01L
			22µF	+80, -20%	1.6	490-3392-1-ND	7.01	41.41	119.44	490-3392-2-ND	2,000	115.00/M	GRM32CF51C226ZA12L
		10	10µF	+80, -20%	0.85	490-3393-1-ND	7.77	45.89	132.38	490-3393-2-ND	4,000	127.00/M	GRM329F51A106ZA01D
			22µF	+80, -20%	1.6	490-1895-1-ND	7.01	41.41	119.44	490-1895-2-ND	2,000	115.00/M	GRM32CF51A226ZA01L
		6.3	100µF	+80, -20%	2.5	490-3394-1-ND	27.64	163.35	471.19	490-3394-2-ND	1,000	452.00	GRM32EF50J107ZE20L
	Z5U	50	1.0µF	±20%	1.8	490-1896-1-ND	5.90	34.84	100.50	490-1896-2-ND	1,000	96.48	GRM32RE41H105MA01L
1808	U2J	3,150	56pF	±5%	1.0	490-4306-1-ND	10.44	61.69	177.94	490-4306-2-ND	3,000	171.00/M	GRM42A7U3F560JW31L
			68pF	±5%	1.0	490-4307-1-ND	10.44	61.69	177.94	490-4307-2-ND	3,000	171.00/M	GRM42A7U3F680JW31L
			82pF	±5%	1.0	490-4308-1-ND	10.44	61.69	177.94	490-4308-2-ND	3,000	171.00/M	GRM42A7U3F820JW31L
			100pF	±5%	1.0	490-4309-1-ND	10.44	61.69	177.94	490-4309-2-ND	3,000	171.00/M	GRM42A7U3F101JW31L
1812	C0G (NP0)	50	9100pF	±5%	1.8	490-1897-1-ND	49.30	291.33	840.38	490-1897-2-ND	1,000	806.76	GRM43R5C1H912JD01L
			11000pF	±5%	1.8	490-1898-1-ND	59.37	350.81	1011.94	490-1898-2-ND	1,000	971.46	GRM43R5C1H113JD01L
			13000pF	±5%	1.8	490-1899-1-ND	70.75	418.08	1206.00	490-1899-2-ND	1,000	1157.76	GRM43R5C1H133JD01L
	X7R	1,000	33000pF	±10%	2.0	490-3503-1-ND	19.64	116.03	334.69	490-3503-2-ND	1,000	321.00	GRM43DR73A333KW01L
			47000pF	±10%	2.0	490-3504-1-ND	20.59	121.68	351.00	490-3504-2-ND	1,000	337.00	GRM43DR73A473KW01L
		630	68000pF	±10%	1.5	490-3517-1-ND	14.43	85.28	246.00	490-3517-2-ND	1,000	236.00	GRM43QR72J683KW01L
			.1µF	±10%	2.0	490-3518-1-ND	13.88	82.03	236.63	490-3518-2-ND	1,000	227.00	GRM43DR72J104KW01L
		250	.15µF	±10%	1.5	490-3543-1-ND	14.58	86.13	248.44	490-3543-2-ND	1,000	239.00	GRM43QR72E154KW01L
			.22µF	±10%	2.0	490-3544-1-ND	14.58	86.13	248.44	490-3544-2-ND	1,000	239.00	GRM43DR72E224KW01L
			.33µF	±10%	2.0	490-3547-1-ND	14.03	82.88	239.06	490-3547-2-ND	1,000	230.00	GRM43DR72E334KW01L
			.47µF	±10%	2.0	490-3549-1-ND	16.60	98.09	282.94	490-3549-2-ND	1,000	272.00	GRM43DR72E474KW01L
		100	.12µF	±10%	1.8	490-1900-1-ND	11.53	68.12	196.50	490-1900-2-ND	1,000	188.64	GRM43RR72A124KA01L
			.15µF	±10%	1.8	490-1901-1-ND	12.21	72.15	208.13	490-1901-2-ND	1,000	199.80	GRM43RR72A154KA01L
			.18µF	±10%	1.8	490-1902-1-ND	15.75	93.08	268.50	490-1902-2-ND	1,000	257.76	GRM43RR72A184KA01L
			.22µF	±10%	1.8	490-1903-1-ND	17.38	102.70	296.25	490-1903-2-ND	1,000	284.00	GRM43RR72A224KA01L
			.22µF	±20%	1.8	490-1904-1-ND	17.07	100.88	291.00	490-1904-2-ND	1,000	279.36	GRM43RR72A224MA01L
			.47µF	±10%	2.0	490-1905-1-ND	31.04	183.43	529.13	490-1905-2-ND	1,000	508.00	GRM43DR72A474KA01L
			1.5µF	±10%	2.0	490-1906-1-ND	32.97	194.81	561.94	490-1906-2-ND	1,000	539.46	GRM43DR72A155KA01L
			1.5µF	±20%	2.0	490-1907-1 -ND	32.97	194.81	561.94	490-1907-2-ND	1,000	539.46	GRM43DR72A155MA01L
			2.2µF	±10%	2.5	490-1908-1-ND	36.09	213.27	—	490-1908-2-ND	500	295.50	GRM43ER72A225KA01L
			2.2µF	±20%	2.5	490-1909-1-ND	35.44	209.43	—	490-1909-2-ND	500	289.98	GRM43ER72A225MA01L
		50	1.5µF	±10%	2.0	490-1910-1-ND	26.84	158.60	457.50	490-1910-2-ND	1,000	439.20	GRM43DR71H155KA01L
			1.5µF	±20%	2.0	490-1911-1-ND	26.84	158.60	457.50	490-1911-2-ND	1,000	439.20	GRM43DR71H155MA01L
			2.2µF	±10%	2.5	490-1912-1-ND	30.97	182.98	—	490-1912-2-ND	500	253.50	GRM43ER71H225KA01L
			2.2µF	±20%	2.5	490-1913-1-ND	28.59	168.94	—	490-1913-2-ND	500	233.91	GRM43ER71H225MA01L
		25	4.7µF	±10%	2.5	490-1914-1-ND	28.07	165.88	—	490-1914-2-ND	500	229.50	GRM43ER71E475KA01L
			4.7µF	±20%	2.5	490-1915-1-ND	30.00	177.26	—	490-1915-2-ND	500	245.50	GRM43ER71E475MA01L
		10	22µF	±10%	2.5	490-1916-1-ND	32.75	193.51	—	490-1916-2-ND	500	268.00	GRM43ER71A226KE01L
	X5R	16	22µF	±10%	2.5	490-1917-1-ND	32.75	193.51	—	490-1917-2-ND	500	268.00	GRM43ER61C226KE01L
		10	47µF	±10%	2.5	490-1918-1-ND	51.71	305.57	—	490-1918-2-ND	500	423.00	GRM43ER61A476KE19L
		6.3	33µF	±10%	2.0	490-1919-1-ND	47.11	278.40	803.06	490-1919-2-ND	1,000	770.94	GRM43DR60J336KE01L
			33µF	±20%	2.0	490-1920-1-ND	47.11	278.40	803.06	490-1920-2-ND	1,000	770.94	GRM43DR60J336ME01L
			47µF	±10%	2.5	490-1921-1-ND	51.71	305.57	—	490-1921-2-ND	500	423.00	GRM43ER60J476KE01L
			47µF	±20%	2.5	490-1922-1-ND	51.71	305.57	—	490-1922-2-ND	500	423.00	GRM43ER60J476ME01L
			100µF	±20%	2.8	490-1923-1-ND	84.78	500.96	—	490-1923-2-ND	500	693.50	GRM43SR60J107ME20L
	Y5V	100	.15µF	+80, -20%	1.8	490-1924-1-ND	13.10	77.42	223.31	490-1924-2-ND	1,000	214.38	GRM43RF52A154ZA01L
		50	1.5µF	+80, -20%	1.8	490-1925-1-ND	61.27	362.05	1044.38	490-1925-2-ND	1,000	1002.60	GRM43RF51H155ZD01L
2220	C0G (NP0)	50	16000pF	±5%	1.35	490-1926-1-ND	77.02	455.13	1312.88	490-1926-2-ND	1,000	1260.36	GRM55N5C1H163JD01L
			20000pF	±5%	1.8	490-1927-1-ND	95.99	567.19	1636.13	490-1927-2-ND	1,000	1570.68	GRM55R5C1H203JD01L
			24000pF	±5%	1.8	490-1928-1-ND	112.18	662.87	1912.13	490-1928-2-ND	1,000	1835.64	GRM55R5C1H243JD01L
			30000pF	±5%	1.8	490-1929-1-ND	123.99	732.68	2113.50	490-1929-2-ND	1,000	2028.96	GRM55R5C1H303JD01L
			36000pF	±5%	1.8	490-1930-1-ND	136.39	805.94	2324.81	490-1930-2-ND	1,000	2231.82	GRM55R5C1H363JD01L
			43000pF	±5%	1.8	490-1931-1-ND	140.38	829.53	2392.88	490-1931-2-ND	1,000	2297.16	GRM55R5C1H433JD01L
	X7R	1,000	0.1µF	±10%	2.0	490-3505-1-ND	28.89	170.69	492.38	490-3505-2-ND	1,000	473.00	GRM55DR73A104KW01L
		630	.15µF	±10%	2.0	490-3519-1-ND	29.21	172.58	497.81	490-3519-2-ND	1,000	478.00	GRM55DR72J154KW01L
			.22µF	±10%	2.0	490-3520-1-ND	29.04	171.60	495.00	490-3520-2-ND	1,000	475.00	GRM55DR72J224KW01L
		250	.33µF	±10%	2.0	490-3546-1-ND	28.25	166.92	481.50	490-3546-2-ND	1,000	462.00	GRM55DR72E334KW01L
			.47µF	±10%	2.0	490-3548-1-ND	28.72	169.72	489.56	490-3548-2-ND	1,000	470.00	GRM55DR72E474KW01L
			1.0µF	±10%	2.0	490-3550-1-ND	29.21	172.58	497.81	490-3550-2-ND	1,000	478.00	GRM55DR72E105KW01L
		100	1.0µF	±10%	2.0	490-1932-1-ND	41.99	248.11	715.69	490-1932-2-ND	1,000	687.00	GRM55DR72A105KA01L
			1.0µF	±20%	2.0	490-1933-1-ND	42.15	249.08	718.50	490-1933-2-ND	1,000	689.76	GRM55DR72A105MA01L
			4.7µF	±10%	2.5	490-1934-1-ND	75.89	448.44	—	490-1934-2-ND	500	621.00	GRM55ER72A475KA01L
		50	1.0µF	±10%	1.8	490-1936-1-ND	46.89	277.10	799.31	490-1936-2-ND	1,000	767.00	GRM55RR71H105KA01L
			1.0µF	±20%	1.8	490-1935-1-ND	46.24	273.26	788.25	490-1935-2-ND	1,000	756.72	GRM55RR71H105MA01L
			1.5µF	±10%	1.8	490-1938-1-ND	59.66	352.56	1017.00	490-1938-2-ND	1,000	976.32	GRM55RR71H155KA01L
			1.5µF	±20%	1.8	490-1937-1-ND	56.74	335.27	967.13	490-1937-2-ND	1,000	928.44	GRM55RR71H155MA01L
			3.3µF	±10%	2.0	490-1939-1-ND	59.66	352.56	1017.00	490-1939-2-ND	1,000	976.32	GRM55DR71H335KA01L
			3.3µF	±20%	2.0	490-1940-1-ND	59.66	352.56	1017.00	490-1940-2-ND	1,000	976.32	GRM55DR71H335MA01L
			4.7µF	±10%	2.5	490-1941-1-ND	57.62	340.47	—	490-1941-2-ND	500	471.50	GRM55ER71H475KA01L
			4.7µF	±20%	2.5	490-1942-1-ND	57.76	341.32	—	490-1942-2-ND	500	472.59	GRM55ER71H475MA01L
		25	10µF	±10%	2.0	490-1943-1-ND	107.80	637.00	1837.50	490-1943-2-ND	1,000	1764.00	GRM55DR71E106KA01L
			10µF	±20%	2.0	490-1944-1-ND	107.80	637.00	1837.50	490-1944-2-ND	1,000	1764.00	GRM55DR71E106MA01L
			15µF	±10%	2.5	490-1945-1-ND	53.82	318.05	—	490-1945-2-ND	500	440.37	GRM55ER71E156KA01L
			15µF	±20%	2.5	490-1946-1-ND	53.82	318.05	—	490-1946-2-ND	500	440.37	GRM55ER71E156MA01L
	X5R	6.3	100µF	±10%	3.2	490-1947-1-ND	116.39	687.77	—	490-1947-2-ND	300	571.50	GRM55FR60J107KA01L
	Y5V	100	.47µF	+80, -20%	1.8	490-1948-1-ND	35.30	208.59	601.69	490-1948-2-ND	1,000	577.62	GRM55RF52A474ZA01L
			.68µF	+80, -20%	1.8	490-1949-1-ND	67.40	398.26	1148.81	490-1949-2-ND	1,000	1102.86	GRM55RF52A684ZD01L
		50	3.3µF	+80, -20%	1.8	490-1950-1-ND	102.70	606.84	1750.50	490-1950-2-ND	1,000	1680.48	GRM55RF51H335ZD01L
			4.7µF	+80, -20%	1.8	490-1951-1-ND	125.57	741.98	2140.31	490-1951-2-ND	1,000	2054.70	GRM55RF51H475ZD01L

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Monolithic Ceramic Capacitors for High Frequency — ERB Series

Features:
- Negligible inductance is achieved by its monolithic structure so the series can be used at frequencies above 2 GHz.
- Nickel barriered termination of ERB series improve solderablitiy and decrease solder leaching
- 0603 and 0805 are designed for both flow and reflow soldering and 1210 are designed for reflow soldering

Applications: High frequency and high-power circuits

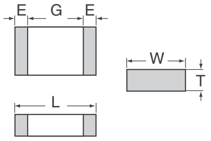

Size Code	Dimensions – mm L	W	E min.	G min.
0603	1.6±0.1	0.8±0.1	0.2	0.5
0805	2.0±0.3	1.25±0.3	0.25	0.7
1210	3.2±0.3	2.5±0.3	0.3	1.0

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm) max.	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
0603	C0G (NP0)	250	0.5pF	±0.25pF	0.9	490-4845-1-ND	3.06	18.07	52.13	490-4845-2-ND	4,000	50.00/M	ERB1885C2ER50CDX1D
			1.0pF	±0.25pF	0.9	490-4846-1-ND	3.06	18.07	52.13	490-4846-2-ND	4,000	50.00/M	ERB1885C2E1R0CDX1D
			1.2pF	±0.1pF	0.9	490-4847-1-ND	6.07	35.88	103.50	490-4847-2-ND	4,000	99.00/M	ERB1885C2E1R2BDX1D
			1.5pF	±0.25pF	0.9	490-4848-1-ND	3.06	18.07	52.13	490-4848-2-ND	4,000	50.00/M	ERB1885C2E1R5CDX1D
			1.8pF	±0.1pF	0.9	490-4849-1-ND	6.07	35.88	103.50	490-4849-2-ND	4,000	99.00/M	ERB1885C2E1R8BDX1D
			2.2pF	±0.1pF	0.9	490-4850-1-ND	6.07	35.88	103.50	490-4850-2-ND	4,000	99.00/M	ERB1885C2E2R2BDX1D
			2.7pF	±0.1pF	0.9	490-4851-1-ND	6.07	35.88	103.50	490-4851-2-ND	4,000	99.00/M	ERB1885C2E2R7BDX1D
			3.3pF	±0.1pF	0.9	490-4852-1-ND	6.07	35.88	103.50	490-4852-2-ND	4,000	99.00/M	ERB1885C2E3R3BDX1D
			3.9pF	±0.1pF	0.9	490-4853-1-ND	6.07	35.88	103.50	490-4853-2-ND	4,000	99.00/M	ERB1885C2E3R9BDX1D
			4.7pF	±0.1pF	0.9	490-4854-1-ND	6.07	35.88	103.50	490-4854-2-ND	4,000	99.00/M	ERB1885C2E4R7BDX1D
			5.6pF	±0.25pF	0.9	490-4855-1-ND	3.06	18.07	52.13	490-4855-2-ND	4,000	50.00/M	ERB1885C2E5R6CDX1D
			6.8pF	±0.25pF	0.9	490-4856-1-ND	3.06	18.07	52.13	490-4856-2-ND	4,000	50.00/M	ERB1885C2E6R8CDX1D
			8.2pF	±0.25pF	0.9	490-4857-1-ND	3.06	18.07	52.13	490-4857-2-ND	4,000	50.00/M	ERB1885C2E8R2CDX5D
			10pF	±5%	0.9	490-4858-1-ND	3.06	18.07	52.13	490-4858-2-ND	4,000	50.00/M	ERB1885C2E100JDX5D
			12pF	±5%	0.9	490-4859-1-ND	2.39	14.11	40.69	490-4859-2-ND	4,000	39.00/M	ERB1885C2E120JDX5D
			15pF	±5%	0.9	490-4860-1-ND	3.64	21.52	62.06	490-4860-2-ND	4,000	60.00/M	ERB1885C2E150JDX5D
			18pF	±5%	0.9	490-4861-1-ND	3.64	21.52	62.06	490-4861-2-ND	4,000	60.00/M	ERB1885C2E180JDX5D
			22pF	±5%	0.9	490-4862-1-ND	3.64	21.52	62.06	490-4862-2-ND	4,000	60.00/M	ERB1885C2E220JDX5D
			27pF	±5%	0.9	490-4863-1-ND	3.64	21.52	62.06	490-4863-2-ND	4,000	60.00/M	ERB1885C2E270JDX5D
			33pF	±5%	0.9	490-4864-1-ND	3.64	21.52	62.06	490-4864-2-ND	4,000	60.00/M	ERB1885C2E330JDX5D
			39pF	±5%	0.9	490-4865-1-ND	3.64	21.52	62.06	490-4865-2-ND	4,000	60.00/M	ERB1885C2E390JDX5D
			47pF	±5%	0.9	490-4866-1-ND	3.64	21.52	62.06	490-4866-2-ND	4,000	60.00/M	ERB1885C2E470JDX5D
			56pF	±5%	0.9	490-4867-1-ND	3.64	21.52	62.06	490-4867-2-ND	4,000	60.00/M	ERB1885C2E560JDX5D
			68pF	±5%	0.9	490-4868-1-ND	3.64	21.52	62.06	490-4868-2-ND	4,000	60.00/M	ERB1885C2E680JDX5D
			82pF	±5%	0.9	490-4869-1-ND	3.64	21.52	62.06	490-4869-2-ND	4,000	60.00/M	ERB1885C2E820JDX5D
			100pF	±5%	0.9	490-4870-1-ND	3.64	21.52	62.06	490-4870-2-ND	4,000	60.00/M	ERB1885C2E101JDX5D
0805	C0G (NP0)	250	0.5pF	±0.25pF	1.35	490-4871-1-ND	6.74	39.85	114.94	490-4871-2-ND	3,000	110.00/M	ERB21B5C2ER50CDX1L
			1.0pF	±0.25pF	1.35	490-4872-1-ND	6.74	39.85	114.94	490-4872-2-ND	3,000	110.00/M	ERB21B5C2E1R0CDX1L
			1.2pF	±0.1pF	1.35	490-4873-1-ND	12.42	73.39	211.69	490-4873-2-ND	3,000	203.00/M	ERB21B5C2E1R2BDX1L
			1.5pF	±0.25pF	1.35	490-4874-1-ND	6.74	39.85	114.94	490-4874-2-ND	3,000	110.00/M	ERB21B5C2E1R5CDX1L
			1.8pF	±0.1pF	1.35	490-4875-1-ND	12.42	73.39	211.69	490-4875-2-ND	3,000	203.00/M	ERB21B5C2E1R8BDX1L
			2.2pF	±0.1pF	1.35	490-4876-1-ND	12.42	73.39	211.69	490-4876-2-ND	3,000	203.00/M	ERB21B5C2E2R2BDX1L
			2.7pF	±0.1pF	1.35	490-4877-1-ND	12.42	73.39	211.69	490-4877-2-ND	3,000	203.00/M	ERB21B5C2E2R7BDX1L
			3.3pF	±0.1pF	1.35	490-4878-1-ND	12.42	73.39	211.69	490-4878-2-ND	3,000	203.00/M	ERB21B5C2E3R3BDX1L
			3.9pF	±0.1pF	1.35	490-4879-1-ND	12.42	73.39	211.69	490-4879-2-ND	3,000	203.00/M	ERB21B5C2E3R9BDX1L
			4.7pF	±0.1pF	1.35	490-4880-1-ND	12.42	73.39	211.69	490-4880-2-ND	3,000	203.00/M	ERB21B5C2E4R7BDX1L
			5.6pF	±0.25pF	1.35	490-4881-1-ND	6.74	39.85	114.94	490-4881-2-ND	3,000	110.00/M	ERB21B5C2E5R6CDX1L
			6.8pF	±0.25pF	1.35	490-4882-1-ND	6.74	39.85	114.94	490-4882-2-ND	3,000	110.00/M	ERB21B5C2E6R8CDX1L
			8.2pF	±0.25pF	1.35	490-4883-1-ND	6.74	39.85	114.94	490-4883-2-ND	3,000	110.00/M	ERB21B5C2E8R2CDX1L
			10pF	±5%	1.35	490-4884-1-ND	6.74	39.85	114.94	490-4884-2-ND	3,000	110.00/M	ERB21B5C2E100JDX1L
			12pF	±5%	1.35	490-4885-1-ND	8.77	51.81	149.44	490-4885-2-ND	3,000	143.00/M	ERB21B5C2E120JDX1L
			15pF	±5%	1.35	490-4886-1-ND	8.77	51.81	149.44	490-4886-2-ND	3,000	143.00/M	ERB21B5C2E150JDX1L
			18pF	±5%	1.35	490-4887-1-ND	8.77	51.81	149.44	490-4887-2-ND	3,000	143.00/M	ERB21B5C2E180JDX1L
			22pF	±5%	1.35	490-4888-1-ND	8.77	51.81	149.44	490-4888-2-ND	3,000	143.00/M	ERB21B5C2E220JDX1L
			27pF	±5%	1.35	490-4889-1-ND	8.77	51.81	149.44	490-4889-2-ND	3,000	143.00/M	ERB21B5C2E270JDX1L
			33pF	±5%	1.35	490-4890-1-ND	8.77	51.81	149.44	490-4890-2-ND	3,000	143.00/M	ERB21B5C2E330JDX1L
			39pF	±5%	1.35	490-4891-1-ND	8.77	51.81	149.44	490-4891-2-ND	3,000	143.00/M	ERB21B5C2E390JDX1L
			47pF	±5%	1.35	490-4892-1-ND	8.77	51.81	149.44	490-4892-2-ND	3,000	143.00/M	ERB21B5C2E470JDX1L
			56pF	±5%	1.35	490-4893-1-ND	13.49	79.69	229.88	490-4893-2-ND	3,000	221.00/M	ERB21B5C2E560JDX1L
			68pF	±5%	1.35	490-4894-1-ND	13.49	79.69	229.88	490-4894-2-ND	3,000	221.00/M	ERB21B5C2E680JDX1L
			82pF	±5%	1.35	490-4895-1-ND	13.49	79.69	229.88	490-4895-2-ND	3,000	221.00/M	ERB21B5C2E820JDX1L
			100pF	±5%	1.35	490-4896-1-ND	13.49	79.69	229.88	490-4896-2-ND	3,000	221.00/M	ERB21B5C2E101JDX1L
		100	120pF	±5%	1.35	490-4897-1-ND	17.04	100.69	290.44	490-4897-2-ND	3,000	279.00/M	ERB21B5C2A121JDX1L
		50	150pF	±5%	1.35	490-4898-1-ND	17.66	104.33	300.94	490-4898-2-ND	3,000	289.00/M	ERB21B5C1H151JDX1L
1210	C0G (NP0)	250	180pF	±5%	1.7	490-4899-1-ND	30.64	181.03	522.19	490-4899-2-ND	3,000	501.00/M	ERB32Q5C2E181JDX1L
			220pF	±5%	1.7	490-4900-1-ND	30.64	181.03	522.19	490-4900-2-ND	2,000	501.00/M	ERB32Q5C2E221JDX1L
		100	270pF	±5%	1.7	490-4901-1-ND	38.56	227.83	657.19	490-4901-2-ND	2,000	631.00/M	ERB32Q5C2A271JDX1L
			330pF	±5%	1.7	490-4902-1-ND	38.56	227.83	657.19	490-4902-2-ND	2,000	631.00/M	ERB32Q5C2A331JDX1L
			390pF	±5%	1.7	490-4903-1-ND	38.56	227.83	657.19	490-4903-2-ND	2,000	631.00/M	ERB32Q5C2A391JDX1L
			470pF	±5%	1.7	490-4904-1-ND	38.56	227.83	657.19	490-4904-2-ND	3,000	631.00/M	ERB32Q5C2A471JDX1L
		50	560pF	±5%	1.7	490-4905-1-ND	38.56	227.83	657.19	490-4905-2-ND	2,000	631.00/M	ERB32Q5C1H561JDX1L
			680pF	±5%	1.7	490-4906-1-ND	38.56	227.83	657.19	490-4906-2-ND	2,000	631.00/M	ERB32Q5C1H681JDX1L
			820pF	±5%	1.7	490-4907-1-ND	38.56	227.83	657.19	490-4907-2-ND	2,000	631.00/M	ERB32Q5C1H821JDX1L
			1000pF	±5%	1.7	490-4908-1-ND	38.56	227.83	657.19	490-4908-2-ND	2,000	631.00/M	ERB32Q5C1H102JDX1L

Monolithic Ceramic Capacitors for Automotive

GCM Series

Features: • Meets AEC-Q200 requirements • Higher resistance of solder-leaching due to the Ni-barriered termination, applicable for reflow soldering and flow soldering *(0603, 0805 and 1206 only)* **Applications:** Automotive electronic equipment power train, safety equipment **Operating Temperature Range:** -55°C ~ 125°C

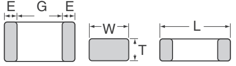

Size Code	Dimensions – mm L	W	E	G min.
0402	1.0	0.5	0.15 ~ 0.3	0.4
0603	1.6	0.8	0.2 ~ 0.5	0.5
0805	2.0	1.25	0.2 ~ 0.7	0.7
1206	3.2	1.6	0.3 ~ 0.8	1.5
1210	3.2	2.5	0.3	1.0

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
0402	C0G	50	1pF	±0.25pF	0.5	490-4757-1-ND	.57	3.38	9.75	490-4757-2-ND	10,000	9.00/M	GCM1555C1H1R0CZ13D
			1.5pF	±0.25pF	0.5	490-4916-1-ND	.57	3.38	9.75	490-4916-2-ND	10,000	9.00/M	GCM1555C1H1R5CZ13D
			2.2pF	±0.25pF	0.5	490-4917-1-ND	.57	3.38	9.75	490-4917-2-ND	10,000	9.00/M	GCM1555C1H2R2CZ13D
			3.3pF	±0.25pF	0.5	490-4918-1-ND	.57	3.38	9.75	490-4918-2-ND	10,000	9.00/M	GCM1555C1H3R3CZ13D
			4.7pF	±0.25pF	0.5	490-4919-1-ND	.57	3.38	9.75	490-4919-2-ND	10,000	9.00/M	GCM1555C1H4R7CZ13D
			6.8pF	±0.5pF	0.5	490-4920-1-ND	.57	3.38	9.75	490-4920-2-ND	10,000	9.00/M	GCM1555C1H6R8DZ13D
			10pF	±5%	0.5	490-4755-1-ND	.57	3.38	9.75	490-4755-2-ND	10,000	9.00/M	GCM1555C1H100JZ13D
			15pF	±5%	0.5	490-4921-1-ND	.57	3.38	9.75	490-4921-2-ND	10,000	9.00/M	GCM1555C1H150JZ13D
			22pF	±5%	0.5	490-4922-1-ND	.57	3.38	9.75	490-4922-2-ND	10,000	9.00/M	GCM1555C1H220JZ13D
			33pF	±5%	0.5	490-4923-1-ND	.57	3.38	9.75	490-4923-2-ND	10,000	9.00/M	GCM1555C1H330JZ13D
			47pF	±5%	0.5	490-4924-1-ND	.57	3.38	9.75	490-4924-2-ND	10,000	9.00/M	GCM1555C1H470JZ13D
			68pF	±5%	0.5	490-4925-1-ND	.62	3.64	10.50	490-4925-2-ND	10,000	10.00/M	GCM1555C1H680JZ13D
			100pF	±5%	0.5	490-4756-1-ND	.62	3.64	10.50	490-4756-2-ND	10,000	10.00/M	GCM1555C1H101JZ13D
			150pF	±5%	0.5	490-4926-1-ND	.40	2.34	6.75	490-4926-2-ND	10,000	6.00/M	GCM1555C1H151JA16D
			220pF	±5%	0.5	490-4927-1-ND	.46	2.73	7.88	490-4927-2-ND	10,000	8.00/M	GCM1555C1H221JA16D
			330pF	±5%	0.5	490-4928-1-ND	.54	3.19	9.19	490-4928-2-ND	10,000	9.00/M	GCM1555C1H331JA16D
			470pF	±5%	0.5	490-4758-1-ND	.54	3.19	11.15	490-4758-2-ND	10,000	9.00/M	GCM1555C1H471JA16D

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Monolithic Ceramic Capacitors for Automotive — GCM Series *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
0402	X7R	16	0.1µF	±10%	0.5	490-4759-1-ND	.41	2.41	6.94	490-4759-2-ND	10,000	7.00/M	GCM155R71C104KA55D
		25	0.047µF	±10%	0.5	490-4760-1-ND	.53	3.12	9.00	490-4760-2-ND	10,000	9.00/M	GCM155R71E473KA55D
		50	220pF	±10%	0.5	490-4912-1-ND	.34	2.02	5.81	490-4912-2-ND	10,000	6.00/M	GCM155R71H221KA37D
			470pF	±10%	0.5	490-4913-1-ND	.34	2.02	5.81	490-4913-2-ND	10,000	6.00/M	GCM155R71H471KA37D
			1000pF	±10%	0.5	490-4761-1-ND	.29	1.69	4.88	490-4761-2-ND	10,000	5.00/M	GCM155R71H102KA37D
			2200pF	±10%	0.5	490-4914-1-ND	.30	1.76	5.06	490-4914-2-ND	10,000	5.00/M	GCM155R71H222KA37D
			4700pF	±10%	0.5	490-4915-1-ND	.29	1.69	4.88	490-4915-2-ND	10,000	5.00/M	GCM155R71H472KA37D
			0.01µF	±10%	0.5	490-4762-1-ND	.29	1.69	4.88	490-4762-2-ND	10,000	5.00/M	GCM155R71H103KA55D
			0.022µF	±10%	0.5	490-4763-1-ND	.46	2.73	7.88	490-4763-2-ND	10,000	8.00/M	GCM155R71H223KA55D
		100	220pF	±10%	0.5	490-4909-1-ND	.37	2.21	6.38	490-4909-2-ND	10,000	6.00/M	GCM155R72A221KA37D
			470pF	±10%	0.5	490-4910-1-ND	.37	2.21	6.38	490-4910-2-ND	10,000	6.00/M	GCM155R72A471KA37D
			1000pF	±10%	0.5	490-4764-1-ND	.37	2.21	6.38	490-4764-2-ND	10,000	6.00/M	GCM155R72A102KA37D
			2200pF	±10%	0.5	490-4911-1-ND	.33	1.95	5.63	490-4911-2-ND	10,000	5.00/M	GCM155R72A222KA37D
			4700pF	±10%	0.5	490-4765-1-ND	.33	1.95	5.63	490-4765-2-ND	10,000	5.00/M	GCM155R72A472KA37D
0603	C0G	50	1pF	±0.25pF	0.8	490-4769-1-ND	1.23	7.28	21.00	490-4769-2-ND	4,000	20.00/M	GCM1885C1H1R0CZ13D
			1.5pF	±0.25pF	0.8	490-4952-1-ND	1.23	7.28	21.00	490-4952-2-ND	4,000	20.00/M	GCM1885C1H1R5CZ13D
			2.2pF	±0.25pF	0.8	490-4953-1-ND	1.23	7.28	21.00	490-4953-2-ND	4,000	20.00/M	GCM1885C1H2R2CZ13D
			3.3pF	±0.25pF	0.8	490-4954-1-ND	1.23	7.28	21.00	490-4954-2-ND	4,000	20.00/M	GCM1885C1H3R3CZ13D
			4.7pF	±0.25pF	0.8	490-4955-1-ND	1.23	7.28	21.00	490-4955-2-ND	4,000	20.00/M	GCM1885C1H4R7CZ13D
			6.8pF	±0.5pF	0.8	490-4956-1-ND	1.23	7.28	21.00	490-4956-2-ND	4,000	20.00/M	GCM1885C1H6R8DZ13D
			10pF	±5%	0.8	490-4766-1-ND	.54	3.19	11.15	490-4766-2-ND	4,000	9.00/M	GCM1885C1H100JA16D
			15pF	±5%	0.8	490-4957-1-ND	.54	3.19	9.19	490-4957-2-ND	4,000	9.00/M	GCM1885C1H150JA16D
			22pF	±5%	0.8	490-4958-1-ND	.57	3.38	9.75	490-4958-2-ND	4,000	9.00/M	GCM1885C1H220JA16D
			33pF	±5%	0.8	490-4959-1-ND	.57	3.38	9.75	490-4959-2-ND	4,000	9.00/M	GCM1885C1H330JA16D
			47pF	±5%	0.8	490-4960-1-ND	.57	3.38	9.75	490-4960-2-ND	4,000	9.00/M	GCM1885C1H470JA16D
			68pF	±5%	0.8	490-4961-1-ND	.57	3.38	9.75	490-4961-2-ND	4,000	9.00/M	GCM1885C1H680JA16D
			100pF	±5%	0.8	490-4767-1-ND	.57	3.38	9.75	490-4767-2-ND	4,000	9.00/M	GCM1885C1H101JA16D
			150pF	±5%	0.8	490-4962-1-ND	.67	3.97	11.44	490-4962-2-ND	4,000	11.00/M	GCM1885C1H151JA16D
			220pF	±5%	0.8	490-4963-1-ND	.73	4.29	12.38	490-4963-2-ND	4,000	12.00/M	GCM1885C1H221JA16D
			330pF	±5%	0.8	490-4964-1-ND	.77	4.55	13.13	490-4964-2-ND	4,000	13.00/M	GCM1885C1H331JA16D
			470pF	±5%	0.8	490-4965-1-ND	.77	4.55	13.13	490-4965-2-ND	4,000	13.00/M	GCM1885C1H471JA16D
			680pF	±5%	0.8	490-4966-1-ND	1.01	5.98	17.25	490-4966-2-ND	4,000	17.00/M	GCM1885C1H681JA16D
			1000pF	±5%	0.8	490-4768-1-ND	.97	5.72	16.50	490-4768-2-ND	4,000	16.00/M	GCM1885C1H102JA16D
			1500pF	±5%	0.8	490-4967-1-ND	1.03	6.11	17.63	490-4967-2-ND	4,000	17.00/M	GCM1885C1H152JA16D
			2200pF	±5%	0.8	490-4968-1-ND	1.10	6.50	18.75	490-4968-2-ND	4,000	18.00/M	GCM1885C1H222JA16D
		100	1pF	±0.25pF	0.8	490-4773-1-ND	2.32	13.72	39.56	490-4773-2-ND	4,000	38.00/M	GCM1885C2A1R0CZ13D
			1.5pF	±0.25pF	0.8	490-4936-1-ND	2.32	13.72	39.56	490-4936-2-ND	4,000	38.00/M	GCM1885C2A1R5CZ13D
			2.2pF	±0.25pF	0.8	490-4937-1-ND	2.32	13.72	39.56	490-4937-2-ND	4,000	38.00/M	GCM1885C2A2R2CZ13D
			3.3pF	±0.25pF	0.8	490-4938-1-ND	2.32	13.72	39.56	490-4938-2-ND	4,000	38.00/M	GCM1885C2A3R3CZ13D
			4.7pF	±0.25pF	0.8	490-4939-1-ND	2.32	13.72	39.56	490-4939-2-ND	4,000	38.00/M	GCM1885C2A4R7CZ13D
			6.8pF	±0.5pF	0.8	490-4940-1-ND	2.32	13.72	39.56	490-4940-2-ND	4,000	38.00/M	GCM1885C2A6R8DZ13D
			10pF	±5%	0.8	490-4770-1-ND	.69	4.10	11.81	490-4770-2-ND	4,000	11.00/M	GCM1885C2A100JA16D
			15pF	±5%	0.8	490-4941-1-ND	.65	3.84	11.06	490-4941-2-ND	4,000	11.00/M	GCM1885C2A150JA16D
			22pF	±5%	0.8	490-4942-1-ND	.65	3.84	11.06	490-4942-2-ND	4,000	11.00/M	GCM1885C2A220JA16D
			33pF	±5%	0.8	490-4943-1-ND	.62	3.64	10.50	490-4943-2-ND	4,000	10.00/M	GCM1885C2A330JA16D
			47pF	±5%	0.8	490-4944-1-ND	.65	3.84	11.06	490-4944-2-ND	4,000	11.00/M	GCM1885C2A470JA16D
			68pF	±5%	0.8	490-4945-1-ND	.65	3.84	11.06	490-4945-2-ND	4,000	11.00/M	GCM1885C2A680JA16D
			100pF	±5%	0.8	490-4771-1-ND	.65	3.84	11.06	490-4771-2-ND	4,000	11.00/M	GCM1885C2A101JA16D
			150pF	±5%	0.8	490-4946-1-ND	.70	4.16	14.56	490-4946-2-ND	4,000	12.00/M	GCM1885C2A151JA16D
			220pF	±5%	0.8	490-4947-1-ND	.92	5.46	15.75	490-4947-2-ND	4,000	15.00/M	GCM1885C2A221JA16D
			330pF	±5%	0.8	490-4948-1-ND	.99	5.85	16.88	490-4948-2-ND	4,000	16.00/M	GCM1885C2A331JA16D
			470pF	±5%	0.8	490-4949-1-ND	1.11	6.57	18.94	490-4949-2-ND	4,000	18.00/M	GCM1885C2A471JA16D
			680pF	±5%	0.8	490-4950-1-ND	1.29	7.61	21.94	490-4950-2-ND	4,000	21.00/M	GCM1885C2A681JA16D
			1000pF	±5%	0.8	490-4772-1-ND	1.42	8.39	24.19	490-4772-2-ND	4,000	23.00/M	GCM1885C2A102JA16D
			1500pF	±5%	0.8	490-4951-1-ND	1.60	9.43	27.19	490-4951-2-ND	4,000	26.00/M	GCM1885C2A152JA16D
	X7R	16	0.1µF	±10%	0.8	490-4774-1-ND	.48	2.86	8.25	490-4774-2-ND	4,000	8.00/M	GCM188R71C104KA37D
			0.47µF	±10%	0.8	490-4775-1-ND	1.32	7.80	22.50	490-4775-2-ND	4,000	22.00/M	GCM188R71C474KA55D
		25	0.22µF	±10%	0.8	490-4935-1-ND	1.23	7.28	21.00	490-4935-2-ND	4,000	20.00/M	GCM188R71E224KA55D
			0.47µF	±10%	0.8	490-4776-1-ND	1.45	8.58	24.75	490-4776-2-ND	4,000	24.00/M	GCM188R71E474KA64D
		50	1000pF	±10%	0.8	490-4777-1-ND	.39	2.28	6.56	490-4777-2-ND	4,000	6.00/M	GCM188R71H102KA37D
			2200pF	±10%	0.8	490-4931-1-ND	.35	2.08	7.28	490-4931-2-ND	4,000	6.00/M	GCM188R71H222KA37D
			4700pF	±10%	0.8	490-4932-1-ND	.35	2.08	7.28	490-4932-2-ND	4,000	6.00/M	GCM188R71H472KA37D
			22000pF	±10%	0.8	490-4933-1-ND	.57	3.38	9.75	490-4933-2-ND	4,000	9.00/M	GCM188R71H223KA37D
			47000pF	±10%	0.8	490-4934-1-ND	.79	4.68	13.50	490-4934-2-ND	4,000	13.00/M	GCM188R71H473KA55D
			0.01µF	±10%	0.8	490-4778-1-ND	.39	2.28	6.56	490-4778-2-ND	4,000	6.00/M	GCM188R71H103KA37D
			0.1µF	±10%	0.8	490-4779-1-ND	.65	3.84	11.06	490-4779-2-ND	4,000	11.00/M	GCM188R71H104KA57D
		100	1000pF	±10%	0.8	490-4780-1-ND	.52	3.06	8.81	490-4780-2-ND	4,000	8.00/M	GCM188R72A102KA37D
			0.01µF	±10%	0.8	490-4781-1-ND	.55	3.25	9.38	490-4781-2-ND	4,000	9.00/M	GCM188R72A103KA37D
			0.022µF	±10%	0.8	490-4782-1-ND	.83	4.88	14.06	490-4782-2-ND	4,000	14.00/M	GCM188R72A223KA37D
			2200pF	±10%	0.8	490-4929-1-ND	.54	3.19	9.19	490-4929-2-ND	4,000	9.00/M	GCM188R72A222KA37D
			4700pF	±10%	0.8	490-4930-1-ND	.73	4.29	12.38	490-4930-2-ND	4,000	12.00/M	GCM188R72A472KA37D
0805	C0G	50	4700pF	±5%	0.6	490-4973-1-ND	2.43	14.37	41.44	490-4973-2-ND	4,000	40.00/M	GCM2165C1H472JA16D
			6800pF	±5%	0.85	490-4974-1-ND	2.86	16.90	48.75	490-4974-2-ND	4,000	47.00/M	GCM2195C1H682JA16D
			0.01µF	±5%	0.85	490-4783-1-ND	4.33	25.61	73.88	490-4783-2-ND	4,000	71.00/M	GCM2195C1H103JA16D
		100	2200pF	±5%	0.6	490-4971-1-ND	2.20	13.00	37.50	490-4971-2-ND	4,000	36.00/M	GCM2165C2A222JA16D
			3300pF	±5%	0.6	490-4972-1-ND	2.70	15.93	45.94	490-4972-2-ND	4,000	44.00/M	GCM2165C2A332JA16D
	U2J	250	100pF	±5%	1.0	490-5024-1-ND ***NEW!***	3.99	23.60	68.06	490-5024-2-ND ***NEW!***	4,000	65.00/M	GCM21A7U2E101JX01D
			150pF	±5%	1.0	490-5025-1-ND ***NEW!***	4.43	26.20	75.56	490-5025-2-ND ***NEW!***	4,000	73.00/M	GCM21A7U2E151JX01D
			220pF	±5%	1.0	490-5026-1-ND ***NEW!***	4.54	26.85	77.44	490-5026-2-ND ***NEW!***	4,000	74.00/M	GCM21A7U2E221JX01D
			330pF	±5%	1.0	490-5027-1-ND ***NEW!***	5.12	30.23	87.19	490-5027-2-ND ***NEW!***	4,000	84.00/M	GCM21A7U2E331JX01D
			470pF	±5%	1.0	490-5028-1-ND ***NEW!***	5.97	35.30	101.81	490-5028-2-ND ***NEW!***	4,000	98.00/M	GCM21A7U2E471JX01D
			680pF	±5%	1.0	490-5029-1-ND ***NEW!***	5.97	35.30	101.81	490-5029-2-ND ***NEW!***	4,000	98.00/M	GCM21A7U2E681JX01D
			1000pF	±5%	1.0	490-5030-1-ND ***NEW!***	5.97	35.30	101.81	490-5030-2-ND ***NEW!***	4,000	98.00/M	GCM21A7U2E102JX01D
			1500pF	±5%	1.0	490-5031-1-ND ***NEW!***	5.97	35.30	101.81	490-5031-2-ND ***NEW!***	4,000	98.00/M	GCM21A7U2E152JX01D
			2200pF	±5%	1.0	490-5032-1-ND ***NEW!***	5.97	35.30	101.81	490-5032-2-ND ***NEW!***	4,000	98.00/M	GCM21A7U2E222JX01D
	X7R	16	2.2µF	±10%	1.25	490-4786-1-ND	3.69	21.78	62.81	490-4786-2-ND	3,000	60.00/M	GCM21BR71C225KA64L
		25	1µF	±10%	1.25	490-4785-1-ND	2.10	12.42	35.81	490-4785-2-ND	3,000	34.00/M	GCM21BR71E105KA56L
			2.2µF	±10%	1.25	490-4787-1-ND	4.57	26.98	77.81	490-4787-2-ND	3,000	75.00/M	GCM21BR71E225KA73L
		50	0.22µF	±10%	1.25	490-4970-1-ND	2.38	14.04	40.50	490-4970-2-ND	3,000	39.00/M	GCM21BR71H224KA37L
			0.47µF	±10%	1.25	490-4788-1-ND	3.69	21.78	62.81	490-4788-2-ND	3,000	60.00/M	GCM21BR71H474KA55L
		100	47000pF	±10%	1.25	490-4969-1-ND	1.88	11.12	32.06	490-4969-2-ND	3,000	31.00/M	GCM21BR72A473KA37L
			0.1µF	±10%	1.25	490-4789-1-ND	1.78	10.53	30.38	490-4789-2-ND	3,000	29.00/M	GCM21BR72A104KA37L
1206	C0G	50	0.022µF	±5%	0.85	490-4790-1-ND	6.48	38.29	110.44	490-4790-2-ND	4,000	106.00/M	GCM3195C1H223JA16D
		100	4700pF	±5%	0.85	490-4976-1-ND	6.93	40.95	118.13	490-4976-2-ND	4,000	113.00/M	GCM3195C2A472JA16D
			5600pF	±5%	0.85	490-4791-1-ND	7.46	44.07	127.13	490-4791-2-ND	4,000	122.00/M	GCM3195C2A562JA16D
			6800pF	±5%	0.85	490-4977-1-ND	7.83	46.28	133.50	490-4977-2-ND	4,000	128.00/M	GCM3195C2A682JA16D
			10000pF	±5%	0.85	490-4978-1-ND	8.80	52.00	150.00	490-4978-2-ND	4,000	144.00/M	GCM3195C2A103JA16D
	U2J	250	3300pF	±5%	1.0	490-5033-1-ND ***NEW!***	6.39	37.77	108.94	490-5033-2-ND ***NEW!***	4,000	105.00/M	GCM31A7U2E332JX01D
			4700pF	±5%	1.0	490-5034-1-ND ***NEW!***	6.39	37.77	108.94	490-5034-2-ND ***NEW!***	4,000	105.00/M	GCM31A7U2E472JX01D
			6800pF	±5%	1.25	490-5035-1-ND ***NEW!***	7.82	46.22	133.31	490-5035-2-ND ***NEW!***	3,000	128.00/M	GCM31B7U2E682JX01L
			10000pF	±5%	1.25	490-5036-1-ND ***NEW!***	7.82	46.22	133.31	490-5036-2-ND ***NEW!***	3,000	128.00/M	GCM31B7U2E103JX01L
		630	10pF	±5%	1.0	490-5037-1-ND ***NEW!***	6.67	39.39	113.63	490-5037-2-ND ***NEW!***	4,000	109.00/M	GCM31A7U2J100JX01D
			15pF	±5%	1.0	490-5038-1-ND ***NEW!***	6.67	39.39	113.63	490-5038-2-ND ***NEW!***	4,000	109.00/M	GCM31A7U2J150JX01D
			22pF	±5%	1.0	490-5039-1-ND ***NEW!***	6.67	39.39	113.63	490-5039-2-ND ***NEW!***	4,000	109.00/M	GCM31A7U2J220JX01D
			33pF	±5%	1.0	490-5040-1-ND ***NEW!***	6.67	39.39	113.63	490-5040-2-ND ***NEW!***	4,000	109.00/M	GCM31A7U2J330JX01D

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Monolithic Ceramic Capacitors for Automotive — GCM Series *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Qty.	Pricing	
1206	U2J	630	47pF	±5%	1.0	490-5041-1-ND ***NEW!***	6.67	39.39	113.63	490-5041-2-ND ***NEW!***	4,000	109.00/M	GCM31A7U2J470JX01D
			68pF	±5%	1.0	490-5042-1-ND ***NEW!***	6.67	39.39	113.63	490-5042-2-ND ***NEW!***	4,000	109.00/M	GCM31A7U2J680JX01D
			100pF	±5%	1.0	490-5043-1-ND ***NEW!***	5.75	34.00	98.06	490-5043-2-ND ***NEW!***	4,000	94.00/M	GCM31A7U2J101JX01D
			150pF	±5%	1.0	490-5044-1-ND ***NEW!***	5.65	33.41	96.38	490-5044-2-ND ***NEW!***	4,000	93.00/M	GCM31A7U2J151JX01D
			220pF	±5%	1.0	490-5045-1-ND ***NEW!***	6.01	35.49	102.38	490-5045-2-ND ***NEW!***	4,000	98.00/M	GCM31A7U2J221JX01D
			330pF	±5%	1.0	490-5046-1-ND ***NEW!***	6.01	35.49	102.38	490-5046-2-ND ***NEW!***	4,000	98.00/M	GCM31A7U2J331JX01D
			470pF	±5%	1.0	490-5047-1-ND ***NEW!***	6.01	35.49	102.38	490-5047-2-ND ***NEW!***	4,000	98.00/M	GCM31A7U2J471JX01D
			680pF	±5%	1.0	490-5048-1-ND ***NEW!***	6.30	37.25	107.44	490-5048-2-ND ***NEW!***	4,000	103.00/M	GCM31A7U2J681JX01D
			1000pF	±5%	1.0	490-5049-1-ND ***NEW!***	6.57	38.81	111.94	490-5049-2-ND ***NEW!***	4,000	107.00/M	GCM31A7U2J102JX01D
	X7R	6.3	22µF	±10%	1.6	490-4843-1-ND	21.00	124.09	357.94	490-4843-2-ND	2,000	344.00/M	GCM31CR70J226KE23L
		10	10µF	±10%	1.6	490-4792-1-ND	7.46	44.07	127.13	490-4792-2-ND	2,000	122.00/M	GCM31CR71A106KA64L
		16	10µF	±10%	1.6	490-4793-1-ND	10.51	62.08	179.06	490-4793-2-ND	2,000	172.00/M	GCM31CR71C106KA64L
		25	4.7µF	±10%	1.6	490-4794-1-ND	6.56	38.74	111.75	490-4794-2-ND	2,000	107.00/M	GCM31CR71E475KA55L
		50	1µF	±10%	1.15	490-4795-1-ND	4.30	25.42	73.31	490-4795-2-ND	3,000	70.00/M	GCM31MR71H105KA55L
			2.2µF	±10%	1.6	490-4796-1-ND	5.34	31.53	90.94	490-4796-2-ND	2,000	87.00/M	GCM31CR71H225KA55L
		100	0.22µF	±10%	1.15	490-4975-1-ND	3.86	22.82	65.81	490-4975-2-ND	3,000	63.00/M	GCM31MR72A224KA37L
1210	U2J	630	1500pF	±5%	1.0	490-5050-1-ND ***NEW!***	15.10	89.25	257.44	490-5050-2-ND ***NEW!***	4,000	247.00/M	GCM32A7U2J152JX01D
			2200pF	±5%	1.0	490-5051-1-ND ***NEW!***	15.10	89.25	257.44	490-5051-2-ND ***NEW!***	4,000	247.00/M	GCM32A7U2J222JX01D
	X7R	6.3	47µF	±10%	2.5	490-4844-1-ND	40.45	239.01	689.44	490-4844-2-ND	1,000	662.00	GCM32ER70J476KE19L
		10	22µF	±10%	2.5	490-4797-1-ND	27.96	165.23	476.63	490-4797-2-ND	1,000	458.00	GCM32ER71A226KE12L
		25	10µF	±10%	2.5	490-4798-1-ND	17.75	104.91	302.63	490-4798-2-ND	1,000	291.00	GCM32ER71E106KA57L
		50	4.7µF	±10%	2.5	490-4799-1-ND	27.81	164.32	474.00	490-4799-2-ND	1,000	455.00	GCM32ER71H475KA55L
		100	2.2µF	±10%	2.0	490-4979-1-ND	33.73	199.29	574.88	490-4979-2-ND	2,000	552.00/M	GCM32DR72A225KA64L

Monolithic Ceramic Chip Capacitors — Low ESL and Low Profile

Murata offers standard and low profile low inductance products. Murata's low ESL capacitors are suitable for high-speed microprocessors and high frequency digital equipment.
Specifications: • Plating: Ni and Matte Sn • **Operating Temperature:** • X7R: -55°C ~ 125°C ±15% • X7S: -55°C ~ 125°C ±22%

LLL Series — Reversed Geometry:
Features: • Low inductance • Suitable for noise reduction for high frequency

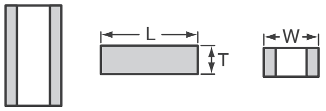

LLA Series — Eight Terminals:
Features: • Low ESL (100pH) • Suitable to decoupling for 1GHz clock speed ICs

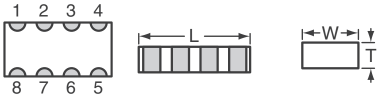

LLM Series — Ten Terminals:
Features: • Low ESL (45pH) • Suitable to decoupling for 2GHz clock speed ICs

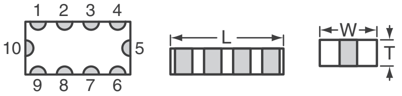

Size Code	Type	WV DC	Capacitance	Tolerance	Dimensions – mm			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
					L	W	T		10	100	500		Qty.	Pricing	
LLL Series — Reversed Geometry															
0204	X6S	6.3	.1µF	±20%	1.0	0.5	0.3	490-4310-1-ND	2.57	15.21	43.88	490-4310-2-ND	10,000	33.35/M	LLL153C80J104ME01E
0306	X7R	6.3	.22µF	±20%	1.6	0.8	0.5	490-4323-1-ND	1.54	9.10	26.25	490-4323-2-ND	4,000	25.00/M	LLL185R70J224MA01L
		10	.1µF	±20%	1.6	0.8	0.5	490-4333-1-ND	2.54	15.02	43.31	490-4333-2-ND	4,000	42.00/M	LLL185R71A104MA11L
			.1µF	±20%	1.6	0.8	0.5	490-4321-1-ND	2.01	11.90	34.31	490-4321-2-ND	4,000	33.00/M	LLL185R71A104MA01L
		16	10000pF	±20%	1.6	0.8	0.5	490-4751-1-ND	3.01	17.81	51.38	490-4751-2-ND	4,000	49.00/M	LLL185R71C103MA11L
			22000pF	±20%	1.6	0.8	0.5	490-4330-1-ND	3.53	20.87	60.19	490-4330-2-ND	4,000	58.00/M	LLL185R71C223MA11L
			47000pF	±20%	1.6	0.8	0.5†	490-4319-1-ND	3.87	22.88	66.00	490-4319-2-ND	4,000	63.00/M	LLL185R71C473MA01L
			47000pF	±20%	1.6	0.8	0.5‡	490-4332-1-ND	3.81	22.49	64.88	490-4332-2-ND	4,000	62.00/M	LLL185R71C473MA11L
		25	10000pF	±20%	1.6	0.8	0.5	490-4328-1-ND	3.81	22.49	64.88	490-4328-2-ND	4,000	62.00/M	LLL185R71E103MA11L
			10000pF	±20%	1.6	0.8	0.5	490-4315-1-ND	3.05	18.01	51.94	490-4315-2-ND	4,000	50.00/M	LLL185R71E103MA01L
			22000pF	±20%	1.6	0.8	0.5	490-4317-1-ND	3.66	21.65	62.44	490-4317-2-ND	4,000	60.00/M	LLL185R71E223MA01L
	X7S	4	.22µF	±20%	1.6	0.8	0.5	490-4335-1-ND	4.88	28.86	83.25	490-4335-2-ND	4,000	80.00/M	LLL185C70G224MA11L
			.47µF	±20%	1.6	0.8	0.5	490-4325-1-ND	4.70	27.76	80.06	490-4325-2-ND	4,000	77.00/M	LLL185C70G474MA01L
			1µF	±20%	1.6	0.8	0.5	490-4327-1-ND	3.43	20.28	58.50	490-4327-2-ND	4,000	56.00/M	LLL185C70G105ME01L
0508	X7R	6.3	.47µF	±20%	2.0	1.25	0.5	490-4368-1-ND	5.67	33.48	96.56	490-4368-2-ND	4,000	93.00/M	LLL215R70J474MA11L
			1µF	±20%	2.0	1.25	0.85	490-4354-1-ND	3.81	22.49	64.88	490-4354-2-ND	3,000	62.00/M	LLL219R70J105MA01L
		10	.22µF	±20%	2.0	1.25	0.5	490-4366-1-ND	5.16	30.49	87.94	490-4366-2-ND	4,000	84.00/M	LLL215R71A224MA11L
			.22µF	±20%	2.0	1.25	0.6	490-4350-1-ND	4.97	29.38	84.75	490-4350-2-ND	4,000	81.00/M	LLL216R71A224MA01L
			.47µF	±20%	2.0	1.25	0.85	490-4352-1-ND	4.88	28.86	83.25	490-4352-2-ND	3,000	80.00/M	LLL219R71A474MA01L
		16	47000pF	±20%	2.0	1.25	0.5	490-4362-1-ND	5.16	30.49	87.94	490-4362-2-ND	4,000	84.00/M	LLL215R71C473MA11L
			.1µF	±20%	2.0	1.25	0.5	490-4364-1-ND	4.08	24.12	69.56	490-4364-2-ND	4,000	67.00/M	LLL215R71C104MA11L
		25	22000pF	±20%	2.0	1.25	0.5	490-4360-1-ND	4.18	24.70	71.25	490-4360-2-ND	4,000	68.00/M	LLL215R71E223MA11L
			47000pF	±20%	2.0	1.25	0.6	490-4344-1-ND	4.97	29.38	84.75	490-4344-2-ND	4,000	81.00/M	LLL216R71E473MA01L
			1µF	±20%	2.0	1.25	0.6	490-4346-1-ND	3.54	20.93	60.38	490-4346-2-ND	4,000	58.00/M	LLL216R71E104MA01L
		50	2200pF	±20%	2.0	1.25	0.5	490-4752-1-ND	4.25	25.10	72.39	490-4752-2-ND	4,000	69.00/M	LLL215R71H222MA11L
			4700pF	±20%	2.0	1.25	0.6	490-4337-1-ND	4.49	26.52	76.50	490-4337-2-ND	4,000	73.00/M	LLL216R71H472MA01L
			10000pF	±20%	2.0	1.25	0.5	490-4358-1-ND	5.98	35.36	102.00	490-4358-2-ND	4,000	98.00/M	LLL215R71H103MA11L
			10000pF	±20%	2.0	1.25	0.6	490-4339-1-ND	2.98	17.62	50.81	490-4339-2-ND	4,000	49.00/M	LLL216R71H103MA01L
			22000pF	±20%	2.0	1.25	0.6	490-4341-1-ND	4.43	26.20	75.56	490-4341-2-ND	4,000	73.00/M	LLL216R71H223MA01L
	X7S	4	1µF	±20%	2.0	1.25	0.5	490-4369-1-ND	5.71	33.74	97.31	490-4369-2-ND	4,000	93.00/M	LLL215C70G105MA11L
			2.2µF	±20%	2.0	1.25	0.85	490-4356-1-ND	7.77	45.89	132.38	490-4356-2-ND	3,000	127.00/M	LLL219C70G225MA01L
0612	X7R	6.3	2.2µF	±20%	3.2	1.6	0.7	490-4754-1-ND	7.77	45.89	132.38	490-4754-2-ND	4,000	127.00/M	LLL317R70J225MA01L
			4.7µF	±20%	3.2	1.6	1.15	490-4392-1-ND	10.11	59.74	172.31	490-4392-2-ND	3,000	165.00/M	LLL31MR70J475MA01L
		10	.47µF	±20%	3.2	1.6	0.5	490-4403-1-ND	3.05	18.01	51.94	490-4403-2-ND	4,000	50.00/M	LLL315R71A474MA11L
			1µF	±20%	3.2	1.6	0.7	490-4389-1-ND	2.90	17.16	49.50	490-4389-2-ND	4,000	48.00/M	LLL317R71A105MA01L
			2.2µF	±20%	3.2	1.6	1.15	490-4391-1-ND	6.67	39.39	113.63	490-4391-2-ND	3,000	109.00/M	LLL31MR71A225MA01L
		16	.22µF	±20%	3.2	1.6	0.5	490-4401-1-ND	6.86	40.56	117.00	490-4401-2-ND	4,000	112.00/M	LLL315R71C224MA11L
			.33µF	±20%	3.2	1.6	0.5	490-4402-1-ND	4.99	29.51	85.13	490-4402-2-ND	4,000	90.00/M	LLL315R71C334MA11L
			.47µF	±20%	3.2	1.6	0.7	490-4385-1-ND	5.50	32.50	93.75	490-4385-2-ND	4,000	90.00/M	LLL317R71C474MA01L
			1µF	±20%	3.2	1.6	1.15	490-4387-1-ND	4.47	26.39	76.13	490-4387-2-ND	3,000	73.00/M	LLL31MR71C105MA01L
		25	47000pF	±20%	3.2	1.6	0.5	490-4753-1-ND	4.54	26.85	77.44	490-4753-2-ND	4,000	74.00/M	LLL315R71E473MA11L
			.1µF	±20%	3.2	1.6	0.5	490-4399-1-ND	4.88	28.86	83.25	490-4399-2-ND	4,000	80.00/M	LLL315R71E104MA11L
			.1µF	±20%	3.2	1.6	0.7	490-4378-1-ND	4.03	23.79	68.63	490-4378-2-ND	4,000	66.00/M	LLL317R71E104MA01L
			.22µF	±20%	3.2	1.6	1.15	490-4380-1-ND	4.82	28.47	82.13	490-4380-2-ND	3,000	79.00/M	LLL31MR71E224MA01L
			.47µF	±20%	3.2	1.6	1.15	490-4382-1-ND	6.23	36.79	106.13	490-4382-2-ND	3,000	102.00/M	LLL31MR71E474MA01L
		50	10000pF	±20%	3.2	1.6	0.5	490-4394-1-ND	5.71	33.74	97.31	490-4394-2-ND	4,000	93.00/M	LLL315R71H103MA11L
			10000pF	±20%	3.2	1.6	0.7	490-4370-1-ND	4.40	26.02	75.06	490-4370-2-ND	4,000	80.00/M	LLL317R71H103MA01L
			22000pF	±20%	3.2	1.6	0.5	490-4396-1-ND	5.08	30.03	86.63	490-4396-2-ND	4,000	83.00/M	LLL315R71H223MA11L
			22000pF	±20%	3.2	1.6	0.7	490-4372-1-ND	5.08	30.03	86.63	490-4372-2-ND	4,000	83.00/M	LLL317R71H223MA01L
			47000pF	±20%	3.2	1.6	0.7	490-4374-1-ND	5.23	30.88	89.06	490-4374-2-ND	4,000	86.00/M	LLL317R71H473MA01L
			.1µF	±20%	3.2	1.6	1.15	490-4376-1-ND	5.56	32.83	94.69	490-4376-2-ND	3,000	91.00/M	LLL31MR71H104MA01L
	X7S	4	10µF	±20%	3.2	1.6	1.25	490-4393-1-ND	9.87	58.31	168.19	490-4393-2-ND	2,000	161.00/M	LLL31BC70G106MA01L
LLA Series — Eight Terminals															
0603	X7S	4	.47µF	±20%	1.6	0.8	0.5	490-4406-1-ND	5.70	33.67	97.13	490-4406-2-ND	4,000	93.00/M	LLA185C70G474MA01L
0805	X7R	6.3	.47µF	±20%	2.0	1.25	0.5	490-4748-1-ND	4.36	25.74	74.25	490-4748-2-ND	4,000	71.00/M	LLA215R70J474MA14L
			1µF	±20%	2.0	1.25	0.85	490-4420-1-ND	4.51	26.65	76.88	490-4420-2-ND	3,000	74.00/M	LLA219R70J105MA01L

† Tolerance ±0.1mm ‡ Tolerance +0 / -0.15mm

(Continued)

Monolithic Ceramic Chip Capacitors

Low ESL and Low Profile *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimensions – mm			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
					L	W	T		10	100	500		Qty.	Pricing	
0805	X7R	10	.22µF	±20%	2.0	1.25	0.5	490-4432-1-ND	4.43	26.20	75.56	490-4432-2-ND	4,000	73.00/M	LLA215R71A224MA14L
			.47µF	±20%	2.0	1.25	0.85	490-4418-1-ND	7.29	43.10	124.31	490-4418-2-ND	3,000	119.00/M	LLA219R71A474MA01L
		16	47000pF	±20%	2.0	1.25	0.5	490-4428-1-ND	7.18	42.45	122.44	490-4428-2-ND	4,000	118.00/M	LLA215R71C473MA14L
			.1µF	±20%	2.0	1.25	0.85	490-4414-1-ND	4.88	28.86	83.25	490-4414-2-ND	3,000	80.00/M	LLA219R71C104MA01L
			.22µF	±20%	2.0	1.25	0.85	490-4416-1-ND	8.57	50.64	146.06	490-4416-2-ND	3,000	140.00/M	LLA219R71C224MA01L
		25	10000pF	±20%	2.0	1.25	0.5	490-4424-1-ND	4.08	24.12	69.56	490-4424-2-ND	4,000	67.00/M	LLA215R71E103MA14L
			10000pF	±20%	2.0	1.25	0.85	490-4408-1-ND	6.39	37.77	108.94	490-4408-2-ND	3,000	105.00/M	LLA219R71E103MA01L
			22000pF	±20%	2.0	1.25	0.5	490-4426-1-ND	5.04	29.77	85.88	490-4426-2-ND	4,000	82.00/M	LLA215R71E223MA14L
			22000pF	±20%	2.0	1.25	0.85	490-4410-1-ND	6.67	39.39	113.63	490-4410-2-ND	3,000	109.00/M	LLA219R71E223MA01L
			47000pF	±20%	2.0	1.25	0.85	490-4412-1-ND	6.67	39.39	113.63	490-4412-2-ND	3,000	109.00/M	LLA219R71E473MA01L
	X7S	4	1µF	±20%	2.0	1.25	0.5	490-4434-1-ND	5.98	35.36	102.00	490-4434-2-ND	4,000	98.00/M	LLA215C70G105MA14L
			2.2µF	±20%	2.0	1.25	0.85	490-4422-1-ND	4.61	27.24	78.56	490-4422-2-ND	3,000	75.00/M	LLA219C70G225MA01L
1206	X7R	4	2.2µF	±20%	3.2	1.6	0.85	490-4446-1-ND	10.43	61.62	177.75	490-4446-2-ND	3,000	171.00/M	LLA319R70G225MA01L
		6.3	1µF	±20%	3.2	1.6	0.5	490-4452-1-ND	7.83	46.28	133.50	490-4452-2-ND	4,000	128.00/M	LLA315R70J105MA14L
			2.2µF	±20%	3.2	1.6	0.5	490-4454-1-ND	11.39	67.28	194.06	490-4454-2-ND	4,000	186.00/M	LLA315R70J225MA14L
		10	.47µF	±20%	3.2	1.6	0.5	490-4450-1-ND	7.90	46.67	134.63	490-4450-2-ND	4,000	129.00/M	LLA315R71A474MA14L
			1µF	±20%	3.2	1.6	0.85	490-4442-1-ND	7.83	46.25	133.43	490-4442-2-ND	3,000	128.00/M	LLA319R71A105MA01L
		16	.1µF	±20%	3.2	1.6	0.5	490-4749-1-ND	5.97	35.25	101.68	490-4749-2-ND	4,000	98.00/M	LLA315R71C104MD12D
			.1µF	±20%	3.2	1.6	0.85	490-4750-1-ND	7.34	43.36	125.06	490-4750-2-ND	3,000	120.00/M	LLA319R71C104MA01L
			.22µF	±20%	3.2	1.6	0.5	490-4448-1-ND	7.77	45.89	132.38	490-4448-2-ND	4,000	127.00/M	LLA315R71C224MA14L
			.22µF	±20%	3.2	1.6	0.85	490-4437-1-ND	8.93	52.78	152.25	490-4437-2-ND	3,000	146.00/M	LLA319R71C224MA01L
			.47µF	±20%	3.2	1.6	0.85	490-4439-1-ND	8.35	49.34	142.31	490-4439-2-ND	3,000	137.00/M	LLA319R71C474MA01L
LLM Series — Ten Terminals															
0805	X7R	6.3	.22µF	±20%	2.0	1.25	0.5	490-4478-1-ND	11.04	65.26	188.25	490-4478-2-ND	4,000	181.00/M	LLM215R70J224MA11L
			.47µF	±20%	2.0	1.25	0.5	490-4480-1-ND	7.08	41.86	120.75	490-4480-2-ND	4,000	116.00/M	LLM215R70J474MA11L
		16	47000pF	±20%	2.0	1.25	0.5	490-4474-1-ND	9.05	53.50	154.31	490-4474-2-ND	4,000	148.00/M	LLM215R71C473MA11L
			.1µF	±20%	2.0	1.25	0.5	490-4476-1-ND	8.94	52.85	152.44	490-4476-2-ND	4,000	146.00/M	LLM215R71C104MA11L
		25	10000pF	±20%	2.0	1.25	0.5	490-4470-1-ND	17.86	105.56	304.50	490-4470-2-ND	4,000	292.00/M	LLM215R71E103MA11L
			22000pF	±20%	2.0	1.25	0.5	490-4472-1-ND	8.18	48.36	139.50	490-4472-2-ND	4,000	134.00/M	LLM215R71E223MA11L
	X7S	4	1µF	±20%	2.0	1.25	0.5	490-4482-1-ND	10.14	59.93	172.88	490-4482-2-ND	4,000	166.00/M	LLM215C70G105MA11L
			2.2µF	±20%	2.0	1.25	0.5	490-4484-1-ND	10.22	60.39	174.19	490-4484-2-ND	4,000	167.00/M	LLM215C70G225ME11L
1206	X7R	6.3	2.2µF	±20%	3.2	1.6	0.5	490-4501-1-ND	10.21	60.32	174.00	490-4501-2-ND	4,000	167.00/M	LLM315R70J225MA11L
		10	.47µF	±20%	3.2	1.6	0.5	490-4499-1-ND	13.63	80.54	232.31	490-4499-2-ND	4,000	223.00/M	LLM315R71A474MA11L
		16	.1µF	±20%	3.2	1.6	0.5	490-4495-1-ND	11.18	66.04	190.50	490-4495-2-ND	4,000	183.00/M	LLM315R71C104MA11L
			.22µF	±20%	3.2	1.6	0.5	490-4497-1-ND	13.41	79.24	228.56	490-4497-2-ND	4,000	219.00/M	LLM315R71C224MA11L

† Tolerance ±0.1mm ‡ Tolerance +0 / -0.15mm

Monolithic Ceramic Chip Capacitors Safety Standard

General Features: • New monolithic structure for small, high capacitance capable of operating at high voltage levels • 125°C guaranteed • Only for reflow soldering

GB Series: Features: • Chip monolithic ceramic capacitor (certified as conforming to safety standards) for AC lines • Compared to lead type capacitors, this new capacitor is greatly downsized and low-profiled to 1/10 or less in volume, and 1/4 or less in height. **Applications:** • Ideal for use as X capacitor for various switching power supplies

GD Series: Features: • Available for equipment based on IEC/EN60950 and UL1950 • The low-profile type (thickness: 1.5mm maximum) is available for use on thinner type equipment. **Applications:** • For use on line filters and couplings for DAA modems without transformers • Line filters for information equipment

GF Series: Features: • Available for equipment based on IEC/EN60950 and UL1950. The GA352/355 types are available for equipment based on IEC/EN60065, UL1492 and UL6500 • The low-profile type (thickness: 1.5mm maximum) is available for use on thinner type equipment **Applications:** • For use on line filters and couplings for DAA modems without transformers • Use on line filters for information equipment • Use as Y capacitor or X capacitor for various switching power supplies (GA352/355 types only)

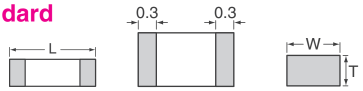

Standard Recognition

Series	Size Code	Safety Standard	Standard No.	Status of Recognition	Switching Power Supplies	Communication Network Devices such as a Modem
GB	2220	VDE, SEV, SEMKO	EN132400	◎	◎	◎
GD	1808/1812	SEMKO	EN132400	◎	—	◎
GF	1808	SEMKO	EN132400	◎	—	◎
	2211/2220	UL	UL1414	◎	◎	◎
	2211/2220	SEMKO	EN132400	◎	◎	◎

Size Code	Type	WV AC	Capacitance	Tolerance	Dimensions – mm			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
					L	W	T		10	100	500		Qty.	Pricing	
GB Series — Class X2															
2220	X7R	250	10000pF	±10%	5.7	5.0	2.0	490-4235-1-ND	18.41	147.30	552.38	490-4235-2-ND	1,000	884.00	GA355DR7GB103KY02L
			15000pF	±10%	5.7	5.0	2.0	490-4236-1-ND	20.61	164.85	618.19	490-4236-2-ND	1,000	989.00	GA355DR7GB153KY02L
			22000pF	±10%	5.7	5.0	2.0	490-4237-1-ND	23.80	190.41	714.04	490-4237-2-ND	1,000	1142.00	GA355DR7GB223KY02L
			33000pF	±10%	5.7	5.0	2.7	490-4238-1-ND	28.62	228.96	—	490-4238-2-ND	500	687.00	GA355XR7GB333KY06L
GD Series — Class Y3															
1808	X7R	250	100pF	±10%	4.5	2.0	1.5	490-3483-1-ND	10.36	61.23	176.63	490-3483-2-ND	2,000	170.00/M	GA342QR7GD101KW01L
			150pF	±10%	4.5	2.0	1.5	490-3484-1-ND	10.36	61.23	176.63	490-3484-2-ND	2,000	170.00/M	GA342QR7GD151KW01L
			220pF	±10%	4.5	2.0	1.5	490-3485-1-ND	10.36	61.23	176.63	490-3485-2-ND	2,000	170.00/M	GA342QR7GD221KW01L
			330pF	±10%	4.5	2.0	1.5	490-3486-1-ND	10.36	61.23	176.63	490-3486-2-ND	2,000	170.00/M	GA342QR7GD331KW01L
			470pF	±10%	4.5	2.0	1.5	490-3487-1-ND	9.93	58.70	169.31	490-3487-2-ND	2,000	163.00/M	GA342QR7GD471KW01L
			680pF	±10%	4.5	2.0	1.5	490-3488-1-ND	9.93	58.70	169.31	490-3488-2-ND	2,000	163.00/M	GA342QR7GD681KW01L
			1000pF	±10%	4.5	2.0	1.5	490-3489-1-ND	9.93	58.70	169.31	490-3489-2-ND	2,000	163.00/M	GA342QR7GD102KW01L
			1500pF	±10%	4.5	2.0	1.5	490-3490-1-ND	10.36	61.23	176.63	490-3490-2-ND	2,000	170.00/M	GA342QR7GD152KW01L
1812	X7R	250	1800pF	±10%	4.5	3.2	1.5	490-3491-1-ND	14.03	82.88	239.06	490-3491-2-ND	1,000	230.00	GA343QR7GD182KW01L
			2200pF	±10%	4.5	3.2	1.5	490-3492-1-ND	14.03	82.88	239.06	490-3492-2-ND	1,000	230.00	GA343QR7GD222KW01L
			4700pF	±10%	4.5	3.2	2.0	490-3493-1-ND	14.03	82.88	239.06	490-3493-2-ND	1,000	230.00	GA343DR7GD472KW01L
GF Series — Class Y2															
1808	SL (JIS)	250	10pF	±5%	4.5	2.0	2.0	490-3459-1-ND	14.58	86.13	248.44	490-3459-2-ND	2,000	239.00/M	GA342D1XGF100JY02L
			12pF	±5%	4.5	2.0	2.0	490-3460-1-ND	15.64	92.43	266.63	490-3460-2-ND	2,000	256.00/M	GA342D1XGF120JY02L
			15pF	±5%	4.5	2.0	2.0	490-3461-1-ND	15.64	92.43	266.63	490-3461-2-ND	2,000	256.00/M	GA342D1XGF150JY02L
			18pF	±5%	4.5	2.0	2.0	490-3462-1-ND	15.64	92.43	266.63	490-3462-2-ND	2,000	256.00/M	GA342D1XGF180JY02L
			22pF	±5%	4.5	2.0	2.0	490-3463-1-ND	15.64	92.43	266.63	490-3463-2-ND	2,000	256.00/M	GA342D1XGF220JY02L
			27pF	±5%	4.5	2.0	2.0	490-3464-1-ND	15.64	92.43	266.63	490-3464-2-ND	2,000	256.00/M	GA342D1XGF270JY02L
			33pF	±5%	4.5	2.0	2.0	490-3465-1-ND	14.58	86.13	248.44	490-3465-2-ND	2,000	239.00/M	GA342D1XGF330JY02L
			39pF	±5%	4.5	2.0	2.0	490-3466-1-ND	15.64	92.43	266.63	490-3466-2-ND	2,000	256.00/M	GA342D1XGF390JY02L
			47pF	±5%	4.5	2.0	2.0	490-3467-1-ND	15.64	92.43	266.63	490-3467-2-ND	2,000	256.00/M	GA342D1XGF470JY02L
			56pF	±5%	4.5	2.0	2.0	490-3468-1-ND	15.92	94.06	271.31	490-3468-2-ND	2,000	260.00/M	GA342D1XGF560JY02L
			68pF	±5%	4.5	2.0	2.0	490-3469-1-ND	15.92	94.06	271.31	490-3469-2-ND	2,000	260.00/M	GA342D1XGF680JY02L
			82pF	±5%	4.5	2.0	2.0	490-3470-1-ND	15.92	94.06	271.31	490-3470-2-ND	2,000	260.00/M	GA342D1XGF820JY02L
	X7R	250	100pF	±10%	4.5	2.0	1.5	490-3471-1-ND	13.30	78.59	226.69	490-3471-2-ND	2,000	218.00/M	GA342QR7GF101KW01L
			150pF	±10%	4.5	2.0	1.5	490-3472-1-ND	13.30	78.59	226.69	490-3472-2-ND	2,000	218.00/M	GA342QR7GF151KW01L
			220pF	±10%	4.5	2.0	2.0	490-3473-1-ND	12.88	76.12	219.56	490-3473-2-ND	2,000	221.00/M	GA342DR7GF221KW02L
			330pF	±10%	4.5	2.0	2.0	490-3474-1-ND	14.70	86.84	250.50	490-3474-2-ND	2,000	240.00/M	GA342DR7GF331KW02L
2211	X7R	250	470pF	±10%	5.7	2.8	1.5	490-3475-1-ND	17.24	101.86	293.81	490-3475-2-ND	1,000	282.00	GA352QR7GF471KW01L
			680pF	±10%	5.7	2.8	1.5	490-3476-1-ND	17.24	101.86	293.81	490-3476-2-ND	1,000	282.00	GA352QR7GF681KW01L
			1000pF	±10%	5.7	2.8	1.5	490-3477-1-ND	17.88	105.63	304.69	490-3477-2-ND	1,000	293.00	GA352QR7GF102KW01L
			1500pF	±10%	5.7	2.8	1.5	490-3478-1-ND	17.88	105.63	304.69	490-3478-2-ND	1,000	293.00	GA352QR7GF152KW01L
2220	X7R	250	1800pF	±10%	5.7	5.0	1.5	490-3479-1-ND	22.98	135.79	391.69	490-3479-2-ND	1,000	376.00	GA355QR7GF182KW01L
			2200pF	±10%	5.7	5.0	1.5	490-3480-1-ND	22.98	135.79	391.69	490-3480-2-ND	1,000	376.00	GA355QR7GF222KW01L
			3300pF	±10%	5.7	5.0	1.5	490-3481-1-ND	22.98	135.79	391.69	490-3481-2-ND	1,000	376.00	GA355QR7GF332KW01L
			4700pF	±10%	5.7	5.0	2.0	490-3482-1-ND	30.80	182.00	525.00	490-3482-2-ND	1,000	504.00	GA355DR7GF472KW01L

Monolithic Ceramic Chip Capacitors
High Frequency GQM Series

Features:
- HiQ and low ESR at VHF, UHF, Microwave
- Feature improvement, low power consumption for mobile telecommunication (Base station, terminal, etc.)

Applications:
- High Frequency circuit (Mobile telecommunication, etc.)

Size Code	Dimensions mm		
	L	W	e
0603	1.6	0.8	0.2 ~ 0.5
0805	2.0	1.25	0.2 ~ 0.7

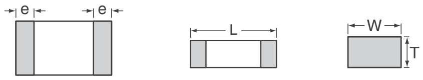

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 4,000	Murata Part No.
							10	100	500			
0603	C0G (NP0)	100	.1pF	±0.1pF	0.8	490-4835-1-ND	13.18	77.87	224.63	490-4835-2-ND	216.00/M	GQM1885C2AR10BB01D
			.5pF	±25pF	0.8	490-3551-1-ND	10.18	60.13	173.44	490-3551-2-ND	167.00/M	GQM1885C2AR50CB01D
			.75pF	±25pF	0.8	490-3552-1-ND	10.18	60.13	173.44	490-3552-2-ND	167.00/M	GQM1885C2AR75CB01D
			1.0pF	±25pF	0.8	490-3553-1-ND	10.18	60.13	173.44	490-3553-2-ND	167.00/M	GQM1885C2A1R0CB01D
			1.2pF	±0.1pF	0.8	490-4836-1-ND	13.18	77.87	224.63	490-4836-2-ND	216.00/M	GQM1885C2A1R2BB01D
			1.5pF	±25pF	0.8	490-3554-1-ND	10.18	60.13	173.44	490-3554-2-ND	167.00/M	GQM1885C2A1R5CB01D
			1.8pF	±0.1pF	0.8	490-4837-1-ND	13.18	77.87	224.63	490-4837-2-ND	216.00/M	GQM1885C2A1R8BB01D
			2.0pF	±25pF	0.8	490-3555-1-ND	10.18	60.13	173.44	490-3555-2-ND	167.00/M	GQM1885C2A2R0CB01D
			2.2pF	±0.1pF	0.8	490-4838-1-ND	13.18	13.18	224.63	490-4838-2-ND	216.00/M	GQM1885C2A2R2BB01D
			2.7pF	±0.1pF	0.8	490-4839-1-ND	13.18	77.87	224.63	490-4839-2-ND	216.00/M	GQM1885C2A2R7BB01D
			3.0pF	±25pF	0.8	490-3556-1-ND	10.18	60.13	173.44	490-3556-2-ND	167.00/M	GQM1885C2A3R0CB01D
			3.3pF	±0.1pF	0.8	490-4840-1-ND	13.18	77.87	224.63	490-4840-2-ND	216.00/M	GQM1885C2A3R3BB01D
			3.9pF	±0.1pF	0.8	490-4841-1-ND	13.18	77.87	224.63	490-4841-2-ND	216.00/M	GQM1885C2A3R9BB01D
			4.0pF	±25pF	0.8	490-3557-1-ND	10.18	60.13	173.44	490-3557-2-ND	167.00/M	GQM1885C2A4R0CB01D
			4.7pF	±0.1pF	0.8	490-4842-1-ND	13.18	77.87	224.63	490-4842-2-ND	216.00/M	GQM1885C2A4R7BB01D
			5.0pF	±25pF	0.8	490-3558-1-ND	10.18	60.13	173.44	490-3558-2-ND	167.00/M	GQM1885C2A5R0CB01D
			5.1pF	±25pF	0.8	490-3559-1-ND	10.18	60.13	173.44	490-3559-2-ND	167.00/M	GQM1885C2A5R1CB01D
			5.6pF	±25pF	0.8	490-3560-1-ND	10.18	60.13	173.44	490-3560-2-ND	167.00/M	GQM1885C2A5R6CB01D
			6.0pF	±25pF	0.8	490-3561-1-ND	10.18	60.13	173.44	490-3561-2-ND	167.00/M	GQM1885C2A6R0CB01D
			6.2pF	±25pF	0.8	490-3562-1-ND	10.18	60.13	173.44	490-3562-2-ND	167.00/M	GQM1885C2A6R2CB01D
			6.8pF	±25pF	0.8	490-3563-1-ND	10.18	60.13	173.44	490-3563-2-ND	167.00/M	GQM1885C2A6R8CB01D
		50	7.0pF	±25pF	0.8	490-3564-1-ND	11.19	66.11	190.69	490-3564-2-ND	183.00/M	GQM1885C1H7R0CB01D
			7.5pF	±25pF	0.8	490-3565-1-ND	11.19	66.11	190.69	490-3565-2-ND	183.00/M	GQM1885C1H7R5CB01D
			8.0pF	±25pF	0.8	490-3566-1-ND	11.19	66.11	190.69	490-3566-2-ND	183.00/M	GQM1885C1H8R0CB01D
			8.2pF	±25pF	0.8	490-3567-1-ND	11.19	66.11	190.69	490-3567-2-ND	183.00/M	GQM1885C1H8R2CB01D
			9.0pF	±25pF	0.8	490-3568-1-ND	11.19	66.11	190.69	490-3568-2-ND	183.00/M	GQM1885C1H9R0CB01D
			9.1pF	±25pF	0.8	490-3569-1-ND	11.19	66.11	190.69	490-3569-2-ND	183.00/M	GQM1885C1H9R1CB01D
			10pF	±5%	0.8	490-3570-1-ND	11.19	66.11	190.69	490-3570-2-ND	183.00/M	GQM1885C1H100JB01D
			12pF	±5%	0.8	490-3571-1-ND	14.54	85.93	247.88	490-3571-2-ND	238.00/M	GQM1885C1H120JB01D
			15pF	±5%	0.8	490-3572-1-ND	14.54	85.93	247.88	490-3572-2-ND	238.00/M	GQM1885C1H150JB01D
			18pF	±5%	0.8	490-3573-1-ND	14.54	85.93	247.88	490-3573-2-ND	238.00/M	GQM1885C1H180JB01D
			20pF	±5%	0.8	490-3574-1-ND	14.54	85.93	247.88	490-3574-2-ND	238.00/M	GQM1885C1H200JB01D
			22pF	±5%	0.8	490-3575-1-ND	14.54	85.93	247.88	490-3575-2-ND	238.00/M	GQM1885C1H220JB01D
			27pF	±5%	0.8	490-3576-1-ND	14.54	85.93	247.88	490-3576-2-ND	238.00/M	GQM1885C1H270JB01D
			33pF	±5%	0.8	490-3577-1-ND	14.54	85.93	247.88	490-3577-2-ND	238.00/M	GQM1885C1H330JB01D
			39pF	±5%	0.8	490-3578-1-ND	14.54	85.93	247.88	490-3578-2-ND	238.00/M	GQM1885C1H390JB01D
			47pF	±5%	0.8	490-3579-1-ND	14.54	85.93	247.88	490-3579-2-ND	238.00/M	GQM1885C1H470JB01D
			56pF	±5%	0.8	490-3580-1-ND	14.54	85.93	247.88	490-3580-2-ND	238.00/M	GQM1885C1H560JB01D
			68pF	±5%	0.8	490-3581-1-ND	14.54	85.93	247.88	490-3581-2-ND	238.00/M	GQM1885C1H680JB01D
			82pF	±5%	0.8	490-3582-1-ND	16.97	100.30	289.31	490-3582-2-ND	278.00/M	GQM1885C1H820JB01D
			100pF	±5%	0.8	490-3583-1-ND	16.97	100.30	289.31	490-3583-2-ND	278.00/M	GQM1885C1H101JB01D
0805	C0G (NP0)	100	.5pF	±25pF	0.85	490-3584-1-ND	13.18	77.87	224.63	490-3584-2-ND	216.00/M	GQM2195C2AR50CB01D
			.75pF	±25pF	0.85	490-3585-1-ND	13.18	77.87	224.63	490-3585-2-ND	216.00/M	GQM2195C2AR75CB01D
			1.0pF	±25pF	0.85	490-3586-1-ND	13.18	77.87	224.63	490-3586-2-ND	216.00/M	GQM2195C2A1R0CB01D
			1.5pF	±25pF	0.85	490-3587-1-ND	13.18	77.87	224.63	490-3587-2-ND	216.00/M	GQM2195C2A1R5CB01D
			2.0pF	±25pF	0.85	490-3588-1-ND	13.18	77.87	224.63	490-3588-2-ND	216.00/M	GQM2195C2A2R0CB01D
			3.0pF	±25pF	0.85	490-3589-1-ND	13.18	77.87	224.63	490-3589-2-ND	216.00/M	GQM2195C2A3R0CB01D
			4.0pF	±25pF	0.85	490-3590-1-ND	13.18	77.87	224.63	490-3590-2-ND	216.00/M	GQM2195C2A4R0CB01D
			5.0pF	±25pF	0.85	490-3591-1-ND	13.18	77.87	224.63	490-3591-2-ND	216.00/M	GQM2195C2A5R0CB01D
			5.1pF	±25pF	0.85	490-3592-1-ND	13.18	77.87	224.63	490-3592-2-ND	216.00/M	GQM2195C2A5R1CB01D
			5.6pF	±25pF	0.85	490-3593-1-ND	13.18	77.87	224.63	490-3593-2-ND	216.00/M	GQM2195C2A5R6CB01D
			6.0pF	±25pF	0.85	490-3594-1-ND	13.18	77.87	224.63	490-3594-2-ND	216.00/M	GQM2195C2A6R0CB01D
			6.2pF	±25pF	0.85	490-3595-1-ND	13.18	77.87	224.63	490-3595-2-ND	216.00/M	GQM2195C2A6R2CB01D
			6.8pF	±25pF	0.85	490-3596-1-ND	13.18	77.87	224.63	490-3596-2-ND	216.00/M	GQM2195C2A6R8CB01D
			7.0pF	±25pF	0.85	490-3597-1-ND	14.54	85.93	247.88	490-3597-2-ND	238.00/M	GQM2195C2A7R0CB01D
			7.5pF	±25pF	0.85	490-3598-1-ND	14.54	85.93	247.88	490-3598-2-ND	238.00/M	GQM2195C2A7R5CB01D
			8.0pF	±25pF	0.85	490-3599-1-ND	14.54	85.93	247.88	490-3599-2-ND	238.00/M	GQM2195C2A8R0CB01D
			8.2pF	±25pF	0.85	490-3600-1-ND	14.54	85.93	247.88	490-3600-2-ND	238.00/M	GQM2195C2A8R2CB01D
			9.0pF	±25pF	0.85	490-3601-1-ND	14.54	85.93	247.88	490-3601-2-ND	238.00/M	GQM2195C2A9R0CB01D
			9.1pF	±25pF	0.85	490-3602-1-ND	14.54	85.93	247.88	490-3602-2-ND	238.00/M	GQM2195C2A9R1CB01D
			10pF	±5%	0.85	490-3603-1-ND	18.96	112.06	323.25	490-3603-2-ND	310.00/M	GQM2195C2A100JB01D
			12pF	±5%	0.85	490-3604-1-ND	18.96	112.06	323.25	490-3604-2-ND	310.00/M	GQM2195C2A120JB01D
			15pF	±5%	0.85	490-3605-1-ND	18.96	112.06	323.25	490-3605-2-ND	310.00/M	GQM2195C2A150JB01D
			18pF	±5%	0.85	490-3606-1-ND	18.96	112.06	323.25	490-3606-2-ND	310.00/M	GQM2195C2A180JB01D
		50	20pF	±5%	0.85	490-3607-1-ND	14.54	85.93	247.88	490-3607-2-ND	238.00/M	GQM2195C1H200JB01D
			22pF	±5%	0.85	490-3608-1-ND	14.54	85.93	247.88	490-3608-2-ND	238.00/M	GQM2195C1H220JB01D
			27pF	±5%	0.85	490-3609-1-ND	14.54	85.93	247.88	490-3609-2-ND	238.00/M	GQM2195C1H270JB01D
			33pF	±5%	0.85	490-3610-1-ND	14.54	85.93	247.88	490-3610-2-ND	238.00/M	GQM2195C1H330JB01D
			39pF	±5%	0.85	490-3611-1-ND	28.35	167.51	483.19	490-3611-2-ND	464.00/M	GQM2195C1H390JB01D
			47pF	±5%	0.85	490-3612-1-ND	28.35	167.51	483.19	490-3612-2-ND	464.00/M	GQM2195C1H470JB01D
			56pF	±5%	0.85	490-3613-1-ND	28.35	167.51	483.19	490-3613-2-ND	464.00/M	GQM2195C1H560JB01D
			68pF	±5%	0.85	490-3614-1-ND	28.35	167.51	483.19	490-3614-2-ND	464.00/M	GQM2195C1H680JB01D
			82pF	±5%	0.85	490-3615-1-ND	28.35	167.51	483.19	490-3615-2-ND	464.00/M	GQM2195C1H820JB01D
			100pF	±5%	0.85	490-3616-1-ND	28.35	167.51	483.19	490-3616-2-ND	464.00/M	GQM2195C1H101JB01D

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TAIYO YUDEN Multilayer Ceramic Chip Capacitors

Features: The use of Nickel (Ni) as material for both the internal and external electrodes improves the solderability and heat resistance characteristics. This almost completely eliminates migration and raises the level of reliability significantly. Low equivalent series resistance (ESR) provides excellent noise absorption characteristics. Compared to tantalum or aluminum electrolytic capacitors, these ceramic capacitors offer a number of excellent features, including: • Higher permissible ripple current values • Smaller case sizes relative to rated voltage • Improved reliability due to higher insulation resistance and breakdown voltage **Operating Temperature Range:** • C0G: -55° ~ 125°C • X7R: -55° ~ 125°C • X7S: -55° ~ 125°C • X5R: -55° ~ 85°C • X5S: -55° ~ 85°C • Y5V: -30° ~ 85°C

Size Code	Dimensions (mm)		
	L	W	e
0201	0.6	0.3	0.15
0306	1.60	0.80	0.35
0402	1.00	0.50	0.25
0508	2.00	1.25	0.30
0603	1.60	0.80	0.35

Size Code	Dimensions (mm)		
	L	W	e
0612	3.20	1.60	0.30
0805	2.00	1.25	0.50
1206	3.20	1.60	0.50
1210	3.20	2.50	0.60
1812	4.50	3.20	0.90

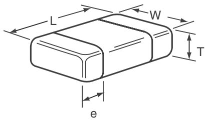

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
							10	100	500		Qty.	Pricing	
0201	C0G (NP0)	25	5.6pF	±0.5pF	0.3	587-1158-1-ND	.55	3.25	9.38	587-1158-2-ND	15,000	9.00/M	TMK063CG5R6DP-F
			6.8pF	±0.5pF	0.3	587-1159-1-ND	.55	3.25	9.38	587-1159-2-ND	15,000	9.00/M	TMK063CG6R8DP-F
			8.2pF	±0.5pF	0.3	587-1160-1-ND	.55	3.25	9.38	587-1160-2-ND	15,000	9.00/M	TMK063CG8R2DP-F
			10pF	±0.5pF	0.3	587-1161-1-ND	.55	3.25	9.38	587-1161-2-ND	15,000	9.00/M	TMK063CG100DP-F
			22pF	±5%	0.3	587-1165-1-ND	.55	3.25	9.38	587-1165-2-ND	15,000	9.00/M	TMK063CG220JP-F
			56pF	±5%	0.3	587-1170-1-ND	.55	3.25	9.38	—	—	—	TMK063CG560JP-F
			82pF	±5%	0.3	587-1172-1-ND	.55	3.25	9.38	587-1172-2-ND	15,000	9.00/M	TMK063CG820JP-F
			100pF	±5%	0.3	587-1173-1-ND	.55	3.25	9.38	587-1173-2-ND	15,000	9.00/M	TMK063CG101JP-F
	X5R	25	220pF	±10%	0.3	587-1175-1-ND	.55	3.25	9.38	587-1175-2-ND	15,000	9.00/M	TMK063BJ221KP-F
			1000pF	±10%	0.3	587-1177-1-ND	.55	3.25	9.38	587-1177-2-ND	15,000	9.00/M	TMK063BJ102KP-F
		16	2200pF	±10%	0.3	587-1178-1-ND	.66	3.90	11.25	587-1178-2-ND	15,000	11.00/M	EMK063BJ222KP-F
			10000pF	±10%	0.3	587-1180-1-ND	.88	5.20	15.00	587-1180-2-ND	15,000	14.00/M	EMK063BJ103KP-F
		10	22000pF	±10%	0.3	587-1181-1-ND	.99	5.85	16.88	587-1181-2-ND	15,000	16.00/M	LMK063BJ223KP-F
		6.3	47000pF	±10%	0.3	587-1182-1-ND	.99	5.85	16.88	587-1182-2-ND	15,000	16.00/M	JMK063BJ473KP-F
			.10µF	±10%	0.3	587-1183-1-ND	1.10	6.50	18.75	587-1183-2-ND	15,000	18.00/M	JMK063BJ104KP-F
			.22µF	±20%	0.3	587-1819-1-ND	2.42	14.30	41.25	587-1819-2-ND	15,000	40.00/M	JMK063BJ224MP-F
0306	X7R	10	1.0µF	±10%	0.8	587-1783-1-ND	2.20	13.00	37.50	587-1783-2-ND	4,000	36.00/M	LWK107B7105KA-T
		6.3	1.0µF	±10%	0.8	587-1186-1-ND	3.85	22.75	65.63	587-1186-2-ND	4,000	63.00/M	JWK107B7105KA-T
0402	C0G (NP0)	50	1.0pF	±0.25%	0.5	587-1187-1-ND▲	.33	1.95	5.63	587-1187-2-ND	10,000	5.00/M	UMK105CG010CW-F
			1.2pF	±0.25%	0.5	587-1188-1-ND▲	.33	1.95	5.63	587-1188-2-ND	10,000	5.00/M	UMK105CG1R2CW-F
			1.5pF	±0.25%	0.5	587-1189-1-ND▲	.33	1.95	5.63	587-1189-2-ND	10,000	5.00/M	UMK105CG1R5CW-F
			2.2pF	±0.25%	0.5	587-1191-1-ND▲	.33	1.95	5.63	587-1191-2-ND	10,000	5.00/M	UMK105CG2R2CW-F
			2.7pF	±0.25%	0.5	587-1192-1-ND▲	.33	1.95	5.63	587-1192-2-ND	10,000	5.00/M	UMK105CG2R7CW-F
			3.3pF	±0.25%	0.5	587-1193-1-ND▲	.33	1.95	5.63	587-1193-2-ND	10,000	5.00/M	UMK105CG3R3CW-F
			3.9pF	±0.25%	0.5	587-1194-1-ND▲	.33	1.95	5.63	587-1194-2-ND	10,000	5.00/M	UMK105CG3R9CW-F
			4.7pF	±0.25%	0.5	587-1195-1-ND▲	.33	1.95	5.63	587-1195-2-ND	10,000	5.00/M	UMK105CG4R7CW-F
			5.6pF	±0.5pF	0.5	587-1196-1-ND▲	.33	1.95	5.63	587-1196-2-ND	10,000	5.00/M	UMK105CG5R6DW-F
			6.8pF	±0.5pF	0.5	587-1197-1-ND▲	.33	1.95	5.63	587-1197-2-ND	10,000	5.00/M	UMK105CG6R8DW-F
			8.2pF	±0.5pF	0.5	587-1946-1-ND▲	.28	1.63	4.69	587-1946-2-ND	10,000	4.00/M	UMK105CG8R2DV-F
			10pF	±0.5pF	0.5	587-1947-1-ND▲	.28	1.63	4.69	587-1947-2-ND	10,000	4.00/M	UMK105CG100DV-F
			12pF	±5%	0.5	587-1948-1-ND▲	.28	1.63	4.69	587-1948-2-ND	10,000	4.00/M	UMK105CG120JV-F
			15pF	±5%	0.5	587-1949-1-ND▲	.28	1.63	4.69	587-1949-2-ND	10,000	4.00/M	UMK105CG150JV-F
			18pF	±5%	0.5	587-1950-1-ND▲	.28	1.63	4.69	587-1950-2-ND	10,000	4.00/M	UMK105CG180JV-F
			22pF	±5%	0.5	587-1203-1-ND▲	.33	1.95	5.63	587-1203-2-ND	10,000	5.00/M	UMK105CG220JV-F
			27pF	±5%	0.5	587-1204-1-ND▲	.33	1.95	5.63	587-1204-2-ND	10,000	5.00/M	UMK105CG270JV-F
			33pF	±5%	0.5	587-1205-1-ND▲	.33	1.95	5.63	587-1205-2-ND	10,000	5.00/M	UMK105CG330JV-F
			39pF	±5%	0.5	587-1206-1-ND▲	.33	1.95	5.63	587-1206-2-ND	10,000	5.00/M	UMK105CG390JV-F
			47pF	±5%	0.5	587-1207-1-ND▲	.33	1.95	5.63	587-1207-2-ND	10,000	5.00/M	UMK105CG470JV-F
			56pF	±5%	0.5	587-1208-1-ND▲	.33	1.95	5.63	587-1208-2-ND	10,000	5.00/M	UMK105CG560JV-F
			68pF	±5%	0.5	587-1209-1-ND▲	.33	1.95	5.63	587-1209-2-ND	10,000	5.00/M	UMK105CG680JV-F
			82pF	±5%	0.5	587-1210-1-ND▲	.33	1.95	5.63	587-1210-2-ND	10,000	5.00/M	UMK105CG820JV-F
			100pF	±5%	0.5	587-1211-1-ND▲	.40	2.34	6.75	587-1211-2-ND	10,000	6.00/M	UMK105CG101JV-F
			120pF	±5%	0.5	587-1212-1-ND▲	.40	2.34	6.75	587-1212-2-ND	10,000	6.00/M	UMK105CG121JV-F
			150pF	±5%	0.5	587-1213-1-ND▲	.40	2.34	6.75	587-1213-2-ND	10,000	6.00/M	UMK105CG151JV-F
			180pF	±5%	0.5	587-1214-1-ND▲	.40	2.34	6.75	587-1214-2-ND	10,000	6.00/M	UMK105CG181JV-F
			220pF	±5%	0.5	587-1215-1-ND▲	.40	2.34	6.75	587-1215-2-ND	10,000	6.00/M	UMK105CG221JV-F
			270pF	±5%	0.5	587-1216-1-ND▲	.40	2.34	6.75	587-1216-2-ND	10,000	6.00/M	UMK105CG271JV-F
			330pF	±5%	0.5	587-1217-1-ND	.40	2.34	6.75	587-1217-2-ND	10,000	6.00/M	UMK105CG331JV-F
	X7R	50	220pF	±10%	0.5	587-1218-1-ND	.32	1.89	5.44	587-1218-2-ND	10,000	5.00/M	UMK105B7221KV-F
			470pF	±10%	0.5	587-1219-1-ND	.26	1.56	4.50	587-1219-2-ND	10,000	4.00/M	UMK105B7471KV-F
			1000pF	±10%	0.5	587-1220-1-ND	.25	1.50	4.31	587-1220-2-ND	10,000	4.00/M	UMK105B7102KV-F
			2200pF	±10%	0.5	587-1221-1-ND	.26	1.56	4.50	587-1221-2-ND	10,000	4.00/M	UMK105B7222KV-F
		25	4700pF	±10%	0.5	587-1222-1-ND	.28	1.63	4.69	587-1222-2-ND	10,000	5.00/M	TMK105B7472KV-F
			10000pF	±10%	0.5	587-1223-1-ND	.25	1.50	4.31	587-1223-2-ND	10,000	4.00/M	TMK105B7103KV-F
		16	22000pF	±10%	0.5	587-1224-1-ND	.24	1.43	4.13	587-1224-2-ND	10,000	4.00/M	EMK105B7223KV-F
			47000pF	±10%	0.5	587-1225-1-ND	.24	1.43	4.13	587-1225-2-ND	10,000	4.00/M	EMK105B7473KV-F
			.10µF	±10%	0.5	587-1451-1-ND	.40	2.34	6.75	587-1451-2-ND	10,000	6.00/M	EMK105B7104KV-FR
	X5R	35	0.1µF	±10%	0.5	587-1994-1-ND	1.10	6.50	18.75	587-1994-2-ND	10,000	18.00/M	GMK105BJ104KV-F
		25	.10µF	±10%	0.5	587-1456-1-ND	.43	2.54	7.31	587-1456-2-ND	10,000	7.00/M	TMK105BJ104KV-F
		16	.10µF	±10%	0.5	587-1226-1-ND	.40	2.34	6.75	587-1226-2-ND	10,000	6.00/M	EMK105BJ104KV-F
			.22µF	±10%	0.5	587-1452-1-ND	.99	5.85	16.88	587-1452-2-ND	10,000	16.00/M	EMK105BJ224KV-F
		10	.10µF	±10%	0.5	587-1227-1-ND	.33	1.95	5.63	587-1227-2-ND	10,000	5.00/M	LMK105BJ104KV-F
			.22µF	±10%	0.5	587-1228-1-ND	.79	4.68	13.50	587-1228-2-ND	10,000	13.00/M	LMK105BJ224KV-F
			.47µF	±10%	0.5	587-1455-1-ND	1.05	6.18	17.81	587-1455-2-ND	10,000	17.00/M	LMK105BJ474KV-F
			1.0µF	±10%	0.5	587-1454-1-ND	2.15	12.68	36.56	587-1454-2-ND	10,000	35.00/M	LMK105BJ105KV-F
		6.3	.22µF	±10%	0.5	587-1229-1-ND	.77	4.55	13.13	587-1229-2-ND	10,000	13.00/M	JMK105BJ224KV-F
			.47µF	±10%	0.5	587-1230-1-ND	.88	5.20	15.00	587-1230-2-ND	10,000	14.00/M	JMK105BJ474KV-F
			1.0µF	±10%	0.5	587-1231-1-ND	1.21	7.15	20.63	587-1231-2-ND	10,000	20.00/M	JMK105BJ105KV-F
			2.2µF	±20%	0.5	587-1453-1-ND	5.50	32.50	93.75	587-1453-2-ND	10,000	90.00/M	JMK105BJ225MV-F

(Continued)

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Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
							10	100	500		Qty.	Pricing	
0402	X5R	4.0	2.2µF	±20%	0.5	587-1232-1-ND	5.50	32.50	93.75	587-1232-2-ND	10,000	90.00/M	AMK105BJ225MV-F
			4.7µF	±20%	0.5	587-1966-1-ND	6.05	35.75	103.13	587-1966-2-ND	10,000	99.00/M	AMK105BJ475MV-F
	Y5V	50	10000pF	±80% / -20%	0.5	587-1233-1-ND	.33	1.95	5.63	587-1233-2-ND	10,000	5.00/M	UMK105F103ZV-F
		16	.10µF	±80% / -20%	0.5	587-1235-1-ND	.26	1.56	4.50	587-1235-2-ND	10,000	4.00/M	EMK105F104ZV-F
		6.3	1.0µF	±80% / -20%	0.5	587-1236-1-ND	.66	3.90	11.25	587-1236-2-ND	10,000	11.00/M	JMK105F105ZV-F
0508	X5R	6.3	4.7µF	±10%	0.85	587-1237-1-ND	5.50	32.50	93.75	587-1237-2-ND	4,000	90.00/M	JWK212BJ475KD-T
0603	X7R	100	1000pF	±10%	0.8	587-1445-1-ND‡	3.73	22.04	63.56	587-1445-2-ND	4,000	61.00/M	HMK107B7102KA-T
			2200pF	±10%	0.8	587-1447-1-ND‡	3.73	22.04	63.56	587-1447-2-ND	4,000	61.00/M	HMK107B7222KA-T
			4700pF	±10%	0.8	587-1449-1-ND‡	3.73	22.04	63.56	587-1449-2-ND	4,000	61.00/M	HMK107B7472KA-T
			10000pF	±10%	0.8	587-1446-1-ND‡	3.87	22.88	66.00	587-1446-2-ND	4,000	63.00/M	HMK107B7103KA-T
			22000pF	±10%	0.8	587-1448-1-ND‡	3.87	22.88	66.00	587-1448-2-ND	4,000	63.00/M	HMK107B7223KA-T
		50	.10µF	±10%	0.8	587-1243-1-ND	.66	3.90	11.25	587-1243-2-ND	4,000	11.00/M	UMK107B7104KA-T
		25	22000pF	±10%	0.8	587-1238-1-ND	.48	2.86	8.25	587-1238-2-ND	4,000	8.00/M	TMK107B7223KA-T
			.22µF	±10%	0.8	587-1246-1-ND	.83	4.88	14.06	587-1246-2-ND	4,000	14.00/M	TMK107B7224KA-T
		16	47000pF	±10%	0.8	587-1239-1-ND	.55	3.25	9.38	587-1239-2-ND	4,000	9.00/M	EMK107B7473KA-T
			.10µF	±10%	0.8	587-1240-1-ND	.28	1.63	4.69	587-1240-2-ND	4,000	5.00/M	EMK107B7104KA-T
			.22µF	±10%	0.8	587-1249-1-ND	.66	3.90	11.25	587-1249-2-ND	4,000	11.00/M	EMK107B7224KA-T
			.47µF	±10%	0.8	587-1250-1-ND	.77	4.55	13.13	587-1250-2-ND	4,000	13.00/M	EMK107B7474KA-T
			1.0µF	±10%	0.8	587-1241-1-ND◊	.88	5.20	15.00	587-1241-2-ND	4,000	14.00/M	EMK107B7105KA-TR
		10	1.0µF	±10%	0.8	587-1242-1-ND◊	.99	5.85	16.88	587-1242-2-ND	4,000	16.00/M	LMK107B7105KA-T
			.47µF	±10%	0.8	587-1252-1-ND	.77	4.55	13.13	587-1252-2-ND	4,000	13.00/M	LMK107B7474KA-T
	X5R	35	1.0µF	±10%	0.8	587-1437-1-ND◊	2.00	11.83	34.13	587-1437-2-ND	4,000	33.00/M	GMK107BJ105KA-T
		25	.10µF	±10%	0.8	587-1245-1-ND	.33	1.95	5.63	587-1245-2-ND	4,000	5.00/M	TMK107BJ104KA-T
			.47µF	±10%	0.8	587-1247-1-ND	1.21	7.15	20.63	587-1247-2-ND	4,000	20.00/M	TMK107BJ474KA-T
			1.0µF	±10%	0.8	587-1248-1-ND◊	1.54	9.10	26.25	587-1248-2-ND	4,000	25.00/M	TMK107BJ105KA-T
		16	1.0µF	±10%	0.8	587-1251-1-ND◊	.88	5.20	15.00	587-1251-2-ND	4,000	14.00/M	EMK107BJ105KA-T
			1.0µF	±10%	0.45	587-1959-1-ND	1.54	9.10	26.25	587-1959-2-ND	4,000	25.00/M	EMK107BJ105KK-T
			2.2µF	±10%	0.8	587-1430-1-ND◊	2.53	14.95	43.13	587-1430-2-ND	4,000	41.00/M	EMK107BJ225KA-T
		10	1.0µF	±10%	0.45	587-1992-1-ND	1.65	9.75	28.13	587-1992-2-ND	4,000	27.00/M	LMK107BJ105KK-T
			2.2µF	±10%	0.8	587-1253-1-ND◊	1.98	11.70	33.75	587-1253-2-ND	4,000	32.00/M	LMK107BJ225KA-T
			4.7µF	±10%	0.8	587-1441-1-ND◊	3.96	23.40	67.50	587-1441-2-ND	4,000	65.00/M	LMK107BJ475KA-T
		6.3	1.0µF	±10%	0.45	587-1993-1-ND	1.76	10.40	30.00	587-1993-2-ND	4,000	29.00/M	JMK107BJ105KK-T
			2.2µF	±10%	0.8	587-1254-1-ND◊	1.65	9.75	28.13	587-1254-2-ND	4,000	27.00/M	JMK107BJ225KA-T
			2.2µF	±10%	0.45	587-1960-1-ND	1.54	9.10	26.25	587-1960-2-ND	4,000	25.00/M	JMK107BJ225KK-T
			4.7µF	±10%	0.8	587-1785-1-ND◊	1.65	9.75	28.13	587-1785-2-ND	4,000	27.00/M	JMK107BJ475KA-T
			4.7µF	±20%	0.8	587-1255-1-ND	1.65	9.75	28.13	587-1255-2-ND	4,000	27.00/M	JMK107BJ475MA-T
			4.7µF	±20%	0.45	587-1944-1-ND	4.62	27.30	78.75	587-1944-2-ND	4,000	76.00/M	JMK107BJ475MK-T
			10µF	±20%	0.8	587-1256-1-ND◊	11.00	65.00	187.50	587-1256-2-ND	4,000	180.00/M	JMK107BJ106MA-T
		4.0	22µF	±20%	0.8	587-2085-1-ND ***NEW!***	23.65	139.75	403.13	587-2085-2-ND ***NEW!***	4,000	387.00/M	AMK107BJ226MA-T
	X5S	50	1.0µF	±10%	0.8	587-1257-1-ND	1.54	9.10	26.25	587-1257-2-ND	4,000	25.00/M	UMK107C5105KA-T
	Y5V	50	.10µF	±80% / -20%	0.8	587-1258-1-ND	.50	2.93	8.44	587-1258-2-ND	4,000	8.00/M	UMK107F104ZA-T
		25	.47µF	±80% / -20%	0.8	587-1259-1-ND	.46	2.73	7.88	587-1259-2-ND	4,000	8.00/M	TMK107F474ZA-T
		16	.22µF	±80% / -20%	0.8	587-1260-1-ND	.44	2.60	7.50	587-1260-2-ND	4,000	7.00/M	EMK107F224ZA-T
			.47µF	±80% / -20%	0.8	587-1261-1-ND	.50	2.93	8.44	587-1261-2-ND	4,000	8.00/M	EMK107F474ZA-T
			1.0µF	±80% / -20%	0.8	587-1262-1-ND	.44	2.60	7.50	587-1262-2-ND	4,000	7.00/M	EMK107F105ZA-T
			2.2µF	±80% / -20%	0.8	587-1263-1-ND	.99	5.85	16.88	587-1263-2-ND	4,000	16.00/M	EMK107F225ZA-T
		10	1.0µF	±80% / -20%	0.8	587-1264-1-ND	.66	3.90	11.25	587-1264-2-ND	4,000	11.00/M	LMK107F105ZA-T
			2.2µF	±80% / -20%	0.8	587-1265-1-ND	.99	5.85	16.88	587-1265-2-ND	4,000	16.00/M	LMK107F225ZA-T
0612	X7R	16	2.2µF	±10%	0.85	587-1784-1-ND	6.05	35.75	103.13	587-1784-2-ND	4,000	99.00/M	EWK316B7225KD-T
		10	2.2µF	±10%	0.85	587-1266-1-ND	6.38	37.70	108.75	587-1266-2-ND	4,000	104.00/M	LWK316B7225KD-T
	X5R	6.3	10µF	±10%	0.85	587-1267-1-ND	11.00	65.00	187.50	587-1267-2-ND	4,000	180.00/M	JWK316BJ106KD-T
0805	X7R	250	1000pF	±10%	0.85	587-1268-1-ND§	4.07	24.05	69.38	587-1268-2-ND	4,000	67.00/M	QMK212B7102KD-T
			10000pF	±10%	1.25	587-1271-1-ND§	4.07	24.05	69.38	587-1271-2-ND	3,000	67.00/M	QMK212B7103KG-T
		100	.10µF	±10%	1.25	587-1276-1-ND‡	4.29	25.35	73.13	587-1276-2-ND	3,000	70.00/M	HMK212B7104KG-T
			.22µF	±10%	1.25	587-2087-1-ND ***NEW!***	3.74	22.10	63.75	587-2087-2-ND ***NEW!***	3,000	61.00/M	HMK212B7224KG-T
		50	22000pF	±10%	0.85	587-1277-1-ND	.94	5.53	15.94	587-1277-2-ND	4,000	15.00/M	UMK212B7223KD-T
			47000pF	±10%	1.25	587-1278-1-ND	.99	5.85	16.88	587-1278-2-ND	3,000	16.00/M	UMK212B7473KG-T
			.10µF	±10%	1.25	587-1279-1-ND	.89	5.27	15.19	587-1279-2-ND	3,000	15.00/M	UMK212B7104KG-T
			.47µF	±10%	1.25	587-1288-1-ND	3.19	18.85	54.38	587-1288-2-ND	3,000	52.00/M	UMK212B7474KG-T
		35	1.0µF	±10%	1.25	587-1438-1-ND◊	4.40	26.00	75.00	587-1438-2-ND	3,000	72.00/M	GMK212B7105KG-T
		25	47000pF	±10%	0.85	587-1280-1-ND	.85	5.01	14.44	587-1280-2-ND	4,000	14.00/M	TMK212B7473KD-T
			1.0µF	±10%	1.25	587-1281-1-ND◊	1.65	9.75	28.13	587-1281-2-ND	3,000	27.00/M	TMK212B7105KG-TR
		16	.47µF	±10%	0.85	587-1282-1-ND	1.10	6.50	18.75	587-1282-2-ND	4,000	18.00/M	EMK212B7474KD-T
			1.0µF	±10%	1.25	587-1283-1-ND◊	1.49	8.78	25.31	587-1283-2-ND	3,000	24.00/M	EMK212B7105KG-T
			2.2µF	±10%	1.25	587-1431-1-ND◊	2.75	16.25	46.88	587-1431-2-ND	3,000	45.00/M	EMK212B7225KG-TR
		10	1.0µF	±10%	0.85	587-1284-1-ND	1.21	7.15	20.63	587-1284-2-ND	4,000	20.00/M	LMK212B7105KD-T
			1.0µF	±10%	1.25	587-1285-1-ND◊	1.32	7.80	22.50	587-1285-2-ND	3,000	22.00/M	LMK212B7105KG-T
			2.2µF	±10%	1.25	587-1286-1-ND◊	1.71	10.08	29.06	587-1286-2-ND	3,000	28.00/M	LMK212B7225KG-T
			4.7µF	±10%	1.25	587-1442-1-ND◊	2.81	16.58	47.81	587-1442-2-ND	3,000	46.00/M	LMK212B7475KG-T
		50	.22µF	±10%	1.25	587-1287-1-ND	1.10	6.50	18.75	587-1287-2-ND	3,000	18.00/M	UMK212B7224KG-T
	X5R	250	22000pF	±10%	1.25	587-1272-1-ND§	4.07	24.05	69.38	587-1272-2-ND	3,000	67.00/M	QMK212B7223KG-T
		35	.47µF	±10%	1.25	587-1289-1-ND	1.65	9.75	28.13	587-1289-2-ND	3,000	27.00/M	GMK212BJ474KG-T
		25	.47µF	±10%	0.85	587-1290-1-ND	1.10	6.50	18.75	587-1290-2-ND	4,000	18.00/M	TMK212BJ474KD-T
			1.0µF	±10%	1.25	587-1291-1-ND◊	1.65	9.75	28.13	587-1291-2-ND	3,000	27.00/M	TMK212BJ105KG-T
			2.2µF	±10%	1.25	587-1292-1-ND◊	3.08	18.20	52.50	587-1292-2-ND	3,000	50.00/M	TMK212BJ225KG-T
			4.7µF	±10%	1.25	587-1782-1-ND	3.96	23.40	67.50	587-1782-2-ND	3,000	65.00/M	TMK212BJ475KG-T
		16	2.2µF	±10%	1.25	587-1293-1-ND◊	2.15	12.68	36.56	587-1293-2-ND	3,000	35.00/M	EMK212BJ225KG-T
			4.7µF	±10%	1.25	587-1294-1-ND◊	3.63	21.45	61.88	587-1294-2-ND	3,000	59.00/M	EMK212BJ475KG-T
			10µF	±10%	1.25	587-1295-1-ND◊	6.60	39.00	112.50	587-1295-2-ND	3,000	108.00/M	EMK212BJ106KG-T
		10	2.2µF	±10%	0.85	587-1296-1-ND	1.76	10.40	30.00	587-1296-2-ND	4,000	29.00/M	LMK212BJ225KD-T
			4.7µF	±10%	0.85	587-1297-1-ND	2.75	16.25	46.88	587-1297-2-ND	4,000	45.00/M	LMK212BJ475KD-T
			4.7µF	±10%	1.25	587-1298-1-ND◊	2.42	14.30	41.25	587-1298-2-ND	3,000	40.00/M	LMK212BJ475KG-T
			10µF	±10%	0.85	587-1299-1-ND	3.63	21.45	61.88	587-1299-2-ND	4,000	59.00/M	LMK212BJ106KD-T
			10µF	±10%	1.25	587-1300-1-ND◊	3.85	22.75	65.63	587-1300-2-ND	3,000	63.00/M	LMK212BJ106KG-T
			22µF	±20%	1.25	587-1958-1-ND	6.00	52.50	225.00	587-1958-2-ND	3,000	270.00/M	LMK212BJ226MG-T

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
							10	100	500		Qty.	Pricing	
0805	X5R	6.3	4.7µF	±10%	0.85	587-1301-1-ND	2.53	14.95	43.13	587-1301-2-ND	4,000	41.00/M	JMK212BJ475KD-T
			4.7µF	±10%	1.25	587-1302-1-ND◊	2.20	13.00	37.50	587-1302-2-ND	3,000	36.00/M	JMK212BJ475KG-T
			10µF	±10%	1.25	587-1303-1-ND◊	6.05	35.75	103.13	587-1303-2-ND	3,000	99.00/M	JMK212BJ106KG-T
			10µF	±10%	0.85	587-1304-1-ND	3.30	19.50	56.25	587-1304-2-ND	4,000	54.00/M	JMK212BJ106KD-T
			22µF	±10%	1.25	587-1468-1-ND	13.20	78.00	225.00	587-1468-2-ND	3,000	216.00/M	JMK212BJ226KG-T
			10µF	±20%	1.25	587-1943-1-ND	6.05	35.75	103.13	587-1943-2-ND	3,000	99.00/M	JMK212BJ106MG-T
			22µF	±20%	1.25	587-1305-1-ND◊	11.00	65.00	187.50	587-1305-2-ND	3,000	180.00/M	JMK212BJ226MG-T
			22µF	±20%	0.85	587-1961-1-ND	15.40	91.00	262.50	587-1961-2-ND	4,000	252.00/M	JMK212BJ226MD-T
			47µF	±20%	1.25	587-1779-1-ND◊	36.30	214.50	618.75	587-1779-2-ND	3,000	594.00/M	JMK212BJ476MG-T
	Y5V	50	.22µF	±80% / -20%	0.85	587-1306-1-ND	.88	5.20	15.00	587-1306-2-ND	4,000	14.00/M	UMK212F224ZD-T
			.47µF	±80% / -20%	1.25	587-1307-1-ND	1.32	7.80	22.50	587-1307-2-ND	3,000	22.00/M	UMK212F474ZG-T
			1.0µF	±80% / -20%	1.25	587-1308-1-ND	.88	5.20	15.00	587-1308-2-ND	3,000	14.00/M	UMK212F105ZG-T
		16	2.2µF	±80% / -20%	1.25	587-1309-1-ND	1.32	7.80	22.50	587-1309-2-ND	3,000	22.00/M	EMK212F225ZG-T
		10	4.7µF	±80% / -20%	1.25	587-1311-1-ND	1.43	8.45	24.38	587-1311-2-ND	3,000	23.00/M	LMK212F475ZG-T
			10µF	±80% / -20%	1.25	587-1312-1-ND	2.75	16.25	46.88	587-1312-2-ND	3,000	45.00/M	LMK212F106ZG-T
		6.3	4.7µF	±80% / -20%	0.85	587-1313-1-ND	1.65	9.75	28.13	587-1313-2-ND	4,000	27.00/M	JMK212F475ZD-T
			10µF	±80% / -20%	1.25	587-1314-1-ND	1.98	11.70	33.75	587-1314-2-ND	3,000	32.00/M	JMK212F106ZG-T
1206	X7R	630	1000pF	±10%	1.15	587-1315-1-ND§	5.97	35.30	101.81	587-1315-2-ND	3,000	98.00/M	SMK316B7102KF-T
			2200pF	±10%	1.15	587-1316-1-ND§	5.97	35.30	101.81	587-1316-2-ND	3,000	98.00/M	SMK316B7222KF-T
			10000pF	±10%	1.15	587-1318-1-ND§	5.97	35.30	101.81	587-1318-2-ND	3,000	98.00/M	SMK316B7103KF-T
		100	.10µF	±10%	1.6	587-1322-1-ND‡	6.27	37.05	106.88	587-1322-2-ND	2,000	103.00/M	HMK316B7104KL-T
			.22µF	±10%	1.6	587-1323-1-ND‡	7.04	41.60	120.00	587-1323-2-ND	2,000	115.00/M	HMK316B7224KL-T
			.47µF	±10%	1.6	587-1450-1-ND‡	8.25	48.75	140.63	587-1450-2-ND	2,000	135.00/M	HMK316B7474KL-T
			1.0µF	±10%	1.6	587-1777-1-ND‡	8.25	48.75	140.63	587-1777-2-ND	2,000	135.00/M	HMK316B7105KL-T
		50	.22µF	±10%	1.6	587-1324-1-ND	3.08	18.20	52.50	587-1324-2-ND	2,000	50.00/M	UMK316B7224KL-T
			.47µF	±10%	1.6	587-1325-1-ND	3.08	18.20	52.50	587-1325-2-ND	2,000	50.00/M	UMK316B7474KL-T
		35	1.0µF	±10%	1.6	587-1326-1-ND★	3.52	20.80	60.00	587-1326-2-ND	2,000	58.00/M	GMK316B7105KL-T
		25	.22µF	±10%	1.15	587-1327-1-ND	2.20	13.00	37.50	587-1327-2-ND	3,000	36.00/M	TMK316B7224KF-T
			1.0µF	±10%	1.6	587-1328-1-ND	3.44	20.35	58.69	587-1328-2-ND	2,000	56.00/M	TMK316B7105KL-T
			2.2µF	±10%	1.6	587-1329-1-ND★	3.60	21.26	61.31	587-1329-2-ND	2,000	59.00/M	TMK316B7225KL-T
			4.7µF	±10%	1.6	587-1443-1-ND	15.95	94.25	271.88	587-1443-2-ND	2,000	261.00/M	TMK316B7475KL-T
		16	1.0µF	±10%	1.15	587-1945-1-ND	2.31	13.65	39.38	587-1945-2-ND	3,000	38.00/M	EMK316B7105KF-T
			2.2µF	±10%	1.6	587-1330-1-ND	3.52	20.80	60.00	587-1330-2-ND	2,000	58.00/M	EMK316B7225KL-T
			4.7µF	±10%	1.6	587-1331-1-ND	2.73	16.12	46.50	587-1331-2-ND	2,000	45.00/M	EMK316B7475KL-TR
		10	4.7µF	±10%	1.6	587-1332-1-ND	3.63	21.45	61.88	587-1332-2-ND	2,000	59.00/M	LMK316B7475KL-T
			10µF	±10%	1.6	587-1333-1-ND★	3.85	22.75	65.63	587-1333-2-ND	2,000	63.00/M	LMK316B7106KL-TR
		6.3	10µF	±10%	1.6	587-1346-1-ND	4.40	26.00	75.00	587-1346-2-ND	2,000	72.00/M	JMK316B7106KL-T
			10µF	±20%	1.6	587-1942-1-ND	4.40	26.00	75.00	587-1942-2-ND	2,000	72.00/M	JMK316B7106ML-T
			22µF	±20%	1.6	587-1334-1-ND	14.30	84.50	243.75	587-1334-2-ND	2,000	234.00/M	JMK316B7226ML-TR
		630	22000pF	±10%	1.6	587-1335-1-ND§	6.71	39.65	114.38	587-1335-2-ND	2,000	110.00/M	SMK316B7223KL-T
	X5R	250	.10µF	±10%	1.6	587-1320-1-ND§	6.71	39.65	114.38	587-1320-2-ND	2,000	110.00/M	QMK316B7104KL-T
		50	4.7µF	±10%	1.6	587-1962-1-ND	6.93	40.95	118.13	587-1962-2-ND	2,000	113.00/M	UMK316BJ475KL-T
		25	1µF	±10%	0.85	587-1434-1-ND	3.04	17.94	51.75	587-1434-2-ND	4,000	50.00/M	TMK316BJ105KD-T
			4.7µF	±10%	1.6	587-1336-1-ND★	5.61	33.15	95.63	587-1336-2-ND	2,000	92.00/M	TMK316BJ475KL-T
			10µF	±10%	1.6	587-1337-1-ND★	6.05	35.75	103.13	587-1337-2-ND	2,000	99.00/M	TMK316BJ106KL-T
		16	4.7µF	±10%	1.6	587-1338-1-ND★	3.63	21.45	61.88	587-1338-2-ND	2,000	59.00/M	EMK316BJ475KL-T
			10µF	±10%	1.6	587-1339-1-ND★	4.85	28.67	82.69	587-1339-2-ND	2,000	79.00/M	EMK316BJ106KL-T
			22µF	±20%	1.6	587-1433-1-ND★	28.60	169.00	487.50	587-1433-2-ND	2,000	468.00/M	EMK316BJ226ML-T
		10	4.7µF	±10%	0.85	587-1340-1-ND	3.41	20.15	58.13	587-1340-2-ND	4,000	56.00/M	LMK316BJ475KD-T
			10µF	±10%	0.85	587-1341-1-ND	4.40	26.00	75.00	587-1341-2-ND	4,000	72.00/M	LMK316BJ106KD-T
			10µF	±10%	1.6	587-1342-1-ND	3.85	22.75	65.63	587-1342-2-ND	2,000	63.00/M	LMK316BJ106KL-T
			22µF	±20%	1.6	587-1343-1-ND★	13.20	78.00	225.00	587-1343-2-ND	2,000	216.00/M	LMK316BJ226ML-T
			47µF	±20%	1.6	587-1780-1-ND	30.80	182.00	525.00	587-1780-2-ND	2,000	504.00/M	LMK316BJ476ML-T
		6.3	10µF	±10%	1.15	587-1344-1-ND	4.00	23.66	68.25	587-1344-2-ND	3,000	66.00/M	JMK316BJ106KF-T
			10µF	±10%	0.85	587-1345-1-ND	4.51	26.65	76.88	587-1345-2-ND	4,000	74.00/M	JMK316BJ106KD-T
			22µF	±10%	1.6	587-1467-1-ND	14.30	84.50	243.75	587-1467-2-ND	2,000	234.00/M	JMK316BJ226KL-T
			22µF	±20%	1.6	587-1347-1-ND★	14.30	84.50	243.75	587-1347-2-ND	2,000	234.00/M	JMK316BJ226ML-T
			47µF	±20%	1.6	587-1348-1-ND★	27.50	162.50	468.75	587-1348-2-ND	2,000	450.00/M	JMK316BJ476ML-T
			100µF	±20%	1.6	587-1963-1-ND	22.00	192.50	825.00	587-1963-2-ND	2,000	990.00/M	JMK316BJ107ML-T
		4.0	100µF	±20%	1.6	587-1349-1-ND	60.50	357.50	1031.25	587-1349-2-ND	2,000	990.00/M	AMK316BJ107ML-T
	X5S	25	10µF	±10%	1.6	587-1350-1-ND	7.59	44.85	129.38	587-1350-2-ND	2,000	124.00/M	TMK316C106KL-T
	Y5V	50	2.2µF	±80% / -20%	1.25	587-1351-1-ND	3.30	19.50	56.25	587-1351-2-ND	3,000	54.00/M	UMK316F225ZG-T
		35	10µF	±80% / -20%	1.6	587-1352-1-ND	3.52	20.80	60.00	587-1352-2-ND	2,000	58.00/M	GMK316F106ZL-T
		25	10µF	±80% / -20%	1.6	587-1353-1-ND	2.53	14.95	43.13	587-1353-2-ND	2,000	41.00/M	TMK316F106ZL-T
		16	10µF	±80% / -20%	1.6	587-1354-1-ND	2.53	14.95	43.13	587-1354-2-ND	2,000	41.00/M	EMK316F106ZL-T
		10	10µF	±80% / -20%	1.15	587-1355-1-ND	2.42	14.30	41.25	587-1355-2-ND	3,000	40.00/M	LMK316F106ZF-T
			22µF	±80% / -20%	1.6	587-1356-1-ND	7.15	42.25	121.88	587-1356-2-ND	2,000	117.00/M	LMK316F226ZL-T
		6.3	10µF	±80% / -20%	0.85	587-1357-1-ND	2.53	14.95	43.13	587-1357-2-ND	4,000	41.00/M	JMK316F106ZD-T
1210	X7R	630	22000pF	±10%	1.9	587-1358-1-ND§	10.12	59.80	172.50	587-1358-2-ND	2,000	166.00/M	SMK325B7223KN-T
		250	.10µF	±10%	1.9	587-1360-1-ND§	10.67	63.05	181.88	587-1360-2-ND	2,000	175.00/M	QMK325B7104KN-T
		100	.22µF	±10%	1.9	587-1363-1-ND‡	12.10	71.50	206.25	587-1363-2-ND	2,000	198.00/M	HMK325B7224KN-T
			.47µF	±10%	1.9	587-1364-1-ND‡	12.10	71.50	206.25	587-1364-2-ND	2,000	198.00/M	HMK325B7474KN-T
			1.0µF	±10%	1.9	587-1365-1-ND‡	12.65	74.75	215.63	587-1365-2-ND	2,000	207.00/M	HMK325B7105KN-T
			2.2µF	±10%	1.9	587-1778-1-ND‡	13.64	80.60	232.50	587-1778-2-ND	2,000	223.00/M	HMK325B7225KN-T
		50	1.0µF	±10%	1.5	587-1366-1-ND★	5.50	32.50	93.75	587-1366-2-ND	2,000	90.00/M	UMK325B7105KH-T
		25	1.0µF	±10%	0.85	587-1367-1-ND	4.29	25.35	73.13	587-1367-2-ND	2,000	70.00/M	TMK325B7105KD-T
			2.2µF	±10%	1.5	587-1368-1-ND★	5.28	31.20	90.00	587-1368-2-ND	2,000	86.00/M	TMK325B7225KH-T
			4.7µF	±10%	1.9	587-1373-1-ND★	6.60	39.00	112.50	587-1373-2-ND	2,000	108.00/M	TMK325B7475KN-T
			10µF	±20%	2.5	587-1369-1-ND	16.50	97.50	—	587-1369-2-ND	500	135.00	TMK325B7106MM-TR
		16	4.7µF	±10%	1.9	587-1392-1-ND	6.82	40.30	116.25	587-1392-2-ND	2,000	112.00/M	EMK325B7475KN-T
		10	10µF	±10%	1.9	587-1370-1-ND	9.90	58.50	168.75	587-1370-2-ND	2,000	162.00/M	LMK325B7106KN-T
			10µF	±20%	1.9	587-1469-1-ND	9.90	58.50	168.75	587-1469-2-ND	2,000	162.00/M	LMK325B7106MN-T
		630	47000pF	±10%	1.9	587-1371-1-ND§	10.12	59.80	172.50	587-1371-2-ND	2,000	166.00/M	SMK325B7473KN-T
	X7S	50	10µF	±20%	2.5	587-1818-1-ND	16.50	97.50	—	587-1818-2-ND	500	135.00	UMK325B7106MM-T
	X5R	250	.22µF	±10%	1.9	587-1361-1-ND§	11.33	66.95	193.13	587-1361-2-ND	2,000	185.00/M	QMK325B7224KN-T
		50	4.7µF	±20%	2.5	587-1964-1-ND	7.20	63.00	—	587-1964-2-ND	500	162.00	UMK325BJ475MM-T

(Continued)

TAIYO YUDEN Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
							10	100	500		Qty.	Pricing	
1210	X5R	35	2.2µF	±10%	1.9	587-1372-1-ND★	6.05	35.75	103.13	587-1372-2-ND	2,000	99.00/M	GMK325BJ225KN-T
			4.7µF	±20%	1.9	587-1781-1-ND	4.62	27.30	78.75	587-1781-2-ND	2,000	108.00/M	GMK325BJ475MN-T
			10µF	±10%	1.9	587-1439-1-ND★	6.05	91.65	264.38	587-1439-2-ND	2,000	254.00/M	GMK325BJ106KN-T
		25	10µF	±10%	0.85	587-1444-1-ND	13.75	81.25	234.38	587-1444-2-ND	2,000	225.00/M	TMK325BJ106KD-T
			10µF	±20%	2.5	587-1374-1-ND★	16.50	97.50	—	587-1374-2-ND	500	135.00	TMK325BJ106MM-T
			10µF	±20%	1.9	587-1375-1-ND	9.90	58.50	168.75	587-1375-2-ND	2,000	162.00/M	TMK325BJ106MN-T
			22µF	±20%	2.5	587-2086-1-ND ***NEW!***	16.28	96.20	—	587-2086-2-ND ***NEW!***	500	133.00	TMK325BJ226MM-T
		16	10µF	±10%	1.9	587-1376-1-ND	9.90	58.50	168.75	587-1376-2-ND	2,000	162.00/M	EMK325BJ106KN-T
			10µF	±10%	0.85	587-1377-1-ND	8.80	52.00	150.00	587-1377-2-ND	2,000	144.00/M	EMK325BJ106KD-T
			10µF	±20%	1.9	587-1470-1-ND	9.90	58.50	168.75	587-1470-2-ND	2,000	162.00/M	EMK325BJ106MN-T
			22µF	±20%	2.5	587-1378-1-ND★	19.80	117.00	—	587-1378-2-ND	500	162.00	EMK325BJ226MM-T
			47µF	±20%	2.5	587-1436-1-ND★	39.60	234.00	—	587-1436-2-ND	500	324.00	EMK325BJ476MM-T
		10	4.7µF	±10%	0.85	587-1379-1-ND	5.50	32.50	93.75	587-1379-2-ND	2,000	90.00/M	LMK325BJ475KD-T
			10µF	±20%	0.85	587-1380-1-ND	7.70	45.50	131.25	587-1380-2-ND	2,000	126.00/M	LMK325BJ106MD-T
			22µF	±20%	2.5	587-1381-1-ND★	17.60	104.00	—	587-1381-2-ND	500	144.00	LMK325BJ226MM-T
			22µF	±20%	2.0 Max.	587-1382-1-ND	19.80	117.00	337.50	587-1382-2-ND	2,000	324.00/M	LMK325BJ226MY-T
			47µF	±20%	2.5	587-1383-1-ND★	34.10	201.50	—	587-1383-2-ND	500	279.00	LMK325BJ476MM-T
			100µF	±20%	2.5	587-1965-1-ND	26.00	227.50	—	587-1965-2-ND	500	585.00	LMK325BJ107MM-T
		6.3	22µF	±10%	2.5	587-1471-1-ND	18.70	110.50	—	587-1471-2-ND	500	153.00	JMK325BJ226KM-T
			22µF	±20%	2.5	587-1384-1-ND	18.70	110.50	—	587-1384-2-ND	500	153.00	JMK325BJ226MM-T
			22µF	±20%	2.0 Max.	587-1385-1-ND	13.20	78.00	225.00	587-1385-2-ND	2,000	216.00/M	JMK325BJ226MY-T
			47µF	±20%	1.9	587-1440-1-ND	38.50	227.50	656.25	587-1440-2-ND	2,000	630.00/M	JMK325BJ476MN-T
			47µF	±20%	2.5	587-1386-1-ND★	35.20	208.00	—	587-1386-2-ND	500	288.00	JMK325BJ476MM-T
			100µF	±20%	2.5	587-1387-1-ND	66.00	390.00	—	587-1387-2-ND	500	540.00	JMK325BJ107MM-T
			100µF	±20%	2.0 Max.	587-1388-1-ND★	55.00	325.00	—	587-1388-2-ND	2,000	900.00/M	JMK325BJ107MY-T
	Y5V	50	4.7µF	±80% / -20%	1.5	587-1389-1-ND	6.60	39.00	112.50	587-1389-2-ND	2,000	108.00/M	UMK325F475ZH-T
		35	10µF	±80% / -20%	1.5	587-1391-1-ND	7.15	42.25	121.88	587-1391-2-ND	2,000	117.00/M	GMK325F106ZH-T
		25	10µF	±80% / -20%	1.5	587-1393-1-ND	5.28	31.20	90.00	587-1393-2-ND	2,000	86.00/M	TMK325F106ZH-T
		16	22µF	±80% / -20%	1.9	587-1390-1-ND	6.60	39.00	112.50	587-1390-2-ND	2,000	108.00/M	EMK325F226ZN-T
		10	22µF	±80% / -20%	1.9	587-1395-1-ND	8.25	48.75	140.63	587-1395-2-ND	2,000	135.00/M	LMK325F226ZN-T
		6.3	47µF	±80% / -20%	1.9	587-1396-1-ND	16.50	97.50	281.25	587-1396-2-ND	2,000	270.00/M	JMK325F476ZN-T
			100µF	±80% / -20%	2.5	587-1397-1-ND	39.60	234.00	—	587-1397-2-ND	500	324.00	JMK325F107ZM-T
1812	X7R	630	47000pF	±10%	2.5	587-1398-1-ND§	20.30	119.93	—	587-1398-2-ND	500	166.00	SMK432B7473KM-T
		250	.10µF	±10%	2.5	587-1399-1-ND§	23.65	139.75	—	587-1399-2-ND	500	193.50	QMK432B7104KM-T
			.22µF	±10%	2.5	587-1400-1-ND§	23.65	139.75	—	587-1400-2-ND	500	193.50	QMK432B7224KM-T
		100	.47µF	±10%	2.5	587-1402-1-ND‡	21.34	126.10	—	587-1402-2-ND	500	174.50	HMK432B7474KM-T
			1.0µF	±10%	2.5	587-1403-1-ND‡	22.55	133.25	—	587-1403-2-ND	500	166.00	HMK432B7105KM-T
	X5R	630	.10µF	±10%	2.5	587-1405-1-ND§	22.55	133.25	—	587-1405-2-ND	500	184.50	SMK432B7104KM-T
		250	.47µF	±10%	2.5	587-1401-1-ND§	25.30	149.50	—	587-1401-2-ND	500	207.00	QMK432B7474KM-T
		100	2.2µF	±10%	2.5	587-1404-1-ND‡	23.98	141.70	—	587-1404-2-ND	500	196.00	HMK432B7225KM-T
		25	10µF	±20%	2.5	587-1406-1-ND	26.40	156.00	—	587-1406-2-ND	500	216.00	TMK432BJ106MM-T
		16	22µF	±20%	2.5	587-1407-1-ND	22.00	130.00	—	587-1407-2-ND	500	180.00	EMK432BJ226MM-T
			22µF	±10%	2.5	587-1472-1-ND	22.00	130.00	—	587-1472-2-ND	500	180.00	EMK432BJ226KM-T
		10	22µF	±20%	2.5	587-1408-1-ND	20.90	123.50	—	587-1408-2-ND	500	171.00	LMK432BJ226MM-T
		6.3	47µF	±20%	2.5	587-1409-1-ND	88.00	520.00	—	587-1409-2-ND	500	720.00	JMK432BJ476MM-T
		50	10µF	±20%	2.5	587-1411-1-ND	19.80	117.00	—	587-1411-2-ND	500	162.00	UMK432C106MM-T
	X5S	25	22µF	±20%	2.5	587-1412-1-ND	40.15	237.25	—	—	—	—	TMK432C226MM-T
			47µF	±20%	2.5	587-1413-1-ND	63.80	377.00	—	587-1413-2-ND	500	522.00	TMK432C476MM-T
	Y5V	10	47µF	±80% / -20%	2.5	587-1414-1-ND	33.00	195.00	—	587-1414-2-ND	500	270.00	LMK432F476ZM-T

Kits

‡ **587-1794-ND** (TAIYO-CAP100V-V1)	10 each of values denoted – 0603, 0805, and 1206 case sizes, 5 each of values denoted – 1210 and 1812 case sizes (180 total pieces)	**$67.50**
§ **587-1795-ND** (TAIYO-HIVOLTCAP-V1)	5 each of values denoted (110 total pieces)	**$67.50**
◊ **587-1797-ND** (TAIYO-HICVCAP-V2)	10 each of values denoted (290 total pieces)	**$67.50**
★ **587-1798-ND** (TAIYO-HICVCAP-V3)	10 each of values denoted (230 total pieces)	**$67.50**
▲ **587-1951-ND** (TAIYO-0402NPO-V2)	50 each of values denoted (1,500 total pieces)	**$67.50**

High Frequency Multilayer Ceramic Chip Capacitors

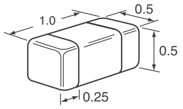

Features: Q-values in the high-frequency range (1 GHz+) are excellent compared to other types of multilayer capacitors. The 1005 (0402) case size is designed for high density mounting and weight reduction in various applications.

Operating Temperature Range: -55 ~ 125°C

Applications:
Suitable for those high-frequency applications in which a capacitor with both a high Q-value and small size is required, such as portable communications and other wireless applications: VCO, TCXO, etc. Adjustment of characteristics in high-frequency circuits.

Size Code	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing	Taiyo Yuden Part No.
						10	100	500		10,000	
0402	C0G (NP0)	50	0.3pF	±0.1pF	587-1000-1-ND	1.65	9.75	28.13	587-1000-2-ND	27.00/M	UVK105CH0R3BW-F
			0.4pF		587-1001-1-ND	1.65	9.75	28.13	587-1001-2-ND	27.00/M	UVK105CH0R4BW-F
			0.5pF		587-1002-1-ND	1.65	9.75	28.13	587-1002-2-ND	27.00/M	UVK105CH0R5BW-F
			0.6pF		587-1003-1-ND	1.65	9.75	28.13	587-1003-2-ND	27.00/M	UVK105CH0R6BW-F
			0.7pF		587-1004-1-ND	1.65	9.75	28.13	587-1004-2-ND	27.00/M	UVK105CH0R7BW-F
			0.8pF	±0.1pF	587-1005-1-ND	1.65	9.75	28.13	587-1005-2-ND	27.00/M	UVK105CH0R8BW-F
			0.9pF		587-1006-1-ND	1.65	9.75	28.13	587-1006-2-ND	27.00/M	UVK105CH0R9BW-F
			1.0pF		587-1007-1-ND	1.65	9.75	28.13	587-1007-2-ND	27.00/M	UVK105CH010BW-F
			1.1pF		587-1008-1-ND	1.65	9.75	28.13	587-1008-2-ND	27.00/M	UVK105CH1R1BW-F
			1.2pF		587-1009-1-ND	1.65	9.75	28.13	587-1009-2-ND	27.00/M	UVK105CH1R2BW-F
			1.3pF	±0.1pF	587-1010-1-ND	1.65	9.75	28.13	587-1010-2-ND	27.00/M	UVK105CH1R3BW-F
			1.5pF		587-1011-1-ND	1.65	9.75	28.13	587-1011-2-ND	27.00/M	UVK105CH1R5BW-F
			1.6pF		587-1012-1-ND	1.65	9.75	28.13	587-1012-2-ND	27.00/M	UVK105CH1R6BW-F
			1.8pF		587-1013-1-ND	1.65	9.75	28.13	587-1013-2-ND	27.00/M	UVK105CH1R8BW-F
			2.0pF		587-1014-1-ND	1.65	9.75	28.13	587-1014-2-ND	27.00/M	UVK105CH020BW-F
			2.2pF	±5%	587-1015-1-ND	1.65	9.75	28.13	587-1015-2-ND	27.00/M	UVK105CH2R2JW-F
			2.4pF		587-1016-1-ND	1.65	9.75	28.13	587-1016-2-ND	27.00/M	UVK105CH2R4JW-F
			2.7pF		587-1017-1-ND	1.65	9.75	28.13	587-1017-2-ND	27.00/M	UVK105CH2R7JW-F
			3.0pF		587-1018-1-ND	1.65	9.75	28.13	587-1018-2-ND	27.00/M	UVK105CH030JW-F
			3.3pF		587-1019-1-ND	1.65	9.75	28.13	587-1019-2-ND	27.00/M	UVK105CH3R3JW-F
			3.6pF	±5%	587-1020-1-ND	1.65	9.75	28.13	587-1020-2-ND	27.00/M	UVK105CH3R6JW-F
			3.9pF		587-1021-1-ND	1.65	9.75	28.13	587-1021-2-ND	27.00/M	UVK105CH3R9JW-F
			4.3pF		587-1022-1-ND	1.65	9.75	28.13	587-1022-2-ND	27.00/M	UVK105CH4R3JW-F
			4.7pF		587-1023-1-ND	1.65	9.75	28.13	587-1023-2-ND	27.00/M	UVK105CH4R7JW-F
			5.1pF		587-1024-1-ND	1.65	9.75	28.13	587-1024-2-ND	27.00/M	UVK105CH5R1JW-F

Kit

587-1799-ND (TAIYO-HIFREQCAP-V1)	50 each of 25 values (1250 total pieces)	**$67.50**

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TAIYO YUDEN

Multilayer Ceramic Chip Capacitor Arrays

Features:
Internal electrode is nickel for increased cost performance and reliability

Applications:
Communication Equipment: Mobile Phones, PHS, Cordless Phones, etc.

Operating Temperature Range:
- X7R: -55° ~ 125°C
- X5R: -55° ~ 85°C

Type (Size Code)	Dimensions (mm) L	W	E1	E2	P
□2K110 (0504)	1.37	1.00 ± 0.08	0.36	0.20	0.64
□4K212 (0805)	2.00	1.25 ± 0.10	0.25	0.25	0.50

2 Elements

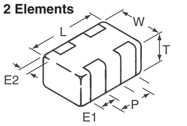

4 Elements

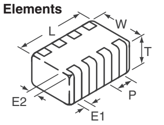

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Taiyo Yuden Part No.
2 Elements													
0504	X7R	25	.10µF	±10%	0.6	587-1034-1-ND	1.76	10.40	30.00	587-1034-2-ND	4,000	29.00/M	T2K110BJ104KB-T
		16	.10µF	±10%	0.6	587-1036-1-ND	1.76	10.40	30.00	587-1036-2-ND	4,000	29.00/M	E2K110B7104KB-T
4 Elements													
0805	X5R	25	.10µF	±10%	0.85	587-1045-1-ND	4.51	26.65	76.88	587-1045-2-ND	4,000	74.00/M	T4K212BJ104KD-T
		16	.10µF	±10%	0.85	587-1046-1-ND	3.74	22.10	63.75	587-1046-2-ND	4,000	61.00/M	E4K212B7104KD-T
		10	.22µF	±10%	0.85	587-1047-1-ND	5.17	30.55	88.13	587-1047-2-ND	4,000	85.00/M	L4K212BJ224KD-T

Super Low Distortion Multilayer Ceramic Capacitors (CFCAP)

Features: Newly developed dielectric material and the use of nickel for internal electrodes provide excellent temperature characteristics with high capacitance, small case size, and low cost. Low distortion and low shock noise make these capacitors well-suited for use in analog or digital mobile devices. Excellent heat-resistance, high break-down voltage, and mechanical strength make these capacitors well suited for replacing film capacitors.

Applications: • Signal line for AV products • Analog signal coupling applications • PLL circuit of mobile phones • Good temperature characteristics for time-constant circuits, oscillation circuits and filters

Specifications: • Operating Temperature: -55°C ~ 125°C

Type (Size Code)	Dimensions (mm) L	W	e
□MK105 (0402)	1.0	0.5 ± 0.05	0.25
□MK107 (0603)	1.6	0.8 ± 0.10	0.35
□MK212 (0805)	2.0	1.25 ± 0.10	0.5
□MK316 (1206)	3.2	1.6 ± 015	0.5

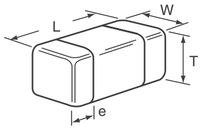

Size Code	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Taiyo Yuden Part No.
0402	50	390pF	±5%	0.5	587-1462-1-ND	4.27	25.22	72.75	587-1462-2-ND	10,000	70.00/M	UMK105SD391JV-F
		390pF	±10%	0.5	587-1461-1-ND	4.00	23.66	68.25	587-1461-2-ND	10,000	66.00/M	UMK105SD391KV-F
		470pF	±5%	0.5	587-1464-1-ND	4.27	25.22	72.75	587-1464-2-ND	10,000	70.00/M	UMK105SD471JV-F
		470pF	±10%	0.5	587-1463-1-ND	3.89	23.01	66.38	587-1463-2-ND	10,000	64.00/M	UMK105SD471KV-F
		560pF	±5%	0.5	587-1466-1-ND	4.27	25.22	72.75	587-1466-2-ND	10,000	70.00/M	UMK105SD561JV-F
		560pF	±10%	0.5	587-1465-1-ND	4.00	23.66	68.25	587-1465-2-ND	10,000	66.00/M	UMK105SD561KV-F
	25	1000pF	±5%	0.5	587-1051-1-ND	4.40	26.00	75.00	587-1051-2-ND	10,000	72.00/M	TMK105SD102JV-F
		1200pF	±5%	0.5	587-1053-1-ND	4.51	26.65	76.88	587-1053-2-ND	10,000	74.00/M	TMK105SD122JV-F
	16	1500pF	±5%	0.5	587-1055-1-ND	4.29	25.35	73.13	587-1055-2-ND	10,000	70.00/M	EMK105SD152JV-F
		1500pF	±10%	0.5	587-1056-1-ND	4.07	24.05	69.38	587-1056-2-ND	10,000	67.00/M	EMK105SD152KV-F
		1800pF	±5%	0.5	587-1057-1-ND	4.29	25.35	73.13	587-1057-2-ND	10,000	70.00/M	EMK105SD182JV-F
		2200pF	±5%	0.5	587-1059-1-ND	4.29	25.35	73.13	587-1059-2-ND	10,000	70.00/M	EMK105SD222JV-F
		2700pF	±5%	0.5	587-1061-1-ND	4.29	25.35	73.13	587-1061-2-ND	10,000	70.00/M	EMK105SD272JV-F
	10	3300pF	±5%	0.5	587-1063-1-ND	4.29	25.35	73.13	587-1063-2-ND	10,000	70.00/M	LMK105SD332JV-F
		3900pF	±5%	0.5	587-1065-1-ND	4.62	27.30	78.75	587-1065-2-ND	10,000	76.00/M	LMK105SD392JV-F
		4700pF	±5%	0.5	587-1067-1-ND	4.73	27.95	80.63	587-1067-2-ND	10,000	77.00/M	LMK105SD472JV-F
		4700pF	±10%	0.5	587-1068-1-ND	4.51	26.65	76.88	587-1068-2-ND	10,000	74.00/M	LMK105SD472KV-F
0603	50	1000pF	±5%	0.8	587-1069-1-ND	4.40	26.00	75.00	587-1069-2-ND	4,000	72.00/M	UMK107SD102JA-T
		1000pF	±10%	0.8	587-1070-1-ND	3.85	22.75	65.63	587-1070-2-ND	4,000	63.00/M	UMK107SD102KA-T
		1200pF	±5%	0.8	587-1071-1-ND	5.50	32.50	93.75	587-1071-2-ND	4,000	90.00/M	UMK107SD122JA-T
		1500pF	±10%	0.8	587-1074-1-ND	5.06	29.90	86.25	587-1074-2-ND	4,000	83.00/M	UMK107SD152KA-T
		2200pF	±5%	0.8	587-1077-1-ND	5.17	30.55	88.13	587-1077-2-ND	4,000	85.00/M	UMK107SD222JA-T
		2200pF	±10%	0.8	587-1078-1-ND	4.62	27.30	78.75	587-1078-2-ND	4,000	76.00/M	UMK107SD222KA-T
		2700pF	±5%	0.8	587-1079-1-ND	5.50	32.50	93.75	587-1079-2-ND	4,000	90.00/M	UMK107SD272JA-T
		3300pF	±5%	0.8	587-1081-1-ND	5.50	32.50	93.75	587-1081-2-ND	4,000	90.00/M	UMK107SD332JA-T
	25	3900pF	±5%	0.8	587-1083-1-ND	4.95	29.25	84.38	587-1083-2-ND	4,000	81.00/M	TMK107SD392JA-T
		4700pF	±5%	0.8	587-1085-1-ND	4.95	29.25	84.38	587-1085-2-ND	4,000	81.00/M	TMK107SD472JA-T
	16	6800pF	±5%	0.8	587-1089-1-ND	5.17	30.55	88.13	587-1089-2-ND	4,000	85.00/M	EMK107SD682JA-T
		8200pF	±5%	0.8	587-1091-1-ND	5.17	30.55	88.13	587-1091-2-ND	4,000	85.00/M	EMK107SD822JA-T
		10000pF	±5%	0.8	587-1093-1-ND	4.40	26.00	75.00	587-1093-2-ND	4,000	72.00/M	EMK107SD103JA-T
		10000pF	±10%	0.8	587-1094-1-ND	3.85	22.75	65.63	587-1094-2-ND	4,000	63.00/M	EMK107SD103KA-T
	10	12000pF	±5%	0.8	587-1095-1-ND	5.61	33.15	95.63	587-1095-2-ND	4,000	92.00/M	LMK107SD123JA-T
		15000pF	±5%	0.8	587-1097-1-ND	5.61	33.15	95.63	587-1097-2-ND	4,000	92.00/M	LMK107SD153JA-T
		18000pF	±5%	0.8	587-1099-1-ND	5.61	33.15	95.63	587-1099-2-ND	4,000	92.00/M	LMK107SD183JA-T
		22000pF	±5%	0.8	587-1101-1-ND	5.61	33.15	95.63	587-1101-2-ND	4,000	92.00/M	LMK107SD223JA-T
		22000pF	±10%	0.8	587-1102-1-ND	4.51	26.65	76.88	587-1102-2-ND	4,000	74.00/M	LMK107SD223KA-T
0805	50	4700pF	±5%	0.85	587-1105-1-ND	5.83	34.45	99.38	587-1105-2-ND	4,000	95.00/M	UMK212SD472JD-T
		10000pF	±5%	0.85	587-1113-1-ND	5.50	32.50	93.75	587-1113-2-ND	4,000	90.00/M	UMK212SD103JD-T
		10000pF	±10%	0.85	587-1114-1-ND	4.95	29.25	84.38	587-1114-2-ND	4,000	81.00/M	UMK212SD103KD-T
	35	18000pF	±5%	1.25	587-1119-1-ND	6.16	36.40	105.00	587-1119-2-ND	3,000	101.00/M	GMK212SD183JG-T
		22000pF	±5%	1.25	587-1121-1-ND	6.16	36.40	105.00	587-1121-2-ND	3,000	101.00/M	GMK212SD223JG-T
		22000pF	±10%	1.25	587-1122-1-ND	5.72	33.80	97.50	587-1122-2-ND	3,000	94.00/M	GMK212SD223KG-T
		27000pF	±5%	1.25	587-1123-1-ND	6.27	37.05	106.88	587-1123-2-ND	3,000	103.00/M	GMK212SD273JG-T
	16	33000pF	±5%	0.85	587-1125-1-ND	6.84	40.43	116.63	587-1125-2-ND	4,000	112.00/M	EMK212SD333JD-T
		33000pF	±10%	0.85	587-1126-1-ND	6.16	36.40	105.00	587-1126-2-ND	4,000	101.00/M	EMK212SD333KD-T
	10	47000pF	±5%	0.85	587-1127-1-ND	6.82	40.30	116.25	587-1127-2-ND	4,000	112.00/M	LMK212SD473JD-T
		68000pF	±5%	1.25	587-1129-1-ND	6.82	40.30	116.25	587-1129-2-ND	3,000	112.00/M	LMK212SD683JG-T
		82000pF	±5%	1.25	587-1131-1-ND	6.82	40.30	116.25	587-1131-2-ND	3,000	112.00/M	LMK212SD823JG-T
		82000pF	±10%	1.25	587-1132-1-ND	6.38	37.70	108.75	587-1132-2-ND	3,000	104.00/M	LMK212SD823KG-T
		.10µF	±5%	1.25	587-1133-1-ND	6.05	35.75	103.13	587-1133-2-ND	3,000	99.00/M	LMK212SD104JG-T
		.10µF	±10%	1.25	587-1134-1-ND	5.50	32.50	93.75	587-1134-2-ND	3,000	90.00/M	LMK212SD104KG-T
1206	25	47000pF	±5%	1.15	587-1139-1-ND	9.57	56.55	163.13	587-1139-2-ND	3,000	157.00/M	TMK316SD473JF-T
		68000pF	±5%	1.15	587-1143-1-ND	9.57	56.55	163.13	587-1143-2-ND	3,000	157.00/M	TMK316SD683JF-T
		.10µF	±5%	1.6	587-1147-1-ND	8.80	52.00	150.00	587-1147-2-ND	2,000	144.00/M	TMK316SD104JL-T
		.10µF	±10%	1.6	587-1148-1-ND	8.25	48.75	140.63	587-1148-2-ND	2,000	135.00/M	TMK316SD104KL-T

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TDK Multilayer Ceramic Chip Capacitors

Features: • High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers • Monolithic structure ensures superior mechanical strength and reliability • High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances • Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes **Applications:** • Cellular phones • Portable/Handheld devices (PDA's, MP3 players, etc) • RF Module (VCO, TCXO, PA, etc) **Operating Temperature:** • C0G: -55°C ~ 125°C • X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C • Y5V: -30°C ~ 85°C • X8R: -55°C ~ 150°C • SL: 20°C ~ 85°C

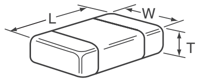

EIA Code	EIAJ Code	Dim. L	(mm) W	EIA Code	EIAJ Code	Dim. L	(mm) W
0201	0603	0.6	0.3	0805	2012	2.0	1.25
0306	0816	0.8	1.6	1206	3216	3.2	1.6
0402	1005	1.0	0.5	1210	3225	3.2	2.5
0508	1220	1.25	2.0	1808	4520	4.5	2.0
0603	1608	1.6	0.8	1812	4532	4.5	3.2
0612	1632	1.6	3.2	2220	5750	5.7	5.0

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
0201	C0G (NP0)	50	0.5pF	±0.1pF	0.3	445-2908-1-ND	.77	4.55	13.13	445-2908-2-ND	15,000	13.00/M	C0603C0G1H0R5B
		50	0.5pF	±0.25pF	0.3	445-2918-1-ND	.51	2.99	8.63	445-2918-2-ND	15,000	8.00/M	C0603C0G1H0R5C
		50	1.0pF	±0.1pF	0.3	445-2909-1-ND	.77	4.55	13.13	445-2909-2-ND	15,000	13.00/M	C0603C0G1H010B
		50	1.0pF	±0.25pF	0.3	445-1760-1-ND	.51	2.99	8.63	445-1760-2-ND	15,000	8.28/M	C0603C0G1H010C
		50	1.2pF	±0.25pF	0.3	445-2919-1-ND	.51	2.99	8.63	445-2919-2-ND	15,000	8.00/M	C0603C0G1H1R2C
		50	1.5pF	±0.1pF	0.3	445-2910-1-ND	.77	4.55	13.13	445-2910-2-ND	15,000	13.00/M	C0603C0G1H1R5B
		50	1.5pF	±0.25pF	0.3	445-1770-1-ND	.51	2.99	8.63	445-1770-2-ND	15,000	8.28/M	C0603C0G1H1R5C
		50	1.8pF	±0.25pF	0.3	445-2920-1-ND	.51	2.99	8.63	445-2920-2-ND	15,000	8.00/M	C0603C0G1H1R8C
		50	2.0pF	±0.1pF	0.3	445-2911-1-ND	.77	4.55	13.13	445-2911-2-ND	15,000	13.00/M	C0603C0G1H020B
		50	2.0pF	±0.25pF	0.3	445-1761-1-ND	.51	2.99	8.63	445-1761-2-ND	15,000	8.28/M	C0603C0G1H020C
		50	2.2pF	±0.1pF	0.3	445-2912-1-ND	.77	4.55	13.13	445-2912-2-ND	15,000	13.00/M	C0603C0G1H2R2B
		50	2.2pF	±0.25pF	0.3	445-1771-1-ND	.51	2.99	8.63	445-1771-2-ND	15,000	8.28/M	C0603C0G1H2R2C
		50	2.7pF	±0.25pF	0.3	445-2921-1-ND	.51	2.99	8.63	445-2921-2-ND	15,000	8.00/M	C0603C0G1H2R7C
		50	3.0pF	±0.1pF	0.3	445-2913-1-ND	.77	4.55	13.13	—	—	—	C0603C0G1H030B
		50	3.0pF	±0.25pF	0.3	445-1762-1-ND	.51	2.99	8.63	445-1762-2-ND	15,000	8.28/M	C0603C0G1H030C
		50	3.3pF	±0.1pF	0.3	445-2914-1-ND	.77	4.55	13.13	445-2914-2-ND	15,000	13.00/M	C0603C0G1H3R3B
		50	3.3pF	±0.25pF	0.3	445-1772-1-ND	.51	2.99	8.63	445-1772-2-ND	15,000	8.28/M	C0603C0G1H3R3C
		50	3.9pF	±0.25pF	0.3	445-2922-1-ND	.51	2.99	8.63	445-2922-2-ND	15,000	8.00/M	C0603C0G1H3R9C
		50	4.0pF	±0.1pF	0.3	445-2915-1-ND	.77	4.55	13.13	—	—	—	C0603C0G1H040B
		50	4.0pF	±0.25pF	0.3	445-1763-1-ND	.51	2.99	8.63	445-1763-2-ND	15,000	8.28/M	C0603C0G1H040C
		50	4.7pF	±0.1pF	0.3	445-2916-1-ND	.77	4.55	13.13	—	—	—	C0603C0G1H4R7B
		50	4.7pF	±0.25pF	0.3	445-1773-1-ND	.51	2.99	8.63	445-1773-2-ND	15,000	8.28/M	C0603C0G1H4R7C
		50	5.0pF	±0.1pF	0.3	445-2917-1-ND	.77	4.55	13.13	—	—	—	C0603C0G1H050B
		50	5.0pF	±0.25pF	0.3	445-1764-1-ND	.51	2.99	8.63	445-1764-2-ND	15,000	8.28/M	C0603C0G1H050C
		50	5.6pF	±0.25pF	0.3	445-2923-1-ND	.51	2.99	8.63	445-2923-2-ND	15,000	8.00/M	C0603C0G1H5R6C
		50	6.0pF	±0.25pF	0.3	445-2924-1-ND	.51	2.99	8.63	—	—	—	C0603C0G1H060C
		50	6.0pF	±0.5pF	0.3	445-1765-1-ND	.51	2.99	8.63	445-1765-2-ND	15,000	8.28/M	C0603C0G1H060D
		50	6.8pF	±0.25pF	0.3	445-2925-1-ND	.51	2.99	8.63	445-2925-2-ND	15,000	8.00/M	C0603C0G1H6R8C
		50	6.8pF	±0.5pF	0.3	445-1774-1-ND	.51	2.99	8.63	445-1774-2-ND	15,000	8.28/M	C0603C0G1H6R8D
		50	7.0pF	±0.25pF	0.3	445-2926-1-ND	.51	2.99	8.63	445-2926-2-ND	15,000	8.00/M	C0603C0G1H070C
		50	7.0pF	±0.5pF	0.3	445-1766-1-ND	.51	2.99	8.63	445-1766-2-ND	15,000	8.28/M	C0603C0G1H070D
		50	8.0pF	±0.25pF	0.3	445-2927-1-ND	.51	2.99	8.63	—	—	—	C0603C0G1H080C
		50	8.0pF	±0.5pF	0.3	445-1767-1-ND	.51	2.99	8.63	445-1767-2-ND	15,000	8.28/M	C0603C0G1H080D
		50	8.2pF	±0.25pF	0.3	445-2928-1-ND	.51	2.99	8.63	445-2928-2-ND	15,000	8.00/M	C0603C0G1H8R2C
		50	9.0pF	±0.25pF	0.3	445-2929-1-ND	.51	2.99	8.63	445-2929-2-ND	15,000	8.00/M	C0603C0G1H090C
		50	9.0pF	±0.5pF	0.3	445-1768-1-ND	.51	2.99	8.63	445-1768-2-ND	15,000	8.28/M	C0603C0G1H090D
		50	10pF	±0.25pF	0.3	445-2930-1-ND	.51	2.99	8.63	445-2930-2-ND	15,000	8.00/M	C0603C0G1H100C
		50	10pF	±0.5pF	0.3	445-1769-1-ND	.51	2.99	8.63	445-1769-2-ND	15,000	8.28/M	C0603C0G1H100D
		50	11pF	±5%	0.3	445-2931-1-ND	.51	2.99	8.63	445-2931-2-ND	15,000	8.00/M	C0603C0G1H110J
		50	12pF	±5%	0.3	445-1775-1-ND	.51	2.99	8.63	445-1775-2-ND	15,000	8.28/M	C0603C0G1H120J
		50	13pF	±5%	0.3	445-2932-1-ND	.51	2.99	8.63	—	—	—	C0603C0G1H130J
		50	15pF	±5%	0.3	445-1776-1-ND	.51	2.99	8.63	445-1776-2-ND	15,000	8.28/M	C0603C0G1H150J
		50	16pF	±5%	0.3	445-2933-1-ND	.51	2.99	8.63	445-2933-2-ND	15,000	8.00/M	C0603C0G1H160J
		50	18pF	±5%	0.3	445-1777-1-ND	.51	2.99	8.63	445-1777-2-ND	15,000	8.28/M	C0603C0G1H180J
		50	20pF	±5%	0.3	445-2934-1-ND	.51	2.99	8.63	445-2934-2-ND	15,000	8.00/M	C0603C0G1H200J
		50	22pF	±5%	0.3	445-1778-1-ND	.51	2.99	8.63	445-1778-2-ND	15,000	8.28/M	C0603C0G1H220J
		50	24pF	±5%	0.3	445-2935-1-ND	.51	2.99	8.63	445-2935-2-ND	15,000	8.00/M	C0603C0G1H240J
		50	27pF	±5%	0.3	445-1779-1-ND	.51	2.99	8.63	445-1779-2-ND	15,000	8.28/M	C0603C0G1H270J
		50	30pF	±5%	0.3	445-2936-1-ND	.51	2.99	8.63	—	—	—	C0603C0G1H300J
		50	33pF	±5%	0.3	445-1780-1-ND	.51	2.99	8.63	445-1780-2-ND	15,000	8.28/M	C0603C0G1H330J
		50	36pF	±5%	0.3	445-2937-1-ND	.51	2.99	8.63	445-2937-2-ND	15,000	8.00/M	C0603C0G1H360J
		50	39pF	±5%	0.3	445-1781-1-ND	.51	2.99	8.63	445-1781-2-ND	15,000	8.28/M	C0603C0G1H390J
		50	43pF	±5%	0.3	445-2938-1-ND	.51	2.99	8.63	445-2938-2-ND	15,000	8.00/M	C0603C0G1H430J
		50	47pF	±5%	0.3	445-1782-1-ND	.51	2.99	8.63	445-1782-2-ND	15,000	8.28/M	C0603C0G1H470J
		50	51pF	±5%	0.3	445-2939-1-ND	.51	2.99	8.63	445-2939-2-ND	15,000	8.00/M	C0603C0G1H510J
		50	56pF	±5%	0.3	445-1783-1-ND	.51	2.99	8.63	445-1783-2-ND	15,000	8.28/M	C0603C0G1H560J
		50	68pF	±5%	0.3	445-1784-1-ND	.51	2.99	8.63	445-1784-2-ND	15,000	8.28/M	C0603C0G1H680J
		50	75pF	±5%	0.3	445-2941-1-ND	.51	2.99	8.63	445-2941-2-ND	15,000	8.00/M	C0603C0G1H750J
		50	82pF	±5%	0.3	445-1785-1-ND	.51	2.99	8.63	445-1785-2-ND	15,000	8.28/M	C0603C0G1H820J
		50	91pF	±5%	0.3	445-2942-1-ND	.51	2.99	8.63	—	—	—	C0603C0G1H910J
		50	100pF	±5%	0.3	445-1786-1-ND	.51	2.99	8.63	445-1786-2-ND	15,000	8.28/M	C0603C0G1H101J
	X5R	50	100pF	±10%	0.3	445-1787-1-ND	.49	2.90	8.36	445-1787-2-ND	15,000	8.03/M	C0603X5R1H101K
		50	220pF	±10%	0.3	445-1788-1-ND	.49	2.90	8.36	445-1788-2-ND	15,000	8.03/M	C0603X5R1H221K
		50	470pF	±10%	0.3	445-1789-1-ND	.49	2.90	8.36	445-1789-2-ND	15,000	8.03/M	C0603X5R1H471K
		25	1000pF	±10%	0.3	445-1790-1-ND	.51	3.03	8.74	445-1790-2-ND	15,000	8.39/M	C0603X5R1E102K
		25	2200pF	±10%	0.3	445-1791-1-ND	.49	2.90	8.36	445-1791-2-ND	15,000	8.03/M	C0603X5R1E222K
		16	4700pF	±10%	0.3	445-1792-1-ND	.49	2.90	8.36	445-1792-2-ND	15,000	8.03/M	C0603X5R1C472K
		10	10000pF	±10%	0.3	445-1793-1-ND	.49	2.90	8.36	445-1793-2-ND	15,000	8.03/M	C0603X5R1A103K
		6.3	22000pF	±10%	0.3	445-1794-1-ND	.61	3.59	10.37	445-1794-2-ND	15,000	9.96/M	C0603X5R0J223K
		6.3	47000pF	±10%	0.3	445-1795-1-ND	.58	3.45	9.94	445-1795-2-ND	15,000	9.54/M	C0603X5R0J473K
		6.3	0.1µF	±10%	0.3	445-1796-1-ND	.72	4.23	12.19	445-1796-2-ND	15,000	11.70/M	C0603X5R0J104K
	Y5V	16	10000pF	+80/-20%	0.3	445-1797-1-ND	.49	2.90	8.36	445-1797-2-ND	15,000	8.03/M	C0603Y5V1C103Z
0306	X7R	16	10000pF	±10%	0.5	445-1798-1-ND	2.93	17.34	50.03	445-1798-2-ND	4,000	48.03/M	C0816X7R1C103K
		16	22000pF	±10%	0.5	445-1799-1-ND	3.17	18.73	54.02	445-1799-2-ND	4,000	51.86/M	C0816X7R1C223K
		16	47000pF	±10%	0.5	445-1800-1-ND	3.52	20.81	60.02	445-1800-2-ND	4,000	57.62/M	C0816X7R1C473K
		16	0.1µF	±10%	0.5	445-1801-1-ND	3.76	22.19	64.01	445-1801-2-ND	4,000	61.46/M	C0816X7R1C104K
	X5R	10	0.22µF	±10%	0.5	445-1802-1-ND	3.99	23.58	68.03	445-1802-2-ND	4,000	65.31/M	C0816X5R1A224K
0402	C0G (NP0)	50	10pF	±0.5pF	0.5	445-1235-1-ND	.53	3.15	9.09	445-1235-2-ND	10,000	8.73/M	C1005C0G1H100D
		50	12pF	±5%	0.5	445-1236-1-ND	.55	3.28	9.45	445-1236-2-ND	10,000	9.08/M	C1005C0G1H120J
		50	15pF	±5%	0.5	445-1237-1-ND	.57	3.38	9.75	445-1237-2-ND	10,000	9.36/M	C1005C0G1H150J
		50	18pF	±5%	0.5	445-1238-1-ND	.55	3.28	9.45	445-1238-2-ND	10,000	9.08/M	C1005C0G1H180J
		50	22pF	±5%	0.5	445-1239-1-ND	.53	3.15	9.09	445-1239-2-ND	10,000	8.73/M	C1005C0G1H220J
		50	27pF	±5%	0.5	445-1240-1-ND	.55	3.28	9.45	445-1240-2-ND	10,000	9.08/M	C1005C0G1H270J
		50	33pF	±5%	0.5	445-1241-1-ND	.55	3.28	9.45	445-1241-2-ND	10,000	9.08/M	C1005C0G1H330J
		50	39pF	±5%	0.5	445-1242-1-ND	.55	3.28	9.45	445-1242-2-ND	10,000	9.08/M	C1005C0G1H390J
		50	47pF	±5%	0.5	445-1243-1-ND	.53	3.15	9.09	445-1243-2-ND	10,000	8.73/M	C1005C0G1H470J
		50	56pF	±5%	0.5	445-1244-1-ND	.55	3.28	9.45	445-1244-2-ND	10,000	9.08/M	C1005C0G1H560J
		50	68pF	±5%	0.5	445-1245-1-ND	.55	3.28	9.45	445-1245-2-ND	10,000	9.08/M	C1005C0G1H680J
		50	82pF	±5%	0.5	445-1246-1-ND	.55	3.28	9.45	445-1246-2-ND	10,000	9.08/M	C1005C0G1H820J
		50	100pF	±5%	0.5	445-1247-1-ND	.53	3.15	9.09	445-1247-2-ND	10,000	8.73/M	C1005C0G1H101J
		50	120pF	±5%	0.5	445-1248-1-ND	.62	3.66	10.56	445-1248-2-ND	10,000	10.14/M	C1005C0G1H121J
		50	150pF	±5%	0.5	445-1249-1-ND	.62	3.66	10.56	445-1249-2-ND	10,000	10.14/M	C1005C0G1H151J
		50	180pF	±5%	0.5	445-1250-1-ND	.66	3.90	11.25	445-1250-2-ND	10,000	10.80/M	C1005C0G1H181J

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TDK Multilayer Ceramic Chip Capacitors *(Cont.)*

Case		WV			Dim. T	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		TDK
Size	Type	DC	Capacitance	Tolerance	(mm)	Part No.	10	100	500	Part No.	Qty.	Pricing	Part No.
0402	C0G (NP0)	50	220pF	±5%	0.5	445-1251-1-ND	.66	3.90	11.25	445-1251-2-ND	10,000	10.80/M	C1005C0G1H221J
		50	270pF	±5%	0.5	445-1252-1-ND	.77	4.55	13.13	445-1252-2-ND	10,000	12.60/M	C1005C0G1H271J
		50	330pF	±5%	0.5	445-1253-1-ND	.77	4.55	13.13	445-1253-2-ND	10,000	12.60/M	C1005C0G1H331J
		50	390pF	±5%	0.5	445-2655-1-ND	.88	5.20	15.00	—	—	—	C1005C0G1H391J
		50	470pF	±5%	0.5	445-2656-1-ND	.88	5.20	15.00	445-2656-2-ND	10,000	14.00/M	C1005C0G1H471J
		25	680pF	±5%	0.5	445-2653-1-ND	.99	5.85	16.88	—	—	—	C1005C0G1E681J
		25	820pF	±5%	0.5	445-2654-1-ND	1.10	6.50	18.75	445-2654-2-ND	10,000	18.00/M	C1005C0G1E821J
		25	1000pF	±5%	0.5	445-2651-1-ND	1.10	6.50	18.75	445-2651-2-ND	10,000	18.00/M	C1005C0G1E102J
	X7R	50	220pF	±10%	0.5	445-1254-1-ND	.55	3.28	9.45	445-1254-2-ND	10,000	9.08/M	C1005X7R1H221K
		50	470pF	±10%	0.5	445-1255-1-ND	.55	3.28	9.45	445-1255-2-ND	10,000	9.08/M	C1005X7R1H471K
		50	1000pF	±10%	0.5	445-1256-1-ND	.53	3.15	9.09	445-1256-2-ND	10,000	8.73/M	C1005X7R1H102K
		50	2200pF	±10%	0.5	445-1257-1-ND	.55	3.28	9.45	—	—	—	C1005X7R1H222K
		50	4700pF	±10%	0.5	445-1258-1-ND	.55	3.28	9.45	445-1258-2-ND	10,000	9.08/M	C1005X7R1H472K
		25	4700pF	±10%	0.5	445-1259-1-ND	.55	3.28	9.45	445-1259-2-ND	10,000	9.08/M	C1005X7R1E472K
		25	10000pF	±10%	0.5	445-1260-1-ND	.55	3.28	9.45	445-1260-2-ND	10,000	9.08/M	C1005X7R1E103K
		25	22000pF	±10%	0.5	445-1261-1-ND	.77	4.55	13.13	445-1261-2-ND	10,000	12.60/M	C1005X7R1E223K
		16	10000pF	±10%	0.5	445-1262-1-ND	.53	3.15	9.09	445-1262-2-ND	10,000	8.73/M	C1005X7R1C103K
		16	22000pF	±10%	0.5	445-1263-1-ND	.69	4.10	11.83	445-1263-2-ND	10,000	11.36/M	C1005X7R1C223K
		16	47000pF	±10%	0.5	445-1264-1-ND	1.19	7.02	20.25	445-1264-2-ND	10,000	19.44/M	C1005X7R1C473K
	X5R	10	0.1µF	±10%	0.5	445-1265-1-ND	1.44	8.52	24.56	445-1265-2-ND	10,000	23.58/M	C1005X5R1A104K
		6.3	0.1µF	±10%	0.5	445-1266-1-ND	1.44	8.52	24.56	445-1266-2-ND	10,000	23.58/M	C1005X5R0J104K
		6.3	0.22µF	±20%	0.5	445-1267-1-ND	2.75	16.25	46.88	445-1267-2-ND	10,000	45.00/M	C1005X5R0J224M
		6.3	1.0µF	±20%	0.5	445-1415-1-ND	1.98	11.70	33.75	445-1415-2-ND	10,000	32.40/M	C1005X5R0J105M
	Y5V	50	10000pF	+80/-20%	0.5	445-3447-1-ND ***NEW!***	.28	1.63	4.69	445-3447-2-ND ***NEW!***	10,000	5.00/M	C1005Y5V1H103Z
		25	0.1µF	+80/-20%	0.5	445-3445-1-ND ***NEW!***	.28	1.63	4.69	445-3445-2-ND ***NEW!***	10,000	5.00/M	C1005Y5V1E104Z
		25	0.22µF	+80/-20%	0.5	445-3446-1-ND ***NEW!***	.55	3.25	9.38	445-3446-2-ND ***NEW!***	10,000	9.00/M	C1005Y5V1E224Z
		16	0.1µF	+80/-20%	0.5	445-1268-1-ND	.28	1.63	4.69	445-1268-2-ND	10,000	4.50/M	C1005Y5V1C104Z
		16	0.22µF	+80/-20%	0.5	445-3444-1-ND ***NEW!***	.55	3.25	9.38	445-3444-2-ND ***NEW!***	10,000	9.00/M	C1005Y5V1C224Z
		10	0.22µF	+80/-20%	0.5	445-3442-1-ND ***NEW!***	.55	3.25	9.38	445-3442-2-ND ***NEW!***	10,000	9.00/M	C1005Y5V1A224Z
		10	0.47µF	+80/-20%	0.5	445-3443-1-ND ***NEW!***	.55	3.25	9.38	445-3443-2-ND ***NEW!***	10,000	9.00/M	C1005Y5V1A474Z
		6.3	1.0µF	+80/-20%	0.5	445-3441-1-ND ***NEW!***	.55	3.25	9.38	445-3441-2-ND ***NEW!***	10,000	9.00/M	C1005Y5V0J105Z
	X8R	50	150pF	±10%	0.5	445-3416-1-ND ***NEW!***	1.65	9.75	28.13	445-3416-2-ND ***NEW!***	10,000	27.00/M	C1005X8R1H151K
		50	220pF	±10%	0.5	445-2495-1-ND	1.65	9.75	28.13	445-2495-2-ND	10,000	27.00/M	C1005X8R1H221K
		50	330pF	±10%	0.5	445-3418-1-ND ***NEW!***	1.65	9.75	28.13	445-3418-2-ND ***NEW!***	10,000	27.00/M	C1005X8R1H331K
		50	470pF	±10%	0.5	445-2496-1-ND	1.65	9.75	28.13	—	—	—	C1005X8R1H471K
		50	680pF	±10%	0.5	445-3420-1-ND ***NEW!***	1.65	9.75	28.13	445-3420-2-ND ***NEW!***	10,000	27.00/M	C1005X8R1H681K
		50	1500pF	±10%	0.5	445-3417-1-ND ***NEW!***	1.65	9.75	28.13	445-3417-2-ND ***NEW!***	10,000	27.00/M	C1005X8R1H152K
		50	1000pF	±10%	0.5	445-2497-1-ND	1.65	9.75	28.13	445-2497-2-ND	10,000	27.00/M	C1005X8R1H102K
		50	2200pF	±10%	0.5	445-2498-1-ND	1.65	9.75	28.13	—	—	—	C1005X8R1H222K
		50	4700pF	±10%	0.5	445-2499-1-ND	1.65	9.75	28.13	—	—	—	C1005X8R1H472K
		50	3300pF	±10%	0.5	445-3419-1-ND ***NEW!***	1.65	9.75	28.13	445-3419-2-ND ***NEW!***	10,000	27.00/M	C1005X8R1H332K
		25	6800pF	±10%	0.5	445-3415-1-ND ***NEW!***	1.65	9.75	28.13	445-3415-2-ND ***NEW!***	10,000	27.00/M	C1005X8R1E682K
		25	0.01µF	±10%	0.5	445-2494-1-ND	1.65	9.75	28.13	445-2494-2-ND	10,000	27.00/M	C1005X8R1E103K
	SL	10	1200pF	±5%	0.5	445-2657-1-ND	1.54	9.10	26.25	—	—	—	C1005SL1A122J
		10	1500pF	±5%	0.5	445-2658-1-ND	1.54	9.10	26.25	445-2658-2-ND	10,000	25.00/M	C1005SL1A152J
		10	1800pF	±5%	0.5	445-2659-1-ND	1.87	11.05	31.88	445-2659-2-ND	10,000	31.00/M	C1005SL1A182J
		10	2200pF	±5%	0.5	445-2660-1-ND	1.87	11.05	31.88	—	—	—	C1005SL1A222J
		10	2700pF	±5%	0.5	445-2661-1-ND	2.20	13.00	37.50	445-2661-2-ND	10,000	36.00/M	C1005SL1A272J
		10	3300pF	±5%	0.5	445-2662-1-ND	2.20	13.00	37.50	—	—	—	C1005SL1A332J
		10	3900pF	±5%	0.5	445-2663-1-ND	2.20	13.00	37.50	445-2663-2-ND	10,000	36.00/M	C1005SL1A392J
0508	X7R	50	10000pF	±10%	0.85	445-1803-1-ND	3.29	19.42	56.03	445-1803-2-ND	4,000	53.79/M	C1220X7R1H103K
		50	22000pF	±10%	0.85	445-1804-1-ND	3.52	20.81	60.02	445-1804-2-ND	4,000	57.62/M	C1220X7R1H223K
		50	47000pF	±10%	0.85	445-1805-1-ND	3.76	22.19	64.01	445-1805-2-ND	4,000	61.46/M	C1220X7R1H473K
		25	0.1 µF	±10%	0.85	445-1806-1-ND	3.99	23.58	68.03	445-1806-2-ND	4,000	65.31/M	C1220X7R1E104K
		16	0.22µF	±10%	0.85	445-1807-1-ND	4.23	24.97	72.02	445-1807-2-ND	4,000	69.14/M	C1220X7R1C224K
	X5R	10	0.47µF	±10%	0.85	445-1808-1-ND	4.46	26.36	76.03	445-1808-2-ND	4,000	72.99/M	C1220X5R1A474K
		10	1.0µF	±10%	0.85	445-1809-1-ND	4.69	27.74	80.03	445-1809-2-ND	4,000	76.83/M	C1220X5R1A105K
0603	C0G (NP0)	250	100pF	±5%	0.8	445-2314-1-ND	.64	3.78	10.91	445-2314-2-ND	4,000	10.00/M	C1608C0G2E101J
		250	150pF	±5%	0.8	445-2315-1-ND	.72	4.26	12.28	445-2315-2-ND	4,000	12.00/M	C1608C0G2E151J
		250	220pF	±5%	0.8	445-2316-1-ND	.80	4.73	13.65	445-2316-2-ND	4,000	13.00/M	C1608C0G2E221J
		250	330pF	±5%	0.8	445-2317-1-ND	.88	5.20	15.00	445-2317-2-ND	4,000	14.00/M	C1608C0G2E331J
		250	470pF	±5%	0.8	445-2318-1-ND	.96	5.67	16.37	445-2318-2-ND	4,000	16.00/M	C1608C0G2E471J
		250	680pF	±5%	0.8	445-2319-1-ND	1.04	6.15	17.74	445-2319-2-ND	4,000	17.00/M	C1608C0G2E681J
		100	100pF	±5%	0.8	445-2306-1-ND	.50	2.93	8.44	445-2306-2-ND	4,000	8.00/M	C1608C0G2A101J
		100	150pF	±5%	0.8	445-2307-1-ND	.58	3.41	9.84	445-2307-2-ND	4,000	9.00/M	C1608C0G2A151J
		100	220pF	±5%	0.8	445-2308-1-ND	.66	3.90	11.25	445-2308-2-ND	4,000	11.00/M	C1608C0G2A221J
		100	330pF	±5%	0.8	445-2309-1-ND	.74	4.39	12.66	445-2309-2-ND	4,000	12.00/M	C1608C0G2A331J
		100	470pF	±5%	0.8	445-2310-1-ND	.80	4.73	13.65	445-2310-2-ND	4,000	13.00/M	C1608C0G2A471J
		100	680pF	±5%	0.8	445-2311-1-ND	.88	5.20	15.00	445-2311-2-ND	4,000	14.00/M	C1608C0G2A681J
		100	1000pF	±5%	0.8	445-2312-1-ND	.99	5.85	16.88	445-2312-2-ND	4,000	16.00/M	C1608C0G2A102J
		100	1200pF	±5%	0.8	445-2313-1-ND	1.07	6.34	18.28	445-2313-2-ND	4,000	18.00/M	C1608C0G2A122J
		50	10pF	±0.5pF	0.8	445-1269-1-ND	.48	2.84	8.19	445-1269-2-ND	4,000	7.87/M	C1608C0G1H100D
		50	12pF	±5%	0.8	445-1270-1-ND	.51	3.03	8.74	445-1270-2-ND	4,000	8.39/M	C1608C0G1H120J
		50	15pF	±5%	0.8	445-1271-1-ND	.51	3.03	8.74	445-1271-2-ND	4,000	8.39/M	C1608C0G1H150J
		50	18pF	±5%	0.8	445-1272-1-ND	.51	3.03	8.74	445-1272-2-ND	4,000	8.39/M	C1608C0G1H180J
		50	22pF	±5%	0.8	445-1273-1-ND	.48	2.84	8.19	445-1273-2-ND	4,000	7.87/M	C1608C0G1H220J
		50	27pF	±5%	0.8	445-1274-1-ND	.51	3.03	8.74	445-1274-2-ND	4,000	8.39/M	C1608C0G1H270J
		50	33pF	±5%	0.8	445-1275-1-ND	.51	3.03	8.74	445-1275-2-ND	4,000	8.39/M	C1608C0G1H330J
		50	39pF	±5%	0.8	445-1276-1-ND	.51	3.03	8.74	445-1276-2-ND	4,000	8.39/M	C1608C0G1H390J
		50	47pF	±5%	0.8	445-1277-1-ND	.48	2.84	8.19	445-1277-2-ND	4,000	7.87/M	C1608C0G1H470J
		50	56pF	±5%	0.8	445-1278-1-ND	.51	3.03	8.74	445-1278-2-ND	4,000	8.39/M	C1608C0G1H560J
		50	68pF	±5%	0.8	445-1279-1-ND	.51	3.03	8.74	445-1279-2-ND	4,000	8.39/M	C1608C0G1H680J
		50	82pF	±5%	0.8	445-1280-1-ND	.51	3.03	8.74	445-1280-2-ND	4,000	8.39/M	C1608C0G1H820J
		50	100pF	±5%	0.8	445-1281-1-ND	.48	2.84	8.19	445-1281-2-ND	4,000	7.87/M	C1608C0G1H101J
		50	120pF	±5%	0.8	445-1282-1-ND	.51	2.99	8.63	445-1282-2-ND	4,000	8.28/M	C1608C0G1H121J
		50	150pF	±5%	0.8	445-1283-1-ND	.51	3.03	8.74	445-1283-2-ND	4,000	8.39/M	C1608C0G1H151J
		50	180pF	±5%	0.8	445-1284-1-ND	.59	3.47	10.01	445-1284-2-ND	4,000	9.62/M	C1608C0G1H181J
		50	220pF	±5%	0.8	445-1285-1-ND	.59	3.47	10.01	445-1285-2-ND	4,000	9.62/M	C1608C0G1H221J
		50	270pF	±5%	0.8	445-1286-1-ND	.69	4.10	11.83	445-1286-2-ND	4,000	11.36/M	C1608C0G1H271J
		50	330pF	±5%	0.8	445-1287-1-ND	.69	4.10	11.83	445-1287-2-ND	4,000	11.36/M	C1608C0G1H331J
		50	390pF	±5%	0.8	445-1288-1-ND	.80	4.73	13.65	445-1288-2-ND	4,000	13.11/M	C1608C0G1H391J
		50	470pF	±5%	0.8	445-1289-1-ND	.80	4.73	13.65	445-1289-2-ND	4,000	13.11/M	C1608C0G1H471J
		50	560pF	±5%	0.8	445-1290-1-ND	.91	5.36	15.47	445-1290-2-ND	4,000	14.85/M	C1608C0G1H561J
		50	680pF	±5%	0.8	445-1291-1-ND	.91	5.36	15.47	445-1291-2-ND	4,000	14.85/M	C1608C0G1H681J
		50	820pF	±5%	0.8	445-1292-1-ND	1.12	6.62	19.11	445-1292-2-ND	4,000	18.35/M	C1608C0G1H821J
		50	1000pF	±5%	0.8	445-1293-1-ND	.77	4.55	13.13	445-1293-2-ND	4,000	33.60/M	C1608C0G1H102J
		50	1200pF	±5%	0.8	445-1294-1-ND	1.43	8.45	24.38	445-1294-2-ND	4,000	23.40/M	C1608C0G1H122J
		50	1500pF	±5%	0.8	445-1295-1-ND	1.43	8.45	24.38	445-1295-2-ND	4,000	23.40/M	C1608C0G1H152J
		50	1800pF	±5%	0.8	445-1296-1-ND	2.00	11.81	34.07	445-1296-2-ND	4,000	32.71/M	C1608C0G1H182J
		50	2200pF	±5%	0.8	445-1297-1-ND	1.94	11.45	33.04	445-1297-2-ND	4,000	31.72/M	C1608C0G1H222J
		50	2700pF	±5%	0.8	445-2669-1-ND	2.20	13.00	37.50	445-2669-2-ND	4,000	36.00/M	C1608C0G1H272J
		50	3300pF	±5%	0.8	445-1599-1-ND	2.20	13.00	37.50	445-1599-2-ND	4,000	36.00/M	C1608C0G1H332J
		25	3900pF	±5%	0.8	445-2665-1-ND	2.75	16.25	46.88	445-2665-2-ND	4,000	45.00/M	C1608C0G1E392J
		25	4700pF	±5%	0.8	445-2712-1-ND	2.75	16.25	46.88	445-2712-2-ND	4,000	45.00/M	C1608C0G1E472J
		25	5600pF	±5%	0.8	445-2666-1-ND	3.30	19.50	56.25	445-2666-2-ND	4,000	54.00/M	C1608C0G1E562J
		25	6800pF	±5%	0.8	445-2667-1-ND	3.30	19.50	56.25	445-2667-2-ND	4,000	54.00/M	C1608C0G1E682J

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Multilayer Ceramic Chip Capacitors *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
0603	C0G (NP0)	25	8200pF	±5%	0.8	445-2668-1-ND	3.85	22.75	65.63	445-2668-2-ND	4,000	63.00/M	C1608C0G1E822J
		25	10000pF	±5%	0.8	445-2664-1-ND	3.85	22.75	65.63	445-2664-2-ND	4,000	63.00/M	C1608C0G1E103J
	X7R	100	1000pF	±10%	0.8	445-1298-1-ND	1.15	6.81	19.65	445-1298-2-ND	4,000	18.87/M	C1608X7R2A102K
		100	1000pF	±20%	0.8	445-1299-1-ND	1.09	6.44	18.56	445-1299-2-ND	4,000	17.82/M	C1608X7R2A102M
		100	2200pF	±10%	0.8	445-1300-1-ND	.88	5.20	15.00	445-1300-2-ND	4,000	14.40/M	C1608X7R2A222K
		100	2200pF	±20%	0.8	445-1301-1-ND	.88	5.20	15.00	445-1301-2-ND	4,000	14.40/M	C1608X7R2A222M
		100	4700pF	±10%	0.8	445-1302-1-ND	.88	5.20	15.00	445-1302-2-ND	4,000	14.40/M	C1608X7R2A472K
		100	4700pF	±20%	0.8	445-1303-1-ND	.88	5.20	15.00	445-1303-2-ND	4,000	14.40/M	C1608X7R2A472M
		100	10000pF	±10%	0.8	445-1304-1-ND	.96	5.67	16.37	445-1304-2-ND	4,000	15.72/M	C1608X7R2A103K
		100	10000pF	±20%	0.8	445-1305-1-ND	.96	5.67	16.37	445-1305-2-ND	4,000	15.72/M	C1608X7R2A103M
		100	22000pF	±10%	0.8	445-2275-1-ND	1.28	7.57	21.83	445-2275-2-ND	4,000	21.00/M	C1608X7R2A223K
		50	220pF	±10%	0.8	445-1306-1-ND	.51	3.03	8.74	445-1306-2-ND	4,000	8.39/M	C1608X7R1H221K
		50	470pF	±10%	0.8	445-1307-1-ND	.51	3.03	8.74	445-1307-2-ND	4,000	8.39/M	C1608X7R1H471K
		50	1000pF	±10%	0.8	445-1308-1-ND	.48	2.84	8.19	445-1308-2-ND	4,000	7.87/M	C1608X7R1H102K
		50	2200pF	±10%	0.8	445-1309-1-ND	.51	3.03	8.74	445-1309-2-ND	4,000	8.39/M	C1608X7R1H222K
		50	4700pF	±10%	0.8	445-1310-1-ND	.51	3.03	8.74	445-1310-2-ND	4,000	8.39/M	C1608X7R1H472K
		50	10000pF	±10%	0.8	445-1311-1-ND	.48	2.84	8.19	445-1311-2-ND	4,000	7.87/M	C1608X7R1H103K
		50	22000pF	±10%	0.8	445-1312-1-ND	.69	4.10	11.83	445-1312-2-ND	4,000	11.36/M	C1608X7R1H223K
		50	47000pF	±10%	0.8	445-1313-1-ND	1.01	5.99	17.29	445-1313-2-ND	4,000	16.60/M	C1608X7R1H473K
		50	0.1µF	±10%	0.8	445-1314-1-ND	1.12	6.62	19.11	445-1314-2-ND	4,000	18.35/M	C1608X7R1H104K
		25	47000pF	±10%	0.8	445-1315-1-ND	1.01	5.99	17.29	445-1315-2-ND	4,000	16.60/M	C1608X7R1E473K
		25	0.1µF	±10%	0.8	445-1316-1-ND	.94	5.55	16.01	445-1316-2-ND	4,000	15.38/M	C1608X7R1E104K
		16	0.1µF	±10%	0.8	445-1317-1-ND	.94	5.55	16.01	445-1317-2-ND	4,000	15.38/M	C1608X7R1C104K
		16	0.22µF	±10%	0.8	445-1318-1-ND	.83	4.88	14.06	445-1318-2-ND	4,000	13.50/M	C1608X7R1C224K
		16	1.0µF	±10%	0.8	445-1604-1-ND	1.16	6.83	19.69	445-1604-2-ND	4,000	19.00/M	C1608X7R1C105K
	X5R	16	1.0µF	±10%	0.8	445-1416-1-ND	.83	4.88	14.06	445-1416-2-ND	4,000	13.50/M	C1608X5R1C105K
		10	0.22µF	±10%	0.8	445-1319-1-ND	1.79	10.60	30.56	445-1319-2-ND	4,000	29.34/M	C1608X5R1A224K
		10	0.47µF	±10%	0.8	445-1320-1-ND	2.75	16.25	46.88	445-1320-2-ND	4,000	45.00/M	C1608X5R1A474K
		10	1.0µF	±10%	0.8	445-1321-1-ND	2.20	13.00	37.50	445-1321-2-ND	4,000	36.00/M	C1608X5R1A105K
		6.3	1.0µF	±10%	0.8	445-1322-1-ND	2.20	13.00	37.50	445-1322-2-ND	4,000	36.00/M	C1608X5R0J105K
		6.3	2.2µF	±20%	0.8	445-1323-1-ND	3.04	17.94	51.75	445-1323-2-ND	4,000	49.68/M	C1608X5R0J225M
		6.3	4.7µF	±20%	0.8	445-1417-1-ND	3.30	19.50	56.25	445-1417-2-ND	4,000	54.00/M	C1608X5R0J475M
	Y5V	50	0.1µF	+80/-20%	0.8	445-1324-1-ND	.41	2.41	6.94	445-1324-2-ND	4,000	6.66/M	C1608Y5V1H104Z
		50	0.22µF	+80/-20%	0.8	445-3455-1-ND ***NEW!***	.83	4.88	14.06	445-3455-2-ND ***NEW!***	4,000	14.00/M	C1608Y5V1H224Z
		50	0.47µF	+80/-20%	0.8	445-3456-1-ND ***NEW!***	.83	4.88	14.06	445-3456-2-ND ***NEW!***	4,000	14.00/M	C1608Y5V1H474Z
		25	0.1µF	+80/-20%	0.8	445-1325-1-ND	.30	1.76	5.06	445-1325-2-ND	4,000	4.86/M	C1608Y5V1E104Z
		25	0.22µF	+80/-20%	0.8	445-3453-1-ND ***NEW!***	.66	3.90	11.25	445-3453-2-ND ***NEW!***	4,000	11.00/M	C1608Y5V1E224Z
		25	0.47µF	+80/-20%	0.8	445-3454-1-ND ***NEW!***	.77	4.55	13.13	445-3454-2-ND ***NEW!***	4,000	13.00/M	C1608Y5V1E474Z
		25	1.0µF	+80/-20%	0.8	445-3452-1-ND ***NEW!***	.77	4.55	13.13	445-3452-2-ND ***NEW!***	4,000	13.00/M	C1608Y5V1E105Z
		16	0.1µF	+80/-20%	0.8	445-1326-1-ND	.33	1.95	5.63	445-1326-2-ND	4,000	5.40/M	C1608Y5V1C104Z
		16	1.0µF	+80/-20%	0.8	445-1327-1-ND	.66	3.90	11.25	445-1327-2-ND	4,000	10.80/M	C1608Y5V1C105Z
		16	2.2µF	+80/-20%	0.8	445-3451-1-ND ***NEW!***	1.10	6.50	18.75	445-3451-2-ND ***NEW!***	4,000	18.00/M	C1608Y5V1C225Z
		10	1.0µF	+80/-20%	0.8	445-1328-1-ND	.55	3.25	9.38	445-1328-2-ND	4,000	9.00/M	C1608Y5V1A105Z
		10	2.2µF	+80/-20%	0.8	445-3450-1-ND ***NEW!***	1.10	6.50	18.75	445-3450-2-ND ***NEW!***	4,000	18.00/M	C1608Y5V1A225Z
		6.3	4.7µF	+80/-20%	0.8	445-3449-1-ND ***NEW!***	1.65	9.75	28.13	445-3449-2-ND ***NEW!***	4,000	27.00/M	C1608Y5V0J475Z
		6.3	10µF	+80/-20%	0.8	445-3448-1-ND ***NEW!***	2.20	13.00	37.50	445-3448-2-ND ***NEW!***	4,000	36.00/M	C1608Y5V0J106Z
	X8R	100	1000pF	±10%	0.8	445-2507-1-ND	1.32	7.80	22.50	445-2507-2-ND	4,000	22.00/M	C1608X8R2A102K
		100	1500pF	±10%	0.95	445-3427-1-ND ***NEW!***	1.32	7.80	22.50	445-3427-2-ND ***NEW!***	4,000	22.00/M	C1608X8R2A152K
		100	2200pF	±10%	0.8	445-2508-1-ND	1.32	7.80	22.50	—	—	—	C1608X8R2A222K
		100	3300pF	±10%	0.95	445-3428-1-ND ***NEW!***	1.32	7.80	22.50	445-3428-2-ND ***NEW!***	4,000	22.00/M	C1608X8R2A332K
		100	4700pF	±10%	0.8	445-2509-1-ND	1.32	7.80	22.50	445-2509-2-ND	4,000	22.00/M	C1608X8R2A472K
		100	6800pF	±10%	0.95	445-3429-1-ND ***NEW!***	1.32	7.80	22.50	445-3429-2-ND ***NEW!***	4,000	22.00/M	C1608X8R2A682K
		100	0.01µF	±10%	0.8	445-2510-1-ND	1.32	7.80	22.50	445-2510-2-ND	4,000	22.00/M	C1608X8R2A103K
		100	0.015µF	±10%	0.8	445-2511-1-ND	1.32	7.80	22.50	445-2511-2-ND	4,000	22.00/M	C1608X8R2A153K
		50	1000pF	±10%	0.8	445-2501-1-ND	1.16	6.83	19.69	445-2501-2-ND	4,000	19.00/M	C1608X8R1H102K
		50	1500pF	±10%	0.95	445-3422-1-ND ***NEW!***	1.32	7.80	22.50	445-3422-2-ND ***NEW!***	4,000	22.00/M	C1608X8R1H152K
		50	2200pF	±10%	0.8	445-2502-1-ND	1.16	6.83	19.69	445-2502-2-ND	4,000	19.00/M	C1608X8R1H222K
		50	3300pF	±10%	0.95	445-3424-1-ND ***NEW!***	1.32	7.80	22.50	445-3424-2-ND ***NEW!***	4,000	22.00/M	C1608X8R1H332K
		50	4700pF	±10%	0.8	445-2503-1-ND	1.16	6.83	19.69	445-2503-2-ND	4,000	19.00/M	C1608X8R1H472K
		50	6800pF	±10%	0.95	445-3426-1-ND ***NEW!***	1.32	7.80	22.50	445-3426-2-ND ***NEW!***	4,000	22.00/M	C1608X8R1H682K
		50	15000pF	±10%	0.95	445-3423-1-ND ***NEW!***	1.32	7.80	22.50	445-3423-2-ND ***NEW!***	4,000	22.00/M	C1608X8R1H153K
		50	33000pF	±10%	0.95	445-3425-1-ND ***NEW!***	1.16	6.83	19.69	445-3425-2-ND ***NEW!***	4,000	19.00/M	C1608X8R1H333K
		50	0.01µF	±10%	0.8	445-2504-1-ND	1.16	6.83	19.69	445-2504-2-ND	4,000	19.00/M	C1608X8R1H103K
		50	0.022µF	±10%	0.8	445-2505-1-ND	1.16	6.83	19.69	445-2505-2-ND	4,000	19.00/M	C1608X8R1H223K
		50	0.047µF	±10%	0.8	445-2506-1-ND	1.16	6.83	19.69	445-2506-2-ND	4,000	19.00/M	C1608X8R1H473K
		25	68000pF	±10%	0.95	445-3421-1-ND ***NEW!***	1.32	7.80	22.50	445-3421-2-ND ***NEW!***	4,000	22.00/M	C1608X8R1E683K
		25	0.1µF	±10%	0.8	445-2500-1-ND	1.16	6.83	19.69	445-2500-2-ND	4,000	19.00/M	C1608X8R1E104K
	SL	10	15000pF	±5%	0.5	445-2670-1-ND	6.60	39.00	112.50	445-2670-2-ND	4,000	108.00/M	C1608SL1A153J
		10	22000pF	±5%	0.5	445-2671-1-ND	6.60	39.00	112.50	445-2671-2-ND	4,000	108.00/M	C1608SL1A223J
0612	X7R	50	10000pF	±10%	0.7	445-1810-1-ND	3.52	20.81	60.02	445-1810-2-ND	4,000	57.62/M	C1632X7R1H103K
		50	22000pF	±10%	0.7	445-1811-1-ND	3.76	22.19	64.01	445-1811-2-ND	4,000	61.46/M	C1632X7R1H223K
		50	47000pF	±10%	0.7	445-1812-1-ND	3.99	23.58	68.03	445-1812-2-ND	4,000	65.31/M	C1632X7R1H473K
		50	0.1µF	±10%	0.7	445-1813-1-ND	4.23	24.97	72.02	445-1813-2-ND	4,000	69.14/M	C1632X7R1H104K
		50	0.22µF	±10%	1.15	445-1814-1-ND	4.46	26.36	76.03	445-1814-2-ND	2,000	72.99/M	C1632X7R1H224K
		25	0.22µF	±10%	0.7	445-1815-1-ND	4.23	24.97	72.02	445-1815-2-ND	4,000	69.14/M	C1632X7R1E224K
		25	0.47µF	±10%	1.15	445-1816-1-ND	4.69	27.74	80.03	445-1816-2-ND	2,000	76.83/M	C1632X7R1E474K
		16	0.47µF	±10%	0.7	445-1817-1-ND	4.46	26.36	76.03	445-1817-2-ND	4,000	72.99/M	C1632X7R1C474K
		16	1.0µF	±10%	1.15	445-1818-1-ND	5.87	34.68	100.03	445-1818-2-ND	2,000	96.03/M	C1632X7R1C105K
	X5R	10	1.0µF	±10%	0.7	445-1819-1-ND	5.63	33.29	96.04	445-1819-2-ND	4,000	92.20/M	C1632X5R1A105K
		10	2.2µF	±10%	1.15	445-1820-1-ND	7.04	41.61	120.04	445-1820-2-ND	2,000	115.24/M	C1632X5R1A225K
		6.3	4.7µF	±10%	1.3	445-1821-1-ND	.82	4.87	14.04	445-1821-2-ND	2,000	13.48/M	C1632X5R0J475K
0805	C0G (NP0)	250	1000pF	±5%	0.85	445-2325-1-ND	1.60	9.46	27.28	445-2325-2-ND	4,000	26.00/M	C2012C0G2E102J
		250	1500pF	±5%	0.85	445-2326-1-ND	1.92	11.35	32.74	445-2326-2-ND	4,000	31.00/M	C2012C0G2E152J
		250	2200pF	±5%	1.25	445-2327-1-ND	2.24	13.24	38.19	445-2327-2-ND	2,000	37.00/M	C2012C0G2E222J
		250	2700pF	±5%	1.25	445-2328-1-ND	2.40	14.19	40.93	445-2328-2-ND	2,000	39.00/M	C2012C0G2E272J
		100	1000pF	±5%	0.6	445-2320-1-ND	1.20	7.09	20.46	445-2320-2-ND	4,000	20.00/M	C2012C0G2A102J
		100	1500pF	±5%	0.6	445-2321-1-ND	1.44	8.52	24.56	445-2321-2-ND	4,000	24.00/M	C2012C0G2A152J
		100	2200pF	±5%	0.85	445-2322-1-ND	1.76	10.41	30.02	445-2322-2-ND	4,000	29.00/M	C2012C0G2A222J
		100	3300pF	±5%	1.25	445-2323-1-ND	2.08	12.30	35.48	445-2323-2-ND	2,000	34.00/M	C2012C0G2A332J
		100	4700pF	±5%	1.25	445-2324-1-ND	2.40	14.19	40.93	445-2324-2-ND	2,000	39.00/M	C2012C0G2A472J
		50	100pF	±5%	0.6	445-1329-1-ND	1.09	6.42	18.51	445-1329-2-ND	4,000	17.77/M	C2012C0G1H101J
		50	1000pF	±5%	0.6	445-1330-1-ND	2.13	12.61	36.38	445-1330-2-ND	4,000	34.92/M	C2012C0G1H102J
		50	1200pF	±5%	0.6	445-2681-1-ND	1.54	9.10	26.25	445-2681-2-ND	4,000	25.00/M	C2012C0G1H122J
		50	1500pF	±5%	0.6	445-1331-1-ND	1.55	9.15	26.38	445-1331-2-ND	4,000	25.33/M	C2012C0G1H152J
		50	1800pF	±5%	0.6	445-2682-1-ND	1.87	11.05	31.88	445-2682-2-ND	4,000	31.00/M	C2012C0G1H182J
		50	2200pF	±5%	0.6	445-1332-1-ND	1.97	11.67	33.66	445-1332-2-ND	4,000	32.31/M	C2012C0G1H222J
		50	2700pF	±5%	0.6	445-1600-1-ND	2.75	16.25	46.88	445-1600-2-ND	2,000	45.00/M	C2012C0G1H272J
		50	3300pF	±5%	0.6	445-1333-1-ND	2.75	16.25	46.88	445-1333-2-ND	2,000	45.00/M	C2012C0G1H332J
		50	3900pF	±5%	0.85	445-2683-1-ND	3.30	19.50	56.25	445-2683-2-ND	4,000	54.00/M	C2012C0G1H392J
		50	4700pF	±5%	0.85	445-1334-1-ND	3.30	19.50	56.25	445-1334-2-ND	4,000	54.00/M	C2012C0G1H472J
		50	5600pF	±5%	0.85	445-2684-1-ND	3.85	22.75	65.63	445-2684-2-ND	4,000	63.00/M	C2012C0G1H562J
		50	6800pF	±5%	1.25	445-1335-1-ND	3.85	22.75	65.63	445-1335-2-ND	2,000	63.00/M	C2012C0G1H682J
		50	8200pF	±5%	1.25	445-2685-1-ND	4.40	26.00	75.00	445-2685-2-ND	2,000	72.00/M	C2012C0G1H822J
		50	10000pF	±5%	1.25	445-1336-1-ND	7.47	44.14	127.31	445-1336-2-ND	2,000	122.22/M	C2012C0G1H103J
		25	3900pF	±5%	0.6	445-2676-1-ND	3.30	19.50	56.25	445-2676-2-ND	4,000	54.00/M	C2012C0G1E392J
		25	4700pF	±5%	0.6	445-2677-1-ND	3.30	19.50	56.25	445-2677-2-ND	4,000	54.00/M	C2012C0G1E472J
		25	5600pF	±5%	0.6	445-2678-1-ND	3.85	22.75	65.63	445-2678-2-ND	4,000	63.00/M	C2012C0G1E562J

(Continued)

Case		WV			Dim. T	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		TDK
Size	Type	DC	Capacitance	Tolerance	(mm)	Part No.	10	100	500	Part No.	Qty.	Pricing	Part No.
0805	C0G (NP0)	25	6800pF	±5%	0.6	445-2679-1-ND	3.85	22.75	65.63	445-2679-2-ND	4,000	63.00/M	C2012C0G1E682J
		25	8200pF	±5%	0.6	445-2680-1-ND	4.40	26.00	75.00	445-2680-2-ND	4,000	72.00/M	C2012C0G1E822J
		25	10000pF	±5%	0.6	445-2672-1-ND	4.40	26.00	75.00	445-2672-2-ND	4,000	72.00/M	C2012C0G1E103J
		25	15000pF	±5%	0.85	445-2673-1-ND	6.60	39.00	112.50	445-2673-2-ND	4,000	108.00/M	C2012C0G1E153J
		25	22000pF	±5%	1.25	445-2674-1-ND	6.60	39.00	112.50	445-2674-2-ND	2,000	108.00/M	C2012C0G1E223J
		25	33000pF	±5%	1.25	445-2675-1-ND	8.80	52.00	150.00	445-2675-2-ND	2,000	144.00/M	C2012C0G1E333J
	X7R	250	1000pF	±10%	0.85	445-2277-1-ND	1.28	7.57	21.83	445-2277-2-ND	4,000	21.00/M	C2012X7R2E102K
		250	2200pF	±10%	0.85	445-2278-1-ND	1.60	9.46	27.28	445-2278-2-ND	4,000	26.00/M	C2012X7R2E222K
		250	4700pF	±10%	0.85	445-2279-1-ND	1.60	9.46	27.28	445-2279-2-ND	4,000	26.00/M	C2012X7R2E472K
		250	10000pF	±10%	1.25	445-2280-1-ND	2.40	14.19	40.93	445-2280-2-ND	2,000	39.00/M	C2012X7R2E103K
		250	22000pF	±10%	1.25	445-2281-1-ND	2.40	14.19	40.93	445-2281-2-ND	2,000	39.00/M	C2012X7R2E223K
		100	1000pF	±10%	0.85	445-1337-1-ND	1.25	7.38	21.28	445-1337-2-ND	4,000	20.43/M	C2012X7R2A102K
		100	1000pF	±20%	0.85	445-1338-1-ND	.91	5.40	15.56	445-1338-2-ND	4,000	14.94/M	C2012X7R2A102M
		100	2200pF	±10%	0.85	445-1339-1-ND	.88	5.20	15.00	445-1339-2-ND	4,000	14.40/M	C2012X7R2A222K
		100	2200pF	±20%	0.85	445-1340-1-ND	1.15	6.81	19.65	445-1340-2-ND	4,000	18.87/M	C2012X7R2A222M
		100	4700pF	±10%	0.85	445-1341-1-ND	.99	5.85	16.88	445-1341-2-ND	4,000	16.20/M	C2012X7R2A472K
		100	4700pF	±20%	0.85	445-1342-1-ND	1.19	7.02	20.25	445-1342-2-ND	4,000	19.44/M	C2012X7R2A472M
		100	10000pF	±10%	0.85	445-1343-1-ND	1.25	7.38	21.28	445-1343-2-ND	4,000	20.43/M	C2012X7R2A103K
		100	10000pF	±20%	0.85	445-1344-1-ND	1.16	6.83	19.69	445-1344-2-ND	4,000	18.90/M	C2012X7R2A103M
		100	22000pF	±10%	1.25	445-1345-1-ND	1.44	8.52	24.56	445-1345-2-ND	2,000	23.58/M	C2012X7R2A223K
		100	22000pF	±20%	1.25	445-1346-1-ND	1.32	7.80	22.50	445-1346-2-ND	2,000	21.60/M	C2012X7R2A223M
		100	47000pF	±10%	1.25	445-2276-1-ND	3.20	18.92	54.56	445-2276-2-ND	2,000	52.00/M	C2012X7R2A473K
		100	0.1µF	±10%	1.25	445-1418-1-ND	4.48	26.48	76.39	445-1418-2-ND	2,000	73.33/M	C2012X7R2A104K
		50	1000pF	±10%	0.6	445-1347-1-ND	.83	4.90	14.14	445-1347-2-ND	4,000	13.58/M	C2012X7R1H102K
		50	10000pF	±10%	0.6	445-1348-1-ND	.75	4.41	12.73	445-1348-2-ND	4,000	12.23/M	C2012X7R1H103K
		50	0.1µF	±10%	0.85	445-1349-1-ND	1.58	9.33	26.93	445-1349-2-ND	2,000	25.85/M	C2012X7R1H104K
		50	0.22µF	±10%	1.25	445-1350-1-ND	2.29	13.56	39.11	445-1350-2-ND	2,000	37.55/M	C2012X7R1H224K
		25	0.1µF	±10%	0.85	445-1351-1-ND	1.58	9.33	26.93	445-1351-2-ND	2,000	25.85/M	C2012X7R1E104K
		25	0.22µF	±10%	1.25	445-1352-1-ND	2.29	13.56	39.11	445-1352-2-ND	2,000	37.55/M	C2012X7R1E224K
		25	0.47µF	±10%	1.25	445-1353-1-ND	3.41	20.18	58.20	445-1353-2-ND	2,000	55.87/M	C2012X7R1E474K
		25	1.0µF	±10%	1.25	445-1354-1-ND	5.94	35.10	101.25	445-1354-2-ND	2,000	97.20/M	C2012X7R1E105K
		16	0.22µF	±10%	1.25	445-1355-1-ND	2.29	13.56	39.11	445-1355-2-ND	2,000	37.55/M	C2012X7R1C224K
		16	0.33µF	±10%	1.25	445-1356-1-ND	3.20	18.92	54.56	445-1356-2-ND	2,000	52.38/M	C2012X7R1C334K
		16	0.47µF	±10%	1.25	445-1357-1-ND	3.41	20.18	58.20	445-1357-2-ND	2,000	55.87/M	C2012X7R1C474K
		16	1.0µF	±10%	1.25	445-1358-1-ND	3.41	20.15	58.13	445-1358-2-ND	2,000	55.80/M	C2012X7R1C105K
		16	2.2µF	±10%	1.25	445-1420-1-ND	5.98	35.35	101.98	445-1420-2-ND	2,000	97.90/M	C2012X7R1C225K
		10	1.0µF	±10%	0.85	445-1359-1-ND	3.41	20.15	58.13	445-1359-2-ND	2,000	55.80/M	C2012X7R1A105K
		10	4.7µF	±20%	1.25	445-1605-1-ND	6.00	35.43	102.19	445-1605-2-ND	2,000	98.10/M	C2012X7R1A475M
	X5R	25	1.0µF	±10%	1.25	445-1419-1-ND	4.01	23.67	68.27	445-1419-2-ND	2,000	65.54/M	C2012X5R1E105K
		10	1.0µF	±10%	0.85	445-1587-1-ND	3.41	20.15	58.13	445-1587-2-ND	4,000	55.80/M	C2012X5R1A105K/0.85
		10	2.2µF	±10%	0.85	445-1588-1-ND	7.48	44.20	127.50	445-1588-2-ND	4,000	122.40/M	C2012X5R1A225K/0.85
		6.3	4.7µF	±10%	0.85	445-3439-1-ND **NEW!**	5.50	32.50	93.75	445-3439-2-ND **NEW!**	4,000	90.00/M	C2012X5R0J475K/0.85
		6.3	4.7µF	±20%	0.85	445-3440-1-ND **NEW!**	5.50	32.50	93.75	445-3440-2-ND **NEW!**	4,000	90.00/M	C2012X5R0J475M/0.85
		6.3	4.7µF	±10%	1.25	445-1421-1-ND	5.50	32.50	93.75	445-1421-2-ND	2,000	90.00/M	C2012X5R0J475K
		6.3	4.7µF	±20%	1.25	445-1362-1-ND	5.50	32.50	93.75	445-1362-2-ND	2,000	90.00/M	C2012X5R0J475M
		6.3	10µF	±20%	1.25	445-1363-1-ND	7.02	41.47	119.63	445-1363-2-ND	2,000	114.84/M	C2012X5R0J106M
		6.3	22µF	±20%	1.25	445-1422-1-ND	9.90	58.50	168.75	445-1422-2-ND	2,000	162.00/M	C2012X5R0J226M
	Y5V	50	0.10µF	+80/-20%	0.60	445-3462-1-ND **NEW!**	.66	3.90	11.25	445-3462-2-ND **NEW!**	4,000	11.00/M	C2012Y5V1H104Z/0.60
		50	1.0µF	+80/-20%	0.85	445-3463-1-ND **NEW!**	.99	5.85	16.88	445-3463-2-ND **NEW!**	4,000	16.00/M	C2012Y5V1H105Z/0.85
		50	1.0µF	+80/-20%	1.25	445-1364-1-ND	.99	5.85	16.88	445-1364-2-ND	2,000	16.20/M	C2012Y5V1H105Z
		50	2.2µF	+80/-20%	1.25	445-3464-1-ND **NEW!**	3.30	19.50	56.25	445-3464-2-ND **NEW!**	2,000	54.00/M	C2012Y5V1H225Z
		25	1.0µF	+80/-20%	0.85	445-1590-1-ND	.99	5.85	16.88	445-1590-2-ND	4,000	16.20/M	C2012Y5V1E105Z/0.85
		25	2.2µF	+80/-20%	1.25	445-1366-1-ND	2.20	13.00	37.50	445-1366-2-ND	2,000	36.00/M	C2012Y5V1E225Z
		25	4.7µF	+80/-20%	1.25	445-3461-1-ND **NEW!**	2.75	16.25	46.88	445-3461-2-ND **NEW!**	2,000	45.00/M	C2012Y5V1E475Z
		16	1.0µF	+80/-20%	0.85	445-1589-1-ND	.99	5.85	16.88	445-1589-2-ND	4,000	16.20/M	C2012Y5V1C105Z/0.85
		16	2.2µF	+80/-20%	0.85	445-3459-1-ND **NEW!**	1.32	7.80	22.50	445-3459-2-ND **NEW!**	4,000	22.00/M	C2012Y5V1C225Z/0.85
		16	2.2µF	+80/-20%	1.25	445-1368-1-ND	1.32	7.80	22.50	445-1368-2-ND	2,000	21.60/M	C2012Y5V1C225Z
		16	4.7µF	+80/-20%	0.85	445-3460-1-ND **NEW!**	2.75	16.25	46.88	445-3460-2-ND **NEW!**	4,000	45.00/M	C2012Y5V1C475Z/0.85
		16	4.7µF	+80/-20%	1.25	445-1369-1-ND	2.75	16.25	46.88	445-1369-2-ND	2,000	45.00/M	C2012Y5V1C475Z
		16	10µF	+80/-20%	1.25	445-3458-1-ND **NEW!**	2.97	17.55	50.63	445-3458-2-ND **NEW!**	2,000	49.00/M	C2012Y5V1C106Z
		10	4.7µF	+80/-20%	0.85	445-3457-1-ND **NEW!**	1.27	7.48	21.56	445-3457-2-ND **NEW!**	4,000	21.00/M	C2012Y5V1A475Z/0.85
		10	4.7µF	+80/-20%	1.25	445-1370-1-ND	1.27	7.48	21.56	445-1370-2-ND	2,000	20.70/M	C2012Y5V1A475Z
		10	10µF	+80/-20%	1.25	445-1371-1-ND	2.53	14.95	43.13	445-1371-2-ND	2,000	41.40/M	C2012Y5V1A106Z
		6.3	10µF	+80/-20%	1.25	445-1372-1-ND	1.76	10.40	30.00	445-1372-2-ND	2,000	28.80/M	C2012Y5V0J106Z
		6.3	22µF	+80/-20%	1.25	445-1373-1-ND	5.50	32.50	93.75	445-1373-2-ND	2,000	90.00/M	C2012Y5V0J226Z
	X8R	100	22000pF	±10%	1.25	445-2515-1-ND	2.48	14.63	42.19	445-2515-2-ND	2,000	41.00/M	C2012X8R2A223K
		50	68000pF	±10%	1.45	445-3431-1-ND **NEW!**	2.20	13.00	37.50	445-3431-2-ND **NEW!**	2,000	36.00/M	C2012X8R1H683K
		50	0.10µF	±10%	1.25	445-2514-1-ND	1.65	9.75	28.13	445-2514-2-ND	2,000	27.00/M	C2012X8R1H104K
		25	0.15µF	±10%	1.45	445-3430-1-ND **NEW!**	5.50	32.50	93.75	445-3430-2-ND **NEW!**	4,000	90.00/M	C2012X8R1E154K
		25	0.22µF	±10%	1.25	445-2512-1-ND	3.30	19.50	56.25	445-2512-2-ND	2,000	54.00/M	C2012X8R1E224K
		25	0.33µF	±10%	1.25	445-2513-1-ND	3.30	19.50	56.25	445-2513-2-ND	2,000	54.00/M	C2012X8R1E334K
	SL	10	33000pF	±5%	0.6	445-2687-1-ND	11.00	65.00	187.50	445-2687-2-ND	4,000	180.00/M	C2012SL1A333J
		10	47000pF	±5%	0.85	445-2688-1-ND	11.00	65.00	187.50	445-2688-2-ND	4,000	180.00/M	C2012SL1A473J
		10	68000pF	±5%	1.25	445-2689-1-ND	13.20	78.00	225.00	445-2689-2-ND	2,000	216.00/M	C2012SL1A683J
		10	0.1µF	±5%	1.25	445-2686-1-ND	13.20	78.00	225.00	445-2686-2-ND	2,000	216.00/M	C2012SL1A104J
1206	C0G (NP0)	630	100pF	±5%	0.6	445-2336-1-ND	3.20	18.92	54.56	445-2336-2-ND	4,000	52.00/M	C3216C0G2J101J
		630	150pF	±5%	0.6	445-2337-1-ND	3.20	18.92	54.56	445-2337-2-ND	4,000	52.00/M	C3216C0G2J151J
		630	220pF	±5%	0.6	445-2338-1-ND	3.20	18.92	54.56	445-2338-2-ND	4,000	52.00/M	C3216C0G2J221J
		630	330pF	±5%	0.6	445-2339-1-ND	3.20	18.92	54.56	445-2339-2-ND	4,000	52.00/M	C3216C0G2J331J
		630	470pF	±5%	0.85	445-2340-1-ND	3.20	18.92	54.56	445-2340-2-ND	4,000	52.00/M	C3216C0G2J471J
		630	680pF	±5%	0.85	445-2341-1-ND	3.20	18.92	54.56	445-2341-2-ND	4,000	52.00/M	C3216C0G2J681J
		630	1000pF	±5%	0.85	445-2342-1-ND	3.20	18.92	54.56	445-2342-2-ND	4,000	52.00/M	C3216C0G2J102J
		630	1500pF	±5%	1.15	445-2343-1-ND	4.00	23.65	68.21	445-2343-2-ND	2,000	65.00/M	C3216C0G2J152J
		630	2200pF	±5%	1.15	445-2344-1-ND	4.80	28.37	81.84	445-2344-2-ND	2,000	79.00/M	C3216C0G2J222J
		630	3300pF	±5%	1.6	445-2345-1-ND	5.60	33.10	95.49	445-2345-2-ND	2,000	92.00/M	C3216C0G2J332J
		250	3300pF	±5%	0.85	445-2332-1-ND	3.20	18.92	54.56	445-2332-2-ND	4,000	52.00/M	C3216C0G2E332J
		250	4700pF	±5%	1.15	445-2333-1-ND	4.80	28.37	81.84	445-2333-2-ND	2,000	79.00/M	C3216C0G2E472J
		250	6800pF	±5%	1.6	445-2334-1-ND	6.40	37.83	109.13	445-2334-2-ND	2,000	105.00/M	C3216C0G2E682J
		250	8200pF	±5%	1.6	445-2335-1-ND	7.20	42.56	122.78	445-2335-2-ND	2,000	118.00/M	C3216C0G2E822J
		100	4700pF	±5%	0.85	445-2329-1-ND	4.00	23.65	68.21	445-2329-2-ND	4,000	65.00/M	C3216C0G2A472J
		100	6800pF	±5%	1.15	445-2330-1-ND	5.60	33.10	95.49	445-2330-2-ND	2,000	92.00/M	C3216C0G2A682J
		100	10000pF	±5%	1.15	445-2331-1-ND	6.40	37.83	109.13	445-2331-2-ND	2,000	105.00/M	C3216C0G2A103J
		50	4700pF	±5%	0.6	445-1374-1-ND	4.27	25.22	72.75	445-1374-2-ND	4,000	69.84/M	C3216C0G1H472J
		50	10000pF	±5%	0.85	445-1375-1-ND	5.50	32.50	93.75	445-1375-2-ND	2,000	90.00/M	C3216C0G1H103J
		50	15000pF	±5%	1.15	445-2698-1-ND	8.80	52.00	150.00	445-2698-2-ND	2,000	144.00/M	C3216C0G1H153J
		50	22000pF	±5%	1.15	445-1376-1-ND	8.80	52.00	150.00	445-1376-2-ND	2,000	144.00/M	C3216C0G1H223J
		50	33000pF	±5%	1.6	445-2699-1-ND	12.10	71.50	206.25	445-2699-2-ND	2,000	198.00/M	C3216C0G1H333J
		25	8200pF	±5%	0.6	445-2697-1-ND	5.50	32.50	93.75	445-2697-2-ND	4,000	90.00/M	C3216C0G1E822J
		25	10000pF	±5%	0.6	445-2690-1-ND	5.50	32.50	93.75	445-2690-2-ND	4,000	90.00/M	C3216C0G1E103J
		25	15000pF	±5%	0.6	445-2692-1-ND	8.80	52.00	150.00	445-2692-2-ND	4,000	144.00/M	C3216C0G1E153J
		25	22000pF	±5%	0.6	445-2693-1-ND	8.80	52.00	150.00	445-2693-2-ND	4,000	144.00/M	C3216C0G1E223J
		25	33000pF	±5%	0.85	445-2694-1-ND	12.10	71.50	206.25	445-2694-2-ND	4,000	198.00/M	C3216C0G1E333J
		25	47000pF	±5%	1.15	445-2695-1-ND	14.30	84.50	243.75	445-2695-2-ND	2,000	234.00/M	C3216C0G1E473J
		25	68000pF	±5%	1.6	445-2696-1-ND	14.30	84.50	243.75	445-2696-2-ND	2,000	234.00/M	C3216C0G1E683J

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
1206	X7R	630	1000pF	±10%	1.15	445-2288-1-ND	4.00	23.65	68.21	445-2288-2-ND	2,000	65.00/M	C3216X7R2J102K
		630	2200pF	±10%	1.15	445-2289-1-ND	4.00	23.65	68.21	445-2289-2-ND	2,000	65.00/M	C3216X7R2J222K
		630	4700pF	±10%	1.15	445-2290-1-ND	4.00	23.65	68.21	445-2290-2-ND	2,000	65.00/M	C3216X7R2J472K
		630	10000pF	±10%	1.15	445-2291-1-ND	4.80	28.37	81.84	445-2291-2-ND	2,000	79.00/M	C3216X7R2J103K
		630	22000pF	±10%	1.3	445-2292-1-ND	6.40	37.83	109.13	445-2292-2-ND	2,000	105.00/M	C3216X7R2J223K
		250	22000pF	±10%	1.15	445-2285-1-ND	3.20	18.92	54.56	445-2285-2-ND	2,000	52.00/M	C3216X7R2E223K
		250	47000pF	±10%	1.6	445-2286-1-ND	4.00	23.65	68.21	445-2286-2-ND	2,000	65.00/M	C3216X7R2E473K
		250	0.1µF	±10%	1.6	445-2287-1-ND	4.80	28.37	81.84	445-2287-2-ND	2,000	79.00/M	C3216X7R2E104K
		100	47000pF	±10%	1.15	445-2282-1-ND	4.00	23.65	68.21	445-2282-2-ND	2,000	65.00/M	C3216X7R2A473K
		100	0.1µF	±10%	1.6	445-1377-1-ND	6.94	40.98	118.22	445-1377-2-ND	2,000	113.49/M	C3216X7R2A104K
		100	0.1µF	±20%	1.6	445-1378-1-ND	6.50	38.41	110.79	445-1378-2-ND	2,000	106.36/M	C3216X7R2A104M
		100	0.22µF	±10%	1.15	445-2283-1-ND	6.40	37.83	109.13	445-2283-2-ND	2,000	105.00/M	C3216X7R2A224K
		100	0.47µF	±10%	1.6	445-2284-1-ND	8.00	47.29	136.41	445-2284-2-ND	2,000	131.00/M	C3216X7R2A474K
		50	0.22µF	±10%	1.6	445-1379-1-ND	3.52	20.81	60.02	445-1379-2-ND	2,000	57.62/M	C3216X7R1H224K
		50	0.47µF	±10%	1.6	445-1380-1-ND	4.32	25.54	73.67	445-1380-2-ND	2,000	70.72/M	C3216X7R1H474K
		50	1.0µF	±10%	1.6	445-1423-1-ND	4.11	24.31	70.13	445-1423-2-ND	2,000	67.32/M	C3216X7R1H105K
		25	1.0µF	±10%	0.85	445-1592-1-ND	4.11	24.31	70.13	445-1592-2-ND	4,000	67.32/M	C3216X7R1E105K/0.85
		25	2.2µF	±10%	1.6	445-1382-1-ND	6.63	39.17	112.99	445-1382-2-ND	2,000	108.47/M	C3216X7R1E225K
		25	4.7µF	±10%	1.6	445-1606-1-ND	5.99	35.37	102.04	445-1606-2-ND	2,000	97.96/M	C3216X7R1E475K
		25	4.7µF	±20%	1.6	445-1424-1-ND	12.56	74.21	214.07	445-1424-2-ND	2,000	205.51/M	C3216X7R1E475M
		16	1.0µF	±10%	0.85	445-1591-1-ND	3.85	22.75	65.63	445-1591-2-ND	4,000	63.00/M	C3216X7R1C105K/0.85
		16	2.2µF	±10%	1.6	445-1384-1-ND	7.98	47.16	136.05	445-1384-2-ND	2,000	130.61/M	C3216X7R1C225K
		16	4.7µF	±10%	1.6	445-1385-1-ND	12.77	75.46	217.67	445-1385-2-ND	2,000	208.96/M	C3216X7R1C475K
		16	4.7µF	±20%	1.6	445-1425-1-ND	11.85	70.01	201.96	445-1425-2-ND	2,000	193.88/M	C3216X7R1C475M
		16	10µF	±20%	1.6	445-1601-1-ND	8.45	49.93	144.04	445-1601-2-ND	2,000	138.28/M	C3216X7R1C106M
		10	10µF	±20%	1.6	445-1602-1-ND	14.85	87.75	253.13	445-1602-2-ND	2,000	243.00/M	C3216X7R1A106M
	X5R	16	10µF	±20%	1.6	445-1426-1-ND	12.67	74.88	216.00	445-1426-2-ND	2,000	207.36/M	C3216X5R1C106M
		10	4.7µF	±10%	1.6	445-1386-1-ND	10.46	61.79	178.24	445-1386-2-ND	2,000	171.11/M	C3216X5R1A475K
		10	10µF	±20%	1.6	445-1387-1-ND	4.95	29.25	84.38	445-1387-2-ND	2,000	81.00/M	C3216X5R1A106M
		6.3	10µF	±10%	1.6	445-1388-1-ND	4.95	29.25	84.38	445-1388-2-ND	2,000	81.00/M	C3216X5R0J106K
		6.3	10µF	±20%	1.6	445-1389-1-ND	4.95	29.25	84.38	445-1389-2-ND	2,000	81.00/M	C3216X5R0J106M
		6.3	22µF	±20%	1.6	445-1427-1-ND	19.80	117.00	337.50	445-1427-2-ND	2,000	324.00/M	C3216X5R0J226M
		6.3	47µF	±20%	1.6	445-1428-1-ND	39.60	234.00	675.00	445-1428-2-ND	2,000	648.00/M	C3216X5R0J476M
	Y5V	50	4.7µF	+80/-20%	1.6	445-3472-1-ND ***NEW!***	3.85	22.75	65.63	445-3472-2-ND ***NEW!***	2,000	63.00/M	C3216Y5V1H475Z
		25	4.7µF	+80/-20%	0.85	445-3470-1-ND ***NEW!***	3.30	19.50	56.25	445-3470-2-ND ***NEW!***	4,000	54.00/M	C3216Y5V1E475Z/0.85
		25	4.7µF	+80/-20%	1.15	445-3471-1-ND ***NEW!***	3.30	19.50	56.25	445-3471-2-ND ***NEW!***	2,000	54.00/M	C3216Y5V1E475Z/1.15
		25	10µF	+80/-20%	1.6	445-3469-1-ND ***NEW!***	3.30	19.50	56.25	445-3469-2-ND ***NEW!***	2,000	54.00/M	C3216Y5V1E106Z
		16	4.7µF	+80/-20%	0.85	445-1594-1-ND	2.97	17.55	50.63	445-1594-2-ND	4,000	48.60/M	C3216Y5V1C475Z/0.85
		16	4.7µF	+80/-20%	1.15	445-3467-1-ND ***NEW!***	2.97	17.55	50.63	445-3467-2-ND ***NEW!***	2,000	49.00/M	C3216Y5V1C475Z/1.15
		16	4.7µF	+80/-20%	1.30	445-3468-1-ND ***NEW!***	2.97	17.55	50.63	445-3468-2-ND ***NEW!***	2,000	49.00/M	C3216Y5V1C475Z/1.30
		16	10µF	+80/-20%	1.6	445-1391-1-ND	2.42	14.30	41.25	445-1391-2-ND	2,000	39.60/M	C3216Y5V1C106Z
		16	22µF	+80/-20%	1.6	445-3466-1-ND ***NEW!***	7.15	42.25	121.88	445-3466-2-ND ***NEW!***	2,000	117.00/M	C3216Y5V1C226Z
		10	10µF	+80/-20%	0.85	445-1593-1-ND	1.76	10.40	30.00	445-1593-2-ND	4,000	28.80/M	C3216Y5V1A106Z/0.85
		10	10µF	+80/-20%	1.15	445-3465-1-ND ***NEW!***	1.76	10.40	30.00	445-3465-2-ND ***NEW!***	2,000	29.00/M	C3216Y5V1A106Z/1.15
		10	22µF	+80/-20%	1.6	445-1393-1-ND	6.05	35.75	103.13	445-1393-2-ND	2,000	99.00/M	C3216Y5V1A226Z
		6.3	47µF	+80/-20%	1.6	445-1394-1-ND	22.00	130.00	375.00	445-1394-2-ND	2,000	360.00/M	C3216Y5V0J476Z
	X8R	100	33000pF	±10%	1.8	445-3436-1-ND ***NEW!***	6.60	39.00	112.50	445-3436-2-ND ***NEW!***	4,000	108.00/M	C3216X8R2A333K
		100	68000pF	±10%	1.8	445-3437-1-ND ***NEW!***	6.60	39.00	112.50	445-3437-2-ND ***NEW!***	2,000	108.00/M	C3216X8R2A683K
		100	0.047µF	±10%	0.85	445-2520-1-ND	6.60	39.00	112.50	445-2520-2-ND	4,000	108.00/M	C3216X8R2A473K
		100	0.10µF	±10%	1.15	445-2521-1-ND	6.60	39.00	112.50	445-2521-2-ND	2,000	108.00/M	C3216X8R2A104K
		100	0.15µF	±10%	1.6	445-2522-1-ND	6.60	39.00	112.50	445-2522-2-ND	2,000	108.00/M	C3216X8R2A154K
		50	0.15µF	±10%	1.8	445-3434-1-ND ***NEW!***	8.80	52.00	150.00	445-3434-2-ND ***NEW!***	4,000	144.00/M	C3216X8R1H154K
		50	0.22µF	±10%	1.15	445-2518-1-ND	6.60	39.00	112.50	445-2518-2-ND	2,000	108.00/M	C3216X8R1H224K
		50	0.33µF	±10%	1.8	445-3435-1-ND ***NEW!***	6.60	39.00	112.50	445-3435-2-ND ***NEW!***	2,000	108.00/M	C3216X8R1H334K
		50	0.47µF	±10%	1.6	445-2519-1-ND	6.60	39.00	112.50	445-2519-2-ND	2,000	108.00/M	C3216X8R1H474K
		25	0.33µF	±10%	1.8	445-3432-1-ND ***NEW!***	6.60	39.00	112.50	445-3432-2-ND ***NEW!***	4,000	108.00/M	C3216X8R1E334K
		25	0.47µF	±10%	0.85	445-2516-1-ND	6.60	39.00	112.50	445-2516-2-ND	4,000	108.00/M	C3216X8R1E474K
		25	0.68µF	±10%	1.8	445-3433-1-ND ***NEW!***	6.60	39.00	112.50	445-3433-2-ND ***NEW!***	2,000	108.00/M	C3216X8R1E684K
		25	1.0µF	±10%	1.6	445-2517-1-ND	6.60	39.00	112.50	445-2517-2-ND	2,000	108.00/M	C3216X8R1E105K
	SL	10	0.15µF	±5%	1.15	445-2700-1-ND	16.50	97.50	281.25	445-2700-2-ND	2,000	270.00/M	C3216SL1A154J
		10	0.22µF	±5%	1.6	445-2701-1-ND	16.50	97.50	281.25	445-2701-2-ND	2,000	270.00/M	C3216SL1A224J
1210	C0G (NP0)	630	4700pF	±5%	1.6	445-2352-1-ND	24.01	141.86	409.22	445-2352-2-ND	2,000	393.00/M	C3225C0G2J472J
		630	6800pF	±5%	2.0	445-2353-1-ND	24.01	141.86	409.22	445-2353-2-ND	1,000	393.00	C3225C0G2J682J
		250	10000pF	±5%	1.6	445-2350-1-ND	32.01	189.15	545.63	445-2350-2-ND	2,000	524.00/M	C3225C0G2E103J
		250	15000pF	±5%	2.0	445-2351-1-ND	32.01	189.15	545.63	445-2351-2-ND	1,000	524.00	C3225C0G2E153J
		100	15000pF	±5%	1.25	445-2346-1-ND	24.01	141.86	409.22	445-2346-2-ND	2,000	393.00/M	C3225C0G2A153J
		100	22000pF	±5%	1.6	445-2347-1-ND	24.01	141.86	409.22	445-2347-2-ND	2,000	393.00/M	C3225C0G2A223J
		100	33000pF	±5%	2.0	445-2348-1-ND	32.01	189.15	545.63	445-2348-2-ND	1,000	524.00	C3225C0G2A333J
		100	47000pF	±5%	2.3	445-2349-1-ND	32.01	189.15	545.63	445-2349-2-ND	1,000	524.00	C3225C0G2A473J
		50	22000pF	±5%	1.25	445-2703-1-ND	22.00	130.00	375.00	445-2703-2-ND	2,000	360.00/M	C3225C0G1H223J
		50	33000pF	±5%	1.25	445-2704-1-ND	27.50	162.50	468.75	445-2704-2-ND	2,000	450.00/M	C3225C0G1H333J
		50	47000pF	±5%	2.0	445-2705-1-ND	27.50	162.50	468.75	445-2705-2-ND	1,000	450.00	C3225C0G1H473J
		50	68000pF	±5%	2.0	445-2706-1-ND	33.00	195.00	562.50	445-2706-2-ND	1,000	540.00	C3225C0G1H683J
		50	0.1µF	±5%	2.5	445-2702-1-ND	33.00	195.00	562.50	445-2702-2-ND	1,000	540.00	C3225C0G1H104J
	X7R	630	47000pF	±10%	2.0	445-2297-1-ND	12.80	75.66	218.25	445-2297-2-ND	1,000	210.00	C3225X7R2J473K
		250	0.1µF	±10%	2.0	445-2295-1-ND	9.60	56.75	163.69	445-2295-2-ND	1,000	157.00	C3225X7R2E104K
		250	0.22µF	±10%	2.0	445-2296-1-ND	12.80	75.66	218.25	445-2296-2-ND	1,000	210.00	C3225X7R2E224K
		100	0.47µF	±20%	2.0	445-1395-1-ND	21.13	124.84	360.11	445-1395-2-ND	1,000	345.71	C3225X7R2A474M
		100	0.47µF	±10%	2.0	445-2293-1-ND	12.80	75.66	218.25	445-2293-2-ND	1,000	210.00	C3225X7R2A474K
		100	1.0µF	±20%	2.0	445-1429-1-ND	16.50	97.50	281.25	445-1429-2-ND	1,000	270.00	C3225X7R2A105M
		100	1.0µF	±10%	2.0	445-2294-1-ND	16.50	97.50	281.25	445-2294-2-ND	1,000	270.00	C3225X7R2A105K
		50	1.0µF	±10%	1.6	445-1430-1-ND	10.89	64.35	185.63	445-1430-2-ND	1,000	178.20	C3225X7R1H105K
		50	1.0µF	±20%	1.6	445-1396-1-ND	10.67	63.05	181.88	445-1396-2-ND	1,000	174.60	C3225X7R1H105M
		50	2.2µF	±10%	2.5	445-1431-1-ND	11.88	70.20	202.50	445-1431-2-ND	1,000	194.40	C3225X7R1H225K
		50	3.3µF	±20%	2.5	445-1432-1-ND	14.85	87.75	253.13	445-1432-2-ND	1,000	243.00	C3225X7R1H335M
		25	2.2µF	±20%	1.6	445-1397-1-ND	17.93	105.92	305.55	445-1397-2-ND	1,000	293.33	C3225X7R1E225M
		25	4.7µF	±10%	2.0	445-1433-1-ND	21.56	127.41	367.54	445-1433-2-ND	1,000	352.84	C3225X7R1E475K
		25	4.7µF	±20%	2.0	445-1398-1-ND	21.56	127.41	367.54	445-1398-2-ND	1,000	352.84	C3225X7R1E475M
		25	10µF	±20%	2.5	445-1434-1-ND	23.96	141.57	408.38	445-1434-2-ND	1,000	392.04	C3225X7R1E106M
		16	4.7µF	±10%	1.6	445-1435-1-ND	19.38	114.54	330.41	445-1435-2-ND	2,000	317.20/M	C3225X7R1C475K
		16	10µF	±20%	2.0	445-1399-1-ND	16.42	97.05	279.94	445-1399-2-ND	1,000	268.74	C3225X7R1C106M
	X5R	16	10µF	±20%	2.0	445-1400-1-ND	16.42	97.05	279.94	445-1400-2-ND	1,000	268.74	C3225X5R1C106M
		16	22µF	±20%	2.5	445-1436-1-ND	14.85	87.75	253.13	445-1436-2-ND	1,000	243.00	C3225X5R1C226M
		10	10µF	±10%	2.0	445-1401-1-ND	17.33	102.38	295.31	445-1401-2-ND	1,000	283.50	C3225X5R1A106K
		10	10µF	±20%	2.0	445-1402-1-ND	18.15	107.25	309.38	445-1402-2-ND	1,000	297.00	C3225X5R1A106M
		10	22µF	±20%	2.3	445-1403-1-ND	33.00	195.00	562.50	445-1403-2-ND	1,000	540.00	C3225X5R1A226M
		6.3	22µF	±20%	2.0	445-1595-1-ND	27.50	162.50	468.75	445-1595-2-ND	1,000	450.00	C3225X5R0J226M/2.00
		6.3	47µF	±20%	2.5	445-1405-1-ND	44.00	260.00	750.00	445-1405-2-ND	1,000	720.00	C3225X5R0J476M
		6.3	100µF	±20%	2.5	445-1437-1-ND	79.20	468.00	1350.00	445-1437-2-ND	1,000	1296.00	C3225X5R0J107M
	Y5V	50	4.7µF	+80/-20%	2.3	445-3480-1-ND ***NEW!***	6.05	35.75	103.13	445-3480-2-ND ***NEW!***	2,000	99.00/M	C3225Y5V1H475Z
		50	10µF	+80/-20%	2.3	445-3479-1-ND ***NEW!***	9.90	58.50	168.75	445-3479-2-ND ***NEW!***	2,000	162.00/M	C3225Y5V1H106Z
		25	10µF	+80/-20%	1.3	445-3477-1-ND ***NEW!***	6.60	39.00	112.50	445-3477-2-ND ***NEW!***	2,000	108.00/M	C3225Y5V1E106Z/1.30
		25	10µF	+80/-20%	1.6	445-1598-1-ND	6.93	40.95	118.13	445-1598-2-ND	2,000	113.40/M	C3225Y5V1E106Z/1.60

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Multilayer Ceramic Chip Capacitors *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
1210	Y5V	25	22µF	+80/-20%	2.3	445-3478-1-ND ***NEW!***	6.60	39.00	112.50	445-3478-2-ND ***NEW!***	1,000	108.00	C3225Y5V1E226Z
		16	10µF	+80/-20%	1.15	445-1597-1-ND	6.60	39.00	112.50	445-1597-2-ND	2,000	108.00/M	C3225Y5V1C106Z/1.15
		16	10µF	+80/-20%	1.6	445-3473-1-ND ***NEW!***	6.93	40.95	118.13	445-3473-2-ND ***NEW!***	2,000	113.00/M	C3225Y5V1C106Z/1.60
		16	22µF	+80/-20%	1.3	445-3474-1-ND ***NEW!***	5.50	32.50	93.75	445-3474-2-ND ***NEW!***	2,000	90.00/M	C3225Y5V1C226Z/1.30
		16	22µF	+80/-20%	2.0	445-3475-1-ND ***NEW!***	5.83	34.45	99.38	445-3475-2-ND ***NEW!***	1,000	95.00	C3225Y5V1C226Z/2.00
		16	47µF	+80/-20%	2.3	445-3476-1-ND ***NEW!***	22.00	130.00	375.00	445-3476-2-ND ***NEW!***	1,000	360.00	C3225Y5V1C476Z
		10	22µF	+80/-20%	2.0	445-1408-1-ND	23.10	136.50	393.75	—	—	—	C3225Y5V1A226Z
		10	22µF	+80/-20%	1.15	445-1596-1-ND	4.95	29.25	84.38	445-1596-2-ND	2,000	81.00/M	C3225Y5V1A226Z/1.15
		10	47µF	+80/-20%	2.0	445-1409-1-ND	16.50	97.50	281.25	445-1409-2-ND	1,000	270.00	C3225Y5V1A476Z
		6.3	100µF	+80/-20%	2.5	445-1410-1-ND	33.00	195.00	562.50	445-1410-2-ND	1,000	540.00	C3225Y5V0J107Z
	X8R	25	1.5µF	±10%	1.6	445-3438-1-ND ***NEW!***	13.20	78.00	225.00	445-3438-2-ND ***NEW!***	2,000	216.00/M	C3225X8R1E155K
		25	2.2µF	±10%	2.0	445-2523-1-ND	13.20	78.00	225.00	445-2523-2-ND	1,000	216.00	C3225X8R1E225K
		25	3.3µF	±10%	2.5	445-2524-1-ND	13.20	78.00	225.00	445-2524-2-ND	1,000	216.00	C3225X8R1E335K
1808	C0G (NP0)	3000	10pF	±1pF	0.85	445-2363-1-ND	15.68	92.63	267.19	445-2363-2-ND	1,000	257.00	C4520C0G3F100F
		3000	12pF	±10%	0.85	445-2364-1-ND	15.68	92.63	267.19	445-2364-2-ND	1,000	257.00	C4520C0G3F120K
		3000	15pF	±10%	1.1	445-2365-1-ND	15.68	92.63	267.19	445-2365-2-ND	1,000	257.00	C4520C0G3F150K
		3000	18pF	±10%	1.1	445-2366-1-ND	15.68	92.63	267.19	445-2366-2-ND	1,000	257.00	C4520C0G3F180K
		3000	22pF	±10%	1.1	445-2367-1-ND	15.68	92.63	267.19	445-2367-2-ND	1,000	257.00	C4520C0G3F220K
		3000	27pF	±10%	1.6	445-2368-1-ND	15.68	92.63	267.19	445-2368-2-ND	1,000	257.00	C4520C0G3F270K
		3000	33pF	±10%	1.6	445-2369-1-ND	15.68	92.63	267.19	445-2369-2-ND	1,000	257.00	C4520C0G3F330K
		3000	39pF	±10%	1.6	445-2370-1-ND	15.68	92.63	267.19	445-2370-2-ND	1,000	257.00	C4520C0G3F390K
		3000	47pF	±10%	1.6	445-2371-1-ND	15.68	92.63	267.19	445-2371-2-ND	1,000	257.00	C4520C0G3F470K
		3000	56pF	±10%	2.0	445-2372-1-ND	15.68	92.63	267.19	445-2372-2-ND	1,000	257.00	C4520C0G3F560K
		3000	68pF	±10%	2.0	445-2373-1-ND	15.68	92.63	267.19	445-2373-2-ND	1,000	257.00	C4520C0G3F680K
		3000	82pF	±10%	2.0	445-2374-1-ND	15.68	92.63	267.19	445-2374-2-ND	1,000	257.00	C4520C0G3F820K
		3000	100pF	±10%	2.0	445-2375-1-ND	15.68	92.63	267.19	445-2375-2-ND	1,000	257.00	C4520C0G3F101K
	X7R	2000	470pF	±10%	1.3	445-2385-1-ND	18.03	106.52	307.28	445-2385-2-ND	1,000	295.00	C4520X7R3D471K
		2000	1000pF	±10%	1.3	445-2386-1-ND	18.03	106.52	307.28	445-2386-2-ND	1,000	295.00	C4520X7R3D102K
		1000	470pF	±10%	1.3	445-2383-1-ND	18.03	106.52	307.28	445-2383-2-ND	1,000	295.00	C4520X7R3A471K
		1000	1000pF	±10%	1.3	445-2384-1-ND	18.03	106.52	307.28	445-2384-2-ND	1,000	295.00	C4520X7R3A102K
1812	C0G (NP0)	3000	100pF	±10%	1.6	445-2376-1-ND	19.59	115.78	333.99	445-2376-2-ND	1,000	321.00	C4532C0G3F101K
		3000	120pF	±10%	1.6	445-2377-1-ND	19.59	115.78	333.99	445-2377-2-ND	1,000	321.00	C4532C0G3F121K
		3000	150pF	±10%	1.6	445-2378-1-ND	19.59	115.78	333.99	445-2378-2-ND	1,000	321.00	C4532C0G3F151K
		3000	180pF	±10%	1.6	445-2379-1-ND	19.59	115.78	333.99	445-2379-2-ND	1,000	321.00	C4532C0G3F181K
		3000	220pF	±10%	2.0	445-2380-1-ND	20.38	120.41	347.34	445-2380-2-ND	1,000	333.00	C4532C0G3F221K
		3000	270pF	±10%	2.3	445-2381-1-ND	23.51	138.94	—	445-2381-2-ND	500	192.50	C4532C0G3F271K
		3000	330pF	±10%	2.5	445-2382-1-ND	23.51	138.94	400.78	445-2382-2-ND	1,000	299.00	C4532C0G3F331K
		630	10000pF	±5%	1.6	445-2360-1-ND	64.02	378.30	1091.25	445-2360-2-ND	1,000	1048.00	C4532C0G2J103J
		630	15000pF	±5%	2.5	445-2361-1-ND	64.02	378.30	—	445-2361-2-ND	500	524.00	C4532C0G2J153J
		630	22000pF	±5%	3.2	445-2362-1-ND	64.02	378.30	—	445-2362-2-ND	500	524.00	C4532C0G2J223J
		250	22000pF	±5%	1.6	445-2357-1-ND	56.02	331.01	954.84	445-2357-2-ND	1,000	917.00	C4532C0G2E223J
		250	33000pF	±5%	2.0	445-2358-1-ND	56.02	331.01	954.84	445-2358-2-ND	1,000	917.00	C4532C0G2E333J
		250	47000pF	±5%	3.2	445-2359-1-ND	56.02	331.01	—	445-2359-2-ND	500	458.50	C4532C0G2E473J
		100	47000pF	±5%	2.0	445-2354-1-ND	40.01	236.44	682.03	445-2354-2-ND	1,000	655.00	C4532C0G2A473J
		100	68000pF	±5%	2.5	445-2355-1-ND	48.02	283.73	—	445-2355-2-ND	500	393.00	C4532C0G2A683J
		100	0.1µF	±5%	3.2	445-2356-1-ND	48.02	283.73	—	445-2356-2-ND	500	393.00	C4532C0G2A104J
		50	47000pF	±5%	1.6	445-2710-1-ND	38.50	227.50	656.25	445-2710-2-ND	1,000	630.00	C4532C0G1H473J
		50	68000pF	±5%	1.6	445-2711-1-ND	44.00	260.00	750.00	445-2711-2-ND	1,000	720.00	C4532C0G1H683J
		50	0.1µF	±5%	2.0	445-2707-1-ND	44.00	260.00	750.00	445-2707-2-ND	1,000	720.00	C4532C0G1H104J
		50	0.15µF	±5%	2.5	445-2708-1-ND	49.50	292.50	—	445-2708-2-ND	500	405.00	C4532C0G1H154J
		50	0.22µF	±5%	3.2	445-2709-1-ND	49.50	292.50	—	445-2709-2-ND	500	405.00	C4532C0G1H224J
	X7R	2000	2200pF	±10%	1.3	445-2389-1-ND	20.63	121.88	351.56	445-2389-2-ND	1,000	338.00	C4532X7R3D222K
		1000	4700pF	±10%	1.6	445-2387-1-ND	20.63	121.88	351.56	445-2387-2-ND	1,000	338.00	C4532X7R3A472K
		1000	10000pF	±10%	2.0	445-2388-1-ND	20.63	121.88	351.56	445-2388-2-ND	1,000	338.00	C4532X7R3A103K
		630	0.1µF	±10%	2.3	445-2300-1-ND	24.75	146.25	—	445-2300-2-ND	500	202.50	C4532X7R2J104K
		250	0.22µF	±10%	2.3	445-2298-1-ND	24.01	141.86	—	445-2298-2-ND	500	196.50	C4532X7R2E224K
		250	0.47µF	±10%	2.3	445-2299-1-ND	33.00	195.00	—	445-2299-2-ND	500	270.00	C4532X7R2E474K
		100	1.0µF	±10%	2.3	445-1438-1-ND	24.75	146.25	—	445-1438-2-ND	500	202.50	C4532X7R2A105K
		100	1.0µF	±20%	2.3	445-1411-1-ND	37.35	220.68	—	445-1411-2-ND	500	305.55	C4532X7R2A105M
		100	2.2µF	±20%	2.3	445-1439-1-ND	33.00	195.00	—	445-1439-2-ND	500	270.00	C4532X7R2A225M
		50	2.2µF	±20%	1.6	445-1447-1-ND	32.01	189.15	545.63	445-1447-2-ND	1,000	523.80	C4532X7R1H225M
		50	4.7µF	±20%	2.3	445-1448-1-ND	33.66	198.90	573.75	445-1448-2-ND	1,000	550.80	C4532X7R1H475M
		50	6.8µF	±20%	2.5	445-1449-1-ND	63.36	374.40	—	445-1449-2-ND	500	518.40	C4532X7R1H685M
		25	4.7µF	±20%	1.6	445-1446-1-ND	24.75	146.25	—	445-1446-2-ND	1,000	405.00	C4532X7R1E475M
		25	10µF	±20%	2.5	445-1445-1-ND	45.88	271.12	—	445-1445-2-ND	500	375.39	C4532X7R1E106M
		25	22µF	±20%	2.5	445-1607-1-ND	36.09	213.23	—	445-1607-2-ND	500	295.25	C4532X7R1E226M
		16	22µF	±20%	2.5	445-1442-1-ND	46.95	277.42	—	445-1442-2-ND	500	384.12	C4532X7R1C226M
	X5R	25	22µF	±20%	2.5	445-1444-1-ND	44.50	262.93	—	445-1444-2-ND	500	364.05	C4532X5R1E226M
		16	33µF	±20%	2.5	445-1443-1-ND	57.72	341.06	—	445-1443-2-ND	500	472.23	C4532X5R1C336M
		10	22µF	±20%	2.0	445-1412-1-ND	42.68	252.20	—	445-1412-2-ND	500	349.20	C4532X5R1A226M
		10	33µF	±20%	2.0	445-1441-1-ND	54.45	321.75	—	445-1441-2-ND	500	445.50	C4532X5R1A336M
		10	47µF	±20%	2.8	445-1440-1-ND	67.22	397.22	—	445-1440-2-ND	500	549.99	C4532X5R1A476M
		6.3	100µF	±20%	2.8	445-1413-1-ND	93.50	552.50	—	445-1413-2-ND	500	765.00	C4532X5R0J107M
	Y5V	50	10µF	+80/-20%	2.5	445-3483-1-ND ***NEW!***	30.25	178.75	515.63	445-3483-2-ND ***NEW!***	1,000	495.00	C4532Y5V1H106Z
		25	22µF	+80/-20%	2.5	445-3482-1-ND ***NEW!***	30.25	178.75	515.63	445-3482-2-ND ***NEW!***	1,000	495.00	C4532Y5V1E226Z
		16	47µF	+80/-20%	2.5	445-3481-1-ND ***NEW!***	30.25	178.75	—	445-3481-2-ND ***NEW!***	500	247.50	C4532Y5V1C476Z
		10	100µF	+80/-20%	2.5	445-1414-1-ND	55.00	325.00	—	445-1414-2-ND	500	450.00	C4532Y5V1A107Z
2220	X7R	630	0.22µF	±10%	2.3	445-2305-1-ND	64.02	378.30	—	445-2305-2-ND	500	524.00	C5750X7R2J224K
		250	0.47µF	±10%	2.3	445-2303-1-ND	56.02	331.01	—	445-2303-2-ND	500	458.50	C5750X7R2E474K
		250	1.0µF	±10%	2.3	445-2304-1-ND	64.02	378.30	—	445-2304-2-ND	500	524.00	C5750X7R2E105K
		100	1.0µF	±10%	2.3	445-2301-1-ND	56.02	331.01	—	445-2301-2-ND	500	458.50	C5750X7R2A105K
		100	2.2µF	±20%	2.3	445-2302-1-ND	64.02	378.30	—	445-2302-2-ND	500	524.00	C5750X7R2A225M
		100	4.7µF	±20%	2.3	445-1450-1-ND	80.03	472.88	—	445-1450-2-ND	500	654.75	C5750X7R2A475M
		50	4.7µF	±10%	2.0	445-3488-1-ND ***NEW!***	52.80	312.00	—	445-3488-2-ND ***NEW!***	500	432.00	C5750X7R1H475K
		50	4.7µF	±20%	2.0	445-3489-1-ND ***NEW!***	49.50	292.50	—	445-3489-2-ND ***NEW!***	500	405.00	C5750X7R1H475M
		50	6.8µF	±10%	2.5	445-3490-1-ND ***NEW!***	55.00	325.00	—	445-3490-2-ND ***NEW!***	500	450.00	C5750X7R1H685K
		50	6.8µF	±20%	2.5	445-3491-1-ND ***NEW!***	49.50	292.50	—	445-3491-2-ND ***NEW!***	500	405.00	C5750X7R1H685M
		50	10µF	±10%	2.3	445-3492-1-ND ***NEW!***	50.05	295.75	—	445-3492-2-ND ***NEW!***	500	409.50	C5750X7R1H106K
		50	10µF	±20%	2.3	445-1454-1-ND	49.50	292.50	—	445-1454-2-ND	500	405.00	C5750X7R1H106M
		25	10µF	±20%	2.0	445-3493-1-ND ***NEW!***	49.50	292.50	—	445-3493-2-ND ***NEW!***	500	405.00	C5750X7R1E106M
		25	15µF	±20%	2.3	445-3494-1-ND ***NEW!***	66.00	390.00	—	445-3494-2-ND ***NEW!***	500	540.00	C5750X7R1E156M
		25	22µF	±20%	2.5	445-1453-1-ND	76.82	453.96	—	445-1453-2-ND	500	628.56	C5750X7R1E226M
		16	22µF	±20%	2.3	445-3495-1-ND ***NEW!***	55.00	325.00	—	445-3495-2-ND ***NEW!***	500	450.00	C5750X7R1C226M
		16	47µF	±20%	2.3	445-3496-1-ND ***NEW!***	66.00	390.00	—	445-3496-2-ND ***NEW!***	500	540.00	C5750X7R1C476M
	X5R	50	10µF	±10%	2.3	445-3497-1-ND ***NEW!***	50.05	295.75	—	445-3497-2-ND ***NEW!***	500	409.50	C5750X5R1H106K
		50	10µF	±20%	2.3	445-3498-1-ND ***NEW!***	49.50	292.50	—	445-3498-2-ND ***NEW!***	500	405.00	C5750X5R1H106M
		25	22µF	±20%	2.5	445-3499-1-ND ***NEW!***	66.00	390.00	—	445-3499-2-ND ***NEW!***	500	540.00	C5750X5R1E226M
		16	33µF	±20%	2.0	445-3500-1-ND ***NEW!***	66.00	390.00	—	445-3500-2-ND ***NEW!***	500	540.00	C5750X5R1C336M
		16	47µF	±20%	2.3	445-1452-1-ND	66.00	390.00	—	445-1452-2-ND	500	540.00	C5750X5R1C476M
		10	68µF	±20%	2.3	445-1451-1-ND	82.50	487.50	—	445-1451-2-ND	500	675.00	C5750X5R1A686M
		6.3	100µF	±20%	2.8	445-3501-1-ND ***NEW!***	66.00	390.00	—	445-3501-2-ND ***NEW!***	500	540.00	C5750X5R0J107M
	Y5V	50	22µF	+80/-20%	2.0	445-3487-1-ND ***NEW!***	49.50	292.50	—	445-3487-2-ND ***NEW!***	500	405.00	C5750Y5V1H226Z
		25	47µF	+80/-20%	2.0	445-3486-1-ND ***NEW!***	55.00	325.00	—	445-3486-2-ND ***NEW!***	500	450.00	C5750Y5V1E476Z
		16	100µF	+80/-20%	2.5	445-3485-1-ND ***NEW!***	60.50	357.50	—	445-3485-2-ND ***NEW!***	500	495.00	C5750Y5V1C107Z
		10	100µF	+80/-20%	2.3	445-3484-1-ND ***NEW!***	60.50	357.50	—	445-3484-2-ND ***NEW!***	500	495.00	C5750Y5V1A107Z

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

CKG Series 2-Chip Piled Multilayer Ceramic Capacitors

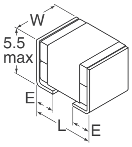

Series	Dimensions – mm L	W	E
CKG45N	5.5	4.0	1.4
CKG57N	6.5	5.5	1.9

Features: • No polarity • Twice the capacitance is obtainable on a single capacitor space • Unique construction provides high reliability • Metal caps absorb stress from thermal and mechanical shocks, ensuring excellent performance on aluminum circuit substrates • Low ESR and ESL promises excellent characteristics for high frequency switching power supply **Applications:** • Smoothing circuits, temperature variable applications • Maintenance free power supplies, DC to DC converters and automotive Operating Temperature: • X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

Series	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	TDK Part No.
CKG45N	X7R	630	0.22µF	±20%	445-2396-1-ND	108.68	642.20	1852.50	445-2396-2-ND	1778.00	CKG45NX7R2J224M
		250	0.47µF	±20%	445-2395-1-ND	93.01	549.58	1585.31	445-2395-2-ND	1522.00	CKG45NX7R2E474M
		100	2.2µF	±20%	445-2394-1-ND	102.41	605.15	1745.63	445-2394-2-ND	1676.00	CKG45NX7R2A225M
		50	3.3µF	±20%	445-2393-1-ND	97.19	574.28	1656.56	445-2393-2-ND	1590.00	CKG45NX7R1H335M
		25	10µF	±20%	445-2392-1-ND	94.05	555.75	1603.13	445-2392-2-ND	1539.00	CKG45NX7R1E106M
		16	22µF	±20%	445-2391-1-ND	104.50	617.50	1781.25	445-2391-2-ND	1710.00	CKG45NX7R1C226M
	X5R	50	10µF	±20%	445-1660-1-ND	57.86	505.40	1995.00	445-1660-2-ND	2394.00	CKG45NX5R1H106M
		16	47µF	±20%	445-2390-1-ND	114.95	679.25	1959.38	445-2390-2-ND	1881.00	CKG45NX5R1C476M
CKG57N	X7R	630	0.47µF	±20%	445-2401-1-ND	104.50	617.50	1781.25	445-2401-2-ND	1710.00	CKG57NX7R2J474M
		250	1.0µF	±20%	445-2400-1-ND	109.73	648.38	1870.31	445-2400-2-ND	1796.00	CKG57NX7R2E105M
		100	2.2µF	±20%	445-1658-1-ND	49.59	433.20	1710.00	445-1658-2-ND	2052.00	CKG57NX7R2A225M
		100	4.7µF	±20%	445-1659-1-ND	52.69	460.28	1816.88	445-1659-2-ND	2180.25	CKG57NX7R2A475M
		50	10µF	±20%	445-2399-1-ND	114.95	679.25	1959.38	445-2399-2-ND	1881.00	CKG57NX7R1H106M
		25	22µF	±20%	445-2398-1-ND	114.95	679.25	1959.38	445-2398-2-ND	1881.00	CKG57NX7R1E226M
		16	33µF	±20%	445-2397-1-ND	125.40	741.00	2137.50	445-2397-2-ND	2052.00	CKG57NX7R1C336M
	X5R	50	22µF	±20%	445-1655-1-ND	52.90	462.08	1824.00	445-1655-2-ND	2188.80	CKG57NX5R1H226M
		25	47µF	±20%	445-1657-1-ND	61.16	534.28	2109.00	445-1657-2-ND	2530.80	CKG57NX5R1E476M
		16	100µF	±20%	445-1656-1-ND	70.25	613.70	2422.50	445-1656-2-ND	2907.00	CKG57NX5R1C107M

CKD Series

3-Terminal Feed Through Multilayer Ceramic Chip Capacitors

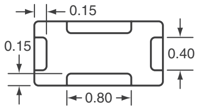

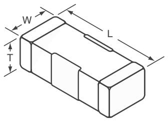

Features: • Small low-cost filters used for meeting EMC requirements • Can be used up to even higher frequencies due to low parasitic inductance • Optimized for use as a noise bypass capacitors for signal and power source circuits

Applications: For digital and analog signal line noise bypassing signal line

Series (Case Size)	WV DC	Capacitance	Tolerance (%)	Dimensions – mm L	W	T	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
Signal Line														
CKD510JB (0805)	50	22pF	+50, -20	2.00	1.25	0.85	445-3011-1-ND	4.40	26.00	75.00	445-3011-2-ND	4,000	72.00/M	CKD510JB1H220S
	50	47pF	+50, -20	2.00	1.25	0.85	445-3012-1-ND	4.40	26.00	75.00	445-3012-2-ND	4,000	72.00/M	CKD510JB1H470S
	50	100pF	+50, -20	2.00	1.25	0.85	445-3013-1-ND	4.40	26.00	75.00	445-3013-2-ND	4,000	72.00/M	CKD510JB1H101S
	50	220pF	+50, -20	2.00	1.25	0.85	445-3014-1-ND	4.40	26.00	75.00	445-3014-2-ND	4,000	72.00/M	CKD510JB1H221S
	50	470pF	+50, -20	2.00	1.25	0.85	445-3015-1-ND	4.40	26.00	75.00	445-3015-2-ND	4,000	72.00/M	CKD510JB1H471S
	50	1000pF	+50, -20	2.00	1.25	0.85	445-3016-1-ND	4.40	26.00	75.00	445-3016-2-ND	4,000	72.00/M	CKD510JB1H102S
	50	2200pF	+50, -20	2.00	1.25	0.85	445-3017-1-ND	4.40	26.00	75.00	445-3017-2-ND	4,000	72.00/M	CKD510JB1H222S
	50	4700pF	+50, -20	2.00	1.25	0.85	445-3018-1-ND	4.40	26.00	75.00	445-3018-2-ND	4,000	72.00/M	CKD510JB1H472S
CKD110JB (1205)	25	22pF	+50, -20	3.20	1.25	0.85	445-2999-1-ND	4.95	29.25	84.38	445-2999-2-ND	4,000	81.00/M	CKD110JB1E220S
	25	47pF	+50, -20	3.20	1.25	0.85	445-3000-1-ND	4.95	29.25	84.38	445-3000-2-ND	4,000	81.00/M	CKD110JB1E470S
	25	100pF	+50, -20	3.20	1.25	0.85	445-3001-1-ND	4.95	29.25	84.38	445-3001-2-ND	4,000	81.00/M	CKD110JB1E101S
	25	220pF	+50, -20	3.20	1.25	0.85	445-3002-1-ND	4.95	29.25	84.38	445-3002-2-ND	4,000	81.00/M	CKD110JB1E221S
	25	470pF	+50, -20	3.20	1.25	0.85	445-3003-1-ND	4.95	29.25	84.38	445-3003-2-ND	4,000	81.00/M	CKD110JB1E471S
	25	1000pF	+50, -20	3.20	1.25	0.85	445-3004-1-ND	4.95	29.25	84.38	445-3004-2-ND	4,000	81.00/M	CKD110JB1E102S
	25	2200pF	+50, -20	3.20	1.25	0.85	445-3005-1-ND	4.95	29.25	84.38	445-3005-2-ND	4,000	81.00/M	CKD110JB1E222S
	25	4700pF	+50, -20	3.20	1.25	0.85	445-3006-1-ND	4.95	29.25	84.38	445-3006-2-ND	4,000	81.00/M	CKD110JB1E472S
	25	10000pF	+50, -20	3.20	1.25	0.85	445-3007-1-ND	5.50	32.50	93.75	445-3007-2-ND	4,000	90.00/M	CKD110JB1E103S
	25	22000pF	+50, -20	3.20	1.25	0.85	445-3008-1-ND	5.50	32.50	93.75	445-3008-2-ND	4,000	90.00/M	CKD110JB1E223S
	25	47000pF	+50, -20	3.20	1.25	0.85	445-3009-1-ND	5.50	32.50	93.75	445-3009-2-ND	4,000	90.00/M	CKD110JB1E473S
	25	.1µF	+50, -20	3.20	1.25	0.85	445-3010-1-ND	5.50	32.50	93.75	445-3010-2-ND	4,000	90.00/M	CKD110JB1E104S
Power Line														
CKD61BJB (0603)	6.3	.47µF	+50, -20	1.60	0.80	0.60	445-3028-1-ND	5.50	32.50	93.75	445-3028-2-ND	4,000	90.00/M	CKD61BJB0J474S
CKD610JB (0603)	6.3	1µF	+50, -20	1.60	0.80	0.80	445-3029-1-ND	5.50	32.50	93.75	445-3029-2-ND	4,000	90.00/M	CKD610JB0J105S
	6.3	2.2µF	+50, -20	1.60	0.80	0.80	445-3030-1-ND	6.60	39.00	112.50	445-3030-2-ND	4,000	108.00/M	CKD610JB0J225S
CKD510JB (0805)	25	10000pF	+50, -20	2.00	1.25	0.85	445-3019-1-ND	4.95	29.25	84.38	445-3019-2-ND	4,000	81.00/M	CKD510JB1E103S
	25	22000pF	+50, -20	2.00	1.25	0.85	445-3020-1-ND	4.95	29.25	84.38	445-3020-2-ND	4,000	81.00/M	CKD510JB1E223S
	25	47000pF	+50, -20	2.00	1.25	0.85	445-3021-1-ND	4.95	29.25	84.38	445-3021-2-ND	4,000	81.00/M	CKD510JB1E473S
	25	.1µF	+50, -20	2.00	1.25	0.85	445-3022-1-ND	4.95	29.25	84.38	445-3022-2-ND	4,000	81.00/M	CKD510JB1E104S
	10	1µF	+50, -20	2.00	1.25	0.85	445-3027-1-ND	6.05	35.75	103.13	445-3027-2-ND	4,000	99.00/M	CKD510JB1A105S
CKD310JB (1206)	16	.1µF	+50, -20	3.20	1.60	1.60	445-3023-1-ND	5.50	32.50	93.75	445-3023-2-ND	2,000	90.00/M	CKD310JB1C104S
	16	.22µF	+50, -20	3.20	1.60	1.60	445-3024-1-ND	5.50	32.50	93.75	445-3024-2-ND	2,000	90.00/M	CKD310JB1C224S
	16	.47µF	+50, -20	3.20	1.60	1.60	445-3025-1-ND	5.50	32.50	93.75	445-3025-2-ND	2,000	90.00/M	CKD310JB1C474S
	16	1µF	+50, -20	3.20	1.60	1.60	445-3026-1-ND	6.60	39.00	112.50	445-3026-2-ND	2,000	108.00/M	CKD310JB1C105S

CLL Series

Ultra Low Inductance Multilayer Ceramic Chip Capacitors

Features:
- Unique internal structure that cancels magnetic fields to reduce inductance
- Compact and lightweight
- Supports lead free soldering

Applications:
- Power supply circuits for CPUs and high speed digital ICs

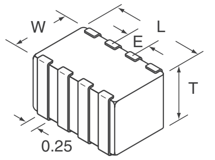

Series	Type	WV DC	Capacitance (µF)	Tolerance	Dimensions – mm L	W	T max.	E	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	T & R Pricing 4,000	TDK Part No.
CLLC1A (0306)	X7S	4.0	.33	±20%	1.6	0.8	0.55	0.4	445-3391-1-ND	7.15	42.25	121.88	445-3391-2-ND	117.00/M	CLLC1AX7S0G334M
		4.0	.47	±20%	1.6	0.8	0.55	0.4	445-3392-1-ND	5.50	32.50	93.75	445-3392-2-ND	90.00/M	CLLC1AX7S0G474M
		4.0	.68	±20%	1.6	0.8	0.55	0.4	445-3393-1-ND	7.70	45.50	131.25	445-3393-2-ND	126.00/M	CLLC1AX7S0G684M
		4.0	1.0	±20%	1.6	0.8	0.55	0.4	445-3394-1-ND	4.95	29.25	84.38	445-3394-2-ND	81.00/M	CLLC1AX7S0G105M
CLLE1A (0508)	X7R	10.0	0.1	±20%	2.0	1.25	0.55	0.5	445-3395-1-ND	4.95	29.25	84.38	445-3395-2-ND	81.00/M	CLLE1AX7R1A104M
		10.0	0.15	±20%	2.0	1.25	0.55	0.5	445-3396-1-ND	5.50	32.50	93.75	445-3396-2-ND	90.00/M	CLLE1AX7R1A154M
		10.0	0.22	±20%	2.0	1.25	0.55	0.5	445-3397-1-ND	4.95	29.25	84.38	445-3397-2-ND	81.00/M	CLLE1AX7R1A224M
		10.0	0.33	±20%	2.0	1.25	0.55	0.5	445-3398-1-ND	5.50	32.50	93.75	445-3398-2-ND	90.00/M	CLLE1AX7R1A334M
		6.3	0.47	±20%	2.0	1.25	0.55	0.5	445-3399-1-ND	6.05	35.75	103.13	445-3399-2-ND	99.00/M	CLLE1AX7R0J474M
		6.3	0.68	±20%	2.0	1.25	0.55	0.5	445-3400-1-ND	6.60	39.00	112.50	445-3400-2-ND	108.00/M	CLLE1AX7R0J684M
		6.3	1.0	±20%	2.0	1.25	0.95	0.5	445-3401-1-ND	6.05	35.75	103.13	445-3401-2-ND	99.00/M	CLLE1AX7R0J105M
		6.3	1.5	±20%	2.0	1.25	0.95	0.5	445-3402-1-ND	6.60	39.00	112.50	445-3402-2-ND	108.00/M	CLLE1AX7R0J155M
	X7S	4.0	1.0	±20%	2.0	1.25	0.55	0.5	445-3403-1-ND	7.15	42.25	121.88	445-3403-2-ND	117.00/M	CLLE1AX7S0G105M
		4.0	1.5	±20%	2.0	1.25	0.55	0.5	445-3404-1-ND	9.35	55.25	159.38	445-3404-2-ND	153.00/M	CLLE1AX7S0G155M
		4.0	2.2	±20%	2.0	1.25	0.55	0.5	445-3405-1-ND	8.14	48.10	138.75	445-3405-2-ND	133.00/M	CLLE1AX7S0G225M/0.55
		4.0	2.2	±20%	2.0	1.25	0.95	0.5	445-3406-1-ND	7.15	42.25	121.88	445-3406-2-ND	117.00/M	CLLE1AX7S0G225M/0.95
		4.0	4.7	±20%	2.0	1.25	0.95	0.5	445-3407-1-ND	9.35	55.25	159.38	445-3407-2-ND	153.00/M	CLLE1AX7S0G475M

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TDK CKC Series 2-Element Multilayer Ceramic Chip Capacitor Array

Digi-Reel® RoHS COMPLIANT

Features: • Two capacitors are fitted in a single product, contributing to reduced installation costs • The electrostatic capacity range and shape are designed to meet the demands of the cellular phone market • Reduced crosstalk (signal interference) between the terminals

Applications: • They are suited for circuits that require multiple identical capacitors in a particular area of a board, such as interfaces and high-frequency noise bypass circuits on cellular phones, interfaces including I/O cables on PCs and peripherals, as well as CPU bus lines

Operating Temperatures: • C0G (NP0) and X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

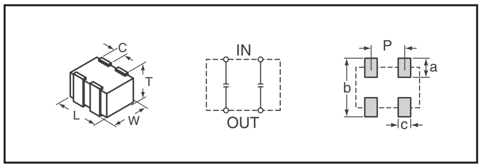

Case Size	Dimensions (mm)							
	L	W	T	C	P	a	b	c
0504	1.37±0.15	1.0±0.15	0.9 max.	0.36±0.1	0.64±0.1	0.45	1.20	0.30
0805	2.0±0.15	1.25±0.15	1.0 max.	0.45±0.1	1.0±0.1	0.60	1.60	0.50

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
						10	100	500		Qty.	Pricing	
0504	C0G (NP0)	50	10pF	±1pF	445-1858-1-ND	.65	5.56	23.16	445-1858-2-ND	4,000	25.95/M	CKCM25C0G1H100F
		50	15pF	±10%	445-1859-1-ND	.65	5.56	23.16	445-1859-2-ND	4,000	25.95/M	CKCM25C0G1H150K
		50	22pF	±10%	445-1860-1-ND	.65	5.56	23.16	445-1860-2-ND	4,000	25.95/M	CKCM25C0G1H220K
		50	33pF	±10%	445-1861-1-ND	.65	5.56	23.16	445-1861-2-ND	4,000	25.95/M	CKCM25C0G1H330K
		50	47pF	±10%	445-1862-1-ND	.65	5.56	23.16	445-1862-2-ND	4,000	25.95/M	CKCM25C0G1H470K
		50	68pF	±10%	445-1863-1-ND	.65	5.56	23.16	445-1863-2-ND	4,000	25.95/M	CKCM25C0G1H680K
		50	100pF	±10%	445-1864-1-ND	.65	5.56	23.16	445-1864-2-ND	4,000	25.95/M	CKCM25C0G1H101K
	X7R	50	1000pF	±20%	445-1865-1-ND	.65	5.56	23.16	445-1865-2-ND	4,000	25.95/M	CKCM25X7R1H102M
		50	2200pF	±20%	445-1866-1-ND	.65	5.56	23.16	445-1866-2-ND	4,000	25.95/M	CKCM25X7R1H222M
		25	4700pF	±20%	445-1867-1-ND	.65	5.56	23.16	445-1867-2-ND	4,000	25.95/M	CKCM25X7R1E472M
		16	10000pF	±20%	445-1868-1-ND	.65	5.56	23.16	445-1868-2-ND	4,000	25.95/M	CKCM25X7R1C103M
	X5R	10	22000pF	±20%	445-1869-1-ND	.75	6.41	26.73	445-1869-2-ND	4,000	29.94/M	CKCM25X5R1A223M
		10	47000pF	±20%	445-1870-1-ND	.75	6.41	26.73	445-1870-2-ND	4,000	29.94/M	CKCM25X5R1A473M
		6.3	.10µF	±20%	445-1871-1-ND	.75	6.41	26.73	445-1871-2-ND	4,000	29.94/M	CKCM25X5R0J104M
		6.3	.22µF	±20%	445-1872-1-ND	1.15	9.83	40.98	445-1872-2-ND	4,000	45.90/M	CKCM25X5R0J224M
		6.3	.47µF	±20%	445-1873-1-ND	1.15	9.83	40.98	445-1873-2-ND	4,000	45.90/M	CKCM25X5R0J474M
		6.3	1.0µF	±20%	445-1874-1-ND	1.15	9.83	40.98	445-1874-2-ND	4,000	45.90/M	CKCM25X5R0J105M
0805	C0G (NP0)	50	10pF	±1pF	445-1875-1-ND	.90	7.70	32.06	445-1875-2-ND	4,000	35.91/M	CKCL22C0G1H100F
		50	15pF	±10%	445-1876-1-ND	.90	7.70	32.06	445-1876-2-ND	4,000	35.91/M	CKCL22C0G1H150K
		50	22pF	±10%	445-1877-1-ND	.90	7.70	32.06	445-1877-2-ND	4,000	35.91/M	CKCL22C0G1H220K
		50	33pF	±10%	445-1878-1-ND	.90	7.70	32.06	445-1878-2-ND	4,000	35.91/M	CKCL22C0G1H330K
		50	47pF	±10%	445-1879-1-ND	.90	7.70	32.06	445-1879-2-ND	4,000	35.91/M	CKCL22C0G1H470K
		50	68pF	±10%	445-1880-1-ND	.90	7.70	32.06	445-1880-2-ND	4,000	35.91/M	CKCL22C0G1H680K
		50	100pF	±10%	445-1881-1-ND	.90	7.70	32.06	445-1881-2-ND	4,000	35.91/M	CKCL22C0G1H101K
		50	150pF	±10%	445-1882-1-ND	1.00	8.55	35.63	445-1882-2-ND	4,000	39.90/M	CKCL22C0G1H151K
		50	220pF	±10%	445-1883-1-ND	1.00	8.55	35.63	445-1883-2-ND	4,000	39.90/M	CKCL22C0G1H221K
		50	330pF	±10%	445-1884-1-ND	1.10	9.41	39.19	445-1884-2-ND	4,000	43.89/M	CKCL22C0G1H331K
		50	470pF	±10%	445-1885-1-ND	1.10	9.41	39.19	445-1885-2-ND	4,000	43.89/M	CKCL22C0G1H471K
	X7R	50	1000pF	±20%	445-1886-1-ND	.90	7.70	32.06	445-1886-2-ND	4,000	35.91/M	CKCL22X7R1H102M
		50	2200pF	±20%	445-1887-1-ND	.90	7.70	32.06	445-1887-2-ND	4,000	35.91/M	CKCL22X7R1H222M
		50	4700pF	±20%	445-1888-1-ND	.90	7.70	32.06	445-1888-2-ND	4,000	35.91/M	CKCL22X7R1H472M
		50	10000pF	±20%	445-1889-1-ND	.90	7.70	32.06	445-1889-2-ND	4,000	35.91/M	CKCL22X7R1H103M
		25	22000pF	±20%	445-1890-1-ND	.90	7.70	32.06	445-1890-2-ND	4,000	35.91/M	CKCL22X7R1E223M
		25	47000pF	±20%	445-1891-1-ND	1.00	8.55	35.63	445-1891-2-ND	4,000	39.90/M	CKCL22X7R1E473M
		16	.10µF	±20%	445-1892-1-ND	1.00	8.55	35.63	445-1892-2-ND	4,000	39.90/M	CKCL22X7R1C104M
	X5R	10	.22µF	±20%	445-1893-1-ND	1.15	9.83	40.98	445-1893-2-ND	4,000	45.90/M	CKCL22X5R1A224M
		6.3	.47µF	±20%	445-1894-1-ND	1.15	9.83	40.98	445-1894-2-ND	4,000	45.90/M	CKCL22X5R0J474M
		6.3	1.0µF	±20%	445-1895-1-ND	1.25	10.69	44.54	445-1895-2-ND	4,000	49.89/M	CKCL22X5R0J105M

CKC Series 4-Element Multilayer Ceramic Chip Capacitor Array

Digi-Reel® RoHS COMPLIANT

Features: • The CKC Series are integrated, single-chip, 4-element capacitors that are highly effective in EMC countermeasure applications • They are particularly effective when used as a bypass for digital signal line noise, thereby preventing EMC around connectors

Applications: • For use as a bypass for digital and analog signal line noise generated by telecommunications equipment and other common electronic circuits

Operating Temperatures: • C0G (NP0) and X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

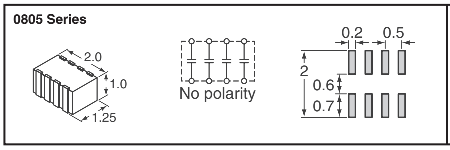

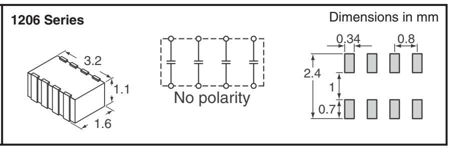

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
						10	100	500		Qty.	Pricing	
0805	C0G (NP0)	50	10pF	±1pF	445-1822-1-ND	.90	7.70	32.06	445-1822-2-ND	4,000	35.91/M	CKCL44C0G1H100F
		50	15pF	±10%	445-1823-1-ND	.90	7.70	32.06	445-1823-2-ND	4,000	35.91/M	CKCL44C0G1H150K
		50	22pF	±10%	445-1824-1-ND	.90	7.70	32.06	445-1824-2-ND	4,000	35.91/M	CKCL44C0G1H220K
		50	33pF	±10%	445-1825-1-ND	.90	7.70	32.06	445-1825-2-ND	4,000	35.91/M	CKCL44C0G1H330K
		50	47pF	±10%	445-1826-1-ND	.90	7.70	32.06	445-1826-2-ND	4,000	35.91/M	CKCL44C0G1H470K
		50	68pF	±10%	445-1827-1-ND	.90	7.70	32.06	445-1827-2-ND	4,000	35.91/M	CKCL44C0G1H680K
		50	100pF	±10%	445-1828-1-ND	.90	7.70	32.06	445-1828-2-ND	4,000	35.91/M	CKCL44C0G1H101K
		50	150pF	±10%	445-1829-1-ND	.90	7.70	32.06	445-1829-2-ND	4,000	35.91/M	CKCL44C0G1H151K
	X7R	50	220pF	±20%	445-1830-1-ND	.90	7.70	32.06	445-1830-2-ND	4,000	35.91/M	CKCL44X7R1H221M
		50	470pF	±20%	445-1831-1-ND	.90	7.70	32.06	445-1831-2-ND	4,000	35.91/M	CKCL44X7R1H471M
		50	1000pF	±20%	445-1832-1-ND	.90	7.70	32.06	445-1832-2-ND	4,000	35.91/M	CKCL44X7R1H102M
		50	2200pF	±20%	445-1833-1-ND	.90	7.70	32.06	445-1833-2-ND	4,000	35.91/M	CKCL44X7R1H222M
		50	4700pF	±20%	445-1834-1-ND	.90	7.70	32.06	445-1834-2-ND	4,000	35.91/M	CKCL44X7R1H472M
		25	10000pF	±20%	445-1835-1-ND	.90	7.70	32.06	445-1835-2-ND	4,000	35.91/M	CKCL44X7R1E103M
		16	22000pF	±20%	445-1836-1-ND	1.00	8.55	35.63	445-1836-2-ND	4,000	39.90/M	CKCL44X7R1C223M
	X5R	10	47000pF	±20%	445-1837-1-ND	1.00	8.55	35.63	445-1837-2-ND	4,000	39.90/M	CKCL44X5R1A473M
		6.3	.10µF	±20%	445-1838-1-ND	1.15	9.83	40.98	445-1838-2-ND	4,000	45.90/M	CKCL44X5R0J104M
1206	C0G (NP0)	50	10pF	±1pF	445-1839-1-ND	1.00	8.55	35.63	445-1839-2-ND	2,000	39.90/M	CKCA43C0G1H100F
		50	15pF	±10%	445-1840-1-ND	1.00	8.55	35.63	445-1840-2-ND	2,000	39.90/M	CKCA43C0G1H150K
		50	22pF	±10%	445-1841-1-ND	1.00	8.55	35.63	445-1841-2-ND	2,000	39.90/M	CKCA43C0G1H220K
		50	33pF	±10%	445-1842-1-ND	1.00	8.55	35.63	445-1842-2-ND	2,000	39.90/M	CKCA43C0G1H330K
		50	47pF	±10%	445-1843-1-ND	1.00	8.55	35.63	445-1843-2-ND	2,000	39.90/M	CKCA43C0G1H470K
		50	68pF	±10%	445-1844-1-ND	1.00	8.55	35.63	445-1844-2-ND	2,000	39.90/M	CKCA43C0G1H680K
		50	100pF	±10%	445-1845-1-ND	1.00	8.55	35.63	445-1845-2-ND	2,000	39.90/M	CKCA43C0G1H101K
		50	150pF	±10%	445-1846-1-ND	1.00	8.55	35.63	445-1846-2-ND	2,000	39.90/M	CKCA43C0G1H151K
		50	220pF	±10%	445-1847-1-ND	1.00	8.55	35.63	445-1847-2-ND	2,000	39.90/M	CKCA43C0G1H221K
		50	330pF	±10%	445-1848-1-ND	1.10	9.41	39.19	445-1848-2-ND	2,000	43.89/M	CKCA43C0G1H331K
		50	470pF	±10%	445-1849-1-ND	1.10	9.41	39.19	445-1849-2-ND	2,000	43.89/M	CKCA43C0G1H471K
	X7R	50	470pF	±20%	445-1850-1-ND	1.00	8.55	35.63	445-1850-2-ND	2,000	39.90/M	CKCA43X7R1H471M
		50	1000pF	±20%	445-1851-1-ND	1.00	8.55	35.63	445-1851-2-ND	2,000	39.90/M	CKCA43X7R1H102M
		50	2200pF	±20%	445-1852-1-ND	1.00	8.55	35.63	445-1852-2-ND	2,000	39.90/M	CKCA43X7R1H222M
		50	4700pF	±20%	445-1853-1-ND	1.00	8.55	35.63	445-1853-2-ND	2,000	39.90/M	CKCA43X7R1H472M
		50	10000pF	±20%	445-1854-1-ND	1.00	8.55	35.63	445-1854-2-ND	2,000	39.90/M	CKCA43X7R1H103M
		50	22000pF	±20%	445-1855-1-ND	1.15	9.83	40.98	445-1855-2-ND	2,000	45.89/M	CKCA43X7R1H223M
		25	47000pF	±20%	445-1856-1-ND	1.15	9.83	40.98	445-1856-2-ND	2,000	45.89/M	CKCA43X7R1E473M
		16	.10µF	±20%	445-1857-1-ND	1.25	10.69	44.54	445-1857-2-ND	2,000	49.88/M	CKCA43X7R1C104M

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Ceramic Disk Capacitors — Safety Standard Approved

CD Series — X1Y1

Reinforced Insulation
Type Class 2 High Dielectric

Features:

- Smaller than conventional capacitors
- Flame resistant reinforced outer insulation prevents fires, electrical shock and other potential hazards
- Compliant with the safety standards of 11 countries (conforms to European standards in accordance with IEC Publication 384-14 Version 2)
- Meets European Class II (reinforced insulation) Safety Standards VDE, SEV, SEMKO, BS. Since it is rated at a withstand voltage of AC 4000V, it can be used in a single unit configurations with European Class II devices

Temperature Range: -25°C ~ 105°C

CD Series — X1Y1 Dimensions in mm

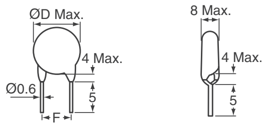

INTERNATIONALLY CERTIFIED STATUS IEC60384-14 2nd. ed. EN132400 Approved

Safety Standard	Symbols	Standard No. of IEC	Standard Number	Temperature Characteristics	Insulation Sub-Class	Rated Voltage Eac (V)	Approval Report Number Japan	Taiwan	Xiamen
BSI	BS415	IEC 60065 IEC 60384-14 2nd. ed.	BS EN 60065: 1998 (BS415: 1998) BS EN132400: 1995 (EN132400:1994)	B, E	X1, Y1	250	226495	226495	226495
VDE	VDE	IEC 60384-14 2nd. ed.	EN132400	B, E	X1 Y1	400 250	138526	138550	124321
SEV	+S	IEC 60384-14 2nd. ed.	EN132400	B, E	X1 Y1	400 250	01.1508	01.1508	99.7 70564
SEMKO	Ⓢ	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	0139185/01-02	0139185/01-02	9945094
NEMKO	Ⓝ	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	P01101987	P01101987	P99102682
DEMKO	Ⓓ	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	310959-01	310959-01	99-04087
FIMKO	FI	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	FI 17415	FI 17415	14237
IMQ		IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	V3691	V3691	V3691
SAA	—	IEC 60065	AS3250	B, E	—	400	6268	6268	6268
UL	UL	—	UL 1414	B, E	(X, Y)	250	E37861	E37861	E37861
CSA	SP	—	C22.2 No. 0 and No. 1	B, E	(X, Y)	250	LR35801	LR65972	201723

Certificate numbers shall be changed owing to the revisions of the related standards

Voltage	Capacitance Temperature Characteristics	Capacitance (pF)	Capacitance Tolerance	Dimensions – mm øD max.	F	Digi-Key Part No.	Pricing 5	10	100	TDK Part No.
250VAC	B (±10%)	100	K (±10%)	7	10+2, -1	445-2402-ND	.77	1.13	8.09	CD70-B2GA101KYNS
		150	K (±10%)	7	10+2, -1	445-2403-ND	.86	1.27	9.05	CD70-B2GA151KYNS
		220	K (±10%)	8.5	10+2, -1	445-2404-ND	.98	1.44	10.27	CD85-B2GA221KYNS
		330	K (±10%)	9	10+2, -1	445-2405-ND	1.01	1.49	10.66	CD90-B2GA331KYNS
		390	K (±10%)	9	10+2, -1	445-2406-ND	1.05	1.55	11.07	CD90-B2GA391KYNS
		470	K (±10%)	9.5	10+2, -1	445-2407-ND	1.11	1.63	11.64	CD95-B2GA471KYNS
	E (+20, -55%)	680	M (±20%)	7.5	10+2, -1	445-2408-ND	.71	1.05	7.52	CD75-E2GA681MYNS
		1000	M (±20%)	8.5	10+2, -1	445-2409-ND	.80	1.18	8.42	CD85-E2GA102MYNS
		1500	M (±20%)	10	10+2, -1	445-2410-ND	.95	1.40	9.99	CD10-E2GA152MYNS
		2200	M (±20%)	11.5	10+2, -1	445-2411-ND	1.17	1.73	12.36	CD12-E2GA222MYNS
		3300	M (±20%)	13.5	10+2, -1	445-2412-ND	1.59	2.34	16.72	CD14-E2GA332MYNS
		3900	M (±20%)	14.5	10+2, -1	445-2413-ND	1.76	2.60	18.57	CD15-E2GA392MYNS
		4700	M (±20%)	15.5	10+2, -1	445-2414-ND	2.03	2.99	21.37	CD16-E2GA472MYNS

CS Series — X1Y2

Basic Insulation
Type Class 2 High Dielectric

Features:

- Smaller than conventional capacitors
- Flame resistant reinforced outer insulation prevents fires, electrical shock and other potential hazards
- Compliant with the safety standards of 11 countries (conforms to European standards in accordance with IEC Publication 384-14 Version 2)

Temperature Range: -25°C ~ 125° C

CS Series — X1Y2 Dimensions in mm

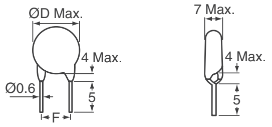

INTERNATIONALLY CERTIFIED STATUS IEC60384-14 2nd. ed. EN132400 Approved

Safety Standard	Symbols	Standard No. of IEC	Standard Number	Temperature Characteristics	Insulation Sub-Class	Rated Voltage Eac (V)	Approval Report Number Japan	Taiwan	Xiamen
BSI	BS415	IEC 60065 IEC 60384-14 2nd. ed.	BS EN 60065: 1998 (BS415: 1998) BS EN132400: 1995 (EN132400:1994)	B, E, F	X1, Y2	250	226494	226494	226494
VDE	VDE	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	138559	138560	12006
SEV	+S	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	01.15.05	01.15.05	99.7 70564
SEMKO	Ⓢ	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	0139186/01-02	0139186/01-02	9945094
NEMKO	Ⓝ	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	P01101988	P01101988	P99102682
DEMKO	Ⓓ	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	310966-01	310966-01	99-04087
FIMKO	FI	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	FI 17416	FI 17416	14237
IMQ		IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	V3692	V3692	V3691
SAA	—	IEC 60065	AS3250	B, E, F	—	400	6268	6268	6268
UL	UL	—	UL 1414	B, E, F	(X, Y)	250	E37861	E37861	E37861
CSA	SP	—	C22.2 No. 0 and No. 1	B, E, F	(X, Y)	250	LR35801	LR65972	201723

Certificate numbers shall be changed owing to the revisions of the related standards

Voltage	Capacitance Temperature Characteristics	Capacitance (pF)	Capacitance Tolerance	Dimensions – mm øD max.	F	Digi-Key Part No.	Pricing 5	10	100	TDK Part No.
250VAC	B (±10%)	100	K (±10%)	7	7.5 ± 1.5	445-2415-ND	.75	1.11	7.93	CS70-B2GA101KYNS
		150	K (±10%)	7	7.5 ± 1.5	445-2416-ND	.73	1.07	7.65	CS70-B2GA151KYNS
		220	K (±10%)	7	7.5 ± 1.5	445-2417-ND	.69	1.02	7.31	CS70-B2GA221KYNS
		330	K (±10%)	8.5	7.5 ± 1.5	445-2418-ND	.87	1.28	9.16	CS85-B2GA331KYNS
		470	K (±10%)	8.5	7.5 ± 1.5	445-2419-ND	.79	1.16	8.27	CS85-B2GA471KYNS
		680	K (±10%)	9.5	7.5 ± 1.5	445-2420-ND	.90	1.32	9.46	CS95-B2GA681KYNS
		1000	K (±10%)	10	7.5 ± 1.5	445-2421-ND	1.02	1.50	10.74	CS10-B2GA102KYNS
	E (+20, -55%)	1000	M (±20%)	8	7.5 ± 1.5	445-2422-ND	.67	.99	7.07	CS80-E2GA102MYNS
		1500	M (±20%)	9	7.5 ± 1.5	445-2423-ND	.83	1.22	8.70	CS90-E2GA152MYNS
		2200	M (±20%)	10.5	7.5 ± 1.5	445-2424-ND	.78	1.14	8.17	CS11-E2GA222MYNS
		3300	M (±20%)	12.5	7.5 ± 1.5	445-2425-ND	1.24	1.83	13.06	CS13-E2GA332MYNS
		3900	M (±20%)	13.5	7.5 ± 1.5	445-2426-ND	1.59	2.34	16.71	CS14-E2GA392MYNS
		4700	M (±20%)	14.5	7.5 ± 1.5	445-2427-ND	1.59	2.34	16.75	CS15-E2GA472MYNS
	F (+30, -80%)	4700	M (±20%)	12	7.5 ± 1.5	445-2428-ND	1.21	1.78	12.73	CS12-F2GA472MYNS
		10000	M (±20%)	16.5	10 ± 2	445-2429-ND	2.36	3.47	24.81	CS17-F2GA103MYNS

Dipped Radial Ceramic Capacitors

FK Series

Features:
Leads are formed with a “kink” to achieve consistent insertion heights and facilitate the release of gases during soldering for dramatically improved solderability.

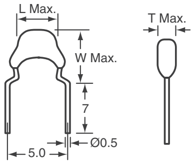

VDC	Cap.	Cap. Tol.	Dimensions (mm)			Digi-Key Part No.	Pricing			TDK Part No.
			L	W	T		5	10	100	
MID VOLTAGE										
COG (-55°C ~ 125°C)										
100V	100pF	±5%	4.0	5.5	2.5	445-2943-ND	1.07	1.58	11.25	FK28C0G2A101J
	220pF	±5%	4.0	5.5	2.5	445-2944-ND	1.09	1.61	11.50	FK28C0G2A221J
	470pF	±5%	4.0	5.5	2.5	445-2945-ND	1.14	1.68	12.00	FK28C0G2A471J
	1000pF	±5%	4.0	5.5	2.5	445-2946-ND	1.19	1.75	12.50	FK28C0G2A102J
	1000pF	±5%	4.5	5.5	2.5	445-2596-ND	1.28	1.89	13.50	FK24C0G2A102J
	2200pF	±5%	4.5	5.5	2.5	445-2597-ND	1.52	2.24	16.00	FK24C0G2A222J
	4700pF	±5%	4.5	5.5	2.5	445-2598-ND	1.76	2.59	18.50	FK24C0G2A472J
	4700pF	±5%	5.5	6.0	3.5	445-2601-ND	2.00	2.94	21.00	FK26C0G2A472J
	10000pF	±5%	5.5	6.0	3.5	445-2602-ND	2.52	3.71	26.50	FK26C0G2A103J
	22000pF	±5%	5.5	7.0	4.0	445-2609-ND	5.46	8.05	57.50	FK20C0G2A223J
	47000pF	±5%	7.5	8.0	4.0	445-2612-ND	9.07	13.37	95.50	FK22C0G2A473J
	.1µF	±5%	7.5	8.0	4.0	445-2613-ND	11.50	16.94	121.00	FK22C0G2A104J
250V	100pF	±5%	4.0	5.5	2.5	445-2593-ND	1.14	1.68	12.00	FK28C0G2E101J
	220pF	±5%	4.0	5.5	2.5	445-2594-ND	1.19	1.75	12.50	FK28C0G2E221J
	470pF	±5%	4.0	5.5	2.5	445-2595-ND	1.19	1.75	12.50	FK28C0G2E471J
	1000pF	±5%	4.5	5.5	2.5	445-2599-ND	1.38	2.03	14.50	FK24C0G2E102J
	2200pF	±5%	4.5	5.5	2.5	445-2600-ND	1.62	2.38	17.00	FK24C0G2E222J
	10000pF	±5%	5.5	7.0	4.0	445-2610-ND	4.04	5.95	42.50	FK20C0G2E103J
	22000pF	±5%	7.5	8.0	4.0	445-2614-ND	8.31	12.25	87.50	FK22C0G2E223J
	47000pF	±5%	7.5	8.0	4.0	445-2615-ND	11.50	16.94	121.00	FK22C0G2E473J
630V	220pF	±5%	5.5	6.0	3.5	445-2605-ND	1.71	2.52	18.00	FK26C0G2J221J
	470pF	±5%	5.5	6.0	3.5	445-2606-ND	1.95	2.87	20.50	FK26C0G2J471J
	1000pF	±5%	5.5	6.0	3.5	445-2607-ND	2.14	3.15	22.50	FK26C0G2J102J
	2200pF	±5%	5.5	6.0	3.5	445-2608-ND	2.38	3.50	25.00	FK26C0G2J222J
	4700pF	±5%	5.5	7.0	4.0	445-2611-ND	3.90	5.74	41.00	FK20C0G2J472J
	10000pF	±5%	7.5	8.0	4.0	445-2616-ND	5.99	8.82	63.00	FK22C0G2J103J
	22000pF	±5%	7.5	8.0	4.0	445-2617-ND	15.34	22.61	161.50	FK22C0G2J223J
X7R (-55°C ~ 125°C)										
100V	1000pF	±10%	4.0	5.5	2.5	445-2618-ND	1.09	1.61	11.50	FK28X7R2A102K
	1000pF	±10%	4.5	5.5	2.5	445-2622-ND	1.19	1.75	12.50	FK24X7R2A102K
	2200pF	±10%	4.0	5.5	2.5	445-2619-ND	1.09	1.61	11.50	FK28X7R2A222K
	4700pF	±10%	4.0	5.5	2.5	445-2620-ND	1.09	1.61	11.50	FK28X7R2A472K
	4700pF	±10%	4.5	5.5	2.5	445-2624-ND	1.28	1.89	13.50	FK24X7R2A472K
	10000pF	±10%	4.0	5.5	2.5	445-2621-ND	1.14	1.68	12.00	FK28X7R2A103K
	10000pF	±10%	4.5	5.5	2.5	445-2625-ND	1.33	1.96	14.00	FK24X7R2A103K
	22000pF	±10%	4.5	5.5	2.5	445-2626-ND	1.33	1.96	14.00	FK24X7R2A223K
	47000pF	±10%	4.5	5.5	2.5	445-2627-ND	1.38	2.03	14.50	FK24X7R2A473K
	47000pF	±10%	5.5	6.0	3.5	445-2633-ND	1.95	2.87	20.50	FK26X7R2A473K
	.1µF	±10%	5.5	6.0	3.5	445-2634-ND	2.04	3.01	21.50	FK26X7R2A104K
	.47µF	±10%	5.5	7.0	4.0	445-2643-ND	3.85	5.67	40.50	FK20X7R2A474K
	1µF	±10%	7.5	8.0	4.0	445-2647-ND	5.89	8.68	62.00	FK22X7R2A105K
250V	1000pF	±10%	4.5	5.5	2.5	445-2628-ND	1.28	1.89	13.50	FK24X7R2E102K
	2200pF	±10%	4.5	5.5	2.5	445-2629-ND	1.33	1.96	14.00	FK24X7R2E222K
	10000pF	±10%	4.5	5.5	2.5	445-2631-ND	1.38	2.03	14.50	FK24X7R2E103K
	22000pF	±10%	4.5	5.5	2.5	445-2632-ND	1.43	2.10	15.00	FK24X7R2E223K
	22000pF	±10%	5.5	6.0	3.5	445-2635-ND	2.19	3.22	23.00	FK26X7R2E223K
	47000pF	±10%	5.5	6.0	3.5	445-2636-ND	2.33	3.43	24.50	FK26X7R2E473K
	.1µF	±10%	5.5	6.0	3.5	445-2637-ND	2.52	3.71	26.50	FK26X7R2E104K
	.1µF	±10%	5.5	7.0	4.0	445-2644-ND	4.13	6.09	43.50	FK20X7R2E104K
	.22µF	±10%	5.5	7.0	4.0	445-2645-ND	4.70	6.93	49.50	FK20X7R2E224K
	.22µF	±10%	7.5	8.0	4.0	445-2648-ND	5.37	7.91	56.50	FK22X7R2E224K
	.47µF	±10%	7.5	8.0	4.0	445-2649-ND	6.70	9.87	70.50	FK22X7R2E474K
630V	1000pF	±10%	5.5	6.0	3.5	445-2638-ND	2.14	3.15	22.50	FK26X7R2J102K
	4700pF	±10%	5.5	6.0	3.5	445-2640-ND	2.38	3.50	25.00	FK26X7R2J472K
	10000pF	±10%	5.5	6.0	3.5	445-2641-ND	2.47	3.64	26.00	FK26X7R2J103K
	22000pF	±10%	5.5	6.0	3.5	445-2642-ND	2.61	3.85	27.50	FK26X7R2J223K
	47000pF	±10%	5.5	7.0	4.0	445-2646-ND	3.04	4.48	32.00	FK20X7R2J473K
	.1µF	±10%	7.5	8.0	4.0	445-2650-ND	5.04	7.42	53.00	FK22X7R2J104K
GENERAL USE										
X7R (-55°C ~ 125°C)										
16V	.22µF	±10%	4.0	5.5	2.5	445-2849-ND	1.14	1.68	12.00	FK28X7R1C224K
	1µF	±10%	4.5	5.5	2.5	445-2858-ND	1.57	2.31	16.50	FK24X7R1C105K
	2.2µF	±10%	4.5	5.5	2.5	445-2859-ND	1.76	2.59	18.50	FK24X7R1C225K
	4.7µF	±10%	5.5	6.0	3.5	445-2873-ND	2.19	3.22	23.00	FK26X7R1C475K
	10µF	±10%	5.5	7.0	4.0	445-2887-ND	4.13	6.09	43.50	FK20X7R1C106K
	10µF	±20%	5.5	7.0	4.0	445-2888-ND	4.13	6.09	43.50	FK20X7R1C106M
	22µF	±20%	7.5	8.0	4.0	445-2900-ND	8.08	11.90	85.00	FK22X7R1C226M
25V	.47µF	±10%	4.5	5.5	2.5	445-2856-ND	1.43	2.10	15.00	FK24X7R1E474K
	1µF	±10%	4.5	5.5	2.5	445-2857-ND	1.78	2.63	18.75	FK24X7R1E105K
	1µF	±10%	5.5	6.0	3.5	445-2871-ND	2.02	2.98	21.25	FK26X7R1E105K
	2.2µF	±10%	5.5	6.0	3.5	445-2872-ND	2.26	3.33	23.75	FK26X7R1E225K
	2.2µF	±10%	5.5	7.0	4.0	445-2885-ND	4.56	6.72	48.00	FK20X7R1E225K
	4.7µF	±10%	5.5	7.0	4.0	445-2886-ND	6.89	10.15	72.50	FK20X7R1E475K
	4.7µF	±10%	7.5	8.0	4.0	445-2897-ND	5.23	7.70	55.00	FK22X7R1E475K
	10µF	±10%	7.5	8.0	4.0	445-2898-ND	7.13	10.50	75.00	FK22X7R1E106K
	10µF	±20%	7.5	8.0	4.0	445-2899-ND	7.13	10.50	75.00	FK22X7R1E106M
50V	.22µF	±10%	4.5	5.5	2.5	445-2855-ND	1.31	1.93	13.75	FK24X7R1H224K
	.47µF	±10%	5.5	6.0	3.5	445-2870-ND	1.85	2.73	19.50	FK26X7R1H474K
	1µF	±10%	5.5	7.0	4.0	445-2884-ND	3.68	5.43	38.75	FK20X7R1H105K
	2.2µF	±10%	7.5	8.0	4.0	445-2896-ND	5.70	8.40	60.00	FK22X7R1H225K
X5R (-55°C ~ 85°C)										
6.3V	4.7µF	±10%	4.5	5.5	2.5	445-2862-ND	1.71	2.52	18.00	FK24X5R0J475K
	10µF	±10%	4.5	5.5	2.5	445-2863-ND	2.61	3.85	27.50	FK24X5R0J106K
	10µF	±20%	4.5	5.5	2.5	445-2864-ND	2.38	3.50	25.00	FK24X5R0J106M
	10µF	±10%	5.5	6.0	3.5	445-2876-ND	3.09	4.55	32.50	FK26X5R0J106K
	10µF	±20%	5.5	6.0	3.5	445-2877-ND	3.09	4.55	32.50	FK26X5R0J106M
	22µF	±20%	5.5	6.0	3.5	445-2878-ND	4.16	6.13	43.75	FK26X5R0J226M
	22µF	±20%	5.5	7.0	4.0	445-2890-ND	5.11	7.53	53.75	FK20X5R0J226M
	100µF	±20%	7.5	8.0	4.0	445-2902-ND	17.81	26.25	187.50	FK22X5R0J107M
10V	.47µF	±10%	4.0	5.5	2.5	445-2850-ND	1.14	1.68	12.00	FK28X5R1A474K
	1µF	±10%	4.0	5.5	2.5	445-2851-ND	1.43	2.10	15.00	FK28X5R1A105K
	2.2µF	±10%	4.5	5.5	2.5	445-2860-ND	1.52	2.24	16.00	FK24X5R1A225K
	4.7µF	±10%	4.5	5.5	2.5	445-2861-ND	2.14	3.15	22.50	FK24X5R1A475K
	10µF	±10%	5.5	6.0	3.5	445-2874-ND	3.09	4.55	32.50	FK26X5R1A106K
	10µF	±20%	5.5	6.0	3.5	445-2875-ND	3.09	4.55	32.50	FK26X5R1A106M
	47µF	±20%	7.5	8.0	4.0	445-2901-ND	10.93	16.10	115.00	FK22X5R1A476M
50V	2.2µF	±10%	5.5	7.0	4.0	445-2889-ND	4.28	6.30	45.00	FK20X5R1H225K
Y5V (-30°C ~ 85°C)										
6.3V	4.7µF	+80, -20%	4.0	5.5	2.5	445-2854-ND	1.31	1.93	13.75	FK28Y5V0J475Z
	22µF	+80, -20%	4.0	5.5	2.5	445-2869-ND	2.61	3.85	27.50	FK24Y5V0J226Z
	47µF	+80, -20%	5.5	6.0	3.5	445-2883-ND	3.21	4.73	33.75	FK26Y5V0J476Z
	100µF	+80, -20%	5.5	7.0	4.0	445-2895-ND	16.86	24.85	177.50	FK20Y5V0J107Z
10V	2.2µF	+80, -20%	4.0	5.5	2.5	445-2853-ND	1.24	1.82	13.00	FK28Y5V1A225Z
	10µF	+80, -20%	4.5	5.5	2.5	445-2868-ND	1.54	2.28	16.25	FK24Y5V1A106Z
	22µF	+80, -20%	5.5	6.0	3.5	445-2882-ND	2.61	3.85	27.50	FK26Y5V1A226Z
	47µF	+80, -20%	5.5	7.0	4.0	445-2894-ND	10.21	15.05	107.50	FK20Y5V1A476Z
	100µF	+80, -20%	7.5	8.0	4.0	445-2906-ND	17.10	25.20	180.00	FK22Y5V1A107Z
16V	1µF	+80, -20%	4.0	5.5	2.5	445-2852-ND	1.19	1.75	12.50	FK28Y5V1C105Z
	4.7µF	+80, -20%	4.5	5.5	2.5	445-2867-ND	1.43	2.10	15.00	FK24Y5V1C475Z
	10µF	+80, -20%	5.5	6.0	3.5	445-2881-ND	2.00	2.94	21.00	FK26Y5V1C106Z
	22µF	+80, -20%	5.5	7.0	4.0	445-2893-ND	7.74	11.41	81.50	FK20Y5V1C226Z
	47µF	+80, -20%	7.5	8.0	4.0	445-2905-ND	10.21	15.05	107.50	FK22Y5V1C476Z
25V	2.2µF	+80, -20%	4.5	5.5	2.5	445-2866-ND	1.28	1.89	13.50	FK24Y5V1E225Z
	4.7µF	+80, -20%	5.5	6.0	3.5	445-2880-ND	1.76	2.59	18.50	FK26Y5V1E475Z
	10µF	+80, -20%	5.5	7.0	4.0	445-2892-ND	6.65	9.80	70.00	FK20Y5V1E106Z
	22µF	+80, -20%	7.5	8.0	4.0	445-2904-ND	7.84	11.55	82.50	FK22Y5V1E226Z
50V	1µF	+80, -20%	4.5	5.5	2.5	445-2865-ND	1.28	1.89	13.50	FK24Y5V1H105Z
	2.2µF	+80, -20%	5.5	6.0	3.5	445-2879-ND	1.76	2.59	18.50	FK26Y5V1H225Z
	4.7µF	+80, -20%	5.5	7.0	4.0	445-2891-ND	4.99	7.35	52.50	FK20Y5V1H475Z
	10µF	+80, -20%	7.5	8.0	4.0	445-2903-ND	6.65	9.80	70.00	FK22Y5V1H106Z

Ceramic Capacitors Low Dissipation at High Frequency

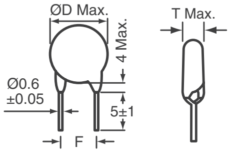

VDC	Cap.	Cap. Tol.	Dimensions (mm)			Digi-Key Part No.	Pricing			TDK Part No.
			D	T	F		5	10	100	
CK45-RR Series (-25°C ~ 125°C)										
1kV	100pF	±10%	6	5	5	445-2713-ND	.71	1.05	7.50	CK45-R3AD101K-NR
	120pF	±10%	6	5	5	445-2714-ND	.71	1.05	7.50	CK45-R3AD121K-NR
	150pF	±10%	6	5	5	445-2715-ND	.71	1.05	7.50	CK45-R3AD151K-NR
	180pF	±10%	6	5	5	445-2716-ND	.71	1.05	7.50	CK45-R3AD181K-NR
	220pF	±10%	6	5	5	445-2717-ND	.71	1.05	7.50	CK45-R3AD221K-NR
	270pF	±10%	6	5	5	445-2718-ND	.71	1.05	7.50	CK45-R3AD271K-NR
	330pF	±10%	6.5	5	5	445-2719-ND	.71	1.05	7.50	CK45-R3AD331K-NR
	390pF	±10%	6.5	5	5	445-2720-ND	.71	1.05	7.50	CK45-R3AD391K-NR
	470pF	±10%	7	5	5	445-2721-ND	.71	1.05	7.50	CK45-R3AD471K-NR
	560pF	±10%	7.5	5	5	445-2722-ND	.71	1.05	7.50	CK45-R3AD561K-NR
	680pF	±10%	8	5	5	445-2723-ND	.71	1.05	7.50	CK45-R3AD681K-NR
	820pF	±10%	8.5	5	5	445-2724-ND	.83	1.23	8.75	CK45-R3AD821K-NR
	1000pF	±10%	9	5	5	445-2725-ND	.83	1.23	8.75	CK45-R3AD102K-NR
	1200pF	±10%	9.5	5	5	445-2726-ND	.95	1.40	10.00	CK45-R3AD122K-NR
	1500pF	±10%	10	5	5	445-2727-ND	.95	1.40	10.00	CK45-R3AD152K-NR
	1800pF	±10%	10.5	5	5	445-2728-ND	.95	1.40	10.00	CK45-R3AD182K-NR
	2200pF	±10%	11.5	5	7.5	445-2729-ND	1.19	1.75	12.50	CK45-R3AD222K-NR
	2700pF	±10%	12.5	5	7.5	445-2730-ND	1.19	1.75	12.50	CK45-R3AD272K-NR
	3300pF	±10%	13.5	5	7.5	445-2731-ND	1.43	2.10	15.00	CK45-R3AD332K-NR
	3900pF	±10%	14.5	5	7.5	445-2732-ND	1.43	2.10	15.00	CK45-R3AD392K-NR
	4700pF	±10%	15.5	5	10	445-2733-ND	1.78	2.63	18.75	CK45-R3AD472K-NR
2kV	150pF	±10%	6	5	5	445-2736-ND	.71	1.05	7.50	CK45-R3DD151K-NR
	180pF	±10%	6.5	5	5	445-2737-ND	.71	1.05	7.50	CK45-R3DD181K-NR
	220pF	±10%	7	5	5	445-2738-ND	.71	1.05	7.50	CK45-R3DD221K-NR
	270pF	±10%	7	5	5	445-2739-ND	.71	1.05	7.50	CK45-R3DD271K-NR
	330pF	±10%	7.5	5	5	445-2740-ND	.71	1.05	7.50	CK45-R3DD331K-NR
	390pF	±10%	8	5	5	445-2741-ND	.83	1.23	8.75	CK45-R3DD391K-NR
	470pF	±10%	8.5	5	5	445-2742-ND	.83	1.23	8.75	CK45-R3DD471K-NR
	560pF	±10%	9	5	5	445-2743-ND	1.07	1.58	11.25	CK45-R3DD561K-NR
	680pF	±10%	9.5	5	5	445-2744-ND	1.07	1.58	11.25	CK45-R3DD681K-NR
	820pF	±10%	10	5	5	445-2745-ND	1.19	1.75	12.50	CK45-R3DD821K-NR
	1000pF	±10%	11	5	5	445-2746-ND	1.19	1.75	12.50	CK45-R3DD102K-NR
	1200pF	±10%	11.5	5	7.5	445-2747-ND	1.19	1.75	12.50	CK45-R3DD122K-NR
	1500pF	±10%	12	5	7.5	445-2748-ND	1.43	2.10	15.00	CK45-R3DD152K-NR
	1800pF	±10%	13.5	5	7.5	445-2749-ND	1.43	2.10	15.00	CK45-R3DD182K-NR
	2200pF	±10%	14.5	5	7.5	445-2750-ND	2.14	3.15	22.50	CK45-R3DD222K-NR
	2700pF	±10%	15.5	5	10	445-2751-ND	2.14	3.15	22.50	CK45-R3DD272K-NR
	3300pF	±10%	17	5	10	445-2752-ND	2.85	4.20	30.00	CK45-R3DD332K-NR
	3900pF	±10%	18	5	10	445-2753-ND	3.09	4.55	32.50	CK45-R3DD392K-NR
	4700pF	±10%	19.5	5	10	445-2754-ND	3.56	5.25	37.50	CK45-R3DD472K-NR
3kV	100pF	±10%	6	6	7.5	445-2755-ND	.71	1.05	7.50	CK45-R3FD101K-NR
	120pF	±10%	6.5	6	7.5	445-2756-ND	.71	1.05	7.50	CK45-R3FD121K-NR
	150pF	±10%	7	6	7.5	445-2757-ND	.71	1.05	7.50	CK45-R3FD151K-NR
	180pF	±10%	7	6	7.5	445-2758-ND	.71	1.05	7.50	CK45-R3FD181K-NR
	220pF	±10%	7.5	6	7.5	445-2759-ND	.83	1.23	8.75	CK45-R3FD221K-NR
	270pF	±10%	8	6	7.5	445-2760-ND	.83	1.23	8.75	CK45-R3FD271K-NR
	330pF	±10%	8.5	6	7.5	445-2761-ND	.83	1.23	8.75	CK45-R3FD331K-NR
	390pF	±10%	9	6	7.5	445-2762-ND	.83	1.23	8.75	CK45-R3FD391K-NR
	470pF	±10%	9.5	6	7.5	445-2763-ND	1.19	1.75	12.50	CK45-R3FD471K-NR
	560pF	±10%	10	6	7.5	445-2764-ND	1.19	1.75	12.50	CK45-R3FD561K-NR
	820pF	±10%	11.5	6	7.5	445-2766-ND	1.43	2.10	15.00	CK45-R3FD821K-NR
	1000pF	±10%	12	6	7.5	445-2767-ND	1.90	2.80	20.00	CK45-R3FD102K-NR
	1200pF	±10%	13	6	7.5	445-2768-ND	2.38	3.50	25.00	CK45-R3FD122K-NR
	1500pF	±10%	14.5	6	7.5	445-2769-ND	2.38	3.50	25.00	CK45-R3FD152K-NR
	1800pF	±10%	15.5	6	10	445-2770-ND	2.38	3.50	25.00	CK45-R3FD182K-NR
	2200pF	±10%	16.5	6	10	445-2771-ND	2.97	4.38	31.25	CK45-R3FD222K-NR
	2700pF	±10%	18	6	10	445-2772-ND	2.97	4.38	31.25	CK45-R3FD272K-NR

VDC	Cap.	Cap. Tol.	Dimensions (mm)			Digi-Key Part No.	Pricing			TDK Part No.
			D	T	F		5	10	100	
CC45 Series (-20°C ~ 85°C)										
1kV	10pF	±5%	5.5	5	5	445-2773-ND	1.19	1.75	12.50	CC45SL3AD100JYNN
	12pF	±5%	5.5	5	5	445-2774-ND	1.19	1.75	12.50	CC45SL3AD120JYNN
	15pF	±5%	5.5	5	5	445-2775-ND	1.19	1.75	12.50	CC45SL3AD150JYNN
	18pF	±5%	5.5	5	5	445-2776-ND	1.19	1.75	12.50	CC45SL3AD180JYNN
	22pF	±5%	5.5	5	5	445-2777-ND	1.19	1.75	12.50	CC45SL3AD220JYNN
	27pF	±5%	5.5	5	5	445-2778-ND	1.19	1.75	12.50	CC45SL3AD270JYNN
	33pF	±5%	5.5	5	5	445-2779-ND	1.19	1.75	12.50	CC45SL3AD330JYNN
	39pF	±5%	5.5	5	5	445-2780-ND	1.19	1.75	12.50	CC45SL3AD390JYNN
	47pF	±5%	5.5	5	5	445-2781-ND	1.19	1.75	12.50	CC45SL3AD470JYNN
	56pF	±5%	5.5	5	5	445-2782-ND	1.19	1.75	12.50	CC45SL3AD560JYNN
	68pF	±5%	5.5	5	5	445-2783-ND	1.19	1.75	12.50	CC45SL3AD680JYNN
	82pF	±5%	6	5	5	445-2784-ND	1.19	1.75	12.50	CC45SL3AD820JYNN
	100pF	±5%	6.5	5	5	445-2785-ND	1.19	1.75	12.50	CC45SL3AD101JYNN
	120pF	±5%	7	5	5	445-2786-ND	1.19	1.75	12.50	CC45SL3AD121JYNN
	150pF	±5%	7.5	5	5	445-2787-ND	1.19	1.75	12.50	CC45SL3AD151JYNN
	180pF	±5%	8	5	5	445-2788-ND	1.19	1.75	12.50	CC45SL3AD181JYNN
	220pF	±5%	8.5	5	5	445-2789-ND	1.19	1.75	12.50	CC45SL3AD221JYNN
	270pF	±5%	9	5	5	445-2790-ND	1.19	1.75	12.50	CC45SL3AD271JYNN
	330pF	±5%	10	5	5	445-2791-ND	1.19	1.75	12.50	CC45SL3AD331JYNN
	390pF	±5%	10.5	5	5	445-2792-ND	1.19	1.75	12.50	CC45SL3AD391JYNN
	470pF	±5%	11.5	5	7.5	445-2793-ND	1.66	2.45	17.50	CC45SL3AD471JYNN
	560pF	±5%	12.5	5	7.5	445-2794-ND	1.66	2.45	17.50	CC45SL3AD561JYNN
	680pF	±5%	13.5	5	7.5	445-2795-ND	1.66	2.45	17.50	CC45SL3AD681JYNN
	820pF	±5%	14.5	5	7.5	445-2796-ND	1.66	2.45	17.50	CC45SL3AD821JYNN
	1000pF	±5%	16	5	10	445-2797-ND	3.09	4.55	32.50	CC45SL3AD102JYNN
2kV	10pF	±5%	5.5	5	5	445-2798-ND	1.43	2.10	15.00	CC45SL3DD100JYNN
	12pF	±5%	5.5	5	5	445-2799-ND	1.43	2.10	15.00	CC45SL3DD120JYNN
	15pF	±5%	5.5	5	5	445-2800-ND	1.43	2.10	15.00	CC45SL3DD150JYNN
	18pF	±5%	5.5	5	5	445-2801-ND	1.43	2.10	15.00	CC45SL3DD180JYNN
	22pF	±5%	5.5	5	5	445-2802-ND	1.43	2.10	15.00	CC45SL3DD220JYNN
	27pF	±5%	5.5	5	5	445-2803-ND	1.43	2.10	15.00	CC45SL3DD270JYNN
	33pF	±5%	5.5	5	5	445-2804-ND	1.43	2.10	15.00	CC45SL3DD330JYNN
	39pF	±5%	5.5	5	5	445-2805-ND	1.43	2.10	15.00	CC45SL3DD390JYNN
	47pF	±5%	5.5	5	5	445-2806-ND	1.43	2.10	15.00	CC45SL3DD470JYNN
	56pF	±5%	6	5	5	445-2807-ND	1.43	2.10	15.00	CC45SL3DD560JYNN
	68pF	±5%	6.5	5	5	445-2808-ND	1.43	2.10	15.00	CC45SL3DD680JYNN
	82pF	±5%	7	5	5	445-2809-ND	1.43	2.10	15.00	CC45SL3DD820JYNN
	100pF	±5%	7.5	5	5	445-2810-ND	1.43	2.10	15.00	CC45SL3DD101JYNN
	120pF	±5%	8	5	5	445-2811-ND	1.43	2.10	15.00	CC45SL3DD121JYNN
	150pF	±5%	8.5	5	5	445-2812-ND	1.43	2.10	15.00	CC45SL3DD151JYNN
	180pF	±5%	9	5	5	445-2813-ND	1.43	2.10	15.00	CC45SL3DD181JYNN
	220pF	±5%	10	5	5	445-2814-ND	1.43	2.10	15.00	CC45SL3DD221JYNN
	270pF	±5%	11	5	5	445-2815-ND	1.43	2.10	15.00	CC45SL3DD271JYNN
	330pF	±5%	11.5	5	7.5	445-2816-ND	1.43	2.10	15.00	CC45SL3DD331JYNN
	390pF	±5%	12.5	5	7.5	445-2817-ND	1.43	2.10	15.00	CC45SL3DD391JYNN
	470pF	±5%	13.5	5	7.5	445-2818-ND	2.38	3.50	25.00	CC45SL3DD471JYNN
	560pF	±5%	14.5	5	7.5	445-2819-ND	2.38	3.50	25.00	CC45SL3DD561JYNN
	680pF	±5%	16	5	10	445-2820-ND	2.38	3.50	25.00	CC45SL3DD681JYNN
3kV	10pF	±5%	5.5	6	7.5	445-2821-ND	1.43	2.10	15.00	CC45SL3FD100JYNN
	12pF	±5%	5.5	6	7.5	445-2822-ND	1.43	2.10	15.00	CC45SL3FD120JYNN
	15pF	±5%	5.5	6	7.5	445-2823-ND	1.43	2.10	15.00	CC45SL3FD150JYNN
	18pF	±5%	5.5	6	7.5	445-2824-ND	1.43	2.10	15.00	CC45SL3FD180JYNN
	22pF	±5%	5.5	6	7.5	445-2825-ND	1.43	2.10	15.00	CC45SL3FD220JYNN
	27pF	±5%	5.5	6	7.5	445-2826-ND	1.43	2.10	15.00	CC45SL3FD270JYNN
	33pF	±5%	6	6	7.5	445-2827-ND	1.43	2.10	15.00	CC45SL3FD330JYNN
	39pF	±5%	6	6	7.5	445-2828-ND	1.43	2.10	15.00	CC45SL3FD390JYNN
	47pF	±5%	6.5	6	7.5	445-2829-ND	1.43	2.10	15.00	CC45SL3FD470JYNN
	56pF	±5%	7	6	7.5	445-2830-ND	1.43	2.10	15.00	CC45SL3FD560JYNN
	68pF	±5%	7.5	6	7.5	445-2831-ND	1.43	2.10	15.00	CC45SL3FD680JYNN
	82pF	±5%	8	6	7.5	445-2832-ND	1.43	2.10	15.00	CC45SL3FD820JYNN
	100pF	±5%	8.5	6	7.5	445-2833-ND	1.66	2.45	17.50	CC45SL3FD101JYNN
	120pF	±5%	9.5	6	7.5	445-2834-ND	1.66	2.45	17.50	CC45SL3FD121JYNN
	150pF	±5%	10	6	7.5	445-2835-ND	1.90	2.80	20.00	CC45SL3FD151JYNN
	180pF	±5%	11	6	7.5	445-2836-ND	2.38	3.50	25.00	CC45SL3FD181JYNN
	220pF	±5%	12	6	7.5	445-2837-ND	2.85	4.20	30.00	CC45SL3FD221JYNN
	270pF	±5%	13	6	7.5	445-2838-ND	2.85	4.20	30.00	CC45SL3FD271JYNN
	330pF	±5%	14	6	7.5	445-2839-ND	3.56	5.25	37.50	CC45SL3FD331JYNN
	390pF	±5%	15	6	7.5	445-2840-ND	3.56	5.25	37.50	CC45SL3FD391JYNN
6kV	10pF	±5%	7.5	6	7.5	445-2842-ND	1.66	2.45	17.50	CC45SL3JD100JYNN
	12pF	±5%	7.5	6	7.5	445-2843-ND	1.66	2.45	17.50	CC45SL3JD120JYNN
	15pF	±5%	7.5	6	7.5	445-2844-ND	1.66	2.45	17.50	CC45SL3JD150JYNN
	18pF	±5%	7.5	6	7.5	445-2845-ND	1.66	2.45	17.50	CC45SL3JD180JYNN
	22pF	±5%	7.5	6	7.5	445-2846-ND	1.66	2.45	17.50	CC45SL3JD220JYNN
	27pF	±5%	7.5	6	7.5	445-2847-ND	1.66	2.45	17.50	CC45SL3JD270JYNN
	33pF	±5%	7.5	6	7.5	445-2848-ND	1.66	2.45	17.50	CC45SL3JD330JYNN

VISHAY. Vitramon

Multilayer Ceramic Chip Capacitors - Prohibits Surface Arc-over in High Voltage Applications - VJ HVArc Guard™ Series

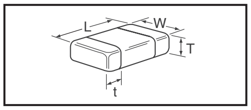

Features: • Protects against surface arc-over • Higher capacitance and smaller case size that save board space • Voltage breakdowns are twice that of some competitor products • Excellent reliability and high voltage performance

Applications: • DC-to-DC converters (Buck and Boost) • Voltage multipliers for flyback converters • Lighting ballast circuits • Power supplies

Electrical Specifications: • Temperature Coefficient of Capacitance: • **X7R:** ≤15% from -55°C ~ 125°C, with 0 Vdc applied • **C0G (NP0):** 0 ±30ppm/°C from -55°C ~ 125°C

Size Code	Dimensions (mm)			
	L	W	T	t
0805	2.00 ±0.20	1.25 ±0.020	1.45	0.25 ~ 0.71
1206	3.20 ±0.20	1.60 ±0.20	1.86	0.25 ~ 0.76
1210	3.20 ±0.20	2.50 ±0.20	1.86	0.25 ~ 0.76
1808	4.50 ±0.25	2.03 ±0.25	1.86	0.25 ~ 0.76
1812	4.50 ±0.25	3.20 ±0.20	2.18	0.25 ~ 0.76

Typical X7R Voltage Breakdown
(n = 50, 500 V/sec. applied)

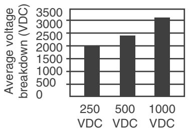

Typical COG (NPO) Voltage Breakdown
(n = 50, 500 V/sec. applied)

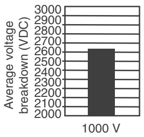

Size Code	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
						10	100	500		Qty.	Pricing	
0805	C0G (NP0)	1,000V	10pF	±5%	720-1070-1-ND	3.07	23.00	88.40	720-1070-2-ND	3,000	153.00/M	VJ0805A100JXGAT5Z
			22pF	±5%	720-1072-1-ND	3.07	23.00	88.40	720-1072-2-ND	3,000	153.00/M	VJ0805A220JXGAT5Z
			47pF	±5%	720-1074-1-ND	3.07	23.00	88.40	720-1074-2-ND	3,000	153.00/M	VJ0805A470JXGAT5Z
			100pF	±5%	720-1071-1-ND	3.07	23.00	88.40	720-1071-2-ND	3,000	153.00/M	VJ0805A101JXGAT5Z
			220pF	±5%	720-1073-1-ND	3.37	25.29	97.23	720-1073-2-ND	3,000	169.00/M	VJ0805A221JXGAT5Z
1206	C0G (NP0)	1,000V	10pF	±5%	720-1010-1-ND	4.38	32.85	126.29	720-1010-2-ND	2,500	219.00/M	VJ1206A100JXGAT5Z
			22pF	±5%	720-1013-1-ND	4.38	32.85	126.29	720-1013-2-ND	2,500	219.00/M	VJ1206A220JXGAT5Z
			47pF	±5%	720-1015-1-ND	4.38	32.85	126.29	720-1015-2-ND	2,500	219.00/M	VJ1206A470JXGAT5Z
			100pF	±5%	720-1011-1-ND	4.38	32.85	126.29	720-1011-2-ND	2,500	219.00/M	VJ1206A101JXGAT5Z
			220pF	±5%	720-1014-1-ND	4.82	36.14	138.92	720-1014-2-ND	2,500	241.00/M	VJ1206A221JXGAT5Z
			470pF	±5%	720-1016-1-ND	4.82	36.14	138.92	720-1016-2-ND	2,500	241.00/M	VJ1206A471JXGAT5Z
			1,000pF	±5%	720-1012-1-ND	5.04	37.78	145.23	720-1012-2-ND	2,500	252.00/M	VJ1206A102JXGAT5Z
	X7R	500V	100pF	±10%	720-1017-1-ND	3.72	27.92	107.35	720-1017-2-ND	2,500	186.00/M	VJ1206Y101KXEAT5Z
			220pF	±10%	720-1023-1-ND	3.72	27.92	107.35	720-1023-2-ND	2,500	186.00/M	VJ1206Y221KXEAT5Z
			470pF	±10%	720-1029-1-ND	3.72	27.92	107.35	720-1029-2-ND	2,500	186.00/M	VJ1206Y471KXEAT5Z
			1,000pF	±10%	720-1019-1-ND	3.37	25.25	97.05	720-1019-2-ND	2,500	168.00/M	VJ1206Y102KXEAT5Z
			2,200pF	±10%	720-1025-1-ND	3.60	27.02	103.89	720-1025-2-ND	2,500	180.00/M	VJ1206Y222KXEAT5Z
			4,700pF	±10%	720-1031-1-ND	3.96	29.72	114.27	720-1031-2-ND	2,500	198.00/M	VJ1206Y472KXEAT5Z
			0.01µF	±10%	720-1021-1-ND	3.96	29.72	114.27	720-1021-2-ND	2,500	198.00/M	VJ1206Y103KXEAT5Z
			0.022µF	±10%	720-1027-1-ND	4.28	32.11	123.44	720-1027-2-ND	2,500	214.00/M	VJ1206Y223KXEAT5Z
			0.047µF	±10%	720-1033-1-ND	5.19	38.90	149.56	720-1033-2-ND	2,500	259.00/M	VJ1206Y473KXEAT5Z
		1,000V	100pF	±10%	720-1018-1-ND	5.59	41.90	161.06	720-1018-2-ND	2,500	279.00/M	VJ1206Y101KXGAT5Z
			220pF	±10%	720-1024-1-ND	5.59	41.90	161.06	720-1024-2-ND	2,500	279.00/M	VJ1206Y221KXGAT5Z
			470pF	±10%	720-1030-1-ND	4.38	32.85	126.29	720-1030-2-ND	2,500	219.00/M	VJ1206Y471KXGAT5Z
			1,000pF	±10%	720-1020-1-ND	3.81	28.55	109.77	720-1020-2-ND	2,500	190.00/M	VJ1206Y102KXGAT5Z
			2,200pF	±10%	720-1026-1-ND	4.14	31.07	119.46	720-1026-2-ND	2,500	207.00/M	VJ1206Y222KXGAT5Z
			4,700pF	±10%	720-1032-1-ND	4.14	31.07	119.46	720-1032-2-ND	2,500	207.00/M	VJ1206Y472KXGAT5Z
			0.01µF	±10%	720-1022-1-ND	5.94	44.57	171.36	720-1022-2-ND	3,000	297.00/M	VJ1206Y103KXGAT5Z
			0.022µF	±10%	720-1028-1-ND	6.42	48.15	185.11	720-1028-2-ND	2,500	321.00/M	VJ1206Y223KXGAT5Z
1210	C0G (NP0)	1,000V	10pF	±5%	720-1034-1-ND	8.22	61.65	237.01	720-1034-2-ND	2,500	411.00/M	VJ1210A100JXGAT5Z
			22pF	±5%	720-1037-1-ND	8.22	61.65	237.01	720-1037-2-ND	2,500	411.00/M	VJ1210A220JXGAT5Z
			47pF	±5%	720-1040-1-ND	8.22	61.65	237.01	720-1040-2-ND	2,500	411.00/M	VJ1210A470JXGAT5Z
			100pF	±5%	720-1035-1-ND	5.83	43.74	168.16	720-1035-2-ND	2,500	292.00/M	VJ1210A101JXGAT5Z
			220pF	±5%	720-1038-1-ND	5.83	43.74	168.16	720-1038-2-ND	2,500	292.00/M	VJ1210A221JXGAT5Z
			470pF	±5%	720-1041-1-ND	6.41	48.11	184.94	720-1041-2-ND	2,500	321.00/M	VJ1210A471JXGAT5Z
			1,000pF	±5%	720-1036-1-ND	6.41	48.11	184.94	720-1036-2-ND	2,500	321.00/M	VJ1210A102JXGAT5Z
			2,200pF	±5%	720-1039-1-ND	7.29	54.68	210.20	720-1039-2-ND	2,500	365.00/M	VJ1210A222JXGAT5Z
	X7R	500V	100pF	±10%	720-1042-1-ND	4.77	35.75	137.45	720-1042-2-ND	2,500	238.00/M	VJ1210Y101KXEAT5Z
			220pF	±10%	720-1048-1-ND	5.03	37.73	145.06	720-1048-2-ND	2,500	252.00/M	VJ1210Y221KXEAT5Z
			470pF	±10%	720-1054-1-ND	5.30	39.74	152.76	720-1054-2-ND	2,500	265.00/M	VJ1210Y471KXEAT5Z
			1,000pF	±10%	720-1044-1-ND	5.30	39.74	152.76	720-1044-2-ND	2,500	265.00/M	VJ1210Y102KXEAT5Z
			2,200pF	±10%	720-1050-1-ND	6.89	51.71	198.78	720-1050-2-ND	2,500	345.00/M	VJ1210Y222KXEAT5Z
			4,700pF	±10%	720-1056-1-ND	6.89	51.71	198.78	720-1056-2-ND	2,500	345.00/M	VJ1210Y472KXEAT5Z
			0.01µF	±10%	720-1046-1-ND	6.06	45.47	174.82	720-1046-2-ND	2,500	303.00/M	VJ1210Y103KXEAT5Z
			0.022µF	±10%	720-1052-1-ND	6.34	47.54	182.77	720-1052-2-ND	2,500	317.00/M	VJ1210Y223KXEAT5Z
			0.047µF	±10%	720-1058-1-ND	9.85	73.87	283.98	720-1058-2-ND	2,500	492.00/M	VJ1210Y473KXEAT5Z
		1,000V	100pF	±10%	720-1043-1-ND	5.25	39.35	151.29	720-1043-2-ND	2,500	262.00/M	VJ1210Y101KXGAT5Z
			220pF	±10%	720-1049-1-ND	5.54	41.56	159.77	720-1049-2-ND	2,500	277.00/M	VJ1210Y221KXGAT5Z
			470pF	±10%	720-1055-1-ND	5.83	43.74	168.16	720-1055-2-ND	2,500	292.00/M	VJ1210Y471KXGAT5Z
			1,000pF	±10%	720-1045-1-ND	5.83	43.74	168.16	720-1045-2-ND	2,500	292.00/M	VJ1210Y102KXGAT5Z
			2,200pF	±10%	720-1051-1-ND	7.26	54.43	209.24	720-1051-2-ND	2,500	363.00/M	VJ1210Y222KXGAT5Z
			4,700pF	±10%	720-1057-1-ND	7.26	54.43	209.24	720-1057-2-ND	2,500	363.00/M	VJ1210Y472KXGAT5Z
			0.01µF	±10%	720-1047-1-ND	7.26	54.43	209.24	720-1047-2-ND	2,500	363.00/M	VJ1210Y103KXGAT5Z
			0.022µF	±10%	720-1053-1-ND	9.51	71.33	274.21	720-1053-2-ND	2,500	476.00/M	VJ1210Y223KXGAT5Z
			0.047µF	±10%	720-1059-1-ND	14.78	110.81	426.01	720-1059-2-ND	2,500	739.00/M	VJ1210Y473KXGAT5Z
1808	X7R	250V	0.10µF	±10%	720-1063-1-ND	11.79	88.43	339.95	720-1063-2-ND	2,500	590.00/M	VJ1808Y104KXPAT5Z
		500V	100pF	±10%	720-1060-1-ND	10.58	79.31	304.91	720-1060-2-ND	2,500	529.00/M	VJ1808Y101KXEAT5Z
			220pF	±10%	720-1064-1-ND	10.58	79.31	304.91	720-1064-2-ND	2,500	529.00/M	VJ1808Y221KXEAT5Z
			470pF	±10%	720-1067-1-ND	10.58	79.31	304.91	720-1067-2-ND	2,500	529.00/M	VJ1808Y471KXEAT5Z
			1,000pF	±10%	720-1061-1-ND	10.58	79.31	304.91	720-1061-2-ND	2,500	529.00/M	VJ1808Y102KXEAT5Z
			2,200pF	±10%	720-1065-1-ND	10.58	79.31	304.91	720-1065-2-ND	2,500	529.00/M	VJ1808Y222KXEAT5Z
			4,700pF	±10%	720-1068-1-ND	10.58	79.31	304.91	720-1068-2-ND	2,500	529.00/M	VJ1808Y472KXEAT5Z
			0.01µF	±10%	720-1062-1-ND	9.39	70.43	270.75	720-1062-2-ND	2,500	470.00/M	VJ1808Y103KXEAT5Z
			0.022µF	±10%	720-1066-1-ND	9.39	70.43	270.75	720-1066-2-ND	2,500	470.00/M	VJ1808Y223KXEAT5Z
			0.047µF	±10%	720-1069-1-ND	10.56	79.20	304.48	720-1069-2-ND	2,500	528.00/M	VJ1808Y473KXEAR5Z
1812	X7R	250V	0.22µF	±10%	720-1006-1-ND	15.30	114.75	441.15	720-1006-2-ND	1,000	765.00	VJ1812Y224KXPAT5Z
		500V	100pF	±10%	720-1000-1-ND	10.58	79.31	304.91	720-1000-2-ND	1,000	529.00	VJ1812Y101KXEAT5Z
			220pF	±10%	720-1004-1-ND	10.58	79.31	304.91	720-1004-2-ND	1,000	529.00	VJ1812Y221KXEAT5Z
			470pF	±10%	720-1007-1-ND	10.58	79.31	304.91	720-1007-2-ND	1,000	529.00	VJ1812Y471KXEAT5Z
			1,000pF	±10%	720-1001-1-ND	10.58	79.31	304.91	720-1001-2-ND	1,000	529.00	VJ1812Y102KXEAT5Z
			2,200pF	±10%	720-1005-1-ND	10.58	79.31	304.91	720-1005-2-ND	1,000	529.00	VJ1812Y222KXEAT5Z
			4,700pF	±10%	720-1008-1-ND	10.58	79.31	304.91	720-1008-2-ND	1,000	529.00	VJ1812Y472KXEAT5Z
			0.01µF	±10%	720-1002-1-ND	9.39	70.43	270.75	720-1002-2-ND	1,000	470.00	VJ1812Y103KXEAT5Z
			0.047µF	±10%	720-1009-1-ND	10.56	79.20	304.48	720-1009-2-ND	1,000	528.00	VJ1812Y473KXEAT5Z
			0.10µF	±10%	720-1003-1-ND	12.69	95.18	365.90	720-1003-2-ND	1,000	635.00	VJ1812Y104KXEAT5Z

Multilayer Ceramic Chip Capacitors - for Boardflex Sensitive Applications - VJ OMD Series

Features:

- OMD-Cap (Open Mode Design) reduce the risk of short or low IR because of board flex cracks
- Efficient low-power consumption, ripple current capable to 1.2 Arms at 100kHz • High Voltage breakdown compared to standard design • Excellent reliability and thermal shock performance
- Polymer terminations, which increase resistance to board flex cracking as much as 50%

Applications:

- Buck and Boost DC-to-DC converters • Voltage multipliers for flyback converters • Lighting ballast circuits • High frequency filtering for switching power supplies

Electrical Specifications:

- Temperature Coefficient of Capacitance: • **X7R:** ±15% from -55°C ~ 125°C, with 0 Vdc applied
- **C0G (NP0):** 0 ±30ppm/°C from -55°C ~ 125°C

Size Code	Dimensions (mm)			
	L	W	T	t
1206	3.20 ±0.20	1.60 ±0.20	1.68	0.25 ~ 0.71
1210	3.20 ±0.20	2.50 ±0.20	1.68	0.25 ~ 0.71
1808	4.57 ±0.25	2.03 ±0.25	1.68	0.25 ~ 0.76
1812	4.50 ±0.25	3.20 ±0.20	2.18	0.25 ~ 0.76
1825	4.50 ±0.25	6.40 ±0.25	2.18	0.25 ~ 0.76
2220	5.59 ±0.20	5.00 ±0.20	2.18	0.25 ~ 0.76
2225	5.59 ±0.25	6.35 ±0.25	2.18	0.25 ~ 0.76

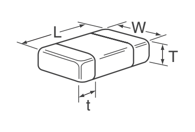

Size Code	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
						10	100	500		Qty.	Pricing	
1206	X7R	100V	4,700pF	±10%	720-1075-1-ND	4.04	30.29	116.43	720-1075-2-ND	3,000	202.00/M	VJ1206Y472KBBAT4X
			0.01µF	±10%	720-1087-1-ND	3.80	28.51	109.60	720-1087-2-ND	2,500	190.00/M	VJ1206Y103KBBAT4X
			0.047µF	±10%	720-1084-1-ND	4.76	35.66	137.10	720-1084-2-ND	2,500	238.00/M	VJ1206Y473KBBAT4X
			0.10µF	±10%	720-1086-1-ND	5.53	41.47	159.42	720-1086-2-ND	2,500	276.00/M	VJ1206Y104KBBAT4X
		500V	470pF	±10%	720-1076-1-ND	4.04	30.29	116.43	720-1076-2-ND	3,000	202.00/M	VJ1206Y471KBEAT4X
			1,000pF	±10%	720-1077-1-ND	3.68	27.61	106.14	720-1077-2-ND	3,000	184.00/M	VJ1206Y102KBEAT4X
			0.022µF	±10%	720-1085-1-ND	4.60	34.47	132.52	720-1085-2-ND	2,500	230.00/M	VJ1206Y223KBEAT4X
1210	X7R	50V	0.47µF	±10%	720-1080-1-ND	14.21	106.54	409.58	720-1080-2-ND	2,500	710.00/M	VJ1210Y474KBAAT4X
		100V	0.01µF	±10%	720-1083-1-ND	6.25	46.85	180.09	720-1083-2-ND	2,500	312.00/M	VJ1210Y103KBBAT4X
			0.10µF	±10%	720-1082-1-ND	7.67	57.49	221.01	720-1082-2-ND	2,500	383.00/M	VJ1210Y104KBBAT4X
			0.22µF	±10%	720-1081-1-ND	10.55	79.11	304.13	720-1081-2-ND	2,500	527.00/M	VJ1210Y224KBBAT4X
1808	X7R	630V	0.01µF	±10%	720-1079-1-ND	12.42	93.17	358.20	720-1079-2-ND	2,500	621.00/M	VJ1808Y103KBLAT4X
		1,000V	4,700pF	±10%	720-1078-1-ND	11.29	84.69	325.59	720-1078-2-ND	2,500	565.00/M	VJ1808Y472KBGAT4X
1812	C0G (NP0)	50V	2,200pF	±10%	720-1109-1-ND	12.59	94.39	362.87	720-1109-2-ND	1,000	629.00	VJ1812A222KBAAT4X
		100V	4,700pF	±10%	720-1108-1-ND	12.59	94.39	362.87	720-1108-2-ND	1,000	629.00	VJ1812A472KBBAT4X
		500V	1,000pF	±10%	720-1110-1-ND	13.83	103.73	398.77	720-1110-2-ND	1,000	692.00	VJ1812A102KBEAT4X
	X7R	100V	0.10µF	±10%	720-1106-1-ND	10.34	77.51	297.99	720-1106-2-ND	1,000	517.00	VJ1812Y104KBBAT4X
			0.47µF	±10%	720-1102-1-ND	15.00	112.50	432.50	720-1102-2-ND	1,000	750.00	VJ1812Y474KBBAT4X
			1.00µF	±10%	720-1105-1-ND	29.51	221.33	850.90	720-1105-2-ND	1,000	1476.00	VJ1812Y105KBBAT4X
		500V	1,000pF	±10%	720-1107-1-ND	11.36	85.16	327.40	720-1107-2-ND	1,000	568.00	VJ1812Y102KBEAT4X
			0.022µF	±10%	720-1104-1-ND	10.17	76.28	293.24	720-1104-2-ND	1,000	509.00	VJ1812Y223KBEAT4X
			0.047µF	±10%	720-1103-1-ND	11.34	85.05	326.97	720-1103-2-ND	1,000	567.00	VJ1812Y473KBEAT4X
1825	C0G (NP0)	100V	0.01µF	±10%	720-1101-1-ND	26.81	201.08	773.05	720-1101-2-ND	1,000	1341.00	VJ1825A103KBBAT4X
	X7R	100V	0.10µF	±10%	720-1099-1-ND	18.34	137.57	528.86	720-1099-2-ND	1,000	917.00	VJ1825Y104KBBAT4X
			1.00µF	±10%	720-1098-1-ND	28.00	209.97	807.22	720-1098-2-ND	1,000	1400.00	VJ1825Y105KBBAT4X
		500V	0.01µF	±10%	720-1100-1-ND	22.20	166.48	640.01	720-1100-2-ND	1,000	1110.00	VJ1825Y103KBEAT4X
			0.22µF	±10%	720-1097-1-ND	17.01	127.58	490.46	720-1097-2-ND	1,000	851.00	VJ1825Y224KBEAT4X
2220	C0G (NP0)	500V	4,700pF	±10%	720-1096-1-ND	26.79	200.90	772.36	720-1096-2-ND	1,000	1339.00	VJ2220A472KBEAT4X
	X7R	100V	1.00µF	±10%	720-1094-1-ND	29.40	220.48	847.61	720-1094-2-ND	1,000	1470.00	VJ2220Y105KBBAT4X
		500V	0.01µF	±10%	720-1095-1-ND	22.00	165.02	634.39	720-1095-2-ND	1,000	1100.00	VJ2220Y103KBEAT4X
			0.22µF	±10%	720-1093-1-ND	30.87	231.50	890.00	720-1093-2-ND	1,000	1543.00	VJ2220Y224KBEAT4X
2225	C0G (NP0)	50V	0.047µF	±10%	720-1091-1-ND	51.01	382.55	1470.67	720-1091-2-ND	1,000	2550.00	VJ2225A473KBAAT4X
		100V	0.022µF	±10%	720-1092-1-ND	47.30	354.76	1363.85	720-1092-2-ND	1,000	2365.00	VJ2225A223KBBAT4X
	X7R	100V	0.47µF	±10%	720-1088-1-ND	26.96	202.21	777.38	720-1088-2-ND	1,000	1348.00	VJ2225Y474KBBAT4X
		200V	1.00µF	±10%	720-1089-1-ND	45.29	339.68	1305.89	720-1089-2-ND	1,000	2265.00	VJ2225Y105KBCAT4X
		500V	0.01µF	±10%	720-1090-1-ND	31.51	236.30	908.42	720-1090-2-ND	1,000	1575.00	VJ2225Y103KBEAT4X

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

YAGEO Surface Mount Ceramic Multilayer Chip Capacitors –

0402, 0603, 0805, 1206, 1812

Digi-Reel® RoHS COMPLIANT

Features:
- High capacitance per unit volume
- For high frequency applications
- NiSn terminations

Applications:
- Consumer electronics
- Telecommunications
- Automotive
- Data processing

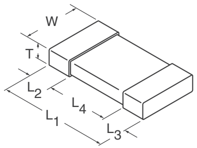

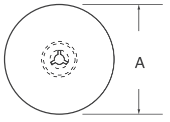

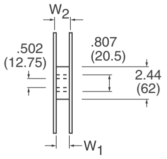

Case Size	L1 Inch (mm)	W Inch (mm)	T		L2 and L3		L4
			Min. Inch (mm)	Max. Inch (mm)	Min. Inch (mm)	Max. Inch (mm)	Min. Inch (mm)
0402	.040 (1.0)	.020 (0.5)	.018 (0.45)	.022 (0.55)	.008 (0.20)	.012 (0.30)	.016 (0.40)
0603	.063 (1.6)	.032 (0.8)	.029 (0.73)	.035 (0.87)	.010 (0.25)	.026 (0.65)	.016 (0.40)
0805	.079 (2.0)	.049 (1.25)	.030 (0.75)	.053 (1.35)	.010 (0.25)	.030 (0.75)	.022 (0.55)
1206	.126 (3.2)	.063 (1.6)	.030 (0.75)	.037 (0.95)	.010 (0.25)	.030 (0.75)	.056 (1.40)
1812	.177 (4.5)	.126 (3.2)	.020 (0.50)	.072 (1.80)	.010 (0.25)	.030 (0.75)	.088 (2.20)

Case Size	Tape Width Inch (mm)	A Inch (mm)	W1 Inch (mm)	W2 Max. Inch (mm)
0402, 0603 0805, 1206	.315 (8)	7.087 (180)	.331 (8.4)	.567 (14.4)
1812	.472 (12)	7.087 (180)	.488 (12.4)	.724 (18.4)

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Yageo Part No.
						10	100	500		Qty.	Pricing	
0402	NPO	50	.5pF	±0.25pF	311-1001-1-ND	.95	5.59	16.13	311-1001-2-ND	10,000	15.48/M	CC0402CRNP09BNR50
		50	1.2pF	±0.25pF	311-1002-1-ND	.99	5.85	16.88	311-1002-2-ND	10,000	16.20/M	CC0402CRNP09BN1R2
		50	1.5pF	±0.25pF	311-1003-1-ND	.99	5.85	16.88	311-1003-2-ND	10,000	16.20/M	CC0402CRNP09BN1R5
		50	1.8pF	±0.25pF	311-1004-1-ND	2.06	12.16	35.06	311-1004-2-ND	10,000	33.66/M	CC0402CRNP09BN1R8
		50	2.0pF	±0.25pF	311-1006-1-ND	2.25	13.27	38.27	311-1006-2-ND	10,000	36.74/M	CC0402CRNP09BN2R0
		50	2.7pF	±0.25pF	311-1005-1-ND	.99	5.85	16.88	311-1005-2-ND	10,000	16.20/M	CC0402CRNP09BN2R7
		50	3.0pF	±0.25pF	311-1007-1-ND	.99	5.85	16.88	311-1007-2-ND	10,000	16.20/M	CC0402CRNP09BN3R0
		50	3.3pF	±0.25pF	311-1008-1-ND	.99	5.85	16.88	311-1008-2-ND	10,000	16.20/M	CC0402CRNP09BN3R3
		50	5.0pF	±0.25pF	311-1010-1-ND	.99	5.85	16.88	311-1010-2-ND	10,000	16.20/M	CC0402CRNP09BN5R0
		50	5.6pF	±0.5pF	311-1011-1-ND	2.32	13.69	39.49	311-1011-2-ND	10,000	37.91/M	CC0402DRNP09BN5R6
		50	8.2pF	±0.5pF	311-1012-1-ND	.99	5.85	16.88	311-1012-2-ND	10,000	16.20/M	CC0402DRNP09BN8R2
		50	9.1pF	±0.5pF	311-1013-1-ND	.70	4.25	14.00	311-1013-2-ND	10,000	18.00/M	CC0402DRNP09BN9R1
		50	10pF	±5%	311-1014-1-ND	.77	4.55	13.13	—	—	—	CC0402JRNP09BN100
		50	10pF	±5%	311-1264-1-ND	.69	4.10	11.81	311-1264-2-ND	10,000	11.00/M	CC0402JRNP09BN100B
		50	11pF	±5%	311-1015-1-ND	1.09	6.44	18.56	—	—	—	CC0402JRNP09BN110
		50	11pF	±5%	311-1265-1-ND	.98	5.79	16.71	311-1265-2-ND	10,000	16.00/M	CC0402JRNP09BN110B
		50	12pF	±5%	311-1016-1-ND	.88	5.20	15.00	—	—	—	CC0402JRNP09BN120
		50	12pF	±5%	311-1266-1-ND	.79	4.68	13.50	311-1266-2-ND	10,000	13.00/M	CC0402JRNP09BN120B
		50	15pF	±5%	311-1017-1-ND	.88	5.20	15.00	—	—	—	CC0402JRNP09BN150
		50	15pF	±5%	311-1267-1-ND	.79	4.68	13.50	311-1267-2-ND	10,000	13.00/M	CC0402JRNP09BN150B
		50	22pF	±5%	311-1018-1-ND	.88	5.20	15.00	—	—	—	CC0402JRNP09BN220
		50	22pF	±5%	311-1268-1-ND	.79	4.68	13.50	311-1268-2-ND	10,000	13.00/M	CC0402JRNP09BN220B
		50	27pF	±5%	311-1019-1-ND	.94	5.53	15.94	—	—	—	CC0402JRNP09BN270
		50	27pF	±5%	311-1269-1-ND	.84	4.97	14.34	311-1269-2-ND	10,000	14.00/M	CC0402JRNP09BN270B
		50	33pF	±5%	311-1270-1-ND	.84	4.97	14.34	311-1270-2-ND	10,000	14.00/M	CC0402JRNP09BN330B
		50	39pF	±5%	311-1009-1-ND	.84	4.94	14.25	—	—	—	CC0402JRNP09BN390
		50	39pF	±5%	311-1263-1-ND	.84	4.94	14.25	311-1263-2-ND	10,000	14.00/M	CC0402JRNP09BN390B
		50	47pF	±5%	311-1021-1-ND	.88	5.20	15.00	—	—	—	CC0402JRNP09BN470
		50	47pF	±5%	311-1271-1-ND	.79	4.68	13.50	311-1271-2-ND	10,000	13.00/M	CC0402JRNP09BN470B
		50	56pF	±5%	311-1022-1-ND	.94	5.53	15.94	—	—	—	CC0402JRNP09BN560
		50	56pF	±5%	311-1272-1-ND	.84	4.97	14.34	311-1272-2-ND	10,000	14.00/M	CC0402JRNP09BN560B
		50	82pF	±5%	311-1023-1-ND	.99	5.85	16.88	—	—	—	CC0402JRNP09BN820
		50	82pF	±5%	311-1273-1-ND	.89	5.27	15.19	311-1273-2-ND	10,000	15.00/M	CC0402JRNP09BN820B
		50	100pF	±5%	311-1024-1-ND	.83	4.88	14.06	—	—	—	CC0402JRNP09BN101
		50	100pF	±5%	311-1274-1-ND	.74	4.39	12.66	311-1274-2-ND	10,000	12.00/M	CC0402JRNP09BN101B
		50	150pF	±5%	311-1025-1-ND	.77	4.68	15.40	—	—	—	CC0402JRNP09BN151
		50	150pF	±5%	311-1275-1-ND	1.09	6.44	18.56	311-1275-2-ND	10,000	18.00/M	CC0402JRNP09BN151B
		25	220pF	±5%	311-1333-1-ND ***NEW!***	.89	5.27	15.19	311-1333-2-ND ***NEW!***	10,000	15.00/M	CC0402JRNP08BN221B
	X7R	50	220pF	±10%	311-1035-1-ND	.77	4.55	13.13	311-1035-2-ND	10,000	12.60/M	CC0402KRX7R9BB221
		50	330pF	±10%	311-1027-1-ND	.77	4.55	13.13	311-1027-2-ND	10,000	12.60/M	CC0402KRX7R9BB331
		50	470pF	±10%	311-1028-1-ND	.77	4.55	13.13	311-1028-2-ND	10,000	12.60/M	CC0402KRX7R9BB471
		50	560pF	±10%	311-1029-1-ND	.77	4.55	13.13	311-1029-2-ND	10,000	12.60/M	CC0402KRX7R9BB561
		50	680pF	±10%	311-1030-1-ND	.77	4.55	13.13	311-1030-2-ND	10,000	12.60/M	CC0402KRX7R9BB681
		50	1200pF	±10%	311-1031-1-ND	.77	4.55	13.13	311-1031-2-ND	10,000	12.60/M	CC0402KRX7R9BB122
		50	1500pF	±10%	311-1032-1-ND	.77	4.55	13.13	311-1032-2-ND	10,000	12.60/M	CC0402KRX7R9BB152
		50	2700pF	±10%	311-1033-1-ND	.77	4.55	13.13	311-1033-2-ND	10,000	12.60/M	CC0402KRX7R9BB272
		50	3300pF	±10%	311-1034-1-ND	.83	4.88	14.06	311-1034-2-ND	10,000	13.50/M	CC0402KRX7R9BB332
		50	1000pF	±10%	311-1036-1-ND	.83	4.88	14.06	311-1036-2-ND	10,000	13.50/M	CC0402KRX7R9BB102
		50	2200pF	±10%	311-1037-1-ND	.77	4.55	13.13	311-1037-2-ND	10,000	12.60/M	CC0402KRX7R9BB222
		25	3900pF	±10%	311-1038-1-ND	.83	4.88	14.06	311-1038-2-ND	10,000	13.50/M	CC0402KRX7R8BB392
		25	4700pF	±10%	311-1039-1-ND	.77	4.55	13.13	311-1039-2-ND	10,000	12.60/M	CC0402KRX7R8BB472
		16	5600pF	±10%	311-1040-1-ND	.77	4.55	13.13	311-1040-2-ND	10,000	12.60/M	CC0402KRX7R7BB562
		16	8200pF	±10%	311-1041-1-ND	.94	5.53	15.94	311-1041-2-ND	10,000	15.30/M	CC0402KRX7R7BB822
		16	10000pF	±10%	311-1042-1-ND	.77	4.55	13.13	311-1042-2-ND	10,000	12.60/M	CC0402KRX7R7BB103
	Y5V	16	22000pF	-20%/+80%	311-1043-1-ND	.86	5.07	14.63	311-1043-2-ND	10,000	14.04/M	CC0402ZRY5V7BB223
		16	33000pF	-20%/+80%	311-1044-1-ND	.88	5.20	15.00	311-1044-2-ND	10,000	14.40/M	CC0402ZRY5V7BB333
		16	10000pF	-20%/+80%	311-1045-1-ND	.74	4.36	12.56	311-1045-2-ND	10,000	12.06/M	CC0402ZRY5V7BB103
		16	47000pF	-20%/+80%	311-1046-1-ND	.94	5.53	15.94	311-1046-2-ND	10,000	15.30/M	CC0402ZRY5V7BB473
		16	.10µF	-20%/+80%	311-1047-1-ND	.88	5.20	15.00	311-1047-2-ND	10,000	14.40/M	CC0402ZRY5V7BB104
0603	NPO	50	.5pF	±0.25pF	311-1048-1-ND	.75	4.42	12.75	311-1048-2-ND	4,000	12.24/M	CC0603CRNP09BNR50
		50	1.0pF	±0.25pF	311-1049-1-ND	.66	3.90	11.25	311-1049-2-ND	4,000	10.80/M	CC0603CRNP09BN1R0
		50	1.5pF	±0.25pF	311-1050-1-ND	.66	3.90	11.25	311-1050-2-ND	4,000	10.80/M	CC0603CRNP09BN1R5
		50	2.0pF	±0.25pF	311-1051-1-ND	.72	4.23	12.19	311-1051-2-ND	4,000	11.70/M	CC0603CRNP09BN2R0
		50	3.0pF	±0.25pF	311-1052-1-ND	.72	4.23	12.19	311-1052-2-ND	4,000	11.70/M	CC0603CRNP09BN3R0
		50	4.0pF	±0.25pF	311-1053-1-ND	.75	4.42	12.75	311-1053-2-ND	4,000	12.24/M	CC0603CRNP09BN4R0
		50	5.0pF	±0.25pF	311-1054-1-ND	.72	4.23	12.19	311-1054-2-ND	4,000	11.70/M	CC0603CRNP09BN5R0
		50	6.0pF	±0.5pF	311-1055-1-ND	.66	3.90	11.25	311-1055-2-ND	4,000	10.80/M	CC0603DRNP09BN6R0
		50	7.0pF	±0.5pF	311-1056-1-ND	.75	4.42	12.75	311-1056-2-ND	4,000	12.24/M	CC0603DRNP09BN7R0
		50	8.0pF	±0.5pF	311-1057-1-ND	.75	4.42	12.75	311-1057-2-ND	4,000	12.24/M	CC0603DRNP09BN8R0
		50	10pF	±5%	311-1058-1-ND	.57	3.38	9.75	311-1058-2-ND	4,000	9.36/M	CC0603JRNP09BN100
		50	10pF	±5%	311-1276-1-ND	.51	3.04	8.78	311-1276-2-ND	4,000	8.00/M	CC0603JRNP09BN100B
		50	12pF	±5%	311-1059-1-ND	.55	3.25	9.38	—	—	—	CC0603JRNP09BN120
		50	12pF	±5%	311-1277-1-ND	.50	2.93	8.44	311-1277-2-ND	4,000	8.00/M	CC0603JRNP09BN120B
		50	15pF	±5%	311-1060-1-ND	.57	3.38	9.75	—	—	—	CC0603JRNP09BN150

(Continued)

YAGEO Surface Mount Ceramic Multilayer Chip Capacitors – 0402, 0603, 0805, 1206, 1812 *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Yageo Part No.
						10	100	500		Qty.	Pricing	
0603	NPO	50	15pF	±5%	311-1278-1-ND	.51	3.04	8.78	311-1278-2-ND	4,000	8.00/M	CC0603JRNP09BN150B
		50	18pF	±5%	311-1061-1-ND	.57	3.38	9.75	—	—	—	CC0603JRNP09BN180
		50	18pF	±5%	311-1279-1-ND	.51	3.04	8.78	311-1279-2-ND	4,000	8.00/M	CC0603JRNP09BN180B
		50	22pF	±5%	311-1062-1-ND	.58	3.45	9.94	311-1062-2-ND	4,000	9.54/M	CC0603JRNP09BN220
		50	22pF	±5%	311-1280-1-ND	.52	3.10	8.94	311-1280-2-ND	4,000	9.00/M	CC0603JRNP09BN220B
		50	27pF	±5%	311-1063-1-ND	.66	3.90	11.25	—	—	—	CC0603JRNP09BN270
		50	27pF	±5%	311-1281-1-ND	.59	3.51	10.13	311-1281-2-ND	4,000	10.00/M	CC0603JRNP09BN270B
		50	33pF	±5%	311-1064-1-ND	.65	3.84	11.06	—	—	—	CC0603JRNP09BN330
		50	33pF	±5%	311-1282-1-ND	.58	3.45	9.96	311-1282-2-ND	4,000	10.00/M	CC0603JRNP09BN330B
		50	47pF	±5%	311-1283-1-ND	.58	3.45	9.96	311-1283-2-ND	4,000	10.00/M	CC0603JRNP09BN470B
		50	56pF	±5%	311-1066-1-ND	.68	4.03	11.63	—	—	—	CC0603JRNP09BN560
		50	56pF	±5%	311-1284-1-ND	.61	3.63	10.46	311-1284-2-ND	4,000	10.00/M	CC0603JRNP09BN560B
		50	68pF	±5%	311-1067-1-ND	.68	4.03	11.63	—	—	—	CC0603JRNP09BN680
		50	68pF	±5%	311-1285-1-ND	.61	3.63	10.46	311-1285-2-ND	4,000	10.00/M	CC0603JRNP09BN680B
		50	82pF	±5%	311-1068-1-ND	.73	4.29	12.38	—	—	—	CC0603JRNP09BN820
		50	82pF	±5%	311-1286-1-ND	.65	3.86	11.14	311-1286-2-ND	4,000	11.00/M	CC0603JRNP09BN820B
		50	100pF	±5%	311-1069-1-ND	.62	3.64	10.50	311-1069-2-ND	4,000	10.08/M	CC0603JRNP09BN101
		50	100pF	±5%	311-1287-1-ND	.55	3.28	9.45	311-1287-2-ND	4,000	9.00/M	CC0603JRNP09BN101B
		50	120pF	±5%	311-1288-1-ND	.65	3.86	11.14	311-1288-2-ND	4,000	11.00/M	CC0603JRNP09BN121B
		50	150pF	±5%	311-1071-1-ND	.86	5.07	14.63	311-1071-2-ND	4,000	14.04/M	CC0603JRNP09BN151
		50	150pF	±5%	311-1289-1-ND	.77	4.56	13.16	311-1289-2-ND	4,000	13.00/M	CC0603JRNP09BN151B
		50	180pF	±5%	311-1072-1-ND	.94	5.53	15.94	—	—	—	CC0603JRNP09BN181
		50	180pF	±5%	311-1290-1-ND	.84	4.97	14.34	311-1290-2-ND	4,000	14.00/M	CC0603JRNP09BN181B
		50	220pF	±5%	311-1073-1-ND	1.02	6.05	17.44	—	—	—	CC0603JRNP09BN221
		50	220pF	±5%	311-1291-1-ND	.92	5.44	15.69	311-1291-2-ND	4,000	15.00/M	CC0603JRNP09BN221B
		50	270pF	±5%	311-1292-1-ND	.99	5.85	16.88	311-1292-2-ND	4,000	16.00/M	CC0603JRNP09BN271B
		50	330pF	±5%	311-1293-1-ND	1.09	6.44	18.56	311-1293-2-ND	4,000	18.00/M	CC0603JRNP09BN331B
		50	390pF	±5%	311-1076-1-ND	.84	5.10	16.80	—	—	—	CC0603JRNP09BN391
		50	390pF	±5%	311-1294-1-ND	1.19	7.02	20.25	311-1294-2-ND	4,000	19.00/M	CC0603JRNP09BN391B
	X7R	50	220pF	±10%	311-1077-1-ND	.55	3.25	9.38	311-1077-2-ND	4,000	9.00/M	CC0603KRX7R9BB221
		50	270pF	±10%	311-1185-1-ND	.55	3.25	9.38	311-1185-2-ND	4,000	9.00/M	CC0603KRX7R9BB271
		50	330pF	±10%	311-1186-1-ND	.55	3.25	9.38	311-1186-2-ND	4,000	9.00/M	CC0603KRX7R9BB331
		50	390pF	±10%	311-1187-1-ND	.55	3.25	9.38	311-1187-2-ND	4,000	9.00/M	CC0603KRX7R9BB391
		50	470pF	±10%	311-1078-1-ND	.55	3.25	9.38	311-1078-2-ND	4,000	9.00/M	CC0603KRX7R9BB471
		50	560pF	±10%	311-1079-1-ND	.55	3.25	9.38	311-1079-2-ND	4,000	9.00/M	CC0603KRX7R9BB561
		50	680pF	±10%	311-1188-1-ND	.55	3.25	9.38	311-1188-2-ND	4,000	9.00/M	CC0603KRX7R9BB681
		50	820pF	±10%	311-1189-1-ND	.55	3.25	9.38	311-1189-2-ND	4,000	9.00/M	CC0603KRX7R9BB821
		50	1000pF	±10%	311-1080-1-ND	.55	3.25	9.38	311-1080-2-ND	4,000	9.00/M	CC0603KRX7R9BB102
		50	1500pF	±10%	311-1184-1-ND	.57	3.38	9.75	311-1184-2-ND	4,000	9.36/M	CC0603KRX7R9BB152
		50	2200pF	±10%	311-1081-1-ND	.55	3.25	9.38	311-1081-2-ND	4,000	9.00/M	CC0603KRX7R9BB222
		50	3300pF	±10%	311-1082-1-ND	.57	3.38	9.75	311-1082-2-ND	4,000	9.36/M	CC0603KRX7R9BB332
		50	4700pF	±10%	311-1083-1-ND	.55	3.25	9.38	311-1083-2-ND	4,000	9.00/M	CC0603KRX7R9BB472
		50	6800pF	±10%	311-1084-1-ND	.54	3.19	9.19	311-1084-2-ND	4,000	8.82/M	CC0603KRX7R9BB682
		50	10000pF	±10%	311-1085-1-ND	.59	3.51	10.13	311-1085-2-ND	4,000	9.72/M	CC0603KRX7R9BB103
		25	22000pF	±10%	311-1086-1-ND	.88	5.20	15.00	311-1086-2-ND	4,000	14.40/M	CC0603KRX7R8BB223
		16	.10µF	±10%	311-1088-1-ND	1.05	6.18	17.81	311-1088-2-ND	4,000	17.10/M	CC0603KRX7R7BB104
	Y5V	25	.10µF	-20%/+80%	311-1087-1-ND	.64	3.77	10.88	311-1087-2-ND	4,000	10.44/M	CC0603ZRY5V8BB104
0805	NPO	50	1.0pF	±0.25pF	311-1089-1-ND	.75	4.42	12.75	311-1089-2-ND	4,000	12.24/M	CC0805CRNP09BN1R0
		50	1.5pF	±0.25pF	311-1090-1-ND	.75	4.42	12.75	311-1090-2-ND	4,000	12.24/M	CC0805CRNP09BN1R5
		50	2.0pF	±0.25pF	311-1091-1-ND	.81	4.81	13.88	311-1091-2-ND	4,000	13.32/M	CC0805CRNP09BN2R0
		50	3.0pF	±0.25pF	311-1092-1-ND	.81	4.81	13.88	311-1092-2-ND	4,000	13.32/M	CC0805CRNP09BN3R0
		50	4.0pF	±0.25pF	311-1093-1-ND	.81	4.81	13.88	311-1093-2-ND	4,000	13.32/M	CC0805CRNP09BN4R0
		50	.50pF	±0.25pF	311-1094-1-ND	.86	5.07	14.63	311-1094-2-ND	4,000	14.04/M	CC0805CRNP09BNR50
		50	6.0pF	±0.5pF	311-1095-1-ND	.81	4.81	13.88	311-1095-2-ND	4,000	13.32/M	CC0805DRNP09BN6R0
		50	7.0pF	±0.5pF	311-1096-1-ND	.81	4.81	13.88	311-1096-2-ND	4,000	13.32/M	CC0805DRNP09BN7R0
		50	8.0pF	±0.5pF	311-1097-1-ND	.81	4.81	13.88	311-1097-2-ND	4,000	13.32/M	CC0805DRNP09BN8R0
		50	9.0pF	±0.5pF	311-1098-1-ND	.81	4.81	13.88	311-1098-2-ND	4,000	13.32/M	CC0805DRNP09BN9R0
		50	10pF	±5%	311-1099-1-ND	.66	3.90	11.25	—	—	—	CC0805JRNP09BN100
		50	10pF	±5%	311-1295-1-ND	.59	3.51	10.13	311-1295-2-ND	4,000	10.00/M	CC0805JRNP09BN100B
		50	12pF	±5%	311-1296-1-ND	.67	3.98	11.48	311-1296-2-ND	4,000	11.00/M	CC0805JRNP09BN120B
		50	15pF	±5%	311-1297-1-ND	.67	3.98	11.48	311-1297-2-ND	4,000	11.00/M	CC0805JRNP09BN150B
		50	18pF	±5%	311-1298-1-ND	.67	3.98	11.48	311-1298-2-ND	4,000	11.00/M	CC0805JRNP09BN180B
		50	22pF	±5%	311-1103-1-ND	.67	3.97	11.44	—	—	—	CC0805JRNP09BN220
		50	22pF	±5%	311-1299-1-ND	.67	3.97	11.44	311-1299-2-ND	4,000	11.00/M	CC0805JRNP09BN220B
		50	27pF	±5%	311-1104-1-ND	.75	4.42	12.75	311-1104-2-ND	4,000	12.24/M	CC0805JRNP09BN270
		50	27pF	±5%	311-1300-1-ND	.67	3.98	11.48	311-1300-2-ND	4,000	11.00/M	CC0805JRNP09BN270B
		50	33pF	±5%	311-1105-1-ND	.76	4.49	12.94	—	—	—	CC0805JRNP09BN330
		50	33pF	±5%	311-1301-1-ND	.68	4.04	11.64	311-1301-2-ND	4,000	11.00/M	CC0805JRNP09BN330B
		50	39pF	±5%	311-1106-1-ND	.77	4.55	13.13	—	—	—	CC0805JRNP09BN390
		50	39pF	±5%	311-1302-1-ND	.69	4.10	11.81	311-1302-2-ND	4,000	11.00/M	CC0805JRNP09BN390B
		50	47pF	±5%	311-1303-1-ND	.70	4.15	11.98	311-1303-2-ND	4,000	12.00/M	CC0805JRNP09BN470B
		50	56pF	±5%	311-1108-1-ND	.81	4.81	13.88	—	—	—	CC0805JRNP09BN560
		50	56pF	±5%	311-1304-1-ND	.73	4.33	12.49	311-1304-2-ND	4,000	12.00/M	CC0805JRNP09BN560B
		50	68pF	±5%	311-1109-1-ND	.83	4.88	14.06	—	—	—	CC0805JRNP09BN680
		50	68pF	±5%	311-1305-1-ND	.74	4.39	12.66	311-1305-2-ND	4,000	12.00/M	CC0805JRNP09BN680B
		50	82pF	±5%	311-1110-1-ND	.99	5.85	16.88	—	—	—	CC0805JRNP09BN820
		50	82pF	±5%	311-1306-1-ND	.89	5.27	15.19	311-1306-2-ND	4,000	15.00/M	CC0805JRNP09BN820B
		50	100pF	±5%	311-1111-1-ND	.95	5.62	16.20	311-1111-2-ND	4,000	15.56/M	CC0805JRNP09BN101
		50	100pF	±5%	311-1307-1-ND	.85	5.03	14.51	311-1307-2-ND	4,000	14.00/M	CC0805JRNP09BN101B
		50	120pF	±5%	311-1308-1-ND	.87	5.15	14.85	311-1308-2-ND	4,000	14.00/M	CC0805JRNP09BN121B
		50	150pF	±5%	311-1113-1-ND	.97	5.72	16.50	—	—	—	CC0805JRNP09BN151
		50	150pF	±5%	311-1309-1-ND	.87	5.15	14.85	311-1309-2-ND	4,000	14.00/M	CC0805JRNP09BN151B
		50	180pF	±5%	311-1310-1-ND	.89	5.27	15.19	311-1310-2-ND	4,000	15.00/M	CC0805JRNP09BN181B
		50	220pF	±5%	311-1115-1-ND	.99	5.85	16.88	311-1115-2-ND	4,000	16.20/M	CC0805JRNP09BN221
		50	220pF	±5%	311-1311-1-ND	.89	5.27	15.19	—	—	—	CC0805JRNP09BN221B
		50	270pF	±5%	311-1116-1-ND	.76	4.59	15.12	311-1116-2-ND	4,000	16.20/M	CC0805JRNP09BN271
		50	270pF	±5%	311-1312-1-ND	1.07	6.32	18.23	311-1312-2-ND	4,000	17.00/M	CC0805JRNP09BN271B
		50	330pF	±5%	311-1117-1-ND	1.01	5.98	17.25	311-1117-2-ND	4,000	16.56/M	CC0805JRNP09BN331
		50	330pF	±5%	311-1313-1-ND	.91	5.38	15.53	311-1313-2-ND	4,000	15.00/M	CC0805JRNP09BN331B
		50	390pF	±5%	311-1118-1-ND	.70	4.25	14.00	—	—	—	CC0805JRNP09BN391
		50	390pF	±5%	311-1314-1-ND	.99	5.85	16.88	311-1314-2-ND	4,000	16.00/M	CC0805JRNP09BN391B
		50	470pF	±5%	311-1119-1-ND	.77	4.68	15.40	—	—	—	CC0805JRNP09BN471
		50	470pF	±5%	311-1315-1-ND	1.09	6.44	18.56	311-1315-2-ND	4,000	18.00/M	CC0805JRNP09BN471B

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Surface Mount Ceramic Multilayer Chip Capacitors – 0402, 0603, 0805, 1206, 1812 *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Yageo Part No.
						10	100	500		Qty.	Pricing	
0805	NPO	50	560pF	±5%	311-1120-1-ND	.84	5.10	16.80	—	—	—	CC0805JRNP09BN561
		50	560pF	±5%	311-1316-1-ND	1.19	7.02	20.25	311-1316-2-ND	4,000	19.00/M	CC0805JRNP09BN561B
		50	680pF	±5%	311-1317-1-ND	1.31	7.72	22.28	311-1317-2-ND	4,000	21.00/M	CC0805JRNP09BN681B
		50	1000pF	±5%	311-1318-1-ND	1.65	9.75	28.13	311-1318-2-ND	4,000	27.00/M	CC0805JRNP09BN102B
	X7R	50	220pF	±10%	311-1123-1-ND	.61	3.58	10.31	311-1123-2-ND	4,000	9.90/M	CC0805KRX7R9BB221
		50	270pF	±10%	311-1191-1-ND	.77	4.55	13.13	311-1191-2-ND	4,000	12.60/M	CC0805KRX7R9BB271
		50	330pF	±10%	311-1192-1-ND	.77	4.55	13.13	311-1192-2-ND	4,000	12.60/M	CC0805KRX7R9BB331
		50	390pF	±10%	311-1193-1-ND	.77	4.55	13.13	311-1193-2-ND	4,000	12.60/M	CC0805KRX7R9BB391
		50	470pF	±10%	311-1124-1-ND	.64	3.77	10.88	311-1124-2-ND	4,000	10.44/M	CC0805KRX7R9BB471
		50	560pF	±10%	311-1125-1-ND	.64	3.77	10.88	311-1125-2-ND	4,000	10.44/M	CC0805KRX7R9BB561
		50	680pF	±10%	311-1126-1-ND	.64	3.77	10.88	311-1126-2-ND	4,000	10.44/M	CC0805KRX7R9BB681
		50	820pF	±10%	311-1194-1-ND	.77	4.55	13.13	311-1194-2-ND	4,000	12.60/M	CC0805KRX7R9BB821
		50	1000pF	±10%	311-1127-1-ND	.64	3.77	10.88	311-1127-2-ND	4,000	10.44/M	CC0805KRX7R9BB102
		50	1500pF	±10%	311-1128-1-ND	.64	3.77	10.88	311-1128-2-ND	4,000	10.44/M	CC0805KRX7R9BB152
		50	2200pF	±10%	311-1129-1-ND	.61	3.58	10.31	311-1129-2-ND	4,000	9.90/M	CC0805KRX7R9BB222
		50	2700pF	±10%	311-1130-1-ND	.61	3.58	10.31	311-1130-2-ND	4,000	9.90/M	CC0805KRX7R9BB272
		50	3300pF	±10%	311-1131-1-ND	.64	3.77	10.88	311-1131-2-ND	4,000	10.44/M	CC0805KRX7R9BB332
		50	3900pF	±10%	311-1132-1-ND	.64	3.77	10.88	311-1132-2-ND	4,000	10.44/M	CC0805KRX7R9BB392
		50	4700pF	±10%	311-1133-1-ND	.64	3.77	10.88	311-1133-2-ND	4,000	10.44/M	CC0805KRX7R9BB472
		50	5600pF	±10%	311-1134-1-ND	.64	3.77	10.88	311-1134-2-ND	4,000	10.44/M	CC0805KRX7R9BB562
		50	6800pF	±10%	311-1135-1-ND	.57	3.38	9.75	311-1135-2-ND	4,000	9.36/M	CC0805KRX7R9BB682
		50	10000pF	±10%	311-1136-1-ND	.66	3.90	11.25	311-1136-2-ND	4,000	10.80/M	CC0805KRX7R9BB103
		50	18000pF	±10%	311-1137-1-ND	.66	3.90	11.25	311-1137-2-ND	4,000	10.80/M	CC0805KRX7R9BB183
		50	22000pF	±10%	311-1138-1-ND	.77	4.55	13.13	311-1138-2-ND	4,000	12.60/M	CC0805KRX7R9BB223
		50	27000pF	±10%	311-1139-1-ND	.83	4.88	14.06	311-1139-2-ND	4,000	13.50/M	CC0805KRX7R9BB273
		50	.10µF	±10%	311-1140-1-ND	.91	5.53	18.20	311-1140-2-ND	4,000	19.50/M	CC0805KRX7R9BB104
		25	.10µF	±10%	311-1141-1-ND	.69	4.21	13.86	311-1141-2-ND	4,000	14.85/M	CC0805KRX7R8BB104
		16	.10µF	±10%	311-1142-1-ND	.82	4.97	16.38	311-1142-2-ND	4,000	17.55/M	CC0805KRX7R7BB104
		50	15000pF	±10%	311-1143-1-ND	.66	3.90	11.25	311-1143-2-ND	4,000	10.80/M	CC0805KRX7R9BB153
	Y5V	10	3.3µF	±20%+80%	311-1190-1-ND	1.75	11.78	39.90	311-1190-2-ND	3,000	51.30/M	CC0805ZKY5V6BB335
1206	NPO	50	.5pF	±0.25pF	311-1145-1-ND	.98	5.95	19.60	311-1145-2-ND	4,000	21.00/M	CC1206CRNP09BNR50
		50	1pF	±0.25pF	311-1212-1-ND	.92	6.20	21.00	311-1212-2-ND	4,000	27.00/M	CC1206CRNP09BN1R0
		50	1.5pF	±0.25pF	311-1214-1-ND	.92	6.20	21.00	311-1214-2-ND	4,000	27.00/M	CC1206CRNP09BN1R5
		50	1.8pF	±0.25pF	311-1215-1-ND	.92	6.20	21.00	311-1215-2-ND	4,000	27.00/M	CC1206CRNP09BN1R8
		50	2.2pF	±0.25pF	311-1146-1-ND	.95	5.78	19.04	311-1146-2-ND	4,000	20.40/M	CC1206CRNP09BN2R2
		50	2.7pF	±0.25pF	311-1216-1-ND	.92	6.20	21.00	311-1216-2-ND	4,000	27.00/M	CC1206CRNP09BN2R7
		50	3.3pF	±0.25pF	311-1147-1-ND	.95	5.74	18.90	311-1147-2-ND	4,000	20.25/M	CC1206CRNP09BN3R3
		50	3.9pF	±0.25pF	311-1217-1-ND	.92	6.20	21.00	311-1217-2-ND	4,000	27.00/M	CC1206CRNP09BN3R9
		50	4.7pF	±0.25pF	311-1218-1-ND	.92	6.20	21.00	311-1218-2-ND	4,000	27.00/M	CC1206CRNP09BN4R7
		50	5.6pF	±0.25pF	311-1149-1-ND	.95	5.74	18.90	311-1149-2-ND	4,000	20.25/M	CC1206CRNP09BN5R6
		50	6.8pF	±0.5pF	311-1220-1-ND	.92	6.20	21.00	311-1220-2-ND	4,000	27.00/M	CC1206DRNP09BN6R8
		50	7.5pF	±0.5pF	311-1221-1-ND	1.04	6.98	23.63	—	—	—	CC1206DRNP09BN7R5
		50	8.2pF	±0.5pF	311-1222-1-ND	.92	6.20	21.00	311-1222-2-ND	4,000	27.00/M	CC1206DRNP09BN8R2
		50	9.1pF	±0.5pF	311-1223-1-ND	1.15	7.75	26.25	311-1223-2-ND	4,000	33.75/M	CC1206DRNP09BN9R1
		50	10pF	±5%	311-1319-1-ND	1.28	7.55	21.77	311-1319-2-ND	4,000	21.00/M	CC1206JRNP09BN100B
		50	12pF	±5%	311-1213-1-ND	1.33	8.08	26.60	—	—	—	CC1206JRNP09BN120
		50	12pF	±5%	311-1332-1-ND	1.88	11.12	32.06	311-1332-2-ND	4,000	31.00/M	CC1206JRNP09BN120B
		50	15pF	±5%	311-1320-1-ND	2.29	13.51	38.96	311-1320-2-ND	4,000	37.00/M	CC1206JRNP09BN150B
		50	18pF	±5%	311-1152-1-ND	1.70	10.33	34.02	—	—	—	CC1206JRNP09BN180
		50	18pF	±5%	311-1321-1-ND	2.67	15.80	45.56	311-1321-2-ND	4,000	44.00/M	CC1206JRNP09BN180B
		50	20pF	±5%	311-1153-1-ND	.95	5.74	18.90	311-1153-2-ND	4,000	20.25/M	CC1206JRNP09BN200
		50	22pF	±5%	311-1322-1-ND	1.53	9.04	26.06	311-1322-2-ND	4,000	25.00/M	CC1206JRNP09BN220B
		50	27pF	±5%	311-1323-1-ND	2.74	16.19	46.71	311-1323-2-ND	4,000	45.00/M	CC1206JRNP09BN270B
		50	33pF	±5%	311-1156-1-ND	1.35	8.22	27.08	—	—	—	CC1206JRNP09BN330
		50	33pF	±5%	311-1324-1-ND	2.13	12.57	36.26	311-1324-2-ND	4,000	35.00/M	CC1206JRNP09BN330B
		50	39pF	±5%	311-1157-1-ND	1.08	6.53	21.50	—	—	—	CC1206JRNP09BN390
		50	39pF	±5%	311-1325-1-ND	1.69	9.98	28.80	311-1325-2-ND	4,000	28.00/M	CC1206JRNP09BN390B
		50	47pF	±5%	311-1158-1-ND	.98	5.95	19.60	311-1158-2-ND	4,000	21.00/M	CC1206JRNP09BN470
		50	47pF	±5%	311-1326-1-ND	1.39	8.19	23.63	311-1326-2-ND	4,000	23.00/M	CC1206JRNP09BN470B
		50	51pF	±5%	311-1219-1-ND	1.56	10.54	35.70	311-1219-2-ND	4,000	45.90/M	CC1206JRNP09BN510
		50	56pF	±5%	311-1159-1-ND	1.17	7.12	23.46	—	—	—	CC1206JRNP09BN560
		50	56pF	±5%	311-1327-1-ND	1.84	10.89	31.43	311-1327-2-ND	4,000	30.00/M	CC1206JRNP09BN560B
		50	68pF	±5%	311-1328-1-ND	1.58	9.36	27.00	311-1328-2-ND	4,000	26.00/M	CC1206JRNP09BN680B
		50	100pF	±5%	311-1329-1-ND	1.49	8.78	25.31	311-1329-2-ND	4,000	24.00/M	CC1206JRNP09BN101B
		50	120pF	±5%	311-1162-1-ND	1.17	7.11	23.42	—	—	—	CC1206JRNP09BN121
		50	120pF	±5%	311-1330-1-ND	1.84	10.87	31.37	311-1330-2-ND	4,000	30.00/M	CC1206JRNP09BN121B
		50	1000pF	±5%	311-1331-1-ND	2.38	14.04	40.50	311-1331-2-ND	4,000	39.00/M	CC1206JRNP09BN102B
	X7R	1KV	1000pF	±10%	311-1144-1-ND	1.99	14.20	51.12	311-1144-2-ND	3,000	73.84/M	CC1206KKX7RCBB102
		50	220pF	±10%	311-1164-1-ND	.90	5.48	18.06	311-1164-2-ND	4,000	19.35/M	CC1206KRX7R9BB221
		50	270pF	±10%	311-1165-1-ND	.90	5.48	18.06	311-1165-2-ND	4,000	19.35/M	CC1206KRX7R9BB271
		50	330pF	±10%	311-1166-1-ND	.90	5.48	18.06	311-1166-2-ND	4,000	19.35/M	CC1206KRX7R9BB331
		50	390pF	±10%	311-1205-1-ND	.98	5.95	19.60	311-1205-2-ND	4,000	21.00/M	CC1206KRX7R9BB391
		50	470pF	±10%	311-1167-1-ND	.84	5.10	16.80	311-1167-2-ND	4,000	18.00/M	CC1206KRX7R9BB471
		50	560pF	±10%	311-1168-1-ND	.84	5.10	16.80	311-1168-2-ND	4,000	18.00/M	CC1206KRX7R9BB561
		50	680pF	±10%	311-1169-1-ND	.84	5.10	16.80	311-1169-2-ND	4,000	18.00/M	CC1206KRX7R9BB681
		50	820pF	±10%	311-1210-1-ND	.95	5.74	18.90	311-1210-2-ND	4,000	20.25/M	CC1206KRX7R9BB821
		50	1000pF	±10%	311-1170-1-ND	.84	5.10	16.80	311-1170-2-ND	4,000	18.00/M	CC1206KRX7R9BB102
		50	1200pF	±10%	311-1197-1-ND	.98	5.95	19.60	311-1197-2-ND	4,000	21.00/M	CC1206KRX7R9BB122
		50	1500pF	±10%	311-1200-1-ND	.98	5.95	19.60	311-1200-2-ND	4,000	21.00/M	CC1206KRX7R9BB152
		50	1800pF	±10%	311-1201-1-ND	.98	5.95	19.60	311-1201-2-ND	4,000	21.00/M	CC1206KRX7R9BB182
		50	2200pF	±10%	311-1171-1-ND	.90	5.48	18.06	311-1171-2-ND	4,000	19.35/M	CC1206KRX7R9BB222
		50	2700pF	±10%	311-1203-1-ND	.98	5.95	19.60	311-1203-2-ND	4,000	21.00/M	CC1206KRX7R9BB272
		50	3300pF	±10%	311-1172-1-ND	.90	5.48	18.06	311-1172-2-ND	4,000	19.35/M	CC1206KRX7R9BB332
		50	3900pF	±10%	311-1206-1-ND	.98	5.95	19.60	311-1206-2-ND	4,000	21.00/M	CC1206KRX7R9BB392
		50	4700pF	±10%	311-1173-1-ND	.84	5.10	16.80	311-1173-2-ND	4,000	18.00/M	CC1206KRX7R9BB472
		50	5600pF	±10%	311-1208-1-ND	1.05	6.38	21.00	311-1208-2-ND	4,000	22.50/M	CC1206KRX7R9BB562
		50	6800pF	±10%	311-1209-1-ND	1.05	6.38	21.00	311-1209-2-ND	4,000	22.50/M	CC1206KRX7R9BB682
		50	8200pF	±10%	311-1211-1-ND	1.12	6.80	22.40	311-1211-2-ND	4,000	24.00/M	CC1206KRX7R9BB822
		50	10000pF	±10%	311-1174-1-ND	.84	5.10	16.80	311-1174-2-ND	4,000	18.00/M	CC1206KRX7R9BB103
		50	12000pF	±10%	311-1198-1-ND	1.87	11.34	37.35	311-1198-2-ND	4,000	40.02/M	CC1206KRX7R9BB123
		50	15000pF	±10%	311-1175-1-ND	.90	5.48	18.06	311-1175-2-ND	4,000	19.35/M	CC1206KRX7R9BB153

(Continued)

YAGEO Surface Mount Ceramic Multilayer Chip Capacitors – 0402, 0603, 0805, 1206, 1812 *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Yageo Part No.
1206	X7R	50	18000pF	±10%	311-1202-1-ND	1.33	8.08	26.60	311-1202-2-ND	4,000	28.50/M	CC1206KRX7R9BB183
		50	22000pF	±10%	311-1176-1-ND	.97	5.91	19.46	311-1176-2-ND	4,000	20.85/M	CC1206KRX7R9BB223
		50	27000pF	±10%	311-1204-1-ND	.92	6.20	21.00	311-1204-2-ND	4,000	27.00/M	CC1206KRX7R9BB273
		50	33000pF	±10%	311-1177-1-ND	.90	5.48	18.06	311-1177-2-ND	4,000	19.35/M	CC1206KRX7R9BB333
		50	39000pF	±10%	311-1207-1-ND	.92	6.20	21.00	311-1207-2-ND	4,000	27.00/M	CC1206KRX7R9BB393
		50	47000pF	±10%	311-1178-1-ND	1.04	6.33	20.86	311-1178-2-ND	4,000	22.35/M	CC1206KRX7R9BB473
		50	.10µF	±10%	311-1179-1-ND	.98	5.95	19.60	311-1179-2-ND	4,000	21.00/M	CC1206KRX7R9BB104
		25	.33µF	±10%	311-1180-1-ND	2.30	16.23	56.05	311-1180-2-ND	3,000	76.70/M	CC1206KKX7R8BB334
		16	1.0µF	±10%	311-1181-1-ND	2.45	17.50	63.00	311-1181-2-ND	3,000	91.00/M	CC1206KKX7R7BB105
		10	1.2µF	±10%	311-1199-1-ND	3.08	22.00	79.20	311-1199-2-ND	4,000	114.40/M	CC1206KRX7R6BB125
	Y5V	16	3.3µF	±20%+80%	311-1196-1-ND	1.75	11.78	39.90	311-1196-2-ND	3,000	51.30/M	CC1206ZKY5V7BB335
1812	NP0	3KV	220pF	±5%	311-1182-1-ND	6.08	44.65	161.50	311-1182-2-ND	1,500	247.00/M	CC1812JKNP0EBN221
	X7R	1KV	1000pF	±10%	311-1183-1-ND	4.42	32.43	117.30	311-1183-2-ND	1,000	179.40	CC1812KKX7RCBB102

X2Y® Series Surface Mount Ceramic EMI Filter Capacitors

Features: • Broadband Filtering and Decoupling: Effective up to 10 GHz and frequencies beyond • Ultra Low ESL: Noise cancellation makes ESL reduce from nanohenry to picohenry levels • Bypass: Unlike feedthrough capacitors, X2Y is in bypass, so no DC current limitations • Matched Y-caps: Two tightly matched line to ground capacitors in one device • Superior Balance: Temperature and voltage variations balanced of two Y-caps • Aging Reliability: Aging effects are equal on two Y-caps

Benefits: • Fewer Component in Filtering: Can replace multiple inductors and/or capacitors • Superior Performance in Filtering: Can eliminate both differential and common mode noises • Fewer Component in Decoupling: Up to 1:7 replacement of MLCC in power delivering system bypass networks • Superior Performance in Decoupling: Large or small, X2Y components exhibit ultra low ESL • Total Cost Savings: Assembly cost savings through reduced component count and placement costs • Board Level Design Advantages: Dramatically reduces via drills, which blocks routing

Applications: • EMI filtering on DC motors • Filtered connectors (airbag connectors, RJ-45 connectors) • High speed data-line filtering • Decoupling of supply-lines in high speed digital circuits • Broadband filtering • Amplifier decoupling and EMI suppression • IC Decoupling, on-package, on PCB • DC power line filtering • Data line filtering • EMI suppression for DC motors • Sensors • Audio

Fig. 1

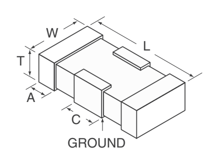

Fig. 2

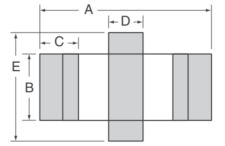

Fig. 1 — Dimensions in Inch (mm)

Case Size	L	W	T Min.	T Max.	A Min.	A Max.	C Min.
0603	0.063 (1.6)	0.033 (0.85)	0.022 (0.55)	0.030 (0.75)	0.010 (0.25)	0.022 (0.55)	0.016 (0.40)
0805	0.079 (2.0)	0.049 (1.25)	0.030 (0.75)	0.037 (0.95)	0.010 (0.25)	0.022 (0.55)	0.028 (0.70)
1206	0.126 (3.2)	0.065 (1.65)	0.043 (1.10)	0.055 (1.40)	0.010 (0.25)	0.026 (0.65)	0.047 (1.20)
1210	0.126 (3.2)	0.098 (2.5)	0.043 (1.10)	0.067 (1.70)	0.010 (0.25)	0.026 (0.65)	0.047 (1.20)

Fig. 2 — Reflow Soldering

Case Size	Footprint Dimensions (mm) A	B	C	D	E	Placement Accuracy (mm)
0603	2.30	0.75	0.64	0.51	1.52	±0.20
0805	3.05	1.27	0.89	0.56	2.03	±0.20
1206	4.06	1.65	1.00	1.02	3.05	±0.25
1210	4.57	2.55	1.00	1.14	4.06	±0.25

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Yageo Part No.
0603	X5R	10	.22µF	±20%	311-1248-1-ND	8.75	53.10	174.93	311-1248-2-ND	4,000	187.00/M	CX0603MRX5R6BB224
			.33µF	±20%	311-1255-1-ND	8.75	53.10	174.93	311-1255-2-ND	4,000	187.00/M	CX0603MRX5R6BB334
0603	X7R	100	1000pF	±20%	311-1259-1-ND	4.12	24.99	82.32	311-1259-2-ND	4,000	88.00/M	CX0603MRX7R0BB102
		100	1500pF	±20%	311-1260-1-ND	4.12	24.99	82.32	311-1260-2-ND	4,000	88.00/M	CX0603MRX7R0BB152
		100	2200pF	±20%	311-1249-1-ND	4.12	24.99	82.32	311-1249-2-ND	4,000	88.00/M	CX0603MRX7R0BB222
		100	4700pF	±20%	311-1250-1-ND	4.12	24.99	82.32	311-1250-2-ND	4,000	88.00/M	CX0603MRX7R0BB472
		50/63	10000pF	±20%	311-1233-1-ND	5.15	31.24	102.90	311-1233-2-ND	4,000	110.00/M	CX0603MRX7R9BB103
		25	22000pF	±20%	311-1234-1-ND	5.15	31.24	102.90	311-1234-2-ND	4,000	110.00/M	CX0603MRX7R8BB223
		16	47000pF	±20%	311-1235-1-ND	6.17	37.49	123.48	311-1235-2-ND	4,000	132.00/M	CX0603MRX7R7BB473
		16	56000pF	±20%	311-1236-1-ND	6.17	37.49	123.48	311-1236-2-ND	4,000	132.00/M	CX0603MRX7R7BB563
		10	.1µF	±20%	311-1237-1-ND	7.20	43.73	144.06	311-1237-2-ND	4,000	154.00/M	CX0603MRX7R6BB104
0805	X7R	100	4700pF	±20%	311-1238-1-ND	5.15	31.24	102.90	311-1238-2-ND	4,000	110.00/M	CX0805MRX7R0BB472
		100	10000pF	±20%	311-1239-1-ND	5.15	31.24	102.90	311-1239-2-ND	4,000	110.00/M	CX0805MRX7R0BB103
		50/63	15000pF	±20%	311-1240-1-ND	7.72	46.86	154.35	311-1240-2-ND	4,000	165.00/M	CX0805MRX7R9BB153
		50/63	18000pF	±20%	311-1241-1-ND	7.72	46.86	154.35	311-1241-2-ND	4,000	165.00/M	CX0805MRX7R9BB183
		25	22000pF	±20%	311-1242-1-ND	7.72	46.86	154.35	311-1242-2-ND	4,000	165.00/M	CX0805MRX7R8BB223
		25	39000pF	±20%	311-1243-1-ND	7.72	46.86	154.35	311-1243-2-ND	4,000	165.00/M	CX0805MRX7R8BB393
		16	47000pF	±20%	311-1244-1-ND	7.72	46.86	154.35	311-1244-2-ND	4,000	165.00/M	CX0805MRX7R7BB473
		16	.1µF	±20%	311-1245-1-ND	8.23	49.98	164.64	311-1245-2-ND	4,000	176.00/M	CX0805MRX7R7BB104
		10	.18µF	±20%	311-1246-1-ND	8.23	49.98	164.64	311-1246-2-ND	4,000	176.00/M	CX0805MRX7R6BB184
1206	X7R	50/63	.1µF	±20%	311-1261-1-ND	10.29	62.48	205.80	311-1261-2-ND	2,500	221.00/M	CX1206MKX7R9BB104
		16	.22µF	±20%	311-1252-1-ND	7.20	43.73	144.06	311-1252-2-ND	2,500	154.00/M	CX1206MKX7R7BB224
		10	.47µF	±20%	311-1251-1-ND ***NEW!***	8.23	49.98	164.64	311-1251-2-ND ***NEW!***	2,500	176.00/M	CX1206MKX7R6BB474
1210	X7R	50/63	.1µF	±20%	311-1262-1-ND	10.29	62.48	205.80	311-1262-2-ND	2,500	221.00/M	CX1210MKX7R9BB104
		16	1µF	±20%	311-1253-1-ND ***NEW!***	9.78	59.35	195.51	311-1253-2-ND ***NEW!***	2,500	209.00/M	CX1210MKX7R7BB105

EPCOS Multilayer Ceramic Chip Capacitors

Features: • Characteristic of class 2 dielectric • Highest possible capacitance to rated voltage ratio • Built to AEC-Q200 standard

Application: • Coupling and bypass filters

Termination: • Nickel barrier

Specifications: • Climatic category: 55/125/56 • Insulation resistance @ 25°C >10^4

Operating Temperature Range: -55 ~ 125°C

Case Size	Dimensions (mm) L	W	e	T
0402	1.00	0.50	.1 ~ .4	0.5
1206	3.20	1.60	.25 ~ .75	1.80 max.

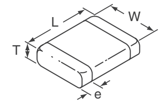

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Epcos Part No.
0402	X7R	16	.10µF	10%	495-3265-1-ND	.13	.98	6.75	495-3265-2-ND	10,000	5.00/M	B37921C9104K60
1206	X5R	16	4.7µF	10%	495-3261-1-ND	1.79	13.65	94.50	495-3261-2-ND	2,000	63.00/M	B37572C9475K062

CDE CORNELL DUBILIER MC Series Multilayer SMT Mica RF Capacitors

Type MC capacitors are the answer for high frequency public-service and military radio communication, flight radio and cable television. The natural mica dielectric retains its high-Q to many megahertz, so higher frequency applications are limited by the circuit inductance-not the type MC capacitor. FR4 compatibility and natural robustness offer freedom from the thermal cracking found with other RF capacitors.

Features:
• Ultra stable-no change in capacitance with frequency, voltage or temperature • Free from thermal cracking • High RF Current dV/dt 20,000 V/us • Very high Q • Very low ESL and ESR • Wave Solderable

Specifications:
Temperature Range: -55°C ~ 125°C with no voltage derating

Applications:
• MRI RF coils • RF Instruments and Communications • 2-way mobile radio • Tuned circuits • CATV • Plasma generators for medical and IC manufacturing

Case Type	Dimensions: Inch (mm)			
	L	W	H	I (Max.)
0805	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)
1210	.126 (3.2)	.098 (2.5)	.079 (2.0)	.043 (1.1)
1812	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)
2220	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)

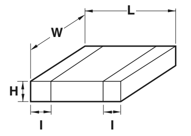

Tape and Reel packaging available with lead time.

Size Code	Vdc	Capaci-tance	Toler-ance	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
0805	100	1.0pF	±0.5%	338-1339-NDΔ	1.09	.93	.78	MC08CA010D-F
		2.0pF	±0.5%	338-1096-ND	1.09	.93	.78	MC08CA020D-F
		3.0pF	±0.5%	338-1097-ND	1.09	.93	.78	MC08CA030D-F
		5.0pF	±0.5%	338-1098-NDΔ	1.09	.93	.78	MC08CA050D-F
		10pF	±0.5%	338-1099-NDΔ	1.09	.93	.78	MC08CA100D-F
		15pF	±5%	338-1100-ND	1.09	.93	.78	MC08EA150J-F
		20pF	±5%	338-1101-ND	1.09	.93	.78	MC08EA200J-F
		22pF	±5%	338-1102-NDΔ	1.09	.93	.78	MC08EA220J-F
		27pF	±5%	338-1103-ND	1.09	.93	.78	MC08EA270J-F
		30pF	±5%	338-1340-NDΔ	1.09	.93	.78	MC08EA300J-F
1210	500	5.0pF	±0.5%	338-1104-ND•	1.37	1.17	.98	MC12CD050D-F
		10pF	±0.5%	338-1105-ND•	1.37	1.17	.98	MC12CD100D-F
		15pF	±5%	338-1106-ND•	1.40	1.20	1.00	MC12ED150J-F
		18pF	±5%	338-1107-ND	1.40	1.20	1.00	MC12ED180J-F
		30pF	±5%	338-1344-ND	1.40	1.20	1.00	MC12ED300J-F
		33pF	±5%	338-1117-ND•	1.40	1.20	1.00	MC12FD330J-F
		47pF	±5%	338-1118-ND•	1.40	1.20	1.00	MC12FD470J-F
		62pF	±5%	338-1119-ND	1.40	1.20	1.00	MC12FD620J-F
		68pF	±5%	338-1120-ND•	1.40	1.20	1.00	MC12FD680J-F
		100pF	±5%	338-1116-ND•	1.68	1.44	1.20	MC12FD101J-F
	100	47pF	±5%	338-1114-NDΔ	1.26	1.08	.90	MC12FA470J-F
		82pF	±5%	338-1341-NDΔ	1.26	1.08	.90	MC12FA820J-F
		100pF	±5%	338-1108-NDΔ	1.37	1.17	.98	MC12FA101J-F
		150pF	±1%	338-1109-ND	3.33	2.85	2.38	MC12FA151F-F
		150pF	±5%	338-1110-ND	1.40	1.20	1.00	MC12FA151J-F
		200pF	±5%	338-1111-ND	1.51	1.29	1.08	MC12FA201J-F
		220pF	±5%	338-1112-ND	1.51	1.29	1.08	MC12FA221J-F
		240pF	±5%	338-1113-ND	1.51	1.29	1.08	MC12FA241J-F

Size Code	Vdc	Capaci-tance	Toler-ance	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
1812	500	100pF	±5%	338-1122-ND	1.68	1.44	1.20	MC18FD101J-F
		120pF	±5%	338-1123-ND	1.68	1.44	1.20	MC18FD121J-F
		180pF	±5%	338-1345-ND	1.79	1.53	1.28	MC18FD181J-F
		220pF	±5%	338-1124-ND•	1.89	1.62	1.35	MC18FD221J-F
		300pF	±5%	338-1125-ND	2.07	1.77	1.48	MC18FD301J-F
		330pF	±5%	338-1126-ND•	2.07	1.77	1.48	MC18FD331J-F
		390pF	±5%	338-1127-ND	2.35	2.01	1.68	MC18FD391J-F
		470pF	±5%	338-1128-ND•	2.35	2.01	1.68	MC18FD471J-F
	100	470pF	±5%	338-1121-NDΔ	2.00	1.71	1.43	MC18FA471J-F
		750pF	±5%	338-1342-ND	2.21	1.89	1.58	MC18FA751J-F
2220	1000	100pF	±5%	338-1348-ND§	2.46	2.12	1.76	MC22FF101J-F
		220pF	±5%	338-1349-ND§	2.89	2.48	2.07	MC22FF221J-F
		330pF	±5%	338-1350-ND§	3.13	2.68	2.24	MC22FF331J-F
		390pF	±5%	338-1351-ND	3.21	2.76	2.30	MC22FF391J-F
		430pF	±5%	338-1135-ND	3.21	2.76	2.30	MC22FF431J-F
		470pF	±5%	338-1136-ND§	3.21	2.76	2.30	MC22FF471J-F
		560pF	±5%	338-1352-ND§	3.53	3.03	2.52	MC22FF561J-F
		1000pF	±5%	338-1134-ND§	4.33	3.71	3.09	MC22FF102J-F
		1500pF	±5%	338-1353-ND§	5.22	4.48	3.73	MC22FF152J-F
	500	500pF	±5%	338-1132-ND	2.87	2.46	2.05	MC22FD501J-F
		680pF	±5%	338-1346-ND	3.22	2.76	2.30	MC22FD681J-F
		750pF	±5%	338-1133-ND	3.22	2.76	2.30	MC22FD751J-F
		1000pF	±5%	338-1131-ND•	3.61	3.09	2.58	MC22FD102J-F
	100	1000pF	±5%	338-1129-NDΔ	3.15	2.70	2.25	MC22FA102J-F
		2000pF	±5%	338-1130-ND	4.17	3.57	2.98	MC22FA202J-F

Δ **338-1354-ND** (MCF100VKIT4) Mica Cap Kit 5 each of marked values.................................. **$37.08**
• **338-1355-ND** (MCF500VKIT5) Mica Cap Kit 5 each of marked values.................................. **$49.43**
§ **338-1356-ND** (MCF1000VKIT6) Mica Cap Kit 5 each of marked values.................................. **$61.98**

MCM and MIN Series Multilayer RF Clad Capacitors

Types MCM and MIN metal clad PTFE and mica capacitors are top performers for high power applications requiring low inductance at high frequencies.

Features:
• 200°C rated with no voltage derating • Low ESR for RF power applications • Nonmagnetic for minimal RF loss • High frequency operation into the GHz range • Very low ESL for excellent bypass action • Ultra-low dielectric absorption for ≤32pF • Ultra stable: no change with temperature, voltage and frequency

Specifications:
• Temperature Range: -55°C ~ 200°C with no voltage derating • Dielectric Strength: 200% of rated voltage for 5 seconds • Insulation Resistance: 1,000MΩ/μF Need not exceed 100,000MΩ at 25°C • Typical Q's: >2,000

Fig. 1

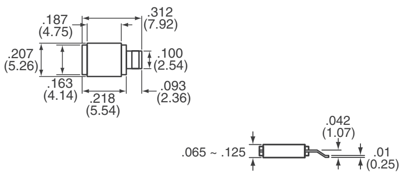

Fig. 2

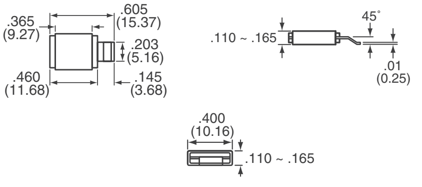

Fig.	VDC	Capacitance	Tolerance	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
1	300	12	5%	338-1285-ND	1.42	1.22	1.02	MIN02-002CC120J-F
		20	5%	338-1289-ND	1.42	1.22	1.02	MIN02-002CC200J-F
		22	5%	338-1290-ND†	1.42	1.22	1.02	MIN02-002DC220J-F
		25	5%	338-1292-ND	1.42	1.22	1.02	MIN02-002DC250J-F
		33	5%	338-1296-ND†	1.42	1.22	1.02	MIN02-002DC330J-F
		35	5%	338-1297-ND	1.42	1.22	1.02	MIN02-002DC350J-F
		50	5%	338-1302-ND	1.42	1.22	1.02	MIN02-002DC500J-F
		150	5%	338-1308-ND†	2.37	2.04	1.70	MIN02-002EC151J-F

Fig.	VDC	Capacitance	Tolerance	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
2	1000	470	5%	338-1338-ND‡	5.50	4.72	3.93	MCM01-009EF471J-F
		680	5%	338-1360-ND‡	3.78	3.24	2.70	MCM01-009EF681J-F
2	500	4.7	±.5pF	338-1312-ND	2.89	2.48	2.07	MCM01-009D4R7D-F
		10	5%	338-1313-ND◊	2.29	1.97	1.64	MCM01-009CD100J-F
		33	5%	338-1362-ND◊	1.65	1.41	1.18	MCM01-009DD330J-F
		68	5%	338-1363-ND◊	1.65	1.41	1.18	MCM01-009ED680J-F
		560	5%	338-1322-ND	4.99	4.28	3.57	MCM01-009ED561J-F
		1,000	5%	338-1324-ND◊	4.31	3.69	3.08	MCM01-009ED102J-F

† **338-1357-ND** (MIN300VKIT1) Metal Clad Kit 5 each of marked value.................................. **$40.13**
◊ **338-1358-ND** (MCM500VKIT2) Metal Clad Kit 5 each of marked value.................................. **$53.45**
‡ **338-1359-ND** (MCM1000VKIT3) Metal Clad Kit 5 each of marked value.................................. **$59.63**

CDE CORNELL DUBILIER

Multilayer RF MICA Capacitors — Radial Lead

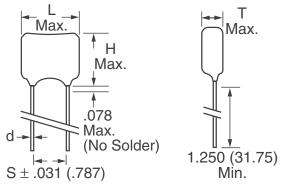

Cornell Dubilier mica capacitors are made of pure India Ruby muscovite mica. It is among the most inert and stable materials in the universe. When used as the insulator (dielectric) in a capacitor, the result is an electronic component with the ultimate in stability and reliability.

The capacitance change from zero to full rated operating voltage is generally less than ±0.1%. The series inductance of these capacitors is as little as eight nanohenrys (nH). The stability characteristics also apply to frequency which is why mica capacitors are so useful throughout the RF frequency range.

Mica capacitors are so efficient that less than 0.05% of the applied volt-amperes is lost as heat. Dipped silver mica capacitors such as the Standard Types are manufactured by applying pure silver to ultra-thin mica plates. The plates are stacked and secured by brass clips with copper-clad steel leads welded to each clip. The extra mass of the metal acts as a heat sink and enables these capacitors to absorb voltage transients up to 100,000 volts per microsecond.

Specifications:

Capacitance Tolerance: • Manufacturer's part number letter: D03 = ±1/2 pF • Manufacturer's part number letter: J03 = ±5% • Manufacturer's part number letter: F03 = ±1% **Temperature Range:** -55°C ~ 125°C

Voltage	Capacitance	Temperature Coefficient ppm/°C	Dimensions — Inch (mm) L Max.	H Max.	T Max.	S	d	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
Standard												
100	1000pF	0 ~ 70	.480 (12.2)	.400 (10.2)	.230 (5.8)	.234 (5.9)	.025 (.6)	338-1048-ND	3.42	2.94	2.45	CD15FA102J03
	1000pF	0 ~ 70	.480 (12.2)	.400 (10.2)	.230 (5.8)	.234 (5.9)	.025 (.6)	338-1092-ND	5.78	4.95	4.13	CD15FA102F03
300	680pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1060-ND	3.14	2.70	2.25	CD15FC681J03
	560pF	0 ~ 70	.460 (11.7)	.380 (9.7)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1081-ND	2.61	2.24	1.87	CD15FC561J03
500	5pF	-200 ~ 200	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1064-ND	2.05	1.76	1.47	CD10CD050D03
	10pF	-200 ~ 200	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1061-ND	1.01	.87	.73	CD15CD100J03
	10pF	-200 ~ 200	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1068-ND	1.01	.87	.73	CD15CD100D03
	15pF	-200 ~ 200	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1088-ND	2.05	1.76	1.47	CD10CD150J03
	15pF	-200 ~ 200	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1054-ND	.97	.84	.70	CD15CD150J03
	20pF	-20 ~ 100	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1095-ND	1.54	1.33	1.11	CD10ED200J03
	20pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1051-ND	.97	.84	.70	CD15ED200J03
	22pF	-20 ~ 100	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1070-ND	1.54	1.33	1.11	CD10ED220J03
	22pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1049-ND	1.01	.87	.72	CD15ED220J03
	27pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1085-ND	1.01	.87	.72	CD15ED270J03
	30pF	-20 ~ 100	.370 (9.4)	.340 (8.6)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1076-ND	1.54	1.33	1.11	CD10ED300J03
	30pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1056-ND	1.01	.87	.72	CD15ED300J03
	33pF	-20 ~ 100	.370 (9.4)	.340 (8.6)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1072-ND	1.54	1.33	1.11	CD10ED330J03
	33pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1047-ND	1.01	.87	.72	CD15ED330J03
	39pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1093-ND	1.01	.87	.72	CD15ED390J03
	47pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1053-ND	.99	.86	.71	CD15ED470J03
	68pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1091-ND	1.04	.90	.75	CD15ED680J03
	100pF	0 ~ 70	.370 (9.4)	.350 (8.9)	.200 (5.1)	.141 (3.6)	.016 (.4)	338-1050-ND	1.90	1.63	1.36	CD10FD101J03
	100pF	0 ~ 70	.460 (11.7)	.360 (9.1)	.180 (4.6)	.234 (5.9)	.025 (.6)	338-1042-ND	1.04	.90	.75	CD15FD101J03
	120pF	0 ~ 70	.460 (11.7)	.370 (9.4)	.180 (4.6)	.234 (5.9)	.025 (.6)	338-1058-ND	1.13	.97	.81	CD15FD121J03
	150pF	0 ~ 70	.460 (11.7)	.370 (9.4)	.190 (4.8)	.234 (5.9)	.025 (.6)	338-1052-ND	1.19	1.02	.85	CD15FD151J03
	180pF	0 ~ 70	.460 (11.7)	.370 (9.4)	.190 (4.8)	.234 (5.9)	.025 (.6)	338-1082-ND	1.37	1.18	.98	CD15FD181J03
	200pF	0 ~ 70	.460 (11.7)	.380 (9.7)	.190 (4.8)	.234 (5.9)	.025 (.6)	338-1063-ND	1.37	1.18	.98	CD15FD201J03
	220pF	0 ~ 70	.460 (11.7)	.380 (9.7)	.200 (5.1)	.234 (5.9)	.025 (.6)	338-1046-ND	1.42	1.22	1.02	CD15FD221J03
	240pF	0 ~ 70	.460 (11.7)	.380 (9.7)	.200 (5.1)	.234 (5.9)	.025 (.6)	338-1079-ND	1.52	1.31	1.09	CD15FD241J03
	270pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1062-ND	1.65	1.42	1.18	CD15FD271J03
	300pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1065-ND	1.77	1.53	1.27	CD15FD301J03
	330pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1045-ND	1.94	1.67	1.39	CD15FD331J03
	390pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1057-ND	2.10	1.80	1.50	CD15FD391J03
	470pF	0 ~ 70	.470 (11.9)	.400 (10.2)	.220 (5.6)	.234 (5.9)	.025 (.6)	338-1043-ND	2.42	2.08	1.73	CD15FD471J03
	470pF	0 ~ 70	.640 (16.3)	.510 (13.0)	.200 (5.1)	.344 (8.7)	.032 (.8)	338-1089-ND	1.90	1.64	1.36	CD19FD471J03
	500pF	0 ~ 70	.470 (11.9)	.400 (10.2)	.220 (5.6)	.234 (5.9)	.025 (.6)	338-1069-ND	2.50	2.14	1.79	CD15FD501J03
	510pF	0 ~ 70	.470 (11.9)	.400 (10.2)	.220 (5.6)	.234 (5.9)	.025 (.6)	338-1077-ND	2.61	2.24	1.87	CD15FD511J03
	680pF	0 ~ 70	.650 (16.5)	.510 (13.0)	.210 (5.3)	.344 (8.7)	.032 (.8)	338-1086-ND	2.24	1.92	1.60	CD19FD681J03
	820pF	0 ~ 70	.650 (16.5)	.510 (13.0)	.210 (5.3)	.344 (8.7)	.032 (.8)	338-1094-ND	2.22	1.91	1.59	CD19FD821J03
	1000pF	0 ~ 70	.650 (16.5)	.520 (13.2)	.220 (5.6)	.344 (8.7)	.025 (.6)	338-1044-ND	2.37	2.04	1.70	CD19FD102J03
	1500pF	0 ~ 70	.660 (16.8)	.520 (13.2)	.230 (5.8)	.344 (8.7)	.032 (.8)	338-1071-ND	3.07	2.64	2.20	CD19FD152J03
	2000pF	0 ~ 70	.670 (17.0)	.530 (13.5)	.240 (6.1)	.344 (8.7)	.032 (.8)	338-1074-ND	3.91	3.35	2.79	CD19FD202J03
	2200pF	0 ~ 70	.670 (17.0)	.530 (13.5)	.250 (6.4)	.344 (8.7)	.032 (.8)	338-1055-ND	3.92	3.36	2.80	CD19FD222J03
	4700pF	0 ~ 70	.700 (17.8)	.580 (14.7)	.350 (8.9)	.344 (8.7)	.032 (.8)	338-1067-ND	6.53	5.61	4.67	CD19FD472J03
	10000pF	0 ~ 70	.800 (20.3)	.890 (22.6)	.340 (8.6)	.438 (11.1)	.040 (1.0)	338-1078-ND	14.40	12.35	10.29	CD30FD103J03
Miniature												
300	5pF	-200 ~ 200	.270 (6.9)	.190 (4.8)	.110 (2.8)	.120 (3.0)	.016 (.4)	338-1073-ND	1.79	1.53	1.28	CD5CC050D03
	10pF	-200 ~ 200	.270 (6.9)	.190 (4.8)	.110 (2.8)	.120 (3.0)	.016 (.4)	338-1090-ND	1.28	1.10	.92	CD5CC100J03
	15pF	-200 ~ 200	.270 (6.9)	.190 (4.8)	.120 (3.0)	.120 (3.0)	.016 (.4)	338-1083-ND	1.32	1.14	.95	CD5CC150J03
	20pF	-20 ~ 100	.270 (6.9)	.200 (5.1)	.120 (3.0)	.120 (3.0)	.016 (.4)	338-1075-ND	1.35	1.16	.97	CD5EC200J03
	22pF	-20 ~ 100	.270 (6.9)	.200 (5.1)	.120 (3.0)	.120 (3.0)	.016 (.4)	338-1080-ND	1.41	1.22	1.01	CD5EC220J03
	30pF	-20 ~ 100	.270 (6.9)	.200 (5.1)	.130 (3.3)	.120 (3.0)	.016 (.4)	338-1087-ND	1.51	1.30	1.08	CD5EC300J03
	33pF	-20 ~ 100	.270 (6.9)	.200 (5.1)	.130 (3.3)	.120 (3.0)	.016 (.4)	338-1066-ND	1.56	1.35	1.12	CD5EC330J03
	47pF	-20 ~ 100	.270 (6.9)	.210 (5.3)	.140 (3.6)	.120 (3.0)	.016 (.4)	338-1084-ND	1.75	1.50	1.25	CD5EC470J03
	100pF	0 ~ 70	.270 (6.9)	.240 (6.1)	.180 (4.6)	.120 (3.0)	.016 (.4)	338-1059-ND	2.59	2.23	1.86	CD5FC101J03

SPRAGUE GOODMAN

GSX Series SMD Trimmer Capacitors

Specifications:

• **Operating Temperature Range:** -25°C ~ 85°C • **Voltage Rating:** 100VDC • **Dielectric Withstanding Voltage:** 200VDC • **Insulation Resistance:** 10^4 MΩ minimum • **Torque:** 20 to 300 g-cm (0.28 to 4.2 oz-in)

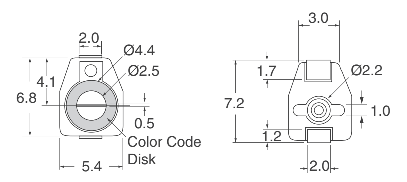

Capacitance (pF) Min.	Max.	TCC (ppm / °C)	Q (min.) 10MHz	Color Code	Digi-Key Part No.	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Sprague-Goodman Part No.
0.5	4.5	N100	1000	Orange	SG2018CT-ND	12.90	111.00	SG2018TR-ND	550.00/M	GSX364
0.6	9.0	N100	1000	Black	SG2017CT-ND	14.70	126.00	SG2017TR-ND	625.41/M	GSX358
0.8	15.0	N100	1000	Blue	SG2019CT-ND	16.30	140.00	SG2019TR-ND	700.00/M	GSX365
1.0	20.0	N100	1000	Green	SG2020CT-ND	23.44	200.94	SG2020TR-ND	1004.71/M	GSX366

SURFTRIM® Surface Mount Variable Capacitors

• Sealed Construction • 4 x 4.5 x 2.7mm

Features: • Process seal provides protection against contaminants (flux, solvents, etc.) during production. • Designed for vapor phase reflow soldering.

Specifications: • Operating Temperature Range: -25°C ~ 85°C • Dielectric Withstanding Voltage: 220VDC • Insulation Resistance: 10^4MΩ minimum • Voltage Rating: 100VDC • Torque: 15 to 100 g-cm (0.2 to 1.39 in.-oz.)

Fig. 1

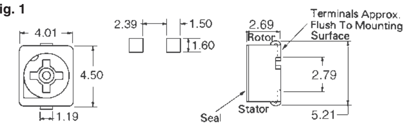

Fig. 2

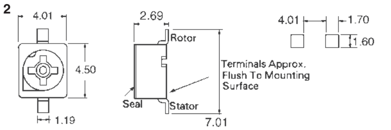

Fig.	Capacitance (pF) Min.	Max.	TCC (ppm / °C)	Q (min.) 1MHz	Color Code	Digi-Key Part No.	Cut Tape Pricing 5	25	100	T & R Pricing† 700	Sprague-Goodman Part No.
1	1.4	3.0	0±200	300	Red Dot*	SG2000CT-ND◆	5.40	23.63	74.25	—	GKG3R066-07
2	1.4	3.0	0±200	300	Red Dot*	SG2007CT-ND	6.40	28.00	88.00	371.70	GKG3R067-07
	3.0	10.0	0±300	500	White	SG2009CT-ND◆	6.40	28.00	88.00	371.70	GKG10067-07

* Marking on bottom of capacitor † For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

SPRAGUE GOODMAN

Ceramic Dielectric Trimmer Capacitors
SURFTRIM® Surface Mount GKRP, GKYB and GKY Series

Tuning Tool

GTT-21-ND (SG2026 - SG2029) **$40.00**
GTT-11-ND (SG2026 - SG2029) **$5.52**
GTT-9-ND (SG2021 - SG2025) **$5.52**

GKRP SERIES: • Sealed for washability • Low mounting profile • Carrier and reel packaging standard • NPO temperature coefficient (up to 10pF max.) • Self resonant frequency above 1GHz **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Dielectric Withstanding Voltage: 75VDC • Insulation Resistance: 10^4MΩ minimum • Voltage Rating: 25VDC • Torque: 0.14 ~ 2.1 oz-in

GKYB SERIES: • Suitable for reflow soldering • Low mounting profile (only 1.6mm) • Superior setting drift performance. **Specifications:** • Operating Temperature Range: -25°C ~ 85°C • Voltage Rating: 100VDC • Dielectric Withstanding Voltage: 220VDC • Insulation Resistance: 10^4 MΩ minimum • Torque: 25 ~ 100 g-cm (0.35 ~ 1.39 oz-in)

GKY SERIES: • Designed for reflow soldering • Carrier and reel packaging standard **Specifications:** • Operating Temperature Range: -25°C ~ 85°C • Dielectric Withstanding Voltage: 220VDC • Insulation Resistance: 10^4MΩ minimum • Voltage Rating: 100VDC • Torque: 0.14 ~ 2.08 oz-in

GKRP Series

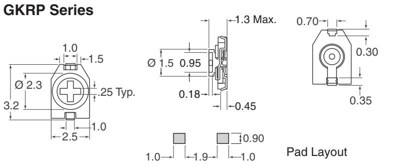

GKYB Series

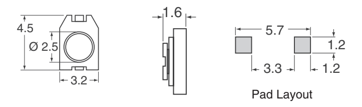

GKY Series

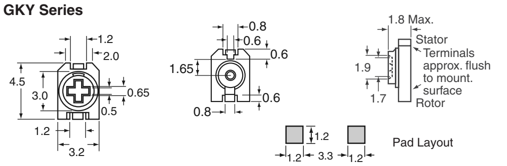

Capacitance (pF) Min.	Max.	TCC (ppm/ °C)	Q (min.) (1 MHz)	Color Code	Digi-Key Part No.	Cut Tape Pricing 5	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Sprague-Goodman Part No.
						GKRP Series						
3.0	5	0 ±500	150	—	SG2026CT-ND	8.20	35.88	112.75	SG2026TR-ND	2,000	615.00/M	GKRP5R066
3.0	10	0 ±500	150	—	SG2027CT-ND◆	8.20	35.88	112.75	SG2027TR-ND◆	2,000	615.00/M	GKRP10066
5.0	20	N750 ±500	150	—	SG2028CT-ND◆	8.20	35.88	112.75	SG2028TR-ND◆	2,000	615.00/M	GKRP20066
7.0	30	N750 ±500	150	—	SG2029CT-ND	8.20	35.88	112.75	SG2029TR-ND	2,000	615.00/M	GKRP30066
						GKYB Series RoHS Compliant						
1.7	3	NP0 ±300	300	Brown	SG2035CT-ND	2.98	13.04	40.98	SG2035TR-ND	1,000	247.34	GKYB3R066
2.5	6	NP0 ±300	500	Blue	SG2036CT-ND	2.98	13.04	40.98	SG2036TR-ND	1,000	247.34	GKYB6R066
3.5	10	N750 ±300	500	White	SG2037CT-ND	2.98	13.04	40.98	SG2037TR-ND	1,000	247.34	GKYB10066
5.5	20	N1200 ±500	300	Red	SG2038CT-ND	2.98	13.04	40.98	SG2038TR-ND	1,000	247.34	GKYB20066
7.5	30	N1200 ±500	300	Green	SG2039CT-ND	2.98	13.04	40.98	SG2039TR-ND	1,000	247.34	GKYB30066
						GKY Series						
1.7	3	0 ±300	500	Brown	SG2024CT-ND◆	5.20	22.75	71.50	SG2024TR-ND◆	1,000	431.60	GKY3R066
2.5	6	0 ±300	500	Blue	SG2025CT-ND	5.20	22.75	71.50	SG2025TR-ND	1,000	431.60	GKY6R066
3.0	10	N400 ±400	500	White	SG2021CT-ND◆	5.20	22.75	71.50	SG2021TR-ND◆	1,000	431.60	GKY10066
5.0	20	N900 ±400	300	Red	SG2022CT-ND◆	5.20	22.75	71.50	SG2022TR-ND◆	1,000	431.60	GKY20066
6.0	30	N1200 ±500	300	Green	SG2023CT-ND◆	5.20	22.75	71.50	SG2023TR-ND◆	1,000	431.60	GKY30066

◆ ***RoHS Compliant***

Top and Bottom/Side Adjust FILMTRIM® Plastic Dielectric Capacitors
GYA, GYB Series — 8mm; GYC, GYD, GZC, GZD Series — 10mm

Tuning Tool SG9004-ND $15.44

Features: • Compact size • Most stable TCC for single turn trimmers • Low cost for commercial/industrial applications • Linear capacitance change vs. rotation **Specifications:** • Dielectric Construction: GYA, GYB, GYC, GYD Series: Polypropylene; GZC and GZD Series: Polycarbonate • Voltage Rating: 100WVDC • Dielectric Withstanding Voltage: 200VDC • Operating Temperature: GYA and GYB Series: -40°C ~ 70°C; GYC, GYD, GZC, GZD Series: -40°C ~ 85°C • Contact Resistance: <0.010 Ohm • Insulation Resistance: >10,000MΩ • Torque: GYA and GYB Series: 0.2-3.0 in.-oz.; GYC, GYD, GZC, GZD Series: 0.2-5.5 in.-oz. • Q (min) @ 1 MHz: GYA, GYB, GYC, GYD Series: 1000; GZC and GZD Series: 200

Fig.	Capacitance (pF) Min.	Max.	TCC (ppm/°C)	Dimensions A	B	C	Color Code	Digi-Key Part No.	Pricing 1	10	100	Sprague-Goodman Part No.
						8mm						
1A	1.6	5	0±300	8.51	7.87	10.2	Gray	SG3000-ND	1.02	8.70	79.75	GYA5R000
	2.0	10	0±300	8.51	7.87	10.2	Yellow	SG3001-ND	1.02	8.70	79.75	GYA10000
	2.0	15	0±400	8.51	7.87	10.2	Blue	SG3002-ND	1.09	9.30	85.25	GYA15000
	2.2	22	0±400	8.51	7.87	10.2	Green	SG3003-ND	1.09	9.30	85.25	GYA22000
	2.3	27	0±350	8.51	7.87	10.2	Red	SG3004-ND	1.12	9.60	88.00	GYA27000
	3.0	36	0±300	8.51	7.87	10.2	Violet	SG3005-ND	1.65	14.10	129.25	GYA36000
2A	1.6	5	0±300	8.51	7.87	10.2	Gray	SG3020-ND	1.75	15.00	137.50	GYB5R000
	2.0	10	0±300	8.51	7.87	10.2	Yellow	SG3021-ND	1.75	15.00	137.50	GYB10000
	2.0	15	0±400	8.51	7.87	10.2	Blue	SG3022-ND	1.89	16.20	148.50	GYB15000
	2.2	22	0±400	8.51	7.87	10.2	Green	SG3023-ND	1.89	16.20	148.50	GYB22000
	2.3	27	0±350	8.51	7.87	10.2	Red	SG3024-ND	1.96	16.80	154.00	GYB27000
						10mm						
1B	2.0	15	0±400	11	10.16	10.2	Blue	SG3006-ND	1.40	12.00	110.00	GYC15000
	3.0	20	0±400	11	10.16	10.2	Green	SG3007-ND	1.44	12.30	112.75	GYC20000
	3.5	40	0±350	11	10.16	10.2	Clear	SG3008-ND	1.37	11.70	107.25	GYC40000
	4.5	65	0±350	11	10.16	10.2	Yellow	SG3009-ND	1.40	12.00	110.00	GYC65000
2B	2.0	15	0±400	11	10.16	10.2	Blue	SG3025-ND	1.89	16.20	148.50	GYD15000
	3.0	20	0±400	11	10.16	10.2	Green	SG3026-ND	1.93	16.50	151.25	GYD20000
	3.0	40	0±350	11	10.16	10.2	Clear	SG3027-ND	2.03	17.40	159.50	GYD40000
	4.5	65	0±350	11	10.16	10.2	Yellow	SG3028-ND	2.28	19.50	178.75	GYD65000
1B	8.0	80	0±200	11	10.16	11.4	Red	SG3010-ND	1.86	15.90	145.75	GZC80000
	9.0	100	0±400	11	10.16	11.4	Violet	SG3011-ND	2.98	25.50	233.75	GZC10100
	9.0	120	0±350	11	10.16	11.4	Orange	SG3012-ND	4.38	37.50	343.75	GZC12100
	10.0	150	0±350	11	10.16	12.0	Orange	SG3013-ND	5.11	43.80	401.50	GZC15100
	10.0	180	0±350	11	10.16	12.0	Orange	SG3014-ND	6.02	51.60	473.00	GZC18100
2B	9.0	100	0±400	11	10.16	11.4	Violet	SG3016-ND	3.75	32.10	294.25	GZD10100
	9.0	120	0±350	11	10.16	11.4	Orange	SG3017-ND	5.04	43.20	396.00	GZD12100
	10.0	150	0±350	11	10.16	12.0	Orange	SG3018-ND	5.71	48.90	448.25	GZD15100
	10.0	180	0±350	11	10.16	12.0	Orange	SG3019-ND	6.41	54.90	503.25	GZD18100

Fig. 1

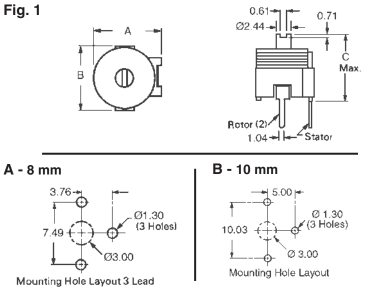

A - 8 mm Mounting Hole Layout 3 Lead

B - 10 mm Mounting Hole Layout

Fig. 2

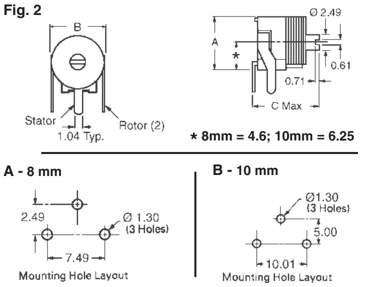

*** 8mm = 4.6; 10mm = 6.25**

A - 8 mm Mounting Hole Layout

B - 10 mm Mounting Hole Layout

SGC3 Series Chip Trimmer Capacitors

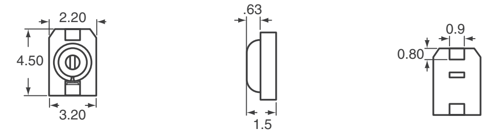

Features:
- Ultra miniature size • Constructed with high temperature liquid-crystal polymer for superior durability and low dielectric loss • Designed for reflow soldering • Color coded for easy identification • Mountable by an automatic placer • Easy adjustment using a conventional screwdriver

Specifications:
- Insulation Resistance: 10^4 MΩ Min • Torque: 0.14 ~ 1.0 oz-in. • Operating Temperature: -25°C ~ 85°C

Color	Capacitance (pF min.)	Capacitance (pF max.)	Temperature Coefficient (ppm/°C)	Q @ 1MHz	DC Working Voltage	DC Withstanding Voltage	Digi-Key Part No.	Cut Tape Price Each 5	25	100	Digi-Key Part No.	T & R Pricing 1,000	Sprague-Goodman Part No.
Black	1.2	3	N470 ±60	300	100	220	SG9008CT-ND	1.04	.91	.72	SG9008TR-ND	431.60	SGC3S030
Blue	2.2	6	N470 ±60	500	100	220	SG9009CT-ND	1.04	.91	.72	SG9009TR-ND	431.60	SGC3S060
Ivory	3.0	10	N1000 ±250	500	50	110	SG9010CT-ND	1.04	.91	.72	SG9010TR-ND	431.60	SGC3S100
Pink	5.5	20	N1000 ±250	500	50	110	SG9011CT-ND	1.04	.91	.72	SG9011TR-ND	431.60	SGC3S200
Green	8.0	30	N1200 ±200	500	50	110	SG9012CT-ND	1.04	.91	.72	SG9012TR-ND	431.60	SGC3S300

muRata *Innovator in Electronics*

Ceramic Trimmer Capacitors – TZ03 Series

RoHS COMPLIANT

Color coded case facilitates identification of capacitance range. Sealed construction prevents the penetration of flux and dust. Cross shaped slot enables automatic adjustment. **Specifications:** • Insulation Resistance: 10,000MΩ minimum • Torque: 2.0-15.0mNm • Operating Temperature Range: -25°C ~ 85°C

Dim. in mm

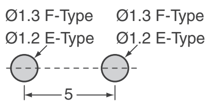

Fig. 1

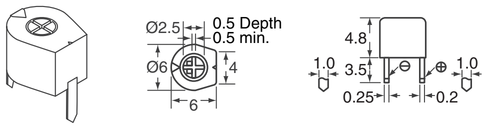

E-TYPE

Fig. 2

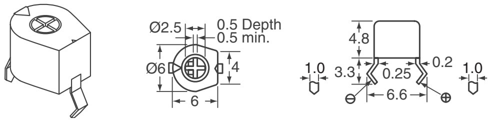

F-TYPE

Fig.	C min. (pF) max.	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Stator/ Case Color	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
1	9.0	90.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Dot	490-1962-ND	.93	.80	.74	TZ03R900E169B00
2	1.25	2.3 + 50/-0%	NPO ± 200ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Black	490-1973-ND	.38	.33	.31	TZ03Z2R3F169B00
	1.5	5.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1967-ND	.38	.33	.31	TZ03Z050F169B00
	2.0	7.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1969-ND	.38	.33	.31	TZ03Z070F169B00
	2.7	10.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1971-ND	.38	.33	.31	TZ03Z100F169B00
	3.0	11.0 + 50/-0%	N450 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1965-ND	.38	.33	.31	TZ03T110F169B00
	4.2	20.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1959-ND	.38	.33	.31	TZ03R200F169B00
	5.2	30.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1961-ND	.38	.33	.31	TZ03R300F169B00
	6.8	45.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Yellow	490-1953-ND	.38	.33	.31	TZ03P450F169B00
	9.8	60.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1955-ND	.38	.33	.31	TZ03P600F169B00
	6.0	50.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Orange	490-1975-ND	.94	.81	.74	TZ03Z500F169B00
	9.0	90.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Dot	490-1963-ND	.94	.81	.74	TZ03R900F169B00
	10.0	120.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black	490-1957-ND	.94	.81	.74	TZ03R121F169B00
—	Tuning Tool for Manual Adjustment							490-2607-ND	6.81	—	—	KMDR010

SMD Ceramic Trimmer Capacitors – TZY2 Series

Digi-Reel® RoHS COMPLIANT

New shape of cover can improve the flux invasion compared with current products. Improvement of the adhesion between rotor and stator leads superior stability. Unique construction with no plastic material provides superior soldering heat resistance to maintain excellent characteristic performance after reflow soldering.

Specifications:

• Insulation Resistance: 10,000MΩ minimum • Torque: 0.5-5.0mNm • Operating Temperature Range: -25°C ~ 85°C

Dim. in mm

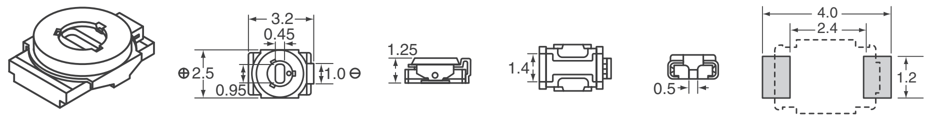

C min. (pF) max.	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Digi-Key Part No.	Price Each 5	25	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Murata Part No.
0.5	1.0 + 100/-0%	NPO ± 300ppm/°C	200 min. @ 200MHz, Cmax.	25Vdc	55Vdc	490-2009-1-ND	.94	.82	.65	490-2009-2-ND	350.00/M	TZY2Z010A001R00
0.65	2.5 + 100/-0%	NPO ± 300ppm/°C	200 min. @ 200MHz, Cmax.	25Vdc	55Vdc	490-2008-1-ND	.69	.60	.48	490-2008-2-ND	257.00/M	TZY2Z2R5A001R00
1.5	3.0 + 100/-0%	NPO ± 300pm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2005-1-ND	.69	.60	.48	490-2005-2-ND	257.00/M	TZY2Z030A001R00
2.5	6.0 + 100/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2006-1-ND	.69	.60	.48	490-2006-2-ND	257.00/M	TZY2Z060A001R00
3.0	10.0 + 100/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2007-1-ND	.69	.60	.48	490-2007-2-ND	257.00/M	TZY2Z100A001R00
4.5	20.0 + 100/-0%	N750 ± 500ppm/°C	500 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2003-1-ND	.69	.60	.48	490-2003-2-ND	257.00/M	TZY2R200A001R00
5.5	25.0 + 100/-0%	N750 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2004-1-ND	.69	.60	.48	490-2004-2-ND	257.00/M	TZY2R250A001R00
8.0	45.0 + 100/-0%	N1000 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2002-1-ND	.84	.73	.58	490-2002-2-ND	312.00/M	TZY2K450A001R00
Tuning Tool for Manual Adjustment						490-2608-ND		16.09/1		—	—	KMDR060

SMD Ceramic Trimmer Capacitors – TZR1 Series

Digi-Reel® RoHS COMPLIANT

Unique construction with no plastic material provides superior soldering heat resistance to maintain excellent characteristic performance after reflow soldering. Harmful materials (lead, etc.) are not contained in the product.

Specifications:

• Insulation Resistance: 10,000MΩ minimum • Torque: 0.1-1.0mNm • Operating Temperature Range: -25°C ~ 85°C

Dim. in mm

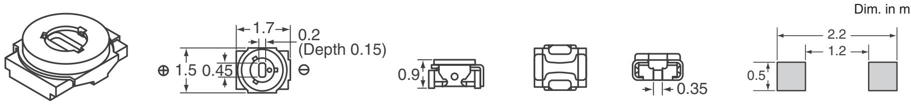

C min. (pF) max.	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Digi-Key Part No.	Price Each 5	25	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Murata Part No.
0.55	1.0 + 100/-0%	NPO ± 300ppm/°C	200 min. @ 200MHz, Cmax.	25Vdc	55Vdc	490-2012-1-ND	4.19	3.67	2.89	490-2012-2-ND	3,000	1571.00/M	TZR1Z010A001R00
0.7	1.5 + 100/-0%	NPO ± 300ppm/°C	200 min. @ 200MHz, Cmax.	25Vdc	55Vdc	490-2013-1-ND	4.19	3.67	2.89	490-2013-2-ND	3,000	1571.00/M	TZR1Z1R5A001R00
1.5	4.0 + 100/-0%	NPO ± 500ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2010-1-ND	4.19	3.67	2.89	490-2010-2-ND	3,000	1571.00/M	TZR1Z040A001R00
3.0	8.0 + 100/-0%	N750 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2011-1-ND	4.19	3.67	2.89	490-2011-2-ND	3,000	1571.00/M	TZR1R080A001R00
Tuning Tool for Manual Adjustment						490-2609-ND		27.29/1		—	—	—	KMDR160

Ceramic Trimmer Capacitors –TZW4 Series

Digi-Reel® RoHS COMPLIANT

Features:

- Extremely high self resonant frequency (more than 3GHz @ 1.5pF setting)
- Typical application: Impedance matching for Cellular Base Station
- Available for pick and place machine. Possible thinner design due to 2.5mm low profile

Dim. in mm

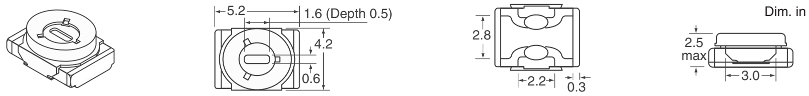

C min. (max.) (pF)	C max. (pF)	TC	Q	Rated Voltage	Withstanding Voltage	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	Murata Part No.
0.4	1.5 + 100/-0%	NP0±300ppm/°C	200min. @ 500MHz, Cmax.	250Vdc	550Vdc	490-3914-1-ND	5.85	4.95	4.32	490-3914-2-ND	1620.00	TZW4Z1R5A001R00

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SMD Ceramic Trimmer Capacitors – TZC3 Series

Color coded stator permits easy identification of capacitance and reduces mounting errors. Can be adjusted with conventional adjustment tools having a thickness of 0.5mm. Designed for automatic placement in surface mount applications. Heat resistant resin withstands reflow soldering temperatures. **Specifications:** • Insulation Resistance: 10,000MΩ minimum • Torque: 1.5-10.0mNm • Operating Temperature Range: -25°C ~ 85°C

Fig. 1

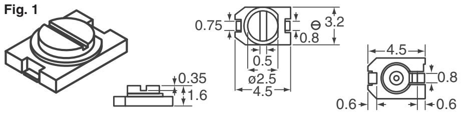

Fig. 2

Dim. in mm

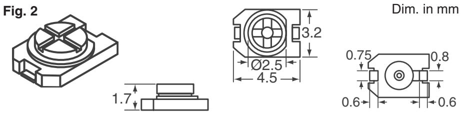

Fig.	C min. (pF)	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Stator/ Case Color	Digi-Key Part No.	Cut Tape Price Each 5	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Murata Part No.
1	1.4	3.0 + 50/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1998-1-ND	.64	.57	.45	490-1998-2-ND	240.00	TZC3Z030A110R00
	2.0	6.0 ± 50/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-2000-1-ND	.64	.57	.45	490-2000-2-ND	240.00	TZC3Z060A110R00
	3.0	10.0 ± 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1996-1-ND	.64	.57	.45	490-1996-2-ND	240.00	TZC3R100A110R00
	5.0	20.0 ± 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1992-1-ND	.64	.57	.45	490-1992-2-ND	240.00	TZC3P200A110R00
	6.5	30.0 ± 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1994-1-ND	.64	.57	.45	490-1994-2-ND	240.00	TZC3P300A110R00
2	1.4	3.0 ± 50/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1999-1-ND	.64	.57	.45	490-1999-2-ND	240.00	TZC3Z030A310R00
	2.0	6.0 ± 50/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-2001-1-ND	.68	.59	.47	490-2001-2-ND	253.00	TZC3Z060A310R00
	3.0	10.0 ± 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1997-1-ND	.64	.57	.45	490-1997-2-ND	240.00	TZC3R100A310R00
	5.0	20.0 ± 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1993-1-ND	.64	.57	.45	490-1993-2-ND	240.00	TZC3P200A310R00
	6.5	30.0 ± 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1995-1-ND	.64	.57	.45	490-1995-2-ND	240.00	TZC3P300A310R00
—	Tuning Tool for Manual Adjustment							490-2607-ND		6.81/1		—	—	KMDR010

SMD Ceramic Trimmer Capacitors – TZB4 Series

Color coded case facilitates identification of capacitance range. Designed for automatic placement in surface mount applications. Can be temporarily attached to PCB with adhesives.

Specifications:

- Insulation Resistance: 10,000MΩ minimum
- Torque: 1.5-10.0mNm • Operating Temperature Range: -25°C ~ 85°C

Fig. 1

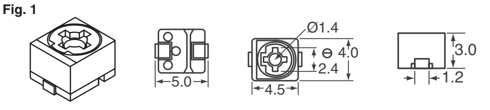

Fig. 2

Dim. in mm

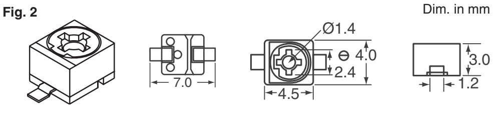

Fig.	C min. (pF)	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Stator/ Case Color	Digi-Key Part No.	Cut Tape Price Each 5	25	100	Digi-Key Part No.	Tape & Reel Pricing 500	Murata Part No.
1	1.4	3.0 + 50/-0%	NPO ± 200ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1984-1-ND	.77	.68	.53	490-1984-2-ND	159.50	TZB4Z030AA10R00
	2.0	6.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1986-1-ND	.77	.68	.53	490-1986-2-ND	159.50	TZB4Z060AA10R00
	3.0	10.0 + 50/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1988-1-ND	.77	.68	.53	490-1988-2-ND	159.50	TZB4Z100AA10R00
	4.0	25.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking	490-1990-1-ND	1.37	1.20	.94	490-1990-2-ND	283.50	TZB4Z250AA10R00
	4.5	20.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1980-1-ND	.77	.68	.53	490-1980-2-ND	159.50	TZB4R200AA10R00
	6.5	30.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1976-1-ND	.77	.68	.53	490-1976-2-ND	159.50	TZB4P300AA10R00
	7.0	50.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking	490-1982-1-ND	1.36	1.19	.94	490-1982-2-ND	281.50	TZB4R500AA10R00
	8.5	40.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Yellow	490-1978-1-ND	.77	.68	.53	490-1978-2-ND	159.50	TZB4P400AA10R00
2	1.4	3.0 + 50/-0%	NPO ± 200ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1985-1-ND	.77	.68	.53	490-1985-2-ND	159.50	TZB4Z030BA10R00
	2.0	6.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1987-1-ND	.77	.68	.53	490-1987-2-ND	159.50	TZB4Z060BA10R00
	3.0	10.0 + 50/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1989-1-ND	.77	.68	.53	490-1989-2-ND	159.50	TZB4Z100BA10R00
	4.0	25.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking	490-1991-1-ND	1.37	1.20	.94	490-1991-2-ND	283.50	TZB4Z250BA10R00
	4.5	20.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1981-1-ND	.77	.68	.53	490-1981-2-ND	159.50	TZB4R200BA10R00
	6.5	30.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1977-1-ND	.77	.68	.53	490-1977-2-ND	159.50	TZB4P300BA10R00
	7.0	50.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking	490-1983-1-ND	1.36	1.19	.94	490-1983-2-ND	281.50	TZB4R500BA10R00
	8.5	40.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Yellow	490-1979-1-ND	.77	.68	.53	490-1979-2-ND	159.50	TZB4P400BA10R00
—	Tuning Tool for Manual Adjustment							490-2607-ND		6.81/1		—	—	KMDR010

F

NEW! Trimmer Capacitors – CTZ3 Series

Features:

- SMD
- Small and thin package
- Wide capacitance range
- Plus slot (+) suitable for auto-adjustment

Applications:

- AV equipment
- Cellular phone
- Cordless phone
- TCXO
- Keyless entry

Specifications:

- Rated voltage: 25VDC
- Operating Temperature Range: -40°C ~ 85°C
- Insulation Resistance: ≥10^4MΩ
- Torque: 10 ~ 150g.cm

Dim. in mm

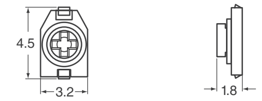

C min. (max.) (pF)	C max. (pF)	TC	Q	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	AVX Part No.
1.0	3 + 100/-0%	NP0±500ppm/°C	300min. @ 1MHz	478-4699-1-ND	1.58	1.49	1.23	478-4699-2-ND	581.00	CTZ3E-03A-W1-PF
1.5	5 + 100/-0%	NP0±500ppm/°C	300min. @ 1MHz	478-4700-1-ND	1.46	1.38	1.14	478-4700-2-ND	538.00	CTZ3E-05A-W1-PF
1.5	10 + 100/-0%	N400±500ppm/°C	300min. @ 1MHz	478-4701-1-ND	1.58	1.49	1.23	478-4701-2-ND	581.00	CTZ3E-10B-W1-PF
4.5	20 + 100/-0%	N750±500ppm/°C	300min. @ 1MHz	478-4702-1-ND	1.46	1.38	1.14	478-4702-2-ND	539.00	CTZ3E-20C-W1-PF
4.5	40 + 100/-0%	N750±500ppm/°C	300min. @ 1MHz	478-4703-1-ND	1.08	1.02	.84	478-4703-2-ND	398.00	CTZ3E-40C-W1-PF
4.5	50 + 100/-0%	N750±500ppm/°C	200min. @ 1MHz	478-4704-1-ND	1.58	1.49	1.23	478-4704-2-ND	581.00	CTZ3E-50C-W1-PF

SMD Trimmer Capacitors
Film Dielectric Capacitors

Description: SMD trimmer capacitors use a PTE film dielectric for excellent long-term stability and low temperature coefficient of capacitance. These units consist of brass rotors and stators separated by film dielectric and enclosed in a plastic case.

Specifications: • Insulation Resistance between Stator and Rotor: 10,000MΩ minimum • Voltage Rating: 100VDC • Minimum Q @ 10MHz: 1000 • Temperature Coefficient: -100 ± 100PPM/°C • Soldering Maximum: 260°C for 5 seconds • Operating Temperature Range: -40°C ~ 85°C • Effective Angle of Rotation: 360° • Operating Torque: 20 - 300g.cm • Ratio of Maximum to Minimum Torque: Within 3:1

Dim. in mm

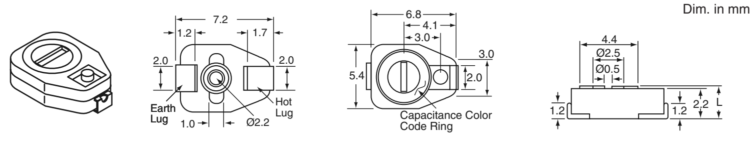

Capacitance (pF) Min.	Max.	Dim. L (mm)	Color Code	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Vishay Part No.
0.3 ±0.2	5, -0.5/+3	2.2	Orange	2807S505-ND	1.71	1.49	1.35	1.15	1.00	2807S0R505NHA4BAA
0.4 ±0.2	10, -1/+5	2.2	Black	2807S610-ND	1.68	1.46	1.32	1.12	.98	2807S0R610NHB4BAA
0.5 ±0.3	15, -0/+7	2.4	Blue	2807S815-ND◆	1.68	1.46	1.32	1.12	.98	2807S0R815NHC4BAA
0.7 ±0.3	20, -0/+10	2.55	Green	2807S020-ND◆	1.68	1.46	1.32	1.12	.98	2807S1R020NHD4BAA

◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

THIN FILM TECHNOLOGY
SSM SUSUMU CO., LTD

Thin Film Fixed SMD Attenuators

PAT0510S and PAT1220 Series

Specifications: • Attenuation: 0 ~ 10dB • VSWR: 1.3 or less • Frequency Range: DC ~ 10GHz • Operating Temperature: -55°C ~ 125°C • Impedance: 50Ω • Rated Ambient Temperature: 70°

Materials: • Resistor: Nichrome Thin Film • Protection Film: Epoxy Resin • Substrate: Alumina • Marking: White Ink • Terminals: Sn Plate (Sn is free from lead)

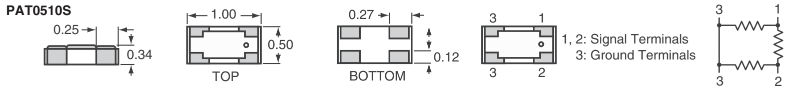

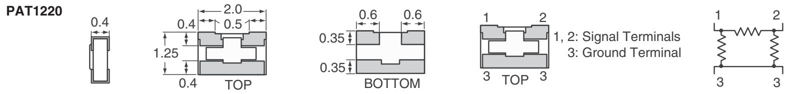

Type	Attenuation Value (dB)	Attenuation Tolerance	Rated Input Power	Impedance Tolerance	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Susumu Part No.
PAT0510S	0	±0.3dB	32mW	±20% @ DC	PAT05S0CT-ND	.47	2.52	7.23	PAT05S0TR-ND	10,000	45.00/M	PAT0510S-C-0DB-T10
	1				PAT05S1CT-ND	.47	2.52	7.23	PAT05S1TR-ND	10,000	45.00/M	PAT0510S-C-1DB-T10
	2				PAT05S2CT-ND	.47	2.52	7.23	PAT05S2TR-ND	10,000	45.00/M	PAT0510S-C-2DB-T10
	3				PAT05S3CT-ND	.47	2.52	7.23	PAT05S3TR-ND	10,000	45.00/M	PAT0510S-C-3DB-T10
	4	±0.5dB	32mW	±20% @ DC	PAT05S4CT-ND	.47	2.52	7.23	PAT05S4TR-ND	10,000	45.00/M	PAT0510S-C-4DB-T10
	5				PAT05S5CT-ND	.47	2.52	7.23	PAT05S5TR-ND	10,000	45.00/M	PAT0510S-C-5DB-T10
	6				PAT05S6CT-ND	.47	2.52	7.23	PAT05S6TR-ND	10,000	45.00/M	PAT0510S-C-6DB-T10
	7				PAT05S7CT-ND	.47	2.52	7.23	PAT05S7TR-ND	10,000	45.00/M	PAT0510S-C-7DB-T10
	8	±0.7dB	32mW	±20% @ DC	PAT05S8CT-ND	.47	2.52	7.23	PAT05S8TR-ND	10,000	45.00/M	PAT0510S-C-8DB-T10
	9				PAT05S9CT-ND	.47	2.52	7.23	PAT05S9TR-ND	10,000	45.00/M	PAT0510S-C-9DB-T10
	10				PAT05S10CT-ND	.47	2.52	7.23	PAT05S10TR-ND	10,000	45.00/M	PAT0510S-C-10DB-T10
PAT1220	0	±0.3dB	100mW	±7% @ DC	PAT120CT-ND	1.29	6.96	19.98	PAT120TR-ND	5,000	144.00/M	PAT1220-C-0DB-T5
	1				PAT121CT-ND	1.29	6.96	19.98	PAT121TR-ND	5,000	144.00/M	PAT1220-C-1DB-T5
	2				PAT122CT-ND	1.29	6.96	19.98	PAT122TR-ND	5,000	144.00/M	PAT1220-C-2DB-T5
	3				PAT123CT-ND	1.29	6.96	19.98	PAT123TR-ND	5,000	144.00/M	PAT1220-C-3DB-T5
	4				PAT124CT-ND	1.29	6.96	19.98	PAT124TR-ND	5,000	144.00/M	PAT1220-C-4DB-T5
	5				PAT125CT-ND	1.29	6.96	19.98	PAT125TR-ND	5,000	144.00/M	PAT1220-C-5DB-T5
	6				PAT126CT-ND	1.29	6.96	19.98	PAT126TR-ND	5,000	144.00/M	PAT1220-C-6DB-T5
	7				PAT127CT-ND	1.29	6.96	19.98	PAT127TR-ND	5,000	144.00/M	PAT1220-C-7DB-T5
	8				PAT128CT-ND	1.29	6.96	19.98	PAT128TR-ND	5,000	144.00/M	PAT1220-C-8DB-T5
	9				PAT129CT-ND	1.29	6.96	19.98	PAT129TR-ND	5,000	144.00/M	PAT1220-C-9DB-T5
	10				PAT1210CT-ND	1.29	6.96	19.98	PAT1210TR-ND	5,000	144.00/M	PAT1220-C-10DB-T5

RM Series Metal Film Chip Resistor Networks

0805, 1206, .1% Voltage Divider or Isolated Configurations

Specifications:
- **Resistance Tolerance:** ±0.1%
- **Resistance Tracking Tolerance:** ±.05%
- **TCR ppm/°C:** ±25ppm
- **PCR Tracking ppm/°C:** ±5ppm

Dimension (mm)	RM2012 (0805)	RM3216 (1206)
L	2.0 ±0.2	3.2 ±0.2
W	1.25 ±0.2	1.6 ±0.2
T	0.4 ±0.1	0.4 ±0.1
a	0.6 ±0.2	1.0 ±0.2
b	0.35 ±0.2	0.4 ±0.2

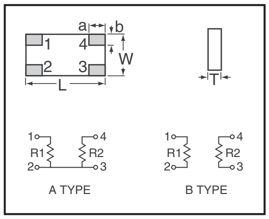

Resistor Value (Ratio) Chart RM2012 and RM3216

Value (Ratio)	Value (Ratio)	Value (Ratio)	Value (Ratio)	Value (Ratio)
1.0K/1.0K (1:1)	1.0K/9.0K (1:9)	2.0K/10K (1:5)	5.0K/100K (1:20)	10K/60K (1:6)
1.0K/2.0K (1:2)	1.0K/10K (1:10)	2.0K/20K (1:10)	10K/10K (1:1)	10K/90K (1:9)
1.0K/3.0K (1:3)	1.0K/20K (1:20)	2.0K/40K (1:20)	10K/20K (1:2)	10K/100K (1:10)
1.0K/4.0K (1:4)	1.0K/25K (1:25)	2.0K/50K (1:25)	10K/30K (1:3)	100K/100K (1:1)
1.0K/5.0K (1:5)	1.0K/50K (1:50)	2.0K/100K (1:50)	10K/40K (1:4)	100K/200K (1:2)‡
1.0K/6.0K (1:6)	1.0K/100K (1:100)	2.0K/200K (1:100)‡	10K/50K (1:5)	100K/300K (1:3)‡

‡ Available only in RM3216 Series

Description	Circuit Type	Element Power (W)	Package Power (W)	Digi-Key Part No.	Cut Tape Pricing 5	10	100	Digi-Key Part No.	T&R Pricing 1,000	Susumu Part No.
0.1%, 0805	(A) Voltage Divider	.05	.10	RM20A(Value)PCT-ND	8.00	14.00	110.00	RM20A(Value)PTR-ND	800.00	RM2012A-(Value)-PBVW10
0.1%, 0805	(B) Isolated	.05	.10	RM20B(Value)PCT-ND	8.00	14.00	110.00	RM20B(Value)PTR-ND	800.00	RM2012B-(Value)-PBVW10
0.1%, 1206	(A) Voltage Divider	.063	.125	RM32A(Value)PCT-ND	8.00	14.00	110.00	RM32A(Value)PTR-ND	800.00	RM3216A-(Value)-PBVW10
0.1%, 1206	(B) Isolated	.063	.125	RM32B(Value)PCT-ND	8.00	14.00	110.00	RM32B(Value)PTR-ND	800.00	RM3216B-(Value)-PBVW10

0402 / 0603 / 0805 SMD 1% High Power Thin Film Chip Resistors

RP Series — 1/3, 1/5, 1/6 Watt

Susumu's RP series current sensing resistors provide excellent heat dissipation which allows higher power handling in smaller package sizes. Their patented structure will not create "hot spots" and evenly distribute heat across the total surface area of the resistor.
Operating Temperature: -40°C ~ 125°C
Maximum Operating Voltage: $\sqrt{PxR}$

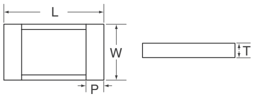

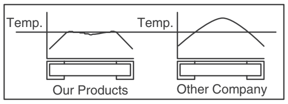

Resistor Values

.10	.22	.47	1.0	2.2	4.7	10	22	47	100
.12	.27	.56	1.2	2.7	5.6	12	27	56	
.15	.33	.68	1.5	3.3	6.8	15	33	68	
.18	.39	.82	1.8	3.9	8.2	18	39	82	

Description	Value Range (Ω)	TCR ppm/°C	Resistance Tolerance	Dimensions (mm) L	W	P	T	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Susumu Part No.
1%, 0402, 1/6W	.10 ~ 47	0 ~ 200	±1%	1.00	0.50	0.20	0.35	RP10S(Value)FCT-ND	9.63	25.90	59.50	RP10S(Value)FTR-ND	10,000	105.60/M	RP1005S-xxx-F
1%, 0603, 1/5W	.10 ~ 68	0 ~ 200	±1%	1.60	0.80	0.30	0.40	RP16S(Value)FCT-ND	6.88	18.50	42.50	RP16S(Value)FTR-ND	5,000	78.20/M	RP1608S-xxx-F
1%, 0805, 1/3W	.10 ~ 10	0 ~ 200	±1%	2.00	1.25	0.40	0.40	RP20T(Value)FCT-ND	5.36	14.43	33.15	RP20T(Value)FTR-ND	5,000	59.50/M	RP2012T-xxx-F
1%, 0805, 1/3W	12 ~ 100	0 ~ 200	±1%	2.00	1.25	0.40	0.40	RP20S(Value)FCT-ND	5.36	14.43	33.15	RP20S(Value)FTR-ND	5,000	59.50/M	RP2012S-xxx-F

1% SMD Resistors **Digi-Key®** Assortment Kits

Digi-Key® 0402, 1%, 1/6W, RP Series, SMD Resistor Kits
RP1005SF-1-KIT-ND 10 each of values .10Ω ~ 47Ω........ **$59.95**

Digi-Key® 0603, 1%, 1/5W, RP Series, SMD Resistor Kits
RP1608SF-1-KIT-ND 10 each of values .10Ω ~ 68Ω........ **$49.95**

Digi-Key® 0805, 1%, 1/3W, RP Series, SMD Resistor Kits
RP2012SF-1-KIT-ND 10 each of values 12Ω ~ 100Ω........ **$13.95**
RP2012TF-1-KIT-ND 10 each of values .10Ω ~ 10Ω........ **$29.95**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

THIN FILM TECHNOLOGY

SSM SUSUMU CO., LTD

0402 / 0603 / 0805 SMD 0.1%, 0.02%, 0.05%, 0.5% Thin Film Chip Resistors Ultra Precision / Ultra Reliable RG Series - 1/16, 1/10, 1/8 RGH Series - 1/4 Watt

Using the conventional properties of Thin Film Resistors, SSM has successfully achieved the environmental, resistance stability and sustained durability issues that are encountered while operating at higher temperatures. We call this "RG" and "RGH" Series (Resistor Great). Higher reliability parts are indispensable in the Automotive, Measurement and Medical Industries as quality requirements increase. Susumu provides a solution with the RG and RGH Series thin film chip resistors. The RG and RGH series provides excellent TCR, Low Current Noise, and Linearity specifications needed in high frequency applications. Tight tolerance allows for circuit simplification and the elimination of trim pots which leads to cost savings.

SPECIFICATIONS: Performance: Inorganic protective coating assures high reliability, durability and protection against heat and moisture.
Operating Temperature: -55°C ~ 155°C (RG 100% Power at 85°C, RGH 100% Power at 70°C)
Thermal Derating: The RG series is able to dissipate 100% of rated power at 85°C, RGH Series is 70°C. For applications operating above 85°C, the user must derate the resistors in accordance with the derating curve listed.
Applications: Suitable for automotive, measurement devices and any application where accuracy and reliability are required.

Items	Test Conditions	Performance of High Reliablity	
		Maximum	Typical
Short Time Overload	2.5 times of Rated Load X 5 seconds	±0.05%	±0.01%
Load Life	85°C Rated Load 90 minutes on/ 30 minutes off Cycle 1000h	±0.1%	±0.01%
Temperature Humidity Bias	85°C, 85%RH 1/10 power loaded 90 min. on/ 30 minutes off Cycle 1000h	±0.1%	±0.05%
A/A Thermal Shock	-55°C (30 minutes)/ Room Temp. (2 minutes)/ 125°C (30 minutes)/ Room Temp. (2 minutes)/ Room Temp. (2 min.) no Load 1000 Cycles	±0.1%	±0.01%
High Temperature	155°C no Load 1000h	±0.1%	±0.01%

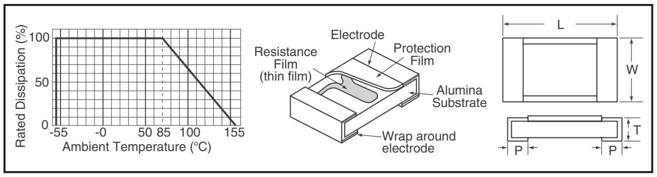

0.02%, 0402 Series, 1/16W — Resistor Values

100	120	150	220	330	510	680	1.0K	1.2K	1.5K	2.2K
110	130	180	270	390	560	820	1.1K	1.3K	1.8K	2.7K

0.02%, 0603 Series, 1/16W — Resistor Values

100	120	180	270	390	560	820	1.2K	1.8K	2.7K	3.9K
110	150	220	330	470	680	1.0K	1.5K	2.2K	3.3K	4.7K

0.02%, 0805 Series, 1/10W — Resistor Values

100	150	220	270	390	560	750	1.0K	1.2K	1.8K	2.7K	3.9K	5.6K	7.5K	10K
120	180	240	330	470	680	820	1.1K	1.5K	2.2K	3.3K	4.7K	6.8K	8.2K	

0.05%, 0603 Series, 1/16 Watt — Resistor Values

47	91	180	360	680	1.3K	2.7K	5.1K	10.0K	20.0K	39.0K	75.0K	150K
51	100	200	390	750	1.5K	3.0K	5.6K	11.0K	22.0K	43.0K	82.0K	160K
56	110	220	430	820	1.6K	3.3K	6.2K	12.0K	24.0K	47.0K	91.0K	180K
62	120	240	470	910	1.8K	3.6K	6.8K	13.0K	27.0K	51.0K	100K	200K
68	130	270	510	1.0K	2.0K	3.9K	7.5K	15.0K	30.0K	56.0K	110K	220K
75	150	300	560	1.1K	2.2K	4.3K	8.2K	16.0K	33.0K	62.0K	120K	240K
82	160	330	620	1.2K	2.4K	4.7K	9.1K	18.0K	36.0K	68.0K	130K	270K

0.05%, 0805 Series, 1/10 Watt and 0.1%, 0805 Series, 1/4 Watt — Resistor Values

47	91	180	360	680	1.3K	2.7K	5.1K	10.0K	20.0K	39.0K	75.0K	150K	300K
51	100	200	390	750	1.5K	3.0K	5.6K	11.0K	22.0K	43.0K	82.0K	160K	330K
56	110	220	430	820	1.6K	3.3K	6.2K	12.0K	24.0K	47.0K	91.0K	180K	360K
62	120	240	470	910	1.8K	3.6K	6.8K	13.0K	27.0K	51.0K	100K	200K	390K
68	130	270	510	1.0K	2.0K	3.9K	7.5K	15.0K	30.0K	56.0K	110K	220K	430K
75	150	300	560	1.1K	2.2K	4.3K	8.2K	16.0K	33.0K	62.0K	120K	240K	470K
82	160	330	620	1.2K	2.4K	4.7K	9.1K	18.0K	36.0K	68.0K	130K	270K	

0.1%, 0402 Series, 1/16 Watt — Resistor Values

47	110	200	360	604	1.0K	1.78K	3.16K	5.6K	8.87K	15K	27K	49.9K	76.8K
49.9	120	210	374	620	1.05K	1.8K	3.3K	5.9K	9.1K	16K	28K	51K	80.6K
51	124	220	390	649	1.1K	2.0K	3.6K	6.04K	9.76K	16.5K	30K	54.9K	82K
56	130	240	402	680	1.2K	2.1K	3.74K	6.2K	10K	17.8K	31.6K	56K	88.7K
62	137	249	430	681	1.24K	2.2K	3.9K	6.49K	10.5K	18K	33K	59K	91K
68	140	261	470	750	1.3K	2.4K	4.02K	6.8K	11K	20K	36K	60.4K	97.6K
75	150	270	499	768	1.37K	2.49K	4.3K	6.81K	12K	21K	37.4K	62K	100K
82	160	280	510	806	1.4K	2.61K	4.7K	7.5K	12.4K	22K	39K	64.9K	
91	165	300	549	820	1.5K	2.7K	4.99K	7.68K	13K	24K	40.2K	68K	
100	178	316	560	887	1.6K	2.8K	5.1K	8.06K	13.7K	24.9K	43K	68.1K	
105	180	330	590	910	1.65K	3.0K	5.49K	8.2K	14K	26.1K	47K	75K	

0.1%, 0603 Series, 1/10W — Resistor Values

47.0	200	475	1.15K	2.1K	3.24K	4.7K	7.87K	12.1K	24.0K	39.2K	68.0K	120K	301K
51.0	220	499	1.18K	2.15K	3.3K	4.75K	8.06K	12.4K	24.9K	40.2K	68.1K	124K	309K
56.0	221	510	1.2K	2.2K	3.32K	4.87K	8.2K	12.7K	25.5K	41.2K	73.2K	127K	330K
62.0	240	523	1.21K	2.21K	3.4K	4.99K	8.25K	13.0K	27.0K	42.2K	75.0K	130K	332K
68.0	249	560	1.24K	2.26K	3.48K	5.1K	8.45K	13.7K	27.4K	43.0K	76.8K	140K	
75.0	261	620	1.3K	2.32K	3.57K	5.11K	9.09K	14.7K	30.0K	43.2K	80.6K	150K	
82.0	270	604	1.4K	2.37K	3.6K	5.6K	9.1K	15.0K	30.1K	47.0K	82.0K	160K	
91.0	300	680	1.5K	2.4K	3.65K	5.62K	9.31K	15.4K	30.9K	47.5K	84.5K	180K	
100	301	750	1.54K	2.43K	3.74K	5.9K	9.53K	16.0K	31.6K	49.9K	86.6K	200K	
110	330	820	1.58K	2.49K	3.83K	6.04K	9.76K	16.5K	32.4K	51.0K	90.9K	220K	
120	360	825	1.6K	2.55K	3.9K	6.19K	10.0K	17.4K	33.0K	51.1K	91.0K	221K	
130	390	887	1.65K	2.61K	3.92K	6.2K	10.2K	18.0K	33.2K	53.6K	93.1K	226K	
133	402	910	1.69K	2.67K	4.02K	6.8K	10.5K	18.7K	34.8K	56.0K	100K	232K	
150	422	1.0K	1.8K	2.7K	4.12K	6.81K	10.7K	20.0K	35.7K	56.2K	102K	240K	
160	430	1.05K	1.82K	2.8K	4.3K	7.15K	11.0K	22.0K	36.0K	57.6K	105K	249K	
162	453	1.07K	1.91K	2.87K	4.32K	7.5K	11.3K	22.1K	38.3K	60.4K	110K	270K	
180	470	1.1K	2.0K	3.0K	4.64K	7.68K	12.0K	23.2K	39.0K	62.0K	113K	300K	

0.1%, 0805 Series, 1/8W — Resistor Values

47.0	180	475	953	2.0K	3.32K	5.49K	10.0K	16.5K	28.7K	47.5K	82.0K	169K	430K
51.0	200	499	1.0K	2.05K	3.57K	5.60K	10.2K	17.8K	30.0K	48.7K	82.5K	180K	470K
56.0	220	510	1.02K	2.2K	3.6K	5.76K	10.5K	18.0K	30.1K	49.9K	86.6K	182K	499K
62.0	240	511	1.05K	2.21K	3.9K	6.04K	11.0K	19.1K	31.6K	51.0K	88.7K	191K	510K
68.0	249	560	1.10K	2.32K	3.92K	6.2K	11.3K	20.0K	33.0K	51.1K	90.9K	196K	560K
75.0	270	562	1.2K	2.4K	4.02K	6.8K	12.0K	21.0K	33.2K	53.6K	91.0K	200K	620K
82.0	300	620	1.21K	2.49K	4.22K	7.15K	12.1K	22K	34.8K	56.0K	100K	220K	680K
91.0	316	649	1.3K	2.55K	4.3K	7.5K	13.0K	22.1K	36.0K	56.2K	102K	240K	750K
100	330	680	1.33K	2.61K	4.32K	7.87K	13.3K	23.2K	38.3K	60.4K	110K	249K	820K
110	360	698	1.5K	2.7K	4.64K	8.2K	13.7K	24.0K	39.0K	62.0K	115K	270K	910K
120	374	732	1.54K	2.74K	4.7K	8.25K	14.3K	24.3K	39.2K	64.9K	120K	280K	1.0M
124	390	750	1.6K	2.94K	4.75K	8.66K	15.0K	24.9K	40.2K	66.5K	124K	300K	
130	392	820	1.62K	3.0K	4.87K	8.87K	15.4K	25.5K	43.0K	68.0K	130K	301K	
140	430	845	1.69K	3.01K	4.99K	9.09K	15.8K	26.7K	45.3K	68.1K	140K	330K	
150	453	909	1.8K	3.09K	5.1K	9.1K	16.0K	27.0K	46.4K	75.0K	150K	360K	
160	470	910	1.82K	3.3K	5.11K	9.53K	16.2K	27.4K	47.0K	80.6K	160K	390K	

0.5%, 0402 Series, 1/16 Watt — Resistor Values

10.0	20.0	39.0	75.0	150	300	560	1.10K	2.20K	4.30K	8.20K	16.0K	33.0K	62.0K
11.0	22.0	43.0	82.0	160	330	620	1.20K	2.40K	4.70K	9.10K	18.0K	36.0K	68.0K
12.0	24.0	47.0	91.0	180	360	680	1.30K	2.70K	5.10K	10.0K	20.0K	39.0K	75.0K
13.0	27.0	51.0	100	200	390	750	1.50K	3.00K	5.60K	11.0K	22.0K	43.0K	82.0K
15.0	30.0	56.0	110	220	430	820	1.60K	3.30K	6.20K	12.0K	24.0K	47.0K	91.0K
16.0	33.0	62.0	120	240	470	910	1.80K	3.60K	6.80K	13.0K	27.0K	51.0K	100K
18.0	36.0	68.0	130	270	510	1.00K	2.00K	3.90K	7.50K	15.0K	30.0K	56.0K	

Description	Value Range (Ω)	TCR ppm/°C	Max. Oper. Volt.	Dimensions (mm)				Digi-Key Part No.§	Cut Tape Pricing			Digi-Key Part No.§	Tape and Reel		Susumu Part No.
				L	W	P	T		10	50	200		Qty.	Pricing	
RG Series															
0.02%, 0402, 1/16W	100 ~ 2.7K	±5 (V)	25	1.0	0.5	0.25	0.35	RG1005V(Value)PCT-ND	106.43	286.38	657.90	RG1005V(Value)PTR-ND	1,000	1232.00	RG1005V-xxx-P-T1
0.02%, 0603, 1/16W	100 ~ 4.7K	±5 (V)	75	1.6	0.8	0.3	0.4	RG1608V(Value)PCT-ND	106.43	286.38	657.90	RG1608V(Value)PTR-ND	1,000	1232.00	RG1608V-xxx-P-T1
0.02%, 0805, 1/10W	100 ~ 10K	±5 (V)	100	2.0	1.25	0.4	0.4	RG2012V(Value)PCT-ND	109.18	293.78	674.90	RG2012V(Value)PTR-ND	1,000	1264.00	RG2012V-xxx-P-T1
0.05%, 0603, 1/16W	47 ~ 270K	±10 (N)	75	1.6	0.8	0.3	0.4	RG16N(Value)WCT-ND	28.05	75.48	173.40	RG16N(Value)WTR-ND	1,000	340.00	RG1608N-xxx-W-T1
0.05%, 0805, 1/10W	47 ~ 470K	±10 (N)	100	2.0	1.25	0.4	0.4	RG20N(Value)WCT-ND	30.80	82.88	190.40	RG20N(Value)WTR-ND	1,000	374.00	RG2012N-xxx-W-T1
0.1%, 0402, 1/16W	47 ~ 100K	±25 (P)	25	1.0	0.5	0.25	0.35	RG10P(Value)BCT-ND	7.43	19.98	45.90	RG10P(Value)BTR-ND	5,000	85.00/M	RG1005P-xxx-B-T5
0.1%, 0603, 1/10W	47.0 ~ 332K	±25 (P)	75	1.6	0.8	0.3	0.4	RG16P(Value)BCT-ND	5.78	15.54	35.70	RG16P(Value)BTR-ND	5,000	65.00/M	RG1608P-xxx-B-T5
0.1%, 0805, 1/8W	47.0 ~ 1.0M	±25 (P)	100	2.0	1.25	0.4	0.4	RG20P(Value)BCT-ND	5.78	15.54	35.70	RG20P(Value)BTR-ND	5,000	65.00/M	RG2012P-xxx-B-T5
0.5%, 0402, 1/16W	10.0 ~ 43.0	±100 (R)	25	1.0	0.5	0.2	0.35	RG10R(Value)DCT-ND	1.72	4.63	10.63	RG10R(Value)DTR-ND	10,000	14.00/M	RG1005R-xxx-D-T10
0.5%, 0402, 1/16W	47.0 ~ 100K	±25 (P)	25	1.0	0.5	0.2	0.35	RG10P(Value)DCT-ND	1.72	4.63	10.63	RG10P(Value)DTR-ND	10,000	14.00/M	RG1005P-xxx-D-T10
RGH Series															
0.1%, 0805, 1/4W	47 ~ 470K	±25 (P)	125	2.0	1.25	0.4	0.4	RGH20P(Value)BCT-ND	8.80	23.68	54.40	RGH20P(Value)BTR-ND	5,000	102.00/M	RGH2012-2E-P-xxx-B

§ For complete part number, substitute corresponding value from the Resistance Value Chart

0.05%, 0.1%, 0.5% SMD Resistors — Digi-Key® Assortment Kits

Digi-Key® 0.05%, 0603, 1/16W, RG Series, SMD Resistor Kits

SSM1608NW-KIT-ND	40 each of all 91 values	**$921.30**
RG1608NW-1-KIT-ND	10 each of values 47Ω ~ 750Ω	**$175.95**
RG1608NW-2-KIT-ND	10 each of values 820Ω ~ 13.0KΩ	**$175.95**
RG1608NW-3-KIT-ND	10 each of values 15.0KΩ ~ 270KΩ	**$175.95**

Digi-Key® 0.05%, 0805, 1/10W, RG Series, SMD Resistor Kits

SSM2012NW-KIT-ND	40 each of all 97 values	**$921.30**
RG2012NW-1-KIT-ND	10 each of values 47.0Ω ~ 910Ω	**$199.95**
RG2012NW-2-KIT-ND	10 each of values 1.0KΩ ~ 20.0KΩ	**$199.95**
RG2012NW-3-KIT-ND	10 each of values 22.0KΩ ~ 470KΩ	**$199.95**

Digi-Key® 0.1%, 0402, 1/16W, RG Series, SMD Resistor Kits

SSM1005PB-KIT-ND	40 each of 81 values ▲	**$366.30**

Digi-Key® 0.1%, 0603, 1/10W, RG Series, SMD Resistor Kits

SSM1608PB-KIT-ND	40 each of 93 values ▲	**$183.15**

Digi-Key® 0.1%, 0805, 1/8W, RG Series, SMD Resistor Kits

SSM2012PB-KIT-ND	40 each of 105 values ▲	**$183.15**

Digi-Key® 0.5%, 0402, 1/16W, RG Series, SMD Resistor Kits

SSM1005PD-KIT-ND	60 each of all 97 values	**$183.15**

▲ Please see the Digi-Key website for a complete list of the values included in the kits.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

THIN FILM TECHNOLOGY
SSM SUSUMU CO., LTD

Thin Film Low Resistance Chip Resistors Series
0402/0805/0815/0830/1206/2512 SMD, 1%, 2% and 5% – 1/8, 1/4, 1/2, 1 and 2 Watt

Susumu's Thin Film Low Resistance series current sensing resistors provide excellent heat dissipation which allows higher power handling in smaller package sizes. Their patented structure will not create "hot spots" and evenly distribute heat across the total surface area of the resistor.

A specially designed construction assures small dimensions and repressed surface temperature increase due to heat radiation and thermal conduction. This construction also minimizes the thermal effects on peripheral areas. Patent 2963671.

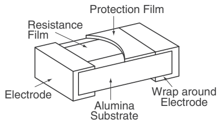

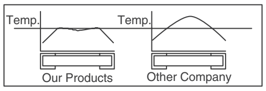

RL0510, RL1220, RL1632, RL3264

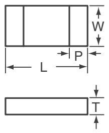

RL3720, RL3720W, RL7520W, PRL1632

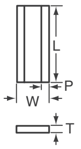

Digi-Reel®

4 Terminal Type

RL32L4

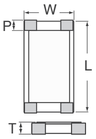

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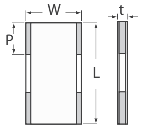

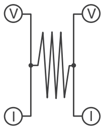

1%, 0402 Series, 1/8 Watt — RL0510S Series Resistor Values

.15◆	.22◆	1.0◆	1.5	2.2◆	3.3◆	4.7◆

2%, 0402 Series, 1/8 Watt — RL0510S Series Resistor Values

.15	.22	1.0	2.2

1%, 0805 Series, 1/4 Watt — RL1220S Series Resistor Values

.10	.16	.27	.43	.62	1.00	1.6	2.70	4.3	6.8
.11	.18	.30	.47	.68	1.1	1.80	3.00	4.70	7.5
.12	.20	.33	.50	.75	1.2	2.0	3.30	5.1	8.2
.13	.22	.36	.51	.82	1.30	2.20	3.6	5.6	9.1
.15	.24	.39	.56	.91	1.50	2.4	3.9	6.2	10.0

2%, 0805 Series, 1/4 Watt — RL1220T/S Series Resistor Values

.022◆	.05◆	.082◆	.18	.30◆	.68	1.50	3.30◆
.033◆	.056◆	.10◆	.20◆	.33◆	.82◆	1.80	4.70
.039◆	.068◆	.12◆	.22◆	.36	1.00◆	2.20	10.0◆
.047◆	.075◆	.15	.24	.47◆	1.30	2.70	

5%, 0805 Series, 1/4 Watt — RL1220T Series Resistor Values

.010◆	.013◆	.018◆	.024◆	.030◆	.039◆	.05◆	.062◆	.082
.011◆	.015◆	.020◆	.025◆	.033◆	.043◆	.051◆	.068◆	.091◆
.012◆	.016◆	.022◆	.027◆	.036◆	.047◆	.056◆	.075◆	

1%, 0815 Series, 1/2 Watt — RL3720T/S Series Resistor Values

.018	.022	.047	.10

1%, 0815 Series, 1 Watt — RL3720WT/S Series Resistor Values

.004	.012	.016	.03	.047	.10	.33	.56
.008	.013	.02	.033	.05	.15	.43	.68
.01	.015	.022	.036	.068	.22	.47	1.00

2%, 0815 Series, 1/2 Watt — RL3720T/S Series Resistor Values

.018	.02	.022	.04	.047	.10

2%, 0815 Series, 1 Watt — RL3720WT Series Resistor Values

.01◆	.015◆	.022◆	.030◆	.047◆
.011	.018◆	.025◆	.033◆	.05◆
.012◆	.02	.028◆	.04	.068◆

5%, 0815 Series, 1 Watt — RL3720WT Series Resistor Values

.004	.005	.008

1%, 0830 Series, 2 Watt — RL7520WT/S Series Resistor Values

.01	.02	.050	.15	.33
.015	.047	.10	.22	.47

2%, 0830 Series, 2 Watt — RL7520WT Series Resistor Values

.009◆	.012◆	.02	.033◆	.047◆	.068◆
.01◆	.015◆	.022◆	.039◆	.050◆	

5%, 0830 Series, 2 Watt — RL7520WT Series Resistor Values

.001	.002	.003	.004	.005	.006	.009

1%, 1206 Series, 1/2 Watt — RL1632T/S/R Series Resistor Values

.027	.051	.10	.20	.39	.75	1.5	3.0
.030	.056	.11	.22	.43	.82	1.6	3.3
.033	.062	.12	.24	.47	.91	1.8	3.6
.036	.068	.13	.27	.51	1.0	2.0	3.9
.039	.075	.15	.30	.56	1.1	2.2	4.3
.043	.082	.16	.33	.62	1.2	2.4	4.7
.047	.091	.18	.36	.68	1.3	2.7	

2%, 1206 Series, 1/2 Watt — RL1632T Series Resistor Values

.010	.012	.015	.018	.022
.011	.013	.016	.020	.024

1%, 2512 Series, 1 Watt — RL3264T/S/R Series Resistor Values

.027	.047	.082	.15	.27	.47
.033	.056	.10	.18	.33	
.039	.068	.12	.22	.39	

2%, 2512 Series, 1 Watt — RL3264T Series Resistor Values

.010	.012	.015	.018	.022

1%, 2512 Series, 2 Watt — RL3264SW4 Series Resistor Values

.001	.003	.005	.007	.009
.002	.004	.006	.008	.010

1%, 2512 Series, 1 Watt — RL3264L4 Series Resistor Values

.003	.007	.015	.033	.056	.150	.390
.004	.008	.018	.039	.068	.180	.500
.005	.010	.022	.047	.082	.220	
.006	.012	.027	.050	.100	.270	

1%, 1206 Series, 1 Watt — PRL1632 Series Resistor Values

.005	.011	.020	.036	.056	.100
.006	.012	.022	.039	.062	
.007	.013	.024	.043	.068	
.008	.015	.027	.047	.075	
.009	.016	.030	.050	.082	
.010	.018	.033	.051	.091	

Description	Value Range (Ω)	TCR ppm/°C	Dimensions (mm)				Digi-Key Part No.§	Cut Tape Pricing			Digi-Key Part No.§	Tape and Reel		Susumu Part No.
			L	W	P	T		10	50	200		Qty.	Pricing	
1%, 0402, 1/8W	.15 ~ 4.7	0~200	1.00	0.50	0.20	0.35	RL05S(Value)FCT-ND	5.91	15.91	36.55	RL05S(Value)FTR-ND	10,000	62.40/M	RL0510S-xxx-F
2%, 0402, 1/8W	.15 ~ 2.2	0~200	1.00	0.50	0.20	0.35	RL05S(Value)GCT-ND	5.64	15.17	34.85	RL05S(Value)GTR-ND	10,000	59.20/M	RL0510S-xxx-G
1%, 0805, 1/4W	.10 ~ 10.0	0~200	2.00	1.25	0.40	0.40	RL12S(Value)FCT-ND◆	3.44	9.25	21.25	RL12S(Value)FTR-ND◆	5,000	35.70/M	RL1220S-xxx-F
2%, 0805, 1/4W	.022 ~ .082 .10 ~ 10.0	0~350 0~200	2.00	1.25	0.40	0.40	RL12T(Value)GCT-ND RL12S(Value)GCT-ND	5.36 3.44	14.43 9.25	33.15 21.25	RL12T(Value)GTR-ND RL12S(Value)GTR-ND	5,000 5,000	59.50/M 35.70/M	RL1220T-xxx-G RL1220S-xxx-G
5%, 0805, 1/4W	.010 ~ .091	0~350	2.00	1.25	0.40	0.40	RL12T(Value)JCT-ND	4.13	11.10	25.50	RL12T(Value)JTR-ND	5,000	44.20/M	RL1220T-xxx-J
1%, 0815, 1/2W	.018 ~ .047 .10	0~350 0~200	3.75	2.00	0.40	0.40	RL37T(Value)FCT-ND◆ RL37S.10FCT-ND◆	13.54 13.61	36.45 36.63	83.73 84.15	RL37T(Value)FTR-ND◆ RL37S.10FTR-ND◆	4,000 4,000	151.20/M 151.20/M	RL3720T-xxx-F RL3720S-xxx-F
1%, 0815, 1W	.004 ~ .068 .10 ~ 1.00	0~350 0~200	3.75	2.00	0.40	0.40	RL37WT(Value)FCT-ND◆ RL37WS(Value)FCT-ND◆	17.88 17.88	48.10 48.10	110.50 110.50	RL37WT(Value)FTR-ND◆ RL37WS(Value)FTR-ND◆	4,000 4,000	201.60/M 201.60/M	RL3720WT-xxx-F RL3720WS- xxx-F
2%, 0815, 1/2W	.018 ~ .047 .10	0~350 0~200	3.75	2.00	0.40	0.40	RL37T(Value)GCT-ND RL37S.10GCT-ND	11.83 12.38	31.82 33.30	73.10 76.50	RL37T(Value)GTR-ND RL37S.10GTR-ND	4,000 4,000	137.60/M 138.00/M	RL3720T-xxx-G RL3720S-xxx-G
2%, 0815, 1W	.01 ~ .068	0~350	3.75	2.00	0.40	0.40	RL37WT(Value)GCT-ND	16.50	44.40	102.00	RL37WT(Value)GTR-ND	4,000	185.60/M	RL3720WT-xxx-G
5%, 0815, 1W	.004 ~ .008	0~350	3.75	2.00	0.40	0.40	RL37WT(Value)JCT-ND◆	19.80	53.28	122.40	RL37WT(Value)JTR-ND◆	4,000	224.00/M	RL3720WT-xxx-J
1%, 0830, 2W	.01 ~ .050 .10 ~ .47	0~350 0~200	7.50	2.00	0.40	0.40	RL75WT(Value)FCT-ND◆ RL75WS(Value)FCT-ND◆	18.77 19.32	50.51 51.99	116.03 119.43	RL75WT(Value)FTR-ND◆ RL75WS(Value)FTR-ND◆	4,000 4,000	218.40/M 218.40/M	RL7520WT-xxx-F RL7520WS-xxx-F
2%, 0830, 2W	.009 ~ .068	0~350	7.50	2.00	0.40	0.40	RL75WT(Value)GCT-ND	18.56	49.95	114.75	RL75WT(Value)GTR-ND	4,000	209.60/M	RL7520WT-xxx-G
5%, 0830, 2W	.001 ~ .009	0~350	7.50	2.00	0.40	0.40	RL75WT(Value)JCT-ND◆	21.18	56.98	130.90	RL75WT(Value)JTR-ND◆	4,000	240.00/M	RL7520WT-xxx-J
1%, 1206, 1/2W	.027 ~ .030 .033 ~ .051 .056 ~ 4.7	0~350 0~200 ±100	3.20	1.60	1.00	0.50	RL16T(Value)FCT-ND◆ RL16S(Value)FCT-ND◆ RL16R(Value)FCT-ND◆	11.55 11.55 11.55	31.08 31.08 31.08	71.40 71.40 71.40	RL16T(Value)FTR-ND◆ RL16S(Value)FTR-ND◆ RL16R(Value)FTR-ND◆	5,000 5,000 5,000	136.00/M 136.00/M 136.00/M	RL1632T-xxx-F RL1632S-xxx-F RL1632R-xxx-F
2%, 1206, 1/2W	.010 ~ .024	0~350	3.20	1.60	1.00	0.50	RL16T(Value)GCT-ND◆	11.55	31.08	71.40	RL16T(Value)GTR-ND◆	5,000	136.00/M	RL1632T-xxx-G
1%, 2512, 1W	.027 .033 ~ .047 .056 ~ .47	0~350 0~200 ±100	6.40	3.20	2.00	0.50	RL32T.027FCT-ND◆ RL32S(Value)FCT-ND◆ RL32R(Value)FCT-ND◆	28.05 28.05 28.05	75.48 75.48 75.48	173.40 173.40 173.40	RL32T.027FTR-ND◆ RL32S(Value)FTR-ND◆ RL32R(Value)FTR-ND◆	5,000 5,000 5,000	340.00/M 340.00/M 340.00/M	RL3264T-xxx-F RL3264S-xxx-F RL3264R-xxx-F
2%, 2512, 1W	.010 ~ .022	0~350	6.40	3.20	2.00	0.50	RL32T(Value)GCT-ND◆	28.05	75.48	173.40	RL32T(Value)GTR-ND◆	5,000	340.00/M	RL3264T-xxx-G
1%, 2512, 2W	.001 .002 ~ .004 .005 ~ .010	±300 ±200 ±100	6.40	3.20	2.70	0.50	RL32SW4.001FCT-ND◆ RL32SW4(Value)FCT-ND◆ RL32SW4(Value)FCT-ND◆	44.70 44.70 44.70	128.35 128.35 128.35	350.32 350.32 350.32	RL32SW4.001FTR-ND◆ RL32SW4(Value)FTR-ND◆ RL32SW4(Value)FTR-ND◆	5,000 5,000 5,000	1020.00/M 1020.00/M 1020.00/M	RL3264SW4-001M-F-T5 RL3264SW4-xxxM-F-T5 RL3264SW4-xxxM-F-T5
1%, 2512, 1W	.003 ~ .005 .006 ~ .500	±100 ±50	6.40	3.20	0.60	0.50	RL32L4(Value)FCT-ND◆ RL32L4(Value)FCT-ND◆	37.30 37.30	107.10 107.10	292.32 292.32	RL32L4(Value)FTR-ND◆ RL32L4(Value)FTR-ND◆	5,000 5,000	850.00/M 850.00/M	RL3264L4-Rxxx-F RL3264L4-Rxxx-F
1%, 1206, 1W	.005 ~ .009 .010 ~ .018 .020 ~ .051 .056 ~ .100	0~350 0~200 ±100 ±50	3.20	1.60	0.45	0.50	PRL1632(Value)FCT-ND◆	9.04	26.06	62.55	PRL1632(Value)FTR-ND◆	1,000	216.00	PRL1632-xxx-F-T1

§ For complete part number, substitute corresponding value from the Resistance Value Chart ◆ ***RoHS Compliant***

1%, 2 and 5% SMD Resistors — Digi-Key® Assortment Kits

Digi-Key® 1%, 0805, 1/4W, RL Series SMD Chip Resistor Kit
RL1220SF-1-KIT-ND◆ 10 each of values .10Ω ~ 10.0Ω **$19.95**

Digi-Key® 2%, 0805, 1/4W, RL Series SMD Chip Resistor Kit
RL1220SG-1-KIT-ND◆ 10 each of values .022Ω ~ 10.0Ω **$15.95**

Digi-Key® 1, 2 and 5% 0805, 1/4W, RL Series SMD Thin Film Resistor Kit
SSM1220-KIT-ND 40 each of 31 values ▲◆ **$109.15**

Digi-Key® 1%, 0815, 1W, RL Series SMD Thin Film Resistor Kit
SSM3720W-KIT-ND 30 each of 20 values ▲◆ **$90.65**

Digi-Key® 1, 2 and 5%, 0830, 2W, RL Series SMD Thin Film Resistor Kit
SSM7520W-KIT-ND 30 each of 16 values ▲◆ **$127.65**

▲ Please see Digi-Key website for a complete list of values included in the kits. ◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SMD Power Dividers

Digi-Reel® RoHS COMPLIANT

Operating Temperature: -40°C ~ 125°C
Excellent high frequency characteristics from DC ~ 20 GHz.

Type	Dimensions – mm				
	L	W	a	b	T
PS1608 (G)	1.6	0.8	0.4	0.3	0.4
PS2012 (G)	2.0	1.25	0.4	0.3	0.4
PS3216 (G)	3.2	1.6	0.3	0.35	0.4

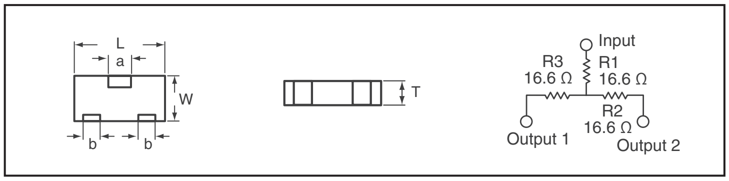

Type	Frequency Range	Distribution Deviation	Input or Output VSWR		Attenuation Tolerance		Input Power		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	T&R Pricing	Susumu Part No.
			1.3 or Less	1.5 or Less	6±0.5dB	6±1.0dB	Typ.	Max.		1	10	100		5,000	
PS1608	DC ~ 20GHz	Within 0.3dB	DC ~ < 10GHz	10 ~ 20GHz	DC ~ < 10GHz	10 ~ 20GHz	100mW	200mW	408-1093-1-ND	2.28	19.50	130.00	408-1093-2-ND	780.00/M	PS1608GT2-R50-T5
PS2012	DC ~ 17.5GHz	Within 0.3dB	DC ~ < 10GHz	10 ~ 17.5GHz	DC ~ < 10GHz	10 ~ 17.5GHz	125mW	250mW	408-1094-1-ND	3.85	33.00	220.00	408-1094-2-ND	1320.00/M	PS2012GT2-R50-T5
PS3216	DC ~ 15GHz	Within 0.3dB	DC ~ < 10GHz	10 ~ 15GHz	DC ~ < 10GHz	10 ~ 15GHz	250mW	500mW	408-1095-1-ND	5.95	51.00	340.00	408-1095-2-ND	2040.00/M	PS3216GT2-R50-T5

0201 / 0402 / 0603 / 0805 SMD .1% and .5% Thin Film Chip Resistors – High Precision RR Series - 1/10, 1/16, 1/20 Watt

Digi-Reel®

Susumu has been manufacturing thin film resistors since 1986 and is the primary thin film supplier in the world. Susumu's Number One status in thin film resistors can be attributed to the sales of the RR series thin film chip resistors. The RR series offers excellent TCR tolerances, Linearity specifications and Low Current Noise. These specifications contribute to circuit simplification, and cost savings as they eliminate the need for trimmer pots in the circuit for adjustment.

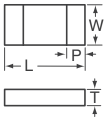

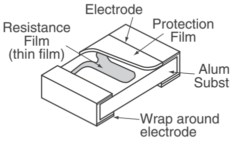

Current Noise Comparison
RR Series Thin Film vs. Thick Film
Why RR Series has lower current noise Specifications

Resistance material of RR Series	Resistance material of Thick Film
Ni-Cr Alloy	Metal and Insulator Composite
Current flow is	Current flow is
practically even	**not even**

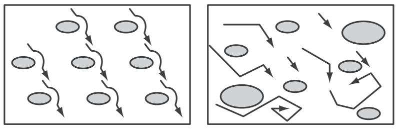

.1%, 1/16 Watt - Series 0603 — Resistor Values

107	221◆	357	560◆	1.15K◆	2.21K◆	3.4K◆	4.3K◆	6.04K◆	9.31K◆	14.3K◆	35.7K◆	51.0K◆	82.0K	215K◆
110◆	232	360◆	562◆	1.18K◆	2.26K◆	3.48K◆	4.32K◆	6.19K◆	9.53K	16.0K◆	36.0K◆	51.1K◆	90.9K◆	221K◆
115	237	422◆	604◆	1.2K◆	2.37K◆	3.6K◆	4.64K◆	6.2K	9.76K◆	17.4K◆	38.3K◆	53.6K◆	95.3K	232K◆
120◆	261◆	430	680◆	1.21K◆	2.4K◆	3.65K◆	4.75K◆	6.8K◆	10.2K◆	22.1K◆	39.0K◆	56.0K◆	113K◆	249K◆
147	267◆	432◆	820◆	1.24K◆	2.43K◆	3.74K◆	4.87K◆	7.5K◆	10.5K	27.0K◆	41.2K◆	57.6K◆	120K◆	270K◆
150◆	270◆	453◆	825◆	1.3K◆	2.55K◆	3.83K◆	5.1K◆	7.68K◆	11.0K◆	30.9K	42.2K◆	60.4K◆	124K◆	301K◆
162	300◆	470◆	845	1.33K◆	2.61K◆	3.9K◆	5.11K◆	7.87K◆	12.1K◆	31.6K◆	43.0K◆	68.1K◆	127K◆	309K◆
180◆	301◆	475◆	887◆	1.6K◆	2.67K◆	3.92K◆	5.6K◆	8.06K◆	12.4K◆	32.4K◆	43.2K◆	75.0K◆	130K◆	324K◆
200◆	330◆	523◆	1.07K◆	1.82K◆	2.7K◆	4.12K◆	5.62K◆	8.45K◆	13.0K◆	33.2K◆	47.0K◆	76.8K◆	140K◆	330K◆
220◆	348◆	549◆	1.1K◆	2.1K◆	2.87K◆	4.22K	5.9K◆	9.1K	13.7K◆	34.8K◆	47.5K◆	80.6K◆	180K	332K◆

.1%, 1/10 Watt - Series 0805 — Resistor Values

102	240◆	470◆	750◆	1.6K	2.55K◆	4.3K◆	7.87K◆	12.0K◆	17.4K	26.1K◆	39.0K◆	62.0K◆	102K◆	243K◆
110◆	267	475◆	820◆	1.62K◆	2.7K◆	4.32K◆	8.2K◆	13.0K◆	17.8K◆	26.7K◆	45.3K◆	64.9K◆	110K◆	270K
124◆	274	499◆	909◆	1.69K◆	2.94K◆	4.64K◆	8.25K◆	13.3K◆	18.0K◆	27.0K◆	46.4K◆	66.5K◆	115K◆	301K◆
127	300◆	510◆	953◆	1.74K◆	3.09K◆	4.75K◆	8.66K◆	13.7K◆	18.7K◆	28.7K◆	47K◆	68.0K	120K◆	360K◆
130◆	301◆	511◆	1.02K◆	1.8K◆	3.57K◆	4.87K◆	8.87K	14.3K◆	19.1K◆	30.0K◆	47.5K◆	68.1K◆	124K◆	390K
140◆	316◆	536	1.07K◆	1.82K◆	3.6K	5.49K◆	9.1K◆	15.0K◆	21.5K◆	31.6K◆	48.7K◆	75.0K◆	133K◆	430K◆
150◆	324	549◆	1.15K	1.91K◆	3.65K◆	5.76K◆	9.53K◆	15.4K◆	22K◆	33.0K◆	49.9K◆	82.0K◆	140K◆	499K◆
162◆	330◆	562◆	1.2K◆	2.05K◆	3.9K◆	6.04K◆	10.2K◆	15.8K◆	22.1K◆	34.8K◆	51.0K◆	86.6K◆	169K◆	649K◆
180	390◆	604◆	1.21K◆	2.15K	3.92K	6.2K◆	10.5K◆	16.0K◆	23.2K◆	36.0K◆	51.1K◆	88.7K◆	182K◆	680K◆
187	392◆	698◆	1.24K◆	2.21K◆	4.02K◆	6.49K◆	11.0K◆	16.2K◆	24.0K◆	36.5K◆	53.6K◆	90.9K◆	191K	
196	453◆	732◆	1.3K◆	2.32K◆	4.22K◆	7.15K◆	11.3K◆	16.5K◆	25.5K◆	38.3K◆	56.0K◆	97.6K◆	196K◆	

.5%, 1/20 Watt - Series 0201 — Resistor Values

47	100	130	470	3.3K	4.3K	5.6K	8.2K
82	120	220	560	3.9K	4.7K	6.8K	

.5%, 1/16 Watt - Series 0402 — Resistor Values

10◆	51◆	150◆	330◆	680◆	1.62K◆‡	2.87K◆‡	4.99K◆‡	8.06K◆‡	13.0K◆	23.2K◆‡	40.2K◆‡	64.9K◆‡
15◆	56◆	160◆	332◆‡	750◆	1.8K◆	3.0K◆	5.1K◆	8.2K◆	13.7K◆‡	24.0K	43.0K◆	68.0K
20◆	56.2◆	169◆‡	360◆	820◆	1.87K◆‡	3.16K◆‡	5.36K◆‡	8.45K◆‡	14.7K◆‡	24.9K◆‡	45.3K◆‡	75.0K◆
22◆	62	180◆	390◆	825◆‡	1.96K◆‡	3.3K◆	5.49K◆‡	9.09K◆‡	15.0K◆	25.5K◆‡	47.0K◆	82.0K◆
24◆	68◆	200◆	402◆‡	910	2.0K◆	3.32K◆‡	5.6K◆	9.1K◆	15.4K◆‡	27.0K◆	49.9K◆‡	86.6K◆‡
27◆	75◆	220◆	430	1.0K◆	2.1K◆‡	3.6K◆	5.62K◆‡	10.0K◆	16.0K	28.7K◆‡	51.0K◆	90.9K◆‡
30◆	82◆	240◆	470◆	1.1K◆	2.2K◆	3.74K◆‡	5.76K◆	10.5K◆‡	18.0K◆	30.0K◆	56.0K◆	100K◆
33◆	100◆	249◆‡	499◆‡	1.2K◆	2.31K◆‡	3.9K◆	6.04K◆‡	10.7K◆‡	18.2K◆‡	33.0K◆	56.2K◆‡	
36	110◆	255◆‡	510◆	1.21K◆‡	2.4K◆	4.02K◆‡	6.2K◆	11.3K◆	18.7K◆‡	33.2K◆‡	57.6K◆‡	
39◆	120◆	270◆	560◆	1.3K◆	2.49K◆‡	4.3K◆	6.49K◆‡	12.0K	20.0K◆	36.0K	59K◆‡	
47◆	130◆	287◆‡	620◆	1.5K◆	2.55K◆‡	4.53K◆‡	6.8K◆	12.1K◆‡	21K◆‡	36.5K◆‡	60.4K◆‡	
49.9◆	137◆‡	300◆	649◆‡	1.6K	2.7K◆	4.7K◆	7.5K◆	12.4K◆‡	22.0K◆	39.0K◆	62.0K◆	

.5%, 1/16 Watt - Series 0603 — Resistor Values

10◆	27◆	51.1◆	133◆	274◆	470◆	820◆	1.4K◆	2.32K◆	3.4K◆	4.99K◆	6.98K◆	10.5K◆	16.2K◆	24.0K◆	36.0K◆	56.2K◆	100K◆	220K◆
11◆	30◆	54.9◆	147	280◆	475◆	825◆	1.47K◆	2.37K◆	3.48K◆	5.1K◆	7.15K◆	10.7K◆	16.5K◆	24.3K◆	36.5K◆	59.0K◆	102K◆	221K◆
11.8	33◆	56◆	150◆	300◆	499◆	845	1.5K◆	2.4K◆	3.57K◆	5.11K◆	7.32K◆	11.0K◆	16.9K◆	24.9K◆	37.4K◆	60.4K◆	107K	240K◆
12◆	33.2◆	56.2◆	154◆	301◆	510◆	910◆	1.54K◆	2.43K◆	3.6K◆	5.23K◆	7.5K◆	11.3K◆	17.4K	26.1K◆	39.0K◆	61.9K◆	110K◆	243K◆
12.1◆	34	60.4◆	160◆	330◆	560◆	976◆	1.6K◆	2.49K◆	3.65K◆	5.36K◆	7.87K◆	11.5K	17.8K◆	27.0K◆	40.2K◆	62.0K◆	113K◆	249K◆
12.4◆	35.7◆	62◆	165◆	332◆	562◆	1.0K◆	1.62K◆	2.55K	3.74K◆	5.49K◆	8.06K◆	12.0K◆	18.0K◆	27.4K◆	43.0K◆	66.5K◆	118K◆	255K◆
13◆	36◆	68◆	180◆	340◆	590◆	1.02K◆	1.69K◆	2.61K◆	3.9K◆	5.6K◆	8.2K◆	12.1K◆	18.2K◆	28.0K◆	43.2K◆	68.0K◆	120K◆	270K◆
15◆	37.4◆	68.1◆	182	348◆	604◆	1.07K	1.78K◆	2.67K◆	3.92K◆	5.62K	8.25K◆	12.4K◆	18.7K◆	28.7K◆	44.2K◆	68.1K◆	124K◆	284K◆
16◆	38.3	75◆	200◆	357◆	619	1.1K◆	1.8K◆	2.7K◆	4.02K◆	5.76K◆	8.45K◆	12.7K◆	19.1K◆	29.4K◆	47.0K◆	69.8K◆	130K◆	300K◆
16.9◆	39◆	82◆	210◆	360◆	620◆	1.13K◆	1.82K◆	2.74K◆	4.12K◆	5.9K◆	8.66K◆	13.0K◆	19.6K◆	30.0K◆	47.5K◆	73.2K◆	140K◆	301K◆
18◆	39.2	82.5◆	215◆	365◆	634◆	1.15K◆	1.87K◆	2.80K◆	4.22K◆	6.04K◆	8.87K◆	13.3K◆	20.0K◆	30.1K◆	48.7K◆	75.0K◆	147K◆	309K◆
20◆	40.2◆	91◆	220◆	390◆	649◆	1.18K◆	1.96K◆	2.87K	4.3K◆	6.19K◆	9.09K◆	13.7K◆	20.5K◆	30.9K◆	49.9K◆	78.7K	150K◆	324K◆
20.5◆	41.2◆	100◆	221◆	392◆	680◆	1.2K◆	2.0K◆	3.0K◆	4.42K◆	6.2K◆	9.1K◆	14.0K◆	21.0K◆	31.6K◆	51.0K◆	80.6K◆	160K◆	330K◆
21.5◆	43◆	110◆	226◆	402◆	681◆	1.21K◆	2.1K◆	3.01K◆	4.53K◆	6.34K◆	9.31K◆	14.3K◆	21.5K◆	32.4K◆	51.1K◆	82.0K◆	165K◆	332K◆
22◆	47◆	120◆	232◆	422◆	698◆	1.24K◆	2.15K◆	3.09K◆	4.64K◆	6.49K◆	9.53K◆	14.7K◆	22.0K◆	33.0K◆	52.3K	84.5K◆	178K◆	357K
22.1◆	47.5	121	240◆	430◆	715	1.27K◆	2.2K◆	3.16K	4.7K◆	6.65K◆	9.76K◆	15.0K◆	22.1K◆	33.2K◆	53.6K◆	90.9K◆	180K◆	360K◆
24◆	49.9◆	124◆	267◆	432	750◆	1.3K◆	2.21K◆	3.3K◆	4.75K◆	6.8K◆	10.0K◆	15.8K◆	22.6K◆	34.0K◆	54.9K◆	91.0K◆	200K◆	
24.9◆	51◆	130◆	270◆	464◆	806◆	1.37K	2.26K◆	3.32K◆	4.87K◆	6.81K◆	10.2K◆	16.0K◆	23.2K◆	34.8K	56.0K◆	95.3K◆	210K◆	

◆ ***RoHS Compliant*** ‡ Not available in assortment kits

(Continued)

THIN FILM TECHNOLOGY
SSM SUSUMU CO., LTD

0201 / 0402 / 0603 / 0805 SMD .1% and .5% Thin Film Chip Resistors

High Precision RR Series – 1/10, 1/16, 1/20 Watt *(Cont.)*

.5%, 1/10 Watt - Series 0805 — Resistor Values

10◆	30◆	82.5◆	220◆	560◆	1.58K◆	3.0K◆	5.11K◆	10.2K◆	19.6K◆	36.5K◆	71.5K◆	187K◆	499K◆
11◆	30.1	86.6◆	226	576◆	1.6K◆	3.01K◆	5.36K◆	10.5K◆	20.0K◆	37.4K◆	73.2K◆	191K	510K◆
11.5◆	30.9◆	88.7◆	232◆	590◆	1.65K	3.09K◆	5.49K◆	11.0K◆	21.0K◆	39.0K◆	75.0K◆	200K◆	549K◆
12◆	32.4	91◆	240◆	604◆	1.69K◆	3.16K◆	5.6K◆	11.3K◆	21.5K◆	39.2K◆	80.6K◆	205K◆	560K◆
12.4◆	33◆	100◆	249◆	620◆	1.78K◆	3.24K◆	5.62K◆	11.5K◆	22.0K◆	40.2K◆	82.0K◆	210K◆	604K◆
13◆	34.8◆	107◆	255◆	649◆	1.8K◆	3.3K◆	5.76K◆	11.8K◆	22.1K◆	41.2K◆	82.5K◆	220K◆	620K◆
13.3	35.7	110◆	267◆	680◆	1.82K◆	3.32K◆	5.9K◆	12.0K◆	23.2K◆	43.0K◆	84.5K◆	226K◆	665K◆
14.3◆	36◆	120◆	270◆	681◆	1.87K◆	3.4K◆	6.04K◆	12.1K◆	23.7K◆	44.2K◆	86.6K◆	232K◆	680K◆
14.7◆	39◆	121◆	280◆	750◆	1.91K◆	3.48K◆	6.19K◆	12.4K◆	24.0K◆	45.3K◆	88.7K	240K◆	715K◆
15◆	40.2◆	124◆	287◆	820◆	1.96K◆	3.6K◆	6.2K◆	12.7K◆	24.3K◆	47.0K◆	90.9K◆	249K◆	750K◆
16◆	41.2◆	127◆	300◆	887◆	2.0K◆	3.65K◆	6.65K◆	13.0K◆	24.9K◆	47.5K◆	91.0K◆	255K◆	820K◆
16.5◆	43◆	130◆	309◆	910◆	2.05K◆	3.74K◆	6.8K◆	13.3K◆	25.5K◆	48.7K	95.3K◆	270K◆	887K◆
17.4◆	47◆	133◆	316◆	976◆	2.1K◆	3.83K◆	6.81K◆	13.7K◆	26.1K	49.9K◆	100K◆	280K◆	910K◆
17.8◆	47.5	140◆	330◆	1.0K◆	2.15K◆	3.9K◆	6.98K◆	14.0K◆	26.7K◆	51.0K◆	102K◆	300K◆	931K◆
18◆	49.9◆	143◆	332◆	1.1K◆	2.2K◆	3.92K◆	7.15K◆	14.3K◆	27.0K◆	51.1K◆	105K◆	301K◆	1.0M◆
19.6◆	51◆	147◆	360◆	1.13K◆	2.21K◆	4.02K◆	7.5K◆	14.7K◆	27.4K◆	53.6K◆	110K◆	330K◆	
20◆	54.9◆	150◆	365◆	1.15K◆	2.26K◆	4.12K◆	7.87K◆	15.0K◆	28.7K◆	54.9K◆	115K	332K	
20.5◆	56◆	160◆	390◆	1.18K◆	2.32K◆	4.3K	8.06K◆	15.4K	30.0K◆	56.0K◆	118K◆	357K◆	
21.5◆	56.2◆	162◆	392◆	1.2K◆	2.37K◆	4.32K◆	8.2K◆	15.8K	30.1K◆	56.2K◆	120K◆	360K◆	
22◆	60.4◆	165◆	412◆	1.21K◆	2.4K◆	4.42K◆	8.25K◆	16.0K◆	30.9K◆	57.6K◆	121K◆	365K◆	
22.6	61.9	174◆	430◆	1.27K◆	2.43K◆	4.53K◆	8.45K◆	16.2K	31.6K◆	59.0K◆	130K◆	374K◆	
24◆	62	178◆	470◆	1.3K◆	2.49K◆	4.64K◆	8.87K◆	16.5K◆	32.4K◆	60.4K◆	140K◆	390K◆	
24.9◆	68◆	180◆	475◆	1.33K◆	2.55K◆	4.7K◆	9.09K	16.9K◆	33.0K◆	62.0K◆	143K◆	402K◆	
25.5◆	69.8◆	182◆	499◆	1.37K◆	2.61K◆	4.75K◆	9.1K◆	17.4K◆	33.2K◆	64.9K	150K◆	412K◆	
27◆	75◆	200◆	510◆	1.40K◆	2.7K◆	4.87K◆	9.53K◆	18.0K◆	34.8K◆	66.5K◆	160K◆	430K◆	
27.4◆	80.6◆	205◆	523◆	1.5K◆	2.8K◆	4.99K◆	9.76K◆	18.7K	35.7K◆	68.0K◆	178K◆	470K◆	
29.4◆	82◆	215◆	549◆	1.54K◆	2.94K◆	5.1K◆	10.0K◆	19.1K◆	36.0K◆	68.1K◆	180K◆	475K◆	

Description	Value Range (Ω)	TCR ppm/°C	Maximum Operating Voltage (V)	Dimensions (mm) L	W	P	T	Digi-Key Part No.†	Cut Tape Pricing 10	50	200	Digi-Key Part No.†	Tape and Reel Qty.	Pricing	Susumu Part No.
.1%, 0603, 1/16W	107 ~ 332K	±25	75	1.60	0.80	0.30	0.40	RR08P(Value)BCT-ND	5.78	15.54	35.70	RR08P(Value)BTR-ND	5,000	64.60/M	RR0816P-xxx-B
.1%, 0805, 1/10W	102 ~ 680K	±25	100	2.00	1.25	0.40	0.40	RR12P(Value)BCT-ND	5.78	15.54	35.70	RR12P(Value)BTR-ND	—	—	RR1220P-xxx-B
.5%, 0201, 1/20W	47 ~ 8.2K	±25	15	0.06	0.30	0.12	0.23	RR03P(Value)DCT-ND◆	3.03	8.14	18.70	RR03P(Value)DTR-ND◆	5,000	30.60/M	RR0306P-xxx-D
.5%, 0402 1/16W	10 ~ 82 100 ~ 100K	±100 ±25	25	1.00	0.50	0.20	0.35	RR05R(Value)DCT-ND RR05P(Value)DCT-ND	1.20 1.20	3.22 3.22	7.40 7.40	RR05R(Value)DTR-ND RR05P(Value)DTR-ND	10,000 10,000	8.82/M 8.82/M	RR0510R-xxx-D RR0510P-xxx-D
.5%, 0603, 1/16W	10 ~ 91 100 ~ 360K	±50 ±25	75	1.60	0.80	0.30	0.40	RR08Q(Value)DCT-ND RR08P(Value)DCT-ND	1.40 1.40	3.77 3.77	8.67 8.67	RR08Q(Value)DTR-ND RR08P(Value)DTR-ND	5,000 5,000	11.16/M 11.16/M	RR0816Q-xxx-D RR0816P-xxx-D
.5%, 0805, 1/10W	10 ~ 91 100 ~ 1.0M	±50 ±25	100	2.00	1.25	0.40	0.40	RR12Q(Value)DCT-ND RR12P(Value)DCT-ND	1.40 1.40	3.77 3.77	8.67 8.67	RR12Q(Value)DTR-ND RR12P(Value)DTR-ND	5,000 5,000	11.16/M 11.16/M	RR1220Q-xxx-D RR1220P-xxx-D

† For complete part number, substitute corresponding value from the Resistor Value Chart. ◆ ***RoHS Compliant***

.1% and .5% SMD Resistors Digi-Key® Assortment Kits – *RoHS Compliant*

Digi-Key® .1%, 0603, 1/16W, RR Series, SMD Resistor Kits

RR0816PB-4-KIT-ND 10 each of values 15.4KΩ ~ 75.0KΩ **$59.95**
RR0816PB-5-KIT-ND 10 each of values 76.8KΩ ~ 332KΩ..... **$49.95**

Digi-Key® .5%, 0201, 1/20W, RR Series, SMD Resistor Kits

RR0306PD-1-KIT-ND 10 each of values 47Ω ~ 8.2KΩ **$9.95**

Digi-Key® .5%, 0402, 1/16W, RR Series, SMD Resistor Kits

RR0510RD-1-KIT-ND 10 each of values 10.0Ω ~ 82.0Ω.......... **$4.95**
RR0510PD-1-KIT-ND 10 each of values 100Ω ~ 4.3KΩ.......... **$9.95**
RR0510PD-2-KIT-ND 10 each of values 4.7KΩ ~ 100KΩ **$7.95**

Digi-Key® .5%, 0603, 1/16W, RR Series, SMD Resistor Kits

RR0816QD-1-KIT-ND 10 each of values 10Ω ~ 91.0Ω.......... **$13.95**
RR0816PD-1-KIT-ND 10 each of values 100Ω ~ 806Ω......... **$15.95**
RR0816PD-2-KIT-ND 10 each of values 820Ω ~ 4.75KΩ....... **$15.95**
RR0816PD-3-KIT-ND 10 each of values 4.87KΩ ~ 18.0KΩ **$15.95**
RR0816PD-4-KIT-ND 10 each of values 18.2KΩ ~ 68.1KΩ **$15.95**
RR0816PD-5-KIT-ND 10 each of values 69.8KΩ ~ 360KΩ..... **$12.95**
SSM0816PD-KIT-ND 60 each of 125 values ▲................ **$183.15**

Digi-Key® .5%, 0805, 1/10W, RR Series, SMD Resistor Kits

RR1220QD-1-KIT-ND 10 each of values 10Ω ~ 91Ω............ **$12.95**
RR1220PD-1-KIT-ND 10 each of values 100Ω ~ 1.6KΩ........ **$15.95**
RR1220PD-2-KIT-ND 10 each of values 1.65KΩ ~ 5.9KΩ...... **$15.95**
RR1220PD-3-KIT-ND 10 each of values 6.04KΩ ~ 24.3KΩ **$15.95**
RR1220PD-4-KIT-ND 10 each of values 24.9KΩ ~ 110KΩ..... **$15.95**
RR1220PD-5-KIT-ND 10 each of values 115KΩ ~ 1.0MΩ........ **$9.95**
SSM1220PD-KIT-ND 60 each of 161 values ▲................ **$183.15**

▲ Please see Digi-Key website for a complete list of values included in kit.

VISHAY. Thin Film

High Frequency Surface Mount Thin Film Chip Resistors (up to 20GHz)

RoHS COMPLIANT

FC Series Chip Resistors are designed with low internal reactance. They function as almost pure resistors on a very high range of frequencies. The specialized laser edge trimming allows for precision tolerances of 0.1%.

Features: • Excellent frequency response up to 20GHz • Edge-trimmed block resistors • Small internal reactance (<10mΩ) • Low TCR of ± 25ppm/°C

Applications: • Low-noise amplifiers • High-speed routers • Attenuation circuitry • High-frequency line termination

Specifications: • TCR: 25ppm/°C • Tolerance: ± 0.1% • Stability: 500ppm; 2000H @ 70°C • Operating Temperature Range: -55°C ~ 125°C • Resistive Element: Passivated Nichrome • Substrate Material: High Purity Alumina (99.6%)

Fig. 1

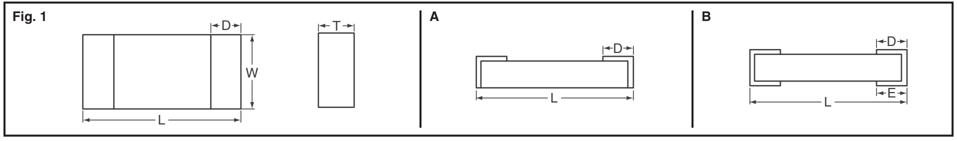

Case Size	Dimensions – mm Length (L)	Width (W)	Thickness (T)	Top Pad (D)	Bottom Pad (Wraparound Only) (E)
0402	1.016	0.508	0.381	0.305	0.381
0603	1.626	0.813	0.381	0.305	0.381

Fig.	Description	Resistance (Ω)	Rated Voltage (V)	Rated Power Max. @ 70°C	Termination	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Thin Film Part No.
1A	0.1%, 0402	50	30	50mW	Top Sided Lead (Flip Chip)	FC0402-50BFCT-ND	2.94	2.28	2.10	FC0402-50BFTR-ND	1,000	910.00	FC0402E50R0BTBST1
1B	0.1%, 0402	50	30	50mW	Wraparound Lead	FC0402-50BWCT-ND	2.94	2.28	2.10	FC0402-50BWTR-ND	1,000	910.00	FC0402E50R0BST1
1A	0.1%, 0402	100	30	50mW	Top Sided Lead (Flip Chip)	FC0402-100BFCT-ND	2.94	2.28	2.10	FC0402-100BFTR-ND	1,000	910.00	FC0402E1000BTBST1
1B	0.1%, 0402	100	30	50mW	Wraparound Lead	FC0402-100BWCT-ND	2.94	2.28	2.10	FC0402-100BWTR-ND	1,000	910.00	FC0402E1000BST1
1A	0.1%, 0603	50	50	125mW	Top Sided Lead (Flip Chip)	FC0603-50BFCT-ND	2.94	2.28	2.10	FC0603-50BFTR-ND	1,000	910.00	FC0603E50R0BTBST1
1B	0.1%, 0603	50	50	125mW	Wraparound Lead	FC0603-50BWCT-ND	2.94	2.28	2.10	FC0603-50BWTR-ND	1,000	910.00	FC0603E50R0BST1
1A	0.1%, 0603	100	50	125mW	Top Sided Lead (Flip Chip)	FC0603-100BFCT-ND	2.94	2.28	2.10	FC0603-100BFTR-ND	1,000	910.00	FC0603E1000BTBST1
1B	0.1%, 0603	100	50	125mW	Wraparound Lead	FC0603-100BWCT-ND	2.94	2.28	2.10	FC0603-100BWTR-ND	1,000	910.00	FC0603E1000BST1

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY. Dale

Surface Mount, 1% Thick-Film Chip Resistors

CRCW 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512

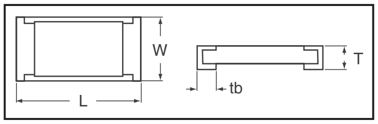

TEMPERATURE COEFFICIENT (ppm/K)																
Size Code	0201		0402		0603		0805		1206		1210		2010		2512	
Resistance Range (Ω)	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%
1 ~ 9.76	—	—	±200	—	±200	—	±200	—	±200	—	±200	—	±200	—	±200	—
1 ~ 10M	—	—	—	±200	—	±200	—	±200	—	±200	—	±200	—	±200	—	±200
10 ~ 1M	±200	±200	—	—	—	—	—	—	—	—	±100	—	±100	—	±100	—
10 ~ 10M	—	—	±100	—	±100	—	±100	—	±100	—	—	—	—	—	—	—

CRCW 1% 1/20W — 0201 Series

Resistor Values

10.0	24.9	49.9	100	274	499	1.00K	2.74K	4.75K	5.62K	7.50K	10.0K	27.4K	47.5K	56.2K	75.0K	100K	499K	1.00M
22.1	33.2	75	221	332	750	2.21K	3.32K	4.99K	6.81K	8.25K	22.1K	33.2K	49.9K	68.1K	82.5K	274K	750K	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
1%, 0201, 1/20Watt	10.0 ~1.00M	30	0.05	0.3	0.6	0.43	0.28	541-**(Value)**ABCT-ND	2.64	7.10	16.32	541-**(Value)**ABTR-ND	10,000	41.00/M	CRCW0201xxxxFNED

CRCW 1% 1/16W — 0402 Series

Resistor Values

1.00	1.96	3.60	6.49	12.4	24.0	43.2	80.6	158	294	523	976	1.91K	3.57K	6.34K	12.1K	23.7K	43.0K	78.7K	154K	287K	511K	953K	1.87M	3.48M
1.02	2.00	3.65	6.65	12.7	24.3	44.2	82.0	160	300	536	1.00K	1.96K	3.60K	6.49K	12.4K	24.0K	43.2K	80.6K	158K	294K	523K	976K	1.91M	3.57M
1.05	2.05	3.74	6.80	13.0	24.9	45.3	82.5	162	301	549	1.02K	2.00K	3.65K	6.65K	12.7K	24.3K	44.2K	82.0K	160K	300K	536K	1.00M	1.96M	3.60M
1.07	2.10	3.83	6.81	13.3	25.5	46.4	84.5	165	309	560	1.05K	2.05K	3.74K	6.80K	13.0K	24.9K	45.3K	82.5K	162K	301K	549K	1.02M	2.00M	3.65M
1.10	2.15	3.90	6.98	13.7	26.1	47.0	86.6	169	316	562	1.07K	2.10K	3.83K	6.81K	13.3K	25.5K	46.4K	84.5K	165K	309K	560K	1.05M	2.05M	3.74M
1.13	2.20	3.92	7.15	14.0	26.7	47.5	88.7	174	324	576	1.10K	2.15K	3.90K	6.98K	13.7K	26.1K	47.0K	86.6K	169K	316K	562K	1.07M	2.10M	3.83M
1.15	2.21	4.02	7.32	14.3	27.0	48.7	90.9	178	330	590	1.13K	2.20K	3.92K	7.15K	14.0K	26.7K	47.5K	88.7K	174K	324K	576K	1.10M	2.15M	3.90M
1.18	2.26	4.12	7.50	14.7	27.4	49.9	91.0	180	332	604	1.15K	2.21K	4.02K	7.32K	14.3K	27.0K	48.7K	90.9K	178K	330K	590K	1.13M	2.20M	3.92M
1.20	2.32	4.22	7.68	15.0	28.0	51.0	93.1	182	340	619	1.18K	2.26K	4.12K	7.50K	14.7K	27.4K	49.9K	91.0K	180K	332K	604K	1.15M	2.21M	4.02M
1.21	2.37	4.30	7.87	15.4	28.7	51.1	95.3	187	348	620	1.20K	2.32K	4.22K	7.68K	15.0K	28.0K	51.0K	93.1K	182K	340K	619K	1.18M	2.26M	4.12M
1.24	2.40	4.32	8.06	15.8	29.4	52.3	97.6	191	357	634	1.21K	2.37K	4.30K	7.87K	15.4K	28.7K	51.1K	95.3K	187K	348K	620K	1.20M	2.32M	4.22M
1.27	2.43	4.42	8.20	16.0	30.0	53.6	100	196	360	649	1.24K	2.40K	4.32K	8.06K	15.8K	29.4K	52.3K	97.6K	191K	357K	634K	1.21M	2.37M	4.30M
1.30	2.49	4.53	8.25	16.2	30.1	54.9	102	200	365	665	1.27K	2.43K	4.42K	8.20K	16.0K	30.0K	53.6K	100K	196K	360K	649K	1.24M	2.40M	4.32M
1.33	2.55	4.64	8.45	16.5	30.9	56.0	105	205	374	680	1.30K	2.49K	4.53K	8.25K	16.2K	30.1K	54.9K	102K	200K	365K	665K	1.27M	2.43M	4.42M
1.37	2.61	4.70	8.66	16.9	31.6	56.2	107	210	383	681	1.33K	2.55K	4.64K	8.45K	16.5K	30.9K	56.0K	105K	205K	374K	680K	1.30M	2.49M	4.53M
1.40	2.67	4.75	8.87	17.4	32.4	57.6	110	215	390	698	1.37K	2.61K	4.70K	8.66K	16.9K	31.6K	56.2K	107K	210K	383K	681K	1.33M	2.55M	4.64M
1.43	2.70	4.87	9.09	17.8	33.0	59.0	113	220	392	715	1.40K	2.67K	4.75K	8.87K	17.4K	32.4K	57.6K	110K	215K	390K	698K	1.37M	2.61M	4.70M
1.47	2.74	4.99	9.10	18.0	33.2	60.4	115	221	402	732	1.43K	2.70K	4.87K	9.09K	17.8K	33.0K	59.0K	113K	220K	392K	715K	1.40M	2.67M	4.75M
1.50	2.80	5.10	9.31	18.2	34.0	61.9	118	226	412	750	1.47K	2.74K	4.99K	9.10K	18.0K	33.2K	60.4K	115K	221K	402K	732K	1.43M	2.70M	4.87M
1.54	2.87	5.11	9.53	18.7	34.8	62.0	120	232	422	768	1.50K	2.80K	5.10K	9.31K	18.2K	34.0K	61.9K	118K	226K	412K	750K	1.47M	2.74M	4.99M
1.58	2.94	5.23	9.76	19.1	35.7	63.4	121	237	430	787	1.54K	2.87K	5.11K	9.53K	18.7K	34.8K	62.0K	120K	232K	422K	768K	1.50M	2.80M	5.11M
1.60	3.00	5.36	10.0	19.6	36.0	64.9	124	240	432	806	1.58K	2.94K	5.23K	9.76K	19.1K	35.7K	63.4K	121K	237K	430K	787K	1.54M	2.87M	5.23M
1.62	3.01	5.49	10.2	20.0	36.5	66.5	127	243	442	820	1.60K	3.00K	5.36K	10.0K	19.6K	36.0K	64.9K	124K	240K	432K	806K	1.58M	2.94M	5.36M
1.65	3.09	5.60	10.5	20.5	37.4	68.0	130	249	453	825	1.62K	3.01K	5.49K	10.2K	20.0K	36.5K	66.5K	127K	243K	442K	820K	1.60M	3.00M	5.49M
1.69	3.16	5.62	10.7	21.0	38.3	68.1	133	255	464	845	1.65K	3.09K	5.60K	10.5K	20.5K	37.4K	68.0K	130K	249K	453K	825K	1.62M	3.01M	10.0M
1.74	3.24	5.76	11.0	21.5	39.0	69.8	137	261	470	866	1.69K	3.16K	5.62K	10.7K	21.0K	38.3K	68.1K	133K	255K	464K	845K	1.65M	3.09M	
1.78	3.30	5.90	11.3	22.0	39.2	71.5	140	267	475	887	1.74K	3.24K	5.76K	11.0K	21.5K	39.0K	69.8K	137K	261K	470K	866K	1.69M	3.16M	
1.80	3.32	6.04	11.5	22.1	40.2	73.2	143	270	487	909	1.78K	3.30K	5.90K	11.3K	22.0K	39.2K	71.5K	140K	267K	475K	887K	1.74M	3.24M	
1.82	3.40	6.19	11.8	22.6	41.2	75.0	147	274	499	910	1.80K	3.32K	6.04K	11.5K	22.1K	40.2K	73.2K	143K	270K	487K	909K	1.78M	3.30M	
1.87	3.48	6.20	12.0	23.2	42.2	76.8	150	280	510	931	1.82K	3.40K	6.19K	11.8K	22.6K	41.2K	75.0K	147K	274K	499K	910K	1.80M	3.32M	
1.91	3.57	6.34	12.1	23.7	43.0	78.7	154	287	511	953	1.87K	3.48K	6.20K	12.0K	23.2K	42.2K	76.8K	150K	280K	510K	931K	1.82M	3.40M	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
1%, 0402, 1/16Watt	1.00 ~ 9.76	50	0.063	0.5	1.0	0.6	0.4	541-**(Value)**LCT-ND	.83	2.22	5.10	541-**(Value)**LTR-ND	10,000	5.00/M	CRCW0402xxxxFNED
1%, 0402, 1/16Watt	10.0 ~ 10.0M							541-**(Value)**LCT-ND	.83	2.22	5.10	541-**(Value)**LTR-ND	10,000	5.00/M	CRCW0402xxxxFKED

CRCW 1% 1/10W — 0603 Series

Resistor Values

1.00	1.96	3.60	6.49	12.4	24.0	43.2	80.6	158	294	523	976	1.91K	3.57K	6.34K	12.1K	23.7K	43.0K	78.7K	154K	287K	511K	953K	1.87M	3.48M	6.20M
1.02	2.00	3.65	6.65	12.7	24.3	44.2	82.0	160	300	536	1.00K	1.96K	3.60K	6.49K	12.4K	24.0K	43.2K	80.6K	158K	294K	523K	976K	1.91M	3.57M	6.34M
1.05	2.05	3.74	6.80	13.0	24.9	45.3	82.5	162	301	549	1.02K	2.00K	3.65K	6.65K	12.7K	24.3K	44.2K	82.0K	160K	300K	536K	1.00M	1.96M	3.60M	6.49M
1.07	2.10	3.83	6.81	13.3	25.5	46.4	84.5	165	309	560	1.05K	2.05K	3.74K	6.80K	13.0K	24.9K	45.3K	82.5K	162K	301K	549K	1.02M	2.00M	3.65M	6.65M
1.10	2.15	3.90	6.98	13.7	26.1	47.0	86.6	169	316	562	1.07K	2.10K	3.83K	6.81K	13.3K	25.5K	46.4K	84.5K	165K	309K	560K	1.05M	2.05M	3.74M	6.80M
1.13	2.20	3.92	7.15	14.0	26.7	47.5	88.7	174	324	576	1.10K	2.15K	3.90K	6.98K	13.7K	26.1K	47.0K	86.6K	169K	316K	562K	1.07M	2.10M	3.83M	6.81M
1.15	2.21	4.02	7.32	14.3	27.0	48.7	90.9	178	330	590	1.13K	2.20K	3.92K	7.15K	14.0K	26.7K	47.5K	88.7K	174K	324K	576K	1.10M	2.15M	3.90M	6.98M
1.18	2.26	4.12	7.50	14.7	27.4	49.9	91.0	180	332	604	1.15K	2.21K	4.02K	7.32K	14.3K	27.0K	48.7K	90.9K	178K	330K	590K	1.13M	2.20M	3.92M	7.15M
1.20	2.32	4.22	7.68	15.0	28.0	51.0	93.1	182	340	619	1.18K	2.26K	4.12K	7.50K	14.7K	27.4K	49.9K	91.0K	180K	332K	604K	1.15M	2.21M	4.02M	7.32M
1.21	2.37	4.30	7.87	15.4	28.7	51.1	95.3	187	348	620	1.20K	2.32K	4.22K	7.68K	15.0K	28.0K	51.0K	93.1K	182K	340K	619K	1.18M	2.26M	4.12M	7.50M
1.24	2.40	4.32	8.06	15.8	29.4	52.3	97.6	191	357	634	1.21K	2.37K	4.30K	7.87K	15.4K	28.7K	51.1K	95.3K	187K	348K	620K	1.20M	2.32M	4.22M	7.68M
1.27	2.43	4.42	8.20	16.0	30.0	53.6	100	196	360	649	1.24K	2.40K	4.32K	8.06K	15.8K	29.4K	52.3K	97.6K	191K	357K	634K	1.21M	2.37M	4.30M	7.87M
1.30	2.49	4.53	8.25	16.2	30.1	54.9	102	200	365	665	1.27K	2.43K	4.42K	8.20K	16.0K	30.0K	53.6K	100K	196K	360K	649K	1.24M	2.40M	4.32M	8.06M
1.33	2.55	4.64	8.45	16.5	30.9	56.0	105	205	374	680	1.30K	2.49K	4.53K	8.25K	16.2K	30.1K	54.9K	102K	200K	365K	665K	1.27M	2.43M	4.42M	8.20M
1.37	2.61	4.70	8.66	16.9	31.6	56.2	107	210	383	681	1.33K	2.55K	4.64K	8.45K	16.5K	30.9K	56.0K	105K	205K	374K	680K	1.30M	2.49M	4.53M	8.25M
1.40	2.67	4.75	8.87	17.4	32.4	57.6	110	215	390	698	1.37K	2.61K	4.70K	8.66K	16.9K	31.6K	56.2K	107K	210K	383K	681K	1.33M	2.55M	4.64M	8.45M
1.43	2.70	4.87	9.09	17.8	33.0	59.0	113	220	392	715	1.40K	2.67K	4.75K	8.87K	17.4K	32.4K	57.6K	110K	215K	390K	698K	1.37M	2.61M	4.70M	8.66M
1.47	2.74	4.99	9.10	18.0	33.2	60.4	115	221	402	732	1.43K	2.70K	4.87K	9.09K	17.8K	33.0K	59.0K	113K	220K	392K	715K	1.40M	2.67M	4.75M	8.87M
1.50	2.80	5.10	9.31	18.2	34.0	61.9	118	226	412	750	1.47K	2.74K	4.99K	9.10K	18.0K	33.2K	60.4K	115K	221K	402K	732K	1.43M	2.70M	4.87M	9.09M
1.54	2.87	5.11	9.53	18.7	34.8	62.0	120	232	422	768	1.50K	2.80K	5.10K	9.31K	18.2K	34.0K	61.9K	118K	226K	412K	750K	1.47M	2.74M	4.99M	9.10M
1.58	2.94	5.23	9.76	19.1	35.7	63.4	121	237	430	787	1.54K	2.87K	5.11K	9.53K	18.7K	34.8K	62.0K	120K	232K	422K	768K	1.50M	2.80M	5.10M	9.31M
1.60	3.00	5.36	10.0	19.6	36.0	64.9	124	240	432	806	1.58K	2.94K	5.23K	9.76K	19.1K	35.7K	63.4K	121K	237K	430K	787K	1.54M	2.87M	5.11M	9.53M
1.62	3.01	5.49	10.2	20.0	36.5	66.5	127	243	442	820	1.60K	3.00K	5.36K	10.0K	19.6K	36.0K	64.9K	124K	240K	432K	806K	1.58M	2.94M	5.23M	9.76M
1.65	3.09	5.60	10.5	20.5	37.4	68.0	130	249	453	825	1.62K	3.01K	5.49K	10.2K	20.0K	36.5K	66.5K	127K	243K	442K	820K	1.60M	3.00M	5.36M	10.0M
1.69	3.16	5.62	10.7	21.0	38.3	68.1	133	255	464	845	1.65K	3.09K	5.60K	10.5K	20.5K	37.4K	68.0K	130K	249K	453K	825K	1.62M	3.01M	5.49M	
1.74	3.24	5.76	11.0	21.5	39.0	69.8	137	261	470	866	1.69K	3.16K	5.62K	10.7K	21.0K	38.3K	68.1K	133K	255K	464K	845K	1.65M	3.09M	5.60M	
1.78	3.30	5.90	11.3	22.0	39.2	71.5	140	267	475	887	1.74K	3.24K	5.76K	11.0K	21.5K	39.0K	69.8K	137K	261K	470K	866K	1.69M	3.16M	5.62M	
1.80	3.32	6.04	11.5	22.1	40.2	73.2	143	270	487	909	1.78K	3.30K	5.90K	11.3K	22.0K	39.2K	71.5K	140K	267K	475K	887K	1.74M	3.24M	5.76M	
1.82	3.40	6.19	11.8	22.6	41.2	75.0	147	274	499	910	1.80K	3.32K	6.04K	11.5K	22.1K	40.2K	73.2K	143K	270K	487K	909K	1.78M	3.30M	5.90M	
1.87	3.48	6.20	12.0	23.2	42.2	76.8	150	280	510	931	1.82K	3.40K	6.19K	11.8K	22.6K	41.2K	75.0K	147K	274K	499K	910K	1.80M	3.32M	6.04M	
1.91	3.57	6.34	12.1	23.7	43.0	78.7	154	287	511	953	1.87K	3.48K	6.20K	12.0K	23.2K	42.2K	76.8K	150K	280K	510K	931K	1.82M	3.40M	6.19M	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
1%, 0603, 1/10Watt	1.00 ~ 9.76	75	0.10	0.85	1.55	0.9	0.5	541-**(Value)**HCT-ND	.81	2.18	5.02	541-**(Value)**HTR-ND	5,000	6.00/M	CRCW0603xxxxFNEA
1%, 0603, 1/10Watt	10.0 ~ 10.0M							541-**(Value)**HCT-ND	.81	2.18	5.02	541-**(Value)**HTR-ND	5,000	6.00/M	CRCW0603xxxxFKEA

(Continued)

Surface Mount, 1% Thick-Film Chip Resistors

CRCW 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 *(Cont.)*

CRCW 1% 1/8W — 0805 Series

Resistor Values

1.00	1.96	3.60	6.49	12.4	24.0	43.2	80.6	158	294	523	976	1.91K	3.57K	6.34K	12.1K	23.7K	43.0K	78.7K	154K	287K	511K	953K	1.87M	3.48M	6.20M
1.02	2.00	3.65	6.65	12.7	24.3	44.2	82.0	160	300	536	1.00K	1.96K	3.60K	6.49K	12.4K	24.0K	43.2K	80.6K	158K	294K	523K	976K	1.91M	3.57M	6.34M
1.05	2.05	3.74	6.80	13.0	24.9	45.3	82.5	162	301	549	1.02K	2.00K	3.65K	6.65K	12.7K	24.3K	44.2K	82.0K	160K	300K	536K	1.00M	1.96M	3.60M	6.49M
1.07	2.10	3.83	6.81	13.3	25.5	46.4	84.5	165	309	560	1.05K	2.05K	3.74K	6.80K	13.0K	24.9K	45.3K	82.5K	162K	301K	549K	1.02M	2.00M	3.65M	6.65M
1.10	2.15	3.90	6.98	13.7	26.1	47.0	86.6	169	316	562	1.07K	2.10K	3.83K	6.81K	13.3K	25.5K	46.4K	84.5K	165K	309K	560K	1.05M	2.05M	3.74M	6.80M
1.13	2.20	3.92	7.15	14.0	26.7	47.5	88.7	174	324	576	1.10K	2.15K	3.90K	6.98K	13.7K	26.1K	47.0K	86.6K	169K	316K	562K	1.07M	2.10M	3.83M	6.81M
1.15	2.21	4.02	7.32	14.3	27.0	48.7	90.9	178	330	590	1.13K	2.20K	3.92K	7.15K	14.0K	26.7K	47.5K	88.7K	174K	324K	576K	1.10M	2.15M	3.90M	6.98M
1.18	2.26	4.12	7.50	14.7	27.4	49.9	91.0	180	332	604	1.15K	2.21K	4.02K	7.32K	14.3K	27.0K	48.7K	90.9K	178K	330K	590K	1.13M	2.20M	3.92M	7.15M
1.20	2.32	4.22	7.68	15.0	28.0	51.0	93.1	182	340	619	1.18K	2.26K	4.12K	7.50K	14.7K	27.4K	49.9K	91.0K	180K	332K	604K	1.15M	2.21M	4.02M	7.32M
1.21	2.37	4.30	7.87	15.4	28.7	51.1	95.3	187	348	620	1.20K	2.32K	4.22K	7.68K	15.0K	28.0K	51.0K	93.1K	182K	340K	619K	1.18M	2.26M	4.12M	7.50M
1.24	2.40	4.32	8.06	15.8	29.4	52.3	97.6	191	357	634	1.21K	2.37K	4.30K	7.87K	15.4K	28.7K	51.1K	95.3K	187K	348K	620K	1.20M	2.32M	4.22M	7.68M
1.27	2.43	4.42	8.20	16.0	30.0	53.6	100	196	360	649	1.24K	2.40K	4.32K	8.06K	15.8K	29.4K	52.3K	97.6K	191K	357K	634K	1.21M	2.37M	4.30M	7.87M
1.30	2.49	4.53	8.25	16.2	30.1	54.9	102	200	365	665	1.27K	2.43K	4.42K	8.20K	16.0K	30.0K	53.6K	100K	196K	360K	649K	1.24M	2.40M	4.32M	8.06M
1.33	2.55	4.64	8.45	16.5	30.9	56.0	105	205	374	680	1.30K	2.49K	4.53K	8.25K	16.2K	30.1K	54.9K	102K	200K	365K	665K	1.27M	2.43M	4.42M	8.20M
1.37	2.61	4.70	8.66	16.9	31.6	56.2	107	210	383	681	1.33K	2.55K	4.64K	8.45K	16.5K	30.9K	56.0K	105K	205K	374K	680K	1.30M	2.49M	4.53M	8.25M
1.40	2.67	4.75	8.87	17.4	32.4	57.6	110	215	390	698	1.37K	2.61K	4.70K	8.66K	16.9K	31.6K	56.2K	107K	210K	383K	681K	1.33M	2.55M	4.64M	8.45M
1.43	2.70	4.87	9.09	17.8	33.0	59.0	113	220	392	715	1.40K	2.67K	4.75K	8.87K	17.4K	32.4K	57.6K	110K	215K	390K	698K	1.37M	2.61M	4.70M	8.66M
1.47	2.74	4.99	9.10	18.0	33.2	60.4	115	221	402	732	1.43K	2.70K	4.87K	9.09K	17.8K	33.0K	59.0K	113K	220K	392K	715K	1.40M	2.67M	4.75M	8.87M
1.50	2.80	5.10	9.31	18.2	34.0	61.9	118	226	412	750	1.47K	2.74K	4.99K	9.10K	18.0K	33.2K	60.4K	115K	221K	402K	732K	1.43M	2.70M	4.87M	9.09M
1.54	2.87	5.11	9.53	18.7	34.8	62.0	120	232	422	768	1.50K	2.80K	5.10K	9.31K	18.2K	34.0K	61.9K	118K	226K	412K	750K	1.47M	2.74M	4.99M	9.10M
1.58	2.94	5.23	9.76	19.1	35.7	63.4	121	237	430	787	1.54K	2.87K	5.11K	9.53K	18.7K	34.8K	62.0K	120K	232K	422K	768K	1.50M	2.80M	5.10M	9.31M
1.60	3.00	5.36	10.0	19.6	36.0	64.9	124	240	432	806	1.58K	2.94K	5.23K	9.76K	19.1K	35.7K	63.4K	121K	237K	430K	787K	1.54M	2.87M	5.11M	9.53M
1.62	3.01	5.49	10.2	20.0	36.5	66.5	127	243	442	820	1.60K	3.00K	5.36K	10.0K	19.6K	36.0K	64.9K	124K	240K	432K	806K	1.58M	2.94M	5.23M	9.76M
1.65	3.09	5.60	10.5	20.5	37.4	68.0	130	249	453	825	1.62K	3.01K	5.49K	10.2K	20.0K	36.5K	66.5K	127K	243K	442K	820K	1.60M	3.00M	5.36M	10.0M
1.69	3.16	5.62	10.7	21.0	38.3	68.1	133	255	464	845	1.65K	3.09K	5.60K	10.5K	20.5K	37.4K	68.0K	130K	249K	453K	825K	1.62M	3.01M	5.49M	
1.74	3.24	5.76	11.0	21.5	39.0	69.8	137	261	470	866	1.69K	3.16K	5.62K	10.7K	21.0K	38.3K	68.1K	133K	255K	464K	845K	1.65M	3.09M	5.60M	
1.78	3.30	5.90	11.3	22.0	39.2	71.5	140	267	475	887	1.74K	3.24K	5.76K	11.0K	21.5K	39.0K	69.8K	137K	261K	470K	866K	1.69M	3.16M	5.62M	
1.80	3.32	6.04	11.5	22.1	40.2	73.2	143	270	487	909	1.78K	3.30K	5.90K	11.3K	22.0K	39.2K	71.5K	140K	267K	475K	887K	1.74M	3.24M	5.76M	
1.82	3.40	6.19	11.8	22.6	41.2	75.0	147	274	499	910	1.80K	3.32K	6.04K	11.5K	22.1K	40.2K	73.2K	143K	270K	487K	909K	1.78M	3.30M	5.90M	
1.87	3.48	6.20	12.0	23.2	42.2	76.8	150	280	510	931	1.82K	3.40K	6.19K	11.8K	22.6K	41.2K	75.0K	147K	274K	499K	910K	1.80M	3.32M	6.04M	
1.91	3.57	6.34	12.1	23.7	43.0	78.7	154	287	511	953	1.87K	3.48K	6.20K	12.0K	23.2K	42.2K	76.8K	150K	280K	510K	931K	1.82M	3.40M	6.19M	

	Value	Rated	Rated Power	Dimensions (mm)				Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		Vishay
Description	Range (Ω)	Voltage (V)	@ 70°C	W	L	T	tb	Part No.	10	50	200	Part No.	Qty.	Pricing	Part No.
1%, 0805, 1/8Watt	1.00 ~ 9.76	150	0.125	1.25	2.0	1.3	0.7	541-**(Value)**CCT-ND	.89	2.41	5.53	541-**(Value)**CTR-ND	5,000	8.00/M	CRCW0805xxxxFNEA
1%, 0805, 1/8Watt	10.0 ~ 10.0M							541-**(Value)**CCT-ND	.89	2.41	5.53	541-**(Value)**CTR-ND	5,000	8.00/M	CRCW0805xxxxFKEA

CRCW 1% 1/4W — 1206 Series

Resistor Values

1.00	1.96	3.60	6.49	12.4	24.0	43.2	80.6	158	294	523	976	1.91K	3.57K	6.34K	12.1K	23.7K	43.0K	78.7K	154K	287K	511K	953K	1.87M	3.48M	6.20M
1.02	2.00	3.65	6.65	12.7	24.3	44.2	82.0	160	300	536	1.00K	1.96K	3.60K	6.49K	12.4K	24.0K	43.2K	80.6K	158K	294K	523K	976K	1.91M	3.57M	6.34M
1.05	2.05	3.74	6.80	13.0	24.9	45.3	82.5	162	301	549	1.02K	2.00K	3.65K	6.65K	12.7K	24.3K	44.2K	82.0K	160K	300K	536K	1.00M	1.96M	3.60M	6.49M
1.07	2.10	3.83	6.81	13.3	25.5	46.4	84.5	165	309	560	1.05K	2.05K	3.74K	6.80K	13.0K	24.9K	45.3K	82.5K	162K	301K	549K	1.02M	2.00M	3.65M	6.65M
1.10	2.15	3.90	6.98	13.7	26.1	47.0	86.6	169	316	562	1.07K	2.10K	3.83K	6.81K	13.3K	25.5K	46.4K	84.5K	165K	309K	560K	1.05M	2.05M	3.74M	6.80M
1.13	2.20	3.92	7.15	14.0	26.7	47.5	88.7	174	324	576	1.10K	2.15K	3.90K	6.98K	13.7K	26.1K	47.0K	86.6K	169K	316K	562K	1.07M	2.10M	3.83M	6.81M
1.15	2.21	4.02	7.32	14.3	27.0	48.7	90.9	178	330	590	1.13K	2.20K	3.92K	7.15K	14.0K	26.7K	47.5K	88.7K	174K	324K	576K	1.10M	2.15M	3.90M	6.98M
1.18	2.26	4.12	7.50	14.7	27.4	49.9	91.0	180	332	604	1.15K	2.21K	4.02K	7.32K	14.3K	27.0K	48.7K	90.9K	178K	330K	590K	1.13M	2.20M	3.92M	7.15M
1.20	2.32	4.22	7.68	15.0	28.0	51.0	93.1	182	340	619	1.18K	2.26K	4.12K	7.50K	14.7K	27.4K	49.9K	91.0K	180K	332K	604K	1.15M	2.21M	4.02M	7.32M
1.21	2.37	4.30	7.87	15.4	28.7	51.1	95.3	187	348	620	1.20K	2.32K	4.22K	7.68K	15.0K	28.0K	51.0K	93.1K	182K	340K	619K	1.18M	2.26M	4.12M	7.50M
1.24	2.40	4.32	8.06	15.8	29.4	52.3	97.6	191	357	634	1.21K	2.37K	4.30K	7.87K	15.4K	28.7K	51.1K	95.3K	187K	348K	620K	1.20M	2.32M	4.22M	7.68M
1.27	2.43	4.42	8.20	16.0	30.0	53.6	100	196	360	649	1.24K	2.40K	4.32K	8.06K	15.8K	29.4K	52.3K	97.6K	191K	357K	634K	1.21M	2.37M	4.30M	7.87M
1.30	2.49	4.53	8.25	16.2	30.1	54.9	102	200	365	665	1.27K	2.43K	4.42K	8.20K	16.0K	30.0K	53.6K	100K	196K	360K	649K	1.24M	2.40M	4.32M	8.06M
1.33	2.55	4.64	8.45	16.5	30.9	56.0	105	205	374	680	1.30K	2.49K	4.53K	8.25K	16.2K	30.1K	54.9K	102K	200K	365K	665K	1.27M	2.43M	4.42M	8.20M
1.37	2.61	4.70	8.66	16.9	31.6	56.2	107	210	383	681	1.33K	2.55K	4.64K	8.45K	16.5K	30.9K	56.0K	105K	205K	374K	680K	1.30M	2.49M	4.53M	8.25M
1.40	2.67	4.75	8.87	17.4	32.4	57.6	110	215	390	698	1.37K	2.61K	4.70K	8.66K	16.9K	31.6K	56.2K	107K	210K	383K	681K	1.33M	2.55M	4.64M	8.45M
1.43	2.70	4.87	9.09	17.8	33.0	59.0	113	220	392	715	1.40K	2.67K	4.75K	8.87K	17.4K	32.4K	57.6K	110K	215K	390K	698K	1.37M	2.61M	4.70M	8.66M
1.47	2.74	4.99	9.10	18.0	33.2	60.4	115	221	402	732	1.43K	2.70K	4.87K	9.09K	17.8K	33.0K	59.0K	113K	220K	392K	715K	1.40M	2.67M	4.75M	8.87M
1.50	2.80	5.10	9.31	18.2	34.0	61.9	118	226	412	750	1.47K	2.74K	4.99K	9.10K	18.0K	33.2K	60.4K	115K	221K	402K	732K	1.43M	2.70M	4.87M	9.09M
1.54	2.87	5.11	9.53	18.7	34.8	62.0	120	232	422	768	1.50K	2.80K	5.10K	9.31K	18.2K	34.0K	61.9K	118K	226K	412K	750K	1.47M	2.74M	4.99M	9.10M
1.58	2.94	5.23	9.76	19.1	35.7	63.4	121	237	430	787	1.54K	2.87K	5.11K	9.53K	18.7K	34.8K	62.0K	120K	232K	422K	768K	1.50M	2.80M	5.10M	9.31M
1.60	3.00	5.36	10.0	19.6	36.0	64.9	124	240	432	806	1.58K	2.94K	5.23K	9.76K	19.1K	35.7K	63.4K	121K	237K	430K	787K	1.54M	2.87M	5.11M	9.53M
1.62	3.01	5.49	10.2	20.0	36.5	66.5	127	243	442	820	1.60K	3.00K	5.36K	10.0K	19.6K	36.0K	64.9K	124K	240K	432K	806K	1.58M	2.94M	5.23M	9.76M
1.65	3.09	5.60	10.5	20.5	37.4	68.0	130	249	453	825	1.62K	3.01K	5.49K	10.2K	20.0K	36.5K	66.5K	127K	243K	442K	820K	1.60M	3.00M	5.36M	10.0M
1.69	3.16	5.62	10.7	21.0	38.3	68.1	133	255	464	845	1.65K	3.09K	5.60K	10.5K	20.5K	37.4K	68.0K	130K	249K	453K	825K	1.62M	3.01M	5.49M	
1.74	3.24	5.76	11.0	21.5	39.0	69.8	137	261	470	866	1.69K	3.16K	5.62K	10.7K	21.0K	38.3K	68.1K	133K	255K	464K	845K	1.65M	3.09M	5.60M	
1.78	3.30	5.90	11.3	22.0	39.2	71.5	140	267	475	887	1.74K	3.24K	5.76K	11.0K	21.5K	39.0K	69.8K	137K	261K	470K	866K	1.69M	3.16M	5.62M	
1.80	3.32	6.04	11.5	22.1	40.2	73.2	143	270	487	909	1.78K	3.30K	5.90K	11.3K	22.0K	39.2K	71.5K	140K	267K	475K	887K	1.74M	3.24M	5.76M	
1.82	3.40	6.19	11.8	22.6	41.2	75.0	147	274	499	910	1.80K	3.32K	6.04K	11.5K	22.1K	40.2K	73.2K	143K	270K	487K	909K	1.78M	3.30M	5.90M	
1.87	3.48	6.20	12.0	23.2	42.2	76.8	150	280	510	931	1.82K	3.40K	6.19K	11.8K	22.6K	41.2K	75.0K	147K	274K	499K	910K	1.80M	3.32M	6.04M	
1.91	3.57	6.34	12.1	23.7	43.0	78.7	154	287	511	953	1.87K	3.48K	6.20K	12.0K	23.2K	42.2K	76.8K	150K	280K	510K	931K	1.82M	3.40M	6.19M	

	Value	Rated	Rated Power	Dimensions (mm)				Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		Vishay
Description	Range (Ω)	Voltage (V)	@ 70°C	W	L	T	tb	Part No.	10	50	200	Part No.	Qty.	Pricing	Part No.
1%, 1206, 1/4Watt	1.00 ~ 9.76	200	0.25	1.6	3.2	1.7	0.9	541-**(Value)**FCT-ND	1.02	2.74	6.29	541-**(Value)**FTR-ND	5,000	10.00/M	CRCW1206xxxxFNEA
1%, 1206, 1/4Watt	10.0 ~ 10.0M							541-**(Value)**FCT-ND	1.02	2.74	6.29	541-**(Value)**FTR-ND	5,000	10.00/M	CRCW1206xxxxFKEA

CRCW 1% 1/3W — 1210 Series

Resistor Values

1.00	16.2	27.4	46.4	75.0	127	215	365	590	1.00K	1.69K	2.87K	4.87K	7.87K	13.3K	22.6K	38.3K	61.9K	105K	178K	301K	499K	825K
10.0	16.9	28.7	48.7	78.7	133	226	383	619	1.05K	1.78K	3.01K	4.99K	8.25K	14.0K	23.7K	40.2K	64.9K	110K	187K	316K	511K	866K
10.5	17.8	30.1	49.9	82.5	140	237	402	649	1.10K	1.87K	3.16K	5.11K	8.66K	14.7K	24.9K	42.2K	68.1K	115K	196K	332K	536K	909K
11.0	18.7	31.6	51.1	86.6	147	249	422	681	1.15K	1.96K	3.32K	5.36K	9.09K	15.4K	26.1K	44.2K	71.5K	121K	205K	348K	562K	953K
11.5	19.6	33.2	53.6	90.9	154	261	442	715	1.21K	2.05K	3.48K	5.62K	9.53K	16.2K	27.4K	46.4K	75.0K	127K	215K	365K	590K	1.0M
12.1	20.5	34.8	56.2	95.3	162	274	464	750	1.27K	2.15K	3.65K	5.90K	10.0K	16.9K	28.7K	48.7K	78.7K	133K	226K	383K	619K	
12.7	21.5	36.5	59.0	100	169	287	487	787	1.33K	2.26K	3.83K	6.19K	10.5K	17.8K	30.1K	49.9K	82.5K	140K	237K	402K	649K	
13.3	22.6	38.3	61.9	105	178	301	499	825	1.40K	2.37K	4.02K	6.49K	11.0K	18.7K	31.6K	51.1K	86.6K	147K	249K	422K	681K	
14.0	23.7	40.2	64.9	110	187	316	511	866	1.47K	2.49K	4.22K	6.81K	11.5K	19.6K	33.2K	53.6K	90.9K	154K	261K	442K	715K	
14.7	24.9	42.2	68.1	115	196	332	536	909	1.54K	2.61K	4.42K	7.15K	12.1K	20.5K	34.8K	56.2K	95.3K	162K	274K	464K	750K	
15.4	26.1	44.2	71.5	121	205	348	562	953	1.62K	2.74K	4.64K	7.50K	12.7K	21.5K	36.5K	59.0K	100K	169K	287K	487K	787K	

	Value	Rated	Rated Power	Dimensions (mm)				Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		Vishay
Description	Range (Ω)	Voltage (V)	@ 70°C	W	L	T	tb	Part No.	10	50	200	Part No.	Qty.	Pricing	Part No.
1%, 1210, 1/3Watt	1.00	200	0.33	2.5	3.2	2.5	0.9	541-**(Value)**AACT-ND	2.89	7.77	17.85	541-**(Value)**AATR-ND	5,000	51.00/M	CRCW1210xxxxFNEA
1%, 1210, 1/3Watt	10.0 ~ 1.0M							541-**(Value)**AACT-ND	2.89	7.77	17.85	541-**(Value)**AATR-ND	5,000	51.00/M	CRCW1210xxxxFKEA

(Continued)

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount, 1% Thick-Film Chip Resistors

CRCW 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 *(Cont.)*

CRCW 1% 1/2W — 2010 Series

Resistor Values

1.00	15.4	24.9	40.2	61.9	100	162	261	422	649	1.05K	1.69K	2.74K	4.42K	6.81K	11.0K	17.8K	28.7K	46.4K	71.5K	115K	187K	301K	487K	750K
10.0	16.2	26.1	42.2	64.9	105	169	274	442	681	1.10K	1.78K	2.87K	4.64K	7.15K	11.5K	18.7K	30.1K	48.7K	75.0K	121K	196K	316K	499K	787K
10.5	16.9	27.4	44.2	68.1	110	178	287	464	715	1.15K	1.87K	3.01K	4.87K	7.50K	12.1K	19.6K	31.6K	49.9K	78.7K	127K	205K	332K	511K	825K
11.0	17.8	28.7	46.4	71.5	115	187	301	487	750	1.21K	1.96K	3.16K	4.99K	7.87K	12.7K	20.5K	33.2K	51.1K	82.5K	133K	215K	348K	536K	866K
11.5	18.7	30.1	48.7	75.0	121	196	316	499	787	1.27K	2.05K	3.32K	5.11K	8.25K	13.3K	21.5K	34.8K	53.6K	86.6K	140K	226K	365K	562K	909K
12.1	19.6	31.6	49.9	78.7	127	205	332	511	825	1.33K	2.15K	3.48K	5.36K	8.66K	14.0K	22.6K	36.5K	56.2K	90.9K	147K	237K	383K	590K	953K
12.7	20.5	33.2	51.1	82.5	133	215	348	536	866	1.40K	2.26K	3.65K	5.62K	9.09K	14.7K	23.7K	38.3K	59.0K	95.3K	154K	249K	402K	619K	1.0M
13.3	21.5	34.8	53.6	86.6	140	226	365	562	909	1.47K	2.37K	3.83K	5.90K	9.53K	15.4K	24.9K	40.2K	61.9K	100K	162K	261K	422K	649K	
14.0	22.6	36.5	56.2	90.9	147	237	383	590	953	1.54K	2.49K	4.02K	6.19K	10.0K	16.2K	26.1K	42.2K	64.9K	105K	169K	274K	442K	681K	
14.7	23.7	38.3	59.0	95.3	154	249	402	619	1.00K	1.62K	2.61K	4.22K	6.49K	10.5K	16.9K	27.4K	44.2K	68.1K	110K	178K	287K	464K	715K	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
1%, 2010, 1/2Watt	1.00	400	0.5	2.5	5.0	2.5	1.0	541-**(Value)**ACCT-ND	3.30	8.88	20.40	541-**(Value)**ACTR-ND	4,000	60.00/M	CRCW2010xxxxFNEF
1%, 2010, 1/2Watt	10.0 ~ 1.0M							541-**(Value)**ACCT-ND	3.30	8.88	20.40	541-**(Value)**ACTR-ND	4,000	60.00/M	CRCW2010xxxxFKEF

CRCW 1% 1W — 2512 Series

Resistor Values

1.00	15.4	24.9	40.2	61.9	100	162	261	422	649	1.05K	1.69K	2.74K	4.42K	6.81K	11.0K	17.8K	28.7K	46.4K	71.5K	115K	187K	301K	487K	750K
10.0	16.2	26.1	42.2	64.9	105	169	274	442	681	1.10K	1.78K	2.87K	4.64K	7.15K	11.5K	18.7K	30.1K	48.7K	75.0K	121K	196K	316K	499K	787K
10.5	16.9	27.4	44.2	68.1	110	178	287	464	715	1.15K	1.87K	3.01K	4.87K	7.50K	12.1K	19.6K	31.6K	49.9K	78.7K	127K	205K	332K	511K	825K
11.0	17.8	28.7	46.4	71.5	115	187	301	487	750	1.21K	1.96K	3.16K	4.99K	7.87K	12.7K	20.5K	33.2K	51.1K	82.5K	133K	215K	348K	536K	866K
11.5	18.7	30.1	48.7	75.0	121	196	316	499	787	1.27K	2.05K	3.32K	5.11K	8.25K	13.3K	21.5K	34.8K	53.6K	86.6K	140K	226K	365K	562K	909K
12.1	19.6	31.6	49.9	78.7	127	205	332	511	825	1.33K	2.15K	3.48K	5.36K	8.66K	14.0K	22.6K	36.5K	56.2K	90.9K	147K	237K	383K	590K	953K
12.7	20.5	33.2	51.1	82.5	133	215	348	536	866	1.40K	2.26K	3.65K	5.62K	9.09K	14.7K	23.7K	38.3K	59.0K	95.3K	154K	249K	402K	619K	1.0M
13.3	21.5	34.8	53.6	86.6	140	226	365	562	909	1.47K	2.37K	3.83K	5.90K	9.53K	15.4K	24.9K	40.2K	61.9K	100K	162K	261K	422K	649K	
14.0	22.6	36.5	56.2	90.9	147	237	383	590	953	1.54K	2.49K	4.02K	6.19K	10.0K	16.2K	26.1K	42.2K	64.9K	105K	169K	274K	442K	681K	
14.7	23.7	38.3	59.0	95.3	154	249	402	619	1.00K	1.62K	2.61K	4.22K	6.49K	10.5K	16.9K	27.4K	44.2K	68.1K	110K	178K	287K	464K	715K	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
1%, 2512, 1Watt	1.00	500	1.0	3.15	6.3	3.2	1.0	541-**(Value)**AFCT-ND	3.99	10.73	24.65	541-**(Value)**AFTR-ND	2,000	75.00/M	CRCW2512xxxxFNEG
1%, 2512, 1Watt	10.0 ~ 1.0M							541-**(Value)**AFCT-ND	3.99	10.73	24.65	541-**(Value)**AFTR-ND	2,000	75.00/M	CRCW2512xxxxFKEG

Surface Mount, 5% Thick-Film Chip Resistors

CRCW 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512

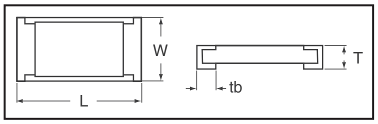

TEMPERATURE COEFFICIENT (ppm/K)																
Size Code	0201		0402		0603		0805		1206		1210		2010		2512	
Resistance Range (Ω)	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%
1 ~ 9.76	—	—	±200	—	±200	—	±200	—	±200	—	±200	—	±200	—	±200	—
1 ~ 10M	—	—	—	±200	—	±200	—	±200	—	±200	—	±200	—	±200	—	±200
10 ~ 1M	±200	±200	—	—	—	—	—	—	—	—	±100	—	±100	—	±100	—
10 ~ 10M	—	—	±100	—	±100	—	±100	—	±100	—	—	—	—	—	—	—

CRCW 5% 1/20W — 0201 Series

Resistor Values

0.0	22	47	68	82	220	470	680	1.0K	3.3K	5.6K	8.2K	22K	47K	68K	100K	330K	560K	820K
10	33	56	75	100	330	560	820	2.2K	4.7K	6.8K	10K	33K	56K	82K	220K	470K	680K	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
5%, 0201, 1/20Watt – 0Ω Jumper	0.0	30	0.05	0.3	0.6	0.43	0.28	541-**(Value)**AGCT-ND	1.91	5.14	11.82	541-**(Value)**AGTR-ND	10,000	27.00/M	CRCW0201xxxxZ0ED
5%, 0201, 1/20Watt	10 ~ 820K							541-**(Value)**AGCT-ND	1.91	5.14	11.82	541-**(Value)**AGTR-ND	10,000	27.00/M	CRCW0201xxxxJNED

CRCW 5% 1/16W — 0402 Series

Resistor Values

0.0	1.8	3.6	6.8	13	27	51	100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K	330K	620K	1.2M	2.4M	4.7M	9.1M
1.0	2.0	3.9	7.5	15	30	56	110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K	360K	680K	1.3M	2.7M	5.1M	10M
1.1	2.2	4.3	8.2	16	33	62	120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K	390K	750K	1.5M	3.0M	5.6M	
1.2	2.4	4.7	9.1	18	36	68	130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	220K	430K	820K	1.6M	3.3M	6.2M	
1.3	2.7	5.1	10	20	39	75	150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	240K	470K	910K	1.8M	3.6M	6.8M	
1.5	3.0	5.6	11	22	43	82	160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	270K	510K	1.0M	2.0M	3.9M	7.5M	
1.6	3.3	6.2	12	24	47	91	180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	300K	560K	1.1M	2.2M	4.3M	8.2M	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
5%, 0402, 1/16Watt – 0Ω Jumper	0.0	50	0.063	0.5	1.0	0.6	0.4	541-**(Value)**JCT-ND	.74	2.00	4.59	541-**(Value)**JTR-ND	10,000	4.00/M	CRCW0402xxxxZ0ED
5%, 0402, 1/16Watt	1.0 ~ 10M							541-**(Value)**JCT-ND	.74	2.00	4.59	541-**(Value)**JTR-ND	10,000	4.00/M	CRCW0402xxxxJNED

CRCW 5% 1/10W — 0603 Series

Resistor Values

0.0	1.8	3.6	6.8	13	27	51	100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K	330K	620K	1.2M	2.4M	4.7M	9.1M
1.0	2.0	3.9	7.5	15	30	56	110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K	360K	680K	1.3M	2.7M	5.1M	10M
1.1	2.2	4.3	8.2	16	33	62	120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K	390K	750K	1.5M	3.0M	5.6M	
1.2	2.4	4.7	9.1	18	36	68	130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	220K	430K	820K	1.6M	3.3M	6.2M	
1.3	2.7	5.1	10	20	39	75	150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	240K	470K	910K	1.8M	3.6M	6.8M	
1.5	3.0	5.6	11	22	43	82	160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	270K	510K	1.0M	2.0M	3.9M	7.5M	
1.6	3.3	6.2	12	24	47	91	180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	300K	560K	1.1M	2.2M	4.3M	8.2M	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
5%, 0603, 1/10Watt, – 0Ω Jumper	0.0	75	0.10	0.85	1.55	0.9	0.5	541-**(Value)**GCT-ND	.74	2.00	4.59	541-**(Value)**GTR-ND	5,000	4.00/M	CRCW0603xxxxZ0EA
5%, 0603, 1/10Watt	1.0 ~ 10M							541-**(Value)**GCT-ND	.74	2.00	4.59	541-**(Value)**GTR-ND	5,000	4.00/M	CRCW0603xxxxJNEA

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Surface Mount, 5% Thick-Film Chip Resistors

CRCW 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 *(Cont.)*

CRCW 5% 1/8W — 0805 Series

Resistor Values

0.0	2.2	5.1	12	30	68	160	390	910	2.2K	5.1K	12K	30K	68K	160K	390K	910K	2.2M	5.1M
1.0	2.4	5.6	13	33	75	180	430	1.0K	2.4K	5.6K	13K	33K	75K	180K	430K	1.0M	2.4M	5.6M
1.1	2.7	6.2	15	36	82	200	470	1.1K	2.7K	6.2K	15K	36K	82K	200K	470K	1.1M	2.7M	6.2M
1.2	3.0	6.8	16	39	91	220	510	1.2K	3.0K	6.8K	16K	39K	91K	220K	510K	1.2M	3.0M	6.8M
1.3	3.3	7.5	18	43	100	240	560	1.3K	3.3K	7.5K	18K	43K	100K	240K	560K	1.3M	3.3M	7.5M
1.5	3.6	8.2	20	47	110	270	620	1.5K	3.6K	8.2K	20K	47K	110K	270K	620K	1.5M	3.6M	8.2M
1.6	3.9	9.1	22	51	120	300	680	1.6K	3.9K	9.1K	22K	51K	120K	300K	680K	1.6M	3.9M	9.1M
1.8	4.3	10	24	56	130	330	750	1.8K	4.3K	10K	24K	56K	130K	330K	750K	1.8M	4.3M	10M
2.0	4.7	11	27	62	150	360	820	2.0K	4.7K	11K	27K	62K	150K	360K	820K	2.0M	4.7M	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
5%, 0805, 1/8Watt, – 0Ω Jumper	0.0	150	0.125	1.25	2.0	1.3	0.7	541-**(Value)**ACT-ND	.77	2.07	4.76	541-**(Value)**ATR-ND	5,000	5.00/M	CRCW0805xxxxZ0EA
5%, 0805, 1/8Watt	1.0 ~ 10M							541-**(Value)**ACT-ND	.77	2.07	4.76	541-**(Value)**ATR-ND	5,000	5.00/M	CRCW0805xxxxJNEA

CRCW 5% 1/4W — 1206 Series

Resistor Values

0.0	2.2	5.1	12	30	68	160	390	910	2.2K	5.1K	12K	30K	68K	160K	390K	910K	2.2M	5.1M
1.0	2.4	5.6	13	33	75	180	430	1.0K	2.4K	5.6K	13K	33K	75K	180K	430K	1.0M	2.4M	5.6M
1.1	2.7	6.2	15	36	82	200	470	1.1K	2.7K	6.2K	15K	36K	82K	200K	470K	1.1M	2.7M	6.2M
1.2	3.0	6.8	16	39	91	220	510	1.2K	3.0K	6.8K	16K	39K	91K	220K	510K	1.2M	3.0M	6.8M
1.3	3.3	7.5	18	43	100	240	560	1.3K	3.3K	7.5K	18K	43K	100K	240K	560K	1.3M	3.3M	7.5M
1.5	3.6	8.2	20	47	110	270	620	1.5K	3.6K	8.2K	20K	47K	110K	270K	620K	1.5M	3.6M	8.2M
1.6	3.9	9.1	22	51	120	300	680	1.6K	3.9K	9.1K	22K	51K	120K	300K	680K	1.6M	3.9M	9.1M
1.8	4.3	10	24	56	130	330	750	1.8K	4.3K	10K	24K	56K	130K	330K	750K	1.8M	4.3M	10M
2.0	4.7	11	27	62	150	360	820	2.0K	4.7K	11K	27K	62K	150K	360K	820K	2.0M	4.7M	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
5%, 1206, 1/4Watt, – 0Ω Jumper	0.0	200	0.25	1.6	3.2	1.7	0.9	541-**(Value)**ECT-ND	.94	2.53	5.82	541-**(Value)**ETR-ND	5,000	9.00/M	CRCW1206xxxxZ0EA
5%, 1206, 1/4Watt	1.0 ~ 10M							541-**(Value)**ECT-ND	.94	2.53	5.82	541-**(Value)**ETR-ND	5,000	9.00/M	CRCW1206xxxxJNEA

CRCW 5% 1/3W — 1210 Series

Resistor Values

0.0	2.0	4.3	9.1	20	43	91	200	430	910	2.0K	4.3K	9.1K	20K	43K	91K	200K	430K	910K
1.0	2.2	4.7	10	22	47	100	220	470	1.0K	2.2K	4.7K	10K	22K	47K	100K	220K	470K	1.0M
1.1	2.4	5.1	11	24	51	110	240	510	1.1K	2.4K	5.1K	11K	24K	51K	110K	240K	510K	10M
1.2	2.7	5.6	12	27	56	120	270	560	1.2K	2.7K	5.6K	12K	27K	56K	120K	270K	560K	
1.3	3.0	6.2	13	30	62	130	300	620	1.3K	3.0K	6.2K	13K	30K	62K	130K	300K	620K	
1.5	3.3	6.8	15	33	68	150	330	680	1.5K	3.3K	6.8K	15K	33K	68K	150K	330K	680K	
1.6	3.6	7.5	16	36	75	160	360	750	1.6K	3.6K	7.5K	16K	36K	75K	160K	360K	750K	
1.8	3.9	8.2	18	39	82	180	390	820	1.8K	3.9K	8.2K	18K	39K	82K	180K	390K	820K	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
5%, 1210, 1/3Watt – 0Ω Jumper	0.0	200	0.33	2.5	3.2	2.5	0.9	541-**(Value)**VCT-ND	2.61	7.03	16.15	541-**(Value)**VTR-ND	5,000	45.00/M	CRCW1210xxxxZ0EA
5%, 1210, 1/3Watt	1.0 ~ 10M							541-**(Value)**VCT-ND	2.61	7.03	16.15	541-**(Value)**VTR-ND	5,000	45.00/M	CRCW1210xxxxJNEA

CRCW 5% 1/2W — 2010 Series

Resistor Values

0.0	2.0	4.3	9.1	20.0	43.0	91.0	200	430	910	2.0K	4.3K	9.1K	20K	43K	91K	200K	430K	910K
1.0	2.2	4.7	10.0	22.0	47.0	100	220	470	1.0K	2.2K	4.7K	10K	22K	47K	100K	220K	470K	1.0M
1.1	2.4	5.1	11.0	24.0	51.0	110	240	510	1.1K	2.4K	5.1K	11K	24K	51K	110K	240K	510K	10M
1.2	2.7	5.6	12.0	27.0	56.0	120	270	560	1.2K	2.7K	5.6K	12K	27K	56K	120K	270K	560K	
1.3	3.0	6.2	13.0	30.0	62.0	130	300	620	1.3K	3.0K	6.2K	13K	30K	62K	130K	300K	620K	
1.5	3.3	6.8	15.0	33.0	68.0	150	330	680	1.5K	3.3K	6.8K	15K	33K	68K	150K	330K	680K	
1.6	3.6	7.5	16.0	36.0	75.0	160	360	750	1.6K	3.6K	7.5K	16K	36K	75K	160K	360K	750K	
1.8	3.9	8.2	18.0	39.0	82.0	180	390	820	1.8K	3.9K	8.2K	18K	39K	82K	180K	390K	820K	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
5%, 2010, 1/2Watt, – 0Ω Jumper	0.0	400	0.5	2.5	5.0	2.5	1.0	541-**(Value)**WCT-ND	3.30	8.88	20.40	541-**(Value)**WTR-ND	4,000	60.00/M	CRCW2010xxxxZ0EF
5%, 2010, 1/2Watt	1.0 ~ 10M							541-**(Value)**WCT-ND	3.30	8.88	20.40	541-**(Value)**WTR-ND	4,000	60.00/M	CRCW2010xxxxJNEF

CRCW 5% 1W — 2512 Series

Resistor Values

0.0	2.0	4.3	9.1	20	43	91	200	430	910	2.0K	4.3K	9.1K	20K	43K	91K	200K	430K	910K
1.0	2.2	4.7	10	22	47	100	220	470	1.0K	2.2K	4.7K	10K	22K	47K	100K	220K	470K	1.0M
1.1	2.4	5.1	11	24	51	110	240	510	1.1K	2.4K	5.1K	11K	24K	51K	110K	240K	510K	10M
1.2	2.7	5.6	12	27	56	120	270	560	1.2K	2.7K	5.6K	12K	27K	56K	120K	270K	560K	
1.3	3.0	6.2	13	30	62	130	300	620	1.3K	3.0K	6.2K	13K	30K	62K	130K	300K	620K	
1.5	3.3	6.8	15	33	68	150	330	680	1.5K	3.3K	6.8K	15K	33K	68K	150K	330K	680K	
1.6	3.6	7.5	16	36	75	160	360	750	1.6K	3.6K	7.5K	16K	36K	75K	160K	360K	750K	
1.8	3.9	8.2	18	39	82	180	390	820	1.8K	3.9K	8.2K	18K	39K	82K	180K	390K	820K	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Vishay Part No.
				W	L	T	tb		10	50	200		Qty.	Pricing	
5%, 2512, 1Watt, – 0Ω Jumper	0.0	500	1.0	3.15	6.3	3.2	1.0	541-**(Value)**XCT-ND	3.99	10.73	24.65	541-**(Value)**XTR-ND	2,000	75.00/M	CRCW2512xxxxZ0EG
5%, 2512, 1Watt	1.0 ~ 10M							541-**(Value)**XCT-ND	3.99	10.73	24.65	541-**(Value)**XTR-ND	2,000	75.00/M	CRCW2512xxxxJNEG

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

0201 / 0402 / 0603 / 0805 / 1206 Surface Mount 1% and 5% Thick Film Chip Resistors

RoHS Compliant Parts Available
(Parts other than indicated may be
available as RoHS compliant)

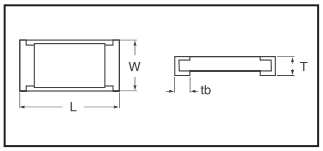

Size Code:	Temperature Coefficient (ppm/°C)									
	0201		0402		0603		0805		1206	
Resistance Range (Ω):	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%
1.0 ≤ R < 2.2	—	—	—	—	—	—	—	500±350	—	500±350
1.0 ≤ R < 10	—	—	—	+500/-250	—	—	±250	—	±250	—
1.0 ≤ R ≤ 10M	—	—	—	—	—	—	—	±200	—	±200
2.2 ≤ R < 10	—	—	—	—	—	±500	—	±500	—	±500
10 ≤ R ≤ 2.2M	—	—	±100	—	±100	—	±100	—	±100	—
10 ≤ R ≤ 10M	±250	±250	—	±200	—	±200	—	±200	—	±200

MCR006 1%, 1/20 Watt — 0201 Series Resistor Values – *RoHS Compliant*

10	22	33	51	82	165	510	976	1.5K	2.7K	3.9K	5.1K	7.5K	11.5K	22K	30K	44.2K	56K	91K	150K	240K	360K	510K	1.2M
12	24	39	56	100	200	680	1.0K	1.8K	2.87K	4.3K	5.6K	8.2K	12K	24K	30.1K	45.3K	68K	100K	162K	255K	402K	680K	1.5M
15	24.3	43	68	110	300	750	1.1K	2.0K	2.94K	4.7K	5.62K	8.25K	12.1K	24.9K	33.2K	47K	69.8K	120K	180K	280K	430K	750K	2.0M
18	25.5	47	73.2	130	430	820	1.2K	2.1K	3.0K	4.75K	6.2K	10K	15K	27.4K	40.2K	47.5K	80.6K	121K	220K	300K	470K	910K	2.2M
20	27	49.9	75	150	470	910	1.3K	2.2K	3.3K	4.99K	6.8K	11.3K	18K	29.4K	43.2K	51K	82.5K	140K	232K	324K	487K	1.0M	10M

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 15,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0201, 1/20 Watt	10 ~ 10M	25	0.05W	0.3	0.6	0.23	0.15	RHM(Value)ABCT-ND	1.18	3.18	7.31	RHM(Value)ABTR-ND	12.00/M	MCR006YZPFxxxx

MCR006 5%, 1/20 Watt — 0201 Series Resistor Values – *RoHS Compliant*

0.0	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	150K	270K	470K	820K	1.5M	2.7M	4.7M	8.2M
5.6	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K	160K	300K	510K	910K	1.6M	3.0M	5.1M	9.1M
10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K	180K	330K	560K	1.0M	1.8M	3.3M	5.6M	10M
11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	110K	200K	360K	620K	1.1M	2.0M	3.6M	6.2M	
12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	120K	220K	390K	680K	1.2M	2.2M	3.9M	6.8M	
13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	130K	240K	430K	750K	1.3M	2.4M	4.3M	7.5M	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 15,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0201, 1/20 Watt	0.0 ~ 10M	25	0.05W	0.3	0.6	0.23	0.15	RHM(Value)AGCT-ND	1.02	2.76	6.33	RHM(Value)AGTR-ND	9.00/M	MCR006YZPJxxxx

MCR01 1%, 1/16 Watt — 0402 Series Resistor Values

1.00◆	33.0◆	68.0◆	180◆	430◆	620◆	1.21K◆	2.40K◆	4.30K◆	6.49K◆	9.10K◆	12.0K◆	17.4K◆	24.9K◆	35.7K	45.3K	53.6K	78.7K	95.3K	127K◆	226K◆	332K◆	560K◆
4.70◆	36.0◆	68.1	220◆	464	680◆	1.50K◆	2.70K◆	4.64K◆	6.80K◆	9.53K◆	12.1K◆	18.0K◆	26.1K◆	36.0K◆	46.4K	56.0K◆	80.6K◆	97.6K◆	150K◆	240K◆	360K◆	562K
10.0◆	39.0◆	75.0◆	280◆	470◆	715	1.80K◆	3.01K◆	5.10K◆	7.50K◆	10.0K◆	13.0K◆	19.1K◆	27.0K◆	39.0K◆	47.0K◆	60.4K◆	82.0K◆	100K◆	180K◆	249K◆	430K◆	620K◆
22.0◆	49.9◆	100◆	300◆	499◆	910◆	1.82K◆	3.30K◆	5.36K	7.87K	10.7K	14.0K◆	20.0K◆	28.0K	39.2K◆	47.5K◆	61.9K	82.5K◆	110K◆	187K	261K	442K◆	649K◆
24.9◆	51.0◆	120◆	301◆	510◆	1.00K◆	1.96K◆	3.74K◆	5.49K◆	8.06K◆	11.0K◆	15.0K◆	21.0K◆	30.0K◆	40.2K◆	49.9K◆	62.0K◆	88.7K	120K◆	200K◆	270K◆	470K◆	768K
26.1	56.0◆	150◆	330◆	511◆	1.10K◆	2.20K◆	3.90K◆	5.62K◆	8.20K◆	11.3K◆	16.0K◆	22.0K◆	30.1K◆	42.2K	51.0K◆	64.9K	90.9K	121K◆	210K	300K◆	499K◆	1.00M◆
28.0◆	62.0◆	160	332◆	560◆	1.20K◆	2.21K◆	3.92K◆	6.20K◆	8.87K	11.5K◆	16.2K◆	22.1K◆	33.0K◆	43.0K◆	51.1K◆	68.0K◆	91.0K◆	124K◆	220K◆	301K◆	510K◆	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0402, 1/16 Watt	1.00 ~ 4.70	50	0.063W	0.5	1.0	0.35	0.25	RHM(Value)LCT-ND	.82	2.21	5.07	RHM(Value)LTR-ND	5.30/M	MCR01MZPFLxxxx
1%, 0402, 1/16 Watt	10.0 ~ 1.00M	50	0.063W	0.5	1.0	0.35	0.25	RHM(Value)LCT-ND	.82	2.21	5.07	RHM(Value)LTR-ND	5.30/M	MCR01MZPFxxxx

◆ ***RoHS Compliant***

MCR01 5%, 1/16 Watt — 0402 Series Resistor Values

0.0◆	3.0◆	5.1◆	15◆	30◆	47◆	82◆	180◆	300◆	470◆	820◆	1.8K◆	3.0K◆	4.7K◆	7.5K◆	15K◆	30K◆	56K◆	110K	220K◆	470K◆	3.0M◆
1.0◆	3.3◆	5.6◆	18◆	33◆	51◆	91	200◆	330◆	510◆	910◆	2.0K◆	3.3K◆	5.1K◆	8.2K◆	18K◆	33K◆	62K	120K◆	270K◆	560K	3.3M
1.1	3.9	8.2	20◆	36◆	56◆	100◆	220◆	360◆	560◆	1.0K◆	2.2K◆	3.6K	5.6K◆	10K◆	22K◆	39K◆	68K◆	150K◆	300K	680K	
2.0◆	4.3	10◆	22◆	39◆	68◆	150◆	240◆	390◆	620	1.2K◆	2.4K◆	3.9K◆	6.2K	11K	24K◆	43K	82K◆	180K◆	330K◆	1.0M◆	
2.2◆	4.7◆	12◆	27◆	43	75◆	160◆	270◆	430	680◆	1.5K◆	2.7K◆	4.3K	6.8K◆	12K◆	27K◆	47K◆	100K◆	200K◆	430K	1.5M◆	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0402, 1/16 Watt	0.0 ~ 3.3M	50	0.063W	0.5	1.0	0.35	0.25	RHM(Value)JCT-ND	.74	1.99	4.57	RHM(Value)JTR-ND	3.73/M	MCR01MZPJxxxx

◆ ***RoHS Compliant***

MCR03 1%, 1/10 Watt — 0603 Series Resistor Values

10.0◆	17.4◆	28.7	46.4	75.0◆	130◆	221◆	360◆	576◆	953◆	1.65K◆	2.74K◆	4.42K◆	7.15K◆	12.1K◆	21.0K◆	34.0K◆	54.9K◆	91.0K◆	160K◆	267K◆	430K◆	681K◆
10.2	17.8◆	29.4	47.0◆	76.8	133◆	226◆	365◆	590◆	976◆	1.69K◆	2.80K◆	4.53K◆	7.32K◆	12.4K◆	21.5K◆	34.8K◆	56.2K◆	93.1K◆	162K◆	270K◆	432K◆	698K◆
10.5	18.0◆	30.0◆	47.5◆	78.7◆	137◆	232◆	374◆	604◆	1.00K◆	1.74K◆	2.87K◆	4.64K◆	7.50K◆	12.7K◆	22.0K◆	35.7K◆	57.6K◆	95.3K◆	165K◆	274K◆	442K◆	715K◆
10.7	18.2◆	30.1◆	48.7◆	80.6	140◆	237◆	383◆	619◆	1.02K◆	1.78K◆	2.94K◆	4.70K◆	7.68K◆	13.0K◆	22.1K◆	36.0K◆	59.0K◆	97.6K◆	169K◆	280K◆	453K◆	732K
11.0◆	18.7	30.9	49.9◆	82.0◆	143◆	240◆	390◆	620◆	1.05K◆	1.80K◆	3.00K◆	4.75K◆	7.87K◆	13.3K◆	22.6K◆	36.5K◆	60.4K◆	100K◆	174K◆	287K◆	464K	750K
11.3	19.1	31.6◆	51.0◆	82.5◆	147	243◆	392◆	634◆	1.07K◆	1.82K◆	3.01K◆	4.87K◆	8.06K◆	13.7K◆	23.2K◆	37.4K◆	61.9K◆	102K◆	178K◆	294K◆	470K◆	768K
11.5	19.6	32.4	51.1◆	84.5◆	150◆	249◆	402◆	649◆	1.10K◆	1.87K◆	3.09K◆	4.99K◆	8.20K◆	14.0K◆	23.7K◆	38.3K◆	62.0K◆	105K◆	180K◆	300K◆	475K◆	787K
11.8	20.0◆	33.0◆	52.3◆	88.7	154	255◆	412◆	665◆	1.13K◆	1.91K◆	3.16K◆	5.10K◆	8.25K◆	14.3K◆	24.0K◆	39.0K◆	63.4K◆	107K◆	182K◆	301K◆	487K	806K
12.0◆	20.5	33.2◆	53.6◆	90.9◆	158◆	261◆	422◆	680◆	1.15K◆	1.96K◆	3.24K◆	5.11K◆	8.45K◆	14.7K◆	24.3K◆	39.2K◆	64.9K◆	110K◆	187K◆	309K◆	499K◆	820K◆
12.1◆	21.0	34.0	54.9◆	91.0◆	160◆	267◆	430◆	681◆	1.18K◆	2.00K◆	3.30K◆	5.23K◆	8.66K◆	15.0K◆	24.9K◆	40.2K◆	66.5K◆	113K◆	191K◆	316K◆	510K◆	825K◆
12.4◆	21.5	34.8◆	56.0◆	93.1	162◆	270◆	432◆	698◆	1.20K◆	2.05K◆	3.32K◆	5.36K◆	8.87K◆	15.4K◆	25.5K◆	41.2K◆	68.0K◆	115K◆	196K◆	324K◆	511K	845K
12.7	22.0◆	35.7◆	56.2◆	95.3◆	165◆	274◆	442◆	715◆	1.21K◆	2.10K◆	3.40K◆	5.49K◆	9.09K◆	15.8K◆	26.1K◆	42.2K◆	68.1K◆	118K◆	200K◆	330K◆	523K◆	866K◆
13.0	22.1◆	36.0◆	57.6◆	97.6	169◆	280◆	453◆	732◆	1.24K◆	2.15K◆	3.48K◆	5.60K◆	9.10K◆	16.0K◆	26.7K◆	43.0K◆	69.8K◆	120K◆	205K◆	332K◆	536K◆	887K◆
13.3	22.6◆	36.5◆	59.0	100◆	174◆	287◆	464◆	750◆	1.27K◆	2.20K◆	3.57K◆	5.62K◆	9.31K◆	16.2K◆	27.0K◆	43.2K◆	71.5K◆	121K◆	210K◆	340K◆	549K◆	909K
13.7	23.2◆	37.4◆	60.4◆	102◆	178◆	294◆	470◆	768	1.30K◆	2.21K◆	3.60K◆	5.76K◆	9.53K◆	16.5K◆	27.4K◆	44.2K◆	73.2K◆	124K◆	215K◆	348K◆	560K◆	910K◆
14.0	23.7	38.3◆	61.9◆	105◆	180◆	300◆	475◆	787◆	1.33K◆	2.26K◆	3.65K◆	5.90K◆	9.76K◆	16.9K◆	28.0K◆	45.3K◆	75.0K◆	127K◆	220K◆	357K◆	562K◆	931K
14.3◆	24.0◆	39.0◆	62.0◆	107◆	182◆	301◆	487◆	806◆	1.37K◆	2.32K◆	3.74K◆	6.04K◆	10.0K◆	17.4K◆	28.7K◆	46.4K◆	76.8K◆	130K◆	221K◆	360K◆	576K◆	953K
14.7	24.3◆	39.2◆	63.4	110◆	187◆	309◆	499◆	820◆	1.40K◆	2.37K◆	3.83K◆	6.19K◆	10.2K◆	17.8K◆	29.4K◆	47.0K◆	78.7K◆	133K◆	226K◆	365K◆	590K◆	976K
15.0◆	24.9◆	40.2◆	64.9◆	113◆	191◆	316	510◆	825◆	1.43K◆	2.40K◆	3.90K◆	6.20K◆	10.5K◆	18.0K◆	30.0K◆	47.5K◆	80.6K◆	137K◆	232K◆	374K◆	604K◆	1.00M◆
15.4	25.5◆	41.2	66.5◆	115◆	196	324◆	511◆	845◆	1.47K◆	2.43K◆	3.92K◆	6.34K◆	10.7K◆	18.2K◆	30.1K◆	48.7K◆	82.0K◆	140K◆	237K◆	383K◆	619K◆	1.20M◆
15.8	26.1	42.2	68.0◆	118	200◆	330◆	523◆	866◆	1.50K◆	2.49K◆	4.02K◆	6.49K◆	11.0K◆	18.7K◆	30.9K◆	49.9K◆	82.5K◆	143K◆	240K◆	390K◆	620K◆	1.21M◆
16.0◆	26.7	43.0◆	68.1◆	120◆	205◆	332◆	536◆	887◆	1.54K◆	2.55K◆	4.12K◆	6.65K◆	11.3K◆	19.1K◆	31.6K◆	51.0K◆	84.5K◆	147K◆	243K◆	392K◆	634K	1.50M◆
16.2	27.0◆	43.2◆	69.8◆	121◆	210◆	340◆	549◆	909◆	1.58K◆	2.61K◆	4.22K◆	6.80K◆	11.5K◆	19.6K◆	32.4K◆	51.1K◆	86.6K◆	150K◆	249K◆	402K◆	649K◆	2.00M◆
16.5◆	27.4◆	44.2	71.5	124◆	215◆	348◆	560◆	910◆	1.60K◆	2.67K◆	4.30K◆	6.81K◆	11.8K◆	20.0K◆	33.0K◆	52.3K◆	88.7K◆	154K◆	255K◆	412K◆	665K◆	
16.9◆	28.0	45.3◆	73.2	127◆	220◆	357◆	562◆	931◆	1.62K◆	2.70K◆	4.32K◆	6.98K◆	12.0K◆	20.5K◆	33.2K◆	53.6K◆	90.9K◆	158K◆	261K◆	422K◆	680K◆	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0603, 1/10 Watt	10.0 ~ 2.00M	50	0.063W	0.8	1.6	0.45	0.3	RHM(Value)HCT-ND	.76	2.04	4.68	RHM(Value)HTR-ND	4.50/M	MCR03EZPFXxxxx

◆ ***RoHS Compliant***

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ROHM 0201 / 0402 / 0603 / 0805 / 1206 Surface Mount 1% and 5% Thick Film Chip Resistors *(Cont.)*

MCR03 5%, 1/10 Watt — 0603 Series Resistor Values

0.0◆	1.8	3.9	7.5◆	15◆	30◆	56◆	110◆	220◆	430◆	820◆	1.6K◆	3.3K◆	6.2K◆	12K◆	24K◆	47K◆	91K	180K◆	360K	680K◆	1.3M◆	2.7M	5.1M◆
1.0◆	2.2◆	4.3	8.2	16◆	33◆	62◆	120◆	240◆	470◆	910	1.8K◆	3.6K◆	6.8K◆	13K◆	27K◆	51K◆	100K◆	200K◆	390K	750K	1.5M◆	3.0M◆	5.6M◆
1.1◆	2.4◆	4.7◆	9.1	18◆	36◆	68◆	130◆	270◆	510◆	1.0K◆	2.0K◆	3.9K◆	7.5K◆	15K◆	30K◆	56K◆	110K◆	220K◆	430K	820K◆	1.6M◆	3.3M◆	6.2M
1.2◆	2.7◆	5.1◆	10◆	20◆	39◆	75◆	150◆	300◆	560◆	1.1K◆	2.2K◆	4.3K◆	8.2K◆	16K◆	33K◆	62K◆	120K◆	240K◆	470K◆	910K	1.8M◆	3.6M	6.8M◆
1.3◆	3.0◆	5.6◆	11◆	22◆	43◆	82◆	160◆	330◆	620◆	1.2K◆	2.4K◆	4.7K◆	9.1K◆	18K◆	36K◆	68K◆	130K	270K◆	510K◆	1.0M◆	2.0M◆	3.9M	8.2M
1.5	3.3◆	6.2	12◆	24◆	47◆	91◆	180◆	360◆	680◆	1.3K◆	2.7K◆	5.1K◆	10K◆	20K◆	39K◆	75K◆	150K◆	300K◆	560K	1.1M◆	2.2M◆	4.3M	10M◆
1.6◆	3.6◆	6.8◆	13	27◆	51◆	100◆	200◆	390◆	750◆	1.5K◆	3.0K◆	5.6K◆	11K◆	22K◆	43K◆	82K◆	160K◆	330K◆	620K	1.2M◆	2.4M◆	4.7M◆	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0603, 1/10 Watt	0.0 ~ 10M	50	0.100W	0.8	1.6	0.45	0.3	RHM(Value)GCT-ND	.69	1.86	4.28	RHM(Value)GTR-ND	3.12/M	MCR03EZPJxxxx

◆ *RoHS Compliant*

MCR10 1%, 1/4, 1/8 Watt — 0805 Series Resistor Values

1.00	12.7	22.0◆	35.7	56.2◆	93.1	162	270◆	432◆	698◆	1.20K◆	2.05K	3.32K◆	5.36K◆	8.87K◆	15.4K◆	25.5K	41.2K◆	66.5K◆	113K	191K◆	316K	510K◆	825K	1.50M
1.10	13.0◆	22.1◆	36.0◆	57.6◆	95.3	165	274◆	442	715	1.21K◆	2.10K◆	3.40K◆	5.49K	9.09K◆	15.8K◆	26.1K◆	42.2K	68.0K◆	115K	196K	324K	511K◆	845K◆	1.54M
1.30	13.3◆	22.6◆	36.5◆	59.0◆	97.6	169◆	280◆	453◆	732◆	1.24K◆	2.15K◆	3.48K◆	5.60K◆	9.10K◆	16.0K◆	26.7K◆	43.0K◆	68.1K◆	118K	200K◆	330K◆	523K	866K	1.58M
1.50	13.7	23.2	37.4	60.4◆	100◆	174◆	287◆	464◆	750◆	1.27K	2.20K◆	3.57K◆	5.62K◆	9.31K	16.2K◆	27.0K◆	43.2K◆	69.8K◆	120K◆	205K	332K◆	536K	887K	1.62M
1.80	14.0	23.7	38.3	61.9◆	102	178	294	470◆	768◆	1.30K◆	2.21K◆	3.60K◆	5.76K	9.53K◆	16.5K◆	27.4K◆	44.2K	71.5K◆	121K	210K	340K	549K	909K	1.65M
2.00	14.3	24.0◆	39.0◆	62.0◆	105	180◆	300◆	475◆	787◆	1.33K◆	2.26K	3.65K◆	5.90K◆	9.76K◆	16.9K◆	28.0K◆	45.3K◆	73.2K	124K	215K◆	348K◆	560K◆	931K	1.69M
2.20	14.7	24.3	39.2◆	63.4	107	182◆	301◆	487◆	806	1.37K	2.32K◆	3.74K◆	6.04K◆	10.0K◆	17.4K◆	28.7K	46.4K◆	75.0K◆	127K◆	220K◆	357K	562K	953K	1.74M
3.00	15.0◆	24.9	40.2◆	64.9	110◆	187	309◆	499◆	820◆	1.40K◆	2.37K	3.83K◆	6.19K◆	10.2K	17.8K◆	29.4K◆	47.0K◆	76.8K	130K◆	221K◆	360K◆	576K	976K	1.80M◆
3.90	15.4	25.5	41.2◆	66.5◆	113	191◆	316◆	510◆	825◆	1.43K	2.40K◆	3.90K◆	6.20K◆	10.5K	18.0K◆	30.0K◆	47.5K◆	78.7K◆	133K	226K	365K	590K	1.00M◆	1.82M
4.70	15.8	26.1	42.2	68.0◆	115	196	324◆	511◆	845◆	1.47K◆	2.43K◆	3.92K◆	6.34K◆	10.7K	18.2K	30.1K◆	48.7K	80.6K◆	137K◆	232K	374K	604K	1.02M	1.87M
5.60	16.0◆	26.7	43.0◆	68.1◆	118	200◆	330◆	523◆	866◆	1.50K◆	2.49K◆	4.02K◆	6.49K◆	11.0K◆	18.7K	30.9K	49.9K◆	82.0K◆	140K◆	237K	383K	619K◆	1.05M	1.91M
6.20	16.2	27.0◆	43.2◆	69.8	120◆	205	332◆	536	887	1.54K	2.55K	4.12K◆	6.65K	11.3K◆	19.1K	31.6K◆	51.0K◆	82.5K	143K◆	240K◆	390K◆	620K◆	1.10M◆	1.96M
6.80	16.5	27.4◆	44.2	71.5◆	121◆	210◆	340◆	549	909	1.58K◆	2.61K	4.22K◆	6.80K◆	11.5K	19.6K◆	32.4K	51.1K◆	84.5K	147K	243K◆	392K	634K	1.13M	2.00M
7.50	16.9	28.0	45.3◆	73.2	124◆	215◆	348	560◆	910◆	1.60K◆	2.67K	4.30K◆	6.81K◆	11.8K◆	20.0K◆	33.0K◆	52.3K◆	86.6K	150K◆	249K◆	402K	649K	1.15M	2.05M
10.0◆	17.4	28.7	46.4◆	75.0◆	127◆	220◆	357	562◆	931◆	1.62K◆	2.70K◆	4.32K◆	6.98K	12.0K◆	20.5K	33.2K◆	53.6K	88.7K◆	154K	255K	412K	665K	1.18M	2.10M
10.2	17.8◆	29.4	47.0◆	76.8	130◆	221◆	360◆	576	953	1.65K	2.74K◆	4.42K◆	7.15K◆	12.1K◆	21.0K	34.0K	54.9K◆	90.9K	158K	261K◆	422K◆	680K◆	1.20M◆	2.15M
10.5	18.0◆	30.0◆	47.5◆	78.7◆	133◆	226	365	590◆	976	1.69K	2.80K	4.53K◆	7.32K	12.4K◆	21.5K◆	34.8K	56.0K◆	91.0K◆	160K◆	267K	430K◆	681K◆	1.21M◆	2.20M◆
10.7	18.2	30.1◆	48.7	80.6◆	137	232	374	604	1.00K◆	1.74K◆	2.87K◆	4.64K◆	7.50K◆	12.7K◆	22.0K◆	35.7K	56.2K◆	93.1K	162K	270K◆	432K◆	698K	1.24M◆	
11.0◆	18.7	30.9	49.9◆	82.0◆	140	237◆	383◆	619◆	1.02K	1.78K	2.94K	4.70K◆	7.68K	13.0K◆	22.1K◆	36.0K◆	57.6K	95.3K◆	165K◆	274K	442K◆	715K	1.27M	
11.3	19.1	31.6	51.0◆	82.5◆	143	240◆	390◆	620◆	1.05K	1.80K◆	3.00K◆	4.75K◆	7.87K◆	13.3K	22.6K	36.5K	59.0K	97.6K	169K◆	280K	453K◆	732K	1.30M	
11.5	19.6	32.4	51.1◆	84.5	147	243◆	392◆	634	1.07K◆	1.82K	3.01K	4.87K◆	8.06K◆	13.7K	23.2K	37.4K◆	60.4K	100K◆	174K	287K	464K	750K◆	1.33M	
11.8	20.0◆	33.0◆	52.3	86.6	150◆	249◆	402◆	649◆	1.10K◆	1.87K	3.09K	4.99K	8.20K◆	14.0K◆	23.7K◆	38.3K◆	61.9K◆	102K	178K◆	294K◆	470K◆	768K	1.37M	
12.0◆	20.5	33.2◆	53.6	88.7	154	255◆	412	665◆	1.13K◆	1.91K◆	3.16K◆	5.10K◆	8.25K◆	14.3K◆	24.0K◆	39.0K◆	62.0K◆	105K◆	180K◆	300K◆	475K◆	787K	1.40M	
12.1	21.0	34.0	54.9	90.9◆	158◆	261◆	422◆	680◆	1.15K	1.96K◆	3.24K◆	5.11K◆	8.45K	14.7K◆	24.3K◆	39.2K◆	63.4K	107K◆	182K	301K	487K	806K	1.43M	
12.4	21.5◆	34.8◆	56.0◆	91.0◆	160◆	267◆	430◆	681◆	1.18K	2.00K◆	3.30K◆	5.23K◆	8.66K◆	15.0K◆	24.9K	40.2K◆	64.9K	110K◆	187K◆	309K	499K◆	820K◆	1.47M	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0805, 1/4 Watt	1.00 ~ 7.50	150	0.25W	1.25	2.0	0.55	0.4	RHM(Value)CCT-ND	1.41	5.00	16.49	RHM(Value)CTR-ND	46.92/M	MCR10EZHFLxxxx
1%, 0805, 1/8 Watt	10.0 ~ 2.20M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)CCT-ND	.38	1.34	4.41	RHM(Value)CTR-ND	5.52/M	MCR10EZHFxxxx
1%, 0805, 1/8 Watt	10.0 ~ 2.20M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)CRCT-ND◆	.37	1.32	4.33	RHM(Value)CRTR-ND◆	5.00/M	MCR10EZPFxxxx

◆ Values also available as **Resin Overcoated** – which are also RoHS Compliant

MCR10 5%, 1/8 Watt — 0805 Series Resistor Values

0.0◆	1.8◆	3.6◆	6.8◆	13◆	27◆	51◆	100◆	200◆	390◆	750◆	1.5K◆	3.0K◆	5.6K◆	11K◆	22K◆	43K◆	82K◆	160K◆	330K◆	620K◆	1.2M◆	2.4M	4.7M◆	9.1M
1.0◆	2.0	3.9◆	7.5◆	15◆	30◆	56◆	110◆	220◆	430◆	820◆	1.6K◆	3.3K◆	6.2K◆	12K◆	24K◆	47K◆	91K◆	180K◆	360K◆	680K◆	1.3M	2.7M◆	5.1M◆	10M◆
1.1	2.2◆	4.3◆	8.2◆	16◆	33◆	62◆	120◆	240◆	470◆	910◆	1.8K◆	3.6K◆	6.8K◆	13K◆	27K◆	51K◆	100K◆	200K◆	390K◆	750K◆	1.5M◆	3.0M◆	5.6M	
1.2◆	2.4◆	4.7◆	9.1◆	18◆	36◆	68◆	130◆	270◆	510◆	1.0K◆	2.0K◆	3.9K◆	7.5K◆	15K◆	30K◆	56K◆	110K◆	220K◆	430K◆	820K◆	1.6M◆	3.3M◆	6.2M	
1.3◆	2.7◆	5.1◆	10◆	20◆	39◆	75◆	150◆	300◆	560◆	1.1K◆	2.2K◆	4.3K◆	8.2K◆	16K◆	33K◆	62K◆	120K◆	240K◆	470K◆	910K◆	1.8M	3.6M	6.8M	
1.5◆	3.0◆	5.6◆	11◆	22◆	43◆	82◆	160◆	330◆	620◆	1.2K◆	2.4K◆	4.7K◆	9.1K◆	18K◆	36K◆	68K◆	130K◆	270K◆	510K◆	1.0M◆	2.0M	3.9M◆	7.5M	
1.6	3.3◆	6.2◆	12◆	24◆	47◆	91◆	180◆	360◆	680◆	1.3K◆	2.7K◆	5.1K◆	10K◆	20K◆	39K◆	75K◆	150K◆	300K◆	560K◆	1.1M◆	2.2M◆	4.3M	8.2M◆	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0805, 1/8 Watt	0.00 ~ 10M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)ACT-ND	.76	2.04	4.68	RHM(Value)ATR-ND	4.50/M	MCR10EZHJxxx
5%, 0805, 1/8 Watt	0.00 ~ 10M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)ARCT-ND◆	.33	1.17	3.85	RHM(Value)ARTR-ND◆	4.00/M	MCR10EZPJxxx

◆ Values also available as **Resin Overcoated** – which are also RoHS Compliant

MCR18 1%, 1/4 Watt — 1206 Series Resistor Values

1.00	10.7	19.1	33.0◆	54.9	93.1	169	294◆	487	825◆	1.50K◆	2.61K	4.32K◆	7.32K	13.0K◆	23.2K	39.2K	66.5K	118K	210K	357K	590K◆	1.02M	1.82M
1.10	11.0◆	19.6	33.2◆	56.0◆	95.3◆	174	300◆	499	845	1.54K	2.67K◆	4.42K◆	7.50K◆	13.3K◆	23.7K	40.2K◆	68.0K◆	120K◆	215K◆	360K◆	604K	1.05M	1.87M
1.20	11.3	20.0◆	34.0	56.2◆	97.6	178	301◆	510◆	866	1.58K	2.70K◆	4.53K	7.68K◆	13.7K	24.0K◆	41.2K	68.1K◆	121K	220K◆	365K	619K	1.07M	1.91M
1.30	11.5	20.5	34.8	57.6◆	100◆	180◆	309◆	511◆	887	1.60K◆	2.74K◆	4.64K◆	7.87K◆	14.0K◆	24.3K	42.2K◆	69.8K	124K◆	221K	374K	620K◆	1.10M	1.96M
1.50	11.8◆	21.0	35.7◆	59.0◆	102◆	182	316◆	523◆	909	1.62K◆	2.80K	4.70K◆	8.06K	14.3K	24.9K	43.0K◆	71.5K	127K	226K	383K	634K	1.13M	2.00M◆
1.60	12.0◆	21.5◆	36.0◆	60.4◆	105	187	324	536	910◆	1.65K	2.87K	4.75K◆	8.20K◆	14.7K◆	25.5K◆	43.2K	73.2K	130K◆	232K	390K◆	649K	1.15M	2.05M
1.80	12.1	22.0◆	36.5◆	61.9◆	107	191	330◆	549	931	1.69K	2.94K	4.87K	8.25K	15.0K◆	26.1K◆	44.2K◆	75.0K◆	133K	237K◆	392K	665K	1.18M	2.10M
2.00	12.4	22.1◆	37.4◆	62.0◆	110◆	196	332◆	560◆	953	1.74K◆	3.00K◆	4.99K◆	8.45K	15.4K◆	26.7K◆	45.3K	76.8K	137K	240K◆	402K	680K◆	1.20M◆	2.15M
2.20	12.7	22.6	38.3◆	63.4	113	200◆	340	562	976	1.78K	3.01K◆	5.10K◆	8.66K◆	15.8K	27.0K◆	46.4K◆	78.7K◆	140K	243K	412K	681K	1.21M	2.20M◆
2.40	13.0◆	23.2	39.0◆	64.9◆	115	205	348◆	576	1.00K◆	1.80K◆	3.09K◆	5.11K◆	8.87K◆	16.0K◆	28.0K	47.0K◆	80.6K◆	143K◆	249K	422K◆	698K	1.24M	
2.70	13.3	23.7◆	39.2◆	66.5	118	210	357◆	590	1.02K	1.82K◆	3.16K◆	5.23K	9.09K◆	16.2K	28.7K◆	47.5K◆	82.0K◆	147K	255K	430K◆	715K	1.27M	
3.00	13.7	24.0◆	40.2	68.0◆	120◆	215	360◆	604	1.05K	1.87K	3.24K	5.36K	9.10K◆	16.5K	29.4K	48.7K◆	82.5K	150K◆	261K◆	432K	732K	1.30M	
3.30	14.0	24.3	41.2	68.1◆	121◆	220◆	365◆	619◆	1.07K◆	1.91K◆	3.30K◆	5.49K	9.31K	16.9K◆	30.0K◆	49.9K◆	84.5K	154K	267K◆	442K	750K◆	1.33M	
3.60	14.3	24.9◆	42.2	69.8◆	124	221◆	374	620◆	1.10K◆	1.96K	3.32K◆	5.60K◆	9.53K	17.4K	30.1K◆	51.0K◆	86.6K	158K	270K◆	453K	768K	1.37M	
3.90	14.7	25.5	43.0◆	71.5◆	127	226	383	634	1.13K	2.00K◆	3.40K◆	5.62K◆	9.76K	17.8K◆	30.9K	51.1K◆	88.7K	160K◆	274K	464K	787K	1.40M	
4.30	15.0◆	26.1	43.2◆	73.2◆	130◆	232	390◆	649◆	1.15K	2.05K	3.48K	5.76K◆	10.0K◆	18.0K◆	31.6K	52.3K	90.9K◆	162K	280K◆	470K◆	806K	1.43M	
4.70	15.4	26.7	44.2	75.0◆	133	237◆	392	665	1.18K◆	2.10K	3.57K	5.90K	10.2K◆	18.2K◆	32.4K◆	53.6K◆	91.0K◆	165K◆	287K	475K◆	820K◆	1.47M	
5.10	15.8◆	27.0◆	45.3	76.8◆	137	240◆	402◆	680◆	1.20K◆	2.15K◆	3.60K◆	6.04K◆	10.5K	18.7K◆	33.0K◆	54.9K◆	93.1K	169K◆	294K	487K	825K◆	1.50M◆	
5.60	16.0◆	27.4◆	46.4	78.7◆	140	243	412	681◆	1.21K◆	2.20K◆	3.65K◆	6.19K◆	10.7K	19.1K	33.2K◆	56.0K◆	95.3K◆	174K	300K◆	499K	845K	1.54M	
6.20	16.2	28.0	47.0◆	80.6◆	143	249	422	698◆	1.24K	2.21K◆	3.74K	6.20K◆	11.0K◆	19.6K	34.0K	56.2K	97.6K	178K◆	301K◆	510K◆	866K	1.58M	
6.80	16.5◆	28.7◆	47.5◆	82.0◆	147	255	430◆	715◆	1.27K◆	2.26K	3.83K◆	6.34K	11.3K	20.0K◆	34.8K	57.6K	100K◆	180K◆	309K◆	511K◆	887K	1.60M	
7.50	16.9	29.4	48.7	82.5◆	150◆	261	432◆	732	1.30K◆	2.32K	3.90K◆	6.49K◆	11.5K◆	20.5K	35.7K◆	59.0K◆	102K	182K	316K	523K	909K	1.62M	
8.20	17.4	30.0◆	49.9	84.5	154◆	267	442	750◆	1.33K◆	2.37K◆	3.92K	6.65K	11.8K	21.0K	36.0K◆	60.4K	105K	187K	324K◆	536K	910K◆	1.65M	
9.10	17.8	30.1◆	51.0◆	86.6◆	158	270◆	453	768	1.37K◆	2.40K◆	4.02K◆	6.80K◆	12.0K◆	21.5K◆	36.5K	61.9K	107K	191K	330K◆	549K	931K◆	1.69M	
10.0◆	18.0◆	30.9◆	51.1◆	88.7	160◆	274	464	787	1.40K	2.43K	4.12K	6.81K◆	12.1K◆	22.0K◆	37.4K	62.0K◆	110K◆	196K	332K◆	560K◆	953K	1.74M	
10.2	18.2	31.6	52.3	90.9◆	162	280	470◆	806	1.43K	2.49K◆	4.22K	6.98K◆	12.4K	22.1K◆	38.3K	63.4K	113K	200K◆	340K	562K	976K	1.78M	
10.5	18.7	32.4	53.6◆	91.0	165	287	475◆	820◆	1.47K	2.55K	4.30K◆	7.15K	12.7K◆	22.6K	39.0K◆	64.9K	115K	205K	348K	576K	1.00M◆	1.80M	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 1206, 1/4 Watt	1.00 ~ 9.10	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)FCT-ND	2.03	7.20	23.73	RHM(Value)FTR-ND	71.76/M	MCR18EZHFLxxxx
1%, 1206, 1/4 Watt	10.0 ~ 2.20M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)FCT-ND	.47	1.66	5.46	RHM(Value)FTR-ND	9.12/M	MCR18EZHFxxxx
1%, 1206, 1/4 Watt	10.0 ~ 2.20M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)FRCT-ND◆	.46	1.63	5.38	RHM(Value)FRTR-ND◆	9.00/M	MCR18EZPFxxxx

◆ Values also available as **Resin Overcoated** – which are also RoHS Compliant

(Continued)

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

0201 / 0402 / 0603 / 0805 / 1206 Surface Mount 1% and 5% Thick Film Chip Resistors *(Cont.)*

MCR18 5%, 1/4 Watt — 1206 Series Resistor Values

0.0◆	3.3◆	11◆	39◆	150◆	510◆	1.8K◆	6.2K◆	22K◆	75K◆	270K◆	910K◆	3.3M◆
1.0◆	3.6	12◆	43◆	160◆	560◆	2.0K◆	6.8K◆	24K◆	82K◆	300K◆	1.0M◆	3.6M
1.1◆	3.9◆	13◆	51◆	180◆	620◆	2.2K◆	7.5K◆	27K◆	91K◆	330K◆	1.1M	3.9M◆
1.2◆	4.3◆	15◆	56◆	200◆	680◆	2.4K◆	8.2K◆	30K◆	100K◆	360K◆	1.2M	4.3M
1.3	4.7◆	16◆	62◆	220◆	750◆	2.7K◆	9.1K◆	33K◆	110K◆	390K◆	1.3M	4.7M◆
1.5◆	5.1◆	18◆	68◆	240◆	820◆	3.0K◆	10K◆	36K◆	120K◆	430K◆	1.5M◆	5.1M
1.6◆	5.6◆	20◆	75◆	270◆	910◆	3.3K◆	11K◆	39K◆	130K◆	470K◆	1.6M	5.6M◆
1.8◆	6.2◆	22◆	82◆	300◆	1.0K◆	3.6K◆	12K◆	43K◆	150K◆	510K◆	1.8M◆	6.2M
2.0	6.8◆	24◆	91◆	330◆	1.1K◆	3.9K◆	13K◆	47K◆	160K◆	560K◆	2.0M◆	6.8M◆
2.2◆	7.5	27◆	100◆	360◆	1.2K◆	4.3K◆	15K◆	51K◆	180K◆	620K◆	2.2M◆	7.5M
2.4◆	8.2◆	30◆	110◆	390◆	1.3K◆	4.7K◆	16K◆	56K◆	200K◆	680K◆	2.4M	8.2M
2.7◆	9.1◆	33◆	120◆	430◆	1.5K◆	5.1K◆	18K◆	62K◆	220K◆	750K◆	2.7M	9.1M
3.0◆	10◆	36◆	130◆	470◆	1.6K◆	5.6K◆	20K◆	68K◆	240K◆	820K◆	3.0M	10M◆

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 1206, 1/4 Watt	0.0 ~ 10M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)ECT-ND	.91	2.46	5.65	RHM(Value)ETR-ND	7.95/M	MCR18EZHJxxx
5%, 1206, 1/4 Watt	0.0 ~ 10M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)ERCT-ND◆	.40	1.41	4.66	RHM(Value)ERTR-ND◆	6.00/M	MCR18EZPJxxx

◆ Values also available as **Resin Overcoated** – which are also RoHS Compliant

KTR10 5%, 1/8 Watt, High Voltage — 0805 Series Resistor Values – *RoHS Compliant*

1.0	27	100	510	22K	300K	1.0M	4.7M
4.7	33	150	1.0K	33K	470K	1.5M	5.1M
5.1	47	200	3.0K	47K	510K	2.0M	5.6M
10	56	300	10K	100K	680K	2.2M	10M
22	62	390	20K	200K	750K	3.3M	30M

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0805, 1/8 Watt	1.0 ~ 30M	400	0.125W	1.25	2.0	0.55	0.4	RHM(Value)BCT-ND	1.93	5.18	11.91	RHM(Value)BTR-ND	30.03/M	KTR10EZPJxxx

KTR18 5%, 1/4 Watt, High Voltage — 1206 Series Resistor Values – *RoHS Compliant*

1.5	8.2	33	82	160	330	680	1.3K	3.0K	7.5K	22K	62K	150K	330K	680K	1.5M	3.9M	10M
1.8	10	39	91	180	360	750	1.5K	3.3K	8.2K	27K	68K	180K	360K	750K	1.6M	4.7M	
2.0	12	47	100	200	390	820	1.6K	3.9K	10K	33K	75K	200K	390K	820K	1.8M	5.1M	
3.3	16	51	110	220	430	910	1.8K	4.3K	12K	39K	82K	220K	430K	1.0M	2.0M	5.6M	
4.7	18	56	120	240	470	1.0K	2.0K	4.7K	15K	47K	100K	240K	470K	1.1M	2.2M	6.8M	
5.6	22	68	130	270	510	1.1K	2.2K	5.6K	18K	51K	110K	270K	510K	1.2M	3.0M	7.5M	
6.8	27	75	150	300	560	1.2K	2.7K	6.8K	20K	56K	120K	300K	560K	1.3M	3.3M	8.2M	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 1206, 1/4 Watt	1.5 ~ 10M	500	0.25W	1.6	3.2	0.55	0.5	RHM(Value)PCT-ND	1.93	5.18	11.91	RHM(Value)PTR-ND	30.03/M	KTR18EZPJxxx

ESR03 5%, 1/5 Watt, Anti-Surge — 0603 Series Resistor Values – *RoHS Compliant*

13	300	470	910	2.2K	10K
130	330	510	1.0K	4.7K	22K
240	390	560	2.0K	5.1K	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0603, 1/5 Watt	13 ~ 22K	50	0.2W	0.8	1.6	0.45	0.3	RHM(Value)DCT-ND	1.42	3.82	8.78	RHM(Value)DTR-ND	18.99/M	ESR03EZPJxxx

ESR10 5%, 1/4 Watt, Anti-Surge — 0805 Series Resistor Values – *RoHS Compliant*

1	2.2	5.6	12	24	47	91	180	360	820	1.8K	3.6K	7.5K	20K	51K	220K
1.1	2.4	6.2	13	27	51	100	200	390	910	2.0K	3.9K	8.2K	22K	56K	300K
1.2	2.7	6.8	15	30	56	110	220	470	1.0K	2.2K	4.3K	9.1K	24K	68K	470K
1.5	3.3	7.5	16	33	62	120	240	510	1.1K	2.4K	4.7K	10K	27K	82K	560K
1.6	3.9	8.2	18	36	68	130	270	560	1.2K	2.7K	5.1K	12K	33K	91K	1.5M
1.8	4.7	10	20	39	75	150	300	680	1.5K	3.0K	5.6K	13K	39K	100K	10M
2	5.1	11	22	43	82	160	330	750	1.6K	3.3K	6.8K	18K	47K	200K	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0805, 1/4 Watt	1 ~10M	150	0.25W	1.25	2.0	0.55	0.4	RHM(Value)KCT-ND	1.42	3.82	8.78	RHM(Value)KTR-ND	18.99/M	ESR10EZPJxxx

ESR18 5%, 1/3 Watt, Anti-Surge — 1206 Series Resistor Values – *RoHS Compliant*

1	4.7	10	20	36	100	360	750	1.5K	2.7K	4.7K	12K	39K	200K	1.0M
1.1	5.1	12	24	39	120	430	910	1.6K	3.0K	5.1K	18K	47K	220K	3.0M
2.2	6.8	13	27	47	200	470	1.0K	1.8K	3.3K	5.6K	20K	82K	470K	10M
2.4	7.5	15	30	62	270	510	1.2K	2.0K	3.6K	8.2K	22K	100K	680K	
3.3	9.1	18	33	75	300	620	1.3K	2.2K	3.9K	10K	33K	150K	820K	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 1206, 1/3 Watt	1 ~ 10M	200	0.33W	1.25	2.0	0.55	0.4	RHM(Value)ICT-ND	2.29	6.16	14.15	RHM(Value)ITR-ND	37.95/M	ESR18EZPJxxx

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

YAGEO

Surface Mount Thin Film Chip Resistors

Digi-Reel® RoHS COMPLIANT

Description:
The resistors are constructed out of a high-grade ceramic body. Internal metal electrodes are added at each end and connected by a resistive material. The composition of the resistive material is adjusted to give the approximate required resistance and laser cutting of this resistive layer that achieves tolerance trims the value. The resistive layer is covered with a protective coat and printed with the resistance value. Finally, the two external terminations (matte tin) are added.

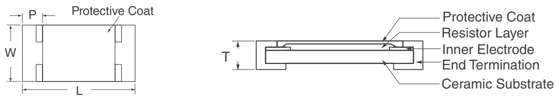

Series	Power Rating @ 70°	Dimensions (mm)				Resis-tance Range	Temperature Coefficient
		L	W	P	T		
RT0603	1/10 Watt	1.6±0.10	.80±0.10	.25±0.15	.45±0.10	0.50%	±25ppm/°C
RT0805	1/8 Watt	2.00±0.10	1.25±0.10	.35±0.20	.50±0.10	0.50%	±50ppm/°C
RT0402	1/16 Watt	1.00±0.10	.50±0.50	.20±0.10	.35±0.05	0.50%	±50ppm/°C
RJ0805	1/10 Watt	2.00±0.10	1.25±0.10	.35±0.20	.50±0.10	1%	±50ppm/°C
RJ1206	1/8 Watt	3.10±0.10	1.60±0.10	.45±0.20	.55±0.10	1%	±50ppm/°C
RL0402	1/16 Watt	1.00±0.10	.50±0.05	.20±0.10	.35±0.05	1%	.10Ω ~ .82Ω ±800ppm/°C
RL0603	1/10 Watt	1.60±0.10	.80±0.10	.25±0.15	.45±0.10	1%	.10Ω ~ .47Ω ±800ppm/°C .56Ω ~ .82Ω ±300ppm/°C
RL0805	1/8 Watt	2.00±0.10	1.25±0.10	.35±0.20	.50±0.10	1%	.10Ω ~ .33Ω ±600ppm/°C .36Ω ~ .47Ω ±300ppm/°C .50Ω ~ .91Ω ±200ppm/°C
RL2512	1 Watt	6.35±0.10	3.20±0.15	.60±0.20	.55±0.10	1%	.01Ω ~ .015Ω ±1500ppm/°C .018Ω ~ .039Ω ±1200ppm/°C .047Ω ±800ppm/°C

.5% 1/10 Watt — 0603 Series

Resistor Values

100	422	1.3K	3.57K	8.45K	20K	44.2K	124K
110	430	1.37K	3.6K	8.66K	20.5K	47K	130K
120	432	1.4K	3.9K	8.87K	21K	47.5K	140K
121	464	1.47K	3.92K	9.09K	21.5K	48.7K	147K
124	470	1.5K	4.02K	9.1K	22K	51K	150K
130	475	1.6K	4.22K	9.31K	22.1K	51.1K	160K
147	499	1.62K	4.3K	9.53K	22.6K	52.3K	165K
150	510	1.69K	4.7K	10K	23.2K	53.6K	178K
154	560	1.78K	4.75K	10.2K	24K	56K	180K
160	562	1.8K	4.87K	10.5K	24.3K	56.2K	200K
165	590	1.96K	4.99K	11K	24.9K	59K	220K
180	604	2.0K	5.1K	11.5K	27K	60.4K	221K
182	619	2.1K	5.11K	12K	27.4K	61.9K	240K
200	620	2.2K	5.36K	12.1K	28K	62K	243K
210	649	2.21K	5.49K	12.4K	28.7K	66.5K	249K
220	680	2.4K	5.6K	13K	29.4K	68K	255K
221	681	2.43K	5.62K	13.3K	30K	68.1K	270K
240	715	2.49K	5.9K	14K	30.1K	69.8K	300K
267	750	2.55K	6.04K	15K	32.4K	75K	301K
274	806	2.67K	6.2K	15.8K	33K	78.7K	309K
300	820	2.7K	6.34K	16K	33.2K	80.6K	324K
301	825	2.74K	6.8K	16.2K	34K	82K	330K
330	845	2.87K	6.81K	16.5K	34.8K	84.5K	332K
332	910	3.0K	6.98K	17.4K	36K	90.9K	
348	1.0K	3.01K	7.15K	17.8K	37.4K	91K	
360	1.1K	3.09K	7.5K	18K	39K	100K	
390	1.2K	3.16K	8.06K	18.2K	40.2K	107K	
392	1.21K	3.32K	8.2K	18.7K	43K	110K	
402	1.24K	3.4K	8.25K	19.6K	43.2K	120K	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
100Ω ~ 332KΩ	311-(Value)DCT-ND	2.31	6.22	14.28	5,000	38.00/M	RT0603DRD07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

.5% 1/8 Watt — 0805 Series

Resistor Values

10	15	21.5	27	33	47	61.9	82
11	16	22	27.4	36	47.5	62	82.5
12	18	22.6	30	39	49.9	68	91
12.4	19.6	24	30.1	40.2	51	75	
13	20	24.9	32.4	43	56	80.6	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
10 ~ 91Ω	311-(Value)BCT-ND	2.20	5.92	13.60	5,000	36.00/M	RT0805DRE07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

.5% 1/16 Watt — 0402 Series

Resistor Values

10	20	30	36	47	51	56.2	68
15	27	33	39	49.9	56	62	82

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
10 ~ 82Ω	311-(Value)UCT-ND	1.05	2.81	6.46	10,000	10.00/M	RT0402DRE07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

1% 1/10 Watt — 0805 Series

Resistor Values

3.0	3.6	4.3	5.1	6.2	7.5	9.1
3.3	3.9	4.7	5.6	6.8	8.2	10

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
3 ~ 10Ω	311-(Value)VCT-ND	1.39	3.74	8.59	5,000	18.00/M	RJ0805FRExxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

1% 1/8 Watt — 1206 Series

Resistor Values

3.0	3.3	3.6	3.9	4.3	4.7

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
3 ~ 4.7Ω	311-(Value)NCT-ND	1.58	4.26	9.78	5,000	23.00/M	RJ1206FRExxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

1% 1/16 Watt — 0402 Series

Resistor Values

.10	.15	.22	.33	.47	.68
.12	.18	.27	.39	.56	.82

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
.10 ~ .82Ω	311-(Value)PCT-ND	9.31	25.05	57.55	10,000	172.00/M	RL0402FR-07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

1% 1/10 Watt — 0603 Series

Resistor Values

.10	.15	.22	.33	.47	.68
.12	.18	.27	.39	.56	.82

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
.10 ~ .82Ω	311-(Value)QCT-ND	9.31	25.05	57.55	5,000	191.00/M	RL0603FR-07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

1% 1/8 Watt — 0805 Series

Resistor Values

.10	.16	.27	.43	.62
.11	.18	.30	.47	.68
.12	.20	.33	.50	.75
.13	.22	.36	.51	.82
.15	.24	.39	.56	.91

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
.10 ~ .91Ω	311-(Value)SCT-ND	9.31	25.05	57.55	5,000	191.00/M	RL0805FR-07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

1% 1 Watt — 2512 Series

Resistor Values

.010	.018	.027	.039
.015	.022	.033	.047

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
.010 ~ .047Ω	311-(Value)TCT-ND	8.53	30.22	99.54	4,000	242.00/M	RL2512FK-07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

YAGEO Surface Mount 1% & 5% Thick Film Chip Resistors

Description: The resistors are constructed on a high grade ceramic body (aluminum oxide). Internal metal electrodes are added at each end and connected by a resistive paste which is applied to the top surface of the substrate. The composition of the paste is adjusted to give the approximate resistance required and the value is trimmed to within tolerance, by laser cutting of the resistive layer. The resistive layer is covered with a protective coat. Finally, the two external end terminations are added. For ease of soldering the outer layer of these end terminations is a lead/tin alloy. End terminations on RoHS Compliant parts are pure tin.

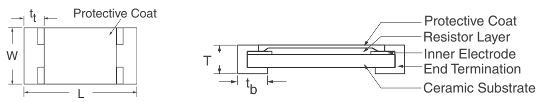

Size	Power Rating at 70°	Working Voltage (Maximum)	Dimensions (mm)					Resistance Range	Temperature Coefficient
			L	W	T	t_t	t_b		
0402	1/16W	50V	1.00	0.50	0.35	0.20	0.25	5% 1%	10Ω < R ≤ 10MΩ ±100ppm/°C 1Ω < R ≤ 10MΩ ±200ppm/°C
0603	1/10W	50V	1.60	0.80	0.45	0.25	0.25	5% 1%	10Ω < R ≤ 10MΩ ±100ppm/°C R ≤ 10Ω; R > 10MΩ ±200ppm/°C
0805	1/8W	150V	2.00	1.25	0.50	0.35	0.35	5% 1%	10Ω < R ≤ 10MΩ ±100ppm/°C R ≤ 10Ω; R > 10MΩ ±200ppm/°C
1206	1/4 W	200V	3.10	1.60	0.55	0.45	0.40	5% 1%	10Ω < R ≤ 10MΩ ±100ppm/°C R ≤ 10Ω; R > 10MΩ ±200ppm/°C

1%, 1/10 Watt — 0603 Series

Resistor Values

1.00	17.4	43.2	115	301	750	2.05K	5.10K	13.3K	34.8K	88.7K	240K	590K
2.00	17.8	44.2	118	309	768	2.10K	5.11K	13.7K	35.7K	90.9K	243K	604K
2.10	18.0	45.3	120	316	787	2.15K	5.23K	14.0K	36.0K	91.0K	249K	619K
2.15	18.2	46.4	121	324	806	2.20K	5.36K	14.3K	36.5K	93.1K	255K	620K
2.21	18.7	47.0	124	330	820	2.21K	5.49K	14.7K	37.4K	95.3K	261K	634K
2.43	19.1	47.5	127	332	825	2.26K	5.60K	15.0K	38.3K	97.6K	267K	649K
2.49	19.6	48.7	130	340	845	2.32K	5.62K	15.4K	39.0K	100K	270K	665K
2.74	20.0	49.9	133	348	866	2.37K	5.76K	15.8K	39.2K	102K	274K	680K
3.01	20.5	51.0	137	357	887	2.40K	5.90K	16.0K	40.2K	105K	280K	681K
3.32	21.0	51.1	140	360	909	2.43K	6.04K	16.2K	41.2K	107K	287K	698K
3.92	21.5	52.3	143	365	910	2.49K	6.19K	16.5K	42.2K	110K	294K	715K
4.02	22.0	53.6	147	374	931	2.55K	6.20K	16.9K	43.0K	113K	300K	732K
4.42	22.1	54.9	150	383	953	2.61K	6.34K	17.4K	43.2K	115K	301K	750K
4.75	22.6	56.0	154	390	976	2.67K	6.49K	17.8K	44.2K	118K	309K	768K
4.99	23.2	56.2	158	392	1.00K	2.70K	6.65K	18.0K	45.3K	120K	316K	787K
5.11	23.7	57.6	160	402	1.02K	2.74K	6.80K	18.2K	46.4K	121K	324K	806K
5.23	24.0	59.0	162	412	1.05K	2.80K	6.81K	18.7K	47.0K	124K	330K	820K
5.62	24.3	60.4	165	422	1.07K	2.87K	6.98K	19.1K	47.5K	127K	332K	825K
5.76	24.9	61.9	169	430	1.10K	2.94K	7.15K	19.6K	48.7K	130K	340K	845K
6.04	25.5	62.0	174	432	1.13K	3.00K	7.32K	20.0K	49.9K	133K	348K	866K
6.81	26.1	63.4	178	442	1.15K	3.01K	7.50K	20.5K	51.0K	137K	357K	887K
7.50	26.7	64.9	180	453	1.18K	3.09K	7.68K	21.0K	51.1K	140K	360K	909K
10.0	27.0	66.5	182	464	1.20K	3.16K	7.87K	21.5K	52.3K	143K	365K	910K
10.2	27.4	68.0	187	470	1.21K	3.24K	8.06K	22.0K	53.6K	147K	374K	931K
10.5	28.0	68.1	191	475	1.24K	3.30K	8.20K	22.1K	54.9K	150K	383K	953K
10.7	28.7	69.8	196	487	1.27K	3.32K	8.25K	22.6K	56.2K	154K	390K	976K
11.0	29.4	71.5	200	499	1.30K	3.40K	8.45K	23.2K	57.6K	158K	392K	1.00M
11.3	30.0	73.2	205	510	1.33K	3.48K	8.66K	23.7K	59.0K	160K	402K	1.20M
11.5	30.1	75.0	210	511	1.37K	3.57K	8.87K	24.0K	60.4K	162K	412K	1.21M
11.8	30.9	76.8	215	523	1.40K	3.60K	9.09K	24.3K	61.9K	165K	422K	1.50M
12.0	31.6	78.7	220	536	1.43K	3.65K	9.10K	24.9K	62.0K	169K	430K	2.00M
12.1	32.4	80.6	221	549	1.47K	3.74K	9.31K	25.5K	63.4K	174K	432K	2.21M
12.4	33.0	82.0	226	560	1.50K	3.83K	9.53K	26.1K	64.9K	178K	442K	2.49M
12.7	33.2	82.5	232	562	1.54K	3.90K	9.76K	26.7K	66.5K	180K	453K	2.94M
13.0	34.0	84.5	237	576	1.58K	3.92K	10.0K	27.0K	68.0K	182K	464K	3.01M
13.3	34.8	88.7	240	590	1.60K	4.02K	10.2K	27.4K	68.1K	187K	470K	4.70M
13.7	35.7	90.9	243	604	1.62K	4.12K	10.5K	28.0K	69.8K	191K	475K	4.75M
14.0	36.0	91.0	249	619	1.65K	4.22K	10.7K	28.7K	71.5K	196K	487K	10.0M
14.3	36.5	93.1	255	620	1.69K	4.30K	11.0K	29.4K	73.2K	200K	499K	
14.7	37.4	95.3	261	634	1.74K	4.32K	11.3K	30.0K	75.0K	205K	510K	
15.0	38.3	97.6	267	649	1.78K	4.42K	11.5K	30.1K	76.8K	210K	511K	
15.4	39.0	100	270	665	1.80K	4.53K	11.8K	30.9K	78.7K	215K	523K	
15.8	39.2	102	274	680	1.82K	4.64K	12.0K	31.6K	80.6K	220K	536K	
16.0	40.2	105	280	681	1.87K	4.70K	12.1K	32.4K	82.0K	221K	549K	
16.2	41.2	107	287	698	1.91K	4.75K	12.4K	33.0K	82.5K	226K	560K	
16.5	42.2	110	294	715	1.96K	4.87K	12.7K	33.2K	84.5K	232K	562K	
16.9	43.0	113	300	732	2.00K	4.99K	13.0K	34.0K	86.6K	237K	576K	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
2.10 ~ 5.23Ω	311-(Value)HCT-ND	.77	2.07	4.76	—	—	9C06031AxxxxFGHFT
10.2 ~ 1.20MΩ	311-(Value)HCT-ND	.77	2.07	4.76	—	—	9C06031AxxxxFKHFT
RoHS Compliant							
1.00 ~ 10.0MΩ	311-(Value)HRCT-ND	.77	2.07	4.76	5,000	4.80/M	RC0603FR-07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 0603 Series 1% Thick Film Chip Resistor Kits - 1/10 Watt — RoHS Compliant

PHH1-KIT-ND 50 each of values 1.00Ω ~ 7.50Ω 22 values (1,100 total pieces)................... **$19.95**

PHH2-KIT-ND 50 each of values 10.0Ω ~ 97.6Ω 113 values (5,650 total pieces)................. **$79.95**

PHH3-KIT-ND 50 each of values 100Ω ~ 976Ω 114 values (5,700 total pieces)................. **$79.95**

PHH4-KIT-ND 50 each of values 1.00KΩ ~ 9.76KΩ 114 values (5,700 total pieces)...................... **$79.95**

PHH5-KIT-ND 50 each of values 10.0KΩ ~ 97.6KΩ 114 values (5,700 total pieces)...................... **$79.95**

PHH6-KIT-ND 50 each of values 100KΩ ~ 1.00MΩ 115 values (5,750 total pieces)...................... **$79.95**

1%, 1/16 Watt — 0402 Series

Resistor Values

1.00	36.0	150	470	1.20K	3.30K	6.49K	11.0K	18.0K	30.1K	47.0K	68.0K	110K	226K	470K
1.50	39.0	160	499	1.21K	3.74K	6.80K	11.3K	19.1K	33.0K	47.5K	78.7K	120K	240K	499K
2.20	49.9	180	510	1.50K	3.90K	7.50K	11.5K	20.0K	35.7K	49.9K	80.6K	121K	249K	510K
3.30	51.0	220	511	1.80K	3.92K	7.87K	12.0K	21.0K	36.0K	51.0K	82.0K	124K	261K	560K
4.70	56.0	280	560	1.82K	4.30K	8.06K	12.1K	22.0K	39.0K	51.1K	82.5K	127K	270K	562K
10.0	62.0	300	620	1.96K	4.64K	8.20K	13.0K	22.1K	39.2K	53.6K	88.7K	150K	300K	620K
22.0	68.0	301	680	2.20K	5.10K	8.87K	14.0K	24.9K	40.2K	56.0K	90.9K	180K	301K	649K
24.9	68.1	330	715	2.21K	5.36K	9.10K	15.0K	26.1K	42.2K	60.4K	91.0K	187K	332K	768K
26.1	75.0	332	910	2.40K	5.49K	9.53K	16.0K	27.0K	43.0K	61.9K	95.3K	200K	360K	1.00M
28.0	100	430	1.00K	2.70K	5.62K	10.0K	16.2K	28.0K	45.3K	62.0K	97.6K	210K	430K	3.30M
33.0	120	464	1.10K	3.01K	6.20K	10.7K	17.4K	30.0K	46.4K	64.9K	100K	220K	442K	3.60M

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
26.1 ~ 768KΩ	311-(Value)LCT-ND	.94	2.52	5.78	10,000	7.56/M	9C04021AxxxxFLHF3
RoHS Compliant							
1.00 ~ 3.60MΩ	311-(Value)LRCT-ND	.94	2.52	5.78	10,000	7.56/M	RC0402FR-07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 0402 Series 1% Thick Film Chip Resistor Kits - 1/16 Watt — RoHS Compliant

PHL1-KIT-ND 50 each of values 1.00Ω ~ 75.0Ω 17 values (850 total pieces)...................... **$20.95**

PHL2-KIT-ND 50 each of values 100Ω ~ 910Ω 22 values (1,100 total pieces).................... **$25.95**

PHL3-KIT-ND 50 each of values 1.00KΩ ~ 9.53KΩ 33 values (1,650 total pieces).................... **$35.95**

PHL4-KIT-ND 50 each of values 10.0KΩ ~ 97.6KΩ 56 values (2,800 total pieces).................... **$59.95**

PHL5-KIT-ND 50 each of values 100KΩ ~ 1.00MΩ 32 values (1,600 total pieces).................... **$39.95**

1%, 1/8 Watt — 0805 Series

Resistor Values

1.00	3.01	8.66	24.9	63.4	180	470	1.27K	3.48K	9.09K	25.5K	64.9K	182K	475K	1.37M	4.22M
1.02	3.09	8.87	25.5	64.9	182	475	1.30K	3.57K	9.10K	26.1K	66.5K	187K	487K	1.40M	4.32M
1.05	3.16	9.09	26.1	66.5	187	487	1.33K	3.60K	9.31K	26.7K	68.0K	191K	499K	1.43M	4.42M
1.07	3.24	9.31	26.7	68.0	191	499	1.37K	3.65K	9.53K	27.0K	68.1K	196K	510K	1.47M	4.53M
1.10	3.32	9.53	27.0	68.1	196	510	1.40K	3.74K	9.76K	27.4K	69.8K	200K	511K	1.50M	4.64M
1.13	3.40	9.76	27.4	69.8	200	511	1.43K	3.83K	10.0K	28.0K	71.5K	205K	523K	1.54M	4.70M
1.15	3.48	10.0	28.0	71.5	205	523	1.47K	3.90K	10.2K	28.7K	73.2K	210K	536K	1.58M	4.75M
1.18	3.57	10.2	28.7	73.2	210	536	1.50K	3.92K	10.5K	29.4K	75.0K	215K	549K	1.62M	4.87M
1.21	3.65	10.5	29.4	75.0	215	549	1.54K	4.02K	10.7K	30.0K	76.8K	220K	560K	1.65M	4.99M
1.24	3.74	10.7	30.0	76.8	220	560	1.58K	4.12K	11.0K	30.1K	78.7K	221K	562K	1.69M	5.11M
1.27	3.83	11.0	30.1	78.7	221	562	1.60K	4.22K	11.3K	30.9K	80.6K	226K	576K	1.74M	5.23M
1.30	3.90	11.3	30.9	80.6	226	576	1.62K	4.30K	11.5K	31.6K	82.0K	232K	590K	1.80M	5.36M
1.33	3.92	11.5	31.6	82.0	232	590	1.65K	4.32K	11.8K	32.4K	82.5K	237K	604K	1.82M	5.49M
1.37	4.02	11.8	32.4	82.5	237	604	1.69K	4.42K	12.0K	33.0K	84.5K	240K	619K	1.87M	5.62M
1.40	4.12	12.0	33.0	84.5	240	619	1.74K	4.53K	12.1K	33.2K	86.6K	243K	620K	1.91M	5.76M
1.43	4.22	12.1	33.2	86.6	243	620	1.78K	4.64K	12.4K	34.0K	88.7K	249K	634K	1.96M	5.90M
1.47	4.32	12.4	34.0	88.7	249	634	1.80K	4.70K	12.7K	34.8K	90.9K	255K	649K	2.00M	6.04M
1.50	4.42	12.7	34.8	90.9	255	649	1.82K	4.75K	13.0K	35.7K	91.0K	261K	665K	2.05M	6.19M
1.54	4.53	13.0	35.7	91.0	261	665	1.87K	4.87K	13.3K	36.0K	93.1K	267K	680K	2.10M	6.34M
1.58	4.64	13.3	36.0	93.1	267	680	1.91K	4.99K	13.7K	36.5K	95.3K	270K	681K	2.15M	6.49M
1.62	4.70	13.7	36.5	95.3	270	681	1.96K	5.10K	14.0K	37.4K	97.6K	274K	698K	2.20M	6.65M
1.65	4.75	14.0	37.4	97.6	274	698	2.00K	5.11K	14.3K	38.3K	100K	280K	715K	2.21M	6.81M
1.69	4.87	14.3	38.3	100	280	715	2.05K	5.23K	14.7K	39.0K	102K	287K	732K	2.26M	6.98M
1.74	4.99	14.7	39.0	102	287	732	2.10K	5.36K	15.0K	39.2K	105K	294K	750K	2.32M	7.15M
1.78	5.11	15.0	39.2	105	294	750	2.15K	5.49K	15.4K	40.2K	107K	300K	768K	2.37M	7.32M
1.80	5.23	15.4	40.2	107	300	768	2.20K	5.60K	15.8K	41.2K	110K	301K	787K	2.43M	7.50M
1.82	5.36	15.8	41.2	110	301	787	2.21K	5.62K	16.0K	42.2K	113K	309K	806K	2.49M	7.68M
1.87	5.49	16.0	42.2	113	309	806	2.26K	5.76K	16.2K	43.0K	115K	316K	820K	2.55M	7.87M
1.91	5.60	16.2	43.0	115	316	820	2.32K	5.90K	16.5K	43.2K	118K	324K	825K	2.61M	8.06M
1.96	5.62	16.5	43.2	118	324	825	2.37K	6.04K	16.9K	44.2K	120K	330K	845K	2.67M	8.25M
2.00	5.76	16.9	44.2	120	330	845	2.40K	6.19K	17.4K	45.3K	121K	332K	866K	2.74M	8.45M
2.05	5.90	17.4	45.3	121	332	866	2.43K	6.20K	17.8K	46.4K	124K	340K	887K	2.80M	8.66M
2.10	6.04	17.8	46.4	124	340	887	2.49K	6.34K	18.0K	47.0K	127K	348K	909K	2.87M	8.87M
2.15	6.19	18.0	47.0	127	348	909	2.55K	6.49K	18.2K	47.5K	130K	357K	931K	2.94M	9.09M
2.20	6.20	18.2	47.5	130	357	910	2.61K	6.65K	18.7K	48.7K	133K	360K	953K	3.01M	9.31M
2.21	6.34	18.7	48.7	133	360	931	2.67K	6.80K	19.1K	49.9K	137K	365K	976K	3.09M	9.53M
2.26	6.49	19.1	49.9	137	365	953	2.70K	6.81K	19.6K	51.0K	140K	374K	1.00M	3.16M	9.76M
2.32	6.65	19.6	51.0	140	374	976	2.74K	6.98K	20.0K	51.1K	143K	383K	1.02M	3.24M	10.0M
2.37	6.80	20.0	51.1	143	383	1.00K	2.80K	7.15K	20.5K	52.3K	147K	390K	1.05M	3.30M	
2.43	6.81	20.5	52.3	147	390	1.02K	2.87K	7.32K	21.0K	53.6K	150K	392K	1.10M	3.32M	
2.49	6.98	21.0	53.6	150	392	1.05K	2.94K	7.50K	21.5K	54.9K	154K	402K	1.13M	3.40M	
2.55	7.15	21.5	54.9	154	402	1.07K	3.00K	7.68K	22.0K	56.0K	158K	412K	1.15M	3.48M	
2.61	7.32	22.0	56.0	158	412	1.10K	3.01K	7.87K	22.1K	56.2K	160K	422K	1.18M	3.57M	
2.67	7.50	22.1	56.2	160	422	1.13K	3.09K	8.06K	22.6K	57.6K	162K	430K	1.20M	3.65M	
2.74	7.68	22.6	57.6	162	430	1.15K	3.16K	8.20K	23.2K	59.0K	165K	432K	1.21M	3.74M	
2.80	7.87	23.2	59.0	165	432	1.18K	3.24K	8.25K	23.7K	60.4K	169K	442K	1.24M	3.83M	
2.87	8.06	23.7	60.4	169	442	1.20K	3.30K	8.45K	24.0K	61.9K	174K	453K	1.27M	3.92M	
2.94	8.25	24.0	61.9	174	453	1.21K	3.32K	8.66K	24.3K	62.0K	178K	464K	1.30M	4.02M	
3.00	8.45	24.3	62.0	178	464	1.24K	3.40K	8.87K	24.9K	63.4K	180K	470K	1.33M	4.12M	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
1.02 ~ 9.76Ω	311-(Value)CCT-ND	.80	2.15	4.93	—	—	9C08052AxxxxFGHFT
10.2 ~ 9.76MΩ	311-(Value)CCT-ND	.80	2.15	4.93	5,000	5.40/M	9C08052AxxxxxFKHFT
RoHS Compliant							
1.00 ~ 10.0MΩ	311-(Value)CRCT-ND	.80	2.15	4.93	5,000	5.40/M	RC0805FR-07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 0805 Series 1% Thick Film Chip Resistor Kits - 1/8 Watt — RoHS Compliant

PHC1A-KIT-ND 50 each of values 1.00Ω ~ 9.76Ω 104 values (5,200 total pieces)................. **$79.95**

PHC1-KIT-ND 200 each of values 1.00Ω ~ 9.76Ω 104 values (20,800 total pieces)............... **$169.95**

PHC2A-KIT-ND 50 each of values 10.0Ω ~ 97.6Ω 114 values (5,700 total pieces)................. **$79.95**

PHC2-KIT-ND 200 each of values 10.0Ω ~ 97.6Ω 114 values (22,800 total pieces)............... **$169.95**

PHC3A-KIT-ND 50 each of values 100Ω ~ 976Ω 114 values (5,700 total pieces)................. **$79.95**

PHC3-KIT-ND 200 each of values 100Ω ~ 976Ω 114 values (22,800 total pieces)............... **$169.95**

PHC4A-KIT-ND 50 each of values 1.00KΩ ~ 9.76KΩ 114 values (5,700 total pieces)...................... **$79.95**

PHC4-KIT-ND 200 each of values 1.00KΩ ~ 9.76KΩ 114 values (22,800 total pieces)................... **$169.95**

PHC5A-KIT-ND 50 each of values 10.0KΩ ~ 97.6KΩ 113 values (5,650 total pieces)...................... **$79.95**

PHC5-KIT-ND 200 each of values 10.0KΩ ~ 97.6KΩ 113 values (22,600 total pieces)........................... **$169.95**

PHC6A-KIT-ND 50 each of values 100KΩ ~ 1.00MΩ 115 values (5,750 total pieces)...................... **$79.95**

PHC6-KIT-ND 200 each of values 100KΩ ~ 1.00MΩ 115 values (23,000 total pieces)................... **$169.95**

(Continued)

1%, 1/4 Watt — 1206 Series

Resistor Values

1.00	3.09	8.87	27.4	78.7	243	681	2.20K	6.19K	19.1K	56.0K	174K	499K	1.54M	4.42M
1.02	3.16	9.09	28.0	80.6	249	698	2.21K	6.20K	19.6K	56.2K	178K	510K	1.58M	4.53M
1.05	3.24	9.10	28.7	82.0	255	715	2.26K	6.34K	20.0K	57.6K	180K	511K	1.60M	4.64M
1.07	3.30	9.31	29.4	82.5	261	732	2.32K	6.49K	20.5K	59.0K	182K	523K	1.62M	4.70M
1.10	3.32	9.53	30.0	84.5	267	750	2.37K	6.65K	21.0K	60.4K	187K	536K	1.65M	4.75M
1.13	3.40	9.76	30.1	86.6	270	768	2.40K	6.80K	21.5K	61.9K	191K	549K	1.69M	4.87M
1.15	3.48	10.0	30.9	88.7	274	787	2.43K	6.81K	22.0K	62.0K	196K	560K	1.74M	4.99M
1.18	3.57	10.2	31.6	90.9	280	806	2.49K	6.98K	22.1K	63.4K	200K	562K	1.78M	5.10M
1.20	3.60	10.5	32.4	91.0	287	820	2.55K	7.15K	22.6K	64.9K	205K	576K	1.80M	5.11M
1.21	3.65	10.7	33.0	93.1	294	825	2.61K	7.32K	23.2K	66.5K	210K	590K	1.82M	5.23M
1.24	3.74	11.0	33.2	95.3	300	845	2.67K	7.50K	23.7K	68.0K	215K	604K	1.87M	5.36M
1.27	3.83	11.3	34.0	97.6	301	866	2.70K	7.68K	24.0K	68.1K	220K	619K	1.91M	5.49M
1.30	3.90	11.5	34.8	100	309	887	2.74K	7.87K	24.3K	69.8K	221K	620K	1.96M	5.60M
1.33	3.92	11.8	35.7	102	316	909	2.80K	8.06K	24.9K	71.5K	226K	634K	2.00M	5.62M
1.37	4.02	12.0	36.0	105	324	910	2.87K	8.20K	25.5K	73.2K	232K	649K	2.05M	5.76M
1.40	4.12	12.1	36.5	107	330	931	2.94K	8.25K	26.1K	75.0K	237K	665K	2.10M	5.90M
1.43	4.22	12.4	37.4	110	332	953	3.00K	8.45K	26.7K	76.8K	240K	680K	2.15M	6.04M
1.47	4.30	12.7	38.3	113	340	976	3.01K	8.66K	27.0K	78.7K	243K	681K	2.20M	6.19M
1.50	4.32	13.0	39.0	115	348	1.00K	3.09K	8.87K	28.0K	80.6K	249K	698K	2.21M	6.20M
1.54	4.42	13.3	39.2	118	357	1.02K	3.16K	9.09K	28.7K	82.0K	255K	715K	2.26M	6.34M
1.58	4.53	13.7	40.2	120	360	1.05K	3.24K	9.10K	29.4K	82.5K	261K	732K	2.32M	6.49M
1.60	4.64	14.0	41.2	121	365	1.07K	3.30K	9.31K	30.0K	84.5K	267K	750K	2.37M	6.65M
1.62	4.70	14.3	42.2	124	374	1.10K	3.32K	9.53K	30.1K	86.6K	270K	768K	2.40M	6.80M
1.65	4.75	14.7	43.0	127	383	1.13K	3.40K	9.76K	30.9K	88.7K	274K	787K	2.43M	6.81M
1.69	4.87	15.0	43.2	130	390	1.15K	3.48K	10.0K	31.6K	90.9K	280K	806K	2.49M	6.98M
1.74	4.99	15.4	44.2	133	392	1.18K	3.57K	10.2K	32.4K	91.0K	287K	820K	2.55M	7.15M
1.78	5.10	15.8	45.3	137	402	1.20K	3.60K	10.5K	33.0K	93.1K	294K	825K	2.61M	7.32M
1.80	5.11	16.0	46.4	140	412	1.21K	3.65K	10.7K	33.2K	95.3K	300K	845K	2.67M	7.50M
1.82	5.23	16.2	47.0	143	422	1.24K	3.74K	11.0K	34.0K	97.6K	301K	866K	2.70M	7.68M
1.87	5.36	16.5	47.5	147	430	1.27K	3.83K	11.3K	34.8K	100K	309K	887K	2.74M	7.87M
1.91	5.49	16.9	48.7	150	432	1.30K	3.90K	11.5K	35.7K	102K	316K	909K	2.80M	8.06M
1.96	5.60	17.4	49.9	154	442	1.33K	3.92K	11.8K	36.0K	105K	324K	910K	2.87M	8.20M
2.00	5.62	17.8	51.0	158	453	1.37K	4.02K	12.0K	36.5K	107K	330K	931K	2.94M	8.25M
2.05	5.76	18.0	51.1	160	464	1.40K	4.12K	12.1K	37.4K	110K	332K	953K	3.00M	8.45M
2.10	5.90	18.2	52.3	162	470	1.43K	4.22K	12.4K	38.3K	113K	340K	976K	3.01M	8.66M
2.15	6.04	18.7	53.6	165	475	1.47K	4.30K	12.7K	39.0K	115K	348K	1.00M	3.09M	8.87M
2.20	6.19	19.1	54.9	169	487	1.50K	4.32K	13.0K	39.2K	118K	357K	1.02M	3.16M	9.09M
2.21	6.20	19.6	56.0	174	499	1.54K	4.42K	13.3K	40.2K	120K	360K	1.05M	3.24M	9.10M
2.26	6.34	20.0	56.2	178	510	1.58K	4.53K	13.7K	41.2K	121K	365K	1.07M	3.30M	9.31M
2.32	6.49	20.5	57.6	180	511	1.60K	4.64K	14.0K	42.2K	124K	374K	1.10M	3.32M	9.53M
2.37	6.65	21.0	59.0	182	523	1.62K	4.70K	14.3K	43.0K	127K	383K	1.13M	3.40M	9.76M
2.40	6.80	21.5	60.4	187	536	1.65K	4.75K	14.7K	43.2K	130K	390K	1.15M	3.48M	10.0M
2.43	6.81	22.0	61.9	191	549	1.69K	4.87K	15.0K	44.2K	133K	392K	1.18M	3.57M	
2.49	6.98	22.1	62.0	196	560	1.74K	4.99K	15.4K	45.3K	137K	402K	1.20M	3.60M	
2.55	7.15	22.6	63.4	200	562	1.78K	5.10K	15.8K	46.4K	140K	412K	1.21M	3.65M	
2.61	7.32	23.2	64.9	205	576	1.80K	5.11K	16.0K	47.0K	143K	422K	1.24M	3.74M	
2.67	7.50	23.7	66.5	210	590	1.82K	5.23K	16.2K	47.5K	147K	430K	1.27M	3.83M	
2.70	7.68	24.0	68.0	215	604	1.87K	5.36K	16.5K	48.7K	150K	432K	1.30M	3.90M	
2.74	7.87	24.3	68.1	220	619	1.91K	5.49K	16.9K	49.9K	154K	442K	1.33M	3.92M	
2.80	8.06	24.9	69.8	221	620	1.96K	5.60K	17.4K	51.0K	158K	453K	1.37M	4.02M	
2.87	8.20	25.5	71.5	226	634	2.00K	5.62K	17.8K	51.1K	160K	464K	1.40M	4.12M	
2.94	8.25	26.1	73.2	232	649	2.05K	5.76K	18.0K	52.3K	162K	470K	1.43M	4.22M	
3.00	8.45	26.7	75.0	237	665	2.10K	5.90K	18.2K	53.6K	165K	475K	1.47M	4.30M	
3.01	8.66	27.0	76.8	240	680	2.15K	6.04K	18.7K	54.9K	169K	487K	1.50M	4.32M	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
1.02 - 9.76Ω	311-(Value)FCT-ND	.88	2.37	5.44	5,000	7.20/M	9C12063AxxxxFGHFT
10.2 - 9.76MΩ	311-(Value)FCT-ND	.88	2.37	5.44	—	—	9C12063AxxxxFKHFT
RoHS Compliant							
1.00 - 10.0MΩ	311-(Value)FRCT-ND	.88	2.37	5.44	5,000	7.20/M	RC1206FR-07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 1206 Series
1% Thick Film Chip Resistor Kits - 1/4 Watt — RoHS Compliant

PHF1A-KIT-ND 50 each of values 1.00Ω ~ 9.76Ω 114 values (5,700 total pieces) **$125.95**

PHF1-KIT-ND 200 each of values 1.00Ω ~ 9.76Ω 114 values (22,800 total pieces).............. **$239.95**

PHF2A-KIT-ND 50 each of values 10.0Ω ~ 97.6Ω 114 values (5,700 total pieces) **$125.95**

PHF2-KIT-ND 200 each of values 10.0Ω ~ 97.6Ω 114 values (22,800 total pieces) **$239.95**

PHF3A-KIT-ND 50 each of values 100Ω ~ 976Ω 114 values (5,700 total pieces) **$125.95**

PHF3-KIT-ND 200 each of values 100Ω ~ 976Ω 114 values (22,800 total pieces) **$239.95**

PHF4A-KIT-ND 50 each of values 1.00KΩ ~ 9.76KΩ 114 values (5,700 total pieces)...................... **$125.95**

PHF4-KIT-ND 200 each of values 1.00KΩ ~ 9.76KΩ 114 values (22,800 total pieces) **$239.95**

PHF5A-KIT-ND 50 each of values 10.0KΩ ~ 97.6KΩ 113 values (5,650 total pieces)...................... **$125.95**

PHF5-KIT-ND 200 each of values 10.0KΩ ~ 97.6KΩ 113 values (22,600 total pieces).................... **$239.95**

PHF6A-KIT-ND 50 each of values 100KΩ ~ 1.00MΩ 115 values (5,750 total pieces)...................... **$125.95**

PHF6-KIT-ND 200 each of values 100KΩ ~ 1.00MΩ 115 values (23,000 total pieces).................... **$239.95**

5%, 1/16 Watt — 0402 Series

Resistor Values

0.0	3.9	12	33	68	180	360	680	2.0K	3.9K	7.5K	22K	47K	120K	330K	3.0M
1.0	4.3	15	36	75	200	390	820	2.2K	4.3K	8.2K	24K	56K	150K	430K	3.3M
1.1	4.7	18	39	82	220	430	910	2.4K	4.7K	10K	27K	62K	180K	470K	
2.0	5.1	20	43	91	240	470	1.0K	2.7K	5.1K	11K	30K	68K	200K	560K	
2.2	5.6	22	47	100	270	510	1.2K	3.0K	5.6K	12K	33K	82K	220K	680K	
3.0	8.2	27	51	150	300	560	1.5K	3.3K	6.2K	15K	39K	100K	270K	1.0M	
3.3	10	30	56	160	330	620	1.8K	3.6K	6.8K	18K	43K	110K	300K	1.5M	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
1.0 ~ 3.3MΩ	311-(Value)JCT-ND	.80	2.15	4.93	10,000	4.86/M	9C04021AxxxxJLHF3
RoHS Compliant							
0.0 ~ 3.3MΩ	311-(Value)JRCT-ND	.80	2.15	4.93	10,000	4.86/M	RC0402JR-07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 0402 Series
5% Thick Film Chip Resistor Kits - 1/16 Watt — RoHS Compliant

PHJ1A-KIT-ND 50 each of every other value from 1.0, 2.0, 3.0, 3.9, etc. ~ 1.0MΩ 52 values (2,600 total pieces)... **$45.95**

PHJ1-KIT-ND 200 each of every other value from 1.0, 2.0, 3.0, 3.9, etc. ~ 1.0MΩ 52 values (10,400 total pieces)... **$85.95**

PHJ2A-KIT-ND 50 each of every other value from 1.1, 2.2, 3.3, 4.3, etc. ~ 680KΩ 51 values (2,550 total pieces)... **$45.95**

PHJ2-KIT-ND 200 each of every other value from 1.1, 2.2, 3.3, 4.3, etc. ~ 680KΩ 51 values (10,200 total pieces)... **$85.95**

5%, 1/10 Watt — 0603 Series

Resistor Values

0.0	3.3	10	33	100	330	1.0K	3.3K	10K	33K	100K	330K	1.0M	3.3M
1.0	3.6	11	36	110	360	1.1K	3.6K	11K	36K	110K	360K	1.1M	3.6M
1.1	3.9	12	39	120	390	1.2K	3.9K	12K	39K	120K	390K	1.2M	3.9M
1.2	4.3	13	43	130	430	1.3K	4.3K	13K	43K	130K	430K	1.3M	4.3M
1.3	4.7	15	47	150	470	1.5K	4.7K	15K	47K	150K	470K	1.5M	4.7M
1.5	5.1	16	51	160	510	1.6K	5.1K	16K	51K	160K	510K	1.6M	5.1M
1.6	5.6	18	56	180	560	1.8K	5.6K	18K	56K	180K	560K	1.8M	5.6M
1.8	6.2	20	62	200	620	2.0K	6.2K	20K	62K	200K	620K	2.0M	6.2M
2.2	6.8	22	68	220	680	2.2K	6.8K	22K	68K	220K	680K	2.2M	6.8M
2.4	7.5	24	75	240	750	2.4K	7.5K	24K	75K	240K	750K	2.4M	8.2M
2.7	8.2	27	82	270	820	2.7K	8.2K	27K	82K	270K	820K	2.7M	10M
3.0	9.1	30	91	300	910	3.0K	9.1K	30K	91K	300K	910K	3.0M	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
1.1 ~ 8.2MΩ	311-(Value)GCT-ND	.70	1.89	4.34	—	—	9C06031AxxxxJLHFT
RoHS Compliant							
0.0 ~ 10MΩ	311-(Value)GRCT-ND	.70	1.89	4.34	5,000	3.30/M	RC0603JR-07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 0603 Series
5% Thick Film Chip Resistor Kits - 1/10 Watt — RoHS Compliant

PHG1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. ~ 910KΩ 72 values (3,600 total pieces) **$49.95**

PHG1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. ~ 910KΩ 72 values (14,400 total pieces)............................. **$89.95**

PHG2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.2, etc. ~ 1.0MΩ 72 values (3,600 total pieces) **$49.95**

PHG2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.2, etc. ~ 1.0MΩ 72 values (14,400 total pieces)............................. **$89.95**

5%, 1/8 Watt — 0805 Series

Resistor Values

0.0	3.3	11	39	130	470	1.6K	5.6K	20K	68K	240K	820K	3.0M	10M
1.0	3.6	12	43	150	510	1.8K	6.2K	22K	75K	270K	910K	3.3M	
1.1	3.9	13	47	160	560	2.0K	6.8K	24K	82K	300K	1.0M	3.6M	
1.2	4.3	15	51	180	620	2.2K	7.5K	27K	91K	330K	1.1M	3.9M	
1.3	4.7	16	56	200	680	2.4K	8.2K	30K	100K	360K	1.2M	4.3M	
1.5	5.1	18	62	220	750	2.7K	9.1K	33K	110K	390K	1.3M	4.7M	
1.6	5.6	20	68	240	820	3.0K	10K	36K	120K	430K	1.5M	5.1M	
1.8	6.2	22	75	270	910	3.3K	11K	39K	130K	470K	1.6M	5.6M	
2.0	6.8	24	82	300	1.0K	3.6K	12K	43K	150K	510K	1.8M	6.2M	
2.2	7.5	27	91	330	1.1K	3.9K	13K	47K	160K	560K	2.0M	6.8M	
2.4	8.2	30	100	360	1.2K	4.3K	15K	51K	180K	620K	2.2M	7.5M	
2.7	9.1	33	110	390	1.3K	4.7K	16K	56K	200K	680K	2.4M	8.2M	
3.0	10	36	120	430	1.5K	5.1K	18K	62K	220K	750K	2.7M	9.1M	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
1.1 - 9.1MΩ	311-(Value)ACT-ND	.76	2.04	4.68	5,000	4.50/M	9C08052AxxxxJLHFT
RoHS Compliant							
0.0 - 10MΩ	311-(Value)ARCT-ND	.76	2.04	4.68	5,000	4.50/M	RC0805JR-07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 0805 Series
5% Thick Film Chip Resistor Kits - 1/8 Watt — RoHS Compliant

PHA1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, ~ 1.0MΩ 73 values (3,650 total pieces)... **$59.95**

PHA1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, ~ 1.0MΩ 73 values (14,600 total pieces)... **$109.95**

PHA2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.0, ~ 910KΩ 72 values (3,600 total pieces)... **$59.95**

PHA2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.0, ~ 910KΩ 72 values (14,400 total pieces)... **$109.95**

5%, 1/4 Watt — 1206 Series

Resistor Values

0.0	3.3	11	39	150	510	1.8K	6.2K	22K	75K	270K	910K	3.3M
1.0	3.6	12	43	160	560	2.0K	6.8K	24K	82K	300K	1.0M	3.6M
1.1	3.9	13	51	180	620	2.2K	7.5K	27K	91K	330K	1.1M	3.9M
1.2	4.3	15	56	200	680	2.4K	8.2K	30K	100K	360K	1.2M	4.3M
1.3	4.7	16	62	220	750	2.7K	9.1K	33K	110K	390K	1.3M	4.7M
1.5	5.1	18	68	240	820	3.0K	10K	36K	120K	430K	1.5M	5.1M
1.6	5.6	20	75	270	910	3.3K	11K	39K	130K	470K	1.6M	5.6M
1.8	6.2	22	82	300	1.0K	3.6K	12K	43K	150K	510K	1.8M	6.2M
2.0	6.8	24	91	330	1.1K	3.9K	13K	47K	160K	560K	2.0M	6.8M
2.2	7.5	27	100	360	1.2K	4.3K	15K	51K	180K	620K	2.2M	7.5M
2.4	8.2	30	110	390	1.3K	4.7K	16K	56K	200K	680K	2.4M	8.2M
2.7	9.1	33	120	430	1.5K	5.1K	18K	62K	220K	750K	2.7M	9.1M
3.0	10	36	130	470	1.6K	5.6K	20K	68K	240K	820K	3.0M	10M

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel◊		Yageo Part No.
		10	50	200	Qty.	Price	
1.1 ~ 9.1MΩ	311-(Value)ECT-ND	.78	2.11	4.85	—	—	9C12063AxxxxJLHFT
RoHS Compliant							
0.0 ~ 10MΩ	311-(Value)ERCT-ND	.78	2.11	4.85	5,000	5.10/M	RC1206JR-07xxxxL

◊ For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 1206 Series
5% Thick Film Chip Resistor Kits - 1/4 Watt — RoHS Compliant

PHE1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. ~ 910KΩ 72 values (3,600 total pieces)... **$59.95**

PHE1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. ~ 910KΩ 72 values (14,400 total pieces).................................... **$109.95**

PHE2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.0, etc. ~ 1.0MΩ 72 values (3,600 total pieces)... **$59.95**

PHE2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.0, etc. ~ 1.0MΩ 72 values (14,400 total pieces)... **$109.95**

Panasonic® 0201, 0402, 0603, 0805, 1206, 1210, 2010 and 2512
1% Precision Thick Film Chip Resistors
Surface Mount Available in 1/20, 1/16, 1/10, 1/8, 1/4, 1/2 and 1 Watt

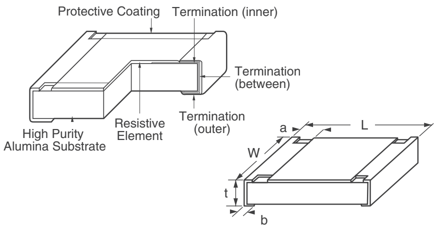

Size	Power Rating at 70°	Maximum RCWV§	Maximum Overload Voltage	Dimensions L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
0201	1/20W	15V	30V	0.60	0.30	0.10	0.15	0.23	10 ~ 1MΩ±200ppm/°C	ERJ-1GEFxxxxC
0402	1/16W	50V	100V	1.00	0.50	0.20	0.25	0.35	10 ~ 1MΩ±100ppm/°C	ERJ-2RKFxxxxX
0603	1/10W	50V	100V	1.60	0.80	0.30	0.30	0.45	10 ~ 1MΩ±100ppm/°C	ERJ-3EKFxxxxV
0805	1/8W	150V	200V	2.00	1.25	0.40	0.40	0.60	10 ~ 2.2MΩ±100ppm/°C	ERJ-6ENFxxxxV
1206	1/4W	200V	400V	3.20	1.60	0.50	0.50	0.60		ERJ-8ENFxxxxV
1210	1/4W	200V	400V	3.20	2.50	0.50	0.50	0.60	10 ~ 1MΩ±100ppm/°C	ERJ-14NFxxxxU
2010	1/2W	200V	400V	5.00	2.50	0.60	0.60	0.60		ERJ-12SFxxxxU
2512	1W	200V	400V	6.40	3.20	0.65	0.60	0.60		ERJ-1TNFxxxxU

§ Rated Continuous Working Voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Values}}$, or max. RCWV listed above, whichever is less.

0201, 0402, 0603, 0805, 1206 and 1210 Series Standard Resistor Values

10.0	24.9	61.9	154	383	953	2.37K	5.90K	14.7K	36.5K	90.9K	226K	562K
10.2	25.5	63.4	158	392	976	2.43K	6.04K	15.0K	37.4K	93.1K	232K	576K
10.5	26.1	64.9	162	402	1.00K	2.49K	6.19K	15.4K	38.3K	95.3K	237K	590K
10.7	26.7	66.5	165	412	1.02K	2.55K	6.34K	15.8K	39.2K	97.6K	243K	604K
11.0	27.4	68.1	169	422	1.05K	2.61K	6.49K	16.2K	40.2K	100K	249K	619K
11.3	28.0	69.8	174	432	1.07K	2.67K	6.65K	16.5K	41.2K	102K	255K	634K
11.5	28.7	71.5	178	442	1.10K	2.74K	6.81K	16.9K	42.2K	105K	261K	649K
11.8	29.4	73.2	182	453	1.13K	2.80K	6.98K	17.4K	43.2K	107K	267K	665K
12.1	30.1	75.0	187	464	1.15K	2.87K	7.15K	17.8K	44.2K	110K	274K	681K
12.4	30.9	76.8	191	475	1.18K	2.94K	7.32K	18.2K	45.3K	113K	280K	698K
12.7	31.6	78.7	196	487	1.21K	3.01K	7.50K	18.7K	46.4K	115K	287K	715K
13.0	32.4	80.6	200	499	1.24K	3.09K	7.68K	19.1K	47.5K	118K	294K	732K
13.3	33.2	82.5	205	511	1.27K	3.16K	7.87K	19.6K	48.7K	121K	301K	750K
13.7	34.0	84.5	210	523	1.30K	3.24K	8.06K	20.0K	49.9K	124K	309K	768K
14.0	34.8	86.6	215	536	1.33K	3.32K	8.25K	20.5K	51.1K	127K	316K	787K
14.3	35.7	88.7	221	549	1.37K	3.40K	8.45K	21.0K	52.3K	130K	324K	806K
14.7	36.5	90.9	226	562	1.40K	3.48K	8.66K	21.5K	53.6K	133K	332K	825K
15.0	37.4	93.1	232	576	1.43K	3.57K	8.87K	22.1K	54.9K	137K	340K	845K
15.4	38.3	95.3	237	590	1.47K	3.65K	9.09K	22.6K	56.2K	140K	348K	866K
15.8	39.2	97.6	243	604	1.50K	3.74K	9.31K	23.2K	57.6K	143K	357K	887K
16.2	40.2	100	249	619	1.54K	3.83K	9.53K	23.7K	59.0K	147K	365K	909K
16.5	41.2	102	255	634	1.58K	3.92K	9.76K	24.3K	60.4K	150K	374K	931K
16.9	42.2	105	261	649	1.62K	4.02K	10.0K	24.9K	61.9K	154K	383K	953K
17.4	43.2	107	267	665	1.65K	4.12K	10.2K	25.5K	63.4K	158K	392K	976K
17.8	44.2	110	274	681	1.69K	4.22K	10.5K	26.1K	64.9K	162K	402K	1.00M
18.2	45.3	113	280	698	1.74K	4.32K	10.7K	26.7K	66.5K	165K	412K	1.10M
18.7	46.4	115	287	715	1.78K	4.42K	11.0K	27.4K	68.1K	169K	422K	1.20M
19.1	47.5	118	294	732	1.82K	4.53K	11.3K	28.0K	69.8K	174K	432K	1.30M
19.6	48.7	121	301	750	1.87K	4.64K	11.5K	28.7K	71.5K	178K	442K	1.50M
20.0	49.9	124	309	768	1.91K	4.75K	11.8K	29.4K	73.2K	182K	453K	1.60M
20.5	51.1	127	316	787	1.96K	4.87K	12.1K	30.1K	75.0K	187K	464K	1.80M
21.0	52.3	130	324	806	2.00K	4.99K	12.4K	30.9K	76.8K	191K	475K	2.00M
21.5	53.6	133	332	825	2.05K	5.11K	12.7K	31.6K	78.7K	196K	487K	2.20M
22.1	54.9	137	340	845	2.10K	5.23K	13.0K	32.4K	80.6K	200K	499K	
22.6	56.2	140	348	866	2.15K	5.36K	13.3K	33.2K	82.5K	205K	511K	
23.2	57.6	143	357	887	2.21K	5.49K	13.7K	34.0K	84.5K	210K	523K	
23.7	59.0	147	365	909	2.26K	5.62K	14.0K	34.8K	86.6K	215K	536K	
24.3	60.4	150	374	931	2.32K	5.76K	14.3K	35.7K	88.7K	221K	549K	

Additional 0201, 0402, 0603, 0805 and 1206 Series Resistor Values

12.0◆	39.0◆	120◆	390◆	1.20K◆	3.90K◆	12.0K◆	39.0K◆	120K◆	390K◆
16.0◆	43.0◆	160◆	430◆	1.60K◆	4.30K◆	16.0K◆	43.0K◆	160K◆	430K◆
18.0◆	47.0◆	180◆	470◆	1.80K◆	4.70K◆	18.0K◆	47.0K◆	180K◆	470K◆
22.0◆	51.0◆	220◆	510◆	2.20K◆	5.10K◆	22.0K◆	51.0K◆	220K◆	510K◆
24.0◆	56.0◆	240◆	560◆	2.40K◆	5.60K◆	24.0K◆	56.0K◆	240K◆	560K◆
27.0◆	62.0◆	270◆	620◆	2.70K◆	6.20K◆	27.0K◆	62.0K◆	270K◆	620K◆
30.0◆	68.0◆	300◆	680◆	3.00K◆	6.80K◆	30.0K◆	68.0K◆	300K◆	680K◆
33.0◆	82.0◆	330◆	820◆	3.30K◆	8.20K◆	33.0K◆	82.0K◆	330K◆	820K◆
36.0◆	91.0◆	360◆	910◆	3.60K◆	9.10K◆	36.0K◆	91.0K◆	360K◆	910K◆

2010 Series Resistor Values

10.0	28.7	82.5	237	681	1.96K	5.62K	16.2K	46.4K	133K	383K
10.5	30.1	86.6	249	715	2.05K	5.90K	16.9K	48.7K	140K	402K
11.0	31.6	90.9	261	750	2.15K	6.19K	17.8K	51.1K	147K	422K
11.5	33.2	95.3	274	787	2.26K	6.49K	18.7K	53.6K	154K	442K
12.1	34.8	100	287	825	2.37K	6.81K	19.6K	56.2K	162K	464K
12.7	36.5	105	301	866	2.49K	7.15K	20.5K	59.0K	169K	487K
13.3	38.3	110	316	909	2.61K	7.50K	21.5K	61.9K	178K	511K
14.0	40.2	115	332	953	2.74K	7.87K	22.6K	64.9K	187K	536K
14.7	42.2	121	348	1.00K	2.87K	8.25K	23.7K	68.1K	196K	562K
15.4	44.2	127	365	1.05K	3.01K	8.66K	24.9K	71.5K	205K	590K
16.2	46.4	133	383	1.10K	3.16K	9.09K	26.1K	75.0K	215K	619K
16.9	48.7	140	402	1.15K	3.32K	9.53K	27.4K	78.7K	226K	649K
17.8	51.1	147	422	1.21K	3.48K	10.0K	28.7K	82.5K	237K	681K
18.7	53.6	154	442	1.27K	3.65K	10.5K	30.1K	86.6K	249K	715K
19.6	56.2	162	464	1.33K	3.83K	11.0K	31.6K	90.9K	261K	750K
20.5	59.0	169	487	1.40K	4.02K	11.5K	33.2K	95.3K	274K	787K
21.5	61.9	178	511	1.47K	4.22K	12.1K	34.8K	100K	287K	825K
22.6	64.9	187	536	1.54K	4.42K	12.7K	36.5K	105K	301K	866K
23.7	68.1	196	562	1.62K	4.64K	13.3K	38.3K	110K	316K	909K
24.9	71.5	205	590	1.69K	4.87K	14.0K	40.2K	115K	332K	953K
26.1	75.0	215	619	1.78K	5.11K	14.7K	42.2K	121K	348K	1.00M
27.4	78.7	226	649	1.87K	5.36K	15.4K	44.2K	127K	365K	

2512 Series Resistor Values

10.0	27.4	68.1	191	487	1.30K	3.48K	8.87K	24.3K	61.9K	169K	432K
10.5	28.7	71.5	200	510	1.37K	3.60K	9.10K	25.5K	63.4K	178K	453K
11.0	30.0	75.0	210	523	1.43K	3.74K	9.53K	26.7K	66.5K	182K	470K
11.5	30.9	78.7	220	549	1.50K	3.90K	10.0K	27.4K	68.1K	191K	487K
12.0	32.4	82.0	226	562	1.58K	4.02K	10.5K	28.7K	71.5K	200K	510K
12.4	33.2	84.5	237	590	1.62K	4.22K	11.0K	30.0K	75.0K	210K	523K
13.0	34.8	88.7	243	619	1.69K	4.32K	11.5K	30.9K	78.7K	220K	549K
13.7	36.0	91.0	255	634	1.78K	4.53K	12.0K	32.4K	82.0K	226K	562K
14.3	37.4	95.3	267	665	1.82K	4.70K	12.4K	33.2K	84.5K	237K	590K
15.0	39.0	100	274	681	1.91K	4.87K	13.0K	34.8K	88.7K	243K	619K
15.8	40.2	105	287	715	2.00K	5.10K	13.7K	36.0K	91.0K	255K	634K
16.2	42.2	110	300	750	2.10K	5.23K	14.3K	37.4K	95.3K	267K	665K
16.9	43.2	115	309	787	2.20K	5.49K	15.0K	39.0K	100K	274K	681K
17.8	45.3	120	324	820	2.26K	5.62K	15.8K	40.2K	105K	287K	715K
18.2	47.0	124	332	845	2.37K	5.90K	16.2K	42.2K	110K	300K	750K
19.1	48.7	130	348	887	2.43K	6.19K	16.9K	43.2K	115K	309K	787K
20.0	51.0	137	360	910	2.55K	6.34K	17.8K	45.3K	120K	324K	820K
21.0	52.3	143	374	953	2.67K	6.65K	18.2K	47.0K	124K	332K	845K
22.0	54.9	150	390	1.00K	2.74K	6.81K	19.1K	48.7K	130K	348K	887K
22.6	56.2	158	402	1.05K	2.87K	7.15K	20.0K	51.0K	137K	360K	910K
23.7	59.0	162	422	1.10K	3.00K	7.50K	21.0K	52.3K	143K	374K	953K
24.3	61.9	169	432	1.15K	3.09K	7.87K	22.0K	54.9K	150K	390K	1.00M
25.5	63.4	178	453	1.20K	3.24K	8.20K	22.6K	56.2K	158K	402K	
26.7	66.5	182	470	1.24K	3.32K	8.45K	23.7K	59.0K	162K	422K	

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.†	Reel Qty.	Tape and Reel Pricing 4,000	5,000	10,000	12,000	15,000	24,000	25,000	30,000	Panasonic Part No.
0201, 1/20W	10.0 ~ 1.00M	P(Value)ABCT-ND	1.10	2.96	6.80	23.20	P(Value)ABTR-ND	15,000	—	—	—	—	11.00/M	—	—	10.00/M	ERJ-1GEFxxxxC
0402, 1/16W	10.0 ~ 1.00M	P(Value)LCT-ND	.98	2.65	6.08	20.74	P(Value)LTR-ND	10,000	—	—	8.51/M	—	—	—	—	7.56/M	ERJ-2RKFxxxxX
0603, 1/10W	10.0 ~ 2.20M	P(Value)HCT-ND	.73	1.96	4.51	15.37	P(Value)HTR-ND	5,000	—	3.90/M	3.51/M	—	—	—	3.12/M	—	ERJ-3EKFxxxxV
0805, 1/8W	10.0 ~ 2.20M	P(Value)CCT-ND	.91	2.44	5.61	19.14	P(Value)CTR-ND	5,000	—	7.80/M	7.02/M	—	—	—	6.24/M	—	ERJ-6ENFxxxxV
1206, 1/4W	10.0 ~ 2.20M	P(Value)FCT-ND	1.17	3.15	7.23	24.65	P(Value)FTR-ND	5,000	—	13.50/M	12.15/M	—	—	—	10.80/M	—	ERJ-8ENFxxxxV
1210, 1/4W	10.0 ~ 1.00M	P(Value)AACT-ND	3.78	10.18	23.38	79.75	P(Value)AATR-ND	5,000	—	70.50/M	63.45/M	—	—	—	56.40/M	—	ERJ-14NFxxxxU
2010, 1/2W	10.0 ~ 1.00M	P(Value)ACCT-ND	6.88	18.50	42.50	145.00	P(Value)ACTR-ND	5,000	—	138.00/M	124.20/M	—	—	—	110.40/M	—	ERJ-12SFxxxxU
2512, 1W	10.0 ~ 1.00M	PT(Value)AFCT-ND	5.82	20.61	67.90	281.30	PT(Value)AFTR-ND	4,000	223.00/M	—	—	186.00/M	—	154.00/M	—	—	ERJ-1TNFxxxxU

† For complete part number, substitute the value from Resistor Values chart for (Value). ◆ ***RoHS Compliant***

Panasonic® 1% Chip Resistors

Digi-Key® Assortment Kits

Digi-Key® 0402 1% Chip Resistor Kits

RSM1L-ND	50 each of Values 10.0Ω ~ 97.6Ω	**$189.00**
RSM2L-ND	50 each of Values 100Ω ~ 976Ω	**$189.00**
RSM3L-ND	50 each of Values 1.00KΩ ~ 9.76KΩ	**$189.00**
RSM4L-ND	50 each of Values 10.0KΩ ~ 97.6KΩ	**$189.00**
RSM5L-ND	50 each of Values 100KΩ ~ 1.00MΩ	**$189.00**

Digi-Key® 0603 1% Chip Resistor Kits

RSM1H-ND	50 each of Values 10.0Ω ~ 97.6Ω	**$129.00**
RSM2H-ND	50 each of Values 100Ω ~ 976Ω	**$129.00**
RSM3H-ND	50 each of Values 1.00KΩ ~ 9.76KΩ	**$129.00**
RSM4H-ND	50 each of Values 10.0KΩ ~ 97.6KΩ	**$129.00**
RSM5H-ND	50 each of Values 100KΩ ~ 1.00MΩ	**$129.00**

Digi-Key® 0805 1% Chip Resistor Kits

RSM1CA-ND	50 each of Values 10.0Ω ~ 97.6Ω	**$119.95**
RSM1C-ND	200 each of Values 10.0Ω ~ 97.6Ω	**$299.00**
RSM2CA-ND	50 each of Values 100Ω ~ 976Ω	**$119.95**
RSM2C-ND	200 each of Values 100Ω ~ 976Ω	**$299.00**
RSM3CA-ND	50 each of Values 1.00KΩ ~ 9.76KΩ	**$119.95**
RSM3C-ND	200 each of Values 1.00KΩ ~ 9.76KΩ	**$299.00**
RSM4CA-ND	50 each of Values 10.0KΩ ~ 97.6KΩ	**$119.95**
RSM4C-ND	200 each of Values 10.0KΩ ~ 97.6KΩ	**$299.00**
RSM5CA-ND	50 each of Values 100KΩ ~ 1.00MΩ	**$119.95**
RSM5C-ND	200 each of Values 100KΩ ~ 1.00MΩ	**$299.00**

Digi-Key® 1206 1% Chip Resistor Kits

RSM1FA-ND	50 each of Values 10.0Ω ~ 97.6Ω	**$129.95**
RSM1F-ND	200 each of Values 10.0Ω ~ 97.6Ω	**$299.00**
RSM2FA-ND	50 each of Values 100Ω ~ 976Ω	**$129.95**
RSM2F-ND	200 each of Values 100Ω ~ 976Ω	**$299.00**
RSM3FA-ND	50 each of Values 1.00KΩ ~ 9.76KΩ	**$119.95**
RSM3F-ND	200 each of Values 1.00KΩ ~ 9.76KΩ	**$299.00**
RSM4FA-ND	50 each of Values 10.0KΩ ~ 97.6KΩ	**$129.95**
RSM4F-ND	200 each of Values 10.0KΩ ~ 97.6KΩ	**$299.00**
RSM5FA-ND	50 each of Values 100KΩ ~ 1.00MΩ	**$129.95**
RSM5F-ND	200 each of Values 100KΩ ~ 1.00MΩ	**$299.00**

Panasonic 01005, 0201, 0402, 0603, 0805, 1206, 1210, 2010 and 2512
Surface Mount 5% Thick Film Chip Resistors — 1/32, 1/20, 1/16, 1/10, 1/8, 1/4, 1/2 and 1 Watt

01005 Series Standard Resistor Values

10	680	47K
15	1.0K	68K
22	1.5K	100K
33	2.2K	150K
47	3.3K	220K
68	4.7K	330K
100	6.8K	470K
150	10K	680K
220	15K	1.0M
330	22K	
470	33K	

0201 Series Standard Resistor Values

10	82	680	5.6K	47K	390K
12	100	820	6.8K	56K	470K
15	120	1.0K	8.2K	68K	560K
18	150	1.2K	10K	82K	680K
22	180	1.5K	12K	100K	820K
27	220	1.8K	15K	120K	1.0M
33	270	2.2K	18K	150K	
39	330	2.7K	22K	180K	
47	390	3.3K	27K	220K	
56	470	3.9K	33K	270K	
68	560	4.7K	39K	330K	

0402, 0603, 0805, 1206, 1210, 2010 and 2512 Series Standard Resistor Values

1.0	3.0	8.2	24	68	200	560	1.6K	4.7K	13K	39K	110K	330K	910K	2.7M	7.5M
1.1	3.3	9.1	27	75	220	620	1.8K	5.1K	15K	43K	120K	360K	1.0M	3.0M	8.2M
1.2	3.6	10	30	82	240	680	2.0K	5.6K	16K	47K	130K	390K	1.1M	3.3M	9.1M
1.3	3.9	11	33	91	270	750	2.2K	6.2K	18K	51K	150K	430K	1.2M	3.6M	10M
1.5	4.3	12	36	100	300	820	2.4K	6.8K	20K	56K	160K	470K	1.3M	3.9M	12M‡
1.6	4.7	13	39	110	330	910	2.7K	7.5K	22K	62K	180K	510K	1.5M	4.3M	15M‡
1.8	5.1	15	43	120	360	1.0K	3.0K	8.2K	24K	68K	200K	560K	1.6M	4.7M	18M‡
2.0	5.6	16	47	130	390	1.1K	3.3K	9.1K	27K	75K	220K	620K	1.8M	5.1M	22M‡
2.2	6.2	18	51	150	430	1.2K	3.6K	10K	30K	82K	240K	680K	2.0M	5.6M	
2.4	6.8	20	56	160	470	1.3K	3.9K	11K	33K	91K	270K	750K	2.2M	6.2M	
2.7	7.5	22	62	180	510	1.5K	4.3K	12K	36K	100K	300K	820K	2.4M	6.8M	

‡ 12M, 15M, 18M and 22M are 10% Tolerance

Digi-Key® 1206, 1/4W, 5% Chip Resistor Assortments

CR1A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$79.95**

CR1-KIT-ND 200 ea. (same values as kit above).... **$129.00**

CR2A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$79.95**

CR2-KIT-ND 200 ea. (same values as kit above).... **$129.00**

Digi-Key® 0805, 1/8W, 5% Chip Resistor Assortments

CR3A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$79.95**

CR3-KIT-ND 200 ea. (same values as kit above)..... **$129.00**

CR4A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$79.95**

CR4-KIT-ND 200 ea. (same values as kit above)..... **$129.00**

Digi-Key® 0603, 1/10W, 5% Chip Resistor Assortments

CR5A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$85.95**

CR5-KIT-ND 200 ea. (same values as kit above)...... **$129.00**

CR6A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$85.95**

CR6-KIT-ND 200 ea. (same values as kit above).... **$129.00**

Digi-Key® 0402, 1/16W, 5% Chip Resistor Assortments

CR7A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, 22, etc. 1.0M (3,050) **$89.95**

CR7-KIT-ND 200 ea. (same values as kit above).... **$169.00**

CR8A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$89.95**

CR8-KIT-ND 200 ea. (same values as kit above).... **$169.00**

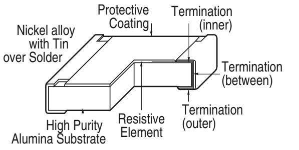

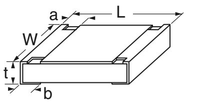

Type	Power Rating	Max. RCWV	Overload Voltage	Dimensions (mm) L	W	t	a	b	Temperature Coefficient	Panasonic Part No.
01005	1/32W	15V	30V	0.40	0.20	0.13	0.10	0.10	<100Ω: ±300ppm/°C 100Ω<: ±200ppm/°C	ERJ-XGEJ
0201	1/20W	15V	30V	0.60	0.30	0.20	0.15	0.15	<10Ω: -100ppm/°C ~ +600ppm/°C 10Ω ~ 1MΩ: ±200ppm/°C 1MΩ >: -400ppm/°C ~ +600ppm/°C	ERJ-1GEJ
0402	1/16W	50V	100V	1.00	0.50	0.35	0.20	0.25		ERJ-2GEJ
0603	1/10W	50V	100V	1.60	0.80	0.45	0.30	0.30		ERJ-3GEY
0805	1/8W	150V	200V	2.00	1.25	0.60	0.40	0.40		ERJ-6GEY
1206	1/4W	200V	400V	3.20	1.60	0.60	0.50	0.50		ERJ-8GEY
1210	1/4W	200V	400V	3.20	2.50	0.60	0.50	0.50		ERJ-14Y
2010	1/2W	200V	400V	5.00	2.50	0.60	0.60	0.60		ERJ-12ZY
2512	1W	250V	500V	6.40	3.20	0.60	0.65	0.60		ERJ-1TY

Description	Value Range	Digi-Key★ Part No.	Pricing 10	50	200	1,000	Digi-Key★ Part No.	Reel Qty.	Tape and Reel Pricing 4,000	5,000	10,000	12,000	15,000	20,000	Panasonic Part No.
01005, 1/32W, 5%	(10 ~ 1.0MΩ)	P(Value)ANCT-ND	1.94	6.86	22.61	96.90	P(Value)ANTR-ND	20,000	—	—	—	—	—	47.00/M	ERJ-XGEJxxxY
0201, 1/20W, 5%	(10 ~ 1.0MΩ)	P(Value)AGCT-ND†	.96	2.59	5.95	20.30	P(Value)AGTR-ND†	15,000	—	—	—	—	8.00/M	—	ERJ-1GEJxxxC
0402, 1/16W, 5%	(1.0 ~ 10MΩ)	P(Value)JCT-ND†	.81	2.18	5.02	17.11	P(Value)JTR-ND†	10,000	—	—	5.00/M	—	—	—	ERJ-2GEJxxxX
0603, 1/10W, 5%	(1.0 ~ 22MΩ)‡	P(Value)GCT-ND†	.71	1.91	4.39	14.99	P(Value)G TR-ND†	5,000	—	2.70/M	2.43/M	—	—	—	ERJ-3GEYJxxxV
0805, 1/8W, 5%	(1.0 ~ 22MΩ)‡	P(Value)ACT-ND†	.77	2.07	4.76	16.24	P(Value)ATR-ND†	5,000	—	4.80/M	4.32/M	—	—	—	ERJ-6GEYJxxxV
1206, 1/4W, 5%	(1.0 ~ 22MΩ)‡	P(Value)ECT-ND†	.94	2.53	5.82	19.87	P(Value)ETR-ND†	5,000	—	8.55/M	7.70/M	—	—	—	ERJ-8GEYJxxxV
1210, 1/4W, 5%	(1.0 ~ 10MΩ)	P(Value)VCT-ND	2.70	7.25	16.66	56.84	P(Value)VTR-ND	5,000	—	46.80/M	42.12/M	—	—	—	ERJ-14YJxxxU
2010, 1/2W, 5%	(1.0 ~ 10MΩ)	P(Value)WCT-ND	4.00	10.77	24.74	84.39	P(Value)WTR-ND	5,000	—	75.30/M	67.77/M	—	—	—	ERJ-12ZYJxxxU
2512, 1W, 5%	(1.0 ~ 2.2MΩ)	PT(Value)XCT-ND	3.96	14.03	46.20	191.40	PT(Value)XTR-ND	4,000	148.80/M	—	—	124.00/M	—	—	ERJ-1TYJxxxU

† 0.0Ω (zerohm) value also available ‡ 12M, 15M, 18M and 22M are 10% tolerance ★ For complete part number, substitute the value from Standard Resistor Values charts for (Value).

Panasonic 5% – 0402, 0603, 0805, 1206, 1210, 2010, 2512 and 1% – 0402, 0603, 0805, 1206, 2512
Surface Mount Ultra Low Ohm Thick Film Chip Resistors — 1/10, 1/8, 1/4, 1/2 and 1 Watt

5% and 1% 0402 Series Standard Resistor Values

.047	.068	.10	.15	.22	.33	.47	.68
.051	.075	.11	.16	.24	.36	.51	.75
.056	.082	.12	.18	.27	.39	.56	.82
.062	.091	.13	.20	.30	.43	.62	.91

5% – 0603, 1206, 1210, 2010 and 2512 Series 1% – 0603 and 1206 Series Standard Resistor Values

.010	.015	.022	.033	.047	.068	.10	.22	.47	1.0	2.2	4.7	9.1
.011	.016	.024	.036	.051	.075	.12	.27	.56	1.2	2.7	5.6	
.012	.018	.027	.039	.056	.082	.15	.33	.68	1.5	3.3	6.8	
.013	.020	.030	.043	.062	.091	.18	.39	.82	1.8	3.9	8.2	

5% and 1% 0805 Series Standard Resistor Values

.01	.016	.027	.043	.18	.47	1.2	3.3	8.2
.011	.018	.030	.047	.22	.56	1.5	3.9	9.1
.012	.020	.033	.10	.27	.68	1.8	4.7	
.013	.022	.036	.12	.33	.82	2.2	5.6	
.015	.024	.039	.15	.39	1.0	2.7	6.8	

1% – 2512 Series Standard Resistor Values

.22	.33	.47	.68	1.0	1.5	2.2	3.3	4.7	6.8
.24	.36	.51	.75	1.1	1.6	2.4	3.6	5.1	7.5
.27	.39	.56	.82	1.2	1.8	2.7	3.9	5.6	8.2
.30	.43	.62	.91	1.3	2.0	3.0	4.3	6.2	9.1

Rated Continuous Working Voltage (RCWV):
The rated voltage at each resistance should be calculated from the following equation:
$RCWV=\sqrt{P \times R}$
RCWV(V):P(W):R(Ω)
Maximum Overload Voltage = RCWV x 2.5

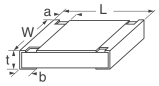

Type	Type (Power Rating)	Dimensions (mm) L	W	t	a	b	Temperature Coefficient (ppm/°C)	Panasonic Part No.
0402	1/8 Watt (5%, 1%)	1.00	0.50	0.35	0.24	0.24	±300ppm/°C	ERJ-2BWJ/F
0402	1/8 Watt (1%)	1.00	0.50	0.20	0.27	0.35	.1 ~ .20Ω ±300ppm/°C/.22 ~ 1.0Ω + ±250ppm/°C	ERJ-2BS/Q
0603	1/10 Watt	1.6	0.8	0.45	0.30	0.30	.1 ~ .82Ω ±300ppm/°C/1.0 ~ 8.2Ω + ±200ppm/°C	ERJ-3RS/Q
0805	1/8 Watt	2.00	1.25	0.60	0.40	0.40	.1 ~ .91Ω ±250ppm/°C/1.0 ~ 9.1Ω + ±200ppm/°C	ERJ-6RS/Q
0805	1/4 Watt	2.00	1.25	0.60	0.40	0.40	.01 ~ .013Ω ±300ppm/°C/.015 ~ .047Ω ±200ppm/°C	ERJ-6BWJ/F
1206	1/4 Watt	3.20	1.60	0.60	0.50	0.50	.1 ~ .91Ω ±250ppm/°C/1.0 ~ 9.1Ω + ±200ppm/°C	ERJ-8RS/Q
1206	1/2 Watt	3.20	1.60	0.65	1.00	1.00	.01 ~ .043Ω ±200ppm/°C/.047 ~ .10Ω ±100ppm/°C	ERJ-8BWF/J
1210	1/4 Watt	3.20	2.50	0.60	0.50	0.50	.1 ~ .91Ω ±200ppm/°C/1.0 ~ 9.1Ω + ±100ppm/°C	ERJ-14RS/Q
2010	1/2 Watt	5.00	2.50	0.60	0.60	0.60	.22 ~ 1.0Ω ±200ppm/°C	ERJ-12ZQJ
2512	1 Watt	6.40	3.20	0.60	0.65	0.60	.1 ~ .91Ω ±200ppm/°C/1.0 ~ 9.1Ω + ±100ppm/°C	ERJ-1TRS/Q

Description	Value Range	Digi-Key★ Part No.	Pricing 10	50	200	1,000	Digi-Key★ Part No.	Reel Qty.	Tape and Reel Pricing 4,000	5,000	10,000	12,000	Panasonic Part No.
0402, 1/8W, 5%	(.047 ~ .091Ω)	P(Value)AMCT-ND	5.18	18.36	60.48	250.56	P(Value)AMTR-ND	10,000	—	—	164.80/M	—	ERJ-2BWJRxxxX
0402, 1/8W, 1%	(.047 ~ .091Ω)	P(Value)ATCT-ND	4.03	14.28	47.04	194.88	P(Value)ATTR-ND	10,000	—	—	126.00/M	—	ERJ-2BWFRxxxX
0402, 1/8W, 1%	(.10 ~ .20Ω)	P(Value)AKCT-ND	7.07	19.02	43.69	149.06	P(Value)AKTR-ND	10,000	—	—	128.00/M	—	ERJ-2BSFRxxX
0402, 1/8W, 1%	(.22 ~ .91Ω)	P(Value)AKCT-ND	6.78	18.24	41.91	142.97	P(Value)AKTR-ND	10,000	—	—	122.31/M	—	ERJ-2BQFRxxX
0603, 1/10W, 5%	(.10 ~ .18Ω)	P(Value)AHCT-ND	3.12	8.40	19.30	65.83	P(Value)AHTR-ND	5,000	—	56.00/M	50.00/M	—	ERJ-3RSJxxxV
0603, 1/10W, 5%	(.22 ~ 8.2Ω)	P(Value)AHCT-ND	1.84	4.96	11.39	38.86	P(Value)AHTR-ND	5,000	—	28.00/M	25.00/M	—	ERJ-3RQJxxxV
0603, 1/10W, 1%	(.10 ~ .18Ω)	P(Value)AJCT-ND	5.36	14.43	33.15	113.10	P(Value)AJTR-ND	5,000	—	105.00/M	94.50/M	—	ERJ-3RSFxxxV
0603, 1/10W, 1%	(.22 ~ 8.2Ω)	P(Value)AJCT-ND	3.03	8.14	18.70	63.80	P(Value)AJTR-ND	5,000	—	54.00/M	48.60/M	—	ERJ-3RQFxxxV
0805, 1/4W, 5%	(.01 ~ .047Ω)	P(Value)ARCT-ND	19.54	52.58	120.79	412.09	P(Value)ARTR-ND	5,000	—	414.00/M	373.00/M	—	ERJ-6BWJRxxxV
0805, 1/8W, 5%	(.10 ~ .18Ω)	P(Value)BCT-ND	8.14	21.90	50.32	171.68	P(Value)BTR-ND	5,000	—	166.00/M	149.00/M	—	ERJ-6RSJxxxV
0805, 1/8W, 5%	(.22 ~ 9.1Ω)	P(Value)BCT-ND	6.33	17.02	39.10	133.40	P(Value)BTR-ND	5,000	—	103.50/M	93.15/M	—	ERJ-6RQJxxxV
0805, 1/4W, 1%	(.01 ~ .047Ω)	P(Value)AQCT-ND	29.25	78.70	180.80	616.83	P(Value)AQTR-ND	5,000	—	626.00/M	563.00/M	—	ERJ-6BWFRxxxV
0805, 1/8W, 1%	(.22 ~ 9.1Ω)	P(Value)DCT-ND	2.10	7.44	24.50	101.50	P(Value)DTR-ND	5,000	—	74.40/M	62.00/M	—	ERJ-6RQFxxxV
1206, 1/2W, 5%	(.010 ~ .10Ω)	P(Value)AVCT-ND	15.74	42.37	97.33	332.05	P(Value)AVTR-ND	5,000	—	332.00/M	298.00/M	—	ERJ-8BWJRxxxV
1206, 1/4W, 5%	(.10 ~ .18Ω)	P(Value)PCT-ND	12.51	33.67	77.35	263.90	P(Value)PTR-ND	5,000	—	261.00/M	234.90/M	—	ERJ-8RSJxxxV
1206, 1/4W, 5%	(.22 ~ 9.1Ω)	P(Value)PCT-ND	6.05	16.28	37.40	127.60	P(Value)PTR-ND	5,000	—	120.00/M	108.00/M	—	ERJ-8RQJxxxV
1206, 1/2W, 1%	(.010 ~ .10Ω)	P(Value)AUCT-ND	6.79	27.59	98.48	441.48	P(Value)AUTR-ND	5,000	—	373.00/M	315.00/M	—	ERJ-8BWFRxxxV
1206, 1/4W, 1%	(.22 ~ 9.1Ω)	P(Value)RCT-ND	2.70	9.56	31.50	130.50	P(Value)RTR-ND	5,000	—	98.40/M	82.00/M	—	ERJ-8RQFxxxV
1210, 1/4W, 5%	(.10 ~ .18Ω)	P(Value)SCT-ND	5.52	19.55	64.40	266.80	P(Value)STR-ND	5,000	—	211.20/M	176.00/M	—	ERJ-14RSJxxxU
1210, 1/4W, 5%	(.22 ~ 9.1Ω)	P(Value)SCT-ND	3.42	12.11	39.90	165.30	P(Value)STR-ND	5,000	—	127.20/M	106.00/M	—	ERJ-14RQJxxxU
2010, 1/2W, 5%	(.22 ~ 1.0Ω)	P(Value)AFCT-ND	5.61	19.87	65.45	271.15	P(Value)AFTR-ND	5,000	—	214.80/M	179.00/M	—	ERJ-12ZQJxxxU
2512, 1W, 5%	(.10 ~ .18Ω)	PT(Value)UCT-ND	8.92	36.22	129.28	579.54	PT(Value)UTR-ND	4,000	493.00/M	—	—	416.00/M	ERJ-1TRSJxxxU
2512, 1W, 5%	(.22 ~ 9.1Ω)	PT(Value)UCT-ND	8.99	31.84	104.90	434.57	PT(Value)UTR-ND	4,000	350.04/M	—	—	291.70/M	ERJ-1TRQJxxxU
2512, 1W, 1%	(.22 ~ 9.1Ω)	PT(Value)YCT-ND	6.76	27.46	98.02	439.40	PT(Value)YTR-ND	4,000	371.25/M	—	—	313.50/M	ERJ-1TRQFxxxU

★ For complete part number, substitute the value from Standard Resistor Values charts for (Value).

Panasonic® SMD Thick Film Chip Resistors / Low Resistance Type

0603, 0805, 1206, 1210, 1812, 2010, 2512 — For Current Sensing Applications

Features: • Operating Temperature: ERJ-L: -55°C ~ 125°C, ERJ-M: -55 °C ~ 170°C (derating required above 70°C) • Resistance Range: • 1.0 to100mΩ

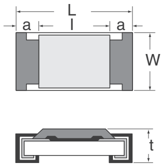

Package	Dimensions (mm) L	W	a	t	l
0603	1.60	0.80	0.30	0.45	1.00
0805	2.00	1.25	0.40	0.60	1.20
1206	3.20	1.60	0.50	0.60	2.20
1210	3.20	2.50	0.50	0.60	2.20
1812	4.50	3.20	0.50	0.60	3.50
2010	5.00	2.50	0.60	0.60	3.80
2512 (S Type)	6.40	3.20	1.00	0.80	4.40
2512 (T Type)	6.40	3.20	2.10	0.80	2.20
2512 (L Type)	6.40	3.20	0.65	1.10	5.10

See below for complete part numbers when ordering.

Standard Resistor Values (mΩ) for 0603, 0805, 1206

Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)
47 (47M)	50 (50M)	75 (75M)*	100 (10C)

Standard Resistor Values (mΩ) for 1210, 1812, 2010

Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)
20 (20M) 22 (22M)	25 (25M) 33 (33M)	39 (39M) 47 (47M)	50 (50M) 75 (75M)*	100 (10C)

Standard Resistor Values (mΩ) for 2512

Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)
1.0 (1M0) 1.5 (1M5) 2.0 (2M0) 3.0 (3M0)	4.0 (4M0) 5.0 (5M0) 6.0 (6M0) 8.0 (8M0)†	10 (10M) 12 (12M)† 15 (15M) 16 (16M)†	20 (20M) 47 (47M) 50 (50M) 100 (10C)

* For 75mΩ parts, change K to U in Manufacturer Part Number † Not in Kit

RoHS Compliant Parts Available

Description	Type	Value Range (mΩ)	Temperature Coefficient (ppm/°C)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
0603, 1/10 W, 5%	—	47 ~ 100	±200ppm	P(Value)NJCT-ND	6.13	18.28	43.00	P(Value)NJTR-ND	5,000	136.50/M	ERJ-L03KJxxxV
0603, 1/10 W, 1%	—	47 ~ 100	±200ppm	P(Value)LJCT-ND	7.20	18.00	50.40	P(Value)LJTR-ND	5,000	144.00/M	ERJ-L03KFxxxV
0805, 1/8 W, 5%	—	47 ~ 100	±100ppm	P(Value)NLCT-ND	6.70	19.98	47.00	P(Value)NLTR-ND	5,000	150.50/M	ERJ-L06KJxxxV
0805, 1/8 W, 1%	—	47 ~ 100	±100ppm	P(Value)LLCT-ND	7.60	19.00	53.20	P(Value)LLTR-ND	5,000	152.00/M	ERJ-L06KFxxxV
1206, 1/4 W, 5%	—	47 ~ 100	±100ppm	P(Value)NPCT-ND	7.70	22.95	54.00	P(Value)NPTR-ND	5,000	175.00/M	ERJ-L08KJxxxV
1206, 1/4 W, 1%	—	47 ~ 100	±100ppm	P(Value)LPCT-ND	9.36	23.40	65.52	P(Value)LPTR-ND	5,000	187.00/M	ERJ-L08KFxxxV
1210, 1/4 W, 1%	—	20 ~ 39 47 ~100	±300ppm ±100ppm	P(Value)NACT-ND	5.34	18.91	62.30	P(Value)NATR-ND	5,000	204.00/M	ERJ-L14KFxxxU
1812, 1/2 W, 1%	—	20 ~ 39 47 ~ 100	±300ppm ±100ppm	P(Value)NBCT-ND	6.96	28.28	100.92	P(Value)NBTR-ND	5,000	382.50/M	ERJ-L12KFxxxU
2010, 1/2 W, 1%	—	47 ~ 100	±100ppm	P(Value)NCCT-ND	6.96	28.28	100.92	P(Value)NCTR-ND	5,000	382.50/M	ERJ-L1DKFxxxU
2512, 1 W, 5%	T	1.0 ~ 1.5 2.0	350 ±100ppm 100 ±50ppm	P(Value)TCT-ND	7.76	31.53	112.52	P(Value)TTR-ND	3,000	427.50/M	ERJ-M1WTJxxxU
	S	3.0 ~ 4.0 5.0 ~ 20	±350ppm ±100ppm	P(Value)TCT-ND	7.76	31.53	112.52	P(Value)TTR-ND	3,000	427.50/M	ERJ-M1WSJxxxU
	L	47 ~ 100	±100ppm	P(Value)TCT-ND	7.88	32.01	114.26	P(Value)TTR-ND	3,000	434.25/M	ERJ-L1WKJxxxU
2512, 1 W, 1%	T	1.0 ~ 1.5 2.0 ~ 4.0	350 ±100ppm 100 ±50ppm	P(Value)NDCT-ND	9.58	38.92	138.91	P(Value)NDTR-ND	3,000	529.88/M	ERJ-M1WTFxxxU
	S	3.0 ~ 4.0 5.0 ~ 20	±350ppm ±100ppm	P(Value)MCT-ND	8.16	33.15	118.32	P(Value)MTR-ND	3,000	450.00/M	ERJ-M1WSFxxxU
	L	47 50 ~ 100	±300ppm ±100ppm	P(Value)MCT-ND P(Value)MCT-ND	9.24 9.40	37.54 38.19	133.98 136.30	P(Value)MTR-ND P(Value)MTR-ND	3,000 3,000	520.00/M 519.75/M	ERJ-L1WKFxxxU

0603, 0805, 1206, 1210 1% Current Sensing Low Resistance Resistor Kit

ERJ1-KIT-ND 20 each of 21 Values ***(RoHS Compliant)***.. **$39.95**

1812, 2010, 2512 1% Current Sensing Low Resistance Resistor Kit

ERJ2-KIT-ND 20 each of 26 Values ***(RoHS Compliant)*** **$129.95**

Panasonic® Anti-Surge Thick Film Chip Resistors

Features:

- Operating Temperature: -55°C ~ 155°C
- Improved Anti-Surge characteristics compared to metal film resistors
- Metal glaze thick film resistive element and three layers of electrodes result in high reliability
- Suitable for both reflow soldering and flow soldering
- Thick film resistor with excellent Anti-Pulse characteristic and high rated power

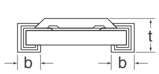

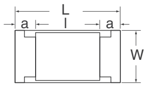

Power Derating Curve

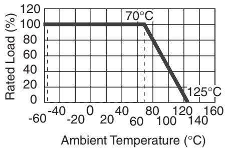

Type	Dimensions (mm) L	W	a	b	t	l
0805	2.00	1.25	0.25	0.40	0.60	1.50
1206	3.20	1.60	0.40	0.50	0.60	2.24
1210	3.20	2.50	0.35	0.50	0.60	2.50

Type	Power Rating at 70°C (W)	Limiting Element Voltage (Maximum RCWV)[1] (V)	Maximum Overload Voltage[2] (V)	Resistance Tolerance (%)	Resistance Range (Ω) Minimum	Maximum	Temperature Coefficient x10^{-6} °C (ppm/°C)	Standard Resistance Values
ERJP06	0.125	150	200	±5	10	30	±300	E24 (3 digits)
ERJP06	0.125	150	200	±5	33	1.0M	±200	E24 (3 digits)
ERJP08	0.25	200	400	±5	10	1.0M	±200	E24 (3 digits)
ERJP14	0.5	200	400	±5	1.0	1.0M	±200	E24 (3 digits)

(1) Rated Continuous Working Voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Values}}$, or Limiting Element Voltage (maximum RCWV) listed above, whichever is less.

(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or maximum Overload Voltage listed above whichever is less.

Standard Resistor Values (See below for complete part numbers when ordering.)

1.0	2.7	6.8	18	47	120	330	820	2.2K	5.6K	15K	39K	100K	270K	680K
1.1	3.0	7.5	20	51	130	360	910	2.4K	6.2K	16K	43K	110K	300K	750K
1.2	3.3	8.2	22	56	150	390	1.0K	2.7K	6.8K	18K	47K	120K	330K	820K
1.3	3.6	9.1	24	62	160	430	1.1K	3.0K	7.5K	20K	51K	130K	360K	910K
1.5	3.9	10	27	68	180	470	1.2K	3.3K	8.2K	22K	56K	150K	390K	1.0M
1.6	4.3	11	30	75	200	510	1.3K	3.6K	9.1K	24K	62K	160K	430K	
1.8	4.7	12	33	82	220	560	1.5K	3.9K	10K	27K	68K	180K	470K	
2.0	5.1	13	36	91	240	620	1.6K	4.3K	11K	30K	75K	200K	510K	
2.2	5.6	15	39	100	270	680	1.8K	4.7K	12K	33K	82K	220K	560K	
2.4	6.2	16	43	110	300	750	2.0K	5.1K	13K	36K	91K	240K	620K	

Description	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.	Tape and Reel Pricing 5,000	10,000	25,000	50,000	Panasonic Part No.
0805, 1/8 W, 5%	10 ~ 1.0M	P(Value)ADCT-ND	1.65	4.93	11.60	34.80	P(Value)ADTR-ND	26.60/M	22.80/M	20.90/M	19.00/M	ERJ-P06JxxxV
1206, 1/4 W, 5%	10 ~ 1.0M	P(Value)ALCT-ND	2.01	5.99	14.10	42.30	P(Value)ALTR-ND	35.35/M	30.30/M	27.78/M	25.25/M	ERJ-P08JxxxV
1210, 1/2 W, 5%	1.0 ~ 1.0M	P(Value)ASCT-ND	3.56	10.63	25.00	75.00	P(Value)ASTR-ND	73.50/M	63.00/M	57.75/M	42.00/M	ERJ-P14JxxxU

Panasonic Metal Film Thermosensitive Chip Resistors

Features:

- Recommended for temperature correction circuits
- Temperature coefficient value 1000 x 10^{-6}/°C (ppm/°C) to 4700 x 10^{-6}/°C (ppm/°C)
- Quick response to temperature change
- Excellent linear resistance value change in wide temperature range (-40°C ~ 125°C)
- High reliability, high density placing
- Suitable for both reflow soldering and flow soldering

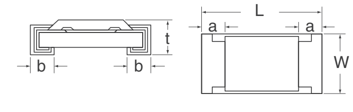

Type	Dimensions – mm L	W	a	b	t
0402	1.00	0.50	0.15	0.25	0.35
0603	1.60	0.80	0.30	0.30	0.45
0805	2.00	1.25	0.40	0.40	0.50

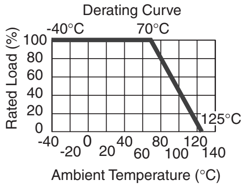

Standard Resistor Values			
5.6	39	270	1.8K
6.8	47	330	2.2K
8.2	56	390	2.7K
10	68	470	3.3K
12	82	560	3.9K
15	100	680	4.7K
18	120	820	5.6K
22	150	1.0K	6.8K
27	180	1.2K	8.2K
33	220	1.5K	10K

Description	TCR (ppm/°C)	Value Range (Ω)	TCR Tolerance	Digi-Key† Part No.	Cut Tape Pricing 10	50	200	Digi-Key† Part No.	Tape and Reel Pricing 5,000	10,000	25,000	30,000	Panasonic Part No.
0402, 1/32W, 5%	+2700	47 ~ 1.0K	—	P(Value)CLCT-ND	4.12	14.60	48.09	P(Value)CLTR-ND	—	97.05/M	—	90.58/M	ERA-W27JxxxX
	+3300	22 ~ 390	—	P(Value)CMCT-ND	4.12	14.60	48.09	P(Value)CMTR-ND	—	97.05/M	—	90.58/M	ERA-W33JxxxX
0603, 1/16W, 5%	+1500	10 ~ 10K	±200 x ppm/°C	P(Value)CFCT-ND	5.52	19.55	64.40	P(Value)CFTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-V15JxxxV
	+2700	47 ~ 3.3K	±10%	P(Value)CGCT-ND	5.52	19.55	64.40	P(Value)CGTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-V27JxxxV
	+3300	22 ~ 1.2K	±10%	P(Value)CHCT-ND	5.52	19.55	64.40	P(Value)CHTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-V33JxxxV
	+3900	5.6 ~ 390	±10%	P(Value)CJCT-ND	5.52	19.55	64.40	P(Value)CJTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-V39JxxxV
0805, 1/10W, 5%	+1500	10 ~ 10K	±200 x ppm/°C	P(Value)CBCT-ND	5.52	19.55	64.40	P(Value)CBTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-S15JxxxV
	+2700	47 ~ 4.7K	±10%	P(Value)CCCT-ND	5.52	19.55	64.40	P(Value)CCTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-S27JxxxV
	+3300	22 ~ 1.8K	±10%	P(Value)CDCT-ND	5.52	19.55	64.40	P(Value)CDTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-S33JxxxV
	+3900	5.6 ~ 470	±10%	P(Value)CECT-ND	5.52	19.55	64.40	P(Value)CETR-ND	146.08/M	132.00/M	123.20/M	—	ERA-S39JxxxV

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic 1 and 2 Watt – 5% SMD Metal Film Fixed Resistors

Features:

- Non-flammable nature
- High reliability
- Approved under the ISO 9001 system

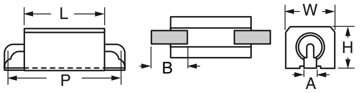

Type	Dimensions – mm P	L	W	H	A	B
1 Watt	12.5	9.0	5.6	5.0	1.5	3.0
2 Watt	15.0	12.0	6.4	5.8	1.5	4.0

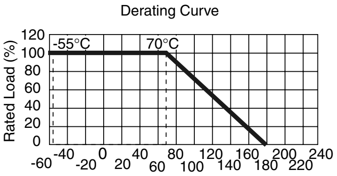

Standard Resistor Values			
.022	.10	.47	2.2
.027	.12	.56	2.7
.033	.15	.68	3.3
.039	.18	.82	3.9
.047	.22	1.0	4.7
.056	.27	1.2	5.6
.068	.33	1.5	6.8
.082	.39	1.8	8.2

Description	Value Range (Ω)	Digi-Key† Part No.	Cut Tape Pricing 10	50	200	Digi-Key† Part No.	Reel Qty.	Tape and Reel Pricing 1,000	2,000	5,000	6,000	Panasonic Part No.
1 Watt, 5%	.022 ~ .082	PRX1W(Value)CT-ND	55.99	150.66	346.12	PRX1W(Value)TR-ND	2,000	—	806.40/M	—	645.12/M	ERX-1HQJxxMH
	.10 ~ .18	PRX1W(Value)CT-ND	38.13	102.59	235.69	PRX1W(Value)TR-ND	2,000	—	546.56/M	—	437.25/M	ERX-1HZJxxxH
	.22 ~ 8.2	PRX1W(Value)CT-ND	33.66	90.58	208.08	PRX1W(Value)TR-ND	2,000	—	481.60/M	—	385.28/M	ERX-1HJxxxH
2 Watt, 5%	.022 ~ .082	PRX2W(Value)CT-ND	59.84	161.02	369.92	PRX2W(Value)TR-ND	1,000	862.40	—	689.92/M	—	ERX-2HQJxxMH
	.10 ~ .18	PRX2W(Value)CT-ND	43.67	117.51	269.96	PRX2W(Value)TR-ND	1,000	627.20	—	501.76/M	—	ERX-2HZJxxxH
	.22 ~ 8.2	PRX2W(Value)CT-ND	38.13	102.59	235.69	PRX2W(Value)TR-ND	1,000	546.56	—	437.25/M	—	ERX-2HJxxxH

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic ERA 0603/0805/1210 .1% Metal Film Chip Resistors

Surface Mount – Available in 1/4, 1/16 and 1/10 Watt

Features:

- High reliability
- Low TCR and current noise
- Excellent non-linearity

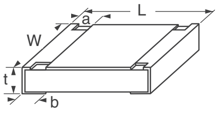

Type	Type (Power Rating)	Max. RCWV	Max. Overload Voltage	Dimensions – mm L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
0603	1/16 Watt	75V	150V	1.60	0.80	0.30	0.30	0.45	±25ppm/°C	ERA-3YE
0805	1/10 Watt	100V	200V	2.00	1.25	0.40	0.40	0.50	±25ppm/°C	ERA-6YE
1210	1/4 Watt	150V	300V	3.20	2.50	0.50	0.50	0.60	±25ppm/°C	ERA-14EB

Standard Resistor Values											
100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K
110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K
120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K
130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	
150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	
160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	
180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	

Description	Value Range (Ω)	Digi-Key† Part No.	Cut Tape Pricing 10	50	200	1,000	Digi-Key† Part No.	Reel Qty.	Tape and Reel Pricing 5,000	10,000	25,000	50,000	Panasonic Part No.
0603, 1/16W, .1%	100 ~ 33K	P(Value)YCT-ND	5.94	21.04	69.30	287.10	P(Value)YTR-ND	5,000	157.70/M	142.50/M	133.00/M	128.25/M	ERA-3YEBxxxV
0805, 1/10W, .1%	100 ~ 100K	P(Value)ZCT-ND	6.24	22.10	72.80	301.60	P(Value)ZTR-ND	5,000	166.00/M	150.00/M	140.00/M	135.00/M	ERA-6YEBxxxV
1210, 1/4W, .1%	100 ~ 200K	P(Value)QCT-ND	17.74	44.35	124.18	443.50	P(Value)QTR-ND	5,000	347.00/M	303.00/M	243.00/M	225.00/M	ERA-14EBxxxU

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic ERA 0402 .5% and 0402, 0603 and 0805 .1% Metal Film Chip Resistors, High Reliability Type

Features:

- High reliability
- High accuracy
- High performance
- Reference Standard: IEC 60115-8, JIS C 5201-8, EIAJ RC-2133A

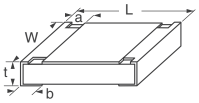

Type	Type (Power Rating)	Max. RCWV	Max. Overload Voltage	Dimensions – mm L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
0402	1/16 Watt (.5%)	25V	50V	1.00	0.50	0.15	0.25	0.35	10 ~ 43Ω ±100ppm/°C	ERA-2AKD
0402	1/16 Watt (.5% and .1%)	25V	50V	1.00	0.50	0.15	0.25	0.35	47 ~ 100K ±25ppm/°C	ERA-2AEB/D
0603	1/16 Watt	75V	150V	1.60	0.80	0.30	0.30	0.45	47 ~ 330K ±25ppm/°C	ERA-3AEB
0805	1/10 Watt	100V	200V	2.00	1.25	0.40	0.40	0.50	47 ~ 1M ±25ppm/°C	ERA-6AEB

Standard Resistor Values

10	30	82	240	680	2.0K	5.6K	16K	47K	130K	390K
11	33	91	270	750	2.2K	6.2K	18K	51K	150K	430K
12	36	100	300	820	2.4K	6.8K	20K	56K	160K	470K
13	39	110	330	910	2.7K	7.5K	22K	62K	180K	510K
15	43	120	360	1.0K	3.0K	8.2K	24K	68K	200K	560K
16	47	130	390	1.1K	3.3K	9.1K	27K	75K	220K	620K
18	51	150	430	1.2K	3.6K	10K	30K	82K	240K	680K
20	56	160	470	1.3K	3.9K	11K	33K	91K	270K	750K
22	62	180	510	1.5K	4.3K	12K	36K	100K	300K	820K
24	68	200	560	1.6K	4.7K	13K	39K	110K	330K	910K
27	75	220	620	1.8K	5.1K	15K	43K	120K	360K	1M

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.†	Reel Qty.	Tape and Reel Pricing 5,000	10,000	25,000	50,000	Panasonic Part No.
0402, 1/16W, .5%	10 ~ 43	P(Value)DDCT-ND	1.35	3.63	8.33	28.42	P(Value)DDTR-ND	10,000	—	16.00/M	—	12.00/M	ERA-2AKDxxxX
0402, 1/16W, .5%	47 ~ 100K	P(Value)DECT-ND	4.36	11.73	26.95	91.93	P(Value)DETR-ND	10,000	—	75.00/M	—	55.00/M	ERA-2AEDxxxX
0402, 1/16W, .1%	47 ~ 100K	P(Value)DCCT-ND	6.90	18.56	42.63	145.44	P(Value)DCTR-ND	10,000	—	125.00/M	—	92.00/M	ERA-2AEBxxxX
0603, 1/16W, .1%	47 ~ 330K	P(Value)DBCT-ND	2.04	7.23	23.80	98.60	P(Value)DBTR-ND	5,000	50.00/M	45.00/M	42.00/M	41.00/M	ERA-3AEBxxxV
0805, 1/10W, .1%	47 ~ 1M	P(Value)DACT-ND	2.04	7.23	23.80	98.60	P(Value)DATR-ND	5,000	50.00/M	45.00/M	42.00/M	41.00/M	ERA-6AEBxxxV

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic ERA 1210 .5% Metal Film Chip Resistors – 1/4 Watt

Features:

- High reliability
- Low TCR and current noise
- Excellent non-linearity

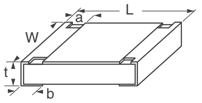

Type	Type (Power Rating)	Max. RCWV	Max. Overload Voltage	Dimensions – mm L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
1210	1/4 Watt	150V	300V	3.20	2.50	0.50	0.50	0.60	±50ppm/°C	ERA-14H

Standard Resistor Values

10	18	33	56
11	20	36	62
12	22	39	68
13	24	43	75
15	27	47	82
16	30	51	91

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.†	Reel Qty.	Tape and Reel Pricing 5,000	10,000	25,000	50,000	Panasonic Part No.
1210, 1/4W, .5%	10 ~ 91	P(Value)APCT-ND	6.48	22.95	75.60	313.20	P(Value)APTR-ND	5,000	172.64/M	156.00/M	145.60/M	140.40/M	ERA-14HDxxxU

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic 5 % Miniature Carbon Film Resistors

Features:

- High reliability using carbon film
- 52mm Axial taping style for automatic inserting machine
- 4 color code marking
- Uses UL 94V-0 approved coating for flame retardant type
- Approved under the ISO 9001 system
- Reference Standard: IEC 60115-2, JIS C 5201-2
- Miniaturized version

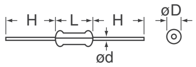

Type	Dimensions – mm L	D	d	H	Mass (mg)
1/4W, 5%	3.20	1.70	0.45	20 minimum	107
1/2W, 5%	6.35	2.30	0.60	20 minimum	228

Type	Power Rating at 70°C (W)	Limiting Element Voltage (Maximum RCWV)^1 (V)	Maximum Overload Voltage^2 (V)	Maximum Intermittent Overload Voltage^3 (V)	Dielectric Withstanding Voltage (VAC)	Standard Resistance Value	Resistance Tolerance (%)	Resistance Range (Ω) minimum	maximum
ERDS2T	0.25	250	500	750	300	E24	±5 (J)	0	2.2M
ERDS1T	0.5	300	600	750	500	E24	±5 (J)	1	3.3M

Power Derating Curve

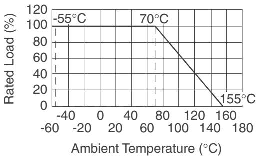

(1) Rated Voltage = $\sqrt{\text{Power Rating x Resistance Value}}$ or Limiting Element Voltage (maximum RCWV), whichever is less. (RCWV: Rated Continuous working Voltage).

(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or maximum Overload Voltage listed above whichever is less.

(3) Intermittent Overload Test Voltage (IOTV) shall be determined from IOTV = 4 x Power Rating (IOTV = 3 x Power Rating for ERDS2 type) or maximum Intermittent Overload Voltage listed above, whichever is less.

Standard Resistor Values

0.0‡	2.0	4.3	9.1	20	43	91	200	430	910	2.0K	4.3K	9.1K	20K	43K	91K	200K	430K	910K	2.0M
1.0	2.2	4.7	10	22	47	100	220	470	1.0K	2.2K	4.7K	10K	22K	47K	100K	220K	470K	1.0M	2.2M
1.1	2.4	5.1	11	24	51	110	240	510	1.1K	2.4K	5.1K	11K	24K	51K	110K	240K	510K	1.1M	2.4M§
1.2	2.7	5.6	12	27	56	120	270	560	1.2K	2.7K	5.6K	12K	27K	56K	120K	270K	560K	1.2M	2.7M§
1.3	3.0	6.2	13	30	62	130	300	620	1.3K	3.0K	6.2K	13K	30K	62K	130K	300K	620K	1.3M	3.0M§
1.5	3.3	6.8	15	33	68	150	330	680	1.5K	3.3K	6.8K	15K	33K	68K	150K	330K	680K	1.5M	3.3M§
1.6	3.6	7.5	16	36	75	160	360	750	1.6K	3.6K	7.5K	16K	36K	75K	160K	360K	750K	1.6M	
1.8	3.9	8.2	18	39	82	180	390	820	1.8K	3.9K	8.2K	18K	39K	82K	180K	390K	820K	1.8M	

§ Only available in 1/2 Watt ‡ Not available in 1/2 Watt

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.†	Package Qty.	Tape and Box Pricing 2,000	5,000	6,000	10,000	Panasonic Part No.
ERDS2T 1/4W, 5%	0.0 ~ 2.2M	P(Value)BACT-ND	.67	2.14	4.88	15.86	P(Value)BATB-ND	5,000	—	7.00/M	—	6.00/M	ERD-S2TJxxxV
ERDS1T 1/2W, 5%	1.0 ~ 3.3M	P(Value)BBCT-ND	.95	3.03	6.92	22.49	P(Value)BBTB-ND	2,000	15.12/M	—	13.95/M	12.79/M	ERD-S1TJxxxV

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic 1% Miniature Metal Film Resistors

Features:

- Low TCR, low noise, high reliability
- Taping style for automatic inserting machine
- 5 color code marking
- Approved under the ISO 9001 system
- Reference Standard: IEC 60115-2, JIS C 5201-2

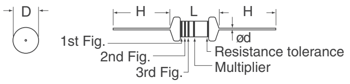

Type	Power Rating at 70°C (W)	Limiting Element Voltage (Maximum RCWV)[1] (V)	Maximum Overload Voltage[2] (V)	Dielectric Withstanding Voltage (V)	T.C.R. x10^{-6}/°C (ppm/°C)	Resistance Tolerance (%)	Resistance Range (Ω) min.	Resistance Range (Ω) max.	Resis-tance Value
EROS2P	0.25	250	500	300	±50	F(±1)	10	1M	E24

Type	Dimensions – mm L	D	d	H	Mass (mg)
1/4W, 1%	3.20	1.70	0.45	30	107

Power Derating Curve

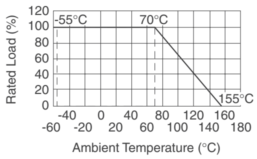

(1) Rated Voltage = $\sqrt{\text{Power Rating x Resistance Value}}$ or Limiting Element Voltage (maximum RCWV), whichever is less. (RCWV: Rated Continuous working Voltage).

(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or maximum Overload Voltage listed above, whichever is less.

Standard Resistor Values

10.0	30.0	82.0	240	680	2.00K	5.60K	16.0K	47.0K	130K	390K
11.0	33.0	91.0	270	750	2.20K	6.20K	18.0K	51.0K	150K	430K
12.0	36.0	100	300	820	2.40K	6.80K	20.0K	56.0K	160K	470K
13.0	39.0	110	330	910	2.70K	7.50K	22.0K	62.0K	180K	510K
15.0	43.0	120	360	1.00K	3.00K	8.20K	24.0K	68.0K	200K	560K
16.0	47.0	130	390	1.10K	3.30K	9.10K	27.0K	75.0K	220K	620K
18.0	51.0	150	430	1.20K	3.60K	10.0K	30.0K	82.0K	240K	680K
20.0	56.0	160	470	1.30K	3.90K	11.0K	33.0K	91.0K	270K	750K
22.0	62.0	180	510	1.50K	4.30K	12.0K	36.0K	100K	300K	820K
24.0	68.0	200	560	1.60K	4.70K	13.0K	39.0K	110K	330K	910K
27.0	75.0	220	620	1.80K	5.10K	15.0K	43.0K	120K	360K	1.00M

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.†	Package Qty.	Tape and Box Pricing 5,000	10,000	50,000	100,000	Panasonic Part No.
EROS2P 1/4W, 1%	10.0 ~ 1.00M	P(Value)CACT-ND	1.71	4.95	13.05	33.75	P(Value)CATB-ND	5,000	18.75/M	16.00/M	13.00/M	11.00/M	ERO-S2PHFxxxV

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Panasonic 5% Metal Film Resistors

Now Available In Tape and Reel

Matsushita fixed metal film resistors feature small sized dimensions and have higher power rating at the same size as the conventional type.

Features:

Flame retardancy of the exclusively formulated inorganic insulative material exhibits an equivalent performance requirements of UL 94(VE-0) and when operated at a potential less than 16 times RCWV, Matsushita metal (oxide) film resistors never flame nor arc.

The coating and markings resist normal washing of solvents, such as Freon (TE, TMC, TF), trichloroethane.

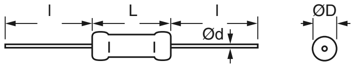

Type	Maximum Working Voltage	Dimensions – mm L	l	D	d
1W	350	9.0	30.0	2.8	0.65
2W	350	12.0	30.0	4.0	0.80
3W	350	15.0	38.0	5.5	0.80

Characteristics:

Temperature Coefficient	R. Wattage of 1, 2, 3 ±350ppm/°C
Voltage Coefficient	25ppm/V Maximum
Insulation Resistance	10,000 MΩ Minimum
Temperature Cycling	±(1% + 0.05Ω) Maximum
Short-time Overload	±(2% + 0.05Ω) Maximum
Humidity (Steady State)	±(2% + 0.05Ω) Maximum
Load Life in Humidity	±(5% + 0.05Ω) Maximum
Load Life	±(5% + 0.05Ω) Maximum
Resistance to Soldering Heat	±(1% + 0.05Ω) Maximum
Vibration Low Frequency	±(1% + 0.05Ω) Maximum
Thermal Shock	±(2% + 0.05Ω) Maximum
Noise	1.0μV/V Maximum

Standard Resistor Values

0.47	1.2	3.3	8.2	22	56	150	390	1.0K	2.7K	6.8K	18K	47K
0.51	1.3	3.6	9.1	24	62	160	430	1.1K	3.0K	7.5K	20K	51K
0.56	1.5	3.9	10	27	68	180	470	1.2K	3.3K	8.2K	22K	56K
0.62	1.6	4.3	11	30	75	200	510	1.3K	3.6K	9.1K	24K	62K
0.68	1.8	4.7	12	33	82	220	560	1.5K	3.9K	10K	27K	68K
0.75	2.0	5.1	13	36	91	240	620	1.6K	4.3K	11K	30K	75K
0.82	2.2	5.6	15	39	100	270	680	1.8K	4.7K	12K	33K	82K
0.91	2.4	6.2	16	43	110	300	750	2.0K	5.1K	13K	36K	91K
1.0	2.7	6.8	18	47	120	330	820	2.2K	5.6K	15K	39K	100K
1.1	3.0	7.5	20	51	130	360	910	2.4K	6.2K	16K	43K	

Description	Digi-Key Part No.†	Pricing 1	5	100	1,000	5,000	10,000
1 Watt, Bulk Package, 0.47-68KΩ	P(Value)W-1BK-ND	.23	.86	9.78	67.42	300.17	539.39
1 Watt, Tape and Reel, 0.47-68KΩ	P(Value)W-1TR-ND	—	—	—	—	63.89/M	57.41/M
2 Watt, Bulk Package, 0.47-100KΩ	P(Value)W-2BK-ND	.28	1.03	13.26	81.18	361.20	647.93
2 Watt, Tape and Reel, 0.47-100KΩ	P(Value)W-2TR-ND		279.00/3,000	492.00/6,000	888.00/12,000	1728.00/27,000	
3 Watt, Bulk Package, 0.47-100KΩ	P(Value)W-3BK-ND	.51	2.38	30.54	183.25	882.31	1696.75
3 Watt, Tape and Reel, 0.47-100KΩ	P(Value)W-3TR-ND		309.68/1,500	1102.94/6,000	1734.20/10,500	3639.91/25,500	

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

YAGEO 5 and 10 Watt Wirewound and Metal Oxide Film Rectangular Resistors, 5%

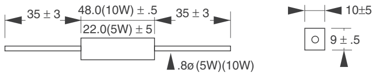

Axial Lead Type • **Operating Temperature Range:** -55°C ~ 155°C

• Exceptionally small and sturdy; mechanically safe. Excellent electrical characteristics. • The materials used and the construction techniques ensure excellent flame resistance, arc resistance and moisture resistance as well as self-extinguishing capabilities. They will withstand the most rigorous loading test. • Applicable specifications: EIA RS-344 and EIA RC649.

5 Watt Standard Resistor Values

0.30	0.56	1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K
0.33	0.62	1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K
0.39	0.68	1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	
0.43	0.75	1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	
0.47	0.82	1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	
0.51	0.91	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	

10 Watt Standard Resistor Values

1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K
1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K
1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K
1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K
1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K
1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K

Description	Digi-Key Part No.†	Pricing 1	10	100	1,000	5,000	10,000
5 Watt, **5% Wirewound Rectangular Resistors,** Bulk Package, 0.30Ω ~ 180Ω	(Value)W-5-ND	.33	2.78	22.24	133.44	119.54/M	105.64/M
5 Watt, **5% Metal Oxide Film Rectangular Resistors,** Bulk Package, 200Ω ~ 2.0KΩ	(Value)W-5-ND	.33	2.78	22.24	133.44	119.54/M	105.64/M
10 Watt, **5% Wirewound Rectangular Resistors,** Bulk Package, 1.0Ω ~ 270Ω	(Value)W-10-ND	.49	4.07	32.58	195.46	175.10/M	154.74/M
10 Watt, **5% Metal Oxide Film Rectangular Resistors,** Bulk Package, 300Ω ~ 3.0KΩ	(Value)W-10-ND	.49	4.07	32.58	195.46	175.10/M	154.74/M

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

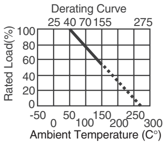

Digi-Key® 5 Watt Resistor Assortment Kit

RS105-ND 0.30Ω ~ 0.91Ω – 5 each 60 Resistors **$23.95**

RS205-ND 1.0Ω ~ 9.1Ω – 4 each 96 Resistors **$32.95**

RS305-ND 10Ω ~ 91Ω – 4 each 96 Resistors... **$32.95**

RS405-ND 100Ω ~ 2.0KΩ – 3 each 96 Resistors.. **$32.95**

Digi-Key® 10 Watt Resistor Assortment Kit

Two each of all 10 watt standard resistor values listed above. A total of 168 resistors.

RS110-ND... **$72.95**

YAGEO Zerohm Jumper Wires

Applications: Generally they are used for the following reasons: • Inability to connect two points on a PC Board due to other circuit paths which must be crossed over. • An After-the-Fact design change that requires new point connections. • Circuit tuning by changing point connections.

Specifications: • Maximum Resistance: 0.004Ω on 1/6 watt, 0.003Ω on 1/4 watt • Typical Resistance: 0.002Ω on both • Lead Material: tin-plated copper • Body Material: electrical grade, high performance molding compound • Minimum Insulation Resistance – Dry: 10,000MΩ, Wet: 100MΩ • Minimum Dielectric Withstanding Voltage – Atmospheric: 500V RMS, Reduced: 325V RMS • Insulation Flammability: resistor-insulation is self extinguishing within 10 seconds after externally applied flame is removed • Current Rating: 25 Amps at 25°C, derating to 0 Amps at 150°C.

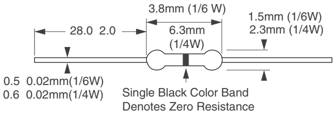

Description	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	50,000
1/6 Watt, **Zerohm Jumper,** Bulk Package	0.0EBK-ND	.22	6.98	14.00	12.84/M	11.63/M	10.74/M
1/6 Watt, **Zerohm Jumper,** Tape and Reel (5,000 Pieces/Reel)	0.0ETR-ND	—	—	—	15.80/M	14.87/M	12.16/M
1/4 Watt, **Zerohm Jumper,** Bulk Package	0.0QBK-ND	.30	5.55	11.28	10.38/M	9.41/M	8.69/M
1/4 Watt, **Zerohm Jumper,** Tape and Reel (5,000 Pieces/Reel)	0.0QTR-ND	—	—	—	12.11/M	11.39/M	9.34/M

YAGEO 5% Carbon Film Resistors

Available In 1/6, 1/4 and 1/2 Watt

CFR Series

Characteristics
• Operating Temperature Range: -55°C ~ 155°C • Solderability: 235°C for 5±0.5 seconds • Short Time Overload: 2.5 Times RCW V for 5 seconds • Resistance To Solvent: Trichroethane for 1 minute with ultrasonic • Pulse Overload: 4 times RCW V 10,000 cycles (1 second on, 25 seconds off)

Standard Resistor Values

1.0	1.6	2.7	4.3	6.8	11	18	30	47	75	120	200	330	510	820	1.3K	2.2K	3.6K	5.6K	9.1K	15K	24K	39K	62K	100K	160K	270K	430K	680K	1.1M	1.8M	3.0M	4.7M	7.5M
1.1	1.8	3.0	4.7	7.5	12	20	33	51	82	130	220	360	560	910	1.5K	2.4K	3.9K	6.2K	10K	16K	27K	43K	68K	110K	180K	300K	470K	750K	1.2M	2.0M	3.3M	5.1M	8.2M
1.2	2.0	3.3	5.1	8.2	13	22	36	56	91	150	240	390	620	1.0K	1.6K	2.7K	4.3K	6.8K	11K	18K	30K	47K	75K	120K	200K	330K	510K	820K	1.3M	2.2M	3.6M	5.6M	9.1M
1.3	2.2	3.6	5.6	9.1	15	24	39	62	100	160	270	430	680	1.1K	1.8K	3.0K	4.7K	7.5K	12K	20K	33K	51K	82K	130K	220K	360K	560K	910K	1.5M	2.4M	3.9M	6.2M	10M
1.5	2.4	3.9	6.2	10	16	27	43	68	110	180	300	470	750	1.2K	2.0K	3.3K	5.1K	8.2K	13K	22K	36K	56K	91K	150K	240K	390K	620K	1.0M	1.6M	2.7M	4.3M	6.8M	

Type (Power Rating)	Dimensions - mm L	D	d	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range	Resistance Tolerance
1/6 Watt ‡	3.3 ± 0.4	1.8 ± 0.3	0.5 ± 0.05	150V	300V	300V	70°C	-55°C ~ 155°C	1.0Ω ~ 10MΩ	±5%
1/4 Watt	6.3 ± 0.5	2.3 ± 0.3	0.6 ± 0.05	250V	500V	500V	70°C	-55°C ~ 155°C	1.0Ω ~ 10MΩ	±5%
1/2 Watt	9.0 ± 0.5	3.2 ± 0.5	0.6 ± 0.05	350V	700V	500V	70°C	-55°C ~ 155°C	1.0Ω ~ 10MΩ	±5%

‡ Power rating at 70°C = 1/6W

Features:
- Industry's lowest cost
- Available in 1/6, 1/4 and 1/2 watt; packaged in bulk or tape/reel (1/2 watt in bulk only)
- Exceeds carbon comp MIL-R-11 performance
- Standard tolerance: ±5%
- Exceptional long-term stability

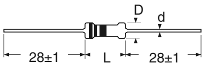

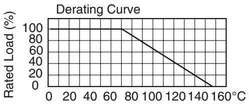

Description	Digi-Key Part No.†	Pricing 5	200	1,000	5,000	10,000	50,000
1/6 Watt, 5% Carbon Film Resistors, Bulk Package	(Value)EBK-ND	.26	4.30	12.47	11.18/M	10.32/M	9.46/M
1/6 Watt, 5% Carbon Film Resistors, Tape and Reel (5,000 pieces/reel – Order in multiples of 5,000)	(Value)ETR-ND	—	—	—	13.46/M	12.42/M	9.94/M
1/4 Watt, 5% Carbon Film Resistors, Bulk Package	(Value)QBK-ND	.27	3.82	8.55	8.13/M	7.56/M	6.13/M
1/4 Watt, 5% Carbon Film Resistors, Tape and Reel (5,000 pieces/reel – Order in multiples of 5,000)	(Value)QTR-ND	—	—	—	8.75/M	8.07/M	6.46/M
1/2 Watt, 5% Carbon Film Resistors, Bulk Package	(Value)H-ND	.26	3.76	12.22	11.28/M	10.34/M	9.40/M

"E" = Sixth Watt; "Q" = Quarter Watt; "H" = Half Watt. Please be sure to specify. Half watt available in bulk package only.
† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

Digi-Key® 1/6 Watt Resistor Assortment – RoHS Compliant

RSE200-ND 200 each of all standard values 5%, 1/6 watt carbon film resistors in the series 1.0Ω ~ 10MΩ (33,800 total pieces)...... **$409.00**

RS112-ND Set of 5 each of 73 standard 5%, 1/6 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through 1.0MΩ (365 total pieces)... **$16.96**

RS212-ND Set of 5 each of the 72 standard 5%, 1/6 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910KΩ (360 total pieces) **$16.99**

Digi-Key® 1/4 Watt Resistor Assortment – RoHS Compliant

RSQ200-ND 200 each of all standard values 5%, 1/4 watt carbon film resistors in the series 1.0Ω ~ 10MΩ (33,800 total pieces)...... **$239.00**

RS125-ND Set of 5 each of 73 standard 5%, 1/4 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through 1.0MΩ (365 total pieces)... **$14.95**

RS225-ND Set of 5 each of the 72 standard 5%, 1/4 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910KΩ (360 total pieces) **$14.95**

Digi-Key® 1/2 Watt Resistor Assortment – RoHS Compliant

RSH200-ND 200 each of all standard values 5%, 1/2 watt carbon film resistors in the series 1.0Ω ~ 10MΩ (33,800 total pieces)...... **$335.00**

RS150-ND Set of 5 each of 73 standard 5%, 1/2 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through 1.0MΩ (365 total pieces)... **$16.95**

RS250-ND Set of 5 each of the 72 standard 5%, 1/2 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910KΩ (360 total pieces) **$16.95**

YAGEO 1% Metal Film Fixed Resistors 1/4 Watt

MFR Series

The MFR series Metal Film Resistors are manufactured using vacuum sputtering system to deposit multiple layers of mixed metals and passivative materials onto a carefully treated high grade ceramic substrate, the resistors are coated with layers of light-blue lacquer.

General Specifications:

• **Power Rating:** 1/4 Watt • **Maximum Working Voltage:** 250V • **Maximum Overload Voltage:** 500V • **Rated Ambient Temperature:** 70°C • **Temperature Cycling:** -65°C ~ 150°C • **Resistance Range:** 10.0Ω ~ 1.00MΩ • **Resistance Tolerance:** ±1%.

Electrical Specifications:

All measurements are taken at 25°C at 1KHz and 65% relative humidity, unless stated otherwise. • **Type:** MF-25 • **Style:** RN-55 • **Power Rating:** 1/4 Watt • **Resistance Tolerance:** ±1% • **Temperature Coefficient:** ±100PPM/°C

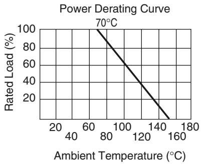

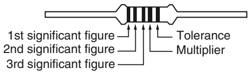

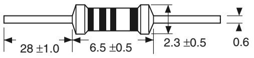

Characteristics

Temperature Cycling, -65°C ~ 150°C	(%)....... ±0.25
Low Temperature Operation, -65°C	(%)....... ±0.25
Short Time Overload	(%)....... ±0.20
Terminal Strength, 5 lb. pull	(%)....... ±0.20
Resistance to Soldering Heat, 350°C	(%)....... ±0.10
Moisture Resistance, Mil Std 202	(%)....... ±0.50
Life 1000 hrs. (Rated Power)	(%)....... ±0.50
Shock, 50G, 11ms	(%)....... ±0.20
Vibration – High Frequency, 10 ~ 2000Hz	(%)....... ±0.20
Insulation Resistance	(%)...... >10^{10}Ω
Failure-Rate	(%)....... 10^{-8}/h

1% Metal Film Resistors
Digi-Key® Assortment Kits

35% SAVINGS

Over Parts Purchased Separately

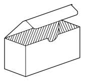

5 Each of Values 10Ω ~ 97.6Ω
RS1X-ND **$29.95**

5 Each of Values 100Ω ~ 976Ω
RS2X-ND **$29.95**

5 Each of Values 1.00KΩ ~ 9.76KΩ
RS3X-ND **$29.95**

5 Each of Values 10.0KΩ ~ 97.6KΩ
RS4X-ND **$29.95**

5 Each of Values 100KΩ ~ 1.00MΩ
RS5X-ND **$29.95**

Standard Resistor Values

10.0	18.7	34.8	64.9	121	226	422	787	1.47K	2.74K	5.11K	9.53K	17.8K	33.2K	61.9K	115K	215K	402K	750K
10.2	19.1	35.7	66.5	124	232	432	806	1.50K	2.80K	5.23K	9.76K	18.2K	34.0K	63.4K	118K	221K	412K	768K
10.5	19.6	36.5	68.1	127	237	442	825	1.54K	2.87K	5.36K	10.0K	18.7K	34.8K	64.9K	121K	226K	422K	787K
10.7	20.0	37.4	69.8	130	243	453	845	1.58K	2.94K	5.49K	10.2K	19.1K	35.7K	66.5K	124K	232K	432K	806K
11.0	20.5	38.3	71.5	133	249	464	866	1.62K	3.01K	5.62K	10.5K	19.6K	36.5K	68.1K	127K	237K	442K	825K
11.3	21.0	39.2	73.2	137	255	475	887	1.65K	3.09K	5.76K	10.7K	20.0K	37.4K	69.8K	130K	243K	453K	845K
11.5	21.5	40.2	75.0	140	261	487	909	1.69K	3.16K	5.90K	11.0K	20.5K	38.3K	71.5K	133K	249K	464K	866K
11.8	22.1	41.2	76.8	143	267	499	931	1.74K	3.24K	6.04K	11.3K	21.0K	39.2K	73.2K	137K	255K	475K	887K
12.1	22.6	42.2	78.7	147	274	511	953	1.78K	3.32K	6.19K	11.5K	21.5K	40.2K	75.0K	140K	261K	487K	909K
12.4	23.2	43.2	80.6	150	280	523	976	1.82K	3.40K	6.34K	11.8K	22.1K	41.2K	76.8K	143K	267K	499K	931K
12.7	23.7	44.2	82.5	154	287	536	1.00K	1.87K	3.48K	6.49K	12.1K	22.6K	42.2K	78.7K	147K	274K	511K	953K
13.0	24.3	45.3	84.5	158	294	549	1.02K	1.91K	3.57K	6.65K	12.4K	23.2K	43.2K	80.6K	150K	280K	523K	976K
13.3	24.9	46.4	86.6	162	301	562	1.05K	1.96K	3.65K	6.81K	12.7K	23.7K	44.2K	82.5K	154K	287K	536K	1.00M
13.7	25.5	47.5	88.7	165	309	576	1.07K	2.00K	3.74K	6.98K	13.0K	24.3K	45.3K	84.5K	158K	294K	549K	
14.0	26.1	48.7	90.9	169	316	590	1.10K	2.05K	3.83K	7.15K	13.3K	24.9K	46.4K	86.6K	162K	301K	562K	
14.3	26.7	49.9	93.1	174	324	604	1.13K	2.10K	3.92K	7.32K	13.7K	25.5K	47.5K	88.7K	165K	309K	576K	
14.7	27.4	51.1	95.3	178	332	619	1.15K	2.15K	4.02K	7.50K	14.0K	26.1K	48.7K	90.9K	169K	316K	590K	
15.0	28.0	52.3	97.6	182	340	634	1.18K	2.21K	4.12K	7.68K	14.3K	26.7K	49.9K	93.1K	174K	324K	604K	
15.4	28.7	53.6	100	187	348	649	1.21K	2.26K	4.22K	7.87K	14.7K	27.4K	51.1K	95.3K	178K	332K	619K	
15.8	29.4	54.9	102	191	357	665	1.24K	2.32K	4.32K	8.06K	15.0K	28.0K	52.3K	97.6K	182K	340K	634K	
16.2	30.1	56.2	105	196	365	681	1.27K	2.37K	4.42K	8.25K	15.4K	28.7K	53.6K	100K	187K	348K	649K	
16.5	30.9	57.6	107	200	374	698	1.30K	2.43K	4.53K	8.45K	15.8K	29.4K	54.9K	102K	191K	357K	665K	
16.9	31.6	59.0	110	205	383	715	1.33K	2.49K	4.64K	8.66K	16.2K	30.1K	56.2K	105K	196K	365K	681K	
17.4	32.4	60.4	113	210	392	732	1.37K	2.55K	4.75K	8.87K	16.5K	30.9K	57.6K	107K	200K	374K	698K	
17.8	33.2	61.9	115	215	402	750	1.40K	2.61K	4.87K	9.09K	16.9K	31.6K	59.0K	110K	205K	383K	715K	
18.2	34.0	63.4	118	221	412	768	1.43K	2.67K	4.99K	9.31K	17.4K	32.4K	60.4K	113K	210K	392K	732K	

							Pricing			
Description	**Value Range**	**Digi-Key Part No.†**	**5**	**200**	**1,000**	**5,000**	**10,000**	**50,000**	**100,000**	**500,000**	**1,000,000**
1/4 Watt, Bulk Package	10.0 ~ 1.00MΩ	(Value)XBK-ND	.49	7.41	19.16	16.36/M	14.06/M	11.25/M	—	—	—
1/4 Watt, Tape and Reel – (5,000 pcs./reel – Order in multiples of 5,000)	10.0 ~ 1.00MΩ	(Value)XTR-ND	—	—	—	18.57/M	15.84/M	12.87/M	10.89/M	8.91/M	7.92/M

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

YAGEO 5% Metal Oxide Film Resistors

RSF Series

These Metal Oxide Resistors offer lower cost alternatives to Carbon Composition Resistors and General Purpose Metal Films. They can replace many low power General Purpose wirewound applications. These Metal Oxides meet overload tests in accordance with UL specification #1412 without producing a fire hazard. They withstand solvents in accordance with article Mil-Std-202E without producing mechanical or electrical damage.

Features: High surge/overload capability. Non-inductive design. Coating and marking resist Trichlorethelyne, Freon, and other cleaning agents. The RFS Series resistors are coated with layers of gray flame-proof lacquer.

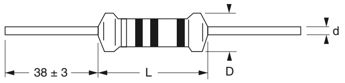

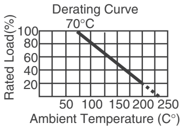

Type	Max. Working Volt.	Dimensions (mm) L	D	d
1W	350	11.5 ± 1.0	4.5 ± 0.5	0.8 ± 0.05
2W	350	15.5 ± 1.0	5.0 ± 0.5	0.8 ± 0.05

Digi-Key® 1 and 2 Watt Resistor Assortment Kits

255 resistors per assortment. Five each of the values in the ranges listed below:

	0.47Ω ~ 56Ω	62Ω ~ 7.5KΩ	8.2KΩ ~ 1.0M	Price Each
1 Watt	**RS101-ND**	**RS201-ND**	**RS301-ND**	**$26.95**
2 Watt	**RS102-ND**	**RS202-ND**	**RS302-ND**	**$29.95**

Standard Resistor Values

0.47	1.2	3.3	8.2	22	56	150	390	1.0K	2.7K	6.8K	18K	47K	120K	330K	820K
0.51	1.3	3.6	9.1	24	62	160	430	1.1K	3.0K	7.5K	20K	51K	130K	360K	910K
0.56	1.5	3.9	10	27	68	180	470	1.2K	3.3K	8.2K	22K	56K	150K	390K	1.0M
0.62	1.6	4.3	11	30	75	200	510	1.3K	3.6K	9.1K	24K	62K	160K	430K	
0.68	1.8	4.7	12	33	82	220	560	1.5K	3.9K	10K	27K	68K	180K	470K	
0.75	2.0	5.1	13	36	91	240	620	1.6K	4.3K	11K	30K	75K	200K	510K	
0.82	2.2	5.6	15	39	100	270	680	1.8K	4.7K	12K	33K	82K	220K	560K	
0.91	2.4	6.2	16	43	110	300	750	2.0K	5.1K	13K	36K	91K	240K	620K	
1.0	2.7	6.8	18	47	120	330	820	2.2K	5.6K	15K	39K	100K	270K	680K	
1.1	3.0	7.5	20	51	130	360	910	2.4K	6.2K	16K	43K	110K	300K	750K	

		Pricing					
Description	**Digi-Key Part No.†**	**1**	**10**	**100**	**1,000**	**5,000**	**10,000**
1 Watt, 5% Metal Oxide Film Resistors, Bulk Package, 0.47 ~ 0.91Ω	(Value)W-1-ND	.22	1.62	10.40	63.55	56.62/M	50.85/M
1 Watt, 5% Metal Oxide Film Resistors, Bulk Package, 1.0 ~ 1.0MΩ	(Value)W-1-ND	.15	1.12	7.20	44.00	39.20/M	35.20/M
2 Watt, 5% Metal Oxide Film Resistors, Bulk Package, 0.47 ~ 0.91Ω	(Value)W-2-ND	.23	1.73	11.13	68.01	60.59/M	54.41/M
2 Watt, 5% Metal Oxide Film Resistors, Bulk Package, 1.0 ~ 1.0MΩ	(Value)W-2-ND	.18	1.35	8.65	52.88	47.12/M	42.31/M

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).

CRT Series Thin Film Precision Chip Resistors

.1% 1/10W 0603, .1% 1/8W 0805 and 1206 Series

The CRT series of SMD precision chip resistors offer Absolute Tolerances and TCRs as low as 0.01% and 5ppm respectively. They are packaged in industry standard chip sizes ranging from 0402 to 1206 formats and are used in a wide range of circuits requiring very low noise and high accuracy.

Operating Temperature Range: -55 ~ 155°C
Temperature Coefficient: 5 ~ 50ppm/°C

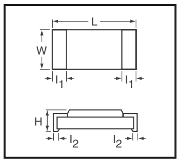

Dimensions (mm)	Series 0603	0805	1206
L	1.55 ± 0.10	2.00 ± 0.15	3.05 ± 0.15
W	0.80 ± 0.10	1.25 ± 0.15	1.55 ± 0.15
H	0.45 ± 0.15	0.55 ± 0.10	0.55 ± 0.10
l_1	0.30 ± 0.20	0.30 ± 0.20	0.42 ± 0.20
l_2	0.30 ± 0.20	0.40 ± 0.25	0.35 ± 0.25

Resistance Values (Ω) – 0603, 0805 and 1206 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)
10(**10R0**)	10K (**1002**)	100K (**1003**)	1.0M (**1004**)§

§ Value not available in 0603 series

Description	Value Range (Ω)	Working Voltage (Maximum)	Overload Voltage (Maximum)	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape and Reel Pricing 5,000	Bourns Part No.
0603, .1%, 1/10W	10 ~ 100K	50V	100V	CRT0603-BY-(**Code**)ELFCT-ND	.25	1.56	11.70	CRT0603-BY-(**Code**)ELFTR-ND	98.00/M	CRT0603-BY-(Code)ELF
0805, .1%, 1/8W	10 ~ 1.0M	100V	200V	CRT0805-BY-(**Code**)ELFCT-ND	.28	1.75	13.14	CRT0805-BY-(**Code**)ELFTR-ND	110.00/M	CRT0805-BY-(Code)ELF
1206, .1%, 1/8W	10 ~ 1.0M	150V	300V	CRT1206-BY-(**Code**)ELFCT-ND	.35	2.23	16.74	CRT1206-BY-(**Code**)ELFTR-ND	140.00/M	CRT1206-BY-(Code)ELF

† For complete part number, substitute the corresponding code from the Resistance Value chart for **(Code)**.

CRA Series High Power Current Sense Chip Resistors

1% 3W 2512 Series

The CRA series of SMD power chip resistors are used for current measurement and circuit protection applications. It is rated to 3 Watts of power in an industry standard 2512 package with a resistance range of 10mΩ ~ 100mΩ and a TCR of ±75ppm.

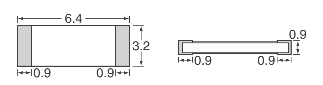

Dimensions in mm

Resistance Values (Ω)

Value (Code)	Value (Code)
.01 (**R010**)	.05 (**R050**)
.02 (**R020**)	.08 (**R080**)
.04 (**R040**)	.10 (**R100**)

Power Rating @ 70°C	Insulation Resistance	Operating Temperature Range	Temperature Coefficient	Tolerance
3W	> 100MΩ	-55°C ~ 170°C	±75ppm/°C	±1%

Description	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Digi-Key Part No.†	Tape & Reel Pricing 4,000	Bourns Part No.
1%, 3W, 2512	.01 ~ .10	CRA2512-FZ-(**Code**)ELFCT-ND	.49	3.12	23.40	CRA2512-FZ-(**Code**)ELFTR-ND	195.00/M	CRA2512-FZ-(Code)ELF

† For complete part number, substitute the corresponding code from the Resistance Value chart for **(Code)**.

CHF Series Power RF Chip Resistors/Terminators

5% 1206, 190104, 2010, 3523, 3725 Series

The CHF RF Power Resistors are used in high power 50Ω terminations with excellent RF performance characteristics. Their typical function is in a "Fail Safe" mode to dissipate the transmission power in High Power RF Amplifiers. The CHF series is manufactured using thick film technology on special ceramics.

Applications: Radio/TV, telecommunications (WCDMA, CDMA, GSM), wireless technologies (Wi Max), radar and medical equipment

Dimensions in mm

Fig. 1 – 1206 Series

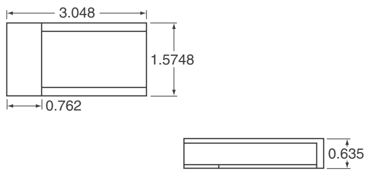

Fig. 2 – 190104 Series

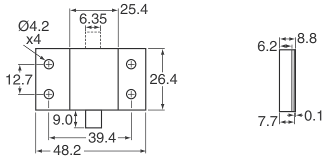

Fig. 3 – 2010 Series, Terminator

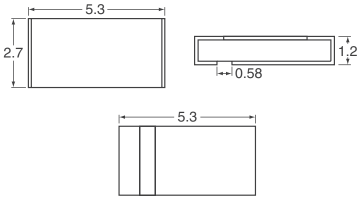

Fig. 4 – 2010 Series, Resistor

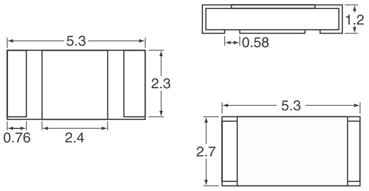

Fig. 5 – 3523 Series

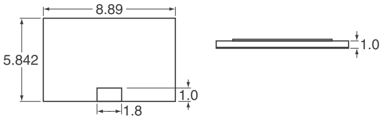

Fig. 6 – 3725 Series

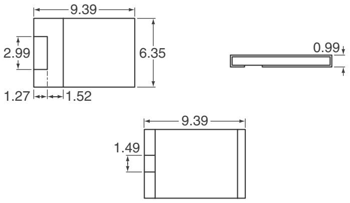

Fig.	Description	Power Rating @ 70°C	Resistance Value (Ω)	Voltage Standing Wave Ratio (Max.)	Frequency (GHz)	Digi-Key Part No.	Price Each 1	10	50	Bourns Part No.
					Terminators					
1	1206 Series	20W	50	1.25V	DC-4	CHF1206CNT500LW-ND	4.04	3.68	3.17	CHF1206CNT500LW
2	190104 Series, Flanged	800W	50	1.2V	1.0	CHF190104CBF500L-ND	77.99	70.90	60.98	CHF190104CBF500L
3	2010 Series	10W	50	1.2V	2	CHF2010CNP500LX-ND	5.72	5.20	4.48	CHF2010CNP500LX
5	3523 Series	100W	50	1.1V	5	CHF3523DNT500LW-ND	7.81	7.10	6.11	CHF3523DNT500LW
6	3725 Series, SMT	40W	50	1.25V	3	CHF3725CNP500LX-ND	7.40	6.73	5.79	CHF3725CNP500LX
					Resistors					
2	190104 Series, Flanged	800W	25	1.2V	1.0	CHF190104CBF250R-ND	77.99	70.90	60.98	CHF190104CBF250R
			100	1.2V	1.0	CHF190104CBF101R-ND	77.99	70.90	60.98	CHF190104CBF101R
4	2010 Series	10W	100	1.2V	2.2	CHF2010CNP500LX-ND	5.72	5.20	4.48	CHF2010CNP500LX

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

HUNTINGTON ELECTRIC, INC.

Silicone Coated Wirewound Resistors – 1, 3, 5 Watt, 1%

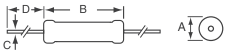

Series	A ±.81mm	B ±.81mm	C	D
ALSR-1	2.79	9.78	.51	38.10
ALSR-3	5.08	13.46	.81	38.10
ALSR-5	7.92	23.80	.81	38.10

Electrical Specifications

Series	ALSR-1	ALSR-3, ALSR-5
Resistance Tolerance	±1%	±1%
Dielectric Withstanding Voltage	500VAC	1000VAC
Short Time Overload	5 X rated wattage for 5 seconds	

RESISTANCE VALUE CHART

.10	1.5	20	50	200	470	1.0K	3.5K	8.2K
.13	2.0	22	56	220	500	1.1K	3.9K	10.0K
.15	3.0	25	68	225	560	1.2K	4.0K	12.5K
.20	4.0	27	75	250	600	1.5K	4.7K	15.0K
.25	5.0	30	82	270	680	1.8K	5.0K	20.0K
.30	7.5	33	100	300	700	2.0K	5.6K	25.0K
.33	10	35	120	330	750	2.2K	6.0K	
.50	12	39	125	350	800	2.5K	6.8K	
.75	15	40	150	390	820	2.7K	7.5K	
1.0	18	47	180	400	900	3.0K	8.0K	

Resistance Range (Ω)	Wattage	Digi-Key Part No.†	Price Each 1	10	25	50	100	Huntington Part No.
.10 ~ .75	1	ALSR1F-(Value)-ND	2.08	1.86	—	1.57	1.16	ALSR-1-(Value)-1%
1.0 ~ 900	1	ALSR1F-(Value)-ND	2.05	1.83	—	1.55	1.14	ALSR-1-(Value)-1%
1.0K ~ 3.0K	1	ALSR1F-(Value)-ND	2.11	1.89	—	1.60	1.17	ALSR-1-(Value)-1%
.10 ~ 10.0K	3	ALSR3F-(Value)-ND	1.45	—	1.22	—	1.02	ALSR-3-(Value)-1%
.10 ~ 900	5	ALSR5F-(Value)-ND	1.43	—	1.20	—	1.00	ALSR-5-(Value)-1%
1.0K ~ 8.2K	5	ALSR5F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-5-(Value)-1%
10.0K ~ 25.0K	5	ALSR5F-(Value)-ND	1.43	—	1.20	—	1.00	ALSR-5-(Value)-1%

† For complete part number, substitute value from Resistance Value Chart for (Value).

Silicone Coated Wirewound Resistors – 1, 3, 5, 10 Watt, 5%

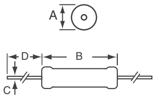

Series	A ±.81mm	B ±.81mm	C	D
ALSR-1	2.79	9.78	.51	38.10
ALSR-3	5.08	13.46	.81	38.10
ALSR-5	7.92	23.80	.81	38.10
ALSR-10	7.92	45.72	.81	38.10

RESISTANCE VALUE CHART

.10	4.0	35	180	500	1.5K	4.5K	11.0K
.13	5.0	39	200	560	1.75K	4.7K	12.0K
.15	7.5	40	220	600	1.8K	5.0K	12.5K
.20	10	47	225	680	2.0K	5.6K	13.5K
.25	12	50	250	700	2.2K	6.0K	15.0K
.30	15	56	270	750	2.25K	6.8K	16.0K
.33	18	68	300	800	2.5K	7.0K	17.5K
.50	20	75	330	820	2.7K	7.5K	18.0K
.75	22	82	350	900	3.0K	8.0K	20.0K
1.0	25	100	390	1.0K	3.3K	8.2K	22.0K
1.5	27	120	400	1.1K	3.5K	8.5K	22.5K
2.0	30	125	450	1.2K	3.9K	9.0K	25.0K
3.0	33	150	470	1.25K	4.0K	10.0K	

Electrical Specifications:

Series	ALSR-1	ALSR-3	ALSR-5	ALSR-10
Resistance Tolerance	±5%	±5%	±5%	±5%
Power Rating	1 Watts at 25°C	3 Watts at 25°C	5 Watts at 25°C	10 Watts at 25°C
Dielectric Withstanding Voltage	500VAC	1000VAC	1000VAC	1000VAC
Short Time Overload	5 X rated wattage for 5 seconds		10 X rated wattage for 5 seconds	

Resistance Range (Ω)	Wattage	Digi-Key Part No.†	Price Each 1	10	50	100	Huntington Part No.
.10 ~ .75	1	ALSR1J-(Value)-ND◆	1.72	1.54	1.30	.96	ALSR-1-(Value)
1.0 ~ 900	1	ALSR1J-(Value)-ND◆	1.66	1.48	1.25	.92	ALSR-1-(Value)
1.0K ~ 10.0K	1	ALSR1J-(Value)-ND◆	1.95	1.74	1.47	1.08	ALSR-1-(Value)
.10 ~ 4.7K	3	ALSR3J-(Value)-ND◆	1.46	1.31	1.11	.81	ALSR-3-(Value)
5.0K ~ 10.0K	3	ALSR3J-(Value)-ND◆	1.59	1.43	1.21	.89	ALSR-3-(Value)
.10 ~ 25.0K	5	ALSR5J-(Value)-ND◆	1.63	1.45	1.23	.90	ALSR-5-(Value)
.10 ~ .75	10	ALSR10-(Value)-ND	2.08	1.86	1.57	1.16	ALSR-10-(Value)
1.0 ~ 680, 750 ~ 900	10	ALSR10-(Value)-ND◆	1.79	1.60	1.35	.99	ALSR-10-(Value)
1.0K ~ 2.7K	10	ALSR10-(Value)-ND◆	1.92	1.72	1.45	1.07	ALSR-10-(Value)
3.0K ~ -9.0K	10	ALSR10-(Value)-ND◆	2.21	1.98	1.67	1.23	ALSR-10-(Value)
10.0K ~ 25.0K	10	ALSR10-(Value)-ND◆	2.44	2.18	1.84	1.35	ALSR-10-(Value)

◆ ***RoHS Compliant*** † For complete part number, substitute value from Resistance Value Chart for (Value).

Vitreous Enamel Wirewound Power Resistors – 8, 12 Watt

Series	A	B	C	D	E	F
FVTS-5	7.94	25.40	4.76	11.11	.81	50.80
FVTS-10	7.94	44.45	4.76	11.11	.81	50.80

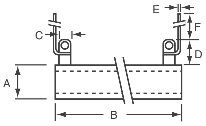

Electrical Specifications:

Series	FVTS-5	FVTS-10
Resistance Tolerance	±5% 1Ω and above ±10% 1Ω and below	±5% 1Ω and above ±10% 1Ω and below
Power Rating	8 Watts at 25°C	12 Watts at 25°C
Dielectric Withstanding Voltage	1000VAC	1000VAC
Short Time Overload	5 X rated wattage for 5 seconds	10 X rated wattage for 5 seconds

RESISTANCE VALUE CHART

2.0	15	75	250	600	1.25K	3.5K	7.0K	12.0K	50.0K
3.0	20	100	300	750	1.5K	4.0K	7.5K	15.0K	
5.0	25	125	400	900	2.0K	4.5K	8.0K	20.0K	
7.5	35	150	450	1.0K	2.5K	5.0K	9.0K	25.0K	
10	50	200	500	1.2K	3.0K	6.0K	10.0K	40.0K	

Resistance Range (Ω)	Wattage	Digi-Key Part No.†	Price Each 1	25	100	250	Huntington Part No.
5.0 ~ 4.5K	8	FVTS5-(Value)-ND	2.75	2.35	1.80	1.60	FVTS-5-(Value)
5.0K ~ 9.0K	8	FVTS5-(Value)-ND	2.94	2.52	1.93	1.72	FVTS-5-(Value)
10.0K	8	FVTS5-(Value)-ND	2.64	2.26	1.73	1.54	FVTS-5-(Value)
2.0 ~ 5.0K, 7.5K ~ 9.0K	12	FVTS10-(Value)-ND	3.41	2.92	2.24	1.99	FVTS-10-(Value)
10.0K ~ 20.0K	12	FVTS10-(Value)-ND	3.69	3.15	2.42	2.15	FVTS-10-(Value)
25.0K	12	FVTS10-(Value)-ND	4.07	3.48	2.67	2.37	FVTS-10-(Value)
40.0K, 50.0K	12	FVTS10-(Value)-ND	5.20	4.45	3.41	3.03	FVTS-10-(Value)

† For complete part number, substitute value from Resistance Value Chart for (Value).

Vitreous Enamel Wirewound Power Resistors – 25, 50, 100, 225 Watt

RESISTANCE VALUE CHART

1.0	25	250	4.0K	50.0K
2.0	50	500	5.0K	
3.0	100	750	10.0K	
5.0	150	1.0K	12.0K	
10	200	2.5K	25.0K	

AVT

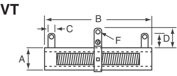

FVT

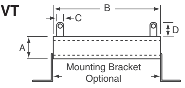

Series	A	B	C	D	E	F
AVT25	14.29	50.80	6.35	14.29	17.46	4.22
AVT50	14.29	101.60	6.35	14.29	17.46	4.22
AVT100	19.05	165.10	6.35	14.29	17.46	4.22
AVT200	28.58	266.70	7.94	15.88	22.23	4.22
FVT25	14.29	50.80	6.35	14.29	—	—
FVT50	14.29	101.60	6.35	14.29	—	—
FVT100	19.05	165.10	6.35	14.29	—	—
FVT200	28.58	266.70	7.94	15.88	—	—

ADJUSTABLE AVT SERIES: • Resistance Tolerance: ±10%, wattage rating applied only when the entire resistance is in the circuit **• Dielectric Withstanding Voltage:** 1000VAC **• Short Time Overload:** 10 times the rated wattage for 5 seconds

FIXED FVT SERIES: • Resistance Tolerance: ±5% above 1Ω **• Dielectric Withstanding Voltage:** 1000VAC **• Short Time Overload:** 10 times the rated wattage for 5 seconds

Resistance Range (Ω)	Wattage	Digi-Key Part No.†	Price Each 1	10	25	100	Huntington Part No.
2.0 ~ 3.0, 10, 25, 100, 500 ~ 4.0K	25	FVT25-(Value)-ND	3.45	—	2.50	1.97	FVT-25-(Value)
5.0K	25	FVT25-(Value)-ND	3.71	—	2.69	2.12	FVT-25-(Value)
10.0K ~ 12.0K	25	FVT25-(Value)-ND	3.97	—	2.88	2.27	FVT-25-(Value)
25.0K ~ 50.0K	25	FVT25-(Value)-ND	4.99	—	3.62	2.84	FVT-25-(Value)
1.0 ~ 100, 500, 1.0K, 5.0K	50	FVT50-(Value)-ND	5.02	—	3.64	2.86	FVT-50-(Value)
1.0, 2.0, 5.0	100	FVT100-(Value)-ND	8.61	—	6.24	4.91	FVT-100-(Value)
10, 50, 100, 250, 1.0K	100	FVT100-(Value)-ND	7.83	—	5.67	4.46	FVT-100-(Value)
1.0, 3.0, 5.0	225	FVT200-(Value)-ND	12.98	11.69	10.39	9.74	FVT-200-(Value)
10, 50, 100, 250, 500, 1.0K	225	FVT200-(Value)-ND	10.82	9.74	8.66	8.12	FVT-200-(Value)
1.0, 3.0 ~ 100, 250, 100	25	AVT25-(Value)-ND	5.90	5.43	4.49	3.78	AVT-25-(Value)
1.0 ~ 100, 500, 1.0K	50	AVT50-(Value)-ND	6.90	6.35	5.25	4.42	AVT-50-(Value)
1.0, 2.0	100	AVT100-(Value)-ND	13.48	12.40	10.25	8.63	AVT-100-(Value)
10, 50, 100, 250, 1.0K	100	AVT100-(Value)-ND	9.95	9.16	7.57	6.37	AVT-100-(Value)
1.0 ~ 5.0	225	AVT200-(Value)-ND	23.48	21.60	17.85	15.03	AVT-200-(Value)
10 ~ 500	225	AVT200-(Value)-ND	16.90	15.55	12.85	10.82	AVT-200-(Value)
1.0K	225	AVT200-(Value)-ND	17.75	16.33	13.49	11.36	AVT-200-(Value)
Mounting Bracket for 25/50W Resistors		B1003-ND‡	.99/2	.39	—	.28	B1003-1
Mounting Bracket for 100W Resistors		B1002-ND‡	1.17/2	.46	—	.33	B1002-1
Mounting Bracket for 200W Resistors		B1001-ND‡	1.26/2	.49	—	.35	B1001-1

† For complete part number, substitute value from Resistance Value Chart for (Value). ‡ Requires 2 brackets per resistor

HUNTINGTON ELECTRIC, INC.

Ultra Precision Wirewound Resistors 1/8 Watt, 1/4 Watt, .01, .05, .1%

MR102 and MR106 Series

RESISTANCE VALUE CHART

100	350	10K
250	1K	100K

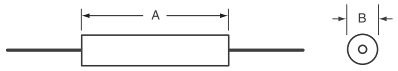

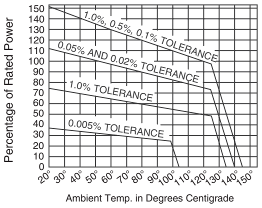

Series	Value Range (Ω)	Res. Tol. (%)	Max. Wattage (W)	Max. Voltage (V)	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	100	Huntington Part No.
MR102	100 ~ 10K 100K	±0.01	1/8	125	9.52	4.75	MR102-(Value)-.01-ND MR102-100K-.01-ND	5.95 7.15	4.76 5.72	3.93 4.72	3.69 4.44	MR102-xxx-.01% MR102-100K-.01%
	100 ~ 10K 100K	±0.5	1/8	125	9.52	4.75	MR102-(Value)-.05-ND MR102-100K-.05-ND	4.83 5.75	3.86 4.60	3.19 3.80	3.00 3.57	MR102-xxx-.05% MR102-100K-.05%
	100 ~ 10K 100K	±.1	1/8	125	9.52	4.75	MR102-(Value)-.1-ND MR102-100K-.1-ND	4.40 7.15	3.52 5.72	2.91 4.72	2.73 4.44	MR102-xxx-.1% MR102-100K-.1%
MR106	100 ~ 10K 100K	±0.01	1/4	250	12.70	6.35	MR106-(Value)-.01-ND MR106-100K-.01-ND	5.95 7.15	4.76 5.72	3.93 4.72	3.69 4.44	MR106-xxx-.01% MR106-100K-.01%
	100 ~ 10K 100K	±0.5	1/4	250	12.70	6.35	MR106-(Value)-.05-ND MR106-100K-.05-ND	4.83 5.75	3.86 4.60	3.19 3.80	3.00 3.57	MR106-xxx-.05% MR106-100K-.05%
	100 ~ 10K 100K	±.1	1/4	250	12.70	6.35	MR106-(Value)-.1-ND MR106-100K-.1-ND	4.40 7.15	3.52 5.72	2.91 4.72	2.73 4.44	MR106-xxx-.1% MR106-100K-.1%

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Medium Voltage Chassis Mount Resistors – 600 Watt, 10% HPK600 Series

Dim. in mm

Specifications:
- Operating Temperature: -55°C~150°C • Temperature Coefficient: ±150 PPM/°C • Power Rating: 600 Watts @ 85°C heat sink temperature** • Electric Strength Voltage: 6 KVAC, 50 HZ • Insulation Resistance: 10 GΩ minimum @ 500 V • Maximum Working Voltage: 5000 VDC • Short Time Overload: 1000 Watts @ 70°C for 10 seconds • Single Shot Voltage: Up to 12kv normal wave • Derating: 8.73 W/C

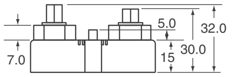

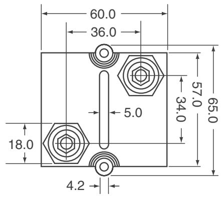

Resistance Range (Ω)	Resistance Tolerance	Digi-Key* Part No.	Price Each 1	10	25	100	Huntington Part No.
2 ~ 10	±10%	HPK600K(Value)R-ND	98.18	83.74	79.41	75.08	HPK600KxxxR
50 ~ 10000	±10%	HPK600K(Value)R-ND	92.82	79.17	75.08	70.98	HPK600KxxxR

RESISTANCE VALUE CHART

2	4	10	75	500	5000
3	5	50	100	1000	10000

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value). **This value only valid by using thermal conduction to the heat sink. The flatness of the cooling plate must be better than 0.05 mm overall and the roughness of the surface should not exceed 6.5um.

Miniature Oval Wirewound Resistors – 10, 20 Watt, 5, 10% FSOT Series

H.E.I. Miniature Oval Wirewound Resistors are ideally suited for applications where space is limited and the mounting surface can be utilized for heat dissipation purposes. The aluminum mounting brackets extend through the resistor core and equalize heat distribution while conducting heat directly into the mounting surface.

Specifications:
- Mounting Brackets: Constructed of aluminum and are an integral part of the resistor • Temperature Coefficient: ±400 PPM/°C 1Ω ~ 20Ω, ±260 PPM/°C 20Ω and above • Dielectric Withstanding Voltage: 500 VAC measured from terminals to mounting brackets • Overload: 10 X rated wattage for 5 seconds • Terminals: Hot tin dipped • Coating: Silicone • Core: Steatite ceramic

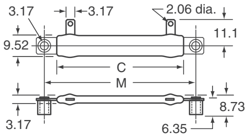

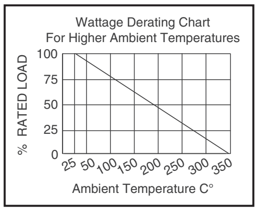

Series	Resistance Range (Ω)	Resistance Tolerance	Wattage	Dim. (mm) C	M	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
FSOT-10	.25 ~ .5 1 ~ 5K	10% 5%	10	19.1	25.4	FSOT10-(Value)-ND	3.95	3.16	2.61	2.45	FSOT10-xxx-10% FSOT10-xxx-5%
FSOT-20	.25 ~ .5 1 ~ 5K	10% 5%	20	50.8	58.7	FSOT20-(Value)-ND	5.25	4.20	3.47	3.26	FSOT20-xxx-10% FSOT20-xxx-5%

RESISTANCE VALUE CHART

.25	1	10	50	250	1K	5K
.5	5	25	100	500	2.5K	

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value). **Note:** Wattage Rating is based upon a single resistor mounted on a 10" x 10" x .040" steel mounting surface or equivalent.

Standard Oval Silicone Resistors — 30, 40, 55, Watt 5, 10% FSOT Series

Specifications:
- Mounting Brackets: Standard oval resistors are supplied with a plated steel mounting bracket and aluminum standoff • Temperature Coefficient: ±400 PPM/°C 1Ω ~ 20Ω, ±260 PPM/°C 20Ω and above • Dielectric Withstanding Voltage: Measured from terminals to mounting brackets. 1000 VAC • Overload: 10 x rated wattage for 5 seconds • Terminals: Hot tin dipped • Coating: Silicone • Core: Ceramic

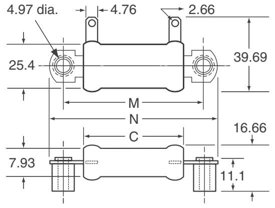

Series	Resistance Range (Ω)	Resistance Range (%)	Watt	Dimensions (mm) C	M	N	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
FSOT-30	.25 ~ .5K 1 ~ 5K	10% 5%	30	31.75	50.8	63.5	FSOT30-(Value)-ND	7.88	5.99	5.04	4.73	FSOT30-xxx-10% FSOT30-xxx-5%
FSOT-40	.25 ~ .5K 1 ~ 5K	10% 5%	40	50.8	69.9	82.5	FSOT40-(Value)-ND	8.53	6.48	5.46	5.12	FSOT40-xxx-10% FSOT40-xxx-5%
FSOT-55	.25 ~ .5K 1 ~ 5K	10% 5%	55	88.9	108.0	120.7	FSOT55-(Value)-ND	9.20	7.00	5.89	5.52	FSOT55-xxx-10% FSOT55-xxx-5%

RESISTANCE VALUE CHART

.25	1	10	50	250	1K	5K
.5	5	25	100	500	2.5K	

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value). **Note:** Wattage Rating is based upon a single resistor mounted on a 254mm x 254mm x 1.02mm steel mounting surface or equivalent.

LO-OHM Power Resistors — 1, 3, 4, 5 Watt, 1%

Huntington Electric's Lo-Ohm resistors are ideal for current sensing applications in test instruments, power amplifiers, and switching and linear power supplies. These resistors are transfer-molded in high-temperature resin, providing a high power dissipation to size characteristic. This construction also provides superior thermal shock and moisture resistance. The encapsulation will not peel, flake or deteriorate with commonly used cleaning solvents, including Freon, and aqueous cleaning.

Specifications: • Resistance Tolerance: ±1% • Dielectric Strength: 1000 VAC (except 500 VAC for MTL-1A) • Insulation Resistance: 10,000 MΩ (dry) • Short Term Overload: 5 seconds @ 5 x rated power **Applications:** • Ideal for current sensing applications • Low inductance: Typically 7nH • Standard Resistance Tolerance to ±1% • Superior thermal shock and moisture resistance

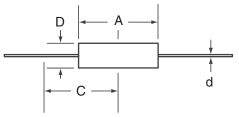

Series	Resistance Range (Ω)	Resistance Tolerance	Wattage Rating	Dimensions (mm) A	D	C	d (AWG**)	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
MTL-1A	.005 ~ .08	1%	1	10.9	3.0	15.0	22	MTL-1A-(Value)-ND	2.85	2.14	1.67	1.57	MTL-1A-xxx-1%
MTL-2B	.005 ~ .08	1%	3	14.7	5.1	16.9	20	MTL-2B-(Value)-ND	2.91	2.19	1.70	1.61	MTL-2B-xxx-1%
MTL-3	.005 ~ .08	1%	4	15.2	6.4	17.1	20	MTL-3-(Value)-ND	3.00	2.25	1.75	1.65	MTL-3-xxx-1%
MTL-5	.005 ~ .08	1%	5	22.6	8.5	20.8	18	MTL-5-(Value)-ND	3.15	2.37	1.84	1.74	MTL-5-xxx-1%

RESISTANCE VALUE CHART

.005	.01	.02	.03	.05	.07	.08

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value). **Lead Diameter: 20 AWG = 0.81mm (0.032"); 22 AWG = 6.4mm (0.25")

HUNTINGTON ELECTRIC, INC.

Capacitor Mount Silicone Resistors – 16, 20, 22 Watt, 5%

RESISTANCE VALUE CHART

2K	5K	10K	20K	25K	30K	35K

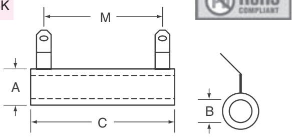

Series	Resistance Range (Ω)	Resistance Tolerance	Watt	Dimensions (mm) A	B	C	M	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
CMS-16	2K ~ 35K	5%	16	14.29	7.94	31.75	22.22	CMS16-(Value)-ND	5.25	4.20	3.47	3.26	CMS-16-xxx-5%
CMS-20	2K ~ 35K	5%	20	14.29	7.94	44.45	28.57	CMS20-(Value)-ND	5.90	4.72	3.90	3.66	CMS-20-xxx-5%
CMS-22	2K ~ 35K	5%	22	14.29	7.94	44.45	28.57	CMS22-(Value)-ND	6.18	4.94	4.08	3.83	CMS-22-xxx-5%

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value).

Printed Circuit Board Mount Silicone Resistors – 7, 10, 20 Watt, 5%

Quick and easy installation with built-in standoffs to keep the printed circuit board cool, make this a superior resistor for application where the resistor is to be mounted directly onto a board. **Specifications:** • Temperature Coefficient: 0 ±400 ppm/°C 1Ω, 0 ±260 ppm/°C 20Ω or above • Dielectric Withstanding Voltage: 500 VAC • Terminals: .025 x 0.35 pre-tinned rectangular pin (Recommend .078" diameter hole for mounting) • Coating: Silicone • Overload: 10 x rated power for 5 seconds • Core: Steatite ceramic

RESISTANCE VALUE CHART

.1	10	250	5K
.5	25	500	
1	50	1K	
5	100	2.5K	

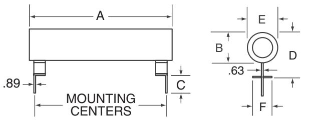

Type	Resistance Range (Ω)	Resistance Tolerance (%)	Watts	Mounting Centers Standard	Core A	Core B	Typ. C	Max. D	Max. E	Max. F	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
FS-5	.1 ~ 5K	5	7	15.24	25.40	7.94	3.81	15.24	10.41	12.70	FS5-(Value)-ND	4.60	3.68	3.04	2.86	FS-5-xxx-5%
FS-10	.1 ~ 5K	5	10	33.02	44.45	7.94	3.81	15.24	10.41	12.70	FS10-(Value)-ND	5.25	4.20	3.47	3.26	FS-10-xxx-5%
FS-20	.1 ~ 5K	5	20	43.18	50.80	11.11	5.08	18.40	13.49	13.49	FS20-(Value)-ND	5.90	4.72	3.90	3.66	FS-20-xxx-5%
FS-20S	.1 ~ 5K	5	20	55.88	60.32	11.11	5.08	18.40	13.49	13.49	FS20S-(Value)-ND	5.90	4.72	3.90	3.66	FS-20S-xxx-5%

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value).

Metal Case Resistors – 20, 40, 50 Watts, 10% 12M Series

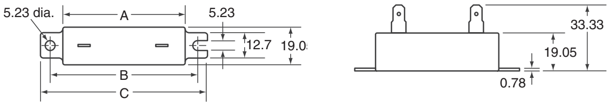

RESISTANCE VALUE CHART

1	10	25	100	500

Series	Resistance Range (Ω)	Resistance Tolerance (%)	Watts Without Heatsink	Dimensions (mm) A	B	C	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
12M16	1 ~ 500	10	20	25.4	36.5	47.6	12M16-(Value)-ND	11.23	8.74	7.49	7.24	12M16-X
12M40	1 ~ 500	10	40	63.5	76.2	85.7	12M40-(Value)-ND	12.40	9.65	8.27	7.99	12M40-X
12M59	1 ~ 500	10	50	93.7	104.8	115.9	12M59-(Value)-ND	13.59	10.57	9.06	8.76	12M59-X

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value).

Audio Resistors – 1% MRA5 and MRA12 Series

Non-magnetic, non-inductive construction greatly enhances the frequency response

Specifications: • Meets or exceeds the specifications in MIL-R-26E for wire-wound resistors • Meets the applicable specifications of MIL-STD-202, method 208 • Core: Alumina ceramic • Element: Nickel-chromium alloy • Leads: Tinned copper

RESISTANCE VALUE CHART
MRA5 Series

.22	.5	1K
.33	1	10K
.39	10	
.47	100	

RESISTANCE VALUE CHART
MRA12 Series

.5	2.5	5.0	10.0	30
1.0	3.0	6.0	12.5	47
1.5	3.5	7.0	15	100
2.0	4.0	8.0	20	1K

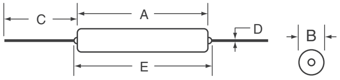

Series	Resistance Range (Ω)	Resistance Tolerance (%)	Watts	Dimensions (mm) A	B	C	D	E	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
MRA-5	.22 ~ 1	1	5	14.3	4.2	38.1	0.81	16.5	MRA05-(Value)-ND	2.48	1.89	1.58	1.44	MRA05-xxx-1%
	10 ~ 100								MRA05-(Value)-ND	2.97	2.27	1.89	1.73	MRA05-xxx-1%
	1K								MRA05-1K-ND	4.37	3.34	2.79	2.55	MRA05-1K-1%
	10K								MRA05-10K-ND	5.42	4.14	3.45	3.16	MRA05-10K-1%
MRA-12	.5 ~ 100	1	12	30.2	7.9	38.1	1.01	32.5	MRA12-(Value)-ND	5.09	3.89	3.24	2.96	MRA12-xxx-1%
	1K								MRA12-1K-ND	5.58	4.27	3.56	3.25	MRA12-1K-1%

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value).

Current Sensing Shunts – 1%, 5% MRS Series

Series	Res. Value (Ω)	Res. Toler-ance (%)	Amps	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	50	100	Huntington Part No.
MRS1298	.010	1	25	17.78 Max.	—	—	—	MRS129801-1-ND	2.97	2.27	1.89	1.73	MRS129801-1%
	.005	1	25	17.78 Max.	—	—	—	MRS129802-1-ND	2.97	2.27	1.89	1.73	MRS129802-1%
	.001	1	25	10.16	—	—	—	MRS129804-1-ND	2.97	2.27	1.89	1.73	MRS129804-1%
	.010	5	25	17.78 Max.	—	—	—	MRS129801-ND	2.48	1.89	1.58	1.44	MRS129801-5%
	.005	5	25	17.78 Max.	—	—	—	MRS129802-ND	2.48	1.89	1.58	1.44	MRS129802-5%
	.001	5	25	10.16	—	—	—	MRS129804-ND	2.48	1.89	1.58	1.44	MRS129804-5%
MRS1375	.002	1	30	31.75	19.05 Max.	12.70	2.03	MRS137505-1-ND	6.02	4.60	3.84	3.51	MRS137505-1%
	.001	1	40	31.75	19.05 Max.	12.70	2.03	MRS137513-1-ND	6.02	4.60	3.84	3.51	MRS137513-1%
	.002	5	30	31.75	19.05 Max.	12.70	2.03	MRS137505-ND	5.06	3.87	3.22	2.95	MRS137505-5%
	.001	5	40	31.75	19.05 Max.	12.70	2.03	MRS137513-ND	5.06	3.87	3.22	2.95	MRS137513-5%
MRS1510	.001	1	40	25.4	12.70 Max.	7.62	2.06	MRS151004-1-ND	6.02	4.60	3.84	3.51	MRS151004-1%
	.001	5	40	25.4	12.70 Max.	7.62	2.06	MRS151004-ND	6.02	4.60	3.84	3.51	MRS151004-5%

MRS1298

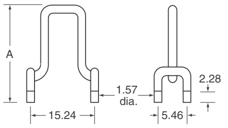

MRS1375 and MRS1510

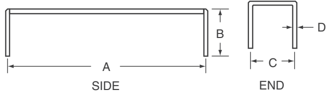

Edgewound Resistors – 300, 1000 Watt

HEI Edgewound Resistors are designed for applications demanding maximum power dissipation in minimum space. Edgewounds are constructed of special alloy resistance wire, crimped, and wound on edge. High quality ceramic cores are used with a coating of either vitreous enamel or silicone to provide heat sink for short term overloads and maximum dissipation.

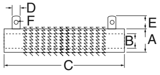

Specifications:
• **Dielectric Withstanding Voltage:** Measured from terminals to brackets, 1000VAC • **Overload:** 10 x rated power for 5 seconds • **Tolerance:** ±10% • Wattage is based on 25°C free air rating

Series	A	(Core) B	C	D	(Terminal) E	F
FVE-300	28.58	19.05	215.90	7.94	15.88	254.00 - 812.80
AVE-300‡	28.58	19.05	215.90	7.94	15.88	254.00 - 812.80
FSE-1000	63.50	44.45	381.00	12.70	15.88	6.35 - 508.00

‡ Adjustable central terminal

RESISTANCE VALUE CHART

FVE-300 Fixed			AVE-300 Adjustable				FSE-1000 Fixed		
.50	5.0	12	.10	.20	1.6	20	.25	3.5	15
1.2	8.0	16	.12	.80	8.0		.50	4.5	
2.0	10	20	.16	1.0	16		1.0	10	

Resistance Range (Ω)	Watt-age	Digi-Key Part No.§	Price Each 1	10	25	Huntington Part No.
.50 - 20	300	FVE300-(Value)-ND	17.31	15.55	13.17	FVE-300-(Value)
.10 - 20	300	AVE300-(Value)-ND	27.05	21.61	15.15	AVE-300-(Value)
.25 - 15	1000	FSE1000-(Value)-ND	54.08	48.68	—	FSE-1000-(Value)
FVE-300 and AVE-300 Mounting Kit.........		K1016-ND	10.23/1			K1016
FSE-1000 Mounting Kit.......................		K3003-ND	17.52/1			K3003

§ For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

HUNTINGTON ELECTRIC, INC. Aluminum Housed Chassis Mount Resistors – 5, 10, 25, 50 Watt, 1%

(Precision Power Wirewound)

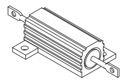

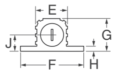

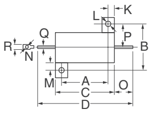

HEI's high-power aluminum housed resistors use centerless ground ceramic cores for uniform heat distribution. Molded in a special high temperature material and mounted in an extruded aluminum finned housing, these designs provide maximum power dissipation and reliability. They have tinned copperweld leads for solderability and meet or exceed MIL-R-18546, including "N" characteristic, and MIL-R-39009. **Specifications:** • Power Rating: Based on full power operation at 25°C, and maximum hotspot 275°C • Mounting on proper heat sink as follows: For 5 and 10 Watt – use 4" x 6" x 2" x .040" (101.60 x 152.40 x 50.80 x 1.02mm) aluminum chassis; For 25 and 50 Watt – use 5" x 7" x 2" x .040" (127.00 x 177.80 x 50.80 x 1.02mm) aluminum chassis

Electrical Specifications:

Series	TMC-5	TMC-10	TMC-25	TMC-50
MIL-R-39009/MIL-R-18546	RER-60/RE-60	RER-65/RE-65	RER-70/RE-70	RER-75/RE-75
HEI Power	7.5 Watts	12.5 Watts	25 Watts	50 Watts
MIL Power	5 Watts	10 Watts	20 Watts	30 Watts
Working Voltage	160	265	550	1250
Dielectric Strength	1000VAC	1000VAC	2500VAC	2500VAC

Series	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q AWG	R
TMC-5	11.40	12.57	16.03	30.15	8.86	16.79	8.51	1.91	3.81	2.24	2.49	2.36	1.40	8.33	7.01	16	2.97
TMC-10	14.40	16.00	19.84	36.50	11.30	20.70	10.54	2.16	5.08	2.62	2.49	2.97	2.31	9.50	8.71	12	4.37
TMC-25	18.39	19.96	27.76	50.80	13.84	27.81	14.61	2.41	6.86	4.62	3.30	3.56	2.31	12.70	10.72	12	4.37
TMC-50	39.83	21.56	50.77	72.21	16.00	29.34	16.00	2.41	7.87	5.23	3.30	3.56	2.31	12.70	11.51	12	4.37

RESISTANCE VALUE CHART

TMC-5			TMC-10			TMC-25			TMC-50				
.10	25	2.0K	.20	33	330	.10	20	500	.15	1.5	8.0	40	300
.50	30	10.0K	1.0	35	1.0K	1.0	25	1.0K	.20	2.0	10	50	500
1.0	100	15.0K	2.0	50	2.0K	2.0	40	2.0K	.25	2.5	12	75	1.0K
5.0	150		2.5	75	2.5K	3.0	100	3.0K	.30	3.3	16	100	1.5K
10	300		10	100	10.0K	12	200		.50	5.0	20	150	2.5K
12	390		25	300		15	300		1.0	6.0	30	250	5.0K

Resistance Range (Ω)	Wattage	Digi-Key Part No.§	Price Each 1	10	50	100	250	Huntington Part No.
.10-15.0K	5	TMC5-(Value)-ND	4.39	3.75	3.09	2.64	2.43	TMC-5-(Value)-1%
.20-10.0K	10	TMC10-(Value)-ND	3.73	3.18	2.60	2.24	2.06	TMC-10-(Value)-1%
.10-3.0K	25	TMC25-(Value)-ND	5.23	4.46	3.66	3.14	2.89	TMC-25-(Value)-1%
.15-5.0K	50	TMC50-(Value)-ND	5.47	4.66	3.83	3.29	3.02	TMC-50-(Value)-1%

§ For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

CTS Thick Film Current Sensing Resistors – 73xx Series

Features: • Thick film construction • Very low resistance • Surface mount package • Suitable for current limiting, current detection, motor control, power supply and hard disk drives • High precision and excellent accuracy for current detection • Good electrical characteristics • Suitable for reflow soldering

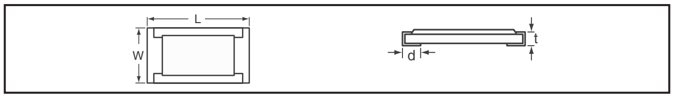

Series	Package Code Inch (mm)	Dimensions (mm) L	W	d	t
73L1	0402 (1005)	1.00 ± 0.05	0.50 ± 0.03	0.25 ± 0.10	0.35 ± 0.05
73L2	0603 (1608)	1.60 ± 0.15	0.80 +0.20/-0.10	0.25 ± 0.20	0.50 +0.15/-0.05
73L3	0805 (2012)	2.00 +0.20/-0.10	1.25 +0.20/-0.10	0.40 ± 0.20	0.50 +0.15/-0.05
73L4	1206 (3216)	3.20 +0.10/-0.15	1.60 +0.10/-0.15	0.50 ± 0.20	0.55 +0.15/-0.05
73L5	1210 (3225)	3.20 +0.10/-0.15	2.60 +0.10/-0.15	0.50 ± 0.20	0.55 +0.15/-0.05
73L6	2010 (5025)	5.00 ± 0.15	2.50 ± 0.15	0.60 ± 0.25	0.56 ± 0.15
73L7	2512 (6432)	6.30 ± 0.15	3.20 ± 0.15	0.60 ± 0.25	0.56 ± 0.15
73E4	1206 (3216)	3.20 ± 0.10	1.60 ± 0.10	0.50 ± 0.20	0.55 ± 0.10
73E6	2010 (5024)	5.00 ± 0.15	2.50 ± 0.15	0.60 ± 0.25	0.55 ± 0.15

73L1 and 73L2 Series Resistance Value Charts

Value (Code)	Value (Code)
.20 (R20)	.56 (R56)
.47 (R47)	.91 (R91)

73L3, 73L4, 73L5, 73L6, and 73L7 Series Resistance Value Charts

Value (Code)	Value (Code)
.10 (R10)	.56 (R56)
.20 (R20)	.91 (R91)
.47 (R47)	

73E4 and 73E6 Series Resistance Value Charts

Value (Code)	Value (Code)
.050 (R050)	.062 (R062)
.056 (R056)	.091 (R091)

Series	Package Size Inch (mm)	Wattage	Value Range (Ω)	TCR ppm/°C	Resistance Tolerance	Digi-Key Part No.§	Cut Tape Pricing 10	50	200	Digi-Key Part No.§	Tape & Reel Pricing 4,000	5,000	10,000	12,000
73L1	0402 (1005)	1/10	0.20 ~ 0.91	±300	±5%	73L1(Code)JCT-ND	1.24	3.33	7.65	73L1(Code)JTR-ND	—	—	9.00/M	—
73L2	0603 (1608)	1/10	0.20 ~ 0.91	±300	±5%	73L2(Code)JCT-ND	1.24	3.33	7.65	73L2(Code)JTR-ND	—	10.00/M	9.00/M	—
73L3	0805 (2012)	1/8	0.10 ~ 0.91	±200	±5%	73L3(Code)JCT-ND	1.10	2.96	6.80	73L3(Code)JTR-ND	—	8.00/M	7.00/M	—
73L4	1206 (3216)	1/4	0.10 ~ 0.91	±200	±5%	73L4(Code)JCT-ND	1.24	3.33	7.65	73L4(Code)JTR-ND	—	10.00/M	9.00/M	—
73L5	1210 (3225)	1/2	0.10 ~ 0.91	±200	±5%	73L5(Code)JCT-ND	1.93	5.18	11.90	73L5(Code)JTR-ND	—	18.00/M	17.00/M	—
73L6	2010 (5025)	3/4	0.10 ~ 0.91	±200	±5%	73L6(Code)JCT-ND	3.16	8.51	19.55	73L6(Code)JTR-ND	30.00/M	—	—	29.00/M
73L7	2512 (6432)	1.0	0.10 ~ 0.91	±200	±5%	73L7(Code)JCT-ND	5.36	14.43	33.15	73L7(Code)JTR-ND	56.00/M	—	—	53.00/M
73E4	1206 (3216)	1/2	0.050 ~ 0.091	±100	±5%	73E4(Code)JCT-ND	4.40	11.84	27.20	73E4(Code)JTR-ND	—	45.00/M	—	—
73E6	2010 (5024)	1.0	0.050 ~ 0.091	±100	±5%	73E6(Code)JCT-ND	12.10	32.56	74.80	73E6(Code)JTR-ND	134.00/M	—	—	126.00/M

§ For complete part number, substitute the corresponding code from the Resistance Values chart for (Code).

Metal Plate Current Sensing Resistors – 73Mx Series

Features: • Very low resistance • Surface mount package • Suitable for current limiting, current detection, motor control, power supply and hard disk drives • High precision and excellent accuracy for current detection • Good electrical characteristics • Suitable for reflow solder process

Series	Dimensions (mm) L	W	t	d
73M1	6.2±0.3	3.1±0.2	1.0±0.2	1.2±0.3
73M2	6.4±0.3	3.5±0.2	1.2 max.	1.0±0.2

73M1 Series Resistance Value Chart

.003 (R003)	.008 (R008)
.004 (R004)	.009 (R009)
.005 (R005)	.010 (R010)
.006 (R006)	.047 (R047)
.007 (R007)	.100 (R100)

73M2 Series Resistance Value Chart

.005 (R005)	.010 (R010)
.006 (R006)	.020 (R020)
.007 (R007)	.030 (R030)
.008 (R008)	.040 (R040)
.009 (R009)	

73M1 Series

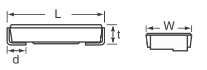

73M2 Series

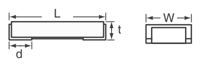

Series	Package Size (Inch)	Wattage	Value Range (Ω)	Resistance Tolerance	Digi-Key Part No.§	Cut Tape Pricing 10	50	200	Digi-Key Part No.§	Tape & Reel Pricing 1,000	5,000
73M1	2412	1.0	0.003 ~ 0.009	±1%	73M1(Code)FCT-ND	17.46	46.99	107.95	73M1(Code)FTR-ND	221.00	209.00/M
			0.010 ~ 0.100		73M1(Code)FCT-ND	17.33	46.62	107.10	73M1(Code)FTR-ND	220.00	207.00/M
73M2	2514	2.0	0.005 ~ 0.009	±1%	73M2(Code)FCT-ND	36.99	99.53	228.65	73M2(Code)FTR-ND	477.00	451.00/M
			0.010 ~ 0.040		73M2(Code)FCT-ND	36.85	99.16	227.80	73M2(Code)FTR-ND	475.00	449.00/M

§ For complete part number, substitute the corresponding code from the Resistance Values chart for (Code).

BOURNS PWR4412-2S Series — Bare Metal Element Resistor

The PWR4412-2S Series is a through hole resistor designed for current shunt and current sensing applications such as power supplies of different kinds, motor drives and many other applications. The resistor is quite rugged, consisting of a special metal alloy welded to tinned copper leads. Features: • High current capability • Low inductance • Radial leads • Low ohmic Electrical Specifications: • Temperature Coefficient (TCR): -65°C<T<170°C ±20 PPM/°C • Operating Temperature: -40°C ~ 125°C • Inductance: 10nH

Version	Resistance Ω	Tolerance %	Wattage @ 85°C	Dimensions (mm) L	H	Digi-Key Part No.	Price Each 1	10	50	Bourns Part No.
B	.01	1	1.0	11.43+1.02/-0.51	5.08±2.54	PWR4412-2SBR0100F-ND	.96	.88	.76	PWR4412-2SBR0100F
	.01	5				PWR4412-2SBR0100J-ND	.96	.88	.76	PWR4412-2SBR0100J
	.03	1				PWR4412-2SBR0300F-ND	.96	.88	.76	PWR4412-2SBR0300F
	.03	5				PWR4412-2SBR0300J-ND	.96	.88	.76	PWR4412-2SBR0300J
C	.01	1	3.0	15.24+1.02/-0.51	25.4 Max.	PWR4412-2SCR0100F-ND	.96	.88	.76	PWR4412-2SCR0100F
	.01	5				PWR4412-2SCR0100J-ND	.96	.88	.76	PWR4412-2SCR0100J
	.03	1				PWR4412-2SCR0300F-ND	.96	.88	.76	PWR4412-2SCR0300F
	.03	5				PWR4412-2SCR0300J-ND	.96	.88	.76	PWR4412-2SCR0300J
D	.01	1	5.0	20.32+1.02/-0.51	25.4 Max	PWR4412-2SDR0100F-ND	.96	.88	.76	PWR4412-2SDR0100F
	.01	5				PWR4412-2SDR0100J-ND	.96	.88	.76	PWR4412-2SDR0100J
	.03	1				PWR4412-2SDR0300F-ND	.96	.88	.76	PWR4412-2SDR0300F
	.03	5				PWR4412-2SDR0300J-ND	.96	.88	.76	PWR4412-2SDR0300J

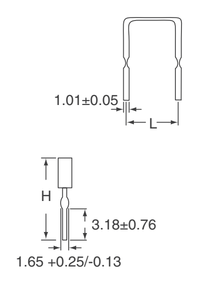

Dimensions in mm

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

High Voltage Flip Chip Film Resistors

High Voltage Flip Chip Series incorporates high accuracy screen printing technology to achieve high voltage capability in a stable flip chip SMD chip resistor package. The HVF Series offers unmatched performance in comparison to standard chip resistors. Its unique design provides lower voltage and temperature coefficients, less noise, tighter tolerances, better stability, higher resistance values and high voltage ratings. HVF is available in convenient 1206 and 2512 footprints.

FEATURES: • **Working Temperature Range:** -55°C ~ 200°C **SPECIFICATIONS:** • **Temperature Coefficient:** ±100ppm standard **PERFORMANCE DATA:** • **Overload:** 1,5 x Pnom, 5 seconds (do not exceed maximum voltage) • **Load Life:** 1000 hours at rated power (IEC 115-1)

HVF1206T( )FE — RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
25K **(2502)**	100K **(1003)**	1.0M **(1004)**	2.5M **(2504)**	1.0G **(1007)**
50K **(5002)**	250K **(2503)**	1.5M **(1504)**	5M **(5004)**	10G **(1008)**
75K **(7502)**	500K **(5003)**	2M **(2004)**	7.5M **(7504)**	

HVF2512T( )FE — RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
25K **(2502)**	100K **(1003)**	1.0M **(1004)**	2.5M **(2504)**	1.0G **(1007)**
50K **(5002)**	250K **(2503)**	1.5M **(1504)**	5M **(5004)**	5G **(5007)**
75K **(7502)**	500K **(5003)**	2M **(2004)**	7.5M **(7504)**	

Series	Package Size	Power Rating (mW)	Voltage Rating	Dimensions (inch ±0.008) L	W	a	T (max.)
HVF1206	1206	300	1,500	0.128	0.063	0.018	0.028
HVF2512	2512	1,000	3,000	0.252	0.126	0.026	0.032

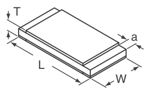

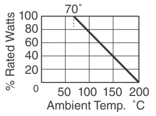

Series	Package Size	Resistance Range (Ω)	Tolerance	Digi-Key Part No.†	Bulk Price Each 1	50	100	Ohmite Part No.†
HVF1206	1206	25K ~ 10G	1%	HVF1206T**(Code)**FEBK-ND	3.23	2.91	2.58	HVF1206T**(Code)**FE
HVF2512	2512	25K ~ 10G		HVF2512T**(Code)**FEBK-ND	3.80	3.42	3.04	HVF2512T**(Code)**FE

† For complete part number, substitute the code from Resistance Value Charts for **(Code)**.

Heat Sink Mountable Thick and Thin Film Power Resistors

TAH20, TBH25, TCH35, TDH35, TEH70 ,TFH85, TK20 and TN15 Series — TO Style SMD and Through Hole

Dimensions in mm

TAH20

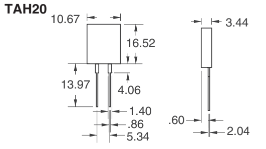

TBH25

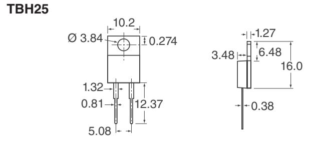

TCH35

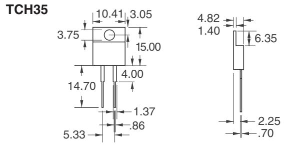

TDH35

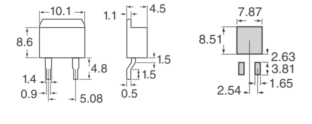

2-Terminal – TEH70

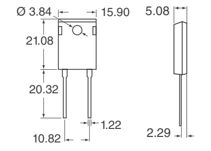

3-Terminal – TEH70

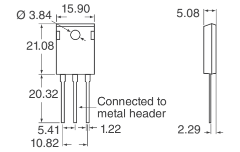

2-Terminal – TFH85M

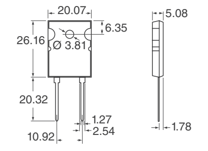

3-Terminal – TFH85P

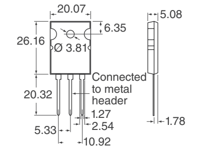

TK20, TN15

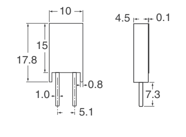

TAH20 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.05 (R050)	3.3 (3R30)◊	47 (47R0)◊	750 (750R)◊
.10 (R100)	3.9 (3R90)	51 (51R0)	1.0K (1K00)
.22 (R220)	5.6 (5R60)	75 (75R0)	2.7K (2K70)◊
.33 (R330)	7.5 (7R50)	100 (100R)	5.1K (5K10)
.51 (R510)	10 (10R0)	150 (150R)	10K (10K0)
1.0 (1R00)	15 (15R0)	220 (220R)	
1.5 (1R50)	22 (22R0)	470 (470R)	
2.2 (2R20)	33 (33R0)	510 (510R)	

TBH25 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
5.1 (5R10)	39 (39R0)	1.0K (1K00)
5.6 (5R60)	47 (47R0)	1.5K (1K50)
7.5 (7R50)	51 (51R0)	
10 (10R0)	75 (75R0)	
15 (15R0)	100 (100R)	
24 (24R0)	150 (150R)	
33 (33R0)	470 (470R)	

TCH35 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R100)	3.9 (3R90)	75 (75R0)	5.1K (5K10)
.22 (R220)	5.6 (5R60)	100 (100R)	10K (10K0)
.33 (R330)	10 (10R0)	150 (150R)	
.51 (R510)	15 (15R0)	220 (220R)	
1.0 (1R00)	22 (22R0)	470 (470R)	
1.5 (1R50)	33 (33R0)	510 (510R)	
2.2 (2R20)	47 (47R0)	1.0K (1K00)	
3.3 (3R30)	51 (51R0)	2.7K (2K70)	

TDH35 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R100)	2.0 (2R00)	47 (47R0)	750 (750R)
.15 (R150)	3.0 (3R00)	68 (68R0)	1.0K (1K00)
.20 (R200)	5.0 (5R00)	75 (75R0)	1.5K (1K50)◊
.30 (R300)	7.5 (7R50)	100 (100R)	2.5K (2K50)
.36 (R360)	10 (10R0)	150 (150R)	3.0K (3K00)◊
.47 (R470)◊	15 (15R0)	200 (200R)	5.0K (5K00)
.50 (R500)	20 (20R0)	250 (250R)	
.75 (R750)	25 (25R0)	300 (300R)	
1.0 (1R00)	33 (33R0)	500 (500R)	

TEH70 Series (2- and 3-Terminal)
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
2.0 (2R00)	47 (47R0)	1.0K (1K00)
3.0 (3R00)	68 (68R0)	1.5K (1K50)
4.0 (4R00)	75 (75R0)	2.0K (2K00)
7.5 (7R50)	100 (100R)	3.0K (3K00)
10 (10R0)	150 (150R)	5.0K (5K00)
15 (15R0)	270 (270R)	7.5K (7K50)
20 (20R0)	470 (470R)	10K (10K0)
24 (24R0)	680 (680R)	
33 (33R0)	750 (750R)	

TFH85M Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)
3.0 (3R00)	1.0K (1K00)
6.8 (6R80)	2.7K (2K70)
10 (10R0)	4.7K (4K70)
24 (24R0)	10K (10K0)
33 (33R0)	
51 (51R0)	
100 (100R)	
150 (150R)	
470 (470R)	

TFH85P Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
2.0 (2R00)	75 (75R0)	6.8K (6K80)
5.1 (5R10)	100 (100R)	7.5K (7K50)
7.5 (7R50)	220 (220R)	10K (10K0)
10 (10R0)	330 (330R)	
15 (15R0)	750 (750R)	
39 (39R0)	1.0K (1K00)	
51 (51R0)	1.5K (1K50)	
68 (68R0)	3.3K (3K30)	

TK20 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.030 (R030)	.750 (R750)	40 (40R0)	1.0K (1K00)
.040 (R040)	1.0 (1R00)	50 (50R0)	3.0K (3K00)
.050 (R050)	3.0 (3R00)	75 (75R0)	4.0K (4K00)
.075 (R075)	4.0 (4R00)	100 (100R)	5.0K (5K00)
.100 (R100)	5.0 (5R00)	300 (300R)	7.5K (7K50)
.300 (R300)	7.5 (7R50)	400 (400R)	10K (10K0)
.400 (R400)	10 (10R0)	500 (500R)	
.500(R500)	30 (30RO)	750 (750R)	

TN15 Series — 2%
RESISTANCE VALUE CHART

Value (Code)
7.5K (7K50)
10 (10R0)
1.0K (1K00)
10K (10K0)

Electrical Specifications:

Series	TAH20	TBH25	TCH35/TDH35	TEH70 (2 and 3 Terminal)
Resistance Tolerance	±5%	±5%	±5%	±5%
Maximum Operating Voltage	350V	350V	350V	500V
Dielectric Strength	1800VAC	1000VDC	1800VAC	—
Insulation Resistance	10GΩ Min.	10GΩ Min.	10GΩ Min.	400MΩ
Power Rating	20W @ 25°C	25W @ 25°C	35W @ 25°C	70W @ 25°C
Mounting	Requires use of a snap-on heat sink. A thermal compound should be properly applied.	Single screw mounting tab (with thermal compound recommended).	Single screw mounting tab (with thermal compound recommended).	2-Terminal is single screw mounted. 3-Terminal heat sink can be grounded through middle terminal

Electrical Specifications:

Series	TFH85 (2 and 3 Terminal)	TK20	TN15
Resistance Tolerance	±5%	±5%	1%, 2%
Maximum Operating Voltage	500V	150V	200V
Dielectric Strength	—	—	—
Insulation Resistance	400MΩ	—	—
Power Rating	85W @ 25°C	20W @ 25°C	15W @ 25°C
Mounting	P style middle terminal is electrically connected to header and insulated from outer pins. Heat sink can be grounded through middle terminal. M style has no middle terminal	Heat sink dependent. Must be attached to a proper heat sink for full power rating. Maximum case temperature can not exceed 150°C. Optional recommended mounting bracket kit, 6200-ND	

Series	Resistance Range (Ω)	Digi-Key Part No.*	Price Each 1	100	250
TAH20	.33 ~ .51	TAH20P(Code)J-ND	8.15	6.52	5.54
	1.5 ~ 10K	TAH20P(Code)J-ND	6.53	5.21	4.43
TDH35	.15	TDH35PR150J-ND	9.90	6.84	6.27
	.30	TDH35PR300J-ND	9.20	6.38	5.83
	.47	TDH35PR470J-ND	8.08	5.72	5.12
	1.5K ~ 3.0K	TDH35P(Code)J-ND	7.34	5.04	4.65
RoHS Compliant					
TAH20	.05 ~ .51	TAH20P(Code)JE-ND	9.25	7.40	6.29
	1.00 ~ 10K	TAH20P(Code)JE-ND	6.53	5.21	4.43
TBH25	5.1 ~ 10	TBH25P(Code)JE-ND	5.78	4.62	3.94
	15 ~ 1.5K	TBH25P(Code)JE-ND	5.68	4.54	3.86
TCH35	.10 ~ .51	TCH35P(Code)JE-ND	8.78	7.01	5.96
	1.00 ~ 10K	TCH35P(Code)JE-ND	6.65	5.31	4.51
TDH35	.10 ~ .15	TDH35P(Code)JE-ND	9.90	6.84	6.27
	.20 ~ .36	TDH35P(Code)JE-ND	9.20	6.38	5.83
	.50	TDH35PR500JE-ND	8.08	5.72	5.12
	.75 ~ 7.5	TDH35P(Code)JE-ND	7.74	5.51	4.91
	10 ~ 5.0K	TDH35P(Code)JE-ND	7.34	5.04	4.65
TEH70 (2-Terminal)	2.0 ~ 10K	TEH70M(Code)JE-ND	11.55	9.24	7.86
TEH70 (3-Terminal)	2.0 ~ 10K	TEH70P(Code)JE-ND	11.00	8.80	7.48
TFH85M (2-Terminal)	3.0 ~ 10K	TFH85M(Code)JE-ND	13.98	11.12	9.48
TFH85P (3-Terminal)	2.0 ~ 10K	TFH85P(Code)JE-ND	13.30	11.08	9.47
TK20	.030 ~ 10K	TK20P(Code)JE-ND	4.64	3.20	2.56
TN15 (2%)	10 ~ 10K	TN15P(Code)GE-ND	5.92	4.08	3.27
Mounting Bracket for the TK/TN Series		6200-ND	.92	.41	.35

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

OHMITE TA Series Power Chip® Resistors — Thick Film on Alumina Substrate

5, 10 and 25 Watt

Ohmite Power Chip Resistors are thick film on alumina oxide substrates with copper plated silver conductors, Ruthenium oxide resistance material and a glass passivation layer. These resistors offer very low inductance (50nh measured at 1MHz) and outstanding power density (10W/in2). Repetitive transient capability is 5 times rated power as long as one second average dissipation remains equal to or less than the free air rating.

Features: • Wide resistance range • Low inductance • High power density • Easy to install • PC-mountable

Material: • Terminals: Solder Plated Phosphor Bronze • Coating: Glass

Electrical: • Resistance Tolerance: ±5% • Power Rating: Based on 25°C free air with linear derating to 0W at 350°C • Maximum Operating Voltage: 350VAC, 500VDC through glass 1000VAC, 1500VDC through substrate • Overload: Five times rated power, as long as the one second average dissipation does not exceed the wattage rating • DR: ±2%, 2000 hours • Derating: Linearly from 100% @ 25°C ~ 0% @ 350°C

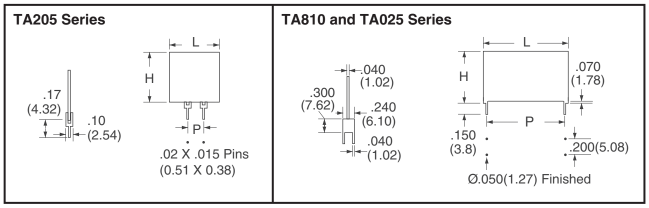
TA205 Series

TA810 and TA025 Series

Series	Maximum Dimensions - Inch (mm)		
	P	L (Length)	H (Height)
TA205	.200 (5.08)	.50 (12.70)	1.00 (25.40)
TA810	.800 (20.32)	1.00 (25.40)	1.00 (25.40)
TA025	1.90 (48.3)	2.220 (56.39)	1.170 (29.70)

RESISTANCE VALUE CHART

TA205 Series			TA810 Series		TA025 Series
Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1.0 (1R00)	15 (15R0)	200 (200R)	1.0 (1R00)	100 (100R)	2.0 (2R00)
1.2 (1R20)◊	18 (18R0)	240 (240R)	1.5 (1R50)	150 (150R)	3.0 (3R00)
1.5 (1R50)	20 (20R0)	300 (300R)	2.0 (2R00)	200 (200R)	5.1 (5R10)
1.8 (1R80)◊	24 (24R0)	330 (330R)	3.0 (3R00)	300 (300R)◊	8.2 (8R20)
2.0 (2R00)	30 (30R0)◊	390 (390R)◊	3.9 (3R90)	390 (390R)◊	20 (20R0)
2.4 (2R40)	33 (33R0)	470 (470R)	5.1 (5R10)	510 (510R)	30 (30R0)
3.0 (3R00)	39 (39R0)	510 (510R)◊	6.8 (6R80)◊	680 (680R)	39 (39R0)
3.3 (3R30)	47 (47R0)	560 (560R)	8.2 (8R20)	820 (820R)◊	51 (51R0)
3.9 (3R90)	51 (51R0)	680 (680R)◊	10 (10R0)	1K (1K00)	82 (82R0)
4.7 (4R70)◊	56 (56R0)◊	820 (820R)◊	15 (15R0)	1.5K (1K50)◊	200 (200R)
5.1 (5R10)	68 (68R0)◊	1K (1K00)◊	20 (20R0)	2.0K (2K00)	300 (300R)◊
5.6 (5R60)◊	82 (82R0)	1.2K (1K20)	30 (30R0)		390 (390R)◊
6.8 (6R80)	100 (100R)	1.5K (1K50)◊	39 (39R0)◊		510 (510R)
8.2 (8R20)	120 (120R)◊	1.8K (1K80)◊	51 (51R0)◊		820 (820R)
10 (10R0)	150 (150R)◊	2K (2K00)	68 (68R0)◊		2.0K (2K00)
12 (12R0)	180 (180R)◊		82 (82R0)◊		

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	50	100	500
1.5 ~ 2K	5	TA205PA(Code)J-ND	1.94	1.60	1.47	—
1.5 ~ 2.0K	10	TA810PW(Code)J-ND	4.23	3.38	2.42	2.24
200 ~ 820	25	TA025PW(Code)J-ND	8.64	7.32	5.85	—
RoHS Compliant						
1.0 ~ 470	5	TA205PA(Code)JE-ND	1.83	1.56	1.28	1.10
1.0 ~ 8.2	10	TA810PW(Code)JE-ND	4.23	3.38	2.42	2.24
10 ~ 2.0K	10	TA810PW(Code)JE-ND	4.10	3.28	2.37	2.19
2.0 ~ 2K	25	TA025PW(Code)JE-ND	7.08	6.29	5.31	3.90

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).
◊ Not available in RoHS Compliant

Maxi-Mox Series — Precision Thick Film Resistors

Applications: • HV power supplies • Power distribution • Medical instrumentation • Avionics **Material:** • Core: Alumina • Resistor: Thick Film **Electrical:** • Operating Temperature: -55°C ~ 220°C

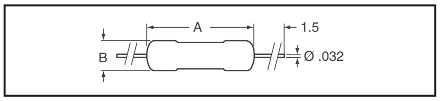

Series	Maximum Dimensions Inch (mm)	
	A	B
MOX-1-12	1.12 (28.45)	0.31 (7.87)
MOX-2-12	2.12 (53.85)	0.31 (7.87)

Resistance Value (Ω)	Tolerance	Wattage	Digi-Key Part No.*	Price Each 1	10	50	100
10M 100M 1000M	±5%	2.5	MOX1J-(Value)-ND	6.64	3.37	3.02	2.42
	±5%	5	MOX2J-(Value)-ND	9.08	4.61	4.15	3.32
RoHS Compliant							
10M 100M 1000M	±1%	2.5	MOX1FE-(Value)-ND	9.08	4.61	4.14	3.31
	±5%	2.5	MOX1JE-1000M-ND	8.18	4.16	3.72	2.99
	±1%	5	MOX2FE-(Value)-ND	12.41	6.32	5.69	4.55
	±5%	5	MOX2JE-(Value)-ND	11.81	6.00	5.41	4.33

* For complete part number, substitute the corresponding Value from the Resistance Value column.

TAP600 Heat Sinkable Planar Resistors — 600 Watt

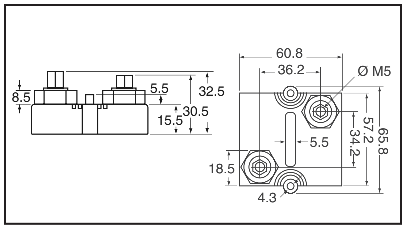

TAP600 delivers 600 watts of reliable power to a variety of power conditioning, power transmission, and power control applications.

Features: • Dielectric Strength: Up to 12KV • Special Design for Low Inductive and Capacitance Values • Easy termination to contacts with M5 screws • Calibrated Mounting simplifies assembly

Electrical Specifications: • Resistance Tolerance: ±10% Standard • Maximum Operating Voltage: 5000VDC • Power Rating: 600W at 70°C heat sink temperature • Temperature Coefficient: ±150ppm/°C • Operating Temperature Range: -55°C ~ 150°C • Electric Strength Voltage: Up to 12000Vrms, 50HZ, 1 minute @ 500V • Insulation Resistance: 10GΩ minimum at 500V • Air Distance: 14mm minimum • Inductance: ≤ 80nH

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	5.0 (5R0)	50 (50R)	10000 (10K)
2.0 (2R0)	10 (10R)	75 (75R)	
3.0 (3R0)	22 (22R)	100 (100)	
4.0 (4R0)	30 (30R)	1000 (1K0)	

Resistance Range (Ω)	Digi-Key Part No.*	Price Each 1	10	25	50
50 ~ 1000	TAP600K(Code)-ND	119.32	92.85	85.11	72.23
RoHS Compliant					
1.0 ~ 10,000	TAP600K(Code)E-ND	119.31	92.85	85.11	72.23

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

NEW! TAP800 Heat Sinkable Planar Resistors — 800 Watt

RoHS COMPLIANT

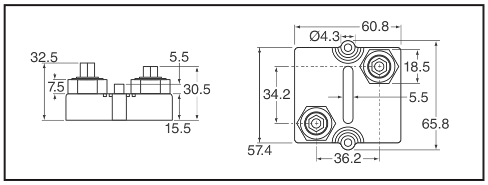

Ohmite's TAP800 Series dissipates 800 watts of power when used with a liquid or air cooled heat sink system.

Applications:
- Variable speed drivers • Power supplies • Robotics • Motor control • Control devices • Power designs

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	50 (50R)	680 (680)	10000 (10K)
5.0 (5R0)	100 (100)	1000 (1K0)	
10 (10R)	220 (220)	2700 (2K7)	
15 (15R)	390 (390)	5000 (5K0)	

Resistance Range (Ω)	Digi-Key Part No.*	Price Each 1	10	25	50
1.0 ~ 5,000	TAP800K(Code)E-ND	219.00	210.24	202.07	179.41
10,000	TAP800K(Code)E-ND	226.75	217.50	210.23	188.00

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

TAP1000 Heat Sinkable Planar Resistors — 1000 Watt

RoHS COMPLIANT

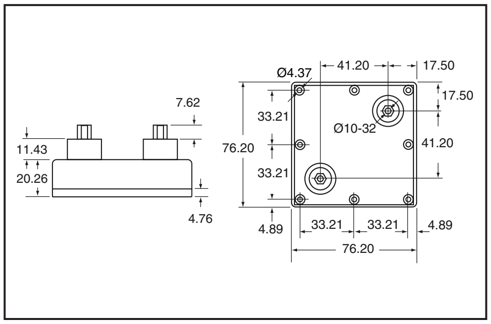

TAP1000 Series resistors deliver 1000 watts of continuous power with thick film on alumina substrate technology. Up to 30% smaller, the TAP1000 is capable of 2 to 4 times the power dissipation of traditional heat sinkable resistor technologies. Designed for use with liquid cooled heat sinks, TAP1000 resistors are capable of dissipating 1000 watts of continuous power when properly mounted (based on 70°C base temperature). Offering the highest power available in a heat sinkable package, the TAP1000 is well suited for power conditioning, power distribution, power conversion and power control applications. Constructed of durable, lightweight materials, the TAP1000 package is easy to design and mount.

Features: • Dissipates 1000 Watts @ 70°C Mounting Plate Temperature • High Energy Rating • Low Inductance • Resistor Element Electrically Isolated • High Dielectric Strength • Small Footprint **Applications:** • Power semiconductor balancing • Motor control • Inrush current limiting **Material Specifications:** Resistor element - thick film on alumina substrate Electrical Specifications: • Resistance Tolerance: ±10% Standard • Maximum Operating Voltage: 2000VDC • Power Rating: 1000W @70°C • Temperature Coefficient: ±250ppm/°C • Dielectric Strength: 6KV • Operating Temperature Range: -55°C ~ 150°C **Case Specifications**: • Terminal Screws (#10 - 32), Maximum Contacts Torque: 10 in-lb. • Mounting Screws (#8 - 32), Maximum Mounting Torque: 15 in-lb.

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
2.5 (2R50)	8.0 (8R00)	25 (25R0)
3.0 (3R00)	10 (10R0)	30 (30R0)
5.0 (5R00)	15 (15R0)	50 (50R0)

Resistance Range (Ω)	Digi-Key Part No.*	Price Each 1	10	25	50
2.5 ~ 50	TA1K0PH(Code)KE-ND	149.56	127.13	112.17	97.22

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

TL88 Series — Heat Sinkable Thick Film Power Resistors

The TL88 Series add heat sinkable options to the thick film resistor family. The resistor element is packaged with plastic insulators and quick-connect terminals in a symmetrical aluminum profile for easy heat sink mounting. Self-insulating package design increases voltage withstanding characteristics when compared to traditional aluminum housings. The in-line mounting profile makes the TL88 Series easily adaptable to most heat sink systems. Thermal compound is always recommended when heat sinking.

Features: • Very low inductance • In-Line Mounting Profile • 1/4" Quick connect terminals • Low profile design **Applications:** • Semiconductor Balancing • Frequency Converters • In-Rush Current Limiter • Snubber • Bleeder Resistor • Power Switching • Voltage Dividers **Material Specifications:** • Resistive Element: Thick film on alumina • Housing: Aluminum • Insulators: Glass reinforced high temperature Valox® • Terminals: Tinned brass **Electrical Specifications:** • Tolerance: ± 10% Standard • Temperature Coefficient: ±250PPM • Working Voltage: 1200VAC • Temperature Limits: -40°C ~ 125°C • Air Distance, Terminal to Ground: 7mm • Maximum Voltage Between Terminal: 2500V • Inductance: 50-100nH

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	10 (10R0)	33 (33R0)	100 (100R)
3 (3R00)	15 (15R0)	47 (47R0)	470 (470R)
5 (5R00)	25 (25R0)	50 (50R0)	

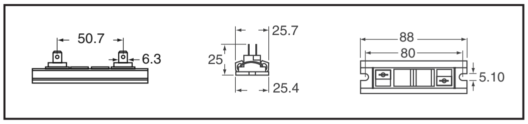

Resistance Range (Ω)	Wattage †	Digi-Key Part No.*	Price Each 1	10	50	100
1 ~ 47	114	TL88K(Code)-ND	83.16	69.30	27.72	20.79
RoHS Compliant						
1 ~ 470	114	TL88K(Code)E-ND	60.96	50.80	20.32	15.24

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).
† Standard wattage for properly heat sinked resistors

RW Series — SMD Wirewound Power Resistors – .6, 1, 1.5, 2, 3 and 3.5 Watt

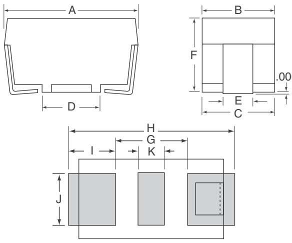

RESISTANCE VALUE CHART

RW0S6BB( )FE		RW1S0BA( )F	RW1S0BA( )J		RW1S5CA( )J	RW2R0DA( )J	RW2S0CB( )J	RW2S0DA( )J	RW3R0DB( )J		RW3R5EA( )J
1%		1%	5%		5%	5%	5%	5%	5%		5%
Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.010 (R010)	1.0 (1R00)	.010 (R010)	.005 (R005)	.100 (R100)	.005 (R005)	.005 (R005)◊	.005 (R005)	1.0 (1R00)	.005 (R005)	5.0 (5R00)	.010 (R010)
.015 (R015)	2.0 (2R00)	.015 (R015)	.010 (R010)	.150 (R150)	.010 (R010)	.010 (R010)	.010 (R010)	5.0 (5R00)	.010 (R010)	10.0 (10R0)	.020 (R020)
.020 (R020)	5.0 (5R00)	.020 (R020)	.015 (R015)	.200 (R200)	.015 (R015)	.015 (R015)	.020 (R020)	10.0 (10R0)	.015 (R015)	15.0 (15R0)	.025 (R025)◊
.030 (R030)	7.50 (7R50)	.030 (R030)	.020 (R020)	.240 (R240)	.030 (R030)◊	.020 (R020)	.030 (R030)	15.0 (15R0)	.025 (R025)	24.0 (24R0)	.030 (R030)
.050 (R050)	10.0 (10R0)	.033 (R033)	.024 (R024)	.300 (R300)	.040 (R040)	.025 (R025)	.050 (R050)	24.0 (24R0)	.036 (R036)◊	47.0 (47R0)	.036 (R036)◊
.075 (R750)	15.0 (15R0)	.039 (R039)	.027 (R027)	.360 (R360)	.080 (R080)	.030 (R030)	.150 (R150)	47.0 (47R0)	.050 (R050)	68.0 (68R0)	.050 (R050)
.100 (R100)	24.0 (24R0)	.047 (R047)	.030 (R030)	.470 (R470)	.150 (R150)	.050 (R050)	.200 (R200)	68.0 (68R0)	.075 (R075)	100.0 (100R)	.100 (R100)
.240 (R240)	36.0 (36R0)	.050 (R050)	.036 (R036)	.680 (R680)	.200 (R200)◊	.100 (R100)	.300 (R300)	100.0 (100R)	.100 (R100)	150.0 (150R)	.200 (R200)
.470 (R470)	47.0 (47R0)	.100 (R100)	.050 (R050)	.750 (R750)	.500 (R500)	.470 (R470)	.500 (R500)	150.0 (150R)	.500 (R500)		.500 (R500)
.750 (R750)	100.0 (100R)		.075 (R075)	1.00 (1R00)		1.00 (1R00)	1.00 (1R00)		1.00 (1R00)		1.00 (1R00)

Electrical Specifications

	RW0S6BB	RW1S0BA	RW1S5CA	RW2S0CB	RW2R0DA	RW2S0DA	RW3R0DB	RW3R5EA
Power at 25°C Ambient	0.6 Watt	1 Watt	1.5 Watt	2 Watt	2 Watt	2 Watt	3 Watt	3.5 Watt
Max. Voltage	50	50	75	100	100	100	200	350
Temperature Coefficient	0.1 ~ 1Ω — ±90 ppm/° C 1 ~ 10Ω — ±50 ppm/°C 10 Ω and over — ±20 ppm/°C							
Dielectric Withstanding Voltage	1000							

Maximum Dimensions - mm

Series	A	B	C	D	E	F	G	H	I	J	K
RW0S6BB	5.14	2.54	2.41 Ref.	2.00	1.64	3.42	1.98	8.33	3.20	3.18	0.66
RW1S0BA	6.76	3.58	3.38 Ref.	3.05	1.63	3.58	3.81	8.79	2.49	3.20	1.27
RW1S5CA	10.52	4.17	3.96 Ref.	5.84	2.24	4.17	6.50	13.31	3.40	3.20	1.52
RW2S0CB	10.85	5.87	5.64 Ref.	6.86	2.46	5.77	7.01	13.64	3.33	3.20	2.36
RW2R0DA	12.06	6.22	5.99 Ref.	6.86	3.94	5.87	8.05	14.86	3.40	3.94	2.36
RW2S0DA	12.06	6.22	5.99 Ref.	6.86	3.94	5.87	8.05	14.86	3.40	3.94	2.36
RW3R0DB	16.05	7.06	6.81 Ref.	10.85	3.94	5.87	12.04	18.85	3.40	3.94	2.36
RW3R5EA	21.11	7.06	6.81 Ref.	14.78	3.94	6.98	15.52	25.40	4.95	3.94	2.36

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.*	Bulk Price Each 1	100	500	Digi-Key Part No.*	Tape and Reel Pricing 750	1,000	1,500	2,000	2,500
.015 ~ .050	1	1%	—	—	—	—	RW1S0BA(Code)FTR-ND	—	—	—	1760.00/M	—
.100			—	—	—	—	RW1S0BAR100FTR-ND	—	—	—	2246.33/M	—
.005 ~ .050	1	5%	RW1S0BA(Code)JBK-ND	1.79	1.53	—	RW1S0BA(Code)JTR-ND	—	—	—	1426.67/M	—
.150 ~1.00			RW1S0BA(Code)JBK-ND	2.68	2.06	—	RW1S0BA(Code)JTR-ND	—	—	—	1729.85/M	—
.005 ~ .040	1.5	5%	RW1S5CA(Code)JBK-ND	1.83	1.56	—	RW1S5CA(Code)JTR-ND	—	—	1266.67/M	—	—
.150 ~ .500			RW1S5CA(Code)JBK-ND	2.39	2.04	—	RW1S5CA(Code)JTR-ND	—	—	1659.66/M	—	—
.050	2	1%	—	—	—	—	RW2R0DAR050FTR-ND	—	1486.98	—	—	—
.005 ~ .050	2	5%	RW2R0DA(Code)JBK-ND	1.87	1.60	—	RW2R0DA(Code)JTR-ND	—	1306.66	—	—	—
.470 ~ 1.00			RW2R0DA(Code)JBK-ND	2.26	1.92	—	RW2R0DA(Code)JTR-ND	—	1569.82	—	—	—
.005 ~ 050	2	5%	RW2S0CB(Code)JBK-ND	2.36	1.82	—	RW2S0CB(Code)JTR-ND	—	1243.48	—	—	—
.200 ~ 1.00			—	—	—	—	RW2S0CB(Code)JTR-ND	—	1583.66	—	—	—
150.0	2	5%	RW2S0DA(Code)JBK-ND	2.94	2.26	—	RW2S0DA(Code)JTR-ND	—	1569.82	—	—	—
.005 ~ .036	3	5%	RW3R0DB(Code)JBK-ND	2.16	2.05	—	RW3R0DB(Code)JTR-ND	—	1486.35	—	—	—
.075 ~ 150.0			RW3R0DB(Code)JBK-ND	2.45	2.09	—	RW3R0DB(Code)JTR-ND	—	1689.84	—	—	—
.025 ~ .050	3.5	5%	RW3R5EA(Code)JBK-ND	2.29	1.99	—	RW3R5EA(Code)JTR-ND	1192.63	—	—	—	—
.200 ~ 1.00			RW3R5EA(Code)JBK-ND	2.47	2.11	—	RW3R5EA(Code)JTR-ND	1275.25	—	—	—	—
RoHS Compliant												
.010 ~ 100.0	.6	1%	RW0S6BB(Code)FETCT-ND▼	1.25	1.00	.80	RW0S6BB(Code)FETTR-ND	—	—	—	—	938.00/M
.010 ~ .050	1	1%	RW1S0BA(Code)FE-ND	2.66	2.21	1.89	RW1S0BA(Code)FETR-ND	—	—	—	1760.00/M	—
.100	1	1%	RW1S0BAR100FE-ND	3.39	2.82	2.40	RW1S0BAR100FETR-ND	—	—	—	2246.00/M	—
.005 ~ .050	1	5%	RW1S0BA(Code)JE-ND	2.16	1.80	1.53	RW1S0BA(Code)JETR-ND	—	—	—	1427.00/M	—
.075 ~ 1.00			RW1S0BA(Code)JE-ND	2.61	2.17	1.85	RW1S0BA(Code)JETR-ND	—	—	—	1730.00/M	—
.005 ~ .040	1.5	5%	RW1S5CA(Code)JE-ND	1.91	1.58	1.35	RW1S5CA(Code)JETR-ND	—	—	1260.00/M	—	—
.080 ~ .500			RW1S5CA(Code)JE-ND	2.50	2.08	1.76	RW1S5CA(Code)JETR-ND	—	—	1660.00/M	—	—
.050	2	1%	RW2R0DAR050FE-ND	2.24	1.87	1.58	RW2R0DAR050FETR-ND	—	1487.00	—	—	—
.010 ~ .050	2	5%	RW2R0DA(Code)JE-ND	1.96	1.63	1.39	RW2R0DA(Code)JETR-ND	—	1307.00	—	—	—
.100 ~ 1.00			RW2R0DA(Code)JE-ND	2.35	1.96	1.66	RW2R0DA(Code)JETR-ND	—	1570.00	—	—	—
.005 ~ 050	2	5%	RW2S0CB(Code)JE-ND	1.89	1.57	1.34	RW2S0CB(Code)JETR-ND	—	1250.00	—	—	—
.150 ~ 1.00			RW2S0CB(Code)JE-ND	2.39	1.99	1.69	RW2S0CB(Code)JETR-ND	—	1584.00	—	—	—
1.0 ~ 150.0	2	5%	RW2S0DA(Code)JE-ND	2.54	1.96	1.66	RW2S0DA(Code)JETR-ND	—	1570.00	—	—	—
.005 ~ .050	3	5%	RW3R0DB(Code)JE-ND	2.26	1.88	1.59	RW3R0DB(Code)JETR-ND	—	1486.00	—	—	—
.075 ~ 150.0			RW3R0DB(Code)JE-ND	2.42	2.01	1.71	RW3R0DB(Code)JETR-ND	—	1610.00	—	—	—
.010 ~ .050	3.5	5%	RW3R5EA(Code)JE-ND	2.39	1.99	1.69	RW3R5EA(Code)JETR-ND	1192.50	—	—	—	—
.100 ~ 1.00			RW3R5EA(Code)JE-ND	2.55	2.13	1.82	RW3R5EA(Code)JETR-ND	1275.00	—	—	—	—

*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant ▼ Cut Tape

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OHMITE

RC Series — SMD Carbon Composition Power Resistors – .25, .50 and 1 Watt

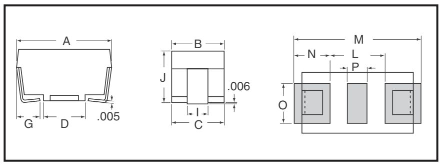

Electrical Specifications

	RC0S2CA	RC0R5DB	RC1R0EA
Power at 25°C Ambient Maximum Voltage	.25 Watt 250	.50 Watt 350	1 Watt 500
Temperature Coefficient	RC0S2CA and RC0R5DB: ±400 ppm/°C RC1R0EA: -1300(±300) ppm/°C		
Dielectric Withstanding Voltage	1000V		

RESISTANCE VALUE CHART

RC0S2CA Value (Code)	RC0R5DB Value (Code)	RC1R0EA Value (Code)
4.7 (4R70)◊	2.7 (2R70)	3.3 (3R30)
6.8 (6R80)◊	7.5 (7R50)◊	4.7 (4R70)
10 (10R0)	15 (15R0)◊	6.8 (6R80)◊
15 (15R0)◊	24 (24R0)◊	8.2 (8R20)◊
20 (20R0)◊	39 (39R0)	10 (10R0)
30 (30R0)◊	56 (56R0)◊	15 (15R0)
47 (47R0)	75 (75R0)	22 (22R0)
68 (68R0)	100 (100R)	33 (33R0)
100 (100R)◊	150 (150R)	47 (47R0)
1.0K (1K00)	270 (270R)◊	68 (68R0)◊
	360 (360R)	100 (100R)
	560 (560R)	
	750 (750R)◊	
	1.0K (1K00)	

Series	Maximum Dimensions - mm A	B	C	D	G	I	J	L	M	N	O	P
RC0S2CA	10.008	4.039	3.962 Ref.	5.588	1.575	1.981	4.038	6.50	13.31	3.40	3.20	1.52
RC0R5DB	15.875	6.934	6.807 Ref.	10.592	1.575	3.632	5.740	12.04	18.85	3.40	3.94	2.36
RC1R0EA	20.599	6.934	6.807 Ref.	14.529	2.362	3.632	6.934	15.52	25.4	4.95	3.94	2.36

Resistance Range (Ω)	Wattage	Tolerance	Type	Digi-Key Part No.*	Bulk Price Each 1	100	500	Digi-Key Part No.*	Tape and Reel Pricing 750	1,000	1,500
4.7 - 100	.25	±5%	Carbon Comp	RC0S2CA(Code)JBK-ND	1.44	1.16	—	RC0S2CA(Code)JTR-ND	—	—	1440.00/M
2.7 - 1.0K	.50	±5%	Carbon Comp	RC0R5DB(Code)JBK-ND	1.80	1.44	—	RC0R5DB(Code)JTR-ND	—	1800.00	—
4.7 - 100	1	±10%	Ceramic Comp	RC1R0EA(Code)KBK-ND	1.52	1.33	—	RC1R0EA(Code)KTR-ND	1470.00	—	—
RoHS Compliant											
10 - 1.0K	.25	±5%	Carbon Comp	RC0S2CA(Code)JE-ND	1.52	1.28	1.10	RC0S2CA(Code)JETR-ND	—	—	988.00/M
2.7 - 360	.50	±5%	Carbon Comp	RC0R5DB(Code)JE-ND	1.76	1.48	1.27	RC0R5DB(Code)JETR-ND	—	1260.00	—
3.3 - 100	1	±10%	Ceramic Comp	RC1R0EA(Code)KE-ND	1.91	1.60	1.37	RC1R0EA(Code)KETR-ND	1004.25	—	—

*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

Macrochip SMD Precision Thick Film Resistors

MacroChip resistors bring precision high voltage capabilities to the surface mount level. Designed with thick film on Alumina substrate technology. The planar package design is low profile for easy use with instrumentation, medical equipment, voltage regulators, and power supplies.

Features: • Non-inductive design • Low voltage coefficient • Surface mount • Pd Ag terminations

Material: • Resistor: Thick film on Alumina substrate

Electrical: • Power at 25°C Ambient: 1.0W • Voltage Rating: 5.0KV • Operating Temperature: -55°C ~ 180°C

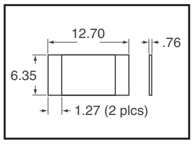

RESISTANCE VALUE CHART

Value	Value	Value	Value
1K	20K	200K◊	2M
2.5K◊	5K	50K	2.5M
10K	50K	500K	5M
12.5K◊	100K	750K	10M
15K◊	125K◊	1M	25M
17.5K	150K◊	1.25M	50M

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.*	Price Each 1	10	50	100	200
2.5K - 1.25M	1	5%	MC102J-(Value)-ND	3.10	2.48	1.86	1.55	—
RoHS Compliant								
1K - 50M	1	5%	MC102JE-(Value)-ND	4.65	3.10	2.48	1.86	1.55

*For complete part number, substitute Digi-Key value from Resistance Value Chart for (Value). ◊ Not available in RoHS Compliant

60S Series — Surface Mount Metal Plate Current Sense Resistors

602SJ and 605SJ

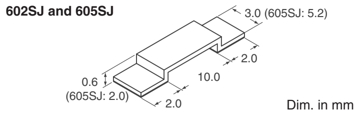

610SJ

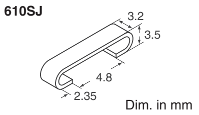

RESISTANCE VALUE CHART

602SJ — .25 Watt Value (Code)	605SJ — .5 Watt Value (Code)	610SJ — 1 Watt Value (Code)
.003 (R00300)	.002 (R00200)	.002 (R00200)
.005 (R00500)	.00375 (R00375)	.003 (R00300)
	.008 (R00800)	

Specifications: • Tolerance: ±5% • TCR (ppm/°C): 602SJ and 605SJ: ±100; 610SJ: ±350 • Rated Ambient Temperature: 602SJ and 605SJ: 70°C; 610SJ: 85°C • Operating Temperature Range: -40°C ~ 155°C

Resistance Range (Ω)	Power Rating (Watt)	Digi-Key Part No.*	Bulk Price Each 1	10	100	Digi-Key Part No.*	Tape and Reel Qty.	Pricing
.003 ~ .005	0.25@25°C	—	—	—	—	602SJ(Code)TR-ND	2,000	600.00/M
.002 ~ .008	0.5@25°C	—	—	—	—	605SJ(Code)TR-ND	2,000	600.00/M
RoHS Compliant								
.003 ~ .005	0.25@25°C	602SJ(Code)E-ND	1.12	.98	.84	602SJ(Code)ETR-ND	2,000	680.00/M
.002 ~ .008	0.5@25°C	605SJ(Code)E-ND	1.12	.98	.84	605SJ(Code)ETR-ND	2,000	680.00/M
.002 ~ .003	1@70°C	610SJ(Code)E-ND	1.12	.98	.84	610SJ(Code)ETR-ND	1,500	680.00/M

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

CS3 Series — Precision Current Sense Resistors

The resistor family line CS3 utilizes state-of-the-art technology to provide a highly reliable resistor with a non-inductive design. This makes the CS3 resistor ideal for many current monitoring and controls applications. **Features:** • Values beginning at 1mΩ • Non Inductive Design • Four terminal Kelvin connection • 100% QC measurement **Specifications: Material**: • Terminal Material: Kelvin Terminals; silver plated and tinned • Encapsulation: Polyester over resistance element **Electrical:** • Resistance Tolerances: 1% • Temperature Coefficient: TC referenced to 25°C, ΔR taken at 15°C and 105°C, 60ppm/°C • Power Rating: 3W at 70°C maximum 40Amp permanent

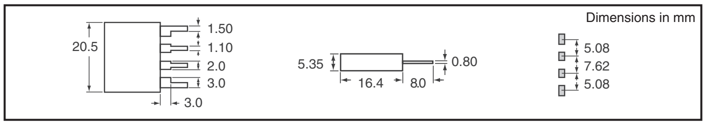

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.001 (R001)	.005 (R005)	.020 (R020)	.050 (R050)
.002 (R002)	.010 (R010)	.030 (R030)	
.003 (R003)	.015 (R015)◊	.036 (R036)◊	

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	10	50
.005 ~ .036	3	CS3F(Code)-ND	9.00	7.88	6.75
RoHS Compliant					
.001 ~ .050	3	CS3F(Code)E-ND	11.70	10.40	9.10

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant.

RW Series — Four-Terminal Current Sense Resistors – 1 Watt

Features: • Extremely low resistance and high precision tolerance • Low TCR achieved (±50ppm/°C) • Flameproof UL94-V-0 • Marking: Black body color with white marking

Specifications: • Dielectric Withholding Voltage: 500V • TCR (maximum): ±50ppm/°C • Rated Ambient Temperature: 70°C • Operating Temperature Range: -55°C ~ 125°C

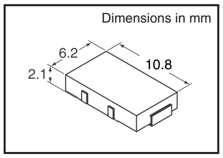

RESISTANCE VALUE CHART

Value (Code)	Value (Code)
.005 (R005)	.025 (R025)
.010 (R010)	.050 (R050)

Resistance Range (Ω)	Tolerance	Digi-Key Part No.*	Bulk Price Each 1	10	100	Digi-Key Part No.*	Tape and Reel Pricing 1,000
.005 ~ .050	±0.5%	RW1S0CK(Code)DE-ND	6.32	4.22	3.86	RW1S0CK(Code)DETR-ND	3252.00
.005 ~ .050	±1%	RW1S0CK(Code)FE-ND	5.94	3.96	3.58	RW1S0CK(Code)FETR-ND	3080.00

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

OHMITE Four Terminal High Precision Current Sense Resistors

Current Sense Resistors enable the measurement of current flow in a circuit by monitoring a voltage drop across a precisely calibrated resistance. The LVK chip features four terminals, also know as a "Kelvin" configuration. This configuration enables current to be applied through two opposite terminals and a sensing voltage to be measured across the other two terminals, eliminating the resistance and temperature coefficient of the terminals for a more accurate current measurement. Isolating the voltage and current terminals (see schematic) facilitates a very accurate current measurement. Ohmite's proprietary technology offers an excellent Temperature Coefficient of Resistance (TCR) even for very low resistance values. The resistive element consists of a durable, anti-corrosive reliable performance with the ability to withstand harsh environments.

FEATURES: • Working Temperature Range: -55°C ~ 200°C

SPECIFICATIONS: • Operating Temperature Range: -40°C ~ 125°C

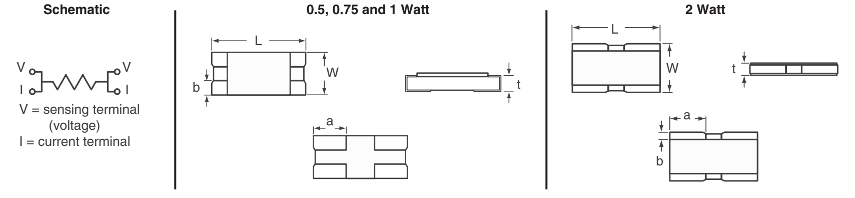
Schematic · 0.5, 0.75 and 1 Watt · 2 Watt

V = sensing terminal (voltage)
I = current terminal

Series	Package Size	Power Rating (@70°C)	Resistance Range (Ω)	Temperature Coefficient (ppm/°C)	Dimensions - mm L	W	t	a	b
LVK12	1206	0.5W	.01 ~ .05	50ppm	3.2 ±0.2	1.6 ±0.2	0.5 ±0.15	1.0 ±0.2	0.55 ±0.2
LVK20	2010	0.75W	.01 ~ .05	50ppm	5.0 ±0.2	2.5 ±0.2	0.5 ±0.15	1.7 ±0.2	0.9 ±0.2
LVK24	2412	1.0W	.01 ~ .05	50ppm	6.4 ±0.2	3.2 ±0.2	0.5 ±0.15	2.1 ±0.2	1.2 ±0.2
LVK25	1224	2.0W	.001 .002 ~ .004 .005 ~ .01	300ppm 200ppm 100ppm	3.2 ±0.2	6.4 ±0.2	0.5 ±0.2	0.4 ±0.2	2.7 ±0.2

LVK12( )DER .5% RESISTANCE VALUE CHART

Value (Code)
.01 **(R010)**
.02 **(R020)**
.03 **(R030)**
.05 **(R050)**

LVK12( )FER 1% RESISTANCE VALUE CHART

Value (Code)	Value (Code)
.01 **(R010)**	.03 **(R030)**
.012 **(R012)**	.047 **(R047)**
.02 **(R020)**	.05 **(R050)**
.024 **(R024)**	

LVK20( )DER .5% RESISTANCE VALUE CHART

Value (Code)
.01 **(R010)**
.02 **(R020)**
.03 **(R030)**
.05 **(R050)**

LVK20( )FER 1% RESISTANCE VALUE CHART

Value (Code)	Value (Code)
.01 **(R010)**	.03 **(R030)**
.015 **(R015)**	.039 **(R039)**
.02 **(R020)**	.05 **(R050)**
.027 **(R027)**	

LVK24( )DER .5% RESISTANCE VALUE CHART

Value (Code)
.01 **(R010)**
.02 **(R020)**
.03 **(R030)**
.05 **(R050)**

LVK24( )FER 1% RESISTANCE VALUE CHART

Value (Code)	Value (Code)
.01 **(R010)**	.03 **(R030)**
.012 **(R012)**	.039 **(R039)**
.015 **(R015)**	.047 **(R047)**
.02 **(R020)**	.05 **(R050)**

LVK25( )FER 1% RESISTANCE VALUE CHART

Value (Code)
.001 **(R001)**
.002 **(R002)**
.003 **(R003)**
.005 **(R005)**
.01 **(R010)**

Series	Tolerance	Resistance Range (Ω)	Digi-Key Part No.†	Cut Tape Price Each 1	50	100	Digi-Key Part No.†	Tape and Reel Pricing 1,000	Ohmite Part No.
LVK12	.5%	.01 ~ .05	LVK12**(Code)**DERCT-ND	.43	.39	.34	LVK12**(Code)**DERTR-ND	290.00	LVK12**(Code)**DER
	1%	.01 ~ .05	LVK12**(Code)**FERCT-ND	.38	.34	.30	LVK12**(Code)**FERTR-ND	260.00	LVK12**(Code)**FER
LVK20	.5%	.01 ~ .05	LVK20**(Code)**DERCT-ND	.70	.63	.56	LVK20**(Code)**DERTR-ND	480.00	LVK20**(Code)**DER
	1%	.01 ~ .05	LVK20**(Code)**FERCT-ND	.63	.57	.50	LVK20**(Code)**FERTR-ND	430.00	LVK20**(Code)**FER
LVK24	.5%	.01 ~ .05	LVK24**(Code)**DERCT-ND	1.05	.95	.84	LVK24**(Code)**DERTR-ND	720.00	LVK24**(Code)**DER
	1%	.01 ~ .05	LVK24**(Code)**FERCT-ND	.88	.79	.70	LVK24**(Code)**FERTR-ND	600.00	LVK24**(Code)**FER
LVK25	1%	.001 ~ .01	LVK25**(Code)**FERCT-ND	1.25	1.13	1.00	LVK25**(Code)**FERTR-ND	850.00	LVK25**(Code)**FER

† For complete part number, substitute the code from Resistance Value Charts for **(Code)**.

WL Series — Miniature Wirewound Current Sense Resistors

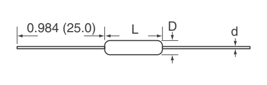

Type	Dimensions – Inch (mm) L	D	d
WLA	.200 (5.08)	.10 (2.54)	.024 (.60)
WLB	.276 (7.00)	.12 (3.00)	.024 (.60)
WLC	.450 (11.4)	.27 (6.86)	.031 (.80)

RESISTANCE VALUE CHART

WLA Value (Code)	WLB Value (Code)	WLC Value (Code)
.005 (R005)	.005 (R005)	.010 (R010)
.010 (R010)	.010 (R010)	.015 (R015)
.015 (R015)	.015 (R015)	.020 (R020)
.020 (R020)	.020 (R020)	.025 (R025)
.025 (R025)	.025 (R025)	.030 (R030)
.030 (R030)	.030 (R030)	.050 (R050)
.050 (R050)	.050 (R050)	.100 (R100)
.100 (R100)	.100 (R100)	

Features: • Ultra-low ohmic value series for current sensing applications • Very low inductive value (<1nH at 1MHz test) to meet the most stringent industry requirements **Specifications: Material:** • Ceramic Core: CeramTec Rubalit® 708 96% alumina • End Caps: Stainless steel, precision formed • Leads: Copper wire, 100% Sn (lead free) coated • CN49W alloy resistance wire TC ±20ppm/°C • Encapsulation: SUMICON 1100/1200 Epoxy molding compound for IC encapsulation **Electrical:** Tolerance: ±1.0%

Resistance Range (Ω)	Power Rating (Watt)	Digi-Key Part No.*	Cut Tape Price Each 1	25	100	Digi-Key Part No.*	Tape and Reel Pricing 1,000
.005 ~ .100	0.5	WLA(Code)FECT-ND	.85	.77	.68	WLA(Code)FETR-ND	530.00
.005 ~ .100	1.0	WLB(Code)FECT-ND	.85	.77	.68	WLB(Code)FETR-ND	530.00
.010 ~ .100	2.0	WLC(Code)FECT-ND	.85	.77	.68	WLC(Code)FETR-ND	530.00

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

10 Series — Molded Silicone Axial Terminal Wire Element Current Sense Resistors

Fig. 1

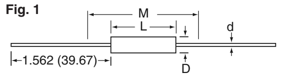

Fig. 2

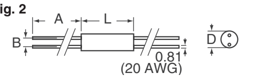

Series	Maximum Dimensions – mm A	B	D	L	d	M
12F	—	—	2.39	10.57	.81	29.36
13F	—	—	5.21	14.48	.81	33.27
15F	—	—	8.38	23.75	1.02	42.55
13FP	31.75	3.18	5.08	15.88	—	—
14FP	38.1	5.08	8.51	26.92	—	—
17FP	38.1	5.08	9.53	38.1	—	—

RESISTANCE VALUE CHART

12F Series Value (Code)	13F Series Value (Code)	15F Series Value (Code)	13FP, 14FP, 17FP Value (Code)
.005 (R005)	.005 (R005)	.005 (R005)	.005 (R005)
.010 (R010)	.010 (R010)	.010 (R010)	.010 (R010)
.015 (R015)	.015 (R015)	.015 (R015)	.015 (R015)
.020 (R020)	.020 (R020)	.020 (R020)	.020 (R020)
.025 (R025)	.025 (R025)	.025 (R025)	.025 (R025)
.030 (R030)	.030 (R030)	.030 (R030)	.050 (R050)
.040 (R040)	.040 (R040)	.040 (R040)	.060 (R060)
.050 (R050)	.050 (R050)	.050 (R050)	.075 (R075)
.070 (R070)	.070 (R070)	.070 (R070)	.090 (R090)
	.100 (R100)	.100 (R100)	.100 (R100)
	.150 (R150)	.150 (R150)	
	.200 (R200)	.200 (R200)	
		.250 (R250)	

12F, 13F, 15F Series: Electrical Specifications: • Resistance Tolerance: ±1% (F Type) • Power Rating: Based on 25°C free air rating • Overload: 5x rated power for 5 seconds • Dielectric Withstanding Voltage: 2 Watt: 500VRMS, 3 and 5 Watt: 1000VRMS • Insulation Resistance: Not less than 1000MΩ • Temperature Range: -55°C ~ 275°C

13FP, 14FP, 17FP Series: Electrical Specifications: • Resistance Tolerance: ±1% (F Type) • Temperature Coefficient of Resistance: 0°C ~ 85°C: ≥0.015Ω: ±50PPM/°C <0.015Ω: ±100PPM/°C • Power Rating: Based on 25°C free air rating • Overload: 5x rated power for 5 seconds • Dielectric Withstanding Voltage: 3 Watt: 1000VAC, 4.5 and 7 Watt: 1500VAC • Insulation Resistance: Not less than 1000MΩ • Thermal EMF: Less than ±2μV/°C • Temperature Range: -55°C ~ 200°C

Fig.	Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	10	100	250
1	.020	2	12FR020-ND	1.55	1.39	1.30	—
	.050	5	15FR050-ND	2.00	1.75	1.55	—
RoHS Compliant							
1	.005 ~ .020	2	12F(Code)E-ND	1.72	1.55	1.39	1.30
	.025 ~ .040	2	12F(Code)E-ND	1.72	1.54	1.37	1.29
	.050	2	12F(Code)E-ND	1.61	1.46	1.30	1.22
	.070	2	12F(Code)E-ND	1.73	1.55	1.39	1.30
	.005	3	13F(Code)E-ND	1.72	1.55	1.38	1.29
	.010 ~ .015	3	13F(Code)E-ND	1.62	1.46	1.31	1.23
	.020 ~ .030	3	13F(Code)E-ND	1.55	1.40	1.24	1.16
	.040 ~ .050	3	13F(Code)E-ND	1.53	1.37	1.22	1.15
	.070 ~ .200	3	13F(Code)E-ND	1.72	1.55	1.38	1.29
	.005	5	15F(Code)E-ND	2.05	1.85	1.64	1.54
	.010 ~ .030	5	15F(Code)E-ND	1.97	1.78	1.58	1.48
	.040 ~ .050	5	15F(Code)E-ND	1.93	1.75	1.55	1.45
	.070 ~ .250	5	15F(Code)E-ND	1.90	1.72	1.53	1.43
2	.005 ~ .100	3	13FP(Code)E-ND	5.07	3.81	2.74	2.54
	.005 ~ .100	4.5	14FP(Code)E-ND	5.94	4.46	3.21	2.97
	.005 ~ .100	7	17FP(Code)E-ND	6.87	5.16	3.72	3.33

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

OHMITE 60 Series — Metal Element Current Sensing Resistors

These non-inductive, 3-piece welded element resistors offer a reliable low-cost alternative to conventional resistors. **Features:** • Low inductance • Low cost • Wirewound performance • Flameproof **Material:** • Resistor: Nichrome resistive element • Terminals: Copper clad steel or copper depending on style **Derating:** • Linearly from 100% @ 25°C ~ 0% @ 275°C **Electrical:** • Power rating: Based on 25°C ambient • Overload: 5x rated power for 5 seconds • Inductance: <10nh • To calculate maximum amps use the formula $\sqrt{P/R}$

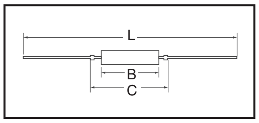

Part Number	Dimensions - Inches L	B max.	C	Lead Ga.
604HR010	3.530	.250	.559	22
604HR020	3.530	.250	.559	22
604HR025	3.530	.250	.559	22
605HR010	3.685	.355	1.310	20
605HR020	3.685	.330	1.310	20
605HR030	3.685	.330	1.310	20
605HR100	3.981	.750	1.675	18
607HR050	3.587	.630	1.106	20
607HR005	3.674	.320	1.310	20
610HR005	3.587	.650	1.125	20
610HR010	3.587	.630	1.106	20
610HR020	3.587	.630	1.106	20
610HR030	3.587	.650	1.106	20
610HR050	3.981	.750	1.675	18
615HR010	3.981	.750	1.675	18
615HR020	3.981	.750	1.675	18
615HR030	3.981	.750	1.675	18
620HR005	3.981	.750	1.675	18
630HR010	4.125	.781	1.68	18
630HR025	4.125	1.279	2.125	18
630HR050	4.125	1.664	2.375	18

RESISTANCE VALUE CHART

604HR Value (Code)	605HR Value (Code)	607HR Value (Code)	610HR Value (Code)	615HR Value (Code)	620HR Value (Code)	630HR Value (Code)
.010 (010)	.010 (010)	.005 (005)	.005 (005)	.010 (010)	.005 (005)	.010 (010)
.020 (020)	.020 (020)	.050 (050)	.010 (010)	.020 (020)		.025 (025)
.025 (025)	.030 (030)		.020 (020)	.030 (030)		.050 (050)
	.100 (100)		.030 (030)			
			.050 (050)			

Resistance Range (Ω)	Tolerance	Wattage	Digi-Key Part No.*	Price Each 1	100	1,000
.010 ~ .020	±3%	.50	605HR(Code)-ND	.48	.42	.34
.005 ~ .050	±3%	1	610HR(Code)-ND	.42	.36	.29
.020 ~ .030	±3%	1.5	615HR(Code)-ND	.48	.42	.34
RoHS Compliant						
.010 ~ .025	±3%	.375	604HR(Code)E-ND	.48	.42	.34
.010 ~ .100	±3%	.50	605HR(Code)E-ND	.48	.42	.34
.050	±3%	.75	607HR(Code)E-ND	.48	.42	.34
.005 ~ .050	±3%	1	610HR(Code)E-ND	.48	.42	.34
.010 ~ .030	±3%	1.5	615HR(Code)E-ND	.48	.42	.34
.005	±3%	2	620HR(Code)E-ND	.48	.42	.34
.010 ~ .050	±3%	3	630HR(Code)E-ND	.48	.42	.34

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

60 Series — Four Terminal Current Sensing Shunt Resistors

Dimensions in mm

610FP

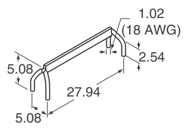

650FP

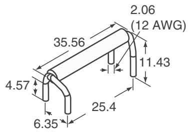

Specifications:
- TCR @ 0°C ~ 85°C: >0.015Ω: ±50PPM/°C; <0.015Ω: ±100PPM/°C
- Power Rating: Based on 25°C free air rating
- Overload: 5x rated wattage for 5 seconds
- Derating: Linearly from 100% @ +25°C ~ 0% @ 275°C
- Operating Temperature Range: -55°C ~ 275°C

RESISTANCE VALUE CHART — 650FP

Value (Code)
.002 (R002)
.005 (R005)

Resistance Range (Ω)	Tolerance	Wattage	Digi-Key Part No.*	Price Each 1	10	100
.050	±1%	1	610FPR050E-ND	8.01	6.01	4.33
.002 ~ .005	±1%	5	650FP(Code)E-ND	9.84	7.38	5.31

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

TGH Series Resistors — 100, 120 and 200 Watt

Dimensions in mm

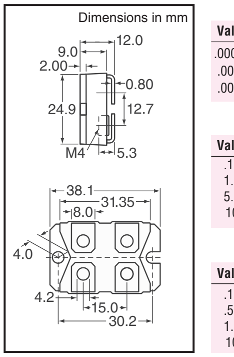

100W — RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.0005 (R0005)	.005 (R0050)	.02 (R0200)	.075 (R0750)
.001 (R0010)	.01 (R0100)	.025 (R0250)	.1 (R1000)
.002 (R0020)	.015 (R0150)	.05 (R0500)	

120W — RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R100)	33 (33R0)	500 (500R)	10.0K (10K0)
1.0 (1R00)	50 (50R0)	680 (680R)	
5.0 (5R00)	100 (100R)	1.0K (1K00)	
10 (10R0)	150 (150R)	5.0K (5K00)	

200W — RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R100)	25 (25R0)	500 (500R)	10.0K (10K0)
.50 (R500)	33 (33R0)	680 (680R)	
1.0 (1R00)	100 (100R)	1.0K (1K00)	
10 (10R0)	150 (150R)	5.0K (5K00)	

Due to a non inductive design these resistors are ideally suited for high frequency and pulse load applications. By direct mounting on a heatsink, significant cost advantages can be realized.

Material Specifications: • Heat Sink: Nickel-plated Copper • Contacts: Nickel-plated Copper • Molding Compound: High performance epoxy compliant to UL94-V0 **Electrical Specifications:** • Tolerance: 5% • Temperature coefficient: ±250 (at 105°C ref. to 25°C) • Maximum Working Voltage: 500V • Working Temperature Range: -55°C ~155°C

Wattage	Resistance Range (Ω)	Digi-Key Part No.*	Price Each 1	10	20	100
NEW! Precision Current Sense Resistors NEW!						
100	.0005 ~ .02	TGHGC(Code)FE-ND	34.60	31.46	28.60	26.99
	.025 ~ .1	TGHGC(Code)FE-ND	42.05	38.24	34.76	33.55
Thick Film Power Resistors						
120	.10 ~ 1.0	TGHHV(Code)JE-ND	41.05	37.32	33.93	31.69
	5.0	TGHHV(Code)JE-ND	37.04	33.67	30.61	28.58
	10 ~ 10K	TGHHV(Code)JE-ND	35.98	32.71	29.73	27.77
200	.10 ~ 1.0	TGHLV(Code)JE-ND	50.96	46.33	42.12	39.33
	10 ~ 10K	TGHLV(Code)JE-ND	44.36	40.33	36.66	34.23

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

OX / OY Resistor Series — Ceramic Composition

Features: • Replaces 1 and 2 watt carbon composition resistors • Meets high energy density demands • High peak power • 10% Tolerance **Material:** • Terminals: Solder-coated axial leads • Coating: UL-94 V0 approved silicone **Derating:** • Linear from 100% @ 70°C ~ 0% @ 200°C **Electrical:** • Resistance Tolerance: ±10% standard • Power Rating: Based on 70°C free air rating • Temperature Coefficient: -1300 ±300ppm/°C • Dielectric Withstanding Voltage: 500VAC (750VAC for OY Series) • Joules Maximum (For a single impulse): 50 (80 for OY Series)

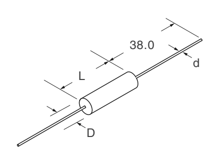

Series	Max. Dimensions — Inch (mm) D	L	d
OX	.256 (6.5)	.649 (16.5)	.030 (.81)
OY	.315 (8.0)	.787 (20.0)	.030 (.81)

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
3.3 (33GK)	33 (330K)	330 (331K)	3.3K (332K)	33K (333K)	330K (334K)
3.9 (39GK)	39 (390K)	390 (391K)	3.9K (392K)	39K (393K)‡	390K (394K)
4.7 (47GK)	47 (470K)	470 (471K)	4.7K (472K)	47K (473K)	470K (474K)
5.6 (56GK)	56 (560K)	560 (561K)	5.6K (562K)	56K (563K)	560K (564K)
6.8 (68GK)	68 (680K)	680 (681K)	6.8K (682K)‡	68K (683K)	680K (684K)
8.2 (82GK)	82 (820K)	820 (821K)	8.2K (822K)	82K (823K)	820K (824K)
10 (100K)	100 (101K)	1K (102K)	10K (103K)	100K (104K)	1MEG (105K)
12 (120K)	120 (121K)	1.2K (122K)	12K (123K)◊	120K (124K)	
15 (150K)	150 (151K)	1.5K (152K)	15K (153K)	150K (154K)	
18 (180K)	180 (181K)	1.8K (182K)	18K (183K)‡	180K (184K)	
22 (220K)	220 (221K)	2.2K (222K)	22K (223K)	220K (224K)	
27 (270K)	270 (271K)	2.7K (272K)	27K (273K)	270K (274K)	

Resistance Range (Ω)	Watt-age	Joules Max.**	Digi-Key Part No.*	Price Each 1	100	1,000
6.8 ~ 68	1	50	OX(Code)-ND	.84	.68	.55
3.9K ~ 33K	1	50	OX(Code)-ND	.86	.70	.56
680 ~ 56K	2	80	OY(Code)-ND	1.15	.92	.75
150K	2	80	OY(Code)-ND	1.34	1.07	.88
RoHS Compliant						
3.3 ~ 5.6, 8.2 ~ 12	1	50	OX(Code)E-ND	.85	.68	.55
18 ~ 100, 120 ~ 10K,	1	50	OX(Code)E-ND	.94	.76	.61
15K ~ 100K	1	50	OX(Code)E-ND	.87	.70	.56
3.3 ~ 6.8, 10 ~ 100, 120 ~ 1K	2	80	OY(Code)E-ND	1.23	.99	.82
1.5K ~ 10K, 15K ~ 100K	2	80	OY(Code)E-ND	1.14	.91	.75
120K, 150K, 220K ~ 1M	2	80	OY(Code)E-ND	1.34	1.07	.88

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ** For a single impulse. ‡ Not available in OX Series RoHS Compliant ◊ Not available in RoHS Compliant

OHMITE OD, OF and OA Series — Little Demon® Carbon Composition Molded Resistors

Little Demons are small, reliable carbon composition resistors with exceptional strength. They are made tough by a molding process that combines the leads, insulation and resistive element into an integrated unit. Along with their small size, Little Demons perform with low noise, dissipate heat rapidly and offer high temperature stability. Color codes are readable even after prolonged use, thanks to a very durable coating that resists abrasions and chipping normally associated with automatic insertion equipment.

Features: • Molded insulation for high dielectric strength • Rugged construction • High surge capabilities • Comparable to "Mil" RC07, RC20, and RC32 types **Material:** • Terminals: Solder-coated copper lead • Body: Molded Phenolic **Electrical:** • Derating: Linearly from 100% @ 70°C ~ 0% @ 130°C

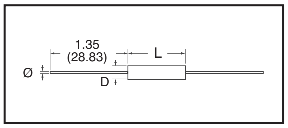

Series	Maximum Dimensions Inch (mm) L	D	Ø
OD	0.276 (7.0)	0.098 (2.5)	.027 (.69)
OF	0.406 (10.3)	0.150 (3.8)	.029 (.75)
OA	0.591 (15.0)	0.236 (6.0)	.035 (.92)

OD SERIES — RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GJ)	15 (150J)	120 (121J)	1.0K (102J)	10K (103J)	68K (683J)	560K (564J)
2.4 (24GJ)	18 (180J)	150 (151J)	1.2K (122J)	12K (123J)	75K (753J)	620K (624J)
3.0 (30GJ)	20 (200J)	180 (181J)	1.5K (152J)	15K (153J)	82K (823J)	680K (684J)
3.3 (33GJ)	22 (220J)	200 (201J)	1.8K (182J)	18K (183J)	100K (104J)	750K (754J)
3.6 (36GJ)	24 (240J)	220 (221J)	2.2K (222J)	20K (203J)	120K (124J)	820K (824J)
3.9 (39GJ)	27 (270J)	240 (241J)	2.4K (242J)	22K (223J)	150K (154J)	1.0M (105J)
4.3 (43GJ)	30 (300J)	270 (271J)	2.7K (272J)	24K (243J)◊	180K (184J)	1.5M (155J)
4.7 (47GJ)	33 (330J)	300 (301J)	3.0K (302J)	27K (273J)	200K (204J)	2.0M (205J)
5.1 (51GJ)	36 (360J)	330 (331J)	3.3K (332J)	33K (333J)	220K (224J)	2.4M (245J)
5.6 (56GJ)	39 (390J)	360 (361J)	3.6K (362J)	36K (363J)	270K (274J)	3.0M (305J)
6.2 (62GJ)	43 (430J)	390 (391J)	3.9K (392J)	39K (393J)	300K (304J)	3.6M (365J)
6.8 (68GJ)	47 (470J)	430 (431J)	4.3K (432J)	43K (433J)	330K (334J)	4.3M (435J)
7.5 (75GJ)	56 (560J)	470 (471J)	4.7K (472J)	47K (473J)	360K (364J)◊	4.7M (475J)
8.2 (82GJ)	62 (620J)	560 (561J)	5.6K (562J)	51K (513J)	390K (394J)	5.6M (565J)
10 (100J)	75 (750J)	620 (621J)	6.2K (622J)	56K (563J)	430K (434J)	
12 (120J)	82 (820J)	750 (751J)	7.5K (752J)	62K (623J)	470K (474J)	
	100 (101J)	820 (821J)	8.2K (822J)		510K (514J)	

OF SERIES RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GJ)	18 (180J)	180 (181J)	1.8K (182J)	20K (203J)	150K (154J)	1.5M (155J)
2.4 (24GJ)	20 (200J)	200 (201J)	2.2K (222J)	22K (223J)	180K (184J)	2.0M (205J)
2.7 (27GJ)	22 (220J)	220 (221J)	2.4K (242J)	24K (243J)	200K (204J)	3.0M (305J)
3.0 (30GJ)	27 (270J)	240 (241J)	2.7K (272J)	27K (273J)	220K (224J)	3.6M (365J)◊
3.3 (33GJ)	30 (300J)	270 (271J)	3.0K (302J)	30K (303J)	270K (274J)	4.3M (435J)◊
3.9 (39GJ)	33 (330J)	300 (301J)	3.3K (332J)	33K (333J)	300K (304J)	4.7M (475J)
4.3 (43GJ)	39 (390J)	330 (331J)	3.6K (362J)◊	36K (363J)◊	330K (334J)	5.6M (565J)
4.7 (47GJ)	47 (470J)	360 (361J)	3.9K (392J)	39K (393J)	360K (364J)◊	6.8M (685J)
5.1 (51GJ)	56 (560J)	390 (391J)	4.3K (432J)	43K (433J)	390K (394J)◊	7.5M (755J)
5.6 (56GJ)	62 (620J)	430 (431J)	4.7K (472J)	47K (473J)	430K (434J)◊	8.2M (825J)
6.2 (62GJ)◊	75 (750J)	470 (471J)	5.6K (562J)	51K (513J)	470K (474J)	10M (106J)
6.8 (68GJ)	82 (820J)	560 (561J)	6.2K (622J)	56K (563J)	560K (564J)	12M (126J)
7.5 (75GJ)	100 (101J)	620 (621J)	8.2K (822J)	62K (623J)◊	620K (624J)◊	15M (156J)
8.2 (82GJ)◊	120 (121J)	750 (751J)	10K (103J)	68K (683J)	680K (684J)	18M (186J)
10 (100J)	150 (151J)	820 (821J)	12K (123J)	82K (823J)	750K (754J)◊	20M (206J)
12 (120J)		1.0K (102J)	15K (153J)	100K (104J)	1.0M (105J)	
15 (150J)		1.2K (122J)	18K (183J)	120K (124J)		
		1.5K (152J)				

OA SERIES — RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GK)	33 (330K)	330 (331K)	3.9K (392K)	47K (473K)
2.7 (27GK)	39 (390K)	390 (391K)◊	4.7K (472K)	56K (563K)◊
3.3 (33GK)	47 (470K)	470 (471K)	5.6K (562K)◊	100K (104K)
4.7 (47GK)	56 (560K)	680 (681K)	8.2K (822K)◊	120K (124K)
5.6 (56GK)	82 (820K)	820 (821K)	10K (103K)	220K (224K)
8.2 (82GK)◊	100 (101K)	1.0K (102K)	12K (123K)	270K (274K)
10 (100K)	120 (121K)	1.2K (122K)	15K (153K)	390K (394K)◊
12 (120K)	150 (151K)	1.5K (152K)	18K (183K)	470K (474K)
15 (150K)	180 (181K)	2.2K (222K)	22K (223K)	560K (564K)
18 (180K)	220 (221K)	2.7K (272K)	27K (273K)	680K (684K)
22 (220K)	270 (271K)	3.3K (332K)◊	33K (333K)	820K (824K)◊
27 (270K)				1.0M (105K)

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.*	Price Each 1	100	500
2.4 - 3.0M	.25	±5%	OD(Code)-ND	.40	.34	.31
3.0 - 18M	.50	±5%	OF(Code)-ND	.54	.45	.41
8.2 - 820K	1	±10%	OA(Code)-ND	1.94	1.77	1.60
			RoHS Compliant			
2.2 - 5.6M	.25	±5%	OD(Code)E-ND	.42	.35	.32
2.2 - 20M	.50	±5%	OF(Code)E-ND	.54	.45	.41
2.2 - 1.0M	1	±10%	OA(Code)E-ND	1.94	1.77	1.60

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

33J, 35J and 30J Series — High Energy Wirewound Resistors

Specifications:
• Resistance Tolerance: ±5% • Contact Type: 2 Terminals - Axial

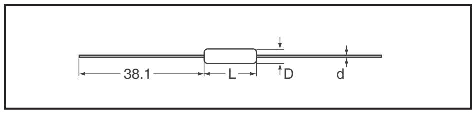

RESISTANCE VALUE CHART

33J Series Value (Code)	33J Series Value (Code)	35J Series Value (Code)	30J Series Value (Code)	30J Series Value (Code)
1.0 (1R0)	25 (25R)	1.5 (1R5)	2.0 (2R0)	82 (82R)◊
5.0 (5R0)◊	30 (30R)◊	7.5 (7R5)	6.8 (6R8)◊	100 (100)
10 (10R)	50 (50R)	18 (18R)◊	15 (15R)	
15 (15R)	100 (100)	22 (22R)	27 (27R)	
20 (20R)◊		47 (47R)	33 (33R)	

Resistance Range (Ω)	Power (Watt)	Voltage	Lead AWG	Dimensions - mm d	D	L	Digi-Key Part No.*	Price Each 1	10	100
5.0 ~ 30	3.0	200	20	.032	5.5	15.1	33J(Code)-ND	1.24	1.02	.92
7.5 ~ 18	5.0	460	18	.0403	8.7	23.8	35J(Code)-ND	1.29	1.15	1.00
6.8 ~ 82	10.0	1000	18	.0403	10.3	41.7	30J(Code)-ND	1.67	1.48	1.29
					RoHS Compliant					
1.0 ~ 100	3.0	200	20	.032	5.5	15.1	33J(Code)E-ND	1.24	1.02	.92
1.5 ~ 47	5.0	460	18	.0403	8.7	23.8	35J(Code)E-ND	1.37	1.13	1.00
2.0 ~ 100	10.0	1000	18	.0403	10.3	41.7	30J(Code)E-ND	1.78	1.47	1.31

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

WH Series and Non-Inductive WN Series — Miniature Molded Wirewound Resistors

RoHS COMPLIANT

Specifications: Material: • Ceramic Core: CeramTec Rubalit® 708 96% alumina • End Caps: Stainless steel, precision formed • Terminals: Copper wire, 100% Sn (lead free) coated • ISAOHM alloy resistance wire TC ±20ppm/°C • Encapsulation: SUMICON 1100/1200 Epoxy molding compound for IC encapsulation **Electrical:** • Tolerance: ±1.0% **Features:** • WN Series, Aryton Perry winding Non-Inductive • Inductance <nH at 1MHz test

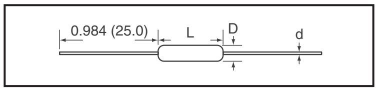

Type	Dimensions Inch (mm) L	D	d
WHA, WNA	.200 (5.08)	.10 (2.54)	.024 (.60)
WHB, WNB	.276 (7.00)	.12 (3.00)	.024 (.60)
WHC, WNC	.450 (11.4)	.27 (6.86)	.031 (.80)

RESISTANCE VALUE CHARTS

WHA

Value (Code)	Value (Code)
.10 (R10)	75 (75R)
.25 (R25)	100 (100)
.50 (R50)	150 (150)
.75 (R75)	200 (200)
1.0 (1R0)	250 (250)
5.0 (5R0)	330 (330)
10 (10R)	470 (470)
15 (15R)	560 (560)
25 (25R)	1.0K (1K0)
51 (51R)	

WHB

Value (Code)	Value (Code)
.10 (R10)	100 (100)
.25 (R25)	150 (150)
.50 (R50)	200 (200)
.75 (R75)	250 (250)
1.0 (1R0)	330 (330)
5.0 (5R0)	470 (470)
10 (10R)	560 (560)
25 (25R)	750 (750)
51 (51R)	1.0K (1K0)
75 (75R)	2.5K (2K5)

WHC

Value (Code)	Value (Code)
.10 (R10)	75 (75R)
.25 (R25)	100 (100)
.50 (R50)	150 (150)
.75 (R75)	200 (200)
1.0 (1R0)	330 (330)
5.0 (5R0)	560 (560)
10 (10R)	750 (750)
15 (15R)	1.0K (1K0)
51 (51R)	

WNA (Non-Inductive)

Value (Code)	Value (Code)
.50 (R50)	51 (51R)
.75 (R75)	75 (75R)
1.0 (1R0)	100 (100)
5.0 (5R0)	150 (150)
10 (10R)	200 (200)
15 (15R)	250 (250)
25 (25R)	

WNB (Non-Inductive)

Value (Code)	Value (Code)
.10 (R10)	75 (75R)
.25 (R25)	100 (100)
.50 (R50)	150 (150)
.75 (R75)	200 (200)
1.0 (1R0)	330 (330)
5.0 (5R0)	560 (560)
10 (10R)	750 (750)
15 (15R)	1.0K (1K0)
51 (51R)	

WNC (Non-Inductive)

Value (Code)	Value (Code)
.10 (R10)	51 (51R)
.50 (R50)	75 (75R)
.75 (R75)	100 (100)
1.0 (1R0)	150 (150)
2.0 (2R0)	200 (200)
5.0 (5R0)	330 (330)
10 (10R)	470 (470)
15 (15R)	750 (750)
25 (25R)	1.0K (1K0)

Resistance Range (Ω)	Power Rating (Watt)	Digi-Key Part No.*	Cut Tape Price Each 1	25	100	Digi-Key Part No.*	Tape and Reel Pricing 1,000
.10 ~ 1.0K	0.5	WHA(Code)FECT-ND	.80	.72	.64	WHA(Code)FETR-ND	500.00
.10 ~ 2.5K	1.0	WHB(Code)FECT-ND	.80	.72	.64	WHB(Code)FETR-ND	500.00
.10 ~ 1.0K	2.0	WHC(Code)FECT-ND	.80	.72	.64	WHC(Code)FETR-ND	500.00
.50 ~ 250	0.5	WNA(Code)FECT-ND	.88	.79	.70	WNA(Code)FETR-ND	620.00
.10 ~ 1.0K	1.0	WNB(Code)FECT-ND	.88	.79	.70	WNB(Code)FETR-ND	620.00
.10 ~ 1.0K	2.0	WNC(Code)FECT-ND	.88	.79	.70	WNC(Code)FETR-ND	620.00

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

OHMITE

Silicone - Ceramic Conformal Wirewound Resistors

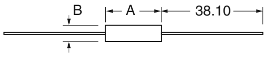

Resistor Series	Maximum Length A - mm	Maximum Diameter B - mm	Lead Diameter mm
40F Series			
41F	11.10	3.18	.51
43F	15.06	5.54	.81
45F	23.80	8.71	1.02
40J Series			
41J	11.10	3.18	.51
42J	10.30	5.60	.81
43J	15.06	5.54	.81
45J	23.80	8.71	1.02
40J	41.70	10.30	1.02

Electrical Specifications:	41F Series	43F Series	45F Series
Resistance Tolerance	±1%	±1%	±1%
Power Rating Ambient Temperature	1W @ 25°C	3W @ 25°C	5W @ 25°C
Temperature Coefficient of Resistance	Under 1Ω — ±90ppm/°C 1Ω ~ 9.99Ω — ±50ppm/°C 10Ω and over — ±20ppm/°C		
Dielectric Withstanding Voltage	250VAC	500VAC	500VAC
Short Time Overload	5 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds	10 times rated wattage for 5 seconds

Electrical Specifications:	41J Series	42J Series	43J Series
Resistance Tolerance	±5%	±5%	±5%
Power Rating Ambient Temperature	1W @ 25°C	2W @ 25°C	3W @ 25°C
Temperature Coefficient of Resistance	Under 1Ω — ±90ppm/°C 1Ω ~ 9.99Ω — ±50ppm/°C 10Ω and over — ±20ppm/°C		
Dielectric Withstanding Voltage	250VAC	500VAC	500VAC
Short Time Overload	5 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds

Electrical Specifications:	45J Series	40J Series
Resistance Tolerance	±5%	±5%
Power Rating Ambient Temperature	5W @ 25°C	10W @ 25°C
Temperature Coefficient of Resistance	Under 1Ω — ±90ppm/°C 1Ω ~ 9.99Ω — ±50ppm/°C 10Ω and over — ±20ppm/°C	
Dielectric Withstanding Voltage	500VAC	500VAC
Short Time Overload	10 times rated wattage for 5 seconds	10 times rated wattage for 5 seconds

Resistance Range (Ω)	Digi-Key Part No.*	Price Each 1	25	100	250
40F Series					
.13 ~ .75	41F(Code)-ND	2.17	1.92	1.67	1.41
7.5	41F7R5-ND	2.10	1.86	1.61	1.36
25 ~ 47	41F(Code)-ND	2.13	1.81	1.60	1.39
125 ~ 300	41F(Code)-ND	2.03	1.80	1.56	1.32
700	41F700-ND	1.74	1.55	1.44	1.32
1.5K	41F1K5-ND	2.56	2.26	1.96	1.66
2.5K ~ 2.7K	41F(Code)-ND	2.74	2.38	2.24	2.16
33 ~ 82	43F(Code)-ND	1.09	.97	.83	.71
470 ~ 900	43F(Code)-ND	.97	.86	.76	.64
3.5K ~ 4.0K	43F(Code)-ND	1.79	1.59	1.38	1.17
5.0K ~ 6.8K	43F(Code)-ND	2.17	1.92	1.67	1.41
.10 ~ .75	45F(Code)-ND	2.18	1.85	1.64	1.42
15 ~ 47	45F(Code)-ND	1.14	1.01	.87	.74
470 ~ 800	45F(Code)-ND	1.09	.97	.83	.71
1.8K ~ 2.7K	45F(Code)-ND	1.23	1.10	.96	.81
3.5K ~ 6.0K	45F(Code)-ND	1.45	1.29	1.11	.94
8.0K ~ 8.2K	45F(Code)-ND	1.90	1.68	1.45	1.23
12.5K	4512K5F-ND	2.03	1.80	1.56	1.32

Resistance Range (Ω)	Digi-Key Part No.*	Price Each 1	25	100	250
40F Series — RoHS Compliant					
.10 ~ .75	41F(Code)E-ND	2.54	2.17	1.92	1.67
1.0 ~ 5.0	41F(Code)E-ND	2.46	2.10	1.86	1.60
10 ~ 25, 39, 40, 50, 68	41F(Code)E-ND	2.13	1.81	1.60	1.39
100, 120, 150 ~ 270, 330, 390 ~ 400	41F(Code)E-ND	2.38	2.03	1.80	1.56
500, 820, 900	41F(Code)E-ND	2.63	2.23	1.98	1.72
1.0K, 1.2K, 1.5K	41F(Code)E-ND	3.02	2.57	2.26	1.96
2.0K, 2.2K, 3.0K	41F(Code)E-ND	3.61	3.07	2.71	2.35
.10 ~ .75	43F(Code)E-ND	1.96	1.68	1.48	1.27
10, 15 ~ 82	43F(Code)E-ND	1.27	1.09	.97	.83
100 ~ 220, 250, 270, 330 ~ 390, 470 ~ 680, 750, 800, 900	43F(Code)E-ND	1.14	.98	.86	.75
1.0K ~ 1.2K, 1.5K	43F(Code)E-ND	1.36	1.15	1.02	.88
2.0K, 2.5K, 2.7K	43F(Code)E-ND	1.76	1.49	1.33	1.15
3.0K, 3.9K, 4.0K	43F(Code)E-ND	2.12	1.80	1.59	1.38
5.0K, 6.0K, 6.8K	43F(Code)E-ND	2.42	2.07	1.82	1.59
7.5K, 8.0K, 10.0K	43F(Code)E-ND	2.63	2.23	1.98	1.72
.10 ~ .75	45F(Code)E-ND	2.18	1.85	1.64	1.42
1.0 ~ 7.5	45F(Code)E-ND	1.51	1.28	1.14	.99
10 ~ 82	45F(Code)E-ND	1.36	1.15	1.02	.88
100, 120, 150, 200 ~ 220, 250 ~ 330, 400, 470, 500, 600, 680, 750, 800	45F(Code)E-ND	1.27	1.09	.97	.83
1.0K ~ 1.2K, 1.5K, 2.0K, 2.5K, 2.7K	45F(Code)E-ND	1.46	1.24	1.10	.96
3.5K, 5.0K, 6.0K, 6.8K	45F(Code)E-ND	1.69	1.44	1.27	1.10
10.0K, 12.5K, 15.0K	45F(Code)E-ND	2.37	2.02	1.80	1.55
20.0K, 25.0K		2.96	2.52	2.22	1.92
40J Series — RoHS Compliant					
.20, .50	41J(Code)E-ND	2.20	1.87	1.65	1.43
1.0, 100	41J(Code)E-ND	2.09	1.78	1.57	1.36
10, 15, 40, 68	41J(Code)E-ND	2.00	1.71	1.51	1.31
1.0K	41J(Code)E-ND	2.71	2.30	2.05	1.77
3.0K	41J(Code)E-ND	3.09	2.63	2.32	2.01
.10, .15, .20, .30 .50, .75	42J(Code)E-ND	2.20	1.87	1.65	1.43
1.0, 1.5, 2.0, 3.0 4.0, 5.0, 7.5	42J(Code)E-ND	1.36	1.15	1.02	.88
10, 15, 20, 22, 25, 33, 47 50, 56, 75, 82	42J(Code)E-ND	1.04	.89	.79	.67
100, 120, 125, 180, 200, 220, 250	42J(Code)E-ND	1.02	.87	.77	.66
500, 680	42J(Code)E-ND	1.40	1.19	1.06	.91
1.0K, 3.0K	42J(Code)E-ND	1.86	1.58	1.41	1.21
.10, .15, .20 .30, .50, .75	43J(Code)E-ND	1.70	1.45	1.27	1.11
1.0 ~ 7.5, 1.0K	43J(Code)E-ND	1.14	.98	.85	.74
10, 15, 20 ~ 25 33, 47 ~ 56, 75 ~ 82	43J(Code)E-ND	1.02	.87	.77	.66
100, 120, 125, 180, 200, 220, 250, 500, 680	43J(Code)E-ND	.96	.81	.72	.62
3.0K	43J3K0E-ND	1.87	1.59	1.41	1.22
5.0K, 6.8K, 8K	43J(Code)E-ND	2.00	1.71	1.51	1.31
10.0K	43J10KE-ND	2.09	1.78	1.57	1.36
.10, .20, .50, .75	45J(Code)E-ND	1.89	1.61	1.43	1.23
1.0, 2.0, 4.0, 5.0	45J(Code)E-ND	1.35	1.14	1.02	.88
10 ~ 15 20 ~ 30, 40 ~ 56 100, 200, 330, 470	45J(Code)E-ND	1.08	.92	.82	.71
680 1.0K, 1.5K	45J(Code)E-ND	1.27	1.09	.97	.83
5.0K, 6.8K	45J(Code)E-ND	1.57	1.35	1.18	1.03
.10, .20, .50, .75	40J(Code)E-ND	2.36	2.01	1.79	1.53
1.0, 2.0, 4.0, 5.0	40J(Code)E-ND	1.88	1.60	1.42	1.22
10, 12, 15, 20, 25, 27, 30, 40, 50, 56, 100, 200, 330, 470, 680	40J(Code)E-ND	1.58	1.34	1.18	1.02
1.0K, 1.5K,	40J(Code)E-ND	1.70	1.44	1.27	1.10
5.0K, 6.8K	40J(Code)E-ND	1.96	1.68	1.48	1.27

Vitreous Enamel Conformal Wirewound Resistors

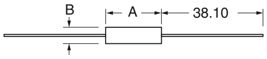

Resistor Series	Maximum Length A - mm	Maximum Diameter B (mm)	Lead Diameter (mm)
23J	12.70	5.59	.81
25J	25.40	7.01	.81
20J	46.84	10.01	.81

Electrical Specifications:	23J Series	25J Series	20J Series
Resistance Tolerance	±5%	±5%	±5%
Power Rating	3W	5W	10W
Dielectric Withstanding Voltage	1000V	1000V	1000V
Short Time Overload Rated wattage for 5 seconds	5 times	10 times	10 times

Resistance Range (Ω)	Digi-Key Part No.*	Price Each 1	50	100	250
2.0	23J2R0-ND	1.20	1.07	.90	.77
75	23J75R-ND	1.04	.92	.80	.68
225 ~ 270	23J(Code)-ND	.94	.84	.72	.62
600 ~ 800	23J(Code)-ND	1.03	.91	.79	.67
1.25K ~ 4.5K	23J(Code)-ND	2.18	1.19	1.15	1.07
6.8K ~ 7.0K	23J(Code)-ND	1.81	1.61	1.39	1.18
7.5K ~ 10.0K	23J(Code)-ND	2.15	1.90	1.64	1.39
.20 ~ .50	25J(Code)-ND	1.47	1.31	1.12	.96
18 ~ 82	25J(Code)-ND	1.35	1.18	1.02	.87
400 ~ 470	25J(Code)-ND	1.14	1.00	.88	.73
700 ~ 900	25J(Code)-ND	1.29	1.15	1.00	.85
1.1K ~ 2.7K	25J(Code)-ND	1.55	1.37	1.19	1.00
7.0K ~ 8.5K	25J(Code)-ND	1.94	1.60	1.47	1.37
11.0K ~ 13.0K	25J(Code)-ND	2.53	2.17	1.91	1.66
16.0K ~ 22.5K	25J(Code)-ND	2.17	1.92	1.67	1.41
.20 ~ .75	20J(Code)-ND	1.83	1.62	1.41	1.18
47 ~ 50	20J(Code)-ND	1.67	1.48	1.29	1.10
220 ~ 820	20J(Code)-ND	1.51	1.33	1.16	.98
1.25K ~ 2.2K	20J(Code)-ND	1.81	1.61	1.39	1.18
3.9K	20J3K9-ND	2.06	1.82	1.58	1.34
6.0K ~ 8.0K	20J(Code)-ND	2.76	2.35	2.09	1.81
11.0K ~ 18.0K	20J(Code)-ND	3.16	2.69	2.38	2.06
RoHS Compliant					
.10, .15 ~ .33	23J(Code)E-ND	2.01	1.71	1.51	1.31
.50 ~ 7.5	23J(Code)E-ND	1.41	1.20	1.07	.93
10 ~ 82	23J(Code)E-ND	1.21	1.05	.92	.80
100 ~ 400	23J(Code)E-ND	1.11	.95	.84	.72
470 ~ 560 680 ~ 750, 820	23J(Code)E-ND	1.22	1.04	.91	.79
1.0K, 1.2K, 1.5K, 2.0K, 2.2K, 2.5K ~ 3.9K, 4.7K	23J(Code)E-ND	1.65	1.40	1.24	1.07
5.0K ~ 6.8K	23J(Code)E-ND	2.13	1.81	1.61	1.39
8.0K, 10.0K	23J(Code)E-ND	2.48	2.12	1.87	1.62
.10, .15 ~ .75	25J(Code)E-ND	1.74	1.48	1.31	1.13
1.0 ~ 7.5	25J(Code)E-ND	1.65	1.40	1.24	1.07
10 ~ 33, 40 ~ 50, 68 ~ 82	25J(Code)E-ND	1.58	1.34	1.18	1.03
100 ~ 150, 200 ~ 220, 250 ~ 470	25J(Code)E-ND	1.34	1.14	1.00	.88
500 ~ 680, 750, 800, 900	25J(Code)E-ND	1.52	1.29	1.14	.99
1.0K, 1.2K, 1.5K, 18 ~ 2.2K, 2.5K, 3.0K ~ 3.5K, 4.0K ~ 4.7K	25J(Code)E-ND	1.82	1.55	1.37	1.19
5.0K ~ 7.0K, 8.0K, 8.2K, 9.0K	25J(Code)E-ND	2.28	1.95	1.72	1.49
10.0K, 12.0K, 15.0K	25J(Code)E-ND	2.52	2.16	1.89	1.65
20.0K, 22.0K, 25.0K	25J(Code)E-ND	3.01	2.56	2.26	1.96
.10 ~ .13, .20, .25, .50	20J(Code)E-ND	2.15	1.83	1.62	1.40
1.0 ~ 7.5	20J(Code)E-ND	2.09	1.78	1.57	1.36
10, 15 ~ 35, 40, 50 ~ 82	20J(Code)E-ND	1.97	1.67	1.48	1.28
100 ~ 220, 250 ~ 330, 390 ~ 500, 680, 750	20J(Code)E-ND	1.78	1.51	1.34	1.16
1.0K, 1.2K ~ 1.75K, 2.0K, 2.2K, 2.5K	20J(Code)E-ND	2.13	1.81	1.60	1.39
3.0K, 3.3K, 3.9K, 4.7K	20J(Code)E-ND	2.43	2.07	1.83	1.59
5.0K, 6.0K, 6.8K, 8.0K, 8.2K, 9.0K	20J(Code)E-ND	2.78	2.36	2.10	1.82
10.0K, 15.0K, 20.0K, 22.0K	20J(Code)E-ND	3.16	2.70	2.37	2.06
25.0K	20J25KE-ND	3.57	3.04	2.68	2.32

RESISTANCE VALUE CHART (for Silicone and Vitreous Wirewound Resistors)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R10)	3.0 (3R0)	30 (30R)	120 (120)	390 (390)	900 (900)	2.7K (2K7)	7.0K (7K0)▲	16.0K (16K)▲
.13 (R13)	4.0 (4R0)	33 (33R)	125 (125)	400 (400)	1.0K (1K0)	3.0K (3K0)	7.5K (7K5)	17.5K (17K5)▲
.15 (R15)	5.0 (5R0)	35 (35R)	150 (150)	450 (450)§▲	1.1K (1K1)	3.3K (3K3)§▲	8.0K (8K0)	18.0K (18K)▲
.20 (R20)	7.5 (7R5)	39 (39R)	180 (180)	470 (470)	1.2K (1K2)	3.5K (3K5)	8.2K (8K2)	20.0K (20K)
.25 (R25)	10 (10R)	40 (40R)	200 (200)	500 (500)	1.25K (1K25)▲	3.9K (3K9)	8.5K (8K5)▲	22.0K (22K)▲
.30 (R30)	12 (12R)	47 (47R)	220 (220)	560 (560)	1.5K (1K5)	4.0K (4K0)	9.0K (9K0)▲	22.5K (22K5)▲
.33 (R33)	15 (15R)	50 (50R)	225 (225)§	600 (600)	1.75K (1K75)§▲	4.5K (4K5)§▲	10.0K (10K)	25.0K (25K)
.50 (R50)	18 (18R)	56 (56R)	250 (250)	680 (680)	1.8K (1K8)§◊	4.7K (4K7)§	11.0K (11K)▲	
.75 (R75)	20 (20R)	68 (68R)	270 (270)	700 (700)§	2.0K (2K0)	5.0K (5K0)	12.0K (12K)▲	
1.0 (1R0)	22 (22R)	75 (75R)	300 (300)	750 (750)	2.2K (2K2)	5.6K (5K6)	12.5K (12K5)	
1.5 (1R5)	25 (25R)	82 (82R)	330 (330)	800 (800)	2.25K (2K25)§▲	6.0K (6K0)	13.5K (13K5)▲	
2.0 (2R0)	27 (27R)	100 (100)	350 (350)	820 (820)	2.5K (2K5)	6.8K (6K8)	15.0K (15K)	

▲Value not available in Silicone-Ceramic Conformal § Not available in Silicone-Ceramic Conformal RoHS Compliant

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code) ◊ Not available in RoHS Compliant

OHMITE® WFH Series — Aluminum Housed Power Wirewound Resistors

RESISTANCE VALUE CHARTS

WFH90L( )K	WFH90L( )J	WFH160L( )K	WFH160L( )J	WFH230L( )J	WFH330L( )K	WFH330L( )J
Value (Code)	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**
4.7 (4R7)	25 (25R)	.47 (R47)	27 (27R)	27 (27R)	1.0 (1R0)	27 (27R)
10 (10R)	50 (50R)	1.0 (1R0)	50 (50R)	50 (50R)	2.0 (2R0)	50 (50R)
	100 (100)	2.0 (2R0)	75 (75R)	75 (75R)	10 (10R)	75 (75R)
	470 (470)	10 (10R)	100 (100)	100 (100)		100 (100)
	750 (750)		150 (150)	150 (150)		150 (150)
	1.0K (1K0)		250 (250)	250 (250)		250 (250)
	2.7K (2K7)		1.0K (1K0)	1.0K (1K0)		1.0K (1K0)
	5.0K (5K0)		5.0K (5K0)	1.5K (1K5)		5.0K (5K0)
			10K (10K)	2.5K (2K5)		10K (10K)

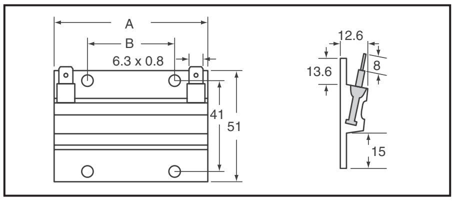

Features: • Ohmite's new flat core winding technology allows for wirewound heat sinkable resistors affording a very low profile and superior thermal transfer characteristics when compared to conventional aluminum housed wirewound resistors. • Close mounting of heat sensitive components is possible due to only a slight rise of the temperature on the aluminum profile. • No heat sink compound is required because of large mounting surface.

Specifications: • Dielectric Strength: 2500VAC peak • Working Voltage: 1200VAC • Insulation: Silicone Rubber & Mica. The Silicone is UL-recognized (UL 94 HB) to a working temperature of 220°C. Temperatures of up to 300°C can be endured for shorter periods, however this may cause an expansion of the silicone rubber with a possibility of reducing the dielectric strength.
Note: *Please see data sheet for heat sink recommendations.*

Resistance Range (Ω)	Wattage	Tolerance %	Dimensions - mm		Digi-Key Part No.*	Price Each		
			A	B		1	25	100
25 ~ 1.0K	90	±5	70	39.7	WFH90L(Code)J-ND	34.10	27.28	23.19
2.7K ~ 5.0K	90	±5	70	39.7	WFH90L(Code)J-ND	34.10	27.28	23.19
.47 ~ 10	160	±10	140	80	WFH160L(Code)K-ND	37.68	30.14	25.62
27 ~ 1.0K	160	±5	140	80	WFH160L(Code)J-ND	35.90	28.70	24.41
5.0K ~ 10K	160	±5	140	80	WFH160L(Code)J-ND	37.68	30.14	25.62
50 ~ 1.0K	230	±5	210	2x 80	WFH230L(Code)J-ND	46.35	37.10	31.53
1.5K ~ 2.5K	230	±5	210	2x 80	WFH230L(Code)J-ND	48.68	38.93	33.10
27 ~ 1.0K	330	±5	280	2x 100	WFH330L(Code)J-ND	55.43	44.33	37.68
5.0K ~ 10K	330	±5	280	2x 100	WFH330L(Code)J-ND	58.05	46.46	39.48
RoHS Compliant								
4.7 ~ 10	90	±10	70	39.7	WFH90L(Code)KE-ND	35.78	28.61	24.33
25 ~ 100	90	±5	70	39.7	WFH90L(Code)JE-ND	34.10	27.28	23.19
1.0 ~ 10	160	±10	140	80	WFH160L(Code)KE-ND	37.68	30.14	25.62
50 ~ 150	160	±5	140	80	WFH160L(Code)JE-ND	35.90	28.70	24.42
27 ~ 250	230	±5	210	2x 80	WFH230L(Code)JE-ND	46.35	37.08	31.52
1.0 ~ 2.0	330	±10	280	2x 100	WFH330L(Code)KE-ND	58.05	46.44	39.48
27 ~ 1.0K	330	±5	280	2x 100	WFH330L(Code)JE-ND	55.45	44.36	37.71
5.0K	330	±5	280	2x 100	WFH330L(Code)JE-ND	58.05	46.44	39.48

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

89 Series — Aluminum Housed Axial Terminal Wirewound Resistors

Watts	Maximum Dimensions - mm									
	A	B	C	D	E	F	G	H	I	J
5	11.40	12.57	16.03	6.30	16.79	8.51	2.49	1.40	8.33	30.15
10	14.40	16.00	19.84	8.00	20.70	10.29	2.49	2.31	9.50	36.50
25	18.39	19.96	27.76	10.01	27.81	14.25	3.30	2.31	12.70	50.80
50	39.83	21.56	50.77	10.79	29.34	15.88	3.30	2.31	12.70	72.21

The 89 Series are high performance axial terminal resistors. They are better suited to withstand vibration, shock and harsh environmental conditions than standard axial resistors. The 89 Series are aluminum housed to maintain high stability during operation and to permit secure mounting to chassis surfaces. The housing also provides heat-sinking capabilities. The 89 Series resistors meet or exceed MIL-R-18546 specifications.

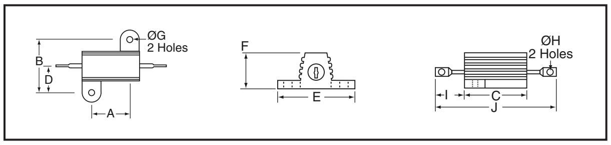

Electrical Specifications:

	5 Watt	10 Watt	25 Watt	50 Watt
Resistance Tolerance	±1%	±1%	±1%	±1%
Proper Heat Sink (mm) *	101.60 x 152.40 x 50.80 x 1.02 aluminum chassis		127.00 x 177.80 x 50.80 x 1.02 aluminum chassis	304.80 x 304.80 x 1.50 aluminum panel
Maximum Operating Voltage	210	320	520	1170
Overload	5 times rated power for 5 seconds			
Temperature Coefficient	Under 1Ω — ±90 ppm/°C 1Ω ~ 9.99Ω — ±50 ppm/°C 10Ω and over — ±20 ppm/°C			
Dielectric Withstanding Voltage	1000VAC	1000VAC	2500VAC	2500VAC

* Power rating is based on chassis mounting area and temperature stability.

RESISTANCE VALUE CHART

805F Series		810F Series		825F Series		850F Series	
Value (Code)	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**
1.0 (1R0)	75 (75R)	1.0 (1R0)	250 (250)	.10 (R10)	100 (100)	.10 (R10)	150 (150)
2.0 (2R0)	100 (100)	5.0 (5R0)	500 (500)	1.0 (1R0)	150 (150)	1.0 (1R0)	500 (500)
5.0 (5R0)	150 (150)	10 (10R)	5.0K (5K0)	2.0 (2R0)	250 (250)	2.0 (2R0)	750 (750)
7.5 (7R5)	250 (250)	15 (15R)	10.0K (10K)	5.0 (5R0)	500 (500)	5.0 (5R0)	1.0K (1K0)
10 (10R)	500 (500)	20 (20R)	25.0K (25K)◊	7.5 (7R5)	750 (750)	10 (10R)	2.5K (2K5)
15 (15R)	1.0K (1K0)◊	50 (50R)		10 (10R)	1.0K (1K0)	15 (15R)	5.0K (5K0)
25 (25R)	5.0K (5K0)	75 (75R)		20 (20R)	2.5K (2K5)	25 (25R)	10.0K (10K)
40 (40R)		100 (100)		25 (25R)	10.0K (10K)	40 (40R)	25.0K (25K)
50 (50R)				50 (50R)	25.0K (25K)	50 (50R)	100K (100K)
				75 (75R)		75 (75R)	
						100 (100)	

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each			
			1	10	50	100
10 ~ 75	10	810F(Code)-ND	3.78	3.38	3.17	2.52
25.0K	50	850F25K-ND	7.57	6.73	6.31	5.05
RoHS Compliant						
1.0 ~ 25	5	805F(Code)E-ND	4.00	3.62	3.21	3.01
40 ~ 500	5	805F(Code)E-ND	4.39	3.95	3.51	3.30
5.0K	5	805F5K0E-ND	6.08	5.48	4.87	4.57
1.0 ~ 500	10	810F(Code)E-ND	4.20	3.78	3.38	3.17
10.0K	10	810F10KE-ND	5.99	5.39	4.80	4.49
.10	25	825FR10E-ND	5.99	5.39	4.80	4.49
1.0 ~ 75	25	825F(Code)E-ND	5.40	4.86	4.33	4.07
100 ~ 750	25	825F(Code)E-ND	5.57	5.02	4.46	4.18
1.0K ~ 2.5K	25	825F(Code)E-ND	6.25	5.62	5.01	4.70
10.0K	25	825F10KE-ND	6.88	6.20	5.51	5.15
25.0K	25	825F25KE-ND	8.59	7.73	6.88	6.45
.10	50	850FR10E-ND	7.59	6.84	6.07	5.70
1.0 ~ 750	50	850F(Code)E-ND	6.25	5.62	5.01	4.70
1.0K ~ 5.0K	50	850F(Code)E-ND	7.08	6.37	5.66	5.32
10.0K	50	850F10KE-ND	7.47	6.74	5.99	5.62
25.0K	50	850F25KE-ND	8.41	7.59	6.73	6.31
100K	50	850F100KE-ND	11.41	10.28	9.13	8.57

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

TFS Series — Surge Capable Thick Film Non-Inductive Resistors

Features: • Ideal for medical surge protection applications • Ideal to replace standard carbon composition resistors
Specifications: • Material: Resistive Element: Thick Film • Encapsulation: Screen Printed Glass • Electrical: Temperature Coefficient: 100ppm/°C • Tolerance: 5% • Operating Temperature: -55°C ~ 200°C
Note: • For pulses over 100ms, refer to the momentary overload specification on the product data sheet. • Energy ratings are based on single pulses (at least 1 minute between pulses). • For multiple pulse applications the energy pulse rating should be reduced and the average power should not exceed the nominal power rating of the selected model.

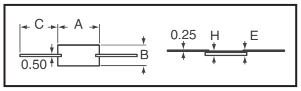

TFSB Series
Value (Code)
100 (100R)
1.0K (1K00)
2.7K (2K70)

TFSF Series
Value (Code)
100 (100R)
100K (100K)

Resistance Range (Ω)	Power (Watt)	Energy (Joules)	Voltage (KV)	Dimensions - mm					Digi-Key Part No.*	Price Each		
				A	B	C	H	E		1	10	50
100 ~ 100K	0.5	9	3.5	11	5.5	10	0.7	1.1	TFSB(Code)JE-ND	4.13	3.63	2.97
100 ~ 100K	2.0	55	11	26	10.5	10	0.9	1.3	TFSF(Code)JE-ND	6.98	6.14	5.03

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

OHMITE® Slim-Mox Series — Precision Thick Film Planar Resistors

Features: • High dielectric and low outgassing epoxy coating • Low resistor noise • Non-inductive
Applications • HV power supplies • Medical instrumentation • Current pulse limiters • Ionization chambers
Material: • Resistor: Thick film on Alumina
Electrical: • Operating Temperature: -55°C ~ 110°C

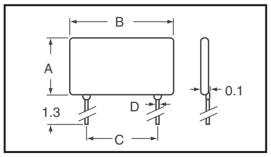

RESISTANCE VALUE CHART
SM204F

Value	Value	Value
10M	100M	1000M

RESISTANCE VALUE CHART
SM104J

Value	Value	Value
10M	100M	1000M

RESISTANCE VALUE CHART
SM102J and SM204J

Value	Value	Value	Value
1K	20K	250K	2.5M
2.5K	25K	500K	5M
5K	50K	750K	10M
7.5K	75K	1M	25M
10K	100K	1.25M	50M
12.5K	125K	1.5M	100M
15K	150K	1.75M	1000M
17.5K	200K	2M	

RESISTANCE VALUE CHART
SM102F and SM104F

Value	Value	Value	Value
200K	4M	50M	1000M
300K	5M	100M	2000M
400K	10M	200M	3000M
500K	20M	300M	4000M
2M	30M	400M	5000M
3M	40M	500M	

RESISTANCE VALUE CHART
SM108F

Value	Value	Value	Value
200K	3M	40M	500M
300K	4M	50M	2000M
400K	5M	200M	3000M
500K	20M	300M	4000M
2M	30M	400M	5000M

Series	Dimensions - Inch (mm) A Maximum	B Maximum	C ±.025	D ±.002
SLIM-MOX102	0.34 (8.64)	0.58 (14.73)	0.40 (10.16)	0.032 (.813)
SLIM-MOX104	0.34 (8.64)	1.08 (27.43)	0.90 (22.86)	0.032 (.813)
SLIM-MOX108	0.34 (8.64)	2.08 (52.83)	1.90 (48.26)	0.032 (.813)
SLIM-MOX204	0.59 (14.99)	1.08 (27.43)	0.90 (22.86)	0.032 (.813)

Resistance Range (Ω)	Tolerance	Wattage	Digi-Key Part No.*	Price Each 1	10	50	100
1K ~ 1000M	±5%	1	SM102J-(Value)-ND	3.83	3.37	2.76	1.74
10M, 100M, 1000M	±1%	1	SM102F-(Value)-ND	3.98	3.45	2.88	1.87
200K ~ 5000M	±1%	1	SM102F-(Value)-ND	3.98	3.50	2.87	1.81
200K ~ 5000M	±1%	1.5	SM104F-(Value)-ND	4.92	4.03	2.54	1.87
200K ~ 5000M	±1%	2.5	SM108F-(Value)-ND	4.76	3.97	3.31	2.79
1K ~ 1000M	±5%	2	SM204J-(Value)-ND	5.89	3.93	3.14	2.36
100M ~ 1000M	±1%	2	SM204F-(Value)-ND	4.76	3.97	3.31	2.79
RoHS Compliant							
100M	±5%	1.5	SM102JE-100M-ND	4.37	3.86	3.16	1.99
10M, 100M, 1000M	±5%	1.5	SM104JE-(Value)-ND	3.94	3.47	2.89	1.73
10M, 100M, 1000M	±1%	1.5	SM104FE-(Value)-ND	4.46	3.90	3.25	2.11
200K ~ 5M, 20M ~ 50M, 200M ~ 500M 2000M ~ 5000M	±1%	1.5	SM104FE-(Value)-ND	4.69	4.13	3.38	2.13
200K ~ 5000M	±1%	2.5	SM108FE-(Value)-ND	5.59	4.92	4.03	2.54
10K, 20K, 50K, 150K ~ 200K 500K ~ 1M, 1.5M, 2M, 5M, 25M ~ 100M	±5%	2	SM204JE-(Value)-ND	5.74	5.36	4.59	3.80
10M, 100M, 1000M	±1%	2	SM204FE-(Value)-ND	5.59	5.22	4.47	3.81

* For complete part number, substitute the corresponding value from the Resistance Value Chart.

Ceramic Housed Radial Terminal Power Resistors

The TWW/TWM Series radial terminal power resistors offer significant board space savings over axial products. Generated heat is also kept away from the circuit board. They are recommended for commercial applications requiring low cost.

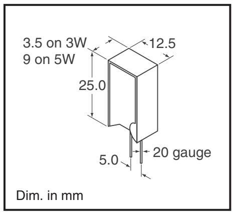

Series	Power Rating	Voltage	Element
TWW3	3W	250	Wire
TWW5	5W	350	Wire
TWM3	3W	250	Metal Oxide
TWM5	5W	350	Metal Oxide

Electrical Specifications:

	TWW Series	TWM Series
Resistance Tolerance	±5% standard	±5% standard
Temperature Coefficient	.1Ω ~ 20Ω — ±400ppm/°C 20Ω ~ 47Ω — ±350ppm/°C	43Ω ~ 10KΩ — ±350ppm/°C
Dielectric Withstanding Voltage	1000VAC	1000VAC
Short Time Overload	10 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R10)	.56 (R56)	3.3 (3R3)	15 (15R)	68 (68R)	390 (390)	2.0K (2K0)	7.5K (7K5)
.15 (R15)	.68 (R68)	3.9 (3R9)	20 (20R)	75 (75R)	430 (430)	2.7K (2K7)	8.2K (8K2)
.20 (R20)	.75(R75)	4.3 (4R3)	27 (27R)	82 (82R)	470 (470)	3.0K (3K0)	10K (10K)
.27 (R27)	.82 (R82)	4.7 (4R7)	30 (30R)	100 (100)	560 (560)	3.3K (3K3)	
.30 (R30)	1.0 (1R0)	5.6 (5R6)	33 (33R)	150 (150)	680 (680)	3.9K (3K9)	
.33 (R33)	1.5 (1R5)	6.8 (6R8)	39 (39R)	200 (200)	750 (750)	4.3K (4K3)	
.39 (R39)	2.0 (2R0)	7.5 (7R5)	43 (43R)	270 (270)	820 (820)	4.7K (4K7)	
.43 (R43)	2.7 (2R7)	8.2 (8R2)	47 (47R)	300 (300)	1.0K (1K0)	5.6K (5K6)	
.47 (R47)	3.0 (3R0)	10 (10R)	56 (56R)	330 (330)	1.5K (1K5)	6.8K (6K8)	

Resistance Range (Ω)	Digi-Key Part No.*	Price Each 1	100	300
.15 ~ 39	TWW3J(Code)-ND	.36	.30	.27
.39 ~ 43	TWW5J(Code)-ND	.36	.30	.27
43 ~ 10K	TWM3J(Code)-ND	.36	.30	.27
82 ~ 10K	TWM5J(Code)-ND	.36	.30	.27
RoHS Compliant				
.10 ~ 39	TWW3J(Code)E-ND	.47	.43	.36
.10 ~ 47	TWW5J(Code)E-ND	.51	.47	.39
43 ~ 10K	TWM3J(Code)E-ND	.47	.43	.36
56 ~ 10K	TWM5J(Code)E-ND	.51	.47	.39

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

AW, AX, AY Series — Ceramic Composition Resistors

The “A” Series of non-inductive, ceramic composite resistors are designed for a variety of applications where high energy handling capabilities are crucial. Designed for use in motor drives, UPS and other power conversion systems, these resistors are ideal for any application which is subject to surges, high peak power, impulse energy or inrush current limiting.

Material Specifications: • Resistance Element: Bulk Ceramic • Terminals: Solder coated radial leads (axial lead version available upon request) • Coating: UL94V0, solvent resistant epoxy

Electrical Specifications: • Tolerance: ±10% Standard • Derating: Derates linearly from 100% @ 50°C ~ 0% @ 150°C • Temperature Rise: 100°C @ 100% rated power, 50°C ambient

RESISTANCE VALUE CHART

AW Series	AX Series	AY Series	
Value (Code)	**Value (Code)**	**Value (Code)**	**Value (Code)**
6.8 (68G)◊	1.0 (10G)	2.2 (22G)	39 (390)◊
15 (150)	3.3 (33G)◊	3.3 (33G)	47 (470)
22 (220)	22 (220)◊	4.7 (47G)	68 (680)◊
47 (470)◊	100 (101)	10 (100)	100 (101)
100 (101)		22 (220)	

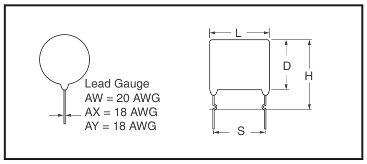

Resistance Range (Ω)	Wattage	Dimensions - Inch (mm) L - maximum	D - maximum	H - maximum	S - normal	Digi-Key Part No.*	Price Each 1	50	250
6.8 - 560	2.5	.78 (20)	.51 (13)	.87 (22)	.69 (17.5)	AW(Code)K-ND	10.53	10.02	9.49
3.3 - 100	3.5	.59 (15)	.83 (21)	1.22 (31)	.49 (12.5)	AX(Code)K-ND	11.53	10.95	10.38
2.2 - 100	4.5	.98 (25)	.83 (21)	1.22 (31)	.89 (22.5)	AY(Code)K-ND	12.15	11.54	10.94
RoHS Compliant									
15 - 100	2.5	.78 (20)	.51 (13)	.87 (22)	.69 (17.5)	AW(Code)KE-ND	10.53	10.01	9.49
1.0 - 100	3.5	.59 (15)	.83 (21)	1.22 (31)	.49 (12.5)	AX(Code)KE-ND	11.53	10.95	10.38
2.2 - 100	4.5	.98 (25)	.83 (21)	1.22 (31)	.89 (22.5)	AY(Code)KE-ND	12.15	11.55	10.94

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

Metal Oxide / Epoxy Coated Resistors —
“Mini-Mox” Precision Thick Film Axial Resistors

Applications: • Avionics • Medical Electronics • High Gain Feedback Applications • Current Pulse Limiters • Vacuum and Space Application
Material: • Resistor: Metal Oxide • Coating: Epoxy • Core: Alumina • Terminals: Solder-Coated Axial Lead
Electrical: • Operating Temperature: -55°C ~ 110°C, RoHS (MOX-200 “E” MOX-300 “E”) -55°C ~ 110°C • Dielectric Withstanding Voltage: 750 Volts

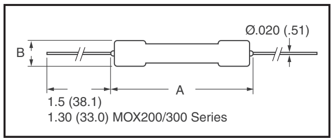

Series	Voltage Rating	Dimensions — Inches (mm) A ±.015”	B Maximum
MOX-200	500V	0.300 (7.62)	0.105 (2.67)
MOX-300	1000V	0.435 (11.05)	0.145 (3.68)
MOX-400-23	2500V	0.580 (14.78)	0.165 (4.19)
MOX-750-23	5000V	0.880 (22.35)	0.165 (4.19)
MOX1125-23	7500V	1.270 (32.26)	0.165 (4.19)

Resistance Value (Ω)	Tolerance	Wattage	Digi-Key Part No.*	Price Each 1	10	50	100
10M, 100M	±5%	1.0	MOX750J-(Value)-ND	5.18	3.47	2.51	1.97
1,000M	±5%	1.5	MOX1125J-(Value)-ND	6.86	3.93	2.93	2.63
RoHS Compliant							
10M 100M 1,000M	±1%	.25	MOX200F-10ME-ND	2.51	2.18	1.74	1.15
			MOX200F-100ME-ND	4.76	4.13	2.58	1.94
			MOX200F-1000ME-ND	20.18	17.49	10.76	7.69
	±5%	.25	MOX200J-10ME-ND	1.88	1.63	1.39	.86
			MOX200J-100ME-ND	3.00	2.60	1.63	1.14
			MOX200J-1000ME-ND	6.04	5.24	3.22	2.81
	±1%	.50	MOX300F-10ME-ND	4.65	3.33	2.40	1.98
			MOX300F-100ME-ND	5.63	4.22	3.04	2.12
			MOX300F-1000ME-ND	21.19	12.26	9.34	7.83
	±5%	.50	MOX300J-10ME-ND	3.75	2.68	1.94	1.62
			MOX300J-100ME-ND	3.75	2.63	1.90	1.58
			MOX300J-1000ME-ND	6.34	3.72	2.80	2.36
	±1%	.75	MOX400F-(Value)E-ND	7.16	4.14	3.22	2.67
	±5%	.75	MOX400J-(Value)E-ND‡	4.69	2.91	2.19	1.72
	±1%	1.0	MOX750F-(Value)E-ND	8.33	4.82	3.81	3.57
	±5%	1.0	MOX750J-(Value)E-ND	5.81	3.55	2.57	2.03
	±1%	1.5	MOX1125F-(Value)E-ND†	8.93	4.65	3.92	3.38
	±5%	1.5	MOX1125J-(Value)E-ND‡	7.16	4.06	3.02	2.72

* For complete part number, substitute the corresponding Value from the Resistance Value column.
‡ Not available in 10M † Not available in 1,000M

High Voltage Resistors — "Super-Mox" Precision Thick Film Axial Resistors

High-voltage Super-Mox resistors have been developed to meet the precision temperature stability requirements of high-accuracy and high-voltage systems, combining proprietary non-inductive resistance system and design to achieve low temperature coefficient, low voltage coefficients, high stability and increased high operating voltages. Super-Mox low-TC precision high-voltage resistors are designed to meet the demanding requirements of high voltage power supplies, electron microscopes, X-ray systems, high resolution CRT displays and geophysical instruments.

Material Specifications: • Encapsulation: Silicone Conformal Coating • Terminal Material: Gold Plated • Core Material: Al2O3 (96%) • Resistor Material: Ruthenium Oxide

Electrical Specifications: • Operating Temperature: -55° ~ 225°C • Dielectric Strength: >1,000 Volt 25°C 75% relative humidity

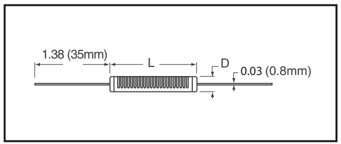

Series	Operating Voltage Maximum	Dimensions — Inches (mm) L	D
MOX910	15,000V	1.07 (27.00)	0.32 (8.00)
MOX920	21,000V	1.46 (37.00)	0.32 (8.00)
MOX930	30,000V	2.05 (52.00)	0.32 (8.00)
MOX940	45,000V	3.03 (77.00)	0.32 (8.00)
MOX950	60,000V	4.02 (102.00)	0.33 (8.30)
MOX960	72,000V	4.80 (122.00)	0.34 (8.50)
MOX970	90,000V	5.98 (152.00)	0.34 (8.50)

Resistance Value (Ω)	Tolerance	Wattage	Digi-Key Part No.	Price Each 1	10	20	100
1M	1%	3.8	MOX91021004FVE-ND	8.46	7.70	7.00	6.48
5M			MOX91025004FVE-ND	8.46	7.70	7.00	6.48
10M			MOX91021005FVE-ND	8.46	7.70	7.00	6.48
25M			MOX91022505FTE-ND	8.46	7.70	7.00	6.48
10M	1%	5	MOX92021005FVE-ND	12.04	9.79	8.91	8.25
50M			MOX92025005FVE-ND	12.04	9.79	8.91	8.25
100M			MOX92021006FVE-ND	12.04	9.79	8.91	8.25
1000M			MOX92021007FTE-ND	12.04	9.79	8.91	8.25
1M	1%	7.5	MOX93021004FVE-ND	14.50	11.79	10.72	9.93
5M			MOX93025004FVE-ND	14.50	11.79	10.72	9.93
10M			MOX93021005FVE-ND	14.50	11.79	10.72	9.93
25M			MOX93022505FTE-ND	13.18	11.98	10.89	10.10
10M	1%	10	MOX94021005FVE-ND	14.86	13.51	12.29	11.37
50M			MOX94025005FVE-ND	14.86	13.51	12.29	11.37
100M			MOX94021006FVE-ND	14.86	13.51	12.29	11.37
1000M			MOX94021007FTE-ND	14.86	13.51	12.29	11.37
1M	1%	13.5	MOX95021004FVE-ND	17.98	16.35	14.86	13.77
5M			MOX95025004FVE-ND	17.98	16.35	14.86	13.77
10M			MOX95022505FVE-ND	19.78	16.09	14.62	13.55
25M			MOX95022505FTE-ND	19.78	16.09	14.62	13.55
10M	1%	16	MOX96021005FVE-ND	22.98	18.69	16.99	15.74
50M			MOX96021005FVE-ND	22.98	18.69	16.99	15.74
100M			MOX96021006FVE-ND	20.56	18.69	16.99	15.74
1000M			MOX96021007FTE-ND	22.98	18.69	16.99	15.74
1M	1%	20	MOX97021004FVE-ND	26.58	24.17	21.97	20.36
5M			MOX97025004FVE-ND	26.58	24.17	21.97	20.36
10M			MOX97021005FVE-ND	29.24	23.78	21.62	20.03
25M			MOX97022505FTE-ND	29.24	23.78	21.62	20.03

Vitreous Enamel Power Resistors — 8 and 12 Watt

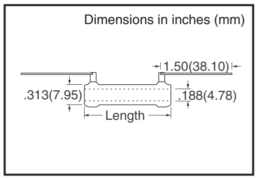

	B8J	B12J
Maximum Voltage	250	625
Overload	10 times rated wattage for 5 seconds	
Length	1.000" (25.40mm)	1.750" (44.45mm)

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.0 (2R0)	75 (75R)	900 (900)	4.5K (4K5)‡	20.0K (20K)
3.0 (3R0)	100 (100)	1.0K (1K0)	5.0K (5K0)	25.0K (25K)
5.0 (5R0)	125 (125)	1.2K (1K2)	6.0K (6K0)†	40.0K (40K)
7.5 (7R5)	150 (150)	1.25K (1K25)	7.0K (7K0)	50.0K (50K)
10 (10R)	200 (200)	1.5K (1K5)	7.5K (7K5)	
15 (15R)‡	250 (250)	2.0K (2K0)	8.0K (8K0)	
20 (20R)	300 (300)	2.5K (2K5)	9.0K (9K0)	
25 (25R)‡	400 (400)	3.0K (3K0)◊	10.0K (10K)	
35 (35R)	450 (450)	3.5K (3K5)	12.0K (12K)◊	
50 (50R)	500 (500)	4.0K (4K0)‡	15.0K (15K)	

◊ Not available in RoHS Compliant † Not available in 12 Watt ‡ Not available in 8 Watt RoHS Compliant

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	25	100	250
25 ~ 500	8	B8J(Code)-ND	3.69	3.28	2.88	—
600 ~ 1.5K		B8J(Code)-ND	3.42	3.04	2.67	—
2.0K ~ 9.0K		B8J(Code)-ND	3.47	3.10	2.71	—
3.0 ~ 7.5	12	B12J(Code)-ND	3.69	3.28	2.88	—
35 ~ 900		B12J(Code)-ND	3.25	2.90	2.54	—
1.0K ~ 1.5K		B12J(Code)-ND	3.55	3.17	2.77	—
2.0K ~ 4.0K		B12J(Code)-ND	3.64	3.23	2.84	—
4.5K ~ 9.0K		B12J(Code)-ND	3.81	3.39	2.98	—
50.0K		B12J50K-ND	5.11	4.54	3.98	—
RoHS Compliant						
7.5	8	B8J(Code)E-ND	3.26	2.94	2.61	2.29
20, 35		B8J(Code)E-ND	3.15	2.85	2.52	2.21
300		B8J(Code)E-ND	3.15	2.85	2.52	2.21
2.0K ~ 6.0K		B8J(Code)E-ND	2.98	2.70	2.39	2.08
10.0K		B8J10KE-ND	3.23	2.92	2.58	2.27
2.0 ~ 7.5	12	B12J(Code)E-ND	3.08	2.87	2.77	2.67
10 ~ 100, 150 ~ 250		B12J(Code)E-ND	2.78	2.50	2.23	1.95
500		B12J500E-ND	2.78	2.50	2.23	1.95
1.0K, 1.25K, 1.5K		B12J(Code)E-ND	3.03	2.73	2.43	2.13
2.0K ~ 3.5K		B12J(Code)E-ND	3.11	2.82	2.48	2.18
4.5K, 5.0K, 7.5K		B12J(Code)E-ND	3.26	2.94	2.61	2.29
10.0K, 15.0K		B12J(Code)E-ND	3.33	3.01	2.67	2.34
20.0K ~ 40.0K		B12J(Code)E-ND	3.48	3.13	2.79	2.44
50.0K		B12J50KE-ND	4.36	3.94	3.49	3.07

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Vitreous Enamel Power Resistors — 25, 50, 100, and 225 Watt

Type 210 — Adjustable with Tabs
D25K, D50K, D100K, D225K

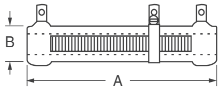

Type 270 — Fixed with Tabs
L25J, L50J, L100J, L225J

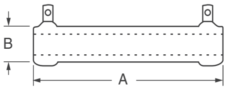

	L25J/ D25K	L50J/ D50K	L100J/ D100K	L225J/ D225K
Max. Voltage	625	1625	2845	4595
Overload	10 times rated wattage for 5 seconds			
DWV	1000VAC	1000VAC	1000VAC	3000VAC
Length A	2" (50.80mm)	4" (101.60mm)	6.5" (165.10mm)	10.5" (266.70mm)
Diameter B	.5625" (14.29mm)	.5625" (14.29mm)	.750" (19.05mm)	1.125" (28.58mm)

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	100 (100)	2.5K (2K5)
2.0 (2R0)	150 (150)	4.0K (4K0)
3.0 (3R0)	200 (200)	5.0K (5K0)
5.0 (5R0)	250 (250)	10.0K (10K)
10 (10R)	500 (500)	12.0K (12K)
25 (25R)	750 (750)	25.0K (25K)
50 (50R)	1.0K (1K0)	50.0K (50K)

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	25	50	100
3.0	25	L25J3R0-ND	6.16	5.08	—	4.35
12.0K	25	L25J12K-ND	7.44	6.13	—	5.26
25, 50, 100, 500	50	L50J(Code)-ND	9.97	8.48	—	6.99
Mounting Bracket 25/50W‡	—	9-100-ND		1.55/2	5.17/10	
1.0	225	L225J1R0-ND	33.41	29.70	—	—
RoHS Compliant						
2.0, 3.0	25	L25J(Code)E-ND	5.44	4.63	—	3.82
10, 25, 100, 500, 750	25	L25J(Code)E-ND	5.17	4.39	—	3.62
1.0K, 2.5K	25	L25J(Code)E-ND	5.43	4.62	—	3.80
4.0K, 5.0K	25	L25J(Code)E-ND	5.48	4.66	—	3.85
10.0K	25	L25J10KE-ND	6.58	5.60	—	4.61
25.0K	25	L25J25KE-ND	6.58	5.60	—	4.61
50.0K	25	L25J50KE-ND	7.08	6.02	—	4.96
1.0	25	D25K1R0E-ND	10.80	9.18	—	7.56
3.0, 5.0, 10, 25, 50, 250, 500	25	D25K(Code)E-ND	9.18	7.80	—	6.43
1.0	50	L50J1R0E-ND	8.14	6.92	—	5.70
2.0 ~ 5.0	50	L50J(Code)E-ND	7.64	6.49	—	5.35
10 ~ 100, 500	50	L50J(Code)E-ND	7.48	6.36	—	5.24
1.0K, 5.0K	50	L50J(Code)E-ND	7.42	6.31	—	5.19
1.0, 3.0	50	D50K(Code)E-ND	15.34	13.05	—	10.74
10, 25, 50	50	D50K(Code)E-ND	13.13	11.16	—	9.19
100, 500	50	D50K(Code)E-ND	13.13	11.16	—	9.19
1.0K	50	D50K1K0E-ND	13.73	11.66	—	9.61

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	25	50	100
Mounting Bracket 25/50W‡	—	9E-100-ND		1.55/2	5.17/10	
1.0, 2.0	100	L100J(Code)E-ND	11.21	9.53	—	8.41
5.0	100	L100J5R0E-ND	10.77	9.17	—	8.09
10, 50	100	L100J(Code)E-ND	10.22	8.69	—	7.67
100, 250	100	L100J(Code)E-ND	9.98	8.49	—	7.49
1.0K	100	L100J1K0E-ND	9.59	8.15	—	7.20
1.0	100	D100K(Code)E-ND	18.96	17.06	—	15.17
2.0,10	100	D100K(Code)E-ND	18.47	16.62	—	14.77
50, 100, 250	100	D100K(Code)E-ND	16.59	14.94	—	13.27
1.0K	100	D100K1K0E-ND	16.59	14.94	—	13.30
Mounting Bracket 100W‡	—	12-100E-ND		3.36/2	11.21/10	
3.0, 5.0	225	L225J(Code)E-ND	18.42	16.59	—	14.74
10, 50, 100	225	L225J(Code)E-ND	15.99	14.39	—	12.82
250, 500	225	L225J(Code)E-ND	15.25	13.74	—	12.20
1.0K	225	L225J1K0E-ND	14.74	13.27	—	11.79
1.0	225	D225K1R0E-ND	39.18	35.28	31.35	—
2.0, 3.0	225	D225K(Code)E-ND	33.23	29.92	26.59	—
5.0	225	D225K5R0E-ND	29.99	26.99	23.99	—
10, 25, 50	225	D225K(Code)E-ND	26.70	24.03	21.36	—
100, 250, 500, 1.0K	225	D225K(Code)E-ND	22.55	20.29	18.05	—
Mounting Bracket 225W‡	—	18E-100-ND		3.53/2	11.78/10	

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).
‡ Requires 2 brackets per resistor

OHMITE® 250 Series Vitreous Enamel Power Resistors — 30, 40 and 55 Watt

When limited space is a consideration, choose Ohmite's "thin" stackable 250 Type resistors.These oval-shaped ceramic-core resistors feature a low profile to permit installation in spaces with minimal height. They are also equipped with integral mounting brackets so they can be fastened to a chassis and stacked in locations with limited surface area.

Material:
- Coating: Lead free vitreous enamel
- Core: Ceramic
- Derating: Linearly from 100% @ 15°C ~ 0% @ 350°C

Electrical:
- Tolerance: ±5%
- Overload: 5 times rated wattage for 5 seconds
- Dielectric withstanding voltage: 1000 VAC (measured from lug to mounting bracket)

Series	F30	F40	F55
Maximum Voltage	281	655	1405
Dimension L	31.75	50.8	88.9
Dimension A	50.8	69.85	107.95

RESISTANCE VALUE CHART

30W Value (Code)	40W Value (Code)	55W Value (Code)
1.0 (1R0)	1.0 (1R0)	1.0 (1R0)
5.0 (5R0)	5.0 (5R0)	5.0 (5R0)
10 (10R)	10 (10R)	10 (10R)
15 (15R)	25 (25R)	25 (25R0)
25 (25R)	50 (50R)	50 (50R)
50 (50R)	100 (100)	100 (100)
75 (75R)	500 (500)	250 (250)
100 (100)	1.0K (1K0)	500 (500)
	2.0K (2K0)	1.0K (1K0)
	10K (10K)	

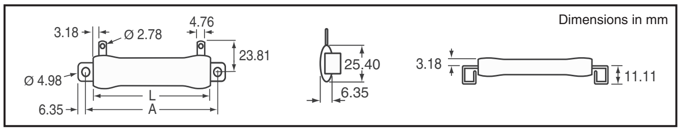

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	50	100	250
1.0 ~ 75	30	F30J(Code)E-ND	8.54	7.68	6.84	6.40
100		F30J(Code)E-ND	8.56	7.78	6.91	6.49
1.0 ~ 5.0	40	F40J(Code)E-ND	8.78	7.92	7.03	6.59
10 ~ 2.0K		F40J(Code)E-ND	8.75	7.89	7.01	6.57
10K		F40J(Code)E-ND	9.00	8.10	7.17	6.74
1.0	55	F55J(Code)E-ND	10.98	9.89	8.79	8.23
5.0		F55J(Code)E-ND	10.51	9.46	8.41	7.89
10 ~ 50		F55J(Code)E-ND	10.05	9.06	8.04	7.54
100 ~ 1.0K		F55J(Code)E-ND	10.28	9.25	8.22	7.72

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

280 Series — Corrib® Fixed Vitreous Enamel Power Resistors

280 Series resistors are ideal for applications involving high currents at very low resistance values. These large, heavy-duty resistors are designed to withstand frequent start-stop cycles characteristic of motor starting, dynamic braking and other similar applications. These resistors are hollow-core units which can be securely fastened to chassis surfaces with thru bolts and brackets.

Features: • Ribbed construction aids in rapid cooling • Designed for equipment requiring low resistance loads at low ohmic values and high current capacity. • Constructed for motor starting, dynamic braking, etc.

Material: • Coating: Lead Free vitreous enamel • Core: Tubular Ceramic • Terminals: Tinned lug with hole **Electrical:** • Tolerance: ±10% • Derating: Linearly from 100% @ 25°C to 0% @ 400°C • Overload: 10 times rated wattage for 5 seconds • Temperature Coefficient: ±400ppm/°C • Dielectric Withstand Voltage: 1000 VAC measured from terminal to mounting bracket

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R10)	.50 (R50)	2.5 (2R5)	12 (12R)
.12 (R12)	.63 (R63)	4.0 (4R0)	16 (16R)
.20 (R20)	1.0 (1R0)	5.0 (5R0)	20 (20R)
.25 (R25)	1.2 (1R2)	6.3 (6R3)	
.31 (R31)	1.6 (1R6)	8.0 (8R0)	
.40 (R40)	2.0 (2R0)	10 (10R)	

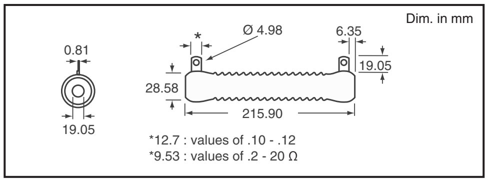

*12.7 : values of .10 - .12
*9.53 : values of .2 - 20 Ω

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	10	25	100
.10	300	C300K(Code)E-ND	38.28	32.53	26.79	25.84
.12		C300K(Code)E-ND	35.36	30.07	24.75	23.87
.20 ~ .31		C300K(Code)E-ND	31.68	26.92	22.17	21.39
.40 ~ .63		C300K(Code)E-ND	29.02	24.68	20.31	19.61
1.0 ~ 1.6		C300K(Code)E-ND	25.97	22.08	18.18	17.53
2.0 ~ 4.0		C300K(Code)E-ND	24.02	20.42	16.81	16.22
5.0 ~ 8.0		C300K(Code)E-ND	22.93	19.49	16.05	15.49
10 ~ 20		C300K(Code)E-ND	22.10	18.78	15.48	14.94

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Resistor Mounting Hardware

Thru Bolts Mounting Brackets for 300 Watt Corrib

Includes 2 each of brackets, bolts, washers (centering, mica, lock) and nut.

Description	No. of Resistors	Digi-Key Part No.	Price Each 1	10	50	100
Mounting Bracket	1	6126-P-8 1-2E-ND	12.58	9.68	8.11	7.55
	2	6127-P-8 1-2E-ND	17.24	13.26	11.11	10.35
	3	6128-P-8 1-2E-ND	19.82	16.85	13.87	13.38
	4	6129-P-8 1-2E-ND	29.05	22.34	18.72	17.43

Wirewound Rheostats — 12.5, 25 and 50 Watt

RESISTANCE VALUE CHARTS

RES Series - 12.5 / RHS Series - 25 Watt

Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	50 (50R)	750 (750)
2.0 (2R0)	75 (75R)	1.0K (1K0)
3.0 (3R0)	100 (100)	1.5K (1K5)
6.0 (6R0)	125 (125)	2.5K (2K5)
8.0 (8R0)	175 (175)	3.5K (3K5)
10 (10R)	250 (250)	5.0K (5K0)
15 (15R)	350 (350)	10.0K (10K)
25 (25R)	500 (500)	

RJS Series - 50 Watt

Value (Code)	Value (Code)	Value (Code)
.50 (R50)	125 (125)	2.5K (2K5)
1.0 (1R0)	150 (150)	5.0K (5K0)
6.0 (6R0)	225 (225)	10.0K (10K)
35 (35R)	500 (500)	
50 (50R)	1.0K (1K0)	

	RES	RHS	RJS
Wattage	12.5W	25W	50W
Resistor Tolerance	±10%	±10%	±10%
Core Diameter (mm)	22.23	39.69	58.74
Shaft Diameter (mm)	3.18	6.35	6.35
Running Torque	1 ~ 6 in. oz.	.25 ~ .5 in. lb.	.25 ~ 2 in. lb.
Weight	.6 oz.	.19 lbs.	.32 lbs.
Rotation	300° ±5%	300° ±5%	300° ±5%
Memcor-Truohm Equivalent	RH12	RH25	RH50

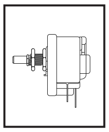

Description	Digi-Key Part No.	Price Each 1	10
RoHS Compliant			
Knob for 12.5W Rheostat	5151E-ND	5.49	3.85
Knob for 25/50W Rheostat	5150E-ND	7.57	5.30

Resistance Range (Ω)	Digi-Key Part No.*	Price Each 1	10	100	250
750	RES750-ND	31.61	24.60	22.85	21.08
2.5K	RHS2K5-ND	38.53	34.25	25.69	—
RoHS Compliant					
1.0 ~ 8.0	RES(Code)E-ND	26.08	23.49	18.27	16.97
10 ~ 350	RES(Code)E-ND	24.73	22.25	16.08	14.85
500 ~ 1.5K	RES(Code)E-ND	25.39	22.85	16.52	15.25
2.5K ~ 5.0K	RES(Code)E-ND	27.04	24.34	17.58	16.23
10.0K	RES10KE-ND	26.53	23.89	17.25	15.93
1.0 ~ 8.0	RHS(Code)E-ND	29.07	26.17	20.36	17.45
10 ~ 750	RHS(Code)E-ND	27.79	25.01	19.45	16.67
1.0K ~ 5.0K	RHS(Code)E-ND	28.75	25.88	20.13	17.25
10.0K	RHS(Code)E-ND	31.17	28.05	21.82	18.70
.50	RJSR50E-ND	42.08	37.87	29.46	25.25
1.0 ~ 6.0	RJS(Code)E-ND	37.59	33.83	26.32	22.56
35 ~ 150	RJS(Code)E-ND	32.90	29.60	23.02	19.74
225 ~ 500	RJS(Code)E-ND	31.59	28.44	22.13	18.96
1.0K ~ 10.0K	RJS(Code)E-ND	34.55	31.10	24.19	20.74

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

G Series — Capacitor Discharge Resistors – 10 and 13 Watt

Features: • Specially Designed to meet Repetitive Pulse Loading • Corrosion Resistant Terminals for long life • Superior Vibration Resistance • IEC 115-1 Reference Standard
Specifications: • Temperature Range: -55°C ~ 200°C • Terminal Strength: >25N • Derating: 25°C ~ 275°C, Linearly • TCR: ±100 ppm/°C • Tolerance: ±5%

Series	Wattage @25°C	Wattage @70°C	Limiting Voltage	Length P (in. ± .039 / mm ± 1)
GW10	10	8.5	685	0.866 / 22.0
GW13	13	11	940	1.252 / 31.8

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
1.0K (1K00)	7.5K (7K50)	20K (20K0)	75K (75K0)
2.5K (2K50)	10K (10K0)	40K (40K0)	
5.0K (5K00)	15K (15K0)	50K (50K0)	

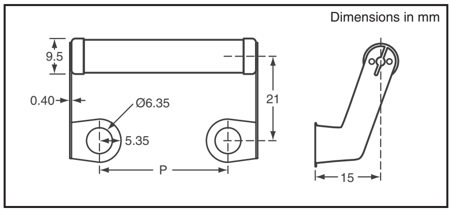

Resistance Range (Ω)	Wattage	Digi-Key Part No.*	Price Each 1	25	50	100
1.0K ~ 15K	10	GW10J(Code)E-ND	5.64	3.59	3.53	3.48
20K ~ 25K		GW10J(Code)E-ND	5.72	3.64	3.58	3.53
40K		GW10J(Code)E-ND	5.78	3.68	3.62	3.56
50K		GW10J(Code)E-ND	5.91	3.77	3.70	3.64
75K		GW10J(Code)E-ND	6.55	4.17	4.10	4.04
1.0K ~ 15K	13	GW13J(Code)E-ND	5.75	3.66	3.60	3.55
20K ~ 25K		GW13J(Code)E-ND	5.83	3.71	3.65	3.60
40K		GW13J(Code)E-ND	5.91	3.77	3.70	3.64
50K		GW13J(Code)E-ND	6.02	3.84	3.77	3.71
75K		GW13J(Code)E-ND	6.66	4.24	4.17	4.10

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

High Voltage Resistor — HVR
A multi layer metal film is deposited on a high-grade ceramic body. After a helical groove has been cut in the resistive layer, tinned electrolytic copper wires are welded to the end caps. The resistors are coated with a blue lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD 202, method 215" and "IEC 60068-2-45". **Features:**
- Metal film technology
- High pulse loading capability

Specifications:
- Limiting Voltage: 1600VDC (HVR25), 3500VDC (HVR37), 10,000VDC (HVR68)
- Temperature Coefficient: ± 250ppm/°C

HVR25 5% High Voltage Metal Film Resistors — .25 Watt

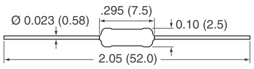

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560K
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750K
820K
910K
1.0M

Description	Value Range	Digi-Key Part No.	5	200	Pricing 1,000	5,000	10,000	Mfg. Part No.
.25W, High Voltage Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	100K~1.0MΩ	PPCQJ(Value)TR-ND	—	—	—	71.00/M	61.00/M	HVR250000xxxxxJR500
.25W, High Voltage Metal Film Fixed Resistor; Cut Tape	100K~1.0MΩ	PPCQJ(Value)CT-ND	2.19	33.35	86.25	—	—	HVR250000xxxxxJR500

HVR37 5% High Voltage Metal Film Resistors — .50 Watt

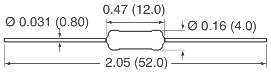

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5.6M
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6.8M
7.5M
8.2M
9.1M
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15M
16M
18M
20M
22M
24M
27M
30M
33M

Description	Value Range	Digi-Key Part No.	5	200	Pricing 1,000	5,000	10,000	Mfg. Part No.
.50W, High Voltage Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	100K~33MΩ	PPCHJ(Value)TR-ND	—	—	—	101.00/M	86.00/M	HVR370000xxxxxJR500
.50W, High Voltage Metal Film Fixed Resistor; Cut Tape	100K~33MΩ	PPCHJ(Value)CT-ND	2.95	44.95	116.25	—	—	HVR370000xxxxxJR500

HVR68 5% High Voltage Metal Film Resistors — 1 Watt

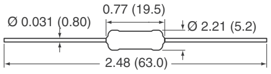

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3.6M
3.9M
4.3M
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6.8M
7.5M
8.2M
9.1M
10M

Description	Value Range	Digi-Key Part No.	5	200	Pricing 500	2,500	5,000	Mfg. Part No.
1W, High Voltage Metal Film Fixed Resistor; Ammo Box (500 pcs.)	100K~1.0MΩ	PPC1J(Value)TB-ND	—	—	221.50	378.00/M	342.00/M	HVR680000xxxxxJAC00
1W, High Voltage Metal Film Fixed Resistor; Cut Tape	100K~1.0MΩ	PPC1J(Value)CT-ND	11.59	176.90	—	—	—	HVR680000xxxxxJAC00
1W, High Voltage Metal Film Fixed Resistor; Ammo Box (500 pcs.)	1.1M~10MΩ	PPC1J(Value)TB-ND	—	—	225.00	384.00/M	348.00/M	HVR680000xxxxxJAC00
1W, High Voltage Metal Film Fixed Resistor; Cut Tape	1.1M~10MΩ	PPC1J(Value)CT-ND	11.78	179.80	—	—	—	HVR680000xxxxxJAC00

HVR25 1% High Voltage Metal Film Resistors — .25 Watt

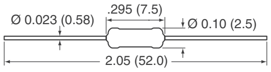

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887K
909K
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931K
953K
976K
1.0M

Description	Value Range	Digi-Key Part No.	5	200	Pricing 1,000	5,000	10,000	Mfg. Part No.
.25W, High Voltage Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	100K~1.0MΩ	PPCQF(Value)TR-ND	—	—	—	111.00/M	94.00/M	HVR250000xxxxxFR500
.25W, High Voltage Metal Film Fixed Resistor; Cut Tape	100K~1.0MΩ	PPCQF(Value)CT-ND	3.18	48.58	125.63	—	—	HVR250000xxxxxFR500

HVR37 1% High Voltage Metal Film Resistors — .50 Watt

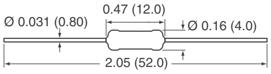

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8.06M
8.20M
8.25M
8.45M
8.66M
8.87M
9.09M
9.10M
9.31M
9.53M
9.76M
10M

Description	Value Range	Digi-Key Part No.	5	200	Pricing 1,000	5,000	10,000	Mfg. Part No.
.50W, High Voltage Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	100K~1.20MΩ	PPCHF(Value)TR-ND	—	—	—	139.00/M	118.00/M	HVR370000xxxxxFR500
.50W, High Voltage Metal Film Fixed Resistor; Cut Tape	100K~1.20MΩ	PPCHF(Value)CT-ND	3.90	59.45	153.75	—	—	HVR370000xxxxxFR500
.50W, High Voltage Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	1.21M~10MΩ	PPCHF(Value)TR-ND	—	—	—	143.00/M	122.00/M	HVR370000xxxxxFR500
.50W, High Voltage Metal Film Fixed Resistor; Cut Tape	1.21M~10MΩ	PPCHF(Value)CT-ND	3.99	60.90	157.50	—	—	HVR370000xxxxxFR500

SFR25 Type 1% Metal Film Fixed Resistors — .40 Watt 5043ED Series

RoHS Compliant Parts Available

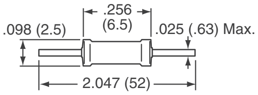

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with non-flammable light green, lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with “MIL-STD-202E, Method 215” and “IEC 60068-2-45”.

CHARACTERISTICS:
• **Resistance Tolerance:** ±1% • **Temperature Coefficient:** R≤1MΩ = ±100 ppm/°C, R>1MΩ = ±250ppm/°C • **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 0.40W • **Thermal Resistance, R_{TH}:** 200K/W • **Maximum Continuous Operating Voltage:** 250V (DC or RMS) • **Noise R ≤ 1 MΩ:** Maximum 0.1 μV/V • **Operating Temperature Range:** -55°C ~ 155°C

Standard Resistor Values

10.0	46.4	118	280	619	1.24K	2.43K	4.64K	8.06K	16.9K	34.8K	68.1K	200K	432K	1.58M
10.2	47.5	121	294	649	1.27K	2.49K	4.75K	8.25K	17.4K	35.7K	71.5K	210K	442K	1.60M
11.0	49.9	124	301	665	1.30K	2.55K	4.87K	9.09K	18.2K	36.0K	75.0K	221K	464K	1.62M
11.3	51.1	127	324	681	1.33K	2.67K	4.99K	9.53K	18.7K	37.4K	78.7K	226K	475K	1.65M
11.5	53.6	133	332	698	1.40K	2.74K	5.10K	9.76K	19.6K	38.3K	82.5K	232K	499K	1.78M
13.0	56.2	140	340	715	1.43K	2.87K	5.11K	10.0K	20.0K	39.2K	86.6K	243K	511K	1.80M
15.0	57.6	150	348	750	1.47K	2.94K	5.23K	10.2K	20.5K	40.2K	88.7K	249K	562K	1.82M
18.2	60.4	158	374	768	1.50K	3.01K	5.36K	10.7K	21.5K	41.2K	90.9K	255K	604K	1.96M
19.1	61.9	169	392	787	1.54K	3.09K	5.49K	11.0K	22.1K	42.2K	97.6K	270K	619K	2.00M
20.0	62.0	178	402	806	1.58K	3.16K	5.60K	11.3K	24.3K	43.2K	100K	274K	634K	
21.5	63.4	182	422	825	1.62K	3.24K	5.62K	11.5K	24.9K	45.3K	110K	280K	681K	
22.1	68.1	196	430	845	1.69K	3.32K	5.90K	11.8K	25.5K	46.4K	120K	294K	715K	
23.2	69.8	200	432	866	1.74K	3.48K	6.04K	12.1K	26.1K	47.5K	121K	301K	750K	
24.3	75.0	205	442	909	1.78K	3.57K	6.19K	12.4K	26.7K	49.9K	124K	309K	1.00M	
24.9	80.6	210	453	931	1.82K	3.65K	6.34K	12.7K	27.4K	51.1K	127K	324K	1.05M	
26.1	82.0	220	475	953	1.87K	3.74K	6.49K	13.0K	28.7K	53.6K	130K	332K	1.10M	
27.4	82.5	221	487	1.00K	1.91K	3.83K	6.65K	13.3K	29.4K	54.9K	140K	340K	1.15M	
33.2	88.7	232	499	1.05K	2.00K	3.92K	6.81K	13.7K	30.1K	56.0K	150K	348K	1.21M	
34.8	90.9	237	511	1.07K	2.10K	4.02K	6.98K	14.0K	30.9K	56.2K	165K	365K	1.30M	
36.5	95.3	243	536	1.10K	2.15K	4.22K	7.15K	14.3K	31.6K	60.4K	169K	374K	1.43M	
39.2	100	249	562	1.15K	2.21K	4.32K	7.32K	15.0K	32.4K	61.9K	182K	392K	1.47M	
40.2	105	267	590	1.18K	2.32K	4.42K	7.50K	15.8K	33.2K	63.4K	191K	402K	1.50M	
43.2	110	274	604	1.21K	2.37K	4.53K	7.68K	16.2K	34.0K	64.9K	196K	422K	1.54M	

Description	Value Range	Digi-Key Part No.	Pricing					Mfg. Part No.
			5	200	1,000	5,000	10,000	
.40 Watt, 1% Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	10.0 ~ 2.00MΩ	PPC(Value)YTR-ND	—	—	—	22.50/M	19.20/M	SFR250000xxxxFR500
.40 Watt, 1% Metal Film Fixed Resistor; Cut Tape	10.0 ~ 2.00MΩ	PPC(Value)YCT-ND	.95	14.50	37.50	—	—	SFR250000xxxxFR500

SFR16S Type 1% Metal Film Fixed Resistors — .50 Watt 5033ED Series

RoHS Compliant Parts Available

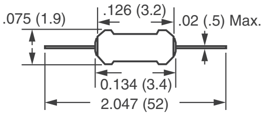

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with non-flammable light blue lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with “MIL-STD-202E, Method 215” and “IEC 60068-2-45”.

CHARACTERISTICS:
• **Resistance Tolerance:** ±1% • **Temperature Coefficient:** R≤ 200KΩ = ±100ppm/°C, R> 200KΩ = ±250ppm/°C • **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 0.50W • **Thermal Resistance, R_{TH}:** 170K/W • **Maximum Continuous Operating Voltage:** 200V (DC or RMS) • **Operating Temperature Range:** -55°C ~ 155°C

Standard Resistor Values

10.0	47.5	100	301	590	1.05K	2.49K	4.99K	9.76K	17.8K	35.7K	73.2K	182K	499K
10.7	48.7	121	309	604	1.21K	2.55K	5.11K	10.0K	18.2K	36.5K	75.0K	191K	549K
20.0	49.9	124	324	665	1.24K	2.74K	5.23K	10.2K	18.7K	39.2K	82.5K	200K	562K
22.1	51.1	147	332	681	1.30K	2.80K	5.36K	11.0K	20.0K	40.2K	90.9K	220K	634K
22.6	54.9	150	365	698	1.50K	3.01K	5.49K	12.1K	20.5K	41.2K	100K	221K	681K
26.1	57.6	158	383	715	1.58K	3.09K	5.62K	12.4K	22.1K	43.2K	105K	249K	806K
27.4	60.4	162	390	750	1.65K	3.24K	5.90K	12.7K	23.7K	47.5K	110K	294K	820K
28.0	63.4	191	392	787	1.69K	3.32K	6.49K	13.0K	24.3K	48.7K	115K	301K	931K
30.1	64.9	200	402	806	1.82K	3.65K	6.81K	13.3K	24.9K	49.9K	121K	324K	1.00M
33.2	68.1	221	432	825	1.96K	3.83K	6.98K	14.0K	25.5K	51.1K	124K	332K	1.02M
35.7	75.0	226	475	866	2.00K	3.92K	7.50K	14.7K	26.7K	54.9K	150K	348K	1.07M
37.4	76.8	249	499	909	2.21K	4.02K	8.20K	15.0K	28.0K	56.2K	154K	402K	1.10M
38.3	82.5	267	511	953	2.26K	4.32K	8.25K	15.8K	30.1K	60.4K	158K	412K	1.21M
39.2	90.9	274	549	1.00K	2.37K	4.53K	9.09K	16.2K	32.4K	68.1K	165K	432K	1.82M
41.2	93.1	280	562	1.02K	2.43K	4.75K	9.53K	16.9K	33.2K	69.8K	169K	475K	2.00M

Description	Value Range	Digi-Key Part No.	Pricing					Mfg. Part No.
			5	200	1,000	5,000	10,000	
.50 Watt, 1% Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	10.0 ~ 2.00MΩ	PPC(Value)XTR-ND	—	—	—	28.13/M	24.00/M	SFR16S000xxxxFR500
.50 Watt, 1% Metal Film Fixed Resistor; Cut Tape	10.0 ~ 2.00MΩ	PPC(Value)XCT-ND	1.09	16.68	43.13	—	—	SFR16S000xxxxFR500

MRS25 Type 1% Metal Film Fixed Resistors — .60 Watt 5053MC Series

RoHS Compliant Parts Available

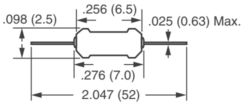

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a green, non-flammable lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with “MIL-STD-202E, Method 215” and “IEC 60068-2-45”.

CHARACTERISTICS:
• **Resistance Tolerance:** ±1% • **Temperature Coefficient:** ±50 ppm/°C • **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 0.60W • **Thermal Resistance, R_{TH}:** 150K/W • **Maximum Continuous Operating Voltage:** 350V (DC or RMS) • **Operating Temperature Range:** -55°C ~ 155°C

Standard Resistor Values

10.0	44.2	110	243	475	1.10K	2.67K	5.49K	12.1K	28.0K	78.7K	294K	750K
10.7	46.4	121	249	499	1.21K	2.74K	5.90K	12.4K	30.1K	82.5K	301K	787K
12.4	47.5	130	255	511	1.24K	2.94K	6.04K	13.0K	34.0K	90.9K	316K	806K
13.3	49.9	137	267	549	1.30K	3.01K	6.19K	14.0K	39.2K	100K	324K	825K
14.0	51.1	140	274	562	1.40K	3.16K	6.49K	14.3K	40.2K	121K	332K	931K
15.0	54.9	143	280	576	1.50K	3.32K	6.81K	15.0K	41.2K	150K	348K	976K
18.2	56.2	150	301	604	1.58K	3.40K	6.98K	16.9K	43.2K	162K	374K	1.10M
20.0	60.4	154	316	619	1.62K	3.74K	7.15K	17.4K	44.2K	165K	392K	1.20M
22.1	61.9	165	324	665	1.65K	3.92K	7.50K	18.2K	47.5K	182K	442K	1.50M
23.7	71.5	169	332	681	1.69K	4.02K	7.68K	18.7K	48.7K	200K	475K	1.80M
24.9	75.0	178	365	750	1.82K	4.22K	8.25K	19.1K	49.9K	221K	499K	2.00M
27.4	78.7	182	392	768	2.00K	4.32K	8.66K	20.0K	51.1K	226K	511K	2.20M
30.9	82.5	191	402	825	2.21K	4.64K	9.09K	21.0K	56.2K	243K	576K	
33.2	90.9	200	422	909	2.26K	4.75K	9.76K	22.1K	66.5K	249K	619K	
35.7	93.1	210	432	931	2.32K	4.99K	10.0K	24.9K	68.1K	255K	649K	
38.3	100	215	442	953	2.43K	5.11K	10.2K	26.7K	75.0K	267K	665K	
42.2	102	221	464	1.00K	2.49K	5.36K	11.3K	27.4K	76.8K	280K	681K	

Description	Value Range	Digi-Key Part No.	Pricing					Mfg. Part No.
			5	200	1,000	5,000	10,000	
.60 Watt, 1% Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	10.0 ~ 2.20MΩ	PPC(Value)ZTR-ND	—	—	—	31.88/M	27.20/M	MRS25000CxxxxxFRP00
.60 Watt, 1% Metal Film Fixed Resistor; Cut Tape	10.0 ~ 2.20MΩ	PPC(Value)ZCT-ND	1.19	18.13	46.88	—	—	MRS25000CxxxxxFRP00

PR01 Type 5% Power Metal Film Fixed Resistors — 1 Watt 5073NW Series *RoHS Compliant Parts Available*

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

Characteristics:

- **Resistance Tolerance:** ±5%
- **Temperature Coefficient:** ±250 ppm/°C
- **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 1.0W
- **Thermal Resistance, R_{TH}:** 135K/W
- **Maximum Continuous Operating Voltage:** 350V (DC or RMS)
- **Operating Temperature Range:** -55°C ~ 155°C

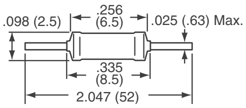

Standard Resistor Values

1.0	3.3	10	33	100	330	1.0K	3.3K	10K	43K	180K	750K
1.1	3.6	11	36	110	360	1.1K	3.6K	12K	47K	200K	820K
1.2	3.9	12	39	120	390	1.2K	3.9K	15K	51K	220K	1.0M
1.3	4.3	13	43	130	430	1.3K	4.3K	16K	56K	240K	
1.5	4.7	15	47	150	470	1.5K	4.7K	18K	62K	270K	
1.6	5.1	16	51	160	510	1.6K	5.1K	20K	68K	300K	
1.8	5.6	18	56	180	560	1.8K	5.6K	22K	82K	330K	
2.0	6.2	20	62	200	620	2.0K	6.2K	24K	91K	390K	
2.2	6.8	22	68	220	680	2.2K	6.8K	27K	100K	470K	
2.4	7.5	24	75	240	750	2.4K	7.5K	30K	120K	510K	
2.7	8.2	27	82	270	820	2.7K	8.2K	33K	130K	560K	
3.0	9.1	30	91	300	910	3.0K	9.1K	39K	150K	680K	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Mfg. Part No.
1W, Power Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	1.0 ~ 1.0MΩ	PPC(Value)W-1TR-ND	—	—	—	53.63/M	45.76/M	PR0100010xxxxxJR500
1W, Power Metal Film Fixed Resistor; Cut Tape	1.0 ~ 1.0MΩ	PPC(Value)W-1CT-ND	1.74	26.54	68.63	—	—	PR0100010xxxxxJR500

PR02 Type 5% Power Metal Film Fixed Resistors — 2 Watt 5083NW Series *RoHS Compliant Parts Available*

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

Characteristics:

- **Resistance Tolerance:** ±5%
- **Temperature Coefficient:** ±250 ppm/°C
- **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 2.0W
- **Thermal Resistance, R_{TH}:** 75K/W
- **Maximum Continuous Operating Voltage:** 500V (DC or RMS)
- **Operating Temperature Range:** -55°C ~ 155°C

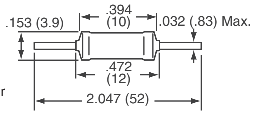

Standard Resistor Values

1.0	3.0	8.2	24	68	200	560	1.8K	5.1K	15K	43K	150K	510K
1.1	3.3	9.1	27	75	220	620	2.0K	5.6K	16K	47K	160K	560K
1.2	3.6	10	30	82	240	680	2.2K	6.2K	18K	51K	180K	620K
1.3	3.9	11	33	91	270	750	2.4K	6.8K	20K	56K	200K	680K
1.5	4.3	12	36	100	300	820	2.7K	7.5K	22K	62K	220K	750K
1.6	4.7	13	39	110	330	1.0K	3.0K	8.2K	24K	68K	240K	1.0M
1.8	5.1	15	43	120	360	1.1K	3.3K	9.1K	27K	75K	270K	
2.0	5.6	16	47	130	390	1.2K	3.6K	10K	30K	82K	300K	
2.2	6.2	18	51	150	430	1.3K	3.9K	11K	33K	91K	330K	
2.4	6.8	20	56	160	470	1.5K	4.3K	12K	36K	100K	390K	
2.7	7.5	22	62	180	510	1.6K	4.7K	13K	39K	120K	470K	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Mfg. Part No.
2W, Power Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	1.0 ~ 1.0MΩ	PPC(Value)W-2TR-ND	—	—	—	104.25/M	88.96/M	PR0200020xxxxxJR500
2W, Power Metal Film Fixed Resistor; Cut Tape	1.0 ~ 1.0MΩ	PPC(Value)W-2CT-ND	3.02	46.11	119.25	—	—	PR0200020xxxxxJR500

PR03 Type 5% Power Metal Film Fixed Resistors — 3 Watt 5093NW Series *RoHS Compliant Parts Available*

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

Characteristics:

- **Resistance Tolerance:** ±5%
- **Temperature Coefficient:** ±250 ppm/°C
- **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 3.0W
- **Thermal Resistance, R_{TH}:** 60K/W
- **Maximum Continuous Operating Voltage:** 750V (DC or RMS)
- **Operating Temperature Range:** -55°C ~ 155°C

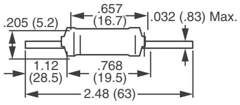

Standard Resistor Values

10	51	200	820	4.7K	16K	47K	160K	750K
12	56	220	1.0K	5.1K	18K	51K	200K	1.0M
15	62	240	1.1K	6.8K	20K	56K	220K	
18	68	300	1.2K	7.5K	22K	62K	240K	
20	75	330	1.5K	8.2K	24K	75K	330K	
24	100	390	2.0K	10K	27K	82K	360K	
27	110	470	2.4K	11K	30K	100K	390K	
33	120	510	2.7K	12K	33K	120K	430K	
43	150	560	3.0K	13K	36K	130K	470K	
47	180	680	3.9K	15K	39K	150K	510K	

Description	Value Range	Digi-Key Part No.	Pricing 5	100	500	1,000	5,000	Mfg. Part No.
3W, Power Metal Film Fixed Resistors; Tape & Box (500/AMMO Pk.)	10 ~ 1.0MΩ	PPC(Value)W-3JTB-ND	—	—	81.60	151.47	135.15/M	PR0300020xxxxxJAC00
3W, Power Metal Film Fixed Resistors; Cut Tape	10 ~ 1.0MΩ	PPC(Value)W-3JCT-ND	2.09	23.65	—	—	—	PR0300020xxxxxJAC00

NFR25/NFR25H Type 5% Metal Film Fusible Resistors — 0.33 and 0.5 Watt

5063F and 5065F Series

The resistors are coated with a grey, flame retardant lacquer which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

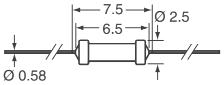

RoHS Compliant Parts Available

Features:

- Fusible resistors
- Defined interruption behavior (fusing time)
- Nonflammable lacquer
- High stability, reliability and uniformity characteristics
- Suitable for protecting circuit boards and designs

Characteristics:

- **Resistance Tolerance:** ±5%
- **Maximum Dissipation at T_{AMB} = 70°C:** NFR25: 0.33W; NFR25H: 0.5W
- **Maximum Permissible Voltage:** NFR25: 250V; NFR25H: 350V
- **Operating Temperature Range:** -55°C ~ 155°C

Standard Resistor Values

.22	2.2	22	330	2.2K
.33	3.3	33	470	3.3K
.47	4.7	47	680	4.7K
.68	6.8	100	68	6.8K
1.0	10	150	1.0K	10K
1.5	15	220	1.5K	15K

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Mfg. Part No.
NFR25, 0.33W, Power Metal Film Fusible Resistors; Tape & Reel (5,000/Reel)	.22 ~ 15KΩ	PPC(Value)ATR-ND	—	—	—	119.63/M	102.08/M	NFR250000xxxxxJR500
NFR25, 0.33W, Power Metal Film Fusible Resistors; Cut Tape	.22 ~ 15KΩ	PPC(Value)ACT-ND	3.41	52.06	134.63	—	—	NFR250000xxxxxJR500
NFR25H, 0.5W, Power Metal Film Fusible Resistors; Tape & Reel (5,000/Reel)	.22 ~ 15KΩ	PPC(Value)BTR-ND	—	—	—	170.63/M	145.60/M	NFR25H000xxxxxJR500
NFR25H, 0.5W, Power Metal Film Fusible Resistors; Cut Tape	.22 ~ 15KΩ	PPC(Value)BCT-ND	4.70	71.78	185.63	—	—	NFR25H000xxxxxJR500

NFR01/02/03 Type 5% Metal Film High Power Fusible Resistors — 1, 2 and 3 Watt

5073FM, 5083FM and 5093FM Series

The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".
Features: • Fusible resistors • Defined interruption behavior (fusing time) • Nonflammable lacquer • High stability, reliability and uniformity characteristics • Suitable for protecting circuit boards and designs
Characteristics: • **Resistance Tolerance:** ±5% • **Maximum Dissipation at 70°C:** NFR01: 1.0W; NFR02: 2.0W; NFR03: 3.0W • **Maximum Permissible Voltage:** NFR01: 350V; NFR02: 500V; NFR03: 500V • **Temperature Coefficient:** ≤±200ppm/°C

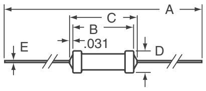

Type	Dimensions (mm) A	B	C	D	E
NFR01	52 ±1.5	6.5	8.5	2.5	0.58 ±0.05 Cu.
NFR02	52 ±1.5	10.0	12.0	4.0	0.8 ±0.03 Cu.
NFR03	63 ±1.5	16.7	19.5	5.3	0.8 ±0.03 Cu.

Standard Resistor Values

.47	2.2	10	47	220	1.0K
.68	3.3	15	68	330	
1.0	4.7	22	100	470	
1.5	6.8	33	150	680	

Description	Value Range	Digi-Key Part No.	Pricing 5	100	200	500	1,000	5,000	10,000	Mfg. Part No.
NFR01, 1W, Metal Film High Power Fusible Resistors; Tape & Reel (5,000/Reel)	.47 ~ 1.0KΩ	PPC(Value)CTR-ND	—	—	—	—	—	159.75/M	136.32/M	NFR010000xxxxxJR500
NFR01, 1W, Metal Film High Power Fusible Resistors; Cut Tape	.47 ~ 1.0KΩ	PPC(Value)CCT-ND	4.43	—	67.57	—	174.75	—	—	NFR010000xxxxxJR500
NFR02, 2W, Metal Film High Power Fusible Resistors; Tape & Reel (5,000/Reel)	.47 ~ 1.0KΩ	PPC(Value)DTR-ND	—	—	—	—	—	258.75/M	220.80/M	NFR020000xxxxxJR500
NFR02, 2W, Metal Film High Power Fusible Resistors; Cut Tape	.47 ~ 1.0KΩ	PPC(Value)DCT-ND	6.94	—	105.85	—	273.75	—	—	NFR020000xxxxxJR500
NFR03, 3W, Metal Film High Power Fusible Resistors; Tape & Box (500/AMMO Pk.)	.47 ~ 1.0KΩ	PPC(Value)ETB-ND	—	—	—	444.80	825.66	736.70/M	667.20/M	NFR030000xxxxxJAC00
NFR03, 3W, Metal Film High Power Fusible Resistors; Cut Tape	.47 ~ 1.0KΩ	PPC(Value)ECT-ND	10.72	121.26	—	—	—	—	—	NFR030000xxxxxJAC00

1% and 5% Cemented Wirewound Resistors

RoHS Compliant Parts Available

The resistor element is a resistive wire which is wound in a single layer on a ceramic rod. Metal caps are pressed over the ends of the rod. The ends of the resistance wire and the leads are connected to the caps by welding. Tinned copper-clad iron leads with poor heat conductivity are employed permitting the use of relatively short leads to obtain stable mounting without overheating the solder joint. The resistor is coated with a green silicon cement which is not resistant to aggressive fluxes. The coating is non-flammable, will not drip even at high overloads and is resistant to most commonly used cleaning solvents, in accordance with MIL-STD-202E, method 215 and IEC 60068-2-45.

Characteristics:

PAC: • Resistance Tolerance: ±1% • Temperature Coefficient: ±100ppm/°C • Rated Dissipation at TAMB=25°C: 1W, 3W, 5W • Operating Temperature Range: -55°C ~ 200°C • Maximum Permissive Body Temperature: 275°C

AC: • Resistance Tolerance: ±5% • Temperature Coefficient: <10Ω +600ppm/°C, >10Ω-80/+140ppm/°C • Rated Dissipation at TAMB=25°C: 1W, 3W, 5W, 7W • Operating Temperature Range: -40°C ~ 200°C • Maximum Permissive Body Temperature: 350°C

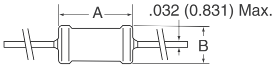

Type	A Max. (mm)	B Max. (mm)
PAC01	10	4.3
PAC03	17	5.5
PAC05	23	7.5
AC01	10	4.3
AC03	13	5.5
AC05	17	7.5
AC07	25	7.5

1% PPC(X)D Resistance Values

1W			3W			5W			
.10	27.0	500	.10	27.0	500	.10	27.0	500	8.2K
.13	30.0	560	.13	30.0	560	.13	30.0	560	9.1K
.15	33.0	620	.15	33.0	620	.15	33.0	620	10.0K
.20	36.0	680	.20	36.0	680	.20	36.0	680	
.25	39.0	750	.25	39.0	750	.25	39.0	750	
.30	47.0	820	.30	47.0	820	.30	47.0	820	
.33	50.0	910	.33	50.0	910	.33	50.0	910	
.47	56.0	1.0K	.47	56.0	1.0K	.47	56.0	1.0K	
.50	68.0	1.1K	.50	68.0	1.1K	.50	68.0	1.1K	
.75	75.0	1.2K	.75	75.0	1.2K	.75	75.0	1.2K	
1.0	82.0	1.5K	1.0	82.0	1.5K	1.0	82.0	1.5K	
1.5	100	1.8K	1.5	100	1.8K	1.5	100	1.8K	
2.0	120	2.0K	2.0	120	2.0K	2.0	120	2.0K	
3.0	124	2.2K	3.0	124	2.2K	3.0	124	2.2K	
3.9	150	2.5K	3.9	150	2.5K	3.9	150	2.5K	
4.7	180		4.7	180	2.7K	4.7	180	2.7K	
5.0	200		5.0	200	3.0K	5.0	200	3.0K	
7.5	220		7.5	220	3.6K	7.5	220	3.6K	
10.0	250		10.0	250	3.9K	10.0	250	3.9K	
12.0	270		12.0	270	4.7K	12.0	270	4.7K	
15.0	300		15.0	300	5.0K	15.0	300	5.0K	
18.0	330		18.0	330		18.0	330	5.6K	
20.0	360		20.0	360		20.0	360	6.2K	
22.0	390		22.0	390		22.0	390	6.8K	
25.0	470		25.0	470		25.0	470	7.5K	

5% PPC(X)W Resistance Values

1W			3W			5W				7W			
.10	27.0	470	.10	27.0	470	.10	27.0	470	6.2K	.10	27.0	470	6.2K
.13	30.0	500	.13	30.0	500	.13	30.0	500	6.8K	.13	30.0	500	6.8K
.15	33.0	560	.15	33.0	560	.15	33.0	560	7.5K	.15	33.0	560	7.5K
.20	36.0	620	.20	36.0	620	.20	36.0	620	8.2K	.20	36.0	620	8.2K
.24	39.0	680	.24	39.0	680	.24	39.0	680	9.1K	.24	39.0	680	9.1K
.30	43.0	750	.30	43.0	750	.30	43.0	750	10.0K	.30	43.0	750	10.0K
.33	47.0	820	.33	47.0	820	.33	47.0	820		.33	47.0	820	11.0K
.47	50.0	910	.47	50.0	910	.47	50.0	910		.47	50.0	910	12.0K
.50	56.0	1.0K	.50	56.0	1.0K	.50	56.0	1.0K		.50	56.0	1.0K	13.0K
.75	68.0	1.1K	.75	68.0	1.1K	.75	68.0	1.1K		.75	68.0	1.1K	15.0K
1.0	75.0	1.2K	1.0	75.0	1.2K	1.0	75.0	1.2K		1.0	75.0	1.2K	
1.5	82.0	1.5K	1.5	82.0	1.5K	1.5	82.0	1.5K		1.5	82.0	1.5K	
2.0	100	1.8K	2.0	100	1.8K	2.0	100	1.8K		2.0	100	1.8K	
3.0	120	2.0K	3.0	120	2.0K	3.0	120	2.0K		3.0	120	2.0K	
3.9	150	2.2K	3.9	150	2.2K	3.9	150	2.2K		3.9	150	2.2K	
4.7	180	2.4K	4.7	180	2.4K	4.7	180	2.4K		4.7	180	2.4K	
5.0	200		5.0	200	2.7K	5.0	200	2.7K		5.0	200	2.7K	
7.5	220		7.5	220	3.0K	7.5	220	3.0K		7.5	220	3.0K	
10.0	240		10.0	240	3.3K	10.0	240	3.3K		10.0	240	3.3K	
12.0	270		12.0	270	3.6K	12.0	270	3.6K		12.0	270	3.6K	
15.0	300		15.0	300	3.9K	15.0	300	3.9K		15.0	300	3.9K	
18.0	330		18.0	330	4.3K	18.0	330	4.3K		18.0	330	4.3K	
20.0	360		20.0	360	4.7K	20.0	360	4.7K		20.0	360	4.7K	
22.0	390		22.0	390	5.0K	22.0	390	5.0K		22.0	390	5.0K	
24.0	430		24.0	430		24.0	430	5.6K		24.0	430	5.6K	

Value Type	Range (Ω)	Watt-age	Res. Tol.	Digi-Key* Part No.	Pricing 5	200	500	Digi-Key* Part No.	Tape and Box Pricing 500	1,000	5,000	10,000	Mfg. Part No.
PAC01	.10 ~ .75, 1.0K ~ 2.5K	1	1%	PPC1D(Value)CT-ND	13.68	208.80	288.00	PPC1D(Value)TB-ND	—	420.00	358.40/M	324.80/M	PAC10000xxxxFA1000
	1.0 ~ 910			PPC1D(Value)CT-ND	11.02	168.20	232.00	PPC1D(Value)TB-ND	—	420.00	358.40/M	324.80/M	PAC10000xxxxFA1000
PAC03	.10 ~ .75, 1.0K ~ 5.0K	3	1%	PPC3D(Value)CT-ND	16.91	258.10	—	PPC3D(Value)TB-ND	288.75	492.80	446.60/M	400.40/M	PAC30000xxxxFAC000
	1.0 ~ 910			PPC3D(Value)CT-ND	14.63	223.30	—	PPC3D(Value)TB-ND	281.25	480.00	435.00/M	390.00/M	PAC30000xxxxFAC000
PAC05	.10 ~ .75, 1.0K ~ 10.0K	5	1%	PPC5D(Value)CT-ND	16.72	255.20	—	PPC5D(Value)TB-ND	330.00	563.20	510.40/M	457.60/M	PAC50000xxxxFAC000
	1.0 ~ 910			PPC5D(Value)CT-ND	16.72	255.20	—	PPC5D(Value)TB-ND	322.50	550.40	498.80/M	447.20/M	PAC50000xxxxFAC000
AC01	.10 ~ .75, 1.0K	1	5%	PPC1W(Value)CT-ND	7.41	113.10	156.00	PPC1W(Value)TB-ND	—	292.50	249.60/M	226.20/M	AC0100000xxxJA100
	1.0 ~ 910, 1.1K ~ 1.8K			PPC1W(Value)CT-ND	7.79	118.90	164.00	PPC1W(Value)TB-ND	—	292.50	249.60/M	226.20/M	AC0100000xxxJA100
	2.0K ~ 2.4K			PPC1W(Value)CT-ND	8.46	129.05	178.00	PPC1W(Value)TB-ND	—	318.75	272.00/M	246.50/M	AC0100000xxxJA100
AC03	.10 ~ .75	3	5%	PPC3W(Value)CT-ND	9.60	146.45	—	PPC3W(Value)TB-ND	180.00	307.20	278.40/M	249.60/M	AC0300000xxxJAC100
	1.0 ~ 910			PPC3W(Value)CT-ND	9.12	139.20	—	PPC3W(Value)TB-ND	172.50	294.40	266.80/M	239.20/M	AC0300000xxxJAC100
	1.0K ~ 5.0K			PPC3W(Value)CT-ND	8.74	133.40	—	PPC3W(Value)TB-ND	225.00	384.00	348.00/M	312.00/M	AC0300000xxxJAC100
AC05	.10 ~ .75	5	5%	PPC5W(Value)CT-ND	12.54	191.40	—	PPC5W(Value)TB-ND	185.63	316.80	287.10/M	257.40/M	AC0500000xxxJAC100
	1.0 ~ 1.0K			PPC5W(Value)CT-ND	9.79	149.35	—	PPC5W(Value)TB-ND	185.63	316.80	287.10/M	257.40/M	AC0500000xxxJAC100
	1.1K ~ 10.0K			PPC5W(Value)CT-ND	12.92	197.20	—	PPC5W(Value)TB-ND	247.50	422.40	382.80/M	343.20/M	AC0500000xxxJAC100
AC07	.10 ~ .75	7	5%	PPC7W(Value)CT-ND	16.63	253.75	—	PPC7W(Value)TB-ND	264.38	451.20	408.90/M	366.60/M	AC0700000xxxJAC100
	1.0 ~ 910			PPC7W(Value)CT-ND	13.40	204.45	—	PPC7W(Value)TB-ND	256.88	438.40	397.30/M	356.20/M	AC0700000xxxJAC100
	1.0K ~ 15.0K			PPC7W(Value)CT-ND	13.02	198.65	—	PPC7W(Value)TB-ND	256.88	438.40	397.30/M	356.20/M	AC0700000xxxJAC100

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

VISHAY Dale WSL Power Metal Strip® SMT Resistors

Digi-Reel® RoHS COMPLIANT

Features:

- Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, and power amplifiers
- All welded construction
- Very low inductance 0.5nH ~ 5nH
- Excellent frequency response to 50MHz
- Low thermal EMF (<3μV/°C)
- Operating Temperature Range: -65°C ~ 170°C

Series	Value Range	Dimensions – (mm)			
		L	W	H	T
WSL0805	All Listed Values	2.03	1.27	.330	.381
WSL1206	All Listed Values	3.20	1.60	.635	.508
WSL2010	.001Ω ~ .006Ω	5.08	2.54	.635	1.47
	.007Ω ~ .50Ω	5.08	2.54	.635	.508
WSL2512	.001Ω ~ .004Ω	6.35	3.18	.635	2.21
	.005Ω ~ .006Ω	6.35	3.18	.635	1.19
	.007Ω ~ .50Ω	6.35	3.18	.635	.762

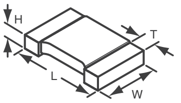

Series	Temperature Coefficient ppm/°C	Short Time Overload
WSL0805	±75	5X Rated Power for 5 Seconds
WSL1206	.002Ω/±275	
	.003Ω ~ .004Ω/±150	
	.005Ω ~ .006Ω/±110	
	.007Ω ~ .2Ω/±75	
WSL2010	.001Ω ~ .002Ω/±275	
	.003Ω ~ .004Ω/±150	
	.005Ω ~ .006Ω/±110	
	.007Ω ~ .50Ω/±75	
WSL2512	.001Ω ~ .002Ω/±275	
	.003Ω ~ .004Ω/±150	
	.005Ω ~ .006Ω/±110	
	.007Ω ~ .5Ω/±75	

Resistance Values WSL0805, 1%, WSLA

.01	.025	.04	.10
.015	.03	.05	.15
.02	.033	.08	.20

Resistance Values WSL1206, 1%, WSLC

.002	.005	.008	.015	.03	.05	.08	.15
.003	.006	.009	.02	.033	.06	.09	.20
.004	.007	.01	.025	.04	.07	.10	

Resistance Values WSL2010, 1%, WSLE

.001	.004	.007	.01	.025	.04	.07	.10	.20	.33
.002	.005	.008	.015	.03	.05	.08	.11	.25	.40
.003	.006	.009	.02	.033	.06	.09	.15	.30	.50

Resistance Values WSL2512, 1%, WSLG

.001	.004	.007	.01	.025	.04	.07	.10	.20	.33
.002	.005	.008	.015	.03	.05	.08	.15	.25	.40
.003	.006	.009	.02	.033	.06	.09	.151	.30	.50

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Pricing			Digi-Key Part No.‡	Reel Qty.	Tape and Reel Pricing					
				1	10	50			2,000	4,000	5,000	6,000	8,000	10,000
WSL0805, 1%, WSLA	.125	.01 ~ .05	WSLA-(Value)CT-ND	1.02	8.67	38.25	WSLA-(Value)TR-ND	5,000	—	—	320.00/M	—	—	300.00/M
		.08 ~ .20	WSLA-(Value)CT-ND	.82	6.97	30.75	WSLA-(Value)TR-ND	5,000	—	—	256.00/M	—	—	240.00/M
WSL1206, 1%, WSLC	.25	.002 ~ .009	WSLC-(Value)CT-ND	1.57	13.35	58.88	WSLC-(Value)TR-ND	4,000	—	496.00/M	—	—	465.00/M	—
		.01 ~ .06	WSLC-(Value)CT-ND	1.12	9.52	42.00	WSLC-(Value)TR-ND	4,000	—	352.00/M	—	—	330.00/M	—
		.07 ~ .20	WSLC-(Value)CT-ND	.92	7.82	34.50	WSLC-(Value)TR-ND	4,000	—	288.00/M	—	—	270.00/M	—
WSL2010, 1%, WSLE	.5	.001 ~ .004	WSLE-(Value)CT-ND	1.92	16.32	72.00	WSLE-(Value)TR-ND	4,000	—	608.00/M	—	—	570.00/M	—
		.005 ~ .009	WSLE-(Value)CT-ND	1.82	15.47	68.25	WSLE-(Value)TR-ND	4,000	—	576.00/M	—	—	540.00/M	—
		.01 ~ .06	WSLE-(Value)CT-ND	1.27	10.80	47.63	WSLE-(Value)TR-ND	4,000	—	400.00/M	—	—	375.00/M	—
		.07 ~ .50	WSLE-(Value)CT-ND	1.07	9.10	40.13	WSLE-(Value)TR-ND	4,000	—	336.00/M	—	—	315.00/M	—
WSL2512, 1%, WSLG	1.0†	.001 ~ .004	WSLG-(Value)CT-ND	1.97	16.75	73.88	WSLG-(Value)TR-ND	2,000	624.00/M	—	—	585.00/M	—	546.00/M
		.005 ~ .009	WSLG-(Value)CT-ND	1.87	15.90	70.13	WSLG-(Value)TR-ND	2,000	592.00/M	—	—	555.00/M	—	518.00/M
		.01 ~ .06	WSLG-(Value)CT-ND	1.27	10.80	47.63	WSLG-(Value)TR-ND	2,000	400.00/M	—	—	375.00/M	—	350.00/M
		.07 ~ .50	WSLG-(Value)CT-ND	1.12	9.52	42.00	WSLG-(Value)TR-ND	2,000	352.00/M	—	—	330.00/M	—	308.00/M

‡ For complete part number, substitute value from Resistance Value Chart for (Value). † For values above .1Ω, derate linearly to 80% rated power at .5Ω.

WSL High Power, Power Metal Strip® SMT Resistors

Features:

Digi-Reel® RoHS COMPLIANT

- Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, and power amplifiers
- Specially selected and stabilized materials allow for high power ratings (2x standard WSL rating)
- All welded construction
- Very low inductance 0.5nH ~ 5nH
- Excellent frequency response to 50MHz
- Low thermal EMF (<3μV/°C)
- Operating Temperature Range: -65°C ~ 170°C

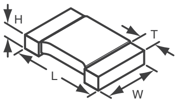

Series	Value Range	Dimensions – (mm)			
		L	W	H	T
WSL0805-18	All Listed Values	2.03	1.27	.330	.381
WSL1206-18	All Listed Values	3.20	1.60	.635	.508
WSL2010-18	.001Ω ~ .006Ω	5.08	2.54	.635	1.47
	.007Ω ~ .50Ω	5.08	2.54	.635	.508
WSL2512-18	.009	6.35	3.18	.635	.762

Series	Temperature Coefficient ppm/°C	Short Time Overload
WSL0805-18	±75	5x Rated Power for 5 Seconds
WSL1206-18	.005Ω ~ .006Ω/±110	
	.007Ω ~ .05Ω/±75	
WSL2010-18	.001Ω/±275	
	.006Ω/±110	
	.007Ω ~ 0.5Ω/±75	
WSL2512-18	.009Ω/±75	

Resistance Values WSL0805-18, 1%, WSLB

.01	.03	.05	.20
.02	.033	.10	
.025	.04	.15	

Resistance Values WSL1206-18, 1%, WSLD

.005	.03
.006	.04
.009	.05

Resistance Values WSL2010-18, 1%, WSLF

.001	.008	.02	.033	.08	.20
.006	.01	.025	.04	.10	.50
.007	.015	.03	.05	.15	

Resistance Value WSL2512-18, 1%, WSLH

.009

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Pricing			Digi-Key Part No.‡	Reel Qty.	Tape and Reel Pricing				
				1	10	50			2,000	4,000	5,000	10,000	12,000
WSL0805-18, 1%, WSLB	.25	.01 ~ .05	WSLB-(Value)CT-ND	1.32	11.22	49.50	WSLB-(Value)TR-ND	5,000	—	—	416.00/M	390.00/M	—
		.10 ~ .20	WSLB-(Value)CT-ND	1.06	9.01	39.75	WSLB-(Value)TR-ND	5,000	—	—	333.00/M	312.00/M	—
WSL1206-18, 1%, WSLD	.5	.005 ~ .009	WSLD-(Value)CT-ND	1.91	16.19	71.44	WSLD-(Value)TR-ND	4,000	—	603.00/M	—	—	528.00/M
		.03 ~ .05	WSLD-(Value)CT-ND	1.45	12.28	54.19	WSLD-(Value)TR-ND	4,000	—	456.00/M	—	—	399.00/M
WSL2010-18, 1%, WSLF	1.0	.001	WSLF-(Value)CT-ND	2.50	21.21	93.56	WSLF-(Value)TR-ND	4,000	—	792.00/M	—	—	693.00/M
		.006 ~ .008	WSLF-(Value)CT-ND	2.37	20.15	88.88	WSLF-(Value)TR-ND	4,000	—	752.00/M	—	—	658.00/M
		.01 ~ .05	WSLF-(Value)CT-ND	1.65	13.98	61.69	WSLF-(Value)TR-ND	4,000	—	520.00/M	—	—	455.00/M
		.08 ~ .50	WSLF-(Value)CT-ND	1.40	11.86	52.31	WSLF-(Value)TR-ND	4,000	—	440.00/M	—	—	385.00/M
WLS2512-18, 1%, WSLH	2.0	.009	WSLH-(Value)CT-ND	2.42	20.57	90.75	WSLH-(Value)TR-ND	2,000	768.00/M	—	—	672.00/M	—

‡ For complete part number, substitute value from Resistance Value Chart for (Value).

WSC Wirewound SMT Resistors

Features: • All welded construction • Molded encapsulation • Wraparound terminations • Excellent stability at different environmental conditions • Superior surge capability

Digi-Reel® RoHS COMPLIANT

Series	Value Range	Dimensions – (mm)			
		L	W	H	T
WSC01/2	All Listed Values	5.08	2.44	1.02	3.18
WSC2515	All Listed Values	6.35	2.79	1.14	3.81
WSC4527	All Listed Values	11.56	4.24	2.54	6.98
WSC6927	All Listed Values	17.53	7.11	2.54	6.98

Series	Operating Temperature Range	Temperature Coefficient ppm/°C	Short Time Overload
WSC01/2	-65°C ~ 175°C	±50	5X Rated Power for 5 Seconds
WSC2515	-65°C ~ 275°C	.50Ω/±90	
		1.0Ω ~ 10Ω/±50	
		50Ω ~ 2.0KΩ/±20	
WSC4527	-65°C ~ 275°C	1.0Ω ~ 5.0Ω/±50	
		10Ω ~ 2.0KΩ/±20	
WSC6927	-65°C ~ 275°C	.50Ω/±90	
		1.0Ω/±50	
		10Ω ~ 1.0KΩ/±20	

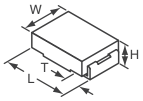

Resistance Values WSC01/2, 1% WSCA

1.0
2.0
4.99

Resistance Values WSC2515, 1%, WSCB

.50	5.0	100
1.0	10	1.0K
2.0	50	2.0K

Resistance Values WSC4527, 1%, WSCC

1.0	10	100	2.0K
2.0	20	400	
5.0	50	1.0K	

Resistance Values WSC6927, 1%, WSCD

.50	100
1.0	1.0K
10	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Pricing			Digi-Key Part No.‡	Reel Qty.	Tape and Reel Pricing		
				1	10	50			725	1,200	2,000
WSC01/2, 1%, WSCA	.5	1.0 ~ 4.99	WSCA-(Value)CT-ND	2.42	20.57	90.75	WSCA-(Value)TR-ND	2,000	—	—	768.00/M
WSC2515, 1%, WSCB	1.0	.50	WSCB-(Value)CT-ND	2.57	21.85	96.38	WSCB-(Value)TR-ND	2,000	—	—	816.00/M
		1.0 ~ 10	WSCB-(Value)CT-ND	1.92	16.32	72.00	WSCB-(Value)TR-ND	2,000	—	—	608.00/M
		50 ~ 100	WSCB-(Value)CT-ND	2.47	21.00	92.63	WSCB-(Value)TR-ND	2,000	—	—	784.00/M
		1.0K ~ 2.0K	WSCB-(Value)CT-ND	3.22	27.37	120.75	WSCB-(Value)TR-ND	2,000	—	—	1024.00/M
WSC4527, 1%, WSCC	2.0	1.0	WSCC-(Value)CT-ND	2.57	21.85	96.38	WSCC-(Value)TR-ND	1,200	—	1020.00/M	—
		2.0 ~ 20	WSCC-(Value)CT-ND	1.92	16.32	72.00	WSCC-(Value)TR-ND	1,200	—	760.00/M	—
		50 ~ 400	WSCC-(Value)CT-ND	2.82	23.97	105.75	WSCC-(Value)TR-ND	1,200	—	1120.00/M	—
		1.0K ~ 2.0K	WSCC-(Value)CT-ND	3.82	32.47	143.25	WSCC-(Value)TR-ND	1,200	—	1520.00/M	—
WSC6927, 1%, WSCD	3.0	.50 ~ 1.0	WSCD-(Value)CT-ND	4.22	35.87	158.25	WSCD-(Value)TR-ND	725	1522.50	—	—
		10 ~ 1.0K	WSCD-(Value)CT-ND	3.72	31.62	139.50	WSCD-(Value)TR-ND	725	1341.25	—	—

‡ For complete part number, substitute value from Resistance Value Chart for (Value).

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY Dale

WSR Power Metal Strip® SMT Resistor

Digi-Reel® RoHS COMPLIANT

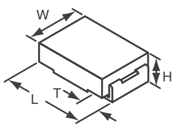

Features:
- Molded high temperature encapsulation
- Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, and power amplifiers
- All welded construction
- Very low inductance 0.5nH ~ 5nH
- Excellent frequency response to 50MHz
- Low thermal EMF (<3µV/°C)
- Operating Temperature Range: -65°C ~ 275°C

Resistance Values
WSR2, 1%, WSRA

.001	.007	.025	.07	.25	1.0
.002	.008	.03	.08	.30	
.003	.009	.033	.09	.33	
.004	.01	.04	.10	.40	
.005	.015	.05	.15	.50	
.006	.02	.06	.20	.75	

Resistance Values
WSR3, 1%, WSRB

.001	.006	.015	.04	.15
.002	.007	.02	.05	.20
.003	.008	.025	.07	
.004	.009	.03	.09	
.005	.01	.033	.10	

Series	Value Range	Dimensions (mm) L	W	H	T
WSR2	All Listed Values	11.56	2.41	2.54	6.98
WSR3	All Listed Values	11.56	2.41	2.54	6.98

Series	Temperature Coefficient (ppm/°C)	Short Time Overload
WSR2	.001Ω ~ .009/±110 .01Ω ~ .1.0/±75	5X Rated Power for 5 Seconds
WSR3	.001Ω ~ .009/±110 .01Ω ~ .20/±75	4X Rated Power for 5 Seconds

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Pricing 1	10	50	Reel Qty.	Tape and Reel Pricing§ 1,500	6,000
WSR2, 1%, WSRA	2.0	.001 ~ .004	WSRA-(Value)CT-ND	2.47	21.00	92.63	1,500	980.00/M	784.00/M
		.005 ~ .009	WSRA-(Value)CT-ND	2.32	19.72	87.00	1,500	920.00/M	736.00/M
		.01 ~ .09	WSRA-(Value)CT-ND	1.92	16.32	72.00	1,500	760.00/M	608.00/M
		.10 ~ 1.0	WSRA-(Value)CT-ND	1.72	14.62	64.50	1,500	680.00/M	544.00/M
WSR3, 1%, WSRB	3.0	.001 ~ .004	WSRB-(Value)CT-ND	2.52	21.42	94.50	1,500	1000.00/M	800.00/M
		.005 ~ .009	WSRB-(Value)CT-ND	2.42	20.57	90.75	1,500	960.00/M	768.00/M
		.01 ~ .09	WSRB-(Value)CT-ND	1.97	16.75	73.88	1,500	780.00/M	624.00/M
		.10 ~ .20	WSRB-(Value)CT-ND	1.77	15.05	66.38	1,500	700.00/M	560.00/M

◊ For complete part number, substitute value from Resistance Value Chart for (Value). § For Tape and Reel part number, change CT-ND to TR-ND.

WSL3637 Power Metal Strip® 4 Terminal SMT Resistors

Digi-Reel® RoHS COMPLIANT

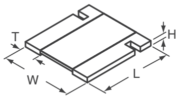

Resistance Values
WSL3637, 1%, WSLI

.003	.006	.009
.004	.007	.01
.005	.008	

Series	Value Range	Dimensions (mm) L	W	H	T
WSL3637	All Listed Values	9.40	9.14	.635	2.18

Features: • Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, and power amplifiers • All welded construction • Low thermal EMF (<3µV/°C) • Very low inductance 0.5nH ~ 5nH • Excellent frequency response to 50MHz

Specifications: • Temperature Coefficient: ±50ppm/°C • Short Time Overload: 5X rated power for 5 seconds • Operating Temperature Range: -65°C ~ 170°C

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Pricing 1	10	50	Reel Qty.	Tape and Reel Pricing§ 4,000	8,000
WSL3637, 1%, WSLI	3.0	.003 ~ .004	WSLI-(Value)CT-ND	2.12	18.02	79.50	4,000	672.00/M	630.00/M
		.005 ~ .009	WSLI-(Value)CT-ND	2.02	17.17	75.75	4,000	640.00/M	600.00/M
		.01	WSLI-(Value)CT-ND	1.42	12.07	53.25	4,000	448.00/M	420.00/M

◊ For complete part number, substitute value from Resistance Value Chart for (Value). § For Tape and Reel part number, change CT-ND to TR-ND.

CW Series Silicone Coated Wirewound Resistors

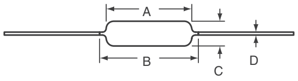

Features:
- High performance for low cost
- High temperature silicone coating
- Complete welded construction
- Excellent stability in operation
- High power to size ratio
- Operating Temperature Range: -65°C ~ 350°C

Series	Dimensions (mm) A	B (Max.)	C	D
CW001	10.31	11.10	2.39	.508
CW02C	12.70	15.06	5.54	1.02
CW02B	14.27	15.80	4.78	.813
CW005	22.22	25.40	7.92	1.02
CW010	45.24	47.62	9.52	1.02

Series	Temperature Coefficient (ppm/°C)	Short Time Overload
CW001	.15Ω ~ .50Ω/±90 1.0Ω ~ 4.0Ω/±50 10Ω ~ 4.7KΩ/±30	5X Rated Power for 5 Seconds
CW02C	.10Ω ~ .51Ω/±90 1.0Ω ~ 4.0Ω/±50 10Ω ~ 15KΩ/±30	
CW02B	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 15KΩ/±30	
CW005	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 50KΩ/±30	10X Rated Power for 5 Seconds
CW010	.10Ω ~ .50Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 100KΩ/±30	

Resistance Values
CW001, 5%, CWA

.30†	15	68	390
.50†	20†	100†	560†
1.0	22	150†	820
4.0	40	270	4.7K†
10†	47†	330	

Resistance Values
CW02B, 5%, CWC

.10†	.75	7.5†	25	40	100†	220	350†	680	1.1K	2.5K	4.7K†	7.5K
.15†	2.0†	12	27	47	120	225	390	700	1.2K	2.7K	5.0K	8.2K
.20†	2.5	15†	30	50†	125	250†	400	750	1.5K	3.0K	5.6K	9.0K
.25	3.0	18	33	56†	150†	270	500	800	1.8K	3.5K	6.0K	10K
.30◆	4.0	20	35	68	180†	300	560	820	2.0K	3.9K	6.8K	12.5K
.33	5.0†	22	39	75	200	330†	600	900	2.2K	4.0K	7.0K	15K

Resistance Values
CW02C, 5% CWB

.20	12†	50†	220†	820	5.6K†
.30	15†	68†	250	1.0K	6.8K
.33	18	82	270†	2.0K	8.2K
.51	20	100†	300	2.2K	10K†
1.5	22†	120	330	2.7K	15K
2.0†	30	150†	350	3.9K	
3.0	33†	180	390	4.7K	
4.0	35	200	470	5.0K	

Resistance Values
CW005, 5%, CWD

.10†	1.5	10†	35†	120†	300	680	1.5K	4.0K†	8.2K	50K
.15	2.0	12	39†	125	330	700	1.8K	4.7K	9.0K	
.20	2.5	15	40	150	350	750	2.0K	5.0K	10K†	
.30	3.0	18	47	180	390	800	2.2K	5.6K	12.5K	
.33	4.0	22	50†	200†	400	820	2.5K	6.0K	15K†	
.50†	4.7	25	68†	220	470	900	2.7K	6.8K	18K†	
.51	5.0	27	75	225	500	1.0K◆	3.0K	7.0K	20K†	
.75	5.6	30	82	250†	560	1.1K	3.5K	7.5K†	25K†	
1.0	7.5†	33	100◆	270†	600	1.2K	3.9K	8.0K	40K†	

Resistance Values
CW010, 5% CWE

.10	3.0†	18	40	125	330†	1.0K†	3.0K	6.8K	25K
.20	4.0	20	47	150	350	1.2K	3.5K	7.5K	40K†
.30	4.7†	22	50	180	400	1.5K†	3.9K	8.2K	50K
.33	5.0†	25†	68	200	470†	1.8K	4.0K	9.0K	100K
.50	7.5	27	75	220	500	2.0K†	4.7K	10K	
1.0†	10†	30	82	250	680	2.2K	5.0K	15K	
1.5	12	33	100†	270	750	2.5K	5.6K	18K	
2.0†	15	35	120	300	800	2.7K	6.0K	20K	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Pricing 1	10	50	Tape and Reel§ Qty.	Pricing
CW001 5%, CWA	1.0	.30 ~ .50	CWA-(Value)CT-ND	.64	5.78	26.99	1,000	430.00
		1.0 ~ 10	CWA-(Value)CT-ND	.42	3.80	17.75	1,000	281.00
		15 ~ 820	CWA-(Value)CT-ND	.45	4.05	18.90	1,000	299.00
		4.7K	CWA-4.7KCT-ND	.81	7.27	33.92	1,000	542.00
CW02B 5% CWC	3.75	.20 ~ .75	CWC-(Value)CT-ND	.77	6.93	32.34	1,000	427.00
		2.0 ~ 900	CWC-(Value)CT-ND	.68	6.08	28.35	1,000	299.00
		1.1K ~ 3.0K	CWC-(Value)CT-ND	.74	6.62	30.87	1,000	337.00
		3.5K ~ 12.5K	CWC-(Value)CT-ND	.86	7.72	36.02	1,000	486.00
		15K	CWC-15KCT-ND	.92	8.26	38.54	1,000	542.00
CW02C 5%, CWB	3.25	.20 ~ .51	CWB-(Value)CT-ND	.77	6.93	32.34	1,000	410.00
		1.5 ~ 1.0K	CWB-(Value)CT-ND	.62	5.54	25.83	1,000	299.00
		2.0K ~ 2.7K	CWB-(Value)CT-ND	.67	6.03	28.14	1,000	337.00
		3.9K ~ 10K	CWB-(Value)CT-ND	.78	7.02	32.76	1,000	486.00
		15K	CWB-15KCT-ND	.84	7.52	35.07	1,000	542.00
CW005 5%, CWD	6.5	.15 ~ .75	CWD-(Value)CT-ND	.92	8.26	38.54	500	284.50
		1.0 ~ 900	CWD-(Value)CT-ND	.70	6.28	29.30	500	218.00
		1.1K ~ 10K	CWD-(Value)CT-ND	.78	7.02	32.76	500	247.50
		12.5K ~ 20K	CWD-(Value)CT-ND	1.03	9.25	43.16	500	346.50
		25K ~ 50K	CWD-(Value)CT-ND	1.19	10.73	50.09	500	396.00
CW010 5%, CWE	13	.10 ~ .33	CWE-(Value)CT-ND	1.59	14.33	66.89	500	444.50
		1.0 ~ 1.0K	CWE-(Value)CT-ND	1.08	9.74	45.47	500	356.50
		1.2K ~ 10K	CWE-(Value)CT-ND	1.22	10.98	51.24	500	435.50
		15K ~ 20K	CWE-(Value)CT-ND	1.39	12.47	58.17	500	455.50

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Pricing 1	10	50	Tape and Reel§ Qty.	Pricing
CW010 5%, CWE	13	25K ~ 50K	CWE-(Value)CT-ND	1.52	13.70	63.95	500	356.50
		100K	CWE-100KCT-ND	1.66	14.94	69.72	—	—
RoHS Compliant								
CW001 5%, CWA	1.0	.30 ~ .50	CWA-(Value)RCT-ND	.59	5.27	24.57	1,000	391.00
		10	CWA-(Value)RCT-ND	.39	3.47	16.17	1,000	255.00
		20 ~ 560	CWA-(Value)RCT-ND	.41	3.69	17.22	1,000	272.00
		4.7K	CWA-4.7KRCT-ND	.74	6.62	30.87	1,000	493.00
CW02B 5%, CWC	3.75	.10 ~ .30	CWC-(Value)RCT-ND	.58	5.22	24.36	1,000	388.00
		2.0 ~ 350	CWC-(Value)RCT-ND	.41	3.69	17.22	1,000	272.00
		4.7K	CWC-4.7KRCT-ND	.66	5.94	27.72	1,000	442.00
CW02C 5%, CWB	3.25	2.0 ~ 270	CWB-(Value)RCT-ND	.41	3.69	17.22	1,000	272.00
		5.6K ~ 10K	CWB-(Value)RCT-ND	.66	5.94	27.72	1,000	442.00
CW005 5%, CWD	6.5	.10 ~ .50	CWD-(Value)RCT-ND	.73	6.57	30.66	500	259.00
		7.5 ~ 1.0K	CWD-(Value)RCT-ND	.56	5.04	23.52	500	198.00
		10K	CWD-(Value)RCT-ND	.64	5.72	26.67	500	225.00
		4.0K ~ 20K	CWD-(Value)RCT-ND	.89	7.97	37.17	500	315.00
		25K ~ 40K	CWD-(Value)RCT-ND	1.01	9.09	42.42	500	360.00
CW010 5%, CWE	13	1.0 ~ 1.0K	CWE-(Value)RCT-ND	.91	8.19	38.22	500	324.00
		1.5K ~ 2.0K	CWE-(Value)RCT-ND	1.11	9.99	46.62	500	396.00
		40K	CWE-40KRCT-ND	.91	8.19	38.22	500	324.00

◊ For complete part number, substitute value from Resistance Value Chart for (Value). § For Tape and Reel part number, change CT-ND to TR-ND. † Also available as ***RoHS Compliant*** ◆ ***RoHS Compliant Only***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY Dale CP Series Wirewound and Metal Oxide Ceramic Case Resistors

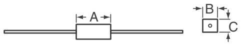

Lead diameter:
Wirewound .914 (mm)
Metal Oxide .813 (mm)

Features: • High performance for low cost • Meets or exceeds requirements of EIA Standard RS-344 • High power to size ratio • Special inorganic potting compound and ceramic case provide high termal conductivity in a fireproof package • Wirewound Operating Temperature Range: -65°C ~ 275°C • Metal Oxide Operating Temperature Range: -65°C ~ 225°C

Series	Dimensions (mm) A	B	C
CP0005	22.22	9.52	8.73
CP0010	47.62	9.52	8.73

Series	Temperature Coefficient (ppm/°C)	Short Time Overload
CP0005 Wirewound	.10Ω ~ .82Ω/± 600 1.0Ω ~ 130Ω/±300	5X Rated Power for 5 Seconds
CP0005 Metal Oxide	150Ω ~ 10KΩ/± 300	
CP0010 Wirewound	.10Ω ~ .50Ω/±600 1.0Ω ~ 820Ω/±300	
CP0010 Metal Oxide	1.0KΩ ~ 6.8KΩ/±400	

Resistance Values CP0005, 5%, CPA, Wirewound

.10◆	.82†	4.0	10†	30	75
.30	1.0†	4.7†	12	33	82
.33†	1.2	5.1	15†	39	100†
.47	1.5	5.6	18†	40	110
.50†	2.0†	6.8	20†	47†	120
.51	2.4	7.5†	22	51	130
.56†	2.7	8.2†	24◆	56	
.68	3.3†	9.1	27	68†	

Resistance Values CP0005, 5%, CPC, Metal Oxide

150◆	560†	2.0K	7.5K
200	680†	2.2K	8.2K
240†	750	2.7K†	9.1K
330†	820	3.3K†	10K◆
390†	1.2K	3.9K	
400	1.3K	5.1K†	
470	1.5K	6.2K†	
510†	1.6K	6.8K	

Resistance Values CP0010, 5%, CPB, Wirewound

1.0†	4.0	10†	27	62	180	360
1.5	4.7†	15†	30†	68	200	400
2.0†	5.1	16	33†	75	220†	470†
2.7	6.2†	18	39	100†	270	750
3.0†	6.8	20†	47†	120	300	820
3.3†	7.5	24	56	160	330	

Resistance Values CP0010, 5%, CPD, Metal Oxide

1.0K	2.2K
1.1K	3.3K
1.2K†	3.9K
1.6K	4.0K
1.8K	6.8K
2.0K†	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Price Each 1	50	100	*RoHS Compliant* Digi-Key Part No.‡	Price Each 1	50	100
CP0005, 5%, CPA, Wirewound	5	.10 ~ .82	CPA-(Value)-ND	.36	.33	.29	CPRA-(Value)-ND	.33	.30	.27
		1.2 ~ 130	CPA-(Value)-ND	.29	.26	.23	CPRA-(Value)-ND	.26	.24	.21
CP0005, 5%, CPC, Metal Oxide	5	150 ~ 560	CPC-(Value)-ND	.29	.26	.23	CPRC-(Value)-ND	.26	.24	.21
		680 ~ 10K	CPC-(Value)-ND	.34	.31	.28	CPRC-(Value)-ND	.31	.28	.25
CP0010, 5%, CPB, Wirewound	10	1.0 ~ 820	CPB-(Value)-ND	.39	.35	.31	CPRB-(Value)-ND	.35	.32	.28
CP0010, 5%, CPD, Metal Oxide	10	1.0K ~ 6.8K	CPD-(Value)-ND	.50	.45	.40	CPRD-(Value)-ND	.45	.41	.36

‡ For complete part number, substitute value from Resistance Value Chart for (Value) † Also available as ***RoHS Compliant*** ◆ ***RoHS Compliant Only***

RS Series Silicone Coated Wirewound Resistors

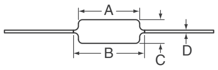

Features:
- High temperature coating (>350°C)
- Complete welded construction
- Meets applicable requirements of MIL-PRF-26 Type RW
- Excellent stabilty in operation (typical resistance shift <0.5%)
- Operating Temperature Range: -65°C ~ 250°C

Series	Dimensions (mm) A	B (Max.)	C	D
RS01A	10.31	11.10	2.39	.508
RS02B	14.22	15.80	4.75	.813
RS05	22.23	25.40	7.92	1.02
RS010	45.21	47.50	9.53	1.02

Series	Temperature Coefficient (ppm/°C)	Short Time Overload
RS01A	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 10KΩ/±20	5X Rated Power for 5 Seconds
RS02B	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 25KΩ/±20	
RS05	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 100KΩ/±20	10X Rated Power for 5 Seconds
RS010	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 100KΩ/±20	

Resistance Values RS01A, 1%, RSA

.10†	.30†	1.5	3.3	12	30	56	120	250†	400	680	1.0K†	2.5K	4.0K†	7.0K
.13†	.33	2.0†	4.0	15†	39†	68	150	270	470	700	1.1K	2.7K†	4.7K	7.5K
.15†	.50	2.5	4.7	18	40	75†	180	300	500	750	1.5K	3.0K	5.6K	8.2K
.20†	.75†	2.7†	5.0†	22	47†	82	200	350†	560◆	800	1.8K	3.5K†	6.0K	10K†
.25†	1.0†	3.0†	7.5	25†	50†	100†	220	390	600	820	2.2K†	3.9K	6.8K	

Resistance Values RS02B, 1%, RSB

.10†	2.5	20	100†	390†	1.8K	6.8K
.13	3.0†	25†	120†	400	2.2K†	7.0K
.15†	3.3†	30†	125†	500◆	2.5K	7.5K
.20†	3.9†	33	150†	600	2.7K†	8.2K
.25†	4.0†	40	180†	680	3.0K	10K†
.30†	4.7†	47	200	800	3.5K	12.5K
.33†	5.0†	50†	220†	820	3.9K	15K
.50†	7.5	56	250†	900	4.0K†	20K†
.75	10†	68	270	1.0K†	4.7K†	
1.0†	12†	70	300	1.1K	5.0K†	
1.5†	15†	75†	330†	1.2K	5.6K	
2.0†	18†	82†	350	1.5K†	6.0K	

Resistance Values RS05, 1%, RSC

.10†	3.3	30	125	600	2.0K†	7.0K
.13	3.9†	35	180	680†	2.2K	7.5K
.15	4.0	40	220	700	2.5K	8.0K
.20†	4.7†	47	225	750	2.7K	8.2K
.25	5.0†	50	250	800†	3.0K†	10K†
.30†	7.5†	56	270	820	3.5K†	12.5K
.33	10†	68†	300†	900	3.9K†	15K†
.50	15†	70	330	1.0K	4.0K	20K◆
.75	18	75	350	1.1K	4.7K	39K†
1.5	20	82	400	1.2K	5.6K†	47K†
2.0	22†	100†	500	1.5K	6.0K	50K†
2.5	25†	120	560†	1.8K	6.8K	100K†

Resistance Values RS010, 1%, RSD

.10†	2.7	56	270	1.0K	6.8K
.13	3.9	68	330	1.1K	7.0K†
.15†	5.0†	70	350	1.2K	7.5K†
.20†	7.5	75	400	1.5K†	8.2K
.25†	10†	100†	470	1.8K	10K†
.30	12	120	500	2.2K	12.5K†
.33	15	125	560†	2.5K	15K
.50†	30	150	600	2.7K	20K†
.75	33	180	680	3.0K	25K†
1.0†	35	200	750	3.5K	39K†
1.5†	39	220	800	4.7K	47K
2.0	47	225	820	5.0K	100K◆

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing 1	10	50	Tape and Reel§ Qty.	Pricing
RS01A 1%, RSA	1.0	.15 ~ .75	RSA-(Value)CT-ND	1.36	12.24	57.12	1,000	1003.00
		1.0 ~ 1.0K	RSA-(Value)CT-ND	1.11	9.99	46.62	1,000	816.00
		1.1K ~ 3.5K	RSA-(Value)CT-ND	1.19	10.67	49.77	1,000	884.00
		3.9K ~ 8.2K	RSA-(Value)CT-ND	1.71	15.39	71.82	1,000	1275.00
RS02B 1%, RSB	3.0	.13 ~ .75	RSB-(Value)CT-ND	1.44	12.92	60.27	1,000	969.00
		2.0 ~ 900	RSB-(Value)CT-ND	.99	8.87	41.37	1,000	663.00
		1.1K ~ 8.2K	RSB-(Value)CT-ND	1.16	10.44	48.72	1,000	782.00
		12.5K ~ 20K	RSB-(Value)CT-ND	1.71	15.39	71.82	1,000	1156.00
RS05 1%, RSC	5.0	.10 ~ .75	RSC-(Value)CT-ND	1.46	13.14	61.32	500	522.00
		2.0 ~ 1.0K	RSC-(Value)CT-ND	1.04	9.32	43.47	—	—
		1.1K ~ 10K	RSC-(Value)CT-ND	1.31	11.79	55.02	500	468.00
		15K ~ 15K	RSC-(Value)CT-ND	1.71	15.39	71.82	500	544.50
RS010 1%, RSD	10	.13 ~ .75	RSD-(Value)CT-ND	2.04	18.32	85.47	500	713.00
		1.0 ~ 1.0K	RSD-(Value)CT-ND	1.56	14.04	65.52	—	—
		1.1K ~ 8.2K	RSD-(Value)CT-ND	1.94	17.42	81.27	500	574.00
		12.5K ~ 25K	RSD-(Value)CT-ND	2.54	22.82	106.47	500	713.00
		39K ~ 47K	RSD-(Value)CT-ND	4.46	40.14	187.32	500	821.50
RoHS Compliant								
RS01A 1%, RSA	1.0	.10 ~ .75	RSA-(Value)RCT-ND	1.36	12.24	57.12	1,000	918.00
		1.0 ~ 1.0K	RSA-(Value)RCT-ND	1.11	9.99	46.62	1,000	748.00

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing 1	10	50	Tape and Reel§ Qty.	Pricing
RS01A 1%, RSA	1.0	2.2K ~ 3.5K	RSA-(Value)RCT-ND	1.19	10.67	49.77	1,000	799.00
		4.0K ~ 10K	RSA-(Value)RCT-ND	1.71	15.39	71.82	1,000	1156.00
RS02B 1%, RSB	3.0	.10 ~ .50	RSB-(Value)RCT-ND	1.31	11.79	55.02	1,000	884.00
		1.0 ~ 1.0K	RSB-(Value)RCT-ND	.89	7.97	37.17	1,000	595.00
		1.5K ~ 10K	RSB-(Value)RCT-ND	1.06	9.54	44.52	1,000	714.00
		20K	RSB-20KRCT-ND	1.56	14.04	65.52	1,000	1054.00
RS05 1%, RSC	5.0	.10 ~ .30	RSC-(Value)RCT-ND	1.46	13.14	61.32	500	522.00
		3.9 ~ 800	RSC-(Value)RCT-ND	1.04	9.32	43.47	500	369.00
		2.0K ~ 10K	RSC-(Value)RCT-ND	1.19	10.67	49.77	500	423.00
		15K ~ 20K	RSC-(Value)RCT-ND	1.39	12.47	58.17	500	495.00
		39K ~ 50K	RSC-(Value)RCT-ND	1.69	15.17	70.77	500	603.00
		100K	RSC-100KRCT-ND	4.26	38.34	178.92	500	1530.00
RS010 1%, RSD	10	.10 ~ .50	RSD-(Value)RCT-ND	1.81	16.29	76.02	500	648.00
		1.0 ~ 560	RSD-(Value)RCT-ND	1.34	12.02	56.07	500	477.00
		1.5K ~ 10K	RSD-(Value)RCT-ND	1.46	13.14	61.32	500	522.00
		12.5K ~ 25K	RSD-(Value)RCT-ND	1.81	16.29	76.02	500	648.00
		39K	RSD-39KRCT-ND	2.09	18.77	87.57	500	747.00
		100K	RSD-100KRCT-ND	2.34	21.02	98.07	500	837.00

‡ For complete part number, substitute value from Resistance Value Chart for (Value). § For Tape and Reel part number, change CT-ND to TR-ND. † Also available as ***RoHS Compliant*** ◆ ***RoHS Compliant Only***

CMF Series Industrial Metal Film Resistors

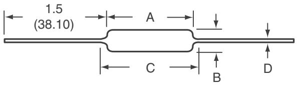

Features:
- Small size – conformal coated
- Flame retardant epoxy coating
- Controlled temperature coefficient
- Excellent high frequency characteristics
- Exceptionally low noise; typically 0.10 µV/V
- Low voltage coefficient to ±5ppm/Volt

Series	Dimensions - Inches (mm)			
	A	B	C (Max.)	D
CMF50	0.150 ± 0.020 (3.81 ± 0.51)	0.065 ± 0.015 (1.65 ± 0.38)	0.187 (4.75)	0.016 ± 0.002 (0.41 ± 0.05)
CMF55	0.240 ± 0.020 (6.10 ± 0.51)	0.090 ± 0.008 (2.29 ± 0.20)	0.278 (7.06)	0.025 ±0.002 (0.64 ± 0.05)

Technical Specifications		
Series	**CMF50**	**CMF55**
Maximum Working Voltage	≤ 200V	≤ 250V
Insulation Voltage (1 min.)	> 500V_{eff}	> 500V_{eff}
Maximum Voltage Coefficient	±5ppm/Volt	±5ppm/Volt
Dielectric Strength	450VAC	450VAC
Insulation Resistance	≥10^{11}Ω	≥10^{11}Ω
Operating Temperature Range (°C)	-55 ~ 175	-55 ~ 175
Temperature Coefficient	50ppm	50ppm

CMF50 and CMF55 Series
Resistor Values

10.0	20.0	40.2	80.6	162	324	649	1.30K	2.61K	5.23K	10.5K	21.0K	42.2K	84.5K	169K	340K	681K	1.37M	2.74M
10.2	20.5	41.2	82.5	165	332	665	1.33K	2.67K	5.36K	10.7K	21.5K	43.2K	86.6K	174K	348K	698K	1.40M	2.80M
10.5	21.0	42.2	84.5	169	340	681	1.37K	2.74K	5.49K	11.0K	22.1K	44.2K	88.7K	178K	357K	715K	1.43M	2.87M
10.7	21.5	43.2	86.6	174	348	698	1.40K	2.80K	5.62K	11.3K	22.6K	45.3K	90.9K	182K	365K	732K	1.47M	2.94M
11.0	22.1	44.2	88.7	178	357	715	1.43K	2.87K	5.76K	11.5K	23.2K	46.4K	93.1K	187K	374K	750K	1.50M	3.01M
11.3	22.6	45.3	90.9	182	365	732	1.47K	2.94K	5.90K	11.8K	23.7K	47.5K	95.3K	191K	383K	768K	1.54M	3.09M
11.5	23.2	46.4	93.1	187	374	750	1.50K	3.01K	6.04K	12.1K	24.3K	48.7K	97.6K	196K	392K	787K	1.58M	3.16M
11.8	23.7	47.5	95.3	191	383	768	1.54K	3.09K	6.19K	12.4K	24.9K	49.9K	100K	200K	402K	806K	1.62M	3.24M
12.1	24.3	48.7	97.6	196	392	787	1.58K	3.16K	6.34K	12.7K	25.5K	51.1K	102K	205K	412K	825K	1.65M	3.32M
12.4	24.9	49.9	100	200	402	806	1.62K	3.24K	6.49K	13.0K	26.1K	52.3K	105K	210K	422K	845K	1.69M	3.40M
12.7	25.5	51.1	102	205	412	825	1.65K	3.32K	6.65K	13.3K	26.7K	53.6K	107K	215K	432K	866K	1.74M	3.48M
13.0	26.1	52.3	105	210	422	845	1.69K	3.40K	6.81K	13.7K	27.4K	54.9K	110K	221K	442K	887K	1.78M	3.57M
13.3	26.7	53.6	107	215	432	866	1.74K	3.48K	6.98K	14.0K	28.0K	56.2K	113K	226K	453K	909K	1.82M	3.65M
13.7	27.4	54.9	110	221	442	887	1.78K	3.57K	7.15K	14.3K	28.7K	57.6K	115K	232K	464K	931K	1.87M	3.74M
14.0	28.0	56.2	113	226	453	909	1.82K	3.65K	7.32K	14.7K	29.4K	59.0K	118K	237K	475K	953K	1.91M	3.83M
14.3	28.7	57.6	115	232	464	931	1.87K	3.74K	7.50K	15.0K	30.1K	60.4K	121K	243K	487K	976K	1.96M	3.92M
14.7	29.4	59.0	118	237	475	953	1.91K	3.83K	7.68K	15.4K	30.9K	61.9K	124K	249K	499K	1.00M	2.00M	4.02M
15.0	30.1	60.4	121	243	487	976	1.96K	3.92K	7.87K	15.8K	31.6K	63.4K	127K	255K	511K	1.02M	2.05M	4.12M
15.4	30.9	61.9	124	249	499	1.00K	2.00K	4.02K	8.06K	16.2K	32.4K	64.9K	130K	261K	523K	1.05M	2.10M	4.22M
15.8	31.6	63.4	127	255	511	1.02K	2.05K	4.12K	8.25K	16.5K	33.2K	66.5K	133K	267K	536K	1.07M	2.15M	4.32M
16.2	32.4	64.9	130	261	523	1.05K	2.10K	4.22K	8.45K	16.9K	34.0K	68.1K	137K	274K	549K	1.10M	2.21M	4.42M
16.5	33.2	66.5	133	267	536	1.07K	2.15K	4.32K	8.66K	17.4K	34.8K	69.8K	140K	280K	562K	1.13M	2.26M	4.53M
16.9	34.0	68.1	137	274	549	1.10K	2.21K	4.42K	8.87K	17.8K	35.7K	71.5K	143K	287K	576K	1.15M	2.32M	4.64M
17.4	34.8	69.8	140	280	562	1.13K	2.26K	4.53K	9.09K	18.2K	36.5K	73.2K	147K	294K	590K	1.18M	2.37M	4.75M
17.8	35.7	71.5	143	287	576	1.15K	2.32K	4.64K	9.31K	18.7K	37.4K	75.0K	150K	301K	604K	1.21M	2.43M	4.87M
18.2	36.5	73.2	147	294	590	1.18K	2.37K	4.75K	9.53K	19.1K	38.3K	76.8K	154K	309K	619K	1.24M	2.49M	4.99M
18.7	37.4	75.0	150	301	604	1.21K	2.43K	4.87K	9.76K	19.6K	39.2K	78.7K	158K	316K	634K	1.27M	2.55M	
19.1	38.3	76.8	154	309	619	1.24K	2.49K	4.99K	10.0K	20.0K	40.2K	80.6K	162K	324K	649K	1.30M	2.61M	
19.6	39.2	78.7	158	316	634	1.27K	2.55K	5.11K	10.2K	20.5K	41.2K	82.5K	165K	332K	665K	1.33M	2.67M	

Description	Wattage @ 70°C	Resistance Tolerance	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing			Digi-Key Part No.‡	Tape and Reel		Vishay Part No.
					1	10	50		Qty.	Pricing	
CMF50	0.25W	1%	10.0 ~ 100K	CMF(Value)QFCT-ND	.29	2.57	11.97	CMF(Value)QFTR-ND	1,000	187.00	CMF50xxxxxxFHEB
			102K ~ 499K	CMF(Value)QFCT-ND	.45	4.03	18.80	CMF(Value)QFTR-ND	1,000	298.00	CMF50xxxxxxFHEB
CMF55	0.50W	1%	10.0 ~ 1.00M	CMF(Value)HFCT-ND	.17	1.49	6.93	CMF(Value)HFTR-ND	1,000	105.00	CMF55xxxxxxFHEB
			1.02M ~ 4.99M	CMF(Value)HFCT-ND	.91	8.19	38.22	CMF(Value)HFTR-ND	1,000	612.00	CMF55xxxxxxFHEB

‡ For complete part number, substitute the value from Standard Resistor Values chart for (Value).

LVR Series Low Value Wirewound Resistors

Features:
- Ideal for all types of current sensing application including switching and linear power supplies, instruments, and power amplifiers
- Excellent load life stability
- Low temperature coefficient
- Low inductance
- Cooler operation for high power to size ratio
- MIL-PRF-49465 Type RLV
- Short Time Overload: 5X rated power for 5 seconds
- Operating Temperature Range: **LVR01 Series**: -65°C ~ 175°C; **LVR03 and LVR05 Series**: -65°C ~ 275°C

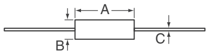

Series	Dimensions - mm		
	A	B (Max.)	C
LVR01	10.85	2.92	.508
LVR03	14.22	5.21	.813
LVR05	23.50	8.38	1.02

Resistance Values
LVR01, 1% LVRA

.01†	.033
.02	.05†
.025	.10◆
.03†	

Resistance Values
LVR03, 1%, LVRB

.005◆	.04
.01◆	.07◆
.015	.10◆
.02†	.15†
.025	.20†

Resistance Values
LVR05, 1%, LVRC

.005†	.04	.20
.01†	.05◆	.30
.015	.07◆	
.025	.10†	
.03†	.15	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.‡	Cut Tape Pricing			Digi-Key Part No.‡	Tape and Reel	
				1	10	50		Qty.	Pricing
LVR01, 1%, LVRA	1.0	.01 ~ .05	LVRA-(Value)CT-ND	1.56	14.04	65.52	LVRA-(Value)TR-ND	1,000	1054.00
LVR03, 1%, LVRB	3.0	.015 ~ .04	LVRB-(Value)CT-ND	1.66	14.94	69.72	LVRB-(Value)TR-ND	1,000	972.00
		.15 ~ .20	LVRB-(Value)CT-ND	1.39	12.47	58.17	LVRB-(Value)TR-ND	1,000	935.00
LVR05, 1%, LVRC	5.0	.005	LVRC-.005CT-ND	2.16	19.44	90.72	LVRC-(Value)TR-ND	500	713.00
		.01 ~ .04	LVRC-(Value)CT-ND	1.76	15.84	73.92	LVRC-(Value)TR-ND	500	630.00
		.10 ~ .30	LVRC-(Value)CT-ND	1.66	14.94	69.72	LVRC-(Value)TR-ND	500	594.00
RoHS Compliant									
LVR01, 1%, LVRA	1.0	.01 ~ .05	LVRA-(Value)RCT-ND	1.31	11.79	55.02	LVRA-(Value)RTR-ND	1,000	884.00
		.10	LVRA-.10RCT-ND	1.26	11.34	52.92	LVRA-(Value)RTR-ND	1,000	850.00
LVR03, 1%, LVRB	3.0	.005	LVRB-.005RCT-ND	1.51	13.59	63.42	LVRB-(Value)RTR-ND	1,000	1020.00
		.01 ~ .02	LVRB-(Value)RCT-ND	1.31	11.79	55.02	LVRB-(Value)RTR-ND	1,000	884.00
		.07 ~ .20	LVRB-(Value)RCT-ND	1.26	11.34	52.92	LVRB-(Value)RTR-ND	1,000	850.00
LVR05, 1%, LVRC	5.0	.005	LVRC-.005RCT-ND	1.81	16.29	76.02	LVRC-(Value)RTR-ND	500	648.00
		.01 ~ .03	LVRC-(Value)RCT-ND	1.61	14.49	67.62	LVRC-(Value)RTR-ND	500	576.00
		.05 ~ .10	LVRC-(Value)RCT-ND	1.51	13.59	63.42	LVRC-(Value)RTR-ND	500	540.00

‡ For complete part number, substitute the value from Standard Resistor Values chart for (Value). † Also available as ***RoHS Compliant***
◆ ***RoHS Compliant Only***

RWM Series – Enamelled Wirewound Power Resistors

3 and 7 Watt

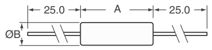

Series	Dimensions (mm) ±1 A	øB
RWM0410	12	5.5
RWM0622	18	6.5

Features:

- High dissipation
- High reliability level: Fire proof, excellent endurance, conformal vitreous enamel, great mechanical strength, good environmental protection, and all welded construction
- Low ohmic values

The performance of this series of professional resistors fully meets the requirements of the following specifications:

NF C 83-210-001

CECC 40201-001

BS-CECC 40201-002

Characteristics	
Temperature Coefficient	75ppm/°C Typical
Maximum Dissipation@ 70°C	RWM0410: 2.6W; RWM0622: 6W
Limiting Element Voltage	RWM0410: 120V; RWM0622: 350V
Resistance Tolerance	±5%

RWM04 Series
Resistance Value Chart

.10	1.5	15	120	820
.12	1.8	22	150	1.0K
.15	2.2	27	180	1.2K
.22	2.7	33	220	1.5K
.27	3.3	39	270	2.2K
.33	3.9	47	330	3.3K
.39	4.7	56	390	3.9K
.47	6.8	68	470	4.7K
1.0	8.2	82	560	10K
1.2	10	100	680	

RWM06 Series
Resistance Value Chart

.10	6.8	120	2.2K
.15	10	150	2.7K
.22	15	220	3.3K
.33	22	330	4.7K
.47	27	390	5.6K
1.0	33	470	6.8K
1.8	47	560	10K
2.2	56	680	15K
3.3	68	1.0K	18K
4.7	100	1.5K	

Description	Power Rating (W) @25°C	Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 5	200	Digi-Key Part No.†	Tape and Reel Qty.	Pricing	Vishay Part No.
RWM0410	3	.10 ~ .47	RWMA-(Value)CT-ND	15.77	240.70	RWMA-(Value)TR-ND	1,000	623.00	RWM0410xxxxJR15E1
		1.0 ~ 2.7K	RWMA-(Value)CT-ND	13.49	205.90	RWMA-(Value)TR-ND	1,000	533.00	RWM0410xxxxJR15E1
		3.3K ~ 4.7K	RWMA-(Value)CT-ND	19.48	297.25	RWMA-(Value)TR-ND	1,000	769.00	RWM0410xxxxJR15E1
		10K	RWMA-(Value)CT-ND	24.70	377.00	RWMA-(Value)TR-ND	1,000	975.00	RWM0410xxxxJR15E1
RWM0622	7	.10 ~ .47, 15K, 18K	RWMB-(Value)CT-ND	26.22	400.20	RWMB-(Value)TB-ND‡	1,000	800.00	RWM0622xxxxJA15E1
		1.0 ~ 10K	RWMB-(Value)CT-ND	18.15	276.95	RWMB-(Value)TB-ND‡	1,000	554.00	RWM0622xxxxJA15E1

† For complete part number, substitute value from Resistance Value Chart for (Value). ‡ Tape and Box

Heat Sink Mountable Thick Film Power Resistors

RTO 20F and RTO 50F (TO-220)

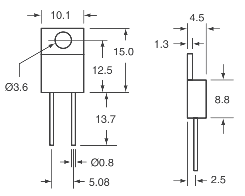

LTO 30F and LTO 50F (TO-220)

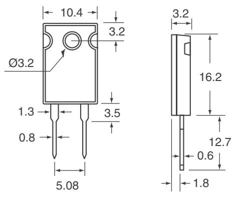

LTO 100F (TO-247)

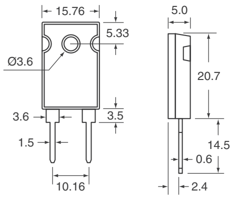

Series	Res. Tol.	Limiting Element Volt.	Dielectric Strength MIL STD 202	Insulation Resistance
RTO 20 **RTO 50**	±5% ±5%	250V 300V	2000VRMS, 1 minute, 10ma max. (Between terminal and heat sink)	$\geq 10^6$MΩ
LTO 30 **LTO 50** **LTO 100**	±5% ±5% ±5%	250V 250V 375V	1500VRMS, 1 minute, 10ma max. (Between terminal and heat sink)	$\geq 10^4$MΩ

RTO 20F Series
Resistance Value Chart

.010	2.2	1.0K
.015	4.7	2.2K
.046	10	4.7K
.068	22	10K
.10	47	100K
.20	100	1.0M
.47	220	
1.0	470	

RTO 50F Series
Resistance Value Chart

.050	2.0
.068	5.0
.10	10
.20	100
.50	1.0K
1.0	10K

LTO 30F Series
Resistance Value Chart

.010	.47	22
.015	1.0	47
.022	2.2	100
.047	4.7	1.0K
.050	5.0	10K
.068	10	
.10	15	

LTO 50F Series
Resistance Value Chart

.010	.47	22
.022	1.0	47
.047	2.2	100
.050	4.7	1.0K
.068	5.0	10K
.10	10	

LTO 100F Series
Resistance Value Chart

.015	4.7
.022	10
.047	15
.050	100
.10	1.0K
1.0	10K

Description	Nominal Power Rating (W) @ 25°C‡	Value Range (Ω)	Digi-Key Part No.†	Pricing 1	10	25	Vishay Part No.
RTO 20F	20	.010 ~ .046	RT20J-(Value)-ND	7.40	68.43	164.09	RTO020FxxxxxJTE3
		.068 ~ .10	RT20J-(Value)-ND	6.17	57.01	136.71	RTO020FxxxxxJTE3
		.20 ~ 4.7	RT20J-(Value)-ND	5.14	47.51	113.92	RTO020FxxxxxJTE3
		10 ~ 1.0M	RT20J-(Value)-ND	5.14	47.51	113.92	RTO020FxxxxxJTE3
RTO 50F	50	.050 ~ .068	RT50J-(Value)-ND	7.94	73.38	175.96	RTO050FxxxxxJTE1
		.10 ~ 5.0	RT50J-(Value)-ND	7.22	66.71	159.98	RTO050FxxxxxJTE1
		10 ~ 10K	RT50J-(Value)-ND	6.01	55.59	133.30	RTO050FxxxxxJTE1
LTO 30F	30	.010 ~ .022	LT30J-(Value)-ND	5.69	52.60	126.14	LTO030FxxxxxJTE3
		.047 ~ .10	LT30J-(Value)-ND	4.74	43.86	105.16	LTO030FxxxxxJTE3
		.47 ~ 10K	LT30J-(Value)-ND	3.95	36.53	87.60	LTO030FxxxxxJTE3
LTO 50F	50	.010 ~ .022	LT50J-(Value)-ND	6.94	64.12	153.75	LTO050FxxxxxJTE3
		.047 ~ .10	LT50J-(Value)-ND	5.78	53.43	128.13	LTO050FxxxxxJTE3
		.47 ~ 10K	LT50J-(Value)-ND	4.82	44.52	106.75	LTO050FxxxxxJTE3
LTO 100F	100	.015 ~ .022	LT100J-(Value)-ND	12.14	112.21	269.08	LTO100FxxxxxJTE3
		.047, .10	LT100J-(Value)-ND	9.71	89.79	215.32	LTO100FxxxxxJTE3
		.050	LT100J-(Value)-ND	10.68	98.76	236.82	LTO100FxxxxxJTE3
		1.0 ~ 10K	LT100J-(Value)-ND	8.09	74.82	179.42	LTO100FxxxxxJTE3

† For complete part number, substitute value from Resistance Value Chart for (Value). ‡ Heat sink mounted

VISHAY® Dale

HL Series Tubular Wirewound Resistors

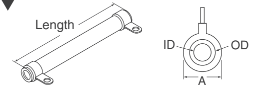

Features: • High temperature silicon coating • Complete welded construction • Excellent stability in operation (<3% change in resistance) • Operating Temperature Range: -55°C ~ 350°C

Series	Temperature Coefficient ppm/°C	Short Time Overload
HL025	1.0Ω ~ 5.0Ω/±50 10Ω ~ 50KΩ/±30	10X Rated Power for 5 Seconds
HL050	1.0Ω ~ 5.0Ω/±50 10Ω ~ 50KΩ/±30	
HL100	1.0Ω ~ 5.0Ω/±50 10Ω ~ 75KΩ/±30	
HL225	1.0Ω ~ 5.0Ω/±50 10Ω ~ 50KΩ/±30	

Resistance Values
HL025, 5%, HLA

1.0	10	150	750	5.0K	50K
2.0	25	200	1.0K	10K	
3.0	50	250	2.5K	12K	
5.0	100	500	4.0K	25K	

	Dimensions (mm)			
		Core Dimensions		
Series	A (Max.)	Length	OD	ID
HL025	17.46	50.80	14.29	7.94
HL050	17.46	101.60	14.29	7.94
HL100	23.02	165.10	19.05	12.7
HL225	33.34	266.70	28.58	19.05

Resistance Values
HL050, 5%, HLB

1.0	10	150	750	5.0K	50K
2.0	25	200	1.0K	10K	
3.0	50	250	2.5K	12K	
5.0	100	500	4.0K	25K	

Resistance Values
HL100, 5%, HLC

1.0	5.0	50	200	750	4.0K	25K
2.0	10	100	250	1.0K	5.0K	50K
3.0	25	150	500	2.5K	10K	75K

Resistance Values
HL225, 5%, HLD

1.0	5.0	50	200	750	4.0K	25K
2.0	10	100	250	1.0K	5.0K	50K
3.0	25	150	500	2.5K	10K	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Price Each 1	10	25
HL025, 5%, HLA	25	1.0 ~ 5.0K	HLA-(Value)-ND	2.37	2.15	1.94
		10K	HLA-10K-ND	2.75	2.50	2.25
		12K ~ 25K	HLA-(Value)-ND	2.97	2.70	2.43
		50K	HLA-50K-ND	6.38	5.80	5.22
HL050, 5%, HLB	50	1.0 ~ 2.5K	HLB-(Value)-ND	3.74	3.40	3.06
		4.0K ~ 12K	HLB-(Value)-ND	3.77	3.43	3.09
		25K	HLB-25K-ND	4.02	3.65	3.29
		50K	HLB-50K-ND	5.17	4.70	4.23
HL100, 5%, HLC	100	1.0 ~ 1.0K	HLC-(Value)-ND	7.15	6.50	5.85
		2.5K ~ 25K	HLC-(Value)-ND	7.48	6.80	6.12
		50K ~ 75K	HLC-(Value)-ND	8.20	7.45	6.71
HL225, 5%, HLD	225	1.0 ~ 50K	HLD-(Value)-ND	12.90	11.73	10.56
Mounting Bracket for HL025, HL050			BRACKET203-ND‡	1.26/2	4.20/10	15.75/50
Mounting Bracket for HL100........................			BRACKET206-ND‡	1.71/2	5.70/10	21.38/50
Mounting Bracket for HL225........................			BRACKET205-ND‡	1.89/2	6.30/10	23.63/50

◊ For complete part number, substitute value from Resistance Value Chart for (Value). ‡ Requires 2 brackets per resistor.

HLT225 Series Tapped Tubular Wirewound Resistors

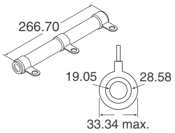

Features: • Fixed taps for voltage dividers • High temperature silicon coating • Complete welded construction • Excellent stability in operation (<3% change in resistance) • Can be used as multi-tap resistor • Operating Temperature Range: -55°C ~ 350°C

Series	Temperature Coefficient (ppm/°C)	Short Time Overload
HLT225	10Ω ~ 1.0K/±30	10X Rated Power for 5 Seconds

Resistance Values
HLT225, 10%, HLTA

10	50	250	1.0K
25	100	500	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Price Each 1	10	25
HLT225, 10%, HLTA	225	10 ~ 1.0K	HLTA-(Value)-ND	15.84	14.40	12.96
Mounting Bracket for HLT-225			BRACKET205-ND‡	1.89/2	6.30/10	23.63/50

◊ For complete part number, substitute value from Resistance Value Chart for (Value). ‡ Requires 2 brackets per resistor.

HLW Series Tubular Wirewound Resistors

Features: • High temperature silicon coating • Complete welded construction • Excellent for intermittent power and pulsing applications • Excellent stability in operation (<3% change in resistance) • Operating Temperature Range: -55°C ~ 350°C

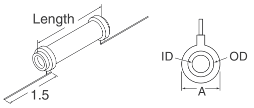

	Dimensions (mm)			
		Core Dimensions		
Series	A (Max.)	Length	OD	ID
HLW12	10.32	44.45	7.94	4.76
HLW20	14.29	50.80	11.11	7.94

Resistance Values
HLW12, 5%,
HLWA

10
20
1.0K

Resistance Values
HLW20, 5%,
HLWB

5.0	100	100K
10	20K	
50	50K	

Series	Temperature Coefficient (ppm/°C)	Short Time Overload
HLW12	10Ω ~ 1.0K/±30	10X Rated Power for 5 Seconds
HLW20	5.0Ω/±50 10Ω ~ 100KΩ/±30	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Price Each 1	10	25
HLW12, 5%, HLWA	12	10 ~ 1.0K	HLWA-(Value)-ND	2.28	2.08	1.87
HLW20, 5%, HLWB	20	5.0 ~ 20K	HLWB-(Value)-ND	3.38	3.08	2.77
HLW20, 5%, HLWB		50K ~ 100K	HLWB-(Value)-ND	3.52	3.20	2.88

◊ For complete part number, substitute value from Resistance Value Chart for (Value).

HLZ 300 Series Edgewound Wirewound Resistors

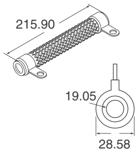

Features:

- High temperature silicon coating • Complete welded construction • Excellent for intermittent power and pulsing applications • Designed to meet heavy-duty requirement where space is at a premium • Excellent stability in operation (<3% change in resistance)
- Operating Temperature Range: -55°C ~ 350°C

Resistor Values
HLZ300, 10%, HLZA

.30	5.0	16
1.0	8.0	20
1.5	12	25

Series	Temperature Coefficient ppm/°C	Short Time Overload
HLZ300	.30Ω/±90 1.0Ω ~ 8.0Ω/±50 12Ω ~ 25Ω/±30	10X Rated Power for 5 Seconds

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Price Each 1	10	25
HLZ300, 10%, HLZA	300	.30 ~ 25	HLZA-(Value)-ND	19.17	17.43	15.69
Mounting Bracket for HLZ-300.........................			BRACKET205-ND‡	1.89/2	6.30/10	23.63/50

◊ For complete part number, substitute value from Resistance Value Chart for (Value). ‡ Requires 2 brackets per resistor.

RH Series Aluminum Housed Wirewound Resistors

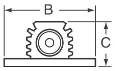

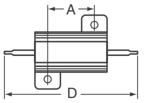

Specifications:

- Terminals: Copper clad steel core • Terminal finish: Tin/Lead 60/40 Sn/Pb with nickel underplate; Lead free Ni/Pd/Au • Operating Temperature Range: -55°C ~ 250°C

Features:

- Molded construction for total environmental protection • Complete welded construction
- Meets applicable requirements of MIL-PRF-18546 • Mounts on chassis to utilize heat-sink effect • Excellent stability in operation (<1% change in resistance)

Series	Dimensions (mm) A	B	C	D	Temperature Coefficient (ppm/°C)	Short Time Overload
RH005	11.28	16.41	8.13	28.58	.10Ω ~ .50Ω / ±100 1.0Ω ~ 5.0Ω / ±50 10Ω ~ 15KΩ / ±20	5X Rated Power for 5 Seconds
RH010	14.27	20.32	9.91	34.93	.20Ω / ±100 1.0Ω ~ 2.0Ω / ±50 10Ω ~ 25KΩ / ±20	
RH025	18.26	27.43	13.87	49.23	.10Ω / ±100 1.0Ω ~ 3.0Ω / ±50 12Ω ~ 3KΩ / ±20	
RH050	39.67	28.96	15.49	70.64	.15Ω ~ .50 / ±100 1.0Ω ~ 8.0Ω / ±50 10Ω ~ 2.5KΩ / ±20	

Resistance Values
RH005, 1%, RHA

.10◆	10	100	2.0K
.50◆	12	150◆	10K
1.0◆	25	300◆	15K◆
5.0◆	30◆	390◆	

Resistance Values
RH010, 1%, RHB

.20	25◆	75◆	332◆	10K◆
1.0◆	33◆	100◆	1.0K◆	25K◆
2.0◆	35◆	300◆	2.0K	
10◆	50◆	330	2.5K	

Resistance Values
RH025, 1%, RHC

.10◆	15	100◆	1.0K◆
1.0◆	20◆	200◆	3.0K◆
3.0◆	25◆	300	
12	40	500◆	

Resistance Values
RH050, 1% RHD

.15	.50◆	2.5◆	8.0◆	20	250◆	2.5K◆
.20	1.0	3.3◆	10◆	30	300◆	
.25	1.5◆	5.0◆	12◆	40◆	500◆	
.30	2.0◆	6.0	16	100◆	1.0K	

Description	Power Rating (W)	Value Range (Ω)	Digi-Key Part No.◊	Price Each 1	10	50
RH005, 1%, RHA	5 (7.5)‡	10 ~ 25, 100, 2.0K	RHA-(Value)-ND	3.58	3.22	3.01
		10K	RHA-10K-ND	3.55	3.20	2.99
RH010, 1%, RHB	10 (12.5)‡	.20, 330	RHB-(Value)-ND	7.05	6.35	5.93
		2.0K, 2.5K	RHB-(Value)-ND	2.63	2.37	2.21
RH025, 1%, RHC	25	12, 15, 40, 300	RHC-(Value)-ND	4.15	3.74	3.49
RH050, 1%, RHD	50	.15 ~ .30	RHD-(Value)-ND	9.78	8.80	8.22
		1.0, 6.0, 16~30, 1.0K	RHD-(Value)-ND	5.10	4.59	4.29
RoHS Compliant						
RH005, 1%, RHA	5 (7.5)‡	.10 ~ .50	RHRA-(Value)-ND	3.45	3.11	2.90
		1.0 ~ 390	RHRA-(Value)-ND	3.25	2.93	2.73
		2.0K ~ 10K	RHRA-(Value)-ND	3.23	2.91	2.71
		15K	RHRA-15K-ND	3.38	3.04	2.84
RH010, 1%, RHB	10 (12.5)‡	.20	RHRB-.20-ND	6.40	5.76	5.38
		1.0 ~ 1.0K	RHRB-(Value)-ND	2.28	2.05	1.92
		2.0K ~ 10K	RHRB-(Value)-ND	2.38	2.14	2.00
		25K	RHRB-25K-ND	3.28	2.95	2.76
RH025, 1%, RHC	25	.10	RHRC-.10-ND	7.23	6.51	6.07
		1.0 ~ 1.0K	RHRC-(Value)-ND	3.78	3.40	3.18
		3.0K	RHRC-3.0K-ND	3.03	2.73	2.55
RH050, 1%, RHD	50	.15 ~ .50	RHRD-(Value)-ND	8.88	7.99	7.46
		1.0 ~ 1.0K	RHRD-(Value)-ND	4.63	4.17	3.89
		2.5K	RHRD-2.5K-ND	3.93	3.54	3.30

◊ For complete part number, substitute value from Resistance Value Chart for (Value). ◆ ***RoHS Compliant Only***
‡ Power rating indicates wattage printed on parts, new construction allows these resistors to be rated at higher wattage (listed in parenthases) but will only be printed with the higher wattage on customer request.

CADDOCK *ELECTRONICS, INC.*

MP Series TO-Style Power Film Resistors 15 Watts to 100 Watts

Features: • Non-Inductive design, ideal for Power Switching Circuits, Snubbers, Power Supplies, Industrial Controls, etc. • Values as low as 0.005Ω ideal for Current Sensing • **RF Applications:** 50Ω performance up to 500MHz • Resistor element electrically isolated from the mounting surface • **Dielectric Withstanding Voltage:** 1500VAC • **Insulation Resistance:** 10,000 MΩ minimum

Dimensions in Inches (mm)

MP915 — TO-126 Style, Case A

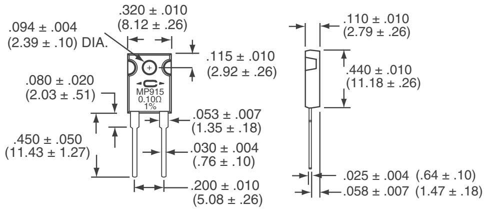

MP820 and MP821 — TO-220 Metal Tab Style, Case B

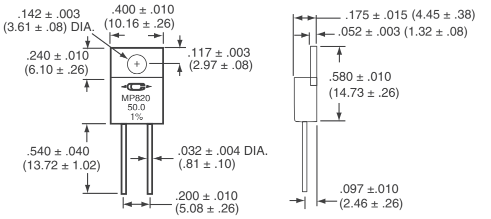

MP9100 — TO-247 Style, Case E

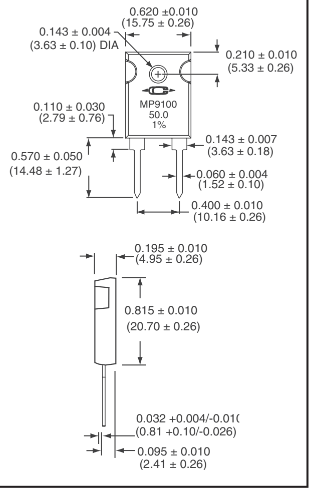

MP916, MP925 and MP930 — TO-220 Style, Case C

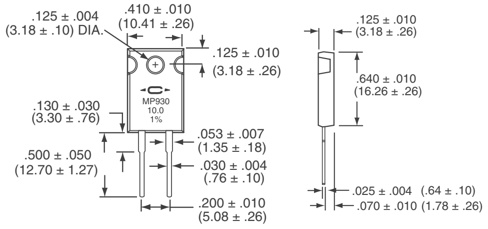

MP2060 — TO-220 Clip Mount Style, Case D

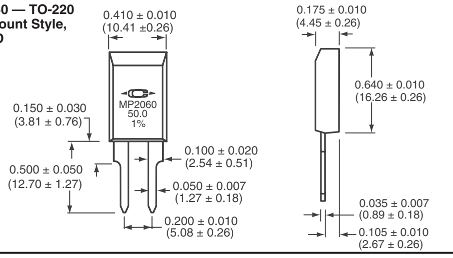

Power Ratings are based on 25°C case temperature. The case temperature is used to establish the maximum applied power, see Derating Curve. The case temperature measurement is made with a thermocouple contacting the bottom mounting surface of the package (center of heat dissipating surface), with the device mounted on the heat sink with thermal grease or thermal interface material.

Mounting Note: Mount on a smooth, clean, and flat heat sink surface with a thermal interface material such as thermal grease. The entire heat dissipating surface area must be in contact with the heat sink.

Screw Mounting: Mount with a compression washer (Belleville) that provides a force of 150 ~ 300 pounds. The maximum mounting torque to avoid damage to the package is 6 in-lbs (TO-126), 8 in-lbs (TO-220 and TO-247).

Clip Mounting: Recommended Clip Force is 8 ~ 30 pounds applied to the center of the package. The clip should be smooth to avoid any point concentrations of pressure. ***For additional information see the application notes online @ www.caddock.com***

Temperature Coefficient:	
MP915, MP916, MP925, MP930: ΔR taken at 150°C, ref. to 25°C	
0.50Ω ~ 100K: -20 ~ +80ppm/°C	0.050Ω ~ 0.49Ω: 0 ~ +200ppm/°C
0.020Ω ~ 0.049Ω: 0 ~ +300ppm/°C	0.010Ω ~ 0.019Ω: 0 ~ +500ppm/°C
MP820 and MP821: ΔR taken at 175°C, ref. to 25°C	
5.00Ω ~ 10.0KΩ: -20 ~ +50ppm/°C	0.50Ω ~ 4.99Ω: -20 ~ +80ppm/°C
0.050Ω ~ 0.49Ω: 0 ~ +200ppm/°C	0.020Ω ~ 0.049Ω: 0 ~ +300ppm/°C
MP2060: ΔR taken at 150°C, ref. to 25°C	
0.50Ω ~ 1.00KΩ: -20 ~ +80ppm/°C	0.050Ω ~ 0.49Ω: 0 ~ +100ppm/°C
0.015Ω ~ 0.049Ω: 0 ~ +200ppm/°C	0.005Ω ~ 0.014Ω: 0 ~ +300ppm/°C
MP9100: ΔR taken at 175°C, ref. to 25°C	
0.50Ω ~ 100Ω: -20 ~ +80ppm/°C	0.050Ω ~ 0.49Ω: 0 ~ +150ppm/°C

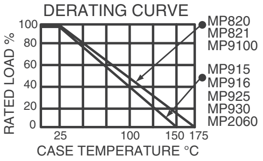

Resistance Values MP820

10.0	75.0	1.00K
20.0	100	2.00K
25.0	200	5.00K
50.0	500	10.0K

Resistance Values MP821

0.020	0.20	2.00
0.050	0.50	5.00
0.10	1.00	

Resistance Values MP915

0.020	2.00	75.0
0.050	5.00	100
0.10	10.0	200
0.20	20.0	500
0.50	25.0	1.00K
1.00	50.0	

Resistance Values MP930

0.020	2.00	75.0
0.050	5.00	100
0.10	10.0	200
0.20	20.0	500
0.50	25.0	1.00K
1.00	50.0	2.00K

Resistance Values MP925

5.00K	20.0K	100K
10.0K	50.0K	

Resistance Values MP2060

0.005	1.00	75.0
0.010	2.00	100
0.020	5.00	200
0.050	10.0	500
0.10	20.0	1.00K
0.20	25.0	
0.50	50.0	

Resistance Values MP9100

0.050	1.00	20.0	100
0.10	2.00	25.0	
0.20	5.00	50.0	
0.50	10.0	75.0	

Caddock Model	Case Type	Power Rating @ 25°C Case Temperature	Thermal Resistance	Maximum Continuous Operating Voltage	Range Ω	Tolerance %	Digi-Key Part No.◊	Price Each			
								1	10	25	50
MP915	A	15 Watts	8.33°C/Watt	200 Volts rms AC or Limited by sqrt(PxR)	0.020	5	MP915-0.020J-ND◆	4.43	3.94	3.45	3.15
MP915	A	15 Watts	8.33°C/Watt		0.050	1	MP915-0.050F-ND◆	4.43	3.94	3.45	3.15
MP915	A	15 Watts	8.33°C/Watt		0.10 ~ 0.50	1	MP915-(Value)F-ND◆	3.24	2.88	2.52	2.30
MP915	A	15 Watts	8.33°C/Watt		1.00 ~ 5.00	1	MP915-(Value)F-ND◆	3.08	2.74	2.40	2.19
MP915	A	15 Watts	8.33°C/Watt		10.0 ~ 1.00K	1	MP915-(Value)F-ND◆	2.77	2.46	2.15	1.97
MP821	B	20 Watts	7.50°C/Watt	300 Volts rms AC or Limited by sqrt(PxR)	0.020 ~ 0.050	1	MP821-(Value)F-ND	8.69	7.72	6.76	6.18
MP821	B	20 Watts	7.50°C/Watt		0.10 ~ 0.50	1	MP821-(Value)F-ND	8.69	7.72	6.76	6.18
MP821	B	20 Watts	7.50°C/Watt		1.00 ~ 5.00	1	MP821-(Value)F-ND	7.44	6.62	5.80	5.31
MP820	B	20 Watts	7.50°C/Watt		10.0 ~ 10.0K	1	MP820-(Value)F-ND	5.76	5.12	4.49	4.10
MP916	C	16 Watts	7.81°C/Watt	sqrt(PxR)	0.010	5	MP916-0.010J-ND◆	6.89	6.12	5.36	4.90
MP930	C	30 Watts	4.17°C/Watt	250 Volts rms AC or Limited by sqrt(PxR)	0.020	5	MP930-0.020J-ND◆	5.63	5.00	4.38	4.00
MP930	C	30 Watts	4.17°C/Watt		0.050	1	MP930-0.050F-ND◆	5.63	5.00	4.38	4.00
MP930	C	30 Watts	4.17°C/Watt		0.10 ~ 0.50	1	MP930-(Value)F-ND◆	4.14	3.68	3.22	2.95
MP930	C	30 Watts	4.17°C/Watt		1.00 ~ 5.00	1	MP930-(Value)F-ND◆	3.94	3.50	3.07	2.80
MP930	C	30 Watts	4.17°C/Watt		10.0 ~ 2.00K	1	MP930-(Value)F-ND◆	3.51	3.12	2.74	2.50
MP925	C	25 Watts	5.00°C/Watt	500 Volts	5.00K ~ 100K	1	MP925-(Value)F-ND◆	3.53	3.14	2.75	2.51
MP2060	D	18 Watts	6.94°C/Watt	250 Volts rms AC or Limited by sqrt(PxR)	0.005	5	MP2060-0.005J-ND◆	9.83	8.74	7.65	7.00
MP2060	D	36 Watts	3.47°C/Watt		0.010	2	MP2060-0.010G-ND◆	9.36	8.32	7.28	6.66
MP2060	D	60 Watts	2.08°C/Watt		0.020 ~ 0.050	1	MP2060-(Value)F-ND◆	9.36	8.32	7.28	6.66
MP2060	D	60 Watts	2.08°C/Watt		0.10 ~ 0.50	1	MP2060-(Value)F-ND◆	8.34	7.42	6.49	5.94
MP2060	D	60 Watts	2.08°C/Watt		1.00 ~ 5.00	1	MP2060-(Value)F-ND◆	7.16	6.36	5.57	5.09
MP2060	D	60 Watts	2.08°C/Watt		10.0 ~ 1.00K	1	MP2060-(Value)F-ND◆	6.63	5.96	5.57	5.04
MP9100	E	100 Watts	1.50°C/Watt	Limited by sqrt(PxR)	0.050	1	MP9100-0.050F-ND◆	12.49	11.10	9.72	8.88
MP9100	E	100 Watts	1.50°C/Watt		0.10 ~ 0.50	1	MP9100-(Value)F-ND◆	11.90	10.58	9.27	8.46
MP9100	E	100 Watts	1.50°C/Watt		1.00 ~ 5.00	1	MP9100-(Value)F-ND◆	11.01	9.78	8.56	7.83
MP9100	E	100 Watts	1.50°C/Watt		10.0 ~ 20.0	1	MP9100-(Value)F-ND◆	10.08	8.96	7.84	7.17
MP9100	E	100 Watts	1.50°C/Watt		25.0 ~ 100	1	MP9100-(Value)F-ND◆	9.16	8.14	7.13	6.52

◊ For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value). ◆ ***RoHS Compliant***

SEI
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Resistive Product Solutions

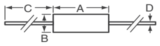

MR Series – Low Resistance Value Molded 2 Leads Resistors

Resistance Value Chart

0.005	0.025	0.075
0.01	0.03	0.1
0.02	0.05	

Type	Dimensions (mm) A	B	C	D
MR3	14.2	5.2	34.9	0.81
MR5	23.5	8.4	34.9	0.91

Features:
- Metal element resistors • Excellent load life stability • Inherently non-inductive
- Tinned copper leads • Low temperature coefficient • High power to size ratio
- Molded bodies for exceptional automated placement.

Electrical Specifications:
- Maximum Voltage: 500V • Temperature Coefficient: 50 ~ 400ppm/°C

Resistance Range (Ω)	Watt-age	Toler-ance	Digi-Key Part No.§	Cut Tape Price Each 1	10	25	Digi-Key Part No.§	Tape and Reel Pricing 500	750	1,000	1,500
0.005 ~ 0.1	3	1%	MR3-(Value)FCT-ND	3.07	2.13	1.97	MR3-(Value)FTR-ND	—	427.50	—	523.00/M
0.005 ~ 0.1	5	1%	MR5-(Value)FCT-ND	3.59	2.49	2.30	MR5-(Value)FTR-ND	368.00	—	612.00	—

§ For complete part number, substitue value from Resistance Value Chart for (Value).

MPR Series – Flameproof Metal Plate Resistors

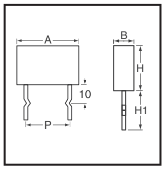

Resistance Value Chart

0.01	0.05
0.02	0.075
0.025	0.1
0.03	

Type	Dimensions (mm) A	B	H	H1	P
MPR3	14	5	13	14	10
MPR5	14	5	18	14	10

Features:
- Small size with high power ratio • Low resistance values and low inductance • Crimped leads keep circuit board temperature cooler

Electrical Specifications:
- Maximum Voltage: 350V • Temperature Coefficient: 350ppm/°C

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.§	Price Each 1	10	25
0.01 ~ 0.1	3	5%	MPR3-(Value)J-ND	.79	.58	.54
0.01 ~ 0.1	5	5%	MPR5-(Value)J-ND	.88	.64	.60

§ For complete part number, substitue value from Resistance Value Chart for (Value).

TR Series – Power Resistors

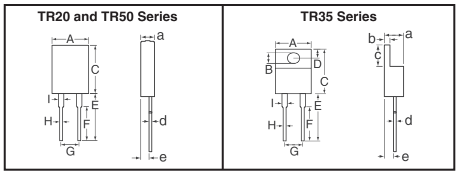
TR20 and TR50 Series
TR35 Series

Features: • TO-220 style • Molded case for environmental protection • Operating temperature range: -65°C ~ 150°C • Maximum Voltage: 350V

Resistance Value Chart

TR20

0.05	3.3	47
0.1	4.7	51
0.25	7.5	62
0.5	10	75
1	15	100
1.5	22	
2.2	33	

TR35

1	10	62
1.5	15	75
2.2	22	100
3.3	33	
4.7	47	
7.5	51	

TR50

0.05	3.3	47
0.1	4.7	51
0.25	7.5	62
0.5	10	75
1	15	100
1.5	22	
2.2	33	

Type	Dimensions – mm (maximum) A	B	C	D	E	F	G	H	I	a	b	c	d	e
TR20	10.67	–	16.52	–	13.97	4.06	5.34	0.86	1.40	3.44	–	–	0.60	2.04
TR35	10.41	3.75	15.00	3.05	14.70	4.00	5.33	0.86	1.37	4.82	1.40	6.35	0.70	2.52
TR50	10.67	–	16.52	–	13.97	4.06	5.34	0.86	1.40	3.44	–	–	0.60	2.04

Electrical Thermal Characteristics

	TR20	TR35	TR50
Free Air Power Rating	3W in free air at 25°C	2.5W in free air at 25°C	3W in free air at 25°C

Resistance Range (Ω)	Wattage	Tolerance	TCR	Digi-Key Part No.§	Price Each 1	10	25
0.05 ~ 1	20 Watt	5%	—	TR20-(Value)J-ND	3.78	2.82	2.64
1.5 ~ 4.7	20 Watt	5%	±200ppm	TR20-T0-(Value)J-ND	3.78	2.82	2.64
7.5 ~ 10	20 Watt	5%	±100ppm	TR20-T1-(Value)J-ND	3.78	2.82	2.64
15 ~ 100	20 Watt	5%	±50ppm	TR20-T2-(Value)J-ND	3.78	2.82	2.64
1	35 Watt	5%	—	TR35-(Value)J-ND	3.78	2.82	2.64
1.5 ~ 4.7	35 Watt	5%	±200ppm	TR35-T0-(Value)J-ND	3.78	2.82	2.64
7.5 ~ 10	35 Watt	5%	±100ppm	TR35-T1-(Value)J-ND	3.78	2.82	2.64
15 ~ 100	35 Watt	5%	±50ppm	TR35-T2-(Value)J-ND	3.78	2.82	2.64
0.05 ~ 1.5	50 Watt	5%	—	TR50-(Value)J-ND	4.10	3.06	2.86
2.2 ~ 4.7	50 Watt	5%	±200ppm	TR50-T0-(Value)J-ND	4.10	3.06	2.86
7.5 ~ 10	50 Watt	5%	±100ppm	TR50-T1-(Value)J-ND	4.10	3.06	2.86
15 ~ 100	50 Watt	5%	±50ppm	TR50-T2-(Value)J-ND	4.10	3.06	2.86

§ For complete part number, substitue value from Resistance Value Chart for (Value).

NEW! CF and CD Series — Carbon Film Resistors

CF Series Features: • Ideal for commercial / industrial applications • Flame retardant coating • Auto sequencing / insertion compatible

CD Series Features: • Ideal for crossovers or jumpers on circuit boards with auto-insertion capability • High current rating

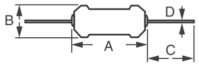

Type	Dimensions (mm) A	B	C	D
CF1/4	6.5 ±0.5	2.3 ±0.2	28.0 ±3.0	0.56 ±0.05
CF1/2	8.5 ±0.5	2.7 ±0.5	28.0 ±3.0	0.6 ±0.05
CD	6.0 ±0.3	2.3 ±0.2	28.0 ±2.0	0.55 ±0.03

Resistance Value Chart for CF1/4 and CF1/2 Series

1	24	56	180	390	820	1.8K	3.9K	8.2K	30K	82K	240K	680K	5.6M
10	27	62	200	430	910	2K	4.3K	10K	33K	91K	270K	1M	10M
12	30	68	220	470	1K	2.2K	4.7K	12K	39K	100K	330K	1.2M	
15	33	75	240	510	1.1K	2.4K	5.1K	15K	47K	120K	390K	2.2M	
16§	39	82	270	560	1.2K	2.7K	5.6K	18K	56K	150K	430K	3.3M	
18	43	100	300	620	1.3K	3K	6.2K	20K	62K	180K	470K	3.9M	
20	47	120	330	680	1.5K	3.3K	6.8K	22K	68K	200K	510K	4.7M	
22	51	150	360	750	1.6K	3.6K	7.5K	27K	75K	220K	560K	5.1M	

§ Not available in CF1/4 Series

Additional Resistance Values for CF1/4 Series

36	9.1K	36K	160K	820K	1.8M	4.3M
91	11K	43K	300K	910K	2M	6.8M
110	13K	51K	360K	1.1M	2.4M	7.5M
130	16K	110K	620K	1.3M	2.7M	8.2M
160	24K	130K	750K	1.5M	3M	9.1M

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.‡	Cut Tape Pricing 10	25	100	Digi-Key Part No.‡	Tape and Reel Pricing 5,000
1 ~ 10M	0.25	5%	CF1/4(Value)5%RCT-ND	.18	.41	1.32	CF1/4(Value)5%RTR-ND	6.00/M
1 ~ 10M	0.5	5%	CF1/2(Value)5%RCT-ND	.26	.61	1.96	CF1/2(Value)5%RTR-ND	9.00/M
0	—	—	CD1/40RCT-ND	.18	.41	1.32	CD1/40RTR-ND	6.00/M

‡ For complete part number, substitute value from Resistance Value Chart for (Value).

KAL Series – Aluminum Housed Axial Lead Wire Wound Resistors

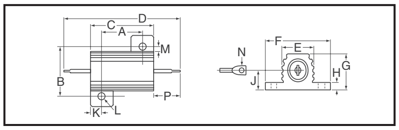

Features: • Aluminum housing for maximum heat dissipation • Complete welded construction • 10 ~ 50W tinned copper terminals • Temperature Coefficient: ±100ppm below 0.1Ω, ±50ppm from 0.1Ω ~ 9.9Ω, ±30ppm from 10Ω ~ 49Ω, ±20ppm above 50Ω

Type	Dimensions in mm (maximum) A	B	C	D	E	F	G	H	J	K	L	M	N	P
KAL10	14.3	15.9	19.0	34.9	10.7	20.3	9.9	1.9	4.8	2.4	2.4	2.6	2.2	7.9
KAL25	18.3	19.8	27.0	49.2	14.0	27.4	13.9	2.2	6.6	4.4	3.2	2.9	2.2	11.1
KAL50	39.7	21.4	50.0	70.6	16.0	29.0	15.5	2.2	7.6	5.0	3.2	2.7	2.2	10.4

Resistance Value Chart

KAL10

1	250
5	1K
10	2.5K
20	5K
50	

KAL25

1	20	1K
2	25	1.5K
3	50	3K
5	75	10K
10	100	
15	250	

KAL50

1	10	50
1.5	15	100
2	20	300
3	25	1K
5	30	1.5K
6	35	

Resistance Range (Ω)	Wattage	Tolerance	Dielectric Withstanding Voltage	Digi-Key Part No.	Price Each 1	10	25
1 ~ 1K	12.5 Watt	1%	1,000	KAL10-(Value)F-ND	2.80	2.12	1.92
2.5K ~ 5K	12.5 Watt	1%	1,000	KAL10-(Value)F-ND	2.91	2.20	2.00
1 ~ 3K	25 Watt	1%	2,500	KAL25-(Value)F-ND	3.47	2.59	2.42
10K	25 Watt	1%	2,500	KAL25-(Value)F-ND	3.78	2.82	2.64
1 ~ 1.5K	50 Watt	1%	2,500	KAL50-(Value)F-ND	4.10	3.06	2.86

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Resistive Product Solutions

CSR/CSRN Series – Thick Film Current Sensing Resistors

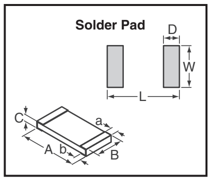

Features:

- Power ratings to 3 Watts
- Low inductance – less than 0.2nH typically

Type	Size Code	Dimensions – mm (maximum)							
		A	B	C	a	b	L	W	D
CSR1/2	1206	3.20	1.803	0.66	0.814	0.66	4.00	2.00	1.80
CSRN1	2010	5.156	2.692	0.712	0.915	0.762	6.35	3.68	1.40
CSRN2	2512	6.40	3.225	0.686	0.889	0.762	8.00	4.00	1.40

Resistance Value Chart

CSR1/2	
0.01	0.1
0.012	0.2
0.015	0.25
0.02	0.3
0.025	0.33
0.03	0.5
0.05	0.75
0.075	1

CSRN1		
0.01	0.06	0.4
0.015	0.075	0.5
0.02	0.1	0.75
0.025	0.15	
0.03	0.2	
0.04	0.25	
0.05	0.3	

CSRN2		
0.01	0.068	0.33
0.015	0.075	0.4
0.02	0.1	0.47
0.025	0.15	0.5
0.03	0.2	0.68
0.04	0.25	0.75
0.05	0.3	

Resistance Range (Ω)	Wattage	Tolerance	TCR	Digi-Key Part No.§	Cut Tape Price Each 1	10	25	Digi-Key Part No.§	Tape and Reel Pricing 1,000
0.01 ~ 0.02	0.5	1%	±100 ppm/°C	CSR1/2(Value)1%ICT-ND	.78	.54	.50	CSR1/2(Value)1%ITR-ND	140.00
0.025 ~ 0.05	0.5	1%	±100 ppm/°C	CSR1/2(Value)1%ICT-ND	.70	.49	.45	CSR1/2(Value)1%ITR-ND	126.00
0.075 ~ 0.1	0.5	1%	±100 ppm/°C	CSR1/2(Value)1%ICT-ND	.62	.44	.40	CSR1/2(Value)1%ITR-ND	112.00
0.2 ~ 0.33	0.5	1%	±100 ppm/°C	CSR1/2(Value)1%ICT-ND ***NEW!***	.39	.27	.25	CSR1/2(Value)1%ITR-ND ***NEW!***	80.00
0.5 ~ 1	0.5	1%	±100 ppm/°C	CSR1/2(Value)1%ICT-ND ***NEW!***	.23	.17	.15	CSR1/2(Value)1%ITR-ND ***NEW!***	54.00
0.01 ~ 0.02	1	1%	±250 ppm/°C	CSRN1(Value)1%ICT-ND	1.09	.76	.70	CSRN1 (Value)1%ITR-ND	189.00
0.025 ~ 0.05	1	1%	±250 ppm/°C	CSRN1 (Value)1%ICT-ND	1.01	.71	.65	CSRN1 (Value)1%ITR-ND	176.00
0.06 ~ 0.1	1	1%	±250 ppm/°C	CSRN1 (Value)1%ICT-ND	.94	.65	.60	CSRN1 (Value)1%ITR-ND	168.00
0.15 ~ 0.4	1	1%	±250 ppm/°C	CSRN1 (Value)1%ICT-ND ***NEW!***	.70	.49	.45	CSRN1 (Value)1%ITR-ND ***NEW!***	126.00
0.5 ~ 0.75	1	1%	±250 ppm/°C	CSRN1 (Value)1%ICT-ND ***NEW!***	.55	.38	.35	CSRN1 (Value)1%ITR-ND ***NEW!***	98.00
0.01 ~ 0.02	2	1%	±200 ppm/°C	CSRN2(Value)1%ICT-ND	1.25	.87	.80	CSRN2(Value)1%ITR-ND	216.00
0.025 ~ 0.05	2	1%	±200 ppm/°C	CSRN2(Value)1%ICT-ND	1.01	.71	.65	CSRN2(Value)1%ITR-ND	176.00
0.068 ~ 0.1	2	1%	±200 ppm/°C	CSRN2(Value)1%ICT-ND	.94	.65	.60	CSRN2(Value)1%ITR-ND	168.00
0.15 ~ 0.47	2	1%	±200 ppm/°C	CSRN2(Value)1%ICT-ND ***NEW!***	.78	.54	.50	CSRN2(Value)1%ITR-ND ***NEW!***	140.00
0.5 ~ 0.75	2	1%	±200 ppm/°C	CSRN2(Value)1%ICT-ND ***NEW!***	.47	.33	.30	CSRN2(Value)1%ITR-ND ***NEW!***	96.00

§ For complete part number, substitue value from Resistance Value Chart for (Value).

NEW! CSRF Series – Foil on Ceramic Current Sensing Resistors

Features:

- Low inductance – typically less than 0.2nH
- TCR down to ±50 ppm/°C

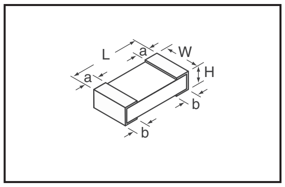

Type	Size Code	Dimensions (mm)				
		L	W	H	a	b
CSRF1/2	1206	3.2 ±0.2	1.6 ±0.2	0.8 ±0.15	0.5 ±0.15	0.5 ±0.15
CSRF1	2010	5.0 ±0.2	2.5 ±0.2	0.8 ±0.15	0.5 ±0.15	0.5 ±0.15
CSRF2	2512	6.5 ±0.33	3.2 ±0.2	0.8 ±0.15	1.0 ±0.15	1.0 ±0.15

Resistance Value Chart

CSRF1/2	CSRF1	CSRF2
0.006	0.005	0.005
0.008	0.01	.01
		0.05

Resistance Range (Ω)	Wat-tage	Toler-ance	Digi-Key Part No.§	Cut Tape Price Each 1	10	25	Digi-Key Part No.§	Tape and Reel Pricing 2,000
0.005 ~ 0.01	0.5	1%	CSRF1/2(Value)1%RCT-ND	.94	.65	.60	CSRF1/2(Value)1%RTR-ND	168.00/M
0.006 ~ 0.008	1	1%	CSRF1(Value)1%RCT-ND	1.56	1.08	1.00	CSRF1(Value)1%RTR-ND	264.00/M
0.005 ~ 0.05	2	1%	CSRF2(Value)1%RCT-ND	1.87	1.30	1.20	CSRF2(Value)1%RTR-ND	317.00/M

§ For complete part number, substitute value from Resistance Value Chart for (Value).

CSNL Series – Metal Foil Current Sensing Resistors

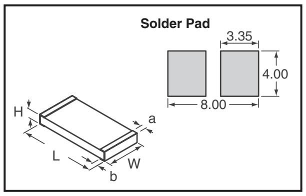

Features:

- Low inductance – typically less than 0.1nH
- TCR down to ±50ppm/°C
- Dielectric Withstanding Voltage: 200V

Resistance Value Chart

CSNL1/2	CSNL1	CSNL2	
0.001	0.001	0.0005	0.004
0.002	0.002	0.001	0.005
0.003	0.003	0.002	0.007
	0.005	0.003	

Type	Size Code	Dimensions (mm)				
		L	W	H	a	b
CSNL1/2	1206	3.20 ±0.25	1.60 ±0.1	0.6 ±0.2	0.98 ±0.38	0.98 ±0.38
CSNL1	2010	5.08 ±0.25	2.54 ±0.15	0.6 ±0.2	1.67 ±0.63	1.67 ±0.63
CSNL2 (0.0005Ω)	2512	6.35 ±0.25	3.18 ±0.25	1.4 ±0.2	1.3 ±0.3	1.3 ±0.3
CSNL2 (0.001Ω)		6.35 ±0.25	3.18 ±0.25	0.8 ±0.2	1.3 ±0.3	1.3 ±0.3
CSNL2 (0.002Ω)		6.35 ±0.25	3.18 ±0.25	0.5 ±0.2	1.3 ±0.3	1.3 ±0.3
CSNL2 (0.003Ω)		6.35 ±0.25	3.18 ±0.25	0.7 ±0.2	1.3 ±0.3	1.3 ±0.3
CSNL2 (0.004Ω)		6.35 ±0.25	3.18 ±0.25	0.6 ±0.2	1.3 ±0.3	1.3 ±0.3
CSNL2 (0.005Ω)		6.35 ±0.25	3.18 ±0.25	0.5 ±0.2	1.3 ±0.3	1.3 ±0.3
CSNL2 (0.007Ω)		6.35 ±0.25	3.18 ±0.25	0.45 ±0.2	1.3 ±0.3	1.3 ±0.3

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.§	Cut Tape Price Each 1	10	25	Digi-Key Part No.§	Tape and Reel Qty.	Pricing
0.001 ~ 0.003	1	1%	CSNL1/2(Value)1%RCT-ND ***NEW!***	1.25	.87	.80	CSNL1/2(Value)1%RTR-ND ***NEW!***	2,000	211.00/M
0.001 ~ 0.005	1.5	1%	CSNL1(Value)1%RCT-ND ***NEW!***	1.25	.87	.80	CSNL1(Value)1%RTR-ND ***NEW!***	2,000	211.00/M
0.0005	2	1%	CSNL2(Value)1%RCT-ND ***NEW!***	1.64	1.14	1.05	CLNL2(Value)1%RTR ***NEW!***	2,000	284.00/M
0.001 ~ 0.005	2	1%	CSNL2(Value)1%RCT-ND	1.17	.81	.75	CSNL2(Value)1%RTR-ND	2,000	203.00/M
0.007	2	1%	CSNL2 (Value)1%RCT-ND ***NEW!***	1.17	.81	.75	CSNL2(Value)1%RTR-ND ***NEW!***	2,000	203.00/M

§ For complete part number, substitute value from Resistance Value Chart for (Value).

NEW! CSKA Series Sample Kits

1/2 Watt 1206 1% Sample Kit
25 each of the following values:

CSRF	CSNL	CSR		
0.005	0.001	0.012	0.05	0.25
0.01	0.002	0.015	0.075	0.3
0.01	0.003	0.02	0.1	0.5
		0.025	0.015	0.75
		0.03	0.2	

1 Watt 2010 1% Sample Kit
25 each of the following values:

CSNL	CSRN			
0.001	0.01	0.075	0.15	0.5
0.002	0.02	0.1	0.2	0.75
0.003	0.025	0.015	0.25	
0.005	0.03	0.04	0.3	
	0.05	0.06	0.4	

2 Watt 2512 1% Sample Kit
25 each of the following values:

CSRF	CSNL	CSRN			
0.005	0.0005	0.01	0.075	0.15	0.4
0.01	0.001	0.02	0.1	0.2	0.47
	0.002	0.025	0.015	0.25	0.5
	0.003	0.03	0.04	0.3	0.68
	0.007	0.05	0.068	0.33	0.75

Description	Digi-Key Part No.	Price Each
1/2 Watt 1206 1% Sample Kit, 25 each of 20 values	CSKA1/21%SAMP/KIT-ND	125.00
1 Watt 2010 1% Sample Kit, 25 each of 21 values	CSKA11%SAMP/KIT-ND	137.50
2 Watt 2512 1% Sample Kit, 25 each of 27 values	CSKA21%SAMP/KIT-ND	150.00

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SEI Stackpole Electronics, Inc.
Resistive Product Solutions

RHC Series – High Power Thick Film Chip Resistors

Resistance Value Chart

0.1	68	1K	15K
1	100	1.5K	22K
10	150	2.2K	33K
15	220	3.3K	47K
22	330	4.7K	68K
33	470	6.8K	100K
47	680	10K	

Features:

- 2 Watts of power
- Runs significantly cooler than standard thick film 2512 chip

Type	Power Rating @ 70°C	Maximum Voltage	Temperature Coefficient
RHC2512	2 Watt	400	±100ppm/°C

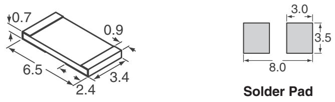

Dimensions in mm

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.‡	Cut Tape Price Each 1	10	25	Digi-Key Part No.‡	Tape and Reel Pricing 4,000
0.1 ~ 100K	2	1%	RHC2512-(Value)FCT-ND	1.95	1.35	1.25	RHC2512-(Value)FTR-ND	260.00/M

‡ For complete part number, substitute value from Resistance Value Chart for (Value).

NEW! RNCS Series – Anti-Corrosive Tantalum Nitride Replacement Resistors

Resistance Value Chart RNCS16 and RNCS20 Series

10§	332	2.49K	12.1K	68.1K
49.9	475	2.74K	15K	75K
75	499	3.01K	20K	100K
100	681	3.32K	22.1K	150K
121	750	4.75K	24.9K	200K
150	825	4.99K	27.4K	249K
200	1K	6.81K	30.1K	499K§
221	1.5K	7.5K	33.2K	
249	2K	8.25K	47.5K	
301	2.21K	10K	49.9K	

Resistance Value Chart RNCS32 Series

10
100
1K
10K
100K
1M

§ Not available in RNCS16 Series

Features:

- Special passivation for moisture sensitive applications
- Test proven immunity to humidity and moisture corrosion
- Ideal replacement for costly tantalum nitride resistors

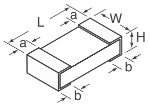

Type	Size Code	Dimensions (mm) L	W	H	a	b
RNCS16	0603	1.6 ±0.2	0.8 ±0.2	0.4 ±0.1	0.3 ±0.2	0.3 ±0.2
RNCS20	0805	2.0 ±0.2	1.25 ±0.2	0.4 ±0.1	0.4 ±0.2	0.4 ±0.2
RNCS32	1206	3.2 ±0.2	1.6 ±0.2	0.5 ±0.1	0.5 ±0.3	0.4 ±0.2

Resistance Range (Ω)	Wattage	Tolerance	TCR	Digi-Key Part No.‡	Cut Tape Pricing 1	10	25	Digi-Key Part No.‡	Tape and Reel Pricing 1,000
49.9 ~ 249K	0.1	±0.1%	±25ppm/°C	RNCS16T9(Value)0.1%ICT-ND	.53	3.67	8.50	RNCS16T9(Value)0.1%ITR-ND	109.00
10 ~ 499K	0.125	±0.1%	±25ppm/°C	RNCS20T9(Value)0.1%ICT-ND	.53	3.67	8.50	RNCS20T9(Value)0.1%ITR-ND	109.00
10 ~ 1M	0.25	±0.1%	±25ppm/°C	RNCS32T9(Value)0.1%ICT-ND	.62	4.32	10.00	RNCS32T9(Value)0.1%ITR-ND	112.00

‡ For complete part number, substitute value from Resistance Value Chart for (Value).

HPC Series – High Power Surface Mount Resistors

Resistance Value Chart

0.05	2	12	50	1K
0.1	5.1	22	100	
0.5	8.2	33	250	
1	10	47	500	

Features:
- Up to 12W with no external heat sinks
- Non-inductive resistive element
- Up to 50W for short duration

Electrical Specifications:
- Maximum Voltage: 200V
- Temperature Coefficient: ±150ppm/°C

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Pricing 200	400
0.05 ~ 1K	12	5%	HPC12-(Value)JCT-ND	9.75	6.75	6.25	HPC12-(Value)JTR-ND	487.60	800.00

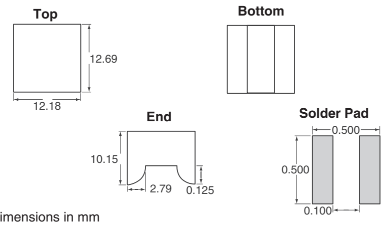

Dimensions in mm

SM Series – Surface Mount Wirewound Resistors

Resistance Value Chart

0.01	0.5
0.02	1
0.025	10
0.05	50
0.1	100
0.2	250

Type	Dimensions (mm) A	B	C	D	E	F	W	H	L
SM2	10.4	11.1	4.6	6.1	2.5	2.9	4.0	4.0	13.7
SM3	16.0	18.0	6.5	7.0	2.8	2.9	5.0	4.2	21.6

Features: • High temperature molded encapsulation • Flex termination for absorbing thermal expansion • All welded construction • Tinned copper terminals

Electrical Specifications: • Maximum Voltage: SM2: 50V; SM3: 100V • Temperature Coefficient: SM2: ±100ppm/°C; SM3: ±100ppm/°C

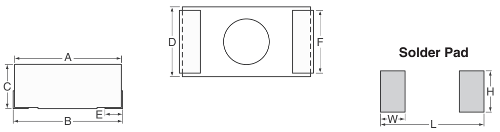

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.†	Cut Tape Price Each 1	10	25	Digi-Key Part No.†	Tape and Reel Pricing 750	800	1,500	1,600
0.01 ~ 0.05	2	1%	SM2-(Value)FCT-ND	3.04	2.11	1.95	SM2-(Value)FTR-ND	—	452.80	—	519.00/M
0.1 ~ 0.5	2	1%	SM2-(Value)FCT-ND	2.73	1.89	1.75	SM2-(Value)FTR-ND	—	406.40	—	466.00/M
1 ~ 250	2	1%	SM2-(Value)FCT-ND	2.34	1.62	1.50	SM2-(Value)FTR-ND	—	348.00	—	399.00/M
0.01 ~ 0.05	3	1%	SM3-(Value)FCT-ND	3.98	2.76	2.55	SM3-(Value)FTR-ND	535.50	—	663.00/M	—
0.1 ~ 0.5	3	1%	SM3-(Value)FCT-ND	3.51	2.43	2.25	SM3-(Value)FTR-ND	489.75	—	599.00/M	—
1 ~ 250	3	1%	SM3-(Value)FCT-ND	2.96	2.06	1.90	SM3-(Value)FTR-ND	413.25	—	505.00/M	—

† For complete part number, substitute value from Resistance Value Chart for (Value).

Precision Power Foil Shunt Resistors

Features: • Low TCR • High pulse ratings and absorption features which make for high performance in surge and high frequency applications, long term stability • Superior load stability compared to thick film down to 0.1% • Customs available as a special order **Material Specifications:** • Resistor Material: Copper Nickel Manganese-Foil (CuNiMn-Foil) • Substrate: (FPR2-T220 and FPS2-T220 Series) Al_2O_3 or anodized aluminium; (FPR2-T218 Series) anodized aluminium • Connector Material: Tinned Copper **Electrical Specifications:** • Temperature Coefficient: R>0.2Ω ±15ppm/K (20°C ~ 60°C) R≤0.2Ω (See chart for TCR) • Operating Temperature Range: -40°C ~ 130°C ***Power Rating Notes: For the full power rating resistors must be attached to a suitable heat sink. The maximum internal resistor temperature is 130°C.*** **Applications:** • Current Sense • High frequency • Power Supplies • Telecom • Instrumentation • Test Equipment

Dim. in mm

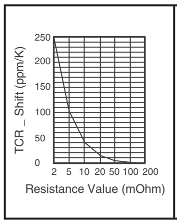

Fig. 1 — FPS2-T220 (Surface Mount)

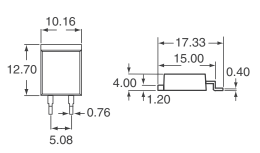

Fig. 2 — FPR2-T220

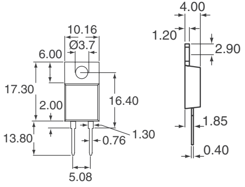

Fig. 3 — FPR2-T218

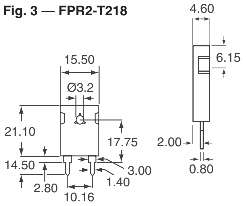

Resistance Values — FPS2-T220 Series

0.005	0.015	0.050	0.150	0.300	0.750	10.000
0.0075	0.020	0.075	0.200	0.360	1.000	25.000
0.010	0.025	0.100	0.250	0.500	5.000	50.000

Resistance Values — FPR2-T220 Series

0.002	0.020	0.075	0.200	0.360	1.000	25.000
0.010	0.025	0.100	0.250	0.500	5.000	50.000
0.015	0.050	0.150	0.300	0.750	10.000	

Resistance Values — FPR2-T218 Series

0.002	0.015	0.050	0.150	0.300	0 .750	10.000
0.005	0.020	0.075	0.200	0.360	1.000	25.000
0.010	0.025	0.100	0.250	0.500	5.000	50.000

Fig.	Power Rating	Resistance Range (Ω)	Tolerance %	Digi-Key Part No.†	Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Pricing 500	1,000	2,500	Riedon Part No.
1	15W	0.005 ~ 50.000	1	FPS2-T220(Value)CT-ND‡	8.52	6.39	5.68	FPS2-T220(Value)TR-ND	2775.00	4704.00	4526.00/M	FPS2-T220 xxxxxx Ohm 1%
2	15W	0.002 ~ 50.000	1	FPR2-T220(Value)-ND	8.28	6.90	6.04	—	—	—	—	FPR2-T220 xxxxxx Ohm 1%
3	30W	0.002 ~ 50.000	1	FPR2-T218(Value)-ND	7.38	5.46	4.81	—	—	—	—	FPR2-T218 xxxxxx Ohm 1%

† For complete Digi-Key part number, substitute value from Resistance Values chart for (Value). ‡ Cut Tape

Precision Power Foil Shunt Resistors

Features: • Industry standard T227 housing • Low TCR • High power rating (80 Watts) with exceptional pulse and absorption features – ideal for surge and high frequency applications • Superior performance compared to Thick Film, down to 0.1% **Material Specifications:** • Copper Nickel Manganese-Foil (CuNiMn-Foil) • AL_2O_3 or Anodized Aluminum Substrate • Tinned Copper or Nickel Plated Connectors **Electrical Specifications:** • Low thermal resistance 1.0K/W Rthj-c • Temperature Coefficient R>0.2Ω ±15ppm/K (20°C ~ 60°C) ***Power Rating Notes: For the full power rating resistors must be attached to a suitable heatsink.*** • The maximum internal resistor temperature is 130°C • Operating Temperature: -40°C ~ 130°C • 2.5kV Voltage Rating **Applications**: • Current Sense • High Frequency • Power Supplies • Telecom • Instrumentation • Test equipment

Resistance Values

0.010	0.150	3
0.015	0.200	5
0.020	0.250	10
0.025	0.300	33
0.050	0.360	50
0.075	0.500	75
0.100	1	100

Dim. in mm

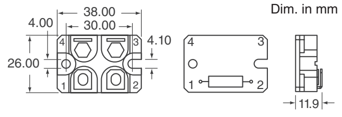

Power Rating	Resistance Range (Ω)	Tolerance %	Digi-Key Part No.†	Price Each 1	10	50	Riedon Part No.
80W	0.010 ~ 0.075	1	FNR2-T227-(Value)F-ND	32.83	31.00	19.84	FNR 2-T227 xxxxx Ohm 1% xxPPM
80W	0.100 ~ 5	1	FNR2-T227-(Value)F-ND	32.57	30.00	19.68	FNR 2-T227 xxxxx Ohm 1% xxPPM
80W	10 ~ 100	1	FNR2-T227-(Value)F-ND	36.78	32.00	22.79	FNR 2-T227 xxx Ohm 1% xxPPM

† For complete Digi-Key part number, substitute value from Resistance Values chart for (Value).

Ultra-Precision Foil Resistors

Features: • NiCr foil • Low TCR 1ppm • Tight 0.01% Tolerance • 0.6 Watt Power Rating • 0808 Package

Material Specifications: • NiCr on AL_2O_3 Substrate • PBTB / Epoxy Housing • Tinned Copper Leads

Electrical Specifications: • Temperature Coefficient: 1ppm (0°C ~ 60°C) • Operating Temperature: -55°C ~ 155°C • 2kV Voltage Rating • Load life 50ppm/Year

Applications: • Audio • Medical • Military • Test Equipment • Down-hole • Instrumentation

Resistance Values

100	500	5K	15K
120	1K	10K	20K
250	2K	12K	25K
350	2.5K	14K	30K

Dim. in mm

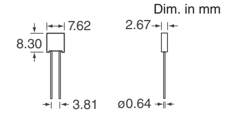

Power Rating @ 70°C	Resistance Range (Ω)	Tolerance %	Digi-Key Part No.†	Price Each 1	10	50	Riedon Part No.
0.6W	100 ~ 500	0.01	USR2-0808-(Value)T-ND	18.38	14.88	13.13	USR 2-0808 xxx Ohm 0.01% 1PPM
0.6W	1K ~ 15K	0.01	USR2-0808-(Value)T-ND	18.38	14.88	13.13	USR 2-0808 xxxx Ohm 0.01% 1PPM
0.6W	20K ~ 30K	0.01	USR2-0808-(Value)T-ND	19.95	15.68	14.25	USR 2-0808 xxx Ohm 0.01% 1PPM

† For complete Digi-Key part number, substitute value from Resistance Values chart for (Value).

SMD Power Thick Film Resistors

Features: • Convenient TO126 SMD housing (D-PAK) • 25 Watt Power Rating • Solder reflow safe (260°C / 20s) • Non Inductive Design **Material Specification:** • Thick film on AL_2O_3 **Electrical Specifications:** • Temperature Coefficient: to 100ppm • Operating Temperature: -40°C ~ 175°C • 2kV Voltage Rating ***Power Rating Notes: For the full power rating resistors must be attached to a suitable heatsink.*** **Applications:** • Power Supplies • Medical Devices • Telecom • Automotive

Resistance Values

.025	.30	25	1.5K
.050	.36	50	2.0K
.075	.50	100	2.5K
.10	.75	250	5.0K
.15	1	500	7.5K
.20	5	750	10.0K
.25	10	1.0K	

Dim. in mm

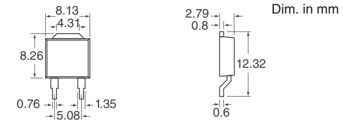

Power Rating	Resistance Range (Ω)	Tolerance %	Digi-Key Part No.†	Cut Tape Price Each 1	10	50	Digi-Key Part No.†	Tape and Reel Pricing 500	1,000	2,500	Riedon Part No.
25W	.025 ~ .075	5	NPS2-T126-(Value)JCT-ND	7.68	5.53	4.92	NPS2-T126-(Value)JTR-ND	2149.00	4145.00	3914.00/M	NPS 2-T126 xxxxx Ohm 5%
25W	.10 ~ .75	5	NPS2-T126-(Value)JCT-ND	6.33	4.69	4.13	NPS2-T126-(Value)JTR-ND	1771.00	3416.00	3289.00/M	NPS 2-T126 xxxx Ohm 5%
25W	1 ~ 10.0K	1	NPS2-T126-(Value)FCT-ND	6.33	4.69	4.13	NPS2-T126-(Value)FTR-ND	1771.00	3416.00	3289.00/M	NPS 2-T126 xxxxxxxxx Ohm 1%

† For complete Digi-Key part number, substitute value from Resistance Values chart for (Value).

NEW! SMD Wirewound Resistors – S Series

Features: • Resistance: 0.010 ~ 47kΩ • High Power: 0.5 ~ 4 Watts • Low Temperature Coefficient: to ±20 ppm/K • Superior surge handling capability • Reel packaging • Non-inductive windings are available (Type SN) • Lead Thickness: 0.006" (0.15mm) • Stand-Off Height: 0.005" (0.13mm)

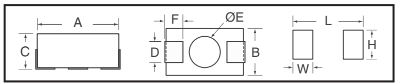

S-1 Resistance Values

0.010	0.100	1.000	150
0.015	0.150	10	220
0.020	0.200	15	
0.030	0.300	22	
0.036	0.360	47	
0.050	0.470	68	
0.075	0.750	100	

S-2 Resistance Values

0.010	0.150	10	220
0.015	0.200	15	470
0.020	0.300	22	680
0.030	0.500	47	1500
0.050	0.680	68	2200
0.075	0.750	100	3000
0.100	1.000	150	

S-4 Resistance Values

0.010	0.150	15	470	15000
0.015	0.200	22	680	
0.020	0.300	47	1500	
0.030	0.500	68	2200	
0.050	0.750	100	4700	
0.075	1.000	150	6800	
0.100	10	220	10000	

S-3 Resistance Values

0.010	0.150	15	470	15000
0.015	0.200	22	680	22000
0.020	0.300	47	1500	
0.030	0.500	68	2200	
0.050	0.750	100	4700	
0.075	1.000	150	6800	
0.100	10	220	10000	

S-5 Resistance Values

0.010	68	6800
0.050	100	10000
0.100	220	15000
1.000	470	22000
10	680	47000
22	2200	
47	4700	

Type	Dimensions – mm A	B	C	D	F	Stand-Off (mm) øE	Footprint (mm) W	H	L
S-1	4.8	3.3	2.8	1.5	1.0	2.5	1.6	2.5	6.4
S-2	6.6	3.9	3.2	1.8	1.8	3.0	2.4	2.8	8.6
S-4	11.4	6.4	4.6	3.0	2.5	4.8	3.9	5.8	13.7
S-3	15.9	6.9	6.4	3.0	3.4	3.8	5.1	3.8	17.8
S-5	20.8	7.5	7.1	3.8	4.8	6.2	5.6	6.4	22.9

Type	Power Rating @ 70°C	Working Voltage (Max.)	Resistance Range Ω	Tolerance %	Digi-Key Part No.†	Cut Tape Price Each 1	10	50	Digi-Key Part No.†	Tape and Reel Qty.	Pricing	Riedon Part No.
S-1	0.5W	33	0.010 ~ 220	1	S-1-(Value)FCT-ND	1.69	1.09	.90	S-1-(Value)FTR-ND	3,000	658.00/M	S-1 xxxxx Ohm 1%
S-2	1W	58	0.010 ~ 3000	1	S-2-(Value)FCT-ND	1.73	1.11	.92	S-2-(Value)FTR-ND	2,000	684.00/M	S-2 xxxxx Ohm 1%
S-4	2W	127	0.010 ~ 15000	1	S-4-(Value)FCT-ND	1.73	1.11	.92	S-4-(Value)FTR-ND	1,000	720.00	S-4 xxxxx Ohm 1%
S-3	3W	150	0.010 ~ 22000	1	S-3-(Value)FCT-ND	2.24	1.44	1.19	S-3-(Value)FTR-ND	500	467.50	S-3 xxxxx Ohm 1%
S-5	4W	212	0.010 ~ 47000	1	S-5-(Value)FCT-ND	2.24	1.44	1.19	S-5-(Value)FTR-ND	500	467.50	S-5 xxxxx Ohm 1%

† For complete Digi-Key part number, substitute the value from Resistance Values chart for (Value).

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® Surface Mount Chip Resistor Arrays

FEATURES:

High Density: • 2 resistors in 0.8mm x 0.6mm size (EXB-14V) • 2 resistors in 1.6mm x 1.6mm size (EXB-V4V) • 4 resistors in 3.2mm x 1.6mm size (EXB-V8V) • 2 resistors in 1.0mm x 1.0mm size (EXB-24V) • 4 resistors in 1.4mm x 0.6mm size (EXB-18V) • 4 resistors in 2.0mm x 1.0mm size (EXB-28V) • 4 resistors in 2.0mm x 1.0mm size (EXB-N8V) • 2 resistors in 1.6mm x 1.6mm size (EXB-34V) • 4 resistors in 3.2mm x 1.6mm size (EXB-38V) • 8 resistors in 3.8mm x 1.6mm size (EXB-2HV) • Improvement of placement efficiency: Placement efficiency of Chip Resistor Array is two or four times that of discrete chip resistors.

SPECIFICATIONS:

• Resistance Tolerance: J: ±5% • Power Rating at 70°C: 1/16W per element; 1/32W for EXB-14V, EXB-28V, EXB-N8V and EXB-18V • Maximum Rated Continuous Working Voltage ‡: 50V; 25V for EXB-2HV; 12.5V for EXB-14V and EXB-18V • Maximum Overload Voltage: 100V; 50V for EXB-2HV; 25V for EXB-14V and EXB-18V • Temperature Characteristic Range: ±200ppm/°C • Operating Temperature Range: -55°C ~ 125°C

EXB-N8V, EXB-V4V and EXB-V8V

Type	Dimensions (mm)								Weight (g/M pcs.)
	L	W	T	A1	A2	B	P	G	
EXB-N8V	2.0	1.0	0.45	0.3	0.3	0.2	0.5	0.30	3.0
EXB-V4V	1.6	1.6	0.60	0.6	—	0.3	0.8	0.45	5.0
EXB-V8V	3.2	1.6	0.60	0.6	0.6	0.3	0.8	0.45	10

‡ Rated continuous working voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Value}}$, or maximum RCWV listed, whichever is less.

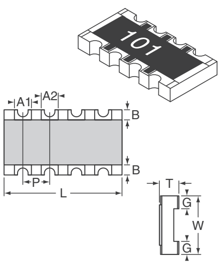

Isolated Terminals

Fig. 1 —
2 Resistors

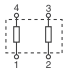

Fig. 2 —
4 Resistors

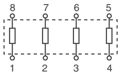

Fig. 3 —
8 Resistors

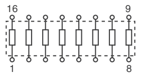

EXB-14V

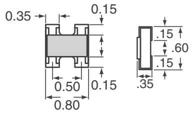

EXB-18V

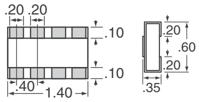

EXB-24V

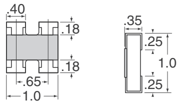

EXB-28V

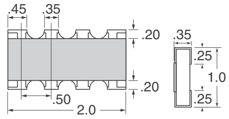

EXB-34V

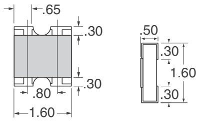

EXB-38V

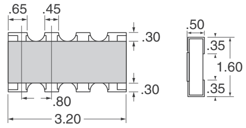

EXB-2HV

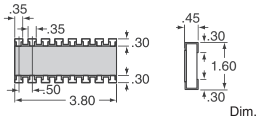

Dim. in mm

EXB-V4V, EXB-V8V, EXB-24V, EXB-34V and EXB-38V Series
Isolated Terminals Resistance Codes (E12 Values)
(Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	3R9 (3R9)	27 (270)	470 (471)	8.2K (822)	150K (154)
1.0 (1R0)	4R3 (4R3)	33 (330)	560 (561)	10K (103)	180K (184)
1.1 (1R1)	4R7 (4R7)	39 (390)	680 (681)	12K (123)	220K (224)
1.2 (1R2)	5R1 (5R1)	47 (470)	820 (821)	15K (153)	270K (274)
1.3 (1R3)	5R6 (5R6)	56 (560)	1.0K (102)	18K (183)	330K (334)
1.5 (1R5)	6R2 (6R2)	68 (680)	1.2K (122)	22K (223)	390K (394)
1.6 (1R6)	6R8 (6R8)	82 (820)	1.5K (152)	27K (273)	470K (474)
1.8 (1R8)	7R5 (7R5)	100 (101)	1.8K (182)	33K (333)	560K (564)
2.0 (2R0)	8R2 (8R2)	120 (121)	2.2K (222)	39K (393)	680K (684)
2.2 (2R2)	9R1 (9R1)	150 (151)	2.7K (272)	47K (473)	820K (824)
2.4 (2R4)	10 (100)	180 (181)	3.3K (332)	56K (563)	1M (105)
2.7 (2R7)	12 (120)	220 (221)	3.9K (392)	68K (683)	
3.0 (3R0)	15 (150)	270 (271)	4.7K (472)	82K (823)	
3.3 (3R3)	18 (180)	330 (331)	5.6K (562)	100K (104)	
3.6 (3R6)	22 (220)	390 (391)	6.8K (682)	120K (124)	

EXB-2HV Series
Isolated Terminals Resistance Codes (E12 Values)
(Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	10 (100)	120 (121)	1.5K (152)	18K (183)	220K (224)
1.0 (1R0)	12 (120)	150 (151)	1.8K (182)	22K (223)	270K (274)
1.2 (1R2)	15 (150)	180 (181)	2.2K (222)	27K (273)	330K (334)
1.5 (1R5)	18 (180)	220 (221)	2.7K (272)	33K (333)	390K (394)
1.8 (1R8)	22 (220)	270 (271)	3.3K (332)	39K (393)	470K (474)
2.2 (2R2)	27 (270)	330 (331)	3.9K (392)	47K (473)	560K (564)
2.7 (2R7)	33 (330)	390 (391)	4.7K (472)	56K (563)	680K (684)
3.3 (3R3)	39 (390)	470 (471)	5.6K (562)	68K (683)	820K (824)
3.9 (3R9)	47 (470)	560 (561)	6.8K (682)	82K (823)	1M (105)
4.7 (4R7)	56 (560)	680 (681)	8.2K (822)	100K (104)	
5.6 (5R6)	68 (680)	820 (821)	10K (103)	120K (124)	
6.8 (6R8)	82 (820)	1.0K (102)	12K (123)	150K (154)	
8.2 (8R2)	100 (101)	1.2K (122)	15K (153)	180K (184)	

EXB-14V and EXB-18V Series
Isolated Terminals Resistance Codes (E12 Values)
(Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	47 (470)	270 (271)	1.5K (152)	8.2K (822)	47K (473)	270K (274)
10 (100)	56 (560)	330 (331)	1.8K (182)	10K (103)	56K (563)	330K (334)
12 (120)	68 (680)	390 (391)	2.2K (222)	12K (123)	68K (683)	390K (394)
15 (150)	82 (820)	470 (471)	2.7K (272)	15K (153)	82K (823)	470K (474)
18 (180)	100 (101)	560 (561)	3.3K (332)	18K (183)	100K (104)	560K (564)
22 (220)	120 (121)	680 (681)	3.9K (392)	22K (223)	120K (124)	680K (684)
27 (270)	150 (151)	820 (821)	4.7K (472)	27K (273)	150K (154)	820K (824)
33 (330)	180 (181)	1.0K (102)	5.6K (562)	33K (333)	180K (184)	1M (105)
39 (390)	220 (221)	1.2K (122)	6.8K (682)	39K (393)	220K (224)	

EXB-28V and EXB-N8V Series
Isolated Terminals Resistance Codes (E24 Values)
(Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	6.8 (6R8)	51 (510)	390 (391)	3.0K (302)	22K (223)	160K (164)
1.0 (1R0)	7.5 (7R5)	56 (560)	430 (431)	3.3K (332)	24K (243)	180K (184)
1.1 (1R1)	8.2 (8R2)	62 (620)	470 (471)	3.6K (362)	27K (273)	200K (204)
1.2 (1R2)	9.1 (9R1)	68 (680)	510 (511)	3.9K (392)	30K (303)	220K (224)
1.3 (1R3)	10 (100)	75 (750)	560 (561)	4.3K (432)	33K (333)	240K (244)
1.5 (1R5)	11 (110)	82 (820)	620 (621)	4.7K (472)	36K (363)	270K (274)
1.6 (1R6)	12 (120)	91 (910)	680 (681)	5.1K (512)	39K (393)	300K (304)
1.8 (1R8)	13 (130)	100 (101)	750 (751)	5.6K (562)	43K (433)	330K (334)
2.0 (2R0)	15 (150)	110 (111)	820 (821)	6.2K (622)	47K (473)	360K (364)
2.2 (2R2)	16 (160)	120 (121)	910 (911)	6.8K (682)	51K (513)	390K (394)
2.4 (2R4)	18 (180)	130 (131)	1.0K (102)	7.5K (752)	56K (563)	430K (434)
2.7 (2R7)	20 (200)	150 (151)	1.1K (112)	8.2K (822)	62K (623)	470K (474)
3.0 (3R0)	22 (220)	160 (161)	1.2K (122)	9.1K (912)	68K (683)	510K (514)
3.3 (3R3)	24 (240)	180 (181)	1.3K (132)	10K (103)	75K (753)	560K (564)
3.6 (3R6)	27 (270)	200 (201)	1.5K (152)	11K (113)	82K (823)	620K (624)
3.9 (3R9)	30 (300)	220 (221)	1.6K (162)	12K (123)	91K (913)	680K (684)
4.3 (4R3)	33 (330)	240 (241)	1.8K (182)	13K (133)	100K (104)	750K (754)
4.7 (4R7)	36 (360)	270 (271)	2.0K (202)	15K (153)	110K (114)	820K (824)
5.1 (5R1)	39 (390)	300 (301)	2.2K (222)	16K (163)	120K (124)	910K (914)
5.6 (5R6)	43 (430)	330 (331)	2.4K (242)	18K (183)	130K (134)	1M (105)
6.2 (6R2)	47 (470)	360 (361)	2.7K (272)	20K (203)	150K (154)	

Fig.	No. of Resistors	Resistor Value Range§	Digi-Key• Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key• Part No.	Tape and Reel Pricing 5,000	10,000	20,000	Panasonic• Part No.
2	4	E24	Y10**(Code)**CT-ND	.44	3.85	13.75	23.65	Y10**(Code)**TR-ND	—	10.00/M	—	EXB-N8V□□□JX
1	2	E12	Y2**(Code)**CT-ND	.48	4.20	15.00	25.80	Y2**(Code)**TR-ND	17.00/M	16.00/M	—	EXB-V4V□□□JV
2	4	E12	Y4**(Code)**CT-ND	.80	7.00	25.00	43.00	Y4**(Code)**TR-ND	28.00/M	26.00/M	—	EXB-V8V□□□JV
1	2	E12	Y3**(Code)**CT-ND	1.46	12.81	45.75	78.69	Y3**(Code)**TR-ND	—	51.00/M	48.00/M	EXB-14V□□□JX
2	4	E12	Y6**(Code)**CT-ND◆	2.38	20.83	74.38	127.93	Y6**(Code)**TR-ND◆	—	83.00/M	—	EXB-18V□□□JX
1	2	E12	Y5**(Code)**CT-ND	1.00	8.75	31.25	53.75	Y5**(Code)**TR-ND	—	34.00/M	33.00/M	EXB-24V□□□JX
2	4	E24	Y7**(Code)**CT-ND	1.00	8.75	31.25	53.75	Y7**(Code)**TR-ND	—	34.00/M	33.00/M	EXB-28V□□□JX
1	2	E12	Y8**(Code)**CT-ND	.42	3.68	13.13	22.58	Y8**(Code)**TR-ND	15.00/M	14.00/M	—	EXB-34V□□□JV
2	4	E12	Y9**(Code)**CT-ND	.31	2.73	9.75	16.77	Y9**(Code)**TR-ND	11.00/M	10.00/M	—	EXB-38V□□□JV
3	8	E12	Y1**(Code)**CT-ND	1.80	15.75	56.25	96.75	Y1**(Code)**TR-ND	61.00/M	59.00/M	—	EXB-2HV□□□JV

• For complete part number, substitute the corresponding resistance Code. § E24 Resistance Values are available for other series. Please call Digi-Key for details. ◆ ***RoHS Compliant***

RF Jumper Chip Resistor

SPECIFICATIONS:

• Isolation (2.5GHz): -40dB maximum • Return Loss (2.5GHz): -20dB maximum • Rated Current: 1A (derating curve for jumpers operated in ambient temperatures above 70°C, rated current shall be derated in accordance with derating curve chart • Number of Terminals: 6
• Temperature Range: -55°C ~ 125°C

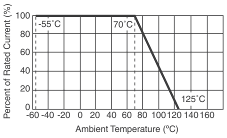

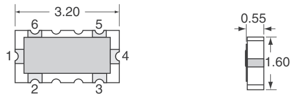

Dim. in mm

Resistance (1-4 Terminal)	Insertion Loss (2.5GHz)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape and Reel Pricing 5,000	10,000	15,000	25,000	50,000	Panasonic Part No.
50mΩ max.	-0.5dB max.	P0.0NCT-ND	2.41	20.06	80.25	133.75	P0.0NTR-ND	89.00/M	74.00/M	69.00/M	67.00/M	63.00/M	EXB-D6JP000A

Panasonic®

Surface Mount Chip Resistor Networks — Series EXB-A, EXB-E, EXB-D and EXB-Q

FEATURES: • **High Density:** Bussed 8 resistors for pull up/down circuit in EXB-A Type 2512 (6.4mm x 3.1mm x 0.55mm), EXB-E Type 1608 (4.0mm x 2.1mm x 0.55mm), EXB-D Type 1206 (3.2mm x 1.6mm x 0.55mm) size and EXB-Q Type 1506 (3.8mm x 1.6mm x 0.45mm) • **Automatic Placement:** Taped and reeled packaging is suitable for high speed automatic placement machine • EXB-Q has available direct placing on the bus line by means of half pitch spacing without through-holes on PWB. It also features high speed mounting by conventional placing machine.

SPECIFICATIONS: • **Resistance Range:** 47Ω ~ 1MΩ (EXB-Q: 100Ω ~ 470KΩ) • **Resistance Tolerance:** ±5% • **Number of Terminals:** 10 Terminals (EXB-Q: 16 Terminals) • **Number of Resistors:** 8 Resistors (EXB-Q: 15 Resistors) • **Power Rating at 70°C:** 63mW/element (EXB-D: 50mW/element; EXB-Q: 25mW/element) • **Maximum Rated Continuous Working Voltage †:** EXB-A: 50V; EXB-E, EXB-D and EXB-Q: 25V • **Maximum Overload Voltage:** EXB-A: 100V; EXB-E, EXB-D and EXB-Q: 50V • **Temperature Characteristic Range:** ±200 ppm/°C • **Operating Temperature Range:** -55°C ~ 125°C

† Rated continuous working voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Value}}$, or maximum RCWV listed above, whichever is less.

Resistance Codes for EXB-A, EXB-E and EXB-D
(Values listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)
47 (470)	680 (681)	10K (103)	150K (154)
56 (560)	820 (821)	12K (123)	180K (184)
68 (680)	1.0K (102)	15K (153)	220K (224)
82 (820)	1.2K (122)	18K (183)	270K (274)
100 (101)	1.5K (152)	22K (223)	330K (334)
120 (121)	1.8K (182)	27K (273)	390K (394)
150 (151)	2.2K (222)	33K (333)	470K (474)
180 (181)	2.7K (272)	39K (393)	560K (564)
220 (221)	3.3K (332)	47K (473)	680K (684)
270 (271)	3.9K (392)	56K (563)	820K (824)
330 (331)	4.7K (472)	68K (683)	1M (105)
390 (391)	5.6K (562)	82K (823)	
470 (471)	6.8K (682)	100K (104)	
560 (561)	8.2K (822)	120K (124)	

Resistance Codes for EXB-Q
(Values listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)
100 (101)	1K (102)	10K (103)	100K (104)
150 (151)	1.5K (152)	15K (153)	150K (154)
220 (221)	2.2K (222)	22K (223)	220K (224)
330 (331)	3.3K (332)	33K (333)	330K (334)
470 (471)	4.7K (472)	47K (473)	470K (474)
680 (681)	6.8K (682)	68K (683)	

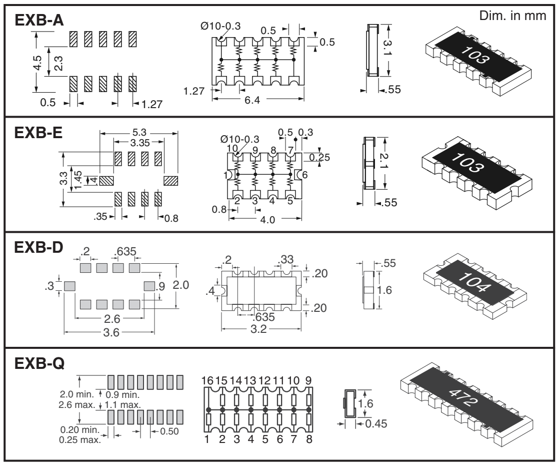

Digi-Key* Part No.	Cut Tape Pricing 1	10	100	500	1,000	Digi-Key* Part No.	Tape and Reel Pricing 4,000	5,000	8,000	10,000	Panasonic* Part No.
U7(Code)CT-ND	.46	4.26	34.50	143.75	230.00	U7(Code)TR-ND	207.00/M	—	173.00/M	—	EXB-A10P(Code)J
U8(Code)CT-ND	.42	3.89	31.50	131.25	210.00	U8(Code)TR-ND	153.00/M	—	128.00/M	—	EXB-E10C(Code)J
U9(Code)CT-ND	.44	4.03	32.70	136.25	218.00	U9(Code)TR-ND	—	153.00/M	—	128.00/M	EXB-D10C(Code)J
U6(Code)CT-ND	.60	5.54	44.93	187.19	299.50	U6(Code)TR-ND	—	270.00/M	—	225.00/M	EXB-Q16P(Code)J

* For complete part number, substitute the corresponding resistance Code

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Surface Mount 0404 Balanced 0 Type Chip Attenuator

— Series EXB-24AB

FEATURES: • Balanced "0" type attenuator circuit in one 0404 chip (1.0mm x 1.0mm) • Mounting occupation area reduction; –approximately 65% reduction compared with the attenuator circuit and consists of four discrete 0402 chip resistors; –approximately 26% reduction compared with the attenuator circuit and consists of four discrete 0201 chip resistors • Mounting time reduction: 4 times >>> 1 time • Attenuation: 0dB to 10dB **APPLICATIONS:** • Attenuation/level control/impedance matching of high frequency signals of communication equipment – cellular phones (GSM, CDMA, PDC, etc.), PHS, PDA, for example. **SPECIFICATIONS:** • Rated Power: 0.040W (40mW)/package • Frequency Range: DC to 2.5GHz • VSWR (Voltage Standing Wave Ratio) 1.2 maximum (typical), 1.5 maximum (0dB, typical) • Operating Temperature Range: -55°C ~ 125°C

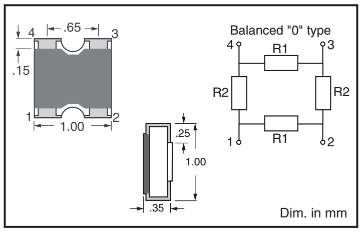

Tolerance of Attenuation	Attenuation Value (dB)	R1 (Ω)	R2 (Ω)	Characteristic Impedance (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	T & R Pricing 10,000	Panasonic Part No.
±0.8	0	0	open	0	P11153CT-ND◆	2.44	21.33	76.19	P11153TR-ND◆	82.00/M	EXB-24AB00R8X
	1	5.77	1.74k	100	P11154CT-ND	2.44	21.33	76.19	P11154TR-ND	82.00/M	EXB-24AB1CR8X
	2	11.6	872	100	P11155CT-ND	2.44	21.33	76.19	P11155TR-ND	82.00/M	EXB-24AB2CR8X
	3	17.6	585	100	P11156CT-ND	2.44	21.33	76.19	P11156TR-ND	82.00/M	EXB-24AB3CR8X
±1.0	6	37.4	301	100	P11157CT-ND◆	2.44	21.33	76.19	P11157TR-ND◆	82.00/M	EXB-24AB6C1RX
±2.0	10	71.2	192	100	P11158CT-ND	2.44	21.33	76.19	P11158TR-ND	82.00/M	EXB-24ABAC2RX
±0.8	1	11.5	3.48k	200	P11159CT-ND	2.44	21.33	76.19	P11159TR-ND	82.00/M	EXB-24AB1ER8X
	2	23.2	1.74k	200	P11160CT-ND	2.44	21.33	76.19	P11160TR-ND	82.00/M	EXB-24AB2ER8X
	3	35.2	1.17k	200	P11161CT-ND	2.44	21.33	76.19	P11161TR-ND	82.00/M	EXB-24AB3ER8X
	6	74.7	602	200	P11162CT-ND	2.44	21.33	76.19	P11162TR-ND	82.00/M	EXB-24AB6E1RX
	10	142	385	200	P11163CT-ND	2.44	21.33	76.19	P11163TR-ND	82.00/M	EXB-24ABAE2RX
	1	17.3	5.22k	300	P11164CT-ND	2.44	21.33	76.19	P11164TR-ND	82.00/M	EXB-24AB1GR8X
	2	34.8	2.62k	300	P11165CT-ND	2.44	21.33	76.19	P11165TR-ND	82.00/M	EXB-24AB2GR8X
	3	52.8	1.75k	300	P11166CT-ND	2.44	21.33	76.19	P11166TR-ND	82.00/M	EXB-24AB3GR8X
±1.0	6	112	903	300	P11167CT-ND	2.44	21.33	76.19	P11167TR-ND	82.00/M	EXB-24AB6G1RX
±2.0	10	213	577	300	P11168CT-ND	2.44	21.33	76.19	P11168TR-ND	82.00/M	EXB-24ABAG2RX

◆ ***RoHS Compliant***

Surface Mount 0404 Chip Attenuator

— Series EXB-24AT

FEATURES: • Unbalanced π type attenuator circuit in one chip (1.0mm x 1.0mm) • Mounting occupation area reduction: about 50% reduction compared with attenuator circuit consisting of three 0402 chip resistors • Mounting Times reduction: 3 time >>> 1 time • Attenuation: 1dB to 10dB

APPLICATIONS: • Attenuation/level control/impedance matching of high frequency signals of communication equipment – cellular phones (GSM, CDMA, PDC, etc.), PHS, PDA, for example.

SPECIFICATIONS: • Characteristic Impedance: 50Ω • Rated Power: 0.040W (40mW)/package • Frequency Range: DC to 2GHz • VSWR (Voltage Standing Wave Ratio) 1.3 maximum

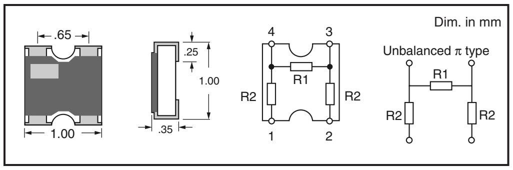

Attenuation - Frequency Characteristics (Typical)

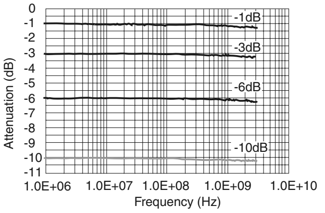

Tolerance of Attenuation	Attenuation Value (dB)	R1 (Ω)	R2 (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 10,000	Panasonic Part No.
±0.3	1	5.77	870	P11103CT-ND	1.76	15.40	55.00	P11103TR-ND	59.00/M	EXB-24AT1AR3X
	2	11.6	436	P11104CT-ND	1.76	15.40	55.00	P11104TR-ND	59.00/M	EXB-24AT2AR3X
	3	17.6	292	P11105CT-ND	1.64	14.35	51.25	P11105TR-ND	55.00/M	EXB-24AT3AR3X
	4	23.9	221	P11106CT-ND	1.76	15.40	55.00	P11106TR-ND	59.00/M	EXB-24AT4AR3X
	5	30.4	179	P11107CT-ND	1.76	15.40	55.00	P11107TR-ND	59.00/M	EXB-24AT5AR3X
±0.5	6	37.4	151	P11108CT-ND	1.76	15.40	55.00	P11108TR-ND	59.00/M	EXB-24AT6AR5X
	10	71.2	96.3	P11109CT-ND	1.78	15.54	55.50	P11109TR-ND	60.00/M	EXB-24ATAAR5X

2% Thick Film Resistor Networks

Low Profile, Single-In-Line Package, Highly Stable, Equivalent to MIL-R-83401

GENERAL SPECIFICATIONS:

Rated Power:
Common: 125mW (70°C); Isolated: 200mW (60°C); Line Terminator: 75mW (70°C).

Rated Continuous Working Voltage (RCWV): $\sqrt{\text{Rated Power x Resistance Value}}$ or 100V, whichever is less.

Operating Temperature Range:
–55°C ~ 125°C

Storage Temperature Range:
–55°C ~ 150°C

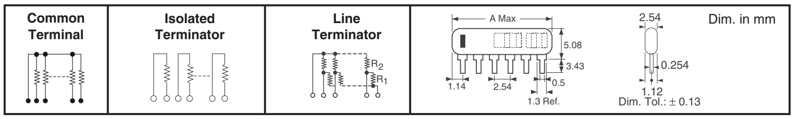

Common Terminal and Isolated Terminal: Resistance Codes

Value (Code)	Value (Code)	Value (Code)
100 (101)	6.8K (682)	150K (154)
150 (151)	8.2K (822)	220K (224)
220 (221)	15K (153)	330K (334)
330 (331)	22K (223)	470K (474)
560 (561)	33K (333)	560K (564)
680 (681)	47K (473)	680K (684)
820 (821)	56K (563)	
1.5K (152)	68K (683)	
5.6K (562)	82K (823)	

Line Terminator: Resistance Codes

R1/R2 (Code)
160/240 (T01)
180/390 (T02)
220/270 (T03)
220/330 (T04)
330/390 (T05)
330/470 (T06)
330/680 (T07)
1.5K/3.3K (T08)

Type	Res. Elements	No. of Pins	Dim. A (mm)	Digi-Key* Part No.	Pricing 1	10	100	1,000	5,000	Panasonic Part No.
Common Terminal	5	6	14.88	Q5(Code)-ND	.25	2.03	15.23	102.00	92.00/M	EXB-F6E(Code)G
	7	8	19.96	Q7(Code)-ND	.33	2.67	19.99	133.00	121.00/M	EXB-F8E(Code)G
	9	10	25.04	Q9(Code)-ND	.42	3.35	25.14	168.00	152.00/M	EXB-F10E(Code)G
Isolated Terminator	3	6	14.88	Q2(Code)-ND	.25	2.03	15.23	102.00	92.00/M	EXB-F6V(Code)G
	4	8	19.96	Q4(Code)-ND	.33	2.67	19.99	133.00	121.00/M	EXB-F8V(Code)G
	5	10	25.04	Q6(Code)-ND	.42	3.35	25.14	168.00	152.00/M	EXB-F10(Code)G
Line Terminator	8	6	14.88	Q0(Code)-ND	.40	3.23	24.22	161.00	147.00/M	EXB-F6WT(Code)G
	12	8	19.96	Q1(Code)-ND	.54	4.32	32.39	216.00	196.00/M	EXB-F8WT(Code)G
	16	10	25.04	Q3(Code)-ND	.67	5.38	40.37	269.00	245.00/M	EXB-F10WT(Code)G

* For complete part number, substitute the corresponding resistance Code.

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Surface Mount Chip 3-Terminal Capacitor Array — Series EZA-SC

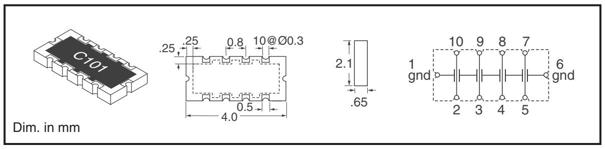

FEATURES:
Suitable for EMI suppression filtering: • The low residual inductance at high frequency range provides effective reduction of noise • Equivalent noise reduction to the EMI filters with low cost design **Compact design for high density PWB assembly:** • 4.0 x 2.1 x 0.65mm • Flat and square packages suitable for high speed automatic placement machine **Superior mountability with concave terminals:** • Firm solder joint (two times of convex terminal) • Self-alignment of placement at reflow process

SPECIFICATIONS:
• Capacitance Tolerance: ±20% (+30% / -20% in the case of 22pf) • Temperature Characteristic: ΔC: +20% / -55% (-25°C ~ 85°C) • Dissipation Factor: Less than 2.0% (25°C, 1kHz – In measuring at 1MHz, capacitance value and dissipation factor are different, 1 Vrms) • Rated Voltage: 25V • Rated Current: 200mA (between input terminal and output terminal) • Resistance: Less than 1.0Ω (between input terminal and output terminal) • Operating Temperature Range: -25°C ~ 85°C

Volts (DC)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	T & R Pricing 4,000	Panasonic Part No.
25	22	P10192CT-ND	1.18	1.04	.89	.74	P10192TR-ND	414.00/M	EZA-SCE220M
25	47	P10193CT-ND	1.18	1.04	.89	.74	P10193TR-ND	414.00/M	EZA-SCE470M
25	100	P10194CT-ND	1.18	1.04	.89	.74	P10194TR-ND	414.00/M	EZA-SCE101M

Surface Mount Chip Capacitor Networks — Series EZA-NP

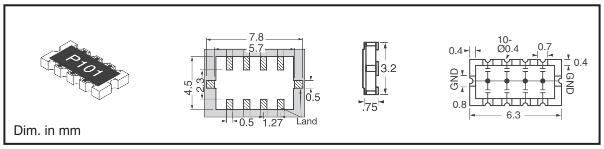

FEATURES: • Chip Capacitor Networks — exclusively developed by Panasonic thick film technology. Bussed 8 capacitors in one package (6.3mm x 3.2mm x 0.75mm), half-pitch (0.65mm) spacing for high density automatic placing • Superior noise reduction by using two ground terminals • Superior solderability by using Ni + Solder plating with unique concave terminals

SPECIFICATIONS: • Capacitance Range: 47pF, 100pF, 220pF • Capacitance Tolerance: ±20% • Temperature Characteristic: E Characteristic: +20% / -55% (-25°C ~ 85°C) • Dissipation Factor: Less than 3.0% (25°C, 1kHz, 1Vrms) • Rated Voltage: 25V • Operating Temperature Range: -25°C ~ 85°C

Volts (DC)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	T & R Pricing 4,000	Panasonic Part No.
25	47	PCN1001CT-ND	2.03	1.78	1.53	1.27	PCN1001TR-ND	710.00/M	EZA-NPE470M
25	100	PCN1002CT-ND	2.03	1.78	1.53	1.27	PCN1002TR-ND	710.00/M	EZA-NPE101M
25	220	PCN1003CT-ND	2.03	1.78	1.53	1.27	PCN1003TR-ND	710.00/M	EZA-NPE221M

Surface Mount Chip RC Networks — Series EZA-ST, EZA-DT, EZA-DL, EZA-NT, and EZA-CT

EZA-ST Series

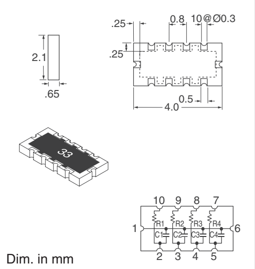

EZA-DT Series

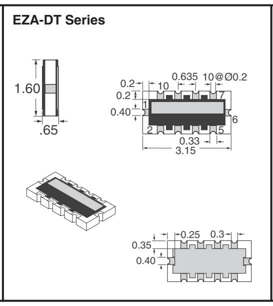

EZA-DL Series

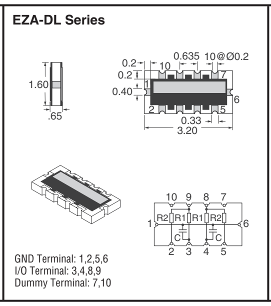

EZA-NT Series

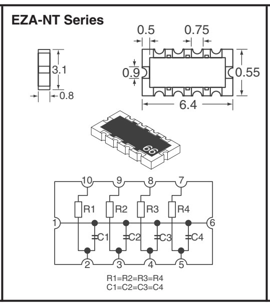

EZA-CT Series

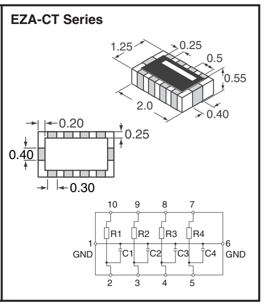

FEATURES: **EZA-CT Series:** • 4 RC circuits in one small package • 75% space savings compared to 0402 size **EZA-DT Series:** • Smallest SMD R/C networks • Four popular noise reduction circuits made from damping resistors and bypass capacitors in a smallest chip • EZAST: 4.0 x 2.1 x 0.65mm, 0.8mm pitch • EZADT: 3.2 x 1.6 x 0.65mm, 0.635mm pitch • EZANT: 6.4 x 3.1 x .80mm, 1.27mm pitch • Smaller occupied space than discrete 0402 (1.0 x 0.5 mm) • EZAST: 70% of 0402 (1.0 x 0.5mm) chips placing area • EZADT: 50% of 0402 (1.0 x 0.5mm) chips placing area • EZANT: 45% of 0805 (2.0 x 1.2mm) chips placing area **EZA-DL Series:** • Smallest SMD R/C filter for USB interface • Including 2 circuits of π type R/C filter in a chip (Chip size: 3.2 x 1.6mm) • Space saving and low placing cost **EZA-ST, EZA-DT, EZA-DL and EZA-NT Series:** • Superior mountability with concave terminal • Firm solder joint (two times of convex terminal) • Self-alignment of placement at reflow soldering **Recommended Applications for EZA-DL Series:** • Information and amusement equipment containing USB interface

SPECIFICATIONS: Resistance Tolerance: ±5% • TCR: ±200 ppm/°C • Rated Power: 0.063W (≤70°C) – *For resistors operated in ambient temperature above 70°C, rated power shall be derated* • Maximum Rated Continuous Working Voltage: 25V *(Rated Voltage for resistor shall be determined from √Rated Power x Resistance Value, or Limiting Element Voltage [Maximum Rated Continuous Working Voltage], whichever is less.)* • Capacitance Tolerance: +30%/-20% • Capacitance Temperature Characteristic: E Characteristic: +20% / -55% (-25°C ~ 85°C) • Dissipation Factor: Less than 3.% (25°C, 1kHz - *In measuring at 1MHz, capacitance and dissipation factor are different*, 1 Vrms) • Rated Voltage: EZA-NT: 50V EZA-ST: 25V EZA-DT, EZA-CT and EZA-DL: 12V • Operating Temperature Range: -25°C ~ 85°C

Res. (Ω)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
					EZA-ST Series					
22	22	PST11CT-ND	1.18	1.04	.89	.74	PST11TR-ND	4,000	414.00/M	EZA-ST11AAAJ
	47	PST12CT-ND	1.18	1.04	.89	.74	PST12TR-ND	4,000	414.00/M	EZA-ST12AAAJ
	100	PST13CT-ND◆	1.18	1.04	.89	.74	PST13TR-ND◆	4,000	414.00/M	EZA-ST13AAAJ
47	22	PST21CT-ND◆	1.18	1.04	.89	.74	PST21TR-ND◆	4,000	414.00/M	EZA-ST21AAAJ
	47	PST22CT-ND◆	1.18	1.04	.89	.74	PST22TR-ND◆	4,000	414.00/M	EZA-ST22AAAJ
	100	PST23CT-ND◆	1.18	1.04	.89	.74	PST23TR-ND◆	4,000	414.00/M	EZA-ST23AAAJ
100	22	PST31CT-ND◆	1.18	1.04	.89	.74	PST31TR-ND◆	4,000	414.00/M	EZA-ST31AAAJ
	47	PST32CT-ND	1.18	1.04	.89	.74	PST32TR-ND	4,000	414.00/M	EZA-ST32AAAJ
	100	PST33CT-ND◆	1.18	1.04	.89	.74	PST33TR-ND◆	4,000	414.00/M	EZA-ST33AAAJ
220	22	PST41CT-ND	1.18	1.04	.89	.74	PST41TR-ND	4,000	414.00/M	EZA-ST41AAAJ
	47	PST42CT-ND	1.18	1.04	.89	.74	PST42TR-ND	4,000	414.00/M	EZA-ST42AAAJ
	100	PST43CT-ND	1.18	1.04	.89	.74	PST43TR-ND	4,000	414.00/M	EZA-ST43AAAJ
470	22	PST51CT-ND	1.18	1.04	.89	.74	PST51TR-ND	4,000	414.00/M	EZA-ST51AAAJ
	47	PST52CT-ND	1.18	1.04	.89	.74	PST52TR-ND	4,000	414.00/M	EZA-ST52AAAJ
	100	PST53CT-ND◆	1.18	1.04	.89	.74	PST53TR-ND◆	4,000	414.00/M	EZA-ST53AAAJ
1K	22	PST61CT-ND	1.18	1.04	.89	.74	PST61TR-ND	4,000	414.00/M	EZA-ST61AAAJ
	47	PST62CT-ND	1.18	1.04	.89	.74	PST62TR-ND	4,000	414.00/M	EZA-ST62AAAJ
	100	PST63CT-ND◆	1.18	1.04	.89	.74	PST63TR-ND◆	4,000	414.00/M	EZA-ST63AAAJ
					EZA-DT Series					
22	22	PDT11CT-ND◆	.64	.56	.48	.40	PDT11TR-ND◆	5,000	223.00/M	EZA-DT11AAAJ
	47	PDT12CT-ND	.64	.56	.48	.40	PDT12TR-ND	5,000	223.00/M	EZA-DT12AAAJ
	100	PDT13CT-ND	.64	.56	.48	.40	PDT13TR-ND	5,000	223.00/M	EZA-DT13AAAJ
47	22	PDT21CT-ND◆	.64	.56	.48	.40	PDT21TR-ND◆	5,000	223.00/M	EZA-DT21AAAJ
	47	PDT22CT-ND◆	.64	.56	.48	.40	PDT22TR-ND◆	5,000	223.00/M	EZA-DT22AAAJ
	100	PDT23CT-ND	.64	.56	.48	.40	PDT23TR-ND	5,000	223.00/M	EZA-DT23AAAJ
100	22	PDT31CT-ND	.64	.56	.48	.40	PDT31TR-ND	5,000	223.00/M	EZA-DT31AAAJ
	47	PDT32CT-ND◆	.64	.56	.48	.40	PDT32TR-ND◆	5,000	223.00/M	EZA-DT32AAAJ
	100	PDT33CT-ND◆	.64	.56	.48	.40	PDT33TR-ND◆	5,000	223.00/M	EZA-DT33AAAJ
220	22	PDT41CT-ND	.64	.56	.48	.40	PDT41TR-ND	5,000	223.00/M	EZA-DT41AAAJ
	47	PDT42CT-ND	.64	.56	.48	.40	PDT42TR-ND	5,000	223.00/M	EZA-DT42AAAJ
	100	PDT43CT-ND	.64	.56	.48	.40	PDT43TR-ND	5,000	223.00/M	EZA-DT43AAAJ
470	22	PDT51CT-ND	.64	.56	.48	.40	PDT51TR-ND	5,000	223.00/M	EZA-DT51AAAJ
	47	PDT52CT-ND	.64	.56	.48	.40	PDT52TR-ND	5,000	223.00/M	EZA-DT52AAAJ
	100	PDT53CT-ND	.64	.56	.48	.40	PDT53TR-ND	5,000	223.00/M	EZA-DT53AAAJ
1K	22	PDT61CT-ND	.64	.56	.48	.40	PDT61TR-ND	5,000	223.00/M	EZA-DT61AAAJ
	47	PDT62CT-ND	.64	.56	.48	.40	PDT62TR-ND	5,000	223.00/M	EZA-DT62AAAJ
	100	PDT63CT-ND◆	.64	.56	.48	.40	PDT63TR-ND◆	5,000	223.00/M	EZA-DT63AAAJ
					EZA-DL Series					
27/15K	47	PDLU01CT-ND	.41	.36	.31	.26	PDLU01TR-ND	5,000	143.00/M	EZA-DLU01AAJ
15/15K		PDLU02CT-ND	.41	.36	.31	.26	PDLU02TR-ND	5,000	143.00/M	EZA-DLU02AAJ
					EZA-NT Series					
22	220	PNT14CT-ND◆	.95	.84	.72	.60	PNT14TR-ND◆	4,000	334.00/M	EZA-NT14AAAJ
	470	PNT15CT-ND◆	.95	.84	.72	.60	PNT15TR-ND◆	4,000	334.00/M	EZA-NT15AAAJ
	1000	PNT16CT-ND◆	.95	.84	.72	.60	PNT16TR-ND◆	4,000	334.00/M	EZA-NT16AAAJ
47	220	PNT24CT-ND◆	.95	.84	.72	.60	PNT24TR-ND◆	4,000	334.00/M	EZA-NT24AAAJ
	470	PNT25CT-ND◆	.95	.84	.72	.60	PNT25TR-ND◆	4,000	334.00/M	EZA-NT25AAAJ
	1000	PNT26CT-ND◆	.95	.84	.72	.60	PNT26TR-ND◆	4,000	334.00/M	EZA-NT26AAAJ
100	220	PNT34CT-ND	.95	.84	.72	.60	PNT34TR-ND	4,000	334.00/M	EZA-NT34AAAJ
	470	PNT35CT-ND	.95	.84	.72	.60	PNT35TR-ND	4,000	334.00/M	EZA-NT35AAAJ
	1000	PNT36CT-ND	.95	.84	.72	.60	PNT36TR-ND	4,000	334.00/M	EZA-NT36AAAJ
220	220	PNT44CT-ND◆	.95	.84	.72	.60	PNT44TR-ND◆	4,000	334.00/M	EZA-NT44AAAJ
	470	PNT45CT-ND◆	.95	.84	.72	.60	PNT45TR-ND◆	4,000	334.00/M	EZA-NT45AAAJ
	1000	PNT46CT-ND◆	.95	.84	.72	.60	PNT46TR-ND◆	4,000	334.00/M	EZA-NT46AAAJ
470	220	PNT54CT-ND	.95	.84	.72	.60	PNT54TR-ND	4,000	334.00/M	EZA-NT54AAAJ
	470	PNT55CT-ND	.95	.84	.72	.60	PNT55TR-ND	4,000	334.00/M	EZA-NT55AAAJ
	1000	PNT56CT-ND	.95	.84	.72	.60	PNT56TR-ND	4,000	334.00/M	EZA-NT56AAAJ
1K	220	PNT64CT-ND◆	.95	.84	.72	.60	PNT64TR-ND◆	4,000	334.00/M	EZA-NT64AAAJ
	470	PNT65CT-ND◆	.95	.84	.72	.60	PNT65TR-ND◆	4,000	334.00/M	EZA-NT65AAAJ
	1000	PNT66CT-ND◆	.95	.84	.72	.60	PNT66TR-ND◆	4,000	334.00/M	EZA-NT66AAAJ
					EZA-CT Series — RoHS Compliant					
10	10	PCT00CT-ND	.63	.56	.48	.40	PCT00TR-ND	5,000	221.00/M	EZA-CT00AAAJ
	22	PCT01CT-ND	.63	.56	.48	.40	PCT01TR-ND	5,000	221.00/M	EZA-CT01AAAJ
22	10	PCT10CT-ND	.63	.56	.48	.40	PCT10TR-ND	5,000	221.00/M	EZA-CT10AAAJ
	22	PCT11CT-ND	.63	.56	.48	.40	PCT11TR-ND	5,000	221.00/M	EZA-CT11AAAJ
47	10	PCT20CT-ND	.63	.56	.48	.40	PCT20TR-ND	5,000	221.00/M	EZA-CT20AAAJ
	22	PCT21CT-ND	.63	.56	.48	.40	PCT21TR-ND	5,000	221.00/M	EZA-CT21AAAJ
100	10	PCT30CT-ND	.63	.56	.48	.40	PCT30TR-ND	5,000	221.00/M	EZA-CT30AAAJ
	22	PCT31CT-ND	.63	.56	.48	.40	PCT31TR-ND	5,000	221.00/M	EZA-CT31AAAJ

◆ *RoHS Compliant*

YAGEO SMT Chip Resistor Arrays

Series TC164, YC122, YC124, YC164, YC248, YC324 and YC358

The resistors are constructed out of a high-grade ceramic body. Internal metal electrodes are added at each end and connected by resistive paste. The composition of the paste is adjusted to achieve an approximate resistance value, then the resistive layer is laser trimmed to the exact tolerance value. The resistive layer is covered with a protective coat. **SPECIFICATIONS**: • Resistance Tolerance: J: ±5% • Temperature Coefficient: ±200 ppm/°C • Operating Temperature Range: -55°C ~ 125°C • Maximum Working Voltage: 50V (YC324 Series: 200V) • Maximum Overload Voltage: 100V (YC324 Series: 500V) • Short Time Overload: 2.5 x RCWV for 5 seconds at 25°C • Rated continuous working voltage (RCWV) shall be determined from RCWV = $\sqrt{(P \times R)}$ or maximum RCWV listed, whichever is less.

TC164 Series

Dimensions in mm

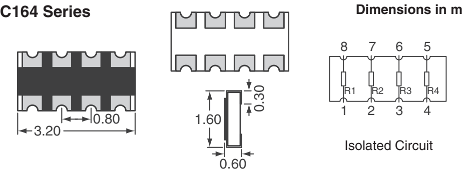

Isolated Circuit

YC122 Series

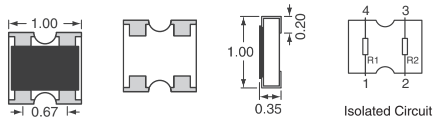

Isolated Circuit

YC124 Series

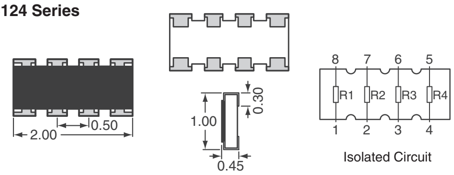

Isolated Circuit

YC164 Series

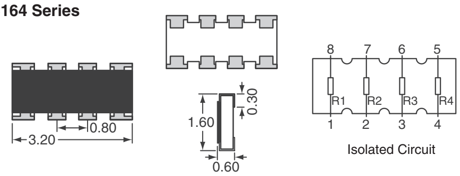

Isolated Circuit

YC248 Series

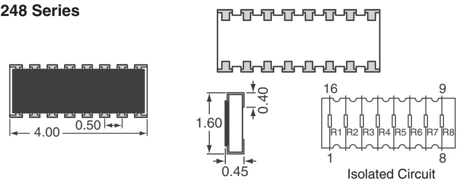

Isolated Circuit

YC324 Series

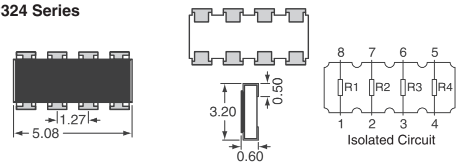

Isolated Circuit

YC358 Series

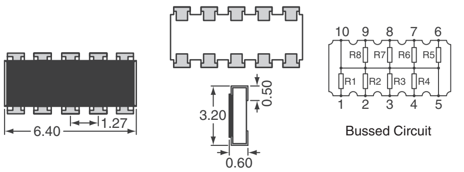

Bussed Circuit

TC164 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (0R)	39 (39R)	120 (120R)	510 (510R)	2.2K (2K2)	8.2K (8K2)	39K (39K)	180K (180K)	680K (680K)
10 (10R)	47 (47R)	150 (150R)	560 (560R)	2.7K (2K7)	10K (10K)	47K (47K)	220K (220K)	820K (820K)
12 (12R)	51 (51R)	180 (180R)	680 (680R)	3.3K (3K3)	12K (12K)	51K (51K)	270K (270K)	1.0M (1M)
15 (15R)	56 (56R)	220 (220R)	820 (820R)	3.9K (3K9)	15K (15K)	68K (68K)	330K (330K)	
18 (18R)	68 (68R)	270 (270R)	1.0K (1K)	4.7K (4K7)	18K (18K)	82K (82K)	390K (390K)	
22 (22R)	82 (82R)	330 (330R)	1.2K (1K2)	5.1K (5K1)	22K (22K)	100K (100K)	470K (470K)	
27 (27R)	100 (100R)	390 (390R)	1.5K (1K5)	5.6K (5K6)	27K (27K)	120K (120K)	510K (510K)	
33 (33R)	110 (110R)	470 (470R)	1.8K (1K8)	6.8K (6K8)	33K (33K)	150K (150K)	560K (560K)	

YC122 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (0R)	10 (10R)	39 (39R)	150 (150R)	560 (560R)	2.7K (2K7)	10K (10K)	39K (39K)	220K (220K)	1.0M (1M)
1.8 (1R8)	12 (12R)	47 (47R)	180 (180R)	680 (680R)	3.3K (3K3)	12K (12K)	47K (47K)	270K (270K)	
2.0 (2R)	15 (15R)	56 (56R)	220 (220R)	1.0K (1K)	3.9K (3K9)	15K (15K)	68K (68K)	330K (330K)	
3.0 (3R)	18 (18R)	68 (68R)	270 (270R)	1.2K (1K2)	4.7K (4K7)	18K (18K)	100K (100K)	390K (390K)	
4.7 (4R7)	22 (22R)	82 (82R)	330 (330R)	1.5K (1K5)	5.6K (5K6)	22K (22K)	120K (120K)	470K (470K)	
5.1 (5R1)	27 (27R)	100 (100R)	390 (390R)	1.8K (1K8)	6.8K (6K8)	27K (27K)	150K (150K)	680K (680K)	
5.6 (5R6)	33 (33R)	120 (120R)	470 (470R)	2.2K (2K2)	8.2K (8K2)	33K (33K)	180K (180K)	820K (820K)	

YC124 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (0R)	5.6 (5R6)	27 (27R)	100 (100R)	430 (430R)	1.6K (1K6)	6.8K (6K8)	27K (27K)	120K (120K)	560K (560K)
1.0 (1R)	6.2 (6R2)	30 (30R)	110 (110R)	470 (470R)	1.8K (1K8)	7.5K (7K5)	30K (30K)	130K (130K)	620K (620K)
1.1 (1R1)	6.8 (6R8)	33 (33R)	120 (120R)	510 (510R)	2.0K (2K)	8.2K (8K2)	33K (33K)	150K (150K)	680K (680K)
1.3 (1R3)	7.5 (7R5)	36 (36R)	130 (130R)	560 (560R)	2.2K (2K2)	10K (10K)	36K (36K)	180K (180K)	750K (750K)
2.0 (2R)	10 (10R)	39 (39R)	150 (150R)	620 (620R)	2.4K (2K4)	11K (11K)	39K (39K)	200K (200K)	820K (820K)
2.4 (2R4)	11 (11R)	43 (43R)	160 (160R)	680 (680R)	2.7K (2K7)	12K (12K)	43K (43K)	220K (220K)	1.0M (1M)
2.7 (2R7)	12 (12R)	47 (47R)	180 (180R)	750 (750R)	3.0K (3K)	13K (13K)	47K (47K)	240K (240K)	
3.0 (3R)	13 (13R)	51 (51R)	200 (200R)	820 (820R)	3.3K (3K3)	15K (15K)	51K (51K)	270K (270K)	
3.3 (3R3)	15 (15R)	56 (56R)	220 (220R)	910 (910R)	3.6K (3K6)	16K (16K)	56K (56K)	300K (300K)	
3.6 (3R6)	16 (16R)	62 (62R)	270 (270R)	1.0K (1K)	3.9K (3K9)	18K (18K)	68K (68K)	330K (330K)	
3.9 (3R9)	18 (18R)	68 (68R)	300 (300R)	1.1K (1K1)	4.3K (4K3)	20K (20K)	75K (75K)	360K (360K)	
4.3 (4R3)	20 (20R)	75 (75R)	330 (330R)	1.2K (1K2)	4.7K (4K7)	22K (22K)	82K (82K)	390K (390K)	
4.7 (4R7)	22 (22R)	82 (82R)	360 (360R)	1.3K (1K3)	5.1K (5K1)	24K (24K)	91K (91K)	430K (430K)	
5.1 (5R1)	24 (24R)	91 (91R)	390 (390R)	1.5K (1K5)	5.6K (5K6)		100K (100K)	470K (470K)	

YC164 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (0R)	11 (11R)	51 (51R)	220 (220R)	1.0K (1K)	4.3K (4K3)	20K (20K)	91K (91K)	430K (430K)
1.0 (1R)	12 (12R)	56 (56R)	240 (240R)	1.1K (1K1)	4.7K (4K7)	22K (22K)	100K (100K)	470K (470K)
1.3 (1R3)	13 (13R)	62 (62R)	270 (270R)	1.2K (1K2)	5.1K (5K1)	24K (24K)	110K (110K)	510K (510K)
2.2 (2R2)	15 (15R)	68 (68R)	300 (300R)	1.3K (1K3)	5.6K (5K6)	27K (27K)	120K (120K)	560K (560K)
2.7 (2R7)	16 (16R)	75 (75R)	330 (330R)	1.5K (1K5)	6.2K (6K2)	30K (30K)	130K (130K)	620K (620K)
3.0 (3R)	18 (18R)	82 (82R)	390 (390R)	1.6K (1K6)	6.8K (6K8)	33K (33K)	150K (150K)	680K (680K)
3.3 (3R3)	20 (20R)	91 (91R)	430 (430R)	1.8K (1K8)	7.5K (7K5)	39K (39K)	160K (160K)	750K (750K)
3.9 (3R9)	22 (22R)	100 (100R)	470 (470R)	2.0K (2K)	9.1K (9K1)	43K (43K)	180K (180K)	820K (820K)
4.7 (4R7)	24 (24R)	110 (110R)	510 (510R)	2.2K (2K2)	10K (10K)	47K (47K)	200K (200K)	910K (910K)
5.1 (5R1)	27 (27R)	120 (120R)	560 (560R)	2.4K (2K4)	11K (11K)	51K (51K)	220K (220K)	1.0M (1M)
5.6 (5R6)	30 (30R)	130 (130R)	620 (620R)	2.7K (2K7)	12K (12K)	56K (56K)	240K (240K)	
6.8 (6R8)	33 (33R)	150 (150R)	680 (680R)	3.0K (3K)	13K (13K)	62K (62K)	270K (270K)	
7.5 (7R5)	39 (39R)	160 (160R)	750 (750R)	3.3K (3K3)	15K (15K)	68K (68K)	330K (330K)	
8.2 (8R2)	43 (43R)	180 (180R)	820 (820R)	3.6K (3K6)	16K (16K)	75K (75K)	360K (360K)	
10 (10R)	47 (47R)	200 (200R)	910 (910R)	3.9K (3K9)	18K (18K)	82K (82K)	390K (390K)	

YC248 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (0R)	39 (39R)	180 (180R)	820 (820R)	4.7K (4K7)	22K (22K)	100K (100K)	470K (470K)
10 (10R)	47 (47R)	220 (220R)	1.0K (1K)	5.6K (5K6)	27K (27K)	120K (120K)	560K (560K)
12 (12R)	56 (56R)	270 (270R)	1.2K (1K2)	6.8K (6K8)	33K (33K)	150K (150K)	680K (680K)
15 (15R)	68 (68R)	330 (330R)	1.5K (1K5)	8.2K (8K2)	39K (39K)	180K (180K)	820K (820K)
18 (18R)	82 (82R)	390 (390R)	1.8K (1K8)	10K (10K)	47K (47K)	220K (220K)	1.0M (1M)
22 (22R)	100 (100R)	470 (470R)	2.2K (2K2)	12K (12K)	56K (56K)	270K (270K)	
27 (27R)	120 (120R)	560 (560R)	3.3K (3K3)	15K (15K)	68K (68K)	330K (330K)	
33 (33R)	150 (150R)	680 (680R)	3.9K (3K9)	18K (18K)	82K (82K)	390K (390K)	

YC324 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (10R)	30 (30R)	56 (56R)	150 (150R)	330 (330R)	680 (680R)	2.0K (2K)	5.1K (5K1)	20K (20K)	100K (100K)
15 (15R)	33 (33R)	68 (68R)	180 (180R)	390 (390R)	750 (750R)	2.2K (2K2)	5.6K (5K6)	22K (22K)	270K (270K)
18 (18R)	39 (39R)	82 (82R)	200 (200R)	470 (470R)	820 (820R)	2.7K (2K7)	6.2K (6K2)	33K (33K)	510K (510K)
22 (22R)	43 (43R)	100 (100R)	220 (220R)	510 (510R)	1.0K (1K)	3.3K (3K3)	6.8K (6K8)	47K (47K)	1.0M (1M)
24 (24R)	47 (47R)	110 (110R)	270 (270R)	560 (560R)	1.2K (1K2)	3.9K (3K9)	10K (10K)	56K (56K)	
27 (27R)	51 (51R)	120 (120R)	300 (300R)	620 (620R)	1.5K (1K5)	4.7K (4K7)	15K (15K)	68K (68K)	

YC358 Series Resistor Value Chart

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
56 (56R)	220 (220R)	510 (510R)	1.8K (1K8)	2.7K (2K7)	5.6K (5K6)	22K (22K)
100 (100R)	330 (330R)	1.0K (1K)	2.0K (2K)	3.3K (3K3)	8.2K (8K2)	47K (47K)
150 (150R)	470 (470R)	1.5K (1K5)	2.2K (2K2)	4.7K (4K7)	10K (10K)	100K (100K)

Series	No. of Terminals	No. of Resistors	Resistor Value Range (Ω)	Resistor Power Rating (mW @ 70°C)	Digi-Key* Part No.	Cut Tape Pricing 10	100	500	Digi-Key* Part No.	Tape and Reel Qty.	Pricing	Yageo Part No.
TC164	8	4	0.0, 10 ~ 1.0M	63	TC164J-(Value)CT-ND	.13	1.12	4.00	TC164J-(Value)TR-ND	5,000	5.00/M	TC164-JR-07(Code)L
YC122	4	2	0.0 ~ 1.0M	63	YC122J-(Value)CT-ND	.52	4.47	18.63	YC122J-(Value)TR-ND	10,000	26.00/M	YC122-JR-07(Code)L
YC124	8	4	0.0 ~ 1.0M	63	YC124J-(Value)CT-ND	.51	4.48	16.00	YC124J-(Value)TR-ND	10,000	18.00/M	YC124-JR-07(Code)L
YC164	8	4	0.0 ~ 1.0M	63	YC164J-(Value)CT-ND	.11	.98	3.50	YC164J-(Value)TR-ND	5,000	5.00/M	YC164-JR-07(Code)L
YC248	16	8	0.0, 10 ~ 1.0M	63	YC248J-(Value)CT-ND	1.01	8.64	36.00	YC248J-(Value)TR-ND	5,000	50.00/M	YC248-JR-07(Code)L
YC324	8	4	10 ~ 1.0M	125	YC324J-(Value)CT-ND	1.75	15.00	62.50	YC324J-(Value)TR-ND	4,000	88.00/M	YC324-JK-07(Code)L
YC358	10	8	56 ~ 100K	63	YC358T-(Value)CT-ND	2.21	18.90	78.75	YC358T-(Value)TR-ND	4,000	110.00/M	YC358TJK-07(Code)L

* For complete Digi-Key part number, substitute Digi-Key value from Resistance Value Chart for (Value).

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount Chip Resistor Arrays

The CRA thick film resistor arrays are constructed on a high grade ceramic body with concave or convex terminals. A small package enables the design of high density circuits. The single component reduces board space, component counts and assembly costs.

Features: • Squared corners (CRA12E083 scalloped corners) • 4 and 8 terminal packages with isolated resistors • Lead (Pb)-free solder contacts on Ni barrier layer **Specifications:** • Limiting Element Voltage: 50V • Temperature Coefficient: ±200ppm/K • Tolerance: ±5% • Temperature Range: -55°C ~ 155°C • Insulation Resistance: >10⁹Ω

Dimensions in mm

CRA04P083 Series

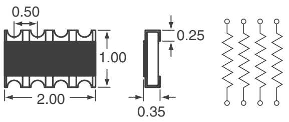

Terminals: Concave

CRA04S043 Series

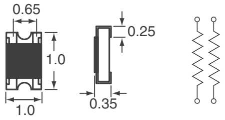

Terminals: Convex

CRA04S083 Series

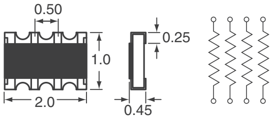

Terminals: Convex

CRA06P043 Series

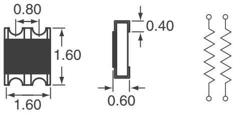

Terminals: Concave

CRA06P083 Series

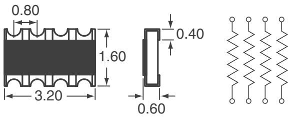

Terminals: Concave

CRA06S043 Series

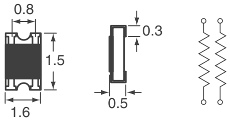

Terminals: Convex

CRA06S083 Series

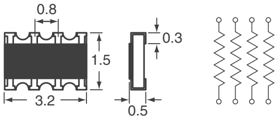

Terminals: Convex

CRA12E083 Series

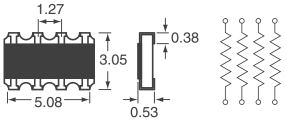

Terminals: Convex

Resistance Values (Ω)
CRA04P083 Series

0.0	68	680	15K	470K
10	82	1.0K	22K	680K
15	100	1.5K	33K	1.0M
22	150	2.2K	47K	
27	220	2.7K	68K	
33	270	3.3K	100K	
39	330	4.7K	150K	
47	470	6.8K	180K	
51	510	8.2K	220K	
56	560	10K	330K	

Resistance Values (Ω)
CRA04S043 Series

0.0	200	10K	470K
10	330	15K	680K
15	470	22K	1.0M
22	680	33K	
33	1.0K	47K	
47	1.5K	68K	
56	2.2K	100K	
68	3.3K	150K	
100	4.7K	220K	
150	6.8K	330K	

Resistance Values (Ω)
CRA04S083 Series

0.0	20	43	91	200	430	910	2.0K	4.3K	9.1K	20K	43K	91K	200K	430K	910K
10	22	47	100	220	470	1.0K	2.2K	4.7K	10K	22K	47K	100K	220K	470K	1.0M
11	24	51	110	240	510	1.1K	2.4K	5.1K	11K	24K	51K	110K	240K	510K	
12	27	56	120	270	560	1.2K	2.7K	5.6K	12K	27K	56K	120K	270K	560K	
13	30	62	130	300	620	1.3K	3.0K	6.2K	13K	30K	62K	130K	300K	620K	
15	33	68	150	330	680	1.5K	3.3K	6.8K	15K	33K	68K	150K	330K	680K	
16	36	75	160	360	750	1.6K	3.6K	7.5K	16K	36K	75K	160K	360K	750K	
18	39	82	180	390	820	1.8K	3.9K	8.2K	18K	39K	82K	180K	390K	820K	

Resistance Values (Ω)
CRA06P043 Series

22
33
47
220
1.0K
2.2K
10K
47K
100K

Resistance Values (Ω)
CRA06P083 Series

0.0	51	330	1.8K	10K	120K
10	56	390	2.2K	12K	150K
12	68	470	2.7K	15K	180K
15	100	510	3.3K	22K	220K
18	110	560	3.9K	27K	270K
22	120	680	4.7K	33K	330K
27	150	820	5.1K	47K	470K
33	180	1.0K	5.6K	51K	680K
39	220	1.2K	6.8K	68K	1.0M
47	270	1.5K	8.2K	100K	

Resistance Values (Ω)
CRA06S043 Series

0.0	220	6.8K	330K
10	270	10K	470K
15	330	15K	680K
22	470	20K	1.0M
33	680	30K	
47	1.0K	47K	
68	1.5K	68K	
75	2.2K	100K	
100	3.3K	150K	
150	4.7K	220K	

Resistance Values (Ω)
CRA06S083 Series

0.0	24	62	160	430	1.1K	3.0K	7.5K	20K	51K	130K	360K	910K
10	27	68	180	470	1.2K	3.3K	8.2K	22K	56K	150K	390K	1.0M
11	30	75	200	510	1.3K	3.6K	9.1K	24K	62K	160K	430K	
12	33	82	220	560	1.5K	3.9K	10K	27K	68K	180K	470K	
13	36	91	240	620	1.6K	4.3K	11K	30K	75K	200K	510K	
15	39	100	270	680	1.8K	4.7K	12K	33K	82K	220K	560K	
16	43	110	300	750	2.0K	5.1K	13K	36K	91K	240K	620K	
18	47	120	330	820	2.2K	5.6K	15K	39K	100K	270K	680K	
20	51	130	360	910	2.4K	6.2K	16K	43K	110K	300K	750K	
22	56	150	390	1.0K	2.7K	6.8K	18K	47K	120K	330K	820K	

Resistance Values (Ω)
CRA12E083 Series

0.0	330	15K	680K
10	470	22K	1.0M
15	680	33K	
22	1.0K	47K	
33	1.5K	68K	
47	2.2K	100K	
68	3.3K	150K	
100	4.7K	220K	
150	6.8K	330K	
220	10K	470K	

Series	No. of Terminals	No. of Resistors	Resistor Power Rating (mW@70°C)	Resistor Value Range (Ω)	Digi-Key Part No.†	Cut Tape Pricing 10	50	100	500	Digi-Key Part No.†	Tape and Reel Qty.	Pricing
CRA04P083	8	4	63	0.0 ~ 1.0M	CRA4P8**(Value)**CT-ND	.48	1.78	3.07	12.45	CRA4P8**(Value)**TR-ND	10,000	17.00/M
CRA04S043	4	2	63	0.0 ~ 1.0M	CRA4S4**(Value)**CT-ND	.36	1.35	2.33	9.45	CRA4S4**(Value)**TR-ND	10,000	13.00/M
CRA04S083	8	4	63	0.0 ~ 1.0M	CRA4S8**(Value)**CT-ND	.36	1.35	2.33	9.45	CRA4S8**(Value)**TR-ND	10,000	13.00/M
CRA06P043	4	2	63	22 ~ 100K	CRA6P4**(Value)**CT-ND	.48	1.78	3.07	12.45	CRA6P4**(Value)**TR-ND	5,000	17.00/M
CRA06P083	8	4	63	0.0 ~ 1.0M	CRA6P8**(Value)**CT-ND	.48	1.78	3.07	12.45	CRA6P8**(Value)**TR-ND	5,000	17.00/M
CRA06S043	4	2	63	0.0 ~ 1.0M	CRA6S4**(Value)**CT-ND	.34	1.27	2.18	8.85	CRA6S4**(Value)**TR-ND	5,000	12.00/M
CRA06S083	8	4	63	0.0 ~ 1.0M	CRA6S8**(Value)**CT-ND	.23	.86	1.48	6.00	CRA6S8**(Value)**TR-ND	5,000	8.00/M
CRA12E083	8	4	100	0.0 ~ 1.0M	CRA12E8**(Value)**CT-ND	2.30	8.60	14.80	60.00	CRA12E8**(Value)**TR-ND	2,000	80.00/M

† For complete Digi-Key part number, substitute Digi-Key value from Resistance Value Chart for (Value).

Chip Resistor Arrays

Digi-Reel® *RoHS Compliant Parts Available*

Dim. in mm

MNR02 SERIES

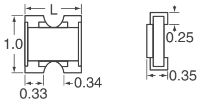

- Circuit Type: Isolated
- Max. Operating Voltage: 25V

MNR04 SERIES

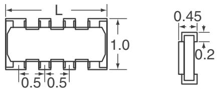

- Circuit Type: Isolated
- Max. Operating Voltage: 25V

MNR12 SERIES

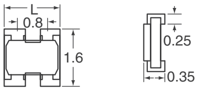

- Circuit Type: Isolated
- Max. Operating Voltage: 50V

MNR14 SERIES

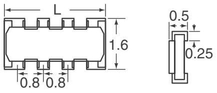

- Circuit Type: Isolated
- Max. Operating Voltage: 50V

MNR15 SERIES

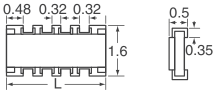

- Circuit Type: Bussed
- Max. Operating Voltage: 12.5V

MNR18 SERIES

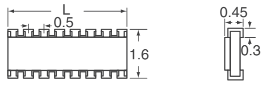

- Circuit Type: Isolated
- Max. Operating Voltage: 25V

MNR32 SERIES

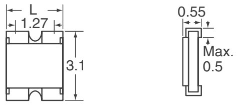

- Circuit Type: Isolated
- Max. Operating Voltage: 200V

MNR34 SERIES

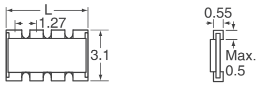

- Circuit Type: Isolated
- Max. Operating Voltage: 200V

MNR35 SERIES

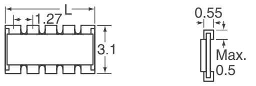

- Circuit Type: Bussed
- Max. Operating Voltage: 50V

Series MNR02, MNR12 and MNR32

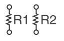

R1 = R2

Series MNR04, MNR14 and MNR34

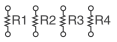

R1 = R2 = R3 = R4

Series MNR15

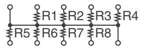

R1=R2=R3=R4=R5=R6=R7=R8

Series MNR18

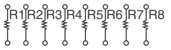

R1=R2=R3=R4=R5=R6=R7=R8

Series MNR35

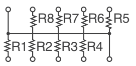

R1=R2=R3=R4=R5=R6=R7=R8

Resistance Values (Ω)
MNR02 Series

Value (Code)	Value (Code)
0.0 (000)◆	100 (101)◆
10 (100)◆	1.0K (102)◆
22 (220)◆	4.7K (472)◆
33 (330)◆	10K (103)◆
56 (560)◆	47K (473)◆

Resistance Values (Ω)
MNR04 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)◆	27 (270)◆	56 (560)◆	150 (151)◆	820 (821)◆	4.7K (472)◆	33K (333)◆
10 (100)◆	30 (300)◆	62 (620)◆	220 (221)◆	1.0K (102)◆	5.1K (512)◆	47K (473)◆
12 (120)◆	33 (330)◆	68 (680)◆	240 (241)◆	1.2K (122)◆	6.8K (682)◆	51K (513)◆
15 (150)◆	39 (390)◆	75 (750)◆	300 (301)◆	1.5K (152)◆	8.2K (822)◆	56K (563)◆
18 (180)◆	43 (430)◆	82 (820)◆	330 (331)◆	2.2K (222)◆	10K (103)◆	100K (104)◆
22 (220)◆	47 (470)◆	100 (101)◆	470 (471)◆	2.7K (272)◆	15K (153)◆	1.0M (105)◆
24 (240)◆	51 (510)◆	120 (121)◆	680 (681)◆	3.0K (302)◆	22K (223)◆	

Resistance Values (Ω)
MNR12 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	39 (390)	100 (101)	360 (361)	1.2K (122)	10K (103)	150K (154)
10 (100)	47 (470)	130 (131)	470 (471)	1.8K (182)	15K (153)	220K (224)
18 (180)	51 (510)	150 (151)	510 (511)	2.0K (202)	22K (223)	1.0M (105)
22 (220)	56 (560)	220 (221)	680 (681)	2.2K (222)	39K (393)	
27 (270)	68 (680)	270 (271)	820 (821)	2.4K (242)	47K (473)	
33 (330)	75 (750)	330 (331)	1.0K (102)	4.7K (472)	100K (104)	

Resistance Values (Ω)
MNR14 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)◆	36 (360)◆	220 (221)◆	1.3K (132)◆	8.2K (822)◆	51K (513)◆	360K (364)◆
2.2 (2R2)◆	39 (390)◆	240 (241)◆	1.5K (152)◆	9.1K (912)◆	56K (563)◆	390K (394)◆
3.0 (3R0)◆	43 (430)◆	270 (271)◆	1.6K (162)◆	10K (103)◆	62K (623)◆	430K (434)◆
3.3 (3R3)	47 (470)◆	300 (301)◆	1.8K (182)◆	11K (113)◆	68K (683)◆	470K (474)◆
4.7 (4R7)◆	51 (510)◆	330 (331)◆	2.0K (202)◆	12K (123)◆	75K (753)◆	510K (514)◆
6.8 (6R8)◆	56 (560)◆	360 (361)◆	2.2K (222)◆	13K (133)◆	82K (823)◆	560K (564)◆
10 (100)◆	62 (620)◆	390 (391)◆	2.4K (242)◆	15K (153)◆	91K (913)◆	620K (624)◆
11 (110)◆	68 (680)◆	430 (431)◆	2.7K (272)◆	16K (163)◆	100K (104)◆	680K (684)◆
12 (120)◆	75 (750)◆	470 (471)◆	3.0K (302)◆	18K (183)◆	110K (114)◆	750K (754)◆
13 (130)◆	82 (820)◆	510 (511)◆	3.3K (332)◆	20K (203)◆	120K (124)◆	820K (824)◆
15 (150)◆	91 (910)◆	560 (561)◆	3.6K (362)◆	22K (223)◆	130K (134)◆	910K (914)◆
16 (160)◆	100 (101)◆	620 (621)◆	3.9K (392)◆	24K (243)◆	150K (154)◆	1.0M (105)◆
18 (180)◆	110 (111)◆	680 (681)◆	4.3K (432)◆	27K (273)◆	160K (164)◆	
20 (200)◆	120 (121)◆	750 (751)◆	4.7K (472)◆	30K (303)◆	180K (184)◆	
22 (220)◆	130 (131)◆	820 (821)◆	5.1K (512)◆	33K (333)◆	200K (204)◆	
24 (240)◆	150 (151)◆	910 (911)◆	5.6K (562)◆	36K (363)◆	220K (224)◆	
27 (270)◆	160 (161)◆	1.0K (102)◆	6.2K (622)◆	39K (393)◆	240K (244)◆	
30 (300)◆	180 (181)◆	1.1K (112)◆	6.8K (682)◆	43K (433)◆	300K (304)◆	
33 (330)◆	200 (201)◆	1.2K (122)◆	7.5K (752)◆	47K (473)◆	330K (334)◆	

Resistance Values (Ω)
MNR15 Series Chip Arrays

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
56 (560)	330 (331)	560 (561)	1.8K (182)	4.7K (472)	18K (183)	68K (683)
100 (101)	390 (391)	680 (681)	2.0K (202)	5.1K (512)	20K (203)	100K (104)
150 (151)	430 (431)	1.0K (102)	2.2K (222)	5.6K (562)	22K (223)	
220 (221)	470 (471)	1.2K (122)	2.7K (272)	8.2K (822)	33K (333)	
300 (301)	510 (511)	1.5K (152)	3.3K (332)	10K (103)	47K (473)	

Resistance Values (Ω)
MNR18 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	30 (300)	56 (560)	200 (201)	1.0K (102)	5.1K (512)	47K (473)
12 (120)	33 (330)	62 (620)	220 (221)	1.2K (122)	6.8K (682)	51K (513)
15 (150)	36 (360)	68 (680)	240 (241)	1.5K (152)	8.2K (822)	56K (563)
18 (180)	39 (390)	75 (750)	300 (301)	2.0K (202)	10K (103)	100K (104)
20 (200)	43 (430)	82 (820)	330 (331)	2.2K (222)	15K (153)	1.0M (105)
22 (220)	47 (470)	100 (101)	470 (471)	2.7K (272)	20K (203)	
24 (240)	50 (500)	120 (121)	680 (681)	3.0K (302)	22K (223)	
27 (270)	51 (510)	150 (151)	820 (821)	4.7K (472)	33K (333)	

Resistance Values (Ω)
MNR32 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)
39 (390)	270 (271)	132 (1.3K)	4.7K (472)
100 (101)	470 (471)	182 (1.8K)	10K (103)
180 (181)	1.0K (102)	392 (3.9K)	47K (473)

Resistance Values (Ω)
MNR34 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	36 (360)	110 (111)	470 (471)	1.8K (182)	6.8K (682)	56K (563)
10 (100)	39 (390)	120 (121)	510 (511)	2.0K (202)	8.2K (822)	68K (683)
15 (150)	43 (430)	150 (151)	560 (561)	2.2K (222)	10K (103)	100K (104)
16 (160)	47 (470)	180 (181)	620 (621)	2.7K (272)	15K (153)	270K (274)
18 (180)	51 (510)	200 (201)	680 (681)	3.3K (332)	18K (183)	510K (514)
22 (220)	56 (560)	220 (221)	750 (751)	3.9K (392)	20K (203)	1.0M (105)
24 (240)	68 (680)	270 (271)	820 (821)	4.7K (472)	22K (223)	
27 (270)	82 (820)	300 (301)	1.0K (102)	5.1K (512)	33K (333)	
30 (300)	91 (910)	330 (331)	1.2K (122)	5.6K (562)	39K (393)	
33 (330)	100 (101)	390 (391)	1.5K (152)	6.2K (622)	47K (473)	

Resistance Values (Ω)
MNR35 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
56 (560)	330 (331)	680 (681)	2.0K (202)	5.6K (562)	22K (223)
100 (101)	430 (431)	1.0K (102)	2.2K (222)	8.2K (822)	33K (333)
150 (151)	470 (471)	1.2K (122)	2.7K (272)	10K (103)	47K (473)
220 (221)	510 (511)	1.5K (152)	3.3K (332)	18K (183)	68K (683)
300 (301)	560 (561)	1.8K (182)	4.7K (472)	20K (203)	100K (104)

Series	Number of Terminals	Number of Resistors	Dimension L (mm)	Resistor Power Rating‡ (mW@70°C)	Digi-Key Part No.†	Cut Tape Pricing			Digi-Key Part No.†	Tape and Reel Pricing		
						10	100	1,000		4,000	5,000	10,000
MNR02	4	2	1.0	63	MNR02**(Code)**CT-ND	.32	2.53	21.62	MNR02**(Code)**TR-ND	—	—	16.00/M
MNR02	4	2	1.0	63	MNR02**(Code)**RCT-ND◆	.24	1.90	16.22	MNR02**(Code)**RTR-ND◆	—	—	12.00/M
MNR04	8	4	2.0	63	MNR04**(Code)**CT-ND	.36	2.85	24.32	MNR04**(Code)**TR-ND	—	—	18.00/M
MNR04	8	4	2.0	63	MNR04**(Code)**RCT-ND◆	.18	1.42	12.17	MNR04**(Code)**RTR-ND◆	—	—	9.00/M
MNR12	4	2	1.6	63	MNR12**(Code)**CT-ND	.20	1.58	13.51	MNR12**(Code)**TR-ND	—	12.00/M	10.00/M
MNR14	8	4	3.2	63	MNR14**(Code)**CT-ND	.20	1.58	13.51	MNR14**(Code)**TR-ND	—	12.00/M	10.00/M
MNR14	8	4	3.2	63	MNR14**(Code)**RCT-ND◆	.19	1.52	12.97	MNR14**(Code)**RTR-ND◆	—	11.00/M	10.00/M
MNR15	10	8	3.2	31	MNR15**(Code)**CT-ND	1.37	10.75	91.89	MNR15**(Code)**TR-ND	—	78.00/M	68.00/M
MNR18	16	8	3.8	63	MNR18**(Code)**CT-ND	.81	6.33	54.05	MNR18**(Code)**TR-ND	—	46.00/M	40.00/M
MNR32	4	2	2.6	125	MNR32**(Code)**CT-ND	1.21	9.49	81.08	MNR32**(Code)**TR-ND	69.00/M	—	—
MNR34	8	4	5.2	125	MNR34**(Code)**CT-ND	1.37	10.75	91.89	MNR34**(Code)**TR-ND	78.00/M	—	—
MNR35	10	8	6.4	63	MNR35**(Code)**CT-ND	2.86	22.45	191.88	MNR35**(Code)**TR-ND	163.00/M	—	—

† For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◆ Values also available as **Resin Overcoated** – which are also RoHS Compliant ‡ Note: Total Rated Package Power equals total number of resistors times rated Power per Resistor.

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Molded SOT-23 SMT Resistor Divider Network

MPM Series Dividers

Vishay Thin Film MPM Series Dividers provide ±2ppm/°C tracking and a ratio tolerance of 0.05%, small size, and exceptional stability for all surface mount applications. The standard SOT-23 package format with unity and common standard resistance divider ratios provides easy selection for more applications requiring matched pair resistor elements.

Mechanical Specifications:

- Resistive Element: Passivated Nichrome • Substrate Material: Silicon • Body: Molded epoxy

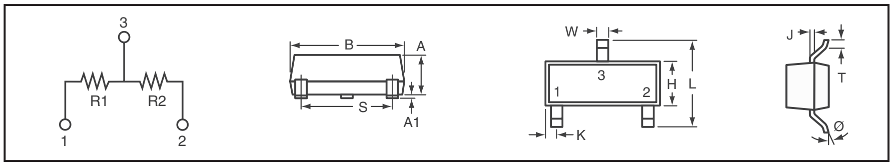

MPM Series	Dimensions – mm	
	Minimum	Maximum
A	0.79	1.02
A1	0.02	0.10
B	2.67	3.05
S	1.80	2.00
W	0.38	0.54
L	2.10	2.50
H	1.20	1.40
T	0.13	0.25
J	0.089	0.15
K	0.44	0.55
ø	0	8°

Standard Resistor Divider Network Values (Ω) – R_1/R_2

R_1/R_2	Ratio	R_1/R_2	Ratio	R_1/R_2	Ratio	R_1/R_2	Ratio	R_1/R_2	Ratio
250/250	1:1	4K/4K	1:1	50K/50K	1:1	2K/8K	1:4	1K/10K	1:10
500/500	1:1	5K/5K	1:1	100K/100K	1:1	1K/5K	1:5	1K/20K	1:20
1K/1K	1:1	10K/10K	1:1	1K/2K	1:2	2K/10K	1:5	1K/25K	1:25
2K/2K	1:1	20K/20K	1:1	5K/10K	1:2	1K/6K	1:6	1K/50K	1:50
2.5K/2.5K	1:1	25K/25K	1:1	1K/4K	1:4	1K/9K	1:9	1K/100K	1:100

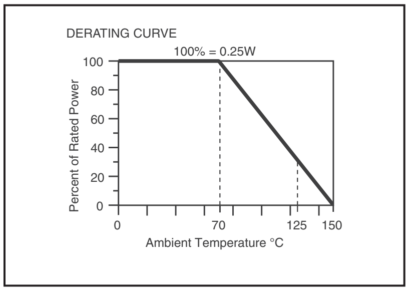

Voltage Coefficient	Working Voltage (Maximum)	Operating Temperature Range	Noise	Thermal EMF
0.1ppm/V	100V	-55°C ~ 125°C	<-30dB	0.2µV/°C

Value Range (Ω)	TCR		Tolerance		Power Rating Max. @ 70°C		Stability 2,000H @ 70°C		Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing	Vishay Thin Film
	Tracking	Abs.	Ratio	Abs.	Resistor	Pkg.	ΔR Abs.	ΔR Ratio	Part No.†	1	25	100	Part No.†	1,000	Part No.
250/250 ~ 100K/100K	±2ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW‡	200mW	0.10%	0.03%	MPMT-**(R_1 Value/R_2 Value)**CT-ND	5.15	4.10	3.83	MPMT-**(R_1 Value/R_2 Value)**TR-ND	1683.00	MPMTxxxxAT1
1K/2K ~ 1K/10K									MPMT-**(R_1 Value/R_2 Value)**CT-ND	5.69	4.53	4.24	MPMT-**(R_1 Value/R_2 Value)**TR-ND	1862.00	MPMTxxxxxxxxAT1
1K/20K ~ 1K/100K									MPMT-**(R_1 Value/R_2 Value)**CT-ND	6.93	5.75	5.45	MPMT-**(R_1 Value/R_2 Value)**TR-ND	1825.00	MPMTxxxxxxxxAT1

† For complete part number, substitute the value from Standard Resistor Divider Network Values chart for **(R_1 Value/R_2 Value)**. ‡ Per element typical

Molded Dual-In-Line SMT Resistor Network (25 Mil Pitch)

OSOP Series

OSOP Series resistor networks feature a space-saving 25 Mil lead pitch versus the current 50 Mil pitch standard. This allows users to reduce board space more than 50% over current standards. The OSOP Series features 10 isolated resistors in a 20 lead style.

Features:

- 0.068" (1.73mm) maximum seated height
- Rugged molded case construction with no internal solder
- Thin film element
- JEDEC MO #137 Package AD

Mechanical Specificiations:

- Resistive Element: Passivated Nichrome
- Substrate Material: Silicon
- Body: Molded epoxy

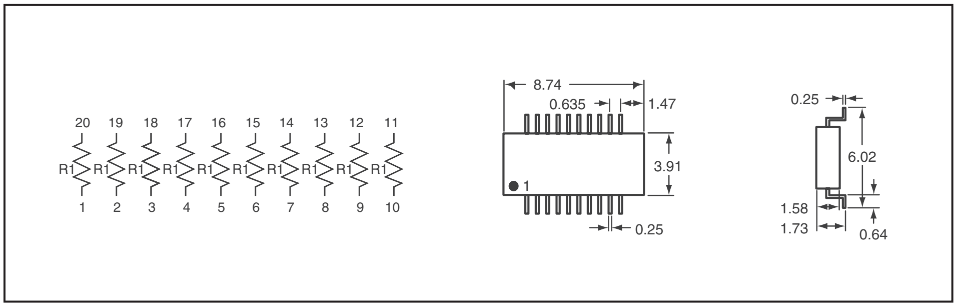

Standard Resistor Values (Ω)

500	2.0K	10K	50K
1.0K	5.0K	20K	100K

Voltage Coefficient	Working Voltage (Maximum)	Operating Temperature Range	Noise	Thermal EMF
< 0.1ppm/V typical	100V	-55°C ~ 125°C	< -30dB	0.08µV/°

Value Range (Ω)	TCR		Tolerance		Power Rating Maximum @ 70°C		Stability 2,000H @ 70°C		Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing	Vishay Thin Film
	Tracking	Abs.	Ratio	Abs.	Resistor	Pkg.	ΔR Abs.	ΔR Ratio	Part No.†	1	25	100	Part No.†	1,000	Part No.
500	±5ppm/°C	±25ppm/°C	±0.1%	±0.1%	100mW‡	400mW	500ppm	150ppm	OSOPT-**(Value)**BCT-ND	5.78	4.79	4.54	OSOPT-**(Value)**BTR-ND	2063.00	OSOPTAxxxxAT1
1.0K ~ 100K	±5ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW‡	400mW	500ppm	150ppm	OSOPT-**(Value)**ACT-ND	6.13	5.08	4.82	OSOPT-**(Value)**ATR-ND	2188.00	OSOPTAxxxxAT1

† For complete part number, substitute the value from Standard Resistor Values chart for **(Value)**. ‡ Per element typical

Molded Narrow Body Dual-In-Line SMT Resistor Networks (50 Mil Pitch)

NOMC Series

RoHS COMPLIANT

The NOMC Series features a standard 16-pin narrow body (0.150"), small outline surface mount style. It can accommodate resistor networks to your particular application requirements. The networks can be constructed with Passivated Nichrome or Tantalum Nitride resistor films to optimize performance.

Features:

- Standard 16-pin (0.150" Narrow Body) JEDEC MS-012
- Rugged molded case construction
- Stable thin film element (500ppm @ 70°C at 2,000H)
- Low temperature coefficient (±25ppm/°C)

Mechanical Specifications:

- Resistive Element: Passivated Nichrome or Tantalum Nitride
- Substrate Material: Silicon
- Body: Molded epoxy

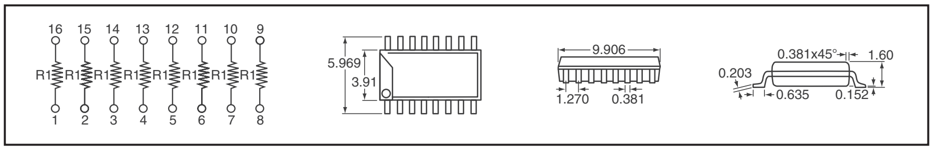

Voltage Coefficient	Working Voltage (Maximum)	Operating Temperature Range	Noise	Thermal EMF
<0.1ppm/V	50V	-55°C ~ 125°C	< -30dB	0.08µV/°C

Standard Resistor Values (Ω)

1.0K	5.0K	20K
2.0K	10K	100K

Value Range (Ω)	TCR		Tolerance		Power Rating Maximum @ 70°C		Stability 2,000H @ 70°C		Digi-Key Part No.†	Cut Tape Price Each			Digi-Key Part No.†	Tape and Reel Pricing 1,000	Vishay Thin Film Part No.
	Tracking	Abs.	Ratio	Abs.	Resistor	Pkg.	ΔR Abs.	ΔR Ratio		1	25	100			
1K ~ 100K	±5ppm/°C	±25ppm/°C	±0.05%	±0.1%	50mW‡	500mW	500ppm	150ppm	NOMCT16-**(Value)**ACT-ND	5.60	4.64	4.40	NOMCT16-**(Value)**ATR-ND	2000.00	NOMCTxxxxxxxxAT1

† For complete part number, substitute the value from Standard Resistor Values chart for **(Value)**. ‡ Per element typical

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Molded Dual-In-Line SMT Resistor Networks (50 Mil Pitch) – ORN Series

RoHS COMPLIANT

ORN Series resistor networks feature four isolated resistors with standard 50 mil pitch lead spacing. The networks feature close TCR tracking and tight ratio tolerance and are ideally suited for unity gain operational amplifier circuitry.

Features:

- 0.068" (1.73mm) maximum seated height
- Rugged molded case construction with no internal solder
- Thin film passivity Microbe element
- Low temperature coefficient (±25ppm/°C)
- JEDEC MS-012 STD Package

Mechanical Specifications:

- Resistive Element: Passivated Nichrome
- Body: Molded epoxy

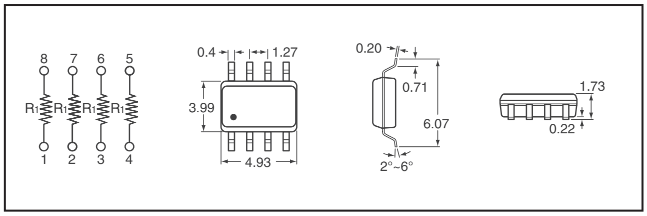

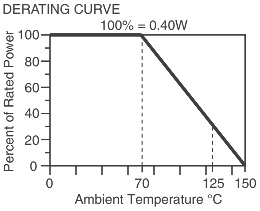

Voltage Coefficient	Working Voltage (Maximum)	Operating Temperature Range	Noise	Thermal EMF
0.1ppm/V typical	50V	-55°C ~ 125°C	< -30dB	0.08µV/°C

Standard Resistor Values (Ω)

500	4.99K	20K
1.0K	5.0K	50K
2.0K	10K	100K

Value Range (Ω)	TCR		Tolerance		Power Rating Maximum @ 70°C		Stability 2,000H @ 70°C		Digi-Key Part No.†	Cut Tape Price Each			Digi-Key Part No.†	Tape and Reel Pricing 1,000	Vishay Part No.
	Tracking	Abs.	Ratio	Abs.	Resistor	Pkg.	ΔR Abs.	ΔR Ratio		1	25	100			
500 ~ 100K	±5ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW‡	400mW	500ppm	150ppm	ORNT-**(Value)**ACT-ND	5.38	4.28	4.01	ORNT-**(Value)**ATR-ND	1760.00	ORNTAxxxxAT1

† For complete part number, substitute the value from Standard Resistor Values chart for **(Value)**. ‡ Per element typical

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Molded Dual-In-Line SMT Resistor Divider Networks (50 Mil Pitch)

ORN Series Dividers

RoHS COMPLIANT

Vishay Thin Film ORN Series Dividers provide optimum ratio precision, small size and exceptional stability for most applications. The tight ratio tolerance offered on the standard ratios will provide exceptional performance throughout life.

Features:

- 0.068" (1.73mm) maximum seated height
- Rugged molded case construction with no internal solder (JEDEC MS-012 standard)
- Thin film passivity Microbe element
- Low temperature coefficient (±25ppm/°C)

Mechanical Specifications:

- Resistive Element: Passivated Nichrome
- Body: Molded epoxy

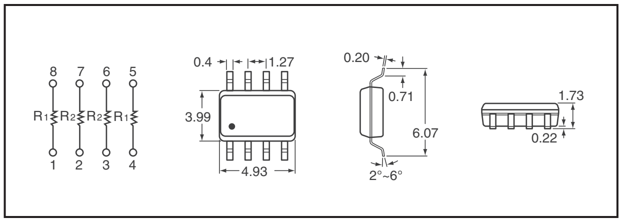

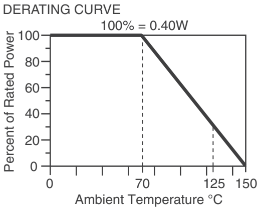

Voltage Coefficient	Working Voltage (Maximum)	Operating Temperature Range	Noise	Thermal EMF
< 0.1ppm/V	50V	-55°C ~ 125°C	< -30dB	0.08µV/°C

Standard Resistor Divider Network Values (Ω) – R_1/R_2

R_1/R_2	Ratio	R_1/R_2	Ratio
10K/5K	2:1	25K/1K	25:1
10K/2K	5:1	50K/1K	50:1
10K/1K	10:1	100K/1K	100:1
20K/1K	20:1		

Value Range (Ω)	TCR		Tolerance		Power Rating Maximum @ 70°C		Stability 2,000H @ 70°C		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Vishay Part No.
	Tracking	Abs.	Ratio	Abs.	Resistor	Pkg.	ΔR Abs.	ΔR Ratio		1	25	100			
10K/5K ~ 20K/1K	±5ppm/°C	±25ppm/°C	±0.05%	±0.1%	100mW‡	400mW	500ppm	150ppm	ORNT-**(R_1 Value/R_2 Value)**CT-ND†	6.16	5.11	4.84	ORNT-**(R_1 Value/R_2 Value)**TR-ND†	2200.00	ORNTAxx-1T1
25K/1K									ORNT-25K/1KCT-ND	6.58	5.46	5.17	ORNT-25K/1KTR-ND	2350.00	ORNTA25-1T1
50K/1K									ORNT-50K/1KCT-ND	6.72	5.57	5.28	ORNT-50K/1KTR-ND	2400.00	ORNTA50-1T1
100K/1K									ORNT-100K/1KCT-ND	7.00	5.80	5.50	ORNT-100K/1KTR-ND	2500.00	ORNTA100-1T1

† For complete part number, substitute the value from Standard Resistor Divider Network Values chart for **(R_1 Value/R_2 Value)**. ‡ Per element typical

CTS CLEARONE™

BGA Terminators and Bias Networks

• Ceramic BGA Packaging • High density form factor • Designed for termination of parallel data busses • Designed for high frequency data transmission • Virtually eliminates parasitic capacitance and inductance • Ultra low channel capacitance • Flexible form factor; 1mm and 1.27mm pitch • *All dimensions in mm*

Now including Top Probe-able Devices†

The use of ball grid array (BGA) devices during the development phase of a project can represent some unique challenges in terms of circuit probing and device removal should device parameters need to be altered. CTS introduced the Top Probe-able devices to provide easy access to the internal circuitry of the BGA device without probing of the solder spheres, and eliminate the space consumed by test points on the circuit board. For parts available in Top Probe Configuration see Digi-Key parts marked with †.

DDR SDRAM Terminators

Features: • 18 Bit SSTL_2 Termination Sets • Compliant to JEDEC Std. 8-9

Electrical Specifications:

- **Resistor Tolerance:** ±1.0%
- **Maximum Resistor Power:** 0.05 Watts at 70°C (Not to Exceed Total Network Power)
- **Package Power Rating:** 1.0 Watt at 70°C
- **Temperature Coefficient of Resistance:** ±200 ppm/°C
- **Operating Temperature Range:** -55°C ~ 125°C

R1 Ohms	R2 Ohms	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part No.
60	25	3x9	1.27	RT1408B6CT-ND	2.29	1.83	885.00	RT1408B6TR7
60	25	3x9	1.27	RT1408B6PCT-ND†	2.52	2.02	973.00	RT1408B6P
60	25	3x9	1.00	RT1408B7PCT-ND†	2.69	2.16	1041.00	RT1408B7P
50	25	3x9	1.27	RT1400B6PCT-ND†	2.52	2.02	—	RT1400B6P
25	22	3x9	1.27	RT1401B6CT-ND	2.29	1.83	885.00	RT1401B6TR7
35	—	3x9	1.27	RT1407B6CT-ND	2.29	1.83	885.00	RT1407B6TR7
35	—	3x9	1.27	RT1407B6PCT-ND†	2.69	2.16	1041.00	RT1407B6P
25	—	3x9	1.27	RT1403B6CT-ND	2.29	1.83	—	RT1403B6TR7
25	—	3x9	1.00	RT1403B7CT-ND	2.45	1.96	—	RT1403B7TR7
22	—	4x9	1.27	RT1405B6CT-ND	2.69	2.16	—	RT1405B6TR7
22	—	4x9	1.27	RT1405B6PCT-ND†	2.96	2.37	—	RT1405B6P
22	—	4x9	1.00	RT1405B7PTR7CT-ND†	4.69	3.75	1813.00	RT1405B7PTR7

*For Tape and Reel part number, change CT-ND to TR-ND. †Top Probe-able Devices.

LVDS Terminators

Features: • Designed for termination of Xilinx® and Altera® FPGAs • 8 or 16 differential channels of termination provided in a single intergrated package

Electrical Specifications:

- **Resistor Tolerance:** ±1.0%
- **Maximum Resistor Power:** 0.068 Watts @ 70°C
- **Maximum Package Power:** 1.0 Watts @ 70°C
- **Temperature Coefficient of Resistance:** ±200ppm/°C
- **Operating Temperature Range:** -55°C ~ 125°C

R1 Ohms	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part No.
100	4x8	1.27	RT1710B6CT-ND	2.03	1.62	783.00	RT1710B6TR7
100	4x8	1.27	RT1710B6PCT-ND†	2.23	1.79	861.00	RT1710B6P
100	4x8	1.00	RT1710B7CT-ND	2.17	1.74	—	RT1710B7TR7
100	4x8	1.00	RT1710B7PCT-ND†	2.39	1.91	—	RT1710B7P

*For Tape and Reel part number, change CT-ND to TR-ND. †Top Probe-able Devices.

CompactPCI Terminators

Features: • 16 or 32 Bit Terminators

Electrical Specifications: • **Resistor Tolerance:** ±5.0% • **Maximum Resistor Power:** 0.05 Watts at 70°C • RT1201B7 = 1.6 Watts at 70°C • **Temperature Coefficient of Resistance:** ±200 ppm/°C • **Operating Temperature Range:** -55°C ~ 125°C

R1 Ohms	No. Bits	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	CTS Part No.
10	32	4x16	1.00	RT1201B7PCT-ND†	3.97	3.18	RT1201B7P

†Top Probe-able Devices.

GTL, GTL+, AGTL+ Terminators

Features: • 8-Bit, 16-Bit, and 32-Bit Termination Sets • Compliant for GTL, GTL+, and AGTL+ Termination

Electrical Specifications: • **Resistor Tolerance:** ±1.0% • **Maximum Resistor Power:** 0.05 Watts at 70°C (Not to Exceed Maximum Package Power) • **Maximum Package Power (70°C):** 8 bit = 0.3 Watts, 16 bit = 0.6 Watts, 32 bit = 1.2 Watts • **Temperature Coefficient of Resistance:** ±200 ppm/°C • **Operating Temperature Range:** -55°C ~ 125°C

R1 Ohms	No. Bits	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part No.
25	8	1.27	RT1450B6CT-ND	1.25	1.00	481.00	RT1450B6TR7
56	8	1.27	RT1453B6CT-ND	1.25	1.00	481.00	RT1453B6TR7
150	8	1.27	RT1410B6CT-ND	1.25	1.00	481.00	RT1410B6TR7
25	16	1.27	RT1451B6CT-ND	1.89	1.51	729.00	RT1451B6TR7
56	16	1.27	RT1454B6CT-ND	1.89	1.51	729.00	RT1454B6TR7
150	16	1.27	RT1411B6CT-ND	1.89	1.51	729.00	RT1411B6TR7
25	32	1.27	RT1452B6CT-ND	3.05	2.44	1179.00	RT1452B6TR7
56	32	1.27	RT1427B6CT-ND	3.05	2.44	—	RT1427B6TR7
150	32	1.27	RT1412B6CT-ND	3.05	2.44	1179.00	RT1412B6TR7
150	32	1.00	RT1412B7CT-ND	3.21	2.57	1241.00	RT1412B7TR7

*For Tape and Reel part number, change CT-ND to TR-ND.

PCI and PCIX Bias Networks

Features: • 8 or 16 Bit Bias Network • Compliant to PCI and PCIX

Electrical Specifications: • **Resistor Tolerance:** ±1.0% • **Maximum Resistor Power:** 0.05 Watts at 70°C • **Maximum Package Power:** 1.0 Watts at 70°C • **Temperature Coefficient of Resistance:** ±100 ppm/°C • **Operating Temperature Range:** -55° ~ 125°C

R Ohms	No. Bits	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part No.
4.7K	16	3x8	1.27	RT1417B6CT-ND	1.81	1.45	699.00	RT1417B6TR7
4.7K	8	3x4	1.27	RT1415B6CT-ND	1.32	1.06	512.00	RT1415B6TR7
4.7K	8	3x4	1.00	RT1415B7CT-ND	1.49	1.19	—	RT1415B7TR7
8.2K	8	3x4	1.27	RT1416B6CT-ND	1.32	1.06	512.00	RT1416B6TR7

*For Tape and Reel part number, change CT-ND to TR-ND.

RT1300 Low Voltage Differential SCSI Active Termination Network

Features: • 9-Line LVD Termination Network • Ultra2, Ultra3 Compliant • Low Channel Capacitance Less Than 0.25pF • Laser Trimmed to 1% Tolerance

Electrical Specifications: • **Resistor Tolerance:** ±1.0% • **Maximum Resistor Power:** 0.05 Watts at 70°C (Not to exceed maximum package power) • **Maximum Package Power (70°C):** 1.0 Watt • **Temperature Coefficient of Resistance:** ±200 ppm/°C • **Operating Temperature Range:** -55°C ~ 125°C

R1 Ohms	R2 Ohms	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part No.
475	121	1.27	RT1300B6CT-ND	2.81	2.25	877.00	RT1300B6TR7
475	121	1.27	RT1300B6PCT-ND†	3.09	2.48	1195.00	RT1300B6P

*For Tape and Reel part number, change CT-ND to TR-ND. †Top Probe-able Devices.

CTS

773 SERIES
Single-In-Line

Specifications: • **Resistance Tolerance:** 2% • **Maximum Operating Voltage:** 100VDC • **Temperature Coefficient:** ±100 PPM/°C≥50Ω, ±200 PPM/°C≤50Ω • **Dielectric Withstand Voltage:** 200VDC • **Operating Temperature Range:** -55°C ~ 125°C • **Resistance Power @ 70°C:** -1 and -5 Schematic = .10 Watts and -3 Schematic = .20 Watts **Features:** • Low cost • High reliability cermet resistors • 2% standard resistor tolerance • Laser marking for permanent identification • High temperature solder • Low profile

Fig. 1 - Bussed

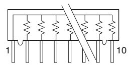

Fig. 2 - Isolated

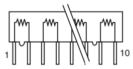

Fig. 3 - Dual Term

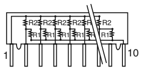

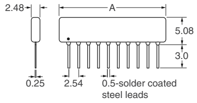

Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Res. Pwr. Rating (mW@70°C)	Digi-Key† Part No.	Pricing 1	10	100	1,000
1	6	5	15.55	100	773061(Code)-ND	.35	2.78	18.50	92.50
2	6	3	15.55	200	773063(Code)-ND	.35	2.78	18.50	92.50
1	8	7	20.65	100	773081(Code)-ND	.46	3.60	24.00	120.00
2	8	4	20.65	200	773083(Code)-ND	.46	3.60	24.00	120.00
3	8	12	20.65	100	773085(Code)/(Code)-ND	.97	7.65	51.00	255.00
1	10	9	25.65	100	773101(Code)-ND	.57	4.50	30.00	150.00
2	10	5	25.65	200	773103(Code)-ND	.57	4.50	30.00	150.00
3	10	16	25.65	100	773105(Code)/(Code)-ND	1.22	9.60	64.00	320.00

† For complete part number, substitute the corresponding resistance ***(Code).***

773061 Series (Bussed)

Value (Code)
150 (151) 270 (271) 33K (333)

773063 Series (Isolated)

Value (Code)
560 (561) 220K (224)

All Resistance values listed in ohms

773081 Series (Bussed)

Value (Code)	Value (Code)
150 (151)	270 (271)
180 (181)	510 (511)

773083 Series (Isolated)

Value (Code)	Value (Code)
27 (270)	3.3K (332)
47 (470)	15K (153)
120 (121)	20K (203)
150 (151)	33K (333)
180 (181)	56K (563)
270 (271)	470K (474)
510 (511)	

773085 Series (Dual Term)

Value (Code)
220/330 (221/331)

773101 Series (Bussed)

Value (Code)	Value (Code)
47 (470) 100 (101)	120 (121)

773103 Series (Isolated)

Value (Code)	Value (Code)
33 (330)	33K (333)
47 (470)	47K (473)
470 (471)	220K (224)
560 (561)	
1.5K (152)	

773105 Series (Dual Term)

Value (Code)
330/470 (331/471)

CTS

Thick Film Chip Resistor Arrays

Features: • Low Cost • Thick Film Technology • High Density Packaging • Leadless Surface Mount construction • Tape and Reel Packaging • Solder coated Nickel Barrier Pads • Isolated and Bussed Circuits • Concave and Convex Terminations

Product Benefits: High Density Packaging: • Up to 30% less space per resistor than 0603 chip resistors • Up to 75% less space per resistor than 0805 chip resistors **Placement Efficiency:** • Networks require fewer placements than discrete components • Larger overall size eases handling compared to discrete components **Low Profile:** • Can be used in PCMCIA cards

Environmental Performance Specifications

Test	Maximum Delta R 740X	741	742~746	Test Description
Thermal Cycle	1.0%	1.0%	1.0%	5 Cycles -55°C ~ 125°C
Short Time Overload	2.0%	2.5%	1.0%	2 1/2 x Rated working voltage. 5 seconds (or maximum voltage)
Moisture Resistance	2.0%	5.0%	2.0%	240 hours .1 rated load, -10°C ~ 65°C, 90%RH
High Temperature Exposure	3.0%	1.0%	1.0%	1000 hours. no load @ 125°C
Load Life	3.0%	5.0%	2.0%	1000 hours @ 70°C, rated load
Resistance to Solder Heat	1.0%	2.5%	1.0%	10 seconds @ 260°C solder
Resistance to Solvents	—	—	—	Isopropyl alcohol, Freon TMC
Solderability	—	—	—	RMA flux, 230°C, 5 seconds dip, 95% coverage

740X SERIES

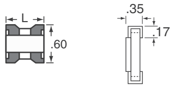

741C SERIES

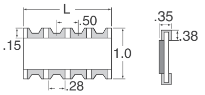

741X SERIES

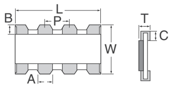

Series	Dimensions - mm W	P	T	A	B	C
741X043	1.0	.65	.35	.33	.20	.38
741X083	1.0	.50	.35	.30	.20	.38
741X163	1.6	.50	.45	.30	.30	.30

742 SERIES

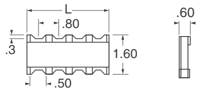

743 SERIES

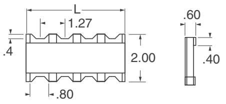

744 SERIES

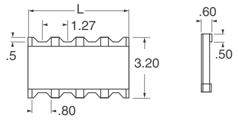

745 SERIES

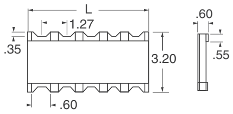

746 SERIES

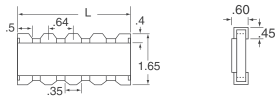

Series 741X and 742

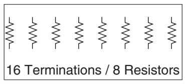
16 Terminations / 8 Resistors

Series 740X, 741C, 741X, 742, 743 and 744

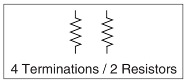
4 Terminations / 2 Resistors

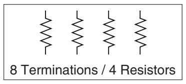
8 Terminations / 4 Resistors

Series 745 and 746

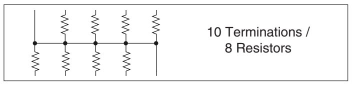
10 Terminations / 8 Resistors

Resistance Values
740X Series Chip Arrays
All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	100 (101)	1.0K (102)	10K (103)
56 (560)	560 (561)	4.7K (472)	

Resistance Values
741X043, 741X083, 741X163 Series Chip Arrays
All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	33 (330)	100 (101)	4.7K (472)	47K (473)
22 (220)	56 (560)	1K (102)	10K (103)	

Resistance Values
741C083 Series Chip Arrays
All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	68 (680)	560 (561)	5.6K (562)	68K (683)
12 (120)	82 (820)	680 (681)	8.2K (822)	100K (104)
15 (150)	100 (101)	1K (102)	10K (103)	180K (184)
18 (180)	120 (121)	1.5K (152)	15K (153)	220K (224)
22 (220)	150 (151)	1.8K (182)	18K (183)	270K (274)
27 (270)	220 (221)	2.2K (222)	22K (223)	330K (334)
33 (330)	270 (271)	2.7K (272)	27K (273)	470K (474)
39 (390)	330 (331)	3.3K (332)	33K (333)	510K (514)
47 (470)	390 (391)	3.9K (392)	47K (473)	1M (105)
51 (510)	470 (471)	4.7K (472)	51K (513)	
56 (560)	510 (511)	5.1K (512)	56K (563)	

Resistance Values
742C043, 742C163, 743C043, 744C043 Series Chip Arrays
All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
22 (220)	220 (221)	2.2K (222)	22K (223)	220K (224)
33 (330)	330 (331)	3.3K (332)	33K (333)	330K (334)
47 (470)	470 (471)	4.7K (472)	47K (473)	470K (474)
100 (101)	1K (102)	10K (103)	100K (104)	1MEG (105)

Resistance Values
742C083, 743C083, 744C083 Series Chip Arrays
All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	150 (151)	2.7K (272)	47K (473)	680K (684)
12 (120)	180 (181)	3.3K (332)	51K (513)	820K (824)
15 (150)	220 (221)	3.9K (392)	56K (563)	1MEG (105)
18 (180)	270 (271)	4.7K (472)	68K (683)	
22 (220)	330 (331)	5.1K (512)	82K (823)	
27 (270)	390 (391)	5.6K (562)	100K (104)	
33 (330)	470 (471)	6.8K (682)	120K (124)	
39 (390)	510 (511)	8.2K (822)	150K (154)	
47 (470)	560 (561)	10K (103)	180K (184)	
51 (510)	680 (681)	12K (123)	220K (224)	
56 (560)	820 (821)	15K (153)	270K (274)	
68 (680)	1K (102)	18K (183)	330K (334)	
82 (820)	1.2K (122)	22K (223)	390K (394)	
100 (101)	1.5K (152)	27K (273)	470K (474)	
110 (111)	1.8K (182)	33K (333)	510K (514)	
120 (121)	2.2K (222)	39K (393)	560K (564)	

Resistance Values
745 Series Chip Arrays
All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)
100 (101)	680 (681)	4.7K (472)	68K (683)
150 (151)	1K (102)	6.8K (682)	100K (104)
220 (221)	1.5K (152)	10K (103)	220K (224)
330 (331)	2.2K (222)	15K (153)	330K (334)
470 (471)	3.3K (332)	33K (333)	470K (474)

Resistance Values
746 Series Chip Arrays
All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)
100 (101)	1K (102)	3.3K (332)	22K (223)
220 (221)	1.5K (152)	4.7K (472)	47K (473)
330 (331)	2.2K (222)	10K (103)	
470 (471)	2.7K (272)	15K (153)	

Series	No. of Terminals	No. of Res.	Dimension "L" (mm)	Resistor † Power Rating (mW@70°C)	Digi-Key Part No.★	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.★	Tape and Reel Pricing 4,000	5,000	10,000
740	4	2	0.85	3	740X043(Code)JPCT-ND◆	.84	6.60	56.40	740X043(Code)JPTR-ND◆	—	—	42.00/M
741	4	2	1.0	63	741X043(Code)JCT-ND▲	.42	3.30	28.20	741X043(Code)JTR-ND§	—	—	21.00/M
	8	4	2.0		741X083(Code)JCT-ND▲	.46	3.58	30.55	741X083(Code)JTR-ND§	—	—	23.00/M
	8	4	2.0		741C083(Code)JCT-ND▲	.46	3.58	30.55	741C083(Code)JTR-ND§	—	—	23.00/M
	16	8	3.80		741X163(Code)JCT-ND▲	1.58	12.38	105.75	741X163(Code)JTR-ND§	—	81.00/M	77.00/M
742	4	2	1.60	63	742C043(Code)JCT-ND▲	.56	4.40	37.60	742C043(Code)JTR-ND§	—	29.00/M	27.00/M
	8	4	3.20		742C083(Code)JCT-ND▲	.42	3.30	28.20	742C083(Code)JTR-ND§	—	22.00/M	20.00/M
	16	8	6.40		742C163(Code)JCT-ND▲	1.75	13.75	117.50	742C163(Code)JTR-ND§	100.00/M	—	—
743	4	2	2.54	100	743C043(Code)JCT-ND▲	1.33	10.26	89.30	743C043(Code)JTR-ND§	76.00/M	—	—
	8	4	5.08		743C083(Code)JCT-ND▲	1.61	12.42	108.10	743C083(Code)JTR-ND§	92.00/M	—	—
744	4	2	2.54	125	744C043(Code)JCT-ND▲	1.33	10.26	89.30	744C043(Code)JTR-ND§	76.00/M	—	—
	8	4	5.08		744C083(Code)JCT-ND▲	1.61	12.42	108.10	744C083(Code)JTR-ND§	92.00/M	—	—
745	10	8	6.40	63	745C101(Code)JCT-ND▲	2.10	16.50	141.00	745C101(Code)JTR-ND§	120.00/M	—	—
746	10	8	3.30	31	746X101(Code)JCT-ND▲	1.12	8.80	75.20	746X101(Code)JTR-ND§	—	58.00/M	54.00/M

▲ For ***RoHS Compliant*** Part Number, change CT-ND to PCT-ND. § For ***RoHS Compliant*** Part Number, change TR-ND to PTR-ND. ***Not all values listed are available as RoHS Compliant*** ★ For complete part number, substitute the corresponding resistance code listed above for (Code). † ***Note:*** Total Rated Package Power equals total number of resistors times rated Power per resistor ◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

753 SERIES —
In-Line Surface Mount Leadless Resistor Networks

Fig. 1 – SRT Isolated

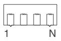

Fig. 2 – SRT Bussed

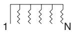

Fig. 3 – DRT Bussed

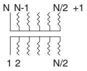

Fig. 4 – DRT Isolated

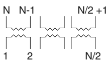

Fig. 5 – GTL Termination

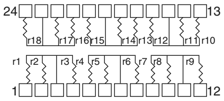
24
13
r18 r17 r16 r15 r14 r13 r12 r11 r10
r1 r2 r3 r4 r5 r6 r7 r8 r9
1
12

Series 753 in-line surface mount leadless resistor networks provide the highest density per area of any conventional surface mount solution. In a bussed configuration, the networks provide two times the resistors per area compared to 0603 sized chips, and more than six times that offered by 0805 sized chips.

Specifications: • Resistance Tolerance: ±2% or 0.5Ω, whichever is greater • Maximum Operating Voltage: 25V, not to exceed rated power • Temperature Coefficient: ±200ppm/°C • Operating Temperature Range: -55°C ~ 125°C

Features: • High density packaging • Solid ceramic construction • Available terminations per package: Single Row Terminations: 8, 9, 10; Dual Row Terminations: 16, 18, 20, 24 • Solder coated pads • Designed for visual inspection of solder joints and board cleaning

RESISTANCE VALUES

(All values listed in ohms)

RoHS Compliant Parts Available

SRT – Bussed 8 Terminal Value (Code)	SRT – Isolated 8 Terminal Value (Code)	SRT – Bussed 9 Terminal Value (Code)	SRT – Bussed 10 Terminal Value (Code)	DRT – Bussed 16 Terminal Value (Code)	DRT – Isolated 16 Terminal Value (Code)	DRT – Bussed 18 Terminal Value (Code)	DRT – Bussed 20 Terminal Value (Code)	DRT – Bussed 24 Terminal Value (Code)	DRT – Isolated 24 Terminal Value (Code)	DRT – GTL 24 Terminal Value (Code)
1K (102) 10K (103)	33 (330) 100 (101) 100K (104)	100 (101) 1K (102) 2.2K (222) 4.7K (472) 10K (103) 22K (223) 100K (104)	1K (102) 3.3K (332) 4.7K (472) 47K (473) 10K (103)	110 (111) 10K (103)	22 (220) 39 (390) 47 (470) 100 (101) 10K (103)	1K (102) 5.6K (562) 10K (103)	10K (103)	10K (103)	22 (220) 100 (101)	39 (390) 51 (510) 68 (680)

Fig.	No. of Term.	No. of Resistors	Dimensions mm A	Dimensions mm B	Resistor Power Rating (mW@70°C)	Digi-Key Part No.†	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.†	Tape and Reel Qty.	Tape and Reel Pricing
1	8	4	6.22	4.44	80	753083(Code)GCT-ND▲	2.84	26.07	237.00	753083(Code)GTR-ND◆	1,000	1422.00
2	9	8	6.86	4.90	40	753091(Code)GCT-ND▲	2.95	27.03	245.75	753091(Code)GTR-ND◆	1,000	1475.00
2	10	9	7.49	5.72	40	753101(Code)GCT-ND▲	2.95	27.03	245.75	753101(Code)GTR-ND◆	1,000	1475.00
3	16	14	6.22	4.44	40	753161(Code)GCT-ND▲	2.95	27.03	245.75	753161(Code)GTR-ND◆	1,000	1475.00
4	16	8	6.22	4.44	80	753163(Code)GCT-ND▲	2.84	26.07	237.00	753163(Code)GTR-ND◆	1,000	1422.00
3	18	16	6.86	4.90	40	753181(Code)GCT-ND▲	2.95	27.03	245.75	753181(Code)GTR-ND◆	1,000	1475.00
3	20	18	7.49	5.72	40	753201(Code)GCT-ND▲	2.95	27.03	245.75	753201(Code)GTR-ND◆	1,000	1475.00
3	24	22	8.76	6.98	40	753241(Code)GCT-ND▲	2.95	27.03	245.75	753241(Code)GTR-ND◆	1,000	1475.00
4	24	12	8.76	6.98	80	753243(Code)GCT-ND	2.92	26.73	243.00	753243(Code)GTR-ND	1,000	1458.00
5	24	18	8.76	6.98	60	75324G(Code)GCT-ND	2.92	26.73	243.00	75324G(Code)GTR-ND	1,000	1458.00

Fig.	No. of Term.	No. of Res.	Dimensions mm A	Dimensions mm B	Resistor Power Rating (mW@70°C)	Res. Value (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
2	8	7	6.22	4.44	40	1K	753081102GBK-ND	3.15	25.20	176.40	753081102GTR-ND	1,000	1310.00
3	18	16	6.86	4.90	40	22K	753181223GBK-ND	3.78	30.24	211.68	753181223GTR-ND	1,000	1310.00
3	18	16	6.86	4.90	40	4.7K	753181472GBK-ND	3.78	30.24	211.68	753181472GTR-ND	1,000	1310.00

† For complete part number, substitute the corresponding resistance (Code) from resistance value chart. ▲ For ***RoHS Compliant*** Part Number, change CT-ND to PCT-ND ◆ For ***RoHS Compliant*** Part Number, change TR-ND to PTR-ND ***Not all values listed are available as RoHS Compliant***

Series 753

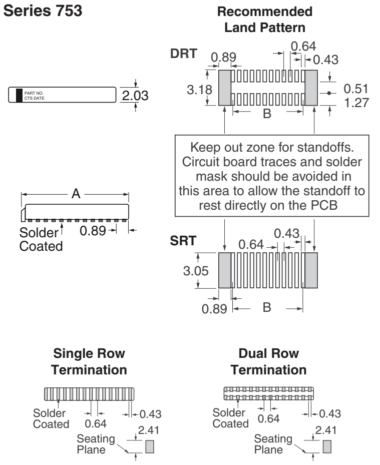

Keep out zone for standoffs. Circuit board traces and solder mask should be avoided in this area to allow the standoff to rest directly on the PCB

G

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752 SERIES —
Surface Mount Single Row and Dual Row Termination

RoHS Compliant Parts Available

Fig. 1 – SRT Bussed

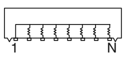

Fig. 2 – DRT Bussed

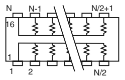

Fig. 3 – SRT Isolated

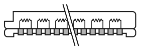

Fig. 4 – SRT Dual Term.

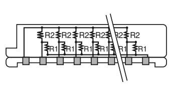

Fig. 5 – DRT Isolated

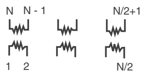

DRT

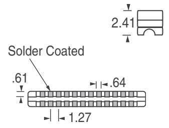

SRT

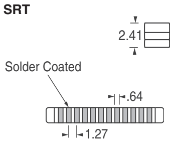

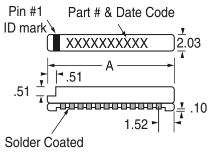

Max. Resistor Power (Not to exceed total network power)

SPECIFICATIONS: Resistance Range: Standard 22Ω to 1MegΩ **Resistance Tolerance:** The Bussed and Isolated circuits are 2%, the Dual Terminator circuit is 5% **Maximum Operating Voltage:** 25V not to exceed rated power **Temperature Coefficient:** Standard: ±200 PPM/°C **Dielectric Strength:** 100 VAC **Operating Temperature Range:** -55°C ~ 125°C **In-line Surface Mount Resistor Networks:** • High density packaging • Low profile • Input/outputs available: Dual Row Terminations 16, 18, 20, 24; Single Row Terminations 8, 9, 10, 12 • Solder coated pads • Designed for visual inspection of solder joints and for board cleaning • 24mm tape and reel packaging • Meets UL-94VO requirements

RESISTANCE VALUES

(All values listed in ohms)

SRT – Bussed 9 Term.	SRT – Bussed 10 Term.	DRT – Bussed 16, 18, 20, 24 Term.	SRT – Isolated 8, 10, 12 Term.	DRT – Isolated 24 Term.
100 4.7K 560 10K 680 22K 1K 100K 2.2K	1K 3.3K 10K	1K 10K 47K 100K	22 2.2K 33 3.3K 47 4.7K 100 10K 1K	22

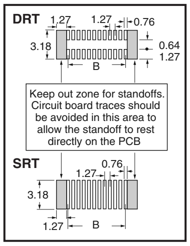

Keep out zone for standoffs. Circuit board traces should be avoided in this area to allow the standoff to rest directly on the PCB

	Bussed & Dual Terminator Schematic	Isolated Schematic
@25°C	.12w	.24w
@70°C	.08w	.16w

Fig.	No. of Term.	No. of Res.	Dim. – mm A	Dim. – mm B	Resistor Power Rating (mW@70°C)	Digi-Key Part No.†	Bulk Pricing 1	Bulk Pricing 10	Bulk Pricing 100	Digi-Key Part No.†	Tape and Reel Qty.	Tape and Reel Pricing
1	9	8	13.08	10.16	80	752-091-(Value)BK-ND▼	2.94	23.52	164.64	752-091-(Value)TR-ND◆	1,000	1019.00
2	16	14	11.81	8.89	80	752-161-(Value)BK-ND▼	2.94	23.52	164.64	752-161-(Value)TR-ND◆	1,000	1019.00
2	18	16	13.08	10.16	80	752-181-(Value)BK-ND▼	2.94	23.52	164.64	752-181-(Value)TR-ND◆	1,000	1019.00
2	20	18	14.35	11.43	80	752-201-(Value)BK-ND▼	2.94	23.52	164.64	752-201-(Value)TR-ND◆	1,000	1019.00
2	24	22	16.89	13.97	80	752-241-(Value)BK-ND▼	2.94	23.52	164.64	752-241-(Value)TR-ND◆	1,000	1019.00
3	8	4	11.81	8.89	160	752-083-(Value)BK-ND▼	2.76	22.11	154.77	752-083-(Value)TR-ND◆	1,000	958.00
3	10	5	14.35	11.43	160	752-103-(Value)BK-ND▼	2.76	22.11	154.77	752-103-(Value)TR-ND◆	1,000	958.00
3	12	6	16.89	13.97	160	752-123-(Value)BK-ND▼	2.84	22.68	158.76	752-123-(Value)TR-ND◆	1,000	958.00
4	10	16	14.35	11.43	80	—	—	—	—	752-105-220/330TR-ND◆	1,000	936.00
1	10	9	14.35	11.43	80	752-101-(Value)BK-ND▼	2.94	23.52	164.64	752-101-(Value)TR-ND◆	1,000	1019.00
5	24	12	16.89	13.97	16	752-243-(Value)BK-ND	2.84	22.68	158.76	752-243-(Value)TR-ND	1,000	983.00

† For complete part number, substitute the corresponding value from chart above (Value). ▼ For ***RoHS Compliant*** Part Number, change BK-ND to PBK-ND ◆ For ***RoHS Compliant*** Part Number, change TR-ND to PTR-ND ***Not all values listed are available as RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Resistor Networks

OVER 1,500 VALUES AVAILABLE

RoHS Compliant parts Available

750 SERIES

Single-In-Line

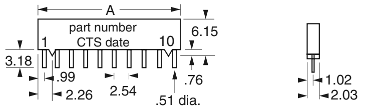

Solid ceramic networks are more efficient because they operate at lower temperatures. This translates into long term reliability in a resistor network.

Specifications:
- **Resistance Tolerance:** ±2% • **Temperature Coefficient:** ±100PPM/°C typical

Features:
- Low-profile construction • Excellent power dissipation • High reliability • Alumina substrate

770 SERIES

Single-In-Line Conformal

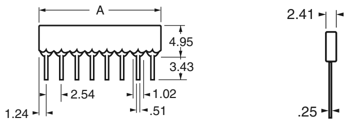

Standard Products 770 series is available in 6, 8, and 10 pin sizes, and in many available resistance values.

Specifications:
- **Resistance Tolerance:** ±2% • **Temperature Coefficient:** ±100PPM/°C typical

Features:
- High reliability resistors • Low-profile construction • .100" lead spacing • Alumina substrate

760 and 761 SERIES

Dual-In-Line

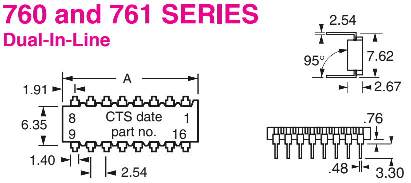

Requires 30% less board space than molded networks of the same power rating.

Specifications:
- **Resistance Tolerance:** Standard: ±2% • **Maximum Operating Voltage:** 50V not to exceed rated power • **Temperature Coefficient:** 100Ω through 1MΩ ±100PPM/°C typical, Below 100Ω ±200PPM/°C typical • **Operating Temperature Range:** –55°C ~ 125°C • **Dielectric Strength**: 100V

766 and 767 SERIES

Dual-In-Line Surface Mount

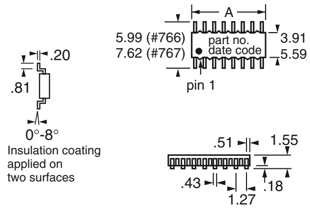

Thin cover coating generates higher power ratings. Thin proprietary cover protection keeps resistors near the surface, allowing the alumina substrate to act as a heat sink. That means higher power ratings than molded networks.

Specifications:
- **Resistance Tolerance:** ±2%. • **Temperature Coefficient:** ±100PPM/°C typical

768 SERIES

Dual-In-Line Surface Mount

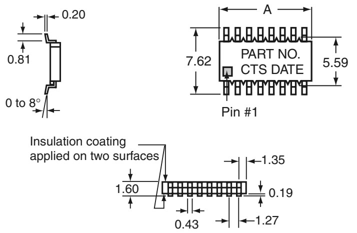

Medium body, small outline products. Low profile — board to network clearance of 0.075"/0.005".

Specifications:
- **Resistance Tolerance:** Standard: ±2% or 0.5Ω (whichever is greater) • **Maximum Operating Voltage:** 50V not to exceed rated power • **Temperature Coefficient:** Standard: 100Ω to 1MΩ ±100PPM/°C typical, 10Ω to 99Ω ±200PPM/°C typical • **Operating Temperature Range:** -55°C ~ 125°C • **Dielectric Strength:** 100VAC

Fig. 1 - Bussed

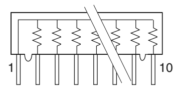

Fig. 2 - Isolated

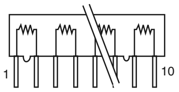

Fig. 3 - Dual Term

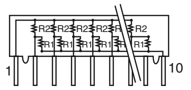

Fig. 4 - Bussed

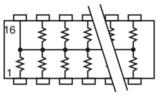

Fig. 5 - Isolated

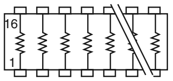

Fig. 6 - Dual Term

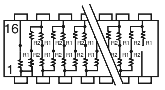

AVAILABLE VALUES
(listed in Ω)

Isolated and Bussed Circuits

22	56	180	470	1.2K	3.3K	8.2K	22K	68K	220K	680K
27	68	200	510	1.5K	3.9K	10K	27K	82K	270K	820K
33	82	220	560	1.8K	4.7K	12K	33K	100K	330K	1Meg
39	100	270	680	2K	5.1K	15K	39K	120K	390K	
47	120	330	820	2.2K	5.6K	18K	47K	150K	470K	
51	150	390	1K	2.7K	6.8K	20K	56K	180K	560K	

AVAILABLE VALUES
(listed in Ω)

750 and 770 SERIES Dual Terminator Circuits
81/130
121/195
162/260
180/390
220/330
330/390

AVAILABLE VALUES
(listed in Ω)

760 and 761 SERIES Dual Terminator Circuits
180/390
220/270
220/330
330/390
680/1.5K
1.5K/3.3K

AVAILABLE VALUES
(listed in Ω)

766, 767 and 768 SERIES Dual Terminator Circuits
180/390
220/330
330/390
330/470

Series	Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Resistor Power Rating (mW@70°C)	Digi-Key Part No.†	Pricing 1	10	100	1,000
750	1	6	5	14.68	250	750-61-R(Value)-ND	.91	7.95	62.43	454.00
		8	7	19.76	250	750-81-R(Value)-ND	1.05	9.17	72.05	524.00
		10	9	24.84	250	750-101-R(Value)-ND	1.25	10.92	85.80	624.00
	2	6	3	14.68	400	750-63-R(Value)-ND	.91	7.95	62.43	454.00
		8	4	19.76	400	750-83-R(Value)-ND	1.05	9.17	72.05	524.00
		10	5	24.84	400	750-103-R(Value)-ND	1.25	10.92	85.80	624.00
	3	8	12	19.76	250	750-85-R(Value)-ND	1.41	12.36	97.08	706.00
		10	16	24.84	250	750-105-R(Value)-ND	1.70	14.91	117.15	852.00
770	1	6	5	15.19	100	770-61-R(Value)-ND	.21	1.76	13.20	88.00
		6	5	15.19	100	770-61-R(Value)P-ND◆	.28	2.42	18.98	138.00
		8	7	20.27	100	770-81-R(Value)-ND	.28	2.36	17.70	118.00
		8	7	20.27	100	770-81-R(Value)P-ND◆	.34	2.98	23.38	170.00
		10	9	25.35	100	770-101-R(Value)-ND	.30	2.63	20.63	150.00
		10	9	25.35	100	770-101-R(Value)P-ND◆	.42	3.68	28.88	210.00
	2	6	3	15.19	200	770-63-R(Value)-ND	.28	2.36	17.70	118.00
		6	3	15.19	200	770-63-R(Value)P-ND◆	.28	2.42	18.98	138.00
		8	4	20.27	200	770-83-R(Value)-ND	.28	2.36	17.70	118.00
		8	4	20.27	200	770-83-R(Value)P-ND◆	.34	2.98	23.38	170.00
		10	5	25.35	200	770-103-R(Value)-ND	.30	2.63	20.63	150.00
		10	5	25.35	200	770-103-R(Value)P-ND◆	.42	3.68	28.88	210.00
	3	8	12	20.27	100	770-85-R(Value)-ND	.57	4.84	36.30	242.00
		8	12	20.27	100	770-85-R(Value)P-ND◆	.73	6.41	50.33	366.00
		10	16	25.35	100	770-105-R(Value)-ND	.54	4.76	37.40	272.00
		10	16	25.35	100	770-105-R(Value)P-ND◆	.96	8.40	66.00	480.00
760/ 761	4	14	13	19.05	150	760-1-R(Value)-ND	.98	8.13	68.25	422.50
		16	15	21.59	150	761-1-R(Value)-ND	1.00	9.16	83.25	499.50
	5	14	7	19.05	300	760-3-R(Value)-ND	.98	8.13	68.25	422.50
		16	8	21.59	300	761-3-R(Value)-ND	1.00	9.16	83.25	499.50
	6	14	24	19.05	150	760-5-R(Value)-ND	1.35	11.28	94.71	586.30
		16	28	21.59	150	761-5-R(Value)-ND	1.38	12.62	114.75	688.50

Series	Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Resistor Power Rating (mW@70°C)	Digi-Key Part No.†	Pricing 1	10	100	1,000
766	4	14	13	8.64	80	766-141-R(Value)-ND	1.46	11.67	81.69	505.70
		14	13	8.64	80	766-141-R(Value)P-ND◆	1.42	11.37	79.59	492.70
		16	15	9.91	80	766-161-R(Value)-ND	1.22	9.72	68.04	421.20
		16	15	9.91	80	766-161-R(Value)P-ND◆	1.42	11.37	79.59	492.70
	5	14	7	8.64	160	766-143-R(Value)-ND	1.22	9.72	68.04	421.20
		14	7	8.64	160	766-143-R(Value)P-ND◆	1.42	11.37	79.59	492.70
		16	8	9.91	160	766-163-R(Value)-ND	1.22	9.72	68.04	421.20
		16	8	9.91	160	766-163-R(Value)P-ND◆	1.42	11.37	79.59	492.70
	6	14	24	8.64	80	766-145-R(Value)-ND	1.71	13.68	95.76	592.80
		14	24	8.64	80	766-145-R(Value)P-ND◆	1.67	13.35	93.45	578.50
		16	28	9.91	80	766-165-R(Value)-ND	1.43	11.40	79.80	494.00
		16	28	9.91	80	766-165-R(Value)P-ND◆	1.67	13.35	93.45	578.50
767	4	14	13	9.91	100	767-141-R(Value)-ND	.79	6.30	44.10	273.00
		14	13	9.91	100	767-141-R(Value)P-ND◆	.66	5.25	36.75	227.50
		16	15	11.18	100	767-161-R(Value)-ND	.79	6.30	44.10	273.00
		16	15	11.18	100	767-161-R(Value)P-ND◆	.66	5.25	36.75	227.50
	5	14	7	9.91	200	767-143-R(Value)-ND	.79	6.30	44.10	273.00
		14	7	9.91	200	767-143-R(Value)P-ND◆	.66	5.25	36.75	227.50
		16	8	11.18	200	767-163-R(Value)-ND	.66	5.25	36.75	227.50
		16	8	11.18	200	767-163-R(Value)P-ND◆	.66	5.25	36.75	227.50
	6	14	24	9.91	100	767-145-R(Value)-ND	.85	6.78	47.46	293.80
		14	24	9.91	100	767-145-R(Value)P-ND◆	.71	5.64	39.48	244.40
		16	28	11.18	100	767-165-R(Value)-ND	.71	5.64	39.48	244.40
		16	28	11.18	100	767-165-R(Value)P-ND◆	.71	5.64	39.48	244.40
768	4	14	13	9.91	100	768-141-R(Value)-ND	.79	6.30	44.10	273.00
		16	15	11.18	100	768-161-R(Value)-ND	.79	6.30	44.10	273.00
	5	14	7	9.91	200	768-143-R(Value)-ND	.79	6.30	44.10	273.00
		16	8	11.18	200	768-163-R(Value)-ND	.79	6.30	44.10	273.00
	6	14	24	9.91	100	768-145-R(Value)-ND	.85	6.78	47.46	293.80
		16	28	11.18	100	768-165-R(Value)-ND	.85	6.78	47.46	293.80

† For complete part number, substitute the corresponding value from the above chart (Value); ***Note: Not all values listed are available in RoHS Compliant product.*** ◆ ***RoHS Compliant***

Resistor Networks

4100R Series
4116R
Thick Film Molded DIPs

• Compatible with automatic insertion equipment • Copper leads for excellent heat dissipation • High temperature lead attachment to withstand reflow solder temperatures up to 260°C • Trifurcated Krimp-Joint™ lead attachment for product reliability and strength

Electrical Characteristics:
• **Maximum Operating Voltage:** 100V • **Temperature Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C, below 50Ω: ±250ppm/°C • **Operating Temperature:** -55°C ~ 125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000MΩ minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 90/10 electroplate • **Body Material**: Novolac Epoxy

Resistance Tolerance:
• **Isolated/Bussed:** Below 50Ω ±1Ω; Above 50Ω ±2%
• **Dual Terminated:** Below 100Ω ±2Ω; Above 100Ω ±2%

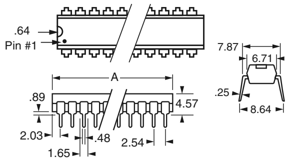

4800P Series
4816P
Thick Film Surface Mount Medium Body (5.59mm)

• Standard E.I.A. (SOGN-0002) package compatible with automatic placement equipment. • High temperature lead attachment to withstand reflow temperatures up to 260°C.

Electrical Characteristics:
• **Maximum Operating Voltage:** 50V • **Temperature Coefficient of Resistance:** 50Ω and above: ±100ppm/°C; below 50Ω: ±250ppm/°C • **Operating Temperature:** -55°C ~ 125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000MΩ minimum. • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 60/40 solder dip • **Body Material**: Novolac Epoxy

Resistance Tolerance:
• **Isolated/Bussed:** Below 50Ω ±1Ω; Above 50Ω ±2%
• **Dual Terminated:** Below 100Ω ±2Ω; Above 100Ω ±2%

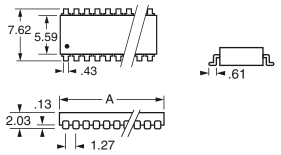

All values listed in Ω

Resistance Values (001 and 002)
Isolated and Bussed Circuits

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
22 (220)	220 (221)	2K (202)	18K (183)	150K (154)
27 (270)	270 (271)	2.2K (222)	20K (203)	180K (184)
33 (330)	330 (331)	2.7K (272)	22K (223)	220K (224)
39 (390)	390 (391)	3.3K (332)	27K (273)	270K (274)
47 (470)	470 (471)	3.9K (392)	33K (333)	330K (334)
56 (560)	560 (561)	4.7K (472)	39K (393)	390K (394)
68 (680)	680 (681)	5.6K (562)	47K (473)	470K (474)
82 (820)	820 (821)	6.8K (682)	56K (563)	560K (564)
100 (101)	1K (102)	8.2K (822)	68K (683)	680K (684)
120 (121)	1.2K (122)	10K (103)	82K (823)	820K (824)
150 (151)	1.5K (152)	12K (123)	100K (104)	1M (105)
180 (181)	1.8K (182)	15K (153)	120K (124)	

Resistance Values (003)
Dual Terminator Circuits

Value (Code)
180/390 (181/391)
220/270 (221/271)
220/330 (221/331)
330/390 (331/391)
330/470 (331/471)
3K/6.2K (302/622)

4300R Series
4306R, 4308R and 4310R
Thick Film Molded SIPs, Low Profile

• Low profile provides compatibility with DIPs • Compatible with automatic insertion equipment • High temperature lead attachment to withstand reflow temperatures up to 260°C • Copper leads for excellent heat dissipation

Electrical Characteristics:
• **Maximum Operating Voltage:** 100V • **Temperature Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C; below 50Ω: ±250ppm/°C • **Operating Temperature:** -55°C ~ 125°C • **Power Rating:** Derate to zero power from 70°C ~ 125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000MΩ minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 90/10 plated • **Body Material**: Novolac Epoxy

Resistance Tolerance:
• **Isolated/Bussed:** Below 50Ω ±1Ω; Above 50Ω ±2%
• **Dual Terminated:** Below 100Ω ±2Ω; Above 100Ω±2%

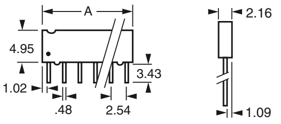

4600X Series
4606X, 4608X and 4610X
Thick Film Conformal SIPs, Low Profile

• Low Profile is compatible with DIPs • High temperature lead attachment to withstand reflow temperatures up to 260°C

Electrical Characteristics:
• **Maximum Operating Voltage:** 100V • **Temperature Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C, below 50Ω: ±250/ppm°C • **Operating Temperature:** -55°C ~ 125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000MΩ minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 60/40 solder dip • **Body Material**: Epoxy resin/anhydride disphenol A

Resistance Tolerance:
• **Isolated/Bussed:** Below 50Ω ±1Ω; Above 50Ω ±2%
• **Dual Terminated:** Below 100Ω ±2Ω; Above 100Ω ±2%

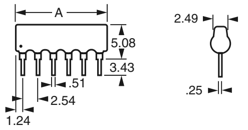

All values listed in Ω

Resistance Values (001 and 002)
Isolated and Bussed Circuits

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
22 (220)	220 (221)	2K (202)	18K (183)	150K (154)
27 (270)	270 (271)	2.2K (222)	20K (203)	180K (184)
33 (330)	330 (331)	2.7K (272)	22K (223)	220K (224)
39 (390)	390 (391)	3.3K (332)	27K (273)	270K (274)
47 (470)	470 (471)	3.9K (392)	33K (333)	330K (334)
56 (560)	560 (561)	4.7K (472)	39K (393)	390K (394)
68 (680)	680 (681)	5.6K (562)	47K (473)	470K (474)
82 (820)	820 (821)	6.8K (682)	56K (563)	560K (564)
100 (101)	1K (102)	8.2K (822)	68K (683)	680K (684)
120 (121)	1.2K (122)	10K (103)	82K (823)	820K (824)
150 (151)	1.5K (152)	12K (123)	100K (104)	1M (105)
180 (181)	1.8K (182)	15K (153)	120K (124)	

Resistance Values (004)
Dual Terminator Circuits

Value (Code)
160/240 (161/241)
180/390 (181/391)
220/270 (221/271)
220/330 (221/331)
330/390 (331/391)
330/470 (331/471)
3K/6.2K (302/622)

Fig. 1 – Isolated

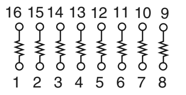

Fig. 2 – Bussed

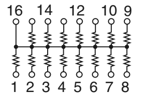

Fig. 3 – Dual Term

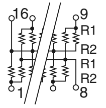

Fig. 4 – Dual Term

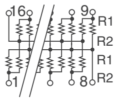

Fig. 5 – Isolated

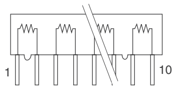

Fig. 6 – Bussed

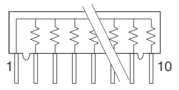

Fig. 7 – Dual Term

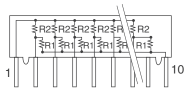

Series	Fig.	No. of Pins	No. of Res.	Dimension A (mm)	Element Power Rating (W @ 70°C)	Digi-Key Part No.‡	Pricing 1	10	50	100	500	1,000
4100	1	16	8	21.97	.25	4116R-1-(Code)-ND◆	.60	5.27	22.10	37.78	157.41	264.00
	2	16	15	21.97	.125	4116R-2-(Code)-ND◆	.60	5.27	22.10	37.78	157.41	264.00
	3	16	28	21.97	.125	4116R-3-(Code)/(Code)-ND★	1.27	11.28	47.32	80.89	337.04	566.00
4300	6	6	5	14.83	.20	4306R-1-(Code)-ND◆	.47	4.19	17.55	30.00	125.00	210.00
	5	6	3	14.83	.30	4306R-2-(Code)-ND◆	.47	4.19	17.55	30.00	125.00	210.00
	7	6	8	14.83	.20	4306R-4-(Code)/(Code)-ND★	.67	5.89	24.70	42.22	175.93	296.00
	6	8	7	19.91	.20	4308R-1-(Code)-ND◆	.54	4.81	20.15	34.44	143.52	241.00
	5	8	4	19.91	.30	4308R-2-(Code)-ND◆	.54	4.81	20.15	34.44	143.52	241.00
	7	8	12	19.91	.20	4308R-4-(Code)/(Code)-ND★	.74	6.51	27.30	46.67	194.44	327.00
	6	10	9	24.99	.20	4310R-1-(Code)-ND◆	.65	5.74	24.05	41.11	171.30	288.00
	5	10	5	24.99	.30	4310R-2-(Code)-ND◆	.65	5.74	24.05	41.11	171.30	288.00
	7	10	16	24.99	.20	4310R-4-(Code)/(Code)-ND★	.88	7.75	32.50	55.56	231.48	389.00
4600	6	6	5	15.19	.20	4606X-1-(Code)-ND◆	.25	2.23	9.36	16.00	66.67	112.00
	5	6	3	15.19	.30	4606X-2-(Code)-ND◆	.25	2.23	9.36	16.00	66.67	112.00
	7	6	8	15.19	.20	4606X-4-(Code)/(Code)-ND★	.53	4.65	19.50	33.33	138.89	233.00
	6	8	7	20.27	.20	4608X-1-(Code)-ND◆	.32	2.79	11.70	20.00	83.33	140.00
	5	8	4	20.27	.30	4608X-2-(Code)-ND◆	.32	2.79	11.70	20.00	83.33	140.00
	7	8	12	20.27	.20	4608X-4-(Code)/(Code)-ND★	.63	5.58	23.40	40.00	166.67	280.00
	6	10	9	25.35	.20	4610X-1-(Code)-ND◆	.39	3.41	14.30	24.44	101.85	171.00
	5	10	5	25.35	.30	4610X-2-(Code)-ND◆	.39	3.41	14.30	24.44	101.85	171.00
	7	10	16	25.35	.20	4610X-4-(Code)/(Code)-ND★	.70	6.20	26.00	44.44	185.19	311.00
4800	1	16	8	12.45	.160	4816P-1-(Code)-ND◆	1.12	9.92	41.60	71.00	300.00	500.00
	2	16	15	12.45	.080	4816P-2-(Code)-ND◆	1.12	9.92	41.60	71.00	300.00	500.00
	4	16	28	12.45	.080	4816P-3-(Code)/(Code)-ND★	1.75	15.50	65.00	110.94	468.75	781.00

‡ For complete part number, substitute the corresponding resistance code (listed above) for Value ◆ For ***RoHS Compliant*** Part Number change -ND to LF-ND ★ For ***RoHS Compliant*** Part Number change -ND to L-ND
Not all values listed are available as RoHS Compliant

Cermet Potentiometers

Model ST-32

Surface Mount, Single-Turn

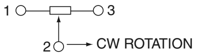

FEATURES: • Top and side adjustment styles • Has a rotor with a cross slot for ease of adjustment • Leaded terminals provide strong adhesive strength against P.C.B. bending • J-hook, Gull wing and leaded terminal configurations • Compatible with P.C.B. pad outline dimensions for ST-3 series • Sealed/Washable

ELECTRICAL: • Resistance Tolerance: ±20% • Power Rating: 0.125W at 70°C, 0W at 125°C • Input Voltage Maximum: 200VDC or power rating, whichever is less • Wiper Current Maximum: 100mA or power rating, whichever is less • Effective Electrical Angle: 210° (1 turn) • End Resistance: 1% or 2Ω, whichever is greater • Contact Resistance Variation: 1% or 3Ω, whichever is greater • Operating Temperature Range: -55°C ~ 125°C • Insulation Resistance: 1000MΩ minimum at 500VDC Dielectric Strength: 500VAC, 60s

MECHANICAL: • Mechanical Angle: 250° (1 turn) • Operating Torque: 51 gram force-cm maximum • Minimum Stop Strength: 204 gram force-cm • Rotational Life: 100 cycles (▲ R/R ≤ 2Ω +3%)

Dim. in mm

ST-32TA - Top Adjustment, J-Hook

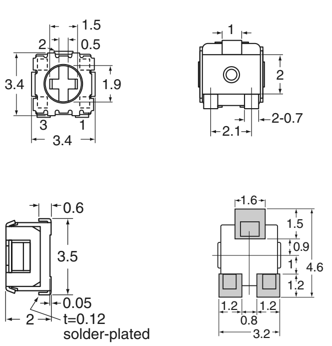

ST-32TB - Top Adjustment, Gull Wing

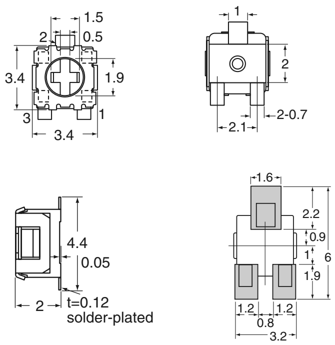

ST-32TG - Side Adjustment, J-Hook

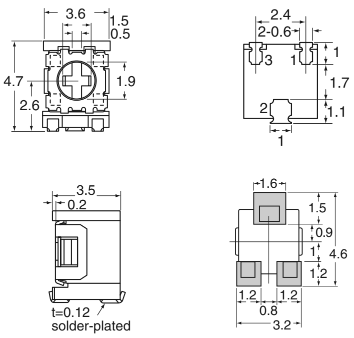

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing* 500
10	ST32TA100CT-ND	ST32TB100CT-ND	2.21	1.60	ST32TA100TR-ND	ST32TB100TR-ND	551.25
20	ST32TA200CT-ND	ST32TB200CT-ND	2.21	1.60	ST32TA200TR-ND	ST32TB200TR-ND	551.25
50	—	ST32TB500CT-ND	2.07	1.50	—	ST32TB500TR-ND	517.50
100	ST32TA101CT-ND	—	2.07	1.50	ST32TA101TR-ND	—	517.50
200	ST32TA201CT-ND	ST32TB201CT-ND	2.07	1.50	ST32TA201TR-ND	ST32TB201TR-ND	517.50
300	—	ST32TB301CT-ND	2.48	1.79	—	ST32TB301TR-ND	618.75
500	—	ST32TB501CT-ND	2.07	1.50	—	—	—
1K	ST32TA102CT-ND	—	2.07	1.50	—	—	—
3K	ST32TA302CT-ND	ST32TB302CT-ND	2.48	1.79	ST32TA302TR-ND	ST32TB302TR-ND	618.75
30K	ST32TA303CT-ND	ST32TB303CT-ND	2.48	1.79	ST32TA303TR-ND	ST32TB303TR-ND	618.75
100K	—	ST32TB104CT-ND	2.07	1.50	—	ST32TB104TR-ND	517.50
200K	ST32TA204CT-ND	ST32TB204CT-ND	2.07	1.50	ST32TA204TR-ND	ST32TB204TR-ND	517.50
500K	ST32TA504CT-ND	ST32TB504CT-ND	2.07	1.50	ST32TA504TR-ND	ST32TB504TR-ND	517.50

Res. (Ω)	Digi-Key Part No.	Cut Tape Price Each 10	100
10	ST32TG100CT-ND	2.66	1.92
20	ST32TG200CT-ND	2.66	1.92
50	ST32TG500CT-ND	2.48	1.79
200	ST32TG201CT-ND	2.48	1.79
500	ST32TG501CT-ND	2.48	1.79
3K	ST32TG302CT-ND	2.70	1.95
5K	ST32TG502CT-ND	2.48	1.79
20K	ST32TG203CT-ND	2.48	1.79
50K	ST32TG503CT-ND	2.48	1.79
100K	ST32TG104CT-ND	2.48	1.79
200K	ST32TG204CT-ND	2.48	1.79
1M	ST32TG105CT-ND	2.48	1.79

* T&R Denotes Tape and Reel Pricing

Model SM4

Surface Mount 4mm, 12-Turn, Sealed

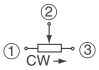

Dim. in mm

SM4W - J Lead, Top Adjust

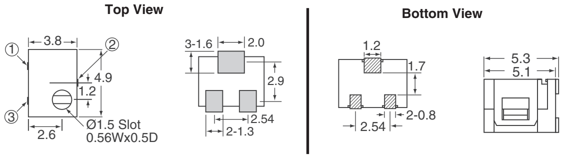

FEATURES:
• Sealed to allow for automatic processing • Stable cermet element • Precious metal contact

ELECTRICAL:
• Resistance Tolerance: ±10% • Maximum Temperature Coefficient: ±100 ppm/°C • Power Rating: 0.25W at 85°C, 0W at 150°C • Maximum Input Voltage: 300VDC or power rating, whichever is less • Maximum Wiper Current: 100mA or power rating, whichever is less • Maximum End Resistance: 1% or 2Ω, whichever is greater • Contact Resistance Variation: 1% or 3Ω, whichever is greater • Operating Temperature Range: -65°C ~ 150°C • Minimum Insulation Resistance: 1000MΩ at 500VDC • Dielectric Strength: 600VAC, 1 minute

MECHANICAL:
• Mechanical Turn: 12 turns • Operating Torque: 20-300 gram-cm • Minimum Stop Strength: Clutch action • Rotational Life: 200 cycles, (▲ R/R ≤ ±3Ω +3%)

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500
200	SM4W201-ND	3.75	3.25	2.94	2.50

Units Marked with Resistance Code and 2-Digit Date Code

Model ST7

Low Profile, Surface Mount, 7mm Squared Multi-Turn

Digi-Reel®

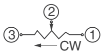

Dim. in mm

ST7A - J Lead, Top Adjust

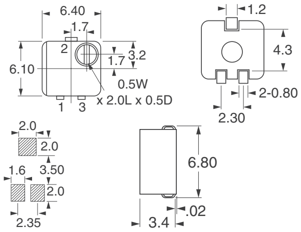

ST7B - Gull Wing, Top Adjust

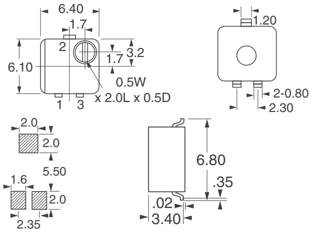

FEATURES: • Sealed to allow for automatic processing • Precious metal alloy contact

ELECTRICAL: • Resistance Tolerance: ±20% standard • Temperature Coefficient of Resistance: 100Ω ~ 1MΩ ±100 ppm/°C, 50Ω ±250 ppm/°C • Power Rating: 1/4W at 70°C • Operating Voltage Maximum: 200VDC or power rating, whichever is less • Wiper Current Maximum: 100mA or power rating, whichever is less • Nominal Electrical Angle: 2.5 turns • Electrical Continuity: Continuous over full mechanical range • End Resistance: 1% or 3Ω, whichever is greater • Resolution: Essentially infinite • Contact Resistance Variation: 1% or 3Ω, whichever is greater • Operating Temperature Range: -55°C ~ 125°C • Minimum Insulation Resistance: 1000MΩ at 500VDC for 2 minutes • Dielectric Strength: 500VAC rms, 1 minute, 1 milliamp maximum

MECHANICAL: • Nominal Mechanical Angle: 3 turns • Operating Torque: 50 gram-cm maximum (0.70 oz.-in.) • Minimum Stop Strength: N/A, wiper idles • Rotational Life: 100 cycles (▲ R/R ≤ 2.0Ω +3%)

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing* 500
1K	—	ST7B102CT-ND	5.33	4.82	4.10	—	ST7B102TR-ND	1710.00
2K	—	ST7B202CT-ND	5.33	4.82	4.10	—	ST7B202TR-ND	1710.00
5K	ST7A502CT-ND	ST7B502CT-ND	5.33	4.82	4.10	—	ST7B502TR-ND	1710.00
20K	ST7A203CT-ND	—	5.33	4.82	4.10	ST7A203TR-ND	—	1710.00
50K	ST7A503CT-ND	ST7B503CT-ND	5.33	4.82	4.10	—	ST7B503TR-ND	1710.00
100K	ST7A104CT-ND	—	5.33	4.82	4.10	—	—	—

Units Marked with Resistance Mark and 1 Digit Date Code.
* T&R Denotes Tape and Reel Pricing.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Model CT6 *6mm Squared Single Turn*

FEATURES: • Sealed to allow for automatic processing • Precious metal alloy contact • Highly automated assembly

ELECTRICAL: • Resistance Tolerance: ±10% standard • Temperature Coefficient of Resistance: 50Ω ~ 2MΩ ±100 ppm/°C, others ±250 ppm/°C • Power Rating: 1/2W at 70°C • Operating Voltage Maximum: 200VDC or power rating, whichever is less • Wiper Current Maximum: 100mA or power rating, whichever is less • Nominal Electrical Angle: 220° • Electrical Continuity: Continuous over full mechanical range • End Resistance: 1% or 2Ω, whichever is greater • Resolution: Essentially infinite • Contact Resistance Variation: 1% or 3Ω, whichever is greater • Operating Temperature Range: -55°C ~ 125°C • Minimum Insulation Resistance: 1000MΩ at 500VDC for 2 minutes • Dielectric Strength: 900VAC rms, 1 minute, 1 milliamp maximum

MECHANICAL: • Nominal Mechanical Angle: 260° • Operating Torque: 20-200 gram-cm maximum (0.27~ 2.78 oz.-in.) • Minimum Stop Strength: 500 gram-cm (6.94 oz.-in.) • Rotational Life: 200 cycles (▲ R/R ≤ 2Ω +3%) • Solderability: Mil-Std-202 Method 208 • Minimum Terminal Strength: 1Kg

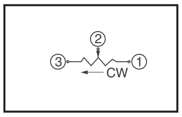

Dim. in mm

CT6P - Top Adjust

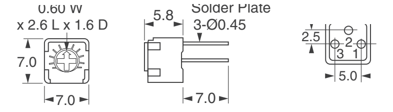

CT6W - Top Adjust

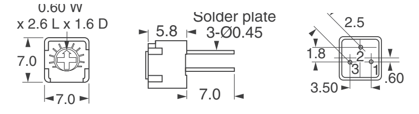

CT6X - Side Adjust

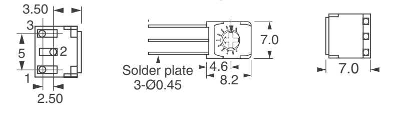

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500	1,000
1K	—	CT6W102-ND	—	.99	.86	.78	.66	.58
5K	CT6P502-ND	—	CT6X502-ND	.84	.73	.66	.56	.49
50K	—	CT6W503-ND	—	.99	.86	.78	.66	.58

Units Marked with Resistance Mark and 1 Digit Date Code.

Model CT94 *9mm Squared Multi-Turn*

ELECTRICAL: • Resistance Tolerance: ±10% • Temperature Coefficient of Resistance: 50Ω ~ 2MΩ ±100 ppm/°C, others ±250 ppm/°C • Power Rating: 1/2W at 70°C, 0W at 125°C • Operating Voltage Maximum: 300VDC or power rating, whichever is less • Wiper Current Maximum: 100mA or power rating, whichever is less • End Resistance Maximum: 1% or 2Ω, whichever is greater • Contact Resistance Variation: 1% or 3Ω, whichever is greater • Operating Temperature Range: -55°C ~ 125°C • Minimum Insulation Resistance: 1000MΩ at 500VDC • Dielectric Strength: 900VAC rms, 1 minute • Number of Mechanical Turns: 18 turns

MECHANICAL: • Operating Torque: 357 gram-cm maximum • Mechanical Stop: Clutch action • Minimum Terminal Strength: 1.02Kg • Rotational Life: 200 cycles (▲ R/R ≤ 2Ω +3%)

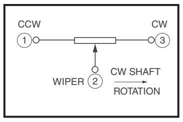

Dim. in mm

CT94X - Side Adjust

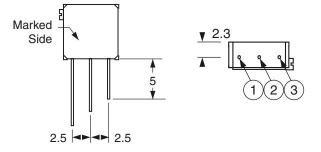

CT94P - Side Adjust

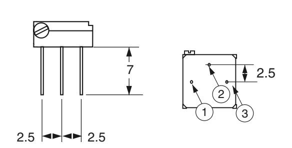

CT94Y - Top Adjust

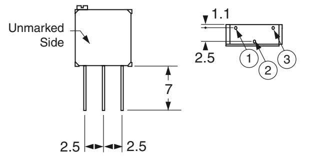

CT94Z- Side Adjust

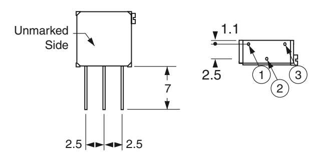

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500
50	CT94X500-ND	1.68	1.56	1.41	1.20
200	CT94X201-ND	1.68	1.56	1.41	1.20
20K	CT94X203-ND	1.68	1.56	1.41	1.20
1 Meg	CT94X105-ND	1.68	1.56	1.41	1.20

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500
10	CT94P100-ND	—	CT94Z100-ND	1.68	1.56	1.41	1.20
20	CT94P200-ND	CT94Y200-ND	CT94Z200-ND	1.68	1.56	1.41	1.20
50	CT94P500-ND	CT94Y500-ND	CT94Z500-ND	1.68	1.56	1.41	1.20
100	CT94P101-ND	—	—	1.68	1.56	1.41	1.20
200	—	—	CT94Z201-ND	1.85	1.72	1.56	1.32
500	—	CT94Y501-ND	CT94Z501-ND	1.85	1.72	1.56	1.32
2K	—	—	CT94Z202-ND	1.85	1.72	1.56	1.32
5K	CT94P502-ND	CT94Y502-ND	CT94Z502-ND	1.68	1.56	1.41	1.20
20K	CT94P203-ND	CT94Y203-ND	CT94Z203-ND	1.68	1.56	1.41	1.20
200K	—	—	CT94Z204-ND	1.85	1.72	1.56	1.32
1 Meg	CT94P105-ND	CT94Y105-ND	—	1.68	1.56	1.41	1.20
2 Meg	CT94P205-ND	—	CT94Z205-ND	1.68	1.56	1.41	1.20

Units Marked with Resistance Code and 1 Digit Date Code.

Model CT9 *9mm Squared Multi-Turn*

FEATURES: • Sealed to withstand board washing • Precious metal contact • Highly automated assembly

ELECTRICAL: • Resistance Tolerance: ±10% standard • Temperature Coefficient of Resistance: 50Ω ~ 2MΩ ±100 ppm/°C, others ±250 ppm/°C • Power Rating: 1/2W at 70°C • Operating Voltage Maximum: 300VDC or power rating, whichever is less • Wiper Current Maximum: 100mA or power rating, whichever is less • Nominal Electrical Angle: 16 turns • Electrical Continuity: Continuous over full mechanical range • End Resistance: 1% or 2Ω, whichever is greater • Resolution: Essentially infinite • Contact Resistance Variation: 1% or 3Ω, whichever is greater • Operating Temperature Range: -55°C ~ 125°C • Minimum Insulation Resistance: 1000MΩ at 500VDC for 2 minutes • Dielectric Strength: 900VAC rms, 1 minute, 1 milliamp maximum

MECHANICAL: • Nominal Mechanical Angle: 18 turns • Operating Torque: 360 gram-cm maximum (5 oz.-in.) • Minimum Stop Strength: N/A, wiper idles • Rotational Life: 200 cycles, 10Ω ~ 200Ω, ▲ R/R ≤ ± (0.5Ω + 3%), 500Ω ~ 5MΩ ▲ R/R ≤ ± (0.5Ω + 2%) • Solderability: Mil-Std-202 Method 208 • Minimum Terminal Strength: 1Kg

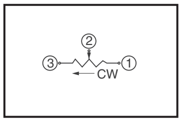

Dim. in mm

CT9P — Side Adjust

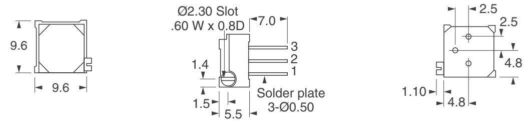

CT9X — Side Adjust

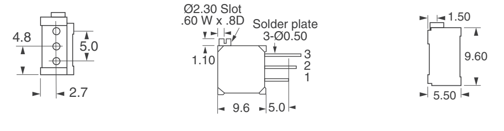

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500	1,000
2K	—	CT9X202-ND	1.65	1.56	1.32	1.23	1.07
100K	CT9P104-ND	CT9X104-ND	1.65	1.56	1.32	1.23	1.07

Units Marked with Resistance Mark and 1 Digit Date Code.

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Multi-turn Cermet Trimmer Potentiometers –
T93 Series 3/8" Square

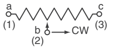

FEATURES:
• Industrial Grade • Tests according to CECC 41 000 • Contact resistance variation <1% typical

ELECTRICAL SPECIFICATIONS:
• **Resistive Element**: Cermet • **Electrical Travel**: 21 turns • **Tolerance (Standard)**: ±10% • **Power Rating (Linear)**: 0.5W @ 70°C • **Limiting Element Voltage (Linear Law)**: 250V • **Contact Resistance Variation**: 2% Rn or 2Ω • **End Resistance**: 1Ω typical • **Dielectric Strength (RMS)**: 1000V • **Insulation Resistance (500VDC)**: 10^6MΩ

MECHANICAL SPECIFICATIONS:
• **Mechanical Travel**: 23 turns ±5 • **Operating Torque**: 1.5Ncm maximum • **End Stop Torque**: Clutch Action

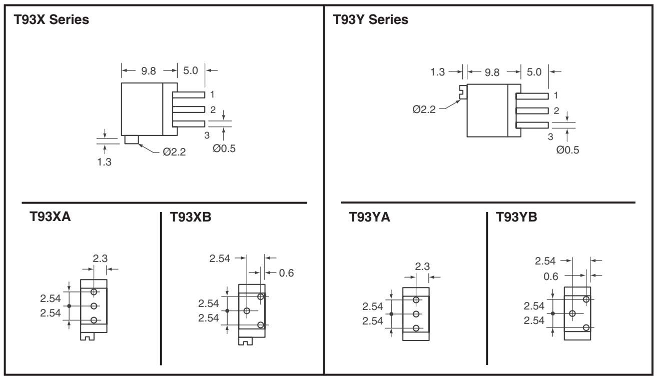

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.	Pricing 1	10	50	100
		T93XA and T93XB Series				
100	T93XA-100-ND	—	1.25	12.14	57.12	107.10
200	T93XA-200-ND	—	1.25	12.14	57.12	107.10
500	T93XA-500-ND	T93XB-500-ND	1.25	12.14	57.12	107.10
1.0K	T93XA-1.0K-ND	T93XB-1.0K-ND	1.25	12.14	57.12	107.10
2.0K	T93XA-2.0K-ND	T93XB-2.0K-ND	1.25	12.14	57.12	107.10
5.0K	T93XA-5.0K-ND	T93XB-5.0K-ND	1.25	12.14	57.12	107.10
10K	T93XA-10K-ND	T93XB-10K-ND	1.25	12.14	57.12	107.10
20K	T93XA-20K-ND	T93XB-20K-ND	1.25	12.14	57.12	107.10
50K	T93XA-50K-ND	T93XB-50K-ND	1.25	12.14	57.12	107.10
100K	T93XA-100K-ND	T93XB-100K-ND	1.25	12.14	57.12	107.10
		T93YA and T93YB Series				
10	T93YA-10-ND	—	1.25	12.14	57.12	107.10
20	T93YA-20-ND	—	1.25	12.14	57.12	107.10
50	T93YA-50-ND	—	1.25	12.14	57.12	107.10
100	T93YA-100-ND	T93YB-100-ND	1.25	12.14	57.12	107.10
200	T93YA-200-ND	T93YB-200-ND	1.25	12.14	57.12	107.10
500	T93YA-500-ND	T93YB-500-ND	1.25	12.14	57.12	107.10
1.0K	T93YA-1.0K-ND	T93YB-1.0K-ND	1.25	12.14	57.12	107.10
2.0K	T93YA-2.0K-ND	T93YB-2.0K-ND	1.25	12.14	57.12	107.10
5.0K	T93YA-5.0K-ND	T93YB-5.0K-ND	1.25	12.14	57.12	107.10
10K	T93YA-10K-ND	T93YB-10K-ND	1.25	12.14	57.12	107.10
20K	T93YA-20K-ND	T93YB-20K-ND	1.25	12.14	57.12	107.10
50K	T93YA-50K-ND	T93YB-50K-ND	1.25	12.14	57.12	107.10
100K	T93YA-100K-ND	T93YB-100K-ND	1.25	12.14	57.12	107.10
200K	T93YA-200K-ND	T93YB-200K-ND	1.25	12.14	57.12	107.10
500K	T93YA-500K-ND	T93YB-500K-ND	1.25	12.14	57.12	107.10
1.0M	T93YA-1.0M-ND	T93YB-1.0M-ND	1.25	12.14	57.12	107.10

Multi-turn Cermet Trimmer Potentiometers – T18 Series 3/4" Rectangular

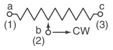

FEATURES:
• Industrial Grade • MIL-R-22097 • Tests according to CECC 41 000

ELECTRICAL SPECIFICATIONS:
• **Resistive Element**: Cermet • **Electrical Travel**: 15 turns ±1 • **Tolerance (Standard)**: ±10% • **Power Rating (Linear)**: 0.5W @ 70°C • **Limiting Element Voltage (Linear Law)**: 250V • **Contact Resistance Variation**: 2% Rn or 1Ω • **End Resistance**: 1Ω typical • **Dielectric Strength (RMS)**: 1000V • **Insulation Resistance (500VDC)**: 10^6MΩ

MECHANICAL SPECIFICATIONS:
• **Mechanical Travel**: 18 turns ±5 • **Operating Torque**: 2Ncm maximum • **End Stop Torque**: Clutch Action
• **Unit Weight**: 1g maximum • **Wiper (Actual Travel)**: Positioned at approximately 50%

ENVIRONMENTAL SPECIFICATIONS:
• **Temperature Range**: -55°C ~ 125°C • **Climatic Category**: 55/125/56 • **Sealing**: Fully sealed; Container IP67

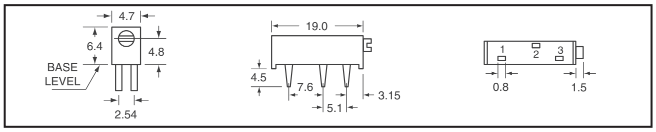

Resistance (Ω)	Digi-Key Part No.	Pricing 1	10	50	100
100	T18-100-ND	1.62	15.84	74.25	132.00
200	T18-200-ND	1.62	15.84	74.25	132.00
500	T18-500-ND	1.62	15.84	74.25	132.00
1.0K	T18-1.0K-ND	1.62	15.84	74.25	132.00
2.0K	T18-2.0K-ND	1.62	15.84	74.25	132.00
5.0K	T18-5.0K-ND	1.62	15.84	74.25	132.00
10K	T18-10K-ND	1.62	15.84	74.25	132.00
20K	T18-20K-ND	1.62	15.84	74.25	132.00
50K	T18-50K-ND	1.62	15.84	74.25	132.00
100K	T18-100K-ND	1.62	15.84	74.25	132.00
200K	T18-200K-ND	1.62	15.84	74.25	132.00
500K	T18-500K-ND	1.62	15.84	74.25	132.00
1.0M	T18-1.0M-ND	1.62	15.84	74.25	132.00

Multi-turn Sealed Container Cermet Trimmer Potentiometers –
T63 Series 1/4" Square

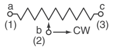

FEATURES:
• Industrial Grade • Tests according to CECC 41 000 • Multi-turn operation • Low contact resistance variation 1% typical

ELECTRICAL SPECIFICATIONS:
• **Resistive Element**: Cermet • **Electrical Travel**: 13 turns ±2 • **Tolerance (Standard)**: ±10% • **Power Rating (Linear)**: 0.25W @ 85°C • **Limiting Element Voltage (Linear Law)**: 250V • **Contact Resistance Variation**: 2% Rn or 2Ω • **End Resistance**: 1Ω typical • **Dielectric Strength (RMS)**: 1000V • **Insulation Resistance (500VDC)**: 10^6MΩ

MECHANICAL SPECIFICATIONS:
• **Mechanical Travel**: 15 turns ±5 • **Operating Torque**: 1.5Ncm maximum • **End Stop Torque**: Clutch Action
• **Unit Weight**: 0.5g maximum • **Wiper (Actual Travel)**: Positioned at approximately 50%

ENVIRONMENTAL SPECIFICATIONS:
• **Temperature Range**: -55°C ~ 155°C • **Climatic Category**: 55/125/56 • **Sealing**: Fully sealed; Container IP67

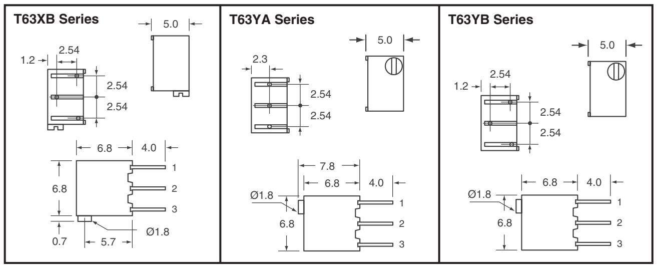

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.	Pricing 1	10	50	100
		T63XB Series				
500	T63XB-500-ND	—	3.34	30.40	144.40	266.00
1.0K	T63XB-1.0K-ND	—	3.34	30.40	144.40	266.00
5.0K	T63XB-5.0K-ND	—	3.34	30.40	144.40	266.00
2.0K	T63XB-2.0K-ND	—	3.34	30.40	144.40	266.00
10K	T63XB-10K-ND	—	3.34	30.40	144.40	266.00
20K	T63XB-20K-ND	—	3.34	30.40	144.40	266.00
50K	T63XB-50K-ND	—	3.34	30.40	144.40	266.00
100K	T63XB-100K-ND	—	3.34	30.40	144.40	266.00
		T63YA and T63YB Series				
100	—	T63YB-100-ND	3.34	30.40	144.40	266.00
200	—	T63YB-200-ND	3.34	30.40	144.40	266.00
1.0K	T63YA-1.0K-ND	T63YB-1.0K-ND	3.34	30.40	144.40	266.00
2.0K	—	T63YB-2.0K-ND	3.34	30.40	144.40	266.00
5.0K	—	T63YB-5.0K-ND	3.34	30.40	144.40	266.00
10K	T63YA-10K-ND	T63YB-10K-ND	3.34	30.40	144.40	266.00
20K	—	T63YB-20K-ND	3.34	30.40	144.40	266.00
50K	—	T63YB-50K-ND	3.34	30.40	144.40	266.00
100K	T63YA-100K-ND	T63YB-100K-ND	3.34	30.40	144.40	266.00
200K	—	T63YB-200K-ND	3.34	30.40	144.40	266.00
500K	—	T63YB-500K-ND	3.34	30.40	144.40	266.00
1.0M	—	T63YB-1.0M-ND	3.34	30.40	144.40	266.00

VISHAY. Sfernice

Single Turn Cermet Trimmer Potentiometers –
T7 Series

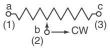

FEATURES:
- Industrial Grade • Tests according to CECC 41100 • Low temperature coefficient (100ppm/k typical)
- Easy to read scale

ELECTRICAL SPECIFICATIONS:
• **Resistive Element**: Cermet • **Electrical Travel**: 270° ±15° • **Tolerance (Standard)**: ±20% • **Power Rating (Linear)**: 0.5W @ 85°C • **Limiting Element Voltage (Linear Law)**: 250V • **Contact Resistance Variation**: 3% or 3Ω • **End Resistance**: 1Ω typical • **Dielectric Strength (RMS)**: 1000V • **Insulation Resistance**: 10^6MΩ

MECHANICAL SPECIFICATIONS:
• **Mechanical Travel**: 300° ±5° • **Operating Torque**: 2Ncm maximum • **End Stop Torque**: 4Ncm maximum
• **Unit Weight**: 0.5g maximum

ENVIRONMENTAL SPECIFICATIONS:
• **Temperature Range**: -55°C ~ 125°C • **Climatic Category**: 55/100/56 • **Sealing**: IP64

T7YA

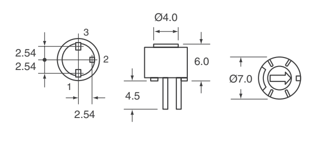

T7YB

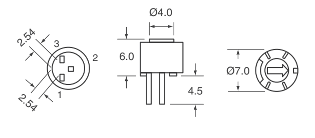

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.	Pricing 1	10	50	100
		T7YA and T7YB Series				
100	—	T7YB-100-ND	1.64	14.72	68.67	127.53
220	—	T7YB-220-ND	1.64	14.72	68.67	127.53
470	—	T7YB-470-ND	1.64	14.72	68.67	127.53
1.0K	T7YA-1.0K-ND	T7YB-1.0K-ND	1.64	14.72	68.67	127.53
2.2K	T7YA-2.2K-ND	T7YB-2.2K-ND	1.64	14.72	68.67	127.53
4.7K	T7YA-4.7K-ND	T7YB-4.7K-ND	1.64	14.72	68.67	127.53
10K	T7YA-10K-ND	T7YB-10K-ND	1.64	14.72	68.67	127.53
22K	T7YA-22K-ND	T7YB-22K-ND	1.64	14.72	68.67	127.53
47K	T7YA-47K-ND	T7YB-47K-ND	1.64	14.72	68.67	127.53
100K	T7YA-100K-ND	T7YB-100K-ND	1.64	14.72	68.67	127.53
220K	T7YA-220K-ND	T7YB-220K-ND	1.64	14.72	68.67	127.53
470K	T7YA-470K-ND	T7YB-470K-ND	1.64	14.72	68.67	127.53
1.0M	T7YA-1.0M-ND	T7YB-1.0M-ND	1.64	14.72	68.67	127.53

Single Turn Sealed Cermet Potentiometers –
T73 Series 1/4” Square

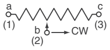

FEATURES:
- Industrial grade • Fully sealed • Miniature package • Rotor designed for automatic machine adjust interface
- Withstands harsh environments and immersion cleaning process

ELECTRICAL SPECIFICATIONS:
• **Resistive Element**: Cermet • **Electrical Travel**: 240° nominal • **Tolerance (Standard)**: ±10% • **Power Rating (Linear)**: 0.5W @ 70°C • **Limiting Element Voltage**: 300V • **Contact Resistance Variation**: 1% or 3Ω maximum whichever is greater • **Absolute Minimum Resistance**: 1% or 2Ω maximum whichever is greater • **Adjustability**: ±0.05% voltage, ±0.15% resistance • **Resolution**: Infinite • **Insulation Resistance (500VDC)**: 10^3MΩ • **Dielectric Strength**: 900VAC sea level; 350VAC 80,000 ft.

MECHANICAL SPECIFICATIONS:
• **Mechanical Travel**: 270° • **Operating Torque**: 2.1Ncm maximum • **End Stop Torque**: 4.9Ncm maximum
• **Unit Weight**: 0.6g maximum

ENVIRONMENTAL SPECIFICATIONS:
• **Temperature Range**: -55°C ~ 125°C • **Climatic Category**: 55/100/56 • **Sealed Test**: 85°C Fluoriert (Fluoriert is a registered trademark of 3M Co.) • **Flammability**: UL 94-V0

T73XX Series

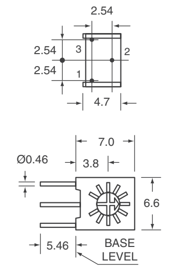

T73Y Series

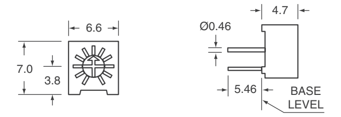

T73YE

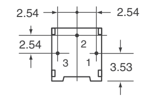

T73YP

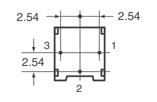

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.	Pricing 1	10	50	100
		T73XX Series				
1.0K	T73XX-1.0K-ND	—	.98	8.82	41.16	76.44
2.0K	T73XX-2.0K-ND	—	.98	8.82	41.16	76.44
5.0K	T73XX-5.0K-ND	—	.98	8.82	41.16	76.44
10K	T73XX-10K-ND	—	.98	8.82	41.16	76.44
20K	T73XX-20K-ND	—	.98	8.82	41.16	76.44
50K	T73XX-50K-ND	—	.98	8.82	41.16	76.44
100K	T73XX-100K-ND	—	.98	8.82	41.16	76.44
200K	T73XX-200K-ND	—	.98	8.82	41.16	76.44
		T73YE and T73YP Series				
200	—	T73YP-200-ND	.98	8.82	41.16	76.44
500	T73YE-500-ND	T73YP-500-ND	.98	8.82	41.16	76.44
1.0K	T73YE-1.0K-ND	T73YP-1.0K-ND	.98	8.82	41.16	76.44
2.0K	T73YE-2.0K-ND	T73YP-2.0K-ND	.98	8.82	41.16	76.44
5.0K	T73YE-5.0K-ND	T73YP-5.0K-ND	.98	8.82	41.16	76.44
10K	T73YE-10K-ND	T73YP-10K-ND	.98	8.82	41.16	76.44
20K	T73YE-20K-ND	T73YP-20K-ND	.98	8.82	41.16	76.44
50K	T73YE-50K-ND	T73YP-50K-ND	.98	8.82	41.16	76.44
100K	T73YE-100K-ND	T73YP-100K-ND	.98	8.82	41.16	76.44
200K	—	T73YP-200K-ND	.98	8.82	41.16	76.44
500K	—	T73YP-500K-ND	.98	8.82	41.16	76.44
1.0M	—	T73YP-1.0M-ND	.98	8.82	41.16	76.44

Multi-turn Cermet Fully Sealed Trimmer Potentiometers –
TS63Y Series 1/4” Square

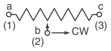

FEATURES:
- Industrial grade • Multi-turn operation • Full sealing • Tests according to CECC 41 000

ELECTRICAL SPECIFICATIONS:
• **Resistive Element**: Cermet • **Electrical Travel**: 13 turns ±2 • **Tolerance (Standard)**: ±10% • **Power Rating (Linear)**: 0.25W @ 85°C • **Limiting Element Voltage**: 250V • **Contact Resistance Variation**: 2% Rn or 2Ω • **End Resistance**: 1Ω typical • **Dielectric Strength (RMS)**: 1000V • **Insulation Resistance**: 10^6MΩ

MECHANICAL SPECIFICATIONS:
• **Mechanical Travel**: 15 turns ±5 • **Operating Torque**: 1.5Ncm maximum • **End Stop Torque**: Clutch Action
• **Unit Weight**: 0.5g maximum • **Wiper (Actual travel)**: Positioned at approximatly 50%

ENVIRONMENTAL SPECIFICATIONS:
• **Temperature Range**: -55°C ~ 155°C • **Climatic Category**: 55/125/56 • **Sealing**: Sealed container, solder immersion IP67

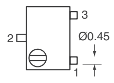

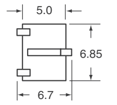

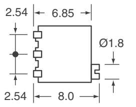

Resistance (Ω)	Digi-Key Part No.	Cut Tape 5	10	100	Digi-Key Part No.	Tape and Reel Pricing 500
100	TS63Y-100CT-ND	13.29	23.04	208.21	TS63Y-100TR-ND	722.00
200	TS63Y-200CT-ND	13.29	23.04	208.21	TS63Y-200TR-ND	722.00
500	TS63Y-500CT-ND	13.29	23.04	208.21	TS63Y-500TR-ND	722.00
1.0K	TS63Y-1.0KCT-ND	13.29	23.04	208.21	TS63Y-1.0KTR-ND	722.00
2.0K	TS63Y-2.0KCT-ND	13.29	23.04	208.21	TS63Y-2.0KTR-ND	722.00
5.0K	TS63Y-5.0KCT-ND	13.29	23.04	208.21	TS63Y-5.0KTR-ND	722.00
10K	TS63Y-10KCT-ND	13.29	23.04	208.21	TS63Y-10KTR-ND	722.00
20K	TS63Y-20KCT-ND	13.29	23.04	208.21	TS63Y-20KTR-ND	722.00
50K	TS63Y-50KCT-ND	13.29	23.04	208.21	TS63Y-50KTR-ND	722.00
100K	TS63Y-100KCT-ND	13.29	23.04	208.21	TS63Y-100KTR-ND	722.00
500K	TS63Y-500KCT-ND	13.29	23.04	208.21	TS63Y-500KTR-ND	722.00

VISHAY Sfernice

Single Turn Sealed Cermet Trimmer Potentiometers

TS53Y Series 4mm

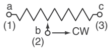

FEATURES:
- Small size for optimum packing density • Suitable for both manual or automatic operation

ELECTRICAL SPECIFICATIONS:
• **Resistive Element**: Cermet • **Electrical Travel**: 220° ±15° • **Tolerance (Standard)**: ±20% • **Power Rating (Linear)**: 0.25W @ 70°C • **Limiting Element Voltage**: 200V • **Contact Resistance Variation**: 1% or 3Ω • **End Resistance**: 0.1% or 3Ω typical • **Dielectric Strength (RMS)**: 1000V • **Insulation Resistance**: 10^6MΩ

MECHANICAL SPECIFICATIONS:
• **Mechanical Travel**: 270° ±10° • **Operating Torque**: 1.5Ncm maximum • **End Stop Torque**: 3.5Ncm maximum • **Unit Weight**: 0.15g maximum

ENVIRONMENTAL SPECIFICATIONS:
• **Temperature Range**: -55°C ~ 125°C • **Climatic Category**: 55/125/56 • **Sealing**: Sealed container

TS53YJ

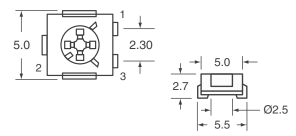

TS53YL

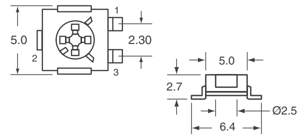

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Pricing 5	10	100	Tape and Reel† Pricing 500
		TS53YJ and TS53YL Series				
100	—	TS53YL-100CT-ND	4.89	8.48	76.61	265.50
200	TS53YJ-200CT-ND	TS53YL-200CT-ND	4.89	8.48	76.61	265.50
500	TS53YJ-500CT-ND	TS53YL-500CT-ND	4.89	8.48	76.61	265.50
1.0K	TS53YJ-1.0KCT-ND	TS53YL-1.0KCT-ND	4.89	8.48	76.61	265.50
2.0K	TS53YJ-2.0KCT-ND	TS53YL-2.0KCT-ND	4.89	8.48	76.61	265.50
5.0K	TS53YJ-5.0KCT-ND	TS53YL-5.0KCT-ND	4.89	8.48	76.61	265.50
10K	TS53YJ-10KCT-ND	TS53YL-10KCT-ND	4.89	8.48	76.61	265.50
20K	TS53YJ-20KCT-ND	TS53YL-20KCT-ND	4.89	8.48	76.61	265.50
50K	TS53YJ-50KCT-ND	TS53YL-50KCT-ND	4.89	8.48	76.61	265.50
100K	TS53YJ-100KCT-ND	TS53YL-100KCT-ND	4.89	8.48	76.61	265.50
200K	TS53YJ-200KCT-ND	TS53YL-200KCT-ND	4.89	8.48	76.61	265.50
500K	TS53YJ-500KCT-ND	TS53YL-500KCT-ND	4.89	8.48	76.61	265.50

† For Tape and Reel part number, change CT-ND to TR-ND.

VISHAY Spectrol

Cermet Trimmers

064 Series, 3/8" Square (10mm) Multi-Turn

Electrical Specifications: • Electrical Travel: 21 turns ±2 • Tolerance: Standard, ±10% • Power Rating: Linear, 0.5W at + 70°C • Limiting Element Voltage (Linear Law): 250V • Contact Resistance Variation: 2% Rn or 2Ω • End Resistance (Typical): 1Ω • Dielectric Strength (RMS): 1000V • Insulation Resistance (500 VDC) 10^6MΩ

Features: • Industrial Grade • Tests according to CECC 41 000

Fig. 1

Dimensions in mm

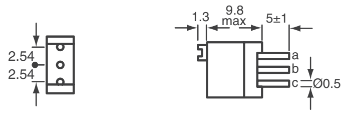

Fig. 2

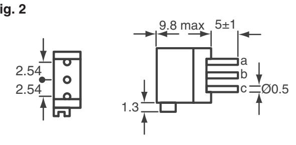

Fig. 3

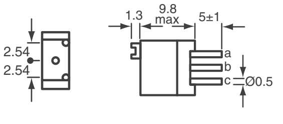

Fig.	Ω	Digi-Key Part No.	Price Each 1	25	50	Vishay Part No.
1	500	SP064W-500-ND	1.44	1.40	1.15	064W501
	1.0K	SP064W-1.0K-ND	1.44	1.40	1.15	064W102
	2.0K	SP064W-2.0K-ND	1.44	1.40	1.15	064W202
	5.0K	SP064W-5.0K-ND	1.44	1.40	1.15	064W502
	10K	SP064W-10K-ND	1.44	1.40	1.15	064W103
	20K	SP064W-20K-ND	1.44	1.40	1.15	064W203
	50K	SP064W-50K-ND	1.44	1.40	1.15	064W503
	100K	SP064W-100K-ND	1.44	1.40	1.15	064W104
	200K	SP064W-200K-ND	1.44	1.40	1.15	064W204
2	1.0K	SP064X-1.0K-ND	1.44	1.40	1.15	064X102
	5.0K	SP064X-5.0K-ND	1.44	1.40	1.15	064X502
	10K	SP064X-10K-ND	1.44	1.40	1.15	064X103
	100K	SP064X-100K-ND	1.44	1.40	1.15	064X104
3	1.0K	SP064Y-1.0K-ND	1.44	1.40	1.15	064Y102
	5.0K	SP064Y-5.0K-ND	1.44	1.40	1.15	064Y502
	10K	SP064Y-10K-ND	1.44	1.40	1.15	064Y103
	100K	SP064Y-100K-ND	1.44	1.40	1.15	064Y104

063 Series, 3/8" Square (10mm) Single-Turn

Electrical Specifications: • Effective Travel: 270° Nominal • Resistance Tolerance: ±10% • End Resistance: 2Ω or 1%, whichever is greater • Temperature Coefficient or Resistance: 100 ppm/°C. 100Ω thru to 2MΩ, 0 to 250 ppm/°C below 100Ω • Power Rating: 0.5W at 70°C derated linearly to 0W at 125°C, Maximum Voltage not to exceed 300V • Dielelectric Withstanding Voltage: 1000VAC at sea level, 250VAC at 80,000 feet (24,000 meters) • Insulation Resistance (500 VDC): 1000MΩ minimum • Contact Resistance Variation: 1% or 1Ω, whichever is greater

Features: • Arrow and graduations for repeatable settings • "O" ring seal for solvent and aqueous washing • I.C. style pins for easy PCB assembly • Rigid board mounting achieved with pins secured in housing • Solder plated terminals for Good Solderability • High temperature soldered terminations for high reliability • Multi-finger wiper for better contact resistance • Solid end stop • Flame retardant housing to U_L rated VO

Dimensions in mm

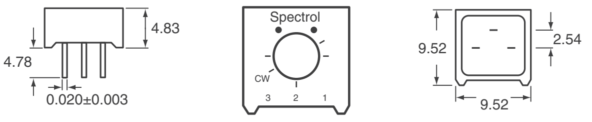

Ω	Digi-Key Part No.	Price Each 1	25	50	Vishay Part No.
1.0K	SP063-1.0K-ND	1.55	1.53	1.25	063P102
2.0K	SP063-2.0K-ND	1.55	1.53	1.25	063P202
5.0K	SP063-5.0K-ND	1.55	1.53	1.25	063P502
10K	SP063-10K-ND	1.55	1.53	1.25	063P103
20K	SP063-20K-ND	1.55	1.53	1.25	063P203
50K	SP063-50K-ND	1.55	1.53	1.25	063P503
100K	SP063-100K-ND	1.55	1.53	1.25	063P104
200K	SP063-200K-ND	1.55	1.53	1.25	063P204

043 Series, 3/4" Rectangular (19mm) Multi-Turn

Electrical Specifications: • Electrical Travel: 15 turns ±1 • Tolerance: ±10% • Power Rating: 0.50W at +70°C • Limiting Element Voltage (Linear Law): 250V • Contact Resistance Variation: 2% Rn or 1Ω • End Resistance (Typical): 1Ω • Dielectric Strength (RMS): 1000V • Insulation Resistance (500VDC): 10^6 MΩ

Features: • Chevron shaft for sealing and smooth consistent torque • Solder terminations for improved reliability • Multi-finger wiper for better C.R.V.

Dimensions in mm

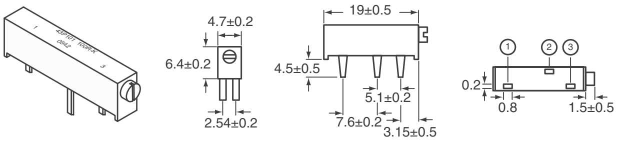

Ω	Digi-Key Part No.	Price Each 1	25	50	Vishay Part No.
1.0K	SP043-1.0K-ND	1.42	1.34	1.20	043P102
2.0K	SP043-2.0K-ND	1.42	1.34	1.20	043P202
5.0K	SP043-5.0K-ND	1.42	1.34	1.20	043P502
10K	SP043-10K-ND	1.42	1.34	1.20	043P103
20K	SP043-20K-ND	1.42	1.34	1.20	043P203
50K	SP043-50K-ND	1.42	1.34	1.20	043P503
100K	SP043-100K-ND	1.42	1.34	1.20	043P104
200K	SP043-200K-ND	1.42	1.34	1.20	043P204

Trimmer Adjustment Tool

Mechanical Specifications:

Material: Glass filled nylon body with corrosion resistant stainless steel blades

Features:
- Extended, as well as recessed blade for critical adjustments
- Designed to adjust trimmers of all sizes

Dimensions in mm

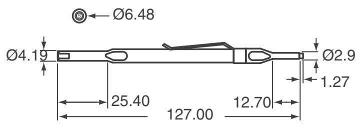

Digi-Key Part No.	Price Each 1	25	50	100	Vishay Part No.
SPTOOL-ND	1.27	1.18	1.09	1.01	008T000

Single Turn Cermet Knob Potentiometers

P16 Series 1W

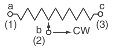

The P16 is a revolutionary concept in panel mounted potentiometers. This unique design consists of a knob driving and incorporated cermet potentiometer. Only the mounting hardware and terminals are situated on the backside of the panel reducing the required clearance to a minimum.

FEATURES:

• Test according to CECC 41300 • For professional and industrial applications • Compact (integrated) • Minimum clearance required • Safety in use due to good insulation: $>10^4$MΩ 500VDC

ELECTRICAL SPECIFICATIONS:

• **Resistive Element**: Cermet • **Electrical Travel**: 270° ±10° • **Tolerance (Standard)**: ±20% • **Power Rating (Linear)**: 1W @ 40°C • **Limiting Element Voltage (Linear Law)**: 350V • **Contact Resistance Variation**: 3% Rn or 3Ω • **End Resistance**: 1Ω typical • **Dielectric Strength (RMS)**: 2500V • **Insulation Resistance**: $\geq 10^6$MΩ

MECHANICAL SPECIFICATIONS:

• **Mechanical Travel**: 300° ±5° • **Operating Torque**: 2Ncm typical • **End Stop Torque**: 25Ncm maximum • **Maximum Tightening Torque of Mounting Nut**: 250Ncm • **Unit Weight**: 4.5g typical

ENVIRONMENTAL SPECIFICATIONS:

• **Temperature Range**: -40°C ~ 85°C • **Sealing**: Sealed container and panel sealed • **Protection Grades**: IP67

Dimensions in mm

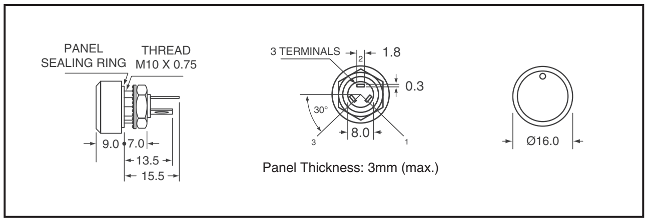

Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	50	100
100	P16NP-100-ND	15.04	12.20	9.76	8.95
470	P16NP-470-ND	15.04	12.20	9.76	8.95
1.0K	P16NP-1.0K-ND	15.04	12.20	9.76	8.95
2.2K	P16NP-2.2K-ND	15.04	12.20	9.76	8.95
4.7K	P16NP-4.7K-ND	15.04	12.20	9.76	8.95
10K	P16NP-10K-ND	15.04	12.20	9.76	8.95
22K	P16NP-22K-ND	15.04	12.20	9.76	8.95
47K	P16NP-47K-ND	15.04	12.20	9.76	8.95
100K	P16NP-100K-ND	15.04	12.20	9.76	8.95
470K	P16NP-470K-ND	15.04	12.20	9.76	8.95
1.0M	P16NP-1.0M-ND	15.04	12.20	9.76	8.95

Single Turn Cermet Fully Sealed Potentiometers

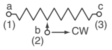

PE30 Series 3W

FEATURES:

• High power rating • Low temperature coefficient (100ppm/°C typical) • Full sealing • Mechanical strength • Use of faston 2.86 connections • Test according to CECC 41 000

ELECTRICAL SPECIFICATIONS:

• **Resistive Element**: Cermet • **Electrical Travel**: 270° ±10° • **Tolerance (Standard)**: ±20% • **Power Rating (Linear)**: 3W @ 70°C • **Limiting Element Voltage (Linear Law)**: 300V • **Contact Resistance Variation**: 3% Rn or 3Ω • **End Resistance**: 1Ω typical • **Dielectric Strength (RMS)**: 2500V • **Insulation Resistance (500VDC)**: 10^6MΩ

Dimensions in mm

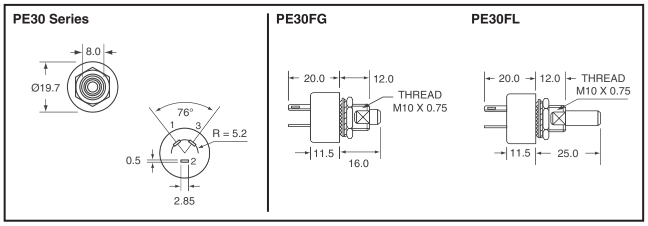

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	50	100
		PE30FG and PE30FL Series				
1.0K	PE30FG-1.0K-ND	PE30FL-1.0K-ND	22.74	18.20	16.68	15.17
4.7K	PE30FG-4.7K-ND	PE30FL-4.7K-ND	22.74	18.20	16.68	15.17
10K	—	PE30FL-10K-ND	22.74	18.20	16.68	15.17

Single and Dual-Ganged Conductive Plastic Potentiometers

P9 Series

FEATURES: • Conductive plastic element • Ultra compact (extra miniature module size)

ELECTRICAL SPECIFICATIONS: • **Resistive Element**: Conductive Plastic • **Electrical Travel**: 270° ±10° • **Tolerance (Standard)**: ±20% • **Power Rating @ 70°C (Linear Law)**: 0.1W • **Power Rating @ 70°C (Multiple assemblies Linear Law)**: 0.05W per module • **Temperature Coeffiecient**: ±500 ppm typical • **Limiting Element Voltage**: 10VDC, 50VAC • **End Resistance**: 3Ω typical • **Contact Resistance Variation (Linear Law - Typical)**: 2% of nominal resistance • **Independent Linearity (Linear Law)**: ±5% typical • **Insulation Resistance**: 100MΩ @ 250VDC • **Dielectric Strength (RMS)**: 300VAC during 1 minute • **Attenuation (Typical)**: 90dB max. / 0.05dB min.

MECHANICAL SPECIFICATIONS: • **Mechanical Travel**: 300° ±5° • **Mechanical Rotation Life**: 25,000 cycles • **Operating Torque**: 0.2Ncm up to 2.5Ncm typical • **End Stop Torque**: 50Ncm

Dimensions in mm

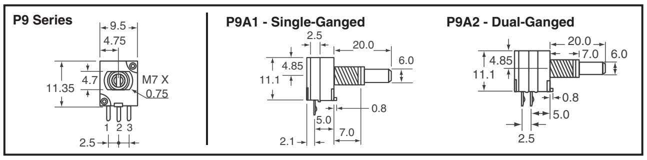

Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	50	100
	P9A1 Series				
1.0K	P9A1-1.0K-ND	7.14	5.80	4.64	4.25
10K	P9A1-10K-ND	8.67	7.03	5.63	5.16
50K	P9A1-50K-ND	8.67	7.03	5.63	5.16
	P9A2 Series				
1.0K	P9A2-1.0K-ND	12.23	9.92	7.94	7.28
10K	P9A2-10K-ND	12.23	9.92	7.94	7.28
50K	P9A2-50K-ND	12.23	9.92	7.94	7.28

Wirewound Potentiometers

132 Series, 2.75W, 1 5/16" Single-Turn

Electrical Specifications: • Housing: Molded glass filled thermoplastic • Rear Lid: Glass filed thermoset plastic • Shaft: Stainless Steel, non-magnetic • Terminals: Brass, plated for solderability, non-passivated • Resistance tolerance: ±3% Power Rating: 2.75W (Derated to 0 + 125°C)

Features: • Continuous Rotation or with Mechanical Stops • Rotational Life, Shaft Revolutions: 500,000 • *Mounting Hardware included*

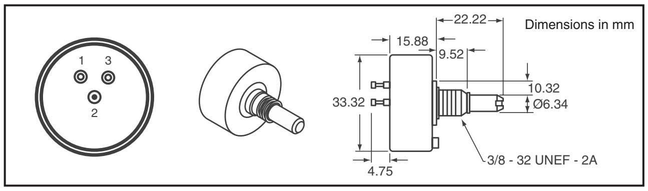

Res. Ω	Digi-Key Part No.	Price Each 1	5	10	Vishay Part No.
		Continuous Rotation			
1.0K	SP132C-1.0K-ND	27.83	25.13	22.41	132-0-0-102
2.0K	SP132C-2.0K-ND	27.83	25.13	22.41	132-0-0-202
5.0K	SP132C-5.0K-ND	27.83	25.13	22.41	132-0-0-502
10K	SP132C-10K-ND	27.83	25.13	22.41	132-0-0-103
		Mechanical Stops			
1.0K	SP132S-1.0K-ND	27.25	24.78	22.72	132-2-0-102
2.0K	SP132S-2.0K-ND	27.25	24.78	22.72	132-2-0-202
5.0K	SP132S-5.0K-ND	27.25	24.78	22.72	132-2-0-502
10K	SP132S-10K-ND	27.25	24.78	22.72	132-2-0-103

140 Series, 2W, 1/2" Single-Turn

Electrical Specifications: • Resistance Tolerance: ±5% • Power Rating: 2W at 40°C ambient derating linearly to 0 at 125° • Rotational Life: 500,000 Shaft Revolutions • Temperature Range: -55°C ~ 125°C

Material Specifications: • Shaft: Stainless steel, non-magnetic, non-passivated • Housing: Aluminum, anodized • Rear Lid: Molded glass filled thermoset plastic • Terminals: Brass, gold plated • Lockwasher Internal Tooth: Steel, nickel plated • Panel Nut: Brass, nickel plated • *Mounting Hardware included*

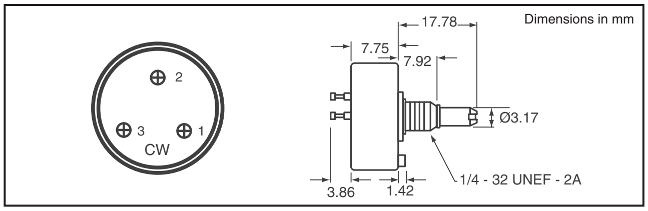

Res. Ω	Digi-Key Part No.	Price Each 1	5	10	Vishay Part No.
1.0K	SP140-1.0K-ND	63.50	45.25	38.50	140-0-0-102
2.0K	SP140-2.0K-ND	63.50	45.25	38.50	140-0-0-202
5.0K	SP140-5.0K-ND	63.50	45.25	38.50	140-0-0-502
10K	SP140-10K-ND	63.50	45.25	38.50	140-0-0-103

(Continued)

157 Series, 1.5W, 7/8" Single-Turn

Environmental Specifications: • Temperature: -55°C ~ 125°C • Rotational Life: 10 million shaft revolutions • Moisture Resistance: Yes • Vibration: 15g 10 to 2000HZ • Shock: 50g • Salt Spray: 96 hours • Load Life: 900 hours

Material Specifications: • Housing/Bushing: Aluminum, anodized • Rear Lid: Ceramic • Shaft: Stainless Steel • Terminals: Solderable • Bushing Mount Hardware: Lockwasher, Internal Tooth Steel, Nickel plated • Panel Nut: Brass, Nickel plated • *Mounting Hardware included*

Dimensions in mm

Fig. 1

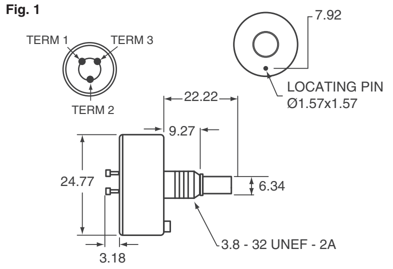

Fig. 2

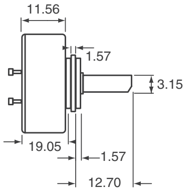

Fig.	Res. Ω	Digi-Key Part No.	Price Each 1	5	10	Vishay Part No.
		Bushing Mount				
1	1.0K	SP157P-1.0K-ND	21.42	13.79	11.75	157-11102
	2.0K	SP157P-2.0K-ND	21.42	13.79	11.75	157-11202
	5.0K	SP157P-5.0K-ND	21.42	13.79	11.75	157-11502
	10K	SP157P-10K-ND	21.42	13.79	11.75	157-11103
	20K	SP157P-20K-ND	21.42	13.79	11.75	157-11203
	50K	SP157P-50K-ND	21.42	13.79	11.75	157-11503
	100K	SP157P-100K-ND	21.42	13.79	11.75	157-11104
		Servo Mount				
2	1.0K	SP157S-1.0K-ND	44.60	28.75	25.30	157-21102
	2.0K	SP157S-2.0K-ND	44.60	28.75	25.30	157-21202
	5.0K	SP157S-5.0K-ND	44.60	28.75	25.30	157-21502
	10K	SP157S-10K-ND	44.60	28.75	25.30	157-21103

Wirewound Precision Potentiometers

533, 534, 535 Series, 7/8" Multi-turn

Electrical Specifications			
Parameter	Series 533	Series 534	Series 535
Standard Tool	±5%	±5%	±5%
Linearity (Independent)	±0.25%	±0.20%	±0.25%
Noise	100Ω ENR	100Ω ENR	100Ω ENR
Rotation (Electrical and Mechanical)	1080° + 10%	3600° + 10%	1800° ± 10°
Power Rating	1.0W	2.0W	1.5W
Insulation Resistance	1000MΩ minimum 500VDC		
Dielelectric Strength	1000VRMS minimum 60HZ		
Absolute Minimum Resistance	Not to exceed linearity x total resistance or 1Ω, whichever is greater.		

Dimensions in mm

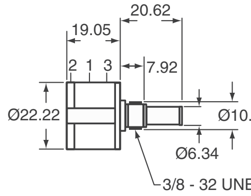

Res. Ω	Digi-Key Part No.	Price Each 1	5	10	Vishay Part No.
	533 Series — 3 Turn				
100	SP533-100-ND	16.20	14.73	13.89	533-11101
200	SP533-200-ND	16.20	14.73	13.89	533-11201
500	SP533-500-ND	16.20	14.73	13.89	533-11501
1.0K	SP533-1.0K-ND	16.20	14.73	13.89	533-11102
2.0K	SP533-2.0K-ND	16.20	14.73	13.89	533-11202
5.0K	SP533-5.0K-ND	16.20	14.73	13.89	533-11502
10K	SP533-10K-ND	16.20	14.73	13.89	533-11103
20K	SP533-20K-ND	24.47	22.25	20.97	533-11203
	534 Series — 10 Turn				
100	SP534-100-ND	13.48	13.29	10.73	534-11101
200	SP534-200-ND	13.48	13.29	10.73	534-11201
500	SP534-500-ND	13.48	13.29	10.73	534-11501
1.0K	SP534-1.0K-ND	13.48	13.29	10.73	534-11102
2.0K	SP534-2.0K-ND	13.48	13.29	10.73	534-11202
5.0K	SP534-5.0K-ND	13.48	13.29	10.73	534-11502
10K	SP534-10K-ND	13.48	13.29	10.73	534-11103
20K	SP534-20K-ND	13.48	13.29	10.73	534-11203
50K	SP534-50K-ND	17.08	15.73	14.58	534-11503
100K	SP534-100K-ND	13.48	13.29	10.73	534-11104
	535 Series — 5 Turn				
100	SP535-100-ND	15.54	14.60	13.76	535-11101
200	SP535-200-ND	15.54	14.60	13.76	535-11201
500	SP535-500-ND	15.54	14.60	13.76	535-11501
1.0K	SP535-1.0K-ND	15.54	14.60	13.76	535-11102
2.0K	SP535-2.0K-ND	15.54	14.60	13.76	535-11202
5.0K	SP535-5.0K-ND	15.54	14.60	13.76	535-11502
10K	SP535-10K-ND	15.54	14.60	13.76	535-11103
20K	SP535-20K-ND	15.54	14.60	13.76	535-11203
50K	SP535-50K-ND	19.70	18.55	17.87	535-11503

1W Industrial Rotary Position Sensor

657 Series

Electrical Specifications: • Resistance Tolerance: ±20% • Linearity: ±2% • Power Rating: 1.0W at 85°C • Electrical Travel: 240° ±4° • Dielectric Withstanding: 500V_{RMS} at 60HZ minimum • Output Smoothness: 0.2% maximum.

Features: • Fully Sealed to IP67 • Reliable conductive Plastic Technology • Stainless Steel Shaft

Dimensions in mm

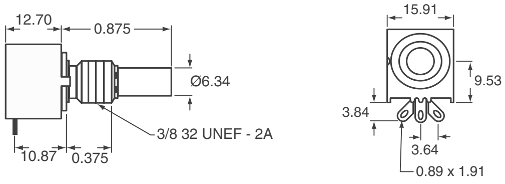

Res. Ω	Digi-Key Part No.	Price Each 1	5	10	25	Vishay Part No.
1.0K	SP657-1.0K-ND	16.34	12.83	9.62	8.91	657-0-0-102
2.0K	SP657-2.0K-ND	16.34	12.83	9.62	8.91	657-0-0-202
5.0K	SP657-5.0K-ND	16.34	12.83	9.62	8.91	657-0-0-502
10K	SP657-10K-ND	16.34	12.83	9.62	8.91	657-0-0-103
20K	SP657-20K-ND	16.34	12.83	9.62	8.91	657-0-0-203
50K	SP657-50K-ND	16.34	12.83	9.62	8.91	657-0-0-503

Concentric Scale Dials

11, 15, 18, 21, 21P and 28 Series

Fig. 1 — Series 11

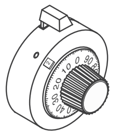

Fig. 2 — Series 15

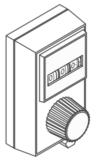

Fig. 3 — Series 18

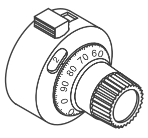

Fig. 4 — Series 21

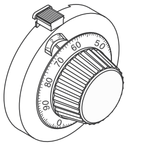

Fig. 5 — Series 21P

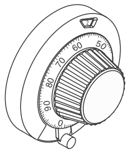

Fig. 6 — Series 28

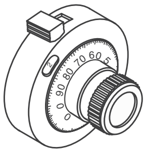

Features:

11 Series: • Round Vernier Scale • 1" Diameter • Satin Chrome, black markings

15 Series: • 3 digit • Satin Clear Anodize • Rectangular Digital Scale • 1" Wide

18 Series: • No Backlash • Compact requires minimal panel space (22, 2mm diameter requirement) • For use with precision potentiometers or other rotating devices • Designed for metal shaft, 1 set screw • High force "Click Brake" • Satin Chrome, black markings

21 Series: • Satin Chrome, black markings • Round Vernier Scale • 1-13/16" Diameter

21P Series: • Round Vernier Scale • 1-13/16" Diameter (46.0mm) • Material: Plastic ABS Mold

28 Series: • Laser Machined Markings • Accepts 1/4" Shaft • 1 Set Screw • Clear Satin Anodized housing, black rotor, white markings

Fig.	Turns	Shaft Diameter	Body Diameter	Digi-Key Part No.	Price Each 1	5	10	Vishay Part No.
1	10	1/4"	25.4mm	SP011-1-11-ND	18.25	17.45	16.77	011-1-11
2	10	1/4"	—	SP015-1-11-ND	18.56	17.85	17.19	015-1-11
3	15	1/4"	22.2mm	SP018-1-11-ND	9.68	9.31	8.96	018-1-11
4	15	1/4"	46.02mm	SP021-1-11-ND	19.00	18.20	17.51	021-1-11
5	11	1/4"	46mm	SP021P-1-11-ND	13.80	13.25	12.75	021P-1-11
6	21	—	28mm	SP028-1-11-ND	17.85	17.18	16.51	028-1-11

muRata
Innovator in Electronics

SMD Open Type Trimmer Potentiometers 2mm - PVA2 Series

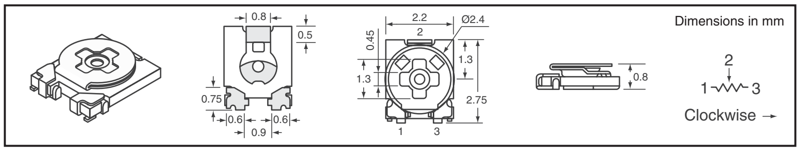

Power Rating @ 70°C (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value (Ω ±25%)	TCR (ppm/°C)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Murata Part No.
0.1	Reflow/Soldering Iron	1 (260°±10°)	100	±250	490-3915-1-ND	.22	1.85	16.13	490-3915-2-ND	110.00/M	PVA2A101A01R00
			150	±250	490-3916-1-ND	.22	1.85	16.13	490-3916-2-ND	110.00/M	PVA2A151A01R00
			220	±250	490-3917-1-ND	.22	1.85	16.13	490-3917-2-ND	110.00/M	PVA2A221A01R00
			330	±250	490-3918-1-ND	.22	1.85	16.13	490-3918-2-ND	110.00/M	PVA2A331A01R00
			470	±250	490-3919-1-ND	.22	1.85	16.13	490-3919-2-ND	110.00/M	PVA2A471A01R00
0.1	Reflow/Soldering Iron	1 (260°±10°)	680	±250	490-3920-1-ND	.22	1.85	16.13	490-3920-2-ND	110.00/M	PVA2A681A01R00
			1K	±250	490-3921-1-ND	.22	1.85	16.13	490-3921-2-ND	110.00/M	PVA2A102A01R00
			1.5K	±250	490-3922-1-ND	.20	1.65	14.40	490-3922-2-ND	98.00/M	PVA2A152A01R00
			2.2K	±250	490-3923-1-ND	.22	1.85	16.13	490-3923-2-ND	110.00/M	PVA2A222A01R00
			3.3K	±250	490-3924-1-ND	.22	1.85	16.13	490-3924-2-ND	110.00/M	PVA2A332A01R00
0.1	Reflow/Soldering Iron	1 (260°±10°)	4.7K	±250	490-3925-1-ND	.22	1.85	16.13	490-3925-2-ND	110.00/M	PVA2A472A01R00
			6.8K	±250	490-3926-1-ND	.22	1.85	16.13	490-3926-2-ND	110.00/M	PVA2A682A01R00
			10K	±250	490-3927-1-ND	.22	1.85	16.13	490-3927-2-ND	110.00/M	PVA2A103A01R00
			15K	±250	490-3928-1-ND	.22	1.85	16.13	490-3928-2-ND	110.00/M	PVA2A153A01R00
			22K	±250	490-3929-1-ND	.22	1.85	16.13	490-3929-2-ND	110.00/M	PVA2A223A01R00
0.1	Reflow/Soldering Iron	1 (260°±10°)	33K	±250	490-3930-1-ND	.22	1.85	16.13	490-3930-2-ND	110.00/M	PVA2A333A01R00
			47K	±250	490-3931-1-ND	.22	1.85	16.13	490-3931-2-ND	110.00/M	PVA2A473A01R00
			68K	±250	490-3932-1-ND	.22	1.85	16.13	490-3932-2-ND	110.00/M	PVA2A683A01R00
			100K	±250	490-3933-1-ND	.22	1.85	16.13	490-3933-2-ND	110.00/M	PVA2A104A01R00
			150K	±250	490-3934-1-ND	.22	1.85	16.13	490-3934-2-ND	110.00/M	PVA2A154A01R00
0.1	Reflow/Soldering Iron	1 (260°±10°)	220K	±250	490-3935-1-ND	.22	1.85	16.13	490-3935-2-ND	110.00/M	PVA2A224A01R00
			330K	±250	490-3936-1-ND	.22	1.85	16.13	490-3936-2-ND	110.00/M	PVA2A334A01R00
			470K	±250	490-3937-1-ND	.22	1.85	16.13	490-3937-2-ND	110.00/M	PVA2A474A01R00
			680K	±250	490-3938-1-ND	.22	1.85	16.13	490-3938-2-ND	110.00/M	PVA2A684A01R00
			1M	±250	490-3939-1-ND	.22	1.85	16.13	490-3939-2-ND	110.00/M	PVA2A105A01R00
0.1	Reflow/Soldering Iron	1 (260°±10°)	1.5M	±250	490-3940-1-ND	.22	1.85	16.13	490-3940-2-ND	110.00/M	PVA2A155A01R00
			2.2M	±250	490-3941-1-ND	.22	1.85	16.13	490-3941-2-ND	110.00/M	PVA2A225A01R00

SMD Sealed Type Trimmer Potentiometers 3mm - PVG3 Series

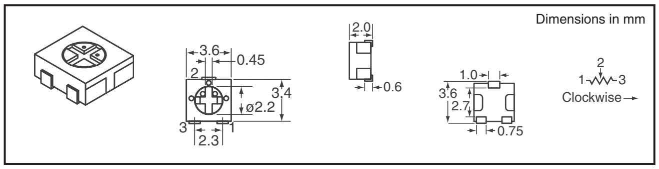

Features:

• Sealed construction protects the interior from dust and liquid, which achieves stable performance • Driver plate with cross-slot is suitable for automatic adjustment • Rotor with large diameter and deep groove improves driver insertion • Heat resistance performance enables high temperature peak re-flow soldering

Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,000	Murata Part No.
0.25 (70°C)	Reflow	1 (210° ±10)	10Ω ±20%	±150	490-2641-1-ND	.80	.68	.60	490-2641-2-ND	401.00	PVG3A100C01R00
			20Ω ±20%	±150	490-2647-1-ND	.80	.68	.60	490-2647-2-ND	401.00	PVG3A200C01R00
			50Ω ±20%	±150	490-2653-1-ND	.80	.68	.60	490-2653-2-ND	401.00	PVG3A500C01R00
			100Ω ±20%	±150	490-2642-1-ND	.80	.68	.60	490-2642-2-ND	401.00	PVG3A101C01R00
			200Ω ±20%	±150	490-2648-1-ND	.80	.68	.60	490-2648-2-ND	401.00	PVG3A201C01R00
0.25 (70°C)	Reflow	1 (210° ±10)	500Ω ±20%	±150	490-2654-1-ND	.80	.68	.60	490-2654-2-ND	401.00	PVG3A501C01R00
			1KΩ ±20%	±150	490-2643-1-ND	.80	.68	.60	490-2643-2-ND	401.00	PVG3A102C01R00
			2KΩ ±20%	±150	490-2649-1-ND	.80	.68	.60	490-2649-2-ND	401.00	PVG3A202C01R00
			5KΩ ±20%	±150	490-2655-1-ND	.80	.68	.60	490-2655-2-ND	401.00	PVG3A502C01R00
			10KΩ ±20%	±150	490-2644-1-ND	.80	.68	.60	490-2644-2-ND	401.00	PVG3A103C01R00
0.25 (70°C)	Reflow	1 (210° ±10)	20KΩ ±20%	±150	490-2650-1-ND	.80	.68	.60	490-2650-2-ND	401.00	PVG3A203C01R00
			50KΩ ±20%	±150	490-2656-1-ND	.80	.68	.60	490-2656-2-ND	401.00	PVG3A503C01R00
			100KΩ ±20%	±150	490-2645-1-ND	.80	.68	.60	490-2645-2-ND	401.00	PVG3A104C01R00
			200KΩ ±20%	±150	490-2651-1-ND	.80	.68	.60	490-2651-2-ND	401.00	PVG3A204C01R00
			500KΩ ±20%	±150	490-2657-1-ND	.80	.68	.60	490-2657-2-ND	401.00	PVG3A504C01B00
0.25 (70°C)	Reflow	1 (210° ±10)	1MΩ ±20%	±150	490-2646-1-ND	.80	.68	.60	490-2646-2-ND	401.00	PVG3A105C01R00
			2MΩ ±20%	±150	490-2652-1-ND	.80	.68	.60	490-2652-2-ND	401.00	PVG3A205C01R00

SMD Sealed Type Trimmer Potentiometers Multi-Turn - PVG5 Series

Features:
• High resolution resulting from 11-turns design enables precise adjustment • Compatible with VPS reflow soldering method • Compatible with ultrasonic cleaning • Clutch mechanism prevents excessive wiper rotation

Dimensions in mm

Fig. 1

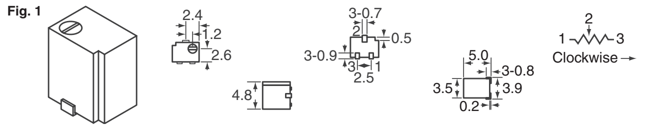

Fig. 2

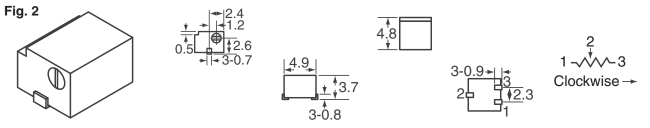

Fig.	Power Rating (W)	Sold-ering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Murata Part No.
1	0.25 (70°C)	Reflow	11	10Ω ±10%	±150	490-2658-1-ND	2.45	2.11	1.83	490-2658-2-ND	250	315.25	PVG5A100C01R00
				20Ω ±10%	±150	490-2664-1-ND	2.45	2.11	1.83	490-2664-2-ND	250	315.25	PVG5A200C01R00
				50Ω ±10%	±150	490-2670-1-ND	2.10	1.80	1.56	490-2670-2-ND	250	269.50	PVG5A500C01R00
				100Ω ±10%	±150	490-2659-1-ND	2.45	2.11	1.83	490-2659-2-ND	250	315.25	PVG5A101C01R00
				200Ω ±10%	±150	490-2665-1-ND	2.45	2.11	1.83	490-2665-2-ND	250	315.25	PVG5A201C01R00
	0.25 (70°C)	Reflow	11	500Ω ±10%	±150	490-2671-1-ND	2.45	2.11	1.83	490-2671-2-ND	250	315.25	PVG5A501C01R00
				1KΩ ±10%	±150	490-2660-1-ND	2.45	2.11	1.83	490-2660-2-ND	250	315.25	PVG5A102C01R00
				2KΩ ±10%	±150	490-2666-1-ND	2.45	2.11	1.83	490-2666-2-ND	250	315.25	PVG5A202C01R00
				5KΩ ±10%	±150	490-2672-1-ND	2.45	2.11	1.83	490-2672-2-ND	250	315.25	PVG5A502C01R00
				10KΩ ±10%	±150	490-2661-1-ND	2.45	2.11	1.83	490-2661-2-ND	250	315.25	PVG5A103C01R00
	0.25 (70°C)	Reflow	11	20KΩ ±10%	±150	490-2667-1-ND	2.45	2.11	1.83	490-2667-2-ND	250	315.25	PVG5A203C01R00
				50KΩ ±10%	±150	490-2673-1-ND	2.45	2.11	1.83	490-2673-2-ND	250	315.25	PVG5A503C01R00
				100KΩ ±10%	±150	490-2662-1-ND	2.45	2.11	1.83	490-2662-2-ND	250	315.25	PVG5A104C01R00
				200KΩ ±10%	±150	490-2668-1-ND	2.45	2.11	1.83	490-2668-2-ND	250	315.25	PVG5A204C01R00

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SMD Sealed Type Trimmer Potentiometers Multi-Turn - PVG5 Series *(Cont.)*

Fig.	Power Rating (W)	Sold-ering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
1	0.25 (70°C)	Reflow	11	500KΩ ±10%	±150	490-2674-1-ND	2.45	2.11	1.83	490-2674-2-ND	250	315.25	PVG5A504C01R00
				1MΩ ±10%	±150	490-2663-1-ND	2.45	2.11	1.83	490-2663-2-ND	250	315.25	PVG5A105C01R00
2	0.25 (70°C)	Reflow	11	10Ω ±10%	±150	490-2675-1-ND	2.42	2.08	1.80	—	—	—	PVG5H100C01R00
				50Ω ±10%	±150	490-2687-1-ND	2.19	1.88	1.63	—	—	—	PVG5H500C01R00
				100Ω ±10%	±150	490-2676-1-ND	2.45	2.11	1.83	490-2676-2-ND	500	630.50	PVG5H101C01R00
				200Ω ±10%	±150	490-2682-1-ND	2.45	2.11	1.83	490-2682-2-ND	500	630.50	PVG5H201C01R00
				500Ω ±10%	±150	490-2688-1-ND	2.45	2.11	1.83	490-2688-2-ND	500	630.50	PVG5H501C01R00
	0.25 (70°C)	Reflow	11	1KΩ ±10%	±150	490-2677-1-ND	2.45	2.11	1.83	490-2677-2-ND	500	630.50	PVG5H102C01R00
				2KΩ ±10%	±150	490-2683-1-ND	2.45	2.11	1.83	490-2683-2-ND	500	630.50	PVG5H202C01R00
				5KΩ ±10%	±150	490-2689-1-ND	2.45	2.11	1.83	490-2689-2-ND	500	630.50	PVG5H502C01R00
				10KΩ ±10%	±150	490-2678-1-ND	2.45	2.11	1.83	490-2678-2-ND	500	630.50	PVG5H103C01R00
				20KΩ ±10%	±150	490-2684-1-ND	2.45	2.11	1.83	490-2684-2-ND	500	630.50	PVG5H203C01R00
	0.25 (70°C)	Reflow	11	50KΩ ±10%	±150	490-2690-1-ND	2.45	2.11	1.83	490-2690-2-ND	500	630.50	PVG5H503C01R00
				500KΩ ±10%	±150	490-2691-1-ND	2.45	2.11	1.83	490-2691-2-ND	500	630.50	PVG5H504C01R00
				1MΩ ±10%	±150	490-2680-1-ND	2.45	2.11	1.83	490-2680-2-ND	500	630.50	PVG5H105C01R00
				2MΩ ±10%	±150	490-2686-1-ND	2.42	2.08	1.80	—	—	—	PVG5H205C01R00

Sealed Single-Turn Trimmer Potentiometers - PVC6 Series

Features: • Enlarged rotor provides superior adjustability • 11-scales are easy to see adjustment position • Colored rotor provides superior adjustability • Funnel shaped rotor allows for in-process automatic adjustment and it provides superior adjustability

Specifications: • Power Rating: 0.5 (70°C) • Soldering Method: Flow/Soldering Iron • Number of Turns: 1 (240° ± 5°)

Dimensions in mm

Fig. 1

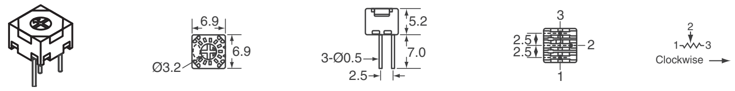

Fig. 2

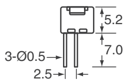

Fig. 3

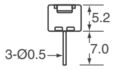

Fig. 4

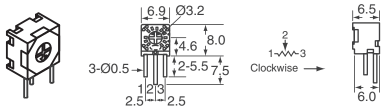

Fig. 5

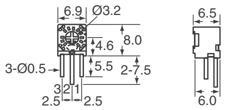

Fig. 6

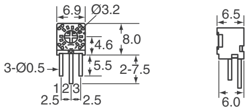

Fig. 7

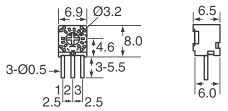

Top Adjust

Ohms	Fig. 1 Digi-Key Part No.	Fig. 1 Murata Part No.	Fig. 2 Digi-Key Part No.	Fig. 2 Murata Part No.	Fig. 3 Digi-Key Part No.	Fig. 3 Murata Part No.	Price Each 1	10	100
20	—	—	490-2721-ND	PVC6D200C01B00	490-2813-ND	PVC6M200C01B00	1.05	.79	.71
25	490-2704-ND	PVC6A250C01B00	490-2727-ND	PVC6D250C01B00	490-2819-ND	PVC6M250C01B00	1.05	.79	.71
50	—	—	490-2732-ND	PVC6D500C01B00	—	—	1.05	.79	.71
100	—	—	—	—	490-2808-ND	PVC6M101C01B00	1.05	.79	.71
200	—	—	—	—	490-2814-ND	PVC6M201C01B00	1.05	.79	.71
250	490-2705-ND	PVC6A251C01B00	490-2728-ND	PVC6D251C01B00	490-2820-ND	PVC6M251C01B00	1.05	.79	.71
1K	—	—	—	—	490-2809-ND	PVC6M102C01B00	1.05	.79	.71
2K	—	—	—	—	490-2815-ND	PVC6M202C01B00	1.05	.79	.71
2.5K	—	—	—	—	490-2821-ND	PVC6M252C01B00	1.05	.79	.71
20K	—	—	—	—	490-2816-ND	PVC6M203C01B00	1.05	.79	.71
200K	—	—	—	—	490-2817-ND	PVC6M204C01B00	1.05	.79	.71
250K	—	—	—	—	490-2823-ND	PVC6M254C01B00	1.05	.79	.71
500K	—	—	490-2736-ND	PVC6D504C01B00	490-2828-ND	PVC6M504C01B00	1.05	.79	.71
1M	—	—	490-2720-ND	PVC6D105C01B00	490-2812-ND	PVC6M105C01B00	1.05	.79	.71
2M	—	—	490-2726-ND	PVC6D205C01B00	490-2818-ND	PVC6M205C01B00	1.05	.79	.71
5M	—	—	490-2737-ND	PVC6D505C01B00	490-2829-ND	PVC6M505C01B00	1.05	.79	.71

Side Adjust

Ohms	Fig. 4 Digi-Key Part No.	Fig. 4 Murata Part No.	Fig. 5 Digi-Key Part No.	Fig. 5 Murata Part No.	Fig. 6 Digi-Key Part No.	Fig. 6 Murata Part No.	Fig. 7 Digi-Key Part No.	Fig. 7 Murata Part No.	Price Each 1	10	100
10	490-2738-ND	PVC6E100C01B00	490-2761-ND	PVC6G100C01B00	490-2784-ND	PVC6H100C01B00	490-2830-ND	PVC6Q100C01B00	1.05	.79	.71
20	490-2744-ND	PVC6E200C01B00	490-2767-ND	PVC6G200C01B00	490-2790-ND	PVC6H200C01B00	490-2836-ND	PVC6Q200C01B00	1.05	.79	.71
25	490-2750-ND	PVC6E250C01B00	490-2773-ND	PVC6G250C01B00	490-2796-ND	PVC6H250C01B00	490-2842-ND	PVC6Q250C01B00	1.05	.79	.71
50	490-2755-ND	PVC6E500C01B00	490-2778-ND	PVC6G500C01B00	490-2801-ND	PVC6H500C01B00	490-2847-ND	PVC6Q500C01B00	1.05	.79	.71
100	490-2739-ND	PVC6E101C01B00	490-2762-ND	PVC6G101C01B00	490-2785-ND	PVC6H101C01B00	490-2831-ND	PVC6Q101C01B00	1.05	.79	.71
200	490-2745-ND	PVC6E201C01B00	490-2768-ND	PVC6G201C01B00	490-2791-ND	PVC6H201C01B00	490-2837-ND	PVC6Q201C01B00	1.05	.79	.71
250	490-2751-ND	PVC6E251C01B00	—	—	490-2797-ND	PVC6H251C01B00	490-2843-ND	PVC6Q251C01B00	1.05	.79	.71
500	490-2756-ND	PVC6E501C01B00	490-2779-ND	PVC6G501C01B00	490-2802-ND	PVC6H501C01B00	490-2848-ND	PVC6Q501C01B00	1.05	.79	.71
1K	490-2740-ND	PVC6E102C01B00	—	—	—	—	490-2832-ND	PVC6Q102C01B00	1.05	.79	.71
2K	490-2746-ND	PVC6E202C01B00	490-2769-ND	PVC6G202C01B00	490-2792-ND	PVC6H202C01B00	490-2838-ND	PVC6Q202C01B00	1.05	.79	.71
2.5K	490-2752-ND	PVC6E252C01B00	490-2775-ND	PVC6G252C01B00	490-2798-ND	PVC6H252C01B00	490-2844-ND	PVC6Q252C01B00	1.05	.79	.71
5K	490-2757-ND	PVC6E502C01B00	—	—	490-2803-ND	PVC6H502C01B00	490-2849-ND	PVC6Q502C01B00	1.05	.79	.71
20K	490-2747-ND	PVC6E203C01B00	490-2770-ND	PVC6G203C01B00	490-2793-ND	PVC6H203C01B00	490-2839-ND	PVC6Q203C01B00	1.05	.79	.71
25K	—	—	—	—	—	—	490-2845-ND	PVC6Q253C01B00	1.05	.79	.71
50K	490-2758-ND	PVC6E503C01B00	490-2781-ND	PVC6G503C01B00	490-2804-ND	PVC6H503C01B00	—	—	1.05	.79	.71
100K	—	—	490-2765-ND	PVC6G104C01B00	490-2788-ND	PVC6H104C01B00	490-2834-ND	PVC6Q104C01B00	1.05	.79	.71
200K	490-2748-ND	PVC6E204C01B00	490-2771-ND	PVC6G204C01B00	490-2794-ND	PVC6H204C01B00	490-2840-ND	PVC6Q204C01B00	1.05	.79	.71
250K	490-2754-ND	PVC6E254C01B00	490-2777-ND	PVC6G254C01B00	490-2800-ND	PVC6H254C01B00	490-2846-ND	PVC6Q254C01B00	1.05	.79	.71
500K	490-2759-ND	PVC6E504C01B00	490-2782-ND	PVC6G504C01B00	490-2805-ND	PVC6H504C01B00	490-2851-ND	PVC6Q504C01B00	1.05	.79	.71
1M	490-2743-ND	PVC6E105C01B00	490-2766-ND	PVC6G105C01B00	490-2789-ND	PVC6H105C01B00	490-2835-ND	PVC6Q105C01B00	1.05	.79	.71
2M	490-2749-ND	PVC6E205C01B00	490-2772-ND	PVC6G205C01B00	490-2795-ND	PVC6H205C01B00	—	—	1.05	.79	.71
5M	490-2760-ND	PVC6E505C01B00	490-2783-ND	PVC6G505C01B00	490-2806-ND	PVC6H505C01B00	490-2852-ND	PVC6Q505C01B00	1.05	.79	.71

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Sealed Multi-Turn Trimmer Potentiometers

PV36 Series

Features: • 25-turns, cermet, square, 9.5mm package • Compatible with ultrasonic cleaning • Clutch mechanism prevents excessive wiper rotation

Specifications: • Power Rating: 0.5W (70°C) • Soldering Method: Flow/Soldering Iron • Number of Turns: 25

Dim. in mm

Fig. 1

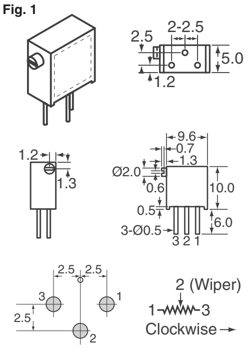

Fig. 2

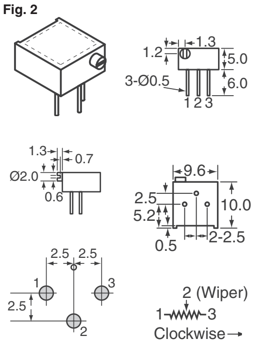

Fig. 3

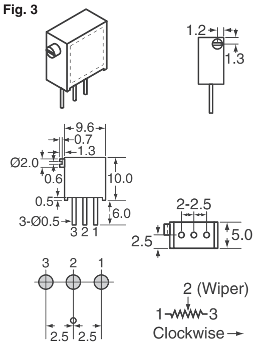

Fig. 4

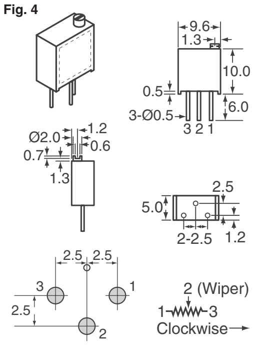

Fig. 5

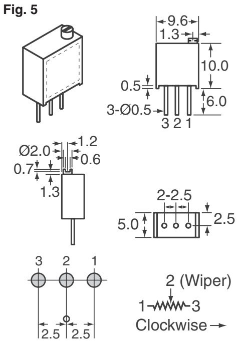

	Side Adjust						Top Adjust						
	Fig. 1		Fig. 2		Fig. 3		Fig. 4		Fig. 5				
Ohms	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Price Each 1	10	100
10	490-2929-ND	PV36Z100C01B00	490-2853-ND	PV36P100C01B00	490-2891-ND	PV36X100C01B00	490-2910-ND	PV36Y100C01B00	490-2872-ND	PV36W100C01B00	.86	.79	.55
20	490-2935-ND	PV36Z200C01B00	490-2859-ND	PV36P200C01B00	490-2897-ND	PV36X200C01B00	490-2916-ND	PV36Y200C01B00	490-2878-ND	PV36W200C01B00	.86	.79	.55
50	490-2943-ND	PV36Z500C01B00	490-2867-ND	PV36P500C01B00	490-2905-ND	PV36X500C01B00	490-2924-ND	PV36Y500C01B00	490-2886-ND	PV36W500C01B00	.86	.79	.55
100	490-2930-ND	PV36Z101C01B00	490-2854-ND	PV36P101C01B00	490-2892-ND	PV36X101C01B00	490-2911-ND	PV36Y101C01B00	490-2873-ND	PV36W101C01B00	.86	.79	.55
200	490-2936-ND	PV36Z201C01B00	490-2860-ND	PV36P201C01B00	490-2898-ND	PV36X201C01B00	490-2917-ND	PV36Y201C01B00	490-2879-ND	PV36W201C01B00	.86	.79	.55
500	490-2944-ND	PV36Z501C01B00	490-2868-ND	PV36P501C01B00	490-2906-ND	PV36X501C01B00	490-2925-ND	PV36Y501C01B00	490-2887-ND	PV36W501C01B00	.86	.79	.55
1K	490-2931-ND	PV36Z102C01B00	490-2855-ND	PV36P102C01B00	490-2893-ND	PV36X102C01B00	490-2912-ND	PV36Y102C01B00	490-2874-ND	PV36W102C01B00	.86	.79	.55
2K	490-2937-ND	PV36Z202C01B00	490-2861-ND	PV36P202C01B00	490-2899-ND	PV36X202C01B00	490-2918-ND	PV36Y202C01B00	490-2880-ND	PV36W202C01B00	.86	.79	.55
5K	490-2945-ND	PV36Z502C01B00	490-2869-ND	PV36P502C01B00	490-2907-ND	PV36X502C01B00	490-2926-ND	PV36Y502C01B00	490-2888-ND	PV36W502C01B00	.86	.79	.55
10K	490-2932-ND	PV36Z103C01B00	490-2856-ND	PV36P103C01B00	490-2894-ND	PV36X103C01B00	490-2913-ND	PV36Y103C01B00	490-2875-ND	PV36W103C01B00	.86	.79	.55
20K	490-2938-ND	PV36Z203C01B00	490-2862-ND	PV36P203C01B00	490-2900-ND	PV36X203C01B00	490-2919-ND	PV36Y203C01B00	490-2881-ND	PV36W203C01B00	.86	.79	.55
25K	490-2941-ND	PV36Z253C01B00	490-2865-ND	PV36P253C01B00	490-2903-ND	PV36X253C01B00	490-2922-ND	PV36Y253C01B00	490-2884-ND	PV36W253C01B00	.86	.79	.55
50K	490-2946-ND	PV36Z503C01B00	490-2870-ND	PV36P503C01B00	490-2908-ND	PV36X503C01B00	490-2927-ND	PV36Y503C01B00	490-2889-ND	PV36W503C01B00	.86	.79	.55
100K	490-2933-ND	PV36Z104C01B00	490-2857-ND	PV36P104C01B00	490-2895-ND	PV36X104C01B00	490-2914-ND	PV36Y104C01B00	490-2876-ND	PV36W104C01B00	.86	.79	.55
200K	490-2939-ND	PV36Z204C01B00	490-2863-ND	PV36P204C01B00	490-2901-ND	PV36X204C01B00	490-2920-ND	PV36Y204C01B00	490-2882-ND	PV36W204C01B00	.86	.79	.55
250K	—	—	490-2866-ND	PV36P254C01B00	490-2904-ND	PV36X254C01B00	490-2923-ND	PV36Y254C01B00	490-2885-ND	PV36W254C01B00	.86	.79	.55
500K	490-2947-ND	PV36Z504C01B00	490-2871-ND	PV36P504C01B00	490-2909-ND	PV36X504C01B00	490-2928-ND	PV36Y504C01B00	490-2890-ND	PV36W504C01B00	.86	.79	.55
1M	—	—	490-2858-ND	PV36P105C01B00	490-2896-ND	PV36X105C01B00	490-2915-ND	PV36Y105C01B00	490-2877-ND	PV36W105C01B00	.86	.79	.55
2M	490-2940-ND	PV36Z205C01B00	490-2864-ND	PV36P205C01B00	490-2902-ND	PV36X205C01B00	490-2921-ND	PV36Y205C01B00	490-2883-ND	PV36W205C01B00	.86	.79	.55

PV37 Series

Features: • High Resolution, 12-turns cermet • Small size • Compatible with ultrasonic cleaning • Clutch mechanism prevents excessive wiper rotation

Specifications: • Power Rating: 0.25 (85°C) • Soldering Method: Flow/Soldering Iron • Number of Turns: 12

Dim. in mm

Fig. 1

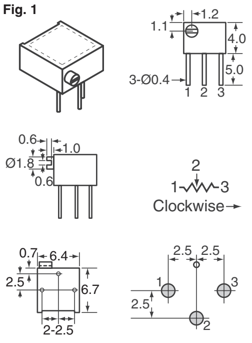

Fig. 2

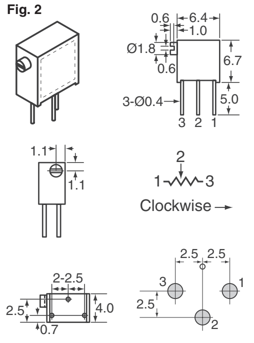

Fig. 3

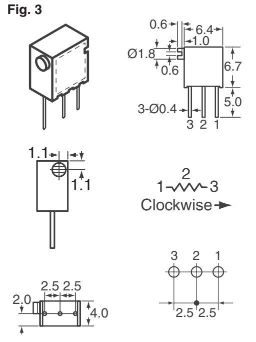

Fig. 4

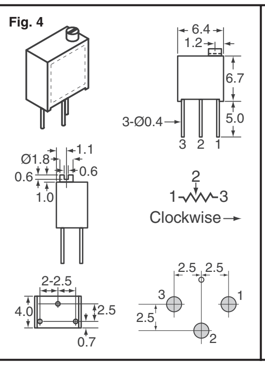

Fig. 5

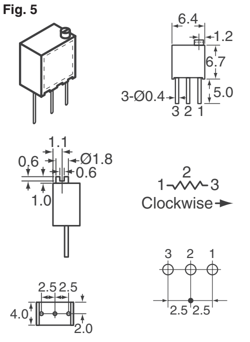

	Side Adjust						Top Adjust						
	Fig. 1		Fig. 2		Fig. 3		Fig. 4		Fig. 5				
Ohms	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Price Each 1	10	100
10	490-2948-ND	PV37P100C01B00	490-2986-ND	PV37X100C01B00	—	—	490-2967-ND	PV37W100C01B00	490-3005-ND	PV37Y100C01B00	1.31	1.19	.84
20	—	—	490-2992-ND	PV37X200C01B00	490-3030-ND	PV37Z200C01B00	490-2973-ND	PV37W200C01B00	490-3011-ND	PV37Y200C01B00	1.61	1.46	1.03
50	—	—	490-3000-ND	PV37X500C01B00	490-3038-ND	PV37Z500C01B00	490-2981-ND	PV37W500C01B00	490-3019-ND	PV37Y500C01B00	1.31	1.19	.84
100	490-2949-ND	PV37P101C01B00	490-2987-ND	PV37X101C01B00	—	—	490-2968-ND	PV37W101C01B00	490-3006-ND	PV37Y101C01B00	1.31	1.19	.84
200	490-2955-ND	PV37P201C01B00	490-2993-ND	PV37X201C01B00	490-3031-ND	PV37Z201C01B00	490-2974-ND	PV37W201C01B00	490-3012-ND	PV37Y201C01B00	1.31	1.19	.84
500	—	—	490-3001-ND	PV37X501C01B00	490-3039-ND	PV37Z501C01B00	490-2982-ND	PV37W501C01B00	490-3020-ND	PV37Y501C01B00	1.30	1.18	.83
1K	490-2950-ND	PV37P102C01B00	490-2988-ND	PV37X102C01B00	490-3026-ND	PV37Z102C01B00	490-2969-ND	PV37W102C01B00	490-3007-ND	PV37Y102C01B00	1.31	1.19	.84
2K	490-2956-ND	PV37P202C01B00	490-2994-ND	PV37X202C01B00	490-3032-ND	PV37Z202C01B00	490-2975-ND	PV37W202C01B00	490-3013-ND	PV37Y202C01B00	1.31	1.19	.84
5K	490-2964-ND	PV37P502C01B00	490-3002-ND	PV37X502C01B00	490-3040-ND	PV37Z502C01B00	490-2983-ND	PV37W502C01B00	490-3021-ND	PV37Y502C01B00	1.31	1.19	.84
10K	490-2951-ND	PV37P103C01B00	490-2989-ND	PV37X103C01B00	490-3027-ND	PV37Z103C01B00	490-2970-ND	PV37W103C01B00	490-3008-ND	PV37Y103C01B00	1.31	1.19	.84
20K	490-2957-ND	PV37P203C01B00	490-2995-ND	PV37X203C01B00	490-3033-ND	PV37Z203C01B00	490-2976-ND	PV37W203C01B00	490-3014-ND	PV37Y203C01B00	1.31	1.19	.84
25K	490-2960-ND	PV37P253C01B00	490-2998-ND	PV37X253C01B00	490-3036-ND	PV37Z253C01B00	490-2979-ND	PV37W253C01B00	490-3017-ND	PV37Y253C01B00	1.30	1.19	.83
50K	490-2965-ND	PV37P503C01B00	490-3003-ND	PV37X503C01B00	490-3041-ND	PV37Z503C01B00	490-2984-ND	PV37W503C01B00	490-3022-ND	PV37Y503C01B00	1.31	1.19	.84
100K	490-2952-ND	PV37P104C01B00	490-2990-ND	PV37X104C01B00	490-3028-ND	PV37Z104C01B00	490-2971-ND	PV37W104C01B00	490-3009-ND	PV37Y104C01B00	1.31	1.19	.84
200K	—	—	—	—	490-3034-ND	PV37Z204C01B00	490-2977-ND	PV37W204C01B00	—	—	1.30	1.18	.83
250K	490-2961-ND	PV37P254C01B00	490-2999-ND	PV37X254C01B00	490-3037-ND	PV37Z254C01B00	—	—	490-3018-ND	PV37Y254C01B00	1.61	1.46	1.03
500K	490-2966-ND	PV37P504C01B00	490-3004-ND	PV37X504C01B00	490-3042-ND	PV37Z504C01B00	490-2985-ND	PV37W504C01B00	490-3023-ND	PV37Y504C01B00	1.31	1.19	.84
1M	—	—	490-2991-ND	PV37X105C01B00	490-3029-ND	PV37Z105C01B00	490-2972-ND	PV37W105C01B00	490-3010-ND	PV37Y105C01B00	1.31	1.19	.84
2M	490-2959-ND	PV37P205C01B00	490-2997-ND	PV37X205C01B00	490-3035-ND	PV37Z205C01B00	490-2978-ND	PV37W205C01B00	490-3016-ND	PV37Y205C01B00	1.61	1.46	1.03

SMD Open Type Trimmer Potentiometers 2mm PVZ2 Series

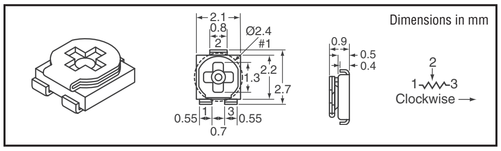

Features: • Gold plated termination achieve a high density PCB mounting • Cross-shaped driver slot allows for in-process automatic adjustment and it provides superior adjustability • Special resin substrate allow high peak temperature for reflow soldering

Specifications: • Power Rating: 0.1W (50°C) • Soldering Method: Reflow • Number of Turns (Effective Rotation Angle): 1 (240°±10°) • TCR (ppm/°C): ±500

Total Resistance Value (Ω) ±30%	Digi-Key Part No.	Cut Tape Pricing 5	10	100	Digi-Key Part No.	T & R Pricing 3,000	Murata Part No.
500	490-2041-1-ND	.76	1.28	11.18	490-2041-2-ND	75.96/M	PVZ2A501A01R00
1k	490-2031-1-ND	.76	1.28	11.18	490-2031-2-ND	75.96/M	PVZ2A102A01R00
2k	490-2035-1-ND	.76	1.28	11.18	—	—	PVZ2A202A01R00
3k	490-2038-1-ND	.76	1.28	11.18	490-2038-2-ND	75.96/M	PVZ2A302A01R00
5k	490-2042-1-ND	.76	1.28	11.18	490-2042-2-ND	75.96/M	PVZ2A502A01R00
10k	490-2032-1-ND	.76	1.28	11.18	490-2032-2-ND	75.96/M	PVZ2A103A01R00
20k	490-2036-1-ND	.76	1.28	11.18	490-2036-2-ND	75.96/M	PVZ2A203A01R00
30k	490-2039-1-ND	.76	1.28	11.18	490-2039-2-ND	75.96/M	PVZ2A303A01R00
50k	490-2043-1-ND	.76	1.28	11.18	490-2043-2-ND	75.96/M	PVZ2A503A01R00
100k	490-2033-1-ND	.76	1.28	11.18	490-2033-2-ND	75.96/M	PVZ2A104A01R00
200k	490-2037-1-ND	.76	1.28	11.18	490-2037-2-ND	75.96/M	PVZ2A204A01R00
300k	490-2040-1-ND	.76	1.28	11.18	490-2040-2-ND	75.96/M	PVZ2A304A01R00
500k	490-2044-1-ND	.76	1.28	11.18	490-2044-2-ND	75.96/M	PVZ2A504A01R00
1M	490-2034-1-ND	.76	1.28	11.18	490-2034-2-ND	75.96/M	PVZ2A105A01R00

SMD Open Type Trimmer Potentiometers 3mm PVZ3A and PVZ3G Series

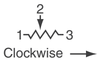

Features: • Excellent solderability characteristics are achieved via special plating techniques on each termination • Specially designed substrate prevents wicking of flux onto the top of the part body • Enlarged bottom termination enhance soldering strength while reducing the necessary land area required promoting high-density PCB mounting • Funnel shaped adjustment slot allows for in-process automatic adjustment • Standard position of driver plate is adjusted at the center • Products meets Pb-free

Specifications: • Power Rating: 0.1W (50°C) • Soldering Method: Reflow • Number of Turns (Effective Rotation Angle): 1 (230°±10°) • TCR (ppm/°C): ±500

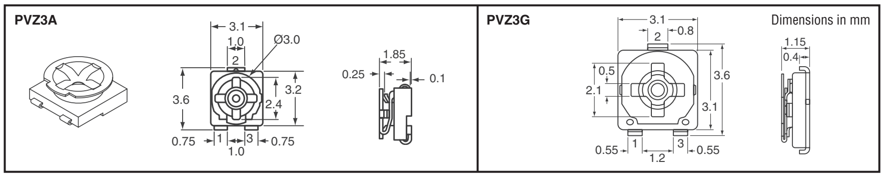

Total Resistance Value (Ω) ±30%	Digi-Key Part No.	Cut Tape Pricing 5	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Murata Part No.
				PVZ3A Series				
300	490-2023-1-ND	.55	.94	8.16	—	—	—	PVZ3A301A01R00
200k	490-2021-1-ND	.55	.94	8.16	—	—	—	PVZ3A204A01R00
300k	490-2026-1-ND	.55	.94	8.16	490-2026-2-ND	2,000	56.00/M	PVZ3A304A01R00
2M	490-2022-1-ND	.55	.94	8.16	—	—	—	PVZ3A205A01R00
				PVZ3G Series				
220	490-4618-1-ND	.55	.94	8.16	490-4618-2-ND	2,500	55.42/M	PVZ3G221C01R00
330	490-4623-1-ND	.55	.94	8.16	490-4623-2-ND	2,500	55.42/M	PVZ3G331C01R00
470	490-4627-1-ND	.55	.94	8.16	490-4627-2-ND	2,500	55.42/M	PVZ3G471C01R00
680	490-4631-1-ND	.55	.94	8.16	490-4631-2-ND	2,500	55.42/M	PVZ3G681C01R00
1k	490-4610-1-ND	.55	.94	8.16	490-4610-2-ND	2,500	55.42/M	PVZ3G102C01R00
1.5k	490-4614-1-ND	.55	.94	8.16	490-4614-2-ND	2,500	55.42/M	PVZ3G152C01R00
2.2k	490-4619-1-ND	.55	.94	8.16	490-4619-2-ND	2,500	55.42/M	PVZ3G222C01R00
3.3k	490-4624-1-ND	.55	.94	8.16	490-4624-2-ND	2,500	55.42/M	PVZ3G332C01R00
4.7k	490-4628-1-ND	.55	.94	8.16	490-4628-2-ND	2,500	55.42/M	PVZ3G472C01R00
6.8k	490-4632-1-ND	.55	.94	8.16	490-4632-2-ND	2,500	55.42/M	PVZ3G682C01R00
10k	490-4611-1-ND	1.00	1.70	14.81	490-4611-2-ND	2,500	100.58/M	PVZ3G103C01R00
15k	490-4615-1-ND	.57	.97	8.47	490-4615-2-ND	2,500	57.54/M	PVZ3G153C01R00
22k	490-4620-1-ND	.55	.94	8.16	490-4620-2-ND	2,500	55.42/M	PVZ3G223C01R00
33k	490-4625-1-ND	.50	.84	7.34	490-4625-2-ND	2,500	50.00/M	PVZ3G333C01R00
47k	490-4629-1-ND	.55	.94	8.16	490-4629-2-ND	2,500	55.42/M	PVZ3G473C01R00
68k	490-4633-1-ND	.55	.94	8.16	490-4633-2-ND	2,500	55.42/M	PVZ3G683C01R00
100k	490-4612-1-ND	.50	.85	7.44	490-4612-2-ND	2,500	51.00/M	PVZ3G104C01R00
150k	490-4616-1-ND	.55	.94	8.16	490-4616-2-ND	2,500	55.42/M	PVZ3G154C01R00
220k	490-4621-1-ND	.55	.94	8.16	490-4621-2-ND	2,500	55.42/M	PVZ3G224C01R00
330k	490-4626-1-ND	.55	.94	8.16	490-4626-2-ND	2,500	55.42/M	PVZ3G334C01R00
470k	490-4630-1-ND	.55	.94	8.16	490-4630-2-ND	2,500	55.42/M	PVZ3G474C01R00
680k	490-4634-1-ND	.55	.94	8.16	490-4634-2-ND	2,500	55.42/M	PVZ3G684C01R00
1M	490-4613-1-ND	.55	.94	8.16	490-4613-2-ND	2,500	55.42/M	PVZ3G105C01R00
1.5M	490-4617-1-ND	.55	.94	8.16	490-4617-2-ND	2,500	55.42/M	PVZ3G155C01R00
2.2M	490-4622-1-ND	.53	.89	7.78	490-4622-2-ND	2,500	53.00/M	PVZ3G225C01R00

Angle Sensing Potentiometer Dust-Proof Type 12mm SV01 Series

Features: • Dust-proof construction • Compliant to high peak temperature reflow soldering • Excellent resistance materials and high reliability wiper achieves 1M cycles • D formation thru-hole rotor enables to select any kind of gear shape • Ultra-thin size (2.1mm height) • Gold plated terminals without lead

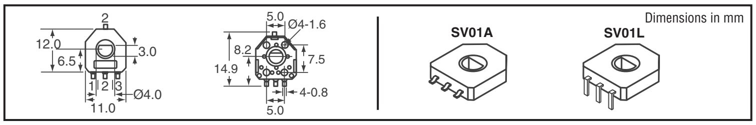

Total Resistance Value (kΩ) ±30%	Linearity ± (%)	Effective Rotational Angle (°) (Ref.)	TCR ± ppm/°C	Rotational Life (Cycles)	Mounting Style	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
10	2	333.3	500	1M	SMD	490-2400-ND	1.20	10.87	101.31	SV01A103AEA01B00
10	2	333.3	500	1M	Thru-Hole	490-3913-ND	1.27	11.52	107.39	SV01L103AEA11T00

Rotary Position Sensors SV01C

Potentiometer and Non-Contacting SV21C Series

Features:

SV01C Series: • Dust-proof construction • Temperature compensate range -40°C ~ 85°C • Optimal connector: Connector socket and bushing mount

SV21C Series: • Non-contacting • Programmable hole IC can be available for optional output voltage curve • Dust-proof construction • Temperature compensate range -20°C ~ 85°C • Optimal connector: Connector socket and bushing mount

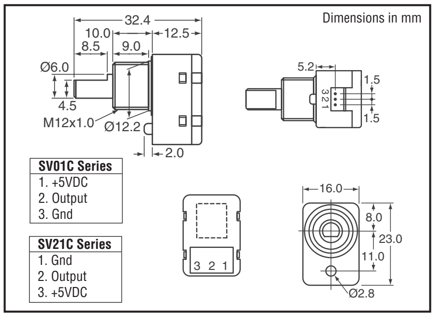

SV01C Series
1. +5VDC
2. Output
3. Gnd

SV21C Series
1. Gnd
2. Output
3. +5VDC

Total Resistance Value (kΩ) ±30%	Action Voltage ±0.5VDC	Linearity ± (%)	Effective Rotational Angle (°) Max.	Rotational Torque Max.	Rotational Life Cycles	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
				SV01C Series						
10	5	3	333.3	4mN·m (Ref.; 40gf·cm)	1M	490-4674-ND	6.05	5.50	5.13	SV01C103BJZAEB00
				SV21C Series						
—	5	2	200	5mN·m (Ref.; 50gf·cm)	10M	490-4635-ND	35.75	32.50	30.29	SV21C201BJA01B00

See Below for JST Mating Connector

Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	100	500	Tape and Reel† Qty.	Tape and Reel† Pricing	JST Part No.
3-Position, 1.5mm, Disconnectable Crimp Style ZH Connector	455-1160-ND◆	.39	3.24	12.94	—	—	ZHR-3
26-28AWG Tin-Plated Phosphor Bronze Crimp Contact	455-1130-1-ND◆Δ	—	1.35	5.41	13,000	7.20/M	SZH-002T-P0.5
28-32AWG Tin-Plated Phosphor Bronze Crimp Contact	455-1281-1-ND◆Δ	—	1.35	5.41	16,000	7.20/M	SZH-003T-P0.5
Crimp Tool with Die for 26-28AWG Contacts	455-1131-ND		419.19/1		—	—	WC-491
Crimp Tool with Die for 28-32AWG Contacts	455-1259-ND		419.19/1		—	—	WC-490

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. Δ Cut Tape

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

COPAL ELECTRONICS Cermet Potentiometers

Model ST2 *Surface Mount, 2mm Squared Single-Turn*

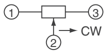

FEATURES: • Lead-free soldering • Cadmium-free • Compact and low-profile • Sealed Construction (Washable) **ELECTRICAL: Resistance Tolerance:** ±20% **Temperature Coefficient:** ±150 ppm/°C **Power Ratings:** 0.1W at 70°C; 0W at 125°C **Input Voltage Maximum:** 50VDC or power rating, whichever is less **Wiper Current Maximum:** Power Ratings (I = √P/R A) **Effective Electrical Angle:** 240° (1 turn) **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 2% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 500VAC, 1 minute **MECHANICAL: Mechanical Angle:** 270° (1 turn) **Maximum Operating Torque:** 5mN.m (51 gf.cm) **Minimum Stop Strength:** 8mN.m (78.4 gf.cm) **Rotational Life:** 50 cycles (Δ R/R ≤ (2 Ω +5%) **Solderability:** 245 ±3°C, 2~3 seconds

ST2A – J Lead, Top Adjustment

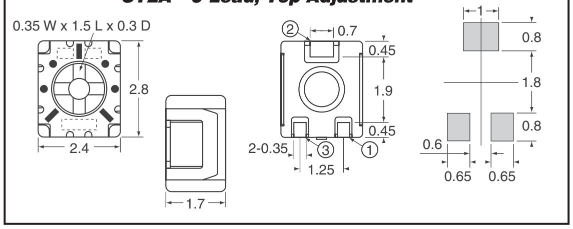

Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500
100	ST2TA101CT-ND	3.30	3.07	2.77	ST2TA101TR-ND	1177.00
200	ST2TA201CT-ND	3.30	3.07	2.77	ST2TA201TR-ND	1177.00
500	ST2TA501CT-ND	3.30	3.07	2.77	ST2TA501TR-ND	1177.00
1K	ST2TA102CT-ND	3.30	3.07	2.77	ST2TA102TR-ND	1177.00
2K	ST2TA202CT-ND	3.30	3.07	2.77	ST2TA202TR-ND	1177.00
5K	ST2TA502CT-ND	3.30	3.07	2.77	ST2TA502TR-ND	1177.00
10K	ST2TA103CT-ND	3.30	3.07	2.77	ST2TA103TR-ND	1177.00
20K	ST2TA203CT-ND	3.30	3.07	2.77	ST2TA203TR-ND	1177.00
50K	ST2TA503CT-ND	3.30	3.07	2.77	ST2TA503TR-ND	1177.00
100K	ST2TA104CT-ND	3.30	3.07	2.77	ST2TA104TR-ND	1177.00
200K	ST2TA204CT-ND	3.30	3.07	2.77	ST2TA204TR-ND	1177.00
500K	ST2TA504CT-ND	3.30	3.07	2.77	ST2TA504TR-ND	1177.00
1 Meg	ST2TA105CT-ND	3.30	3.07	2.77	ST2TA105TR-ND	1177.00

Units Marked with Resistance Code and 2-Digit Date Code.

Model SM3 *Surface Mount, 3mm Squared Multi-Turn*

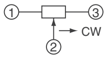

FEATURES: • Lead-free soldering • Cadmium-free • Fine adjustment • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable) **ELECTRICAL: Resistance Tolerance:** ±20% **Maximum Temperature Coefficient:** ±100 ppm/°C **Power Ratings:** 0.125W at 70°C; 0W at 150°C **Input Voltage Maximum:** 200VDC or power rating, whichever is less **Wiper Current Maximum:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 11 turns **End Resistance:** 1% or 3Ω, whichever is greater **Contact Resistance Variation:** 3% or 3Ω, whichever is greater **Operating Temperature Range:** -65°C ~ 150°C **Minimum Insulation Resistance:** 100MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute **MECHANICAL: Maximum Operating Torque:** 5mN.m (51gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles (Δ R/R ≤ ± (2Ω +3%) **Minimum Thrust to Shaft:** 5N (0.51kgf) **Solderability:** 245 ±3°C, 2~3 seconds

SM3TW – J Lead, Top Adjustment

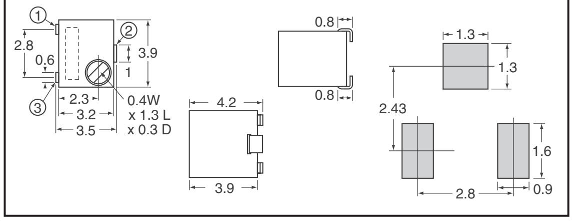

Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500
100	SM-3TW101CT-ND	2.90	2.70	2.44	SM-3TW101TR-ND	1037.00
500	SM-3TW501CT-ND	2.90	2.70	2.44	SM-3TW501TR-ND	1037.00
1K	SM-3TW102CT-ND	2.90	2.70	2.44	SM-3TW102TR-ND	1037.00
2K	SM-3TW202CT-ND	2.90	2.70	2.44	SM-3TW202TR-ND	1037.00
5K	SM-3TW502CT-ND	2.90	2.70	2.44	SM-3TW502TR-ND	1037.00
10K	SM-3TW103CT-ND	2.90	2.70	2.44	SM-3TW103TR-ND	1037.00
20K	SM-3TW203CT-ND	2.90	2.70	2.44	SM-3TW203TR-ND	1037.00
50K	SM-3TW503CT-ND	2.90	2.70	2.44	SM-3TW503TR-ND	1037.00
100K	SM-3TW104CT-ND	2.90	2.70	2.44	SM-3TW104TR-ND	1037.00

Units Marked with Resistance Code and 2-Digit Date Code.

Model SM42 *Surface Mount, 4mm Squared Multi-Turn*

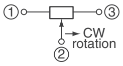

FEATURES: • Lead free soldering • Cadmium-free • Fine adjustment • Reflow soldering available • Sealed construction (washable) **ELECTRICAL:** • **Resistance Tolerance:** ±10% • **Maximum Temperature Coefficient:** ±100 ppm/10°C Max. • **Power Ratings:** .25W@85°C, 0W @150°C • **Maximum Input Voltage:** 300VDC or power rating, whichever is less • **Maximum Wiper Current:** 100mA or power rating, whichever is smaller • **Effective Electrical Turn:** 11 turns • **End Resistance:** 1% or 2Ω, whichever is greater • **Contact Resistance Variation**: 1% or 3Ω, whichever is greater • **Operating Temperature Range:** -65°C ~ 150°C • **Minimum Insulation Resistance:** 100MΩ @ 500VDC • **Dielectric Strength:** 600VAC for 1 minute **MECHANICAL:** • **Maximum Operating Torque**: 17.6mN per meter • **Mechanical Stop:** Clutch action • **Rotational Life:** 200 cycles (Δ R/R ≤ 3Ω +3%)

SM42TA – J Lead, Side Adjustment

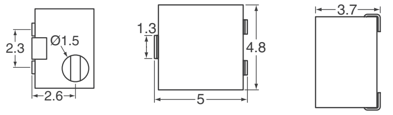

SM42TW – J Lead, Top Adjustment

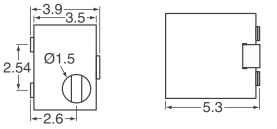

SM42TX – Gullwing, Top Adjustment

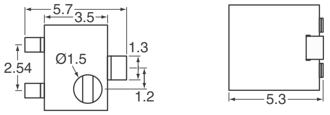

Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing
	SM-42TA – J-Lead, Side Adjustment						
50	SM-42TA500CT-ND	2.87	2.67	2.42	SM-42TA500TR-ND	500	1026.00
100	SM-42TA101CT-ND	2.87	2.67	2.42	SM-42TA101TR-ND	500	1026.00
200	SM-42TA201CT-ND	2.87	2.67	2.42	SM-42TA201TR-ND	500	1026.00
500	SM-42TA501CT-ND	2.87	2.67	2.42	SM-42TA501TR-ND	500	1026.00
1K	SM-42TA102CT-ND	2.87	2.67	2.42	SM-42TA102TR-ND	500	1026.00
2K	SM-42TA202CT-ND	2.87	2.67	2.42	SM-42TA202TR-ND	500	1026.00
5K	SM-42TA502CT-ND	2.87	2.67	2.42	SM-42TA502TR-ND	500	1026.00
10K	SM-42TA103CT-ND	2.87	2.67	2.42	SM-42TA103TR-ND	500	1026.00
20K	SM-42TA203CT-ND	2.87	2.67	2.42	SM-42TA203TR-ND	500	1026.00
50K	SM-42TA503CT-ND	2.87	2.67	2.42	SM-42TA503TR-ND	500	1026.00
100K	SM-42TA104CT-ND	2.87	2.67	2.42	SM-42TA104TR-ND	500	1026.00
200K	SM-42TA204CT-ND	2.87	2.67	2.42	SM-42TA204TR-ND	500	1026.00
500K	SM-42TA504CT-ND	2.87	2.67	2.42	SM-42TA504TR-ND	500	1026.00
1 Meg	SM-42TA105CT-ND	2.87	2.67	2.42	SM-42TA105TR-ND	500	1026.00
2 Meg	SM-42TA205CT-ND	2.87	2.67	2.42	SM-42TA205TR-ND	500	1026.00
	SM-42TW – J-Lead, Top Adjustment						
50	SM-42TW500CT-ND	2.87	2.67	2.42	SM-42TW500TR-ND	250	513.00
100	SM-42TW101CT-ND	2.87	2.67	2.42	SM-42TW101TR-ND	250	513.00
200	SM-42TW201CT-ND	2.87	2.67	2.42	SM-42TW201TR-ND	250	513.00
500	SM-42TW501CT-ND	2.87	2.67	2.42	SM-42TW501TR-ND	250	513.00
1K	SM-42TW102CT-ND	2.87	2.67	2.42	SM-42TW102TR-ND	250	513.00
2K	SM-42TW202CT-ND	2.87	2.67	2.42	SM-42TW202TR-ND	250	513.00
5K	SM-42TW502CT-ND	2.87	2.67	2.42	SM-42TW502TR-ND	250	513.00
10K	SM-42TW103CT-ND	2.87	2.67	2.42	SM-42TW103TR-ND	250	513.00
20K	SM-42TW203CT-ND	2.87	2.67	2.42	SM-42TW203TR-ND	250	513.00
50K	SM-42TW503CT-ND	2.87	2.67	2.42	SM-42TW503TR-ND	250	513.00
100K	SM-42TW104CT-ND	2.87	2.67	2.42	SM-42TW104TR-ND	250	513.00
200K	SM-42TW204CT-ND	2.87	2.67	2.42	SM-42TW204TR-ND	250	513.00
500K	SM-42TW504CT-ND	2.87	2.67	2.42	SM-42TW504TR-ND	250	513.00
1 Meg	SM-42TW105CT-ND	2.87	2.67	2.42	SM-42TW105TR-ND	250	513.00
2 Meg	SM-42TW205CT-ND	2.87	2.67	2.42	SM-42TW205TR-ND	250	513.00
	SM-42TX – Gullwing, Top Adjustment						
50	SM-42TX500CT-ND	2.93	2.73	2.47	SM-42TX500TR-ND	250	523.75
100	SM-42TX101CT-ND	2.93	2.73	2.47	SM-42TX101TR-ND	250	523.75
200	SM-42TX201CT-ND	2.93	2.73	2.47	SM-42TX201TR-ND	250	523.75
500	SM-42TX501CT-ND	2.93	2.73	2.47	SM-42TX501TR-ND	250	523.75
1K	SM-42TX102CT-ND	2.93	2.73	2.47	SM-42TX102TR-ND	250	523.75
2K	SM-42TX202CT-ND	2.93	2.73	2.47	SM-42TX202TR-ND	250	523.75
5K	SM-42TX502CT-ND	2.93	2.73	2.47	SM-42TX502TR-ND	250	523.75
10K	SM-42TX103CT-ND	2.93	2.73	2.47	SM-42TX103TR-ND	250	523.75
20K	SM-42TX203CT-ND	2.93	2.73	2.47	SM-42TX203TR-ND	250	523.75
50K	SM-42TX503CT-ND	2.93	2.73	2.47	SM-42TX503TR-ND	250	523.75
100K	SM-42TX104CT-ND	2.93	2.73	2.47	SM-42TX104TR-ND	250	523.75
200K	SM-42TX204CT-ND	2.93	2.73	2.47	SM-42TX204TR-ND	250	523.75
500K	SM-42TX504CT-ND	2.93	2.73	2.47	SM-42TX504TR-ND	250	523.75
1 Meg	SM-42TX105CT-ND	2.93	2.73	2.47	SM-42TX105TR-ND	250	523.75
2 Meg	SM-42TX205CT-ND	2.93	2.73	2.47	SM-42TX205TR-ND	250	523.75

Units Marked with Resistance Code and 2-Digit Date Code.

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Model SM4

Surface Mount
4mm, 12-Turn, Sealed

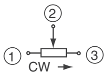

SM4ETA - J Lead, Side Adjustment

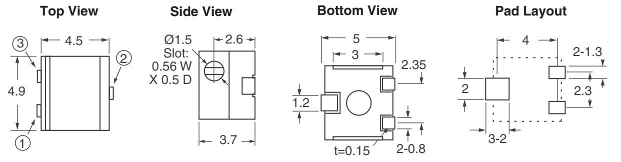

SM4ETW - J Lead, Top Adjustment

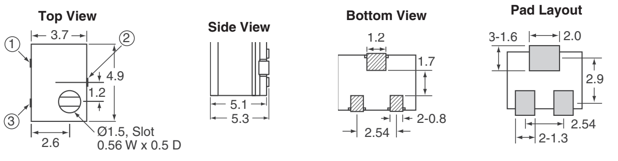

FEATURES:

- Lead-free soldering • Cadmium-free • Fine adjustment • Automatic mounting • Flow/reflow soldering
- Sealed construction (Washable)

ELECTRICAL:

Resistance Tolerance: ±10% **Maximum Temperature Coefficient:** ±100 ppm/°C **Power Ratings:** 0.25W at 85°C, 0W at 150°C **Maximum Input Voltage:** 300VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 10 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -65°C ~ 150°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute

MECHANICAL:

Mechanical Turn: 12 turns

Maximum Operating Torque: 20mN.m (204gf.cm)

Mechanical Stop: Clutch action

Rotational Life: 200 cycles, (Δ R/R ≤ ± (3Ω +3%)

Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500
100	SM4ETA101CT-ND	2.96	2.76	2.49	SM4ETA101TR-ND	1058.50
200	SM4ETA201CT-ND	2.96	2.76	2.49	—	—
1K	SM4ETA102CT-ND	2.96	2.76	2.49	—	—
200K	SM4ETA204CT-ND	2.96	2.76	2.49	—	—
1 Meg	SM4ETA105CT-ND	2.96	2.76	2.49	—	—
200K	SM4ETW204CT-ND	2.96	2.76	2.49	SM4ETW204TR-ND	529.25

Units Marked with Resistance Code and 2-Digit Date Code.

Model ST4 *Surface Mount, 4mm Squared Single-Turn*

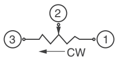

FEATURES: • Lead-free soldering • Cadmium-free • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable) • Stopper structure prevents terminal pin from being open • Cross slot rotor suitable for automatic adjustment **ELECTRICAL: Resistance Tolerance:** ±20% **Maximum Temperature Coefficient:** 100Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.25W at 70°C, 0W at 125°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Angle:** 210°C (1 turn) **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 500VAC, 1 minute **MECHANICAL: Mechanical Angle:** 240° (1 turn) **Maximum Operating Torque:** 10mN.m (102gf.cm) **Minimum Stop Strength:** 30mN.m (306gf.cm) **Rotational Life:** 100 cycles, (Δ R/R ≤ ± (2Ω +3%)

ST4ETA - J Lead, Top Adjustment

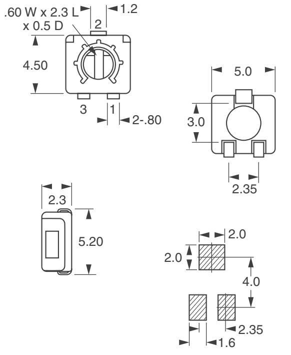

ST4ETB - Gull Wing, Top Adjustment

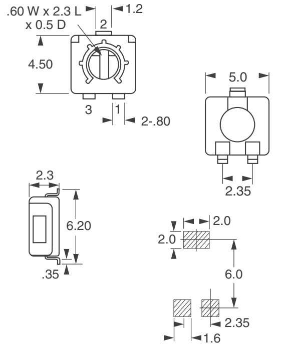

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing 500
10	ST4ETA100CT-ND	ST4ETB100CT-ND	1.19	1.11	1.01	ST4ETA100TR-ND	ST4ETB100TR-ND	426.50
50	ST4ETA500CT-ND	ST4ETB500CT-ND	1.19	1.11	1.01	ST4ETA500TR-ND	ST4ETB500TR-ND	426.50
100	ST4ETA101CT-ND	ST4ETB101CT-ND	1.19	1.11	1.01	ST4ETA101TR-ND	ST4ETB101TR-ND	426.50
200	ST4ETA201CT-ND	ST4ETB201CT-ND	1.19	1.11	1.01	ST4ETA201TR-ND	ST4ETB201TR-ND	426.50
500	ST4ETA501CT-ND	ST4ETB501CT-ND	1.19	1.11	1.01	ST4ETA501TR-ND	ST4ETB501TR-ND	426.50
1K	ST4ETA102CT-ND	ST4ETB102CT-ND	1.19	1.11	1.01	ST4ETA102TR-ND	ST4ETB102TR-ND	426.50
2K	ST4ETA202CT-ND	ST4ETB202CT-ND	1.19	1.11	1.01	ST4ETA202TR-ND	ST4ETB202TR-ND	426.50
5K	ST4ETA502CT-ND	ST4ETB502CT-ND	1.19	1.11	1.01	ST4ETA502TR-ND	ST4ETB502TR-ND	426.50
10K	ST4ETA103CT-ND	ST4ETB103CT-ND	1.19	1.11	1.01	ST4ETA103TR-ND	ST4ETB103TR-ND	426.50
20K	ST4ETA203CT-ND	ST4ETB203CT-ND	1.19	1.11	1.01	ST4ETA203TR-ND	ST4ETB203TR-ND	426.50
50K	ST4ETA503CT-ND	ST4ETB503CT-ND	1.19	1.11	1.01	ST4ETA503TR-ND	ST4ETB503TR-ND	426.50
100K	ST4ETA104CT-ND	ST4ETB104CT-ND	1.19	1.11	1.01	ST4ETA104TR-ND	ST4ETB104TR-ND	426.50
200K	ST4ETA204CT-ND	ST4ETB204CT-ND	1.19	1.11	1.01	ST4ETA204TR-ND	ST4ETB204TR-ND	426.50
500K	ST4ETA504CT-ND	ST4ETB504CT-ND	1.19	1.11	1.01	ST4ETA504TR-ND	ST4ETB504TR-ND	426.50
1 Meg	ST4ETA105CT-ND	ST4ETB105CT-ND	1.19	1.11	1.01	ST4ETA105TR-ND	ST4ETB105TR-ND	426.50
2 Meg	ST4ETA205CT-ND	ST4ETB205CT-ND	1.19	1.11	1.01	ST4ETA205TR-ND	ST4ETB205TR-ND	426.50

Units Marked with Resistance Mark and 2 Digit Date Code.

Model ST5

Surface Mount, 6mm Squared Multi-Turn

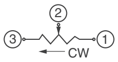

FEATURES: • Lead-free soldering • Cadmium-free • Precise Adjustment • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable) **ELECTRICAL: Resistance Tolerance:** ±10% **Maximum Temperature Coefficient:** 100Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.25W at 85°C, 0W at 120°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 11 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 120°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute **MECHANICAL: Mechanical Turn:** 14 turns **Maximum Operating Torque:** 20mN.m (204gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles, 10Ω ~ 200Ω (Δ R/R ≤ ± (0.5Ω +3%), 500Ω ~ 2MΩ (Δ R/R ≤ ± (0.5Ω +2%)

ST5ETP - Gull Wing, Side Adjustment

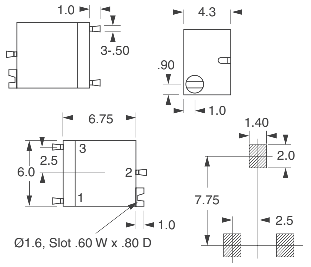

ST5ETW - Gull Wing, Top Adjustment

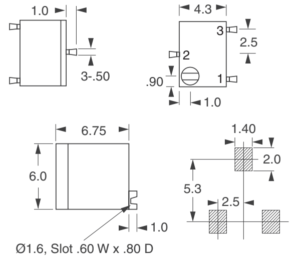

ST5ETX - Gull Wing, Side Adjustment

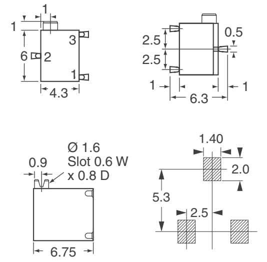

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing 500
100	ST5ETP101CT-ND	ST5ETW101CT-ND	ST5ETX101CT-ND	3.24	3.01	2.72	ST5ETP101TR-ND	ST5ETW101TR-ND	ST5ETX101TR-ND	1155.50
500	ST5ETP501CT-ND	ST5ETW501CT-ND	ST5ETX501CT-ND	3.24	3.01	2.72	ST5ETP501TR-ND	ST5ETW501TR-ND	ST5ETX501TR-ND	1155.50
1K	ST5ETP102CT-ND	ST5ETW102CT-ND	ST5ETX102CT-ND	3.24	3.01	2.72	ST5ETP102TR-ND	ST5ETW102TR-ND	ST5ETX102TR-ND	1155.50
2K	ST5ETP202CT-ND	ST5ETW202CT-ND	ST5ETX202CT-ND	3.24	3.01	2.72	ST5ETP202TR-ND	ST5ETW202TR-ND	ST5ETX202TR-ND	1155.50
5K	ST5ETP502CT-ND	ST5ETW502CT-ND	ST5ETX502CT-ND	3.24	3.01	2.72	ST5ETP502TR-ND	ST5ETW502TR-ND	ST5ETX502TR-ND	1155.50
10K	ST5ETP103CT-ND	ST5ETW103CT-ND	ST5ETX103CT-ND	3.24	3.01	2.72	ST5ETP103TR-ND	ST5ETW103TR-ND	ST5ETX103TR-ND	1155.50
20K	ST5ETP203CT-ND	ST5ETW203CT-ND	ST5ETX203CT-ND	3.24	3.01	2.72	ST5ETP203TR-ND	ST5ETW203TR-ND	ST5ETX203TR-ND	1155.50
50K	ST5ETP503CT-ND	ST5ETW503CT-ND	ST5ETX503CT-ND	3.24	3.01	2.72	ST5ETP503TR-ND	ST5ETW503TR-ND	ST5ETX503TR-ND	1155.50
100K	ST5ETP104CT-ND	ST5ETW104CT-ND	ST5ETX104CT-ND	3.24	3.01	2.72	ST5ETP104TR-ND	ST5ETW104TR-ND	ST5ETX104TR-ND	1155.50

Units Marked with Resistance Mark and 2 Digit Date Code.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Model ST7

Surface Mount, 7mm Squared Multi-Turn

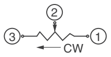

ST7ETA - J Lead, Top Adjustment

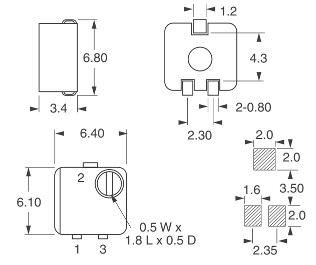

ST7ETB - Gull Wing, Top Adjustment

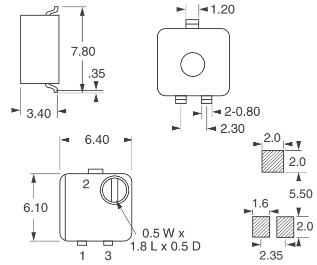

FEATURES: • Lead-free soldering • Cadmium-free • Fine adjustment • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable)

ELECTRICAL: Resistance Tolerance: ±20% **Maximum Temperature Coefficient:** 100Ω ~ 1MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.25W at 70°C, 0W at 125°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 2.5 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute

MECHANICAL: Mechanical Turn: 3 turns **Maximum Operating Torque:** 5mN.m (51gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 100 cycles, (Δ R/R ≤ ± (2Ω +3%)

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing 500
1K	ST7ETA102CT-ND	ST7ETB102CT-ND	5.99	5.56	5.03	ST7ETA102TR-ND	ST7ETB102TR-ND	2138.50
2K	ST7ETA202CT-ND	ST7ETB202CT-ND	5.99	5.56	5.03	ST7ETA202TR-ND	ST7ETB202TR-ND	2138.50
5K	ST7ETA502CT-ND	ST7ETB502CT-ND	5.99	5.56	5.03	ST7ETA502TR-ND	ST7ETB502TR-ND	2138.50
10K	ST7ETA103CT-ND	ST7ETB103CT-ND	5.99	5.56	5.03	ST7ETA103TR-ND	ST7ETB103TR-ND	2138.50
20K	ST7ETA203CT-ND	ST7ETB203CT-ND	5.99	5.56	5.03	ST7ETA203TR-ND	ST7ETB203TR-ND	2138.50
50K	ST7ETA503CT-ND	ST7ETB503CT-ND	5.99	5.56	5.03	ST7ETA503TR-ND	ST7ETB503TR-ND	2138.50
100K	ST7ETA104CT-ND	ST7ETB104CT-ND	5.99	5.56	5.03	ST7ETA104TR-ND	ST7ETB104TR-ND	2138.50

Units Marked with Resistance Mark and 2 Digit Date Code.

Model ST-32

Surface Mount, 3mm Squared Single-Turn

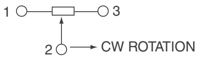

ST32ETA - J Lead, Top Adjustment

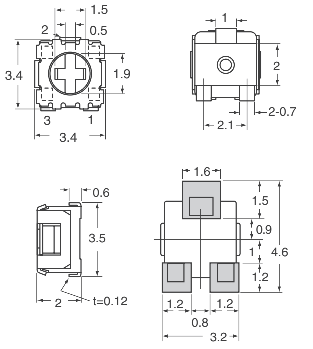

ST32ETB - Gull Wing, Top Adjustment

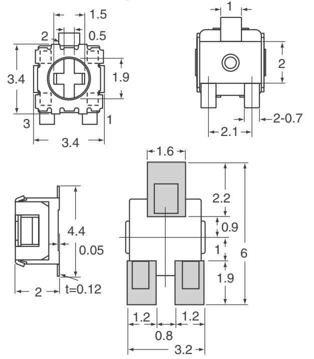

FEATURES: • Lead-free soldering • Cadmium-free • Top adjustment style • Rotor with a cross slot for ease of adjustment • Leaded terminals provide strong as adhesive strength against P.C.B. bending • J-hook and Gull wing configurations • Sealed/Washable

ELECTRICAL: Resistance Tolerance: ±20% **Maximum Temperature Coefficient:** 100Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.125W at 70°C, 0W at 125°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Angle:** 210° (1 turn) **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 500VAC, 1 minute

MECHANICAL: Mechanical Angle: 250° (1 turn) **Maximum Operating Torque:** 5mN.m (51gf.cm) **Minimum Stop Strength:** 20mN.m (204gf.cm) **Rotational Life:** 100 cycles (Δ R/R ≤ ± (2Ω +3%)

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing 500
50	ST32ETA500CT-ND	ST32ETB500CT-ND	1.15	1.07	.97	ST32ETA500TR-ND	ST32ETB500TR-ND	410.50
100	ST32ETA101CT-ND	ST32ETB101CT-ND	1.15	1.07	.97	ST32ETA101TR-ND	ST32ETB101TR-ND	410.50
200	ST32ETA201CT-ND	ST32ETB201CT-ND	1.15	1.07	.97	ST32ETA201TR-ND	ST32ETB201TR-ND	410.50
500	ST32ETA501CT-ND	ST32ETB501CT-ND	1.15	1.07	.97	ST32ETA501TR-ND	ST32ETB501TR-ND	410.50
1K	ST32ETA102CT-ND	ST32ETB102CT-ND	1.15	1.07	.97	ST32ETA102TR-ND	ST32ETB102TR-ND	410.50
2K	ST32ETA202CT-ND	ST32ETB202CT-ND	1.15	1.07	.97	ST32ETA202TR-ND	ST32ETB202TR-ND	410.50
5K	ST32ETA502CT-ND	ST32ETB502CT-ND	1.15	1.07	.97	ST32ETA502TR-ND	ST32ETB502TR-ND	410.50
10K	ST32ETA103CT-ND	ST32ETB103CT-ND	1.15	1.07	.97	ST32ETA103TR-ND	ST32ETB103TR-ND	410.50
20K	ST32ETA203CT-ND	ST32ETB203CT-ND	1.15	1.07	.97	ST32ETA203TR-ND	ST32ETB203TR-ND	410.50
50K	ST32ETA503CT-ND	ST32ETB503CT-ND	1.15	1.07	.97	ST32ETA503TR-ND	ST32ETB503TR-ND	410.50
100K	ST32ETA104CT-ND	ST32ETB104CT-ND	1.15	1.07	.97	ST32ETA104TR-ND	ST32ETB104TR-ND	410.50
200K	ST32ETA204CT-ND	ST32ETB204CT-ND	1.15	1.07	.97	ST32ETA204TR-ND	ST32ETB204TR-ND	410.50
500K	ST32ETA504CT-ND	ST32ETB504CT-ND	1.15	1.07	.97	ST32ETA504TR-ND	ST32ETB504TR-ND	410.50
1 Meg	ST32ETA105CT-ND	ST32ETB105CT-ND	1.15	1.07	.97	ST32ETA105TR-ND	ST32ETB105TR-ND	410.50

Units Marked with Resistance Mark and 1 Digit Date Code.

Model CT6

6mm Squared Single Turn

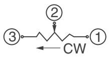

FEATURES: • Lead-free soldering • Cadmium-free • Various configurations • "O" ring sealed and washable

ELECTRICAL: Resistance Tolerance: ±10% **Maximum Temperature Coefficient:** 50Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.5W at 70°C, 0W at 120°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Angle:** 220° (1 turn) **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 120°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 900VAC, 1 minute

MECHANICAL: Mechanical Angle: 260° (1 turn) **Operating Torque:** 2~20mN.m (20~204gf.cm) **Minimum Stop Strength:** 50mN.m (510gf.cm) **Rotational Life:** 200 cycles, (Δ R/R ≤ ± (2Ω +3%) **Minimum Terminal Strength:** 10N (1.02kgf) **Solderability:** 245 ±3°C, 2-3 seconds

CT6EP - Top Adjustment

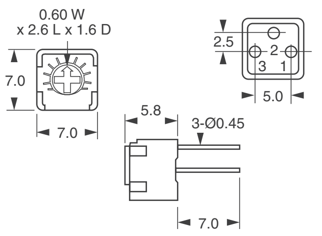

CT6ER - Top Adjustment

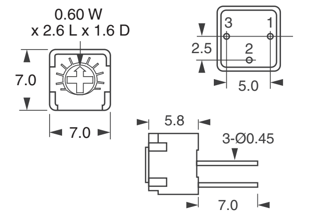

CT6EW - Top Adjustment

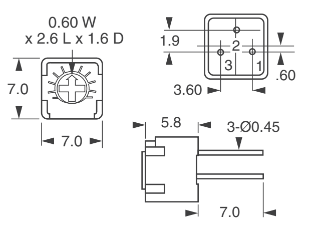

CT6EX - Side Adjustment

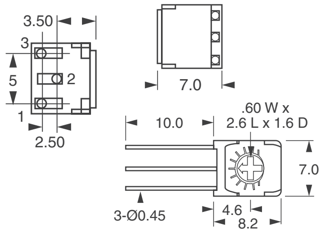

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
50	CT6EP500-ND	.68	.64	.58	.49	.44
100	CT6EP101-ND	.68	.64	.58	.49	.44
200	CT6EP201-ND	.68	.64	.58	.49	.44
500	CT6EP501-ND	.68	.64	.58	.49	.44
1K	CT6EP102-ND	.68	.64	.58	.49	.44
2K	CT6EP202-ND	.68	.64	.58	.49	.44
5K	CT6EP502-ND	.68	.64	.58	.49	.44
10K	CT6EP103-ND	.68	.64	.58	.49	.44
20K	CT6EP203-ND	.68	.64	.58	.49	.44
50K	CT6EP503-ND	.68	.64	.58	.49	.44
100K	CT6EP104-ND	.68	.64	.58	.49	.44
200K	CT6EP204-ND	.68	.64	.58	.49	.44
500K	CT6EP504-ND	.68	.64	.58	.49	.44
1 Meg	CT6EP105-ND	.68	.64	.58	.49	.44
2 Meg	CT6EP205-ND	.68	.64	.58	.49	.44

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500	1,000
50	CT6ER500-ND	CT6EW500-ND	.76	.71	.64	.55	.49
100	CT6ER101-ND	CT6EW101-ND	.76	.71	.64	.55	.49
200	CT6ER201-ND	CT6EW201-ND	.76	.71	.64	.55	.49
500	CT6ER501-ND	CT6EW501-ND	.76	.71	.64	.55	.49
1K	CT6ER102-ND	CT6EW102-ND	.76	.71	.64	.55	.49
2K	CT6ER202-ND	CT6EW202-ND	.76	.71	.64	.55	.49
5K	CT6ER502-ND	CT6EW502-ND	.76	.71	.64	.55	.49
10K	CT6ER103-ND	CT6EW103-ND	.76	.71	.64	.55	.49
20K	CT6ER203-ND	CT6EW203-ND	.76	.71	.64	.55	.49
50K	CT6ER503-ND	CT6EW503-ND	.76	.71	.64	.55	.49
100K	CT6ER104-ND	CT6EW104-ND	.76	.71	.64	.55	.49
200K	CT6ER204-ND	CT6EW204-ND	.76	.71	.64	.55	.49
500K	CT6ER504-ND	CT6EW504-ND	.76	.71	.64	.55	.49
1 Meg	CT6ER105-ND	CT6EW105-ND	.76	.71	.64	.55	.49
2 Meg	CT6ER205-ND	CT6EW205-ND	.76	.71	.64	.55	.49

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
50	CT6EX500-ND	.76	.71	.64	.55	.49
100	CT6EX101-ND	.76	.71	.64	.55	.49
200	CT6EX201-ND	.76	.71	.64	.55	.49
500	CT6EX501-ND	.76	.71	.64	.55	.49
1K	CT6EX102-ND	.76	.71	.64	.55	.49
2K	CT6EX202-ND	.76	.71	.64	.55	.49
5K	CT6EX502-ND	.76	.71	.64	.55	.49
10K	CT6EX103-ND	.76	.71	.64	.55	.49
20K	CT6EX203-ND	.76	.71	.64	.55	.49
50K	CT6EX503-ND	.76	.71	.64	.55	.49
100K	CT6EX104-ND	.76	.71	.64	.55	.49
200K	CT6EX204-ND	.76	.71	.64	.55	.49
500K	CT6EX504-ND	.76	.71	.64	.55	.49
1 Meg	CT6EX105-ND	.76	.71	.64	.55	.49
2 Meg	CT6EX205-ND	.76	.71	.64	.55	.49

Units Marked with Resistance Mark and 2 Digit Date Code.

(Continued)

Model CT94 *9mm Squared Multi-Turn*

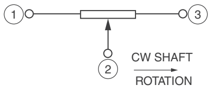

FEATURES: • Lead-free soldering • Cadmium-free • Thin body design • 18 turn, sealed, precision type **ELECTRICAL: Resistance Tolerance:** ±10% **Maximum Temperature Coefficient:** 50Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.5W at 70°C, 0W at 125°C **Maximum Input Voltage:** 300VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 15 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 900VAC, 1 minute **MECHANICAL: Mechanical Turn:** 18 turns **Maximum Operating Torque:** 35mN.m (357gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles, (Δ R/R ≤ ± (2Ω +3%) **Minimum Terminal Strength:** 10N (1.02kgf) **Solderability:** 245 ±3°C, 2-3 seconds

CT94EW - Top Adjustment

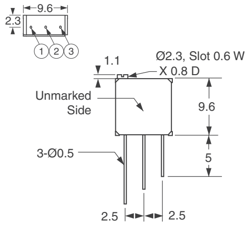

CT94EX - Side Adjustment

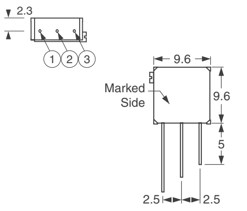

CT94EP - Side Adjustment

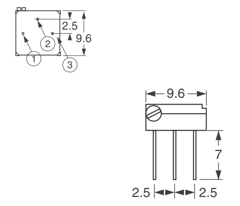

CT94EY - Top Adjustment

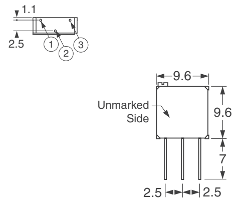

CT94EZ - Side Adjustment

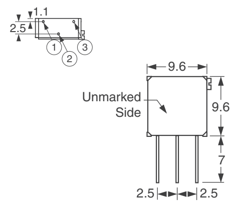

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500
50	CT94EW500-ND	—	1.36	1.27	1.15	.98
100	CT94EW101-ND	CT94EX101-ND	1.36	1.27	1.15	.98
200	CT94EW201-ND	CT94EX201-ND	1.36	1.27	1.15	.98
500	CT94EW501-ND	CT94EX501-ND	1.36	1.27	1.15	.98
1K	CT94EW102-ND	CT94EX102-ND	1.36	1.27	1.15	.98
2K	CT94EW202-ND	CT94EX202-ND	1.36	1.27	1.15	.98
5K	CT94EW502-ND	CT94EX502-ND	1.36	1.27	1.15	.98
10K	CT94EW103-ND	CT94EX103-ND	1.36	1.27	1.15	.98
20K	CT94EW203-ND	CT94EX203-ND	1.36	1.27	1.15	.98
50K	CT94EW503-ND	CT94EX503-ND	1.36	1.27	1.15	.98
100K	CT94EW104-ND	CT94EX104-ND	1.36	1.27	1.15	.98
200K	CT94EW204-ND	CT94EX204-ND	1.36	1.27	1.15	.98
500K	CT94EW504-ND	CT94EX504-ND	1.36	1.27	1.15	.98
1 Meg	CT94EW105-ND	CT94EX105-ND	1.36	1.27	1.15	.98
2 Meg	CT94EW205-ND	—	1.36	1.27	1.15	.98

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500
50	—	CT94EY500-ND	—	1.36	1.27	1.15	.98
100	CT94EP101-ND	CT94EY101-ND	CT94EZ101-ND	1.36	1.27	1.15	.98
200	—	CT94EY201-ND	CT94EZ201-ND	1.36	1.27	1.15	.98
500	CT94EP501-ND	CT94EY501-ND	CT94EZ501-ND	1.36	1.27	1.15	.98
1K	CT94EP102-ND	CT94EY102-ND	CT94EZ102-ND	1.36	1.27	1.15	.98
2K	CT94EP202-ND	CT94EY202-ND	CT94EZ202-ND	1.36	1.27	1.15	.98
5K	CT94EP502-ND	CT94EY502-ND	CT94EZ502-ND	1.36	1.27	1.15	.98
10K	CT94EP103-ND	CT94EY103-ND	CT94EZ103-ND	1.36	1.27	1.15	.98
20K	CT94EP203-ND	CT94EY203-ND	CT94EZ203-ND	1.36	1.27	1.15	.98
50K	CT94EP503-ND	CT94EY503-ND	CT94EZ503-ND	1.36	1.27	1.15	.98
100K	CT94EP104-ND	CT94EY104-ND	CT94EZ104-ND	1.36	1.27	1.15	.98
200K	CT94EP204-ND	CT94EY204-ND	—	1.36	1.27	1.15	.98
500K	CT94EP504-ND	CT94EY504-ND	CT94EZ504-ND	1.36	1.27	1.15	.98
1 Meg	—	CT94EY105-ND	—	1.36	1.27	1.15	.98
2 Meg	CT94EP205-ND	CT94EY205-ND	—	1.36	1.27	1.15	.98

Units Marked with Resistance Code and 2 Digit Date Code.

Model CT9

9mm Squared Multi-Turn

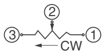

FEATURES:

- Lead-free soldering • Cadmium-free • General use
- Fine setting possible with 18 turn configuration

ELECTRICAL:

Resistance Tolerance: ±10% **Maximum Temperature Coefficient:** 50Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.5W at 70°C, 0W at 120°C **Maximum Input Voltage:** 300VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 15 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 120°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 900VAC, 1 minute

MECHANICAL:

Mechanical Turn: 18 turns **Maximum Operating Torque:** 35mN.m (357gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles, (Δ R/R ≤ ± (2Ω +3%) **Minimum Terminal Strength:** 10N (1.02kgf) **Solderability:** 245 ±3°C, 2-3 seconds

CT9EP - Side Adjustment

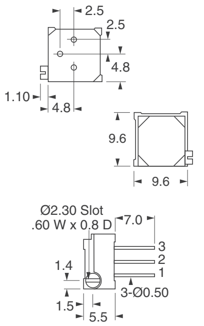

CT9EW - Top Adjustment

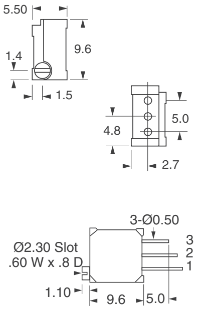

CT9EX - Side Adjustment

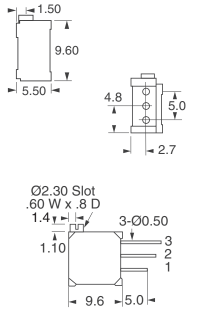

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500	1,000
1K	CT9EP102-ND	CT9EW102-ND	CT9EX102-ND	1.87	1.75	1.58	1.34	1.21
2K	CT9EP202-ND	CT9EW202-ND	CT9EX202-ND	1.87	1.75	1.58	1.34	1.21
5K	CT9EP502-ND	CT9EW502-ND	CT9EX502-ND	1.87	1.75	1.58	1.34	1.21
10K	CT9EP103-ND	CT9EW103-ND	CT9EX103-ND	1.87	1.75	1.58	1.34	1.21
20K	CT9EP203-ND	CT9EW203-ND	CT9EX203-ND	1.87	1.75	1.58	1.34	1.21
50K	CT9EP503-ND	CT9EW503-ND	CT9EX503-ND	1.87	1.75	1.58	1.34	1.21
100K	CT9EP104-ND	CT9EW104-ND	CT9EX104-ND	1.87	1.75	1.58	1.34	1.21

Units Marked with Resistance Mark and 2 Digit Date Code.

Model CT20

20mm Rectangular Multi-Turn

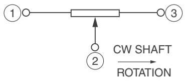

FEATURES: • Lead-free soldering • Cadmium-free • General use

ELECTRICAL: Resistance Tolerance: ±10% **Maximum Temperature Coefficient:** 50Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.5W at 70°C, 0W at 120°C **Maximum Input Voltage:** 300VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 12 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 120°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute

MECHANICAL: Mechanical Turn: 15 turns **Maximum Operating Torque:** 35mN.m (357gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles, 10Ω ~ 200Ω (Δ R/R ≤ ± (0.5Ω +3%); 500Ω ~ 5MΩ (Δ R/R ≤ ± (0.5Ω +2%) **Minimum Terminal Strength:** 9N (917gf) **Solderability:** 245 ±3°C, 2-3 seconds

CT20EP - Side Adjustment

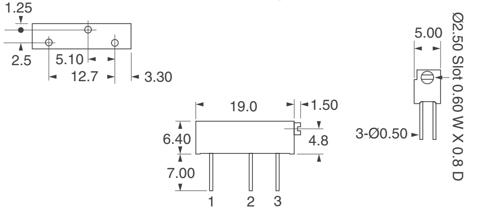

Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
1K	CT20EP102-ND	1.60	1.49	1.35	1.15	1.04
2K	CT20EP202-ND	1.60	1.49	1.35	1.15	1.04
5K	CT20EP502-ND	1.60	1.49	1.35	1.15	1.04
10K	CT20EP103-ND	1.60	1.49	1.35	1.15	1.04
20K	CT20EP203-ND	1.60	1.49	1.35	1.15	1.04
50K	CT20EP503-ND	1.60	1.49	1.35	1.15	1.04
100K	CT20EP104-ND	1.60	1.49	1.35	1.15	1.04

Units Marked with Resistance Mark and 2 Digit Date Code.

Trimmer Potentiometers

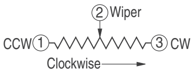

SERIES 3362 — 1/4" (6.35mm) Square/Single-Turn Cermet/Industrial/Sealed

Dim. in mm

3362H, P, R, U (common dimensions)

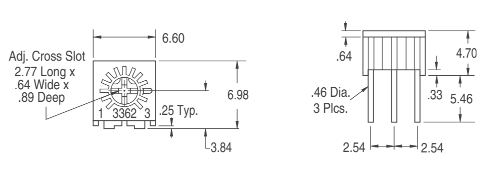

3362M, W, X (common dimensions)

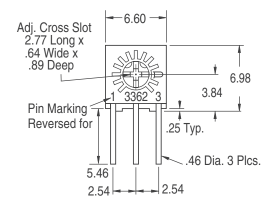

3362P with Knob (common dimensions)

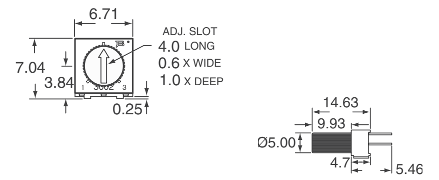

3362H

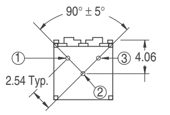

3362M

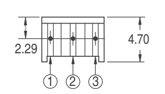

3362P

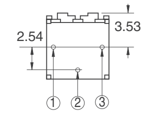

3362R

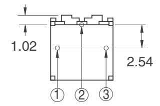

3362U

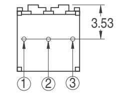

3362W

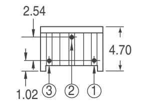

3362X

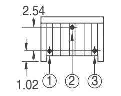

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3362H-101LF-ND◆	3362M-101LF-ND◆	3362P-101-ND†	—	3362U-101-ND†	3362W-101-ND†	3362X-101LF-ND◆	—
200	3362H-201LF-ND◆	3362M-201-ND†	3362P-201-ND†	3362R-201-ND†	3362U-201LF-ND◆	3362W-201LF-ND◆	3362X-201LF-ND◆	—
500	3362H-501LF-ND◆	3362M-501-ND†	3362P-501-ND†	3362R-501LF-ND◆	3362U-501-ND†	3362W-501LF-ND◆	3362X-501LF-ND◆	—
1K	3362H-102LF-ND◆	3362M-102-ND†	3362P-102LF-ND◆	3362R-102LF-ND◆	3362U-102-ND†	3362W-102LF-ND◆	3362X-102-ND†	—
2K	3362H-202-ND†	3362M-202LF-ND◆	3362P-202LF-ND◆	3362R-202LF-ND◆	3362U-202-ND†	3362W-202LF-ND◆	3362X-202LF-ND◆	3362P-202TLF-ND◆
5K	3362H-502LF-ND◆	3362M-502LF-ND◆	3362P-502LF-ND◆	3362R-502LF-ND◆	3362U-502-ND†	3362W-502LF-ND◆	3362X-502LF-ND◆	3362P-502TLF-ND◆
10K	3362H-103LF-ND◆	3362M-103LF-ND◆	3362P-103LF-ND◆	3362R-103LF-ND◆	3362U-103LF-ND◆	3362W-103-ND†	3362X-103LF-ND◆	3362P-103TLF-ND◆
20K	3362H-203LF-ND◆	3362M-203-ND†	3362P-203LF-ND◆	3362R-203LF-ND◆	3362U-203LF-ND◆	3362W-203LF-ND◆	3362X-203-ND†	3362P-203TLF-ND◆
25K	3362H-253LF-ND◆	3362M-253LF-ND◆	3362P-253LF-ND◆	3362R-253-ND	3362U-253LF-ND◆	3362W-253LF-ND◆	3362X-253LF-ND◆	—
50K	3362H-503LF-ND◆	3362M-503LF-ND◆	3362P-503LF-ND◆	3362R-503LF-ND◆	3362U-503-ND†	3362W-503LF-ND◆	—	3362P-503TLF-ND◆
100K	3362H-104LF-ND◆	3362M-104LF-ND◆	3362P-104LF-ND◆	3362R-104LF-ND◆	3362U-104LF-ND◆	3362W-104LF-ND◆	3362X-104LF-ND◆	—
200K	3362H-204LF-ND◆	—	3362P-204LF-ND◆	3362R-204LF-ND◆	3362U-204LF-ND◆	3362W-204LF-ND◆	3362X-204-ND†	—
500K	3362H-504LF-ND◆	3362M-504LF-ND◆	3362P-504LF-ND◆	3362R-504LF-ND◆	3362U-504-ND†	3362W-504-ND†	3362X-504-ND†	—
1M	3362H-105-ND†	3362M-105-ND†	3362P-105LF-ND◆	3362R-105-ND	3362U-105LF-ND◆	3362W-105-ND	3362X-105LF-ND◆	—

Features: • Miniature package • Rotor designed for automatic machine adjust interface • Multi-wire wiper to minimize CRV • Withstands harsh environments and immersion cleaning process
Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 240° nominal • **Power Rating (300V max.):** 70°C = 0.5W; 125°C = 0W • **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.5W @ 70°C (3% ΔTR; CRV, 3% or 3Ω whichever is greater) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Mechanical Angle:** 270° nominal • **Torque:** 3.0 oz-inch maximum • **Stop Strength:** 7.0 oz-inch minimum

Series	Pricing 1	10	50
3362H / 3362M / 3362P / 3362R / 3362U / 3362W / 3362X	.83	7.50	36.75
3362P (with Knob)	1.51	13.75	59.13

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to LF-ND

SERIES 3313 — 3mm Trimming Potentiometer

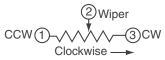

Digi-Reel®

Dim. in mm

3313J and 3313X

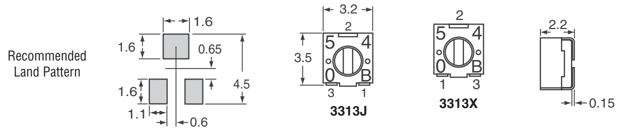

3313S

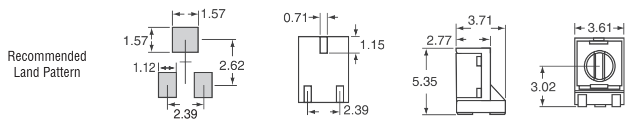

Resolution (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3313J-1-100E□□-ND◆ ***NEW!***	3313S-1-100E□□-ND◆ ***NEW!***	—
20	3313J-1-200E□□-ND◆ ***NEW!***	3313S-1-200E□□-ND◆ ***NEW!***	—
50	3313J-1-500E□□-ND◆ ***NEW!***	3313S-1-500E□□-ND◆ ***NEW!***	—
100	3313J-101E□□-ND◆	3313S-1-101E□□-ND◆ ***NEW!***	—
200	3313J-201E□□-ND◆	3313S-1-201E□□-ND◆ ***NEW!***	—
500	3313J-501E□□-ND◆	3313S-1-501E□□-ND◆ ***NEW!***	—
1K	3313J-102E□□-ND◆	3313S-102E□□-ND	—
2K	3313J-202E□□-ND◆	3313S-1-202E□□-ND◆ ***NEW!***	—
5K	3313J-502E□□-ND◆	3313S-1-502E□□-ND◆ ***NEW!***	3313X-502E□□-ND◆
10K	3313J-103E□□-ND◆	3313S-103E□□-ND	3313X-103E□□-ND◆
20K	3313J-203E□□-ND◆	3313S-203E□□-ND	3313X-203E□□-ND◆
50K	3313J-503E□□-ND◆	3313S-1-503E□□-ND◆ ***NEW!***	3313X-503E□□-ND◆
100K	3313J-104E□□-ND◆	3313S-1-104E□□-ND◆ ***NEW!***	—
200K	3313J-1-204E□□-ND◆ ***NEW!***	3313S-1-204E□□-ND◆ ***NEW!***	—
500K	3313J-1-504E□□-ND◆ ***NEW!***	3313S-1-504E□□-ND◆ ***NEW!***	—
1MEG	3313J-1-105E□□-ND◆ ***NEW!***	3313S-105E□□-ND◆	—
2MEG	3313J-1-205E□□-ND◆ ***NEW!***	3313S-1-205E□□-ND◆ ***NEW!***	—

Feature:
- Surface Mount 3mm Square Single-Turn Cermet/Sealed

Characteristics:
• **Resistance Tolerance:** ±20% standard • **End Resistance:** 1% or 3Ω maximum (whichever is greater) • **Contact Resistance Variation:** 3% or 3Ω • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Adjustment Angle:** 220° nominal • **Dielectric Strength:** ***Sea level:*** 500VAC; ***70,000 Feet:*** 350VAC • **Power Rating (200V max.):** 70°C = 0.125W; 125°C = 0W • **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ≤100Ω ±150ppm/°C; >100Ω ±100ppm/°C

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape and Reel Pricing 200	1,000
3313J/3313J-1	Add "CT"-ND	1.80	15.00	138.00	Add "TR"-ND	—	900.00
3313S/3313S-1	Add "CT"-ND	1.98	16.50	151.80	Add "TR"-ND	244.20	—
3313X	Add "CT"-ND	1.86	15.50	142.60	Add "TR"-ND	—	992.00

◆***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SERIES 3302 — 2mm SMD, Trimming Potentiometer 3302W, X

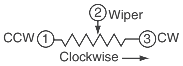

3 Terminals for Automatic Trimming Adjustment Low Profile

Dim. in mm

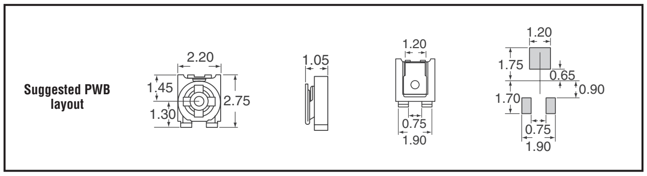

Feature: • Single-Turn Cermet / Open Frame **Characteristics:** • **Resistance Tolerance:** ±25% standard • **Contact Resistance Variation:** 5% maximum • **Resolution:** Infinite • **Adjustment Angle:** 260° ±20° • **Power Rating (50VDC maximum):** 70°C = 0.15W • **Temperature Range:** -40°C ~ 85°C • **Temperature Coefficient:** ±250ppm/°C • **TRS maximum:** ±5%

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
2K	3302W-202E□□-ND	—
5K	3302W-502E□□-ND◆	3302X-502E□□-ND
10K	3302W-103E□□-ND◆	3302X-103E□□-ND
20K	3302W-203E□□-ND	3302X-203E□□-ND

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape and Reel Pricing 3,000
3302W	Add "CT-ND"	.45	3.75	34.50	Add "TR-ND"	225.00/M
3302X	Add "CT-ND"	.45	3.75	34.50	Add "TR-ND"	225.00/M

◆ *RoHS Compliant*

SERIES 3260 — 1/4"(6.35mm) Square/Multiturn (11) Wirewound/Industrial/Sealed

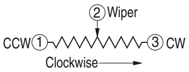

Dim. in mm

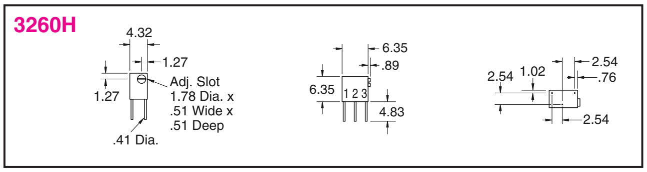

Characteristics:
• **Resistance Tolerance:** ±5% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 11 turns nominal • **Power Rating:** 85°C = 0.25W; 150°C = 0W • **Temperature Range:** -65°C ~ 150°C. • **Temperature Coefficient:** 70ppm/°C • **Load Life:** 1,000 hours 0.25W @ 85°C (2% DTR; ENR, 500Ω) • **Rotational Life:** 200 cycles (2% DTR; ENR, 500Ω) • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
100	3260H-101-ND	1.00
200	3260H-201-ND◆	0.94
500	3260H-501-ND◆	0.58
1K	3260H-102-ND	0.50
2K	3260H-202-ND◆	0.45
10K	3260H-103-ND◆	0.29
20K	3260H-203-ND◆	0.28

Series	Pricing 1	10	50
3260H	28.52	259.25	1114.78

◆ *RoHS Compliant*

SERIES 3386 — 3/8" (9.52mm) Square/Single-Turn Cermet/Industrial/Sealed

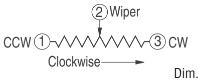

Dim. in mm

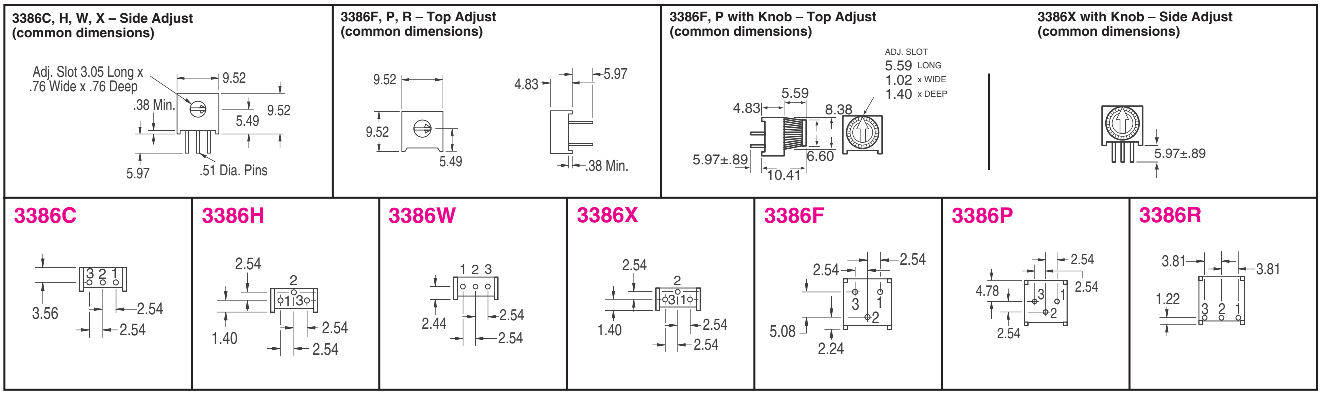

Res. (Ω)	3386C, H, W, X Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	3386F, P, R Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	3386F, P, X with Knob Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
50	3386C-500LF-ND◆	3386H-500LF-ND◆	3386W-500-ND†	3386X-500LF-ND◆	3386F-500LF-ND◆	3386F-500LF-ND◆	—	—	—	—
100	3386C-101LF-ND◆	3386H-101LF-ND◆	3386W-101LF-ND◆	3386X-101LF-ND◆	3386F-101LF-ND◆	3386P-101LF-ND◆	3386R-101LF-ND◆	—	—	—
200	3386C-201-ND†	3386H-201LF-ND◆	3386W-201LF-ND◆	3386X-201LF-ND◆	3386F-201LF-ND◆	3386P-201LF-ND◆	—	—	—	—
500	3386C-501LF-ND◆	3386H-501-ND†	3386W-501-ND†	3386X-501LF-ND◆	3386F-501LF-ND◆	3386P-501LF-ND◆	—	—	—	—
1K	3386C-102LF-ND◆	3386H-102LF-ND◆	3386W-102LF-ND◆	3386X-102-ND†	3386F-102LF-ND◆	3386P-102LF-ND◆	—	—	3386P-102TLF-ND◆	—
2K	3386C-202LF-ND◆	3386H-202LF-ND◆	3386W-202LF-ND◆	3386X-202LF-ND◆	3386F-202LF-ND◆	3386P-202LF-ND◆	3386R-202-ND†	—	—	—
5K	3386C-502LF-ND◆	3386H-502LF-ND◆	3386W-502LF-ND◆	3386X-502LF-ND◆	3386F-502LF-ND◆	3386P-502LF-ND◆	3386R-502LF-ND◆	3386F-502TLF-ND◆	3386P-502TLF-ND◆	—
10K	3386C-103LF-ND◆	3386H-103LF-ND◆	3386W-103LF-ND◆	3386X-103LF-ND◆	3386F-103-ND†	3386P-103LF-ND◆	3386R-103LF-ND◆	3386F-103TLF-ND◆	3386P-103TLF-ND◆	3386X-103TLF-ND◆
20K	3386C-203LF-ND◆	3386H-203LF-ND◆	3386W-203LF-ND◆	—	3386F-203LF-ND◆	3386P-203LF-ND◆	3386R-203LF-ND◆	3386F-203TLF-ND◆	3386P-203TLF-ND◆	—
25K	3386C-253-ND†	3386H-253-ND†	3386W-253LF-ND◆	3386X-253LF-ND◆	3386F-253LF-ND◆	3386P-253LF-ND◆	3386R-253LF-ND◆	—	—	—
50K	3386C-503-ND†	3386H-503LF-ND◆	3386W-503LF-ND◆	3386X-503LF-ND◆	3386F-503LF-ND◆	3386P-503LF-ND◆	—	—	3386P-503TLF-ND◆	—
100K	3386C-104LF-ND◆	3386H-104LF-ND◆	3386W-104LF-ND◆	3386X-104LF-ND◆	3386F-104LF-ND◆	3386P-104LF-ND◆	3386R-104LF-ND◆	—	3386P-104TLF-ND◆	—
200K	3386C-204LF-ND◆	3386H-204-ND†	—	3386X-204-ND†	3386F-204-ND†	3386P-204LF-ND◆	3386R-204-ND	—	—	—
250K	3386C-254LF-ND◆	—	3386W-254-ND†	—	3386F-254-ND†	3386P-254LF-ND◆	—	—	—	—
500K	3386C-504-ND†	3386H-504LF-ND◆	3386W-504LF-ND◆	3386X-504LF-ND◆	3386F-504LF-ND◆	3386P-504LF-ND◆	3386R-504LF-ND◆	—	—	—
1M	3386C-105LF-ND◆	3386H-105-ND†	3386W-105LF-ND◆	3386X-105LF-ND◆	3386F-105LF-ND◆	3386P-105LF-ND◆	3386R-105-ND†	—	—	—
2M	3386C-205-ND†	3386H-205-ND†	3386W-205LF-ND◆	3386X-205LF-ND◆	3386F-205LF-ND◆	3386P-205LF-ND◆	3386R-205-ND†	—	—	—

Characteristics:
• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 280° • **Power Rating (300V max.):** 85°C = 0.5W; 125°C = 0W • **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.5W @ 70°C (3% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Mechanical Angle:** 310° nominal • **Torque:** 5.0 oz-inch maximum • **Stop Strength:** 15.0 oz-inch minimum

Series	Pricing 1	10	50
3386C/3386R	1.43	13.00	55.90
3386F/3386H/3386P/3386W/3386X	1.29	11.75	50.53
3386F/3386P/3386X (with Knob)	2.06	15.75	69.38

◆ *RoHS Compliant* † For ***RoHS Compliant*** Part Number change -ND to LF-ND.

SERIES 3009 — 3/4" (19.05mm) Rectangular/ Multiturn (15) Cermet/ Industrial/ Sealed

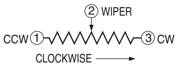

Dim. in mm

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Travel:** 15 turns nominal • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.75W @ 70°C (4% ΔTR) • **Rotational Life:** 200 cycles (3% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

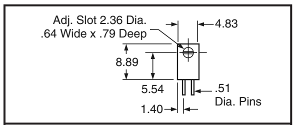

3009P

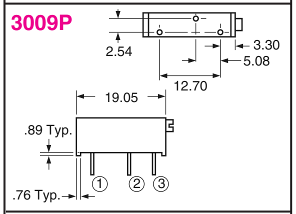

3009Y

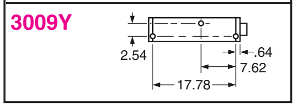

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	3009P-101LF-ND◆	—
200	3009P-201LF-ND◆	3009Y-201-ND
500	3009P-501LF-ND◆	3009Y-501-ND†
1K	3009P-102LF-ND◆	3009Y-102LF-ND◆
2K	3009P-202LF-ND◆	3009Y-202LF-ND◆
5K	3009P-502LF-ND◆	3009Y-502LF-ND◆
10K	3009P-103LF-ND◆	3009Y-103LF-ND◆
20K	3009P-203LF-ND◆	3009Y-203LF-ND◆
25K	3009P-253LF-ND◆	—
50K	3009P-503LF-ND◆	3009Y-503-ND†
100K	3009P-104LF-ND◆	3009Y-104-ND†
200K	3009P-204LF-ND◆	—
500K	3009P-504LF-ND◆	3009Y-504-ND†
1M	3009P-105LF-ND◆	3009Y-105-ND

Series	Pricing 1	10	50
3009P/3009Y	2.72	24.75	106.43

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to LF-ND

SERIES 3266 — 1/4" (6.35mm) Square/ Multiturn (12) Cermet/Industrial/Sealed

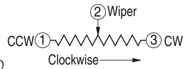

• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 12 turns nominal • **Power Rating (300 volts maximum):** 70°C - 0.25 watt; 150°C - 0 watt • **Temperature Range:** –55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.25 watt @ 70°C (3% ΔTR; CRV, 3%) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Torque:** 3.0 oz-in. maximum • **Mechanical Stops:** Wiper idles

3266W

Dim. in mm

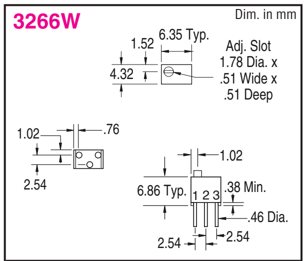

3266X

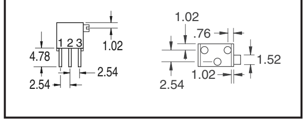

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
10	3266W-100LF-ND◆	3266X-100LF-ND◆
20	3266W-200LF-ND◆	3266X-200LF-ND◆
50	3266W-500LF-ND◆	3266X-500LF-ND◆
100	3266W-101LF-ND◆	3266X-101LF-ND◆
200	3266W-201LF-ND◆	3266X-201-ND†
500	3266W-501LF-ND◆	3266X-501LF-ND◆
1K	3266W-102LF-ND◆	3266X-102LF-ND◆
2K	3266W-202LF-ND◆	3266X-202LF-ND◆
5K	3266W-502LF-ND◆	3266X-502LF-ND◆
10K	3266W-103LF-ND◆	3266X-103LF-ND◆
20K	3266W-203LF-ND◆	3266X-203LF-ND◆
25K	3266W-253LF-ND◆	3266X-253-ND†
50K	3266W-503LF-ND◆	3266X-503LF-ND◆
100K	3266W-104LF-ND◆	3266X-104LF-ND◆
200K	3266W-204LF-ND◆	3266X-204LF-ND◆
250K	3266W-254LF-ND◆	3266X-254-ND†
500K	3266W-504LF-ND◆	3266X-504-ND†
1M	3266W-105LF-ND◆	3266X-105-ND†

Series	Pricing 1	10	50
3266W/3266X	3.58	32.50	139.75

◆ ***RoHS Compliant***
† For ***RoHS Compliant*** Part Number change -ND to LF-ND

SERIES 3345 — 1/2" (12.70mm) Round/Single-Turn Wirewound/Industrial/Sealed

RoHS COMPLIANT

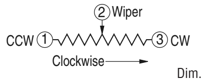

Dim. in mm

3345P

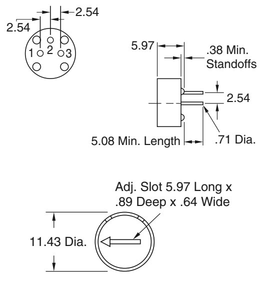

Features: • Industrial wirewound. • 1.0 watt power rating at 70°C **Characteristics**: • **Resistance Tolerance:** ±5% standard **Adjustment Angle:** 280° nominal **Power Rating:** 70°C — 1 watt; 150°C — 0 watt **Temperature Range:** –55°C ~ 150°C **Temperature Coefficient:** ±50ppm/°C **Load Life:** 1,000 hours 1 watt @ 70°C **Rotational Life:** 200 cycles (2% ΔTR; ENR, 500Ω) **Mechanical Angle:** 310° nominal **Torque:** 5.0 oz-inch maximum **Stop Strength:** 15 oz-inch minimum

Res. (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
50	3345P-500-ND	0.58
100	3345P-101-ND	0.49
200	3345P-201-ND	0.49
500	3345P-501-ND	0.38
1K	3345P-102-ND	0.30
2K	3345P-202-ND	0.24
5K	3345P-502-ND	0.18
10K	3345P-103-ND	0.14
20K	3345P-203-ND	0.13

Series	Pricing 1	10	50
3345P	9.54	86.75	373.03

SERIES 3319 — 9mm Round/Single-Turn/Carbon/ Open Frame

Characteristics: • **Resistance Tolerance:** ±25% standard • **Contact Resistance Variation:** 3% maximum • **Resolution:** Infinite • **Adjustment Angle:** 235° nominal • **Power Rating (200V maximum):** 70°C = 0.2W • **Temperature Range:** -25°C ~ 100°C • **Temperature Coefficient:** ±1,000ppm/°C

Dim. in mm

3319P-1 – Top Adjust

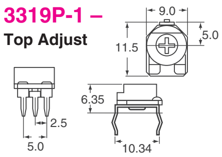

3319W-1 – Side Adjust

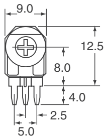

3319W-2 – Both Sides Adjust/Cross Slot

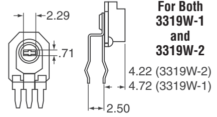

Series	Resistance (Ω)	Digi-Key Part No.	Pricing 1	10	50
3319P-1	100	3319P-101-ND◆	.41	2.93	12.83
	200	3319P-201-ND	.41	2.93	12.83
	1K	3319P-102-ND◆	.41	2.93	12.83
	5K	3319P-502-ND◆	.41	2.93	12.83
	10K	3319P-103-ND	.41	2.93	12.83
	100K	3319P-104-ND◆	.41	2.93	12.83
	200K	3319P-204-ND	.41	2.93	12.83
3319W-1	10K	3319W-1-103-ND◆	.36	2.60	11.40
3319W-2	5K	3319W-502-ND◆	.36	2.60	11.40
	10K	3319W-103-ND	.36	2.60	11.40
	100K	3319W-104-ND◆	.36	2.60	11.40

◆ ***RoHS Compliant***

SERIES 3306 — 6mm Round/Single-Turn Cermet/Industrial/Open Frame

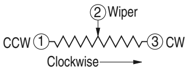

3306F

Dim. in mm

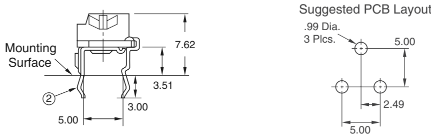

3306K

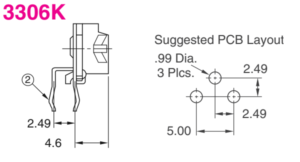

3306W

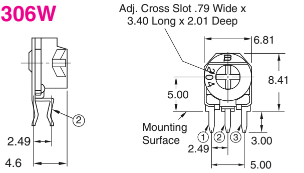

3306P

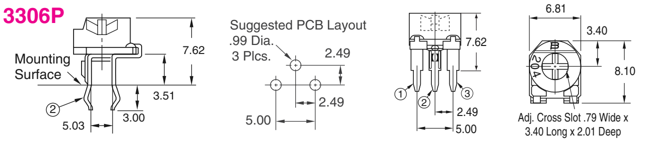

Characteristics:
• Cross slot rotor design suitable for automatic adjustment equipment. • Board retention feature. • Dust resistant/splash resistant cover. • Front and top adjust styles. **Resistance Tolerance:** ±25% standard **Adjustment Angle:** 215° nominal **Power Rating** (100 volts maximum): 70°C — 0.2 watt **Temperature Range:** -25°C ~ 100°C **Temperature Coefficient:** ±250ppm/°C **Load Life:** 1,000 hours 0.2 watt @ 70°C (5% ΔTR) **Torque** (Operating): 4.5 oz-inch maximum **Stop Strength:** 6.5 oz-inch minimum

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3306F-101-ND◆	3306K-101-ND	3306P-101-ND◆	3306W-101-ND◆
200	3306F-201-ND◆	3306K-201-ND	3306P-201-ND	3306W-201-ND
500	3306F-501-ND◆	3306K-501-ND	3306P-501-ND◆	3306W-501-ND
1K	3306F-102-ND◆	3306K-102-ND	3306P-102-ND	3306W-102-ND
2K	3306F-202-ND◆	3306K-202-ND◆	3306P-202-ND◆	3306W-202-ND◆
5K	3306F-502-ND◆	3306K-502-ND◆	3306P-502-ND◆	3306W-502-ND◆
10K	3306F-103-ND◆	3306K-103-ND	3306P-103-ND◆	3306W-103-ND◆
20K	3306F-203-ND◆	3306K-203-ND	3306P-203-ND◆	3306W-203-ND◆
50K	3306F-503-ND◆	3306K-503-ND◆	3306P-503-ND◆	3306W-503-ND◆
100K	3306F-104-ND	3306K-104-ND	3306P-104-ND◆	3306W-104-ND◆
200K	3306F-204-ND◆	3306K-204-ND◆	3306P-204-ND◆	3306W-204-ND◆
500K	3306F-504-ND	3306K-504-ND◆	3306P-504-ND◆	3306W-504-ND◆
1M	3306F-105-ND◆	3306K-105-ND	3306P-105-ND◆	3306W-105-ND

Series	Pricing 1	10	100
3306F / 3306K / 3306P / 3306W	.71	5.30	49.50

◆ ***RoHS Compliant***

BOURNS Trimmer Potentiometers

SERIES 3292 — 3/8" (9.52mm) Square/Multiturn (25) Cermet/Industrial/Sealed

Dim. in mm

3292W

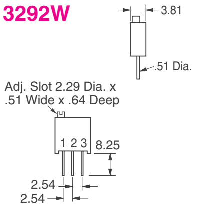

3292P

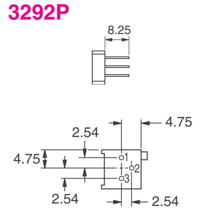

3292X

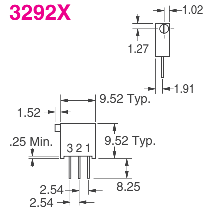

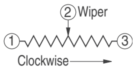

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 25 turns nominal • **Power Rating** (400 volts maximum): 85°C — 0.5 watt; 150°C — 0 watt. • **Temperature Range:** –65°C ~ 150°C. • **Temperature Coefficient:** ±100 ppm/°C. • **Load Life:** 1,000 hours 0.5 watt @ 85°C (2% ΔTR; CRV, 3% or 3Ω, whichever is greater). • **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3Ω, whichever is greater). • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles.

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	—	3292W-101-ND†	3292X-101-ND
200	—	3292W-201-ND†	3292X-201LF-ND◆
500	—	3292W-501-ND†	3292X-501LF-ND◆
1K	3292P-102-ND	3292W-102LF-ND◆	3292X-102LF-ND◆
2K	—	3292W-202-ND†	3292X-202LF-ND◆
5K	—	3292W-502LF-ND◆	3292X-502LF-ND◆
10K	3292P-103-ND†	3292W-103LF-ND◆	3292X-103-ND†
20K	3292P-203-ND	3292W-203-ND†	3292X-203-ND†
50K	—	3292W-503LF-ND◆	3292X-503LF-ND◆
100K	—	3292W-104LF-ND◆	—
200K	3292P-204LF-ND◆	3292W-204LF-ND◆	—
500K	—	3292W-504LF-ND◆	—
1M	—	3292W-105-ND†	3292X-105-ND

Series	Pricing 1	10	50
3292P/3292W/3292X	15.51	141.00	606.30

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to LF-ND.

SERIES 3299 — 3/8" (9.52mm) Square/Multiturn (25) Cermet/Industrial/Sealed

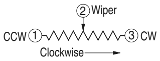

Common Dimensions

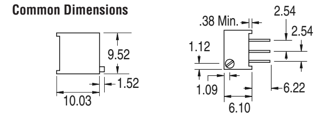

3299X

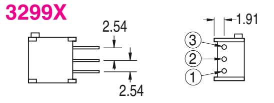

3299P

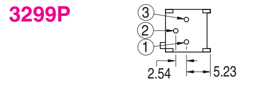

3299Y

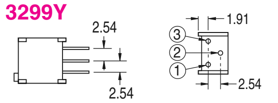

3299W

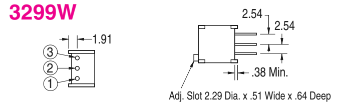

3299Z

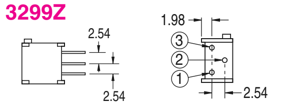

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500vdc. 1,000MΩ minimum • **Effective Travel:** 25 turns nominal • **Power Rating** (300 volts maximum): 70°C — 0.5 watt; 125°C — 0 watt. • **Temperature Range:** –55°C ~ 125°C. • **Temperature Coefficient:** ±100ppm/°C. • **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater). **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater). • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles.

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3299P-100LF-ND◆	3299W-100LF-ND◆	3299X-100LF-ND◆	3299Y-100LF-ND◆	3299Z-100-ND†
20	3299P-200-ND†	—	3299X-200LF-ND◆	3299Y-200LF-ND◆	—
50	3299P-500-ND	3299W-500LF-ND◆	3299X-500-ND	3299Y-500-ND†	—
100	3299P-101LF-ND◆	3299W-101LF-ND◆	3299X-101LF-ND◆	3299Y-101LF-ND◆	3299Z-101-ND†
200	3299P-201-ND†	3299W-201-ND†	3299X-201LF-ND◆	3299Y-201LF-ND◆	—
500	3299P-501LF-ND◆	3299W-501LF-ND◆	3299X-501LF-ND◆	3299Y-501LF-ND◆	3299Z-501LF-ND◆
1K	3299P-102LF-ND◆	3299W-102LF-ND◆	3299X-102LF-ND◆	3299Y-102LF-ND◆	3299Z-102LF-ND◆
2K	3299P-202LF-ND◆	3299W-202LF-ND◆	3299X-202-ND†	3299Y-202LF-ND◆	3299Z-202LF-ND◆
5K	3299P-502-ND†	3299W-502LF-ND◆	3299X-502LF-ND◆	3299Y-502LF-ND◆	3299Z-502LF-ND◆
10K	3299P-103LF-ND◆	3299W-103LF-ND◆	3299X-103LF-ND◆	3299Y-103LF-ND◆	3299Z-103LF-ND◆
20K	3299P-203LF-ND◆	3299W-203LF-ND◆	3299X-203LF-ND◆	3299Y-203LF-ND◆	3299Z-203LF-ND◆
25K	3299P-253-ND†	3299W-253LF-ND◆	—	3299Y-253LF-ND◆	—
50K	3299P-503-ND†	3299W-503LF-ND◆	3299X-503LF-ND◆	3299Y-503-ND†	3299Z-503-ND†
100K	3299P-104LF-ND◆	3299W-104LF-ND◆	3299X-104LF-ND◆	3299Y-104LF-ND◆	3299Z-104LF-ND◆
200K	3299P-204LF-ND◆	3299W-204LF-ND◆	3299X-204-ND†	3299Y-204LF-ND◆	3299Z-204LF-ND◆
250K	—	3299W-254LF-ND◆	3299X-254-ND†	3299Y-254LF-ND◆	—
500K	3299P-504-ND†	3299W-504LF-ND◆	3299X-504-ND†	3299Y-504LF-ND◆	—
1M	3299P-105LF-ND◆	3299W-105LF-ND◆	3299X-105LF-ND◆	3299Y-105LF-ND◆	3299Z-105LF-ND◆
2M	—	3299W-205LF-ND◆	—	3299Y-205LF-ND◆	3299Z-205LF-ND◆
5M	—	3299W-505LF-ND◆	3299X-505LF-ND◆	—	—

Series	Pricing 1	10	50
3299P/3299Z	3.14	28.50	122.55
3299W/3299X/3299Y	2.92	26.50	113.95

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to LF-ND.

SERIES 3296 — 3/8" (9.52mm) Square/Multiturn (25) Cermet/Industrial/Sealed

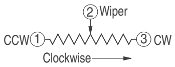

Common Dimensions

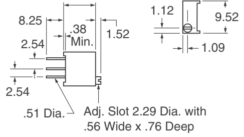

3296P

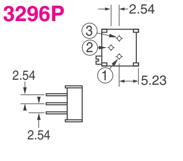

3296W

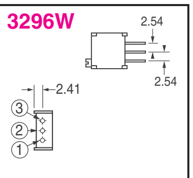

3296X

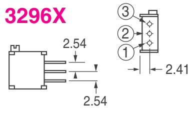

3296Y

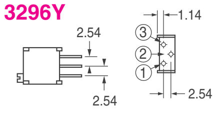

3296Z

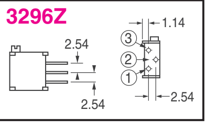

Characteristics • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 25 turns nominal • **Power Rating** (300 volts maximum): 70°C — 0.5 watt; 125°C — 0 watt. • **Temperature Range:** -55°C ~ 125°C. • **Temperature Coefficient:** ±100 ppm/°C. • **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater). • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater). • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles.

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3296P-100LF-ND◆	3296W-100LF-ND◆	3296X-100LF-ND◆	3296Y-100LF-ND◆	—
20	3296P-200-ND†	3296W-200LF-ND◆	3296X-200LF-ND◆	3296Y-200LF-ND◆	3296Z-200-ND†
50	3296P-500LF-ND◆	3296W-500LF-ND◆	3296X-500LF-ND◆	3296Y-500LF-ND◆	3296Z-500-ND†
100	3296P-101-ND†	3296W-101LF-ND◆	3296X-101LF-ND◆	3296Y-101-ND†	3296Z-101LF-ND◆
200	3296P-201-ND†	3296W-201LF-ND◆	3296X-201LF-ND◆	3296Y-201LF-ND◆	3296Z-201LF-ND◆
500	3296P-501LF-ND◆	3296W-501LF-ND◆	3296X-501LF-ND◆	3296Y-501LF-ND◆	3296Z-501-ND†
1K	3296P-102LF-ND◆	3296W-102LF-ND◆	3296X-102LF-ND◆	3296Y-102LF-ND◆	3296Z-102LF-ND◆
2K	3296P-202LF-ND◆	3296W-202LF-ND◆	3296X-202LF-ND◆	3296Y-202LF-ND◆	3296Z-202LF-ND◆
5K	3296P-502LF-ND◆	3296W-502LF-ND◆	3296X-502LF-ND◆	3296Y-502LF-ND◆	3296Z-502LF-ND◆
10K	3296P-103LF-ND◆	3296W-103LF-ND◆	3296X-103LF-ND◆	3296Y-103LF-ND◆	3296Z-103-ND†
20K	3296P-203LF-ND◆	3296W-203LF-ND◆	3296X-203LF-ND◆	3296Y-203LF-ND◆	3296Z-203LF-ND◆
25K	—	3296W-253LF-ND◆	3296X-253LF-ND◆	3296Y-253LF-ND◆	3296Z-253-ND†
50K	3296P-503LF-ND◆	3296W-503LF-ND◆	3296X-503LF-ND◆	3296Y-503LF-ND◆	3296Z-503LF-ND◆
100K	3296P-104LF-ND◆	3296W-104LF-ND◆	3296X-104LF-ND◆	3296Y-104LF-ND◆	3296Z-104-ND†
200K	3296P-204LF-ND◆	3296W-204LF-ND◆	3296X-204LF-ND◆	3296Y-204LF-ND◆	3296Z-204-ND†
250K	—	3296W-254LF-ND◆	3296X-254LF-ND◆	3296Y-254-ND†	3296Z-254-ND
500K	3296P-504LF-ND◆	3296W-504LF-ND◆	3296X-504LF-ND◆	3296Y-504-ND†	3296Z-504-ND†
1M	3296P-105-ND†	3296W-105-ND†	3296X-105LF-ND◆	3296Y-105-ND†	3296Z-105LF-ND◆
2M	3296P-205-ND†	3296W-205LF-ND◆	3296X-205-ND†	3296Y-205LF-ND◆	3296Z-205-ND†
5M	3296P-505-ND†	3296W-505LF-ND◆	3296X-505-ND†	—	3296Z-505-ND

Series	Pricing 1	10	50
3296P/3296Z	2.70	24.50	105.35
3296W/3296X/3296Y	2.50	22.75	97.83

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to LF-ND.

SERIES 3005 — 3/4" (19.05mm) Rectangular/Multiturn (20) Wirewound/Industrial/Sealed

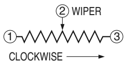

Sealed to prevent contamination from fluxing, soldering and cleaning. **Characteristics:** • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Travel:** 20 turns nominal • **Power Rating:** 70°C — 1 watt; 125°C — 0 watt • **Temperature Range:** –65°C ~ 125°C • **Temperature Coefficient:** ±50ppm/°C • **Load Life:** 1,000 hours 1 watt @ 70°C (3% ΔTR) • **Rotational Life:** 200 cycles (4% ΔTR) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

3005P

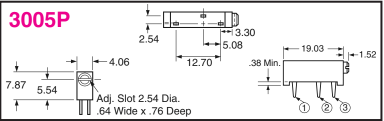

Res. (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
200	3005P-201-ND	0.7
500	3005P-501-ND	0.5
1K	3005P-102-ND◆	0.5
2K	3005P-202-ND	0.4
5K	3005P-502-ND◆	0.3
10K	3005P-103-ND◆	0.3
20K	3005P-203-ND◆	0.2

Series	Pricing 1	10	50
3005P	11.22	102.00	438.60

◆ ***RoHS Compliant***

SERIES TC73 — Surface Mount 3mm Single-Turn Top Adjust Carbon

Digi-Reel®

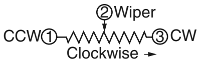

Characteristics: • **Resistance Tolerance:** ±30% • **Adjustment Angle:** 260° • **Power Rating:** .05W • **Temperature Range:** - 25°C ~ 85°C • **Temperature Coefficient:** ±250 ppm/°C • **Rotational Life:** 20 turns • **Rotational Torque:** 10-150g-cm maximum

TC73X

Dim. in mm

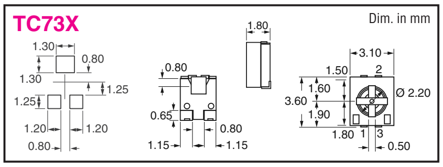

Res. (Ω)	Digi-Key Part No.
500	TC73X-501E☐☐-ND◆
1K	TC73X-102E☐☐-ND◆
2K	TC73X-202E☐☐-ND◆
5K	TC73X-502E☐☐-ND◆
10K	TC73X-103E☐☐-ND◆
20K	TC73X-203E☐☐-ND

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 2,000
TC73X	Add "CT-ND"	.20	1.65	14.40	Add "TR-ND"	100.00/M

◆ ***RoHS Compliant***

Trimmer Potentiometers

SERIES 3057 — 1-1/4" (31.75mm) Rectangular/ Multiturn (22) Wirewound/Industrial/Sealed

3057Y

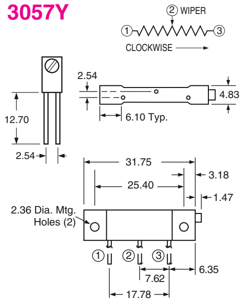

Characteristics: • **Resistance Tolerance:** ±5%Typical • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Travel:** 22 turns nominal • **Power Rating:** 70°C - 1 watt; 150°C - 0 watt • **Temp. Range:** -55°C ~ 150°C. • **Temp. Coefficient:** ±50ppm/°C **Load Life:** 1,000 hours 1 watt @ 70°C (2% ΔTR) • **Rotational Life:** 200 cycles (2% ΔTR) **Torque:** 5.0 oz-in. maximum • **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
200	3057Y-201-ND	0.86
500	3057Y-501-ND	0.89
1K	3057Y-102-ND	0.72
2K	3057Y-202-ND	0.58
5K	3057Y-502-ND	0.43
10K	3057Y-103-ND	0.34
20K	3057Y-203-ND	0.31

Series	Pricing 1	10	50
3057Y	19.06	173.25	744.98

SERIES 3310 — 9mm Square Panel Control Conductive Plastic, Sealed

3310C

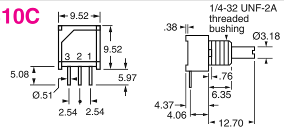

3310Y

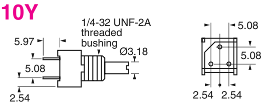

Features: • Conductive plastic • Linear • PC board and bushing mount • Plastic bushing and plastic shaft • Withstands typical industrial washing processes • Compact package saves board and panel space **Characteristics:** • **Standard Resistance Range (Linear):** 1KΩ to 1MΩ • **Total Resistance Tolerance (Linear Tapers):** ±20% • **Independent Linearity:** ±5% • **Absolute Minimum Resistance:** 2Ω maximum • **Effective Electrical Angle:** 270° ±15° • **Contact Resistance Variation:** 1% or 1Ω (whichever is greater) • **Dielectric Withstanding Voltage: (Sea Level)** 900VAC minimum; **(70,000 Feet)** 350 VAC minimum • **Insulation Resistance:** 1,000MΩ minimum • **Power Rating @ 70°C:** (Derate to 0 at 125°C - Voltage limited by power dissipation or 200VAC, whichever is less) 0.25 watts • **Stop Strength:** 5.65 nominal • **Mechanical Angle:** 300° nominal • **Torque (Running):** 3.53 nominal. • **Mounting hardware included**

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
1K	3310C-001-102L-ND◆	3310Y-001-102L-ND◆
2K	3310C-001-202-ND†	3310Y-001-202-ND†
5K	3310C-001-502L-ND◆	3310Y-001-502L-ND◆
10K	3310C-001-103L-ND◆	3310Y-001-103L-ND◆
20K	3310C-001-203L-ND◆	3310Y-001-203-ND†
50K	3310C-001-503L-ND◆	3310Y-001-503L-ND◆
100K	3310C-001-104L-ND◆	3310Y-001-104-ND†
200K	3310C-001-204L-ND◆	3310Y-001-204L-ND◆
500K	3310C-001-504L-ND◆	3310Y-001-504L-ND◆
1M	3310C-001-105L-ND◆	3310Y-001-105L-ND◆

Series	Pricing 1	10	50
3310C/3310Y	2.56	22.63	94.90

◆ ***RoHS Compliant***
† For ***RoHS Compliant*** Part Number change -ND to L-ND

SERIES 3252 — 1/2" (12.70mm) Square/Multiturn (25) Cermet/Industrial/Sealed

Common Dimensions

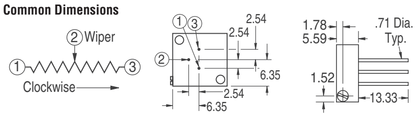

3252P

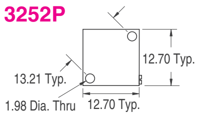

3252W

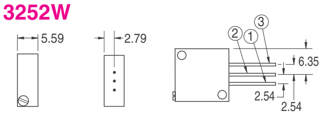

3252X

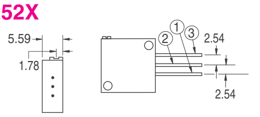

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 25 turns nominal • **Power Rating** (400 volts maximum): 85°C — 0.75 watt; 150°C — 0 watt • **Temperature Range:** –65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.75 watt @ 85°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3252P-101-ND	3252W-101-ND†	3252X-101-ND
200	3252P-201-ND	3252W-201LF-ND◆	—
500	3252P-501-ND†	3252W-501LF-ND◆	3252X-501-ND
1K	—	3252W-102-ND†	—
2K	—	3252W-202LF-ND◆	3252X-202LF-ND◆
5K	3252P-502-ND	3252W-502-ND†	3252X-502LF-ND◆
10K	3252P-103-ND	3252W-103LF-ND◆	3252X-103-ND†
20K	—	3252W-203LF-ND◆	—
50K	—	3252W-503LF-ND◆	—
100K	3252P-104-ND	3252W-104LF-ND◆	—
200K	3252P-204LF-ND◆	3252W-204LF-ND◆	—

Series	Pricing 1	10	50
3252P/3252W/3252X	14.44	131.25	564.38

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to LF-ND

SERIES 3262 — 1/4" (6.35mm) Square/ Multiturn (12) Cermet/Industrial/Sealed

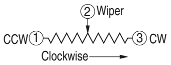

3262P

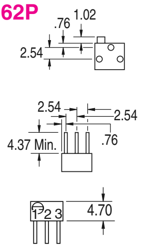

3262W

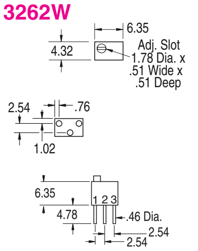

3262X

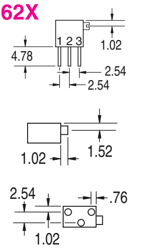

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 12 turns nominal • **Power Rating:** (300 volts maximum) 85°C — 0.25 watt; 150°C — 0 watt • **Temperature Range:** –65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.25 watt @ 85°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
20	—	3262W-200LF-ND◆	—
50	—	3262W-500-ND†	—
100	—	3262W-101LF-ND◆	3262X-101LF-ND◆
200	—	3262W-201LF-ND◆	—
500	3262P-501-ND	3262W-501LF-ND◆	3262X-501LF-ND◆
1K	3262P-102-ND†	3262W-102-ND†	3262X-102LF-ND◆
2K	—	3262W-202LF-ND◆	—
5K	3262P-502LF-ND◆	3262W-502-ND†	3262X-502-ND†
10K	3262P-103LF-ND◆	3262W-103LF-ND◆	3262X-103LF-ND◆
20K	—	3262W-203LF-ND◆	3262X-203LF-ND◆
25K	—	3262W-253LF-ND◆	3262X-253LF-ND◆
50K	3262P-503LF-ND◆	3262W-503-ND†	—
100K	3262P-104LF-ND◆	3262W-104LF-ND◆	3262X-104LF-ND◆
200K	3262P-204-ND	3262W-204LF-ND◆	—
250K	—	3262W-254LF-ND◆	—
500K	3262P-504-ND	3262W-504-ND†	3262X-504LF-ND◆
1M	3262P-105-ND†	3262W-105-ND†	3262X-105LF-ND◆

Series	Pricing 1	10	50
3262P/3262W/3262X	14.30	130.00	559.00

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to LF-ND

SERIES 3006 — 3/4" (19.05mm) Rectangular/Multiturn (15) Cermet/Industrial/Sealed

Common Dimensions

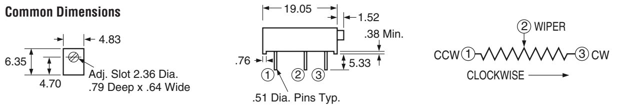

3006P

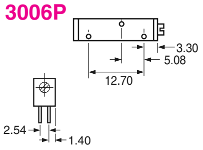

3006W

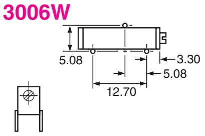

3006Y

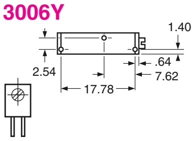

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum. • **Adjustment Angle:** 15 turns nominal • **Power Rating** (400 volts maximum): 70°C – 0.75 watt; 150°C – 0 watt • **Temperature Range:** –55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.75 watt @ 70°C (4% ΔTR) • **Rotational Life:** 200 cycles (3% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3006P-101LF-ND◆	3006W-101LF-ND◆	3006Y-101LF-ND◆
200	3006P-201LF-ND◆	3006W-201-ND†	3006Y-201LF-ND◆
500	3006P-501-ND†	3006W-501-ND†	3006Y-501LF-ND◆
1K	3006P-102LF-ND◆	3006W-102LF-ND◆	3006Y-102LF-ND◆
2K	3006P-202LF-ND◆	3006W-202LF-ND◆	3006Y-202LF-ND◆
5K	3006P-502LF-ND◆	3006W-502LF-ND◆	3006Y-502LF-ND◆
10K	3006P-103LF-ND◆	3006W-103LF-ND◆	3006Y-103LF-ND◆
20K	3006P-203LF-ND◆	3006W-203-ND†	3006Y-203LF-ND◆
25K	3006P-253LF-ND◆	—	3006Y-253-ND†
50K	3006P-503LF-ND◆	3006W-503LF-ND◆	3006Y-503LF-ND◆
100K	3006P-104LF-ND◆	3006W-104-ND†	3006Y-104-ND†
200K	3006P-204LF-ND◆	3006W-204LF-ND◆	3006Y-204LF-ND◆
250K	3006P-254LF-ND◆	—	3006Y-254LF-ND◆
500K	3006P-504LF-ND◆	3006W-504LF-ND◆	3006Y-504-ND†
1M	3006P-105-ND†	3006W-105LF-ND◆	—
2M	3006P-205LF-ND◆	—	3006Y-205-ND

Series	Pricing 1	10	50
3006P	1.73	15.75	67.73
3006W/3006Y	1.87	17.00	73.10

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to LF-ND

BOURNS Trimmer Potentiometers

SERIES 3314 — 4mm Square/Single-Turn Cermet/ Industrial/Sealed

Features: • Compatible with all surface mount soldering processes • Very low CRV — 1% • Standoffs facilitate boardwashing and mechanical stability **Characteristics:** • **Resistance Tolerance:** ±20% standard • **Insulation Resistance:** 500VDC 100MΩ minimum • **Adjustment Angle:** 210° nominal • **Soldering Heat:** 260°C, 10 seconds, TRS ±1% • **Power Rating (300V maximum):** 70°C = 0.25W; 125°C = 0W • **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** (@ 70°C Rated Power 1,000 hours) TRS ±3% • **Rotational Life:** 100 cycles TRS ±3% • **Mechanical Angle:** 240° nominal • **Torque:** 180g-cm. typical • **Stop Strength:** 300g-cm. typical

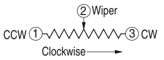

Dim. in mm

3314G

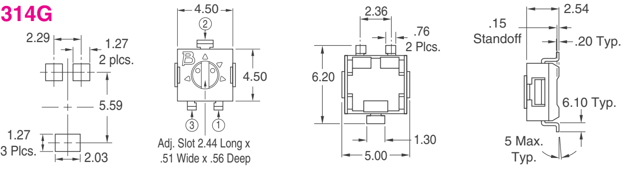

3314H ***NEW!***

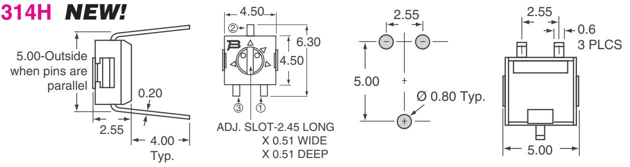

5.00-Outside when pins are parallel
0.20
2.55
4.00
Typ.
4.50
②
6.30
4.50
③ ①
ADJ. SLOT-2.45 LONG X 0.51 WIDE X 0.51 DEEP
2.55
5.00
Ø 0.80 Typ.
2.55
0.6
3 PLCS
5.00

3314J

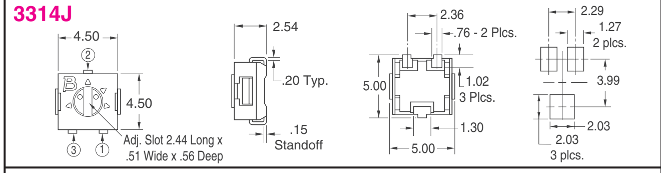

3314R ***NEW!***

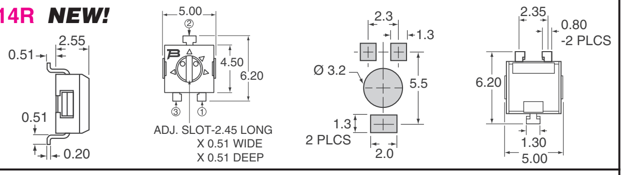

3314S-3

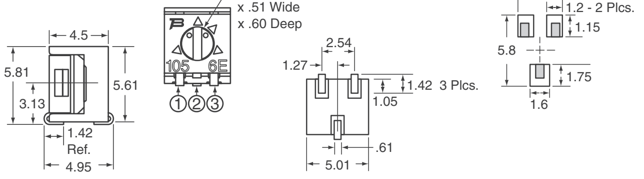

3314Z

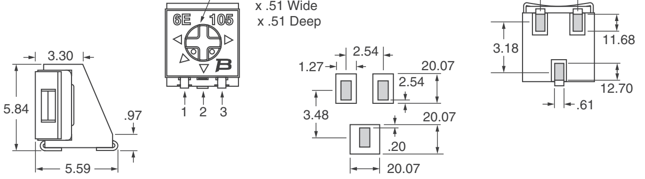

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3314G-1-100E□□-ND◆ ***NEW!***	3314H-1-100-ND◆‡ ***NEW!***	3314J-1-100E□□-ND◆ ***NEW!***	3314R-1-100E□□-ND◆ ***NEW!***	3314S-1-100E□□-ND◆ ***NEW!***	3314Z-1-100E□□-ND◆ ***NEW!***
20	3314G-1-200E□□-ND◆ ***NEW!***	3314H-1-200-ND◆‡ ***NEW!***	3314J-1-200E□□-ND◆ ***NEW!***	3314R-1-200E□□-ND◆ ***NEW!***	3314S-1-200E□□-ND◆ ***NEW!***	3314Z-1-200E□□-ND◆ ***NEW!***
50	3314G-1-500E□□-ND◆ ***NEW!***	3314H-1-500-ND◆‡ ***NEW!***	3314J-1-500E□□-ND◆ ***NEW!***	3314R-1-500E□□-ND◆ ***NEW!***	3314S-1-500E□□-ND◆ ***NEW!***	3314Z-1-500E□□-ND◆ ***NEW!***
100	3314G-101E□□-ND◆	3314H-1-101-ND◆‡ ***NEW!***	3314J-101E□□-ND◆	3314R-1-101E□□-ND◆ ***NEW!***	3314S-3-101E□□-ND◆	3314Z-101E□□-ND◆
200	3314G-201E□□-ND◆	3314H-1-201-ND◆‡ ***NEW!***	3314J-201E□□-ND◆	3314R-1-201E□□-ND◆ ***NEW!***	3314S-3-201E□□-ND◆	3314Z-201E□□-ND◆
500	3314G-501E□□-ND◆	—	3314J-501E□□-ND◆	3314R-1-501E□□-ND◆ ***NEW!***	3314S-3-501E□□-ND◆	3314Z-501E□□-ND
1K	3314G-102E□□-ND◆	3314H-1-102-ND◆‡ ***NEW!***	3314J-102E□□-ND◆	3314R-1-102E□□-ND◆ ***NEW!***	3314S-3-102E□□-ND◆	3314Z-102E□□-ND
2K	3314G-202E□□-ND◆	3314H-1-202-ND◆‡ ***NEW!***	3314J-202E□□-ND◆	3314R-1-202E□□-ND◆ ***NEW!***	3314S-3-202ECT-ND◆	3314Z-202E□□-ND◆
5K	3314G-502E□□-ND◆	3314H-1-502-ND◆‡ ***NEW!***	3314J-502E□□-ND◆	3314R-1-502E□□-ND◆ ***NEW!***	3314S-3-502E□□-ND◆	3314Z-502E□□-ND◆
10K	3314G-103E□□-ND◆	3314H-1-103-ND◆‡ ***NEW!***	3314J-103E□□-ND◆	3314R-1-103E□□-ND◆ ***NEW!***	3314S-3-103E□□-ND◆	3314Z-103E□□-ND◆
20K	3314G-203E□□-ND◆	3314H-1-203-ND◆‡ ***NEW!***	3314J-203E□□-ND◆	3314R-1-203E□□-ND◆ ***NEW!***	3314S-3-203E□□-ND◆	3314Z-203E□□-ND◆
25K	3314G-253E□□-ND◆	—	3314J-253E□□-ND◆	—	3314S-3-253E□□-ND◆	3314Z-253E□□-ND
50K	3314G-503E□□-ND◆	3314H-1-503-ND◆‡ ***NEW!***	3314J-503E□□-ND◆	3314R-1-503E□□-ND◆ ***NEW!***	3314S-3-503ECT-ND◆	3314Z-503E□□-ND◆
100K	3314G-104E□□-ND◆	3314H-1-104-ND◆‡ ***NEW!***	3314J-104E□□-ND◆	3314R-1-104E□□-ND◆ ***NEW!***	3314S-3-104E□□-ND◆	3314Z-104E□□-ND◆
200K	3314G-204E□□-ND◆	3314H-1-204-ND◆‡ ***NEW!***	3314J-204E□□-ND◆	3314R-1-204E□□-ND◆ ***NEW!***	3314S-3-204E□□-ND◆	3314Z-204E□□-ND◆
250K	3314G-254E□□-ND◆	3314H-1-254-ND◆‡ ***NEW!***	3314J-254E□□-ND◆	3314R-1-254E□□-ND◆ ***NEW!***	3314S-3-254E□□-ND◆	3314Z-254E□□-ND
500K	3314G-504E□□-ND◆	3314H-1-504-ND◆‡ ***NEW!***	3314J-504E□□-ND◆	3314R-1-504E□□-ND◆ ***NEW!***	3314S-3-504E□□-ND◆	3314Z-504E□□-ND◆
1M	3314G-105E□□-ND◆	3314H-1-105-ND◆‡ ***NEW!***	3314J-105E□□-ND◆	3314R-1-105E□□-ND◆ ***NEW!***	3314S-3-105E□□-ND◆	3314Z-105E□□-ND
2M	3314G-205E□□-ND◆	3314H-1-205-ND◆‡ ***NEW!***	3314J-205E□□-ND◆	3314R-1-205E□□-ND◆ ***NEW!***	3314S-3-205E□□-ND◆	3314Z-205E□□-ND

		Cut Tape Pricing						Tape and Reel Pricing				
Series	Part No.	1	5	10	50	100	Part No.	200	500	600	1,000	1,500
3314G/3314G-1	Add “CT”-ND	1.95	9.00	16.50	—	156.00	Add “TR”-ND	—	489.00	—	—	900.00/M
3314H-1‡	—	1.65	—	15.00	64.47	103.26	—	—	—	—	—	—
3314J/3314J-1	Add “CT”-ND	1.95	9.00	16.50	—	156.00	Add “TR”-ND	—	489.00	—	—	900.00/M
3314R-1	Add “CT”-ND	2.28	10.50	19.25	—	182.00	Add “TR”-ND	—	570.50	—	1050.00	—
3314S-1/3314S-3	Add “CT”-ND	2.15	9.90	18.15	—	171.60	Add “TR”-ND	244.20	—	649.20	—	—
3314Z/3314Z-1	Add “CT”-ND	2.15	9.90	18.15	—	171.60	Add “TR”-ND	244.20	—	649.20	—	—

◆ ***RoHS Compliant*** ‡ Bulk

SERIES 3339 — 5/16" (7.95mm) Round/Four-Turn Cermet/Industrial/Sealed

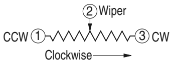

Features: • Unique planetary drive offers precise wiper setting of a multiturn in a single-turn package size • Top and side adjust styles **Characteristics:** • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 4 turns nominal • **Power Rating (300 volts maximum):** 85°C = 0.5W; 150°C = 0W • **Temperature Range:** –55°C ~ 150°C • **Temperature Coefficient:** ±100 ppm/°C • **Load Life:** 1,000 hours 0.5 watt @ 85°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Rotational Life:** 200 cycles (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Dim. in mm

3339H

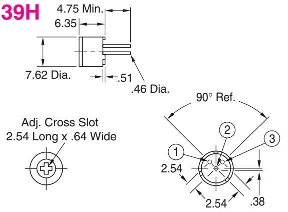

3339P

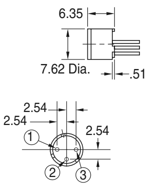

3339W

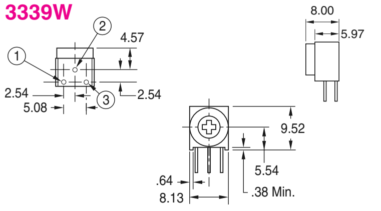

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
50	3339H-500-ND	3339P-500LF-ND◆	—
100	3339H-101-ND†	3339P-101-ND†	3339W-101-ND
200	3339H-201-ND†	—	—
500	3339H-501-ND	3339P-501-ND†	3339W-501-ND†
1K	3339H-102LF-ND◆	3339P-102LF-ND◆	—
2K	—	3339P-202-ND†	3339W-202-ND†
5K	3339H-502LF-ND◆	3339P-502LF-ND◆	3339W-502-ND†
10K	3339H-103LF-ND◆	3339P-103LF-ND◆	3339W-103LF-ND◆
20K	3339H-203LF-ND◆	3339P-203LF-ND◆	3339W-203LF-ND◆
50K	3339H-503LF-ND◆	3339P-503-ND†	—
100K	3339H-104LF-ND◆	3339P-104LF-ND◆	3339W-104-ND†
500K	3339H-504LF-ND◆	3339P-504LF-ND◆	3339W-504-ND†
1M	3339H-105LF-ND◆	3339P-105-ND†	—

	Pricing		
Series	1	10	50
3339H/3339P	5.28	48.00	206.40
3339W	7.59	69.00	296.70

◆ ***RoHS Compliant***
† For ***RoHS Compliant*** Part Number change -ND to LF-ND

Trimmer Potentiometers

SERIES TC33X — 3mm SMD Trimming Potentiometer

Characteristics: • **Resistance Tolerance:** ±25% standard • **Contact Resistance Variation:** 5% maximum • **Resolution:** Essentially Infinite • **Adjustment Angle:** 260° ±20° • **Power Rating (50VDC maximum):** 70°C = 0.1W • **Temperature Range:** -40°C ~ 120°C • **Temperature Coefficient:** ±250ppm/°C

Dim. in mm

Res. (Ω)	Digi-Key Part No.
100	TC33X-101E☐☐-ND
1K	TC33X-102E☐☐-ND
2K	TC33X-202E☐☐-ND◆
5K	TC33X-502E☐☐-ND◆
10K	TC33X-103E☐☐-ND◆
50K	TC33X-503E☐☐-ND◆
100K	TC33X-104E☐☐-ND

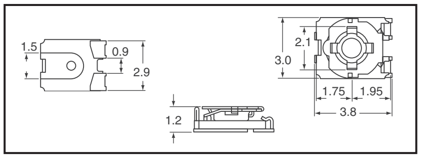

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape and Reel Pricing 2,500
TC33X	Add "CT"-ND	.20	1.65	14.40	Add "TR"-ND	90.00/M

◆ *RoHS Compliant*

SERIES 3318 — 6mm Square/ Single-Turn/Carbon/Open Frame

Characteristics:
• **Resistance Tolerance:** ±30% • **Contact Resistance Variation:** 10% maximum • Resolution: Infinite • **Adjustment Angle:** 210° ±20° • **Power Rating:** 100-500KΩ = 50V; >500KΩ = 25V; 50°C = 0.1W • **Temperature Range:** -25°C ~ 100°C • **Temperature Coefficient:** ±1,000ppm/°C

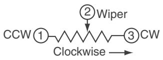

Dim. in mm

3318F —
Top Adjust

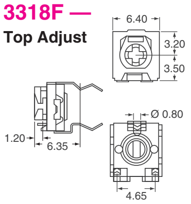

3318K —
Side Adjust

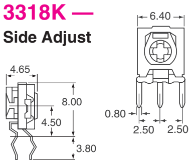

Series	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100
3318F	500	3318F-501-ND◆	.34	2.44	10.69
	1.0K	3318F-102-ND◆	.35	2.10	14.63
	2.0K	3318F-202-ND◆	.34	2.44	10.69
	5.0K	3318F-502-ND◆	.35	2.10	14.63
	10K	3318F-103-ND◆	.35	2.10	14.63
	20K	3318F-203-ND◆	.35	2.10	14.63
	1.0M	3318F-105-ND◆	.35	2.10	14.63
3318K	10K	3318K-103-ND	.34	2.44	10.69
	5.0K	3318K-502-ND◆	.35	2.10	14.63
	1.0M	3318K-105-ND◆	.35	2.10	14.63

◆ *RoHS Compliant*

SERIES 3250 — 1/2" (12.70mm) Square/ Multiturn (25) Wirewound/Sealed

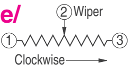

Characteristics: • **Resistance Tolerance:** ±5% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Travel:** 25 turns nominal • **Power Rating:** 85°C = 1W; 150°C = 0W • **Temperature Range:** -65°C ~ 150°C • **Temperature Coefficient:** ±70 ppm/°C • **Load Life:** 1,000 hours 1 watt @ 85°C (2% ΔTR; ENR, 500Ω) • **Rotational Life:** 200 cycles (2% ΔTR; ENR, 500Ω) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

3250W

Dim. in mm

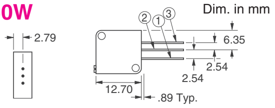

Resolution (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
200	3250W-201-ND	0.70
500	3250W-501 ND	0.30
5K	3250W-502-ND	0.25
10K	3250W-103-ND	0.19
20K	3250W-203-ND	0.16

Series	Pricing 1	10	50
3250W	14.55	132.25	568.68

NEW! SERIES 3269 — 1/4" (6.35mm) Square SMD Trimming Potentiometer

Characteristics: • **Resistance Tolerance:** ±10% standard • **Contact Resistance Variation:** 3.0% or 3Ω maximum • **Resolution:** Infinite • **Insulation Resistance:** 500VDC; 1,000MΩ minimum • **Effective Travel:** 12 turns nominal • **Power Rating (300 volts maximum):** 85°C = 0.25W, 150°C = 0W • **Temperature Range:** -65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.25W @ 85°C (3% ΔTR; 3% or 3Ω, whichever is greater, CRV) • **Rotational Life:** 200 cycles (2% ΔTR; 3% or 3Ω, whichever is greater, CRV) • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Dim. in mm

3269P

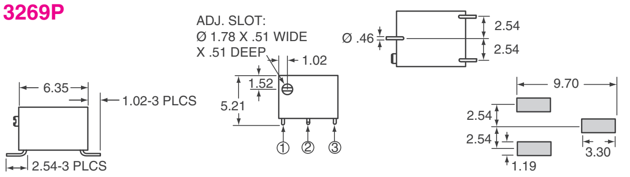

3269W

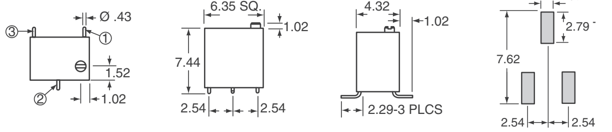

3269X

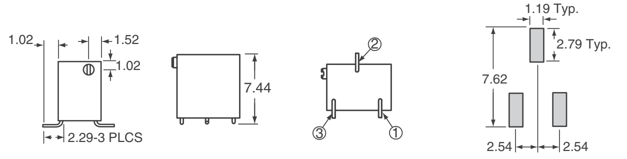

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3269P-1-100LF-ND	3269W-1-100LF-ND	3269X-1-100LF-ND
20	3269P-1-200LF-ND	3269W-1-200LF-ND	3269X-1-200LF-ND
50	3269P-1-500LF-ND	3269W-1-500LF-ND	3269X-1-500LF-ND
100	3269P-1-101LF-ND	3269W-1-101LF-ND	3269X-1-101LF-ND
200	3269P-1-201LF-ND	3269W-1-201LF-ND	3269X-1-201LF-ND
500	3269P-1-501LF-ND	3269W-1-501LF-ND	3269X-1-501LF-ND
1K	3269P-1-102LF-ND	3269W-1-102LF-ND	3269X-1-102LF-ND
2K	3269P-1-202LF-ND	3269W-1-202LF-ND	3269X-1-202LF-ND
5K	3269P-1-502LF-ND	3269W-1-502LF-ND	3269X-1-502LF-ND
10K	3269P-1-103LF-ND	3269W-1-103LF-ND	3269X-1-103LF-ND
20K	3269P-1-203LF-ND	3269W-1-203LF-ND	3269X-1-203LF-ND
25K	3269P-1-253LF-ND	3269W-1-253LF-ND	3269X-1-253LF-ND
50K	3269P-1-503LF-ND	3269W-1-503LF-ND	3269X-1-503LF-ND
100K	3269P-1-104LF-ND	3269W-1-104LF-ND	3269X-1-104LF-ND
200K	3269P-1-204LF-ND	3269W-1-204LF-ND	3269X-1-204LF-ND
250K	3269P-1-254LF-ND	3269W-1-254LF-ND	3269X-1-254LF-ND
500K	3269P-1-504LF-ND	3269W-1-504LF-ND	3269X-1-504LF-ND
1M	3269P-1-105LF-ND	3269W-1-105LF-ND	3269X-1-105LF-ND

Series	Pricing 1	10	50	100
3269P/3269W/3269X	4.43	40.25	173.00	277.08

SERIES 3309 — 9mm Round/Single-Turn Cermet/Industrial/Open Frame

Characteristics:

• **Resistance Tolerance:** ±25% standard • **Adjustment Angle:** 235° nominal • **Power Rating (250 volts maximum):** 70°C = 0.5 Watt • **Temperature Range:** -25°C ~ 100°C • **Temperature Coefficient:** ±250ppm/°C • **Load Life:** 1,000 hours 0.5 watt @ 70°C (5% ΔTR) • **Torque:** 5.0 oz-inch maximum • **Stop Strength:** 11.0 oz-inch minimum

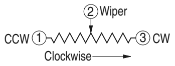

Dim. in mm

3309P

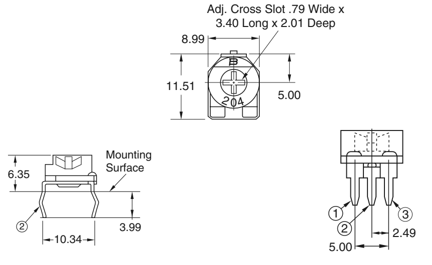

3309W

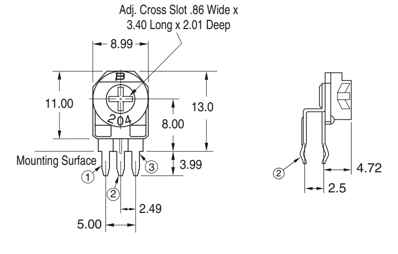

Resolution (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	3309P-101-ND◆	3309W-101-ND◆
200	3309P-201-ND◆	3309W-201-ND
500	3309P-501-ND◆	3309W-501-ND
1K	3309P-102-ND◆	3309W-102-ND◆
2K	3309P-202-ND◆	3309W-202-ND◆
5K	3309P-502-ND◆	3309W-502-ND◆
10K	3309P-103-ND	3309W-103-ND◆
20K	3309P-203-ND◆	3309W-203-ND◆
50K	3309P-503-ND◆	3309W-503-ND◆
100K	3309P-104-ND◆	3309W-104-ND
200K	3309P-204-ND◆	3309W-204-ND◆
500K	3309P-504-ND	3309W-504-ND◆
1M	3309P-105-ND◆	3309W-105-ND

Series	Pricing 1	10	100
3309P/3309W	.80	6.75	55.95

◆ *RoHS Compliant*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Trimmer Potentiometers

SERIES 3352 — 3/8" (9.52mm) Round/Single-Turn Cermet/Industrial/Open Frame

Dim. in mm

Common Dimensions

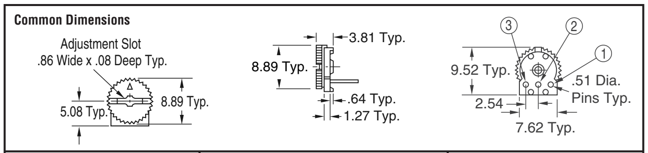

3352E

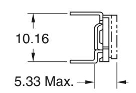

3352H

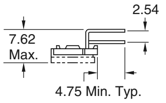

3352P

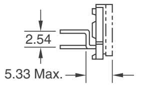

3352W

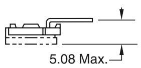

3352T

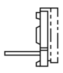

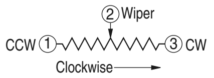

Characteristics: • **Resistance Tolerance:** ±20% standard • **Adjustment Angle:** 205° nominal • **Power Rating (250 volts maximum):** 85°C = 0.5W; 125°C = 0W • **Temperature Range:** –55°C ~ 125°C • **Temperature Coefficient:** ≤ 2K ±150ppm/°C; 2K ≤ +100ppm/°C • **Load Life:** 1,000 hours 0.5 watt @ 85°C (3% ΔTR) • **Rotational Life:** 200 cycles (10% DTR) • **Mechanical Angle:** 250° nominal • **Torque:** 3.0 oz-inch maximum • **Stop Strength:** 8 oz-inch minimum

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3352E-101-ND†	3352H-101-ND	—	3352T-101LF-ND◆	3352W-101LF-ND◆
200	—	3352H-201-ND	3352P-201-ND†	3352T-201LF-ND◆	3352W-201-ND
500	3352E-501-ND†	3352H-501-ND	3352P-501LF-ND◆	3352T-501-ND†	3352W-501-ND†
1K	3352E-102LF-ND◆	3352H-102LF-ND◆	3352P-102LF-ND◆	3352T-102-ND†	3352W-102LF-ND◆
2K	3352E-202-ND†	—	3352P-202-ND†	3352T-202-ND†	3352W-202-ND†
5K	3352E-502-ND†	3352H-502-ND†	3352P-502LF-ND◆	3352T-502-ND†	3352W-502-ND†
10K	3352E-103LF-ND◆	3352H-103-ND†	3352P-103-ND†	3352T-103LF-ND◆	3352W-103LF-ND◆
20K	3352E-203LF-ND◆	3352H-203LF-ND◆	3352P-203LF-ND◆	3352T-203LF-ND◆	3352W-203-ND†
25K	3352E-253LF-ND◆	3352H-253-ND†	3352P-253-ND	3352T-253-ND†	3352W-253-ND†
50K	3352E-503LF-ND◆	3352H-503-ND†	3352P-503LF-ND◆	—	3352W-503LF-ND◆
100K	3352E-104LF-ND◆	3352H-104-ND†	3352P-104-ND†	3352T-104LF-ND◆	3352W-104LF-ND◆
200K	—	—	3352P-204-ND†	3352T-204LF-ND◆	3352W-204LF-ND◆
250K	—	—	3352P-254-ND†	3352T-254LF-ND◆	—
500K	3352E-504-ND†	—	3352P-504LF-ND◆	3352T-504LF-ND◆	3352W-504-ND†
1M	3352E-105LF-ND◆	—	3352P-105-ND†	3352T-105LF-ND◆	3352W-105-ND†

		Pricing	
Series	1	10	50
3352E / 3352H / 3352P / 3352T / 3352W	1.24	11.25	48.38

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to LF-ND.

SERIES 3059 — 1-1/4" (31.75mm) Rectangular/ Multiturn (22) Cermet/Industrial/Sealed

Characteristics:
• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Effective Travel:** 22 turns nominal • **Power Rating:** 70°C = 1W; 150°C = 0W • **Temperature Range:** -55°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 1 Watt @ 70°C (3% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Rotational Life:** 200 cycles (2% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Dim. in mm

3059P

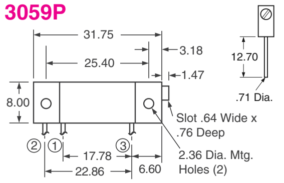

3059Y

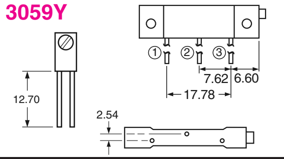

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	—	3059Y-101LF-ND◆
500	3059P-501-ND	—
1K	3059P-102LF-ND◆	3059Y-102LF-ND◆
5K	3059P-502LF-ND◆	3059Y-502LF-ND◆
10K	3059P-103-ND†	3059Y-103LF-ND◆
20K	3059P-203LF-ND◆	3059Y-203LF-ND◆
50K	3059P-503LF-ND◆	3059Y-503-ND†
100K	3059P-104LF-ND◆	3059Y-104-ND†
200K	—	3059Y-204LF-ND◆
500K	—	3059Y-504LF-ND◆

		Pricing	
Series	1	10	50
3059P/3059Y	6.49	59.00	253.70

◆ ***RoHS Compliant***
† For ***RoHS Compliant*** Part Number change -ND to LF-ND.

SERIES 3303 — 3mm SMD, Trimming Potentiometer

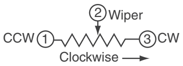

Dim. in mm

3303C – 3-Terminal Both Sides Adjust

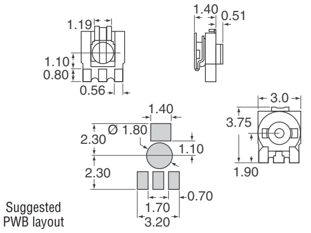

3303W, X – Open Frame for Reflow Soldering 3-Terminal Low Profile

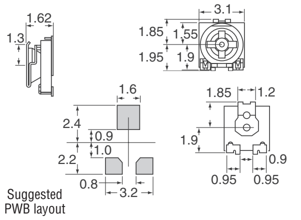

Characteristics: • **Resistance Tolerance:** ±25% standard • **Contact Resistance Variation:** 5% maximum • **Resolution:** Infinite • **Adjustment Angle:** 260° ±20° • **Power Rating (50VDC maximum):** 70°C = 0.15W • **Temperature Range:** -40°C ~ 125°C • **Temperature Coefficient:** ±250ppm/°C • **TRS maximum:** ±5%

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
500	—	—	3303X-501E□□-ND
5K	—	3303W-502E□□-ND◆	—
10K	—	3303W-103E□□-ND	—
20K	—	3303W-203E□□-ND◆	—
50K	3303C-503E□□-ND	—	—
100K	—	3303W-104E□□-ND	3303X-104E□□-ND
200K	—	3303W-204ECT-ND	—
1M	3303C-105E□□-ND	—	—

		Cut Tape Pricing				Tape and Reel Pricing
Series	Part No.	1	10	100	Part No.	2,000
3303C	Add “CT”-ND	.45	3.75	34.50	Add “TR”-ND	225.00/M
3303W	Add “CT”-ND	.26	2.13	19.55	Add “TR”-ND	127.50/M
3303X	Add “CT”-ND	.26	2.13	19.55	Add “TR”-ND	127.50/M

◆ ***RoHS Compliant***

SERIES 3361 — 1/4" (6.35mm) Square SMD/Single-Turn Cermet/Industrial/Sealed

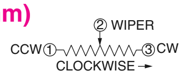

Dim. in mm

3361P

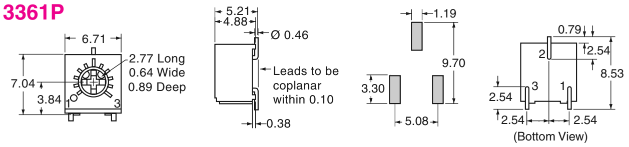

3361S

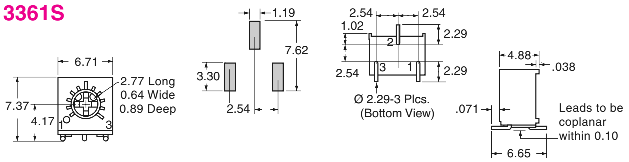

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 240° nominal • **Power Rating (300V maximum):** 70°C = 0.50W; 125°C = 0W • **Temperature Range:** - 55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.5W @ 70°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Mechanical Angle:** 270° nominal • **Torque:** 3.0 oz-in. maximum • **Stop Strength:** 7.0 oz-in. minimum

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
10	3361P-1-100GLF□□-ND◆ ***NEW!***	3361S-1-100GLF□□-ND◆ ***NEW!***
20	3361P-1-200GLF□□-ND◆ ***NEW!***	3361S-1-200GLF□□-ND◆ ***NEW!***
50	3361P-1-500GLF□□-ND◆ ***NEW!***	3361S-1-500GLF□□-ND◆ ***NEW!***
100	3361P-101G□□-ND†	3361S-101G□□-ND
200	3361P-201GLF□□-ND◆	3361S-201G□□-ND†
500	3361P-501G□□-ND†	3361S-501G□□-ND†
1K	3361P-102GLF□□-ND◆	3361S-102G□□-ND†
2K	3361P-202GLF□□-ND◆	3361S-202GLF□□-ND◆
5K	3361P-502GLF□□-ND◆	3361S-502G□□-ND†
10K	3361P-103G□□-ND†	3361S-103G□□-ND†
20K	3361P-203GLF□□-ND◆	3361S-203G□□-ND†
25K	3361P-1-253GLF□□-ND◆ ***NEW!***	3361S-1-253GLF□□-ND◆ ***NEW!***
50K	3361P-503GLF□□-ND◆	3361S-503G□□-ND†
100K	3361P-104GLF□□-ND◆	3361S-104G□□-ND†
200K	3361P-1-204GLF□□-ND◆ ***NEW!***	3361S-1-204GLF□□-ND◆ ***NEW!***
250K	3361P-1-254GLF□□-ND◆ ***NEW!***	3361S-1-254GLF□□-ND◆ ***NEW!***
500K	3361P-1-504GLF□□-ND◆ ***NEW!***	3361S-1-504GLF□□-ND◆ ***NEW!***
1M	3361P-1-105GLF□□-ND◆ ***NEW!***	3361S-1-105GLF□□-ND◆ ***NEW!***
2M	3361P-1-205GLF□□-ND◆ ***NEW!***	3361S-1-205GLF□□-ND◆ ***NEW!***

		Cut Tape Pricing				Tape and Reel Pricing	
Series	Part No.	1	10	50	Part No.	500	750
3361P/3361P-1	Add “CT”-ND	1.02	9.25	44.40	Add “TR”-ND	—	486.00
3361S/3361S-1	Add “CT”-ND	1.02	9.25	44.40	Add “TR”-ND	324.00	—

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change □□-ND to LF□□-ND.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

BOURNS Trimmer Potentiometers

SERIES 3223 — Surface Mount 3mm Multi-Turn (11) Cermet/Industrial/Sealed

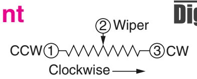

Dim. in mm

3223G *NEW!*

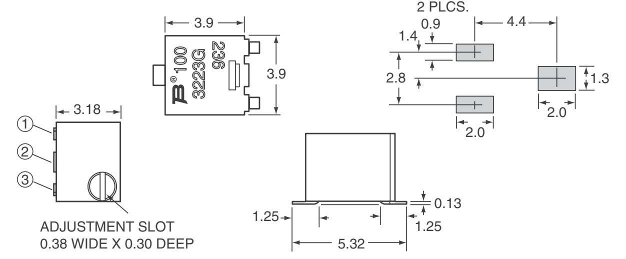

3223J *NEW!*

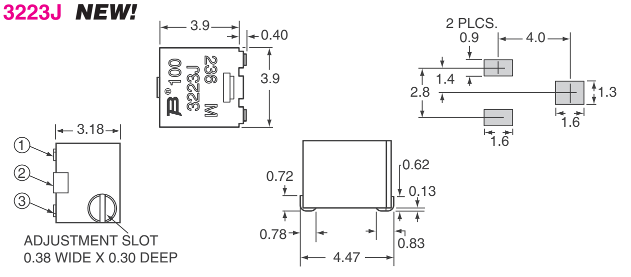

3223W

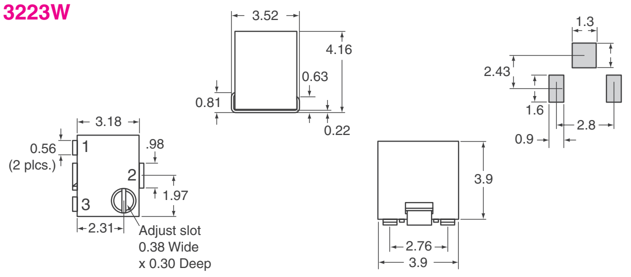

Features:

• Surface Mount 3mm Square/Multi-turn Cermet/Industrial/Sealed • Sealed to withstand standard board wash processing • Pick and place centering design for automated placement compatibility • Flush adjustment screw • Top and side adjust

Characteristics:

• **Resistance Tolerance:** ±20% standard • **Absolute Minimum Resistance:** 1% or 3Ω maximum (whichever is greater) • **Contact Resistance Variation:** 3% or 3Ω maximum (whichever is greater) • **Resolution:** Essentially Infinite • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Adjustment Angle:** 11 turns nominal • **Power Rating (200V maximum):** 70°C = 0.125W, 150°C = 0W • **Temperature Range:** -65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Vibration:** 20G TRS ±1%, VRS ±1% • **Shock:** 100G TRS ±1%, VRS ±1% • **Load Life (@ 70°C Rated Power 1000 Hours):** CRV 4Ω or 4% (whichever is greater) • **Rotational Cycling:** 200 cycles, CRV 4Ω or 4% (whichever is greater) • **Thermal Shock:** 5 cycles, TRS ±2%, VRS ±2%

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3223G-1-100E□□-ND◆ ***NEW!***	3223J-1-100E□□-ND◆ ***NEW!***	3223W-1-100E□□-ND◆
20	3223G-1-200E□□-ND◆ ***NEW!***	3223J-1-200E□□-ND◆ ***NEW!***	3223W-1-200E□□-ND
50	3223G-1-500E□□-ND◆ ***NEW!***	3223J-1-500E□□-ND◆ ***NEW!***	3223W-1-500E□□-ND◆
100	3223G-1-101E□□-ND◆ ***NEW!***	3223J-1-101E□□-ND◆ ***NEW!***	3223W-1-101E□□-ND◆
200	3223G-1-201E□□-ND◆ ***NEW!***	3223J-1-201E□□-ND◆ ***NEW!***	3223W-1-201E□□-ND◆
500	3223G-1-501E□□-ND◆ ***NEW!***	3223J-1-501E□□-ND◆ ***NEW!***	3223W-1-501E□□-ND◆
1K	3223G-1-102E□□-ND◆ ***NEW!***	3223J-1-102E□□-ND◆ ***NEW!***	3223W-1-102E□□-ND◆
2K	3223G-1-202E□□-ND◆ ***NEW!***	3223J-1-202E□□-ND◆ ***NEW!***	3223W-1-202E□□-ND◆
5K	3223G-1-502E□□-ND◆ ***NEW!***	3223J-1-502E□□-ND◆ ***NEW!***	3223W-1-502E□□-ND◆
10K	3223G-1-103E□□-ND◆ ***NEW!***	3223J-1-103E□□-ND◆ ***NEW!***	3223W-1-103E□□-ND◆
20K	3223G-1-203E□□-ND◆ ***NEW!***	3223J-1-203E□□-ND◆ ***NEW!***	3223W-1-203E□□-ND◆ ***NEW!***
50K	3223G-1-503E□□-ND◆ ***NEW!***	3223J-1-503E□□-ND◆ ***NEW!***	3223W-1-503E□□-ND◆
100K	3223G-1-104E□□-ND◆ ***NEW!***	3223J-1-104E□□-ND◆ ***NEW!***	3223W-1-104E□□-ND◆
200K	3223G-1-204E□□-ND◆ ***NEW!***	3223J-1-204E□□-ND◆ ***NEW!***	3223W-1-204E□□-ND◆
500K	3223G-1-504E□□-ND◆ ***NEW!***	3223J-1-504E□□-ND◆ ***NEW!***	3223W-1-504E□□-ND◆
1M	3223G-1-105E□□-ND◆ ***NEW!***	3223J-1-105E□□-ND◆ ***NEW!***	3223W-1-105E□□-ND◆
2M	3223G-1-205E□□-ND◆ ***NEW!***	3223J-1-205E□□-ND◆ ***NEW!***	3223W-1-205E□□-ND

		Cut Tape Pricing				Tape and Reel Pricing
Series	Part No.	1	10	100	Part No.	500
3223G/3223J/3223W	Add “CT”-ND	3.30	27.50	253.00	Add “TR”-ND	896.50

◆ ***RoHS Compliant***

SERIES 3329 — 1/4" (6.35mm) Round/Single-Turn Cermet/Industrial/Sealed

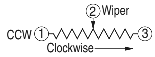

Dim. in mm

3329H

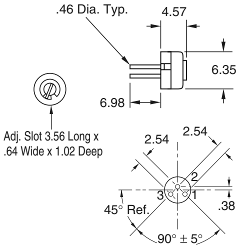

3329P

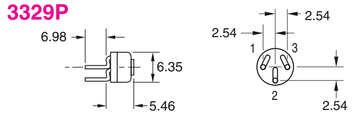

3329S

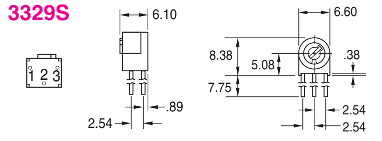

3329W

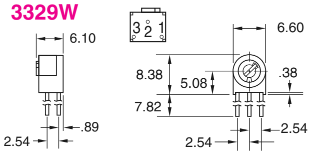

3329X

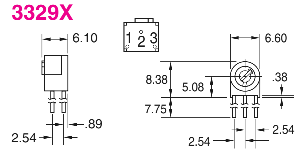

Characteristics: • **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 240° nominal • **Power Rating (300 volts maximum):** 85°C = 0.5W; 150°C = 0W • **Temperature Range:** -55°C ~ 150°C • **Temperature Coefficient:** ±100 ppm/°C • **Load Life:** 1,000 hours 0.5 watt @ 85°C (3% ΔTR; CRV, 3%) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 4%) • **Mechanical Angle:** 260° nominal • **Torque:** 5.0 oz-inch maximum • **Stop Strength:** 5.0 oz-inch minimum

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
50	3329H-500LF-ND◆	3329P-500-ND†	—	—	—
100	3329H-101-ND†	3329P-101-ND†	3329S-101-ND	3329W-101LF-ND◆	3329X-101LF-ND◆
200	3329H-201LF-ND◆	3329P-201-ND†	3329S-201-ND	—	3329X-201-ND
500	3329H-501LF-ND◆	3329P-501-ND†	3329S-501-ND†	—	3329X-501-ND†
1K	3329H-102-ND†	3329P-102-ND†	3329S-102LF-ND◆	3329W-102LF-ND◆	3329X-102LF-ND◆
2K	3329H-202LF-ND◆	3329P-202LF-ND◆	—	3329W-202-ND†	3329X-202LF-ND◆
5K	3329H-502LF-ND◆	3329P-502LF-ND◆	3329S-502-ND†	—	3329X-502-ND†
10K	3329H-103LF-ND◆	3329P-103LF-ND◆	3329S-103-ND†	3329W-103LF-ND◆	3329X-103LF-ND◆
20K	3329H-203LF-ND◆	3329P-203LF-ND◆	3329S-203-ND†	3329W-203-ND†	3329X-203-ND†
50K	3329H-503LF-ND◆	3329P-503LF-ND◆	3329S-503LF-ND◆	3329W-503LF-ND◆	3329X-503-ND†
100K	3329H-104LF-ND◆	3329P-104-ND†	3329S-104LF-ND◆	3329W-104-ND†	—
200K	3329H-204LF-ND◆	3329P-204-ND†	3329S-204-ND	3329W-204LF-ND◆	—
500K	3329H-504-ND†	3329P-504LF-ND◆	3329S-504-ND	—	—
1M	3329H-105-ND†	3329P-105LF-ND◆	3329S-105-ND	3329W-105-ND†	—

		Pricing	
Series	1	10	50
3329H/3329P	2.61	23.75	102.13
3329S/3329W/3329X	3.14	28.50	122.55

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to LF-ND.

SERIES 3364 — SMD 4mm Square/Single-Turn Cermet/Industrial/Open Frame

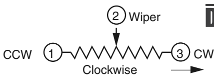

Dim. in mm

3364W and X

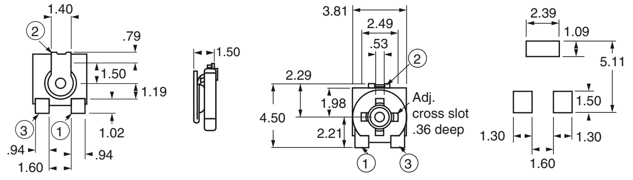

Cross-slot rotor designs suitable for automatic adjustment equipment. Supplied in 12mm embossed tape and compatible with automatic pick-and-place assembly equipment. Rear adjust versions available.

Characteristics: • **Resistance Tolerance:** ±25% standard • **Adjustment Angle:** 260° ±20° • **Power Rating (50V maximum):** 70°C = 0.2W • **Temperature Range:** -40°C ~ 100°C • **Temperature Coefficient:** ±250ppm/°C • **Load Life:** 1,000 hours 0.2W @ 70°C (5% ΔTR) • **Rotational Life:** 20 cycles (15% ΔTR) • **Torque:** 20 ~ 200g-cm. • **Mechanical Angle:** Continuous

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
500	3364W-501E□□-ND◆	3364X-501E□□-ND
1K	3364W-102E□□-ND◆	3364X-102E□□-ND
2K	3364W-202E□□-ND	3364X-202E□□-ND
5K	3364W-502E□□-ND	3364X-502E□□-ND
10K	3364W-103E□□-ND◆	3364X-103E□□-ND◆
20K	3364W -203E□□-ND◆	3364X-203E□□-ND
50K	3364W-503E□□-ND◆	3364X-503E□□-ND◆
100K	3364W-104E□□-ND◆	3364X-104E□□-ND
200K	3364W-204E□□-ND	3364X-204E□□-ND
500K	3364W-504E□□-ND	3364X-504E□□-ND
1M	3364W-105E□□-ND	3364X-105E□□-ND

		Cut Tape Pricing			Tape and Reel Pricing
Series	Part No.	5	100	Part No.	1,000
3364W/3364X	Add “CT”-ND	4.23	56.55	Add “TR”-ND	321.00

◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

BOURNS Trimmer Potentiometers

SERIES 3214 — Surface Mount 4mm Square/Multi-Turn Cermet/Industrial/Sealed

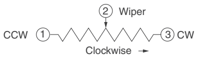

RoHS COMPLIANT

Digi-Reel®

Features: • Sealed to withstand board wash processing • Pick and place centering design, with flush adjustment • Patent #5047746 advanced drive/wiper mechanism **Characteristics:** • **Resistance Tolerance:** ±10% standard • **Absolute Minimum Resistance:** 1% or 2.0Ω (whichever is greater) • **Contact Resistance Variation:** 3% or 3Ω maximum • **Resolution:** Essentially Infinite • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Dielectric Strength:** ***Sea Level:*** 600VAC (1 minute) • **Adjustment Angle:** 5 turns nominal • **Power Rating (300V max.):** 85°C = 0.25W, 150°C = 0W • **Temperature Range:** -65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Humidity:** MIL-STD 202 Method 106, TRS ±2%; IR 10MΩ • **Load Life (@ 85°C Rated Power 1000 Hours):** TRS 3Ω or 3% (whichever is greater) • **Vibration:** 20G TRS ±1%; VRS ±1% • **Shock:** 100G TRS ±1%; VRS ±1% • **Rotational Cycling:** 200 cycles, TRS 3Ω or 3% (whichever is greater) • **Thermal Shock:** 5 cycles, TRS ±2%; VRS ±1% • **Mechanical Stop:** Wiper idles • **Torque:** 180g-cm maximum • **Weight:** Approximately 0.01 oz. • **Marking:** Manufacturer's code, resistance code and date code • **Solderability:** Per MIL-STD-202, Method 208 • **Wiper:** Set at 50% nominal • **Flammability:** UL 94V-0

Dim. in mm

3214G *NEW!*

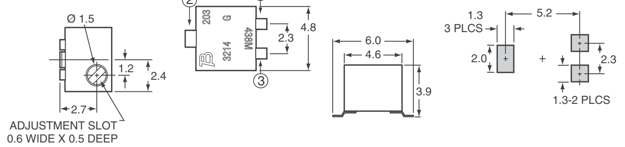

3214J

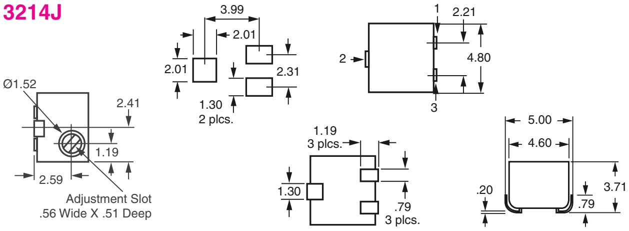

3214W

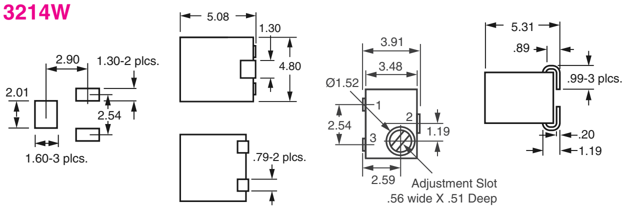

3214X *NEW!*

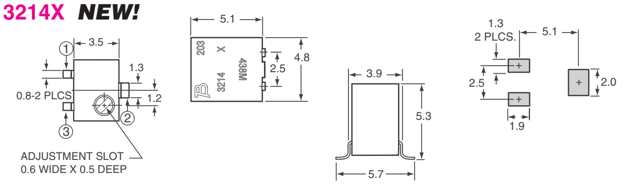

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3214G-1-100E☐☐-ND‡	3214J-1-100E☐☐-ND‡	3214W-1-100E☐☐-ND‡	3214X-1-100E☐☐-ND‡
20	3214G-1-200E☐☐-ND‡	3214J-1-200E☐☐-ND‡	—	3214X-1-200E☐☐-ND‡
50	3214G-1-500E☐☐-ND‡	3214J-1-500E☐☐-ND‡	3214W-1-500E☐☐-ND‡	3214X-1-500E☐☐-ND‡
100	3214G-1-101E☐☐-ND‡	3214J-101E☐☐-ND	3214W-101E☐☐-ND	3214X-1-101E☐☐-ND‡
200	3214G-1-201E☐☐-ND‡	3214J-201E☐☐-ND	3214W-201E☐☐-ND	3214X-1-201E☐☐-ND‡
500	3214G-1-501E☐☐-ND‡	3214J-501E☐☐-ND	3214W-501E☐☐-ND	3214X-1-501E☐☐-ND‡
1K	3214G-1-102E☐☐-ND‡	3214J-102E☐☐-ND	3214W-102E☐☐-ND	3214X-1-102E☐☐-ND‡
2K	3214G-1-202E☐☐-ND‡	3214J-202E☐☐-ND	3214W-202E☐☐-ND	3214X-1-202E☐☐-ND‡
5K	3214G-1-502E☐☐-ND‡	3214J-502E☐☐-ND	3214W-502E☐☐-ND	3214X-1-502E☐☐-ND‡
10K	3214G-1-103E☐☐-ND‡	3214J-103E☐☐-ND	3214W-103E☐☐-ND	3214X-1-103E☐☐-ND‡
20K	3214G-1-203E☐☐-ND‡	3214J-203E☐☐-ND	3214W-203E☐☐-ND	3214X-1-203E☐☐-ND‡
50K	3214G-1-503E☐☐-ND‡	3214J-503E☐☐-ND	3214W-503E☐☐-ND	3214X-1-503E☐☐-ND‡
100K	3214G-1-104E☐☐-ND‡	3214J-104E☐☐-ND	3214W-104E☐☐-ND	3214X-1-104E☐☐-ND‡
200K	3214G-1-204E☐☐-ND‡	3214J-1-204E☐☐-ND‡	3214W-1-204E☐☐-ND‡	3214X-1-204E☐☐-ND‡
500K	3214G-1-504E☐☐-ND‡	3214J-1-504E☐☐-ND‡	3214W-1-504E☐☐-ND‡	3214X-1-504E☐☐-ND‡
1M	3214G-1-105E☐☐-ND‡	3214J-1-105E☐☐-ND‡	3214W-1-105E☐☐-ND‡	3214X-1-105E☐☐-ND‡
2M	3214G-1-205E☐☐-ND‡	3214J-1-205E☐☐-ND‡	3214W-1-205E☐☐-ND	3214X-1-205E☐☐-ND‡

	Cut Tape Pricing				Tape and Reel Pricing				
Series	Part No.	1	10	100	Part No.	200	250	400	500
3214G	Add “CT”-ND	2.76	23.00	211.60	Add “TR”-ND	—	—	—	750.00
3214J	Add “CT”-ND	3.22	27.60	239.20	Add “TR”-ND	—	—	—	750.00
3214W	Add “CT”-ND	3.22	27.60	239.20	Add “TR”-ND	—	414.00	—	750.00
3214X	Add “CT”-ND	2.76	23.00	211.60	Add “TR”-ND	331.20	—	600.00	—

‡ ***NEW!***

SERIES 3224 — SMT 4mm Multi-Turn (11) Cermet

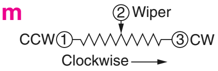

RoHS COMPLIANT

Digi-Reel®

Characteristics:

Resistance Tolerance: ±10% standard • **Absolute Minimum Resistance:** 1% or 2Ω (whichever is greater) • **Contact Resistance Variation:** 1% or 3Ω maximum • **Resolution:** Essentially Infinite • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Dielectric Strength:** ***Sea Level:*** 600VAC (1 minute) **Adjustment Angle:** 11 turns nominal • **Power Rating (300V maximum):** 85°C = 0.25W, 150°C = 0W • **Temperature Range:** -65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Humidity:** MIL-STD 202 Method 106, TRS ±2%; IR 10MΩ • **Vibration:** 20G TRS ±1%, VRS ±1% • **Shock:** 100G TRS ±1%, VRS ±1% • **Load Life (@ 85°C Rated Power 1000 Hours):** TRS 3Ω or 3% (whichever is greater) • **Rotational Cycling:** 200 cycles, TRS 3Ω or 3% (whichever is greater) • **Thermal Shock:** 5 cycles, TRS ±2%, VRS ±1% • **Mechanical Stop:** Wiper idles • **Torque:** 180g-cm maximum • **Weight:** Approximately 0.01 oz. • **Marking:** Manufacturer's code, resistance code and date code

Dim. in mm

3224G – Side Adjust *NEW!*

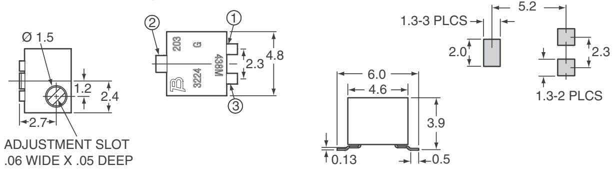

3224J – Side Adjust

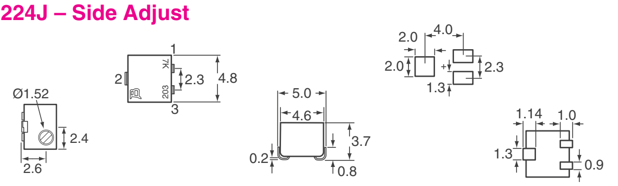

3224W – Top Adjust

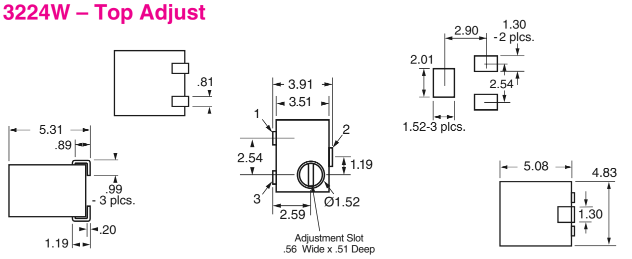

3224X – Top Adjust *NEW!*

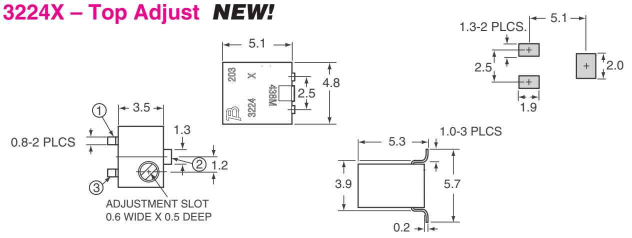

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3224G-1-100E☐☐-ND‡	3224J-1-100E☐☐-ND‡	—	3224X-1-100E☐☐-ND‡
20	3224G-1-200E☐☐-ND‡	3224J-1-200E☐☐-ND‡	—	3224X-1-200E☐☐-ND‡
50	3224G-1-500E☐☐-ND‡	3224J-1-500E☐☐-ND‡	—	3224X-1-500E☐☐-ND‡
100	3224G-1-101E☐☐-ND‡	3224J-1-101E☐☐-ND‡	3224W-1-101E☐☐-ND‡	3224X-1-101E☐☐-ND‡
200	3224G-1-201E☐☐-ND‡	3224J-1-201E☐☐-ND‡	3224W-1-201E☐☐-ND‡	3224X-1-201E☐☐-ND‡
500	3224G-1-501E☐☐-ND‡	3224J-1-501E☐☐-ND‡	3224W-1-501E☐☐-ND‡	3224X-1-501E☐☐-ND‡
1K	3224G-1-102E☐☐-ND‡	3224J-102E☐☐-ND	3224W-1-102E☐☐-ND‡	3224X-1-102E☐☐-ND‡
2K	3224G-1-202E☐☐-ND‡	3224J-202E☐☐-ND	3224W-202E☐☐-ND	3224X-1-202E☐☐-ND‡
5K	3224G-1-502E☐☐-ND‡	3224J-502E☐☐-ND	3224W-502E☐☐-ND	3224X-1-502E☐☐-ND‡
10K	3224G-1-103E☐☐-ND‡	3224J-103E☐☐-ND	3224W-103E☐☐-ND	3224X-1-103E☐☐-ND‡
20K	3224G-1-203E☐☐-ND‡	3224J-203E☐☐-ND	3224W-203E☐☐-ND	3224X-1-203E☐☐-ND‡
50K	3224G-1-503E☐☐-ND‡	3224J-503E☐☐-ND	3224W-1-503E☐☐-ND‡	3224X-1-503E☐☐-ND‡
100K	3224G-1-104E☐☐-ND‡	3224J-1-104E☐☐-ND‡	3224W-1-104E☐☐-ND‡	3224X-1-104E☐☐-ND‡
200K	3224G-1-204E☐☐-ND‡	3224J-1-204E☐☐-ND‡	—	3224X-1-204E☐☐-ND‡
500K	3224G-1-504E☐☐-ND‡	3224J-1-504E☐☐-ND‡	—	3224X-1-504E☐☐-ND‡
1M	3224G-1-105E☐☐-ND‡	3224J-1-105E☐☐-ND‡	—	3224X-1-105E☐☐-ND‡
2M	3224G-1-205E☐☐-ND‡	3224J-1-205E☐☐-ND‡	—	3224X-1-205E☐☐-ND‡

	Cut Tape Pricing				Tape and Reel Pricing				
Series	Part No.	1	10	100	Part No.	200	250	400	500
3224G	Add “CT”-ND	4.47	37.25	342.70	Add “TR”-ND	—	—	—	1214.50
3224J	Add “CT”-ND	5.22	44.70	387.40	Add “TR”-ND	—	—	—	1214.50
3224W	Add “CT”-ND	5.22	44.70	387.40	Add “TR”-ND	—	670.50	—	1214.50
3224X	Add “CT”-ND	4.47	37.25	342.70	Add “TR”-ND	536.40	—	971.60	—

‡ ***NEW!***

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Precision Potentiometers

SERIES 39 — 1/2" (12.5mm) Single-Turn Conductive Plastic

Characteristics: • **Total Resistance Tolerance:** ±20% • **End Resistance:** 2Ω maximum • **Effective Electrical Angle:** Non-Switching Type (Bushing Type "S") and Rotary Switch Type (Bushing Type "S"): 220°±5°; Momentary Push Switch Type (Bushing Type "L") 201°±5% • **Contact Resistance Variation:** 3% maximum • **Dielectric Withstanding Voltage:** 750 VRMS minimum • **Insulation Resistance:** 100MΩ minimum • **Power Rating @70°C Linear Taper:** 0.25 watt **Switch Characteristics: Rotary Switch Type (SPST N.O.):** • **Power Rating (Resistive Load):** 0.5A @ 12VDC • **Contact Resistance @ 10mA:** 200mΩ maximum • **Contact Bounce:** 5 milliseconds • **Actuation Torque:** 0.7~ 4.9 N-cm (1 ~ 7 oz, -in.) • **Momentary Push Switch Type (SPST N.O.):** • **Power Rating (Resistive Load):** 250mA @ 12VDC • **Contact Resistance @ 10mA (with 500gm Shaft Load):** 50Ω maximum • **Contact Bounce:** 5 milliseconds • **Actuation Force:** 500 ±100 grams **Environmental Characteristics:** • **Rotation Life (No Load):** 50,000 Cycles • **Switch Life: Rotary Switch Type:** 25,000 cycles; **Momentary Push Switch Type:** 50,000 cycles

Dim. in mm

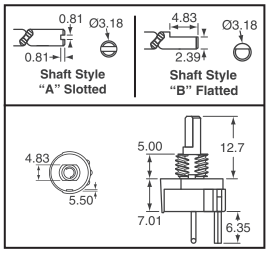

Shaft Style	Ω	Shaft Dia. x Length	Switch Type	Digi-Key Part No.	Price Each 1	25	50
A	10K	1/8" x 1/2"	Momentary Push	39LA-1PB-103-ND	7.95	5.41	5.09
A	20K		Momentary Push	39LA-1PB-203-ND	7.95	5.41	5.09
A	50K		Momentary Push	39LA-1PB-503-ND	7.95	5.41	5.09
B	10K		Momentary Push	39LB-1PB-103-ND	7.95	5.41	5.09
A	10K		No Switch	39SA-1NB-103-ND	7.28	4.95	4.66
A	20K	1/8" x 1/2"	No Switch	39SA-1NB-203-ND	7.28	4.95	4.66
A	50K		No Switch	39SA-1NB-503-ND	7.28	4.95	4.66
A	10K		Rotary	39SA-1RB-103-ND	9.55	6.50	6.12
A	20K		Rotary	39SA-1RB-203-ND	9.55	6.50	6.12
A	50K		Rotary	39SA-1RB-503-ND	9.55	6.50	6.12
B	10K	1/8" x 1/2"	No Switch	39SB-1NB-103-ND	7.28	4.95	4.66
B	10K		Rotary	39SB-1RB-103-ND	9.55	6.50	6.12

SERIES 50 — Sealed 1/2" (12.5mm) Square Control

Characteristics: • **Effective Electrical Angle:** 270° ±5° • **Contact Resistance Variation:** 2.0% • **Dielectric Withstanding Voltage:** ***Sea Level:*** 1,500VAC minimum; ***70,000 Feet:*** 500VAC minimum • **Insulation Resistance:** 1,000MΩ minimum • **Mounting hardware included**

Dim. in mm

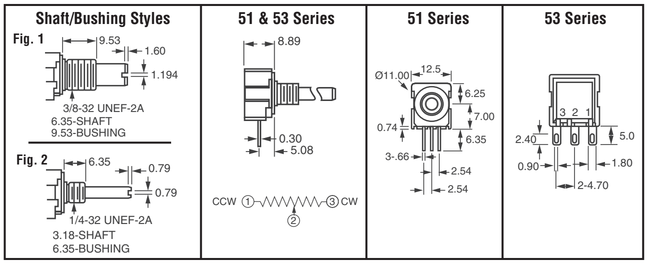
Shaft/Bushing Styles | **51 & 53 Series** | **51 Series** | **53 Series**

Bush. Fig.	Taper	Resis. Tolerance	Ω	Watts	Element Material	Digi-Key Part No .	Price Each 1	25	50	100
2	Linear	±10%	1K	1	Cermet	51CAD-E28-A10L-ND◆	7.39	5.75	4.70	3.98
2	Linear	±10%	5K	1	Cermet	51CAD-E28-A13-ND†	7.39	5.75	4.70	3.98
1	Audio	±20%	10K	1/4	Conductive Plastic	51AAD-B28-D15L-ND◆	7.97	6.21	5.07	4.29
2	Audio	±20%	10K	1/4	Conductive Plastic	51CAD-E28-D15L-ND◆	7.97	6.21	5.07	4.29
2	Linear	±20%	10K	1/2	Conductive Plastic	51CAD-E24-B15L-ND◆	7.39	5.75	4.70	3.98
1	Linear	±10%	10K	1	Cermet	51AAD-B24-A15L-ND◆	7.39	5.75	4.70	3.98
2	Linear	±10%	10K	1	Cermet	51CAD-E24-A15L-ND◆	7.39	5.75	4.70	3.98
2	Linear	±10%	100K	1	Cermet	51CAD-E28-A20L-ND◆	7.39	5.75	4.70	3.98
1	Linear	±20%	10K	1/2	Conductive Plastic	53AAA-B28-B15L-ND◆	8.51	6.64	5.42	4.59

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number change -ND to L-ND.

SERIES 81 — 2 Watt Cermet - 5/8" Square Single-Turn

• **Resistance Tolerance:** ±10% • **Continuity:** Maintained for full mechanical angle • **Effective Electrical Angle:** 240° ±6° • **Contact Resistance Variation:** ±1% or 3Ω (whichever is greater) • **Theoretical Resolution:** Essentially Infinite • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (*Sea Level:* 1500VAC minimum; *70,000 Feet:* 500VAC minimum) • **Insulation Resistance (500 VDC):** 1,000MΩ minimum • **Mounting hardware included**

Dim. in mm

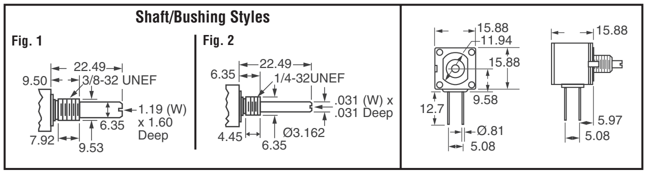
Shaft/Bushing Styles

Bushing Fig.	Ω	Digi-Key Part No.	Price Each 1	25	50	100
1	1K	81A1A-B28-A10L-ND◆	9.02	7.02	5.74	4.85
1	5K	81A1A-B28-A13-ND†	9.02	7.02	5.74	4.85
2	5K	81C1A-E28-A13L-ND◆	9.02	7.02	5.74	4.85
1	10K	81A1A-B28-A15L-ND◆	9.02	7.02	5.74	4.85
2	10K	81C1A-E28-A15L-ND◆	9.02	7.02	5.74	4.85
2	100K	81C1A-E28-A20L-ND◆	9.02	7.02	5.74	4.85

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number, change -ND to L-ND.

SERIES 91 — 5/8" Square Single-Turn Conductive Plastic - Bushing Mount

• **Resistance Tolerance:** ±20% • **Continuity:** Maintained for full mechanical angle • **Effective Electrical Angle:** 240° ±5° • **Contact Resistance Variation:** ±1% • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (*Sea Level:* 1,500VAC minimum; *70,000 Feet:* 500VAC minimum) • **Insulation Resistance (500 VDC):** 1,000MΩ minimum • **Theoretical Resolution:** Essentially infinite • **Mounting hardware included**

Dim. in mm

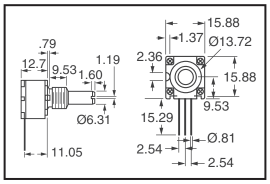

Taper	Ω	Watts	Shaft Length From Mtg. Surface Inches (mm)	Digi-Key Part No.	Price Each 1	25	50	100
Linear	1K	1/2	7/8" (22.23)	91A1A-B28-B10L-ND◆	4.74	3.69	3.01	2.55
Linear	5K	1/2	3/4" (19.05)	91A1A-B24-B13L-ND◆	4.74	3.69	3.01	2.55
Linear	5K	1/2	7/8" (22.23)	91A1A-B28-B13-ND†	4.74	3.69	3.01	2.55
Audio	10K	1/4	3/4" (19.05)	91A1A-B24-D15L-ND◆	5.37	4.18	3.42	2.89
Linear	10K	1/2	3/4" (19.05)	91A1A-B24-B15L-ND◆	4.74	3.69	3.01	2.55
Linear	10K	1/2	7/8" (22.23)	91A1A-B28-B15L-ND◆	4.74	3.69	3.01	2.55

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number, change -ND to L-ND.

SERIES 3590 — 2 Watt - 10 Turn Wirewound

• **Resistance Tolerance:** ±5% • **Effective Electrical Angle:** 3600° +10°, -0° • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (*Sea Level:* 2,000VAC minimum) • **Insulation Resistance (500 VDC):** 1,000MΩ minimum • **Mounting hardware included**

Dim. in mm

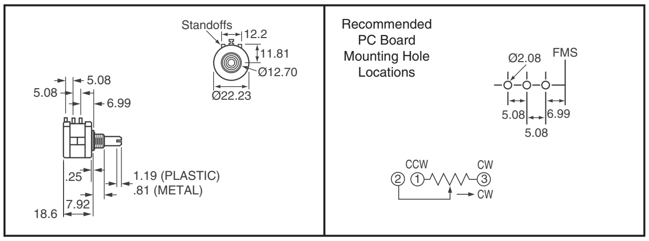

Ω	Resolution %	Bushing Type & Dim.	Shaft Diameter Inches (mm)	Digi-Key Part No.	Price Each 1	50	100	500
2K	.023	3/8" x 5/16" Plastic	.2480" (6.30) Plastic	3590S-1-202L-ND◆	10.02	8.12	7.41	7.02
5K	.025			3590S-1-502-ND†	10.02	8.12	7.41	7.02
20K	.016			3590S-1-203L-ND◆	10.02	8.12	7.41	7.02
50K	.013			3590S-1-503L-ND◆	12.10	9.80	8.95	8.47
100K	.009			3590S-1-104L-ND◆	12.98	10.51	9.61	9.10
500	.033	3/8" x 5/16" Metal	.2497" (6.34) Metal	3590S-2-501L-ND◆	10.02	8.12	7.41	7.02
1K	.029			3590S-2-102L-ND◆	10.02	8.12	7.41	7.01
2K	.023			3590S-2-202-ND†	10.02	8.12	7.41	7.02
5K	.025			3590S-2-502L-ND◆	10.02	8.12	7.41	7.02
10K	.020			3590S-2-103L-ND◆	10.02	8.12	7.41	7.02
20K	.016			3590S-2-203L-ND◆	10.02	8.12	7.41	7.02
50K	.013			3590S-2-503L-ND◆	12.10	9.80	8.95	8.47
100K	.009			3590S-2-104L-ND◆	12.98	10.51	9.61	9.10
10K	.020	9mm x 7.94mm Metal	.2362" (6.00) Metal	3590S-6-103L-ND◆	12.10	9.80	8.95	8.47

◆ ***RoHS Compliant*** † For ***RoHS Compliant*** Part Number, change -ND to L-ND.

SERIES 95 — 5/8" Square Guitar Potentiometer

Specifications:

• **Rotational Life:** 100K cycles • **Contact Resistance Variation:** 1% maximum • **Power Rating:** 0.25 watts • **Moisture Resistance:** ±20% TRS

Features:

• Conductive polymer element • Very low noise • Single-turn • **Taper:** Audio

Dim. in mm

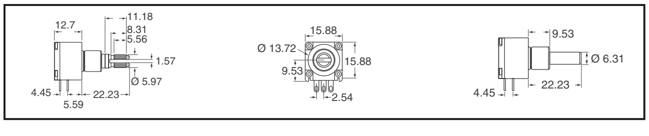

Ω	Shaft Type	Digi-Key Part No.	Price Each 1	5	10	25
250K	Knurled	95A1D-Z28-EA0/300L-ND	13.28	10.92	10.21	9.44
250K	Plain	95A1D-Z28-EA0/301L-ND	8.40	6.83	6.30	5.95
500K	Knurled	95A1D-Z28-EA0/302L-ND	13.28	10.92	10.21	9.44

SERIES 3862 — 1 Watt Cermet 1/2” Diameter Single-Turn Panel Control

- **Resistance Tolerance:** ±10%
- **Continuity:** Maintained for full mechanical angle
- **Effective Electrical Angle:** 260° ±10°
- **Contact Resistance Variation:** ±3% of total resistance
- **Theoretical Resolution:** Essentially infinite
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 750VAC minimum; 70,000 Feet: 350VAC minimum)
- **Insulation Resistance (500 VDC):** 1,000MΩ minimum

Mounting hardware included.

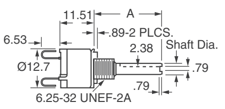

Ω	Dim. A (mm)	Shaft Dia. (mm)	Digi-Key Part No.	Price Each 1	25	50	100	250
10K	12.7	3.18	3862C-162-103AL-ND	14.69	11.44	9.34	7.90	7.35
10K	22.20	3.18	3862C-282-103AL-ND	14.69	11.44	9.34	7.90	7.35

SERIES 3540/3541 — 2 Watt - 10 Turn Wirewound/Hybritron®

- **Resistance Tolerance:** ±5% for 3540 series ±10% for 3541 series
- **Effective Electrical Angle:** 3600° +10°, -0°
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1,000VAC minimum)
- **Insulation Resistance (500VDC):** 1,000MΩ minimum

Mounting hardware included.

Dim. in mm

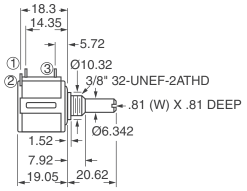

Ω	Resolution %	Digi-Key Part No.	Price Each 1	50	100	500
		Wirewound				
100	.055	3540S-1-101-ND	26.76	21.68	19.80	18.74
500	.031	3540S-1-501-ND	26.76	21.68	19.80	18.74
1K	.027	3540S-1-102-ND	26.76	21.68	19.80	18.74
2K	.021	3540S-1-202-ND	26.76	21.68	19.80	18.74
5K	.021	3540S-1-502-ND	26.76	21.68	19.80	18.74
10K	.019	3540S-1-103-ND	26.76	21.68	19.80	18.74
20K	.014	3540S-1-203-ND	26.76	21.68	19.80	18.74
50K	.011	3540S-1-503-ND	29.76	24.10	22.02	20.84
100K	.008	3540S-1-104-ND	33.44	27.08	24.75	23.40
		Hybritron				
1K	Essentially Infinite	3541H-1-102-ND	56.56	45.81	41.85	39.59
5K		3541H-1-502-ND	56.56	45.81	41.85	39.59
10K		3541H-1-103-ND	56.56	45.81	41.85	39.59

SERIES 3852
2 Watt Cermet 3/4” (19.05mm) Diameter Panel Control

- **Resistance Tolerance:** ±10%
- **Continuity:** Maintained for full mechanical angle
- **Effective Electrical Angle:** 250° ±5°
- **Contact Resistance Variation:** ±3% of total resistance or 3Ω (whichever is greater)
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 900VAC minimum; 70,000 Feet: 350VAC minimum)
- **Insulation Resistance (500VDC):** 1,000MΩ minimum

Mounting hardware included.

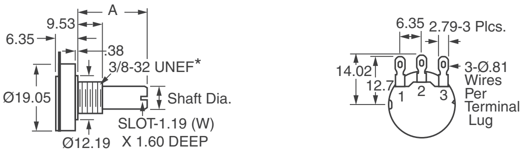

* 3852C – 1/4 - 32 UNEF

Ω	Dim. A (mm)	Shaft Dia. (mm)	Digi-Key Part No.	Price Each 1	25	50	100	250
1K	12.7	6.35	3852A-162-102AL-ND	9.16	7.12	5.83	4.93	4.58
1K	22.20	6.35	3852A-282-102AL-ND	9.16	7.12	5.83	4.93	4.58
5K	22.20	6.35	3852A-282-502AL-ND	9.16	7.12	5.83	4.93	4.58
10K	22.20	6.35	3852A-282-103AL-ND	9.16	7.12	5.83	4.93	4.58
10K	12.7	6.35	3852A-162-103AL-ND	9.16	7.12	5.83	4.93	4.58
100K	22.20	6.35	3852A-282-104AL-ND	9.16	7.12	5.83	4.93	4.58
10K	22.20	3.18	3852C-282-103AL-ND	9.16	7.12	5.83	4.93	4.58

SERIES 6639 — 1 Watt Conductive Plastic - Bushing Mount

Dim. in mm

- **Resistance Tolerance:** Standard ±15%
- **Resolution:** Essentially infinite
- **Effective Electrical Angle:** 340° +3°
- **End Voltage:** 0.5% maximum
- **Output Smoothness:** 0.1%
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 750VAC minimum)
- **Insulation Resistance (500 VDC):** 500MΩ minimum

Mounting hardware included.

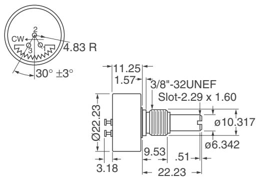

Ω	Digi-Key Part No.	Price Each 1	50	100	500
1K	6639S-1-102-ND	11.46	9.29	8.48	8.30
5K	6639S-1-502-ND	11.46	9.29	8.48	8.30
10K	6639S-1-103-ND	11.46	9.29	8.48	8.30

SERIES H-22, H-23, H-46, H-550, CT-23 and CT-26 Turns-Counting Dials

H-22 and H-23 Series	H-46 Series	H-550 Series	CT-23 Series	CT-26 Series
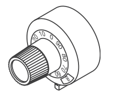	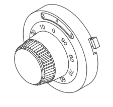	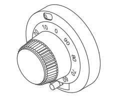	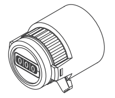	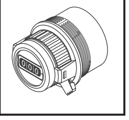

Turns	Read Out	Division/Turn	Brake	Dia. (mm)	Accepts Shaft Dia. (mm)	Body Finish	Digi-Key Part No.	Price Each 1	25	50
							H-22 Series			
0-15	Analog	50	Yes	22	6.35	Clear	H-22-6A-ND	8.54	8.12	7.69
					6.35	Black	H-22-6A-B-ND	11.54	8.88	7.85
					6.00	Clear	H-22-6M-ND	11.54	8.88	7.85
							H-23 Series			
0-15	Analog	50	Yes	22	6.35	Polished	H-23-6A-ND	11.54	8.88	7.85
					6.00		H-23-6M-ND	11.54	8.88	7.85
							H-46 Series			
0-20	Analog	100	Yes	46	6.35	Clear	H-46-6A-ND	16.90	16.06	15.21
							H-550 Series			
0-11	Analog	100	Yes	46	6.35	Clear	H-550-6A-1-ND	12.39	11.68	11.15
							CT-23 Series			
0-10	Digital	50	Yes	27	6.35	Clear	CT-23-6A-ND	20.42	15.63	14.81
					6.00		CT-23-6M-ND	20.42	15.63	14.81
							CT-26 Series			
0-10	Digital	50	Yes	28	6.35	Clear	CT-26-6A-ND	20.42	15.63	14.81
					6.00		CT-26-6M-ND	20.42	15.63	14.81

SERIES 3500
2 Watt - 10 Turn Wirewound

Dim. in mm

- **Resistance Tolerance:** ±3%
- **Independent Linearity:** ±0.20%
- **Effective Electrical Angle:** 3600° +10°, -0°
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea level: 1,500VAC minimum); 70,000 Feet: 400VAC minimum
- **Insulation Resistance (500VDC):** 1,000MΩ minimum

Mounting hardware included.

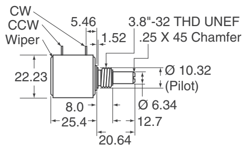

Ω	Resolution %	Digi-Key Part No.	Price Each 1	25	100	500	1,000
1K	.030	3500S-2-102L-ND	41.75	33.82	30.91	29.23	27.15
5K	.018	3500S-2-502L-ND	41.75	33.82	30.91	29.23	27.15
10K	.019	3500S-2-103L-ND	41.75	33.82	30.91	29.23	27.15

SERIES 3680
2 Watt Pushbutton Cermet

- **Resistance Tolerance:** ±3%
- **Resolution:** 3682: 1%; 3683: 0.1%
- **Power Rating:** +25°C: 2 Watts
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1000VAC minimum)

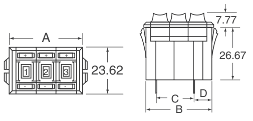

Ω	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	100	500	1,000
10K	26.67	25.15	10.67	11.94	3682S-1-103L-ND	27.34	22.14	20.23	19.14	17.78
1K	37.08	35.31	18.54	11.94	3683S-1-102L-ND	40.46	32.77	29.94	28.32	26.30
5K	37.08	35.31	18.54	11.94	3683S-1-502L-ND	40.46	32.77	29.94	28.32	26.30
10K	37.08	35.31	18.54	11.94	3683S-1-103L-ND	40.46	32.77	29.94	28.32	26.30

Washable, Conductive Plastic Potentiometers — 1/2 Watt

SERIES 392JB

- **Power Rating:** .5 watt at 70°C, voltage not to exceed rating
- **Electrical/Mechanical Rotation:** 295° ±5°
- **Effective Rotation:** 265° +0°, -10°
- **Resistance Tolerance:** ±10% through 500K. ±20% at 1MEG
- **Dielectric Strength:** 750VAC for 60 seconds, at ATM pressure. 350VAC for 60 seconds, 3.4 in. Hg.
- **Working Voltage:** 350VDC across terminals, but power not to exceed rating
- **Operational Temperature Range:** -40°C ~ 120°C

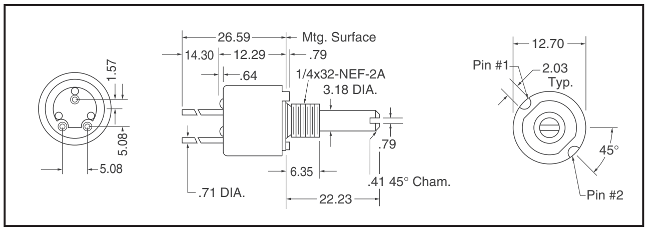

Series 392JB: Plastic Shaft and Bushing
RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500) 102 (1K) 252 (2.5K)	502 (5K) 103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1MEG)

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	250	500	Honeywell Part No.
100 ~ 1MEG	392JB(Code)-ND	5.60	4.10	3.52	3.35	3.13	3.02	392JB(Value)

† For complete part number, substitute corresponding code from Resistance Code Chart.

Conductive Plastic Potentiometers — 1 Watt

SERIES 381

The "Quiet One" with 1% dynamic noise and 5% independent linearity.

Specifications:

- **Resistance Tolerance:** Linear: ±10% up to 500K; ±20% above 500K
- **Power Rating (Watts):** 1W at 70°C, voltage not to exceed rating
- **Mechanical and Electrical Rotation:** 300° ±5° without switch
- **Working Voltage:** 350VDC across end terminals, but power not to exceed rating
- **Effective Rotation:** 270° +0° -10°
- **Dielectric Strength:** 1,000VAC for 60 Seconds ATM

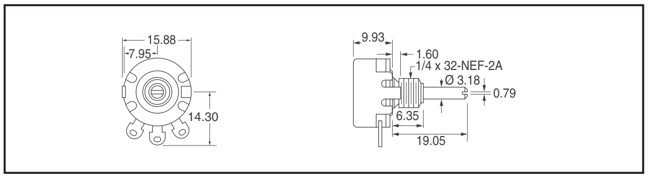

RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500) 102 (1K) 252 (2.5K)	502 (5K) 103 (10K) 253 (25K) 503 (50K) 104 (100K)	254 (250K) 504 (500K) 105 (1MEG) 255 (2.5MEG) 505 (5MEG)

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	Honeywell Part No.
100 ~ 5MEG	381N(Code)-ND	9.64	7.04	6.23	381N(Value)

† For complete part number, substitute corresponding code from Resistance Code Chart.

Conductive Plastic Potentiometers — 1/4 Watt

SERIES 574SFx, 575SSx

- **Resistance Tolerance:** ±20%
- **Power Rating (Watts):** 0.25W at 70°C
- **Mechanical and Electrical Rotation:** 300° ±5°
- **Working Voltage:** 350VAC maximum
- **Effective Rotation:** 270°

Hardware not included.

RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)
102 (1K) 103 (10K)	503 (50K) 104 (100K)

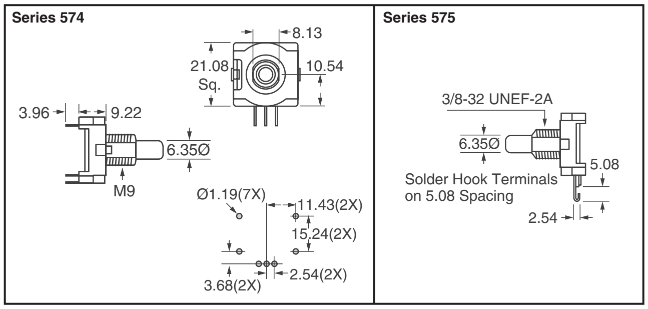

Resistance Range (Ω)	Shaft Type	Digi-Key† Part No.	Price Each 1	10	50	100	Honeywell Part No.
10K ~ 100K	Flatted	574SF(Code)-ND	3.09	2.07	1.79	1.68	574SX1M48F(Value)SD
10K ~ 100K	Slotted	574SS(Code)-ND	3.09	2.07	1.79	1.68	574SX1M48S(Value)SD
1K ~ 50K	Flatted	575SF(Code)-ND	2.62	1.72	1.44	1.40	575SX1A48F(Value)SS
1K ~ 50K	Slotted	575SS(Code)-ND	2.62	1.72	1.44	1.40	575SX1A48S(Value)SS
Mounting Nut (574 Series)		D02318603-ND	—	.13	.12	.11	D02318603
Mounting Nut (575 Series)		01051301-ND	—	.26	.23	.21	D01051301
Lock Washer		01070602-ND	—	.48	.36	.34	D01070602

† For complete part number, substitute corresponding code from Resistance Code Chart.

Conductive Plastic Potentiometers — 1/2 Watt, 1 Watt

SERIES 308N, 308NPC and 309NPC

- **Resistance Tolerance:** ±10% up to 500K. ±20% above
- **Electrical and Mechanical Rotation:** 295° ±5°
- **Dielectric Strength:** 750VAC (308 Series), 900VAC (309 Series), for 60 SEC ATM
- **Working Voltage:** 350VDC across terminals
- **Power Rating:** .5 watt at 70°C (308 Series), 1 watt at 150°C (309 Series)
- **Operating Temperature:** -40° ~ 120°C (308 Series), -40°C ~ 150°C (309 Series)
- **Rotational Life:** 50,000 cycles under load (308 Series), 25,000 cycles under load (309 Series)

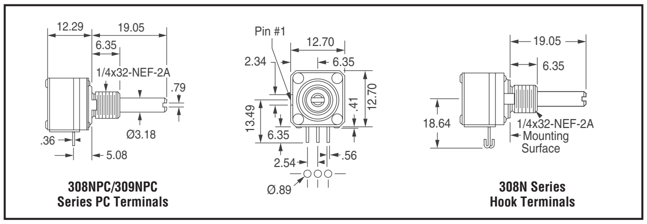

308NPC/309NPC
Series PC Terminals

308N Series
Hook Terminals

RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500) 102 (1K) 252 (2.5K)	502 (5K) 103 (10K) 253 (25K) 503 (50K) 104 (100K)	254 (250K) 504 (500K) 105 (1MEG) 255 (2.5MEG) 505 (5MEG)

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	250	Honeywell Part No.
100 ~ 5MEG	308N(Code)-ND	6.63	4.91	4.33	4.06	3.85	308N(Value)
100 ~ 1MEG	308NPC(Code)-ND	6.76	5.01	4.41	4.14	3.93	308NPC(Value)
100 ~ 5MEG	309NPC(Code)-ND	7.94	5.72	5.09	4.77	4.53	309NPC(Value)

† For complete part number, substitute corresponding code from Resistance Code Chart.
N = Shaft: 1/8 in. (3.18mm) diameter x 3/4 in. (19.05mm)

Conductive Plastic Potentiometers — 1/2 Watt

SERIES 590SX

- **Resistance Tolerance:** ±10%
- **Power Rating (Watts):** 0.5W at 70°C
- **Mechanical and Electrical Rotation:** 295° ±5°
- **Working Voltage:** 350VAC maximum across end terminals, but within power rating
- **Effective Rotation:** 265° ±5°

Hardware included.

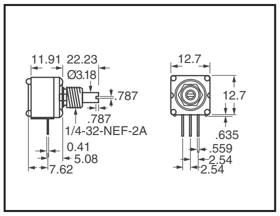

RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
102 (1K)	502 (5K)	103 (10K)◆

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	Honeywell Part No.
1K ~ 10K	590SX(Code)-ND	5.30	3.83	3.24	3.14	590SX1N56S(Value)SP

◆ ***RoHS Compliant*** † For complete part number, substitute corresponding code from Resistance Code Chart.

CTS 15.08mm Trimmer Potentiometers Series 201

U201

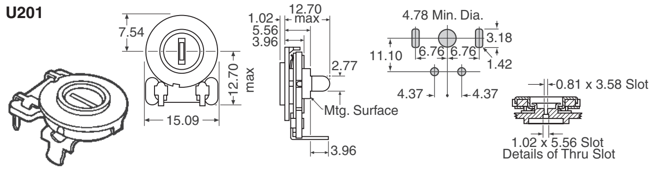

X201

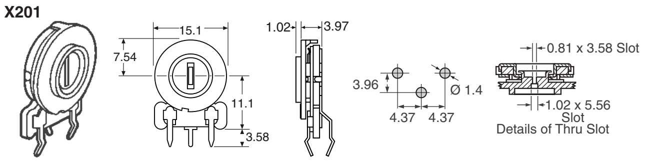

Features:
- Miniature size — knob 15.08mm diameter
- Rim to guide screwdriver
- Printed circuit mounting with knob parallel or perpendicular to printed circuit board
- Wide resistance range
- Knob slotted for front or rear screwdriver adjustment
- Reliable CTS composition resistance element
- Press fit self-supporting mounting

Electrical and Mechanical Specifications:
- **Resistance Range:** 100Ω through 1MΩ
- **Resistance Tolerance:** ±20%
- **Power Rating, Watts:** Below 5000Ω — 1/4 watt @ 40°C; 5000Ω and above — 1/4 watt @ 55°C
- **Voltage Rating:** 350VDC
- **Resistance Tapers:** Linear
- **Adjusting Knob Information:** Blue nylon knob, 15.08mm diameter, slotted for front or rear screwdriver adjustment with rim to guide screwdriver.
- **Angle of Rotation:** Total rotation — 260° ± 5°

Res. Ω	Digi-Key Part No. Laydown Version	Digi-Key Part No. Standup Version	Price Each 1	10	100	500	1,000	CTS Part No. Laydown Version	CTS Part No. Standup Version
100	201UR101B-ND	201XR101B-ND◆	.50	.46	.42	.33	.27	201UR101B	201XR101B
250	201UR251B-ND◆	201XR251B-ND◆	.50	.46	.42	.33	.27	201UR251B	201XR251B
500	201UR501B-ND	201XR501B-ND◆	.50	.46	.42	.33	.27	201UR501B	201XR501B
1K	201UR102B-ND◆	201XR102B-ND◆	.50	.46	.42	.33	.27	201UR102B	201XR102B
2.5K	201UR252B-ND◆	201XR252B-ND◆	.50	.46	.42	.33	.27	201UR252B	201XR252B
5K	201UR502B-ND◆	201XR502B-ND◆	.50	.46	.42	.33	.27	201UR502B	201XR502B
10K	201UR103B-ND◆	201XR103B-ND◆	.50	.46	.42	.33	.27	201UR103B	201XR103B
25K	201UR253B-ND◆	201XR253B-ND◆	.50	.46	.42	.33	.27	201UR253B	201XR253B
50K	201UR503B-ND◆	201XR503B-ND◆	.50	.46	.42	.33	.27	201UR503B	201XR503B
100K	201UR104B-ND◆	201XR104B-ND◆	.50	.46	.42	.33	.27	201UR104B	201XR104B
250K	201UR254B-ND	201XR254B-ND◆	.50	.46	.42	.33	.27	201UR254B	201XR254B
500K	201UR504B-ND◆	201XR504B-ND◆	.50	.46	.42	.33	.27	201UR504B	201XR504B
1M	201UR105B-ND◆	201XR105B-ND◆	.50	.46	.42	.33	.27	201UR105B	201XR105B

◆ ***RoHS Compliant***

10mm Trimmer Potentiometers Series 262

U262

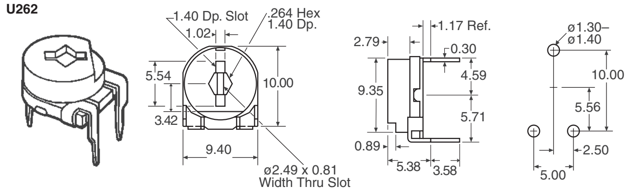

X262

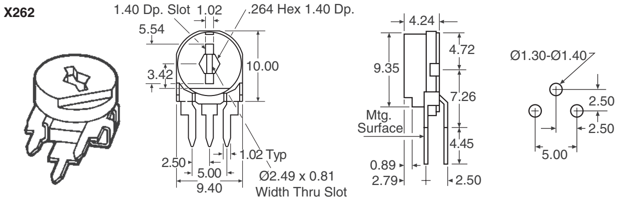

Features:
- Miniature size
- Adjustment knob slotted for front or rear screwdriver adjustment
- PC mounting with knob parallel or perpendicular to printed circuit board
- Low height profile
- Wide resistance range
- Reliable screened CTS composition element

Electrical and Mechanical Specifications:
- **Resistance Range:** Standard — 500Ω through 1MΩ
- **Resistance Tolerance:** Standard – ±20%
- **Power Rating Watts:** 0.15 watts @ 40°C
- **Voltage Rating:** Operating maximum — 350VDC
- **Resistance Tapers:** Linear
- **Adjustment Knob:** Color coded nylon knob with hex hole for top adjustment plus slot for either top or bottom screwdriver adjustment
- **Angle of Rotation:** Total rotation — 265° ±5%
- **Rotational Torque:** .3 to 5 inch ounces
- **Stop Strength:** 16 inch ounces

Res. Ω	Color	Digi-Key Part No. Laydown Version	Digi-Key Part No. Standup Version	Price Each 1	10	100	500	1,000	CTS Part No. Laydown Version	CTS Part No. Standup Version
500	Green	U262R501B-ND◆	X262R501B-ND◆	.51	.48	.43	.34	.28	U262R501B	X262R501B
1K	Yellow	U262R102B-ND◆	X262R102B-ND	.51	.48	.43	.34	.28	U262R102B	X262R102B
2.5K	Red	U262R252B-ND◆	X262R252B-ND	.51	.48	.43	.34	.28	U262R252B	X262R252B
5K	Blue	U262R502B-ND◆	X262R502B-ND◆	.51	.48	.43	.34	.28	U262R502B	X262R502B
10K	White	U262R103B-ND◆	X262R103B-ND◆	.51	.48	.43	.34	.28	U262R103B	X262R103B
25K	Black	U262R253B-ND◆	X262R253B-ND◆	.51	.48	.43	.34	.28	U262R253B	X262R253B
50K	Orange	U262R503B-ND◆	X262R503B-ND◆	.51	.48	.43	.34	.28	U262R503B	X262R503B
100K	Gray	U262R104B-ND	X262R104B-ND◆	.51	.48	.43	.34	.28	U262R104B	X262R104B
250K	Violet	U262R254B-ND◆	X262R254B-ND◆	.51	.48	.43	.34	.28	U262R254B	X262R254B
500K	Brown	U262R504B-ND◆	X262R504B-ND	.51	.48	.43	.34	.28	U262R504B	X262R504B
1M	Lt. Blue	U262R105B-ND◆	X262R105B-ND	.51	.48	.43	.34	.28	U262R105B	X262R105B

◆ ***RoHS Compliant***

Two Axis, Ministick and Micro-stick (Joystick) Controller Series 252, 253 and 254

SPECIFICATIONS:

Controller without Switch: Resistance Tolerance: Standard: ±20% **Insulation Resistance:** 100MΩ minimum @ 250VDC **Power Rating:** 0.0125 watt **Maximum Operating Voltage:** Maximum 50VAC or 5VDC **Angle of Rotation:** 60° maximum **Life:** 1,000,000 cycles

Compact Size	
Series	**Dimensions (mm)**
252	20 x 21 x 13
253	20 x 18 x 6
254	11 x 11 x 5

Controller with Momentary Switch: Contact Resistance: 100mΩ maximum **Dielectric Strength:** 250VAC 50/60 Hz for 1 minute **Insulation Resistance:** 100MΩ minimum @ 100VDC **Operational Force:** 252 and 254 Series: 800gf; 253 Series: 1200gf **Power Rating:** 253 and 254 Series: 5VDC 5mA maximum; 252 Series: 12VDC 50mA maximum **Travel:** 0.5 +0.5 -0.4mm **Life:** 252 and 253 Series: 500,000 cycles; 254 Series: 200,000 cycles

Fig.	Res. Ω	Description	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
1	10K	Controller without Switch	252A103B60NA-ND	5.74	5.33	5.18	4.15	252A103B60NA
	10K	Controller with Switch	252A103B60NB-ND	6.09	5.66	5.53	4.43	252A103B60NB
	100K	Controller without Switch	252A104B60NA-ND	5.74	5.33	5.18	4.15	252A104B60NA
	100K	Controller with Switch	252A104B60NB-ND	6.09	5.66	5.53	4.43	252A104B60NB
2	10K	Controller with Switch	253A103B45NB-ND	6.04	5.61	5.44	4.41	253A103B45NB
	10K	Controller without Switch	253A103B45NA-ND	5.81	5.40	5.23	4.24	253A103B45NA
	100K	Controller with Switch	253A104B45NB-ND	6.04	5.61	5.44	4.41	253A104B45NB
	100K	Controller without Switch	253A104B45NA-ND	5.81	5.40	5.23	4.24	253A104B45NA
3	10K	Controller without Switch	254SA103B50A-ND	12.28	11.41	11.06	8.95	254SA103B50A
	10K	Controller with Switch	254SA103B50B-ND	13.18	12.24	11.87	9.61	254SA103B50B
	100K	Controller without Switch	254SA104B50A-ND	12.68	11.78	11.41	9.24	254SA104B50A
	100K	Controller with Switch	254SA104B50B-ND	13.58	12.61	12.23	9.90	254SA104B50B
4	10K	Controller without Switch	254TA103B50A-ND	11.77	10.94	10.60	8.58	254TA103B50A
	10K	Controller with Switch	254TA103B50B-ND	12.68	11.78	11.41	9.24	254TA103B50B
	100K	Controller without Switch	254TA104B50A-ND	12.17	11.31	10.96	8.87	254TA104B50A
	100K	Controller with Switch	254TA104B50B-ND	13.08	12.15	11.77	9.53	254TA104B50B

Fig. 1 — 252 Series

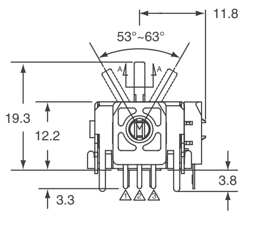

Fig. 2 — 253 Series

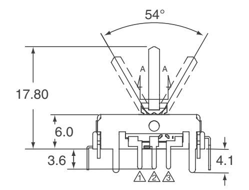

Fig. 3 — 254S Series

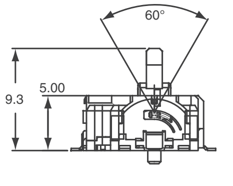

Fig. 4 — 254T Series

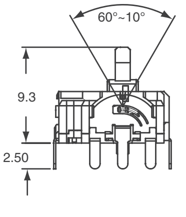

Note: For Additional Specifications, please see Manufacturer's Data Sheet.

CTS Stock Pot™ Potentiometers 23.81mm Diameter Series 450

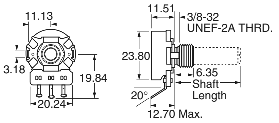

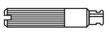
Fig. 1 — SD Slot

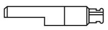
Fig. 2 — Flat

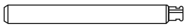
Fig. 3 — Round

Dim. in mm

Features:

- Off the shelf availability • Wide Resistance Range • Available with three shaft styles: knurled and slotted, flatted or round • Economical in limited volume applications

Electrical and Mechanical Specifications:

• **Resistance Range:** 500Ω through 500KΩ • **Resistance Tolerance:** ±20% • **Power Rating, Watt:** Through 10KΩ, 1/2 watt; above 10KΩ through 100KΩ, 1/3 watt; above 100KΩ, 1/4 watt • **Voltage Rating:** Bushing to terminals: High pot test, one minute - 1080VAC • **Shaft Information:** Diameter: 6.35mm (Diameter over knurl 6.10mm ~ 6.25mm) • **Angle of Rotation:** Total rotation – 300° ±5°; Effective Rotation approximately 300° • **Bushing Information:** Material - Diecast zinc; Diameter – EIA st. 3/8” - 32 UNEF-2A thread; Length - 6.35mm ± .40mm • **Terminal Information:** Solder lug, formed to rear • **Locating Lug:** Left side, terminals down

Mounting hardware included.

To determine shaft length, use appropriate variable (1-8) shown below.

Shaft Length (mm)	12.70	15.88	19.05	22.23	25.40	50.80
Figure 1 - Slot	1	2	3	4	5	—
Figure 2 - Flat	—	—	—	6	7	—
Figure 3 - Round	—	—	—	—	—	8

Res. Ω	Digi-Key Part No.*	Price Each 1	10	100	250	500	1,000
500	450D501-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
1K	450D102-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
2.5K	450D252-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
5K	450D502-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
10K	450D103-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
25K	450D253-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
50K	450D503-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
100K	450D104-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
250K	450D254-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
500K	450D504-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41

*For complete part number, substitute corresponding variable (from chart above) for ☐.

6mm Square Cermet Trimmer Potentiometer Series 306

Dim in mm

Horizontal

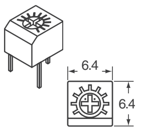

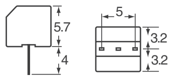

306H

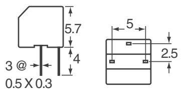

306U

Vertical

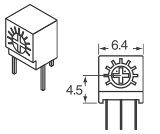

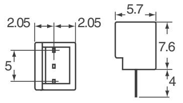

306K

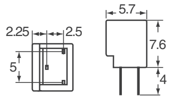

306J

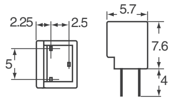

306X

Res. Ω	Digi-Key Part No. Horizontal Bulk	Digi-Key Part No. Horizontal Tape & Reel	Digi-Key Part No. Horizontal Bulk	Digi-Key Part No. Vertical Bulk	Digi-Key Part No. Vertical Tape & Reel	Digi-Key Part No. Vertical Bulk	Digi-Key Part No. Vertical Bulk
10	—	306HC100BRTR-ND	—	306KC100B-ND	306KC100BRTR-ND	306JC100B-ND	306XC100B-ND
20	—	—	306UC200B-ND	306KC200B-ND	306KC200BRTR-ND	306JC200B-ND	306XC200B-ND
50	—	306HC500BRTR-ND	—	306KC500B-ND	306KC500BRTR-ND	306JC500B-ND	306XC500B-ND
100	—	306HC101BRTR-ND	306UC101B-ND	306KC101B-ND	306KC101BRTR-ND	306JC101B-ND	306XC101B-ND
200	—	306HC201BRTR-ND	—	306KC201B-ND	306KC201BRTR-ND	306JC201B-ND	306XC201B-ND
500	—	—	306UC501B-ND	306KC501B-ND	306KC501BRTR-ND	306JC501B-ND	306XC501B-ND
1K	—	—	—	306KC102B-ND	—	306JC102B-ND	306XC102B-ND
2K	—	—	—	—	306KC202BRTR-ND	306JC202B-ND	306XC202B-ND
5K	—	306HC502BRTR-ND	—	—	306KC502BRTR-ND	—	306XC502B-ND
10K	—	—	—	—	306KC103BRTR-ND	—	—
20K	—	—	—	—	306KC203BRTR-ND	—	—
50K	—	306HC503BRTR-ND	—	306KC503B-ND	306KC503BRTR-ND	306JC503B-ND	—
100K	—	—	306UC104B-ND	—	306KC104BRTR-ND	—	306XC104B-ND
200K	306HC204B-ND	306HC204BRTR-ND	306UC204B-ND	306KC204B-ND	306KC204BRTR-ND	306JC204B-ND	306XC204B-ND
500K	306HC504B-ND	306HC504BRTR-ND	—	306KC504B-ND	306KC504BRTR-ND	306JC504B-ND	306XC504B-ND
1M	—	306HC105BRTR-ND	—	306KC105B-ND	306KC105BRTR-ND	306JC105B-ND	306XC105B-ND
2M	306HC205B-ND	306HC205BRTR-ND	—	306KC205B-ND	306KC205BRTR-ND	306JC205B-ND	306XC205B-ND

Features: • Easy and stable adjustment • Cross-slot knob for ease of adjustment • Auto insertion with radial taping

Electrical and Mechanical Specifications: • Taper: Linear • Resistance Tolerance: ±20% • Power Rating: 0.5 watt at 70°C, 0 watts at 125°C • Maximum Working Voltage: 200V or $\sqrt{PR}$ = V whichever is less • Temperature Range: -55°C ~ 125°C • Temperature Coefficient: ±100ppm/°C (except 10Ω ±200 ppm/Cº) • Insulation Resistance: DC 500V, 1000MΩ minute • Dielectric Strength: AC 500V 1 minute • Operation Torque: 20 mN•m maximum • Stop Strength: 50 mN•m maximum

Series	Bulk Pricing 1	10	50	Tape & Reel Pricing 1,000
306HC/306KC	.54	5.00	20.75	640.00
306JC/306UC/306XC	.54	5.00	20.75	—

6mm Round Cermet Trimmer Potentiometer Series 307

Dim in mm

Horizontal

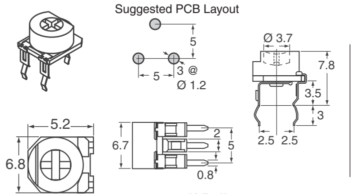

307U Bulk

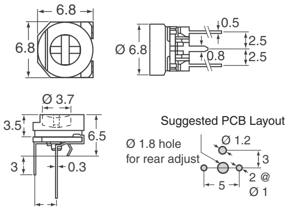

307U Tape and Reel

Vertical

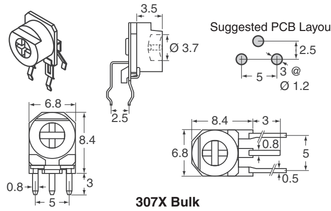

307X Bulk

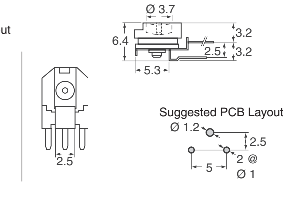

307X Tape and Reel

Res. Ω	Digi-Key Part No. Horizontal Bulk	Digi-Key Part No. Horizontal Tape & Reel	Digi-Key Part No. Vertical Bulk	Digi-Key Part No. Vertical Tape & Reel
100	307UC101E-ND	—	307XC101E-ND	307XC101ERTR-ND
200	—	307UC201ERTR-ND	—	307XC201ERTR-ND
500	307UC501E-ND	—	307XC501E-ND	307XC501ERTR-ND
1K	—	—	307XC102E-ND	—
5K	—	—	307XC502E-ND	307XC502ERTR-ND
10K	—	—	307XC103E-ND	—
50K	—	—	—	307XC503ERTR-ND
100K	—	—	307XC104E-ND	307XC104ERTR-ND
200K	307UC204E-ND	307UC204ERTR-ND	—	—
500K	307UC504E-ND	307UC504ERTR-ND	—	307XC504ERTR-ND
1M	—	—	—	307XC105ERTR-ND

Features:

- Front cross-slot adjustment • Auto insertion with radial taping • Radial taped parts are rear side adjustable

Electrical and Mechanical Specifications:

• Taper: Linear • Resistance Tolerance: ±25% • Power Rating: Cermet -0.3 watt at 70°C, 0 watts at 100°C • Maximum Working Voltage: 100V or $\sqrt{PR}$ = V • Temperature Range: -25°C ~ 100°C • Temperature Coefficient: ±250 ppm/°C • Rotation Angle: 240° ±10° • Operation Torque: Bulk; 2.94 ~ 29.4 mN•m Taped; 0.98 ~ 29.4 mN•m • Stop Strength: 49.00 mN•m maximum

Series	Bulk Pricing 1	10	50	Tape and Reel Qty.	Tape and Reel Pricing
307UC	.15	1.40	5.81	800	120.00
307XC	.15	1.40	5.81	1,000	150.00

CTS Wirewound Potentiometers - 5 Watt

Series 026

SPECIFICATIONS: Resistance Range: 5Ω ~ 25KΩ **Resistance Tolerance:** ±20% **Power Rating Watts:** 5 Watts @ 25°C Derated to No Load @ 105°C **Voltage Rating:** Operating maximum 500VDC **Shaft Information:** 1" FMS x .250" (25.40mm FMS x 6.35mm) Diameter, Metal, Plain Round **Angle of Rotation:** 300° ±5° **Bushing Information:** Diameter: EIA Std. 3/8"-32, UNEF-2A Thread Length: 3/8" ± 1/64" (9.52mm ± .40mm) **Terminal Information:** Solder Lug, Formed to Rear **Locating Lug:** Left Side, Terminals Down

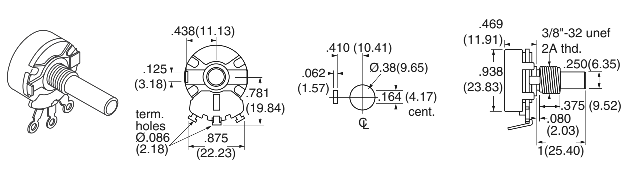

Res. Ω	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
5	CT2150-ND	3.61	3.36	2.79	2.52	026TB32R5AOB1A1
10	CT2151-ND◆	3.61	3.36	2.79	2.52	026TB32R100B1A1
25	CT2152-ND	3.61	3.36	2.79	2.52	026TB32R250B1A1
50	CT2153-ND◆	3.61	3.36	2.79	2.52	026TB32R500B1A1
100	CT2154-ND◆	3.61	3.36	2.79	2.52	026TB32R101B1A1
250	CT2155-ND◆	3.61	3.36	2.79	2.52	026TB32R251B1A1
500	CT2156-ND◆	3.61	3.36	2.79	2.52	026TB32R501B1A1
1K	CT2157-ND◆	3.61	3.36	2.79	2.52	026TB32R102B1A1
5K	CT2158-ND◆	3.61	3.36	2.79	2.52	026TB32R502B1A1
10K	CT2159-ND◆	3.61	3.36	2.79	2.52	026TB32R103B1A1
25K	CT2160-ND◆	3.61	3.36	2.79	2.52	026TB32R253B1A1

◆ *RoHS Compliant*

Carbon Potentiometers - 1/4 Watt

Series 270

Fig. 1

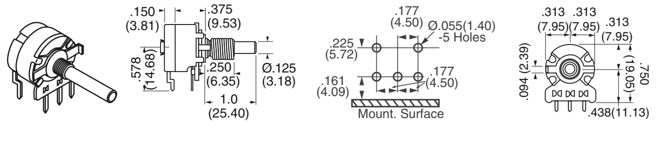

Fig. 2

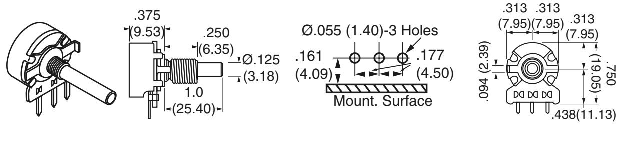

SPECIFICATIONS:
Resistance Range: 500Ω through 1MΩ
Resistance Tolerance: ±20%
Power Rating Watts: 1/4 Watt through 100K, 1/5 Watt above 100K
Voltage Rating: Operating Maximum: 500VDC
Mechanical Rotation: 300° ±5°
Available Power Switch: Type: Rotary Rating: 3A @ 125VAC (UL Approved)

Effective Rotation: Without Switch 300° (Approx.), with Switch 290° (Approx.)
Resistance Taper: Linear, Logarithmic
Locating Lug: Left Side, Terminals Down
Bushing Information: Length: 1/4" (6.35mm), Thread Size: 1/4"-32, diameter: 1/4" (6.35mm)
Shaft Information: Length: 1" (25.40mm) including bushing, Diameter: .125" (3.18mm)

Digi-Key Part No.	Price Each 1	10	50	100	250
CT2223-ND - CT2233-ND	3.48	3.24	2.69	2.43	2.16
CT2201-ND - CT2211-ND	2.71	2.52	2.10	1.89	1.68
CT2212-ND - CT2222-ND	3.53	3.28	2.73	2.46	2.19
CT2234-ND - CT2244-ND	2.77	2.58	2.15	1.94	1.72

Linear Taper with Switch Fig. 1			Linear Taper without Switch Fig. 2			Logarithmic Taper with Switch Fig. 1			Logarithmic Taper without Switch Fig. 2		
Res. Ω	**Digi-Key Part No.**	**CTS Part No.**	**Res. Ω**	**Digi-Key Part No.**	**CTS Part No.**	**Res. Ω**	**Digi-Key Part No.**	**CTS Part No.**	**Res. Ω**	**Digi-Key Part No.**	**CTS Part No.**
500	CT2223-ND◆	270X232A501B1B1	500	CT2201-ND◆	270X232A501B1A1	500	CT2212-ND◆	270X232A501B2B1	500	CT2234-ND	270X232A501B2A1
1K	CT2224-ND◆	270X232A102B1B1	1K	CT2202-ND◆	270X232A102B1A1	1K	CT2213-ND◆	270X232A102B2B1	1K	CT2235-ND	270X232A102B2A1
2.5K	CT2225-ND◆	270X232A252B1B1	2.5K	CT2203-ND◆	270X232A252B1A1	2.5K	CT2214-ND	270X232A252B2B1	2.5K	CT2236-ND	270X232A252B2A1
5K	CT2226-ND◆	270X232A502B1B1	5K	CT2204-ND◆	270X232A502B1A1	5K	CT2215-ND	270X232A502B2B1	5K	CT2237-ND◆	270X232A502B2A1
10K	CT2227-ND◆	270X232A103B1B1	10K	CT2205-ND◆	270X232A103B1A1	10K	CT2216-ND◆	270X232A103B2B1	10K	CT2238-ND◆	270X232A103B2A1
25K	CT2228-ND◆	270X232A253B1B1	25K	CT2206-ND◆	270X232A253B1A1	25K	CT2217-ND	270X232A253B2B1	25K	CT2239-ND◆	270X232A253B2A1
50K	CT2229-ND◆	270X232A503B1B1	50K	CT2207-ND◆	270X232A503B1A1	50K	CT2218-ND◆	270X232A503B2B1	50K	CT2240-ND	270X232A503B2A1
100K	CT2230-ND◆	270X232A104B1B1	100K	CT2208-ND	270X232A104B1A1	100K	CT2219-ND◆	270X232A104B2B1	100K	CT2241-ND◆	270X232A104B2A1
250K	CT2231-ND	270X232A254B1B1	250K	CT2209-ND◆	270X232A254B1A1	250K	CT2220-ND	270X232A254B2B1	250K	CT2242-ND	270X232A254B2A1
500K	CT2232-ND	270X232A504B1B1	500K	CT2210-ND	270X232A504B1A1	500K	CT2221-ND◆	270X232A504B2B1	500K	CT2243-ND	270X232A504B2A1
1MEG	CT2233-ND◆	270X232A105B1B1	1 MEG	CT2211-ND◆	270X232A105B1A1	1 MEG	CT2222-ND	270X232A105B2B1	1 MEG	CT2244-ND◆	270X232A105B2A1

◆ *RoHS Compliant*

Carbon Potentiometers - 1/8 Watt

Series 296

Fig. 1 — Vertical Adjust

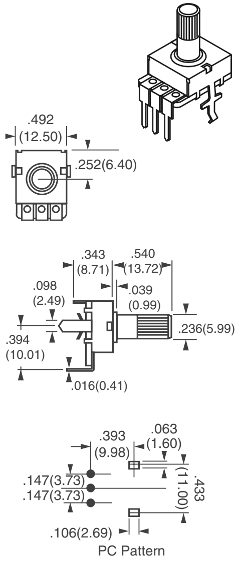

Fig. 2 — Horizontal Adjust

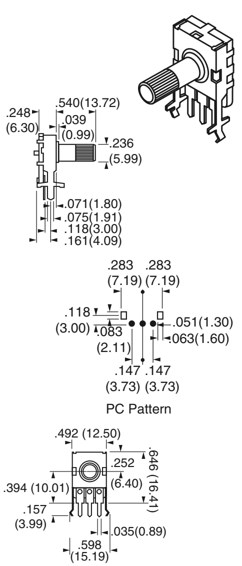

SPECIFICATIONS:

Resistance Range: 500Ω ~ 1MΩ **Resistance tolerance:** ±20% **Power Rating Watts:** 0.15 Watts @ 40°C derated to no load @ 85°C **Voltage Rating:** Across End Terminals: 250VDC **Rotational Torque:** 20-144gcm **Angle of Rotation:** Total rotation: 300° ±5°, Effective Rotation: 280° (Approximately) **Stops:** 0.57 N-m Minimum Stop Strength **Shaft Information:** Length: 13.72mm Beyond Cover, Style: Knurled, Diameter: 6mm. **Mounting Information:** P.C. Board Mounting

Fig.	Res. Ω	Description	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
1	500	Vertical	CT2261-ND	1.51	1.26	1.05	.84	296UD501B1N
	1K	Vertical	CT2262-ND◆	1.51	1.26	1.05	.84	296UD102B1N
	2.5K	Vertical	CT2263-ND	1.51	1.26	1.05	.84	296UD252B1N
	5K	Vertical	CT2264-ND◆	1.51	1.26	1.05	.84	296UD502B1N
	10K	Vertical	CT2265-ND◆	1.51	1.26	1.05	.84	296UD103B1N
	25K	Vertical	CT2266-ND	1.51	1.26	1.05	.84	296UD253B1N
	50K	Vertical	CT2267-ND	1.51	1.26	1.05	.84	296UD503B1N
	100K	Vertical	CT2268-ND◆	1.51	1.26	1.05	.84	296UD104B1N
	250K	Vertical	CT2269-ND	1.51	1.26	1.05	.84	296UD254B1N
	500K	Vertical	CT2270-ND	1.51	1.26	1.05	.84	296UD504B1N
	1MEG	Vertical	CT2271-ND	1.51	1.26	1.05	.84	296UD105B1N
2	500	Horizontal	CT2250-ND	1.51	1.26	1.05	.84	296XD501B1N
	1K	Horizontal	CT2251-ND	1.51	1.26	1.05	.84	296XD102B1N
	2.5K	Horizontal	CT2252-ND	1.51	1.26	1.05	.84	296XD252B1N
	5K	Horizontal	CT2253-ND◆	1.51	1.26	1.05	.84	296XD502B1N
	10K	Horizontal	CT2254-ND◆	1.51	1.26	1.05	.84	296XD103B1N
	25K	Horizontal	CT2255-ND◆	1.51	1.26	1.05	.84	296XD253B1N
	50K	Horizontal	CT2256-ND◆	1.51	1.26	1.05	.84	296XD503B1N
	100K	Horizontal	CT2257-ND◆	1.51	1.26	1.05	.84	296XD104B1N
	250K	Horizontal	CT2258-ND	1.51	1.26	1.05	.84	296XD254B1N
	500K	Horizontal	CT2259-ND	1.51	1.26	1.05	.84	296XD504B1N
	1MEG	Horizontal	CT2260-ND	1.51	1.26	1.05	.84	296XD105B1N

◆ *RoHS Compliant*

Precision Electronic Components Ltd.

MIL Style RV6 – 1/2 Watt Carbon Potentiometers

RV6L Series

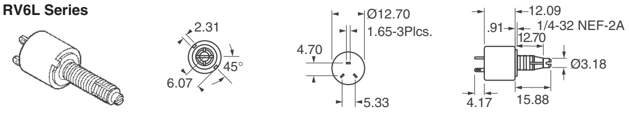

RV6N Series

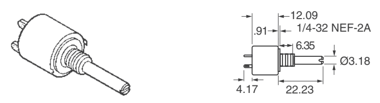

Specifications: • **Resistance Tolerance:** ±10% through 500K, ±20% from 1Meg • **Resistance Taper:** Linear • **Power Rating:** .5 Watts @ 70°C • **Dielectric Strength:** 750V RMS • **Working Voltage:** 350VDC maximum, but power not to exceed rating • **Operating Temperature:** -65°C ~ 125°C • **Mechanical Rotation:** 295° QPL listed under MIL R 94 Specifications. Metal housing, stainless steel shaft • Hardware included

Resistance Code Chart

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500)	102 (1K) 252 (2.5K) 502 (5K)	103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K)	105 (1Meg) 505 (5Meg)

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	250	Precision Part No.
100-5Meg	RV6L☐☐☐C-ND	11.83	10.92	8.19	5.28	4.85	RV6LAYSA(Code)A
100-1Meg	RV6N☐☐☐C-ND	10.73	9.90	7.43	4.79	4.39	RV6NAYSD(Code)A

† For complete number, substitute corresponding code (from Resistance Code Chart) for ☐☐☐.

Wirewound Precision Ten-Turn
2 Watt Potentiometers

GU Series

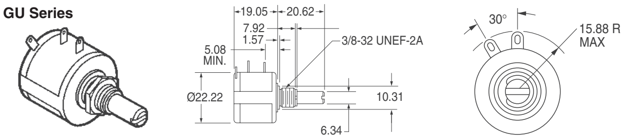

Specifications: • **Resistance Tolerance**: ±5% • **Electrical/Mechanical Rotation:** 3600° + 10° -0° • **Effective Rotation:** 3600° nominal • **Dielectric Strength:** 1000 VAC for 60 seconds at ATM • **Working Voltage:** 500 volts maximum • **Power rating:** 2 watt at 70° C • **Shaft Length and Size:** 13/16" (20.64mm) FMS screwdriver slotted, stainless steel • **Bushing Style:** 5/16" (7.95mm) • **Temperature Coefficient:** ± 20 PPM/°C • Hardware included

Resistance Code Chart

Code (Value)	Code (Value)	Code (Value)
101 (100) 201 (200) 501 (500) 102 (1K)	202 (2K) 502 (5K) 103 (10K) 203 (20K)	253 (25K) 503 (50K) 104 (100K)

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	250	Precision Part No.
100-100K	GU☐☐☐1S26-ND	17.88	14.76	13.86	13.32	12.18	GU(Code)1S26

† For complete number, substitute corresponding code (from Resistance Code Chart) for ☐☐☐.

Type SPR Washable
1/2 Watt Carbon Potentiometers

SPRU Series

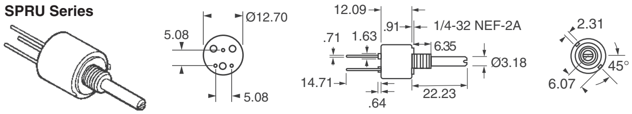

Specifications: • **Resistance Tolerance:** ±10% through 500K, ±20% from 1Meg ~ 5Meg • **Resistance Taper:** Linear • **Power Rating:** .5 Watts @ 70°C • **Dielectric Strength:** 750V RMS • **Working Voltage:** 350VDC maximum, but power not to exceed rating • **Operating Temperature:** -65°C ~ 125°C • **Mechanical Rotation:** 295° • Hardware included
Meets or exceeds MIL R 94 Specifications. Metal housing, stainless steel shaft.

Resistance Code Chart

Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500) 102 (1K)	252 (2.5K) 502 (5K) 103 (10K) 253 (25K)	503 (50K) 104 (100K) 254 (250K) 504 (500K)	105 (1Meg) 255 (2.5Meg) 505 (5Meg)

Resistance Range (Ω)	Digi-Key† Part- No.	Price Each 1	10	50	100	250	Precision Part No.
100-5Meg	SPRU☐☐☐C-ND	8.66	7.83	6.66	5.53	4.83	SPRU(Code)1S28

† For complete number, substitute corresponding code (from Resistance Code Chart) for ☐☐☐.

MIL Style – 2 Watt Carbon Potentiometers

RV4L, RV4N, RV4NJ-(Linear Taper Single Element)
KA (Logarithmic Taper Single Element)
KB (Reverse Logarithmic Taper Single Element)
KU (High Life* Linear Taper Single Element)
**Rotational Life: 100,000 cycles*
KKA (Logarithmic Taper Dual Element)
KKB (Reverse Logarithmic Taper Dual Element)
KKU (Linear Taper Dual Element)

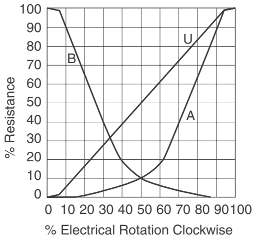

U = Linear Taper
A = Logarithmic Taper
B = Reverse Logarithmic Taper

Specifications:
- **Resistance Tolerance:** ±10% through 500K, ±20% from 1Meg
- **Power Rating:** 2 Watts @ 70°C, Derate to 0 Watt @ 120°C
- **Dielectric Strength:** 900V RMS
- **Working Voltage:** 500 volts, but power not to exceed rating
- **Operating Temperature:** -65°C ~ 125°C
- **Mechanical Rotation:** 314° QPL listed under MIL R 94 Specifications. Metal housing, stainless steel shaft. • Hardware included

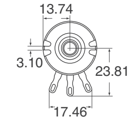

RV4L Series

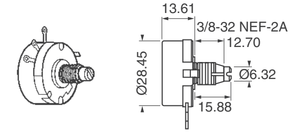

RV4N Series KA/KB/KU Series

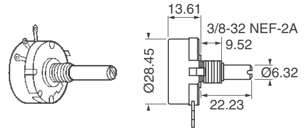

RV4NJ Series

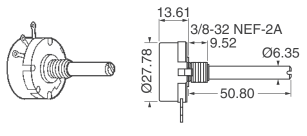

KKA/KKB/KKU Series

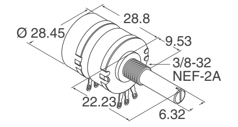

RV4L SERIES (LINEAR)

Code (Value)	Code (Value)	Code (Value)	Code (Value)
500 (50) 101 (100) 251(250) 501 (500)	102 (1K) 252 (2.5K) 502 (5K) 103 (10K)	153 (15K) 253 (25K) 353 (35K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1Meg)

KA SERIES (LOG TAPER)

Code (Value)	Code (Value)
502 (5K) 103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1Meg)

RV4N SERIES (LINEAR)

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
500 (50) 101 (100) 151 (150) 251 (250)	501 (500) 102 (1K) 152 (1.5K) 252 (2.5K)	502 (5K) 752 (7.5K) 103 (10K) 153 (15K)	253 (25K) 353 (35K) 503 (50K) 104 (100K)	254 (250K) 504 (500K) 105 (1Meg)

RV4NJ SERIES (LINEAR)

Code (Value)	Code (Value)
500 (50) 101 (100) 251 (250) 501 (500) 102 (1K) 252 (2.5K)	502 (5K) 103 (10K) 253 (25K) 104 (100K) 504 (500K) 105 (1Meg)

KB SERIES (REV LOG)

Code (Value)	Code (Value)
102 (1K) 502 (5K) 103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1Meg)

KKA SERIES (DUAL LOG)

Code (Value)	Code (Value)
102 (1K) 502 (5K) 103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1Meg)

KKB SERIES (DUAL REV LOG)

Code (Value)	Code (Value)
102 (1K) 502 (5K) 103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1Meg)

KKU SERIES (DUAL LINEAR)

Code (Value)
102 (1K) 502 (5K) 103 (10K)

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	250	Precision Part No.
50-1Meg	RV4L☐☐☐C-ND	8.37	7.57	6.44	5.35	4.67	RV4LAYSA(Code)A
50-1Meg	RV4N☐☐☐C-ND◆	8.01	7.24	6.16	5.12	4.47	RV4NAYSD(Code)A
50-1Meg	RV4NJ☐☐☐C-ND◆	8.01	7.24	6.16	5.12	4.47	RV4NAYSJ(Code)A
5K-1Meg	KA☐☐☐1S28-ND◆	11.44	10.34	8.80	7.31	6.38	KA(Code)1S28
5K	KU5021S28-HL-ND◆	11.54	10.44	8.88	7.38	6.44	KU5021S28-HL
1K-1Meg	KB☐☐☐1S28-ND	11.44	10.34	8.80	7.31	6.38	KB(Code)1S28
1K-1Meg	KKA☐☐☐1S28-ND	32.42	29.31	24.94	20.71	18.09	KKA(Code)1S28
1K-1Meg	KKB☐☐☐1S28-ND	32.42	29.31	24.94	20.71	18.09	KKB(Code)1S28
1K-10K	KKU☐☐☐1S28-ND	26.18	23.67	20.14	16.72	14.61	KKU(Code)1S28

◆ *RoHS Compliant*
† For complete number, substitute corresponding code (from Resistance Code Chart) for ☐☐☐.

Model 15 Turns Counting Dial

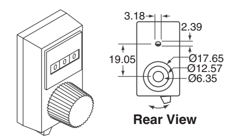

E15-1-11-ND: The left digit indicates the number of complete revolutions of the turning knob and the right two digits indicate the percent of a revolution. The unit registers a total count of 999.
E15-2-11-ND: The left two digits indicate the number of complete revolutions of the turning knob and the right two digits indicate the percent of a revolution. The unit registers a total count of 9999.

Description	Digi-Key Part No.	Price Each	Precision Part No.
Digital Dial (3 Digit/10 turn)	E15-1-11-ND	30.15	E15-1-11
Digital Dial (4 Digit/100 turn)	E15-2-11-ND	34.62	E15-2-11

KILO INTERNATIONAL

Machined Aluminum Instrumentation Knobs

Features:
- Precision aluminum machined surfaces from bar stock.
- Anodized finish gloss or matte.
- Colors are clear or black.
- Set screws accept a 1/16" hex allen wrench
- All knobs will accept round shafts with sizes indicated below.
- ML Model: One 6-32 set screw located 90° from the indicator line.
- DD, JD, DDS and SC Models: Two 6-32 set screws set 120° apart.
- HD Model: Two 6-32 set screws set 90° apart.
- OEJ, OED and OES Models: Single 6-32 set screw located 180° from indicator line.

Made in the USA

Fig. 1 – ML Model
"Soft Touch"

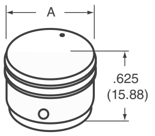

Fig. 2 – DD Model

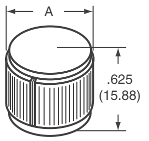

Fig. 3 – JD Model

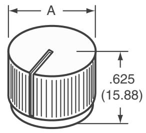

Fig. 4 – HD Model

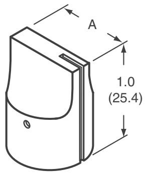

Fig. 5 – DDS Model

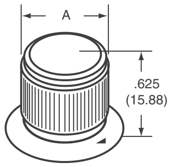

Fig. 6 – SC Model

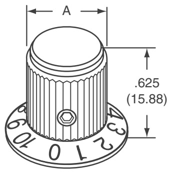

Fig. 7 – OEJ Model

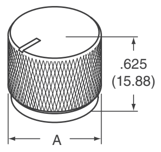

Fig. 8 – OEJ-ARROW Model

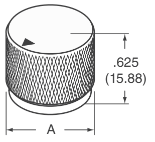

Fig. 9 – OED Model

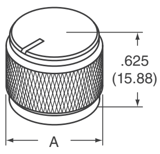

Fig. 10 – OED-ARROW Model

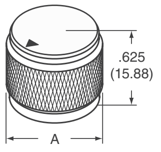

Fig. 11 – OES Model

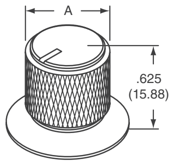

Fig. 12 – OES-ARROW Model

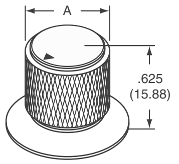

Fig.	Shaft Diameter Inch (mm)	Dimension A Inch (mm)	Digi-Key* Part No.	Price Each			
				1	10	50	100
1	.125 (3.18)	.50 (12.70)	226-□000-ND	5.69	5.06	4.18	3.80
	.125 (3.18)	.625 (15.875)	226-□069-ND	6.35	5.64	4.66	4.23
	.125 (3.18)	.75 (19.05)	226-□026-ND	6.95	6.18	5.10	4.64
	.125 (3.18)	.925 (23.50)	226-□027-ND	7.63	6.78	5.60	5.09
	.236 (6.00)	.50 (12.70)	226-□003-ND	5.69	5.06	4.18	3.80
	.236 (6.00)	.625 (15.875)	226-□071-ND	6.35	5.64	4.66	4.23
	.236 (6.00)	.75 (19.05)	226-□004-ND	6.95	6.18	5.10	4.64
	.236 (6.00)	.925 (23.50)	226-□028-ND	7.63	6.78	5.60	5.09
	.250 (6.35)	.50 (12.70)	226-□025-ND	5.69	5.06	4.18	3.80
	.250 (6.35)	.625 (15.875)	226-□070-ND	6.35	5.64	4.66	4.23
	.250 (6.35)	.75 (19.05)	226-□001-ND	6.95	6.18	5.10	4.64
	.250 (6.35)	.925 (23.50)	226-□002-ND	7.63	6.78	5.60	5.09
2	.125 (3.18)	.50 (12.70)	226-□005-ND	5.24	4.66	3.85	3.50
	.125 (3.18)	.625 (15.875)	226-□057-ND	5.36	4.76	3.93	3.57
	.125 (3.18)	.75 (19.05)	226-□042-ND	5.42	4.82	3.98	3.62
	.125 (3.18)	.925 (23.50)	226-□043-ND	5.69	5.06	4.18	3.80
	.236 (6.00)	.50 (12.70)	226-□008-ND	5.24	4.66	3.85	3.50
	.236 (6.00)	.625 (15.875)	226-□059-ND	5.36	4.76	3.93	3.57
	.236 (6.00)	.75 (19.05)	226-□009-ND	5.42	4.82	3.98	3.62
	.236 (6.00)	.925 (23.50)	226-□044-ND	5.69	5.06	4.18	3.80
	.250 (6.35)	.50 (12.70)	226-□041-ND	5.24	4.66	3.85	3.50
	.250 (6.35)	.625 (15.875)	226-□058-ND	5.36	4.76	3.93	3.57
	.250 (6.35)	.75 (19.05)	226-□006-ND	5.42	4.82	3.98	3.62
	.250 (6.35)	.925 (23.50)	226-□007-ND	5.69	5.06	4.18	3.80
3	.125 (3.18)	.50 (12.70)	226-□010-ND	5.24	4.66	3.85	3.50
	.125 (3.18)	.625 (15.875)	226-□060-ND	5.36	4.76	3.93	3.57
	.125 (3.18)	.75 (19.05)	226-□034-ND	5.42	4.82	3.98	3.62
	.125 (3.18)	.925 (23.50)	226-□035-ND	5.69	5.06	4.18	3.80
	.236 (6.00)	.50 (12.70)	226-□013-ND	5.24	4.66	3.85	3.50
	.236 (6.00)	.625 (15.875)	226-□062-ND	5.36	4.76	3.93	3.57
	.236 (6.00)	.75 (19.05)	226-□014-ND	5.42	4.82	3.98	3.62
	.236 (6.00)	.925 (23.50)	226-□036-ND	5.69	5.06	4.18	3.80
	.250 (6.35)	.50 (12.70)	226-□033-ND	5.24	4.66	3.85	3.50
	.250 (6.35)	.625 (15.875)	226-□061-ND	5.36	4.76	3.93	3.57
	.250 (6.35)	.75 (19.05)	226-□011-ND	5.42	4.82	3.98	3.62
	.250 (6.35)	.925 (23.50)	226-□012-ND	5.69	5.06	4.18	3.80
4	.125 (3.18)	.50 (12.70)	226-□015-ND	5.96	5.30	4.38	3.98
	.125 (3.18)	.625 (15.875)	226-□066-ND	6.64	5.90	4.87	4.43
	.125 (3.18)	.75 (19.05)	226-□030-ND	7.20	6.40	5.28	4.80
	.125 (3.18)	.925 (23.50)	226-□031-ND	8.10	7.20	5.94	5.40
	.236 (6.00)	.50 (12.70)	226-□018-ND	5.96	5.30	4.38	3.98
	.236 (6.00)	.625 (15.875)	226-□068-ND	6.64	5.90	4.87	4.43
	.236 (6.00)	.75 (19.05)	226-□019-ND	7.20	6.40	5.28	4.80
	.236 (6.00)	.925 (23.50)	226-□032-ND	8.10	7.20	5.94	5.40
	.250 (6.35)	.50 (12.70)	226-□029-ND	5.96	5.30	4.38	3.98
	.250 (6.35)	.625 (15.875)	226-□067-ND	6.64	5.90	4.87	4.43
	.250 (6.35)	.75 (19.05)	226-□016-ND	7.20	6.40	5.28	4.80
	.250 (6.35)	.925 (23.50)	226-□017-ND	8.10	7.20	5.94	5.40
5	.125 (3.18)	.50 (12.70)	226-□020-ND	5.76	5.12	4.23	3.84
	.125 (3.18)	.625 (15.875)	226-□063-ND	6.41	5.70	4.71	4.28
	.125 (3.18)	.75 (19.05)	226-□038-ND	6.89	6.12	5.05	4.59
	.125 (3.18)	.925 (23.50)	226-□039-ND	7.45	6.62	5.47	4.97
	.236 (6.00)	.50 (12.70)	226-□023-ND	5.76	5.12	4.23	3.84
	.236 (6.00)	.625 (15.875)	226-□065-ND	6.41	5.70	4.71	4.28
	.236 (6.00)	.75 (19.05)	226-□024-ND	6.89	6.12	5.05	4.59
	.236 (6.00)	.925 (23.50)	226-□040-ND	7.45	6.62	5.47	4.97
	.250 (6.35)	.50 (12.70)	226-□037-ND	5.76	5.12	4.23	3.84
	.250 (6.35)	.625 (15.875)	226-□064-ND	6.41	5.70	4.71	4.28
	.250 (6.35)	.75 (19.05)	226-□021-ND	6.89	6.12	5.05	4.59
	.250 (6.35)	.925 (23.50)	226-□022-ND	7.45	6.62	5.47	4.97
6	.125 (3.18)	.50 (12.70)	226-□072-ND	5.76	5.12	4.23	3.84
	.125 (3.18)	.625 (15.875)	226-□073-ND	6.41	5.70	4.71	4.28
	.125 (3.18)	.75 (19.05)	226-□074-ND	6.89	6.12	5.05	4.59
	.125 (3.18)	.925 (23.50)	226-□075-ND	7.45	6.62	5.47	4.97
	.236 (6.00)	.50 (12.70)	226-□080-ND	5.76	5.12	4.23	3.84
	.236 (6.00)	.625 (15.875)	226-□081-ND	6.41	5.70	4.71	4.28
	.236 (6.00)	.75 (19.05)	226-□082-ND	6.89	6.12	5.05	4.59
	.236 (6.00)	.925 (23.50)	226-□083-ND	7.45	6.62	5.47	4.97
	.250 (6.35)	.50 (12.70)	226-□076-ND	5.76	5.12	4.23	3.84
	.250 (6.35)	.625 (15.875)	226-□077-ND	6.41	5.70	4.71	4.28
	.250 (6.35)	.75 (19.05)	226-□078-ND	6.89	6.12	5.05	4.59
	.250 (6.35)	.925 (23.50)	226-□079-ND	7.45	6.62	5.47	4.97
7	.125 (3.18)	.50 (12.70)	226-□084-ND	3.20	2.84	2.35	2.13
	.125 (3.18)	.625 (15.875)	226-□085-ND	3.31	2.94	2.43	2.21
	.125 (3.18)	.75 (19.05)	226-□086-ND	3.42	3.04	2.51	2.28
	.125 (3.18)	.925 (23.50)	226-□087-ND	3.53	3.14	2.60	2.36
	.236 (6.00)	.50 (12.70)	226-□092-ND	3.20	2.84	2.35	2.13
	.236 (6.00)	.625 (15.875)	226-□093-ND	3.31	2.94	2.43	2.21
	.236 (6.00)	.75 (19.05)	226-□094-ND	3.42	3.04	2.51	2.28
	.236 (6.00)	.925 (23.50)	226-□095-ND	3.53	3.14	2.60	2.36
	.250 (6.35)	.50 (12.70)	226-□088-ND	3.20	2.84	2.35	2.13
	.250 (6.35)	.625 (15.875)	226-□089-ND	3.31	2.94	2.43	2.21
	.250 (6.35)	.75 (19.05)	226-□090-ND	3.42	3.04	2.51	2.28
	.250 (6.35)	.925 (23.50)	226-□091-ND	3.53	3.14	2.60	2.36
8	.125 (3.18)	.50 (12.70)	226-□120-ND	3.20	2.84	2.35	2.13
	.125 (3.18)	.625 (15.875)	226-□121-ND	3.31	2.94	2.43	2.21
	.125 (3.18)	.75 (19.05)	226-□122-ND	3.42	3.04	2.51	2.28
	.125 (3.18)	.925 (23.50)	226-□123-ND	3.53	3.14	2.60	2.36
	.236 (6.00)	.50 (12.70)	226-□128-ND	3.20	2.84	2.35	2.13
	.236 (6.00)	.625 (15.875)	226-□129-ND	3.31	2.94	2.43	2.21
	.236 (6.00)	.75 (19.05)	226-□130-ND	3.42	3.04	2.51	2.28
	.236 (6.00)	.925 (23.50)	226-□131-ND	3.53	3.14	2.60	2.36

* For complete part number, substitute the corresponding color choice (listed below) for □:
1 = Black Gloss **2** = Aluminum Gloss **3** = Aluminum Matte **4** = Black Matte

(Continued)

Machined Aluminum Instrumentation Knobs *(Cont.)*

Fig.	Shaft Diameter Inch (mm)	Dimension A Inch (mm)	Digi-Key* Part No.	Price Each 1	10	50	100
8	.250 (6.35)	.50 (12.70)	226-□124-ND	3.20	2.84	2.35	2.13
	.250 (6.35)	.625 (15.875)	226-□125-ND	3.31	2.94	2.43	2.21
	.250 (6.35)	.75 (19.05)	226-□126-ND	3.42	3.04	2.51	2.28
	.250 (6.35)	.925 (23.50)	226-□127-ND	3.53	3.14	2.60	2.36
9	.125 (3.18)	.50 (12.70)	226-□096-ND	3.20	2.84	2.35	2.13
	.125 (3.18)	.625 (15.875)	226-□097-ND	3.31	2.94	2.43	2.21
	.125 (3.18)	.75 (19.05)	226-□098-ND	3.42	3.04	2.51	2.28
	.125 (3.18)	.925 (23.50)	226-□099-ND	3.53	3.14	2.60	2.36
	.236 (6.00)	.50 (12.70)	226-□104-ND	3.20	2.84	2.35	2.13
	.236 (6.00)	.625 (15.875)	226-□105-ND	3.31	2.94	2.43	2.21
	.236 (6.00)	.75 (19.05)	226-□106-ND	3.42	3.04	2.51	2.28
	.236 (6.00)	.925 (23.50)	226-□107-ND	3.53	3.14	2.60	2.36
	.250 (6.35)	.50 (12.70)	226-□100-ND	3.20	2.84	2.35	2.13
	.250 (6.35)	.625 (15.875)	226-□101-ND	3.31	2.94	2.43	2.21
	.250 (6.35)	.75 (19.05)	226-□102-ND	3.42	3.04	2.51	2.28
	.250 (6.35)	.925 (23.50)	226-□103-ND	3.53	3.14	2.60	2.36
10	.125 (3.18)	.50 (12.70)	226-□132-ND	3.20	2.84	2.35	2.13
	.125 (3.18)	.625 (15.875)	226-□133-ND	3.31	2.94	2.43	2.21
	.125 (3.18)	.75 (19.05)	226-□134-ND	3.42	3.04	2.51	2.28
	.125 (3.18)	.925 (23.50)	226-□135-ND	3.53	3.14	2.60	2.36
	.236 (6.00)	.50 (12.70)	226-□140-ND	3.20	2.84	2.35	2.13
	.236 (6.00)	.625 (15.875)	226-□141-ND	3.31	2.94	2.43	2.21
	.236 (6.00)	.75 (19.05)	226-□142-ND	3.42	3.04	2.51	2.28
	.236 (6.00)	.925 (23.50)	226-□143-ND	3.53	3.14	2.60	2.36
10	.250 (6.35)	.50 (12.70)	226-□136-ND	3.20	2.84	2.35	2.13
	.250 (6.35)	.625 (15.875)	226-□137-ND	3.31	2.94	2.43	2.21
	.250 (6.35)	.75 (19.05)	226-□138-ND	3.42	3.04	2.51	2.28
	.250 (6.35)	.925 (23.50)	226-□139-ND	3.53	3.14	2.60	2.36
11	.125 (3.18)	.50 (12.70)	226-□108-ND	3.80	3.38	2.79	2.54
	.125 (3.18)	.625 (15.875)	226-□109-ND	3.94	3.50	2.89	2.63
	.125 (3.18)	.75 (19.05)	226-□110-ND	4.07	3.62	2.99	2.72
	.125 (3.18)	.925 (23.50)	226-□111-ND	4.28	3.80	3.14	2.85
	.236 (6.00)	.50 (12.70)	226-□116-ND	3.80	3.38	2.79	2.54
	.236 (6.00)	.625 (15.875)	226-□117-ND	3.94	3.50	2.89	2.63
	.236 (6.00)	.75 (19.05)	226-□118-ND	4.07	3.62	2.99	2.72
	.236 (6.00)	.925 (23.50)	226-□119-ND	4.28	3.80	3.14	2.85
	.250 (6.35)	.50 (12.70)	226-□112-ND	3.80	3.38	2.79	2.54
	.250 (6.35)	.625 (15.875)	226-□113-ND	3.94	3.50	2.89	2.63
	.250 (6.35)	.75 (19.05)	226-□114-ND	4.07	3.62	2.99	2.72
	.250 (6.35)	.925 (23.50)	226-□115-ND	4.28	3.80	3.14	2.85
12	.125 (3.18)	.50 (12.70)	226-□144-ND	3.80	3.38	2.79	2.54
	.125 (3.18)	.625 (15.875)	226-□145-ND	3.94	3.50	2.89	2.63
	.125 (3.18)	.75 (19.05)	226-□146-ND	4.07	3.62	2.99	2.72
	.125 (3.18)	.925 (23.50)	226-□147-ND	4.28	3.80	3.14	2.85
	.236 (6.00)	.50 (12.70)	226-□152-ND	3.80	3.38	2.79	2.54
	.236 (6.00)	.625 (15.875)	226-□153-ND	3.94	3.50	2.89	2.63
	.236 (6.00)	.75 (19.05)	226-□154-ND	4.07	3.62	2.99	2.72
	.236 (6.00)	.925 (23.50)	226-□155-ND	4.28	3.80	3.14	2.85
	.250 (6.35)	.50 (12.70)	226-□148-ND	3.80	3.38	2.79	2.54
	.250 (6.35)	.625 (15.875)	226-□149-ND	3.94	3.50	2.89	2.63
	.250 (6.35)	.75 (19.05)	226-□150-ND	4.07	3.62	2.99	2.72
	.250 (6.35)	.925 (23.50)	226-□151-ND	4.28	3.80	3.14	2.85

* For complete part number, substitute the corresponding color choice (listed below) for □:
1 = Black Gloss 2 = Aluminum Gloss 3 = Aluminum Matte 4 = Black Matte

Push-to-Turn Aluminum Knobs

DDSPT Model

Made in the USA

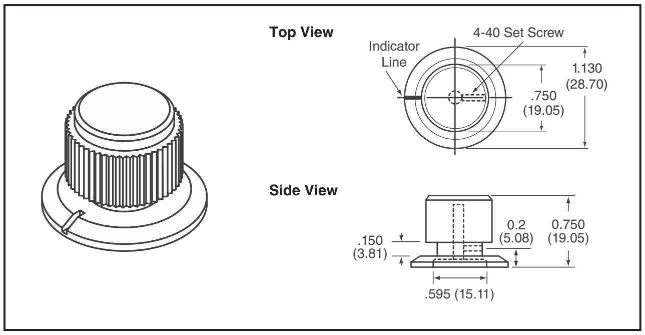

Features:
- Precision aluminum machined surfaces from bar stock
- Anodized finish gloss or matte
- Colors are clear or black
- DDSPT knobs have a single 4-40 set screw

Shaft Dia. Inch (mm)	Color/ Finish	Digi-Key Part No.	Price Each 1	10	50	100
.125 (3.18)	Clear/Gloss	226-1046-ND	16.85	14.98	12.36	11.24
.236 (6.00)	Clear/Gloss	226-1047-ND	16.85	14.98	12.36	11.24
.250 (6.35)	Clear/Gloss	226-1045-ND	16.85	14.98	12.36	11.24
.125 (3.18)	Black/Gloss	226-1049-ND	16.85	14.98	12.36	11.24
.236 (6.00)	Black/Gloss	226-1050-ND	16.85	14.98	12.36	11.24
.250 (6.35)	Black/Gloss	226-1048-ND	16.85	14.98	12.36	11.24
.125 (3.18)	Clear/Matte	226-1052-ND	16.85	14.98	12.36	11.24
.236 (6.00)	Clear/Matte	226-1053-ND	16.85	14.98	12.36	11.24
.250 (6.35)	Clear/Matte	226-1051-ND	16.85	14.98	12.36	11.24
.125 (3.18)	Black/Matte	226-1055-ND	16.85	14.98	12.36	11.24
.236 (6.00)	Black/Matte	226-1056-ND	16.85	14.98	12.36	11.24
.250 (6.35)	Black/Matte	226-1054-ND	16.85	14.98	12.36	11.24

Concentric Scale Dials

SERIES: 400, 500, 600, 3400

Made in the USA

Fig. 1

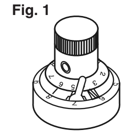

Fig. 2

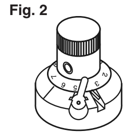

Fig. 3

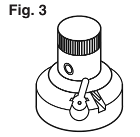

Fig. 4

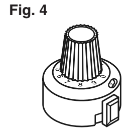

Features: Anodized precision machined aluminum exterior. Accommodates potentiometer shaft - 1/4" (6.35mm) with 3/8" x 32-NEF-2A bushing. Requires only one square inch of panel space.

400 Series: 1" (25.40mm) **10 Turn Calibration.** This world class turns-counting dial is designed for multi-turn potentiometers up to ten turns or other rotary devices. The knob/scale attaches directly to the shaft, and the body of the dial is mounted rigidly to the panel, therefore, accurate readings with a ratio of 1000 to 1 for ten turns are provided with no backlash or reading error. Available with or without locking mechanism.

500 Series: 1" (25.40mm) **1 Turn Calibrated scale.**

600 Series: 1" (25.40mm) **1 Turn Uncalibrated dial.**

3400 Series: 7/8" (22.23mm) **20 Turn Calibration.** Calibrated dial designed for multi-turn potentiometers up to twenty turns or other rotary devices. The turns counting digit appears in the window as the dial is rotated. Mounting bracket plate is installed between panel and panel nut, with the dial mounting directly to the potentiometer shaft.

Fig.	Description	Digi-Key Part No.	Price Each 1	5	10	Kilo Part No.
	Commercial 10 Turn (Calibrated)					
1	Black Anodize, No Lock	411KL-ND	19.72	18.31	16.91	411
	Black Anodize, with Lock	412KL-ND	20.77	19.29	17.81	412
	Clear Anodize, No Lock	461KL-ND	19.72	18.31	16.91	461
	Clear Anodize, with Lock	462KL-ND	19.72	18.31	16.91	462
	Commercial Single Turn (Calibrated)					
2	Black Anodize, with Lock	512KL-ND	19.13	17.85	17.00	512
	Clear Anodize, No Lock	561KL-ND	14.74	13.76	13.10	561
	Clear Anodize, with Lock	562KL-ND	19.13	17.85	17.00	562
	Commercial Single Turn (Uncalibrated)					
3	Black Anodize, with Lock	612KL-ND	18.52	17.29	16.46	612
	Clear Anodize, with Lock	662KL-ND	18.52	17.29	16.46	662
	Commercial 20 Turn (Calibrated)					
4	Black Anodize, with Lock	3412KL-ND	18.52	17.20	15.88	3412
	Clear Anodize, with Lock	3462KL-ND	18.52	17.20	15.88	3462

Instrumentation Knobs

Fig. 1

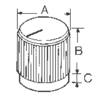

Skirted Round

Fig. 2

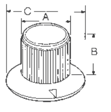

Round with Dial

Fig. 3

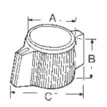

Double Bar

Fig. 4

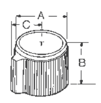

Single Bar

Fig.	Shaft Dia. – mm	Dimensions – mm A	B	C	Digi-Key Part No.	Price Each 1	10	100
1	3.18	12.70	12.95	3.81	8554K-ND	5.82	5.44	3.50
	6.35	17.78	15.49	4.32	8555K-ND	6.03	5.63	3.67
	6.35	22.86	20.07	5.59	8556K-ND	6.21	5.80	3.79
2	3.18	12.70	13.97	22.86	8558K-ND	7.29	6.81	4.40
	6.35	17.78	18.03	29.21	8559K-ND	8.70	8.12	5.26
	6.35	22.86	22.10	38.74	8560K-ND	9.93	9.27	6.03
3	6.35	17.78	15.49	29.21	8565K-ND	7.38	6.89	4.49
	6.35	22.86	16.26	38.74	8566K-ND	7.95	7.42	4.76
4	3.18	12.70	12.95	8.89	8567K-ND	8.76	8.18	5.34
	6.35	17.78	15.49	11.68	8568K-ND	10.05	9.38	6.11
	6.35	22.86	20.07	14.99	8569K-ND	10.89	10.17	6.61

Knobs have a spun aluminum inlay with a clear coat finish.

Panasonic® Audio Potentiometers

9mm Potentiometers

Specifications: Resistance Range: 5KΩ through 50KΩ • Tolerance: ±20% • Power Rating: .05w @ 50°C • Voltage Rating: $E = \sqrt{PR}$ but $E \leq$ 50VAC/20VDC • Rotation Angle: 300° ±5° • Life: 10000 turns minimum • Application: Audio mixer

Fig. 1

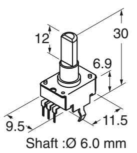

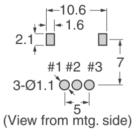

Footprint Applies to Figures 1, 2 & 3

Fig. 2

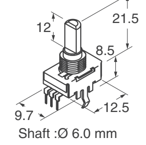

*** Hardware Included**

Fig. 3

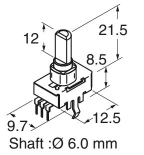

Fig. 4

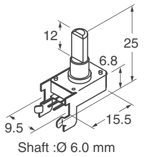

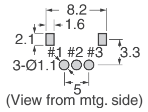

Footprint Applies to Figures 4, 5, & 6

Fig. 5

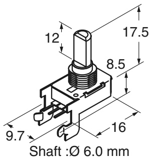

*** Hardware Included**

Fig. 6

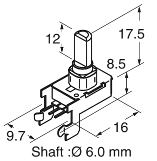

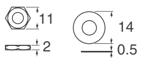

*** Hardware for Fig. 2 and Fig. 5**

12mm Potentiometers

Specifications: Resistance Range: 5KΩ through 50KΩ • Tolerance: ±20% • Power Rating: .05w @ 50°C • Voltage Rating: $E = \sqrt{PR}$ but $E \leq$ 50VAC/20VDC (Do not use DC Voltage) • Rotation Angle: 300° ±5° • Life: 15000 turns minimum • Application: Audio mixer

Fig. 7

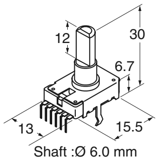

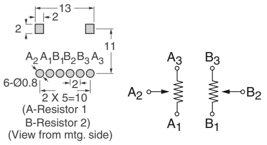

Footprint Applies to Figures 7, 8, & 9

Fig. 8

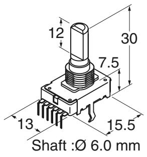

*** Hardware Included**

Fig. 9

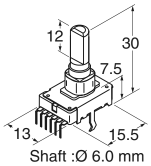

Fig. 10

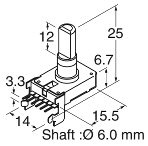

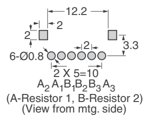

Footprint Applies to Figures 10, 11, & 12

Fig. 11

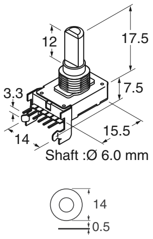

*** Hardware Included**

Fig. 12

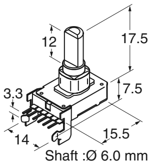

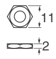

*** Hardware for Fig. 8 and Fig. 11**

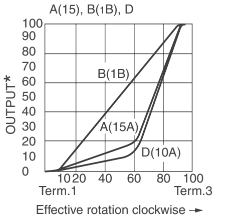

$$* \frac{\text{Output V. between term. 1 \& 2}}{\text{Operating V. between term.1 \& 3}} \times 100\%$$

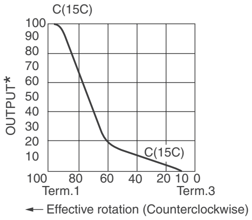

$$* \frac{\text{Output V. between term. 2 \& 3}}{\text{Operating V. between term.1 \& 3}} \times 100\%$$

Resistance Code Chart
Code (Resistance Value)

Code (Value)	Code (Value)
502 (5K)	103 (10K)
203 (20K)	503 (50K)

Fig.	Taper	Center Detent	Bushing	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic* Part No.
9mm Audio Potentiometers									
1	B	Y	None	P3A1□□□-ND	1.05	8.73	65.48	483.06	EVU-F3AF30B□□
	D	Y	None	P3B2□□□-ND	1.05	8.73	65.48	483.06	EVU-F3AF30D□□
	B	N	None	P3C3□□□-ND	1.12	9.33	69.98	516.26	EVU-F2AF30B□□
	D	N	None	P3D4□□□-ND	.99	8.22	61.65	454.84	EVU-F2AF30D□□
2	B	Y	Metal	P3E5□□□-ND◆	1.90	15.84	118.80	876.48	EVU-F3MFL3B□□
	D	Y	Metal	P3F6□□□-ND	1.90	15.84	118.80	876.48	EVU-F3MFL3D□□
	B	N	Metal	P3G7□□□-ND◆	1.84	15.33	114.98	848.26	EVU-F2MFL3B□□
	D	N	Metal	P3H8□□□-ND◆	1.84	15.33	114.98	848.26	EVU-F2MFL3D□□
3	B	Y	Plastic	P3I9□□□-ND	1.25	10.44	78.30	577.68	EVU-F3LFL3B□□
	D	Y	Plastic	P3J0□□□-ND	1.25	10.44	78.30	577.68	EVU-F3LFL3D□□
	B	N	Plastic	P3K1□□□-ND	1.19	9.90	74.25	547.80	EVU-F2LFL3B□□
	D	N	Plastic	P3L2□□□-ND	1.19	9.90	74.25	547.80	EVU-F2LFL3D□□
4	B	Y	None	P3M3□□□-ND	1.08	9.03	67.73	499.66	EVU-E3AF25B□□
	D	Y	None	P3N4□□□-ND	1.08	9.03	67.73	499.66	EVU-E3AF25D□□
	B	N	None	P3P5□□□-ND	1.02	8.49	63.68	469.78	EVU-E2AF25B□□
	D	N	None	P3Q6□□□-ND	1.02	8.49	63.68	469.78	EVU-E2AF25D□□
5	B	Y	Metal	P3R7□□□-ND	1.94	16.17	121.28	894.74	EVU-E3JFK4B□□
	D	Y	Metal	P3S8□□□-ND	1.94	16.17	121.28	894.74	EVU-E3JFK4D□□
	B	N	Metal	P3T9□□□-ND	1.87	15.60	117.00	863.20	EVU-E2JFK4B□□
	D	N	Metal	P3U0□□□-ND	1.87	15.60	117.00	863.20	EVU-E2JFK4D□□
6	B	Y	Plastic	P3W1□□□-ND	1.29	10.77	80.78	595.94	EVU-E3KFK4B□□
	D	Y	Plastic	P3X2□□□-ND	1.29	10.77	80.78	595.94	EVU-E3KFK4D□□
	B	N	Plastic	P3Y3□□□-ND	1.22	10.20	76.50	564.40	EVU-E2KFK4B□□
	D	N	Plastic	P3Z4□□□-ND	1.22	10.20	76.50	564.40	EVU-E2KFK4D□□
12mm Audio Potentiometers									
7	B	Y	None	P2A5□□□-ND	2.36	19.68	147.60	1088.96	EVJ-Y81F30B□□
	AC	Y	None	P2B6□□□-ND	2.36	19.68	147.60	1088.96	EVJ-YE1F30□□□
	A	N	None	P2C7□□□-ND	2.29	19.11	143.33	1057.42	EVJ-Y00F30A□□
	D	N	None	P2D8□□□-ND	2.29	19.11	143.33	1057.42	EVJ-Y00F30D□□
8	B	Y	Metal	P2E9□□□-ND	2.69	22.41	168.08	1240.02	EVJ-Y91F03B□□
	AC	Y	Metal	P2F0□□□-ND	2.38	19.83	148.73	1097.26	EVJ-YK1F03□□□
	A	N	Metal	P2G1□□□-ND	2.62	21.87	164.03	1210.14	EVJ-Y10F03A□□
	D	N	Metal	P2H2□□□-ND	2.62	21.87	164.03	1210.14	EVJ-Y10F03D□□
9	B	Y	Plastic	P2I3□□□-ND	2.57	21.39	160.43	1183.58	EVJ-Y96F03B□□
	AC	Y	Plastic	P2J4□□□-ND	2.57	21.39	160.43	1183.58	EVJ-YK6F03□□□
	A	N	Plastic	P2K5□□□-ND	2.51	20.88	156.60	1155.36	EVJ-Y15F03A□□
	D	N	Plastic	P2L6□□□-ND	2.51	20.89	156.67	1155.86	EVJ-Y15F03D□□
10	B	Y	None	P2M7□□□-ND	2.39	19.95	149.63	1103.90	EVJ-C31F25B□□
	AC	Y	None	P2N8□□□-ND	2.39	19.95	149.63	1103.90	EVJ-CV1F25□□□
	A	N	None	P2P9□□□-ND	2.33	19.38	145.35	1072.36	EVJ-C00F25A□□
	D	N	None	P2Q0□□□-ND	2.33	19.38	145.35	1072.36	EVJ-C00F25D□□
11	B	Y	Metal	P2R1□□□-ND	2.73	22.71	170.33	1256.62	EVJ-C51F02B□□
	AC	Y	Metal	P2S2□□□-ND	2.73	22.71	170.33	1256.62	EVJ-CC1F02□□□
	A	N	Metal	P2T3□□□-ND	2.35	19.57	146.79	1082.98	EVJ-C20F02A□□
	D	N	Metal	P2U4□□□-ND	2.35	19.57	146.79	1082.98	EVJ-C20F02D□□
12	B	Y	Plastic	P2W5□□□-ND	2.60	21.66	162.45	1198.52	EVJ-C56F02B□□
	AC	Y	Plastic	P2X6□□□-ND	2.60	21.66	162.45	1198.52	EVJ-CC6F02□□□
	A	N	Plastic	P2Y7□□□-ND	2.53	21.12	158.40	1168.64	EVJ-C25F02A□□
	D	N	Plastic	P2Z8□□□-ND	2.53	21.12	158.40	1168.64	EVJ-C25F02D□□

For complete number, substitute corresponding code (from above chart) for □□□.

* Call *Digi-Key* for help in assembling manufacturer part number. ◆ ***RoHS Compliant***

Panasonic® Thumbwheel Potentiometers

Resistance Code Chart
Code (Resistance Value)

Code (Value)	Code (Value)
502 (5K)	203 (20K)
103 (10K)	503 (50K)

Specifications: • Resistance Range: 5KΩ through 50KΩ • Tolerance: ±20% • Power Rating: B taper - .03W, All others .01W • Voltage Rating: 50VAC/20VDC • Rotation Angle: 260° ±10° • Life: 10,000 turns minimum

Fig.	Taper	Center Detent	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic* Part No.
1	A	N	P4A9□□□-ND	2.07	17.25	129.38	954.50	EVL-HFAA01A□□
	B	N	P4B0□□□-ND	2.07	17.25	129.38	954.50	EVL-HFAA01B□□
2	A	N	P4C1□□□-ND	2.07	17.26	129.42	954.83	EVL-HFAA06A□□
	B	N	P4D2□□□-ND◆	2.07	17.26	129.42	954.83	EVL-HFAA06B□□
1	A	Y	P4E3□□□-ND	2.32	19.32	144.90	1069.04	EVL-HFKA01A□□
	B	Y	P4F4□□□-ND	2.32	19.32	144.90	1069.04	EVL-HFKA01B□□
3	A	N	P4K9□□□-ND◆	2.07	17.25	129.38	954.50	EVL-HFAA05A□□
	B	N	P4L0□□□-ND◆	2.07	17.25	129.38	954.50	EVL-HFAA05B□□
3	A	Y	P4M1□□□-ND◆	2.32	19.32	144.90	1069.04	EVL-HFKA05A□□
	B	Y	P4N2□□□-ND◆	2.32	19.32	144.90	1069.04	EVL-HFKA05B□□

For complete number, substitute corresponding code (from chart above) for □□□.
* Call Digi-Key for help in assembling manufacturer part number. ◆ ***RoHS Compliant***

Specifications: • Tolerance: ±30% • Power Rating: .01W • Rotation Angle: 270°±5° • Life: P4G5102-ND 5,000 turns minimum, All others 10,000 turns minimum • No center detent

Fig.	Dual Taper	Rated Voltage	Resistance (Ω)	Digi-Key Part No.	Pricing 1	10	100	Tape & Reel † Qty.	Tape & Reel † Pricing	Panasonic Part No.
4	B/B	20VAC	50K	P4J8503CT-ND◆	1.37	11.40	104.83	800	547.20	EVU-TUAB16B54
5	C/C	22VAC	50K	P4I7503CT-ND	.98	8.15	74.96	1,200	489.00/M	EVU-TUHB07C54
6	A/A	0.5VAC	1K	P4G5102-ND	.96	8.00	60.01	—	—	EVU-TW1B24A13
7	C/C	10VAC	10K	P4H6103-ND◆	.96	8.00	60.01	—	—	EVU-TW7B45C14

† For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Fig. 1

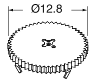

Fig. 2

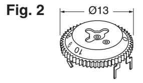

Footprint Applies to both Fig. 1 and 2

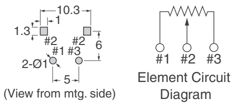

Fig. 3

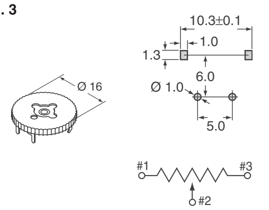

Fig. 4

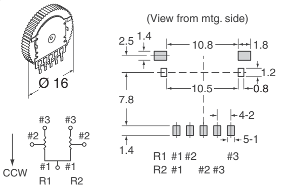

Fig. 5

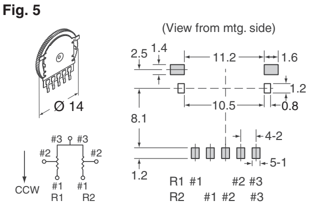

Fig. 6

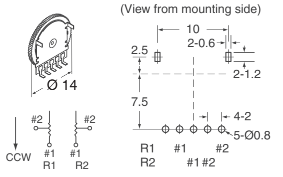

Fig. 7

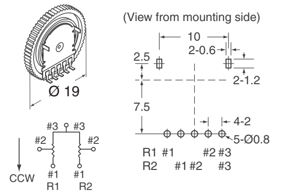

16mm Square Rotary Potentiometers with Detents

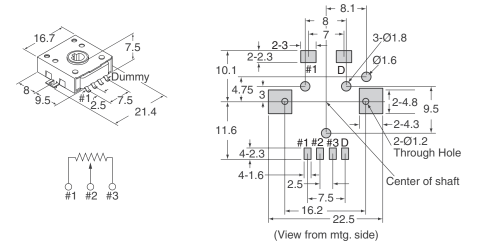

Recommended Applications: • Function switching and adjusting for control panels of car air conditioners
Features: • Small size • High click torque • External Dimensions: 16.7mm x 16.3mm x 6.0mm • Through hole for a shaft • Suitable for reflow soldering
Mechanical Specifications: • Rotation Torque: 40 mN·m ± 15 mN·m • Detent Pitch: (12, 7 active) 30° ± 3° • Rotation Angle: 360° Endless
Electrical Specifications: • Power Rating: 0.05W • Nominal Total Resistance: 10kΩ ±30% • Taper: B • Rotation Life: 30,000 nominal
Operating Temperature: -40°C ~ 85°C

Detent Number	1	2	3	4	5	6	7
Angle	90°	120°	150°	180°	210°	240°	270°
Output/Initial	5% max.	16.7% ± 5%	33.3% ± 5%	50% ± 5%	66.7% ± 5%	83.3% ± 5%	95% min.

Description	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T & R Pricing 350	Panasonic Part No.
10KΩ,12 Detents, SMD	P12427CT-ND	5.83	48.60	447.16	P12427TR-ND	1020.60	EWV-YC8B14

EVWAE 10mm GS Sensors

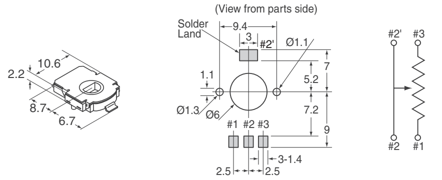

Low profile, long life sensor, which is suitable for detecting the angles of rotating axes, such as air conditioner dampers.

Recommended Applications: • Detection of air conditioner damper angles • Detection of various control unit angles

Features: • Low profile (H=2.2mm) • Long operation life: 1 million operation cycles assured, a wide electrical output angle of a maximum 347°

Specifications: • Rating: 0.05W, 5V • Operating Force: 3 mN.m maximum • Linearity: ±3% maximum • Operation Life: 1,000,000 cycles (operation Angle ±30°) • Total Resistance: 10kΩ ±30%

Operating Temperature: -40°C ~ 85°C

Description	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T & R Pricing 1,500	Panasonic Part No.
10KΩ, 10mm, SMD	P12426CT-ND	1.72	14.31	131.65	P12426TR-ND	859.00/M	EVW-AE4001B14

5mm Square Single-Turn Cermet Potentiometers

MBG Series

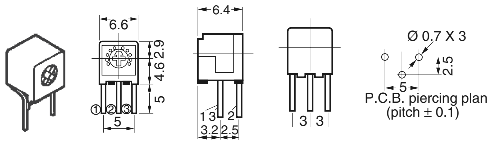

MSG Series

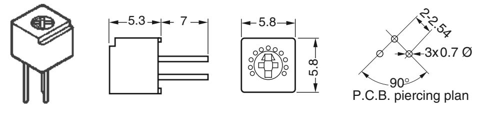

SPECIFICATIONS:

Mechanical Characteristics:
- Total rotation angle: Adjustment angle 200° nominal
- Soldering: Within 5 seconds maximum at 300°C

Electrical Characteristics:
- Resistance Range: 500Ω to 2 MΩ
- Tolerance: ±20%
- Power Rating: 0.5W at 70°C
- Maximum Voltage: 200V
- Dielectric Withstanding Voltage: 600VAC for one minute
- Temperature Coefficient: ±100ppm/°C
- Insulation Resistance: 100MΩ

Environmental Characteristics:
- Operating Temperature Range: -55°C ~ 125°C
- Vibration: 20G
- Shock: 180G
- Seal: MIL-R-22097 Immersion

Res. (Ω)	Digi-Key Part No. Side Adjust	Digi-Key Part No. Top Adjust	Pricing 1	10	100	1,000	5,000	Panasonic Part No. Side Adjust	Panasonic Part No. Top Adjust
500K	MBG52-ND	—	1.59	13.23	121.67	814.00	756.00/M	EVM-MBGA01B52	—
1K	—	MSG13-ND	1.59	13.23	121.67	814.00	756.00/M	—	EVM-MSGA01B13
500K	—	MSG55-ND	1.59	13.23	121.67	814.00	756.00/M	—	EVM-MSGA01B55
1M	MBG16-ND	—	1.59	13.23	121.67	814.00	756.00/M	EVM-MBGA01B16	—
2M	—	MSG26-ND	1.59	13.23	121.67	814.00	756.00/M	—	EVM-MSGA01B26

Slide Potentiometers for Audio Mixer Applications

Fig. 1 – Thin Type

Features: • Thin and compact design with 8mm body height and 15mm width • Light sliding force and excellent operation • Highly accurate attenuation characteristics, maximum attenuation of more than 100dB, and low noise **Recommended Applications:** • Fade control for common type audio mixers

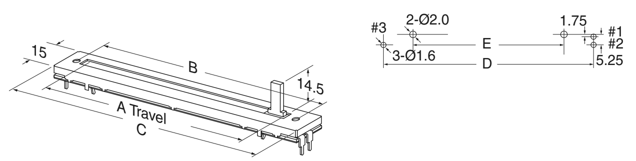

Travel = A	B	C	D	E
100 60	120 80	128 88	127.5 87.5	96 56

Fig. 2 – Mono Type

Features: • Slim type fader, 9mm width, 8mm height • Excellent cost performance applicable to audio mixers for amateur use **Recommended Applications:** • Fade control for audio mixers • Multi-Track Recorders • Paper position sensors for copiers

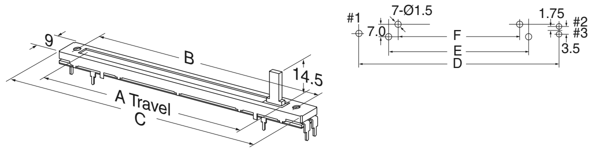

Travel = A	B	C	D	E	F
100 60	120 80	128 88	127.5 87.5	92.5 52.5	87.5 47.5

Fig. 3 – Standard Type

Features: • Excellent operational feeling • Low noise, long operational life, highly accurate attenuation **Recommended Applications:** • Fade control for audio mixers and musical key boards • Heat control or mode switching for car air conditioners • Measurement instruments

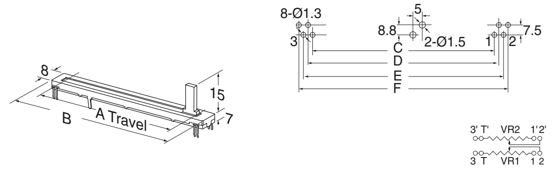

CIRCUIT DIAGRAM
(Note for Single: Do not connect dummy terminal 1' and others 3 and T- short terminals 1', 2', 3' and T'- dummy terminals Note for Dual: 3 and T- short terminals 3' and T'- short terminals)

Travel = A	B	C	D	E	F
60 45	75 60	64 49	67 52	70 55	73 58

Fig. 4 – Motor Type

Features: • Excellent operation feeling, high speed driving and power saving design • Dust-proof mounting possible by 90° off set lever design **Recommended Application:** • Automated Audio Mixers (Common/Amateur Type)

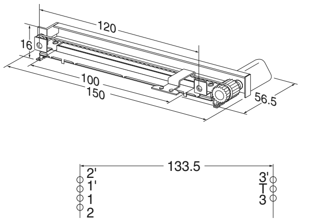

Taper

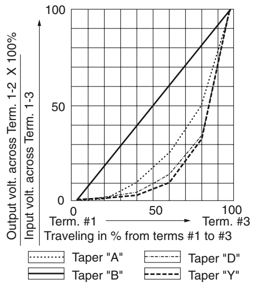

Fig.	Resist. (Ω)	Style	Travel (mm)	Single/ Dual	Taper	Digi-Key Part No.	Price Each 1	10	50	100	Panasonic Part No.
1	10K	Thin	100	S	Y	PJQ100SY-ND	8.51	6.81	5.65	5.11	EVA-JQKR15Y14
	10K	Thin	100	S	A	PJQ100SA-ND◆	8.51	6.81	5.65	5.11	EVA-JQKR15A14
	10K	Thin	100	S	D	PJQ100SD-ND	8.51	6.81	5.65	5.11	EVA-JQKR15D14
	10K	Thin	100	S	B	PJQ100SB-ND◆	8.51	6.81	5.65	5.11	EVA-JQLR15B14
	10K	Thin	100	D	Y	PJQ100DY-ND◆	10.88	8.70	7.23	6.53	EVB-JQKR15Y14
	10K	Thin	100	D	A	PJQ100DA-ND	10.88	8.70	7.23	6.53	EVB-JQKR15A14
	10K	Thin	100	D	D	PJQ100DD-ND	10.88	8.70	7.23	6.53	EVB-JQKR15D14
	10K	Thin	60	S	Y	PNA060SY-ND	8.04	6.43	5.34	4.83	EVA-NADR15Y14
	10K	Thin	60	S	A	PNA060SA-ND	8.04	6.43	5.34	4.83	EVA-NADR15A14
	10K	Thin	60	S	D	PNA060SD-ND	8.04	6.43	5.34	4.83	EVA-NADR15D14
	10K	Thin	60	S	B	PNA060SB-ND◆	7.19	5.75	4.78	4.32	EVA-NAHR15B14
	10K	Thin	60	D	Y	PNA060DY-ND	10.40	8.32	6.91	6.24	EVB-NADR15Y14
	10K	Thin	60	D	A	PNA060DA-ND	9.20	7.36	6.11	5.52	EVB-NADR15A14
	10K	Thin	60	D	D	PNA060DD-ND	9.20	7.36	6.11	5.52	EVB-NADR15D14
2	10K	Mono	100	S	Y	PNF100SY-ND◆	7.11	5.69	4.72	4.27	EVA-NF4R15Y14
	10K	Mono	100	S	A	PNF100SA-ND◆	7.11	5.69	4.72	4.27	EVA-NF4R15A14
	10K	Mono	100	S	D	PNF100SD-ND◆	7.11	5.69	4.72	4.27	EVA-NF4R15D14
	10K	Mono	100	S	B	PNF100SB-ND◆	7.09	5.68	4.71	4.26	EVA-NF3R15B14
	10K	Mono	60	S	Y	PNE060SY-ND	7.11	5.69	4.72	4.27	EVA-NE4R15Y14
	10K	Mono	60	S	A	PNE060SA-ND◆	7.11	5.69	4.72	4.27	EVA-NE4R15A14
	10K	Mono	60	S	D	PNE060SD-ND◆	7.11	5.69	4.72	4.27	EVA-NE4R15D14
	10K	Mono	60	S	B	PNE060SB-ND	6.15	4.92	4.09	3.69	EVA-NE3R15B14
3	10K	Standard	60	S	A	PQ1060SA-ND	3.31	2.65	2.20	1.99	EWA-Q10C15A14
	10K	Standard	60	S	D	PQ1060SD-ND	3.31	2.65	2.20	1.99	EWA-Q10C15D14
	10K	Standard	60	S	B	PQ1060SB-ND◆	3.31	2.65	2.20	1.99	EWA-Q12C15B14
	10K	Standard	60	D	A	PQ3060DA-ND◆	4.02	3.22	2.67	2.42	EWA-Q30C15A14
	10K	Standard	60	D	D	PQ3060DD-ND◆	4.02	3.22	2.67	2.42	EWA-Q30C15D14
	10K	Standard	45	S	A	PP1045SA-ND	2.84	2.27	1.89	1.71	EWA-P10C15A14
	10K	Standard	45	S	D	PP1045SD-ND◆	2.84	2.27	1.89	1.71	EWA-P10C15D14
	10K	Standard	45	S	B	PP1045SB-ND◆	2.84	2.27	1.89	1.71	EWA-P12C15B14
	10K	Standard	45	D	A	PP3045DA-ND◆	3.55	2.84	2.36	2.13	EWA-P30C15A14
	10K	Standard	45	D	D	PP3045DD-ND◆	3.55	2.84	2.36	2.13	EWA-P30C15D14
4	10K	Motor	100	S	Y	PNC100SY-ND◆	41.64	37.63	35.13	33.37	EVB-NC2P088BL

◆ *RoHS Compliant*

Linear Position Sensors

Features: • High-performance sensor • Linearity ± 0.5% (EVAJ-Type) ± 0.2% (EVAW-Type) • Long life and high resolution

Specifications: • Voltage Rating: 5VDC maximum • Taper: B (EIAJ 1B) • Operating force 0.25 N for EVA-W, 0.5 N for EVA-J

Recommended Applications: • Detection of camera/camcorder lens positions • Detection of seat positions for automobiles • Detection of positions in tilt and telescopic mechanisms for automobiles • Detection of headlight angle for automobiles

Fig.	Total Resistance	Travel (mm)	Operating Life	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	10KΩ ± 30%	32.0	100K Cycles	P12338-ND	2.03	1.63	1.35	EVA-JGTJ20B14
2	30KΩ ± 30%	9.0	20K Cycles	P13569-ND	1.34	1.08	.89	EVA-W7NR04B34

Fig. 1

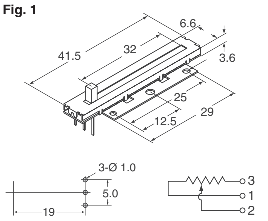

Fig. 2

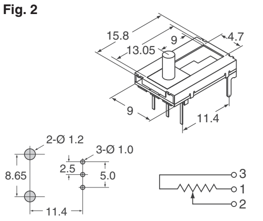

Panasonic®

Surface Mount Trimmer Potentiometers

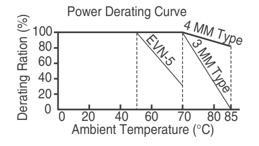

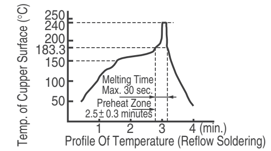

Profile for Reflow Soldering
Pre-Heat: 130°C ~ 160°C
Melting Temp.: TM = 183.3°C
Peak Time: Tp ≤ 240°C
Melting Temp.: TM ≤ 30s
Solder: Eutectic
Flux: Rosin Flux

Series P7J – Panasonic Series #EVM-7JSX30BXX

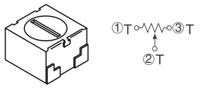

Features: • 3mm sealed type for flow and reflow soldering • Labor cost saving filmless sealed construction; **Resistance Range:** 330-470K; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .05W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 10; **Soldering Heat:** 250°C 10s/260°C 5s

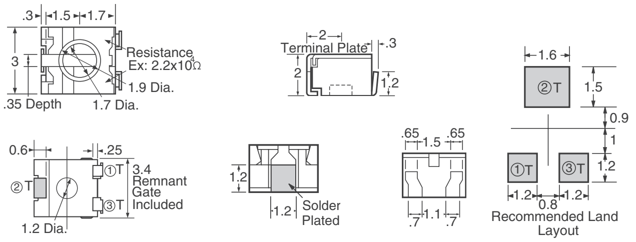

Series P1S – Panasonic Series #EVM-1SSX50BXX

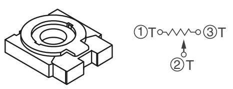

Features: • 3mm open frame type for reflow soldering • Excellent mounting efficiency; **Resistance Range:** 220-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 260°C 10s

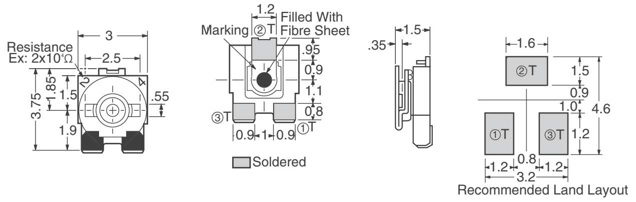

Series P1G – Panasonic Series #EVM-1GSX30BXX

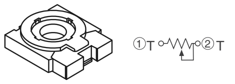

Features: • 4mm open frame type for reflow soldering • Two terminal construction; **Resistance Range:** 220-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 260°C 10s

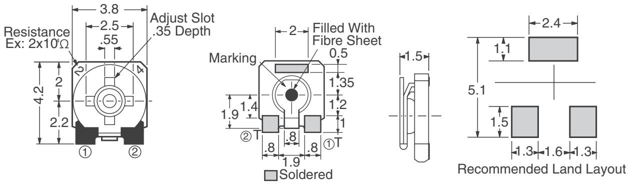

Series P1E – Panasonic Series #EVM-1ESX30BXX

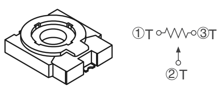

Features: • 4mm open frame type for reflow soldering • Inline terminal construction; **Resistance Range:** 220-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 260°C 10s

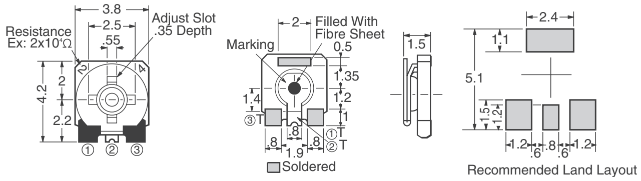

Series P1D – Panasonic Series #EVM-1DSX30BXX

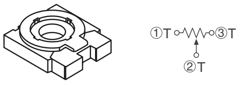

Features: • 4mm open frame type for reflow soldering • Triangle terminal construction; **Resistance Range:** 220-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 260°C 10s

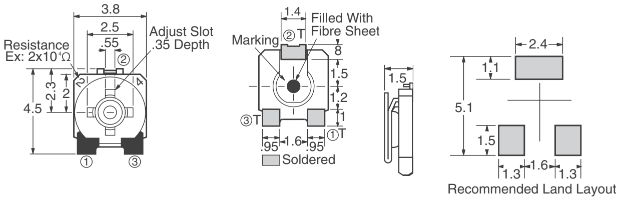

Series P5C – Panasonic Series #EVN-5CSX50BXX*
Series P5E – Panasonic Series #EVN-5ESX50BXX

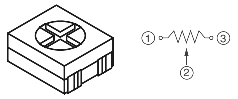

Features: • 3mm carbon dust proof type for reflow soldering • Excellent mounting efficiency for pick and place assembly; • Rotation stopper feature (EVN-5E); **Resistance Range:** 500-1MΩ; **Tolerance:** ±30%; **Taper:** Linear; **Power Rating:** .05W @50C; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -20°C ~ 70°C; **Temperature Coefficient:** ±500 ppm/C(25°C ~ 70°C) / ±750 ppm/C (-20°C ~ 25°C); **Rotation Life:** 20; **Soldering Heat:** 280°C 3s

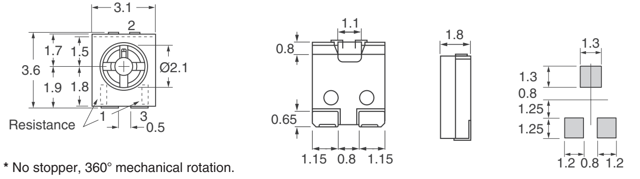

* No stopper, 360° mechanical rotation.

Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	2,000	Panasonic Part No.
P7J□□□CT-ND†	.44	4.11	33.76	P7J□□□TR-ND†	263.75	—	EVM-7JSX30BXX*
P1S□□□CT-ND†	.32	3.00	24.64	P1S□□□TR-ND†	—	192.50/M	EVM-1SSX50BXX*
P1G□□□CT-ND†	.31	2.85	23.36	P1G□□□TR-ND†	182.50	—	EVM-1GSX30BXX*
P1E□□□CT-ND†	.54	4.50	41.40	P1E□□□TR-ND†	277.00	—	EVM-1ESX30BXX*
P1D□□□CT-ND†	.50	4.13	37.95	P1D□□□TR-ND†	254.00	—	EVM-1DSX30BXX*
P5C□□□CT-ND†◆	.31	2.55	23.46	P5C□□□TR-ND†◆	—	157.00/M	EVN-5CSX50BXX*
P5E□□□CT-ND†◆	.28	2.35	21.62	P5E□□□TR-ND†◆	—	145.00/M	EVN-5ESX50BXX*

◆ ***RoHS Compliant*** * For assistance with Panasonic Part Number please call Digi-Key.
† For complete number, substitute corresponding code (from chart) for □□□.

Digi-Key® **SMT Trimmer Potentiometers Kits**
P1E-KIT-ND 10 each of Series P1E, values 100 - 1.0M (130 pieces) **$43.95**
P1D-KIT-ND 10 each of Series P1D, values 100 - 1.0M (130 pieces) **$43.95**

Code Resistance Value For P7J Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
331 (330)	332 (3.3K)	333 (33K)	224 (220K)	334 (330K)	474 (470K)

Code Resistance Value For P1 / P5C Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
201 (200)	501 (500)	102 (1.0K)	202 (2.0K)	502 (5.0K)	103 (10K)	203 (20K)
503 (50K)	104 (100K)	204 (200K)	504 (500K)	105 (1.0M)		

Code Resistance Value For P5E Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
501 (500)	102 (1K)	202 (2K)	502 (5K)	103 (10K)	203 (20K)	503 (50K)
104 (100K)	204 (200K)	504 (500K)	105 (1M)			

(Continued)

Series P2N – Panasonic Series #EVM-2NSX80BXX

Features: 2mm open frame type for reflow soldering; **Resistance Range:** 200-1.0MΩ; **Tolerance:** ±25%; **Taper:** B; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 0.5-10 mN; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-40°C ~ 100°C); **Rotation Life:** 10; **Soldering Heat:** 240°C 5s

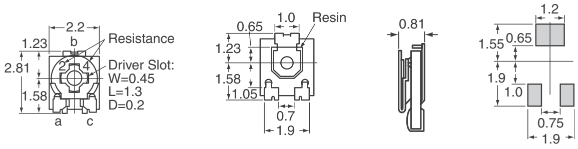

Series P2W – Panasonic Series #EVM-2WSX80BXX

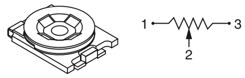

Features: • 2mm open frame type for reflow soldering; **Resistance Range:** 200-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20.; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

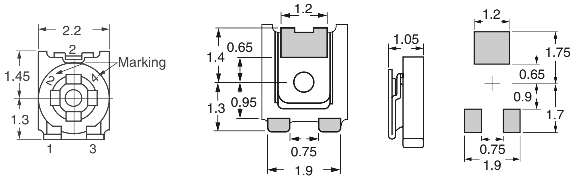

Series P2X – Panasonic Series #EVM-2XSX50BXX

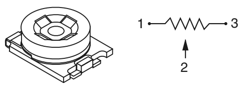

Features: • 2mm open frame type for reflow soldering; **Resistance Range:** 200-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

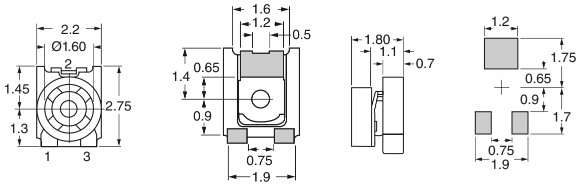

Series P3R – Panasonic Series #EVM-3RSX50BXX

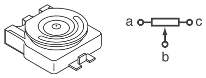

Features: • 3mm open frame type for reflow soldering; **Resistance Range:** 500-1MΩ; **Tolerance:** ±25%; **Taper:** B; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20.; **Rotation Torque:** 1-20 mN; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-40°C ~ 100°C); **Rotation Life:** 10; **Soldering Heat:** 240°C 5s

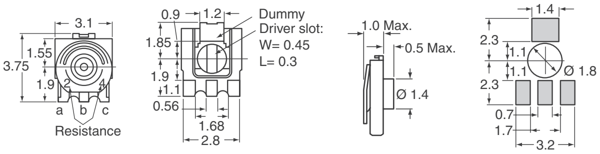

Series P3Y – Panasonic Series #EVM-3YSX50BXX

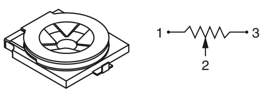

Features: • 3mm open frame type for reflow soldering; **Resistance Range:** 100-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

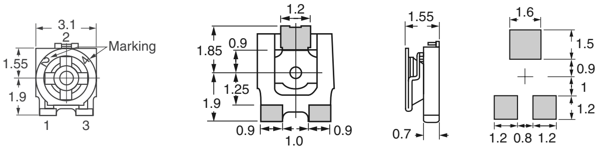

Series P3V – Panasonic Series #EVM-3VSX50BXX

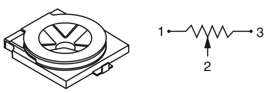

Features: • 3mm open frame type for reflow soldering • Rotation stopper feature; **Resistance Range:** 500-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 240 ±20; **Rotation Torque:** 20-100 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

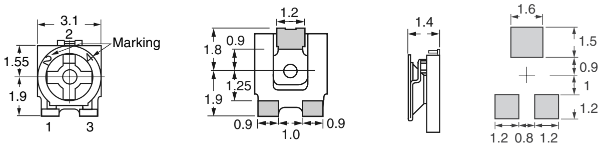

Series P3W – Panasonic Series #EVM-3WSX80BXX

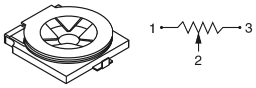

Features: • 3mm open frame type for reflow soldering; **Resistance Range:** 100-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 240 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

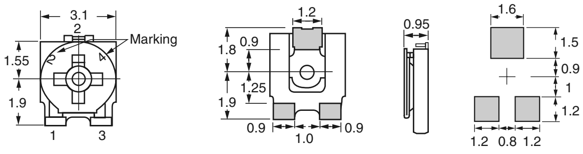

Series P1U – Panasonic Series #EVM-1USX30BXX

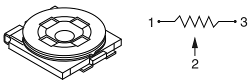

Features: • 4mm open frame type for reflow soldering; **Resistance Range:** 100-1.0MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -20°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (25°C ~ 100°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

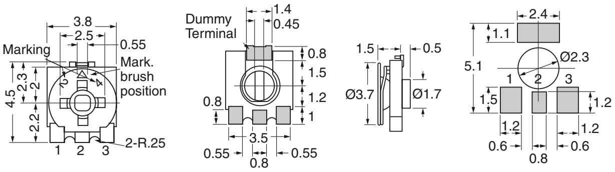

Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	2,000	3,000	Panasonic Part No.
P2N□□□CT-ND†◆	.66	5.48	50.37	P2N□□□TR-ND†◆	—	—	329.00/M	EVM-2NSX80BXX*
P2W□□□CT-ND†	.63	5.25	48.30	P2W□□□TR-ND†	—	—	323.00/M	EVM-2WSX80BXX*
P2X□□□CT-ND†	.61	5.05	46.46	P2X□□□TR-ND†	—	311.00/M	—	EVM-2XSX50BXX*
P3R□□□CT-ND†◆	.81	6.76	62.16	P3R□□□TR-ND†◆	—	405.00/M	—	EVM-3RSX50BXX*
P3Y□□□CT-ND†	.42	3.50	32.20	P3Y□□□TR-ND†	—	215.00/M	—	EVM-3YSX50BXX*
P3V□□□CT-ND†	.52	4.35	40.02	P3V□□□TR-ND†	—	268.00/M	—	EVM-3VSX50BXX*
P3W□□□CT-ND†	.52	4.35	40.02	P3W□□□TR-ND†	—	—	268.00/M	EVM-3WSX80BXX*
P1U□□□CT-ND†	.61	5.05	46.46	P1U□□□TR-ND†	311.00	—	—	EVM-1USX30BXX*

◆ ***RoHS Compliant*** * For assistance with Panasonic Part Number, please call Digi-Key.

† For complete number, substitute corresponding code (from chart) for □□□.

Code Resistance Value For P2N / P2W / P2X Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
201 (200) 203 (20K)	501 (500) 503 (50K)	102 (1.0K) 104 (100K)	202 (2.0K) 204 (200K)	502 (5.0K) 504 (500K)	103 (10K) 105 (1.0M)

Code Resistance Value For P3Y / P3W / P1U Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100) 203 (20K)	201 (200) 503 (50K)	501 (500) 104 (100K)	102 (1.0K) 204 (200K)	202 (2.0K) 504 (500K)	502 (5.0K) 105 (1.0M)	103 (10K)

Code Resistance Value For P3R / P3V Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
501 (500) 104 (100K)	102 (1K) 204 (200K)	202 (2K) 504 (500K)	502 (5K) 105(1M)	103 (10K)	203 (20K)	503 (50K)

Panasonic®

6mm Square Ceramic Trimmer Potentiometers

EVM-EAG / EAS / EGG / EGS Series:

Dustproof Type with Knob Protection: Features: • No readjustment needed through knob protected construction • Excellent mounting efficiency due to cubic shape • Automated adjustment available. Face side: Standard cross slot screwdriver suited to automatic adjustment applicable. Back side: Penetrated slot for easy driving. **Applications:** • Audio visual equipment, home appliances.

Specifications: • Rotation Torque: 20 to 300gf • Stopper Strength: 500gf • Rotation Angle: 210°C ±20°C. • TCR: ±200ppm (-30°C ~ 100°C) • Nominal Total Resistance & Tolerance: ±25% • Power Rating & Maximum Operating Voltage: 0.3W, 100V (70°C) • Residual Resistance: 10Ω maximum for R≤1kΩ, 1% maximum for 1kΩ<R<100kΩ, 5% maximum for R≥100kΩ • Soldering Heat: 5s maximum 240 to 280°C, 3s maxium 280 to 300°C • Rotation Life: 50 turns

EVM-EYG and EVM-EYS Series:

Specifications: • Rotation Torque: 20 to 300gf • Stopper Strength: 500gf • Rotation Angle: 210°C ±20°C • TCR: ±100ppm (-40°C ~ 120°C) • Nominal Total Resistance & Tolerance: ±20% • Power Rating and Maximum Operating Voltage: 0.5W, 200V (70°C) • Residual Resistance: 2% • Soldering Heat: 260°C ±5°C for 5 ±1 Second • Rotation Life: 50 turns

EVM-AAS Series:

Specifications: • Resistance Range: 100Ω – 1mΩ • Tolerance: ±25% • Taper: Linear • Residual Resistance: 2% • Wattage Rating: 0.3W • Volt Rating: 100V • TCR: ±200ppm • Torque: 20 to 300gf • Stopper Strength: 350gf • Rotational Angle: 240°C ±20°C • Operational Temperature: -30°C ~ 100°C

EVM-F6S Series:

Features: • Higher performance dustproof type • Excellent reliability for heat and humidity • High speed radial automatic mounting and excellent mounting performance

Applications: • Audio visual equipment, home appliances

Specifications: • Rotation Torque: 20 to 300gf • Stopper Strength: 350gf • Rotation Angle: 240°C ±20°C • TCR: ±300ppm (-30°C ~ 100°C) • Nominal Total Resistance & Tolerance: ±25% • Power Rating & Maximum Operating Voltage: 0.3W, 100V (70°C) • Residual Resistance: 10Ω maximum for R≤1kΩ, 1% maximum for 1kΩ<R<100kΩ, 5% maximum for R≥100kΩ • Soldering Heat: 5s maximum 240°C ~ 280°C, 3s maximum 280°C ~ 300°C • Rotation Life: 50 turns.

Fig. 1 - Top Adjust

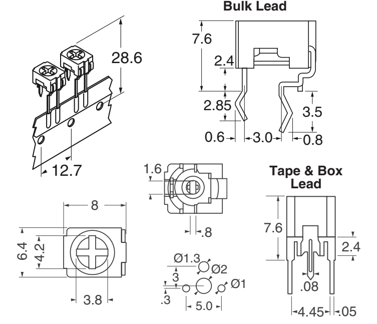

Fig. 2 - Side Adjust

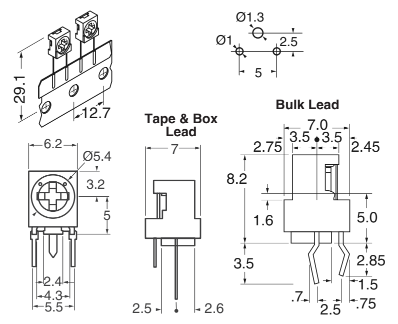

Fig. 3 - Top Adjust

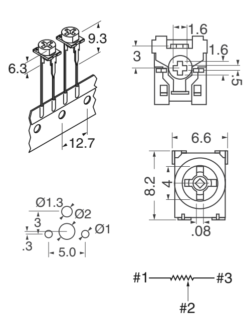

Fig. 4 - Top Adjust

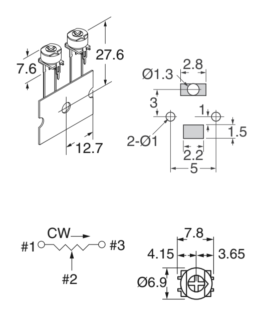

EVM-EAG Series — Top Adjust (Bulk)

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
1	100	EAG12BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B12
	200	EAG22BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B22
	500	EAG52BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B52
	1K	EAG13BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B13
	2K	EAG23BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B23
	5K	EAG53BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B53
	10K	EAG14BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B14
	20K	EAG24BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B24
	50K	EAG54BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B54
	100K	EAG15BK-ND◆	.73	6.05	55.66	242.00	EVM-EAGA00B15
	200K	EAG25BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B25
	500K	EAG55BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B55
	1M	EAG16BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B16

EVM-EAS Series — Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Box Pricing 1,000	5,000	Panasonic Part No.
1	100	EAS12CT-ND	.71	5.88	54.05	EAS12TB-ND	362.00	336.00/M	EVM-EASA00B12
	200	EAS22CT-ND	.71	5.88	54.05	EAS22TB-ND	362.00	336.00/M	EVM-EASA00B22
	500	—	—	—	—	EAS52TB-ND◆	362.00	336.00/M	EVM-EASA00B52
	1K	EAS13CT-ND	.71	5.88	54.05	EAS13TB-ND	362.00	336.00/M	EVM-EASA00B13
	2K	EAS23CT-ND	.71	5.88	54.05	EAS23TB-ND	362.00	336.00/M	EVM-EASA00B23
	5K	EAS53CT-ND	.71	5.88	54.05	EAS53TB-ND	362.00	336.00/M	EVM-EASA00B53
	10K	—	—	—	—	EAS14TB-ND◆	362.00	336.00/M	EVM-EASA00B14
	20K	EAS24CT-ND	.71	5.88	54.05	EAS24TB-ND	362.00	336.00/M	EVM-EASA00B24
	50K	—	—	—	—	EAS54TB-ND	362.00	336.00/M	EVM-EASA00B54
	100K	—	—	—	—	EAS15TB-ND	362.00	336.00/M	EVM-EASA00B15
	200K	—	—	—	—	EAS25TB-ND	362.00	336.00/M	EVM-EASA00B25
	500K	EAS55CT-ND	.71	5.88	54.05	EAS55TB-ND	362.00	336.00/M	EVM-EASA00B55
	1M	EAS16CT-ND	.71	5.88	54.05	EAS16TB-ND	362.00	336.00/M	EVM-EASA00B16

EVM-EYG Series — High Grade, Top Adjust (Bulk)

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
1	2K	EYG23BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B23
	20K	EYG24BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B24
	50K	EYG54BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B54
	100K	EYG15BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B15
	200K	EYG25BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B25
	500K	EYG55BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B55
	1M	EYG16BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B16

EVM-EYS Series — High Grade, Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Tape and Box Pricing 1,000	5,000	10,000	Panasonic Part No.
1	2K	EYS23TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B23
	5K	EYS53TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B53
	10K	EYS14TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B14
	20K	EYS24TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B24
	50K	EYS54TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B54
	200K	EYS25TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B25
	500K	EYS55TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B55
	1M	EYS16TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B16

EVM-EGG Series — Side Adjust (Bulk)

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
2	100	EGG12BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B12
	200	EGG22BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B22
	500	EGG52BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B52
	1K	EGG13BK-ND◆	.71	5.88	54.05	235.00	EVM-EGGA00B13
	2K	EGG23BK-ND◆	.71	5.88	54.05	235.00	EVM-EGGA00B23
	5K	EGG53BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B53
	10K	EGG14BK-ND◆	.71	5.88	54.05	235.00	EVM-EGGA00B14
	20K	EGG24BK-ND◆	.71	5.88	54.05	235.00	EVM-EGGA00B24
	50K	EGG54BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B54
	100K	EGG15BK-ND◆	.71	5.88	54.05	235.00	EVM-EGGA00B15
	200K	EGG25BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B25
	500K	EGG55BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B55
	1M	EGG16BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B16

EVM-EGS Series — Side Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Box Pricing 1,000	5,000	Panasonic Part No.
2	100	EGS12CT-ND	.73	6.05	55.66	EGS12TB-ND	372.00	346.00/M	EVM-EGSA00B12
	200	EGS22CT-ND	.73	6.05	55.66	EGS22TB-ND	372.00	346.00/M	EVM-EGSA00B22
	500	EGS52CT-ND	.73	6.05	55.66	EGS52TB-ND	372.00	346.00/M	EVM-EGSA00B52
	1K	EGS13CT-ND	.73	6.05	55.66	EGS13TB-ND	372.00	346.00/M	EVM-EGSA00B13
	2K	EGS23CT-ND	.73	6.05	55.66	EGS23TB-ND◆	372.00	346.00/M	EVM-EGSA00B23
	5K	EGS53CT-ND	.73	6.05	55.66	EGS53TB-ND	372.00	346.00/M	EVM-EGSA00B53
	10K	—	—	—	—	EGS14TB-ND◆	372.00	346.00/M	EVM-EGSA00B14
	20K	EGS24CT-ND	.73	6.05	55.66	EGS24TB-ND	372.00	346.00/M	EVM-EGSA00B24
	50K	EGS54CT-ND	.73	6.05	55.66	EGS54TB-ND	372.00	346.00/M	EVM-EGSA00B54
	100K	—	—	—	—	EGS15TB-ND◆	372.00	346.00/M	EVM-EGSA00B15
	200K	—	—	—	—	EGS25TB-ND	372.00	346.00/M	EVM-EGSA00B25
	500K	EGS55CT-ND	.73	6.05	55.66	EGS55TB-ND	372.00	346.00/M	EVM-EGSA00B55
	1M	—	—	—	—	EGS16TB-ND	372.00	346.00/M	EVM-EGSA00B16

EVM-F6S Series — Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Box Pricing 1,000	5,000	Panasonic Part No.
3	1K	—	—	—	—	F6SA13TB-ND	213.00	197.00/M	EVM-F6SA00B13
	50K	F6SA54CT-ND	.38	3.28	27.20	—	—	—	EVM-F6SA00B54
	200K	F6SA25CT-ND	.38	3.28	27.20	—	—	—	EVM-F6SA00B25
	500K	F6SA55CT-ND	.38	3.28	27.20	F6SA55TB-ND	213.00	197.00/M	EVM-F6SA00B55

EVM-AAS Series — Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Pricing 1,000	Panasonic Part No.
4	100	AAS12CT-ND	.50	4.15	38.18	AAS12TB-ND	255.00	EVM-AASA00B12
	200	AAS22CT-ND	.50	4.15	38.18	AAS22TB-ND	255.00	EVM-AASA00B22
	500	AAS52CT-ND◆	.50	4.15	38.18	AAS52TB-ND◆	255.00	EVM-AASA00B52
	1K	AAS13CT-ND◆	.50	4.15	38.18	AAS13TB-ND◆	255.00	EVM-AASA00B13
	2K	AAS23CT-ND	.50	4.15	38.18	AAS23TB-ND	255.00	EVM-AASA00B23
	5K	AAS53CT-ND◆	.50	4.15	38.18	AAS53TB-ND◆	255.00	EVM-AASA00B53
	10K	AAS14CT-ND◆	.50	4.15	38.18	AAS14TB-ND◆	255.00	EVM-AASA00B14
	20K	AAS24CT-ND◆	.50	4.15	38.18	AAS24TB-ND◆	255.00	EVM-AASA00B24
	50K	AAS54CT-ND	.50	4.15	38.18	AAS54TB-ND	255.00	EVM-AASA00B54
	100K	AAS15CT-ND	.50	4.15	38.18	AAS15TB-ND	255.00	EVM-AASA00B15
	200K	AAS25CT-ND	.50	4.15	38.18	AAS25TB-ND	255.00	EVM-AASA00B25
	500K	AAS55CT-ND	.50	4.15	38.18	AAS55TB-ND	255.00	EVM-AASA00B55
	1M	AAS16CT-ND	.50	4.15	38.18	AAS16TB-ND	255.00	EVM-AASA00B16

◆ *RoHS Compliant*

Panasonic Ceramic Trimmer Potentiometers

Series EVM-L4G, EVM-L1G, EVM-5AG, and EVM-4LG

Specifications:

• Resistance Range: 100Ω to 1MΩ • Taper: Linear • Tolerance: 25% • Residual: EVM-L4G and EVM-L1G: 5%; EVM-5AG and EVM-4LG: 2% • Wattage Rating: EVM-L4G and EVM-L1G: .2W; EVM-5AG and EVM-4LG: .3W • Voltage Rating: EVM-L4G and EVM-L1G: 50V; EVM-5AG and EVM-4LG: 100V • TCR: EVM-L4G and EVM-L1G: ±300ppm; EVM-5AG and EVM-4LG: ±200ppm • Torque: 20-250 gf • Stopper Strength: EVM-L4G and EVM-L1G: 400gF; EVM-5AG and EVM-4LG: 300gF • Angle of Rotation: 200° ±20° • Operating Temperature: -30°C ~ 100°C

Fig. 1 — 4mm, Vertical

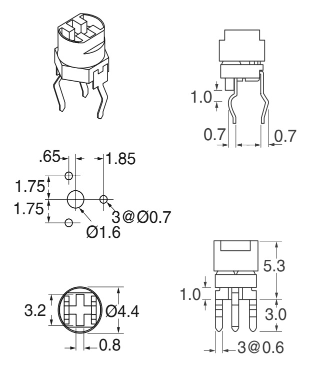

Fig. 2 — 4mm, Right Angle

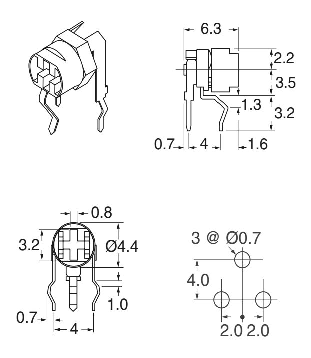

Fig. 3 — 5mm, Vertical

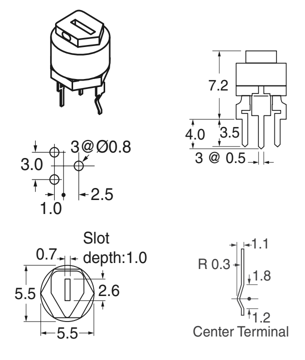

Fig. 4 — 6mm, Vertical

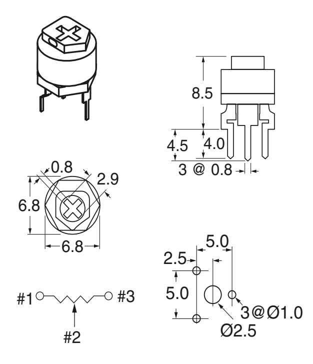

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
EVM-L4G Series — 4mm, Vertical, Top Adjust							
1	2K	L4G23BK-ND	.54	5.01	41.12	192.75	EVM-L4GA00B23
	10K	L4G14BK-ND	.54	5.01	41.12	192.75	EVM-L4GA00B14
	100K	L4G15BK-ND	.54	5.01	41.12	192.75	EVM-L4GA00B15
	200K	L4G25BK-ND	.54	5.01	41.12	192.75	EVM-L4GA00B25
	500K	L4G55BK-ND	.54	5.01	41.12	192.75	EVM-L4GA00B55
	1M	L4G16BK-ND	.54	5.01	41.12	192.75	EVM-L4GA00B16
EVM-L1G Series — 4mm, Right Angle, Side Adjust							
2	100	L1G12BK-ND	.58	5.36	44.00	206.25	EVM-L1GA00B12
	200	L1G22BK-ND	.58	5.36	44.00	206.25	EVM-L1GA00B22
	500	L1G52BK-ND	.58	5.36	44.00	206.25	EVM-L1GA00B52
	1K	L1G13BK-ND	.58	5.36	44.00	206.25	EVM-L1GA00B13
2	5K	L1G53BK-ND	.58	5.36	44.00	206.25	EVM-L1GA00B53
	10K	L1G14BK-ND	.58	5.36	44.00	206.25	EVM-L1GA00B14
	20K	L1G24BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B24
	100K	L1G15BK-ND	.58	5.36	44.00	206.25	EVM-L1GA00B15
	200K	L1G25BK-ND	.58	5.36	44.00	206.25	EVM-L1GA00B25
	500K	L1G55BK-ND	.58	5.36	44.00	206.25	EVM-L1GA00B55
	1M	L1G16BK-ND	.58	5.36	44.00	206.25	EVM-L1GA00B16
EVM-5AG Series — 5mm, Vertical, Top Adjust							
3	100K	5AG15BK-ND	.50	4.64	38.08	178.50	EVM-5AGA00B15
	200K	5AG25BK-ND	.50	4.64	38.08	178.50	EVM-5AGA00B25
EVM-4LG Series — 6mm, Vertical, Top Adjust							
4	100	4LG12BK-ND	.41	3.84	31.52	147.75	EVM-4LGA00B12
	500K	4LG55BK-ND	.41	3.84	31.52	147.75	EVM-4LGA00B55

8mm Trimmer Potentiometers EVN-Series

K4A Series

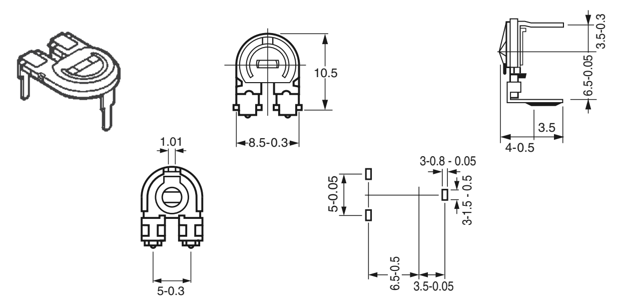

K0A Series

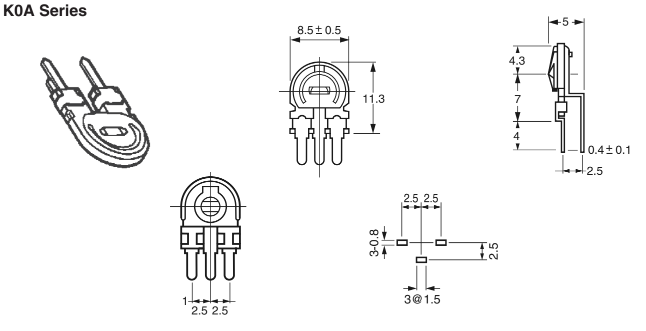

Specifications:

• Resistance Range: 300 to 2MΩ • Taper: Linear • Tolerance: ±30% • Working Voltage: 200V maximum • Power Rating: 0.1 W/50°C • Residual Resistance: Up to 1kΩ: 10Ω maximum Over 1kΩ: 5% of total resistance • Rotation Angle: 260° ± 20° • Rotation Torque: 0.4 to 4.2 in-oz. • Stop Strength: 1 inch/pound • Operating Temperature: –25°C ~ 75°C

Res. (Ω)	Digi-Key Part No. Laydown Version	Digi-Key Part No. Standup Version	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No. Laydown Version	Panasonic Part No. Standup Version
300	—	K0A32-ND	.22	2.02	16.56	144.90	—	—	—	EVN-64AA00B32
2K	K4A23-ND	K0A23-ND	.22	2.02	16.56	144.90	134.55/M	124.20/M	EVN-65AA00B23	EVN-64AA00B23

Panasonic

6mm Carbon Trimmer Potentiometers

SPECIFICATIONS:

Mechanical: • **Rotation Angle:** 210° ±20° • **Rotation Torque:** 20 ~ 250g-cm • **Stopper Strength:** 750gfcm • **Soldering Heat:** 240°C ~ 280°C, 5 seconds maximum; 280°C ~ 300°C, 3 seconds maximum • **Rotation life:** 100 cycles

Electrical: • Power rating: 0.1W (when under 50°C) • Maximum operating voltage: 50V • Taper: B (Linear) • Resistance: 200Ω ~ 1MΩ • Tolerance: ±30%.

FEATURES:

• Miniature size, lightweight, 6.4 x 6.7mm • Suitable for automatic insertion as square housing • Suitable for automatic adjustment as stable rotation torque • Dust proof and flux proof construction • Adjustable from both top and bottom sides • Snap-in mounting terminal for EVN-D8A/D2A

Applications: • Consumer equipment such as TV, VTR (VCR), stereo, radio.

Panasonic

Carbon Trimmer Potentiometers

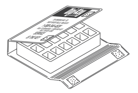

Digi-Key® Assortment Kit
14 Panasonic 6mm Carbon
Trimmer Potentiometers
Panasonic Quality

Cat. No. DXA-KIT-ND.................... **$29.95**

140 6mm Carbon Trimmer Potentiometers: Price includes convenient divided notebook style storage case with bin guide for easy storage and quick access.

EVN-D2A (Side Adjust)

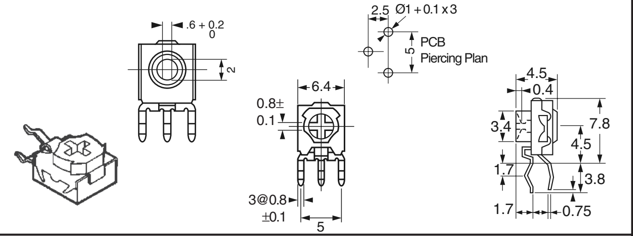

EVN-D8A (Top Adjust)

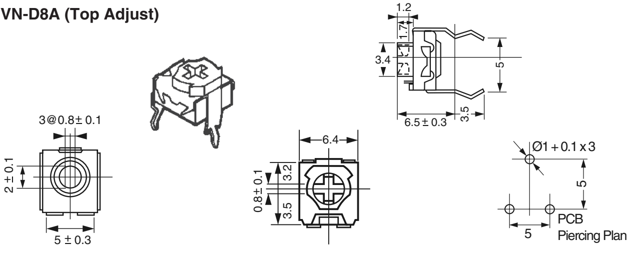

EVN-DCA (Side Adjust)

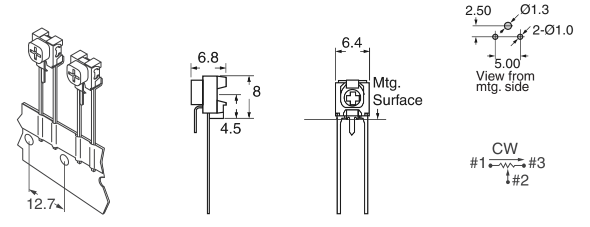

EVN-DJA (Top Adjust)

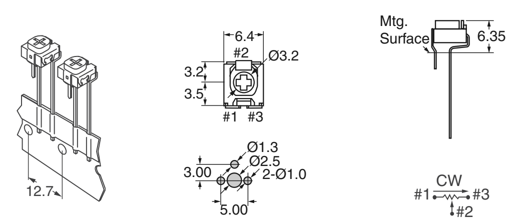

EVN-D2A Side Adjust (Bulk) Series — EVN-D8A Top Adjust (Bulk) Series

Resistance (Ω)	Digi-Key Part No. Side Adjust Version	Digi-Key Part No. Top Adjust Version	1	10	Bulk Pricing 100	500	1,000	Panasonic Part No. Side Adjust Version	Panasonic Part No. Top Adjust Version
200	D1AA22-ND◆*	D4AA22-ND◆*	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B22	EVN-D8AA03B22
500	D1AA52-ND◆*	D4AA52-ND◆	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B52	EVN-D8AA03B52
1K	D1AA13-ND◆*	D4AA13-ND◆*	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B13	EVN-D8AA03B13
2K	D1AA23-ND	D4AA23-ND◆	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B23	EVN-D8AA03B23
5K	D1AA53-ND◆*	D4AA53-ND◆*	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B53	EVN-D8AA03B53
10K	D1AA14-ND◆	D4AA14-ND◆	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B14	EVN-D8AA03B14
20K	D1AA24-ND◆*	D4AA24-ND◆	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B24	EVN-D8AA03B24
50K	D1AA54-ND*	D4AA54-ND◆	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B54	EVN-D8AA03B54
100K	D1AA15-ND◆*	D4AA15-ND◆*	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B15	EVN-D8AA03B15
200K	D1AA25-ND*	D4AA25-ND◆	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B25	EVN-D8AA03B25
500K	D1AA55-ND◆*	D4AA55-ND*	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B55	EVN-D8AA03B55

◆ ***RoHS Compliant*** * Denotes part included in DXA-KIT.

EVN-DCA Side Adjust (Tape) Series — EVN-DJA Top Adjust (Tape) Series

Res. (Ω)	Digi-Key Part No. Side Adjust Version	Digi-Key Part No. Top Adjust Version	1	Cut Tape Pricing 10	100	500	Digi-Key Part No. Side Adjust Version	Digi-Key Part No. Top Adjust Version	Tape & Box Pricing 1,000	Panasonic Part No. Side Adjust Version	Panasonic Part No. Top Adjust Version
200	DCA22CT-ND	DJA22CT-ND	.41	2.99	22.08	82.80	DCA22TB-ND	DJA22TB-ND	129.00	EVN-DCAA03B22	EVN-DJAA03B22
500	DCA52CT-ND	DJA52CT-ND	.41	2.99	22.08	82.80	DCA52TB-ND	DJA52TB-ND	129.00	EVN-DCAA03B52	EVN-DJAA03B52
1K	DCA13CT-ND◆	DJA13CT-ND◆	.41	2.99	22.08	82.80	DCA13TB-ND◆	DJA13TB-ND◆	129.00	EVN-DCAA03B13	EVN-DJAA03B13
2K	DCA23CT-ND	DJA23CT-ND	.41	2.99	22.08	82.80	DCA23TB-ND	DJA23TB-ND	129.00	EVN-DCAA03B23	EVN-DJAA03B23
5K	DCA53CT-ND◆	DJA53CT-ND◆	.41	2.99	22.08	82.80	DCA53TB-ND◆	DJA53TB-ND◆	129.00	EVN-DCAA03B53	EVN-DJAA03B53
10K	DCA14CT-ND	DJA14CT-ND◆	.41	2.99	22.08	82.80	DCA14TB-ND	DJA14TB-ND◆	129.00	EVN-DCAA03B14	EVN-DJAA03B14
20K	DCA24CT-ND	DJA24CT-ND	.41	2.99	22.08	82.80	DCA24TB-ND	DJA24TB-ND	129.00	EVN-DCAA03B24	EVN-DJAA03B24
50K	DCA54CT-ND	DJA54CT-ND◆	.41	2.99	22.08	82.80	DCA54TB-ND	DJA54TB-ND◆	129.00	EVN-DCAA03B54	EVN-DJAA03B54
100K	DCA15CT-ND	DJA15CT-ND	.41	2.99	22.08	82.80	DCA15TB-ND	DJA15TB-ND	129.00	EVN-DCAA03B15	EVN-DJAA03B15
200K	DCA25CT-ND	DJA25CT-ND	.41	2.99	22.08	82.80	DCA25TB-ND	DJA25TB-ND	129.00	EVN-DCAA03B25	EVN-DJAA03B25
500K	DCA55CT-ND	DJA55CT-ND	.41	2.99	22.08	82.80	DCA55TB-ND	DJA55TB-ND	129.00	EVN-DCAA03B55	EVN-DJAA03B55

◆ ***RoHS Compliant***

Panasonic

Cermet Series Trimmer Potentiometers 6mm Diameter Cermet Dust-Proof Type

EVM-31GA
(Horizontal Both Sides Adjust)

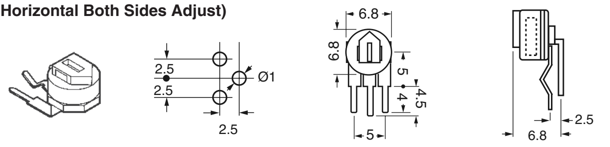

SPECIFICATIONS: • **Resistance Range:** 100 to 500K • **Tolerance:** +25% • **Taper:** Linear • **Residual Resistance:** 5% maximum • **Wattage Rating:** 0.3W maximum (70°C) • **Voltage Rating:** 100V maximum • **TCR:** +200PPM/°C • **Rotation Torque:** 20 to 250g-cm • **Stopper Strength**: 300g-cm minimum • **Rotation Angle:** 200° +20° • **Operating Temperature:** -40°C ~ 101°C (EVM-31G/36G)

Resistance Ω	Digi-Key Part No. Horizontal—31GA	1	Pricing 10	100	Panasonic Part No. Horizontal—31G
100	31G12-ND	.67	5.28	46.08	EVM-31GA00B12
500K	31G55-ND	.67	5.28	46.08	EVM-31GA00B55

Panasonic® “ZNR” Transient/Surge Absorbers Type D and E

Features: • Excellent clamping voltage characteristic and fast response time (50nsec.) when subjected to impulse surges. Eliminates the discharge lag that is indurative of gap-type arrestors. • Bilateral and symmetrical V-1 characteristic curve. The ZNR can, therefore, be used both in AC and DC circuits, for protection of either positive or negative transients. Panasonic ZNRs are zinc oxide nonlinear resistors whose resistance changes as a function of the applied voltage. The ZNR has a bilateral and symmetrical V-1 characteristic curve and can therefore be used in circuits in place of back-to-back zener diodes. This gives your circuit clamping protection in either direction. The ZNR thus provides a highly reliable and economical way to protect against repeated high voltage transients and surges such as those produced by lightning, switching surges and noise spikes.

Ratings: Varistor Voltage: The voltage between two terminals with the specified measuring current CmA DC applied is called Vc. The measurement shall be made as fast as possible to avoid heat affection.

Maximum Allowable Voltage: The recommended maximum sine wave voltage (rms) or the maximum DC voltage that can be applied continuously.

Withstanding Surge Current: The maximum current within the varistor voltage change of 510% with the standard impulse current (8/20µ second) applied one time.

Maximum Clamping Voltage: The maximum voltage between two terminals with the specified standard impulse current (8/20µ second) illustrated.

V Series: ZNR Surge Absorbers Type D, Series V, have been put on the market as a result of the development of a new ceramic material composition, higher quality of parts and materials used in the varistor and an improvement of manufacturing process control. They have a smaller size but a larger surge current and energy ratings so that they can be used in smaller equipment and exhibit their excellent surge protection ability in severe conditions. **Features:** • Improved in “Surge Current Handling Capability (@ 8/20 µs, 2 times)” by 1.6 to 3.0 times over the current conventional type. • Very large “Energy Handling Capability” absorbing transient overvoltages in compact sizes • Varistor voltages 250V-1850V are listed under UL1414, UL1449 and CSA 2221 01, varistor voltages 82-150V are UL1449 only • Wide products range for transient/surge protection on AC 100V to AC 480V nominal system with the maximum peak current ratings of 600A to 6500A (@ 8/20 µs, 2 times) • Operating Temperature Range -40°C ~ 85°C

D-Type
Series V

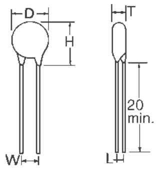

E-Type

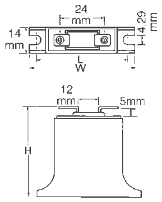

Line to Line Protection
DC AC Single Phase

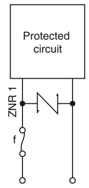

Maximum Clamping Voltage

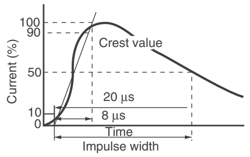

AC Three Phase

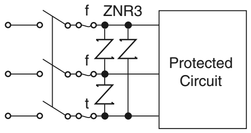

Series	Type	Maximum Allowance Voltage (V)		Varistor Volt. ±10%	Max. Clamp Voltage @ Test Current (8/20µsec.)		Surge Current (A)	Dimensions (mm)					Digi-Key Part No.	Pricing						Panasonic Part No.
		AC	DC	(V)	Vc(V)	Ip(A)		D Max.	T Max.	W ±1	H Max.	L ±1		1	10	100	1,000	5,000	10,000	
5	D Ser.V	11	14	18	40	1	125	7.0	4.5	5.0	10.0	1.5	P7282-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D180
		14	18	22	48	1	125	7.0	4.5	5.0	10.0	1.5	P7283-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D220
		17	22	27	60	1	125	7.0	4.5	5.0	10.0	1.5	P7284-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D270
		20	26	33	73	1	125	7.0	4.5	5.0	10.0	1.5	P7285-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D330
		25	31	39	86	1	125	7.0	4.5	5.0	10.0	1.5	P7286-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D390
		30	38	47	104	1	125	7.0	4.5	5.0	10.0	1.5	P7287-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D470
		35	45	56	123	1	125	7.0	4.5	5.0	10.0	1.5	P7288-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D560
		40	56	68	150	1	125	7.0	4.5	5.0	10.0	1.5	P7289-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D680
		50	65	82	145	5	600	7.0	4.1	5.0	10.0	1.4	P7180-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D820
		60	85	100	175	5	600	7.0	4.3	5.0	10.0	1.6	P7240-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D101
		75	100	120	210	5	600	7.0	4.5	5.0	10.0	1.8	P7241-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D121
		95	125	150	260	5	600	7.0	4.8	5.0	10.0	2.1	P7242-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D151
		130	170	200	355	5	600	7.0	4.4	5.0	10.0	1.7	P7181-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D201
		140	180	220	380	5	600	7.0	4.5	5.0	10.0	1.8	P7182-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D221
		150	200	240	415	5	600	7.0	4.6	5.0	10.0	1.9	P7183-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D241
		175	225	270	475	5	600	7.0	4.8	5.0	10.0	2.1	P7184-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D271
		210	270	330	570	5	600	7.0	5.1	5.0	10.0	2.4	P7185-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D331
		230	300	360	620	5	600	7.0	5.3	5.0	10.0	2.5	P7243-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D361
		250	320	390	675	5	600	7.0	5.4	5.0	10.0	2.7	P7244-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D391
		275	350	430	745	5	600	7.0	5.6	5.0	10.0	2.9	P7245-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D431
		300	385	470	810	5	600	7.0	5.8	5.0	10.0	3.1	P7186-ND◆	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D471
7	D Ser.V	11	14	18	36	2.5	250	8.5	4.5	5.0	11.5	1.3	P7290-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D180
		14	18	22	43	2.5	250	8.5	4.6	5.0	11.5	1.4	P7291-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D220
		17	22	27	53	2.5	250	8.5	4.7	5.0	11.5	1.5	P7292-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D270
		20	26	33	65	2.5	250	8.5	4.9	5.0	11.5	1.7	P7293-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D330
		25	31	39	77	2.5	250	8.5	4.8	5.0	11.5	1.6	P7294-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D390
		30	38	47	93	2.5	250	8.5	4.9	5.0	11.5	1.7	P7295-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D470
		35	45	56	110	2.5	250	8.5	5.0	5.0	11.5	1.8	P7296-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D560
		40	56	68	135	2.5	250	8.5	5.2	5.0	11.5	2.0	P7297-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D680
		50	65	82	135	10	1250	8.5	4.1	5.0	11.5	1.4	P7187-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D820
		60	85	100	165	10	1250	8.5	4.3	5.0	11.5	1.6	P7246-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D101
		75	100	120	200	10	1250	8.5	4.5	5.0	11.5	1.8	P7247-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D121
		95	125	150	250	10	1250	8.5	4.8	5.0	11.5	2.1	P7248-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D151
		130	170	200	340	10	1250	8.5	4.4	5.0	11.5	1.7	P7188-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D201
		140	180	220	360	10	1250	8.5	4.5	5.0	11.5	1.8	P7189-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D221
		150	200	240	395	10	1250	8.5	4.6	5.0	11.5	1.9	P7190-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D241
		175	225	270	455	10	1250	8.5	4.8	5.0	11.5	2.1	P7200-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D271
		210	270	330	545	10	1250	8.5	5.1	5.0	11.5	2.4	P7201-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D331
		230	300	360	595	10	1250	8.5	5.3	5.0	11.5	2.5	P7249-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D361
		250	320	390	650	10	1250	8.5	5.4	5.0	11.5	2.7	P7250-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D391
		275	350	430	710	10	1250	8.5	5.8	5.0	11.5	2.9	P7251-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D431
		300	385	470	775	10	1250	8.5	5.8	5.0	11.5	3.1	P7202-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D471
		320	410	510	845	10	1250	8.5	6.0	5.0	11.5	3.3	P7203-ND◆	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D511
10	D Ser.V	11	14	18	36	5	500	11.5	4.6	7.5	14.5	1.3	P7298-ND◆	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D180
		14	18	22	43	5	500	11.5	4.7	7.5	14.5	1.4	P7299-ND◆	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D220
		17	22	27	53	5	500	11.5	4.8	7.5	14.5	1.5	P7300-ND◆	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D270
		20	26	33	65	5	500	11.5	5.0	7.5	14.5	1.7	P7301-ND◆	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D330
		25	31	39	77	5	500	11.5	4.9	7.5	14.5	1.6	P7302-ND◆	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D390
		30	38	47	93	5	500	11.5	5.0	7.5	14.5	1.7	P7303-ND◆	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D470
		35	45	56	110	5	500	11.5	5.1	7.5	14.5	1.8	P7304-ND◆	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D560
		40	56	68	135	5	500	11.5	5.3	7.5	14.5	2.0	P7305-ND◆	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D680
		50	65	82	135	25	2500	11.5	4.5	7.5	14.5	1.6	P7204-ND◆	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D820
		60	85	100	165	25	2500	11.5	4.7	7.5	14.5	1.8	P7252-ND◆	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D101
		75	100	120	200	25	2500	11.5	4.9	7.5	14.5	2.0	P7253-ND◆	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D121
		95	125	150	250	25	2500	11.5	5.2	7.5	14.5	2.3	P7254-ND◆	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D151
		130	170	200	340	25	2500	11.5	4.8	7.5	14.5	1.9	P7205-ND◆	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D201
		140	180	220	360	25	2500	11.5	4.9	7.5	14.5	2.0	P7206-ND◆	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D221
		150	200	240	395	25	2500	11.5	5.0	7.5	14.5	2.1	P7207-ND◆	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D241
		175	225	270	455	25	2500	11.5	5.2	7.5	14.5	2.3	P7208-ND◆	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D271
		210	270	330	545	25	2500	11.5	5.5	7.5	14.5	2.6	P7209-ND◆	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D331
		230	300	360	595	25	2500	11.5	5.7	7.5	14.5	2.8	P7255-ND◆	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D361
		250	320	390	650	25	2500	11.5	5.8	7.5	14.5	2.9	P7256-ND◆	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D391
		275	350	430	710	25	2500	11.5	6.0	7.5	14.5	3.1	P7257-ND◆	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D431

◆ ***RoHS Compliant***

(Continued)

“ZNR” Transient/Surge Absorbers **Type D and E** *(Cont.)*

Series	Type	Maximum Allowance Voltage (V) AC	DC	Varistor Volt. ±10% (V)	Max. Clamp Voltage @ Test Current (8/20µsec.) Vc(V)	Ip(A)	Surge Current (A)	Dimensions (mm) D Max.	T Max.	W ±1	H Max.	L ±1	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
10	D Ser.V	300	385	470	775	25	2500	11.5	6.2	7.5	14.5	3.3	P7210-ND◆	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D471
		320	410	510	845	25	2500	11.5	6.4	7.5	14.5	3.5	P7211-ND◆	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D511
		385	505	620	1025	25	2500	12.5	7.1	7.5	15.5	4.2	P7258-ND◆	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D621
		420	560	680	1120	25	2500	12.5	7.4	7.5	15.5	4.5	P7259-ND◆	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D681
		460	615	750	1240	25	2500	12.5	7.8	7.5	15.5	4.9	P7260-ND◆	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D751
		510	670	820	1355	25	2500	12.5	8.1	7.5	15.5	5.2	P7212-ND◆	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D821
		550	745	910	1500	25	2500	12.5	8.6	7.5	15.5	5.7	P7213-ND◆	.61	5.22	43.50	248.00	232.00/M	224.00/M	ERZ-V10D911
		625	825	1000	1650	25	2500	12.5	9.1	7.5	15.5	6.2	P7261-ND◆	.61	5.22	43.50	248.00	232.00/M	224.00/M	ERZ-V10D102
		680	895	1100	1815	25	2500	12.5	9.7	7.5	15.5	6.8	P7214-ND◆	.61	5.22	43.50	248.00	232.00/M	224.00/M	ERZ-V10D112
		1000	1465	1800	2970	25	2500	13.5	14.4	11.0	16.5	10.5	P7215-ND◆	1.33	11.40	95.00	542.00	507.00/M	490.00/M	ERZ-V10D182
14	D Ser.V	11	14	18	36	10	1000	15.5	4.6	7.5	18.5	1.3	P7306-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D180
		14	18	22	43	10	1000	15.5	4.7	7.5	18.5	1.4	P7307-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D220
		17	22	27	53	10	1000	15.5	4.8	7.5	18.5	1.5	P7308-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D270
		20	26	33	65	10	1000	15.5	5.0	7.5	18.5	1.7	P7309-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D330
		25	31	39	77	10	1000	15.5	4.9	7.5	18.5	1.6	P7310-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D390
		30	38	47	93	10	1000	15.5	5.0	7.5	18.5	1.7	P7311-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D470
		35	45	56	110	10	1000	15.5	5.1	7.5	18.5	1.8	P7312-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D560
		40	56	68	135	10	1000	15.5	5.3	7.5	18.5	2.0	P7313-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D680
		50	65	82	135	50	4500	15.5	4.5	7.5	18.5	1.6	P7216-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D820
		60	85	100	165	50	4500	15.5	4.7	7.5	18.5	1.8	P7262-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D101
		75	100	120	200	50	4500	15.5	4.9	7.5	18.5	2.0	P7263-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D121
		95	125	150	250	50	4500	15.5	5.2	7.5	18.5	2.3	P7264-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D151
		130	170	200	340	50	4500	15.5	4.8	7.5	18.5	1.9	P7217-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D201
		140	180	220	360	50	4500	15.5	4.9	7.5	18.5	2.0	P7218-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D221
		150	200	240	395	50	4500	15.5	5.0	7.5	18.5	2.1	P7219-ND◆	.49	4.23	35.25	200.93	188.00/M	182.00/M	ERZ-V14D241
		175	225	270	455	50	4500	15.5	5.2	7.5	18.5	2.3	P7220-ND◆	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D271
		210	270	330	545	50	4500	15.5	5.5	7.5	18.5	2.6	P7221-ND◆	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D331
		230	300	360	595	50	4500	15.5	5.7	7.5	18.5	2.8	P7265-ND◆	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D361
		250	320	390	650	50	4500	15.5	5.8	7.8	18.5	2.9	P7266-ND◆	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D391
		275	350	430	710	50	4500	15.5	6.0	7.5	18.5	3.1	P7267-ND◆	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D431
		300	385	470	775	50	4500	15.5	6.2	7.5	18.5	3.3	P7222-ND◆	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D471
		320	410	510	845	50	4500	15.5	6.4	7.5	18.5	3.5	P7223-ND◆	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D511
		385	505	620	1025	50	4500	16.0	7.1	7.5	19.0	4.2	P7268-ND◆	.91	7.83	65.25	372.00	348.00/M	337.00/M	ERZ-V14D621
		420	560	680	1120	50	4500	16.0	7.4	7.5	19.0	4.5	P7269-ND◆	.91	7.83	65.25	372.00	348.00/M	337.00/M	ERZ-V14D681
		460	615	750	1240	50	4500	16.0	7.8	7.5	19.0	4.9	P7270-ND◆	.94	8.06	67.13	383.00	358.00/M	346.00/M	ERZ-V14D751
		510	670	820	1355	50	4500	16.0	8.1	7.5	19.0	5.2	P7224-ND◆	.94	8.06	67.13	383.00	358.00/M	346.00/M	ERZ-V14D821
		550	745	910	1500	50	4500	16.0	8.6	7.5	19.0	5.7	P7225-ND◆	1.28	10.95	91.25	520.00	487.00/M	471.00/M	ERZ-V14D911
		625	825	1000	1650	50	4500	16.0	9.1	7.5	19.0	6.2	P7271-ND◆	1.28	10.95	91.25	520.00	487.00/M	471.00/M	ERZ-V14D102
		680	895	1100	1815	50	4500	16.0	9.7	7.5	19.0	6.8	P7226-ND◆	1.28	10.95	91.25	520.00	487.00/M	471.00/M	ERZ-V14D112
		1000	1465	1800	2970	50	4500	17.0	14.4	15.0	20.5	10.5	P7227-ND◆	1.99	17.04	142.00	809.00	757.00/M	733.00/M	ERZ-V14D182
20	D Ser.V	11	14	18	36	20	2000	21.5	5.1	10.0	24.5	1.5	P7314-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D180
		14	18	22	43	20	2000	21.5	5.2	10.0	24.5	1.6	P7315-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D220
		17	22	27	53	20	2000	21.5	5.3	10.0	24.5	1.7	P7316-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D270
		20	26	33	65	20	2000	21.5	5.5	10.0	24.5	1.9	P7317-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D330
		25	31	39	77	20	2000	21.5	5.5	10.0	24.5	1.9	P7318-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D390
		30	38	47	93	20	2000	21.5	5.6	10.0	24.5	2.0	P7319-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D470
		35	45	56	110	20	2000	21.5	5.7	10.0	24.5	2.1	P7320-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D560
		40	56	68	135	20	2000	21.5	5.8	10.0	24.5	2.2	P7321-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D680
		50	65	82	135	100	6500	21.5	4.9	10.0	24.5	1.8	P7228-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D820
		60	85	100	165	100	6500	21.5	5.1	10.0	24.5	2.0	P7272-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D101
		75	100	120	200	100	6500	21.5	5.3	10.0	24.5	2.2	P7273-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D121
		95	125	150	250	100	6500	21.5	5.6	10.0	24.5	2.5	P7274-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D151
		130	170	200	340	100	6500	21.5	5.2	7.5	24.5	2.1	P7322-ND◆	1.14	9.75	81.25	463.00	433.00/M	419.00/M	ERZ-V20R201
		130	170	200	340	100	6500	21.5	5.2	10.0	24.5	2.1	P7229-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D201
		140	180	220	360	100	6500	21.5	5.3	7.5	24.5	2.2	P7323-ND	.85	7.32	61.00	348.00	325.00/M	315.00/M	ERZ-V20R221
		140	180	220	360	100	6500	21.5	5.3	10.0	24.5	2.2	P7230-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D221
		150	200	240	395	100	6500	21.5	5.4	7.5	24.5	2.3	P7324-ND◆	.85	7.29	60.75	346.28	324.00/M	313.47/M	ERZ-V20R241
		150	200	240	395	100	6500	21.5	5.4	10.0	24.5	2.3	P7231-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D241
		175	225	270	455	100	6500	21.5	5.6	7.5	24.5	2.5	P7325-ND◆	.85	7.29	60.75	346.28	324.00/M	313.47/M	ERZ-V20R271
		175	225	270	455	100	6500	21.5	5.6	10.0	24.5	2.5	P7232-ND◆	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D271
		210	270	330	545	100	6500	21.5	5.9	7.5	24.5	2.8	P7326-ND◆	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R331
		210	270	330	545	100	6500	21.5	5.9	10.0	24.5	2.8	P7233-ND◆	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D331
		230	300	360	595	100	6500	21.5	6.1	7.5	24.5	3.0	P7327-ND◆	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R361
		230	300	360	595	100	6500	21.5	6.1	10.0	24.5	3.0	P7275-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D361
		250	320	390	650	100	6500	21.5	6.2	7.5	24.5	3.1	P7328-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R391
		250	320	390	650	100	6500	21.5	6.2	10.0	24.5	3.1	P7276-ND◆	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D391
		275	350	430	710	100	6500	21.5	6.4	7.5	24.5	3.3	P7329-ND◆	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R431
		275	350	430	710	100	6500	21.5	6.4	10.0	24.5	3.3	P7277-ND◆	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D431
		300	385	470	775	100	6500	21.5	6.6	7.5	24.5	3.5	P7330-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R471
		300	385	470	775	100	6500	21.5	6.6	10.0	24.5	3.5	P7234-ND◆	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D471
		320	410	510	845	100	6500	21.5	6.8	7.5	24.5	3.7	P7331-ND◆	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R511
		320	410	510	845	100	6500	21.5	6.8	10.0	24.5	3.7	P7235-ND◆	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D511
		385	505	620	1025	100	6500	22.5	7.5	10.0	25.5	4.4	P7278-ND◆	1.84	15.74	131.13	747.00	699.00/M	677.00/M	ERZ-V20D621
		420	560	680	1120	100	6500	22.5	7.8	10.0	25.5	4.7	P7279-ND◆	1.84	15.74	131.13	747.00	699.00/M	677.00/M	ERZ-V20D681
		460	615	750	1240	100	6500	22.5	8.2	10.0	25.5	5.1	P7280-ND◆	1.84	15.74	131.13	747.00	699.00/M	677.00/M	ERZ-V20D751
		510	670	820	1355	100	6500	22.5	8.5	10.0	25.5	5.4	P7236-ND	1.84	15.74	131.13	747.00	699.00/M	677.00/M	ERZ-V20D821
		550	745	910	1500	100	6500	22.5	9.0	10.0	25.5	5.9	P7237-ND◆	2.43	20.79	173.25	988.00	924.00/M	894.00/M	ERZ-V20D911
		625	825	1000	1650	100	6500	22.5	9.5	10.0	25.5	6.4	P7281-ND◆	2.43	20.79	173.25	988.00	924.00/M	894.00/M	ERZ-V20D102
		680	895	1100	1815	100	6500	22.5	10.1	10.0	25.5	7.0	P7238-ND	2.43	20.79	173.25	988.00	924.00/M	894.00/M	ERZ-V20D112
		1000	1465	1800	2970	100	6500	23.5	14.8	15.0	28.0	10.7	P7239-ND	3.77	32.31	269.25	1535.00	1436.00/M	1389.00/M	ERZ-V20D182
7	D	140	180	220	360	10	1200	9.0	5.3	5.0	12.0	2.1	P7066-ND	.46	3.90	32.50	185.00	173.00/M	168.00/M	ERZ-C07DK221U
10	D	95	125	150	250	25	2500	13.5	5.5	7.5	16.5	2.2	P7057-ND	.63	5.40	45.00	257.00	240.00/M	232.00/M	ERZ-C10DK151
20	D	60	85	100	165	100	6500	23.0	5.6	10.0	27.0	2.0	P7049-ND	1.13	9.69	80.75	460.00	431.00/M	417.00/M	ERZ-C20DK101
		385	505	620	1025	100	6500	24.0	7.6	10.0	28.0	4.1	P7102-ND	2.65	22.68	189.00	1077.00	1008.00/M	975.00/M	ERZ-C20DK621U
20	E	130	170	200	340	100	8000	—	—	48.0	42.0	39.0	P7126-ND◆	20.58	176.40	1470.00	8379.00	7840.00/M	7585.00/M	ERZ-C20EK201
		150	200	240	395	100	8000	—	—	48.0	42.0	39.0	P7127-ND	20.58	176.40	1470.00	8379.00	7840.00/M	7585.00/M	ERZ-C20EK241
		250	320	390	650	100	8000	—	—	48.0	42.0	39.0	P7128-ND	24.50	210.00	1750.00	9975.00	9333.00/M	9030.00/M	ERZ-C20EK391
32	E	130	170	200	340	200	25000	—	—	60.0	55.0	51.0	P7132-ND◆	45.54	390.30	3252.50	18539.00	17347.00/M	16783.00/M	ERZ-C32EK201
		150	200	240	395	200	25000	—	—	60.0	55.0	51.0	P7133-ND◆	45.54	390.30	3252.50	18539.00	17347.00/M	16783.00/M	ERZ-C32EK241
		250	320	390	650	200	25000	—	—	60.0	55.0	51.0	P7134-ND◆	47.36	405.90	3382.50	19280.00	18040.00/M	17454.00/M	ERZ-C32EK391
		550	1500	910	1500	200	25000	—	—	60.0	55.0	51.0	P7135-ND◆	62.69	537.30	4477.50	25522.00	23880.00/M	23104.00/M	ERZ-C32EK911

◆ ***RoHS Compliant***

Panasonic®

Multilayer Varistor — For DC Voltage Lines

Strontium Titanate (0603 and 0805 Sizes) Surface Mount

Size	Dimensions - mm L	W	T	L_2
0603	1.60	0.80	0.80	0.30
0805	2.00	1.25	0.80	0.50

For EMI noise suppression and transient surge protection.

Features: • Multilayer monolithic construction of SrTiO3 ceramics • Low varistor voltage with high parallel capacitance • Fast response to high speed transient over voltage for ESD protection (IEC1000-4-2) • dV/dt reduction resulting from the large capacitance • Large withstanding surge and energy capabilities • Operating Temperature Range: -40°C ~ 85°C

Size	Maximum Allowable Voltage (VDC)	Varistor Voltage @ 0.1mA (V)	Typical Capacitance @ 1kHz (pF)	Maximum ESD IEC61000-4-2 (kV)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
0603	6	12	8200	30	P822VJCT-ND	1.23	8.67	65.00	P822VJTR-ND	4,000	370.00/M	EZJ-S1VB822
	18	30	3900	30	P392VJCT-ND	1.23	8.67	65.00	P392VJTR-ND	4,000	370.00/M	EZJ-S1VC392
	30	50	1800	30	P182VJCT-ND	1.23	8.67	65.00	P182VJTR-ND	4,000	370.00/M	EZJ-S1VD182
0805	6	12	22000	30	P223ZJCT-ND	.72	4.91	32.49	P223ZJTR-ND	5,000	188.00/M	EZJ-S2VB223
	18	30	8200	30	P822ZJCT-ND	.72	4.91	32.49	P822ZJTR-ND	2,000	195.00/M	EZJ-S2YC822
	30	50	4700	30	P472ZJCT-ND	.72	4.91	32.49	P472ZJTR-ND	2,000	195.00/M	EZJ-S2YD472

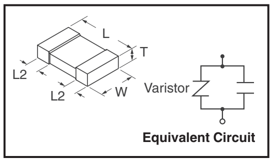

Equivalent Circuit

Multilayer Varistor — Low Capacitance Type for DC Voltage Lines and Low Speed Signal Lines Zinc Oxide Type (0201, 0402 and 0603 Sizes) Surface Mount

Size	Dimensions - mm L	W	T	L_2
0201	0.60	0.30	0.30	0.15
0402	1.00	0.50	0.50	0.20
0603	1.60	0.80	0.80	0.30

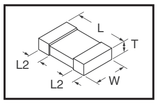

Features: • Multilayer monolithic construction for use in DC voltage or low speed signal line protection circuits • Operating Temperature Range: -40°C ~ 85°C **Applications:** • Mobile Phone • AV equipment • Game console • USB1.1

Digi-Reel®

Size	Maximum Allowable Voltage (VDC)	Varistor Voltage @ 1mA (V)	Maximum Capacitance @ 1MHz (pF)	Maximum Peak Current @ 8/20μS, 2 times (A)	Maximum ESD IEC61000-4-2 (kV)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
0201	6.7	12	47	1	8	P12803CT-ND	.12	1.05	8.84	P12803TR-ND◆	15,000	48.00/M	EZJ-ZZV120EA
	16	27	20	1	8	P12804CT-ND◆	.12	1.05	8.84	P12804TR-ND◆	15,000	48.00/M	EZJ-ZZV270RA
0402	5.5	8	330	20	—	P13574CT-ND◆	.23	2.00	16.80	P13574TR-ND◆	10,000	92.00/M	EZJ-Z0V080KA
	6.7	12	220	10	8	P11403CT-ND◆	.29	1.88	12.28	P11403TR-ND◆	10,000	40.00/M	EZJ-Z0V120JA
	11	18	150	10	8	P13694CT-ND◆	.29	1.88	12.28	P13694TR-ND◆	10,000	40.00/M	EZJ-Z0V180HA
	13	22	150	10	8	P13695CT-ND◆	.29	1.88	12.28	P13695TR-ND◆	10,000	40.00/M	EZJ-Z0V220HA
	16	27	47	10	8	P11404CT-ND◆	.29	1.88	12.28	P11404TR-ND◆	10,000	40.00/M	EZJ-Z0V270EA
	30	42	56	10	8	P13696CT-ND◆	.29	1.88	12.28	P13696TR-ND◆	10,000	40.00/M	EZJ-Z0V420WA
	40	65	27	5	—	P13692CT-ND◆	.34	2.26	14.62	P13692TR-ND◆	10,000	57.00/M	EZJ-Z0V650DA
0603	6.7	12	330	20	8	P12005CT-ND◆	.34	2.27	14.72	P12005TR-ND◆	4,000	63.00/M	EZJ-Z1V120KA
	11	18	220	20	8	P13697CT-ND◆	.34	2.27	14.72	P13697TR-ND◆	4,000	63.00/M	EZJ-Z1V180JA
	13	22	220	20	8	P13698CT-ND◆	.34	2.27	14.72	P13698TR-ND◆	4,000	63.00/M	EZJ-Z1V220JA
	16	27	100	20	8	P10862CT-ND◆	.34	2.27	14.72	P10862TR-ND◆	4,000	63.00/M	EZJ-Z1V270GA
	26	33	100	20	8	P10863CT-ND◆	.34	2.27	14.72	P10863TR-ND◆	4,000	63.00/M	EZJ-Z1V330GA
	30	42	68	15	8	P13699CT-ND◆	.34	2.27	14.72	P13699TR-ND◆	4,000	63.00/M	EZJ-Z1V420FA

◆ *RoHS Compliant*

Multilayer Varistor — Ultra-Low Capacitance Type for High Speed Signal Lines

Zinc Oxide Type (0201, 0402 and 0603 Sizes) Surface Mount

Features: • Multilayer monolithic construction for use in high speed signal line protection circuits • Ultra low capacitance - less than 3pF maximum • Operating Temperature Range: -40°C ~ 85°C
Applications: • Mobile Phone • AV equipment • Game console • USB2.0 • IEEE1394 • HDMI • LAN1000BASE

Size	Maximum Allowable Voltage (VDC)	Varistor Voltage @ 1mA (V)	Maximum Capacitance @ 1MHz (pF)	Maximum ESD IEC61000-4-2 (kV)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
0201	5	80	1	5	P13693CT-ND◆	.48	3.30	22.14	P13693TR-ND◆	15,000	105.00/M	EZJ-ZZV80010
	5	80	3	8	P12801CT-ND	.12	1.05	8.84	P12801TR-ND◆	15,000	48.00/M	EZJ-ZZV800AA
0402	3	27	3	8	P12800CT-ND◆	.16	1.40	11.70	P12800TR-ND◆	10,000	64.00/M	EZJ-Z0V270AA
	5	80	0.5	8	P12987CT-ND◆	.22	1.91	15.99	P12987TR-ND◆	10,000	88.00/M	EZJ-Z0V80005
	6	39	1	4	P13575CT-ND◆	.30	2.62	22.00	P13575TR-ND◆	10,000	121.00/M	EZJ-Z0V39010
	6	39	1.3	6	P13576CT-ND◆	.30	2.62	22.00	P13576TR-ND◆	10,000	121.00/M	EZJ-Z0V39013
	10	80	1	8	P12802CT-ND◆	.34	2.27	14.72	P12802TR-ND◆	10,000	58.00/M	EZJ-Z0V80010
	18	80	3	8	P11992CT-ND◆	.36	2.35	15.34	P11992TR-ND◆	10,000	51.00/M	EZJ-Z0V800AA
	18	170	3	8	P11402CT-ND	.36	2.35	15.34	P11402TR-ND	10,000	51.00/M	EZJ-Z0V171AA
0603	6	39	1	4	P13577CT-ND◆	.40	3.58	30.00	P13577TR-ND◆	4,000	164.00/M	EZJ-Z1V39010
	6	39	1.3	6	P13578CT-ND◆	.40	3.58	30.00	P13578TR-ND◆	4,000	164.00/M	EZJ-Z1V39013
	18	170	3	8	P12006CT-ND◆	.34	2.27	14.72	P12006TR-ND◆	4,000	63.00/M	EZJ-Z1V171AA

Size	Dimensions - mm L	T	W	L_2
0201	0.60	0.30	0.30	0.15
0402	1.00	0.50	0.50	0.20
0603	1.60	0.80	0.80	0.30

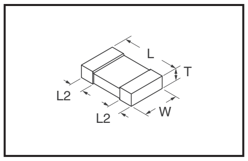

◆ *RoHS Compliant*

Multilayer Varistor — 2 Array Chip Type for High Speed Signal Lines

Features: • Industry's smallest capacitance suitable for high-speed multiple signal lines • 2-chip type with the noise filter function available (suitable for the audio line of mobile phones)

Size	Maximum Allowable Voltage (VDC)	Varistor Voltage @ 1mA (V)	Maximum ESD IEC61000-4-2 (kV)	Maximum Peak Current @ 8/20μs, 2 times (A)	Maximum Capacitance @ 1MHz (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 4,000	Panasonic Part No.
0504	6.7	12	8	10	220	P11989CT-ND	.69	4.74	31.76	P11989TR-ND	154.00/M	EZJ-ZSV120JA
	16	27	—	5	22	P11987CT-ND	1.63	12.25	91.87	P11987TR-ND	523.00/M	EZJ-ZSV270CAK
	16	27	8	5	27	P11988CT-ND	.69	4.74	31.76	P11988TR-ND	154.00/M	EZJ-ZSV270DAK
	16	27	8	10	47	P11990CT-ND	.69	4.74	31.76	P11990TR-ND	154.00/M	EZJ-ZSV270EA
	18	80	8	—	3	P12058CT-ND	.69	4.74	31.76	P12058TR-ND	154.00/M	EZJ-ZSV800AA
	18	170	8	—	3	P11991CT-ND	.69	4.74	31.76	P11991TR-ND	154.00/M	EZJ-ZSV171AA

Dimensions in mm

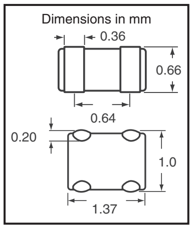

NEW! Multilayer Varistor — For High Speed Signal Lines

Digi-Reel®

Panasonic's newly developed Multi-Layer Chip Varistor EXJ-P0V080 Series reduces ESD suppression voltages at very low threshold voltages. It's clamping effects are reduced by 50% over existing models. It's multilayer construction and enhanced properties have enabled the EZJ-P to be used as a viable alternative to zener diodes and capacitors in high speed signal designs (i.e.: 1 EZJ-P can replace 2 zener diodes and 1 capacitor). This is achieved by providing new ceramic materials with precise crystal particle uniformity and distribution. The EZJ-P series MLCV is available in a 0402 case size with capacitance values of 330 ~ 680pF. It meets IEC61000-4-2 standard and is ideal for USB-2.0, IEEE1354 and HDMI applications.

Size	Maximum Allowable Voltage (VDC)	Varistor Voltage @ 1mA (V)	Clamping Voltage @ 8/20us, 1A (V) max.	Maximum Peak Current @ 8/20μs, 2 times (A)	Maximum Capacitance @ 1MHz (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 10,000	Panasonic Part No.
0402	5.6	8.0	18	20	680	P14128CT-ND	.21	1.88	15.78	P14128-TR-ND	86.00/M	EZJ-P0V080MA
			19	15	330	P14129CT-ND	.21	1.88	15.78	P14129TR-ND	86.00/M	EZJ-P0V080KA
			20	3	100	P14130CT-ND	.21	1.88	15.78	P14130TR-ND	86.00/M	EZJ-P0V080GA

Dimensions in mm

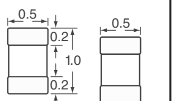

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic®

ZNR/Surge Absorbers With Tabs – Type C Series 32 and 40

These are heavy duty type ZNR with very unique tab terminals which are used as electrical connecting terminals and also its mounting legs. This ZNR is meant for application in power supplies or transient voltage surge suppressor units where high surge current or high surge energy absorption is required.

Features: • High energy handling capability (210 to 710 joules) • Large withstanding surge current (25 to 30kA) • Compact size • Common terminals for electrical connection and mounting • UL recognized

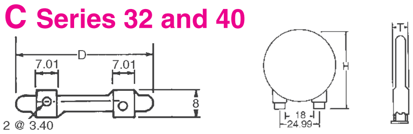

Series	Type	Max. Allow. Volt. (V) AC	Max. Allow. Volt. (V) DC	Varistor Volt. ±10% (V)	Max. Clamp Volt. @ Test Current (8/20μsec.) Vc(V)	Max. Clamp Volt. @ Test Current (8/20μsec.) Lp(A)	Surge Current (kA)	Dimensions (mm) D max.	Dimensions (mm) T ±.99	Dimensions (mm) H max.	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Pricing 1,000	Pricing 5,000	Pricing 10,000	Panasonic Part No.
32	C	130	170	200	340	200	25	35.99	7.49	46.00	P7158-ND◆	16.53	141.69	1180.75	6730.00	6297.00/M	6093.00/M	ERZ-C32CK201W
		150	200	240	395	200	25	35.99	7.49	46.00	P7159-ND	16.53	141.69	1180.75	6730.00	6297.00/M	6093.00/M	ERZ-C32CK241W
		230	300	360	595	200	25	35.99	8.99	46.00	P7160-ND	17.70	151.71	1264.25	7206.00	6743.00/M	6524.00/M	ERZ-C32CK361W
		250	320	390	650	200	25	35.99	8.99	46.00	P7161-ND◆	17.70	151.71	1264.25	7206.00	6743.00/M	6524.00/M	ERZ-C32CK391W
		275	350	430	710	200	25	35.99	8.99	46.00	P7162-ND	17.70	151.71	1264.25	7206.00	6743.00/M	6524.00/M	ERZ-C32CK431W
		385	505	620	1025	200	25	35.99	9.70	46.00	P7163-ND◆	19.96	171.09	1425.75	8127.00	7604.00/M	7357.00/M	ERZ-C32CK621W
		420	560	680	1120	200	25	35.99	9.70	46.00	P7164-ND	19.96	171.09	1425.75	8127.00	7604.00/M	7357.00/M	ERZ-C32CK681W
		460	615	750	1240	200	25	35.99	11.51	46.00	P7165-ND	19.96	171.09	1425.75	8127.00	7604.00/M	7357.00/M	ERZ-C32CK751W
		485	640	780	1290	200	25	35.99	11.51	46.00	P7166-ND	19.96	171.09	1425.75	8127.00	7604.00/M	7357.00/M	ERZ-C32CK781W
		510	670	820	1355	200	25	35.99	11.51	46.00	P7167-ND◆	21.75	186.45	1553.75	8856.00	8287.00/M	8017.00/M	ERZ-C32CK821W
40	C	130	170	200	340	250	30	43.99	7.49	50.01	P7169-ND	24.79	212.52	1771.00	10095.00	9445.00/M	9138.00/M	ERZ-C40CK201W
		150	200	240	395	250	30	43.99	7.49	50.01	P7170-ND	24.79	212.52	1771.00	10095.00	9445.00/M	9138.00/M	ERZ-C40CK241W
		230	300	360	595	250	30	43.99	8.99	50.01	P7171-ND	26.43	226.56	1888.00	10762.00	10069.00/M	9742.00/M	ERZ-C40CK361W
		250	320	390	650	250	30	43.99	8.99	50.01	P7172-ND	26.43	226.56	1888.00	10762.00	10069.00/M	9742.00/M	ERZ-C40CK391W
		275	350	430	710	250	30	43.99	8.99	50.01	P7173-ND	26.43	226.56	1888.00	10762.00	10069.00/M	9742.00/M	ERZ-C40CK431W
		385	505	620	1025	250	30	43.99	9.70	50.01	P7174-ND	31.03	265.98	2216.50	12634.00	11821.00/M	11437.00/M	ERZ-C40CK621W
		420	560	680	1120	250	30	43.99	9.70	50.01	P7175-ND	23.98	205.50	1712.50	9761.00	9133.00/M	8837.00/M	ERZ-C40CK681W
		460	615	750	1240	250	30	43.99	11.51	50.01	P7176-ND	31.03	265.98	2216.50	12634.00	11821.00/M	11437.00/M	ERZ-C40CK751W
		485	640	780	1290	250	30	43.99	11.51	50.01	P7177-ND	31.03	265.98	2216.50	12634.00	11821.00/M	11437.00/M	ERZ-C40CK781W
		510	670	820	1355	250	30	43.99	11.51	50.01	P7178-ND◆	32.28	276.66	2305.50	13141.00	12296.00/M	11896.00/M	ERZ-C40CK821W
		550	745	910	1500	250	30	43.99	11.51	50.01	P7179-ND	35.42	303.60	2530.00	14421.00	13493.00/M	13055.00/M	ERZ-C40CK911W

◆ ***RoHS Compliant***

Surface Mount ZNR/Surge Absorbers Type VFM, CF, SF and VFT

Features:
- Temperature Char. of Varistor Voltage 0 ~ -0.05%/°C
- Operating Temperature Range: -40°C ~ 85°C
- Storage Temperature Range: -40°C ~ 125°C
- Designed for flow/reflow soldering
- Excellent response against high steep surge voltage
- Compact package with large withstanding surge capability
- Low Clamping Voltage for better surge protection
- SF Type has the ability to withstand 2 or 3 times the surge current of the CF Type
- VFT Type has low height

Applications:
- For suppression of surge in electronic equipment
- Semiconductors
- Telephone or telecommunication system
- DAA modules, modem
- Router, Terminal adapter (Digital modem)
- Power supply

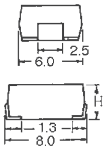

Dimensions in mm

Type	Dim. H
VFM	3.2
CF	3.2
SF	3.2
VFT	2.4

Type	Varistor Voltage ±10% (V)	Max. Allowable Voltage (V) AC	Max. Allowable Voltage (V) DC	Max. Clamping Voltage Vxa(V)‡	Rated Power (W)	Energy (2ms) (J)	Maximum† Peak Current (A)	Digi-Key Part No.	Cut Tape Price Each 10	Cut Tape Price Each 100	Cut Tape Price Each 1,000	Digi-Key Part No.	Tape and Reel Pricing 2,000	Tape and Reel Pricing 6,000	Tape and Reel Pricing 10,000	Panasonic Part No.
VFM	22	14	18	43	0.02	0.9	125	P7345CT-ND◆	16.31	1.37	1.11	P7345TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M220
	27	17	22	53	0.02	1.0	125	P7346CT-ND◆	16.31	1.37	1.11	P7346TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M270
	33	20	26	65	0.02	1.2	125	P7347CT-ND◆	16.31	1.37	1.11	P7347TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M330
	39	25	31	77	0.02	1.5	125	P7348CT-ND◆	16.31	1.37	1.11	P7348TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M390
	47	30	38	93	0.02	1.8	125	P7349CT-ND◆	16.31	1.37	1.11	P7349TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M470
	56	35	45	110	0.02	2.2	125	P7350CT-ND◆	16.31	1.37	1.11	P7350TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M560
	68	40	56	135	0.02	2.5	125	P7351CT-ND◆	16.31	1.37	1.11	P7351TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M680
	82	50	65	135	0.1	2.5	600	P7337CT-ND◆	16.31	1.37	1.11	P7337TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M820
	100	60	85	165	0.1	3.0	600	P7338CT-ND	16.31	1.37	1.11	P7338TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M101
	120	75	100	200	0.1	3.5	600	P7339CT-ND	16.31	1.37	1.11	P7339TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M121
	150	95	125	250	0.1	4.5	600	P7340CT-ND	16.31	1.37	1.11	P7340TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M151
	200	130	170	340	0.1	6.0	600	P7341CT-ND	16.31	1.37	1.11	P7341TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M201
	220	140	180	360	0.1	6.5	600	P7342CT-ND	16.31	1.37	1.11	P7342TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M221
	240	150	200	395	0.1	7.5	600	P7343CT-ND◆	16.31	1.37	1.11	P7343TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M241
	270	175	225	455	0.1	8.0	600	P7344CT-ND◆	16.31	1.37	1.11	P7344TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M271
	330	210	270	545	0.1	8.0	300	P7352CT-ND◆	16.31	1.37	1.11	P7352TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M331
	360	230	300	595	0.1	9.0	300	P7353CT-ND◆	16.31	1.37	1.11	P7353TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M361
	390	250	320	650	0.1	9.0	300	P7354CT-ND◆	16.31	1.37	1.11	P7354TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M391
	430	275	350	710	0.1	10.0	300	P7355CT-ND◆	16.31	1.37	1.11	P7355TR-ND◆	750.00/M	701.00/M	658.00/M	ERZ-VF2M431
	470	300	385	775	0.1	10.0	300	P7356CT-ND◆	16.31	1.37	1.11	P7356TR-ND◆	750.00/M	701.00/M	729.00/M	ERZ-VF2M471
CF	22	14	18	48	0.01	0.4	50	P220ZFCT-ND◆*	18.07	1.52	1.23	P220ZFTR-ND◆*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK220
	27	17	22	60	0.01	0.5	50	P270ZFCT-ND◆*	18.07	1.52	1.23	P270ZFTR-ND◆*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK270
	33	20	26	73	0.01	0.6	50	P330ZFCT-ND*	18.07	1.52	1.23	P330ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK330
	39	25	31	86	0.01	0.8	50	P390ZFCT-ND*	18.07	1.52	1.23	P390ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK390
	47	30	38	104	0.01	1.0	50	P470ZFCT-ND*	18.07	1.52	1.23	P470ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK470
	56	35	45	123	0.01	1.0	50	P560ZFCT-ND*	18.07	1.52	1.23	P560ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK560
	68	40	56	150	0.01	1.2	50	P680ZFCT-ND*	18.07	1.52	1.23	P680ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK680
	82	50	65	145	0.1	1.7	200	P820ZFCT-ND*	18.07	1.52	1.23	P820ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK820
	100	60	85	175	0.1	2.0	200	P101ZFCT-ND*	18.07	1.52	1.23	P101ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK101
	120	75	100	210	0.1	2.5	200	P121ZFCT-ND*	18.07	1.52	1.23	P121ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK121
	150	95	125	200	0.1	3.0	200	P151ZFCT-ND*	18.07	1.52	1.23	P151ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK151
	200	130	170	355	0.1	4.0	200	P201ZFCT-ND◆*	18.07	1.52	1.23	P201ZFTR-ND◆*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK201
	220	140	180	380	0.1	4.5	200	P221ZFCT-ND*	18.07	1.52	1.23	P221ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK221
	240	150	200	415	0.1	5.0	200	P241ZFCT-ND*	18.07	1.52	1.23	P241ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK241
	270	175	225	475	0.1	6.0	200	P271ZFCT-ND*	18.07	1.52	1.23	P271ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK271
	360	230	300	620	0.1	6.0	200	P361ZFCT-ND*	18.07	1.52	1.23	P361ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK361
	390	260	320	675	0.1	6.0	200	P391ZFCT-ND◆*	18.07	1.52	1.23	P391ZFTR-ND◆*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK391
	430	275	350	745	0.1	6.3	200	P431ZFCT-ND*	18.07	1.52	1.23	P431ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK431
	470	300	385	810	0.1	7.0	200	P471ZFCT-ND*	18.07	1.52	1.23	P471ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK471
SF	22	14	18	43	0.02	0.9	125	P220ZSCT-ND◆*	20.03	1.68	1.36	P220ZSTR-ND◆*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK220
	27	17	22	53	0.02	1.0	125	P270ZSCT-ND◆*	20.03	1.68	1.36	P270ZSTR-ND◆*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK270
	33	20	26	65	0.02	1.2	125	P330ZSCT-ND◆*	20.03	1.68	1.36	P330ZSTR-ND◆*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK330
	39	25	31	77	0.02	1.5	125	P390ZSCT-ND◆*	20.03	1.68	1.36	P390ZSTR-ND◆*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK390
	47	30	38	93	0.02	1.8	125	P470ZSCT-ND◆*	20.03	1.68	1.36	P470ZSTR-ND◆*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK470
	56	35	45	110	0.02	2.2	125	P560ZSCT-ND*	20.03	1.68	1.36	P560ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK560
	68	40	56	135	0.02	2.5	125	P680ZSCT-ND◆*	20.03	1.68	1.36	P680ZSTR-ND◆*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK680
	82	50	65	135	0.25	3.5	600	P820ZSCT-ND◆*	20.03	1.68	1.36	P820ZSTR-ND◆*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK820
	120	75	100	200	0.25	5.0	600	P121ZSCT-ND*	20.03	1.68	1.36	P121ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK121
	220	140	180	360	0.25	9.0	600	P221ZSCT-ND◆*	20.03	1.68	1.36	P221ZSTR-ND◆*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK221
	240	150	200	395	0.25	10.0	600	P241ZSCT-ND◆*	20.03	1.68	1.36	P241ZSTR-ND◆*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK241
	270	175	225	455	0.25	12.0	600	P271ZSCT-ND*	20.03	1.68	1.36	P271ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK271
	390	250	320	650	0.25	12.0	400	P391ZSCT-ND◆*	20.03	1.68	1.36	P391ZSTR-ND◆*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK391
	470	300	385	775	0.25	12.0	400	P471ZSCT-ND◆*	20.03	1.68	1.36	P471ZSTR-ND◆*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK471
VFT	82	50	65	145	0.1	1.7	400	P7332CT-ND	15.87	1.34	1.08	—	—	—	—	ERZ-VF2T820
	100	60	85	175	0.1	2.0	400	P7333CT-ND	15.87	1.34	1.08	—	—	—	—	ERZ-VF2T101
	150	95	125	260	0.1	3.0	400	P7334CT-ND	15.87	1.34	1.08	P7334TR-ND	729.00/M	682.00/M	640.00/M	ERZ-VF2T151
	270	175	225	475	0.1	6.0	400	P7336CT-ND	15.87	1.34	1.08	P7336TR-ND	729.00/M	682.00/M	640.00/M	ERZ-VF2T271

◆ ***RoHS Compliant*** ‡ Measuring Current of Maximum Clamping Voltage is as follows: For Varistor Voltage of 22 to 68 V: xA=1A, For Varistor Voltage of 82 to 470 V: xA=5A, For Varistor Voltage of VFM: xA=10A
† (8/20 μs, 2 times) * Not recommended for new design

Multilayer Varistor TVS Surface Mount ML Series

These components are designed to suppress a variety of transient events, including those specified in IEC and other standards used for Electromagnetic Compliance (EMC). The ML Series is typically applied to protect integrated circuits and other components at the circuit board level.

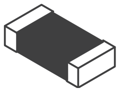

SPECIFICATIONS:
- Typical leakage at 25°C<25A, maximum leakage, 100A at V_M(DC) • Average power dissipation of transients for 0402, 0603, 0805, 1206 and 1210 sizes not to exceed 0.03W, 0.05W, 0.1W, 0.1W and 0.15W respectively

FEATURES:
- Multilayer ceramic construction technology • Operating Temperature Range: -55°C ~ 125°C • Operating Voltage Range: 5.5V to 120V • Inherent Bi-directional clamping • No plastic or epoxy packaging assures better than 94V-0 flammability rating

APPLICATIONS:
- Suppression of inductive switching or other transient events such as EFT and surge voltage at the circuit board level • ESD Protection for components sensitive to IEC 61000-4-2, MIL-STD 883C Method 3015.7 and other industry specifications. (See also the MLN and MLE Series) • Replace larger surface mount TVS zeners in many applications

Pkg.	Max. Cont. Working Voltage		Max. Clamping Voltage @ 1A (8/20µs)	Max. Non-Repetitive Surge Current (8/20µs) (A)	Max. Non-Repetitive Surge Energy (10/1000µs) (J)	Nominal Voltage @ 1mA DC Test Current		Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Littelfuse Part No.
	DC	AC				Min.	Max.			1	10	100		Qty.	Pricing	
0603	3.5	2.5	13	30	0.1	3.7	7.0	1270	F2205CT-ND	.44	4.07	34.22	F2205TR-ND	2,500	162.00/M	V3.5MLA0603H
0805	3.5	2.5	13	40	0.1	3.7	7.0	1380	F2207CT-ND	.52	4.76	40.02	F2207TR-ND	2,500	189.00/M	V3.5MLA0805LH
0805	3.5	2.5	13	120	0.3	3.7	7.0	2530	F2206CT-ND	.52	4.76	40.02	F2206TR-ND	2,500	189.00/M	V3.5MLA0805H
1206	3.5	2.5	13	100	0.3	3.7	7.0	6000	F2208CT-ND	1.00	9.18	77.14	F2208TR-ND	2,500	364.00/M	V3.5MLA1206H
0402	5.5	4.0	38	20	0.05	15.9	21.5	70	F2259CT-ND*	.35	3.17	26.68	F2259TR-ND*	10,000	115.00/M	V5.5MLA0402LNR
0402	5.5	4.0	19	20	0.05	7.1	10.8	220	F2258CT-ND*	.35	3.17	26.68	F2258TR-ND*	10,000	115.00/M	V5.5MLA0402NR
0603	5.5	4.0	17.5	30	0.1	7.1	9.3	760	F2214CT-ND	.44	4.07	34.22	F2214TR-ND	2,500	162.00/M	V5.5MLA0603H
0805	5.5	4.0	17.5	40	0.1	7.1	9.3	990	F2216CT-ND	.52	4.76	40.02	F2216TR-ND	2,500	189.00/M	V5.5MLA0805LH
0805	5.5	4.0	17.5	40	0.1	7.1	9.3	990	F2217CT-ND*	.58	5.31	44.66	F2217TR-ND*	2,500	211.00/M	V5.5MLA0805LNH
0805	5.5	4.0	17.5	120	0.3	7.1	9.3	1840	F2215CT-ND	.52	4.76	40.02	F2215TR-ND	2,500	189.00/M	V5.5MLA0805H
1206	5.5	4.0	17.5	150	0.4	7.1	9.3	5180	F2218CT-ND	1.00	9.18	77.14	F2218TR-ND	2,500	364.00/M	V5.5MLA1206H
1206	5.5	4.0	17.5	150	0.4	7.1	9.3	5180	F2219CT-ND*	1.11	10.25	86.13	F2219TR-ND*	2,500	407.00/M	V5.5MLA1206NH
0402	9	6.5	35	4	0.02	11	16	33	F2261CT-ND*	.35	3.17	26.68	F2261TR-ND*	10,000	115.00/M	V9MLA0402LNR
0402	9	6.5	30	20	0.05	11	16	120	F2260CT-ND*	.35	3.17	26.68	F2260TR-ND*	10,000	115.00/M	V9MLA0402NR
0603	9	6.5	25.5	30	0.1	11	16	490	F2226CT-ND	.44	4.07	34.22	F2226TR-ND	2,500	162.00/M	V9MLA0603H
0603	9	6.5	25.5	30	0.1	11	16	490	F2227CT-ND*	.50	4.59	38.57	F2227TR-ND*	2,500	182.00/M	V9MLA0603NH
0805	9	6.5	25.5	40	0.1	11	16	520	F2228CT-ND	.52	4.76	40.02	F2228TR-ND	2,500	189.00/M	V9MLA0805LH
0402	14	10	38	20	0.05	15.9	21.5	70	F2262CT-ND*	.35	3.17	26.68	F2262TR-ND*	10,000	115.00/M	V14MLA0402NR
0603	14	10	34.5	30	0.1	15.9	21.5	180	F2173CT-ND	.44	4.07	34.22	F2173TR-ND	2,500	162.00/M	V14MLA0603H
0603	14	10	34.5	30	0.1	15.9	21.5	180	F2174CT-ND*	.50	4.59	38.57	F2174TR-ND*	2,500	182.00/M	V14MLA0603NH
0805	14	10	32	40	0.1	15.9	20.3	320	F2176CT-ND	.52	4.76	40.02	F2176TR-ND	2,500	189.00/M	V14MLA0805LH
0805	14	10	32	40	0.1	15.9	20.3	320	F2177CT-ND*	.58	5.31	44.66	F2177TR-ND*	2,500	211.00/M	V14MLA0805LNH
0805	14	10	32	120	0.3	15.9	20.3	560	F2175CT-ND	.52	4.76	40.02	F2175TR-ND	2,500	189.00/M	V14MLA0805H
1206	14	10	32	150	0.4	15.9	20.3	1840	F2178CT-ND	1.00	9.18	77.14	F2178TR-ND	2,500	364.00/M	V14MLA1206H
1206	14	10	32	150	0.4	15.9	20.3	1840	F2179CT-ND*	1.11	10.25	86.13	F2179TR-ND*	2,500	407.00/M	V14MLA1206NH
0402	18	14	50	20	0.05	22	28	40	F2263CT-ND*	.35	3.17	26.68	F2263TR-ND*	10,000	115.00/M	V18MLA0402NR
0603	18	14	50	30	0.1	22	28	120	F2181CT-ND	.44	4.07	34.22	F2181TR-ND	2,500	162.00/M	V18MLA0603H
0805	18	14	44	40	0.1	22	28	290	F2183CT-ND	.52	4.76	40.02	F2183TR-ND	2,500	189.00/M	V18MLA0805LH
0805	18	14	44	40	0.1	22	28	290	F2184CT-ND*	.58	5.31	44.66	F2184TR-ND*	2,500	211.00/M	V18MLA0805LNH
0805	18	14	44	120	0.3	22	28	520	F2182CT-ND	.52	4.76	40.02	F2182TR-ND	2,500	189.00/M	V18MLA0805H
1206	18	14	44	150	0.4	22	28	1270	F2185CT-ND	1.00	9.18	77.14	F2185TR-ND	2,500	364.00/M	V18MLA1206H
1210	18	14	44†	500	2.5	22	28	1440	F2186CT-ND	1.19	10.97	92.22	F2186TR-ND	2,000	461.00/M	V18MLA1210H
0603	26	20	60	30	0.1	31	38	110	F2191CT-ND	.44	4.07	34.22	F2191TR-ND	2,500	162.00/M	V26MLA0603H
0805	26	20	60	40	0.1	29.5	38.5	140	F2193CT-ND	.52	4.76	40.02	F2193TR-ND	2,500	189.00/M	V26MLA0805LH
0805	26	20	60	40	0.1	29.5	38.5	140	F2194CT-ND*	.58	5.31	44.66	F2194TR-ND*	2,500	211.00/M	V26MLA0805LNH
0805	26	20	60	100	0.3	29.5	38.5	220	F2192CT-ND	.52	4.76	40.02	F2192TR-ND	2,500	189.00/M	V26MLA0805H
0805	26	20	60	100	0.3	29.5	38.5	220	F2195CT-ND*	.58	5.31	44.66	F2195TR-ND*	2,500	211.00/M	V26MLA0805NH
1206	26	20	60	150	0.6	29.5	38.5	1040	F2196CT-ND	1.00	9.18	77.14	F2196TR-ND	2,500	364.00/M	V26MLA1206H
1206	26	20	60	150	0.6	29.5	38.5	1040	F2197CT-ND*	1.11	10.25	86.13	F2197TR-ND*	2,500	407.00/M	V26MLA1206NH
1210	26	20	60†	300	1.2	29.5	38.5	1040	F2198CT-ND	1.19	10.97	92.22	F2198TR-ND	2,000	461.00/M	V26MLA1210H
0603	30	25	74	30	0.1	37	46	90	F2199CT-ND	.44	4.07	34.22	F2199TR-ND	2,500	162.00/M	V30MLA0603H
0805	30	25	72	30	0.1	37	46	90	F2200CT-ND	.52	4.76	40.02	F2200TR-ND	2,500	189.00/M	V30MLA0805LH
1210	30	25	68†	280	1.2	35	43	1820	F2201CT-ND	1.19	10.97	92.22	F2201TR-ND	2,000	461.00/M	V30MLA1210H
1206	33	26	75	180	0.8	38	49	640	F2203CT-ND	1.00	9.18	77.14	F2203TR-ND	2,500	364.00/M	V33MLA1206H
1206	33	26	75	180	0.8	38	49	640	F2204CT-ND*	1.11	10.25	86.13	F2204TR-ND*	2,500	407.00/M	V33MLA1206NH
1206	42	30	92	180	0.8	46	60	640	F2209CT-ND	1.00	9.18	77.14	F2209TR-ND	2,500	364.00/M	V42MLA1206H
1206	42	30	92	180	0.8	46	60	640	F2210CT-ND*	1.11	10.25	86.13	F2210TR-ND*	2,500	407.00/M	V42MLA1206NH
1210	48	40	105†	250	1.2	54.5	66.5	520	F2211CT-ND	1.19	10.97	92.22	F2211TR-ND	2,000	461.00/M	V48MLA1210H
1206	56	40	120	180	1.0	61	77	180	F2212CT-ND	1.00	9.18	77.14	F2212TR-ND	2,500	364.00/M	V56MLA1206H
1210	60	50	130†	250	1.5	67	83	440	F2220CT-ND	1.19	10.97	92.22	F2220TR-ND	2,000	461.00/M	V60MLA1210H
1206	68	50	140	180	1.0	76	90	180	F2221CT-ND	1.00	9.18	77.14	F2221TR-ND	2,500	364.00/M	V68MLA1206H
1206	68	50	140	180	1.0	76	90	180	F2222CT-ND*	1.11	10.25	86.13	F2222TR-ND*	2,500	407.00/M	V68MLA1206NH
1210	85	67	180†	250	2.5	95	115	260	F2223CT-ND	1.19	10.97	92.22	F2223TR-ND	2,000	461.00/M	V85MLA1210H
1210	85	67	180†	250	2.5	95	115	260	F2224CT-ND*	1.38	12.73	107.01	F2224TR-ND*	2,000	535.00/M	V85MLA1210NH
1210	120	107	260†	125	2.0	135	165	80	F2170CT-ND	1.19	10.97	92.22	F2170TR-ND	1,000	461.00	V120MLA1210H

* Nickel Plated Terminations † @ 2.5A

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Varistor (MOVs) Axial Leaded MA Series

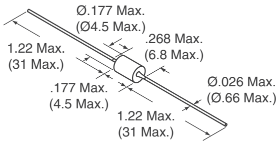

The MA Series of transient surge suppressors are axial-lead metal-oxide varistors (MOVs) for use in a wide variety of board level industrial and commercial electronic equipment. They are intended to protect components and signal/data lines from low energy transients where the small axial lead package is required.

Specifications:
- Hi-Pot Encapsulation (Isolation Voltage Capability): 1,000V
- Operating Temperature: -55°C ~ 85°C (No derating up to 85°C ambient)
- Insulation Resistance: 1,000MΩ

Max. Cont. Working Voltage V(RMS)†	VDC†	Varistor Voltage @ 1mA DC Min.‡	Nom.‡	Max.‡	Max. Non-Repetitive Surge Current (8/20μs) (A)†	Max. Clamp Voltage @ 2A (8/20μs) (V)‡	Capac-itance (pF)‡	Part Marking	Digi-Key Part No.	Price Each 1	10	100	Littelfuse Part No.
9	13	14	18	23	40	49	550	18A	F2271-ND	.67	.62	.47	V18MA1A
10	14	15	18	21	40	44	550	18B	F2272-ND	.67	.62	.47	V18MA1B
10	15	16	22	28	40	55	410	22A	F2273-ND	.67	.62	.47	V22MA1A
14	18	19	22	26	40	51	410	22B	F2274-ND	.67	.62	.47	V22MA1B
17	22	24	27	31	40	59	370	27B	F2276-ND	.67	.62	.47	V27MA1B
18	23	26	33	40	40	73	300	33A	F2277-ND	.67	.62	.47	V33MA1A
20	26	29.5	33	36.5	40	67	300	33B	F2278-ND	.67	.62	.47	V33MA1B
22	28	31	39	47	40	86	250	39A	F2279-ND	.67	.62	.47	V39MA2A
25	31	35	39	43	40	79	250	39B	F2280-ND	.67	.62	.47	V39MA2B
27	34	37	47	57	40	99	210	47A	F2281-ND	.67	.62	.47	V47MA2A
30	38	42	47	52	40	90	210	47B	F2282-ND	.67	.62	.47	V47MA2B
32	40	44	56	68	40	117	180	56A	F2283-ND	.67	.62	.47	V56MA2A
38	48	54	68	82	40	138	150	68A	F2285-ND	.67	.62	.47	V68MA3A
40	56	61	68	75	40	127	150	68B	F2286-ND	.67	.62	.47	V68MA3B
57	72	80	100	120	40	200	100	100	F2289-ND	.80	.74	.56	V100MA4A
60	81	90	100	110	40	185	100	101	F2290-ND	.80	.74	.56	V100MA4B
132	181	187	220	253	100	380	21	220	F2297-ND	.67	.62	.47	V220MA2A
138	191	198	220	242	100	360	21	221	F2298-ND	.67	.62	.47	V220MA4B
253	349	365	430	495	100	740	11	430	F2305-ND	.67	.62	.47	V430MA3A
264	365	387	430	473	100	700	11	431	F2306-ND	.67	.62	.47	V430MA7B

Note: Average power dissipation of transients not to exceed 200mW. † Maximum ratings at 85°C. ‡ Ratings at 25°C.

High Speed Multilayer Varistor TVS Surface Mount ESD Surge Suppressor

MHS Series

This series provides protection from ESD and EFT in high-speed data-line and other high frequency applications. The low capacitance of the MHS series permits usage in analog or digital circuits where it will not attenuate or distort the desired signal or data. Well suited to suppress ESD events such as specified in IEC 61000-4-2 or other standards used for ElectroMagnetic Compliance (EMC) testing.

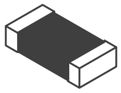

Features: • 3pF and 12pF Capacitance versions are suitable for high-speed data-rate lines • Rated for ESD IEC 61000-4-2 (Level 4) • Rated for EFT/B IEC 61000-4-4 (Level 4) • Inherently Bi-directional • Operating Temperature: -55°C ~ 125°C • Construction: Multi-layer semiconducting ceramics • Nickel-plated terminations • Reel Option: 7 inch (178mm) diameter

Applications: • Data, Diagnostic I/O Ports • USB (Universal Serial Bus) • Video and Audio Ports • Portable/Hand-Held Products • Industrial Instruments including Medical

Package	Max. Cont. Working Voltage ≤ (V)	Max. Non-Repetitive Surge Energy (10/1000μs) (J)	Max. Clamp Voltage @ 1A (8x20μs) (Vc)	Max. ESD Clamp Voltage† < 8kV Contact‡ (V)	< 15kV Air‡‡ (V)	Max. Leakage Current I_L @ 15V (μA)	Capacitance @ 1MHz (1V p-p) (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Littelfuse Part No.
0402	42	0.010	110	300	400	0.50	3	F2265CT-ND	.31	.29	.24	F2265TR-ND	10,000	103.00/M	V0402MHS03NR
	18	0.025	55	125	160	5.0	12	F2266CT-ND	.31	.29	.24	F2266TR-ND	10,000	103.00/M	V0402MHS12NR
	9	0.020	30	65	100	1.0 @ 5.5V	22	F2267CT-ND	.31	.29	.24	F2267TR-ND	10,000	103.00/M	V0402MHS22NR
0603	42	0.010	110	300	400	0.50	3	F2268CT-ND	.39	.36	.30	F2268TR-ND	2,500	141.00/M	V0603MHS03NH
	18	0.025	55	125	160	5.0	12	F2269CT-ND	.39	.36	.30	F2269TR-ND	2,500	141.00/M	V0603MHS12NH
	9	0.020	30	65	100	1.0 @ 5.5V	22	F2270CT-ND	.39	.36	.30	F2270TR-ND	2,500	141.00/M	V0603MHS22NH

† Tested to IEC-61000-4-2 Human Body Model (HBM) discharge test circuit. ‡ Direct discharge to device terminals (IEC preferred test method). ‡‡ Corona discharge through air (represents actual ESD event).

Multilayer Varistor TVS Surface Mount ESD Suppressor/Filter

MLE Series

These components are designed to suppress ESD events, including those specified in IEC61000-4-2 or other Standards used for Electromagnetic Compliance testing.

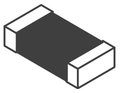

Features: • Rated for ESD (IEC 61000-4-2) • Characterized for Impedance and Capacitance • Operating Temperature Range: -55°C ~ 125°C • Multilayer Ceramic Construction Technology • Reel Option: 7 inch (178mm) diameter

Applications: • Protection of components and circuits sensitive to ESD Transients occurring on power supplies; control and signal lines. • Suppression of ESD events such as specified in IEC 61000-4-2 or MIL-STD-883C method 3015-7: for Electromagnetic Compliance (EMC).

Package	Max. Cont. Working ≤ Voltage§	Nominal Voltage @1mA DC Min.	Max.	Max. ESD Clamp Voltage† < 8kV Contact‡	< 15kV Air‡‡	Max. Leakage I_L@18V(μA)	Capac-itance < (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Littelfuse Part No.
0402	18	22	28	125	160	10	40	F2264CT-ND	.35	.32	.27	F2264TR-ND	10,000	115.00/M	V18MLE0402NR
0603	18	22	28	75	85	25	100	F2188CT-ND	.42	.39	.33	F2188TR-ND	2,500	155.00/M	V18MLE0603H
0805	18	22	28	70	75	25	500	F2189CT-ND	.52	.48	.41	F2189TR-ND	2,500	189.00/M	V18MLE0805H
1206	18	22	28	65	65	25	1700	F2190CT-ND	1.00	.92	.78	F2190TR-ND	2,500	364.00/M	V18MLE1206H

§ For applications of 18VDC or less. Higher voltages available. † Tested to IEC61000-4-2 Human Body Model (HBM) discharge test circuit. ‡ Direct discharge to device terminals (IEC preferred test method).
‡‡ Corona discharge through air (represents actual ESD event).

Surge Arrestors

Features: • Hermetically Sealed • Fast Response • Low Capacitance • UL Certified, File #E245199 **Specifications:** • Insulation Resistance: 10mΩ minimum • Inter-Electrode Capacitance: 1.0pF maximum **Applications:** • I.C. Circuits • Telephone Circuits • Signal Lines • Electro-Static Charge Elimination • Protections against Switching Surges

DC Firing Voltage	Impulse Current (Maximum)	AC Discharge Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	Lumex Part No.
150	1kA	1A	67-2000-1-ND	1.76	1.47	1.18	67-2000-2-ND	486.38	GT-SMD181215012-TR
	2kA	2A	67-2001-1-ND	1.97	1.65	1.32	67-2001-2-ND	545.31	GT-SMD181215022-TR
350	1kA	1A	67-2006-1-ND	1.60	1.33	1.07	67-2006-2-ND	441.56	GT-SMD181235012-TR
400	1kA	1A	67-2008-1-ND	1.55	1.29	1.03	67-2008-2-ND	427.45	GT-SMD181240012-TR
	2kA	2A	67-2009-1-ND	2.08	1.73	1.39	67-2009-2-ND	574.36	GT-SMD181240022-TR

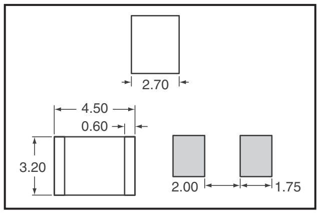

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

EPCOS

SMD Varistors

Fig. 1

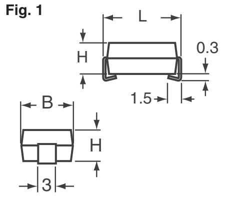

Fig. 2

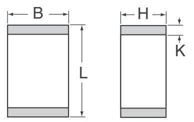

Specifications:
CU Series: • Monolithic varistor element, encapsulated • Encapsulation: Thermoplast, flame retardant to UL 94V-0 • Termination: Tinned copper alloy • Operating Temperature Range: -40°C ~ 85°C • Storage Temperature Range: -40°C ~ 125°C • Electric Strength: ≥2.5kVAC$_{RMS}$ • Insulation Resistance: ≥1.0GΩ • Response Time: <10ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s
CT/CN Series: • Multilayer Technology • Termination: Nickel barrier (CT Series) and Silver palladium (CN Series) • No plastic or epoxy encapsulation assures better than UL 94V-0 flammability rating • Operating Temperature Range: -55°C ~ 85°C • Storage Temperature Range: -55°C ~ 125°C • Response Time: <0.5ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s
Automotive Series: • Multilayer Technology • Termination: Silver palladium • No plastic or epoxy encapsulation assures better than UL 94V-0 flammability rating • Operating Temperature Range: -55°C ~ 125°C • Storage Temperature Range: -55°C ~ 150°C • Response Time: <0.5ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s
Telecom Series: • Multilayer Technology • Termination: Silver palladium • No plastic or epoxy encapsulation assures better than UL 94V-0 flammability rating • Operating Temperature Range: -40°C ~ 85°C • Storage Temperature Range: -40°C ~ 125°C • Response Time: <0.5ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s

Features:
CU Series: • Electrical equivalents to leaded types S05/S07 up to 460 VAC$_{RMS}$ • Good Solderability • Approvals: UL (all types) and CSA (≥K130)
CT/CN Series: • Good Solderability • Suitable for ESD protection • Bidirectional clamping
Automotive Series: • High energy absorption, particularly in case of load dump • Stable protection level, low leakage current • High resistance to cyclic temperature stress • Wide operating temperature range • Low inductance (suitable for ESD protection) • Bidirectional clamping
Telecom Series: • Suitable for handling surge voltages of up to 2kV • Suitable for handling the surge current of the 10/700µs pulse to ITU-T and IEC 61000-4-5 • Matched to line conditions with or without superimposed ringing voltage • Good Solderability • Suitable for ESD protection

Max. Allowance Voltage (V) AC	DC	Varistor Voltage @ 1mA (V)	Tol. %	Max. Clamping Voltage V	A	imax 8/20 µs A	Dimensions (mm) L	B	H	K	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epcos Part No.
Fig. 1 — Monolithic CU Series																		
60	85	100	±10	165	5.0	400	8.0	6.3	3.2	—	495-2607-1-ND	1.05	.98	.75	495-2607-2-ND	1,000	420.00	CU3225K60G2
150	200	240	±10	395	5.0	400	8.0	6.3	3.2	—	495-1463-1-ND	1.05	.98	.75	495-1463-2-ND	1,000	420.00	CU3225K150G2K1
250	320	390	±10	650	5.0	400	8.0	6.3	4.5	—	495-2606-1-ND	1.05	.98	.75	495-2606-2-ND	1,000	420.00	CU3225K250G2
275	350	430	±10	710	5.0	400	8.0	6.3	4.5	—	495-1464-1-ND	1.05	.98	.75	495-1464-2-ND	1,000	420.00	CU3225K275G2K1
300	385	470	±10	775	5.0	400	8.0	6.3	4.5	—	495-1465-1-ND	1.05	.98	.75	495-1465-2-ND	1,000	420.00	CU3225K300G2K1
150	200	240	±10	395	10	1200	10.2	8.0	3.2	—	495-1466-1-ND	1.40	1.30	1.00	495-1466-2-ND	1,000	560.00	CU4032K150G2K1
275	350	430	±10	710	10	1200	10.2	8.0	4.5	—	495-1467-1-ND	1.40	1.30	1.00	495-1467-2-ND	1,000	560.00	CU4032K275G2K1
300	385	470	±10	775	10	1200	10.2	8.0	4.5	—	495-1468-1-ND	1.40	1.30	1.00	495-1468-2-ND	1,000	560.00	CU4032K300G2K1
Fig. 2 — Multilayer CN/CT Series																		
4	5.5	8	±20	24	1.0	25	1.0	.50	.6	.1~.3	495-3425-1-ND	.26	.20	.13	495-3425-2-ND	10,000	70.00/M	CT0402M4G
11	14	16.5	—	35	1.0	10	1.0	.50	.6	.1~.3	495-3424-1-ND	.26	.20	.13	495-3424-2-ND	10,000	70.00/M	CT0402S11AG
14	16	23.5	±15	46	1.0	10	1.0	.50	.6	.1~.3	495-2592-1-ND	.18	.17	.13	495-2592-2-ND	10,000	67.00/M	CT0402L14G
14	16	23	—	66	1.0	2	1.0	.50	.6	.1~.3	495-3426-1-ND	.26	.20	.13	495-3426-2-ND	10,000	70.00/M	CT0402S14AHSG
4	5.5	8	±20	19	1.0	30	1.6	.80	.9	.1~.4	495-2595-1-ND	.25	.23	.18	495-2595-2-ND	4,000	98.00/M	CT0603M4G
14	18	22	±10	40	1.0	30	1.6	.80	.9	.1~.4	495-2593-1-ND	.25	.23	.18	495-2593-2-ND	4,000	98.00/M	CT0603K14G
25	31	39	±10	67	1.0	30	1.6	.80	.9	.1~.4	495-2594-1-ND	.25	.23	.18	495-2594-2-ND	4,000	98.00/M	CT0603K25G
4	5.5	8	±20	19	1.0	100	2.0	1.25	1.4	.13~.75	495-2599-1-ND	.42	.39	.30	495-2599-2-ND	3,000	168.00/M	CT0805M4G
11	14	18	±10	35	1.0	120	2.0	1.25	1.4	.13~.75	495-2596-1-ND	.42	.39	.30	495-2596-2-ND	3,000	168.00/M	CT0805K11G
25	31	39	±10	67	1.0	80	2.0	1.25	1.4	.13~.75	495-2597-1-ND	.42	.39	.30	495-2597-2-ND	3,000	168.00/M	CT0805K25G
30	38	47	±10	77	1.0	80	2.0	1.25	1.4	.13~.75	495-2598-1-ND	.42	.39	.30	495-2598-2-ND	3,000	168.00/M	CT0805K30G
17	22	27	±10	44	1.0	200	3.2	1.60	1.7	.25~.75	495-2601-1-ND	.46	.43	.33	495-2601-2-ND	3,000	182.00/M	CT1206K17G
25	31	39	±10	65	1.0	200	3.2	1.60	1.7	.25~.75	495-2591-1-ND	.53	.49	.38	495-2591-2-ND	2,000	210.00/M	CN1206K25G
30	38	47	±10	77	1.0	200	3.2	1.60	1.7	.25~.75	495-2602-1-ND	.46	.43	.33	495-2602-2-ND	2,000	182.00/M	CT1206K30G
40	56	68	±10	110	1.0	100	3.2	1.60	1.7	.25~.75	495-2603-1-ND	.46	.43	.33	495-2603-2-ND	2,000	182.00/M	CT1206K40G
30	38	47	±10	77	2.5	300	3.2	2.50	1.7	.25~.75	495-2396-1-ND	.56	.48	.40	495-2396-2-ND	2,000	224.00/M	CN1210K30G
30	38	47	±10	77	2.5	300	3.2	2.50	1.7	.25~.75	495-2604-1-ND	.56	.52	.40	495-2604-2-ND	2,000	224.00/M	CT1210K30G
30	38	47	±10	77	10	1200	5.7	5.00	2.5	.25~1.0	495-2397-1-ND	1.93	1.65	1.38	495-2397-2-ND	1,000	770.00	CN2220K30G
Fig. 2 — Multilayer Automotive Series																		
14	16	22	+23/-0	42	1.0	120	2.0	1.25	1.4	.13~.75	495-2600-1-ND	.42	.39	.30	495-2600-2-ND	3,000	168.00/M	CT0805S14BAUTOG
14	16	22	+23/-0	40	1.0	200	3.2	1.60	1.7	.25~.75	495-1459-1-ND	.53	.49	.38	495-1459-2-ND	3,000	210.00/M	CN1206S14BAUTOG
14	16	22	+23/-0	40	2.5	400	3.2	2.50	1.7	.25~.75	495-2605-1-ND	.56	.52	.40	495-2605-2-ND	3,000	224.00/M	CT1210S14BAUTOG
14	16	22	+23/-0	40	2.5	400	3.2	2.50	1.7	.25~.75	495-1460-1-ND	.61	.57	.44	495-1460-2-ND	3,000	245.00/M	CN1210S14BAUTOG
14	16	22	+23/-0	40	10	1200	5.7	5.00	2.5	.25~1.0	495-1461-1-ND	2.28	2.12	1.63	495-1461-2-ND	1,500	910.00/M	CN2220S14BAUTOG
Fig. 2 — Multilayer Telecom Series																		
95	125	150	+20/-0	270	45	250	4.5	3.20	2.5	.25~1.0	495-1462-1-ND	1.40	1.30	1.00	—	—	—	CN1812S95AG2

Block Varistors - HighE Series

Specifications: • Disk-shaped varistor element, potted in plastic housing • Housing and potting flame-retardant to UL 94 V-0 • Screw terminals M4 • Operating Temperature Range: -40°C ~ 85°C • Storage Temperature Range: -40°C ~ 110°C • Electric Strength: ≥2.5 kV$_{RMS}$ • Insulation Resistance: ≥10MΩ • Response Time: <25ns **Features:** • Heavy-duty varistors (surge current capability up to 100kA) • Wide product range • Approvals: UL, CSA (≥K130), SEV

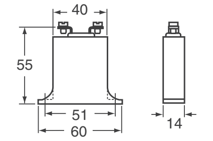

Max. Allowance Voltage (V) AC	DC	Varistor Voltage @ 1mA ±10% (V)	Max. Clamping Voltage V	A	imax 8/20 µs A	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	Epcos Part No.
130	170	205	340	200	25000	495-1452-ND	24.06	206.25	1718.75	9796.88	9143.75/M	B32K130
150	200	240	395	200	25000	495-1453-ND	24.06	206.25	1718.75	9796.88	9143.75/M	B32K150
275	350	430	710	200	25000	495-2393-ND	15.13	120.31	979.69	8593.75	—	B32K275
550	745	910	1500	200	25000	495-2394-ND	15.13	120.31	979.69	8593.75	—	B32K550
130	170	205	340	300	40000	495-1454-ND	18.06	154.80	1290.00	7353.00	6862.80/M	B40K130
150	200	240	395	300	40000	495-1455-ND	27.30	234.00	1950.00	11115.00	10374.00/M	B40K150
275	350	430	710	300	40000	495-2395-ND	17.16	136.50	1111.50	9750.00	—	B40K275

Strap Varistors – HighE Series

Specifications:
• Coating: Epoxy resin, flame-retardant to UL 94V-0 • Bolt-holed strap terminals for screw fixing or soldering • Bent strap terminals • Operating Temperature Range: -25°C ~ 85°C • Storage Temperature Range: -25°C ~ 110°C • Electric Strength: ≥2.5 kVAC$_{RMS}$ • Insulation Resistance: ≥10MΩ • Response Time: <25ns

Features:
• Maximum load capacity with minimum size • Approvals: UL, CSA

Fig. 1

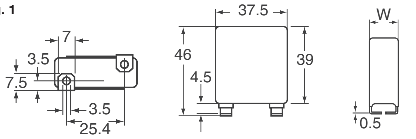

Fig. 2

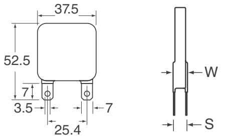

Max. Allowable Voltage (V) AC	DC	Varistor Voltage @ 1mA ±10% (V)	Max. Clamping Voltage V	A	imax. 8/20 µs A	Dimensions (mm) W	S	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	Epcos Part No.
Fig. 1														
150	200	240	395	300	40,000	8.3	—	495-1456-ND	13.90	119.10	992.50	5657.25	5280.10/M	LS40K150QP
275	350	430	710	300	40,000	9.4	—	495-1457-ND◆	11.90	102.00	850.00	4845.00	4522.00/M	LS40K275QP
320	420	510	840	300	40,000	9.9	—	495-1458-ND◆	11.90	102.00	850.00	4845.00	4522.00/M	LS40K320QP
150	200	240	395	300	45,000	8.3	—	495-3439-ND◆	9.38	65.63	562.50	5062.50	4687.50/M	LS41K150QP
275	350	430	710	300	45,000	9.4	—	495-3440-ND◆	9.38	65.63	562.50	5062.50	4687.50/M	LS41K275QP
320	420	510	840	300	45,000	9.9	—	495-3441-ND◆	9.38	65.63	562.50	5062.50	4687.50/M	LS41K320QP
420	560	680	1120	300	45,000	10.9	—	495-3442-ND◆	12.50	87.50	750.00	6750.00	6250.00/M	LS41K420QP
275	350	430	710	300	65,000	9.4	—	495-3443-ND◆	13.50	94.50	810.00	7290.00	6750.00/M	LS42K275QP
320	420	510	840	300	65,000	9.9	—	495-3445-ND◆	13.50	94.50	810.00	7290.00	6750.00/M	LS42K320QP
420	560	680	1120	300	65,000	10.9	—	495-3447-ND◆	18.00	126.00	1080.00	9720.00	9000.00/M	LS42K420QP
Fig. 2 — RoHS Compliant														
275	350	430	710	300	65,000	9.4	5.8	495-3444-ND	13.50	94.50	810.00	7290.00	6750.00/M	LS42K275QPK2
320	420	510	840	300	65,000	9.9	6.3	495-3446-ND	13.50	94.50	810.00	7290.00	6750.00/M	LS42K320QPK2
420	560	680	1120	300	65,000	10.9	7.3	495-3448-ND	18.00	126.00	1080.00	9720.00	9000.00/M	LS42K420QPK2

◆ ***RoHS Compliant***

EPCOS

CeraDiodes
Standard, High Speed and Arrays

Due to the ongoing miniaturization, electronic devices are becoming more and more sensitive to ESD. Therefore, reliable protection components become absolutely necessary to safeguard valuable electronics against the impact of ESD. CeraDiodes are ceramic semiconductors optimized specifically for high performance in ESD applications. They have a non-linear voltage/current characteristic for effectively suppressing extremely fast voltage transients and offer superior parametric stability over the complete operating range of -40°C ~ 85°C. CeraDiodes are bi-directional devices. A single CeraDiode connected from signal/data line to ground routes positive and negative ESD transitions safely to the ground plane. This technique eliminates the need to route ESD charge into the power plane, possibly damaging nearby integrated circuits **Features:** Bi-directional ESD protection to IEC 61000-4-2 level 4 • No de-rating of maximum ratings up to 85°C • Extremely fast response time of < .5ns **Applications:** • EDP products (desktop and notebook computers) • Peripherals (printers, memory) • Portable handheld products • Mobile communication • Consumer products (flat TV's, set-top boxes, MP3 players, digital cameras, etc).

Size Code	Dimensions (mm) L	B	H	K
0402	1.0	0.5	0.5	0.2
0405	1.3	1.0	0.7	—
0508	2.0	1.2	0.9	0.2
0603	1.6	0.8	0.8	0.25
0612	3.2	1.6	0.9	0.35
1003	2.5	0.8	0.8	0.43
1012	3.2	2.5	1.2	0.45

Standard / High Speed

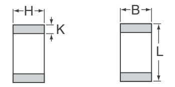

Arrays

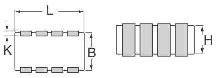

Size Code	Max. DC Working Voltage (V)	Peak Pulse Current @ 8/20µs (A)	Minimum Breakdown Voltage	Maximum Clamping Voltage	Typical Capacitance (pF)	Leakage Current (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Epcos Part No.
Standard Speed														
0402	5.6	10	6.4	24	180	1	495-3418-1-ND‡	.18	1.40	8.75	495-3418-2-ND	10,000	49.00/M	B72590D50A60
0402	15	10	20	46	47	1	495-3417-1-ND‡	.18	1.40	8.75	495-3417-2-ND	10,000	49.00/M	B72590D150A60
0603	5.6	30	6.4	19	470	1	495-3414-1-ND‡	.21	1.60	10.00	495-3414-2-ND	4,000	66.00/M	B72500D50A60
0603	9.0	30	10	30	220	1	495-3415-1-ND‡	.21	1.60	10.00	495-3415-2-ND	4,000	66.00/M	B72500D90A60
0603	15	30	22	42	160	1	495-3412-1-ND‡	.21	1.60	10.00	495-3412-2-ND	4,000	66.00/M	B72500D150A60
0603	22	30	25	50	56	1	495-3413-1-ND‡	.18	1.40	8.75	495-3413-2-ND	4,000	58.00/M	B72500D200A60V7
1003	12	20	16	46	82	1	495-3416-1-ND‡	.21	1.60	10.00	495-3416-2-ND	4,000	66.00/M	B72570D120A60
High Speed														
0402	5.6	—	150	—	0.6	1	495-3684-1-ND‡ ***NEW!***	.21	1.60	10.00	495-3684-2-ND ***NEW!***	10,000	56.00/M	B72590D0050H160
0402	15	—	23	66	10	1	495-3685-1-ND‡ ***NEW!***	.21	1.60	10.00	495-3685-2-ND ***NEW!***	10,000	56.00/M	B72590D0150H060
0402	16	—	65	290	2	1	495-3419-1-ND‡	.18	1.40	8.75	495-3419-2-ND	10,000	49.00/M	B72590D160H60
0603	16	—	65	290	3	1	495-3420-1-ND‡	.21	1.60	10.00	495-3420-2-ND	4,000	66.00/M	B72500D160H60
0603	16	—	65	290	3	1	495-3686-1-ND ***NEW!***	.21	1.60	10.00	495-3686-2-ND ***NEW!***	4,000	66.00/M	B72500D0160H060
0603	30	—	50	120	10	1	495-3421-1-ND‡	.21	1.60	10.00	495-3421-2-ND	4,000	66.00/M	B72500D300H60
1003	16	—	38	146	3	1	495-3687-1-ND‡ ***NEW!***	.21	1.60	10.00	495-3687-2-ND ***NEW!***	4,000	66.00/M	B72570D0160H060
Arrays														
0405	22	10	25	50	75	—	495-3430-1-ND†	.47	3.60	22.50	495-3430-2-ND	4,000	149.00/M	B72762A2170S160
0508	16	—	24	59	10	.01	495-3427-1-ND	.79	6.00	37.50	495-3427-2-ND	4,000	248.00/M	B72714A8140S160
0508	16	—	22	66	10	1	495-3688-1-ND‡ ***NEW!***	.79	6.00	37.50	495-3688-2-ND ***NEW!***	4,000	248.00/M	B72714D0160H060
0508	22	10	24	60	33	1	495-3682-1-ND‡ ***NEW!***	.53	4.00	25.00	495-3682-2-ND ***NEW!***	4,000	165.00/M	B72714D0200A060
0612	16	—	150	350	3	3	495-3429-1-ND	.79	6.00	37.50	495-3429-2-ND	3,000	225.00/M	B72724A8151V62
0612	16	—	80	350	3	1	495-3422-1-ND‡	.79	6.00	37.50	495-3422-2-ND	3,000	225.00/M	B72724D160H62
0612	22	30	25	50	75	—	495-3428-1-ND	.79	6.00	37.50	495-3428-2-ND	3,000	225.00/M	B72724A2170S162
0612	22	30	25	50	56	1	495-3683-1-ND‡ ***NEW!***	.53	4.00	25.00	495-3683-2-ND ***NEW!***	3,000	150.00/M	B72724D0200A062
1012	5.6	20	52	195	3.5	1	495-3423-1-ND‡§	.68	5.20	32.50	495-3423-2-ND	2,000	195.00/M	B72735D50H62

† 4 Terminals § 6 Terminals

‡ 495-3681-ND ***NEW!*** CeraDiode Kit contains the items denoted (18 parts)...................... **$33.75**

ETFV Series
Thermofuse Varistors

The Epcos Thermofuse varistors of the ETFV series combines a disk varistor with a thermofuse. The thermofuse is connected to a terminal lead of the disk varistor by a solder bridge. If a sustained supply-frequency over-voltage occurs, the varistor absorbs the over-voltage and heats up in the process. If the melting point of the thermofuse solder is exceeded, the latter opens and the disk varistor is permanently disconnected from the power line. This disconnection assures that the varistor is not overloaded and short-circuited. **Applications:** UPS, White Goods, Power Suppliers, AC Panel Protection modules, Dimmers **Specifications:** UL1449 and UL60691

Fig. 1

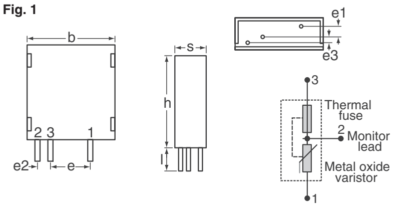

Fig. 2

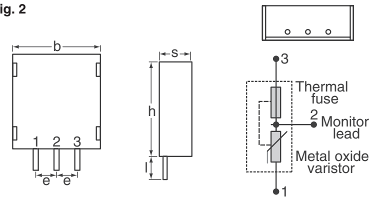

Max. Allowable Voltage (V) AC	DC	Varistor Voltage@ 1mA ±10% (V)	Max. Clamping Voltage V	A	iMax. 8/20 µs A	Dimensions (mm) b	h	l	s	e	e1	e2	e3	Digi-Key Part No.	Pricing 1	10	100	1,000	Epcos Part No.
Fig. 1																			
130	170	205	340	50	6,000	19.2	22	5	11	7.5	5	5	1	495-3635-ND	1.14	9.75	81.25	463.13	ETFV14K130E2
150	200	240	395	50	6,000	19.2	22	5	11	7.5	5	5	1	495-3636-ND	1.14	9.75	81.25	463.13	ETFV14K150E2
175	225	270	455	50	6,000	19.2	22	5	11	7.5	5	5	1	495-3637-ND	1.14	9.75	81.25	463.13	ETFV14K175E2
275	350	430	710	50	6,000	19.2	22	5	11	7.5	5	5	1	495-3638-ND	1.14	9.75	81.25	463.13	ETFV14K275E2
320	420	510	840	50	6,000	19.2	22	5	11	7.5	5	5	1	495-3639-ND	1.14	9.75	81.25	463.13	ETFV14K320E2
420	560	680	1120	50	6,000	19.2	22	5	11	7.5	5	5	1	495-3640-ND	1.19	10.23	85.25	485.93	ETFV14K420E2
Fig. 2																			
130	170	205	340	100	10,000	22	25.7	5	10	5	—	—	—	495-3641-ND	1.82	15.60	130.00	741.00	ETFV20K130E2
150	200	240	395	100	10,000	22	25.7	5	10	5	—	—	—	495-3642-ND	1.82	15.60	130.00	741.00	ETFV20K150E2
175	225	270	455	100	10,000	22	25.7	5	10	5	—	—	—	495-3643-ND	1.82	15.60	130.00	741.00	ETFV20K175E2
275	350	430	710	100	10,000	22	25.7	5	10	5	—	—	—	495-3644-ND	1.82	15.60	130.00	741.00	ETFV20K275E2
320	420	510	840	100	10,000	22	25.7	5	10	5	—	—	—	495-3645-ND	1.82	15.60	130.00	741.00	ETFV20K320E2
420	560	680	1120	100	10,000	22	25.7	5	10	5	—	—	—	495-3646-ND	1.91	16.38	136.50	778.05	ETFV20K420E2
130	170	205	340	150	20,000	30.2	35.2	5	11	6.35	—	—	—	495-3647-ND	2.50	21.45	178.75	1018.88	ETFV25K130E4
150	200	240	395	150	20,000	30.2	35.2	5	11	6.35	—	—	—	495-3648-ND	2.50	21.45	178.75	1018.88	ETFV25K150E4
175	225	270	455	150	20,000	30.2	35.2	5	11	6.35	—	—	—	495-3649-ND	2.50	21.45	178.75	1018.88	ETFV25K175E4
275	350	430	710	150	20,000	30.2	35.2	5	11	6.35	—	—	—	495-3650-ND	2.50	21.45	178.75	1018.88	ETFV25K275E4
320	420	510	840	150	20,000	30.2	35.2	5	11	6.35	—	—	—	495-3651-ND	2.50	21.45	178.75	1018.88	ETFV25K320E4
420	560	680	1120	150	20,000	30.2	35.2	5	11	6.35	—	—	—	495-3652-ND	2.63	22.53	187.75	1070.18	ETFV25K420E4

Surge Arresters

Gas-filled surge arresters offer optimum protection from: atmospheric fields and discharges, inductive coupling from power supply lines, direct contact between communication and power lines, and electrostatic discharges. Epcos surge arresters limit over-voltages quickly and safely to uncritical levels and reliably discharge the resulting dangerous currents **Specifications:** • Insulation Resistance at 100V is 10GΩ; Part No. A81-C90X, EC75X, EC90X, and T83-A90X Resistance at 50V 10GΩ • Operation and Storage Temperature: -40°C ~ 90°C • Climatic Category (IEC 60068-1) 40/90/21

Fig. 1

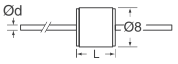

Fig. 2

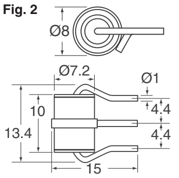

Fig. 3

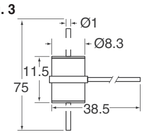

Fig.	DC Spark-over Voltage (V)	Toler-ance (%)	Nominal Impulse Discharge Current (Wave 8/20 µs)	Nominal Alternating Discharge Current	Cap. @ (1 MHz)	Dim. L (mm)	Dim. ød (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Epcos Part No.
1	75	±20	5kA	5A	1pF	6.05	0.8	495-1475-ND	1.41	11.75	94.00	411.25	EC75X
	90	±20	5kA	5A	1pF	5.0	0.8	495-2631-ND	1.92	16.00	128.00	560.00	M51-C90X
	90	±20	5kA	5A	1pF	6.05	0.8	495-1476-ND	1.41	11.75	94.00	411.25	EC90X
	90	±20	20kA	20A	1.5pF	6.05	1	495-1472-ND	1.92	16.00	128.00	560.00	A81-C90X
	230	±15	5kA	5A	1pF	6.05	0.8	495-1473-ND	1.41	11.75	94.00	411.25	EC230X
	230	±20	5kA	5A	1pF	5.0	0.8	495-2632-ND	1.92	16.00	128.00	560.00	M51-A230X
	230	±20	10kA	10A	1.5pF	6.05	1	495-1878-ND	1.68	14.00	112.00	490.00	N81-A230X
	230	±20	20kA	20A	1.5pF	6.05	1	495-1471-ND	1.92	16.00	128.00	560.00	A81-A230X
	270	-10/+25	5kA	5A	1.5pF	7.9	1	495-1477-ND	3.51	29.25	234.00	1023.75	L71-A270X
	350	±15	5kA	5A	1pF	6.05	0.8	495-1474-ND	1.41	11.75	94.00	411.25	EC350X
	350	±20	5kA	5A	1pF	5.0	0.8	495-2633-ND	1.92	16.00	128.00	560.00	M51-A350X
	350	±20	10kA	10A	1.5pF	6.05	1	495-1879-ND	1.68	14.00	112.00	490.00	N81-A350X
	470	-10/+25	5kA	5A	1.5pF	7.9	1	495-1478-ND	3.51	29.25	234.00	1023.75	L71-A470X
	800	-10/+25	5kA	5A	1.5pF	7.9	1	495-1479-ND	2.91	24.25	194.00	848.75	L71-A800X
	1000	±15	10kA	10A	1pF	7.9	1	495-1469-ND	1.89	15.75	126.00	551.25	A71-H10X
	2500	±20	2.5kA	2.5A	1pF	7.9	1	495-1470-ND	1.89	15.75	126.00	551.25	A71-H25X
2	90	±20	10kA	10A	1.5pF	—	—	495-1482-ND	2.46	20.50	164.00	717.50	T83-A90X
	230	±20	10kA	10A	1.5pF	—	—	495-2634-ND	2.46	20.50	164.00	717.50	T83-A230X
	230	±20	20kA	10A	1.5pF	—	—	495-1480-ND	2.85	23.75	190.00	831.25	T23-A230X
	350	±20	10kA	10A	1.5pF	—	—	495-2635-ND	2.46	20.50	164.00	717.50	T83-A350X
	350	-14/+53	20kA	10A	1.5pF	—	—	495-2636-ND	3.03	25.25	202.00	883.75	T23-C350XS
3	350	±25	20kA	20A	1.5pF	—	—	495-1481-ND	4.32	36.00	288.00	1260.00	T61-C350X

Leaded Varistors

Fig. 1

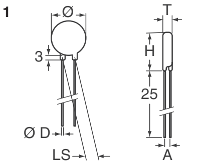

Fig. 2

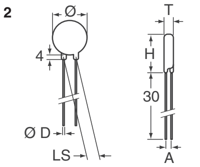

Specifications:
• Coating: Epoxy resin, flame retardant to UL 94 V-0 • Terminals: Tinned copper wire • Operating Temperature Range: -40°C ~ 85°C • Storage Temperature Range: -40°C ~ 125°C • Electric Strength: ≥2.5 kV_{RMS} • Insulation Resistance: ≥10MΩ • Response Time: <25ns

Features:
StandardD Series: • Wide operating voltage range • No derating up to 85°C ambient temperature • Approvals: UL, CSA (All Types ≥ K115), SEV, VDE, CECC
AdvanceD Series: • High-energy AdvanceD series E2 • High surge current ratings up to 10kA • High energy ratings up to 325J • Wide operating voltage range • Approvals: UL, CSA, VDE, CECC
Automotive Series: • High energy absorption, particularly in case of load dump • Jump-start strength • Stable protection level, minimum leakage current • High resistance to cyclic temperature stress • Types for T_A = 125°C

Maximum Allowable Voltage (V) AC	DC	Varistor Voltage @ 1mA ±10% (V)	Maximum Clamping Voltage V	A	iMax. 8/20 µs A	Dimensions (mm) LS ±1	A ±1	Ø Max.	T Max.	H Max.	ØD ±.05	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	Epcos Part No.
StandardD Series - Fig. 1																		
11	14	18	36	1.0	100	5.0	1.2	7.0	3.3	8.5	.6	495-3762-ND◆ ***NEW!***	.17	1.48	12.30	70.11	65.44/M	S05K11
14	18	22	43	1.0	100	5.0	1.3	7.0	3.4	8.5	.6	495-3763-ND◆ ***NEW!***	.17	1.48	12.30	70.11	65.44/M	S05K14
17	22	27	53	1.0	100	5.0	1.4	7.0	3.5	8.5	.6	495-3764-ND◆ ***NEW!***	.17	1.48	12.30	70.11	65.44/M	S05K17
25	31	39	77	1.0	100	5.0	1.3	7.0	3.6	8.5	.6	495-3767-ND◆ ***NEW!***	.17	1.48	12.30	70.11	65.44/M	S05K25
30	38	47	93	1.0	100	5.0	1.5	7.0	3.6	8.5	.6	495-3769-ND◆ ***NEW!***	.17	1.48	12.30	70.11	65.44/M	S05K30
35	45	56	110	1.0	100	5.0	1.6	7.0	3.7	8.5	.6	495-3771-ND◆ ***NEW!***	.17	1.48	12.30	70.11	65.44/M	S05K35
40	56	68	135	1.0	100	5.0	1.8	7.0	3.9	8.5	.6	495-3772-ND◆ ***NEW!***	.17	1.48	12.30	70.11	65.44/M	S05K40
50	65	82	135	5.0	400	5.0	1.2	7.0	3.3	8.5	.6	495-3773-ND◆ ***NEW!***	.14	1.22	10.20	58.14	54.27/M	S05K50
75	100	120	200	5.0	400	5.0	1.3	7.0	3.4	8.5	.6	495-3775-ND◆ ***NEW!***	.17	1.44	12.00	68.40	63.84/M	S05K75
95	125	150	250	5.0	400	5.0	1.3	7.0	3.4	8.5	.6	495-3776-ND◆ ***NEW!***	.14	1.22	10.20	58.14	54.27/M	S05K95
130	170	205	340	5.0	400	5.0	1.6	7.0	3.6	8.5	.6	495-3777-ND◆ ***NEW!***	.14	1.22	10.20	58.14	54.27/M	S05K130
140	180	220	360	5.0	400	5.0	1.7	7.0	3.7	8.5	.6	495-3778-ND◆ ***NEW!***	.14	1.22	10.20	58.14	54.27/M	S05K140
150	200	240	395	5.0	400	5.0	1.8	7.0	3.8	8.5	.6	495-3780-ND◆ ***NEW!***	.14	1.22	10.20	58.14	54.27/M	S05K150
250	320	390	650	5.0	400	5.0	1.8	7.0	4.2	8.5	.6	495-3784-ND◆ ***NEW!***	.14	1.22	10.20	58.14	54.27/M	S05K250
300	385	470	775	5.0	400	5.0	2.1	7.0	4.5	8.5	.6	495-3787-ND◆ ***NEW!***	.14	1.22	10.20	58.14	54.27/M	S05K300
11	14	18	36	2.5	250	5.0	1.2	9.0	3.4	11.0	.6	495-1402-ND◆	.16	1.40	11.70	66.69	62.25/M	S07K11
14	18	22	43	2.5	250	5.0	1.3	9.0	3.5	11.0	.6	495-1403-ND◆	.08	.72	6.00	34.20	31.92/M	S07K14
17	22	27	53	2.5	250	5.0	1.4	9.0	3.6	11.0	.6	495-3765-ND◆ ***NEW!***	.08	.72	6.00	34.20	31.92/M	S07K17
20	26	33	65	2.5	250	5.0	1.2	9.0	3.6	11.0	.6	495-2398-ND◆	.08	.72	6.00	34.20	31.92/M	S07K20
25	31	39	77	2.5	250	5.0	1.3	9.0	3.7	11.0	.6	495-1404-ND◆	.16	1.40	11.70	66.69	62.25/M	S07K25
30	38	47	93	2.5	250	5.0	1.5	9.0	3.7	11.0	.6	495-1405-ND◆	.09	.75	6.25	35.63	33.25/M	S07K30
50	65	82	135	10	1200	5.0	1.2	9.0	3.3	11.0	.6	495-3774-ND◆ ***NEW!***	.12	1.01	8.40	47.88	44.69/M	S07K50
130	170	205	340	10	1200	5.0	1.6	9.0	3.6	11.0	.6	495-1406-ND	.12	1.01	8.40	47.88	44.69/M	S07K130
150	200	240	395	10	1200	5.0	1.8	9.0	3.8	11.0	.6	495-1407-ND	.12	1.01	8.40	47.88	44.69/M	S07K150
250	320	390	650	10	1200	5.0	1.8	9.0	4.2	11.0	.6	495-3785-ND◆ ***NEW!***	.12	1.01	8.40	47.88	44.69/M	S07K250
275	350	430	710	10	1200	5.0	2.0	9.0	4.4	11.0	.6	495-1408-ND◆	.12	1.01	8.40	47.88	44.69/M	S07K275
300	385	470	775	10	1200	5.0	2.1	9.0	4.5	11.0	.6	495-2399-ND◆	.12	1.01	8.40	47.88	44.69/M	S07K300
385	505	620	1025	10	1200	5.0	2.5	9.0	5.2	11.5	.6	495-3790-ND◆ ***NEW!***	.12	1.01	8.40	47.88	44.69/M	S07K385
25	31	39	77	5.0	500	7.5	1.6	12.0	4.2	14.5	.8	495-3768-ND◆ ***NEW!***	.23	1.98	16.50	94.05	87.78/M	S10K25
30	38	47	93	5.0	500	7.5	1.7	12.0	4.4	14.5	.8	495-3770-ND◆ ***NEW!***	.23	1.98	16.50	94.05	87.78/M	S10K30
35	45	56	110	5.0	500	7.5	1.8	12.0	4.4	14.5	.8	495-2400-ND◆	.23	1.98	16.50	94.05	87.78/M	S10K35
140	180	220	360	25	2500	7.5	1.9	12.0	4.3	14.5	.8	495-3779-ND◆ ***NEW!***	.22	1.87	15.60	88.92	83.00/M	S10K140
150	200	240	395	25	2500	7.5	2.0	12.0	4.4	14.5	.8	495-3781-ND◆ ***NEW!***	.22	1.87	15.60	88.92	83.00/M	S10K150
175	225	270	455	25	2500	7.5	2.2	12.0	4.6	14.5	.8	495-3782-ND◆ ***NEW!***	.22	1.87	15.60	88.92	83.00/M	S10K175
275	350	430	710	25	2500	7.5	2.2	12.0	5.0	14.5	.8	495-3786-ND◆ ***NEW!***	.22	1.87	15.60	88.92	83.00/M	S10K275
300	385	470	775	25	2500	7.5	2.3	12.0	5.1	14.5	.8	495-3788-ND◆ ***NEW!***	.22	1.87	15.60	88.92	83.00/M	S10K300
420	560	680	1120	25	2500	7.5	2.9	12.0	6.1	15.0	.8	495-3791-ND◆ ***NEW!***	.25	2.16	18.00	102.60	95.76/M	S10K420
17	22	27	53	10	1000	7.5	1.7	15.5	4.4	18.5	.8	495-3766-ND◆ ***NEW!***	.34	2.92	24.30	138.51	129.28/M	S14K17
30	38	47	93	10	1000	7.5	1.8	15.5	4.4	18.5	.8	495-2401-ND◆	.34	2.92	24.30	138.51	129.28/M	S14K30
35	45	56	110	10	1000	7.5	2.0	15.5	4.5	18.5	.8	495-2402-ND◆	.34	2.92	24.30	138.51	129.28/M	S14K35
75	100	120	200	50	4500	7.5	1.5	15.5	4.2	18.5	.8	495-2403-ND◆	.32	2.77	23.10	131.67	122.90/M	S14K75
130	170	205	340	50	4500	7.5	1.9	15.5	4.2	18.5	.8	495-1409-ND◆	.32	2.77	23.10	131.67	122.90/M	S14K130
140	180	220	360	50	4500	7.5	2.0	15.5	4.3	18.5	.8	495-1410-ND	.32	2.77	23.10	131.67	122.90/M	S14K140
150	200	240	395	50	4500	7.5	2.1	15.5	4.4	18.5	.8	495-1411-ND	.32	2.77	23.10	131.67	122.90/M	S14K150
275	350	430	710	50	4500	7.5	2.2	15.5	5.0	18.5	.8	495-1412-ND◆	.32	2.77	23.10	131.67	122.90/M	S14K275
300	385	470	775	50	4500	7.5	2.3	15.5	5.2	18.5	.8	495-3789-ND◆ ***NEW!***	.34	2.92	24.30	138.51	129.28/M	S14K300
320	420	510	845	50	4500	7.5	2.4	15.5	5.4	19.0	.8	495-1413-ND◆	.32	2.77	23.10	131.67	122.90/M	S14K320
30	38	47	93	20	2000	10.0	2.0	21.5	4.9	25.5	1.0	495-2405-ND◆	.58	5.01	41.75	237.98	222.11/M	S20K30
130	170	205	340	100	8000	10.0	2.0	21.5	4.7	25.5	1.0	495-1414-ND◆	.52	4.44	37.00	210.90	196.84/M	S20K130
140	180	220	360	100	8000	10.0	2.1	21.5	4.8	25.5	1.0	495-1415-ND	.47	3.99	33.25	189.53	176.89/M	S20K140
150	200	240	395	100	8000	10.0	2.2	21.5	4.9	25.5	1.0	495-1416-ND	.52	4.44	37.00	210.90	196.84/M	S20K150
175	225	270	455	100	8000	10.0	2.3	21.5	5.0	25.5	1.0	495-3783-ND◆ ***NEW!***	.47	4.05	33.75	192.39	179.57/M	S20K175
250	320	390	650	100	8000	10.0	2.2	21.5	5.3	25.5	1.0	495-2404-ND◆	.27	2.34	19.50	111.15	103.74/M	S20K250
275	350	430	710	100	8000	10.0	2.3	21.5	5.4	25.5	1.0	495-1417-ND	.52	4.44	37.00	210.90	196.84/M	S20K275
300	385	470	775	100	8000	10.0	2.4	21.5	5.6	25.5	1.0	495-2406-ND◆	.52	4.44	37.00	210.90	196.84/M	S20K300
320	420	510	845	100	8000	10.0	2.6	21.5	5.8	25.5	1.0	495-1418-ND◆	.52	4.44	37.00	210.90	196.84/M	S20K320
420	560	680	1120	100	8000	10.0	3.1	21.5	6.5	26.0	1.0	495-2407-ND◆	.57	4.92	41.03	233.84	218.26/M	S20K420
AdvanceD Series - Fig. 1																		
130	170	205	340	5.0	800	5.0	1.6	7.0	3.9	8.5	.6	495-1419-ND◆	.08	.66	5.50	31.35	29.26/M	S05K130E2
150	200	240	395	5.0	800	5.0	1.8	7.0	4.1	8.5	.6	495-1421-ND	.08	.69	5.75	32.78	30.59/M	S05K150E2

◆ ***RoHS Compliant***

(Continued)

EPCOS

Leaded Varistors *(Cont.)*

Maximum Allowable Voltage (V) AC	Maximum Allowable Voltage (V) DC	Varistor Voltage @ 1mA ±10% (V)	Maximum Clamping Voltage V	Maximum Clamping Voltage A	iMax. 8/20 µs A	Dimensions (mm) LS ±1	A ±1	Ø Max.	T Max.	H Max.	ØD ±.05	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	Epcos Part No.
300	385	470	775	5.0	800	5.0	2.1	7.0	4.7	8.5	.6	495-1422-ND	.08	.72	6.00	34.20	31.92/M	S05K300E2
150	200	240	395	10	1750	5.0	1.8	9.0	4.1	11.0	.6	495-1424-ND	.12	1.01	8.40	47.88	44.69/M	S07K150E2
250	320	390	650	10	1750	5.0	1.9	9.0	4.5	11.0	.6	495-1425-ND◆	.12	1.01	8.40	47.88	44.69/M	S07K250E2
275	350	430	710	10	1750	5.0	2.0	9.0	4.6	11.0	.6	495-1426-ND	.12	1.01	8.40	47.88	44.69/M	S07K275E2
300	385	470	775	10	1750	5.0	2.1	9.0	4.7	11.0	.6	495-1427-ND◆	.12	1.01	8.40	47.88	44.69/M	S07K300E2
320	420	510	845	10	1750	5.0	2.3	9.0	4.6	11.0	.6	495-1428-ND	.12	1.01	8.40	47.88	44.69/M	S07K320E2
140	180	220	360	25	3500	7.5	1.9	12.0	4.6	14.5	.8	495-1429-ND	.22	1.87	15.60	88.92	83.00/M	S10K140E2
150	200	240	395	25	3500	7.5	2.0	12.0	4.7	14.5	.8	495-1430-ND	.22	1.87	15.60	88.92	83.00/M	S10K150E2
175	225	270	455	25	3500	7.5	2.2	12.0	4.9	14.5	.8	495-1431-ND◆	.22	1.87	15.60	88.92	83.00/M	S10K175E2
250	320	390	650	25	3500	7.5	2.1	12.0	5.2	14.5	.8	495-1432-ND	.22	1.87	15.60	88.92	83.00/M	S10K250E2
275	350	430	710	25	3500	7.5	2.2	12.0	5.4	14.5	.8	495-1433-ND	.22	1.87	15.60	88.92	83.00/M	S10K275E2
300	385	470	775	25	3500	7.5	2.3	12.0	5.6	14.5	.8	495-1434-ND	.22	1.87	15.60	88.92	83.00/M	S10K300E2
420	560	680	1120	25	3500	7.5	3.5	12.0	7.4	15.0	.8	495-1435-ND	.25	2.16	18.00	102.60	95.76/M	S10K420E2
130	170	205	340	50	6000	7.5	1.9	15.5	4.6	18.5	.8	495-1436-ND	.35	3.02	25.20	143.64	134.07/M	S14K130E2
140	180	220	360	50	6000	7.5	2.0	15.5	4.7	18.5	.8	495-1437-ND	.35	3.02	25.20	143.64	134.07/M	S14K140E2
150	200	240	395	50	6000	7.5	2.1	15.5	4.8	18.5	.8	495-1438-ND	.35	3.02	25.20	143.64	134.07/M	S14K150E2
175	225	270	455	50	6000	7.5	2.2	15.5	4.9	18.5	.8	495-1439-ND◆	.35	3.02	25.20	143.64	134.07/M	S14K175E2
250	320	390	650	50	6000	7.5	2.1	15.5	5.2	18.5	.8	495-1440-ND	.35	3.02	25.20	143.64	134.07/M	S14K250E2
275	350	430	710	50	6000	7.5	2.2	15.5	5.4	18.5	.8	495-1441-ND◆	.35	3.02	25.20	143.64	134.07/M	S14K275E2
300	385	470	775	50	6000	7.5	2.3	15.5	5.6	18.5	.8	495-1442-ND◆	.35	3.02	25.20	143.64	134.07/M	S14K300E2
130	170	205	340	100	10000	10.0	2.0	21.5	5.0	25.5	1.0	495-1443-ND◆	.47	4.02	33.50	190.95	178.22/M	S20K130E2
140	180	220	360	100	10000	10.0	2.1	21.5	5.1	25.5	1.0	495-1444-ND	.64	5.52	46.00	262.20	244.72/M	S20K140E2
150	200	240	395	100	10000	10.0	2.2	21.5	5.2	25.5	1.0	495-1445-ND	.46	3.96	33.00	188.10	175.56/M	S20K150E2
175	225	270	455	100	10000	10.0	2.3	21.5	5.3	25.5	1.0	495-1446-ND	.48	4.11	34.25	195.23	182.21/M	S20K175E2
250	320	390	650	100	10000	10.0	2.4	21.5	5.7	25.5	1.0	495-1447-ND◆	.51	4.35	36.25	206.63	192.85/M	S20K250E2
275	350	430	710	100	10000	10.0	2.6	21.5	5.8	25.5	1.0	495-1448-ND◆	.53	4.50	37.50	213.75	199.50/M	S20K275E2
300	385	470	775	100	10000	10.0	2.8	21.5	6.1	25.5	1.0	495-1449-ND◆	.54	4.62	38.50	219.45	204.82/M	S20K300E2
Automotive Series - Fig. 2																		
14	16	22	43	10	1000	7.5	1.5	17.0	5.0	20.5	.8	495-1450-ND◆	.34	2.92	24.30	138.51	129.28/M	S14K14AUTO
14	16	22	43	20	2000	10.0	1.6	23.0	5.4	27.5	1.0	495-1451-ND	.56	4.80	40.00	228.00	212.80/M	S20K14AUTO

◆ ***RoHS Compliant***

TDK

Multilayer Chip Varistors for Surge and Static Protection

AVR and AVRL Series

Digi-Reel® RoHS COMPLIANT

Features: • No polarity due to symmetrical current-voltage characteristics • Excellent electrostatic absorption capability • Can replace a Zener diode and capacitor combination

Specifications: • Operating Temperature: -40°C ~ 125°C

Size Code	Dimensions – mm L	W	T	B (Min.)	a	b	c
0402	1.0	0.5	0.5	0.1	0.3 ~ 0.5	0.35 ~ 0.45	0.4 ~ 0.6
0603	1.6	0.8	0.8	0.2	0.6 ~ 0.8	0.6 ~ 0.8	0.6 ~ 0.8
0805	2.0	1.25	1.0	0.2	0.9 ~ 1.2	0.7 ~ 0.9	0.9 ~ 1.2

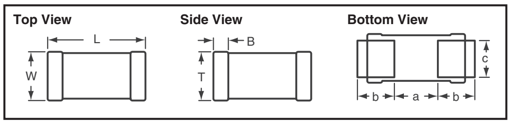

AVR Series

Size Code	Varistor Voltage (VDC@ 1mA)	Maximum Continuous Voltage (VDC)	Clamping Voltage (8/20µs)	Maximum Peak Current (A)	Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	TDK Part No.
0402	8	5.5	14 (1A)	25	650	445-2532-1-ND	.12	1.11	8.50	445-2532-2-ND	10,000	44.00/M	AVR-M1005C080MTAAB
			15 (1A)	3	100	445-2533-1-ND	.12	1.11	8.50	445-2533-2-ND	10,000	44.00/M	AVR-M1005C080MTABB
			19 (1A)	1	33	445-2559-1-ND	.12	1.11	8.50	445-2559-2-ND	10,000	44.00/M	AVR-M1005C080MTACB
	12	7.5	20 (1A)	10	130	445-2534-1-ND	.12	1.11	8.50	445-2534-2-ND	10,000	44.00/M	AVR-M1005C120MTAAB
	27	15	50 (1A)	4	40	445-2535-1-ND	.12	1.11	8.50	445-2535-2-ND	10,000	44.00/M	AVR-M1005C270MTAAB
				1	15	445-2536-1-ND	.12	1.11	8.50	—	—	—	AVR-M1005C270MTABB
0603	8	5.5	15 (2A)	30	650	445-2537-1-ND	.18	1.66	12.75	445-2537-2-ND	4,000	71.00/M	AVR-M1608C080MTAAB
	12	7.5	20 (2A)	50	1050	445-2538-1-ND	.18	1.66	12.75	445-2538-2-ND	4,000	71.00/M	AVR-M1608C120MT6AB
				15	400	445-2539-1-ND	.18	1.66	12.75	445-2539-2-ND	4,000	71.00/M	AVR-M1608C120MT2AB
	18	11	30 (2A)	30	600	445-2540-1-ND	.18	1.66	12.75	445-2540-2-ND	4,000	71.00/M	AVR-M1608C180MT6AB
	22	16	34 (2A)	30	560	445-2541-1-ND	.18	1.66	12.75	445-2541-2-ND	4,000	71.00/M	AVR-M1608C220KT6AB
			37 (2A)	10	210	445-2542-1-ND	.18	1.66	12.75	445-2542-2-ND	4,000	71.00/M	AVR-M1608C220KT2AB
	27	19	42 (2A)	48	430	445-2543-1-ND	.18	1.66	12.75	445-2543-2-ND	4,000	71.00/M	AVR-M1608C270KT6AB
				20	160	445-2544-1-ND	.18	1.66	12.75	445-2544-2-ND	4,000	71.00/M	AVR-M1608C270KT2AB
		17	52 (2A)	2	30	445-2545-1-ND	.18	1.66	12.75	445-2545-2-ND	4,000	71.00/M	AVR-M1608C270MTAAB
					15	445-2546-1-ND	.18	1.66	12.75	445-2546-2-ND	4,000	71.00/M	AVR-M1608C270MTABB
0805	12	7.5	20 (5A)	60	1000	445-2547-1-ND	.33	3.04	23.38	445-2547-2-ND	2,000	131.00/M	AVR-M2012C120MT6AB
	22	16	38 (5A)	100	800	445-2548-1-ND	.33	3.04	23.38	445-2548-2-ND	2,000	131.00/M	AVR-M2012C220KT6AB
	39	28	62 (5A)	100	430	445-2549-1-ND	.33	3.04	23.38	445-2549-2-ND	2,000	131.00/M	AVR-M2012C390KT6AB

AVRL Series

Size Code	Typical Varistor Voltage (VDC @ 1mA)	Maximum Continuous Voltage (VDC)	Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	TDK Part No.
0402	90	10	1.1	445-2560-1-ND	.18	1.66	12.75	445-2560-2-ND	10,000	66.00/M	AVRL101A1R1NTA
	39	10	1.1	445-2561-1-ND	.18	1.66	12.75	445-2561-2-ND	10,000	66.00/M	AVRL101A1R1NTB
	27	10	3.3	445-2562-1-ND	.18	1.66	12.75	445-2562-2-ND	10,000	66.00/M	AVRL101A3R3FTA
			6.8	445-2563-1-ND	.18	1.66	12.75	—	—	—	AVRL101A6R8GTA
0603	90	10	1.1	445-2564-1-ND	.24	2.21	17.01	445-2564-2-ND	4,000	95.00/M	AVRL161A1R1NTA
	39	10	1.1	445-2565-1-ND	.24	2.21	17.01	445-2565-2-ND	4,000	95.00/M	AVRL161A1R1NTB
	27	10	3.3	445-2566-1-ND	.24	2.21	17.01	445-2566-2-ND	4,000	95.00/M	AVRL161A3R3FTA
			6.8	445-2567-1-ND	.24	2.21	17.01	—	—	—	AVRL161A6R8GTA

VISHAY. BC COMPONENTS

Leaded Varistors

The varistors consist of a disc of low-B ceramic material with two tinned solid copper leads. They are coated with a layer of ochre colored epoxy, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "IEC 60068-2-45".

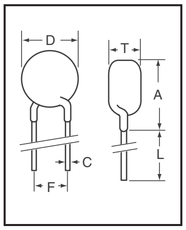

Size Code	Maximum Continuous Volt. AC (V)	Maximum Continuous Volt. DC (V)	Varistor Voltage @ 1mA (V)	Maximum Voltage Stated Current V (V)	Maximum Voltage Stated Current I. (A)	Dimensions – mm D Max.	A Max.	L Min.	T Max.	T Min.	C	F	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
C	140	180	220	370	25.0	13.5	15.5	17.0	7.0	4.4	0.8 ±0.05	7.5 ±0.8	BC1428-ND	.46	.39	.33	2322 594 51416
	230	300	360	600	25.0	13.5	15.5	17.0	7.0	4.4	0.8 ±0.05	7.5 ±0.8	BC1431-ND	.46	.39	.33	2322 594 52316
D	140	180	220	370	50.0	17.0	19.0	16.0	7.0	4.4	0.8 ±0.05	7.5 ±0.8	BC1449-ND	.59	.51	.42	2322 595 51416
	320	420	510	850	50.0	17.0	19.0	16.0	7.0	4.4	0.8 ±0.05	7.5 ±0.8	BC1456-ND	.59	.51	.42	2322 595 53216

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Gas Discharge Tubes

Dimensions: Inch (mm)

Fig. 1

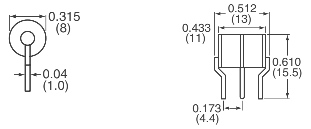

Fig. 2

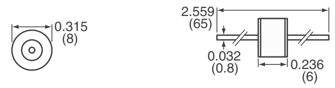

Fig. 3

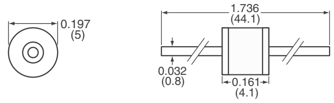

Fig. 4

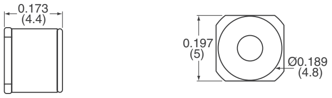

Fig. 5

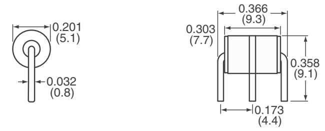

Fig. 6

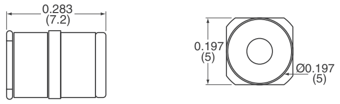

Gas Discharge Tubes (GDTs) are used to protect personnel and sensitive equipment from hazardous transient voltages. Bourns GDTs are used in primary and secondary applications and can withstand multiple applications of high surge current energy in excess of 25KA. Bourns offers standard 8mm GDTs and a 5mm mini series GDT in two and three electrode versions featuring long service life and low capacitance and insertion loss. An optional, proprietary Switch-Grade Fail-Short is offered on the three electrode versions to provide superior protections from thermal runaway.

Fig.	Number of Poles	Fail-Short	DC Sparkover ±20% @ 100V/s	Impulse Sparkover		Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Bourns Part No.
				100V/µs	1000V/µs		1	10	100		Qty.	Pricing	
1	3	—	230V	450V	650V	2026-23-C2LF-ND◆	3.71	3.22	2.48	—	—	—	2026-23-C2LF
		—	250V	475V	700V	2026-25-C2LF-ND◆	3.71	3.22	2.48	—	—	—	2026-25-C2LF
		—	350V	625V	875V	2026-35-C2LF-ND◆	3.71	3.22	2.48	—	—	—	2026-35-C2LF
		—	600V	925V	1250V	2026-60-C2LF-ND◆	3.71	3.22	2.48	—	—	—	2026-60-C2LF
		X	230V	450V	650V	2026-23-C2F-ND	4.76	4.13	3.18	—	—	—	2026-23-C2F
		X	250V	475V	700V	2026-25-C2F-ND	4.76	4.13	3.18	—	—	—	2026-25-C2F
		X	350V	625V	875V	2026-35-C2F-ND	4.76	4.13	3.18	—	—	—	2026-35-C2F
2	2	—	150V†	350V	575V	2027-15-BLF-ND◆	1.84	1.60	1.23	—	—	—	2027-15-BLF
		—	230V†	450V	675V	2027-23-BLF-ND◆	1.84	1.60	1.23	—	—	—	2027-23-BLF
		—	350V†	600V	875V	2027-35-BLF-ND◆	1.84	1.60	1.23	—	—	—	2027-35-BLF
3	2	—	90V	300V	550V	2035-09-BLF-ND◆	1.76	1.53	1.18	—	—	—	2035-09-BLF
		—	150V†	350V	550V	2035-15-BLF-ND◆	1.76	1.53	1.18	—	—	—	2035-15-BLF
		—	230V†	450V	600V	2035-23-BLF-ND◆	1.76	1.53	1.18	—	—	—	2035-23-BLF
		—	350V†	600V	750V	2035-35-B-ND	1.76	1.53	1.18	—	—	—	2035-35-B
4	2	—	90V	350V	525V	2035-09-SM-RPLFCT-ND◆	1.29	1.09	.60	2035-09-SM-RPLFTR-ND◆	1,500	495.00/M	2035-09-SM-RPLF
		—	150V†	400V	550V	2035-15-SM-RPLFCT-ND◆	1.29	1.09	.60	2035-15-SM-RPLFTR-ND◆	1,500	495.00/M	2035-15-SM-RPLF
		—	230V†	450V	600V	2035-23-SM-RPLFCT-ND◆	1.29	1.09	.60	2035-23-SM-RPLFTR-ND◆	1,500	495.00/M	2035-23-SM-RPLF
		—	350V†	600V	750V	2035-35-SM-RPLFCT-ND◆	1.29	1.09	.60	2035-35-SM-RPLFTR-ND◆	1,500	495.00/M	2035-35-SM-RPLF
		—	600V†	950V	1100V	2035-60-SM-RPLFCT-ND◆	1.29	1.09	.60	2035-60-SM-RPLFTR-ND◆	1,500	495.00/M	2035-60-SM-RPLF
		—	800V†	—	1250V	2039-80-SM-RPLFCT-ND◆‡	1.29	1.09	.60	2039-80-SM-RPLFTR-ND◆‡	1,500	495.00/M	2039-80-SM-RPLF
		—	1100V†	—	1500V	2039-110-SM-RPLFCT-ND◆‡	1.37	1.16	.63	2039-110-SM-RPLFTR-ND◆‡	1,500	495.00/M	2039-110-SM-RPLF
5	3	—	90V	250V	550V	2036-09-B2LF-ND◆	3.71	3.22	2.48	—	—	—	2036-09-B2LF
		—	150V	350V	500V	2036-15-B2LF-ND◆	3.71	3.22	2.48	—	—	—	2036-15-B2LF
		—	230V	450V	600V	2036-23-B2LF-ND◆	3.71	3.22	2.48	—	—	—	2036-23-B2LF
		—	350V	600V	750V	2036-35-B2LF-ND◆	3.71	3.22	2.48	—	—	—	2036-35-B2LF
		—	600V	850V	1100V	2036-60-B2LF-ND◆	3.71	3.22	2.48	—	—	—	2036-60-B2LF
		X	230V	450V	600V	2036-23-B2F-ND	4.76	4.13	3.18	—	—	—	2036-23-B2F
		X	350V	600V	750V	2036-35-B2F-ND	4.76	4.13	3.18	—	—	—	2036-35-B2F
6	3	—	90V	250V	550V	2036-09-SM-RPLFCT-ND◆	2.28	1.52	1.20	2036-09-SM-RPLFTR-ND◆	1,000	1001.00	2036-09-SM-RPLF
		—	150V	350V	500V	2036-15-SM-RPLFCT-ND◆	2.28	1.52	1.20	2036-15-SM-RPLFTR-ND◆	1,000	1001.00	2036-15-SM-RPLF
		—	230V	450V	600V	2036-23-SM-RPLFCT-ND◆	2.28	1.52	1.20	2036-23-SM-RPLFTR-ND◆	1,000	1001.00	2036-23-SM-RPLF
		—	350V	600V	750V	2036-35-SM-RPLFCT-ND◆	2.28	1.52	1.20	2036-35-SM-RPLFTR-ND◆	1,000	1001.00	2036-35-SM-RPLF
		—	600V	850V	1100V	2036-60-SM-RPLFCT-ND◆	2.28	1.52	1.20	2036-60-SM-RPLFTR-ND◆	1,000	1001.00	2036-60-SM-RPLF

◆ ***RoHS Compliant*** ‡ Not UL Recognized † ±15%

5-Pin Multi-Stage Protector and Gas Discharge Tube Protector

2410 Series – 5-Pin Multi-Stage Protector (MSP®): This is the latest generation telecommunications protector for high performance and long life in overvoltage protection of copper pair voice-band and high-speed data circuits. Bourns MSP combines the advantages of gas tube and solid state protection while integrating three advanced technologies: a proprietary high-efficiency gas discharge tube, precision matched metal oxide varistors and a patented Switch-Grade Fail-Short mechanism. The Switch-Grade Fail-Short mechanism ensures superior thermal protection with fast acting, highly reliable response to thermal overload conditions. This combined technology provides lower capacitance, higher reliability and longer life than competitive hybrid technologies.

FEATURES: • Solid Brass, Gold-Plated Pins • Storage Temperature: -55°C ~ 85°C • Operating Temperature: -55°C ~ 85°C

2420 Series – 5-Pin Gas Discharge Tube (GDT) Protector: The 2420 overvoltage protection modules utilize Bourns' proprietary high-efficiency gas discharge tube with our patented Switch-Grade Fail-Short mechanism to provide robust and reliable surge and thermal overload protection at a very competitive price. This series is based on Bourns' three-terminal common chamber GDT. This design provides greatly improved and balanced turn-on characteristics for overvoltage protection. The GDT is UL approved for use without a back-up device. Air back-up devices can become contaminated; the circuitry of the 2420 eliminates this possibility. Our unique Switch-Grade Fail-Short device provides more reliable thermal overload protection compared to commonly used solder pellet or insulation burn-through designs.

FEATURES: • Solid Brass, Gold-Plated Pins • Storage Temperature: -55°C ~ 85°C • Operating Temperature: -55°C ~ 85°C

Dimensions: Inch (mm)

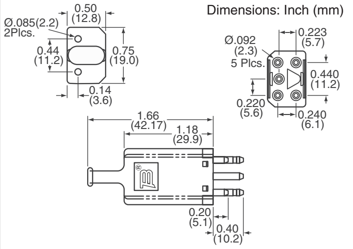

DC Breakdown	AC Breakdown @ 60Hz	Impulse Breakdown		Digi-Key Part No.	Price Each			Bourns Part No.
		100V/µs	1000V/µs		1	10	100	
300-400V	300-400V	600V	650V	2410-31-G-MSP-ND	6.38	4.72	3.91	2410-31-G-MSP
300-400V	300-400V	625V	875V	2420-31-G-ND	5.95	4.36	3.55	2420-31-G

155HS and 455HS Digi.Guard II – MSP® Heavy Duty Station Protectors

Dimensions: Inch (mm)

Fig. 1

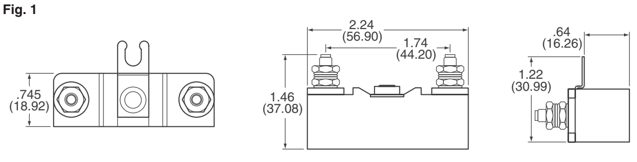

Fig. 2

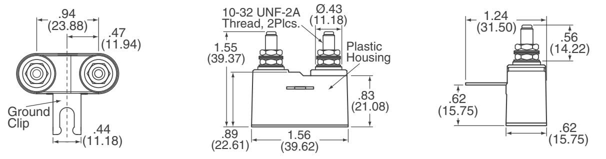

Bourns' Models 155HS and 455HS Digi.Guard II Multi-Stage Protectors are new generation telecommunications Station Protectors designed to be the best all around choice for protecting copper pair voice-band and high speed data circuits. Combining the strengths of Gas Tube and solid-state protectors, these models integrate three advanced protection technologies: a proprietary sixth-generation Gas Tube, a precision matched metal oxide varistor and a patented Switch-Grade Failsafe mechanism. Operating Temperature: -55°C ~ 85°C

Fig.	Model	DC Breakdown	AC Breakdown @ 60Hz	Impulse Breakdown		Digi-Key Part No.	Price Each			Bourns Part No.
				100V/µs	1000V/µs		1	10	100	
1	455HS-MSP	300-400V	300-400V	600V	650V	2377-45-HS-ND	9.91	7.23	6.20	2377-45-HS
2	155HS-MSP	300-400V	300-400V	600V	650V	2378-35-HS-ND	7.98	5.75	4.79	2378-35-HS

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

1800 Series – Signal and Dataline Protector

Dimensions in Inches (mm)

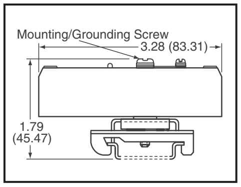

Bourns 1800 Series Signal and Dataline Protectors are designed to protect sensitive electronic circuits and components from damaging surge voltages and currents. Their extremely fast response and low clamping voltages make them particularly suitable for the protection of signal and data lines associated with computer, data communications, instrumentation, broadcasting and industrial controls. They may be used directly with EIA standard interfaces RS-232, RS-422, RS-423, RS-485 and with 20mA and 50mA instrumentation loops. These protectors are fast, rugged and capable of protecting against fast rising voltage transients, as well as the severe current surges associated with lightning discharges.

FEATURES: • Low peak clamping voltage even during severe current surges • Ability to repeatedly protect against surge currents in excess of 10,000 amperes • Convenient mounting and grounding to any flat surface or to Din-3 (TS-35) rail • Cable shields are passed through and may be either grounded or not grounded at the protector • Vibration-proof screw-type clamp terminals • Flame-resistant epoxy-filled housing

Note: See data sheets for specifications

1820-28-A3-ND **$69.62**

1669 Series – Transient Protector

Dimensions in Inches (mm)

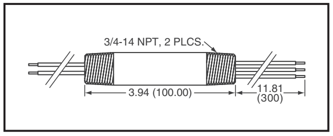

Used for full weather protection of field transmitters and instrumentation operating on 24-28V systems, the 1669 Series protects sensitive I/O circuitry from surges of any polarity or magnitude. Principal use is on 4-20mA control loops and can be used on grounded (+ or -) or ungrounded circuits. Able to survive and protect even from direct lightning strikes to the transmitter ground or field wiring. Automatic recovery after passage of the surge. Long life and high operational reliability.

FEATURES: • Fits single or dual conduit ports • Weatherproof • Long life, high operational reliability • Stainless steel construction

Note: See data sheets for specifications

1669-02-ND **$79.14**

Thru-Hole Surge Arresters — GDTs

Dimensions in Inches (mm)

Fig. 1

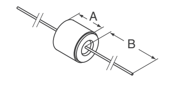

Fig. 2

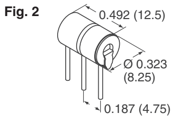

AC120 and AC240 Series: Specifically designed for protection on the AC line voltages for a high degree of surge protection in AC powered equipment. UL1449 recognized, CSA approved.

CG, CG2 and CG3 Series: Designed for a high degree of surge protection at a very low cost. Use the CG series for protection of test and communication equipment where low voltage limits and extremely low arc voltages are required. UL recognized, CSA approved (CG3 Series).

CG5 Series: Physically smaller sized than the CG series but are able to handle currents that far surpass other types of TVS protection.

PMT3 Series: Designed for telecommunication equipment in which simultaneous crowbar action of two signal lines is required. UL recognized.

Fig.	Description	Dimensions - Inches (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	100	Littelfuse Part No.
				AC120/240V					
1	120VAC Line Voltage Surge Arrester, Axial Lead	0.24 (6.07)	1.50 (38.10)	F2724-ND	2.93	2.70	2.25	2.03	AC120L
	240VAC Line Voltage Surge Arrester, Axial Lead	0.24 (6.07)	1.50 (38.10)	F2725-ND	2.93	2.70	2.25	2.03	AC240L
				CG/CG2 Series					
1	75VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	F2726-ND	2.93	2.70	2.25	2.03	CG75L
	90VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	F2727-ND	2.93	2.70	2.25	2.03	CG90L
	110VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	F2729-ND	2.93	2.70	2.25	2.03	CG110L
	145VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	F2733-ND	2.93	2.48	2.07	1.69	CG2145L
	230VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	F2735-ND	2.93	2.70	2.25	2.03	CG2230L
	350VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	F2737-ND	2.93	2.70	2.25	2.03	CG2350L
	470VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	F2739-ND	2.93	2.70	2.25	2.03	CG2470L
	600VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	F2741-ND	3.22	2.97	2.48	2.23	CG2600L
	800VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	F2743-ND	3.22	2.97	2.48	2.23	CG2800L
	1000VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	F2731-ND	3.22	2.97	2.48	2.23	CG21000L
				CG3 Series High Voltage					
1	1500VDC High Voltage Gas Discharge Tube, Axial Lead	0.30 (7.57)	0.96 (24.28)	F2760-ND	3.77	3.48	2.90	2.61	CG31.5L
	2500VDC High Voltage Gas Discharge Tube, Axial Lead	0.30 (7.57)	0.96 (24.28)	F2745-ND	3.77	3.48	2.90	2.61	CG32.5L
	5000VDC High Voltage Gas Discharge Tube, Axial Lead	0.40 (10.11)	0.96 (24.28)	F2759-ND	4.10	3.78	3.15	2.84	CG35.0L
	7500VDC High Voltage Gas Discharge Tube, Axial Lead	0.40 (10.11)	0.96 (24.28)	F2746-ND	4.10	3.78	3.15	2.84	CG37.5L
				CG5 Series High Performance					
1	90VDC High Performance Gas Discharge Tube, Axial Lead	0.20 (5.00)	0.96 (24.28)	F2747-ND	2.67	2.46	2.05	1.85	CG590L
	230VDC High Performance Gas Discharge Tube, Axial Lead	0.20 (5.00)	0.96 (24.28)	F2749-ND	2.67	2.26	1.89	1.54	CG5230L
	350VDC High Performance Gas Discharge Tube, Axial Lead	0.20 (5.00)	0.96 (24.28)	F2751-ND	2.67	2.46	2.05	1.85	CG5350L
				PMT3 Series 3 Electrode Telcom					
2	250VDC 3 Pin Gas Discharge Tube, PCB Mount	—	—	F2753-ND	5.95	5.49	4.58	4.12	PMT3 (310) 25010
	350VDC 3 Pin Gas Discharge Tube, PCB Mount	—	—	F2754-ND	5.95	5.49	4.58	4.12	PMT3 (310) 35010

SMT Surge Arresters — GDTs

Dimensions in Inches (mm)

The CG and PMT Series surge arresters have been specifically designed for use in SMT assembly applications for the protection of electrical and communication equipment. Low capacitance and UL recognized for surge protection in power supplies, communication and CATV equipment, data lines, ADSL equipment and more.

Fig. 1

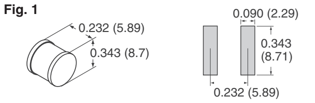

Fig. 2

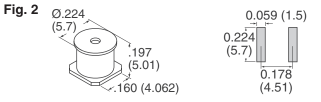

Fig. 3

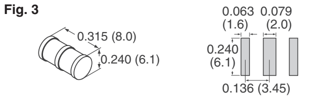

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Littelfuse Part No.
				CG Series					
1	75VDC Gas Discharge Tube, SMT	F2723CT-ND	3.49	3.21	2.70	F2723TR-ND	500	930.00	CG75MS
	90VDC Gas Discharge Tube, SMT	F2728CT-ND	3.49	3.21	2.70	F2728TR-ND	250	465.00	CG90MS
	110VDC Gas Discharge Tube, SMT	F2730CT-ND	3.38	3.11	2.61	F2730TR-ND	250	450.00	CG110MS
	145VDC Gas Discharge Tube, SMT	F2734CT-ND	3.38	3.11	2.61	F2734TR-ND	250	450.00	CG2145MS
	230VDC Gas Discharge Tube, SMT	F2736CT-ND	3.38	3.11	2.61	F2736TR-ND	250	450.00	CG2230MS
	350VDC Gas Discharge Tube, SMT	F2738CT-ND	3.38	3.11	2.61	F2738TR-ND	250	450.00	CG2350MS
	470VDC Gas Discharge Tube, SMT	F2740CT-ND	3.38	3.11	2.61	F2740TR-ND	250	450.00	CG2470MS
	600VDC Gas Discharge Tube, SMT	F2742CT-ND	3.38	3.11	2.61	F2742TR-ND	500	720.00	CG2600MS
	800VDC Gas Discharge Tube, SMT	F2744CT-ND	3.38	3.11	2.61	F2744TR-ND	500	900.00	CG2800MS
	1000VDC Gas Discharge Tube, SMT	F2732CT-ND	3.38	3.11	2.61	F2732TR-ND	250	450.00	CG21000MS
				CG5 Series High Performance					
2	90VDC Mini Gas Discharge Tube, SMT	F2748CT-ND	3.08	2.83	2.38	F2748TR-ND	1,000	1189.00	CG590MS
	230VDC Mini Gas Discharge Tube, SMT	F2750CT-ND	3.08	2.83	2.38	F2750TR-ND	1,000	1189.00	CG5230MS
	350VDC Mini Gas Discharge Tube, SMT	F2752CT-ND	3.08	2.83	2.38	F2752TR-ND	500	656.00	CG5350MS
				PMT6 Series 3-Terminal					
3	90VDC 3-Terminal Gas Discharge Tube, SMT	F2755CT-ND	3.84	3.43	2.36	F2755TR-ND	250	451.25	PMT6090MS

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

AVX Static Guard Multilayer Ceramic Varistor TVS Surface Mount

ESD Protection for CMOS and Bi-Polar Systems

AVX StaticGuard devices are manufactured with the same multilayer construction as the AVX TransGuard Transient Voltage Suppressors (TVS).

The low capacitance of the StaticGuard products makes them ideal choices for ESD protection on high speed data lines.

Also, the low leakage current feature makes these parts optimal for battery operated equipment.

	Dimensions - Inches (mm)		
Size	L	W	T
0603	.063 (1.60)	.031 (0.79)	.035 (0.89)
0805	.079 (2.01)	.049 (1.24)	.040 (1.02)
1206	.126 (3.20)	.063 (1.60)	.040 (1.02)

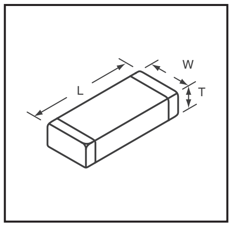

	Working Voltage		Clamping Voltage	Peak Current Rating	Typical Capacitance		Cut Tape Price Each				Tape & Reel Pricing	
Size	DC	AC	(V)	(A)	(pF)	Digi-Key Part No.	1	10	100	Digi-Key Part No.	1,000	AVX Part No.
0603	18.0	14.0	50	30	50	478-2503-1-ND	.35	.33	.25	478-2503-2-ND	135.00	VC06LC18X500DP
0805	18.0	14.0	50	30	80	478-2515-1-ND	.33	.31	.24	478-2515-2-ND	128.00	VC08LC18A500DP
1206	18.0	14.0	50	30	200	478-2530-1-ND	.37	.35	.26	478-2530-2-ND	143.00	VC12LC18A500DP

MultiGuard Multilayer Ceramic Varistor TVS Arrays

ESD Protection for CMOS and Bi-Polar Systems

AVX's TVS Arrays address many trends in today's electronic circuits: mandatory ESD protection, mandatory EMI control, signal integrity improvement, PCB downsizing, reduced component placement costs and protection from induced slow speed transient voltages and currents. MultiGuard products offer numerous advantages which include a faster turn-on time (<1nS), repetitive strike capability and space savings.

	Dimensions - Inches (mm)			
Size	L	W	T	P
0612	.063 (1.60)	.126 (3.20)	.048 (1.22)	.030 (0.76)

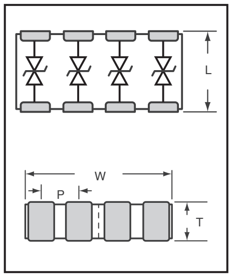

	Working Voltage		Break-down Voltage	Peak Current Rating	Typical Capacitance		Cut Tape Price Each				Tape & Reel Pricing	
Size	DC	AC	(V)	(A)	(pF)	Digi-Key Part No.	1	10	100	Digi-Key Part No.	1,000	AVX Part No.
0612	5.6	4.0	8.5 ± 20%	30	825	478-2541-1-ND	1.68	1.57	1.18	478-2541-2-ND	649.00	MG064S05A150DP
	9.0	6.4	12.7 ± 15%	30	550	478-2481-1-ND	1.68	1.57	1.18	478-2481-2-ND	649.00	MG064S09A200DP
	14.0	10.0	19.5 ± 12%	30	425	478-2542-1-ND	1.68	1.57	1.18	478-2542-2-ND	649.00	MG064S14A300DP
	18.0	14.0	25.5 ± 10%	15	120	478-2543-1-ND	1.68	1.57	1.18	478-2543-2-ND	649.00	MG064S18A400DP
	≤18.0	≤14.0	N/A	20	75	478-2480-1-ND	1.60	1.49	1.12	478-2480-2-ND	617.00	MG064L18X500DP

Medium Power Multilayer Varistor TVS Surface Mount

ESD and EMI Protection Devices for Standard, Telecom and Automotive Applications

AVX's TVS devices address many trends in today's electronic circuits: ESD protection, EMI control, signal integrity improvement, PCB downsizing, reduced component placement costs, and protection from induced slow speed transient voltages and currents.

Specifications:

- Storage Temperature: -55°C ~ 125°C • Operating Temperature: -55°C ~ 125°C

	Dimensions - Inches (mm)		
Size	L	l	t
1206	.126 (3.20)	.063 (1.60)	.067 (1.70)
1210	.126 (3.20)	.098 (2.50)	.067 (1.70)
1812	.177 (4.50)	.126 (3.20)	.067 (1.70)
2220	.224 (5.70)	.197 (5.00)	.067 (1.70)

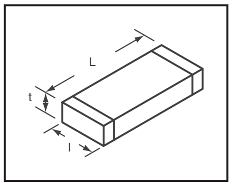

Standard Series

	Operating Voltage	Vnominal @ 1mA DC			Maximum Peak Current	Typical Capacitance @		Cut Tape Price Each				Tape & Reel Pricing	
Size	(Vdc)	Minimum	Nominal	Maximum	8 x 20µs (A)	1Khz/.5Vrms (pF)	Digi-Key Part No.	1	10	100	Digi-Key Part No.	2,000	AVX Part No.
1210	18	21.5	24	26.5	500	3000	478-2536-1-ND	.83	.77	.59	478-2536-2-ND	320.00/M	VJ13MC0180KBA
	26	29.7	33	36.3	300	1120	478-2537-1-ND	.83	.77	.59	478-2537-2-ND	320.00/M	VJ13MC0260KBA
	30	35	39	43	220	1020	478-2538-1-ND	.83	.77	.59	478-2538-2-ND	320.00/M	VJ13MC0300KBA
	30	35	39	43	280	1150	478-4757-1-ND◆ ***NEW!***	.92	.86	.65	478-4757-2-ND◆ ***NEW!***	356.00/M	VJ13PC0300KBA
	48	54.5	60.5	66.5	220	800	478-2539-1-ND	.83	.77	.59	478-2539-2-ND	320.00/M	VJ13MC0480KBA
	48	54.5	60.5	66.5	250	840	478-4758-1-ND◆ ***NEW!***	.92	.86	.65	478-4758-2-ND◆ ***NEW!***	356.00/M	VJ13PC0480KBA
	60	67	75	83	250	600	478-2540-1-ND◆	.83	.77	.59	478-2540-2-ND◆	320.00/M	VJ13MC0600KBA

Telecom Series

	Operating Voltage		Vclamp (8 x 20µs)		Max. Peak Current 8 x 20µs (A)	Typical Capacitance		Cut Tape Price Each				Tape and Reel		
Size	Vrms	Vdc	Vp	Ip	1 Surge	(pF)	Digi-Key Part No.	1	10	100	Digi-Key Part No.	Qty.	Pricing	AVX Part No.
1812	60	85	200	45	400	400	478-2531-1-ND◆	1.05	.98	.74	478-2531-2-ND◆	1,250	405.00/M	VC14MT0600KBA
	95	125	270	45	250	250	478-2532-1-ND◆	1.05	.98	.74	478-2532-2-ND◆	1,000	405.00	VC14MT0950KBA

Automotive Series

	Operating Voltage		Vnominal @ 1mA DC			Maximum Peak Current	Typical Capacitance		Cut Tape Price Each				Tape and Reel		
Size	Vrms	Vdc	Minimum	Nominal	Maximum	8 x 20µs (A)	(pF)	Digi-Key Part No.	1	10	100	Digi-Key Part No.	Qty.	Pricing	AVX Part No.
1206	14	16	22	24.5	27	200	900	478-4759-1-ND◆ ***NEW!***	.49	.46	.35	478-4759-2-ND◆ ***NEW!***	3,000	187.00/M	VC20MA0160KBA
1210	14	16	22	24.5	27	400	1800	478-4760-1-ND◆ ***NEW!***	.83	.77	.58	478-4760-2-ND◆ ***NEW!***	2,000	318.00/M	VC13MA0160KBA
1812	14	16	22	24.5	27	800	5000	478-4761-1-ND◆ ***NEW!***	1.12	1.04	.79	478-4761-2-ND◆ ***NEW!***	1,250	431.00/M	VC14MA0160KBA
2220	14	16	22	24.5	27	1200	11000	478-2533-1-ND◆	1.23	1.14	.86	478-2533-2-ND◆	1,250	473.00/M	VC15MA0160KBA
	14	16	22	24.5	27	1200	16000	478-2535-1-ND◆	1.40	1.30	.98	478-2535-2-ND◆	1,250	540.00/M	VC15PA0160KBA
	30	34	42.3	47	51.7	1200	4000	478-2534-1-ND◆	1.23	1.14	.86	478-2534-2-ND◆	1,250	473.00/M	VC15MA0340KBA

◆ ***RoHS Compliant***

TransFeed Multilayer Ceramic Varistor TVS

TVS Protection and EMI Attenuation in a Single Chip

AVX has combined the best electrical characteristics of its TransGuard TVS and its Feedthru Capacitors into a single chip for state-of-the-art overvoltage circuit protection and EMI reduction over a broad range of frequencies. This unique combination of multilayer ceramic construction in a feedthru configuration gives the circuit designer a single 0805 chip that responds to transient events faster than any TVS device on the market today and provides significant EMI attenuation when in the off-state. **Typical Applications:** • Fingerprint ID Circuit • Magnetic Field Circuit • LCD Dashboard Driver

	Dimensions - Inches (mm)			
Size	L	W	T	X
0805	.079 (2.01)	.049 (1.24)	.045 (1.14)	.040 (1.02)

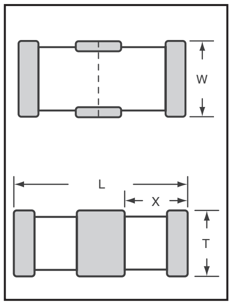

	Working Voltage			Peak Current	Typical Capacitance		Cut Tape Price Each				Tape & Reel Pricing	
Size	DC	AC	Break-down Voltage	Rating (A)	(pF)	Digi-Key Part No.	1	10	100	Digi-Key Part No.	1,000	AVX Part No.
0805	5.6	4.0	8.5 ± 20%	30	800	478-2544-1-ND	.48	.45	.34	478-2544-2-ND	185.00	V2F105A150Y2EDP
	5.6	4.0	8.5 ± 20%	120	2500	478-2482-1-ND	.72	.67	.51	478-2482-2-ND	277.00	V2F105C150Y1FDP
	14.0	10.0	18.5 ± 12%	30	300	478-2483-1-ND	.48	.45	.34	478-2483-2-ND	185.00	V2F114A300Y2EDP
	14.0	10.0	18.5 ± 12%	120	900	478-2484-1-ND	.72	.67	.51	478-2484-2-ND	277.00	V2F114C300Y1FDP
	18.0	13.0	25.5 ± 10%	30	200	478-2485-1-ND	.48	.45	.34	478-2485-2-ND	185.00	V2F118A400Y2EDP
	18.0	13.0	25.5 ± 10%	120	500	478-2486-1-ND	.72	.67	.51	478-2486-2-ND	277.00	V2F118C400Y1FDP

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TransGuard Multilayer Ceramic Varistor TVS Surface Mount

The AVX TransGuard Transient Voltage Suppressors (TVS) with unique high-energy multilayer construction represents state-of-the-art overvoltage circuit protection. Monolithic multilayer construction provides protection from voltage transients caused by ESD, lightning, NEMP, inductive switching etc.

Size	Length (L) Inches (mm)	Width (W) Inches (mm)	Maximum Thickness (T) Inches (mm)
0402	.040 (1.02)	.020 (0.51)	.024 (0.61)
0603	.063 (1.60)	.031 (0.79)	.035 (0.89)
0805	.079 (2.01)	.049 (1.24)	.040 (1.02)
1206	.126 (3.20)	.063 (1.60)	.040 (1.02)
1210	.126 (3.20)	.098 (2.49)	.067 (1.70)

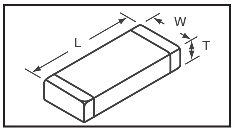

Size	Working Voltage DC	Working Voltage AC	Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pF)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape and Reel† Qty.	Tape and Reel† Pricing	AVX Part No.
0402	5.6	4.0	8.5 ±20%	20	175	478-2545-1-ND	.32	.30	.23	10,000	122.00/M	VC040205X150WP
	14.0	10.0	18.5 ±12%	20	100	478-2497-1-ND	.32	.30	.23	10,000	122.00/M	VC040214X300WP
0603	3.3	2.3	5.0 ±20%	30	1450	478-2498-1-ND	.39	.36	.27	1,000	149.00	VC060303A100DP
	5.6	4.0	8.5 ±20%	30	750	478-3652-1-ND	.47	.44	.33	1,000	181.00	VC060305A150DP
	14.0	10.0	18.5 ±12%	30	350	478-2499-1-ND	.39	.36	.27	1,000	149.00	VC060314A300DP
	18.0	13.0	25.5 ±10%	30	150	478-2500-1-ND	.39	.36	.27	1,000	149.00	VC060318A400DP
	26.0	18.0	34.5 ±10%	30	155	478-2501-1-ND	.39	.36	.27	1,000	149.00	VC060326A580DP
	30.0	21.0	41 ±10%	30	125	478-2502-1-ND	.39	.36	.27	1,000	149.00	VC060330A650DP
0805	3.3	2.3	5.0 ±20%	40	1400	478-2504-1-ND	.42	.39	.30	1,000	162.00	VC080503A100DP
	3.3	2.3	5.0 ±20%	120	5000	478-2505-1-ND	.61	.57	.43	1,000	236.00	VC080503C100DP
	5.6	4.0	8.5 ±20%	40	1100	478-2506-1-ND	.39	.36	.27	1,000	149.00	VC080505A150DP
	5.6	4.0	8.5 ±20%	120	3000	478-2507-1-ND	.46	.43	.32	1,000	176.00	VC080505C150DP
	9.0	6.4	12.7 ±15%	40	750	478-3655-1-ND	.48	.45	.34	1,000	186.00	VC080509A200DP
	12.0	8.5	16 ±15%	40	525	478-2508-1-ND	.39	.36	.27	1,000	149.00	VC080512A250DP
	14.0	10.0	18.5 ±12%	40	325	478-2509-1-ND	.39	.36	.27	1,000	149.00	VC080514A300DP
	14.0	10.0	18.5 ±12%	120	900	478-2510-1-ND	.46	.43	.32	1,000	176.00	VC080514C300DP
	18.0	13.0	25.5 ±10%	30	225	478-2511-1-ND	.39	.36	.27	1,000	149.00	VC080518A400DP
	18.0	13.0	25.5 ±10%	100	550	478-2512-1-ND	.46	.43	.32	1,000	176.00	VC080518C400DP
	26.0	18.0	34.5 ±10%	30	120	478-2513-1-ND	.40	.38	.29	1,000	155.00	VC080526A580DP
	26.0	18.0	34.5 ±10%	100	250	478-2514-1-ND	.46	.43	.32	1,000	176.00	VC080526C580DP
	30.0	21.0	41.0 ±10%	30	90	478-3654-1-ND	.48	.45	.34	1,000	186.00	VC080530A650DP
1206	5.6	4.0	8.5 ±20%	40	1200	478-2516-1-ND	.53	.49	.37	1,000	203.00	VC120605A150DP
	5.6	4.0	8.5 ±20%	150	3000	478-2517-1-ND	.70	.65	.49	1,000	270.00	VC120605D150DP
	14.0	10.0	18.5 ±12%	40	600	478-2518-1-ND	.53	.49	.37	1,000	203.00	VC120614A300DP
	14.0	10.0	18.5 ±12%	150	1050	478-2519-1-ND	.70	.65	.49	1,000	270.00	VC120614D300DP
	18.0	13.0	25.5 ±10%	30	350	478-2520-1-ND	.53	.49	.37	1,000	203.00	VC120618A400DP
	3.3	2.3	5.0 ±20%	150	4700	478-3653-1-ND	.81	.75	.57	1,000	311.00	VC120603D100DP
	18.0	13.0	25.5 ±10%	150	900	478-2521-1-ND	.70	.65	.49	1,000	270.00	VC120618D400DP
	26.0	18.0	34.5 ±10%	120	500	478-2522-1-ND	.70	.65	.49	1,000	270.00	VC120626D580DP
	30.0	21.0	41 ±10%	120	400	478-2523-1-ND	.70	.65	.49	1,000	270.00	VC120630D650DP
	48.0	34.0	62 ±10%	100	225	478-2524-1-ND	.70	.65	.49	1,000	270.00	VC120648D101DP
1210	18.0	13.0	25.5 ±10%	500	3100	478-2525-1-ND	1.09	1.01	.76	1,000	419.00	VC121018J390DP
	26.0	18.0	34.5 ±10%	300	2150	478-2526-1-ND	.95	.88	.67	1,000	365.00	VC121026H560DP
	30.0	21.0	39.0 ±10%	280	1975	478-2527-1-ND	.95	.88	.67	1,000	365.00	VC121030H620DP
	48.0	34.0	62 ±10%	250	500	478-2528-1-ND	.95	.88	.67	1,000	365.00	VC121048H101DP
	60.0	42.0	76 ±10%	250	400	478-2529-1-ND	.95	.88	.67	1,000	365.00	VC121060J121DP

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! Sub pF Varistors

For High Speed Digital and RF Applications

Dimensions in Inches (mm)

Features: • Act like back to back diodes with minimized off state EMC Capacitors • Offer small size and reliable performance vs other solutions

Applications: • HDMI ports • RF Decks • Integrated RF PA's • High Fan out digital circuits • High Node count bus devices • Low distortion analog circuits

Size	Working Voltage DC	Typical Break-down Voltage	Typical Leakage Current	Typical Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel† Pricing 10,000	AVX Part No.
0402	10	125V	<10 nA	0.8	478-4709-1-ND	.15	1.37	10.29	57.00/M	VCH4AG100R8MATWA

† For Tape and Reel part number, change 1-ND to 2-ND.

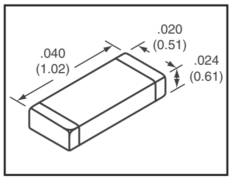

TransGuard Multilayer Ceramic Varistor TVS Axial Lead

The AVX TransGuard Transient Voltage Suppressors (TVS) with unique high-energy multilayer construction represents state-of-the-art overvoltage circuit protection.
Monolithic multilayer construction provides protection from voltage transients caused by ESD, lightning, NEMP, inductive switching etc.

Size	Maximum Length (L) Inches (mm)	Maximum Diameter (D) Inches (mm)
1000	.170 (4.32)	.100 (2.54)
2000	.190 (4.83)	.140 (3.56)

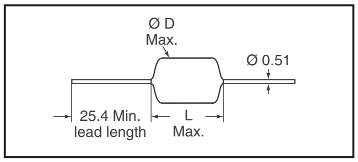

Size	Working Voltage DC	Working Voltage AC	Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Tape and Reel† Qty.	Tape and Reel† Pricing	AVX Part No.
1000	5.6	4.0	8.5 ±20%	40	1000	478-2487-1-ND	.36	.32	.29	1,000	216.00	VA100005A150DL
	5.6	4.0	8.5 ±20%	150	2800	478-2488-1-ND	.41	.36	.33	1,000	243.00	VA100005D150DL
	14.0	10.0	18.5 ±12%	40	325	478-2489-1-ND	.36	.32	.29	1,000	216.00	VA100014A300DL
	14.0	10.0	18.5 ±12%	150	1100	478-2490-1-ND	.41	.36	.33	1,000	243.00	VA100014D300DL
	18.0	13.0	25.5 ±10%	40	350	478-2491-1-ND	.36	.32	.29	1,000	216.00	VA100018A400DL
	18.0	13.0	25.5 ±10%	150	900	478-2492-1-ND	.41	.36	.33	1,000	243.00	VA100018D400DL
	26.0	18.0	34.5 ±10%	120	650	478-2493-1-ND	.41	.36	.33	1,000	243.00	VA100026D580DL
	30.0	21.0	41.0 ±10%	120	550	478-2494-1-ND	.41	.36	.33	1,000	243.00	VA100030D650DL
	48.0	34.0	62.0 ±10%	100	200	478-2495-1-ND	.41	.36	.33	1,000	243.00	VA100048D101DL
2000	60.0	42.0	76.0 ± 10%	300	400	478-2496-1-ND	.56	.50	.45	1,000	338.00	VA200060K121DL

† For Tape and Reel part number, change 1-ND to 2-ND.

ROHM ESD Protection Diodes

Digi-Reel® RoHS COMPLIANT

Fig. 1

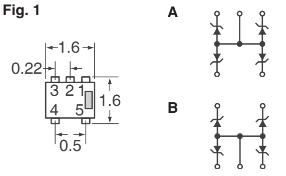

Fig. 2

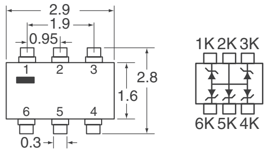

Fig. 3

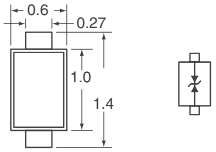

Fig. 4

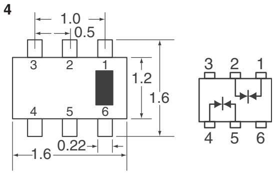

Fig.	Zener Voltage Vz (V) (Maximum)	Reverse Current IR (µA) (Maximum)	Forward Voltage VF (V) (Maximum)	Junction Capacitance Ct (pF) (Typical)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Rohm Part No.
1A	7.20	1.0	1.0	35	SC-75A	RSA6.1J4T2RCT-ND	.44	.34	.25	RSA6.1J4T2RTR-ND	8,000	107.00/M	RSA6.1J4T2R
1B	7.20	1.0	1.25	90	SOT-353	RSA6.1ENCT-ND	.46	.36	.26	RSA6.1ENTR-ND	3,000	121.00/M	RSA6.1ENTR
2	7.20	1.0	1.25	90	SMD6	RSA6.1U5T108CT-ND	.44	.34	.25	RSA6.1U5T108TR-ND	3,000	114.00/M	RSA6.1U5T108
3	7.82	0.5	—	15	VMD2	RSB6.8GT2RCT-ND	.44	.34	.25	RSB6.8GT2RTR-ND	8,000	107.00/M	RSB6.8GT2R
3	7.82	0.5	—	30	SOD-523	RSB6.8STE61CT-ND	.46	.36	.26	RSB6.8STE61TR-ND	3,000	121.00/M	RSB6.8STE61
4	14.4	0.1	—	1	EMD6	RSB12JS2T2RCT-ND	.55	.43	.31	RSB12JS2T2RTR-ND	8,000	136.00/M	RSB12JS2T2R

Microsemi. Transient Voltage Suppressor Arrays

Fig. 1 – SO-8

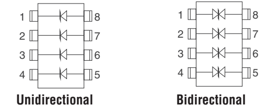

Fig. 2 – SO-8

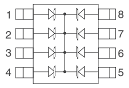

Fig. 3 – SO-8

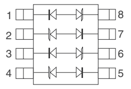

Fig. 4 – SO-16

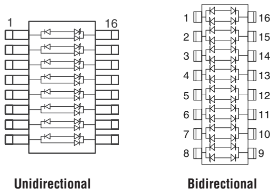

Fig. 5 — DO214AA

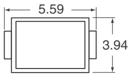

Fig. 6 — SOT-23

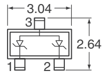

Fig. 7 — POWERMITE

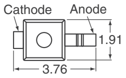

Fig. 8 — POWERMITE

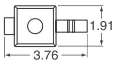

Fig.	Stand-off Voltage Vwm (V) Maximum	Breakdown Voltage V_{BR} @V_{BR} = 1mA (V) Minimum	Clamping Voltage V_C @1 Amp (V) Maximum	Leakage Current I_D @ V_{WM} (µAmps) Max.	Capaci-tance (f-1 MHz) @ 0 V C (pf) Typical	Temp. Coefficient of V_{BR} aV_{BR} mV/°C – Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Microsemi Part No.
SMDA Series, Unidirectional and SMDAxxC Series, Bidirectional — 300 Watt													
1	15	16.7	24	1	140	13	SMDA15MSCT-ND	6.43	4.29	3.43	2,500	2143.00/M	SMDA15
	24	26.7	43	1	90	30 Typical	SMDA24E3-ND◆†	3.43	3.09	2.58	—	—	SMDA24E3
	15	16.7	24	1	70	11	SMDA15CMSCT-ND◆	3.75	3.38	2.82	2,500	1246.22/M	SMDA15C
SMDAxxC-7 Series, Bidirectional — 300 Watt													
2	12	13.3	19	1	75	8	SMDA12C-7MSCT-ND	7.23	4.82	3.86	2,500	2410.00/M	SMDA12C-7
SM8LCxx Series, Bidirectional — 500 Watt													
3	3.3	4	6.5	200	25	-3	SM8LC03MSCT-ND	3.86	3.47	2.90	2,500	1282.12/M	SM8LC03
	5	6	9.8	125	25	3	SM8LC05MSCT-ND	3.86	3.47	2.90	2,500	1282.00/M	SM8LC05TR13
SM16LCxx Series, Unidirectional — 500 Watt — RoHS Compliant													
4	5	6	9.8	20	25	1	SM16LC05E3-ND†	4.85	4.37	3.64	—	—	SM16LC05E3
SM16LCxx Series, Unidirectional and SM16LCxxC Series, Bidirectional — 300 Watt													
4	15	16.7	24	2	25	11	SM16LC15MSCT-ND	4.85	4.37	3.64	—	—	SM16LC15
	12	13.3	19.5	2	25	8	SM16LC12CMSCT-ND	5.64	5.08	4.24	—	—	SM16LC12C
SMBJxxC Series, Bidirectional — 600 Watt — RoHS Compliant													
5	24	26.7	38.9	1	—	—	SMBJ24CAMSCT-ND	.72	.65	.54	—	—	SMBJ24CA-TRE3
SM Series, Unidirectional — 300 Watt — RoHS Compliant													
6	5	6	9.8	20	400 Max.	—	SM05E3CT-ND	.68	.62	.51	3,000	425.00/M	SM05E3
UPT Series, Unidirectional — 1000 Watt — RoHS Compliant													
7	5	6	9.5	5	—	.03	UPT5RE3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT5RE3/TR7
	8	9	13.7	2	—	.04	UPT8RE3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT8RE3/TR7
	10	11	18	2	—	.045	UPT10RE3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT10RE3/TR7
	12	13.8	21.6	1	—	.05	UPT12RE3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT12RE3/TR7
	15	16.7	26	1	—	.055	UPT15RE3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT15RE3/TR7
	17	19	29.2	1	—	.06	UPT17RE3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT17RE3/TR7
	24	28.4	43.2	1	—	.07	UPT24RE3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT24RE3/TR7
	33	36.8	56.7	1	—	.08	UPT33RE3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT33RE3/TR7
	48	54	84.3	1	—	.09	UPT48RE3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT48RE3/TR7
UPTB Series, Bidirectional — 1000 Watt — RoHS Compliant													
8	8	9	13.7	2	—	.04	UPTB8E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB8E3/TR7
	10	11	18	2	—	.045	UPTB10E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB10E3/TR7
	12	13.8	21.6	1	—	.05	UPTB12E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB12E3/TR7
	15	16.7	26	1	—	.055	UPTB15E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB15E3/TR7
	17	19	29.2	1	—	.06	UPTB17E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB17E3/TR7
	24	28.4	43.2	1	—	.07	UPTB24E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB24E3/TR7
	33	36.8	56.7	1	—	.08	UPTB33E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB33E3/TR7
	48	54	84.3	1	—	.09	UPTB48E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB48E3/TR7

◆ *RoHS Compliant* ‡ For Tape and Reel Part Number, change CT-ND to TR-ND. † Tube packaging

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transient Voltage Suppressors

Fig. 1 — PowerDI123

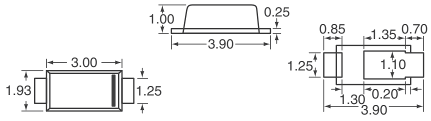

Fig. 2 — DO-15

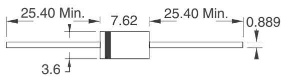

Fig. 3 — DO-201

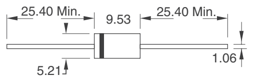

Fig. 4 — *NEW!* SMC

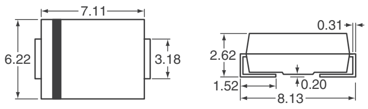

Fig. 5 — *NEW!* SOT-23

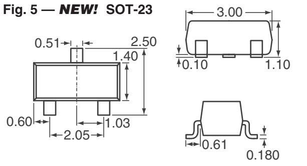

Fig. 6 — *NEW!* SOT-26

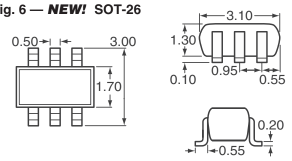

Fig. 7 — *NEW!* SOD-523

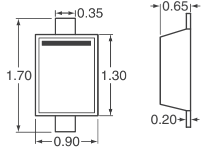

Breakdown Voltage V_{BR} @ I_T			I_T (mADC)	Reverse Standoff Voltage (V_{RWM})	Reverse DC Leakage Current @ V_{RWM} (µA)	Watts	Digi-Key Part No.	Cut Tape Pricing			Digi- Key Part No.	Tape & Reel		Diodes Part No.
Min.	Nom.	Max.						1	10	100		Qty.	Pricing	
Fig. 1 — PowerDI123, Unidirectional — RoHS Compliant														
6.4	—	7.00	10	5.0	400	225	DFLT5V0ADICT-ND	1.08	8.64	64.80	DFLT5V0ADITR-ND	3,000	342.00/M	DFLT5V0A-7
6.67	—	7.37	10	6.0	400	225	DFLT6V0ADICT-ND	1.08	8.64	64.80	DFLT6V0ADITR-ND	3,000	342.00/M	DFLT6V0A-7
7.22	—	7.98	10	6.5	250	225	DFLT6V5ADICT-ND	1.08	8.64	64.80	DFLT6V5ADITR-ND	3,000	342.00/M	DFLT6V5A-7
8.33	—	9.21	1.0	7.5	50	225	DFLT7V5ADICT-ND	1.08	8.64	64.80	DFLT7V5ADITR-ND	3,000	342.00/M	DFLT7V5A-7
8.89	—	9.83	1.0	8.0	25	225	DFLT8V0ADICT-ND	1.08	8.64	64.80	DFLT8V0ADITR-ND	3,000	342.00/M	DFLT8V0A-7
11.1	—	12.3	1.0	10	2.5	225	DFLT10ADICT-ND	1.08	8.64	64.80	DFLT10ADITR-ND	3,000	342.00/M	DFLT10A-7
12.2	—	13.5	1.0	11	2.5	225	DFLT11ADICT-ND	1.08	8.64	64.80	DFLT11ADITR-ND	3,000	342.00/M	DFLT11A-7
13.3	—	14.7	1.0	12	2.5	225	DFLT12ADICT-ND	1.08	8.64	64.80	DFLT12ADITR-ND	3,000	342.00/M	DFLT12A-7
14.4	—	15.9	1.0	13	1.0	225	DFLT13ADICT-ND	1.08	8.64	64.80	DFLT13ADITR-ND	3,000	342.00/M	DFLT13A-7
16.7	—	18.5	1.0	15	1.0	225	DFLT15ADICT-ND	1.08	8.64	64.80	DFLT15ADITR-ND	3,000	342.00/M	DFLT15A-7
18.9	—	20.9	1.0	17	1.0	225	DFLT17ADICT-ND	.81	6.48	48.60	DFLT17ADITR-ND	3,000	257.00/M	DFLT17A-7
20.0	—	22.1	1.0	18	1.0	225	DFLT18ADICT-ND	1.08	8.64	64.80	DFLT18ADITR-ND	3,000	342.00/M	DFLT18A-7
26.7	—	29.5	1.0	24	1.0	225	DFLT24ADICT-ND	1.08	8.64	64.80	DFLT24ADITR-ND	3,000	342.00/M	DFLT24A-7
30	—	33.15	1.0	27	1.0	225	DFLT27ADICT-ND	1.08	8.64	64.80	DFLT27ADITR-ND	3,000	342.00/M	DFLT27A-7
40.0	—	44.2	1.0	36	1.0	225	DFLT36ADICT-ND	.81	6.48	48.60	DFLT36ADITR-ND	3,000	257.00/M	DFLT36A-7
44.4	—	49.1	1.0	40	1.0	225	DFLT40ADICT-ND	1.08	8.64	64.80	DFLT40ADITR-ND	3,000	342.00/M	DFLT40A-7
56.7	—	62.7	1.0	51	1.0	225	DFLT51ADICT-ND	1.08	8.64	64.80	DFLT51ADITR-ND	3,000	342.00/M	DFLT51A-7
Fig. 2 — DO-15, Unidirectional — RoHS Compliant														
6.4	—	7.00	10	5.0	600	500	SA5V0ADICT-ND	.47	3.72	27.90	SA5V0ADITR-ND	4,000	140.00/M	SA5V0A-T
6.67	—	7.37	10	6.0	600	500	SA6V0ADICT-ND	.47	3.72	27.90	SA6V0ADITR-ND	4,000	140.00/M	SA6V0ADI
7.22	—	7.98	10	6.5	400	500	SA6V5ADICT-ND	.47	3.72	27.90	SA6V5ADITR-ND	4,000	140.00/M	SA6.5ADI
11.1	—	12.3	1	10	3	500	SA10ADICT-ND	.47	3.72	27.90	SA10ADITR-ND	4,000	140.00/M	SA10ADI
13.3	—	14.7	1	12	3	500	SA12ADICT-ND	.47	3.72	27.90	SA12ADITR-ND	4,000	140.00/M	SA12ADI
16.7	—	18.5	1	15	3	500	SA15ADICT-ND	.47	3.72	27.90	SA15ADITR-ND	4,000	140.00/M	SA15ADI
22.2	—	24.5	1	20	3	500	SA20ADICT-ND	.47	3.72	27.90	SA20ADITR-ND	4,000	140.00/M	SA20ADI
33.3	—	36.8	1	30	3	500	SA30ADICT-ND	.47	3.72	27.90	SA30ADITR-ND	4,000	140.00/M	SA30ADI
Fig. 2 — DO-15, Bidirectional — RoHS Compliant														
6.67	—	7.37	10	6.0	600	500	SA6V0CADICT-ND	.56	4.44	33.30	SA6V0CADITR-ND	4,000	167.00/M	SA6.0CADI
7.22	—	7.98	10	6.5	400	500	SA6V5CADICT-ND	.56	4.44	33.30	SA6V5CADITR-ND	4,000	167.00/M	SA6.5CADI
11.1	—	12.3	1	10	3	500	SA10CADICT-ND	.56	4.44	33.30	SA10CADITR-ND	4,000	167.00/M	SA10CADI
13.3	—	14.7	1	12	3	500	SA12CADICT-ND	.56	4.44	33.30	SA12CADITR-ND	4,000	167.00/M	SA12CADI
16.7	—	18.5	1	15	3	500	SA15CADICT-ND	.56	4.44	33.30	SA15CADITR-ND	4,000	167.00/M	SA15CADI
22.2	—	24.5	1	20	3	500	SA20CADICT-ND	.56	4.44	33.30	SA20CADITR-ND	4,000	167.00/M	SA20CADI
33.3	—	36.8	1	30	3	500	SA30CADICT-ND	.56	4.44	33.30	SA30CADITR-ND	4,000	167.00/M	SA30CADI
Fig. 2 — DO-15, Unidirectional														
7.13	7.5	7.88	10	6.4	500	600	P6KE7V5ADICT-ND◆	.47	3.72	27.90	P6KE7V5ADITR-ND◆	4,000	140.00/M	P6KE7.5A
7.79	8.2	8.61	10	7.02	200	600	P6KE8V2ADICT-ND	.47	3.72	27.90	—	—	—	P6KE8.2A
9.5	10.0	10.5	1	8.55	10	600	P6KE10ADICT-ND◆	.47	3.72	27.90	P6KE10ADITR-ND◆	4,000	140.00/M	P6KE10A
11.4	12.0	12.6	1	10.2	5	600	P6KE12ADICT-ND◆	.47	3.72	27.90	P6KE12ADITR-ND◆	4,000	140.00/M	P6KE12A
14.3	15.0	15.8	1	12.8	5	600	P6KE15ADICT-ND◆	.47	3.72	27.90	P6KE15ADITR-ND◆	4,000	140.00/M	P6KE15A
19.0	20.0	21.0	1	17.1	5	600	P6KE20ADICT-ND◆	.47	3.72	27.90	P6KE20ADITR-ND◆	4,000	140.00/M	P6KE20A
22.8	24.0	25.2	1	20.5	5	600	P6KE24ADICT-ND◆	.47	3.72	27.90	P6KE24ADITR-ND◆	4,000	140.00/M	P6KE24A
25.7	27.0	28.4	1	23.1	5	600	P6KE27ADICT-ND◆	.47	3.72	27.90	P6KE27ADITR-ND◆	4,000	140.00/M	P6KE27A
28.5	30.0	31.5	1	25.5	5	600	P6KE30ADICT-ND◆	.47	3.72	27.90	P6KE30ADITR-ND◆	4,000	140.00/M	P6KE30A
31.4	33.0	34.7	1	28.2	5	600	P6KE33ADICT-ND◆	.47	3.72	27.90	P6KE33ADITR-ND◆	4,000	140.00/M	P6KE33A
48.5	51.0	53.6	1	43.6	5	600	P6KE51ADICT-ND◆	.47	3.72	27.90	P6KE51ADITR-ND◆	4,000	140.00/M	P6KE51A
64.6	68.0	71.4	1	58.1	5	600	P6KE68ADICT-ND◆	.47	3.72	27.90	P6KE68ADITR-ND◆	4,000	140.00/M	P6KE68A
Fig. 2 — DO-15, Bidirectional														
7.13	7.5	7.88	10	6.4	500	600	P6KE7.5CADICT-ND◆	.56	4.44	33.30	P6KE7.5CADITR-ND◆	4,000	167.00/M	P6KE7.5CA
7.79	8.2	8.61	10	7.02	200	600	P6KE8V2CADICT-ND	.56	4.44	33.30	P6KE8V2CADITR-ND	4,000	167.00/M	P6KE8.2CA
9.5	10.0	10.5	1	8.55	10	600	P6KE10CADICT-ND◆	.56	4.44	33.30	P6KE10CADITR-ND◆	4,000	167.00/M	P6KE10CA
11.4	12.0	12.6	1	10.2	5	600	P6KE12CADICT-ND◆	.56	4.44	33.30	P6KE12CADITR-ND◆	4,000	167.00/M	P6KE12CA
14.3	15.0	15.8	1	12.8	5	600	P6KE15CADICT-ND◆	.56	4.44	33.30	P6KE15CADITR-ND◆	4,000	167.00/M	P6KE15CA
19.0	20.0	21.0	1	17.1	5	600	P6KE20CADICT-ND◆	.56	4.44	33.30	P6KE20CADITR-ND◆	4,000	167.00/M	P6KE20CA
22.8	24.0	25.2	1	20.5	5	600	P6KE24CADICT-ND◆	.56	4.44	33.30	P6KE24CADITR-ND◆	4,000	167.00/M	P6KE24CA
25.7	27.0	28.4	1	23.1	5	600	P6KE27CADICT-ND◆	.56	4.44	33.30	P6KE27CADITR-ND◆	4,000	167.00/M	P6KE27CA
28.5	30.0	31.5	1	25.5	5	600	P6KE30CADICT-ND◆	.56	4.44	33.30	P6KE30CADITR-ND◆	4,000	167.00/M	P6KE30CA
31.4	33.0	34.7	1	28.2	5	600	P6KE33CADICT-ND◆	.56	4.44	33.30	P6KE33CADITR-ND◆	4,000	167.00/M	P6KE33CA
48.5	51.0	53.6	1	43.6	5	600	P6KE51CADICT-ND◆	.56	4.44	33.30	P6KE51CADITR-ND◆	4,000	167.00/M	P6KE51CA
64.6	68.0	71.4	1	58.1	5	600	P6KE68CADICT-ND◆	.56	4.44	33.30	P6KE68CADITR-ND◆	4,000	167.00/M	P6KE68CA
95.0	100.0	105.0	1	85.5	5	600	P6KE100CADICT-ND◆	.56	4.44	33.30	P6KE100CADITR-ND◆	4,000	167.00/M	P6KE100CA
143.0	150.0	158.0	1	128.0	5	600	P6KE150CADICT-ND◆	.56	4.44	33.30	P6KE150CADITR-ND◆	4,000	167.00/M	P6KE150CA
Fig. 3 — DO-201, Unidirectional — RoHS Compliant														
7.13	7.5	7.88	10	6.4	500	1500	1.5KE7V5ADICT-ND	.69	5.54	41.52	1.5KE7V5ADITR-ND	1,000	251.00	1.5KE7.5A
7.79	8.2	8.61	10	7.02	200	1500	1.5KE8.2ADICT-ND	.69	5.54	41.52	1.5KE8.2ADITR-ND	1,000	251.00	1.5KE8.2A
9.5	10.0	10.5	1	8.55	10	1500	1.5KE10ADICT-ND	.69	5.54	41.52	1.5KE10ADITR-ND	1,000	251.00	1.5KE10A
11.4	12.0	12.6	1	10.2	5	1500	1.5KE12ADICT-ND	.69	5.54	41.52	1.5KE12ADITR-ND	1,000	251.00	1.5KE12A
14.3	15.0	15.8	1	12.8	5	1500	1.5KE15ADICT-ND	.69	5.54	41.52	1.5KE15ADITR-ND	1,000	251.00	1.5KE15A
19.0	20.0	21.0	1	17.1	5	1500	1.5KE20ADICT-ND	.69	5.54	41.52	1.5KE20ADITR-ND	1,000	251.00	1.5KE20A
22.8	24.0	25.2	1	20.5	5	1500	1.5KE24ADICT-ND	.69	5.54	41.52	1.5KE24ADITR-ND	1,000	251.00	1.5KE24A
25.7	27.0	28.4	1	23.1	5	1500	1.5KE27ADICT-ND	.69	5.54	41.52	1.5KE27ADITR-ND	1,000	251.00	1.5KE27A
28.5	30.0	31.5	1	25.5	5	1500	1.5KE30 ADICT-ND	.69	5.54	41.52	1.5KE30ADITR-ND	1,000	251.00	1.5KE30A
31.4	33.0	34.7	1	28.2	5	1500	1.5KE33ADICT-ND	.69	5.54	41.52	1.5KE33ADITR-ND	1,000	251.00	1.5KE33A
48.5	51.0	53.6	1	43.6	5	1500	1.5KE51ADICT-ND	.69	5.54	41.52	1.5KE51ADITR-ND	1,000	251.00	1.5KE51A
64.6	68.0	71.4	1	58.1	5	1500	1.5KE68ADICT-ND	.69	5.54	41.52	1.5KE68ADITR-ND	1,000	251.00	1.5KE68A
Fig. 3 — DO-201, Bidirectional — RoHS Compliant														
6.45	6.8	7.14	10	5.8	1000	1500	1.5KE6V8CADICT-ND	.74	5.95	44.64	1.5KE6V8CADITR-ND	1,000	270.00	1.5KE6.8CA
7.79	8.2	8.61	10	7.02	200	1500	1.5KE8.2CADICT-ND	.74	5.95	44.64	1.5KE8.2CADITR-ND	1,000	270.00	1.5KE8.2CA
9.5	10.0	10.5	1	8.55	10	1500	1.5KE10CADICT-ND	.74	5.95	44.64	1.5KE10CADITR-ND	1,000	270.00	1.5KE10CA

◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transient Voltage Suppressors *(Cont.)*

Breakdown Voltage V_{BR} @ I_T Min.	Nom.	Max.	I_T (mADC)	Reverse Standoff Voltage (V_{RWM})	Reverse DC Leakage Current @ V_{RWM} (µA)	Watts	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi- Key Part No.	Tape & Reel Qty.	Pricing	Diodes Part No.
11.4	12.0	12.6	1	10.2	5	1500	1.5KE12CADICT-ND	.74	5.95	44.64	1.5KE12CADITR-ND	1,000	270.00	1.5KE12CA
14.3	15.0	15.8	1	12.8	5	1500	1.5KE15CADICT-ND	.74	5.95	44.64	1.5KE15CADITR-ND	1,000	288.30	1.5KE15CA
19.0	20.0	21.0	1	17.1	5	1500	1.5KE20CADICT-ND	.74	5.95	44.64	1.5KE20CADITR-ND	1,000	270.00	1.5KE20CA
22.8	24.0	25.2	1	20.5	5	1500	1.5KE24CADICT-ND	.74	5.95	44.64	1.5KE24CADITR-ND	1,000	270.00	1.5KE24CA
25.7	27.0	28.4	1	23.1	5	1500	1.5KE27CADICT-ND	.74	5.95	44.64	1.5KE27CADITR-ND	1,000	270.00	1.5KE27CA
28.5	30.0	31.5	1	25.5	5	1500	1.5KE30CADICT-ND	.74	5.95	44.64	1.5KE30CADITR-ND	1,000	270.00	1.5KE30CA
31.4	33.0	34.7	1	28.2	5	1500	1.5KE33CADICT-ND	.74	5.95	44.64	1.5KE33CADITR-ND	1,000	270.00	1.5KE33CA
48.5	51.0	53.6	1	43.6	5	1500	1.5KE51CADICT-ND	.74	5.95	44.64	1.5KE51CADITR-ND	1,000	270.00	1.5KE51CA
64.6	68.0	71.4	1	58.1	5	1500	1.5KE68CADICT-ND	.74	5.95	44.64	1.5KE68CADITR-ND	1,000	270.00	1.5KE68CA
95.0	100.0	105.0	1	85.5	5	1500	1.5KE100CADICT-ND	.74	5.95	44.64	1.5KE100CADITR-ND	1,000	270.00	1.5KE100CA
143.0	150.0	158.0	1	128.0	5	1500	1.5KE150CADICT-ND	.74	5.95	44.64	1.5KE150CADITR-ND	1,000	270.00	1.5KE150CA
NEW! Fig. 4 — SMC, Unidirectional — RoHS Compliant NEW!														
6.40	—	7.07	10	5.0	1000	3000	3.0SMCJ5.0ADICT-ND	1.65	14.30	110.00	3.0SMCJ5.0ADITR-ND	3,000	585.00/M	3.0SMCJ5.0A-13
22.20	—	24.5	1.0	20.0	5.0	3000	3.0SMCJ20ADICT-ND	1.65	14.30	110.00	3.0SMCJ20ADITR-ND	3,000	585.00/M	3.0SMCJ20A-13
24.40	—	27.0	1.0	22.0	5.0	3000	3.0SMCJ22ADICT-ND	1.65	14.30	110.00	3.0SMCJ22ADITR-ND	3,000	585.00/M	3.0SMCJ22A-13
26.70	—	29.5	1.0	24.0	5.0	3000	3.0SMCJ24ADICT-ND	1.65	14.30	110.00	3.0SMCJ24ADITR-ND	3,000	585.00/M	3.0SMCJ24A-13
31.10	—	34.4	1.0	28.0	5.0	3000	3.0SMCJ28ADICT-ND	1.65	14.30	110.00	3.0SMCJ28ADITR-ND	3,000	585.00/M	3.0SMCJ28A-13
33.30	—	36.8	1.0	30.0	5.0	3000	3.0SMCJ30ADICT-ND	1.65	14.30	110.00	3.0SMCJ30ADITR-ND	3,000	585.00/M	3.0SMCJ30A-13
64.40	—	71.2	1.0	58.0	5.0	3000	3.0SMCJ58ADICT-ND	1.65	14.30	110.00	3.0SMCJ58ADITR-ND	3,000	585.00/M	3.0SMCJ58A-13
NEW! Fig. 5 — SOT-23, Unidirectional — RoHS Compliant NEW!														
4.0	—	—	1.0	3.3	110	350	DLP03LCDICT-ND	.50	4.00	30.00	DLP03LCDITR-ND	3,000	150.00/M	DLP03LC-7
NEW! Fig. 6 — SOT-26, Bidirectional — RoHS Compliant NEW!														
4.0	—	—	1.0	3.3	110	330	DLPD3V3LCDICT-ND	.58	4.60	34.50	DLPD3V3LCDITR-ND	3,000	173.00/M	DLPD3V3LC-7
NEW! Fig. 7 — SOD-523, Unidirectional — RoHS Compliant NEW!														
5.0	—	—	1.0	3.3	1	220	T3V3S5DICT-ND	.49	3.75	27.00	T3V3S5DITR-ND	3,000	128.00/M	T3V3S5-7
6.2	—	—	1.0	5.0	0.05	260	T5V0S5DICT-ND	.49	3.75	27.00	T5V0S5DITR-ND	3,000	128.00/M	T5V0S5-7
14.1	—	—	1.0	12	0.01	300	T12S5DICT-ND	.49	3.75	27.00	T12S5DITR-ND	3,000	128.00/M	T12S5-7

◆ ***RoHS Compliant***

SMB Bi-Directional Thyristor Surge Protection Device

Digi-Reel®

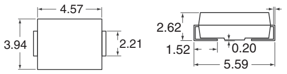

Features: • 58V - 320V Stand-Off Voltages • Oxide-Glass Passivated Junction • Bidirectional protection in a single device • High Off-State Impedance and Low On-State Voltage **Mechanical Data: • Case:** SMB, Molded plastic **• Case Material:** UL Flammability Classification Rating 94V-0

Non-Repetitive Peak Impulse Current (A) 10/1000µs	Rated Repetitive Off-State Volt. V_{DRM} (V)	Off-State Leakage Current @ V_{DRM} I_{DRM} (µA)	Breakover Voltage V_{BO} (V)	Holding Current I_H (mA) Min.	Max.	Off-State Capac-itance C_O (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Diodes Part No.
30	58	5	77	150	800	100	TB0640L-FDICT-ND◆	1.05	.91	.70	TB0640L-FDITR-ND◆	372.00/M	TB0640L-13-F
	65	5	88	150	800	100	TB0720LDICT-ND	1.05	.91	.70	TB0720LDITR-ND	372.00/M	TB0720L-13
	65	5	88	150	800	100	TB0720L-FDICT-ND◆	1.05	.91	.70	TB0720L-FDITR-ND◆	372.00/M	TB0720L-13-F
	75	5	98	150	800	100	TB0900LDICT-ND	1.05	.91	.70	—	—	TB0900L-13
	75	5	98	150	800	100	TB0900L-FDICT-ND◆	1.05	.91	.70	TB0900L-FDITR-ND◆	372.00/M	TB0900L-13-F
	90	5	130	150	800	60	TB1100LDICT-ND	1.05	.91	.70	TB1100LDITR-ND	372.00/M	TB1100L-13
	90	5	130	150	800	60	TB1100L-FDICT-ND◆	1.05	.91	.70	TB1100L-FDITR-ND◆	372.00/M	TB1100L-13-F
	120	5	160	150	800	60	TB1300L-FDICT-ND◆	1.05	.91	.70	TB1300L-FDITR-ND◆	372.00/M	TB1300L-13-F
	140	5	180	150	800	60	TB1500LDICT-ND	1.05	.91	.70	TB1500LDITR-ND	372.00/M	TB1500L-13
	140	5	180	150	800	60	TB1500L-FDICT-ND◆	1.05	.91	.70	TB1500L-FDITR-ND◆	372.00/M	TB1500L-13-F
	160	5	220	150	800	60	TB1800LDICT-ND	1.05	.91	.70	TB1800LDITR-ND	372.00/M	TB1800L-13
	160	5	220	150	800	60	TB1800L-FDICT-ND◆	1.05	.91	.70	TB1800L-FDITR-ND◆	372.00/M	TB1800L-13-F
	190	5	265	150	800	40	TB2300LDICT-ND	1.05	.91	.70	TB2300LDITR-ND	372.00/M	TB2300L-13
	190	5	265	150	800	40	TB2300L-FDICT-ND◆	1.05	.91	.70	TB2300L-FDITR-ND◆	372.00/M	TB2300L-13-F
	220	5	300	150	800	40	TB2600LDICT-ND	1.05	.91	.70	—	—	TB2600L-13
	220	5	300	150	800	40	TB2600L-FDICT-ND◆	1.05	.91	.70	TB2600L-FDITR-ND◆	372.00/M	TB2600L-13-F
	275	5	350	150	800	40	TB3100LDICT-ND	1.05	.91	.70	—	—	TB3100L-13
	275	5	350	150	800	40	TB3100L-FDICT-ND◆	1.05	.91	.70	TB3100L-FDITR-ND◆	372.00/M	TB3100L-13-F
	320	5	400	150	800	40	TB3500LDICT-ND	1.05	.91	.70	—	—	TB3500L-13
	320	5	400	150	800	40	TB3500L-FDICT-ND◆	1.05	.91	.70	TB3500L-FDITR-ND◆	372.00/M	TB3500L-13-F
50	58	5	77	150	800	140	TB0640MDICT-ND	1.13	.98	.75	—	—	TB0640M-13
	58	5	77	150	800	140	TB0640M-FDICT-ND◆	1.13	.98	.75	TB0640M-FDITR-ND◆	399.00/M	TB0640M-13-F
	65	5	88	150	800	140	TB0720MDICT-ND	1.13	.98	.75	TB0720MDITR-ND	399.00/M	TB0720M-13
	65	5	88	150	800	140	TB0720M-FDICT-ND◆	1.13	.98	.75	TB0720M-FDITR-ND◆	399.00/M	TB0720M-13-F
	75	5	98	150	800	140	TB0900MDICT-ND	1.13	.98	.75	TB0900MDITR-ND	399.00/M	TB0900M-13
	75	5	98	150	800	140	TB0900M-FDICT-ND◆	1.13	.98	.75	TB0900M-FDITR-ND◆	399.00/M	TB0900M-13-F
	90	5	130	150	800	90	TB1100MDICT-ND	1.13	.98	.75	TB1100MDITR-ND	399.00/M	TB01100M-13
	90	5	130	150	800	90	TB1100M-FDICT-ND◆	1.13	.98	.75	TB1100M-FDITR-ND◆	399.00/M	TB01100M-13-F
	120	5	160	150	800	90	TB1300MDICT-ND	1.13	.98	.75	TB1300MDITR-ND	399.00/M	TB1300M-13
	120	5	160	150	800	90	TB1300M-FDICT-ND◆	1.13	.98	.75	TB1300M-FDITR-ND◆	399.00/M	TB1300M-13-F
	140	5	180	150	800	90	TB1500MDICT-ND	1.13	.98	.75	TB1500MDITR-ND	399.00/M	TB1500M-13
	140	5	180	150	800	90	TB1500M-FDICT-ND◆	1.13	.98	.75	TB1500M-FDITR-ND◆	399.00/M	TB1500M-13-F
	160	5	220	150	800	90	TB1800MDICT-ND	1.13	.98	.75	TB1800MDITR-ND	399.00/M	TB1800M-13
	160	5	220	150	800	90	TB1800M-FDICT-ND◆	1.13	.98	.75	TB1800M-FDITR-ND◆	399.00/M	TB1800M-13-F
	190	5	265	150	800	60	TB2300MDICT-ND	1.13	.98	.75	TB2300MDITR-ND	399.00/M	TB2300M-13
	190	5	265	150	800	60	TB2300M-FDICT-ND◆	1.13	.98	.75	TB2300M-FDITR-ND◆	399.00/M	TB2300M-13-F
	220	5	300	150	800	60	TB2600MDICT-ND	1.13	.98	.75	TB2600MDITR-ND	399.00/M	TB2600M-13
	220	5	300	150	800	60	TB2600M-FDICT-ND◆	1.13	.98	.75	TB2600M-FDITR-ND◆	399.00/M	TB2600M-13-F
	275	5	350	150	800	60	TB3100MDICT-ND	1.13	.98	.75	TB3100MDITR-ND	399.00/M	TB3100M-13
	275	5	350	150	800	60	TB3100M-FDICT-ND◆	1.13	.98	.75	TB3100M-FDITR-ND◆	399.00/M	TB3100M-13-F
	320	5	400	150	800	60	TB3500MDICT-ND	1.13	.98	.75	TB3500MDITR-ND	399.00/M	TB3500M-13
	320	5	400	150	800	60	TB3500M-FDICT-ND◆	1.13	.98	.75	TB3500M-FDITR-ND◆	399.00/M	TB3500M-13-F
100	58	5	77	150	800	200	TB0640HDICT-ND	1.24	1.08	.83	—	—	TB0640H-13
	58	5	77	150	800	200	TB0640H-FDICT-ND◆	1.24	1.08	.83	TB0640H-FDITR-ND◆	439.00/M	TB0640H-13-F
	65	5	88	150	800	200	TB0720H-FDICT-ND◆	1.24	1.08	.83	TB0720H-FDITR-ND◆	439.00/M	TB0720H-13-F
	75	5	98	150	800	200	TB0900HDICT-ND	1.24	1.08	.83	TB0900HDITR-ND	439.00/M	TB0900H-13
	75	5	98	150	800	200	TB0900H-FDICT-ND◆	1.24	1.08	.83	TB0900H-FDITR-ND◆	439.00/M	TB0900H-13-F
	90	5	130	150	800	120	TB1100H-FDICT-ND◆	1.24	1.08	.83	TB1100H-FDITR-ND◆	439.00/M	TB1100H-13-F
	120	5	160	150	800	120	TB1300HDICT-ND	1.24	1.08	.83	TB1300HDITR-ND	439.00/M	TB1300H-13
	120	5	160	150	800	120	TB1300H-FDICT-ND◆	1.24	1.08	.83	TB1300H-FDITR-ND◆	439.00/M	TB1300H-13-F
	140	5	180	150	800	120	TB1500HDICT-ND	1.24	1.08	.83	—	—	TB1500H-13
	140	5	180	150	800	120	TB1500H-FDICT-ND◆	1.24	1.08	.83	TB1500H-FDITR-ND◆	439.00/M	TB1500H-13-F
	160	5	220	150	800	120	TB1800HDICT-ND	1.24	1.08	.83	TB1800HDITR-ND	439.00/M	TB1800H-13
	160	5	220	150	800	120	TB1800H-FDICT-ND◆	1.24	1.08	.83	TB1800H-FDITR-ND◆	439.00/M	TB1800H-13-F
	190	5	265	150	800	80	TB2300HDICT-ND	1.24	1.08	.83	TB2300HDITR-ND	439.00/M	TB2300H-13
	190	5	265	150	800	80	TB2300H-FDICT-ND◆	1.24	1.08	.83	TB2300H-FDITR-ND◆	439.00/M	TB2300H-13-F
	220	5	300	150	800	80	TB2600HDICT-ND	1.24	1.08	.83	TB2600HDITR-ND	439.00/M	TB2600H-13
	220	5	300	150	800	80	TB2600H-FDICT-ND◆	1.24	1.08	.83	TB2600H-FDITR-ND◆	439.00/M	TB2600H-13-F
	275	5	350	150	800	80	TB3100HDICT-ND	1.24	1.08	.83	TB3100HDITR-ND	439.00/M	TB3100H-13
	275	5	350	150	800	80	TB3100H-FDICT-ND◆	1.24	1.08	.83	TB3100H-FDITR-ND◆	439.00/M	TB3100H-13-F
	320	5	400	150	800	80	TB3500HDICT-ND	1.24	1.08	.83	TB3500HDITR-ND	439.00/M	TB3500H-13
	320	5	400	150	800	80	TB3500H-FDICT-ND◆	1.24	1.08	.83	TB3500H-FDITR-ND◆	439.00/M	TB3500H-13-F

◆ ***RoHS Compliant***

SMA 400 Watt Surface Mount TVS Uni-Directional

Features:

• 400W Peak Pulse Power Dissipation • 70V Stand-Off Voltage • 100V Maximum Clamping Voltage, a requirement of many -48V backplane telecom applications • Glass Passivated Die Construction • Fast Response Time: Typically less than one ps

Mechanical Data:

• Plastic Case Material:
UL Flammability Classification Rating 94V-0

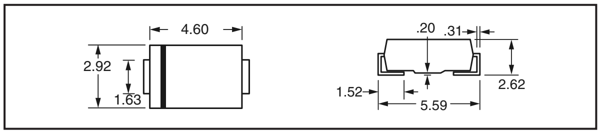

Reverse Standoff Voltage V_{RWM} (V)	Breakdown Voltage V_{BR} @ I_T Min. (V)	Max. (V)	Test Current I_T (mA)	Max. Reverse Leakage @ V_{RWM} I_R (µA)	Maximum Clamping Voltage @ I_{pp} V_C (V)	Maximum Peak Pulse Current I_{pp} (A)	Typical Junction Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
70	77.8	89.5	1.0	5.0	100	3.5	55	SMAT70A-FDICT-ND	.77	6.12	45.90	SMAT70A-FDITR-ND	230.00/M

300 Watt Low Capacitance Uni-Directional TVS

Features:
• 300W Peak Pulse Power (tp=8x20µs) • Transient protection for data, signal, and Vcc bus to IEC61000-4-2 level 4 (ESD) and IEC 61000-4-4 (EFT) • Low Capacitance, typical <2 pF • Low Leakage Current • Uni-directional configuration • Surface mount package ideally suited for automatic insertion

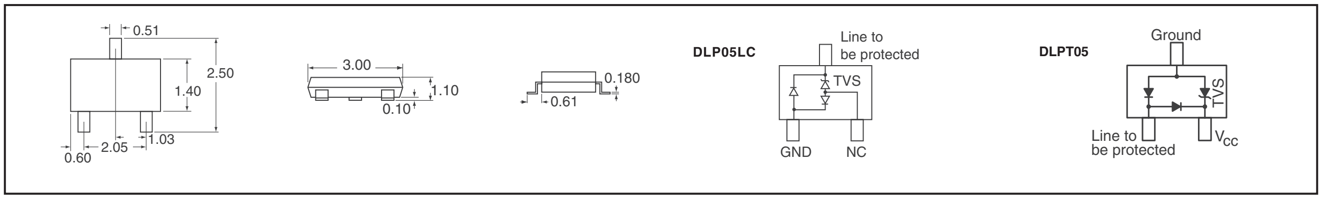

Reverse Standoff Voltage V_{RWM} (V)	Breakdown Voltage V_{BR} @ I_T Min. (V)	Test Current I_T (mA)	Max. Reverse Leakage @ V_{RWM} I_R (µA)	Maximum Clamping Voltage @ I_{pp} V_C (V)	Maximum Peak Pulse Current I_{pp} (A)	Typical Junction Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5	6.0	1.0	20	11.0	17	1.6	DLP05LC-FDICT-ND	.50	4.00	30.00	DLP05LC-FDITR-ND	150.00/M
5	6.0	1.0	20	9.8	17	1.9	DLPT05-FDICT-ND	.50	4.00	30.00	DLPT05-FDITR-ND	150.00/M

Dual Surface Mount TVS

Features: • Dual TVS in common anode and cathode configuration • 0.3W/40W Peak Power Dissipation Rating @ 1.0ms (Uni-directional) • Ideally suited for automatic insertion • 225-300mW Power Dissipation

Mechanical Data: • Case: SOT-23, Molded plastic • **Case Material**: UL Flammability Classification Rating 94V-0 • **Terminals**: Solderable per MIL-STD-202, Method 208

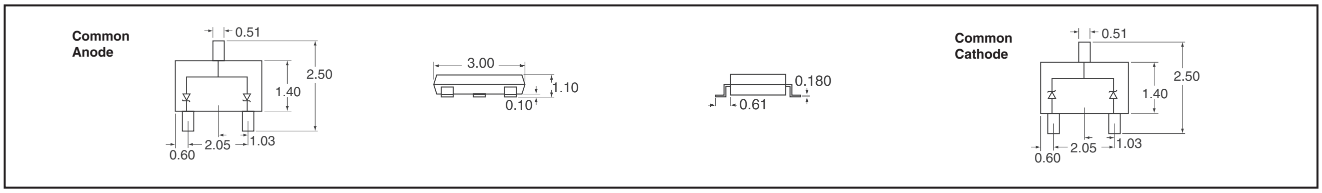

Peak Power Dissipation	V_{RWM} (V)	I_R @ V_{RWM} (µA)	Breakdown Voltage V_{BR} (V) Min.	Nom.	Max.	@ I_T (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Common Anode												
24W	3	5.0	5.32	5.6	5.88	20	MMBZ5V6AL-FDICT-ND◆	.50	4.00	30.00	MMBZ5V6AL-FDITR-ND◆	150.00/M
	3	0.5	5.89	6.2	6.51	1.0	MMBZ6V2AL-FDICT-ND◆	.50	4.00	30.00	MMBZ6V2AL-FDITR-ND◆	150.00/M
	4.5	0.5	6.46	6.8	7.14	1.0	MMBZ6V8AL-FDICT-ND◆	.50	4.00	30.00	MMBZ6V8AL-FDITR-ND◆	150.00/M
	6.0	0.3	8.65	9.1	9.56	1.0	MMBZ9V1AL-FDICT-ND◆	.50	4.00	30.00	MMBZ9V1AL-FDITR-ND◆	150.00/M
	6.5	0.3	9.50	10	10.5	1.0	MMBZ10VAL-FDICT-ND◆	.50	4.00	30.00	MMBZ10VAL-FDITR-ND◆	150.00/M
40W	12	.05	14.25	15	15.75	1.0	MMBZ15VAL-FDICT-ND◆	.50	4.00	30.00	MMBZ15VAL-FDITR-ND◆	150.00/M
	14.5	.05	17.10	18	18.90	1.0	MMBZ18VAL-FDICT-ND◆	.50	4.00	30.00	MMBZ18VAL-FDITR-ND◆	150.00/M
	17	.05	19.00	20	21.00	1.0	MMBZ20VALDICT-ND	.50	4.00	30.00	—	—
	17	.05	19.00	20	21.00	1.0	MMBZ20VAL-FDICT-ND◆	.50	4.00	30.00	MMBZ20VAL-FDITR-ND◆	150.00/M
	22	.05	25.65	27	28.35	1.0	MMBZ27VAL-FDICT-ND◆	.50	4.00	30.00	MMBZ27VAL-FDITR-ND◆	150.00/M
	26	.05	31.35	33	34.65	1.0	MMBZ33VAL-FDICT-ND◆	.50	4.00	30.00	MMBZ33VAL-FDITR-ND◆	150.00/M
372W	3.3	95	—	—	6.00	—	DLP3V3DTZDICT-ND◆	.55	4.40	33.00	DLP3V3DTZDITR-ND◆	165.00/M
Common Cathode — RoHS Compliant												
40W	12.8	0.1	14.3	15	15.8	1.0	MMBZ15VDL-FDICT-ND	.50	4.00	30.00	MMBZ15VDL-FDITR-ND	150.00/M
	22	.05	25.65	27	28.35	1.0	MMBZ27VCL-FDICT-ND	.50	4.00	30.00	MMBZ27VCL-FDITR-ND	150.00/M

◆ *RoHS Compliant*

SMAJ (J-Bend) 400 Watt Surface Mount TVS

Direction Type	***(Value)*** Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)	Direction Type	***(Value)*** Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)
Uni/Bi	5.0	6.40	7.25	800	Uni/Bi	28	31.1	34.4	5.0
Uni/Bi	6.0	6.67	7.37	800	Uni/Bi	30	33.3	36.8	5.0
Uni/Bi	6.5	7.22	7.98	500	Uni/Bi	33	36.7	40.6	5.0
Uni/Bi	7.0	7.78	8.60	200	Uni/Bi	36	40.0	44.2	5.0
Uni/Bi	7.5	8.33	9.21	100	Uni/Bi	40	44.4	49.1	5.0
Uni/Bi	8.0	8.89	9.83	50	Uni/Bi	43	47.8	52.8	5.0
Uni/Bi	8.5	9.44	10.4	10	Uni/Bi	45	50.0	55.3	5.0
Uni	9.0	10.0	11.1	5.0	Uni/Bi	48	53.3	58.9	5.0
Uni/Bi	10	11.1	12.3	5.0	Uni/Bi	60	66.7	73.7	5.0
Uni/Bi	11	12.2	13.5	5.0	Uni/Bi	64	71.1	78.6	5.0
Uni/Bi	12	13.3	14.7	5.0	Uni/Bi	70	77.8	86.0	5.0
Bi	13	14.4	15.9	5.0	Uni/Bi	75	83.3	92.1	5.0
Uni/Bi	14	15.6	17.2	5.0	Uni/Bi	78	86.7	95.8	5.0
Uni/Bi	15	16.7	18.5	5.0	Uni/Bi	85	94.4	104	5.0
Uni/Bi	16	17.8	19.7	5.0	Uni/Bi	90	100	111	5.0
Uni/Bi	17	18.9	20.9	5.0	Uni/Bi	100	111	123	5.0
Uni/Bi	18	20.0	22.1	5.0	Uni/Bi	110	122	135	5.0
Uni/Bi	20	22.2	24.5	5.0	Uni/Bi	120	133	147	5.0
Uni/Bi	22	24.4	26.9	5.0	Uni/Bi	130	144	159	5.0
Uni/Bi	24	26.7	29.5	5.0	Uni/Bi	150	167	185	5.0
Uni/Bi	26	28.9	25.3	5.0	Uni/Bi	160	178	197	5.0
					Uni/Bi	170	189	209	5.0

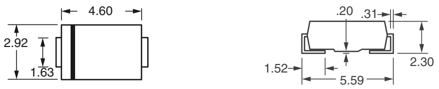

Features:

• 400W Peak Pulse Power Dissipation • 5.0V ~ 170V Stand-Off Voltages • Glass Passivated Die Construction • Uni/Bi = Uni- and Bi-directional versions available; Uni = Only available in Uni-directional version; Bi = Only available in Bi-directional version • Excellent clamping capability • Fast response time

Mechanical Data:

• **Case:** SMA, Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0
• **Terminals:** Solderable per MIL-STD-202, Method 208

Voltage Range ***(Value)*** See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
Uni-Directional						
7.0 ~ 150	SMAJ(Value)ADICT-ND	.68	.55	.41	SMAJ(Value)ADITR-ND	217.00/M
5.0 ~ 170	SMAJ(Value)A-FDICT-ND◆	.77	.62	.46	SMAJ(Value)A-FDITR-ND◆	230.00/M
Bi-Directional						
8.0 ~ 78	SMAJ(Value)CADICT-ND	.76	.61	.46	SMAJ(Value)CADITR-ND	242.00/M
5.0 ~ 170	SMAJ(Value)CA-FDICT-ND◆	.86	.69	.52	SMAJ(Value)CA-FDITR-ND◆	257.00/M

◆ ***RoHS Compliant***

SMBJ (J-Bend) 600 Watt Surface Mount TVS

Direction Type	***(Value)*** Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)	Direction Type	***(Value)*** Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)
Uni/Bi	5.0	6.40	7.23	800	Uni/Bi	33	36.70	42.20	5.0
Uni/Bi	6.0	6.67	7.67	800	Uni/Bi	36	40.00	46.00	5.0
Uni/Bi	6.5	7.22	9.14	1000	Uni/Bi	40	44.40	51.10	5.0
Uni/Bi	7.0	7.78	8.95	200	Uni	43	47.80	54.90	5.0
Uni/Bi	7.5	8.33	9.58	100	Uni/Bi	45	50.00	57.50	5.0
Uni/Bi	8.0	8.89	10.23	50	Uni/Bi	48	53.30	61.30	5.0
Uni/Bi	8.5	9.44	10.82	10	Uni/Bi	51	56.70	65.20	5.0
Uni/Bi	9.0	10.00	11.50	5.0	Uni/Bi	54	60.00	69.00	5.0
Uni/Bi	10	11.1	12.8	5.0	Uni/Bi	58	64.40	74.60	5.0
Uni/Bi	11	12.20	14.40	5.0	Uni/Bi	60	66.70	76.70	5.0
Uni/Bi	12	13.3	15.3	5.0	Uni/Bi	64	71.10	81.80	5.0
Uni/Bi	13	14.4	16.5	5.0	Uni/Bi	70	77.80	89.50	5.0
Uni/Bi	14	15.60	17.90	5.0	Uni/Bi	75	83.30	95.80	5.0
Uni/Bi	15	16.7	19.2	5.0	Uni/Bi	78	86.70	99.70	5.0
Uni/Bi	16	17.80	20.50	5.0	Uni/Bi	85	94.40	108.20	5.0
Uni/Bi	17	18.9	21.7	5.0	Uni/Bi	90	100.0	115.50	5.0
Uni/Bi	18	20.0	24.4	5.0	Uni/Bi	100	111.0	128.00	5.0
Uni/Bi	20	22.2	25.5	5.0	Uni/Bi	110	122.0	140.00	5.0
Uni/Bi	22	24.40	28.00	5.0	Uni/Bi	120	133.0	153.00	5.0
Uni/Bi	24	26.7	30.7	5.0	Uni/Bi	130	144.0	165.50	5.0
Uni/Bi	26	28.9	33.2	5.0	Uni/Bi	150	167.0	192.50	5.0
Uni/Bi	28	31.10	35.80	5.0	Uni/Bi	160	178.0	205.00	5.0
Uni/Bi	30	33.30	38.30	5.0	Uni/Bi	170	189.0	217.50	5.0

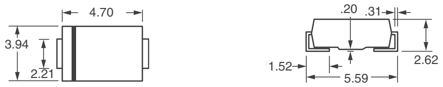

Features:

• 600W Peak Pulse Power Dissipation • 5.0V ~ 170V Stand-Off Voltages • Glass Passivated Die Construction • Uni/Bi = Uni- and Bi-directional versions available; Uni = Only available in Uni-directional version • Excellent clamping capability • Fast response time • 100% tested at rated peak pulse power

Mechanical Data:

• **Case:** SMB, Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0
• **Terminals:** Solderable per MIL-STD-202, Method 208

Voltage Range ***(Value)*** See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Uni-Directional						
7.5 ~ 170	SMBJ(Value)ADICT-ND	.89	.71	.54	SMBJ(Value)ADITR-ND	351.00/M
5.0 ~ 170	SMBJ(Value)A-FDICT-ND◆	1.01	.88	.68	SMBJ(Value)A-FDITR-ND◆	359.00/M
Bi-Directional						
7.0 ~ 150	SMBJ(Value)CADICT-ND	.96	.76	.58	—	—
5.0 ~ 170	SMBJ(Value)CA-FDICT-ND◆	1.09	.95	.73	SMBJ(Value)CA-FDITR-ND◆	386.00/M

◆ ***RoHS Compliant***

SMCJ (J-Bend) 1500 Watt Surface Mount TVS

Direction Type	***(Value)*** Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)	Direction Type	***(Value)*** Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)
Uni/Bi	5.0	6.40	7.25	1000	Uni/Bi	33	36.70	42.20	5.0
Uni/Bi	6.0	6.67	7.67	1000	Uni/Bi	36	40.00	46.00	5.0
Uni/Bi	6.5	7.22	8.30	500	Uni/Bi	40	44.40	51.10	5.0
Uni/Bi	7.0	7.78	8.60	200	Uni/Bi	43	47.80	54.90	5.0
Uni/Bi	7.5	8.33	9.58	100	Uni/Bi	45	50.00	57.50	5.0
Uni/Bi	8.0	8.89	10.23	50	Uni/Bi	48	53.30	58.9	5.0
Uni/Bi	8.5	9.44	10.82	20	Uni/Bi	51	56.70	65.20	5.0
Uni/Bi	9.0	10.00	11.50	10	Uni/Bi	54	60.00	69.00	5.0
Uni/Bi	10	11.10	12.80	5.0	Uni/Bi	58	64.40	71.2	5.0
Uni/Bi	11	12.20	14.40	5.0	Uni/Bi	60	66.70	73.7	5.0
Uni/Bi	12	13.30	15.30	5.0	Uni/Bi	64	71.10	78.6	5.0
Uni/Bi	13	14.40	16.50	5.0	Uni/Bi	70	77.80	89.50	5.0
Uni/Bi	14	15.60	17.2	5.0	Uni/Bi	75	83.30	95.80	5.0
Uni/Bi	15	16.70	19.20	5.0	Uni/Bi	78	86.70	99.70	5.0
Uni/Bi	16	17.80	20.50	5.0	Uni/Bi	85	94.40	108.20	5.0
Uni/Bi	17	18.90	21.70	5.0	Uni/Bi	90	100	111	5.0
Uni/Bi	18	20.00	23.30	5.0	Uni/Bi	100	111	123	5.0
Uni/Bi	20	22.20	25.50	5.0	Uni/Bi	110	122	135	5.0
Uni/Bi	22	24.40	27.00	5.0	Uni/Bi	120	133	147	5.0
Uni/Bi	24	26.70	30.70	5.0	Uni/Bi	130	144	159	5.0
Uni/Bi	26	28.90	31.9	5.0	Uni/Bi	150	167	185	5.0
Uni/Bi	28	31.10	35.80	5.0	Uni/Bi	160	178	197	5.0
Uni/Bi	30	33.30	38.30	5.0	Uni/Bi	170	189	209	5.0

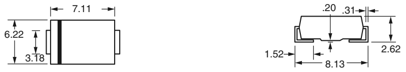

Features:

• 1500W Peak Pulse Power Dissipation • 5.0V ~ 170V Stand-Off Voltages • Glass Passivated Die Construction • Uni/Bi = Uni- and Bi-directional versions available • Excellent clamping capability • Fast response time

Mechanical Data:

• **Case:** SMC, Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0
• **Terminals:** Solderable per MIL-STD-202, Method 208

Voltage Range ***(Value)*** See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Uni-Directional						
6.0 ~ 170	SMCJ(Value)ADICT-ND	1.25	.99	.76	SMCJ(Value)ADITR-ND	494.00/M
5.0 ~ 170	SMCJ(Value)A-FDICT-ND◆	1.43	1.24	.95	SMCJ(Value)A-FDITR-ND◆	505.00/M
Bi-Directional						
6.0 ~ 78	SMCJ(Value)CADICT-ND	1.39	1.10	.84	SMCJ(Value)CADITR-ND	559.00/M
5.0 ~ 170	SMCJ(Value)CA-FDICT-ND◆	1.58	1.37	1.05	SMCJ(Value)CA-FDITR-ND◆	559.00/M

◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Littelfuse
Expertise Applied | Answers Delivered

SA Series – 500 Watt Axial TVS Diode

Improved 500W TVS diodes that can handle 1.0 watt steady state with improved reverse leakage characteristics. 100% surge tested. Use for applications requiring surge protection of sensitive electronic components. Marking: Cathode band – positive terminal (Uni-directional only), device code and logo.

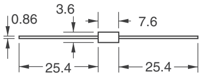

(Value) **Nominal Breakdown Voltage**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T Min.**	**Max.**	**Maximum Reverse Leakage I_R @ V_R (µA)**
5.0	5.0	6.40	7.00	600
6.0	6.0	6.67	7.37	600
12	12.0	13.30	14.70	1
15	15.0	16.70	18.50	1
16	16.0	17.80	19.70	1
33	33.0	36.70	40.60	1

Description	**Voltage Range *(Value)* See Chart**	**Digi-Key Part No.**	**Cut Tape Pricing 1**	**10**	**100**	**Digi-Key Part No.**	**Tape & Reel Pricing 4,000**
Uni-directional	5.0 ~ 33	SA**(Value)**ALFCT-ND	.37	3.42	28.71	SA**(Value)**ALFTR-ND	136.00/M
Bi-directional	6.0 ~ 33	SA**(Value)**CALFCT-ND	.41	3.80	31.90	SA**(Value)**CALFTR-ND	151.00/M

Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

NEW! SAC Series – 500 Watt Axial TVS Diode

SAC is designed for the protection of I/O interfaces, Vcc bus and other vulnerable circuits used in telecom, computer, industrial and consumer electronic applications. Very low junction capacitance maximum of 50pF @ 0 volts. Marking: Cathode band – positive terminal (Uni-directional only), device code and logo.

SPECIFICATIONS: • Operating Junction and Storage Temperature Range: -55°C ~ 175°C

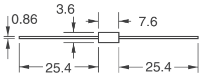

(Value) **Nominal Breakdown Voltage**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T Min.**	**Max.**	**Maximum Reverse Leakage I_R @ V_R (µA)**
5.0	5.0	7.60	10.0	300
6.0	6.0	7.90	11.2	300
7.0	7.0	8.33	12.6	300
8.0	8.0	8.89	13.4	100
8.5	8.5	9.44	14.0	50
10	10.0	11.10	16.3	5
12	12.0	13.30	19.0	1
15	15.0	16.70	23.6	1

Description	**Voltage Range *(Value)* See Chart**	**Digi-Key Part No.**	**Cut Tape Pricing 1**	**10**	**100**	**Digi-Key Part No.**	**Tape & Reel Pricing 4,000**
Uni-directional	5.0 ~ 15	SAC**(Value)**CT-ND	.29	2.62	22.04	SAC**(Value)**TR-ND	104.00/M

P6KE Series – 600 Watt Axial TVS Diode

Protects sensitive electronics against voltage transients induced by ESD, inductive load switching and lightning. Ideal for protection of I/O interfaces, Vcc bus and other power supply circuits. Marking: Cathode band – positive terminal (Uni-directional only), device code and logo.

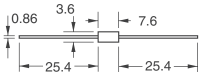

FEATURES:
• Glass passivated junction • Excellent clamping capability • Uni-directional and Bi-directional • 100% surge tested

(Value) **Nominal Breakdown Voltage**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T Min.**	**Max.**	**Maximum Reverse Leakage I_R @ V_R (µA)**
6.8	5.80	6.45	7.14	1000
7.5	6.40	7.13	7.88	500
9.1*	7.78	8.65	9.55	50
10	8.550	9.50	10.50	10
12	10.20	11.40	12.60	5
13	11.10	12.40	13.70	1
15	12.80	14.30	15.80	1
16	13.60	15.20	16.80	1
18	15.30	17.10	18.90	1
20	17.10	19.00	21.00	1
24*	20.50	22.80	25.20	1
27	23.10	25.70	28.40	1
30	25.60	28.50	31.50	1
33	28.20	31.40	34.70	1

(Value) **Nominal Breakdown Voltage**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T Min.**	**Max.**	**Maximum Reverse Leakage I_R @ V_R (µA)**
36	30.80	34.20	37.80	1
43	36.80	40.90	45.20	1
51	43.60	48.50	53.60	1
62	53.00	58.90	65.10	1
68	58.10	64.60	71.40	1
75	64.10	71.30	78.80	1
82	70.10	77.90	86.10	1
100	85.50	95.00	105.00	1
110	94.00	105.00	116.00	1
150	128.00	143.00	158.00	1
160	136.00	152.00	168.00	1
180	154.00	171.00	189.00	1
200	171.00	190.00	210.00	1
220	185.00	209.00	231.00	1
440	376.00	418.00	462.00	1

Description	**Voltage Range *(Value)* See Chart**	**Digi-Key Part No.**	**Cut Tape Pricing 1**	**10**	**Digi-Key Part No.**	**Tape & Reel Pricing 4,000**
Uni-directional	6.8 ~ 200 220 ~ 440	P6KE**(Value)**ALFCT-ND P6KE**(Value)**ALFCT-ND	.32 .45	2.93 4.11	P6KE**(Value)**ALFTR-ND* P6KE**(Value)**ALFTR-ND	116.00/M 163.00/M
Bi-directional	6.8 ~ 200 220 ~ 440	P6KE**(Value)**CALFCT-ND P6KE**(Value)**CALFCT-ND	.36 .50	3.28 4.59	P6KE**(Value)**CALFTR-ND P6KE**(Value)**CALFTR-ND	130.00/M 182.00/M

* 5,000 piece Tape and Reel for values 9.1 and 24
Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

1.5KE Series – 1500 Watt Axial TVS Diode

FEATURES:
- Glass passivated junction
- Low clamping factor
- Uni-directional and Bi-directional
- 100% surge tested

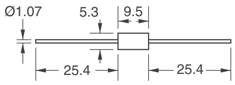

(Value) **Nominal Breakdown Voltage**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T Min.**	**Max.**	**Maximum Reverse Leakage I_R @ V_R (µA)**
6.8	5.80	6.45	7.14	1000
7.5	6.40	7.13	7.88	500
10	8.55	9.50	10.50	10
12	10.20	11.40	12.60	5
15	12.80	14.30	15.80	1
20	17.10	19.00	21.00	1
22	18.80	20.90	23.10	1
24	20.50	22.80	25.20	1
27	23.10	25.70	28.40	1
30	25.60	28.50	31.50	1
33	28.20	31.40	34.70	1
36	30.80	34.20	37.80	1
39	33.30	37.10	41.00	1
43	36.80	40.90	45.20	1
47	40.20	44.70	49.40	1

(Value) **Nominal Breakdown Voltage**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T Min.**	**Max.**	**Maximum Reverse Leakage I_R @ V_R (µA)**
51	43.60	48.50	53.60	1
56	47.80	53.20	58.80	1
68	58.10	64.60	71.40	1
82	70.10	77.90	86.10	1
91	77.80	86.50	95.50	1
100	85.50	95.00	105.00	1
110	94.00	105.00	116.00	1
150	128.00	143.00	158.00	1
200	171.00	190.00	210.00	1
220	185.00	209.00	231.00	1
250	214.00	237.00	263.00	1
300	256.00	285.00	315.00	1
350	300.00	332.00	368.00	1
400	342.00	380.00	420.00	1
440	376.00	418.00	462.00	1

Description	**Voltage Range *(Value)* See Chart**	**Digi-Key Part No.**	**Cut Tape Pricing 1**	**10**	**Digi-Key Part No.**	**Tape & Reel Pricing 1,200**
Uni-directional	6.8 ~ 200 220 ~ 440	1.5KE**(Value)**ALFCT-ND 1.5KE**(Value)**ALFCT-ND	.57 .79	5.21 7.28	1.5KE**(Value)**ALFTR-ND 1.5KE**(Value)**ALFTR-ND	219.00/M 306.00/M
Bi-directional	6.8 ~ 200 220 ~ 440	1.5KE**(Value)**CALFCT-ND 1.5KE**(Value)**CALFCT-ND	.62 .87	5.73 8.04	1.5KE**(Value)**CALFTR-ND 1.5KE**(Value)**CALFTR-ND	241.00/M 338.00/M

Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

NEW! 3KP Series – 3000 Watt Axial TVS Diode

The 3KP Series is designed specifically to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events. Marking: Cathode band – positive terminal (Uni-directional only), device code and logo.

SPECIFICATIONS: • Operating Junction and Storage Temperature Range: -55°C ~ 175°C

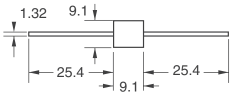

(Value) **Nominal Breakdown Voltage**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T Min.**	**Max.**	**Maximum Reverse Leakage I_R @ V_R (µA)**
20	20.0	22.20	24.50	2
24	24.0	26.70	29.50	2
28	28.0	31.10	34.40	2
30	30.0	33.30	36.80	2
33	33.0	36.70	40.60	2
36	36.0	40.00	44.20	2
43	43.0	47.80	52.80	2
48	48.0	53.30	58.90	2

Description	**Voltage Range *(Value)* See Chart**	**Digi-Key Part No.**	**Cut Tape Pricing 1**	**10**	**100**	**Digi-Key Part No.**	**Tape & Reel Pricing 800**
Unidirectional	20 ~ 48	3KP**(Value)**ACT-ND	1.23	11.28	94.83	3KP**(Value)**ATR-ND	418.40

5KP Series – 5000 Watt Axial TVS Diode

When no problems exist, TVS diodes are invisible to the circuits they're protecting. But when potentially damaging transients occur, the TVS diodes provide high-speed "clamping" to prevent damage - after which they return to their electronically invisible state. Littelfuse TVS diodes are available in industry-standard packages.

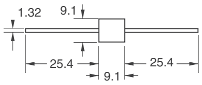

FEATURES: • Glass passivated junction • Low clamping factor • Uni-directional and Bi-directional • 100% surge tested

(Value) **Nominal Breakdown Voltage**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T Min.**	**Max.**	**Maximum Reverse Leakage I_R @ V_R (µA)**
5.0	5.00	6.40	7.00	5000
6.0	6.00	6.67	7.37	5000
6.5	6.50	7.22	7.98	2000
7.0	7.00	7.78	8.60	1000
7.5	7.50	8.33	9.21	250
10	10.00	11.10	12.30	15
12	12.00	13.30	14.70	2
15	15.00	16.70	18.50	2
16	16.00	17.80	19.70	2
18	18.00	20.00	22.10	2
20	20.00	22.20	24.50	2
24	24.00	26.70	29.50	2
26	26.00	28.90	31.90	2
30	30.00	33.30	36.80	2
33	33.00	36.70	40.60	2

(Value) **Nominal Breakdown Voltage**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T Min.**	**Max.**	**Maximum Reverse Leakage I_R @ V_R (µA)**
36	36.00	40.00	44.20	2
40*	40.00	44.40	49.10	2
43	43.00	47.80	52.80	2
48	48.00	53.30	58.90	2
58	58.00	64.40	71.20	2
60	60.00	66.70	73.70	2
70*	70.00	77.00	86.00	2
78	78.00	86.70	95.80	2
90	90.00	100.00	111.00	2
100	100.00	110.00	123.00	2
110	110.00	122.00	135.00	2
130	130.00	144.00	159.00	2
150	150.00	167.00	185.00	2
180	180.00	200.00	221.00	2

Description	**Tol.**	**Voltage Range *(Value)* See Chart**	**Digi-Key Part No.**	**Cut Tape Pricing 1**	**10**	**Digi-Key Part No.**	**Tape & Reel Pricing 800**
Uni-directional	5%	5.0 ~ 180	5KP**(Value)**ALFCT-ND	3.12	28.67	5KP**(Value)**ALFTR-ND*	1064.00
Bi-directional	5%	5.0 ~ 48 58 ~ 180	5KP**(Value)**CALFCT-ND 5KP**(Value)**CALFCT-ND	3.43 5.51	31.53 50.68	5KP**(Value)**CALFTR-ND 5KP**(Value)**CALFTR-ND†	1169.60 1880.00

* 1,000 piece Tape and Reel for values 40 and 70
Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

SMAJ Series – 400 Watt TVS Diode DO-214AC (SMA) Package

FEATURES:
- Glass passivated junction
- J lead construction

SPECIFICATIONS:
- **Voltage Tolerance:** 5%
- **Operating Temperature:** -65°C ~ 150°C
- **High Temperature Soldering:** 260°C for 40 seconds at terminals
- **Plastic Package:** UL94V-0
- **Case:** JEDEC DO-214AC
- **Electrical Specification:** Tested at 25°C

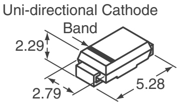

Description	Voltage Range (Value) See Chart	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel Pricing 5,000‡
Uni-directional	5.0 ~ 200	SMAJ**(Value)**ALFCT-ND	.33	3.04	25.52	114.00/M
	220 ~ 440	SMAJ**(Value)**ALFCT-ND	.46	4.24	35.67	160.00/M
Bi-directional	5.0 ~ 51	SMAJ**(Value)**CALFCT-ND	.36	3.35	28.13	126.00/M
	54 ~ 440	SMAJ**(Value)**CALFCT-ND	.51	4.69	39.44	177.00/M

‡ For Tape and Reel part number, change CT-ND to TR-ND.
Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Maximum Reverse Leakage I_R @ V_R (µA)
5.0	5.0	6.40	7.00	800
6.0	6.0	6.67	7.37	800
6.5	6.5	7.22	7.98	500
7.0	7.0	7.78	8.60	200
7.5	7.5	8.33	9.21	100
8.0	8.0	8.89	9.83	50
8.5	8.5	9.44	10.40	20
9.0	9.0	10.00	11.10	10
10	10.0	11.10	12.30	5
11	11.0	12.20	13.50	1
12	12.0	13.30	14.70	1
13	13.0	14.40	15.90	1
14	14.0	15.60	17.20	1
15	15.0	16.70	18.50	1
16	16.0	17.80	19.70	1
17	17.0	18.90	20.90	1
18	18.0	20.00	22.10	1
20	20.0	22.20	24.50	1
22	22.0	24.40	26.90	1
24	24.0	26.70	29.50	1
26	26.0	28.90	31.90	1
28	28.0	31.10	34.40	1
30	30.0	33.30	36.80	1
33	33.0	36.70	40.60	1
36	36.0	40.00	44.20	1
40	40.0	44.40	49.10	1
45	45.0	50.00	55.30	1

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Maximum Reverse Leakage I_R @ V_R (µA)
48	48.0	53.30	58.90	1
51	51.0	56.70	62.70	1
54	54.0	60.00	66.30	1
58	58.0	64.40	71.20	1
60	60.0	66.70	73.70	1
64	64.0	71.10	78.60	1
70	70.0	77.80	86.00	1
75	75.0	83.30	92.10	1
78	78.0	86.70	95.80	1
85	85.0	94.40	104.00	1
90	90.0	100.00	111.00	1
100	100.0	111.00	123.00	1
110	110.0	122.00	135.00	1
120	120.0	133.00	147.00	1
130	130.0	144.00	159.00	1
150	150.0	167.00	185.00	1
160	160.0	178.00	197.00	1
170	170.0	189.00	209.00	1
180	180.0	201.00	222.00	1
200	200.0	224.00	247.00	1
220	220.0	246.00	272.00	1
250	250.0	279.00	309.00	1
300	300.0	335.00	371.00	1
350	350.0	391.00	432.00	1
400	400.0	447.00	494.00	1
440	440.0	492.00	543.00	1

NEW! SACB Series – 500 Watt TVS Diode DO-214AA (SMB) Package

FEATURES: • Glass passivated chip junction • J Lead construction • Very low junction capacitance maximum of 45pF • High temperature soldering: 260°C/40 seconds at terminals

SPECIFICATIONS: • Operating Junction and Storage Temperature Range: -65°C ~ 150°C • Electrical specification: Tested @ 25°C

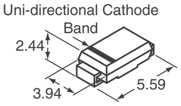

(Value) Nominal Breakdown Voltage	Marking Code	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Max. Reverse Leakage I_R @ V_R (µA)
5.0	SKE	5.0	7.60	10.0	300
12	SLE	12.0	13.30	19.0	5

Description	Voltage Range ***(Value)*** See Chart	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Uni-directional	5.0 ~ 12	SACB**(Value)**CT-ND	.53	4.83	40.60	SACB**(Value)**TR-ND	192.00/M

SMBJ, P6SMB and P6SMBJ Series – 600 Watt TVS Diode DO-214AA (SMB) Package

FEATURES: • Glass passivated junction • J lead construction

SPECIFICATIONS: • **Voltage Tolerance:** 5% • **Operating Temperature:** -65°C ~ 150°C (SMBJ and P6SMB Series); -55°C ~ 150°C (P6SMBJ Series) • **High Temperature Soldering:** 260°C for 40 seconds at terminals (SMBJ and P6SMB Series); 250°C for 10 seconds at terminals (P6SMBJ Series) • **Electrical Specification:** Tested at 25°C

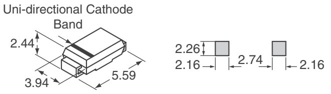

SMBJ Series

(Value) Nominal Break-down Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Maximum Reverse Leakage I_R @ V_R (µA)
5.0	5.0	6.40	7.00	800
6.0	6.0	6.67	7.37	800
6.5	6.5	7.22	7.98	500
7.0	7.0	7.78	8.60	200
7.5	7.5	8.33	9.21	100
8.0	8.0	8.89	9.83	50
8.5	8.5	9.44	10.40	20
9.0	9.0	10.00	11.10	10
10	10.0	11.10	12.30	5
11	11.0	12.20	13.50	1
12	12.0	13.30	14.70	1
13	13.0	14.40	15.90	1
14	14.0	15.60	17.20	1
15	15.0	16.70	18.50	1
16	16.0	17.80	19.70	1
17	17.0	18.90	20.90	1
18	18.0	20.00	22.10	1
20	20.0	22.20	24.50	1
22	22.0	24.40	26.90	1
24	24.0	26.70	29.50	1
26	26.0	28.90	31.90	1
28	28.0	31.10	34.40	1
30	30.0	33.30	36.80	1
33	33.0	36.70	40.60	1
36	36.0	40.00	44.20	1
40	40.0	44.40	49.10	1
43	43.0	47.80	52.80	1

(Value) Nominal Break-down Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Maximum Reverse Leakage I_R @ V_R (µA)
45	45.0	50.00	55.30	1
48	48.0	53.30	58.90	1
51	51.0	56.70	62.70	1
54	54.0	60.00	66.30	1
58	58.0	64.40	71.20	1
60	60.0	66.70	73.70	1
64	64.0	71.10	78.60	1
70	70.0	77.80	86.00	1
75	75.0	83.30	92.10	1
78	78.0	86.70	95.80	1
85	85.0	94.40	104.00	1
90	90.0	100.00	111.00	1
100	100.0	111.00	123.00	1
110	110.0	122.00	135.00	1
120	120.0	133.00	147.00	1
130	130.0	144.00	159.00	1
150	150.0	167.00	185.00	1
160	160.0	178.00	197.00	1
170	170.0	189.00	209.00	1
180	180.0	201.00	222.00	1
200	200.0	224.00	247.00	1
220	220.0	246.00	272.00	1
300	300.0	335.00	371.00	1
350	350.0	391.00	432.00	1
400	400.0	447.00	494.00	1
440	440.0	492.00	543.00	1

P6SMB and P6SMBJ Series

(Value) Nominal Break-down Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Maximum Reverse Leakage I_R @ V_R (µA)
6.8	5.80	6.45	7.14	1000
7.5	6.40	7.13	7.88	500
8.2	7.02	7.79	8.61	200
9.1	7.78	8.65	9.55	50
10	8.55	9.50	10.50	10
11	9.40	10.50	11.60	5
12	10.20	11.40	12.60	5
13	11.10	12.40	13.70	1‡
15	12.80	14.30	15.80	1‡
16	13.60	15.20	16.80	1‡
18	15.30	17.10	18.90	1‡
20	17.10	19.00	21.00	1‡
22	18.80	20.90	23.10	1‡
24	20.50	22.80	25.20	1‡
27	23.10	25.70	28.40	1‡
30	25.60	28.50	31.50	1‡
33	28.20	31.40	34.70	1‡
36	30.80	34.20	37.80	1‡
39	33.30	37.10	41.00	1‡
43	36.80	40.90	45.20	1‡
47	40.20	44.70	49.40	1‡
51	43.60	48.50	53.60	1‡
56	47.80	53.20	58.80	1‡
62	53.00	58.90	65.10	1‡

(Value) Nominal Break-down Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	Maximum Reverse Leakage I_R @ V_R (µA)
68	58.10	64.60	71.40	1‡
75	64.10	71.30	78.80	1‡
82	70.10	77.90	86.10	1‡
91	77.80	86.50	95.50	1‡
100	85.50	95.00	105.00	1‡
110†	94.00	105.00	116.00	1‡
120†	102.00	114.00	126.00	1‡
130	111.00	124.00	137.00	1‡
150	128.00	143.00	158.00	1‡
160†	136.00	152.00	168.00	1‡
170†	145.00	162.00	179.00	1‡
180	154.00	171.00	189.00	1‡
200	171.00	190.00	210.00	1‡
220	185.00	209.00	231.00	1‡
250	214.00	237.00	263.00	1‡
300	256.00	285.00	315.00	1‡
350	300.00	332.00	368.00	1‡
400	342.00	380.00	420.00	1‡
440	376.00	418.00	462.00	1‡
480	408.00	456.00	504.00	1‡
510	434.00	485.00	535.00	1‡
530†	459.00	513.00	567.00	1‡
540†	477.00	503.50	556.50	1‡
550	495.00	522.50	577.50	1‡

Series	Description	Voltage Range ***(Value)*** See Chart	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
SMBJ	Uni-directional TVS	5.0 ~ 200	SMBJ**(Value)**ALFCT-ND	.35	3.21	26.97	SMBJ**(Value)**ALFTR-ND	127.00/M
		220 ~ 440	SMBJ**(Value)**ALFCT-ND	.85	7.80	65.54	SMBJ**(Value)**ALFTR-ND	310.00/M
	Bi-directional TVS	5.0 ~ 200	SMBJ**(Value)**CALFCT-ND	.39	3.55	29.87	SMBJ**(Value)**CALFTR-ND	141.00/M
		220 ~ 440	SMBJ**(Value)**CALFCT-ND	.85	7.80	65.54	SMBJ**(Value)**CALFTR-ND	310.00/M
P6SMB	Uni-directional TVS	6.8 ~ 200	P6SMB**(Value)**ALFCT-ND	.35	3.21	26.97	P6SMB**(Value)**ALFTR-ND	127.00/M
		220 ~ 550	P6SMB**(Value)**ALFCT-ND	.49	4.49	37.70	P6SMB**(Value)**ALFTR-ND	178.00/M
	Bi-directional TVS	6.8 ~ 200	P6SMB**(Value)**CALFCT-ND	.39	3.55	29.87	P6SMB**(Value)**CALFTR-ND	141.00/M
		220 ~ 550	P6SMB**(Value)**CALFCT-ND	.54	4.97	41.76	P6SMB**(Value)**CALFTR-ND	197.00/M
P6SMBJ	Uni-directional TVS	6.8 ~ 200	P6SMBJ**(Value)**ALFCT-ND	.35	3.21	26.97	P6SMBJ**(Value)**ALFTR-ND	127.00/M
		220 ~ 550	P6SMBJ**(Value)**ALFCT-ND	.49	4.49	37.70	P6SMBJ**(Value)**ALFTR-ND	178.00/M
	Bi-directional TVS	6.8 ~ 200	P6SMBJ**(Value)**CALFCT-ND	.39	3.55	29.87	P6SMBJ**(Value)**CALFTR-ND	141.00/M
		220 ~ 550	P6SMBJ**(Value)**CALFCT-ND	.54	4.97	41.76	P6SMBJ**(Value)**CALFTR-ND	197.00/M

† Values not stocked by Digi-Key in the P6SMB series. ‡ 5µA for P6SMBJ Series ***Note:*** Bidirectional type having V_R of 10V and less, the I_R limit is double.

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SMCJ Series – 1500 Watt TVS Diode DO-214AB (SMC) Package

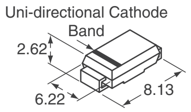

FEATURES: • Glass passivated junction • J lead construction **SPECIFICATIONS:** • **Voltage Tolerance:** 5% • **Operating Temperature:** -65°C ~ 150°C • **High Temperature Soldering:** 260°C for 40 seconds at terminals • **Plastic Package:** UL94V-0 • **Electrical Specification:** Tested at 25°C

(Value) **Nominal Breakdown Voltage**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T**		**Maximum Reverse Leakage I_R @ V_R (µA)**
		Min.	**Max.**	
5.0	5.0	6.40	7.00	800
6.0	6.0	6.67	7.37	800
6.5	6.5	7.22	7.98	500
7.0	7.0	7.78	8.60	200
7.5	7.5	8.33	9.21	100
8.0	8.0	8.89	9.83	50
8.5	8.5	9.44	10.40	20
9.0	9.0	10.00	11.10	10
10	10	11.10	12.30	5
11	11	12.20	13.50	1
12	12	13.30	14.70	1
13	13	14.40	15.90	1
14	14	15.60	17.20	1
15	15	16.70	18.50	1
16	16	17.80	19.70	1
17	17	18.90	20.90	1
18	18	20.00	22.10	1
20	20	22.20	24.50	1
22	22.0	24.40	26.90	1
24	24.0	26.70	29.50	1
26	26.0	28.90	31.90	1
28	28.0	31.10	34.40	1
30	30.0	33.30	36.80	1
33	33.0	36.70	40.60	1
36	36.0	40.00	44.20	1
40	40.0	44.40	49.10	1
45	45.0	50.00	55.30	1
48	48.0	53.30	58.90	1
51	51.0	56.70	62.70	1
54	54.0	60.00	66.30	1
58	58.0	64.40	71.20	1
60	60.0	66.70	73.70	1
64	64.0	71.10	78.60	1
70	70.0	77.80	86.00	1
75	75.0	83.30	92.10	1
78	78.0	86.70	95.80	1
85	85.0	94.40	104.00	1
90	90.0	100.00	111.00	1
100	100.0	111.00	123.00	1
110	110.0	122.00	135.00	1
120	120.0	133.00	147.00	1
130	130.0	144.00	159.00	1
150	150.0	167.00	185.00	1
160	160.0	178.00	197.00	1
170	170.0	189.00	209.00	1
180	180.0	201.00	222.00	1
200	200.0	224.00	247.00	1
220	220.0	246.00	272.00	1
250	250.0	279.00	309.00	1
300	300.0	335.00	371.00	1
350	350.0	391.00	432.00	1
400	400.0	447.00	494.00	1
440	440.0	492.00	543.00	1

Description	**Voltage Range *(Value)* See Chart**	**Digi-Key Part No.**	**Cut Tape Pricing 1**	**10**	**100**	**Digi-Key Part No.**	**Tape and Reel Pricing 3,000**
Uni-directional	5.0 ~ 200	SMCJ**(Value)**ALFCT-ND	.61	5.62	47.27	SMCJ**(Value)**ALFTR-ND	223.00/M
	220 ~ 440	SMCJ**(Value)**ALFCT-ND	.94	8.63	72.50	SMCJ**(Value)**ALFTR-ND	343.00/M
Bi-directional	5.0 ~ 200	SMCJ**(Value)**CALFCT-ND	.67	6.14	51.62	SMCJ**(Value)**CALFTR-ND	244.00/M
	220 ~ 440	SMCJ**(Value)**CALFCT-ND	.94	8.63	72.50	SMCJ**(Value)**CALFTR-ND	343.00/M

Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

NEW! 1.5SMC Series – 1500 Watt TVS Diode DO-214AB (SMC) Package

FEATURES:
- Glass passivated chip junction
- J lead construction
- High temperature soldering: 260°C/40 seconds at terminals
- Matte tin lead-free plated

SPECIFICATIONS:
- Operating Junction and Storage Temperature Range: -65°C ~ 150°C
- Voltage tolerance: 5%
- Electrical specification tested at 25°C

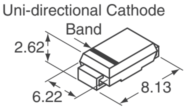

(Value) **Nominal Breakdown Voltage**	**Marking Code Uni**	**Bi**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T Min.**	**Max.**	**Maximum Reverse Leakage I_R @ V_R (µA)**
6.8	6V8A	6V8C	5.80	6.45	7.14	1000
12	12A	12C	10.20	11.40	12.60	5
18	18A	18C	15.30	17.10	18.90	1
20	20A	20C	17.10	19.00	21.00	1
24	24A	24C	20.50	22.80	25.20	1
27	27A	27C	23.10	25.70	28.40	1
30	30A	30C	25.60	28.50	31.50	1
33	33A	33C	28.20	31.40	34.70	1
36	36A	36C	30.80	34.20	37.80	1
39	39A	39C	33.30	37.10	41.00	1

Description	**Voltage Range *(Value)* See Chart**	**Digi-Key Part No.**	**Cut Tape Pricing 1**	**10**	**100**	**Digi-Key Part No.**	**Tape and Reel Pricing 3,000**
Uni-directional	6.8 ~ 39	1.5SMC**(Value)**ACT-ND	.47	4.31	36.25	1.5SMC**(Value)**ATR-ND	171.00/M
Bi-directional	6.8 ~ 39	1.5SMC**(Value)**CACT-ND	.51	4.69	39.44	1.5SMC**(Value)**CATR-ND	186.00/M

Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

NEW! SMDJ Series – 3000 Watt TVS Diode DO-214AB (SMC) Package

FEATURES:
- Glass passivated chip junction
- J lead construction
- High temperature soldering: 260°C/40 seconds at terminals
- Matte tin lead-free plated

SPECIFICATIONS:
- Operating Junction and Storage Temperature Range: -65°C ~ 150°C
- Voltage tolerance: 5%

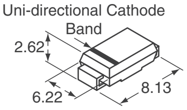

(Value) **Nominal Breakdown Voltage**	**Marking Code Uni**	**Bi**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T Min.**	**Max.**	**Maximum Reverse Leakage I_R @ V_R (µA)**
10	PDX	DDX	10.0	11.10	12.30	5
12	PEE	DEE	12.0	13.30	14.70	2
15	PEM	DEM	15.0	16.70	18.50	2
17	PER	DER	17.0	18.90	20.90	2
18	PET	DET	18.0	20.00	22.10	2
20	PEV	DEV	20.0	22.20	24.50	2
24	PEZ	DEZ	24.0	26.70	29.50	2
28	PFG	DFG	28.0	31.10	34.40	2
30	PFK	DFK	30.0	33.30	36.80	2
33	PFM	DFM	33.0	36.70	40.60	2
36	PFP	DFP	36.0	40.00	44.20	2

Description	**Voltage Range *(Value)* See Chart**	**Digi-Key Part No.**	**Cut Tape Pricing 1**	**10**	**100**	**Digi-Key Part No.**	**Tape and Reel Pricing 3,000**
Uni-directional	10 ~ 36	SMDJ**(Value)**ACT-ND	.83	7.59	63.80	SMDJ**(Value)**ATR-ND	301.00/M
Bi-directional	10 ~ 17	SMDJ**(Value)**CACT-ND	.90	8.28	69.60	SMDJ**(Value)**CATR-ND	329.00/M
	18 ~ 36	SMDJ**(Value)**CACT-ND	.98	8.97	75.40	SMDJ**(Value)**CATR-ND	356.00/M

Note: Bidirectional type having V_R of 10V and less, the I_R limit is double.

NEW! 5.0 SMDJ Series – 5000 Watt TVS Diode DO-214AB (SMC) Package

FEATURES:
- Glass passivated chip junction
- J lead construction
- High temperature soldering: 260°C/40 seconds at terminals
- Matte tin lead-free plated

SPECIFICATIONS:
- Operating Junction and Storage Temperature Range: -65°C ~ 150°C
- Voltage tolerance: 5%
- Electrical specification tested at 25°C
- UL approved 20V ~ 170V only

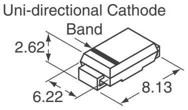

(Value) **Nominal Breakdown Voltage**	**Marking Code Uni**	**Reverse Stand Off Voltage V_R (V)**	**Breakdown Voltage V_{BR} (V) @ I_T Min.**	**Max.**	**Maximum Reverse Leakage I_R @ V_R (µA)**
12	5PEP	12.0	13.30	14.70	800
14	5PER	14.0	15.60	17.20	200
15	5PES	15.0	16.70	18.50	100
16	5PET	16.0	17.80	19.70	50
18	5PEV	18.0	20.00	22.10	10
24	5PEZ	24.0	26.70	29.50	5

Description	**Voltage Range *(Value)* See Chart**	**Digi-Key Part No.**	**Cut Tape Pricing 1**	**10**	**100**	**Digi-Key Part No.**	**Tape and Reel Pricing 3,000**
Uni-directional	12 ~ 24	5.0SMDJ**(Value)**ACT-ND	1.63	14.97	125.86	5.0SMDJ**(Value)**ATR-ND	595.00/M

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TVS Diode Arrays

Features: • Low Capacitance - 2.5pF • ESD Protection • Surge Protection **Applications**: • TVS Diode Array for High Speed Data ports • Personal Digital Assistants (PDAs)

Fig. 1

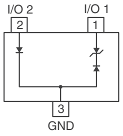

Fig. 2

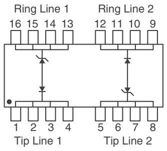

Fig. 3

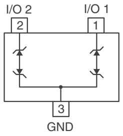

Fig.	Working Voltage	Breakdown Volt. @ 1mA	Leakage Current @ V_{WM} (µA)	Cap. @ 0V, 1MHz (pF)	Clamping Voltage	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Bourns Part No.
1	2.8	3	1	2.5	3.9 @ 2A	CDSOT23-SLVU2.8CT-ND	1.17	1.08	.79	CDSOT23-SLVU2.8TR-ND	3,000	630.00/M	CDSOT23-SLVU2.8
2	6	8	25	50	15 @ 100A	CDWBS16-PLC01-6CT-ND	5.40	3.90	3.20	CDWBS16-PLC01-6TR-ND	1,000	2800.00	CDWBS16-PLC01-6
3	7/12	7.5/13.3	20/1	75	11 @ 1A	CDSOT23-SM712CT-ND	1.17	1.08	.79	CDSOT23-SM712TR-ND	3,000	630.00/M	CDSOT23-SM712

Steering/TVS Diode Arrays

Steering/TVS Diode Arrays for External Parts of Portable devices/Telecom applications: • Provides ESD, EFT and surge protection for the external ports of portable electronic devices • Protects Vcc and two data lines.

Low Capacitance Steering Diode/TVS Diode Array Combo: Will meet IEC 61000-4-2 (ESD), IEC 61000-4-4 (EFT) and IEC 6100-4-5 (Surge) requirements. **FEATURES**: • Protects 2 lines and 4 lines • ESD Protection • Low capacitance 8pF **APPLICATIONS**: Telecom Hand Held Electronics

Fig. 1

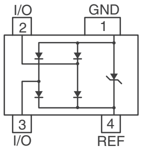

Fig. 2

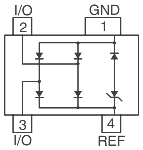

Fig. 3

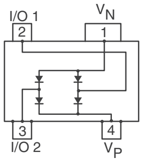

Fig. 4

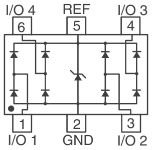

Fig. 5

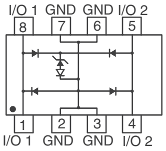

Fig. 6

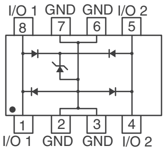

Fig. 7

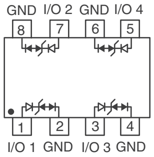

Fig. 8

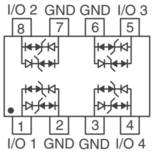

Fig. 9

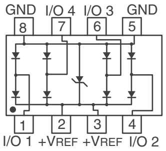

Fig.	Working Voltage	Breakdown Volt. @ 1mA	Leakage Current @ V_{WM} (µA)	Capacitance @ 0V, 1MHz	Clamping Voltage	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Bourns Part No.
Steering/TVS Diode Arrays for External Parts of Portable Devices/Telecom Applications													
1	5	6	5	10	9.8 @ 1A	CD143A-SR05CT-ND	1.20	.75	.56	CD143A-SR05TR-ND	3,000	420.00/M	CD143A-SR05
1	12	13.3	1	10	19 @ 1A	CD143A-SR12CT-ND	1.20	.75	.56	CD143A-SR12TR-ND	3,000	420.00/M	CD143A-SR12
2	2.8	3	1	4.5	5 @ 1A	CD143A-SR2.8CT-ND	1.20	.75	.56	CD143A-SR2.8TR-ND	3,000	420.00/M	CD143A-SR2.8
2	3.3	3.5	1	4.5	7 @ 1A	CD143A-SR3.3CT-ND	1.20	.75	.56	CD143A-SR3.3TR-ND	3,000	420.00/M	CD143A-SR3.3
3	70	85	1	10	1.5 @ 1A	CD143A-SR70CT-ND	1.05	.75	.56	CD143A-SR70TR-ND	3,000	420.00/M	CD143A-SR70
4	5	6	5	3.5	12 @ 1A	CDSOT23-SRV05-4CT-ND	1.17	1.08	.79	CDSOT23-SRV05-4TR-ND	3,000	630.00/M	CDSOT23-SRV05-4
Low Capacitance Steering Diode/TVS Diode Array Combo													
5	3	3.3	2	20pF	18 @ 100A	CDNBS08-PLC03-3.3CT-ND	2.70	2.40	1.96	CDNBS08-PLC03-3.3TR-ND	2,500	1620.00/M	CDNBS08-PLC03-3.3
6	6	6.8	25	16pF	20 @ 100A	CDNBS08-PLC03-6CT-ND	2.40	2.16	1.96	CDNBS08-PLC03-6TR-ND	2,500	1680.00/M	CDNBS08-PLC03-6
7	2.8	3	1	6pF	8.5 @ 5A	CDNBS08-SLVU2.8-4CT-ND	2.04	1.35	1.04	CDNBS08-SLVU2.8-4TR-ND	2,500	840.00/M	CDNBS08-SLVU2.8-4
8	2.8	3	1	6pF	8.5 @ 5A	CDNBS08-SLVU2.8-8CT-ND	3.60	2.40	1.96	CDNBS08-SLVU2.8-8TR-ND	2,500	1680.00/M	CDNBS08-SLVU2.8-8
9	3.3	4	125	15pF	10.9 @ 43A	CDNBS08-SRDA3.3-4CT-ND	2.04	1.35	1.04	CDNBS08-SRDA3.3-4TR-ND	2,500	840.00/M	CDNBS08-SRDA3.3-4
9	5	6	20	15pF	13.5 @ 42A	CDNBS08-SRDA05-4CT-ND	2.04	1.35	1.04	CDNBS08-SRDA05-4TR-ND	2,500	840.00/M	CDNBS08-SRDA05-4

TISP4CxxxH3BJ Series – Bidirectional Thyristor Overvoltage Protector

This device is designed to limit overvoltages on the telephone line. Overvoltages are normally caused by A.C. power systems or lightning flash disturbances which are induced or conducted on to the telephone line. A single device provides 2-point protection and is typically used for the protection of 2-wire telecommunication equipment (e.g. between the Ring and Tip wires for telephones and modems). Combinations of devices can be used for multi-point protection (e.g. 3-point protection between Ring, Tip and Ground). These devices are housed in a surface mount SMB (DO-214AA) package.

The protector consists of a symmetrical voltage-triggered bidirectional thyristor. Overvoltages are initially clipped by breakdown clamping until the voltage rises to the breakover level, which causes the device to crowbar into a low-voltage on state. This low-voltage on state causes the current resulting from the overvoltage to be safely diverted through the device. The high crowbar holding current prevents D.C. latchup as the diverted current subsides.

Dimensions in Inch (mm)

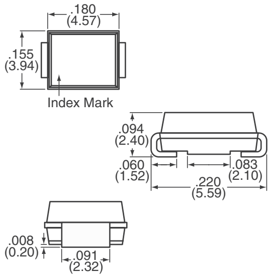

Protection Voltage $V_{(BO)}$ V	V_{DRM} V	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 3,000	Bourns Part No.
115	90	TISP4C115H3BJR-SCT-ND	.98	.60	.44	TISP4C115H3BJR-STR-ND	334.00/M	TISP4C115H3BJR-S
125	100	TISP4C125H3BJR-SCT-ND	.98	.60	.44	TISP4C125H3BJR-STR-ND	334.00/M	TISP4C125H3BJR-S
145	120	TISP4C145H3BJR-SCT-ND	.98	.60	.44	TISP4C145H3BJR-STR-ND	334.00/M	TISP4C145H3BJR-S
180	145	TISP4C180H3BJR-SCT-ND	.98	.60	.44	TISP4C180H3BJR-STR-ND	334.00/M	TISP4C180H3BJR-S
220	180	TISP4C220H3BJR-SCT-ND	.98	.60	.44	TISP4C220H3BJR-STR-ND	334.00/M	TISP4C220H3BJR-S
250	190	TISP4C250H3BJR-SCT-ND	.98	.60	.44	TISP4C250H3BJR-STR-ND	334.00/M	TISP4C250H3BJR-S
290	220	TISP4C290H3BJR-SCT-ND	.98	.60	.44	TISP4C290H3BJR-STR-ND	334.00/M	TISP4C290H3BJR-S
350	275	TISP4C350H3BJR-SCT-ND	.98	.60	.44	TISP4C350H3BJR-STR-ND	334.00/M	TISP4C350H3BJR-S
395	320	TISP4C395H3BJR-SCT-ND	.98	.60	.44	TISP4C395H3BJR-STR-ND	334.00/M	TISP4C395H3BJR-S

Integrated Complementary Buffered-Gate SCRS for Dual Polarity SLIC Overvoltage Protection

High Performance Protection for SLICs with +ve and -ve battery supplies

Features:
- Wide -110V to 110V Programming Range
- Low 5mA maximum Gate Triggering Current
- Dynamic Protection Performance Specified for International Surge Waveshapes
- 8-SOIC Package

Applications Include:
- Wireless Local Loop
- Access Equipment
- Regenerated POTS
- VOIP Applications

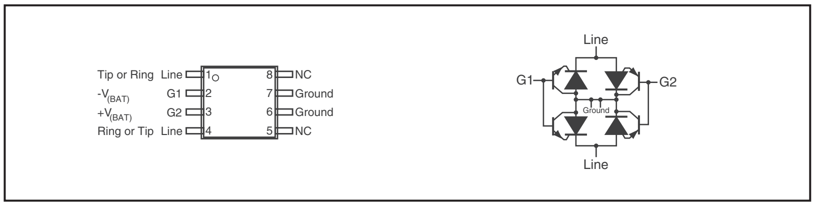

Protection Voltage $V_{(BO)}$ (V)	V_{DRM} V_{G1}	V_{G2}	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 2,000	Bourns Part No.
-110 ~ 110	-120	120	TISP9110LDMR-SCT-ND	2.44	1.65	1.28	TISP9110LDMR-STR-ND	1050.00/M	TISP9110LDMR-S

Complementary Buffered-Gate SCRS for Dual Polarity SLIC Overvoltage Protection

Fig. 1

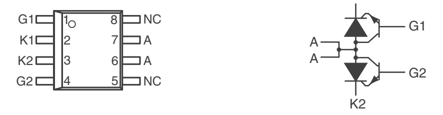

Fig. 2

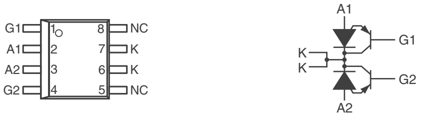

TISP8210MD BUFFERED P-GATE SCR DUAL: Negative Overvoltage Protector: • Wide 0 to -110V Programming Range • Low +5mA Maximum Gate Triggering Current • High -150mA Minimum Holding Current

TISP8211MD BUFFERED N-GATE SCR DUAL: Positive Overvoltage Protector: • Wide 0 to 110V Programming Range • Low -5mA Maximum Gate Triggering Current • +20mA Minimum Holding Current Package: 8-SOIC

Fig.	Protection Voltage $V_{(BO)}$ (V)	V_{DRM}	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 2,500	Bourns Part No.
1	0 ~ -110	-120	TISP8210MDR-SCT-ND	1.37	.87	.65	TISP8210MDR-STR-ND	513.00/M	TISP8210MDR-S
2	0 ~ 110	120	TISP8211MDR-SCT-ND	1.37	.87	.65	TISP8211MDR-STR-ND	513.00/M	TISP8211MDR-S

Forward-Conducting P-Gate Thyristors Programmable Overvoltage Protectors

Fig. 1

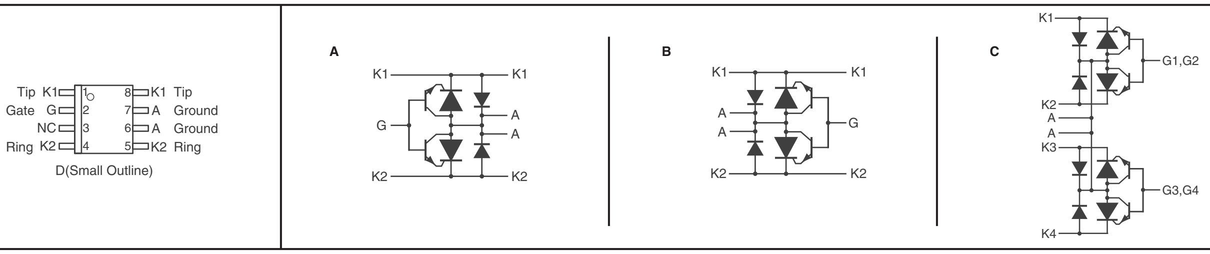

DUAL FORWARD-CONDUCTING P-GATE THYRISTORS, PROGRAMMABLE OVERVOLTAGE PROTECTORS:
- TISP61089 Gated Protector Series: Dual Voltage-Tracking Protectors: • '61089 for Battery Voltages to: -75V • '61089A for Battery Voltages to: -100V • Low Gate Triggering Current: <5mA • High Holding Current: >150mA
- TISP61089B High Voltage Ringing SLIC Protector: Dual Voltage-Programmable Protectors: • Supports Battery Voltages Down to: -155V • Low Gate Triggering Current: <5mA Maximum • High Holding Current: >150mA Minimum
- TISP61089HDM Overvoltage Protector: Dual Voltage-Programmable SLIC Protector: • Supports Battery Voltages Down to -155V • Low Gate Triggering Current: <15mA Maximum • High Holding Current: >150mA Minimum

QUAD FORWARD-CONDUCTING P-GATE THYRISTORS, PROGRAMMABLE OVERVOLTAGE PROTECTORS
- TISP6NTP2A Programmable Protector: Independent Overvoltage Protection for Two SLICs in Short Loop Applications: • Wide 0 ~ -90V Programming Range • Low 5mA Maximum Gate Triggering Current • High 150mA Minimum (85°C) Holding Current • Specified 1.2/50 and 0.5/700 Limiting Voltage • Full -40°C ~ 80°C Temperature Range
- TISP6NTP2C High Voltage Ringing SLIC Protector: Independent Tracking Overvoltage Protection for Two SLICs: • Dual Voltage-Programmable Protectors • Supports Battery Voltages Down to -155V • Low 5mA Maximum Gate Triggering Current • High 150mA Minimum (70°C) Holding Current • Specified 2/10 Limiting Voltage • Small Outline Surface Mount Package • Full 0°C ~ 70°C Temperature Range

Fig.	Protection Voltage $V_{(BO)}$ (V)	V_{DRM}	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Bourns Part No.
1A	0 ~ -85	-100	TISP61089DR-SCT-ND	1.55	.97	.74	TISP61089DR-STR-ND	2,500	588.00/M	TISP61089DR-S
	0 ~ -120	-120	TISP61089ADR-SCT-ND	1.55	.97	.74	TISP61089ADR-STR-ND	2,500	588.00/M	TISP61089ADR-S
	0 ~ -155	-170	TISP61089HDMR-SCT-ND	3.45	2.30	1.88	TISP61089HDMR-STR-ND	2,000	1581.00/M	TISP61089HDMR-S
1B	0 ~ -170	-170	TISP61089BDR-SCT-ND	1.55	.97	.74	TISP61089BDR-STR-ND	2,500	588.00/M	TISP61089BDR-S
1C	0 ~ -90	-100	TISP6NTP2ADR-SCT-ND	2.04	1.32	1.04	TISP6NTP2ADR-STR-ND	2,500	840.00/M	TISP6NTP2ADR-S
	0 ~ -170	-170	TISP6NTP2CDR-SCT-ND	2.04	1.32	1.02	TISP6NTP2CDR-STR-ND	2,500	840.00/M	TISP6NTP2CDR-S

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ON Semiconductor™

Transient Voltage Suppressors

Surface Mount

ON Semiconductor's standard TVS comprise the largest inventoried line in the industry. Continuous development of improved manufacturing techniques have resulted in computerized diffusion and test, as well as critical process controls learned from surface-sensitive MOS fabrication. The resulting higher yields have lowered the factory costs.

Specifications: SOT-23: • Allows either two separate unidirectional configurations or a single bidirectional configuration • Maximum clamping voltage @ peak pulse current • Flammability rating UL 94V-O

POWERMITE®: • Peak power: 200W @ 1ms • Maximum clamp voltage @ peak pulse current • Low leakage • Response time is typically < 1ns • Integral heat sink/locking tabs • Full metallic bottom eliminates flux entrapment • Cathode indicated by polarity band • Pb-Free package **SMA:** • Peak power: 400W @1ms • Response time is typically <1ns **Mechanical Characteristics:** • **Case:** Void-free, transfer molded, thermosetting plastic case • **Finish:** Corrosion resistant finish, easily solderable • **Maximum case temperature for soldering purposes:** 260°C for 10 seconds

Dimensions in mm

SOT-23

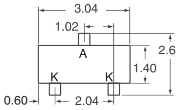

POWERMITE®

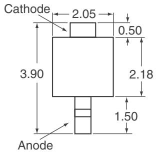

SOD-123FL

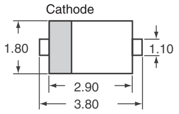

SMA

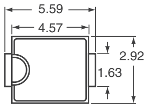

SMB

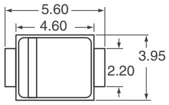

Package	Watts	Breakdown Voltage V_{BR} Min.	Nom.	Max.	V_{RWM} Min. (V)	I_R @ V_{RWM} (µA)	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Digi-Key Part No.	Tape and Reel Qty.	Pricing
SOT-23	24	5.32	5.6	5.88	3	5	MMBZ5V6ALT1GOSCT-ND◆	1.72	11.18	19.35	MMBZ5V6ALT1GOSTR-ND◆	3,000	40.00/M
	24	5.89	6.2	6.51	3	0.5	MMBZ6V2ALT1GOSCT-ND◆	1.72	11.18	19.35	MMBZ6V2ALT1GOSTR-ND◆	3,000	40.00/M
	24	6.46	6.8	7.14	4.5	0.5	MMBZ6V8ALT1GOSCT-ND◆	1.72	11.18	19.35	MMBZ6V8ALT1GOSTR-ND◆	3,000	40.00/M
	40	14.25	15	15.75	12	0.05	MMBZ15VALT1GOSCT-ND◆	1.72	11.18	19.35	MMBZ15VALT1GOSTR-ND◆	3,000	40.00/M
	40	14.3	15	15.8	12.8	0.1	MMBZ15VDLT1GOSCT-ND◆	1.72	11.18	19.35	MMBZ15VDLT1GOSTR-ND◆	3,000	40.00/M
	40	17.10	18	18.90	14.5	50	MMBZ18VALT1GOSCT-ND◆	1.72	11.18	19.35	MMBZ18VALT1GOSTR-ND◆	3,000	40.00/M
	40	19.00	20	21.00	17	0.05	MMBZ20VALT1GOSCT-ND◆	1.72	11.18	19.35	MMBZ20VALT1GOSTR-ND◆	3,000	40.00/M
	40	25.65	27	28.35	22	0.05	MMBZ27VCLT1GOSCT-ND◆	1.72	11.18	19.35	MMBZ27VCLT1GOSTR-ND◆	3,000	40.00/M
	40	31.35	33	34.65	26	0.05	MMBZ33VALT1GOSCT-ND◆	1.72	11.18	19.35	MMBZ33VALT1GOSTR-ND◆	3,000	40.00/M
POWERMITE	200	6.4	6.7	7.0	5	800	1PMT5.0AT1GOSCT-ND◆	4.27	30.74	57.65	1PMT5.0AT1GOSTR-ND◆	3,000	145.00/M
	200	13.3	14.0	14.7	12	5.0	1PMT12AT1GOSCT-ND◆	4.27	30.74	57.65	1PMT12AT1GOSTR-ND◆	3,000	145.00/M
SOD-123FL	200	36.7	38.7	40.6	33	1.0	SMF33AT1GOSCT-ND◆	3.60	27.00	54.00	SMF33AT1GOSTR-ND◆	3,000	135.00/M
Uni-Directional													
SMA	400	6.4	6.7	7.0	5	400	1SMA5.0AT3GOSCT-ND◆	3.71	26.09	47.44	1SMA5.0AT3GOSTR-ND◆	5,000	101.00/M
	400	36.7	38.65	40.6	33	2.5	1SMA33AT3OSCT-ND	7.67	57.51	122.48	1SMA33AT3OSTR-ND	5,000	216.00/M
	400	36.7	38.65	40.6	33	2.5	1SMA33AT3GOSCT-ND◆	3.71	26.09	47.44	1SMA33AT3GOSTR-ND◆	5,000	101.00/M
SMB	600	12.4	13.05	13.7	11.1	5	P6SMB13AT3GOSCT-ND◆	3.33	23.98	44.96	P6SMB13AT3GOSTR-ND◆	2,500	113.00/M
	600	31.4	33.05	34.7	28.2	5	P6SMB33AT3GOSCT-ND◆	3.33	23.98	44.96	P6SMB33AT3GOSTR-ND◆	2,500	113.00/M
Bi-Directional — RoHS Compliant													
SMA	400	11.1	11.69	12.27	10	2.5	1SMA10CAT3GOSCT-ND	3.45	24.80	46.51	1SMA10CAT3GOSTR-ND	5,000	110.00/M
	400	16.7	17.58	18.46	15	2.5	1SMA15CAT3GOSCT-ND	3.45	24.80	46.51	1SMA15CAT3GOSTR-ND	5,000	110.00/M
	400	36.7	38.63	40.56	33	2.5	1SMA33CAT3GOSCT-ND	3.45	24.80	46.51	1SMA33CAT3GOSTR-ND	5,000	110.00/M

◆ ***RoHS Compliant***

Axial

Specifications: Mini-MOSORB™: • Working Peak Reverse Voltage Range — 5V ~ 170V • Peak Power — 500 Watts @ 1ms • Low Leakage < 1µA above 8.5V • Response Time is Typically < 1ns **Surmetic™:** • Peak Power — 600 Watts @ 1ms • Low Leakage <5µA above 10V • Response Time is Typically <5µA 1ns
Mechanical Characteristics: • **Case:** Thermosetting plastic • **Finish:** Corrosion resistant • **Polarity:** Cathode indicated by polarity band • **Mounting Position:** Any

Mini-MOSORB™

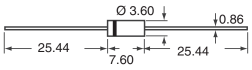

Surmetic™

Dim. in mm

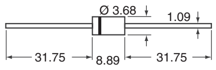

Package	Watts	Breakdown Voltage V_{BR} Minimum	Nominal	Maximum	V_{RWM} Minimum (V)	I_R @ V_{RWM} (µA)	Digi-Key Part No.	Pricing 1	10	100	250	Tape and Reel† Qty.	Pricing
Uni-Directional													
Mini-MOSORB™	500	6.4	6.7	7	5	600	SA5.0ARLGOSCT-ND	.54	4.16	29.92	56.09	5,000	133.00/M
		26.7	28.1	29.5	24	1	SA24AGOS-ND	.54	4.16	29.92	56.09	—	—
Surmetic™	600	6.45	6.8	7.14	5.8	1000	P6KE6.8AGOS-ND	.50	3.86	27.76	52.04	—	—
		6.45	6.8	7.14	5.8	1000	P6KE6.8ARLGOSCT-ND	.50	3.86	27.76	52.04	4,000	131.00/M
		17.1	18	18.9	15.3	5	P6KE18ARLGOSCT-ND	—	3.86	27.76	52.04	4,000	131.00/M
		37.1	39	41	33.3	5	P6KE39AGOS-ND	.50	3.86	27.76	52.04	—	—

† For Tape and Reel part number, change CT-ND to TR-ND.

Overvoltage Transient Suppressor

Mechanical Characteristics: • **Case:** Epoxy, molded • **Weight:** 2.5 Grams (approximate) • **Finish:** All external surfaces corrosion resistant and terminal leads are readily solderable • **Maximum lead temperature for soldering purposes:** 350°C 3/8" from case for 10 seconds at 5 pounds tension • **Polarity:** Indicated by diode symbol or cathode band • **Marking:** MR2535L

Dimensions in mm

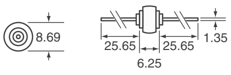

V_{RWM} (V)	I_O (A)	I_{FSM} (A)	V_F (V)	Digi-Key Part No.	Cut Tape Pricing 10	100	250
20	6	600	1.1	MR2535LRLGOSCT-ND	14.24	119.60	249.16

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Transient Voltage Suppressors

Transil™ Series

Dimensions in mm

Fig. 1 — DO-201, R6

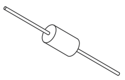

Fig. 2 — DO-15

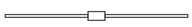

Fig. 3 — SMA

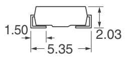

Fig. 4 — SMB

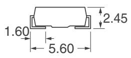

Fig. 5 — SMC

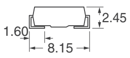

Fig. 6 — SOT-23

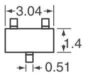

Fig. 7 — 8-SOIC

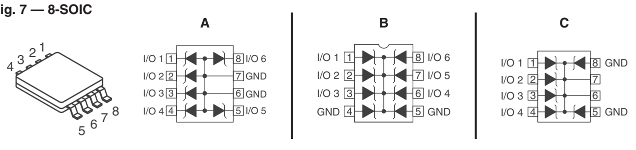

Fig. 8 — Flip Chip

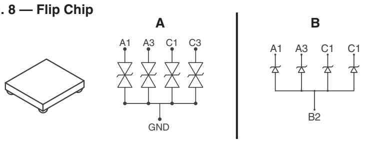

Fig. 9 — SOT23-6

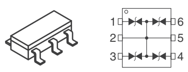

Fig. 10 — SOT-665

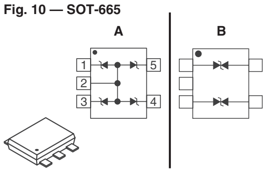

Fig. 11 — SOT-666IP

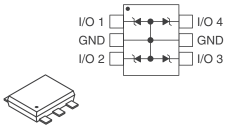

Fig. 12 — SOD-882

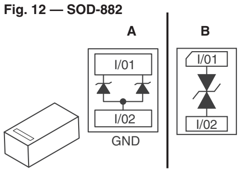

Fig. 13 — SOT-883

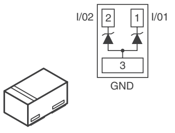

Fig. 14 — 6-QFN

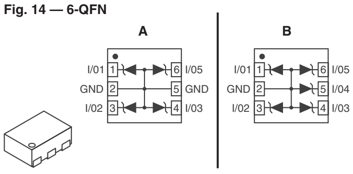

Fig.	P_W (W)	Breakdown Voltage			V_{RM} (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
		Minimum	Nominal	Maximum			1	10	100		Qty.	Pricing	
Bi-Directional													
1	1500	380	400	420	342	497-2909-1-ND◆	.90	7.20	54.00	497-2909-3-ND◆†	600	222.00	1.5KE400CA
2	600	53.2	—	—	47.8	497-4188-1-ND◆	.39	3.00	21.60	497-4188-2-ND◆	6,000	96.00/M	BZW04-48RL
		44.7	47	49.4	40.2	497-4288-1-ND◆	.55	4.25	30.60	497-4288-2-ND◆	6,000	136.00/M	P6KE47CARL
		143	150	158	128	497-4285-1-ND◆	.50	4.00	30.00	497-4285-2-ND◆	6,000	140.00/M	P6KE150CARL
		237	250	263	213	497-4619-1-ND◆	.50	4.00	30.00	497-4619-2-ND◆	6,000	140.00/M	P6KE250CARL
3	400	13.3	—	—	12	497-2996-1-ND◆	.55	4.40	33.00	497-2996-2-ND◆	5,000	154.00/M	SMAJ12CA-TR
		16.7	—	—	15	497-2997-1-ND◆	.50	4.00	30.00	497-2997-2-ND◆	5,000	140.00/M	SMAJ15CA-TR
		31.1	—	—	28	497-4620-1-ND◆	.55	4.40	33.00	497-4620-2-ND◆	5,000	154.00/M	SMAJ28CA-TR
		36.7	—	—	33	497-2998-1-ND◆	.65	5.00	36.00	497-2998-2-ND◆	5,000	160.00/M	SMAJ33CA-TR
		44.4	—	—	40	497-3718-1-ND◆	.55	4.25	30.60	497-3718-2-ND◆	5,000	136.00/M	SMAJ40CA-TR
	600	77.8	—	—	70	497-4291-1-ND◆	.50	4.00	30.00	497-4291-2-ND◆	5,000	140.00/M	SMAJ70CA-TR
		6.4	6.74	7.07	5	497-5939-1-ND◆	.50	4.00	30.00	497-5939-2-ND◆	5,000	140.00/M	SMA6J5.0CA-TR
		6.7	7.05	7.41	6	497-5943-1-ND◆	.50	4.00	30.00	497-5943-2-ND◆	5,000	140.00/M	SMA6J6.0CA-TR
		7.2	7.58	7.96	6.5	497-5945-1-ND◆	.50	4.00	30.00	497-5945-2-ND◆	5,000	140.00/M	SMA6J6.5CA-TR
		9.4	9.9	10.4	8.5	497-5949-1-ND◆	.50	4.00	30.00	497-5949-2-ND◆	5,000	140.00/M	SMA6J8.5CA-TR
		11.1	11.7	12.3	10	497-5916-1-ND◆	.50	4.00	30.00	—	—	—	SMAJ10CA-TR
		13.3	14.0	14.7	12	497-5918-1-ND◆	.50	4.00	30.00	497-5918-2-ND◆	5,000	140.00/M	SMA6J12CA-TR
		14.4	15.2	15.9	13	497-5920-1-ND◆	.50	4.00	30.00	497-5920-2-ND◆	5,000	140.00/M	SMA6J13CA-TR
		16.7	17.6	18.5	15	497-5922-1-ND◆	.50	4.00	30.00	497-5922-2-ND◆	5,000	140.00/M	SMA6J15CA-TR
		20.0	21.1	22.1	18	497-5924-1-ND◆	.50	4.00	30.00	497-5924-2-ND◆	5,000	140.00/M	SMA6J18CA-TR
		22.2	23.4	24.5	20	497-5926-1-ND◆	.50	4.00	30.00	497-5926-2-ND◆	5,000	140.00/M	SMA6J20CA-TR
		26.7	28.1	29.5	24	497-5928-1-ND◆	.50	4.00	30.00	497-5928-2-ND◆	5,000	140.00/M	SMA6J24CA-TR
		28.9	30.4	31.9	26	497-5930-1-ND◆	.50	4.00	30.00	497-5930-2-ND◆	5,000	140.00/M	SMA6J26CA-TR
		36.7	38.6	40.6	33	497-5933-1-ND◆	.50	4.00	30.00	497-5933-2-ND◆	5,000	140.00/M	SMA6J33CA-TR
		44.4	46.7	49.1	40	497-5935-1-ND◆	.50	4.00	30.00	497-5935-2-ND◆	5,000	140.00/M	SMA6J40CA-TR
		53.3	56.1	58.9	48	497-5937-1-ND◆	.50	4.00	30.00	497-5937-2-ND◆	5,000	140.00/M	SMA6J48CA-TR
		64.4	67.8	71.2	58	497-5941-1-ND◆	.50	4.00	30.00	497-5941-2-ND◆	5,000	140.00/M	SMA6J58CA-TR
		77.8	81.9	86.0	70	497-5947-1-ND◆	.50	4.00	30.00	497-5947-2-ND◆	5,000	140.00/M	SMA6J70CA-TR
4	600	24.4	—	—	22	497-5725-1-ND◆	.45	3.60	27.00	497-5725-2-ND◆	2,500	135.00/M	SMBJ22CA-TR
		—	—	35	22	497-3719-1-ND◆	1.08	7.80	60.00	497-3719-2-ND◆	2,500	342.00/M	SMP100-LC-25
		—	—	15	6	497-3721-1-ND◆	1.43	12.35	95.00	497-3721-2-ND◆	2,500	505.00/M	SMP75-8
		—	—	15	6	497-3720-1-ND◆	1.31	11.38	87.50	497-3720-2-ND◆	2,500	466.00/M	SMP100-LC-8
		—	—	133	90	497-3722-1-ND	.95	7.56	56.70	497-3722-2-ND	2,500	299.26/M	SMTPA100
		—	—	240	162	497-3723-1-ND	.86	6.84	51.30	497-3723-2-ND	2,500	271.00/M	SMTPA180
		—	—	360	243	497-3724-1-ND◆	.99	7.92	55.00	497-3724-2-ND◆	2,500	314.00/M	SMTPA270
		6.45	6.8	7.14	5.8	497-2995-1-ND◆	.55	3.96	29.70	497-2995-2-ND◆	2,500	165.00/M	SM6T6V8CA
		14.3	15	15.8	12.8	497-2994-1-ND◆	.55	4.40	33.00	497-2994-2-ND◆	2,500	165.00/M	SM6T15CA
		17.1	18	18.9	15.3	497-3717-1-ND◆	.55	4.40	33.00	497-3717-2-ND◆	2,500	165.00/M	SM6T18CA
		20.9	22	23.1	18.8	497-3507-1-ND◆	.90	7.20	54.00	497-3507-2-ND◆	2,500	285.00/M	SM6T22CA
5	1500	20	—	—	18	497-4295-1-ND◆	.90	7.20	54.00	497-4295-2-ND◆	2,500	285.00/M	SMCJ18CA-TR
7A	300	6.51	—	—	5.0	497-3407-1-ND◆	1.98	16.50	138.60	497-3407-2-ND◆	2,500	858.00/M	ITA6V1U1RL
7B	150	25	—	30	24	497-2488-1-ND◆	1.24	10.73	82.50	497-2488-2-ND◆	2,500	438.90/M	ESDA25B1RL
7C	300	6.5	—	—	5.0	497-3408-1-ND	1.98	16.50	138.60	497-3408-2-ND	2,500	858.00/M	ITA6V5B1RL
		18	—	—	15	497-3405-1-ND	1.98	16.50	138.60	497-3405-2-ND	2,500	858.00/M	ITA18B1RL
		25	—	—	24	497-2686-5-ND◆‡	1.98	16.50	138.60	—	—	—	ITA25B1
		25	—	—	24	497-3406-1-ND◆	1.98	16.50	138.60	497-3406-2-ND◆	2,500	858.00/M	ITA25B1RL
8A	50	14.2	—	18	12	497-3784-1-ND◆	.68	5.40	40.50	497-3784-2-ND◆	5,000	203.00/M	ESDA14V2-4BF2
9	80	6.1	—	8	3.0	497-4643-1-ND◆	.60	4.80	36.00	497-4643-2-ND◆	3,000	180.00/M	ESDA6V1-4BC6
10B	50	14.2	—	18	12	497-5541-1-ND◆	2.64	22.00	184.80	—	—	—	ESDALC14V2-2BP5
12B	100	6.1	—	8.0	3	497-6291-1-ND◆	.65	5.20	39.00	497-6291-2-ND◆	3,000	195.00/M	ESDALC6V1-1BT2
	100	—	6.1	—	3	497-6292-1-ND◆	.65	5.20	39.00	497-6292-2-ND◆	3,000	195.00/M	ESDAVLC6V1-1BM2
	100	—	6.1	—	3	497-6293-1-ND◆	.65	5.20	39.00	497-6293-2-ND◆	3,000	182.00/M	ESDAVLC6V1-1BT2
	140	—	6.1	—	—	497-5543-1-ND◆	.65	5.20	39.00	497-5543-2-ND◆	3,000	195.00/M	ESDALC6V1-1BM2

◆ ***RoHS Compliant*** † Tape and Box ‡ Tube

(Continued)

Transil™ Series *(Cont.)*

Fig.	PW (W)	Breakdown Voltage			VRM (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
		Minimum	Nominal	Maximum			1	10	100		Qty.	Pricing	
Uni-Directional													
1	1500	6.45	6.8	7.14	5.8	497-3751-1-ND◆	.79	6.30	47.25	497-3751-3-ND◆†	600	194.40	1.5KE6V8A
		209	220	231	188	497-4611-1-ND◆	.65	5.20	39.00	497-4611-2-ND◆	1,900	208.00/M	1.5KE220ARL
1	5000	16.6	—	—	15	497-4189-1-ND◆	2.10	17.50	147.00	497-4189-2-ND◆	1,000	945.00	BZW50-15RL
		200	—	—	180	497-4612-1-ND◆	2.40	20.00	168.00	497-4612-2-ND◆	1,000	1080.00	BZW50-180RL
2	600	31.4	33	24.7	28.2	497-4287-1-ND◆	.50	4.00	30.00	497-4287-2-ND◆	6,000	140.00/M	P6KE33ARL
		237	250	263	213	497-4286-1-ND◆	.50	4.00	30.00	497-4286-2-ND◆	6,000	140.00/M	P6KE250ARL
3	400	6.4	—	—	5.0	497-2999-1-ND◆	.55	3.40	25.50	497-2999-2-ND◆	5,000	136.00/M	SMAJ5.0A-TR
		47.8	—	—	43	497-4290-1-ND◆	.50	4.00	30.00	497-4290-2-ND◆	5,000	140.00/M	SMAJ43A-TR
		64.4	—	—	58	497-3508-1-ND◆	.50	4.00	30.00	497-3508-2-ND◆	5,000	140.00/M	SMAJ58A-TR
		111	—	—	100	497-4289-1-ND◆	.50	4.00	30.00	497-4289-2-ND◆	5,000	140.00/M	SMAJ100A-TR
	600	6.4	6.74	7.07	5	497-5938-1-ND◆	.48	3.80	28.50	—	—	—	SMA6J5.0A-TR
		6.7	7.05	7.41	6	497-5942-1-ND◆	.48	3.80	28.50	497-5942-2-ND◆	5,000	133.00/M	SMA6J6.0A-TR
		7.2	7.58	7.96	6.5	497-5944-1-ND◆	.48	3.80	28.50	497-5944-2-ND◆	5,000	133.00/M	SMA6J6.5A-TR
		9.4	9.9	10.4	8.5	497-5948-1-ND◆	.48	3.80	28.50	497-5948-2-ND◆	5,000	133.00/M	SMA6J8.5A-TR
		11.1	11.7	12.3	10	497-5915-1-ND◆	.48	3.80	28.50	497-5915-2-ND◆	5,000	133.00/M	SMA6J10A-TR
		13.3	14.0	14.7	12	497-5917-1-ND◆	.48	3.80	28.50	497-5917-2-ND◆	5,000	133.00/M	SMA6J12A-TR
		14.4	15.2	15.9	13	497-5919-1-ND◆	.48	3.80	28.50	497-5919-2-ND◆	5,000	133.00/M	SMA6J13A-TR
		16.7	17.6	18.5	15	497-5921-1-ND◆	.48	3.80	28.50	497-5921-2-ND◆	5,000	133.00/M	SMA6J15A-TR
		20.0	21.1	22.1	18	497-5923-1-ND◆	.48	3.80	28.50	497-5923-2-ND◆	5,000	133.00/M	SMA6J18A-TR
		26.7	28.1	29.5	24	497-5927-1-ND◆	.48	3.80	28.50	497-5927-2-ND◆	5,000	133.00/M	SMA6J24A-TR
		28.9	30.4	31.9	26	497-5929-1-ND◆	.48	3.80	28.50	497-5929-2-ND◆	5,000	133.00/M	SMA6J26A-TR
		31.1	32.7	34.4	28	497-5931-1-ND◆	.48	3.80	28.50	—	—	—	SMA6J28A-TR
		36.7	38.6	40.6	33	497-5932-1-ND◆	.48	3.80	28.50	497-5932-2-ND◆	5,000	133.00/M	SMA6J33A-TR
		44.4	46.7	49.1	40	497-5934-1-ND◆	.48	3.80	28.50	497-5934-2-ND◆	5,000	133.00/M	SMA6J40A-TR
		53.3	56.1	58.9	48	497-5936-1-ND◆	.48	3.80	28.50	497-5936-2-ND◆	5,000	133.00/M	SMA6J48A-TR
		64.4	67.8	71.2	58	497-5940-1-ND◆	.48	3.80	28.50	497-5940-2-ND◆	5,000	133.00/M	SMA6J58A-TR
		77.8	81.9	86.0	70	497-5946-1-ND◆	.48	3.80	28.50	497-5946-2-ND◆	5,000	133.00/M	SMA6J70A-TR
4	600	28.5	30	31.5	25.6	497-3506-1-ND	.86	6.84	51.30	497-3506-2-ND	2,500	256.50/M	SM6HT30A
5	1500	6.7	—	—	6.0	497-4296-1-ND◆	.90	7.20	54.00	497-4296-2-ND◆	2,500	285.00/M	SMCJ6.0A-TR
		11.4	12	12.6	10.2	497-3715-1-ND	1.13	9.75	75.00	497-3715-2-ND	2,500	399.00/M	SM15T12A
		37.1	39	41.0	33.3	497-3716-1-ND◆	.95	7.56	56.70	497-3716-2-ND◆	2,500	299.00/M	SM15T39A
6	300	6.1	—	7.2	5.25	497-2930-1-ND◆	.55	4.40	33.00	497-2930-2-ND◆	3,000	165.00/M	ESDA6V1L
		25	—	30	24	497-4642-1-ND◆	.50	4.00	30.00	497-4642-2-ND◆	3,000	150.00/M	ESDA25L
7A	200	6.1	—	7.2	5.0	497-3403-5-ND◆‡	1.24	10.73	82.50	—	—	—	ESDA6V1U1
		6.1	—	7.2	5.0	497-3711-1-ND◆	1.05	9.10	70.00	497-3711-2-ND◆	2,500	372.00/M	ESDA6V1U1RL
8B	25	6.1	—	7.2	3.0	497-6008-1-ND◆	.45	3.60	27.00	497-6008-2-ND◆	5,000	126.00/M	ESDALC6V1C2
10A	30	6.1	—	7.2	3.0	497-3785-1-ND◆	.60	4.80	36.00	497-3785-2-ND◆	3,000	180.00/M	ESDALC6V1P5
11	30	6.1	—	7.2	3.0	497-3404-1-ND◆	.49	3.92	29.40	497-3404-2-ND◆	3,000	147.00/M	ESDALC6V1P6
12A	50	6.1	—	7.2	3.0	497-5238-1-ND◆	.46	3.50	25.20	497-5238-2-ND◆	3,000	119.00/M	ESDALC6V1-1M2
13	30	6.1	—	7.2	5.0	497-5563-1-ND◆	.52	4.00	28.80	497-5563-2-ND◆	3,000	136.00/M	ESDALC6V1M3
14A	30	6.1	—	7.2	3.0	497-5564-1-ND◆	.65	5.20	39.00	—	—	—	ESDALC6V1M6
14B	30	6.1	—	7.2	3.0	497-5779-1-ND◆	.65	5.20	39.00	497-5779-2-ND◆	3,000	195.00/M	ESDA6V1-5M6
		6.1	—	7.2	3.0	497-5780-1-ND◆	.63	5.04	37.80	497-5780-2-ND◆	3,000	200.00/M	ESDALC6V1-5M6

◆ ***RoHS Compliant*** † Tape and Box ‡ Tube

Transient Surge Arrestors - Trisil™ Series - SMB Package

V_{BR} @ I_R Maximum (V)	(µA)	I_{RM} @ V_{RM} Maximum (µA)	(V)	Dynamic V_{BO} Maximum (V)	I_{PP} @ 10/1000µs	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	STMicroelectronics Part No.
35	5	2	32	55	100	497-4093-1-ND◆	.90	7.80	60.00	497-4093-2-ND◆	319.00/M	SMP100LC-35
65	5	2	55	85	100	497-4096-1-ND◆	.98	8.45	65.00	497-4096-2-ND◆	346.00/M	SMP100LC-65
90	5	2	81	120	100	497-4097-1-ND◆	.98	8.45	65.00	497-4097-2-ND◆	346.00/M	SMP100LC-90
120	5	2	108	155	100	497-4087-1-ND◆	1.08	8.64	64.80	497-4087-2-ND◆	342.00/M	SMP100LC-120
140	5	2	120	185	100	497-4088-1-ND	1.08	8.64	64.80	497-4088-2-ND	342.00/M	SMP100LC-140
160	5	2	144	205	100	497-4089-1-ND	1.08	8.64	64.80	497-4089-2-ND	342.00/M	SMP100LC-160
200	5	2	180	255	100	497-4090-1-ND◆	1.08	8.64	64.80	497-4090-2-ND◆	342.00/M	SMP100LC-200
230	5	2	207	295	100	497-4091-1-ND◆	1.08	8.64	64.80	497-4091-2-ND◆	342.00/M	SMP100LC-230
270	5	2	243	345	100	497-4092-1-ND◆	1.08	8.64	64.80	497-4092-2-ND◆	342.00/M	SMP100LC-270
320	5	2	290	400	100	497-4297-1-ND◆	1.08	8.64	64.80	497-4297-2-ND◆	342.00/M	SMP100LC-320
360	5	2	325	460	100	497-4094-1-ND	.90	7.80	60.00	497-4094-2-ND	319.00/M	SMP100LC-360
400	5	2	360	540	100	497-4095-1-ND◆	1.08	8.64	64.80	497-4095-2-ND◆	319.00/M	SMP100LC-400
160	5	2	144	205	100	497-4298-1-ND◆	1.08	8.64	64.80	497-4298-2-ND◆	342.00/M	SMP100MC-160
200	5	2	180	255	100	497-4299-1-ND◆	1.08	8.64	64.80	497-4299-2-ND◆	342.00/M	SMP100MC-200
230	5	2	207	295	100	497-4300-1-ND◆	1.08	8.64	64.80	497-4300-2-ND◆	342.00/M	SMP100MC-230
270	5	2	243	345	100	497-4301-1-ND◆	1.08	8.64	64.80	497-4301-2-ND◆	342.00/M	SMP100MC-270
320	5	2	290	400	100	497-4999-1-ND◆	.94	8.13	62.50	497-4999-2-ND◆	333.00/M	SMP100MC-320
360	5	2	325	460	100	497-5000-1-ND◆	.94	8.13	62.50	497-5000-2-ND◆	332.50/M	SMP100MC-360
400	5	2	360	540	100	497-5001-1-ND◆	.90	7.20	54.00	497-5001-2-ND◆	285.00/M	SMP100MC-400
120	5	2	108	155	80	497-4783-1-ND◆	.79	6.34	47.52	—	—	SMP80MC-120
140	5	2	126	180	80	497-4782-1-ND◆	.79	6.34	47.52	497-4782-2-ND◆	251.00/M	SMP80MC-140
160	5	2	144	205	80	497-4766-1-ND◆	.79	6.34	47.52	—	—	SMP80MC-160
200	5	2	180	255	80	497-4781-1-ND◆	.79	6.34	47.52	497-4781-2-ND◆	251.00/M	SMP80MC-200
230	5	2	207	295	80	497-4780-1-ND◆	.79	6.34	47.52	497-4780-2-ND◆	250.80/M	SMP80MC-230
270	5	2	243	345	80	497-4302-1-ND◆	1.08	8.64	64.80	497-4302-2-ND◆	342.00/M	SMP80MC-270

◆ ***RoHS Compliant***

(Continued)

General Purpose Transient Voltage Suppressors

Package	Pw (W)	VBR @ IR Minimum (V)	(mA)	IRM @ VRM Maximum (µA)	(V)	VCL @ IPP 10/1000µs Max. (V)	(A)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	STMicroelectronics Part No.
								Bi-Directional							
SMB	600	6.4	10	800	5.0	9.2	68	497-3145-1-ND◆	.90	7.20	54.00	497-3145-2-ND◆	2,500	285.00/M	SMBJ5.0CA-TR
		7.2	10	500	6.5	11.2	56	497-3146-1-ND	.90	7.20	54.00	497-3146-2-ND	2,500	285.00/M	SMBJ6.5CA-TR
		11.1	1	5	10	17	37	497-3000-1-ND◆	.90	7.20	54.00	497-3000-2-ND◆	2,500	285.00/M	SMBJ10CA-TR
		13.3	1	5	12	19.9	31	497-3002-1-ND◆	.55	4.25	30.60	497-3002-2-ND◆	2,500	145.00/M	SMBJ12CA-TR
		16.7	1	1	15	24.4	25.1	497-3004-1-ND◆	.55	4.25	30.60	497-3004-2-ND◆	2,500	145.00/M	SMBJ15CA-TR
SMB	600	26.7	1	1	24	38.9	16	497-3141-1-ND	.55	4.25	30.60	497-3141-2-ND	2,500	136.00/M	SMBJ24CA-TR
		33.3	1	1	30	48.4	13	497-3142-1-ND◆	.48	3.42	25.65	497-3142-2-ND◆	2,500	143.00/M	SMBJ30CA-TR
		36.7	1	1	33	53.3	11.8	497-3005-1-ND	.55	4.25	30.60	497-3005-2-ND	2,500	145.00/M	SMBJ33CA-TR
		64.4	1	1	58	93.6	6.7	497-3143-1-ND◆	.55	4.25	30.60	497-3143-2-ND◆	2,500	145.00/M	SMBJ58CA-TR
		77.8	1	1	70	113	5.5	497-3770-1-ND◆	.50	4.00	30.00	—	—	—	SMBJ70CA-TR
								Uni-Directional							
DO-201	1500	22	1	1	20	33.2	45	497-4990-1-ND◆	.55	4.40	33.00	497-4990-3-ND◆†	600	125.40	LNBTVS3-220
	1800	22	1	1	20	33.2	55	497-4992-1-ND◆	.72	5.76	43.20	497-4992-3-ND◆†	600	177.60	LNBTVS4-220
	2000	22	1	1	20	33.2	60	497-4994-1-ND◆	.90	7.20	54.00	497-4994-3-ND◆†	600	222.00	LNBTVS4-221
SMB	600	6.4	10	800	5.0	9.2	68	497-3144-1-ND◆	.55	4.25	30.60	497-3144-2-ND◆	2,500	145.00/M	SMBJ5.0A-TR
		6.7	10	800	6.0	10.3	61	497-3006-1-ND◆	.65	5.00	36.00	497-3006-2-ND◆	2,500	170.00/M	SMBJ6.0A-TR
		7.2	10	500	6.5	11.2	56	497-3007-1-ND	.65	5.00	36.00	497-3007-2-ND	2,500	170.00/M	SMBJ6.5A-TR
		13.3	1	5	12	19.9	31	497-3001-1-ND◆	.65	5.00	36.00	497-3001-2-ND◆	2,500	170.00/M	SMBJ12A-TR
		16.7	1	1	15	24.4	25.1	497-3003-1-ND◆	.65	5.00	36.00	497-3003-2-ND◆	2,500	170.00/M	SMBJ15A-TR
SMB	600	17.8	1	1	16	26	23.1	497-4293-1-ND◆	.50	4.00	30.00	497-4293-2-ND◆	2,500	150.00/M	SMBJ16A-TR
		20	1	1	18	29.2	21.5	497-3139-1-ND◆	.45	3.60	27.00	497-3139-2-ND◆	2,500	170.00/M	SMBJ18A-TR
		26.7	1	1	24	38.9	16	497-3140-1-ND◆	.45	3.60	27.00	497-3140-2-ND◆	2,500	170.00/M	SMBJ24A-TR
		77.8	1	1	70	113	5.5	497-4294-1-ND◆	.50	4.00	30.00	—	—	—	SMBJ70A-TR
		171	1	1	154	246	2.4	497-4292-1-ND◆	.50	4.00	30.00	497-4292-2-ND◆	2,500	150.00/M	SMBJ154A-TR
	1500	22	1	1	20	33.2	45	497-4991-1-ND◆	.70	5.60	42.00	—	—	—	LNBTVS3-220U
SMC	1800	22	1	1	20	33.2	55	497-4993-1-ND◆	.72	5.76	43.20	497-4993-2-ND◆	2,500	228.00/M	LNBTVS4-220S
	2000	22	1	1	20	33.2	60	497-4995-1-ND◆	.99	7.92	59.40	497-4995-2-ND◆	2,500	314.00/M	LNBTVS4-221S
	3000	22	1	1	20	33.2	90	497-4996-1-ND◆	.98	8.45	65.00	497-4996-2-ND◆	2,500	346.00/M	LNBTVS4-222S
	3000	22	1	1	20	33.2	90	497-4997-1-ND◆	.94	8.13	62.50	497-4997-2-ND◆	2,500	333.00/M	LNBTVS6-220S
	3000	22	1	1	20	33.2	90	497-4998-1-ND◆	1.13	9.75	75.00	497-4998-2-ND◆	2,500	399.00/M	LNBTVS6-221S

◆ ***RoHS Compliant*** † Tape and Box

Application Specific TVS

Fig. 1 — 8-SOIC

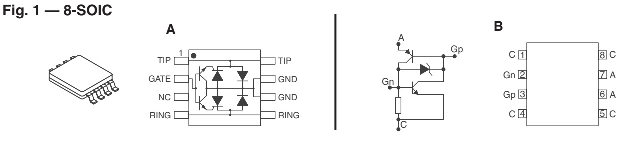

Fig. 2 — 8-SOIC Wide

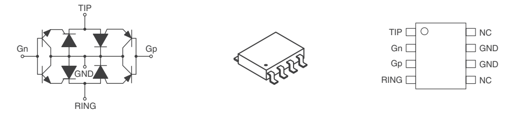

Fig. 3 — SOT23-6L

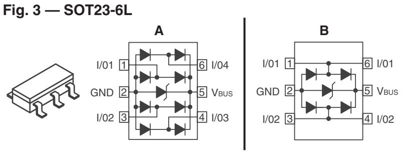

Fig. 4 — DO-15

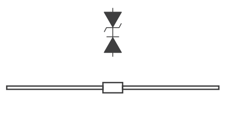

Fig. 5 — D2PAK

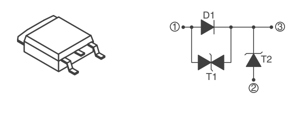

Fig. 6 — TO220-AB

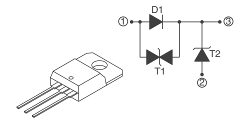

Fig. 7 — DO-216AA

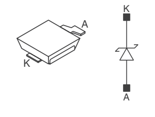

Fig. 8 — SOT-666

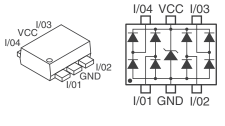

Fig. 9 — Flip-Chip

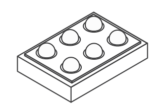

Fig. 10 — SOT23-5L

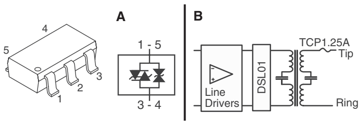

Fig. 11 — SMA

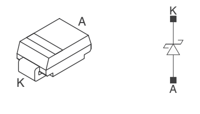

Fig.	Package	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	STMicroelectronics Part No.
1A	8-SOIC	Programmable TVS for SLIC Protection	497-3781-1-ND◆	1.05	.91	.70	497-3781-2-ND◆	2,500	372.00/M	LCP1521SRL
		Programmable TVS for SLIC Protection	497-6010-1-ND◆	1.16	1.01	.78	497-6010-2-ND◆	2,500	412.00/M	LCP1531RL
1B	8-SOIC	Overvoltage and Overcurrent Protection for Telecom Line	497-3780-1-ND	2.04	1.70	1.43	497-3780-2-ND	2,500	884.00/M	LCP3121RL
2	8-SOIC Wide	Protection IC for Ringing SLICS	497-2558-5-ND◆‡	2.70	2.35	1.75	—	—	—	LCP02-150B1
3A	SOT23-6L	Ultra Low Capacitance ESD Protection	497-5237-1-ND◆	1.04	.83	.63	497-5237-2-ND◆	3,000	328.00/M	DVIULC6-4SC6
		Ultra Large Bandwidth ESD Protection	497-5239-1-ND◆	1.69	1.47	1.13	497-5239-2-ND◆	3,000	599.00/M	HDMIULC6-4SC6
3B	SOT23-6L	Very Low Capacitance ESD Protection	497-5235-1-ND◆	.94	.82	.63	497-5235-2-ND◆	3,000	333.00/M	USBLC6-2SC6
4	DO-15	TVS 160V/700V	497-3138-1-ND ◆	.90	.72	.54	497-3138-3-ND◆†	1,000	310.00	PKC-136
5	D^2PAK	Reversed Battery and Overvoltage Protection	497-2554-5-ND◆‡	2.70	2.25	1.89	—	—	—	RBO40-40G
		Reversed Battery and Overvoltage Protection	497-3714-1-ND◆	2.70	2.25	1.89	497-3714-2-ND◆	1,000	1215.00	RBO40-40G-TR
6	TO220-AB	Reversed Battery and Overvoltage Protection	497-2550-5-ND◆‡	2.25	1.88	1.58	—	—	—	RBO40-40T
7	DO-216AA	Low Forward Voltage TVS: Transky™	497-3509-1-ND◆	.94	.82	.63	497-3509-2-ND◆	12,000	313.00/M	SMTY18AM
8	SOT-666	ESD Protection for High Speed Interface	497-5544-1-ND◆	.94	.82	.63	—	—	—	DSILC6-4P6
9	Flip-Chip	ESD Protection for High Speed Interface	497-6116-1-ND◆	.94	.82	.63	497-6116-2-ND◆	5,000	319.00/M	DSILC6-4F2
10A	SOT23-5L	Secondary Protection for DSL Lines	497-5538-1-ND◆	.94	.82	.63	497-5538-2-ND◆	3,000	333.00/M	DSL01-008SC5
10B	SOT23-5L	Secondary Protection for DSL Lines	497-6160-1-ND◆	.94	.82	.63	497-6160-2-ND◆	3,000	333.00/M	DSL01-016SC5
11	SMA	Low Forward Voltage TVS: Transky™	497-5539-1-ND◆	.72	.58	.44	497-5539-2-ND◆	5,000	216.00/M	SMTY5.0A
		Low Forward Voltage TVS: Transky™	497-5540-1-ND◆	.81	.65	.49	497-5540-2-ND◆	5,000	243.00/M	SMTY12A

◆ ***RoHS Compliant*** † Ammo Pack ‡ Tube

ON Semiconductor™

Transient Voltage Suppressors

Dimensions in mm

600 Watt SMB Surface Mount TVS

Specification Features: • Peak Power — 600 Watts @ 1ms • Low Leakage < 5μA above 10V • Response Time is Typically < 1ns

Mechanical Characteristics: • **Case**: Thermosetting plastic • **Finish**: Corrosion resistant • **Mounting Position**: Any • **Bi-Directional**: Polarity band will not be indicated • **Uni-Directional**: Cathode indicated by polarity band.

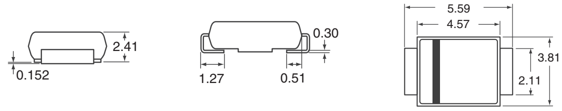

Breakdown Voltage V_{BR} Min.	Nom.	Max.	V_{RWM} Min. (V)	I_R @ V_{RWM} (μA)	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Digi-Key Part No.	Tape and Reel Pricing 2,500
600 Watts, Bi-Directional — RoHS Compliant										
11.1	11.69	12.27	10	5	1SMB10CAT3GOSCT-ND	3.44	24.77	46.44	1SMB10CAT3GOSTR-ND	117.00/M
13.3	14.00	14.7	12	5	1SMB12CAT3GOSCT-ND	3.44	24.77	46.44	1SMB12CAT3GOSTR-ND	117.00/M
14. 3	15	15.8	12.8	5	P6SMB15CAT3GOSCT-ND	3.56	25.60	47.99	P6SMB15CAT3GOSTR-ND	121.00/M
16.7	17.58	18.5	15	5	1SMB15CAT3GOSCT-ND	3.44	24.77	46.44	1SMB15CAT3GOSTR-ND	117.00/M
17.8	18.74	19.7	16	5	1SMB16CAT3GOSCT-ND	3.44	24.77	46.44	1SMB16CAT3GOSTR-ND	117.00/M
20.0	21.06	22.1	18	5	1SMB18CAT3GOSCT-ND	3.44	24.77	46.44	1SMB18CAT3GOSTR-ND	117.00/M
22.2	23.37	24.5	20	5	1SMB20CAT3GOSCT-ND	3.44	24.77	46.44	1SMB20CAT3GOSTR-ND	117.00/M
33.3	35.06	36.8	30	5	1SMB30CAT3GOSCT-ND	3.44	24.77	46.44	1SMB30CAT3GOSTR-ND	117.00/M
40.0	42.11	44.2	36	5	1SMB36CAT3GOSCT-ND	3.44	24.77	46.44	1SMB36CAT3GOSTR-ND	117.00/M
600 Watts, Uni-Directional										
6.40	6.7	7.0	5.0	800	1SMB5.0AT3GOSCT-ND◆	3.71	26.09	47.44	SMB5.0AT3GOSTR-ND◆	107.00/M
6.45	6.8	7.14	5.8	1000	P6SMB6.8AT3GOSCT-ND◆	3.33	23.98	44.96	P6SMB6.8AT3GOSTR-ND◆	113.00/M
6.67	7.02	7.37	6.0	800	1SMB6.0AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB6.0AT3GOSTR-ND◆	107.00/M
7.22	7.6	7.98	6.5	500	1SMB6.5AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB6.5AT3GOSTR-ND◆	107.00/M
7.78	8.19	8.6	7.0	500	1SMB7.0AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB7.0AT3GOSTR-ND◆	107.00/M
9.44	9.92	10.4	8.5	10	1SMB8.5AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB8.5AT3GOSTR-ND◆	107.00/M
11.1	11.7	12.3	10	5	1SMB10AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB10AT3GOSTR-ND◆	107.00/M
13.3	14	14.7	12	5	1SMB12AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB12AT3GOSTR-ND◆	107.00/M
14.3	15	15.8	12.8	5	P6SMB15AT3GOSCT-ND◆	3.33	23.98	44.96	P6SMB15AT3GOSTR-ND◆	113.00/M
14.4	15.15	15.9	13	5	1SMB13AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB13AT3GOSTR-ND◆	107.00/M
16.7	17.6	18.5	15	5	1SMB15AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB15AT3GOSTR-ND◆	107.00/M
20.0	21.05	22.1	18	5	1SMB18AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB18AT3GOSTR-ND◆	107.00/M
22.2	23.35	24.5	20	5	1SMB20AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB20AT3GOSTR-ND◆	107.00/M
24.4	25.65	26.9	22	5	1SMB22AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB22AT3GOSTR-ND◆	107.00/M
25.7	27	28.4	23.1	5	P6SMB27AT3GOSCT-ND◆	3.33	23.98	44.96	P6SMB27AT3GOSTR-ND◆	113.00/M
26.7	28.1	29.5	24	5	1SMB24AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB24AT3GOSTR-ND◆	107.00/M
28.5	30	31.5	25.6	5	P6SMB30AT3GOSCT-ND◆	3.33	23.98	44.96	P6SMB30AT3GOSTR-ND◆	113.00/M
28.9	30.4	31.9	26	5	1SMB26AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB26AT3GOSTR-ND◆	107.00/M
31.1	32.75	34.4	28	5	1SMB28AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB28AT3GOSTR-ND◆	107.00/M
33.3	35.05	36.8	30	5	1SMB30AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB30AT3GOSTR-ND◆	107.00/M
34.2	36	37.8	30.8	5	P6SMB36AT3GOSCT-ND◆	3.33	23.98	44.96	P6SMB36AT3GOSTR-ND◆	113.00/M
36.7	38.65	40.6	33	5	1SMB33AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB33AT3GOSTR-ND◆	107.00/M
37.1	39	41	33.3	5	P6SMB39AT3GOSCT-ND◆	3.33	23.98	44.96	P6SMB39AT3GOSTR-ND◆	113.00/M
40.0	42.1	44.2	36	5	1SMB36AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB36AT3GOSTR-ND◆	107.00/M
44.4	46.75	49.1	40	5	1SMB40AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB40AT3GOSTR-ND◆	107.00/M
47.8	50.3	52.8	43	5	1SMB43AT3OSCT-ND	2.80	21.00	42.00	—	—
47.8	50.3	52.8	43	5	1SMB43AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB43AT3GOSTR-ND◆	107.00/M
56.7	59.7	62.7	51	5	1SMB51AT3OSCT-ND	2.80	21.00	42.00	—	—
56.7	59.7	62.7	51	5	1SMB51AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB51AT3GOSTR-ND◆	107.00/M
64.4	67.8	71.2	58	5	1SMB58AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB58AT3GOSTR-ND◆	107.00/M
66.7	70.2	73.7	60	5	1SMB60AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB60AT3GOSTR-ND◆	107.00/M
77.8	81.9	86	70	5	1SMB70AT3GOSCT-ND◆	3.71	26.09	47.44	1SMB70AT3GOSTR-ND◆	107.00/M
94.4	99.2	104	85	5	1SMB85AT3GOSCT-ND◆	3.32	23.90	44.82	1SMB85AT3GOSTR-ND◆	113.00/M
133	140	147	120	5	1SMB120AT3GOSCT-ND◆	3.90	28.08	52.65	1SMB120AT3GOSTR-ND◆	133.00/M
152	160	168	136	5	P6SMB160AT3OSCT-ND	3.66	27.42	54.84	—	—
189	199	209	170	5	1SMB170AT3GOSCT-ND◆	3.90	28.08	52.65	1SMB170AT3GOSTR-ND◆	133.00/M
190	200	210	171	5	P6SMB200AT3GOSCT-ND◆	3.90	28.08	52.65	P6SMB200AT3GOSTR-ND◆	133.00/M

◆ *RoHS Compliant*

ON Semiconductor™

Transient Voltage Suppressors

Dim. in mm

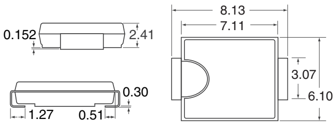

1500 Watt SMC Surface Mount TVS - Uni-Directional

Specifications: • Peak Power — 1500W@1ms • Low Leakage <5µA above 10V • Response time is typically <1 ns **Mechanical Characteristics**: • Case: Thermosetting plastic • Finish: Corrosion resistant • Polarity: Cathode indicated by molded polarity notch • Mounting Position: Any

Breakdown Voltage V_{BR} Min.	Nom.	Max.	V_{RWM} Minimum (V)	I_R @ V_{RWM} (µA)	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Digi-Key Part No.	Tape and Reel Pricing 2,500
6.4	6.7	7.0	5.0	1,000	1SMC5.0AT3GOSCT-ND◆	5.22	39.15	78.30	1SMC5.0AT3GOSTR-ND◆	196.00/M
6.67	7.02	7.37	6.0	1,000	1SMC6.0AT3GOSCT-ND◆	5.22	39.15	78.30	1SMC6.0AT3GOSTR-ND◆	196.00/M
13.3	14	14.7	12	5	1SMC12AT3OSCT-ND	5.41	40.55	86.37	1SMC12AT3OSTR-ND	342.00/M
13.3	14	14.7	12	5	1SMC12AT3GOSCT-ND◆	5.22	39.15	78.30	1SMC12AT3GOSTR-ND◆	196.00/M
16.7	17.6	18.5	15	5	1SMC15AT3GOSCT-ND◆	5.22	39.15	78.30	1SMC15AT3GOSTR-ND◆	196.00/M
20	21.05	22.1	18	5	1SMC18AT3GOSCT-ND◆	5.22	39.15	78.30	1SMC18AT3GOSTR-ND◆	196.00/M
26.7	28.1	29.5	24	5	1SMC24AT3GOSCT-ND◆	5.22	39.15	78.30	1SMC24AT3GOSTR-ND◆	196.00/M
28.9	30.4	31.9	26	5	1SMC26AT3GOSCT-ND◆	5.22	39.15	78.30	1SMC26AT3GOSTR-ND◆	196.00/M
31.1	32.75	34.4	28	5	1SMC28AT3GOSCT-ND◆	5.22	39.15	78.30	1SMC28AT3GOSTR-ND◆	196.00/M
36.7	38.65	40.6	33	5	1SMC33AT3GOSCT-ND◆	5.22	39.15	78.30	1SMC33AT3GOSTR-ND◆	196.00/M
40	42.1	44.2	36	5	1SMC36AT3GOSCT-ND◆	5.22	39.15	78.30	1SMC36AT3GOSTR-ND◆	196.00/M
56.7	59.7	62.7	51	5	1SMC51AT3GOSCT-ND◆	5.22	39.15	78.30	1SMC51AT3GOSTR-ND◆	196.00/M
6.45	6.8	7.14	5.8	1,000	1.5SMC6.8AT3GOSCT-ND◆	5.22	39.15	78.30	1.5SMC6.8AT3GOSTR-ND◆	196.00/M
14.3	15	15.8	12.8	5	1.5SMC15AT3GOSCT-ND◆	5.22	39.15	78.30	1.5SMC15AT3GOSTR-ND◆	196.00/M
17.1	18	18.9	15.3	5	1.5SMC18AT3GOSCT-ND◆	5.22	39.15	78.30	1.5SMC18AT3GOSTR-ND◆	196.00/M
22.8	24	25.2	20.5	5	1.5SMC24AT3GOSCT-ND◆	5.22	39.15	78.30	1.5SMC24AT3GOSTR-ND◆	196.00/M
25.7	27	28.4	23.1	5	1.5SMC27AT3GOSCT-ND◆	5.22	39.15	78.30	1.5SMC27AT3GOSTR-ND◆	196.00/M
28.5	30	31.5	25.6	5	1.5SMC30AT3GOSCT-ND◆	5.22	39.15	78.30	1.5SMC30AT3GOSTR-ND◆	196.00/M
31.4	33	34.7	28.2	5	1.5SMC33AT3GOSCT-ND◆	5.22	39.15	78.30	1.5SMC33AT3GOSTR-ND◆	196.00/M
34.2	36	37.8	30.8	5	1.5SMC36AT3GOSCT-ND◆	5.22	39.15	78.30	1.5SMC36AT3GOSTR-ND◆	196.00/M
37.1	39	41	33.3	5	1.5SMC39AT3GOSCT-ND◆	5.22	39.15	78.30	1.5SMC39AT3GOSTR-ND◆	196.00/M
40.9	43	45.2	36.8	5	1.5SMC43AT3GOSCT-ND◆	5.22	39.15	78.30	1.5SMC43AT3GOSTR-ND◆	196.00/M

◆ *RoHS Compliant*

1500 Watt Mosorb™ TVS

Dim. in mm

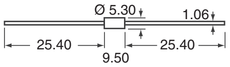

Specifications: • Maximum clamp voltage @ peak pulse current • Low leakage <5µA above 10V • Response time is typically < 1 ns
Mechanical Characteristics: • Case: Void-free, transfer-model, thermosetting plastic • Finish: All external surfaces are corrosion resistant and leads are readily solderable
• Maximum lead temperature for soldering purposes: 230°C, 1/16" from case for 10 seconds • Polarity: Cathode indicated by polarity band • Mounting Position: Any

Breakdown Voltage V_{BR} Min.	Nom.	Max.	V_{RWM} Min. (V)	I_R @ V_{RWM} (µA)	Digi-Key Part No.	Pricing 1	10	100	250	Digi-Key Part No.	Tape and Reel Pricing 1,500
					1.5KE Series						
6.45	6.8	7.14	5.8	1,000	1.5KE6.8AGOS-ND◆	.71	5.70	42.72	85.44	—	—
14.3	15	15.8	12.8	5	1.5KE15AGOS-ND◆	.71	5.70	42.72	85.44	—	—
15.2	16	16.8	13.6	5	1.5KE16AGOS-ND◆	.71	5.70	42.72	85.44	—	—
17.1	18	18.9	15.3	5	1.5KE18AGOS-ND◆	.71	5.70	42.72	85.44	—	—
19	20	21	17.1	5	1.5KE20AGOS-ND◆	.71	5.70	42.72	85.44	—	—
25.7	27	28.4	23.1	5	1.5KE27AOS-ND	.74	5.88	44.12	93.96	—	—
25.7	27	28.4	23.1	5	1.5KE27AGOS-ND◆	.71	5.70	42.72	85.44	—	—
28.5	30	31.5	25.6	5	1.5KE30AOS-ND	.78	6.28	47.09	100.28	—	—
28.5	30	31.5	25.6	5	1.5KE30AGOS-ND◆	.71	5.70	42.72	85.44	—	—
31.4	33	34.7	28.2	5	1.5KE33AGOS-ND◆	.71	5.70	42.72	85.44	—	—
34.2	36	37.8	30.8	5	1.5KE36ARL4GOSCT-ND◆	—	5.70	42.72	85.44	1.5KE36ARL4GOSTR-ND◆	228.00/M
37.1	39	41	33.3	5	1.5KE39ARL4GOSCT-ND◆	—	5.70	42.72	85.44	1.5KE39ARL4GOSTR-ND◆	228.00/M
40.9	43	45.2	36.8	5	1.5KE43AGOS-ND◆	.71	5.70	42.72	85.44	—	—
53.2	56	58.8	47.8	5	1.5KE56ARL4GOSCT-ND◆	—	5.70	42.72	85.44	1.5KE56ARL4GOSTR-ND◆	228.00/M
58.9	62	65.1	53	5	1.5KE62AGOS-ND◆	.71	5.70	42.72	85.44	—	—
64.6	68	71.4	58.1	5	1.5KE68AGOS-ND◆	.71	5.70	42.72	85.44	—	—
190	200	210	171	5	1.5KE200AGOS-ND◆	2.63	22.75	175.00	367.50	—	—
					JEDEC Series						
6.0	—	—	5	300	1N6373RL4GOSCT-ND◆	—	5.93	44.49	88.98	1N6373RL4GOSTR-ND◆	237.00/M
6.0	—	—	5	300	ICTE-5RL4GOSCT-ND◆	—	8.45	65.00	136.50	ICTE-5RL4GOSTR-ND◆	377.00/M
6.0	6.2	—	5	300	1N5908RL4GOSCT-ND◆	—	5.93	44.49	88.98	1N5908RL4GOSTR-ND◆	237.00/M
6.45	6.8	7.14	5.8	1,000	1N6267ARL4GOSCT-ND◆	—	5.93	44.49	88.98	1N6267ARL4GOSTR-ND◆	237.00/M
9.5	10	10.5	8.55	10	1N6271AOS-ND	.76	6.09	45.71	97.35	—	—
9.5	10	10.5	8.55	10	1N6271AGOS-ND◆	.74	5.93	44.49	88.98	—	—
12.4	13	13.7	11.1	5	1N6274AGOS-ND◆	.74	5.93	44.49	88.98	—	—
14.3	15	15.8	12.8	5	1N6275AGOS-ND◆	.74	5.93	44.49	88.98	—	—
15.2	16	16.8	13.6	5	1N6276AGOS-ND◆	.74	5.93	44.49	88.98	—	—
17.1	18	18.9	15.3	5	1N6277AGOS-ND◆	.74	5.93	44.49	88.98	—	—
17.6	—	—	15	2	1N6377GOS-ND◆	.74	5.93	44.49	88.98	—	—
25.7	27	28.4	23.1	5	1N6281AGOS-ND◆	.74	5.93	44.49	88.98	—	—
28.5	30	31.5	25.6	5	1N6282ARL4GOSCT-ND◆	—	5.93	44.49	88.98	1N6282ARL4GOSTR-ND◆	237.00/M
31.4	33	34.7	28.2	5	1N6283AGOS-ND◆	.74	5.93	44.49	88.98	—	—
34.2	36	37.8	30.8	5	1N6284AGOS-ND◆	.74	5.93	44.49	88.98	—	—
37.1	39	41	33.3	5	1N6285AGOS-ND◆	.74	5.93	44.49	88.98	—	—
40.9	43	45.2	36.8	5	1N6286AGOS-ND◆	.74	5.93	44.49	88.98	—	—
44.7	47	49.4	40.2	5	1N6287AGOS-ND◆	.74	5.93	44.49	88.98	—	—
42.4	—	—	36	2	1N6380GOS-ND◆	.74	5.93	44.49	88.98	—	—
48.5	51	53.6	43.6	5	1N6288ARL4GOSCT-ND◆	—	5.93	44.49	88.98	1N6288ARL4GOSTR-ND◆	237.00/M
58.9	62	65.1	53	5	1N6290AGOS-ND◆	.74	5.93	44.49	88.98	—	—
86.5	91	95.5	77.8	5	1N6294ARL4GOSCT-ND◆	—	5.93	44.49	88.98	1N6294ARL4GOSTR-ND◆	237.00/M
95	100	105	85.5	5	1N6295AGOS-ND◆	1.31	11.38	87.50	183.75	—	—

◆ *RoHS Compliant*

ESD Protection Diodes

Fig. 1 — SOT-723

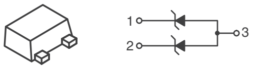

Fig. 2 — SOD-923

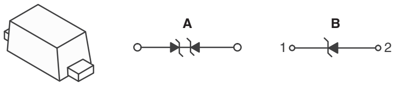

Fig.	Package	V_{BR} Min.	V_{RWM} Max. (V)	I_R @ V_{RWM} (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 8,000
1	SOT-723	5.0	3.3	1.0	ESD7C3.3DT5GOSCT-ND	.48	3.30	22.88	ESD7C3.3DT5GOSTR-ND	79.00/M
		11	5.0	0.5	ESD7C5.0DT5GOSCT-ND	.48	3.30	22.88	ESD7C5.0DT5GOSTR-ND	79.00/M
2A	SOD-923	5.0	5.0	1.0	ESD9B5.0ST5GOSCT-ND	.50	2.97	19.31	ESD9B5.0ST5GOSTR-ND	59.00/M
2B	SOD-923	5.0	3.3	1.0	ESD9C3.3ST5GOSCT-ND	.35	2.39	16.59	ESD9C3.3ST5GOSTR-ND	57.00/M
		11	5.0	0.5	ESD9C5.0ST5GOSCT-ND	.35	2.39	16.59	ESD9C5.0ST5GOSTR-ND	57.00/M

◆ *RoHS Compliant*

(Continued)

ESD TVS

Dimensions in mm.

Fig. 1 — SC-74

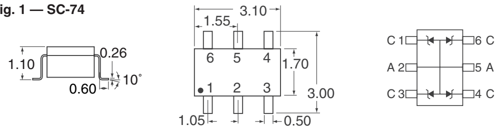

Fig. 2 — SOT-323

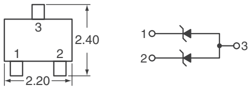

Fig. 3 — SOD-323

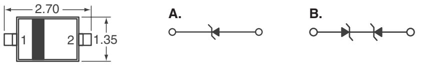

Fig. 4 — SC-89

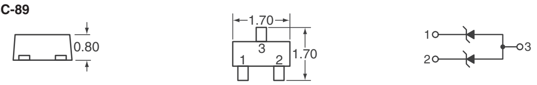

Fig. 5 — SOT-23

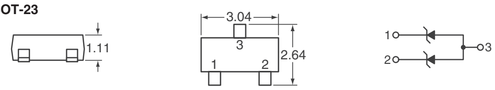

Fig.	Breakdown Voltage V_{BR}			V_{RWM} Min. (V)	I_R @ V_{RWM} (µA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing
	Min.	Nom.	Max.				10	100	250		3,000
1	5.32	5.6	5.88	3.0	2.0	MMQA5V6T1GOSCT-ND◆	3.44	24.20	44.00	MMQA5V6T1GOSTR-ND◆	99.00/M
	6.0	—	7.2	5.0	20	SMS05T1GOSCT-ND◆	3.75	27.00	50.63	SMS05T1GOSTR-ND◆	128.00/M
2	6.4	6.8	7.2	5.0	0.05	DF3A6.8FUT1GOSCT-ND◆	2.81	19.80	36.00	DF3A6.8FUT1GOSTR-ND◆	81.00/M
3A	6.2	—	7.3	5.0	10	SD05T1GOSCT-ND◆	3.30	22.88	41.25	SD05T1GOSTR-ND◆	88.00/M
	13.3	—	15.75	12.0	1.0	SD12T1GOSCT-ND◆	3.30	22.88	41.25	SD12T1GOSTR-ND◆	88.00/M
3B	13.3	—	—	12.0	1.0	SD12CT1GOSCT-ND	3.50	25.20	47.25	SD12CT1GOSTR-ND	119.00/M
4	5.32	5.6	5.88	3.0	5.0	NZL5V6AXV3T1GOSCT-ND◆	3.00	20.80	37.50	NZL5V6AXV3T1GOSTR-ND◆	80.00/M
	6.46	6.8	7.14	4.5	1.0	NZL6V8AXV3T1GOSCT-ND◆	3.00	20.80	37.50	NZL6V8AXV3T1GOSTR-ND◆	80.00/M
	7.12	7.5	7.88	5.0	1.0	NZL7V5AXV3T1GOSCT-ND◆	3.00	20.80	37.50	NZL7V5AXV3T1GOSTR-ND◆	80.00/M
5	6.2	—	7.3	5.0	10	SM05T1GOSCT-ND◆	3.56	25.63	48.06	SM05T1GOSTR-ND◆	121.00/M
	13.3	—	15.75	12.0	1.0	SM12T1GOSCT-ND◆	3.56	25.63	48.06	SM12T1GOSTR-ND◆	121.00/M

◆ *RoHS Compliant*

VISHAY Semiconductor ESD Protection Diodes

Fig. 1

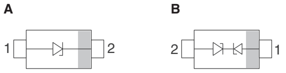

Fig. 2

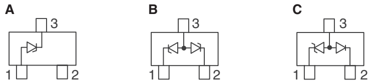

Fig. 3

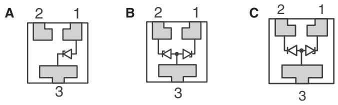

Fig. 4

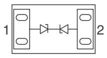

Fig. 5

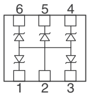

Fig. 6

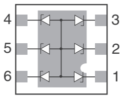

Fig. 7

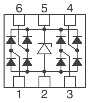

Fig. 8

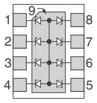

Fig.	Package	V_{BR} Minimum	Nominal	Vrwm Min. (V)	IR@Vrwm Max. (µA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Semiconductor Part No.
Surface Mount ESD Protection Zener Diodes													
1A	SMF®	6.4	—	5	400	751-1426-1-ND	.24	.21	.18	751-1426-2-ND	3,000	109.44/M	SMF5V0A-GS08
		7.22	—	6.5	250	751-1436-1-ND	.24	.21	.18	751-1436-2-ND	3,000	109.00/M	SMF6V5A-GS08
		11.1	—	10	2.5	751-1427-1-ND	.24	.21	.18	751-1427-2-ND	3,000	109.00/M	SMF10A-GS08
		13.3	—	12	2.5	751-1437-1-ND	.24	.21	.18	751-1437-2-ND	3,000	109.00/M	SMF12A-GS08
		16.7	—	15	1	751-1431-1-ND	.24	.21	.18	751-1431-2-ND	3,000	109.00/M	SMF15A-GS08
		20	—	18	1	751-1439-1-ND	.24	.21	.18	751-1439-2-ND	3,000	109.00/M	SMF18A-GS08
		26.7	—	24	1	751-1421-1-ND	.24	.21	.18	751-1421-2-ND	3,000	109.44/M	SMF24A-GS08
		36.7	—	33	1	751-1422-1-ND	.24	.21	.18	751-1422-2-ND	3,000	109.00/M	SMF33A-GS08
		40	—	36	1	751-1433-1-ND	.24	.21	.18	751-1433-2-ND	3,000	109.00/M	SMF36A-GS08
		47.8	—	43	1	751-1432-1-ND	.24	.21	.18	751-1432-2-ND	3,000	109.00/M	SMF43A-GS08
Bidirectional Asymmetrical (BiAs) Single Line ESD Protection Diodes													
1A	SOD-923	6	6.8	5	0.1	751-1428-1-ND	.18	.16	.13	751-1428-2-ND	8,000	71.00/M	VESD05A1B-02Z-GS08
1B		7.3	—	7	0.1	751-1409-1-ND	.14	.13	.11	751-1409-2-ND	8,000	57.00/M	VCUT0714A-02Z-GS08
Single-Line ESD Protection Diodes													
1A	SOD-523	4	—	3	20	751-1406-1-ND	.15	.14	.12	751-1406-2-ND	3,000	71.00/M	VESD03-02V-GS08
		6.5	—	5	0.1	751-1410-1-ND	.15	.14	.12	751-1410-2-ND	3,000	71.00/M	VESD05-02V-GS08
		6	6.8	5	0.1	751-1407-1-ND	.17	.15	.13	751-1407-2-ND	3,000	79.00/M	VESD05A1B-02V-GS08
		6	6.8	5	1	751-1440-1-ND	.17	.15	.13	751-1440-2-ND	3,000	79.00/M	VESD05A1-02V-GS08
		9	—	8	0.1	751-1438-1-ND	.15	.14	.12	751-1438-2-ND	3,000	71.00/M	VESD08-02V-GS08
2A	SOT-23	4	4.6	3.3	100	751-1397-1-ND	.14	.13	.11	751-1397-2-ND	3,000	65.00/M	GSOT03-GS08
		6	6.8	5	10	751-1416-1-ND	.14	.13	.11	751-1416-2-ND	3,000	65.00/M	GSOT05-GS08
		13.5	15	12	1	751-1393-1-ND	.14	.13	.11	751-1393-2-ND	3,000	81.00/M	GSOT12-GS08
		16.5	18	15	1	751-1405-1-ND	.14	.13	.11	751-1405-2-ND	3,000	65.00/M	GSOT15-GS08
3A	LLP75-3B	4	4.6	3.3	100	751-1402-1-ND	.24	.21	.17	751-1402-2-ND	3,000	108.00/M	GSOT03-HT3-GS08
		6	6.8	5	10	751-1408-1-ND	.24	.21	.17	751-1408-2-ND	3,000	108.00/M	GSOT05-HT3-GS08
		13.5	15	12	1	751-1418-1-ND	.24	.21	.17	751-1418-2-ND	3,000	108.00/M	GSOT12-HT3-GS08
		16.5	18	15	1	751-1400-1-ND	.24	.21	.17	751-1400-2-ND	3,000	108.00/M	GSOT15-HT3-GS08
Two-Line ESD Protection Diodes													
2B	SOT-23	4.5	5.3	3.8	100	751-1398-1-ND	.16	.14	.12	751-1398-2-ND	3,000	72.00/M	GSOT03C-GS08
		6.5	7.5	5.5	10	751-1415-1-ND	.16	.14	.12	751-1415-2-ND	3,000	72.00/M	GSOT05C-GS08
		9.5	10.7	8.5	5	751-1417-1-ND	.16	.14	.12	751-1417-2-ND	3,000	72.00/M	GSOT08C-GS08
		13.5	15.7	12.5	1	751-1414-1-ND	.16	.14	.12	751-1414-2-ND	3,000	72.00/M	GSOT12C-GS08
		39.5	43.7	36.5	1	751-1404-1-ND	.16	.14	.12	751-1404-2-ND	3,000	72.00/M	GSOT36C-GS08
3B	LLP75-3B	4	4.6	3.3	100	751-1396-1-ND	.25	.22	.18	751-1396-2-ND	3,000	115.00/M	GSOT03C-HT3-GS08
		6	6.8	5	10	751-1412-1-ND	.25	.22	.18	751-1412-2-ND	3,000	115.00/M	GSOT05C-HT3-GS08
		13.5	15	12	1	751-1411-1-ND	.25	.22	.18	751-1411-2-ND	3,000	115.00/M	GSOT12C-HT3-GS08
		39	43	36	1	751-1403-1-ND	.25	.22	.18	751-1403-2-ND	3,000	115.00/M	GSOT36C-HT3-GS08
High Speed ESD Protection Diodes													
2C	SOT-23	6	—	5	20	751-1395-1-ND	.14	.13	.11	751-1395-2-ND	3,000	65.00/M	GL05T-GS08

(Continued)

Semiconductor ESD Protection Diodes *(Cont.)*

Fig.	Package	VBR Minimum	VBR Nominal	Vrwm Min. (V)	IR@Vrwm Max. (µA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Semiconductor Part No.
2C	SOT-23	16.7	—	15	1	751-1419-1-ND	.14	.13	.11	751-1419-2-ND	3,000	65.00/M	GL15T-GS08
3C	LLP75-3B	6	—	5	20	751-1443-1-ND	.24	.21	.17	751-1443-2-ND	3,000	108.00/M	GL05-HT3-GS08
		16.7	—	15	1	751-1394-1-ND	.24	.21	.17	751-1394-2-ND	3,000	108.00/M	GL15-HT3-GS08
						Flip-Chip Protection Diode							
4	0402	6	—	5	20	751-1429-1-ND	.22	.19	.16	751-1429-2-ND	5,000	88.00/M	VESD05C-FC1-GS08
						ESD Protection Diode Arrays							
5	LLP75-6A	6	—	5 Max.	1	751-1413-1-ND	.44	.38	.32	751-1413-2-ND	3,000	202.00/M	GMF05C-HS3-GS08
		6	—	5	0.1	751-1423-1-ND	.44	.38	.32	751-1423-2-ND	3,000	202.00/M	GMF05LC-HS3-GS08
						Six-Line ESD Protection Diode Array							
6	LLP75-7A	6	6.6	5	1	751-1441-1-ND	.35	.30	.25	751-1441-2-ND	3,000	158.00/M	VESD05A6-HA3-GS08
						Four-Line BUS-port ESD Protection Diode							
7	LLP75-6A	6.9	7.9	5	0.1	751-1434-1-ND	.60	.52	.43	751-1434-2-ND	3,000	274.00/M	VBUS054B-HS3-GS08
						Eight-Line ESD Protection Diode Array							
8	LLP1713-9L	6	—	5	1	751-1435-1-ND	.41	.36	.30	751-1435-2-ND	3,000	187.00/M	VESD05A8A-HNH-GS08

EMI Filters with ESD Protection

Fig. 1

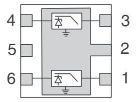

Fig. 2

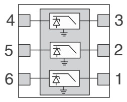

Fig. 3

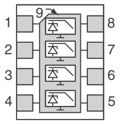

Fig. 4

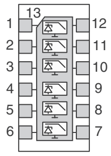

Fig. 5

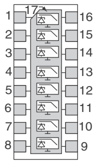

Fig.	Package	No. of Channels	V_{RWM} Min. (V)	I_R @ V_{RWM} Max. (µA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Vishay Semiconductor Part No.
1	LLP75-6A	2	5	1	751-1424-1-ND	.28	.25	.21	751-1424-2-ND	130.00/M	VEMI255A-HS3-GS08
2	LLP75-7A	3	5	1	751-1444-1-ND	.33	.29	.24	751-1444-2-ND	151.00/M	VEMI355A-HA3-GS08
3	LLP1713-9L	4	5	1	751-1420-1-ND	.38	.33	.27	751-1420-2-ND	173.00/M	VEMI45AA-HNH-GS08
4	LLP2513-DL	6	5	1	751-1425-1-ND	.47	.41	.34	751-1425-2-ND	202.50/M	VEMI65AA-HCI-GS08
5	LLP3313-HL	8	5	1	751-1430-1-ND	.57	.49	.41	751-1430-2-ND	226.80/M	VEMI85AA-HGK-GS08

General Semiconductor Transient Voltage Suppressors

Dimensions in mm

Fig. 1 — SMA, SMB, SMC

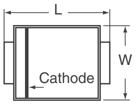

Fig. 2 — DO-204AC

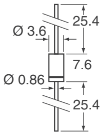

Fig. 3 — DO-215AA

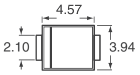

Fig. 4 — 1.5KE

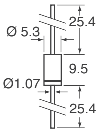

Fig. 5 — SMP

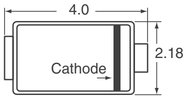

Fig. 6 — MicroSMP

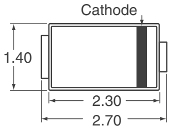

Fig.	P_W Watts	Breakdown Voltage V_{BR} Minimum	Maximum	I_T (mA)	Dimensions (mm) L	W	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
							Unidirectional						
1	300	111	123	1.0	5.28	2.79	SMAJ100A-E3/1GI-ND†	.33	2.79	23.28	—	—	—
	400	6.40	7.07	10	5.28	2.79	SMAJ5.0A-E3/1GI-ND†	.24	2.04	17.00	—	—	—
		6.40	7.07	10	5.28	2.79	SMAJ5.0A-E3/61GICT-ND	.27	2.45	20.40	SMAJ5.0A-E3/61GITR-ND	1,800	102.00/M
		11.1	12.3	1.0	5.28	2.79	SMAJ10A-E3/61GICT-ND	.27	2.45	20.40	SMAJ10A-E3/61GITR-ND	1,800	102.00/M
		13.3	14.7	1.0	5.28	2.79	SMAJ12A-E3/61GICT-ND	.27	2.45	20.40	SMAJ12A-E3/61GITR-ND	1,800	102.00/M
		16.7	18.5	1.0	5.28	2.79	SMAJ15A-E3/61GICT-ND	.27	2.45	20.40	SMAJ15A-E3/61GITR-ND	1,800	102.00/M
		20.0	22.1	1.0	5.28	2.79	SMAJ18A-E3/61GICT-ND	.27	2.45	20.40	SMAJ18A-E3/61GITR-ND	1,800	102.00/M
		24.4	26.9	1.0	5.28	2.79	SMAJ22A-E3/61GICT-ND	.27	2.45	20.40	—	—	—
		36.7	40.6	1.0	5.28	2.79	SMAJ33A-E3/61GICT-ND	.27	2.45	20.40	SMAJ33A-E3/61GITR-ND	1,800	102.00/M
		40.0	44.2	1.0	5.28	2.79	SMAJ36A-E3/1GI-ND†	.24	2.04	17.00	—	—	—
		40.0	44.2	1.0	5.28	2.79	SMAJ36A-E3/61GICT-ND	.27	2.45	20.40	SMAJ36A-E3/61GITR-ND	1,800	102.00/M
		44.4	49.1	1.0	5.28	2.79	SMAJ40A-E3/61GICT-ND	.27	2.45	20.40	SMAJ40A-E3/61GITR-ND	1,800	102.00/M
		66.7	73.7	1.0	5.28	2.79	SMAJ60A-E3/1GI-ND†	.24	2.04	17.00	—	—	—
	600	4.1	—	1.0	5.59	3.94	SMBJ3V3-E3/52GICT-ND	.39	3.30	27.53	SMBJ3V3-E3/52GITR-ND	750	123.75
		6.40	7.07	10	5.59	3.94	SMBJ5.0A-E3/52GICT-ND	.28	2.52	21.00	SMBJ5.0A-E3/52GITR-ND	750	78.75
		13.3	14.7	1.0	5.59	3.94	SMBJ12A-E3/52GICT-ND	.28	2.52	21.00	SMBJ12A-E3/52GITR-ND	750	78.75
		16.7	18.5	1.0	5.59	3.94	SMBJ15A-E3/52GICT-ND	.28	2.52	21.00	SMBJ15A-E3/52GITR-ND	750	78.75
		26.7	29.5	1.0	5.59	3.94	SMBJ24A-E3/52GICT-ND	.28	2.52	21.00	SMBJ24A-E3/52GITR-ND	750	78.75
		28.9	31.9	1.0	5.59	3.94	SMBJ26A-E3/1GI-ND†	.25	2.10	17.50	—	—	—
		44.4	49.1	1.0	5.59	3.94	SMBJ40A-E3/52GICT-ND	.28	2.52	21.00	SMBJ40A-E3/52GITR-ND	750	78.75
	1500	6.40	7.07	10	8.13	6.22	SMCJ5.0A-E3/57TGICT-ND	.60	5.40	45.00	SMCJ5.0A-E3/57TGITR-ND	850	191.25
		13.3	14.7	1.0	8.13	6.22	SMCJ12A-E3/57TGICT-ND	.60	5.40	45.00	SMCJ12A-E3/57TGITR-ND	850	191.25
		16.7	18.5	1.0	8.13	6.22	SMCJ15A-E3/57TGICT-ND	.60	5.40	45.00	SMCJ15A-E3/57TGITR-ND	850	191.25
		26.7	29.5	1.0	8.13	6.22	SMCJ24A-E3/57TGICT-ND	.60	5.40	45.00	SMCJ24A-E3/57TGITR-ND	850	191.25
		36.7	40.6	1.0	8.13	6.22	SMCJ33A-E3/51TGICT-ND	.60	5.40	45.00	SMCJ33A-E3/51TGITR-ND	2000	210.00/M
		40.0	44.2	1.0	8.13	6.22	SMCJ36A-E3/57TGICT-ND	.60	5.40	45.00	SMCJ36A-E3/57TGITR-ND	850	191.25
		44.4	49.1	1.0	8.13	6.22	SMCJ40A-E3/57TGICT-ND	.60	5.40	45.00	SMCJ40A-E3/57TGITR-ND	850	191.25
		209	231	1.0	8.13	6.22	SMCJ188A-E3/57TGICT-ND	.60	5.40	45.00	SMCJ188A-E3/57TGITR-ND	850	191.25
2	500	6.40	7.30	10	—	—	SA5.0-E3/1GI-ND†	.44	3.80	31.68	—	—	—
		33.3	36.8	1.0	—	—	SA30A-E3/1GI-ND†	.44	3.80	31.68	—	—	—
		83.3	92.1	1.0	—	—	SA75A-E3/1GI-ND†	.44	3.80	31.68	—	—	—
	600	6.45	7.14	10	—	—	P6KE6.8A-E3/1GI-ND†	.43	3.69	30.75	—	—	—

† Bulk

(Continued)

VISHAY. GENERAL SEMICONDUCTOR

Transient Voltage Suppressors *(Cont.)*

Fig.	P_W Watts	Breakdown Voltage V_{BR} Minimum	Maximum	I_T (mA)	Dimensions (mm) L	W	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
2	600	22.8	25.2	1.0	—	—	P6KE24A-E3/1GI-ND†	.31	2.64	22.03	—	—	—
3	600	13.3	14.7	1.0	—	—	SMBG12A-E3/1GI-ND†	.34	2.90	24.20	—	—	—
		14.4	15.9	1.0	—	—	SMBG13A-E3/5BGICT-ND	—	3.48	26.14	SMBG13A-E3/5BGITR-ND	3,200	138.00/M
4	1500	12.4	13.7	1.0	—	—	1.5KE13A-E3/1GI-ND†	.64	5.52	46.03	—	—	—
5	250	6.45	7.14	10	—	—	TPSMP6.8AHE3/84AGICT-ND	.24	2.07	17.23	TPSMP6.8AHE3/84AGITR-ND	3,000	103.00/M
	400	13.3	14.7	1.0	—	—	SMP12A-E3/84AGICT-ND	.16	1.38	11.50	SMP12A-E3/84AGITR-ND	3,000	69.00/M
		16.7	18.5	1.0	—	—	SMP15A-E3/84AGICT-ND	.16	1.38	11.50	SMP15A-E3/84AGITR-ND	3,000	69.00/M
		26.7	29.5	1.0	—	—	SMP24A-E3/84AGICT-ND	.16	1.38	11.50	SMP24A-E3/84AGITR-ND	3,000	69.00/M
		40.0	44.2	1.0	—	—	SMP36A-E3/84AGICT-ND	.16	1.38	11.50	SMP36A-E3/84AGITR-ND	3,000	69.00/M
		22.8	25.2	1.0	—	—	TPSMP24A-E3/84AGICT-ND	.34	2.90	24.15	TPSMP24A-E3/84AGITR-ND	3,000	145.00/M
		40.9	45.2	1.0	—	—	TPSMP43AHE3/84AGICT-ND	.34	2.90	24.15	TPSMP43AHE3/84AGITR-ND	3,000	435.00/M
6	100	4.1	—	1.0	—	—	MSP3V3-E3/89AGICT-ND	.30	2.58	21.48	MSP3V3-E3/89AGITR-ND	4,500	129.00/M
		6.40	7.07	10	—	—	MSP5.0A-E3/89AGICT-ND	.13	1.15	9.55	MSP5.0A-E3/89AGITR-ND	4,500	57.00/M
Bidirectional													
1	300	209	231	1.0	5.28	2.79	SMAJ188CA-E3/61GICT-ND	.31	2.83	23.55	SMAJ188CA-E3/61GITR-ND	1,800	118.00/M
	400	6.40	7.25	10	5.28	2.79	SMAJ5.0CA-E3/61GICT-ND	.31	2.83	23.55	SMAJ5.0CA-E3/61GITR-ND	1,800	118.00/M
		11.1	12.3	1.0	5.28	2.79	SMAJ10CA-E3/61GICT-ND	.31	2.83	23.55	SMAJ10CA-E3/61GITR-ND	1,800	118.00/M
		13.3	14.7	1.0	5.28	2.79	SMAJ12CA-E3/61GICT-ND	.31	2.83	23.55	SMAJ12CA-E3/61GITR-ND	1,800	118.00/M
		20.0	22.1	1.0	5.28	2.79	SMAJ18CA-E3/61GICT-ND	.31	2.83	23.55	SMAJ18CA-E3/61GITR-ND	1,800	118.00/M
		24.4	26.9	1.0	5.28	2.79	SMAJ22CA-E3/61GICT-ND	.31	2.83	23.55	—	—	—
		26.7	29.5	1.0	5.28	2.79	SMAJ24CA-E3/61GICT-ND	.31	2.83	23.55	SMAJ24CA-E3/61GITR-ND	1,800	118.00/M
		36.7	40.6	1.0	5.28	2.79	SMAJ33CA-E3/61GICT-ND	.31	2.83	23.55	SMAJ33CA-E3/61GITR-ND	1,800	118.00/M
		44.4	49.1	1.0	5.28	2.79	SMAJ40CA-E3/61GICT-ND	.31	2.83	23.55	SMAJ40CA-E3/61GITR-ND	1,800	118.00/M
	600	6.40	7.25	10	5.59	3.94	SMBJ5.0CA-E3/51GI-ND†	.26	2.25	18.75	—	—	—
		6.40	7.25	10	5.59	3.94	SMBJ5.0CA-E3/52GICT-ND	.30	2.70	22.50	SMBJ5.0CA-E3/52GITR-ND	750	84.75
		8.33	9.21	1.0	5.59	3.94	SMBJ7.5CA-E3/51GI-ND†	.26	2.25	18.75	—	—	—
		8.89	9.83	1.0	5.59	3.94	SMBJ8.0CA-E3/51GI-ND†	.26	2.25	18.75	—	—	—
		13.3	14.7	1.0	5.59	3.94	SMBJ12CA-E3/52GICT-ND	.30	2.70	22.50	SMBJ12CA-E3/52GITR-ND	750	84.75
		16.7	18.5	1.0	5.59	3.94	SMBJ15CA-E3/1GI-ND†	.48	4.15	34.58	—	—	—
		16.7	18.5	1.0	5.59	3.94	SMBJ15CA-E3/52GICT-ND	.30	2.70	22.50	SMBJ15CA-E3/52GITR-ND	750	84.75
		26.7	29.5	1.0	5.59	3.94	SMBJ24CA-E3/52GICT-ND	.30	2.70	22.50	SMBJ24CA-E3/52GITR-ND	750	84.75
		36.7	40.6	1.0	5.59	3.94	SMBJ33CA-E3/1GI-ND†	.26	2.25	18.75	—	—	—
		44.4	49.1	1.0	5.59	3.94	SMBJ40CA-E3/52GICT-ND	.30	2.70	22.50	SMBJ40CA-E3/52GITR-ND	750	84.75
		50.0	55.3	1.0	5.59	3.94	SMBJ45CA-E3/1GI-ND†	.26	2.25	18.75	—	—	—
		53.3	58.9	1.0	5.59	3.94	SMBJ48CA-E3/51GI-ND†	.26	2.25	18.75	—	—	—
	1500	6.40	7.25	10	8.13	6.22	SMCJ5.0CA-E3/57TGICT-ND	.70	6.30	52.50	SMCJ5.0CA-E3/57TGITR-ND	850	223.55
		13.3	14.7	1.0	8.13	6.22	SMCJ12CA-E3/57TGICT-ND	.70	6.30	52.50	SMCJ12CA-E3/57TGITR-ND	850	223.55
		16.7	18.5	1.0	8.13	6.22	SMCJ15CA-E3/57TGICT-ND	.70	6.30	52.50	SMCJ15CA-E3/57TGITR-ND	850	223.55
		26.7	29.5	1.0	8.13	6.22	SMCJ24CA-E3/57TGICT-ND	.70	6.30	52.50	SMCJ24CA-E3/57TGITR-ND	850	223.55
		33.3	36.8	1.0	8.13	6.22	SMCJ30CA-E3/1TGI-ND†	.61	5.25	43.75	—	—	—
		40.0	44.2	1.0	8.13	6.22	SMCJ36CA-E3/57TGICT-ND	.70	6.30	52.50	SMCJ36CA-E3/57TGITR-ND	850	223.55
		44.4	49.1	1.0	8.13	6.22	SMCJ40CA-E3/57TGICT-ND	.70	6.30	52.50	SMCJ40CA-E3/57TGITR-ND	850	223.55
		77.8	86.0	1.0	8.13	6.22	SMCJ70CA-E3/51GI-ND†	.61	5.25	43.75	—	—	—
		209	231	1.0	8.13	6.22	SMCJ188CA-E3/57TGICT-ND	.70	6.30	52.50	SMCJ188CA-E3/57TGITR-ND	850	223.55
2	500	13.3	14.7	1.0	—	—	SA12CA-E3/1GI-ND†	.49	4.18	34.83	—	—	—
	600	6.45	7.14	10	—	—	P6KE6.8CA-E3/1GI-ND†	.45	3.87	32.23	—	—	—
		34.2	37.8	1.0	—	—	P6KE36CA-E3/1GI-ND†	.50	4.28	35.63	—	—	—
4	1500	8.65	9.55	1.0	—	—	1.5KE9.1CA-E3/1GI-ND†	.85	7.25	60.43	—	—	—
		28.5	31.5	1.0	—	—	1.5KE30CA-E3/51GI-ND†	.95	8.11	67.58	—	—	—

† Bulk

NEW! ALPHA & OMEGA SEMICONDUCTOR Transient Voltage Suppressors

Digi-Reel® RoHS

Features:
Alpha & Omega Semiconductor, Inc. provides a family of ultra-low capacitance Transient Voltage Suppressor (TVS) products that are designed to protect high speed data interfaces from Electrostatic Discharge (ESD) and Lighting in mobile, digital consumer, networking, PC computing and PC peripheral applications.

Fig. 1 — SOT-23-6

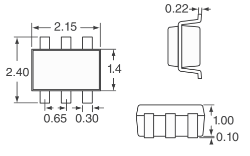

Fig. 2 — SC-89-6

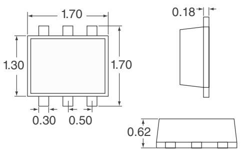

Fig. 3 — 10-MSOP

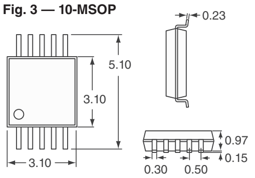

Fig. 4 — SOD-523

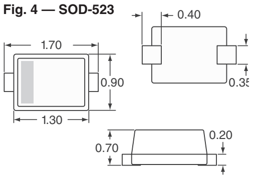

Fig. 5 — SOD-923

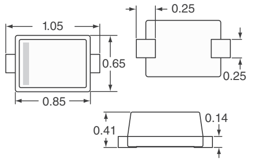

Fig.	Package	Reverse Breakdown Voltage V_{BR} Minimum	Typical	Vrwm Min. (V)	IR @Vrwm Max. (µA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Qty	Pricing	Alpha and Omega Semiconductor Part No.
1	SOT-23-6	6.6	—	5.0	0.1	785-1162-1-ND	.56	9.50	33.00	785-1162-2-ND	3,000	150.00/M	AOZ8000CI
2	SC-89-6	6.6	—	5.0	1.0	785-1163-1-ND	.50	8.55	29.70	785-1163-2-ND	3,000	135.00/M	AOZ8001KI
		8.0	—	5.0	0.1	785-1167-1-ND	.56	8.11	25.96	785-1167-2-ND	3,000	106.20/M	AOZ8204KI
		6.0	—	5.0	0.1	785-1168-1-ND	.48	7.94	26.22	785-1168-2-ND	3,000	117.30/M	AOZ8205KI
3	10-MSOP	6.6	—	5.0	1.0	785-1164-1-ND	.81	15.30	54.00	785-1164-2-ND	3,000	252.00/M	AOZ8005FI
		6.6	—	5.0	1.0	785-1165-1-ND	.81	15.30	54.00	785-1165-2-ND	3,000	252.00/M	AOZ8006FI
4	SOD-523	6.0	7.0	5.0	0.1	785-1166-1-ND	.45	6.46	20.68	785-1166-2-ND	3,000	84.60/M	AOZ8201NI-05
5	SOD-923	6.0	7.0	5.0	0.1	785-1169-1-ND	.53	7.70	24.64	785-1169-2-ND	8,000	95.20/M	AOZ8211NI-05

Voltage Regulators

Digi-Reel® RoHS

Features: "EZ" range or DC/DC regulators, Smart load switches and Battery protection.

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing† 3,000	Alpha and Omega Semiconductor Part No.
3A, 4.5V ~ 16V Buck Reg., 8-DFN..........	785-1148-1-ND	2.15	1.65	1.45	673.65/M	AOZ1012DI
5A, 4.5V ~ 16V Buck Reg., 8-SOIC.........	785-1149-1-ND	2.00	1.54	1.36	629.10/M	AOZ1014AI
5A, 4.5V ~ 16V Buck Reg., 8-DFN..........	785-1150-1-ND	2.12	1.63	1.43	664.20/M	AOZ1014DI
1.5A, 4.5V ~ 16V Non-Synchronous Buck Reg., 8-SOIC	785-1151-1-ND	1.62	1.25	1.10	507.60/M	AOZ1015AI
2A, 4.5V ~ 16V Buck Reg., 8-SOIC.........	785-1152-1-ND	2.00	1.54	1.35	626.40/M	AOZ1016AI
2A, 4.5V ~ 16V Buck Reg., 8-SOIC.........	785-1153-1-ND	1.39	1.07	.94	436.05/M	AOZ1019AI
2A, 4.5V ~ 16V Synchronous Buck Reg., 8-SOIC	785-1154-1-ND	1.50	1.15	1.01	469.80/M	AOZ1020AI
3A, 4.5V ~ 16V Synchronous Buck Reg., 8-SOIC	785-1155-1-ND	1.58	1.22	1.07	496.80/M	AOZ1021AI
3A, 4.5V ~ 16V Syn. Buck Reg., 8-DFN.....	785-1156-1-ND	1.75	1.35	1.19	550.80/M	AOZ1022DI
4A, 4.5V ~ 16V Syn. Buck Reg., 8-DFN.....	785-1157-1-ND	1.84	1.42	1.25	577.80/M	AOZ1024DI
2A, 4.5V ~ 27V Buck Reg., 8-SOIC.........	785-1158-1-ND	2.00	1.54	1.35	626.40/M	AOZ1210AI
3A, 4.5V ~ 27V Buck Reg., 8-SOIC.........	785-1159-1-ND	2.01	1.55	1.36	630.45/M	AOZ1212AI
3A, 4.5V ~ 27V Buck Reg., 8-DFN..........	785-1160-1-ND	2.11	1.62	1.43	661.50/M	AOZ1212DI
4A, 2.7V ~ 5.5V Programmable Distribution Switch, 8-SOIC..............	785-1161-1-ND	1.74	1.34	1.18	545.40/M	AOZ1300AI

† For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

•M•C•C•
Micro Commercial Components

Transient Voltage Suppressors

Digi-Reel® RoHS COMPLIANT

Fig. 1 — SMA – DO-214AC

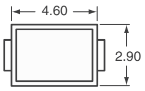

Fig. 2 — SMB - DO-214AA

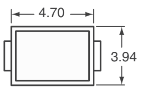

Fig. 3 — SMC - DO-214AB

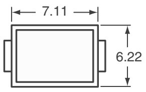

Fig. 4 — P6KE and SA - DO-15

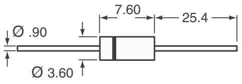

Fig. 5 — 1.5KE - DO-201AE

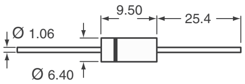

SMA — DO-214AC
Value Chart

5.0	20	75
6.0	22	78
6.5	24	85
7.0	26	90
7.5	28	100
8.0	30	110
9.0∆	33	120
10	36	130
11	40	150
12	43	160
13∆	45	170
14	48	
15	51∆	
16	60	
17	64	
18	70	

SMB — DO-214AA
Value Chart

5.0	10	17	30	51	78	150
6.0	11	18	33	54	85	160
6.5	12	20	36	58	90	170
7.0	13	22	40	60	100	
7.5	14	24	43∆	64	110	
8.0	15	26	45	70	120	
9.0	16	28	48	75	130	

P6KE — DO-15
Value Chart

6.8	20	68
7.5	24	100∆
8.2	27	150∆
10	30	
12	33	
15	51	

SMC — DO-214AB
Value Chart

5.0	10	17	30	51	78	150
6.0	11	18	33	54	85	160
6.5	12	20	36	58	90	170
7.0	13	22	40	60	100	
7.5	14	24	43	64	110	
8.0	15	26	45	70	120	
9.0	16	28	48	75	130	

1.5KE — DO-201AE
Value Chart

6.8
7.5
8.2
10
12

SA — DO-15
Value Chart

5.0∆	15
6.0	20
6.5	30
10	
12	

Fig.	Direction	Value Range	Watts	Package	Digi-Key Part No.†	Cut Tape Pricing 1	10	100	Tape & Reel‡ Qty.	Pricing
					SMA					
1	Unidirectional	5.0 ~ 170	400	DO-214AC	SMAJ(Value)A-TPMSCT-ND	.26	2.28	19.50	5,000	130.00/M
	Bidirectional	5.0 ~ 48	400	DO-214AC	SMAJ(Value)CA-TPMSCT-ND∆	.26	2.28	19.50	5,000	130.00/M
	Bidirectional	60 ~ 170	400	DO-214AC	SMAJ(Value)CA-TPMSCT-ND∆	.48	4.20	36.00	5,000	240.00/M
					SMB					
2	Unidirectional	5.0 ~ 170	600	DO-214AA	SMBJ(Value)A-TPMSCT-ND	.26	2.28	19.50	3,000	130.00/M
	Bidirectional	5.0 ~ 170	600	DO-214AA	SMBJ(Value)CA-TPMSCT-ND∆	.26	2.28	19.50	3,000	130.00/M
					SMC					
3	Unidirectional	5.0 ~ 170	1500	DO-214AB	SMCJ(Value)A-TPMSCT-ND	.80	7.00	60.00	3,000	400.00/M
	Bidirectional	5.0 ~ 170	1500	DO-214AB	SMCJ(Value)CA-TPMSCT-ND	1.00	8.75	75.00	3,000	500.00/M
	Unidirectional	5.0, 12, 24, 48	3000	DO-214AB	SMLJ(Value)A-TPMSCT-ND ***NEW!***	1.80	15.75	135.00	3,000	900.00/M
	Bidirectional	6.5, 40	3000	DO-214AB	SMLJ(Value)CA-TPMSCT-ND ***NEW!***	1.80	15.75	135.00	3,000	900.00/M
					SA					
4	Unidirectional	5.0 ~ 30	500	DO-15	SA(Value)A-TPMSCT-ND	.28	2.45	21.00	4,000	140.00/M
	Bidirectional	5.0 ~ 30	500	DO-15	SA(Value)CA-TPMSCT-ND∆	.28	2.45	21.00	4,000	140.00/M
					P6KE					
4	Unidirectional	6.8 ~ 150	600	DO-15	P6KE(Value)A-TPMSCT-ND∆	.28	2.45	21.00	4,000	140.00/M
	Bidirectional	6.8 ~ 150	600	DO-15	P6KE(Value)CA-TPMSCT-ND	.28	2.45	21.00	4,000	140.00/M
					1.5KE					
5	Unidirectional	6.8 ~ 12	1500	DO-201AE	1.5KE(Value)A-TPMSCT-ND	.52	4.55	39.00	1,200	292.50/M

† For complete part number, substitute the corresponding value from the Value Chart for (Value). ‡ For Tape and Reel part number, change CT-ND to TR-ND. ∆ Value not available

NEW! ESD – TVS

Digi-Reel® RoHS COMPLIANT

Fig. 1 — SOD-523

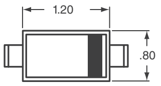

Fig. 2 — SOT-363

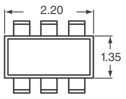

Fig. 3 — SOT-563

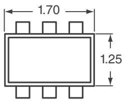

Fig. 4 — SOT-23

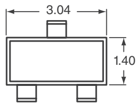

Fig.	V_{rwm} (V)	I_T (mA)	P_{pk} (W)	Digi-Key Part No.	Pricing 1	10	100	Digi-Key Part No.	T & R Pricing 3,000	MCC Part No.
1	3.3	1.0	158	ESD3V3D5-TPMSCT-ND	.12	1.05	9.00	ESD3V3D5-TPMSTR-ND	60.00/M	ESD3V3D5-TP
	5.0		174	ESD5V0D5-TPMSCT-ND	.12	1.05	9.00	ESD5V0D5-TPMSTR-ND	60.00/M	ESD5V0D5-TP
	7.0		200	ESD7V0D5-TPMSCT-ND	.12	1.05	9.00	ESD7V0D5-TPMSTR-ND	60.00/M	ESD7V0D5-TP
	12.0		240	ESD12VD5-TPMSCT-ND	.12	1.05	9.00	ESD12VD5-TPMSTR-ND	60.00/M	ESD12VD5-TP
2	5.0	1.0	100	ESD5V0K5-TPMSCT-ND	.30	2.63	22.50	ESD5V0K5-TPMSTR-ND	150.00/M	ESD5V0K5-TP
3	5.0	1.0	100	ESD5V0M5-TPMSCT-ND	.34	2.98	25.50	ESD5V0M5-TPMSTR-ND	170.00/M	ESD5V0M5-TP
4	5.0	1.0	300	SM05-TPMSCT-ND	.24	2.10	18.00	SM05-TPMSTR-ND	120.00/M	SM05-TP
	6.1		300	ESDA6V1L-TPCT-ND	.30	2.63	22.50	ESDA6V1L-TPTR-ND	150.00/M	ESDA6V1L-TP
	12.0		300	SM12-TPMSCT-ND	.24	2.10	18.00	SM12-TPMSTR-ND	120.00/M	SM12-TP

Littelfuse®
Expertise Applied | Answers Delivered

Teccor® SIDACtor® Product

Preliminary Balanced Line Protector

Digi-Reel®

General Description:

Balanced Protector is designed to offer customers a surface mount alternative to our traditional modified TO-220 package. Based on a 6-pin SOIC package, Balanced Protector is built using patented "Y" (US Patent 4,905,119) configuration and are available in surge current ratings of up to 500A.

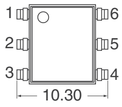

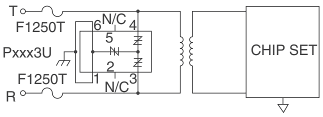

Series	I_{pp} 2 x 10μs (A)	I_{pp} 8 x 20μs (A)	I_{pp} 10 x 160μs (A)	I_{pp} 10 x 560μs (A)	I_{pp} 10 x 1000μs (A)	I_{TSM} 60Hz (A)	di/dt (A/μs)
C	500	400	200	150	100	50	500

V_{DRM} (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,500
200	270	8	800	150	P2353UCRPCT-ND	4.24	3.85	3.47	P2353UCRPTR-ND	2052.70/M

Teccor® SIDACtor® Product Surge Protection

Product Description:

SIDACtors® are solid state crowbar devices designed to protect telecom equipment during hazardous transient conditions. Capitalizing on the latest in thyristor advancements, Teccor designs their SIDACtors® with a patented ion implant technology. This technology ensures effective protection within nanoseconds, 500A surge current ratings, and simple solutions for regulatory requirements such as Bellcore 1089, TIA/EIA-1S-968, ITU-T K.20, ITU-T K.21 and UL60950.

Operation:

In the standby mode, SIDACtors® exhibit a high off-state impedance eliminating excessive leakage currents and appearing transparent to the circuits they protect. Upon application of a voltage exceeding the switching voltage (Vs), SIDACtors® will crowbar and simulate a short circuit condition until the current flowing through the device is either interrupted or drops below the SIDACtors® holding current (IH), once this occurs, SIDACtors® will reset and return to their high off-state impedance.

Surge Ratings

Surge Rating (Series)	I_{pp} 2 x 10µs (A)	I_{pp} 8 x 20µs (A)	I_{pp} 10 x 160µs (A)	I_{pp} 10 x 560µs (A)	I_{pp} 10 x 1000µs (A)	I_{TSM} 60Hz (A)	di/dt (A/µs)
A	150	150	90	50	45	20	500
B	250	250	150	100	80	30	500
C1	500	400	200	150	100	30	500
C2	500	400	200	150	100	50	500
E	—	5,000	—	—	—	400	630

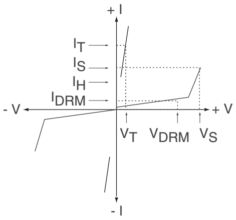

Fig. 1 — TO-92 (Isolated)

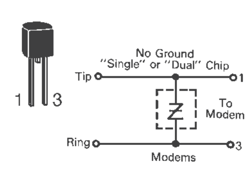

Fig. 2 — TO-220 No-Ground (Isolated)

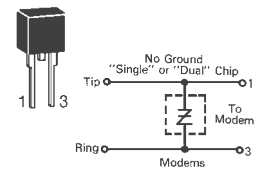

Fig. 3 — TO-220 (Isolated)

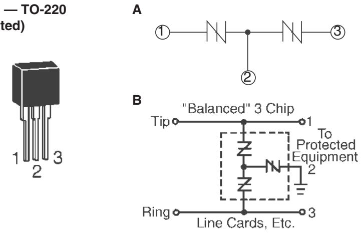

Fig. 4 — TO-218 (Non-isolated)

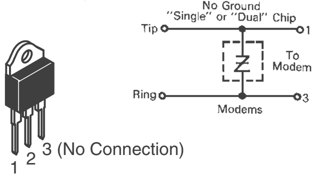

Fig. 5 — DO-214AA (Isolated)

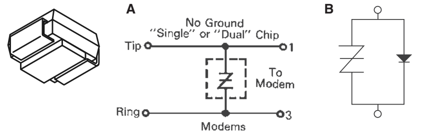

Fig. 6 — Modified DO-214AA (Isolated)

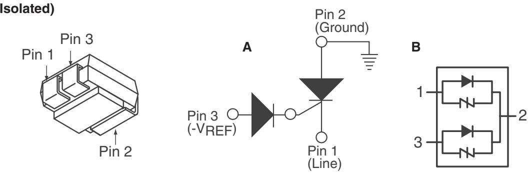

Fig. 7 — MS-013

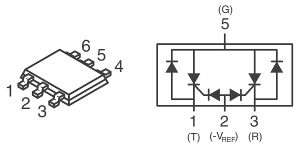

Fig.	Package	Surge Rating (Series)	V_{DRM} (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
1	TO-92	A	6	25	4	800	50	P0080EAL-ND◆	.65	.58	.52	.44	.38
			25	40				P0300EAL-ND◆	.65	.58	.52	.44	.38
			58	77			150	P0640EAL-ND◆	.65	.58	.52	.44	.38
			65	88				P0720EAL-ND◆	.65	.58	.52	.44	.38
			75	98				P0900EAL-ND◆	.65	.58	.52	.44	.38
			90	130				P1100EAL-ND◆	.65	.58	.52	.44	.38
			120	160				P1300EAL-ND◆	.65	.58	.52	.44	.38
			140	180				P1500EAL-ND◆	.65	.58	.52	.44	.38
			220	300				P2600EAL-ND◆	.65	.58	.52	.44	.38
			275	350				P3100EAL-ND◆	.65	.58	.52	.44	.38
		B	65	88	4	800	150	P0720EBL-ND◆	.72	.64	.58	.48	.42
			190	260				P2300EBL-ND◆	.72	.64	.58	.48	.42
			220	300				P2600EBL-ND◆	.72	.64	.58	.48	.42
			275	350				P3100EBL-ND◆	.72	.64	.58	.48	.42
			320	400				P3500EBL-ND◆	.72	.64	.58	.48	.42
		C1	25	40	4	800	50	P0300ECL-ND◆	.83	.74	.67	.56	.48
			190	260			150	P2300ECL-ND◆	.83	.74	.67	.56	.48
		C2	58	77	4	800	150	P0640ECL-ND◆	.83	.74	.67	.56	.48
			170	220				P1800ECL-ND◆	.83	.74	.67	.56	.48
			220	300				P2600ECL-ND◆	.83	.74	.67	.56	.48
			275	350				P3100EC-ND	.83	.74	.67	.56	.48
			275	350				P3100ECL-ND◆	.83	.74	.67	.56	.48
			320	400				P3500ECL-ND◆	.83	.74	.67	.56	.48
2	Modified TO-220	A	220	260	4	800	150	P2400AA61L-ND◆	1.41	1.25	1.13	.94	.82
			270	330				P3000AA61L-ND◆	1.41	1.25	1.13	.94	.82
3A	Modified TO-220	A	25	40	4	800	50	P0602AAL-ND◆	1.85	1.64	1.48	1.23	1.07
			58	77	4	800	150	P1402AAL-ND◆	1.85	1.64	1.48	1.23	1.07
		B	65	95	4	800	150	P1602ABL-ND◆	2.33	2.07	1.87	1.56	1.35
			90	130				P2202ABL-ND◆	2.33	2.07	1.87	1.56	1.35
			140	180				P3002AB-ND	2.33	2.07	1.87	1.56	1.35
			140	180				P3002ABL-ND◆	2.33	2.07	1.87	1.56	1.35
			220	300				P4802ABL-ND◆	2.33	2.07	1.87	1.56	1.35
			275	350				P6002ABL-ND◆	2.33	2.07	1.87	1.56	1.35
		C2	25	40	4	800	50	P0602ACL-ND◆	2.58	2.30	2.07	1.73	1.50
3B	Modified TO-220	A	200	270	8	800	150	P2353AAL-ND‡◆	2.33	2.07	1.87	1.56	1.35
			230	300				P2703AAL-ND‡◆	2.33	2.07	1.87	1.56	1.35
			270	350				P3203AAL-ND‡◆	2.33	2.07	1.87	1.56	1.35
		B	130	180	8	800	150	P1553ABL-ND‡◆	3.04	2.71	2.44	2.03	1.76
			170	250				P2103ABL-ND‡◆	3.04	2.71	2.44	2.03	1.76
			200	270				P2353ABL-ND‡◆	3.04	2.71	2.44	2.03	1.76
			230	300				P2703ABL-ND‡◆	3.04	2.71	2.44	2.03	1.76
			270	350				P3203ABL-ND‡◆	3.04	2.71	2.44	2.03	1.76
			300	400				P3403ABL-ND‡◆	3.04	2.71	2.44	2.03	1.76
		C2	130	180	8	800	150	P1553ACL-ND‡◆	3.37	3.00	2.70	2.25	1.95
			270	350				P3203ACL-ND‡◆	3.37	3.00	2.70	2.25	1.95
4	TO-218	E	140	220	4	800	50	P1900MEL-ND◆	9.87	8.78	7.90	6.59	5.71

◆ ***RoHS Compliant*** ‡ V_{DRM} and V_S between 1-2, 2-3

(Continued)

Fig.	Package	Surge Rating (Series)	V_{DRM} (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
									1	10	100		Qty.	Pricing
5A	DO-214 AA	A	6	25	4	800	50	P0080SALRPCT-ND◆	1.64	1.32	.99	P0080SALRPTR-ND◆	5,000	426.40/M
			6	25				P0080SAMCLRPCT-ND◆	1.85	1.48	1.11	P0080SAMCLRPTR-ND◆	2,500	479.70/M
			25	40				P0300SALRPCT-ND◆	1.64	1.32	.99	P0300SALRPTR-ND◆	2,500	426.40/M
			25	40				P0300SAMCLRPCT-ND◆	1.85	1.48	1.11	P0300SAMCLRPTR-ND◆	2,500	479.70/M
			58	77			120	P0642SALRPCT-ND◆	1.90	1.52	1.14	P0642SALRPTR-ND◆	5,000	492.70/M
			58	77			150	P0640SALRPCT-ND◆	1.64	1.32	.99	P0640SALRPTR-ND◆	2,500	426.40/M
			65	88				P0720SALRPCT-ND◆	1.64	1.32	.99	P0720SALRPTR-ND◆	2,500	426.40/M
			75	98				P0900SALRPCT-ND◆	1.64	1.32	.99	P0900SALRPTR-ND◆	2,500	426.40/M
			90	130				P1100SALRPCT-ND◆	1.64	1.32	.99	P1100SALRPTR-ND◆	2,500	426.40/M
			120	160				P1300SALRPCT-ND◆	1.64	1.32	.99	P1300SALRPTR-ND◆	2,500	426.40/M
			140	180				P1500SALRPCT-ND◆	1.64	1.32	.99	P1500SALRPTR-ND◆	2,500	426.40/M
			190	260				P2300SALRPCT-ND◆	1.64	1.32	.99	P2300SALRPTR-ND◆	2,500	426.40/M
			220	300				P2600SALRPCT-ND◆	1.64	1.32	.99	P2600SALRPTR-ND◆	2,500	426.40/M
			275	350				P3100SALRPCT-ND◆	1.64	1.32	.99	P3100SALRPTR-ND◆	2,500	426.40/M
			320	400				P3500SALRPCT-ND◆	1.64	1.32	.99	P3500SALRPTR-ND◆	2,500	426.40/M
		B	6	25	4	800	50	P0080SBLRPCT-ND◆	1.80	1.44	1.08	P0080SBLRPTR-ND◆	2,500	466.70/M
			25	40				P0300SBLRPCT-ND◆	1.80	1.44	1.08	P0300SBLRPTR-ND◆	2,500	466.70/M
			58	77			150	P0640SBLRPCT-ND◆	1.80	1.44	1.08	P0640SBLRPTR-ND◆	2,500	466.70/M
			90	130				P1100SBLRPCT-ND◆	1.80	1.44	1.08	P1100SBLRPTR-ND◆	2,500	466.70/M
			190	260				P2300SBLRPCT-ND◆	1.80	1.44	1.08	P2300SBLRPTR-ND◆	2,500	466.70/M
			275	350				P3100SBLRPCT-ND◆	1.80	1.44	1.08	P3100SBLRPTR-ND◆	2,500	466.70/M
			320	400				P3500SBLRPCT-ND◆	1.80	1.44	1.08	P3500SBLRPTR-ND◆	2,500	466.70/M
			220	300				P2600SBLRPCT-ND◆	1.80	1.44	1.08	P2600SBLRPTR-ND◆	2,500	466.70/M
		C1	6	25	4	800	50	P0080SCLRPCT-ND◆	2.00	1.60	1.20	P0080SCLRPTR-ND◆	2,500	520.00/M
			6	25				P0080SCMCLRPCT-ND◆	2.21	1.77	1.33	P0080SCMCLRPTR-ND◆	2,500	573.30/M
			25	40				P0300SCMCLRPCT-ND◆	2.21	1.77	1.33	P0300SCMCLRPTR-ND◆	2,500	573.30/M
			58	77			150	P0640SCMCLRPCT-ND◆	2.21	1.77	1.33	P0640SCMCLRPTR-ND◆	2,500	573.30/M
			65	88				P0720SCLRPCT-ND◆	2.00	1.60	1.20	P0720SCLRPTR-ND◆	2,500	520.00/M
			75	98				P0900SCLRPCT-ND◆	2.00	1.60	1.20	P0900SCLRPTR-ND◆	2,500	520.00/M
			90	130				P1100SCLRPCT-ND◆	2.00	1.60	1.20	P1100SCLRPTR-ND◆	2,500	520.00/M
			120	160				P1300SCLRPCT-ND◆	2.00	1.60	1.20	P1300SCLRPTR-ND◆	2,500	520.00/M
			170	220				P1800SCMCLRPCT-ND◆	2.21	1.77	1.33	P1800SCMCLRPTR-ND◆	2,500	573.30/M
			275	350				P3100SCMCLRPCT-ND◆	2.21	1.77	1.33	P3100SCMCLRPTR-ND◆	2,500	573.30/M
		C2	25	40	4	800	50	P0300SCLRPCT-ND◆	2.00	1.60	1.20	P0300SCLRPTR-ND◆	2,500	520.00/M
			58	77			150	P0640SCLRPCT-ND◆	2.00	1.60	1.20	P0640SCLRPTR-ND◆	2,500	520.00/M
			100	130			120	P1200SCLRPCT-ND◆	2.10	1.68	1.26	P1200SCLRPTR-ND◆	2,500	546.00/M
			140	180			150	P1500SCLRPCT-ND◆	2.00	1.60	1.20	P1500SCLRPTR-ND◆	2,500	520.00/M
			170	220				P1800SCLRPCT-ND◆	2.00	1.60	1.20	P1800SCLRPTR-ND◆	2,500	520.00/M
			220	300				P2600SCLRPCT-ND◆	2.00	1.60	1.20	P2600SCLRPTR-ND◆	2,500	520.00/M
			275	350				P3100SCLRPCT-ND◆	2.00	1.60	1.20	P3100SCLRPTR-ND◆	2,500	520.00/M
			320	400				P3500SCLRPCT-ND◆	2.00	1.60	1.20	P3500SCLRPTR-ND◆	2,500	520.00/M

◆ ***RoHS Compliant*** ‡ V_{DRM} and V_S between 1-2, 2-3

Subscriber Line Interface Circuit Protection (SLIC)

SLIC protectors provide circuit protection to Subscriber Line Interface Circuits, helping to protect from damaging transient voltage activity such as lightning and power cross conditions. These SLIC devices are very compact and provide the right protection to meet various telecom regulatory requirements.

Surge Rating (Series)	I_{pp} 2 x 10μs (A)	I_{pp} 8 x 20μs (A)	I_{pp} 10 x 160μs (A)	I_{pp} 10 x 560μs (A)	I_{pp} 10 x 1000μs (A)	I_{TSM} 60Hz (A)	di/dt (A/μs)
A1	150	150	90	60	50	20	500
A2	150	150	90	50	45	20	500
C	500	400	200	150	100	50	500

Fig.	Package	Surge Rating (Series)	V_{DRM} (V)	V_S (V)	V_T (V)	V_F (V)	I_{DRM} (μA)	I_{GT} (mA)	I_S (mA)	I_T (A)	I_H (mA)	C_O (pF)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel	
														1	10	100	500		Qty.	Pricing
													Fixed Voltage SLIC Protection							
5B	DO-214AA	A2	58	77	4	5	5	—	800	1	120	70	P0641SALRPCT-ND	1.75	1.40	1.05	.70	P0641SALRPTR-ND	2,500	453.70/M
		C	95	130	4	5	5	—	800	1	120	50	P1101SCLRPCT-ND	2.16	1.73	1.30	.87	P1101SCLRPTR-ND	5,000	560.30/M
													SLIC Battrax® Protection							
6A	Modified DO-214AA	A1	[-VREF]+[-1.2V]	[-VREF]+[-10V]	4	—	5	100	—	2.2	100	50	B1100CALRPCT-ND	2.16	1.73	1.30	.87	B1100CALRPTR-ND	2,500	560.30/M
		A2									200		B1200CALRPCT-ND	2.46	1.97	1.48	.99	B1200CALRPTR-ND	5,000	639.60/M
		C									100		B1100CCLRPCT-ND	3.69	2.96	2.22	1.48	B1100CCLRPTR-ND	2,500	959.40/M
		C									160		B1160CCLRPCT-ND	3.80	3.04	2.28	1.52	B1160CCLRPTR-ND	2,500	986.70/M
													TwinSLIC™ Protection							
6B	Modified DO-214AA	A2	95	130	4	5	5	—	800	1	120	25	P1101CA2LRPCT-ND	2.46	1.97	1.48	.99	P1101CA2LRPTR-ND	2,500	639.60/M
													Battrax Single Port Negative SLIC Protection							
7	Modified MS-013	C	[-V_{REF}]+[-1.2V]	[-V_{REF}]+[-10V]	4	5	5	100	—	2.2	100	50	B1101UCLRPCT-ND†	6.56	5.25	3.94	2.63	B1101UCLRPTR-ND†	1,500	1771.20/M

† Programmable device is referenced to a negative voltage source

TeleLink® SMD Fuse - 0461 Series

The TeleLink® Surface Mount surge resistant time lag fuse has been designed to offer the ultimate in circuit protection while meeting the necessary surge requirements of the telecommunications industry. When used in conjunction with the SIDACtor® they provide a complete regulatory compliant solution for standards such as Telcordia GR-1089-Core, TIA/EIA-968-A, UL60950.Specifications: Interrupting Values • Voltage Rating: 250V • Current Rating: 1.25A Surge Ratings: • 100A, 10 x 1000μs and 500A, 2 x 10μs • Designed specifically for telecommunications equipment

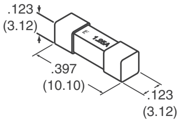

Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing
	1	10	100		2,500
F1250TRPCT-ND	2.34	1.88	1.41	F1250TRPTR-ND	608.40/M

Innovator in Electronics

NTSD1 Series - NTC Thermistors for Temperature Sensing

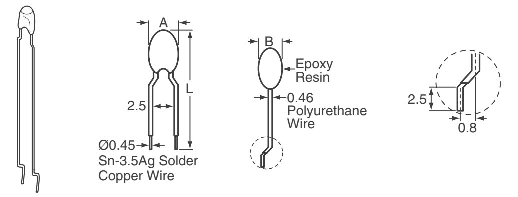

Features: • Electric insulation on lead wire • Excellent bending resistance and easy handling due to suitable hardness of surface coating • High-accuracy of ±1% of resistance and B-Constant tolerance are realized due to uniform thickness by the precise sheet forming method

Specifications: • Thermal Time Constant (25°C): 7 Seconds • Operating Temperature Range: -40°C ~ 125°C

Resistance 25°C (kΩ) ±1%	B-Constant 25-50°C (k) ±1%	Permissive Operating Current 25°C (mA)	Rated Electric Power 25°C (mW)	Typical Dissipation Constant 25°C (mW/°C)	Dimensions - mm A	B	L	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
2.0	3500	1.05	21	2.1	3.8	2.5	30	490-4651-ND	.55	3.35	25.33	NTSD1XM202FPB30
5.0	3700	0.68	21	2.1	3.0	2.0	30	490-4652-ND	.55	3.35	25.33	NTSD1XR502FPB30
10	3380	0.38	15	1.5	3.0	2.0	30	490-4653-ND	.55	3.35	25.33	NTSD1XH103FPB30
20	4050	0.31	21	2.1	3.8	2.5	30	490-4654-ND	.59	3.60	27.20	NTSD1WB203FPB30
30	4100	0.26	21	2.1	3.8	2.5	30	490-4655-ND	.55	3.35	25.33	NTSD1WC303FPB30
50	4150	0.20	21	2.1	3.0	2.0	30	490-4656-ND	.55	3.35	25.33	NTSD1WD503FPB30
100	4250	0.14	21	2.1	3.0	2.0	30	490-4657-ND	.55	3.35	25.33	NTSD1WF104FPB30
2.0	3500	1.05	21	2.1	3.8	2.5	40	490-4658-ND	.59	3.60	27.20	NTSD1XM202FPB40
5.0	3700	0.68	21	2.1	3.0	2.0	40	490-4659-ND	.59	3.60	27.20	NTSD1XR502FPB40
10	3380	0.38	15	1.5	3.0	2.0	40	490-4660-ND	.55	3.35	25.33	NTSD1XH103FPB40
20	4050	0.31	21	2.1	3.8	2.5	40	490-4661-ND	.55	3.35	25.33	NTSD1WB203FPB40
30	4100	0.26	21	2.1	3.8	2.5	40	490-4662-ND	.59	3.60	27.20	NTSD1WC303FPB40
50	4150	0.20	21	2.1	3.0	2.0	40	490-4663-ND	.33	2.00	15.13	NTSD1WD503FPB40
100	4250	0.14	21	2.1	3.0	2.0	40	490-4664-ND	.55	3.35	25.33	NTSD1WF104FPB40
2.0	3500	1.05	21	2.1	3.8	2.5	50	490-4665-ND	.59	3.60	27.20	NTSD1XM202FPB50
5.0	3700	0.68	21	2.1	3.0	2.0	50	490-4666-ND	.59	3.60	27.20	NTSD1XR502FPB50
10	3380	0.38	15	1.5	3.0	2.0	50	490-4667-ND	.55	3.35	25.33	NTSD1XH103FPB50
20	4050	0.31	21	2.1	3.8	2.5	50	490-4668-ND	.55	3.35	25.33	NTSD1WB203FPB50
30	4100	0.26	21	2.1	3.8	2.5	50	490-4669-ND	.59	3.60	27.20	NTSD1WC303FPB50
50	4150	0.20	21	2.1	3.0	2.0	50	490-4670-ND	.55	3.35	25.33	NTSD1WD503FPB50
100	4250	0.14	21	2.1	3.0	2.0	50	490-4671-ND	.55	3.35	25.33	NTSD1WF104FPB50

NTPA Series - Inrush Current Limiters

Fig. 1

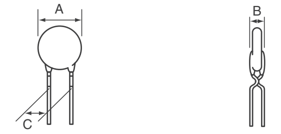

Fig. 2

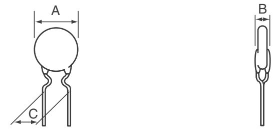

Fig. 3

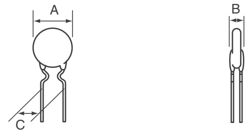

Fig.	Resistance 25°C (Ω) ±15%	Permissible Maximum Current 25°C (A)	Permissible Maximum Current 55°C (A)	Thermal Time Constant 25°C (s)	Thermal Dissipation Constant (mW/°C)	Permissible Electrolytic Capacitor (µF)	Dimensions - mm A	B	C	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
1	3.0	5.4	4.7	135	26.8	8,600 @ 100V	23.0	5.5	10.0	490-3942-ND	1.57	9.64	72.81	NTPAN3R0LDKB0
	4.0	4.7	4.1	130	26.8	8,600 @ 100V	23.0	5.5	10.0	490-3943-ND	1.57	9.64	72.81	NTPAN4R0LDKB0
	6.0	3.9	3.4	130	26.8	8,600 @ 100V	23.0	5.5	10.0	490-3944-ND	1.57	9.64	72.81	NTPAN6R0LDKB0
	4.0	4.0	3.5	125	21.8	5,000 @ 100V	20.0	5.5	10.0	490-3945-ND	1.09	6.71	50.66	NTPAJ4R0LDKB0
	6.0	3.4	2.9	125	21.8	5,000 @ 100V	20.0	5.5	10.0	490-3946-ND	1.09	6.71	50.66	NTPAJ6R0LDKB0
	8.0	3.0	2.6	130	21.8	5,000 @ 100V	20.0	5.5	10.0	490-3947-ND	1.09	6.71	50.66	NTPAJ8R0LDKB0
	10.0	2.6	2.2	130	21.8	5,000 @ 100V	20.0	5.5	10.0	490-3948-ND	1.09	6.71	50.66	NTPAJ100LDKB0
2	3.9	3.3	2.9	65	18.2	2,700 @ 100V	16.0	5.5	7.5	490-3949-ND	.74	4.53	34.22	NTPAD3R9LDNB0
	5.1	3.0	2.6	85	18.8	2,700 @ 100V	16.0	5.5	7.5	490-3950-ND	.74	4.53	34.22	NTPAD5R1LDNB0
	8.0	2.7	2.3	65	18.7	2,700 @ 100V	16.0	5.5	7.5	490-3951-ND	.74	4.53	34.22	NTPAD8R0LDNB0
	16.0	2.0	1.7	100	19.1	2,700 @ 100V	16.0	5.5	7.5	490-3952-ND	.76	4.69	35.43	NTPAD160LDNB0
	2.2	3.7	3.2	70	13.5	1,400 @ 100V	12.0	5.0	7.5	490-3953-ND	.52	3.17	23.99	NTPAA2R2LDNB0
	3.9	2.7	2.3	70	13.5	1,400 @ 100V	12.0	5.0	7.5	490-3954-ND	.52	3.17	23.99	NTPAA3R9LDNB0
	5.1	2.5	2.2	70	13.5	1,400 @ 100V	12.0	5.0	7.5	490-3955-ND	.52	3.17	23.99	NTPAA5R1LDNB0
	8.2	2.0	1.7	70	13.5	1,400 @ 100V	12.0	5.0	7.5	490-3956-ND	.52	3.17	23.99	NTPAA8R2LDNB0
	10.0	1.7	1.5	70	13.5	1,400 @ 100V	12.0	5.0	7.5	490-3957-ND	.52	3.17	23.97	NTPAA100LDNB0
3	16.0	1.4	1.2	65	11.6	800 @ 100V	11.0	5.0	5.0	490-3958-ND	.52	3.17	23.97	NTPA9160LBMB0
	4.0	2.3	2.0	40	9.4	700 @ 100V	9.0	5.0	5.0	490-3959-ND	.30	1.83	13.80	NTPA74R0LBMB0
	8.0	1.7	1.5	40	9.5	570 @ 100V	9.0	5.0	5.0	490-3960-ND	.30	1.83	13.80	NTPA78R0LBMB0
	16.0	1.2	1.0	40	9.9	400 @ 100V	9.0	5.0	5.0	490-3961-ND	.30	1.83	13.80	NTPA7160LBMB0
	22.0	1.0	0.88	40	9.1	400 @ 100V	9.0	5.0	5.0	490-3962-ND	.30	1.83	13.80	NTPA7220LBMB0

POSISTOR® PTC Thermistors for Heaters

Features:

- The heater element regulates designated temperature range
- Output wattage is decreased automatically when heat radiation is decreased
- Compact and flat surface shall realize easy to install for various set
- Depending on application, these PTC realize dual voltage use

Applications:

• Heated Vessels • Contact Lens Cleaner • Portable Travel Iron • Massager • Fragrance • Electric Pot

Dimensions in mm

Fig. 1

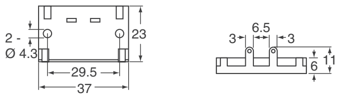

Fig. 2

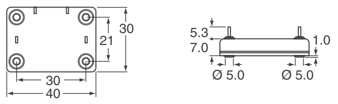

Fig.	Maximum Voltage (Vrms)	Curie Point (°C)	Inrush Current (Maximum)	Minimum Resistance Value @ 25°C (Ω)	Maximum Resistance Value @ 25°C (Ω)	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
1	260	90 ±7	5.0A	200	1200	490-4811-ND	11.13	10.00	7.88	PTWSB1BC201T260A00
		135 ±7				490-4812-ND	11.13	10.00	7.88	PTWSB1AS201T260A00
		200 ±7				490-4813-ND	11.13	10.00	7.88	PTWSB2AH201T260A00
		225 ±7				490-4814-ND	11.13	10.00	7.88	PTWSB2AG201T260A00
2	260	280 ±7	10.0A	200	1200	490-4815-ND	18.69	16.80	13.23	PTWTA1AD201T260A00

POSISTOR® Circuit Protection for Overcurrent Protection

Overcurrent Protection device with resettable function suitable for current limiting resistor. This product is chip type PTC thermistor for overcurrent protection. Suitable for counter-measure for short circuit testing in portable equipment and current limiting resistor.

Features: • Rapid operation to protect the circuit in an overcurrent condition abnormality such as a short circuit • By removing the overcurrent condition, these products automatically return to the initial condition and can be used repeatedly • Stable resistance after operation due to ceramic PTC • 0603 SMD type for reflow soldering • Lead is not contained in the terminations

Part No.	Dimensions (mm)						
	L	W	T	e	a	b	c
PRG18_RB	1.6 ±0.15	0.8 ±0.15	0.8 ±0.15	0.1 ~ 0.6	0.6 ~ 0.8	0.6 ~ 0.7	0.6 ~ 0.8
PRG21_RA	2.0 ±0.2	1.25 ±0.2	0.9 ±0.2	0.2 min.	1.0 ~ 1.2	0.5 ~ 0.7	1.0 ~ 1.2
PRG21_RK	2.0 ±0.2	1.25 ±0.2	1.25 ±0.2	0.2 min.	1.0 ~ 1.2	0.5 ~ 0.7	1.0 ~ 1.2

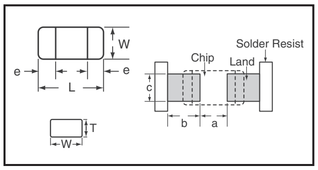

Maximum Voltage (V)	Non-operating Current @ 60°C (mA)	Trip Current @ -10°C (mA)	Max. Current (mA)	Resistance @ 25°C (Ω) ±20%	Curie Point (°C)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Murata Part No.
							1	10	100		Qty.	Pricing	
24	7	25	60	470	100	490-2473-1-ND	.33	.29	.23	490-2473-2-ND	4,000	123.00/M	PRG18BB471MB1RB
	10	35	130	220	100	490-2470-1-ND	.33	.29	.23	490-2470-2-ND	4,000	123.00/M	PRG18BB221MB1RB
	15	55	300	100	100	490-2469-1-ND	.33	.29	.23	490-2469-2-ND	4,000	123.00/M	PRG18BB101MB1RB
	20	75	630	47	100	490-2472-1-ND	.33	.29	.23	490-2472-2-ND	4,000	123.00/M	PRG18BB470MB1RB
	25	85	900	33	100	490-2471-1-ND	.33	.29	.23	490-2471-2-ND	4,000	123.00/M	PRG18BB330MB1RB
20	30	110	1,100	22	100	490-3989-1-ND	.46	.39	.34	490-3989-2-ND	3,000	229.00/M	PRG21BB220MB1RK
	40	140	1,600	15	100	490-3990-1-ND	.46	.39	.34	490-3990-2-ND	3,000	229.00/M	PRG21BB150MB1RK
	80	320	3,500	6.8	90	490-4673-1-ND	.79	.70	.55	490-4673-2-ND	4,000	297.00/M	PRG21BC6R8MM1RA
	100	400	5,000	4.7	90	490-4672-1-ND	.79	.70	.55	490-4672-2-ND	4,000	297.00/M	PRG21BC4R7MM1RA
6	500	2,000	10,000	0.2	90	490-3988-1-ND	.64	.55	.48	490-3988-2-ND	4,000	297.00/M	PRG21BC0R2MM1RA

POSISTOR® Circuit Protection for Overheat Sensing Chip Type

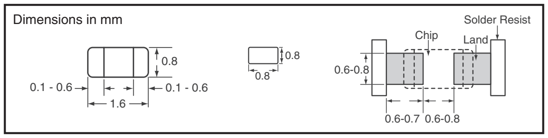

This chip PTC Thermistor is reflow soldering SMD type for overheat sensing for power transistors, power diodes and power ICs in hybrid circuits

Features: • Excellent thermal response because of no coating • Solid-state construction provides excellent mechanical vibration and impact resistance • Contact-less operation provides prolonged service life and noiseless operation • Lead is not contained in the terminations

Sensing Temp. @ 4.7kΩ (°C)	Maximum Voltage (V)	Resistance @ 25°C (Ω) ±50%	Curie Point (°C)	Operating Temperature Range (°C)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 4,000	Murata Part No.
						1	10	100			
65 ±5	32	470	50	-20 ~ 80	490-2468-1-ND	.38	.34	.27	490-2468-2-ND	144.00/M	PRF18BG471QB1RB
75 ±5			60	-20 ~ 90	490-2467-1-ND	.38	.34	.27	490-2467-2-ND	144.00/M	PRF18BF471QB1RB
85 ±5			70	-20 ~ 100	490-2466-1-ND	.38	.34	.27	490-2466-2-ND	144.00/M	PRF18BE471QB1RB
95 ±5			80	-20 ~ 110	490-2465-1-ND	.38	.34	.27	490-2465-2-ND	144.00/M	PRF18BD471QB1RB
105 ±5			90	-20 ~ 120	490-2464-1-ND	.38	.34	.27	490-2464-2-ND	144.00/M	PRF18BC471QB1RB
115 ±5	32	470	100	-20 ~ 130	490-2463-1-ND	.38	.34	.27	490-2463-2-ND	144.00/M	PRF18BB471QB1RB
125 ±5			110	-20 ~ 140	490-2462-1-ND	.38	.34	.27	490-2462-2-ND	144.00/M	PRF18BA471QB1RB
135 ±5			120	-20 ~ 150	490-2460-1-ND	.38	.34	.27	490-2460-2-ND	144.00/M	PRF18AR471QB1RB
145 ±5			130	-20 ~ 160	490-2461-1-ND	.38	.34	.27	—	—	PRF18AS471QB1RB
85 ±3	32	470	—	-20 ~ 100	490-4807-1-ND	.44	.39	.31	490-4807-2-ND	165.00/M	PRF18BE471RB1RB
95 ±3				-20 ~ 110	490-4806-1-ND	.44	.39	.31	490-4806-2-ND	165.00/M	PRF18BD471RB1RB
105 ±3				-20 ~ 120	490-4805-1-ND	.44	.39	.31	490-4805-2-ND	165.00/M	PRF18BC471RB1RB
115 ±3				-20 ~ 130	490-4804-1-ND	.44	.39	.31	490-4804-2-ND	165.00/M	PRF18BB471RB1RB

POSISTOR® Narrow Current Band – PTC Thermistors

For Overcurrent Protection

Dimensions in mm

Fig. 1

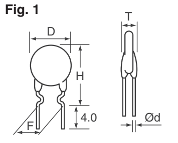

Fig. 2

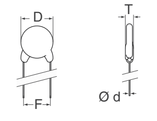

Fig. 3

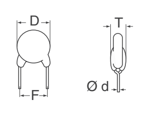

This product is leaded type PTC thermistor for overcurrent protection which is suitable for the current limiting resistor.

Features: • Small fluctuation in the circuit due to resistance tolerance ±10% • Narrow current range between operating and non-operating current at -10°C ~ 60°C • Quick operating time due to small size compared with conventional products • Best suited to meet the requirements for power supply and motor protector • Circuit is protected until current is turned off

Fig.	Max. Voltage (V)	Non-Operating Current @ 60°C (mA)	Trip Current @ -10°C (mA)	Max. Current (A)	Resistance @ 25°C (Ω) ± %	Curie Point (°C)	Body Diameter Dim. D (mm)	Thickness Dim. T (mm)	Height Dim. H (mm)	Lead Space Dim. F (mm)	Lead Diameter (phi d) (mm)	Digi-Key Part No.	Price Each			Murata Part No.
													1	10	100	
1	30	122	240	1.5	10 ±10	130	4.5	3.5	9.5	5.0	0.5	490-3963-ND	.52	.47	.37	PTGL04AS100K2N51B0
		167	330	2.0	10 ±10	130	4.5	3.5	9.5	5.0	0.6	490-3964-ND	.52	.47	.37	PTGL04AS100K2B51B0
		269	530	3.5	3.9 ±10	130	5.5	3.5	10.5	5.0	0.6	490-3965-ND	.56	.51	.40	PTGL05AS3R9K2B51B0
		336	663	4.5	2.7 ±10	130	7.3	3.5	12.3	5.0	0.6	490-3966-ND	.61	.55	.43	PTGL07AS2R7K2B51B0
		420	829	5.0	1.8 ±10	130	7.3	3.5	12.3	5.0	0.6	490-3967-ND	.67	.61	.48	PTGL07AS1R8K2B51B0
		556	1097	6.0	1.2 ±10	130	9.3	3.5	14.3	5.0	0.6	490-3968-ND	.88	.80	.63	PTGL09AS1R2K2B51B0
		685	1352	7.0	0.8 ±10	130	11.5	3.5	16.5	5.0	0.6	490-3969-ND	1.29	1.16	.92	PTGL12AS0R8K2B51B0
	51	168	332	1.0	10 ±10	130	4.5	4.5	9.5	5.0	0.6	490-3970-ND	.52	.47	.37	PTGL04AS100K3B51B0
		197	388	1.5	6.8 ±10	130	5.5	5.5	10.5	5.0	0.6	490-3971-ND	.58	.53	.42	PTGL05AS6R8K3B51B0
		307	606	3.0	3.3 ±10	130	7.3	7.3	12.3	5.0	0.6	490-3972-ND	.61	.55	.43	PTGL07AS3R3K3B51B0
		412	814	4.0	2.2 ±10	130	9.3	9.3	14.3	5.0	0.6	490-3973-ND	.88	.80	.63	PTGL09AS2R2K3B51B0
		592	1168	5.0	1.2 ±10	130	11.5	11.5	16.5	5.0	0.6	490-3974-ND	1.28	1.16	.91	PTGL12AS1R2K3B51B0
	60	88	175	1.0	22 ±10	130	4.5	4.5	9.5	5.0	0.5	490-3975-ND	.52	.47	.37	PTGL04AS220K4N51B0
		115	226	1.0	22 ±10	130	4.5	4.5	9.5	5.0	0.6	490-3976-ND	.52	.47	.37	PTGL04AS220K4B51B0
		170	335	1.5	10 ±10	130	5.5	5.5	10.5	5.0	0.6	490-3977-ND	.56	.51	.40	PTGL05AS100K4B51B0
		186	368	2.2	5.6 ±10	130	7.3	7.3	12.3	5.0	0.5	490-3978-ND	.61	.55	.43	PTGL07AS5R6K4N51B0
		229	452	3.0	5.6 ±10	130	7.3	7.3	12.3	5.0	0.6	490-3979-ND	.67	.60	.48	PTGL07AS5R6K4B51B0
		333	656	4.0	3.3 ±10	130	9.3	9.3	14.3	5.0	0.6	490-3980-ND	.99	.89	.71	PTGL09AS3R3K4B51B0
		439	867	5.0	2.2 ±10	130	11.5	11.5	16.5	5.0	0.6	490-3981-ND	1.27	1.15	.90	PTGL12AS2R2K4B51B0
	140	74	147	0.5	56 ±10	130	5.5	5.5	10.5	5.0	0.6	490-3982-ND	.51	.47	.37	PTGL04AS560K6B51B0
		106	209	1.0	27 ±10	130	5.5	5.5	10.5	5.0	0.6	490-3983-ND	.58	.53	.42	PTGL05AS270K6B51B0
		148	292	1.5	15 ±10	130	7.3	7.3	12.3	5.0	0.6	490-3984-ND	.72	.65	.52	PTGL07AS150K6B51B0
		192	380	2.0	12 ±10	130	9.3	9.3	14.3	5.0	0.6	490-3985-ND	1.10	.99	.78	PTGL09AS120K6B51B0
		227	447	2.2	7.6 ±10	130	9.3	9.3	14.3	5.0	0.6	490-3986-ND	.99	.89	.71	PTGL09AS7R6K6B51B0
		310	613	3.5	4.7 ±10	130	11.5	11.5	16.5	5.0	0.6	490-3987-ND	1.26	1.14	.90	PTGL12AS4R7K6B51B0
2	250	90	300	0.5	22 ±30	—	8.0	6.0	—	5.0	0.6	490-4808-1-ND†	.47	.42	.33	PTGL07BB220N0B52A0
		90	300	0.5	22 ±30	—	8.0	6.0	—	5.0	0.6	490-4808-3-ND‡	197.00/1,000			PTGL07BB220N0B52A0
		100	280	0.6	39 ±30	—	10.0	6.0	—	5.0	0.6	490-4809-1-ND†	.57	.51	.40	PTGL09AR390N0B52A0
		100	280	0.6	39 ±30	—	10.0	6.0	—	5.0	0.6	490-4809-3-ND‡	216.00/1,000			PTGL09AR390N0B52A0
3	265	118	330	1.0	25 ±25	—	10.0	6.0	—	5.0	0.6	490-4810-ND	1.09	.98	.78	PTGL09AR250H8B52B0

† Cut Tape ‡ Tape and Box

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

GE Sensing

PTC Thermistors

PTC (Positive Temperature Coefficient) Thermistors are thermally sensitive resistors made of polycrystalline ceramic materials. They are characterized by an extremely large resistance change in a small temperature span.

- All PTC resistances ±30% at 25°C
- Tolerance on transition temperature is ±7°C

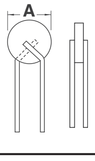

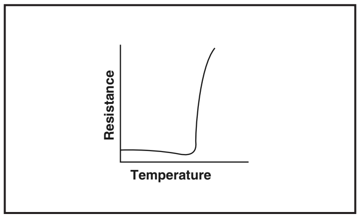

Oper. Volt.	R @ 25°C (Ω)	Transition Temperature	D.C.†	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	100
12	1	120°C	14.0	15.24	235-1129-ND◆	3.79	3.41	2.69
12	2	120°C	14.0	15.24	235-1130-ND	3.79	3.41	2.69
12	10	110°C	7.0	8.89	235-1131-ND	1.86	1.67	1.32
12	25	110°C	7.0	8.89	235-1132-ND◆	1.86	1.67	1.32
25	50	30°C	7.0	7.62	235-1120-ND*	1.86	1.67	1.32
25	50	40°C	7.0	7.62	235-1121-ND◆*	1.86	1.67	1.32
25	50	50°C	7.0	7.62	235-1122-ND◆*	1.86	1.67	1.32
25	50	60°C	7.0	7.62	235-1123-ND◆*	1.86	1.67	1.32
25	50	70°C	7.0	8.89	235-1124-ND◆	1.86	1.67	1.32
25	50	80°C	7.0	8.89	235-1125-ND◆	1.86	1.67	1.32
25	50	90°C	7.0	8.89	235-1126-ND◆	1.86	1.67	1.32
25	50	100°C	7.0	7.62	235-1127-ND◆*	1.86	1.67	1.32
25	50	110°C	7.0	7.62	235-1128-ND◆*	1.86	1.67	1.32
50	5	65°C	14.0	15.24	235-1133-ND	3.79	3.41	2.69
50	10	110°C	10.0	11.43	235-1134-ND◆	2.50	2.25	1.77
50	50	110°C	12.0	11.43	235-1135-ND	3.15	2.83	2.23
50	200	110°C	9.0	10.16	235-1136-ND	2.50	2.25	1.77
120	10	120°C	20.0	20.32	235-1137-ND◆	4.53	4.07	3.21
120	20	120°C	18.0	16.51	235-1138-ND◆	3.53	3.18	2.51
120	25	60°C	15.0	15.24	235-1139-ND◆	3.53	3.18	2.51
120	50	120°C	12.0	12.70	235-1140-ND◆	3.15	2.83	2.23
240	40	110°C	18.0	16.51	235-1141-ND	3.88	3.49	2.75
240	50	65°C	17.0	15.24	235-1142-ND	3.88	3.49	2.75
240	50	110°C	18.0	16.51	235-1143-ND◆	3.88	3.49	2.75
240	100	120°C	18.0	16.51	235-1144-ND◆	3.88	3.49	2.75
240	1,500	100°C	12.0	8.89	235-1145-ND◆	3.44	3.06	2.41
480	1,000	100°C	18.0	19.05	235-1146-ND	4.53	4.07	3.21
480	2,000	100°C	15.0	13.97	235-1147-ND	3.79	3.41	2.69
480	5,000	100°C	12.0	8.89	235-1148-ND◆	2.50	2.25	1.77

◆ ***RoHS Compliant*** † D.C. – Dissipation Constant (MW/°C)

* **KCPTC1-KIT-ND** ***Digi-Key® PTC Thermistors Kits***
2 each of all values denoted (12 total pieces). Notebook style storage case and bin storage guide included **$24.18**

Inrush Current Limiters

SPECIFICATIONS: • Inrush Current Limiters protect against high peak inrush current, especially in AC/DC switching power supplies • All resistances ±25% @ 25°C • All parts insulated with a protective coating

Resistance under load is for reference only. Actual values may vary due to ambient temperature, air flow, or mounting conditions.

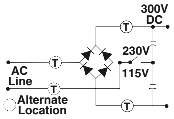

No Load Res. @ 25°C (Ω)	Maximum* Steady State Current (Amps)	Approximately Res. @ I Max. (Ω)	Diameter (mm)	Digi-Key Part No.	Price Each 1	10	100
0.7	12.0	.02	19.56	KC022L-ND◆	4.25	3.83	3.02
1.3	8.0	.04	13.97	KC023L-ND◆	2.78	2.50	1.97
2.5	8.0	.06	19.56	KC003L-ND◆	2.34	2.10	1.66
5.0	6.0	.11	19.56	KC004L-ND◆	2.34	2.10	1.66
7.0	5.0	.16	19.56	KC005L-ND◆	2.34	2.10	1.66
10.0	5.0	.18	19.56	KC006L-ND◆	2.34	2.10	1.66
16.0	4.0	.27	19.56	KC007L-ND◆	2.34	2.10	1.66
47.0	3.0	.49	19.56	KC008L-ND◆	2.34	2.10	1.66
120.0	2.0	1.18	23.62	KC009L-ND◆	2.72	2.45	1.93
0.5	16.0	.02	23.62	KC024L-ND◆	5.42	4.88	3.84
10.0	3.2	.18	10.16	KC011L-ND	2.06	1.85	1.46
10.0	1.7	.34	10.16	KC012L-ND	2.06	1.85	1.46
50.0	1.6	.75	11.43	KC013L-ND◆	2.06	1.85	1.46
50.0	1.1	.89	11.43	KC014L-ND◆	2.06	1.85	1.46
5.0	4.7	.11	13.97	KC015L-ND◆	2.10	1.90	1.49
5.0	2.8	.20	13.97	KC016L-ND◆	2.10	1.90	1.49
16.0	2.7	.33	13.97	KC017L-ND◆	2.10	1.90	1.49
16.0	1.7	.49	13.97	KC018L-ND◆	2.10	1.90	1.49
25.0	2.4	.41	13.97	KC019L-ND◆	2.10	1.90	1.49
25.0	1.7	.49	13.97	KC020L-ND◆	2.10	1.90	1.49
30.0	1.5	.60	10.16	KC021L-ND◆	2.06	1.85	1.46

◆ ***RoHS Compliant*** * These values are suggested maximums based upon 25°C ambient, no air flow environment with the thermistor mounted 1/2" from circuit board.

PTC Resettable Fuses

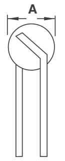

- Telephone line fault protection
- Over-current protection for transformers
- Locked rotor protection for FHP motors

Minimum Limit Current: The minimum amount of current required by the PTC to guarantee switching at the minimum ambient temperatures.

Maximum Limit Current: The maximum amount of current the PTC must be able to pass without switching at the maximum ambient temperature.

Oper. Volt.	No Ld. Res. @ 25°C	Dim. A (mm)	Min. Switch Current 0°C	Min. Switch Current 25°C	Max. No-Switch Current 25°C	Max. No-Switch Current 55°C	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
12	1	15.24	1.45	1.29	0.87	0.64	235-1149-ND◆	2.28	2.05	1.62	RL5305-1-110-12-PTF
	2.5	15.24	0.92	0.82	0.55	0.40	235-1160-ND	2.59	2.34	1.84	RL5305-2.5-110-12-PTF
	5	11.43	0.55	0.49	0.33	0.24	235-1150-ND◆	2.30	2.07	1.63	RL4005-5-110-12-PTF
	10	8.89	0.32	0.30	0.19	0.14	235-1151-ND◆	1.92	1.73	1.37	RL3005-10-110-12-PTF
	25	8.89	0.20	0.19	0.12	0.09	235-1159-ND	1.92	1.73	1.37	RL3005-25-110-12-PTF
25	1.5	19.05	1.34	1.19	0.81	0.59	235-1161-ND◆	4.53	4.07	3.21	RL7008-1.5-110-25-PTF
	3.0	13.97	0.84	0.74	0.50	0.37	235-1162-ND◆	2.88	2.60	2.05	RL5008-3.0-110-25-PTF
50	5.0	15.24	0.65	0.58	0.39	0.29	235-1152-ND◆	2.59	2.33	1.84	RL5506-5-110-50-PTF
	10	11.43	0.39	0.34	0.23	0.17	235-1153-ND◆	2.59	2.34	1.84	RL4006-10-110-50-PTF
	25	12.70	0.27	0.24	0.16	0.12	235-1163-ND◆	2.88	2.60	2.05	RL4508-25-110-50-PTF
	50	11.43	0.19	0.17	0.11	0.08	235-1158-ND	2.59	2.34	1.84	RL4010-50-110-50-PTF
	100	10.67	0.13	0.12	0.08	0.06	235-1154-ND◆	2.16	1.95	1.54	RL3810-100-110-50-PTF
120	10	20.32	0.55	0.49	0.33	0.24	235-1155-ND◆	4.72	4.24	3.34	RL7510-10-110-120-PTF
	20	16.51	0.37	0.33	0.22	0.16	235-1164-ND	2.59	2.34	1.84	RL6010-20-110-120-PTF
	50	12.70	0.19	0.17	0.11	0.08	235-1156-ND◆	2.88	2.60	2.05	RL4510-50-110-120-PTF
	100	10.16	0.13	0.11	0.08	0.06	235-1157-ND	2.16	1.95	1.54	RL3510-100-110-120-PTF
240	50	16.51	0.23	0.21	0.14	0.10	235-1165-ND◆	4.72	4.24	3.34	RL6315-50-110-240-PTF
	100	16.51	0.16	0.15	0.10	0.07	235-1166-ND◆	4.72	4.24	3.34	RL6315-100-110-240-PTF
	250	16.51	0.10	0.09	0.06	0.05	235-1167-ND◆	4.72	4.24	3.34	RL6315-250-110-240-PTF

◆ ***RoHS Compliant***

PTC Thermistors YM120 Series

This range of PTC thermistors is designed to operate at main voltages and is intended for general purpose usage in over-current, over-voltage and direct over-temperature protection.

Each device in the range consists of a disc of barium titanate thermistor material with silvered faces and solder coated copper lead wires. A painted finish is applied which is not intended to confer insulating properties.

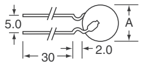

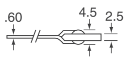

R25	Resistance at 25°C
20%	Tolerance on Resistance at 25°C
I_{nt}(25°C)	Current which will not trip thermistor (25°C ambient)
I_t(25°C)	Current which will trip thermistor (25°C ambient)
I_{nt}(55°C)	Current which will not trip thermistor (55°C ambient)
I_t(10°C)	Current which will trip thermistor (10°C ambient)
I mo	Maximum Overload Current at 265V rms (10° ambient)
V Max.	Maximum Voltage Vrms
D Max.	Maximum Disc Diameter
T Max.	Maximum Overall Thickness

Electrical Specifications Res. @ 25°C Ω	I_{nt} (25°C) mA	I_t (25°C) mA	I_{nt} (55°C) mA	I_t (10°C) mA	Imo A	Vmax Vrms	Dim. A Max.	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
1800	16	23	12	25	0.1	265	4.0mm	235-1072-ND	3.00	2.63	2.04	YM120C15N182
1200	20	28	16	31	0.1	265	4.0mm	235-1073-ND	3.00	2.63	2.04	YM120C20N122
600	28	40	22	44	0.2	265	4.0mm	235-1074-ND	3.00	2.63	2.04	YM120C30N601
300	39	55	30	60	0.2	265	4.0mm	235-1075-ND	3.00	2.63	2.04	YM120C45N301
150	57	80	44	88	0.2	265	4.0mm	235-1076-ND	3.00	2.63	2.04	YM120C60N151
100	70	98	54	108	0.4	265	4.5mm	235-1077-ND	1.81	1.59	1.23	YM120C80N101
60	93	131	72	144	0.6	265	6.0mm	235-1078-ND	1.81	1.59	1.23	YM120D105N600
45	110	155	85	170	0.7	265	7.0mm	235-1079-ND	1.81	1.59	1.23	YM120D125N450
33	128	181	99	198	0.9	265	7.5mm	235-1080-ND	2.58	2.26	1.75	YM120D150N330
20	192	265	149	298	1.3	265	9.5mm	235-1082-ND	2.58	2.26	1.75	YM120D200N200
15	234	330	181	362	1.7	265	11.5mm	235-1083-ND	3.59	3.14	2.44	YM120D260N150
10	314	444	243	486	2.7	265	14.0mm	235-1084-ND	5.19	4.54	3.53	YM120D370N100
6	407	575	315	630	3.9	265	16.5mm	235-1085-ND	6.38	5.59	4.34	YM120D480N060

Surface Mount PTC Thermistors – For Overload Protection

Fig. 1

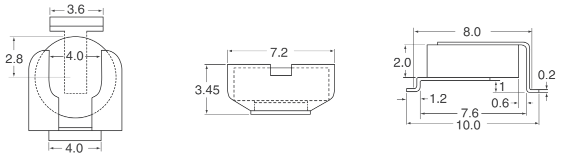

The component consists of a high-performance PTC ceramic disc mounted in a lead-frame, for direct soldering onto a printed-circuit board (PCB) or substrate. The ceramic is soldered to the lead-frame by a local reflow process, during which the solder layer is melted to the metallized ceramic surface using a low residue flux.

Features:

- Ideal for pick-and-place circuit assembly
- Low mounting height
- Suitable for reflow soldering
- Small ceramic diameter for faster response
- Low heat transfer to substrate
- Flat terminations for stable positioning and good solderability

Fig.	Res. @ 25°C (Ω)	V Maximum (V)	I_{nt} @ 25°C	I_{nt} @ 70°C	I_t @ 25°C	Ceramic Size Inch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,500	Vishay Part No.
							Telecommunication Type						
1	10	245	165	100	270	0.25 (6.5)	BC1566CT-ND	1.61	1.42	1.11	—	—	2322 661 97012
	10	245	165	100	270	0.25 (6.5)	BC1568CT-ND	1.61	1.42	1.11	BC1568TR-ND	604.50/M	2322 661 97016
	17.5	300	150	100	250	0.25 (6.5)	BC1561CT-ND	1.61	1.42	1.11	BC1561TR-ND	604.50/M	2322 661 97003
	17.5	300	150	100	250	0.25 (6.5)	BC1562CT-ND	1.93	1.70	1.33	BC1562TR-ND	724.50/M	2322 661 97004
	20	300	120	70	250	0.25 (6.5)	BC1569CT-ND	1.61	1.42	1.11	BC1569TR-ND	604.50/M	2322 661 97018
	25	265	120	70	220	0.25 (6.5)	BC1563CT-ND	1.93	1.70	1.33	—	—	2322 661 97005
	35	425	110	70	175	0.25 (6.5)	BC1564CT-ND	1.61	1.42	1.11	BC1564TR-ND	604.50/M	2322 661 97009
	40	265	80	50	130	0.25 (6.5)	BC1560CT-ND	1.61	1.42	1.11	BC1560TR-ND	604.50/M	2322 661 97002
							General Industrial Type						
1	3.3	24	400	—	650	0.25 (6.5)	BC1567CT-ND	1.61	1.42	1.11	BC1567TR-ND	604.50/M	2322 661 97013
	9.4	60	150	100	300	0.25 (6.5)	BC1565CT-ND	1.61	1.42	1.11	BC1565TR-ND	604.50/M	2322 661 97011

Leaded PTC Thermistors – For Overload Protection

These directly heated thermistors have a positive temperature coefficient and are primarily intended for overload protection.

Features: • Switch Temperature: Ts = 140°C, (Series 2322 660 5: Ts = 120°C) • Small ratio between trip and non-trip currents • High maximum inrush current • Excellent long term behavior, also in humidity • UL approved PTCs are guaranteed to withstand severe test programs • UL file E148885 according to XGPU2 standard UL1434

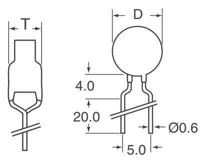

Res. @ 25°C ±20% (Ω)	I_{nt} Max. @ 25°C (mA)	I_t Min. @ 25°C (mA)	V Max. (V)	Typical øD (mm)	Dimensions (mm) Maximum D	T	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
0.9	920	1380	30	12	12.5	4.0	BC2323-ND◆	1.75	1.58	1.25	2381 662 59211
6	270	405	30	4.5	5.0	4.0	BC1337-ND◆	1.09	.99	.78	2322 660 52711
50	94	145	60	4.5	5.0	4.0	BC2319-ND◆	1.09	.99	.78	2381 660 59491
1.3	1000	1500	145	20	20.5	5.0	BC1359-ND	5.43	4.88	3.85	2322 664 51022
3.8	450	675	145	12	12.5	5.0	BC1355-ND	1.67	1.50	1.19	2322 662 54512
3.8	450	675	145	12	12.5	5.0	BC2322-ND◆	1.67	1.50	1.19	2381 662 54512
40	110	165	145	4.5	5.0	5.0	BC1348-ND	1.28	1.16	.91	2322 660 51112
240	47	70	145	4.5	5.0	5.0	BC1346-ND	1.09	.99	.78	2322 660 54792
48	110	165	265	6.5	7.0	5.5	BC2321-ND◆	1.28	1.16	.91	2381 661 51113
56	95	143	265	4.5	5.0	5.5	BC2320-ND◆	.71	.64	.51	2381 660 59593
120	63	95	265	4.5	5.0	5.5	BC2318-ND◆	1.13	1.02	.80	2381 660 56393
500	28	42	265	4.5	5.0	5.5	BC2316-ND◆	1.04	.94	.74	2381 660 52893
1200	19	29	265	4.5	5.0	5.5	BC2315-ND◆	1.13	1.02	.80	2381 660 51993

◆ *RoHS Compliant*

Leaded PTC Thermistors

Overload Protection for Telecommunication

Advanced developments in telephone equipment in recent years have radically altered the protection requirements for both exchange and subscriber equipment. The range of Positive Temperature Coefficient (PTC) thermistors includes devices specially designed to provide overcurrent protection.

Features:

• Fast protection against power contact faults • Withstand high overload currents of up to 10A • High voltage withstanding capabilities for the larger sized thermistors • Good tracking over a wide temperature range for all matched or binned types • Excellent stability over extended time • All telecom PTCs are coated with a high temperature silicon lacquer (UL94V0) to protect them from any harsh environments and to improve their lifetime

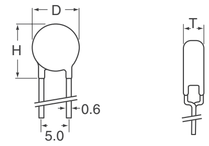

Res. @ 25°C (Ω)	V Max. (V)	Non-Trip Current I_{nt} (mA)	Trip Current I_{nt} (mA)	Dimensions (mm) Maximum D	T	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,500	Vishay Part No.
4	100	85	280	7.0	4.0	11.0	BC1553CT-ND	1.00	.88	.69	—	—	2322 661 91066
25	220	70	200	8.5	5.0	11.5	BC1554CT-ND	1.19	1.04	.82	BC1554TR-ND	445.50/M	2322 661 93048
25	245	70	200	8.3	4.0	11.0	BC1555CT-ND	1.19	1.04	.82	—	—	2322 661 93043

PTC Thermistors – For Capacitor Charging

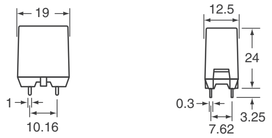

Features: • Self-protecting in case of malfunction of short-circuit relay or internal short-circuit of capacitor • Encased thermistor disk with clamp contacts • For high pulse currents and high number of operating cycles • Flame-retardant plastic case • Case material UL-listed • Sn-plated lead-free solder pins

Applications: • In-rush current limiter (charging resistor) for smoothing and DC link capacitors • To replace high-power fixed resistors for capacitor charging

Vmax (VDC)	Rated Resistance (Ohms)	Max Pulse Current (A)	Breakdown Voltage (V)	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
550	20	50	>700	495-3449-ND	3.41	24.34	194.72	B59201J0140B010
650	56	25	>700	495-3450-ND	3.41	24.34	194.72	B59202J0135B010
800	100	20	>900	495-3451-ND	3.41	24.34	194.72	B59204J0130B010

Surface Mount PTC Thermistors For Temperature Protection

Features: • Thermistor chip with lead-free tinned terminations • Small size • Fast and reliable response • Suitable for reflow soldering
Applications: • DC/DC converters • Home appliances • Dimmers • Electronic ballasts • Temperature management in automotive electronics • Over temperature protection of power transistors and power IC's (e.g. in battery pack, notebook) • SMPS

Size Code	Nominal Threshold Temperature (°C)	Rated Resistance (Ω)	Maximum Operating Voltage (VDC)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Epcos Part No.
0603	75	470	32	495-2408-1-ND	.80	.70	.55	495-2408-2-ND	290.00/M	B59601A0075A062
	85			495-2409-1-ND	.80	.70	.55	495-2409-2-ND	290.00/M	B59601A0085A062
	95			495-2410-1-ND	.80	.70	.55	495-2410-2-ND	290.00/M	B59601A0095A062
	105			495-2411-1-ND	.80	.70	.55	495-2411-2-ND	290.00/M	B59601A0105A062
	115			495-2412-1-ND	.80	.70	.55	495-2412-2-ND	290.00/M	B59601A0115A062
	125			495-2413-1-ND	.80	.70	.55	495-2413-2-ND	290.00/M	B59601A0125A062
	135			495-2414-1-ND	.80	.70	.55	495-2414-2-ND	290.00/M	B59601A0135A062
0805	70	≤1K	25	495-2415-1-ND	.78	.69	.54	495-2415-2-ND	283.00/M	B59701A0070A062
	90			495-2608-1-ND	.88	.51	.38	495-2608-2-ND	278.00/M	B59701A0090A062
	100			495-2609-1-ND	.88	.51	.38	495-2609-2-ND	278.00/M	B59701A0100A062
	110			495-2610-1-ND	.88	.51	.38	495-2610-2-ND	278.00/M	B59701A0110A062
	120			495-2611-1-ND	.88	.51	.38	495-2611-2-ND	278.00/M	B59701A0120A062
	130			495-2612-1-ND	.88	.51	.38	495-2612-2-ND	278.00/M	B59701A0130A062

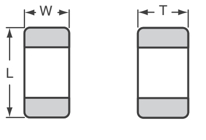

Size Code	Dimensions - mm L	W	T
0603	1.6	0.8	0.9
0805	2.0	1.25	0.8

Surface Mount PTC Thermistors For Overcurrent Protection

Features: • Suitable for reflow soldering and for automatic placement **Applications:** • Overcurrent protection • Short-circuit protection

Dim. in mm.

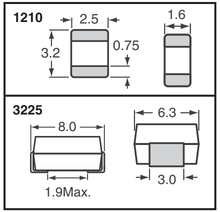

Size Code	Rated Resistance (Ω)	Rated Current (mA)	Switch Current (mA)	Maximum Switch Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Epcos Part No.
1210	27	90	180	0.5	495-2416-1-ND	1.15	1.01	.79	495-2416-2-ND	2,000	416.00/M	B59606A0110A062
	55	70	130	0.4	495-2417-1-ND	1.04	.92	.72	495-2417-2-ND	2,000	378.00/M	B59607A0120A062
	125	50	90	0.3	495-2418-1-ND	1.04	.92	.72	495-2418-2-ND	2,000	378.00/M	B59707A0120A062
3225	55	40	85	0.7	495-2419-1-ND	1.75	1.53	1.21	495-2419-2-ND	1,000	634.00	B59115P1080A062
	25	65	135	1.0	495-2421-1-ND	1.78	1.56	1.23	495-2421-2-ND	1,000	645.00	B59215P1080A062
	4.6	165	340	1.0	495-2420-1-ND	1.78	1.56	1.23	495-2420-2-ND	1,000	645.00	B59201P1080A062

Leaded PTC Thermistors For Temperature Protection

Features: • Thermistor pellet with insulating encapsulation • Low-resistance • Steep R/T curve • Silver-plated and Insulated AWG 26 litz wires • Extremely fast response due to small dimensions • UL approved to UL 1434 (file number E69802) **Applications:** • Thermal protection of winding in electric motors • Limit temperature monitoring

Dim. in mm

Nominal Threshold Temperature (°C)	Rated Resistance (Ω)	Maximum Operating Voltage (VDC)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
70	≤100	30	495-2615-ND	3.61	2.58	2.07	B59100M1070A070
110			495-2616-ND	3.35	2.40	1.92	B59100M1110A070
120			495-2617-ND	3.35	2.40	1.92	B59100M1120A070
155			495-2618-ND	3.35	2.40	1.92	B59100M1155A070

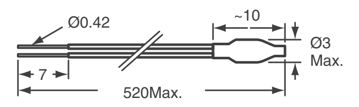

Leaded PTC Thermistors For Overcurrent Protection

Features: • Short response times • UL approval for UL 1434 (file number E69802) • VDE approval (license number 104843 E) **Applications:** • Overcurrent and short-circuit protection **Specifications:** • Operating Temperature Range (V=Vmax): 0 ~ 60°C • Rated Voltage: 230VAC/VDC

Rated Resistance (Ω)	Rated Current (mA)	Switch Current (mA)	Maximum Switch Current (A)	Dimension - mm b	h	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,500	Epcos Part No.
25	100	200	1.0	9.0	12.5	495-2613-ND†	1.55	1.00	.77	—	—	B59870C0120A070
70	55	110	0.4	6.5	10.0	495-2614-1-ND	1.58	.91	.67	495-2614-2-ND	595.00/M	B59880C0120A051

† Bulk Pricing

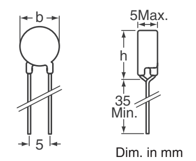

Dim. in mm

Inrush Current Limiters

Features: • Usable in series connections up to 265Vrms • Coated thermistor disk • UL Approval (E69802)
Applications: • Switch-mode power supplies **Specifications:** • Climatic category: 55/170/21 • Tolerance: ±20%

Dim. in mm

Fig. 1

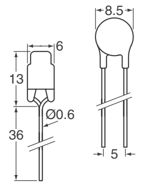

Fig. 2

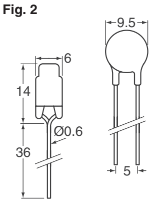

Fig. 3

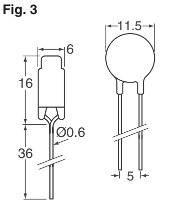

Fig. 4

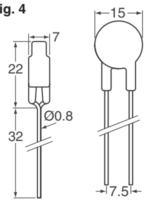

Fig. 5

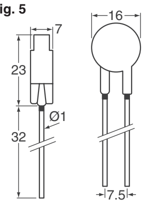

Fig. 6

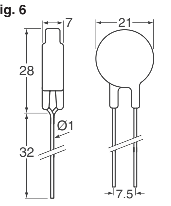

Fig. 7

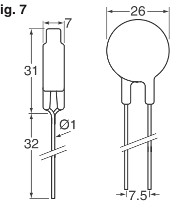

Fig.	Res. @ 25°C (Ω)	I_{max} (A) 0°C ~ 65°C	$B_{25/100}$ (K)	Digi-Key Part No.	Pricing 1	10	100	Epcos Part No.
1	4.7	3.0	2800	495-2079-ND	.25	2.19	17.19	B57153S0479M000
	10	2.0	2800	495-2076-ND	.25	2.19	17.19	B57153S0100M000
	15	1.8	2900	495-2077-ND	.25	2.19	17.19	B57153S0150M000
	33	1.3	3000	495-2078-ND	.25	2.19	17.19	B57153S0330M000
2	5	4.2	2800	495-2093-ND	.30	2.63	20.63	B57235S0509M000
	6	4.0	2800	495-3043-ND	.30	2.63	20.63	B57235S0609M000
	8	3.5	2900	495-3044-ND	.30	2.63	20.63	B57235S0809M000
	10	3.0	2900	495-2092-ND	.30	2.63	20.63	B57235S0100M000
3	2.5	5.5	2700	495-3049-ND‡	.48	4.20	33.00	B57236S0259L002
	3	5.0	2700	495-3050-ND‡	.48	4.20	33.00	B57236S0309L002
	5	4.5	2800	495-3051-ND‡	.48	4.20	33.00	B57236S0509L002
	5	4.5	2800	495-2096-ND	.42	3.63	28.55	B57236S0509M000
	8	3.7	2900	495-3052-ND‡	.48	4.20	33.00	B57236S0809L002
	10	3.5	2900	495-2094-ND	.42	3.63	28.55	B57236S0100M000
	12	3.2	2900	495-3045-ND	.42	3.63	28.55	B57236S0120M000
	16	2.9	2965	495-3046-ND	.42	3.63	28.55	B57236S0160M000
	20	2.8	3065	495-3047-ND	.42	3.63	28.55	B57236S0200M000
	25	2.5	3065	495-3048-ND	.42	3.63	28.55	B57236S0250M000
	50	1.9	3165	495-2095-ND	.42	3.63	28.55	B57236S0500M000
4	1	9.0	2700	495-2098-ND	.73	6.35	49.86	B57237S0109M000
	2.2	7.0	2800	495-3055-ND	.73	6.35	49.86	B57237S0229M000
	2.5	6.5	2800	495-3056-ND	.73	6.35	49.86	B57237S0259M000
	4.7	5.1	2900	495-2099-ND	.73	6.35	49.86	B57237S0479M000
	5	5.0	2900	495-2100-ND	.73	6.35	49.86	B57237S0509M000
	10	3.7	3060	495-2097-ND	.73	6.35	49.86	B57237S0100M000
	15	3.0	3000	495-3053-ND	.73	6.35	49.86	B57237S0150M000
	22	2.8	3300	495-3054-ND	.73	6.35	49.86	B57237S0220M000
	33	2.5	3300	495-3057-ND	.73	6.35	49.86	B57237S0330M000
5	2.5	8.4	2800	495-3062-ND	.78	6.78	53.30	B57238S0259M000
	4.7	6.6	2965	495-2102-ND	.78	6.78	53.30	B57238S0479M000
	5	6.4	2965	495-2103-ND	.78	6.78	53.30	B57238S0509M000
	10	5.0	3065	495-2101-ND	.78	6.78	53.30	B57238S0100M000
	15	4.4	3165	495-3058-ND	.78	6.78	53.30	B57238S0150M000
	16	4.0	3165	495-3059-ND	.78	6.78	53.30	B57238S0160M000
	22	4.0	3265	495-3060-ND	.78	6.78	53.30	B57238S0220M000
	25	3.4	3265	495-3061-ND	.78	6.78	53.30	B57238S0250M000
6	1	16.0	2800	495-1871-ND	1.15	10.06	79.06	B57364S0109M000
	2.5	11	2900	495-3063-ND	1.15	10.06	79.06	B57364S0259M000
	5	8.5	3060	495-2114-ND	1.15	10.06	79.06	B57364S0509M000
	10	7.5	3300	495-2112-ND	1.15	10.06	79.06	B57364S0100M000
7	1	20.0	2800	495-2123-ND	3.75	32.81	257.81	B57464S0109M000

‡ Tolerance ±15%

AMETHERM
Circuit Protection Thermistors

Inrush Current Limiters

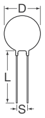

Ametherm's MegaSurge™, Surge Limiter and bigAMP Series of Inrush Current Limiters offer an economical and space saving solution for limiting high inrush currents. Ametherm also offers the highest current rated Thermistors available for Inrush Current Limiting.

Resistance @ 25°C (Ω)	Maximum Steady State Current @ 65°C (Amps)	Maximum Energy (Joules)	Diameter (D) (mm)	Lead Spacing (S) (mm)	Lead Length (L) (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Ametherm Part No.
150	2.0	110	12 ±0.5	7.8 ±2.0	38 ±9.0	570-1000-ND	3.11	1.92	1.45	MS12 15102
10	8.0	200	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1003-ND◆	3.60	2.95	2.30	MS22 10008
20	5.0	180	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1007-ND◆	3.60	2.95	2.30	MS22 20005
50	4.0	240	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1010-ND◆	3.60	2.95	2.30	MS22 50004
75	4.0	240	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1011-ND	3.60	2.95	2.30	MS22 75004
120	2.0	220	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1004-ND	3.60	2.95	2.30	MS22 12102
220	3.5	75	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1008-ND	3.60	2.95	2.30	MS22 22103
.50	40	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1013-ND◆	4.51	3.69	2.87	MS32 0R540
1.0	36	300	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1016-ND	4.51	3.69	2.87	MS32 1R036
2.0	25	300	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1019-ND◆	4.51	3.69	2.87	MS32 2R025
5.0	20	300	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1021-ND◆	4.51	3.69	2.87	MS32 5R020
10	15	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1014-ND◆	4.51	3.69	2.87	MS32 10015
20	8.0	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1017-ND◆	4.51	3.69	2.87	MS32 20008
20	10	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1018-ND◆	4.51	3.69	2.87	MS32 20010
50	6.0	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1020-ND◆	4.51	3.69	2.87	MS32 50006
.50	50	900	35 ±2.5	19 ±3.0	39 ±4.0	570-1023-ND◆	6.44	5.27	4.10	MS35 0R550
1.0	40	800	35 ±2.5	19 ±3.0	39 ±4.0	570-1025-ND◆	6.44	5.27	4.10	MS35 1R040
2.0	35	750	35 ±2.5	19 ±3.0	39 ±4.0	570-1027-ND◆	6.44	5.27	4.10	MS35 2R035
3.0	30	750	35 ±2.5	19 ±3.0	39 ±4.0	570-1028-ND◆	6.44	5.27	4.10	MS35 3R030
5.0	25	600	35 ±2.5	19 ±3.0	39 ±4.0	570-1029-ND◆	6.44	5.27	4.10	MS35 5R025
10	18	500	35 ±2.5	19 ±3.0	39 ±4.0	570-1024-ND◆	6.44	5.27	4.10	MS35 10018
20	10	500	35 ±2.5	19 ±3.0	39 ±4.0	570-1026-ND◆	6.44	5.27	4.10	MS35 20010
.50	16	160	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1030-ND◆	1.68	1.04	.79	SL22 0R516
.70	12	120	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1031-ND◆	1.68	1.04	.79	SL22 0R712
1.0	20	65	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1041-ND◆	1.68	1.04	.79	SL22 1R020
2.0	18	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1044-ND◆	1.68	1.04	.79	SL22 2R018
2.5	8.0	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1045-ND◆	1.68	1.04	.79	SL22 2R508
2.5	10	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1046-ND◆	1.68	1.04	.79	SL22 2R510
2.5	15	90	20 ±1.0	8.0 ±0.2	38 ±9.0	570-1047-ND◆	1.68	1.04	.79	SL22 2R515
4.0	14	100	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1050-ND◆	1.68	1.04	.79	SL22 4R014
5.0	6.0	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1052-ND◆	1.68	1.04	.79	SL22 5R006
5.0	12	100	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1053-ND◆	1.68	1.04	.79	SL22 5R012
7.0	10	100	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1055-ND	1.68	1.04	.79	SL22 7R010
10	5.0	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1032-ND◆	1.68	1.04	.79	SL22 10005
10	8.0	90	20 ±1.0	7.5 ±0.80	38 ±9.0	570-1034-ND◆	1.68	1.04	.79	SL22 10008
10	9.0	100	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1035-ND	1.68	1.04	.79	SL22 10009
14	5.0	75	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1038-ND	1.68	1.04	.79	SL22 14005
14	7.0	75	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1039-ND◆	1.68	1.04	.79	SL22 14007
16	4.0	100	20 ±1.0	9.4 ±0.9	38 ±9.0	570-1040-ND◆	1.68	1.04	.79	SL22 16004
20	7.0	125	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1042-ND◆	1.68	1.04	.79	SL22 20007
30	5.0	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1048-ND	1.68	1.04	.79	SL22 30005
40	5.0	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1049-ND◆	1.68	1.04	.79	SL22 40005
50	4.0	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1051-ND◆	1.68	1.04	.79	SL22 50004
60	3.0	72	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1054-ND	1.68	1.04	.79	SL22 60003
120	3.0	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1037-ND◆	1.68	1.04	.79	SL22 12103
.50	30	150	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1056-ND◆	2.42	1.49	1.13	SL32 0R530
.50	36	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1057-ND◆	2.42	1.49	1.13	SL32 0R536
1.0	30	160	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1059-ND◆	2.42	1.49	1.13	SL32 1R030
1.0	36	160	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1060-ND◆	2.42	1.49	1.13	SL32 1R036
2.0	23	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1061-ND◆	2.42	1.49	1.13	SL32 2R023
2.0	25	300	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1062-ND◆	2.42	1.49	1.13	SL32 2R025
4.0	23	200	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1063-ND◆	2.42	1.49	1.13	SL32 4R023
5.0	20	200	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1064-ND◆	2.38	1.49	1.13	SL32 5R020
10	15	150	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1058-ND◆	2.42	1.49	1.13	SL32 10015

◆ *RoHS Compliant*

AVX Accu-Guard® SMD Thin-Film Fuse

RoHS COMPLIANT

The Accu-Guard series of fuses is based on thin-film techniques. This technology provides a level of control on the component electrical and physical characteristics that is generally not possible with standard fuse technologies. This has allowed AVX to offer a series of devices which are designed for modern surface mount circuit boards which require protection.

FEATURES: • Accurate current rating • Fast-acting • Completely compatible with all soldering systems used for SMT

APPROVALS: • UL, cUL: RCD#E143842

SPECIFICATIONS: • **Operating Temperature:** -55°C ~ 125°C • **Current Carrying Capacity:** -55°C 107% of rating; -25°C 100% of rating, 125°C 80% of rating • **Rated Voltage:** 32VAC VDC • **Interrupt Rating:** 50A • **Insulation Resistance:** >20MΩ guaranteed (after using at rated voltage)

Size	Dimensions Inches (mm) L	W	T	B
0402	0.039 ±0.004 (1.00 ±0.10)	0.022 ±0.003 (0.55 ±0.07)	0.016 ±0.004 (0.40 ±0.10)	0.008 ±0.004 (0.20 ±0.10)
0603	0.063 ±0.004 (1.60 ±0.10)	0.032 ±0.004 (0.81 ±0.10)	0.025 ±0.004 (0.63 ±0.10)	0.014 ±0.006 (0.35 ±0.15)

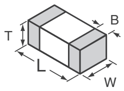

Case Size	Amp Rating	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	AVX Part No.
0402	0.25	478-2852-1-ND	.35	.33	.25	478-2852-2-ND	5,000	135.00/M	F0402E0R25FSTR
	0.50	478-2853-1-ND	.35	.33	.25	478-2853-2-ND	5,000	135.00/M	F0402E0R50FSTR
	0.75	478-2854-1-ND	.35	.33	.25	—	—	—	F0402E0R75FSTR
	1.00	478-2855-1-ND	.35	.33	.25	478-2855-2-ND	5,000	135.00/M	F0402E1R00FSTR
	1.50	478-2856-1-ND	.35	.33	.25	—	—	—	F0402E1R50FSTR
	2.00	478-2857-1-ND	.35	.33	.25	478-2857-2-ND	5,000	135.00/M	F0402E2R00FSTR
0603	0.25	478-2858-1-ND	.39	.36	.27	478-2858-2-ND	3,000	149.00/M	F0603E0R25FSTR
	0.375	478-2859-1-ND	.39	.36	.27	478-2859-2-ND	3,000	149.00/M	F0603E0R37FSTR
	0.50	478-2860-1-ND	.39	.36	.27	478-2860-2-ND	3,000	149.00/M	F0603E0R50FSTR
	0.75	478-2861-1-ND	.39	.36	.27	478-2861-2-ND	3,000	149.00/M	F0603E0R75FSTR
	1.00	478-2862-1-ND	.39	.36	.27	478-2862-2-ND	3,000	149.00/M	F0603E1R00FSTR
	1.25	478-2863-1-ND	.39	.36	.27	478-2863-2-ND	3,000	149.00/M	F0603E1R25FSTR
	1.55	478-2864-1-ND	.39	.36	.27	478-2864-2-ND	3,000	149.00/M	F0603E1R50FSTR
	1.75	478-2865-1-ND	.39	.36	.27	478-2865-2-ND	3,000	149.00/M	F0603E1R75FSTR
	2.00	478-2866-1-ND	.39	.36	.27	478-2866-2-ND	3,000	149.00/M	F0603E2R00FSTR
	2.50	478-2867-1-ND	.39	.36	.27	478-2867-2-ND	3,000	149.00/M	F0603E2R50FSTR
	3.00	478-2868-1-ND	.39	.36	.27	478-2868-2-ND	3,000	149.00/M	F0603E3R00FSTR

PolySwitch® Resettable Devices

PolySwitch resettable devices protect electrical and electronic circuits against excessive current, voltage, and temperature. After switching, the PolySwitch device is latched into its high-resistance, protective state by the small, sustained self-heating current. The device will reset only after it has cooled and the fault condition has been corrected, thus avoiding continuous cycling that could cause circuit damage. The device requires no manual resetting or replacement.

Definitions: • **Maximum Voltage:** The highest voltage the device can withstand (in its tripped state) without damage. • **Hold Current:** The maximum continuous current that will not cause the device to trip at 20°C. • **Trip Current:** The minimum continuous current that will cause the device to trip at 20°C. • **Maximum Current:** The largest fault current, at rated voltage, the device can interrupt without being damaged. • **Maximum R:** Maximum non-tripped resistance of the device.

Fig. 1 — RGEF and RHEF Series

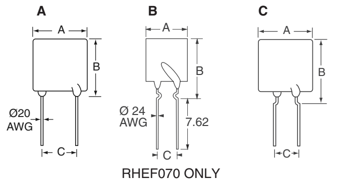

RHEF070 ONLY

This product series can be used in a wide variety of automotive, computer and general electronics applications. The RGEF devices feature high current carrying capability (up to 13 amps) in a small package with fast trip times.

Fig. 2 — RXEF Series

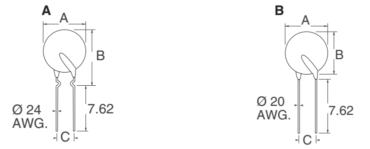

RXEF005-RXEF090

RXEF110-RXEF375

These products function as the general purpose line of circuit protection devices and are well suited for power supplies, alarm systems, speakers, motors and many other applications. The RXEF series range in hold currents from .05 ~ 3.75 amps and complement the RUEF devices by providing a higher voltage rating.

Fig. 3 — RUEF Series

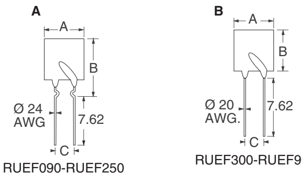

RUEF090-RUEF250

RUEF300-RUEF900

These devices are also designed to be used in a wide variety of general electronics applications. They complement the RXEF series by providing a smaller form factor with lower resistance and higher hold current capability (up to 9 amps).

Fig.	Max. Volt.	Rated Current (20°C) (A) Hold	Trip	Max. Current (A)	Initial Resistance RMin. (Ω)	RMax. (Ω)	Recognized By	Dimensions – Inches (mm) A	B	C (Max.)	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
RGEF Series — RoHS Compliant															
1A	16	3.00	5.10	100	0.038	0.0653	UL, TUV, CSA	0.28 (7.1)	0.43 (11.0)	0.20 (5.1)	RGEF300-ND	.53	.49	.45	RGEF300
	16	4.00	6.80	100	0.021	0.0393		0.35 (8.9)	0.50 (12.8)	0.20 (5.1)	RGEF400-ND	.57	.52	.48	RGEF400
	16	5.00	8.50	100	0.015	0.0236		0.41 (10.4)	0.56 (14.3)	0.20 (5.1)	RGEF500-ND	.62	.57	.52	RGEF500
	16	6.00	10.20	100	0.010	0.0191		0.42 (10.7)	0.67 (17.1)	0.20 (5.1)	RGEF600-ND	.65	.60	.54	RGFE600
	16	7.00	11.90	100	0.0077	0.0134		0.44 (11.2)	0.78 (19.7)	0.20 (5.1)	RGEF700-ND	.68	.62	.57	RGEF700
	16	8.00	13.60	100	0.0056	0.0116	UL, TUV, CSA	0.50 (12.7)	0.82 (20.9)	0.20 (5.1)	RGEF800-ND	.74	.68	.62	RGEF800
	16	9.00	15.30	100	0.0047	0.0093		0.55 (14.0)	0.85 (21.7)	0.20 (5.1)	RGEF900-ND	.75	.69	.63	RGEF900
	16	10.00	17.00	100	0.0040	0.0072		0.65 (16.5)	0.99 (25.2)	0.20 (5.1)	RGEF1000-ND	.78	.72	.65	RGEF1000
	16	11.00	18.70	100	0.0037	0.0063		0.69 (17.5)	1.02 (26.0)	0.20 (5.1)	RGEF1100-ND	.81	.75	.68	RGEF1100
	16	12.00	20.40	100	0.0033	0.0060		0.69 (17.5)	1.10 (27.94)	0.43 (10.9)	RGEF1200-ND	.93	.86	.78	RGEF1200
	16	14.00	23.80	100	0.0026	0.0045		0.925 (23.5)	1.10 (27.94)	0.43 (10.9)	RGEF1400-ND	1.08	.99	.90	RGEF1400
RHEF Series — RoHS Compliant															
1B	30	0.7	1.40	40	0.300	0.546	UL, TUV, CSA	0.27 (6.86)	0.425 (10.8)	0.20 (5.1)	RHEF070-ND	.50	.46	.42	RHEF070
1C	16	4.0	7.00	100	0.018	0.029	UL, TUV, CSA	0.45 (11.4)	0.71 (18.0)	0.20 (5.1)	RHEF400-ND	.63	.58	.53	RHEF400
	16	4.5	7.80	100	0.022	0.036		0.41 (10.4)	0.61 (15.6)	0.20 (5.1)	RHEF450-ND	.66	.61	.55	RHEF450
	16	6.0	10.80	100	0.013	0.022		0.44 (11.2)	0.83 (21.0)	0.20 (5.1)	RHEF600-ND	.72	.66	.60	RHEF600
	16	7.5	13.10	100	0.0094	0.0153		0.55 (14.0)	0.93 (23.5)	0.20 (5.1)	RHEF750-ND	.78	.72	.65	RHEF750
	16	10.0	18.50	100	0.0062	0.0105		0.69 (17.5)	1.04 (26.5)	0.43 (10.9)	RHEF1000-ND	.96	.88	.80	RHEF1000
	16	13.0	24.00	100	0.0041	0.0069	UL, TUV, CSA	0.925 (23.5)	1.13 (28.7)	0.43 (10.9)	RHEF1300-ND	1.11	1.02	.93	RHEF1300
	16	15.0	28.00	100	0.0032	0.0061		0.925 (23.5)	1.13 (28.7)	0.43 (10.9)	RHEF1500-ND	1.23	1.13	1.03	RHEF1500
RXEF Series — RoHS Compliant															
2A	60	0.05	0.10	40	7.3	11.1	UL, TUV, CSA	0.32 (8.0)	0.33 (8.3)	0.20 (5.1)	RXEF005-ND	.39	.36	.33	RXEF005
	60	0.10	0.20	40	2.5	4.50		0.29 (7.4)	0.46 (11.6)	0.20 (5.1)	RXEF010-ND	.38	.35	.32	RXEF010
	60	0.17	0.34	40	3.3	5.21		0.29 (7.4)	0.50 (12.7)	0.20 (5.1)	RXEF017-ND	.39	.36	.33	RXEF017
	72	0.20	0.40	40	1.83	2.75		0.29 (7.4)	0.46 (11.7)	0.20 (5.1)	RXEF020-ND	.39	.36	.33	RXEF020
	72	0.25	0.50	40	1.25	1.95		0.29 (7.4)	0.50 (12.7)	0.20 (5.1)	RXEF025-ND	.40	.37	.33	RXEF025
	72	0.30	0.60	40	0.88	1.33	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.20 (5.1)	RXEF030-ND	.40	.37	.34	RXEF030
	72	0.40	0.80	40	0.55	0.86		0.30 (7.6)	0.53 (13.5)	0.20 (5.1)	RXEF040-ND	.43	.40	.36	RXEF040
	72	0.50	1.00	40	0.50	0.77		0.31 (7.9)	0.54 (13.7)	0.20 (5.1)	RXEF050-ND	.44	.41	.37	RXEF050
	72	0.65	1.30	40	0.31	0.48		0.37 (9.40)	0.57 (14.5)	0.20 (5.1)	RXEF065-ND	.44	.41	.37	RXEF065
	72	0.75	1.50	40	0.25	0.40		0.40 (10.2)	0.60 (15.2)	0.20 (5.1)	RXEF075-ND	.45	.42	.38	RXEF075
	72	0.90	1.80	40	0.20	0.31		0.44 (11.2)	0.62 (15.8)	0.20 (5.1)	RXEF090-ND	.46	.42	.38	RXEF090
2B	72	1.10	2.20	40	0.15	0.25	UL, TUV, CSA	0.50 (12.8)	0.69 (17.5)	0.20 (5.1)	RXEF110-ND	.46	.43	.39	RXEF110
	72	1.35	2.70	40	0.12	0.19		0.57 (14.5)	0.75 (19.1)	0.20 (5.1)	RXEF135-ND	.48	.44	.40	RXEF135
	72	1.60	3.20	40	0.09	0.14		0.64 (16.3)	0.82 (20.8)	0.20 (5.1)	RXEF160-ND	.49	.45	.41	RXEF160
	72	1.85	3.70	40	0.08	0.12		0.69 (17.5)	0.88 (22.4)	0.20 (5.1)	RXEF185-ND	.53	.49	.44	RXEF185
	72	2.50	5.00	40	0.05	0.08		0.82 (20.8)	1.00 (25.4)	0.43 (10.9)	RXEF250-ND	.59	.54	.49	RXEF250
	72	3.00	6.00	40	0.04	0.06	UL, TUV, CSA	0.94 (23.9)	1.13 (28.7)	0.43 (10.9)	RXEF300-ND	.63	.58	.53	RXEF300
	72	3.75	7.50	40	0.03	0.05		1.07 (27.2)	1.25 (31.8)	0.43 (10.9)	RXEF375-ND	.66	.61	.55	RXEF375
RUEF Series — RoHS Compliant															
3A	30	0.90	1.80	40	0.070	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.20 (5.1)	RUEF090-ND	.43	.40	.36	RUEF090
	30	1.10	2.20	40	0.050	0.10		0.29 (7.4)	0.56 (14.2)	0.20 (5.1)	RUEF110-ND	.44	.40	.37	RUEF110
	30	1.35	2.70	40	0.040	0.08		0.35 (8.9)	0.53 (13.5)	0.20 (5.1)	RUEF135-ND	.45	.41	.38	RUEF135
	30	1.60	3.20	40	0.030	0.07		0.35 (8.9)	0.60 (15.2)	0.20 (5.1)	RUEF160-ND	.46	.43	.39	RUEF160
	30	1.85	3.70	40	0.030	0.06		0.40 (10.2)	0.62 (15.7)	0.20 (5.1)	RUEF185-ND	.48	.44	.40	RUEF185
	30	2.50	5.00	40	0.020	0.04		0.45 (11.4)	0.72 (18.3)	0.20 (5.1)	RUEF250-ND	.49	.46	.41	RUEF250
3B	30	3.00	6.00	40	0.020	0.05	UL, TUV, CSA	0.45 (11.4)	0.68 (17.3)	0.20 (5.1)	RUEF300-ND	.52	.48	.44	RUEF300
	30	4.00	8.00	40	0.010	0.03		0.55 (14.0)	0.79 (20.1)	0.20 (5.1)	RUEF400-ND	.56	.52	.47	RUEF400
	30	5.00	10.00	40	0.010	0.03		0.55 (14.0)	0.98 (24.9)	0.43 (10.9)	RUEF500-ND	.61	.57	.51	RUEF500
	30	6.00	12.00	40	0.005	0.02		0.65 (16.5)	0.98 (24.9)	0.43 (10.9)	RUEF600-ND	.66	.61	.55	RUEF600
	30	7.00	14.00	40	0.005	0.02		0.75 (19.1)	1.05 (26.7)	0.43 (10.9)	RUEF700-ND	.70	.65	.59	RUEF700
	30	8.00	16.00	40	0.005	0.013	UL, TUV, CSA	0.85 (21.6)	1.15 (29.2)	0.43 (10.9)	RUEF800-ND	.73	.67	.61	RUEF800
	30	9.00	18.00	40	0.005	0.01		0.95 (24.1)	1.17 (29.7)	0.43 (10.9)	RUEF900-ND	.77	.71	.65	RUEF900
RTEF Series — RoHS Compliant															
4	33	1.20	2.30	40	0.074	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.20 (5.1)	RTEF120-ND	.47	.43	.39	RTEF120
	33	1.35	2.50	40	0.059	0.10		0.29 (7.4)	0.56 (14.2)	0.20 (5.1)	RTEF135-ND	.48	.44	.40	RTEF135
	33	1.90	3.00	40	0.045	0.063		0.35 (8.9)	0.53 (13.5)	0.20 (5.1)	RTEF190-ND	.51	.47	.43	RTEF190

Fig.	Operating Voltage	Rated Current (20°C) (A) Hold	Trip	Maximum Interrupt Voltage	Maximum Interrupt Current	Initial Resistance RMin. (Ω)	RMax. (Ω)	Recognized By	Dimensions – Inches (mm) A	B	C (Max.)	D (Min.)	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
LVRL Line Voltage Series — RoHS Compliant																	
5A	120 VAC	0.75	1.52	135 VAC	7.5A	0.25	0.40	UL, TUV, CSA	0.43 (10.9)	0.67 (17.0)	0.23 (5.8)	0.30 (7.6)	LVRL075S-ND	.61	.57	.51	LVRL075S
	120 VAC	1.00	2.00	135 VAC	10.0A	0.18	0.27		0.45 (11.5)	0.79 (20.1)	0.23 (5.8)	0.30 (7.6)	LVRL100S-ND	.77	.71	.64	LVRL100S
	120 VAC	1.25	2.50	135 VAC	12.5A	0.12	0.18		0.55 (14.0)	0.85 (21.7)	0.23 (5.8)	0.30 (7.6)	LVRL125S-ND	.86	.80	.72	LVRL125S
	120 VAC	1.35	2.70	135 VAC	13.5A	0.11	0.17		0.64 (16.3)	0.85 (21.7)	0.23 (5.8)	0.30 (7.6)	LVRL135S-ND	.86	.80	.72	LVRL135S
	120 VAC	2.00	4.20	135 VAC	20.0A	0.08	0.12		0.93 (23.5)	1.25 (31.8)	0.43 (10.9)	0.30 (7.6)	LVRL200S-ND	1.20	1.10	1.00	LVRL200S
LVR Line Voltage Series — RoHS Compliant																	
5B	240 VAC	.05	.12	265 VAC	1.0A	18.5	31	UL, TUV, CSA	0.33 (8.3)	0.43 (10.7)	0.23 (5.8)	0.30 (7.6)	LVR005S-ND	.51	.47	.43	LVR005S
	240 VAC	.08	.19	265 VAC	1.2A	7.4	12		0.33 (8.3)	0.43 (10.7)	0.23 (5.8)	0.30 (7.6)	LVR008S-ND	.51	.47	.43	LVR008S

(Continued)

Fig. 4 — RTEF Series

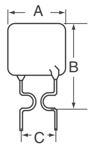

RTEF series polyswitches are specifically designed for IEEE-1394 applications.

Fig. 5 — LVR/ LVRL Series

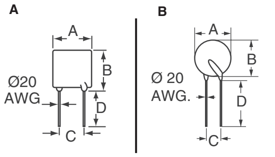

Polyswitch LVR/LVRL are designed for over-current protection in line voltage 120/240 VAC applications. Compliant with UL 1434 safety standards

Fig. 6 — RUSBF Series

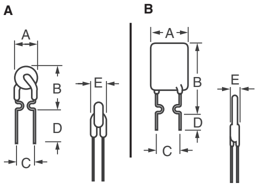

PolySwitch RUSB(F) devices are designed to meet USB and safety agency requirements. The RUSB(F) family of leaded resettable devices offers overcurrent protection for USB applications.

Fig. 7 — TR/TRF Series

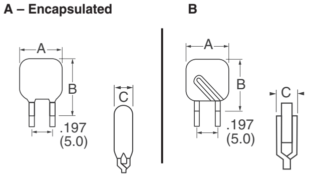

These product families help provide protection against power cross and power induction surge as defined in ITU, Telcordia, and UL. Warning: TR(F) devices are not intended for continuous utility line voltage such as 120/220V or 240Vdc. Operating Voltage: 60Vdc

Fig. 8 — SRPF Series

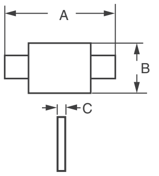

These products help provide reliable, non-cycling protection for rechargeable batteries. Weldable nickel leads and a narrow, low-profile design make these devices extremely easy to install on the edges of battery packs.

Fig.	Operating Voltage	Rated Current (20°C) (A) Hold	Trip	Maximum Interrupt Voltage	Maximum Interrupt Current	Initial Resistance RMin. (Ω)	RMax. (Ω)	Recognized By	Dimensions – Inches (mm) A	B	C (Max.)	D (Min.)	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
5B	240 VAC	.12	.30	265 VAC	1.2A	3.0	6.5	UL, TUV, CSA	0.33 (8.3)	0.43 (10.7)	0.23 (5.8)	0.30 (7.6)	LVR012S-ND	.51	.47	.43	LVR012S
5B	240 VAC	.16	.37	265 VAC	2.0A	2.5	4.1		0.39 (9.9)	0.50 (12.5)	0.23 (5.8)	0.30 (7.6)	LVR016S-ND	.54	.50	.45	LVR016S
5A	240 VAC	.25	.56	265 VAC	3.5A	1.3	2.1		0.38 (9.6)	0.69 (17.4)	0.23 (5.8)	0.30 (7.6)	LVR025S-ND	.60	.55	.50	LVR025S
5A	240 VAC	.40	.90	265 VAC	5.5A	0.6	0.97		0.46 (11.5)	0.77 (19.5)	0.23 (5.8)	0.30 (7.6)	LVR040S-ND	.69	.64	.58	LVR040S
5A	240 VAC	.55	1.25	265 VAC	7.0A	0.45	0.73		0.55 (14.0)	0.85 (21.7)	0.23 (5.8)	0.30 (7.6)	LVR055S-ND	.72	.66	.60	LVR055S
5A	240 VAC	.75	1.5	265 VAC	7.5A	0.32	0.48	UL, TUV, CSA	0.45 (11.5)	0.92 (23.4)	0.24 (6.1)	0.20 (5.1)	LVR075S-ND	.61	.57	.51	LVR075S
5B	240 VAC	1.00	2.00	265 VAC	10.0A	0.22	0.33		0.74 (18.7)	0.96 (24.4)	0.45 (11.4)	0.20 (5.1)	LVR100S-ND	.77	.71	.64	LVR100S
5B	240 VAC	1.25	2.50	265 VAC	12.5A	0.17	0.18		0.84 (21.2)	1.08 (27.4)	0.45 (11.4)	0.20 (5.1)	LVR125S-ND	.86	.80	.72	LVR125S
5A	240 VAC	2.00	4.00	265 VAC	20.0A	0.09	0.13		0.98 (24.9)	1.33 (33.8)	0.45 (11.4)	0.20 (5.1)	LVR200S-ND	1.20	1.10	1.00	LVR200S

Fig.	Maximum Voltage	Rated Current (20°C) (A) Hold	Trip	Initial Resistance RMin. (Ω)	RMax. (Ω)	Recognized By	Dimensions – Inches (mm) A (Max.)	B (Max.)	C (Max.)	D (Min.)	E (Max.)	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
						RUSBF Series — RoHS Compliant										
6A	6	0.75	1.3	0.110	0.177	UL, TUV, CSA	0.27 (6.9)	0.45 (11.4)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF075-ND	.38	.35	.32	RUSBF075
6B	16	0.90	1.8	0.070	0.121		0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF090-ND	.44	.41	.37	RUSBF090
6B	16	1.10	2.2	0.050	0.096		0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF110-ND	.45	.42	.38	RUSBF110
6A	6	1.20	2.0	0.650	0.098		0.27 (6.9)	0.46 (11.7)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF120-ND	.46	.42	.38	RUSBF120
6B	16	1.35	2.7	0.040	0.075		0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF135-ND	.46	.43	.39	RUSBF135
6A	6	1.55	2.65	0.043	0.071	UL, TUV, CSA	0.27 (6.9)	.46 (11.7)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF155-ND	.47	.43	.39	RUSBF155
6B	16	1.60	3.2	0.030	0.062		0.35 (8.9)	.60 (15.2)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF160-ND	.48	.44	.40	RUSBF160
6B	16	1.85	3.7	0.030	0.055		0.40 (10.2)	.62 (15.7)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF185-ND	.50	.46	.42	RUSBF185
6B	16	2.50	5.0	0.020	0.036		0.45 (11.4)	.72 (18.3)	0.23 (5.8)	0.30 (7.6)	0.12 (3.1)	RUSBF250-ND	.51	.47	.43	RUSBF250

Fig.	Max. Volt-age	Oper. Volt. (Vdc)	Rated Current (20°C) (A) Hold	Trip	Max. Current (A)	R Max. Initial (Ω)	Recognized By	Dimensions – Inches (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
							TR Series								
7A	600	60	0.150	0.30	3	10.0	UL, TUV, CSA	0.531 (13.50)	0.496 (12.60)	0.236 (6.00)	TR150RA-ND	1.18	1.09	.99	TR600-150-RA-B-0.5
							TRF Series — RoHS Compliant								
7B	250	60	0.080	0.16	3	20.0	UL, TUV, CSA	0.189 (4.80)	0.366 (9.30)	0.150 (3.80)	TRF250-080U-ND	.62	.58	.52	TRF250-080U
	250	60	0.120	0.24	3	10.0		0.236 (6.00)	0.394 (10.0)	0.150 (3.80)	TRF250-120U-ND	.62	.58	.52	TRF250-120U
	250	60	0.145	0.29	3	6.5		0.236 (6.00)	0.394 (10.0)	0.150 (3.80)	TRF250-145U-ND	.62	.58	.52	TRF250-145U
7A	250	60	0.120	0.24	3	8.0	UL, TUV, CSA	0.256 (6.50)	0.433 (11.0)	0.180 (4.60)	TRF250-120-ND	.67	.62	.56	TRF250-120
	250	60	0.145	0.29	3	6.0		0.256 (6.50)	0.433 (11.0)	0.180 (4.60)	TRF250-145-ND	.67	.62	.56	TRF250-145
	600	60	0.150	0.30	3	10.0		0.354 (9.0)	0.492 (12.5)	0.180 (4.60)	TRF600-150-ND	1.03	.95	.86	TRF600-150

Fig.	Max. Volt-age	Rated Current (20°C) (A) Hold	Trip	Maximum Current (A)	RMax. Initial (Ω)	Recognized By	Dimensions – Inches (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
						SRPF Series — RoHS Compliant								
8	15	1.20	2.70	100	0.16	UL, TUV, CSA	0.87 (22.1)	0.20 (5.2)	0.04 (1.0)	SRP120F-ND	.57	.53	.48	SRP120F
	15	1.75	3.80		0.09		0.91 (23.1)	0.20 (5.2)	0.04 (1.0)	SRP175F-ND	.57	.53	.48	SRP175F
	30	2.00	4.40		0.06		0.92 (23.4)	0.43 (11.0)	0.04 (1.0)	SRP200F-ND	.57	.53	.48	SRP200F
	30	3.50	6.30		0.03		1.25 (31.8)	0.53 (13.5)	0.04 (1.0)	SRP350F-ND	.63	.58	.53	SRP350F
	30	4.20	7.60		0.024		1.28 (32.4)	0.54 (13.6)	0.04 (1.0)	SRP420F-ND	.62	.57	.52	SRP420F

Fig.	Max. Volt.	Rated Current 20°C (A) Hold	Trip	Max. Current (A)	R1Max. Initial (Ω)	Recognized By	Dimensions – Inches (mm) A (Max.)	B (Max.)	C (Max.)	D	E	F	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Qty.	Pricing	Raychem Part No.
						SMDF Series — RoHS Compliant													
9	60	0.30	0.60	10	4.8	UL, TUV, CSA	0.314 (7.98)	0.125 (3.18)	0.214 (5.44)	0.12 (3.1)	0.201 (5.1)	0.09 (2.3)	SMD030FCT-ND	.65	.57	.52	2,000	315.00/M	SMD030F-2
	60	0.50	1.00	10	1.4		0.314 (7.98)	0.125 (3.18)	0.214 (5.44)	0.12 (3.1)	0.201 (5.1)	0.09 (2.3)	SMD050FCT-ND	.65	.57	.52	2,000	315.00/M	SMD050F-2
	30	0.75	1.50	40	1.0		0.314 (7.98)	0.125 (3.18)	0.214 (5.44)	0.12 (3.1)	0.201 (5.1)	0.09 (2.3)	SMD075FCT-ND	.65	.57	.52	2,000	315.00/M	SMD075F-2
	30	1.10	2.20	40	0.48		0.314 (7.98)	0.118 (3.00)	0.214 (5.44)	0.12 (3.1)	0.201 (5.1)	0.09 (2.3)	SMD100FCT-ND	.65	.57	.52	2,000	315.00/M	SMD100F-2
	15	1.25	2.50	40	0.25		0.314 (7.98)	0.118 (3.00)	0.214 (5.44)	0.12 (3.1)	0.200 (5.1)	0.09 (2.3)	SMD125FCT-ND	.65	.57	.52	2,000	315.00/M	SMD125F-2
	15	1.50	3.00	40	0.25		0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	0.18 (4.6)	0.240 (6.1)	0.09 (2.3)	SMD150FCT-ND	.69	.59	.54	1,500	329.00/M	SMD150F-2
	33	1.50	3.00	40	0.23		0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	0.18 (4.6)	0.240 (6.1)	0.09 (2.3)	SMD150F/33-2CT-ND	.69	.59	.54	1,500	329.00/M	SMD150F/33-2
	33	1.85	3.60	40	0.16		0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	0.18 (4.6)	0.240 (6.1)	0.09 (2.3)	SMD185F-2CT-ND	.73	.63	.58	1,500	351.00/M	SMD185F-2
	15	2.00	4.00	40	0.125		0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	0.18 (4.6)	0.240 (6.1)	0.09 (2.3)	SMD200FCT-ND	.69	.59	.54	1,500	329.00/M	SMD200F-2
	15	2.50	5.00	40	0.085		0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	0.18 (4.6)	0.240 (6.1)	0.09 (2.3)	SMD250FCT-ND	.70	.61	.56	1,500	338.00/M	SMD250F-2
	6	2.60	5.20	40	0.075		0.314 (7.98)	0.118 (3.00)	0.214 (5.44)	0.12 (3.1)	0.200 (5.1)	0.09 (2.3)	SMD260FCT-ND	.68	.59	.54	2,000	328.00/M	SMD260F-2
	6	3.00	6.00	40	0.048		0.314 (7.98)	0.118 (3.00)	0.214 (5.44)	0.12 (3.1)	0.200 (5.1)	0.09 (2.3)	SMD300FCT-ND	.68	.59	.54	2,000	328.00/M	SMD300F-2

Fig.	Max. Voltage	Rated Current (20°C) (A) Hold	Trip	Maximum Current (A)	R1Max. Initial (Ω)	Recognized By	Dimensions – Inches (mm) A (Max.)	B (Max.)	C (Max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Raychem Part No.
						miniSMDF Series — RoHS Compliant										
10	60	0.14	0.34	10	6.0	UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.035 (0.89)	MINISMDC014FCT-ND	.50	.43	.40	2,000	240.00/M	MINISMDC014F-2
	30	0.20	0.40	10	3.3		0.186 (4.73)	0.134 (3.41)	0.035 (0.89)	MINISMDC020FCT-ND	.48	.42	.38	2,000	233.00/M	MINISMDC020F-2
	24	0.50	1.00	100	1.0		0.186 (4.73)	0.134 (3.41)	0.025 (0.62)	MINISMDC050FCT-ND	.48	.42	.38	2,000	233.00/M	MINISMDC050F-2
	13.2	0.75	1.50	100	0.45		0.186 (4.73)	0.134 (3.41)	0.025 (0.62)	MINISMDC075FCT-ND	.50	.43	.40	2,000	240.00/M	MINISMDC075F-2

† For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Fig. 9 — SMDF Series

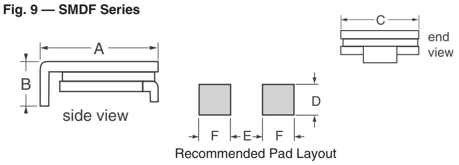

This product series is specifically designed for surface mount applications. The products range in hold currents from 0.3 amps ~ 3.0 amps and voltages from 6 volts ~ 60 volts. These devices are ideally suited for high density board applications in computer and computer peripheral products, telecommunications and general electronics applications. They are designed to be reflowed onto a PCB using standard surface mount processes. Packaged per EIA-481 standard.

Fig. 10 — miniSMDF Series

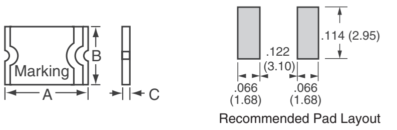

The miniSMDF resettable devices extremely small size make them excellent choices for keyboard and mouse ports, SCSI devices, battery packs, PC cards and sockets, cellular modems and phones, and portable electronic equipment. SMT packaging for automated assembly compared to SMD the miniSMD offers: 40% reduction in size, 300% faster time to trip, 50% reduction in DC resistance, 66% reduction in profile, 80% reduction in mass and drop in replacement for the NANO 2 device in many applications.

Fig. 11 — microSMDF Series

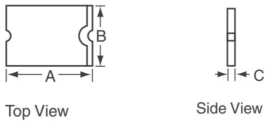

This product series is designed for surface-mount applications. Its smaller component size enables installation on crowded printed circuit boards and in small end-user devices such as digital cameras, personal digital assistants (PDAs) and palm-top computers. The new low hold current devices are ideal for protecting industrial sensors and data acquisition systems.

Fig. 12 — nanoSMDF Series (1206 Footprint)

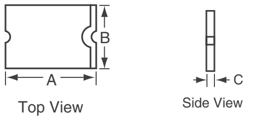

The nanoSMD(F) series reduces the component size to a 1206 footprint, nearly half the size of the microSMD(F) series and one-quarter the size of the popular miniSMDF series. The industries fastest time to trip. Smaller size saves board space and cost. Compatible with high volume electronics assembly.

Fig. 13 — picoSMDF Series (0805 Footprint) ***NEW!***

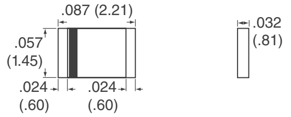

The picoSMD(F) series is designed for the latest generation of high frequency data ports, I/O ports and storage devices, and offers circuit designers the smallest PPTC overcurrent protection device available for consumer and computer electronics. The device's small size, fast time-to-trip, and low power dissipation make it a logical and innovative solution for high-density circuit board designs.

Fig.	Max. Voltage	Rated Current (20°C) (A) Hold	Trip	Max. Current (A)	R_1 Max. Initial (Ω)	Recognized By	Dimensions – Inches (mm) A (Max.)	B (Max.)	C (Max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Raychem Part No.
10	24	0.75	1.50	40	0.29	UL, TUV, CSA	0.190 (4.83)	0.134 (3.41)	0.051 (1.30)	MINISMDC075F242CT-ND	.63	.54	.50	1,500	301.00/M	MINISMDC075F/24-2
	8	1.10	2.20	100	0.21		0.186 (4.73)	0.134 (3.41)	0.025 (0.62)	MINISMDC110FCT-ND	.41	.35	.32	2,000	195.00/M	MINISMDC110F-2
	24	1.10	2.20	20	0.18		0.190 (4.83)	0.134 (3.41)	0.051 (1.30)	MINISMDC110F242CT-ND	.63	.54	.50	1,500	301.00/M	MINISMDC110F/24-2
	6	1.25	2.50	100	0.14		0.186 (4.73)	0.134 (3.41)	0.019 (0.48)	MINISMDC125FCT-ND	.48	.42	.38	2,000	233.00/M	MINISMDC125F-2
	16	1.25	2.50	100	0.14		0.190 (4.83)	0.134 (3.41)	0.019 (0.48)	MINISMDC125F162CT-ND	.56	.49	.45	2,000	271.00/M	MINISMDC125F/16-2
	6	1.50	3.00	100	0.11		0.186 (4.73)	0.134 (3.41)	0.019 (0.48)	MINISMDC150FCT-ND	.50	.43	.40	2,000	240.00/M	MINISMDC150F-2
	12	1.50	2.80	100	0.11		0.186 (4.73)	0.134 (3.41)	0.019 (0.48)	MINISMDC150F122CT-ND	.56	.49	.45	2,000	271.00/M	MINISMDC150F/12-2
	24	1.50	3.00	20	0.12		0.190 (4.83)	0.134 (3.41)	0.066 (1.68)	MINISMDC150F242CT-ND	.70	.60	.55	1,000	336.00	MINISMDC150F/24-2
	9	1.60	3.20	100	0.10		0.186 (4.73)	0.134 (3.41)	0.019 (0.48)	MINISMDC160FCT-ND	.48	.42	.38	2,000	233.00/M	MINISMDC160F-2
	8	2.00	4.00	100	0.07		0.186 (4.73)	0.134 (3.41)	0.048 (1.22)	MINISMDC200FCT-ND	.55	.48	.44	2,000	265.00/M	MINISMDC200F-2
	6	2.60	5.00	100	0.04		0.186 (4.73)	0.134 (3.41)	0.029 (0.74)	MINISMDC260FCT-ND	.55	.48	.44	2,000	265.00/M	MINISMDC260F-2
microSMDF Series — RoHS Compliant																
11	30	0.05	0.15	10	50	UL, TUV, CSA	0.135 (3.43)	0.110 (2.79)	0.034 (0.85)	MICROSMD005FCT-ND	.50	.44	.40	4,000	243.00/M	MICROSMD005F-2
	30	0.10	0.25	10	15		0.135 (3.43)	0.110 (2.79)	0.034 (0.85)	MICROSMD010FCT-ND	.50	.44	.40	4,000	243.00/M	MICROSMD010F-2
	6	0.35	0.75	40	1.3		0.135 (3.43)	0.110 (2.79)	0.025 (0.64)	MICROSMD035FCT-ND	.50	.44	.40	4,000	243.00/M	MICROSMD035F-2
	13.2	0.50	1.0	40	0.90		0.135 (3.43)	0.110 (2.79)	0.025 (0.64)	MICROSMD050FCT-ND	.50	.44	.40	4,000	243.00/M	MICROSMD050F-2
	6	0.75	1.5	40	0.40		0.135 (3.43)	0.110 (2.79)	0.025 (0.64)	MICROSMD075FCT-ND	.50	.44	.40	4,000	243.00/M	MICROSMD075F-2
	6	1.10	2.2	40	0.21		0.135 (3.43)	0.110 (2.79)	0.019 (0.48)	MICROSMD110FCT-ND	.50	.44	.40	4,000	243.00/M	MICROSMD110F-2
	6	1.50	3.00	40	0.11		0.135 (3.43)	0.110 (2.79)	0.048 (1.22)	MICROSMD150FCT-ND	.51	.44	.40	4,000	244.00/M	MICROSMD150F-2
	6	1.75	3.50	40	0 .08		0.135 (3.43)	0.110 (2.79)	0.030 (0.76)	MICROSMD175FCT-ND	.51	.44	.40	4,000	244.00/M	MICROSMD175F-2
nanoSMDF Series — RoHS Compliant																
12	48	0.16	0.45	10	1.10	UL, TUV, CSA	0.134 (3.40)	0.071 (1.80)	0.039 (1.00)	NANOSMDC016F-2CT-ND	.48	.42	.38	3,000	231.00/M	NANOSMDC016F-2
	24	0.20	0.42	100	2.6		0.134 (3.40)	0.071 (1.80)	0.025 (0.64)	NANOSMDC020FCT-ND	.48	.42	.38	3,000	231.00/M	NANOSMDC020F-2
	16	0.35	0 .75	20	1.40		0.134 (3.40)	0.071 (1.80)	0.025 (0.64)	NANOSMDC035FCT-ND	.48	.42	.38	3,000	231.00/M	NANOSMDC035F-2
	13.2	0.50	1.10	100	0.8		0.134 (3.40)	0.071 (1.80)	0.025 (0.64)	NANOSMDC050F/13.2CT-ND	.48	.42	.38	3,000	231.00/M	NANOSMD0C50F/13.2-2
	6	0.75	1.50	100	0.40		0.134 (3.40)	0.071 (1.80)	0.048 (1.22)	NANOSMDC075FCT-ND	.48	.42	.38	3,000	231.00/M	NANOSMDC075F-2
	6	1.10	2.20	100	0.20		0.134 (3.40)	0.071 (1.80)	0.039 (1.00)	NANOSMDC110FCT-ND	.49	.42	.39	3,000	235.00/M	NANOSMDC110F-2
	6	1.50	3.00	100	0.11		0.134 (3.40)	0.071 (1.80)	0.035 (0.89)	NANOSMDC150FCT-ND	.49	.42	.39	3,000	235.00/M	NANOSMDC150F-2
NEW! picoSMDF Series — RoHS Compliant NEW!																
13	6	0.35	0.75	20	1.40	UL, TUV, CSA	—	—	—	PICOSMD035F-2CT-ND	.48	.42	.38	4,000	231.19/M	PICOSMD035F-2

† For Tape and Reel part number, change CT-ND to TR-ND.

NEW! SiBar™ Thyristor Surge Protectors

Digi-Reel® RoHS COMPLIANT

SiBar thyristor surge protection devices help protect sensitive telecom and datacom equipment from overvoltage events, including lightning transients, and operate as shunt devices in response to a surge that exceeds the breakover voltage. Compliant with major standards such as GR-1089 Core, ITU-T-K20/K21, IEC61000-4-5 and FCC part 68, and UL1950. SiBar devices provide fast, bi-directional protection on communications network equipment, including analog and digital linecards, xDSL and ISDN modems, set-top boxes, TI equipment, Voice over IP (VoIP) and Power over Ethernet (PoE) equipment.

Features: • Bidirectional transient voltage protection • High off-state impedance • Low on-state voltage • High surge capability • Short-circuit failure mode • Surface-mount technology

Dim. inches (mm)

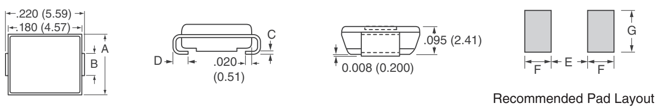

V_{DM} Max. (V)	V_{BO} Max. (V)	I_H Min. (mA)	V_T Max. (V)	C_1@50V Typical (pF)	C_2@2V Typical (pF)	I_{TSM} Min. (A)	Dimensions – Inches (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Qty.	Pricing	Raychem Part No.
Standard SMA Package (JEDEC DO-214AC)																				
270	365	150	4.0	16	31	22	0.115 (2.92)	0.065 (1.65)	0.016 (0.41)	0.060 (1.52)	0.079 (2.00)	0.079 (2.00)	0.079 (2.00)	TVA270SA-LCT-ND	.53	.45	.42	5,000	241.00/M	TVA270SA-L
Standard SMB Package (JEDEC DO-214AA)																				
6	20	50 (Typ.)	4.0	—	50	28	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	TVB006SB-LCT-ND	1.47	1.26	1.16	2,500	705.60/M	TVB006SB-L
25	40	150	4.0	—	65	41	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	TVB025RSC-LCT-ND	.91	.78	.72	2,500	436.80/M	TVB025RSC-L

† For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

V_{DM} Max. (V)	V_{BO} Max. (V)	I_H Min. (mA)	V_T Max. (V)	C_1@50V Typ. (pF)	C_2@2V Typical (pF)	I_{TSM} Min. (A)	Dimensions – Inches (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Qty.	Pricing	Raychem Part No.
170	265	150	4.0	18	35	22	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	TVB170SA-LCT-ND	.53	.45	.42	2,500	252.00/M	TVB170SA-L
170	220	150	4.0	30	60	41	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	TVB170RSC-LCT-ND	.83	.72	.66	2,500	398.16/M	TVB170RSC-L
220	295	150	4.0	30	60	41	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	TVB220RSC-LCT-ND	.91	.78	.72	2,500	436.80/M	TVB220RSC-L
270	365	150	4.0	15	32	22	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	TVB270SA-LCT-ND	.53	.45	.42	2,500	252.00/M	TVB270SA-L
270	350	150	4.0	25	50	30	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	TVB270SB-LCT-ND	.74	.63	.58	2,500	353.00/M	TVB270SB-L
270	365	150	4.0	50	110	60	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	TVB270SC-LCT-ND	.95	.81	.75	2,500	453.00/M	TVB270SC-L
275	350	150	4.0	15	31	22	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	TVB275NSA-LCT-ND	.53	.45	.42	2,500	252.00/M	TVB275NSA-L
275	350	150	4.0	20	40	41	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	TVB270MSC-LCT-ND	1.02	.88	.81	2,500	488.98/M	TVB270MSC-L

† For Tape and Reel part number, change CT-ND to TR-ND.

PolyZen Polymer Protected Zener Diodes

RoHS COMPLIANT

PolyZen devices are polymer protected precision Zener diode micro-assemblies. An advanced feature of the PolyZen micro-assembly is that its Zener and follow-on electronics are additionally protected by a resistively non-linear, polymer PTC (positive temperature coefficient) layer. This PTC layer is fully integrated into the device, is thermally coupled to the diode, and is electrically in series between V_{IN} and the diode clamped V_{OUT}. This advanced PTC layer responds to either diode heating or overcurrent events by transitioning from a low to high resistance state, also known as "tripping". A tripped PTC will limit current and generate a voltage drop, which helps to protect both the Zener and the follow-on electronics. This integrated PTC effectively increases the diode's power handling capability.

Benefits: • Helps shield downstream electronics from overvoltage and reverse bias • Trip events shut out overvoltage and reverse bias sources • Analog nature of trip events minimizes upstream inductive spikes • Helps reduce design costs with single component placement and minimal heat sinking requirements

Features: • Overvoltage transient suppression • Stable VZ vs. fault current • Time delayed, overvoltage trip • Time delayed, reverse bias trip • Power handling on the order of 100 watt • Integrated device construction

Applications: • DC power port protection for systems using barrel jacks for power input • USB peripheral protection • DC power port protection in portable electronics • Automotive peripheral input power protection

General Characteristics: • **Operating Temperature Range:** -40°C ~ 85°C • **ESD Withstand:** 15KV Human Body Model • **Diode Capacitance:** 4200pF Typical @ 1MHz, 1V RMS

Test Board Features: • **Thickness:** 0.062 inches • **Board Material:** FR4 Laminate (glass, epoxy) with 2-sided 2oz. copper cladding • **Plating:** 3 ~ 5µ inches Gold over 100µ inches Nickel on all exposed pads and vias • **Connections:** 3 Gold-plated contact fingers (.30" X .50") identified V_{IN}, V_{OUT}, GND. 3 Gold-plated vias provided as alternate connections.

Dim. in inches (mm)

Fig. 1 — SMD

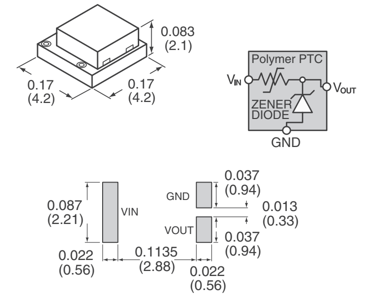

Fig. 2 — Test Board

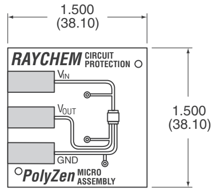

Fig.	V_Z (V) Typical	I_{zt} (A)	I_{HOLD} @ 20°C (A)	R Typ. (Ω)	R_1Max. (Ω)	V_{INT} Max. @ 3V (V)	I_{FLT} Max. @ 16V (A)	Power Dissipation Typ. (W)	Digi-Key Part No.	Pricing 1	10	25	100	Tape and Reel† Pricing 3,000	Raychem Part No.
1	5.6	0.1	1.3	0.12	0.16	24	+10 / -40	0.7	ZEN056V130A24LSCT-ND◊	1.30	11.10	—	101.75	795.50/M	ZEN056V130A24LS
	13.2	0.1	1.3	0.12	0.16	24	+3 / -40	0.7	ZEN132V130A24LSCT-ND◊	1.30	11.10	—	101.75	795.50/M	ZEN132V130A24LS
2	5.6	0.1	1.3	0.12	0.16	24	+10 / -40	0.7	ZEN056V130A24LSTB-ND§	8.40	63.00	148.75	—	—	ZEN056V130A24LS-TB
	13.2	0.1	1.3	0.12	0.16	24	+3 / -40	0.7	ZEN132V130A24LSTB-ND§	8.40	63.00	148.75	—	—	ZEN132V130A24LS-TB

◊ Cut Tape § Test Board † For Tape and Reel part number, change CT-ND to TR-ND.

2Pro™ Overcurrent/Overvoltage Device

RoHS COMPLIANT

The 2Pro product is an integrated overcurrent/overvoltage protection device. The component incorporates Polyswitch PPTC and metal oxide varistor technology in a single device. The 2Pro helps provide current limiting during overcurrent events, and voltage clamping during overvoltage events. After a fault condition is removed and power is cycled, 2Pro devices will reset so that communications equipment remain operational.

2Pro circuit protection devices help manufacturers comply with global safety standards, including UL 60950, TIA-968-A, IEC 60950, and ITU-T K.20/K.21. The UL 497A listed protector also helps provide ESD protection.

Agency Recognition: • UL 497A/File No. E258475

Dim. in inches

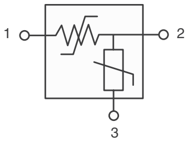

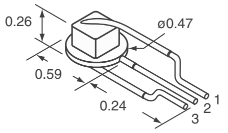

Overcurrent Terminals 1 - 2: Rated Current (20°) (A) Hold	Trip	Initial Resistance RMin. (Ω)	RMax (Ω)	Overvoltage Terminals 2 - 3: Varistor Voltage V @ 1mA DC (V)	Max. Clamping Voltage @ 25A (V)	Digi-Key Part No.	Pricing 1	10	100	Raychem Part No.
0.15	0.30	7.0	14.0	270	455	TM2P-10271-ND	.96	8.80	80.00	TM2P-10271

ESD Protection Devices

Digi-Reel® RoHS COMPLIANT

The Raychem PESD electrostatic discharge protection devices provide exceptionally low capacitance, and they perform better than other comparable components in transmission line pulse (TLP) testing, as well as IEC61000-4-2 testing, especially after multiple hits (up to 1000).

The devices offer a lower trigger voltage and a lower clamping voltage than typical polymer ESD devices, resulting in improved protection of sensitive electronic components.

Fig. 1

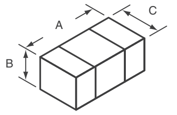

Package Size	Dimensions – mm A (max.)	B (max.)	C (max.)
0402	1.05	0.43	0.55
0603	1.80	0.60	0.90

Fig. 2

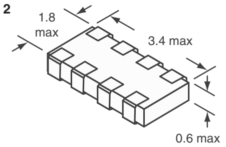

Fig.	Package Size	Max. V_{DC} (V)	Trigger $V_{T(IEC)}$▲ (V)	Clamping $V_{C(IEC)}$▲§ (V)	Cp @ 1MHz, $1V_{RMS}$ (pF)	IL(Max.) @ Max V_{DC} (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel† Qty.	Pricing	Raychem Part No.
1	0402	6	150	25	0.25	0.05	PESD0402-060CT-ND	.24	2.07	18.98	PESD0402-060TR-ND	10,000	90.00/M	PESD0402-060
	0603	24	215	45	0.20	0.01	PESD0603-240CT-ND ***NEW!***	.19	1.65	15.13	PESD0603-240TR-ND ***NEW!***	5,000	86.00/M	PESD0603-240
2	(4)1206‡	14	350	30	0.25	0.01	PESD1206Q-140CT-ND	.58	4.95	45.38	PESD1206Q-140TR-ND	5,000	256.00/M	PESD1206Q-140

▲ Measured during IEC 61000-4-2, level 4 pulse § Measured 30ns after pulse initiation † For Tape and Reel part number, change CT-ND to TR-ND. ‡ Four individual suppressors

Tyco Electronics
Authorized Distributor

Raychem
CIRCUIT PROTECTION

Fast Acting SMD Fuses

RoHS COMPLIANT

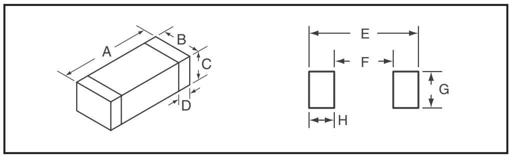

Benefits: • Small size with high current ratings • Excellent temperature stability • High reliability and resilience • Strong arc suppression characteristics

Target Applications: • Laptops • Digital cameras • Cell phones • Printers • DVD players • Portable electronics • Game systems • LCD displays • Scanners

Features:• Monolithic, multilayer design • Lead-free construction • High temperature performance • Operating Temperature Range: -55°C ~ 125°C

Agency Approvals: UL File# E197536

Rated Current (A)	Nominal Cold DCR^2 (Ω)	Max. Interrupt Ratings Voltage (V_{DC})	Max. Interrupt Ratings Current (A)	Dimensions - Inches (mm) A	B	C	D	E	F	G	H	Digi Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Tape and Reel† Pricing	Raychem Part No.
0402 Series																		
1.00	0.120	24	35	1.00 (25.4)	0.51 (12.95)	0.51 (12.95)	0.25 (6.35)	1.60 (40.64)	0.40 (10.16)	0.70 (17.78)	0.60 (15.24)	0402SFF100F/24CT-ND	.53	.45	.42	10,000	195.00/M	0402SFF100F/24-2
2.00	0.035	24	35									0402SFF200F/24CT-ND	.53	.45	.42	10,000	195.00/M	0402SFF200F/24-2
3.00	0.021	24	35									0402SFF300F/24CT-ND	.53	.45	.42	10,000	195.00/M	0402SFF300F/24-2
4.00	0.014	24	35									0402SFF400F/24CT-ND	.53	.45	.42	10,000	195.00/M	0402SFF400F/24-2
0603 Series																		
1.00	0.131	32	50	1.60 (40.64)	0.80 (20.32)	0.80 (20.32)	0.36 (9.14)	2.80 (71.12)	0.60 (15.24)	1.00 (25.4)	1.09 (27.69)	0603SFF100F/32CT-ND	.42	.36	.33	4,000	202.00/M	0603SFF100F/32-2
1.50	0.059	32	35									0603SFF150F/32CT-ND	.42	.36	.33	4,000	202.00/M	0603SFF150F/32-2
2.00	0.044	32	35									0603SFF200F/32CT-ND	.42	.36	.33	4,000	202.00/M	0603SFF200F/32-2
2.50	0.032	32	35									0603SFF250F/32CT-ND	.42	.36	.33	4,000	202.00/M	0603SFF250F/32-2
3.00	0.025	32	35									0603SFF300F/32CT-ND	.42	.36	.33	4,000	202.00/M	0603SFF300F/32-2
3.50	0.024	32	35									0603SFF350F/32CT-ND	.42	.36	.33	4,000	202.00/M	0603SFF350F/32-2
4.00	0.018	32	35									0603SFF400F/32CT-ND	.42	.36	.33	4,000	202.00/M	0603SFF400F/32-2
5.00	0.013	32	35									0603SFF500F/32CT-ND	.42	.36	.33	4,000	202.00/M	0603SFF500F/32-2
6.00	0.010	24	35									0603SFF600F/24CT-ND	.63	.54	.50	4,000	240.00/M	0603SFF600F/24-2
1206 Series																		
1.00	0.220	63	50	3.20 (81.28)	1.60 (40.64)	1.10 (27.94)	0.51 (12.95)	4.40 (111.76)	1.50 (38.10)	1.80 (45.72)	1.45 (36.83)	1206SFF100F/63CT-ND	.46	.39	.36	3,000	219.00/M	1206SFF100F/63-2
1.50	0.120	63	50									1206SFF150F/63CT-ND	.46	.39	.36	3,000	219.00/M	1206SFF150F/63-2
1.75	0.100	63	50									1206SFF175F/63CT-ND	.46	.39	.36	3,000	219.00/M	1206SFF175F/63-2
2.00	0.050	63	50									1206SFF200F/63CT-ND	.46	.39	.36	3,000	219.00/M	1206SFF200F/63-2
2.50	0.035	32	50									1206SFF250F/32CT-ND	.46	.39	.36	3,000	219.00/M	1206SFF250F/32-2
3.00	0.031	32	50									1206SFF300F/32CT-ND	.46	.39	.36	3,000	219.00/M	1206SFF300F/32-2
4.00	0.022	32	45									1206SFF400F/32CT-ND	.46	.39	.36	3,000	219.00/M	1206SFF400F/32-2
5.00	0.015	32	45									1206SFF500F/32CT-ND	.46	.39	.36	3,000	219.00/M	1206SFF500F/32-2

† For Tape and Reel part number, change CT-ND to TR-ND.

Overcurrent Fuses — FT600 Series

RoHS COMPLIANT

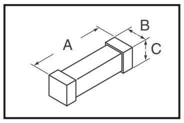

Benefits: • When combined with a SiBar™ overvoltage protection device, assists equipment in meeting regulatory standards with no additional series components • Improved temperature rise performance over other similar SMT fuse devices under sneak current testing • High density placement in multi-port system designs

Target Applications: • xDSL and ADSL linecards and modems • T1/E1 systems • Twisted pair telecom ports requiring Telcordia GR-1089, UL60950 and FCC Part 68 compliance

Features: • The lightning robust surface-mount fuse offers overcurrent protection from power faults • Designed to assist equipment in complying with telecom specifications including UL60950, FCC Part 68, and Telcordia GR-1089

Specifications: • **Termination Material:** Silver-plated brass • **Body Material:** Ceramic

Ampere Rating (A)	Voltage Rating (V)	Typical Resistance Ω	Dimensions Inches (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Qty.	Tape & Reel† Pricing	Raychem Part No.
1.25	250	0.1	0.413 (10.5)	0.133 (3.4)	0.133 (3.4)	FT600-1250CT-ND	.88	.75	.69	2,500	420.00/M	FT600-1250-2
2.00	250	0.05	0.413 (10.5)	0.133 (3.4)	0.133 (3.4)	FT600-2000CT-ND	.88	.75	.69	2,500	420.00/M	FT600-2000-2

† For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic®

Micro Chip Fuse Surface Mount

Digi-Reel® RoHS COMPLIANT

Features: • Sharp fusing characteristics (Very fast acting)
Applications: • Computer and peripheral equipment, mobile phone and other digital devices
Approved Safety Standards: • C-UL(CSA)C22.2 No. 248-14: File No. E194052; UL 248-14: File No. E194052
Specifications: • Operating Temperature Range: -40°C ~ 125°C • Fusing Current/Fusing Time (at 25°C): Rated current x 100% / 4 hours minimum or rated current x 200% / 1 second maximum or rated current x 300% / 0.2 seconds maximum

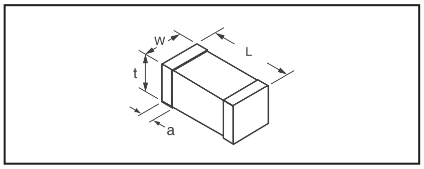

Type	Dimensions (mm) L	W	a	t
ERB-SE	1.60±0.15	0.80±0.15	0.30±0.20	0.70±0.10
ERB-SD	1.00±0.10	0.50±0.10	0.20±0.15	0.40±0.10

Rated Current (A)	Rated Voltage (VDC)	Marking Code	Internal R. (mOhms) Max. @ 25°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing	Panasonic Part No.
ERB-SE Series — 0603											
0.5	32	F	370	P11369CT-ND	.50	.47	.35	P11369TR-ND	5,000	192.04/M	ERB-SE0R50U
0.75	32	G	245	P11370CT-ND	.50	.47	.35	P11370TR-ND	5,000	192.04/M	ERB-SE0R75U
1.0	32	H	155	P11371CT-ND	.50	.47	.35	P11371TR-ND	5,000	192.04/M	ERB-SE1R00U
1.25	32	J	120	P11372CT-ND	.50	.47	.35	P11372TR-ND	5,000	192.04/M	ERB-SE1R25U
1.5	32	K	90	P11373CT-ND	.50	.47	.35	P11373TR-ND	5,000	192.04/M	ERB-SE1R50U
2.0	32	N	60	P11374CT-ND	.50	.47	.35	P11374TR-ND	5,000	192.04/M	ERB-SE2R00U
2.5	32	O	48	P11375CT-ND	.50	.47	.35	P11375TR-ND	5,000	192.04/M	ERB-SE2R50U
3.0	32	P	36	P11376CT-ND	.50	.47	.35	P11376TR-ND	5,000	192.04/M	ERB-SE3R00U
4.0	32	S	28	P13572CT-ND	.50	.47	.36	P13572TR-ND	5,000	194.00/M	ERB-SE4R00U
5.0	32	T	20	P13573CT-ND	.50	.47	.36	P13573TR-ND	5,000	194.00/M	ERB-SE5R00U
ERB-SD Series — 0402											
0.5	24	F	330	P11361CT-ND	.50	.47	.35	P11361TR-ND	10,000	192.04/M	ERB-SD0R50U
0.75	24	G	200	P11362CT-ND	.50	.47	.35	P11362TR-ND	10,000	192.04/M	ERB-SD0R75U
1.0	24	H	135	P11363CT-ND	.50	.47	.35	P11363TR-ND	10,000	192.04/M	ERB-SD1R00U
1.25	24	J	100	P11364CT-ND	.50	.47	.35	P11364TR-ND	10,000	192.04/M	ERB-SD1R25U
1.5	24	K	80	P11365CT-ND	.50	.47	.35	P11365TR-ND	10,000	192.04/M	ERB-SD1R50U
2.0	24	N	53	P11366CT-ND	.50	.47	.35	P11366TR-ND	10,000	192.04/M	ERB-SD2R00U
2.5	24	O	40	P11367CT-ND	.50	.47	.35	P11367TR-ND	10,000	192.04/M	ERB-SD2R50U
3.0	24	P	33	P11368CT-ND	.50	.47	.35	P11368TR-ND	10,000	192.04/M	ERB-SD3R00U

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

BOURNS **Multifuse**

Resettable Overcurrent Protectors

Digi-Reel®

Bourns' Multifuse products provide overcurrent protection against circuit faults and safeguard against potential overcurrent damage of critical circuitry and loads in a vast amount of applications. **Agency Approvals:** • MF-R, MF-RX, MF-USMD, MF-MSMD, MF-SM, MF-MSMF – UL, CSA, TUV Approved • MF-NSMF – UL Approved • MF-SMDF – Agency Recognition Pending

Fig. 1

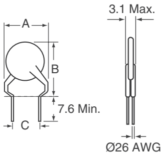

Fig. 2

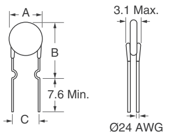

Fig. 3

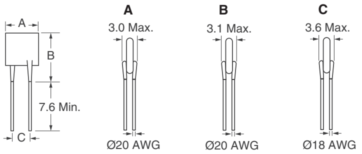

Fig. 4

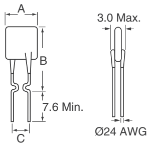

Fig. 5

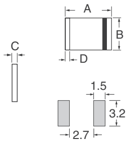

Fig. 6

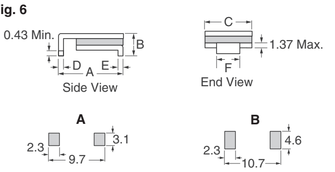

Fig. 7

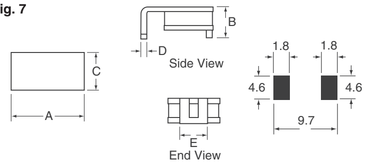

Fig. 8

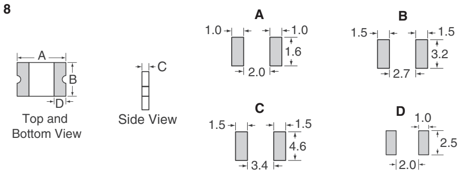

Fig.	Max. Voltage	I Max. (Amps)	Rated Current @ 23°C (Amps) Hold	Trip	Initial Resistance @ 23°C (Ω) Min.	Max.	Post-Trip Resistance	Dimensions – mm A (Max.)	B (Max.)	C (Nom.)	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Bourns Part No.
1	60	40	0.05	0.10	7.3	11.1	22.0	8.0	8.3	5.1	MF-R005-0-ND◆	.48	.44	.40	.32	.26	MF-R005-0
2	30	40	1.10	2.20	0.10	0.18	0.27	8.9	14.0	5.1	MF-R110-ND◆	.54	.50	.45	.36	.31	MF-R110
			1.35	2.70	0.065	0.115	0.17	8.9	18.9	5.1	MF-R135-ND◆	.54	.50	.45	.36	.31	MF-R135
			1.60	3.20	0.055	0.105	0.15	10.2	16.8	5.1	MF-R160-ND◆	.60	.55	.50	.41	.36	MF-R160
			1.85	3.70	0.040	0.07	0.11	12.0	18.4	5.1	MF-R185-ND◆	.46	.42	.39	.31	.27	MF-R185
	60	40	0.10	0.20	2.50	4.50	7.50	7.4	12.7	5.1	MF-R010-ND◆	.36	.34	.31	.25	.22	MF-R010
			0.17	0.34	2.00	3.20	8.00	7.4	12.7	5.1	MF-R017-ND◆	.48	.44	.40	.32	.28	MF-R017
			0.20	0.40	1.50	2.84	4.40	7.4	12.7	5.1	MF-R020-ND◆	.51	.47	.43	.34	.29	MF-R020
			0.25	0.50	1.00	1.95	3.00	7.4	12.7	5.1	MF-R025-ND◆	.51	.47	.43	.34	.29	MF-R025
			0.30	0.60	0.76	1.36	2.10	7.4	13.4	5.1	MF-R030-ND◆	.38	.35	.33	.26	.23	MF-R030
			0.40	0.80	0.52	0.86	1.29	7.4	13.7	5.1	MF-R040-ND◆	.54	.50	.45	.36	.30	MF-R040
			0.50	1.00	0.41	0.77	1.17	7.9	13.7	5.1	MF-R050-ND◆	.54	.50	.45	.35	.31	MF-R050
			0.65	1.30	0.27	0.48	0.72	9.7	15.2	5.1	MF-R065-ND◆	.54	.50	.45	.36	.31	MF-R065
			0.75	1.50	0.18	0.40	0.60	10.4	16.0	5.1	MF-R075-ND◆	.49	.46	.40	.38	.37	MF-R075
			0.90	1.80	0.14	0.31	0.47	11.7	16.7	5.1	MF-R090-ND◆	.54	.50	.45	.37	.32	MF-R090
3A	30	40	2.50	5.00	0.025	0.048	0.07	12.0	18.3	5.1	MF-R250-ND◆	.66	.61	.55	.44	.35	MF-R250
			3.00	6.00	0.020	0.05	0.08	12.0	18.3	5.1	MF-R300-ND◆	.49	.46	.42	.34	.29	MF-R300
			4.00	8.00	0.010	0.03	0.05	14.4	24.8	5.1	MF-R400-ND◆	.72	.66	.60	.48	.42	MF-R400
			5.00	10.00	0.010	0.03	0.05	17.4	24.9	10.2	MF-R500-ND◆	.78	.72	.65	.52	.45	MF-R500
			6.00	12.00	0.005	0.02	0.04	19.3	31.9	10.2	MF-R600-ND◆	.81	.75	.68	.53	.46	MF-R600
			7.00	14.00	0.005	0.02	0.03	22.1	29.8	10.2	MF-R700-ND◆	.84	.77	.70	.56	.48	MF-R700
			8.00	16.00	0.005	0.02	0.03	24.2	32.9	10.2	MF-R800-ND◆	.87	.80	.73	.58	.51	MF-R800
			9.00	18.00	0.005	0.01	0.02	24.2	32.9	10.2	MF-R900-ND◆	.93	.86	.78	.61	.53	MF-R900
	16	100	11.00	22.00	0.003	0.01	0.014	24.2	32.9	10.2	MF-R1100-ND◆	.93	.86	.78	.62	.47	MF-R1100
			4.5	7.8	0.022	—	0.054	10.4	15.6	5.1	MF-RHT450-ND◆	.72	.66	.60	.48	.38	MF-RHT450
			6.5	12.0	0.011	—	0.026	12.7	22.2	5.1	MF-RHT650-0-ND◆	.78	.72	.65	.52	.40	MF-RHT650-0
			7.5	13.1	0.0094	—	0.022	14.0	23.5	5.1	MF-RHT750-0-ND◆	.81	.75	.68	.54	.42	MF-RHT750-0
3B	72	40	1.10	2.20	0.15	0.25	0.38	10.84	16.8	5.1	MF-RX110/72-0-ND◆	.54	.50	.45	.36	.29	MF-RX110/72-0
			1.35	2.70	0.12	0.19	0.30	12.26	18.3	5.1	MF-RX135/72-0-ND◆	.57	.53	.48	.38	.31	MF-RX135/72-0
			1.60	3.20	0.09	0.14	0.22	13.94	19.9	5.1	MF-RX160/72-0-ND◆	.60	.55	.50	.40	.31	MF-RX160/72-0
			1.85	3.70	0.08	0.12	0.19	15.18	21.2	5.1	MF-RX185/72-0-ND◆	.60	.55	.50	.40	.31	MF-RX185/72-0
			2.50	5.00	0.05	0.08	0.13	17.84	23.8	10.2	MF-RX250/72-0-ND◆	.66	.61	.55	.44	.35	MF-RX250/72-0
			3.00	6.00	0.04	0.06	0.10	20.67	26.7	10.2	MF-RX300/72-0-ND◆	.69	.64	.58	.46	.36	MF-RX300/72-0
			3.75	7.50	0.03	0.05	0.08	23.51	29.6	10.2	MF-RX375/72-0-ND◆	.72	.66	.60	.48	.38	MF-RX375/72-0
3C	16	100	13.0	24.0	0.0041	—	0.010	23.5	28.7	10.2	MF-RHT1300-0-ND◆	.90	.83	.75	.60	.45	MF-RHT1300-0
4	16	40	0.7	1.4	0.3	—	0.8	6.86	10.8	5.1	MF-RHT070-0-ND◆	.63	.58	.53	.42	.33	MF-RHT070-0
		100	2.0	3.8	0.045	—	0.110	9.4	14.0	5.1	MF-RHT200-0-ND◆	.69	.64	.58	.46	.36	MF-RHT200-0

◆ *RoHS Compliant*

Fig.	Max. Volt.	I Max. (Amps)	Rated Current @ 23°C (Amps) Hold	Trip	Initial Resistance @ 23°C (Ω) RMinimum	Post-Trip Resistance	Dimensions – mm A (Max.)	B (Max.)	C (Max.)	D (Min.)	E (Max.)	F (Min.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Qty.	Pricing	Bourns Part No.
5	6.0	100	1.25	2.50	0.035	0.14	4.73	3.41	0.48	0.30	—	—	MF-MSMD125CT-ND	.56	.48	.44	—	—	MF-MSMD125-2
6A	60	40	0.30	0.60	0.90	4.80	7.98	3.28	5.44	0.56	0.71	2.16	MF-SM030CT-ND◆	.62	.54	.50	2,000	299.25/M	MF-SM030-2
	60	40	0.50	1.00	0.35	1.40	7.98	3.28	5.44	0.56	0.71	2.16	MF-SM050CT-ND◆	.62	.54	.50	2,000	299.25/M	MF-SM050-2
	30	80	0.75	1.50	0.23	1.00	7.98	3.28	5.44	0.56	0.71	2.16	MF-SM075CT-ND◆	.62	.54	.50	2,000	299.25/M	MF-SM075-2
	30	80	1.10	2.20	0.12	0.48	7.98	3.18	5.44	0.56	0.71	2.16	MF-SM100CT-ND◆	.62	.54	.50	2,000	299.25/M	MF-SM100-2
	33	40	1.10	2.20	0.12	0.41	7.98	3.18	5.44	0.56	0.71	2.16	MF-SM100/33-2CT-ND◆	.70	.60	.55	2,000	400.00/M	MF-SM100/33-2
	15	100	1.25	2.50	0.07	0.25	7.98	3.18	5.44	0.56	0.71	2.16	MF-SM125CT-ND◆	.63	.54	.50	2,000	354.00/M	MF-SM125-2
	6	100	2.60	5.20	0.025	0.075	7.98	3.18	5.44	0.56	0.71	2.16	MF-SM260CT-ND◆	.63	.54	.50	2,000	360.00/M	MF-SM260-2
	6	100	3.00	6.00	0.015	0.048	7.98	3.18	5.44	0.56	0.71	2.16	MF-SM300-2CT-ND◆	.63	.54	.50	2,000	360.00/M	MF-SM300-2
6B	33	40	1.50	3.00	0.06	0.23	9.50	3.18	6.71	0.56	0.71	3.68	MF-SM150/33-2CT-ND◆	.65	.56	.53	1,500	312.56/M	MF-SM150/33-2
	15	100	1.50	3.00	0.06	0.25	9.50	3.18	6.71	0.56	0.71	3.68	MF-SM150CT-ND◆	.63	.54	.50	1,500	360.00/M	MF-SM150-2
	15	100	2.00	4.00	0.045	0.125	9.50	3.18	6.71	0.56	0.71	3.68	MF-SM200CT-ND◆	.67	.57	.53	1,500	380.00/M	MF-SM200-2
	15	100	2.50	5.00	0.024	0.085	9.50	3.18	6.71	0.56	0.71	3.68	MF-SM250CT-ND◆	.67	.58	.54	1,500	321.10/M	MF-SM250-2
7	60	250	0.13	—	6.5	20.0	9.4	3.7	7.4	0.3	3.8	—	MF-SM013/250-2CT-ND◆	.98	.84	.77	1,500	560.00/M	MF-SM013/250-2
8A	24.0	10	0.20	0.46	0.60	2.60	3.40	1.80	0.85	0.25	—	—	MF-NSMF020-2CT-ND◆	.70	.60	.55	3,000	400.00/M	MF-NSMF020-2
	6.0	100	0.35	0.75	0.30	1.20	3.40	1.80	0.85	0.25	—	—	MF-NSMF035-2CT-ND◆	.70	.60	.55	3,000	400.00/M	MF-NSMF035-2
	13.2	100	0.50	1.00	0.15	0.70	3.40	1.80	0.85	0.25	—	—	MF-NSMF050-2CT-ND◆	.46	.39	.37	3,000	219.45/M	MF-NSMF050-2
	6.0	100	0.75	1.50	0.10	0.40	3.40	1.80	0.70	0.25	—	—	MF-NSMF075-2CT-ND◆	.70	.60	.55	3,000	400.00/M	MF-NSMF075-2
	6.0	100	1.10	2.20	0.06	0.20	3.40	1.80	0.70	0.25	—	—	MF-NSMF110-2CT-ND◆	.47	.40	.38	3,000	223.25/M	MF-NSMF110-2
	6.0	100	1.50	3.00	0.03	0.13	3.40	1.80	0.70	0.25	—	—	MF-NSMF150-2CT-ND◆	.47	.40	.38	3,000	223.25/M	MF-NSMF150-2
	6.0	100	2.00	4.00	0.02	0.085	3.50	1.80	1.60	0.25	—	—	MF-NSMF200-2CT-ND◆	.88	.75	.69	3,000	500.00/M	MF-NSMF200-2
8B	60.0	40	0.10	0.30	0.70	15.00	4.73	3.41	1.10	0.30	—	—	MF-MSMF010-2CT-ND◆	.48	.41	.39	1,500	230.85/M	MF-MSMF010-2
	60.0	40	0.14	0.34	0.40	6.50	4.73	3.41	1.10	0.30	—	—	MF-MSMF014-2CT-ND◆	.48	.41	.39	1,500	228.00/M	MF-MSMF014-2
	30.0	80	0.20	0.40	0.40	6.00	4.73	3.41	1.10	0.30	—	—	MF-MSMF020-2CT-ND◆	.46	.40	.37	1,500	221.36/M	MF-MSMF020-2
	30.0	10	0.30	0.60	0.30	3.00	4.73	3.41	1.10	0.30	—	—	MF-MSMF030-2CT-ND◆	.56	.48	.44	1,500	320.00/M	MF-MSMF030-2
	15.0	100	0.50	1.00	0.15	1.00	4.73	3.41	0.85	0.30	—	—	MF-MSMF050-2CT-ND◆	.46	.40	.37	2,000	221.35/M	MF-MSMF050-2
	13.2	100	0.75	1.50	0.11	0.45	4.73	3.41	0.85	0.30	—	—	MF-MSMF075-2CT-ND◆	.48	.41	.39	2,000	228.00/M	MF-MSMF075-2
	24.0	40	0.75	1.50	0.11	0.45	4.73	3.41	0.85	0.30	—	—	MF-MSMF075/24-2CT-ND◆	.63	.54	.50	2,000	360.00/M	MF-MSMF075/24-2

◆ *RoHS Compliant* ‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	Max. Volt. (V)	I Max. (Amps)	Rated Current @ 23°C (Amps) Hold	Rated Current @ 23°C (Amps) Trip	Initial Resistance @ 23°C (Ω) RMinimum	Post-Trip Resistance	Dimensions – mm A (Max.)	B (Max.)	C (Max.)	D (Min.)	E (Max.)	F (Min.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Qty.	Tape & Reel‡ Pricing	Bourns Part No.
8B	6.0	100	1.10	2.20	0.04	0.21	4.73	3.41	0.75	0.30	—	—	MF-MSMF110-2CT-ND◆	.39	.34	.31	2,000	185.25/M	MF-MSMF110-2
	16.0	100	1.10	2.20	0.04	0.21	4.73	3.41	0.75	0.30	—	—	MF-MSMF110/16-2CT-ND◆	.63	.54	.50	2,000	360.00/M	MF-MSMF110/16-2
	6.0	100	1.25	2.50	0.035	0.14	4.73	3.41	0.85	0.30	—	—	MF-MSMF125-2CT-ND◆	.56	.48	.44	2,000	320.00/M	MF-MSMF125-2
	6.0	100	1.50	3.00	0.03	0.120	4.73	3.41	0.85	0.30	—	—	MF-MSMF150-2CT-ND◆	.48	.41	.39	2,000	228.00/M	MF-MSMF150-2
	8.0	100	1.60	2.80	0.035	0.099	4.73	3.41	0.85	0.30	—	—	MF-MSMF160-2CT-ND◆	.56	.48	.44	2,000	320.00/M	MF-MSMF160-2
	6.0	100	2.00	4.00	0.020	0.100	4.73	3.41	0.85	0.30	—	—	MF-MSMF200-2CT-ND◆	.52	.45	.42	2,000	251.75/M	MF-MSMF200-2
	16.0	100	2.50	5.00	0.015	0.100	4.73	3.41	2.00	0.30	—	—	MF-MSMF250/16-2CT-ND◆	.91	.78	.72	1,000	520.00	MF-MSMF250/16-2
8C	60	10	0.55	1.20	0.200	0.950	5.44	4.93	1.09	0.30	—	—	MF-SMDF050-2CT-ND◆	.70	.61	.57	3,000	337.25/M	MF-SMDF050-2
	15	40	1.50	3.00	0.070	0.175	5.44	4.93	1.09	0.30	—	—	MF-SMDF150-2CT-ND◆	.63	.54	.50	3,000	360.00/M	MF-SMDF150-2
8D	30	10	0.05	0.15	2.800	50.000	3.43	2.80	1.1	0.30	—	—	MF-USMF005-2CT-ND◆	.68	.63	.59	3,000	360.00/M	MF-USMF005-2
	30	10	0.10	0.30	0.800	15.000	3.43	2.80	1.1	0.30	—	—	MF-USMF010-2CT-ND◆	.48	.41	.39	3,000	230.85/M	MF-USMF010-2
	30	10	0.20	0.40	0.400	5.000	3.43	2.80	1.1	0.30	—	—	MF-USMF020-2CT-ND◆	.68	.63	.59	3,000	360.00/M	MF-USMF020-2
	6	40	0.35	0.75	0.200	1.300	3.43	2.80	0.85	0.30	—	—	MF-USMF035-2CT-ND◆	.68	.63	.59	3,000	360.00/M	MF-USMF035-2
	13.2	40	0.50	1.00	0.180	0.900	3.43	2.80	0.85	0.30	—	—	MF-USMF050-2CT-ND◆	.67	.63	.59	3,000	360.00/M	MF-USMF050-2
	6	40	0.75	1.50	0.070	0.450	3.43	2.80	0.85	0.30	—	—	MF-USMF075-2CT-ND◆	.75	.68	.66	3,000	360.00/M	MF-USMF075-2
	6	40	1.10	2.20	0.050	0.210	3.43	2.80	0.85	0.30	—	—	MF-USMF110-2CT-ND◆	.79	.68	.66	3,000	360.00/M	MF-USMF110-2
	6	40	1.50	3.00	0.030	0.110	3.43	2.80	0.85	0.30	—	—	MF-USMF150-2CT-ND◆	.79	.68	.66	3,000	360.00/M	MF-USMF150-2

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change CT-ND to TR-ND.

PTC Resettable Fuses
MF-PSMF Series – 0805 Footprint

Features: • Compact design saves board space - 0805 footprint • Small size allows fast reaction to fault events • Low profile **Applications:** • USB port protection – On the Go and 2.0 • PC motherboards – Plug and Play protection • Mobile phones – Battery and port protection • PDAs/digital cameras • Game console port protection

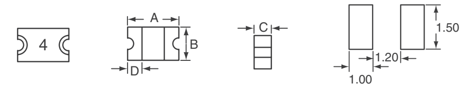

Model	Dimensions – Inches (mm) A Min.	A Max.	B Min.	B Max.	C Min.	C Max.	D Min.
MF-PSMF035X	0.079 (2.00)	0.091 (2.30)	0.047 (1.20)	0.059 (1.50)	0.019 (0.48)	0.033 (0.85)	0.008 (0.20)
MF-PSMF050X	0.079 (2.00)	0.091 (2.30)	0.047 (1.20)	0.059 (1.50)	0.019 (0.48)	0.033 (0.85)	0.008 (0.20)
MF-PSMF075X	0.079 (2.00)	0.091 (2.30)	0.047 (1.20)	0.059 (1.50)	0.030 (0.75)	0.049 (1.25)	0.008 (0.20)
MF-PSMF110X	0.079 (2.00)	0.091 (2.30)	0.047 (1.20)	0.059 (1.50)	0.030 (0.75)	0.049 (1.25)	0.008 (0.20)

Max. Volt. (V)	I Max. (Amps)	Ihold A @ 23°C Hold	Itrip A @ 23°C Trip	Resistance Ω @ 23°C RMin.	Resistance Ω @ 23°C R1Max.	Max. Time to Trip Amps @ 23°C	Max. Time to Trip Seconds @ 23°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing	Bourns Part No.
6	40	0.35	0.75	0.250	1.200	8.00	0.10	MF-PSMF035X-2CT-ND	.88	.75	.74	MF-PSMF035X-2TR-ND	3,000	400.00/M	MF-PSMF035X-2
6	40	0.50	1.00	0.150	0.900	8.00	0.10	MF-PSMF050X-2CT-ND	.88	.75	.74	MF-PSMF050X-2TR-ND	3,000	400.00/M	MF-PSMF050X-2
6	40	0.75	1.50	0.090	0.350	8.00	0.20	MF-PSMF075X-2CT-ND	.88	.75	.74	MF-PSMF075X-2TR-ND	3,000	400.00/M	MF-PSMF075X-2
6	40	1.10	2.20	0.060	0.210	8.00	0.30	MF-PSMF110X-2CT-ND	.88	.75	.74	MF-PSMF110X-2TR-ND	3,000	400.00/M	MF-PSMF110X-2

Telecom CPTC Resettable Fuses
CMF-RL and CMF-SD Series

Features:
- Two resistance-matched PTCs in a ceramic housing
- Aids compliance with:
  ITU-T K.20/21/45; Telcordia GR-1089-CORE; UL 60950, 3rd Ed.
- Narrow resistance tolerance

Applications: Used as a secondary overcurrent protection device in:
- Customer Premise Equipment (CPE)
- Central Office (CO)
- Access equipment

Model	Dimensions – Inches (mm) A Max.	B Max.	C Max.	D Nominal	E Nominal	F Nominal
CMF-RL35	0.386 (9.8)	0.197 (5.0)	0.531 (13.5)	0.118 - 0.138 (3.0 - 3.5)	0.024 ± 0.019 (0.6 ± 0.05)	0.200 ± 0.012 (5.08 ± 0.3)
CMF-RL50A	0.295 (7.5)	0.220 (5.6)	0.512 (13.0)	0.138 (3.5) – Minimum	0.024 ± 0.019 (0.6 ± 0.05)	0.197 ± 0.008 (5.0 ± 0.2)
CMF-RL55A	0.295 (7.5)	0.220 (5.6)	0.512 (13.0)	0.138 (3.5)	0.024 ± 0.019 (0.6 ± 0.05)	0.197 ± 0.008 (5.0 ± 0.2)

Model	Dimensions – Inches (mm) A Max.	B Max.	C Max.	D Nominal	E Nominal	F Max.
CMF-SD25	0.354 (9.00)	0.425 (10.80)	0.402 (10.20)	0.192 - 0.208 (4.88 - 5.28)	0.095 - 0.103 (2.41 - 2.61)	0.020 (0.5)
CMF-SD35A	0.281 (7.15)	0.335 (8.50)	0.319 (8.10)	0.128 - 0.144 (3.25 - 3.65)	0.095 - 0.103 (2.41 - 2.61)	0.020 (0.5)
CMF-SD50A-10	0.281 (7.15)	0.335 (8.50)	0.319 (8.10)	0.128 - 0.144 (3.25 - 3.65)	0.095 - 0.103 (2.41 - 2.61)	0.020 (0.5)

Fig. 1 – CMF-RL Series

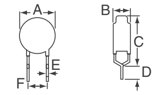

Fig. 2 – CMF-SD Series

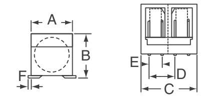

Fig.	Rated Voltage (V)	Rated Resistance Ω	Rated Resistance Tolerance	Hold Current A @ 25°C	Trip Current A @ 25°C	Time to Trip @ Imax/ 230 VAC	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing	Bourns Part No.
1	230	35	±20%	0.075	0.150	≤0.15 Sec.	CMF-RL35-0-ND	.57	.53	.48	—	—	—	CMF-RL35-0
		50	±20%	0.050	0.100	≤0.1 Sec.	CMF-RL50A-0-ND	.63	.58	.53	—	—	—	CMF-RL50A-0
		55	±20%	0.050	0.100	≤0.1 Sec.	CMF-RL55A-0-ND	.63	.58	.53	—	—	—	CMF-RL55A-0
2	230	25	±20%	0.130	0.260	<0.3 Sec.	CMF-SD25-2CT-ND†	1.32	1.17	1.14	CMF-SD25-2TR-ND	400	202.00	CMF-SD25-2
		35	±20%	0.100	0.200	<0.2 Sec.	CMF-SD35A-2CT-ND†	1.32	1.17	1.14	CMF-SD35A-2TR-ND	500	248.00	CMF-SD35A-2
		50	±10%	0.090	0.190	<0.1 Sec.	CMF-SD50A-10-2CT-ND†	1.45	1.28	1.25	CMF-SD50A-10-2TR-ND	500	272.00	CMF-SD50A-10-2

† Cut Tape

NEW! ESD Protection
ESD Suppressors
MLC and MLU Series

The ChipGuard® MLU and MLC Series has been specifically designed to protect sensitive electronic components from electrostatic discharge damage. The MLU and MLC family has been designed to protect equipment to IEC61000-4-2, Level 4(±8kV Contact/ ±15kV Air Discharge) ESD specifications targeted for high speed USB 2.0, HDMI, DVI or IEEE1394 applications. The ChipGuard MLU and MLC Series has been manufactured to provide low 0.05pF and 0.5pF capacitance and leakage currents less than 5nA with excellent clamp qualities, making the family almost transparent under normal working conditions.

Specifications: • Typical Clamping Voltage: 25 • Maximum Leakage Current @ Maximum VDC: 5 • Typical Trigger Voltage: 250 • Maximum Response Time: 1nS

Package	Dimensions – mm L	W	A	B
0402	1.00	0.50	0.50	0.25
0603	1.60	0.80	0.50	0.30

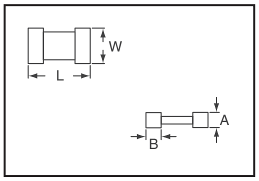

Pkg.	Typ. Cont. Working VDC	Max. Cap. @ 1VRMS 1MHz	Operating Temp. (°C)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing	Bourns Part No.
				MLC Series							
0402	3.3	0.5	-40 ~ 85	CG0402MLC-3.3LGCT-ND	.25	1.56	11.70	CG0402MLC-3.3LGTR-ND	10,000	94.00/M	CG0402MLC-3.3LG
0603	3.3			CG0603MLC-3.3LECT-ND	.23	1.44	10.80	CG0603MLC-3.3LETR-ND	5,000	90.00/M	CG0603MLC-3.3LE
0402	5			CG0402MLC-05LGCT-ND	.25	1.56	11.70	CG0402MLC-05LGTR-ND	10,000	94.00/M	CG0402MLC-05LG
0603	5			CG0603MLC-05LECT-ND	.23	1.44	10.80	CG0603MLC-05LETR-ND	5,000	90.00/M	CG0603MLC-05LE
0402	12			CG0402MLC-12LGCT-ND	.25	1.56	11.70	CG0402MLC-12LGTR-ND	10,000	94.00/M	CG0402MLC-12LG
0603	12			CG0603MLC-12LECT-ND	.23	1.44	10.80	CG0603MLC-12LETR-ND	5,000	90.00/M	CG0603MLC-12LE
				MLU Series							
0402	3.3	0.05	-40 ~ 125	CG0402MLU-3.3GCT-ND	.38	2.40	18.00	CG0402MLU-3.3GTR-ND	10,000	145.00/M	CG0402MLU-3.3G
0603	3.3			CG0603MLU-3.3ECT-ND	.34	2.16	16.20	CG0603MLU-3.3ETR-ND	5,000	135.00/M	CG0603MLU-3.3E
0402	5			CG0402MLU-05GCT-ND	.38	2.40	18.00	CG0402MLU-05GTR-ND	10,000	145.00/M	CG0402MLU-05G
0603	5			CG0603MLU-05ECT-ND	.34	2.16	16.20	CG0603MLU-05ETR-ND	5,000	135.00/M	CG0603MLU-05E
0402	12			CG0402MLU-12GCT-ND	.38	2.40	18.00	CG0402MLU-12GTR-ND	10,000	145.00/M	CG0402MLU-12G
0603	12			CG0603MLU-12ECT-ND	.34	2.16	16.20	CG0603MLU-12ETR-ND	5,000	135.00/M	CG0603MLU-12E
0402	24			CG0402MLU-24GCT-ND	.38	2.40	18.00	CG0402MLU-24GTR-ND	10,000	145.00/M	CG0402MLU-24G
0603	24			CG0603MLU-24ECT-ND	.34	2.16	16.20	CG0603MLU-24ETR-ND	5,000	135.00/M	CG0603MLU-24E

bel
COMPONENTS FOR A CONNECTED PLANET

PTC Resettable Circuit Protection

Physical Specifications: • Lead Material: Tin Plated Copper • Insulating Coating (radial leaded product only): Flame retardant yellow epoxy, meets UL-94-V-0

Agency Approval: UL Recognized (E305051). See datasheet for select TUV approval.

Temperature Range: -40°C ~ 85°C

RoHS COMPLIANT Pb
TÜV Rheinland
c UL us

Parameter Definitions (Electrical characteristics tested at 23°C)	
I_H	Hold current-maximum current at which the device will not trip in still air
I_T	Trip current-maximum current at which the device will always trip in still air
Imax	Maximum fault current device can withstand without damage at rated voltage (Vmax)
Vmax	Maximum voltage device can withstand without damage at its rated current
Rmin	Minimum device resistance
Rmax	Maximum device resistance
R1max	Maximum device resistance, 1 hour after initial device trip

Fig. 1

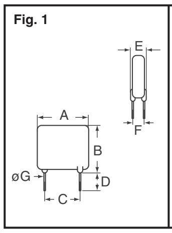

Fig. 2

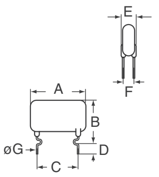

Fig. 3

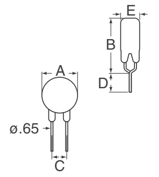

Fig. 4

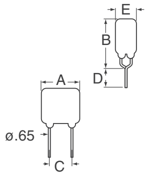

Fig. 5

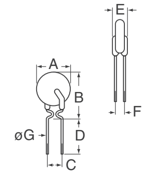

Fig. 6

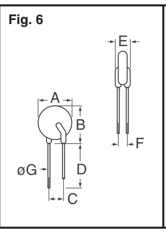

Fig. 7

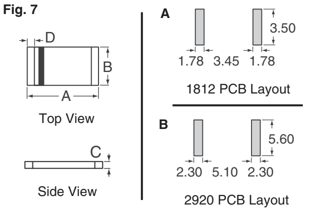

Fig.	Rated Voltage (VDCmax)	Rated Current (23°C)		Max. Current (Imax)	Resistance Tolerance			Dimensions - mm							Digi-Key Part No.	Pricing				Bel Fuse Part No.
		Hold (I_H)	Trip (I_T)		Rmin (Ω)	Rmax (Ω)	R1max (Ω)	A Max.	B Max.	C Typ.	D Min.	E Max.	F Typ.	G Lead Size		1	10	100	500	
0ZRA Series Radial Leaded																				
1	16	3	5.1	100	0.034	0.0530	0.105	7.1	11.0	5.1	7.6	3.0	1.2	0.81	507-1304-ND	.58	4.16	32.00	112.00	0ZRA0300FF1C
	16	4	6.8	100	0.020	0.0350	0.063	8.9	12.8	5.1	7.6	3.0	1.2	0.81	507-1305-ND	.62	4.49	34.50	120.75	0ZRA0400FF1E
	16	5	8.5	100	0.014	0.0210	0.044	10.4	14.3	5.1	7.6	3.0	1.2	0.81	507-1306-ND	.71	5.14	39.50	138.25	0ZRA0500FF1E
	16	6	10.2	100	0.009	0.0160	0.033	10.7	17.1	5.1	7.6	3.0	1.2	0.81	507-1307-ND	.76	5.46	42.00	147.00	0ZRA0600FF1E
	16	7	11.9	100	0.006	0.0130	0.021	11.2	19.7	5.1	7.6	3.0	1.2	0.81	507-1308-ND	.80	5.79	44.50	155.75	0ZRA0700FF1A
	16	8	13.6	100	0.005	0.0110	0.018	12.7	20.9	5.1	7.6	3.0	1.2	0.81	507-1309-ND	.90	6.47	49.75	174.13	0ZRA0800FF1A
	16	9	15.3	100	0.004	0.0085	0.015	14.0	21.7	5.1	7.6	3.0	1.2	0.81	507-1310-ND	.94	6.79	52.25	182.88	0ZRA0900FF1A
	16	10	17.0	100	0.003	0.0075	0.012	16.5	24.1	5.1	7.6	3.0	1.2	0.81	507-1311-ND	1.03	7.44	57.25	200.38	0ZRA1000FF1A
	16	11	18.7	100	0.003	0.0065	0.010	17.5	26.0	5.1	7.6	3.0	1.2	0.81	507-1312-ND	1.14	8.26	63.50	222.25	0ZRA1100FF1A
	16	12	20.4	100	0.002	0.0055	0.009	17.5	28.0	10.2	7.6	3.6	1.4	1.00	507-1313-ND	1.23	8.91	68.50	239.75	0ZRA1200FF1A
	16	14	23.8	100	0.002	0.0045	0.008	27.9	27.9	10.2	7.6	3.6	1.4	1.00	507-1314-ND	1.37	9.88	76.00	266.00	0ZRA1400FF1A
0ZRB Series Radial Leaded																				
2	30	0.90	1.8	40	0.07	0.160	0.22	7.4	12.2	5.1	7.6	3	0.9	0.51	507-1315-ND	.45	3.28	25.25	88.38	0ZRB0090FF1C
	30	1.10	2.2	40	0.05	0.140	0.17	7.4	14.2	5.1	7.6	3	0.9	0.51	507-1316-ND	.48	3.48	26.75	93.63	0ZRB0110FF1C
	30	1.35	2.7	40	0.04	0.095	0.13	8.9	13.5	5.1	7.6	3	0.9	0.51	507-1317-ND	.51	3.71	28.50	99.75	0ZRB0135FF1E
	30	1.60	3.2	40	0.03	0.080	0.11	8.9	15.2	5.1	7.6	3	0.9	0.51	507-1318-ND	.53	3.80	29.25	102.38	0ZRB0160FF1E
	30	1.85	3.7	40	0.03	0.070	0.09	10.2	15.7	5.1	7.6	3	0.9	0.51	507-1319-ND	.55	3.97	30.50	106.75	0ZRB0185FF1E
	30	2.50	5.0	40	0.02	0.050	0.07	11.4	18.3	5.1	7.6	3	0.9	0.51	507-1320-ND	.62	4.49	34.50	120.75	0ZRB0250FF1E
1	30	3.00	6.0	40	0.02	0.050	0.08	11.4	17.3	5.1	7.6	3	1.2	0.81	507-1321-ND	.64	4.62	35.50	124.25	0ZRB0300FF1A
	30	4.00	8.0	40	0.01	0.035	0.05	14.0	20.1	5.1	7.6	3	1.2	0.81	507-1322-ND	.73	5.27	40.50	141.75	0ZRB0400FF1A
	30	5.00	10.0	40	0.01	0.022	0.05	14.0	24.9	10.2	7.6	3	1.2	0.81	507-1323-ND	.91	6.60	50.75	177.63	0ZRB0500FF1A
	30	6.00	12.0	40	0.005	0.018	0.04	16.5	24.9	10.2	7.6	3	1.2	0.81	507-1324-ND	.94	6.79	52.25	182.88	0ZRB0600FF1A
	30	7.00	14.0	40	0.005	0.015	0.03	19.1	26.7	10.2	7.6	3	1.2	0.81	507-1325-ND	1.03	7.44	57.25	200.38	0ZRB0700FF1A
	30	8.00	16.0	40	0.005	0.012	0.02	21.6	29.2	10.2	7.6	3	1.2	0.81	507-1326-ND	1.14	8.26	63.50	222.25	0ZRB0800FF1A
	30	9.00	18.0	40	0.005	0.011	0.02	24.1	29.7	10.2	7.6	3	1.2	0.81	507-1327-ND	1.37	9.88	76.00	266.00	0ZRB0900FF1A
0ZRF Series Telecom Radial																				
3	60	0.08	0.16	3	14.0	22.00	33	5.8	9.6	5	4.7	4.6	—	—	507-1356-ND	.46	3.35	25.75	90.13	0ZRF0008FF1E
	60	0.11	0.22	3	5.0	11.00	16	6.8	9.9	5	4.7	4.6	—	—	507-1357-ND	.46	3.35	25.75	90.13	0ZRF0011FF1E
4	60	0.12	0.24	3	4.0	12.00	16	6.5	11.0	5	4.7	4.6	—	—	507-1358-ND	.46	3.35	25.75	90.13	0ZRF0012FF1E
	60	0.15	0.29	3	3.0	7.50	12	6.5	11.0	5	4.7	4.6	—	—	507-1359-ND	.46	3.35	25.75	90.13	0ZRF0015FF1E
	60	0.18	0.65	10	0.8	2.20	4	10.9	12.6	5	4.7	4.6	—	—	507-1360-ND	.52	3.77	29.00	101.50	0ZRF0018FF1A
0ZRC Series Rated Radial																				
5	90	0.10	0.20	40	2.50	6.000	7.50	7.4	12.7	5.1	7.6	3.1	1.1	0.51	507-1328-ND	.41	2.96	22.75	79.63	0ZRC0010FF1E
	90	0.15	0.35	40	2.40	5.500	7.00	7.4	12.7	5.1	7.6	3.1	1.1	0.51	507-1329-ND	.41	2.96	22.75	79.63	0ZRC0015FF1E
	90	0.17	0.34	40	2.00	3.720	8.00	7.4	12.7	5.1	7.6	3.1	1.1	0.51	507-1330-ND	.41	2.96	22.75	79.63	0ZRC0017FF1E
	90	0.20	0.40	40	1.83	3.300	4.40	7.4	12.7	5.1	7.6	3.1	1.1	0.51	507-1331-ND	.41	2.96	22.75	79.63	0ZRC0020FF1E
	90	0.25	0.50	40	1.25	2.280	3.00	7.4	12.7	5.1	7.6	3.1	1.1	0.51	507-1332-ND	.41	2.96	22.75	79.63	0ZRC0025FF1E
	90	0.30	0.60	40	0.88	1.596	2.10	7.4	13.0	5.1	7.6	3.1	1.1	0.51	507-1333-ND	.44	3.15	24.25	84.88	0ZRC0030FF1E
	90	0.35	0.75	40	0.70	1.300	2.50	7.4	12.7	5.1	7.6	3.1	1.1	0.51	507-1334-ND	.44	3.15	24.25	84.88	0ZRC0035FF1E
	90	0.40	0.80	40	0.55	1.032	1.29	7.6	13.5	5.1	7.6	3.1	1.1	0.51	507-1335-ND	.44	3.15	24.25	84.88	0ZRC0040FF1E
	90	0.50	1.00	40	0.50	0.770	1.17	7.9	13.7	5.1	7.6	3.1	1.1	0.51	507-1336-ND	.46	3.32	25.50	89.25	0ZRC0050FF1E
	90	0.55	1.20	40	0.40	0.720	1.50	9.7	14.0	5.1	7.6	3.1	1.1	0.51	507-1337-ND	.46	3.32	25.50	89.25	0ZRC0055FF1E
	90	0.65	1.30	40	0.31	0.520	0.72	9.7	14.5	5.1	7.6	3.1	1.1	0.51	507-1338-ND	.48	3.48	26.75	93.63	0ZRC0065FF1E
	90	0.75	1.50	40	0.25	0.400	0.60	10.4	15.2	5.1	7.6	3.1	1.1	0.51	507-1339-ND	.50	3.64	28.00	98.00	0ZRC0075FF1E
	90	0.90	1.80	40	0.20	0.330	0.47	11.7	15.8	5.1	7.6	3.1	1.1	0.51	507-1340-ND	.50	3.64	28.00	98.00	0ZRC0090FF1E
6	90	1.10	2.20	40	0.15	0.300	0.38	13.0	18.0	5.1	7.6	3.1	1.4	0.81	507-1341-ND	.55	3.97	30.50	106.75	0ZRC0110FF1A
	90	1.35	2.70	40	0.12	0.228	0.30	14.5	19.6	5.1	7.6	3.1	1.4	0.81	507-1342-ND	.59	4.29	33.00	115.50	0ZRC0135FF1A
	90	1.60	3.20	40	0.09	0.180	0.22	16.3	21.3	5.1	7.6	3.1	1.4	0.81	507-1343-ND	.68	4.94	38.00	133.00	0ZRC0160FF1A
	90	1.85	3.70	40	0.08	0.144	0.19	17.8	22.9	5.1	7.6	3.1	1.4	0.81	507-1344-ND	.76	5.46	42.00	147.00	0ZRC0185FF1A
	90	2.50	5.00	40	0.05	0.096	0.13	21.3	26.4	10.2	7.6	3.1	1.4	0.81	507-1345-ND	.89	6.44	49.50	173.25	0ZRC0250FF1A
	90	3.00	6.00	40	0.04	0.072	0.10	24.9	30.0	10.2	7.6	3.1	1.4	0.81	507-1346-ND	.96	6.92	53.25	186.38	0ZRC0300FF1A
	90	3.75	7.50	40	0.03	0.060	0.08	28.5	33.5	10.2	7.6	3.1	1.4	0.81	507-1347-ND	1.05	7.57	58.25	203.88	0ZRC0375FF1A
0ZRE Series Line Voltage Radial ‡																				
6	240	0.05	0.12	1.0	18.50	31.00	65.00	8.3	10.7	5.1	7.6	3.8	1.4	0.51	507-1348-ND	.50	3.64	28.00	98.00	0ZRE0005FF1C
	240	0.08	0.19	1.2	7.40	12.00	26.00	8.3	10.7	5.1	7.6	3.8	1.4	0.51	507-1349-ND	.50	3.64	28.00	98.00	0ZRE0008FF1C
	240	0.12	0.30	1.2	3.00	6.50	12.00	8.3	10.7	5.1	7.6	3.8	1.4	0.51	507-1350-ND	.50	3.64	28.00	98.00	0ZRE0012FF1C
	240	0.16	0.37	2.0	2.50	4.10	7.80	9.9	12.5	5.1	7.6	3.8	1.4	0.51	507-1351-ND	.55	3.97	30.50	106.75	0ZRE0016FF1C
1	240	0.25	0.56	3.5	1.30	2.10	3.80	9.6	17.4	5.1	7.6	3.8	1.4	0.65	507-1352-ND	.62	4.45	34.25	119.88	0ZRE0025FF1E
	240	0.33	0.74	4.5	0.83	1.24	2.60	11.4	16.5	5.1	7.6	3.8	1.4	0.65	507-1353-ND	.68	4.94	38.00	133.00	0ZRE0033FF1A
	240	0.40	0.90	5.5	0.60	0.97	1.90	11.5	19.5	5.1	7.6	3.8	1.4	0.65	507-1354-ND	.80	5.79	44.50	155.75	0ZRE0040FF1A
	240	0.55	1.25	7.0	0.45	0.73	1.45	14.0	21.7	5.1	7.6	4.1	1.4	0.81	507-1355-ND	.90	6.53	50.25	175.88	0ZRE0055FF1A

‡ 0ZRE Series rated output voltage can be used in AC/DC applications

Fig.	Rated Voltage (Vmax)	Rated Current (23°C)		Maximum Current (Imax)	Resistance Tolerance			Dimensions - mm				Digi-Key Part No.	Pricing			Tape & Reel† Pricing	Bel Fuse Part No.
		Hold (I_H)	Trip (I_T)		Rmin (Ω)	Rmax (Ω)	R1max (Ω)	A Maximum	B Maximum	C Maximum	D Minimum		1	10	100	2,000	
0ZCC Series Surface Mount (1812 Chip)																	
7A	16	0.50	1.0	40	0.15	0.57	1.00	4.73	3.41	0.65	0.3	507-1361-1-ND	.59	5.28	37.40	154.00/M	0ZCC0050FF2C
	16	0.75	1.5	40	0.11	0.27	0.45	4.73	3.41	0.65	0.3	507-1362-1-ND	.59	5.28	37.40	154.00/M	0ZCC0075FF2C
	6	1.10	2.2	40	0.04	0.11	0.21	4.73	3.41	0.55	0.3	507-1363-1-ND	.59	5.28	37.40	154.00/M	0ZCC0110FF2C
0ZCD Series Surface Mount (2920 Chip)																	
7B	60	0.30	0.6	10	1.000	2.000	4.800	7.98	5.44	1.15	0.35	507-1364-1-ND	.89	7.92	56.10	231.00/M	0ZCD0030FF2C
	60	0.50	1.0	10	0.300	0.700	1.400	7.98	5.44	1.15	0.35	507-1365-1-ND	.89	7.92	56.10	231.00/M	0ZCD0050FF2C
	33	0.75	1.5	40	0.180	0.310	1.000	7.98	5.44	1.15	0.35	507-1366-1-ND	.89	7.92	56.10	231.00/M	0ZCD0075FF2C
	33	1.10	2.2	40	0.090	0.170	0.410	7.98	5.44	1.0	0.35	507-1367-1-ND	.89	7.92	56.10	231.00/M	0ZCD0110FF2C
	33	1.25	2.5	40	0.050	0.131	0.250	7.98	5.44	0.9	0.35	507-1368-1-ND	.89	7.92	56.10	231.00/M	0ZCD0125FF2C
	33	1.50	3.0	40	0.050	0.108	0.230	7.98	5.44	0.9	0.35	507-1369-1-ND	.89	7.92	56.10	231.00/M	0ZCD0150FF2C
	33	1.85	3.7	40	0.040	0.076	0.150	7.98	5.44	0.9	0.35	507-1370-1-ND	.89	7.92	56.10	231.00/M	0ZCD0185FF2C
	16	2.00	4.0	40	0.035	0.065	0.120	7.98	5.44	0.9	0.35	507-1371-1-ND	.89	7.92	56.10	231.00/M	0ZCD0200FF2C
	16	2.50	5.0	40	0.025	0.041	0.085	7.98	5.44	0.9	0.35	507-1372-1-ND	.89	7.92	56.10	231.00/M	0ZCD0250FF2C

† For Tape and Reel part number, change 1-ND to 2-ND

Littelfuse Expertise Applied | Answers Delivered

ESD Transient Voltage Suppression Arrays

This is an array of SCR/Diode bipolar structures for ESD and over-voltage protection.
The SCR Structures are designed for fast triggering, if a transient pulse is detected with a voltage level greater than one V_{BE}, negative or positive pulse, above V+ or below V- the device will be activated. Some of the applications where this device works very well is for Microprocessor/Logic Input Protection, Data Buss Protection, Analog Device Input Protection, or a Voltage Clamp.

Features:

- Fast Switching Times
- Low Input Leakage
- Low Input Capacitance
- Operating Temperature Range: -40°C ~ 105°C

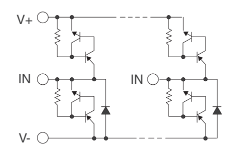

Functional Block Diagram

ESD Human Body Model (HBM) Capability for SP720 – SP721				
HBM Standard	***Mode***	***R***	***C***	***ESD(V)***
IEC 61000-4-2	*Air* *Direct* *Direct, Dual Pins*	*330Ω* *330Ω* *330Ω*	*150pF* *150pF* *150pF*	*>15kV* *>4kV* *>8kV*
MIL-STD-3015.7	*Direct, In-Circuit*	*1.5kΩ*	*100pF*	*>15kV*
EIAJ IC121	*Machine Model*	*0kΩ*	*200pF*	*>1kV*

ESD Human Body Model (HBM) Capability for SP723 – SP724				
HBM Standard	***Mode***	***RD Dischg. Resistor***	***CD Dischg. Cap.***	***±VDDischg. Voltage***
IEC 61000-4-2 (Level 4)	*HBM, Air Discharge* *HBM, Direct Discharge*	*330Ω* *330Ω*	*150pF* *150pF*	*15kV* *8kV*
MIL-STD-3015.7	*Modified HBM* *Standard HBM*	*1.5kΩ* *1.5kΩ*	*100pF* *100pF*	*8kV* *2kV*
EIAJ IC121	*Machine Model*	*0kΩ*	*200pF*	*400V*
US ESD DS 5.3 (SP724 Only)	*Charged Device Model*	*0kΩ*	*NA*	*3kV*

Package	No. of Input Arrays per Package	Operating Voltage (V Supply)	Input Leakage Current (nA) (Typical)	Quiescent Supply Current (nA)	Equivalent SCR ON Threshold (V) †	Equivalent SCR ON Resistance (Ohms) †	Input Capacitance (pF)	Input Switch Speed (nSec)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel PricingΔ 3,000	Littelfuse Part No.
16-SOIC	14	2-30	5	50	1.1	1	3	2	F2717-ND	3.43	3.17	2.38	—	SP720ABG
16-Dip	14	2-30	5	50	1.1	1	3	2	F2718-ND	3.43	3.17	2.38	—	SP720APP
8-SOIC	6	2-30	5	50	1.1	1	3	2	F2719-ND	2.40	2.22	1.67	—	SP721ABG
8-Dip	6	2-30	5	50	1.1	1	3	2	F2720-ND	2.40	2.22	1.67	—	SP721APP
8-SOIC	6	2-30	5	50	1.1	0.5	5	2	F2721-ND	3.17	2.93	2.20	—	SP723ABG
8-Dip	6	2-30	5	50	1.1	0.5	5	2	F2722-ND	3.25	3.01	2.26	—	SP723APP
SOT-23-6	4	1-20	1	100 (Max.)	1.1	1	3	—	F2863CT-ND ***NEW!***	1.90	1.75	1.48	694.59/M	SP724AHTG
SOT-23-6	4	1-20	1	100 (Max.)	1.1	1	3	—	F2708CT-ND	1.90	1.75	1.48	695.00/M	SP724AHTP

Δ For Tape and Reel part number, change CT-ND to TR-ND **†** Information given to determine peak current and dissipation under EOS conditions **NOTE:** The SP724 is covered by Littelfuse patent 4567500

TVS Avalanche Diode Array — SP050X Series

The surface mount family of arrays are designed to suppress ESD and other transient overvoltage events.
Features: • ESD Capability Standards IEC 61000-4-2, Direct Discharge: 20kV (Level 4), IEC 61000-4-2, Air Discharge: 30kV (Level 4), MIL STD 863 31015.7: 30kV • Input Protection for applications up to 5VDC • Fast Response Time: <1ns • Low Input Capacitance: 30pF Typical • Operating Temperature Range -40°C ~ 85°C

SOT23

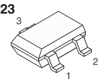

SOT143

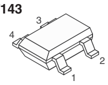

SOT23-6

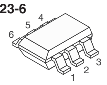

Package	No. of Input Channels	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Littelfuse Part No.
SOT23	2	F2714CT-ND	.63	.59	.50	F2714TR-ND	232.00/M	SP0502BAHTG
SOT143	3	F2715CT-ND	.76	.70	.59	F2715TR-ND	278.00/M	SP0503BAHTG
SOT23-6	5	F2716CT-ND	.97	.90	.76	F2716TR-ND	355.00/M	SP0505BAHTG

Electrical Specifications (T_A = 25°C, Unless Otherwise Specified)					
Parameter	**Test Conditions**	**Min.**	**Typ.**	**Max.**	**Units**
Reverse Standoff Voltage	I=10µA	5.5	—	—	V
Reverse Standoff Leakage Current	V= 5.0V	—	1	100	nA
Signal Clamp Voltage Positive Negative	 I=10mA I=10mA	 5.6 -1.2	 6.8 -0.8	 8 -0.4	 V V

PTC Resettable Devices Surface Mount

PTC Resettable devices utilize a unique polymer-based, Positive Temperature Coefficient (PTC) material to protect electrical circuits against overcurrent conditions.

PTC Resettable Operation: In normal operation, the Littelfuse PTC has many conductive paths and a very low resistance. In an overcurrent condition, the temperature of the polymer material rises. This dramatically reduces the conductive paths resulting in an immediate rise in resistance. In this condition the device provides circuit protection by significantly limiting the flow of current. However, once the cause of the initial overcurrent condition is eliminated, the Littelfuse PTC cools down and resets to a low resistance value permitting the normal current flow to resume.

Agency Approvals:• UL: Recognized under Components Program of Underwriters Laboratories • CSA: Recognized under Component Acceptance Program of the Canadian Standards Association • TUV approved

Electrical Definitions: • **Ihold:** Hold Current: Maximum current device will sustain for 4 hours without switching at 20°C • **Itrip:** Trip Current: Minimum current that will switch the device into a high resistance state at 20°C • **Isc:** Maximum short circuit current device can withstand at rated voltage • **Ril:** Minimum initial resistance of device at 20°C, prior to tripping • **Rat:** Maximum measured resistance in the nontripped state 1 hour post reflow with reflow conditions of 245°C for 20 seconds.

Devices are not intended to be used for continual, repeated tripping.

CAUTION: *Operation beyond the specified ratings may result in damage and possible arcing and flame.*

0805L Series

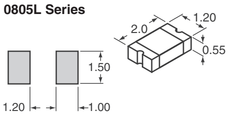

1206L Series

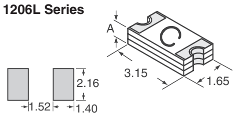

1812L Series

Series	Dim. (mm) A
1812L 050~150	0.61
1812L 200~260	1.13

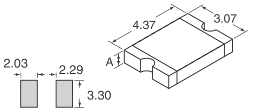

2920L Series *NEW!*

Series	Dim. (mm) A
2920L 030~075, 150~250, 300	1.25
2920L 100~125, 260	1

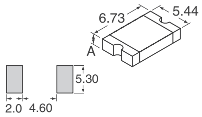

Series	I_{hold} (A)	I_{trip} (A)	Voltage Rating (V)	Isc (A)	Maximum Time to Trip Current (A)	Time (Sec)	Resistance (Ω) R_{il}	R_{at}	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Littelfuse Part No.
0805L	0.10	0.30	15.0	40	0.5	1.50	1.000	6.00	F2769CT-ND	2.58	2.37	2.00	F2769TR-ND	4,000	941.00/M	0805L010YR
	0.20	0.50	9.0	40	8.0	0.02	0.650	3.50	F2770CT-ND	2.58	2.37	2.00	F2770TR-ND	4,000	941.00/M	0805L020YR
	0.35	0.75	6.0	40	8.0	0.10	0.250	1.20	F2771CT-ND	2.58	2.37	2.00	F2771TR-ND	4,000	941.00/M	0805L035YR
	0.50	1.00	6.0	40	8.0	0.10	0.150	0.85	F2772CT-ND	2.88	2.66	2.24	F2772TR-ND	3,000	1054.00/M	0805L050WR
	0.75	1.50	6.0	40	8.0	0.20	0.090	0.35	F2773CT-ND	2.88	2.66	2.24	F2773TR-ND	3,000	1054.00/M	0805L075WR
	1.10	1.95	6.0	40	8.0	0.30	0.060	0.21	F2774CT-ND	3.19	2.94	2.47	F2774TR-ND	3,000	1166.00/M	0805L100WR
1206L	0.125	0.29	30	100	1.00	0.20	1.500	6.000	F2864CT-ND ***NEW!***	.50	.46	.39	F2864TR-ND ***NEW!***	3,000	182.00/M	1206L012WR
	0.20	0.40	15.0	40	8.0	0.05	0.600	2.50	F2109CT-ND	.50	.46	.39	F2109TR-ND	4,000	182.00/M	1206L020YR
	0.25	0.50	15.0	40	8.0	0.08	0.550	2.30	F2110CT-ND	.50	.46	.39	F2110TR-ND	4,000	182.00/M	1206L025YR
	0.35	0.70	6.0	40	8.0	0.10	0.300	1.30	F2111CT-ND	.50	.46	.39	F2111TR-ND	4,000	182.00/M	1206L035YR
	0.50	1.00	6.0	40	8.0	0.10	0.090	0.60	F2112CT-ND	.35	.32	.27	F2112TR-ND	4,000	126.00/M	1206L050YR
	0.75	1.50	6.0	40	8.0	0.20	0.070	0.30	F2113CT-ND	.65	.60	.51	F2113TR-ND	3,000	238.00/M	1206L075WR
	1.10	2.20	6.0	40	8.0	0.30	0.040	0.18	F2114CT-ND	.35	.32	.27	F2114TR-ND	3,000	126.00/M	1206L110WR
	1.50	3.00	6.0	40	8.0	0.30	0.030	0.12	F2115CT-ND	.81	.75	.63	F2115TR-ND	2,000	312.00/M	1206L150PR
1812L	0.50	1.00	15.0	40	8.0	0.15	0.100	1.000	F2150CT-ND	.42	.39	.33	F2150TR-ND	2,000	164.00/M	1812L050PR
	0.75	1.50	13.2	40	8.0	0.30	0.060	.420	F2151CT-ND	.69	.64	.54	F2151TR-ND	2,000	268.00/M	1812L075PR
	1.10	2.20	6.0	40	8.0	0.30	0.050	.226	F2152CT-ND	.46	.43	.36	F2152TR-ND	2,000	178.00/M	1812L110PR
	1.25	2.50	15.0	40	8.0	0.30	0.040	.184	F2153CT-ND	.65	.60	.51	F2153TR-ND	1,500	252.00/M	1812L125PR
	1.50	3.00	6.0	40	8.0	0.30	0.032	.137	F2154CT-ND	.50	.46	.39	F2154TR-ND	2,000	193.00/M	1812L150ZR
	2.00	4.00	8.0	40	8.0	2.50	0.018	.070	F2161CT-ND	.50	.46	.39	F2161TR-ND	1,500	193.00/M	1812L200DR
	2.60	5.20	6.0	40	8.0	2.50	0.010	.005	F2155CT-ND	1.46	1.35	1.14	F2155TR-ND	1,000	566.00	1812L260ZR
2920L	0.30	0.60	60	10	1.50	3.00	1.200	4.800	F2865CT-ND ***NEW!***	.73	.68	.57	F2865TR-ND ***NEW!***	1,500	283.00/M	2920L030DR
	0.50	1.00	60	10	2.50	4.00	0.350	1.400	F2866CT-ND ***NEW!***	.73	.68	.57	F2866TR-ND ***NEW!***	1,500	283.00/M	2920L050DR
	0.75	1.50	30	40	8.00	0.30	0.350	1.000	F2867CT-ND ***NEW!***	.73	.68	.57	F2867TR-ND ***NEW!***	1,500	283.00/M	2920L075DR
	1.10	2.20	33	40	8.00	0.50	0.120	0.410	F2868CT-ND ***NEW!***	.73	.68	.57	F2868TR-ND ***NEW!***	2,000	283.00/M	2920L100PR
	1.25	2.50	15	40	8.00	2.00	0.070	0.250	F2869CT-ND ***NEW!***	1.54	1.42	1.19	F2869TR-ND ***NEW!***	2,000	595.00/M	2920L125PR
	1.50	3.00	33	40	8.00	2.00	0.080	0.230	F2870CT-ND ***NEW!***	.77	.71	.60	F2870TR-ND ***NEW!***	1,500	297.00/M	2920L150DR
	1.85	3.70	33	40	8.00	2.50	0.065	0.150	F2871CT-ND ***NEW!***	.81	.75	.63	F2871TR-ND ***NEW!***	1,500	312.00/M	2920L185DR
	2.00	4.00	24	40	8.00	5.00	0.050	0.125	F2872CT-ND ***NEW!***	1.92	1.77	1.49	F2872TR-ND ***NEW!***	1,500	744.00/M	2920L200/24DR
	2.50	5.00	15	40	8.00	10.00	0.035	0.085	F2873CT-ND ***NEW!***	1.92	1.77	1.49	F2873TR-ND ***NEW!***	1,500	744.00/M	2920L250DR
	2.60	5.00	6	40	8.00	10.00	0.025	0.075	F2874CT-ND ***NEW!***	1.92	1.77	1.49	F2874TR-ND ***NEW!***	2,000	744.00/M	2920L260PR
	3.00	5.00	15	40	8.00	20.00	0.015	0.048	F2875CT-ND ***NEW!***	1.92	1.77	1.49	F2875TR-ND ***NEW!***	1,500	744.00/M	2920L300/15DR

Expertise Applied | Answers Delivered

PulseGuard® SMT ESD Suppressor

PulseGuard ESD suppressor provides protection for electronic devices against the threat of electrostatic discharge (ESD). Employing a voltage variable material to switch between high resistance and low resistance states, shunting ESD transients away from sensitive circuitry in applications like USB, IEEE1394, HDMI and DVI. PulseGuard suppressor complies with ESD specification IEC 61000-4-2.

0402 Specifications:

• **Continuous Operating Voltage**: 12VDC maximum • **Clamping Voltage (2):** 250V typical • **Peak Trigger Voltage (1):** 1,000V typical • **Capacitance:** 0.04pF (test frequency 250MHz) • **Leakage Current:** <1nA (12VDC test voltage) • **Operating Temperature Range:** -65°C ~ 125°C • **ESD Pulse Withstand:** 100 pulses minimum

0603 Specifications:

• **Continuous Operating Voltage:** 24VDC, maximum • **Clamping Voltage (2):** 150V typical • **Peak Trigger Voltage (1):** 500V typical • **Capacitance:** 0.06pF (test frequency 250MHz) • **Leakage Current:** <1nA (6VDC test voltage) • **Operating Temperature Range:** -65°C ~ 125°C • **ESD Pulse Withstand:** 1,000 pulses minimum

SOT-23 Specifications:

• **Continuous Operating Voltage:** 24VDC, maximum • **Clamping Voltage (2):** 150V typical • **Peak Trigger Voltage (1):** 500V typical • **Capacitance:** 0.12pF (test frequency 250MHz) • **Leakage Current:** <1nA (6VDC test voltage) • **Operating Temperature Range:** -65°C ~ 125°C • **ESD Pulse Withstand:** 1,000 pulses minimum

(4)0805 Specifications:

• **Continuous Operating Voltage:** 24VDC, maximum • **Clamping Voltage (2):** 150V typical • **Peak Trigger Voltage (1):** 500V typical • **Capacitance:** 0.055pF (test frequency 250MHz) • **Leakage Current:** <1nA (6VDC test voltage) • **Operating Temperature Range:** -65°C ~ 125°C • **ESD Pulse Withstand:** 1,000 pulses minimum

Notes: (1) *Measured per IEC 61000-4-2 8kV contact discharge,*
(2) *IEC61000-4-2 8kV contact discharge after 25nS*

Fig. 1 – 0402 ***NEW!***

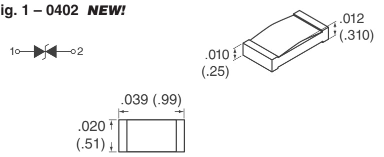

Fig. 2 – 0603

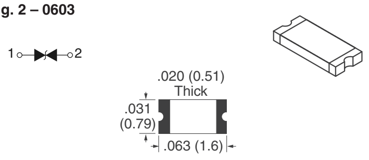

Fig. 3 – SOT-23

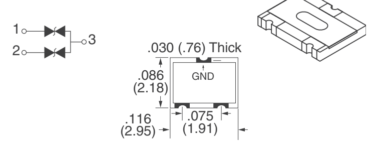

Fig. 4 – (4)0805

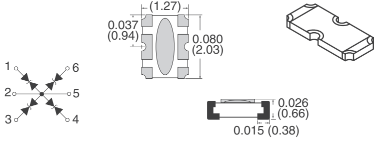

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel‡ Pricing	Littelfuse Part No.
1	F2862CT-ND†	1.19	1.09	3950.00/10,000	PGB1010402KR
2	F2594CT-ND	.82	.76	316.00/1,000	PGB1010603MR
3	F2596CT-ND	1.43	1.32	1569.00/3,000	PGB102ST23WR
4	F2595CT-ND	2.42	2.23	935.00/1,000	PGB1040805MR

† ***NEW!*** ‡ For Tape and Reel part number change CT-ND to TR-ND.

TeleLink® Fuse "0461" Series

Surface mount overcurrent protection from power cross and allows compliance with lightning surges.

Meets UL 60950 3rd Edition (formerly UL 1459) power cross requirements stand alone.

Designed to allow compliance with Bellcore/Telcordia GR-1089-CORE and TIA-968-A surge specifications.

Specifications:

- **Voltage Ratings:** 600V
- **Operating Temperature Range:** -55°C ~ 125°C
- **Materials:** Body: Ceramic; Terminations: Silver Plated Brass Caps
- **Soldering Parameters:** Reflow Solder -230°C, 30 seconds maximum. Wave solder -260°C, 3 seconds maximum
- **Packaging Specifications:** 24mm Tape and Reel per EIA-RS481. (IEC 286 part 3); 2500 fuses per reel

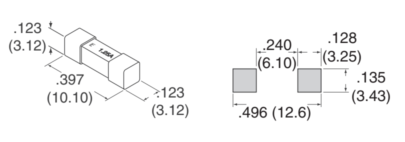

% of Amp. Rating	Opening Time (Minimum/Maximum)
100%	4 hours, minimum
250%	1 sec. minimum; 120 maximum

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,500
0461 Series						
.5	F1449CT-ND	1.76	1.62	1.36	F1449TR-ND	641.00/M
1.25	F1550CT-ND	1.76	1.62	1.36	F1550TR-ND	641.00/M
2.00	F1551CT-ND	1.76	1.62	1.36	F1551TR-ND	641.00/M

"0402" (1005) SlimLine™ Very Fast Acting Thin-Film 0435 Series

Specifications:

• **Operating Temperature:** -55°C ~ 90°C • **Voltage Rating:** 32V • **Materials:** Body: Epoxy Substrate; Terminations: Copper/Nickel/Tin-Lead Cover Coat: Conformal Coating • **Soldering Parameter:** Reflow Solder -260°C, 30 seconds maximum • **Packaging Specification:** 8mm Paper Tape and Reel per EIA-RS481-1 (IEC 286, part 3); 10,000 per reel. • **Interrupting Ratings:** 35A at 24 V AC/DC

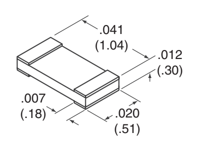

% of Amp. Rating	Opening Time (Minimum/Maximum)
100%	4 hours, minimum
200%	5 Sec., maximum
300%	0.2 Sec., maximum

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 10,000
0435 Series — Very Fast Acting						
.250	F1440CT-ND	1.22	1.12	.94	F1440TR-ND	405.00/M
.375	F1441CT-ND	1.22	1.12	.94	F1441TR-ND	405.00/M
.500	F1442CT-ND	1.22	1.12	.94	F1442TR-ND	405.00/M
.750	F1443CT-ND	1.22	1.12	.94	F1443TR-ND	405.00/M
1.00	F1444CT-ND	1.22	1.12	.94	F1444TR-ND	405.00/M
1.25	F1445CT-ND	1.22	1.12	.94	F1445TR-ND	405.00/M
1.50	F1446CT-ND	1.22	1.12	.94	F1446TR-ND	405.00/M
1.75	F1447CT-ND	1.22	1.12	.94	F1447TR-ND	405.00/M
2.00	F1448CT-ND	1.22	1.12	.94	F1448TR-ND	405.00/M

"0603" (1608) SlimLine™ Very Fast Acting Thin-Film 0467 Series

SlimLine 0603 Lead Free complies with electronic industry environmental standards for lead reduction. Alloy based element construction provides superior inrush withstand characteristics (I^2t) over ceramic or glass based 0603 fuse products.

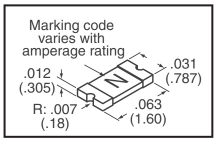

Specifications: • **Voltage Rating:** 32V AC/DC • **Construction Material:** Body: Advanced High Temperature Substrate; Terminations: Copper/Nickel/100% Tin; Element Cover Coat: Conformal Coating • **Interrupting Ratings:** 50A at 32V AC/DC (0.25 ~ 1A), 35A at 32V AC/DC (1.25 ~ 5A) • **Operating Temperature:** -55°C ~ 90°C • **Tape and Reel Specifications:** 8mm wide reels that are in compliance with EIA-RS481-2 (IEC 286, part 3)

% of Amp. Rating	Opening Time at 25°C
100%	4 hours, minimum
200%	5 sec., maximum
300%	0.2 sec., maximum

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
0467 Series							
.250	D	F1389CT-ND•	1.02	.94	.79	F1389TR-ND	352.00/M
.375	E	F1390CT-ND•	1.02	.94	.79	F1390TR-ND	352.00/M
.500	F	F1391CT-ND•	1.02	.94	.79	F1391TR-ND	352.00/M
.750	G	F1392CT-ND•	1.02	.94	.79	F1392TR-ND	352.00/M
1.00	H	F1393CT-ND•	1.02	.94	.79	F1393TR-ND	352.00/M
1.25	J	F1394CT-ND•	1.02	.94	.79	F1394TR-ND	352.00/M
1.50	K	F1395CT-ND•	1.02	.94	.79	F1395TR-ND	352.00/M
1.75	L	F1396CT-ND•	1.02	.94	.79	F1396TR-ND	352.00/M
2.00	N	F1397CT-ND•	1.02	.94	.79	F1397TR-ND	352.00/M
2.50	0	F1398CT-ND•	1.02	.94	.79	F1398TR-ND	352.00/M
3.00	P	F1399CT-ND•	1.02	.94	.79	F1399TR-ND	352.00/M
3.50	R	F1400CT-ND•	1.02	.94	.79	F1400TR-ND	352.00/M
4.00	S	F1401CT-ND•	1.02	.94	.79	F1401TR-ND	352.00/M
5.00	T	F1402CT-ND•	1.02	.94	.79	F1402TR-ND	352.00/M

• 467-KIT-ND Digi-Key® 467 Series Fuse
Very Fast Acting Slim Line™ Lead Free
10 each of parts indicated, plus a plastic storage box..................... **$99.95**

"1206" (3216) *Lead-Free* SlimLine™ Very Fast Acting and Slo-Blo® Thin-Film 0466 and 0468 Series

Features: • Complies with electronic industry environmental standards for lead reduction • Product is compatible with lead-free solders and higher temperature profiles • Element covering material is resistant to industry standard cleaning operations • Mounting pad and electrical performance is identical to Littelfuse 429 and 433 Series products • Alloy based element construction provides superior inrush withstand characteristics (I^2t) over ceramic or glass based 1206 chip fuse products

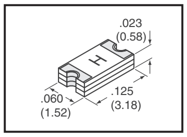

Specifications: • **Voltage Ratings:** 125V (.125~.375A), 63V (.500~2.0A), 32V (2.5A, 3.0), 24V (4~10A) • **Operating Temperature:** -55°C ~ 90°C • **Interrupting Ratings:** 0.125~.375A (50A at 125V AC/DC), 0.5~2A (50A at 63V AC/DC), 2.5~3A (50A at 32V AC/DC), 4~10A (35A at 24V AC/DC) • **Construction Material:** Body: Advanced High Temperature Substrate, Terminations: Copper/Nickel/100% Tin, Element Cover Coat: Conformal Coating **Tape and Reel Specifications:** 8mm Tape and Reel per EIA-RS481-2 (IEC 286, part 3)

% of Amp. Rating	Opening Time at 25°C Very Fast Acting	Slo-Blo®
100%	4 hours minimum	—
200%	5 sec., maximum	1 sec. minimum, 120 sec. maximum
300%	0.2 sec., maximum	0.1 sec. minimum, 3 sec. maximum
800%	—	0.002 sec. minimum, .05 sec. maximum

Amp. Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
0466 Series — Very Fast-Acting							
.125	B	F1450CT-ND•	.81	.75	.63	F1450TR-ND	280.00/M
.2	C	F1451CT-ND•	.81	.75	.63	F1451TR-ND	280.00/M
.25	D	F1452CT-ND•	.81	.75	.63	F1452TR-ND	280.00/M

(Continued)

Littelfuse
Expertise Applied | Answers Delivered

"1206" (3216) *Lead-Free* SlimLine™ Very Fast Acting and Slo-Blo® Thin-Film 0466 and 0468 Series *(Cont.)*

Amp. Rate	Mark-ing Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
.375	E	F1453CT-ND•	.81	.75	.63	F1453TR-ND	280.00/M
.5	F	F1454CT-ND•	.81	.75	.63	F1454TR-ND	280.00/M
.75	G	F1455CT-ND•	.81	.75	.63	F1455TR-ND	280.00/M
1	H	F1456CT-ND•	.81	.75	.63	F1456TR-ND	280.00/M
1.25	J	F1465CT-ND•	.81	.75	.63	F1465TR-ND	280.00/M
1.5	K	F1462CT-ND•	.81	.75	.63	F1462TR-ND	280.00/M
1.75	L	F1466CT-ND•	.81	.75	.63	F1466TR-ND	280.00/M
2	N	F1457CT-ND•	.81	.75	.63	F1457TR-ND	280.00/M
2.5	O	F1464CT-ND•	.81	.75	.63	F1464TR-ND	280.00/M
3	P	F1458CT-ND•	.81	.75	.63	F1458TR-ND	280.00/M
4	S	F1459CT-ND•	.81	.75	.63	F1459TR-ND	280.00/M
5	T	F1460CT-ND•	.81	.75	.63	F1460TR-ND	280.00/M
0468 Series — Slo-Blo®							
1.00	TH	F2658CT-ND	1.22	1.12	.94	F2658TR-ND	421.00/M
1.50	TK	F2569CT-ND	1.22	1.12	.94	F2569TR-ND	421.00/M
2.00	TN	F2570CT-ND	1.22	1.12	.94	F2570TR-ND	421.00/M
3.00	TP	F2571CT-ND	1.22	1.12	.94	F2571TR-ND	421.00/M

- **466-KIT-ND Digi-Key® 466 Series Fuse *Very Fast Acting* Slimline™ *Lead Free*** 10 each of parts indicated, plus a plastic storage box **$89.95**

SMF Omni-Blok® Fuse Block with Nano2® Very Fast Acting and Slo-Blo® Fuses

The SMF Omni-Blok® Fuseholder permits quick and easy replacement of Nano2® SMF surface mount fuses. The fuse block and pre-installed fuse combination can be placed on the PC board in one efficient manufacturing operation.

Specifications:

- **Electrical:** 10A, 125V
- **Molded Parts:** Thermoplastic (94V-0)
- **Ambient Temperature:** -55°C ~ 125°C
- **Soldering Parameters:** Infrared: 445°F (230°C), 30 seconds
- **Packaging:** 16mm wide Tape and Reel per EIA Standard 481. Installed fuses have silver plated end caps, installed to accommodate solder reflow process. Use 451 Series Fast Acting Fuse with tin/lead alloy plated end caps for replacement purposes of the 154 Series product. Use 452 Series Slo-Blo® Fuse with tin/lead alloy plated end caps for replacement purposes of the 154xxxT Series.

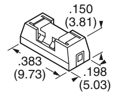

Amp. Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500
154 Series – Very Fast Acting						
.250	F1219CT-ND	2.93	2.70	2.27	F1219TR-ND	1134.00/M
.500	F1220CT-ND•	2.93	2.70	2.27	F1220TR-ND	1134.00/M
.750	F1221CT-ND•	2.49	2.30	1.93	F1221TR-ND	963.00/M
1.00	F1222CT-ND•	2.49	2.30	1.93	F1222TR-ND	963.00/M
1.50	F1223CT-ND•	2.49	2.30	1.93	F1223TR-ND	963.00/M
2.00	F1224CT-ND•	2.49	2.30	1.93	F1224TR-ND	963.00/M
2.50	F1225CT-ND•	2.49	2.30	1.93	F1225TR-ND	963.00/M
3.00	F1226CT-ND•	2.49	2.30	1.93	F1226TR-ND	963.00/M
4.00	F1227CT-ND•	2.49	2.30	1.93	F1227TR-ND	963.00/M
5.00	F1228CT-ND•	2.49	2.30	1.93	F1228TR-ND	963.00/M
7.00	F1229CT-ND	2.49	2.30	1.93	F1229TR-ND	963.00/M
8.00	F1239CT-ND	2.49	2.30	1.93	F1239TR-ND	963.00/M
10.00	F1251CT-ND	2.67	2.46	2.07	F1251TR-ND	1031.00/M

Amp. Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500
154xxxT Series – Slo-Blo®						
.375	F1300CT-ND	3.66	3.37	2.84	F1300TR-ND	1415.00/M
.500	F1301CT-ND•	3.66	3.37	2.84	F1301TR-ND	1415.00/M
.750	F1302CT-ND•	3.22	2.97	2.50	F1302TR-ND	1246.00/M
1.00	F1303CT-ND•	3.22	2.97	2.50	F1303TR-ND	1246.00/M
1.50	F1304CT-ND•	3.22	2.97	2.50	F1304TR-ND	1246.00/M
2.00	F1305CT-ND•	3.22	2.97	2.50	F1305TR-ND	1246.00/M
2.50	F1306CT-ND•	3.22	2.97	2.50	F1306TR-ND	1246.00/M
3.00	F1307CT-ND•	3.22	2.97	2.50	F1307TR-ND	1246.00/M
3.50	F1308CT-ND	3.22	2.97	2.50	F1308TR-ND	1246.00/M
4.00	F1309CT-ND•	3.22	2.97	2.50	F1309TR-ND	1246.00/M
5.00	F1310CT-ND•	3.22	2.97	2.50	F1310TR-ND	1246.00/M

- **154-KIT-ND Digi-Key® 154 Series Fuseblock with Fuse *Fast Acting and Slo-Blo® Surface Mount Nano2®*** 5 each of parts indicated, plus a plastic storage box **$149.95**

Nano2® SMF Very Fast-Acting and Slo-Blo® Fuses

1~5 Amp R451 Series PS E **.25~5 Amp R451 Series**

Nano2® Surface Mount Fuses incorporate proven Picofuse performance and dependability in a flat top design which permits efficient pick and place assembly.

- **Recommended Soldering Parameters:** *Infrared Reflow* for 30 seconds is 500°F (260°C) for Very Fast-Acting; 445°F (230°C) for Slo-Blo®. *Wave Solder* is 500°F (260°C) for 10 seconds for Very Fast-Acting; 500°F (260°C) for 3 seconds maximum for Slo-Blo®.
- **Construction Materials:** Body is ceramic, Caps are tin-lead alloy plated brass.

RoHS Compliant Terminations: Gold over nickel plated caps.

- **Operating Temperature Range:** -55°C ~ 125°C
- **Voltage Rating:** 125V, 65V: F1151

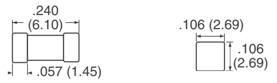

Fast Acting			Slo-Blo®	
Rating	Amps	Opening Time	Rating	Opening Time (Minimum/ Maximum)
100%	1/16~15	4 hours minimum	100%	4 hrs. minimum
200%	1/16~10	5 sec., maximum	200%	1 sec. / 60 sec.
200%	12~15	20 sec., maximum	300%	0.2 / 3 sec.
—	—	—	800%	0.02 / 0.1 sec.

Amp. Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
R451 Series - Very Fast Acting						
.250	F2572CT-ND	1.19	1.10	.92	—	—
.375	F2573CT-ND	1.19	1.10	.92	F2573TR-ND	460.00
.500	F2574CT-ND	1.19	1.10	.92	F2574TR-ND	460.00
.630	F2575CT-ND	1.19	1.10	.92	F2575TR-ND	460.00
.750	F2576CT-ND	1.19	1.10	.92	F2576TR-ND	460.00
1.000	F2577CT-ND	1.19	1.10	.92	F2577TR-ND	460.00
1.250	F2578CT-ND	1.19	1.10	.92	F2578TR-ND	460.00
1.500	F2579CT-ND	1.19	1.10	.92	F2579TR-ND	460.00
1.600	F2580CT-ND	1.19	1.10	.92	F2580TR-ND	460.00
2.000	F2581CT-ND	1.19	1.10	.92	F2581TR-ND	460.00
2.500	F2582CT-ND	1.19	1.10	.92	F2582TR-ND	460.00
3.000	F2583CT-ND	1.19	1.10	.92	F2583TR-ND	460.00
3.150	F2584CT-ND	1.19	1.10	.92	F2584TR-ND	460.00
3.500	F2585CT-ND	1.19	1.10	.92	F2585TR-ND	460.00
4.000	F2586CT-ND	1.19	1.10	.92	F2586TR-ND	460.00

Amp. Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
5.000	F2587CT-ND	1.19	1.10	.92	F2587TR-ND	460.00
6.300	F2588CT-ND	1.19	1.10	.92	F2588TR-ND	460.00
7.000	F2589CT-ND	1.19	1.10	.92	F2589TR-ND	460.00
8.000	F2590CT-ND	1.19	1.10	.92	F2590TR-ND	460.00
10.000	F2591CT-ND	1.88	1.74	1.46	F2591TR-ND	728.00
12.000	F2592CT-ND	1.88	1.74	1.46	F2592TR-ND	728.00
15.000	F2593CT-ND	1.88	1.74	1.46	F2593TR-ND	728.00
R452 Series – Slo-Blo®						
0.375	F2597CT-ND	1.61	1.48	1.25	F2597TR-ND	622.00
0.500	F2598CT-ND	1.61	1.48	1.25	F2598TR-ND	622.00
0.750	F2599CT-ND	1.61	1.48	1.25	F2599TR-ND	622.00
1.000	F2600CT-ND	1.61	1.48	1.25	F2600TR-ND	622.00
1.500	F2601CT-ND	1.61	1.48	1.25	F2601TR-ND	622.00
2.000	F2602CT-ND	1.61	1.48	1.25	F2602TR-ND	622.00
2.500	F2603CT-ND	1.61	1.48	1.25	F2603TR-ND	622.00
3.000	F2604CT-ND	1.61	1.48	1.25	F2604TR-ND	622.00
3.500	F2605CT-ND	1.61	1.48	1.25	F2605TR-ND	622.00
4.000	F2606CT-ND	1.61	1.48	1.25	F2606TR-ND	622.00
5.000	F2607CT-ND	1.61	1.48	1.25	F2607TR-ND	622.00

PICO II™ Very Fast-Acting Pico Fuses

1~5 Amp PS E

QPL

Patents: U.S. Patent #2,385,281

Construction Materials: Body:UL 94V-0 epoxy coating, green

RoHS Compliant

Product: Pure tin coated copper wire leads

- **Ratings:** 300 amps at rated voltage VDC 50A VAC
- **Operating Temp.:** -55°C ~ 125°C

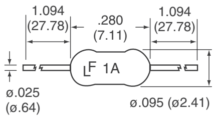

Electrical Characteristics:

Rating	Amperage	Opening Time
100%	1/16~15	4 hours, minimum
200%	1/16~7	1 seconds, maximum
200%	10	3 seconds, maximum
200%	12~15	10 seconds, maximum

Amp. Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
0251 Series — Non Color-Coded Type (Bulk)					
.062	125	F2307-ND	1.13	1.05	.79
.125	125	F2308-ND•	.72	.66	.50
.250	125	F2309-ND	.72	.66	.50
.375	125	F2310-ND	.72	.66	.50
.500	125	F2311-ND•	.53	.49	.37
.630	125	F2312-ND	.53	.49	.37
.750	125	F2353-ND•	.53	.49	.37
1.000	125	F2313-ND•	.53	.49	.37
1.250	125	F2323-ND	.53	.49	.37
1.500	125	F2319-ND•	.53	.49	.37
2.000	125	F2314-ND•	.53	.49	.37
2.500	125	F2321-ND	.53	.49	.37
3.000	125	F2315-ND•	.53	.49	.37
3.500	125	F2322-ND	.53	.49	.37
4.000	125	F2316-ND•	.53	.49	.37
5.000	125	F2317-ND•	.53	.49	.37
7.000	125	F2318-ND	.53	.49	.37
10.000	125	F2320-ND	.53	.49	.37
12.000	32	F2351-ND	.72	.66	.50
15.000	32	F2352-ND	.72	.66	.50

- **251L-473L-KIT-ND Digi-Key® 251 Series Fuse *Very Fast Acting*** and **473 Series Fuse *Slo-Blo® Axial Pico II*™** 5 each of parts indicated, plastic storage box **not** included **$99.96**

Littelfuse

Expertise Applied | Answers Delivered

1~5 Amp

Slo-Blo® Pico Fuses

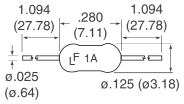

Construction Materials: Body-UL94V0 epoxy coating, gold. Leads-solder coated copper wire. • ***RoHS Compliant*** **Product**: Pure tin coated copper wire leads • **Operating Temperature Range:** -55°C ~ 125°C

Electrical Characteristics

Rating	Opening Time	Rating	Opening Time
100%	4 hrs., minimum	200%	60 sec., maximum
300%	3 sec., maximum	800%	0.1 sec., maximum

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricing 1,000
0473L Series - Non-Color Coded Type - RoHS Compliant					
.375	F2338CT-ND	2.21	2.03	F2338TR-ND	853.00
.500	F2339CT-ND•	2.21	2.03	F2339TR-ND	853.00
.750	F2340CT-ND•	2.21	2.03	F2340TR-ND	853.00
1.00	F2341CT-ND•	2.21	2.03	F2341TR-ND	853.00
1.50	F2347CT-ND•	2.21	2.03	F2347TR-ND	853.00
2.00	F2342CT-ND•	2.21	2.03	F2342TR-ND	853.00
2.25	F2350CT-ND	2.21	2.03	F2350TR-ND	853.00
2.50	F2348CT-ND	2.21	2.03	F2348TR-ND	853.00
3.00	F2343CT-ND•	2.21	2.03	F2343TR-ND	853.00
3.50	F2349CT-ND•	2.21	2.03	F2349TR-ND	853.00
4.00	F2344CT-ND•	2.21	2.03	F2344TR-ND	853.00
5.00	F2345CT-ND•	2.21	2.03	F2345TR-ND	853.00
7.00	F2346CT-ND	2.21	2.03	F2346TR-ND	853.00

• **251L-473L-KIT-ND Digi-Key® 251 Series Fuse** ***Very Fast Acting*** and **473 Series Fuse** ***Slo-Blo® Axial Pico II***™ 5 each of parts indicated, plastic storage box **not** included — ***RoHS Compliant*** **$99.96**

PICO II™ 250 Volt Very Fast-Acting Pico Fuses

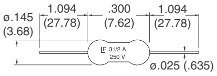

Interrupting Rating: 50 Amperes at 250VAC

Construction Materials: Encapsulated, epoxy-coated body; Pure tin coated copper leads; green in color

Electrical Characteristics

% Amp Rating	Opening Time (Minimum/Maximum)
100% 200% 300%	4 hours, minimum 1 sec. maximum 0.1 sec. maximum

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
0263L Series					
.062	250	F2324-ND	2.41	2.23	1.67
.125		F2325-ND	1.92	1.77	1.33
.250		F2326-ND	1.92	1.77	1.33
.375		F2327-ND	1.92	1.77	1.33
.500		F2328-ND	1.92	1.77	1.33
.750	250	F2329-ND	1.59	1.47	1.10
1.00		F2330-ND	1.59	1.47	1.10
1.50		F2335-ND	1.59	1.47	1.10
2.00		F2331-ND	1.59	1.47	1.10
2.50		F2336-ND	1.59	1.47	1.10
3.00	250	F2332-ND	1.59	1.47	1.10
3.50		F2337-ND	1.59	1.47	1.10
4.00		F2333-ND	1.59	1.47	1.10
5.00		F2334-ND	1.59	1.47	1.10

Pico SMD Very Fast-Acting and Slo-Blo® SMT Fuses

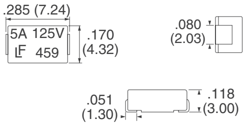

1~5 Amp
R460 Series

EIA Case Code 7343 Laser etched for ease of identification.

- **Operating Temperature:** -55°C ~ 125°C
- **Soldering Methods:** *Infrared Reflow* is 500°F (260°C) maximum temperature for Very Fast-Acting; 446°F (230°C) maximum temperature for Slo-Blo®. *Thru the wave soldering* is 500°F (260°C),10 seconds maximum.
- **Voltage Rating:** 125

Rating	Fast-Acting Opening Time	Slo-Blo® Opening Time
100%	4 hrs. minimum	4 hrs., minimum
200%	1 sec. maximum	60 sec., maximum
300%	—	3 sec., maximum
800%	—	0.1 sec. maximum

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500
R459 Series – Very Fast-Acting						
.125	F1160CT-ND	1.41	1.30	1.09	F1160TR-ND	300.00
.250	F1161CT-ND	1.41	1.30	1.09	F1161TR-ND	300.00
.375	F1162CT-ND	1.41	1.30	1.09	F1162TR-ND	300.00
.500	F1163CT-ND	1.05	.97	.81	F1163TR-ND	223.00
.750	F1164CT-ND	1.05	.97	.81	F1164TR-ND	223.00
1.00	F1165CT-ND	1.05	.97	.81	F1165TR-ND	223.00
1.50	F1166CT-ND	1.05	.97	.81	F1166TR-ND	223.00
2.00	F1167CT-ND	1.05	.97	.81	F1167TR-ND	223.00
2.50	F1168CT-ND	1.05	.97	.81	F1168TR-ND	223.00
3.00	F1169CT-ND	1.05	.97	.81	F1169TR-ND	223.00
3.50	F1170CT-ND	1.05	.97	.81	F1170TR-ND	223.00
4.00	F1171CT-ND	1.05	.97	.81	F1171TR-ND	223.00
5.00	F1172CT-ND	1.05	.97	.81	F1172TR-ND	223.00
R460 Series – Slo-Blo®						
.375	F1180CT-ND	2.22	2.04	1.72	F1180TR-ND	473.00
.500	F1181CT-ND	2.22	2.04	1.72	F1181TR-ND	473.00
.750	F1182CT-ND	2.22	2.04	1.72	F1182TR-ND	473.00
1.00	F1183CT-ND	2.22	2.04	1.72	F1183TR-ND	473.00
1.50	F1184CT-ND	2.22	2.04	1.72	F1184TR-ND	473.00
2.00	F1185CT-ND	2.22	2.04	1.72	F1185TR-ND	473.00
2.50	F1186CT-ND	2.22	2.04	1.72	F1186TR-ND	473.00
3.00	F1187CT-ND	2.22	2.04	1.72	F1187TR-ND	473.00
3.50	F1188CT-ND	2.22	2.04	1.72	F1188TR-ND	473.00
4.00	F1189CT-ND	2.22	2.04	1.72	F1189TR-ND	473.00
5.00	F1190CT-ND	2.22	2.04	1.72	F1190TR-ND	473.00

Metric (5x20mm) Fuses
(UL Standards)

Fast-Acting 235 Series
Medium-Acting 234 Series
Slo-Blo® 239 Series

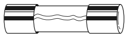

- Operating Temperature: -55C ~ 125°C
- Designed to UL/CSA/ANCE 248 Standard

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
235P Series — Fast-Acting					
.250	250	F2670-ND	.80	.58	.52
.300		F2671-ND	.80	.58	.52
.400		F2672-ND	.80	.58	.52
.500		F2673-ND	.44	.32	.28
.600		F2674-ND	.44	.32	.28
.700	250	F2675-ND	.44	.32	.28
.800		F2676-ND	.44	.32	.28
1.00		F2677-ND	.35	.26	.23
1.25		F2678-ND	.35	.26	.23
1.60		F2679-ND	.35	.26	.23
2.00	250	F2680-ND	.35	.26	.23
2.50		F2681-ND	.35	.26	.23
3.00		F2682-ND	.35	.26	.23
4.00	125	F2683-ND	.35	.26	.23
5.00		F2684-ND	.35	.26	.23
6.00		F2685-ND	.35	.26	.23
234P Series — Medium-Acting					
1.00	250	F2686-ND	.85	.62	.55
1.60		F2687-ND	.85	.62	.55
2.00		F2688-ND	.85	.62	.55
2.50		F2689-ND	.85	.62	.55
3.00		F2690-ND	.85	.62	.55
3.50	250	F2691-ND	.85	.62	.55
4.00		F2692-ND	.85	.62	.55
5.00		F2693-ND	.85	.62	.55
6.00		F2694-ND	.85	.62	.55
239P Series — Time Lag (Slo-Blo®)					
.250	250	F2695-ND	1.11	.81	.72
.300		F2696-ND	1.11	.81	.72
.400		F2697-ND	.85	.62	.55
.500		F2698-ND	.85	.62	.55
.600		F2699-ND	.85	.62	.55
.700	250	F2700-ND	.85	.62	.55
.800		F2701-ND	.85	.62	.55
1.00		F2702-ND	.85	.62	.55
1.25		F2703-ND	.85	.62	.55
1.60		F2704-ND	.85	.62	.55
2.00	250	F2705-ND	.85	.62	.55
2.50		F2706-ND	.85	.62	.55
3.00		F2707-ND	.85	.62	.55

Metric (5x20mm) Fuses
(IEC Standards)

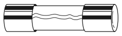

Slo-Blo® High Breaking Capacity 215P Series
Fast-Acting High Breaking Capacity 216/216P Series
Fast-Acting 217/217P Series
Slo-Blo® 218P Series

Approvals:

215P Series: CE 200mA ~ 12A; SEMKO 200mA ~ 10 Amperes; BSI approved 200mA ~ 6.3 Amperes; UL and CSA recognized 500mA ~ 12 Amperes; CCC Certified 1 ~ 6.3 Amperes; PSE 1 ~ 12 Amperes

216/216P Series: UL and CSA recognized .050~10 Amperes; VDE approved .080 ~.250, .400~1.6, 2.5~4.0, 6.3 Amperes; CCC Certified .080 ~.800 Amperes; BSI 1~6.3 Amperes; SEMKO approved .080 ~.125 Amperes

217/217P Series: SEMKO .032 ~.800 Amperes; VDE approved .032~6.3 Amperes; BSI approved .400 ~ 6.3 Amperes; UL and CSA recognized .032 ~ 6.3 Amperes; CCC Certified .080~.800 Amperes

218P Series: SEMKO .800 ~ 6.3 Amperes; VDE approved .032 ~ 6.3 Amperes; BSI approved .080 ~ 6.3 Amperes; UL and CSA recognized .032 ~15 Amperes

Interrupting Capacity: 215P & 216/216P Series: 1500 Amperes @ 250VAC. **217/217P Series:** 35 Amperes or 10 x rated current, whichever is greater, to a maximum of 100 Amps @ 250VAC. **218P Series:** 35 Amperes or 10 x rated current, whichever is greater to a maximum of 100 Amps @ 250VAC.

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
215P — Series Slo-Blo® High Braking Capacity; Ceramic Body - RoHS Compliant					
1.00	250	F2659-ND	1.40	1.02	.90
1.25		F2660-ND	1.40	1.02	.90
1.60		F2661-ND	1.40	1.02	.90
2.00		F2662-ND	1.40	1.02	.90
2.50		F2663-ND	1.40	1.02	.90
3.15	250	F2664-ND	1.40	1.02	.90
4.00		F2665-ND	1.40	1.02	.90
5.00		F2666-ND	1.40	1.02	.90
6.30		F2667-ND	1.40	1.02	.90
8.00		F2668-ND	1.40	1.02	.90
10.00		F2669-ND	1.40	1.02	.90
216 Series — Fast-Acting High Breaking Capacity; Ceramic Body					
.160	250	F905-ND	1.49	1.12	.99

(Continued)

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DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Littelfuse
Expertise Applied | Answers Delivered

Metric (5x20mm) Fuses
(IEC Standards) *(Cont.)*

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
216P Series — Fast-Acting High Breaking Capacity; Ceramic Body - RoHS Compliant					
.050	250	F2354-ND•	1.73	1.26	1.12
.080		F2355-ND	1.38	1.01	.89
.100		F2356-ND•	1.38	1.01	.89
.125		F2357-ND•	1.38	1.01	.89
.160		F2358-ND	1.38	1.01	.89
.200	250	F2359-ND	1.38	1.01	.89
.250		F2360-ND•	1.38	1.01	.89
.315		F2361-ND•	1.38	1.01	.89
.400		F2362-ND	1.38	1.01	.89
.500		F2363-ND•	1.38	1.01	.89
.630	250	F2364-ND•	1.38	1.01	.89
.800		F2365-ND•	1.38	1.01	.89
1.00		F2366-ND•	1.25	.91	.81
1.25		F2375-ND•	1.25	.91	.81
1.60		F2371-ND	1.25	.91	.81
2.00	250	F2367-ND•	1.25	.91	.81
2.50		F2373-ND•	1.25	.91	.81
3.15		F2376-ND•	1.25	.91	.81
4.00		F2368-ND•	1.25	.91	.81
5.00		F2369-ND•	1.25	.91	.81
6.30	250	F2374-ND•	1.25	.91	.81
8.00		F2370-ND•	1.25	.91	.81
10.00		F2372-ND•	1.25	.91	.81
217P Series — Fast-Acting Type - RoHS Compliant					
.032	250	F2377-ND	1.67	1.21	1.08
.040		F2378-ND	1.67	1.21	1.08
.050		F2379-ND	1.67	1.21	1.08
.063		F2380-ND	1.67	1.21	1.08
.080		F2381-ND	.98	.71	.63
.100	250	F2382-ND•	.98	.71	.63
.125		F2383-ND•	.98	.71	.63
.160		F2384-ND	.98	.71	.63
.200		F2385-ND	.98	.71	.63
.250		F2386-ND•	.98	.71	.63
.315	250	F2387-ND•	.98	.71	.63
.400		F2388-ND	.30	.22	.20
.500		F2389-ND•	.30	.22	.20
.630		F2390-ND•	.30	.22	.20
.800		F2391-ND•	.30	.22	.20
1.00	250	F2392-ND•	.30	.22	.20
1.25		F2402-ND•	.30	.22	.20
1.60		F2397-ND•	.30	.22	.20
2.000		F2393-ND•	.30	.22	.20
2.500		F2400-ND•	.30	.22	.20
3.150	250	F2403-ND•	.30	.22	.20
4.000		F2394-ND•	.30	.22	.20
5.000		F2395-ND•	.30	.22	.20
6.300		F2401-ND•	.30	.22	.20
8.000		F2396-ND•	.30	.22	.20
10.00		F2398-ND•	.30	.22	.20
15.00		F2399-ND	.30	.22	.20
218P Series — Slo-Blo® Type - RoHS Compliant					
.032	250	F2404-ND	2.24	1.62	1.44
.040		F2405-ND	2.24	1.62	1.44
.050		F2406-ND	2.24	1.62	1.44
.063		F2407-ND	2.24	1.62	1.44
.080		F2408-ND	2.24	1.62	1.44
.100	250	F2409-ND•	1.31	.95	.84
.125		F2410-ND•	1.31	.95	.84
.160		F2411-ND	1.31	.95	.84
.200		F2412-ND	1.31	.95	.84
.250		F2413-ND•	1.31	.95	.84
.315	250	F2414-ND•	1.31	.95	.84
.400		F2415-ND	1.31	.95	.84
.500		F2416-ND•	.90	.65	.58
.630		F2417-ND•	.90	.65	.58
.800		F2418-ND•	.90	.65	.58

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
1.00	250	F2419-ND•	.90	.65	.58
1.25		F2429-ND•	.90	.65	.58
1.60		F2424-ND•	.90	.65	.58
2.00		F2420-ND•	.90	.65	.58
2.50		F2427-ND•	.90	.65	.58
3.15	250	F2430-ND•	.90	.65	.58
4.00		F2421-ND•	.90	.65	.58
5.00		F2422-ND•	.90	.65	.58
6.30		F2428-ND•	.90	.65	.58
8.00		F2423-ND•	1.40	1.02	.90
10.00	250	F2425-ND•	1.40	1.02	.90
15.00		F2426-ND	1.40	1.02	.90

- **216P-KIT-ND Digi-Key® 216 Series Fuse *Fast Acting High Breaking Capacity*** 5 each of parts indicated, plus a plastic storage box
RoHS Compliant.. **$159.97**

- **217P-KIT-ND Digi-Key® 217 Series Fuse *Fast Acting*** 5 each of parts indicated, plus a plastic storage box
RoHS Compliant.. **$39.95**

- **218P-KIT-ND Digi-Key® 218 Series Fuse *Slo-Blo® Type*** 5 each of parts indicated, plus a plastic storage box
RoHS Compliant.. **$89.95**

350 Volt SMT Fuses
Fast-Acting EBF Series

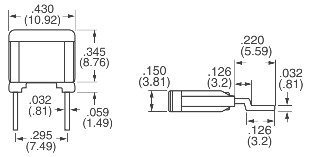

2~5 Amp

- Ideal for use in electronic lighting ballast, power supply and power inverter applications • Rated for use in 125, 250, 277 and 350 VAC circuits.
- **Agency Approvals:** UL recognized, CSA certified, MITI approved for 5 Amps
- **Interrupting Ratings:** 100 Amps at 350VAC
- **Operating Temperature:** -40°C ~ 125°C
- **Physical Specifications:** Materials: Nylon Body; Silver Plated Zinc Terminations
- **Packaging Specifications:** 24mm Tape and Reel per EIA-RS481 (equivalent to IEC 286, part 3); 800 fuses per reel

Electrical Characteristics

% Amp Rating	Opening Time
100%	4 hours, minimum
200%	0.15 sec. minimum, 5 sec. maximum

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 800
446P Series						
2	F2709CT-ND	1.10	1.02	.85	F2709TR-ND	375.20
3	F2710CT-ND	1.10	1.02	.85	F2710TR-ND	375.20
5	F2711CT-ND	1.10	1.02	.85	F2711TR-ND	375.20
7.5	F2712CT-ND	1.10	1.02	.85	F2712TR-ND	375.20
10	F2713CT-ND	1.10	1.02	.85	F2713TR-ND	375.20

Barrier Network Fuses

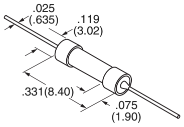

- Meets Barrier Network Standards (EN50020) for hazardous applications
- High interrupting rating

Voltage Rating: 250V

Interrupting Ratings: 4000 Amperes at 250 VAC/VDC

Part No.	Color Coding
F1290	Red
F1291	Green
F1292	Blue
F1293	Violet
F1294	Brown
F1295	Black

Electrical Characteristics

% Amp Rating	Opening Time
110%	4 hours, minimum
300%	10 seconds, maximum
1000%	0.002 seconds, maximum

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 500
242 Series						
.050	F1290CT-ND	5.11	4.71	3.96	F1290TB-ND	1090.50
.080	F1291CT-ND◆	5.11	4.71	3.96	F1291TB-ND◆	1090.50
.100	F1292CT-ND	5.11	4.71	3.96	F1292TB-ND	1090.50
.160	F1293CT-ND◆	5.11	4.71	3.96	F1293TB-ND◆	1090.50
.200	F1294CT-ND◆	5.11	4.71	3.96	F1294TB-ND◆	1090.50
.250	F1295CT-ND◆	5.11	4.71	3.96	F1295TB-ND◆	1090.50

◆ ***RoHS Compliant***

Microfuse
Very Fast-Acting Type

QPL

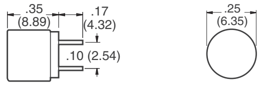

Operating Temperature Range: -55°C ~ 85°C

Electrical Characteristics

Rating	Amperage	Opening Time
100%	1/500 — 5	4 hrs., minimum
200%	1/500 — 3/10	5 sec., maximum
200%	4/10 — 5	2 sec., maximum

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	100	250
273 Series — Fast-Acting Type					
.050	125	F855-ND	5.11	3.54	3.15
.100		F857-ND	5.05	3.50	3.11
.125		F858-ND	5.05	3.50	3.11
.200		F859-ND	7.84	5.43	4.83
.250	125	F860-ND	5.05	3.50	3.11
.300		F861-ND	5.05	3.50	3.11
.400		F862-ND	5.05	3.50	3.11
.500		F863-ND	5.05	3.50	3.11
.600		F864-ND	7.84	5.43	4.83
.700	125	F865-ND	7.84	5.43	4.83
.750		F866-ND	5.11	3.54	3.15
1.00		F868-ND	5.05	3.50	3.11
1.50		F869-ND	5.05	3.50	3.11
2.00		F870-ND	5.05	3.50	3.11
3.00	125	F871-ND	5.05	3.50	3.11
4.00		F872-ND	5.05	3.50	3.11
5.00		F873-ND	5.05	3.50	3.11

Safe-T-Plus Fuses

- Designed to allow equipment to meet “Intrinsically Safe” certification for applications in gas plants, petrochemical and processing industries where there is a danger of gas explosion from faulty circuits.
- Hermetically sealed

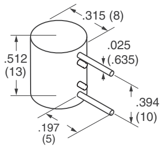

Voltage Rating: 125V

Interrupting Ratings: 50 Amps at 125VAC; 300 Amps at 125VDC

Agency Approvals: Meets CENELEC EN50 014 to 039 and IEC 60079-11 and BASEEFA BS 5501, part 7.

Electrical Characteristics

% Amp Rating	Opening Time
100%	4 hours, minimum
200%	5 seconds, maximum

Amp Rating	Voltage Drop	Digi-Key Part No.	Price Each 1	100	250
259 Series					
.062	2.1	F1311-ND	4.43	3.07	2.73
.125	1.3	F1312-ND	4.43	3.07	2.73
.250	0.83	F1313-ND	4.43	3.07	2.73
.500	0.78	F1315-ND	4.43	3.07	2.73
.750	0.23	F1316-ND	4.43	3.07	2.73
1.00	0.24	F1317-ND	4.43	3.07	2.73

Schedule of Limitations:

1. The fuse must be so mounted that creepage and clearance distances meet the requirements of Table 2 of EN50020: 1977 or Table 4 of EN500020: 1994 (equivalent to IEC 60079-11 4th Edition 1999).
2. When used in intrinsically safe apparatus it will be necessary to determine a surface temperature classification for the fuse.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Littelfuse

Expertise Applied | Answers Delivered

ATO Fuse: Mini, ATO and Maxi

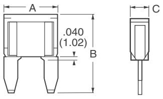

Mini Autofuse Series

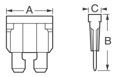

Standard and Maxi

Designed and originated by Littelfuse for the automotive industry, the ATO fuse has become the original equipment circuit protection standard for foreign and domestic automobiles and trucks. This fuse can also be specified for a variety of low voltage electronic applications.

Design Standards: UL Standard for Automotive Blade Type Fuses. SAE (Society of Automotive Engineers) J1284

Color-Coding: Autofuse fuses are color-coded for easy amperage identification

Voltage Rating: 32V

Approvals: 297 Series: UL listed, 257 Series: UL listed 1~40 Amperes; CSA certified 3~30 Amperes, 299 Series: UL recognized 20~60 Amperes

Body Material: 297 & 299 Series: Nylon, 257 Series: Plastic.

	Dimensions - Inch (mm)		
Fuse Type	**A**	**B**	**C**
Mini-Fuse	.43 (10.92)	.63 (16.00)	.15 (3.81)
ATO Fuse	.75 (19.05)	.73 (18.54)	.20 (5.08)
Maxi-Fuse	1.15 (29.21)	1.35 (34.29)	.35 (8.89)

Amp Rating	Color Code	Digi-Key Part No.	Price Each		
			5	100	250
297 Series — Mini Fuses					
2	Grey	F986-ND•	.64	.47	.41
3	Violet	F987-ND•	.64	.47	.41
4	Pink	F988-ND•	.64	.47	.41
5	Tan	F989-ND•	.64	.47	.41
7.5	Brown	F990-ND•	.64	.47	.41
10	Red	F991-ND•	.64	.47	.41
15	Blue	F992-ND•	.64	.47	.41
20	Yellow	F993-ND•	.64	.47	.41
25	Natural	F994-ND•	.64	.47	.41
30	Green	F995-ND•	.64	.47	.41
257 Series — ATO Fuses					
1	Black	F2232-ND	.55	.40	.36
2	Grey	F2233-ND	.55	.40	.36
3	Violet	F996-ND•	.55	.40	.36
4	Pink	F997-ND	.55	.40	.36
5	Tan	F998-ND•	.55	.40	.36
7.5	Brown	F999-ND•	.55	.40	.36
10	Red	F1015-ND•	.55	.40	.36
15	Blue	F1016-ND•	.55	.40	.36
20	Yellow	F1017-ND•	.55	.40	.36
25	Natural	F1018-ND•	.55	.40	.36
30	Green	F1019-ND•	.55	.40	.36
35	Bl/Green	F2234-ND	.55	.40	.36
40	Amber	F1220-ND	.55	.40	.36
299 Series — Maxi Fuses					
20	Yellow	F1035-ND	1.61	1.17	1.04
30	Green	F1036-ND	1.61	1.17	1.04
40	Amber	F1037-ND	1.61	1.17	1.04
50	Red	F1038-ND	1.61	1.17	1.04
60	Blue	F1039-ND	1.61	1.17	1.04

• 257-297-KIT-ND Digi-Key® 257/297 Series Fuse *Mini and ATO*
5 each of parts indicated, plus a plastic storage box **$33.95**

Alarm Indicating Fuses

Electrical Characteristics

% Amp Rating	Opening Time
100%	10 minutes, minimum
150%	5 minutes, maximum

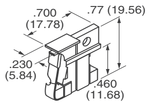

Alarm Indicating Fuses are ideal for telecom and control panel circuits. Color coded flag conforms to telecom color standards to easily identify amperage ratings. This series has enhancements with an expanded amperage range and higher interrupting ratings, making this a viable replacement for competitive lines such as Bussmann: GMT and San-O: AX-1 series product.

Agency Approval File Numbers: UL E71611, CSA LR29862.

Construction Materials: Body: Polyphenylene Sulfide (UL 94V0). Terminations: Beryllium Copper, Tin Plated.

Voltage Rating: 125VAC or 60VDC.

Interrupting Rating: 450 Amperes at 60VDC; 300 Amperes at 125 VAC/VDC.

Operating Temperature Range: -55°C ~ 125°C

Amp Rating	Color Code	Digi-Key Part No.	Price Each		
			1	10	100
0481 Series — Alarm Indicating Type					
2.00	Orange	F719-ND	2.40	2.22	1.66
3.00	Blue	F720-ND	2.40	2.22	1.66
3.50	Blue/Wht.	F721-ND	2.40	2.22	1.66
4.00	Brn./Wht.	F722-ND	2.40	2.22	1.66
5.00	Green	F723-ND	2.40	2.22	1.66
7.50	Blk./Wht.	F724-ND	2.40	2.22	1.66
10.00	Red/Wht.	F725-ND	2.40	2.22	1.66
12.00	Grn./Ylw.	F726-ND	2.40	2.22	1.66
15.00	Red/Blue	F727-ND	2.40	2.22	1.66

2AG Subminiature Fast-Acting Fuses

1~5 Amps
224 Series

.125~3.5 Amps

4~10 Amps

Pigtail Material: Tinned copper wire

Approvals:

Listed by U.L. and Certified by CSA. Patented. U.L. recognized

Dimensions:
Cartridge: Diameter: .177” (4.50mm); Length: .57” (14.48mm)

Pigtail:

Diameter: .19” (4.83mm); Length: .6” (15.24mm)

Leads:

Diameter: .025” (.64mm); Length Typ.: 1.50” (38.10mm)

Electrical Characteristics:

Rating	Opening Time
110%	4 hr., minimum
135%	1 hr., maximum
200%	1 sec., maximum

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
225 Series — Cartridge Type					
2.500	250	F648-ND	.60	.45	.40
225P Series — Cartridge Type — RoHS Compliant					
.125	250	F2447-ND	.78	.57	.50
.250		F2448-ND	.78	.57	.50
.375		F2449-ND	.53	.39	.35
.500		F2450-ND	.53	.39	.35
.750		F2451-ND	.53	.39	.35
1.000	250	F2452-ND	.53	.39	.35
1.500		F2460-ND	.53	.39	.35
2.000		F2453-ND	.53	.39	.35
2.500		F2462-ND	.53	.39	.35
3.000		F2454-ND	.53	.39	.35
3.500		F2463-ND	.53	.39	.35
224P Series — Pigtail Type — RoHS Compliant					
.125	250	F2431-ND	1.03	.75	.67
.250		F2432-ND	1.03	.75	.67
.375		F2433-ND	.79	.57	.51
.500		F2434-ND	.79	.57	.51
.750		F2435-ND	.79	.57	.51
1.000	250	F2436-ND	.79	.57	.51
1.500		F2443-ND	.79	.57	.51
2.000		F2437-ND	.79	.57	.51
2.500		F2445-ND	.79	.57	.51
3.000		F2438-ND	.79	.57	.51
3.500		F2446-ND	.79	.57	.51
4.000	125	F2439-ND	.79	.57	.51

Slo-Blo® Fuses

Approvals: Listed by U.L. and Certified by CSA through 3.5 Amperes. Recognized under the Components Program of U.L. from 4 through 7 Amperes. 229 Series 4 and 5 Amperes, 230 series 1 through 5 Amperes approved by METI.

Patents: U.S. Patents #4,409,729 and #4,445,106.

Dimensions:

Cartridge: Diameter: 177” (4.50mm); Length: .57” (14.48mm)

Pigtail: Diameter: .19” (4.83mm); Length: .60” (15.24mm)

Leads: Diameter: .025” (.64mm); Length: 1.50” (38.10mm)

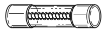

Pigtail Material:
Tinned copper wire

Electrical Characteristics:

Rating	Opening Time
110%	4 hrs., minimum
135%	1 hr., maximum
200%	3 sec., minimum/ 20 sec., maximum

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
229P Series — Cartridge Type					
.250	250	F2464-ND	.63	.46	.41
.375		F2465-ND	.63	.46	.41
.500		F2466-ND	.63	.46	.41
.750		F2467-ND	.63	.46	.41
1.000		F2468-ND	.63	.46	.41
1.250	250	F2477-ND	.63	.46	.41
1.500		F2474-ND	.63	.46	.41
2.000		F2469-ND	.63	.46	.41
2.250		F2478-ND	.63	.46	.41
2.500		F2475-ND	.63	.46	.41
3.000	250	F2470-ND	.63	.46	.41
3.500		F2476-ND	.63	.46	.41
4.000	125	F2471-ND	.63	.46	.41
5.000		F2472-ND	.63	.46	.41
7.000		F2473-ND	.63	.46	.41
230P Series — Pigtail Type					
.250	250	F2479-ND	.88	.64	.57
.375		F2480-ND	.88	.64	.57
.500		F2481-ND	.88	.64	.57
.750		F2482-ND	.88	.64	.57
1.000		F2483-ND	.88	.64	.57
1.250	250	F2492-ND	.88	.64	.57
1.500		F2489-ND	.88	.64	.57
2.000		F2484-ND	.88	.64	.57
2.500		F2490-ND	.88	.64	.57
3.000		F2485-ND	.88	.64	.57
3.500		F2491-ND	.88	.64	.57
4.000	125	F2486-ND	.88	.64	.57
5.000		F2487-ND	.88	.64	.57
7.000		F2488-ND	.88	.64	.57

3AB Ceramic Body Fast-Acting Fuses

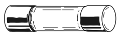

Dimensions: Diameter: 1/4” (6.35mm); Length: 1-1/4” (31.75mm).

Approvals: Listed by UL and Certified by CSA through 15 Amperes at 250 VAC / 125 VDC. Recognized under the Components Program of U.L. from 20~30 Amperes, certified by CSA at 20 Amperes and approved by METI from 10~30 Amperes.

Electrical Characteristics:

Rating	Amperage	Opening Time
110%	1/8 ~ 30	4 hrs., minimum
135%	1/8 ~ 30	1 hr., maximum
200%	1/8 ~ 12	15 sec., maximum
200%	15 ~ 30	30 sec., maximum

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
314 Series — Cartridge Type					
.250	250	F151-ND	1.51	1.13	1.01
314P Series — Cartridge Type RoHS Compliant					
.125	250	F2567-ND	1.35	.98	.87
.250		F2568-ND	1.35	.98	.87
.375		F2569-ND	.83	.61	.54
.500		F2570-ND	.83	.61	.54
.750		F2571-ND	.83	.61	.54
1.000	250	F2572-ND	.83	.61	.54
2.000		F2573-ND	.83	.61	.54
3.000		F2574-ND	.83	.61	.54
4.000		F2575-ND	.83	.61	.54
5.000		F2576-ND	.83	.61	.54
6.000	250	F2577-ND	.83	.61	.54
7.000		F2578-ND	.83	.61	.54
8.000		F2579-ND	.83	.61	.54
10.000		F2580-ND	.83	.61	.54
12.000		F2581-ND	.83	.61	.54
15.000	250	F2582-ND	.83	.61	.54
20.000		F2583-ND	1.23	.90	.80
25.000		F2584-ND	1.23	.90	.80
30.000		F2585-ND	1.23	.90	.80

Littelfuse
Expertise Applied | Answers Delivered

3AB Ceramic Body Slo-Blo® Fuses

Dimensions: Diameter: 1/4" (6.35mm); Length: 1-1/4" (31.75mm)

Patents: U.S. Patents #4,409,729 and #4,445,106

Approvals: Certified by CSA from .250~30 Amperes. Recognized under the component program of Underwriters Laboratories for 12~30 Amperes. Listed by Underwriters Laboratories from .250~10 Amperes.

Electrical Characteristics:

Rating	Opening Time
110%	4 hrs., minimum
135%	1 hr., maximum
200%	5 sec., minimum

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
326P Series — Cartridge Type					
.010	250	F2619-ND	3.56	2.58	2.30
.031		F2620-ND	3.56	2.58	2.30
.062		F2621-ND	3.56	2.58	2.30
.100		F2622-ND	3.56	2.58	2.30
.125		F2623-ND	3.56	2.58	2.30
.150	250	F2624-ND	3.56	2.58	2.30
.175		F2625-ND	1.47	1.07	.95
.187		F2626-ND	1.47	1.07	.95
.200		F2627-ND	1.47	1.07	.95
.250		F2628-ND	1.47	1.07	.95
.300	250	F2629-ND	1.47	1.07	.95
.375		F2630-ND	1.47	1.07	.95
.400		F2631-ND	1.47	1.07	.95
.500		F2632-ND	1.47	1.07	.95
.600		F2633-ND	1.47	1.07	.95
.700	250	F2634-ND	1.47	1.07	.95
.750		F2635-ND	1.47	1.07	.95
.800		F2636-ND	1.47	1.07	.95
1.000		F2637-ND	1.47	1.07	.95
1.200		F2644-ND	1.47	1.07	.95
1.250	250	F2656-ND	1.47	1.07	.95
1.500		F2645-ND	1.47	1.07	.95
1.600		F2646-ND	1.47	1.07	.95
2.000		F2638-ND	1.47	1.07	.95
2.500		F2650-ND	1.47	1.07	.95
2.800	250	F2651-ND	1.47	1.07	.95
3.000		F2639-ND	1.47	1.07	.95
3.200		F2654-ND	1.47	1.07	.95
4.000		F2640-ND	1.47	1.07	.95
5.000		F2641-ND	1.47	1.07	.95
6.250	250	F2657-ND	1.47	1.07	.95
7.000		F2642-ND	1.47	1.07	.95
8.000		F2643-ND	1.47	1.07	.95
10.000		F2647-ND	1.47	1.07	.95
12.000		F2648-ND	1.47	1.07	.95
15.000	250	F2649-ND	1.47	1.07	.95
20.000		F2652-ND	1.47	1.07	.95
25.000	125	F2653-ND	1.47	1.07	.95
30.000		F2655-ND	1.47	1.07	.95

3AG Glass Body Fast-Acting Fuses

Approvals:
Listed by UL and Certified by CSA through 30 Amperes. .010~10 Amperes listed to UL 248-14 (UL 198-G) 12~30 Amperes listed to UL 275.

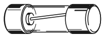

Dimensions:
312 Series: Diameter: .25" (6.35mm); Length: 1.25" (31.75mm).
318 Series: Diameter: .275" (6.99mm); Length: 1.275" (32.39mm); Pigtail Diameter: .032" (.81mm); Pigtail Length: 1.50" (38.10mm); Pigtail Material: Solder-coated copper.

Electrical Characteristics:

Rating	Opening Time
110%	4 hrs., minimum
135%	1 hr., maximum
200%	5 sec., maximum

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
312 Series — Cartridge Type					
.150	250	F105-ND	1.09	.82	.73
2.500	250	F120-ND	.29	.22	.20

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
312P Series - Cartridge Type — RoHS Compliant					
.062	250	F2495-ND•	1.82	1.33	1.18
.100		F2496-ND•	1.82	1.33	1.18
.125		F2497-ND•	1.06	.77	.68
.150		F2498-ND•	1.06	.77	.68
.175		F2499-ND•	1.06	.77	.68
.187	250	F2500-ND	1.06	.77	.68
.200		F2501-ND•	1.06	.77	.68
.250		F2502-ND•	1.06	.77	.68
.300		F2503-ND•	1.06	.77	.68
.375		F2504-ND•	.31	.23	.20
.500	250	F2505-ND•	.31	.23	.20
.600		F2506-ND•	.31	.23	.20
.750		F2507-ND•	.31	.23	.20
1.00		F2508-ND•	.31	.23	.20
1.25		F2521-ND•	.31	.23	.20
1.50	250	F2516-ND•	.31	.23	.20
1.60		F2517-ND•	.31	.23	.20
1.75		F2522-ND•	.31	.23	.20
1.80		F2518-ND•	.31	.23	.20
2.00		F2509-ND•	.31	.23	.20
2.25	250	F2523-ND•	.31	.23	.20
2.50		F2520-ND•	.31	.23	.20
3.00		F2510-ND•	.31	.23	.20
4.00		F2511-ND•	.31	.23	.20
5.00		F2512-ND•	.31	.23	.20
6.00	250	F2513-ND•	.31	.23	.20
7.00		F2514-ND•	.31	.23	.20
8.00		F2515-ND•	.31	.23	.20
10.00		F2519-ND•	.31	.23	.20
15.00	32	F2764-ND	.57	.42	.37
20.00		F2765-ND	.55	.40	.35
25.00		F2766-ND	.57	.42	.37
30.00		F2767-ND	.57	.42	.37
318 Series — Pigtail Type					
3.00	250	F221-ND	.83	.63	.56
318P Series — Pigtail Type — RoHS Compliant					
.125	250	F2603-ND	1.68	1.22	1.08
.250		F2604-ND	1.68	1.22	1.08
.300		F2605-ND	1.68	1.22	1.08
.375		F2606-ND	.74	.54	.48
.500		F2607-ND	.74	.54	.48
1.00	250	F2608-ND	.74	.54	.48
1.50		F2616-ND	.74	.54	.48
1.60		F2617-ND	.74	.54	.48
2.00		F2609-ND	.74	.54	.48
2.50		F2618-ND	.74	.54	.48
3.00	250	F2610-ND	.74	.54	.48
4.00		F2611-ND	.74	.54	.48
5.00		F2612-ND	.74	.54	.48
6.00		F2613-ND	.74	.54	.48
7.00		F2614-ND	.74	.54	.48
8.00		F2615-ND	.74	.54	.48

- **312P-KIT-ND Digi-Key® 312 Series *Fast Acting 3AG Cartridge***
5 each of parts indicated, and 10 each of fuse clips part numbers F040-ND and F052-ND, plus a plastic storage box
RoHS Compliant **$109.96**

3AG Glass Body Slo-Blo® Fuses

Approvals: Listed by Underwriters Laboratories and Certified by CSA .010 through 10 Amperes. 12~30 Amperes recognized under the Components Program of UL. 313(P) Series approved by METI from 1~10 Amperes.

1-10 Amps
313(P) Series

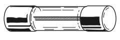

Dimensions:
313(P) Series:
Diameter: .25" (6.35mm); Length: 1.25" (31.75mm).
315(P) Series:
Diameter: .275" (6.99mm); Length: 1.275" (32.39mm); Pigtail Diameter: 1/100~15A: .032" (.813mm), 20~30A: .040" (1.016mm); Pigtail Material: Tin-coated copper.

Electrical Characteristics:

Rating	Opening Time
100%	4 hrs., minimum
135%	1 hr., maximum
200%	5 sec., minimum

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
313P Series — Cartridge Type					
.010	250	F2524-ND	3.75	2.73	2.42
.031		F2525-ND	3.75	2.73	2.42
.040	250	F2526-ND•	3.75	2.73	2.42
.062		F2527-ND•	1.94	1.41	1.25
.100		F2528-ND•	1.94	1.41	1.25
.125		F2529-ND•	1.94	1.41	1.25
.150		F2530-ND	1.94	1.41	1.25
.175	250	F2531-ND	1.12	.81	.72
.187		F2532-ND•	1.12	.81	.72
.200		F2533-ND•	1.12	.81	.72
.250		F2534-ND•	1.12	.81	.72
.300		F2535-ND•	1.12	.81	.72
.375	250	F2536-ND•	1.12	.81	.72
.400		F2537-ND•	1.12	.81	.72
.500		F2538-ND•	.85	.62	.55
.600		F2539-ND•	.85	.62	.55
.700		F2540-ND	.85	.62	.55
.750	250	F2541-ND•	.85	.62	.55
.800		F2542-ND•	.85	.62	.55
1.00		F2543-ND•	.85	.62	.55
1.20		F2550-ND	.85	.62	.55
1.25		F2564-ND•	.85	.62	.55
1.50	250	F2551-ND•	.85	.62	.55
1.60		F2552-ND•	.85	.62	.55
1.80		F2553-ND	.85	.62	.55
2.00		F2544-ND•	.85	.62	.55
2.25		F2565-ND•	.85	.62	.55
2.50	250	F2557-ND•	.85	.62	.55
2.80		F2558-ND	.85	.62	.55
3.00		F2545-ND•	.85	.62	.55
3.20		F2561-ND•	.85	.62	.55
4.00		F2546-ND•	.98	.71	.63
5.00	250	F2547-ND•	.98	.71	.63
6.25		F2566-ND•	.98	.71	.63
6.30		F2563-ND	.98	.71	.63
7.00		F2548-ND•	.98	.71	.63
8.00		F2549-ND•	.98	.71	.63
10.00	32	F2554-ND•	.98	.71	.63
12.00		F2555-ND•	.98	.71	.63
15.00		F2556-ND•	.98	.71	.63
20.00		F2559-ND•	1.25	.91	.81
25.00		F2560-ND•	1.25	.91	.81
30.00		F2562-ND•	1.25	.91	.81
315P Series — Pigtail Type					
.100	250	F2586-ND	3.27	2.37	2.11
.250		F2587-ND	1.32	.96	.85
.300		F2588-ND	1.32	.96	.85
.375		F2589-ND	1.32	.96	.85
.500		F2590-ND	1.32	.96	.85
.600	250	F2591-ND	1.32	.96	.85
.750		F2592-ND	1.32	.96	.85
1.00		F2593-ND	1.32	.96	.85
1.50		F2599-ND	1.32	.96	.85
1.60		F2600-ND	1.32	.96	.85
2.00	250	F2594-ND	1.32	.96	.85
2.50		F2601-ND	1.32	.96	.85
3.00		F2595-ND	1.32	.96	.85
3.20		F2602-ND	1.32	.96	.85
4.00		F2596-ND	1.32	.96	.85
5.00	250	F2597-ND	1.32	.96	.85
7.00		F2598-ND	1.32	.96	.85

- **313P-KIT-ND Digi-Key® 313 Series Slo-Blo® *3AG Cartridge***
5 each of parts indicated, and 10 each of fuse clips part numbers F040-ND and F052-ND, plus a plastic storage box............**$89.95**

Littelfuse
Expertise Applied | Answers Delivered

Automotive Fuseholders

Fig. 1 – Horizontal Mount

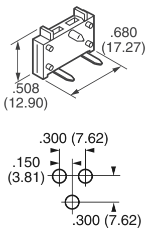

Fig. 2 – Vertical Mount

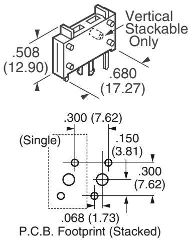

Fig. 3 – Autofuse Fuse Clip

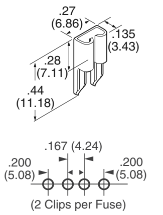

Fig. 4 – Mini Fuse Easy-Crimp Fuseholder

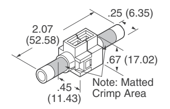

Materials: • Body: Black thermoplastic **• Terminals:** Tin plated copper alloy **• Operating Temperature:** -40°C ~ 105°C

Mini Fuse PC Board Fuseholder Specifications:

- **Terminals:** Copper alloy, tin-plated
- **Body:** Black thermoplastic (UL 94V0)
- **Electrical:** Recognized under the Components Program of Underwriters Laboratory for 15 Amperes and Certified by CSA for 10 Amperes. Three fuseholders can be mounted side by side (stacked) and operated at rated current. Contact factory for applications where more than three fuseholders will be stacked.
- **Voltage:** 32 VDC
- **Temperature Range:** -40°C ~ 85°C
- **PC Board Compatibility:** Designed for use with standard .062” (1.57mm) circuit board.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100
1	Horizontal Mini Holder	F064-ND	1.49	1.38	1.03
2	Single or End Cap Mini Holder	F065-ND	1.49	1.38	1.03
2	Stackable Mini Holder	F066-ND	1.49	1.38	1.03
3	ATO Fuse Clip	F067-ND	.27	.25	.19
4	In-line Mini Holder	F068-ND*	1.33	1.23	.93

* 20 Amperes maximum rating, terminals accept #16 ~ 22AWG

Maxifuse Block:

- Rated to 60 Amperes at 32V
- Interlocking block feature
- Built-in mounting bracket

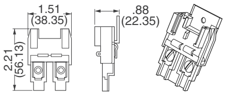

Description	Digi-Key Part No.	Price Each 1	100	250
Maxi Fuse Block	F1085-ND	21.27	14.73	13.09

In-Line Fuseholders:

- Rated at 32V
- Protective cover included

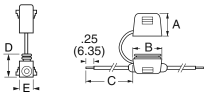

Dim.	Fuse Type - Inch (mm) MINI	ATO	MAXI
A	.52 (13.21)	.97 (24.64)	1.35 (34.29)
B	.97 (24.64)	1.00 (25.40)	3.36 (85.34)
C	4.0 (101.60)	4.0 (101.60)	6.0 (152.40)
D	.60 (15.24)	.67 (17.02)	1.39 (35.31)
E	.41 (10.41)	.43 (10.92)	1.12 (28.45)

Description	AWG Wire	Amp Rtg. (max.)	Digi-Key Part No.	Price Each 1	100	250
In-line Mini Holder	14	20	F1057-ND	3.72	2.58	2.30
In-line Mini Holder	12	30	F1058-ND	3.97	2.75	2.45
In-line Maxi Holder	6	60	F1059-ND	20.92	14.49	12.88
In-line ATO Holder	16	20	F1086-ND	3.39	2.35	2.09
In-line ATO Holder	12	30	F1087-ND	3.92	2.72	2.42

Panel Mount ATO Fuseholder:

- Assembled with 8” (203.2mm) wire loop, no fuse
- #14 wire/terminals rated to 20A
- #10 wire/terminals rated to 30A
- Snap mounting to panel
- Fuseholders interlock for multiple mounting.

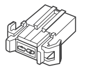

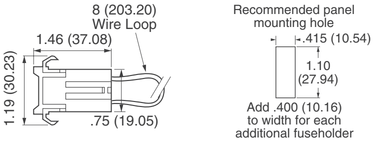

Description	AWG Wire	Amp Rtg. (max.)	Digi-Key Part No.	Price Each 1	100	250
Panel Mount Holder	14	20	F1088-ND	1.63	1.13	1.01
Panel Mount Holder	10	30	F1089-ND	2.37	1.64	1.46

In-Line Fuseholder Bayonet Knob

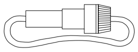

Universal 150145 fuseholder supplied with 15” loop of #14AWG red vinyl wire and 3 springs to accommodate all SFE size and 3AG fuses. 20 Amperes, 32V rated.

F049-ND (Littelfuse # 150145)..... **$3.21/1; $29.64/10; $222.30/100**

The 150079 fuseholder is supplied with 19” loop of #14AWG red vinyl insulated wire intended for use with 3AG fuses up to 20 Amperes.

F1467-ND (Littelfuse # 150079) ... **$3.08/1; $28.44/10; $213.30/100**

2AG or 5 x 20mm In-Line Fuse-holder Screw Together

Specifications:

Use with 2AG and 5 x 20mm fuses. Maximum current ratings are 5 Amperes at 32V for 2AG, and 10 Amperes at 32V for the 5 x 20mm size fuses.

Wire: 16 AWG; color red. Molded parts: Black thermoplastic

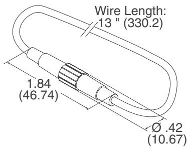

F1468-ND (Littelfuse # 150274) **$2.51/1; $23.19/10; $173.93/100**

Universal In-Line Fuseholder Twist-Lock

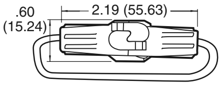

Supplied with 8” (20.32cm) loop of #14 AWG red vinyl insulated wire and two springs.

Electrical: Intended for use at 32V or less with fuses rated up to 20 Amperes when the proper spring is installed for fuse size.

Molded Parts: Black thermoplastic (UL 94V2). Body halves have a .14” (3.56mm) diameter hole for insulated wire.

Ambient Temperature: -40° ~ 75°C.

F062-ND (Littelfuse #155100)....... **$2.42/1; $22.35/10; $167.63/100**

Gangable Alarm Indicating Fuseholder

Dimensions in inches

PCB Mount

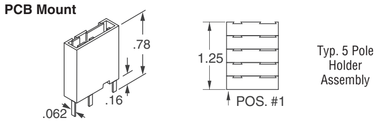

Panel Mount†

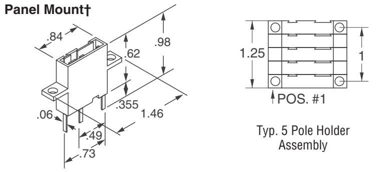

Specifications: • Electrical: Rated at 15 Amperes for any voltage up to 125VAC, 125 VDC **• Molded Bodies:** Black, Thermoplastic (UL 94VO) **• Terminals:** Alarm Terminal – Brass, tin-plated, wire-wrap type; Fuse Terminal – Beryllium copper, tin-plated

No. of Poles	Digi-Key Part No. PCB Mt.	Digi-Key Part No. Panel Mt.	Price Each 1	10	100
1	F1400-ND	F1420-ND	1.90	1.76	1.32
2	F1401-ND	F1421-ND	3.81	3.52	2.64
4	F1403-ND	F1423-ND	7.61	7.02	5.27
5	F1404-ND	F1424-ND	9.51	8.78	6.59
6	F1405-ND	F1425-ND	11.41	10.54	7.90
8	F1407-ND	F1427-ND	15.22	14.05	10.54
9	F1408-ND	F1428-ND	17.12	15.81	11.86
10	F1409-ND	F1429-ND	19.02	17.56	13.17
12	F1411-ND	F1431-ND	22.82	21.07	15.81
13	F1412-ND	F1432-ND	24.73	22.83	17.12
15	F1414-ND	F1434-ND	28.53	26.34	19.76
16	F1415-ND	F1435-ND	30.43	28.09	21.07
17	F1416-ND	F1436-ND	32.33	29.85	22.39
18	F1417-ND	F1437-ND	34.23	31.60	23.70
19	F1418-ND	F1438-ND	36.13	33.36	25.02
20	F1419-ND	F1439-ND	38.03	35.11	26.34

† On Panel Mount, first and last position have mounting holes only.

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE
ELECTRONICS CORP.

Fuseholders

For 1/4" (6.35mm)
Assembled with .125” (3.18mm) thick black phenolic

Fig. 1 (3AG)

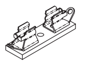

Fig. 2 (3AG)

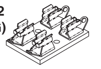

Fig. 3 (3AG)

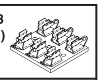

Fig. 4 (3AG)

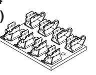

Auto Fuse Holders

Fig. 5

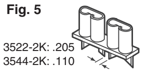

Fig. 6

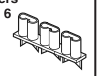

Fig. 7 3AG

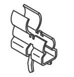

Fig. 8 5mm

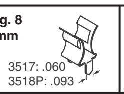

Fig. 9 2AG

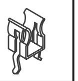

Fig. 10 2AG

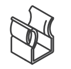

Fig. 11 5mm

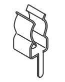

Fig. 12 5mm

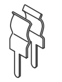

Fig. 13
4527k (5mm)
Order cover separately:
4527CK-ND

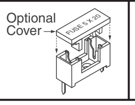

Fig. 14
4245 (3AG)
3527 (5mm)
Order cover separately:
3527CK-ND

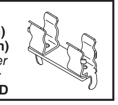

Fig.	Digi-Key Part No.	Pricing 1	10	100	500
1	3536K-ND	1.49	13.80	83.00	340.00
2	3537K-ND	2.45	22.62	148.00	610.00
3	3538K-ND	3.59	33.15	208.00	895.00
4	3539K-ND	4.35	40.64	274.00	1185.00
5	3522-2K-ND	.91	7.92	46.45	210.25
5	3544-2K-ND	.95	8.32	48.75	—
6	3522-3K-ND	1.20	10.52	61.50	279.50
7	3562K-ND	—	2.80	13.60	57.25
8	3517K-ND	—	2.11	11.20	47.50
8	3518PK-ND	—	2.12	11.20	47.50
9	3521K-ND	—	1.80	9.20	40.75
10	3561K-ND	—	1.80	9.20	40.75
11	3520K-ND	—	1.56	7.95	36.00
12	3519K-ND	—	1.54	7.55	34.75
13	4527K-ND	—	5.00	40.60	184.50
—	4527CK-ND	—	2.38	16.95	77.25
14	3527K-ND	1.38	12.07	66.00	275.00
14	4245K-ND	1.77	15.52	82.50	—
—	3527CK-ND	.44	4.11	30.75	—

Richco®

‘Quick Fit’ Fuse Covers

- For use on fuse terminal blocks or PCB-mounted fuse clips
- UL recognized E81260, rating 105°C, 600V
- Material: Flexible PVC, RMS-55
- Color: Transparent blue

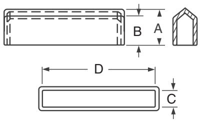

Dim.	Digi-Key Part No. RP613-ND	RP614-ND	RP615-ND	RP616-ND
A	.50 (12.70)	.50 (12.70)	.63 (16.00)	.50 (12.70)
B	.39 (9.91)	.39 (9.91)	.58 (14.73)	.39 (9.91)
C	.24 (6.10)	.28 (7.11)	.32 (8.13)	.32 (8.13)
D	.79 (20.07)	1.18 (29.97)	1.26 (32.00)	1.42 (36.07)

Fuse Type	Digi-Key Part No.	Price Each 25	100	Richco Part No.
Metric	RP613-ND	.57	.49	840620
Metric	RP614-ND	.92	.79	840730
Metric	RP615-ND	.97	.83	840832
Standard	RP616-ND	1.23	1.06	840836

Fuse Holders and Clips

2AG Shock-Safe Panel Mount Fuseholder

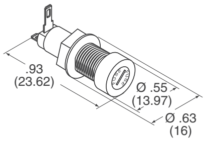

Specifications:
- **Terminals:** Brass, Tin-plated, .110" Solder/Q.C.
- **Current Rating:** 10 Amperes for any voltage up to 300V

F1469-ND
(Littelfuse # 02450001) **$3.81/1; $35.16/10; $263.70/100**

Water Tight 3AG Fuseholder

QPL

Panel Mount

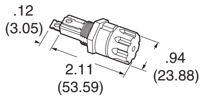

Specifications:
- **Electrical:** 20 Amperes, 250V
- **Knob:** Screw Type
- **Terminals:** Tin-plated, Solder Type
- **Seal:** O-Ring per MIL-PRF-19207

F1479-ND
(Littelfuse # 03420006) **$24.08/1; $222.24/10; $1666.80/100**

Fuse Blocks 5 x 20mm PC Board Type

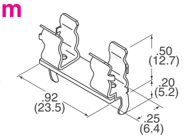

Specifications: • **Clip/Terminals:** Tin-plated spring brass • **Base:** phenolic laminate UL940VO • **Current Rating:** 6.3 Amperes, 250V

F1501-ND
(Littelfuse # 05200002H) **$1.00/1; $9.24/10; $69.30/100**

5 x 20mm Fuse Clip Automatic Insertion

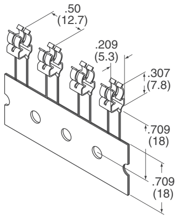

Specification:
- **Clip Material:** Phosphor/Bronze
- **Finish:** Tin-plated
- **Style:** Ear

Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Ammo Qty.	Pricing
F043CT-ND	.27	2.48	20.88	F043TB-ND	1,000	104.00

Microfuse or PICO II Fuseholder

Fuseholder will accept Littelfuse Microfuses and PICO II™ fuses (rated to 5 Amperes) with .025" (.64mm) diameter leads.
Electrical: Rated at 5 Amperes for any voltage up to 125V.
Molded Parts: White thermoplastic, Black panel mount
Terminals: Copper alloy
Ambient Temperature: -40°C ~ 100°C, Silver terminal plating

Fig. 1

(Silver Plated)

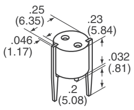

Vertical Shown

Fig. 2

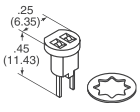

Panel Mount Push-On

Fig.	Mounting	Digi-Key Part No.	Price Each 1	100	250
1	Vertical	F060-ND•	2.21	1.54	1.37
1	Horizontal	F061-ND•	2.21	1.54	1.37
1	Vertical	F1475-ND†	2.29	1.59	1.42
2	Panel	F1474-ND	2.47	1.72	1.53

† Plating: Tin • UL Recognized

Fuse Clips

Fig. 1

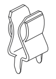

Fig. 2

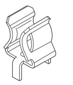

Fig. 3

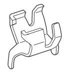

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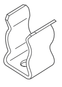

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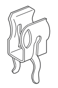

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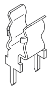

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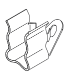

Fig. 8

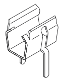

Fig.	Accepts Fuse Type	End Stops (Ears)	Lead Type	Clip Material	Finish	Digi-Key Part No.	Pricing 10	100	250	Littelfuse Part No.
1	3AG (.250" Diameter)	Yes	Straight	Spring Brass	Tin-Plated	F040-ND	1.95	14.63	32.50	01020071H
	3AG (.250" Diameter)	No	Straight	Spring Brass	Tin-Plated	F041-ND	1.98	14.85	33.00	01020074H
	3AG (.250" Diameter)	Yes	Straight	Beryllium Copper	Silver-Plated	F046-ND	5.70	42.75	95.00	01220083H
	3AG (.250" Diameter)	Yes	Straight	Beryllium Copper	Tin-Plated	F045-ND	4.71	35.33	78.50	01220088H
	3AG (.250" Diameter)	No	Straight	Beryllium Copper	Tin-Plated	F2777-ND	5.19	38.93	86.50	01220093H
2	3AG (.250" Diameter)	No	Angled-In	Spring Brass	Tin-Plated	F042-ND	2.94	22.05	49.00	01020078H
	3AG (.250" Diameter)	Yes	Angled-In	Spring Brass	Tin-Plated	F052-ND	2.94	22.05	49.00	01020079H
3	3AG (.250" Diameter)	Yes	Straight	Beryllium Copper	Silver-Plated	F048-ND	5.22	39.15	87.00	01220090N
4	3AG (.250" Diameter)	No	Rivet/Eyelet	Spring Brass	Nickel-Plated	F038-ND	1.98	14.85	33.00	01010002H
5	2AG/5 x 20mm	Yes	Straight	Spring Brass	Tin-Plated	F058-ND	1.98	14.85	33.00	01110501H
	2AG/5 x 20mm	Yes	Straight	Beryllium Copper	Tin-Plated	F044-ND	3.66	27.45	61.00	01110506H
6	5 x 20mm	Yes	Straight	Spring Brass	Tin-Plated	F063-ND	2.04	15.30	34.00	01000056H
7	3AG (.250" Diameter)	No	Rivet/Eyelet	Spring Brass	Nickel-Plated	F2776-ND	2.13	15.98	35.50	01010003H
8	3AG (.250" Diameter)	Yes	Straight	Spring Brass	Tin-Plated	F2775-ND	2.01	15.08	33.50	01000058M

Omni-Blok® Fuse Block

Specifications:
- **Clip/Terminals:** Tin-plated spring brass
- **Base:** Black thermoplastic glass reinforced UL 94V0 (except 3AG type which is grey)

Agency Approvals/Current Rating

Series	U.L. (Amps)	CSA (Amps)	VDE/Semko (Amps)
0254	10	10	N/A
354000	30	30	N/A
354060	20	20	N/A
354080	20	20	N/A
354101	15	15	N/A
0520	10	10	6.3

Fig. 1 Solder/Q.C.

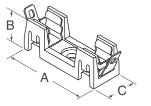

Fig. 2 P.C. Board Mount

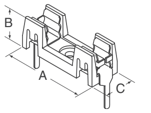

Termination Options

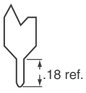

Terminal 1 Solder Type P.C. Board Mount

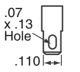

Terminal 2 .110" Solder/Q.C.

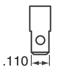

Terminal 3 .110" NEMA/Q.C.

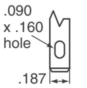

Terminal 4 .187" Solder/Q.C.

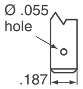

Terminal 5 .187" NEMA/Q.C.

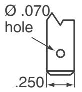

Terminal 6 .250" Q.C.

Fig.	Accepts Fuse Type	Terminal Type	Dimensions - Inch A	B	C	Digi-Key Part No.	Price Each 1	10	100	Littelfuse Part No.
					0254 Series (2AG)					
1	2AG	2	.70	.50	.35	F1470-ND	1.18	1.10	.82	02540001Z
1	2AG	3	.70	.50	.35	F1472-ND	1.18	1.10	.82	02540201Z
2	2AG	1	.70	.50	.35	F1471-ND	1.02	.95	.71	02540101Z
					0354 Series (3AG)					
1	1/4" 3AG	4	1.4	.53	.50	F1497-ND	.97	.90	.68	03540001ZXGY
1	1/4" 3AG	5	1.4	.53	.50	F1499-ND	.97	.90	.68	03540601ZXGY
1	1/4" 3AG	6	1.4	.53	.50	F1500-ND	.97	.90	.68	03540801ZXGY
2	1/4" 3AG	1	1.4	.53	.50	F1498-ND	1.02	.95	.71	03540101ZXGY
					0520 Series (5 x 20 mm)					
1	5 x 20mm	2	.92	.50	.40	F1503-ND	1.00	.93	.70	05200004Z
1	5 x 20mm	3	.92	.50	.40	F1502-ND	1.00	.93	.70	05200003Z
2	5 x 20mm	1	.92	.50	.40	F1504-ND	1.05	.98	.73	05200101Z

3AG and 5x20mm Traditional Panel Fuseholders

UL Recognized and Certified by CSA

QPL

Fig.1

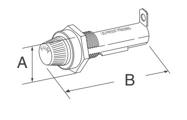

Fig. 2

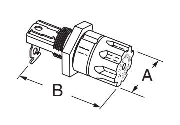

Fig. 3

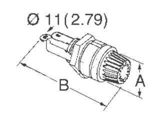

Fig. 4

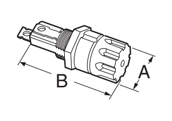

Fig. 5

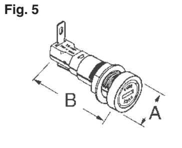

Fig. 6

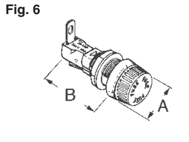

Fig. 7

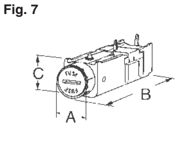

Fig. 8

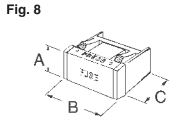

Terminal Orientation

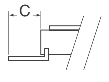

Straight Terminals

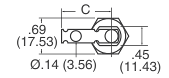

End View
Right Angle Terminals
.250" Solder Terminal Shown

Mounting Hole for
Straight & Right Angle

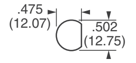

Fig.	Accepts Fuse Type	Terminal Orientation	Terminal Type	Knob Type	Accessories Included	Dimensions – Inch (mm)			Digi-Key Part No.	Price Each			Littelfuse Part No.
						A	B	C		1	10	100	
1	3AG (.250" Diameter)	Rt. Angle	Solder	Knurled	—	.69 (17.53)	1.78 (45.21)	.63 (16.00)	F007-ND	3.37	3.12	2.34	03420022H
2	3AG (.250" Diameter)	Rt. Angle	Solder	Fluted	—	.69 (17.53)	1.78 (45.21)	.63 (16.00)	F1478-ND	3.37	3.12	2.34	03420004H
2	3AG (.250" Diameter)	Rt. Angle	Solder	Fluted	Lockwasher	.69 (17.53)	1.78 (45.21)	.63 (16.00)	F004-ND	3.46	3.20	2.40	03420004HXL
2	3AG (.250" Diameter)	Rt. Angle	Solder	Fluted	Lockwasher/Drip Seal	.69 (17.53)	1.78 (45.21)	.63 (16.00)	F003-ND	3.64	3.36	2.52	03420004HXPL
2	3AG (.250" Diameter)	Rt. Angle	.250" Q.C.	Fluted	—	.69 (17.53)	1.78 (45.21)	.59 (14.99)	F012-ND	3.78	3.50	2.62	03420828H
3	3AG (.250" Diameter)	Straight	Solder Eyelet	Knurled	—	.69 (17.53)	2.01 (51.05)	—	F005-ND	3.21	2.97	2.23	03420012H
3	3AG (.250" Diameter)	Straight	Solder Eyelet	Fluted	—	.69 (17.53)	2.01 (51.05)	—	F006-ND	3.21	2.97	2.23	03420014H
4	3AG (.250" Diameter)	Straight	.187" Q.C.	Fluted	—	.69 (17.53)	1.78 (45.21)	.30 (7.62)	F009-ND	3.60	3.33	2.50	03420038H
4	3AG (.250" Diameter)	Straight	.250" Q.C.	Fluted	—	.69 (17.53)	1.70 (43.18)	.40 (10.16)	F013-ND	3.96	3.66	2.75	03420838H
4	3AG (.250" Diameter)	Straight	.250" Q.C.	Knurled	—	.69 (17.53)	1.70 (43.18)	.40 (10.16)	F015-ND	3.96	3.66	2.75	03420858H
5	5 x 20 mm	Rt. Angle	.187" Solder/Q.C.	Screwdriver Slot	—	.65 (16.51)	1.66 (42.16)	.62 (15.75)	F053-ND	5.01	4.63	3.47	03450621H
6	5 x 20 mm	Rt. Angle	.187" Solder/Q.C.	Finger Grip	—	.65 (16.51)	1.66 (42.16)	.62 (15.75)	F054-ND	5.01	4.63	3.47	03450623H
7	3AG (.250" Diameter)	Rt. Angle	P.C. Board Pins	Screwdriver Slot	—	.49 (12.45)	1.77 (44.96)	.48 (12.19)	F055-ND	3.47	3.21	2.41	03450101H
7	3AG (.250" Diameter)	—	—	Screwdriver Slot	Replace. Knob for F055	—	—	—	F1482-ND	1.21	1.12	.84	03450101HX020
7	5 x 20 mm	Rt Angle	P.C. Board Pins	Screwdriver Slot	—	.49 (12.45)	1.77 (44.96)	.48 (12.19)	F056-ND	4.49	4.15	3.12	03450121H
8	3AG (.250" Diameter)	Straight	.250" Q.C.	Flip-Top	Spare Fuse Carrier	.75 (19.05)	1.50 (38.10)	1.04 (26.42)	F059-ND	4.37	4.04	3.03	03460877H
8	5 x 20 mm	Straight	.187" Q.C.	Flip-Top	Spare Fuse Carrier	.70 (17.78)	1.03 (26.16)	.94 (23.88)	F1477-ND	5.63	5.20	3.90	02860677H
8	2AG (.177" Diameter)	Straight	.110" Q.C.	Flip-Top	Spare Fuse Carrier	.61 (15.49)	.85 (21.59)	.87 (22.10)	F1476-ND	3.16	2.92	2.19	02860377H

International Shock-Safe Panel Mount Fuseholders

Designed to eliminate the possibility of electrical shock, as defined in IEC 60065 and 60127. Anti-tease feature eliminates circuit interruption when knob is accidentally depressed.

Fig. 1

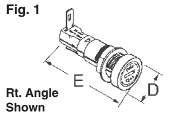

Rt. Angle Shown

Fig. 2

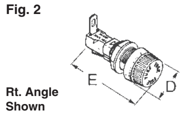

Rt. Angle Shown

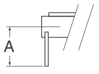

Rt. Angle

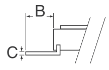

Straight

Terminal Orientation

.187"
Solder/Q.C.

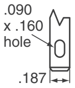

.250"
NEMA Q.C.

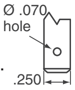

Terminal Type

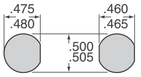

Mounting Holes

Fig.	Accepts Fuse Type	Terminal Orientation	Terminal Type	Body Profile	Knob Type	Dimensions – Inch (mm)					Digi-Key Part No.	Price Each			Littelfuse Part No.
						A	B	C	D	E		1	10	100	
1	2AG (.177" Dia.)	Straight	.187" Solder/Q.C.	Low	Screwdriver Slot (Blue)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	1.75 (44.45)	F1486-ND	3.93	3.63	2.73	03452LS2H
	3AG (.250" Dia.)	Rt. Angle	.187" Solder/Q.C.	Low	Screwdriver Slot (Gray)	.53 (13.46)	—	—	.60 (15.24)	1.75 (44.45)	F1490-ND	2.86	2.64	1.98	03453LS1H
	3AG (.250" Dia.)	Straight	.187" Solder/Q.C.	Low	Screwdriver Slot (Gray)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	1.75 (44.45)	F1492-ND	3.05	2.82	2.12	03453LS2H
	3AG (.250" Dia.)	Straight	.187" Solder/Q.C.	Low	Screwdriver Slot (Gray)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	1.75 (44.45)	F1493-ND**	3.47	3.21	2.41	03453LS2HXNP
	5 x 20mm (.197" Dia.)	Straight	.187" Solder/Q.C.	High	Screwdriver Slot (Black)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	1.75 (44.45)	F1494-ND	3.06	2.82	2.12	03455HS2H
2	2AG (.177" Dia.)	Straight	.187" Solder/Q.C.	Low	Fingergrip (Black)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	2.00 (50.80)	F1484-ND	3.93	3.63	2.73	03452LF2H
	3AG (.250" Dia.)	Straight	.187" Solder/Q.C.	Low	Fingergrip (Black)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	2.00 (50.80)	F1488-ND	2.86	2.64	1.98	03453LF2H
	3AG (.250" Dia.)	Straight	NEMA .250" Q.C.	Low	Fingergrip (Black)	—	.36 (9.14)	.032 (0.81)	.60 (15.24)	2.00 (50.80)	F1489-ND	3.05	2.82	2.12	03453LF8H

QC= Quick Connect ** Neoprene Washer Drip Proof Seal

Fuseholder Replacement Knobs for International Shock-Safe Fuse Holders

With the universal 345 Series fuseholder, the low profile body holders will accept any one of these replacement knobs.

Fig.	Digi-Key Part No.	Price Each			Littelfuse Part No.
		1	10	100	
1	F1483-ND	1.80	1.67	1.25	03452LF1HX020
2	F1495-ND	1.33	1.23	.93	03455LF1HX020
3	F1487-ND	1.01	.94	.71	03453LF1HX020
4	F1485-ND	1.80	1.67	1.25	03452LS1HX020
5	F1496-ND	1.33	1.23	.93	03455LS1HX020
6	F1491-ND	1.33	1.23	.93	03453LS1HX020

Fig. 1

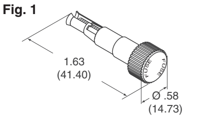

2AG (Black)
Finger Knob

Fig. 2

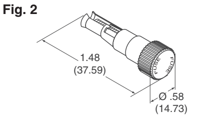

5 x 20mm (Black)
Finger Knob

Fig. 3

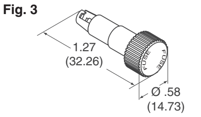

3AG (Black)
Finger Knob

Fig. 4

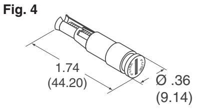

2AG (Blue)
Screwdriver Slot Knob

Fig. 5

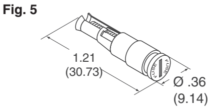

5 x 20mm (Black)
Screwdriver Slot Knob

Fig. 6

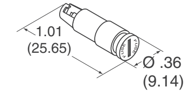

3AG (Gray)
Screwdriver Slot Knob

Littelfuse
Expertise Applied | Answers Delivered

TIP Telecom Duty Fuses
(Telecom Interface Protector)

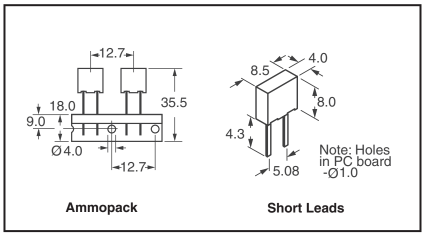

Electrical Characteristics:

Rated Current	Pre-arcing Rating 100%	Pre-arcing Rating 300%
350mA ~ 1.50A	2 hr. minimum	300ms...5s

Approvals: cULus Recognized: File No. E67006. Complies to EIA-IS-968; Telcordia GR-1089

Features:

• For UL60950/1950 3rd Edition applications • Highly defined cutoff times • Flame resistant encapsulated casing • Low internal resistance • Irreversible physical separation • Stable characteristics under varying temperatures

Maximum Fault Currents: ≤50A at 125VAC; ≤35A at 125VDC

Material:

• Base and Cap: Brown thermoplastic (polyamide PA 6.6), UL 94-V0; • Round Pins: Copper alloy, tin-plated

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	Price Each 10	Tape & Ammo-Pk. Qty.	Tape & Ammo-Pk. Pricing‡
TIP 385 Series						
.350	125	WK4560BK-ND	.58	.54	1,400	240.70/M
1.00	125	WK4563BK-ND	.58	.54	1,400	240.70/M
1.25	125	WK4564BK-ND	.58	.54	1,400	240.70/M
1.50	125	WK4565BK-ND	.58	.54	1,400	240.70/M

‡ For Tape and Ammo Pack number, change BK-ND to TB-ND.

Picofuse
Fast Acting 125V
275 Series

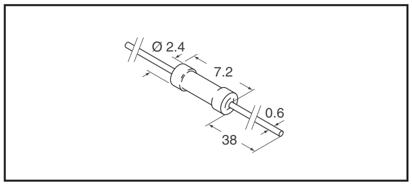

Applicable Standards: • UL 248-14 • CSA C22.2 No. 248.14

Approvals: • UL Listed: File No. E 67006 (125mA ~ 7A) • cUL Listed: File No. E 67006 (125mA ~ 7A) • UL Recognized: File No. E 67006 (10A) • CSA Certified: File No. 51378 (10A)

Features: • Subminiature • Axial Leads

Materials: • Body: Ceramic tube, Heat Shrink tube • Plug-on Caps: Copper alloy, tin plated

Operating Temperature: -25°C ~ 70°C (consider de-rating)

Electrical Characteristics:

Rated Current	Pre-arcing Rating 200%	Pre-arcing Rating 200% Wickmann Tested
125mA ~ 10.00A	<60s	<5s

Amp Rating (A)	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Tape & Reel Pricing† 2,500
275 Series					
.125	125	WK1081CT-ND	.48	.45	—
4.00	125	WK1092CT-ND	.36	.34	168.00/M
10.0	125	WK1095CT-ND	.36	.34	168.00/M

† For Tape and Reel part number, change CT-ND to TR-ND.

TE5 Fuseholder

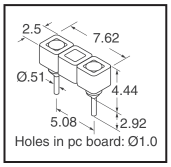

Material:

- Black thermoplastic UL 94-V0
- Terminals: Brass, tin-plated for soldering

Rated Values:
250V; 6.3A; UL Recognized

WK0009-ND **$1.22/1 $11.28/10 $84.60/100**

TE5 Sub-Miniature Fuses – UL 248-14

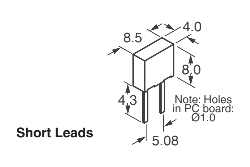

Approvals (395 and 396 Series):

cUL Listed, UL Listed for .050A ~ 6.30A. MITI approved for 1.00A ~ 5.00A

Features:

- Fast-acting and time-lag
- Material: Brown thermoplastic UL 94-V0
- Round Pins: Copper alloy, tin-plated
- Soldering Heat Resistance: 260°C, 10 seconds (IEC 60068-2-20)
- Plug-in holders available

Electrical Characteristics:

Series	Rated Current	Pre-arcing Rating 100%	Pre-arcing Rating 200%
395	**50mA ~ 6.3A**	> 4 hr.	< 5 sec.
396	**50mA ~ 6.3A**	> 4 hr.	< 60 sec.

Breaking Capacity: 100A at 125VAC

Amp Rating	Voltage Rating	Digi-Key Part No.	Bulk Price Each 1	Bulk Price Each 10	Bulk Price Each 100
Fast-Acting 395 Series					
.050	125	WK4322BK-ND◆	3.87	3.58	2.68
.063	125	WK4325BK-ND◆	2.48	2.30	1.72
.100	125	WK4327BK-ND◆	.91	.84	.63
.125	125	WK4328BK-ND◆	.91	.84	.63
.160	125	WK4330BK-ND◆	.91	.84	.63
.200	125	WK4334BK-ND◆	.91	.84	.63
.250	125	WK4335BK-ND◆•	.91	.84	.63
.315	125	WK4337BK-ND◆	.91	.84	.63
.400	125	WK4340BK-ND	.91	.84	.63
.500	125	WK4341BK-ND•	.91	.84	.63
.630	125	WK4343BK-ND	.91	.84	.63
.800	125	WK4346BK-ND◆	.91	.84	.63
1.00	125	WK4348BK-ND◆•	.91	.84	.63
1.25	125	WK4350BK-ND◆•	.91	.84	.63
1.60	125	WK4353BK-ND	.91	.84	.63
2.00	125	WK4357BK-ND◆•	.91	.84	.63
2.50	125	WK4358BK-ND◆•	.91	.84	.63
3.15	125	WK4324BK-ND◆	.91	.84	.63
4.00	125	WK4362BK-ND◆•	.91	.84	.63
5.00	125	WK4363BK-ND◆	.91	.84	.63
6.30	125	WK4366BK-ND◆•	.91	.84	.63
Time-Lag 396 Series					
.063	125	WK4425BK-ND	1.30	1.20	.90
.080	125	WK4426BK-ND	1.30	1.20	.90
.100	125	WK4427BK-ND◆	1.15	1.07	.80
.125	125	WK4428BK-ND◆	1.15	1.07	.80
.160	125	WK4430BK-ND	1.15	1.07	.80
.200	125	WK4434BK-ND◆•	.96	.89	.67
.250	125	WK4435BK-ND◆	.96	.89	.67
.315	125	WK4437BK-ND◆	.96	.89	.67
.400	125	WK4440BK-ND◆	.96	.89	.67
.500	125	WK4441BK-ND◆•	.96	.89	.67
.630	125	WK4443BK-ND◆	.96	.89	.67
.800	125	WK4446BK-ND◆•	.96	.89	.67
1.00	125	WK4448BK-ND◆•	.96	.89	.67
1.25	125	WK4450BK-ND◆	.96	.89	.67
1.60	125	WK4453BK-ND◆•	.96	.89	.67
2.00	125	WK4457BK-ND◆•	.96	.89	.67
2.50	125	WK4458BK-ND◆	.96	.89	.67
3.15	125	WK4424BK-ND◆•	.96	.89	.67
4.00	125	WK4462BK-ND◆•	.96	.89	.67
5.00	125	WK4463BK-ND◆•	.96	.89	.67
6.30	125	WK4466BK-ND◆	.96	.89	.67

◆ ***RoHS Compliant***

• **WK0117-KIT-ND *Digi-Key® TE5 Sub-Miniature Fuse Kit***
10 each of ***TE5 Sub-Miniature Fuses*** indicated and 20 each of ***TE5 Fuseholders*** **(WK0009-ND)**. **$143.81**

Wickmann® Brand Product

TR5 Sub-Miniature Fuses – IEC 60127-3

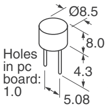

Short Leads

Approvals:

• **370 Series:** SEMKO Approved, cULus Recognized, CCC Approved (.050A ~ 5.00A), VDE Approved (.050A ~ 5.00A) Expert Report (6.30A), METI Approved (1.00A ~ 4.00A)

• **372 Series:** SEMKO Approved, cULus Recognized, CCC Approved (.050A ~ 6.30A), VDE Approved (.050A ~ 4.00A) Expert Report (5.00A, 6.30A), METI Approved (1.00A ~ 4.00A), Korean Approved (.050A ~ 6.30A)

• **382 Series:** SEMKO Approved and cULus Recognized (1.00A - 6.30A), CCC Approved (1.00A ~ 4.00A), VDE Approved (1.00A ~ 4.00A) Expert Report (5.00A, 6.30A), METI Approved (1.00A ~ 5.00A), Koren Approval (1.00A ~ 4.00A)

Material: • Base and Cap: Brown thermoplastic, Polyamide PA 6.6, UL 94V-0 • Round Pins: Copper alloy, tin-plated

Features: • Fast-acting and Time-lag • Soldering Heat Resistance: 260°C, 10 seconds (IEC 60068-2-20) • Plug-in holders available

Electrical Characteristics:

Pre-arcing Rating 150%	210%	275%	400%	1000%
Series 370 — 50mA ~ 6.30A				
>1 hr.	<30 min.	10ms ~ 3sec.	3 ~ 300ms	<20ms
Series 372 — 50mA ~ 6.30A				
>1 hr.	<2 min.	400ms ~ 10sec.	150ms ~ 3sec.	20 ~ 150ms
Series 382 — 1.00A ~ 6.30A				
>1 hr.	<2 min.	400ms ~ 10sec.	150ms ~ 3sec.	20 ~ 150ms

BREAKING CAPACITY: 370 and 372 Series: 35A at 250VAC for (.050A ~ 3.15A), 40A for (4.00A), 50A for (5.00A, 6.30A) **382 Series:** 100A at 250VAC (1.00A ~ 6.30A)

Amp Rating	Voltage Rating	Digi-Key Part No.	Bulk Price Each 1	Bulk Price Each 10	Bulk Price Each 100
Fast-Acting 370 Series (IEC 60127-3/III)					
.050	250	WK4922BK-ND◆	3.29	3.04	2.28
.063	250	WK4925BK-ND◆	3.29	3.04	2.28
.080	250	WK4926BK-ND◆	3.29	3.04	2.28
.100	250	WK4927BK-ND◆	.69	.64	.48
.125	250	WK4928BK-ND◆	.69	.64	.48
.160	250	WK4930BK-ND◆	.69	.64	.48
.200	250	WK4934BK-ND◆	.69	.64	.48
.250	250	WK4935BK-ND◆•	.69	.64	.48
.315	250	WK4937BK-ND◆	.69	.64	.48
.400	250	WK4940BK-ND◆	.69	.64	.48
.500	250	WK4941BK-ND◆	.69	.64	.48
.630	250	WK4943BK-ND◆	.69	.64	.48
.800	250	WK4946BK-ND	.69	.64	.48
1.00	250	WK4948BK-ND◆•	.69	.64	.48
1.25	250	WK4950BK-ND◆•	.69	.64	.48
1.60	250	WK4953BK-ND◆•	.69	.64	.48
2.00	250	WK4957BK-ND◆•	.69	.64	.48
2.50	250	WK4958BK-ND◆	.69	.64	.48
3.15	250	WK4924BK-ND◆	.69	.64	.48
4.00	250	WK4962BK-ND◆	.69	.64	.48
5.00	250	WK4963BK-ND◆	.69	.64	.48
6.30	250	WK4964BK-ND◆†	.69	.64	.48
Time-Lag 372 Series (IEC 60127-3/IV)					
.050	250	WK4222BK-ND◆	.92	.86	.64
.063	250	WK4225BK-ND◆	.92	.86	.64
.080	250	WK4226BK-ND◆	.75	.69	.52
.100	250	WK4227BK-ND◆	.75	.69	.52
.125	250	WK4228BK-ND◆	.75	.69	.52
.160	250	WK4230BK-ND◆•	.75	.69	.52
.200	250	WK4234BK-ND◆•	.75	.69	.52

◆ ***RoHS Compliant*** † Conducting Path minimum: 2mm² *(Continued)*

TR5 Sub-Miniature Fuses – IEC 60127-3 *(Cont.)*

Amp Rating	Voltage Rating	Digi-Key Part No.	Bulk Price Each 1	10	100
.250	250	WK4235BK-ND◆	.75	.69	.52
.315	250	WK4237BK-ND◆•	.66	.61	.46
.400	250	WK4240BK-ND◆	.66	.61	.46
.500	250	WK4241BK-ND◆•	.66	.61	.46
.630	250	WK4243BK-ND◆•	.66	.61	.46
.800	250	WK4246BK-ND◆•	.66	.61	.46
1.00	250	WK4248BK-ND◆•	.66	.61	.46
1.25	250	WK4250BK-ND◆	.66	.61	.46
1.60	250	WK4253BK-ND◆•	.66	.61	.46
2.00	250	WK4257BK-ND•	.66	.61	.46
2.50	250	WK4258BK-ND◆•	.66	.61	.46
3.15	250	WK4224BK-ND◆•	.66	.61	.46
4.00	250	WK4262BK-ND◆•	.66	.61	.46
5.00	250	WK4263BK-ND◆	.66	.61	.46
6.30	250	WK4264BK-ND◆†	.66	.61	.46
Time-Lag High Breaking 382 Series (IEC 60127-3/IV) — RoHS Compliant					
1.00	250	WK6207BK-ND	.78	.72	.54
2.00	250	WK6208BK-ND	.78	.72	.54
2.50	250	WK6209BK-ND	.78	.72	.54
3.15	250	WK6210BK-ND	.78	.72	.54
4.00	250	WK6211BK-ND	.78	.72	.54
5.00	250	WK6212BK-ND	.78	.72	.54
6.30	250	WK6213BK-ND†	.78	.72	.54

◆ *RoHS Compliant* † Conducting Path minimum: 2mm^2

- ***Digi-Key® TR5 Sub-Miniature Fuse IEC 60127-3 Kit*** 10 each of ***TR5 Sub-Miniature Fuses*** indicated and 15 each of ***TR5 Fuseholders*** (WK0001-ND)
WK0113-KIT-ND — *RoHS Compliant* $124.76

TR5 Sub-Miniature Fuses – UL 248-14

Approvals:

373 and 374 Series: UL Listed, CSA Certified Approved (.050A ~ 10A)

Material: • Base and cap: Brown thermoplastic UL 94-V0, insulated • Round Pins: Copper alloy, tin-plated

Features: • Fast-acting and Time-lag • Soldering Heat Resistance: 260°C, 10 seconds, IEC-60068-2-20 • Plug-in holders available

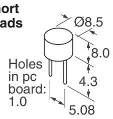

Electrical Characteristics:

Series	Rated Current	Pre-arcing Rating 100%	200%
373	**50mA ~ 10.A**	4 hr. minimum	5 sec. maximum
374	**50mA ~ 10.00A**	4 hr. minimum	60 sec. maximum

Amp Rating	Voltage Rating	Digi-Key Part No.	Bulk Price Each 1	10	100
Fast-Acting 373 Series					
.050	250	WK3022BK-ND◆	3.91	3.62	2.71
.063	250	WK3025BK-ND◆	3.91	3.62	2.71
.080	250	WK3026BK-ND◆	3.91	3.62	2.71
.100	250	WK3027BK-ND◆	.87	.81	.61
.125	250	WK3028BK-ND	.87	.81	.61
.160	250	WK3030BK-ND	.87	.81	.61
.200	250	WK3034BK-ND◆	.87	.81	.61
.250	250	WK3035BK-ND◆•	.87	.81	.61
.315	250	WK3037BK-ND	.87	.81	.61
.400	250	WK3040BK-ND	.87	.81	.61
.500	250	WK3041BK-ND◆•	.87	.81	.61
.630	250	WK3043BK-ND◆	.87	.81	.61
.800	250	WK3046BK-ND◆	.87	.81	.61
1.00	250	WK3048BK-ND◆•	.87	.81	.61
1.25	250	WK3050BK-ND◆•	.87	.81	.61
1.60	250	WK3053BK-ND◆	.87	.81	.61
2.00	250	WK3057BK-ND◆•	.87	.81	.61
2.50	250	WK3058BK-ND◆•	.87	.81	.61
3.15	250	WK3024BK-ND◆	.87	.81	.61
4.00	250	WK3062BK-ND◆•	.87	.81	.61
5.00	250	WK3063BK-ND◆	.87	.81	.61
6.30	250	WK3066BK-ND◆•	.87	.81	.61
10.00	250	WK3071BK-ND◆	.87	.81	.61

Amp Rating	Voltage Rating	Digi-Key Part No.	Bulk Price Each 1	10	100
Time-Lag 374 Series — RoHS Compliant					
.050	250	WK4022BK-ND	1.34	1.24	.93
.063	250	WK4025BK-ND	1.34	1.24	.93
.080	250	WK4026BK-ND	1.25	1.16	.87
.100	250	WK4027BK-ND	1.25	1.16	.87
.125	250	WK4028BK-ND	1.06	.98	.74
.160	250	WK4030BK-ND	1.06	.98	.74
.200	250	WK4034BK-ND•	1.06	.98	.74
.250	250	WK4035BK-ND	.96	.89	.67
.315	250	WK4037BK-ND	.96	.89	.67
.400	250	WK4040BK-ND	.87	.81	.61
.500	250	WK4041BK-ND•	.87	.81	.61
.630	250	WK4043BK-ND	.87	.81	.61
.800	250	WK4046BK-ND•	.87	.81	.61
1.00	250	WK4048BK-ND•	.87	.81	.61
1.25	250	WK4050BK-ND	.87	.81	.61
1.60	250	WK4053BK-ND•	.87	.81	.61
2.00	250	WK4057BK-ND•	.87	.81	.61
2.50	250	WK4058BK-ND	.87	.81	.61
3.15	250	WK4024BK-ND•	.87	.81	.61
4.00	250	WK4062BK-ND•	.87	.81	.61
5.00	250	WK4063BK-ND•	.87	.81	.61
6.30	250	WK4066BK-ND	.87	.81	.61
10.00	250	WK4071BK-ND	.96	.89	.67

◆ *RoHS Compliant*

- ***Digi-Key® TR5 Sub-Miniature Fuse UL-248-14 Kit*** 10 each of ***TR5 Sub-Miniature Fuses*** indicated and 15 each of ***TR5 Fuseholders*** (WK0001-ND)
WK0116-KIT-ND — *RoHS Compliant* $142.91

TR5 Panel Mount Fuseholder

Material:

- Holder: Black thermoplastic UL 94V-0
- Polyamide PA
- Metal Parts: Copper alloy, solderable tinned
- Cap: Transparent thermoplastic polycarbonate PC, UL 94V-0

Panel Mount Holder

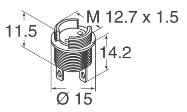

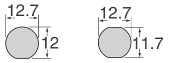

Panel Alternatives

PC Mount Holder

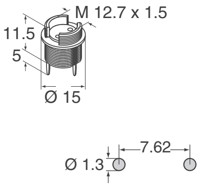

Transparent Cap

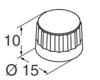

Description	Digi-Key Part No.	Price Each 1	10	Wickmann Part No.
Panel Mount Holder	WK6224-ND	1.15	1.07	5700000000
PC Mount Holder	WK6225-ND	.94	.87	5710000000
Transparent Cap	WK6226-ND	.44	.41	5750000000

TR5 / TE5 SMT Fuseholder

Material: • Black thermoplastic UL 94-V0 • Terminals: Brass, tin-plated • UL Recognized

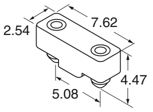

Amp Rating	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing‡ 1,500
6.3	250	WK0010CT-ND	1.78	1.64	687.30/M

‡ For Tape and Reel Part Number, change CT-ND to TR-ND.

TR5 Fuseholder

Material: • Thermoplastic, UL 94V-0 • Polyester PCT • Terminals: brass, tin-plated

Rated Values: 250V; 6.3A

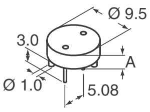

Height (A) mm	Digi-Key Part No.	Price Each 1	10	Wickmann Part No.
3.0	WK0001-ND	.78	.72	5600000131
4.3	WK6235-ND	.63	.59	5600000100

UL / CSA Fuses Metric (5x20mm) — UL 248-14

Equivalent to:

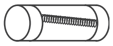

198 Series – Glass

Wickmann	Littelfuse	Bussmann
198 Series	239	GMD

Approvals:

198 Series:
UL listed, CSA certified, .250A ~ 3.50A

Electrical Characteristics:

Series	Rated Current	Pre-arcing Rating 135%	200%
198	**.250A ~ 2.50A**	**< 1 hr**	**5-120 sec.**
	3.50A	**< 1 hr**	**12-120 sec.**

Breaking Capacity:

198 Series: 35A at 250VAC (.250A ~ .800A); 100A at 250VAC (2.50A); 10,000A at 125VAC (.250A)

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
Time-Lag 198 Series					
.250	250	WK4835-ND	.42	.39	.30
.400	250	WK4840-ND	.29	.27	.21

Wickmann®
Brand Product

IEC 60127-2 Metric (5x20mm) Fuses

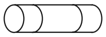

194 Series – Ceramic

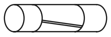

195 Series – Glass

Approvals:

194 Series: SEMKO Approved, VDE Approved (0.200A ~ 6.30A), cULus Recognized (0.315A ~ 16A), CCC Approved (1.00A ~ 6.30A)
195 Series: SEMKO Approved, VDE Approved, BSI Approved, IMQ Approved, CCC Approved (0.032A ~ 6.30A), cULus Recognized (0.032A ~ 12.50A), METI Approved (1.00A ~ 5.00A)

Electrical Characteristics:

Series	Rated Current	Pre-arcing Rating 150%	210%	275%	400%	1000%
194	**0.200 ~ 2.50A**	> 1 hr.	< 30 min.	10ms ~ 2 sec.	3 ~ 300 ms	< 20 ms
195	**0.040 ~ .080A**	> 1 hr.	< 2 min.	200ms ~ 10 sec.	40ms ~ 3 sec.	10 ~ 300 ms
	.125 ~ 2.50A	> 1 hr.	< 2 min.	600ms ~ 10 sec.	150 ms ~ 3 sec.	20 ~ 300 ms

BREAKING CAPACITY: 194 Series: 1500A at 250VAC **195 Series:** 35A at 250VAC for (.040 ~ 2.50A)

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
Fast Acting, High Breaking Capacity 194 Series					
.315	250	WK2037-ND	.96	.89	.67
1.60	250	WK2053-ND	.54	.50	.38
Time-Lag 195 Series					
.080	250	WK5026-ND	.84	.78	.59
PC Board Mount (5x20mm) — RoHS Compliant					
—	—	WK0011-ND	.35	.33	.25

**Wickmann®
Brand Product**

Shock-Safe Fuseholders

Shock-Safe fuseholders for 1/4 x 1-1/4" (3AG) or 5 x 20mm fuses built according to UL 512 and IEC 60127-6 and CSA C22.2 No. 39 • VDE, SEMKO rated for use up to 250 Volts. • Casing made of black thermoplastic with UL 94V-0 ratings. Injection-molded terminals prevent intermittent connections. • PC Mount versions include additional pin(s) for added stability from torsional forces seen during fuse removal. • Panel Mount versions have combination 3/16" quick-connect/solderable tabs. • Body Material: White thermoplastic, UL 94V-0 rated (Wickmann Part No. 64900001009 only)

VERTICAL FUSE HOLDERS — NO CAPS

Fig. 1 — 3AG

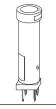

Fig. 2 — 5 x 20mm

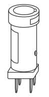

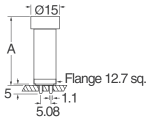

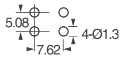

PCB Layout

HORIZONTAL FUSE HOLDERS — NO CAPS

Fig. 3 — 3AG

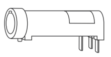

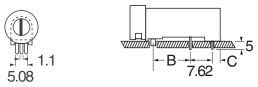

Fig. 4 — 5 x 20mm

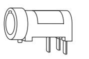

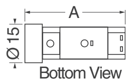

Bottom View

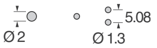

PCB Layout

PANEL MOUNT FUSE HOLDERS — NO CAPS

Fig. 5 — 3AG

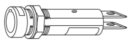

Fig. 6 — 5 x 20mm

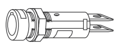

FUSE CAPS

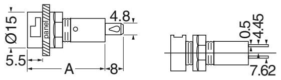

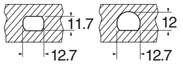

Panel Cutout (Alternatives)

Fig. 7 — 6.3 x 32mm

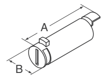

Fig. 8 — 5 x 20mm

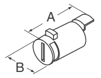

PC MOUNT FUSE HOLDERS

Fig. 9 – 5 x 20mm

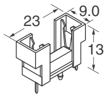

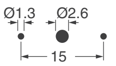

Fig.	Description	Dimensions – mm A	B	C	Rated Current Amps VDE	UL/CSA (Amps)	Digi-Key Part No.	Price Each 1	10	100	Wickmann Part No.
1	Vertical 3AG (6.3 x 32mm) Holder	46.3	—	—	6.3	16	WK6229-ND•	1.43	1.32	.99	81100000005
2	Vertical (5 x 20mm) Holder	32.6	—	—	6.3	16	WK6233-ND•	1.11	1.03	.77	83100000005
3	Horizontal 3AG (6.3 x 32mm) Holder	45.7	27.94	1.90	6.3	16	WK6228-ND•	1.87	1.73	1.30	81000000005
4	Horizontal (5 x 20mm) Holder	32.0	12.7	1.80	6.3	16	WK6232-ND•	1.07	.99	.75	83000000005
5	Panel Mount 3AG (6.3 x 32mm) Holder	45.7	—	—	10	16	WK6227-ND•	1.53	1.42	1.07	80000000005
6	Panel Mount (5 x 20mm) Holder	32.0	—	—	6.3	16	WK6231-ND•	1.23	1.14	.86	82000000005
7	3AG (6.3 x 32mm) Fuse Cap	33.8	9.20	—	—	—	WK6230-ND•	1.12	1.04	.78	81600000005
8	(5 x 20mm) Fuse Cap	20.6	9.20	—	—	—	WK6234-ND•	.79	.73	.55	83500000005
9	PC Mount (5 x 20mm) Holder	—	—	—	6.3	—	WK0011-ND	.35	.33	.25	64900001009
Digi-Key® Fuseholder Kit 1 each of WK6233-ND and WK6234-ND combined in a single bag					—	—	WK-KIT-ND	2.89	2.66	2.24	—

• Fuse Cap and Holder are sold separate

VISHAY Beyschlag

MFU Series Thin Film Chip Fuses

0402, 0603, 0805 and 1206 Sizes

Applications: • Information technology • Telecommunications • Industrial electronics • Audio/video electronics • Automotive electronics
Features: • Advanced thin film technology • Very quick acting fuse characteristics • Outstanding stability of fusing characteristics • Standard metric SMD sizes • Compatible with lead-free and lead containing soldering processes

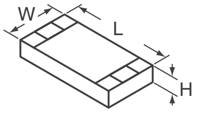

Type	Dimensions (mm) H	L	W
MFU 0402	0.32 ± 0.05	1.0 ± 0.05	0.5 ± 0.05
MFU 0603	0.45 + 0.1/-0.05	1.55 ± 0.05	0.85 ± 0.1
MFU 0805	0.45 + 0.1/-0.05	2.0 ± 0.1	1.25 ± 0.15
MFU 1206	0.55 ± 0.1	3.2 + 0.1/-0.2	1.6 ± 0.15

Size	Voltage Rating (V)	Amp Rating (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel‡ Pricing 1,000	Vishay Part No.
0402	32	.5	MFU0402.50CT-ND	.65	.60	.46	289.00	MFU0402FF00500E100
		.63	MFU0402.63CT-ND	.65	.60	.46	289.00	MFU0402FF00630E100
		.75	MFU0402.75CT-ND	.65	.60	.46	289.00	MFU0402FF00750E100
		.8	MFU0402.80CT-ND	.65	.60	.46	289.00	MFU0402FF00800E100
		1	MFU04021.00CT-ND	.49	.46	.34	216.00	MFU0402FF01000E100
		1.25	MFU04021.25CT-ND	.49	.46	.34	216.00	MFU0402FF01250E100
		1.5	MFU04021.50CT-ND	.49	.46	.34	216.00	MFU0402FF01500E100
		1.6	MFU04021.60CT-ND	.49	.46	.34	216.00	MFU0402FF01600E100
		1.75	MFU04021.75CT-ND	.49	.46	.34	216.00	MFU0402FF01750E100
		2	MFU04022.00CT-ND	.49	.46	.34	216.00	MFU0402FF02000E100
0603	32	.5	MFU0603.50CT-ND	.47	.44	.33	211.00	MFU0603FF00500P100
		.63	MFU0603.63CT-ND	.47	.44	.33	208.00	MFU0603FF00630P100
		.75	MFU0603.75CT-ND	.47	.44	.33	208.00	MFU0603FF00750P100
		.8	MFU0603.80CT-ND	.47	.44	.33	208.00	MFU0603FF00800P100
		1	MFU06031.00CT-ND	.35	.33	.25	156.00	MFU0603FF01000P100
		1.25	MFU06031.25CT-ND	.35	.33	.25	156.00	MFU0603FF01250P100
		1.5	MFU06031.50CT-ND	.35	.33	.25	156.00	MFU0603FF01500P100
		1.6	MFU06031.60CT-ND	.35	.33	.25	156.00	MFU0603FF01600P100
		1.75	MFU06031.75CT-ND	.35	.33	.25	156.00	MFU0603FF01750P100
		2	MFU06032.00CT-ND	.35	.33	.25	156.00	MFU0603FF02000P100
		2.5	MFU06032.50CT-ND	.35	.33	.25	156.00	MFU0603FF02500P100
		3	MFU06033.00CT-ND	.35	.33	.25	156.00	MFU0603FF03000P100
		3.15	MFU06033.15CT-ND	.35	.33	.25	156.00	MFU0603FF03150P100
		3.5	MFU06033.50CT-ND	.35	.33	.25	156.00	MFU0603FF03500P100
		4	MFU06034.00CT-ND	.35	.33	.25	156.00	MFU0603FF04000P100
0805	32	.5	MFU0805.50CT-ND	.63	.59	.45	281.00	MFU0805FF00500P100
		.63	MFU0805.63CT-ND	.63	.59	.45	281.00	MFU0805FF00630P100
		.75	MFU0805.75CT-ND	.63	.59	.45	281.00	MFU0805FF00750P100
0805	32	.8	MFU0805.80CT-ND	.63	.59	.45	281.00	MFU0805FF00800P100
		1	MFU08051.00CT-ND	.47	.45	.34	211.00	MFU0805FF01000P100
		1.25	MFU08051.25CT-ND	.47	.45	.34	211.00	MFU0805FF01250P100
		1.5	MFU08051.50CT-ND	.47	.45	.34	211.00	MFU0805FF01500P100
		1.6	MFU08051.60CT-ND	.47	.45	.34	211.00	MFU0805FF01600P100
		1.75	MFU08051.75CT-ND	.47	.45	.34	211.00	MFU0805FF01750P100
		2	MFU08052.00CT-ND	.47	.45	.34	211.00	MFU0805FF02000P100
		2.5	MFU08052.50CT-ND	.47	.45	.34	211.00	MFU0805FF02500P100
		3	MFU08053.00CT-ND	.47	.45	.34	211.00	MFU0805FF03000P100
		3.15	MFU08053.15CT-ND	.47	.45	.34	211.00	MFU0805FF03150P100
		3.5	MFU08053.50CT-ND	.47	.45	.34	211.00	MFU0805FF03500P100
		4	MFU08054.00CT-ND	.47	.45	.34	211.00	MFU0805FF04000P100
1206	63	.5	MFU1206.50CT-ND	.77	.72	.54	344.00	MFU1206FF00500P100
		.63	MFU1206.63CT-ND	.77	.72	.54	344.00	MFU1206FF00630P100
		.75	MFU1206.75CT-ND	.77	.72	.54	344.00	MFU1206FF00750P100
		.8	MFU1206.80CT-ND	.77	.72	.54	344.00	MFU1206FF00800P100
		1	MFU12061.00CT-ND	.58	.54	.41	257.00	MFU1206FF01000P100
		1.25	MFU12061.25CT-ND	.58	.54	.41	257.00	MFU1206FF01250P100
		1.5	MFU12061.50CT-ND	.58	.54	.41	257.00	MFU1206FF01500P100
		1.6	MFU12061.60CT-ND	.58	.54	.41	257.00	MFU1206FF01600P100
		1.75	MFU12061.75CT-ND	.58	.54	.41	257.00	MFU1206FF01750P100
		2	MFU12062.00CT-ND	.58	.54	.41	257.00	MFU1206FF02000P100
		2.5	MFU12062.50CT-ND	.58	.54	.41	257.00	MFU1206FF02500P100
		3	MFU12063.00CT-ND	.58	.54	.41	257.00	MFU1206FF03000P100
		3.15	MFU12063.15CT-ND	.58	.54	.41	257.00	MFU1206FF03150P100
		3.5	MFU12063.50CT-ND	.58	.54	.41	257.00	MFU1206FF03500P100
		4	MFU12064.00CT-ND	.58	.54	.41	257.00	MFU1206FF04000P100
		5	MFU12065.00CT-ND	.58	.54	.41	257.00	MFU1206FF05000P100

‡ For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

COOPER
Bussmann
Productivity Through Protection

Polymer ESD Suppressors
TR Series

Fig. 1 – 0603

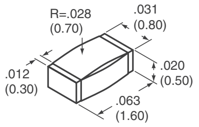

Fig. 2 – (4)1206*

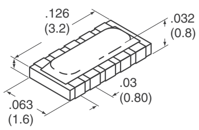

Features:
• Exceeds testing requirements outlined in IEC 61000-4-2 • Extremely low capacitance • Very low leakage current • Fast response time • Bi-directional • Lead free solder termination

Part Ratings and Characteristics	Units	Digi-Key Part No. 283-2535-x-ND 0603 Pkg. Size	283-2536-x-ND (4)1206 Pkg. Size
Continuous Operating Voltage	VDC	24 (Maximum)	12 (Typical) *(1)*
Clamping Voltage *(3)*	V Typical	35 (60 Maximum)	35 (60 Maximum)
Trigger Voltage *(4)*	V Typical	125	150 (300 Maximum)
ESD Threat Voltage Capability *(5)*	kV Typical	8	8
Capacitance (@ 1kHz – 1.8GHz)	pF Typical	0.15	0.15
Leakage Current (@ 12VDC)	nA Typical	<0.1	<0.1
Peak Current *(3)*	A Typical	30 (45 Maximum)	30 (45 Maximum)
Operating Temperature Range	°C	-56 ~ 105	-40 ~ 85
ESD Pulse With–stand *(3)*	# Pulses Typical *(2)*	>500	>500

Note (1): The product is 100% tested for 30VDC operating voltage at 25°C. Continuous operation with higher than 12VDC under extreme temperature and humidity may cause increasing leakage current and/or shifting device resistance. However, even under severe environmental test, characteristics of the device did not change up to 12VDC operation.
Note (2): Some shifting in characteristics may occur when tested over several hundred ESD pulses at very rapid rate of 1 pulse per second or faster.
Note (3): Per IEC 61000-4-2, 30A @ 8kV, level 4, clamp measurement made 30ns after initiation of pulse, all tests in contact discharge mode.
Note (4): Trigger measurement made using Transmission Line Pulse (TLP) method.
Note (5): PolySurg devices are capable of withstanding up to a 15kV, 45A ESD pulse. Device ratings are given at 8kV per Note 2, unless otherwise specified.

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 5,000
1	283-2535-1-ND	.38	.35	.29	283-2535-2-ND	137.00/M
2	283-2536-1-ND*	1.13	1.04	.87	283-2536-2-ND*	411.00/M

* Four individual suppressors

Polymer ESD Suppressors
MLP Series

Features:
• Ultra low capacitance - Ideal for high speed data applications • Low profile design for board space savings • Low leakage current reduces power consumption

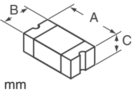

Dim. in mm

Part No.	Pkg. Size	Dim. A	Dim. B	Dim. C
283-2792-x	0402	1.07	0.53	0.33
283-2791-x	0603	1.6	0.81	0.53

Part Ratings and Characteristics	
Rated Voltage	30VDC (Maximum)
Clamping Voltage *(1)*	35V Typical
Trigger Voltage *(2)*	300V Typical
Capacitance (@ 1MHz)	0.05 pF Typical (.15pF maximum)
Attenuation Change (0-6GHz)	-0.2dB Typical
Leakage Current (@ 12VDC)	<0.1 nA Typical
Operating Temp. Range	-55°C ~ 125°C
ESD Pulse Withstand *(1)*	>1000 Pulses Typical
ESD Capability IEC61000-4-2 Direct IEC61000-4-2 Air	 8kV Typical 15kV Typical

Note (1): Per IEC61000-4-2, Level 4 waveform (8kV direct, 30A) measured 30ns after initiation of pulse
Note (2): Trigger measurement made using Transmission Line Pulse (TLP) method.

Package Size	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing
0402	283-2792-1-ND	.23	2.07	17.40	10,000	75.00/M
0603	283-2791-1-ND	.38	3.45	29.00	5,000	137.00/M

† For Tape and Reel part number, change 1-ND to 2-ND.

SMD 0603 Chip Fuses
0603FA-R Series, Fast Acting

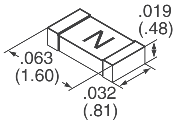

Construction:

• Rugged ceramic and glass construction

Soldering Method:

• Wave Solder: 260°C, 10 second maximum • Infrared Reflow: 260°C, 30 second maximum

Agency Information:

• UL Recognition Card: JDYX2, E19180 • CSA Component Acceptance Card: 053787 C 000, Class Number 1422 30

Time Current Characteristics:

% of Amp Rating: 100% - 4 hours minimum; 200% - 60 seconds maximum

• Interrupting Rating: 50A (1.25 - 5 Current; 35A)

Amp-erage	Rated Voltage DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 5,000
250mA	50	283-2552-1-ND	1.07	.98	.83	389.00/M
500mA	32	283-2554-1-ND	1.01	.94	.79	370.00/M
1A	32	283-2556-1-ND	1.01	.94	.79	370.00/M
1.5A	32	283-2558-1-ND	.90	.83	.70	329.00/M
2A	32	283-2559-1-ND	.90	.83	.70	329.00/M
2.5A	32	283-2560-1-ND	.90	.83	.70	329.00/M
3A	32	283-2561-1-ND	.90	.83	.70	329.00/M
3.5A	32	283-2562-1-ND	.90	.83	.70	329.00/M
4A	32	283-2563-1-ND	.90	.83	.70	329.00/M
5A	32	283-2564-1-ND	.90	.83	.70	329.00/M

† For Tape and Reel part number, change 1-ND to 2-ND.

SMD 1206 Chip Fuses
3216FF-R Series, Fast Acting

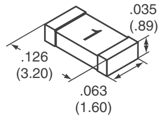

Soldering Method:

• Wave Immersion: 260°C, 10 seconds maximum • Infrared Reflow: 260°C, 30 seconds maximum

Agency Information:

• UL Recognition: JDYX2/E19180 • CSA Component Acceptance: 053787 C 000, Class Number 1422 30

Time Current Characteristics:

% of Amp Rating: 100% - 4 hours minimum (250mA- 7A); 200% - 60 seconds maximum (1.25A- 3A); 250% - 5 seconds maximum (250mA- 3A); 350% - 1 second maximum (4A - 7A) - 5 second maximum (15A -20A) Interrupting Rating: 50A

Amp-erage	Rated Voltage AC/DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 3,000
250mA	32/63	283-2537-1-ND	.95	.88	.74	347.00/M
375mA	32/63	283-2538-1-ND	.95	.88	.74	347.00/M
500mA	32/63	283-2539-1-ND	.95	.88	.74	347.00/M
750mA	32/63	283-2540-1-ND	.95	.88	.74	347.00/M
1A	32/63	283-2541-1-ND	.95	.88	.74	347.00/M
1.25A	32/63	283-2542-1-ND	.95	.88	.74	347.00/M
1.5A	32/63	283-2543-1-ND	.95	.88	.74	347.00/M
2A	32/63	283-2544-1-ND	.95	.88	.74	347.00/M
2.5A	32/63	283-2545-1-ND	.95	.88	.74	347.00/M
3A	32/63	283-2546-1-ND	.95	.88	.74	347.00/M
4A	32/32	283-2547-1-ND	.95	.88	.74	347.00/M
4.5A	32/32	283-2548-1-ND	.95	.88	.74	347.00/M
5A	32/32	283-2549-1-ND	.95	.88	.74	347.00/M
6.5A	32/32	283-2550-1-ND	.95	.88	.74	347.00/M
7A	32/32	283-2551-1-ND	.95	.88	.74	347.00/M
15A	24/24	283-2793-1-ND	1.31	1.21	1.02	480.00/M
20A	24/24	283-2794-1-ND	1.31	1.21	1.02	480.00/M

† For Tape and Reel part number, change 1-ND to 2-ND.

SMD 1206 Chip Fuses
3216TD-R Series, Time Delay

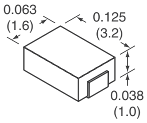

Soldering Method:
• Wave Immersion: 260°C, 10 seconds maximum • Infrared Reflow: 260°C, 30 seconds maximum • Hand Solder: 350°C, 3 seconds maximum
Agency Information:
UL approval for USA and Canada (1A thru 7A); File E19180, Volume 13
Electrical Characteristics:
% of Amp Rating: 100% - 4 hours minimum; 200% - 1 second minimum, 120 second maximum; 300% - 0.05 second minimum, 3 second maximum; 800% - 0.002 second minimum, 0.05 second maximum

Amp-erage	Rated Voltage AC/DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 2,500
1A	63/63	283-2795-1-ND	1.13	1.04	.87	411.00/M
1.5A	32/32	283-2796-1-ND	1.13	1.04	.87	411.00/M
2A	32/32	283-2797-1-ND	1.13	1.04	.87	411.00/M
2.5A	32/32	283-2798-1-ND	1.13	1.04	.87	411.00/M
3A	32/32	283-2799-1-ND	1.13	1.04	.87	411.00/M
4A	32/32	283-2800-1-ND	1.13	1.04	.87	411.00/M
5A	32/32	283-2801-1-ND	1.13	1.04	.87	411.00/M
6.3A	32/32	283-2802-1-ND	1.13	1.04	.87	411.00/M
7A	32/32	283-2803-1-ND	1.13	1.04	.87	411.00/M
10A	32/32	283-2804-1-ND	1.69	1.56	1.31	617.00/M
12A	32/32	283-2805-1-ND	1.69	1.56	1.31	617.00/M

† For Tape and Reel part number, change 1-ND to 2-ND.

Telecom Circuit Protectors
TCP Series

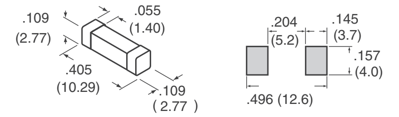

Features: • Allows compliance with telecom regulatory standards including Bellcore GR 1089 UL 1950/60950 and FCC part 68. Application circuit testing is recommended. • Eliminates the need for a current limiting resistor.
Soldering Method: • Wave Immersion: 260°C, 3 seconds maximum • Infrared: 240°C, 30 seconds maximum
Agency Information: • UL Recognition Card: JDYX2/E19180 • CSA Component Certification Record and Class No.: 053787C000, 1422 30
Lightning Surge Specifications: • TCP 500mA Tested: FCC 47 Part 68; Metallic Type A and Longitudinal Type B • TCP 1.25A Tested: FCC 47 Part 68; Metallic Type B and Longitudinal Type A, and Bellcore GR-1089-CORE; First Level Lightning

Amp Rate	Voltage Rating	Part Mark-ing	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 2,500
0.5	250VAC	FR	283-2533-1-ND	1.38	1.27	1.07	503.00/M
1.25	250VAC	JR	283-2534-1-ND	1.38	1.27	1.07	503.00/M

† For Tape and Reel part number, change 1-ND to 2-ND.

Brick Fuses — 6125FA Series

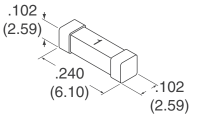

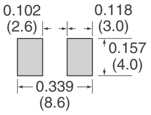

Features: • Environmentally rugged, complies with the EIA-IS-722 Standard • Solder Immersion Compatible • Wire-in-air design
Soldering Method: • Wave Solder: 260°C, 10 seconds maximum (MIL-STD-202, Method 210) • Infrared Reflow: 260°C, 30 second maximum
Agency Information: • UL Listed Guide and File Numbers (250mA-12A): JDYX & E195337 • UL Recognized Guide and File Numbers (15A): JDYX2 & E195337 • CSA Component Acceptance: 053787 C 000 & Class No: 1422 30
Electrical Characteristics: % of Amp Rating: 100% – 4 hours minimum, 200% – 5 seconds maximum Voltage Rating: 125VAC (250mA – 12A), 125VDC (250mA – 7A), 86VDC (250mA – 15A)

Amp-erage	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 5,000
250mA	283-2521-1-ND	1.05	.97	.82	283-2521-2-ND	384.00/M
500mA	283-2522-1-ND	1.05	.97	.82	283-2522-2-ND	384.00/M
750mA	283-2523-1-ND	1.05	.97	.82	283-2523-2-ND	384.00/M
1A	283-2524-1-ND	1.05	.97	.82	283-2524-2-ND	384.00/M
2A	283-2525-1-ND	1.05	.97	.82	283-2525-2-ND	384.00/M
3A	283-2526-1-ND	1.05	.97	.82	283-2526-2-ND	384.00/M
4A	283-2527-1-ND	1.05	.97	.82	283-2527-2-ND	384.00/M
5A	283-2528-1-ND	1.05	.97	.82	283-2528-2-ND	384.00/M
7A	283-2529-1-ND	1.05	.97	.82	283-2529-2-ND	384.00/M
10A	283-2530-1-ND	1.05	.97	.82	283-2530-2-ND	384.00/M
12A	283-2531-1-ND	1.05	.97	.82	283-2531-2-ND	384.00/M
15A	283-2532-1-ND	1.05	.97	.82	283-2532-2-ND	384.00/M

COOPER Bussmann Productivity Through Protection™

PC-TRON® Subminiature Fuses

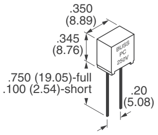

Characteristics: • Offers short-circuit performance which until now could only be found in much larger size glass tube fuses. At 250VAC, the 1/2 to 3 amp PC-Tron can safely interrupt 50 amperes; at 125VAC the 1/2 to 5 amp versions can interrupt 10,000 amperes. This makes the PC-Tron subminiature fuse ideal for line-side protection of power supplies. **Time Current:** • Carry 100% of rating for 4 hours minimum; open at 200% of rating in 10 seconds maximum **Construction Material:** • Body: High temperature plastic • Leads: Tin plated copper **Agency Approvals:** • UL Recognized and CSA Certified

Current Rating	Rated Voltage AC/DC	Digi-Key Part No.	Price Each 1	10	100
PCB-R Series - Full Lead Length — RoHS Compliant					
1/2A	250/450	283-2757-ND	2.24	2.14	1.56
1A	250/450	283-2756-ND	2.24	2.14	1.56
1-1/2A	250/450	283-2758-ND	2.24	2.14	1.56
2A	250/450	283-2759-ND	2.24	2.14	1.56
2-1/2A	250/450	283-2760-ND	2.24	2.14	1.56
3A	250/350	283-2761-ND	2.24	2.14	1.56
PCC-R Series - Short Lead Length — RoHS Compliant					
1/2A	250/450	283-2764-ND	2.24	2.14	1.56
3/4A	250/450	283-2769-ND	2.24	2.14	1.56
1A	250/450	283-2763-ND	2.24	2.14	1.56
1-1/2A	250/450	283-2765-ND	2.24	2.14	1.56
2A	250/450	283-2766-ND	2.24	2.14	1.56
3A	250/350	283-2768-ND	2.24	2.14	1.56
PCE-R Series - Short Lead Length — RoHS Compliant					
5A	125/250	283-2770-ND	2.24	2.14	1.56
Full Lead Length					
1A	250/450	283-2113-ND	7.25	6.69	5.02

Time-Delay Radial Fuses — SR-5 Series IEC 60127-3

RoHS COMPLIANT

Description: • Place directly into PCB or plug into BK/PCS holder (283-2356-ND) **Characteristics:** • Rated Current value 400mA ~ 5A carry 200% for 2 minutes maximum; 275% for 400 milliseconds minimum and 10 seconds maximum; 400% for 150 milliseconds minimum, 3 seconds maximum; 1000% for 20 milliseconds minimum and 150 milliseconds maximum **Agency Information:** • UL Recognition: E146895 • CSA: LR98127 • VDE: 122052 • SEMKO: 9914133 • MITI: 32-1966

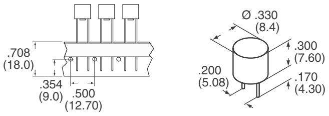

Amp-erage	Current Rating	Rated Voltage (AC/DC)	Digi-Key Part No.	Price Each 1	10	100
SR-5 Series - Bulk Pack						
500mA	250V	35A	283-2578-ND	1.27	1.21	.88
630mA	250V	35A	283-2579-ND	1.27	1.21	.88
800mA	250V	35A	283-2580-ND	1.27	1.21	.88
1A	250V	35A	283-2581-ND	1.27	1.21	.88
1.25A	250V	35A	283-2582-ND	1.27	1.21	.88
1.6A	250V	35A	283-2583-ND	1.27	1.21	.88
2A	250V	35A	283-2584-ND	1.27	1.21	.88
2.5A	250V	35A	283-2585-ND	1.27	1.21	.88
3.15A	250V	35A	283-2586-ND	1.27	1.21	.88
4A	250V	40A	283-2587-ND	1.27	1.21	.88
5A	250V	50A	283-2588-ND	1.27	1.21	.88

Amp-erage	Current Rating	Rated Voltage (AC/DC)	Digi-Key Part No.	Pricing 1000	5000
SR-5 Series - Ammo Pack					
630mA	250V	35A	283-2567-3-ND	421.00	377.00/M
800mA	250V	35A	283-2568-3-ND	421.00	377.00/M
1.25A	250V	35A	283-2570-3-ND	421.00	377.00/M
1.6A	250V	35A	283-2571-3-ND	421.00	377.00/M
4A	250V	40A	283-2575-3-ND	421.00	377.00/M
5A	250V	50A	283-2576-3-ND	421.00	377.00/M

Fast-Acting and Time-Delay Glass Fuses – C518 Series .205" x .591" (5mm x 15mm)

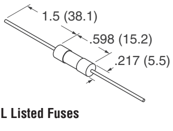

Construction Material: • Endcaps: Silver-plated brass • Leads: Tin-plated copper • Tube: Glass **Agency Approvals:** UL Listed (125mA-4A), CSA Component Acceptance (125mA-4A)

Limits for Pre-arcing Time/UL Listed Fuses

Amp Rating	135% Maximum	110% Minimum	200% Minimum	200% Maximum
125mA - 7A	1 hour	4 hour	—	2 seconds

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
C518 Series (Axial) Fast Acting					
750mA	250	283-2364-ND	.47	.34	.30

Radial PCB Mount Fuseholder

RoHS COMPLIANT

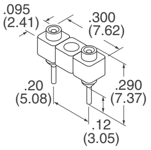

For use with PC-Tron® SR5, SS5

Digi-Key Part No.	Price Each 1	10	100
283-2356-ND	.84	.80	.58

MCRW Microtron® Fuses

RoHS COMPLIANT

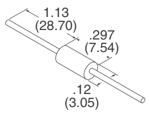

Characteristics: • Fast-Acting • Current-Limiting **Time Current Characteristics:** Rated current values 0-10 amps carry 100% of rating for 4 hours minimum; open at 200% of rating in 5 seconds maximum.
Construction Material: • Body: High temperature thermoplastic, flammability rating UL 94V-O • Element: Wire-in-air design • Leads: Tin-plated copper, .64mm (.025") diameter
Agency Approvals: UL Recognized (1/16-10A), CSA Component Acceptance (1/16-10A)

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
1/8mA	125/125	283-2069-ND	1.01	.74	.65
1/4mA	125/125	283-2070-ND	1.01	.74	.65
1/2A	125/125	283-2072-ND	.97	.70	.62
3/4A	125/125	283-2073-ND	1.01	.74	.65
1A	125/125	283-2074-ND	1.01	.74	.65
1-1/2A	125/125	283-2075-ND	1.01	.74	.65
2A	125/125	283-2076-ND	1.01	.74	.65
3A	125/125	283-2078-ND	1.01	.74	.65
4A	125/125	283-2080-ND	1.01	.74	.65
5A	125/125	283-2081-ND	1.01	.74	.65
7A	125/125	283-2082-ND	1.01	.74	.65
10A	125/125	283-2083-ND	1.01	.74	.65

AGC Fast-Acting and MDL Time-Delay Glass Fuses
1/4" x 1-1/4" (6.35mm x 31.75mm)

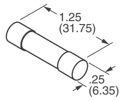

Time Current Characteristics: Rated current values 0-30 amps carry 110% of rating for 4 hours minimum; open at 135% of rating in 60 minutes maximum or 200% of rating in 120 seconds maximum
Construction Material: • Tube: Glass • Endcaps: Nickel-plated brass
Agency Approvals: AGC Fast-Acting: UL Recognized (15-30A), UL Listed (1/4-10A) and CSA Component Acceptance (1/4-30A)
MDL Time-Delay: UL Listed (1/4-8A), UL Recognized (9-30A), and CSA Component Acceptance (1/4-8A)

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
AGC-R Fast-Acting — RoHS Compliant					
1/4A	250	283-2621-ND	1.17	1.08	.81
3/10A	250	283-2630-ND	1.17	1.08	.81
1/2A	250	283-2620-ND	.54	.52	.38
3/4A	250	283-2631-ND	.54	.50	.38
1A	250	283-2619-ND	.34	.33	.24
1-1/4A	250	283-2624-ND	.34	.33	.24
1-1/2A	250	283-2623-ND	.34	.33	.24
2A	250	283-2626-ND	.34	.32	.24
2-1/2A	250	283-2628-ND	.34	.32	.24
3A	250	283-2629-ND	.34	.32	.24
4A	250	283-2634-ND	.53	.49	.37
5A	250	283-2635-ND	.53	.49	.37
6A	250	283-2636-ND	.53	.49	.37
7A	250	283-2637-ND	.53	.49	.37
8A	250	283-2638-ND	.62	.58	.43
10A	250	283-2622-ND	.62	.60	.43
15A	32	283-2625-ND	.37	.36	.26
20A	32	283-2627-ND	.37	.35	.26
25A	32	283-2868-ND ***NEW!***	1.22	1.17	.85
30A	32	283-2633-ND	.37	.35	.26
MDL-R Time-Delay — RoHS Compliant					
1/4A	250	283-2735-ND	1.18	1.13	.82
3/8A	250	283-2748-ND	1.18	1.13	.82
1/2A	250	283-2734-ND	.85	.82	.60
3/4A	250	283-2747-ND	.85	.82	.60
1A	250	283-2733-ND	.85	.82	.60
1-1/4A	250	283-2738-ND	.85	.79	.60
1-1/2A	250	283-2737-ND	.85	.79	.60
2A	250	283-2741-ND	.85	.82	.60
2-1/2A	250	283-2743-ND	.85	.82	.60
3A	250	283-2745-ND	.85	.82	.60
3-1/2A	250	283-2750-ND	.85	.82	.60
4A	250	283-2751-ND	.85	.82	.60
5A	250	283-2752-ND	.85	.82	.60
6-1/4A	250	283-2753-ND	.85	.82	.60
7A	250	283-2754-ND	.85	.82	.60
8A	250	283-2755-ND	.85	.82	.60
10A	32	283-2736-ND	1.26	1.17	.88
12A	32	283-2739-ND	1.26	1.21	.88
15A	32	283-2740-ND	1.26	1.21	.88
20A	32	283-2742-ND	1.26	1.21	.88

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
AGC Fast-Acting					
30A	32	283-2031-ND	.50	.37	.33
MDL Time-Delay					
3/8A	250	283-2169-ND	.75	.54	.48

ABC Fast-Acting and MDA Time-Delay Ceramic Fuses
1/4" x 1-1/4" (6.35mm x 31.75mm)

RoHS COMPLIANT

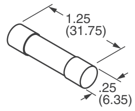

Time Current Characteristics:
Rated current values 0-30 amps carry 110% of rating for 4 hours minimum; open at 135% of rating in 60 minutes maximum or 200% of rating in 120 seconds maximum
Construction Material: • Ceramic • Endcaps: Nickel-plated brass
Agency Approvals: • ABC Fast-Acting: UL Listed (1/2-15A), UL Recognized (20A), and CSA Certification (1/2-15A) • MDL Time-Delay: UL Listed (1/12-20A), CSA Certified (1/2-15A)

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
ABC-R Fast-Acting					
1/2A	250	283-2606-ND	2.06	1.97	1.43
1A	250	283-2605-ND	.90	.86	.63
2A	250	283-2610-ND	.90	.86	.63
3A	250	283-2612-ND	.90	.86	.63
4A	250	283-2615-ND	.90	.86	.63
5A	250	283-2616-ND	.78	.66	.54
6A	250	283-2617-ND	.86	.82	.60
8A	250	283-2618-ND	.86	.82	.60
10A	250	283-2607-ND	.86	.82	.60
12A	250	283-2608-ND	.86	.82	.60
15A	250	283-2609-ND	.86	.82	.60
20A	250	283-2611-ND	1.24	1.05	.86
25A	125	283-2867-ND ***NEW!***	3.71	3.54	2.57
30A	125	283-2614-ND	1.47	1.36	1.02
MDA-R Time Delay					
1/2A	250	283-2721-ND	1.47	1.24	1.02
1A	250	283-2720-ND	1.47	1.36	1.02
2A	250	283-2725-ND	1.47	1.36	1.02
3A	250	283-2727-ND	1.47	1.36	1.02
4A	250	283-2729-ND	1.47	1.36	1.02
5A	250	283-2730-ND	1.47	1.36	1.02
6A	250	283-2731-ND	1.47	1.36	1.02
8A	250	283-2732-ND	1.47	1.36	1.02
10A	250	283-2722-ND	1.47	1.36	1.02
12A	250	283-2723-ND	1.47	1.36	1.02
15A	250	283-2724-ND	1.47	1.36	1.02
20A	250	283-2726-ND	1.47	1.36	1.02
30A	250	283-2728-ND	1.47	1.36	1.02

NEW! ATM Mini Blade-Type Automotive Fuses

RoHS COMPLIANT

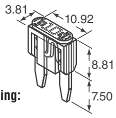

Rated Voltage: • 32 VDC **Interrupting Rating:** • 1,000A **Characteristics:** • Fast-Acting

Current Rating	Color Code	Digi-Key Part No.	Price Each 5	100	250
2A	Gray	283-2323-ND	.87	.63	.56
4A	Pink	283-2325-ND	.87	.63	.56
7.5A	Brown	283-2327-ND	.87	.63	.56
10A	Red	283-2328-ND	.87	.63	.56
20A	Yellow	283-2330-ND	.87	.63	.56
30A	Green	283-2332-ND	.87	.63	.56

ATC® Blade-Type Automotive Fuses

RoHS COMPLIANT

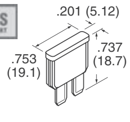

Rated Voltage: • 32 VDC **Characteristics:** • Fast-Acting **Agency Approvals:** • UL Recognized (3-40A)

Current Rating	Color Code	Digi-Key Part No.	Price Each 5	100	250
3A	Violet	283-2314-ND	.70	.51	.45
4A	Pink	283-2315-ND	.70	.51	.45
5A	Tan	283-2316-ND	.70	.51	.45
7-1/2A	Brown	283-2317-ND	.70	.51	.45
10A	Red	283-2318-ND	.70	.51	.45
15A	Blue	283-2319-ND	.70	.51	.45
20A	Yellow	283-2320-ND	.70	.51	.45
25A	Clear	283-2321-ND	.70	.51	.45
30A	Green	283-2322-ND	.70	.51	.45
40A	Orange	283-2833-ND	.70	.45	.36

ATC® Blade-Type Holders

RoHS COMPLIANT

Rated Current: • 3-20 Amps
Rated Voltage: • 32VDC, 16AWG wire 4" (101.60mm) length

Fig. 1

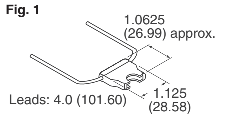

Bussmann #HHC

Fig. 2

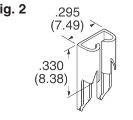

Bussmann #1A5600

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100
1	In-Line for ATC	283-2357-ND	3.97	3.79	2.75
2	Fuse Clip ATC Brass with Tin Plate	283-2604-ND	.62	.60	.43

Metric Ferrule Fuses — IEC Standard .205” x .787” (5mm x 20mm)

Limits for Pre-arcing Time/UL Listed Fuses.

Construction Material: • Tube: Ceramic, S501-R (GDA Series); Glass, S500-R (GDB Series) and S506-R (GDC Series) • End Caps: Nickel or silver-plated brass

Agency Approvals: S501-R (GDA Series): VDE (4 & 6.3A), Semko (400mA ~ 6.3A), IMQ (2 ~ 6.3A) and UL Recognized (400mA ~ 6.3A)

S500-R (GDB Series) and S506-R (GDC Series):
BSI (100mA ~ 6.3A), VDE (100mA ~ 6.3A), Semko (100mA ~ 400mA, 800mA ~ 6.3A), IMQ (100mA ~ 6.3A) and UL Recognized (100mA ~ 6.3A)

Amp Rating	150% Minimum	210% Maximum	275% Minimum–Maximum	400% Minimum–Maximum	1000% Minimum–Maximum
S501-R (GDA Series)					
100mA ~ 3.15A	60min.	30min.	10ms. ~ 2sec.	3ms. ~ 300ms.	20ms. (Max.)
4A ~ 6.3A	60min.	30min.	10ms. ~ 3sec.	3ms. ~ 300ms.	20ms. (Max.)
S500-R (GDB Series)					
100mA	60min.	30min.	10ms. ~ 500ms.	3ms. ~ 100ms.	20ms. (Max.)
125mA ~ 6.3A	60min.	30min.	50ms. ~ 2sec.	10ms. ~ 300ms.	20ms. (Max.)
8A ~ 10A	60min.	30min.	—	—	40ms. (Max.)
S506-R (GDC Series)					
100mA	60min.	2min.	200ms. ~ 10sec.	40ms. ~ 3sec.	10ms. ~ 300ms.
125mA ~ 6.3A	60min.	2min.	600ms. ~ 10sec.	150ms. ~ 3sec.	20ms. ~ 300ms.

IEC 60127-2

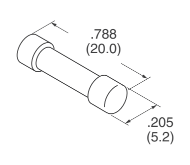

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
S501-R (GDA Series)† - Fast-Acting, High Breaking RoHS Compliant					
100mA	250	283-2659-ND	1.53	1.46	1.06
160mA	250	283-2660-ND	1.53	1.46	1.06
500mA	250	283-2667-ND	1.27	1.22	.88
2A	250	283-2663-ND	1.27	1.22	.88
2.5A	250	283-2662-ND	1.27	1.22	.88
3.15A	250	283-2664-ND	1.27	1.22	.88
4A	250	283-2666-ND	1.27	1.22	.88
5A	250	283-2668-ND	1.27	1.18	.88
6.3A	250	283-2669-ND	1.27	1.22	.88
S500-R (GDB Series)§ - Fast-Acting, Low Breaking RoHS Compliant					
100mA	250	283-2674-ND	1.54	1.47	1.07
125mA	250	283-2676-ND	1.54	1.47	1.07
160mA	250	283-2677-ND	.87	.84	.61
250mA	250	283-2680-ND	.87	.84	.61
315mA	250	283-2683-ND	.87	.84	.61
500mA	250	283-2685-ND	.27	.26	.19
630mA	250	283-2688-ND	.27	.26	.19
800mA	250	283-2689-ND	.27	.26	.19
1A	250	283-2678-ND	.27	.26	.19

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
1.25A	250	283-2672-ND	.27	.26	.19
1.6A	250	283-2673-ND	.27	.26	.19
2A	250	283-2681-ND	.27	.26	.19
2.5A	250	283-2679-ND	.27	.26	.19
3.15A	250	283-2682-ND	.27	.26	.19
4A	250	283-2684-ND	.27	.26	.19
5A	250	283-2686-ND	.27	.26	.19
6.3A	250	283-2687-ND	.27	.26	.19
8A◊	250	283-2690-ND	.99	.95	.69
10A◊	250	283-2675-ND	.99	.95	.69
S506-R (GDC Series)‡ - Time-Delay, Low Breaking RoHS Compliant					
100mA	250	283-2693-ND	1.16	1.08	.81
125mA	250	283-2694-ND	1.16	1.08	.81
125mA	250	283-2694-ND	1.16	1.08	.81
160mA	250	283-2695-ND	1.16	1.11	.81
250mA	250	283-2698-ND	1.16	1.08	.81
315mA	250	283-2701-ND	1.16	1.08	.81
400mA	250	283-2702-ND	1.16	1.11	.81
500mA	250	283-2704-ND	.84	.80	.59
630mA	250	283-2707-ND	.84	.80	.59
800mA	250	283-2708-ND	.84	.80	.59

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
1A	250	283-2696-ND	.84	.78	.59
1.25A	250	283-2691-ND	.84	.78	.59
1.6A	250	283-2692-ND	.84	.78	.59
2A	250	283-2699-ND	.84	.78	.59
2.5A	250	283-2697-ND	.84	.78	.59
3.15A	250	283-2700-ND	.84	.78	.59
4A	250	283-2703-ND	.84	.78	.59
5A	250	283-2705-ND	.84	.80	.59
6.3A	250	283-2706-ND	.84	.80	.59

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
2.5A	250	283-2277-ND	1.06	.77	.69

† S501 is a European designation. GDA is a North America designation, identical product.

§ S500 is a European designation. GDA is a North America designation, identical product.

‡ S506 is a European designation. GDA is a North America designation, identical product.

◊ IEC Standard 127 Sheet II does not include ratings above 6.3 amps.

Metric Ferrule Fuses — UL Standard .205” x .787” (5mm x 20mm)

Features: Glass tube, nickel-plated brass endcap construction **Agency Information:** UL Listed, (63mA ~ 6A), Guide JDYX, File E19180; UL Recognized Card: (7A ~ 15A), Guild JDYX2, File E19180; CSA Certified: (63mA ~ 6A), Class 1422-01, File E65063; Designed to UL/CSA 248-14 **Electrical Characteristics:** Rated Current: 63mA ~ 10A **Percentage of Amp Rating:** 100% - None, 135% for 60 minutes maximum, 200% for 2 minutes maximum

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
(GMA Series) - Fast-Acting, Low Breaking					
250mA	250	283-2839-ND	.69	.64	.48
500mA	250	283-2844-ND	.37	.35	.26
750mA	250	283-2869-ND ***NEW!***	1.68	1.60	1.17
1A	250	283-2837-ND	.30	.29	.21
1.5A	250	283-2834-ND	.30	.29	.21
2A	250	283-2840-ND	.30	.28	.21

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
2.5A	250	283-2838-ND	.30	.28	.21
3A	250	283-2841-ND	.30	.28	.21
3.15A	125	283-2842-ND	.30	.28	.21
4A	125	283-2843-ND	.30	.28	.21
5A	125	283-2845-ND	.30	.28	.21
10A	125	283-2835-ND	.30	.29	.21
15A	125	283-2836-ND	.30	.29	.21

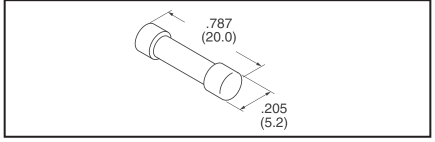

Multi-Meter Fast-Acting Ferrule Fuses
44/100 and 11 Amps

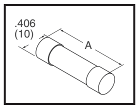

Specifications: Designed for multi-meters only. Intended to carry 100% of rated current indefinitely. Not intended for branch circuit protection. **Construction Material:** Melamine Tube and Nickel Plated Brass Endcaps **Voltage Rating:** 1000 Volts AC/DC **Interrupting Rating:** DMM-B-44/100 - 10,000A, 1000VAC, unity power factor and 10,000A, 1000VDC with time constant of 2.2ms; minimum interrupt 400% of rated current at rated voltage; DMM-B-11A - 20,000A, 1000VAC, power factor ≤2; 20,000A, 1000VDC, time constant ≥10ms **Agency Approvals:** UL Recognized 1000VDC, File E19180

Dimension A	Digi-Key Part No.	Price Each 1	10	100	Cooper Bussmann Part No.
1.375” (±0.031) 34.9mm (±0.79)	283-2495-ND	34.35	32.77	23.79	DMM-B-44/100
1.50” (±0.031) 38.1mm (±0.79)	283-2496-ND	42.06	40.12	29.12	DMM-B-11A

HBH-I and HBH-M Fuseholders
For 1/4” x 1-1/4” (6.35mm x 31.75mm) and .205” x .787” (5mm x 20mm) Fuses

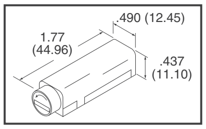

Horizontal PCB Mount
Electrical Ratings: UL-16A @ 250V and CSA - 12A @ 250V
Agency Approvals: UL Recognized, CSA Certified, VDE, and SEMKO

Description	Digi-Key Part No.	Price Each 1	10	Cooper Bussmann Part No.
For 1/4 x 1-1/4 (6.35 x 31.75) Fuses	283-2709-ND	3.54	3.38	HBH-I-R
For .205 x .787 (5 x 20) Fuses	283-2710-ND	4.62	4.41	HBH-M-R

Fuseholders for GMT Type Indicating Fuse

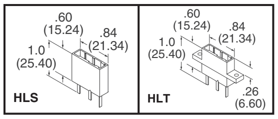

PC Mount Electrical Rating: 15A (60VDC)
Construction Material: • Body: Thermoplastic, UL-94V0 flammability rating • Terminals: Tin-plated bifurcated copper
Agency Approval: UL Recognized

Description	Digi-Key Part No.	Price Each 1	10	100
No Flange - HLS	283-2358-ND	3.25	3.10	2.25
With Flange - HLT	283-2359-ND	2.95	2.82	2.05

GMT Indicating Fuses

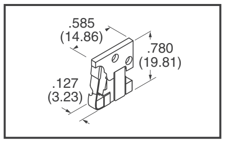

Rated Voltage: 125VAC, 60VDC **Characteristics:** Fast Acting **Time Current Characteristics:** Rated current values 1/4 ~ 15 amps carry 100% of rating for 10 minutes minimum; open at 150% of rating in 5 minutes maximum **Construction Material:** • Body: Thermoplastic, U.L. 94VO flammability rating • Terminals: Tin plated Beryllium Copper
Agency Approvals: UL Recognized

Current Rating	Color Code	Digi-Key Part No.	Price Each 1	10	100
1/4A	Violet	283-2051-ND	2.87	2.65	1.99
1/2A	Red	283-2053-ND	2.87	2.65	1.99
3/4A	Brown	283-2055-ND	2.87	2.74	1.99
1A	Gray	283-2056-ND	2.87	2.65	1.99
1-1/2A	White/Yellow	283-2058-ND	2.20	2.04	1.53
2A	Orange	283-2059-ND	2.87	2.65	1.99
3A	Blue	283-2060-ND	2.87	2.74	1.99
4A	White/Brown	283-2062-ND	2.87	2.74	1.99
5A	Green	283-2063-ND	2.87	2.74	1.99
7-1/2A	Black/White	283-2064-ND	2.87	2.74	1.99
10A	Red/White	283-2065-ND	2.87	2.65	1.99
15A	Red/Blue	283-2067-ND	2.87	2.65	1.99
Clear Fuse cover for GMT Series…………		283-2846-ND	.74	.71	.52

NEW! KTK Fast Acting Fuses 13/32” x 1-1/2” (10.32mm x 38.1mm)

Rated Voltage: 600VAC
Agency Approval: UL listed, STD. 248-14; CSA Certified: C22.2 No. 248.14
Construction Material: Melanine tube with nickel-plated bronze endcaps

Current Rating	Digi-Key Part No.	Price Each 1	10	100
5A	283-2463-ND	26.42	25.21	18.30
10A	283-2466-ND	26.42	25.21	18.30
15A	283-2467-ND	26.42	25.21	18.30
20A	283-2468-ND	26.52	25.30	18.36
25A	283-2469-ND	26.52	25.30	18.36
30A	283-2470-ND	26.52	25.30	18.36

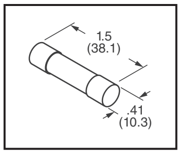

HTB Panel Mount Fuseholders

For 1/4" x 1-1/4" (6.35mm x 31.75mm) and .205" x .787" (5mm x 20mm) Fuses

Construction Material:
- Terminals: Tin-plated brass • Molded Components: Thermoplastic; UL Component Recognized; 94V0; mounting nut, spacer-black polycarbonate

Agency Approvals:
- UL Recognized • CSA Approved • VDE and SEMKO Certified 5 x 20mm only

Dimensional Data:
- Length (Knob Type) — 1.69" (42.9mm) Plus In-Line Terminal (Screwdriver Slotted) 1.75" (44.5mm) Note: Plus In-Line Terminal

Fig.	Term. Opt.	Current Rating	Panel Accepts Fuse	Thickness Inch (mm)	Digi-Key Part No.	Price Each 1	10
2	A	15A	1/4" x 1-1/4" 3AG	.125 (3.18)	283-2346-ND	3.97	3.66
	A	15A			283-2347-ND†	3.45	3.18
RoHS Compliant							
1	A	15A	1/4" x 1-1/4" 3AG	.30 (7.62)	283-2711-ND	3.14	2.90
	B	15A			283-2851-ND	3.14	2.90
	D	20A			283-2852-ND	3.35	3.09
	A	15A	5 x 20mm		283-2712-ND	3.35	3.09
2	B	15A	1/4" x 1-1/4" 3AG	.125 (3.18)	283-2714-ND	3.48	3.21
	A	15A			283-2715-ND	3.67	3.39
	D	20A			283-2717-ND	3.93	3.63
	C	20A			283-2718-ND	3.51	2.97
3	A	15A	5 x 20mm	.30 (7.62)	283-2713-ND	3.35	3.09
			1/4" x 1-1/4" 3AG		283-2871-ND ***NEW!***	7.02	6.70
	B	15A	1/4" x 1-1/4" 3AG		283-2870-ND ***NEW!***	7.02	6.70
	D	16A	5 x 20mm		283-2854-ND	3.35	3.09
	D	20A	1/4" x 1-1/4" 3AG		283-2853-ND	3.35	3.09
4	A	15A	1/4" x 1-1/4" 3AG	.125 (3.18)	283-2719-ND	3.14	2.90
5	B	15A	1/4" x 1-1/4" 3AG		283-2855-ND	3.35	3.09
6	B	15A	5 x 20mm		283-2856-ND	3.35	3.09

† Splash Proof Seal

Common Mounting Hole

HTB 2, 3, 4, & 5 **HTB 8 & 9**

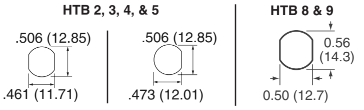

Fig. 1

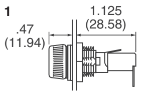

HTB-2: Low Profile
Rear Hex Nut

Fig. 2

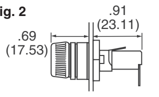

HTB-4: High Profile
Rear Hex Nut

Fig. 3

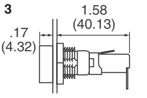

HTB-3: Low Profile
Rear Hex Nut

Fig. 4

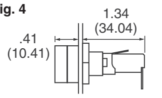

HTB-5: High Profile
Rear Hex Nut

Fig. 5

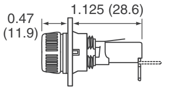

HTB-8: Low Profile
Snap-In

Fig. 6

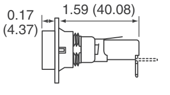

HTB-9: Low Profile
Snap-In

TERMINAL OPTIONS

Solder 3/16" (4.76mm) Quick-Connect		1/4" (6.35mm) Quick-Connect	
A 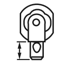 .33 (8.38) Right Angle	B 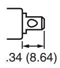 .34 (8.64) In-Line	C 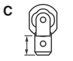 .45 (11.43) Right Angle	D 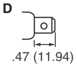 .47 (11.94) In-Line

Printed Circuit Board Fuseclips

Fig. 1

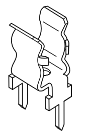

Fig. 2

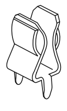

Fig. 3

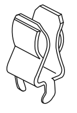

Fig. 4

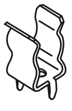

Fig. 5

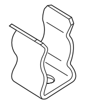

Fig. 6

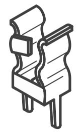

Fig.	Accepts Fuse Diameter	End Stop	Lead Type	Clip Material†	Finish	Digi-Key Part No.	Price Each 1	10	100	Cooper Bussmann Part No.
1	5mm	Yes	Straight	Spring Bronze	Bright Tin	283-2603-ND	.25	.24	.18	1A5018-10-R
2	1/4" 3AG	Yes	Straight	Beryllium Copper	Bright Tin	283-2826-ND	.58	.56	.41	BK/1A1907-03-R
	1/4" 3AG	Yes	Straight	Cartridge Brass	Bright Tin	283-2601-ND	.18	.17	.13	1A1907-06-R
	5mm	Yes	Straight	Beryllium Copper	Silver	283-2865-ND ***NEW!***	.60	.57	.42	BK/1A3399-01
	5mm	Yes	Straight	Beryllium Copper	Bright Tin	283-2827-ND	.57	.55	.40	BK/1A3399-04-R
	5mm	Yes	Straight	Spring Bronze	Bright Tin	283-2828-ND	.26	.24	.16	BK/1A3399-10-R
	13/32"	Yes	Straight	Spring Bronze	Bright Tin	283-2829-ND	.60	.58	.42	BK/1A3400-09-R
	13/32"	Yes	Straight	Beryllium Copper	Silver	283-2830-ND	.63	.61	.44	BK/1A3400-10
	5mm	Yes	Straight*	Cartridge Brass	Bright Tin	283-2832-ND	.35	.34	.25	BK/1A5601
3	1/4" 3AG	Yes	Angled-In	Beryllium Copper	Bright Tin	283-2825-ND	.57	.55	.40	BK/1A1119-03-R
	1/4" 3AG	Yes	Angled-In	Beryllium Copper	Silver	283-2864-ND ***NEW!***	.56	.54	.39	BK/1A1119-05
	1/4" 3AG	Yes	Angled-In	Cartridge Brass	Bright Tin	283-2598-ND	.33	.32	.24	1A1119-10-R
	1/4" 3AG	Yes	Angled-Out	Beryllium Copper	Bright Tin	283-2831-ND	.41	.40	.29	BK/1A4534-01-R
4	1/4" 3AG	No	Angled-In	Cartridge Brass	Bright Tin	283-2599-ND	.36	.35	.26	1A1120-09-R
	1/4" 3AG	No	Straight	Cartridge Brass	Bright Tin	283-2602-ND	.25	.24	.18	1A3398-07-R
6	5mm	Yes	Angled-In	Cartridge Brass	Bright Tin	283-2866-ND ***NEW!***	.43	.41	.30	BK/1A5602

* Locking Mounting Leads

Fig.	Accepts Fuse Diameter	End Stop	Lead Type	Clip Material†	Finish	Digi-Key Part No.	Price Each 10	100	250	Cooper Bussmann Part No.
2	1/4" 3AG	Yes	Straight	Beryllium Copper	Silver	283-2342-ND	.66	.50	.44	1A1907-05
5	1/4" 3AG	No	None	Spring Bronze	Bright Tin	283-2337-ND	.26	.20	.18	5681-15

† Beryllium copper recommended for currents higher than 15 amps (1/4" or 6.35mm clips).

HRK Universal In-Line Fuseholder

For 1/4" x 7/8" to 1-1/4" (6.35mm x 22.23mm x 31.75mm) Fuses

Specifications:
- Three springs furnished with fuseholder afford acceptance of 1/4" (6.35mm) fuses of different lengths
- Wire leads are staked and soldered to the contacts of the fuseholder
- Leads are 8" (20.3mm) long
- Wire size - #14

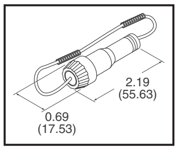

Amps	Volts AC	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
15	32	283-2343-ND	3.51	3.35	2.43	HRK

HKP Panel Mount Fuseholder For 1/4" x 1-1/4" (6.35mm x 31.75mm) Fuses

Specifications:
- Maximum panel thickness 5/16" (7.9mm)
- Temperature rating of 150°C
- Thermoplastic meets UL94 HB

Agency Approvals: • UL Recognized • CSA

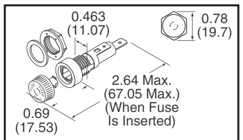

Current Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
15A	250	283-2849-ND*	4.32	4.13	3.00	BK/HKP-HH-R
30A		283-2850-ND	3.48	3.32	2.41	BK/HKP-R

* Solder Eyelet Termination

HHB "Snap-Lock" In-Line Fuseholder

For 1/4" x 7/8" to 1-1/4" (6.35mm x 22.23mm x 31.75mm) Fuses

Specifications:
- Accepts #16 to #12AWG copper wire
- High visibility yellow color
- UL flammability rating 94 V2

Material: Body: Nylon • Crimp: Copper, Tin-Plated

Fuse Length	"L" with Fuse Installed
7/8"	2.100" Maximum
1"	2.250" Maximum
1-1/4"	2.420" Maximum

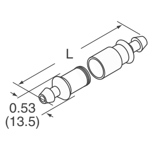

Current Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
30A	32	283-2848-ND	1.63	1.56	1.13	BK/HHB-R

HFB Waterproof In-Line Fuseholder

For 1/4" x 1-1/4" (6.35mm x 31.75mm) Fuses

Construction Material:
- Body: Thermoplastic rubber (orange)
- Contacts: Copper with Tin plating
- Accepts 10AWG wire

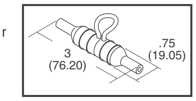

Amps	Volts AC	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
30	32	283-2355-ND	20.41	19.47	14.13	HFB-10

HFA Waterproof In-Line Fuseholder

For 1/4" x 1-1/4" (6.35mm x 31.75mm) Fuses

Specifications:
- Accepts #16 to #12 AWG copper wire
- Temperature rating of 150°C
- High temperature, flame retardant, phenolic meets UL94 HB

Material: Body: Phenolic
- Crimp: Copper, Tin-Plated

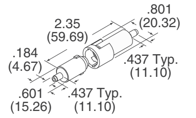

Current Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
20A	250	283-2847-ND	19.21	18.33	13.30	BK/HFA-R

Type SMP, SMT Power Cross Protection Fuse

SMP Fuses guard protected circuitry against sustained overload or short circuit conditions. Such sustained overloads may be generated by accidental contact between utility cables and phone lines (power line cross).

Specifications:
- **Voltage Rating:** 600V • **Operating Temperature:** -55°C ~ 125°C
- **Construction Material:** Ceramic Body/Tin plated Brass Caps, Lead Free Solder • **Packaging:** 13 inch diameter reel, 16mm wide tape, 8mm pitch, per EIA standard 481

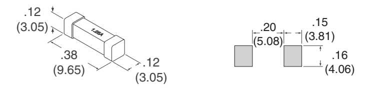

Electrical Characteristics		
	Blow Time	
Test Current	Minimum	Maximum
100% / 110% (2A)	4 hrs	N/A
200%	3 sec/N/A (2A)	60 sec
500%	100 msec	1.5 sec
1000%	30 msec	300 msec

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 2,000	Bel Fuse Part No.
500mA	507-1038-1-ND	1.69	1.50	1.07	500.00/M	SMP 500
1.25A	507-1039-1-ND	1.69	1.50	1.07	500.00/M	SMP 1.25
2.0A	507-1040-1-ND	1.69	1.50	1.07	—	SMP 2

* For Tape and Reel part number, change 1-ND to 2-ND.

Type RJS Telecom - Power Cross Protection and Ballast Protection

RJS fuse guard protected circuitry against sustained overload or short circuit conditions. Such sustained overloads may be generated by accidental contact between utility cables and phone lines (power line cross).

Electrical Characteristics		
	Blow Time	
Test Current	Minimum	Maximum
100%	4 hrs	N/A
135%	N/A	1 hr
200%	3 sec	20 sec
500%	100 msec	1.5 sec
1000%	30 msec	300 msec

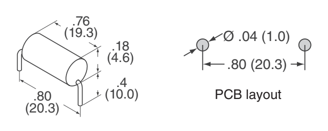

Specifications:
- **Voltage Rating:** 600V
- **Operating Temperature:** -55°C ~ 125°C
- **Construction Material:** Body: Glass, Lead Wire: Tin-lead plated Copper, Diameter 0.032 inch
- **Packaging:** Bulk, 500 pieces per box

Amp Rating	Lead Length	Digi-Key Part No.	Price Each 1	10	100	Bel Fuse Part No.
2.00A	Standard	507-1002-ND	.50	.45	.32	RJS 2

Type SSQ, 6125 (2410) Size Square Ceramic SMT Fast Acting Fuse

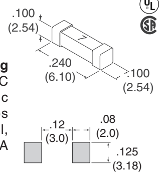

Specifications:
- **Voltage Rating:** 125V • **Operating Temperature:** -55°C ~ 125°C
- **Construction Material:** Ceramic Body/Palladium Plated Brass Caps
- **Packaging:** 13 inch diameter reel, 12mm wide tape, 4mm pitch, per EIA standard 481

Electrical Characteristics: • Test Current 100%, Blow Time 4 Hrs Min; Test Current 200% Blow Time 5 seconds Maximum

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Bel Fuse Part No.
250mA	507-1041-1-ND	.76	.68	.48	224.00	SSQ 250
500mA	507-1043-1-ND	.76	.68	.48	224.00	SSQ 500
750mA	507-1044-1-ND	.76	.68	.48	224.00	SSQ 750
1A	507-1045-1-ND	.76	.68	.48	224.00	SSQ 1
1.25A	507-1046-1-ND	.76	.68	.48	224.00	SSQ 1.25
1.5A	507-1047-1-ND	.76	.68	.48	224.00	SSQ 1.5
2A	507-1048-1-ND	.76	.68	.48	224.00	SSQ 2
2.5A	507-1049-1-ND	.76	.68	.48	224.00	SSQ 2.5
3A	507-1050-1-ND	.76	.68	.48	224.00	SSQ 3
3.5A	507-1051-1-ND	.76	.68	.48	224.00	SSQ 3.5
4A	507-1052-1-ND	.76	.68	.48	224.00	SSQ 4
5A	507-1053-1-ND	.76	.68	.48	224.00	SSQ 5
6.3A	507-1054-1-ND	.76	.68	.48	224.00	SSQ 6.3
7A	507-1055-1-ND	.76	.68	.48	224.00	SSQ 7
8A	507-1056-1-ND	.76	.68	.48	224.00	SSQ 8
10A	507-1057-1-ND	.76	.68	.48	224.00	SSQ 10
12A	507-1058-1-ND	.76	.68	.48	224.00	SSQ 12
15A	507-1059-1-ND	.76	.68	.48	224.00	SSQ 15

* For Tape and Reel part number, change 1-ND to 2-ND.

Type 5SF, 5ST (5x20mm) Fuse, Low Breaking Capacity

IEC-127-2

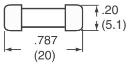

Operating Temperature: -55 ~ 125°C

Materials: • Glass body/Nickel plated brass caps

Amp Rating	Digi-Key Part No.	Price Each 1	10	100	Bel Fuse Part No.
5SF Series - Fast Acting Fuse					
80mA	507-1218-ND	.43	.39	.28	5SF 80-R
100mA	507-1219-ND	.43	.39	.28	5SF 100-R
125mA	507-1220-ND	.43	.39	.28	5SF 125-R
200mA	507-1221-ND	.43	.39	.28	5SF 200-R
250mA	507-1222-ND	.43	.39	.28	5SF 250-R
400mA	507-1223-ND	.43	.39	.28	5SF 400-R
500mA	507-1224-ND	.43	.39	.28	5SF 500-R
1A	507-1225-ND	.43	.39	.28	5SF 1-R
1.25A	507-1226-ND	.43	.39	.28	5SF 1.25-R
1.6A	507-1227-ND	.43	.39	.28	5SF 1.6-R
2A	507-1228-ND	.43	.39	.28	5SF 2-R
2.5A	507-1229-ND	.43	.39	.28	5SF 2.5-R
3.15A	507-1230-ND	.43	.39	.28	5SF 3.15-R
4A	507-1231-ND	.43	.39	.28	5SF 4-R
5A	507-1232-ND	.43	.39	.28	5SF 5-R
6.3A	507-1233-ND	.43	.39	.28	5SF 6.3-R
8A	507-1234-ND	.43	.39	.28	5SF 8-R
10A	507-1235-ND	.43	.39	.28	5SF 10-R
5ST Series - Time Lag Fuse					
63mA	507-1236-ND	.43	.39	.28	5ST 63-R
80mA	507-1237-ND	.43	.39	.28	5ST 80-R
100mA	507-1238-ND	.43	.39	.28	5ST 100-R
125mA	507-1239-ND	.43	.39	.28	5ST 125-R
200mA	507-1240-ND	.43	.39	.28	5ST 200-R
250mA	507-1241-ND	.43	.39	.28	5ST 250-R
400mA	507-1242-ND	.43	.39	.28	5ST 400-R
500mA	507-1243-ND	.43	.39	.28	5ST 500-R
630mA	507-1244-ND	.43	.39	.28	5ST 630-R
800mA	507-1245-ND	.43	.39	.28	5ST 800-R
1A	507-1246-ND	.43	.39	.28	5ST 1-R
1.25A	507-1247-ND	.43	.39	.28	5ST 1.25-R
1.6A	507-1248-ND	.43	.39	.28	5ST 1.6-R
2A	507-1249-ND	.43	.39	.28	5ST 2-R
2.5A	507-1250-ND	.43	.39	.28	5ST 2.5-R
3.15A	507-1251-ND	.43	.39	.28	5ST 3.15-R
4A	507-1252-ND	.43	.39	.28	5ST 4-R
5A	507-1253-ND	.43	.39	.28	5ST 5-R
6.3A	507-1254-ND	.43	.39	.28	5ST 6.3-R
8A	507-1255-ND	.43	.39	.28	5ST 8-R
10A	507-1256-ND	.43	.39	.28	5ST 10-R

Type 5HF, 5HT (5x20mm) Fuse, High Breaking Capacity

IEC-127-2

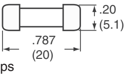

Operating Temperature: -55 ~ 125°C

Materials: • Ceramic body/Nickel plated brass caps

Amp Rating	Digi-Key Part No.	Price Each 1	10	100	Bel Fuse Part No.
5HF Series - Fast Acting Fuse					
250mA	507-1195-ND	.58	.52	.37	5HF 250-R
500mA	507-1196-ND	.58	.52	.37	5HF 500-R
800mA	507-1197-ND	.58	.52	.37	5HF 800-R
1A	507-1198-ND	.58	.52	.37	5HF 1-R
1.6A	507-1199-ND	.58	.52	.37	5HF 1.6-R
2A	507-1200-ND	.58	.52	.37	5HF 2-R
3.15A	507-1201-ND	.58	.52	.37	5HF 3.15-R
4A	507-1202-ND	.58	.52	.37	5HF 4-R
5A	507-1203-ND	.58	.52	.37	5HF 5-R
6.3A	507-1204-ND	.58	.52	.37	5HF 6.3-R
8A	507-1205-ND	.58	.52	.37	5HF 8-R
10A	507-1206-ND	.58	.52	.37	5HF 10-R
5HT Series - Time Lag Fuse					
1A	507-1207-ND	.58	.52	.37	5HT 1-R
1.25A	507-1208-ND	.58	.52	.37	5HT 1.25-R
1.6A	507-1209-ND	.58	.52	.37	5HT 1.6-R
2A	507-1210-ND	.58	.52	.37	5HT 2-R
2.5A	507-1211-ND	.58	.52	.37	5HT 2.5-R
3.15A	507-1212-ND	.58	.52	.37	5HT 3.15-R
4A	507-1213-ND	.58	.52	.37	5HT 4-R
5A	507-1214-ND	.58	.52	.37	5HT 5-R
6.3A	507-1215-ND	.58	.52	.37	5HT 6.3-R
8A	507-1216-ND	.58	.52	.37	5HT 8-R
10A	507-1217-ND	.58	.52	.37	5HT 10-R

Type 5MF, 5MT and 5TT (5x20mm) Fuses

UL/CSA STD 248-14

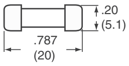

Operating Temperature: -55 ~ 125°C

Materials:
5MF, 5MT: • Glass Body/Nickel Plated Brass Caps.
5TT: • 5A and less, Glass Body/Nickel Plated Brass Caps, 6A and above, Ceramic body/Nickel Plated Brass Caps

Amp Rating	Digi-Key Part No.	Price Each 1	10	100	Bel Fuse Part No.
5MF Series - Fast Acting Fuse					
250mA	507-1257-ND	.36	.32	.23	5MF 250-R
300mA	507-1258-ND	.36	.32	.23	5MF 300-R
500mA	507-1259-ND	.36	.32	.23	5MF 500-R
700mA	507-1260-ND	.36	.32	.23	5MF 700-R
1A	507-1261-ND	.36	.32	.23	5MF 1-R
1.25A	507-1262-ND	.36	.32	.23	5MF 1.25-R
1.5A	507-1263-ND	.36	.32	.23	5MF 1.5-R
2A	507-1264-ND	.36	.32	.23	5MF 2-R
2.5A	507-1265-ND	.36	.32	.23	5MF 2.5-R
3A	507-1266-ND	.36	.32	.23	5MF 3-R
3.5A	507-1267-ND	.36	.32	.23	5MF 3.5-R
4A	507-1268-ND	.36	.32	.23	5MF 4-R
5A	507-1269-ND	.36	.32	.23	5MF 5-R
6A	507-1270-ND	.36	.32	.23	5MF 6-R
7A	507-1271-ND	.36	.32	.23	5MF 7-R
8A	507-1272-ND	.36	.32	.23	5MF 8-R
5MT Series - Medium Acting Fuse					
250mA	507-1273-ND	.46	.41	.29	5MT 250-R
375mA	507-1274-ND	.46	.41	.29	5MT 375-R
500mA	507-1275-ND	.46	.41	.29	5MT 500-R
750mA	507-1276-ND	.46	.41	.29	5MT 750-R
1A	507-1277-ND	.46	.41	.29	5MT 1-R
2A	507-1278-ND	.46	.41	.29	5MT 2-R
2.5A	507-1279-ND	.46	.41	.29	5MT 2.5-R
3A	507-1280-ND	.46	.41	.29	5MT 3-R
3.5A	507-1281-ND	.46	.41	.29	5MT 3.5-R
4A	507-1282-ND	.46	.41	.29	5MT 4-R
5A	507-1283-ND	.46	.41	.29	5MT 5-R
7A	507-1284-ND	.46	.41	.29	5MT 7-R
5TT Series - Time Lag Fuse					
125mA	507-1285-ND	.56	.50	.36	5TT 125-R
250mA	507-1286-ND	.56	.50	.36	5TT 250-R
300mA	507-1287-ND	.56	.50	.36	5TT 300-R
400mA	507-1288-ND	.56	.50	.36	5TT 400-R
500mA	507-1289-ND	.56	.50	.36	5TT 500-R
750mA	507-1290-ND	.56	.50	.36	5TT 750-R
1A	507-1291-ND	.56	.50	.36	5TT 1-R
1.25A	507-1292-ND	.56	.50	.36	5TT 1.25-R
1.5A	507-1293-ND	.56	.50	.36	5TT 1.5-R
1.6A	507-1294-ND	.56	.50	.36	5TT 1.6-R
2A	507-1295-ND	.56	.50	.36	5TT 2-R
2.5A	507-1296-ND	.56	.50	.36	5TT 2.5-R
3A	507-1297-ND	.56	.50	.36	5TT 3-R
4A	507-1298-ND	.56	.50	.36	5TT 4-R
5A	507-1299-ND	.56	.50	.36	5TT 5-R
6A	507-1300-ND	.56	.50	.36	5TT 6-R
7A	507-1301-ND	.56	.50	.36	5TT 7-R
8A	507-1302-ND	.56	.50	.36	5TT 8-R
10A	507-1303-ND	.56	.50	.36	5TT 10-R

Type SST, 6125 (2410) Size Square Ceramic SMT Slow Blow Fuse

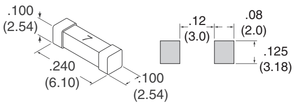

Electrical Characteristics		
	Blow Time	
Test Current	Minimum	Maximum
100%	4 hrs	N/A
200%	1 sec	60 sec
300%	0.2 sec	3 sec
800%	0.02 sec	0.1 sec

Specifications: • **Voltage Rating:** 125V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Ceramic Body/Palladium Plated Brass Caps • **Packaging:** 13 inch diameter reel, 12mm wide tape, 4mm pitch, per EIA standard 481 • UL/CSA STD 248-14

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Bel Fuse Part No.
375mA	507-1060-1-ND	1.17	1.05	.74	348.00	SST 375
500mA	507-1061-1-ND	1.24	1.10	.78	366.00	SST 500
750mA	507-1063-1-ND	1.17	1.05	.74	348.00	SST 750
1A	507-1064-1-ND	1.17	1.05	.74	348.00	SST 1
1.5A	507-1065-1-ND	1.17	1.05	.74	348.00	SST 1.5
2A	507-1066-1-ND	1.17	1.05	.74	348.00	SST 2
2.5A	507-1067-1-ND	1.17	1.05	.74	348.00	SST 2.5
3A	507-1068-1-ND	1.17	1.05	.74	348.00	SST 3
3.5A	507-1069-1-ND	1.17	1.05	.74	348.00	SST 3.5
4A	507-1070-1-ND	1.17	1.05	.74	348.00	SST 4
5A	507-1071-1-ND	1.17	1.05	.74	348.00	SST 5
7A	507-1072-1-ND	1.17	1.05	.74	348.00	SST 7

* For Tape and Reel part number, change 1-ND to 2-ND.

Type C2Q, 0603 Size SMT Very Fast-Acting Chip Fuse

Specifications: • **Voltage Rating:** 32V • **Operating Temperature:** -55 ~ 125°C • **Construction Material:** Ceramic Substrate/ Printed Element, Tin Plated Terminations • **Packaging:** 7 inch diameter reel, 8mm wide tape, 4mm pitch, per EIA standard 481 (equivalent IEC-286 part 3) • **Part Markings:** None • UL/CSA STD 248-14

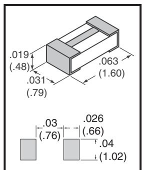

Infrared solder layout for PCB. See data-sheet for wave solder.

Electrical Characteristics		
	Blow Time	
Test Current	Minimum	Maximum
100%	4 hrs	N/A
200%	N/A	5 sec
300%	N/A	0.2 sec

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 5,000	Bel Fuse Part No.
250mA	507-1086-1-ND	.62	.56	.40	161.00/M	C2Q 250
300mA	507-1087-1-ND	.62	.56	.40	161.00/M	C2Q 250
375mA	507-1088-1-ND	.62	.56	.40	161.00/M	C2Q 375
500mA	507-1089-1-ND	.62	.56	.40	161.00/M	C2Q 500
750mA	507-1090-1-ND	.62	.56	.40	161.00/M	C2Q 750
1A	507-1091-1-ND	.62	.56	.40	161.00/M	C2Q 1
1.25A	507-1092-1-ND	.62	.56	.40	161.00/M	C2Q 1.25
1.5A	507-1093-1-ND	.62	.56	.40	161.00/M	C2Q 1.5
2A	507-1094-1-ND	.62	.56	.40	161.00/M	C2Q 2
2.5A	507-1095-1-ND	.62	.56	.40	161.00/M	C2Q 2.5
3A	507-1096-1-ND	.62	.56	.40	161.00/M	C2Q 3
3.5A	507-1097-1-ND	.62	.56	.40	161.00/M	C2Q 3.5
4A	507-1098-1-ND	.62	.56	.40	161.00/M	C2Q 4
5A	507-1099-1-ND	.62	.56	.40	161.00/M	C2Q 5

* For Tape and Reel part number, change 1-ND to 2-ND.

Type C1Q and C1S, 1206 Size SMT Very Fast-Acting/ Slow Blow Chip Fuse

C1S C1Q C1Q C1Q and C1S

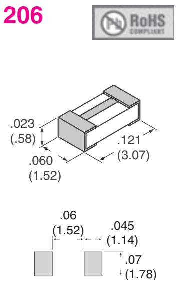

Infrared solder layout for PCB. See data sheet for wave solder.

Specifications:

• **Voltage Rating:** Type C1Q: 125V; Type C1S: 63V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Ceramic Sub strate/Printed Element, Tin Plated Terminations • **Packaging:** 7 inch diameter reel, 8mm wide tape, 4mm pitch, per EIA standard 481 (equivalent IEC-286 part 3) • **Part Markings:** None • **Type C1Q:** UL/CSA STD 248-14; **Type C1S:** UL STD 248-14

Electrical Characteristics				
	Blow Time - C1Q		Blow Time - C1S	
Test Current	Min.	Max.	Min.	Max.
100%	4 hrs	N/A	4 hrs	N/A
200%	N/A	5 sec	1 sec	120 sec
300%	N/A	0.2 sec	0.1 sec	3 sec

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 5,000	Bel Fuse Part No.
C1Q Type – Fast Acting						
250mA	507-1073-1-ND	.62	.56	.40	161.00/M	C1Q 250
375mA	507-1074-1-ND	.62	.56	.40	161.00/M	C1Q 375
500mA	507-1075-1-ND	.62	.56	.40	161.00/M	C1Q 500
750mA	507-1076-1-ND	.62	.56	.40	161.00/M	C1Q 750
1A	507-1077-1-ND	.62	.56	.40	161.00/M	C1Q 1
1.25A	507-1078-1-ND	.62	.56	.40	161.00/M	C1Q 1.25
1.5A	507-1079-1-ND	.62	.56	.40	161.00/M	C1Q 1.5
2A	507-1080-1-ND	.62	.56	.40	161.00/M	C1Q 2
2.5A	507-1081-1-ND	.62	.56	.40	161.00/M	C1Q 2.5
3A	507-1082-1-ND	.62	.56	.40	161.00/M	C1Q 3
3.5A	507-1083-1-ND	.62	.56	.40	161.00/M	C1Q 3.5
4A	507-1084-1-ND	.62	.56	.40	161.00/M	C1Q 4
5A	507-1085-1-ND	.62	.56	.40	161.00/M	C1Q 5
C1S Type – Slow Blow						
750mA	507-1185-1-ND	.62	.56	.40	161.00/M	C1S 750
1A	507-1186-1-ND	.62	.56	.40	161.00/M	C1S 1
1.25A	507-1187-1-ND	.62	.56	.40	161.00/M	C1S 1.25
1.5A	507-1188-1-ND	.62	.56	.40	161.00/M	C1S 1.5
2A	507-1189-1-ND	.62	.56	.40	161.00/M	C1S 2
2.5A	507-1190-1-ND	.62	.56	.40	161.00/M	C1S 2.5
3A	507-1191-1-ND	.62	.56	.40	161.00/M	C1S 3
3.5A	507-1192-1-ND	.62	.56	.40	161.00/M	C1S 3.5
4A	507-1193-1-ND	.62	.56	.40	161.00/M	C1S 4
5A	507-1194-1-ND	.62	.56	.40	161.00/M	C1S 5

* For Tape and Reel part number, change 1-ND to 2-ND.

Type MRT Time Lag Radial Lead Micro Fuse Series, IEC 127-3, SS4

Bulk

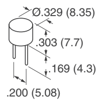

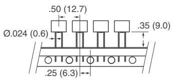

Tape and Ammo

Electrical Characteristics			
		Blow Time	
Rated Current	Testing Current	Minimum	Maximum
80mA ~ 6.3A inclusive	150%	1 hr	N/A
	210%	N/A	2 min
	275%	400 msec	10 sec
	400%	150 msec	3 sec
	1000%	20 msec	150 msec

Specifications:

• **Voltage Rating:** 250V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Base and Cap: Black thermoplastic, UL94-VO Pins: Tin-plated copper alloy • **Packaging:** Bulk, 250 pieces per bag, 1,000 pieces per box (Short Leads), Tape and Ammo pack: 1,000 pieces per box, per IEC-286-2 (Long Leads)

MRT Time Lag – Bulk

Amp Rating	Digi-Key Part No. Short Lead	Bulk Price Each 1	10	100	Bel Fuse Part No.
80mA	507-1100-ND	.75	.67	.48	MRT 80
100mA	507-1101-ND	.75	.67	.48	MRT 100
125mA	507-1102-ND	.75	.67	.48	MRT 125
160mA	507-1103-ND	.75	.67	.48	MRT 160
200mA	507-1104-ND	.75	.67	.48	MRT 200
250mA	507-1105-ND	.75	.67	.48	MRT 250
315mA	507-1106-ND	.75	.67	.48	MRT 315
400mA	507-1107-ND	.75	.67	.48	MRT 400
500mA	507-1108-ND	.75	.67	.48	MRT 500
630mA	507-1109-ND	.75	.67	.48	MRT 630
800mA	507-1110-ND	.75	.67	.48	MRT 800
1A	507-1111-ND	.75	.67	.48	MRT 1
1.25A	507-1112-ND	.75	.67	.48	MRT 1.25
1.6A	507-1113-ND	.75	.67	.48	MRT 1.6
2A	507-1114-ND	.75	.67	.48	MRT 2
2.5A	507-1115-ND	.75	.67	.48	MRT 2.5
3.15A	507-1116-ND	.75	.67	.48	MRT 3.15
4A	507-1117-ND	.75	.67	.48	MRT 4
5A	507-1118-ND	.75	.67	.48	MRT 5
6.3A	507-1119-ND	.75	.67	.48	MRT 6.3

MRT Time Lag – Tape and Ammo

Amp Rating	Digi-Key Part No. Long Lead	Tape & Ammo Pricing 1,000	Bel Fuse Part No.
5A	507-1118-3-ND	222.00	MRT 5AMMO

Type RST Time Lag Radial Lead Micro Fuse Series, IEC 127-3, SS4

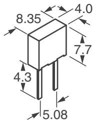

Specifications: • **Voltage Rating:** 250V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Base and Cover: Black thermoplastic, UL 94-V0 Pins: Tin plated copper alloy • **Packaging:** Bulk, 1,000 pieces per box

Electrical Characteristics								
	Test Current							
	150%	210%	275%		400%		1000%	
Rated Current	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
80mA ~ 6.3A inclusive	1 hour	2 minutes	400 ms.	10 sec.	150 ms.	3 sec.	20 ms.	150 ms.

Amp Rating	Digi-Key Part No.	Bulk Price Each 1	10	100	Bel Fuse Part No.
100mA	507-1166-ND	.22	.21	.17	RST 100
125mA	507-1167-ND	.22	.21	.17	RST 125
160mA	507-1168-ND	.22	.21	.17	RST 160
200mA	507-1169-ND	.22	.21	.17	RST 200
250mA	507-1170-ND	.22	.21	.17	RST 250
315mA	507-1171-ND	.22	.21	.17	RST 315
400mA	507-1172-ND	.22	.21	.17	RST 400
500mA	507-1173-ND	.22	.21	.17	RST 50
630mA	507-1174-ND	.22	.21	.17	RST 630
800mA	507-1175-ND	.22	.21	.17	RST 800
1A	507-1176-ND	.22	.21	.17	RST 1
1.25A	507-1177-ND	.22	.21	.17	RST 1.25
1.6A	507-1178-ND	.22	.21	.17	RST 1.6
2A	507-1179-ND	.22	.21	.17	RST 2
2.5A	507-1180-ND	.22	.21	.17	RST 2.5
3.15A	507-1181-ND	.22	.21	.17	RST 3.15
4A	507-1182-ND	.22	.21	.17	RST 4
5A	507-1183-ND	.22	.21	.17	RST 5
6.3A	507-1184-ND	.22	.21	.17	RST 6.3

Type MQ and MS Micro Fuses

Electrical Characteristics		
	Blow Time	
Test Current	Minimum	Maximum
100%	4 hrs	N/A
200%	N/A	30 sec.

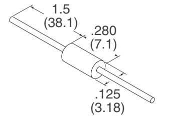

Specifications: • **Voltage Rating:** 125V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Body: Molded with UL Recognized epoxy component plastic UL94-V0. Lead Wire: Tin-Lead plated Copper • **Packaging:** Bulk: 250 pieces per bag/1,000 pieces per box; Tape and Reel: 2,500 pieces per reel (5mm pitch and 52.4mm inside Tape spacing (per EIA 296-E and IEC 286-1) • UL/CSA STD 248-14

MQ Fast Acting - Bulk

Amp Rating	Digi-Key Part No.	Bulk Price Each 1	10	100	Bel Fuse Part No.
100mA	507-1004-ND	.76	.68	.49	MQ 100
125mA	507-1005-ND	.76	.68	.49	MQ 125
200mA	507-1007-ND	.76	.68	.49	MQ 200
250mA	507-1008-ND	.76	.68	.49	MQ 250
375mA	507-1010-ND	.76	.68	.49	MQ 375
500mA	507-1011-ND	.76	.68	.49	MQ 500
750mA	507-1012-ND	.76	.68	.49	MQ 750
1A	507-1013-ND	.76	.68	.49	MQ 1
1.5A	507-1014-ND	.76	.68	.49	MQ 1.5
2A	507-1015-ND	.76	.68	.49	MQ 2
2.5A	507-1016-ND	.76	.68	.49	MQ 2.5
3A	507-1017-ND	.76	.68	.49	MQ 3
4A	507-1018-ND	.76	.68	.49	MQ 4
5A	507-1019-ND	.76	.68	.49	MQ 5
7A	507-1020-ND	.76	.68	.49	MQ 7
10A	507-1021-ND	.76	.68	.49	MQ 10
12A	507-1022-ND	.76	.68	.49	MQ 12
15A	507-1023-ND	.76	.68	.49	MQ 15

MS Slow Blow - Bulk

Amp Rating	Digi-Key Part No. Short Lead	Bulk Price Each 1	10	100	Bel Fuse Part No.
250mA	507-1024-ND	.99	.89	.63	MS 250
375mA	507-1026-ND	.99	.89	.63	MS 375
500mA	507-1027-ND	.99	.89	.63	MS 500
750mA	507-1028-ND	.99	.89	.63	MS 750
1A	507-1029-ND	.99	.89	.63	MS 1
1.25A	507-1030-ND	.99	.89	.63	MS 1.25
1.5A	507-1031-ND	.99	.89	.63	MS 1.5
2A	507-1032-ND	.99	.89	.63	MS 2
2.5A	507-1033-ND	.99	.89	.63	MS 2.5
3A	507-1034-ND	.99	.89	.63	MS 3
4A	507-1035-ND	.99	.89	.63	MS 4
5A	507-1036-ND	.99	.89	.63	MS 5
7A	507-1037-ND	.99	.89	.63	MS 7

SCHURTER
ELECTRONIC COMPONENTS

FSF and FST Series 5x20mm Miniature Fuses

Specifications: • Rated Voltage: 250VAC • Ambient Temperature Range: -55°C ~ 125°C • Tube Material: Glass • End Cap Material: Nickel plated copper alloy

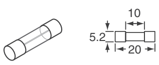

Dim. in mm

Current Rating (A)	Pre-Arcing Rating 1.5 x In (Min.)	2.1 x In (Max.)	2.75 x In (Max.)	10.0 x In (Max.)
FSF Series				
0.25 ~ 6.3 8 ~ 10	60 min. 30 min.	30 min. 30 min.	2 sec. 2 sec.	20 msec. 40 msec.
FST Series				
0.02 0.32 ~ 6.3 8 ~ 20	60 min. 60 min. 30 min.	— 120 sec. 120 sec.	— 10 sec. 10 sec.	300msec. 300 msec. 300 msec.

Rated Current (A)	Breaking Capacity @250VAC	Digi-Key Part No.	Pricing 1	25	50	Schurter Part No.
FSF Series — Fast Acting						
0.25	35A	486-1230-ND	.87	17.35	31.23	0034.1510
0.315	35A	486-1231-ND	.87	17.35	31.23	0034.1511
0.4	35A	486-1232-ND	.87	17.35	31.23	0034.1512
0.5	35A	486-1233-ND	.23	4.50	8.10	0034.1513
1.0	35A	486-1234-ND	.23	4.50	8.10	0034.1516
1.6	35A	486-1235-ND	.23	4.50	8.10	0034.1518
2.0	35A	486-1236-ND	.23	4.50	8.10	0034.1519
2.5	35A	486-1237-ND	.23	4.50	8.10	0034.1520
3.15	35A	486-1238-ND	.23	4.50	8.10	0034.1521
4.0	10In.	486-1239-ND	.23	4.50	8.10	0034.1522
5.0	10In.	486-1240-ND	.23	4.50	8.10	0034.1523
6.3	10In.	486-1241-ND	.32	6.40	11.52	0034.1524
8.0	10In.	486-1242-ND	.32	6.40	11.52	0034.1525
10.0	10In.	486-1243-ND	.32	6.40	11.52	0034.1526
FST Series — Time Lag						
0.02	35A	486-1326-ND†	5.62	112.30	202.14	0034.3101
0.032	35A	486-1327-ND†	5.62	112.30	202.14	0034.3102
0.04	35A	486-1328-ND	5.62	112.30	202.14	0034.3103
0.05	35A	486-1329-ND	.52	10.35	18.63	0034.3104
0.063	35A	486-1330-ND	.52	10.35	18.63	0034.3105
0.08	35A	486-1331-ND	.52	10.35	18.63	0034.3106
0.1	35A	486-1332-ND	.52	10.35	18.63	0034.3107
0.125	35A	486-1333-ND	.52	10.35	18.63	0034.3108
0.16	35A	486-1334-ND	.32	6.30	11.34	0034.3109
0.2	35A	486-1335-ND	.32	6.30	11.34	0034.3110
0.25	35A	486-1214-ND	.53	10.55	18.99	0034.3111
0.315	35A	486-1215-ND	.32	6.30	11.34	0034.3112
0.4	35A	486-1216-ND	.32	6.30	11.34	0034.3113
0.5	35A	486-1217-ND	.32	6.30	11.34	0034.3114
0.63	35A	486-1336-ND	.32	6.30	11.34	0034.3115
0.8	35A	486-1337-ND	.32	6.30	11.34	0034.3116
1.0	35A	486-1338-ND	.32	6.30	11.34	0034.3117
1.25	35A	486-1339-ND	.32	6.30	11.34	0034.3118
1.4	35A	486-1340-ND†	1.31	26.25	47.25	0034.3165
1.6	35A	486-1218-ND	.32	6.30	11.34	0034.3119
2.0	35A	486-1219-ND	.32	6.30	11.34	0034.3120
2.5	35A	486-1220-ND	.32	6.30	11.34	0034.3121
3.15	35A	486-1221-ND	.32	6.30	11.34	0034.3122
4.0	10In.	486-1222-ND	.32	6.30	11.34	0034.3123
5.0	10In.	486-1223-ND	.32	6.30	11.34	0034.3124
6.3	10In.	486-1224-ND	.32	6.30	11.34	0034.3125
8.0	10In.	486-1225-ND	.32	6.30	11.34	0034.3126
10	10In.	486-1226-ND	.32	6.30	11.34	0034.3127
12.5	125A	486-1227-ND†	.52	10.35	18.63	0034.3128
16	125A	486-1228-ND†	.52	10.35	18.63	0034.3129
20	125A	486-1229-ND†	.52	10.35	18.63	0034.3130

† Not VDE Approved

UMT 250 and USI 1206 Series Surface Mount Fuses

UMT 250 Series
Specifications: • Rated Voltage: 250VAC, 125VDC • Ambient Temperature Range: -55°C ~ 125°C • Housing Material: Ceramic • Terminal Material: Tin-plated copper alloy

USI 1206 Series
Specifications: • Rated Voltage: 32VAC, 63VDC • Ambient Temperature Range: -55°C ~ 90°C • Housing Material: Epoxy glass • Terminal Material: Tin-plated copper alloy

Fig. 1

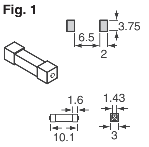

Fig. 2

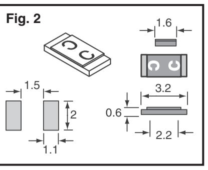

Series	Pre-Arcing Rating 1.25 x In (Min.)	2.0 x In (Max.)	10.0 x In (Min.)	10.0 x In (Max.)
UMT 250 USI 1206	60 min. 60 min.	120 sec. 120 sec.	10 msec. 1 msec.	100 msec. 10 msec.

Rated Current (A)	Breaking Capacity (A)	Digi-Key Part No.	Price Each 1	25	50	Tape and Reel‡ Pricing 1,000	Schurter Part No.
Fig. 1 — UMT 250 Series – 10.1mm x 3mm Time Lag							
0.5	35@250VDC	486-1245-ND	.94	.76	.68	—	3403.0163.11
0.8	35@250VDC	486-1246-ND	.94	.76	.68	—	3403.0165.11
1.0	35@250VDC	486-1247-ND	.94	.76	.68	—	3403.0166.11
1.25	35@250VDC	486-1248-ND	.94	.76	.68	—	3403.0167.11
1.6	35@250VDC	486-1249-ND	.94	.76	.68	—	3403.0168.11
2.0	35@250VDC	486-1250-ND	.94	.76	.68	—	3403.0169.11
2.5	35@250VDC	486-1251-ND	.94	.76	.68	—	3403.0170.11
3.15	35@250VDC	486-1252-ND	.94	.76	.68	—	3403.0171.11
4.0	35@250VDC	486-1253-ND	.94	.76	.68	—	3403.0172.11
5.0	100@250VDC	486-1139-ND†	1.04	.83	.75	—	3403.0173.11
6.3	100@250VDC	486-1140-ND†	1.04	.83	.75	—	3403.0174.11
Fig. 2 — USI 1206 Series – 3.2mm x 1.6mm Fast Acting							
0.5	63@63VDC	486-1141-1-ND	.71	.62	.55	273.00	3413.0213.22
0.63	63@63VDC	486-1142-1-ND	.71	.62	.55	273.00	3413.0214.22
0.8	63@63VDC	486-1143-1-ND	.71	.62	.55	273.00	3413.0215.22
1.0	63@63VDC	486-1144-1-ND	.71	.62	.55	273.00	3413.0216.22
1.25	63@63VDC	486-1145-1-ND	.71	.62	.55	273.00	3413.0217.22
1.6	63@63VDC	486-1146-1-ND	.71	.62	.55	273.00	3413.0218.22
2.0	63@63VDC	486-1147-1-ND	.71	.62	.55	273.00	3413.0219.22
2.5	63@63VDC	486-1148-1-ND	.71	.62	.55	273.00	3413.0220.22
3.15	63@63VDC	486-1149-1-ND	.71	.62	.55	273.00	3413.0221.22
4.0	63@63VDC	486-1150-1-ND	.71	.62	.55	273.00	3413.0222.22
5.0	63@63VDC	486-1151-1-ND	.71	.62	.55	273.00	3413.0223.22
6.3	63@63VDC	486-1152-1-ND	.71	.62	.55	273.00	3413.0224.22

† VDE Approval Only ‡ For Tape and Reel part number, change 1-ND to 2-ND.

PCB and Panel Mount Fuseholders

Dim. in mm

Fig. 1

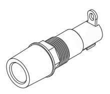

Fig. 2

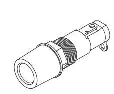

Fig. 3

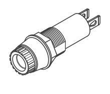

Finger Grip Shown

Fig. 4

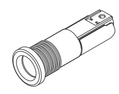

Fig. 5

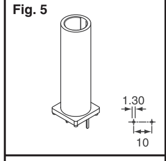

Fig. 6

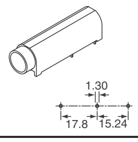

Fig. 7

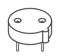

Fig. 8

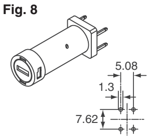

Slot Cap Shown

Fig. 9

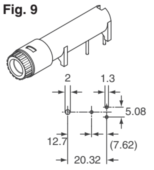

Fig. 10

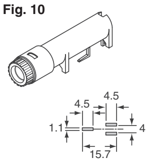

Fig. 11

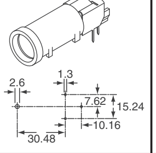

Fig. 12

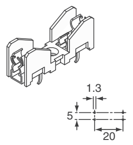

Fig. 13

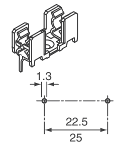

Fig. 14

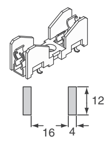

Fig. 15

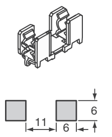

Fig. 16

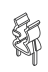

Fig. 17

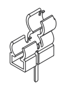

Fig.	Type	Fuse-Link (mm)	Rated Cur-rent (A)	Rated Vol-tage	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
Panel Mount Types — IP40 Rating, Solder Terminals									
FEU (Grip) Series									
1	Holder	5x20 or 6.3x32	10	250	486-1167-ND	1.52	1.22	1.10	0031.1801
	Holder, Slot Cap	5x20	10	250	486-1168-ND	1.70	1.36	1.23	0031.1811
FEU Series									
2	Holder	5x20 or 6.3x32	10	250	486-1164-ND	1.52	1.22	1.10	0031.1653
	Slot Knob Cap	5x20	10	250	486-1165-ND	.83	.67	.60	0031.1663
	Slot Knob Cap	6.3x32	10	250	486-1166-ND	.80	.65	.58	0031.1666
FPG1, FPG2 and FPG3 Series									
3	Holder, Slot Cap	5x20	10	250	486-1153-ND	2.53	2.03	1.83	3101.0010
	Holder, Finger Grip	5x20	10	250	486-1154-ND	2.53	2.03	1.83	3101.0015
	Holder, Slot Cap	5x20	10	250	486-1155-ND‡	2.53	2.03	1.83	3101.0020
	Holder, Finger Grip	5x20	10	250	486-1156-ND‡	2.53	2.03	1.83	3101.0025
	Holder, Slot Cap	5x20	10	250	486-1157-ND§	2.53	2.03	1.83	3101.0030
	Holder, Finger Grip	5x20	10	250	486-1158-ND	2.53	2.03	1.83	3101.0035
FUL Series									
4	Holder	5x20 or 6.3x32	16	500	486-1254-ND	5.57	4.46	4.01	0031.2307
	Slot Knob Cap	5x20	16	500	486-1255-ND	5.03	4.03	3.63	0031.2323
PCB Mount Types — Solder Terminals									
FAC Series — IP40 Rating									
5	Holder	5x20 or 6.3x32	10	250	486-1257-ND	1.83	1.46	1.32	0031.3803
FAU Series — IP40 Rating									
6	Holder	5x20 or 6.3x32	10	250	486-1256-ND	1.53	1.22	1.10	0031.3573
FMS Series — IP30 Rating									
7	Holder	—	6.3	250	486-1244-ND†	.62	.50	.45	0031.7601

‡ Rear Panel Mount § Snap-In Type † Not VDE Approved *(Continued)*

SCHURTER
ELECTRONIC COMPONENTS

PCB and Panel Mount Fuseholders *(Cont.)*

Fig.	Type	Fuse-Link (mm)	Rated Current (A)	Rated Voltage	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
				FPG4 Series					
8	Holder, Slot Cap	5x20	10	250	486-1159-ND	2.53	2.03	1.83	3101.0040
	Holder, Finger Grip	5x20	10	250	486-1160-ND	2.53	2.03	1.83	3101.0045
				FPG5 Series					
9	Holder, Slot Cap	5x20	10	250	486-1161-ND	2.53	2.03	1.83	3101.0050
				FPG7 Series — SMD Solder Terminals					
10	Holder, Finger Grip	5x20	10	250	486-1162-ND	2.53	2.03	1.83	3101.0075
				FUP Series — IP40 Rating					
11	Holder, Slot Cap	5 x 20	16	500	486-1163-ND	9.82	7.86	7.07	0031.2510
				OGD Series					
12	Holder	5x20 or 6.3x32	10	500	486-1261-ND	1.10	.88	.80	0031.8231
				OGN Series					
13	Holder, 22.5mm Spacing	5x20	10	250	486-1258-ND	.53	.43	.38	0031.8201
	Holder, 25mm Spacing	5x20	10	250	486-1259-ND	.53	.43	.38	0031.8211
				Surface Mount Types					
				OGD-SMD Series					
14	Holder	5x20 or 6.3x32	10	500	486-1169-ND	1.26	1.01	.91	0031.8241
				OGN-SMD Series					
15	Holder	5x20	10	250	486-1260-ND	.80	.64	.58	0031.8221
				Fuse Clips					
				Straight Terminal Fuse Clips					
16	Bronze	5x20	6.3	250	486-1173-ND†	.17	.14	.13	0751.0052
17	Bronze	5x20 or 6.3x32	10	250	486-1171-ND†	.51	.41	.37	0751.0099
				Kicked Terminal Fuse Clips					
16	Brass	5x20	6.3	250	486-1172-ND†	.10	.08	.08	0751.0062
17	Brass	5x20 or 6.3x32	10	250	486-1170-ND†	.47	.38	.34	0751.0100

‡ Rear Panel Mount § Snap-In Type † Not VDE Approved

MST 250 Series Time Lag Fuses

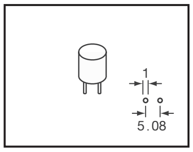

Specifications: Size: 8.5mm x 8.5mm • Rated Voltage: 250VAC • Ambient Temperature Range: -55°C ~ 125°C • Housing Material: Thermoplastic, UL94V-0 • Terminal Material: Tin Plated Copper • Breaking Capacity: 35A @ 250VAC

Pre-Arcing Time				
1.5 x In (Min.)	**2.1 x In (Max.)**	**2.75 x In (Max.)**	**4.0 x In (Max.)**	**10.0 x In (Max.)**
60 min.	120 sec.	10 sec.	3 sec.	150 msec.

Rated Current (A)	Power Dissipation (mW)	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
0.5	310	486-1135-ND	.83	.67	.60	0034.6612
1.0	500	486-1136-ND	.83	.67	.60	0034.6615
1.6	730	486-1137-ND	.83	.67	.60	0034.6617
2.0	870	486-1138-ND	.83	.67	.60	0034.6618

Fast Trip PTC Surface Mount Fuses

TÜV

Specifications: • Operating Temperature Range: -40°C ~ 85°C • Size: 5.4mm x 8.0mm

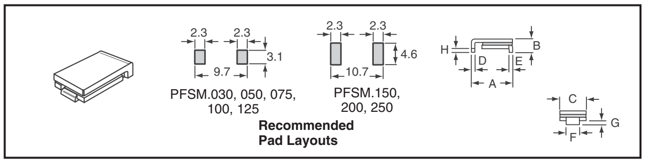

Schurter Part No.	Dimensions Maximum (mm) A	B	C	D	E	F	G	H (Min.)
PFSM.030.2	7.98	3.18	5.44	0.71	0.71	2.41	1.37	0.43
PFSM.050.2	7.98	3.18	5.44	0.71	0.30	2.41	1.37	0.43
PFSM.075.2	7.98	3.18	5.44	0.71	0.71	2.41	1.37	0.43
PFSM.100.2	7.98	3.0	5.44	0.71	0.71	2.41	1.37	0.43
PFSM.125.2	7.98	3.0	5.44	0.71	0.71	2.41	1.37	0.43
PFSM.150.2	9.5	3.0	6.71	0.71	0.71	3.94	1.37	0.43
PFSM.200.2	9.5	3.0	6.71	0.71	0.71	3.94	1.37	0.43
PFSM.250.2	9.5	3.0	6.71	0.71	0.71	3.94	1.37	0.43

I_{max} (A)	V_{max} (V)	Resistance (Ω) Min.	Max.	Digi-Key Part No.	Pricing 1	25	50	Tape and Reel‡ Qty.	Pricing	Schurter Part No.
10	60	1.2	2.4	486-1174-1-ND	.66	14.35	25.42	2,000	253.40/M	PFSM.030.2
10	60	0.35	0.7	486-1175-1-ND	.66	14.35	25.42	2,000	253.40/M	PFSM.050.2
40	30	0.35	0.7	486-1176-1-ND	.66	14.35	25.42	2,000	253.40/M	PFSM.075.2
40	30	0.12	0.24	486-1177-1-ND	.66	14.35	25.42	2,000	253.40/M	PFSM.100.2
40	15	0.07	0.14	486-1178-1-ND	.66	14.35	25.42	2,000	253.40/M	PFSM.125.2
40	15	0.06	0.12	486-1179-1-ND	.75	16.45	29.14	1,500	288.40/M	PFSM.150.2
40	15	0.05	0.10	486-1180-1-ND	.75	16.45	29.14	1,500	288.40/M	PFSM.200.2
40	15	0.035	0.08	486-1181-1-ND	.75	16.45	29.14	1,500	288.40/M	PFSM.250.2

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Sensata
Technologies

Bimetal Cutoff Thermal Switches

These thin, lightweight, wafer-type AIRPAX® thermal switches are ideal for applications when space is at a premium. The basic switch assembly is operated by a bimetal disc with positive, reinforced snap-action which is known for its repeat reliability. For high humidity and contaminating atmosphere applications, the device is sealed with a non-volatile resin.

Specifications: • Contact Rating for 100,000 Life Cycles: ***5003 series:*** 5A resistive, 120VAC; 3A resistive, 240VAC; ***5004 series:*** 10A resistive, 240VAC • Contacts: SPST • Temperature Settings: 35°F ~ 325°F • Dielectric: 1500VRMS 60Hz (1 minimum) terminals to case • Exposure Limit: -40°F ~ 350°F • Self Resetting

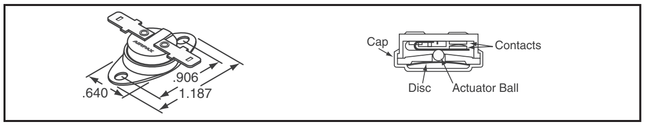

Trip Temperature (°F)	Contact Operation	Switching Current	Digi-Key Part No.	Price Each 1	10	50	Sensata Part No.
			AIRPAX® 5003 Series (Designed for 120VAC and 240VAC)				
105	SPST-NO	5A/120VAC	723-1220-ND	12.32	11.66	9.90	C53GAB105A-090Y
120	SPST-NC	5A/120VAC	723-1225-ND	12.32	11.66	9.90	O53GAB120A-105Y
125	SPST-NC	5A/120VAC	723-1221-ND	12.32	11.66	9.90	O53GAB125A-110Y
165	SPST-NC	5A/120VAC	723-1222-ND	12.32	11.66	9.90	O53GAB165A-150Y
175	SPST-NC	5A/120VAC	723-1224-ND	12.32	11.66	9.90	O53GAB175A-160Y
190	SPST-NO	5A/120VAC	723-1226-ND	12.32	11.66	9.90	C53GAB190A-175Y
215	SPST-NO	5A/120VAC	723-1223-ND	12.32	11.66	9.90	C53GAB215B-190Y
			AIRPAX® 5004 Series (Designed for 240VAC)				
240	SPST-NC	10A/240VAC	723-1227-ND	13.86	13.12	11.14	O54EAB240B-215Y

PCB Mount Thermal Switches

The AIRPAX® 6600 and 6700 series are subminiature bimetallic snap acting thermostats which provide accurate and reliable sensing and switching in a single device. Primarily developed for thermal management applications on power supplies, the AIRPAX® 6600 and 6700 series are also ideally suited for use on crowded PC boards. **Specifications:** • Contact Rating for 30,000 Life Cycles: 1A, 48VDC; 1A, 120VAC • Operating Temperature Range: 6600 Series: 40°C ~ 120°C (104°F ~ 248°F); 6700 Series: 40°C ~ 120°C (104°F ~ 266°F) • Insulation Resistance: 100MΩ at 500VDC • Self Resetting

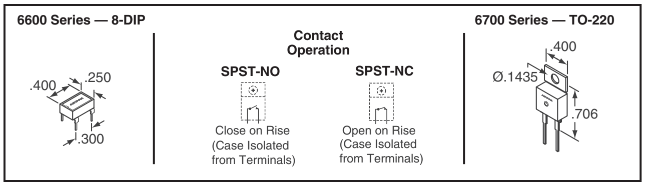

Trip Temperature (°C)	Contact Operation	Digi-Key Part No.	Price Each 1	10	50	Sensata Part No.
		6600 Series — 8-DIP				
60	SPST-NO	723-1216-ND	8.78	8.44	7.65	66F060
70	SPST-NC	723-1211-ND	8.78	8.44	7.65	66L070
80	SPST-NC	723-1215-ND	8.78	8.44	7.65	66L080
85	SPST-NC	723-1210-ND	8.78	8.44	7.65	66L085
85	SPST-NO	723-1212-ND	8.78	8.44	7.65	66F085
90	SPST-NC	723-1218-ND	8.78	8.44	7.65	66L090
90	SPST-NO	723-1214-ND	8.78	8.44	7.65	66F090
95	SPST-NC	723-1219-ND	8.78	8.44	7.65	66L095
95	SPST-NO	723-1217-ND	8.78	8.44	7.65	66F095
120	SPST-NO	723-1213-ND	8.78	8.44	7.65	66F120
		6700 Series — TO-220				
45	SPST-NO	723-1191-ND	8.78	8.44	7.65	67F045
50	SPST-NC	723-1203-ND	9.75	9.38	8.50	67L050
50	SPST-NO	723-1192-ND	8.78	8.44	7.65	67F050
60	SPST-NC	723-1204-ND	9.75	9.38	8.50	67L060
60	SPST-NO	723-1193-ND	8.78	8.44	7.65	67F060
65	SPST-NC	723-1205-ND	8.78	8.44	7.65	67L065
65	SPST-NO	723-1194-ND	8.78	8.44	7.65	67F065
70	SPST-NC	723-1206-ND	8.78	8.44	7.65	67L070
70	SPST-NO	723-1190-ND	8.78	8.44	7.65	67F070
75	SPST-NC	723-1207-ND	8.78	8.44	7.65	67L075
75	SPST-NO	723-1195-ND	8.78	8.44	7.65	67F075
80	SPST-NC	723-1187-ND	8.78	8.44	7.65	67L080
80	SPST-NO	723-1189-ND	8.78	8.44	7.65	67F080
85	SPST-NC	723-1188-ND	8.78	8.44	7.65	67L085
85	SPST-NO	723-1196-ND	8.78	8.44	7.65	67F085
90	SPST-NC	723-1186-ND	8.78	8.44	7.65	67L090
90	SPST-NO	723-1182-ND	8.78	8.44	7.65	67F090
90	SPST-NO	723-1197-ND†	8.78	8.44	7.65	67F090P
95	SPST-NC	723-1208-ND	8.78	8.44	7.65	67L095
95	SPST-NO	723-1185-ND	8.78	8.44	7.65	67F095
95	SPST-NO	723-1198-ND†	9.75	9.38	8.50	67F095P
100	SPST-NC	723-1184-ND	8.78	8.44	7.65	67L100
100	SPST-NO	723-1181-ND	8.78	8.44	7.65	67F100
105	SPST-NO	723-1179-ND	8.78	8.44	7.65	67F105
110	SPST-NC	723-1183-ND	9.75	9.38	8.50	67L110
110	SPST-NO	723-1180-ND	8.78	8.44	7.65	67F110
110	SPST-NO	723-1199-ND†	8.78	8.44	7.65	67F110P
115	SPST-NO	723-1200-ND	8.78	8.44	7.65	67F115
120	SPST-NC	723-1209-ND	9.75	9.38	8.50	67L120
120	SPST-NO	723-1201-ND	8.78	8.44	7.65	67F120
130	SPST-NO	723-1202-ND	8.78	8.44	7.65	67F130

† With plastic mounting bracket, for applications requiring VDE

CANTHERM

Encapsulated Thermal Switches

Encapsulated Thermal Switches are ideal for sensing the temperature of a surface or of stagnant air in an enclosure. Available with PC pins or with flexible wire leads for remote installation. Their high temperature resistance and high dielectric strength make it ideal for protecting heatsink-mounted semiconductors. Other applications would be protecting power supplies, or simply turning on a fan at a desired temperature.

Current Sensitivity: The thermal switches are not current sensitive at rated currents. At loads above the rated values, up to maximum loading there is self-heating of the current carrying contacts.

Insulation Resistance: Leads to Earth: 2500V @ 25°C, 1500V @ 100°C. Across open contacts, dependent on response temperature: 500V eff. AC.

Marking: Response temperature in clear text (5°C steps). Normally Closed = blue or black (epoxy); Normally Open = red (epoxy)

UL E46827 CSA LR28044-10 VDE 4523-4510-0702/329CU

Leaded

Dim. in inches (mm)

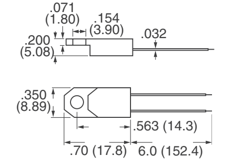

PC Pins

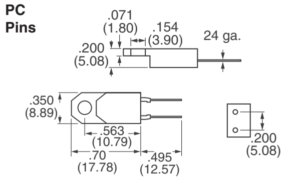

Electrical Specifications

Type	N/C	N/O
Voltage Rating 50-60 Hz	120 V / 250 V	120 V / 250 V
Current Rating Resistive	3.0 A / 2.0 A	1 A / 1 A*
Current Rating Inductive	1.8 A / 1.2 A	1 A / 1 A
Max. Load Resistive	4.0 A	4.0 A
Short Circuit Current Up to	6.3 A	6.3 A
Contact Arrangement Normally Closed N/C Normally Open N/O	—○—○—	—○╲○—
Contact Resistance	< 40 mΩ	< 40 mΩ
Response Temperature Range	70°C ~ 160° C	65°C ~ 150°C
Tolerance Range	±5°C	±5°C
Max. Permanent Temperature of Housing - G410	220°C	220°C
Housing Material - G410	PPS	PPS
Thermal Conductivity	4.0 BTU - in. / hr. / ft^2 / °F	

* When N/O contacts are closed, self heating will occur at currents exceeding normal rating. It is possible that, given certain combinations of set temperature current and ambient temperature, the contacts will not reset.

Switch Temp. (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
Thermal Switches With Leads						
Normally Closed						
70	317-1000-ND	6.56	5.74	4.84	3.33	F1107025ACFA06E
75	317-1001-ND	6.56	5.74	4.84	3.33	F1107525ACFA06E
80	317-1002-ND	6.56	5.74	4.84	3.33	F1108025ACFA06E
85	317-1003-ND	6.56	5.74	4.84	3.33	F1108525ACFA06E
90	317-1004-ND	6.56	5.74	4.84	3.33	F1109025ACFA06E
95	317-1005-ND	6.56	5.74	4.84	3.33	F1109525ACFA06E
100	317-1006-ND	6.56	5.74	4.84	3.33	F1110025ACFA06E
105	317-1007-ND	6.56	5.74	4.84	3.33	F1110525ACFA06E
110	317-1008-ND	6.56	5.74	4.84	3.33	F1111025ACFA06E
115	317-1009-ND	6.56	5.74	4.84	3.33	F1111525ACFA06E
120	317-1010-ND	6.56	5.74	4.84	3.33	F1112025ACFA06E
125	317-1011-ND	6.56	5.74	4.84	3.33	F1112525ACFA06E
130	317-1012-ND	6.56	5.74	4.84	3.33	F1113025ACFA06E
135	317-1013-ND	6.56	5.74	4.84	3.33	F1113525ACFA06E
140	317-1014-ND	6.56	5.74	4.84	3.33	F1114025ACFA06E
145	317-1015-ND	6.56	5.74	4.84	3.33	F1114525ACFA06E
150	317-1016-ND	6.56	5.74	4.84	3.33	F1115025ACFA06E
155	317-1017-ND	6.56	5.74	4.84	3.33	F1115525ACFA06E
160	317-1018-ND	6.56	5.74	4.84	3.33	F1116025ACFA06E
Normally Open						
70	317-1019-ND	8.52	7.46	6.28	4.32	F1107015ACFA06E
75	317-1020-ND	8.52	7.46	6.28	4.32	F1107515ACFA06E
80	317-1021-ND	8.52	7.46	6.28	4.32	F1108015ACFA06E
85	317-1022-ND	8.52	7.46	6.28	4.32	F1108515ACFA06E
90	317-1023-ND	8.52	7.46	6.28	4.32	F1109015ACFA06E
95	317-1024-ND	8.52	7.46	6.28	4.32	F1109515ACFA06E
100	317-1025-ND	8.52	7.46	6.28	4.32	F1110015ACFA06E
105	317-1026-ND	8.52	7.46	6.28	4.32	F1110515ACFA06E
110	317-1027-ND	8.52	7.46	6.28	4.32	F1111015ACFA06E
115	317-1028-ND	8.52	7.46	6.28	4.32	F1111515ACFA06E
120	317-1029-ND	8.52	7.46	6.28	4.32	F1112015ACFA06E
125	317-1030-ND	8.52	7.46	6.28	4.32	F1112515ACFA06E
130	317-1031-ND	8.52	7.46	6.28	4.32	F1113015ACFA06E
135	317-1032-ND	8.52	7.46	6.28	4.32	F1113515ACFA06E
140	317-1033-ND	8.52	7.46	6.28	4.32	F1114015ACFA06E
145	317-1034-ND	8.52	7.46	6.28	4.32	F1114515ACFA06E
150	317-1035-ND	8.52	7.46	6.28	4.32	F1115015ACFA06E
Thermal Switches With PC Pins						
Normally Closed						
70	317-1038-ND	6.56	5.74	3.83	3.28	F11070251ZA0060
75	317-1039-ND	6.56	5.74	3.83	3.28	F11075251ZA0060
85	317-1041-ND ***NEW!***	6.56	5.74	3.83	3.28	F11085251ZA0060
90	317-1042-ND ***NEW!***	6.56	5.74	3.83	3.28	F11090251ZA0060
120	317-1048-ND	6.56	5.74	4.84	3.33	F11120251ZA0060
125	317-1049-ND	6.56	5.74	3.83	3.28	F11125251ZA0060
135	317-1051-ND	6.56	5.74	4.84	3.33	F11135251ZA0060
140	317-1052-ND	6.56	5.74	4.84	3.33	F11140251ZA0060
145	317-1053-ND	6.56	5.74	4.84	3.33	F11145251ZA0060
150	317-1054-ND	6.56	5.74	4.84	3.33	F11150251ZA0060
155	317-1055-ND	6.56	5.74	4.84	3.33	F11155251ZA0060
160	317-1056-ND	6.56	5.74	4.84	3.33	F11160251ZA0060
70	317-1321-ND	6.56	5.74	3.83	3.28	F11070253600060
75	317-1322-ND	6.56	5.74	3.83	3.28	F11075253600060
80	317-1323-ND	6.56	5.74	3.83	3.28	F11080253600060
85	317-1324-ND	6.56	5.74	3.83	3.28	F11085253600060
90	317-1325-ND	6.56	5.74	3.83	3.28	F11090253600060
95	317-1326-ND	6.56	5.74	3.83	3.28	F11095253600060
100	317-1318-ND	6.56	5.74	4.84	3.33	F11100253600060
105	317-1319-ND	6.56	5.74	4.84	3.33	F11105253600060
110	317-1327-ND	6.56	5.74	3.83	3.28	F11110253600060
115	317-1328-ND	6.56	5.74	3.83	3.28	F11115253600060
120	317-1329-ND	6.56	5.74	3.83	3.28	F11120253600060
125	317-1330-ND	6.56	5.74	3.83	3.28	F11125253600060
130	317-1331-ND	6.56	5.74	3.83	3.28	F11130253600060
135	317-1332-ND	6.56	5.74	3.83	3.28	F11135253600060
140	317-1333-ND	6.56	5.74	3.83	3.28	F11140253600060
145	317-1334-ND	6.56	5.74	3.83	3.28	F11145253600060
150	317-1335-ND	6.56	5.74	3.83	3.28	F11150253600060
155	317-1336-ND	6.56	5.74	3.83	3.28	F11155253600060
160	317-1337-ND	6.56	5.74	3.83	3.28	F11160253600060
Normally Open						
70	317-1057-ND ***NEW!***	8.52	7.46	4.97	4.26	F11070151ZA0060
75	317-1058-ND	8.52	7.46	4.97	4.26	F11075151ZA0060
85	317-1060-ND	8.52	7.46	6.28	4.32	F11085151ZA0060
90	317-1061-ND ***NEW!***	8.52	7.46	4.97	4.26	F11090151ZA0060
115	317-1066-ND	8.52	7.46	6.28	4.32	F11115151ZA0060
125	317-1068-ND	8.52	7.46	6.28	4.32	F11125151ZA0060
130	317-1069-ND	8.52	7.46	6.28	4.32	F11130151ZA0060
135	317-1070-ND	8.52	7.46	6.28	4.32	F11135151ZA0060
140	317-1071-ND	8.52	7.46	6.28	4.32	F11140151ZA0060
145	317-1072-ND	8.52	7.46	6.28	4.32	F11145151ZA0060
150	317-1073-ND	8.52	7.46	6.28	4.32	F11150151ZA0060
155	317-1074-ND	8.52	7.46	6.28	4.32	F11155151ZA0060
160	317-1075-ND	8.52	7.46	6.28	4.32	F11160151ZA0060
95	317-1321-ND	8.52	7.46	4.97	4.26	F11080153600060
85	317-1342-ND	8.52	7.46	4.97	4.26	F11085153600060
90	317-1343-ND	8.52	7.46	4.97	4.26	F11090153600060
100	317-1344-ND	8.52	7.46	4.97	4.26	F11100153600060
105	317-1345-ND	8.52	7.46	4.97	4.26	F11105153600060
110	317-1346-ND	8.52	7.46	4.97	4.26	F11110153600060
115	317-1347-ND	8.52	7.46	4.97	4.26	F11115153600060
120	317-1348-ND	8.52	7.46	4.97	4.26	F11120153600060
125	317-1349-ND	8.52	7.46	4.97	4.26	F11125153600060
130	317-1350-ND	8.52	7.46	4.97	4.26	F11130153600060
135	317-1351-ND	8.52	7.46	4.97	4.26	F11135153600060
140	317-1352-ND	8.52	7.46	4.97	4.26	F11140153600060
145	317-1353-ND	8.52	7.46	4.97	4.26	F11145153600060
150	317-1354-ND	8.52	7.46	4.97	4.26	F11150153600060

Bi-metal Cutouts, Temperature Regulators / Temperature Limiters

The thermal response works a bimetal snap element electrically connected to the switch contact. The switch system is current insensitive. The thermal switches react only to external thermal effects. Double contacts ensure high switch performance and long service life. The housing, base, and the mounting brackets are voltage-free (Standard version: base and mounting brackets are aluminum-plated steel). Heat transfer occurs directly through the metallic base via convection, radiation and conduction in gaseous and solid media. The mounting flange is floating and can be rotated to any desired position with respect to the electrical terminals. ***Please note: Reset temperature will be between 5°C ~ 50°C below the standard response temperature.***

ADVANTAGES:

- High pressure resistance
- High response sensitivity
- Numerous applications
- Various housings, connections and mounting styles

UL E48909 CSA LR85477-1 VDE 4523-4610-1008

Electrical Specifications

Voltage Rating 50-60Hz	120V / 250V
Current Rating Resistive	15A / 10.0A
Current Rating Inductive	6.3A
Maximum Load Resistive	20A / 16A
Contact Resistance	< 50mΩ
Nominal Temperature Range	0°C ~ 170°C
Tolerance Range	±5°C
Maximum Permanent Temperature	175°C
Housing Material	Duroplast
Overall Height (mm)	9.5 (+0.2)
Contacts: Normally Closed —○—○—	Normally Open —○╲○—

Dim. in inches (mm)

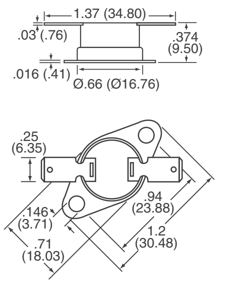

Switch Temperature (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
Normally Closed						
15	317-1076-ND	8.80	7.70	6.40	4.22	R2001525
30	317-1077-ND	8.80	7.70	6.40	4.22	R2003025
35	317-1078-ND	8.80	7.70	6.40	4.22	R2003525
40	317-1079-ND	6.92	6.06	5.03	3.32	R2004025
45	317-1080-ND	6.92	6.06	5.03	3.32	R2004525
50	317-1081-ND	6.92	6.06	5.10	3.36	R2005025
60	317-1082-ND	6.92	6.06	5.10	3.36	R2006025
65	317-1083-ND	6.92	6.06	5.10	3.36	R2006525
70	317-1084-ND	6.92	6.06	5.10	3.36	R2007025
75	317-1085-ND	6.92	6.06	5.10	3.36	R2007525
80	317-1086-ND	6.92	6.06	5.10	3.36	R2008025
85	317-1087-ND	6.92	6.06	5.10	3.36	R2008525
90	317-1088-ND	6.92	6.06	5.10	3.36	R2009025
95	317-1089-ND	6.92	6.06	5.10	3.36	R2009525
100	317-1090-ND	6.92	6.06	5.10	3.36	R2010025
115	317-1091-ND	6.92	6.06	5.10	3.36	R2011525
Normally Open						
35	317-1092-ND	8.80	7.70	6.48	4.27	R2003515
40	317-1093-ND	8.80	7.70	6.48	4.27	R2004015
50	317-1094-ND	6.92	6.06	5.04	3.32	R2005015
60	317-1095-ND	6.92	6.06	5.04	3.32	R2006015
80	317-1096-ND	6.92	6.06	5.04	3.32	R2008015
100	317-1097-ND	6.92	6.06	5.04	3.32	R2010015

TS3 Series Moxie® Thermal Sensors

Dimensions in inches

Moxies are variable resistance NTC thermal sensors having a highly specific "transition region". Within this transition region the devices exhibit a coefficient from -40%/°C to -200%/°C. Below the transition region they exhibit a linear "thermistor" characteristic of -2 to -4%/°C.

Technical Data: • Maximum Allowable Operating Temperature: 120°C • Minimum Allowable Operating Temperature: -40°C • Maximum Allowable Operating Voltage @ 25°C: 125Vac • Maximum Allowable Operating Power (Any Temperature): Normal use less or equal to 0.5mWatt • Insulation Strength (Between Leads and Cap): 600Vdc • Conductors: Gold plated leads

Note: Please see data sheet for additional electrical characteristics.

Fig.	Switching Temperature	Digi-Key Part No.	Price Each 1	10	50	Cantherm Part No.
1	57°C	317-1098-ND	7.48	6.55	4.40	TS3-57
2	57°C	317-1099-ND	8.24	7.21	4.80	TS3-57B3
3	57°C	317-1100-ND	8.24	7.21	4.80	TS3-57C3
1	65°C	317-1101-ND	7.48	6.55	4.40	TS3-65
2	65°C	317-1102-ND	8.24	7.21	4.80	TS3-65B3
3	65°C	317-1103-ND	8.24	7.21	4.80	TS3-65C3
1	75°C	317-1104-ND	7.48	6.55	4.40	TS3-75
2	75°C	317-1105-ND	8.24	7.21	4.80	TS3-75B3
3	75°C	317-1106-ND	8.24	7.21	4.80	TS3-75C3
1	85°C	317-1107-ND	10.29	9.35	8.81	TS3-85
2	85°C	317-1108-ND	11.33	10.30	9.58	TS3-85B3
3	85°C	317-1109-ND	11.33	10.30	9.58	TS3-85C3

TYPICAL RESPONSE CHARACTERISTICS

Temp. Coefficient (%/°C)	TS3-57	TS3-65	TS3-75	TS3-85
Pre-Transition	-2.0	-4.0	-3.5	-3.0
Transition	-100	-200	-70	-40
Post-Transition	-0.25	-0.5	-1.0	-1.5

Fig. 1

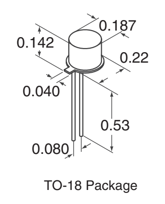

TO-18 Package

Fig. 2

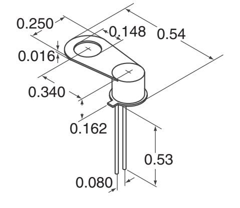

Fig. 3

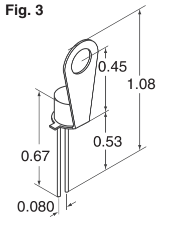

YGM Series PTC Thermistors

PTC thermistors act as thermal protection for electrical machines, and are well known particularly as motor-protectors. PTC thermistors have a non-linear resistance/temperature response, and at a specified temperature the resistance changes rapidly to a very high value.

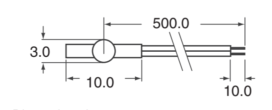

Dimensions in mm

Technical Data:

• Maximum Allowable Operating Temperature: 200°C **• Maximum Allowable Operating Voltage at 25°C:** U maximum 25V **• Maximum Allowable Power Dissipation at 25°C:** 690mW **• Insulation strength (between leads and outer insulation) also for threaded sensor:** 2.5kV

Response Temperature	Wire Color Code	Digi-Key Part No.	Price Each 1	10	50	Cantherm Part No.
80°C	White - White	317-1110-ND	6.68	5.85	3.90	YGM1-C508
90°C	Green - Green	317-1111-ND	6.68	5.85	3.90	YGM1-C509
100°C	Red - Red	317-1112-ND	6.68	5.85	3.90	YGM1-C510
110°C	Brown - Brown	317-1113-ND	6.68	5.85	3.90	YGM1-C511
120°C	Grey - Grey	317-1114-ND	6.68	5.85	3.90	YGM1-C512
130°C	Blue - Blue	317-1115-ND	6.68	5.85	3.90	YGM1-C513
140°C	White - Blue	317-1116-ND	6.68	5.85	3.90	YGM1-C514
145°C	White - Black	317-1117-ND	6.68	5.85	3.90	YGM1-C545
150°C	Black - Black	317-1118-ND	6.68	5.85	3.90	YGM1-C515
155°C	Blue - Black	317-1119-ND	6.68	5.85	3.90	YGM1-C655
160°C	Blue - Red	317-1120-ND	6.68	5.85	3.90	YGM1-C516
170°C	White - Green	317-1121-ND	6.68	5.85	3.90	YGM1-C517
180°C	Red - White	317-1122-ND	6.68	5.85	3.90	YGM1-C518

Thermal Cut-Offs

Description:
Thermal cut-offs are components which will automatically open a circuit and switch off an appliance, if the permissible operating temperature of the appliance is exceeded.

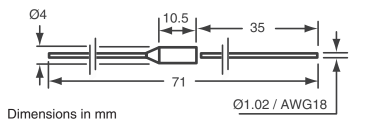

Dimensions in mm

Temperature T_F	Temperature T_H	Digi-Key Part No.	Price Each 1	10	50	Cantherm Part No.
66°C	42°C	317-1123-ND	.98	.86	.58	SDJ1-DF066S
72°C	50°C	317-1124-ND	.98	.86	.58	SDJ1-DF072S
77°C	55°C	317-1125-ND	.98	.86	.58	SDJ1-DF077S
84°C	60°C	317-1126-ND	.98	.86	.58	SDJ1-DF084S
91°C	67°C	317-1127-ND	.98	.86	.58	SDJ1-DF091S
98°C	76°C	317-1128-ND	.98	.86	.58	SDJ1-DF098S
100°C	78°C	317-1129-ND	.98	.86	.58	SDJ1-DF100S
104°C	80°C	317-1130-ND	.98	.86	.58	SDJ1-DF104S
119°C	95°C	317-1132-ND	.98	.86	.58	SDJ1-DF119S
128°C	106°C	317-1133-ND	.98	.86	.58	SDJ1-DF128S
141°C	117°C	317-1134-ND	.98	.86	.58	SDJ1-DF141S
144°C	120°C	317-1135-ND	.98	.86	.58	SDJ1-DF144S
152°C	128°C	317-1136-ND	.98	.86	.58	SDJ1-DF152S
170°C	146°C	317-1137-ND	.98	.86	.58	SDJ1-DF170S
184°C	160°C	317-1138-ND	.98	.86	.58	SDJ1-DF184S
192°C	162°C	317-1139-ND	.98	.86	.58	SDJ1-DF192S
228°C	193°C	317-1141-ND	.98	.86	.58	SDJ1-DF228S
240°C	200°C	317-1142-ND	.98	.86	.58	SDJ1-DF240S

T_F = Functioning Temperature T_H = Holding Temperature

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Magnetic Hydraulic Circuit Breaker

Dim. in mm

Fig. 1

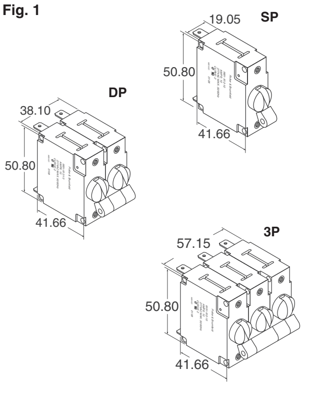

Fig. 2

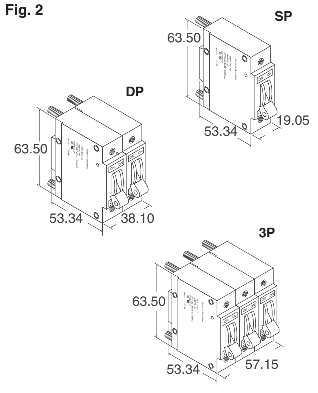

The W6/W9 series are designed for the international market. Magnetic hydraulic breakers are a proven design where the hydraulic delay provides tripping that is highly tolerant to changes in ambient temperatures. W9 units have ON/OFF molded into the area at the base of the toggle.

• **Calibration:** Breakers will hold 100% of rated current. Breakers may trip between 101% and 124% of rated load. Breakers must trip at 125% of rated load and above. • **Operating Temperature:** -40°C ~ 85°C

Current (A)	Description	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
	Fig. 1 — White Toggle Type Actuator					
5	SP, Instantaneous	PB426-ND	21.82	19.09	17.28	W67-X2Q10-5
10	SP, Std Delay, VDE	PB427-ND	21.82	19.09	17.28	W67-X2Q52-10
10	SP, Std Delay	PB592-ND	21.82	19.09	17.28	W67-X2Q12-10
15	SP, Std Delay	PB428-ND	21.82	19.09	17.28	W67-X2Q12-15
20	SP, Std Delay	PB593-ND	21.82	19.09	17.28	W67-X2Q12-20
10	DP, Std Delay	PB429-ND	50.62	44.29	40.08	W68-X2Q12-10
15	DP, Std Delay	PB430-ND	50.62	44.29	40.08	W68-X2Q12-15
20	DP, Std Delay	PB431-ND	50.62	44.29	40.08	W68-X2Q12-20
30	DP, Std Delay	PB594-ND	50.62	44.29	40.08	W68-X2Q12-30
10	3P, Std Delay	PB432-ND	61.90	54.16	49.01	W69-X2Q12-10
	Fig. 2 — Black Toggle Type Actuator					
10	SP, Std Delay	PB433-ND	21.84	19.11	17.29	W91-X112-10
20	SP, Std Delay	PB434-ND	21.84	19.11	17.29	W91-X112-20
1	DP, Std Delay	PB435-ND	50.62	44.29	40.08	W92-X112-1
10	DP, Std Delay	PB595-ND◆	50.62	44.29	40.08	W92-X112-10
15	DP, Std Delay	PB436-ND	50.62	44.29	40.08	W92-X112-15
20	DP, Std Delay	PB437-ND	50.62	44.29	40.08	W92-X112-20
30	DP, Std Delay	PB438-ND	50.62	44.29	40.08	W92-X112-30
50	DP, Std Delay	PB439-ND	50.62	44.29	40.08	W92-X112-50
30	3P, Std Delay	PB596-ND	83.90	73.42	66.43	W93-X112-30
50	3P, Std Delay	PB440-ND	83.90	73.42	66.43	W93-X112-50
	Kit — RoHS Compliant					
	Hardware Toggle Kit for DP	PB817-ND	1.49	1.31	1.18	96-500A

◆ ***RoHS Compliant***

Tyco Electronics P&B
Authorized Distributor

Thermal Circuit Breakers

W28 Series

Replaces slow blow cartridge type fuses. Labor saving snap-in mounting. Button extends for visual trip indication on the push to reset versions. All breakers are black body with white rate marking. Panel thickness of .032" ~ .062" (.81mm ~ 1.57mm) except where noted. Optional push-on lockwasher for panel thickness greater than .105" (2.67mm). **Specifications:** • Maximum operating voltage: 32VDC; 250VAC • Will continuously carry 100% of rated current • **.25 ~ 2 Amp Model** may trip between 101% and 174% of rating within 1 hour, must trip at 175% of rating within 1 hour at 25°C • **3 ~ 20 Amp Model** may trip between 101% and 134% of rating within 1 hour, must trip at 135% of rating within 1 hour at 25°C

Push To Reset Type

Dim. in Inches (mm)

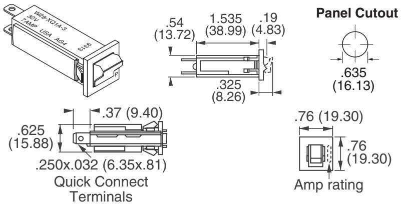

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Push To Reset Type					
0.25	PB180-ND◆	5.09	4.46	4.03	W28-XQ1A-0.25
0.50	PB181-ND◆	5.09	4.46	4.03	W28-XQ1A-0.50
0.75	PB1022-ND◆	5.09	4.46	4.03	W28-XQ1A-0.75
1.0	PB182-ND◆	5.09	4.46	4.03	W28-XQ1A-1
1.0	PB1025-ND◆†	5.09	4.46	4.03	W28-XT1A-1
2.0	PB183-ND◆	5.09	4.46	4.03	W28-XQ1A-2
3.0	PB184-ND◆	2.83	2.48	2.25	W28-XQ1A-3
3.0	PB1028-ND◆†	2.83	2.48	2.25	W28-XT1A-3
4.0	PB185-ND◆	2.83	2.48	2.25	W28-XQ1A-4
5.0	PB186-ND◆	2.83	2.48	2.25	W28-XQ1A-5
5.0	PB1029-ND◆†	2.83	2.48	2.25	W28-XT1A-5
6.0	PB187-ND◆	2.83	2.48	2.25	W28-XQ1A-6
7.0	PB188-ND◆	2.83	2.48	2.25	W28-XQ1A-7
8.0	PB189-ND◆	2.83	2.48	2.25	W28-XQ1A-8
8.0	PB1030-ND◆†	2.83	2.48	2.25	W28-XT1A-8
9.0	PB1024-ND◆	2.83	2.48	2.25	W28-XQ1A-9
10	PB190-ND◆	2.83	2.48	2.25	W28-XQ1A-10
10	PB239-ND◆†	2.83	2.48	2.25	W28-XT1A-10
12	PB191-ND	2.83	2.48	2.25	W28-XQ1A-12
12	PB240-ND†	2.83	2.48	2.25	W28-XT1A-12
15	PB192-ND◆	2.83	2.48	2.25	W28-XQ1A-15
15	PB1026-ND◆†	2.83	2.48	2.25	W28-XT1A-15
16	PB1023-ND◆	2.83	2.48	2.25	W28-XQ1A-16
20	PB425-ND◆	2.83	2.48	2.25	W28-XQ1A-20
20	PB1027-ND◆†	2.83	2.48	2.25	W28-XT1A-20
Internal Lock Washer					
—	PB241-ND◆*	.41	.36	.33	55-025B

◆ ***RoHS Compliant***

† Will mount in .075" ~ .105" (1.91mm ~ 2.67mm) thick panel, all others have std. panel thickness of .032" ~ .062" (.81mm ~ 1.57mm)

* Optional Push-On Lock Washer for panels greater than .105" (2.67mm) thickness.

W58 Series

Button extends for visual trip indication (red trip band). .250" (6.35mm) quick connect terminals or 6/32 screw terminals. Comes complete with knurled nut and hex nut assembled on bushing.
Specifications: • Breaker will continuously carry 100% of rated load. It may trip between 101% and 144% of rated load, but must trip at 145% at 25°C • Maximum operating voltage: 50VDC, 250VAC

Dim. in inches (mm)

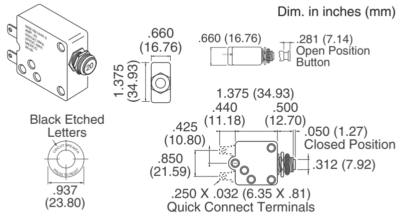

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Push to Reset Breaker — .250 (6.35) QC Terminal					
1.0	PB193-ND◆‡	6.36	5.57	5.04	W58-XB1A4A-1
2.0	PB194-ND◆‡	6.36	5.57	5.04	W58-XB1A4A-2
3.0	PB195-ND◆‡	6.36	5.57	5.04	W5B-XB1A4A-3
3.5	PB1037-ND◆‡	6.36	5.57	5.04	W58-XB1A4A-3.5
4.0	PB196-ND◆‡	6.36	5.57	5.04	W58-XB1A4A-4
5.0	PB197-ND‡	4.56	3.99	3.61	W58-XB1A4A-5
6.0	PB198-ND◆‡	4.56	3.99	3.61	W58-XB1A4A-6
7.0	PB199-ND‡	4.56	3.99	3.61	W58-XB1A4A-7
8.0	PB200-ND‡	4.56	3.99	3.61	W58-XB1A4A-8
10	PB201-ND‡	4.56	3.99	3.61	W58-XB1A4A-10
12	PB202-ND‡	4.56	3.99	3.61	W58-XB1A4A-12
15	PB203-ND◆‡	4.56	3.99	3.61	W58-XB1A4A-15
20	PB204-ND◆‡	4.56	3.99	3.61	W58-XB1A4A-20
25	PB205-ND◆‡	4.56	3.99	3.61	W58-XB1A4A-25
30	PB206-ND◆‡	4.56	3.99	3.61	W58-XB1A4A-30
Push to Reset Breaker — 6-32 Screw Terminal					
1.0	PB242-ND†	6.36	5.57	5.04	W58-XC4C12A-1
2.0	PB243-ND†	6.36	5.57	5.04	W58-XC4C12A-2
3.0	PB244-ND†	6.36	5.57	5.04	W58-XC4C12A-3
5.0	PB245-ND◆†	5.16	4.52	4.09	W58-XC4C12A-5
7.0	PB246-ND†	5.16	4.52	4.09	W58-XC4C12A-7
10	PB247-ND†	5.16	4.52	4.09	W58-XC4C12A-10
15	PB248-ND†	5.16	4.52	4.09	W58-XC4C12A-15
20	PB249-ND†	5.16	4.52	4.09	W58-XC4C12A-20
25	PB250-ND†	5.16	4.52	4.09	W58-XC4C12A-25

◆ ***RoHS Compliant***

‡ White button, Red Marking, Red Trip Band

† White button, Black Marking, Red Trip Band

W54 Series Push to Reset Only Thermal Circuit Breaker

Dim. in Inches (mm)

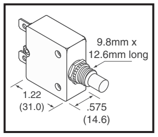

Features:

- New Inexpensive Design
- Can not be manually tripped
- Includes Mounting Hardware

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
5	PB1043-ND	2.78	2.44	2.21	W54-XB1A4A10-5
10	PB1044-ND	2.78	2.44	2.21	W54-XB1A4A10-10
15	PB1045-ND	2.78	2.44	2.21	W54-XB1A4A10-15
20	PB1046-ND	2.78	2.44	2.21	W54-XB1A4A10-20
25	PB1047-ND†	3.10	2.71	2.46	W54-XB1A4A10-25
30	PB1048-ND†	3.10	2.71	2.46	W54-XB1A4A10-30
35	PB1049-ND†‡	3.89	3.41	3.08	W54-XB1A4A10-35
Optional Protective Boot					
—	PB1136-ND	1.32	1.16	1.05	1-1423696-6

† Not VDE Approved ‡ Not UL Approved

Accessories for W58 and W54 Series

Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
"Push to Reset" disk for panel, use with 6-32 Screw Terminal Types				
PB253-ND◆	.38	.34	.31	33-012A
"Push to Reset" disk for panel, use with .250 (6.35) QC Terminal Types				
PB254-ND◆	.43	.38	.35	33-012C
Knurled Nut, Silver Plated, use with .250 (6.35) QC Terminal Types				
PB255-ND◆	.62	.55	.50	55-010A
Knurled Nut, Black, use with 6-32 Screw Terminal Types				
PB256-ND◆	1.03	.91	.82	55-010E

◆ ***RoHS Compliant***

W23 and W31 Series

Two series of thermal circuit breakers with your choice of push/pull actuation or toggle actuation. W23 series (push/pull) has a visual trip indicator to quickly determine circuit breaker status. W31 series (toggle) offers an On/Off switch combined with circuit protection. Both series have amperage marking on the end of the actuator and 8-32 screw terminals. Single Pole only.
Features: • **Calibration:** Will continuously carry 100% of rating, may trip between 101% and 134% of rating at 25°C. Must trip at 135% in one hour • **Maximum Operating Voltages:** 50VDC or 250VAC (to 400Hz) • **Dielectric Strength:** Over 1,500 volts RMS • **Endurance Cycling:** More than 6,000 cycles at 100% of rating, or 10,000 mechanical cycles • **Termination:** Two #8-32 screw terminals
Agency Approvals: W23 and W31 are UL 1077 Recognized as Supplementary Protectors. File E69543, and CSA Certified as Appliance Component Protectors, File LR15734

Dim. in mm

Fig. 1 — W23 Series

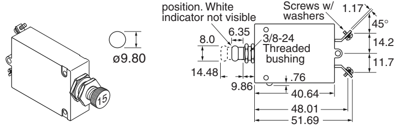

Fig. 2 — W31 Series

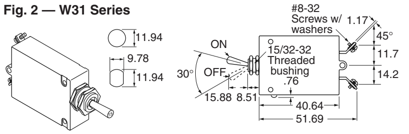

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Fig. 1 — Push/Pull Type					
1.0	PB399-ND	34.99	30.62	27.71	W23-X1A1G-1
2.0	PB400-ND◆	34.99	30.62	27.71	W23-X1A1G-2
3.0	PB401-ND	34.99	30.62	27.71	W23-X1A1G-3
5.0	PB402-ND	22.80	19.95	18.05	W23-X1A1G-5
7.5	PB403-ND	22.80	19.95	18.05	W23-X1A1G-7.50
10	PB404-ND	22.80	19.95	18.05	W23-X1A1G-10
15	PB405-ND◆	22.80	19.95	18.05	W23-X1A1G-15
20	PB406-ND	22.80	19.95	18.05	W23-X1A1G-20
25	PB407-ND	22.80	19.95	18.05	W23-X1A1G-25
30	PB408-ND	22.80	19.95	18.05	W23-X1A1G-30
35	PB409-ND◆	22.80	19.95	18.05	W23-X1A1G-35
40	PB410-ND	22.80	19.95	18.05	W23-X1A1G-40
50	PB411-ND◆	22.80	19.95	18.05	W23-X1A1G-50
Fig. 2 — Toggle Type					
1.0	PB412-ND	41.04	35.91	32.49	W31-X2M1G-1
2.0	PB413-ND	41.04	35.91	32.49	W31-X2M1G-2
3.0	PB414-ND	41.04	35.91	32.49	W31-X2M1G-3
5.0	PB415-ND	28.37	24.83	22.46	W31-X2M1G-5
7.5	PB416-ND	28.37	24.83	22.46	W31-X2M1G-7.50
10	PB417-ND◆	28.37	24.83	22.46	W31-X2M1G-10
15	PB418-ND	28.37	24.83	22.46	W31-X2M1G-15
20	PB419-ND◆	28.37	24.83	22.46	W31-X2M1G-20
25	PB420-ND	28.37	24.83	22.46	W31-X2M1G-25
30	PB421-ND	28.37	24.83	22.46	W31-X2M1G-30
35	PB422-ND	28.37	24.83	22.46	W31-X2M1G-35
40	PB423-ND	28.37	24.83	22.46	W31-X2M1G-40
50	PB424-ND	28.37	24.83	22.46	W31-X2M1G-50

◆ ***RoHS Compliant***

W57 Series Miniature Thermal Breaker

Electrical Data @ 25°C:
• Calibration: Will continuously carry 100% of rating. May trip between 101% and 134%, but must trip at 135% of rating within one hour at 25°C • Maximum Operating Voltages: 50VDC; 125 or 250VAC. *(Mounting Hardware included.)*
Mechanical/Environmental Data:
• Operating Temperature Range: 0°C ~ 60°C • Termination: .250" quick connects
Agency Approvals:
UL 1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States

Dim. in Inches (mm)

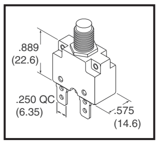

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Metal Bushings (15/32)					
5.0	PB532-ND	1.92	1.68	1.52	W57-XB7A4A10-5
8.0	PB658-ND	1.92	1.68	1.52	W57-XB7A4A10-8
10	PB533-ND	1.85	1.62	1.47	W57-XB7A4A10-10
15	PB534-ND	1.85	1.62	1.47	W57-XB7A4A10-15
20	PB535-ND	2.11	1.85	1.68	W57-XB7A4A10-20
Plastic Bushings (9.8mm)					
5	PB1068-ND	2.45	2.15	1.94	W57-XB1A7A10-5
10	PB1069-ND	2.45	2.15	1.94	W57-XB1A7A10-10
15	PB1070-ND	2.45	2.15	1.94	W57-XB1A7A10-15
20	PB1071-ND†	2.45	2.15	1.94	W57-XB1A7A10-20

† Not VDE Approved

W33 Series

Combination switch and separate circuit breaker in one package. 5-20 Amp versions available in either one circuit breaker with separate switch or 2 circuit breaker option available. Lighted or non-lighted actuator with convenient snap-in mounting. Available in three colors: black, white or amber. Illuminated versions are 120VAC neon lamps. Two breaker models will trip both sides when only 1 side is overdriven. Reset is accomplished with rocker actuator at front of device.
Specifications:
• Breaker will continuously carry 100% of the rated load. It may trip between 101% and 135% of rated load, but must trip at 135% within 1 hour at 25°C • Maximum Operating Voltage: 50VCD, 250VAC

Dim. in Inches (mm)

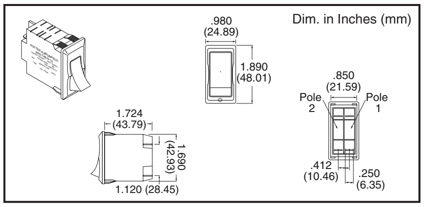

Pole 1/Pole 2 Type	Current (A)	Digi-Key Part No.	Price Each 1	25	Potter & Brumfield Part No.
Switch/Breaker	5.0	PB257-ND†	18.89	16.53	W33-S1N1Q-5
	15	PB259-ND†◆	18.89	16.53	W33-S1N1Q-15
	20	PB260-ND†◆	18.89	16.53	W33-S1N1Q-20
Switch/Breaker, 120V Illum.	5.0	PB1032-ND‡◆	22.90	20.04	W33-S4B1Q-5
	10	PB261-ND‡	22.90	20.04	W33-S4B1Q-10
	15	PB262-ND‡	22.90	20.04	W33-S4B1Q-15
	20	PB1031-ND‡◆	22.90	20.04	W33-S4B1Q-20
2 Breakers	20	PB263-NDΔ◆	26.69	23.36	W33-T2N1Q-20
2 Breakers, 120V Illum.	5.0	PB264-ND‡◆	30.00	26.25	W33-T4B1Q-5
	10	PB265-ND‡◆	30.00	26.25	W33-T4B1Q-10
	15	PB266-ND‡◆	30.00	26.25	W33-T4B1Q-15

◆ ***RoHS Compliant*** † Black ‡ Amber Δ White *(Continued)*

Tyco Electronics P&B
Authorized Distributor

Thermal Circuit Breakers *(Cont.)*

W51 Series Rocker/Breaker Combination

Features:• Compact, trip-free, rocker-actuated design • Provides circuit protection and power switching in a single unit • Snaps into the same cutout as many common power switches

Electrical Data @ 25°C: • Calibration: Will continuously carry 100% of rating. May trip between 101% and 134%, but must trip at 135% of rating within one hour at 25°C • Maximum Operating Voltages: 50VDC; 125 or 250VAC 50/60Hz • Reset Time: 60 Seconds

Mechanical/Environmental Data:• Operating Temperature Range: 0°C ~ 60°C • Termination: .250" quick connects • Illumination Voltage: 120 or 230VAC

Agency Approvals: UL 1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States

Dim. in inches (mm)

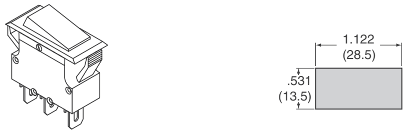

Description	Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Black Body, Non-Illum. Black Rocker	5.0	PB1036-ND◆	3.19	2.80	2.53	W51-A152A1-5
	10	PB1033-ND◆	3.19	2.80	2.53	W51-A152A1-10
	15	PB1034-ND◆	3.19	2.80	2.53	W51-A152A1-15
	20	PB1035-ND◆	3.19	2.80	2.53	W51-A152A1-20
Black Body, 120V Illum. Red Rocker	5.0	PB528-ND	3.34	2.92	2.65	W51-A121B1-5
	10	PB529-ND	3.34	2.92	2.65	W51-A121B1-10
	15	PB530-ND◆	3.34	2.92	2.65	W51-A121B1-15
	20	PB531-ND◆	3.34	2.92	2.65	W51-A121B1-20
Black Body, 230V Illum. Red Rocker	5.0	PB652-ND◆	3.34	2.92	2.65	W51-A122B1-5
	7.0	PB654-ND◆	4.63	4.06	3.67	W51-A122B1-7
	8.0	PB655-ND	3.34	2.92	2.65	W51-A122B1-8
	10	PB677-ND	3.34	2.92	2.65	W51-A122B1-10
	15	PB678-ND	3.34	2.92	2.65	W51-A122B1-15
	20	PB653-ND	3.34	2.92	2.65	W51-A122B1-20

◆ ***RoHS Compliant***

Carling Technologies™

Thermal Circuit Breakers

The CLB Series is a compact, single pole, push-to-reset thermal circuit breaker designed to protect equipment.

Specifications:

• Comes with push-to-reset disk • Dielectric Strength: 1500 VAC/ 1 minute • Interrupting capacity: 1000 amps • Resettable overload capacity: 10 x rated current • Insulation Resistance: 100MΩ • Operating Temperature: -10°C ~ 60°C • Voltage drop: <0.25V

- Mounting hardware included

Dim. in inches (mm)

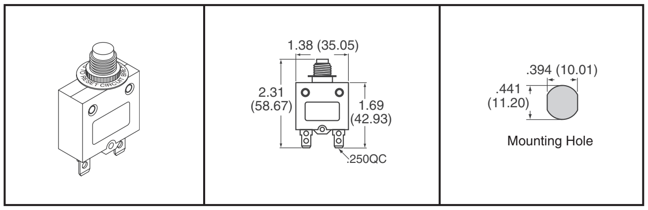

Mounting Hole

Current (A)	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
10	432-1053-ND	2.08	1.82	1.56	CLB-103-11-B-3-A-B-A

Panel Mount Rocker Circuit Breakers

Specifications:

- **Rating:** 125-250VAC, 50VDC
- **Interrupting Capacity:** 1000 amps
- **Insulation Resistance:** 100MΩ

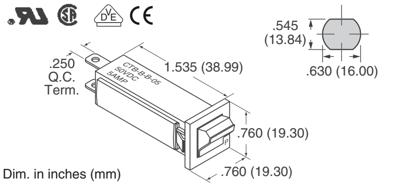

Dim. in inches (mm)

Current (A)	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
9.0	432-1129-ND	2.88	2.52	2.16	CTB-B-B-09

Sensata
Technologies

RoHS COMPLIANT

ATR11 Thermal Circuit Breakers

Thermal circuit breakers from Sensata Technologies, AIRPAX® brand features a trip mechanism of the circuit protector is designed to open the contacts in the event of a current flow in excess of the rated current and in accordance with the time/current characteristics of the device. A bimetal strip deflects and releases the latch mechanism when heated by an overload. The strip has the advantage of being immune to high inrush currents and line transients. *Includes mounting hardware.*

Applications:
- Power Strips
- Single-Phase Motors
- Transformers
- Solenoids
- UPS

Specifications:
- Rated Voltage: 240 VAC, 50/60HZ
- Operating Temperature: 60°C Maximum Ambient
- Dielectric Strength: 1.5 KV for 1 minute (per EN60934)
- Operational Life: 1,000 Cycles @ 2x1n

Dim. in inches (mm)

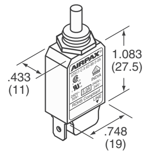

Current (A)	Digi-Key Part No.	Price Each 1	10	25	Sensata Part No.
0.5	723-1119-ND	6.94	6.68	6.41	ATR11-C-X-63-BB-0.5A
1	723-1120-ND	6.94	6.68	6.41	ATR11-C-X-63-BB-1.0A
2	723-1121-ND	6.94	6.68	6.41	ATR11-C-X-63-BB-2.0A
3	723-1122-ND	6.94	6.68	6.41	ATR11-C-X-63BB-3.0A
4	723-1123-ND	6.94	6.68	6.41	ATR11-C-X-63-BB-4.0A
5	723-1124-ND	6.94	6.68	6.41	ATR11-C-X-63-BB-5.0A
6	723-1125-ND	6.94	6.68	6.41	ATR11-C-X-63-BB-6.0A
7	723-1126-ND	6.94	6.68	6.41	ATR11-C-X-63-BB-7.0A
8	723-1127-ND	6.94	6.68	6.41	ATR11-C-X-63-BB-8.0A
10	723-1128-ND	6.94	6.68	6.41	ATR11-C-Y-63-BB-10.0A
12	723-1129-ND	6.94	6.68	6.41	ATR11-C-Y-63-BB-12.0A
15	723-1130-ND	6.94	6.68	6.41	ATR11-C-X-63-BB-15.0A
0.5	723-1131-ND	6.94	6.68	6.41	ATR11-D-X-63-WB-0.5A
1	723-1132-ND	6.94	6.68	6.41	ATR11-D-X-63-WB-1.0A
2	723-1133-ND	6.94	6.68	6.41	ATR11-D-X-63-WB-2.0A
3	723-1134-ND	6.94	6.68	6.41	ATR11-D-X-63-WB-3.0A
4	723-1135-ND	6.94	6.68	6.41	ATR11-D-X-63-WB-4.0A
5	723-1136-ND	6.94	6.68	6.41	ATR11-D-X-63-WB-5.0A
6	723-1137-ND	6.94	6.68	6.41	ATR11-D-X-63-WB-6.0A
7	723-1138-ND	6.94	6.68	6.41	ATR11-D-X-63-WB-7.0A
8	723-1139-ND	6.94	6.68	6.41	ATR11-D-X-63-WB-8.0A
10	723-1140-ND	6.94	6.68	6.41	ATR11-D-Y-63-WB-10.0A
12	723-1141-ND	6.94	6.68	6.41	ATR11-D-Y-63-WB-12.0A
15	723-1142-ND	6.94	6.68	6.41	ATR11-D-X-63-WB-15.0A

ATR20 Thermal Circuit Breakers

RoHS COMPLIANT

Dim. in inches (mm)

Fig. 1

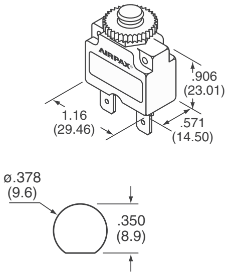

Plastic Mounting Nut

Fig. 2

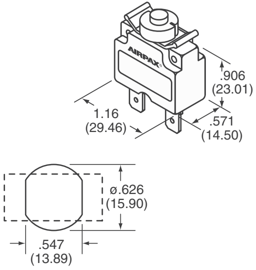

Snap-In

Sensata Technologies, AIRPAX® brand of ATR20 series circuit protector is a single pole, thermally operated, snap-action overload protector, with a manual, push-to-reset mechanism providing reliable 'trip-free' operation on overloads and short-circuits within the maximum capacity specified.

Specifications: • Rated Voltage: 125/250 VAC, 50/60 Hz, 50VDC • Actuation: Reset button, type "R" • Dielectric Strength: 1500VAC for 1 minute • Housing Material: Thermoplastic/Thermoset • Contact Material: Silver Alloy • Terminal Material: Copper Alloy • Applicable Approvals: UL1077, CSA 22.2 No. 235-04, TUV EN 60934

Fig.	Current (A)	Digi-Key Part No.	Price Each 1	10	25	Sensata Part No.
1	5	723-1143-ND	6.94	6.68	6.41	ATR20-A-63S-WB2-B-5.0A-2
	8	723-1144-ND	6.94	6.68	6.41	ATR20-A-63S-WB2-B-8.0A-2
	10	723-1145-ND	6.94	6.68	6.41	ATR20-A-63S-WB2-B-10.0A-2
	12	723-1146-ND	6.94	6.68	6.41	ATR20-A-63S-WB2-B-12.0A-2
	15	723-1147-ND	6.94	6.68	6.41	ATR20-A-63S-WB2-B-15.0A-2
	20	723-1148-ND	6.94	6.68	6.41	ATR20-A-63S-WB2-B-20.0A-2
2	5	723-1149-ND	7.02	6.75	6.48	ATR20-W-63S-B1-N-5.0A-0
	8	723-1150-ND	6.94	6.68	6.41	ATR20-W-63S-B1-N-8.0A-0
	10	723-1151-ND	7.02	6.75	6.48	ATR20-W-63S-B1-N-10.0A-0
	12	723-1152-ND	6.94	6.68	6.41	ATR20-W-63S-B1-N-12.0A-0
	15	723-1153-ND	7.02	6.75	6.48	ATR20-W-63S-B1-N-15.0A-0
	20	723-1154-ND	7.02	6.75	6.48	ATR20-W-63S-B1-N-20.0A-0

Sensata
Technologies

Dim. in
inches (mm)

Magnetic Circuit Breakers

SNAPAK is a AIRPAX® brand, snap-acting magnetic circuit protector that combines power switching and accurate, reliable circuit protection in one aesthetically pleasing package. SNAPAK circuit protectors are UL Recognized as supplementary protectors per UL STD. 1077, CSA Certified as supplementary protectors per CSA STD. C22.2 No. 235. Typical applications include office appliances, electronic data processing, medical equipment, business machines, vending and amusement machines. Push-pull versions are particularly well suited for medical instrumentation, automotive production transfer lines and other applications where accidental turn off is unacceptable.

Fig.	Description	Amps	Digi-Key Part No.	Price Each			Sensata Part No.
				1	10	25	
IE Series Magnetic Breaker							
1	Breaker, SP, Long Delay, White Handle, QC Terminal	10	723-1155-ND	20.72	19.61	17.76	IEG1-1-72-10.0-91-V
		15	723-1156-ND	20.72	19.61	17.76	IEG1-1-72-15.0-91-V
		20	723-1157-ND	20.72	19.61	17.76	IEG1-1-72-20.0-91-V
		25	723-1158-ND	20.72	19.61	17.76	IEG1-1-72-25.0-91-V
		30	723-1159-ND	20.72	19.61	17.76	IEG1-1-72-30.0-91-V
	Breaker, SP, Long Delay White Handle, Screw Terminal	40	723-1160-ND	22.40	21.20	19.20	IEG6-1-72-40.0-91-V
		50	723-1161-ND	22.40	21.20	19.20	IEG6-1-72-50.0-91-V
	Breaker, DP, Long Delay White Handle QC Terminal	10	723-1162-ND	49.14	46.51	42.12	IEGH11-1-72-10.0-91-V
		20	723-1163-ND	49.14	46.51	42.12	IEGH11-1-72-20.0-91-V
		30	723-1164-ND	49.14	46.51	42.12	IEGH11-1-72-30.0-91-V
	Breaker, SP, Long Delay white handle screw terminal	40	723-1165-ND	52.50	49.69	45.00	IEGH66-1-72-40.0-91-V
		50	723-1166-ND	52.50	49.69	45.00	IEGH66-1-72-50.0-91-V
	Breaker, SP, Long Delay White Handle Stud Terminal	50	723-1167-ND	29.82	28.23	25.56	IELK1-1-72-50.0-01-V
		70	723-1168-ND	41.58	39.36	35.64	IELK1-1-72-70.0-01-V
		100	723-1169-ND	41.58	39.36	35.64	IELK1-1-72-100.-01
	Breaker, DP, Long Delay White Handle Stud Terminal	50	723-1170-ND	76.02	71.95	65.16	IELHK11-1-72-50.0-01-V
		70	723-1171-ND	99.68	94.34	85.44	IELHK11-1-72-70.0-01-V
R11 Rocker and PP11 Push-Pull							
2	Rocker Breaker, SP	5	723-1173-ND	19.32	18.29	16.56	R11-4-5.00A-R01CV-V
		4	723-1174-ND	19.32	18.29	16.56	R11-4-4.00A-R01CV-V
		5	723-1175-ND	17.22	16.30	14.76	R11-2-5.00A-B06CV-V
	Rocker Breaker, DP	7.5	723-1176-ND	53.90	51.02	46.20	R21-4-7.50A-B06IV-V
3	Push-Pull, Breaker DP, QC Terminal	10	723-1177-ND	39.34	37.24	33.72	PP21-2-10.0A-OC-V
	Push-Pull Breaker, SP, QC Terminal	2	723-1178-ND	16.52	15.64	14.16	PP11-62-2.00A-OC-V

Fig. 1

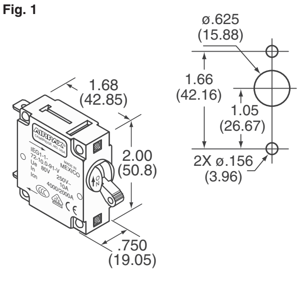

Fig. 2

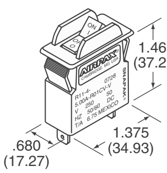

Fig. 3

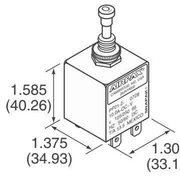

AMERICAN ELECTRICAL INC.

DIN Rail Mounted Circuit Breakers - Hydraulic - Magnetic

Single Pole

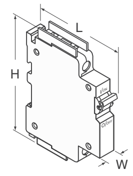

UL 1077 Approved:

• Trip Curve: 2 Standard • Maximum Voltage: 277/480 50/60 Hz • Interrupting Cap: 5000A @ 120V, 1,000A @ 277V, 1000A @ 480V • Dielectric Strength: 1960V 50/60Hz • Insulation Resistance: 100MΩ • Operating Temperature Range: -40°C ~ 60°C

UL 489 Approved:

• Trip Curve: KM Standard • Maximum Voltage: 120/240V 50/60Hz • Interrupting Cap: 10,000A • Dielectric Strength: 1,500V 50/60Hz • Insulation Resistance: 100MΩ • Operating Temperature Range: -40°C ~ 60°C

UL 489A Approved:

• Trip Curve: U2 Standard • Maximum Voltage: 80VDC • Interrupting Cap: 10,000A • Dielectric Strength: 1.500V 50/60Hz • Insulation Resistance: 100MΩ • Operating Temperature Range: -40°C ~ 60°C

Dimensions Inches (mm) L x H x W	No. of Poles	Trip Current (A)	Digi-Key Part No.	Price Each			American Electrical Part No.
				1	10	50	
UL 1077 for AC Current							
2.87 x 3.66 x .51 (73 x 93 x 13)	1	1	288-1204-ND	18.13	16.32	14.50	C1A1P
		2	288-1205-ND	18.13	16.32	14.50	C2A1P
		5	288-1206-ND	18.13	16.32	14.50	C5A1P
		10	288-1207-ND	18.13	16.32	14.50	C10A1P
		15	288-1208-ND	18.13	16.32	14.50	C15A1P
		20	288-1209-ND	18.13	16.32	14.50	C20A1P
		25	288-1210-ND	18.13	16.32	14.50	C25A1P
		30	288-1211-ND	18.13	16.32	14.50	C30A1P
		40	288-1212-ND	18.13	16.32	14.50	C40A1P
		50	288-1213-ND	18.13	16.32	14.50	C50A1P
2.87 x 3.66 x 1.02 (73 x 93 x 26)	2	1	288-1214-ND	36.25	32.63	29.00	C1A2P
		2	288-1215-ND	36.25	32.63	29.00	C2A2P
		5	288-1216-ND	36.25	32.63	29.00	C5A2P
		10	288-1217-ND	36.25	32.63	29.00	C10A2P
		15	288-1218-ND	36.25	32.63	29.00	C15A2P
		20	288-1219-ND	36.25	32.63	29.00	C20A2P
		25	288-1220-ND	36.25	32.63	29.00	C25A2P
		30	288-1221-ND	36.25	32.63	29.00	C30A2P
		40	288-1222-ND	36.25	32.63	29.00	C40A2P
		50	288-1223-ND	36.25	32.63	29.00	C50A2P
2.87 x 3.66 x 1.54 (73 x 93 x 39)	3	1	288-1224-ND	54.38	48.94	43.50	C1A3P
		2	288-1225-ND	54.38	48.94	43.50	C2A3P
		5	288-1226-ND	54.38	48.94	43.50	C5A3P
		10	288-1227-ND	54.38	48.94	43.50	C10A3P
		15	288-1228-ND	54.38	48.94	43.50	C15A3P
		20	288-1229-ND	54.38	48.94	43.50	C20A3P
		25	288-1230-ND	54.38	48.94	43.50	C25A3P
		30	288-1231-ND	54.38	48.94	43.50	C30A3P
		40	288-1232-ND	54.38	48.94	43.50	C40A3P
		50	288-1233-ND	54.38	48.94	43.50	C50A3P
UL 489 for AC Current							
2.91 x 3.66 x .51 (74 x 93 x 13)	1	1	288-1354-ND	22.50	20.25	18.00	C1A1P-489
		2	288-1355-ND	22.50	20.25	18.00	C2A1P-489
		5	288-1356-ND	22.50	20.25	18.00	C5A1P-489
		10	288-1357-ND	22.50	20.25	18.00	C10A1P-489
		15	288-1358-ND	22.50	20.25	18.00	C15A1P-489
		20	288-1359-ND	22.50	20.25	18.00	C20A1P-489
		25	288-1360-ND	22.50	20.25	18.00	C25A1P-489
2.91 x 3.66 x 1.02 (74 x 93 x 26)	2	1	288-1361-ND	45.00	40.50	36.00	C1A2P-489
		2	288-1362-ND	45.00	40.50	36.00	C2A2P-489
		5	288-1363-ND	45.00	40.50	36.00	C5A2P-489
		10	288-1364-ND	45.00	40.50	36.00	C10A2P-489
		15	288-1365-ND	45.00	40.50	36.00	C15A2P-489
		20	288-1366-ND	45.00	40.50	36.00	C20A2P-489
		25	288-1367-ND	45.00	40.50	36.00	C25A2P-489
UL 489A for DC Current							
2.91 x 3.66 x .51 (74 x 93 x 13)	1	1	288-1368-ND	22.50	20.25	18.00	C1A1P-80VDC
		2	288-1369-ND	22.50	20.25	18.00	C2A1P-80VDC
		5	288-1370-ND	22.50	20.25	18.00	C5A1P-80VDC
		10	288-1371-ND	22.50	20.25	18.00	C10A1P-80VDC
		15	288-1372-ND	22.50	20.25	18.00	C15A1P-80VDC
		20	288-1373-ND	22.50	20.25	18.00	C20A1P-80VDC
		25	288-1374-ND	22.50	20.25	18.00	C25A1P-80VDC
		30	288-1375-ND	22.50	20.25	18.00	C30A1P-80VDC
		40	288-1376-ND	22.50	20.25	18.00	C40A1P-80VDC
		50	288-1377-ND	22.50	20.25	18.00	C50A1P-80VDC

NEW! Branch Rated / Supplemental Circuit Protection

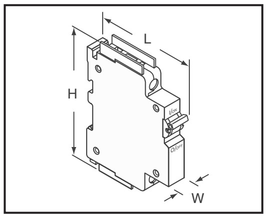

Weidmuller's DIN-rail mounted circuit breakers are available for use in applications where circuit protection must be able to distinguish between circuit overloads and short circuits. Each circuit breaker has the ability to be reset without the need to change components. Circuit breakers in the 9926 Branch Rated Series are UL489 Listed and CSA Certified as branch rated protection devices under CSA 22.2 No. 5-02. The hydraulic magnetic trip mechanism offers 10,000A of interrupting capacity. Breakers in the 9926 Supplement Rated Series are UL1077 recognized.

Mounting Options: If the product is not vertically mounted in the normal DIN-rail mounting orientation, a rating factor must be applied. The published curves for these circuit breaker products are produced with the circuit breaker in the vertical mounting position. The rating factor only applies to the must hold and must trip points of the curve as the other parts (instantaneous trip point) stay largely unaffected.

Dimensions Inches (mm) L x H x W	No. of Poles	Trip Current (A)	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
			UL489 for AC Current				
2.91 x 3.65 x .51 (74 x 92.8 x 13)	1	1	281-2398-ND	20.43	18.39	16.34	9926251001
		2	281-2399-ND	20.43	18.39	16.34	9926251002
		5	281-2400-ND	20.43	18.39	16.34	9926251005
		10	281-2401-ND	20.43	18.39	16.34	9926251010
		15	281-2402-ND	20.43	18.39	16.34	9926251015
		20	281-2403-ND	20.43	18.39	16.34	9926251020
		25	281-2404-ND	20.43	18.39	16.34	9926251025
2.91 x 3.65 x 1.02 (74 x 92.8 x 26)	2	1	281-2405-ND	40.85	36.77	32.68	9926252001
		2	281-2506-ND	40.85	36.77	32.68	9926252002
		5	281-2507-ND	40.85	36.77	32.68	9926252005
		10	281-2508-ND	40.85	36.77	32.68	9926252010
		15	281-2509-ND	40.85	36.77	32.68	9926252015
		20	281-2510-ND	40.85	36.77	32.68	9926252020
		25	281-2511-ND	40.85	36.77	32.68	9926252025
			UL489A for DC Current				
2.91 x 3.65 x .51 (74 x 92.8 x 13)	1	1	281-2512-ND	20.43	18.39	16.34	9926251901
		2	281-2513-ND	20.43	18.39	16.34	9926251902
		5	281-2514-ND	20.43	18.39	16.34	9926251905
		10	281-2515-ND	20.43	18.39	16.34	9926251910
		15	281-2516-ND	20.43	18.39	16.34	9926251915
		20	281-2517-ND	20.43	18.39	16.34	9926251920
		25	281-2518-ND	20.43	18.39	16.34	9926251925
		30	281-2519-ND	20.43	18.39	16.34	9926251930
		35	281-2520-ND	20.43	18.39	16.34	9926251935
		40	281-2566-ND	20.43	18.39	16.34	9926251940
		45	281-2521-ND	20.43	18.39	16.34	9926251945
		50	281-2522-ND	20.43	18.39	16.34	9926251950
		60	281-2523-ND	20.43	18.39	16.34	9926251960
			UL1077 for AC Current				
2.87 x 3.65 x .51 (73 x 92.8 x 13)	1	1	281-2524-ND	16.00	14.56	13.28	9926251501
		2	281-2525-ND	16.00	14.56	13.28	9926251502
		3	281-2526-ND	16.00	14.56	13.28	9926251503
		4	281-2527-ND	16.00	14.56	13.28	9926251504
		5	281-2528-ND	16.00	14.56	13.28	9926251505
		6	281-2529-ND	16.00	14.56	13.28	9926251506
		8	281-2530-ND	16.00	14.56	13.28	9926251508
		10	281-2531-ND	16.00	14.56	13.28	9926251510
		15	281-2532-ND	16.00	14.56	13.28	9926251515
		20	281-2533-ND	16.00	14.56	13.28	9926251520
		25	281-2534-ND	16.00	14.56	13.28	9926251525
		35	281-2535-ND	16.00	14.56	13.28	9926251535
		40	281-2536-ND	16.00	14.56	13.28	9926251540
		50	281-2537-ND	16.00	14.56	13.28	9926251550
		60	281-2538-ND	16.00	14.56	13.28	9926251560
2.87 x 3.65 x 1.02 (73 x 92.8 x 26)	2	1	281-2539-ND	32.00	29.12	26.56	9926252501
		2	281-2540-ND	32.00	29.12	26.56	9926252502
		4	281-2541-ND	32.00	29.12	26.56	9926252504
		5	281-2542-ND	32.00	29.12	26.56	9926252505
		6	281-2543-ND	32.00	29.12	26.56	9926252506
		10	281-2544-ND	32.00	29.12	26.56	9926252510
		15	281-2545-ND	32.00	29.12	26.56	9926252515
		20	281-2546-ND	32.00	29.12	26.56	9926252520
		25	281-2547-ND	32.00	29.12	26.56	9926252525
		30	281-2548-ND	32.00	29.12	26.56	9926252530
		35	281-2549-ND	32.00	29.12	26.56	9926252535
		40	281-2550-ND	32.00	29.12	26.56	9926252540
		50	281-2551-ND	32.00	29.12	26.56	9926252550
		60	281-2552-ND	32.00	29.12	26.56	9926252560
2.87 x 3.65 x 1.54 (73 x 92.8 x 39)	3	10	281-2553-ND	48.00	43.68	39.84	9926253510
		15	281-2554-ND	48.00	43.68	39.84	9926253515
		20	281-2555-ND	48.00	43.68	39.84	9926253520
		25	281-2556-ND	48.00	43.68	39.84	9926253525
		30	281-2557-ND	48.00	43.68	39.84	9926253530
		40	281-2558-ND	48.00	43.68	39.84	9926253540
		50	281-2559-ND	48.00	43.68	39.84	9926253550
		60	281-2560-ND	48.00	43.68	39.84	9926253560

Accessories

Fig. 1

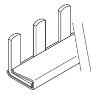

Fig. 2

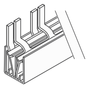

Fig. 3

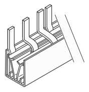

Fig. 4

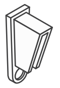

Fig. 5

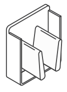

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.
1	Bus bar 1 pole, insulated 1m	281-2561-ND	50.15	45.14	40.12	67101904
2	Bus bar 2 pole, insulated 1m	281-2562-ND	113.40	102.06	90.72	67101972
3	Bus bar 3 pole, insulated 1m	281-2563-ND	169.53	152.58	135.62	67101971
4	Bus bar end cap, 1 pole	281-2564-ND	.65	.59	.52	67101973
5	Bus bar end cap, 2 pole or 3 pole	281-2565-ND	1.30	1.17	1.04	67101974

Combination Rocker/Circuit Breaker Switches - 1410-F Series

E-T-A circuit breakers for equipment are designed as safety critical items for protection during equipment failure. These circuit breakers may be required to operate just occasionally or very often during the life of the equipment and can confidently be reset by inexperienced personnel. All thermal breakers carry 100% rated current continuously and trip within one hour at 140% rating. Miniaturized single pole rocker/thermal circuit breaker combining ON/OFF switching and extremely fast overload performance in a single component. Returning the rocker switch through the OFF position and back ON will reset the mechanism and restore the supply. Illuminated versions – 120VAC lamp

Applications: Motors, transformers, solenoids, PCBs, hand-held machines, appliances, instrumentation. **Voltage Rating:** AC 250V; DC 48 **Ambient Temperature:** -40°C ~ 70°C **Insulation Voltage:** 2.5kV **Dielectric Strength:** AC 3,000V **Agency Approvals:** UL Recognized (UL 1077), CSA, CE, VDE (EN60934); *(See data sheets for details)*

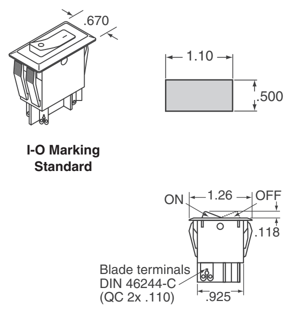

I-O Marking Standard

Current (A)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
	SP, Red Non-Illuminated Actuators — RoHS Compliant				
1	302-1164-ND	11.93	11.13	10.34	1410-F110-P1F1-W14Q-1A
2	302-1165-ND	11.93	11.13	10.34	1410-F110-P1F1-W14Q-2A
5	302-1168-ND	11.93	11.13	10.34	1410-F110-P1F1-W14Q-5A
10	302-1169-ND	11.93	11.13	10.34	1410-F110-P1F1-W14Q-10A
	SP, Red Illuminated Actuators				
1	302-1170-ND◆ ***NEW!***	13.52	12.63	11.72	1410-F110-P1F1-W14QE3-1A
2	302-1171-ND	13.52	12.63	11.72	1410-F110-P1F1-W14QE3-2A
5	302-1174-ND	13.52	12.63	11.72	1410-F110-P1F1-W14QE3-5A
10	302-1175-ND	13.52	12.63	11.72	1410-F110-P1F1-W14QE3-10A

◆ ***RoHS Compliant***

Combination Rocker/Circuit Breaker Switches - 3120 Series

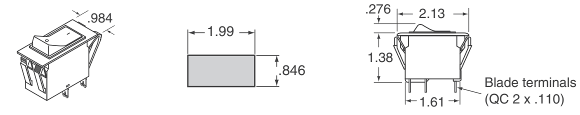

I-O Marking Standard

An extremely versatile range of rocker switch/thermal circuit breakers offering the choice of single pole, double pole with single pole protection, and double pole with protection on both poles. Designed for snap-in panel mounting. Optical magnetic trip coil for short circuit protection available.

Applications: Motors, transformers, solenoids, extra low voltage wiring systems, office machines, electro-medical equipment, power supplies, communications systems.
Voltage Rating: AC 240V; DC 50V **Ambient Temperature:** -30°C ~ 60°C **Insulation Voltage:** 2.5kV **Dielectric Strength:** AC 3,000V (1,500V Double Pole) **Agency Approvals:** UL Recognized (UL 1077), CSA, CE, VDE (EN60934), CCC; *(See data sheets for details)*

Current (A)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
	Single Pole, Black Actuators				
1	302-1176-ND ***NEW!***	13.10	12.23	11.35	3120-F311-P7T1-W01D-1A
5	302-1178-ND	13.10	12.23	11.35	3120-F311-P7T1-W01D-5A
10	302-1179-ND	13.10	12.23	11.35	3120-F311-P7T1-W01D-10A
15	302-1180-ND	13.10	12.23	11.35	3120-F311-P7T1-W01D-15A
20	302-1181-ND	13.10	12.23	11.35	3120-F311-P7T1-W01D-20A
30	302-1337-ND ***NEW!***	14.06	13.13	12.19	3120-F3P1-P7T1-W01D-30A
	Single Pole, White Actuators				
1	302-1182-ND ***NEW!***	13.10	12.23	11.35	3120-F311-P7T1-W02D-1A
15	302-1186-ND	13.10	12.23	11.35	3120-F311-P7T1-W02D-15A
20	302-1187-ND ***NEW!***	13.10	12.23	11.35	3120-F311-P7T1-W02D-20A
30	302-1341-ND ***NEW!***	14.06	13.13	12.19	3120-F3P1-P7T1-W02D-30A
	Double Pole, Black Actuators				
2	302-1191-ND	19.94	18.61	17.28	3120-F321-P7T1-W01D-2A
5	302-1195-ND	19.94	18.61	17.28	3120-F321-P7T1-W01D-5A
10	302-1200-ND	19.94	18.61	17.28	3120-F321-P7T1-W01D-10A
15	302-1203-ND	19.94	18.61	17.28	3120-F321-P7T1-W01D-15A
20	302-1206-ND	19.94	18.61	17.28	3120-F321-P7T1-W01D-20A
	Double Pole, White Actuators				
1	302-1208-ND	19.94	18.61	17.28	3120-F321-P7T1-W02D-1A
2	302-1210-ND	19.94	18.61	17.28	3120-F321-P7T1-W02D-2A
10	302-1219-ND	19.94	18.61	17.28	3120-F321-P7T1-W02D-10A
15	302-1222-ND	19.94	18.61	17.28	3120-F321-P7T1-W02D-15A
20	302-1225-ND	19.94	18.61	17.28	3120-F321-P7T1-W02D-20A

ATO Automotive Circuit Breakers - 1610 Series

Miniaturized single pole press-to-reset and automatic reset thermal circuit breaker designed for automotive fuse block installation.
Applications: Extra low voltage wiring systems on all types of vehicles and marine craft. **Voltage Rating:** *1610-21 Series:* DC 32V; *1610-92 Series:* DC 12V **Reset Period (@23°C):** ≤15 sec. for 1610-92 Series **Ambient Temperature:** -40°C ~ 85°C **Terminals:** Q.C. .250”

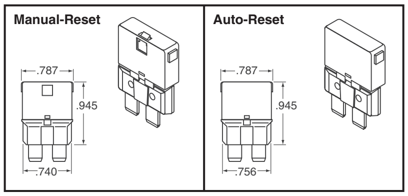

Current (A)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
	Manual-Reset ATO Breakers				
5	302-1334-ND ***NEW!***	9.09	8.49	7.88	1610-21-5A
6	302-1236-ND	9.09	8.49	7.88	1610-21-6A
10	302-1237-ND	9.09	8.49	7.88	1610-21-10A
15	302-1234-ND	9.09	8.49	7.88	1610-21-15A
20	302-1233-ND	9.09	8.49	7.88	1610-21-20A
25	302-1238-ND	9.09	8.49	7.88	1610-21-25A
30	302-1239-ND	9.09	8.49	7.88	1610-21-30A
	Auto-Reset ATO Breakers				
5	302-1336-ND ***NEW!***	9.09	8.49	7.88	1610-92-5A
6	302-1240-ND	9.09	8.49	7.88	1610-92-6A
10	302-1242-ND ***NEW!***	9.09	8.49	7.88	1610-92-10A
15	302-1243-ND	9.09	8.49	7.88	1610-92-15A
30	302-1246-ND	9.09	8.49	7.88	1610-92-30A

NEW! Din Rail Terminal Blocks for 1610 Series and 1180 Series

Description	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
Single Mounting Socket with Blade Terminals; A6.3 ~ 0.8 (Q.C. .250”)	302-1330-ND	5.06	4.73	4.39	12-J20
Single Mounting Socket with Screw Terminals; 6-32 UNC	302-1331-ND	5.06	4.73	4.39	12-P10
Single Mounting Socket with 1 Blade Terminal; A6.3 ~ 0.8 (Q.C. .250”)/ 1 Screw Terminal 6-32 UNC	302-1332-ND	5.06	4.73	4.39	12-A10

NEW! Single Pole Thermal Circuit Breakers - 1180 Series

Miniaturized single pole thermal circuit breaker with switching function (push-push actuation). Reliable snap-acting and trip-free mechanism. Approved to CBE standard EN/IEC 60934. S-type, TO. Blade terminals fitting into sockets for rail mounting.
Applications: Protection of loads in power distribution systems in control cabinets and process control **Voltage Rating:** AC 250V; DC 72V **Ambient Temperature:** -20°C ~ 60°C **Terminals:** Q.C. .250" blade **Agency Approvals:** CE, VDE and UL Recognized (+Canada)

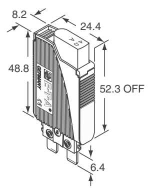

Current (A)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
0.25	302-1323-ND	13.66	12.75	11.84	1180-01-0.25A
0.5	302-1324-ND	13.66	12.75	11.84	1180-01-0.5A
1	302-1326-ND	13.66	12.75	11.84	1180-01-1A
2	302-1327-ND	13.66	12.75	11.84	1180-01-2A
3	302-1328-ND	13.66	12.75	11.84	1180-01-3A
5	302-1329-ND	13.66	12.75	11.84	1180-01-5A
10	302-1325-ND	13.66	12.75	11.84	1180-01-10A

Thermal Circuit Breakers - 1658 Series

Very cost effective design to meet international requirements. No exposed metal parts, which are, or could become, current carrying except for terminals, NO HOT rivets. Manual reset, cycling trip free mechanism. **Applications:** Battery chargers, consumer products, power supplies and motors. **Voltage Rating:** 240VAC; 28VDC (2HP motor rating) **Terminals:** Q.C. .250” blade **Typical Life:** 1,000 operations at 2 x I_N **Ambient Temperature:** -20°C ~ 60°C, <= 7A -20°C ~ 40°C **Insulation Voltage:** 2.5kV **Dielectric Strength:** AC 3,000V **Agency Approvals:** UL Recognized (UL 1500), CSA, CCC, VDE (EN 60934); *(See data sheets for details)*

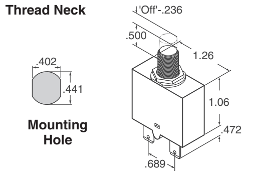

Mounting Hole

Current (A)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
	3/8” - 27 Thread Neck with PAL Nut				
5	302-1257-ND	1.91	1.79	1.66	1658-G21-01-P10-5A
10	302-1261-ND	1.91	1.79	1.66	1658-G21-01-P10-10A
15	302-1264-ND	1.91	1.79	1.66	1658-G21-01-P10-15A
20	302-1266-ND	1.91	1.79	1.66	1658-G21-01-P10-20A
25	302-1267-ND	1.91	1.79	1.66	1658-G21-01-P10-25A
30	302-1268-ND	1.91	1.79	1.66	1658-G21-01-P10-30A
35	302-1269-ND	1.91	1.79	1.66	1658-G21-01-P10-35A

E-T-A Circuit Protection & Control Thermal Circuit Breakers

104, 106 and 1140 Series

Fig. 1 — PCB Mount

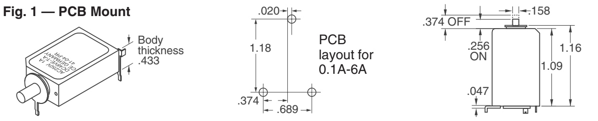

Fig. 2 — Panel Mount *(Includes Bulk Hardware)*

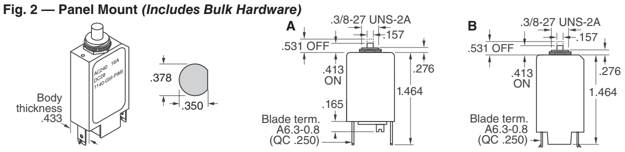

Miniaturized single pole thermal circuit breaker with push-to-reset tease free, trip-free, snap action mechanism. Approved to CBE standard EN 60934 (IEC 60934). Single pole, push to reset, black in color. **Applications:** Motors, transformers, solenoids, printed circuit boards, hand-held machines and appliances, marine applications, caravans. **Voltage Rating:** AC 240V; DC 48V **Ambient Temperature:** -20°C ~ 60°C **Insulation Voltage:** 2.5kV **Dielectric Strength:** AC 3,000V **Agency Approvals:** UL Recognized (UL 1077), CSA, CE, VDE (EN60934), SEV and Kema; *(See data sheets for details)*

Current (A)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
Fig. 1 — 104 Series - Horizontal PCB Mount					
0.5	302-1092-ND	11.07	10.34	9.60	104-PR-0.5A
1	302-1095-ND	11.07	10.34	9.60	104-PR-1A
1.2	302-1096-ND	11.07	10.34	9.60	104-PR-1.2A
2	302-1099-ND	11.07	10.34	9.60	104-PR-2A
3	302-1101-ND	11.07	10.34	9.60	104-PR-3A
5	302-1105-ND	11.07	10.34	9.60	104-PR-5A
7	302-1107-ND†	11.07	10.34	9.60	104-PR-7A
8	302-1108-ND†	11.07	10.34	9.60	104-PR-8A
10	302-1109-ND†	11.07	10.34	9.60	104-PR-10A
Fig. 2A — 106 Series - Miniature Panel Mount					
0.1	302-1000-ND	11.07	10.34	9.60	106-M2-P10-0.1A
0.2	302-1001-ND	11.07	10.34	9.60	106-M2-P10-0.2A
0.3	302-1002-ND	11.07	10.34	9.60	106-M2-P10-0.3A
0.4	302-1003-ND	11.07	10.34	9.60	106-M2-P10-0.4A
0.5	302-1004-ND	11.07	10.34	8.02	106-M2-P10-0.5A
0.8	302-1006-ND	11.07	10.34	9.60	106-M2-P10-0.8A
1	302-1007-ND	11.07	10.34	9.60	106-M2-P10-1A
1.5	302-1009-ND	11.07	10.34	9.60	106-M2-P10-1.5A
1.8	302-1010-ND	11.07	10.34	9.60	106-M2-P10-1.8A
2	302-1011-ND	11.07	10.34	9.60	106-M2-P10-2A
2.5	302-1012-ND	11.07	10.34	9.60	106-M2-P10-2.5A
3	302-1013-ND	11.07	10.34	9.60	106-M2-P10-3A
5	302-1309-ND ***NEW!***	11.07	10.34	9.60	106-M2-P10-5A
10	302-1310-ND ***NEW!***	11.07	10.34	9.60	106-M2-P10-10A
Fig. 2B — 1140 Series - Miniature Panel Mount					
10	302-1020-ND	12.20	11.39	10.57	1140-G111-P1M1-10A
12	302-1021-ND	12.20	11.39	10.57	1140-G111-P1M1-12A
15	302-1023-ND	12.20	11.39	10.57	1140-G111-P1M1-15A

† Requires different PCB layout

PC Board Mount 1410-L2 Series

PCB Mount

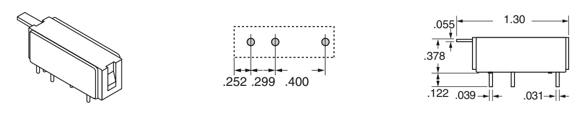

Single pole press-to-reset thermal circuit breaker with extremely fast overload switching performance. Miniaturized construction minimizes PCB real estate required. **Applications:** transformers, solenoids, PCB's, hand-held machines, appliances, instrumentation. **Voltage rating:** AC 250V; DC 50V **Typical Life:** 300 operation cycles **Ambient temperature:** -20°C ~ 100°C **Insulation voltage:** 2.5kV **Dielectric strength:** AC 1,500V **Agency Approvals:** UL Recognized (UL 1077), CSA, CE and VDE (EN60934); *(See data sheets for details)*

Current (A)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
Thermal Breakers - Horizontal PCB Mount					
0.63	302-1025-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-0.63A
0.8	302-1026-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-0.8A
1	302-1027-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-1A
1.25	302-1028-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-1.25A
1.5	302-1029-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-1.5A
2	302-1032-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-2A
2.5	302-1033-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-2.5A
3.15	302-1034-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-3.15A
4	302-1035-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-4A
4.5	302-1036-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-4.5A
5	302-1037-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-5A
6.3	302-1038-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-6.3A
8	302-1039-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-8A
10	302-1031-ND	7.16	6.68	6.21	1410-L210-L2F1-S02-10A

Push-Push Switch/Thermal Circuit Breakers - 2-5700 Series

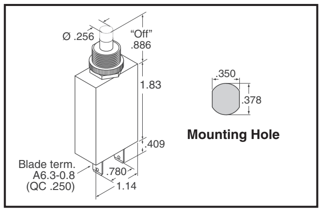

Single pole thermal circuit breaker with press-to-reset, tease-free, trip-free, snap action mechanism. The 2-5700 is a push-push switch/circuit breaker. Approved to CBE standard EN 60934 (IEC 60934).
Voltage Rating: 250VAC, 50VDC
Typical Life: 5,000 operations at 2 x I_N
Ambient Temperature: -20°C ~ 60°C
Insulation Voltage: 2.5kV
Dielectric Strength: AC 3,000V
Terminals: Q.C. .250" blade
Agency Approvals: UL, CSA, VDE (EN 60934), Semko (EN60934) and SEV; *(see data sheets for details)*

Current (A)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
1	302-1293-ND	14.76	13.78	12.80	2-5700-IG1-P10-DD-1A
2	302-1294-ND	14.76	13.78	12.80	2-5700-IG1-P10-DD-2A
5	302-1297-ND	14.76	13.78	12.80	2-5700-IG1-P10-DD-5A
10	302-1299-ND	14.76	13.78	12.80	2-5700-IG1-P10-DD-10A
15	302-1300-ND	14.76	13.78	12.80	2-5700-IG1-P10-DD-15A
20	302-1301-ND	14.76	13.78	12.80	2-5700-IG1-P10-DD-20A
25	302-1302-ND	14.76	13.78	12.80	2-5700-IG1-P10-DD-25A

NEW! Thermal Circuit Breaker/ Switches - 1120 Series

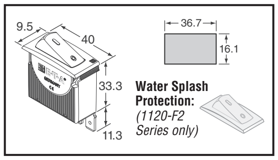

Double pole (single pole sensing) rocker switch/circuit breaker with rocker actuation. Thermal positively trip free mechanism. It meets the requirements of the CBE standard EN 60934 (IEC 60934): S type, TO. Meets the requirements regarding fire resistance of EN 60335-1: 2007-02 Safety of household and similar electrical appliances. **Voltage Ratings:** AC 240V; DC 32V to EN 60934; AC 277V; DC 50V to UL 1077 **Ambient Temperature:** -20°C ~ 60°C **Terminals:** Q.C. .250" blade **Agency Approvals:** VDE (EN60934), UL Recognized (+Canada)(UL 1077) and CE

Current (A)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
White Opaque Actuators — Non-Illuminated					
3	302-1313-ND	11.21	10.46	9.72	1120-F150-P1T1-WB0000-3A
5	302-1314-ND	11.21	10.46	9.72	1120-F150-P1T1-WB0000-5A
10	302-1311-ND	11.21	10.46	9.72	1120-F150-P1T1-WB0000-10A
15	302-1312-ND	11.21	10.46	9.72	1120-F150-P1T1-WB0000-15A
Red Translucent Actuators — Illuminated					
3	302-1317-ND	12.38	11.55	10.73	1120-F150-P1T1-WC00B3-3A
5	302-1318-ND	12.38	11.55	10.73	1120-F150-P1T1-WC00B3-5A
10	302-1315-ND	12.38	11.55	10.73	1120-F150-P1T1-WC00B3-10A
15	302-1316-ND	12.38	11.55	10.73	1120-F150-P1T1-WC00B3-15A
Red Translucent Actuators — Illuminated with Water Splash (IP66) Protection					
3	302-1321-ND	12.38	11.55	10.73	1120-F251-P1T1-WC00B3-3A
5	302-1322-ND	12.38	11.55	10.73	1120-F251-P1T1-WC00B3-5A
10	302-1319-ND	12.38	11.55	10.73	1120-F251-P1T1-WC00B3-10A
15	302-1320-ND	12.38	11.55	10.73	1120-F251-P1T1-WC00B3-15A

NEW! Single Pole Thermal Circuit Breaker/Switches - 3131 Series

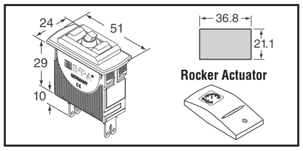

Combination of single pole circuit breaker and On/Off switch with soft-touch rocker actuation. Contoured rockers are sold separately and are available with a choice of colors and legends. The 3131 is sealed to provide IP66 rated front of panel water splash protection. It meets the requirements of circuit breaker standard EN 60934 (IEC 60934): S type, TO. **Voltage Ratings:** AC 240V; DC 28V **Terminals:** Q.C. .250" blade **Agency Approvals:** VDE (EN 60934), UL Recognized (+Canada)(UL 1077 & UL 1500) and CE

Current (A)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
On/Off Latching Function — Switch/Circuit Breakers					
1	302-1344-ND	15.37	14.35	13.32	3131-AF1PT-000000-000-1A
2	302-1346-ND	15.37	14.35	13.32	3131-AF1PT-000000-000-2A
5	302-1347-ND	15.37	14.35	13.32	3131-AF1PT-000000-000-5A
10	302-1342-ND	15.37	14.35	13.32	3131-AF1PT-000000-000-10A
15	302-1343-ND	15.37	14.35	13.32	3131-AF1PT-000000-000-15A
20	302-1345-ND	15.37	14.35	13.32	3131-AF1PT-000000-000-20A
3-Position On/Off/On Latching Function — Switch Only					
20†	302-1348-ND	15.37	14.35	13.32	3131-BF1NQ-000000-000-20A

† Ampere rating is for the switch contacts, 32V max.

Rocker Actuators - X3131 Series

Description	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
Blue Rocker, No Legend	302-1349-ND	1.69	1.58	1.47	X3131-WA0000
Black Rocker, No Legend	302-1350-ND	1.69	1.58	1.47	X3131-WB0000
Black Rocker, Anchor Light Legend	302-1351-ND	1.69	1.58	1.47	X3131-WB02A1
Black Rocker, Navigation Light Legend	302-1352-ND	1.69	1.58	1.47	X3131-WB04A1
Black Rocker, Anchor Legend	302-1353-ND	1.69	1.58	1.47	X3131-WB07A1
Black Rocker, Bilge Pump Legend	302-1354-ND	1.69	1.58	1.47	X3131-WB09A1
Black Rocker, Horn Legend	302-1355-ND	1.69	1.58	1.47	X3131-WB11A1
Black Rocker, Ventilation Fan Legend	302-1356-ND	1.69	1.58	1.47	X3131-WB12A1
Black Rocker, Navigation Instruments Legend	302-1357-ND	1.69	1.58	1.47	X3131-WB14A1
Black Rocker, Shower Pump Legend	302-1358-ND	1.69	1.58	1.47	X3131-WB17A1
Black Rocker, Search Light Legend	302-1359-ND	1.69	1.58	1.47	X3131-WB23A1
Black Rocker, Autopilot Legend	302-1360-ND	1.69	1.58	1.47	X3131-WB24A1
Black Rocker, Trim Tabs Legend	302-1361-ND	1.69	1.58	1.47	X3131-WB25A1
Black Rocker, Mast Lift Legend	302-1362-ND	1.69	1.58	1.47	X3131-WB26A1

Panasonic® Thermal Cutoffs (TCO) / Thermal-Links — EYP Type

Features: • Small and Insulation Type: TCO is compact and insulated, featuring quick temperature response, and mountable in a small space without insulation or protection **• High Reliability:** TCO opens reliably when the equipment becomes abnormal, and is not resettable **• Solid Structure:** Unique formed lead provides reliable TCO connection and provides easy assembly handling. (Axial lead type only) **• Non-Cadmium Alloy:** TCO uses specially selected non-cadmium alloy **• Thin Type:** Thickness is less than 1mm. Available for spot welding.

Recommended Applications: Transformers, solenoids, ventilation fan, electric fans, small electric motors, dryers, gas home appliances, fluorescent lights, electric shavers, adaptors, heating devices, ICs, batteries, etc. The TCO can be used for overheating protection.

Approved Safety Standards:
▽ (Japan): 33-xxx (see chart)
UL (USA): E60271
CSA (Canada): LR67163

VDE (Germany): N Series: 4811.6-1171-0001; F Series: 4811.6-4510-1026; E Series: 4811.6-4510-1030
BEAB (U.K.): N Series: C0736; F Series: C0738; E Series: C0739

Series N, F and E
Axial Lead Type

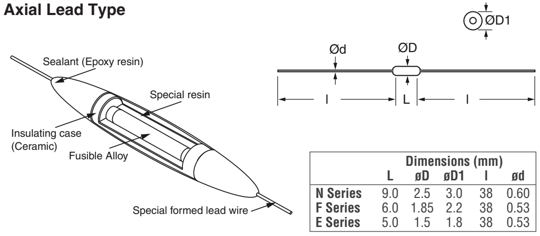

Dimensions (mm)	L	øD	øD1	l	ød
N Series	9.0	2.5	3.0	38	0.60
F Series	6.0	1.85	2.2	38	0.53
E Series	5.0	1.5	1.8	38	0.53

Series MT — Thin Type

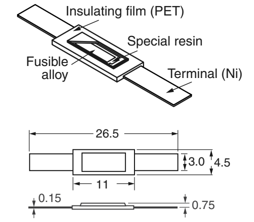

Type No. of Approved Standards	Rated Functioning Temp.[1] (°C)	Functioning Temp.[2] (°C)	Maximum Operating Temp.[3] (°C)	Holding Temp.[4] (°C)	Maximum Temp. (°C)[5] UL, VDE, BEAB	Maximum Temp. (°C)[5] CSA	Electrical Rating AC/DC	Electrical Rating Amp (A)	Electrical Rating Volt (V)	Approved Safety Standards ▽	Approved Safety Standards UL	Approved Safety Standards CSA	Approved Safety Standards VDE	Approved Safety Standards BEAB	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Panasonic Part No.
N Series																			
N082	86	82±2	52	56	200	150	AC	3.0	125	33-627	○	○	○	—	P10917-ND◆	.45	.41	.38	EYP-2BN082
			60	60			AC	2.0	250		○	○	○	○					
			45	50			DC	4.0	50		○	○	○	—					
N109	114	110±3	76	86	200	150	AC	3.0	125	33-634	○	○	○	—	P10920-ND◆	.45	.41	.38	EYP-2BN109
			80	90			AC	2.0	250		○	○	○	○					
			65	74			DC	5.0	50		○	○	○	—					
N110	115	110^{+3}_{-2}	76	86	200	150	AC	3.0	125	33-634	○	○	○	—	P10921-ND◆	.45	.41	.38	EYP-2BN110
			80	90			AC	2.0	250		○	○	○	—					
			65	74			DC	5.0	50		○	○	○	—					
N124	130	126±2	90	105	200	180	AC	3.0	125	33-619	○	○	○	—	P10922-ND	.45	.41	.38	EYP-2BN124
			94	105			AC	2.0	250		○	○	○	○					
			80	94			DC	5.0	50		○	○	○	—					
N143	145	141±2	105	115	200	180	AC	3.0	125	33-621	○	○	○	—	P10925-ND◆	.45	.41	.38	EYP-2BN143
			110	120			AC	2.0	250		○	○	○	○					
			80	90			DC	6.0	50		○	○	○	—					
N163	168	163^{+4}_{-2}	120	130	200		AC	3.0	125	33-623	○	○	○	—	P10926-ND	.45	.41	.38	EYP-2BN163
			120	135			AC	2.0	250		○	○	○	○					
			90	100			DC	6.0	50		○	○	○	—					
N183	188	183^{+4}_{-2}	120	140	200		AC	3.0	125	33-625	○	○	○	—	P10927-ND	.45	.41	.38	EYP-2BN183
			120	140			AC	2.0	250		○	○	○	○					
			120	130			DC	6.0	50		○	○	○	—					
F Series																			
F115	115	110^{+3}_{-2}	76	90	200	150	AC	2.0	125	33-634	○	○	○	—	P10912-ND◆	.45	.41	.38	EYP-1BF115
			80	90			AC	1.0	250		○	○	○	○					
			70	80			DC	4.0	50		○	○	○	—					
F133	133	128±2	92	108	200	180	AC	2.0	125	33-619	○	○	○	—	P10914-ND	.45	.41	.38	EYP-1BF133
			96	108			AC	1.0	250		○	○	○	○					
			76	92			DC	4.5	50		○	○	○	—					
F168	168	163^{+4}_{-2}	120	135	200		AC	2.0	125	33-623	○	○	○	—	P10916-ND	.45	.41	.38	EYP-1BF168
			120	142			AC	1.0	250		○	○	○	—					
			95	110			DC	5.0	50		○	○	○	—					
E Series																			
E102	102	98±2	70	78	200	150	AC	1.5	125	33-632	○	○	○	—	P10906-ND	.45	.41	.38	EYP-05BE102
			75	80			AC	0.5	250		○	○	○	○					
			65	70			DC	3.0	50		○	○	○	—					
E115	115	110±2	76	93	200	150	AC	1.5	125	33-634	○	○	○	—	P10907-ND◆	.45	.41	.38	EYP-05BE115
			80	95			AC	0.5	250		○	○	○	○					
			70	84			DC	3.0	50		○	○	○	—					
E133	133	128±2	92	115	200	180	AC	1.5	125	33-619	○	○	○	—	P10909-ND	.45	.41	.38	EYP-05BE133
			96	115			AC	0.5	250		○	○	○	○					
			85	105			DC	3.0	50		○	○	○	—					
E139	139	135±3	99	120	200	180	AC	1.5	125	33-619	○	○	○	—	P10910-ND‡	.45	.41	.38	EYP-05BE139
			103	120			AC	0.5	250		○	○	○	○					
			92	110			DC	3.0	50		○	○	○	—					
MT Series †																			
MT102	102	98±2	65	70	150		DC	2.0	50	—	○	—	—	—	P10934-ND	.89	.82	.75	EYP-2MT102
MT102A															P10935-ND	.89	.82	.75	EYP-2MT102A
MT102B															P10936-ND	.89	.82	.75	EYP-2MT102B

NOTES:

1. **Rated Functioning Temperature** (UL: TF, CSA, VDE, BEAB: Tf). The temperature at which a TCO changes its state of conductivity to open circuit with loading detection current only. Tolerance: ▽ : ±7°C; UL, CSA, VDE, BEAB: 0 / -10°C
2. **Functioning Temperature**: (Fusing-off temperature): The functioning temperature at which a TCO changes its state of conductivity to open circuit in the ambient air oven which increases temperature by 1°C per minute and with loading detection current of 0.1A or less.
3. **Maximum Operating Temperature:** The maximum temperature at which a TCO can be maintained while conducting rated current for 3000 h.
4. **Holding Temperature** (UL: TH, CSA: Th, VDE, BEAB: Tc). The maximum temperature at which a TCO can be maintained while conducting rated current for 168h which will not cause a change in state of conductivity to open circuit.
5. **Maximum Temperature Limit** (UL: TM, CSA, VDE, BEAB: Tm) The maximum temperature at which a TCO can maintain its mechanical and electrical properties without closing again for 10 minutes after a TCO has changed its state of conductivity.

‡ P10908-ND and P10910-ND are additionally approved for UL, on DC50V 5A

† Std. DC Resistance is <15mΩ, A = <16mΩ, B = <17mΩ

◆ ***RoHS Compliant***

Power / Push Switches

*** UL, CSA, BEAB, SEMKO, VDE, SEV, FIMKO, NEMKO, DEMKO, APPROVED**

Fig. 1

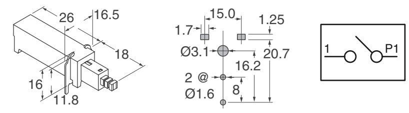

Fig. 2

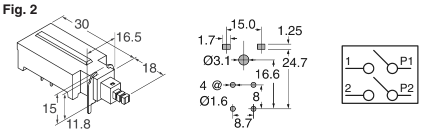

Fig. 3

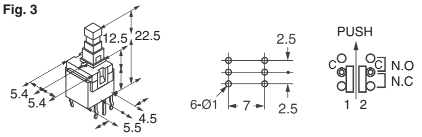

Fig. 4

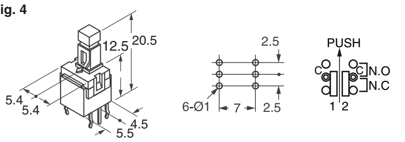

Fig. 5

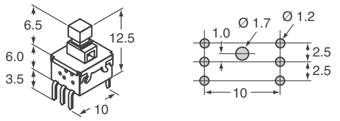

Fig. 6

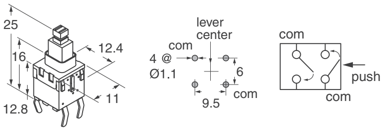

Fig. 7

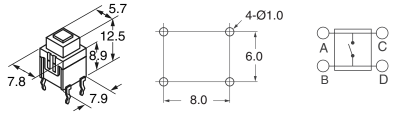

Fig. 8

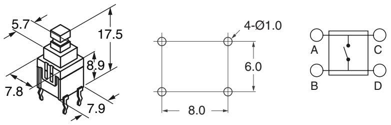

Fig. 9

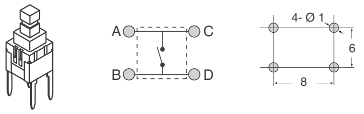

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Panasonic Part No.
1	Power Switch SPST 5A, 250VAC	P8100S-ND*	2.32	1.75	1.52	1.17	—	ESB-92S21B
2	Power Switch DPST 5A, 250VAC	P8101S-ND◆*	2.98	2.24	1.94	1.49	—	ESB-92D21B
3	Push Switch Soft Sound DPDT, 200mA, 14VDC	P11163S-ND◆	2.45	1.84	1.60	1.23	—	ESB-30A105
4	Push Switch Soft Sound DPDT, 200mA, 14VDC	P11164S-ND◆	2.45	1.84	1.60	1.23	—	ESB-30B102
5	Push Switch DPDT, 200mA, 14VDC	P13353S-ND◆	2.02	1.52	1.32	1.01	.84	ESB-33133
6	Push Switch DPST 3A, 12VDC	P8102S-ND◆	3.08	2.31	2.00	1.54	1.16	ESB-32101A
7	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P11161S-ND◆	1.82	1.37	1.19	.91	—	ESE-20C321
	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12344S-ND◆	1.82	1.37	1.19	.91	.69	ESE-20C323
	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P12346S-ND◆	1.82	1.37	1.19	.91	.69	ESE-20C343
	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12349S-ND◆	1.82	1.37	1.19	.91	.69	ESE-20C421
	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12345S-ND◆	1.82	1.37	1.19	.91	.69	ESE-20C423
	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P12347S-ND◆	1.82	1.37	1.19	.91	.69	ESE-20C443
8	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P11162S-ND◆	1.82	1.37	1.19	.91	—	ESE-20C441
Approved for Automobile Use — RoHS Compliant								
9	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12354S-ND	1.82	1.37	1.19	.91	.69	ESE-20D321
	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12350S-ND	1.82	1.37	1.19	.91	.69	ESE-20D323
	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P12356S-ND	1.82	1.37	1.19	.91	.69	ESE-20D341
	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P12352S-ND	1.82	1.37	1.19	.91	.69	ESE-20D343
	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12355S-ND	1.82	1.37	1.19	.91	.69	ESE-20D421
	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12351S-ND	1.82	1.37	1.19	.91	.69	ESE-20D423
	Push Switch Momentary SPST, 100mA, 14VDC, 200gF	P12357S-ND	1.82	1.37	1.19	.91	.69	ESE-20D441
	Push Switch Momentary SPST, 100mA, 14VDC, 400gF	P12353S-ND	1.82	1.37	1.19	.91	.69	ESE-20D443

◆ ***RoHS Compliant***

Slide Switches

RoHS COMPLIANT

Fig. 1

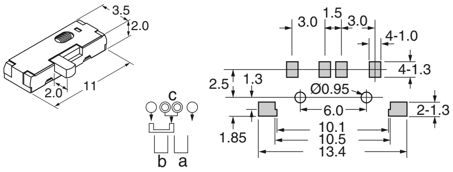

Fig. 2

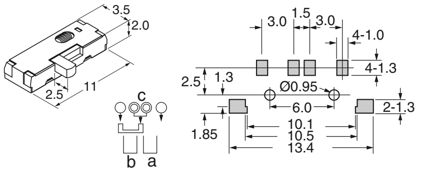

Fig. 3

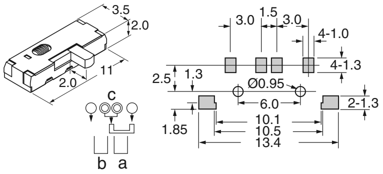

Fig. 4

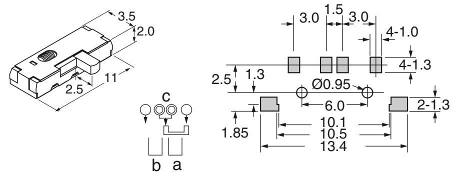

Fig. 5

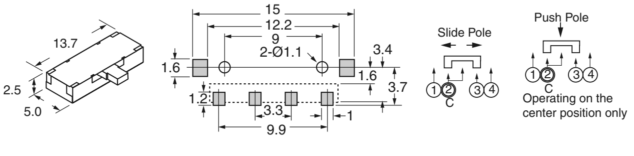

Fig. 6

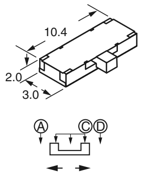

Fig.	Description	Rating	OP Force	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
1	SMD 2mm Horizontal Self-return	5VDC, 200mA	216gf	P11157SCT-ND	2.12	1.59	1.38	1.07	P11157STR-ND	2,000	769.00/M	ESD-165225
2	SMD 2mm Horizontal Self-return	5VDC, 200mA	216gf	P11158SCT-ND	2.12	1.59	1.38	1.07	P11158STR-ND	2,000	769.00/M	ESD-165226
3	SMD 2mm Horizontal Self-return	5VDC, 200mA	216gf	P11159SCT-ND	2.12	1.59	1.38	1.07	P11159STR-ND	2,000	769.00/M	ESD-165235
4	SMD 2mm Horizontal Self-return	5VDC, 200mA	216gf	P11160SCT-ND	2.12	1.59	1.38	1.07	P11160STR-ND	2,000	769.00/M	ESD-165236
5	SMD Multi Function Slide + Push	10VDC, 1mA	40gf	P11155SCT-ND	6.06	4.55	3.94	3.03	P11155STR-ND	1,400	2272.00/M	ESE-15700
6	SMD Multi Function Slide	10VDC, 1mA	125gf	P11156SCT-ND	1.82	1.37	1.19	.91	P11156STR-ND	1,500	682.00/M	ESE-15800

Surface Mount Momentary Pushbutton Switches

CIRCUIT DIAGRAM 1

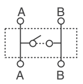

CIRCUIT DIAGRAM 2

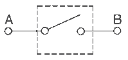

Fig. 1

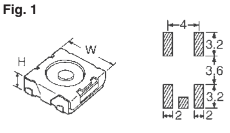

Fig. 2

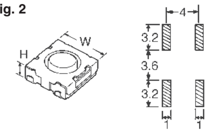

Fig. 3

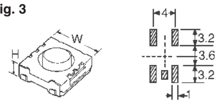

With or Without Grounding Terminal

Fig. 4

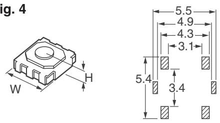

Fig. 5

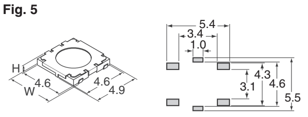

Fig. 6

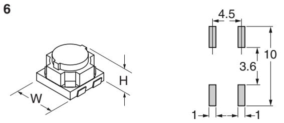

Fig. 7

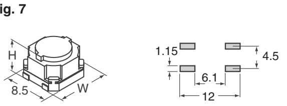

Fig. 8

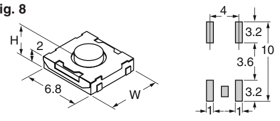

With or Without Grounding Terminal

Fig. 9

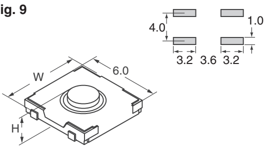

Fig. 10

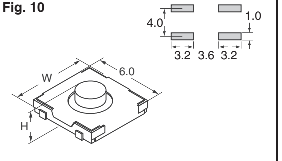

Fig. 11

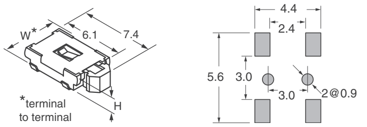

With or Without Mounting Boss

Fig. 12

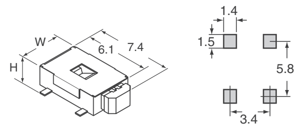

Fig. 13

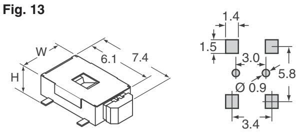

Fig. 14

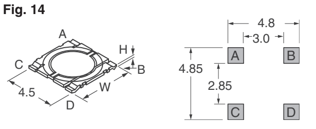

Fig. 15

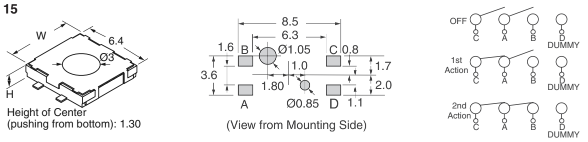

Height of Center (pushing from bottom): 1.30

(View from Mounting Side)

Fig.	Description	Circuit Dia.	Dimensions (mm) H	Dimensions (mm) W	Operating Force	Voltage Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
1	Light Touch Switch Standard	1	2	6.2	130gf	15	20	100K	P8000SCT-ND◆	1.11	.84	.73	P8000STR-ND◆	4,000	417.00/M	EVQ-QFA02K
	Light Touch Switch Standard	1	2	6.2	130gf	15	20	100K	P12246SCT-ND	1.18	.89	.77	—	—	—	EVQ-QFY02K
2	Light Touch Switch Standard with Actuator	1	3.1	6.4	130gf	15	20	100K	P8002SCT-ND◆	.86	.65	.56	P8002STR-ND◆	2,000	330.00/M	EVQ-PHP03T
3	Light Touch Switch Standard with Actuator	1	3.1	6.4	160gf	15	20	100K	P12248SCT-ND◆	.98	.74	.64	P12248STR-ND◆	2,000	368.00/M	EVQ-PHV03T
	Light Touch Switch Standard with Actuator	1	3.1	6.4	260gf	15	20	50K	P12249SCT-ND◆	1.13	.85	.74	—	—	—	EVQ-PHU03T
	L.T. Switch Std w/Actuator w/Ground Term.	1	3.1	6.4	130gf	15	20	100K	P12250SCT-ND	1.13	.85	.74	—	—	—	EVQ-PHL03T
	L.T. Switch Std w/Actuator w/Ground Term.	1	3.1	6.4	160gf	15	20	100K	P12251SCT-ND	1.13	.85	.74	—	—	—	EVQ-PHN03T
	L.T. Switch Std w/Actuator w/Ground Term.	1	3.1	6.4	260gf	15	20	50K	P12252SCT-ND	1.13	.85	.74	—	—	—	EVQ-PHK03T
4	L.T. Switch Rugged Design Low Profile	1	1.5	4.9	100gf	12	50	500K	P8045SCT-ND◆	1.11	.83	.72	P8045STR-ND◆	5,000	395.00/M	EVQ-PLDA15
	L.T. Switch Rugged Design Low Profile	1	1.5	4.9	160gf	12	50	500K	P8046SCT-ND◆	.71	.54	.47	P8046STR-ND◆	5,000	253.00/M	EVQ-PLHA15
	L.T. Switch Rugged Design Low Profile	1	1.5	4.9	260gf	12	50	500K	P8047SCT-ND◆	.89	.67	.58	P8047STR-ND◆	5,000	316.00/M	EVQ-PLMA15
5	L.T. Switch Top Push without Actuator	1	0.8	4.9	100gf	15	20	500K	P12274SCT-ND◆	.89	.67	.59	P12274STR-ND◆	5,000	312.00/M	EVQ-PLBA08
	L.T. Switch Top Push without Actuator	1	0.8	4.9	160gf	15	20	500K	P12275SCT-ND◆	.64	.48	.42	P12275STR-ND◆	5,000	223.00/M	EVQ-PLFA08
	L.T. Switch Top Push without Actuator	1	0.8	4.9	260gf	15	20	200K	P12276SCT-ND◆	.89	.67	.59	P12276STR-ND◆	5,000	312.00/M	EVQ-PLKA08
6	Light Touch Switch Long Travel	1	5	6.0	200gf	12	50	100K	P12245SCT-ND◆	1.38	1.04	.90	P12245STR-ND◆	2,000	518.00/M	EVQ-P1F05M
	Light Touch Switch Long Travel	1	5	6.0	220gf	12	50	100K	P12244SCT-ND◆	1.38	1.04	.90	P12244STR-ND◆	2,000	518.00/M	EVQ-P1K05M
	Light Touch Switch Long Travel	1	5	6.0	250gf	12	50	30K	P10888SCT-ND◆	.98	.74	.64	P10888STR-ND◆	2,000	378.00/M	EVQ-P1D05M
	Light Touch Switch Long Travel	1	5	6.0	350gf	12	50	30K	P13586SCT-ND◆	1.22	.92	.80	P13586STR-ND◆	2,000	457.00/M	EVQ-9P105M
7	Light Touch Switch Long Travel	1	6.5	9.9	500gf	12	50	100K	P12969SCT-ND◆	1.52	1.14	.99	P12969STR-ND◆	1,000	569.00	EVQ-Q1E06K
8	Light Touch Switch Standard with Actuator	1	2	6.2	130gf	15	20	1,000K	P13608SCT-ND◆	.69	.52	.45	P13608STR-ND◆	4,000	257.00/M	EVQ-QXP01W
	Light Touch Switch Standard with Actuator	1	2	6.2	160gf	15	20	100K	P12255SCT-ND◆	.96	.73	.63	—	—	—	EVQ-QWS01W
	Light Touch Switch Standard with Actuator	1	2	6.2	160gf	15	20	1,000K	P13611SCT-ND◆	.96	.73	.63	P13611STR-ND◆	4,000	361.00/M	EVQ-QXS01W
	Light Touch Switch Standard with Actuator	1	2	6.2	260gf	15	20	10K	P12257SCT-ND◆	.96	.73	.63	—	—	—	EVQ-QWT01W
	Light Touch Switch Standard with Actuator	1	2	6.2	260gf	15	20	100K	P13614SCT-ND◆	.96	.73	.63	P13614STR-ND◆	4,000	361.00/M	EVQ-QXT01W
	Light Touch Switch Standard with Actuator	1	2.5	6.2	130gf	15	20	100K	P12253SCT-ND◆	.96	.73	.63	—	—	—	EVQ-QWP02W
	Light Touch Switch Standard with Actuator	1	2.5	6.2	130gf	15	20	1,000K	P13609SCT-ND◆	.69	.52	.45	P13609STR-ND◆	4,000	257.00/M	EVQ-QXP02W
	Light Touch Switch Standard with Actuator	1	2.5	6.2	160gf	15	20	1,000K	P13612SCT-ND◆	.69	.52	.45	P13612STR-ND◆	2,000	257.00/M	EVQ-QXS02W
	Light Touch Switch Standard with Actuator	1	2.5	6.2	260gf	15	20	10K	P12258SCT-ND◆	.96	.73	.63	—	—	—	EVQ-QWT02W
	Light Touch Switch Standard with Actuator	1	2.5	6.2	260gf	15	20	100K	P13615SCT-ND◆	.96	.73	.63	P13615STR-ND◆	2,000	361.00/M	EVQ-QXT02W
	Light Touch Switch Standard with Actuator	1	3.1	6.2	130gf	15	20	1,000K	P13610SCT-ND◆	.96	.73	.63	P13610STR-ND◆	2,000	361.00/M	EVQ-QXP03W
	Light Touch Switch Standard with Actuator	1	3.1	6.2	160gf	15	20	100K	P12256SCT-ND◆	.96	.73	.63	—	—	—	EVQ-QWS03W
	Light Touch Switch Standard with Actuator	1	3.1	6.2	160gf	15	20	1,000K	P13613SCT-ND◆	.96	.73	.63	P13613STR-ND◆	2,000	361.00/M	EVQ-QXS03W
	Light Touch Switch Standard with Actuator	1	3.1	6.2	260gf	15	20	100K	P13616SCT-ND◆	.69	.52	.45	P13616STR-ND◆	2,000	257.00/M	EVQ-QXT03W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	2	6.2	130gf	15	20	100K	P12259SCT-ND	1.10	.83	.72	—	—	—	EVQ-QWM01W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	2	6.2	130gf	15	20	1,000K	P13602SCT-ND◆	1.10	.83	.72	P13602STR-ND◆	4,000	412.00/M	EVQ-QXMO1W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	2	6.2	160gf	15	20	100K	P12262SCT-ND	1.10	.83	.72	P12262STR-ND	4,000	412.00/M	EVQ-QWN01W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	2	6.2	160gf	15	20	1,000K	P13605SCT-ND◆	1.10	.83	.72	P13605STR-ND◆	4,000	412.00/M	EVQ-QXN01W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	2	6.2	260gf	15	20	10K	P12265SCT-ND	1.10	.83	.72	—	—	—	EVQ-QWK01W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	2	6.2	260gf	15	20	100K	P13599SCT-ND◆	1.10	.83	.72	P13599STR-ND◆	4,000	412.00/M	EVQ-QXK01W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	2.5	6.2	130gf	15	20	100K	P12260SCT-ND	1.10	.83	.72	—	—	—	EVQ-QWM02W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	2.5	6.2	130gf	15	20	1,000K	P13603SCT-ND◆	1.10	.83	.72	P13603STR-ND◆	2,000	412.00/M	EVQ-QXM02W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	2.5	6.2	160gf	15	20	100K	P12263SCT-ND	1.10	.83	.72	—	—	—	EVQ-QWN02W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	2.5	6.2	160gf	15	20	1,000K	P13606SCT-ND◆	1.10	.83	.72	P13606STR-ND◆	2,000	412.00/M	EVQ-QXN02W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	2.5	6.2	260gf	15	20	10K	P12266SCT-ND	1.10	.83	.72	—	—	—	EVQ-QWK02W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	2.5	6.2	260gf	15	20	100K	P13600SCT-ND◆	1.10	.83	.72	P13600STR-ND◆	2,000	412.00/M	EVQ-QXK02W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	3.1	6.2	130gf	15	20	100K	P12261SCT-ND◆	1.10	.83	.72	—	—	—	EVQ-QWM03W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	3.1	6.2	130gf	15	20	1,000K	P13604SCT-ND◆	1.10	.83	.72	P13604STR-ND◆	2,000	412.00/M	EVQ-QXM03W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	3.1	6.2	160gf	15	20	1,000K	P13607SCT-ND◆	1.10	.83	.72	P13607STR-ND◆	2,000	412.00/M	EVQ-QXN03W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	3.1	6.2	260gf	15	20	10K	P12267SCT-ND	1.10	.83	.72	—	—	—	EVQ-QWK03W
	L.T. Switch Std. w/Actuator w/Ground Term.	1	3.1	6.2	260gf	15	20	100K	P13601SCT-ND◆	1.10	.83	.72	P13601STR-ND◆	2,000	412.00/M	EVQ-QXK03W
9	Light Touch Switch Overstroke Travel	1	2.5	6.6	60gf	15	20	2,000K	P12965SCT-ND◆	.52	.39	.34	P12965STR-ND◆	2,000	194.00/M	EVQ-P0N02B
	L.T. Switch Overstroke Travel w/Ground Term.	1	2.5	6.6	60gf	15	20	2,000K	P12966SCT-ND◆	.52	.39	.34	P12966STR-ND◆	2,000	194.00/M	EVQ-P0P02B
	Light Touch Switch Overstroke Travel	1	2.5	6.6	100gf	15	20	1,000K	P12967SCT-ND◆	.52	.39	.34	P12967STR-ND◆	2,000	194.00/M	EVQ-P0Q02Q
	L.T. Switch Overstroke Travel w/Ground Term.	1	2.5	6.6	100gf	15	20	1,000K	P12968SCT-ND◆	.52	.39	.34	P12968STR-ND◆	2,000	194.00/M	EVQ-P0S02Q
10	Light Touch Switch Short Push Travel	1	2.0	6.6	50gf	15	20	2,000K	P12930SCT-ND◆	.39	.30	.26	P12930STR-ND◆	4,000	148.00/M	EVQ-Q2B01W
	Light Touch Switch Short Push Travel	1	2.5	6.6	50gf	15	20	2,000K	P12931SCT-ND◆	.39	.30	.26	P12931STR-ND◆	2,000	148.00/M	EVQ-Q2B02W
	Light Touch Switch Short Push Travel	1	3.1	6.6	50gf	15	20	2,000K	P12932SCT-ND◆	.39	.30	.26	P12932STR-ND◆	2,000	148.00/M	EVQ-Q2B03W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.0	6.6	50gf	15	20	2,000K	P12933SCT-ND◆	.39	.30	.26	P12933STR-ND◆	4,000	148.00/M	EVQ-Q2D01W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.5	6.6	50gf	15	20	2,000K	P12934SCT-ND◆	.39	.30	.26	P12934STR-ND◆	2,000	148.00/M	EVQ-Q2D02W

◆ ***RoHS Compliant*** Note: All switches are non-washable unless otherwise noted. § Bulk *(Continued)*

Surface Mount Momentary Pushbutton Switches *(Cont.)*

Fig. 16

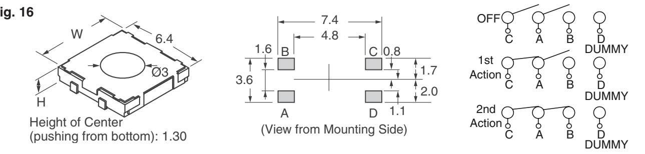

Fig. 17

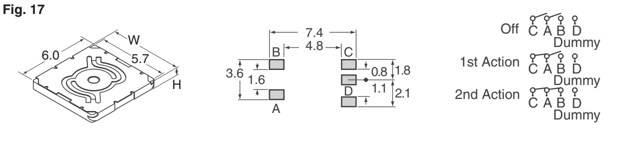

Fig. 18

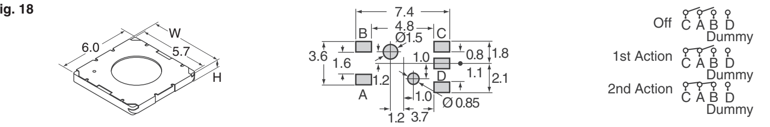

Fig. 19

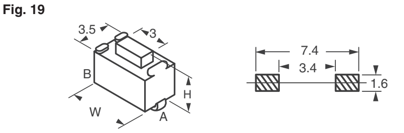

Fig. 20

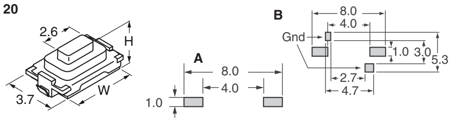

Fig. 21

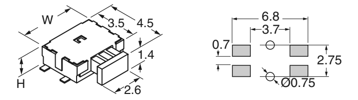

Fig. 22

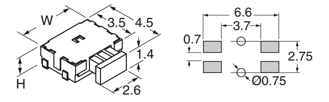

Fig. 23

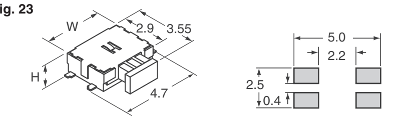

Fig. 24

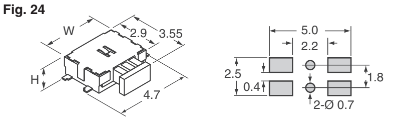

Fig. 25

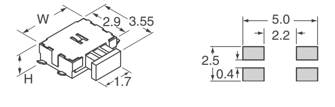

Fig.	Description	Circuit Dia.	Dimensions (mm)		Operating Force	Voltage Rating (VDC)	Current Rating (mA)	Oper-ating Life	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Panasonic Part No.
			H	W						1	10	100		Qty.	Pricing	
10	L.T. Switch Short Push Travel w/Ground Term.	1	3.1	6.6	50gf	15	20	2,000K	P12935SCT-ND◆	.39	.30	.26	P12935STR-ND◆	2,000	148.00/M	EVQ-Q2D03W
	Light Touch Switch Short Push Travel	1	2.0	6.6	100gf	15	20	1,000K	P12936SCT-ND◆	.39	.30	.26	P12936STR-ND◆	4,000	148.00/M	EVQ-Q2F01W
	Light Touch Switch Short Push Travel	1	2.5	6.6	100gf	15	20	1,000K	P12970SCT-ND◆	.39	.30	.26	P12970STR-ND◆	2,000	148.00/M	EVQ-Q2F02W
	Light Touch Switch Short Push Travel	1	3.1	6.6	100gf	15	20	1,000K	P12937SCT-ND◆	.39	.30	.26	P12937STR-ND◆	2,000	148.00/M	EVQ-Q2F03W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.0	6.6	100gf	15	20	1,000K	P12938SCT-ND◆	.39	.30	.26	P12938STR-ND◆	4,000	148.00/M	EVQ-Q2H01W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.5	6.6	100gf	15	20	1,000K	P12939SCT-ND◆	.39	.30	.26	P12939STR-ND◆	2,000	148.00/M	EVQ-Q2H02W
	L.T. Switch Short Push Travel w/Ground Term.	1	3.1	6.6	100gf	15	20	1,000K	P12940SCT-ND◆	.39	.30	.26	P12940STR-ND◆	2,000	148.00/M	EVQ-Q2H03W
	Light Touch Switch Short Push Travel	1	2.0	6.6	130gf	15	20	1,000K	P12941SCT-ND◆	.39	.30	.26	P12941STR-ND◆	4,000	148.00/M	EVQ-Q2K01W
	Light Touch Switch Short Push Travel	1	2.5	6.6	130gf	15	20	1,000K	P12942SCT-ND◆	.39	.30	.26	P12942STR-ND◆	2,000	148.00/M	EVQ-Q2K02W
	Light Touch Switch Short Push Travel	1	3.1	6.6	130gf	15	20	1,000K	P12943SCT-ND◆	.39	.30	.26	P12943STR-ND◆	2,000	148.00/M	EVQ-Q2K03W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.0	6.6	130gf	15	20	1,000K	P12944SCT-ND◆	.39	.30	.26	P12944STR-ND◆	4,000	148.00/M	EVQ-Q2M01W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.5	6.6	130gf	15	20	1,000K	P12945SCT-ND◆	.39	.30	.26	P12945STR-ND◆	2,000	148.00/M	EVQ-Q2M02W
	L.T. Switch Short Push Travel w/Ground Term.	1	3.1	6.6	130gf	15	20	1,000K	P12946SCT-ND◆	.39	.30	.26	P12946STR-ND◆	2,000	148.00/M	EVQ-Q2M03W
	Light Touch Switch Short Push Travel	1	2.0	6.6	160gf	15	20	1,000K	P12947SCT-ND◆	.39	.30	.26	P12947STR-ND◆	4,000	148.00/M	EVQ-Q2P01W
	Light Touch Switch Short Push Travel	1	2.5	6.6	160gf	15	20	1,000K	P12948SCT-ND◆	.39	.30	.26	P12948STR-ND◆	2,000	148.00/M	EVQ-Q2P02W
	Light Touch Switch Short Push Travel	1	3.1	6.6	160gf	15	20	1,000K	P12949SCT-ND◆	.39	.30	.26	P12949STR-ND◆	2,000	148.00/M	EVQ-Q2P03W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.0	6.6	160gf	15	20	1,000K	P12950SCT-ND◆	.39	.30	.26	P12950STR-ND◆	4,000	148.00/M	EVQ-Q2S01W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.5	6.6	160gf	15	20	1,000K	P12951SCT-ND◆	.39	.30	.26	P12951STR-ND◆	2,000	148.00/M	EVQ-Q2S02W
	L.T. Switch Short Push Travel w/Ground Term.	1	3.1	6.6	160gf	15	20	1,000K	P12952SCT-ND◆	.39	.30	.26	P12952STR-ND◆	2,000	148.00/M	EVQ-Q2S03W
	Light Touch Switch Short Push Travel	1	2.0	6.6	260gf	15	20	200K	P12953SCT-ND◆	.39	.30	.26	P12953STR-ND◆	4,000	148.00/M	EVQ-Q2U01W
	Light Touch Switch Short Push Travel	1	2.5	6.6	260gf	15	20	200K	P12954SCT-ND◆	.39	.30	.26	P12954STR-ND◆	2,000	148.00/M	EVQ-Q2U02W
	Light Touch Switch Short Push Travel	1	3.1	6.6	260gf	15	20	200K	P12955SCT-ND◆	.39	.30	.26	P12955STR-ND◆	2,000	148.00/M	EVQ-Q2U03W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.0	6.6	260gf	15	20	200K	P12956SCT-ND◆	.39	.30	.26	P12956STR-ND◆	4,000	148.00/M	EVQ-Q2W01W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.5	6.6	260gf	15	20	200K	P12957SCT-ND◆	.39	.30	.26	P12957STR-ND◆	2,000	148.00/M	EVQ-Q2W02W
	L.T. Switch Short Push Travel w/Ground Term.	1	3.1	6.6	260gf	15	20	200K	P12958SCT-ND◆	.39	.30	.26	P12958STR-ND◆	2,000	148.00/M	EVQ-Q2W03W
	Light Touch Switch Short Push Travel	1	2.0	6.6	350gf	15	20	100K	P12959SCT-ND◆	.39	.30	.26	P12959STR-ND◆	4,000	148.00/M	EVQ-Q2Y01W
	Light Touch Switch Short Push Travel	1	2.5	6.6	350gf	15	20	100K	P12960SCT-ND◆	.39	.30	.26	P12960STR-ND◆	2,000	148.00/M	EVQ-Q2Y02W
	Light Touch Switch Short Push Travel	1	3.1	6.6	350gf	15	20	100K	P12961SCT-ND◆	.39	.30	.26	P12961STR-ND◆	2,000	148.00/M	EVQ-Q2Y03W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.0	6.6	350gf	15	20	100K	P12962SCT-ND◆	.39	.30	.26	P12962STR-ND◆	4,000	148.00/M	EVQ-Q2201W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.5	6.6	350gf	15	20	100K	P12963SCT-ND◆	.39	.30	.26	P12963STR-ND◆	2,000	148.00/M	EVQ-Q2202W
	L.T. Switch Short Push Travel w/Ground Term.	1	3.1	6.6	350gf	15	20	100K	P12964SCT-ND◆	.39	.30	.26	P12964STR-ND◆	2,000	148.00/M	EVQ-Q2203W
11	Light Touch Switch J Bent Leads	1	1.8	4	160gf	12	50	100K	P12318SCT-ND◆	.82	.62	.54	P12318STR-ND◆	4,000	309.00/M	EVQ-PSC02K
	Light Touch Switch J Bent Leads	1	1.8	4	220gf	12	50	100K	P12319SCT-ND◆	.72	.55	.47	P12319STR-ND◆	4,000	270.00/M	EVQ-PSG02K
	L.T. Switch J Bent Leads w/Mounting Boss	1	1.8	4	160gf	12	50	50K	P8088SCT-ND◆	.72	.55	.47	P8088STR-ND◆	4,000	261.00/M	EVQ-PSD02K
	L.T. Switch J Bent Leads w/Mounting Boss	1	1.8	4	220gf	12	50	50K	P8089SCT-ND◆	.65	.49	.43	P8089STR-ND◆	4,000	236.00/M	EVQ-PSH02K
12	Light Touch Switch Straight Leads	1	1.8	4	160gf	12	50	100K	P12320SCT-ND◆	.87	.66	.57	P12320STR-ND◆	4,000	379.00/M	EVQ-PSL02K
	Light Touch Switch Straight Leads	1	1.8	4	220gf	12	50	100K	P12321SCT-ND◆	1.01	.76	.66	P12321STR-ND◆	4,000	379.00/M	EVQ-PSQ02K
13	L.T. Switch Straight Leads with Mtg. Boss	1	1.8	4	160gf	12	50	100K	P12322SCT-ND◆	1.01	.76	.66	P12322STR-ND◆	4,000	379.00/M	EVQ-PSM02K
	L.T. Switch Straight Leads with Mtg. Boss	1	1.8	4	220gf	12	50	100K	P12323SCT-ND◆	1.01	.76	.66	P12323STR-ND◆	4,000	379.00/M	EVQ-PSR02K
14	Light Touch Switch, Super Small	1	.55	4.5	160gf	15	20	50K	P8090SCT-ND◆	.46	.35	.31	P8090STR-ND◆	10,000	150.00/M	EVQ-PQHB55
	Light Touch Switch, Super Small	1	.55	4.5	220gf	15	20	50K	P8091SCT-ND◆	.46	.35	.31	P8091STR-ND◆	10,000	150.00/M	EVQ-PQMB55
15	L.T. Switch SPDT Straight Leads w/Mtg. Boss	—	1.5	6.2	100/260gf	15	20	100K	P10845S-ND◆§	.78	.68	.55	—	—	—	EVQ-PWAA15
16	Light Touch Switch, SPDT J Bent Leads	—	1.5	6.2	100/260gf	15	20	100K	P10846SCT-ND◆	1.16	.88	.76	P10846STR-ND◆	5,000	416.00/M	EVQ-PWBA15
17	L.T. Switch SPDT Straight Lead w/Act.	2	0.95	6	70/260gf	15	20	30K	P12285SCT-ND◆	1.09	.82	.71	P12285STR-ND◆	5,000	403.00/M	EVQ-PR3A10
18	Light Touch Switch SPDT	2	0.90	6	100/260gf	15	20	30K	P12286SCT-ND◆	1.03	.78	.67	P12286STR-ND◆	5,000	361.00/M	EVQ-PRBA09
	Light Touch Switch SPDT with Ground	2	0.90	6	100/260gf	15	20	30K	P12288SCT-ND◆	1.15	.87	.75	P12288STR-ND◆	5,000	403.00/M	EVQ-PRDA09
	Light Touch Switch SPDT w/Mounting Boss	2	0.90	6	100/260gf	15	20	30K	P12287SCT-ND◆	1.03	.78	.67	P12287STR-ND◆	5,000	361.00/M	EVQ-3PRA09
	L.T. Switch SPDT w/Mtg. Boss w/Ground	2	0.90	6	100/260gf	15	20	30K	P12289SCT-ND◆	1.15	.87	.75	P12289STR-ND◆	5,000	403.00/M	EVQ-PRHA09
19	Light Touch Switch	2	4.3	6	100gf	12	50	50K	P13593SCT-ND◆	.92	.70	.61	P13593STR-ND◆	2,500	293.00/M	EVQ-PE104K
	Light Touch Switch	2	4.3	6	160gf	12	50	50K	P13597SCT-ND◆	.57	.43	.37	P13597STR-ND◆	2,500	213.00/M	EVQ-PNF04M
	Light Touch Switch	2	4.3	6	240gf	12	50	30K	P13595SCT-ND◆	.80	.60	.52	P13595STR-ND◆	2,500	300.00/M	EVQ-5PN04K
	Light Touch Switch (Long Post)	2	5.0	6	100gf	12	50	50K	P13594SCT-ND◆	.92	.70	.61	P13594STR-ND◆	2,000	346.00/M	EVQ-PE105K
	Light Touch Switch (Long Post)	2	5.0	6	160gf	12	50	50K	P13598SCT-ND◆	.92	.70	.61	P13598STR-ND◆	2,000	346.00/M	EVQ-PNF05M
	Light Touch Switch (Long Post)	2	5.0	6	240gf	12	50	30K	P13596SCT-ND◆	.80	.60	.52	P13596STR-ND◆	2,000	300.00/M	EVQ-5PN05K
20A	Light Touch Switch J Bent Leads	2	2.5	6	160gf	12	50	50K	P8086SCT-ND◆	.71	.54	.47	P8086STR-ND◆	4,000	258.00/M	EVQ-PPBA25
	Light Touch Switch Terminals	2	2.5	6	240gf	12	50	50K	P8087SCT-ND◆	.70	.53	.46	P8087STR-ND◆	4,000	254.00/M	EVQ-PPDA25
20B	Light Touch Switch J Bent Leads	2	2.5	6	160gf	12	50	500K	P12272SCT-ND◆	.90	.68	.59	—	—	—	EVQ-PPKA25
	Light Touch Switch with Ground	2	2.5	6	240gf	12	50	300K	P12273SCT-ND◆	1.10	.83	.72	—	—	—	EVQ-PPMA25

◆ ***RoHS Compliant*** Note: All switches are non-washable unless otherwise noted. § Bulk *(Continued)*

Fig. 26

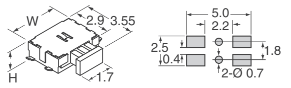

Fig. 27

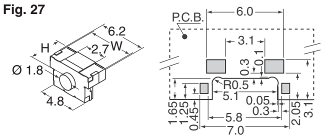

Fig. 28

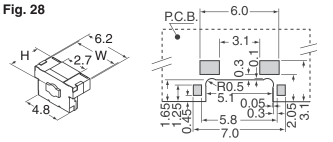

Fig. 29

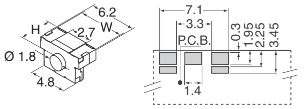

Fig. 30

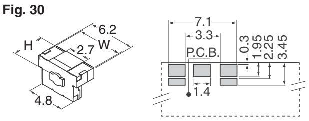

Fig. 31

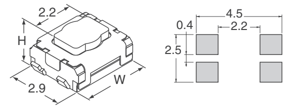

Fig. 32

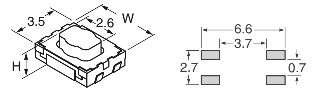

Fig. 33

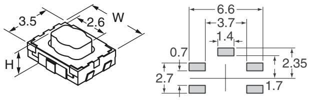

Fig. 34

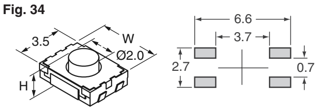

Fig. 35

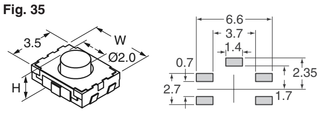

Fig. 36

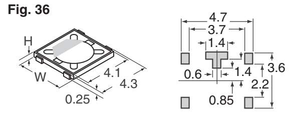

Fig. 37

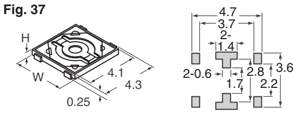

Fig. 38

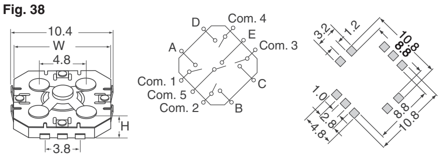

Fig. 39

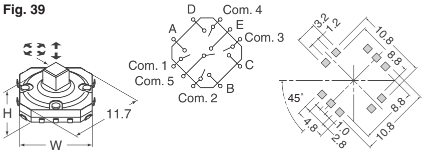

Fig. 40

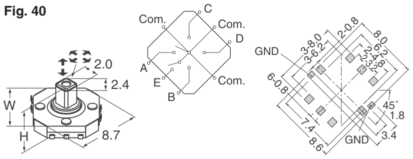

Fig.	Description	Circuit Dia.	Dimensions (mm) H	Dimensions (mm) W	Operating Force	Voltage Rating (VDC)	Current Rating (mA)	Oper-ating Life	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
21	L.T. Switch Straight Leads No Mtg. Boss	1	1.65	4.7	160gf	12	50	100K	P10851SCT-ND◆	1.07	.80	.70	P10851STR-ND◆	4,000	386.00/M	EVQ-PUJ02K
	L.T. Switch Straight Leads with Mtg. Boss	1	1.65	4.7	160gf	12	50	100K	P10853SCT-ND◆	.76	.57	.50	P10853STR-ND◆	4,000	275.00/M	EVQ-PUL02K
	L.T. Switch Straight Leads No Mtg. Boss	1	1.65	4.7	220gf	12	50	100K	P10847SCT-ND◆	.76	.57	.50	P10847STR-ND◆	4,000	275.00/M	EVQ-PUA02K
	L.T. Switch Straight Leads with Mtg. Boss	1	1.65	4.7	220gf	12	50	100K	P10849SCT-ND◆	.76	.57	.50	P10849STR-ND◆	4,000	275.00/M	EVQ-PUC02K
	L.T. Switch J Bent Leads No Mtg. Boss	1	1.65	4.7	160gf	12	50	100K	P10852SCT-ND◆	1.11	.84	.73	P10852STR-ND◆	4,000	402.00/M	EVQ-PUK02K
	L.T. Switch J Bent Leads with Mtg. Boss	1	1.65	4.7	160gf	12	50	100K	P10854SCT-ND◆	1.07	.80	.70	P10854STR-ND◆	4,000	386.00/M	EVQ-PUM02K
22	L.T. Switch J Bent Leads No Mtg. Boss	1	1.65	4.7	220gf	12	50	100K	P10848SCT-ND◆	1.07	.80	.70	P10848STR-ND◆	4,000	386.00/M	EVQ-PUB02K
	L.T. Switch J Bent Leads with Mtg. Boss	1	1.65	4.7	220gf	12	50	100K	P10850SCT-ND◆	.76	.57	.50	P10850STR-ND◆	4,000	275.00/M	EVQ-PUD02K
23	L.T. Switch Straight Leads No Mtg. Boss	1	1.35	3.5	160gf	12	50	100K	P12278SCT-ND◆	1.17	.88	.77	P12278STR-ND◆	5,000	440.00/M	EVQ-P7J01K
	L.T. Switch Straight Leads No Mtg. Boss	1	1.35	3.5	220gf	12	50	100K	P12277SCT-ND◆	1.17	.88	.77	P12277STR-ND◆	5,000	440.00/M	EVQ-P7A01K
24	L.T. Switch Straight Leads with Mtg. Boss	1	1.35	3.5	160gf	12	50	100K	P12280SCT-ND◆	1.17	.88	.77	P12280STR-ND◆	5,000	440.00/M	EVQ-P7L01K
	L.T. Switch Straight Leads with Mtg. Boss	1	1.35	3.5	220gf	12	50	100K	P12279SCT-ND◆	1.17	.88	.77	P12279STR-ND◆	5,000	440.00/M	EVQ-P7C01K
25	L.T. Switch J Bent Leads No Mtg. Boss	1	1.35	3.5	160gf	12	50	100K	P12282SCT-ND◆	1.17	.88	.77	P12282STR-ND◆	5,000	440.00/M	EVQ-P7K01K
	L.T. Switch J Bent Leads No Mtg. Boss	1	1.35	3.5	220gf	12	50	100K	P12281SCT-ND◆	1.17	.88	.77	P12281STR-ND◆	5,000	440.00/M	EVQ-P7B01K
26	L.T. Switch J Bent Leads with Mtg. Boss	1	1.35	3.5	160gf	12	50	100K	P12284SCT-ND◆	1.17	.88	.77	P12284STR-ND◆	5,000	440.00/M	EVQ-P7M01K
	L.T. Switch J Bent Leads with Mtg. Boss	1	1.35	3.5	220gf	12	50	100K	P12283SCT-ND◆	1.17	.88	.77	P12283STR-ND◆	5,000	440.00/M	EVQ-P7D01K
27	L.T. Switch Edge Mount	2	3.4	5.7	250gf	15	20	500K	P12305SCT-ND◆	1.55	1.17	1.01	P12305STR-ND◆	2,500	582.00/M	EVQ-P4H03B
	L.T. Switch Edge Mount	2	3.4	5.7	350gf	15	20	200K	P12306SCT-ND◆	1.55	1.17	1.01	P12306STR-ND◆	2,500	582.00/M	EVQ-P4K03Q
	L.T. Switch Edge Mount	2	3.4	5.7	500gf	15	20	200K	P12307SCT-ND◆	1.55	1.17	1.01	P12307STR-ND◆	2,500	582.00/M	EVQ-P4M03K
28	L.T. Switch Short Stroke Edge Mount	2	3.0	5.7	100gf	15	20	1,000K	P12308SCT-ND◆	1.50	1.13	.98	P12308STR-ND◆	2,500	561.00/M	EVQ-P4003M
	L.T. Switch Short Stroke Edge Mount	2	3.0	5.7	160gf	15	20	1,000K	P12309SCT-ND◆	1.50	1.13	.98	P12309STR-ND◆	2,500	561.00/M	EVQ-P4203M
	L.T. Switch Short Stroke Edge Mount	2	3.0	5.7	240gf	15	20	500K	P12310SCT-ND◆	1.50	1.13	.98	P12310STR-ND◆	2,500	561.00/M	EVQ-P4403M
	L.T. Switch Short Stroke Edge Mount	2	3.0	5.7	350gf	15	20	200K	P12311SCT-ND◆	1.50	1.13	.98	P12311STR-ND◆	2,500	561.00/M	EVQ-P4603M
29	L.T. Switch PC Board Mount	2	3.4	5.7	250gf	15	20	500K	P12312SCT-ND◆	1.50	1.13	.98	P12312STR-ND◆	2,500	561.00/M	EVQ-P8H03B
	L.T. Switch PC Board Mount	2	3.4	5.7	350gf	15	20	200K	P12313SCT-ND◆	1.50	1.13	.98	P12313STR-ND◆	2,500	561.00/M	EVQ-P8K03Q
30	L.T. Switch Short Stroke PC Board Mnt	2	3.0	5.7	100gf	15	20	1,000K	P12314SCT-ND◆	1.44	1.09	.94	P12314STR-ND◆	2,500	541.00/M	EVQ-P8003M
	L.T. Switch Short Stroke PC Board Mnt	2	3.0	5.7	160gf	15	20	1,000K	P12315SCT-ND◆	1.44	1.09	.94	P12315STR-ND◆	2,500	541.00/M	EVQ-P8203M
	L.T. Switch Short Stroke PC Board Mnt	2	3.0	5.7	240gf	15	20	1,000K	P12316SCT-ND◆	1.44	1.09	.94	P12316STR-ND◆	2,500	541.00/M	EVQ-P8403M
	L.T. Switch Short Stroke PC Board Mnt	2	3.0	5.7	350gf	15	20	500K	P12317SCT-ND◆	1.44	1.09	.94	P12317STR-ND◆	2,500	541.00/M	EVQ-P8603M
31	L.T. Switch J Bent Terminals	1	1.7	3.5	100gf	15	20	1,000k	P13347SCT-ND◆	1.33	1.00	.87	P13347STR-ND◆	5,000	500.00/M	EVP-AA002K
	L.T. Switch J Bent Terminals	1	1.7	3.5	160gf	15	20	200k	P13348SCT-ND◆	1.33	1.00	.87	P13348STR-ND◆	5,000	500.00/M	EVP-AA202K
	L.T. Switch J Bent Terminals	1	1.7	3.5	240gf	15	20	200k	P13349SCT-ND◆	1.33	1.00	.87	P13349STR-ND◆	5,000	500.00/M	EVP-AA402W
	L.T. Switch J Bent Terminals	1	1.7	3.5	350gf	15	20	200k	P13350SCT-ND◆	1.33	1.00	.87	P13350STR-ND◆	5,000	500.00/M	EVP-AA602W
32	L.T. Switch J Bent Leads Short Stroke	1	2.1	4.7	100gf	15	20	1,000K	P12296SCT-ND◆	1.31	.98	.85	P12296STR-ND◆	4,000	489.00/M	EVQ-P2002M
	L.T. Switch J Bent Leads Short Stroke	1	2.1	4.7	160gf	15	20	1,000K	P12298SCT-ND◆	1.31	.98	.85	P12298STR-ND◆	4,000	489.00/M	EVQ-P2202M
	L.T. Switch J Bent Leads Short Stroke	1	2.1	4.7	240gf	15	20	500K	P11080SCT-ND◆	.97	.74	.64	P11080STR-ND◆	4,000	353.00/M	EVQ-P2402M
	L.T. Switch J Bent Leads Short Stroke	1	2.1	4.7	350gf	15	20	200K	P12300SCT-ND◆	1.31	.98	.85	P12300STR-ND◆	4,000	489.00/M	EVQ-P2602M
	L.T. Switch J Bent Leads Short Stroke	1	2.5	4.7	100gf	15	20	1,000K	P12297SCT-ND◆	1.31	.98	.85	P12297STR-ND◆	4,000	489.00/M	EVQ-P2002W
	L.T. Switch J Bent Leads Short Stroke	1	2.5	4.7	160gf	15	20	1,000K	P12299SCT-ND◆	1.31	.98	.85	P12299STR-ND◆	4,000	489.00/M	EVQ-P2202W
	L.T. Switch J Bent Leads Short Stroke	1	2.5	4.7	240gf	15	20	500K	P11081SCT-ND◆	.97	.74	.64	P11081STR-ND◆	4,000	353.00/M	EVQ-P2402W
	L.T. Switch J Bent Leads Short Stroke	1	2.5	4.7	350gf	15	20	200K	P12301SCT-ND◆	1.31	.98	.85	P12301STR-ND◆	4,000	489.00/M	EVQ-P2602W
33	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.1	4.7	100gf	15	20	1,000K	P12290SCT-ND◆	1.44	1.09	.94	P12290STR-ND◆	4,000	541.00/M	EVQ-P2P02M
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.1	4.7	160gf	15	20	1,000K	P12292SCT-ND◆	1.44	1.09	.94	P12292STR-ND◆	4,000	541.00/M	EVQ-P2R02M
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.1	4.7	240gf	15	20	500K	P11082SCT-ND◆	1.08	.81	.70	P11082STR-ND◆	4,000	390.00/M	EVQ-P2T02M
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.1	4.7	350gf	15	20	200K	P12294SCT-ND◆	1.44	1.09	.94	P12294STR-ND◆	4,000	541.00/M	EVQ-P2V02M
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.5	4.7	240gf	15	20	500K	P11083SCT-ND◆	1.44	1.09	.94	P11083STR-ND◆	4,000	523.00/M	EVQ-P2T02W
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.5	4.7	100gf	15	20	1,000K	P12291SCT-ND◆	1.44	1.09	.94	P12291STR-ND◆	4,000	541.00/M	EVQ-P2P02W
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.5	4.7	160gf	15	20	1,000K	P12293SCT-ND◆	1.44	1.09	.94	P12293STR-ND◆	4,000	541.00/M	EVQ-P2R02W
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.5	4.7	350gf	15	20	200K	P12295SCT-ND◆	1.44	1.09	.94	P12295STR-ND◆	4,000	541.00/M	EVQ-P2V02W
34	Light Touch Switch J Bent Leads	1	2.5	4.7	250gf	15	20	1,000K	P12304SCT-ND◆	1.44	1.09	.94	P12304STR-ND◆	4,000	541.00/M	EVQ-P2H02B
	Light Touch Switch J Bent Leads	1	2.5	4.7	350gf	15	20	500K	P11084SCT-ND◆	.97	.74	.64	P11084STR-ND◆	4,000	353.00/M	EVQ-P2K02Q
35	Light Touch Switch J Bent Leads with Ground	1	2.5	4.7	250gf	15	20	1,000K	P12302SCT-ND◆	1.44	1.09	.94	P12302STR-ND◆	4,000	541.00/M	EVQ-P2B02B
	Light Touch Switch J Bent Leads with Ground	1	2.5	4.7	350gf	15	20	500K	P11085SCT-ND◆	1.44	1.09	.94	P11085STR-ND◆	4,000	523.00/M	EVQ-P2D02Q
	Light Touch Switch J Bent Leads with Ground	1	2.5	4.7	500gf	15	20	200K	P12303SCT-ND◆	1.44	1.09	.94	P12303STR-ND◆	4,000	541.00/M	EVQ-P2F02K
36	Light Touch Switch	1	0.35	4.1	160gf	15	20	1,000K	P12324SCT-ND◆	.56	.43	.37	P12324STR-ND◆	10,000	183.00/M	EVQ-P6EB35
	Light Touch Switch	1	0.35	4.1	240gf	15	20	500K	P12325SCT-ND◆	.56	.43	.37	P12325STR-ND◆	10,000	183.00/M	EVQ-P6GB35
	Light Touch Switch	1	0.35	4.1	350gf	15	20	200K	P12326SCT-ND◆	.56	.43	.37	P12326STR-ND◆	10,000	183.00/M	EVQ-P6JB35
37	Light Touch Switch with Actuator	1	0.58	4.1	160gf	15	20	1,000K	P12327SCT-ND◆	.61	.46	.40	P12327STR-ND◆	10,000	197.00/M	EVQ-P6SB55
	Light Touch Switch with Actuator	1	0.58	4.1	240gf	15	20	500K	P12328SCT-ND◆	.61	.46	.40	P12328STR-ND◆	10,000	197.00/M	EVQ-P6UB55
	Light Touch Switch with Actuator	1	0.58	4.1	350gf	15	20	200K	P12329SCT-ND◆	.61	.46	.40	P12329STR-ND◆	10,000	197.00/M	EVQ-P6WB55
38	Multi-Direction Switch	—	1.55	9.8	320/160gf	15	20	1M	P12330SCT-ND◆	3.94	2.96	2.56	P12330STR-ND◆	2,000	1477.00/M	EVQ-Q3AA15
39	Light Touch Multi-Direction Switch	—	5.0	9.8	320/160gf	15	20	1,000K	P13352SCT-ND◆	4.12	3.09	2.68	P13352STR-ND◆	1,200	1545.00/M	EVQ-Q5A05K
40	Light Touch Multi-Direction Switch	—	5.0	7.3	260/130gf	15	20	1,000K	P13351SCT-ND◆	4.24	3.19	2.76	P13351STR-ND◆	3,000	1590.00/M	EVQ-Q7GA50

◆ ***RoHS Compliant*** Note: All switches are non-washable unless otherwise noted. § Bulk

CIRCUIT DIAGRAM 1

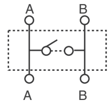

CIRCUIT DIAGRAM 2

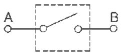

Fig. 1

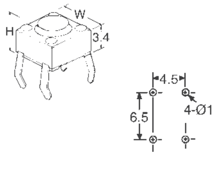

Fig. 2

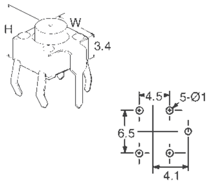

Fig. 3

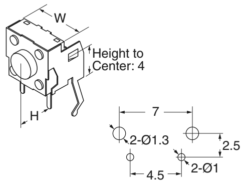

Fig. 4

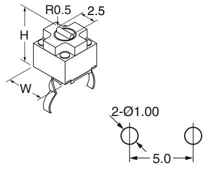

Fig. 5

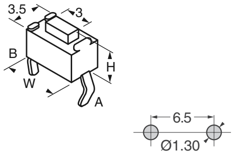

Fig. 6

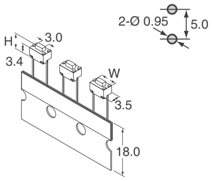

Fig. 7

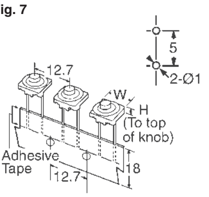

Fig. 8

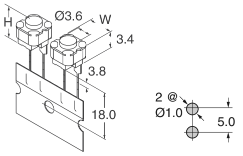

Fig. 9

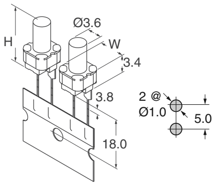

Fig. 10

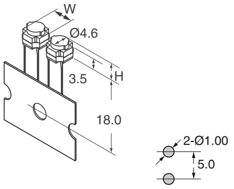

Fig. 11

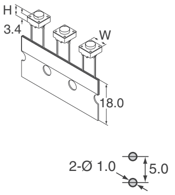

Fig. 12

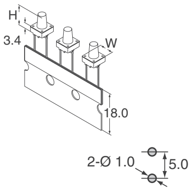

Fig. 13

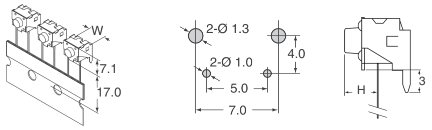

Fig.	Description	Circuit Diagram	Dim. (mm)		Operating Force	Volt Rating (VDC)	Current Rating (mA)	Oper-ating Life	Digi-Key Part No.	Pricing				Panasonic Part No.
			H	W						1	10	100	1,000	
	6mm Type													
1	Light Touch Switch Standard	1	4.3	6	100gf	15	20	100K	P8006S-ND◆	.29	2.19	18.98	121.00	EVQ-PAC04M
	Light Touch Switch Standard	1	4.3	6	130gf	15	20	100K	P8007S-ND◆	.29	2.19	18.98	121.00	EVQ-PAD04M
	Light Touch Switch Standard	1	4.3	6	160gf	15	20	100K	P8008S-ND◆	.29	2.19	18.98	121.00	EVQ-PAE04M
	Light Touch Switch Standard	1	4.3	6	250gf	15	20	100K	P8009S-ND◆	.29	2.19	18.98	121.00	EVQ-PAG04M
	Light Touch Switch Standard	1	5	6	100gf	15	20	100K	P8010S-ND◆	.29	2.19	18.98	121.00	EVQ-PAC05R
	Light Touch Switch Standard	1	5	6	130gf	15	20	100K	P10890S-ND◆	.42	3.18	27.56	176.00	EVQ-PAD05R
	Light Touch Switch Standard	1	5	6	160gf	15	20	100K	P12192S-ND	.30	2.26	19.60	125.16	EVQ-PAE05R
	Light Touch Switch Standard	1	5	6	260gf	15	20	50K	P12195S-ND◆	.30	2.26	19.60	125.16	EVQ-PAG05R
	Light Touch Switch Standard	1	7	6	100gf	15	20	100K	P8011S-ND◆	.29	2.19	18.98	121.00	EVQ-PAC07K
	Light Touch Switch Standard	1	7	6	130gf	15	20	100K	P10891S-ND◆	.50	3.75	32.50	208.00	EVQ-PAD07K
	Light Touch Switch Standard	1	7	6	160gf	15	20	100K	P12193S-ND◆	.30	2.26	19.60	125.16	EVQ-PAE07K
	Light Touch Switch Standard	1	7	6	260gf	15	20	50K	P12196S-ND◆	.30	2.26	19.60	125.16	EVQ-PAG07K
	Light Touch Switch Standard (Long Post)	1	9.5	6	100gf	15	20	100K	P8012S-ND◆	.29	2.19	18.98	121.00	EVQ-PAC09K
	Light Touch Switch Standard (Long Post)	1	9.5	6	130gf	15	20	100K	P10892S-ND◆	.50	3.75	32.50	207.50	EVQ-PAD09K
	Light Touch Switch Standard (Long Post)	1	9.5	6	160gf	15	20	100K	P12194S-ND◆	.28	2.09	18.12	115.70	EVQ-PAE09K
	Light Touch Switch Standard (Long Post)	1	9.5	6	260gf	15	20	50K	P12197S-ND◆	.30	2.26	19.60	125.16	EVQ-PAG09K
2	Light Touch Switch Standard with Ground Terminal	1	4.3	6	100gf	15	20	100K	P8013S-ND◆	.30	2.28	19.79	126.00	EVQ-PBC04M
	Light Touch Switch Standard with Ground Terminal	1	4.3	6	130gf	15	20	100K	P12198S-ND	.29	2.21	19.14	122.18	EVQ-PBD04M
	Light Touch Switch Standard with Ground Terminal	1	4.3	6	160gf	15	20	100K	P12200S-ND	.32	2.39	20.67	131.97	EVQ-PBE04M
	Light Touch Switch Standard with Ground Terminal	1	4.3	6	260gf	15	20	50K	P12204S-ND	.36	2.72	23.53	150.23	EVQ-PBG04M
	Light Touch Switch Standard with Ground Terminal	1	5	6	100gf	15	20	100K	P8014S-ND◆	.23	1.72	14.87	94.97	EVQ-PBC05R
	Light Touch Switch Standard with Ground Terminal	1	5	6	130gf	15	20	100K	P10893S-ND◆	.32	2.41	20.88	133.30	EVQ-PBD05R
	Light Touch Switch Standard with Ground Terminal	1	5	6	160gf	15	20	100K	P12201S-ND◆	.32	2.39	20.67	131.97	EVQ-PBE05R
	Light Touch Switch Standard with Ground Terminal	1	5	6	260gf	15	20	50K	P12205S-ND◆	.36	2.72	23.53	150.23	EVQ-PBG05R
	Light Touch Switch Standard with Ground Terminal	1	7	6	100gf	15	20	100K	P8015S-ND◆	.29	2.21	19.14	122.18	EVQ-PBC07K
	Light Touch Switch Standard with Ground Terminal	1	7	6	130gf	15	20	100K	P10894S-ND◆	.38	2.85	24.70	158.00	EVQ-PBD07K
	Light Touch Switch Standard with Ground Terminal	1	7	6	160gf	15	20	100K	P12202S-ND	.32	2.39	20.67	131.97	EVQ-PBE07K
	Light Touch Switch Standard with Ground Terminal	1	7	6	260gf	15	20	50K	P12206S-ND	.36	2.72	23.53	150.23	EVQ-PBG07K
	Light Touch Switch Standard w/Ground Term. (Long Post)	1	9.5	6	100gf	15	20	100K	P8016S-ND◆	.30	2.24	19.37	123.67	EVQ-PBC09K
	Light Touch Switch Standard w/Ground Term. (Long Post)	1	9.5	6	130gf	15	20	100K	P12199S-ND◆	.29	2.21	19.14	122.18	EVQ-PBD09K
	Light Touch Switch Standard w/Ground Term. (Long Post)	1	9.5	6	160gf	15	20	100K	P12203S-ND◆	.32	2.39	20.67	131.97	EVQ-PBE09K
	Light Touch Switch Standard w/Ground Term. (Long Post)	1	9.5	6	260gf	15	20	50K	P12207S-ND◆	.36	2.72	23.53	150.23	EVQ-PBG09K
3	Light Touch Switch Right Angle	2	3.15	7.5	100gf	15	20	100K	P10877S-ND◆	.29	2.16	18.72	119.52	EVQ-PF003M
	Light Touch Switch Right Angle	2	3.15	7.5	130gf	15	20	100K	P10881S-ND◆	.36	2.66	23.09	147.41	EVQ-PF103M
	Light Touch Switch Right Angle	2	3.15	7.5	160gf	15	20	100K	P12208S-ND◆	.36	2.66	23.09	147.41	EVQ-PF203M
	Light Touch Switch Right Angle	2	3.15	7.5	260gf	15	20	50K	P12212S-ND◆	.36	2.72	23.53	150.23	EVQ-PF303M
	Light Touch Switch Right Angle	2	3.85	7.5	100gf	15	20	100K	P10878S-ND◆	.36	2.66	23.09	147.41	EVQ-PF004R
	Light Touch Switch Right Angle	2	3.85	7.5	130gf	15	20	100K	P10882S-ND◆	.40	2.97	25.74	164.34	EVQ-PF104R
	Light Touch Switch Right Angle	2	3.85	7.5	160gf	15	20	100K	P12209S-ND◆	.36	2.66	23.09	147.41	EVQ-PF204R
	Light Touch Switch Right Angle	2	3.85	7.5	260gf	15	20	50K	P12213S-ND◆	.36	2.72	23.53	150.23	EVQ-PF304R

◆ ***RoHS Compliant***

(Continued)

Panasonic Momentary Pushbutton Switches *(Cont.)*

Fig.	Description	Circuit Diagram	Dim. (mm) H	W	Operating Force	Volt Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
3	Light Touch Switch Right Angle	2	5.85	7.5	100gf	15	20	100K	P10879S-ND◆	.36	2.66	23.09	147.41	EVQ-PF006K
	Light Touch Switch Right Angle	2	5.85	7.5	130gf	15	20	100K	P10883S-ND◆	.36	2.66	23.09	147.41	EVQ-PF106K
	Light Touch Switch Right Angle	2	5.85	7.5	160gf	15	20	100K	P12210S-ND◆	.36	2.66	23.09	147.41	EVQ-PF206K
	Light Touch Switch Right Angle	2	5.85	7.5	260gf	15	20	50K	P12214S-ND◆	.36	2.72	23.53	150.23	EVQ-PF306K
	Light Touch Switch Right Angle (Long Post)	2	8.35	7.5	100gf	15	20	100K	P10880S-ND◆	.29	2.16	18.72	119.52	EVQ-PF008K
	Light Touch Switch Right Angle (Long Post)	2	8.35	7.5	130gf	15	20	100K	P10884S-ND◆	.29	2.16	18.72	119.52	EVQ-PF108K
	Light Touch Switch Right Angle (Long Post)	2	8.35	7.5	160gf	15	20	100K	P12211S-ND◆	.36	2.66	23.09	147.41	EVQ-PF208K
	Light Touch Switch Right Angle (Long Post)	2	8.35	7.5	260gf	15	20	50K	P12215S-ND◆	.36	2.72	23.53	150.23	EVQ-PF308K
4	Light Touch Switch With Over Travel	2	7.45	6.2	75gf	30	50	100K	P10843S-ND◆	.55	4.14	35.85	228.91	EVQ-P0E07K
	Light Touch Switch With Over Travel	2	7.45	6.2	130gf	30	50	100K	P10844S-ND◆	.55	4.14	35.85	228.91	EVQ-P0D07K
	6mm x 3.5mm Type — RoHS Compliant													
5	Light Touch Switch Top Push	2	4.3	6	100gf	12	50	50K	P13587S-ND	.71	5.30	45.92	317.88	EVQ-PE404Q
	Light Touch Switch Top Push	2	4.3	6	160gf	12	50	50K	P13589S-ND	.78	5.84	50.60	350.28	EVQ-PE504K
	Light Touch Switch Top Push	2	4.3	6	240gf	12	50	30K	P13591S-ND	.73	5.49	47.55	329.22	EVQ-PE604T
	Light Touch Switch Top Push	2	5	6	100gf	12	20	50K	P8057S-ND	.71	5.30	45.91	318.00	EVQ-PJA05Q
	Light Touch Switch Top Push	2	5	6	100gf	12	50	50K	P13588S-ND	.50	3.76	32.55	225.36	EVQ-PE405Q
	Light Touch Switch Top Push	2	5	6	160gf	12	50	50K	P13590S-ND	.71	5.30	45.92	317.88	EVQ-PE505K
	Light Touch Switch Top Push	2	5	6	240gf	12	50	30K	P13592S-ND	.73	5.49	47.55	329.22	EVQ-PE605T

Fig.	Description	Circuit Diagram	Dim. (mm) H	W	Operating Force	Volt Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Qty.	Pricing	Panasonic Part No.
6	Light Touch Switch Top Push	2	4.3	6	100gf	12	50	50K	P12236SCT-ND◆	.79	5.94	51.48	P12236STB-ND◆	2,000	297.00/M	EVQ-PJG04Q
	Light Touch Switch Top Push	2	4.3	6	160gf	12	50	50K	P12238SCT-ND◆	.79	5.94	51.48	P12238STB-ND◆	2,000	297.00/M	EVQ-PJH04K
	Light Touch Switch Top Push	2	4.3	6	240gf	12	50	30K	P12240SCT-ND◆	.79	5.94	51.48	P12240STB-ND◆	2,000	297.00/M	EVQ-PJJ04T
	Light Touch Switch Top Push	2	5	6	100gf	12	50	50K	P12237SCT-ND◆	.79	5.94	51.48	P12237STB-ND◆	2,000	297.00/M	EVQ-PJG05Q
	Light Touch Switch Top Push	2	5	6	160gf	12	50	50K	P12239SCT-ND◆	.79	5.94	51.48	P12239STB-ND◆	2,000	297.00/M	EVQ-PJH05K
	Light Touch Switch Top Push	2	5	6	240gf	12	50	30K	P12241SCT-ND◆	.79	5.94	51.48	P12241STB-ND◆	2,000	297.00/M	EVQ-PJJ05T
	6mm Round Type															
7	Light Touch Switch Long Travel	2	5	8	80gf	12	5	1000K	P8029SCT-ND◆	.81	6.05	52.41	P8029STB-ND◆	1,000	310.00	EVQ-QJJ05Q
	Light Touch Switch Long Travel	2	5	8	130gf	12	5	100K	P12242SCT-ND◆	.81	6.06	52.52	P12242STB-ND◆	1,000	302.00	EVQ-QJE05D
	Light Touch Switch Long Travel	2	5	8	250gf	12	5	100K	P12243SCT-ND◆	.81	6.06	52.52	P12243STB-ND◆	1,000	302.00	EVQ-QJD05B
8	Light Touch Switch	2	4.3	6	100gf	15	20	100K	P8070SCT-ND◆	.38	2.82	24.44	P8070STB-ND◆	2,500	141.00/M	EVQ-11A04M
	Light Touch Switch	2	4.3	6	130gf	15	20	100K	P8074SCT-ND	.38	2.82	24.44	P8074STB-ND◆	2,500	141.00/M	EVQ-11G04M
	Light Touch Switch	2	4.3	6	160gf	15	20	100K	P8078SCT-ND	.38	2.82	24.44	P8078STB-ND◆	2,500	141.00/M	EVQ-11L04M
	Light Touch Switch	2	4.3	6	260gf	15	20	100K	P8082SCT-ND	.38	2.82	24.44	P8082STB-ND◆	2,500	141.00/M	EVQ-11U04M
	Light Touch Switch	2	5	6	100gf	15	20	100K	P8071SCT-ND	.38	2.82	24.44	P8071STB-ND◆	2,500	141.00/M	EVQ-11A05R
	Light Touch Switch	2	5	6	130gf	15	20	100K	P8075SCT-ND◆	.38	2.82	24.44	P8075STB-ND◆	2,500	141.00/M	EVQ-11G05R
	Light Touch Switch	2	5	6	160gf	15	20	100K	P8079SCT-ND◆	.38	2.82	24.44	P8079STB-ND◆	2,500	141.00/M	EVQ-11L05R
	Light Touch Switch	2	5	6	260gf	15	20	100K	P8083SCT-ND	.38	2.82	24.44	P8083STB-ND◆	2,500	141.00/M	EVQ-11U05R
	Light Touch Switch	2	7	6	100gf	15	20	100K	P8072SCT-ND◆	.38	2.82	24.44	P8072STB-ND◆	2,500	141.00/M	EVQ-11A07K
	Light Touch Switch	2	7	6	130gf	15	20	100K	P8076SCT-ND	.38	2.82	24.44	P8076STB-ND	2,500	141.00/M	EVQ-11G07K
	Light Touch Switch	2	7	6	160gf	15	20	100K	P8080SCT-ND◆	.38	2.82	24.44	P8080STB-ND◆	2,500	141.00/M	EVQ-11L07K
	Light Touch Switch	2	7	6	260gf	15	20	100K	P8084SCT-ND◆	.38	2.82	24.44	P8084STB-ND◆	2,500	141.00/M	EVQ-11U07K
9	Light Touch Switch (Long Post)	2	9.5	6	100gf	15	20	100K	P8073SCT-ND◆	.38	2.82	24.44	P8073STB-ND◆	2,500	141.00/M	EVQ-11A09K
	Light Touch Switch (Long Post)	2	9.5	6	130gf	15	20	100K	P8077SCT-ND◆	.38	2.82	24.44	P8077STB-ND◆	2,500	141.00/M	EVQ-11G09K
	Light Touch Switch (Long Post)	2	9.5	6	160gf	15	20	100K	P8081SCT-ND◆	.38	2.82	24.44	P8081STB-ND◆	2,500	141.00/M	EVQ-11L09K
	Light Touch Switch (Long Post)	2	9.5	6	260gf	15	20	100K	P8085SCT-ND◆	.38	2.82	24.44	P8085STB-ND◆	2,500	141.00/M	EVQ-11U09K
10	Light Touch Switch Long Travel	2	5	6	200gf	12	50	100K	P10856SCT-ND◆	1.10	8.26	71.55	P10856STB-ND◆	2,500	413.00/M	EVQ-PVG05K
	Light Touch Switch Long Travel	2	5	6	220gf	12	50	100K	P10855SCT-ND◆	1.41	10.56	91.49	P10855STB-ND◆	2,500	528.00/M	EVQ-PVA05K
	Light Touch Switch Long Travel	2	5	6	250gf	12	50	100K	P10858SCT-ND◆	1.41	10.56	91.49	P10858STB-ND◆	2,500	528.00/M	EVQ-PVF05K
	Light Touch Switch Long Travel	2	5	6	350gf	12	50	100K	P10857SCT-ND◆	1.10	8.26	71.55	P10857STB-ND◆	2,500	413.00/M	EVQ-PVH05K
	6mm Square Type															
11	Light Touch Switch	2	4.3	6	100gf	15	20	100K	P12216SCT-ND◆	.33	2.47	21.37	P12216STB-ND◆	1,000	123.00	EVQ-21304M
	Light Touch Switch	2	4.3	6	130gf	15	20	100K	P12220SCT-ND◆	.33	2.47	21.37	P12220STB-ND◆	1,000	123.00	EVQ-21404M
	Light Touch Switch	2	4.3	6	160gf	15	20	100K	P12224SCT-ND	.51	3.82	33.07	P12224STB-ND◆	1,000	191.00	EVQ-21504M
	Light Touch Switch	2	4.3	6	260gf	15	20	50K	P12228SCT-ND◆	.33	2.47	21.37	P12228STB-ND◆	1,000	123.00	EVQ-22704M
	Light Touch Switch	2	5	6	100gf	15	20	100K	P12217SCT-ND	.52	3.93	34.06	P12217STB-ND◆	1,000	197.00	EVQ-21305R
	Light Touch Switch	2	5	6	130gf	15	20	100K	P12221SCT-ND◆	.51	3.82	33.07	P12221STB-ND◆	1,000	191.00	EVQ-21405R
	Light Touch Switch	2	5	6	160gf	15	20	100K	P12225SCT-ND	.33	2.47	21.37	P12225STB-ND◆	1,000	123.00	EVQ-21505R
	Light Touch Switch	2	5	6	260gf	15	20	50K	P12229SCT-ND	.33	2.47	21.37	P12229STB-ND	1,000	123.00	EVQ-22705R
	Light Touch Switch	2	7	6	100gf	15	20	100K	P12218SCT-ND◆	.33	2.47	21.37	P12218STB-ND◆	1,000	123.00	EVQ-21307K
	Light Touch Switch	2	7	6	130gf	15	20	100K	P12222SCT-ND◆	.33	2.47	21.37	P12222STB-ND◆	1,000	123.00	EVQ-21407K
	Light Touch Switch	2	7	6	160gf	15	20	100K	P12226SCT-ND	.33	2.47	21.37	P12226STB-ND	1,000	123.00	EVQ-21507K
	Light Touch Switch	2	7	6	260gf	15	20	50K	P12230SCT-ND◆	.33	2.47	21.37	P12230STB-ND◆	1,000	123.00	EVQ-22707K
12	Light Touch Switch (Long Post)	2	9.5	6	100gf	15	20	100K	P12219SCT-ND◆	.33	2.47	21.37	P12219STB-ND◆	1,000	123.00	EVQ-21309K
	Light Touch Switch (Long Post)	2	9.5	6	130gf	15	20	100K	P12223SCT-ND◆	.33	2.47	21.37	P12223STB-ND◆	1,000	123.00	EVQ-21409K
	Light Touch Switch (Long Post)	2	9.5	6	160gf	15	20	100K	P12227SCT-ND◆	.33	2.47	21.37	P12227STB-ND◆	1,000	123.00	EVQ-21509K
	Light Touch Switch (Long Post)	2	9.5	6	260gf	15	20	50K	P12231SCT-ND◆	.33	2.47	21.37	P12231STB-ND◆	1,000	123.00	EVQ-22709K
13	Light Touch Switch Right Angle	2	4.75	7.5	100gf	15	20	100K	P12232SCT-ND◆	.39	2.95	25.60	P12232STB-ND◆	700	103.60	EVQ-PCF05K
	Light Touch Switch Right Angle	2	4.75	7.5	130gf	15	20	100K	P12233SCT-ND◆	.39	2.95	25.60	P12233STB-ND◆	700	103.60	EVQ-PCG05K
	Light Touch Switch Right Angle	2	4.75	7.5	160gf	15	20	100K	P12234SCT-ND◆	.39	2.95	25.60	P12234STB-ND◆	700	103.60	EVQ-PCH05K
	Light Touch Switch Right Angle	2	4.75	7.5	260gf	15	20	100K	P12235SCT-ND◆	.39	2.95	25.60	P12235STB-ND◆	700	103.60	EVQ-PCD05K

◆ ***RoHS Compliant***

I

Panasonic Detector Switches

Fig. 1

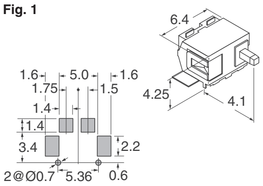

Fig. 2

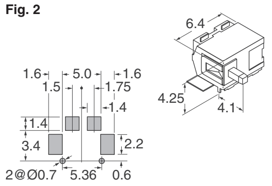

Fig. 3

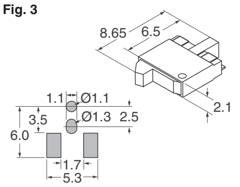

Fig. 4

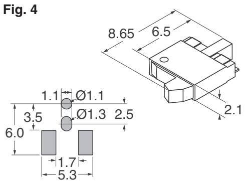

Fig. 5

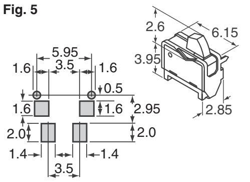

Fig. 6

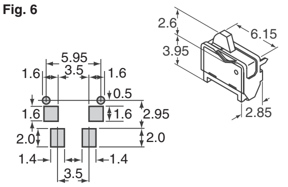

Fig. 7

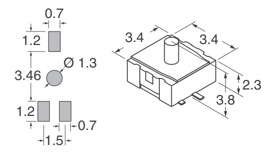

Fig. 8

ESE-2161 Series, NC Contact With or Without Boss

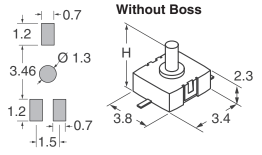

Fig. 9

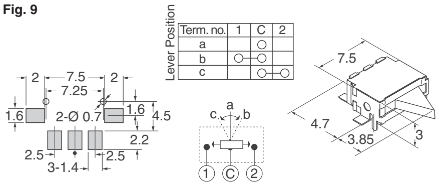

Fig. 10

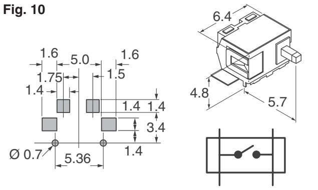

Fig. 11

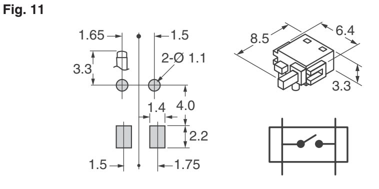

Fig. 12

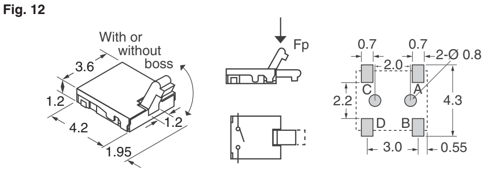

Fig. 13

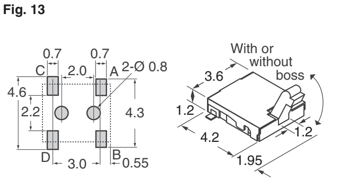

Fig. 14

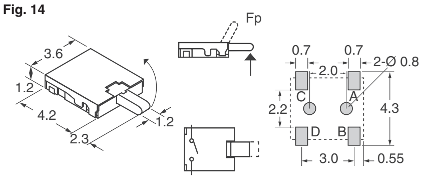

Fig. 15

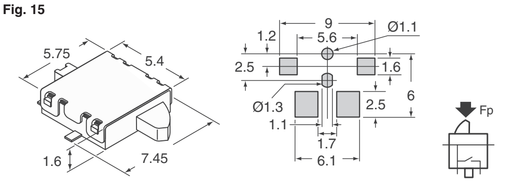

Fig. 16

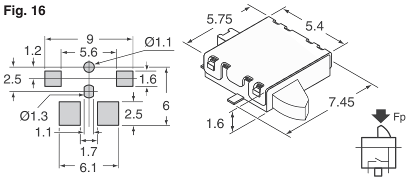

Fig. 17 — J-Bent Terminal Type

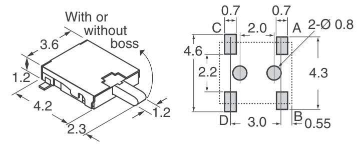

Fig. 18 — J-Bent Terminal Type

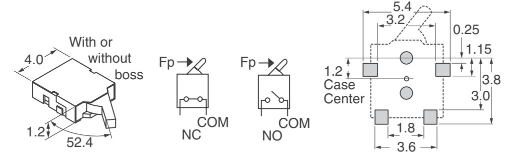

Fig.	Description	Rating	OP Force	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
1	SMD Horizontal Mount	5VDC, 10mA	35.7gf	P8097SCT-ND◆	.82	.62	.54	.41	P8097STR-ND◆	1,500	308.00/M	ESE-11MH1T
2	SMD Horizontal Mount	5VDC, 10mA	35.7gf	P8098SCT-ND◆	.82	.62	.54	.41	P8098STR-ND◆	1,500	308.00/M	ESE-11MH2T
3	SMD Horizontal Mount	5VDC, 10mA	31gf	P8094SCT-ND◆	.82	.62	.54	.41	—	—	—	ESE-22MH2
	SMD Horizontal Mount	5VDC, 10mA	30gf	P13583SCT-ND◆	.82	.62	.54	.41	P13583STR-ND◆	4,000	297.00/M	ESE-22MH22
4	SMD Horizontal Mount	5VDC, 10mA	31gf	P8095SCT-ND◆	.82	.62	.54	.41	P8095STR-ND◆	4,000	297.00/M	ESE-22MH4
	SMD Horizontal Mount	5VDC, 10mA	30gf	P13584SCT-ND◆	.82	.62	.54	.41	P13584STR-ND◆	4,000	297.00/M	ESE-22MH24
5	SMD Horizontal Mount	5VDC, 10mA	30gf	P13374SCT-ND◆	.82	.62	.54	.41	P13374STR-ND◆	3,000	308.00/M	ESE-22MH52
6	SMD Horizontal Mount	5VDC, 10mA	30gf	P13375SCT-ND◆	.82	.62	.54	.41	P13375STR-ND◆	3,000	308.00/M	ESE-22MH54
7	SMD Vertical Mount	5VDC, 10mA	30gf	P13376SCT-ND◆	.68	.51	.45	.34	P13376STR-ND◆	2,000	254.00/M	ESE-2121AT
	SMD Vertical Mount, with Boss	5VDC, 10mA	30gf	P13377SCT-ND◆	.68	.51	.45	.34	P13377STR-ND◆	2,000	254.00/M	ESE-2121BT
8	SMD Vertical Mount, H=4.8	5VDC, 10mA	30gf	P13378SCT-ND◆	.68	.51	.45	.34	P13378STR-ND◆	2,000	254.00/M	ESE-2131AT
	SMD Vertical Mount, H=4.8, with Boss	5VDC, 10mA	31gf	P10869SCT-ND◆	.68	.51	.45	.34	P10869STR-ND◆	2,000	254.00/M	ESE-2131BT
	SMD Vertical Mount, H=3.6, NC	5VDC, 10mA	30gf	P13379SCT-ND◆	1.70	1.28	1.11	.85	P13379STR-ND◆	2,000	636.00/M	ESE-2161AT
	SMD Vertical Mount, H=3.6, NC, with Boss	5VDC, 10mA	30gf	P13380SCT-ND◆	1.70	1.28	1.11	.85	P13380STR-ND◆	2,000	636.00/M	ESE-2161BT
9	SMD Horizontal Mount SPDT	5VDC, 10mA	35.7gf	P10873SCT-ND◆	1.12	.84	.73	.56	P10873STR-ND◆	1,000	405.00	ESE-24MH1T
10	SMD Horizontal Mount	5VDC, 10mA	36gf	P11149SCT-ND◆	.67	.51	.44	.34	P11149STR-ND◆	1,500	250.00/M	ESE-11MH5T
11	SMD Horizontal Mount	5VDC, 10mA	36gf	P11150SCT-ND◆	.67	.51	.44	.34	P11150STR-ND◆	1,500	250.00/M	ESE-11MH6T
12	SMD Horizontal Mount, J-Bent Type	5VDC, 10mA	30gf	P11151SCT-ND◆	.97	.73	.64	.49	P11151STR-ND◆	3,000	351.00/M	ESE-13V01A
	SMD Horizontal Mount, J-Bent Type, with Boss	5VDC, 10mA	30gf	P13354SCT-ND◆	.97	.73	.64	.49	P13354STR-ND◆	3,000	364.00/M	ESE-13V01B
13	SMD Horizontal Mount, Flat Type	5VDC, 10mA	30gf	P13355SCT-ND◆	.97	.73	.64	.49	P13355STR-ND◆	3,000	364.00/M	ESE-13V01C
	SMD Horizontal Mount, Flat Type, with Boss	5VDC, 10mA	30gf	P13356SCT-ND◆	.97	.73	.64	.49	P13356STR-ND◆	3,000	364.00/M	ESE-13V01D
14	SMD Horizontal Mount, J-Bent Type	5VDC, 10mA	30gf	P11152SCT-ND◆	.97	.73	.64	.49	P11152STR-ND◆	5,000	351.00/M	ESE-13H01A
	SMD Horizontal Mount, J-Bent Type, with Boss	5VDC, 10mA	30gf	P13357SCT-ND◆	.97	.73	.64	.49	P13357STR-ND◆	5,000	364.00/M	ESE-13H01B
15	SMD Horizontal Mount, NO, with Boss	5VDC, 10mA	39gf	P13567SCT-ND◆	1.00	.75	.65	.50	P13567STR-ND◆	2,500	361.00/M	ESE-31L11T
16	SMD Horizontal Mount, NO, with Boss	5VDC, 10mA	39gf	P13568SCT-ND◆	1.00	.75	.65	.50	P13568STR-ND◆	2,500	361.00/M	ESE-31R11T
17	SMD Horizontal Mount, Flat Type	5VDC, 10mA	30gf	P13358SCT-ND◆	.97	.73	.64	.49	P13358STR-ND◆	5,000	364.00/M	ESE-13H01C
	SMD Horizontal Mount, Flat Type, with Boss	5VDC, 10mA	30gf	P13359SCT-ND◆	.97	.73	.64	.49	P13359STR-ND◆	5,000	364.00/M	ESE-13H01D
18	SMD Horizontal Mount, NO	5VDC, 10mA	30gf	P13367SCT-ND◆	.91	.69	.60	.46	P13367STR-ND◆	5,000	341.00/M	ESE-18RJ01
	SMD Horizontal Mount, NO, with Boss	5VDC, 10mA	30gf	P11153SCT-ND◆	.91	.69	.60	.46	P11153STR-ND◆	5,000	329.00/M	ESE-18RJ02
	SMD Horizontal Mount, NC	5VDC, 10mA	30gf	P13370SCT-ND◆	1.70	1.28	1.11	.85	P13370STR-ND◆	5,000	636.00/M	ESE-18R61A
	SMD Horizontal Mount, NC, with Boss	5VDC, 10mA	30gf	P13371SCT-ND◆	1.70	1.28	1.11	.85	P13371STR-ND◆	5,000	636.00/M	ESE-18R61B
19	SMD Horizontal Mount, NO	5VDC, 10mA	30gf	P13368SCT-ND◆	.91	.69	.60	.46	P13368STR-ND◆	5,000	341.00/M	ESE-18RF01
	SMD Horizontal Mount, NO, with Boss	5VDC, 10mA	30gf	P13369SCT-ND◆	.91	.69	.60	.46	P13369STR-ND◆	5,000	341.00/M	ESE-18RF02
	SMD Horizontal Mount, NC	5VDC, 10mA	30gf	P13372SCT-ND◆	1.70	1.28	1.11	.85	P13372STR-ND◆	5,000	636.00/M	ESE-18R61C
	SMD Horizontal Mount, NC, with Boss	5VDC, 10mA	30gf	P13373SCT-ND◆	1.70	1.28	1.11	.85	P13373STR-ND◆	5,000	636.00/M	ESE-18R61D

◆ ***RoHS Compliant***

(Continued)

Fig. 19 — Straight Terminal Type

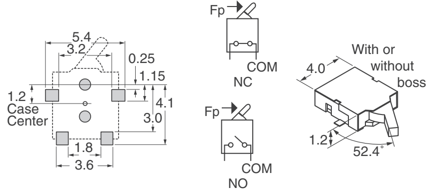

Fig. 20 — J-Bent Terminal Type

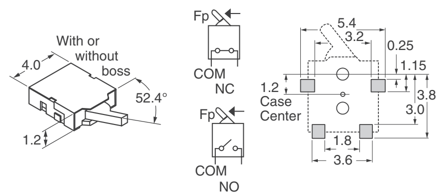

Fig. 21 — Straight Terminal Type

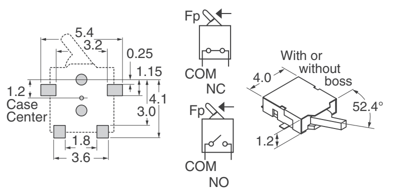

Fig. 22

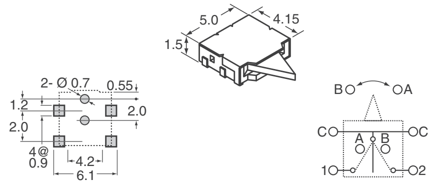

Fig. 23

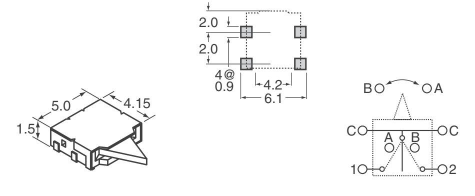

Fig. 24

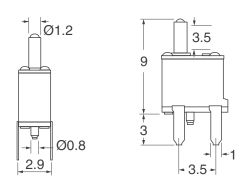

Fig. 25

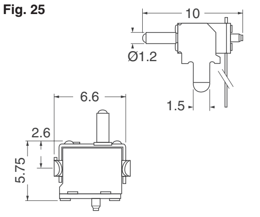

Fig. 26

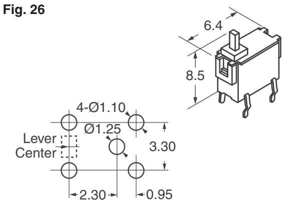

Fig. 27

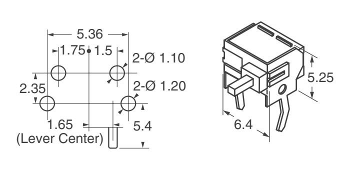

Fig. 28

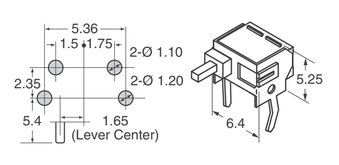

Fig. 29

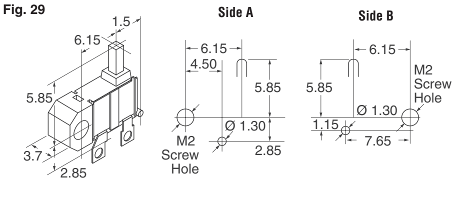

Fig. 30

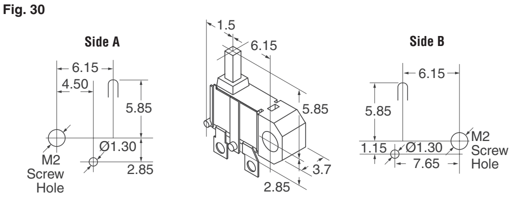

Fig. 31

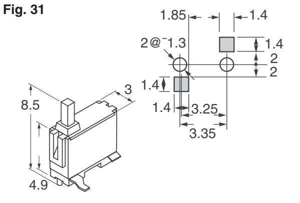

Fig. 32

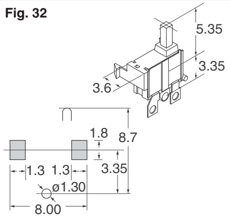

Fig. 33

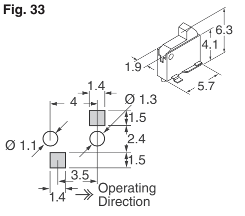

Fig. 34

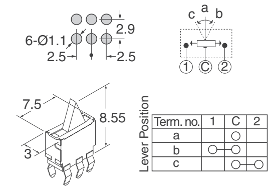

Fig. 35

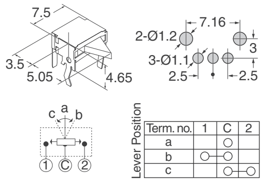

Fig. 36

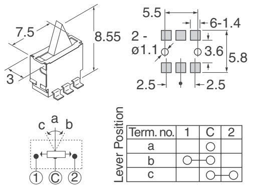

Fig.	Description	Rating	OP Force	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Panasonic Part No.
20	SMD Horizontal Mount, NO	5VDC, 10mA	30gf	P13360SCT-ND◆	.91	.69	.60	.46	P13360STR-ND◆	5,000	341.00/M	ESE-18LJ01
	SMD Horizontal Mount, NO, with Boss	5VDC, 10mA	30gf	P11154SCT-ND◆	.91	.69	.60	.46	P11154STR-ND◆	5,000	329.00/M	ESE-18LJ02
	SMD Horizontal Mount, NC	5VDC, 10mA	30gf	P13363SCT-ND◆	1.70	1.28	1.11	.85	P13363STR-ND◆	5,000	636.00/M	ESE-18L61A
	SMD Horizontal Mount, NO, with Boss	5VDC, 10mA	30gf	P13364SCT-ND◆	1.70	1.28	1.11	.85	P13364STR-ND◆	5,000	636.00/M	ESE-18L61B
21	SMD Horizontal Mount, NO	5VDC, 10mA	30gf	P13361SCT-ND◆	.91	.69	.60	.46	P13361STR-ND◆	5,000	341.00/M	ESE-18LF01
	SMD Horizontal Mount, NO, with Boss	5VDC, 10mA	30gf	P13362SCT-ND◆	.91	.69	.60	.46	P13362STR-ND◆	5,000	341.00/M	ESE-18LF02
	SMD Horizontal Mount, NC	5VDC, 10mA	30gf	P13365SCT-ND◆	1.70	1.28	1.11	.85	P13365STR-ND◆	5,000	636.00/M	ESE-18L61C
	SMD Horizontal Mount, NC, with Boss	5VDC, 10mA	30gf	P13366SCT-ND◆	1.70	1.28	1.11	.85	P13366STR-ND◆	5,000	636.00/M	ESE-18L61D
22	SMD Horizontal Mount	5VDC, 10mA	30gf	P12340SCT-ND◆	1.21	.91	.79	.61	P12340STR-ND◆	4,000	454.00/M	ESE-23J101
	SMD Horizontal Mount	5VDC, 10mA	30gf	P12342SCT-ND◆	1.21	.91	.79	.61	P12342STR-ND◆	4,000	454.00/M	ESE-23F101
23	SMD Horizontal Mount	5VDC, 10mA	30gf	P12341SCT-ND◆	1.21	.91	.79	.61	P12341STR-ND◆	4,000	454.00/M	ESE-23J001
	SMD Horizontal Mount	5VDC, 10mA	30gf	P12343SCT-ND◆	1.21	.91	.79	.61	P12343STR-ND◆	4,000	454.00/M	ESE-23F001
24	PC Vertical Mount	5VDC, 10mA	35gf	P8039S-ND	.95	.71	.62	—	—	—	—	ESE-105SV1
25	PC Horizontal Mount	5VDC, 10mA	35gf	P8040S-ND	1.08	.81	.70	—	—	—	—	ESE-105SH1
26	PC Vertical Mount	5VDC, 10mA	35gf	P8062S-ND◆	.71	.54	.47	.38	—	—	—	ESE-11SV1
27	PC Horizontal Mount	5VDC, 10mA	35gf	P10862S-ND◆	.71	.54	.47	.36	—	—	—	ESE-11SH1C
28	PC Horizontal Mount	5VDC, 10mA	35gf	P10863S-ND◆	.71	.54	.47	.36	—	—	—	ESE-11SH2C
29	Tabbed with Mounting Hole	5VDC, 10mA	35gf	P10864S-ND◆	.78	.59	.51	.40	—	—	—	ESE-11HS1
30	Tabbed with Mounting Hole	5VDC, 10mA	35gf	P10865S-ND◆	.78	.59	.51	.40	—	—	—	ESE-11HS2
31	SMD Vertical Mount	5VDC, 10mA	35gf	P10866S-ND◆	.78	.59	.51	.40	—	—	—	ESE-11MV1
32	Snap-In with Tabs Horizontal Mount	5VDC, 10mA	35gf	P10867S-ND◆	.78	.59	.51	.40	—	—	—	ESE-11SF1A
33	SMD Vertical Mount	5VDC, 10mA	30gf	P13585SCT-ND◆	.80	.61	.53	.41	P13585STR-ND◆	1,000	291.00	ESE-22MV21T
34	PC Vertical Mount SPDT	5VDC, 10mA	35.7gf	P10870S-ND◆	1.12	.84	.73	.56	—	—	—	ESE-24SV3
35	PC Horizontal Mount SPDT	5VDC, 10mA	35.7gf	P10871S-ND◆	1.12	.84	.73	.56	—	—	—	ESE-24SH1
36	SMD Vertical Mount SPDT	5VDC, 10mA	35.7gf	P10872S-ND◆	1.12	.84	.73	.56	—	—	—	ESE-24MV1

◆ ***RoHS Compliant***

C&K Detect Switches

DDS Series
Micro Mini Thru-Hole Detect Switches

The DDS series delivers 2mm over-travel, making them ideally suited for detector applications such as CD ROM card readers, copiers and medical. **Specifications:** • Contact Rating: 0.1A@30VDC • Operating Temperature: -25°C ~ 80°C • Life Cycle: 50,000 • Operating Force: Less than 40gF

DDS001

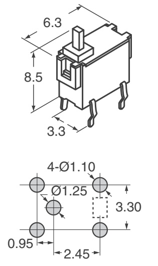

DDS002

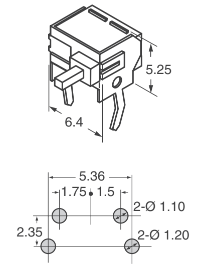

DDS003

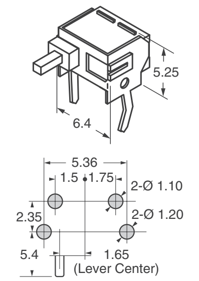

Description	Digi-Key Part No.	1	Price Each 25	100	C&K Part No.
Vertical Mount	401-1734-ND	.97	.78	.62	DDS001
Horizontal Mount	401-1735-ND	1.05	.84	.67	DDS002
Horizontal Mount	401-1736-ND	1.07	.86	.68	DDS003

SDS Series
Side Actuated Detect Switches

Standing only 2mm off PCB covering 5.7mm x 5.0mm of board space with both NO and NC, makes these switches ideal for any detection need.

Specifications:

• Actuation Force: 100gF maximum • Contact Rating: 100mA@12VDC • Operating Temperature: -20°C ~ 60°C

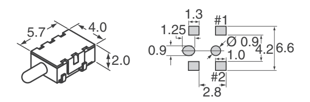

Description	Digi-Key Part No.	1	Price Each 25	100	C&K Part No.
SPST-NO, Pushbutton, Right Angle	401-1737-ND	1.05	.84	.67	SDS001
SPST-NC, Pushbutton, Right Angle	401-1738-ND	1.05	.84	.67	SDS002

KSU Series
Micro Mini Detector Switch

The KSU is a top actuated multi contact detector switch without tactile feedback and with normally open contacts.

Specifications:

• Circuit: SPST-NO • Minimum/Maximum Voltage: 20mV ~ 32V • Minimum/Maximum Current: .01mA ~ 10mA • Life Expectancy: 100,000 operations • Operating Force: 180gF • Contacts: Gold • Operating Temperature: -40°C ~ 125°C

7 x 3.5mm, Metal Actuator

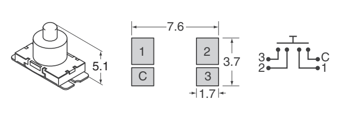

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	T & R Pricing 1,000	C&K Part No.
Gull Wing Short Travel	CKN9204CT-ND	1.46	1.35	1.24	CKN9204TR-ND	808.00	KSU213 ST LFG
Gull Wing	401-1598-1-ND	.94	.87	.80	401-1598-2-ND	522.00	KSU213WLFG

HDT Series
Micro Mini SMT Detect Switch

The HDT Series is low profile, sitting just 3.35mm off PCB. With its low actuation force, it can be used with medical devices, computers and consumer electronics.

Specifications:

• Contact Rating: 1mA@5VDC • Operating Temperature: -15°C ~ 70°C

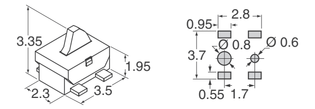

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 2,450	C&K Part No.
Low Profile, SPST-NO, 30gF	401-1733-1-ND	1.34	1.24	1.14	743.40/M	HDT0001

***** For Tape and Reel part number, change 1-ND to 2-ND.

MDS Series
Micro Snap-Acting Detect Switches

Snap-acting tactile feel, small package size, with 2.9mm total travel **Applications:** Medical devices, consumer electronics, detect the presence of a mechanical device **Specifications:** • Contacts: 300mA@6VDC • Life Expectancy: 10,000 operations • Operating Temperature: -25°C ~ 70°C

Fig. 1

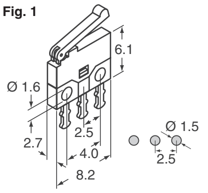

Fig. 2

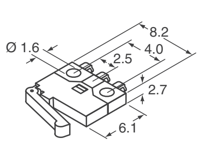

Fig. 3

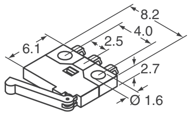

Fig.	Description	Digi-Key Part No.	1	Price Each 25	100	C&K Part No.
1	Vertical SPDT	401-1739-ND	1.71	1.38	1.09	MDS001
	Vertical SPDT	CKN9408-ND ***NEW!***	1.71	1.38	1.09	MDS001C
	Vertical SPDT Extended Terminals	CKN9412-ND ***NEW!***	1.71	1.38	1.09	MDS007C
2	Right Angle, Left Bend SPDT	401-1740-ND	2.24	1.80	1.43	MDS002
	Right Angle, Left Bend SPDT	CKN9413-ND ***NEW!***	2.24	1.80	1.43	MDS002C
	Right Angle, Left Bend SPDT Extended Terminals	CKN9411-ND ***NEW!***	2.24	1.80	1.43	MDS006C
3	Right Angle, Right Bend SPDT	CKN9409-ND ***NEW!***	2.24	1.80	1.43	MDS003C
	Right Angle, Right Bend SPDT Extended Terminals	CKN9410-ND ***NEW!***	2.24	1.80	1.43	MDS005C

ZM Series
Subminiature Snap-Acting Detect Switches

Features: Reliable snap-acting mechanism in a compact size **Applications:** PCB detection switch, communication devices, testing equipment, security/alarm systems **Specifications:** • Contact Rating: 3A@125VAC • Operating Temperature: -25°C ~ 85°C • Operating Force: 150gF • Contact Material: Silver, gold plated • Life Cycle: 15,000

ZMCJF7P0T

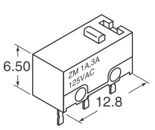

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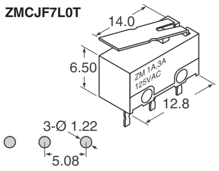

Right Footed

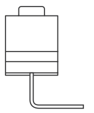

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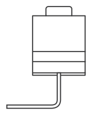

Description	Digi-Key Part No.	1	Price Each 25	100	C&K Part No.
Vertical, Thru-Hole, Button Actuator	401-1742-ND	1.74	1.40	1.11	ZMCJF7P0T
Left-footed, Button Actuator	401-1743-ND	2.25	1.81	1.43	ZMCJF7P0L
Right-footed, Button Actuator	401-1744-ND	2.25	1.81	1.43	ZMCJF7P0R
Vertical, Thru-Hole, Leaf Actuator	401-1745-ND	1.82	1.46	1.16	ZMCJF7L0T
Left-footed, Leaf Actuator	401-1746-ND	2.33	1.87	1.48	ZMCJF7L0L
Right-footed, Leaf Actuator	401-1747-ND	2.33	1.87	1.48	ZMCJF7L0R

E-SWITCH™

Detector Switches

Fig.	Description	Rating	Operating Force	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	SMT Right Angle with Boss	12VDC, 50mA	180gf	EG2525CT-ND†	1.10	.89	.80	901AGQF180
	SMT Right Angle with Boss	12VDC, 50mA	180gf	EG2525TR-ND‡	796.00/2,000			
2	SMT Right Angle without Boss	12VDC, 100mA	50gf	EG2622CT-ND†	2.01	1.61	1.45	900AGQ
	SMT Right Angle without Boss	12VDC, 100mA	50gf	EG2622TR-ND†	1024.10/1,900			
	SMT Right Angle with Boss	12VDC, 100mA	50gf	EG2659CT-ND†	1.48	1.19	1.07	900BGQ
	SMT Right Angle with Boss	12VDC, 100mA	50gf	EG2659TR-ND†	1024.10/1,900			
3	Vertical Mount, PCB	30VDC, 100mA	36gf	EG2660-ND	.99	.80	.72	TD1104
4	Horizontal Mount, PCB	30VDC, 100mA	36gf	EG2661-ND	.89	.72	.64	TD1105A
5	Horizontal Mount, PCB	30VDC, 100mA	36gf	EG2662-ND	.89	.72	.64	TD1105B

† Cut Tape ‡ Tape and Reel

Fig. 1

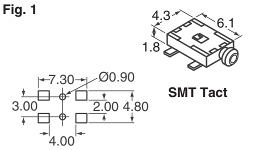

SMT Tact

Fig. 2

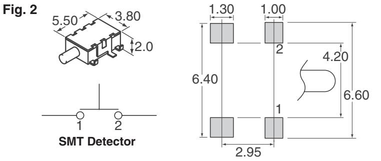

SMT Detector

Fig. 3

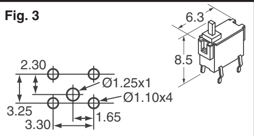

Fig. 4

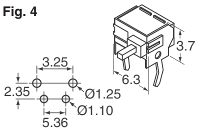

Fig. 5

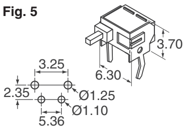

OMRON Momentary Tact Switches

CHARACTERISTICS: • **Switching Capacity:** 50mA, 24VDC (resistive load) • **Contact Resistance:** 100mΩ maximum • **Bounce Time:** 5ms maximum • **Vibration:** Malfunction durability: 10 ~ 55Hz, 1.5mm double amplitude • **Shock:** Destruction durability: 1,000m/s^2 (approximate 100G); Malfunction durability: 100m/s^2 (approximate 10G) • **Ambient Temperature:** Operating: -25°C ~ 70°C • **Service Life:** • ***B3F-1 Series, B3F-3 Series*** — Mechanical/Electrical: 1 x 10^6 (0.3 x 10^6) operations minimum • ***B3F-4 Series*** — Mechanical/Electrical: 3 x 10^6 (0.3 x 10^6) operations minimum • ***B3S-1 Series*** — Mechanical/Electrical: General-purpose type: 500,000 operations minimum; High-load type: 300,000 operations minimum • ***B3W-1 Series*** — Mechanical/Electrical: General-purpose type: 1,000,000 operations minimum; High-load type: 300,000 operations minimum • ***B3W-4 Series*** — Mechanical/Electrical: General-purpose type: 3,000,000 operations minimum; High-load type: 1,000,000 operations minimum

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Pricing 1	25	50	100	Omron Part No.
	6mm (not washable)							
1	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	4.3	SW400-ND	.20	4.50	8.00	14.40	B3F-1000
	Tact Switch, Low Force, Flat Actuator with Ground Terminal — 100gf	4.3	SW960-ND	.31	6.92	12.30	22.14	B3F-1100
	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 150gf	4.3	SW401-ND	.23	5.06	9.00	16.20	B3F-1002
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 150gf	4.3	SW961-ND	.31	6.92	12.30	22.14	B3F-1102
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 260gf	4.3	SW793-ND	.28	6.38	11.34	20.41	B3F-1005
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 500gf	4.3	SW950-ND	.59	13.33	23.70	42.66	B3F-1006
	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	5.0	SW402-ND	.23	5.06	9.00	16.20	B3F-1020
	Tact Switch, Low Force, Flat Actuator with Ground Terminal — 100gf	5.0	SW962-ND	.31	6.92	12.30	22.14	B3F-1120
	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 150gf	5.0	SW403-ND	.23	5.06	9.00	16.20	B3F-1022
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 150gf	5.0	SW849-ND	.31	6.90	12.27	22.09	B3F-1122
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 260gf	5.0	SW794-ND	.30	6.81	12.10	21.78	B3F-1025
	Tact Switch, High Force, Flat Actuator with Ground Terminal — 260gf	5.0	SW963-ND	.37	8.33	14.80	26.64	B3F-1125
	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	9.5	SW406-ND	.25	5.63	10.00	18.00	B3F-1070
2	Tact Switch, Low Force, Projected Actuator without Ground Terminal — 100gf	7.3	SW404-ND	.23	5.06	9.00	16.20	B3F-1050
	Tact Switch, Low Force, Projected Actuator with Ground Terminal — 100gf	7.3	SW964-ND	.31	6.92	12.30	22.14	B3F-1150
	Tact Switch, Medium Force, Projected Actuator without Ground Terminal — 150gf	7.3	SW405-ND	.23	5.06	9.00	16.20	B3F-1052
	Tact Switch, Medium Force, Projected Actuator with Ground Terminal — 150gf	7.3	SW850-ND	.31	6.90	12.27	22.09	B3F-1152
	Tact Switch, High Force, Projected Actuator without Ground Terminal — 260gf	7.3	SW795-ND	.47	10.61	18.86	33.95	B3F-1055
3	Tact Switch, Low Force, Right Angle, Flat Actuator — 100gf	3.85	SW407-ND	.30	6.75	12.00	21.60	B3F-3120
	Tact Switch, Medium Force, Right Angle, Flat Actuator — 150gf	3.85	SW408-ND	.30	6.75	12.00	21.60	B3F-3122
	Tact Switch, High Force, Right Angle, Flat Actuator — 260gf	3.85	SW851-ND	.30	6.75	12.00	21.60	B3F-3125
4A	Tact Switch, Right Angle, SMT without Ground	—	SW1022CT-ND†	.83	18.73	33.29	59.92	B3U-3000P
	Tact Switch, Right Angle, SMT without Ground	—	SW1022TR-ND‡			1664.00/4,000		B3U-3000P
4B	Tact Switch, Right Angle, SMT with Ground	—	SW1023CT-ND†	.83	18.73	33.29	59.92	B3U-3100P
	Tact Switch, Right Angle, SMT with Ground	—	SW1023TR-ND‡			1664.00/4,000		B3U-3100P
5	Tact Switch, Low Force, Right Angle, Projected Actuator — 100gf	6.15	SW409-ND	.30	6.75	12.00	21.60	B3F-3150
	Tact Switch, Medium Force, Right Angle, Projected Actuator — 150gf	6.15	SW410-ND	.30	6.75	12.00	21.60	B3F-3152
	6mm Gold Plated Contacts (not washable)							
1	Tact Switch, Flat Actuator without Ground Terminal — 150gf	4.3	SW787-ND	2.61	58.78	104.50	188.10	B3F-1002-G
	Tact Switch, Flat Actuator with Ground Terminal — 150gf	4.3	SW789-ND	2.75	61.86	109.97	197.95	B3F-1102-G
	Tact Switch, Flat Actuator without Ground Terminal — 150gf	5.0	SW788-ND	2.61	58.78	104.50	188.10	B3F-1022-G
	Tact Switch, Flat Actuator with Ground Terminal — 150gf	5.0	SW790-ND	2.75	61.86	109.97	197.95	B3F-1122-G
	6mm Process Sealed (not water washable)							
6	Tact Switch, SMT Flat Actuator without Ground Terminal — 160gf	4.3	SW415-ND	.45	10.13	18.00	32.40	B3S-1000
	Tact Switch, SMT Flat Actuator without Ground Terminal — 230gf	4.3	SW416-ND	.45	10.13	18.00	32.40	B3S-1002BYSOMZ
	Tact Switch, SMT Flat Actuator with Ground Terminal — 160gf	4.3	SW971-ND	.61	13.61	24.20	43.56	B3S-1100
	Tact Switch, SMT Flat Actuator with Ground Terminal — 230gf	4.3	SW972-ND	.61	13.61	24.20	43.56	B3S-1102
7	Tact Switch Flat Actuator without Ground Terminal — 160gf	4.3	SW417-ND	.35	7.88	14.00	25.20	B3W-1000BYOMZ
	Tact Switch Flat Actuator with Ground Terminal — 160gf	4.3	SW853-ND	.50	11.20	19.91	35.84	B3W-1100
	Tact Switch Flat Actuator without Ground Terminal — 230gf	4.3	SW418-ND	.35	7.88	14.00	25.20	B3W-1002BYOMZ
	Tact Switch Flat Actuator with Ground Terminal — 230gf	4.3	SW973-ND	.50	11.19	19.90	35.82	B3W-1102
8	Tact Switch Projected Actuator without Ground Terminal — 160gf	7.3	SW419-ND	.35	7.88	14.00	25.20	B3W-1050BYOMZ
	Tact Switch Projected Actuator with Ground Terminal — 160gf	7.3	SW974-ND	.50	11.19	19.90	35.82	B3W-1150
	Tact Switch Projected Actuator without Ground Terminal — 230gf	7.3	SW420-ND	.35	7.88	14.00	25.20	B3W-1052BYOMZ
	Tact Switch Projected Actuator with Ground Terminal — 230gf	7.3	SW975-ND	.50	11.19	19.90	35.82	B3W-1152
9A	Tact Switch Contact Type without Ground Terminal — 150gf	—	SW1020CT-ND†	.83	18.73	33.29	59.92	B3U-1000P
	Tact Switch Contact Type without Ground Terminal — 150gf	—	SW1020TR-ND‡			1456.00/3,500		B3U-1000P
9B	Tact Switch Contact Type with Ground Terminal — 150gf	—	SW1021CT-ND†	.83	18.73	33.29	59.92	B3U-1100P
	Tact Switch Contact Type with Ground Terminal — 150gf	—	SW1021TR-ND‡			1456.00/3,500		B3U-1100P
	12mm (not washable)							
10	Tact Switch Standard, Flat Actuator without Ground Terminal — 130gf	4.3	SW411-ND	.30	6.75	12.00	21.60	B3F-4000
	Tact Switch Standard, Flat Actuator with Ground Terminal — 130gf	4.3	SW965-ND	.51	11.42	20.30	36.54	B3F-4100
	Tact Switch Standard, Flat Actuator without Ground Terminal — 260gf	4.3	SW412-ND	.30	6.75	12.00	21.60	B3F-4005
	Tact Switch Standard, Flat Actuator with Ground Terminal — 260gf	4.3	SW966-ND	.51	11.42	20.30	36.54	B3F-4105
11	Tact Switch Standard, Projected Actuator without Ground Terminal — 130gf	7.3	SW413-ND	.30	6.75	12.00	21.60	B3F-4050
	Tact Switch Standard, Projected Actuator with Ground Terminal — 130gf	7.3	SW835-ND	.51	11.44	20.33	36.59	B3F-4150
	Tact Switch Standard, Projected Actuator without Ground Terminal — 260gf	7.3	SW414-ND	.30	6.75	12.00	21.60	B3F-4055
	Tact Switch Standard, Projected Actuator with Ground Terminal — 260gf	7.3	SW967-ND	.51	11.42	20.30	36.54	B3F-4155
6	Tact Switch, Long Service Life, Flat Actuator without Ground Terminal — 130gf	4.3	SW800-ND	.45	10.23	18.19	32.74	B3F-5000
	Tact Switch, Long Service Life, Flat Actuator with Ground Terminal — 130gf	4.3	SW852-ND	.45	10.23	18.19	32.74	B3F-5100
11	Tact Switch, Long Service Life, Projected Actuator w/out Ground Terminal — 130gf	7.3	SW801-ND	.45	10.23	18.19	32.74	B3F-5050
	Tact Switch, Long Service Life, Projected Actuator with Ground Terminal — 130gf	7.3	SW970-ND	.61	13.78	24.50	44.10	B3F-5150
10	Tact Switch, Gold Plated Contact, Flat Actuator without Ground Terminal — 130gf	4.3	SW968-ND	2.46	55.24	98.20	176.76	B3F-5001
11	Tact Switch, Gold Plated Contact, Projected Actuator w/out Ground Term. — 130gf	7.3	SW969-ND	2.46	55.24	98.20	176.76	B3F-5051
	12mm Process Sealed (not water washable)							
12	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 200gf	4.3	SW421-ND	.43	9.56	17.00	30.60	B3W-4000BYOMZ
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 200gf	4.3	SW854-ND	.59	13.31	23.67	42.61	B3W-4100
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 350gf	4.3	SW976-ND	.59	13.33	23.70	42.66	B3W-4005
	Tact Switch, High Force, Flat Actuator with Ground Terminal — 350gf	4.3	SW977-ND	.59	13.33	23.70	42.66	B3W-4105
11	Tact Switch, Medium Force, Projected Actuator without Ground Terminal — 200gf	7.3	SW422-ND	.43	9.56	17.00	30.60	B3W-4050BYOMZ
	Tact Switch, Medium Force, Projected Actuator with Ground Terminal — 200gf	7.3	SW839-ND	.59	13.31	23.67	42.61	B3W-4150
	Tact Switch, High Force, Projected Actuator without Ground Terminal — 350gf	7.3	SW838-ND	.53	11.87	21.10	37.98	B3W-4055BYOMZ
	Tact Switch, High Force, Flat Actuator with Ground Terminal — 350gf	7.3	SW856-ND	.59	13.31	23.67	42.61	B3W-4155
	B3F and B3W Key Caps for Projected Actuator							
13	Key Cap 4 x 4mm Light Grey/Tan, Fits 6mm Projected Actuator Types	4.0	SW450-ND	.43	5.25	8.84	15.81	B32-1000
	Key Cap 4 x 4mm Black, Fits 6mm Projected Actuator Types	4.0	SW451-ND	.43	5.25	8.84	15.81	B32-1010
	Key Cap 4 x 4mm Orange, Fits 6mm Projected Actuator Types	4.0	SW845-ND	.18	3.94	7.00	12.60	B32-1020
	Key Cap 4 x 4mm Yellow, Fits 6mm Projected Actuator Types	4.0	SW249-ND	.43	5.25	8.84	15.81	B32-1030
	Key Cap 4 x 4mm Blue, Fits 6mm Projected Actuator Types	4.0	SW250-ND	.43	5.25	8.84	15.81	B32-1040
	Key Cap 4 x 4mm White, Fits 6mm Projected Actuator Types	4.0	SW251-ND	.43	5.25	8.84	15.81	B32-1060
	Key Cap 4 x 4mm Light Green, Fits 6mm Projected Actuator Types	4.0	SW953-ND	.26	5.74	10.20	18.36	B32-1070
	Key Cap 4 x 4mm Red, Fits 6mm Projected Actuator Types	4.0	SW252-ND	.43	5.25	8.84	14.37	B32-1080
—	Key Cap 9 x 9mm Light Grey, Fits 6mm Projected Actuator Types	9.0	SW891-ND	.29	6.41	11.40	20.52	B32-1400
14	Key Cap 9 x 9mm Light Grey/Tan, Fits 12mm Projected Actuator Types	9.0	SW452-ND	.43	5.25	8.84	15.81	B32-1200
	Key Cap 9 x 9mm Black, Fits 12mm Projected Actuator Types	9.0	SW453-ND	.43	5.25	8.84	15.81	B32-1210
	Key Cap 9 x 9mm Orange, Fits 12mm Projected Actuator Types	9.0	SW954-ND	.26	5.74	10.20	18.36	B32-1220
	Key Cap 9 x 9mm Yellow, Fits 12mm Projected Actuator Types	9.0	SW253-ND	.43	5.25	8.84	15.81	B32-1230
	Key Cap 9 x 9mm Blue, Fits 12mm Projected Actuator Types	9.0	SW254-ND	.43	5.25	8.84	15.81	B32-1240

‡ Tape and Reel † Cut Tape

(Continued)

Fig. 1

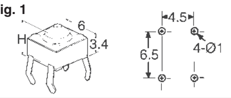

Fig. 2

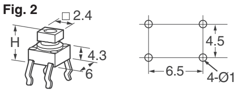

Fig. 3

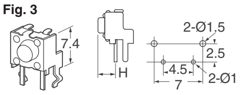

Fig. 4

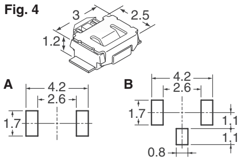

Fig. 5

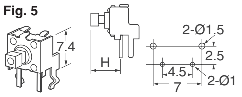

Fig. 6

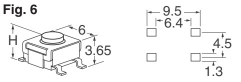

Fig. 7

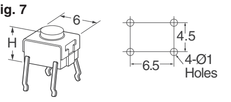

Fig. 8

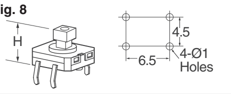

Fig. 9

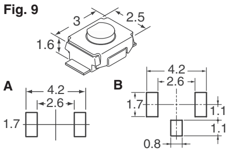

Fig. 10

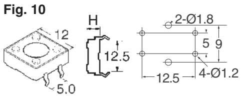

Fig. 11

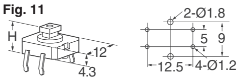

Fig. 12

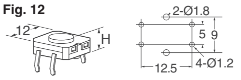

Fig. 13

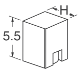

Fig. 14

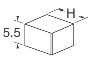

Fig. 15

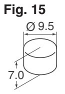

Fig. 16

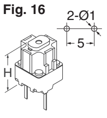

Fig. 17

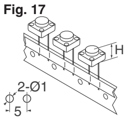

Fig. 18

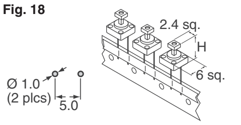

OMRON Momentary Tact Switches *(Cont.)*

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Pricing 1	25	50	100	Omron Part No.
14	Key Cap 9 x 9mm Green, Fits 12mm Projected Actuator Types	9.0	SW846-ND	.18	3.94	7.00	12.60	B32-1250
	Key Cap 9 x 9mm White, Fits 12mm Projected Actuator Types	9.0	SW255-ND	.43	5.25	8.84	15.81	B32-1260
	Key Cap 9 x 9mm Light Green, Fits 12mm Projected Actuator Types	9.0	SW955-ND	.26	5.74	10.20	18.36	B32-1270
	Key Cap 9 x 9mm Red, Fits 12mm Projected Actuator Types	9.0	SW256-ND	.43	5.25	8.84	15.81	B32-1280
	Key Cap 12 x 12mm Light Grey/Tan, Fits 12mm Projected Actuator Types	12.0	SW454-ND	.43	5.25	8.84	15.81	B32-1300
	Key Cap 12 x 12mm Black, Fits 12mm Projected Actuator Types	12.0	SW455-ND	.43	5.25	8.84	15.81	B32-1310
	Key Cap 12 x 12mm Orange, Fits 12mm Projected Actuator Types	12.0	SW956-ND	.26	5.74	10.20	18.36	B32-1320
	Key Cap 12 x 12mm Yellow, Fits 12mm Projected Actuator Types	12.0	SW257-ND	.43	5.25	8.84	15.81	B32-1330
	Key Cap 12 x 12mm Blue, Fits 12mm Projected Actuator Types	12.0	SW258-ND	.43	5.25	8.84	15.81	B32-1340
	Key Cap 12 x 12mm Green, Fits 12mm Projected Actuator Types	12.0	SW957-ND	.26	5.74	10.20	18.36	B32-1350
	Key Cap 12 x 12mm White, Fits 12mm Projected Actuator Types	12.0	SW259-ND	.43	5.25	8.84	15.81	B32-1360
	Key Cap 12 x 12mm Light Green, Fits 12mm Projected Actuator Types	12.0	SW958-ND	.26	5.74	10.20	18.36	B32-1370
	Key Cap 12 x 12mm Red, Fits 12mm Projected Actuator Types	12.0	SW260-ND	.43	5.25	8.84	15.81	B32-1380
15	Key Cap 9.5mm Diameter, Black, Fits 12mm Projected Actuator Type	—	SW847-ND	.32	7.19	12.78	23.00	B32-1610
	Key Cap 9.5mm Diameter, Orange, Fits 12mm Projected Actuator Type	—	SW959-ND	.36	8.04	14.30	25.74	B32-1620
	Key Cap 9.5mm Diameter, Yellow, Fits 12mm Projected Actuator Type	—	SW848-ND	.32	7.19	12.78	23.00	B32-1630
	6mm Long Stroke Tact Switch							
16	Tact Switch with Long Stroke and Positive Click — 70gf	7.3	SW426-ND	.63	14.06	25.00	45.00	B3M-6009

‡ Tape and Reel † Cut Tape

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Pricing 1	25	50	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Omron Part No.
	6mm Auto Placement; Flat Actuator (not washable)									
17	Tact Switch Auto-Placement 6mm Square — 100gf	4.3	SW263CT-ND†	.30	6.82	12.37	SW263TB-NDΔ	1,000	125.00	B3F-6000BYOMZ
	Tact Switch Auto-Placement 6mm Square — 150gf	4.3	SW797-ND	.33	7.31	13.00	—	—	—	B3F-6002BYOMZ
	Tact Switch Auto-Placement 6mm Square — 100gf	5.0	SW796-ND	.35	7.82	13.90	—	—	—	B3F-6050BYOMZ
	Tact Switch Auto-Placement 6mm Square — 150gf	5.0	SW264CT-ND†	.32	7.22	13.11	SW264TB-NDΔ	1,000	137.50	B3F-6022BYOMZ
	6mm Auto Placement; Projected Actuator (not washable)									
18	Tact Switch Auto-Placement 6mm Square — 100gf	7.3	SW798-ND	.39	8.81	15.66	—	—	—	B3F-6050
	Tact Switch Auto-Placement 6mm Square — 150gf	7.3	SW799-ND	.39	8.81	15.66	—	—	—	B3F-6052BYOMZ
19	Tact Switch Auto-Placement, Water Tight, Dust Sealed	—	SW425CT-ND†	.51	11.48	20.83	SW425TB-NDΔ	1,000	212.50	B3WN-6002
	6mm Process Sealed (not water washable)									
20	SMT Flat Actuator without Ground Terminal — 160gf	3.1	SW261CT-ND†	.76	17.08	30.99	SW261TR-ND	3,000	325.00/M	B3SN-3012P
	SMT Flat Actuator with Ground Terminal — 160gf	3.1	SW262CT-ND†	.76	17.08	30.99	SW262TR-ND	3,000	325.00/M	B3SN-3112P
21	SMT Tact Switch 6mm Square (snap-action) — 100gf	3.1	SW423CT-ND†	.45	10.13	18.38	SW423TR-ND	3,000	225.00/M	B3FS-1000P
	SMT Tact Switch 6mm Square — 160gf	4.3	SW836CT-ND†	.55	12.38	22.00	SW836TR-ND	1,000	297.00	B3S-1000P
	SMT Tact Switch 6mm Square (snap-action) — 150gf	3.1	SW424CT-ND†	.45	10.13	18.38	SW424TR-ND	3,000	225.00/M	B3FS-1002P
	SMT Tact Switch 6mm Square — 230gf	4.3	SW837CT-ND†	.55	12.38	22.00	SW837TR-ND	1,000	297.00	B3S-1002P
	SMT Tact Switch 6mm Square — 160gf	4.3	SW844CT-ND†	.71	16.06	29.14	SW844TR-ND	1,000	297.38	B3S-1100P
	6mm Process Sealed; Projected Actuator (not water washable)									
22	SPST Tact Switch 6mm Square (snap-action) — 100gf	7.3	SW791-ND	.66	14.77	26.26	—	—	—	B3FS-1050
	SPST Tact Switch 6mm Square (snap-action) — 150gf	7.3	SW792-ND	.66	14.77	26.26	—	—	—	B3FS-1052
	Ultra-low Profile Dome									
23	Dome Key, Stainless Steel, 4mm diameter	—	SW978-ND	.27	6.13	10.90	—	—	—	B3D-4112
	Dome Key, Stainless Steel, 5mm diameter	—	SW979-ND	.27	6.13	10.90	—	—	—	B3D-5112
24	Dome Array Sheet, Stainless Steel, 5mm diameter	—	SW1018-ND	2.89	65.08	115.70	—	—	—	B3DA-0000-A
	Dome Array Sheet, Stainless Steel, 4mm diameter	—	SW1019-ND	2.89	65.08	115.70	—	—	—	B3DA-0010-A
	Jog Switch – 4 Quadrant									
25	Jog Switch, 4 Quadrant Tact Switch with Encoder	—	SW1032-ND	14.36	323.04	574.30	—	—	—	B5V-1422-D01-L4
	Jog Switch, 4 Quad. Tact Switch with Encoder, Led Illum.	—	SW1033-ND	13.64	306.82	545.45	—	—	—	B5V-1422-D01-L0

Δ Tape and Box † Cut Tape

Fig. 19 — Sealed

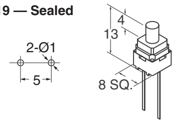

Fig. 20

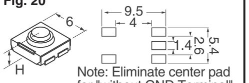

Note: Eliminate center pad for "without GND Terminal"

Fig. 21

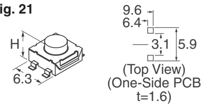

Fig. 22

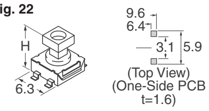

Fig. 23

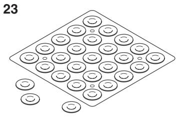

Fig. 24 *Note: Sold in sheets of 18 domes*

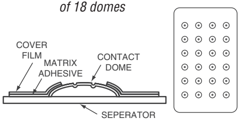

Fig. 25

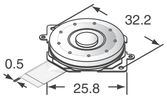

NEW! Illuminated Tact Switches

Features: • Bright and uniform illumination • Uniquely constructed diffusion panel • Snap-action contact construction for a positive click action • High contact reliability • Sealed switch part provides high contact reliability against dust

Specifications: • **Switching Capacity:** 50mA, 24VDC (resistive load) • **Contact Resistance:** 100mΩ maximum • **Bounce Time:** 5ms maximum • **Vibration Resistance:** Malfunction: 10 ~ 55 Hz, 1.5mm double amplitude • **Shock Resistance:** Destruction: 1,000 m/s² (approximately 100G) maximum, Malfunction: 100 m/s² (approximately 10G) maximum • **Ambient Operating Temperature:** -25°C ~ 70°C • **Service Life:** • Standard force 1.57 N: 1,000,000 operations minimum • **Contact Configuration:** SPST-NO

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Single Red LED, Red Cap	SW1034-ND	2.38	2.14	1.90	B3W-9000-R1R
Single Green LED, Green Cap	SW1035-ND	2.38	2.14	1.90	B3W-9000-G1G
Single Yellow LED, Yellow Cap	SW1036-ND	2.38	2.14	1.90	B3W-9000-Y1Y
Single Blue LED, Blue Cap	SW1037-ND	3.83	3.45	3.06	B3W-9000-B1B
Dual Red-Green LED, Milky white Cap	SW1038-ND	3.18	2.86	2.54	B3W-9000-RG2N
Single Blue LED, Milky white Cap	SW1039-ND	3.83	3.45	3.06	B3W-9000-B1N
Single Red LED, Milky white Cap	SW1040-ND	2.38	2.14	1.90	B3W-9000-R1N
Single Yellow LED, Milky white Cap	SW1041-ND	2.38	2.14	1.90	B3W-9000-Y1N
Single Green LED, Milky white Cap	SW1042-ND	2.38	2.14	1.90	B3W-9000-G1N

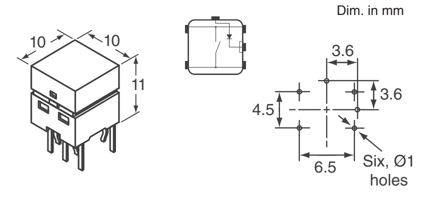

NEW! D3SH Miniature Detection Switches

Omron's ultra small size and ultra low profile detector switch is one of the smallest designs in the industry. Offered in both left actuation and right actuation versions in both standard lever and extended-long lever types. Although designed for camera door detection originally, the compact size of this switch makes it an ideal detector switch for portable equipment.

Specifications:
• **Contact Resistance:** 3Ω maximum • **Vibration Resistance:** Malfunction: 10 ~ 55 Hz, 1.5mm double amplitude • **Shock Resistance:** Destruction: 1,000 m/s² (approximately 100G) maximum, Malfunction: 300 m/s² (approximately 30G) maximum • Switch Function: OFF-MOM
• **Ambient Operating Temperature:** -25°C ~ 85°C

Description	Digi-Key Part No.	Price Each 1	25	50	Digi-Key Part No.	T & R Pricing 1,000	Omron Part No.
Standard Lever, Right with Boss	SW1043CT-ND	1.23	1.11	.98	SW1043TR-ND	662.00	D3SH-A1R
Standard Lever, Right without Boss	SW1044CT-ND	1.23	1.11	.98	SW1044TR-ND	662.00	D3SH-A0R
Standard Lever, Left with Boss	SW1045CT-ND	1.23	1.11	.98	SW1045TR-ND	662.00	D3SH-A1L
Standard Lever, Left without Boss	SW1048CT-ND	1.23	1.11	.98	SW1048TR-ND	662.00	D3SH-A0L
Long Lever, Right with Boss	SW1046CT-ND	1.23	1.11	.98	SW1046TR-ND	662.00	D3SH-A1R1
Long Lever, Right without Boss	SW1047CT-ND	1.23	1.11	.98	SW1047TR-ND	662.00	D3SH-A0R1

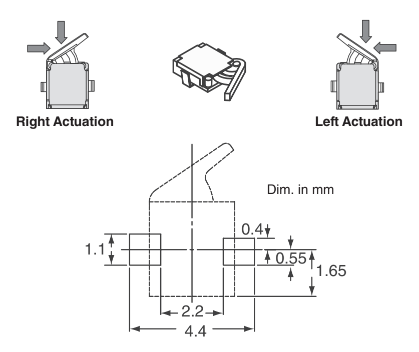

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Momentary Tact Switches

Fig. 1

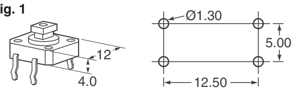

Fig. 2

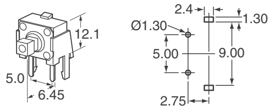

Fig. 3

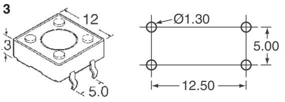

Fig. 4

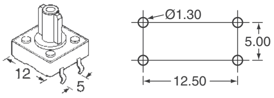

Fig. 5

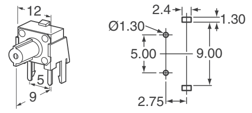

Fig. 6

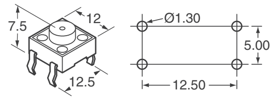

Fig. 7

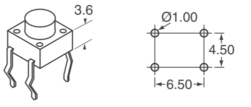

Fig. 8

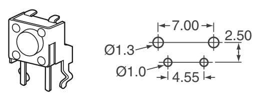

Fig. 9

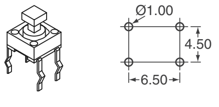

Fig. 10

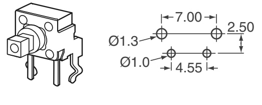

Fig. 11 ***NEW!***

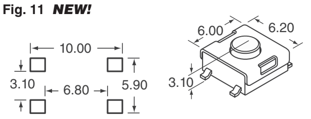

Fig. 12

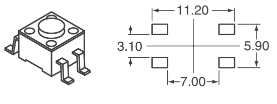

Fig. 13

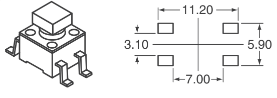

Fig. 14

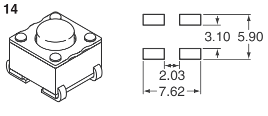

Fig. 15

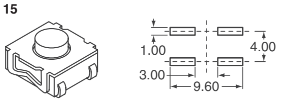

Fig. 16

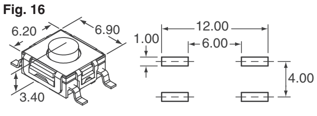

Fig. 17

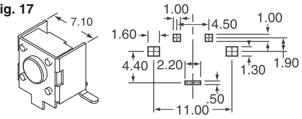

Fig. 18 ***NEW!***

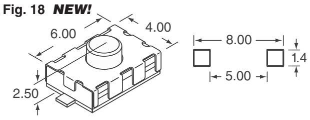

Fig. 19 ***NEW!***

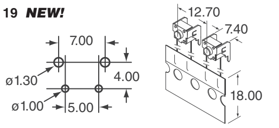

Fig. 20

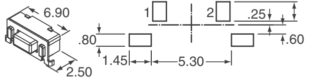

Fig. 21

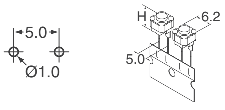

Fig. 22 ***NEW!***

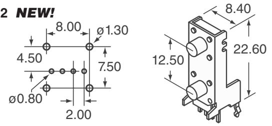

Fig. 23 ***NEW!***

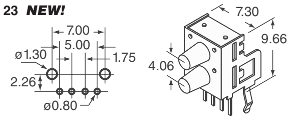

Fig. 24

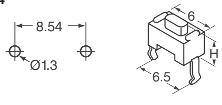

Fig. 25 ***NEW!***

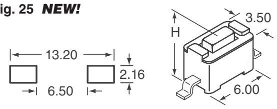

Fig. 26 ***NEW!***

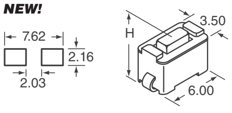

Fig. 27

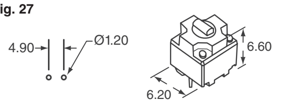

Fig. 28

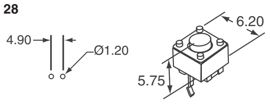

Fig. 29

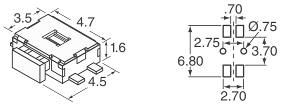

Fig. 30

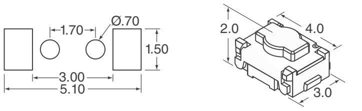

Fig. 31

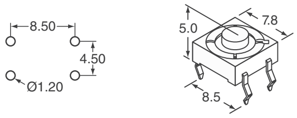

Fig. 32

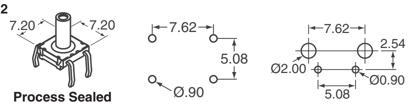

Process Sealed

Fig. 33

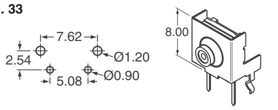

Fig. 34

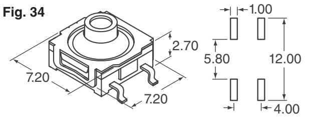

Fig. 35

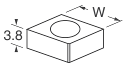

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
	Tact Switches					
1	12mm Square Extended Actuator, Length = 7.3	EG1821-ND	.56	.45	.41	TL1100F160Q
2	Right Angle 12mm Square Ext. Act., Length = 7.3	EG1822-ND	.87	.70	.63	TL1100CF160Q
3	12mm Square Flat Actuator	EG1023-ND	.56	.45	.41	TL1100DF160Q
4	12mm Square Post Actuator, Length =12.0	EG1024-ND	.51	.42	.37	TL1100FF160Q
5	12mm Square R/A Post Actuator, Length = 9.0	EG1025-ND	.80	.64	.58	TL1100GF160Q
6	12mm Square Long Flat Actuator	EG1826-ND	.56	.45	.41	TL1100EF160Q
7	6mm Square 4.3mm Actuator 100gf	EG2494-ND	.23	.18	.17	TL1105F100Q
	6mm Square 4.3mm Actuator 160gf	EG1827-ND	.23	.18	.17	TL1105F160Q
	6mm Square 4.3mm Actuator 160gf with ESD	EG2490-ND	.35	.28	.25	TLE1105F160Q
	6mm Square Gold Plating 4.3mm Actuator 160gf	EG2492-ND	1.17	.94	.84	TL1105F160R
	6mm Square 4.3mm Actuator 250gf	EG1828-ND	.23	.18	.17	TL1105F250Q
	6mm Square 5mm Actuator 100gf	EG2495-ND	.33	.27	.24	TL1105AF100Q
	6mm Square 5mm Actuator 160gf	EG1829-ND	.33	.27	.24	TL1105AF160Q
	6mm Square 5mm Actuator 160gf with ESD	EG2491-ND	.35	.28	.25	TLE1105AF160Q
	6mm Square Gold Plating 5mm Actuator 160gf	EG2493-ND	1.17	.94	.84	TL1105AF160R
	6mm Square 5mm Actuator 250gf	EG1830-ND	.33	.27	.24	TL1105AF250Q
	6mm Square 7.0mm Actuator 160gf	EG4369-ND	.18	.17	.14	TL1105FF160Q
	6mm Square 7.3mm Actuator 100gf	EG2496-ND	.23	.18	.17	TL1105EF100Q
	6mm Square 7.3mm Actuator 160gf	EG1831-ND	.23	.18	.17	TL1105EF160Q
	6mm Square 7.3mm Actuator 250gf	EG1832-ND	.23	.18	.17	TL1105EF250Q
	6mm Square 8.5mm Actuator 160gf	EG4371-ND	.18	.17	.14	TL1105PF160Q
	6mm Square 9.5mm Actuator 100gf	EG2497-ND	.23	.18	.17	TL1105BF100Q
	6mm Square 9.5mm Actuator 160gf	EG1833-ND	.35	.28	.25	TL1105BF160Q
	6mm Square 9.5mm Actuator 250gf	EG1834-ND	.23	.18	.17	TL1105BF250Q
	6mm Square 13mm Actuator 100gf	EG2498-ND	.23	.18	.17	TL1105DF100Q
	6mm Square 13mm Actuator 160gf	EG1865-ND	.30	.25	.22	TL1105DF160Q
	6mm Square Gold Plating 13mm Actuator 160gf	EG4565-ND	1.17	.94	.84	TL1105DF160R
	6mm Square 13mm Actuator 250gf	EG1866-ND	.23	.18	.17	TL1105DF250Q
7	6mm Square 17mm Actuator 100gf	EG2504-ND	.37	.30	.27	TL1105LF100Q
	6mm Square 17mm Actuator 160gf	EG2505-ND	.37	.30	.27	TL1105LF160Q
	6mm Square 17mm Actuator 250gf	EG2506-ND	.37	.30	.27	TL1105LF250Q
8	6mm Square Right Angle 3.15mm Actuator 100gf	EG2499-ND	.42	.34	.31	TL1105WF100Q
	6mm Square Right Angle 3.15mm Actuator 160gf	EG1835-ND	.42	.34	.31	TL1105WF160Q
	6mm Square Right Angle 3.15mm Actuator 250gf	EG1836-ND	.42	.34	.31	TL1105WF250Q
	6mm Square Right Angle 3.85mm Actuator 100gf	EG2507-ND	.42	.34	.31	TL1105VF100Q
	6mm Square Right Angle 3.85mm Actuator 160gf	EG2508-ND	.42	.34	.31	TL1105VF160Q
	6mm Square Right Angle 3.85mm Actuator 250gf	EG2509-ND	.42	.34	.31	TL1105VF250Q
	6mm Square Right Angle 5.85mm Actuator 100gf	EG4559-ND	.34	.31	.26	TL1105XF100Q
	6mm Square Right Angle 5.85mm Actuator 160gf	EG4372-ND	.34	.31	.26	TL1105XF160Q
	6mm Square Right Angle 5.85mm Actuator 160gf	EG4373-ND	1.20	1.08	.92	TL1105XF160Q94V0
	6mm Square Right Angle 5.85mm Actuator 250gf	EG4560-ND	.34	.31	.26	TL1105XF250Q
	6mm Square Right Angle 6.15mm Actuator 100gf	EG2500-ND	.42	.34	.31	TL1105RF100Q
	6mm Square Right Angle 6.15mm Actuator 160gf	EG1837-ND	.42	.34	.31	TL1105RF160Q
	6mm Square Right Angle 6.15mm Actuator 250gf	EG1838-ND	.42	.34	.31	TL1105RF250Q
	6mm Square Right Angle 6.85mm Actuator 100gf	EG4557-ND	.34	.31	.26	TL1105MF100Q
	6mm Square Right Angle 6.85mm Actuator 160gf	EG4370-ND	.34	.31	.26	TL1105MF160Q
	6mm Square Right Angle 6.85mm Actuator 250gf	EG4558-ND	.34	.31	.26	TL1105MF250Q
	6mm Square Right Angle 8.35mm Actuator 100gf	EG2501-ND	.42	.34	.31	TL1105SF100Q
	6mm Square Right Angle 8.35mm Actuator 160gf	EG1839-ND	.42	.34	.31	TL1105SF160Q
	6mm Square Right Angle 8.35mm Actuator 250gf	EG1840-ND	.42	.34	.31	TL1105SF250Q
9	6mm Square 7.5mm Extended Actuator 100gf	EG2502-ND	.33	.27	.24	TL1105SPF100Q
	6mm Square 7.5mm Extended Actuator 160gf	EG1861-ND	.33	.27	.24	TL1105SPF160Q
	6mm Square 7.5mm Extended Actuator 250gf	EG1862-ND	.33	.27	.24	TL1105SPF250Q
10	6mm Square R/A 2.8mm Ext. Actuator 100gf	EG2503-ND	.59	.47	.43	TL1105JAF100Q
	6mm Square R/A 2.8mm Ext. Actuator 160gf	EG1863-ND	.59	.47	.43	TL1105JAF160Q
	6mm Square R/A 2.8mmExt. Actuator 250gf	EG1864-ND	.59	.47	.43	TL1105JAF250Q

† Tape and Box § Cut Tape Δ Tape and Reel

(Continued)

Fig.	Description	Digi-Key Part No.	Price Each			E-Switch Part No.
			1	10	100	
11	6mm Square 3.1mm Actuator 100gf	EG4586CT-ND§ ***NEW!***	.99	.80	.72	TL3303F100QG
	6mm Square 3.1mm Actuator 100gf	EG4586TR-NDΔ ***NEW!***	597.00/1,500			TL3303F100QG
	6mm Square 3.1mm Actuator 160gf	EG4607CT-ND§ ***NEW!***	.99	.80	.72	TL3303F160QG
	6mm Square 3.1mm Actuator 160gf	EG4607TR-NDΔ ***NEW!***	597.00/1,500			TL3303F160QG
	6mm Square 3.1mm Actuator 260gf	EG4587CT-ND§ ***NEW!***	.99	.80	.72	TL3303F260QG
	6mm Square 3.1mm Actuator 260gf	EG4587TR-NDΔ ***NEW!***	597.00/1,500			TL3303F260QG
12	6mm Square SMT 4.3mm Actuator 160gf	EG1867CT-ND§	.56	.45	.41	TL3301NF160QG/TR
	6mm Square SMT 4.3mm Actuator 160gf	EG1867TR-NDΔ	214.50/1,000			TL3301NF160QG/TR
	6mm Square SMT 4.3mm Actuator 260gf	EG1868CT-ND§	.56	.45	.41	TL3301NF260QG
	6mm Square SMT 4.3mm Actuator 260gf	EG1868TR-NDΔ	228.80/1,000			TL3301NF260QG
	6mm Square SMT 5.0mm Act. 160gf Gull Wing	EG2526CT-ND§	.45	.36	.33	TL3301AF160QG
	6mm Square SMT 5.0mm Act. 160gf Gull Wing	EG2526TR-NDΔ	228.80/1,000			TL3301AF160QG
	6mm Square SMT 5.0mm Act. 260gf Gull Wing	EG2527CT-ND§	.45	.36	.33	TL3301AF260QG
	6mm Square SMT 5.0mm Act. 260gf Gull Wing	EG2527TR-NDΔ	214.50/1,000			TL3301AF260QG
	6mm Square SMT 7.0mm Actuator 160gf	EG4375CT-ND§	.51	.41	.37	TL3301FF160QG
	6mm Square SMT 7.0mm Actuator 160gf	EG4375TR-NDΔ	150.50/700			TL3301FF160QG
	6mm Square SMT 8.5mm Act. 160gf Gull Wing	EG4562CT-ND§	.51	.41	.37	TL3301PF160QG
	6mm Square SMT 8.5mm Act. 160gf Gull Wing	EG4562TR-NDΔ	156.00/650			TL3301PF160QG
13	6mm Square SMT 7.3mm Ext. Actuator 160gf	EG1869CT-ND§	.54	.43	.39	TL3301SPF160QG
	6mm Square SMT 7.3mm Ext. Actuator 160gf	EG1869TR-NDΔ	170.17/700			TL3301SPF160QG
	6mm Square SMT 7.3mm Ext. Actuator 260gf	EG1870CT-ND§	.54	.43	.39	TL3301SPF260QG
	6mm Square SMT 7.3mm Ext. Actuator 260gf	EG1870TR-NDΔ	170.17/700			TL3301SPF260QG
14	6mm Square SMT 4.3mm Actuator 160gf J-Lead	EG4376CT-ND§	.59	.48	.43	TL3301NF160QJ
	6mm Square SMT 4.3mm Actuator 160gf J-Lead	EG4376TR-NDΔ	269.50/1,100			TL3301NF160QJ
	6mm Square SMT 5.0mm Actuator 160gf J-Lead	EG4374CT-ND§	.59	.48	.43	TL3301AF160QJ
	6mm Square SMT 5.0mm Actuator 160gf J-Lead	EG4374TR-NDΔ	269.50/1,100			TL3301AF160QJ
15	SMT 3.44mm Actuator 160gf Gull Wing	EG2530CT-ND§	.81	.65	.59	TL3304AF160QG
	SMT 3.44mm Actuator 160gf Gull Wing	EG2530TR-NDΔ	597.00/1,500			TL3304AF160QG
	3.4mm SMT 3.4mm Actuator 160gf J-Lead	EG4377CT-ND§	.92	.74	.67	TL3304AF260QJ
	3.4mm SMT 3.4mm Actuator 160gf J-Lead	EG4377TR-NDΔ	636.80/1,600			TL3304AF260QJ
	Flush Actuator 160gf J-Lead	EG4380CT-ND§	.97	.78	.70	TL6700NF160QJ
	Flush Actuator 160gf J-Lead	EG4380TR-NDΔ	767.60/1,900			TL6700NF160QJ
	3.4mm Actuator 160gf J-Lead	EG4381CT-ND§	.97	.78	.70	TL6700AF160QJ
	3.4mm Actuator 160gf J-Lead	EG4381TR-NDΔ	646.40/1,600			TL6700AF160QJ
	Flush Actuator 260gf J-Lead	EG4382CT-ND§	.97	.78	.70	TL6700NF260QJ
	Flush Actuator 260gf J-Lead	EG4382TR-NDΔ	767.60/1,900			TL6700NF260QJ
	3.4mm Actuator 260gf J-Lead	EG4383CT-ND§	.97	.78	.70	TL6700AF260QJ
	3.4mm Actuator 260gf J-Lead	EG4383TR-NDΔ	646.40/1,600			TL6700AF260QJ
16	Flush Actuator 160gf Gull Wing	EG4384CT-ND§	.97	.78	.70	TL6700NF160QG
	Flush Actuator 160gf Gull Wing	EG4384TR-NDΔ	565.60/1,400			TL6700NF160QG
	3.4mm Actuator 160gf Gull Wing	EG4385CT-ND§	.97	.78	.70	TL6700AF160QG
	3.4mm Actuator 160gf Gull Wing	EG4385TR-NDΔ	565.60/1,400			TL6700AF160QG
	Flush Actuator 260gf Gull Wing	EG4386CT-ND§	.97	.78	.70	TL6700NF260QG
	Flush Actuator 260gf Gull Wing	EG4386TR-NDΔ	565.60/1,400			TL6700NF260QG
	3.4mm Actuator 260gf Gull Wing	EG4387CT-ND§	.97	.78	.70	TL6700AF260QG
	3.4mm Actuator 260gf Gull Wing	EG4387TR-NDΔ	565.60/1,400			TL6700AF260QG
17	3.15mm Right Angle Actuator 100gf Gull Wing	EG4390CT-ND§	.57	.46	.42	TL3320AF100Q
	3.15mm Right Angle Actuator 100gf Gull Wing	EG4390TR-NDΔ	119.50/500			TL3320AF100Q
	3.15mm Right Angle Actuator 130gf Gull Wing	EG4391CT-ND§	.57	.46	.42	TL3320AF130Q
	3.15mm Right Angle Actuator 130gf Gull Wing	EG4391TR-NDΔ	119.50/500			TL3320AF130Q
	3.15mm Right Angle Actuator 160gf Gull Wing	EG4392CT-ND§	.57	.46	.42	TL3320AF160Q
	3.15mm Right Angle Actuator 160gf Gull Wing	EG4392TR-NDΔ	119.50/500			TL3320AF160Q
	3.15mm Right Angle Actuator 250gf Gull Wing	EG4404CT-ND§	.57	.46	.42	TL3320AF250Q
	3.15mm Right Angle Actuator 250gf Gull Wing	EG4404TR-NDΔ	119.50/500			TL3320AF250Q
	3.85mm Right Angle Actuator 100gf Gull Wing	EG4393CT-ND§	.57	.46	.42	TL3320BF100Q
	3.85mm Right Angle Actuator 100gf Gull Wing	EG4393TR-NDΔ	119.50/500			TL3320BF100Q
	3.85mm Right Angle Actuator 130gf Gull Wing	EG4394CT-ND§	.57	.46	.42	TL3320BF130Q
	3.85mm Right Angle Actuator 130gf Gull Wing	EG4394TR-NDΔ	119.50/500			TL3320BF130Q
	3.85mm Right Angle Actuator 160gf Gull Wing	EG4395CT-ND§	.57	.46	.42	TL3320BF160Q
	3.85mm Right Angle Actuator 160gf Gull Wing	EG4395TR-NDΔ	119.50/500			TL3320BF160Q
	3.85mm Right Angle Actuator 250gf Gull Wing	EG4396CT-ND§	.57	.46	.42	TL3320BF250Q
	3.85mm Right Angle Actuator 250gf Gull Wing	EG4396TR-NDΔ	119.50/500			TL3320BF250Q
18	SMT 2.5mm Actuator 120gf Normally Closed	EG4588CT-ND§ ***NEW!***	.86	.69	.63	TL3310AF120QG
	SMT 2.5mm Actuator 120gf Normally Closed	EG4588TR-NDΔ ***NEW!***	1035.00/3,000			TL3310AF120QG
	SMT 2.5mm Actuator 200gf Normally Closed	EG4589CT-ND§ ***NEW!***	.86	.69	.63	TL3310AF200QG
	SMT 2.5mm Actuator 200gf Normally Closed	EG4589TR-NDΔ ***NEW!***	1035.00/3,000			TL3310AF200QG
19	Right Angle 3.15mm Actuator 100gf	EG4593CT-ND§ ***NEW!***	.37	.30	.27	TL58WF100Q
	Right Angle 3.15mm Actuator 100gf	EG4593TB-ND† ***NEW!***	104.30/700			TL58WF100Q
	Right Angle 3.15mm Actuator 160gf	EG4594CT-ND§ ***NEW!***	.37	.30	.27	TL58WF160Q
	Right Angle 3.15mm Actuator 160gf	EG4594TB-ND† ***NEW!***	104.30/700			TL58WF160Q
	Right Angle 3.15mm Actuator 260gf	EG4595CT-ND§ ***NEW!***	.37	.30	.27	TL58WF260Q
	Right Angle 3.15mm Actuator 260gf	EG4595TB-ND† ***NEW!***	104.30/700			TL58WF260Q
	Right Angle 3.85mm Actuator 100gf	EG4590CT-ND§ ***NEW!***	.37	.30	.27	TL58VF100Q
	Right Angle 3.85mm Actuator 100gf	EG4590TB-ND† ***NEW!***	104.30/700			TL58VF100Q
	Right Angle 3.85mm Actuator 160gf	EG4591CT-ND§ ***NEW!***	.37	.30	.27	TL58VF160Q
	Right Angle 3.85mm Actuator 160gf	EG4591TB-ND† ***NEW!***	104.30/700			TL58VF160Q
	Right Angle 3.85mm Actuator 260gf	EG4592CT-ND§ ***NEW!***	.37	.30	.27	TL58VF260Q
	Right Angle 3.85mm Actuator 260gf	EG4592TB-ND† ***NEW!***	104.30/700			TL58VF260Q
	Right Angle 4.75mm Actuator 100gf	EG4596CT-ND§ ***NEW!***	.37	.30	.27	TL58XF100Q
	Right Angle 4.75mm Actuator 100gf	EG4596TB-ND† ***NEW!***	104.30/700			TL58XF100Q
	Right Angle 4.75mm Actuator 160gf	EG4597CT-ND§ ***NEW!***	.37	.30	.27	TL58XF160Q
	Right Angle 4.75mm Actuator 160gf	EG4597TB-ND† ***NEW!***	104.30/700			TL58XF160Q
	Right Angle 4.75mm Actuator 260gf	EG4598CT-ND§ ***NEW!***	.37	.30	.27	TL58XF260Q
	Right Angle 4.75mm Actuator 260gf	EG4598TB-ND† ***NEW!***	104.30/700			TL58XF260Q
20	3.5mm Right Angle Actuator 130gf Gull Wing	EG4388CT-ND§	.51	.41	.37	TL3330AF130QG
	3.5mm Right Angle Actuator 130gf Gull Wing	EG4388TR-NDΔ	487.60/2,300			TL3330AF130QG
	3.5mm Right Angle Actuator 260gf Gull Wing	EG4389CT-ND§	.51	.41	.37	TL3330AF260QG
	3.5mm Right Angle Actuator 260gf Gull Wing	EG4389TR-NDΔ	487.60/2,300			TL3330AF260QG
21	6.2mm Square, H=4.3mm Actuator 160gf	EG2532CT-ND§	.31	.25	.23	TL59NF160Q
	6.2mm Square, H=4.3mm Actuator 160gf	EG2532TB-ND†	141.00/1,000			TL59NF160Q
	6.2mm Square, H=4.3mm Actuator 260gf	EG4568CT-ND§	.32	.26	.23	TL59NF260Q
	6.2mm Square, H=4.3mm Actuator 260gf	EG4568TB-NDΔ	141.00/1,000			TL59NF260Q
	6.2mm Square, H=5.00mm Actuator 100gf	EG4378CT-ND§	.31	.25	.23	TL59AF100Q
	6.2mm Square, H=5.00mm Actuator 100gf	EG4378TR-NDΔ	132.00/1,000			TL59AF100Q
	6.2mm Square, H=5.00mm Actuator 160gf	EG2533CT-ND§	.31	.25	.23	TL59AF160Q
	6.2mm Square, H=5.00mm Actuator 160gf	EG2533TB-ND†	141.00/1,000			TL59AF160Q
	6.2mm Square, H=7.00mm Actuator 160gf	EG4566CT-ND§	.32	.26	.23	TL59FF160Q
	6.2mm Square, H=7.00mm Actuator 160gf	EG4566TR-NDΔ	141.00/1,000			TL59FF160Q
	6.2mm Square, H=7.00mm Actuator 260gf	EG4567CT-ND§	.32	.26	.23	TL59FF260Q
	6.2mm Square, H=7.00mm Actuator 260gf	EG4567TR-NDΔ	136.00/1,000			TL59FF260Q
22	Dual Tact, 3.15mm Actuator 160gf	EG4604-ND† ***NEW!***	1.44	1.30	1.11	TL53F160Q
	Dual Tact, 3.85mm Actuator 160gf	EG4599-ND† ***NEW!***	1.44	1.30	1.11	TL53AF160Q
	Dual Tact, 5.85mm Actuator 160gf	EG4600-ND† ***NEW!***	1.44	1.30	1.11	TL53BF160Q
	Dual Tact, 6.15mm Actuator 160gf	EG4601-ND† ***NEW!***	1.44	1.30	1.11	TL53CF160Q
22	Dual Tact, 6.85mm Actuator 160gf	EG4602-ND† ***NEW!***	1.44	1.30	1.11	TL53DF160Q
	Dual Tact, 7.35mm Actuator 160gf	EG4603-ND† ***NEW!***	1.44	1.30	1.11	TL53EF160Q
	Dual Tact, 8.35mm Actuator 160gf	EG4605-ND† ***NEW!***	1.44	1.30	1.11	TL53GF160Q
23	Dual Tact, 6.80mm Actuator 180gf	EG4606-ND† ***NEW!***	.59	.54	.46	TL2243
—	SMT 1.5mm Actuator 160gf Gull Wing	EG2531CT-ND§	1.08	.87	.78	TL3342F160QG/TR
	SMT 1.5mm Actuator 160gf Gull Wing	EG2531TR-NDΔ	1148.00/4,000			TL3342F160QG/TR
24	6 x 3.5mm, H=4.3mm 130gf	EG2510-ND	.44	.36	.32	TL1107AF130WQ
	6 x 3.5mm, H=4.3mm 180gf	EG2511-ND	.44	.36	.32	TL1107AF180WQ
	6 x 3.5mm, H=5.0mm 130gf	EG2512-ND	.44	.36	.32	TL1107BF130WQ
	6 x 3.5mm, H=5.0mm 180gf	EG2513-ND	.44	.36	.32	TL1107BF180WQ
	6 x 3.5mm, H=4.3mm 180gf Gull Wing	EG2528CT-ND§	.59	.47	.43	TL3302AF180QG
	6 x 3.5mm, H=4.3mm 180gf Gull Wing	EG2528TR-NDΔ	516.60/1,800			TL3302AF180QG
	6 x 3.5mm, H=5.0mm 180gf Gull Wing	EG2529CT-ND§	.59	.47	.43	TL3302BF180QG/TR
	6 x 3.5mm, H=5.0mm 180gf Gull Wing	EG2529TR-NDΔ	516.60/1,800			TL3302BF180QG/TR
25	6 x 3.5mm, H=4.3mm 130gf Gull Wing	EG4582CT-ND§ ***NEW!***	.80	.64	.58	TL3302AF130QG
	6 x 3.5mm, H=4.3mm 130gf Gull Wing	EG4582TR-NDΔ ***NEW!***	576.00/1,800			TL3302AF130QG
	6 x 3.5mm, H=4.3mm 260gf Gull Wing	EG4584CT-ND§ ***NEW!***	.80	.64	.58	TL3302AF260QG
	6 x 3.5mm, H=4.3mm 260gf Gull Wing	EG4584TR-NDΔ ***NEW!***	576.00/1,800			TL3302AF260QG
	6 x 3.5mm, H=5.0mm 130gf Gull Wing	EG4583CT-ND§ ***NEW!***	.80	.64	.58	TL3302BF130QG
	6 x 3.5mm, H=5.0mm 130gf Gull Wing	EG4583TR-NDΔ ***NEW!***	576.00/1,800			TL3302BF130QG
	6 x 3.5mm, H=5.0mm 260gf Gull Wing	EG4585CT-ND§ ***NEW!***	.80	.64	.58	TL3302BF260QG
	6 x 3.5mm, H=5.0mm 260gf Gull Wing	EG4585TR-NDΔ ***NEW!***	576.00/1,800			TL3302BF260QG
26	6 x 3.5mm, H=4.3mm 130gf J-Lead	EG4578CT-ND§ ***NEW!***	.99	.80	.72	TL3302AF130QJ
	6 x 3.5mm, H=4.3mm 130gf J-Lead	EG4578TR-NDΔ ***NEW!***	716.40/1,800			TL3302AF130QJ
	6 x 3.5mm, H=4.3mm 180gf J-Lead	EG4576CT-ND§ ***NEW!***	.99	.80	.72	TL3302AF180QJ
	6 x 3.5mm, H=4.3mm 180gf J-Lead	EG4576TR-NDΔ ***NEW!***	716.40/1,800			TL3302AF180QJ
	6 x 3.5mm, H=4.3mm 260gf J-Lead	EG4580CT-ND§ ***NEW!***	.99	.80	.72	TL3302AF260QJ
	6 x 3.5mm, H=4.3mm 260gf J-Lead	EG4580TR-NDΔ ***NEW!***	716.40/1,800			TL3302AF260QJ
	6 x 3.5mm, H=5.0mm 130gf J-Lead	EG4579CT-ND§ ***NEW!***	.99	.80	.72	TL3302BF130QJ
	6 x 3.5mm, H=5.0mm 130gf J-Lead	EG4579TR-NDΔ ***NEW!***	716.40/1,800			TL3302BF130QJ
	6 x 3.5mm, H=5.0mm 180gf J-Lead	EG4577CT-ND§ ***NEW!***	.99	.80	.72	TL3302BF180QJ
	6 x 3.5mm, H=5.0mm 180gf J-Lead	EG4577TR-NDΔ ***NEW!***	716.40/1,800			TL3302BF180QJ
	6 x 3.5mm, H=5.0mm 260gf J-Lead	EG4581CT-ND§ ***NEW!***	.99	.80	.72	TL3302BF260QJ
	6 x 3.5mm, H=5.0mm 260gf J-Lead	EG4581TR-NDΔ ***NEW!***	716.40/1,800			TL3302BF260QJ
27	2-Lead, 6.2mm Square, 70gf	EG4413-ND	.55	.50	.43	TL1140AF070Q
28	2-Lead, 6x6mm, 70gf	EG4414-ND	.50	.45	.39	TL1150AF070Q
29	180gf Gull Wing without Boss	EG4342CT-ND§	.67	.54	.49	TL1014AF180QG
	180gf Gull Wing without Boss	EG4342TR-NDΔ	1116.00/3,000			TL1014AF180QG
	180gf Gull Wing with Boss	EG4343CT-ND§	.67	.54	.49	TL1014BF180QG
	180gf Gull Wing with Boss	EG4343TR-NDΔ	1116.00/3,000			TL1014BF180QG
30	160gf Gull Wing without Boss	EG4344CT-ND§	1.01	.81	.73	TL1015AF160QG
	160gf Gull Wing without Boss	EG4344TR-NDΔ	1047.50/2,500			TL1015AF160QG
	160gf Gull Wing with Boss	EG4345CT-ND§	.67	.54	.49	TL1015BF160QG
	160gf Gull Wing with Boss	EG4345TR-NDΔ	1047.50/2,500			TL1015BF160QG
31	7.8mm Square 5.0mm Actuator 120gf	EG4346-ND	.49	.40	.36	TL9000F120QG
	Process Sealed Tact Switches					
32	4.7mm Actuator 130gf	EG2638-ND	1.63	1.31	1.18	TL6100AF130QP
	4.7mm Actuator 160gf	EG2639-ND	1.63	1.31	1.18	TL6100AF160QP
	4.7mm Actuator 160gf with ESD Pin	EG2650-ND	1.67	1.34	1.21	TL6105AF160QP
	4.7mm Actuator 300gf	EG2640-ND	1.64	1.32	1.19	TL6100AF300QP
	4.7mm Actuator 130gf	EG2517-ND	1.10	.88	.80	GS4.70F130QP
	4.7mm Actuator 300gf	EG2518-ND	1.10	.88	.80	GS4.70F300QP
	4.7mm Actuator 130gf with ESD Pin	EG2523-ND	1.22	.98	.88	GSE4.70F130QP
	5.2mm Actuator 130gf	EG2641-ND	1.63	1.31	1.18	TL6100BF130QP
	5.2mm Actuator 160gf	EG2642-ND	1.64	1.32	1.19	TL6100BF160QP
	5.2mm Actuator 160gf with ESD Pin	EG2651-ND	1.67	1.34	1.21	TL6105BF160QP
	5.2mm Actuator 300gf	EG2643-ND	1.64	1.32	1.19	TL6100BF300QP
	6.34mm Right Angle Actuator 130gf	EG2521-ND	1.33	1.07	.96	GSR6.34F130QR
	6.9mm Actuator 130gf	EG2644-ND	.82	.66	.60	TL6100CF130QP
	6.9mm Actuator 160gf	EG2645-ND	1.64	1.32	1.19	TL6100CF160QP
	6.9mm Actuator 300gf	EG2646-ND	1.64	1.32	1.19	TL6100CF300QP
	8.54mm Right Angle Actuator 130gf	EG2522-ND	1.22	.98	.89	GSR8.54F130QR
	10mm Actuator 130gf	EG2647-ND	.82	.66	.60	TL6100DF130QP
	10mm Actuator 160gf	EG2648-ND	1.64	1.32	1.19	TL6100DF160QP
	10mm Actuator 160gf with ESD Pin	EG2653-ND	1.68	1.35	1.22	TL6105DF160QP
	10mm Actuator 300gf	EG2649-ND	1.64	1.32	1.19	TL6100DF300QP
	10mm Actuator 130gf	EG2519-ND	1.10	.88	.80	GS10.00F130QP
	10mm Actuator 300gf	EG2520-ND	1.10	.88	.80	GS10.00F300QP
	10mm Actuator 130gf with ESD Pin	EG2524-ND	1.22	.98	.88	GSE10.00F130QP
	Sealed Tact Switches					
33	3.5mm Right Angle Actuator 130gf	EG4362-ND	1.31	1.18	1.01	TL6110AF130QP
	3.5mm Right Angle Actuator 160gf	EG4361-ND	1.31	1.18	1.01	TL6110AF160QP
	4.0mm Right Angle Actuator 130gf	EG4347-ND	1.31	1.18	1.01	TL6110BF130QP
	4.0mm Right Angle Actuator 300gf	EG4348-ND	1.31	1.19	1.01	TL6110BF300QP
	5.7mm Right Angle Actuator 160gf	EG4349-ND	1.33	1.20	1.02	TL6110CF160QP
	8.7mm Right Angle Actuator 160gf	EG4359-ND	1.33	1.20	1.02	TL6110DF160QP
	8.7mm Right Angle Actuator 300gf	EG4360-ND	1.34	1.21	1.03	TL6110DF300QP
34	SMT 4.7mm Actuator 160gf	EG4350CT-ND§	.99	.80	.72	TL6120AF160QG
	SMT 4.7mm Actuator 160gf	EG4350TR-NDΔ	657.00/1,000			TL6120AF160QG
	SMT 4.7mm Actuator 300gf	EG4354CT-ND§	.99	.80	.72	TL6120AF300QG
	SMT 4.7mm Actuator 300gf	EG4354TR-NDΔ	657.00/1,000			TL6120AF300QG
	SMT 5.2mm Actuator 130gf	EG4351CT-ND§	.99	.80	.72	TL6120BF130QG
	SMT 5.2mm Actuator 130gf	EG4351TR-NDΔ	657.00/1,000			TL6120BF130QG
	SMT 5.2mm Actuator 300gf	EG4352CT-ND§	.99	.80	.72	TL6120BF300QG
	SMT 5.2mm Actuator 300gf	EG4352TR-NDΔ	657.00/1,000			TL6120BF300QG
	SMT 6.9mm Actuator 160gf	EG4353CT-ND§	1.00	.81	.73	TL6120CF160QG
	SMT 6.9mm Actuator 160gf	EG4353TR-NDΔ	490.70/700			TL6120CF160QG
	SMT 6.9mm Actuator 300gf	EG4355CT-ND§	1.00	.81	.73	TL6120CF300QG
	SMT 6.9mm Actuator 300gf	EG4355TR-NDΔ	490.70/700			TL6120CF300QG
	SMT 10mm Actuator 300gf	EG4356CT-ND§	1.00	.81	.73	TL6120DF300QG
	SMT 10mm Actuator 300gf	EG4356TR-NDΔ	249.60/300			TL6120DF300QG
	Key Caps					
35	W=12 x 12mm Black Fits 12mm Ext. Act. Types	EG1080-ND	.22	.18	.17	4JBLK
	W=12 x 12mm Grey Fits 12mm Ext. Act. Types	EG1079-ND	.21	.18	.16	4JGRY
	W=12 x 12mm Red Fits 12mm Ext. Act. Types	EG1078-ND	.21	.18	.16	4JRED
	W=12 x 12mm White Fits 12mm Ext. Act. Types	EG1077-ND	.21	.18	.16	4JWHT
	W=8 x 8mm Black Fits, 12mm Ext. Act. Types	EG1885-ND	.17	.16	.14	6JBLK
	W=8 x 8mm Red Fits, 12mm Ext. Act. Types	EG1886-ND	.17	.16	.14	6JRED
	W=8 x 8mm White Fits 12mm Ext. Act. Types	EG1887-ND	.17	.16	.14	6JWHT
	W=8 x 8mm Grey Fits 12mm Ext. Act. Types	EG1888-ND	.17	.16	.14	6JGRY

† Tape and Box § Cut Tape Δ Tape and Reel

Dual LED Tact Switches

SPECIFICATIONS:

• Rating: 12VDC, 50mA maximum • Contact Resistance: 500mΩ maximum • Insulation Resistance: 100VDC, 100MΩ minimum • Travel: 0.25mm • Operating Force: 160 +75/-30gf • Operating Temperature: -20°C ~ 70°C • Operating Life: 30,000 Cycles • Switching Function: Momentary

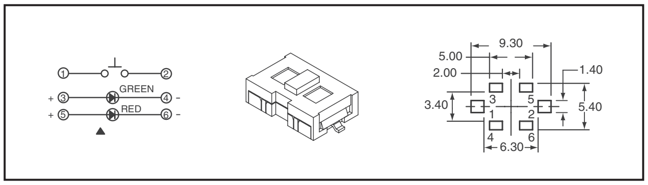

Color	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 3,000	E-Switch Part No.
Green/Red	EG4409CT-ND	3.98	3.18	2.87	EG4409TR-ND	1802.00/M	TL3200AF160GRQ
Red/Red	EG4410CT-ND	3.98	3.18	2.87	EG4410TR-ND	1802.00/M	TL3200AF160RRQ

Dual Action Tact Switches

SPECIFICATIONS:

• Contact Resistance: 200mΩ max. • Rating: 30VDC, 20mA • Stroke: 1st - 0.30±0.10, 2nd - 0.55±0.15 • Life Cycle: 10,000 min. • Forces: 1st - 100±40gf, 2nd - 250±80gf

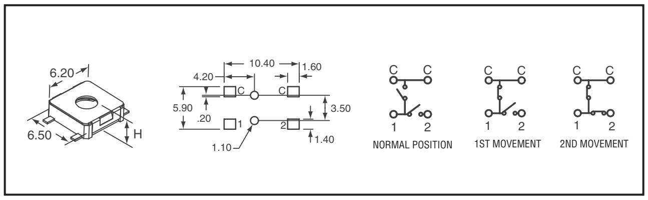

Function	Dim. H (mm)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 1,200	E-Switch Part No.
Without Actuator	2.00	EG4411CT-ND	1.22	.98	.89	EG4411TR-ND	576.00/M	TL3350AF100Q
With Actuator	3.80	EG4412CT-ND	1.22	.98	.89	EG4412TR-ND	576.00/M	TL3350BF100Q

C&K

Momentary Tact Switches
PTS Series

Dim. in mm

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel*		C&K Components Part No.
				1	25	100	Qty.	Pricing	
	PTS Momentary Tact Switches (Non-Washable)								
1	6mm, with ESD pin — 130gF	4.3	CKN9011-ND	.53	10.56	33.44	—	—	PTS645TL43
	6mm, with ESD pin — 130gF	4.3	CKN9096-ND	.16	3.52	11.84	—	—	PTS645TL43 LFS
	6mm, w/o ESD pin — 130gF	4.3	CKN9098-ND	.13	2.71	9.12	—	—	PTS645SL43 LFS
	6mm, with ESD pin — 200gF	4.3	CKN1762-ND	.64	14.78	54.18	—	—	PTS645TH43
	6mm, with ESD pin — 200gF	4.3	CKN9083-ND	.16	3.52	11.84	—	—	PTS645TH43 LFS
	6mm, w/o ESD pin — 260gF	4.3	CKN1760-ND	.57	13.20	48.40	—	—	PTS645SK43
	6mm, w/o ESD pin — 260gF	4.3	CKN9090-ND	.13	2.71	9.12	—	—	PTS645SK43 LFS
	6mm, with ESD pin — 130gF	5.0	CKN9095-ND	.16	3.52	11.84	—	—	PTS645TL50 LFS
	6mm, w/o ESD pin — 130gF	5.0	CKN9092-ND	.13	2.71	9.12	—	—	PTS645SL50 LFS
	6mm, w/o ESD pin — 200gF	5.0	CKN9093-ND	.13	2.71	9.12	—	—	PTS645SH50 LFS
	6mm, with ESD pin — 200gF	5.0	CKN9081-ND	.16	3.52	11.84	—	—	PTS645TH50 LFS
	6mm, w/o ESD pin — 200gF	5.0	CKN1825-ND	.44	8.70	27.55	—	—	PTS645SH50
	6mm, w/o ESD pin — 260gF	5.0	CKN9082-ND	.13	2.71	9.12	—	—	PTS645SK50 LFS
	6mm, with ESD pin — 130gF	7.0	CKN9086-ND	.16	3.52	11.84	—	—	PTS645TL70 LFS
	6mm, w/o ESD pin — 130gF	7.0	CKN1577-ND	.37	7.44	23.56	—	—	PTS645SL70
	6mm, w/o ESD pin — 130gF	7.0	CKN9071-ND	.13	2.71	9.12	—	—	PTS645SL70 LFS
	6mm, w/o ESD pin — 200gF	7.0	CKN9074-ND	.13	2.71	9.12	—	—	PTS645SH70 LFS
	6mm, w/o ESD pin — 130gF	9.5	CKN9078-ND	.13	2.71	9.12	—	—	PTS645SL95 LFS
	6mm, w/o ESD pin — 200gF	9.5	CKN9091-ND	.13	2.71	9.12	—	—	PTS645SH95 LFS
2	6mm, Right Angle — 130gF	3.15	CKN9094-ND	.19	4.13	13.92	—	—	PTS645VL31 LFS
	6mm, Right Angle — 130gF	3.85	CKN9103-ND	.19	4.13	13.92	—	—	PTS645VL39 LFS
	6mm, Right Angle — 200gF	3.15	CKN9118-ND	.26	5.22	16.53	—	—	PTS645VH31 LFS
	6mm, Right Angle — 200gF	3.85	CKN9115-ND	.26	5.22	16.53	—	—	PTS645VH39 LFS
	6mm, Right Angle — 130gF	5.85	CKN9116-ND	.26	5.22	16.53	—	—	PTS645VL58 LFS
	6mm, Right Angle — 200gF	5.85	CKN9120-ND	.26	5.22	16.53	—	—	PTS645VH58 LFS
	6mm, Right Angle — 130gF	8.35	CKN9123-ND	.26	5.22	16.53	—	—	PTS645VL83 LFS
	6mm, Right Angle — 200gF	8.35	CKN9121-ND	.26	5.22	16.53	—	—	PTS645VH83 LFS
	6mm, Right Angle — 130gF	15.85	CKN9075-ND	.19	4.13	13.92	—	—	PTS645VL15 LFS
	6mm, Right Angle — 200gF	15.85	CKN9079-ND	.19	4.13	13.92	—	—	PTS645VH15 LFS
3	6mm, 2-pin — 160gF	4.3	CKN9108CT-ND†	.22	4.44	14.06	1,000	133.20	PTS645SM43TR LFS
	6mm, 2-pin — 260gF	4.3	CKN1791CT-ND†	.47	10.88	39.88	1,000	261.00	PTS645SK43TR
	6mm, 2-pin — 260gF	4.3	CKN9107CT-ND†	.22	4.44	14.06	1,000	133.20	PTS645SK43TR LFS
	6mm, 2-pin — 260gF	5.0	CKN1792CT-ND†	.30	6.98	25.58	—	—	PTS645SK50TR
	6mm, 2-pin — 260gF	5.0	CKN9113CT-ND†	.22	4.44	14.06	1,000	133.20	PTS645SK50TR LFS
	6mm, 2-pin — 160gF	5.0	CKN1579CT-ND†	.34	7.80	28.60	1,000	187.00	PTS645SM50TR
	6mm, 2-pin — 160gF	5.0	CKN9127CT-ND†	.22	4.44	14.06	1,000	133.20	PTS645SM50TR LFS
	6mm, 2-pin — 130gF	7.0	CKN1794CT-ND†	.39	8.93	32.73	—	—	PTS645SL70TR
	6mm, 2-pin — 130gF	7.0	CKN9110CT-ND†	.22	4.44	14.06	1,000	133.20	PTS645SL70TR LFS
4	6mm, w/o ESD pin — 130gF	7.3	CKN9072-ND	.14	3.09	10.40	—	—	PTS645SJL73 LFS
	6mm, w/o ESD pin — 200gF	7.3	CKN9073-ND	.14	3.09	10.40	—	—	PTS645SJH73 LFS
5	12mm, w/o ESD pin — 160gF	7.3	CKN9141-ND	.49	9.84	31.16	—	—	PTS125SJM73 LFS
	12mm, w/o ESD pin — 260gF	7.3	CKN1566-ND	.45	10.35	37.95	—	—	PTS125SJK73
	12mm, w/o ESD pin — 260gF	7.3	CKN9142-ND	.49	9.84	31.16	—	—	PTS125SJK73 LFS
6	12mm, w/o ESD pin — 160gF	4.3	CKN9100-ND	.30	6.56	22.08	—	—	PTS125SM43 LFS
	12mm, w/o ESD pin — 260gF	4.3	CKN9139-ND	.41	8.28	26.22	—	—	PTS125SK43 LFS
	12mm, w/o ESD pin — 160gF	8.5	CKN9140-ND	.41	8.28	26.22	—	—	PTS125SM85 LFS
	12mm, w/o ESD pin — 260gF	8.5	CKN9151-ND	.41	8.28	26.22	—	—	PTS125SK85 LFS
7	12mm, Right Angle Square Act. — 160gF	6.2	CKN9101-ND	.41	8.84	29.76	—	—	PTS125VJM73 LFS
	12mm, Right Angle Square Act. — 160gF	13.2	CKN1801-ND	.45	10.35	37.95	—	—	PTS125VJM73
8	6mm, w/o ESD pin — 160gF	4.3	CKN9112CT-ND*	.24	4.86	15.39	1,000	145.80	PTS645SM43SMTR LFS
	6mm, w/o ESD pin, SMT — 260gF	4.3	CKN9084CT-ND*	.26	5.67	18.23	1,000	145.80	PTS645SK43SMTRLFS
	6mm, w/o ESD pin — 130gF	5.0	CKN9088CT-ND*	.32	6.86	22.05	1,000	196.00	PTS645SL50SMTR LFS
	6mm, w/o ESD pin — 200gF	5.0	CKN9085CT-ND*	.31	6.58	21.15	1,000	169.20	PTS645SH50SMTRLFS
	6mm, w/o ESD pin — 260gF	5.0	CKN9087CT-ND*	.31	6.58	21.15	1,000	169.20	PTS645SK50SMTRLFS
9	12mm, w/o ESD pin — 160gF	12.0	CKN9138-ND	.41	8.28	26.22	—	—	PTS125SM12 LFS
10	5.25mm, Square SMT — 160gF	0.8	CKN1572CT-ND*	.47	10.88	39.88	—	—	PTS525SM08
	5.25mm, Square SMT — 160gF	0.8	CKN9125CT-ND*	.56	11.22	35.53	3,000	336.60/M	PTS525SM08SMTR LFS
	5.25mm, Square SMT — 160gF	1.5	CKN9104CT-ND*	.56	11.22	35.53	3,000	336.60/M	PTS525SM10SMTR LFS
11	6 x 3.5mm, w/o ESD pin — 130gF	5.0	CKN9102-ND	.26	5.51	18.56	—	—	PTS635SL50 LFS
	6 x 3.5mm, w/o ESD pin — 130gF	4.3	CKN9097-ND	.28	6.13	20.64	—	—	PTS635SL43 LFS
12	6 x 3.5mm, Right Angle — 130gF	3.85	CKN9099-ND	.26	5.51	18.56	—	—	PTS635VL39 LFS
	6 x 3.5mm, Right Angle — 130gF	3.15	CKN9080-ND	.26	5.51	18.56	—	—	PTS635VL31 LFS
	6 x 3.5mm, Right Angle — 200gF	3.85	CKN9089-ND	.26	5.51	18.56	—	—	PTS635VH39 LFS
	6 x 3.5mm, Right Angle — 200gF	3.15	CKN9077-ND	.26	5.51	18.56	—	—	PTS635VH31 LFS
13	6.1 x 3.7mm, w/o ESD pin, SMT — 130gF	2.5	CKN9119CT-ND*	.53	10.62	33.63	3,000	318.60/M	PTS635SL25SMTR LFS
	6.1 x 3.7mm, w/o ESD pin — 260gF	2.5	CKN1770-ND	.49	11.33	41.53	—	—	PTS635SK25SM
	6.1 x 3.7mm, w/o ESD pin, SMT — 260gF	2.5	CKN9076CT-ND*	.58	12.39	39.83	3,000	318.60/M	PTS635SK25SMTR LFS

* For Tape and Reel part number, change CT-ND to TR-ND. † For Tape and Box part number, change CT-ND to TB-ND.

Fig. 1

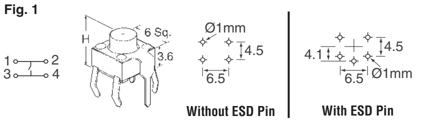

Without ESD Pin With ESD Pin

Fig. 2

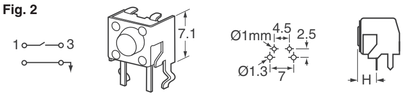

Fig. 3

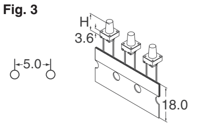

Fig. 4

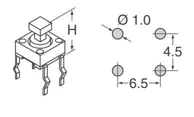

Fig. 5

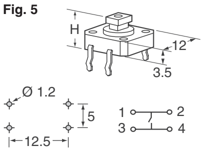

Fig. 6

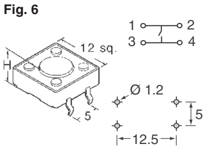

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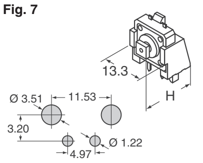

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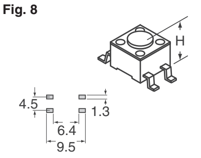

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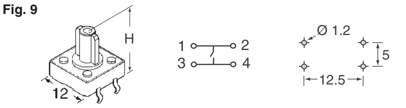

Fig. 10

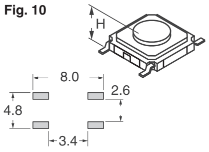

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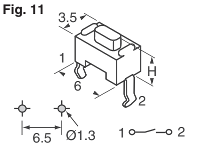

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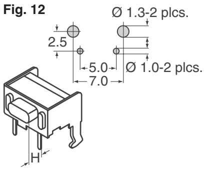

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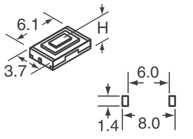

C&K

Momentary Tact Switches KT11 Series

Dim. in mm

Fig. 1

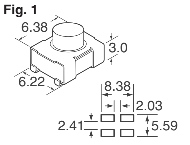

Fig. 2

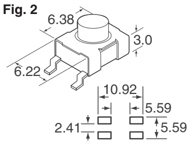

Fig. 3

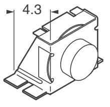

Fig. 4

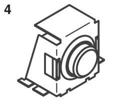

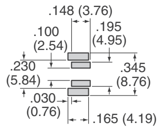

Fig. 5

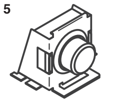

Fig. 6

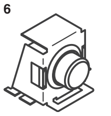

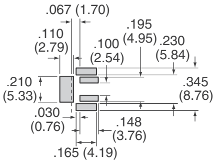

Fig.	Actuator Height	Termination	Contact Material	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	C&K Components Part No.
1	Flush	J-Lead	Silver	CKN1831CT-ND◆	2.35	2.18	2.00	CKN1831TR-ND◆	1,100	1303.20/M	KT11B0JM34LFS
	.025”	J-Lead	Silver	CKN1835CT-ND◆	2.56	2.37	2.17	CKN1835TR-ND◆	1,100	1418.40/M	KT11B1JM34LFS
	.088”	J-Lead	Silver	CKN1864CT-ND◆	2.61	2.42	2.22	CKN1864TR-ND◆	1,100	1447.20/M	KT11B2JM34 LFS
	.093”	J-Lead	Silver	CKN1842CT-ND◆	2.43	2.25	2.06	CKN1842TR-ND◆	1,100	1344.60/M	KT11P2JM34LFS
	.044”	J-Lead	Silver	CKN1849CT-ND◆	2.40	2.22	2.04	CKN1849TR-ND◆	1,100	1330.20/M	KT11P3JM34LFS
	.156”	J-Lead	Silver	CKN1855CT-ND◆	2.46	2.28	2.09	CKN1855TR-ND◆	800	1090.08	KT11P4JM34LFS
2	Flush	Gullwing	Silver	CKN4072CT-ND	2.26	1.95	1.57	—	—	—	KT11B0SM
	Flush	Gullwing	Silver	CKN1834CT-ND◆	2.73	2.52	2.31	CKN1834TR-ND◆	1,100	1512.00/M	KT11B0SM34LFS
	.025”	Gullwing	Silver	CKN1838CT-ND◆	2.97	2.74	2.52	CKN1838TR-ND◆	1,100	1643.40/M	KT11B1SM34LFS
	.088”	Gullwing	Silver	CKN1841CT-ND◆	2.98	2.75	2.52	CKN1841TR-ND◆	1,100	1648.80/M	KT11B2SM34LFS
	.093”	Gullwing	Silver	CKN1848CT-ND◆	2.78	2.57	2.36	CKN1848TR-ND◆	1,100	1539.00/M	KT11P2SM34LFS
	.044”	Gullwing	Silver	CKN1854CT-ND◆	2.75	2.54	2.33	CKN1854TR-ND◆	1,100	1522.80/M	KT11P3SM34LFS
	.156”	Gullwing	Silver	CKN1860CT-ND◆	2.81	2.60	2.38	CKN1860TR-ND◆	800	1244.16	KT11P4SM34LFS
3	Flush	Gullwing	Silver	CKN1832CT-ND◆	2.59	2.40	2.20	CKN1832TR-ND◆	800	1149.12	KT11B0SAM34LFS
	Flush	Gullwing	Gold	CKN1804CT-ND	2.76	2.55	2.34	—	—	—	KT11B0SAM33
	.025”	Gullwing	Silver	CKN1836CT-ND◆	2.61	2.42	2.22	CKN1836TR-ND◆	800	1157.76	KT11B1SAM34LFS
	.025”	Gullwing	Gold	CKN1805CT-ND	3.23	2.99	2.74	CKN1805TR-ND	800	1431.20	KT11B1SAM33
	.025”	Gullwing	Gold	CKN1837CT-ND◆	4.05	3.74	3.43	CKN1837TR-ND◆	800	1794.24	KT11B1SAM35LFG
	.088”	Gullwing	Silver	CKN1839CT-ND◆	2.64	2.44	2.24	CKN1839TR-ND◆	800	1169.28	KT11B2SAM34LFS
	.088”	Gullwing	Gold	CKN1806CT-ND	2.82	2.61	2.39	—	—	—	KT11B2SAM33
	.088”	Gullwing	Gold	CKN1840CT-ND◆	4.05	3.74	3.43	CKN1840TR-ND◆	800	1794.24	KT11B2SAM35LFG
4	Press Fit	Gullwing	Silver	CKN1862CT-ND◆	2.93	2.70	2.48	CKN1862TR-ND◆	500	810.00	KT11S1SA3M34LFS
	.093”	Gullwing	Gold	CKN1803CT-ND	2.19	2.02	1.86	—	—	—	KT11P2SA3M33
	.093”	Gullwing	Gold	CKN1847CT-ND◆	3.40	3.14	2.88	CKN1847TR-ND◆	500	941.40	KT11P2SA3M35LFG
	.093”	Gullwing	Silver	CKN1846CT-ND◆	3.40	3.14	2.88	CKN1846TR-ND◆	500	941.40	KT11P2SA3M34LFS
	.044”	Gullwing	Gold	CKN1785CT-ND	2.95	2.73	2.50	—	—	—	KT11P3SA3M33
	.044”	Gullwing	Gold	CKN1853CT-ND◆	4.01	3.71	3.40	CKN1853TR-ND◆	500	1111.50	KT11P3SA3M35LFG
	.156”	Gullwing	Gold	CKN1859CT-ND◆	6.65	6.15	5.63	CKN1859TR-ND◆	500	1842.30	KT11P4SA3M35LFG
5	.093”	Gullwing	Gold	CKN1807CT-ND	2.76	2.55	2.34	—	—	—	KT11P2SA1M33
	.093”	Gullwing	Gold	CKN1843CT-ND◆	3.47	3.21	2.94	CKN1843TR-ND◆	800	1536.48	KT11P2SA1M35LFG
	.044”	Gullwing	Silver	CKN1850CT-ND◆	2.59	2.40	2.20	CKN1850TR-ND◆	800	1149.12	KT11P3SA1M34LFS
	.044”	Gullwing	Gold	CKN1808CT-ND	2.76	2.55	2.34	—	—	—	KT11P3SA1M33
	.156”	Gullwing	Silver	CKN1856CT-ND◆	2.64	2.44	2.24	CKN1856TR-ND◆	800	1169.28	KT11P4SA1M34LFS
	.156”	Gullwing	Gold	CKN1857CT-ND◆	3.40	3.14	2.88	CKN1857TR-ND◆	800	1506.24	KT11P4SA1M35LFG
6	Press Fit	Gullwing	Gold	CKN1861CT-ND◆	3.62	3.35	3.07	CKN1861TR-ND◆	600	1204.20	KT11S1SA2M35LFG
	Snap Fit	Gullwing	Gold	CKN1863CT-ND◆	3.62	3.35	3.07	CKN1863TR-ND◆	600	1204.20	KT11S2SA2M35LFG
	.093”	Gullwing	Silver	CKN1844CT-ND◆	2.61	2.42	2.22	CKN1844TR-ND◆	600	868.32	KT11P2SA2M34LFS
	.093”	Gullwing	Gold	CKN1810CT-ND	2.76	2.55	2.34	—	—	—	KT11P2SA2M33
	.093”	Gullwing	Gold	CKN1845CT-ND◆	3.64	3.36	3.08	CKN1845TR-ND◆	600	1209.60	KT11P2SA2M35LFG
	.044”	Gullwing	Gold	CKN1802CT-ND	2.76	2.55	2.34	—	—	—	KT11P3SA2M33
	.044”	Gullwing	Gold	CKN1852CT-ND◆	3.23	2.99	2.74	CKN1852TR-ND◆	3,000	1491.00/M	KT11P3SA2M35LFG
	.156”	Gullwing	Gold	CKN1858CT-ND◆	3.49	3.23	2.96	CKN1858TR-ND◆	600	1159.92	KT11P4SA2M35LFG

◆ *RoHS Compliant*

Sealed Surface Mount Tact Switches KSC Series —

Washable, Totally Sealed (IP67)

- **Circuit:** SPST-NO • **Switching:** Maximum Voltage: 32VDC; Maximum Current: Silver: 50mA; Gold: 10mA • **Contact Resistance:** 100mΩ • **Operating Temperature:** Silver: -40°C ~ 85°C; Gold: -40°C ~ 125°C

Dim. in mm

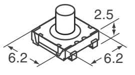

J-Lead Shown

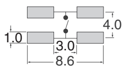

J-Lead PCB

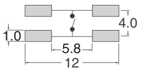

Gullwing PCB

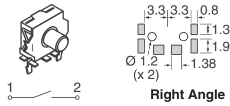

Right Angle

Operating Force	Actuator	Termination	Contact Material	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	C&K Components Part No.
160gF	Flush	Gullwing	Silver	401-1749-1-ND◆	.41	.38	.35	—	—	—	KSC121GLFS
300gF	Flush	Gullwing	Silver	401-1071-1-ND	.47	.44	.41	—	—	—	KSC141G
300gF	Flush	Gullwing	Silver	401-1751-1-ND◆	.41	.38	.35	401-1751-2-ND◆	2,000	225.00/M	KSC141GLFS
300gF	Flush	J-Lead	Silver	401-1072-1-ND	.47	.44	.41	—	—	—	KSC141J
300gF	Flush	J-Lead	Silver	401-1752-1-ND◆	.41	.38	.35	—	—	—	KSC141JLFS
550gF	Flush	Gullwing	Silver	401-1073-1-ND	.49	.45	.42	—	—	—	KSC151G
550gF	Flush	Gullwing	Silver	401-1753-1-ND◆	.54	.51	.46	—	—	—	KSC151GLFS
550gF	Flush	J-Lead	Silver	401-1074-1-ND	.49	.45	.42	—	—	—	KSC151J
550gF	Flush	J-Lead	Silver	401-1754-1-ND◆	.54	.51	.46	401-1754-2-ND◆	2,000	300.60/M	KSC151JLFS
120gF	Soft 3.5mm	Gullwing	Silver	401-1457-1-ND	.47	.44	.41	—	—	—	KSC201G
120gF	Soft 3.5mm	Gullwing	Silver	401-1755-1-ND◆	.43	.40	.37	401-1755-2-ND◆	2,000	239.40/M	KSC201GLFS
120gF	Soft 3.5mm	J-Lead	Silver	401-1756-1-ND◆	.43	.40	.37	401-1756-2-ND◆	2,000	239.40/M	KSC201JLFS
160gF	Soft 3.5mm	J-Lead	Silver	CKN9195CT-ND◆§	.42	.39	.36	CKN9195TR-ND◆§	2,000	234.00/M	KSC222J LFS
160gF	Soft 3.5mm	Gullwing	Silver	CKN9194CT-ND◆§	.42	.39	.36	CKN9194TR-ND◆§	2,000	234.00/M	KSC222G LFS
200gF	Soft 3.5mm	Gullwing	Silver	401-1757-1-ND◆	.41	.39	.35	401-1757-2-ND◆	2,000	228.60/M	KSC221GLFS
200gF	Soft 3.5mm	J-Lead	Silver	401-1758-1-ND◆	.41	.39	.35	401-1758-2-ND◆	2,000	228.60/M	KSC221JLFS
160gF	Soft 3.5mm	Gullwing	Gold	401-1459-1-ND	.59	.54	.50	—	—	—	KSC223G
160gF	Soft 3.5mm	Gullwing	Gold	401-1759-1-ND◆	.58	.54	.49	401-1759-2-ND◆	2,000	320.40/M	KSC223GLFG
160gF	Soft 3.5mm	J-Lead	Gold	401-1460-1-ND	.59	.54	.50	—	—	—	KSC223J
160gF	Soft 3.5mm	J-Lead	Gold	401-1760-1-ND◆	.58	.54	.49	—	—	—	KSC223JLFG
300gF	Soft 3.5mm	Gullwing	Gold	401-1269-1-ND	.66	.62	.57	—	—	—	KSC243G
300gF	Soft 3.5mm	Gullwing	Gold	401-1763-1-ND◆	.59	.55	.51	401-1763-2-ND◆	2,000	329.40/M	KSC243GLFG
300gF	Soft 3.5mm	J-Lead	Gold	401-1764-1-ND◆	.59	.55	.51	401-1764-2-ND◆	2,000	329.40/M	KSC243JLFG
350gF	Soft 3.5mm	Gullwing	Silver	401-1761-1-ND◆	.42	.39	.36	401-1761-2-ND◆	2,000	234.00/M	KSC241GLFS
350gF	Soft 3.5mm	J-Lead	Silver	401-1762-1-ND◆	.42	.39	.36	401-1762-2-ND◆	2,000	234.00/M	KSC241JLFS
160gF	Hard 3.5mm	Gullwing	Silver	401-1765-1-ND◆	.42	.39	.36	401-1765-2-ND◆	2,000	234.00/M	KSC321GLFS
160gF	Hard 3.5mm	J-Lead	Silver	401-1701-1-ND	.45	.42	.38	—	—	—	KSC321J
160gF	Hard 3.5mm	J-Lead	Silver	401-1766-1-ND◆	.42	.39	.36	401-1766-2-ND◆	2,000	234.00/M	KSC321JLFS
160gF	Hard 3.5mm	Gullwing	Gold	401-1461-1-ND	.57	.53	.48	—	—	—	KSC323G
160gF	Hard 3.5mm	Gullwing	Gold	401-1767-1-ND◆	.55	.51	.47	401-1767-2-ND◆	2,000	302.40/M	KSC323GLFG
160gF	Hard 3.5mm	J-Lead	Gold	401-1768-1-ND◆	.55	.51	.47	401-1768-2-ND◆	2,000	302.40/M	KSC323JLFG
300gF	Hard 3.5mm	Gullwing	Silver	401-1463-1-ND	.47	.44	.40	—	—	—	KSC341G
300gF	Hard 3.5mm	Gullwing	Silver	401-1769-1-ND◆	.47	.44	.40	401-1769-2-ND◆	2,000	234.00/M	KSC341GLFS
300gF	Hard 3.5mm	J-Lead	Silver	401-1267-1-ND	.47	.44	.40	—	—	—	KSC341J
300gF	Hard 3.5mm	J-Lead	Silver	401-1770-1-ND◆	.42	.39	.36	401-1770-2-ND◆	2,000	234.00/M	KSC341JLFS
300gF	Hard 3.5mm	Gullwing	Gold	401-1464-1-ND	.57	.53	.49	—	—	—	KSC343G
300gF	Hard 3.5mm	Gullwing	Gold	401-1771-1-ND◆	.55	.51	.47	401-1771-2-ND◆	2,000	302.40/M	KSC343GLFG
300gF	Hard 3.5mm	J-Lead	Gold	401-1465-1-ND	.57	.53	.49	—	—	—	KSC343J
300gF	Hard 3.5mm	J-Lead	Gold	401-1772-1-ND◆	.55	.51	.47	401-1772-2-ND◆	2,000	302.40/M	KSC343JLFG
550gF	Hard 3.5mm	Gullwing	Silver	401-1272-1-ND	.58	.54	.50	—	—	—	KSC351G
550gF	Hard 3.5mm	Gullwing	Silver	401-1773-1-ND◆	.47	.44	.40	401-1773-2-ND◆	2,000	261.00/M	KSC351GLFS

◆ ***RoHS Compliant*** † Bulk § Long Life Version ‡ KSC5 Not Sealed *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

C&K Sealed Surface Mount Tact Switches KSC Series — Washable, Totally Sealed (IP67) *(Cont.)*

Digi-Reel®

Operating Force	Actuator	Termination	Contact Material	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		C&K Components Part No.
					1	25	100		Qty.	Pricing	
550gF	Hard 3.5mm	J-Lead	Silver	401-1774-1-ND◆	.47	.44	.40	401-1774-2-ND◆	2,000	261.00/M	KSC351JLFS
120gF	Soft 5.2mm	J-Lead	Silver	401-1466-1-ND	.60	.56	.51	401-1466-2-ND	1,000	333.00	KSC401J50SH
120gF	Soft 5.2mm	J-Lead	Silver	401-1775-1-ND◆	.52	.48	.44	401-1775-2-ND◆	1,000	288.00	KSC401J 50SH LFS
120gF	Soft 5.2mm	J-Lead	Gold	401-1776-1-ND◆	.81	.75	.69	401-1776-2-ND◆	1,000	450.00	KSC403J 50SH LFG
140gF	Soft 5.2mm	Gullwing	Silver	401-1468-1-ND	.53	.49	.45	—	—	—	KSC411G70SH
140gF	Soft 5.2mm	Gullwing	Silver	401-1777-1-ND◆	.51	.48	.44	401-1777-2-ND◆	1,000	282.60	KSC411G 70SH LFS
140gF	Soft 5.2mm	J-Lead	Silver	401-1469-1-ND	.53	.49	.45	—	—	—	KSC411J70SH
140gF	Soft 5.2mm	J-Lead	Silver	401-1778-1-ND◆	.51	.48	.44	401-1778-2-ND◆	1,000	282.60	KSC411J 70SH LFS
160gF	Soft 5.2mm	Gullwing	Silver	CKN9198CT-ND◆§	.50	.47	.43	CKN9198TR-ND◆§	1,000	279.00	KSC422G 70SH LFS
160gF	Soft 5.2mm	Gullwing	Silver	401-1779-1-ND◆	.49	.46	.42	401-1779-2-ND◆	1,000	271.80	KSC421G 70SH LFS
160gF	Soft 5.2mm	J-Lead	Silver	401-1780-1-ND◆	.75	.70	.58	401-1780-2-ND◆	1,000	271.80	KSC421J 70SH LFS
160gF	Soft 5.2mm	J-Lead	Silver	CKN9199CT-ND◆§	.46	.43	.39	CKN9199TR-ND◆§	1,000	254.00	KSC422J 70SH LFS
170gF	Soft 5.2mm	Right Angle	Silver	401-1781-ND†◆	.75	.70	.58	—	—	—	KSC421V30ACT2.95LFS
300gF	Soft 5.2mm	Gullwing	Silver	401-1783-1-ND◆	.50	.47	.43	401-1783-2-ND◆	1,000	279.00	KSC441G 70SH LFS
300gF	Soft 5.2mm	J-Lead	Silver	401-1784-1-ND◆	.50	.47	.43	401-1784-2-ND◆	1,000	279.00	KSC441J 70SH LFS
300gF	Soft 5.2mm	J-Lead	Gold	401-1785-1-ND◆	.73	.68	.62	401-1785-2-ND◆	1,000	442.80	KSC443J 70SH LFG
320gF	Soft 5.2mm	J-Lead	Silver	CKN9197CT-ND◆§	.52	.48	.44	CKN9197TR-ND◆§	1,000	288.00	KSC442J 70SH LFS
320gF	Soft 5.2mm	Gullwing	Silver	CKN9196CT-ND◆§	.52	.48	.44	CKN9196TR-ND◆§	1,000	288.00	KSC442G 70SH LFS
160gF	Rocker 5.6mm	Gullwing	Silver	401-1907-1-ND◆‡	.53	.50	.46	401-1907-2-ND◆‡	1,000	295.20	KSC521G ROHS
160gF	Hard 7.7mm	Gullwing	Silver	401-1786-1-ND◆	.56	.52	.48	401-1786-2-ND◆	750	233.55	KSC621GLFS
160gF	Hard 7.7mm	J-Lead	Silver	401-1748-1-ND◆	.51	.48	.44	401-1748-2-ND◆	750	233.55	KSC621J LFS
300gF	Hard 7.7mm	Gullwing	Silver	401-1787-1-ND◆	.58	.54	.49	401-1787-2-ND◆	750	238.95	KSC641GLFS
300gF	Hard 7.7mm	J-Lead	Silver	401-1788-1-ND◆	.58	.54	.49	401-1788-2-ND◆	750	238.95	KSC641JLFS
Sound Tuneable Tact Switches — RoHS Compliant											
340gF	Soft 5.2mm	Gullwing	Silver	CKN9200CT-ND	.56	.52	.48	CKN9200TR-ND	1,000	310.00	KSC441G ST1 LFS
340gF	Soft 5.2mm	J-Lead	Silver	CKN9201CT-ND	.56	.52	.48	CKN9201TR-ND	1,000	310.00	KSC441J ST1 LFS
340gF	Soft 5.2mm	Gullwing	Silver	CKN9202CT-ND	.58	.54	.49	CKN9202TR-ND	1,000	320.00	KSC441G ST2 LFS
340gF	Soft 5.2mm	J-Lead	Silver	CKN9203CT-ND	.58	.54	.49	CKN9203TR-ND	1,000	320.00	KSC441J ST2 LFS

◆ ***RoHS Compliant*** † Bulk § Long Life Version ‡ KSC5 Not Sealed

K5V Series Illuminated Tact Switches

RoHS COMPLIANT

Features: • Gold plated dome contact • Excellent ergonomics • High bright LEDs
Specifications: • Function: Momentary action, SPDT **Mechanical:** • Operating Force: 400gF • Operating Life: 25,000 operations **Electrical:** • Power Minimum/Maximum: 0.02VA / 1.0VA • Voltage Minimum/Maximum: 20mVDC ~ 32VDC • Current Minimum/Maximum: 0.1mA ~ 100mA Environmental: • Operating Temperature: -40°C ~ 85°C

Fig. 1

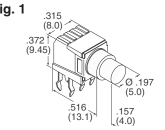

Fig. 2

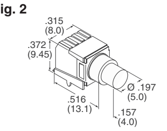

Fig. 3

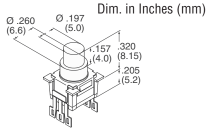

Fig.	Color	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 330	C&K Part No.
			1	25	100			
Right Angle, Thru-Hole								
1	Green	401-1657-ND	8.94	8.26	7.57	—	—	K5V1GN43T
	Red	401-1658-ND	9.20	8.50	7.79	—	—	K5V1RD43T
	Yellow-Green	401-1659-ND	7.23	6.68	6.13	—	—	K5V1YG43T
Right Angle, SMT								
2	Blue	401-1852-1-ND	11.61	10.72	9.83	401-1852-2-ND	2121.77	K5V1BU43G
	Green	401-1662-1-ND	10.03	9.27	8.49	401-1662-2-ND	1833.68	K5V1GN43G
	White	401-1855-1-ND	9.69	8.95	8.21	401-1855-2-ND	1771.31	K5V1WH43G
	Yellow-Green	401-1664-1-ND	8.52	7.87	7.22	—	—	K5V1YG43G
Panel Mount								
3	Blue	401-1853-ND	6.76	6.01	5.26	—	—	K5V1BU43P
	Yellow-Green	401-1653-ND	6.68	6.17	5.66	—	—	K5V1YG43P

KS Series Key Switches

RoHS COMPLIANT

Contact Material:

Q Movable Contacts: Beryllium copper, silver plated 25mA maximum @ 50 VAC/DC maximum Stationary Contacts and All Terminals: Copper alloy, silver plated

B Contacts: Gold Terminals: Gold Rating: 25mA maximum @ 50 VAC/DC maximum

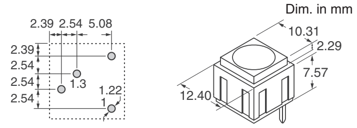

Circuit	Switch Function	Contact Material	Cap Color	Digi-Key Part No.	Price Each			C&K Part No.
					1	25	100	
KS Momentary Key Switches (Non-Washable)								
SPST	Momentary (N/O)	B	White	CKN4077-ND	2.79	2.24	1.77	KS11R21CBD
		Q	White	CKN4078-ND	1.81	1.45	1.15	KS11R21CQD
		Q	White	CKN1590-ND	3.20	2.56	2.03	KS11R21CQE
		B	Black	CKN4079-ND	2.79	2.24	1.77	KS11R22CBD
		Q	Black	CKN4080-ND	1.81	1.45	1.15	KS11R22CQD
		Q	Black	CKN1591-ND	3.20	2.56	2.03	KS11R22CQE
		B	Red	CKN4081-ND	2.86	2.29	1.82	KS11R23CBD
		Q	Red	CKN4082-ND	1.81	1.45	1.15	KS11R23CQD
		Q	Blue	CKN1592-ND	2.14	1.72	1.36	KS11R27CQD
SPDT	Momentary	Q	White	CKN1593-ND	2.60	2.09	1.65	KS12R21CQD
		B	Black	CKN1594-ND	4.46	3.58	2.83	KS12R22CBE
		Q	Black	CKN1595-ND	2.60	2.09	1.65	KS12R22CQD
		Q	Black	CKN1596-ND	3.34	2.68	2.12	KS12R22CQE

RACON Short-Travel Keyswitches

Digi-Reel® RoHS COMPLIANT

RACON short-travel keyswitches offer an extremely high switching reliability while needing very little space. They can be arranged as single keys, in rows or key blocks.

Specifications: • Operating Temperature: -40°C ~ 80°C • Operating Life: 1,000,000 cycles • Maximum Rated Voltage: 42V • Maximum Rated Current: 100mA

Fig. 1

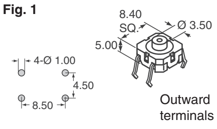

Fig. 2

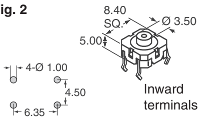

Fig. 3

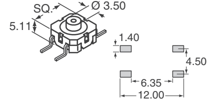

Fig. 4

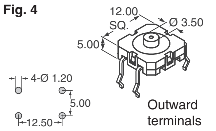

Fig. 5

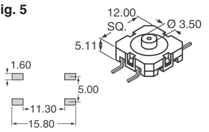

Fig. 6

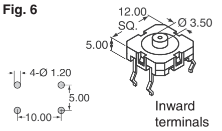

Fig. 7

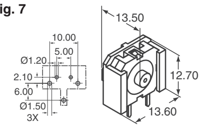

Fig. 8

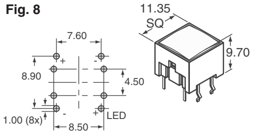

Fig. 9

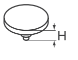

Fig. 10

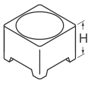

Fig.	Description	Digi-Key Part No.	Price Each			C&K Part No.
			1	25	100	
Switches						
1	RACON 8, 330gF, Outward Terminals	CKN9361-ND	2.05	1.65	1.30	1.14100.5010000
2	RACON 8, 330gF Inward Terminals	CKN9362-ND	1.97	1.58	1.26	1.14100.5020000
3	RACON 8, 330gF, Surface Mount	CKN9363CT-ND†	1.62	1.50	1.38	1.14100.5030000
	RACON 8, 330gF, Surface Mount	CKN9363TR-ND◊	898.00/1,000			1.14100.5030000
4	RACON 12, 360gF, Outward Terminals	CKN9364-ND	2.01	1.62	1.28	1.14001.5010000
5	RACON 12, 360gF Inward Terminals	CKN9365-ND	2.01	1.62	1.28	1.14001.5020000
6	RACON 12, 360gf, Surface Mount	CKN9366CT-ND†	1.81	1.68	1.54	1.14001.5030000
	RACON 12, 360gf, Surface Mount	CKN9366TR-ND◊	753.30/750			1.14001.5030000
7	RACON 12V, 360gF, PCB Mount	CKN9367-ND	2.73	2.19	1.74	1.14001.5050000
8	RACON 12i, 330gF, Red LED	CKN9368-ND	14.40	11.52	9.12	1.14001.5510000
	RACON 12i, 330gF, Green LED	CKN9205-ND	14.40	11.52	9.12	1.14001.5520000
	RACON 12i, 330gF, Yellow LED	CKN9206-ND	13.85	11.08	8.78	1.14001.5530000
Accessories						
9	Plunger, H=6.5mm x 8mm dia.	CKN9369-ND	.32	.26	.21	5.46167.3010209
	Plunger, H=7mm x 8mm dia.	CKN9207-ND	.32	.26	.21	5.46167.0900209
	Plunger, H=6.5mm x 11.5mm dia.	CKN9208-ND	.31	.25	.20	5.46167.2270209
	Plunger, H=7mm x 11.5mm dia.	CKN9370-ND	.32	.26	.21	5.46167.0420209
	Plunger, H=7mm x 14.5 dia.	CKN9209-ND	.31	.25	.20	5.46168.0420209
	Plunger, H=9.7mm x 14.5mm dia.	CKN9371-ND	.31	.25	.20	5.46168.0430209
	Plunger, H=7mm x 19mm dia.	CKN9210-ND	.31	.25	.20	5.46169.0420209
	Plunger, H=12.5mm x 19mm dia.	CKN9372-ND	.32	.26	.21	5.46169.0440209
10	Plunger, H=7mm x 14mm square	CKN9211-ND	.26	.21	.17	5.46001.0570209
	Plunger, H=12.5mm x 14mm square	CKN9373-ND	.25	.20	.16	5.46001.0590209

† Cut Tape ◊ Tape and Reel

KSB and KSF Series Low Profile Tact Switches, (Washable)

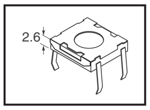

Flat miniature tact switch designed for automatic or manual insertion. Sealed against immersion.

Circuit: SPST-NO **Switching:** • Voltage Maximum: 50VDC • Current Maximum: 50mA **Contact Resistance:** KSF: 50mΩ; KSB: 100mΩ **Contact Material:** Silver plated **Operating Temperature:** -40°C ~ 90°C

MARK II Version is improved seal version for immersed cleaning.

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
7.4mm square, 130gF, Mark II Sealed	401-1911-ND	.38	.35	.32	KSF0M212LFT

KSI Series Sealed Tact Switches

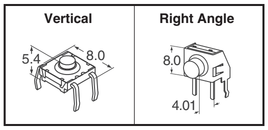

Specifications:

Function: Momentary action **Contact Arrangement:** 1 make contact = SPST-NO **Distance Between Button Centers (minimum):** 7.62mm (0.300") **Terminals:** PC pins **Electrical: Maximum Power:** 1VA **Maximum Voltage:** 50VDC **Minimum Voltage:** 20mV **Maximum Current:** 50mA **Minimum Current:** 1mA **Operating Temperature:** -40°C ~ 90°C **Contact Material:** Silver plated

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Vertical, 110gF, Totally Sealed	401-1796-ND◆	.70	.65	.60	KSI0M011LFT
Right Angle, 110gF, Totally Sealed	401-1798-ND◆	.90	.83	.76	KSI0V011LFT
Vertical, 300gF, Totally Sealed, with Ground	401-1491-ND	.88	.82	.75	KSI1M411

◆ ***RoHS Compliant***

KSJ Series Tact Switches, with Spherical Actuator, (Washable)

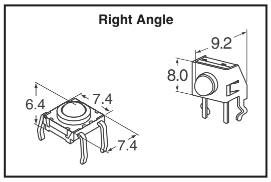

The KSJ long travel is a miniature tact switch using a single pole, normally open contact and is equipped with a spherical actuator. This new version is specially designed for applications where the actuation force can be off center approximately ±30° with regard to vertical and even be parallel to the PCB.

Circuit: SPST-NO

Switching: • Voltage Maximum: 50VDC • Current Maximum: 50mA

Operating Life: 10^5 **Operating Force:** 100 Grams

Operating Temperature: Silver: -40°C ~ 90°C; Gold: -40°C ~ 125°C

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
300gF, Flux Sealed, Gold	401-1804-ND	1.40	1.29	1.19	KSJ0M431LFT
300gF, Flux Sealed, Gold, Right Angle	401-1805-ND	2.11	1.95	1.79	KSJ0V431LFT

KST Series SMT Rubber Tact Switches

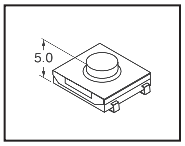

The KST is a miniature tact switch with a rubber actuator used to provide a tactile effect similar to the feeling given by the conductive rubber products and a travel which is more than twice the standard tact switch travel of the KSA or KSC product line.

Circuit: SPST-NO

Switching: • Voltage Maximum: 30V • Current Maximum: 50mA

Life Expectancy: 100,000 cycles

Operating Temperature: -40°C ~ 125°C

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R Pricing‡ 1,000	C&K Part No.
Tact Switch - 6.2mm sq. - 200gF, Gullwing	401-1103-1-ND	.40	.37	.34	—	KST221G
Tact Switch - 6.2mm sq. - 200gF, Gullwing	401-1847-1-ND◆	.75	.69	.64	414.00	KST221GLFS
Tact Switch - 6.2mm sq. - 200gF, J-Type	401-1848-1-ND◆	.75	.69	.64	414.00	KST221JLFS
Tact Switch - 6.2mm sq. - 350gF, Gullwing	401-1849-1-ND◆	.80	.74	.68	441.00	KST241GLFS
Tact Switch - 6.2mm sq. - 350gF, J-Type	401-1850-1-ND◆	.80	.74	.68	441.00	KST241JLFS

QSA Series 4-Way Switch

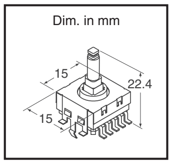

Features:
- Operational life is 100,000 operations • Excellent tactile feel • Only actuate one direction at a time • Provides logic level control **Applications:** • Seat Adjustments • Industrial controls • Mirror adjustment • Home entertainment • Multi-function steering wheel

Mechanical:
- Actuation Force: 3.5 ±1N

Electrical:
- Switching Power Maximum: 0.20VA • Minimum/Maximum Switching Voltage: (VDC) 20mV/30V • Minimum/Maximum Switching Current: 1mA/50mA
- Operating Temperature: -40°C ~ 85°C

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
4-Way Switch, SMT Version, 350gF	401-1597-ND	11.42	9.14	7.24	QSA4S 3.5N H1 G8

NEW! K5AT Series Lighted SMT Tact Switches

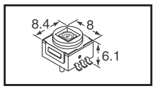

Features: • High Bright LEDs • Gold plated dome contact offering superior contact reliability in time • Excellent ergonomics: sharp tactile feel and audible click • Reduced space usage on board "2 in 1" **Typical Applications:** • Server, storage • Network infrastructure • Telecom • Medical **Electrical Specifications:** • Power Minimum/Maximum: 0.02VA/1.0VA • Voltage Min./Max.: 20mVdc ~ 32Vdc • Current Minimim/Maximum 0.1mA ~ 100mA **Environmental Specifications:** • Operating Temperature: -40°C ~ 125°C

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R Pricing‡ 900	C&K Part No.
Green Illuminated, Mom., 400gF	CKN9416CT-ND	14.63	13.50	12.38	7290.00	K5ATGN43GP
White Illuminated, Mom., 400gF	CKN9417CT-ND	14.63	13.50	12.38	7290.00	K5ATWH43GP

‡ For Tape and Reel part number, change CT-ND to TR-ND.

K6 Series Tactile Switches

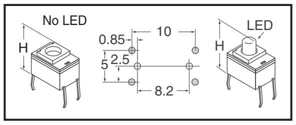

Follow the trend toward miniaturization. Distinctive tactile feel. High switching reliability. Custom designed button required. **Function:** Momentary action **Circuit:** SPST-NO **Switching:** • Voltage Maximum: 30VDC • Current Maximum: 100mA **Contact Resistance:** 50mΩ **Total Travel:** 1.5mm **Contact Material:** Gold over nickel **Operating Temperature:** -40°C ~ 85°C

Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
300gF, No LED	8.4	401-1163-ND◆	1.88	1.51	1.20	K6B 1.5 3N
300gF, Green-LED Illumination	12.3	401-1590-ND	2.45	2.27	2.08	K6BL GN 1.5 3N L306
300gF, Red-LED Illumination	12.3	401-1167-ND◆	2.49	2.00	1.58	K6BL RD 1.5 3N L352
300gF, Yellow-LED Illumination	12.3	401-1169-ND◆	2.49	2.00	1.58	K6BL YE 1.5 3N L327
500gF, No LED	8.4	401-1589-ND	2.04	1.89	1.73	K6B 1.5 5N
500gF, Yellow-LED Illumination	12.3	401-1170-ND	2.49	2.00	1.58	K6BL YE 1.5 5N L327

◆ ***RoHS Compliant***

K12 Series Tactile Switches

Successful in measurement and control equipment, industrial electronics and automotive applications. **Function:** Momentary action **Circuit:** SPST-NO **Switching:** • Voltage Maximum: 30VDC • Current Maximum: 100mA **Contact Resistance:** 50mΩ **Contact Material:** Gold over nickel **Operating Temperature:** -40°C ~ 85°C

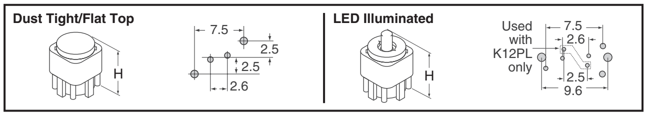

Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Round, 500gF, Dust Tight (Process Sealed)	12.0	401-1159-ND	4.50	3.60	2.85	K12C 1 5N
Round, 250gF, Dust Tight (Process Sealed)	12.0	401-1158-ND◆	4.50	3.60	2.85	K12C BK 1 2.5N
Flat Top, 250gF, Cap, Black	11.0	401-1156-ND	2.97	2.38	1.89	K12P BK 1.5 2.5N
Flat Top, 500gF, Cap, Black	11.0	401-1157-ND◆	2.49	2.00	1.58	K12P BK 1.5 5
Flat Top, 250gF, Cap, Black	14.5	401-1587-ND	3.21	2.97	2.72	K12P BK 2 2.5N
250gF, Red-LED Illumination	14.5	401-1588-ND	4.18	3.87	3.54	K12PL RD 1.5 2.5N
350/700gF, Twin Contacts	14.5	401-1586-ND	3.30	2.64	2.09	K12GO NT 1.5 3.5-7N

◆ ***RoHS Compliant***

ED and EDM Series Snap Domes

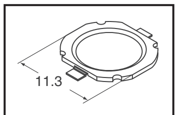

SMT Version Shown

ED Series:
Disc contact is a momentary tact switch with short travel and good tactile feedback. Discs are a snap dome short travel dome contact for mounting directly on a PCB. Designed for low profile applications where end users want to use a customized overlay to go over these domes. PC mount leads or SMT terminals.

Function: Momentary action **Circuit:** SPST-NO **Switching:** • Voltage Maximum: Silver/Gold 100VAC/DC • Current Maximum: Silver: 100mA; Gold: 50mA **Contact Resistance:** Silver: 10mΩ; Gold: 15mΩ **Total Travel:** 0.3mm **Operating Temperature:** -25°C ~ 70°C

EDM Series:
Discs are higher performance longer travel snap domes specifically designed for applications such as aircraft instrumentation, radio keypads or other demanding applications. PC mount leads or SMT terminals.

Function: Momentary action **Circuit:** SPST-NO **Switching:** • Voltage Maximum: 100VDC • Current Maximum: 50mA **Contact Resistance:** 15mΩ **Total Travel:** 0.4mm **Operating Temperature:** -55°C ~ 85°C

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
ED Series Snap Domes					
With PC Pins, 240gF, Flux Sealed, Gold Plating	401-1920-ND◆	3.31	2.65	2.10	EDGAC0LFS
With PC Pins, 240gF, Fully Sealed, Gold Plating	401-1921-ND◆	3.30	2.64	2.09	EDGAC1LFS
With PC Pins, 240gF, Flux Sealed, Silver Plating	401-1014-ND	1.15	.93	.73	ED S AC 0
With PC Pins, 240gF, Flux Sealed, Silver Plated	401-1924-ND◆	1.32	1.06	.84	EDSAC0LFS
With SMT Tabs, 240gF, Flux Sealed, Gold Plating	401-1922-ND◆	3.17	2.54	2.01	EDGSC0LFS
With SMT Tabs, 240gF, Fully Sealed, Gold Plating	401-1923-ND◆	3.30	2.64	2.09	EDGSC1LFS
With SMT Tabs, 240gF, Fully Sealed, Silver Plating	401-1927-ND◆	1.45	1.16	.92	EDSSC1LFS
EDM Series Snap Domes — RoHS Compliant					
With Tabs, 450gF, Gold Plating	401-1946-ND	6.05	4.84	3.83	EDM 450 G SC LFG
With Tabs, 450gF, Silver Plating	401-1947-ND	5.65	4.52	3.58	EDM 450 S SC LFS
With PC Pins, 450gF, Gold Plating	401-1948-ND	6.05	4.84	3.83	EDM 450 G AC LFS
With PC Pins, 450gF, Silver Plating	401-1949-ND	5.14	4.11	3.26	EDM 450 S AC LFS
With PC Pins, 650gF, Gold Plating	401-1950-ND	7.13	5.71	4.52	EDM 650 G AC LFS
With Tabs, 650gF, Gold Plating	401-1951-ND	7.13	5.71	4.52	EDM 650 G SC LFG
With Tabs, 650gF, Silver Plating	401-1952-ND	6.66	5.34	4.22	EDM 650 S SC LFS
With PC Pins, 650gF, Silver Plating	401-1953-ND	6.66	5.34	4.22	EDM 650 S AC LFS

◆ ***RoHS Compliant***

KSA Series Sealed Tact Switches

Dim. in mm

Miniature tact switch is single pole, single throw, normally open and designed for automatic or manual insertion.

Circuit: SPST-NO **Switching:** Current Maximum: Silver: 50mA; Gold: 10mA **Voltage Maximum:** 50VDC **Contact Resistance:** 50mΩ **Total Travel:** .03~0.5mm **Operating Life:** 10^5 **Operating Temperature:** Silver: -40°C ~ 90°C; Gold: -40°C ~ 125°C

MARK II Versions are washable

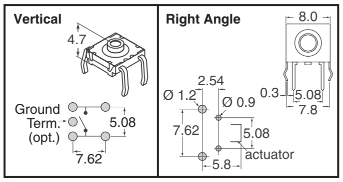

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Vertical, 6.2mm sq., 130gF, Mark II Sealed, Long Life, Gold	401-1812-ND	.43	.39	.34	KSA0M332LFT
Vertical, 6.2mm sq., 300gF, Mark II Sealed, Gold	401-1815-ND	.63	.58	.54	KSA0M432LFT
Vertical, 6.2mm sq., 500gF, Mark II Sealed	401-1817-ND	.48	.45	.41	KSA0M512LFT
Vertical, 7.4mm sq., 130gF, Mark I Sealed	401-1807-ND	.51	.48	.44	KSA0M211LFT
Vertical, 7.4mm sq., 130gF, Mark I Sealed, Long Life	401-1809-ND	.51	.48	.44	KSA0M311LFT
Vertical, 7.4mm sq., 130gF, Mark I Sealed	401-1807-ND	.51	.48	.44	KSA0M211LFT
Vertical, 7.4mm sq., 130gF, Mark I Sealed, Long Life	401-1809-ND	.51	.48	.44	KSA0M311LFT
Vertical, 7.4mm sq., 130gF, Mark I Sealed, Long Life, Gold	401-1811-ND	.64	.60	.55	KSA0M331LFT
Vertical, 7.4mm sq., 130gF, with Ground	401-1823-ND	.59	.55	.51	KSA1M211LFT
Vertical, 7.4mm sq., 130gF, Long Life, with Ground	401-1824-ND	.59	.55	.51	KSA1M311LFT
Vertical, 7.4mm sq., 130gF, Mark I Sealed, Gold, with Ground	401-1825-ND	.83	.77	.71	KSA1M331LFT
Vertical, 7.4mm sq., 300gF, Mark I Sealed	401-1813-ND	.51	.48	.44	KSA0M411LFT
Vertical, 7.4mm sq., 300gF, with Ground	401-1826-ND	.59	.55	.51	KSA1M411LFT
Vertical, 7.4mm sq., 500gF, Mark I Sealed	401-1816-ND	.56	.52	.48	KSA0M511LFT
Right Angle, 8.0mm sq., 130gF, Mark I Sealed	401-1818-ND	.65	.60	.55	KSA0V211LFT
Right Angle, 8.0mm sq., 130gF, Mark I Sealed, Long Life	401-1819-ND	.65	.60	.55	KSA0V311LFT

KSA Series Snap-On Switch Caps (Mark I Version Only)

Snap-on buttons for vertical KSA switches snap over and are held in place by the KSA body. All buttons must be mounted after the soldering and cleaning process. Buttons are able to be screen printed for custom legend appearances. (Switch is sold separately.)

Fig. 1

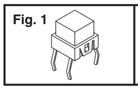

Fig. 2

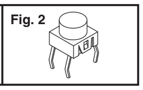

Color	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Fig. 1 — 10mm Square Cap					
Black	401-1237-ND	.42	.39	.36	BTNK0190
Red	401-1238-ND	.42	.39	.36	BTNK0140
Light Grey	401-1239-ND	.42	.39	.36	BTNK0120
Dark Grey	401-1240-ND	.42	.39	.36	BTNK0110
Yellow	401-1241-ND	.62	.57	.53	BTNK0130
Blue	401-1242-ND	.42	.39	.36	BTNK0160
Green	401-1243-ND	.57	.53	.49	BTNK0150
Ivory	401-1244-ND	.64	.60	.55	BTNK0180
Grey-Blue	401-1245-ND	.42	.39	.36	BTNK0170
Fig. 2 — 8mm Round Cap					
Black	401-1246-ND	.42	.39	.36	BTNK0290
Red	401-1247-ND	.42	.39	.36	BTNK0240
Light Grey	401-1248-ND	.42	.39	.36	BTNK0220
Dark Grey	401-1249-ND	.42	.39	.36	BTNK0210
Yellow	401-1250-ND	.42	.39	.36	BTNK0230
Blue	401-1251-ND	.42	.39	.36	BTNK0260
Green	401-1252-ND	.42	.39	.36	BTNK0250
Ivory	401-1253-ND	.42	.39	.36	BTNK0280
Grey-Blue	401-1254-ND	.42	.39	.36	BTNK0270

KSR Series Low Profile Tact Switches

The KSR Series Switches are a miniature tact switch, single pole, normally open contact. The extremely small overall dimensions make the KSR fit perfectly in small applications where density of components is a major constraint. **Applications:** Cellular phones, recorders, computers, pointers, radios, medical instrumentation and car entry remotes **Circuit:** SPST-NO **Switching:** Voltage Minimum/Maximum: 20mV/32V **Current:** Silver: 50mA; Gold: 50mA **Operating Temperature:** Silver: -40°C ~ 85°C, Gold: -40°C ~ 125°C **Contact Material:** Gold and Silver Plated

Dim. in mm

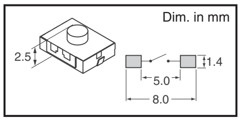

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R Pricing‡ 2,500	C&K Part No.
180gF, Gullwing, SMD, Silver	401-1702-1-ND◆	.53	.49	.45	293.40/M	KSR211GLFS
200gF, Gullwing, SMD, Silver	401-1703-1-ND◆	.52	.49	.45	289.80/M	KSR221GLFS
200gF, Gullwing, SMD, Gold	401-1704-1-ND◆	.66	.62	.57	367.20/M	KSR223GLFG
200gF, Gullwing, SMD, Gold	401-1705-1-ND◆◊ ***NEW!***	.97	.90	.83	538.00/M	KSR223GNCLFG
300gF, Gullwing, SMD, Silver	401-1706-1-ND◆	.53	.49	.45	293.40/M	KSR231GLFS
450gF, Gullwing, SMD, Silver	401-1707-1-ND◆	.53	.49	.45	293.40/M	KSR251GLFS
450gF, Gullwing, SMD, Gold	401-1708-1-ND◆	.77	.72	.66	428.40/M	KSR253GLFG
450gF, Gullwing, SMD, Silver	401-1520-1-ND	.50	.47	.43	—	KSR251G
Long Life Version — RoHS Compliant						
180gF, Gullwing, SMD, Silver	CKN9186CT-ND§	.54	.50	.46	297.00/M	KSR212G LFS
180gF, Gullwing, SMD, Gold	CKN9187CT-ND§	.73	.68	.63	407.00/M	KSR214G LFG
200gF, Gullwing, SMD, Silver	CKN9188CT-ND§	.50	.46	.43	275.00/M	KSR222G LFS
200gF, Gullwing, SMD, Gold	CKN9189CT-ND§	.68	.63	.58	376.00/M	KSR224G LFG
300gF, Gullwing, SMD, Silver	CKN9190CT-ND§	.52	.49	.45	290.00/M	KSR232G LFS
300gF, Gullwing, SMD, Gold	CKN9191CT-ND§	.72	.66	.61	396.00/M	KSR234G LFG
450gF, Gullwing, SMD, Silver	CKN9192CT-ND§	.55	.51	.47	302.00/M	KSR252G LFS
450gF, Gullwing, SMD, Gold	CKN9193CT-ND§	.75	.69	.64	414.00/M	KSR254G LFG

◆ ***RoHS Compliant*** ◊ Normally Closed ‡ For Tape and Reel part number, change 1-ND to 2-ND.
§ For Tape and Reel part number, change CT-ND to TR-ND.

TPC Tri-Directional Scan Switches

Fig. 1

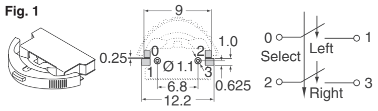

Fig. 2

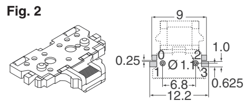

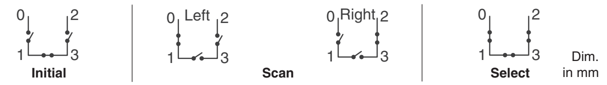

Dim. in mm

The TPC is a side-actuated miniature switch with normally open contacts providing tactile feedback. Rotation of the actuator closes two individual contacts (left or right), while pushing down in central position simultaneously closes the two contacts. **Applications:** Mobile phones, pagers, personal data assistants (PDAs), handheld electronic devices, digital cameras, camcorders, and communication equipment **Specifications: • Maximum Voltage:** 50V **• Minimum/Maximum Current:** 1mA/50mA **• Life Expectancy:** 100,000 operations **• Bounce:** <10ms **• Operating Temperature:** -40°C ~ 125°C

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R Pricing† 2,000	C&K Part No.
1	SMT Switch with Select	401-1264-1-ND	1.93	1.79	1.64	1069.20/M	TPC1133GLFG
2	3 in 1 Tact Switch	401-1618-1-ND	1.61	1.49	1.36	—	TPC2133GLFG
Cap Switch for TPC2133		CKN9415-ND◊ ***NEW!***	.38	.30	.24	—	BTN CLIPSABLE TPC 2133

† For Tape and Reel part number, change 1-ND to 2-ND. ◊ Bulk

TPA Series SMT Navigation Switches

Dim. in mm

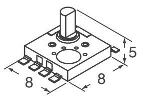

Actuating the shaft in the up, down, right or left direction individually closes four momentary contacts which provide the scanning function. **Switching:** • Voltage Maximum: 24V • Current Maximum: Silver: 50mA; Gold: 10mA **Operating Temperature:** Silver: -40°C ~ 85°C; Gold: -40°C ~ 110°C **Life Expectancy:** 200,000 operations *Push to select = 400gF*

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing† 1,000	C&K Part No.
Momentary, 2-Directional with Selection, 185gF, Silver, Gullwing	401-1277-1-ND	1.29	1.20	1.10	—	TPA311GLFS
Momentary, 4-Directional with Selection, 185gF, Silver, Gullwing	401-1130-1-ND	1.34	1.24	1.14	743.40	TPA511GLFS
Cap Switch Black Plastic for TPA	401-1997-ND◊	.85	.68	.54	—	BOUTON TPA

† For Tape and Reel part number, change 1-ND to 2-ND. ◊ Bulk

E-SWITCH™ Navigation Switches

JS1200, JS1300 and JS5208 Multi-Directional

JS1200

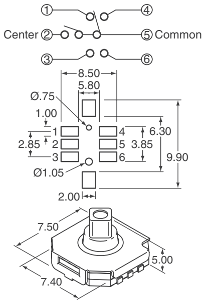

JS1300

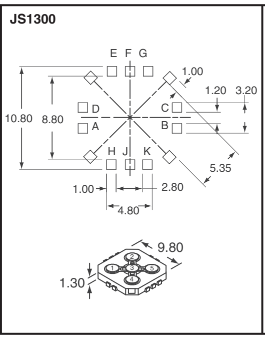

JS5208

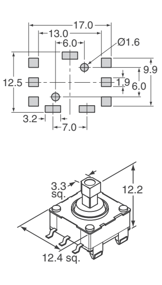

JS1200 Series: Mechanical Specifications: • Mechanical Life: 200,000 actuations in any direction • Typical Travel: Push: 0.15+/-.01mm, Tilt: 0.20+/-.01 • Switching Function: Momentary **Electrical Specifications:** • Contact Rating: 12VDC, 20mA • Contact Resistance (Initial maximum): 500mΩ • Insulation Resistance: 100MΩ • Dielectric Strength: 100VAC **Environmental Specifications:** • Operating Temperature: -25°C ~ 70°C

JS1300 Series: Mechanical Specifications: • Mechanical Life: 100,000 actuations • Typical Travel: Center: 0.19 +/- 0.15mm, Tilt: 0.35+/-0.15mm • Switching Function: Momentary **Electrical Specifications:** • Contact Rating: 12VDC, 50mA • Contact Resistance (Initial maximum): 100mΩ • Insulation Resistance: 100MΩ • Dielectric Strength: 250VAC **Environmental Specifications:** • Operating Temperature: -25°C ~ 70°C

JS5208 Series: Specifications: • Contact Rating: 20mA, 15VDC • Life Expectancy: 100,000 actuations • Contact Resistance: (Initial maximum) 100mΩ • Operating Force: Tilt: 280+/-100 grams, Push: 500+/-150 grams • Dielectric: 250VAC • Operating Temperature: -20°C ~ 70°C • Travel: Tilt: 8°, Push: 1.0 +/-0.2mm

Function	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	E-Switch Part No.
JS1200 Series								
With Select and Boss	EG4357CT-ND	2.63	2.10	1.89	EG4357TR-ND	750	1001.25	JS1200AAQ
With Select no Boss	EG4358CT-ND	2.63	2.10	1.89	EG4358TR-ND	1,500	1335.00/M	JS1200ABQ
JS1300 Series								
With Select no Boss	EG4408CT-ND	2.33	1.86	1.68	EG4408TR-ND	2,500	1107.00/M	JS1300AQ
JS5208 Series								
With Select and Boss	EG4561-ND	3.40	3.06	2.61	—	—	—	JS5208

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

KSL Series Tact Switches (Washable)

MARK II Versions are improved seal versions for immersed cleaning.

Specifications: • **Circuit:** SPST-NO • **Switching:** Voltage Maximum: 50VDC • **Current Maximum:** Silver: 50mA; Gold: 10mA • **Contact Resistance:** 50mΩ • **Contact Material:** Silver plated • **Operating Temperature:** Silver: -40°C ~ 90°C; Gold: -40°C ~ 125°C

Dim. in mm

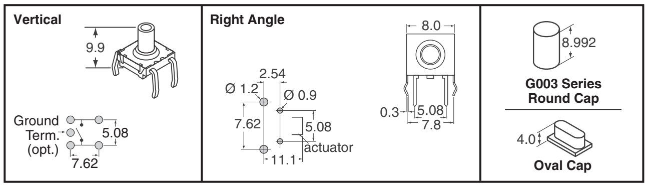

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Vertical, 130gF, Totally Sealed	401-1828-ND◆	.61	.57	.52	KSL0M211LFT
Vertical, 130gF, Mark II Sealed	401-1829-ND◆	.60	.56	.51	KSL0M212LFT
Vertical, 130gF, Mark II Sealed, Long Life	401-1831-ND◆	.60	.56	.51	KSL0M312LFT
Vertical, 300gF, Totally Sealed	401-1833-ND◆	.61	.57	.52	KSL0M411LFT
Vertical, 300gF, Mark II Sealed	401-1834-ND◆	.60	.56	.51	KSL0M412LFT
Vertical, 300gF, Flux Sealed, Gold	401-1835-ND◆	.76	.71	.65	KSL0M431LFT
Right Angle, 130gF, Totally Sealed, Long Life	401-1839-ND◆	.79	.73	.67	KSL0V311LFT
Right Angle, 300gF, Totally Sealed	401-1841-ND◆	.79	.73	.67	KSL0V411LFT
Vertical, 130gF, Totally Sealed, with Ground	401-1843-ND◆	.70	.65	.60	KSL1M211LFT
Vertical, 500gF, Totally Sealed, with Ground	401-1845-ND◆	.76	.71	.65	KSL1M511LFT
Oval Cap, 9.5mm x 5.6mm, Black	401-1424-ND	.42	.39	.36	BTNK0390

◆ ***RoHS Compliant***

KSS Series Miniature Side Actuated Tact Switches

The KSS is a normally open, momentary, SPST miniature switch. It is mainly dedicated to applications with a high density of components.

Specifications: • **Circuit:** SPST-NO • **Switching:** Maximum Voltage: 50V • **Minimum/Maximum Current:** Silver: 1mA/50mA; Gold: 1mA/10mA • **Life Expectancy:** 10^5 operations • **Operating Temperature:** Silver: -40°C ~ 85°C; Gold: -40°C ~ 125°C

Dim. in mm

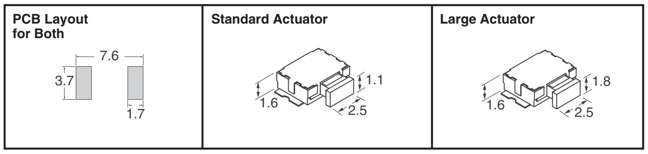

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing† 3,000	C&K Part No.
Standard Actuator, 200gF, Gullwing	401-1097-1-ND	.44	.41	.38	244.80/M	KSS221GLFS
Standard Actuator, 250gF, Gullwing	401-1098-1-ND	.44	.41	.38	244.80/M	KSS231GLFS
Standard Actuator, 250gF, Gullwing, Gold	401-1698-1-ND	.57	.53	.44	315.00/M	KSS233GLFG
Standard Actuator, 400gF, Gullwing	401-1099-1-ND	.48	.45	.41	264.60/M	KSS241GLFS
Large Actuator, 200gF, Gullwing	401-1100-1-ND	.51	.48	.44	282.60/M	KSS321GLFS
Large Actuator, 250gF, Gullwing	401-1101-1-ND	.51	.48	.44	282.60/M	KSS331GLFS
Large Actuator, 400gF, Gullwing	401-1102-1-ND	.53	.50	.46	295.20/M	KSS341GLFS
Standard Actuator, 200gF, Gullwing, Gold	401-1522-1-ND	.57	.53	.49	315.00/M	KSS223GLFG
Standard Actuator, 400gF, Gullwing, Gold	401-1523-1-ND	.60	.56	.52	334.80/M	KSS243GLFG
Large Actuator, 200gF, Gullwing, Gold	401-1524-1-ND	.64	.60	.55	—	KSS323GLFG
Large Actuator, 400gF, Gullwing, Gold	401-1525-1-ND	.66	.62	.57	—	KSS343GLFG

† For Tape and Reel part number, change 1-ND to 2-ND.

RF 19 and RF 15 Short-Travel Keyswitches

Specifications: • Maximum Rated Voltage: Gold: 42V Silver: 50V • Maximum Rated Current: Gold 100mA; Silver 250mA • Operating Temperature Range: -25°C ~ 70°C • Operating Life: 1,000,000 operations minimum

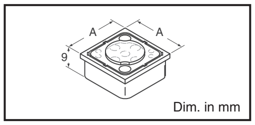

Dim. in mm

Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
RF 19 Gold, PCB	19.05	CKN9212-ND	4.24	3.40	2.69	3.14001.0010000
RF 19 Silver, PCB	19.05	CKN9213-ND	3.71	2.97	2.35	3.14001.0060000
RF 15 Gold, PCB	15.00	CKN9374-ND	4.24	3.40	2.69	3.14100.0010000
RF 15 Silver, PCB	15.00	CKN9375-ND	3.71	2.97	2.35	3.14100.0060000

KMR Series Microminiature Tact Switches for SMT

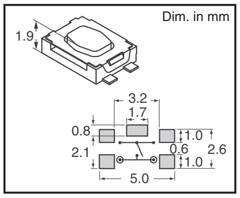

Compatible with lead free soldering. For use in cellular phones, computers and industrial electronics. KMRs compact size and 4 actuation force options make the switch ideal for extremely small applications.

Specifications:
• **Circuit:** SPST-NO • **Maximum Voltage:** 50VDC • **Maximum Current DC:** Silver: 50mA; Gold: 10mA • **Operating Temperature:** Silver: -40°C ~ 85°C; Gold: -40°C ~ 125°C

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing† 7,000	C&K Part No.
100gF, Gullwing, Silver Contacts	401-1426-1-ND	.45	.42	.38	248.40/M	KMR211GLFS
200gF, Gullwing, Silver Contacts	401-1427-1-ND	.45	.42	.38	248.40/M	KMR221GLFS
200gF, Gullwing, Gold Contacts	401-1428-1-ND	.52	.49	.45	289.80/M	KMR223GLFG
300gF, Gullwing, Silver Contacts	401-1429-1-ND	.49	.46	.42	273.60/M	KMR231GLFS
300gF, Gullwing, Gold Contacts	401-1430-1-ND	.57	.53	.49	—	KMR233GLFG
400gF, Gullwing, Silver Contacts	401-1431-1-ND	.49	.46	.42	273.60/M	KMR241GLFS
400gF, Gullwing, Gold Contacts	401-1432-1-ND	.57	.53	.49	316.80/M	KMR243GLFG

† For Tape and Reel part number, change 1-ND to 2-ND.

KMX Series Microminiature Tact Switch for SMT

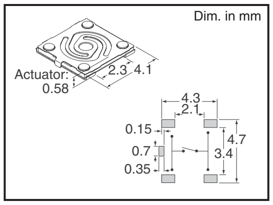

Allows higher board density with compact SMT switch for ultra low profile environment: cell phone keypads, key fob, white goods, medical and military

Features:
• Ultra low profile 0.58mm • Sharp Tactile Feel plus Audible Click
• 250k Cycles

Description	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape & Reel Pricing† 10,000	C&K Part No.
160gF, Gullwing, Silver, No Actuator	401-1957-1-ND	.25	5.78	21.18	138.60/M	KMX111G
160gF, Gullwing, Gold, No Actuator	401-1959-1-ND	.33	7.65	28.05	183.60/M	KMX113G
220gF, Gullwing, Silver, No Actuator	401-1960-1-ND	.25	5.78	21.18	138.60/M	KMX121G
220gF, Gullwing, Gold, No Actuator	401-1961-1-ND	.33	7.65	28.05	183.60/M	KMX123G
160gF, Gullwing, Silver, 1.4mm Actuator	401-1610-1-ND	.25	5.78	21.18	115.50/M	KMX211G
160gF, Gullwing, Gold, 1.4mm Actuator	401-1611-1-ND	.33	7.65	28.05	153.00/M	KMX213G
220gF, Gullwing, Gold, 1.4mm Actuator	401-1613-1-ND	.33	7.65	28.05	153.00/M	KMX223G

† For Tape and Reel part number, change 1-ND to 2-ND.

MD and MDP Series Pushbutton Switches

Dim. in mm

MD Series: Small momentary key switch with a protective rubber actuator

Specifications: • **Circuit:** SPST • **Switching:** Voltage Maximum: 100V AC/DC; Current Maximum: Silver: 100mA AC/DC; Gold: 50mA AC/DC • **Operating Temperature:** -25°C ~ 70°C

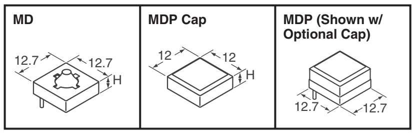

MDP Series: Small momentary key switch equipped with a button: can be PC mounted
Specifications: • **Circuit:** SPST • **Switching:** Voltage Maximum: 100V AC/DC; Current Maximum: Silver: 100mA AC/DC; Gold: 50mA AC/DC • **Operating Temperature:** -25°C ~ 70°C

Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
MD Series						
With Rubber Actuator, 260gF, Gold Plated	5	401-1931-ND	3.73	2.99	2.37	MDGLFS
With Rubber Actuator, 260gF, Silver Plated	5	401-1932-ND	2.60	2.08	1.65	MDSLFS
MDP Series						
No Cap, 240gF, Gold Plated	4.1	401-1933-ND	3.73	2.99	2.37	MDPGLFS
No Cap, 240gF, Silver Plated	4.1	401-1934-ND	2.60	2.08	1.65	MDPSLFS

Description	Digi-Key Part No.	Pricing 1	25	100	C&K Part No.
Switch Caps for MDP Series					
White, 12mm square, Finger Recessed	401-1175-ND•	.46	9.18	29.07	BTN MDP 00
Red, 12mm square, Finger Recessed	401-1177-ND•	.29	5.88	18.62	BTN MDP 40
Blue, 1 2mm square, Finger Recessed	401-1178-ND•	.29	5.88	18.62	BTN MDP 60
Black, 12mm square, Finger Recessed	401-1179-ND•	.29	5.88	18.62	BTN MDP 90

• Not recommended for new design

C&K DIGITAST
SE Series Key Switches

This series is the most versatile electronic switch for printed circuit boards, especially when used with dual in-line packages. Vibration free, short smooth travel through pivoted button tops. Available as momentary button switch as well as push-push action with over-travel release. Micro SPDT system with tactile feeling. Two integral molded "standoff" pins for alignment on PC boards.

Dimensions in mm

Specifications:

- **Circuit:** SPDT
- **Switching:** Voltage Maximum: 24VAC; Current Maximum: 10mA DC
- **Operating Life:** OA: 5,000,000 operations; EE: 500,000 operations
- **Switching Travel:** 0.0591

Narrow Body

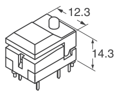

Wide Body

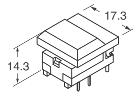

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Narrow Body					
Momentary Action, Black Cap, No LED	401-1107-ND	4.10	3.65	3.20	SER BK AU OA
Momentary Action, Blue Cap, No LED	401-1229-ND	4.10	3.65	3.20	SER BU AU OA
Momentary Action, Green Cap, No LED	401-1230-ND	4.10	3.65	3.20	SER GN AU OA
Momentary Action, Grey Cap, No LED	401-1109-ND	4.10	3.65	3.20	SER GY AU OA
Momentary Action, Red Cap, No LED	401-1111-ND	4.10	3.65	3.20	SER RD AU OA
Momentary Action, White Cap, No LED	401-1231-ND	4.10	3.65	3.20	SER WH AU OA
Momentary Action, Yellow Cap, No LED	401-1232-ND	4.10	3.65	3.20	SER YE AU OA
Momentary Action, Black Cap, Green LED	401-1115-ND	5.84	5.20	4.55	SERL BK GN 7.62 AU OA
Momentary Action, Black Cap, Red LED	401-1113-ND	5.44	4.84	4.23	SERL BK RD 7.62 AU OA
Momentary Action, Grey Cap, Red LED	401-1117-ND	5.44	4.84	4.23	SERL GY RD 7.62 AU OA
Wide Body					
Momentary Action, Black Cap, No LED	401-1122-ND	4.10	3.65	3.20	SET BK AU OA
Momentary Action, Grey Cap, No LED	401-1124-ND	4.10	3.65	3.20	SET GY AU OA
Momentary Action, Blue Cap, No LED	401-1233-ND	4.10	3.65	3.20	SET BU AU OA
Momentary Action, Red Cap, No LED	401-1234-ND	4.10	3.65	3.20	SE T RD AU OA
Momentary Action, White Cap, No LED	401-1235-ND	4.10	3.65	3.20	SE T WH AU OA
Momentary Action, Yellow Cap, No LED	401-1236-ND	4.10	3.65	3.20	SE T YE AU OA
Alternate Action, Black Cap, Green LED	401-1670-ND	9.50	8.45	7.39	SETL BK GN 7.62 AU EE
Momentary Action, Black Cap, Red LED	401-1125-ND	5.44	4.84	4.23	SETL BK RD 7.62 AU OA
Momentary Action, Grey Cap, Red LED	401-1128-ND	5.44	4.84	4.24	SE T L GY RD 7.62 AU OA

D6 Series Pushbutton Switches

Square Cap

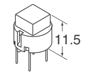

Round Cap

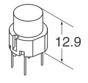

Square Button

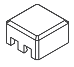

PCB Layout

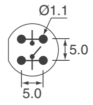

Flat Cap

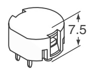

Plunger

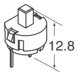

The D6 is an open keyswitch specially designed for digital electronic controls. Comes complete with colored cap already attached.

Specifications: • **Circuit:** SPST • **Switching:** Current Maximum: 100mA AC • **Dielectric Strength:** 1000VAC • **Contact Resistance:** ≤100mΩ • **Switching Travel:** 0.0301 • **Contact Material:** Silver Plated • **Operating Temperature:** -20°C ~ 85°C • **Life Expectancy:** F1 version – 250k operations; F2 version – 100k operations

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Square Cap					
White, Momentary Action, 130gF	401-1963-ND	.99	.79	.63	D6C00 F1 LFS
White, Momentary Action, 250gF	401-1982-ND	.99	.79	.63	D6C00 F2 LFS
Grey, Momentary Action, 130gF	401-1964-ND	.99	.79	.63	D6C10 F1 LFS
Grey, Momentary Action, 250gF	401-1983-ND	.99	.79	.63	D6C10 F2 LFS
Yellow, Momentary Action, 130gF	401-1965-ND	.99	.79	.63	D6C30 F1 LFS
Yellow, Momentary Action, 250gF	401-1984-ND	.99	.79	.63	D6C30 F2 LFS
Red, Momentary Action, 130gF	401-1966-ND	.99	.79	.63	D6C40 F1 LFS
Red, Momentary Action, 250gF	401-1985-ND	.99	.79	.63	D6C40 F2 LFS
Green, Momentary Action, 130gF	401-1967-ND	.99	.79	.63	D6C50 F1 LFS
Green, Momentary Action, 250gF	401-1986-ND	.99	.79	.63	D6C50 F2 LFS
Blue, Momentary Action, 130gF	401-1968-ND	.99	.79	.63	D6C60 F1 LFS
Blue, Momentary Action, 250gF	401-1987-ND	.99	.79	.63	D6C60 F2 LFS
Black, Momentary Action, 130gF	401-1969-ND	.99	.79	.63	D6C90 F1 LFS
Black, Momentary Action, 250gF	401-1988-ND	.99	.79	.63	D6C90 F2 LFS
White, Momentary Action, 130gF	401-1972-ND	.99	.79	.63	D6R00 F1 LFS
White, Momentary Action, 250gF	401-1989-ND	.99	.79	.63	D6R00 F2 LFS
Grey, Momentary Action, 130gF	401-1973-ND	.99	.79	.63	D6R10 F1 LFS
Grey, Momentary Action, 250gF	401-1990-ND	.99	.79	.63	D6R10 F2 LFS
Yellow, Momentary Action, 130gF	401-1974-ND	.99	.79	.63	D6R30 F1 LFS
Round Cap					
Yellow, Momentary Action, 250gF	401-1991-ND	.99	.79	.63	D6R30 F2 LFS
Red, Momentary Action, 130gF	401-1975-ND	.99	.79	.63	D6R40 F1 LFS
Red, Momentary Action, 250gF	401-1992-ND	.99	.79	.63	D6R40 F2 LFS
Green, Momentary Action, 130gF	401-1976-ND	.99	.79	.63	D6R50 F1 LFS
Green, Momentary Action, 250gF	401-1993-ND	.99	.79	.63	D6R50 F2 LFS
Blue, Momentary Action, 130gF	401-1900-ND	.94	.75	.60	D6R60 LFS
Blue, Momentary Action, 130gF	401-1977-ND	.99	.79	.63	D6R60 F1 LFS
Blue, Momentary Action, 250gF	401-1994-ND	.99	.79	.63	D6R60 F2 LFS
Black, Momentary Action, 130gF	401-1978-ND	.99	.79	.63	D6R90 F1 LFS
Black, Momentary Action, 250gF	401-1995-ND	.99	.79	.63	D6R90 F2 LFS
Flat Cap					
Black, Momentary Action, 130gF	401-1970-ND	.99	.79	.63	D6F90 F1 LFS
Black, Momentary Action, 250gF	401-2020-ND	.99	.79	.63	D6F90 F2 LFS
Plunger					
Black, Momentary Action, 130gF	401-1971-ND	.99	.79	.63	D6L90 F1 LFS
Black, Momentary Action, 250gF	401-2019-ND	.99	.79	.63	D6L90 F2 LFS
Square Button					
Grey, For D6C Series	401-1979-ND	.54	.43	.35	BTND610F
Red, For D6C Series	401-1980-ND	.54	.43	.35	BTND640F
Red, For D6C Series	401-1580-ND	.57	.53	.49	BTND640
Blue, For D6C Series	401-1981-ND	.54	.43	.35	BTND660F
Black, For D6C Series	401-1996-ND	.54	.43	.35	BTND690F

RTE Series Miniature Rotary Switches

Dimensions in mm

Fig. 1 Gullwing

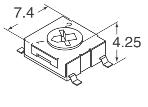

Fig. 2 PC Mount

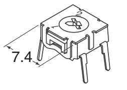

Fig. 3 4 x 7.5mm Shaft

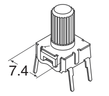

Fig. 4 Button Actuator

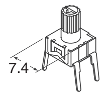

Fig. 5 Right Angle

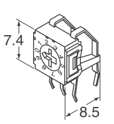

RTE02 Layout

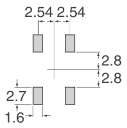

RTE03/10/16 Layout

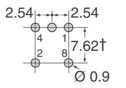

† Right Angle = 5.08

Specifications:
• **Switching:** Voltage Maximum: RTE02 and RTE03: 50V DC; RTE10 and RTE16: 30V DC • **Current:** 100mA • **Contact Resistance:** RTE02 and RTE03: 100mΩ; RTE10 and RTE16: 150mΩ • **Operating Temperature:** -25°C ~ 85°C • **Storage Temperature:** -40°C ~ 85°C

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
	2 Position Selectors - SPDT					
1	Gullwing, Silver Plating	401-1022-1-ND†	2.04	1.89	1.73	RTE0200G01
	Gullwing, Silver Plating	401-1863-1-ND◆†	2.04	1.89	1.73	RTE0200G05
	Gullwing, Silver Plating	401-1863-2-ND◆§	1412.50/1,250			RTE0200G05
	Gullwing, Gold Plating	401-1407-1-ND†	2.64	2.44	2.24	RTE0200G03
	Gullwing, Gold Plating	401-1935-1-ND◆†	2.64	2.44	2.24	RTE0200G04
2	PC Mount, Silver Plating	401-1864-ND◆	1.77	1.42	1.13	RTE0200N05
	PC Mount, Gold Plating	401-1408-5-ND	2.29	1.83	1.45	RTE0200N03
4	Button Actuator, Silver Plating	401-1866-ND◆	2.07	1.66	1.31	RTE0202N05
	Button Actuator, Gold Plating	401-1411-5-ND	2.50	2.00	1.59	RTE0202N03
	3 Position Selectors - SP3T					
1	Gullwing, Silver Plating	401-1962-1-ND◆†	1.49	1.38	1.26	RTE0300G05
	Gullwing, Silver Plating	401-1962-2-ND◆§	815.81/1,250			RTE0300G05
	Gullwing, Gold Plating	401-1413-1-ND†	2.73	2.52	2.31	RTE0300G03
	Gullwing, Gold Plating	401-1941-1-ND◆†	2.73	2.52	2.31	RTE0300G04
3	4 x 7.5mm Shaft, Gold Plating	401-1944-5-ND◆	2.60	2.09	1.65	RTE0301N04
	Decimal Code - BCD — RoHS Compliant					
2	PC Mount, Gold Plating	401-1871-5-ND	3.04	2.44	1.93	RTE1000N14
5	Right Angle, Gold Plating	401-1873-5-ND	3.07	2.46	1.95	RTE1000V14
	Hexadecimal Code - HEX — RoHS Compliant					
1	Gullwing, Gold Plating	401-1877-1-ND†	3.58	3.31	3.03	RTE1600G44
4	Button Actuator, Gold Plating	401-1883-5-ND	2.27	1.82	1.44	RTE1602N44

◆ *RoHS Compliant* † Cut Tape § Tape and Reel

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Optional Switch Caps for RTE Series — RoHS Compliant					
Red, Open Window Style for Button Actuator Switch Only	401-1040-ND	.28	.23	.18	BTNRTE40
Green, Open Window Style for Button Actuator Switch Only	401-1041-ND	.28	.23	.18	BTNRTE50
Black, Open Window Style for Button Actuator Switch Only	401-1042-ND	.28	.23	.18	BTNRTE90

Tyco Electronics **Alcoswitch**
Authorized Distributor

Pushbutton Switches

Alcoswitch Pushbutton Switches feature high temperature plastics. They have silver clad and gold plated contacts to satisfy the requirements of logic level and power switching applications. A variety of caps, guards and boot seals are available.

Dimensions in mm

Fig.	Circuit	Action	Contact Rating	Features	Digi-Key Part No.	Price Each 1	25	50	Alcoswitch Part No.
1	SPST	Mom - NO	0.4VA	Black Square Actuator	450-1367-ND	3.69	2.98	2.86	TP11CGPC004
	SPST	Mom - NO	0.4VA	Red Square Actuator	450-1368-ND	4.50	3.63	3.48	TP11CGPC204
	SPST	Mom - NO	0.4VA	Black Round Actuator	450-1467-ND	3.35	2.70	2.60	TPA11CGPC004
	SPST	Mom - NO	0.4VA	Red Round Actuator	450-1371-ND	4.31	3.48	3.34	TPA11CGPC204
2	SPST	Mom - NO	0.4VA	Black Square Actuator	450-1369-ND	3.57	2.88	2.76	TP11CGRA004
	SPST	Mom - NO	0.4VA	Red Square Actuator	450-1370-ND	4.62	3.73	3.58	TP11CGRA204
	SPST	Mom - NO	0.4VA	Black Round Actuator	450-1372-ND	4.84	3.90	3.75	TPA11CGRA004
	SPST	Mom - NO	0.4VA	Red Round Actuator	450-1373-ND	3.94	3.18	3.05	TPA11CGRA204
3	SPST	Mom - NO	0.4VA	Unthreaded Bushing - Black Actuator	450-1374-ND	4.22	3.40	3.27	TPB11CGPC004
	SPST	Mom - NO	0.4VA	10-48 Bushing - Black Actuator	450-1377-ND	7.55	6.50	5.97	TPC11CGPC004
	SPST	Mom - NO	0.4VA	Unthreaded Bushing - Red Actuator	450-1379-ND	5.95	4.80	4.61	TPD11CGPC204
4	SPDT	Mom	0.4VA	Unthreaded Bushing - Black Actuator	450-1346-ND	6.17	4.98	4.78	TPB11FGVRA004
5	SPST	Mom - NO	0.4VA	Unthreaded Bushing - Black Actuator	450-1376-ND	4.68	3.78	3.63	TPB11CGRA004
	SPST	Mom - NO	0.4VA	Unthreaded Bushing - Red Actuator	450-1375-ND	6.20	5.00	4.80	TPB11CGRA204
	SPDT	Mom	0.4VA	Unthreaded Bushing - Black Actuator	450-1345-ND	5.89	4.75	4.56	TPB11FGRA004
	SPST	Mom - NO	0.4VA	10-48 Bushing - Black Actuator	450-1378-ND	8.24	7.09	6.51	TPC11CGRA004
	SPST	Mom - NO	0.4VA	Unthreaded Bushing - Black Actuator	450-1380-ND	5.92	4.78	4.59	TPD11CGRA004
	SPST	Mom - NO	0.4VA	1/4 x 40 Bushing - Black Actuator	450-1381-ND	7.64	6.57	6.03	TPF11CGRA004
6	SPDT	Alt/Act	6A	THD Bushing uses Fig. 1 Cap Below	450-1499-ND	11.20	9.63	8.85	MPA106D04
	SPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1504-ND	11.20	9.63	8.85	MPA106F04
	DPDT	Alt/Act	6A	THD Bushing uses Fig. 1 Cap Below	450-1505-ND	12.00	10.32	9.48	MPA206N04
	DPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1506-ND	12.00	10.32	9.48	MPA206R04
	DPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1537-ND	13.99	12.03	11.05	MPA206RPC04
	3PDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1507-ND	19.21	16.52	15.17	MPA306F04
	4PDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1508-ND	23.11	19.87	18.25	MPA406R04
	SPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1509-ND*	11.20	9.63	8.85	MPE106F04
	DPDT	Mom	6A	THD Bushing uses Fig. 1 Cap Below	450-1510-ND*	12.00	10.32	9.48	MPE206R04
	4PDT	Alt/Act	6A	THD Bushing uses Fig. 1 Cap Below	450-1511-ND*	23.11	19.87	18.25	MPE406N04
7	SPST	Mom - NO	3A	THD Bushing with Black Cap	450-1434-ND	6.32	5.10	4.90	MPA103C04
	SPDT	Mom (Tactile)	3A	THD Bushing with Black Cap	450-1435-ND	10.63	9.14	8.40	MPA103F04
8	SPDT	Alt/Act	6A	THD Bushing with Black Cap	450-1464-ND	11.20	9.63	8.85	MPG106D04
	SPDT	Mom	6A	THD Bushing with Black Cap	450-1500-ND	11.20	9.63	8.85	MPG106F04
	DPDT	Alt/Act	6A	THD Bushing with Black Cap	450-1465-ND	13.99	12.03	11.05	MPG206N04
	DPDT	Mom	6A	THD Bushing with Black Cap	450-1512-ND	13.99	12.03	11.05	MPG206R04
	DPDT	Mom	6A	THD Bushing with Black Cap	450-1539-ND	13.99	12.03	11.05	MPG206RPC04
	3PDT	Alt/Act	6A	THD Bushing with Black Cap	450-1513-ND	19.21	16.52	15.17	MPG306D04
	3PDT	Mom	6A	THD Bushing with Black Cap	450-1514-ND	19.21	16.52	15.17	MPG306F04
	4PDT	Mom	6A	THD Bushing with Black Cap	450-1515-ND	23.11	19.87	18.25	MPG406R04
9	SPST	Mom - NC	0.5A	THD Bushing with Black Cap	450-1097-ND	7.56	6.10	5.86	MSPF101B
	SPST	Mom - NO	0.5A	THD Bushing with Red Cap	450-1098-ND	6.76	5.45	5.24	MSPF101C
10	SPST	Mom - NC	1.0VA	THD Bushing with Black Cap	450-1545-ND	27.96	24.04	22.08	MSPM101B104
	SPST	Mom - NO	1.0VA	THD Bushing with Red Cap	450-1432-ND	28.27	24.31	22.32	MSPM101C104
11	SPST	Mom - NC	3A	THD Bushing - Black Actuator	450-1428-ND	5.39	4.35	4.18	MSP103B04
	SPST	Mom - NO	3A	THD Bushing - Black Actuator	450-1429-ND	5.70	4.60	4.42	MSP103C004
	SPST	Mom - NO	3A	THD Bushing - Red Actuator	450-1430-ND	4.71	3.80	3.65	MSP103C204
12	SPST	Mom - NC	0.5A	THD Bushing - Black Actuator	450-1099-ND	2.57	2.08	2.00	MSPS103B
	SPST	Mom - NO	0.5A	THD Bushing - Red Actuator	450-1110-ND	3.01	2.43	2.33	MSPS103C
	SPST	Mom - NO	0.5A	THD Bushing - Black Actuator	450-1664-ND	2.39	1.93	1.85	MSPS103C0

* Splashproof

Fig. 1

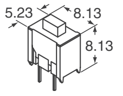

Fig. 2

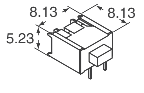

Fig. 3

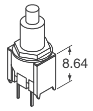

Fig. 4

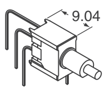

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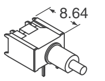

Fig. 6

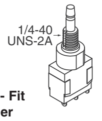

Fig. 7

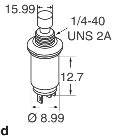

Fig. 8

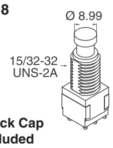

Fig. 9

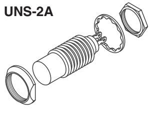

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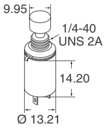

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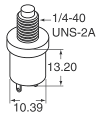

Fig. 12

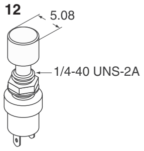

Pushbutton Accessories

Switch Caps: Gloss finish **Bushing Guards:** G12C are chromed brass; remaining are aluminum. **Waterproof Boot Seals:** Fabricated of Neoprene rubber for an environmental seal; Hex nuts are molded in the Neoprene.

Fig.	Description	Color / Type	Use With	Digi-Key Part No.	Price Each 1	25	50	Alcoswitch Part No.
1	Switch Cap, .394" dia, for Snapfit Plunger (Fig. 6) Above	Black	MPS/MSPM/MPE/MPA6	450-1490-ND	1.15	.93	.89	C22004
		Red		450-1492-ND	1.15	.93	.89	C22204
		Green		450-1493-ND	1.15	.93	.89	C22504
	Switch Cap, .590" dia, for Snapfit Plunger (Fig. 6) Above	Black	MPS/MSPM/MPE/MPA6	450-1494-ND	1.43	1.15	1.11	C23004
		Red		450-1495-ND	1.43	1.15	1.11	C23204
2	Bushing Guard 1/4 x 40 THD Smooth Finish	Black/Aluminum	1/4 x 40 THD	450-1063-ND	2.39	1.93	1.85	G12B
	Bushing Guard 1/4 x 40 THD Smooth Finish	Brass	1/4 x 40 THD	450-1064-ND	3.26	2.63	2.52	G12C
	Bushing Guard 1/4 x 40 THD Knurled Finish	Aluminum	1/4 x 40 THD	450-1066-ND	3.26	2.63	2.52	G12KA
	Bushing Guard 1/4 x 40 THD Knurled Finish	Black/Aluminum	1/4 x 40 THD	450-1062-ND	4.03	3.25	3.12	G13KB
	Bushing Guard 1/4 x 40 THD Knurled Finish	Clear/Aluminum	1/4 x 40 THD	450-1150-ND	3.84	3.10	2.98	G13KA
	Bushing Guard 15/32" THD Smooth Finish	Aluminum	MSPF Series	450-1060-ND	5.08	4.10	3.94	G15
3	Waterproof Boot 10-48 THD, H = .276"	Black	TP Series	450-1549-ND	5.83	4.70	4.52	BP1048004
	Waterproof Boot 1/4 x 40 THD, H = .460"	Gray	MSPM/MPA3/MPS/TP	450-1541-ND	5.77	4.65	4.47	BP1440804
	Waterproof Boot 1/4 x 40 THD, H = .300"	Black	MSPMBS/MSPMCS and MSP3/MPA3/TP	450-1551-ND	5.77	4.65	4.47	BPA1440004
	Waterproof Boot 1/4 x 40 THD, H = .460"	Black	MSPM/MPS3/MPA3/TP	450-1556-ND	6.36	5.13	4.92	BP201004
	Waterproof Boot 15/32-32 THD, H = .472"	Black	MSPF/MPG	450-1554-ND	4.93	3.98	3.82	BP1532004
	Waterproof Boot 15/32-32 THD, H = .472"	Red	MSPF/MPG	450-1550-ND	4.93	3.98	3.82	BP1532204
	Waterproof Boot 1/4 x 40 THD, H = .580"	Black	TT, MTA, Gemini	450-1552-ND	5.77	4.65	4.47	B1440004
	Waterproof Boot 1/4 x 40 THD, H = .580"	Gray	TT, MTA, Gemini	450-1553-ND	5.77	4.65	4.47	B1440804

Fig. 1

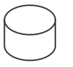

Fig. 2

Dim. in mm

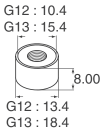

Fig. 3

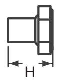

A Series Rocker Switches

Specifications: • Contacts/Terminals: Silver/tin lead • Case Material: Thermoset 94V-0 • Operating Temperature: -20°C ~ 85°C
Characteristics: • Contact Rating: Silver: 5A @ 125VAC • Contact Timing: Break-before-make • Life Expectancy: 30,000 Cycles

Dimensions in mm

Fig.	Circuit	Function	Terminal	Features	Contact Rating	Digi-Key Part No.	Price Each 1	10	25	50	Alcoswitch Part No.
1	SPDT	On-On	Solder Term	Snap-In Black Bezel	5A	450-1519-ND	5.18	4.60	4.18	4.01	A101J51ZQ0004
	SPDT	Mom-Off-Mom				450-1528-ND	6.29	5.59	5.08	4.88	A105J51ZQ0004
	DPDT	On-On				450-1532-ND	5.27	4.81	4.54	4.17	A201J51ZQ0004
	DPDT	On-Off-On				450-1502-ND	5.67	5.18	4.88	4.48	A203J51ZQ0004
2	SPDT	On-On	Right Angle PCB	Black Actuator	5A	450-1517-ND	4.81	4.27	3.88	3.72	A101J1AQ004
3	SPDT	On-On	Right Angle PCB	Black Actuator	5A	450-1518-ND	4.81	4.27	3.88	3.72	A101J1AV2Q004
4	SPDT	On-On	Solder Term	Snap-In Black Bezel	5A	450-1501-ND	5.18	4.60	4.18	4.01	A101J61ZQ0004
	SPDT	On-Off-On				450-1524-ND	5.70	5.06	4.60	4.42	A103J61ZQ0004
	SPDT	Mom-Off-Mom				450-1529-ND	6.29	5.59	5.08	4.88	A105J61ZQ0004

Fig. 1

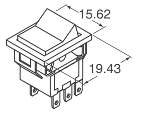

Fig. 2

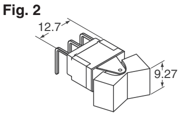

Fig. 3

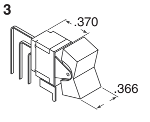

Fig. 4

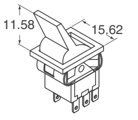

Tyco Electronics

Authorized Distributor

Alcoswitch Tact Switches

Dimensions in mm

Fig. 1

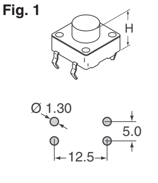

Fig. 2

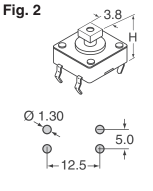

Fig. 3

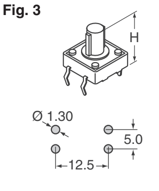

Fig. 4

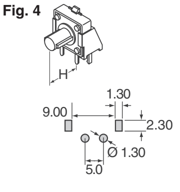

Fig. 5

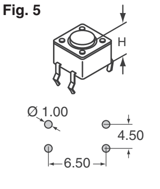

Fig. 6

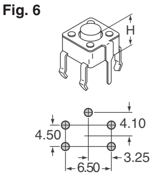

Fig. 7

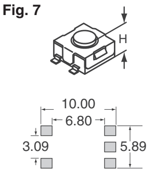

Fig. 8

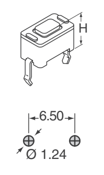

Fig. 9

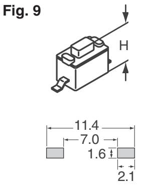

Fig. 10

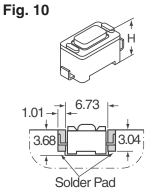

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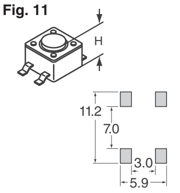

Fig. 12

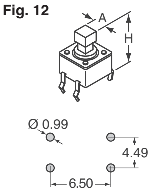

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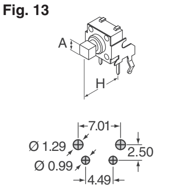

Fig. 14

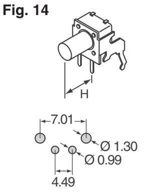

Fig.	Description	Dim. H mm	Digi-Key Part No.	Price Each 1	10	25	Alcoswitch Part No.
1	Tact Switch 12mm, SPST, Momentary, 160GF	4.3	450-1131-ND	.42	.38	.35	FSM100
	Tact Switch 12mm, SPST, 160GF	7.49	450-1157-ND	.49	.44	.40	FSM101
2	Tact Switch 12mm, SPST, SQ Actuator, 160GF	7.3	450-1158-ND	.48	.43	.39	FSM103
3	Tact Switch 12mm with Ext. Actuator, SPST, 160GF	12	450-1128-ND	.48	.43	.39	FSM102
4	Tact Switch 12mm, Rt. Angle with Post Act., SPST, 160GF	11.15	450-1127-ND	.59	.53	.48	FSM104
5	Tact Switch 6mm, 160GF, Black	4.3	450-1649-ND	.19	.17	.16	FSM2JH
	Tact Switch 6mm, 160GF, Black	5.0	450-1650-ND	.20	.18	.16	FSM4JH
	Tact Switch 6mm, 160GF, Black	7.0	450-1652-ND	.24	.22	.20	FSM6JH
	Tact Switch 6mm, 160GF, Black	9.5	450-1653-ND	.24	.22	.20	FSN8JH
	Tact Switch 6mm, 160GF, Black	7.3	450-1647-ND	.24	.22	.20	FSM10JH
	Tact Switch 6mm, 160GF, Black	13.0	450-1642-ND	.21	.19	.18	FSM14JH
	Tact Switch 6mm, 160GF, Black	17.0	450-1643-ND	.26	.23	.21	FSM16JH
	Tact Switch 6mm, 160GF, Black	8.51	450-1644-ND	.24	.22	.20	FSM18JH
6	Tact Switch 6mm, 160GF, Black	4.3	450-1645-ND	.25	.23	.21	FSM1JH
	Tact Switch 6mm, 160GF, Black	7.0	450-1651-ND	.28	.25	.23	FSM5JH
	Tact Switch 6mm with Ground, 160GF, Black ***NEW!***	9.5	450-1688-ND	.28	.25	.23	FSM7JH
	Tact Switch 6mm with Ground, 160GF, White	8.0	450-1171-ND	.54	.49	.44	FSM11J
	Tact Switch 6mm, 160GF, Black	13.0	450-1641-ND	.30	.27	.24	FSM13JH
7	Tact Switch SPST with Ground, SMT, 160GF, Black	3.09	450-1132-ND	.56	.50	.46	FSM1LP

Fig.	Description	Dim. H mm	Digi-Key Part No.	Price Each 1	10	25	Alcoswitch Part No.
7	Tact Switch SPST with Ground, SMT, 260GF, Red	3.09	450-1139-ND	.56	.50	.45	FSM1LPA
8	Tact Switch 6x3.5mm, SPST, 130GF	5.0	450-1646-ND	.35	.32	.29	FSMH
	Tact Switch 6x3.5mm, SPST, 130GF	4.3	450-1665-ND	.28	.25	.23	FSMCH
9	Tact Switch 6x3.5mm, SPST, SMT, 180GF	4.57	450-1140-ND	.60	.54	.49	FSMSM
10	Tact Switch 6x3.5mm, SPST, Board Edge Mount, 100GF	4.32	450-1175-ND	.39	.35	.32	FSMJM
11	Tact Switch 6mm, SMT, 160GF, Black	4.3	450-1130-ND	.37	.33	.30	FSM2JSMA
	Tact Switch 6mm, SMT, 160GF, Black	5.0	450-1129-ND	.41	.37	.33	FSM4JSMA
	Tact Switch 6mm, SMT, 160GF, Blue	7.0	450-1133-ND	.52	.47	.42	FSM6JSMA
12	Tact Switch 6mm, Extended Actuator, Black, A=2.42mm	7.51	450-1654-ND	.27	.24	.22	FSMCDH
	Tact Switch 6mm, Extended Actuator, Black, A=2.80mm	7.51	450-1655-ND	.28	.25	.23	FSMCDAH
13	Tact Switch 6mm, Right Angle, 160GF, A=2.42mm	6.35	450-1177-ND	.39	.35	.32	FSMRACD
	Tact Switch 6mm, Right Angle, 160GF, A=2.80mm	6.35	450-1648-ND	.39	.35	.32	FSMRACDAH
14	Tact Switch 6mm, Right Angle, 160GF	3.15	450-1656-ND	.35	.31	.29	FSMRA1JH
	Tact Switch 6mm, Right Angle, 160GF	3.86	450-1662-ND	.35	.31	.29	FSMRA2JH
	Tact Switch 6mm, Right Angle, 160GF	5.85	450-1657-ND	.35	.31	.29	FSMRA3JH
	Tact Switch 6mm, Right Angle, 160GF	8.35	450-1658-ND	.45	.40	.37	FSMRA4JH
	Tact Switch 6mm, Right Angle, 160GF	6.15	450-1659-ND	.35	.31	.29	FSMRA5JH
	Tact Switch 6mm, Right Angle, 160GF	6.85	450-1660-ND	.39	.35	.32	FSMRA6JH
	Tact Switch 6mm, Right Angle, 160GF	11.85	450-1661-ND	.39	.35	.32	FSMRA7JH

Rocker Switches

TRD Series: Robust Rocker Switches designed for a round hole mounting. All switches are black in color and come complete with mounting nut. Current: 3A @ 125VAC (Silver) and 0.4VA Maximum @ 20VDC (Gold)

PR Series: Current: 16A @ 125VAC 1/3HP, 10A @ 250VAC 1/2HP

PRC Series: Single and double pole power rocker switches designed for snap in panel mounting rated 20A @ 125VAC or 10A @ 250VAC with an IP66 sealed construction offering protection against dust and liquids.

Dimensions in mm

Fig. 1

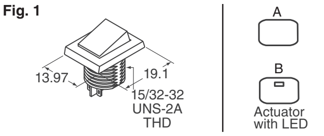

Fig. 2

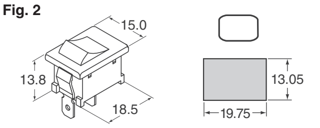

Fig. 3

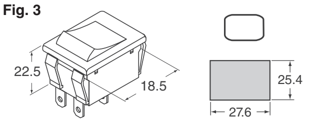

Fig. 4

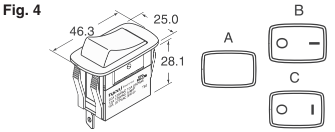

Fig.	Circuit	Function	Terminal	Features	Current	Digi-Key Part No.	Price Each 1	10	25	50	Alcoswitch Part No.
TRD Series — Round Mounting Hole Rocker Switches											
1A	DPDT	On-On	.110" QC	Black Actuator - No Marking	3A - Silver	450-1391-ND	12.23	11.16	10.52	9.66	TRD23N10QC04
	DPDT	On-On	Solder	Black Actuator - No Marking	3A - Silver	450-1390-ND	10.57	9.65	9.09	8.35	TRD23N10WL04
	DPDT	On-On	Solder	Black Actuator - No Marking	.4VA - Gold	450-1014-ND	10.69	9.75	9.19	8.44	TRD21N10WL
	SPDT	On-On	Solder	Black Actuator - No Marking	3A - Silver	450-1389-ND	8.89	8.12	7.65	7.02	TRD13D10WL04
	SPDT	On-On	Solder	Black Actuator - No Marking	.4VA - Gold	450-1016-ND	6.98	6.19	5.63	5.40	TRD11D10WL
	SPDT	Mom-Off-Mom	Solder	Black Actuator - No Marking	.4VA - Gold	450-1154-ND	12.23	11.16	10.52	9.66	TRD11G10WL
	SPDT	On-Off-Mom	Solder	Black Actuator - No Marking	.4VA - Gold	450-1015-ND	11.26	10.27	9.68	8.89	TRD11H10WL
1B	SPDT	On-On	Solder	Black Actuator - Red LED	3A - Silver	450-1466-ND	9.32	8.51	8.02	7.36	TRD13D10WLLR204
	SPDT	On-On	Solder	Black Actuator - Red/Green LED	3A - Silver	450-1393-ND	13.65	12.46	11.74	10.78	TRD13D10WLLR2504
	SPDT	On-On	Solder	Black Actuator - Green LED	3A - Silver	450-1394-ND	11.12	10.14	9.56	8.78	TRD13D10WLLR504
PR Series — Miniature Snap-In Rocker Switches											
2	SPST	On-Off	QC	Black Actuator - No Marking	16A - Silver	450-1040-ND	1.55	1.38	1.25	1.20	PRASA1-16F-BB000
	SPDT	On-Off-On	QC	Black Actuator - No Marking	16A - Silver	450-1028-ND	1.46	1.30	1.18	1.13	PRASD3-16F-BB000
	SPST	On-Off	QC	Red LED Window - No Marking	16A - Silver	450-1041-ND	2.36	2.09	1.90	1.83	PRASC1-16F-BBR00
—	SPST	On-Off	QC	Euro-Style - Black - No Marking	16A - Silver	450-1038-ND	1.89	1.68	1.53	1.47	PRBSA1-16F-BB000
3	DPDT	On-On	QC	Black Actuator - No Marking	16A - Silver	450-1026-ND	3.01	2.67	2.43	2.33	PRDDD1-16F-BB000
	DPST	On-Off	QC	Black Actuator - No Marking	16A - Silver	450-1027-ND	2.73	2.42	2.20	2.12	PRDDA1-16F-BB000
	DPDT	On-Off-On	QC	Black Actuator - No Marking	16A - Silver	450-1021-ND	5.05	4.49	4.08	3.92	PRDDD3-16F-BB000
PRC Series — IP66 Snap-In Rocker Switches											
4A	SPST	On-Off	Screw	Black Actuator - No Marking	20A - N/A	450-1668-ND	4.90	4.35	3.95	3.80	PRCSA1-20S-BB000
	SPST	On-Off	Solder	Black Actuator - No Marking	20A - N/A	450-1669-ND	4.43	3.94	3.58	3.44	PRCSA1-20L-BR000
	SPST	On-Off	QC	Black Actuator - No Marking	20A - N/A	450-1670-ND	4.53	4.02	3.65	3.51	PRCSA1-20F-BR000
	SPST	On-Off	Solder	Black Actuator - No Marking	20A - N/A	450-1673-ND	4.43	3.94	3.58	3.44	PRCSA1-20L-BB000
	SPST	On-Off	QC	Black Actuator - No Marking	20A - N/A	450-1676-ND	4.53	4.02	3.65	3.51	PRCSA1-20F-BB000
	DPST	On-Off	Screw	Black Actuator - No Marking	20A - N/A	450-1679-ND	7.22	6.41	5.83	5.60	PRCDA1-20S-BB000
	DPST	On-Off	Solder	Black Actuator - No Marking	20A - N/A	450-1680-ND	6.42	5.70	5.18	4.97	PRCDA1-20L-BR000
	DPST	On-Off	QC	Black Actuator - No Marking	20A - N/A	450-1681-ND	6.54	5.81	5.28	5.07	PRCDA1-20F-BR000
	DPST	On-Off	Solder	Black Actuator - No Marking	20A - N/A	450-1684-ND	6.42	5.70	5.18	4.97	PRCDA1-20L-BB000
	DPST	On-Off	QC	Black Actuator - No Marking	20A - N/A	450-1687-ND	6.54	5.81	5.28	5.07	PRCDA1-20F-BB000
4B	SPST	On-Off	Screw	Black Actuator	20A - White	450-1667-ND	4.90	4.35	3.95	3.80	PRCSA1-20S-BB0BW
	SPST	On-Off	Solder	Black Actuator	20A - White	450-1672-ND	4.53	4.02	3.65	3.51	PRCSA1-20L-BB0BW
	SPST	On-Off	QC	Black Actuator	20A - White	450-1675-ND	4.87	4.32	3.93	3.77	PRCSA1-20F-BB0BW
	DPST	On-Off	Screw	Black Actuator	20A - White	450-1678-ND	7.22	6.41	5.83	5.60	PRCDA1-20S-BB0BW
	DPST	On-Off	Solder	Black Actuator	20A - White	450-1683-ND	6.45	5.72	5.20	5.00	PRCDA1-20L-BB0BW
	DPST	On-Off	QC	Black Actuator	20A - White	450-1686-ND	6.88	6.11	5.55	5.33	PRCDA1-20F-BB0BW
4C	SPST	On-Off	Screw	Black Actuator	20A - White	450-1666-ND	4.90	4.35	3.95	3.80	PRCSA1-20S-BB0CW
	SPST	On-Off	Solder	Black Actuator	20A - White	450-1671-ND	4.53	4.02	3.65	3.51	PRCSA1-20L-BB0CW
	SPST	On-Off	QC	Black Actuator	20A - White	450-1674-ND	4.56	4.05	3.68	3.53	PRCSA1-20F-BB0CW
	DPST	On-Off	Screw	Black Actuator	20A - White	450-1677-ND	7.22	6.41	5.83	5.60	PRCDA1-20S-BB0CW
	DPST	On-Off	Solder	Black Actuator	20A - White	450-1682-ND	6.45	5.72	5.20	5.00	PRCDA1-20L-BB0CW
	DPST	On-Off	QC	Black Actuator	20A - White	450-1685-ND	6.60	5.86	5.33	5.12	PRCDA1-20F-BB0CW

Series 88 Sealed Keypads

Versatile keypads that work indoors or outdoors.

Fig. 1

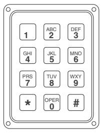

Fig. 2

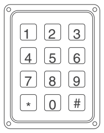

Fig. 3

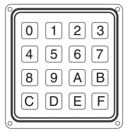

Fig. 4

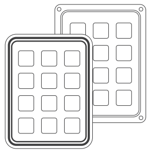

Grayhill Series 88 keypads are fully sealed keypads for use indoors or outdoors that offer a fully sealed snap-dome contact with an operational life of 3 million operations per key. Various colored graphic overlays are available or you can create your own keypad by using 3 items: (1) a blank keyboard; (2) the clear window overlay; (3) a sheet of legend transfers. Optional panel seal gasket provides a dust and water weather seal between your keypad and your equipment panel.

Materials and Finishes: • **Housing:** ABS polycarbonate, black • **Graphic Overlay:** Polyester • **Contact Dome:** Stainless steel, selectively gold plated • **Terminals:** Copper alloy, CDA No. 725, Tin-lead plated

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
	Series 88 Keypads					
1	12-Key Keypad with Black housing; White keys and Black lettering	GH5012-ND	25.54	24.13	19.16	88AB2-143
2	12-Key Keypad with Black housing; White keys and Blue lettering	GH5013-ND◆	25.54	24.13	19.16	88AB2-152
	12-Key Keypad with Black housing; Blue keys and White lettering	GH5014-ND◆	25.54	24.13	19.16	88AB2-172
3	16-Key Keypad with Black housing, Blue/White keys and Black/Blue lettering	GH5015-ND◆	29.51	27.88	22.14	88BB2-052
	16-Key Keypad with Black housing, Blue keys and White lettering	GH5016-ND◆	29.51	27.88	22.14	88BB2-072
	16-Key Keypad with Black housing, Red keys and White lettering	GH5017-ND◆	29.51	27.88	22.14	88BB2-082
	Series 88 Clear Key Keypads — Customize Your Own Keypad Layout — RoHS Compliant					
4	12-Key Keypad with Blank keys for use with Legend sheets below	GH5018-ND	20.27	19.15	15.21	88AB2
	16-Key Keypad with Blank keys for use with Legend sheets below	GH5019-ND	22.54	21.29	16.91	88BB2
	20-Key Keypad with Blank keys for use with Legend sheets below	GH5020-ND	30.03	28.37	22.53	88JB2
—	Legend Sheet, Small Print lettering for Blank Keys, dry transfer type	GH5021-ND	4.01	3.79	3.01	87-DT-2096-088
	Legend Sheet, Medium Print lettering for Blank Keys, dry transfer type	GH5022-ND	4.01	3.79	3.01	87-DT-2096-125
	Legend Sheet, Large Print lettering for Blank Keys, dry transfer type	GH5023-ND	4.01	3.79	3.01	87-DT-2096-187
	Legend Sheet, Medium Print lettering for Blank Keys, self-adhesive type	GH5024-ND	5.66	5.35	4.25	87AC2046
4	Clear Protective Overlay for 12-Key Keypad (protects your customized lettering)	GH5025-ND	18.62	17.59	13.97	88-101
	Clear Protective Overlay for 16-Key Keypad (protects your customized lettering)	GH5026-ND	16.32	15.42	12.24	88-001
	Clear Protective Overlay for 20-Key Keypad (protects your customized lettering)	GH5027-ND	16.92	15.98	12.69	88-201
	Panel Seal Gaskets for Series 88 Keypads — RoHS Compliant					
—	Optional Panel Gasket Seal for all 12-Key Series 88 Keypads - Subpanel Mount	GH5028-ND	1.44	1.36	1.08	88M2001-2
	Optional Panel Gasket Seal for all 16-Key Series 88 Keypads - Subpanel Mount	GH5029-ND	1.47	1.39	1.11	88M2009-2
	Optional Panel Gasket Seal for all 20-Key Series 88 Keypads - Subpanel Mount	GH5030-ND	1.53	1.45	1.15	88M2019-1
	Optional Panel Gasket Seal for all 12-Key Series 88 Keypads - Top Panel Mount	GH5031-ND	1.81	1.71	1.36	88M2012-1
	Optional Panel Gasket Seal for all 16-Key Series 88 Keypads - Top Panel Mount	GH5032-ND	1.88	1.78	1.42	88M2015-1
	Optional Panel Gasket Seal for all 20-Key Series 88 Keypads - Top Panel Mount	GH5033-ND	1.93	1.83	1.45	88M2018-1

◆ RoHS Compliant

Series 96 Keypads

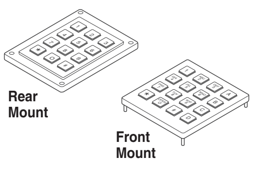

Grayhill's Series 96 are their most economical 3x4 and 4x4 keypad family. They have such features as conductive rubber contacts with an operational life of 3 million operations and a good tactile feel for positive feedback to the operator. GH5001 thru GH5004 have black legends with white keys and a black ABS housing. GH5008 thru GH5011 have white legends with black keys and a black ABS housing.

12 Key mating connector use Digi-Key® part numbers:

A3016-ND (connector, 1 piece) / A3007-ND (contacts, 1 package)

16 Key mating connector use Digi-Key® part numbers:

A3017-ND (connector, 1 piece) / A3007-ND (contacts, 1 package)

Description	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
12 Key Keypad, Front Mount, White Keys	GH5001-ND◆	12.26	10.77	9.20	96AB2-102-F
12 Key Keypad, Rear Mount, White Keys	GH5002-ND◆	12.26	10.77	9.20	96AB2-102-R
16 Key Keypad, Front Mount, White Keys	GH5003-ND◆	13.66	11.99	10.25	96BB2-006-F
16 Key Keypad, Rear Mount, White Keys	GH5004-ND◆	13.66	11.99	10.25	96BB2-006-R
12 Key Keypad, Front Mount, Black Keys	GH5008-ND◆	12.26	10.77	9.20	96AB2-152-F
12 Key Keypad, Rear Mount, Black Keys	GH5009-ND	12.26	10.77	9.20	96AB2-152-R
16 Key Keypad, Front Mount, Black Keys	GH5010-ND◆	13.66	11.99	10.25	96BB2-056-F
16 Key Keypad, Rear Mount, Black Keys	GH5011-ND◆	13.66	11.99	10.25	96BB2-056-R

◆ RoHS Compliant

Series 37 Piezo Keypads and Pushbuttons

Vandal Resistant and Virtually Indestructible

Function:

The switch function is based on the physical principal of the Piezo effect. The external push force activates a Piezo element that releases voltage utilized for switching (MosFet).

Advantages:

• Suitable for harsh environments • Sealed metal surface, epoxy potted • Pressure activated, no moving parts • Water and dust proof • Long life expectancy, tested for 50 million cycles

Applications:

• Vending machines • Lifts • Food industry • Mining equipment • Chemical and petrochemical industry • Safety and security • Medical equipment • Industrial machinery

Specifications:

• Rated Voltage: 24 VAC or VDC • Rated Current: 200mA maximum, 1A if requested • Switch Resistance "ON": 10Ω maximum • Switch Resistance "OFF": >5MΩ • Switch Capacitance: 25pF • Actuation Force (typical): 3-5N • Operating Temperature: -20°C ~ 75°C • IP68 per IEC 529

Fig. 1

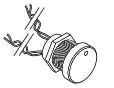

Fig. 2

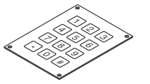

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
	PIEZO Pushbuttons					
1	Momentary with Pins, Smooth Front	GH7300-ND	42.53	38.99	35.44	37FMA1-AAP1N
	Momentary 18" leads with Red LED	GH7301-ND	56.82	47.61	42.24	37FML1-AA11N
	Momentary 18" leads with Red LED Ring	GH7302-ND	116.55	97.65	86.63	37FBR1-AAW1121N
	PIEZO Keypads					
2	PIEZO 12-Key Aluminum Matrix	GH7304-ND	187.78	157.33	139.57	37F1-AB2-AC1
	PIEZO 16-Key Aluminum Matrix	GH7305-ND	200.73	168.18	149.19	37F1-BB2-AC1

5000 Series – Toughened Display Module

This unique bezel ensures an effective presentation of character or graphic display devices in any instrument or control panel. The display bezel fixes from the underside of any control panel, providing a tough and water sealed installation. Three menu navigation and option select keys provide an intuitive and reliable operator interface familiar to any cell phone user. The impact and scratch resistant polycarbonate screen ensures maximum protection against vandalism or hard use in an industrial environment. Offered with an optional back-lit 4 line x 20 character LCD. Alternatively, this bezel can be specified as a non-loaded device that is ready to accept alternate displays.

Dim. in mm

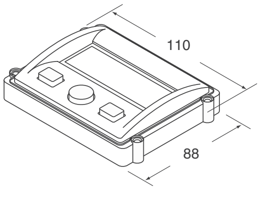

Features:

- Impact resistant (10J BS EN 60068-2-75 : 1997)
- Sealed against liquids and dust (IP65)
- -20°C (dry) ~ 60°C
- Resistant to petrochemicals and most commonly used cleaning agents

Description	Digi-Key Part No.	Price Each 1	10	50	Storm Interface Part No.
Tough Display Module – without LCD	MGR1618-ND◆	41.54	36.71	32.12	5001-200103
Tough Display Module – with 4x20 character LCD	MGR1619-ND	92.76	81.98	71.73	5001-200203

◆ RoHS Compliant

NEW! SF6000 Series –Tough and Compact, Alpha-Numeric Keypads

Storm's SF6000 Series keypads are perfectly suited for industrial applications, access control devices or any public-use data entry device. Large, brightly colored keys with raised tactile symbols ensure maximum usability by those with visual or mobility impairments.

SF6000 Series keypads feature Storm's patented weather resistant (IP65) and vandal resistant switch technology, which allows these devices to be confidently deployed in the harshest industrial or outdoor environments. It also features a stainless steel front plate with high impact polymer keys. It has a 4x4 matrix output with separate connection for illumination.

Illuminated SF6000 Series Keypads: Make data entry easy with large, brightly lit keys. Each key is back-lit by a powerful 4.5 volt LED, making these keypads ideal for dark environments.

Dim. in mm

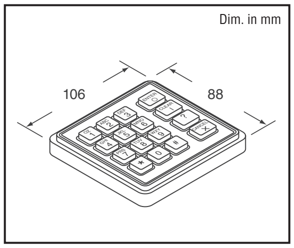

Description	Digi-Key Part No.	Price Each 1	10	50	Storm Interface Part No.
Keypad with Polymer Keys	MGR1624-ND	109.53	96.16	84.06	8616-210023
Keypad with Metal Keys	MGR1625-ND	139.46	122.44	107.03	8616-310023
Keypad with Illuminated Keys	MGR1626-ND	139.46	122.44	107.03	8616-410023
Mount Kit For SF6000 Series	MGR1627-ND	7.93	6.97	6.09	8600-MK0003

K Range Keypad System

Interchangeable for Different Environments/Applications

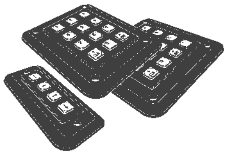

Storm K Range keypads are 100% interchangeable to suit any application. Each series is identical in size and mounting specifications, allowing for easy price/performance selection for different environments. Each keypad is available in calculator or telephone formats (arrows or F-Keys on the 4-key version) or the end user may customize by using optional blank keys. All keypads are compatible with the Storm Universal Encoder and include instructions and a gasket seal. Storm K Range Keypads are ideal for access control, pin numbering/banking functions and kiosk application.

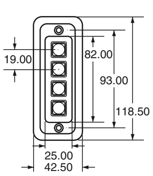

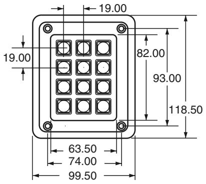

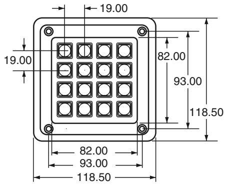

Storm 1000 Series — *Public/Outdoor Environments*

• Anti-Vandal design ideal for public environment • Features metal casing and keys • Fully sealed, to IP67, for use in outdoor environments • Key color: Silver • Case Color: Silver • Operational life: 4 Million cycles (min) per key • Operational Temperature Range: -40°C ~ 100°C • Gold on nickel plated FR4 contact PCB • Connector: 0.1" pitch, gold plated, square pin, male

Storm PLX Series — *Anti-Vandal, Industrial Sealed Keypad*

• Tough metal key keypad with polymer housing • Ideal for public and industrial environments • Sealed to IP65 for exposed environments • Case Color: Black • Key Color: Silver • Operational life: 4 million cycles (minimum) per key • Operational Temperature Range: -40°C ~ 100°C • Gold on nickel plated FR4 contact PCB • Connector: 0.1" pitch, goldplated, square pin, male

Storm 2000 Series — *Harsh Industrial/Wet Environments*

• Impact resistant industrial keypad • High impact resistant polymer casing and keys • Sealed to IP65, allowing pressure hose wash • Case Color: Mid Gray • Key Color: Light Gray • Operational life: 4 million cycles (min) per key • Operational Temperature Range: -25°C ~ 85°C • Gold on nickel plated FR4 contact PCB • Connector: 0.1" pitch, gold plated, square pin, male

Storm 3000 Series — *General Service/Sheltered Outdoor Use*

• Reliable keypad for sheltered environments • General service polymer casing and keys • Rain and splash proof to IP54 specifications • Case Color: Mid Gray • Key Color: Light Gray • Operational life: 2 million cycles (min) per key • Operational Temperature Range: -10°C ~ 85°C • Connector: 0.1" pitch, gold plated, square pin, male

Description	Digi-Key Part No.	Price Each	Storm Part No.
1000 Series - Vandal Resistant - (Silver Diecast Housing)			
4-Key Keypad, Arrow keys	MGR1512-ND◆‡	44.89	1K041103
4-Key Keypad, F1-F4 keys	MGR1511-ND◆‡	31.05	1K042103
12-Key Keypad, Telephone	MGR1513-ND◆†	64.84	1K12T103
12-Key Keypad Calculator	MGR1501-ND◆†	64.84	1K120103
16-Key Keypad, Telephone	MGR1514-ND◆†	77.81	1K16T103
16-Key Keypad Calculator	MGR1601-ND†	77.81	1K160103
Illuminated 12-Key Keypad, Calculator	MGR1576-ND	81.06	1KL120103
PLX Series			
4-Key Keypad, F1-F4 Keys, Black Case	MGR1541-ND◆	39.04	PLX042203
4-Key Keypad, Arrow Keys, Black Case	MGR1542-ND◆	39.04	PLX041203
12-Key Keypad, Calculator Format, Black Case	MGR1543-ND◆	56.42	PLX120203
12-Key Keypad, Telephone Format, Black Case	MGR1544-ND◆	56.42	PLX12T203
16-Key Keypad, Calculator Format, Black Case	MGR1545-ND	67.68	PLX160203
16-Key Keypad, Telephone Format, Black Case	MGR1546-ND	67.68	PLX16T203
2000 Series - Industrial - (Mid-Grey Impact Polymer Housing)			
4-Key Keypad, Arrow keys	MGR1516-ND◆‡	30.93	2K041103
4-Key Keypad, F1-F4 keys	MGR1517-ND◆‡	30.93	2K042103
12-Key Keypad, Calculator Format	MGR1518-ND†	44.89	2K120103
12-Key Keypad, Telephone Format	MGR1519-ND◆†	44.89	2K12T103
16-Key Keypad, Calculator Format	MGR1520-ND†	54.87	2K160103
16-Key Keypad, Telephone Format	MGR1521-ND†	54.87	2K16T103
3000 Series - Commercial - (Mid-Grey General Service Polymer Housing)			
4-Key Keypad, Arrow keys	MGR1523-ND◆‡	19.75	3K041103
4-Key Keypad, F1-F4 keys	MGR1524-ND◆‡	19.75	3K042103
12-Key Keypad, Calculator Format	MGR1525-ND◆†	29.12	3K120103
12-Key Keypad, Telephone Format	MGR1526-ND◆†	29.12	3K12T103
16-Key Keypad, Calculator Format	MGR1527-ND†	35.41	3K160103
16-Key Keypad, Telephone Format	MGR1528-ND◆†	35.41	3K16T103
Accessories — RoHS Compliant			
Blank Keys for 1000 Series 4 pieces	MGR1515-ND	7.00	1K000003
Blank Keys for 2000/3000 Series 4 pieces	MGR1522-ND	3.00	2K000003
Rear Casing for 12-Key Keypads	MGR1536-ND	27.56	RC120203
Privacy Shroud for 12-Key Keypads	MGR1562-ND	29.32	1KFS0203

◆ ***RoHS Compliant*** ‡ 4-Key Mating Connector use Digi-Key Part Number: WM2003-ND (Connector, 1 pkg)/ WM1114-ND (Contacts, 1 pkg) † 12 Key or 16-Key Mating Connector use Digi-Key Part Number: WM2006-ND (Connector, 1 pkg)/ WM1114-ND (Contacts, 1 pkg)

Keypad Interface

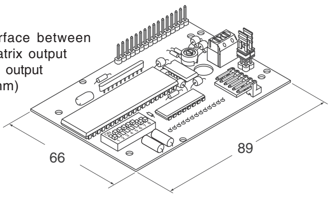

Storm 420 Series Encoders provide an interface between keypads and host systems. Converting the matrix output from Storm keypads, the encoder sends RS232 output to a host system, via the 6 pin .100" (2.54mm) pitch connector. **Features:** • Input Power +5V ± 0.25VDC • RS232 Output via 6 pin Molex .100" (2.54mm) Pitch KK Series Connector • Drives Powertip's 80 character LCD Display from keypad • RS232 **Mates With: • Connector:** WM2004-ND • **Contact**: WM2312-ND

MGR1602-ND (*RoHS Compliant*) $64.86

Storm GFX Series

Customizable Keypad

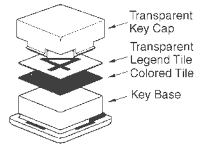

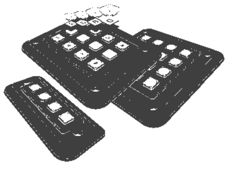

Available with Full Key Illumination

Graphic Series Keypads feature customizable keytop legends. Keypad layouts are customized by inserting legend tiles into the transparent keycap then securing the self-locking cap onto the key base. Once pressed into place, the keycap provides a permanent cover resistant to water, dust and physical damage.

Illuminated Graphic Series Keypads are perfect for dimly lit environments. They also feature easily customizable legends, each keytop can be illuminated in a wide range of colors using the translucent color tiles. Available with white or red/green LED key illumination. • Fully customizable impact-resistant keypads • Ideal for commercial and industrial applications • Rain and splash proof to IP54 specifications • 4, 12 and 16 key formats available • Case Color: Black • Operational life: 2 million cycles (min) per key • Operational temp. range -10°C ~ 85°C • Gold on nickel plated FR4 contact PCB • Connector: 0.1" pitch, gold plated, square pin, male

Description	Digi-Key Part No.	Price Each	Storm Part No.
4-Key Graphic Keypad and 5 Keycaps, Common Bus	MGR1547-ND◆	24.73	GS040203
12-Key Graphic Keypad and 13 Keycaps, Black, Matrix	MGR1548-ND	35.91	GS120203
16-Key Graphic Keypad and 17 Keycaps, Black, Matrix	MGR1549-ND◆	43.89	GS160203
4-Key Illuminated Graphic Keypad (Red/Green LED)	MGR1568-ND◆	29.67	GSRG040203
12-Key Illuminated Graphic Keypad (Red/Green LED)	MGR1569-ND	43.09	GSRG120203
16-Key Illuminated Graphic Keypad (Red/Green LED)	MGR1570-ND◆	52.67	GSRG160203
4-Key Illuminated Graphic Keypad (White LED)	MGR1571-ND◆	34.62	GSLW040203
12-Key Illuminated Graphic Keypad (White LED)	MGR1572-ND◆	53.87	GSLW120203
16-Key Illuminated Graphic Keypad (White LED)	MGR1573-ND◆	74.31	GSLW160203
Legend Set A, 0-9, Arithmetic Function, Arrows, 26 Tiles	MGR1550-ND◆	2.60	GSA0T203
Legend Set B, Computer Legend, Arrows, 26 Tiles	MGR1551-ND◆	2.60	GSB0T203
Legend Set C, Alphabet Legend, 26 Tiles	MGR1552-ND◆	2.60	GSC0T203
Legend Set D, F1-F4 Keys, Misc. Keys, 26 Tiles	MGR1553-ND◆	2.60	GSD0T203
Legend Set E, Blank Keys Legend, 30 Tiles	MGR1554-ND	2.60	GSE0T203
Legend Set F, 0-9, Ent., Off, +, -, #, *, 25 Tiles	MGR1555-ND◆	2.60	GSF0T203
Gray Colored Legends, 30 Tiles	MGR1556-ND	1.72	GS000203
Red Colored Legends, 30 Tiles	MGR1557-ND◆	1.72	GS000303
Green Colored Legends, 30 Tiles	MGR1558-ND◆	1.72	GS000403
Blue Colored Legends, 30 Tiles	MGR1559-ND◆	1.72	GS000503
White Colored Legends, 30 Tiles	MGR1615-ND◆	1.72	GS000103
Yellow Colored Legends, 30 Tiles	MGR1560-ND◆	1.72	GS000603
Replacement Keycaps, 4 Keycaps and 4 Keybases	MGR1561-ND◆	5.16	GS000003

◆ ***RoHS Compliant***

Environmentally Sealed Keypads

700 Series

The 700 Series of sealed keypads intended are for use individually or as modular building blocks to create more complex key-panel layouts. Unlike other sealed keypads, the 700 series have excellent tactile characteristics providing fast and reliable data input. When a keytop is depressed a conductive rubber pill makes contact with a gold on nickel plated PCB. These contact materials provide the highest level of protection against corrosive atmospheres and contact oxidization. Each keypad has interchangeable keytop legend tiles. Keypads come in two colors, gray or black, and feature a matrix style output. Instructions and pinouts are included. Compatible with Storm Universal Encoder part number "MGR1602-ND".

Fig. 1

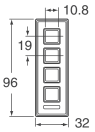

Fig. 2

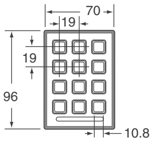

Fig. 3

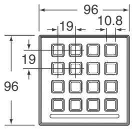

Fig. 4

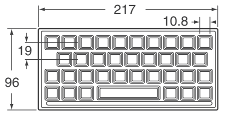

Fig.	Description	Digi-Key Part No.	Price Each	Storm Part No.
1	4 Key Keypad with Legend Set A, Gray	MGR1101-ND◆	22.68	70040103
	4 Key Keypad with Legend Set A, Black	MGR1111-ND◆	22.68	70040203
2	12 Key Keypad with Legend Set A, Gray	MGR1102-ND◆	34.68	70120103
	12 Key Keypad with Legend Set A, Black	MGR1112-ND◆	34.68	70120203
3	16 Key Keypad with Legend Set A, Gray	MGR1103-ND◆	44.96	70160103
	16 Key Keypad with Legend Set A, Black	MGR1113-ND◆	44.96	70160203
4	36 Key Keypad with Legend Set B & C, Gray	MGR1104-ND	69.98	70360103
	36 Key Keypad with Legend Set B & C, Black	MGR1114-ND◆	69.98	70360203
—	Legend Set A 0-9, Arith. Function, Arrows	MGR1201-ND◆	4.00	70A00103
	Legend Set B Computer Legend, Arrows	MGR1202-ND◆	4.00	70B00103
	Legend Set C Alphabet Legend	MGR1203-ND◆	4.00	70C00103
	Legend Set D F1-F12, Misc. Keys	MGR1204-ND	4.00	70D00103
	Legend Set E Blank Legend	MGR1205-ND◆	4.00	70E00103
	Legend Set F 0-9, Ent, Off, +, -, #, *	MGR1206-ND◆	4.00	70F00103
	Under Panel Mount Clip (2 pcs.)	MGR1401-ND◆	3.87	7004CL03

◆ ***RoHS Compliant***

Storm Interface

2200 Series Vandal Resistant Keyboards and Keyboards with Trackball

These keyboards are constructed to survive in exposed, unsupervised, public environments. A hardened stainless steel front plate and captive, high impact polymer keys ensure the keyboard's resistance to hard use and abuse.

Features: • Tough, vandal resistant construction • Permanent laser engraved keytop characters • Sealed against water and dust to IP65 • Integral PS/2, USB interface electronics (switchable) • Foot Mounting kit available for desktop applications

Fig. 1

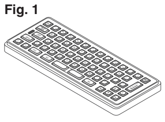

Fig. 2

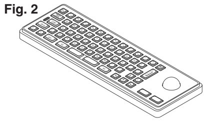

Fig.	Description	Digi-Key Part No.	Price Each	Storm Part No.
1	Vandal Resistant Keyboard, 61-Key	MGR1609-ND◆	300.10	2210-220023
	Vandal Resistant Keyboard, 75-Key including F-Keys	MGR1613-ND◆	320.14	2220-220023
	Vandal Resistant Keyboard, 93-Key including number pad	MGR1614-ND◆	360.22	2230-220023
2	Vandal Resistant Keyboard, 63-Key with Poly TB	MGR1610-ND◆	440.38	2210-220223
	Vandal Resistant Keyboard, 63-Key with Metal TB	MGR1611-ND	500.50	2210-320323
—	Foot Mounting Kit for 2200 Series	MGR1617-ND◆	19.90	2200-FK0003

◆ *RoHS Compliant*

2200 Series Stand-Alone Trackballs

This 38mm, panel mount, trackball provides smooth, accurate and responsive cursor control in wet, dirty or aggressive environments. Sealed against the ingress of fluids and dust, the device automatically configures to provide either PS/2 or USB connectivity. The robust chassis is designed to provide secure under-panel fixing for maximum resistance to hard use, abuse and vandalism. This device is supplied complete with comprehensive fixing, connection and configuration instructions.

Description	Digi-Key Part No.	Price Each	Storm Part No.
Robust Trackball Phenolic Ball	MGR1607-ND	123.76	2200-000203
Vandal Resistant Trackball Steel Ball	MGR1608-ND	163.72	2200-000303
Accessories for 2200 Series Keyboards and Trackballs			
PS/2 Keyboard Cable; 2.5 Meters	MGR1603-ND	11.92	1200-001003
USB Keyboard Cable; 2.5 Meters	MGR1604-ND	11.92	1200-002003
PS/2 Trackball Cable; 2.5 Meters	MGR1605-ND	11.92	2200-002003
USB Trackball Cable; 2.5 Meters	MGR1606-ND	11.92	2200-003003

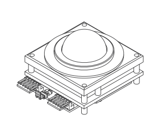

NKK SWITCHES

NEW! Series FM Membrane Switch Keypads

Fig. 1

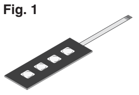

Fig. 2

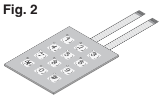

Fig. 3

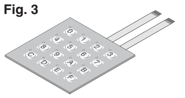

Characteristics: • 1.0mm (.039") tail pitch • Actuating dome offers crisp, tactile feedback to positively indicate circuit transfer • Illuminated models feature legends on embossed keypads • Adhesive backing for easy mounting **Specifications:** • Power Level: 20mA @ 24VDC • Contact Resistance: 500Ω maximum (10mA @ 10VDC) • Insulation Resistance: 100MΩ minimum • Dielectric Strength: 250VAC minimum, for one minute minimum • Operational Life: 1,000,000 operations minimum • Contact Timing: 10 milliseconds maximum • Operating Temperature: -15°C ~ 50°C **LED Specifications:** • Forward Voltage: 2.1V • Forward Current: 20mA **Connectors:** • Recommended for 5 pin: Molex 0528060570 • Recommended for 8 pin: Molex 0528060810 • 1 connector required for Non-illuminated • 2 connectors required for Dot with Overlay

Note: • 4-Key Keypads have 5 pins • 12-Key and 16-Key Keypads have 8 pins

Fig.	Illumination	No. of Keys	Surface Sheet	Digi-Key Part No.	Price Each	NKK Part No.
1	Non-illuminated	4	Black	360-2294-ND	18.90	FMBN04BD
	Non-illuminated	4	Gray	360-2295-ND	18.90	FMBN04BE
2	Dot with Overlay	12	Gray	360-2298-ND	36.08	FMBP12BF
3	Non-illuminated	16	Black	360-2296-ND	25.00	FMBN16BD
	Non-illuminated	16	Gray	360-2297-ND	25.00	FMBN16BE
	Dot with Overlay	16	Gray	360-2299-ND	41.80	FMBP16BF

Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Connector for 4-Key Keypads	WM5314-ND	.44	.36	.28	52806-0570
Connector for 12- and 16-Key Keypads	WM5315-ND	.50	.41	.32	52806-0810

CHERRY

Computer Keyboards

Fig. 1

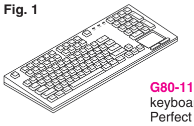

G80-11900: Compact 104-key IBM compatible keyboard with integrated, 2 button touchpad. Perfect for space critical applications.

Fig. 2

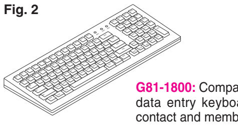

G81-1800: Compact, 104 key, Windows compatible, data entry keyboard, featuring full travel, sealed contact and membrane, AT or PS/2 interface.

Fig. 3

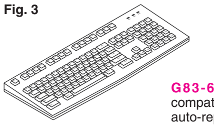

G83-6104: Economical, Windows compatible, 104-key laser printed caps with auto-repeat and full travel keyswitches.

Fig. 4

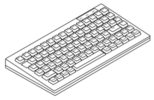

G84-4100: Notebook size for applications with space limitations or mobile systems. Windows compatible.

Fig. 5

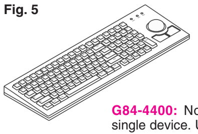

G84-4400: Notebook size with two functions in a single device. Ultra-low profile and an integrated, high quality, PS/2 compatible 16mm trackball, makes this keyboard ideal for applications where space is limited.

Fig. 6

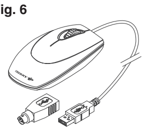

M-5400: Optical sensor for precise movement of the mouse pointer, with a resolution of up to 800 dpi.

Fig.	Description	Digi-Key Part No.	Price Each	Cherry Part No.
Full Size, 104-Key Computer Keyboards				
1	Touch Board PS/2, Light Gray, AT and Serial Adapters	CH888-ND	177.67	G80-11900LTMUS-0
	Touch Board PS/2, Black, AT and Serial Adapters	CH718-ND	192.10	G80-11900HVMUS
	Touch Board PS/2, Beige, AT and Serial Adapters	CH720-ND	175.10	G80-11900LTMUS
	Touch Board PS/2, Light Gray	CH887-ND	169.52	G80-11900LPMUS-0
	Touch Board PS/2, Black, AT and Serial Adapters	CH889-ND	177.67	G80-11900LTMUS-2
	Touch Board PS/2, Black	CH893-ND	169.52	G80-11900LPMUS-2
2	General Purpose PS/2, Light Gray	CH731-ND	85.75	G81-1800LPMUS-0
	General Purpose PS/2, Black	CH890-ND	85.75	G81-1800LPMUS-2
	General Purpose USB, Light Gray	CH894-ND	85.75	G81-1800LUMUS-0
3	Microsoft Windows PS/2, Light Gray	CH738-ND	25.50	G83-6104LPNUS-0
	Microsoft Windows USB, Light Gray	CH891-ND	34.13	G83-6104LUNUS-0
	Microsoft Windows PS/2, Black	CH896-ND	38.98	G83-6104LRNUS-2
	Microsoft Windows USB, Black	CH897-ND	36.08	G83-6104LUNUS-2
	Business Design K-1 USB, Light Gray	CH900-ND	16.50	J82-16001LUNEU-0
	Business Design K-1 USB, Black	CH901-ND	16.50	J82-16001LUNEU-2
Notebook Style, 83-Key Computer Keyboards				
4	PS/2 Interface, Tampo-Printed Caps, Beige	CH217-ND	68.00	G84-4100PPAUS
	USB Interface, Tampo-Printed Caps, Light Grey	CH742-ND	95.15	G84-4100PCAUS-0
	PS/2 Interface, Tampo-Printed Caps, Black	CH746-ND	78.20	G84-4100PRAUS
	USB Interface, Tampo-Printed Caps, Black	CH747-ND	95.15	G84-4100PTAUS
	USB, PS/2 Adapter Tampo-Printed Caps, Black, 86-Key	CH898-ND	95.15	G84-4100PTMUS
5	Integrated Trackball, PS/2, Tampo-Printed Caps, Black	CH750-ND	178.50	G84-4400PRBUS
	Integrated Trackball, USB, Tampo-Printed Caps, Black	CH751-ND	178.50	G84-4400PTBUS
	Integrated Trackball, PS/2, Tampo-Printed Caps, Light Gray	CH892-ND	163.35	G84-4400PPBUS-0
	Integrated Trackball, PS/2, Tampo-Printed Caps, Beige	CH899-ND	163.35	G84-4400PPBUS
	Integrated Trackball, USB, Tampo-Printed Caps, Beige	CH752-ND	168.30	G84-4400PUBUS
Power Wheel Mouse Optical				
6	USB, PS/2 Adapter, Light Gray	CH902-ND	15.75	M-5400
	USB, PS/2 Adapter, Black	CH903-ND	15.75	M-5450

MX Key Switches

Main Advantages: • The MX is a modern full-travel low-profile keyswitch • This module is designed to meet all current ergonomic standards demanded for word and data processing applications • Gold wire crossbar contacts ensure long life expectancy • High reliability also during quick actuation • All switches are momentary N/O type **Specifications:** • Maximum Voltage 12 • Maximum Current 10mA • Contact Resistance 200mΩ • Capacity at 1MHz <1pf • Bouncing Time at 0.4 ≤5ms

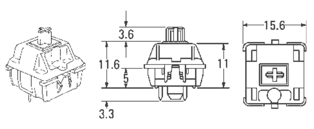

PCB Mount with Support Pins

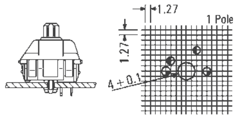

Face Plate Mount

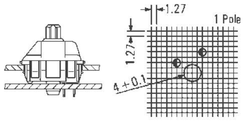

Description	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
PCB Mount					
Linear Feel	CH160-ND	.86	.77	.64	MX1A-11NW
Click Tactile Feel	CH197-ND	.95	.84	.70	MX1A-EINW
Soft Tactile Feel	CH310-ND	.70	.63	.52	MX1A-C1NW
Face Plate Mount					
Linear Feel	CH162-ND	.86	.77	.64	MX1A-11NN
Click Tactile Feel	CH196-ND	.86	.77	.64	MX1A-EINN
Soft Tactile Feel	CH198-ND	1.16	1.04	.86	MX1A-CINN

CHERRY Pushwheel Switches

Fig.	Output Code	Posi-tions	Read-Out	Features	Digi-Key Part No.	Price Each 1	10	50	100	Cherry Part No.
PA Pushwheel										
1A	BCD	10	0 - 9	Extended Buttons	CH178-ND◆	17.28	15.36	12.80	10.56	PACA-3000
	BCD Compl.	10	0 - 9	Extended Buttons	CH179-ND◆	26.68	23.72	19.76	16.31	PAEA-3000
	BCD	10	0 - 9	Ext. Board for Diodes	CH180-ND◆	21.06	18.72	15.60	12.87	PACA-4000
	Decimal	10	0 - 9	Extended Buttons	CH682-ND◆	22.49	20.00	18.75	15.83	PAAA-3000
	Octal	8	0 - 7	Extended Buttons	CH683-ND◆	20.09	17.86	14.88	12.28	PABA-3000
	Octal	8	0 - 7	Flush Buttons	CH684-ND◆	21.60	19.20	16.00	13.20	PABA-3114
	BCD	10	0 - 9	Extended Buttons	CH685-ND◆	18.71	16.64	13.86	11.44	PACA-3100
	BCD	10	0 - 9	Flush Buttons	CH686-ND◆	18.71	16.64	13.86	11.44	PACA-3114
	Hexadecimal	16	0 - 15	Extended Buttons	CH687-ND◆	14.96	13.30	11.08	9.15	PAGA-3100
	Hexadecimal	16	0 - 15	Flush Buttons	CH688-ND◆	14.96	13.30	11.08	9.15	PAGA-3114
	Hexadecimal	16	0 - 15	Flush Buttons	CH689-ND◆	15.61	13.88	11.56	9.54	PAGE-3114
	Hexadecimal	16	0 - 15	Flush Buttons	CH690-ND◆	15.61	13.88	11.56	9.54	PAGN-3114
Right End Caps for PA Switches					CH188-ND◆	.68	.60	.50	.44	0609-0799
Left End Caps for PA Switches					CH189-ND◆	.68	.60	.50	.44	0609-0801
Housing .300” (7.62mm) PA Blank Black Matte					CH678-ND	1.03	.92	.86	.73	0609-0797
Spacer .100” (2.54mm) PA Blank Black Matte					CH679-ND	1.03	.92	.86	.73	0609-0803
PB Pushwheel — “Dustproof” Front Mount — RoHS Compliant										
1B	BCD	10	0-9	—	CH185-ND	9.88	8.79	7.32	—	PBC1-E015
Right End Caps for PB Switches					CH194-ND	.68	.60	.50	.44	0609-1347
Left End Caps for PB Switches					CH195-ND	.68	.60	.50	.44	0609-1346
Spacer .100” (2.54mm) for PB Series Black					CH680-ND	1.03	.92	.86	.73	0609-1348
PE Pushwheel — RoHS Compliant										
1C	Decimal	10	0-9	Extended Buttons	CH239-ND	19.95	17.74	14.78	12.20	PEAA-3000
	BCD	10	0-9	Extended Buttons	CH181-ND	19.47	17.31	14.42	11.90	PECA-3000
	Hex	16	0-15	Extended Buttons	CH240-ND	26.84	23.86	19.88	16.41	PEGA-3000
	Hex	16	0-9, A-F	Extended Buttons	CH281-ND	26.49	23.55	19.62	16.19	PEHA-3000
	BCD	10	0-9	Ext. Board for Diodes	CH183-ND	24.68	21.94	18.28	15.09	PECA-4000
Right End Caps for PE Switches					CH190-ND	.68	.60	.50	.44	0609-0756
Left End Caps for PE Switches					CH191-ND	.68	.60	.50	.44	0609-0754
Spacer .300” (7.62mm) PE Blank Black Matte					CH677-ND	1.03	.92	.86	.73	0609-0752
T57 Pushwheel — Back Mount										
2	Decimal	10	0-9	Not for new designs	CH242-ND	14.50	12.89	10.74	9.40	0T57-01M0
L20 Leverwheel										
3	Decimal	10	0-9	Not recommended	CH233-ND	16.28	14.48	12.06	10.56	0L20-01A0
	Decimal	10	0-9	for new designs	CH234-ND	16.82	14.96	12.46	10.91	0L20-01M0

◆ ***RoHS Compliant*** **NOTE: PAGA:** QC terminal **PAGE:** Right angle header **PAGN:** Locking right angle header.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Cherry Part No.
Connectors — RoHS Compliant						
4	Connector for PA Series BCD/HEX, PC Mount Terminal	CH271-ND	4.21	3.75	2.97	C2KO-P107
	Connector for PE Series BCD/HEX, PC Mount Terminal	CH274-ND	4.51	4.01	3.18	C2RO-P111
	Connector for PE Series BCD/HEX Solder Eyelet Terminal.	CH681-ND	4.51	4.01	3.18	C2RFN116

Fig. 1 – PA, PB and PE Series

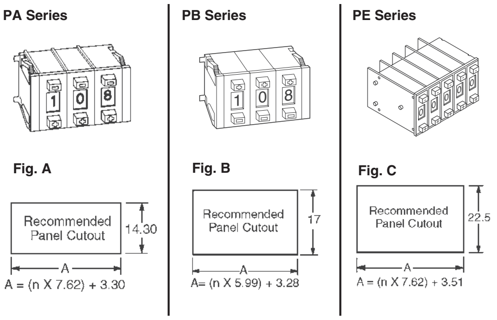

Each digit is a separate module. Combine each module to make a final unit, as shown.

Fig. 2 – T57

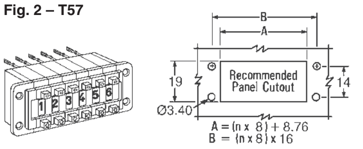

Each digit is a separate module. Combine each module to make a final unit, as shown.

Fig. 3 – L20 (Right and Left End Caps)

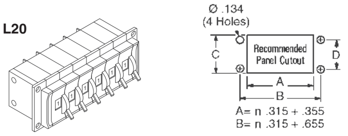

Each digit is a separate module. Combine each module to make a final unit, as shown.

Model	A	B	C	D
L20	(n x 12.70) = 10.29	(n x 12.70) + 15.11	24.89	22.86

Fig. 4 – Connectors

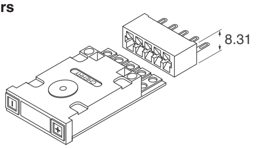

OMRON Thumbwheel Switches

RoHS COMPLIANT

Fig. 1

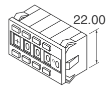

Fig. 2

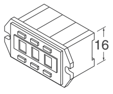

Fig. 3

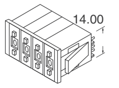

Each digit is a separate module. Combine each module to make a final unit, as shown above.

A7B Series:

Features: • Dustproof construction ensures highly reliable performance at low voltage and very small current even under adverse environmental conditions • Switch units can be assembled simply by fitting the integral hook coupler of each unit into the mating unit, thus eliminating the need of nuts and bolts for assembly • Switch assembly can be mounted easily by merely pushing the assembly into the mounting panel cutout from front

A7CN Series:

Features: • Designed specially for printed circuit boards • The transparent window plate fitted in the readout section prevents the ingress of dust and also protects dial characters against wear by incorrect handling • Switch units can be assembled simply by fitting the integral hook coupler of each unit, into the mating unit, thus eliminating the need of nuts and bolts for assembly

A7D Series:

Features: • Cost effectiveness and improved reliability achieved through insert-molding and fewer component parts • Plastic spring with minimal fatigue and a mechanical service life of 30,000 operations

Fig.	Output	No. of Positions	Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	BCD	0-9	Black Gloss	SW266-ND	8.48	7.63	6.78	A7BS-206-1
	BCD	0-9		SW267-ND	8.48	7.63	6.78	A7BS-206-S-1
	BCD with Ext. Brd.	0-9		SW268-ND	9.13	8.22	7.30	A7BS-207-1
	+, - Display Only	+, -		SW269-ND	10.93	9.84	8.74	A7BS-207-PM-1
—	Connector for A7BS Series, Solder Terminal with Mount Ears			SW270-ND	4.98	4.48	3.98	A7B-C
	End Caps for A7BS Series, Left/Right 2 Pcs.			SW271-ND	1.38	1.24	1.10	A7B-M-1
	Spacer for A7BS Series, Black No Marking			SW272-ND	.75	.68	.60	A7B-PA-1
2	BCD (Back Mount)	0-9	Black Gloss	SW273-ND	6.78	6.10	5.42	A7CN-106-1
	BCD (Front Mount)			SW274-ND	6.78	6.10	5.42	A7CN-206-1
—	End Caps for A7CN Series, Back Mount Only			SW275-ND	.83	.75	.66	A7CN-1M-1
	Spacer for A7CN Series, Back Mount Only, Black			SW276-ND	.65	.59	.52	A7CN-1PA-1
	End Caps for A7CN Series, Front Mount Only			SW277-ND	.83	.75	.66	A7CN-2M-1
	Spacer for A7CN Series, Front Mount Only, Black			SW278-ND	.65	.59	.52	A7CN-2PA-1
3	BCD (Back Mount)	0-9	Black Gloss	SW279-ND	5.23	4.71	4.18	A7D-106-1
	BCD (Front Mount)		Black Gloss	SW280-ND	5.23	4.71	4.18	A7D-206-1
	BCD (Back Mount)		Light Gray	SW504-ND	5.23	4.71	4.18	A7D-106
	BCD (Front Mount)		Light Gray	SW505-ND	5.23	4.71	4.18	A7D-206
—	End Caps for A7D Series, Back Mount Only, Black			SW281-ND	.83	.75	.66	A7D-1M-1
	End Caps for A7D Series, Front Mount Only, Black			SW282-ND	.75	.68	.60	A7D-2M-1
	Spacer for A7D Series, Back Mount Only, Black			SW283-ND	.83	.75	.66	A7D-1PA-1
	Spacer for A7D Series, Front Mount Only, Black			SW284-ND	.83	.75	.66	A7D-2PA-1
	End Caps for A7D Series, Back Mount Only, Light Gray			SW506-ND	.83	.75	.66	A7D-1M
	End Caps for A7D Series, Front Mount Only, Light Gray			SW508-ND	.78	.70	.62	A7D-2M
	Spacer for A7D Series, Back Mount Only, Light Gray			SW507-ND	.83	.75	.66	A7D-1PA
	Spacer for A7D Series, Front Mount Only, Light Gray			SW509-ND	.83	.75	.66	A7D-2PA

C&K

Thumbwheel Switches

Features:

- Most complete product offering in the industry
- Spacers available to fit most panel cutouts
- Front or rear mounting options

Note: End caps sold separately.

Fig. 1
Series 3

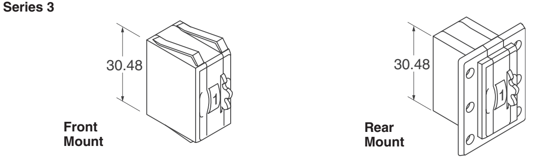

Fig. 2
Series 3P

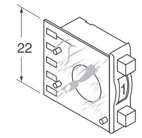

Fig.	Description	No. of Pos.	Color	Termination	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
1	Decimal Output, Front Mount	0-9	Black Gloss	Short PC Board	CKN5013-ND◆	8.59	7.42	6.25	301109000
	BCD Output, Front Mount	0-9	Black Gloss	Short PC Board	CKN5014-ND◆	9.22	7.97	6.71	302109000
	BCD Output, Front Mount	0-9	Black Gloss	Extended PC Board	CKN5035-ND◆	10.79	9.32	7.85	302109100
	BCD Output, Front Mount	0-9	Black Gloss	PC Pins	CKN1865-ND◆	13.94	12.05	10.14	302109N00
	BCD Complement, Front Mount	0-9	Black Gloss	Short PC Board	CKN5037-ND◆	8.59	7.42	6.25	302309000
	BCH Output, Front Mount	0-F	Black Gloss	Short PC Board	CKN5038-ND◆	17.24	14.90	12.55	307109000
	Decimal Output, Rear Mount	0-9	Black Gloss	Short PC Board	CKN1186-ND◆	8.59	7.42	6.25	301119000
	BCD Output, Rear Mount	0-9	Black Gloss	Short PC Board	CKN1187-ND◆	9.22	7.97	6.71	302119000
	BCD Output, Rear Mount	0-9	Black Gloss	Extended PC Board	CKN5039-ND◆	11.58	10.01	8.43	302119100
	BCD Output, Rear Mount	0-9	Black Gloss	PC Pins	CKN1866-ND◆	13.94	12.05	10.14	302119N00
	BCD Complement, Rear Mount	0-9	Black Gloss	Short PC Board	CKN5041-ND◆	8.59	7.42	6.25	302319000
	BCH Output, Rear Mount	0-F	Black Gloss	Short PC Board	CKN5042-ND◆	17.24	14.90	12.55	307119000
—	Female Header for Series 3 with PC Board Termination				CKN1752-ND	23.41	16.50	14.90	605A00000
	Front Mounted End Cap for Series 3 (2 required)				CKN5015-ND	1.94	1.55	1.23	413402000
	Front Mounted Spacer for Series 3 (optional)				CKN5016-ND	2.39	1.91	1.52	413502000
	Rear Mounted End Cap for Series 3 (2 required)				CKN5017-ND	.83	.66	.53	400402003
	Rear Mounted Spacer for Series 3 (optional)				CKN5018-ND	1.80	1.44	1.14	400802000
—	Rod Assembly for 1 Module (Series 3)				CKN5019-ND	2.70	2.16	1.71	412707000
	Rod Assembly for 2-4 Modules (Series 3)				CKN5020-ND	2.81	2.25	1.78	412701000
	Rod Assembly for 5-7 Modules (Series 3)				CKN5021-ND	2.84	2.27	1.80	412702000
—	Fastener Nut for Rod Assemblies (Series 3)				CKN5023-ND	.29	.23	.19	403500000
	Nut Driver hand tool for CKN5023-ND Fasteners				CKN5024-ND*	7.61	6.58	5.54	406100652
2	BCD type with Straight Board, Front Mount	0-9	Black Matte	Short PC Board	CKN5029-ND◆	8.42	7.28	6.13	3P0210000
	BCD Output with Dust Lens, Front Mount	0-9	Black Matte	Short PC Board	CKN5044-ND◆	8.76	7.57	6.38	3P0210002
	BCD Output with Dust Lens, Front Mount	0-9	Black Matte	Extended PC Board	CKN5045-ND◆	8.82	7.62	6.42	3P0210102
—	Left End Cap for 3P Series				CKN5031-ND	.57	.46	.37	623502000
	Right End Cap for 3P Series				CKN5032-ND	.57	.46	.37	623602000

* Xcelite hand tool ◆ *RoHS Compliant*

APM HEXSEAL

Transparent Rocker Switch Seals

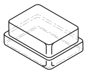

Seals without compromising switch operation, position status viewing or legend visibility.

Maximum Actuator Length Inch (mm)	Maximum Actuator Width Inch (mm)	Maximum Above Panel Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
.750 (19.05)	.531 (13.49)	.228 (5.79)	335-1011-ND	2.40	1.92	1.52	C1113/66(Clear)

Rotary Shaft Seals

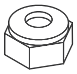

APM's rotary switch and potentiometer seals surround the shaft and forms a watertight and dust tight seal against the shaft and front panel surface. Color: Gray

Thread Size	Max. Shaft Size Inch (mm)	Hex Nut Flat Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
3/8-32NEF-2B	.250 (6.35)	.500 (12.70)	335-1016-ND	3.12	2.50	1.98	N9030x1/4
1/4-32NEF-2B	.125 (3.18)	.375 (9.53)	335-1020-ND	3.12	2.50	1.98	N9040x1/8

Panel Bushing Seal

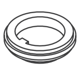

Protect and prevent seepage/leakage through switch/circuit breaker panel cutout using APM's reusable self-sealing washers. Color: Gray

Compatible Switch Bushing	Washer Diameter Inch (mm)	Washer Thickness Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
15/32-32	.677 (17.20)	.120 (3.05)	335-1021-ND	2.43	1.95	1.54	60064

Pushbutton Switch Boots

APM's sealing boots are designed to protect your switches and potentiometers from hostile environments without compromising or interfering with the switches basic function. Boots create a full environmental seal even under high-pressure washdowns. Each seal is made from a tough, high tear strength elastomer that is resistant to most chemicals, lubricants, acids and solvents. UL and CSA recognized which facilitate easier agency listings and most Hexseals are QPL approved under MIL-B-5423.

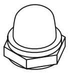

Thread Size	Throat Size (I.D.) Inch (mm)	Plunger Height Inch (mm)	Color	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
15/32-32NS-2B	.422 (10.72)	.281 (7.14)	Gray	335-1009-ND	3.69	2.96	2.34	N3030
15/32-32NS-2B		.438 (11.13)	Gray	335-1008-ND	3.69	2.96	2.34	NC3030
7/16-28UNEF-2B		.438 (11.13)	Clear	335-1013-ND	3.93	3.15	2.49	NC303 7/16-28(CLR)
1/4-40NS-2B	.188 (4.77)	.141 (3.58)	Gray	335-1017-ND	4.41	3.53	2.80	N5040
1/4-32NS-2B		.203 (5.16)	Gray	335-1018-ND	4.41	3.53	2.80	N5040G
1/4-40NS-2B		.203 (5.16)	Gray	335-1019-ND	4.41	3.53	2.80	N5040R

Toggle Switch Boots

Hexseal toggle switch boots are molded from a high tear strength, silicon rubber bonded to a built-in mounting nut. Each encloses the base of the protruding switch bushing and forms a water and dust tight seal against the front panel surface.

* Half-boot toggle

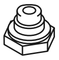

Δ Full-boot toggle

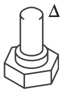

Thread Size	Throat (I.D.) Inch (mm)	Height Inch (mm)	Color	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
1/4-40NS-2B	.047 (1.19)	.250 (6.35)	Gray	335-1006-ND*	4.08	3.27	2.59	N5032B
1/4-40NS-2B	.062 (1.57)	.500 (12.70)	Red	335-1002-NDΔ	4.56	3.65	2.89	N5030L(Red)
1/4-40NS-2B	.062 (1.57)	.500 (12.70)	Black	335-1003-NDΔ	4.56	3.65	2.89	N5030L(Black)
1/4-40NS-2B	.062 (1.57)	.594 (15.09)	Gray	335-1001-NDΔ	4.05	3.24	2.57	N5030S
15/32-32NS-2B	.078 (1.98)	.437 (11.10)	Gray	335-1007-ND*	3.42	2.74	2.17	N1030B
15/32-32NS-2B	.078 (1.98)	.437 (11.10)	Black	335-1022-ND*	3.54	2.84	2.25	C1132/20
15/32-32NS-2B	.219 (5.56)	.844 (21.44)	Gray	335-1005-NDΔ	3.42	2.74	2.17	N1030

APEM APEM COMPONENTS, INC.

Security Guards

Security caps prevent any inadvertent lever operation. When the cap is raised, the lever can be operated freely. When the cap is fully depressed, the lever is reset/locked in a stable position. They are designed for use on switches with ø11.9mm (.468") or ø12mm (.472") threaded bushing and lever length 17.5mm (.688") outside bushing.

Materials:

- Support plate: matte black steel • Cap: thermoset material

Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
Gray, Lockdown	679-1299-ND	50.59	46.13	41.67	22
Black, Lockdown	679-1300-ND	50.59	46.13	41.67	25
Red, Lockdown	679-1301-ND	50.59	46.13	41.67	26
Gray, Lockup	679-1302-ND	50.59	46.13	41.67	42
Black, Lockup	679-1303-ND	50.59	46.13	41.67	45
Red, Lockup	679-1304-ND	50.59	46.13	41.67	46

Dimensions in mm

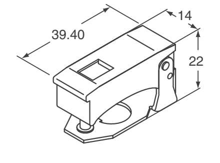

Toggle Switches

Contact Material Options

B Contacts and Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA maximum @ 20VAC or DC maximum

Q End Contacts: Coin silver, silver plated. Center Contact and All Terminals: Copper alloy, silver plated. Rating: 7000 Series: 5A @ 120VAC or 2A @ 250VAC; E-Series: 7.5A @ 125VAC or 28VDC or 3A @ 250VAC; T-Series: 3A @ 120VAC.

G End Contacts: Coin silver, with gold plate over nickel plate. Center Contact and All Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA maximum @ 20VAC or DC maximum or 5 amps @ 120VAC or 28VDC; 2 amps @ 250VAC.

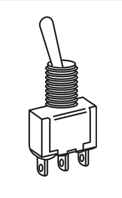

Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Components Part No.
		Actuator	Bushing	Termination				1	25	100	
Vertical											
SPST	On-Off	S	H	Z	Q	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1549-ND	6.98	5.59	4.43	T102SHZQE
SPDT	On-On	S	D9	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1002-ND	5.60	4.48	3.55	7101SD9CQE
	On-On	S	Y	C	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1003-ND	5.60	4.48	3.55	7101SYCBE
	On-On	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1004-ND	5.60	4.48	3.55	7101SYCQE
	On-On	S	H3	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1020-ND	7.23	5.79	4.59	7101SH3ZQE
	On-On	S	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1021-ND	5.44	4.36	3.45	7101SYZBE
	On-On	S	Y	Z	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1022-ND	5.84	4.68	3.70	7101SYZGE
	On-On	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1023-ND	5.44	4.36	3.45	7101SYZQE
	On-On	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1014-ND†	5.60	4.48	3.55	U11SYCQE
	On-On	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1040-ND†	5.44	4.36	3.45	U11SYZQE
	On-Off-On	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1005-ND	6.15	4.92	3.90	7103SYCQE
	On-Off-On	S	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1025-ND	6.00	4.80	3.80	7103SYZBE
	On-Off-On	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1026-ND	6.00	4.80	3.80	7103SYZQE
	On-Off-Mom	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1008-ND	6.27	5.02	3.98	7107SYCQE
	On-Off-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1028-ND	6.12	4.90	3.88	7107SYZQE
	Mom-Off-Mom	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1007-ND	6.27	5.02	3.98	7105SYCQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1027-ND	6.12	4.90	3.88	7105SYZQE
	On-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1029-ND	6.12	4.90	3.88	7108SYZQE
	On-On	S	Y	W6	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1213-ND	6.95	5.57	4.41	7101SYW6BE
	On-On	S	Y	W	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1379-ND	5.93	4.75	3.76	7101SYWBE
	On-On	S	Y	W	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1381-ND	5.93	4.75	3.76	7101SYWQE
	On-On	S	H	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1091-ND	5.66	4.53	3.59	T101SHCQE
	On-On	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1066-ND	5.84	4.68	3.70	T101SHZQE
	On-Off-On	S	H	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1092-ND	6.80	5.44	4.31	T103SHCQE
	On-Off-On	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1087-ND	6.98	5.59	4.43	T103SHZQE
	On-Off-Mom	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1181-ND	7.23	5.79	4.59	T107SHZQE
	Mom-Off-Mom	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1088-ND	6.98	5.59	4.43	T105SHZQE
	On-On	M	D	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1000-ND	5.60	4.48	3.55	7101MDCQE
	On-On	M	D	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1016-ND	5.44	4.36	3.45	7101MDZQE
	On-On	M	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1017-ND	5.44	4.36	3.45	7101MYZQE
	On-On	M	D9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1042-ND	6.80	5.44	4.31	7101MD9V3BE
	On-On	M	D9	V3	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1175-ND	6.80	5.44	4.31	7101MD9V3QE
	On-Off-On	M	D9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1169-ND	7.36	5.89	4.66	7103MD9V3BE
	On-Off-On	M	D9	V3	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1176-ND	7.36	5.89	4.66	7103MD9V3QE
	On-On	S	D9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1043-ND	6.80	5.44	4.31	7101SD9V3BE
	On-On	P3	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1001-ND	7.60	6.09	4.82	7101P3YCQE
	On-On	P3	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1018-ND	7.45	5.96	4.72	7101P3YZBE
	On-On	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1019-ND	7.45	5.96	4.72	7101P3YZQE
	On-Off-On	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1024-ND	8.00	6.41	5.07	7103P3YZQE
	On-Off-Mom	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1142-ND	8.13	6.51	5.15	7107P3YZQE
	On-Mom	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1143-ND	8.13	6.51	5.15	7108P3YZQE
	Mom-Off-Mom	P3	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1006-ND	8.28	6.63	5.25	7105P3YCQE
	On-On	K2	—	C	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1215-ND	9.46	7.57	5.99	7101K2CBE
	On-On	K2	—	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1216-ND	9.46	7.57	5.99	7101K2CQE
	On-On	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1125-ND	9.30	7.45	5.90	7101K2ZQE
	On-On	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1126-ND†	9.30	7.45	5.90	U11K2ZQE
	On-Off-On	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1151-ND	9.86	7.89	6.25	7103K2ZQE
	Mom-Off-Mom	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1152-ND	9.98	7.99	6.33	7105K2ZQE
	On-On	L1	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1147-ND	5.44	4.36	3.45	7101L1YZQE
	On-Off-On	L1	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1148-ND	6.00	4.80	3.80	7103L1YZQE
	On-On	L41(Blk.)	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1220-ND	7.76	6.21	4.92	7101L41YZQE2
	On-On	L41(Red)	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1221-ND	7.76	6.21	4.92	7101L41YZQE3
	On-On	K12	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1212-ND	9.30	7.45	5.90	7101K12ZQE
	On-Off-On	K12	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1155-ND	9.86	7.89	6.25	7103K12ZQE
	Mom-Off-Mom	K12	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1156-ND	9.98	7.99	6.33	7105K12ZQE
	On-On	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1164-ND	8.44	6.75	5.35	7101TZQE
	On-Off-On	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1165-ND	8.99	7.20	5.70	7103TZQE
	On-On	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1159-ND	7.05	5.64	4.47	7101SCWZQE
	On-Off-On	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1160-ND	7.60	6.09	4.82	7103SCWZQE
	Mom-Off-Mom	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1161-ND	7.73	6.19	4.90	7105SCWZQE
	On-On	K2	—	Z	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1442-ND	9.71	7.77	6.15	7101K2ZGE
	On-On	P3	D	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1444-ND	7.60	6.09	4.82	7101P3DCQE
	On-On	P3	H	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1445-ND	8.59	6.88	5.45	7101P3HZQE
	On-On	S	D9	V3	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1448-ND	7.20	5.76	4.56	7101SD9V3GE
	On-On	S	D9	V3	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1449-ND	6.80	5.44	4.31	7101SD9V3QE
	On-On	S	D	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1451-ND	5.60	4.48	3.55	7101SDCQE
	On-On	S	H	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1453-ND	6.58	5.27	4.17	7101SHZQE
	On-On	S	Y9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1455-ND	6.80	5.44	4.31	7101SY9V3BE
	On-On	T1	CW	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1459-ND	10.20	8.16	6.46	7101T1CWCQE
	On-On	T	—	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1460-ND	8.59	6.88	5.45	7101TCQE
	On-On	T	CW	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1461-ND	10.20	8.16	6.46	7101TCWCQE
	On-Off-On	S	CW	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1462-ND	7.76	6.21	4.92	7103TCWCQE
	Mom-Off-Mom	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1465-ND	8.13	6.51	5.15	7105P3YZQE
	Mom-Off-Mom	T1	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1466-ND	9.12	7.30	5.78	7105T1ZQE
	Mom-Off-Mom	T	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1467-ND	10.73	8.58	6.80	7105TCWZQE
	Mom-Off-Mom	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1468-ND	9.12	7.30	5.78	7105TZQE
	On-Off-Mom	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1469-ND	9.98	7.99	6.33	7107K2ZQE
	On-Off-Mom	S	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1470-ND	6.12	4.90	3.88	7107SYZBE
	On-Mom	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1471-ND	9.98	7.99	6.33	7108K2ZQE
	On-Mom	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1473-ND	6.27	5.02	3.98	7108SYCQE
	On-Mom	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1474-ND	9.12	7.30	5.78	7108TZQE

† UL Approved **Note:** All threaded bushings include mounting hardware.

(Continued)

Actuator Options

K Locking Lever

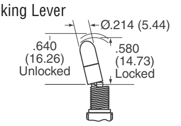

K1 Locking Lever

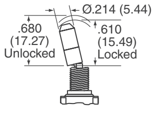

K2 Locking Lever

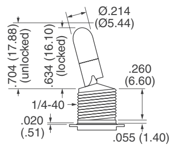

K12 Locking Lever

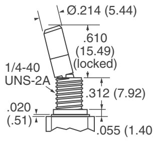

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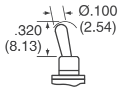

L 1

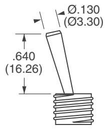

L41

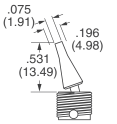

Plastic lever handle antirotation

M

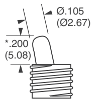

* Add .070 (1.78) for D, D9 bushings.

P3 Antirotation

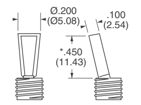

* Add .070 (1.78) for D, D9 bushings.

S

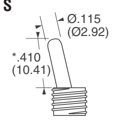

* Add .070 (1.78) for D, D9 bushings.
* Subtract .020 (.51) for H3 bushings.

T
T1 = .487" High

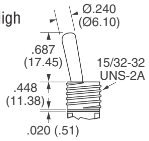

C&K

Toggle Switches *(Cont.)*

Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Components Part No.
		Actuator	Bushing	Termination				1	25	100	
SPDT	On-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1475-ND	6.27	5.02	3.98	7109SYZQE
	On-On	M	D1	C	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1515-ND	5.69	4.56	3.61	E101MD1CBE
	On-On	M	D1	V3	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1516-ND	7.39	5.91	4.68	E101MD1V3BE
	On-On	S	D1	C	G	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1518-ND	6.09	4.87	3.86	E101SD1CGE
	On-On	S	Y	Z	Q	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1519-ND	5.53	4.43	3.51	E101SYZQE
	On-On	L	D1	C	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1527-ND	6.24	5.00	3.96	ET01LD1CBE
	On-On	M	D1	C	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1530-ND	6.24	5.00	3.96	ET01MD1CBE
	Mom-Off-Mom	S	D1	C	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1536-ND	7.05	5.64	4.47	ET05SD1CBE
	Mom-Off-Mom	S	D1	V3	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1537-ND	7.64	6.11	4.84	ET05SD1V3BE
	On-On	M	H9	C	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1546-ND	5.69	4.56	3.61	T101MH9CBE
	On-On	M	H9	V3	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1547-ND	6.21	4.98	3.94	T101MH9V3BE
	On-Off-On	M	H9	V3	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1551-ND	7.36	5.89	4.66	T103MH9V3BE
	On-Mom	S	H	Z	Q	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1554-ND	7.23	5.79	4.59	T108SHZQE
DPDT	On-On	S	Y	C	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1010-ND	8.25	6.61	5.23	7201SYCBE
	On-On	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1011-ND	8.25	6.61	5.23	7201SYCQE
	On-On	S	Y	Z	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1034-ND	8.00	6.41	5.07	7201SYZBE
	On-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1035-ND	8.00	6.41	5.07	7201SYZQE
	On-On	S	Y	W	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1382-ND	8.93	7.15	5.66	7201SYWQE
	On-Off-On	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1012-ND	9.21	7.37	5.84	7203SYCQE
	On-Off-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1036-ND	8.96	7.18	5.68	7203SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1129-ND	8.96	7.18	5.68	7205SYZQE
	On-Off-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1130-ND	9.21	7.37	5.84	7207SYZQE
	On-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1131-ND	9.21	7.37	5.84	7208SYZQE
	On-On	S	H	Z	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1089-ND	9.15	7.32	5.80	T201SHZQE
	On-On	S	H	C	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1182-ND	8.72	6.98	5.52	T201SHCQE
	On-Off-On	S	H	Z	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1090-ND	10.35	8.29	6.56	T203SHZQE
	On-On	M	D	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1031-ND	8.00	6.41	5.07	7201MDZQE
	On-On	M	D9	V3	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1170-ND	9.71	7.77	6.15	7201MD9V3BE
	On-Off-On	M	D9	V3	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1171-ND	10.66	8.53	6.76	7203MD9V3BE
	On-On	P3	Y	Z	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1032-ND	10.01	8.02	6.35	7201P3YZBE
	On-On	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1033-ND	10.01	8.02	6.35	7201P3YZQE
	Mom-Off-Mom	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1144-ND	10.97	8.78	6.95	7205P3YZQE
	On-Off-Mom	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1145-ND	11.22	8.98	7.11	7207P3YZQE
	On-Mom	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1146-ND	11.22	8.98	7.11	7208P3YZQE
	On-On	K2	—	C	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1217-ND	12.11	9.70	7.68	7201K2CBE
	On-On	K2	—	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1127-ND	12.11	9.70	7.68	7201K2CQE
	On-On	K2	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1128-ND	11.87	9.50	7.52	7201K2ZQE
	On-Off-On	K2	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1153-ND	12.83	10.26	8.13	7203K2ZQE
	On-On	L1	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1149-ND	8.00	6.41	5.07	7201L1YZQE
	On-Off-On	L1	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1150-ND	8.96	7.18	5.68	7203L1YZQE
	On-Off-On	K12	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1157-ND	12.83	10.26	8.13	7203K12ZQE
	On-On	T	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1166-ND	11.00	8.81	6.97	7201TZQE
	On-Off-On	T	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1167-ND	11.96	9.57	7.58	7203TZQE
	On-On	S	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1162-ND	9.61	7.69	6.09	7201SCWZQE
	On-Off-On	S	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1163-ND	10.57	8.46	6.70	7203SCWZQE
	On-On-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1132-ND	9.68	7.74	6.13	7211SYZQE
	On-On-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1133-ND	10.38	8.31	6.58	7213SYZQE
	Mom-On-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1134-ND	10.38	8.31	6.58	7215SYZQE
	On-On	M	D9	V4	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1477-ND	9.71	7.77	6.15	7201MD9V4BE
	On-On	P3	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1478-ND	10.26	8.21	6.50	7201P3YCQE
	On-On	S	Y	Z	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1481-ND	8.56	6.85	5.43	7201SYZGE
	On-On	T	—	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1482-ND	11.25	9.00	7.13	7201TCQE
	On-On	T	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1483-ND	12.61	10.09	7.99	7201TCWZQE
	On-Off-On	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1485-ND	10.97	8.78	6.95	7203P3YZQE
	Mom-Off-Mom	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1487-ND	9.21	7.37	5.84	7205SYCQE
	Mom-Off-Mom	T	CW	Z	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1488-ND	14.12	11.30	8.95	7205TCWZGE
	On-On-On	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1492-ND	11.68	9.35	7.40	7211P3YZQE
	On-On-On	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1493-ND	9.92	7.94	6.29	7211SYCQE
	Mom-On-Mom	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1494-ND	10.63	8.51	6.74	7215SYCQE
	Mom-On-Mom	T	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1495-ND	13.38	10.71	8.48	7215TZQE
	On-On	S	H3	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1507-ND	14.27	12.33	10.38	9201SH3ZQE
	On-On	K1	—	Z4	Q	.750 x .750 x .660 (19.05 x 19.05 x 16.76)	CKN1508-ND	22.87	19.76	16.64	9221K1Z4QD
	On-On	K	—	Z4	Q	.750 x .750 x .660 (19.05 x 19.05 x 16.76)	CKN1509-ND	22.87	19.76	16.64	9221KZ4QD
	On-On	S	H3	Z4	Q	.750 x .750 x .660 (19.05 x 19.05 x 16.76)	CKN1510-ND	19.94	17.23	14.51	9221SH3Z4QD
	On-On	M	D1	V3	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1522-ND	10.79	8.63	6.84	E201MD1V3BE
	On-On	M	D1	V3	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1523-ND	10.79	8.63	6.84	E201MD1V3QE
	On-On	S	D1	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1524-ND	8.72	6.98	5.52	E201SD1CQE
	On-On	M	H9	V3	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1557-ND	9.83	7.87	6.23	T201MH9V3BE
	On-On-On	S	H	Z	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1559-ND	11.56	9.25	7.33	T211SHZQE
	On-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1560-ND	8.00	6.41	5.07	U21SYZQE
3PDT	On-On	S	Y	C	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1013-ND	14.00	11.21	8.87	7301SYCQE
	On-On	S	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1037-ND	13.63	10.91	8.64	7301SYZQE
	On-Off-On	S	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1135-ND	14.40	11.53	9.13	7303SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1136-ND	17.87	14.30	11.32	7305SYZQE
	On-Off-On	K2	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1154-ND	18.26	14.62	11.57	7303K2ZQE
	On-Off-On	K12	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1158-ND	18.26	14.62	11.57	7303K12ZQE
	On-On	K2	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1496-ND	12.83	11.08	9.33	7301K2ZQE
	On-On	P3	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1497-ND	11.47	9.91	8.35	7301P3YZQE
	On-On	T	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1498-ND	12.19	10.53	8.87	7301TZQE
	On-Off-On	T	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1499-ND	12.76	11.02	9.28	7303TZQE
	On-On	S	D1	C	B	.500 x .642 x .424 (12.70 x 16.31 x 10.77)	CKN1526-ND	14.00	11.21	8.87	E301SD1CBE
4PDT	On-On	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1038-ND	13.82	11.94	10.06	7401SYZQE
	On-Off-On	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1137-ND	14.64	12.65	10.65	7403SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1138-ND	15.89	13.73	11.56	7405SYZQE
	On-On	P3	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1501-ND	15.30	13.22	11.13	7401P3YZQE
	On-On	S	Y	C	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1502-ND	14.19	12.26	10.32	7401SYCQE
	On-On	T	—	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1503-ND	16.02	13.84	11.66	7401TZQE
	On-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1504-ND	15.89	13.73	11.56	7408SYZQE
	On-On-On	P3	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1505-ND	18.27	15.78	13.29	7411P3YZQE
	Mom-On-Mom	P3	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1506-ND	18.27	15.78	13.29	7415P3YZQE
	On-On-On	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1139-ND	16.79	14.51	12.22	7411SYZQE
	On-On-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1140-ND	16.79	14.51	12.22	7413SYZQE
	Mom-On-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1141-ND	16.79	14.51	12.22	7415SYZQE

† UL Approved **Note:** All threaded bushings include mounting hardware.

Bushing Options

CW Splashproof

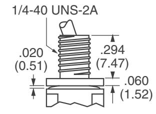

Internal actuator seal and external bushing seal washer standard.

D, H3 (Threaded)
D9 (Unthreaded)

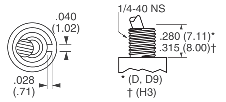

D1

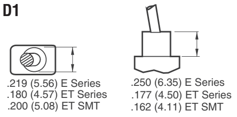

H (10-48 UNS)
H9 (Unthreaded)

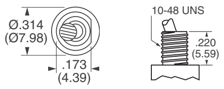

Y, Y9 (Unthreaded)

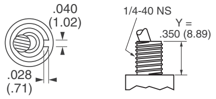

Termination Options

C

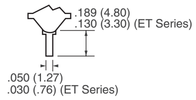

V3 (A = .460)
V4 (A = .630)

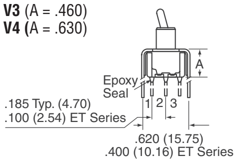

W, W6

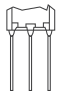

Wire-Wrap Terminal

Z

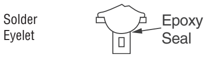

Z4

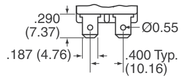

C&K

Right Angle Toggle Switches

RoHS COMPLIANT

Fig. 1

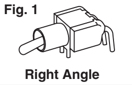

Right Angle

Fig. 2

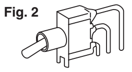

Vertical Right Angle

Actuator Options

K

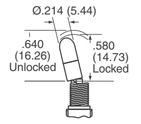

K2 Locking Lever

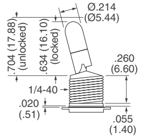

L

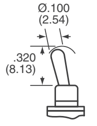

M

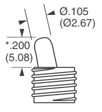

* Add .070 (1.78) for D9 bushings.

P3 Antirotation
P4 = .250" High

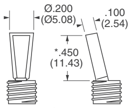

* Add .070 (1.78) for D, D9 bushings.

S

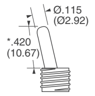

* Add .070 (1.78) for D9 bushings.

* Subtract .020 (.51) for H3 bushings.

Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Components Part No.
		Actuator	Bushing	Termination				1	25	100	
Fig. 1 — Right Angle											
SPDT	On-On	S	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1049-ND	6.18	4.95	3.92	7101SD9ABE
	On-Off-On	S	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1051-ND	6.74	5.40	4.27	7103SD9ABE
	On-On	M	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1045-ND	6.18	4.95	3.92	7101MD9ABE
	On-On	M	D9	A	G	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1046-ND	6.58	5.27	4.17	7101MD9AGE
	On-On	M	D9	A	Q	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1047-ND	6.18	4.95	3.92	7101MD9AQE
	On-Off-On	M	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1050-ND	6.74	5.40	4.27	7103MD9ABE
	Mom-Off-Mom	M	D9	A	B	.365 x .500 x .284 (9.27 x 12.70 x 7.21)	CKN1172-ND	6.86	5.49	4.35	7105MD9ABE
	On-Off-Mom	M	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1053-ND	6.86	5.49	4.35	7107MD9ABE
	On-On	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1067-ND	6.27	5.02	3.98	T101MH9ABE
	On-Off-On	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1068-ND	7.42	5.94	4.70	T103MH9ABE
	Mom-Off-Mom	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1386-ND	7.42	5.94	4.70	T105MH9ABE
	On-Off-Mom	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1387-ND	7.67	6.14	4.86	T107MH9ABE
	On-Mom	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1388-ND	7.67	6.14	4.86	T108MH9ABE
	On-On	P3	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1048-ND	8.19	6.56	5.19	7101P3D9ABE
	On-On	S	Y	A	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1456-ND	6.18	4.95	3.92	7101SYABE
	On-On	S	Y	A	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1457-ND	6.18	4.95	3.92	7101SYAQE
	On-Mom	M	D9	A	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1472-ND	6.86	5.49	4.35	7108MD9ABE
	On-On	M	D1	A	G	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1511-ND	6.68	5.34	4.23	E101MD1AGE
	On-On	M	D1	A	Q	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1512-ND	6.27	5.02	3.98	E101MD1AQE
	On-Off-On	M	D1	A	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1520-ND	7.42	5.94	4.70	E103MD1ABE
	On-On	M	D1	A	G	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1528-ND	7.26	5.82	4.60	ET01MD1AGE
	On-On	S	D1	A	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1531-ND	6.83	5.47	4.33	ET01SD1ABE
	On-Off-On	L	D1	A	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1532-ND	7.64	6.11	4.84	ET03LD1ABE
	Mom-Off-Mom	M	D1	A	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1534-ND	7.64	6.11	4.84	ET05MD1ABE
	Mom-Off-Mom	S	D1	A	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1535-ND	7.64	6.11	4.84	ET05SD1ABE
	On-On	K	—	A	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1545-ND	12.42	9.94	7.87	T101KABE
	On-On	M	H	A	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1548-ND	6.27	5.02	3.98	T101MHABE
DPDT	On-On	M	D9	A	B	.500 x .500 x .450 (12.70 x 12.70 x 11.43)	CKN1055-ND	9.37	7.50	5.94	7201MD9ABE
	On-On	M	D9	A	Q	.500 x .500 x .450 (12.70 x 12.70 x 11.43)	CKN1056-ND	9.37	7.50	5.94	7201MD9AQE
	On-On	M	H9	A	B	.320 x .360 x .352 (8.13 x 9.14 x 8.94)	CKN1069-ND	9.83	7.87	6.23	T201MH9ABE
	On-On	S	Y	A	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1480-ND	9.37	7.50	5.94	7201SYAQE
	On-Off-On	M	D9	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1484-ND	10.32	8.26	6.54	7203MD9ABE
	On-Off-Mom	M	D9	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1489-ND	10.57	8.46	6.70	7207MD9ABE
	On-On-On	M	D9	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1491-ND	11.03	8.83	6.99	7211MD9ABE
	On-On	M	D1	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1521-ND	9.83	7.87	6.23	E201MD1ABE
	On-On	M	H9	A	G	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1555-ND	11.31	9.06	7.17	T201MH9AGE
	On-Mom	S	H9	A	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1558-ND	11.37	9.10	7.21	T208SH9ABE
3PDT	On-On	M	D9	A	B	.500 x .500 x .500 (12.70 x 12.70 x 12.70)	CKN1383-ND	15.67	12.54	9.93	7301MD9ABE
	On-On	M	D1	A	G	.500 x .642 x .424 (12.70 x 16.31 x 10.77)	CKN1525-ND	12.13	10.48	8.82	E301MD1AGE
Fig. 2 — Vertical Right Angle											
SPDT	On-On	M	D9	AV2	B	.500 x .270 x .500 (12.70 x 6.86 x 12.70)	CKN1059-ND	6.52	5.22	4.14	7101MD9AV2BE
	On-Off-On	M	D9	AV2	B	.500 x .270 x .500 (12.70 x 6.86 x 12.70)	CKN1173-ND	7.08	5.67	4.49	7103MD9AV2BE
	On-Off-Mom	M	D9	AV2	B	.500 x .270 x .500 (12.70 x 6.86 x 12.70)	CKN1174-ND	7.20	5.76	4.56	7107MD9AV2BE
	On-On	M	H9	AV	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1070-ND	6.62	5.30	4.19	T101MH9AVBE
	On-On	K2	—	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1440-ND	10.38	8.31	6.58	7101K2AV2BE
	On-On	M	D9	AV2	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1443-ND	6.52	5.22	4.14	7101MD9AV2QE
	On-On	P4	D9	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1446-ND	8.53	6.83	5.41	7101P4D9AV2BE
	On-On	S	D9	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1447-ND	6.52	5.22	4.14	7101SD9AV2BE
	On-On	S	D	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1450-ND	6.52	5.22	4.14	7101SDAV2BE
	On-On	S	H	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1452-ND	7.67	6.14	4.86	7101SHAV2BE
	On-On	S	Y9	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1454-ND	6.52	5.22	4.14	7101SY9AV2BE
	On-On	S	Y	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1458-ND	6.52	5.22	4.14	7101SYAV2BE
	Mom-Off-Mom	M	D9	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1464-ND	7.20	5.76	4.56	7105MD9AV2BE
	On-On	M	D1	AV2	G	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1513-ND	7.33	5.87	4.64	E101MD1AV2GE
	On-On	M	D1	AV2	Q	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1514-ND	6.92	5.54	4.39	E101MD1AV2QE
	On-On	S	D1	AV2	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1517-ND	6.92	5.54	4.39	E101SD1AV2BE
	On-On	M	D1	AV	G	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1529-ND	7.82	6.26	4.96	ET01MD1AVGE
	On-Off-On	M	D1	AV	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1533-ND	8.19	6.56	5.19	ET03MD1AVBE
	On-Off-On	M	H9	AV	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1550-ND	7.76	6.21	4.92	T103MH9AVBE
	Mom-Off-Mom	M	H9	AV	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1552-ND	7.76	6.21	4.92	T105MH9AVBE
	On-Mom	M	H9	AV	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1553-ND	8.00	6.41	5.07	T108MH9AVBE
DPDT	On-On	M	D9	AV2	B	.500 x .650 x .565 (12.70 x 16.51 x 14.35)	CKN1384-ND	10.01	8.02	6.35	7201MD9AV2BE
	On-On	M	D9	AV2	Q	.500 x .450 x .350 (12.70 x 11.46 x 8.89)	CKN1476-ND	10.01	8.02	6.35	7201MD9AV2QE
	On-On	S	D9	AV2	B	.500 x .450 x .350 (12.70 x 11.46 x 8.89)	CKN1479-ND	10.01	8.02	6.35	7201SD9AV2BE
	Mom-Off-Mom	S	D9	AV2	B	.500 x .450 x .350 (12.70 x 11.46 x 8.89)	CKN1486-ND	10.97	8.78	6.95	7205MD9AV2BE
	On-Off-Mom	M	D9	AV2	B	.500 x .450 x .350 (12.70 x 11.46 x 8.89)	CKN1490-ND	8.23	7.11	5.99	7207MD9AV2BE
	On-On	M	H9	AV	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1556-ND	10.32	8.26	6.54	T201MH9AVBE
4PDT	On-On	M	D9	AV2	B	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1500-ND	16.32	14.10	11.87	7401MD9AV2BE
Optional Hardware and Accessories											
Dress Nut 10-48, .070" (1.78mm) high, for Series T and TP; nickel plated							CKN1183-ND	.66	.53	.42	465701201
Dress Nut 10-48, .070" (1.78mm) high, for Series T and TP; nickel plated							CKN9414-ND ***NEW!***	.66	.53	.42	298D01201
Dress Nut 1/4 x 40, .325" (8.26mm) high, for Series 7000, 8020, 8060, 8500, E, E010 and TP; nickel plated							CKN1184-ND	.47	.38	.30	702501201
Dress Nut 1/4 x 40, .118" (3.00mm) high, for Series 7000, 8020, 8060, 8500, E, E010 and TP							CKN1201-ND	.31	.25	.20	780701201
Dress Nut 1/4 x 40, .118" (3.00mm) high, for Series 7000, 8020, 8060, 8500, 9000, E, E010, T and TP; nickel plated							CKN1754-ND	.38	.30	.24	709901201
Dress Nut 1/4 x 40, .090" (2.29mm) high, for Series 7000, 8020, 8060, 8500, 9000, E, E010, T and TP; nickel plated							CKN1392-ND	.44	.36	.28	776001201
Dress Nut 15/32-32, .120" (3.05mm) high, for Series 7000 and 8500; nickel plated							CKN1202-ND	1.25	1.00	.80	895101201
Knurled Nut 1/4 x 40, .080" (2.03mm) high, for Series 7000, 8020, 8060, 8500, 9000, T and TP; nickel plated							CKN1755-ND	.44	.36	.28	778000201
Knurled Nut 1/4 x 40, .062" (1.57mm) high, for Series 7000, 8020, 8060, 8500, 9000, T and TP; nickel plated							CKN1756-ND	.35	.28	.22	796901201
Lockwasher 1/4 x 40, .402" (10.21mm) diameter; nickel plated							CKN1753-ND	.28	.23	.18	700303202
Lockwasher 15/32, .593" (15.06mm) diameter; nickel plated							CKN9155-ND	.28	.23	.18	700302202
Hex Nut 8-40, for Series 8600; nickel plated							CKN6180-ND	.29	.23	.19	775200201
Hex Nut 1/4 x 40, for Series 7000, 8020, 8060, 8500 and T; nickel plated							CKN1185-ND	.28	.23	.18	700201201
Locking Ring 1/4 x 40, .468" (11.89mm) diameter, for Series 7000, 8020, 8060, 8500, 9000, M, T and TP; nickel plated							CKN9416-ND ***NEW!***	.29	.24	.19	757200201
Locking Ring 1/4 x 40, .435" (11.05mm) diameter, for Series 7000, 8020, 8060, 8500, 9000, M, T and TP; nickel plated							CKN1817-ND	.28	.23	.18	700701201
Vinyl Toggle Cap, White, .383" (9.73mm) long, for color coding option "S" actuators, Series 7000							CKN1203-ND	.82	.66	.52	896801000
Vinyl Toggle Cap, Black, .383" (9.73mm) long, for color coding option "S" actuators, Series 7000							CKN1204-ND	.83	.66	.53	896802000
Vinyl Toggle Cap, Red, .383" (9.73mm) long, for color coding option "S" actuators, Series 7000							CKN1205-ND	.82	.66	.52	896803000

Contact Material Options

B Contacts and Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4VA maximum @ 20VAC or DC maximum

Q End Contacts: Coin silver, silver plated. Center Contact and All Terminals: Copper alloy, silver plated. Rating: 7000 Series: 5A @ 120VAC or 2A @ 250VAC; E-Series: 7.5A @ 125VAC or 3A @ 250VAC; T-Series: 3A @ 120VAC.

G End Contacts: Coin silver, with gold plate over nickel plate. Center Contact and All Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4VA maximum @ 20VAC or DC maximum or 5 amps @ 120VAC or 28VDC; 2 amps @ 250VAC.

Bushing Options

D9 (Unthreaded)
D (Threaded)

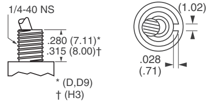

D1

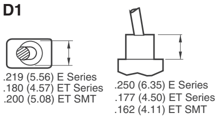

H (10-48 UNS)
H9 (Unthreaded)

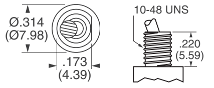

Y, Y9 (Unthreaded)

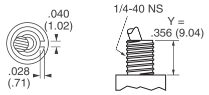

Termination Options

A

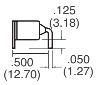

7000 Series

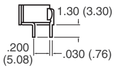

ET, T Series

AV

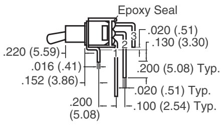

AV2

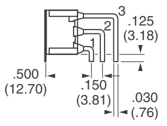

C&K

Process Sealed Toggle Switches

Withstands soldering and cleaning processes

Fig. 1

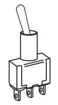

Vertical

Fig. 2

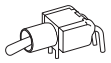

Right Angle

Fig. 3

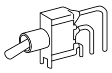

Vertical Right Angle

Fig. 4

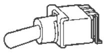

Ultra-Mini SMT

Fig. 5

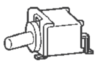

Ultra-Mini SMT

Fig. 6

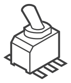

Ultra-Mini SMT

Fig. 7

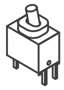

Ultra-Mini

Fig. 8

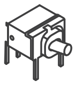

Ultra-Mini

Fig. 9

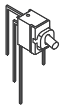

Ultra-Mini

Contact Material

Contacts and Terminals:
Copper alloy, with gold plate over nickel plate.

Rating:
0.4 VA maximum @ 20V AC or DC maximum

Fig.	Circuit	Switching Function	Options (see diagrams)			Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Components Part No.
			Actuator	Bushing	Termination			1	25	100	
1	SPDT	On-On	S	D1	C	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1074-ND◆	5.69	4.56	3.61	E101SD1CBE
		On-Off-On	S	D1	C	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1075-ND◆	6.83	5.47	4.33	E103SD1CBE
		Mom-Off-Mom	S	D1	C	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1076-ND◆	6.83	5.47	4.33	E105SD1CBE
		On-On	S	D1	C	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1071-ND◆†	6.24	5.00	3.96	ET01SD1CBE
		On-Off-On	S	D1	C	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1080-ND◆†	7.05	5.64	4.47	ET03SD1CBE
		On-Mom	S	D1	C	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1081-ND◆†	7.05	5.64	4.47	ET08SD1CBE
		On-On	M	D1	V3	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1072-ND◆†	6.83	5.47	4.33	ET01MD1V3BE
	DPDT	On-On	S	D1	C	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1077-ND◆	8.72	6.98	5.52	E201SD1CBE
		On-On	S	D1	C	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1082-ND◆†	9.33	7.47	5.92	ET21SD1CBE
		On-Off-On	S	D1	C	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1083-ND◆†	10.63	8.51	6.74	ET23SD1CBE
		On-On	M	D1	A	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1086-ND◆†	10.45	8.36	6.62	ET21MD1ABE
		On-Off-On	M	D1	A	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1177-ND◆	11.74	9.40	7.44	ET23MD1ABE
2	SPDT	On-On	S	D1	A	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1061-ND◆†	6.27	5.02	3.98	E101SD1ABE
		On-On	M	D1	A	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1060-ND◆†	6.27	5.02	3.98	E101MD1ABE
		Mom-Off-Mom	M	D1	A	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1062-ND◆†	7.42	5.94	4.70	E105MD1ABE
		On-On	M	D1	A	.365 x .320 x .249 (9.27 x 8.13 x 6.32)	CKN1073-ND◆†	6.83	5.47	4.33	ET01MD1ABE
		On-Off-On	M	D1	A	.365 x .320 x .249 (9.27 x 8.13 x 6.32)	CKN1084-ND◆†	7.64	6.11	4.84	ET03MD1ABE
		On-Mom	M	D1	A	.365 x .320 x .249 (9.27 x 8.13 x 6.32)	CKN1085-ND◆†	7.64	6.11	4.84	ET08MD1ABE
3	SPDT	On-On	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1065-ND◆†	6.92	5.54	4.39	E101MD1AV2BE
		On-Off-On	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1078-ND◆	8.07	6.46	5.11	E103MD1AV2BE
		Mom-Off-Mom	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1079-ND◆	8.07	6.46	5.11	E105MD1AV2BE
		On-On	M	D1	AV	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1385-ND◆	7.39	5.91	4.68	ET01MD1AVBE
		On-Off-Mom	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1178-ND◆	8.07	6.46	5.11	E107MD1AV2BE
	DPDT	On-On	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1179-ND◆	10.48	8.39	6.64	E201MD1AV2BE
		On-Off-On	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1180-ND◆	11.68	9.35	7.40	E203MD1AV2BE

Fig.	Circuit	Switching Function	Options (see diagrams)			Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing	C&K Components Part No.
			Actuator	Bushing	Termination			1	25	100			
Ultra Mini Toggles (withstands soldering and cleaning processes)													
4	SPDT	On-Off-On	M	D1	—	.350 x .320 x .200 (8.89 x 8.13 x 5.08)	CKN1094CT-ND	8.32	7.18	5.77	—	—	ET03MD1SAKE
Ultra Mini Toggles (withstands soldering and cleaning processes) — RoHS Compliant													
4	SPDT	On-On	M	D1	—	.350 x .320 x .200 (8.89 x 8.13 x 5.08)	CKN9114CT-ND	6.97	5.58	4.42	CKN9114TR-ND	2508.84/600	ET01MD1SAPE
	SPDT	On-Off-On	M	D1	—	.350 x .320 x .200 (8.89 x 8.13 x 5.08)	CKN9126CT-ND	7.68	6.15	4.87	CKN9126TR-ND	2766.00/600	ET03MD1SAPE
	SPDT	Mom-Off-Mom	M	D1	—	.350 x .320 x .200 (8.89 x 8.13 x 5.08)	CKN9124CT-ND	7.68	6.15	4.87	CKN9124TR-ND	2766.00/600	ET05MD1SAPE
5	SPDT	On-On	M	None	—	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN1783CT-ND	6.45	5.96	5.46	CKN1783TR-ND	2143.80/600	GT11MSABE
	SPST	Off-On	M	None	—	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9049CT-ND	6.85	5.91	4.75	CKN9049TR-ND	2277.72/600	GT12MSABE
	SPDT	On-Off-On	M	None	—	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN2091CT-ND	7.38	6.36	5.11	CKN2091TR-ND	2451.60/600	GT13MSABE
6	SPDT	On-On	M	None	—	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN1784CT-ND	6.93	6.40	5.33	CKN1784TR-ND	767.52/200	GT11MSCBE
	SPDT	Off-On	M	None	—	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN9050CT-ND	7.64	6.59	5.29	CKN9050TR-ND	940.40/200	GT12MSCBE
	SPDT	On-Off-On	M	None	—	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN2092CT-ND	8.18	7.05	5.67	CKN2092TR-ND	1006.80/200	GT13MSCBE
	DPDT	On-On	M	None	—	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN2089CT-ND	9.43	8.13	6.54	CKN2089TR-ND	1161.20/200	GT21MSCBE
7	SPDT	On-On	M	None	C	.276 x .177 x .228 (7.01 x 4.50 x 5.79)	CKN1782-ND§	5.87	4.70	3.73	—	—	GT11MCBE
	DPDT	On-On	M	None	C	.276 x .177 x .228 (7.01 x 4.50 x 5.79)	CKN2088-ND§	7.90	6.32	5.01	—	—	GT21MCBE
8	SPDT	On-On	M	None	A	.276 x .212 x .273 (7.01 x 5.83 x 6.93)	CKN1780-ND§	6.61	5.29	4.19	—	—	GT11MABE
	SPST	Off-On	M	None	A	.276 x .212 x .273 (7.01 x 5.38 x 6.93)	CKN9048-ND§	7.04	5.64	4.46	—	—	GT12MABE
	DPDT	On-On	M	None	A	.276 x .212 x .273 (7.01 x 5.38 x 6.93)	CKN2087-ND§	8.93	7.15	5.66	—	—	GT21MABE
9	SPDT	On-On	M	None	AV	.297 x .215 x .273 (7.54 x 5.46 x 6.93)	CKN1781-ND§	6.61	5.29	4.19	—	—	GT11MAVBE
	SPDT	On-On	M	None	AV	.297 x .215 x .273 (7.54 x 5.46 x 6.93)	CKN2090-ND§	7.56	6.05	4.79	—	—	GT13MAVBE

◆ ***RoHS Compliant*** † UL Approved § Bulk parts

Actuator Options

M

* Add .070 (1.78) for D bushings.

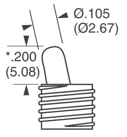

S

* Add .070 (1.78) for D bushings.

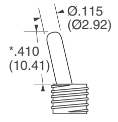

Bushing Options

D1

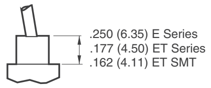

Termination Options

A

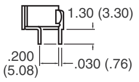

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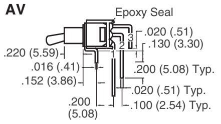

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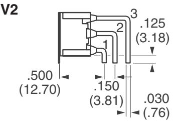

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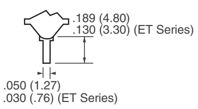

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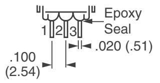

Tyco Electronics

Authorized Distributor

Alcoswitch

Toggle Switches

RoHS COMPLIANT

MT Series:
Material Specifications: • Contacts: Gold flash over silver • Case Material: Thermoset 94V-0 • Terminals: Gold flash **Environmental Specifications:** • Operating Temperature: -20°C ~ 80°C **Typical Performance Characteristics:** • Contact Rating: 6A @ 125VAC, 3A @ 250VAC, 4A @28VDC • Initial Contact Resistance: 20mΩ maximum • Insulation Resistance: 1,000MΩ minimum @ 500VDC minimum for 1 minute • Dielectric Strength: 1,500VAC

TT Series:
Material Specifications: • Contacts: Gold over nickel • Case Material: Thermoplastic 94V-0 **Environmental Specifications:** • Operating Temperature: -30°C ~ 85°C **Typical Performance Characteristics:** • Contact Rating: 0.4VA maximum @ 20VDC or peak AC • Initial Contact Resistance: 20mΩ maximum • Insulation Resistance: 1,000MΩ @ 500VDC minimum • Dielectric Strength: 1,000V RMS

Gemini Series:
Design Features: • Meets CSA Requirements • Toggle: Machined brass, heavy nickel plated • Bushing and Frame: Rigid one piece die cast, copper flashed, heavy nickel plated • Fixed Contact: Welded construction, selective placement of precious metal • Movable Contact: "Captured" design eliminates possibility of displacement due to shock • Terminal Seal: Epoxy sealing of terminals is standard **Material Specifications:** • Contacts: Gold/Gold flash, Silver/Tin lead • Case Material: Thermoset 94V-0 • Terminal Seal: Epoxy **Environmental Specifications:** • Operating Temperature: -20°C ~ 85°C **Typical Performance Characteristics:** • Contact Rating: Gold: 0.4VA @ 20VAC/DC; Silver: 2A @ 250VAC, 5A @ 125VAC • Initial Contact Resistance: 30mΩ maximum • Insulation Resistance: 1,000MΩ @ 500VDC • Dielectric Strength: 1,000V RMS

Fig. 1

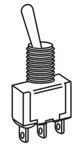

Fig. 2

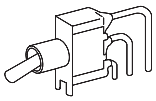

Fig. 3

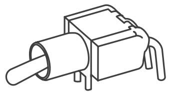

Fig.	Circuit	Switching Function	Options (see diagrams)			Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			Alcoswitch Part No.
			Actuator	Bushing	Termination			1	25	100	
MT Green Series											
1	SPDT	On-On	A2	B1	T1	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1468-ND	4.77	3.85	3.32	MTA106D04
	SPDT	On-On	A2	B1	T2	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1469-ND	5.92	4.78	4.11	MTA106DPC04
	SPDT	On-Off-On	A2	B1	T1	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1470-ND	5.92	4.78	4.11	MTA106E04
	SPDT	On-Off-On	A2	B1	T2	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1471-ND	7.63	6.15	5.29	MTA106EPC04
	SPDT	On-Mom	A2	B1	T1	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1472-ND	5.92	4.78	4.11	MTA106F04
	SPDT	Mom-Off-Mom	A2	B1	T1	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1473-ND	5.92	4.78	4.11	MTA106G04
	SPDT	On-Off-Mom	A2	B1	T1	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1474-ND	5.92	4.78	4.11	MTA106H04
	DPDT	On-On	A2	B1	T1	.512 x .512 x .394 (13.00 x 13.00 x 10.00)	450-1475-ND	8.07	6.94	5.95	MTA206N04
	DPDT	On-On	A2	B1	T2	.512 x .512 x .394 (13.00 x 13.00 x 10.00)	450-1476-ND	7.87	6.77	5.80	MTA206NPC04
	DPDT	On-Off-On	A2	B1	T1	.512 x .512 x .394 (13.00 x 13.00 x 10.00)	450-1477-ND	7.69	6.20	5.34	MTA206P04
	SP3T	On-On-On	A2	B1	T1	.512 x .512 x .394 (13.00 x 13.00 x 10.00)	450-1478-ND	10.32	8.87	7.61	MTA206PA04
	DPDT	On-Mom	A2	B1	T1	.512 x .512 x .394 (13.00 x 13.00 x 10.00)	450-1663-ND	7.94	6.40	5.51	MTA206R04
	3PDT	On-On	A2	B1	T1	.512 x .701 x .394 (13.00 x 17.80 x 10.00)	450-1479-ND	12.17	10.47	8.97	MTA306D04
	SPDT	On-On	A2	B2	T1	.512 x .315 x .412 (13.00 x 8.00 x 10.46)	450-1480-ND	7.75	6.67	5.72	MTE106D04
	DPDT	On-On	A2	B2	T1	.512 x .512 x .412 (13.00 x 13.00 x 10.46)	450-1481-ND	8.81	7.58	6.49	MTE206N04
	SPDT	On-On	A3	B1	T1	.512 x .315 x .393 (13.00 x 8.00 x 9.98)	450-1482-ND	5.92	4.78	4.11	MTF106D04
	DPDT	On-On	A3	B1	T1	.512 x .512 x .393 (13.00 x 13.00 x 9.98)	450-1483-ND	7.87	6.77	5.80	MTF206N04
	SPDT	On-On	A4	B3	T1	.512 x .315 x .354 (13.00 x 8.00 x 8.99)	450-1484-ND	8.12	6.99	5.99	MTG106D04
	DPDT	On-On	A4	B3	T1	.512 x .512 x .354 (13.00 x 13.00 x 8.99)	450-1485-ND	10.32	8.87	7.61	MTG206N04
	SPDT	On-On	A5	B1	T1	.512 x .315 x .432 (13.00 x 8.00 x 10.97)	450-1486-ND	11.31	9.73	8.34	MTL106D04
	DPDT	On-On	A5	B1	T1	.512 x .512 x .432 (13.00 x 13.00 x 10.97)	450-1487-ND	13.08	11.25	9.64	MTL206N04
	3PDT	On-On	A5	B1	T1	.512 x .701 x .530 (13.00 x 17.80 x 13.46)	450-1488-ND	15.90	13.68	11.72	MTL306D04
	SPDT	On-On	A6	B1	T2	.512 x .315 x .394 (13.00 x 8.00 x 10.00)	450-1489-ND	5.92	4.78	4.11	MTM106DPC04
TT Series, Tiny											
1	SPDT	On-On	A7	B4	T2	.320 x .206 x .348 (8.13 x 5.23 x 8.84)	450-1385-ND	5.55	4.48	3.85	TT11DGPC104
	SPDT	On-Off-On	A7	B4	T2	.320 x .206 x .348 (8.13 x 5.23 x 8.84)	450-1387-ND	8.15	6.58	5.66	TT11EGPC104
	DPDT	On-On	A7	B4	T2	.363 x .320 x .348 (9.22 x 8.13 x 8.84)	450-1347-ND	9.06	7.80	6.68	TT21NGPC104
	SPDT	On-On	A3	B1	T2	.320 x .206 x .348 (8.13 x 5.23 x 8.84)	450-1382-ND	8.07	6.94	5.95	TT11DGPC9T1/404
	SPDT	On-Off-On	A3	B1	T2	.320 x .206 x .348 (8.13 x 5.23 x 8.84)	450-1383-ND	9.01	7.75	6.64	TT11EGPC9T1/404
2	SPDT	On-On	A8	B4	T3	.320 x .206 x .559 (8.13 x 5.23 x 14.20)	450-1386-ND	6.94	5.60	4.82	TT11DGVRA104
	SPDT	On-Off-On	A8	B4	T3	.320 x .206 x .559 (8.13 x 5.23 x 14.20)	450-1388-ND	9.38	8.07	6.91	TT11EGVRA104
Gemini Series											
1	SPDT	On-On	A1	B5	T1	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1523-ND	3.75	3.03	2.61	A101SYZQ04
	SPDT	On-Off-On	A1	B5	T1	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1527-ND	3.84	3.10	2.67	A103SYZQ04
	SPDT	Mom-Off-Mom	A1	B5	T1	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1531-ND	4.34	3.50	3.01	A105SYZQ04
	SPDT	On-On	A1	B5	T1	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1522-ND★	3.84	3.10	2.67	A101SYZB04
	SPDT	On-Off-On	A1	B5	T1	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1526-ND★	4.19	3.38	2.91	A103SYZB04
	SPDT	Mom-Off-Mom	A1	B5	T1	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1530-ND★	4.53	3.65	3.14	A105SYZB04
	DPDT	On-On	A1	B5	T1	.500 x .450 x .358 (12.70 x 11.43 x 9.09)	450-1533-ND	3.66	2.95	2.54	A201SYZQ04
	DPDT	On-Off-On	A1	B5	T1	.500 x .450 x .358 (12.70 x 11.43 x 9.09)	450-1534-ND	4.34	3.50	3.01	A203SYZQ04
	DPDT	Mom-Off-Mom	A1	B5	T1	.500 x .450 x .358 (12.70 x 11.43 x 9.09)	450-1535-ND	4.65	3.75	3.23	A205SYZQ04
	SP3T	On-On-On	A1	B5	T1	.500 x .450 x .358 (12.70 x 11.43 x 9.09)	450-1536-ND	6.14	4.95	4.26	A211SYZQ04
	SPDT	On-On	A1	B5	T2	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1521-ND★	4.03	3.25	2.80	A101SYCB04
	SPDT	On-Off-On	A1	B5	T2	.500 x .265 x .358 (12.70 x 6.73 x 9.09)	450-1525-ND★	4.03	3.25	2.80	A103SYCB04
3	SPDT	On-On	A1	B5	T4	.500 x .265 x .500 (12.70 x 6.73 x 12.70)	450-1520-ND★	3.84	3.10	2.67	A101SYAB04

★ Gemini Series Gold Contacts

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Alcoswitch Part No.
Splashproof Boots						
1	Splashproof Half-Boot, 1/4-40 for TT, MTA and Gemini Series, Black	450-1637-ND	6.18	5.32	4.89	BT1440004
	Splashproof Half-Boot, 15/32-32 for MTG Series, Black	450-1497-ND	6.73	5.43	5.21	BT1532004
2	Splashproof Full-Boot, 10-48 for TT Series, Black	450-1546-ND	5.83	4.70	4.52	B1048004
	Splashproof Full-Boot, 15/32-32 for MTG and Gemini Series, Black	450-1548-ND	6.73	5.43	5.21	B1532004

Actuator Options

A1

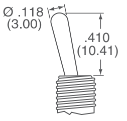

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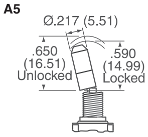

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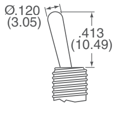

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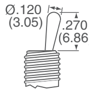

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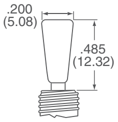

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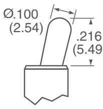

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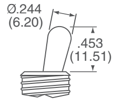

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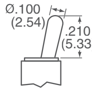

Bushing Options

B1

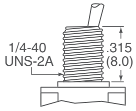

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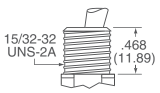

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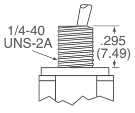

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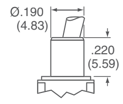

B5

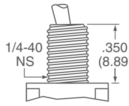

Termination Options

T1

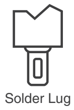

T3

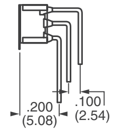

T2

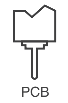

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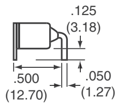

Fig. 1

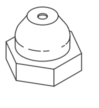

Fig. 2

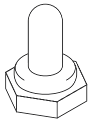

Carling Technologies™

Toggle Switches

Fig. 1

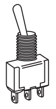

Fig. 2

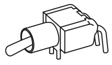

Actuator Options

T1

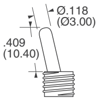

T2

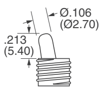

T6

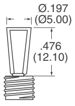

T8 Extra large bat

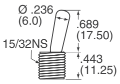

Contact Material Options

Q: Moveable contact and terminals: copper alloy, silver plate; Rating: 5A @ 125VAC or 28VDC, 2A @ 250VAC

R: Moveable contact and terminals: copper alloy with gold plate over nickel plate; Rating: 0.4VA maximum @ 20V maximum (AC/DC)

Fig.	Circuit	Switching Function	Actuator	Bushing	Termi-nation	Contact Material	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
Series 2M1 – Miniature											
1	SPDT	On-On	T1	B1	M1	Q	432-1143-ND◆	3.15	2.43	1.70	2M1-SP1-T1-B1-M1QE
	SPDT	On-Off-On	T1	B1	M1	Q	432-1144-ND◆	3.97	3.05	2.14	2M1-SP3-T1-B1-M1QE
	SPDT	Mom-Off-Mom	T1	B1	M1	Q	432-1145-ND	4.23	3.25	2.28	2M1-SP4-T1-B1-M1QE
	SPDT	On-Off-Mom	T1	B1	M1	Q	432-1146-ND◆	4.23	3.25	2.28	2M1-SP5-T1-B1-M1QE
	SPDT	On-Mom	T1	B1	M1	Q	432-1147-ND	3.77	2.90	2.03	2M1-SP2-T1-B1-M1QE
	DPDT	On-On	T1	B1	M1	Q	432-1148-ND	4.29	3.30	2.31	2M1-DP1-T1-B1-M1QE
	DPDT	On-Off-On	T1	B1	M1	Q	432-1149-ND◆	4.91	3.78	2.65	2M1-DP3-T1-B1-M1QE
	DPDT	On-Mom	T1	B1	M1	Q	432-1150-ND	4.91	3.78	2.65	2M1-DP2-T1-B1-M1QE
	3PDT	On-On	T1	B1	M1	Q	432-1151-ND◆	9.13	7.03	4.92	2M1-3P1-T1-B1-M1QE
	4PDT	On-On	T1	B1	M1	Q	432-1152-ND◆	10.24	7.88	5.52	2M1-4P1-T1-B1-M1QE
	SPDT	On-On	T6	B1	M1	Q	432-1153-ND◆	3.35	2.58	1.81	2M1-SP1-T6-B1-M1QE
	SPDT	On-Off-On	T6	B1	M1	Q	432-1154-ND	4.16	3.20	2.24	2M1-SP3-T6-B1-M1QE
	SPDT	On-Mom	T6	B1	M1	Q	432-1155-ND◆	3.97	3.05	2.14	2M1-SP2-T6-B1-M1QE
	DPDT	On-On	T6	B1	M1	Q	432-1156-ND◆	4.52	3.48	2.44	2M1-DP1-T6-B1-M1QE
	SPDT	On-On	T8	B0	M1	Q	432-1157-ND	4.45	3.43	2.40	2M1-SP1-T8-B0-M1QE
	SPDT	On-Off-On	T8	B0	M1	Q	432-1158-ND	5.23	4.03	2.82	2M1-SP3-T8-B0-M1QE
	SPDT	On-Mom	T8	B0	M1	Q	432-1159-ND	5.01	3.85	2.70	2M1-SP2-T8-B0-M1QE
	DPDT	On-On	T8	B0	M1	Q	432-1160-ND	5.56	4.28	3.00	2M1-DP1-T8-B0-M1QE
	SPDT	On-On	T1	B9	M1	Q	432-1161-ND	3.35	2.58	1.81	2M1-SP1-T1-B9-M1QE
	SPDT	On-Off-On	T1	B9	M1	Q	432-1162-ND	4.16	3.20	2.24	2M1-SP3-T1-B9-M1QE
	DPDT	On-On	T1	B9	M1	Q	432-1163-ND	4.52	3.48	2.44	2M1-DP1-T1-B9-M1QE
	SPDT	On-On	T1	B1	M2	Q	432-1168-ND◆	3.15	2.43	1.70	2M1-SP1-T1-B1-M2QE
	SPDT	On-Off-On	T1	B1	M2	Q	432-1169-ND◆	3.97	3.05	2.14	2M1-SP3-T1-B1-M2QE
	SPDT	On-Mom	T1	B1	M2	Q	432-1170-ND	3.77	2.90	2.03	2M1-SP2-T1-B1-M2QE
	DPDT	On-On	T1	B1	M2	Q	432-1171-ND◆	4.29	3.30	2.31	2M1-DP1-T1-B1-M2QE
	DPDT	On-Off-On	T1	B1	M2	Q	432-1172-ND	4.91	3.78	2.65	2M1-DP3-T1-B1-M2QE
	DPDT	On-Mom	T1	B1	M2	Q	432-1173-ND	4.91	3.78	2.65	2M1-DP2-T1-B1-M2QE
2	SPDT	On-On	T2	B4	M6	R	432-1164-ND	3.51	2.70	1.89	2M1-SP1-T2-B4-M6RE
	SPDT	On-Off-On	T2	B4	M6	R	432-1165-ND	4.32	3.33	2.33	2M1-SP3-T2-B4-M6RE
	SPDT	On-Mom	T2	B4	M6	R	432-1166-ND◆	4.13	3.18	2.23	2M1-SP2-T2-B4-M6RE
	DPDT	On-On	T2	B4	M6	R	432-1167-ND	4.84	3.73	2.61	2M1-DP1-T2-B4-M6RE

◆ ***RoHS Compliant***

Termination Options

M1

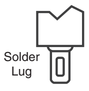

M2

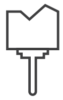

PCB

M6

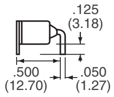

Single Pole Shown

Bushing Options

B1

Standard Keyway Thread

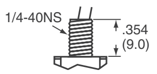

B4

Short Keyway Non-Thread

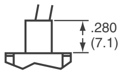

B9

Splash-proof

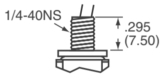

B0

15/32 Thread Bushing

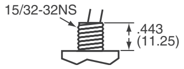

Pushbutton Switches

Fig. 1

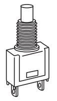

Fig. 2

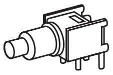

Fig. 3

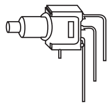

Fig. 4

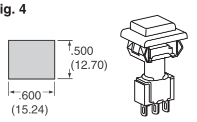

Contact Material Options

Q: Moveable contact & terminals: copper alloy, silver plate; Rating: 1A@ 125VAC or 28VDC

R: Moveable contact & terminals: copper alloy with gold plate over nickel plate; Rating 0.4VA maximum @ 20V maximum (AC/DC)

G: Moveable contact & terminals: copper alloy, silver plate; Terminals: silver plate with outer layer in gold plating; Rating 1A@ 120VAC or 28VDC

Termination Options

M1

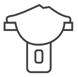

Solder Eyelet

M6

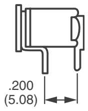

M7

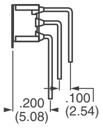

Bushing Options

B5 - (shown) **B6 -** Unthreaded

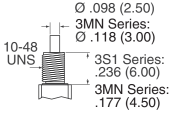

B11

Threaded shown with flat

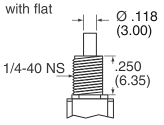

Fig.	Circuit	Switching Function	Bushing	Termi-nation	Contact Material	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
Series 3S1 — Sub-Miniature Pushbutton Switch										
1	SPDT	Mom(N/C)	B5	M1	Q	432-1175-ND	5.01	3.85	2.70	3S1-SP8-B5-M1QE
2	SPDT	Mom(N/C)	B6	M6	R	432-1179-ND	5.56	4.28	3.00	3S1-SP8-B6-M6RE
Series 3MN — Snap-Acting Miniature Pushbutton Switch										
1	DPDT	Mom(N/C)	B11	M1	G	432-1184-ND	8.26	6.35	4.45	3MN-DP7-P1-B11-M1GE
					R	432-1185-ND	8.26	6.35	4.45	3MN-DP7-P1-B11-M1RE
2	SPDT	Mom(N/C)	B6	M6	G	432-1192-ND	5.85	4.50	3.15	3MN-SP7-P1-B6-M6GE
					R	432-1193-ND	5.85	4.50	3.15	3MN-SP7-P1-B6-M6RE
3	SPDT	Mom(N/C)	B6	M7	G	432-1194-ND	5.85	4.50	3.15	3MN-SP7-P1-B6-M7GE
					R	432-1195-ND	5.85	4.50	3.15	3MN-SP7-P1-B6-M7RE
4	DPDT	Mom(N/C)	—	M1	G	432-1188-ND	8.71	6.70	4.69	3MN-DP7-AP2/22-M1GE
					R	432-1189-ND	8.71	6.70	4.69	3MN-DP7-AP2/22-M1RE

Pushbutton Switch Accessories

RoHS COMPLIANT

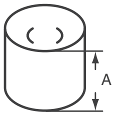

Cap Color	Cap Diameter Inch (mm)	Cap Height - Dim. A Inch (mm)	Plunger Diameter Inch (mm)	Digi-Key Part No.	Pricing 1	25	100	Carling Technologies Part No.
Series 3S1 — Pushbutton Caps								
Red	.197 (5.0)	.158 (4.0)	.098 (2.5)	432-1220-ND	.20	2.63	7.20	3S1-C13
White	.291 (7.4)	.138 (3.5)	.098 (2.5)	432-1221-ND	.20	2.63	7.20	3S1-C21
Series 3MN — Pushbutton Caps								
White	.382 (9.7)	.193 (4.9)	.118 (3.0)	432-1227-ND	.20	2.63	7.20	3MN-C21
Black				432-1228-ND	.20	2.63	7.20	3MN-C22
Red				432-1229-ND	.20	2.63	7.20	3MN-C23

E•SWITCH™ Toggle Switches

Fig. 1 — Vertical

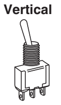

Fig. 2 — Horizontal Right Angle

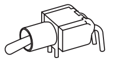

Fig. 3 — Vertical Right Angle

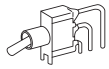

Note: All switches come complete with mounting hardware.

Contact Material:

Q **(Silver): Fixed terminal and moving contact:** Silver plated over copper alloy **Contact Rating:** 5A @120VAC or 28VDC; 2A @ 250VAC

R **(Gold): Fixed terminal and moving contact:** Copper alloy with gold plate over nickel plate **Contact Rating:** 0.4VA maximum at 20VAC or DC maximum

Fig.	Circuit	Switching Function	Options (see diagrams)			Contact Material	Dim. Inch (mm) L x W x H	Digi-Key Part No.	Price Each			E-Switch Part No.
			Actuator	Bushing	Termination				1	10	100	
100 Series — Miniature Toggle Switches (Metal Bushing)												
1	SPDT	On-On	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2350-ND	3.42	3.08	2.63	100SP1T1B1M1QEH
	SPDT	On-On	T1	B1	M1	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2351-ND	3.72	3.35	2.86	100SP1T1B1M1REH
	SPDT	On-On	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2352-ND	3.42	3.08	2.63	100SP1T1B1M2QEH
	SPDT	On-On	T1	B1	M2	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2353-ND	3.81	3.43	2.93	100SP1T1B1M2REH
	SPDT	On-On	T1	B1	M5	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2354-ND	4.44	4.00	3.41	100SP1T1B1M51REH
	SPDT	On-On	T1	B4	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2355-ND	3.43	3.09	2.63	100SP1T1B4M2QE
	SPDT	On-On	T1	B6	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2357-ND	3.93	3.54	3.02	100SP1T1B6M1QEH
	SPDT	On-On	T1	B9	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2358-ND	4.08	3.68	3.13	100SP1T1B9M1QEH
	SPDT	On-On	T2	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2359-ND	3.42	3.08	2.63	100SP1T2B1M1QEH
	SPDT	On-On	T2	B3	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2360-ND	3.42	3.08	2.63	100SP1T2B3M1QEH
	SPDT	On-On	T2	B3	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2361-ND	3.42	3.08	2.63	100SP1T2B3M2QEH
	SPDT	On-On	T4	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2367-ND	3.57	3.22	2.74	100SP1T4B1M1QEH
	SPDT	On-On	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2368-ND	4.65	4.19	3.57	100SP1T6B11M1QEH
	SPDT	On-On	T6	B11	M1	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2369-ND	5.10	4.59	3.91	100SP1T6B11M1REH
	SPDT	On-On	T6	B11	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2370-ND	4.71	4.24	3.62	100SP1T6B11M2QEH
	SPDT	On-On	T8	B13	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2372-ND	5.07	4.57	3.89	100SP1T8B13M1QEH
	SPDT	On-Mom	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2373-ND	3.66	3.30	2.81	100SP2T1B1M1QEH
	SPDT	On-Mom	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2374-ND	3.66	3.30	2.81	100SP2T6B11M1QEH
	SPDT	On-Off-On	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2375-ND	3.84	3.46	2.95	100SP3T1B1M1QEH
	SPDT	On-Off-On	T1	B1	M1	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2376-ND	3.45	3.11	2.65	100SP3T1B1M1REH
	SPDT	On-Off-On	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2377-ND	3.84	3.46	2.95	100SP3T1B1M2QEH
	SPDT	On-Off-On	T1	B9	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2380-ND	4.50	4.05	3.45	100SP3T1B9M1QEH
	SPDT	On-Off-On	T4	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2385-ND	4.02	3.62	3.09	100SP3T4B1M1QEH
	SPDT	On-Off-On	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2386-ND	4.24	3.82	3.26	100SP3T6B11M1QEH
	SPDT	On-Off-On	T8	B13	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2387-ND	5.52	4.97	4.24	100SP3T8B13M1QEH
	SPDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2388-ND	4.35	3.92	3.34	100SP4T1B1M1QEH
	SPDT	Mom-Off-Mom	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2389-ND	4.47	4.03	3.43	100SP4T1B1M2QEH
	SPDT	Mom-Off-Mom	T1	B9	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2390-ND	5.01	4.51	3.85	100SP4T1B9M1QEH
	SPDT	Mom-Off-Mom	T6	B11	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2392-ND	5.61	5.05	4.31	100SP4T6B11M2QEH
	SPDT	Mom-Off-Mom	T6	B12	VS5	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG4563-ND	5.84	5.26	4.48	100SP4T6B12VS5REH
	SPDT	On-Off-Mom	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2393-ND	4.62	4.16	3.55	100SP5T1B1M1QEH
	SPDT	On-Off-Mom	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2394-ND	3.42	3.08	2.63	100SP5T1B1M2QEH
	SPDT	On-Off-Mom	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2397-ND	5.85	5.27	4.49	100SP5T6B11M1QEH
	DPDT	On-On	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2398-ND	3.81	3.43	2.92	100DP1T1B1M1QEH
	DPDT	On-On	T1	B1	M1	R	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2399-ND	5.04	4.54	3.87	100DP1T1B1M1REH
	DPDT	On-On	T1	B1	M2	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2400-ND	3.81	3.43	2.92	100DP1T1B1M2QEH
	DPDT	On-On	T1	B1	M2	R	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2401-ND	5.04	4.54	3.87	100DP1T1B1M2REH
	DPDT	On-On	T2	B3	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2403-ND	4.56	4.11	3.50	100DP1T2B3M1QEH
	DPDT	On-On	T4	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2407-ND	4.74	4.27	3.64	100DP1T4B1M1QEH
	DPDT	On-On	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2408-ND	6.30	5.67	4.83	100DP1T6B11M1QEH
	DPDT	On-On	T6	B11	M1	R	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2409-ND	6.30	5.67	4.83	100DP1T6B11M1REH
	DPDT	On-On	T8	B13	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2410-ND	6.24	5.62	4.79	100DP1T8B13M1QEH
	DPDT	On-Mom	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2411-ND	4.83	4.35	3.71	100DP2T1B1M1QEH
	DPDT	On-Mom	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2412-ND	4.50	4.05	3.45	100DP2T6B11M1QEH
	DPDT	On-Off-On	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2413-ND	5.34	4.81	4.10	100DP3T1B1M1QEH
	DPDT	On-Off-On	T1	B1	M2	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2414-ND	5.34	4.81	4.10	100DP3T1B1M2QEH
	DPDT	On-Off-On	T1	B9	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2415-ND	6.00	5.40	4.60	100DP3T1B9M1QEH
	DPDT	On-Off-On	T4	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2417-ND	5.52	4.97	4.24	100DP3T4B1M1QEH
	DPDT	On-Off-On	T8	B13	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2418-ND	7.02	6.32	5.39	100DP3T8B13M1QEH
	DPDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2419-ND	5.64	5.08	4.33	100DP4T1B1M1QEH
	DPDT	Mom-Off-Mom	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2420-ND	5.70	5.13	4.37	100DP4T6B11M1QEH
	DPDT	On-Off-Mom	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2421-ND	5.85	5.27	4.49	100DP5T1B1M1QEH
	DPDT	On-Off-Mom	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2422-ND	7.11	6.40	5.46	100DP5T6B11M1QEH
	3PDT	On-On	T1	B1	M1	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2424-ND	9.39	8.46	7.20	1003P1T1B1M1QEH
	3PDT	On-On	T1	B1	M2	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2425-ND	9.39	8.46	7.20	1003P1T1B1M2QEH
	3PDT	On-Off-On	T1	B1	M1	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2426-ND	9.99	9.00	7.66	1003P3T1B1M1QEH
	3PDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2427-ND	10.95	9.86	8.40	1003P4T1B1M1QEH
	4PDT	On-On	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 16.51 x 12.06)	EG2428-ND	13.35	12.02	10.24	1004P1T1B1M1QEH
	4PDT	On-Off-On	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 21.59 x 12.06)	EG2429-ND	14.28	12.86	10.95	1004P3T1B1M1QEH
	4PDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 21.59 x 12.06)	EG2430-ND	15.15	13.64	11.62	1004P4T1B1M1QEH
	DPDT	On-On	T2	B4	VS2	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2406-ND	6.33	5.70	4.86	100DP1T2B4VS2RE
	DPDT	On-Off-On	T2	B4	VS2	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2416-ND	7.11	6.40	5.46	100DP3T2B4VS2RE
	SPDT	On-On	T2	B4	VS2	Q	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2365-ND	4.71	4.25	3.62	100SP1T2B4VS2QE
	SPDT	On-On	T2	B4	VS2	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2366-ND	5.01	4.51	3.84	100SP1T2B4VS2RE
	SPDT	On-Off-On	T2	B4	VS2	Q	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2383-ND	5.14	4.63	3.95	100SP3T2B4VS2QE
	SPDT	On-Off-On	T2	B4	VS2	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2384-ND	5.44	4.90	4.17	100SP3T2B4VS2RE
	SPDT	On-Off-On	T1	B4	VS2	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2379-ND	5.44	4.90	4.17	100SP3T1B4VS2RE
	SPDT	Mom-Off-Mom	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2391-ND	5.91	5.32	4.53	100SP4T2B4M6RE
	SPDT	On-Off-Mom	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2395-ND	6.16	5.55	4.73	100SP5T2B4M6RE
	DPDT	On-On	T2	B4	M6	Q	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2404-ND	5.91	5.32	4.53	100DP1T2B4M6QE
	DPDT	On-On	T2	B4	M6	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2405-ND	6.38	5.74	4.89	100DP1T2B4M6RE
	SPDT	On-On	T1	B4	M6	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2356-ND	4.97	4.48	3.81	100SP1T1B4M6RE
2	SPDT	On-On	T2	B4	M6	Q	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2362-ND	4.66	4.20	3.58	100SP1T2B4M6QE
	SPDT	On-On	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2363-ND	4.97	4.48	3.81	100SP1T2B4M6RE
	SPDT	On-On	T6	B12	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2371-ND	6.22	5.60	4.78	100SP1T6B12M6RE
	SPDT	On-Off-On	T1	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2378-ND	5.40	4.86	4.14	100SP3T1B4M6RE
	SPDT	On-Off-On	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2381-ND	5.40	4.86	4.14	100SP3T2B4M6RE
3	SPDT	On-On	T2	B4	M7	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2364-ND	5.31	4.79	4.08	100SP1T2B4M7RE
	SPDT	On-Off-On	T2	B4	M7	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2382-ND	5.74	5.17	4.41	100SP3T2B4M7RE
	SPDT	On-Off-Mom	T2	B4	M7	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2396-ND	6.52	5.87	5.00	100SP5T2B4M7RE
100A Series — Process-Sealed Miniature Toggle Switches (Plastic Bushing)												
1	SPDT	On-On	T1	B4	M2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2432-ND	4.58	4.13	3.52	100AWSP1T1B4M2RE
	SPDT	On-On	T2	B4	VS2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2436-ND	5.16	4.65	3.96	100AWSP1T2B4VS2RE
	SPDT	On-Off-On	T1	B4	M2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2437-ND	5.01	4.51	3.84	100AWSP3T1B4M2RE
	SPDT	Mom-Off-Mom	T1	B4	M2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2439-ND	5.61	5.05	4.31	100AWSP4T1B4M2RE
	DPDT	On-On	T1	B4	M2	R	.504 x .453 x .453 (12.8 x 6.91 x 11.51)	EG2443-ND	5.30	4.78	4.07	100AWDP1T1B4M2RE
2	SPDT	On-On	T1	B4	M6	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2433-ND	6.12	5.51	4.70	100AWSP1T1B4M6RE
	SPDT	On-On	T2	B4	M6	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2434-ND	6.12	5.51	4.70	100AWSP1T2B4M6RE
3	SPDT	On-On	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2435-ND	6.52	5.87	5.00	100AWSP1T2B4M7RE
	SPDT	Mom-Off-Mom	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2441-ND	7.55	6.80	5.79	100AWSP4T2B4M7RE
	SPDT	On-Off-Mom	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2442-ND	7.72	6.95	5.93	100AWSP5T2B4M7RE
	SPDT	On-Off-On	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2438-ND	6.95	6.26	5.33	100AWSP3T2B4M7RE
	DPDT	On-On	T2	B4	M7	R	.504 x .453 x .453 (12.8 x 6.91 x 11.51)	EG2444-ND	7.39	6.65	5.67	100AWDP1T2B4M7RE
	DPDT	On-Off-On	T2	B4	M7	R	.504 x .453 x .453 (12.8 x 6.91 x 11.51)	EG2445-ND	7.73	6.96	5.93	100AWDP3T2B4M7RE
Caps for 100 Series												
Vinyl Toggle Cap, White, for T1 Actuators								EG2470-ND	.33	.30	.26	T1001WHTTOGGLECAP
Vinyl Toggle Cap, Black, for T1 Actuators								EG2471-ND	.33	.30	.26	T1002BLKTOGGLECAP

Actuators

T1 — Standard

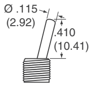

T2 — Mini

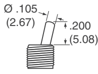

T4 — Extended Bat

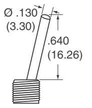

T6 — Flattened

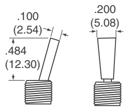

T8 — Large Bat

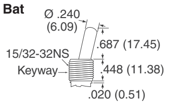

Bushings

B1

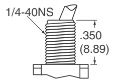

B3
B4 (Unthreaded)

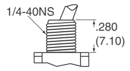

B6

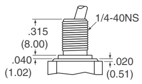

B9

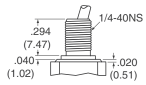

B11
B12 (Unthreaded)

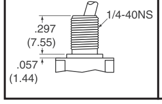

B13 — Large Threaded

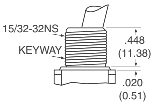

Termination Options

M1 — Eyelet Terminal

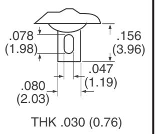

M2 — PC Mount

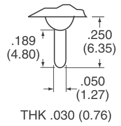

M5 — Wirewrap Terminal

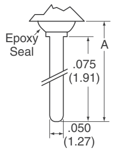

M6 — SPDT

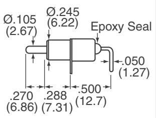

M7 — SPDT

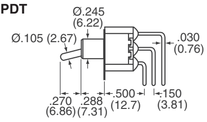

VS2 — Vertical with Bracket

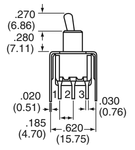

VS5 — Vertical with Bracket

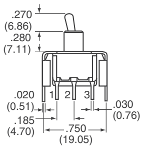

E•SWITCH™

Toggle Switches

Fig. 1 — Vertical

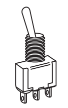

Fig. 2 — Horizontal Right Angle

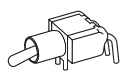

Fig. 3 — Vertical Right Angle

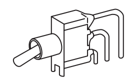

Note: All switches come complete with mounting hardware.

Contact Material:

Q **(Silver): Fixed terminal and moving contact:** Silver plated over copper alloy. **Contact Rating:** 5A @ 28VAC or VDC; 2A @ 250VAC

R **(Gold): Fixed terminal and moving contact:** Copper alloy with gold plate over nickel plate. **Contact Rating:** 0.4VA maximum at 20VAC or DC maximum

Fig.	Circuit	Switching Function	Options (see diagrams) Actuator	Bushing	Termination	Contact Material	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
							200 Series — Subminiature Toggle Switches					
1	SPDT	On-On	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2446-ND	3.45	3.11	2.65	200MSP1T1B1M1QEH
	SPDT	On-On	T1	B1	M2	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2447-ND	3.45	3.11	2.65	200MSP1T1B1M2QEH
	SPDT	On-Off-On	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2450-ND	4.65	4.19	3.57	200MSP3T1B1M1QEH
	SPDT	On-Off-On	T1	B1	M2	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2451-ND	3.88	3.49	2.98	200MSP3T1B1M2QEH
	SPDT	Mom-Off-Mom	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2453-ND	4.86	4.38	3.73	200MSP4T1B1M1QEH
	SPDT	On-Off-Mom	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2454-ND	4.86	4.38	3.73	200MSP5T1B1M1QEH
	DPDT	On-On	T1	B1	M1	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2455-ND	4.86	4.38	3.73	200MDP1T1B1M1QEH
	DPDT	On-On	T1	B1	M2	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2456-ND	4.06	3.65	3.11	200MDP1T1B1M2QEH
	DPDT	On-Off-On	T1	B1	M1	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2458-ND	5.73	5.16	4.40	200MDP3T1B1M1QEH
2	SPDT	On-Off-On	T2	B2	M6	R	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2452-ND	6.22	5.60	4.78	200MSP3T2B2M6RE
	SPDT	On-On	T2	B2	M6	R	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2448-ND	5.02	4.52	3.85	200MSP1T2B2M6RE
	DPDT	On-On	T2	B2	M6	R	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2457-ND	6.70	6.04	5.14	200MDP1T2B2M6RE
3	SPDT	On-On	T2	B2	M7	R	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2449-ND	5.54	4.99	4.25	200MSP1T2B2M7RE
							200A Series — Process-Sealed Subminiature Toggle Switches					
1	SPDT	On-On	T1	A1	M2	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2459-ND	4.49	4.04	3.45	200AWMSP1T1A1M2RE
	SPDT	On-Mom	T1	A1	M2	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2461-ND	5.44	4.90	4.17	200AWMSP2T1A1M2RE
	SPDT	On-Off-On	T1	A1	M2	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2463-ND	4.50	4.05	3.45	200AWMSP3T1A1M2RE
	DPDT	On-On	T1	A1	M2	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2465-ND	6.99	6.30	5.36	200AWMDP1T1A1M2RE
	DPDT	On-Off-On	T1	A1	M2	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2467-ND	8.12	7.31	6.23	200AWMDP3T1A1M2RE
2	SPDT	On-On	T2	A1	M6	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2460-ND	5.87	5.29	4.51	200AWMSP1T2A1M6RE
	SPDT	On-Off-On	T2	A1	M6	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2464-ND	6.05	5.45	4.64	200AWMSP3T2A1M6RE
	DPDT	On-On	T2	A1	M6	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2466-ND	8.65	7.79	6.64	200AWMDP1T2A1M6RE
	DPDT	On-Off-On	T2	A1	M6	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2468-ND	9.76	8.79	7.49	200AWMDP3T2A1M6RE

Actuators

T1

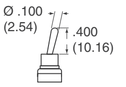

T2

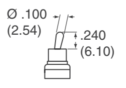

Bushings

A1

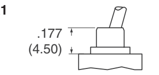

B1
B2 (Unthreaded)

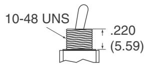

Termination Options

M1 — Eyelet Terminal

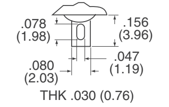

M2

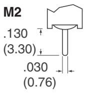

M6

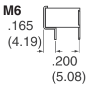

M7

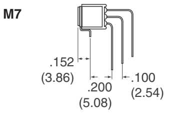

NKK® SWITCHES

Process Sealed Miniature Toggle Switches

M2T Series: Interior bushing is sealed with O-ring which surrounds the actuator. Bushing and top of the housing are one molded piece, achieving the exterior seal. Ultrasonic welding is used to seal the bushing unit to the base. Terminals are epoxy sealed for safeguarding the switch at the base. **Features: • Electrical Capacity:** Logic Level (code G): 0.4VA maximum @ 28V AC/DC maximum. **• Dielectric Strength:** 1,000VAC minimum between contacts; 1,500VAC minimum between contacts and case. **• Mechanical Life:** 100,000 operations minimum **• Electrical Life:** 50,000 operations minimum for gold **• Operating Temperature Range:** -30°C ~ 85°C

B Series: Sealed body construction permits switches to be subjected to time- and money-saving automated soldering techniques. Can be safely cleaned of flux without fear of compromising operating characteristics. **Features: • Electrical Capacity:** Logic Level: 0.4VA maximum @ 28V AC/DC maximum **• Dielectric Strength:** 500VAC minimum **• Mechanical Life:** 100,000 operations minimum for On-On and On-Off-On **• Electrical Life:** 50,000 operations minimum **• Operating Temperature Range:** -30°C ~ 85°C

G3T Series: Ultra-miniature size allows high density mounting, and extremely light weight of 0.6 gram makes these switches ideal for handheld equipment. Combination of design features achieves total seal and allows automated processing techniques, including flux cleaning procedures: one-piece bushing and housing, rubber seals surrounding actuator and base, epoxy at joint of case and base, and molded-in, epoxy sealed terminals. **Features: • Electrical Capacity:** Logic Level: 0.4VA maximum @ 28V AC/DC maximum **• Dielectric Strength:** 500VAC minimum **• Mechanical Life:** 50,000 operations minimum **• Electrical Life:** 50,000 operations minimum **• Operating Temperature Range:** -30°C ~ 85°C

Fig. 1

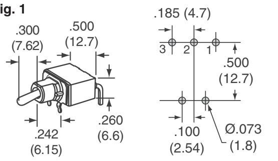

Fig. 2

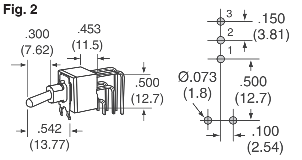

Fig. 3

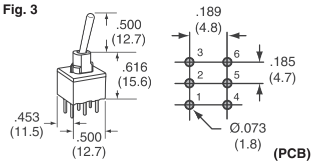

Fig. 4

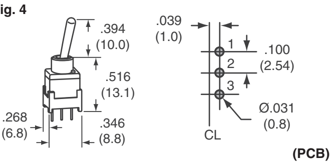

Fig. 5

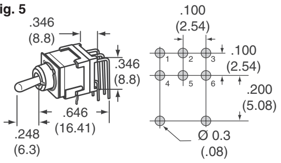

Fig. 6

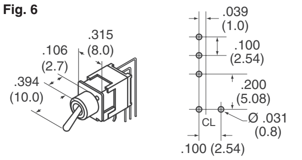

Fig. 7

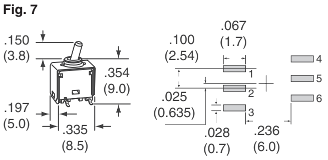

Fig. 8

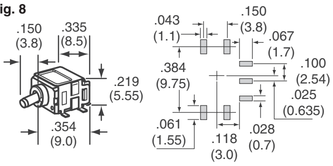

Fig.	Circuit	Switching Function	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
			Washable Mini Toggle Switches				
1	SPDT	On-On	360-1877-ND	5.24	3.40	3.11	M2T12S4A5G30-RO
	SPDT	Mom-Off-Mom	360-1882-ND	6.08	4.05	3.63	M2T18S4A5G30-RO
	SPDT	On-On	360-1879-ND	5.24	3.40	3.11	M2T12SA5G30-RO
	SPDT	On-Off-On	360-1880-ND*	5.51	3.67	3.29	M2T13S4A5G30-RO
2	SPDT	On-On	360-1878-ND	5.30	3.53	3.17	M2T12S4A5G40-RO
	SPDT	On-Off-On	360-1881-ND	5.77	3.85	3.45	M2T13S4A5G40-RO
	SPDT	Mom-Off-Mom	360-1883-ND	6.34	4.23	3.79	M2T18S4A5G40-RO
	DPDT	On-On	360-1884-ND	7.99	5.67	5.17	M2T22S4A5G40-RO
3	SPDT	On-On	360-1180-ND	4.82	3.01	2.76	M2T12SA5G03
	SPDT	On-Off-On	360-1181-ND	5.13	3.33	3.04	M2T13SA5G03
	SPDT	Mom-Off-Mom	360-1182-ND	5.51	3.67	3.29	M2T18SA5G03
	DPDT	On-On	360-1183-ND	6.73	4.66	4.12	M2T22SA5G03
			Washable Sub-Mini Antistatic Toggle Switches				
4	SPDT	On-On	360-1012-ND	4.06	2.52	2.29	B12AP
	SPDT	On-Off-On	360-1013-ND	4.23	2.63	2.38	B13AP
	SPDT	On-Mom	360-1014-ND	4.20	2.70	2.40	B15AP
	DPDT	On-On	360-1015-ND	5.01	3.19	2.92	B22AP
	DPDT	On-Off-On	360-1016-ND	5.29	3.43	3.14	B23AP
	SPDT	On-On	360-2108-ND◊	4.26	2.74	2.44	B12JB-RO

Fig.	Circuit	Switching Function	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
4	SPDT	On-On	360-1751-ND	4.59	2.87	2.63	B12JH-RO
5	SPDT	On-Off-On	360-1753-ND	4.76	2.98	2.72	B13JH-RO
	SPDT	On-Mom	360-1754-ND	4.87	3.05	2.79	B15JH-RO
	DPDT	On-On	360-1755-ND	5.67	3.78	3.38	B22JH-RO
	DPDT	On-Off-On	360-1756-ND	6.03	4.02	3.60	B23JH-RO
6	SPDT	On-On	360-1752-ND	4.59	2.87	2.63	B12JV-RO
			Washable Ultra Mini SMT Toggle Switches				
7	SPDT	On-On	360-1774-ND	5.13	3.33	3.04	G3T12AP-RO
	SPDT	On-Off-On	360-1778-ND	5.30	3.53	3.17	G3T13AP-RO
	DPDT	On-On	360-1779-ND	6.35	4.40	3.89	G3T22AP-RO

Fig.	Cir-cuit	Switching Function	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	T & R Pricing 500	NKK Part No.
			Washable Ultra-Miniature SMT Toggle Switch						
8	SPDT	On-On	360-1773-1-ND	6.00	4.80	3.80	360-1773-2-ND	1400.00	G3T12AH-R-RO
	SPDT	On-Off-On	360-1775-1-ND	6.42	5.14	4.07	360-1775-2-ND	1498.00	G3T13AH-R-RO

◊ Actual Length .248" * Actual Length .500"

NKK® SWITCHES

Miniature Toggle Switches

M Series: Over 350,000 different configurations possible, with the most popular listed here. Epoxy sealed terminals, high torque bushings, anti-jamming levers. Available as PCB mount or solder lug terminal for ease of wiring. • **Dielectric strength:** 1,500VAC minimum • **Mechanical Life:** 100,000 operations minimum, 50,000 operations minimum for flat and locking lever • **Electrical Life:** 25,000 operations minimum • **Operating Temperature:** -30°C ~ 85°C • **Angle of Throw:** 25° • **Standard Hardware:** 2 hex nuts, 1 locking ring, 1 lockwasher

NEW! Digi-Key® M Series Miniature Toggle Sample Kit

1 each of switches denoted. Includes plastic storage case, bin storage guide and hardware.

§ 360-2293-ND 18 Pieces Total — ***RoHS Compliant*** **$35.00**

Fig. 1

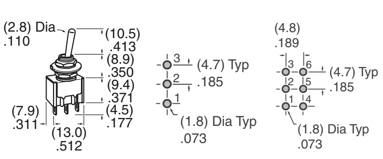

(SPDT Shown) (SPDT) (DPDT)

Fig. 2

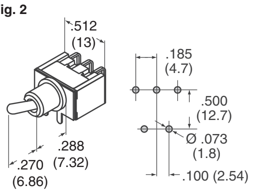

(DPDT Shown)

Fig. 3

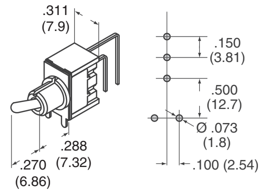

Fig. 4

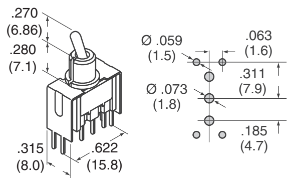

Bushings

A1

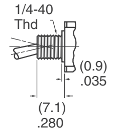

(Short Bushing)

A2

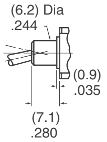

(Unthreaded)

B1

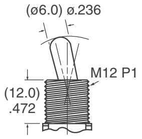

(Large)

D3

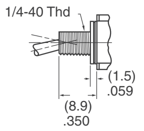

(Splashproof)

L1

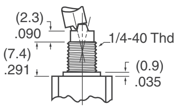

(Locking)

S1

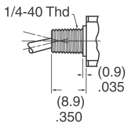

(Standard)

Actuators

S

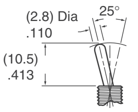

(Standard)

B

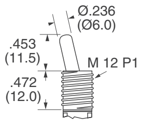

(Large)

E

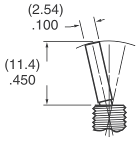

(Flat)

S2

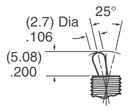

(Mini)

B2

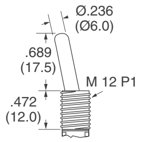

(Long Large)

L

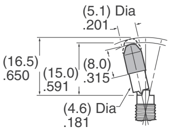

(Locking)

Circuit	Switching Function	Options		Digi-Key Part No.	Price Each			NKK Part No.
		Actuator	Bushing		1	25	100	
Fig. 1 – Solder Lug 6A Silver Contacts								
SPDT	On-On	B	B1	360-1782-ND§◆	5.93	3.95	3.54	M2012BB1W01-RO
SPDT	On-Off-On	B	B1	360-1804-ND◆	6.30	4.36	3.86	M2013BB1W01-RO
SPDT	On-Off-Mom	B	B1	360-2067-ND◆	6.90	4.78	4.23	M2019BB1W01-RO
DPDT	On-On	B	B1	360-1830-ND◆	7.45	5.07	4.56	M2022BB1W01-RO
DPDT	On-Off-On	B	B1	360-1846-ND◆	7.97	5.65	5.15	M2023BB1W01-RO
3PDT	On-On	B	B1	360-1858-ND◆	10.07	7.14	6.79	M2032BB1W01-RO
SPDT	On-On	B2	B1	360-1781-ND◆	6.14	4.09	3.66	M2012B2B1W01-RO
SPDT	On-Off-On	B2	B1	360-1803-ND◆	6.50	4.50	3.98	M2013B2B1W01-RO
SPDT	Mom-Off-Mom	B2	B1	360-2061-ND◆	7.10	4.83	4.35	M2018B2B1W01-RO
DPDT	On-On	B2	B1	360-1829-ND◆	7.65	5.21	4.75	M2022B2B1W01-RO
DPDT	On-Off-On	B2	B1	360-1845-ND◆	8.16	5.78	5.27	M2023B2B1W01-RO
SPDT	On-On	E	S1	360-1784-ND◆	4.95	3.15	2.88	M2012ES1W01-RO
SPDT	On-Off-On	E	S1	360-1806-ND◆	5.30	3.53	3.17	M2013ES1W01-RO
SPDT	On-Mom	E	S1	360-2056-ND◆	5.82	3.88	3.48	M2015ES1W01-RO
SPDT	Mom-Off-Mom	E	S1	360-2062-ND◆	5.93	3.95	3.54	M2018ES1W01-RO
SPDT	On-Off-Mom	E	S1	360-2068-ND◆	5.93	3.95	3.54	M2019ES1W01-RO
SP3T	On-On-On	E	S1	360-2072-ND◆†	8.16	5.78	5.27	M2024ES1W01-RO
DPDT	On-On	E	S1	360-1832-ND◆	6.25	4.33	3.83	M2022ES1W01-RO
DPDT	On-Off-On	E	S1	360-1848-ND◆	7.10	4.83	4.35	M2023ES1W01-RO
DPDT	On-Mom	E	S1	360-2075-ND◆	8.00	5.44	4.96	M2025ES1W01-RO
DPDT	On-Off-Mom	E	S1	360-2079-ND§◆	7.97	5.65	5.15	M2029ES1W01-RO
3PDT	On-On	E	S1	360-1860-ND◆	9.36	6.44	6.05	M2032ES1W01-RO
3PDT	On-Off-On	E	S1	360-1867-ND◆	11.04	7.83	7.44	M2033ES1W01-RO
4PDT	On-On	E	S1	360-1870-ND◆	11.75	8.51	7.57	M2042ES1W01-RO
SPDT	On-On	L	L1	360-1787-ND§	6.32	4.21	3.77	M2012LL1W01-RO
SPDT	On-Off-On	L	L1	360-1809-ND	6.68	4.62	4.09	M2013LL1W01-RO
SPDT	On-Mom	L	L1	360-2057-ND	7.18	4.88	4.40	M2015LL1W01-RO
DPDT	On-On	L	L1	360-1834-ND§◆	7.83	5.33	4.86	M2022LL1W01-RO
DPDT	On-Off-On	L	L1	360-1849-ND§◆	8.33	5.90	5.38	M2023LL1W01-RO
3PDT	On-On	L	L1	360-1861-ND◆	10.42	7.39	7.03	M2032LL1W01-RO
3PDT	On-Off-On	L	L1	360-1868-ND◆	12.22	8.86	7.88	M2033LL1W01-RO
4PDT	On-On	L	L1	360-1871-ND◆	13.16	9.54	8.49	M2042LL1W01-RO
SPDT	On-On	S	S1	360-1801-ND§◆	4.06	2.52	2.29	M2012SS1W01-RO
SPDT	On-Off-On	S	S1	360-1816-ND§◆	4.59	2.87	2.63	M2013SS1W01-RO
SPDT	On-Mom	S	S1	360-2059-ND◆	5.06	3.22	2.95	M2015SS1W01-RO
SPDT	Mom-Off-Mom	S	S1	360-2065-ND◆	5.17	3.29	3.01	M2018SS1W01-RO
SPDT	On-Off-Mom	S	S1	360-2070-ND◆	5.17	3.29	3.01	M2019SS1W01-RO
SP3T	On-On-On	S	S1	360-2073-ND◆†	7.50	5.10	4.65	M2024SS1W01-RO
DPDT	On-On	S	S1	360-1843-ND◆	5.46	3.64	3.26	M2022SS1W01-RO
DPDT	On-Off-On	S	S1	360-1852-ND◆	6.34	4.23	3.79	M2023SS1W01-RO
DPDT	On-Mom	S	S1	360-2076-ND◆	7.00	4.76	4.29	M2025SS1W01-RO
DPDT	Mom-Off-Mom	S	S1	360-2078-ND◆	7.30	4.97	4.47	M2028SS1W01-RO
DPDT	On-Off -Mom	S	S1	360-2080-ND◆	7.30	4.97	4.47	M2029SS1W01-RO
DP3T	On-On-On	S	S1	360-2082-ND◆††	15.40	11.20	10.15	M2044SS1W01-RO
3PDT	On-On	S	S1	360-1865-ND◆	8.40	5.95	5.43	M2032SS1W01-RO
3PDT	On-Off-On	S	S1	360-1869-ND◆	10.12	7.18	6.82	M2033SS1W01-RO
3PDT	Mom-Off-Mom	S	S1	360-2081-ND◆	12.15	8.81	7.83	M2038SS1W01-RO
4PDT	On-On	S	S1	360-1874-ND◆	11.09	7.86	7.48	M2042SS1W01-RO
4PDT	On-Off-On	S	S1	360-1876-ND◆	12.96	9.39	8.36	M2043SS1W01-RO
SPDT	On-On	S	D3	360-1088-ND◆	4.95	3.15	2.88	M2012SD3W01
SPDT	On-Off-On	S	D3	360-1089-ND◆	5.30	3.53	3.17	M2013SD3W01
SPDT	On-Mom	S	D3	360-1090-ND§◆	5.82	3.88	3.48	M2015SD3W01
SPDT	Mom-Off-Mom	S	D3	360-1091-ND◆	5.93	3.95	3.54	M2018SD3W01
SPDT	On-Off-Mom	S	D3	360-1092-ND◆	5.93	3.95	3.54	M2019SD3W01
DPDT	On-On	S	D3	360-1093-ND◆	6.25	4.33	3.83	M2022SD3W01
DPDT	On-Off-On	S	D3	360-1094-ND§◆	7.10	4.83	4.35	M2023SD3W01
DPDT	Mom-Off-Mom	S	D3	360-1095-ND◆	7.97	5.65	4.98	M2028SD3W01
SPDT	On-On	S2	A1	360-1788-ND◆	4.06	2.52	2.29	M2012S2A1W01-RO
DPDT	On-On	S2	A1	360-1835-ND◆	5.46	3.64	3.26	M2022S2A1W01-RO
SPDT	On-On	S2	S1	360-1795-ND◆	4.06	2.52	2.29	M2012S2S1W01-RO
Fig. 1 – Solder Lug .4VA Gold Contacts — RoHS Compliant								
SPDT	On-On	B2	B1	360-1780-ND	6.45	4.47	3.95	M2012B2B1G01-RO
DPDT	On-On	B2	B1	360-1828-ND	8.38	5.94	5.41	M2022B2B1G01-RO
SPDT	On-On	E	S1	360-1783-ND§	5.25	3.50	3.14	M2012ES1G01-RO
SPDT	On-Off-On	E	S1	360-1805-ND	5.88	3.91	3.51	M2013ES1G01-RO
SP3T	On-On-On	E	S1	360-1855-ND†	9.19	6.32	5.94	M2024ES1G01-RO
DPDT	On-On	E	S1	360-1831-ND	7.33	4.99	4.49	M2022ES1G01-RO
DPDT	On-Off-On	E	S1	360-1847-ND	7.85	5.56	5.07	M2023ES1G01-RO
3PDT	On-On	E	S1	360-1859-ND	10.47	7.42	7.06	M2032ES1G01-RO
SPDT	On-On	L	L1	360-1786-ND	6.63	4.59	4.06	M2012LL1G01-RO
SPDT	On-Off-On	L	L1	360-1808-ND	7.23	4.92	4.43	M2013LL1G01-RO
SPDT	On-Mom	L	L1	360-1818-ND	7.73	5.26	4.79	M2015LL1G01-RO
DPDT	On-On	L	L1	360-1833-ND	8.54	6.06	5.52	M2022LL1G01-RO
SPDT	On-On	S	D3	360-1140-ND§	5.25	3.50	3.14	M2012SD3G01
SPDT	On-Off-On	S	D3	360-1141-ND	5.88	3.91	3.51	M2013SD3G01
SPDT	Mom-Off-Mom	S	D3	360-1143-ND	6.25	4.33	3.83	M2018SD3G01
DPDT	On-On	S	D3	360-1144-ND	7.33	4.99	4.49	M2022SD3G01
SPDT	On-On	S	S1	360-1799-ND	4.54	2.84	2.60	M2012SS1G01-RO
SPDT	On-Off-On	S	S1	360-1814-ND	5.12	3.26	2.98	M2013SS1G01-RO
SPDT	On-Mom	S	S1	360-1819-ND	5.36	3.57	3.20	M2015SS1G01-RO
SPDT	Mom-Off-Mom	S	S1	360-1823-ND	5.46	3.64	3.26	M2018SS1G01-RO
SPDT	On-Off-Mom	S	S1	360-1826-ND	5.46	3.64	3.26	M2019SS1G01-RO
DPDT	On-On	S	S1	360-1841-ND	6.33	4.38	3.88	M2022SS1G01-RO
SP3T	On-On-On	S	S1	360-1856-ND§†	8.23	5.84	5.32	M2024SS1G01-RO
3PDT	On-On	S	S1	360-1863-ND	9.96	6.77	6.44	M2032SS1G01-RO
4PDT	On-On	S	S1	360-1872-ND	12.78	9.26	8.24	M2042SS1G01-RO
Fig. 1 – PC Terminal 6A Silver Contacts								
SPDT	On-On	E	S1	360-1785-ND§◆	5.09	3.24	2.96	M2012ES1W03-RO
SPDT	On-Off-On	E	S1	360-1151-ND	5.43	3.62	3.24	M2013ES1W03
SPDT	On-Off-On	E	S1	360-1807-ND◆	5.43	3.62	3.24	M2013ES1W03-RO
SPDT	Mom-Off-Mom	E	S1	360-2063-ND◆	6.06	4.04	3.62	M2018ES1W03-RO
SPDT	On-On	S	S1	360-1802-ND◆	4.21	2.61	2.37	M2012SS1W03-RO
SPDT	On-Off-On	S	S1	360-1817-ND◆	4.73	2.96	2.71	M2013SS1W03-RO
SPDT	On-Mom	S	S1	360-2060-ND◆	5.20	3.31	3.03	M2015SS1W03-RO
SPDT	On-Off-Mom	S	S1	360-2071-ND◆	5.21	3.38	3.09	M2019SS1W03-RO
SPDT	Mom-Off-Mom	S	S1	360-1081-ND	5.79	4.64	3.67	M2018SS1W03
SPDT	Mom-Off-Mom	S	S1	360-2066-ND◆	5.21	3.38	3.09	M2018SS1W03-RO
SP3T	On-Off-On	S	S1	360-2074-ND◆†	7.75	5.27	4.81	M2024SS1W03-RO
DPDT	On-On	S	S1	360-1844-ND◆	5.72	3.81	3.41	M2022SS1W03-RO
DPDT	On-Off-On	S	S1	360-1853-ND§◆	6.35	4.40	3.89	M2023SS1W03-RO

◆ ***RoHS Compliant*** † SP3T uses a Dp Body †† DP3T uses a 4p Body *(Continued)*

NKK® SWITCHES

Miniature Toggle Switches *(Cont.)*

Circuit	Switching Function	Options Act-uator	Options Bush-ing	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	NKK Part No
3PDT	On-On	S	S1	360-1866-ND§◆	8.74	6.01	5.65	M2032SS1W03-RO
4PDT	On-On	S	S1	360-1875-ND◆	11.27	8.17	7.27	M2042SS1W03-RO
SPDT	On-On	S2	A1	360-1789-ND◆	4.21	2.61	2.37	M2012S2A1W03-RO
Fig. 1 – PC Terminal .4VA Gold Contacts — RoHS Compliant								
SPDT	On-On	S	S1	360-1800-ND	4.65	2.91	2.66	M2012SS1G03-RO
SPDT	On-Off-On	S	S1	360-1815-ND	5.13	3.33	3.04	M2013SS1G03-RO.
SPDT	On-Mom	S	S1	360-1820-ND	5.46	3.64	3.26	M2015SS1G03-RO
SPDT	Mom-Off-Mom	S	S1	360-1824-ND	5.56	3.71	3.32	M2018SS1G03-RO
SPDT	On-Off-Mom	S	S1	360-1827-ND	5.56	3.71	3.32	M2019SS1G03-RO
SP3T	On-On-On	S	S1	360-1857-ND	8.47	6.01	5.48	M2024SS1G03-RO
DPDT	On-On	S	S1	360-1842-ND	6.58	4.55	4.03	M2022SS1G03-RO
DPDT	On-Off-On	S	S1	360-1851-ND	7.43	5.05	4.55	M2023SS1G03-RO
3PDT	On-On	S	S1	360-1864-ND	9.87	7.00	6.65	M2032SS1G03-RO
4PDT	On-On	S	S1	360-1873-ND	13.23	9.59	8.53	M2042SS1G03-RO
Fig. 2 – Right Angle PC Terminal 6A Silver Contacts — RoHS Compliant								
SPDT	On-On	S2	A2	360-1794-ND	4.65	2.91	2.66	M2012S2A2W30-RO
DPDT	On-On	S2	A2	360-1838-ND	6.53	4.52	4.00	M2022S2A2W30-RO
Fig. 2 – Right Angle PC Terminal .4VA Gold Contacts — RoHS Compliant								
SPDT	On-On	S	A2	360-1796-ND	5.17	3.29	3.01	M2012SA2G30-RO
SPDT	On-On	S2	A2	360-1791-ND	5.17	3.29	3.01	M2012S2A2G30-RO
SPDT	On-Off-On	S2	A2	360-1810-ND	5.51	3.67	3.29	M2013S2A2G30-RO
SPDT	Mom-Off-Mom	S2	A2	360-1821-ND§	6.14	4.09	3.66	M2018S2A2G30-RO
DPDT	On-On	S2	A2	360-1836-ND	7.60	5.17	4.72	M2022S2A2G30-RO
3PDT	On-On	S2	A2	360-1862-ND	11.36	8.06	7.66	M2032S2A2G30-RO
Fig. 3 – Vertical Right Angle PC Terminal .4VA Gold Contacts — RoHS Compliant								
SPDT	On-On	S2	A2	360-1792-ND	5.35	3.47	3.17	M2012S2A2G40-RO
SPDT	On-Off-On	S2	A2	360-1811-ND§	5.77	3.85	3.45	M2013S2A2G40-RO
SPDT	On-Off-Mom	S2	A2	360-1825-ND	6.40	4.26	3.82	M2019S2A2G40-RO
DPDT	On-On	S2	A2	360-1837-ND	7.85	5.56	5.07	M2022S2A2G40-RO
Fig. 4 – Vertical Bracket PC Terminal 6A Silver Contacts — RoHS Compliant								
SPDT	On-On	S2	A2	360-1793-ND	4.34	2.79	2.48	M2012S2A2W13-RO
Fig. 4 – Vertical Bracket PC Terminal .4VA Gold Contacts — RoHS Compliant								
SPDT	On-On	S2	A2	360-1790-ND§	4.87	3.10	2.84	M2012S2A2G13-RO

◆ ***RoHS Compliant*** † SP3T uses a Dp Body †† DP3T uses a 4p Body

Splashproof Boots

Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	NKK Part No.
Black for 1/4-40 Thd Bushing and .413" (10.49mm) Bat Height	360-1750-ND	3.12	1.93	1.70	AT428H
Gray for M12 Bushing and .689" (17.50mm) Bat Height	360-1706-ND	3.94	2.45	2.22	AT402H
Red for M12 Bushing and .689" (17.50mm) Bat Height	360-1707-ND	3.94	2.45	2.22	AT402C
Yellow for M12 Bushing and .689" (17.50mm) Bat Height	360-1708-ND	3.94	2.45	2.22	AT402E

Power Toggle Switches

Features: • NKK offers one of the most extensive lines of power toggle switches • Standard switching currents of 15, 25 and 30 Amps • Locking lever type is ideal for preventing accidental switching, lever must be pulled out then switched • All toggles come complete with mounting hardware **Specifications:** • **Dielectric Strength:** 2000V AV minimum • **Mechanical Life:** 50,000 operations minimum • **Operating Temperature:** -10°C ~ 70°C

Dimensions in Inch (mm)

Fig. 1 — Solder Terminal

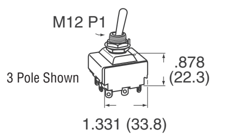

Fig. 2 — QC Terminal

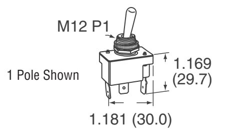

Fig. 3 — Locking Lever

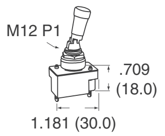

Fig. 4 — Screw Terminal

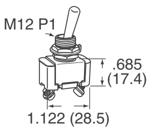

Fig. 5

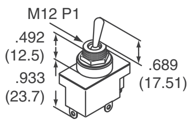

Fig. 6 — HD Screw Terminal

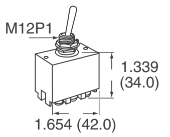

Fig. 7

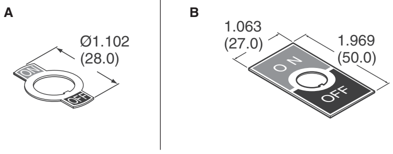

Red/Black Background with "ON" and "OFF" in White Lettering

Fig. 8

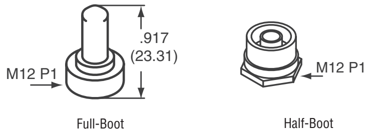

Fig.	Circuit	Function	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	NKK Part No.
Medium and High Capacity, Solder Lug								
1	SPST	On-Off	15A	360-1896-ND*	5.09	3.24	2.96	S301-RO
	SPDT	On-On	15A	360-1898-ND*	5.09	3.24	2.96	S302-RO
	SPDT	On-Off-On	15A	360-1900-ND*	5.20	3.46	3.10	S303-RO
	SPDT	On-Mom	15A	360-1902-ND‡	5.33	3.55	3.18	S305-RO
	SPDT	Mom-Off-Mom	15A	360-1904-ND‡	5.43	3.62	3.24	S308-RO
	SPDT	On-Off-Mom	15A	360-1906-ND‡	5.62	3.74	3.35	S309-RO
	DPST	On-Off	25A	360-2087-ND*	6.98	4.83	4.27	S331-RO
	DPDT	On-On	25A	360-2089-ND*	6.98	4.83	4.27	S332-RO
	DPDT	On-Off-On	25A	360-1909-ND*	7.82	5.55	5.06	S333-RO
	DPDT	On-Mom	15A	360-1911-ND*	7.90	5.60	5.10	S335-RO
	DPDT	Mom-Off-Mom	15A	360-1913-ND†	8.59	6.09	5.55	S338-RO
	DPDT	On-Off-Mom	15A	360-1915-ND†	8.59	6.09	5.55	S339-RO
	3PST	On-Off	25A	360-2083-ND‡	9.46	6.51	6.11	S31-RO
	3PDT	On-On	25A	360-2085-ND‡	9.72	6.61	6.28	S32-RO
	3PDT	On-Off-On	25A	360-1908-ND‡	10.05	7.13	6.78	S33-RO
	3PDT	On-Mom	15A	360-1918-ND*	10.05	7.13	6.78	S35-RO
	3PDT	Mom-Off-Mom	15A	360-1919-ND*	10.05	7.13	6.78	S38-RO
	4PST	On-Off	25A	360-2091-ND‡	10.72	7.60	7.23	S41-RO
	4PDT	On-On	25A	360-2093-ND‡	10.72	7.60	7.23	S42-RO
	4PDT	On-Off-On	25A	360-1923-ND‡	11.30	8.19	7.28	S43-RO
	4PDT	On-Mom	15A	360-1925-ND†	11.30	8.19	7.28	S45-RO
Medium and High Capacity, .250" (6.35mm) Quick Connect								
2	SPST	On-Off	15A	360-1887-ND	4.48	2.80	2.56	S1F-RO
	SPDT	On-On	15A	360-1895-ND	5.14	3.28	3.00	S2F-RO
	SPDT	On-Off-On	15A	360-1922-ND	5.24	3.40	3.11	S3F-RO
	DPST	On-Off	15A	360-1889-ND	6.08	4.05	3.63	S21F-RO
	DPDT	On-On	20A	360-1929-ND	7.15	4.87	4.38	S6F-RO
	DPDT	On-Off-On	20A	360-1932-ND	7.20	4.90	4.41	S7F-RO
	3PST	On-Off	25A	360-2084-ND*	9.78	6.93	6.59	S31F-RO
	3PDT	On-On	25A	360-2086-ND*	10.05	7.13	6.78	S32F-RO
	3PDT	On-Off-On	25A	360-1917-ND*	10.76	7.63	7.26	S33F-RO
	4PST	On-Off	25A	360-2092-ND*	11.34	8.04	7.65	S41F-RO
	4PDT	On-On	25A	360-2094-ND*	11.39	8.25	7.34	S42F-RO
	4PDT	On-Off-On	25A	360-1924-ND*	12.20	8.84	7.86	S43F-RO
Medium Capacity, Solder Lug, Locking Lever with Panel Seal								
3	SPST	On-Off	15A	360-1885-ND	11.54	8.37	7.44	S1AL-RO
	SPDT	On-On	15A	360-1893-ND	12.78	9.26	8.24	S2AL-RO
	SPDT	On-Off-On	15A	360-1920-ND	13.05	9.46	8.41	S3AL-RO
	DPDT	On-On	20A	360-1927-ND	14.96	10.88	9.86	S6AL-RO
	DPDT	On-Off-On	20A	360-1930-ND	15.07	10.96	9.94	S7AL-RO
Medium Capacity, Screw Lug								
4	SPST	On-Off	15A	360-1897-ND*	5.28	3.52	3.15	S301T-RO
	SPDT	On-On	15A	360-1899-ND*	5.43	3.62	3.24	S302T-RO
	SPDT	On-Off-On	15A	360-1901-ND*	5.75	3.83	3.43	S303T-RO
	SPDT	On-Mom	15A	360-1903-ND‡	5.62	3.74	3.35	S305T-RO
	SPDT	Mom-Off-Mom	15A	360-1905-ND‡	6.21	4.14	3.71	S308T-RO
	SPDT	On-Off-Mom	15A	360-1907-ND‡	6.21	4.14	3.71	S309T-RO
	DPST	On-Off	15A	360-2088-ND*	7.78	5.29	4.83	S331T-RO
	DPDT	On-On	15A	360-2090-ND*	7.82	5.55	5.06	S332T-RO
	DPDT	On-Off-On	15A	360-1910-ND*	8.81	6.06	5.69	S333T-RO
	DPDT	On-Mom	15A	360-1912-ND*	9.02	6.21	5.83	S335T-RO
	DPDT	Mom-Off-Mom	15A	360-1914-ND*	9.46	6.51	6.11	S338T-RO
	DPDT	On-Off-Mom	15A	360-1916-ND*	9.72	6.61	6.28	S339T-RO
Medium Capacity, Solder Lug with Panel Seal								
5	SPDT	On-Off	15A	360-1886-ND	9.72	6.61	6.28	S1AW-RO
	SPDT	On-On	15A	360-1894-ND	10.12	7.18	6.82	S2AW-RO
	SPDT	On-Off-On	15A	360-1921-ND	10.65	7.55	7.18	S3AW-RO
	SPDT	On-Mom	15A	360-1926-ND	9.66	6.85	6.51	S5AW-RO
	SPDT	Mom-Off-Mom	15A	360-1933-ND	10.19	7.23	6.87	S8AW-RO
	SPDT	On-Off-Mom	15A	360-1934-ND	10.19	7.23	6.87	S9AW-RO
	DPDT	On-On	20A	360-1928-ND	12.89	9.34	8.31	S6AW-RO
	DPDT	On-Off-On	20A	360-1931-ND	12.94	9.38	8.34	S7AW-RO
	DPST	On-Off	15A	360-1888-ND	11.43	8.29	7.37	S21AW-RO
	DPDT	On-Mom	15A	360-1890-ND	12.94	9.38	8.34	S25AW-RO
	DPDT	Mom-Off-Mom	15A	360-1891-ND	13.46	9.75	8.68	S28AW-RO
	DPDT	On-Off-Mom	15A	360-1892-ND	13.46	9.75	8.68	S29AW-RO
High Capacity, Screw Lug								
6	DPST	On-Off	30A	360-2096-ND*	20.90	16.20	14.63	S821-RO
	DPDT	On-On	30A	360-2097-ND*	23.88	18.51	16.72	S822-RO
	DPDT	On-Off-On	30A	360-2098-ND*	21.50	16.67	15.05	S823-RO
	3PST	On-Off	30A	360-2099-ND*	29.99	23.07	21.54	S831-RO
	3PDT	On-On	30A	360-2100-ND*	36.17	27.83	25.97	S832-RO
	3PDT	On-Off-On	30A	360-2101-ND*	36.23	27.87	26.02	S833-RO
	DPDT	On-On	50A	360-2095-ND	46.53	36.47	33.96	S732-RO
Power Toggle Accessories								
7A	On-Off-Plate, 12mm, Nickel, Brass			360-1001-ND	1.01	.53	.46	AT201
	On-Off-Plate, 12mm, Red/Black			360-1003-ND	2.34	1.41	1.23	AT214
7B	On-Off-Plate, 12mm, Red/Black			360-1002-ND	2.34	1.41	1.23	AT202
8	Splashproof Half-Boot, Black			360-1605-ND	3.12	1.93	1.70	AT401A
	Splashproof Full-Boot, Black			360-1606-ND	3.94	2.45	2.22	AT402A

* UL/CSA † UL ‡ CSA

NKK® SWITCHES

Environmentally Sealed Switches

For use in outdoor or harsh applications.

Features:

• Sealing at front and back panel meets IP67 of IEC60529 and IP60 Standards • Single unit construction of bushing and case gives added protection from environmental elements • Anti-jamming design protects contacts from damage due to excessive downward force on the toggle • Specially designed contact mechanism for breaking light contact welds • Minimal contact bounce achieved with designed interlocked switching mechanism

Specifications:

• **Electrical Capacity:** Toggle: 10A @ 125VAC; Rocker: 15A @ 125VAC • **Dielectric Strength:** Toggle: 1,500VAC minimum; Rocker: 3,750VAC minimum between contacts and case • **Mechanical Life:** 30,000 operations minimum • **Electrical Life:** 15,000 operations minimum • **Operating Temperature:** Toggle: -30°C ~ 70°C; Rocker: -25°C ~ 85°C • **Angle of Throw:** 24° • **Panel Thickness:** .157" (4.0mm) • **Standard Hardware:** Toggle: 1 hex nut, 1 lockwasher, 1 O-ring • **Color:** Black

Fig. 1

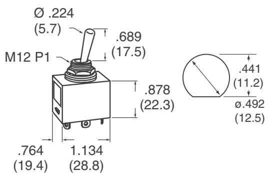

Fig. 2 Dim. in Inch (mm)

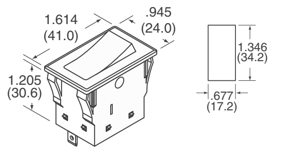

Fig.	Switching Circuit	Termin-ation	Function	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
				Sealed Toggle — 10A				
1	SPST	Solder Lug	On-Off	360-1951-ND	11.25	8.15	7.25	WT11S-RO
	SPST	Screw Lug	On-Off	360-1952-ND	12.04	8.73	7.76	WT11T-RO
	SPDT	Solder Lug	On-On	360-1953-ND	11.93	8.64	7.69	WT12S-RO
	SPDT	Screw Lug	On-On	360-1954-ND	12.71	9.21	8.20	WT12T-RO
	SPDT	Solder Lug	On-Off-On	360-1955-ND	12.56	9.10	8.10	WT13S-RO
	SPDT	Screw Lug	On-Off-On	360-1956-ND	13.34	9.67	8.60	WT13T-RO
	DPST	Solder Lug	On-Off	360-1957-ND	16.13	11.73	10.63	WT21S-RO
	DPST	Screw Lug	On-Off	360-1958-ND	16.86	12.45	11.45	WT21T-RO
	DPDT	Solder Lug	On-On	360-1959-ND	16.79	12.21	10.88	WT22S-RO
	DPDT	Screw Lug	On-On	360-1960-ND	17.49	12.92	11.88	WT22T-RO
	DPDT	Solder Lug	On-Off-On	360-1961-ND	17.43	12.87	11.83	WT23S-RO
	DPDT	Screw Lug	On-Off-On	360-1962-ND	18.90	13.95	12.83	WT23T-RO
				Sealed Rocker — 15A				
2	SPST	.250" QC	On-Off	360-2277-ND	11.45	8.30	7.39	WR11AF
	SPST	Solder Lug	On-Off	360-1507-ND	11.45	8.30	7.39	WR11AS
	SPST	Solder Lug	On-Off	360-1510-NDΔ	11.45	8.30	7.39	WR11BS
	SPDT	.250" QC	On-On	360-2278-ND	12.06	8.74	7.78	WR12AF
	SPDT	Solder Lug	On-On	360-1513-ND	12.06	8.74	7.78	WR12AS
	SPDT	Solder Lug	On-On	360-1516-NDΔ	12.06	8.74	7.78	WR12BS
	SPDT	.250" QC	On-Off-On	360-2279-ND	12.69	9.20	8.18	WR13AF
	SPDT	Solder Lug	On-Off-On	360-1519-ND	12.69	9.20	8.18	WR13AS
	SPDT	Solder Lug	On-Off-On	360-1522-NDΔ	12.69	9.20	8.18	WR13BS
	SPDT	.250" QC	On-Mom	360-2280-ND	13.62	9.91	8.98	WR15AF
	SPDT	.250" QC	Mom-Off-Mom	360-2281-ND	15.42	11.22	10.17	WR18AF
	SPDT	.250" QC	On-Off-Mom	360-2282-ND	15.42	11.22	10.17	WR19AF

Δ Ivory

Fully Illuminated Toggle and Paddle Switches

TL Series: Interior O-ring protects contacts from oil, dust, water, and other contaminants Specifications: • Power Level: 6A @ 125VAC • Electrical Life: 25,000 operations minimum • Sealing Ring: Nitrile butadiene rubber • Operating Temperature: -10°C ~ 55°C • IP65 Panel seal when used with optional AT401P O-ring

G Series: Totally sealed body construction prevents contact contamination and allows time and money saving automated soldering and washing Specifications: • Logic Level: 0.4VA maximum @ 28V AC/DC maximum • Electrical Life: 100,000 operations minimum • Sealing Rings: Nitrile butadiene rubber • Non-Illuminated Operating Temperature: -25°C ~ 85°C • Illuminated Operating Temperature: -25°C ~ 55°C

GW Series: World's smallest fully illuminated paddles for highly visible status indication. Specially designed switching mechanism provides crisp actuation feedback to positively indicate circuit transfer. Specifications: • Logic Level: 0.4VA maximum @ 28V AC/DC maximum • Electrical Life: 50,000 operations minimum • Sealing Rings: Nitrile butadiene rubber • Operating Temperature: -25°C ~ 55°C

Fig.	Switch Circuit	Actuator Function	Illumination Color	Color	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
				Fully Illuminated Toggle Switches					
1	DPDT	On-On	Red	Bright Red	360-1939-ND◆	12.13	8.79	7.82	TL22DCAW015C-RO
	DPDT	On-On	Amber	Bright Amber	360-1940-ND◆	12.13	8.79	7.82	TL22DDAW015D-RO
	DPDT	On-On	Green	Bright Green	360-1941-ND◆	12.13	8.79	7.82	TL22DFAW015F-RO
	DPDT	On-On	Clear	Super Bright White	360-1713-ND	14.52	10.56	9.57	TL22DNAW016B
	DPDT	On-On	Clear	Super Bright White	360-1942-ND◆	14.52	10.56	9.57	TL22DNAW016B-RO
	DPDT	On-On	Clear	Super Bright Blue	360-1944-ND◆	14.52	10.56	9.57	TL22DNAW016F-RO
	DPDT	On-On	Clear	Super Bright Green	360-1943-ND◆	14.52	10.56	9.57	TL22DNAW016F-RO
—	Panel Seal O-Ring for TL Toggles				360-1719-ND◆	.92	.48	.40	AT401P
				Ultra-Miniature Fully Illuminated Toggle Switches Process Sealed					
2	SPDT	On-On	Clear	Red	360-1760-ND◆	7.25	4.93	4.44	G12JHC-RO
	SPDT	On-On	Clear	Amber	360-1688-ND	7.25	4.93	4.44	G12JHD
	SPDT	On-On	Clear	Amber	360-1762-ND◆	7.25	4.93	4.44	G12JHD-RO
	SPDT	On-On	Clear	Green	360-1691-ND	7.25	4.93	4.44	G12JHF
	SPDT	On-On	Clear	Green	360-1763-ND◆	7.25	4.93	4.44	G12JHF-RO
	SPDT	On-On	Clear	Red/Green	360-1761-ND◆	8.16	5.78	5.27	G12JHCF-RO
	SPDT	On-Off-On	Clear	Red/Green	360-1771-ND◆	8.42	5.97	5.45	G13JHCF-RO
3	SPDT	On-On	Clear	Red	360-1764-ND◆	7.25	4.93	4.44	G12JVC-RO
	SPDT	On-On	Clear	Amber	360-1690-ND	7.25	4.93	4.44	G12JVD
	SPDT	On-On	Clear	Amber	360-1766-ND◆	7.25	4.93	4.44	G12JVD-RO
	SPDT	On-On	Clear	Green	360-1767-ND◆	7.25	4.93	4.44	G12JVF-RO
	SPDT	On-On	Clear	Red/Green	360-1765-ND◆	8.16	5.78	5.27	G12JVCF-RO
	SPDT	On-Off-On	Clear	Red/Green	360-1772-ND◆	8.42	5.97	5.45	G13JVCF-RO
4	SPDT	On-On	Clear	Red	360-1686-ND◆	6.48	4.49	3.97	G12JPC
	SPDT	On-On	Clear	Amber	360-1689-ND◆	6.48	4.49	3.97	G12JPD
	SPDT	On-On	Clear	Green	360-1692-ND◆	6.48	4.49	3.97	G12JPF
	SPDT	On-On	Clear	Red/Green	360-1695-ND◆	7.70	5.24	4.78	G12JPCF
	SPDT	On-Off-On	Clear	Red/Green	360-1698-ND◆	7.98	5.43	4.95	G13JPCF
				Ultra-Miniature Non-Illuminated Toggle Switches Process Sealed — RoHS Compliant					
2	SPDT	On-On	Gray	—	360-1757-ND	4.81	3.07	2.80	G12AH-RO
	SPDT	On-Off-On	Gray	—	360-1768-ND	5.03	3.21	2.93	G13AH-RO
3	SPDT	On-Off-On	Gray	—	360-1759-ND	4.81	3.07	2.80	G12AV-RO
	SPDT	On-Off-On	Gray	—	360-1770-ND	5.03	3.21	2.93	G13AV-RO
4	SPDT	On-On	Gray	—	360-1758-ND	4.26	2.74	2.44	G12AP-RO
	SPDT	On-Off-On	Gray	—	360-1769-ND	4.48	2.80	2.56	G13AP-RO
				Ultra Thin Fully Illuminated Paddles — RoHS Compliant					
5	SPDT	On-On	Clear	Red	360-2117-ND	6.45	4.30	3.85	GW12LJVC-RO
	SPDT	On-On	Clear	Amber	360-2118-ND	6.45	4.30	3.85	GW12LJVD-RO
	SPDT	On-On	Clear	Green	360-2119-ND	6.45	4.30	3.85	GW12LJVF-RO

◆ ***RoHS Compliant***

Fig. 1

Hardware Included

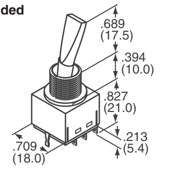

Fig. 2

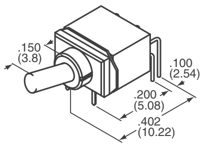

Fig. 3

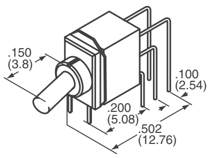

Fig. 4

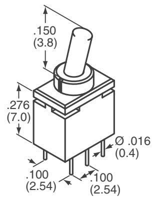

Fig. 5

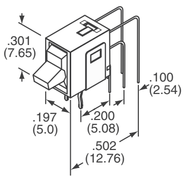

Professional/Industrial Toggle Switches

			Switch		Digi-Key		Price Each		APEM
Fig.	Circuit	Function	Current	Terminals	Part No.	1	25	100	Part No.
1	SPDT	On-On	4A	Solder Lug	679-1199-ND	15.30	13.95	12.60	11136A
		Mom-Off-Mom	4A	Solder Lug	679-1200-ND	19.11	17.43	15.74	11137A
		On- Off-Mom	4A	Solder Lug	679-1201-ND	18.16	16.56	14.96	11138A
		On-Off-On	4A	Solder Lug	679-1202-ND	18.16	16.56	14.96	11139A
	DPDT	On-On	4A	Solder Lug	679-1203-ND	21.35	19.47	17.59	11146A
		On-Off-Mom	4A	Solder Lug	679-1204-ND	24.21	22.08	19.94	11148A
2	DPDT	On-On	4A	Solder Lug	679-1205-ND	40.66	37.08	33.49	12146A
		Mom-Off-Mom	4A	Solder Lug	679-1206-ND	47.91	43.68	39.46	12147A
		On-Off-Mom	4A	Solder Lug	679-1207-ND	47.84	43.62	39.40	12148A
		On-Off-On	4A	Solder Lug	679-1208-ND	43.86	39.99	36.12	12149A
	3PDT	On-Off-Mom	4A	Solder Lug	679-1209-ND	61.27	55.87	50.46	12158A
3	SPST	On-Off	15A	Screw	679-1210-ND	4.79	4.38	3.95	631H
		On-Off	15A	.250”QC	679-1211-ND	4.52	4.13	3.73	631H/2
		On-Off	15A	.250”QC	679-1212-ND†	17.58	16.03	14.48	631H/22V
		On-Off	15A	.250”QC	679-1213-ND	10.06	9.18	8.29	631H/2K
	SPDT	On-Mom	15A	Screw	679-1214-ND	6.87	6.27	5.66	635H
		On-Mom	15A	.250”QC	679-1215-ND	6.46	5.89	5.32	635H/2
		On-On	15A	Screw	679-1216-ND	5.78	5.27	4.76	636H
		On-On	15A	.250”QC	679-1217-ND	5.34	4.87	4.40	636H/2
		Mom-Off-Mom	10A	Screw	679-1218-ND	6.87	6.27	5.66	637H
		Mom-Off-Mom	10A	.250”QC	679-1219-ND	5.68	5.18	4.68	637H/2
		On-Off-Mom	10A	Screw	679-1220-ND	6.87	6.27	5.66	638H
		On-Off-Mom	10A	.250”QC	679-1221-ND	5.75	5.24	4.74	638H/2
		On-Off-On	10A	Screw	679-1222-ND	5.85	5.34	4.82	639H
		On-Off-On	10A	.250”QC	679-1223-ND	5.44	4.96	4.48	639H/2
		On-Off-On	10A	.250”QC	679-1224-ND	11.32	10.33	9.33	639H/2K
	DPST	On-Off	15A	Screw	679-1225-ND	8.26	7.54	6.81	641H
		On-Off	15A	.250”QC	679-1226-ND	7.72	7.04	6.36	641H/2
		On-Off	15A	.250”QC	679-1227-ND†	22.51	20.53	18.54	641H/22V
	DP3T	On-On-On	10A	.250”QC	679-1228-ND	11.05	10.08	9.10	644H/2
		Mom-On-Mom	10A	.250”QC	679-1229-ND	12.17	11.10	10.03	644H/22R
	DPDT	On-Mom	10A	.250”QC	679-1230-ND	11.05	10.08	9.10	645H/2
		On-On	15A	Screw	679-1231-ND	10.00	9.12	8.24	646H
		On-On	15A	.250”QC	679-1232-ND	9.15	8.34	7.54	646H/2
		Mom-Off-Mom	10A	Screw	679-1233-ND	11.97	10.92	9.86	647H
		Mom-Off-Mom	10A	.250”QC	679-1234-ND	9.76	8.90	8.04	647H/2
		On-Off-Mom	10A	Screw	679-1235-ND	11.97	10.92	9.86	648H
		On-Off-Mom	10A	.250”QC	679-1236-ND	11.05	10.08	9.10	648H/2
		On-Off-On	10A	Screw	679-1237-ND	10.20	9.30	8.40	649H
		On-Off-On	10A	.250”QC	679-1238-ND	9.38	8.56	7.73	649H/2
	3PST	On-Off	15A	.250”QC	679-1239-ND	15.10	13.77	12.44	651H/2
	3PDT	On-On	15A	Screw	679-1240-ND	18.60	16.96	15.32	656H
		On-On	15A	.250”QC	679-1241-ND	17.20	15.69	14.17	656H/2
		Mom-Off-Mom	10A	Screw	679-1242-ND	19.65	17.92	16.19	657H
		Mom-Off-Mom	10A	.250”QC	679-1243-ND	18.26	16.65	15.04	657H/2
		On-Off-On	10A	.250”QC	679-1244-ND	17.58	16.03	14.48	659H/2
4	SPST	On-Off	15A	Screw	679-1245-ND	4.79	4.38	3.95	631NH
		On-Off	15A	.250”QC	679-1246-ND	4.52	4.13	3.73	631NH/2
	SPDT	On-Mom	15A	.250”QC	679-1247-ND	6.46	5.89	5.32	635NH/2
		Mom-Off-Mom	10A	.250”QC	679-1248-ND	6.46	5.89	5.32	637NH/2
		On-Off-On	10A	.250”QC	679-1249-ND	5.44	4.96	4.48	639NH/2
	DPST	On-Off	15A	.250”QC	679-1250-ND	7.72	7.04	6.36	641NH/2
	DPDT	On-Mom	15A	.250”QC	679-1251-ND	11.05	10.08	9.10	645NH/2
		Mom-Off-Mom	10A	.250”QC	679-1252-ND	11.05	10.08	9.10	647NH/2
		On-Off-Mom	10A	.250”QC	679-1253-ND	11.05	10.08	9.10	648NH/2
		On-Off-On	10A	.250”QC	679-1254-ND	9.38	8.56	7.73	649NH/2
	3PST	On-Off	15A	.250”QC	679-1255-ND	13.36	12.19	11.01	651NH/2
	3PDT	On-On	15A	.250”QC	679-1256-ND	15.23	13.89	12.55	656NH/2
5	SPDT	On-On	20A	Screw	679-1257-ND	32.50	29.64	26.77	3536001N000
		Mom-Off-Mom	15A	Screw	679-1258-ND	33.49	30.54	27.58	3537001N000
6	SPST	On-Off	6A	.110”QC	679-1259-ND	4.05	3.69	3.34	4631A22UU
	SPDT	On-On	6A	.110”QC	679-1260-ND	4.90	4.47	4.04	4636A22UU
		On-Off-On	6A	.110”QC	679-1261-ND	5.30	4.84	4.37	4639A22UU
	DPST	On-Off	6A	.110”QC	679-1262-ND	5.41	4.93	4.46	4641A22UU
	DPDT	On-On	6A	.110”QC	679-1263-ND	7.04	6.42	5.80	4646A22UU
		On-Off-On	6A	.110”QC	679-1264-ND	7.48	6.82	6.16	4649A22UU
7	SPST	On-Off	12A	Screw	679-1265-ND	15.40	14.05	12.69	3631NF
		On-Off	12A	Solder Lug	679-1266-ND	14.72	13.43	12.13	3631NF/2
	SPDT	On-Mom	12A	Screw	679-1267-ND	19.04	17.36	15.68	3635NF
		On-Mom	12A	Solder Lug	679-1268-ND	18.36	16.74	15.12	3635NF/2
		On-On	12A	Screw	679-1269-ND	17.37	15.85	14.31	3636NF
		On-On	12A	Solder Lug	679-1270-ND	16.32	14.88	13.44	3636NF/2
		Mom-Off-Mom	12A	Screw	679-1271-ND	19.04	17.36	15.68	3637NF
		Mom-Off-Mom	12A	Solder Lug	679-1272-ND	17.99	16.40	14.82	3637NF/2
		On-Off-On	12A	Screw	679-1273-ND	17.78	16.22	14.65	3639NF
		On-Off-On	12A	Solder Lug	679-1274-ND	16.83	15.35	13.86	3639NF/2
	DPST	On-Off	12A	Screw	679-1275-ND	20.43	18.64	16.83	3641NF
		On-Off	12A	Solder Lug	679-1276-ND	19.11	17.43	15.74	3641NF/2
	DPDT	On-Mom	12A	Screw	679-1277-ND	26.69	24.34	21.98	3645NF
		On-Mom	12A	Solder Lug	679-1278-ND	24.72	22.54	20.36	3645NF/2
		On-On	12A	Screw	679-1279-ND	23.19	21.15	19.10	3646NF
		On-On	12A	Solder Lug	679-1280-ND	21.22	19.35	17.48	3646NF/2
		Mom-Off-Mom	12A	Screw	679-1281-ND	26.69	24.34	21.98	3647NF
		Mom-Off-Mom	12A	Solder Lug	679-1282-ND	24.72	22.54	20.36	3647NF/2
		On-Off-On	12A	Screw	679-1283-ND	23.80	21.70	19.60	3649NF
		On-Off-On	12A	Solder Lug	679-1284-ND	23.15	21.12	19.07	3649NF/2

† Locking Lever

Fig. 1 – 11000 Series

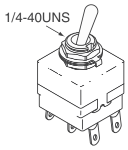

Fig. 2 – 12000 Series

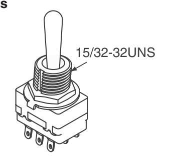

Fig. 3 – 600H Series

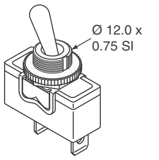

Fig. 4 – 600NH Series

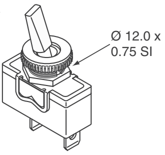

Fig. 5 – 3500 Series – IP67

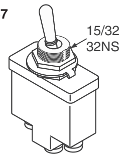

Fig. 6 – 4600 Series

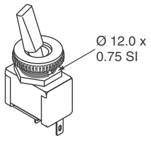

Fig. 7 – 3600NF Series – Sealed

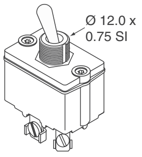

Sealing Boots

	Digi-Key		Price Each		APEM
Description	Part No.	1	25	100	Part No.
Full-Boot, Nickel Plated Hex Nut (15/32-32NS) used for 12000 and 3500 Series	679-1286-ND	3.57	3.26	2.94	U1031
Full-Boot, Matte Black Hex Nut (15/32-32NS) used for 12000 and 3500 Series	679-1285-ND	3.23	2.95	2.66	U1024
Half-Boot, Nickel Plated Hex Nut (15/32-32NS) used for 12000 and 3500 Series	679-1295-ND	2.45	2.24	2.02	U1600
Half-Boot, Matte Black Hex Nut (15/32-32NS) used for 12000 and 3500 Series	679-1296-ND	3.23	2.95	2.66	U1602
Full-Boot, Nickel Plated Hex Nut (12mm) used for 600H and 3600 Series	679-1293-ND	4.76	4.34	3.92	U1565
Full-Boot, Matte Black Hex Nut (12mm) used for 600H and 3600 Series	679-1294-ND	5.44	4.96	4.48	U1567
Half-Boot, Nickel Plated Hex Nut (12mm) used for 600H and 3600 Series	679-1287-ND	4.76	4.34	3.92	U1151
Half-Boot, Matte Black Hex Nut (12mm) used for 600H and 3600 Series	679-1288-ND	5.44	4.96	4.48	U1153
Full-Boot, Nickel Plated Knurled Nut (1/4-40UNS) used for 11000 Series	679-1291-ND	2.41	2.21	1.99	U1331
Full-Boot, Matte Black Knurled Nut (1/4-40UNS) used for 11000 Series	679-1292-ND	5.03	4.59	4.15	U1333
Full-Boot, Nickel Plated Hex Nut (1/4-40UNS) used for 11000 Series	679-1289-ND	2.52	2.30	2.08	U1229
Full-Boot, Matte Black Hex Nut (1/4-40UNS) used for 11000 Series	679-1290-ND	2.79	2.55	2.30	U1231

Full-Boot

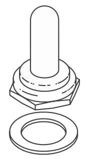

Half-Boot

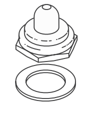

NKK® SWITCHES

Pushbutton Switches

MB2000 Series:
Guide interlocked with actuator block prevents window locking and maintains correct plunger alignment to assure contact stability. Employs an over-center actuator mechanism, which diminishes sparking and increases operating life in AC circuits.
- **Contact Resistance:** 10 milliohms maximum for silver: 20 milliohms maximum for gold
- **Insulation Resistance:** 1,000V megohms minimum @ 500V DC
- **Mechanical Life:** 50,000 operations minimum for splashproof models 100,000 for all other models

MB2400 Series:
Anti-jamming design protects contacts from damage due to excessive downward force on the actuator. Stainless steel frame resists corrosion.
- **Contact Resistance:** 20 milliohms maximum for silver: 30 milliohms maximum for gold
- **Insulation Resistance:** 1,000 megohms minimum @ 500V AC
- **Mechanical Life:** 200,000 operations minimum
- **Operating Temperature Range:** -30° ~ 85°C
- **Cleaning:** These devices are not process sealed. Hand clean locally.

Contact Material Options
W= 3A @ 125 VAC
G = 0.4VA max @ 28V AC/DC max
MB2000 Series W = 6A @125VAC

Bushings

A1
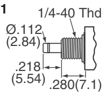

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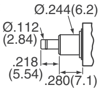

B1
B3 – Splash-proof
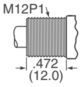

D3
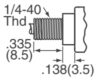

E1
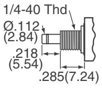

S1
S2 – Un-threaded
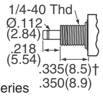

†MB2000 Series

Fig.	Circuit	Switching Function	Termination	Bushing	Contact Material	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
MB2000 Series — Miniature Pushbuttons With .394" Black Cap										
1	SPDT	On-Mom	Solder Lug	S1	W	360-2165-ND	5.85	3.90	3.49	MB2011SS1W01-CA-RO
	SPDT	On Mom	PCB	S1	W	360-2166-ND	5.98	3.98	3.57	MB2011SS1W03-CA-RO
	SPDT	On-Mom	Solder Lug	D3	W	360-2170-ND	7.03	4.78	4.30	MB2011SD3W01-CA-RO
	SPDT	On-On	Solder Lug	S1	W	360-2171-ND	6.06	4.04	3.62	MB2065SS1W01-CA-RO
	SPDT	On-On	PCB	S1	W	360-2190-ND	6.19	4.12	3.69	MB2065SS1W03-CA-RO
	DPDT	On-Mom	Solder Lug	S1	W	360-2176-ND	7.38	5.02	4.52	MB2061SS1W01-CA-RO
	DPDT	On-On	Solder Lug	S1	W	360-2177-ND	7.83	5.33	4.86	MB2085SS1W01-CA-RO
	4PDT	On-Mom	Solder Lug	S1	W	360-2178-ND	11.43	8.11	7.71	MB2181SS1W01-CA-RO
	4PDT	On-On	Solder Lug	S1	W	360-2179-ND	11.63	8.43	7.50	MB2185SS1W01-CA-RO
2	SPDT	On- Mom	Bracket PCB	S2	W	360-2169-ND	6.24	4.16	3.72	MB2011SS2W13-CA-RO
3	SPDT	On-Mom	Right Angle PCB	S2	G	360-2167-ND	6.83	4.73	4.18	MB2011SS2G30-CA-RO
	SPDT	On-Mom	Right Angle PCB	S1	W	360-2168-ND	6.28	4.35	3.85	MB2011SS1W30-CA-RO
	SPDT	On-On	Right Angle PCB	S1	W	360-2191-ND	6.48	4.49	3.97	MB2065SS1W30-CA-RO
	SPDT	On-On	Right Angle PCB	S2	W	360-2192-ND	6.48	4.49	3.97	MB2065SS2W30-CA-RO
4	SPDT	On-On	Vertical PCB	S2	W	360-2175-ND	6.75	4.68	4.14	MB2065SS2W40-CA-RO
5	SPDT	On-Mom	Solder Lug	B1	W	360-2180-ND	7.90	5.38	4.90	MB2011SB1W01-DA-RO
	SPDT	On-Mom	Solder Lug	B3	W	360-2181-ND	8.64	5.94	5.58	MB2011SB3W01-DA-RO
	SPDT	On-On	Solder Lug	B1	W	360-2182-ND	8.10	5.51	5.03	MB2065SB1W01-DA-RO
	SPDT	On-On	Solder Lug	B3	W	360-2189-ND	8.83	6.08	5.71	MB2065SB3W01-DA-RO
MB2000 Accessories										
Waterproof Boot for Momentary 1/4 - 40NS						360-2184-ND	3.51	2.17	1.91	AT4041H
Waterproof Boot for Alternate 1/4 - 40NS						360-2185-ND	3.51	2.17	1.91	AT4042H
Waterproof Boot M12 Thread						360-2186-ND	4.48	2.80	2.56	AT4043
MB2400 Series — Snap - Action Miniature Pushbuttons										
1	SPDT	On-Mom	Solder Lug	E1	W	360-2139-ND	5.38	3.59	3.21	MB2411E1W01-RO
	SPDT	On-Mom	Solder Lug	E1	G	360-2140-ND	5.82	3.88	3.48	MB2411E1G01-RO
	SPDT	On-Mom	Solder Lug	S1	W	360-2141-ND	5.38	3.59	3.21	MB2411S1W01-RO
	SPDT	On-Mom	PCB	A1	W	360-2142-ND	5.56	3.71	3.32	MB2411A1W03-RO
	SPDT	On-Mom	PCB	E1	W	360-2143-ND	5.56	3.71	3.32	MB2411E1W03-RO
	SPDT	On-Mom	PCB	E1	G	360-2144-ND	5.98	3.98	3.57	MB2411E1G03-RO
	DPDT	On-Mom	Solder Lug	E1	W	360-2152-ND	7.10	4.83	4.35	MB2461E1W01-RO
	DPDT	On-Mom	Solder Lug	E1	G	360-2153-ND	7.95	5.41	4.93	MB2461E1G01-RO
	DPDT	On-Mom	PCB	E1	G	360-2154-ND	7.94	5.63	5.14	MB2461E1G03-RO
2	SPDT	On-Mom	Bracket PCB	A2	W	360-2145-ND	5.77	3.85	3.45	MB2411A2W13-RO
	SPDT	On-Mom	Bracket PCB	A2	G	360-2146-ND	6.21	4.14	3.71	MB2411A2G13-RO
3	SPDT	On-Mom	Right Angle PCB	A2	W	360-2147-ND	6.21	4.14	3.71	MB2411A2W30-RO
	SPDT	On-Mom	Right Angle PCB	A2	G	360-2148-ND	6.40	4.43	3.92	MB2411A2G30-RO
4	SPDT	On-Mom	Vertical PCB	A2	W	360-2149-ND	6.42	4.28	3.83	MB2411A2W40-RO
	SPDT	On-Mom	Vertical PCB	A2	G	360-2150-ND	6.60	4.57	4.04	MB2411A2G40-RO
	SPDT	On-Mom	Vertical PCB	A1	G	360-2151-ND	6.60	4.57	4.04	MB2411A1G40-RO
6	SPDT	On-Mom	Solder Lug	Blk Cap	W	360-2155-ND	7.25	4.93	4.44	MB2411JW01-A-1A
	SPDT	On-Mom	Solder Lug	Blk Cap	G	360-2156-ND	7.68	5.22	4.76	MB2411JG01-A-1A
	DPDT	On-Mom	Solder Lug	Blk Cap	W	360-2157-ND	8.83	6.08	5.71	MB2461JW01-A-1A
	DPDT	On-Mom	Solder Lug	Blk Cap	G	360-2158-ND	9.62	6.54	6.22	MB2461JG01-A-1A
MB2400 Accessories										
Switch Cap, .201 Black						360-2159-ND	.51	.25	.20	AT475A
Switch Cap, .201 White						360-2160-ND	.51	.25	.20	AT475B
Switch Cap, .201 Red						360-2161-ND	.51	.25	.20	AT475C
Switch Cap, .295 Black						360-2162-ND	.65	.32	.26	AT496A
Switch Cap, .295 White						360-2163-ND	.65	.32	.26	AT496B
Switch Cap, .295 Red						360-2164-ND	.65	.32	.26	AT496C

Dim. in Inches (mm)

Fig. 1
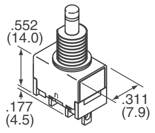

Fig. 2
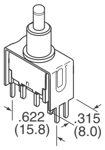

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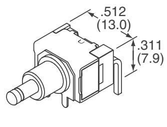

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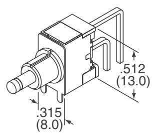

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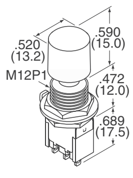

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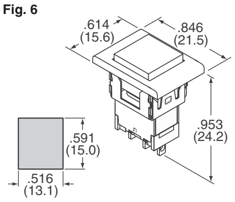

Slide Switches

AS Series: 1/3 size of Series M switches. Specifically developed for logic-level applications. Antistatic superstructure of carbon blended polyacetal prevents static discharge to the contacts. **Specifications:** 0.4VA maximum at 28V AC/DC maximum • **Contact Resistance:** 50 milliohms maximum • **Insulation Resistance:** 500 megohms minimum at 500V DC • **Mechanical Life:** 50,000 operations minimum • **Electrical Life:** 50,000 operations minimum • **Operating Force:** 2.55N • **Contact Timing:** Nonshorting (break-before-make) • **Operating Temperature Range:** -30°C ~ 85°C **CS Series:** • High performance and high quality at a low price. Epoxy sealed terminals to lock out flux dust, and other contaminants. Suited for a wide variety of applications including telecommunications, electronic controls, audio devices and household appliances. **Specifications:** • **Contact Resistance:** 100 milliohms maximum • **Insulation Resistance:** 1,000 megohms minimum at 500 V DC • **Mechanical Life:** 50,000 operations minimum • **Electrical Life:** 20,000 operations minimum • **Contact Timing:** Nonshorting (break-before-make) • **Operating Temperature Range:** -30°C ~ 85°C **SS Series:** • Compact dimensions and low profile allow high density mounting and close stacking of PC boards. Crisp actuation positively indicates circuit status. **Specifications:** • **Contact Resistance:** 20 milliohms maximum for power level, 40 milliohms maximum for logic level • **Insulation Resistance:** 10 megohms minimum at 500V DC • **Mechanical Life:** 10,000 operations minimum • **Electrical Life:** 10,000 operations minimum • **Contact Timing:** Shorting (make-before-break) • **Operating Temp Range:** -15°C ~ 60°C

Fig.	Circuit	Switching Function	Rating	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Sub-Miniature Slides								
1	SPDT	On-On	0.4V @ 28VAC/DC	360-2121-ND	4.00	2.49	2.25	AS12AP
	SPDT	On-Off-On		360-2124-ND	4.23	2.63	2.38	AS13AP
	DPDT	On-On		360-2127-ND	5.01	3.19	2.92	AS22AP
	DPDT	On-Off-On		360-2129-ND	5.29	3.43	3.14	AS23AP
2	SPDT	On-On	0.4V @ 28VAC/DC	360-2122-ND	4.54	2.84	2.60	AS12AH-RO
	SPDT	On-Off-On		360-2125-ND	4.76	2.98	2.72	AS13AH-RO
	DPDT	On-On		360-2128-ND	5.67	3.78	3.38	AS22AH-RO
	DPDT	On-Off-On		360-2130-ND	6.03	4.02	3.60	AS23AH-RO
3	SPDT	On-On	0.4V @ 28VAC/DC	360-2123-ND	4.54	2.84	2.60	AS12AV-RO
	SPDT	On-Off-On		360-2126-ND	4.76	2.98	2.72	AS13AV-RO
Miniature Power Rated Slides								
4	SPDT	On-On	3A @ 125VAC	360-2131-ND	2.56	1.52	1.36	CS12ANW03
	DPDT	On-On		360-2132-ND	3.24	2.00	1.77	CS22BNW03
Ultra-Miniature Slides								
5	SPDT	On-On	0.1A @ 30VDC	360-2133-ND	1.89	1.08	.94	SS12SDP2
	SP3T	On-On-On		360-2135-ND	2.24	1.33	1.18	SS14MDP2
	DPDT	On-On		360-2137-ND	2.18	1.25	1.11	SS22SDP2
6	SPDT	On-On	0.1A @ 30VDC	360-2134-ND	1.89	1.08	.94	SS12SDH2
	SP3T	On-On-On		360-2136-ND	2.24	1.33	1.18	SS14MDH2
	DPDT	On-On		360-2138-ND	2.18	1.25	1.11	SS22SDH2

Dim. in Inches (mm)

Fig. 1
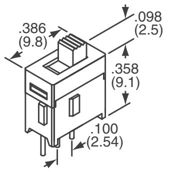

Fig. 2
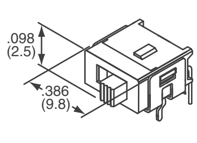

Fig. 3
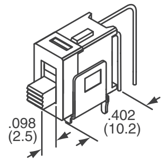

Fig. 4
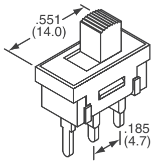

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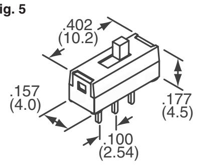

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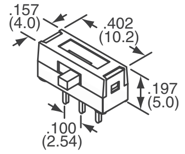

Carling Technologies™

Power Toggle Switches

General purpose workhorses with options tailored to meet most any need. International approvals, and circuit choices easily integrates into a variety of different applications. The F-Series has a storied history in the Marine, Food Service, Generator, Industrial Control, and Office Automation markets and is appropriate for usage in low voltage DC applications as well. Hardware included.

Operating Temperature: 0°F ~ 150°F (G-Series 85°C) **Thread:** 15/32 - 32UNS - 2A

Fig. 1

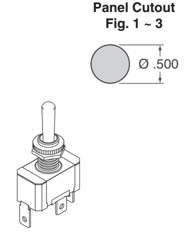

Fig. 2

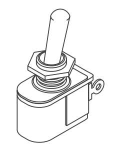

Fig. 3

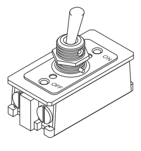

Fig.	Circuit	Function	Terminals	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	25	50	Carling Tech. Part No.
1	SPST	On-Off	.250" QC	15A	432-1074-ND◆	4.16	2.24	1.60	2FA53-73/TABS
	SPST	On-Off	Screw	15A	432-1075-ND	4.78	2.58	1.84	2FA54-73
	SPDT	On-On	.250" QC	15A	432-1076-ND	5.14	2.77	1.98	2FB53-73/TABS
	SPDT	On-Off-On	.250" QC	15A	432-1077-ND◆	5.14	2.77	1.98	2FC53-73/TABS
	SPDT	On-Off-On	Screw	15A	432-1078-ND◆	6.01	3.24	2.32	2FC54-73
	SPDT	Mom-Off-Mom	Screw	15A	432-1079-ND◆	8.35	4.50	3.22	6FC54-73
	DPST	On-Off	.250" QC	15A	432-1080-ND◆	6.60	3.56	2.54	2GK51-73
	DPST	On-Off	Screw	15A	432-1081-ND	7.09	3.82	2.73	2GK54-73
	DPDT	On-On	Screw	15A	432-1082-ND◆	9.65	5.20	3.72	2GL54-73
	DPDT	On-Off-On	.250" QC	15A	432-1083-ND◆	7.90	4.26	3.04	2GM51-73
	DPDT	On-Off-On	Screw	15A	432-1084-ND◆	9.65	5.20	3.72	2GM54-73
	3PST	On-Off	Screw	15A	432-1085-ND	14.30	7.70	5.50	HK254-73
2	SPST	On-Off	Solder Lug	6A	432-1216-ND◆	6.21	3.35	2.39	110-73
	SPST	On-Off	Screw	6A	432-1217-ND	6.21	3.35	2.39	110-S-73
	SPST	On-Off	6" Wire Lead	6A	432-1086-ND	6.21	3.35	2.39	111-16-73
3	DPST	On-Off	Screw	16A	432-1087-ND◆	9.91	5.34	3.82	DK284-73

◆ ***RoHS Compliant***

Power Pushbutton Switches

Fig. 1

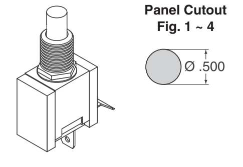

Fig. 2

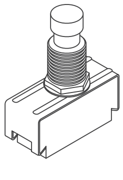

Fig. 3

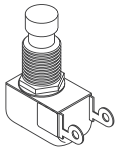

Fig. 4

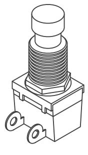

Rugged metal construction, self cleaning contacts and stiff actuation force have made these switches a pillar in the music industry and audiovisual markets. High amperage combined with a low profile makes these switches ideal for "foot-pedal" applications. Hardware included.

Operating Temperature: 32°F ~ 185°F (0°C ~ 85°C)

Thread: 15/32 - 32UNS - 2A

Fig.	Circuit	Function	Terminals	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	25	50	Carling Tech. Part No.
1	SPST	On-Off	.250" QC	20A	432-1205-ND◆	9.95	5.36	3.83	PA301
	SPST	On-Off	Screw	20A	432-1206-ND◆	10.66	5.74	4.10	PA304
2	SPST	On-Mom	Screw	15A	432-1207-ND◆	9.13	4.92	3.52	170
	SPST	Off-Mom	Screw	15A	432-1208-ND◆	9.13	4.92	3.52	172
3	SPST	On-Off	Solder Lug	6A	432-1209-ND◆	8.26	4.45	3.18	110-P
	SPST	On-Off	Screw	6A	432-1210-ND	8.58	4.62	3.30	110-SP
	SPDT	On-On	Solder Lug	3A	432-1211-ND◆	13.07	7.04	5.03	112-P
4	SPST	On-Off	Solder Lug	5A	432-1212-ND◆	3.74	2.81	2.49	64111210
	SPDT	On-On	Solder Lug	5A	432-1213-ND◆	8.84	4.76	3.40	64111220
	DPST	On-Off	Solder Lug	5A	432-1214-ND	10.34	5.57	3.98	64112210
	DPDT	On-On	Solder Lug	5A	432-1215-ND◆	14.72	7.93	5.67	64112220

◆ ***RoHS Compliant***

Contura II Sealed Rocker Switches

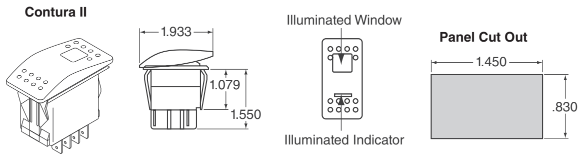

1 Position Panel Bracket

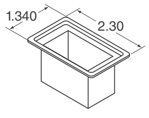

3 Position Panel Bracket

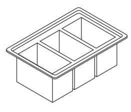

Stacking Panel Bracket

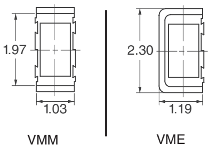

The V Series Contura II switches have been the benchmark sealed rocker switch for years. The Contura II is constructed of thermoplastic polycarbonate with a nylon 66 surface overlay and dual seal protection out to IP66/IP68 standards. Illuminated versions are superbright 12V LED for long life, .250" QC terminals for easy wiring to switch.

Specifications: • Actuator Type: Contour Rocker • Rating: 20A @ 12VDC • Contacts: Silver Cad-Oxide • Dielectric Strength: 1500V RMS • Life: 50-100K cycles depending on circuit • Terminals: .250"QC • Lighting: LED-Rated for 100K hours for half life

Terminals to be used with connector housing are 14-18AWG 42100-1, 18-22AWG 60295-2

Circuit	Function	Features	Actuator Color	Digi-Key Part No.	Price Each 1	25	50	Carling Tech. Part No.
SPST	On-Off	Illum. Grn. 12V/Amber 12V	Black	432-1088-ND	11.80	6.36	4.54	V1D2GHNB-AAC00-000
SPST	Off-Mom	Illum. Grn. 12V/Amber 12V	Black	432-1089-ND◆	12.35	6.65	4.75	V2D2GHNB-AAC00-000
SPDT	On-On-Off	Illum. Grn. 12V/Amber 12V	Black	432-1090-ND◆	15.57	8.39	5.99	VGD2GHNB-AAC00-000
SPDT	On-On	Illum. Grn. 12V/Amber 12V	Black	432-1091-ND◆	12.48	6.72	4.80	V4D2GHNB-AAC00-000
SPDT	On-Off-On	Illum. Grn. 12V/Amber 12V	Black	432-1092-ND	12.48	6.72	4.80	V6D2GHNB-AAC00-000
SP3T	On-On-On	Illum. Grn. 12V/Amber 12V	Black	432-1093-ND	16.58	8.93	6.38	VED2GHNB-AAC00-000
SPDT	Mom-Off-Mom	Illum. Grn. 12V/Amber 12V	Black	432-1094-ND	13.13	7.07	5.05	V8D2UHNB-AAC00-000
SPST	On-Off	Illuminated Incan 12V	Black	432-1095-ND◆	7.38	3.98	2.84	V1D2B60B-A9C00-000
SPST	Off-Mom	No Led or Lamp	Black	432-1096-ND◆	6.01	3.24	2.32	V2D2S00B-AZC00-000
SPDT	On-Off-On	Illuminated Incan 12V	Black	432-1097-ND	9.95	5.36	3.83	V6D2D66B-AAC00-000
DPDT	Mom-Off-Mom	Illum. Grn. 12V/Amber 12V	Black	432-1098-ND	15.28	8.23	5.88	VLD2GHNB-AAC00-000

◆ ***RoHS Compliant***

Accessories

Description	Digi-Key Part No.	Price Each 1	25	50	Carling Tech. Part No.
Removal Tool, for removing Contura Actuators	432-1100-ND◆	3.67	1.98	1.42	VRT
Gasket Seal for Waterproofing Switch to Panel	432-1101-ND◆	1.04	.56	.40	VPS-01
Connector Housing for Contura, Uses Amp 60295-2 Terminals	432-1102-ND◆	1.24	.67	.48	VC1-01
Hole Plug for Filling Panel Punch Holes Not Used, Black	432-1103-ND◆	1.53	.83	.59	VH2-01
Panel Bracket, Stacking Type Center Panel, Black	432-1104-ND◆	1.53	.83	.59	VMM-01
Panel Bracket, Stacking Type End Panel, Black	432-1105-ND◆	1.53	.83	.59	VME-01
Panel Bracket, 1 Position Switch Panel Mount, Black	432-1106-ND◆	1.89	1.02	.73	VMS-01
Panel Bracket, 3 Position Switch Panel Mount, Black	432-1107-ND◆	4.62	2.49	1.78	VM3-01
Panel Bracket, 6 Position Switch Panel Mount, Black	432-1108-ND	9.26	4.99	3.57	VM6-01

◆ ***RoHS Compliant***

CHERRY

Rocker Switches

RoHS COMPLIANT

Legend Marks

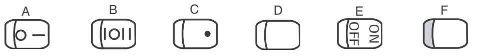

Fig. 1

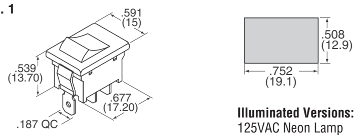

Illuminated Versions:
125VAC Neon Lamp

Fig. 2

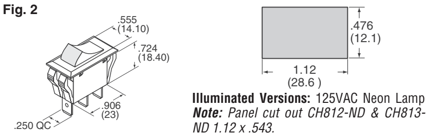

Illuminated Versions: 125VAC Neon Lamp
Note: *Panel cut out CH812-ND & CH813-ND 1.12 x .543.*

Fig. 3

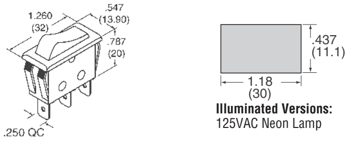

Illuminated Versions:
125VAC Neon Lamp

Fig. 4

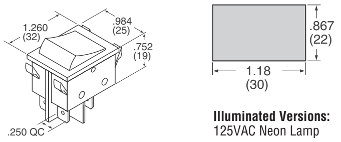

Illuminated Versions:
125VAC Neon Lamp

Fig. 5

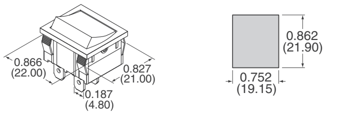

Fig. 6

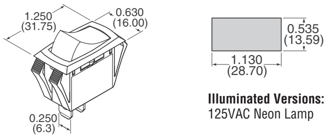

Illuminated Versions:
125VAC Neon Lamp

Fig. 7

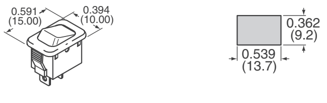

Fig. 8

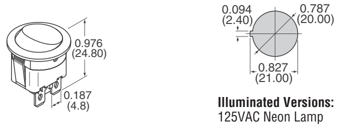

Illuminated Versions:
125VAC Neon Lamp

Fig. 9

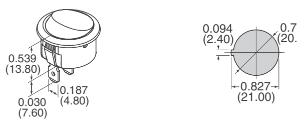

Fig.	Body Color	Actuator Color	Circuit Function	Switch Type	Legend Marking	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
SR Series — 10 Amp Miniature Rocker Switches										
1	Black	Black	On/Off	SPST	A	CH755-ND	.81	.72	.60	SRB22A2FBBNN
		Black	On/On	SPDT	D	CH756-ND	.86	.77	.64	SRB23A2BBBNN
		Black	On/Off/On	SPDT	B	CH757-ND	1.03	.92	.76	SRB24A2HBBNN
		Black	On/Off	SPST	D	CH758-ND	.78	.70	.58	SRB22A2BBBNN
		Black	On/Off	SPST	C	CH759-ND	.78	.70	.58	SRB22A2GBBNN
		Black	On/Off	SPST	E	CH760-ND	.78	.70	.58	SRB22A2DBBNN
		Red	On/Off	SPST	A	CH761-ND	.81	.72	.60	SRB22A2FBRNN
		White	On/Off	SPST	D	CH762-ND	.81	.72	.60	SRB22A2BBWNN
LR Series — 10 Amp Multi-pole Rocker Switches										
1	Black	Black	On/Off	SPST	D	CH763-ND	.95	.84	.70	LRA22H2BBBNN
		Black	On/Off	SPST	A	CH764-ND	.95	.84	.70	LRA22H2FBBNN
		Black	On/Off	SPST	E	CH765-ND	.95	.84	.70	LRA22H2DBBNN
	Grey	Grey	On/Off	SPST	A	CH768-ND	1.03	.92	.76	LRA22H2FYYNN
	Black	Black	On/Off	DPST	A	CH770-ND	1.05	.94	.78	LRA32H2FBBNN
		Black	On/Off	DPST	E	CH771-ND	1.05	.94	.78	LRA32H2DBBNN
		Red-Illuminated	On/Off	DPST	D	CH773-ND	1.27	1.13	.94	LRA32H2BBRLN
		Red-Illuminated	On/Off	SPST	A	CH774-ND	1.19	1.06	.88	LRA22H2FBRLN
		Red-Illuminated	On/Off	DPST	A	CH775-ND	1.27	1.13	.94	LRA32H2FBRLN
		Green-Illuminated	On/Off	SPST	D	CH776-ND	1.19	1.06	.88	LRA22H2BBGLN
		Green-Illuminated	On/Off	DPST	A	CH779-ND	1.27	1.13	.94	LRA32H2FBGLN
		Amber-Illuminated	On/Off	SPST	D	CH780-ND	1.19	1.06	.88	LRA22H2BBALN
		Amber-Illuminated	On/Off	DPST	D	CH781-ND	1.27	1.13	.94	LRA32H2BBALN
CR Series — 20 Amp Standard Rocker Switches										
2	Black	Black	On/Off	SPST	D	CH798-ND	.97	.87	.72	CRE22F2BBBNE
		Black	On/Off	SPST	A	CH799-ND	.97	.87	.72	CRE22F2FBBNE
		Black/Red Shade	On/Off	SPST	F	CH800-ND	1.03	.92	.76	CRE22F4BBBNE
		Black/Red Shade	On/Off	SPST	E/F	CH801-ND	1.03	.92	.76	CRE22F4DBBNE
		Black/Red Shade	On/Off	SPST	A/F	CH840-ND	1.03	.92	.76	CRE22F4FBBNE
		Black	On/Off	SPST	E	CH802-ND	.97	.87	.72	CRE22F2PBBNE
		Red	On/Off	SPST	A	CH803-ND	1.03	.92	.76	CRE22F2FBRNE
	White	White/Red Shade	On/Off	SPST	F	CH804-ND	1.05	.94	.78	CRE22F4BWWNE
	Grey	Grey/Red Shade	On/Off	SPST	F	CH805-ND	1.05	.94	.78	CRE22F4BYYNE
	Black	Black	On/On	SPDT	D	CH806-ND	1.08	.96	.80	CRE23F2BBBNE
		Black	On/Off/On	SPDT	B	CH807-ND	1.11	.99	.82	CRE24F2HBBNE
		Red	On/Off/On	SPDT	D	CH808-ND	1.11	.99	.82	CRE24F2BBRNE
		Red-Illuminated	On/Off	SPST	D	CH809-ND	1.24	1.11	.92	CRE22F2BBRLE
		Amber-Illuminated	On/Off	SPST	D	CH810-ND	1.24	1.11	.92	CRE22F2BBALE
		Green-Illuminated	On/Off	SPST	D	CH811-ND	1.24	1.11	.92	CRE22F2BBGLE
		Black/Red Shade Washable	On/Off	SPST	F	CH813-ND	1.46	1.30	1.08	CRE22F4BBBNW

Fig.	Body Color	Actuator Color	Circuit Function	Switch Type	Legend Marking	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
TR Series — 16 Amp Thin Power Rocker Switches										
3	Black	Black	On/Off	SPST	A	CH792-ND	1.11	.99	.82	TRG22F2FBBNN
		Black	On/Off	SPST	E	CH793-ND	1.11	.99	.82	TRG22F2DBBNN
		Red	On/Off	SPST	A	CH794-ND	1.13	1.01	.84	TRG22F2FBRNN
		Red-Illuminated	On/Off	SPST	D	CH795-ND	1.32	1.18	.98	TRG22F2BBRLN
		Green-Illuminated	On/Off	SPST	D	CH796-ND	1.32	1.18	.98	TRG22F2BBGLN
WR Series — 16 Amp Double-Pole Large Rocker Switches										
4	Black	Black	On/Off	DPST	A	CH784-ND	1.46	1.30	1.08	WRG32F2FBBNN
		Black	On/Off	DPST	A	CH785-ND	1.46	1.30	1.08	WRG32F5FBBNN
		Black	On/Off/On	DPDT	B	CH786-ND	1.73	1.54	1.28	WRG34F2HBBNN
		Red-Illuminated	On/Off	DPST	D	CH787-ND	1.78	1.59	1.32	WRG32F2BBRLN
		Red-Illuminated	On/Off	DPST	A	CH788-ND	1.78	1.59	1.32	WRG32F2FBRLN
		Red-Illuminated	On/Off	DPST	D	CH789-ND	1.78	1.59	1.32	WRG32F5BBRLN
		Green-Illuminated	On/Off	DPST	D	CH790-ND	1.78	1.59	1.32	WRG32F2BBGLN
		Green-Illuminated	On/Off	DPST	A	CH791-ND	1.78	1.59	1.32	WRG32F2FBGLN
FR Series — 12 Amp Double-Pole Rocker Switches										
5	Black	Black	On/Off	DPST	D	CH856-ND	1.57	1.40	1.16	FRH32A2BBBNN
		Black	On/On	DPDT	D	CH857-ND	1.57	1.40	1.16	FRH33A2BBBNN
		Black	On/Off	DPST	E	CH859-ND	1.57	1.40	1.16	FRH32A2DBBNN
GR Series — 15 Amp Compact Rocker Switches										
6	Black	Black	On/Off	SPST	D	CH860-ND	.81	.72	.60	GRF22N2BBBNN
		Black	On/Off	SPST	A	CH861-ND	.81	.72	.60	GRF22N2FBBNN
		Black	On/On	SPDT	D	CH862-ND	.89	.80	.66	GRF23N2BBBNN
		Red-Illuminated	On/Off	SPST	D	CH863-ND	1.13	1.01	.84	GRF22N2BBRLN
PR Series — 6 Amp Power Rocker Switches										
7	Black	Black	On/Off	SPST	D	CH864-ND	1.11	.99	.82	PRK22J5BBBNN
		Black	On/Off	SPST	E	CH865-ND	1.11	.99	.82	PRK22J5DBBNN
RR Series — 10 Amp Round Rocker Switches										
8	Black	Black	On/Off	SPST	D	CH866-ND	1.05	.94	.78	RRA22H3BBBNN
	Black	Black	On/Off	DPST	A	CH867-ND	1.57	1.40	1.16	RRA32H3FBBNN
	White	White	On/Off	SPST	D	CH868-ND	1.05	.94	.78	RRA22H3BWWNN
	Black	Red	On/Off	SPST	A	CH869-ND	1.05	.94	.78	RRA22H3FBRNN
	Black	Red-Illuminated	On/Off	SPST	D	CH870-ND	1.40	1.25	1.04	RRA22H3BBRLN
	Black	Red-Illuminated	On/Off	DPST	D	CH871-ND	1.89	1.68	1.40	RRA32H3BBRLN
	Black	Amber-Illuminated	On/Off	SPST	D	CH872-ND	1.40	1.25	1.04	RRA22H3BBALN
	Black	Red-Illuminated	On/Off	SPST	D	CH873-ND‡	1.40	1.25	1.04	RRA22H3BBRHN
	White	Red	On/Off	SPST	D	CH874-ND	1.05	.94	.78	RRA22H3BWRNN
SR Series — 20 Amp Miniature Round Rocker Switches										
9	Black	Black	On/Off	SPST	D	CH875-ND	1.19	1.06	.88	SRJ22A3BBBNN
		Black	On/On	SPDT	D	CH876-ND	1.38	1.23	1.02	SRJ23A3BBBNN
		Black	On/Off/On	SPDT	D	CH877-ND	1.49	1.32	1.10	SRJ24A3BBBNN
		Black	On/Off/On	SPDT	B	CH878-ND	1.49	1.32	1.10	SRJ24A3HBBNN

‡ 12 VDC Incandescent

NKK® SWITCHES

Internationally Approved Rocker Switches

High Inrush TV Rated

RoHS COMPLIANT

JW Series: Industry's first molded rockers with TV rating (JWM and JWMW: TV-5; JWL: TV-8). UL, CSA, VDE, SEMKO and SEV approved. Silver contacts, epoxy sealed solder lug terminals. **Electrical Capacity:** JWM and JWMW: 10A @ 125/250VAC; JWMW: 10A @ 30VDC; JWL: 16A @ 125/250VAC. **Dielectric Strength:** 2,000VAC minimum between contacts; 4,000VAC minimum between contacts and case. **Electrical Life:** 25,000 operations minimum **Operating Temperature:** -25°C ~ 70°C. **Angle of Throw:** 26° **Terminals:** JWM and JWMW: Solder lugs, JWL: .187" QC All switches are black body with black actuator. IP67 Panel Seal Option available.

Fig. 1

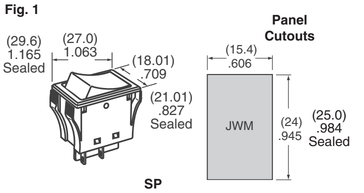

Fig. 2

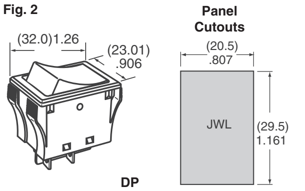

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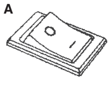

Inscription for Horizontal Mounting

B

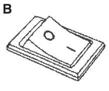

Inscription for Vertical Mounting

Fig.	Switching Circuit	Function	Marking	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	SPST	On-Off	A	360-1483-ND	6.38	4.42	3.91	JWM11RA1A
	SPST	On-Off	B	360-1484-ND	6.38	4.42	3.91	JWM11RA2A
	SPST	On-Off	A	360-1715-ND†	7.50	5.10	4.65	JWMW11RA1A
	SPST	On-Off	B	360-1716-ND†	7.50	5.10	4.65	JWMW11RA2A
	DPST	On-Off	A	360-1487-ND	7.99	5.67	5.17	JWM21RA1A
	DPST	On-Off	B	360-1488-ND	7.99	5.67	5.17	JWM21RA2A
	DPST	On-Off	A	360-1717-ND†	9.07	6.24	5.86	JWMW21RA1A

Fig.	Switching Circuit	Function	Marking	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	DPST	On-Off	B	360-1718-ND†	9.07	6.24	5.86	JWMW21RA2A
2	SPST	On-Off	A	360-1491-ND	7.99	5.67	5.17	JWL11RA1A
	SPST	On-Off	B	360-1492-ND	7.99	5.67	5.17	JWL11RA2A
	DPST	On-Off	A	360-1495-ND	10.42	7.39	7.03	JWL21RA1A
	DPST	On-Off	B	360-1496-ND	10.42	7.39	7.03	JWL21RA2A
—	Switch Boot Waterproof JWL Series			360-1011-ND	3.39	2.10	1.85	AT4126

† Panel Sealed

NKK® SWITCHES

CW Series Rocker Switches

Fig.	Circuit	Switch Function	Actuator Color	Terminals	Current Rating	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	SPST	On-Off	—	Solder	6A	360-1720-ND	2.34	1.41	1.23	CWSA11AANS
	SPDT	On-On	—	Solder	6A	360-1727-ND	2.79	1.71	1.49	CWT12AAS1
	DPST	On-Off	Red 125VAC	.187 QC	9A	360-1728-ND	4.26	2.74	2.44	CWSB21CACF
	DPST	On-Off	Amber 125VAC	.187 QC	9A	360-1729-ND	4.06	2.52	2.29	CWSB21DADF
	DPST	On-Off	Green 125VAC	.187 QC	9A	360-1730-ND	4.26	2.74	2.44	CWSB21FAFF
	DPST	On-Off	Red LED	.110 QC	9A	360-1731-ND	7.30	4.97	4.47	CWSC21JCACS
	DPST	On-Off	Amber LED	.110 QC	9A	360-1732-ND	7.30	4.97	4.47	CWSC21JDADS
	DPST	On-Off	Green LED	.110 QC	9A	360-1733-ND	7.30	4.97	4.47	CWSC21JFAFS
	SPST	On-Off	Red LED	.110 QC	9A	360-1734-ND	4.92	3.14	2.87	CWSC11JCACS
	SPST	On-Off	Amber LED	.110 QC	9A	360-1735-ND	4.92	3.14	2.87	CWSC11JDADS
	SPST	On-Off	Green LED	.110 QC	9A	360-1736-ND	4.92	3.14	2.87	CWSC11JFAFS
2	SPST	On-Off	—	Solder	6A	360-1721-ND	2.50	1.51	1.31	CWSA11AAN1S
	SPST	On-Off	—	.187 QC	6A	360-1723-ND	2.59	1.54	1.38	CWSB11AA1F
	DPST	On-Off	—	.187 QC	6A	360-1725-ND	3.39	2.10	1.85	CWSB21AA1F
3	SPST	On-Off	—	Solder	6A	360-1722-ND	2.50	1.51	1.31	CWSA11AAN2S
	SPST	On-Off	—	.187 QC	6A	360-1724-ND	2.59	1.54	1.38	CWSB11AA2F
	DPST	On-Off	—	.187 QC	6A	360-1726-ND	3.39	2.10	1.85	CWSB21AA2F

Neon Lamp Ratings	Red	Amber	Green
Voltage Internal	125V	125V	125V
Resistance	33KΩ	33KΩ	33KΩ
Current	1.4mA	1.4mA	0.6mA

LED Ratings	Red	Amber	Green
Forward Voltage	2.1V	2.0V	1.95V
Forward Current	20mA	20mA	20mA
Peak Current	30mA	30mA	30mA

CWS Series

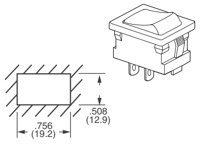

CWT Series

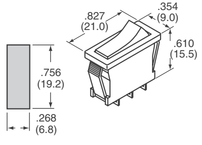

Fig. 1

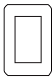

Fig. 2

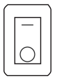

Fig. 3

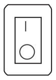

M Series Miniature Rocker Switches

FEATURES: • High insulating barriers increase isolation of circuits in multi-pole devices and provide added protection to contact points • Epoxy sealed terminals prevent entry of solder flux and other contaminants • Bias guard prevents misalignment of contacts; Interlocking of actuator block with rocker and internal guide does not allow transmission of diagonal force on rocker to reach contact mechanism **SPECIFICATIONS: Electrical Capacity:** • Power Level (Silver): 6A @ 125VAC, 3A @ 250VAC, 4A @ 30VDC for On-On circuits, 3A @ 30VDC for all others • Logic Level (Gold): 0.4VA maximum @ 28V AC/DC maximum • Contact Resistance: 10mΩ maximum (silver); 20mΩ maximum (gold) • Insulation Resistance: 1,000MΩ minimum @ 500VDC • Dielectric Strength: 1,000VAC minimum between contacts for 1 minute • Mechanical Life: 50,000 operations minimum • Electrical Life: 25,000 operations minimum for silver; 50,000 operations minimum for gold • Frame Material: Stainless steel, black actuator • Operating Temperature Range: -30°C ~ 85°C

Fig. 1

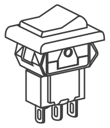

Fig. 2

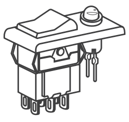

LED:
Red: 20mA @ 2.8V
Green: 30mA @ 2.1V

Fig. 3

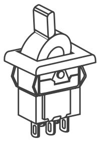

Fig. 4

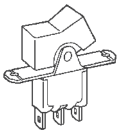

Fig. 5

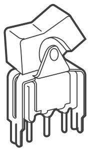

Fig. 6

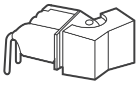

Fig. 7

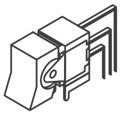

Fig.	Circuit	Actuator Description	Switching Function	Termination	Contact Material	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	SPDT	Snap-In Rocker	On-On	Solder Lug	Silver	360-2247-ND	5.33	3.55	3.18	M2012TJW01-FA-1A
	SPDT	Snap-In Rocker	On-Off-On	Solder Lug	Silver	360-2255-ND	5.95	3.97	3.55	M2013TJW01-FA-1A
	SPDT	Snap-In Rocker	On-Mom	Solder Lug	Silver	360-2257-ND	6.47	4.31	3.86	M2015TJW01-FA-1A
	SPDT	Snap-In Rocker	Mom-Off-Mom	Solder Lug	Silver	360-2259-ND	6.33	4.38	3.88	M2018TJW01-FA-1A
	SPDT	Snap-In Rocker	On-Off-Mom	Solder Lug	Silver	360-2264-ND	6.33	4.38	3.88	M2019TJW01-FA-1A
	DPDT	Snap-In Rocker	On-On	Solder Lug	Silver	360-2265-ND	6.88	4.76	4.21	M2022TJW01-FA-1A
	DPDT	Snap-In Rocker	On-Off-On	Solder Lug	Silver	360-2271-ND	7.73	5.26	4.79	M2023TJW01-FA-1A
	DPDT	Snap-In Rocker	Mom-Off-Mom	Solder Lug	Silver	360-2273-ND	8.57	6.07	5.54	M2028TJW01-FA-1A
2	DPDT	Snap-In Rocker, Red LED	On-On	Solder Lug	Silver	360-2217-ND	7.99	5.67	5.17	M2022TJW01-FA-2A-C-RO
	DPDT	Snap-In Rocker, Green LED	On-On	Solder Lug	Silver	360-2266-ND	8.52	6.04	5.51	M2022TJW01-FA-2A-F
3	SPDT	Snap-In Paddle	On-on	Solder Lug	Silver	360-2248-ND	5.33	3.55	3.18	M2012TJW01-GA-1A
	SPDT	Snap-In Paddle	On-Mom	Solder Lug	Silver	360-2215-ND	6.47	4.31	3.86	M2015TJW01-GA-1A
	SPDT	Snap-In Paddle	Mom-Off-Mom	Solder Lug	Silver	360-2260-ND	6.33	4.38	3.88	M2018TJW01-GA-1A
	DPDT	Snap-In Paddle	On-On	Solder Lug	Silver	360-2218-ND	6.88	4.76	4.21	M2022TJW01-GA-1A
	DPDT	Snap-In Paddle	On-Off-On	Solder Lug	Silver	360-2220-ND	7.73	5.26	4.79	M2023TJW01-GA-1A
	DPDT	Snap-In Paddle	On-On-On	Solder Lug	Silver	360-2272-ND	8.76	6.03	5.66	M2024TJW01-GA-1A
	DPDT	Snap-In Paddle	On-Mom	Solder Lug	Silver	360-2221-ND	8.28	5.87	5.35	M2025TJW01-GA-1A
	DPDT	Snap-In Paddle	Mom-Off-Mom	Solder Lug	Silver	360-2274-ND	8.57	6.07	5.54	M2028TJW01-GA-1A
4	SPDT	Rocker .365” Wide	On-On	Solder Lug	Silver	360-2249-ND	4.84	3.08	2.82	M2012TNW01-DA
	SPDT	Rocker .365” Wide	On-Off-On	Solder Lug	Silver	360-2256-ND	5.20	3.46	3.10	M2013TNW01-DA
	SPDT	Rocker .365” Wide	Mom-Off-Mom	Solder Lug	Silver	360-2261-ND	5.82	3.88	3.48	M2018TNW01-DA
	SPDT	Paddle .365” Wide	Mom-Off-Mom	Solder Lug	Silver	360-2262-ND	5.82	3.88	3.48	M2018TNW01-EA
	SPDT	Paddle .595” Wide	Mom-Off-Mom	Solder Lug	Silver	360-2216-ND	6.08	4.05	3.63	M2018TYW01-HA
	DPDT	Rocker .365” Wide	On-On	Solder Lug	Silver	360-2267-ND	6.40	4.26	3.82	M2022TNW01-DA
	DPDT	Rocker .595” Wide	Mom-Off-Mom	Solder Lug	Silver	360-2275-ND	8.11	5.75	5.24	M2028TYW01-JA
	4PDT	Rocker .365” Wide	On-On	Solder Lug	Silver	360-2276-ND	11.66	8.45	7.52	M2042TNW01-DA
5	SPDT	Rocker .365” Wide	On-On	PC Bracket	Gold	360-2250-ND	5.38	3.59	3.21	M2012TXG13-DA-RO
	SPDT	Paddle .365” Wide	On-On	PC Bracket	Gold	360-2213-ND	5.38	3.59	3.21	M2012TXG13-EA-RO
	SPDT	Rocker .365” Wide	On-On	PC Bracket	Silver	360-2252-ND	5.09	3.24	2.96	M2012TXW13-DA-RO
	SPDT	Rocker .365” Wide	On-Off-On	PC Bracket	Gold	360-2214-ND	6.01	4.00	3.59	M2013TXG13-DA-RO
	SPDT	Rocker .365” Wide	On-Mom	PC Bracket	Gold	360-2258-ND	6.28	4.35	3.85	M2015TXG13-DA-RO
	SPDT	Rocker .595” Wide	Mom-Off-Mom	PC Bracket	Silver	360-2263-ND	6.25	4.33	3.83	M2018TZW13-JA-RO
	DPDT	Rocker .365” Wide	On-On	PC Bracket	Gold	360-2219-ND	7.85	5.34	4.87	M2022TXG13-DA-RO
6	SPDT	Rocker .365” Wide	On-On	Right Angle PC	Gold	360-2251-ND	5.67	3.78	3.38	M2012TXG30-DA-RO
	SPDT	Rocker .365” Wide	On-On	Right Angle PC	Silver	360-2253-ND	5.29	3.43	3.14	M2012TXW30-DA-RO
	DPDT	Rocker .365” Wide	On-On	Right Angle PC	Silver	360-2269-ND	7.28	4.95	4.46	M2022TXW30-DA-RO
7	SPDT	Rocker .365” Wide	On-On	Vertical PC	Silver	360-2254-ND	5.75	3.83	3.43	M2012TXW41-DA-RO
	DPDT	Rocker .365” Wide	On-On	Vertical PC	Gold	360-2268-ND	9.10	6.26	5.88	M2022TXG41-DA-RO
	DPDT	Rocker .365” Wide	On-On	Vertical PC	Silver	360-2270-ND	8.06	5.72	5.21	M2022TXW41-DA-RO

C&K Rocker Switches

Contact Materials:

B: Contacts and Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA maximum @ 20VAC or DC maximum
Q: Contacts: Coin silver, silver plated. Center Contact and All Terminals: Copper alloy, silver plated. Rating: 5A @ 120VAC or 28VDC; 2A @ 250VAC **C Series:** 15A @ 125VAC or 10A @ 250VAC **DM Series:** 10A @ 125VAC or 5A @ 250VAC **DM2X/DM14/DM24 Series:** 3A @ 125VAC or 2A @ 250VAC **DF Series:** 16A @ 125VAC or 250VAC **D10X/D20X Series:** 4A @ 125VAC or 2A @ 250VAC **D50X/D60X Series:** 10A @ 125VAC or 5A @ 250VAC **E1XX/E2XX Series:** 7.5A @ 125VAC or 28VDC, 3A @ 250VAC **7000 Series:** 5A @ 120VAC or 28VDC **9201 Series:** 6A @ 120VAC or 28VDC, 3A @ 250VAC **9221 Series:** 10A @ 125VAC or 28VDC, 5A@ 250VAC

Termination Options

05

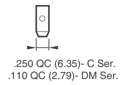

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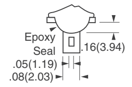

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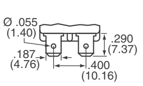

V3

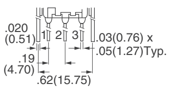

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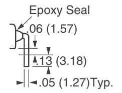

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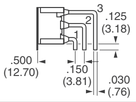

Fig. 1

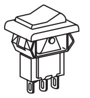

Fig. 2

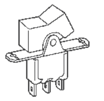

Fig. 3

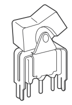

Fig. 4

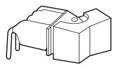

Fig. 5

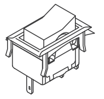

Fig. 6

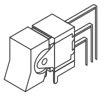

Fig. 7

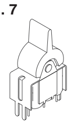

Fig. 8

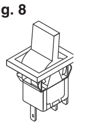

Fig. 9

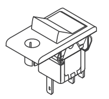

Fig. 10

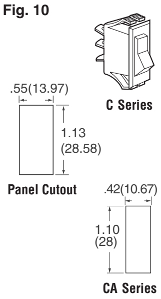

Fig. 11

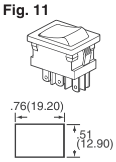

Fig. 12

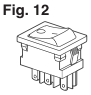

Panel Cutout
SP Models

Fig. 13

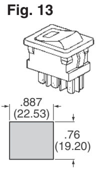

LED
Illuminated

D Series

Panel Cutout
DP Models

Fig. 14

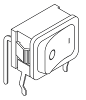

PC Mount

Fig. 15

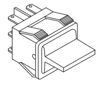

Paddle Type

Fig. 16

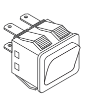

Fig. 17

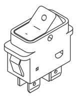

Fig. 18

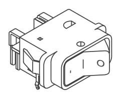

Fig.	Circuit	Actuator Description	Switching Function	Options (see diag.) Termi-nation	Options (see diag.) Contact Material	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	C&K Components Part No.
						Miniature Rocker Switches				
1	SPDT	Rocker/Frame	On-On	Z	Q	CKN2002-ND	7.71	6.17	4.89	U11J51ZQE22
		Rocker/Frame	On-On	Z	Q	CKN2010-ND	8.93	7.15	5.66	7101J16ZQE22
		Rocker/Frame	On-On	Z	Q	CKN2015-ND	7.71	6.17	4.89	7101J51ZQE22
		Rocker/Frame	On-Off-On	Z	Q	CKN2017-ND	8.27	6.62	5.24	7103J51ZQE22
		Rocker/Frame	Mom-Off-Mom	Z	Q	CKN2022-ND	8.40	6.72	5.32	7105J51ZQE22
		Rocker/Frame	On-Off-Mom	Z	Q	CKN2024-ND	8.40	6.72	5.32	7107J51ZQE22
		Rocker/Frame	On-Mom	Z	Q	CKN2027-ND	8.40	6.72	5.32	7108J51ZQE22
	DPDT	Rocker/Frame	On-On	Z	Q	CKN2029-ND	11.52	9.22	7.30	7201J16ZQE22
		Rocker/Frame	On-On	Z	Q	CKN2033-ND	10.30	8.24	6.53	7201J51ZQE22
		Rocker/Frame	On-Off-On	Z	Q	CKN2037-ND	11.27	9.02	7.14	7203J51ZQE22
		Rocker/Frame	Mom-Off-Mom	Z	Q	CKN2040-ND	11.27	9.02	7.14	7205J51ZQE22
2	SPDT	Black	On-On	Z	Q	CKN2007-ND	6.71	5.37	4.26	7101J1ZQE2
		Black	On-Off-On	Z	Q	CKN2008-ND	7.27	5.82	4.61	7103J1ZQE2
		Black	Mom-Off-Mom	Z	Q	CKN2018-ND	7.40	5.92	4.69	7105J1ZQE2
		Lever	Mom-Off-Mom	Z	Q	CKN2021-ND	9.61	7.69	6.09	7105J4ZQE2
	DPDT	Black	On-On	Z	Q	CKN2000-ND	9.30	7.44	5.89	7201J1ZQE2
		Black	On-Off-On	Z	Q	CKN2036-ND	11.27	9.02	7.14	7203J3ZQE2
		Black	Mom-Off-Mom	Z	Q	CKN2039-ND	11.27	9.02	7.14	7205J3ZQE2
	4PDT	Black	On-On	Z	Q	CKN2001-ND	14.85	12.83	10.81	7401J1ZQE2
3	SPDT	Black	On-Off-On	V3	B	CKN2003-ND	8.65	6.92	5.48	7103J1V3BE2
		Black	On-On	V3	B	CKN2012-ND	8.09	6.47	5.13	7101J1V3BE2
		Black	On-On	V3	Q	CKN2013-ND	8.09	6.47	5.13	7101J1V3QE2
		Black	Mom-Off-Mom	V3	Q	CKN2020-ND	9.77	7.82	6.19	7105J3V3QE2
		Black	On-Mom	V3	B	CKN2026-ND	8.77	7.02	5.56	7108J1V3BE2
		Black	On-On	V3	B	CKN2072-ND	8.68	6.95	5.50	E101J1V3BE2
		Black	Mom-Off-Mom	V3	B	CKN2073-ND	9.83	7.87	6.23	E105J1V3BE2
		Black	On-On	V3	B	CKN2078-ND	7.34	5.87	4.65	T101J1V3BE2
	DPDT	Black	On-On	V3	B	CKN2032-ND	11.02	8.82	6.98	7201J1V3BE2
		Black	On-On	V3	B	CKN2076-ND	12.11	9.69	7.68	E201J1V3BE2
4	SPDT	Black	On-On	A	B	CKN2004-ND	7.46	5.97	4.73	7101J1ABE2
		Black	On-On	A	Q	CKN2005-ND	7.46	5.97	4.73	7101J1AQE2
		Black	On-On	A	B	CKN2069-ND	7.55	6.05	4.79	E101J1ABE2
		Black	On-On	A	Q	CKN2070-ND	7.55	6.05	4.79	E101J1AQE2
		Black	On-On	A	B	CKN2077-ND	7.99	6.40	5.06	ET01J6ABE2
	DPDT	Black	On-On	A	Q	CKN2006-ND	10.67	8.54	6.77	7201J1AQE2
		Black	On-On	A	B	CKN2074-ND	11.14	8.92	7.06	E201J1ABE2
		Black	On-On	A	B	CKN2079-ND	10.99	8.79	6.96	T201J1ABE2
5	SPDT	Rocker/Frame	On-On	Z	Q	CKN2009-ND	8.93	7.15	5.66	7101J11ZQE22
	3PDT	Rocker/Frame	On-On	Z	Q	CKN2044-ND	12.61	10.90	9.18	7301J11ZQE22
	4PDT	Rocker/Frame	On-On	Z	Q	CKN2045-ND	16.48	14.24	11.99	7401J11ZQE22
6	SPDT	Black	On-On	AV2	Q	CKN2011-ND	7.80	6.25	4.95	7101J1AV2QE2
		Black	On-On	AV2	B	CKN2071-ND	7.90	6.32	5.01	E101J1AV2BE2
	DPDT	Black	On-On	AV2	B	CKN2030-ND	11.33	9.07	7.18	7201J1AV2BE2
		Black	On-On	AV2	Q	CKN2031-ND	11.33	9.07	7.18	7201J1AV2QE2
		Black	On-On	AV2	Q	CKN2075-ND	11.80	9.44	7.48	E201J1AV2QE2
7	SPDT	Lever	On-On	V3	B	CKN2014-ND	9.08	7.27	5.76	7101J2V3BE2
8	SPDT	Lever/Frame	On-On	Z	Q	CKN2016-ND	7.71	6.17	4.89	7101J61ZQE22
		Lever/Frame	Mom-Off-Mom	Z	Q	CKN2023-ND	8.40	6.72	5.32	7105J61ZQE22
		Lever/Frame	On-Off-Mom	Z	Q	CKN2025-ND	8.40	6.72	5.32	7107J61ZQE22
		Lever/Frame	On-Mom	Z	Q	CKN2028-ND	8.40	6.72	5.32	7108J61ZQE22
	DPDT	Lever/Frame	On-On	Z	Q	CKN2035-ND	10.30	8.24	6.53	7201J61ZQE22
		Lever/Frame	On-Off-On	Z	Q	CKN2038-ND	11.27	9.02	7.14	7203J61ZQE22
		Lever/Frame	Mom-Off-Mom	Z	Q	CKN2041-ND	11.27	9.02	7.14	7205J61ZQE22
		Lever/Frame	On-On-On	Z	Q	CKN2043-ND	11.99	9.59	7.60	7211J61ZQE22
—	SPDT	Lever	Mom-Off-Mom	Z	Q	CKN2019-ND	8.40	6.72	5.32	7105J2ZQE2
9	DPDT	Rocker/LED	On-On	Z	Q	CKN2034-ND	10.30	8.24	6.53	7201J52ZQE22
						Power Rocker Switches				
2	DPDT	Black	On-On	Z4	Q	CKN2047-ND	28.54	22.84	18.08	9221J1Z4QD2
6	DPDT	Black	On-On	AV2	Q	CKN2046-ND	22.92	18.34	14.52	9201J1AV2QE2
10	SPST	O -	On-Off	05	Q	CKN2049-ND‡	4.56	3.65	2.89	C122J12S205PQF
	SPST	O - Illum./Green	On-Off	05	Q	CKN2052-ND	3.37	2.70	2.14	CA04J167207PQ

† Panel Cutout is 1.00" x 1.125" (25.40mm x 28.58mm) * Panel Cutout is .756" x .887" (19.20mm x 22.53mm) ‡ White Marking

(Continued)

Fig.	Circuit	Actuator Description	Switching Function	Options (see diag.) Termi-nation	Options (see diag.) Contact Material	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	C&K Components Part No.
10	SPDT	Black	On-On	05	Q	CKC2008-ND	4.74	2.73	2.30	C121J12S205QF
		Red	On-On	05	Q	CKC2025-ND	4.65	3.72	2.95	C121J13S205QF
		Black	On-On	05	Q	CKC1238-ND	2.30	1.33	1.12	CA01J12207Q
		Illum./Red	On-Off	05	Q	CKC1242-ND	3.23	1.86	1.57	CA04J137207Q
		Illum./Yellow	On-Off	05	Q	CKC1244-ND	3.24	1.87	1.58	CA04J157207Q
		Black	On-On	05	Q	CKN2048-ND	3.09	2.48	1.96	C121J12S205QA
	DPST	O -	On-Off	05	Q	CKN2051-ND‡†	5.68	4.55	3.60	C222J12S205PQF
	DPDT	Black	On-On	05	Q	CKC2026-ND†	5.40	4.32	3.42	C221J12S205QF
11	SPST	O -	On-Off	05	Q	CKN2055-ND‡	4.59	3.68	2.91	D102J12S205PQF
		O -	On-Off	05	Q	CKN1819-ND‡	2.45	1.96	1.56	D102J12S215PQA
		On-Off	On-Off	05	Q	CKN1820-ND‡	2.45	1.96	1.56	D102J12S217DQA
		O I	On-Off	A	Q	CKN2058-ND‡	4.74	3.80	3.01	D502J12S2AHQF
		O I	On-Off	05	Q	CKN1821-ND‡	2.65	2.13	1.68	D502J12S215HQA
	SPDT	O -	On-Off	05	Q	CKC2011-ND‡	3.67	2.94	2.33	D502J12S215PQF
		Black	On-On	05	Q	CKN2053-ND	3.43	2.75	2.17	D101J12S205QA
		O I	On-On	05	Q	CKN2054-ND‡	3.83	3.06	2.43	D101J12S215HQF
		Black	Mom-Off-Mom	05	Q	CKC2022-ND	7.07	5.66	4.48	D105J12S205QA
		O -	On-On	05	Q	CKN2056-ND‡	3.98	3.19	2.52	D501J12S215PQF
		Black	On-On	05	Q	CKN2057-ND	2.51	2.01	1.59	D501J12S215QA
		Black	On-Off-On	05	Q	CKC2012-ND	4.19	3.36	2.66	D503J12S205QA
		Black	On-Mom	05	Q	CKC2013-ND	4.53	3.63	2.87	D508J12S205QA
	DPST	O -	On-Off	05	Q	CKN2060-ND*‡	6.37	5.10	4.04	D602J12S205PQF
		O -	On-Off	05	Q	CKC2019-ND‡	5.43	4.35	3.44	DM62J12S205PQ
		Black	On-Off	05	Q	CKN2067-ND	5.00	4.00	3.17	DM62J12S205Q
12	DPDT	O -	On-On	05	Q	CKN2059-ND*‡	5.60	4.49	3.55	D601J12S215PQF
		O -	On-On	05	Q	CKC2018-ND‡	5.93	4.75	3.76	DM61J12S205PQ
		Black	On-On	05	Q	CKC2009-ND	4.03	3.48	2.93	DM61J12S205Q
13	SPST	Illum./Red	On-Off	05	Q	CKN2064-ND	5.00	4.00	3.17	DM14J72S205Q3
		Illum./Red	On-Off	05	Q	CKC2017-ND	5.34	4.27	3.39	DM54J72S205Q3
	DPST	Illum./Amber	On-Off	05	Q	CKN2065-ND	6.09	4.88	3.86	DM24J72S205Q4
		Illum./Green	On-Off	05	Q	CKN2066-ND	6.09	4.87	3.86	DM24J72S205Q6
		Illum./Green	On-Off	05	Q	CKN2068-ND	6.43	5.15	4.08	DM64J72S205Q6
		Illum./Red	On-Off	05	Q	CKC2020-ND	6.02	4.82	3.82	DM64J72S205Q3
—	DPST	O -	On-Off	05	Q	CKC2016-ND‡	6.77	5.42	4.30	DF62J12S215PQF
14	SPDT	O -	On-On	A	Q	CKC2010-ND‡	5.05	4.04	3.20	D501J12S2APQF
		O I	On-On	A	Q	CKC2023-ND‡	5.05	4.04	3.20	D501J12S2AHQF
15	DPDT	Black	On-On	05	Q	CKC2024-ND	3.98	3.19	2.52	D201J52S215QA
16	DPDT	Black	On-Mom	05	Q	CKC2015-ND*	6.67	5.34	4.23	D608J12S205QA
		O -	Off-On	05	Q	CKC2014-ND*‡	5.30	4.24	3.36	D602J12S215PQF
17	DPST	O I	On-Off	05	Q	CKN2061-ND‡	6.77	5.42	4.30	DF62J12S215HQF
18	DPST	O I	On-Off	—	Q	CKN2062-ND‡	6.15	4.92	3.90	DF62J12S2AHQA
		O -	On-Off	—	Q	CKN2063-ND‡	7.24	5.80	4.59	DF62J12S2APQF

† Panel Cutout is 1.00" x 1.125" (25.40mm x 28.58mm) * Panel Cutout is .756" x .887" (19.20mm x 22.53mm) ‡ White Marking

Rocker Switches

Specifications: • Contact Rating: 16 Amps at 125 VAC, 10 Amps at 250 VAC (CR Series: 10 Amps at 125VAC, 6 Amps at 250VAC) • Electrical Life: 10,000 cycles at full load • Operating Temperature: 65°C **Materials:** • Housing and Actuator: 6/6 nylon matte finish • Terminals: Silver plated, copper alloy

Fig. 1 – DA Series

Terminal:
.187QC

Applications:
- Small Appliances
- Computers and Peripherals
- Medical Instrumentation

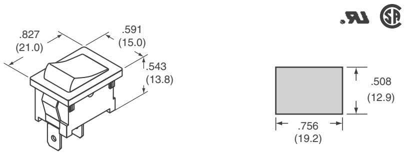

Fig. 2 – CR Series

Terminal:
.187QC

Applications:
- Small and Large Appliances
- Computers and Peripherals
- Office Equipment

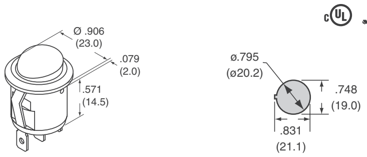

Fig. 3 – CL Series

Terminal:
.250QC

Applications:
- Small Appliances
- Floor Care Products
- Power Outlet Strips

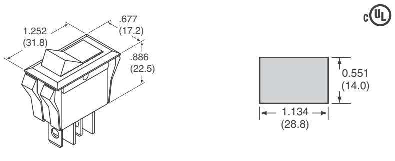

Fig. 4 – CM Series

Terminal:
.250QC

Applications:
- Small Appliances
- Computers and Peripherals
- Power Supplies

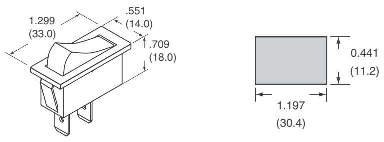

Actuator Style

A

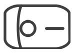

B

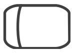

C

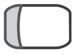

D

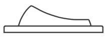

Circuit	Switch Function	Actuator Color	Body Color	Actuator Style	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	C&K Components Part No.
Fig. 1 — DA Series – 16 Amp Miniature Rocker Switches									
SPST	On/Off	White	Black	A	401-1285-ND	1.29	1.04	.82	DA102J11S215PQF
SPST	On/Off	White	Black	A/C	401-1289-ND	1.47	1.18	.94	DA102J21S215PQF
SPST	On/Off	Red	Black	A/C	401-1290-ND	1.10	.98	.86	DA102J23S215PQF
Fig. 2 — CR Series – 10 Amp Round Rocker Switches									
SPST	On/Off	Green Illum. 125V	Black	B	401-1306-ND	1.95	1.56	1.24	CR102J3GS215QF7
SPST	On/Off	Red Illum. 250V	Black	B	401-1310-ND	2.16	1.73	1.37	CR102J3RS215QF8

Circuit	Switch Function	Actuator Color	Body Color	Actuator Style	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	C&K Components Part No.
Fig. 3 — CL Series – 16 Amp Power Rocker Switches									
SPST	On/Off	White	Black	A	401-1320-ND	1.37	1.22	1.07	CG102J11S205PQF
SPST	On/Off	Green Illum. 125V	Black	B	401-1326-ND	2.04	1.64	1.30	CG102J3GS205QF7
Fig. 4 — CM Series – 16 Amp Power Rocker Switches									
SPDT	On/On	White	White	D/B	401-1341-ND	1.37	1.22	1.07	CM101J11S105QA
SPST	On/Off	White	Black	D/A	401-1352-ND	1.22	1.08	.95	CM102J11S205PQA

Honeywell
Sensing and Control

Rocker Switches

FEATURES:
MR93 Series: • Expected electrical life 50,000 cycles • Expected mechanical life 100,000 cycles • UL recognized and CSA certified • Operating Temperature: 0°C ~ 85°C (32°F ~ 185°F) • Quick Connect 0.187 in. x 0.032 in. (4.75mm x 0.81mm)

MRS93 Series: • Expected electrical life 50,000 cycles momentary; 100,000 cycles maintained • Expected mechanical life 100,000 cycles • UL recognized and CSA certified • Operating Temperature: 0°C ~ 85°C (32°F ~ 185°F) • Quick Connect 0.187 in. x 0.032 in. (4.75mm x 0.81mm)

FRx91 Series: • Expected electrical life 50,000 cycles momentary; 100,000 cycles maintained • Expected mechanical life 250,000 cycles • Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) • Quick Connect 0.250 in. x 0.032 in. (6.35mm x 0.81mm)

SRx91 Series: • Expected electrical life 50,000 cycles momentary; 100,000 cycles maintained • Expected mechanical life 150,000 cycles • Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) • Quick Connect 0.250 in. x 0.032 in. (6.35mm x 0.81mm)

Fig.	Circuit	Actuator Description	Dimensions – Inches (mm) W x L x H	Contact Ratings	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
MR93 Series — Miniature Rocker Switches									
1	SPST	Black; Non-Illuminated	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	8A, 250VAC	480-2107-ND	3.44	2.29	1.87	MR93-12BBN
	DPST	Black; Non-Illuminated	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	8A, 250VAC	480-2108-ND	4.11	2.84	2.31	MR93-22BBN
	SPST	Red Illuminated; 12V LED	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	12A, 12V	480-2109-ND	5.30	3.83	3.14	MR93-122B3
	SPST	Green Illuminated; 12V LED	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	12A, 12V	480-2110-ND	5.30	3.83	3.14	MR93-124B3
	DPST	Red Illuminated; 12V LED	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	12A, 12V	480-2111-ND	5.88	4.30	3.51	MR93-222B3
	DPST	Green Illuminated; 12V LED	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	12A, 12V	480-2112-ND	5.88	4.30	3.51	MR93-224B3
	SPST	Red Illuminated; 125V NEON	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	12A, 125VAC	480-2113-ND	3.95	2.73	2.23	MR93-122BJ
	SPST	Amber Illuminated; 250V NEON	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	8A, 250VAC	480-2114-ND	3.95	2.73	2.23	MR93-121BK
	DPST	Amber Illuminated; 24V LED	.590 x .825 x .71 (14.99 x 20.90 x 18.03)	12A, 24V	480-2115-ND	5.88	4.30	3.51	MR93-221B4
MRS93 Series — Subminiature Rocker Switches									
2	SPST	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	10A, 125VAC	480-2116-ND	2.65	1.74	1.41	MRS93-12BB
	SPST-NO	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	12A, 125VAC	480-2117-ND	3.04	2.06	1.62	MRS93-16BB
	SPST-NC	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	12A, 125VAC	480-2118-ND	3.04	2.06	1.62	MRS93-14BB
	SPDT	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	10A, 125VAC	480-2119-ND	3.04	2.06	1.62	MRS93-13BB
	SPDT	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	12A, 125VAC	480-2120-ND	3.47	2.31	1.89	MRS93-18BB
	SPDT	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	8A, 125-250VAC	480-2121-ND	3.98	2.75	2.24	MRS93-11BB
	SPDT	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	8A, 125-250VAC	480-2122-ND	3.98	2.75	2.24	MRS93-15BB
	SPDT	Black; Non-Illuminated	.590 x .825 x .58 (14.99 x 20.90 x 14.73)	8A, 125-250VAC	480-2123-ND	3.98	2.75	2.24	MRS93-17BB
FRN91 Series — Sealed Rocker Switches									
3	SPST	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2124-ND	7.85	5.89	4.91	FRN91-12BB
	DPST	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2125-ND	10.09	7.68	6.59	FRN91-22BB
	SPST-NO	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2126-ND	8.57	6.43	5.36	FRN91-16BB
	DPST-NO	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2127-ND	11.22	8.54	7.32	FRN91-26BB
	SPST-NC	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2128-ND	8.76	6.58	5.48	FRN91-14BB
	DPST-NC	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2129-ND	11.22	8.54	7.32	FRN91-24BB
	SPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2130-ND	8.76	6.58	5.48	FRN91-13BB
	DPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2131-ND	11.22	8.54	7.32	FRN91-23BB
	SPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2132-ND	8.76	6.58	5.48	FRN91-18BB
	DPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2133-ND	11.59	8.91	7.47	FRN91-28BB
	SPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2134-ND	8.76	6.58	5.48	FRN91-11BB
	DPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2135-ND	11.28	8.68	7.28	FRN91-21BB
	SPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2136-ND	8.76	6.58	5.48	FRN91-15BB
	DPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2137-ND	11.59	8.91	7.47	FRN91-25BB
	SPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2138-ND	8.76	6.58	5.48	FRN91-17BB
	DPDT	Black; Non-Illuminated	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2139-ND	11.59	8.91	7.47	FRN91-27BB
FRL91 Series — Sealed Rocker Switches									
4	DPST	Green/Amber Illuminated; 12V LED	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2140-ND	16.73	12.93	10.84	FRL91-22CGA3-BB79
	DPDT	Green/Amber Illuminated; 12V LED	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2141-ND	16.73	12.93	10.84	FRL91-23CGA3-BB79
	DPDT	Green/Green Illuminated; 12V LED	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2142-ND	16.73	12.93	10.84	FRL91-21CGG3-BB77
	DPDT	Green/Green Illuminated; 12V LED	1.02 x 1.97 x 1.45 (25.91 x 50.04 x 36.83)	20A, 12V	480-2143-ND	16.73	12.93	10.84	FRL91-27CGG3-BB77
SRN91 Series — Sealed Rocker Switches									
5	SPST	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2144-ND	9.09	6.82	5.69	SRN91-12BB
	DPST	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2145-ND	9.84	7.49	6.42	SRN91-22BB
	SPST-NO	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2146-ND	9.09	6.82	5.69	SRN91-16BB
	DPST-NO	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2147-ND	9.84	7.49	6.42	SRN91-26BB
	SPST-NC	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2148-ND	9.09	6.82	5.69	SRN91-14BB
	DPST-NC	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2149-ND	9.84	7.49	6.42	SRN91-24BB
	SPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2150-ND	9.09	6.82	5.69	SRN91-13BB
	DPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2151-ND	9.84	7.49	6.42	SRN91-23BB
	SPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2152-ND	9.81	7.16	6.14	SRN91-18BB
	DPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2153-ND	12.26	9.43	7.91	SRN91-28BB
	SPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2154-ND	9.09	6.82	5.69	SRN91-11BB
	DPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2155-ND	12.26	9.43	7.91	SRN91-21BB
	SPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2156-ND	9.09	6.82	5.69	SRN91-15BB
	DPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2157-ND	12.26	9.43	7.91	SRN91-25BB
	SPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2158-ND	9.09	6.82	5.69	SRN91-17BB
	DPDT	Black; Non-Illuminated	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2159-ND	12.26	9.43	7.91	SRN91-27BB
SRL91 Series — Sealed Rocker Switches									
6	DPST	Red Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2160-ND	13.49	10.38	8.70	SRL91-22ARN3-BB9N
7	DPDT	Red/Red Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2161-ND	17.39	13.44	11.27	SRL91-23URR3-BB99
	DPDT	Red/Red Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2162-ND	17.39	13.44	11.27	SRL91-21URR3-BB99
	DPDT	Red/Red Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2163-ND	17.39	13.44	11.27	SRL91-27URR3-BB99
	DPST	Green/Amber Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2164-ND	17.39	13.44	11.27	SRL91-22UGA3-BB99
	DPDT	Green/Green Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2165-ND	17.39	13.44	11.27	SRL91-23UGG3-BB99
	DPDT	Green/Green Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2166-ND	17.39	13.44	11.27	SRL91-21UGG3-BB99
	DPST	Green/Green Illuminated; 12V LED	.83 x 1.45 x 1.516 (21.08 x 36.83 x 38.51)	10A, 250VAC	480-2167-ND	17.39	13.44	11.27	SRL91-22UGG3-BB99
Accessories									
Rocker Boot					480-2168-ND	5.37	3.88	3.19	SR-01
Connector Housing for SRx91 Series					480-2169-ND	2.62	1.72	1.40	HRSR-01
Connector Housing for FRx91 Series					480-2170-ND	2.62	1.72	1.40	FR-01

Fig. 1
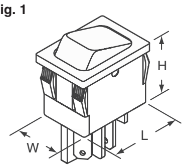

Fig. 2
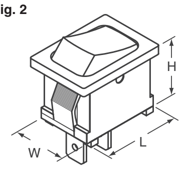

Fig. 3
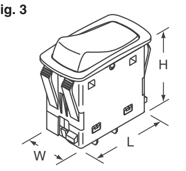

Fig. 4
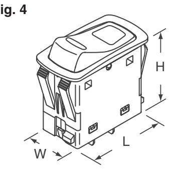

Fig. 5
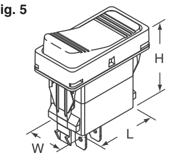

Fig. 6
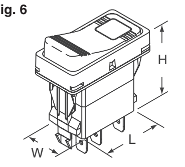

Fig. 7
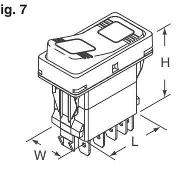

Miniature Toggle Switches

Features: Molded-in terminals are plated for soldering. There is positive return on momentary versions. All switches come with a lock washer, a keying washer and two hex nuts.
Specifications: • UL Recognized • Temperature Range: -65°C ~ 71°C (-85°F ~ 160°F)

Fig.	Circuit	Function	Terminal Type	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
1	SPDT	On-Off-On	Solder	480-2269-ND	20.13	16.41	14.10	11TW1-1
	SPDT	On-None-On	Solder	480-2270-ND	20.13	16.41	14.10	11TW1-3
	SPDT	Mom-Off-On	Solder	480-2271-ND	29.95	24.42	20.97	11TW1-5
	SPDT	Mom-Off-Mom	Solder	480-2272-ND	24.95	20.34	17.47	11TW1-7
2	DPDT	On-Off-On	Solder	480-2273-ND	21.09	17.19	14.77	12TW1-1
	DPDT	On-None-On	Solder	480-2274-ND	21.09	17.19	14.77	12TW1-3
	DPDT	Mom-Off-On	Solder	480-2275-ND	21.91	17.86	15.34	12TW1-5
	DPDT	Mom-Off-Mom	Solder	480-2276-ND	22.78	18.57	15.95	12TW1-7
3	SPST	Off-None-On	Solder	480-2277-ND	20.79	16.95	14.56	1TW1-2
	SPDT	On-None-On	Solder	480-2278-ND	16.97	13.74	11.52	1TW1-3
	SPDT	Mom-None-On	Solder	480-2279-ND	20.53	16.14	13.94	1TW1-8
4	DPST	Off-None-On	Solder	480-2280-ND	23.11	18.84	16.18	2TW1-2
	DPDT	On-None-On	Solder	480-2281-ND	28.45	23.19	19.92	2TW1-3
	DPDT	Mom-None-On	Solder	480-2282-ND	28.56	23.28	20.00	2TW1-8

Dimensions in Inches

Fig. 1
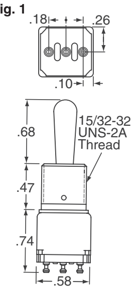

Fig. 2
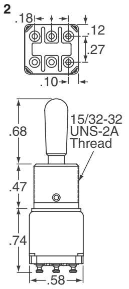

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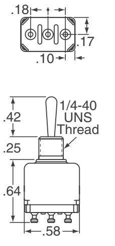

Fig. 4
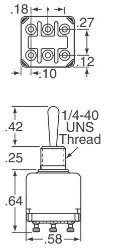

Honeywell
Sensing and Control

Toggle Switches

NT Series — Sealed Toggle Switches*:* Meet severe environment application needs for a rugged, cost-effective toggle switch. Quality construction features include a molded-in elastomer seal between the toggle lever and bushing, and between the cover and case.

NT Series — Flat Base Sealed Toggle Switches*:* Meet severe environment application needs for rugged, cost-effective manual switches. These flat base style products are identical to the stepped base style in construction and features.

NT Series Specifications: • UL Recognized, File E12252, Vol. 1, Section 44 • CSA certified • CE approved • Temperature Range: -40°C ~ 71°C (-40°F ~ 160°F) • High Reliability

TL Series — Sealed Toggle Switches*:* Have high strength, temperature resistant, non-tracking case material and silver cadmium oxide contacts.

TL Series Specifications: • UL recognized • CSA certified • CE approved • Temperature Range: -65°C ~ 71°C (-85°F ~ 160°F) • High Reliability

TS Series — Sealed Toggle Switches*:* MICRO SWITCH™ TS Series switches have 2 or 3 position, momentary and maintained action switches with 1 and 2 pole circuitry. Switches have solder, screw or quick-connect terminations.

TS Series Specifications: • UL recognized • CSA certified • CE approved

Dim. in Inches

Fig. 1

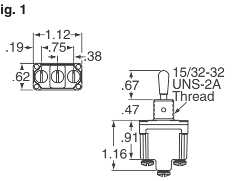

Fig. 2

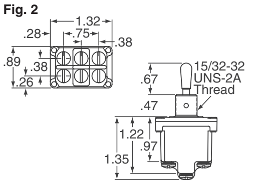

Fig. 3

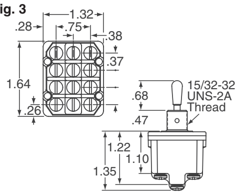

Fig. 4

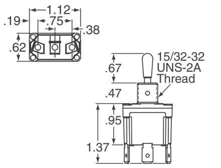

Fig. 5

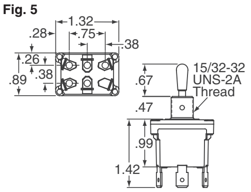

Fig. 6

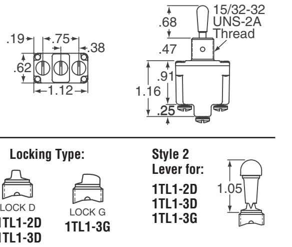

Fig. 7

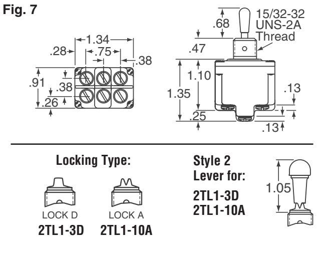

Fig. 8

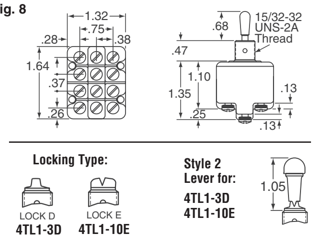

Fig. 9 ***NEW!***

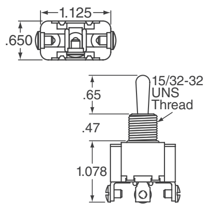

Fig. 10 ***NEW!***

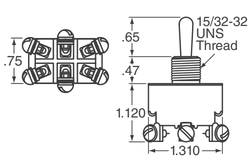

Fig. 11 ***NEW!***

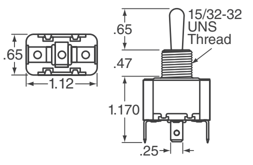

Fig. 12 ***NEW!***

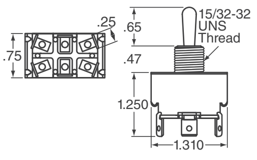

Fig. 13 ***NEW!***

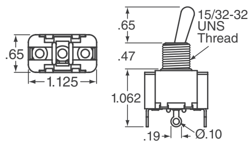

Fig. 14 ***NEW!***

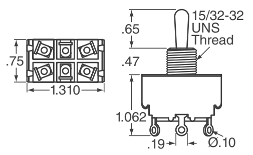

Fig.	Circuit	Function	Terminal Type	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
NT Series — Sealed Toggle Switches								
1	SPST	Off-None-On	Screw	480-2171-ND	16.72	12.93	10.84	1NT1-2
	SPDT	On-None-On	Screw	480-2172-ND	16.72	12.93	10.84	1NT1-3
	SPST	Mom-None-Off	Screw	480-2173-ND	16.72	12.93	10.84	1NT1-6
	SPDT	Mom-Off-Mom	Screw	480-2174-ND	16.72	12.93	10.84	1NT1-7
	SPDT	Mom-None-On	Screw	480-2175-ND	16.72	12.93	10.84	1NT1-8
2	DPDT	On-Off-On	Screw	480-2176-ND	21.29	17.35	14.91	2NT1-1
	DPST	Off-None-On	Screw	480-2177-ND	21.29	17.35	14.91	2NT1-2
	DPDT	On-None-On	Screw	480-2178-ND	21.29	17.35	14.91	2NT1-3
	DPDT	Mom-Off-On	Screw	480-2179-ND	21.29	17.35	14.91	2NT1-5
	DPDT	Mom-On-On	Screw	480-2180-ND	24.23	19.75	16.97	2NT1-50
	DPDT	Mom-Off-Mom	Screw	480-2181-ND	21.29	17.35	14.91	2NT1-7
3	4PDT	On-Off-On	Screw	480-2189-ND	33.69	27.65	24.19	4NT1-1
	4PDT	Mom-Off-Mom	Screw	480-2190-ND	35.31	28.98	25.36	4NT1-7
NT Series — Flat Base Sealed Toggle Switches								
4	SPDT	On-Off-On	Quick Connect	480-2182-ND	15.07	11.86	9.94	31NT91-1
	SPST	Off-None-On	Quick Connect	480-2183-ND	15.07	11.86	9.94	31NT91-2
	SPDT	On-None-On	Quick Connect	480-2184-ND	15.07	11.86	9.94	31NT91-3
	SPDT	Mom-Off-Mom	Quick Connect	480-2185-ND	15.07	11.86	9.94	31NT91-7
5	DPDT	On-Off-On	Quick Connect	480-2186-ND	19.95	15.68	13.54	32NT91-1
	DPDT	Mom-Off-Mom	Quick Connect	480-2187-ND	19.95	15.68	13.54	32NT91-7
	DPDT	Mom-On-Mom	Quick Connect	480-2188-ND	19.95	15.68	13.54	32NT91-70
TL Series — Sealed Toggle Switches								
6	SPDT	On-Off-On	Screw	480-2191-ND	21.29	17.35	14.91	1TL1-1
	SPST	Off-None-On	Screw	480-2192-ND	21.29	17.35	14.91	1TL1-2
	SPDT	On-None-On	Screw	480-2194-ND	21.29	17.35	14.91	1TL1-3
	SPDT	Mom-Off-On	Screw	480-2197-ND	21.29	17.35	14.91	1TL1-5
	SPST	Mom-None-Off	Screw	480-2198-ND	21.29	17.35	14.91	1TL1-6
	SPDT	Mom-Off-Mom	Screw	480-2199-ND	21.29	17.35	14.91	1TL1-7
	SPDT	Mom-None-On	Screw	480-2200-ND	21.29	17.35	14.91	1TL1-8
7	DPDT	On-Off-On	Screw	480-2201-ND	29.03	23.66	20.32	2TL1-1
	DPST	Off-None-On	Screw	480-2204-ND	28.45	23.19	19.92	2TL1-2
	DPDT	On-None-On	Screw	480-2205-ND	28.45	23.19	19.92	2TL1-3
	DPDT	Mom-Off-On	Screw	480-2207-ND	29.03	23.66	20.32	2TL1-5
	DPST	Mom-None-Off	Screw	480-2209-ND	29.03	23.66	20.32	2TL1-6
	DPDT	Mom-Off-Mom	Screw	480-2210-ND	28.45	23.19	19.92	2TL1-7
	DPDT	Mom-None-On	Screw	480-2212-ND	28.45	23.19	19.92	2TL1-8
	DPDT	On-On-On	Screw	480-2202-ND	31.91	26.19	22.92	2TL1-10
	DPDT	Mom-On-On	Screw	480-2208-ND	32.55	26.71	23.38	2TL1-50
	DPDT	Mom-On-Mom	Screw	480-2211-ND	32.55	26.71	23.38	2TL1-70
8	4PDT	On-Off-On	Screw	480-2213-ND	48.46	40.08	35.36	4TL1-1
	4PST	Off-None-On	Screw	480-2216-ND	48.46	40.08	35.36	4TL1-2
	4PDT	On-None-On	Screw	480-2217-ND	48.46	40.08	35.36	4TL1-3
	4PDT	Mom-Off-Mom	Screw	480-2219-ND	48.46	40.08	35.36	4TL1-7
	4PDT	On-On-On	Screw	480-2215-ND	51.94	42.96	37.91	4TL1-12

Fig.	Circuit	Function	Terminal Type	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
NEW! TS Series — Sealed Toggle Switches NEW!								
9	SPDT	On-Off-On	Screw	480-3052-ND	15.78	12.20	10.40	11TS15-1
	SPST	Off-None-On	Screw	480-3053-ND	13.21	10.39	8.71	11TS15-2
	SPDT	On-None-On	Screw	480-3054-ND	15.78	12.20	10.40	11TS15-3
	SPST	Mom-None-On	Screw	480-3055-ND	14.87	11.69	9.80	11TS15-4
	SPDT	Mom-Off-On	Screw	480-3056-ND	16.63	12.85	10.78	11TS15-5
	SPST	Mom-None-Off	Screw	480-3057-ND	14.87	11.69	9.80	11TS15-6
	SPDT	Mom-Off-Mom	Screw	480-3058-ND	16.63	12.85	10.78	11TS15-7
	SPDT	Mom-None-On	Screw	480-3059-ND	16.63	12.85	10.78	11TS15-8
10	DPDT	On-Off-On	Screw	480-3060-ND	19.52	15.34	13.25	12TS15-1
	DPDT	On-None-On	Screw	480-3061-ND	19.52	15.34	13.25	12TS15-3
	DPST	Mom-None-Off	Screw	480-3062-ND	19.52	15.34	13.25	12TS15-6
	DPDT	Mom-Off-Mom	Screw	480-3063-ND	20.45	16.67	14.32	12TS15-7
	DPDT	Mom-None-On	Screw	480-3064-ND	20.45	16.67	14.32	12TS15-8
11	SPDT	On-Off-On	Quick Connect	480-3065-ND	15.09	11.87	9.95	11TS95-1
	SPST	Off-None-On	Quick Connect	480-3066-ND	12.87	9.90	8.30	11TS95-2
	SPDT	On-None-On	Quick Connect	480-3067-ND	15.09	11.87	9.95	11TS95-3
	SPST	Mom-None-Off	Quick Connect	480-3068-ND	13.67	10.75	9.01	11TS95-6
	SPDT	Mom-Off-Mom	Quick Connect	480-3069-ND	15.95	12.33	10.52	11TS95-7
12	DPDT	On-Off-On	Quick Connect	480-3070-ND	18.10	14.66	12.29	12TS95-1
	DPST	Off-None-On	Quick Connect	480-3071-ND	15.95	12.33	10.52	12TS95-2
	DPDT	On-None-On	Quick Connect	480-3072-ND	18.10	14.66	12.29	12TS95-3
	DPST	Mom-None-On	Quick Connect	480-3073-ND	19.52	15.34	13.25	12TS95-4
	DPDT	Mom-Off-Mom	Quick Connect	480-3074-ND	20.22	15.89	13.73	12TS95-7
13	SPDT	On-Off-On	Solder Ring	480-3075-ND	14.98	11.78	9.88	11TS115-1
	SPST	Off-None-On	Solder Ring	480-3076-ND	12.76	9.81	8.23	11TS115-2
	SPDT	On-None-On	Solder Ring	480-3077-ND	14.98	11.78	9.88	11TS115-3
	SPDT	Mom-Off-On	Solder Ring	480-3078-ND	15.89	12.28	10.48	11TS115-5
	SPST	Mom-None-Off	Solder Ring	480-3079-ND	13.27	10.44	8.75	11TS115-6
	SPDT	Mom-Off-Mom	Solder Ring	480-3080-ND	15.89	12.28	10.48	11TS115-7
	SPDT	Mom-None-On	Solder Ring	480-3081-ND	15.89	12.28	10.48	11TS115-8
14	DPDT	On-Off-On	Solder Ring	480-3082-ND	17.72	14.35	12.03	12TS115-1
	DPST	Off-None-On	Solder Ring	480-3083-ND	15.49	11.97	10.21	12TS115-2
	DPDT	On-None-On	Solder Ring	480-3084-ND	17.72	14.35	12.03	12TS115-3
	DPDT	Mom-Off-On	Solder Ring	480-3085-ND	19.68	15.47	13.36	12TS115-5
	DPDT	Mom-Off-Mom	Solder Ring	480-3086-ND	19.68	15.47	13.36	12TS115-7
	DPDT	Mom-None-On	Solder Ring	480-3087-ND	19.68	15.47	13.36	12TS115-8
Locking Switches								
TL Series — Sealed Toggle Switches								
6	SPST	Off-None-On	Screw	480-2193-ND†	35.77	29.35	25.69	1TL1-2D
	SPDT	On-None-On	Screw	480-2195-ND†	37.49	30.77	26.92	1TL1-3D
	SPDT	On-None-On	Screw	480-2196-ND‡	38.24	31.38	27.46	1TL1-3G
7	DPDT	On-None-On	Screw	480-2206-ND†	44.49	36.30	32.20	2TL1-3D
	DPDT	On-On-On	Screw	480-2203-ND◊	47.69	39.44	34.81	2TL1-10A
8	4PDT	On-None-On	Screw	480-2218-ND†	62.12	51.77	46.59	4TL1-3D
	4PDT	On-Off-On	Screw	480-2214-NDΔ	79.83	68.43	60.45	4TL1-10E

† Locked out of center position ‡ Locked in extreme position (keyway side) ◊ Locked in three positions Δ Locked in center position

Honeywell
Sensing and Control

AML and PB Series Switches and Indicators

AML Series: Features: MICRO SWITCH AML Advanced Manual Line combines functional flexibility with electrical versatility to provide a broad range of options to choose from.
Installation: They snap in from the panel front individually or in vertical or horizontal strips; or in sub panel mounted strips and matrices that can be pre-assembled and pre-wired to assure accurate alignment and efficient panel building.
Characteristics:
- UL recognized, CSA certification
- Electrical/Mechanical Life: 25,000 cycles

PB Series: Features: These switches resemble the touch-feedback design, but have a flexible leaf actuator for lower operating force and shorter button travel. An elastomer seal is bonded between actuating plunger and button collar. An O-ring seals the button assembly to the panel front.

AML Series — Pushbutton Switches

Dim. in Inches

Fig. 1

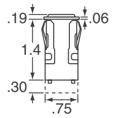

Fig. 2

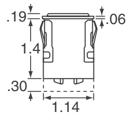

Fig.	Circuit	Housing Type	Current Rating	Terminal Type	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
1	SPDT	Square; Illum.	0.4 ~ 2A @ 0.5 ~ 250VAC	.110”x.020” QC	480-2220-ND	15.71	12.14	10.36	AML21CBA2AA
		Square; Illum.		.110”x.020” QC	480-2221-ND	16.19	12.51	10.67	AML21CBA2AB
		Square; Illum.		.025”x.025” PO	480-2224-ND	15.71	12.14	10.36	AML21CBA3AA
		Sq.; Non-Illum.		.110”x.020” QC	480-2294-ND	12.63	9.72	8.15	AML21BBA2AA
		Rect.; Non-Illum.		.110”x.020” QC	480-2226-ND	13.67	10.75	9.01	AML21EBA2AA
		Rectangle; Illum.		.110”x.020” QC	480-2228-ND	19.23	15.11	13.05	AML21GBA2AA
1	DPDT	Square; Illum.	0.4 ~ 2A @ 0.5 ~ 250VAC	.110”x.020” QC	480-2222-ND	18.66	15.11	12.66	AML21CBA2AC
		Square; Illum.		.110”x.020” QC	480-2223-ND	19.06	14.98	12.94	AML21CBA2AD
		Square; Illum.		.025”x.025” PO	480-2225-ND	18.66	15.11	12.66	AML21CBA3AC
		Rectangle; Illum.		.110”x.020” QC	480-2227-ND	19.97	15.70	13.56	AML21FBA2AC
		Rectangle; Illum.		.110”x.020” QC	480-2229-ND	22.18	18.08	15.53	AML21GBA2AD
2	DPST	Rect.; Non-Illum.	0.4 ~ 10A @ 0.5 ~ 250VAC	.187”x.020” QC	480-2230-ND	23.44	19.10	16.41	AML31EBA4AC
		Rect.; Non-Illum.		.187”x.020” QC	480-2231-ND	24.03	19.59	16.83	AML31EBA4AD
		Rectangle; Illum.		.187”x.020” QC	480-2232-ND	25.67	20.93	17.97	AML31FBA4AC
		Rectangle; Illum.		.187”x.020” QC	480-2233-ND	26.27	21.41	18.39	AML31FBA4AD
		Rectangle; Illum.		.187”x.020” QC	480-2234-ND	29.76	24.26	20.84	AML32FBB4AD
		Rectangle; Illum.		.187”x.020” QC	480-2235-ND	28.29	23.06	19.81	AML32FBB7AD
		Rectangle; Illum.		.187”x.020” QC	480-2236-ND	29.76	24.26	20.84	AML32FBK4AD

PB Series — Pushbutton Switches

Dim. in Inches

Fig. 1

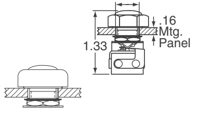

Fig. 2

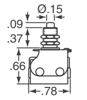

Fig. 3

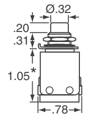

* Dim. = .99 for 480-2286-ND

Fig. 4

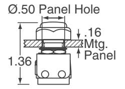

Fig. 5

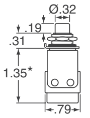

* Dim. = 1.05 for 480-2290-ND

Fig.	Circuit	Housing Type	Current Rating	Terminal Type	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
1	SPDT	Round; Black Alum.	5A @ 250VAC	Solder	480-2283-ND◆	70.86	59.06	52.17	1PB4
1		Round; Black Alum.		Solder	480-2284-ND	68.10	56.76	50.14	1PB42
2		Round; Steel		Solder	480-2285-ND	37.48	30.75	26.91	1PB5
3		Round; Black Plastic		Solder	480-2286-ND◆	59.22	49.35	44.42	2PB11
3		Round; Black Plastic		Solder	480-2287-ND	59.22	49.35	44.42	2PB11-T2
3		Round; Red Plastic		Solder	480-2288-ND	59.22	49.35	44.42	2PB12-T2
4		Round; Black Alum.		Solder	480-2289-ND	90.40	75.77	67.94	2PB4
5		Round; Black Plastic		Solder	480-2293-ND◆	78.35	67.16	59.33	82PB19-T2
5	SPDT	Round; Black Plastic	5A @ 28VDC	Solder	480-2290-ND◆	70.55	58.79	51.94	2PB732-T2
		Round; Black Plastic		Solder	480-2291-ND◆	706.28	623.88	576.80	702PB1
		Round; Black Plastic		Solder	480-2292-ND◆	745.17	668.08	629.54	704PB1

◆ *RoHS Compliant*

AML Series — Rocker and Paddle Switches

Dim. in Inches

Fig. 1

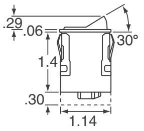

Fig. 2

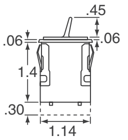

Circuit	Housing Type	Current Rating	Terminal Type	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
Fig. 1 — Rocker Switches								
DPDT	Rect.; Non-Illum.	3A @ 125VAC	.110”x.02” QC	480-2237-ND	23.05	18.79	16.14	AML24EBA2BC01
SPDT	Rect.; Non-Illum.		.110”x.02” QC	480-2239-ND	16.49	12.74	10.87	AML24EBA2AA01
SPDT	Rect.; Non-Illum.		.110”x.02” QC	480-2240-ND	16.49	12.74	10.87	AML24EBA2AA06
SPDT	Rect.; Non-Illum.		.110”x.02” QC	480-2241-ND	17.80	14.41	12.08	AML24EBA2BA01
DPST	Rect.; Non-Illum.	15A @ 125VAC	.187”x.02” QC	480-2242-ND	25.34	20.66	17.74	AML34EBA4AC01
DPST	Rect.; Illum.		.187”x.02” QC	480-2243-ND	27.74	22.61	19.42	AML34FBA4AC01
Fig. 2 — Paddle Switch								
DPDT	Rect.; Illum.	3A @ 125VAC	.110”x.02” QC	480-2238-ND	33.16	27.21	23.81	AML23GBA2CA01

AML Series — Indicators

Dim. in Inches

Fig. 1

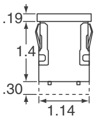

Fig. 2

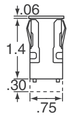

Circuit	Housing Type	Terminal Type	Lamp Type	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
Fig. 1 — Incandescent Display Indicators								
SPST	Square	.110”x.02” QC	1 Lamp Circuit	480-2244-ND	10.66	8.11	6.95	AML41CBA2
	Square		2 Lamp Circuits	480-2245-ND	13.06	10.05	8.42	AML41DBA2
	Rectangle		1 Lamp Circuit	480-2246-ND	11.28	8.68	7.27	AML41FBA2
	Rectangle		2 Lamp Circuits	480-2247-ND	14.09	11.08	9.29	AML41GBA2
Fig. 2 — LED Display Indicators								
SPST	Compact	.110”x.02” QC	Red; 5V	480-2248-ND	17.27	13.35	11.19	AML42SBC2
			Red; 24V	480-2249-ND	17.45	14.13	11.85	AML42SBF2
			Yellow; 5V	480-2250-ND	17.27	13.35	11.19	AML42SBJ2
			Yellow; 24V	480-2251-ND	20.00	16.31	14.01	AML42SBM8
			Green; 5V	480-2252-ND	17.27	13.35	11.19	AML42SBS2
			Green; 24V	480-2253-ND	17.45	14.13	11.85	AML42SBX2

Accessories for AML Series

Dim. in Inches

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
1	Square Button for Pushbuttons; Red	480-2254-ND	4.11	2.84	2.31	AML51-A10R
	Square Button for Pushbuttons; Red	480-2255-ND	2.04	1.32	1.04	AML51-C10R
	Square Button for Pushbuttons; White	480-2256-ND	2.04	1.32	1.04	AML51-C10W
	Square Button for Pushbuttons; White with Clear Cap	480-2257-ND	3.56	2.46	2.00	AML51-C11W
	Rectangle Button for Pushbuttons; Red	480-2258-ND	2.79	1.89	1.53	AML51-F10R
2	Rectangle Button for Pushbuttons; Black	480-2259-ND	2.79	1.89	1.53	AML52-N10K
	Rectangle Button for Pushbuttons; Red	480-2260-ND	2.79	1.89	1.53	AML52-N10R
3	Full Rocker Operator Cover; Red	480-2261-ND	3.19	2.13	1.74	AML54-F10R
4	Short End Barrier for AML Pushbuttons; Black	480-2262-ND	2.30	1.56	1.21	AML71SEB
5	Panel Seal for Square Pushbuttons	480-2263-ND	6.61	4.89	4.05	AML75ABC
6	Panel Seal for Rectangle Pushbuttons	480-2264-ND	6.54	4.84	4.01	AML75BBC
7	Switch Guard for Square Pushbuttons	480-2265-ND	9.90	7.54	6.46	AML76C10T01P
8	Switch Guard for Rectangle Pushbuttons	480-2266-ND	9.90	7.54	6.46	AML76F10T01P
9	Incandescent Lamp; 14V	480-2267-ND	3.56	2.46	2.00	AML91LA73
	Incandescent Lamp; 28V	480-2268-ND	3.56	2.46	2.00	AML91LA85

Fig. 1

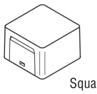

Square shown

Fig. 2

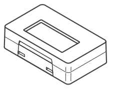

Fig. 3

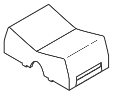

Fig. 4

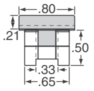

Fig. 5

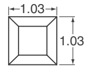

Fig. 6

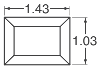

Fig. 7

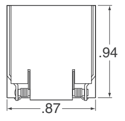

Fig. 8

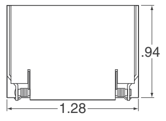

Fig. 9

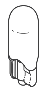

Rocker Switches

AS Series: **Features:** • Double insulation • Epoxy sealed terminals • **Insulation Resistance:** 10,000MΩ minimum • **Electrical Life:** 50,000 cycles • **Operating Temperature Range:** -40°C ~ 85°C

MR Series: **Features:** • Cost effective • Double pole maintained action models • **Insulation Resistance:** 100MΩ minimum @ 500V • **Electrical Life:** 10,000 cycles at full load • **Operating Temperature Range:** -20°C ~ 80°C

R Series: **Features:** • Cost effective • **Initial Contact Resistance:** 20mΩ maximum • **Insulation Resistance:** 100MΩ minimum @ 500V • **Dielectric Strength:** 1,000VAC for 1 minute • **Electrical Life:** 16(4)A 250VAC; 10,000 cycles • **Operating Temperature Range:** -20°C ~ 125°C

RH Series: • **Initial Contact Resistance:** 20mΩ maximum • **Insulation Resistance:** 100MΩ minimum @ 500V • **Dielectric Strength:** 1,000VAC for 1 minute • **Electrical Life:** 16(4)A 250VAC; 10,000 cycles • **Operating Temperature Range:** -20°C ~ 85°C

B Series: • **Initial Contact Resistance:** 20mΩ maximum • **Insulation Resistance:** 100MΩ minimum @ 500V • **Dielectric Strength:** 1,000VAC for 1 minute • **Electrical Life:** 6,000 cycles at full load • **Operating Temperature Range:** -20°C ~ 85°C

2600 Series: • **Insulation Resistance:** 1,000MΩ min. at 500VDC • **Dielectric Strength:** 2,500V rms minimum (between terminals) • **Electrical Life:** 10,000 cycles minimum at full load • **Operating Temperature Range:** -20°C ~ 125°C

FM Series: **Features:** • Ergonomically designed models for class II appliances • Double shell case provides sealing protection from dust and moisture • International standard panel cut-out • Insulation Resistance: 1,000MΩ minimum • **Electrical Life:** 10,000 cycles at full load • **Mechanical Life:** 50,000 cycles minimum • **Operating Temperature Range:** -20°C ~ 85°C

Fig.	Circuit	Switch Function	Actuator Description	Terminals	Contact Ratings	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
					AS Series					
1	SPDT	On-Mom On-On On-Off-On Mom-Off-Mom	Black	Solder Lug	4A 152VAC	679-1148-ND 679-1149-ND 679-1150-ND 679-1151-ND	3.81 3.33 3.16 3.81	3.48 3.04 2.89 3.48	3.14 2.75 2.61 3.14	AS32S010010 AS36S010010 AS39S010010 AS37S010010
		On-On On-Off-On Mom-Off-Mom		PCB	0.4VA 20V	679-1152-ND 679-1153-ND 679-1154-ND	2.89 3.16 3.60	2.64 2.89 3.29	2.38 2.61 2.97	AS36P0000 AS39P0000 AS37P0000
					MR Series					
2	DPST	On-Off	Black ON OFF Illum./Red O - Black O -	.187"QC	10A	679-1155-ND 679-1156-ND 679-1157-ND 679-1158-ND	1.09 1.09 1.46 1.09	1.00 1.00 1.34 1.00	.90 .90 1.21 .90	MR210C2NBB MR210C3NBB MR210C5LBR MR210C5NBB
					R Series					
3	DPST	On-Off On-Off On-Off Mom-Off	Black Red Black O - Black	.250"QC	16A	679-1159-ND 679-1160-ND 679-1161-ND 679-1164-ND	1.60 1.63 1.63 1.97	1.46 1.49 1.49 1.80	1.32 1.35 1.35 1.63	R2101C2NBB R2101C2NBR R2101C5NBB R2401C2NBB
	DPDT	On-Off-On On-On Mom-Off-Mom	Black			679-1163-ND 679-1162-ND 679-1165-ND	2.21 2.48 2.28	2.02 2.27 2.08	1.82 2.05 1.88	R2301C2NBB R2201C2NBB R2601C2NBB
					RH Series					
4	SPST	On-Off	Illum. Red Black Black	.250"QC .250"QC Solder Lug	16A	679-1166-ND 679-1167-ND 679-1168-ND	1.46 1.39 1.56	1.34 1.28 1.43	1.21 1.15 1.29	RH110C2LBR RH110C2NBB RH111C2NBB
	SPDT	On-On On-On On-Off-On Mom-Off-Mom	Black	.250"QC Solder Lug .250"QC .250"QC		679-1170-ND 679-1171-ND 679-1173-ND 679-1175-ND	1.39 1.56 1.39 1.67	1.28 1.43 1.28 1.52	1.15 1.29 1.15 1.38	RH120C2NBB RH121C2NBB RH130C2NBB RH160C2NBB
					B Series					
5	SPST	On-Off	Illum. Red Black	.250"QC	15A	679-1176-ND 679-1177-ND	1.12 .75	1.03 .69	.93 .62	B160R2LBR1NN B160R2NBB0NN
					2600 Series					
6	DPST	On-Off	Red Black	.250"QC	16A	679-1178-ND 679-1179-ND	4.45 4.69	4.07 4.28	3.67 3.87	2641LH/2A216000L0 2641LH/2A212000L0
	DPDT	On-Off-On On-On Mom-Off-Mom	Black	.250"QC	10A 16A 10A	679-1180-ND 679-1181-ND 679-1182-ND	6.46 5.58 7.04	5.89 5.09 6.42	5.32 4.60 5.80	2649LH/2A212000L0 2646LH/2A212000L0 2647LH/2A212000L0
					FM Series					
7	SPST	On-Off On-Off Mom-Off	Black Black ON OFF Black	Solder Lug .185"QC Solder Lug	6A 6A 4A	679-1183-ND 679-1184-ND 679-1185-ND	1.43 2.41 2.82	1.31 2.21 2.58	1.18 1.99 2.33	FMC12A2200000 FMC18A2200005 FMC32A2200000
	SPDT	On-Off-On On-On	Black	Solder Lug	6A	679-1186-ND 679-1187-ND	1.90 1.73	1.74 1.59	1.57 1.43	FMC92A2200000 FMC62A2200000

Dimensions in mm

Fig. 1

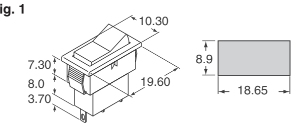

Fig. 2

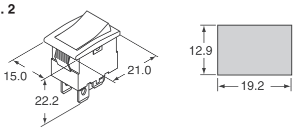

Fig. 3

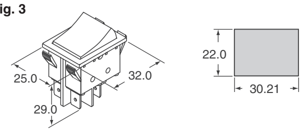

Fig. 4

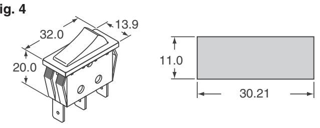

Fig. 5

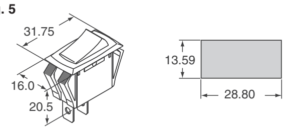

Fig. 6

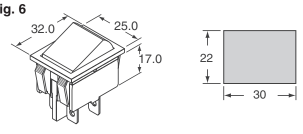

Fig. 7

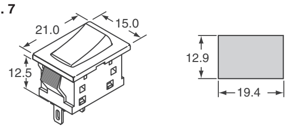

NEW! Toggle Switches

MT Series Environmentally Sealed (IP68)

Specifications: • **Current/Voltage Rating:** 3A at 250VAC, 6A at 125VAC, 4A at 30VDC • **Initial Contact Resistance:** 10mΩ maximum • **Insulation Resistance:** 1,000MΩ minimum @ 500VDC • **Dielectric Strength:** 1,000Vrms 50Hz minimum between terminals, 1,500Vrms 50Hz minimum between terminals and frame • **Contact Bounce:** 2ms maximum • **Electrical Life At Full Load:** 50,000 cycles • **Low Level or Mechanical Life:** 100,000 cycles • **Operation Temperature:** -40°C ~ 85°C • **Mounting hardware included:** one hex nut and one sealing gasket
Materials: • **Actuator:** 6/6 Nylon • **Bushing:** Brass, nickel plated • **Contacts:** Silver, gold plated • **Terminals:** Solder lug • **Terminal Seal:** Epoxy

Description	Digi-Key Part No.	Price Each 1	25	100	Apem Part No.
Mom-Off-Mom	679-1420-ND	67.90	61.91	55.92	MTG72AD2
On-Mom	679-1421-ND	67.90	61.91	55.92	MTG22AD2
On-On	679-1422-ND	67.90	61.91	55.92	MTG62AD2
On-Off-Mom	679-1423-ND	67.90	61.91	55.92	MTG82AD2
On-Off-On	679-1424-ND	67.90	61.91	55.92	MTG92AD2

Dimensions in mm

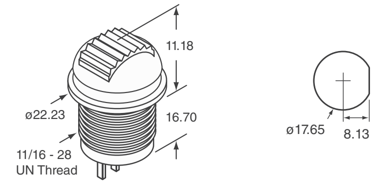

Keylock Switches

Features: • Multiple key-pull position options • 45° or 90° indexing

Specifications: • **Contact Ratings:** Maximum resistive loads: 4A at 125VAC, 2A at 250VAC • **Operating Temperature Range:** -30°C ~ 85°C • **Electrical Life:** 6,000 cycles at full load • **Contacts:** Gold over silver over copper alloy • **Lock:** Nickel plated zinc alloy • **Case:** Glass filled polyester • **Mounting Nut:** Nickel plated zinc alloy

Dimensions in mm

Keycode
No. A126
Supplied with 2 keys

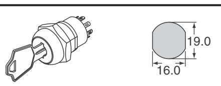

Circuit	Keypull Possible	Switch Type	Connected Terminals Pos. 1	Pos. 2	Pos. 3	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
DP	1	On-On-On	8-1 4-5	1-2 5-6	2-3 6-7	679-1188-ND	16.73	15.26	13.78	JD7509B
	1	On-On-On	8-1 4-5	1-2 5-6	7-8 3-4	679-1190-ND	16.73	15.26	13.78	JD7509H
	1,2,3	On-On-On	8-1 4-5	1-2 5-6	7-8 3-4	679-1191-ND	16.73	15.26	13.78	JD7509J
	1	On-On	8-1 4-5	1-3 5-7	—	679-1193-ND	16.32	14.88	13.44	JD7509O
	2	On-On	8-1 4-5	1-3 5-7	—	679-1194-ND	16.32	14.88	13.44	JD7509Q
	1,2	On-On	8-1 4-5	1-3 5-7	—	679-1196-ND	16.32	14.88	13.44	JD7509S
SP	1,3	On-On-On	8-1	1-2	2-3	679-1189-ND	16.73	15.26	13.78	JD7509E
	1	On-On	8-1	1-3	—	679-1192-ND	16.32	14.88	13.44	JD7509N
	1,2	On-On	8-1	1-3	—	679-1195-ND	16.32	14.88	13.44	JD7509R
	1	On-Mom	8-1	1-2	—	679-1197-ND	19.01	17.33	15.66	JD7510A
	1	Mom-On-Mom	8-1	1-2	7-8	679-1198-ND	19.01	17.33	15.66	JD7510E

Carling Technologies™

Curvette Rocker Switches

The R Series Curvette line of Rocker Switches are Snap-In power switches used in Appliances, Medical, HVAC, Lawn & Garden and Transportation markets. The Dual Molded Visi-Rocker gives visual indication whether the switch is On or Off and will never burn out like Illuminated Rockers or wear off like Ink Stamped actuators. **Specifications:** 10A @ 250VAC, 16A @ 125VAC, RD221 = 8A @ 250VAC, 12A @ 125VAC **Dielectric Strength**: UL/CSA: 1000V live to dead metal. 750V across open contacts. **Electrical Life:** 100,000 cycles **Mechanical Life:** 100,000 cycles **Operating Temperature:** 0°C ~ 85°C **Terminal:** .250" QC

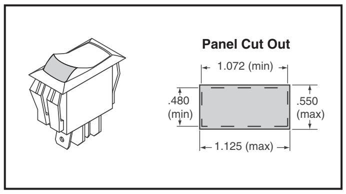

Circuit	Function	Body Color	Actuator Color	Markings	Digi-Key Part No.	Price Each 1	25	50	Carling Tech. Part No.
SPST	On-Off	Black	Black	None	432-1110-ND	1.33	.72	.52	RA901-RB-B-0-N
SPST	On-Off	Black	Black	Vert. "Off-On"	432-1111-ND◆	1.43	.77	.55	RA901-RB-B-A-N
SPST	On-Off	Black	Black	Vert. I-O	432-1112-ND	1.43	.77	.55	RA901-RB-B-F-N
SPST	On-Off	Black	Blk./Visi Red	None	432-1115-ND	1.43	.77	.55	RA901-VB-B-0-V
SPST	On-Off	Black	Blk./Visi Red	Vert. "Off-On"	432-1116-ND◆	1.43	.77	.55	RA901-VB-B-1-V
SPST	On-Off	Black	Blk./Visi Red	Horz. "Off-On"	432-1117-ND	1.43	.77	.55	RA901-VB-B-2-V
SPST	On-Off	Black	Blk./Visi Red	Vert. I-O	432-1118-ND◆	1.43	.77	.55	RA901-VB-B-9-V
SPST	On-Off	White	Wht./Visi Red	Vert. "Off-On"	432-1120-ND	1.56	.84	.60	RA901-VW-W-1-V
SPDT	On-Off-On	Black	Black	None	432-1121-ND◆	1.53	.83	.59	RC911-RB-B-0-N
SPST	Off-Mom	Black	Black	None	432-1122-ND◆	1.92	1.04	.74	RD221-MB-B-0-N

◆ ***RoHS Compliant***

CW INDUSTRIES

Panel Mount Rocker Switches

Mini Rocker Switches

CW Rocker switches are single pole or double pole switches capable of currents normally associated with much larger switches. Standard black body with either black or red rocker knob. Designed to satisfy unique styling requirements which can be the key to a product's success. Switches with markings are white ink stamped markings on rocker knob. Illuminated "Soft Glow" switches are 110VAC neon bulbs, red diffused lens. All terminals are .187" QC. **Typical Applications:** Motor-driven devices, instruments, household appliances, auto. access., recreational vehicles and telecommunication, computer and computer peripheral equipment. **MATERIALS:** • **Rocker Knob:** Nylon 94V-2 • **Housing:** Nylon 94V-2 • **Terminal/Stationary/Moving Contact:** Copper alloy and/or copper alloy silver plated **MOUNTING:** Self locks without hardware when popped into the panel cutout. Acceptable panel thickness range is from .050" ~ .150" (1.27mm ~ 3.81mm). **PERFORMANCE STANDARDS: Contact Resistance:** Less than .01Ω at 10mA (initial) **Operating Temperature:** 105°C maximum ***Caution:*** Burr direction must be away from the direction of insertion.

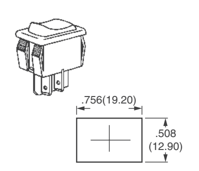

Switch Markings

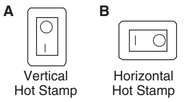

Switch Marking	Rocker Color	Circuit	Finish	Switch Function	Electrical Ratings	Listing Agencies	Digi-Key Part No.	Price Each 1	10	100	500	CW Industries Part No.
—	Black	SPST	Matte	On/Off	16A 125 ~ 250VAC	UL, CSA, VDE	SW339-ND‡	1.22	.93	.71	.56	GRS-4011-0024
—	Black	SPST	Matte	On/Off	16A 125 ~ 250VAC	UL, CSA, VDE	SW301-ND	1.11	.85	.65	.51	GRS-4011-1600
—	Red	SPST	Matte	On/Off	16A 125 ~ 250VAC	UL, CSA, VDE	SW302-ND	1.11	.85	.65	.51	GRS-4011-0040
B	Black	SPST	Matte	On/Off	16A 125 ~ 250VAC	UL, CSA, VDE	SW322-ND	1.23	.94	.72	.56	GRS-4011-0068
A	Black	SPST	Matte	On/Off	16A 125 ~ 250VAC	UL, CSA, VDE	SW323-ND	1.23	.94	.72	.56	GRS-4011-0076
—	Black	SPDT	Matte	On/On	16A 125 ~ 250VAC	UL, CSA, VDE	SW303-ND	1.20	.91	.70	.55	GRS-4012-1600
—	Red	SPDT	Matte	On/On	16A 125 ~ 250VAC	UL, CSA, VDE	SW304-ND	1.20	.91	.70	.55	GRS-4012-0026
A	Black	SPDT	Matte	On/On	16A 125 ~ 250VAC	UL, CSA, VDE	SW324-ND	1.32	1.01	.77	.60	GRS-4012-0047
—	Black	DPDT	Matte	On/On	16A 125 ~ 250VAC	UL, CSA, VDE	SW307-ND	1.71	1.30	1.00	.78	GRS-4022-1600
—	Red	DPDT	Matte	On/On	16A 125 ~ 250VAC	UL, CSA, VDE	SW308-ND	1.71	1.30	1.00	.78	GRS-4022-0010
A	Black	DPDT	Matte	On/On	16A 125 ~ 250VAC	UL, CSA, VDE	SW325-ND	1.82	1.38	1.06	.83	GRS-4022-0013
—	Black	SPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW305-ND	1.52	1.16	.89	.69	GRS-4013A-1300
—	Red	SPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW306-ND	1.52	1.16	.89	.69	GRS-4013A-0008
—	Black	SPST	Matte	Off/Mom	13A 125VAC, 10A 250VAC	UL, C SA	SW329-ND	1.30	.99	.76	.59	GRS-4011B-1300
—	Black	SPDT	Matte	Mom/Off/Mom	8A 125VAC, 4A 250VAC	UL, CSA	SW340-ND	1.51	1.15	.88	.69	GRS-4013C-0001
—	Black	DPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW309-ND	2.03	1.54	1.18	.92	GRS-4023A-1300
—	Red	DPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW310-ND	2.03	1.54	1.18	.92	GRS-4023A-0009
—	Black	DPST	Matte	Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW330-ND	1.80	1.37	1.05	.82	GRS-4021B-0000
—	Black	DPDT	Matte	Mom/Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW311-ND	2.03	1.54	1.18	.92	GRS-4023C-1300
—	Red	DPDT	Matte	Mom/Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW312-ND	2.03	1.54	1.18	.92	GRS-4023C-0005
—	Red Illum.	SPST	Matte	On/Off	16A 125VAC	UL, CSA	SW300-ND	2.81	2.13	1.64	1.27	GRL-4011-1600

‡ Note: Eyelet Terminals

Standard Rocker Switches

CW Rocker Switches are designed to solve the switching problems of the user and styled to satisfy the designer. They are easy to mount, easy to terminate and easy to actuate. Hot stamped versions are marked for switch position identification; illuminated version is 120VAC neon bulb. **OPERATING STANDARDS: Temperature:** 105°C maximum **Contact Resistance:** 0.01Ω at 10mA. **MATERIALS: Rocker Knob:** Nylon 94V-4. **Housing:** Nylon 94V-2. **Terminal Board:** Nylon 94V-0. **Terminal/Moving Contact:** Copper and/or copper alloy silver plated. **MOUNTING:** No hardware or tools needed; self locks into proper panel cutout. Acceptable panel thickness range is from .025" ~ .180" (0.64mm ~ 4.57mm). All terminals are .250" QC. ***Caution:*** Burr direction must be away from the direction of insertion.

Fig. 1

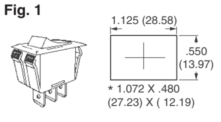

Fig. 2

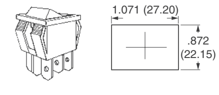

A Switch Marking

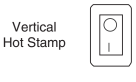

Fig.	Switch Marking	Rocker Color	Finish	Circuit	Switch Function	Electrical Ratings	Listing Agencies	Digi-Key Part No.	Price Each 1	10	100	500	CW Industries Part No.
1	—	Red Illum.	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW313-ND	2.27	1.72	1.32	1.03	GRL-2011-1600
	—	Black	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW314-ND	1.07	.81	.62	.49	GRS-2011-2000
	—	Red	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW315-ND	1.07	.81	.62	.49	GRS-2011-2019
	A	Black	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW326-ND	1.17	.90	.69	.54	GRS-2011-2080
	—	Black	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW316-ND*	1.07	.81	.62	.49	GRS-2011-3000
1	—	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW319-ND*	1.15	.88	.67	.53	GRS-2012-3000
	A	Black	Matte	SPST	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW341-ND*	1.14	.87	.67	.52	GRS-2011-3020
	—	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW317-ND	1.15	.88	.67	.53	GRS-2012-2000
	—	Red	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW318-ND	1.15	.88	.67	.53	GRS-2012-2009
	A	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW327-ND	1.28	.97	.75	.58	GRS-2012-2028
1	—	Black	Matte	SPDT	On/Off/On	16A 125VAC, 12A 250VAC	UL, CSA	SW320-ND	1.49	1.13	.87	.68	GRS-2013A-2000
	—	Black	Matte	SPST-NO	Off/Mom	13A 125VAC	UL, CSA	SW613-ND	1.14	.87	.67	.52	GRS-2011B-2000
	—	Black	Matte	SPST-NC	On/Mom	13A 125VAC	UL, CSA	SW614-ND	1.23	1.11	.83	.56	GRS-2011C-2000
	—	Black	Matte	SPDT	Mom/Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW622-ND	1.56	1.18	.91	.71	GRS-2013C-1300
	—	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW623-ND	1.15	.88	.67	.53	GRS-2012-2600
	—	Black	Matte	SPST	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW624-ND	1.07	.81	.62	.49	GRS-2011-2600
2	—	Black	Matte	DPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW321-ND	2.77	2.10	1.61	1.25	GR-2022-1600
	A	Black	Matte	DPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW328-ND	2.87	2.18	1.67	1.30	GR-2022-0007

* Dimensions are 1.072" x .480" (27.23mm x 12.19mm)

IndicON™
Rocker Switches

Fig. 1

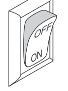

Fig. 2

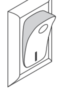

Fig. 3

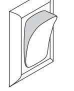

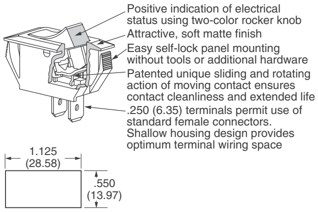
Positive indication of electrical status using two-color rocker knob
Attractive, soft matte finish
Easy self-lock panel mounting without tools or additional hardware
Patented unique sliding and rotating action of moving contact ensures contact cleanliness and extended life
.250 (6.35) terminals permit use of standard female connectors.
Shallow housing design provides optimum terminal wiring space
1.125
(28.58)
.550
(13.97)

IndicON rocker switches are the right choice wherever you want performance combined with style. Provides users with a positive indication whether switch is "On" or "Off". Unlike lighted rocker switches which may burn out over time, there's never a safety concern with IndicON switches. **Features:** • Economical alternative to lighted switches • Fast and secure mounting - no hardware required • Long life, reliable operation • Two color molding process provides permanent legends • Compatible appearance with other CW switches **Electrical Specifications:** 16A @ 125VAC rating without precious metals **Agency Certifications:** UL, CSA and VDE

Fig.	Switch Color	Actuator Color	Circuit Funct.	Switch Type	Term. Type In. (mm)	Digi-Key Part No.	Price Each 1	10	100	500	CW Industries Part No.
1	Black	Red	SPST	On-Off	.250QC (6.35)	SW344-ND	1.22	.93	.71	.56	NAA-111-BI11-00
1	Black	Red	SPDT	On-On	.250QC (6.35)	SW349-ND	1.31	.99	.76	.59	NBA-111-BI11-00
2	Black	Red	SPST	On-Off	.250QC (6.35)	SW354-ND	1.22	.93	.71	.56	NAA-111-BI21-00
3	Black	Red	SPST	On-Off	.250QC (6.35)	SW620-ND	1.22	.93	.71	.56	NAA-111-BI31-00
3	Black	Red	SPDT	On-On	.250QC (6.35)	SW621-ND	1.31	.99	.76	.59	NBA-111-BI31-00

Miniature Rocker Switches

Specifications: Silver or gold plated copper alloy **Rockers:** Nylon **Bushing:** Brass Nickel Plated **Housing:** Stainless Steel **Operating Temperature:** -30°C ~ 85°C

Fig. 1

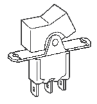

Fig. 2

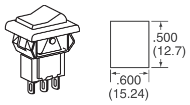

Fig. 3

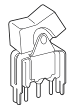

Fig. 4

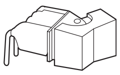

Fig. 5

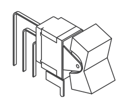

Fig. 6

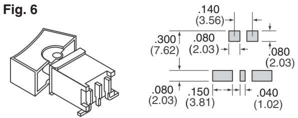

Dim. in inch (mm)

Fig.	Circuit	Actuator Color	Switch Function	Terminal	Contact Rating	Digi-Key Part No.	Price Each			E-Switch Part No.
							1	10	100	
Miniature Rocker Switches										
1	SPDT	Black	On-On	Solder Eyelet	5A	EG4306-ND	4.95	4.46	3.80	300SP1R1BLKM1QE
			On-Off-On		5A	EG4307-ND	3.99	3.60	3.06	300SP3R1BLKM1QE
	DPDT	Black	On-On	Solder Eyelet	5A	EG4308-ND	5.85	5.27	4.49	300DP1R1BLKM1QE
			On-Off-On		5A	EG4309-ND	6.38	5.74	4.89	300DP3R1BLKM1QE
2	SPDT	Black	On-On	Solder Eyelet	5A	EG4310-ND	6.21	5.60	4.77	300SP1R6BLKM1QEBLK
3	SPDT	Black	On-On	PCB	5A	EG4311-ND	4.96	4.46	3.80	300SP1J1BLKM2QE
					0.4VA	EG4312-ND†	5.26	4.74	4.04	300SP1J1BLKM2RE
4	SPDT	Black	On-On	Right Angle PCB	5A	EG4313-ND	5.14	4.63	3.95	300SP1J1BLKM6QE
5	SPDT	Black	On-On	Vertical Right Angle	5A	EG4314-ND	4.39	3.96	3.37	300SP1J1BLKM7QE
Process Sealed Miniature Rocker Switches										
1	SPDT	Black	On-On	Solder Eyelet	5A	EG4315-ND	5.40	4.86	4.14	300AWSP1R1BLKM1QE
			On-Off-On		5A	EG4316-ND	4.59	4.14	3.52	300AWSP3R1BLKM1QE
	DPDT	Black	On-On	Solder Eyelet	5A	EG4317-ND	4.83	4.35	3.71	300AWDP1R1BLKM1QE
			On-Off-On		5A	EG4318-ND	6.72	6.05	5.16	300AWDP3R1BLKM1QE
3	SPDT	Black	On-On	PCB	5A	EG4341-ND	4.20	3.78	3.22	300AWSP1J1M2QE
					0.4VA	EG4320-ND†	4.56	4.11	3.50	300AWSP1J1M2RE
4	SPDT	Black	On-On	Right Angle PCB	5A	EG4321-ND	5.68	5.12	4.36	300AWSP1J1BLKM6QE
5	SPDT	Black	On-On	Vertical Right Angle	5A	EG4322-ND	4.56	4.11	3.50	300AWSP1J1M7QE
Sub-Miniature Rocker Switches										
1	SPDT	Black	On-On	Solder Eyelet	3A	EG4323-ND	4.37	3.93	3.35	400MSP1R1BLKM1QE
					0.4VA	EG4324-ND†	6.09	5.49	4.67	400MSP1R1BLKM1RE
	DPDT	Black	On-On	Solder Eyelet	3A	EG4325-ND	5.79	5.22	4.44	400MDP1R1BLKM1QE
4	SPDT	Black	On-On	Right Angle PCB	3A	EG4326-ND	5.14	4.63	3.95	400MSP1R6BLKM6QE
					0.4VA	EG4327-ND†	5.39	4.85	4.13	400MSP1R6BLKM6RE
5	SPDT	Black	On-On	Vertical Right Angle	3A	EG4328-ND	4.14	3.73	3.18	400MSP1R1BLKM7QE
					0.4VA	EG4329-ND†	5.39	4.85	4.13	400MSP1R1BLKM7RE
Process Sealed Sub-Miniature Rocker Switches										
1	SPDT	Black	On-On	Solder Eyelet	3A	EG4330-ND	5.46	4.92	4.19	400AWMSP1R1BLKM1QE
					0.4VA	EG4331-ND†	5.46	4.92	4.19	400AWMSP1R1BLKM1RE
4	SPDT	Black	On-On	Right Angle PCB	3A	EG4332-ND	5.46	4.92	4.19	400AWMSP1R1BLKM6QE
					0.4VA	EG4333-ND†	5.46	4.92	4.19	400AWMSP1R1BLKM6RE
5	SPDT	Black	On-On	Vertical Right Angle	3A	EG4334-ND	5.19	4.68	3.98	400AWMSP1R1BLKM7QE
					0.4VA	EG4335-ND	5.46	4.92	4.19	400AWMSP1R1BLKM7RE

Fig.	Circuit	Actuator Color	Switch Function	Terminal	Contact Rating	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing	E-Switch Part No.
							1	10	100			
Surface Mount Process Sealed Rocker Switches												
6	SPDT	Black	On-On	SMD	3A	EG4336CT-ND	6.84	5.48	4.93	EG4336TR-ND	1231.88	400BWMSP1R2BLKSM6QE
			On-Mom		3A	EG4337CT-ND	6.84	5.48	4.93	EG4337TR-ND	1231.88	400BWMSP2R2BLKSM6QE
			On-Off-On		3A	EG4338CT-ND	7.08	5.67	5.10	EG4338TR-ND	1274.40	400BWMSP3R2BLKSM6QE
			Mom-Off-Mom		3A	EG4339CT-ND	7.08	5.67	5.10	EG4339TR-ND	1274.40	400BWMSP4R2BLKSM6QE
			On-Off-Mom		3A	EG4340CT-ND	7.08	5.67	5.10	EG4340TR-ND	1274.40	400BWMSP5R2BLKSM6QE

† Gold

Rocker Switches

RATINGS: • RA Series: 125VAC, 10A • RC Series: 125VAC, 12A • R1966 Series: 125VAC, 15A
Contact Resistance: 100mΩ maximum
Electrical Life: 10,000 Cycle
Terminals: .187 Faston (QC) or Solder Terminals
Approvals: UL, CSA, VDE, NEMKO, SEMKO, FEMKO, DEMKO

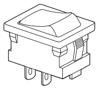

RA/RC - R1966

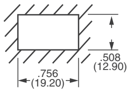

Panel Cutout

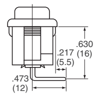

Right Angle PCB

Termination Options

Solder Lug

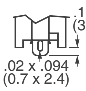

.187 Faston (QC)

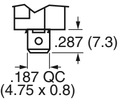

Fig. 1

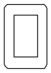

Fig. 2

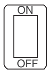

Fig. 3

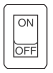

Fig. 4

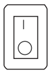

Fig. 5

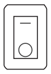

Fig. 6

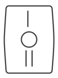

Fig.	Description	Digi-Key Part No.	Price Each			E-Switch Part No.
			1	10	100	
RA/RC Series (Black Matte Finish)						
1	SPST, 10A Black Matte No Marking	EG1504-ND	1.61	1.46	1.24	RA1066AFX
	DPST, 12A Black Matte No Marking	EG1507-ND	1.56	1.41	1.20	RC1083BBLKBLKEF
2	SPST, 10A Black Matte with Marking	EG1500-ND	1.61	1.46	1.24	RA1066AFC
3	SPST, 10A Black Matte with Marking	EG1501-ND	1.61	1.46	1.24	RA1066AFF
4	SPST, 10A Black Matte with Marking	EG1502-ND	1.61	1.46	1.24	RA1066AFK
	DPST, 12A Black Matte with Marking	EG1505-ND	1.56	1.41	1.20	RC1083BBLKBLKFF0
5	SPST, 10A Black Matte with Marking	EG1503-ND	1.61	1.46	1.24	RA1066AFH
	DPST, 12A Black Matte with Marking	EG1506-ND	1.56	1.41	1.20	RC1083BBLKBLKGF0
R1966 Series (Black Semi-Gloss Finish)						
1	SPST, 15A, Black No Marking .187 QC Term.	EG1508-ND	1.43	1.29	1.10	R1966ABLKBLKEF
	SPST, 15A, Black No Marking Solder Term.	EG1843-ND	1.78	1.43	1.28	R1966ABLKBLKES
	SPST, 15A, Off-Mom .187 QC Term.	EG1512-ND	2.05	1.85	1.57	R1966FBLKBLKEF
3	SPST, 15A, Black with Marking .187 QC Term.	EG1509-ND	1.43	1.29	1.10	R1966ABLKBLKIF
	SPST, 15A, Black with Marking Solder Term.	EG1844-ND	1.78	1.43	1.28	R1966ABLKBLKIS
4	SPST, 15A, Black with Marking .187 QC Term.	EG1510-ND	1.43	1.29	1.10	R1966ABLKBLKFF
	SPST, 15A, Black with Marking Solder Term.	EG1845-ND	1.79	1.44	1.29	R1966ABLKBLKFS
	SPST, 15A, Lt. Gray with Marking .187 QC Term.	EG2580-ND	1.79	1.44	1.29	R1966AGRYGRYFF
	SPST, 15A, White with Marking .187 QC Term.	EG2582-ND	1.79	1.44	1.29	R1966AWHTWHTFF
5	SPST, 15A, Black with Marking .187 QC Term.	EG1511-ND	1.43	1.29	1.10	R1966ABLKBLKGF
	SPST, 15A, Black with Marking Solder Term.	EG1846-ND	1.79	1.44	1.29	R1966ABLKBLKGS
	SPST, 15A, Lt. Gray with Marking .187 QC Term.	EG2581-ND	1.79	1.44	1.29	R1966AGRYGRYGF
	SPST, 15A, White with Marking .187 QC Term.	EG2583-ND	1.79	1.44	1.29	R1966AWHTWHTGF
6	SPDT, 15A, Black On-Off-On, .187 QC Term.	EG1841-ND	2.98	2.39	2.15	R1966DBLKBLKCF
R1966 Series (Illuminated)						
1	SPST, 15A, Red LED Illumination, .187 QC Term.	EG1514-ND	2.70	2.43	2.07	R1966ABLKBLKEFRED
	SPST, 15A, Green LED Illumination .187 QC Term.	EG1515-ND	2.70	2.43	2.07	R1966ABLKBLKEFGRN
	SPST, 15A, Yellow LED Illumination .187 QC Term.	EG1842-ND	2.70	2.43	2.07	R1966ABLKBLKEFYEL
	SPST, 15A, Red LED Illumination Solder Term.	EG1858-ND	2.70	2.43	2.07	R1966ABLKBLKESRED
	SPST, 15A, Green LED Illumination Solder Term.	EG1859-ND	2.70	2.43	2.07	R1966ABLKBLKESGRN
	SPST, 15A, Yellow LED Illumination Solder Term.	EG1860-ND	2.70	2.43	2.07	R1966ABLKBLKESYEL
	SPST, 15A, Black with Led Red, Rt. Angle PCB	EG2577-ND	3.93	3.15	2.83	R1966ABLKBLKERRED
Right Angle PCB Mount						
4	SPST, 15A, Black with Marking, Rt. Angle PCB	EG2579-ND	2.34	1.87	1.69	R1966ABLKBLKFR
5	SPST, 15A, Black with Marking, Rt. Angle PCB	EG2578-ND	2.34	1.87	1.69	R1966ABLKBLKGR

Plastic Pushbutton Switches

JUDCO Manufacturing Inc.

• 3/8-27 Thread (Nut is included) • 4.5" Wireleads

RoHS COMPLIANT

Dim. in Inches

Fig.	Circuit	Function	Termination	Bushing	Actuator Color	Body Color	Contact Rating	Digi-Key Part No.	Price Each 1	10	100
Solder Tab Pushbutton											
1	SPST	On, Off	.110 QC	Tall	Red	Black	14VDC, 2A	501PB-ND	1.36	1.15	1.03
	SPST	On, Off	.110 QC	Tall	Black	Black	14VDC, 2A	508PB-ND	1.36	1.15	1.03
	SPST	On, Off	.110 QC	Tall	White	Black	14VDC, 2A	537PB-ND	1.46	1.24	1.11
	SPST	Momentary N/O	.110 QC	Tall	Red	Black	14VDC, 2A	502PB-ND	1.81	1.53	1.37
	SPST	Momentary N/O	.110 QC	Tall	Black	Black	14VDC, 2A	509PB-ND	1.36	1.16	1.03
	SPST	On, Off	.110 QC	Tall	Black	Black	14VDC, 10A	544PB-ND	1.68	1.42	1.24
	SPST	On, Off	.110 QC	Short	Black	Black	14VDC, 10A	550PB-ND	1.60	1.36	1.19
	SPST	Momentary N/C	.110 QC	Tall	Red	Black	14VDC, 2A	503PB-ND	1.64	1.39	1.24
	SPST	Momentary N/C	.110 QC	Tall	Black	Black	14VDC, 2A	510PB-ND	1.76	1.49	1.33
	SPST	Momentary N/C	.110 QC	Tall	Red	Black	14VDC, 2A	536PB-ND	1.37	1.16	1.04
2	SPST	Momentary N/O	.110 QC	Tall	Black	Black	125VAC, 2A	520PB-ND	1.89	1.61	1.43
Wire Lead Pushbutton											
3	SPST	On, Off	18AWG	Tall	Red	Black	14VDC, 2A	505PB-ND	1.60	1.36	1.21
	SPST	On, Off	20AWG	Tall	Black	Black	14VDC, 2A	504PB-ND	1.54	1.31	1.17
	SPST	On, Off (Mom On)	18AWG	Tall	Black	Black	14VDC, 2A	525PB-ND	2.32	1.97	1.75
	SPST	On, Off (Mom On)	18AWG	Short	Black	Black	14VDC, 2A	526PB-ND	2.32	1.97	1.75
	SPST	Momentary N/O	18AWG	Tall	Red	Black	14VDC, 2A	506PB-ND	1.72	1.46	1.30
	SPST	Momentary N/O	18AWG	Tall	Black	Black	14VDC, 2A	507PB-ND	1.72	1.46	1.30
	SPST	Momentary N/O	18AWG	Tall	Black	Black	14VDC, 2A	521PB-ND	1.79	1.52	1.35
	SPST	On, Off	18AWG	Tall	Black	Black	14VDC, 10A	545PB-ND	1.87	1.59	1.38
	SPST	On, Off	18AWG	Short	Black	Black	14VDC, 10A	546PB-ND	1.89	1.60	1.40
	SPST	On, Off	18AWG	Short	Black	Black	14VDC, 2A	528PB-ND	1.74	1.48	1.32
	SPDT	On-On	18AWG	Tall	Black	Black	14VDC, 2A	527PB-ND	2.16	1.83	1.63
	SPDT	Momentary N/O	18AWG	Tall	Black	Black	14VDC, 2A	523PB-ND	2.65	2.25	2.00
	SPDT	On1, Off, On2	18AWG	Tall	Black	Black	14VDC, 2A	522PB-ND	2.52	2.14	1.90
	SPDT	On2, On1 and 2, On1, Off	18AWG	Tall	White	White	14VDC, 2A	524PB-ND	2.60	2.21	1.97
UL Recognized with Tactile Feel Pushbutton Switches											
1	SPST	On, Off	.110QC	Tall	Black	Black	14VDC, 10A	547PB-ND	1.77	1.51	1.32
	SPST	On, Off	.110QC	Short	Black	Black	14VDC, 10A	549PB-ND	1.71	1.45	1.27
	SPST	On, Off	.110QC	Tall	Black	Black	125VAC, 6A	548PB-ND	1.79	1.52	1.33
3	SPST	Momentary N/O	18AWG	Tall	Black	Black	14VDC, 4A	539PB-ND†	1.84	1.56	1.39
	SPST	On, Off	18AWG	Tall	Black	Black	14VDC, 10A	512PB-ND	1.66	1.41	1.26
	SPST	Momentary N/C	18AWG	Tall	Black	Black	14VDC, 10A	541PB-ND	1.85	1.57	1.40
	SPST	Momentary N/O	18AWG	Tall	Black	Black	125VAC, 2A	538PB-ND†	2.24	1.90	1.69
	SPST	On, Off	18AWG	Tall	Black	Black	125VAC, 6A	511PB-ND	1.76	1.50	1.34
	SPST	Momentary N/C	18AWG	Tall	Black	Black	125VAC, 6A	540PB-ND	2.19	1.86	1.66
	SPST	On, Off	18AWG	Short	Black	Black	125VAC, 6A	552PB-ND	2.00	1.69	1.48
Accessories											
—	Rubber Waterproof Boot with nut, Fits Tall Bushing, Black							513PB-ND	.81	.69	.62
	Rubber Waterproof Boot with nut, Fits Tall Bushing, Red							531PB-ND	.76	.65	.58
	Rubber Waterproof Boot with nut, Fits Short Bushing, Black							532PB-ND	.88	.75	.67
	Replacement Nut, Black Plastic							516PB-ND	.16	.14	.13
	Brass Knurled Nut							533PB-ND	.63	.54	.48
	Brass Hex Nut							534PB-ND	.82	.70	.62
	Nickel Hex Nut							535PB-ND	.85	.73	.65
Low Profile Pushbutton Switch											
4	SPST	On, Off	Right Angle	—	Yellow	Black	14VDC, 500mA	519PB-ND	1.23	1.04	.93
5	SPST	On, Off	Straight	—	Yellow	Black	14VDC, 500mA	518PB-ND	1.06	.90	.80
6	SPDT	On1, Off, On2	Right Angle	—	Yellow	Black	14VDC, 500mA	529PB-ND	1.06	.90	.80
	SPDT	On1, On2, Off	Right Angle	—	Teal	Black	12VDC, 300mA	542PB-ND	1.09	.93	.83
7	SPDT	On1, Off, On2	Straight	—	Yellow	Black	14VDC, 500mA	530PB-ND	1.19	1.01	.90
	SPDT	On1, On2, Off	Straight	—	Blue	Black	12VDC, 300mA	543PB-ND	1.09	.93	.83
Flat-Pac Pushbutton Switch											
8	SPST	On, Off	Right Angle	—	Black	Black	14VDC, 2A	514PB-ND	2.19	1.86	1.66
	SPST	On, Off	18AWG	—	Black	Black	14VDC, 2A	515PB-ND	1.87	1.59	1.42

† Without Tactile Feel

Fig. 1

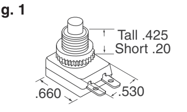

Fig. 2

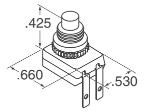

Fig. 3

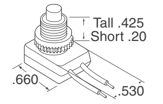

Fig. 4

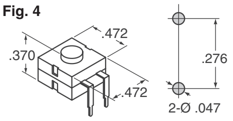

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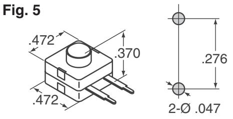

Fig. 6

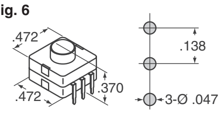

Fig. 7

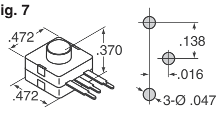

Fig. 8

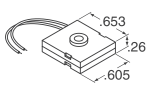

E-SWITCH™ Rocker Switches

RoHS COMPLIANT

Rocker Switches and Paddle Switches for mounting in a round hole instead of a rectangular or square punch. Easy to gang together for panels or consoles. Offered in various switching options with white ink stamping or LED illumination. Red LED-20mA @ 2.0VDC, Green LED-20mA @ 2.4VDC. All switches are black in color.

Dim. in inch (mm)

Fig. 1

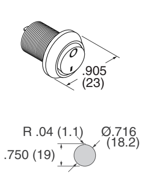

Fig. 2

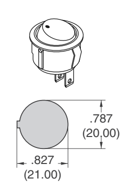

Fig. 3

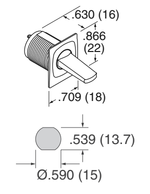

Fig. 4

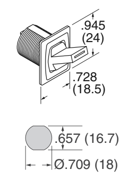

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Rocker Switches						
1	SPST (On-Off) 10A with No Marking	EG4564-ND	3.21	2.89	2.47	RR3130ABLKBLKES
	SPST (On-Off) 10A with I/O Marking	EG1889-ND	3.21	2.89	2.47	RR3130ABLKBLKFS
	DPDT (On-On) 10A with I/O Marking	EG1890-ND	4.82	4.34	3.70	RR3130BBLKBLKFS
	SPDT (On-On) 10A with I/O Marking	EG1891-ND	3.57	3.22	2.74	RR3130CBLKBLKFS
2	SPST (On-Off) 10A Snap-In	EG1542-ND	1.56	1.41	1.20	RR3112ABLKBLKNAFO
Paddle Switches						
3	Mini, SPST (On-Off) 6A	EG1892-ND	2.85	2.57	2.19	RR3402A
	Mini, SPDT (On-On) 6A	EG1893-ND	3.21	2.89	2.47	RR3402C
	Mini, SPDT (On-Off-On) 6A	EG1894-ND	3.48	3.14	2.68	RR3402D
4	Standard, DPST (On-Off) 10A	EG1895-ND	4.20	3.78	3.22	RR3405A
	Red Illum., SPST (On-Off) 10A	EG1896-ND	5.64	5.08	4.33	RR3405ALRED
	Green Illum., SPST (On-Off) 10A	EG1897-ND	5.64	5.08	4.33	RR3405ALGRN
	Red Illum., SPDT (On-On) 10A	EG1898-ND	5.64	5.08	4.33	RR3405CLRED
	Green Illum., SPDT (On-On) 10A	EG1899-ND	5.64	5.08	4.33	RR3405CLGRN

Rocker Switches

RoHS COMPLIANT

RATINGS: • R5 Series: 20A 125V, 15A 250V for circuits A, B, C 15A 125V, 10A 250V for circuit D • R6 Series: 10A 125V, 6A 250V (UL/CSA) **Contact Resistance:** <20mΩ (initial) **Electrical Life:** ≥10,000 Cycle **Approvals:** UL, CSA, VDE, NEMKO, SEMKO, FIMKO, DEMKO

Fig. 1

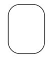

Fig. 2

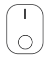

Fig. 3

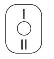

Fig. 4

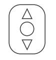

Dim. in inch (mm)

R5 Series

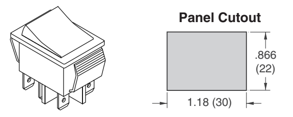

R6 Series

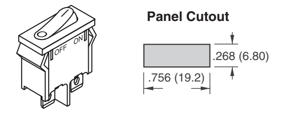

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
R5 Non-Illuminated						
1	DPST, On-Off, 20A Black	EG1527-ND	2.02	1.82	1.56	R5ABLKBLKEF0
1	DPDT, On-On, 20A Black	EG1528-ND	2.52	2.28	1.94	R5CBLKBLKEF0
2	DPST, On-Off, 20A Black	EG1529-ND	2.02	1.82	1.56	R5ABLKBLKFF0
1	DPDT, On-Off-On, 15A Black	EG1539-ND	3.29	2.96	2.53	R5DBLKBLKEF0
3	DPDT, On-Off-On, 15A Black	EG1540-ND	3.29	2.96	2.53	R5DBLKBLKCF0
4	DPDT, On-Off-On, 15A Black	EG1541-ND	3.29	2.96	2.53	R5DBLKBLKHF0
R5 Illuminated						
1	DPST, 125V Red Illum., 20A Black	EG1530-ND	3.29	2.96	2.53	R5BBLKREDEF1
2	DPST, 125V Red Illum., 20A Black	EG1531-ND	3.29	2.96	2.53	R5BBLKREDFF1
1	DPST, 125V Green Illum., 20A Black	EG1533-ND	3.29	2.96	2.53	R5BBLKGRNEF1
2	DPST, 125V Green Illum., 20A Black	EG1534-ND	3.29	2.96	2.53	R5BBLKGRNFF1
2	DPST, 250V Red Illum., 20A Black	EG1535-ND	3.29	2.96	2.53	R5BBLKREDFF2
2	DPST, 250V Green Illum., 20A Black	EG1536-ND	3.29	2.96	2.53	R5BBLKGRNFF2
2	DPST, 12VDC Red Illum., 20A Black	EG1537-ND	3.29	2.96	2.53	R5BBLKREDFF3
2	DPST, 12VDC Green Illum., 20A Black	EG1538-ND	3.29	2.96	2.53	R5BBLKGRNFF3
R6 Mini-Rocker						
1	SPST 10A, Black Without Marking	EG1525-ND	1.87	1.68	1.44	R6ABLKBLKEF
2	SPST 10A, Black With Marking	EG1526-ND	1.87	1.68	1.44	R6ABLKBLKFF

Dimensions in mm

Illuminated Toggle Switches

Fig.	Contact Rating	LED Voltage	Color	Circuit	Operation	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	20A/12VDC	12V	Red	SPST	ON/OFF	67-1882-ND	3.66	3.30	2.81	CLS-TC11A12253R
2	20A/12VDC	12V	Yellow	SPST	ON/OFF	67-1883-ND	3.21	2.89	2.47	CLS-TC11A12252Y
			Red			67-1884-ND	3.21	2.89	2.47	CLS-TC11A12252R
			Green			67-1885-ND	3.21	2.89	2.47	CLS-TC11A12252G
3	20A/12VDC	12V	Yellow	SPST	ON/OFF	67-1886-ND	3.48	3.14	2.67	CLS-TC11A12190Y
			Red			67-1887-ND	3.48	3.14	2.67	CLS-TC11A12190R
4	25A/12VDC	12V	Yellow	SPST	ON/OFF	67-1888-ND	4.77	4.30	3.66	CLS-TS11A12250Y
			Red			67-1889-ND	4.77	4.30	3.66	CLS-TS11A12250R
			Green			67-1890-ND	4.77	4.30	3.66	CLS-TS11A12250G
			Blue			67-1891-ND	8.64	7.78	6.63	CLS-TS11A12250B
5	20A/12VDC	12V	Yellow	SPST	ON/OFF	67-1892-ND	5.61	5.05	4.31	CLS-TC11A12250Y
			Red			67-1893-ND	5.61	5.05	4.31	CLS-TC11A12250R
			Green			67-1894-ND	5.61	5.05	4.31	CLS-TC11A12250G
			Blue			67-1895-ND	9.48	8.54	7.27	CLS-TC11A12250B
6	10A/125VAC	12V	Yellow	SPST	ON/OFF	67-1896-ND	3.48	3.14	2.67	CLS-TO11A125S00Y
			Red			67-1897-ND	3.48	3.14	2.67	CLS-TO11A125S00R
			Green			67-1898-ND	3.48	3.14	2.67	CLS-TO11A125S00G
7	30A/12VDC	12V	Yellow	SPST	ON/OFF	67-1899-ND	5.34	4.81	4.10	CLS-TC11A12251Y
			Red			67-1900-ND	5.34	4.81	4.10	CLS-TC11A12251R
			Green			67-1901-ND	5.34	4.81	4.10	CLS-TC11A12251G
			Blue			67-1902-ND	9.21	8.29	7.07	CLS-TC11A12251B

Fig. 1

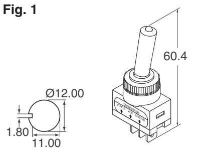

Fig. 2

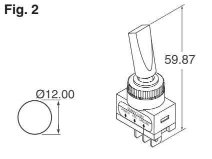

Fig. 3

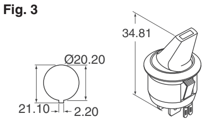

Fig. 4

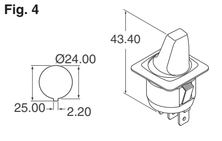

Fig. 5

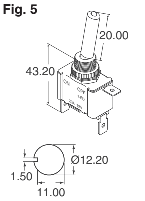

Fig. 6

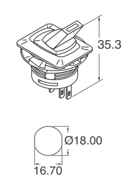

Fig. 7

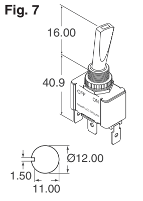

Illuminated Rocker Switches

Fig.	Rating	LED Voltage	Color	Circuit	Operation	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	10A/125VAC	12V	Yellow	SPST	ON/OFF	67-1903-ND	2.58	2.33	1.98	CLS-RR11A125500Y
			Red			67-1904-ND◆	2.58	2.33	1.98	CLS-RR11A125500R
			Green			67-1905-ND	2.58	2.33	1.98	CLS-RR11A125500G
			Blue			67-1906-ND	6.45	5.81	4.95	CLS-RR11A125500B
2	20A/12VDC	12V	Yellow/Green	SPDT	ON/ON	67-1907-ND	4.89	4.41	3.75	CLS-RC12E12190YG
3	10A/125VAC	12V	Yellow	SPST	ON/OFF	67-1908-ND	3.03	2.73	2.33	CLS-RC11A125190Y
			Red			67-1909-ND	3.03	2.73	2.33	CLS-RC11A125190R
			Green			67-1910-ND	3.03	2.73	2.33	CLS-RC11A125190G
			Blue			67-1911-ND	6.45	5.81	4.95	CLS-RC11A125190B
4	30A/12VDC	12V	Yellow	SPST	ON/OFF	67-1912-ND	3.66	3.30	2.81	CLS-RO11A12250Y
			Red			67-1913-ND	3.66	3.30	2.81	CLS-RO11A12250R
			Green			67-1914-ND	3.66	3.30	2.81	CLS-RO11A12250G
			Blue			67-1915-ND	6.45	5.81	4.95	CLS-RO11A12250B
5	10A/125VAC/ 6A/250VAC	12V	Yellow	SPST	ON/OFF	67-1916-ND	3.21	2.89	2.47	CLS-RC11A125191Y
			Red			67-1917-ND	3.21	2.89	2.47	CLS-RC11A125191R
			Green			67-1918-ND	3.21	2.89	2.47	CLS-RC11A125191G
			Blue			67-1919-ND	6.45	5.81	4.95	CLS-RC11A125191B
6	25A/12VDC	12V	Yellow	SPST	ON/OFF	67-1920-ND	4.11	3.70	3.16	CLS-RC11A12250Y
			Red			67-1921-ND	4.11	3.70	3.16	CLS-RC11A12250R
			Green			67-1922-ND	4.11	3.70	3.16	CLS-RC11A12250G
			Blue			67-1923-ND	6.45	5.81	4.95	CLS-RC11A12250B
7	16A/125VAC	12V	Yellow	SPST	ON/OFF	67-1924-ND	3.48	3.14	2.67	CLS-RR11A120250Y
			Red			67-1925-ND	3.48	3.14	2.67	CLS-RR11A120250R
			Green			67-1926-ND	3.48	3.14	2.67	CLS-RR11A120250G
			Blue			67-1927-ND	6.45	5.81	4.95	CLS-RR11A120250B
8	25A/12VDC	12V	Yellow	SPST	ON/OFF	67-1928-ND	3.66	3.30	2.81	CLS-RR11A12250Y
			Red			67-1929-ND	3.66	3.30	2.81	CLS-RR11A12250R
			Green			67-1930-ND	3.66	3.30	2.81	CLS-RR11A12250G
			Blue			67-1931-ND	6.45	5.81	4.95	CLS-RR11A12250B
9	25A/12VDC	12V	Yellow	SPST	ON/OFF	67-1932-ND	1.92	1.73	1.48	CLS-RR11A12251Y
			Red			67-1933-ND	1.92	1.73	1.48	CLS-RR11A12251R
			Green			67-1934-ND	1.92	1.73	1.48	CLS-RR11A12251G
			Blue			67-1935-ND	6.45	5.81	4.95	CLS-RR11A12251B
10	20A/12VDC	12V	Yellow	SPST	ON/OFF	67-1936-ND	1.92	1.73	1.48	CLS-RR11A12252Y
			Red			67-1937-ND	1.92	1.73	1.48	CLS-RR11A12252R
			Green			67-1938-ND	1.92	1.73	1.48	CLS-RR11A12252G
			Blue			67-1939-ND	6.45	5.81	4.95	CLS-RR11A12252B
11	20A/12VDC	12V	Yellow	SPST	ON/OFF	67-1940-ND	3.21	2.89	2.47	CLS-RO11A12251Y
			Red			67-1941-ND	3.21	2.89	2.47	CLS-RO11A12251R
			Green			67-1942-ND	3.21	2.89	2.47	CLS-RO11A12251G
			Blue			67-1943-ND	6.45	5.81	4.95	CLS-RO11A12251B

◆ *RoHS Compliant*

Fig. 1

Panel Cutout		
Thickness	X	Y
0.75~1.25	19.200	13.000
1.25~2.00	19.400	13.000
2.00~3.00	19.800	13.000

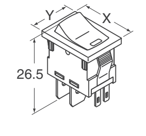

Fig. 2

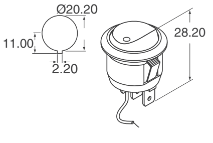

Fig. 3

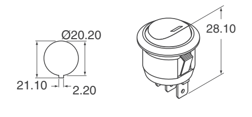

Fig. 4

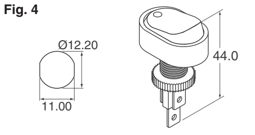

Fig. 5

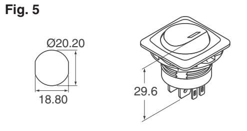

Fig. 6

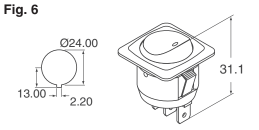

Fig. 7

Panel Cutout		
Thickness	X	Y
0.75~1.25	27.600	13.800
1.25~2.00	27.800	13.800
2.00~3.00	28.000	13.800

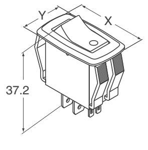

Fig. 8

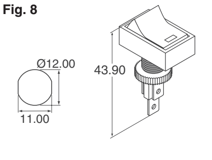

Fig. 9

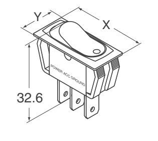

Panel Cutout		
Thickness	X	Y
0.75~1.25	28.500	11.600
1.25~2.00	28.700	11.600
2.00~3.00	29.000	11.600

Fig. 10

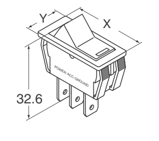

Panel Cutout		
Thickness	X	Y
0.75~1.25	28.500	11.600
1.25~2.00	28.700	11.600
2.00~3.00	29.000	11.600

Fig. 11

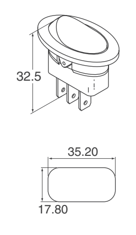

Illuminated Pushbutton Switches

Fig.	Rating	LED Voltage	Color	Circuit	Action	Operation	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	3A/125VAC	12V	Yellow	SPST	ALT/ACT	ON/OFF	67-1944-ND	3.21	2.89	2.47	CLS-PC11A125S01Y
			Red				67-1945-ND	3.21	2.89	2.47	CLS-PC11A125S01R
			Green				67-1946-ND	3.21	2.89	2.47	CLS-PC11A125S01G
			Blue				67-1947-ND	6.45	5.81	4.95	CLS-PC11A125S01B
2	3A/125VAC	12V	Yellow	SPST	MOM	ON/OFF	67-1948-ND	3.48	3.14	2.67	CLS-PC11A125S00Y
			Red				67-1949-ND	3.48	3.14	2.67	CLS-PC11A125S00R
			Green				67-1950-ND	3.48	3.14	2.67	CLS-PC11A125S00G
			Blue				67-1951-ND	6.45	5.81	4.95	CLS-PC11A125S00B

Fig. 1

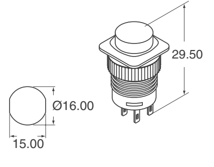

Fig. 2

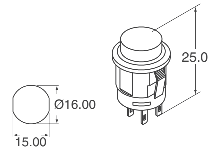

Pushbutton Switches

Fig.	Circuit	Switching Function	Termination	Bushing	Cont. Mat'l.	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			C&K Part No.
								1	25	100	
Tiny Pushbutton Switches											
1	SPST	Off-Mom	C	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN4000-ND	4.53	3.63	2.87	TP11SH9CBE
		Off-Mom	Z	SH	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN4001-ND	4.34	3.48	2.75	TP11SHZQE
		Off-Mom	C	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN4006-ND	4.87	3.90	3.09	EP11SD1CBE
		Off-Mom	C	LT	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1716-ND‡	5.18	4.15	3.29	TP11LTCQE
		Off-Mom	Z	LT	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1717-ND‡	5.03	4.02	3.19	TP11LTZQE
		Off-Mom	C	MS9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1719-ND	4.81	3.85	3.05	TP11MS9CBE
		Off-Mom	V3	MS9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1720-ND	5.34	4.27	3.39	TP11MS9V3BE
		Off-Mom	C	SH8	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1723-ND	4.49	3.60	2.85	TP11SH8CQE
		Off-Mom	V3	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1726-ND	5.06	4.05	3.21	TP11SH9V3BE
		Off-Mom	C	SH	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1728-ND	4.53	3.63	2.87	TP11SHCBE
		Off-Mom	C	SH	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1729-ND	4.49	3.60	2.85	TP11SHCQE
		Off-Mom	Z	SH	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1730-ND	4.37	3.50	2.77	TP11SHZBE
	SPDT	On-Mom	C	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4043-ND	6.34	5.07	4.02	EP12SD1CBE
		On-Mom	Z	SH	Q	.340 x .360 x .340 (8.64 x 9.14 x 8.64)	CKN4053-ND	5.93	4.75	3.76	TP12SHZQE
		On-Mom	C	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1738-ND	6.12	4.90	3.88	TP12SH9CBE
		On-Mom	V3	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1739-ND	6.65	5.32	4.22	TP12SH9V3BE
		On-Mom	C	SH	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1740-ND	6.09	4.87	3.86	TP12SHCQE
	DPST	Off-Mom	C	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4044-ND	9.27	7.42	5.88	EP21SD1CBE
		Off-Mom	A	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4045-ND	10.27	8.22	6.51	EP21SD1ABE
		Off-Mom	Z	SH	Q	.340 x .360 x .340 (8.64 x 9.14 x 8.64)	CKN4054-ND	9.30	7.44	5.89	TP21SHZQE
2	SPST	Off-Mom	A	SH8	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4002-ND	5.12	4.10	3.25	TP11SH8ABE
		Off-Mom	A	SH9	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4003-ND	5.12	4.10	3.25	TP11SH9ABE
		Off-Mom	A	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4007-ND	5.40	4.32	3.42	EP11SD1ABE
		Off-Mom	A	LT9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1715-ND‡	5.81	4.65	3.68	TP11LT9ABE
		Off-Mom	A	MS9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1718-ND	5.40	4.32	3.42	TP11MS9ABE
		Off-Mom	A	SH8	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1721-ND	5.09	4.08	3.23	TP11SH8AQE
		Off-Mom	A	SH	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1727-ND	5.12	4.10	3.25	TP11SHABE
	SPDT	On-Mom	A	SH8	Q	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4004-ND	6.68	5.35	4.23	TP12SH8AQE
		On-Mom	A	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4008-ND	6.87	5.50	4.35	EP12SD1ABE
		On-Mom	A	LT9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1731-ND‡	7.40	5.92	4.69	TP12LT9ABE
		On-Mom	A	MS9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1732-ND	6.99	5.60	4.43	TP12MS9ABE
		On-Mom	A	SH8	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1733-ND	6.71	5.37	4.26	TP12SH8ABE
		On-Mom	A	SH8	G	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1734-ND	7.12	5.70	4.51	TP12SH8AGE
		On-Mom	A	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1735-ND	6.71	5.37	4.26	TP12SH9ABE
		On-Mom	A	SH9	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1736-ND	6.68	5.35	4.23	TP12SH9AQE
	DPST	Off-Mom	A	SH9	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1741-ND	10.61	8.49	6.73	TP21SH9ABE
3	SPST	Off-Mom	AV	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4009-ND	5.65	4.52	3.58	EP11SD1AVBE
		Off-Mom	AV	SH8	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1722-ND	5.12	4.10	3.25	TP11SH8AVBE
		Off-Mom	AV	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1725-ND	5.12	4.10	3.25	TP11SH9AVBE
	SPDT	On-Mom	AV	SH8	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4005-ND	6.71	5.37	4.26	TP12SH8AVBE
		On-Mom	AV	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1737-ND	6.71	5.37	4.26	TP12SH9AVBE
	DPST	Off-Mom	AV	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4046-ND	10.64	8.52	6.75	EP21SD1AVBE
Alternate Action and Momentary Pushbutton Switches											
1	SPDT	On-Mom	C	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4010-ND	9.11	7.30	5.78	8121SHCGE
		On-Mom	Z	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4011-ND	8.96	7.17	5.68	8121SHZGE
		On-Mom	V3	D3	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4012-ND	6.59	5.27	4.18	8125SD3V3BE
		On-Mom	Z	H	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4022-ND	5.90	4.72	3.74	8125SHZBE
		On-Mom	C	H	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4029-ND	6.05	4.85	3.84	8125SHCBE
		On-Mom	C	D1	G	.500 x .260 x .350 (12.70 x 6.60 x 8.89)	CKN4041-ND	9.61	7.69	6.09	E121SD1CGE
		On-Mom	Z	Y	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1611-ND	8.96	7.17	5.68	8121LY4ZGE
		On-Mom	V3	D3	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1612-ND	9.65	7.72	6.11	8121MD3V3GE
		On-Mom	V3	D3	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1613-ND	9.65	7.72	6.11	8121SD3V3GE
		On-Mom	V3	D8	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1614-ND	9.65	7.72	6.11	8121SD8V3GE
		On-Mom	V3	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1619-ND	9.65	7.72	6.11	8121SD9V3GE
		On-Mom	C	D	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1622-ND	9.11	7.30	5.78	8121SDCGE
		On-Mom	Z	D	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1623-ND	8.96	7.17	5.68	8121SDZGE
		On-Mom	Z3	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1626-ND	9.24	7.40	5.86	8121SHZ3GE
		On-Mom	Z	Y4	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1627-ND	8.96	7.17	5.68	8121SY4ZGE
		On-Mom	Z	Y	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1628-ND	8.96	7.17	5.68	8121SYZGE
		On-Mom	V3	D9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1631-ND	6.59	5.27	4.18	8125SD9V3BE
		On-Mom	C	D	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1632-ND	6.05	4.85	3.84	8125SDCBE
		On-Mom	Z	Y	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1633-ND	5.90	4.72	3.74	8125SYZBE
		On-Mom	C	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1642-ND	9.11	7.30	5.78	U811SHCGE
		On-Mom	Z	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1643-ND	8.96	7.17	5.68	U811SHZGE
	DPDT	On-Mom	Z	H	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4023-ND	13.83	11.07	8.76	8221SHZGE
		On-Mom	Z	H	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4024-ND	8.30	6.65	5.26	8225SHZBE
		On-Mom	C	D1	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN4042-ND	15.45	12.36	9.79	E221SD1CGE
		On-Mom	V3	D9	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1635-ND	11.15	9.63	8.11	8221SD9V3GE
		On-Mom	C	D	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1636-ND	14.08	11.27	8.92	8221SDCGE
		On-Mom	C	H	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1637-ND	14.08	11.27	8.92	8221SHCGE
		On-Mom	Z	H	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1644-ND	13.83	11.07	8.76	U821SHZGE
	3PDT	On-Mom	Z	H	G	.500 x .650 x .475 (12.70 x 16.51 x 12.07)	CKN1639-ND	14.90	12.87	10.84	8321SHZGE
	4PDT	On-Mom	Z	H	G	.500 x .850 x .475 (12.70 x 21.59 x 12.07)	CKN1640-ND	18.84	16.27	13.70	8421SHZGE
2	SPDT	On-Mom	A	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4013-ND	9.71	7.77	6.15	8121SD9AGE
		On-Mom	A	D9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4014-ND	6.65	5.32	4.22	8125SD9ABE
		On-Mom	A2	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1615-ND	9.89	7.92	6.27	8121SD9A2GE
		On-Mom	A4	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1616-ND	9.89	7.92	6.27	8121SD9A4GE
		On-Mom	R2	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1617-ND	10.22	8.18	6.48	8121SD9R2GE
		On-Mom	R	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1618-ND	10.21	8.17	6.47	8121SD9RGE
		On-Mom	A	D	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1621-ND	9.71	7.77	6.15	8121SDAGE
		On-Mom	A	H9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1624-ND	9.71	7.77	6.15	8121SH9AGE
		On-Mom	A	D8	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1629-ND	6.65	5.32	4.22	8125SD8ABE
		On-Mom	A	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1641-ND	9.71	7.77	6.15	U811SD9AGE
	DPDT	On-Mom	A	D9	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1634-ND	11.15	9.63	8.11	8221SD9AGE
3	SPDT	On-Mom	AV2	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4015-ND	9.89	7.92	6.27	8121SD9AV2GE
		On-Mom	AV2	D9	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4030-ND	6.83	5.47	4.33	8125SD9AV2BE
		On-Mom	AV2	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1625-ND	9.89	7.92	6.27	8121SHAV2GE
		On-Mom	AV2	D8	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1630-ND	6.83	5.47	4.33	8125SD8AV2BE
	DPDT	On-Mom	AV2	D9	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1638-ND	10.33	8.27	6.55	8225SD9AV2BE
4	SPDT	On-On	Z	H	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4016-ND	6.37	5.10	4.04	8161SHZQE2
		On-Mom	Z	H	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4018-ND	6.37	5.10	4.04	8168LHZQE2
		On-Mom	Z	H	G	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4031-ND	6.80	5.45	4.31	8168SHZGE2
		On-On	Z	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1647-ND	6.80	5.45	4.31	8161SHZGE2
		On-Mom	Z	H	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1649-ND	6.40	5.12	4.06	8168LHZBE2
		On-Mom	Z	H	Q	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1655-ND	6.37	5.10	4.04	8168SHZQE2
	DPDT	On-On	Z	H	G	.500 x .450 x .450 (12.70 x 11.43 x 11.43)	CKN4032-ND	13.08	10.47	8.29	8261SHZGE2
		On-On	Z	H	Q	.500 x .450 x .450 (12.70 x 11.43 x 11.43)	CKN1656-ND	11.58	9.27	7.34	8261SHZQE2
5	SPDT	On-On	A	H9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1646-ND	7.15	5.72	4.53	8161SH9ABE2
		On-Mom	A	H9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1648-ND	7.15	5.72	4.53	8168LH9ABE2
		On-Mom	A	H9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1650-ND	7.15	5.72	4.53	8168SH9ABE2
		On-Mom	A	H9	Q	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1651-ND	7.12	5.70	4.51	8168SH9AQE2
		On-Mom	A	H	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1653-ND	7.15	5.72	4.53	8168SHABE2
		On-Mom	A	H	Q	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1654-ND	7.12	5.70	4.51	8168SHAQE2
6	SPDT	On-Mom	AV2	H9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1652-ND	7.34	5.87	4.65	8168SH9AV2BE2

Contact Materials Options

B	**Contacts and Terminals:** Copper alloy, with gold plate over nickel plate **Rating:** 0.4 VA maximum @ 20VAC or DC maximum
K	**Contacts and Terminals:** Copper alloy, with gold plate over nickel plate **Terminals:** Copper alloy, with tin-lead alloy over nickel plate **Rating:** 0.4 VA maximum @ 20VAC or DC maximum
Q	**Contacts:** Coin silver, silver plated **Terminals:** Copper alloy, silver plated **Rating:** 1A @ 120 VAC; *8060 Series* — 6A @ 120VAC or 3A @ 250VAC; *8500 Series* — 1A @ 120VAC.
G	**Contacts:** Coin silver, with gold plate over nickel plate **Terminals:** Copper alloy, with gold plate over nickel plate **Rating:** 0.4 VA maximum @ 20VAC or DC maximum or 1A @ 120VAC or 28VDC.
P	**Contacts:** Gold, matte-tin **Terminals:** Copper alloy, with matte tin over nickel plate **Ratings:** 0.4VA maximum @ 20 VAC or DC maximum

Fig. 1

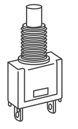

Fig. 2

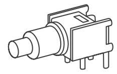

Fig. 3

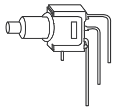

Fig. 4

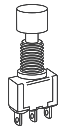

Comes standard with black cap

Fig. 5

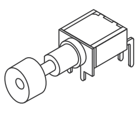

Fig. 6

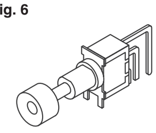

Fig. 7

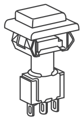

Fig. 8

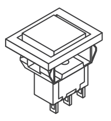

Fig. 9

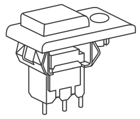

Fig. 10

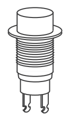

Fig. 11

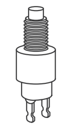

Fig. 12

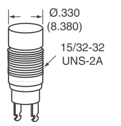

Termination Options

A / A2
A4 (reversed term.)

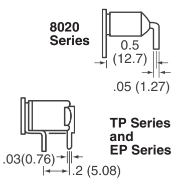

AV

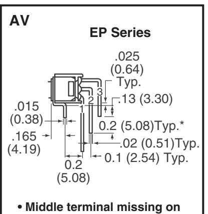

- **Middle terminal missing on CKN4009-ND**

AV2

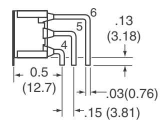

C

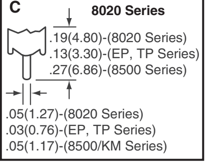

*Red LED ‡ .120 Diameter Plunger

(Continued)

C&K Pushbutton Switches *(Cont.)*

Fig.	Circuit	Switching Function	Termi-nation	Bushing	Cont. Mat'l.	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Snap-In With Black Frame											
7	SPST	Off-Mom	Z	Wht Cap	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1609-ND	5.71	4.57	3.62	TP11J81ZBE12
		Off-Mom	Z	Blk Cap	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1610-ND	5.68	4.55	3.60	TP11J81ZQE22
	SPDT	Off-Mom	X	—	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1657-ND	6.21	4.97	3.94	8531J81ZQE22
		On-Mom	Z	Wht Cap	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1597-ND*	10.21	8.17	6.47	8121J81ZGE12
		On-Mom	Z	Blk Cap	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4025-ND	10.21	8.17	6.47	8121J81ZGE22
		On-Mom	Z	Blk Cap	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1599-ND	10.21	8.17	6.47	8121J83ZGE22
		On-Mom	Z3	Blk Cap	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1601-ND	7.43	5.95	4.71	8125J81Z3BE22
		On-Mom	Z	Blk Cap	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4026-ND	7.15	5.72	4.53	8125J81ZBE22
		On-Mom	Z	Blk Cap	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1603-ND	7.15	5.72	4.53	8125J83ZBE22
		On-On	Z	Blk Cap	G	.500 x .270 x .430 (12.70 x 6.86 x 10.92)	CKN4033-ND	8.52	6.82	5.40	8161J81ZGE22
		On-On	Z	Blk Cap	Q	.500 x .270 x .430 (12.70 x 6.86 x 10.92)	CKN1604-ND	8.09	6.47	5.13	8161J81ZQE22
		On-Mom	Z	Blk Cap	B	.500 x .270 x .430 (12.70 x 6.86 x 10.92)	CKN1607-ND	8.12	6.50	5.14	8168J81ZBE22
		On-Mom	Z	Blk Cap	G	.500 x .270 x .430 (12.70 x 6.86 x 10.92)	CKN4034-ND	8.52	6.82	5.40	8168J81ZGE22
		On-Mom	Z	Blk Cap	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4017-ND	8.09	6.47	5.13	8168J81ZQE22
	DPDT	On-Mom	Z	Blk Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4027-ND	15.08	12.06	9.55	8221J81ZGE22
		On-Mom	Z	Blk Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1608-ND	11.06	9.55	8.04	8221J83ZGE22
		On-Mom	Z	Blk Cap	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4028-ND	9.55	7.65	6.05	8225J81ZBE22
		On-On	Z	Blk Cap	G	.500 x .450 x .450 (12.70 x 11.43 x 11.43)	CKN4035-ND	14.79	11.84	9.37	8261J81ZGE22
8	SPDT	On-Mom	Z	Blk Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1600-ND*	10.23	8.84	7.45	8121J85ZGE223
		On-On	Z	Blk Cap	G	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN1605-ND*	11.99	9.59	7.60	8161J86ZGE223
		On-On	Z	Blk Cap	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN1606-ND*	11.55	9.24	7.32	8161J86ZQE223
9	SPDT	On-Mom	Z	Blk Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1598-ND	10.40	8.32	6.59	8121J82ZGE22
		On-Mom	Z	Blk Cap	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1602-ND	7.34	5.87	4.65	8125J82ZBE22
Subminiature Pushbutton Switches											
10	SPST	Off-Mom	X	Blk Cap	Q	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1121-ND	5.59	4.47	3.54	8532T1ZQE2
		Off-Mom	X	Blk Cap	B	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1122-ND	5.59	4.47	3.54	8532T1ZBE2
		Off-Mom	X	Red Cap	Q	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1123-ND	6.05	4.85	3.84	8532T1ZQE3
		Off-Mom	X	Red Cap	B	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1124-ND	6.05	4.85	3.84	8532T1ZBE3
		Off-Mom	X	Wht Cap	Q	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1222-ND	5.62	4.50	3.56	8532T1ZQE1
		Off-Mom	X	Wht Cap	B	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1223-ND	5.62	4.50	3.56	8532T1ZBE1
		Off-Mom	C	Blk Cap	B	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1666-ND	5.74	4.60	3.64	8532T1CBE2
11	SPST	Off-Mom	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4036-ND	4.81	3.85	3.05	8531MCQE2
		On-Mom	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4037-ND	5.37	4.30	3.40	8533MCQE2
		On-Mom	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN1389-ND	5.21	4.17	3.31	8533MZQE2
		On-Mom	C	H	B	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN1390-ND	5.21	4.17	3.31	8533MZBE2
		Off-Mom	X	8-40 uns	Q	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN4038-ND	5.68	4.55	3.60	8631ZQD2
		Off-Mom	X	8-40 uns	B	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN4039-ND	5.68	4.55	3.60	8631ZBD2
		Off-Mom	C	8-40 uns	B	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN4040-ND	5.84	4.68	3.70	8631CBD2
		Off-Mom	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4019-ND	4.81	3.85	3.05	8531SCQE2
		Off-Mom	X	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4020-ND	4.65	3.72	2.95	8531MZQE2
		Off-Mom	X	H	Q	.315 x .375 Dia. (8.00 x 9.53 Dia.)	CKN4021-ND	4.65	3.72	2.95	8532MZQE2
		Off-Mom	05	H	B	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4057-ND	3.74	3.00	2.38	KM1101RR05B
		Off-Mom	05	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4058-ND	2.72	2.18	1.72	KM1101RR05Q
		Off-Mom	C	H	B	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4059-ND	3.74	3.00	2.38	KM1101RR02B
		Off-Mom	C	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4060-ND	2.72	2.18	1.72	KM1101RR02Q
		Off-Mom	C	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN1714-ND	3.28	2.63	2.08	KM1101RR02QE
		On-Mom	05	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4064-ND	2.72	2.18	1.72	KM3301RR05Q
		Off-Mom	X	S	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1658-ND	4.65	3.72	2.95	8531SZQE2
		Off-Mom	C	M	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1662-ND	4.81	3.85	3.05	8532MCQE2
		Off-Mom	X	M	B	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1663-ND	4.65	3.72	2.95	8532MZBE2
		Off-Mom	X	M	G	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1664-ND	5.06	4.05	3.21	8532MZGE2
		Off-Mom	X	S	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1665-ND	4.65	3.72	2.95	8532SZQE2
		On Mom	C	M	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1669-ND	5.37	4.30	3.40	8534MCQE2
		On Mom	X	M	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1670-ND	5.21	4.17	3.31	8534MZQE2
		Off-Mom	X	M	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1672-ND	4.65	3.72	2.95	8551MZQE2
		Off-Mom	C	8-40 uns	G	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN1675-ND	6.24	5.00	3.96	8631CGD2
		Off-Mom	C	8-40 uns	Q	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN1676-ND	5.84	4.68	3.70	8631CQD2
		Off-Mom	C	8-40 uns	B	.355 x .250 Dia. (9.02 x 6.35 Dia.)	CKN1677-ND	5.84	4.68	3.70	8632CBD2
		Off-Mom	C	8-40 uns	Q	.355 x .250 Dia. (9.02 x 6.35 Dia.)	CKN1678-ND	5.84	4.68	3.70	8632CQD2
		Off-Mom	X	8-40 uns	B	.355 x .250 Dia. (9.02 x 6.35 Dia.)	CKN1679-ND	5.68	4.55	3.60	8632ZBD2
		Off-Mom	X	8-40 uns	Q	.355 x .250 Dia. (9.02 x 6.35 Dia.)	CKN1680-ND	5.68	4.55	3.60	8632ZQD2
		On-Mom	X	8-40 uns	Q	.345 x .250 Dia. (8.76 x 6.35 Dia.)	CKN1681-ND	6.21	4.97	3.94	8633ZQE2
12	SPST	Off-Mom	C	T	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1659-ND	5.74	4.60	3.64	8531TCQE2
		Off-Mom	X	T	B	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1660-ND	5.59	4.47	3.54	8531TZBE2
		Off-Mom	X	T	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1661-ND	5.59	4.47	3.54	8531TZQE2
		Off-Mom	C	T	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1667-ND	5.74	4.60	3.64	8532TCQE2
		Off-Mom	X	T	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1668-ND	5.59	4.47	3.54	8532TZQE2
		On Mom	X	T	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1671-ND	6.15	4.92	3.90	8534TZQE2
		Off-Mom	X	T	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1673-ND	5.59	4.47	3.54	8551TZQE2
		Off-Mom	X	T	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1674-ND	5.59	4.47	3.54	8552TZQE2
Process Sealed Momentary Pushbutton Switches											
1	SPST	Mom	C	D1	Q	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1702-ND	4.87	3.90	3.09	EP11SD1CQE
		Mom	V3	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1703-ND	5.40	4.32	3.42	EP11SD1V3BE
		Mom	W	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1704-ND	5.18	4.15	3.29	EP11SD1WBE
	SPDT	On-Mom	C	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1684-ND	6.96	5.57	4.41	E112SD1CBE
		On-Mom	C	D1	Q	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1685-ND	6.96	5.57	4.41	E112SD1CQE
		On-Mom	V3	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1686-ND	8.18	6.55	5.18	E112SD1V3BE
		On-Mom	Z	Y	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1687-ND	6.83	5.47	4.33	E112SYZBE
		On-Mom	V3	D1	G	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1690-ND	10.83	8.67	6.86	E121SD1V3GE
		On-Mom	V3	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1693-ND	7.90	6.32	5.01	E125SD1V3BE
		On-Mom	C	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1708-ND	6.34	5.07	4.02	EP12FPD1CBE
		On-Mom	V3	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1712-ND	6.87	5.50	4.35	EP12SD1V3BE
2	SPST	Mom	A	D1	P	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN9129-ND	5.63	4.51	3.57	EP11FPD1APE
		Mom	A	D1	G	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1698-ND	5.84	4.68	3.70	EP11SD1AGE
		Mom	A	D1	P	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN9134-ND	5.63	4.51	3.57	EP11SD1APE
		Mom	A	D1	Q	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1700-ND	5.40	4.32	3.42	EP11SD1AQE
		Mom	A	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1695-ND	5.40	4.32	3.42	EP11FPD1ABE
	SPDT	On-Mom	A	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1682-ND	7.55	6.05	4.79	E112SD1ABE
		On-Mom	A	D1	G	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1688-ND	10.21	8.17	6.47	E121SD1AGE
		On-Mom	A	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1691-ND	7.27	5.82	4.61	E125SD1ABE
		On-Mom	A	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1705-ND	6.87	5.50	4.35	EP12FPD1ABE
		On-Mom	A	D1	G	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1709-ND	7.31	5.85	4.63	EP12SD1AGE
3	SPST	Mom	AV	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1697-ND	5.65	4.52	3.58	EP11FPD1AVBE
		Mom	AV	D1	P	.320 x .245 x .350 (8.13 x 6.22 x 8.89)	CKN9128-ND	5.87	4.70	3.73	EP11SD1AVPE
	SPDT	On-Mom	AV2	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1683-ND	7.74	6.20	4.91	E112SD1AV2BE
		On-Mom	AV2	D1	G	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1689-ND	10.40	8.32	6.59	E121SD1AV2GE
		On-Mom	AV2	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1692-ND	7.46	5.97	4.73	E125SD1AV2BE
		On-Mom	AV	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1707-ND	7.12	5.70	4.51	EP12FPD1AVBE
		On-Mom	AV	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1711-ND	7.12	5.70	4.51	EP12SD1AVBE
	DPDT	On-Mom	AV2	D1	G	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	CKN1694-ND	12.16	10.50	8.84	E221SD1AV2GE
Female Connector for Z3 Terminals							CKN1645-ND	.47	.38	.30	530100000

Termination Options *(Cont.)*

R
R2 (reversed term.)

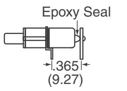

V3

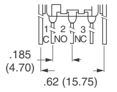

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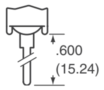

X

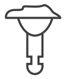

Solder Lug

Z

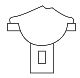

Solder Eyelet

Z3

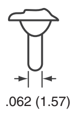

05

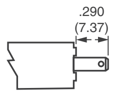

Bushing Options

Threaded bushings include hardware

D

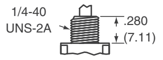

D1 (Unthreaded)

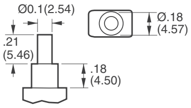

D3 (Unthreaded)

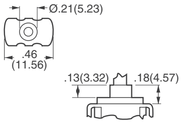

D8 (Unthreaded)

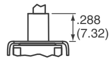

D9 (Unthreaded, flat)

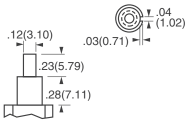

LT
LT9 (unthreaded)

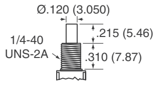

H 1/4-40 NS
H9 (Unthreaded)
SH 10-48UNS-2A

SH8 (Unthreaded .1870)
SH9 (Unthreaded Flat)

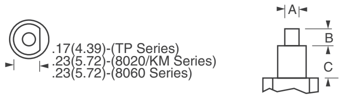

Bushing Option	ITT Ind. Series	Dimensions – Inch (mm) A	B	C
H, H9	TP	.100 (2.54)	.139 (3.53)	.220 (5.59)
H, H9	8020	.122 (3.10)	.218 (5.54)	.250 (6.35)
H, H9	8060	.122 (3.10)	.280 (7.11)	.300 (7.62)
SH, SH9	TP	.100 (2.54)	.155 (3.94)	.220 (5.59)

M

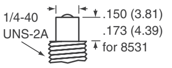

MS9

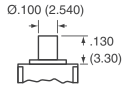

S

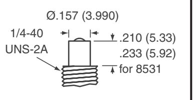

T

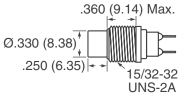

Y

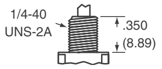

Y4

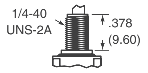

*Red LED ‡ .120 Diameter Plunger

Switch Products

F Series Pushbutton Switches

Essential features of the F pushbutton switch are the bridge contact which is spring loaded, guaranteeing constant pressure on the contacts. **Travel:** 4.7/3.3mm **Operating Force:** 650 grams **Switching:** Voltage Maximum: 125VAC/30VDC (silver), 50VAC/30VDC (gold), Current Maximum: 0.5A (silver), 0.4VA (gold) **Contact Resistance:** 10 - 20mΩ **Contact Material:** Silver or Gold **Operating Temperature:** -40°C ~ 70°C

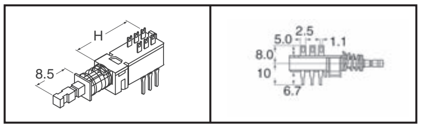

Circuit	Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
DPDT	Alt Act., 650gF, .5A, PCB-Mnt, Silver Plating	21	401-1223-ND	1.74	1.39	1.11	F2UEE
	Alt Act., 650gF, .4VA, PCB-Mnt, Gold Plating	21	401-1224-ND	4.54	3.63	2.88	F2UEE AU
	Mom., 650gF, .5A, PCB-Mnt, Silver Plating	21	401-1225-ND	1.72	1.38	1.09	F2UOA
4PDT	Alt Act., 650gF, .5A, PCB-Mnt, Silver Plating	33	401-1226-ND	3.02	2.42	1.92	F4UEE
	Alt Act., 650gF, .4VA, PCB-Mnt, Gold Plating	33	401-1227-ND	8.58	6.87	5.44	F4UEE AU
	Mom., 650gF, .5A, PCB-Mnt, Silver Plating	33	401-1228-ND	2.95	2.37	1.87	F4UOA

PHA Series Pushbutton Switches

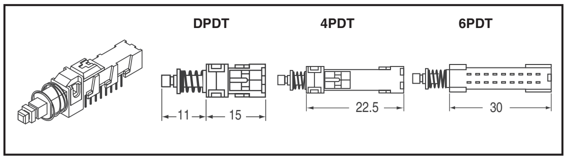

Small dimensions make it the ideal choice for today's demanding switch requirements. Non-shorting contacts.

Switching: Voltage Maximum: 30VDC, Current Maximum: 100mA DC

Operating Life: 10^4 operations

Contact Resistance: 20mΩ

Operating Temperature: -10°C ~ 60°C

Circuit	Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
DPDT	Alternate Action, 170gF	401-1192-ND	1.22	.98	.78	PHA2UEE
	Momentary Action, 170gF	401-1195-ND	1.05	.85	.67	PHA2UOA
4PDT	Alternate Action, 170gF	401-1193-ND	1.63	1.31	1.04	PHA4UEE
	Momentary Action, 170gF	401-1196-ND	1.52	1.22	.97	PHA4UOA
6PDT	Alternate Action, 170gF	401-1194-ND	2.26	1.81	1.43	PHA6UEE
	Momentary Action, 170gF	401-1197-ND	2.17	1.74	1.38	PHA6UOA

PN Series Pushbutton Switches

Fig. 1

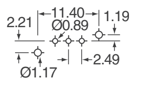

Fig. 2

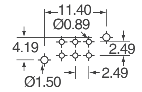

Fig. 3

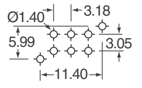

Fig. 4

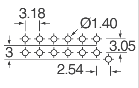

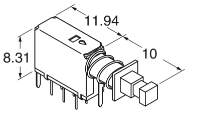

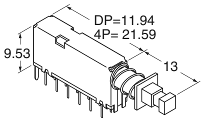

Specifications: • **Contact Rating:** 0.2 Amp @ 30VDC maximum • **Electrical Life:** 10,000 Make-and-Break Cycles at Full Load • **Operating/Storage Temperature:** -10°C ~ 60°C. ***Materials:*** • **Frame:** Tin Plated Steel • **Terminals:** Silver Plated Brass • **Movable Contacts:** Silver Plated (or Clad) Phosphor Bronze • **Terminal Seal:** Epoxy

Fig.	Circuit	Description	Digi-Key Part No.	Price Each 1	100	500	C&K Part No.
1	SPDT	Momentary, 230 gf, Nonshorting	CKN1188-ND*	.71	.61	.54	PN11SHNA03QE
		Alt. Action, 230 gf, Nonshorting	CKN1189-ND*	.77	.67	.58	PN12SHNA03QE
2	DPDT	Momentary, 330gf, Nonshorting	CKN1190-ND*	.84	.73	.63	PN21SJNA03QE
		Alt. Action, 330gf, Nonshorting	CKN1191-ND*	.86	.76	.66	PN22SJNA03QE
3	DPDT	Momentary, 300gf, Nonshorting	CKN1192-ND†	.83	.72	.62	PN21LENA03QE
		Alt. Action, 300gf, Nonshorting	CKN1193-ND†	.87	.77	.66	PN22LENA03QE
4	4PDT	Momentary, 300gf, Nonshorting	CKN1194-ND†	1.00	.85	.75	PN41LENA02QE
		Alt. Action, 300gf, Nonshorting	CKN1195-ND†	1.11	.94	.83	PN42LENA02QE

* Use PHA caps † Use PVA caps

Switch Caps

Switch Caps for F and NE18 Series

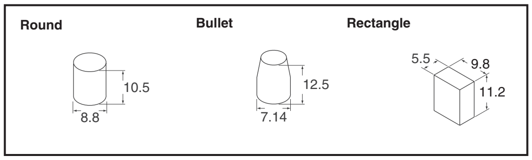

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Switch Caps for F Series and NE18 Series					
Round, Black, 8.8mm Diameter	401-1215-ND	.46	.37	.29	F0201
Round, Grey, 8.8mm Diameter	401-1217-ND	.51	.41	.33	FG/GY
Round, Red, 8.8mm Diameter	401-1218-ND	.48	.39	.31	FG/RD
Round, White, 8.8mm Diameter	401-1216-ND	.48	.39	.31	F0202
Bullet, Black, 7mm Diameter	401-1212-ND	.45	.36	.29	F0101
Bullet, Grey, 7mm Diameter	401-1214-ND	.47	.38	.30	FMR GY
Bullet, White, 7mm Diameter	401-1213-ND	.47	.38	.30	FMR/WHT
Rectangle, Black, 9.8 x 5.5mm	401-1219-ND	.44	.36	.29	FSC/BK
Rectangle, Grey, 9.8 x 5.5mm	401-1221-ND	.50	.41	.32	FSC/GY
Rectangle, Red, 9.8 x 5.5mm	401-1222-ND	.52	.42	.33	FSC/RD
Rectangle, White, 9.8 x 5.5mm	401-1220-ND	.48	.39	.31	FSC/WHT

Switch Caps for PHA Series

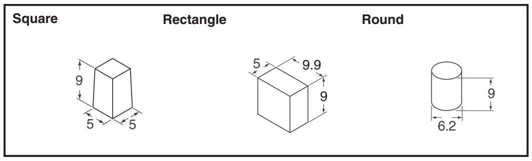

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Switch Caps for PHA Series					
Square, Indexed, Black, 5mm sq. x 9mm(H)	401-1198-ND	.42	.34	.27	G001A
Square, Indexed, Grey, 5mm sq. x 9mm (H)	401-1199-ND	.43	.35	.28	G001G
Square, Indexed, Red, 5mm sq. x 9mm (H)	401-1200-ND	.43	.35	.27	G001R
Rectangle, Black, 5mm(W) x 10mm(L)	401-1201-ND	.48	.39	.31	G002A
Rectangle, Grey, 5mm(W) x 10mm(L)	401-1202-ND	.48	.39	.31	G002G
Rectangle, Red, 5mm(W) x 10mm(L)	401-1203-ND	.49	.40	.31	G002R
Round, Black, 6.2mm Dia.	401-1204-ND	.48	.39	.31	G003A
Round, Blue, 6.2mm Dia.	401-1207-ND	.49	.39	.31	G003B
Round, Grey, 6.2mm Dia.	401-1205-ND	.48	.39	.31	G003G
Round, Red, 6.2mm Dia.	401-1206-ND	.48	.39	.31	G003R

ELUM Pushbutton Switch

Features: • Low height above PCB • Reliable self-cleaning contact • Central LED illumination • Long travel • Smooth feel **Materials:** • Fixed Contacts and Terminals: Stainless steel, silver plated with gold flash • Movable Contacts: Copper alloy, silver plated with gold flash • Base: Glass filled LCP (UL94V-0) • Actuator: Glass filled nylon 4/6 (UL94V-0) • Cover: Stainless steel **Electrical:** • Maximum Voltage: 50VDC • Maximum Current: 250mA **Mechanical:** • Operating Force: 250gF **Operating Environment:** • Operating Temperature: -40°C ~ 85°C • Operating Life: 30,000 Cycles

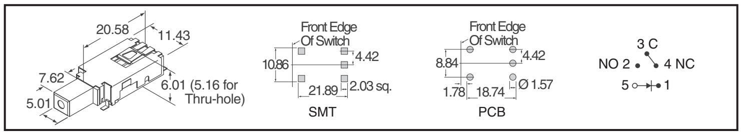

Terminal	LED Color	Maximum LED Intensity (mcd)†	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Illuminated Momentary Pushbuttons							
PCB	None	N/A	CKN9027-ND	4.94	3.96	3.13	ELUMOATHQC02
	Red	8	CKN9028-ND	5.90	4.72	3.74	ELUMOATHQ3C12
	Green	50	CKN9029-ND	5.90	4.72	3.74	ELUMOATHQ6C12
	Blue	1,500	CKN9030-ND	6.14	4.92	3.89	ELUMOATHQ7C12
	Green/Red	20	CKN9031-ND	5.37	4.30	3.41	ELUMOATHQ9C12
SMT	Red	8	CKN9032CT-ND	5.98	5.16	4.15	ELUMOASAQ3C12
			CKN9032TR-ND*		1754.46/450		ELUMOASAQ3C12
SMT	Green	50	CKN9033CT-ND	5.98	5.16	4.15	ELUMOASAQ6C12
			CKN9033TR-ND*		1754.46/450		ELUMOASAQ6C12
SMT	Blue	1,500	CKN9034CT-ND	7.30	6.29	5.06	ELUMOASAQ7C12
			CKN9034TR-ND*		1617.12/400		ELUMOASAQ7C12
SMT	Green/Red	20	CKN9035CT-ND	6.37	5.49	4.41	ELUMOASAQ2C12

Terminal	LED Color	Maximum LED Intensity (mcd)†	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Illuminated Latching Pushbuttons							
PCB	None	N/A	CKN9036-ND	5.20	4.17	3.30	ELUMEETHQC02
	White	5,000	CKN9037-ND	6.94	5.56	4.40	ELUMEETHQ1C12
	Red	8	CKN9038-ND	6.16	4.93	3.91	ELUMEETHQ3C12
	Amber	50	CKN9039-ND	6.17	4.94	3.91	ELUMEETHQ5C12
	Green	50	CKN9040-ND	6.16	4.93	3.91	ELUMEETHQ6C12
	Blue	1,500	CKN9041-ND	6.40	5.13	4.06	ELUMEETHQ7C12
	Amber/Green	10	CKN9042-ND	6.60	5.28	4.18	ELUMEETHQ8C12
	Green/Red	20	CKN9043-ND	5.60	4.48	3.55	ELUMEETHQ2C12
SMT	Red	8	CKN9044CT-ND	6.23	5.37	4.32	ELUMEESAQ3C12
			CKN9044TR-ND*		1825.74/450		ELUMEESAQ3C12
SMT	Green	50	CKN9045CT-ND	7.33	6.32	5.08	ELUMEESAQ6C12
			CKN9045TR-ND*		1825.74/450		ELUMEESAQ6C12
SMT	Blue	1,500	CKN9046CT-ND	6.45	5.56	4.47	ELUMEESAQ7C12
			CKN9046TR-ND*		1890.54/450		ELUMEESAQ7C12
SMT	Green/Red	20	CKN9047CT-ND	6.61	5.70	4.58	ELUMEESAQ9C12
			CKN9047TR-ND*		1648.35/450		ELUMEESAQ9C12

* Tape and Reel † LED Forward Current: 20 mA LED Forward Voltage: 2.0 V Typical

C&K

Pushbutton Switches

Fig. 1

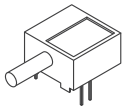

Fig. 2

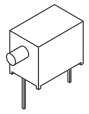

Fig. 3

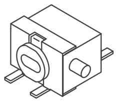

Fig. 4

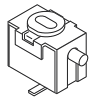

Fig. 5

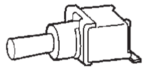

Fig.	Circuit	Switching Function	Termination	Contact Material	Dimensions Inch (mm) L x W x D	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Subminiature Pushbutton Switches — RoHS Compliant										
1	SPDT	Off-Mom	PCB	B	.52 x .54 x .385 (13.21 x 13.72 x 9.78)	CKN4062-ND	5.30	4.24	3.36	KM1202A08BE
	SPDT	Off-Mom	PCB	Q	.52 x .54 x .385 (13.21 x 13.72 x 9.78)	CKN4061-ND	3.98	3.19	2.52	KM1202A08QE

Contact Materials

B Contacts & Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4VA maximum @ 20VAC or DC maximum

Q Contacts: Coin silver, silver plated. Terminals: Copper alloy, silver plated. Rating: 1A @ 120VAC

Fig.	Circuit	Switching Function	Actuator Height Inch (mm)	Terminals	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 600	C&K Part No.
Ultra-Miniature Pushbutton Switches (Washable)											
2	SPST	Off-Mom	.078 (1.98)	PC Mount	CKN9056-ND◆	5.81	4.65	3.68	—	—	GP11MCBE
	SPST	Off-Mom	.078 (1.98)	PC Mount	CKN9055-ND◆	6.59	5.28	4.18	—	—	GP11MABE
	SPDT	On-Mom	.078 (1.98)	PC Mount	CKN9060-ND◆	6.37	5.10	4.04	—	—	GP12MCBE
3	SPDT	On-Mom	.078 (1.98)	Gull Lead	CKN9062CT-ND◆	6.76	5.83	4.68	CKN9062TR-ND◆	2245.32	GP12MSCBE(T&R)
	SPST	Off-Mom	.078 (1.98)	Gull Lead	CKN9058CT-ND◆	6.95	5.99	4.82	CKN9058TR-ND◆	2309.04	GP11MSABE
	SPDT	On-Mom	.078 (1.98)	Gull Lead	CKN9061CT-ND◆	7.53	6.49	5.22	CKN9061TR-ND◆	2501.28	GP12MSABE(T&R)
	SPST	Off-Mom	.078 (1.98)	Gull Lead	CKN9057CT-ND◆	8.27	7.13	5.73	CKN9057TR-ND◆	2747.52	GP11MSA1BE
4	SPST	Off-Mom	.058 (1.47)	Gull Lead	CKN9059CT-ND◆	8.68	7.49	6.02	CKN9059TR-ND◆	2885.76	GP11MSV1BE
	SPDT	On-Mom	.058 (1.47)	Gull Lead	CKN4080CT-ND	9.11	7.85	6.31	—	—	GP12MSV1KE
	SPDT	On-Mom	.058 (1.47)	Gull Lead	CKN9063CT-ND◆	9.20	7.93	6.37	CKN9063TR-ND◆	3057.48	GP12MSV1BE
Surface Mount (Process Sealed, Washable) — RoHS Compliant											
5	SPST	Off-Mom	.215 (5.46)	Gull Lead	CKN9052CT-ND	6.05	5.22	4.20	CKN9052TR-ND	2012.04	EP11SD1SAPE(T&R)
	SPDT	On-Mom	.215 (5.46)	Gull Lead	CKN9054CT-ND	7.45	6.42	5.16	CKN9054TR-ND	2474.28	EP12SD1SAPE(T&R)
	SPST	Off-Mom	Flush	Gull Lead	CKN9051CT-ND	6.05	5.22	4.20	CKN9051TR-ND	2012.04	EP11FPD1SAPE(T&R)
	SPDT	On-Mom	Flush	Gull Lead	CKN9053CT-ND	7.45	6.42	5.16	CKN9053TR-ND	2474.28	EP12FPD1SAPE

◆ ***RoHS Compliant***

Pushbutton Switch Accessories

Cap Color	Cap Diameter Inch (mm)	Cap Height - Dim. A Inch (mm)	Plunger Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Fig. 1 — Pushbutton Caps for 8X2X, 8X6X, EX1X, EX2X, KM11, TP and L								
White Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1103-ND	.76	.61	.48	752701000
Black Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1104-ND	.47	.38	.30	752702000
Red Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1105-ND	.75	.60	.48	752703000s
Green Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1108-ND	.57	.46	.37	752706000
Blue Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1109-ND	.56	.46	.36	752707000
White Gloss	.310 (7.87)	.250 (6.35)	.122 (3.10)	CKN1397-ND	1.00	.80	.64	801801000
Black Gloss	.310 (7.87)	.250 (6.35)	.122 (3.10)	CKN1398-ND	.47	.38	.30	801802000
Red Gloss	.310 (7.87)	.250 (6.35)	.122 (3.10)	CKN1399-ND	1.00	.80	.64	801803000
White Gloss	.200 (5.08)	.155 (3.94)	.122 (3.10)	CKN1394-ND	.75	.60	.48	708901000
Black Gloss	.200 (5.08)	.155 (3.94)	.122 (3.10)	CKN1395-ND	.44	.36	.28	708902000
Red Gloss	.200 (5.08)	.155 (3.94)	.122 (3.10)	CKN1396-ND	.75	.60	.48	708903000
Fig. 2 — Pushbutton Caps EP, TP Series								
White Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1112-ND	.88	.71	.56	465801000
Black Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1113-ND	.50	.40	.32	465802000
Red Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1114-ND	.87	.70	.56	465803000
Orange Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1115-ND	.84	.68	.54	465804000
Yellow Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1116-ND	1.16	.93	.74	465805000
Green Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1117-ND	1.14	.92	.73	465806000
Black Gloss	.200 (5.08)	.155 (3.94)	.100 (2.54)	CKN1748-ND	.94	.75	.60	508102000
Red Gloss	.200 (5.08)	.155 (3.94)	.100 (2.54)	CKN1749-ND	.94	.75	.60	508103000
Black Gloss	.200 (5.08)	.155 (3.94)	.100 (2.54)	CKN1751-ND*	1.01	.81	.64	538702000
Pushbutton Caps For Snap-Fitting Actuators								
White Gloss	.395 (10.03)	.325 (8.26)	.122 (3.10)	CKN1209-ND	2.77	2.22	1.76	894101000
Black Gloss	.395 (10.03)	.325 (8.26)	.122 (3.10)	CKN1210-ND	1.00	.80	.64	894102000
Red Gloss	.395 (10.03)	.325 (8.26)	.122 (3.10)	CKN1211-ND	2.77	2.22	1.76	894103000
Fig. 3 — Square Pushbutton Caps 8020, 8060, E010, E020, KM11, L, and TP								
Black Gloss	.450 (11.43)	.240 (6.10)	.122 (3.10)	CKN1757-ND	.69	.55	.44	798202263

* Recommended for MS9 plunger

Fig. 1 — Series 8X2X, 8X6X, EX1X, EX2X, KM11, TP and L

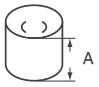

Fig. 2 — Series EP, TP

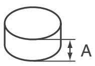

Fig. 3 — Series 8020, 8060, E010, E020, KM11, L, TP

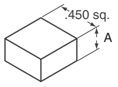

Switch Accessories – Snap-in Frames

Fig. 1

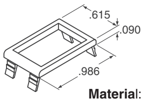

Material: Black Nylon

Fig. 2

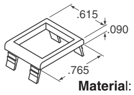

Material: Black Nylon

Fig.	Panel Thickness	Panel Shape	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
1	.062" (1.57mm)	Rectangle	CKN1746-ND	.75	.60	.48	452702263
	.090" (2.29mm)	Rectangle	CKN1747-ND	.75	.60	.48	452802263
	.125" (3.18mm)	Rectangle	CKN1745-ND	.75	.60	.48	452602263
2	.062" (1.57mm)	Square	CKN1742-ND	1.00	.80	.64	432602263
	.090" (2.29mm)	Square	CKN1743-ND	1.00	.80	.64	432702263
	.125" (3.18mm)	Square	CKN1744-ND	1.01	.81	.64	432802263

E•SWITCH™

RoHS COMPLIANT

Miniature Pushbutton Switches PBH Series

Miniature switches that feature an ultra light feel with a short stroke. Ideal for telecommunications and test equipment, and wherever miniaturization is required.
• **Contact/Terminals Material:** Silver Plated • **Contact Resistance:** <0.1Ω • **Voltage Rating:** 30VDC • **Switching Current Maximum:** 100mA • **Life:** ≥1 x 10,000 cycles • **Moving Contacts:** Phosphor bronze – 1 micron silver • **Force:** 280 ±50gF • **Travel To Lock:** .08" (2mm) • **Operating Temperature Range:** -20°C ~ 70°C • ***Caps sold separately***

Dimensions in Inch (mm)

Fig. 1 — No Mounting Bracket

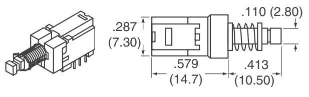

Fig. 2 — Chassis Mount Version

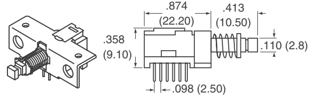

Fig. 3

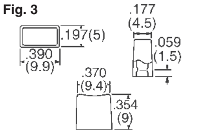

Fig. 4

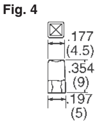

Fig. 5

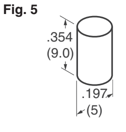

Fig. 6

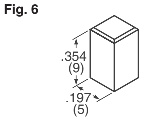

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100	E-Switch Part No.
1	Right Angle, Momentary, DPDT	EG2654-ND	1.13	10.21	86.94	PBH2UOANAGX
	Right Angle, Alternate Action DPDT	EG2655-ND	1.25	11.26	95.91	PBH2UEENAGX
	Right Angle, Alternate Action, 4PDT	EG2657-ND	1.43	12.88	109.71	PBH4UEENAGX
	Right Angle, Momentary, 4PDT	EG2658-ND	1.31	11.75	100.05	PBH4UOANAGX
2	Chassis Mount, Right Angle, Alternate Action DPDT	EG2656-ND	.93	8.37	71.30	1XPBH2UEENAGX
3	Rectangle Cap, Red	EG1185-ND	.23	2.11	17.94	1CRED
	Rectangle Cap, Black	EG1181-ND	.23	2.11	17.94	1CBLK
	Rectangle Cap, Dark Grey	EG1182-ND	.24	2.19	18.63	1CDGR
4	Long Square Cap, Red	EG1195-ND	.23	2.11	17.94	1DRED
	Long Square Cap, Black	EG1191-ND	.23	2.11	17.94	1DBLK
	Long Square Cap, Dark Grey	EG1192-ND	.24	2.19	18.63	1DDGR
5	Round Cap, Diameter, Red	EG1880-ND	.25	2.22	18.88	1RRED
	Round Cap, Diameter, White	EG1881-ND	.23	2.11	17.94	1RWHT
	Round Cap, Diameter, Black	EG1882-ND	.25	2.22	18.88	1RBLK
	Round Cap, Diameter, Light Grey	EG1883-ND	.24	2.19	18.63	1RLGR
	Round Cap, Diameter, Dark Grey	EG1884-ND	.24	2.19	18.63	1RDGR
6	Square Cap, Black	EG4379-ND	.23	2.11	17.94	1SBLK
	Square Cap, Red	EG4364-ND	.23	2.11	17.94	1SRED
	Square Cap, White	EG4365-ND	.23	2.11	17.94	1SWHT

Power Switches P227/P197 Series

RoHS COMPLIANT

P227 Series: Rating 125VAC @ 7A, 250VAC @ 4A. DPDT Alternate Action Panel Mount. Approvals: UL, CSA, Demko, Semko, SEV, Femko, Nemko.
P197 Series: Rating 5A @ AC250V. Approvals: UL, CSA, VDE, Semko, Nemko, Demko.
Caps sold separately.

Dim. in Inch (mm)

Fig. 1

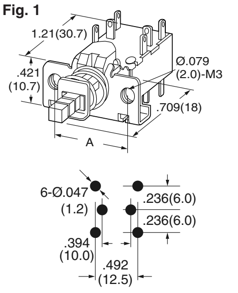

Fig. 2

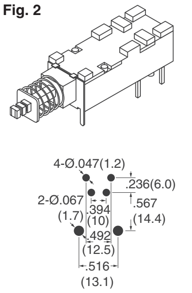

Fig. 3

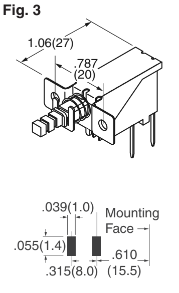

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Pushbutton, DPDT, Alt. Act., Dim. A = .79" (20mm)	EG1018-ND	3.24	2.92	2.49	P227EE2B20A
	Pushbutton, DPDT, Alt. Act., Dim. A = .71" (18mm)	EG1020-ND	3.24	2.92	2.49	P227EE2B18A
2	Pushbutton, DPST, Alt. Act., PCB Mount, 7A	EG1026-ND	3.15	2.84	2.42	P227EE1CXC
3	Pushbutton, SPST, Alt. Act., PCB Mount, 5A	EG1021-ND	2.93	2.64	2.25	P197EEPB
	Pushbutton, SPST, Alt. Act., Panel Mount, 5A	EG1022-ND	2.93	2.64	2.25	P197EESB

Pushbutton Switches
JN Series

RoHS COMPLIANT

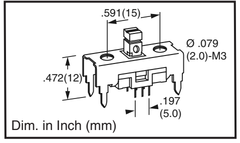

Dim. in Inch (mm)

- **Contacts:** Silver Plated
- **Contact Resistance:** 50mΩ maximum
- **Voltage Ratings:** 30V
- **DC Rating:** 0.1A

Caps sold separately

Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Individual Mount, Momentary Action DPDT	EG4368-ND	1.28	1.16	.99	JN2U0ANAGX
Chassis Mount, Stand Up, Alternate Action DPDT	EG1016-ND	1.54	1.39	1.18	1XJN002UEE
Chassis Mount, Stand Up, Momentary Action DPDT	EG1017-ND	1.54	1.39	1.18	1XJN002UOA

Pushbutton Switches TL Series

Dim. in Inch (mm)

Rating: DC 30V 0.1A
Circuit: DPDT - 4PDT
Timing: Non-Shorting
Travel Stroke: Full 2.5, Lock 1.5
Operating Force: TL2285 = 180 ±50gf
TL4201 = 250 +100/-50gf
Life: 10,000 cycles minimum
Caps sold separately.
TL2285 Series: use PBH caps
TL4201 Series: use 4J/6J caps

RoHS COMPLIANT

Fig. 1

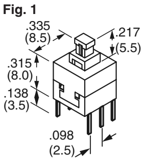

Fig. 2

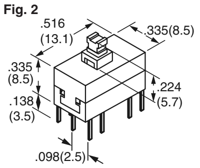

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Momentary Action, DPDT, PCB Mount, Silver Plating	EG1871-ND	1.19	.96	.86	TL2285OA
	Alternate Action, DPDT, PCB Mount, Silver Plating	EG1872-ND	1.19	.96	.86	TL2285EE
2	Momentary Action, 4PDT, PCB Mount, Silver Plating	EG1873-ND	2.56	2.05	1.85	TL4201OAYA
	Alternate Action, 4PDT, PCB Mount, Silver Plating	EG1874-ND	2.56	2.05	1.85	TL4201EEYA

Switch Caps

Dimensions in Inch (mm)

Fig. 1

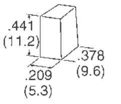

Fig. 2

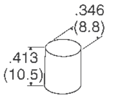

Fig. 3

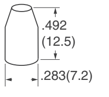

Fig. 4

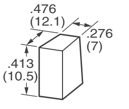

Fig. 5

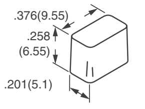

Fig. 6

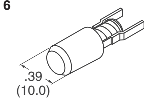

Fig.	Description‡	Digi-Key Part No.	Pricing 1	10	100	E-Switch Part No.
1	Rectangle Cap, White	EG1088-ND◆	.32	2.89	24.61	TACWHT
	Rectangle Cap, Black	EG1081-ND◆	.32	2.89	24.61	TACBLK
	Rectangle Cap, Red	EG1085-ND◆	.32	2.89	24.61	TACRED
	Rectangle Cap, Grey	EG1082-ND◆	.32	2.89	24.61	TACGRY
2	Round Cap, White	EG1098-ND◆	.32	2.89	24.61	TAGWHT
	Round Cap, Black	EG1091-ND◆	.33	2.99	25.46	TAGBLK
	Round Cap, Grey	EG1092-ND◆	.32	2.89	24.61	TAGGRY
	Round Cap, Red	EG1095-ND◆	.32	2.89	24.61	TAGRED
	Round Cap, Chrome	EG1099-ND◆	.63	5.70	48.53	TAGCHR
3	Bullet Shaped Cap, Black	EG1012-ND◆	.33	2.99	25.46	TAMBLK
	Bullet Shaped Cap, White	EG1013-ND◆	.32	2.89	24.61	TAMWHT
	Bullet Shaped Cap, Grey	EG1014-ND◆	.32	2.89	24.61	TAMGRY
4	Rectangle Cap, Red	EG1019-ND◆	.32	2.89	24.61	TADRED
	Rectangle Cap, Black	EG1877-ND◆	.32	2.89	24.61	TADBLK
	Rectangle Cap, White	EG1878-ND◆	.32	2.89	24.61	TADWHT
	Rectangle Cap, Grey	EG1879-ND◆	.32	2.89	24.61	TADGRY
5	Rectangle Cap, with Chamfered Edges, Black	EG1875-ND◆	.38	3.40	28.98	TAKBLK
	Rectangle Cap, with Chamfered Edges, Grey	EG1876-ND◆	.74	6.67	56.81	TAKGRY
6	Round Cap, with Shutter Window, Blue	EG2633-ND	1.36	12.26	98.10	TH201-BLU
	Round Cap, with Shutter Window, Orange	EG2635-ND	1.36	12.26	98.10	TH201-ORG
	Round Cap, with Shutter Window, White	EG2636-ND	1.36	12.26	98.10	TH201-WHT
	Round Cap, with Shutter Window, Yellow	EG2637-ND	1.36	12.26	98.10	TH201-YEL

◆ ***RoHS Compliant***
‡ All caps are gloss finish **Note:** These caps fit JN, TL4201, P227 and P197 Series

NEW! Power Pushbutton Switches
RP8100 Series

RoHS COMPLIANT

Features: • Threaded or snap in panel mount • LED illuminated option • Sealed to IP65
Markets: • Telecommunications • Audio • Appliance • Instrumentation • Consumer Electronics
Specifications: • Contact Rating: 125mA @ 125VAC, 100mA @ 50VDC • Life Expectancy: 500,000 cycles • Contact Resistance: 50mΩ max. • Insulation Resistance: 1,000 MΩ min. @ 500VDC • Dielectric Strength: 1,000VAC rms. • Operating Force: 300gf ±100gf • Operating Temperature: -30°C ~ 85°C
Materials: • Housing: Nylon • Button: Nylon • Terminal Case: Thermo Plastic • Terminals: Copper alloy, plated • Contact: Copper alloy, plated

Fig. 1

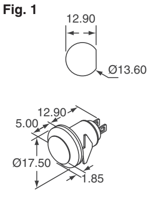

Fig. 2

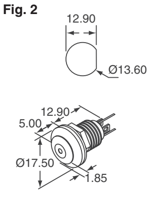

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Snap-In, Black Cap	EG4569-ND	6.18	5.57	4.74	RP8100B1M1CEBLKBLKNIL
2	Threaded, Black Cap	EG4570-ND	6.72	6.05	5.16	RP8100B2M1CEBLKBLKNIL
	Threaded, Blue Cap	EG4571-ND	6.72	6.05	5.16	RP8100B2M1CEBLKBLUNIL
	Threaded, Black Cap, Blue LED	EG4572-ND	8.10	7.29	6.21	RP8100B2M1CEBLKBLKBLU
	Threaded, Black Cap, Green LED	EG4573-ND	7.74	6.97	5.94	RP8100B2M1CEBLKBLKGRN
	Threaded, Black Cap, Red LED	EG4574-ND	7.74	6.97	5.94	RP8100B2M1CEBLKBLKRED
	Threaded, Black Cap, White LED	EG4575-ND	8.10	7.29	6.21	RP8100B2M1CEBLKBLKWHT

Grayhill

Pushbutton Switches 30 Series

FEATURES: • Convenient Snap-in Panel Mounting • SPST N.O. (Momentary Contact) • Gold Plated Contacts • Sealed • IP67
MATERIAL: • **Terminal:** Brass, gold-plated over nickel • **Shorting Bar:** Brass, gold plated over nickel • **Internal Seal:** Silicon Rubber • **O-ring Seal:** Silicon
RATINGS: • **Cycles:** 500,000 Actuations • **Operating Temperature:** -40°C ~ 80°C • **Voltage Breakdown:** 1000 VAC between mutually insulated parts • **Contact Resistance:** 25MΩ maximum on new switch • **Insulation:** 1,000MΩ minimum

Button Color	Digi-Key Part No.	Price Each 1	100	500	Grayhill Part No.
Black	GH7268-ND	4.46	3.35	2.86	30-100
Red	GH7269-ND	4.46	3.35	2.86	30-101
Green	GH7270-ND	4.46	3.35	2.86	30-102
Yellow	GH7271-ND	4.46	3.35	2.86	30-103
Orange	GH7272-ND	4.46	3.35	2.86	30-104

Dimensions in Inch (mm)

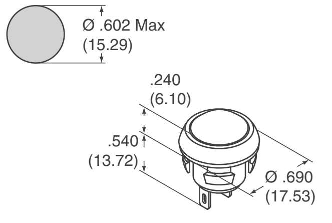

E•SWITCH™

Pushbutton Switches 700 Series

Specifications:
• Ratings: 1A @ 250VAC, 3A @ 120VAC • Gold Contacts: 0.4VA maximum @ 20VAC • Electrical Life: 50,000 cycles typical • Insulation Resistance: 1,000MΩ minimum **Materials:**
• Case: Diallyl phthalate (DAP) • Plunger: Glass-filled nylon or glass-filled polyester • Bushing: Nickel plated brass • Housing: Stainless steel • Contacts: Silver or gold plated copper alloy • Mounting Hardware

700 Series Cap

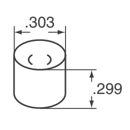

Fig. 1

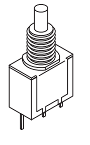

Fig. 2

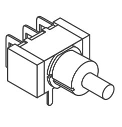

Fig. 3

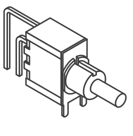

Fig.	Circuit Type	Terminal	Bushing	Contact Rating	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	DPDT	PCB	1/4-40NS	3A	EG2590-ND	7.13	6.42	5.13	700DP7B10M2QEH
	DPDT	PCB	1/4-40NS	.4VA	EG2591-ND‡	7.55	6.80	5.44	700DP7B10M2REH
	SPDT	Solder Lug	1/4-40NS	3A	EG2592-ND	7.13	6.42	5.13	700SP7B10M1QEH
	SPDT	Solder Lug	1/4-40NS	.4VA	EG2593-ND‡	7.55	6.80	5.44	700SP7B10M1REH
	SPDT	PCB	1/4-40NS	3A	EG2594-ND	7.13	6.42	5.13	700SP7B10M2QEH
	SPDT	PCB	1/4-40NS	.4VA	EG2595-ND‡	7.55	6.80	5.44	700SP7B10M2REH
2	SPDT	PCB	Unthd	3A	EG2596-ND	6.44	5.80	4.64	700SP7B20M6QE
3	SPDT	PCB	Unthd	3A	EG2597-ND	6.54	5.89	4.71	700SP7B20M7QE
700 Series Caps									
Pushbutton Cap, .303” Round, Black for 700 Series					EG2598-ND	.27	.18	.15	700C1BLK
Pushbutton Cap, .303” Round, Green for 700 Series					EG2599-ND	.27	.18	.15	700C1GRN
Pushbutton Cap, .303” Round, Gray for 700 Series					EG2600-ND	.27	.18	.15	700C1GRY
Pushbutton Cap, .303” Round, Red for 700 Series					EG2601-ND	.27	.18	.15	700C1RED
Pushbutton Cap, .303” Round, White for 700 Series					EG2602-ND	.27	.18	.15	700C1WHT

‡ Gold plated copper alloy contacts

Pushbutton Switches
800, 800A and 800B Series

Specifications (800 and 800A series only)**:**
• Ratings: 1A @ 250VAC, 3A @ 20VAC • Gold Contacts: 0.4VA maximum @ 20VAC • Electrical Life: 50,000 cycles typical • Insulation Resistance: 1,000MΩ minimum
Materials: • Case: Diallyl phthalate (DAP) • Plunger: Glass-filled nylon or glass-filled polyester • Bushing: Nickel plated brass • Housing: Stainless steel • Contacts: Silver or gold plated copper alloy • Mounting Hardware

800 Series Cap

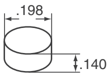

Fig. 1

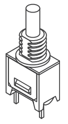

Fig. 2

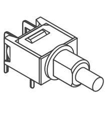

Fig. 3

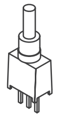

Fig. 4

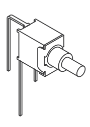

Fig.	Circuit Type	Terminal	Bushing	Contact Rating	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Unsealed Pushbutton Switches									
1	SPST	PC Mount	10-48 Thd.	3A	EG2613-ND	3.20	2.88	2.31	800SP9B5M2QEH
	SPST	PC Mount	.173” Unthd.	.4VA	EG2614-ND	3.37	3.03	2.43	800SP9B6M2RE
	SPST	PC Mount	.225” Unthd.	3A	EG2617-ND	4.60	4.14	3.32	800SP9B8M2QE
2	SPST	Rt. Angle PCB	.173” Unthd.	.4VA	EG2615-ND	3.68	3.32	2.65	800SP9B6M6RE
	SPST	Rt. Angle PCB	.187” Unthd.	.4VA	EG2616-ND	4.73	4.26	3.41	800SP9B7M6RE
	SPDT	Rt. Angle PCB	.173” Unthd.	.4VA	EG2611-ND	4.93	4.44	3.55	800SP8B6M6RE
	SPDT	Rt. Angle PCB	.187” Unthd.	.4VA	EG2612-ND	5.98	5.38	4.31	800SP8B7M6RE
Sealed Pushbutton Switches									
3	SPST	PC Mount	.180” Unthd.	1A	EG2605-ND	3.93	3.54	2.83	800AWSP9M2QE
	SPST	PC Mount	.180” Unthd.	.4VA	EG2606-ND	3.60	3.24	2.59	800AWSP9M2RE
	SPDT	PC Mount	.180” Unthd.	1A	EG2603-ND	5.00	4.50	3.60	800AWSP8M2QE
	SPDT	PC Mount	.180” Unthd.	.4VA	EG2604-ND	5.19	4.68	3.74	800AWSP8M2RE
2	SPST	Rt. Angle PCB	.180” Unthd.	.4VA	EG2608-ND	4.40	3.96	3.17	800AWSP9M6RE
	SPST	Rt. Angle PCB	.180” Unthd.	1A	EG2607-ND	4.20	3.78	3.03	800AWSP9M6QE
4	SPST	Vert. Rt. Angle	.180” Unthd.	1A	EG4363-ND	5.04	4.54	3.87	800AWSP9M7QE
	SPST	Vert. Rt. Angle	.180” Unthd.	.4VA	EG2609-ND	4.40	3.96	3.17	800AWSP9M7RE
800B Series Pushbutton Switches									
2	SPST	SMT	—	.4VA	EG2610CT-ND	7.94	6.35	5.72	800BWSP9SM6RE
					EG2610TR-ND	2010.20/500			800BWSP9SM6RE
Switch Accessories									
Switch Cap, Round, Black for .100” Plunger					EG2618-ND	.28	.18	.15	800C1BLK
Switch Cap, Round, White for .100” Plunger					EG2621-ND	.28	.18	.15	800C1WHT
Switch Cap, Round, Red for .100” Plunger					EG2620-ND	.28	.18	.15	800C1RED
Switch Cap, Round, Green for .100” Plunger					EG2619-ND	.28	.18	.15	800C1GRN

C&K

Switch Caps for PVA Series

Rectangle

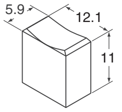

Round

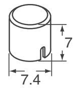

Description	Digi-Key Part No.	Pricing 1	25	100	C&K Part No.
Switch Caps for PVA Pushbutton Switches					
Rectangle, Black	401-1152-ND	.33	6.66	21.09	PE BK
Rectangle, Grey	401-1153-ND	.33	6.66	21.09	PE GY
Rectangle, Red	401-1154-ND	.33	6.66	21.09	PE RD
Rectangle, White	401-1155-ND	.33	6.66	21.09	PE WH
Round, Black	401-1148-ND	.29	5.88	18.62	PV BK
Round, Grey	401-1149-ND	.29	5.88	18.62	PV GY
Round, Red	401-1150-ND	.29	5.88	18.62	PV RD
Round, White	401-1151-ND	.29	5.88	18.62	PV WH

PVA Pushbutton Switches

Switching: Voltage Maximum: 50VDC, Current Maximum: 100mADC **Operating Life:** 10^5 operations
Contact Resistance: 150mΩ **Operating Temperature:** -40°C ~ 85°C (without button)

Circuit	Description	Dim H (mm)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
DPST-NO	Alternate Action, 120gF	17.5	401-1132-ND	1.55	1.25	.99	PVA1 EE H1
	Alternate Action, 120gF	23	401-1134-ND	1.73	1.39	1.10	PVA1 EE H2
	Alternate Action, 120gF	20.5	401-1136-ND	1.73	1.39	1.10	PVA1 EE H3
	Alternate Action, 120gF	15	401-1138-ND	1.69	1.36	1.07	PVA1 EE H4
	Mom. Action, 120gF	17.5	401-1133-ND	1.46	1.18	.93	PVA1 OA H1
	Mom. Action, 120gF	23	401-1135-ND	1.64	1.32	1.05	PVA1 OA H2
	Mom. Action, 120gF	20.5	401-1137-ND	1.64	1.32	1.05	PVA1 OA H3
	Mom. Action, 120gF	15	401-1139-ND	1.60	1.29	1.02	PVA1 OA H4
DPDT-NO	Alternate Action, 170gF	17.5	401-1140-ND	1.64	1.32	1.05	PVA2 EE H1
	Alternate Action, 170gF	23	401-1142-ND	1.82	1.46	1.16	PVA2 EE H2
	Alternate Action, 170gF	20.5	401-1144-ND	1.82	1.46	1.16	PVA2 EE H3
	Alternate Action, 170gF	15	401-1146-ND	1.78	1.43	1.13	PVA2 EE H4
	Mom. Action, 170gF	17.5	401-1141-ND	1.55	1.25	.99	PVA2 OA H1
	Mom. Action, 170gF	23	401-1143-ND	1.73	1.39	1.10	PVA2 OA H2
	Mom. Action, 170gF	15	401-1147-ND	1.69	1.36	1.07	PVA2 OA H4

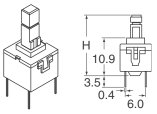

DPST Shown

DPST

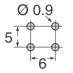

DPDT

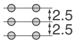

APEM COMPONENTS, INC.

Pushbutton Switches 300, 400, 9000, MPB Series

RoHS COMPLIANT

Fig. 1

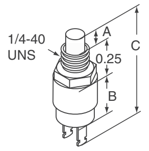

Fig. 2

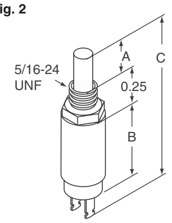

Fig. 3

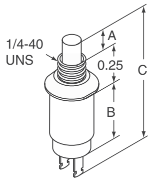

Fig. 4

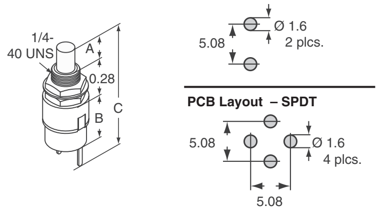
PCB Layout – SPST

PCB Layout – SPDT

Fig. 5

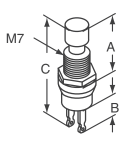

Fig	Circuit	Current Rating	Thread Size	Termination	Dimensions (Inch)			Digi-Key Part No.	Price Each			APEM Part No.
					A	B	C		1	25	100	
300 Series - Miniature												
1	SPST-NO	1A	1/4-40	PCB	0.178	0.429	1.078	679-1000-ND	5.61	5.12	4.62	301CQE
		500mA		Solder Lug				679-1001-ND	5.44	4.96	4.48	301ZBE
		500mA		PCB	0.146	0.319	0.936	679-1002-ND	5.58	5.09	4.60	302CBE
		500mA		Solder Lug				679-1003-ND	5.44	4.96	4.48	302ZBE
		500mA		Solder Lug	0.178	0.429	1.078	679-1004-ND	5.44	4.96	4.48	305ZBE
		1A		Solder Lug				679-1005-ND	5.44	4.96	4.48	305ZQE
2	SPST-NO	500mA	5/16-24	PCB	0.351	0.787	1.608	679-1013-ND	7.96	7.26	6.56	306CBE
		1A		PCB				679-1014-ND	7.96	7.26	6.56	306CQE
		500mA		Solder Lug				679-1015-ND	8.98	8.19	7.40	306ZBE
400 Series - Miniature												
3	On-Off	1A	1/4-40	PCB	0.208	0.469	1.303	679-1016-ND	6.77	6.17	5.58	401CQE
		500mA		Solder Lug				679-1017-ND	6.60	6.02	5.44	401ZBE
		1A		Solder Lug				679-1018-ND	7.45	6.79	6.14	401ZQE
	SPST-NO	500mA	1/4-40	Solder Lug	0.205	0.469	1.303	679-1019-ND	7.45	6.79	6.14	402ZBE
		1A						679-1020-ND	7.45	6.79	6.14	402ZQE
9000 Series - Momentary												
1	SPST-NO	100mA	M4	PCB	0.137	0.240	0.691	679-1006-ND	3.16	2.89	2.61	9133CD
	SPST-NC					0.314	0.765	679-1007-ND	3.98	3.63	3.28	9232CD
	SPST-NO					0.240	0.765	679-1008-ND	3.98	3.63	3.28	9233CD
	SPST-NO					0.240	0.762	679-1009-ND	3.16	2.89	2.61	9233NCD
	SPST-NC			Solder Lug		0.240	0.687	679-1010-ND	3.88	3.54	3.20	9532CD
	SPST-NO					0.314	0.687	679-1011-ND	3.74	3.41	3.08	9533CD
	SPST-NO					0.314	0.613	679-1012-ND	3.16	2.89	2.61	9533NCD
4	SPST-NC	1A	1/4-40	PCB	0.236	0.466	1.156	679-1025-ND	5.13	4.69	4.23	9432AB
	SPST-NC	100mA						679-1026-ND	5.20	4.75	4.29	9432CDB
	SPDT	100mA						679-1027-ND	6.43	5.86	5.30	9435CDB
	SPST-NO	1A		Solder Lug	0.236	0.334	1.041	679-1028-ND	4.11	3.76	3.39	9633NAB
	SPST-NO	100mA				0.334	1.041	679-1029-ND	4.18	3.82	3.45	9633NCDB
	SPDT	1A				0.440	1.155	679-1030-ND	6.77	6.17	5.58	9635AB
MPB Series - Momentary												
5	SPST-NO	300mA	M7 Blk Cap	Solder Lug	0.520	0.236	1.095	679-1021-ND	2.18	1.99	1.80	MPB11102
			M7 Red Cap					679-1022-ND	2.18	1.99	1.80	MPB11106
	SPST-NC	300mA	M7 Blk Cap	Solder Lug	0.472	0.236	1.189	679-1023-ND	2.35	2.14	1.94	MPB11402
			M7 Red Cap					679-1024-ND	2.35	2.14	1.94	MPB11406
Accessories												
Pushbutton Cap, Black, .25" Diameter for 300 and 400 Series								679-1031-ND	.99	.90	.82	A235-2
Pushbutton Cap, Red, .25" Diameter for 300 and 400 Series								679-1032-ND	.99	.90	.82	A235-6
Pushbutton Cap, Black, 5mm Diameter for 9000 Series								679-1033-ND	.27	.25	.23	U902
Pushbutton Cap, Red, 5mm Diameter for 9000 Series								679-1034-ND	.27	.25	.23	U906
Pushbutton Cap, Black, 8mm Diameter for 9000 Series								679-1035-ND	.31	.28	.26	U1142
Pushbutton Cap, Red, 8mm Diameter for 9000 Series								679-1036-ND	.31	.28	.26	U1146

Grayhill INC.

Miniature Pushbutton Switches

RoHS COMPLIANT

Grayhill's miniature pushbutton switches are PCB or panel mounted for compact, low-profile, behind-panel applications. Series 30 and 39 switches are a reliable and economical solution with a large selection of shapes and sizes to fit all designs. Operating temperature is -40°C ~ 85°C. Optional caps work with all Series 30 and 39 switches except 39-101. Fasten button with cyanoacrylate adhesive.

Fig. 1

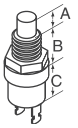

Fig. 2

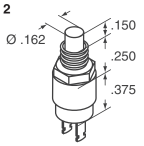

Fig. 3

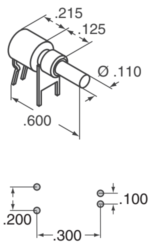

Fig. 4

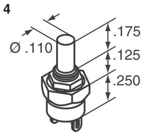

Fig. 5

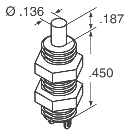

Fig.	Circuit	Current Rating	Button Color	Thread Size	Dimensions (Inch)			Digi-Key Part No.	Price Each		Grayhill Part No.
					A	B	C		1	100	
1	SPST-NO	1A	Black	15/32-32	.160	.375	.668	GH1359-ND	5.14	3.86	10-09
	SPST-NO	250mA	Red	5/16-32	.146	.250	.476	GH1361-ND	7.27	5.46	23-1
	SPST-NO	1A	Red	1/4-32	.150	.250	.370	GH1362-ND	2.53	1.90	30-1
	SPST-NO	1A	Black	1/4-32	.150	.250	.370	GH1365-ND	2.53	1.90	30-3
	SPST-NO	5A	Black	1/4-32	.150	.250	.370	GH1358-ND	2.64	1.99	30-3UL
	SPST-NO	1A	Red	1/4-32	.150	.250	.455	GH1363-ND	3.16	2.37	30-15
	SPST-NO	150mA	Black	1/4-32	.150	.250	.370	GH1367-ND	1.81	1.36	30-601 BLK
	SPST-NO	150mA	Red	1/4-32	.150	.250	.370	GH1368-ND	1.81	1.36	30-601 RED
	SPST-NO	500mA	Red	8-40	.175	.125	.215	GH1344-ND	3.77	2.83	39-1
	SPST-NC	250mA	Black	8-40	.175	.125	.390	GH1346-ND	5.83	4.38	39-2
	SPST-NO	500mA	Black	8-40	.175	.125	.215	GH1345-ND	3.78	2.84	39-3
	SPST-NO	150mA	Red	8-40	.175	.125	.215	GH1350-ND	3.13	2.35	39-401 RED
	SPST-NO	150mA	Black	8-40	.175	.125	.215	GH1349-ND	3.13	2.35	39-401 BLK
	SPST-NO	1A	Red	15/32-32	.160	.375	.668	GH1360-ND	5.14	3.86	4001
2	SPST-NC	1A	Black	1/4-32	—	—	—	GH1364-ND	2.84	2.14	30-2
	SPST-NC	1A	Red	1/4-32	—	—	—	GH1366-ND	2.84	2.14	30-6
3	SPST-NO	150mA	Red	—	—	—	—	GH1351-ND	5.00	3.75	39-501 RED
	SPST-NO	150mA	Black	—	—	—	—	GH1352-ND	5.00	3.75	39-501 BLK
4	SPST-NO	500mA	Red	8-40	—	—	—	GH1347-ND	7.06	5.30	39-351 RED
	SPST-NO	500mA	Black	8-40	—	—	—	GH1348-ND	7.06	5.30	39-351 BLK
5	SPST-NO	500mA	Nat. Nylon	5/16-32	—	—	—	GH1369-ND	8.21	6.16	39-101
Pushbutton Cap, Red, .25" Diameter for Series 30 and 39								GH1355-ND	.36	.27	30B1012-5
Pushbutton Cap, Black, .25" Diameter for Series 30 and 39								GH1357-ND	.36	.27	30B1012-9
Pushbutton Cap, White, .25" Diameter for Series 30 and 39								GH1356-ND	.39	.30	30B1012-8

Momentary Pushbutton Switches

5500 Narrow and 5511 Wide Body Series

These miniature, momentary switches have a crisp tactile feel and are available in a wide range of colors, available in two widths: *the 5500* .47” (12mm) wide and *the 5511* .67” (17mm) wide, meet all ESD protection requirements and are available with or without LED **Operating Travel:** 1.8mm **Function:** Momentary SPDT **Contact Bounce:** <5m second **Operating Life:** 5 x 10^5 Cycles **Operating Force:** <200 gf **Voltage Rating:** 12V **Current Rating:** 50mA **Contact Resistance:** <50mΩ **LED Ratings:** 2.2v@30mA

Fig. 1 — Narrow Body

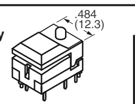

Fig. 2 — Wide Body

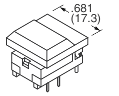

Dimensions - Inch (mm)

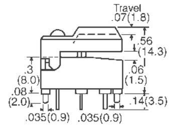

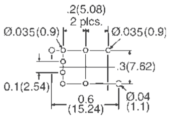

(Above PCB is for Two LED Series)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
	5500 Series - Narrow Body					
1	SPDT, Black Cap, no LED	EG1701-ND	4.06	3.66	3.12	5501M1BLKX
	SPDT, Grey Cap, no LED	EG1702-ND	4.06	3.66	3.12	5501MGRYX
	SPDT, Red Cap, no LED	EG1704-ND	4.06	3.66	3.12	5501MREDX
	SPDT, White Cap, no LED	EG1708-ND	4.06	3.66	3.12	5501MWHTX
	SPDT, Black Cap, with Red LED	EG17151-ND	5.30	4.78	4.07	5501MBLKRED
	SPDT, Black Cap, with Green LED	EG17171-ND	5.30	4.78	4.07	5501MBLKGRN
	SPDT, Black Cap, with Yellow LED	EG4608-ND ***NEW!***	5.30	4.78	4.07	5501MBLKYEL
	SPDT, Grey Cap, with Red LED	EG17152-ND	5.30	4.78	4.07	5501MGRYRED
	SPDT, Grey Cap, with Green LED	EG17172-ND	5.30	4.78	4.07	5501MGRYGRN
	SPDT, Red Cap, with Red LED	EG17155-ND	5.30	4.78	4.07	5501MREDRED
	SPDT, Red Cap, with Green LED	EG17175-ND	5.30	4.78	4.07	5501MREDGRN
	SPDT, White Cap, with Red LED	EG17158-ND	5.30	4.78	4.07	5501MWHTRED
	SPDT, White Cap, with Green LED	EG17178-ND	5.30	4.78	4.07	5501MWHTGRN
	SPDT, Black Cap, with Red and Green LED	EG171571-ND	5.84	5.26	4.49	5501MBLKREDGRN
	SPDT, Grey Cap, with Red and Green LED	EG171572-ND	5.84	5.26	4.49	5501MGRYREDGRN
	5511 Series - Wide Body					
2	SPDT, Black Cap, no LED	EG1709-ND	4.06	3.66	3.12	5511MBLKX
	SPDT, Grey Cap, no LED	EG1710-ND	4.06	3.66	3.12	5511MGRYX
	SPDT, Blue Cap, no LED	EG1711-ND	4.06	3.66	3.12	5511MBLUX
	SPDT, Red Cap, no LED	EG1712-ND	4.06	3.66	3.12	5511MREDX
	SPDT, White Cap, no LED	EG1714-ND	4.06	3.66	3.12	5511MWHTX
	SPDT, Black Cap, with Red LED	EG1715-ND	5.30	4.78	4.07	5511MBLKRED
	SPDT, Black Cap, with Green LED	EG1719-ND	5.30	4.78	4.07	5511MBLKGRN
	SPDT, Grey Cap, with Red LED	EG1716-ND	5.30	4.78	4.07	5511MGRYRED
	SPDT, Grey Cap, with Green LED	EG1720-ND	5.30	4.78	4.07	5511MGRYGRN
	SPDT, Red Cap, with Red LED	EG1717-ND	5.30	4.78	4.07	5511MBLURED
	SPDT, White Cap, with Red LED	EG1718-ND	5.30	4.78	4.07	5511MWHTRED
	SPDT, White Cap, with Green LED	EG1722-ND	5.30	4.78	4.07	5511MWHTGRN
	SPDT, Black Cap, with Red and Green LED	EG1723-ND	5.84	5.26	4.49	5511MBLKREDGRN
	SPDT, Grey Cap, with Red and Green LED	EG1724-ND	5.84	5.26	4.49	5511MGRYREDGRN

Momentary Pushbutton Switches

Dimensions - Inch (mm)

Fig. 1

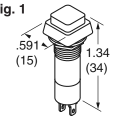

Circuit: SPST (Momentary On) **Rating:** 3A 125VAC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .49” (12.4mm) Hardware Included

Fig. 2

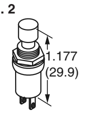

Circuit: SPST (Momentary On) **Rating:** 3A 125VAC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .28” (7.2mm) Hardware Included

Fig. 3

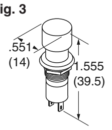

Circuit: SPST (Momentary On) **Rating:** 3A 125VAC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .49” (12.4mm) Hardware Included

Fig. 4

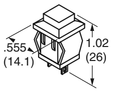

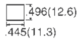

Panel Cutout

Circuit: SPST (Momentary On) **Rating:** 1A 125VAC **Initial Contact Resistance:** ≤ 20mΩ

Fig. 5

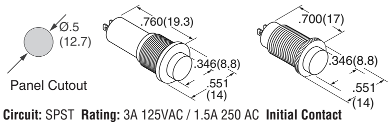

Circuit: SPST **Rating:** 3A 125VAC / 1.5A 250 AC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .50” (12.7mm) Hardware Included

Fig. 6

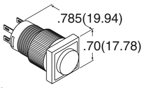

Circuit: SPST **Rating:** 3A 125V /1.5A 250VAC **Hole Cutout:** .62” (15.75mm) Hardware Included **Rating:** Red; 1.8V@20mA, Yellow & Green; 2.1V@20mA

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Red, Cap .59” (15mm) Sq., N/O	EG2005-ND	2.05	1.85	1.57	PS1023ARED
	Black, Cap .59” (15mm) Sq., N/O	EG2001-ND	2.05	1.85	1.57	PS1023ABLK
2	Red, Cap .24” (6mm) Dia., N/O	EG2015-ND	1.10	.96	.88	PS1024ARED
	Black, Cap .24” (6mm) Dia., N/O	EG2011-ND	1.48	1.30	1.19	PS1024ABLK
	Red, Cap .39” (10mm) Dia., N/O	EG2025-ND	1.56	1.41	1.20	PS1024ALRED
	Black, Cap .39” (10mm) Dia., N/O	EG2021-ND	1.56	1.41	1.20	PS1024ALBLK
3	Red, Cap .55” (14mm) Dia., N/O	EG2035-ND	2.31	2.09	1.78	PS1040ARED
	Black, Cap .55” (14mm) Dia., N/O	EG2031-ND	2.31	2.09	1.78	PS1040ABLK
4	Red, Cap .55” (14mm) Sq., N/O	EG2045-ND	1.69	1.52	1.30	PS1057ARED
	Black, Cap .55” (14mm) Sq., N/O	EG2041-ND	1.69	1.52	1.30	PS1057ABLK
5	Black Cap, Plastic Bushing, N/O	EG1900-ND	2.25	2.03	1.73	RP3502ABLK
	Black Cap, Plastic Bushing, N/C	EG1929-ND	2.55	2.30	1.96	RP3502BBLK
	Red Cap, Plastic Bushing, N/O	EG1930-ND	2.25	2.03	1.73	RP3502ARED
	Red Cap, Plastic Bushing, N/C	EG1931-ND	2.55	2.30	1.96	RP3502BRED
	Black Cap, Metal Bushing, N/O	EG1932-ND	3.48	3.14	2.67	RP3502MABLK
	Black Cap, Metal Bushing, N/C	EG1933-ND	3.90	3.52	3.00	RP3502MBBLK
	Green Cap, Metal Bushing, N/O	EG1934-ND	3.48	3.14	2.67	RP3502MAGRN
	Green Cap, Metal Bushing, N/C	EG1935-ND	3.90	3.52	3.00	RP3502MBGRN
	Yellow Cap, Metal Bushing, N/O	EG1936-ND	3.48	3.14	2.67	RP3502MAYEL
	Yellow Cap, Metal Bushing, N/C	EG1937-ND	3.90	3.52	3.00	RP3502MBYEL
	Red Cap, Metal Bushing, N/O	EG1938-ND	3.48	3.14	2.67	RP3502MARED
	Red Cap, Metal Bushing, N/C	EG1939-ND	3.90	3.52	3.00	RP3502MBRED
6	Illuminating Red LED Alt Action	EG2543-ND	7.26	6.54	5.57	RP3508BBLKREDREDNS
	Illuminating Green LED Alt Action	EG2544-ND	7.26	6.54	5.57	RP3508BBLKGRNGRNNS

Momentary Pushbutton Switches

320 Series – Sold With Caps

Fig. 1

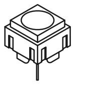

Fig. 2

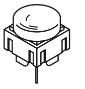

Fig. 3

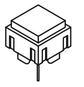

Fig. 4

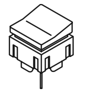

320 Series switches are being used in a variety of applications in a great number of industries such as: Instrumentation, Test Equipment, Telecommunications, Audio Visual, and Computers **Specifications:** • **Travel:** .028" (.7mm) • **Operating Force:** 120 grams • **Type Of Contact:** SPST • **Contact Rating:** 25mA/50V (DC) • **Initial Resistance:** 50mΩ • **Life:** 1 X 10^6 switching cycles • **Snap Time:** Closing: <50µs; Opening: <200µs • **Materials:** Housing: PC-CF; Knob: ABS or equivalent; Contacts (Fixed): CuZn Ag (gold available); Dome Contact: CrNi Au

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Square, Recessed, Black	EG1301-ND	2.15	1.94	1.65	320E11BLK
	Square, Recessed, Grey	EG1303-ND	2.15	1.94	1.65	320E11GRY
	Square, Recessed, Red	EG1305-ND	2.15	1.94	1.65	320E11RED
	Square, Recessed, White	EG1308-ND	2.15	1.94	1.65	320E11WHT
	Square , Recessed, Yellow	EG2549-ND	2.15	1.94	1.65	320E11YEL
	Square, Recessed, Blue	EG2550-ND	2.15	1.94	1.65	320E11BLU
	Square, Recessed, Green	EG2551-ND	2.15	1.94	1.65	320E11GRN
2	Standard Round, Black	EG1311-ND	2.25	1.94	1.67	320.02E11.08BLK
	Standard Round, Grey	EG1312-ND	2.56	2.20	1.90	320.02E11.08GRY
	Standard Round, Red	EG1315-ND	2.25	1.94	1.67	320.02E11.08RED
	Standard Round, White	EG1318-ND	2.25	1.94	1.67	320.02E11.08WHT
	Standard Round, Yellow	EG2552-ND	2.70	2.44	2.08	320.02E11.08YEL
	Standard Round, Blue	EG2553-ND	2.70	2.44	2.08	320.02E11.08BLU
	Standard Round, Green	EG2554-ND	2.70	2.44	2.08	320.02E11.08GRN
	Large Round, Black	EG2568-ND	2.85	2.57	2.19	320.02E11.09BLK
	Large Round, Grey	EG2569-ND	2.85	2.57	2.19	320.02E11.09GRY
	Large Round, Yellow	EG2570-ND	2.85	2.57	2.19	320.02E11.09YEL
	Large Round, Blue	EG2571-ND	2.85	2.57	2.19	320.02E11.09BLU
	Large Round, Red	EG2572-ND	2.85	2.57	2.19	320.02E11.09RED
	Large Round, Green	EG2573-ND	2.85	2.57	2.19	320.02E11.09GRN
	Large Round, White	EG2574-ND	2.85	2.57	2.19	320.02E11.09WHT
3	Flat Square, Black	EG1321-ND	2.15	1.94	1.65	320.01E11BLK
	Flat Square, Grey	EG1322-ND	2.15	1.94	1.65	320.01E11GRY
	Flat Square, Red	EG1325-ND	2.15	1.94	1.65	320.01E11RED
	Flat Square, White	EG1328-ND	2.15	1.94	1.65	320.01E11WHT
	Flat Square, Yellow	EG2555-ND	2.15	1.94	1.65	320.01E11YEL
	Flat Square, Blue	EG2556-ND	2.15	1.94	1.65	320.01E11BLU
	Flat Square, Green	EG2557-ND	2.15	1.94	1.65	320.01E11GRN
4	Tilted Square, Black	EG1341-ND	2.17	1.96	1.67	320.22E11BLK
	Tilted Square, Grey	EG1342-ND	2.17	1.96	1.67	320.22E11GRY
	Tilted Square, Red	EG1345-ND	2.17	1.96	1.67	320.22E11RED
	Tilted Square, White	EG1348-ND	2.17	1.96	1.67	320.22E11WHT
	Tilted Square, Yellow	EG2558-ND	2.17	1.96	1.67	320.22E11YEL
	Tilted Square, Blue	EG2559-ND	2.17	1.96	1.67	320.22E11BLU
	Tilted Square, Green	EG2560-ND	2.17	1.96	1.67	320.22E11GRN
	Tilted Rectangular, Black	EG2561-ND	2.22	2.01	1.71	320.21E11BLK
	Tilted Rectangular, Grey	EG2562-ND	2.22	2.01	1.71	320.21E11GRY
	Tilted Rectangular, Yellow	EG2563-ND	2.22	2.01	1.71	320.21E11YEL
	Tilted Rectangular, Blue	EG2564-ND	2.22	2.01	1.71	320.21E11BLU
	Tilted Rectangular, Red	EG2565-ND	2.22	2.01	1.71	320.21E11RED
	Tilted Rectangular, Green	EG2566-ND	2.22	2.01	1.71	320.21E11GRN
	Tilted Rectangular, White	EG2567-ND	2.22	2.01	1.71	320.21E11WHT
—	12 mm Finger Recessed Cap, Black	EG2575-ND	2.66	2.40	2.05	320.02E11.094BLK
	12 mm Finger Recessed Cap, Grey	EG2576-ND	2.66	2.40	2.05	320.02E11.094GRY
	Momentary Black Short (Uses JN Caps)	EG2548-ND	2.04	1.84	1.57	320.02E11BLK
	Momentary Black Tall (Uses JN Caps)	EG4366-ND	2.09	1.89	1.61	320.03E11BLK

Illuminated Panel Mount Pushbutton Switches

Dimensions - mm

Mechanical Specifications: • Mechanical Life: 30,000 cycles • Electrical Life: 10,000 cycles • Approvals: UL, VDE **Electrical Specifications:** • Contact Rating: 15A@250VAC UL listed, 10A@125VAC VDE listed • Contact Resistance: <20mΩ • Insulation Resistance: 1,000MΩ min. • Dielectric Strength: 1,500V **Environmental Specifications:** • Operating Temperature: -10°C ~ 55°C

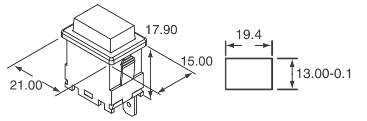

Circuit	Switching Function	Lamp Voltage	Actuator Color	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
SPST	On-Off	No Lamp	Black	EG4397-ND	1.94	1.75	1.49	PB1973ABLKBLKEF0
SPST	On-Off	12VDC	Green	EG4398-ND	2.49	2.24	1.91	PB1973CBLKGILEF3
SPST	On-Off	125VAC	Red	EG4399-ND	2.49	2.24	1.91	PB1973CBLKRILEF1
SPST	Mom-Off	12VDC	Green	EG4400-ND	3.27	2.94	2.51	PB1973DBLKGILEF3
DPST	On-Off	125VAC	Red	EG4401-ND	3.27	2.94	2.51	PB1973GBLKRILEF1
DPST	Mom-Off	12VDC	Green	EG4402-ND	3.27	2.94	2.51	PB1973HBLKGILEF3

Pushbutton Switches

1200, 1200M, 4700, 1400N Series

Dimensions in mm

Fig. 1 – 1200 Series

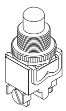

Fig. 2 – 1200 Series

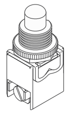

Fig. 3 – 1200M Series

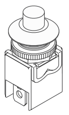

Fig. 4 – 4700 Series

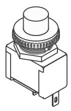

Fig. 5 – 1400N Series

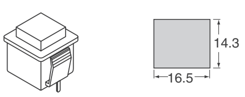

Fig.	Circuit	Switching Function	Termination	Contact Rating	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	SPST	ON (OFF)	Screw	8A 125VAC/12VDC	679-1037-ND	5.17	4.72	4.26	1202A2
2	SPST	ON (OFF)	Solder Lug	8A 125VAC/12VDC	679-1038-ND	5.41	4.93	4.46	1212A2
	SPST	OFF (ON)	Solder Lug	8A 125VAC/12VDC	679-1039-ND	5.41	4.93	4.46	1213A2
	SPST	OFF (ON)	Solder Lug	8A 125VAC/12VDC	679-1040-ND	3.91	3.57	3.22	1213C2
	SPST	ON (OFF)	Screw	8A 125VAC/12VDC	679-1041-ND	6.22	5.68	5.13	1222A2
3	SPST	ON (OFF)	Solder Lug	8A 125VAC/12VDC	679-1042-ND	16.52	15.07	13.61	1212MA
	SPST	OFF (ON)	Solder Lug	8A 125VAC/12VDC	679-1043-ND	13.94	12.71	11.48	1213MA
	SPST	ON (OFF)	Screw	8A 125VAC/12VDC	679-1044-ND	15.91	14.51	13.11	1222MA
4	SPST	ON (OFF)	Solder Lug	6A 125VAC	679-1045-ND	4.69	4.28	3.87	4731A02UU
	SPST	OFF (ON)	Solder Lug	6A 125VAC	679-1046-ND	5.54	5.06	4.57	4733A02UU
	SPDT	ON ON	Solder Lug	6A 125VAC	679-1047-ND	5.68	5.18	4.68	4736A02UU
	DPST	ON OFF	Solder Lug	6A 125VAC	679-1048-ND	6.32	5.77	5.21	4741A02UU
	DPST	OFF (ON)	Solder Lug	6A 125VAC	679-1049-ND	6.83	6.24	5.63	4743A02UU
	DPDT	ON ON	Solder Lug	6A 125VAC	679-1050-ND	7.92	7.23	6.53	4746A02UU
5	SPST	ON (OFF)	.185"QC	3A 12VDC	679-1051-ND	3.09	2.83	2.55	1412N8C2
	DPDT	ON ON	.185"QC	3A 12VDC	679-1052-ND	4.15	3.79	3.42	1415N8C2
	SPST	OFF (ON)	Solder Lug	3A 12VDC	679-1053-ND	2.92	2.67	2.41	1413NC2
	SPDT	ON ON	Solder Lug	3A 12VDC	679-1054-ND	3.40	3.10	2.80	1415NC2
	SPST	OFF (ON)	PCB	3A 12VDC	679-1055-ND	3.26	2.98	2.69	1443NC6
Sealing Boots									
Nickel Plated Hex Nut for 1200 and 4700 series					679-1297-ND	5.20	4.75	4.29	U1654
Matte Black Hex Nut for 1200 and 4700 series					679-1298-ND	5.71	5.21	4.71	U1656

IA, IB, and IS Series

IA Series:

Features: • Panel cut-out ø16.2mm • Resistant to frost, sand and hydrocarbons • Front panel sealed to IP67 **Standard Hardware Supplied:** • 1 knurled nut and 1 O-ring

Electrical Specifications: • Current/Voltage Rating: 2A/24VDC • **Contact Resistance:** 100mΩ maximum • **Electrical Life:** 1,000,000 cycles • **Total Travel:** 1.5mm • **Operating Force:** 650gF • **Operating Temperature:** -20°C ~ 65°C

IB and IS Series:

Features: • Sealed to IP67

Electrical Specifications: • Contact Rating: 400mA/32VAC - 100mA/50VDC - 125mA/125VAC • **Contact Resistance:** 50mΩ Maximum • **Electrical Life:** 500,000 cycles • **Total Travel:** 1.5mm • **Operating Force:** 2N ~ 5N • **Operating Temperature:** -40°C ~ 85°C

Dimensions in Inches (mm)

Fig. 1 – IA Series

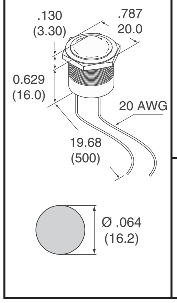

Fig. 2 – IB Series

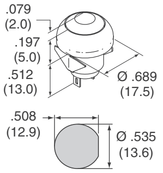

Fig 3 – IS Series

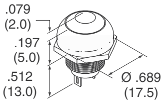

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	SPST-NO, Blue Plunger	679-1079-ND	16.22	14.79	13.36	IAR3F1100
	SPST-NO, Black Plunger	679-1080-ND	16.38	14.94	13.49	IAR3F1200
	SPST-NO, Green Plunger	679-1081-ND	16.38	14.94	13.49	IAR3F1300
	SPST-NO, Red Plunger	679-1082-ND	16.38	14.94	13.49	IAR3F1600
	SPST-NO, Orange Plunger	679-1083-ND	16.38	14.94	13.49	IAR3F1900
	SPST-NO, White Plunger	679-1084-ND	16.22	14.79	13.36	IAR3F17/100
	SPDT, Red Plunger	679-1085-ND	19.52	17.80	16.08	IAR5F1600
	SPDT, Blue Plunger	679-1086-ND	20.30	18.51	16.72	IAR5F1100
	SPDT, Black Plunger	679-1087-ND	19.52	17.80	16.08	IAR5F1200
	SPDT, Green Plunger	679-1088-ND	19.52	17.80	16.08	IAR5F1300
2	Snap-in, Black Plunger	679-1089-ND	9.52	8.68	7.84	IBR3SAD200
	Snap-in, Green Plunger	679-1090-ND	9.52	8.68	7.84	IBR3SAD300
	Snap-in, Yellow Plunger	679-1091-ND	9.52	8.68	7.84	IBR3SAD500
	Snap-in, Red Plunger	679-1092-ND	9.52	8.68	7.84	IBR3SAD600
3	Threaded, Blue Plunger	679-1093-ND	10.34	9.43	8.52	ISR3SAD100
	Threaded, Black Plunger	679-1094-ND	10.34	9.43	8.52	ISR3SAD200
	Threaded, Green Plunger	679-1095-ND	10.34	9.43	8.52	ISR3SAD300
	Threaded, Yellow Plunger	679-1096-ND	10.34	9.43	8.52	ISR3SAD500
	Threaded, Red Plunger	679-1097-ND	10.34	9.43	8.52	ISR3SAD600
	Threaded, White Plunger	679-1098-ND	10.34	9.43	8.52	ISR3SAD7/100

IP Series – Pushbutton Switches for Harsh Environments

ELECTRICAL SPECIFICATIONS:

• **Contact Ratings:** 500mA at 48VAC, 200mA at 50VDC or 200mA at 250VAC • **Electrical Life:** 500,000 cycles min. at full load • **Total Travel:** .059" (1.5mm) • **Operating Force:** 10.5±4oz. (3±1N) • **Operating Temperature Range:** -40°C ~ 125°C • **Hardware:** Supplied with 1 hex nut and 1 O-ring • **LED Ratings:** Red- 20mA at 2V, Green- 10mA at 2V

Dimensions in Inches (mm)

Fig. 1

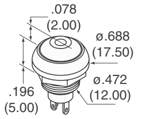

Fig. 2

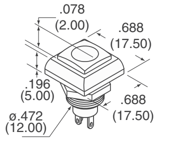

Fig. 3

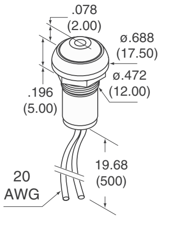

Fig. 4

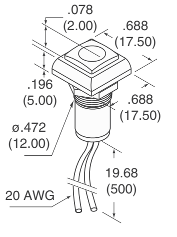

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	SPST, On-Off, Black	679-1099-ND	15.88	14.48	13.08	IPR1SAD2
	SPST, On-Off, Red	679-1100-ND	15.88	14.48	13.08	IPR1SAD6
	SPST, Mom, Black	679-1101-ND	14.82	13.52	12.21	IPR3SAD2
	SPST, Mom, Red	679-1102-ND	14.82	13.52	12.21	IPR3SAD6
	SPST, Mom, Blue	679-1103-ND	15.27	13.92	12.58	IPR3SAD1
	SPST, Mom, Green	679-1104-ND	14.82	13.52	12.21	IPR3SAD3
	SPST, Mom, Yellow	679-1105-ND	15.27	13.92	12.58	IPR3SAD5
	SPDT, Mom, Black	679-1106-ND	15.88	14.48	13.08	IPR5SAD2
	SPDT, Mom, Red	679-1107-ND	15.88	14.48	13.08	IPR5SAD6
	SPST, On-Off, Black, Green LED	679-1115-ND	21.45	19.57	17.67	IPR1SAD2LOG

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	SPST, On-Off, Black, Red LED	679-1116-ND	21.45	19.57	17.67	IPR1SAD2LOS
	SPST, Mom, Black, Green LED	679-1117-ND	17.61	16.06	14.51	IPR3SAD2LOG
	SPST, Mom, Black, Red LED	679-1118-ND	17.61	16.06	14.51	IPR3SAD2LOS
	SPST, Mom, Red, Red LED	679-1119-ND	17.61	16.06	14.51	IPR3SAD6LOS
	SPST, On-Off, Green, Green LED	679-1120-ND	21.45	19.57	17.67	IPR1SAD3LOG
	SPST, On-Off, White, Red LED	679-1121-ND	21.45	19.57	17.67	IPR1SAD7/1LOS
2	SPST, On-Off, Black	679-1108-ND	15.88	14.48	13.08	IPC1SAD2
	SPST, Mom, Black	679-1109-ND	14.82	13.52	12.21	IPC3SAD2
	SPST, Mom, Red	679-1110-ND	14.82	13.52	12.21	IPC3SAD6
	SPST, Mom, White	679-1111-ND	15.27	13.92	12.58	IPC3SAD7/1
	SPST, Mom, Green	679-1112-ND	14.82	13.52	12.21	IPC3SAD3
	SPDT, Mom, Black	679-1113-ND	15.88	14.48	13.08	IPC5SAD2
	SPDT, Mom, Red	679-1114-ND	15.88	14.48	13.08	IPC5SAD6
	SPST, On-Off, Black, Red LED	679-1122-ND	21.45	19.57	17.67	IPC1SAD2LOS
	SPST, Mom, Black, Red LED	679-1123-ND	17.61	16.06	14.51	IPC3SAD2LOS
3	SPST, On-Off, Black	679-1124-ND	19.04	17.36	15.68	IPR1FAD2
	SPST, On-Off, Red	679-1125-ND	19.04	17.36	15.68	IPR1FAD6
	SPST, Mom, Black	679-1126-ND	18.29	16.68	15.07	IPR3FAD2
	SPST, Mom, Green	679-1127-ND	18.29	16.68	15.07	IPR3FAD3
	SPST, Mom, Yellow	679-1128-ND	18.29	16.68	15.07	IPR3FAD5
	SPST, Mom, Red	679-1129-ND	18.29	16.68	15.07	IPR3FAD6
	SPDT, Mom, White	679-1130-ND	18.29	16.68	15.07	IPR3FAD7/1
	SPDT, Mom, Black	679-1131-ND	22.47	20.50	18.51	IPR5FAD2
	SPDT, Mom, Green	679-1132-ND	22.47	20.50	18.51	IPR5FAD3
	SPDT, Mom, Yellow	679-1133-ND	22.47	20.50	18.51	IPR5FAD5
	SPDT, Mom, Red	679-1134-ND	22.47	20.50	18.51	IPR5FAD6
	SPDT, Mom, White	679-1135-ND	22.47	20.50	18.51	IPR5FAD7/1
	SPST, On-Off, Black, Green LED	679-1142-ND	26.04	23.75	21.45	IPR1FAD2LOG
	SPST, On-Off, Green, Green LED	679-1143-ND	26.04	23.75	21.45	IPR1FAD3LOG
	SPST, Mom, Black, Green LED	679-1144-ND	21.45	19.57	17.67	IPR3FAD2LOG
	SPST, Mom, Black, Red LED	679-1145-ND	21.45	19.57	17.67	IPR3FAD2LOS
	SPST, Mom, Green, Green LED	679-1146-ND	21.45	19.57	17.67	IPR3FAD3LOG
	SPST, Mom, Red, Red LED	679-1147-ND	21.45	19.57	17.67	IPR3FAD6LOS
4	SPST, On-Off, Red	679-1136-ND	19.04	17.36	15.68	IPC1FAD6
	SPST, Mom, Black	679-1137-ND	18.29	16.68	15.07	IPC3FAD2
	SPST, Mom, Green	679-1138-ND	18.29	16.68	15.07	IPC3FAD3
	SPST, Mom, Red	679-1139-ND	18.29	16.68	15.07	IPC3FAD6
	SPDT, Mom, Black	679-1140-ND	20.23	18.45	16.66	IPC5FAD2
	SPDT, Mom, Red	679-1141-ND	20.23	18.45	16.66	IPC5FAD6

(Continued)

Pushbutton Switches *(Cont.)*

AV Series

Fig. 1

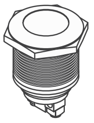

Fig. 2

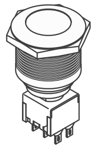

Fig. 3

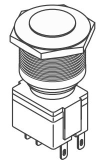

Fig. 4

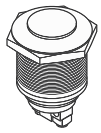

Fig. 5

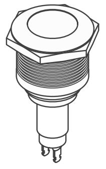

Fig. 6

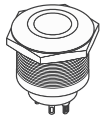

Fig.	Circuit	Switching Function	Ratings	Actuator	Hole Size	Termination	Sealing	Digi-Key Part No.	Price Each			APEM Part No.
									1	25	100	
1	SPST-NO	OFF (ON)	2A 48VDC	Curved	22.2	Screw	IP54	679-1056-ND	15.74	14.36	12.97	AV021003C900
	SPST-NO	OFF (ON)	2A 48VDC	Curved	22.2	Screw	IP65	679-1057-ND	34.75	31.69	28.62	AV021003C900K
	SPST-NO	OFF (ON)	2A 48VDC	Flat	22.2	Screw	IP54	679-1058-ND	15.57	14.20	12.83	AV031003C900
	SPST-NO	OFF (ON)	2A 48VDC	Flat	19.2	Solder Lug	IP54	679-1059-ND	12.58	11.47	10.36	AV091003C200
	SPST-NO	OFF (ON)	2A 48VDC	Flat	19.2	Screw	IP54	679-1060-ND	12.58	11.47	10.36	AV091003C900
	SPST-NO	OFF (ON)	2A 48VDC	Curved	19.2	Screw	IP54	679-1061-ND	11.87	10.82	9.78	AV191003C900
2	SPDT	ON (ON)	6A 125VAC	Curved	22.2	Solder Lug	IP54	679-1064-ND	21.11	19.26	17.39	AV02810KMZQ
	DPDT	ON (ON)	6A 125VAC	Curved	19.2	Solder Lug	IP54	679-1062-ND	21.39	19.50	17.62	AV19820KMZQ
	DPDT	ON (ON)	6A 125VAC	Curved	19.2	Solder Lug	IP65	679-1063-ND	23.12	21.08	19.04	AV19820KMZQK
	DPDT	ON (ON)	6A 125VAC	Curved	22.2	Solder Lug	IP54	679-1065-ND	21.35	19.47	17.59	AV02820KMZQ
3	DPDT	ON ON	6A 125VAC	Curved	22.2	Solder Lug	IP54	679-1066-ND	25.40	23.16	20.92	AV044746A200
4	SPST-NO	OFF (ON)	400mA 48VDC	Flat	16.2	Screw	IP54	679-1067-ND	11.32	10.33	9.33	AV0630C900
	SPST-NO	OFF (ON)	400mA 48VDC	Flat	16.2	Screw	IP65	679-1068-ND	18.29	16.68	15.07	AV0630C900K
5	SPST	ON OFF	.4VA @20V	Flat	19.2	Solder Lug	IP54	679-1069-ND	17.41	15.88	14.34	AV09401ZBE
	SPST	ON OFF	3A 120VAC	Curved	19.2	Solder Lug	IP54	679-1070-ND	18.05	16.47	14.87	AV19401ZQEUL
	SPST	OFF (ON)	3A 120VAC	Curved	19.2	Solder Lug	IP54	679-1071-ND	19.69	17.95	16.22	AV19402ZQE
	SPST	ON OFF	3A 120VAC	Red Mushroom	19.2	Solder Lug	IP54	679-1072-ND	28.36	25.86	23.36	AV49401ZQE6
6	SPST	OFF (ON)	50mA 24VDC	Flat	19.2	Solder Lug	IP54	679-1073-ND	15.84	14.45	13.05	AV09C703D200
	SPST	OFF (ON)	50mA 24VDC	Flat	19.2	Solder Lug	IP65	679-1074-ND	19.55	17.83	16.10	AV09C703D200K
	SPST	OFF (ON)	50mA 24VDC	Flat Blue LED	19.2	Solder Lug	IP65	679-1075-ND	45.42	41.42	37.41	AV09C7L3D2001K
	SPST	OFF (ON)	50mA 24VDC	Flat Green LED	19.2	Solder Lug	IP65	679-1076-ND	52.70	48.05	43.40	AV09C7L3D2003K
	SPST	OFF (ON)	50mA 24VDC	Flat Red LED	19.2	Solder Lug	IP54	679-1077-ND	46.48	42.38	38.28	AV09C7L3D2006
	SPST	OFF (ON)	50mA 24VDC	Curved	19.2	Solder Lug	IP65	679-1078-ND	33.97	30.97	27.98	AV19C703D200K

Joysticks

1000 Series: The 1000 Series are robust, switch joysticks. Based on industry standard V3 and V4 microswitches, they can switch 6A, 10A or up to 16A. The 1000 Series are ideal for general machine control type applications where the user is directing equipment at a predetermined speed. **4000 Series:** The 4000 Series is a range of highly versatile, single, dual, or tri-axial, proportional joysticks. Unlike other potentiometer based joysticks, the 4000 Series has an all-metal mechanism for maximum possible robustness and performance over life. The range employs high quality, plastic conductive film potentiometers as standard, and is designed as a sub-panel mount unit. The 4000 Series is ideally suited to medium duty applications such as electric vehicle control. This series remains the preferred choice for applications which require a life greater than five million cycles and absolute immunity to RFI. **5000 Series:** The 5000 Series is a family of cost optimized, potentiometer joysticks. With particular attention paid to the style of the unit and a low installed depth, these joysticks are ideal for lighter duty applications such as CCTV keyboard control. **9000 Series:** The 9000 Series offers a range of single, dual, or tri-axial products, utilizing contactless sensing to give highly repeatable proportional signals that do not degrade with use. The 9000 Series also offers a range of electronic features including dual decode technology providing for electronic "at-centre" or "internal fault" detect, which makes it the ideal user interface for complex and safety critical applications such as materials handling or power chair control.

Fig. 1

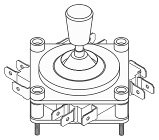

Fig. 2

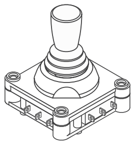

Fig. 3

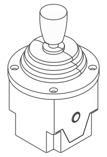

Fig. 4

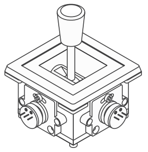

Fig. 5

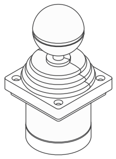

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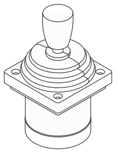

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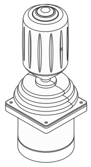

Fig. 8

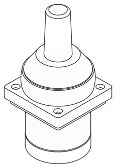

Fig. 9

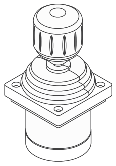

Fig.	Description	Digi-Key Part No.	Price Each			APEM Part No.
			1	25	100	
1000 Series						
1	SPDT, 4-Point, Screw Mount, 16A	679-1404-ND	31.45	26.21	23.24	2V17F1100
	SPDT, 4-Point, Screw Mount, 6A	679-1405-ND	27.25	22.71	20.14	1V15F1100
2	SPDT, 22mm, Bushing Mount, 6A	679-1406-ND	33.07	27.56	24.44	1D15F1500
	DPDT, 22mm, Bushing Mount, 6A	679-1407-ND	58.01	48.35	42.87	1D27F1500
4000 Series						
3	1 Axis, 5K, 55 degrees	679-1408-ND	88.11	73.43	65.11	4R182S1E5500
	2 Axis, 5K, 340 degrees	679-1409-ND	156.32	130.27	115.50	4R252S1E5500
	2 Axis, 5K, 340 degrees with Soft Touch Pushbutton	679-1410-ND	199.29	166.08	147.26	4R252S1N5500
5000 Series						
4	2 Axis, 5K, 220 degrees, Square Bezel	679-1411-ND	93.98	78.32	69.45	5S251S0F1000
	2 Axis, 5K, 220 degrees, Circular Bezel	679-1412-ND	99.92	83.27	73.84	5T251S0F2100
9000 Series						
5	Round Handle, Gloss Phenolic	679-1413-ND	158.72	132.27	117.28	9SA50AC6500
6	Conical Handle, Matte Nylon	679-1414-ND	102.07	85.06	75.42	9SA50RE6500
7	Third Axis + Pushbutton Handle, Hard Anodized Aluminum	679-1415-ND	299.08	249.24	220.99	9SW40RP6559
8	Skirted Handle, Matte Nylon	679-1416-ND	146.35	121.97	108.14	9MA50RQ6295
9	Third Axis Handle, Hard Anodized Aluminum	679-1417-ND	213.08	177.57	157.45	9SA50RR6559
Accessories						
—	USB Interface Module	679-1418-ND	163.78	136.49	121.02	909999
—	USB Cable Assembly	679-1419-ND	7.49	6.25	5.54	919998

A01 and A02 Series Switch Assemblies

A01 Series 16mm

Fig. 1
Pushbutton

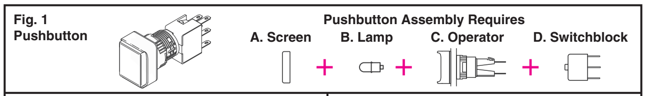

Fig. 2
Keylock

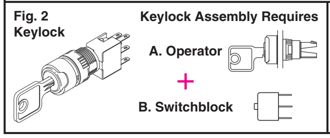

Fig. 3
Emergency Stop

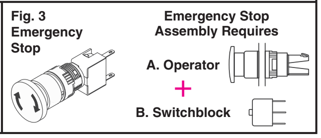

Pushbutton (Fig. 1 – Assembly Options)

Fig.	Bezel	Color	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
			Screens				
1A	Rect.	Red	679-1340-ND	.61	.56	.51	A0161B
		Amber	679-1341-ND	.61	.56	.51	A0161C
		Green	679-1342-ND	.61	.56	.51	A0161E
		Clear	679-1343-ND	.61	.56	.51	A0161G
	Square	Red	679-1344-ND	.61	.56	.51	A0162B
		Amber	679-1345-ND	.61	.56	.51	A0162C
		Green	679-1346-ND	.61	.56	.51	A0162E
		Clear	679-1347-ND	.61	.56	.51	A0162G
	Round	Red	679-1348-ND	.61	.56	.51	A0163B
		Amber	679-1349-ND	.61	.56	.51	A0163C
		Green	679-1350-ND	.61	.56	.51	A0163E
		Clear	679-1351-ND	.61	.56	.51	A0163G

Fig.	Pole	Bezel	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
				Operators				
1C	1 or 2	Rect.	Illum., Alternate Action	679-1305-ND	11.93	10.89	9.83	A0101X
	1 or 2		Illum., Momentary	679-1306-ND	10.71	9.77	8.82	A0101Y
	1 or 2		Non Illum., Momentary	679-1308-ND	10.61	9.68	8.74	A0102Y
	1 or 2		Non Illum., Alternate Action	679-1307-ND	9.32	8.50	7.68	A0102X
	3 or 4		Illum., Alternate Action	679-1309-ND	12.44	11.35	10.25	A0103X
	1 or 2	Square	Illum., Alternate Action	679-1310-ND	11.93	10.89	9.83	A0105X
	1 or 2		Illum., Momentary	679-1311-ND	10.68	9.74	8.80	A0105Y
	1 or 2		Non Illum., Momentary	679-1313-ND	10.61	9.68	8.74	A0106Y
	1 or 2		Non Illum., Alternate Action	679-1312-ND	9.32	8.50	7.68	A0106X
	3 or 4		Illum., Alternate Action	679-1314-ND	12.44	11.35	10.25	A0107X
	1 or 2	Round	Illum., Alternate Action	679-1315-ND	11.93	10.89	9.83	A0109X
	1 or 2		Illum., Momentary	679-1316-ND	10.68	9.74	8.80	A0109Y
	1 or 2		Non Illum., Momentary	679-1318-ND	10.61	9.68	8.74	A0110Y
	1 or 2		Non Illum., Alternate Action	679-1317-ND	9.52	8.68	7.84	A0110X
	3 or 4		Illum., Alternate Action	679-1319-ND	12.44	11.35	10.25	A0111X

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
		Switchblocks				
1D or 2B	Single Pole, 6A	679-1335-ND	8.64	7.88	7.12	A0151B
	Double Pole, 6A	679-1336-ND	12.44	11.35	10.25	A0152B
	Three Pole, 6A	679-1339-ND	21.28	19.41	17.53	A0155B
	Four Pole, 6A	679-1337-ND	25.91	23.63	21.34	A0153B

Keylock (Fig. 2 – Assembly Options)

Fig.	Pole	Bezel	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
				Operators				
2A	1 or 2	Round	2 Position, Alternate Action	679-1357-ND	33.90	30.91	27.92	A018323
	1 or 2		2 Position, Alternate Action	679-1352-ND	33.90	30.91	27.92	A018301
	1 or 2		2 Position, Momentary	679-1353-ND	33.90	30.91	27.92	A018302
	3 or 4		2 Position, Alternate Action	679-1354-ND	33.90	30.91	27.92	A018303
	1 or 2		3 Position, Momentary	679-1355-ND	33.90	30.91	27.92	A018306
	1 or 2		3 Position, mainL, MomR	679-1356-ND	33.90	30.91	27.92	A018307

Emergency Stop (Fig. 3 – Assembly Options)

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
		Operators				
3A	24mm Emergency Stop	679-1358-ND	12.92	11.78	10.64	A01ES
	40mm Emergency Stop	679-1359-ND	21.28	19.41	17.53	A01ESSP3
		Switchblocks				
3B	Emergency Block, Single Pole, 1.5A	679-1334-ND	8.91	8.13	7.34	A0150B
	Emergency Block, Double Pole, 1.5A	679-1338-ND	13.87	12.65	11.43	A0154B

Lamps for A01 and A02 Series (Fig. 1)

Fig.	Lamp	Voltage (V)	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
			Lamps				
1B	Filament	14	679-1320-ND	2.35	2.14	1.94	A0141B
	Filament	28	679-1321-ND	2.35	2.14	1.94	A0141C
	Neon	110	679-1332-ND	8.64	7.88	7.12	A0143G
	Neon	220	679-1333-ND	8.64	7.88	7.12	A0143H
	LED Red	12	679-1322-ND	17.03	15.54	14.03	A0142M1
	LED Green	12	679-1323-ND	17.03	15.54	14.03	A0142M2
	LED Amber	12	679-1324-ND	17.03	15.54	14.03	A0142M3
	LED Blue	12	679-1325-ND	40.94	37.33	33.72	A0142M4
	LED White	12	679-1326-ND	40.94	37.33	33.72	A0142M5
	LED Red	24	679-1327-ND	17.03	15.54	14.03	A0142N1
	LED Green	24	679-1328-ND	17.03	15.54	14.03	A0142N2
	LED Amber	24	679-1329-ND	17.03	15.54	14.03	A0142N3
	LED Blue	24	679-1330-ND	40.94	37.33	33.72	A0142N4
	LED White	24	679-1331-ND	40.94	37.33	33.72	A0142N5

A02 Series 22mm

Fig. 1
Pushbutton

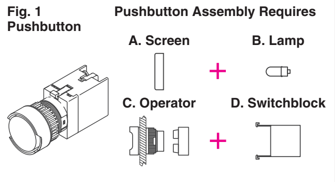

Fig. 2
Emergency Stop

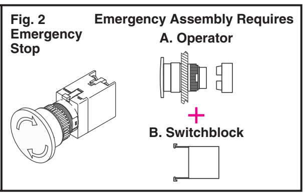

Pushbutton (Fig. 1 – Assembly Options)

Fig.	Bezel	Color	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
			Screens				
1A	Rect.	Red	679-1385-ND	.71	.66	.59	A0261B
		Amber	679-1386-ND	.71	.66	.59	A0261C
		Green	679-1387-ND	.71	.66	.59	A0261E
		Blue	679-1388-ND	.71	.66	.59	A0261F
		Clear	679-1389-ND	.71	.66	.59	A0261G
	Square	Red	679-1390-ND	.71	.66	.59	A0262B
		Amber	679-1391-ND	.71	.66	.59	A0262C
		Green	679-1392-ND	.71	.66	.59	A0262E
		Blue	679-1393-ND	.71	.66	.59	A0262F
		Clear	679-1394-ND	.71	.66	.59	A0262G
	Round	Red	679-1395-ND	.71	.66	.59	A0263B
		Amber	679-1396-ND	.71	.66	.59	A0263C
		Green	679-1397-ND	.71	.66	.59	A0263E
		Blue	679-1398-ND	.71	.66	.59	A0263F
		Clear	679-1399-ND	.71	.66	.59	A0263G

Fig.	Bezel	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
			Operators				
1C	Rect.	Illum., Alternate Action	679-1364-ND	17.51	15.97	14.42	A0201X
		Illum., Momentary	679-1365-ND	15.67	14.30	12.91	A0201Y
		Non Illum., Alternate Action	679-1366-ND	13.70	12.50	11.29	A0203X
		Non Illum., Momentary	679-1367-ND	11.83	10.79	9.75	A0203Y
	Square	Illum., Alternate Action	679-1368-ND	19.04	17.36	15.68	A0204X
		Illum., Momentary	679-1369-ND	17.54	16.00	14.45	A0204Y
		Non Illum., Alternate Action	679-1370-ND	15.30	13.95	12.60	A0206X
		Non Illum., Momentary	679-1371-ND	13.80	12.59	11.37	A0206Y
	Round	Illum., Alternate Action	679-1372-ND	19.04	17.36	15.68	A0207X
		Illum., Momentary	679-1373-ND	17.54	16.00	14.45	A0207Y
		Non Illum., Alternate Action	679-1374-ND	15.30	13.95	12.60	A0209X
		Non Illum., Momentary	679-1375-ND	13.80	12.59	11.37	A0209Y

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
		Switchblock				
1D	1 Normally Open, 12A	679-1376-ND	11.46	10.45	9.44	A02501
	1 Normally Closed, 12A	679-1377-ND	11.46	10.45	9.44	A02502
	2 Normally Open, 12A	679-1378-ND	18.12	16.53	14.93	A02503
	2 Normally Closed, 12A	679-1379-ND	18.12	16.53	14.93	A02504
	1 NO / 1NC, 12A	679-1380-ND	18.12	16.53	14.93	A02505
		Second Switchblock				
1D	1 Normally Open, 12A	679-1381-ND	11.46	10.45	9.44	A02506
	1 Normally Closed, 12A	679-1382-ND	11.46	10.45	9.44	A02507

Emergency Stop (Fig. 2 – Assembly Options)

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
		Operators				
2A	40mm Emergency Stop	679-1400-ND	17.37	15.85	14.31	A02ES

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
		Switchblock				
2B	Emergency Block, Single Pole	679-1384-ND	12.21	11.13	10.06	A02512
	Emergency Block, Double Pole	679-1383-ND	19.35	17.64	15.94	A02511

Accessories

Fig. 1 — Stop Plate

Fig. 2 — Flapguard

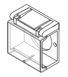

Fig. 3 — Antirotation Ring

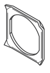

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	APEM Part No.
1	Yellow Adhesive Label, 60mm for A01 Series	679-1363-ND	2.75	2.52	2.27	A01YL1
1	Yellow Adhesive Label, 90mm for A02 Series	679-1401-ND	4.93	4.50	4.06	A02YL1
2	Flapguard, Rectangular for A01 Series	679-1360-ND	6.05	5.52	4.99	A01FG1
2	Flapguard, Square/Round for A01 Series	679-1361-ND	6.05	5.52	4.99	A01FG2
3	Anti Rotation Ring for A01 Series	679-1362-ND	.99	.90	.82	A01LW
—	Fixing Nut Key for A01 and A02 Series	679-1402-ND	6.15	5.62	5.07	30-0001
—	Bulb Remover for A01 and A02 Series	679-1403-ND	4.08	3.72	3.36	30-0002

C&K

Industrial Control Switches

LUMOTAST 75

Specifications: ***Mechanical:*** • Mounting: Ring nut • Terminals: Tin-plated solder • Contact material: Silver ***Electrical:*** • Maximum DC Voltage: 220V • Maximum rated AC voltage: 4A • Maximum contact resistance: 200mΩ • Operating temperature range: -25°C ~ 70°C

Assembly requires Switch + Lamp + Lens + Diffuser

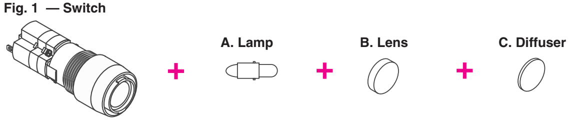

Switches

Fig.	Description	Digi-Key Part No.	Price Each			C&K Part No.
			1	25	100	
	Switches					
	Round					
1	Momentary, 1NC + 1NO	CKN9387-ND	20.05	17.32	14.58	1.15108.4510000
	Latching, 1NC + 1NO	CKN9388-ND	24.66	21.30	17.94	1.15108.5510000
	Momentary, 2NC + 2NO	CKN9389-ND	30.10	26.00	21.89	1.15108.4520000
	Latching, 2NC + 2NO	CKN9390-ND	33.42	28.87	24.31	1.15108.5520000
	Square					
1	Momentary, 1NC + 1NO	CKN9391-ND	20.25	17.49	14.73	1.15108.2510000
	Latching, 1NC + 1NO	CKN9392-ND	24.18	20.89	17.59	1.15108.3510000
	Momentary, 2NC + 2NO	CKN9236-ND	41.04	32.84	26.00	1.15108.2520000
	Latching, 2NC + 2NO	CKN9393-ND	34.07	29.43	24.78	1.15108.3520000
	Rectangular					
1	Momentary, 1NC + 1NO	CKN9394-ND	20.05	17.32	14.58	1.15108.0510000
	Latching, 1NC + 1NO	CKN9395-ND	24.43	21.10	17.77	1.15108.1510000
	Momentary, 2NC + 2NO	CKN9237-ND	41.04	32.84	26.00	1.15108.0520000
	Latching, 2NC + 2NO	CKN9396-ND	33.42	28.87	24.31	1.15108.1520000
	Accessories					
	Lamps					
1A	Filament Lamp, 12V	CKN9231-ND	6.22	4.98	3.94	1.90100.0220000
	Filament Lamp, 24V	CKN9232-ND	7.08	5.67	4.49	1.90100.0230000
—	LED, Superbright Red, 24V	CKN9386-ND	13.88	12.00	10.10	1.90690.3310000
	LED, Superbright Green, 24V	CKN9233-ND	25.94	20.76	16.43	1.90690.3320000
	LED, Red, 3V	CKN9234-ND	7.36	5.89	4.67	1.90692.0010000
	LED, Green, 3V	CKN9235-ND	7.51	6.01	4.76	1.90692.0020000
	Lenses					
1B	Round, Colorless, for Filament or LED	CKN9376-ND	1.12	.90	.71	5.49257.0111002
	Round, Red, for LED	CKN9214-ND	1.12	.90	.71	5.49257.0111301
	Round, Red, for Filament Lamp	CKN9377-ND	1.12	.90	.71	5.49257.0111303
	Round, Yellow, for Filament or LED	CKN9215-ND	1.12	.90	.71	5.49257.0111402
	Round, Green, for Filament Lamp	CKN9216-ND	1.12	.90	.71	5.49257.0111502
	Round, Green, for LED	CKN9217-ND	1.12	.90	.71	5.49257.0111503
	Round, Blue, for Filament Lamp	CKN9218-ND	1.12	.90	.71	5.49257.0111601
	Square, Colorless, for Filament or LED	CKN9378-ND	.96	.77	.61	5.49275.0361002
	Square, Red, for LED	CKN9219-ND	.96	.77	.61	5.49275.0361301
	Square, Red, for Filament Lamp	CKN9379-ND	.96	.77	.61	5.49275.0361303
	Square, Yellow, for Filament or LED	CKN9220-ND	.96	.77	.61	5.49275.0361402
	Square, Green, for Filament Lamp	CKN9380-ND	.96	.77	.61	5.49275.0361502
	Square, Green, for LED	CKN9221-ND	.96	.77	.61	5.49275.0361503
	Square, Blue, for Filament Lamp	CKN9222-ND	.96	.77	.61	5.49275.0361601
	Rectangular, Colorless, for Filament or LED	CKN9381-ND	.96	.77	.61	5.49275.0321002
	Rectangular, Red, for LED	CKN9223-ND	.96	.77	.61	5.49275.0321301
	Rectangular, Red, for Filament Lamp	CKN9382-ND	.96	.77	.61	5.49275.0321303
	Rectangular, Yellow, for Filament or LED	CKN9224-ND	.96	.77	.61	5.49275.0321402
	Rectangular, Green, for Filament Lamp	CKN9383-ND	.96	.77	.61	5.49275.0321502
	Rectangular, Green, for LED	CKN9225-ND	.96	.77	.61	5.49275.0321503
	Rectangular, Blue, for Filament Lamp	CKN9226-ND	.96	.77	.61	5.49275.0321601
	Diffusers					
1C	Round, for Filament Lamp	CKN9384-ND	.72	.58	.46	5.72050.0000202
	Round, for LED	CKN9227-ND	.72	.58	.46	5.72050.0000214
	Square, for Filament Lamp	CKN9385-ND	.73	.59	.46	5.73013.0000202
	Square, for LED	CKN9228-ND	.73	.59	.46	5.73013.0000214
	Rectangular, for Filament Lamp	CKN9229-ND	.73	.59	.46	5.73012.0000202
	Rectangular, for LED	CKN9230-ND	.73	.59	.46	5.73012.0000214
	Tools					
—	Lamp Extractor for 3V LED	CKN9239-ND	9.11	7.29	5.77	1.90900.0010000
	Lamp Extractor for Filament Lamp	CKN9238-ND	8.54	6.84	5.41	1.90900.0020000
	Lamp Extractor for 24V LED	CKN9240-ND	8.37	6.70	5.31	1.90900.0040000
	Fixing Spanner	CKN9241-ND	2.62	2.10	1.66	5.58002.0190105

RAFIX 16

RAFIX 16 is a complete control component series for a mounting hole diameter of 16.2mm. It enables you to design attractive control panels with a minimum of space requirements and at the same time sufficiently large actuating areas.

Specifications: • Degree of protection: IP 65 on panel • Grid spacing: 25mm x 25mm • Height from front panel: 7mm (Low profile design) • Operating temperature: Non-Illuminated: -25°C ~ 70°C; Illuminated: -25°C ~ 55°C • Storage temperature: -40°C ~ 85°C

Assembly requires Switch + Lamp + Contact Block

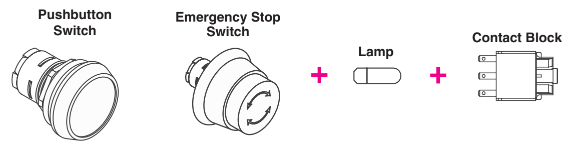

Description	Digi-Key Part No.	Price Each			C&K Part No.
		1	25	100	
Switches					
Round Pushbutton Switches					
Transparent, Red Illuminated	CKN9398-ND	15.14	12.12	9.59	1.30070.0211306
Transparent, Yellow Illuminated	CKN9256-ND	15.14	12.12	9.59	1.30070.0211403
Transparent, Green Illuminated	CKN9257-ND	15.14	12.12	9.59	1.30070.0211505
Opaque black	CKN9258-ND	12.80	10.25	8.11	1.30070.2710100
Opaque Red	CKN9259-ND	12.80	10.25	8.11	1.30070.2710300
Square Pushbutton Switches					
Transparent, colorless Illuminated	CKN9260-ND	15.14	12.12	9.59	1.30070.0011002
Transparent, Red Illuminated	CKN9261-ND	15.14	12.12	9.59	1.30070.0011306
Transparent, Yellow Illuminated	CKN9262-ND	15.14	12.12	9.59	1.30070.0011403
Transparent, Green Illuminated	CKN9263-ND	15.14	12.12	9.59	1.30070.0011505
Opaque White	CKN9264-ND	12.02	9.62	7.61	1.30070.2510200
Opaque Red	CKN9265-ND	12.02	9.62	7.61	1.30070.2510300
Opaque Yellow	CKN9266-ND	12.02	9.62	7.61	1.30070.2510400
Opaque Green	CKN9267-ND	12.02	9.62	7.61	1.30070.2510500
Emergency Stop Switches					
Opaque Red, with Yellow Collar	CKN9399-ND	33.61	29.03	24.45	1.30074.8210000
Opaque Red, with Yellow Collar, conical	CKN9268-ND	46.05	36.84	29.17	1.30074.2810300
Accessories					
Lamps					
Filament Lamp, 12V	CKN9243-ND	2.69	2.15	1.71	1.90120.0120000
Filament Lamp, 24V	CKN9242-ND	3.10	2.48	1.97	1.90120.0110000
Contact Blocks					
Momentary, 1NC + 1NO, with Lamp Socket	CKN9244-ND	19.02	15.22	12.05	1.20122.0010000
Momentary, 2NO, with Lamp Socket	CKN9245-ND	19.58	15.67	12.41	1.20122.0020000
Momentary, 2NC, with Lamp Socket	CKN9246-ND	18.83	15.07	11.93	1.20122.0030000
Latching, 1NC + 1NO, with Lamp Socket	CKN9247-ND	28.93	23.15	18.33	1.20122.0410000
Latching, 2NO, with Lamp Socket	CKN9248-ND	28.36	22.69	17.97	1.20122.0420000
Momentary, 1NC + 1NO, without Lamp Socket	CKN9249-ND	15.13	12.11	9.58	1.20122.0210000
Momentary, 2NO, without Lamp Socket	CKN9250-ND	15.58	12.47	9.87	1.20122.0220000
Momentary, 2NC, without Lamp Socket	CKN9251-ND	15.73	12.59	9.97	1.20122.0230000
Latching, 1NC + 1NO, without Lamp Socket	CKN9252-ND	18.83	15.07	11.93	1.20122.0610000
Latching, 2NO, without Lamp Socket	CKN9253-ND	19.21	15.37	12.17	1.20122.0620000
Momentary, 1NC + 1NO, Universal	CKN9254-ND	19.38	15.51	12.28	1.20123.0210000
Momentary, 1NC, Universal	CKN9397-ND	13.67	10.94	8.66	1.20123.0220000
Momentary, 2NC, Universal	CKN9255-ND	19.00	15.20	12.04	1.20123.0240000
Labels for Emergency Stop Switches					
Yellow, NOT-AUS, 60mm Diameter	CKN9269-ND	6.29	5.04	3.99	5.76204.4010400
Yellow, Emergency Stop, 60mm Diameter	CKN9270-ND	6.29	5.04	3.99	5.76204.4030400

(Continued)

RAFIX 22 FS

The RAFIX 22 FS control component range can be combined on a common printed circuit board together with short-travel keys and other components thanks to its extremely small mounting depth of 9.2mm The actuators and signal indicators are fastened to a front panel with a threaded ring in a 22.3mm panel cut-out. The contact blocks are soldered onto the PCB.

Illumination of the actuator is provided by a 3mm LED inserted into the base of the contact block and soldered to the PCB together with the contact block.

Assembly requires Switch + Contact Block

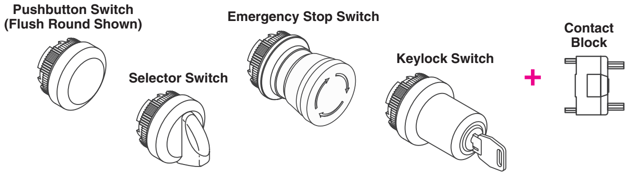

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Switches					
Flush Round Pushbutton, Momentary					
Transparent White, Illuminated	CKN9277-ND	13.42	10.74	8.50	1.30250.0211000
Transparent Red, Illuminated	CKN9278-ND	13.42	10.74	8.50	1.30250.0211300
Transparent Yellow, Illuminated	CKN9279-ND	13.42	10.74	8.50	1.30250.0211400
Transparent Green, Illuminated	CKN9280-ND	13.42	10.74	8.50	1.30250.0211500
Transparent Blue, Illuminated	CKN9281-ND	13.42	10.74	8.50	1.30250.0211600
Opaque Black	CKN9282-ND	9.02	7.22	5.71	1.30250.1210100
Opaque White	CKN9283-ND	9.02	7.22	5.71	1.30250.1210200
Opaque Red	CKN9284-ND	9.02	7.22	5.71	1.30250.1210300
Opaque Yellow	CKN9285-ND	9.02	7.22	5.71	1.30250.1210400
Opaque Green	CKN9286-ND	9.02	7.22	5.71	1.30250.1210500
Flush Round Pushbutton, Latching					
Transparent Red, Illuminated	CKN9287-ND	24.17	19.34	15.31	1.30250.0311300
Transparent Green, Illuminated	CKN9288-ND	24.17	19.34	15.31	1.30250.0311500
Opaque Black	CKN9289-ND	19.06	15.25	12.08	1.30250.1310100
Opaque Red	CKN9290-ND	19.06	15.25	12.08	1.30250.1310300
Opaque Green	CKN9291-ND	19.06	15.25	12.08	1.30250.1310500
Protruding Round Pushbutton, Momentary					
Transparent White, Illuminated	CKN9292-ND	25.08	20.07	15.89	1.30250.2211000
Transparent Red, Illuminated	CKN9293-ND	25.08	20.07	15.89	1.30250.2211300
Transparent Green, Illuminated	CKN9294-ND	25.08	20.07	15.89	1.30250.2211500
Opaque Red	CKN9295-ND	9.75	7.80	6.18	1.30250.3210300
Opaque Green	CKN9296-ND	9.75	7.80	6.18	1.30250.3210500
Flush Square Pushbutton, Momentary					
Transparent Red, Illuminated	CKN9297-ND	13.68	10.95	8.67	1.30250.0711300
Transparent Green, Illuminated	CKN9298-ND	13.68	10.95	8.67	1.30250.0711500
Transparent Blue, Illuminated	CKN9299-ND	13.68	10.95	8.67	1.30250.0711600
Selector Switches					
Momentary 1° x 40° Illuminated	CKN9300-ND	27.91	22.33	17.68	1.30252.0022200
Momentary 2° x 40° Illuminated	CKN9301-ND	27.91	22.33	17.68	1.30252.0272200
Latching 1° x 90° Form L, Illuminated	CKN9302-ND	27.91	22.33	17.68	1.30252.1022200
Latching 1° x 90° Form V, Illuminated	CKN9303-ND	27.91	22.33	17.68	1.30252.2022200
Latching 2° x 60° Illuminated	CKN9304-ND	27.91	22.33	17.68	1.30252.3022200
Momentary 1° x 40°	CKN9305-ND	20.56	16.45	13.02	1.30252.5020200
Momentary 2° x 40°	CKN9306-ND	20.56	16.45	13.02	1.30252.5270200
Latching 1° x 90° Form L	CKN9307-ND	20.56	16.45	13.02	1.30252.6020200
Latching 1° x 90° Form V	CKN9308-ND	20.56	16.45	13.02	1.30252.7020200
Latching 2° x 60°	CKN9309-ND	20.56	16.45	13.02	1.30252.8020200
Keylock Switches					
Momentary 1° x 40°, Key Removable pos. 0	CKN9310-ND	49.47	39.58	31.34	1.30255.0020000
Momentary 2° x 40°, Key Removable pos. 0	CKN9311-ND	49.47	39.58	31.34	1.30255.1020000
Latching 1° x 90° Form L, Key Removable pos. 0+1	CKN9312-ND	49.47	39.58	31.34	1.30255.2220000
Latching 1°x 90° Form V, Key Removable pos. 0+1	CKN9313-ND	49.47	39.58	31.34	1.30255.3220000
Latching 2° x 90°, Key Removable pos. 0+1+2	CKN9314-ND	49.47	39.58	31.34	1.30255.4320000
Emergency Stop Switches					
30mm Diameter, Red	CKN9402-ND	26.38	22.79	19.19	1.30253.5010300
30mm Diameter, Red, Illuminated	CKN9315-ND	40.36	32.29	25.57	1.30253.0010300
Accessories					
Contact Blocks					
Universal, 1NC	CKN9271-ND	12.59	10.08	7.98	1.20126.0010000
Universal, 1NO	CKN9272-ND	12.11	9.69	7.68	1.20126.0020000
Universal, 1NC + 1NO	CKN9400-ND	14.40	12.44	10.48	1.20126.0030000
Universal, 2NC	CKN9273-ND	20.42	16.34	12.94	1.20126.0040000
Universal, 2NO	CKN9274-ND	19.64	15.72	12.44	1.20126.0050000
Emergency Stop, 1NC	CKN9275-ND	12.59	10.08	7.98	1.20126.4010000
Emergency Stop, 1NC + 1NO	CKN9401-ND	14.69	12.69	10.69	1.20126.4030000
Emergency Stop, 2NC	CKN9276-ND	14.40	12.44	10.48	1.20126.4040000

RAFIX 22 QR

The RAFIX 22 QR control component range meets all the technical requirements and current standards for control gear.

The system is of modular design. Actuators, contact blocks and lamp sockets can be combined freely. This means that you may implement modifications of design or configuration even at the last minute.

Assembly requires Switch + Lamp + Contact Block + Coupling

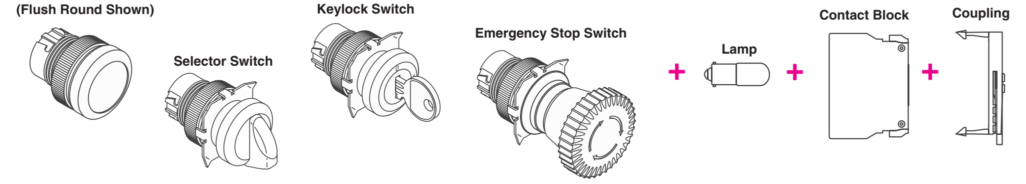

Description	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
Switches					
Flush Round Pushbutton, Momentary					
Transparent White, Illuminated	CKN9329-ND	13.74	10.99	8.71	1.30240.0211000
Transparent Red, Illuminated	CKN9330-ND	13.74	10.99	8.71	1.30240.0211300
Transparent Yellow, Illuminated	CKN9331-ND	13.74	10.99	8.71	1.30240.0211400
Transparent Green, Illuminated	CKN9332-ND	13.74	10.99	8.71	1.30240.0211500
Opaque White	CKN9333-ND	9.12	7.30	5.78	1.30240.1210200
Opaque Red	CKN9334-ND	9.12	7.30	5.78	1.30240.1210300
Opaque Yellow	CKN9335-ND	9.12	7.30	5.78	1.30240.1210400
Opaque Green	CKN9336-ND	9.12	7.30	5.78	1.30240.1210500
Protruding Round Pushbutton, Momentary					
Transparent White, Illuminated	CKN9337-ND	14.55	11.64	9.22	1.30240.2211000
Transparent Red, Illuminated	CKN9338-ND	14.55	11.64	9.22	1.30240.2211300
Transparent Yellow, Illuminated	CKN9339-ND	14.55	11.64	9.22	1.30240.2211400
Opaque White	CKN9340-ND	9.82	7.86	6.23	1.30240.3210200
Opaque Red	CKN9341-ND	9.82	7.86	6.23	1.30240.3210300
Opaque Yellow	CKN9342-ND	9.82	7.86	6.23	1.30240.3210400
Opaque Green	CKN9343-ND	9.82	7.86	6.23	1.30240.3210500
Selector Switches					
Momentary 1° x 40°, Illuminated	CKN9344-ND	27.92	22.34	17.68	1.30242.0022200
Momentary 2° x 40°, Illuminated	CKN9345-ND	27.92	22.34	17.68	1.30242.0272200
Latching 1° x 90°, Form L, Illuminated	CKN9346-ND	26.84	21.48	17.00	1.30242.1022200
Latching 1° x 90°, Form V, Illuminated	CKN9347-ND	27.65	22.12	17.51	1.30242.2022200
Latching 2° x 60°, Illuminated	CKN9348-ND	27.92	22.34	17.68	1.30242.3022200
Momentary 1° x 40°	CKN9349-ND	20.56	16.45	13.03	1.30242.5020200
Momentary 2° x 40°	CKN9350-ND	20.56	16.45	13.03	1.30242.5270200
Latching 1° x 90°, Form L	CKN9351-ND	19.77	15.82	12.53	1.30242.6020200
Latching 1° x 90°, Form V	CKN9352-ND	20.56	16.45	13.03	1.30242.7020200
Latching 2° x 60°	CKN9353-ND	20.56	16.45	13.03	1.30242.8020200
Keylock Switches					
Momentary 1° x 40°, Key Removable pos. 0	CKN9354-ND	49.47	39.58	31.34	1.30245.0020000
Latching 1° x 90°, Form L, Key Removable pos. 0+1	CKN9355-ND	48.03	38.43	30.42	1.30245.2220000
Latching 1° x 90°, Form V, Key Removable pos. 0+1	CKN9356-ND	49.47	39.58	31.34	1.30245.3220000
Latching 2° x 90°, Key Removable pos. 0+1+2	CKN9357-ND	49.92	39.94	31.62	1.30245.4320000
Mushroom Head Pushbutton Switches					
Momentary, Opaque Red 40mm dia.	CKN9358-ND	19.45	15.56	12.32	1.30246.5020300
Latching, Opaque Red 40mm dia.	CKN9359-ND	30.48	24.39	19.31	1.30246.5120300
Emergency Stop Switches					
Opaque Red, 39.8mm dia.	CKN9407-ND	25.63	22.14	18.64	1.30243.5010300
Opaque Red, 39.8mm dia., Illuminated	CKN9360-ND	41.13	32.91	26.05	1.30243.0010300
Accessories					
Lamps					
Filament Lamp, 12 ~ 15V	CKN9316-ND	4.78	3.83	3.03	1.90060.1320000
Filament Lamp, 24 ~ 30V	CKN9403-ND	4.49	3.60	2.85	1.90060.1330000
Filament Lamp, 110 ~ 130V	CKN9317-ND	9.58	7.67	6.07	1.90060.1370000
Neon Lamp, 220VAC	CKN9318-ND	14.61	11.69	9.26	1.90560.1020000
LED, Superbright Red, 24V	CKN9404-ND	15.53	13.42	11.30	1.90690.3410000
LED, Superbright Green, 24V	CKN9319-ND	29.07	23.26	18.42	1.90690.3420000
LED, Superbright Yellow, 24V	CKN9320-ND	20.36	16.30	12.90	1.90690.3430000
LED, Superbright White, 24V	CKN9321-ND	30.24	24.19	19.16	1.90690.3450000
Lamp Extractor for 22QR	CKN9322-ND	8.71	6.97	5.52	1.90690.0070000
Lamp Socket, Screw Terminal	CKN9327-ND	10.13	8.10	6.42	5.00070.0740000
Contact Blocks					
Screw Terminals, 1NC	CKN9323-ND	10.48	8.39	6.64	5.00100.1390000
Screw Terminals, 1NO	CKN9324-ND	10.48	8.39	6.64	5.00100.1400000
Screw Terminals, 2NC	CKN9325-ND	17.66	14.13	11.19	5.00100.1410000
Screw Terminals, 2NO	CKN9326-ND	17.32	13.86	10.97	5.00100.1420000
Screw Terminals, 1NC + 1NO	CKN9405-ND	12.70	10.97	9.24	5.00100.1430000
Couplings					
Coupling, with Reference Numbers 1-3-2	CKN9406-ND	2.12	1.70	1.35	5.05510.9350000
Coupling, with Reference Numbers 1/2-5/6-3/4	CKN9328-ND	2.18	1.75	1.39	5.05510.9360000

SCHURTER ELECTRONIC COMPONENTS

Vandal-Proof MSM Switches

RoHS COMPLIANT

Both the housing and the actuator of the vandal-proof MSM switches are made of high-quality stainless steel. Use of this stable and weather-resistant material means that the switch is particularly suitable for use in harsh environments. The MSM switch is equipped with flat-pin plugs to permit fast connection. The cables are plugged onto the micro switch, and this is subsequently plugged onto the previously screwed in switch. Point and ring illuminated versions are available for applications at night or as an optical status display. **Electrical Specifications:** • Contact Material: Silver • Maximum switching voltage: 125V • Minimum Switching Voltage: 5V • Maximum Switching Current: 5A • Rated Braking Capacity: 1250W • Life Time (160mA @ 48VDC): 1,500,000 • Initial Contact Resistance: <30mΩ • Insulation Resistance: >100,000kΩ • Contact Bounce Time: <5ms • Supply Voltage (Ring Illumination Types): 24VDC • Electrical Rating: 5A @ 125VAC **Mechanical Specifications:** • Actuating Force: 3.7N • Actuating Travel: 0.8mm • Operating Temperature Range: -25°C ~ 85°C • IP Rating: IP67 • Shock Resistance (IK) Protection Rating (16mm diameter): IK06; (19 ~ 30mm diameter): IK07

Fig. 1

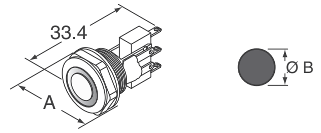

Mounting Diameter (mm)	Dimensions (mm)	
	A	B
16	19	M16 x 1
19	22	M19 x 0.75
22	25	M22 x 1

Fig. 2

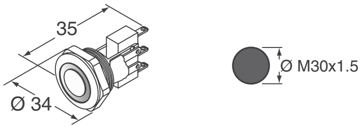

Standard (Non-Illuminated) and Ring Illumination Types

Fig.	Mounting Diameter mm	Ring Color	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
1	16	—	486-1182-ND	14.16	11.33	10.20	1241.6611.1120000
	19	—	486-1183-ND	14.83	11.87	10.68	1241.6621.1120000
		Red	486-1184-ND	44.45	35.56	32.01	1241.6624.1121000
		Green	486-1185-ND	44.45	35.56	32.01	1241.6624.1122000
		Blue	486-1191-ND	47.61	38.09	34.28	1241.6624.1124000
	22	—	486-1186-ND	16.75	13.40	12.06	1241.6631.1120000
		—	486-1132-ND▲	19.51	15.61	14.05	1241.6695.1120000
		Red	486-1187-ND	46.19	36.96	33.26	1241.6634.1121000
		Green	486-1188-ND	46.19	36.96	33.26	1241.6634.1122000
		Blue	486-1192-ND	49.49	39.60	35.64	1241.6634.1124000

Fig.	Mounting Diameter (mm)	Ring Color	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
2	30	—	486-1193-ND	26.82	21.46	19.31	1241.6661.1120000
		Blue	486-1131-ND	56.24	45.00	40.50	1241.6664.1124000

▲ Snap-In version

Point Illumination Types

Fig.	Mounting Diameter (mm)	Illum-inator Color	I_F Max. (mA)	V_F @ 10mA Typ.(V)	V_F Max.(V)	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
1	19	Blue	20	3.2	3.7	486-1189-ND	30.55	24.44	22.00	1241.6623.1124000
	22	Red	40	1.6	2.0	486-1133-ND▲	33.38	26.71	24.04	1241.6693.1121000
		Green	40	2.0	2.6	486-1134-ND▲	33.38	26.71	24.04	1241.6693.1122000
		Blue	20	3.2	3.7	486-1190-ND	30.69	24.55	22.10	1241.6633.1124000

▲ Snap-In version

BULGIN

Vandal Resistant Panel Mount Switches

RoHS COMPLIANT

Fig. 1

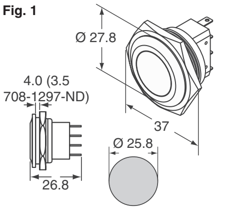

Fig. 2

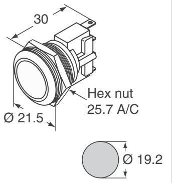

Fig. 3

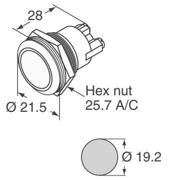

Fig. 4

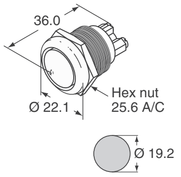

Fig. 5

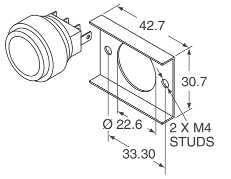

Fig. 6

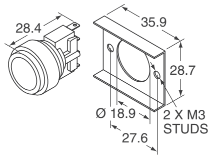

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Fig. 7

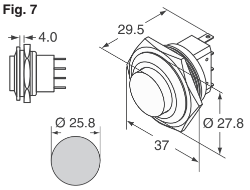

Fig. 8

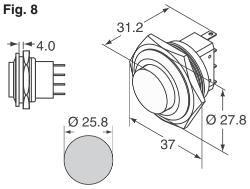

Fig. 9

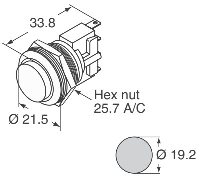

Fig. 10

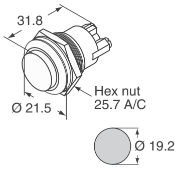

Fig. 11

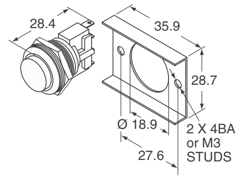

Fig. 12

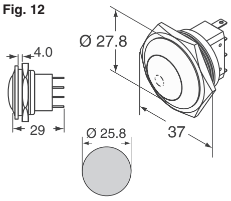

Fig. 13

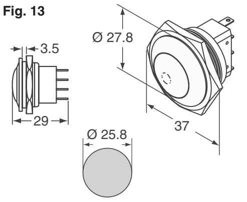

Fig. 14

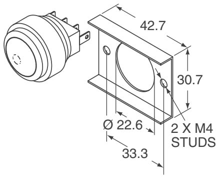

Fig. 15

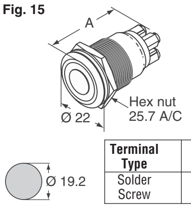

Terminal Type	Dim. A (mm)
Solder	32.7
Screw	31.0

Fig. 16

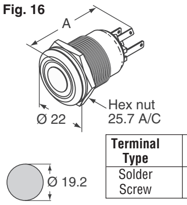

Terminal Type	Dim. A (mm)
Solder	32.7
Screw	31.0

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
1	Low Profile, 5A, Solder Terminals	708-1294-ND	18.06	17.03	16.02	MP0027
	Low Profile, 5A, IP66 Rated, Solder Terminals	708-1297-ND	18.14	17.12	16.14	MP0038
2	Low Profile, 5A, IP66 Rated, Solder Terminals	708-1300-ND	16.26	15.34	14.42	MP0031
	Domed, 5A, IP66 Rated, Solder Terminals	708-1302-ND	20.31	18.65	16.58	MP0031/3
3	Low Profile, 1A, Screw Terminals	708-1303-ND	10.81	10.17	9.53	MP0037
	Domed, 1A, IP68 Rated, Screw Terminals	708-1305-ND	14.99	13.77	12.24	MP0037/3
4	Proud Fitting, 1A, Screw Terminals	708-1306-ND	7.77	7.33	6.91	MP0013
5	Low Profile, 5A, Solder Terminals	708-1307-ND§	18.06	17.03	16.02	MP0025
6	Low Profile, 5A, Solder Terminals	708-1309-ND§	15.78	15.14	14.42	MP0034
	Domed, 5A, Solder Terminals	708-1311-ND§	20.31	18.65	16.58	MP0034/3
7	Prominent Button, 5A, Solder Terminals	708-1295-ND	21.37	19.63	17.45	MP0027/2
8	Prominent Button, 5A, IP66 Rated, Solder Terminals	708-1298-ND	22.24	20.43	18.16	MP0038/2
9	Prominent Button, 5A, IP66 Rated, Solder Terminals	708-1301-ND	20.31	18.65	16.58	MP0031/2
10	Prominent Button, 1A, Screw Terminals	708-1304-ND	14.99	13.77	12.24	MP0037/2
11	Prominent Button, 5A, Solder Terminals	708-1310-ND§	20.31	18.65	16.58	MP0034/2

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Bulgin Part No.
12	Domed, 5A, Solder Terminals	708-1296-ND	21.37	19.63	17.45	MP0027/3
13	Domed, 5A, IP66 Rated, Solder Terminals	708-1299-ND	22.24	20.43	18.16	MP0038/3
14	Domed, 5A, Solder Terminals	708-1308-ND§	21.37	19.63	17.45	MP0025/3
15	Red Dot Illuminated, 50mA, IP66, Screw Terminals	708-1313-ND	22.97	21.09	18.75	MPI001/TERM/RD
	Green Dot Illuminated, 50mA, IP66, Screw Terminals	708-1317-ND	22.97	21.09	18.75	MPI001/TERM/GN
	Blue Dot Illuminated, 50mA, IP66, Screw Terminals	708-1316-ND	25.38	23.31	20.72	MPI001/TERM/BL
	Red Dot Illuminated, 50mA, IP66, Solder Terminals	708-1312-ND	22.24	20.43	18.16	MPI001/28/RD
	Green Dot Illuminated, 50mA, IP66, Solder Terminals	708-1314-ND	22.24	20.43	18.16	MPI001/28/GN
	Blue Dot Illuminated, 50mA, IP66, Solder Terminals	708-1315-ND	24.66	22.65	20.13	MPI001/28/BL
16	Red Ring Illuminated, 50mA, IP66, Screw Terminals	708-1319-ND	22.97	21.09	18.75	MPI002/TERM/RD
	Green Ring Illuminated, 50mA, IP66, Screw Terminals	708-1323-ND	22.97	21.09	18.75	MPI002/TERM/GN
	Blue Ring Illuminated, 50mA, IP66, Screw Terminals	708-1322-ND	25.38	23.31	20.72	MPI002/TERM/BL
	Red Ring Illuminated, 50mA, IP66, Solder Terminals	708-1318-ND	22.24	20.43	18.16	MPI002/28/RD
	Green Ring Illuminated, 50mA, IP66, Solder Terminals	708-1320-ND	22.24	20.43	18.16	MPI002/28/GN
	Blue Ring Illuminated, 50mA, IP66, Solder Terminals	708-1321-ND	24.66	22.65	20.13	MPI002/28/BL

§ Rear Panel Mount

OMRON A16 Series 16mm Switches

The A16 series design allows users to make any switch arrangement needed. By changing the rear switch block, users can have a SPDT or a DPDT with LED or incandescent illumination. Changing the rear switch block or lamp is a snap with Omron's exclusive extraction tool. Panel installation is easy, cut your hole and insert the switch into the front of the panel and fix the lock ring and mounting nut from the back of the panel using Omron's fitting wrench to tighten the nut. Switches are sold as a complete assembly with switch block and lamp options available.

Specifications:
• **Rating Contacts:** 250VAC: 3A (resistive); 125VAC: 5A (resistive); 30VDC: 3A (resistive) • **LED Indicators:** Rated Voltage: 24VDC; Rated Current: 10mA; Operating Voltage: 24VDC±5% • **Dielectric Strength:** 1000VAC, 50/60 Hz for 1 minute between terminals of same polarity • **Life Expectancy:** 100,000 operations minimum • **Operating Temperature:** -10°C ~ 55°C • **Ambient humidity:** Operating 35% ~ 80% • **Degree of protection:** IP65

Pushbutton Switches 16mm

Fig. 1

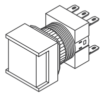

Square

Fig. 2

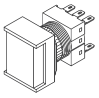

Rectangular

Fig. 3

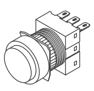

Round

Fig.	Switch Type	Cont. Blocks Include	Illumin. Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Non-Illuminated Momentary Switches									
1	Square/Flush Button	DPDT	—	Blue	Z1312-ND	12.05	11.16	10.42	A165-AAM-2
				Black	Z1313-ND	12.05	11.16	10.42	A165-ABM-2
				Green	Z1314-ND	12.05	11.16	10.42	A165-AGM-2
				White	Z1316-ND	12.05	11.16	10.42	A165-AWM-2
				Yellow	Z1317-ND	12.05	11.16	10.42	A165-AYM-2
2	Rectangular/Flush Button	DPDT	—	Black	Z1318-ND	12.05	11.16	10.42	A165-JBM-2
				Green	Z1319-ND	12.05	11.16	10.42	A165-JGM-2
				Red	Z1320-ND	12.05	11.16	10.42	A165-JRM-2
				White	Z1321-ND	12.05	11.16	10.42	A165-JWM-2
				Yellow	Z1322-ND	12.05	11.16	10.42	A165-JYM-2
3	Round/Extended Button	SPDT	—	Blue	Z1323-ND	10.28	9.52	8.89	A165-TAM-1
				Black	Z1324-ND	10.28	9.52	8.89	A165-TBM-1
				Green	Z1325-ND	10.28	9.52	8.89	A165-TGM-1
				Red	Z1326-ND	10.28	9.52	8.89	A165-TRM-1
				White	Z1327-ND	10.28	9.52	8.89	A165-TWM-1
				Yellow	Z1328-ND	10.28	9.52	8.89	A165-TYM-1
Illuminated Momentary Switches									
1	Square/Flush Button	DPDT	24VDC	Green	Z1300-ND	16.03	14.84	13.86	A165L-AGM-24D-2
				Red	Z1301-ND	16.03	14.84	13.86	A165L-ARM-24D-2
				White	Z1302-ND	16.03	14.84	13.86	A165L-AWM-24D-2
				Yellow	Z1303-ND	16.03	14.84	13.86	A165L-AYM-24D-2
2	Rectangular/Flush Button	DPDT	24VDC	Green	Z1304-ND	17.13	15.87	14.81	A165L-JGM-24D-2
				Red	Z1305-ND	17.13	15.87	14.81	A165L-JRM-24D-2
				White	Z1306-ND	17.13	15.87	14.81	A165L-JWM-24D-2
				Yellow	Z1307-ND	17.13	15.87	14.81	A165L-JYM-24D-2
3	Round/Extended Button	DPDT	24VDC	Green	Z1308-ND	16.03	14.84	13.86	A165L-TGM-24D-2
				Red	Z1309-ND	16.03	14.84	13.86	A165L-TRM-24D-2
				White	Z1310-ND	16.03	14.84	13.86	A165L-TWM-24D-2
				Yellow	Z1311-ND	16.03	14.84	13.86	A165L-TYM-24D-2

Emergency Stop Switches

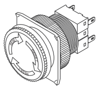

Omron's 16mm Emergency stop switches have a positive opening mechanism with minimum contact separation of 3mm in accordance with EN60947-5-1. Includes a safety lock mechanism to prevent malfunction. "Turn to Reset" operation to prevent unintentional resetting. Clearly visible red button with IP65 oil resistant seal. **Contacts:** 5A@110VAC/3A 30VDC

Switch Type	Illumination Voltage	Contact	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
30-dia.Head Push-lock Turn-Reset	—	SPST-NC	Z1427-ND	36.49	33.79	31.54	A165E-S-01
	—	DPST-NC	Z1428-ND	44.50	41.21	38.46	A165E-S-02
	24VDC	SPST-NC	Z1425-ND	49.47	45.81	42.76	A165E-LS-24D-01
	24VDC	DPST-NC	Z1426-ND	57.49	53.24	49.69	A165E-LS-24D-02
Emergency Stop Plate, 45mm dia., Yellow			Z1435-ND	3.98	3.69	3.44	A16Z-5070

16mm Accessories

Fig. 1

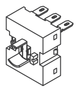

Fig. 2

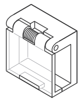

Fig. 3

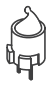

Fig. 4

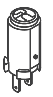

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Repl. Switch Block - SPDT, Solder Term.	Z1330-ND	6.30	5.84	5.45	A16-1
	Repl. Switch Block - DPDT, Solder Term.	Z1331-ND	8.29	7.68	7.17	A16-2
	Repl. Switch Block - SPDT, PCB Term.	Z1332-ND	9.17	8.50	7.93	A16-1P
	Repl. Switch Block - DPDT, PCB Term.	Z1333-ND	10.84	10.04	9.37	A16-2P
2	Switch Guard, Square & Round, Black	Z1337-ND	5.19	4.81	4.49	A16ZA-5050
	Switch Guard, Rectangular	Z1338-ND	5.19	4.81	4.49	A16ZJ-5050
3	Repl. Neon Lamp, 110V, Red	Z1342-ND	4.31	3.99	3.73	A16-1NRN
	Repl. Neon Lamp, 110V, Green	Z1343-ND	7.08	6.56	6.12	A16-1NGN
4	Repl. Led Lamp, 24VDC, Red	Z1584-ND	4.64	4.30	4.02	A16-24DSR
	Repl. Led Lamp, 24VDC, Yellow	Z1585-ND	4.64	4.30	4.02	A16-24DSY
	Repl. Led Lamp, 24VDC, Green	Z1586-ND	4.64	4.30	4.02	A16-24DSG
	Repl. Led Lamp, 24VDC, White	Z1587-ND	4.64	4.30	4.02	A16-24DSW
—	Fitting Wrench for Tightening Lock Nuts	Z1436-ND	6.86	6.35	5.93	A3B-3004
	Extractor for Lamp and Switch Removal	Z1437-ND	3.64	3.38	3.15	A16Z-5080

M16 Pilot Lights

Indicator light only without the switch for indication of circuit status or warning. Matches switch assembly for uniform panel look.

Fig. 1

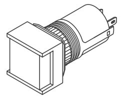

Fig. 2

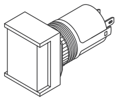

Fig. 3

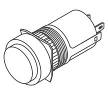

Fig.	Light Type	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Square	24VDC @ 10mA	Green	Z1349-ND	10.28	9.52	8.89	M165-AG-24D
			Red	Z1350-ND	10.28	9.52	8.89	M165-AR-24D
			White	Z1351-ND	10.28	9.52	8.89	M165-AW-24D
			Yellow	Z1352-ND	10.28	9.52	8.89	M165-AY-24D
2	Rectangular	24VDC @ 10mA	Green	Z1354-ND	10.28	9.52	8.89	M165-JG-24D
			Red	Z1355-ND	10.28	9.52	8.89	M165-JR-24D
			White	Z1356-ND	10.28	9.52	8.89	M165-JW-24D
			Yellow	Z1357-ND	10.28	9.52	8.89	M165-JY-24D
3	Round	24VDC @ 10mA	Green	Z1359-ND	10.28	9.52	8.89	M165-TG-24D
			Red	Z1360-ND	10.28	9.52	8.89	M165-TR-24D
			White	Z1361-ND	10.28	9.52	8.89	M165-TW-24D
			Yellow	Z1362-ND	10.28	9.52	8.89	M165-TY-24D

16mm Buzzer Unit —M2BJ Series

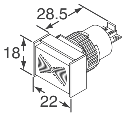

Intermittent or continuous sound selected by jumper setting.
Supply Voltage: 12 ~ 24VDC/AC

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Standard Pitch Sound, Selectable	Z2745-ND	25.25	23.39	21.83	M2BJ-B24
Intermittent Sound, Selectable	Z2746-ND	26.27	24.33	22.71	M2BJ-B24A
High Pitch Intermittent Sound, Selectable	Z2747-ND	25.25	23.39	21.83	M2BJ-B24B

Key Type Selector Switches

Fig. 1

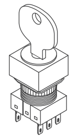

Fig. 2

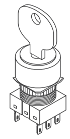

Fig.	Type	No. of Electrical Positions	Contact	Key Positions Pos. 1	Pos. 2	Pos. 3	Key Removable Position	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Square	2 Position	DPDT	On	Mom	—	1	Z1399-ND	35.38	32.76	30.58	A165K-A2AL-2
				On	On	—	1, 2	Z1400-ND	35.38	32.76	30.58	A165K-A2M-2
				On	On	—	1	Z1401-ND	35.38	32.76	30.58	A165K-A2ML-2
		3 Position	DPDT	On	On	On	1, 2, 3	Z1403-ND	35.38	32.76	30.58	A165K-A3M-2
				On	On	On	2	Z1404-ND	35.38	32.76	30.58	A165K-A3MC-2
				On	On	On	3	Z1406-ND	35.38	32.76	30.58	A165K-A3MR-2
2	Round	2 Position	DPDT	On	Mom	—	1	Z1415-ND	35.38	32.76	30.58	A165K-T2AL-2
				On	On	—	1 & 2	Z1416-ND	35.38	32.76	30.58	A165K-T2M-2
				On	On	—	1	Z1417-ND	47.26	43.76	40.85	A165K-T2ML-2
		3 Position	DPDT	On	On	On	1, 2, 3	Z1420-ND	35.38	32.76	30.58	A165K-T3M-2
				On	On	On	1	Z1422-ND	35.38	32.76	30.58	A165K-T3ML-2
				On	On	On	3	Z1423-ND	35.38	32.76	30.58	A165K-T3MR-2
Replacement Key for A165K Series (2 pcs.)								Z1424-ND	4.64	4.30	4.02	A165K-KEY

(Continued)

Knob Type 16mm Selector Switches

Specifications: Rating Contacts: • 250VAC: 3A (resistive) • 125VAC: 5A (resistive) • 30VDC: 3A (resistive) **LED Indicators:** • Rated Voltage: 24VDC • Rated Current: 10mA • Operating Voltage: 24VDC+5% **Dielectric Strength:** 1000VAC, 50/60 Hz for 1 minute between terminals of same polarity **Life Expectancy:** 100,000 operations minimum **Operating Temperature:** -10°C ~ 55°C **Ambient Humidity:** Operating 35% to 80% **Degree of Protection:** IP65

Fig. 1

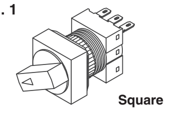

Square

Fig. 2

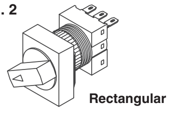

Rectangular

Fig. 3

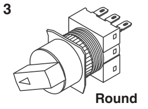

Round

Fig.	Switch Type	Position	Switch Function	Contacts	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
						Non-Illuminated						
1	Square	2 Position	Maintained (On-Off)	SPDT	—	Black	Z1363-ND	19.46	18.02	16.82	15.62	A165S-A2M-1
		2 Position	Spring Return (Momentary)	SPDT	—	Black	Z1364-ND	19.46	18.02	16.82	15.62	A165S-A2A-1
		3 Position	Maintained (On-Off-On)	DPDT	—	Black	Z1365-ND	21.67	20.07	18.73	17.40	A165S-A3M-2
2	Rectangular	2 Position	Maintained (On-Off)	SPDT	—	Black	Z1375-ND	19.46	18.02	16.82	15.62	A165S-J2M-1
		2 Position	Spring Return (Momentary)	SPDT	—	Black	Z1376-ND	19.46	18.02	16.82	15.62	A165S-J2A-1
		3 Position	Maintained (On-Off-On)	DPDT	—	Black	Z1377-ND	21.67	20.07	18.73	17.40	A165S-J3M-2
3	Round	2 Position	Maintained (On-Off)	SPDT	—	Black	Z1387-ND	19.46	18.02	16.82	15.62	A165S-T2M-1
		2 Position	Spring Return (Momentary)	SPDT	—	Black	Z1388-ND	19.46	18.02	16.82	15.62	A165S-T2A-1
		3 Position	Maintained (On-Off-On)	DPDT	—	Black	Z1389-ND	21.67	20.07	18.73	17.40	A165S-T3M-2
						Illuminated						
1	Square	2 Position	Spring Return (Momentary)	SPDT	24VDC	Green	Z1366-ND	25.15	23.29	21.74	20.18	A165W-A2AG-24D-1
						Red	Z1367-ND	25.15	23.29	21.74	20.18	A165W-A2AR-24D-1
						Yellow	Z1368-ND	25.15	23.29	21.74	20.18	A165W-A2AY-24D-1
		2 Position	Maintained (On-Off)	SPDT	24VDC	Green	Z1369-ND	25.15	23.29	21.74	20.18	A165W-A2MG-24D-1
						Red	Z1370-ND	25.15	23.29	21.74	20.18	A165W-A2MR-24D-1
						Yellow	Z1371-ND	25.15	23.29	21.74	20.18	A165W-A2MY-24D-1
		3 Position	Maintained (On-Off)	DPDT	24VDC	Green	Z1372-ND	27.36	25.34	23.65	21.96	A165W-A3MG-24D-2
						Red	Z1373-ND	27.36	25.34	23.65	21.96	A165W-A3MR-24D-2
						Yellow	Z1374-ND	27.36	25.34	23.65	21.96	A165W-A3MY-24D-2
3	Round	2 Position	Spring Return (Momentary)	SPDT	24VDC	Green	Z1390-ND	25.15	23.29	21.74	20.18	A165W-T2AG-24D-1
						Red	Z1391-ND	25.15	23.29	21.74	20.18	A165W-T2AR-24D-1
						Yellow	Z1392-ND	25.15	23.29	21.74	20.18	A165W-T2AY-24D-1
		2 Position	Maintained (On-Off)	SPDT	24VDC	Green	Z1393-ND	25.15	23.29	21.74	20.18	A165W-T2MG-24D-1
						Red	Z1394-ND	25.15	23.29	21.74	20.18	A165W-T2MR-24D-1
						Yellow	Z1395-ND	25.15	23.29	21.74	20.18	A165W-T2MY-24D-1
		3 Position	Maintained (On-Off)	DPDT	24VDC	Green	Z1396-ND	27.36	25.34	23.65	21.96	A165W-T3MG-24D-2
						Red	Z1397-ND	27.36	25.34	23.65	21.96	A165W-T3MR-24D-2
						Yellow	Z1398-ND	27.36	25.34	23.65	21.96	A165W-T3MY-24D-2

A22 Series Switches

Omron's A22 Series of pushbutton switches offer flexible features not found in other competitors switches. Switch blocks are hand snapped into the back of the switch body enabling the end user to replace, add or modify the switching outputs in seconds. If you need a DP switch simply snap on another switch block to complete your needs. Switch blocks feature screw-recessed (finger safe) terminals to meet both North American and European safety standards. Switches are water, oil and dust sealed to IP65 standards. Switch units come completely assembled and ready for installation. Purchase additional switch blocks for replacement and additions.

Rating Contacts: • 24VAC: 10A (inductive), 10A (resistive) • 110VAC: 5A (inductive), 10A (resistive) • 220VAC: 3A (inductive), 6A (resistive) **LED Indicators:** • Rated Voltage: 24 VAC/DC • Rated Current: 15mA • Operating Voltage: 24VAC/DC +5% **Dielectric Strength:** 2,500VAC, 50/60 Hz for 1 minute between terminals of same polarity **Life Expectancy:** • PB Illum/Non-Illum: 500,000 operations minimum • Emergency Stop: 300,000 operations minimum • Selector: 500,000 operations minimum **Ambient Humidity:** Operating 35% ~ 80% **Degree of Protection:** IP65

22mm Pilot Light

Indicator light only without the switch for indication of circuit status or warning. Matches switch assembly for uniform panel look.

Square

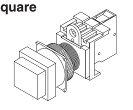

Round

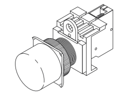

Light Type	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Square/ Extended	24VAC/ DC	Blue	Z1537-ND	30.67	28.41	26.51	M22-CA-24A
		Green	Z1538-ND	24.04	22.26	20.78	M22-CG-24A
		Red	Z1539-ND	24.04	22.26	20.78	M22-CR-24A
		White	Z1540-ND	24.04	22.26	20.78	M22-CW-24A
		Yellow	Z1541-ND	24.04	22.26	20.78	M22-CY-24A
	110 VAC	Blue	Z1542-ND	39.80	36.86	34.40	M22-CA-T1
		Green	Z1543-ND	39.80	36.86	34.40	M22-CG-T1
		Red	Z1544-ND	39.80	36.86	34.40	M22-CR-T1
		White	Z1545-ND	39.80	36.86	34.40	M22-CW-T1
		Yellow	Z1546-ND	39.80	36.86	34.40	M22-CY-T1
Round/ Flush	12VAC/DC	Yellow	Z1597-ND	14.82	13.72	12.81	M22-FY-12A
	24VAC/ DC	Blue	Z1594-ND	24.04	22.26	20.78	M22-FA-24A
		Green	Z1589-ND	14.82	13.72	12.81	M22-FG-24A
		Red	Z1590-ND	14.82	13.72	12.81	M22-FR-24A
		White	Z1596-ND	14.82	13.72	12.81	M22-FW-24A
	110 VAC	Blue	Z1588-ND	30.67	28.41	26.51	M22-FA-T1
		Green	Z1595-ND	19.46	18.02	16.82	M22-FG-T1
		Red	Z1591-ND	19.46	18.02	16.82	M22-FR-T1
		White	Z1592-ND	19.46	18.02	16.82	M22-FW-T1

22mm Accessories

Fig. 1

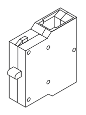

Fig. 2

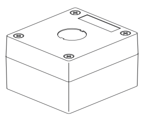

Fig. 3

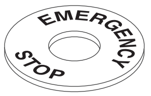

Fig. 4

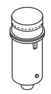

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Replacement Switch Block, SPST-NC, G.P., 10 Amp	Z1547-ND	6.63	6.15	5.74	A22-01
	Replacement Switch Block, SPST-NC, Microload	Z1548-ND	16.03	14.84	13.86	A22-01S
	Replacement Switch Block, DPST-NC, G.P., 10 Amp	Z1549-ND	25.70	23.80	22.22	A22-02
	Replacement Switch Block, DPST-NC, Microload	Z1550-ND	24.04	22.26	20.78	A22-02S
	Replacement Switch Block, SPST-NO, G.P., 10 Amp	Z1551-ND	6.63	6.15	5.74	A22-10
	Replacement Switch Block, SPST-NO, Microload	Z1552-ND	16.03	14.84	13.86	A22-10S
	Replacement Switch Block, DPST-NO, G.P., 10 Amp	Z1553-ND	17.13	15.87	14.81	A22-20
	Replacement Switch Block, DPST-NO, Microload	Z1554-ND	24.04	22.26	20.78	A22-20S
2	Control Box Enclosure; 1 Hole for 22mm Switches	Z1647-ND	21.67	20.07	18.73	A22Z-B101
	Emergency Yellow Enclosure; 1 Hole for 22mm Switches	Z1648-ND	22.66	20.99	19.59	A22Z-B101Y
	Control Box Enclosure; 2 Holes for 22mm Switches	Z1649-ND	34.28	31.74	29.63	A22Z-B102
	Control Box Enclosure; 3 Holes for 22mm Switches	Z1650-ND	56.94	52.72	49.21	A22Z-B103
3	Emergency Stop Plate, 60mm dia., Yellow w/Black Letters	Z1555-ND	6.08	5.63	5.26	A22Z-3466-1
	Emergency Stop Plate, 90mm dia., Yellow w/Black Letters	Z1556-ND	6.08	5.63	5.26	A22Z-3476-1
4	Replacement LED Lamp, Red 24VAC/DC	Z1576-ND	16.25	15.05	14.05	A22-24AR
	Replacement LED Lamp, Green 24VAC/DC	Z1577-ND	16.25	15.05	14.05	A22-24AG
	Replacement LED Lamp, Yellow 24VAC/DC	Z1578-ND	16.25	15.05	14.05	A22-24AY
	Replacement LED Lamp, Blue 24VAC/DC	Z1579-ND	19.46	18.02	16.82	A22-24AA
—	Replacement Incandescent Lamp, 120VAC	Z1580-ND	4.64	4.30	4.02	A22-H1
	Replacement Socket Assembly for Lamps	Z1581-ND	10.28	9.52	8.89	A22-TN
	Replacement Latch Assembly for Switch Blocks	Z1583-ND	3.42	3.17	2.96	A22-3200
—	Fitting Wrench for Tightening Lock Nuts	Z1557-ND	15.81	14.64	13.66	A22Z-3905
	Extractor for Lamp and Switch Removal	Z1558-ND	4.86	4.51	4.21	A22Z-3901
	Lens Remover Tool	Z1559-ND	1.91	1.77	1.66	A3PJ-5080

(Continued)

Pushbutton Switches 22mm

Fig. 1

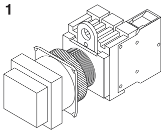

Fig. 2

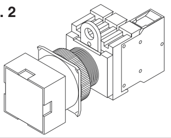

Fig. 3

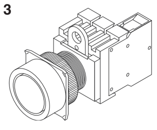

Fig. 4

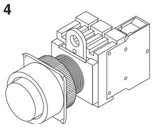

Fig. 5

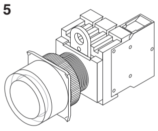

Fig. 6

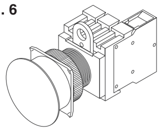

Fig. 7

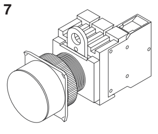

Fig.	Button Type	Contact Blocks Include	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each				Omron Part No.
						1	25	50	100	
Non-Illuminated Switches (Momentary Operations)										
2	Square/Full Guard Button (Momentary)	SPST-NO	—	Black	Z1441-ND	18.24	16.89	15.77	14.64	A22-DB-10M
				White	Z1443-ND	18.24	16.89	15.77	14.64	A22-DW-10M
				Yellow	Z1444-ND	18.24	16.89	15.77	14.64	A22-DY-10M
3	Round Flush Button (Momentary)	SPST-NO	—	Blue	Z1446-ND	13.71	12.70	11.85	11.01	A22-FA-10M
				Black	Z1447-ND	13.71	12.70	11.85	11.01	A22-FB-10M
				Green	Z1448-ND	13.71	12.70	11.85	11.01	A22-FG-10M
				Red	Z1449-ND	13.71	12.70	11.85	11.01	A22-FR-10M
				White	Z1450-ND	11.38	10.54	9.84	9.14	A22-FW-10M
				Yellow	Z1451-ND	13.71	12.70	11.85	11.01	A22-FY-10M
4	Round/Extended Button (Momentary)	SPST-NC	—	Red	Z1452-ND	12.60	11.68	10.90	10.12	A22-TR-01M
		SPST-NO + SPST-NC		Red	Z1453-ND	18.24	16.89	15.77	14.64	A22-TR-11M
5	Round Full Guard Button (Momentary)	SPST-NO	—	Blue	Z1454-ND	13.71	12.70	11.85	11.01	A22-GA-10M
				Black	Z1455-ND	13.71	12.70	11.85	11.01	A22-GB-10M
				Green	Z1456-ND	13.71	12.70	11.85	11.01	A22-GG-10M
				Red	Z1457-ND	13.71	12.70	11.85	11.01	A22-GR-10M
				White	Z1458-ND	13.71	12.70	11.85	11.01	A22-GW-10M
				Yellow	Z1459-ND	13.71	12.70	11.85	11.01	A22-GY-10M
6	Medium-size Mushroom 40 mm dia. head (Momentary)	SPST-NC	—	Red	Z1460-ND	16.03	14.84	13.86	12.87	A22-MR-01M
		SPST-NO	—	Black	Z1462-ND	16.03	14.84	13.86	12.87	A22-MB-10M
				Green	Z1463-ND	16.03	14.84	13.86	12.87	A22-MG-10M
				Yellow	Z1465-ND	16.03	14.84	13.86	12.87	A22-MY-10M
7	Small-size Mushroom 30 mm dia. head (Momentary)	SPST-NO	—	Blue	Z1467-ND	14.82	13.72	12.81	11.89	A22-SA-10M
				White	Z1470-ND	14.82	13.72	12.81	11.89	A22-SW-10M
Non-Illuminated Switches (Latching Operations)										
1	Square/Extended Button (Latching On-Off)	SPST-NC	—	Red	Z1572-ND	26.25	24.31	22.69	21.07	A22-CR-01A
		SPST-NO + SPST-NC	—	Black	Z1573-ND	34.28	31.74	29.63	27.51	A22-CB-11A
3	Round Flush Button (Latching On-Off)	SPST-NO	—	Blue	Z2816-ND ***NEW!***	23.36	21.63	20.19	18.75	A22-FA-10A
				Black	Z2817-ND ***NEW!***	23.36	21.63	20.19	18.75	A22-FB-10A
				Green	Z2818-ND ***NEW!***	23.36	21.63	20.19	18.75	A22-FG-10A
				Red	Z2819-ND ***NEW!***	23.36	21.63	20.19	18.75	A22-FR-10A
				Yellow	Z2820-ND ***NEW!***	23.36	21.63	20.19	18.75	A22-FY-10A
Illuminated Switches (Momentary Operations)										
2	Square/Full Guard Button LED Illuminated (Momentary)	SPST-NO	110 VAC	Blue	Z1474-ND	53.62	49.65	46.34	43.03	A22L-DA-24A-10M
				White	Z1476-ND	32.89	30.45	28.42	26.39	A22L-DW-24A-10M
		SPST-NO	110 VAC	Blue	Z1478-ND	58.04	53.75	50.16	46.58	A22L-DA-T1-10M
				Green	Z1479-ND	38.70	35.84	33.45	31.06	A22L-DG-T1-10M
3	Round/Clear Full Guard Button LED Illuminated (Momentary)	SPST-NC	24 VAC/DC	Red	Z1482-ND	25.15	23.29	21.74	20.18	A22L-GR-24A-01M
		SPST-NO	24 VAC/DC	Blue	Z1483-ND	45.61	42.23	39.42	36.60	A22L-GA-24A-10M
				Green	Z1484-ND	25.15	23.29	21.74	20.18	A22L-GG-24A-10M
				White	Z1485-ND	25.15	23.29	21.74	20.18	A22L-GW-24A-10M
				Yellow	Z1486-ND	25.15	23.29	21.74	20.18	A22L-GY-24A-10M
		SPST-NC	110 VAC	Red	Z1487-ND	30.67	28.41	26.51	24.62	A22L-GR-T1-01M
		SPST-NO	110 VAC	Green	Z1489-ND	30.67	28.41	26.51	24.62	A22L-GG-T1-10M
4	Round/Extended Button LED Illuminated (Momentary)	SPST-NC	24 VAC/DC	Red	Z1492-ND	20.57	19.05	17.78	16.51	A22L-TR-24A-01M
		SPST-NO	24 VAC/DC	Green	Z1494-ND	20.57	19.05	17.78	16.51	A22L-TG-24A-10M
				White	Z1495-ND	20.57	19.05	17.78	16.51	A22L-TW-24A-10M
				Yellow	Z1496-ND	20.57	19.05	17.78	16.51	A22L-TY-24A-10M
		SPST-NC	110 VAC	Red	Z1497-ND	26.25	24.31	22.69	21.07	A22L-TR-T1-01M
		SPST-NO	110 VAC	Green	Z1499-ND	26.25	24.31	22.69	21.07	A22L-TG-T1-10M
				White	Z1500-ND	26.25	24.31	22.69	21.07	A22L-TW-T1-10M
				Yellow	Z1501-ND	26.25	24.31	22.69	21.07	A22L-TY-T1-10M

Emergency Stop Pushbutton Switches

Fig. 1

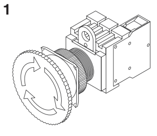

Fig. 2

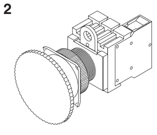

Fig. 3

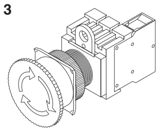

Fig. 4

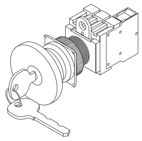

Fig. 5

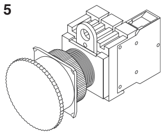

Fig. 6

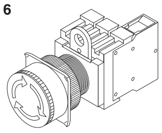

Fig. 7

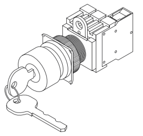

Fig. 8

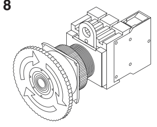

Omron Emergency stop switches feature a positive opening mechanism with minimal contact separation of 3mm in accordance with EN60947-5-1. Safety lock mechanism prevents misuse or tampering. Innovative two-piece snap together construction reduces installation time and shorter panel depth requirements. Use for Emergency stop switching on equipment, conveyors and augers, construction equipment and vehicles. Red cap standard. **Contacts**: 10A@110VAC or 24VDC

Fig.	Switch Type	Contact	Digi-Key Part No.	Price Each				Omron Part No.
				1	25	50	100	
Non-Lighted Models								
1	60-dia. Head Push-lock Turn-reset	SPST-NC	Z1502-ND	34.82	32.25	30.10	27.95	A22E-L-01
2	60-dia. Head Push-pull	SPST-NC	Z1503-ND	41.46	38.39	35.83	33.27	A22E-LP-01
3	40-dia. Head Push-lock Turn-reset	SPST-NC	Z1504-ND	31.78	29.43	27.47	25.51	A22E-M-01
4	40-dia. Head Push-lock Key-reset	SPST-NC	Z1505-ND	58.60	54.26	50.65	47.03	A22E-MK-01
		SPST-NO/SPST-NC	Z1560-ND	49.47	45.81	42.76	39.70	A22E-MK-11
5	40-dia. Head Push-pull	SPST-NC	Z1506-ND	39.25	36.34	33.92	31.50	A22E-MP-01
		SPST-NO/SPST-NC	Z1507-ND	48.36	44.79	41.80	38.82	A22E-MP-11
6	30-dia. Head Push-lock Turn-reset	SPST-NC	Z1508-ND	39.25	36.34	33.92	31.50	A22E-S-01
7	30-dia. Head Push-lock Key-reset	SPST-NC	Z1509-ND	49.47	45.81	42.76	39.70	A22E-SK-01

Fig.	Switch Type	Contact	Illumination Voltage	Digi-Key Part No.	Price Each				Omron Part No.
					1	25	50	100	
Lighted Models									
8	40-dia. Head Push-lock Turn-reset	SPST-NC	24 VAC/DC (LED)	Z1510-ND	51.68	47.86	44.67	41.48	A22EL-M- 24A-01
	40-dia. Head Push-lock Turn-reset withTrans.	SPST-NC	110 VAC (LED)	Z1511-ND	60.25	55.79	52.08	48.36	A22EL-M-T1-01

(Continued)

OMRON **A22 Series Switches** *(Cont.)*

Key Type Selector Switches

Key Selector switches for secured switching or resetting. Available in either momentary or Alternate Action. (IP65 oil and dust tight construction.) Comes complete with 2 keys. **Contact**: 10A@110VAC or 24VDC

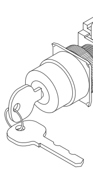

Switch Type	No. of Positions	Contacts	Key Positions Pos. 1	Pos. 2	Pos. 3	Key Removable Position	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Key Type Selector Switch	2	SPST-NO	On	Mom	—	1	Z1530-ND	24.04	22.26	20.78	19.30	A22K-2AL-10
			On	Off	—	1 & 2	Z1531-ND	24.04	22.26	20.78	19.30	A22K-2M-10
			On	Off	—	1	Z1532-ND	24.04	22.26	20.78	19.30	A22K-2ML-10
	3	SPST-NO + SPST-NC	Mom	Off	Mom	2	Z1533-ND	32.89	30.45	28.42	26.39	A22K-3AC-11
			On	On	Off	1 & 3	Z1534-ND	32.89	30.45	28.42	26.39	A22K-3M-11
			On	On	Off	2	Z1535-ND	32.89	30.45	28.42	26.39	A22K-3MC-11
			On	On	Off	1	Z1536-ND	32.89	30.45	28.42	26.39	A22K-3ML-11
Replacement Key for Key Type Selector Switches							Z1669-ND	4.75	4.40	4.11	3.82	A22KK

Knob Type Selector Switches

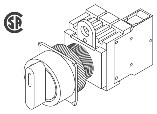

Large easy to switch knob selector switches for On-Off and selection for control of industrial controls. Snap acting type switch feedback ensures confident operator feedback during switching, even while wearing gloves. Available in either non-illuminated or LED illuminated versions. (IP65 oil and dust tight construction.)

Contacts: 10A@110VAC or 24VDC

Switch Type	No. of Positions	Switch Function	Contacts	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Non-Illuminated											
Knob-type Selector Switch	2	Spring Return (Off-Mom)	SPST-NO	—	Black	Z1512-ND	16.03	14.84	13.86	12.87	A22S-2A-10
	2	Maintained (On-Off)	SPST-NO	—	Black	Z1513-ND	15.81	14.64	13.66	12.69	A22S-2M-10
	3	Spring Return (Mom-Off-Mom)	SPST-NO + SPST-NC	—	Black	Z1574-ND	20.57	19.05	17.78	16.51	A22-3A-11
	3	Maintained (On-Off-On)	SPST-NO + SPST-NC	—	Black	Z1575-ND	20.57	19.05	17.78	16.51	A22-3M-11
	3	Maintained (On-Off-On)	DPST-NO	—	Black	Z2505-ND◆	20.57	19.05	17.78	16.51	A22S-3M-20
Illuminated											
Knob-type Selector Switch	2	Spring Return (Momentary)	SPST-NO	24 VAC/DC	Blue	Z1514-ND	47.82	44.28	41.33	38.38	A22W-2AA-24A-10
					Red	Z1516-ND	28.46	26.36	24.60	22.85	A22W-2AR-24A-10
					Yellow	Z1517-ND	28.46	26.36	24.60	22.85	A22W-2AY-24A-10
	2	Maintained (On-Off)	SPST-NO	24 VAC/DC	Green	Z1519-ND	28.46	26.36	24.60	22.85	A22W-2MG-24A-10
					Red	Z1520-ND	28.46	26.36	24.60	22.85	A22W-2MR-24A-10
					Yellow	Z1521-ND	28.46	26.36	24.60	22.85	A22W-2MY-24A-10

◆ ***RoHS Compliant***

Sensata
Technologies

22mm Switches

Features:
• AIRPAX® Brand • Self wiping contacts • Safe in operation • Simple to mount (only need a screw driver) • Heavy-duty construction • Shrouded terminals • Use of LEDs for long life • Indicator Lights are matching lights to the Flush Mounted PB Switch

Mounting:
• All Sensata-Airpax switches can be mounted in any position on panels of 1mm to 5mm thickness.

Specifications:
• Approvals: CSA-C22.2 No. 14-95, UL508, VDE0660 • Degree of protection: IP 65 • Ambient Temperature: -25°C ~ 70°C • Insulation Voltage: 500V • Thermal Current: 10A • Contact Operation: Self wiping, slow break NO or NC

Mechanical Life:
• Over one million operations

Fig. 1

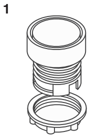

Flush

Fig. 2

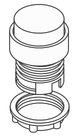

Projected

Fig. 3

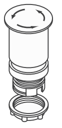

E-Stop

Fig. 4

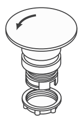

Large E-Stop

Fig. 5

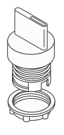

Selector

Fig. 6

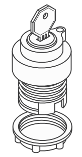

Key Selector

Fig. 7

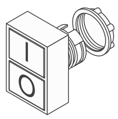

Twin Pushbutton

Fig. 8

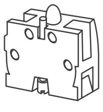

Contact Block

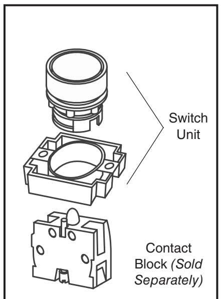

(Indicator light sold separately for Illuminated Switches)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Sensata Part No.
22mm Plastic Series						
1	PB Switch Unit, Round Flush, Black, Momentary	723-1045-ND	5.89	5.67	5.44	ASP2AF2
	PB Switch Unit, Round Flush, Green, Momentary	723-1046-ND	5.89	5.67	5.44	ASP2AF3
	PB Switch Unit, Round Flush, Red, Momentary	723-1047-ND	5.89	5.67	5.44	ASP2AF4
	PB Switch Unit, Round Flush, Yellow, Momentary	723-1048-ND	5.89	5.67	5.44	ASP2AF8
2	PB Switch Unit, Round Projected, Green, Momentary	723-1049-ND	5.89	5.67	5.44	ASP2AP3
	PB Switch Unit, Round Projected, Red, Momentary	723-1050-ND	5.89	5.67	5.44	ASP2AP4
3	E-Stop Switch Unit, 30mm, Red, Latching Turn to Reset	723-1055-ND	9.52	9.01	8.16	ASP2AMLS4
	E-Stop Switch Unit, 40mm, Red, Latching Turn to Reset	723-1056-ND	9.52	9.01	8.16	ASP2AML4
4	Large E-Stop Switch Unit, 60mm, Red, Push-Pull Type	723-1057-ND	12.49	11.82	10.71	ASP2AMJPP4
5	Selector Switch Unit, 2 position, On-Off	723-1051-ND	12.35	11.69	10.59	ASP2AS22P
	Selector Switch Unit, 3 position, On-Off-On	723-1052-ND	13.36	12.65	11.45	ASP2AS2E3P
6	Key Selector Switch Unit, 3 position, On-Off-On	723-1053-ND	17.89	16.94	15.34	ASP2AK23PC
	Key Selector Switch Unit, 2 position, On-Off	723-1054-ND	17.14	16.22	14.69	ASP2AK22PB
7	Twin PB, Non Illuminated, Switch Unit, Green/Red	723-1058-ND	11.31	10.88	10.44	ASP2ATF3F4IO
1	PB Switch Unit, Green, Flush, Illuminated, 110VAC, Momentary	723-1059-ND	17.28	16.36	14.81	ASP2ALF3RL110AC
	PB Switch Unit, Green, Flush, Illuminated, 24V, Momentary	723-1060-ND	17.28	16.36	14.81	ASP2ALF3RL24
	PB Switch Unit, Red, Flush, Illuminated, 110VAC, Momentary	723-1061-ND	17.28	16.36	14.81	ASP2ALF4RL110AC
	PB Switch Unit, Red, Flush, Illuminated, 24V, Momentary	723-1062-ND	17.28	16.36	14.81	ASP2ALF4RL24
	PB Switch Unit, Amber, Flush, Illuminated, 110VAC, Momentary	723-1063-ND	17.28	16.36	14.81	ASP2ALF5RL110AC
	PB Switch Unit, Amber, Flush, Illuminated, 24V, Momentary	723-1064-ND	17.28	16.36	14.81	ASP2ALF5RL24
	PB Switch Unit, Blue, Flush, Illuminated, 110VAC, Momentary	723-1065-ND	17.28	16.36	14.81	ASP2ALF6RL110AC
	PB Switch Unit, Blue, Flush, Illuminated, 24V, Momentary	723-1066-ND	17.28	16.36	14.81	ASP2ALF6RL24
	PB Switch Unit, Red/Green, Flush, Illuminated, 110VAC, Momentary	723-1067-ND	21.56	20.41	18.48	ASP2ATL5RLF3F4110AC
	PB Switch Unit, Red/Green, Flush, Illuminated, 24V, Momentary	723-1068-ND	21.56	20.41	18.48	ASP2ATL5RLF3F424
	Indicator Light Unit, Round White, 24V AC/DC	723-1069-ND	31.19	29.53	26.74	ASP2PLB1LB24
	Indicator Light Unit, Round Green, 24V AC/DC	723-1070-ND	17.53	16.59	15.03	ASP2PLB3LB24
	Indicator Light Unit, Round Red, 24V AC/DC	723-1071-ND	14.76	13.97	12.65	ASP2PLB4LB24
	Indicator Light Unit, Round Amber 24V AC/DC	723-1072-ND	14.76	13.97	12.65	ASP2PLB5LB24
	Indicator Light Unit, Round Blue 24V AC/DC	723-1073-ND	17.53	16.59	15.03	ASP2PLB6LB24

(Continued)

Sensata Technologies

22mm Switches *(Cont.)*

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Sensata Part No.
		22mm Metal Series				
1	PB Switch Unit, Round Flush, White	723-1078-ND	5.81	5.59	5.37	AS2AF1
	PB Switch Unit, Round Flush, Black	723-1079-ND	5.81	5.59	5.37	AS2AF2
	PB Switch Unit, Round Flush, Green	723-1080-ND	5.81	5.59	5.37	AS2AF3
	PB Switch Unit, Round Flush, Red	723-1081-ND	5.81	5.59	5.37	AS2AF4
	PB Switch Unit, Round Flush, Blue	723-1082-ND	5.81	5.59	5.37	AS2AF6
	PB Switch Unit, Round Flush, Yellow	723-1083-ND	5.81	5.59	5.37	AS2AF8
2	PB Switch Unit, Round Projected, Black	723-1084-ND	5.81	5.59	5.37	AS2AP2
	PB Switch Unit, Round Projected, Green	723-1085-ND	5.81	5.59	5.37	AS2AP3
	PB Switch Unit, Round Projected, Red	723-1086-ND	5.81	5.59	5.37	AS2AP4
5	Selector Switch Unit, Black, 2 position, On-Off	723-1087-ND	12.52	11.85	10.73	AS2AS22P
	Selector Switch Unit, Black, 3 position, On-Off-On	723-1088-ND	13.58	12.86	11.64	AS2AS2E3P
	Selector Switch Unit, Black, 3 position, Mom-Off-Mom	723-1089-ND	14.64	13.86	12.56	AS2AS2E3PSR
6	Key Selector Switch Unit, Black, 3 position, On-Off-On	723-1090-ND	18.06	17.10	15.48	AS2AK23PC
	Key Selector Switch Unit, Black, 2 position, On-Off	723-1091-ND	17.33	16.41	14.86	AS2AK22PB
3	E-Stop Switch Unit, 40mm, Red, Spring Return Type	723-1092-ND	9.63	9.27	8.90	AS2AM4
	E-Stop Switch Unit, 40mm, Red, Push-Pull Type	723-1093-ND	9.66	9.15	8.28	AS2AMPP4
	E-Stop Switch Unit, 40mm, Red, Latching “Turn to Reset”	723-1094-ND	9.66	9.15	8.28	AS2AML4
	E-Stop Switch Unit, 30mm, Red, Latching “Turn to Reset”	723-1095-ND	9.66	9.15	8.28	AS2AMLS4
7	Twin PB, Switch Unit, Round, Green/Red	723-1096-ND	17.08	16.17	14.64	AS2ATF3F4IO
1	PB Switch Unit, Round Flush, Illuminated, Green, 110VAC	723-1097-ND	9.30	8.80	7.97	AS2ALF3LB110
	PB Switch Unit, Round Flush, Illuminated, Green, 24V	723-1098-ND	9.30	8.80	7.97	AS2ALF3LB24
	PB Switch Unit, Round Flush, Illuminated, Red, 110VAC	723-1099-ND	9.30	8.80	7.97	AS2ALF4LB110
	PB Switch Unit, Round Flush, Illuminated, Red, 24V	723-1100-ND	9.30	8.80	7.97	AS2ALF4LB24
	PB Switch Unit, Round Flush, Illuminated, Amber, 110VAC	723-1101-ND	9.30	8.80	7.97	AS2ALF5LB110
	PB Switch Unit, Round Flush, Illuminated, Amber, 24V	723-1102-ND	9.30	8.80	7.97	AS2ALF5LB24
	PB Switch Unit, Round Flush, Illuminated, Blue, 110VAC	723-1103-ND	9.30	8.80	7.97	AS2ALF6LB110
	PB Switch Unit, Round Flush, Illuminated, Blue, 24V	723-1104-ND	9.30	8.80	7.97	AS2ALF6LB24
7	Twin PB with Illuminated Amber, Flush Mount, Green/Red, 110V	723-1105-ND	13.27	12.57	11.38	AS2ATL5LBF3F4IO110
	Twin PB with Illuminated Amber, Flush Mount, Green/Red, 24V	723-1106-ND	13.27	12.57	11.38	AS2ATL5LBF3F4IO24
5	Selector Switch Unit, Illuminated, Green, 2 position, 110VAC	723-1107-ND	18.45	17.47	15.82	AS2ALS3LB2P110
	Selector Switch Unit, Illuminated, Green, 2 position, 24V	723-1108-ND	18.45	17.47	15.82	AS2ALS3LB2P24
	Selector Switch Unit, Illuminated, Red, 2 position, 110VAC	723-1109-ND	18.45	17.47	15.82	AS2ALS4LB2P110
	Selector Switch Unit, Illuminated, Red, 2 position, 24V	723-1110-ND	18.45	17.47	15.82	AS2ALS4LB2P24
	Selector Switch Unit, Illuminated, Amber, 2 position, 110VAC	723-1111-ND	18.45	17.47	15.82	AS2ALS5LB2P110
1	Indicator Light Unit, Round White, 24VAC/DC	723-1112-ND	9.04	8.56	7.76	AS2PLB1LB24
	Indicator Light Unit, Round Green, 24VAC/DC	723-1113-ND	9.04	8.56	7.76	AS2PLB3LB24
	Indicator Light Unit, Round Red, 24VAC/DC	723-1114-ND	9.04	8.56	7.76	AS2PLB4LB24
	Indicator Light Unit, Round Amber, 24VAC/DC	723-1115-ND	9.04	8.56	7.76	AS2PLB5LB24
	Indicator Light Unit, Round Blue, 24VAC/DC	723-1116-ND	9.04	8.56	7.76	AS2PLB6LB24
		Accessories for 22mm Switches				
—	Waterproof Boot for Flush and Projected Actuators	723-1117-ND	4.52	4.35	4.18	2ALBT7
	Hole Plug/Black, for 22.5mm diameter hole	723-1118-ND	2.42	2.33	2.24	2BP2
8	Contact Block, SPST-NO, 3A (Power Switching)	723-1074-ND	5.38	5.18	4.97	S1
	Contact Block, SPST-NC, 3A (Power Switching)	723-1075-ND	5.38	5.18	4.97	S2
	Contact Block, SPST-NO, .4VA (Low Level Switching)	723-1076-ND	8.35	8.03	7.71	S3
	Contact Block, SPST-NC, .4VA (Low Level Switching)	723-1077-ND	8.35	8.03	7.71	S4
—	LED Bulb, White, .5W Standard Brightness, 24VDC	723-1228-ND	23.80	22.53	20.40	AMCB9124
	LED Bulb, Green, .5W Standard Brightness, 24VDC	723-1229-ND	10.28	9.73	8.81	AMCB9324
	LED Bulb, Red, .5W Standard Brightness, 24VDC	723-1230-ND	10.49	10.09	9.69	AMCB9424
	LED Bulb, Amber, .5W Standard Brightness, 24VDC	723-1231-ND	10.49	10.09	9.69	AMCB9524
	LED Bulb, Blue, .5W Standard Brightness, 24VDC	723-1232-ND	10.28	9.73	8.81	AMCB9624
	LED Bulb, Green, 1W Ultra Bright, 110VAC	723-1233-ND	10.28	9.73	8.81	AMCB93110
	LED Bulb, Red, 1W Ultra Bright, 110VAC	723-1234-ND	10.49	10.09	9.69	AMCB94110
	LED Bulb, Amber, 1W Ultra Bright, 110VAC	723-1235-ND	10.49	10.09	9.69	AMCB95110
	LED Bulb, Blue, 1W Ultra Bright, 110VAC	723-1236-ND	10.28	9.73	8.81	AMCB96110

AMERICAN ELECTRICAL INC.

DIN Rail Mounted Switches and Accessories

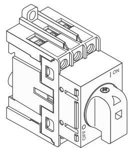

Isolation of control equipment is an important design consideration. Disconnect switches can provide isolation and lock out points for power supplies, transformers, small motors or any other types of controls. Accessories, such as auxiliary contacts are used to electrically indicate the switch position. Remote operation shut offs and handles are offered for those designs that are thru-panel.

DIN RAIL MOUNTED DISCONNECT SWITCHES — 3 POLE							***ACCESSORIES***							
Series	Description	Digi-Key Part No.	Price Each 1	10	50	American Electrical Part No.	Connector	Door Interlock Handle	Emergency Door Interlock Handle	Remote Operator Shaft ‡	4th Pole	Aux Contact SPST	Ground Pole	Neutral Pole
				16 – 6 AWG										
SD1	600V 16A Black	288-1313-ND	28.27	24.74	21.21	19200-11	19440	19400-11	19401-11	See Accessories	19414	19423	19421	19419
	600V 16A Red	288-1321-ND	28.27	24.74	21.21	19210-11								
	600V 25A Black	288-1314-ND	30.46	26.65	22.85	19201-11								
	600V 25A Red	288-1322-ND	30.46	26.65	22.85	19211-11								
	600V 32A Black	288-1315-ND	31.54	27.60	23.66	19202-11								
	600V 32A Red	288-1323-ND	31.54	27.60	23.66	19212-11								
	600V 40A Black	288-1316-ND	32.62	28.54	24.47	19203-11								
	600V 40A Red	288-1324-ND	32.62	28.54	24.47	19213-11								
				16 – 1 AWG										
SD2	600V 63A Black	288-1317-ND	45.66	39.96	34.25	19205-11	19440	19400-11	19401-11	See Accessories	19418	19429	19422	19420
	600V 63A Red	288-1325-ND	45.66	39.96	34.25	19215-11								
	600V 80A Black	288-1318-ND	50.03	43.78	37.53	19206-11								
	600V 80A Red	288-1326-ND	50.03	43.78	37.53	19216-11								
	600V 100A Black	288-1319-ND	54.37	47.58	40.78	19207-11								
	600V 100A Red	288-1327-ND	54.37	47.58	40.78	19217-11								
	600V 125A Black	288-1320-ND	60.89	53.28	45.67	19208-11								
	600V 125A Red	288-1328-ND	60.89	53.28	45.67	19218-11								

‡ Choose correct Remote Operator Shaft Length below

Accessories

Series	Description	Digi-Key Part No.	Price Each 1	10	50	American Electrical Part No.
SD1/SD2	Connector 6-8 Pole	288-1339-ND	19.46	17.51	15.57	19440
	Door Interlock Handle Black	288-1329-ND	8.71	7.63	6.54	19400-11
	Emergency Door Interlock Handle Red/Yellow	288-1330-ND	8.71	7.63	6.54	19401-11
	Remote Operator Shaft 100mm	288-1340-ND‡	5.43	4.89	4.35	19535-100
	Remote Operator Shaft 200mm	288-1341-ND‡	6.81	6.13	5.45	19535-200
	Remote Operator Shaft 300mm	288-1342-ND‡	8.16	7.35	6.53	19535-300
SD1	4th Pole	288-1331-ND	16.31	14.68	13.05	19414
	Aux Contact SPST	288-1337-ND	20.39	18.35	16.31	19423
	Ground Pole	288-1335-ND	20.39	18.35	16.31	19421
	Neutral Pole	288-1333-ND	20.39	18.35	16.31	19419
SD2	4th Pole	288-1332-ND	24.47	22.02	19.58	19418
	Aux Contact SPST	288-1338-ND	20.39	18.35	16.31	19429
	Ground Pole	288-1336-ND	20.39	18.35	16.31	19422
	Neutral Pole	288-1334-ND	20.39	18.35	16.31	19420

‡ Operator Shaft

NKK® SWITCHES

Illuminated Low Profile Pushbutton Switches

Snap-action contact mechanism. Snap-in mount (W01) with solder lug terminals and silver contacts: PCB mount (G03) with straight PC terminals and gold contacts.

Features:
• **Electrical Capacity:** • **Power Level (code W):** 5A at 125/250VAC or 5A at 30VDC • **Logic Level (code G):** 0.4VA maximum at 28V AC/DC maximum • **Dielectric Strength:** 1,000VAC minimum between contacts • **Mechanical Life:** 1,000,000 operations minimum (momentary); 200,000 operations minimum (alternate action) • **Electrical Life:** 10,000 operations minimum (silver); 200,000 operations minimum (gold) • **Total Travel:** .091” **Operation Force:** 160 grams for single pole, 260 grams for double pole • **Contact Timing:** Break before make • **Operating Temperature:** -25°C ~ 50°C
UB Models: **UL recognized and CSA certified:** LED Rating: Red 1.85V at 20mA, Amber 2.0V at 20mA, Green 2.1V at 20mA.

Dimensions in (mm) Inch

Fig. 1

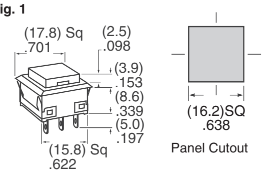

Fig. 2

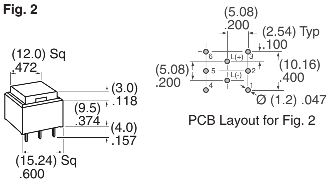

PCB Layout for Fig. 2

Fig.	Circuit	Switching Function	LED	Cap Desc. Lens / Diffuser	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Square Snap-in Mount, Single Element LED (UB Series) — 5A									
1	SPDT	On-Mom	Red	Red / Red	360-2102-ND◆	9.53	6.56	6.16	UB15KKW015C-CC-RO
	SPDT	On-Mom	Amber	Amber / Amber	360-2103-ND◆	9.53	6.56	6.16	UB15KKW015D-DD-RO
	SPDT	On-Mom	Green	Green / Green	360-2104-ND◆	9.53	6.56	6.16	UB15KKW015F-FF-RO
	DPDT	On-Mom	Red	Red / Red	360-2105-ND◆	11.34	8.22	7.31	UB25KKW015C-CC-RO
	DPDT	On-Mom	Amber	Amber / Amber	360-2106-ND◆	11.34	8.22	7.31	UB25KKW015D-DD-RO
	DPDT	On-Mom	Green	Green / Green	360-1533-ND	11.34	8.22	7.31	UB25KKW015F-FF
	DPDT	On-Mom	Green	Green / Green	360-2107-ND◆	11.34	8.22	7.31	UB25KKW015F-FF-RO
Square PCB Mount, Single Element LED (UB Series) — .4VA									
2	SPDT	On-Mom	Red	Red / Red	360-1945-ND◆	9.14	6.29	5.91	UB15SKG035C-CC-RO
	SPDT	On-Mom	Amber	Amber / Amber	360-1946-ND◆	9.14	6.29	5.91	UB15SKG035D-DD-RO
	SPDT	On-Mom	Green	Green / Green	360-1947-ND◆	9.14	6.29	5.91	UB15SKG035F-FF-RO
	DPDT	On-Mom	Red	Red / Red	360-1948-ND◆	11.48	8.32	7.40	UB25SKG035C-CC-RO
	DPDT	On-Mom	Amber	Amber / Amber	360-1544-ND	11.48	8.32	7.40	UB25SKG035D-DD
	DPDT	On-Mom	Amber	Amber / Amber	360-1949-ND◆	11.48	8.32	7.40	UB25SKG035D-DD-RO
	DPDT	On-Mom	Green	Green / Green	360-1950-ND◆	11.48	8.32	7.40	UB25SKG035F-FF-RO

◆ *RoHS Compliant*

Illuminated Process Sealed Tactile Switches

Dimensions in (mm) Inch

Fig. 1

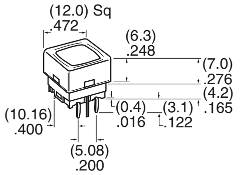

Fig. 2

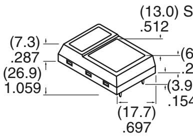

JB Series - Illuminated, Low Profile Momentary Switches:

Bright full face LED illumination for extremely long life. Sealed for automated soldering processes. Higher operating force provides more pronounced operating feel. All lenses come standard with diffused colored lens unless noted as clear. Terminal spacing conforming to .100” PCB grid. Straight, molded-in PC terminals. Single pole, single throw, variety of cap colors. Red, yellow or green LEDs.

Electrical Capacity: 50mA at 24VDC, maximum **Dielectric Strength:** 250VAC minimum **Mechanical Life:** 5,000,000 operations minimum **Electrical Life:** 5,000,000 operations minimum **Operating Temperature:** -25°C ~ 70°C **Total Travel:** .010”

JF Series - Illuminated, Ultra-Thin Momentary Switches:

JF Series are washable tactile switches with crisp tactile feedback. Terminal spacing conforming to .100” PCB grid. Single pole, single throw, variety of cap colors. Red, yellow or green LEDs.

Electrical Capacity: 50mA at 24VDC maximum **Dielectric Strength:** 250VAC minimum **Mechanical Life:** 500,000 operations minimum **Electrical Life:** 500,000 operations minimum **Operating Temperature:** -25°C ~ 70°C **Total Travel:** .016”

Fig.	Circuit	LED Color	Cap Description Lens	Diffuser	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
JB Series Illuminated Low Profile Switches									
1	SPST	Red	Clear	White	360-1260-ND	4.31	2.78	2.47	JB15LPC-JB
	SPST	Red	Clear	Red	360-1261-ND	4.31	2.78	2.47	JB15LPC-JC
	SPST	Yellow	Clear	White	360-1262-ND	4.31	2.78	2.47	JB15LPE-JB
	SPST	Yellow	Clear	Yellow	360-1263-ND	4.31	2.78	2.47	JB15LPE-JE
	SPST	Green	Clear	White	360-1264-ND	4.31	2.78	2.47	JB15LPF-JB
	SPST	Green	Clear	Green	360-1265-ND	4.31	2.78	2.47	JB15LPF-JF
JF Series Illuminated Ultra Thin Switches									
2	SPST	Red	—	—	360-1266-ND	6.40	4.43	3.92	JF15AP1CC
	SPST	Yellow	—	—	360-1267-ND	7.70	5.24	4.78	JF15AP1EE
	SPST	Green	—	—	360-1268-ND	6.68	4.62	4.09	JF15AP1FF

Illuminated Low Profile Pushbutton Switches with Alternating Legend

The UB2’s options feature super bright bi-color LEDs with alternating legends by color, all in one switch. These options offer innovative design engineers an exceptional choice to replace outdated, split legend caps. Super bright, red/green, bi-color LED switch selections can be specified with alternating ON/OFF, START/STOP, or OPEN/CLOSE legend configurations. The glossy polycarbonate cap features a single filter with a dual legend under the clear lens. When actuated, the green or red LED brilliantly highlights the alternating legends, clearly indicating the desired circuit status. Legend text is black. **Electrical Capacity:** • **Power Level (Silver):** 5A @ 125/250VAC or 30VDC • **Logic Level (Gold):** 0.4VA maximum @ 28V AC/DC maximum **Mechanical Life:** 1,000,000 Operations minimum (momentary); 200,000 Operations minimum (alternate action) **Operating Temperature Range:** -25°C ~ 50°C

Dimensions in mm

Alternating Legend Pairs

	Green	Red
4J01	**ON**	**OFF**
4J02	**START**	**STOP**
4J04	**OPEN**	**CLOSE**

PCB Mount

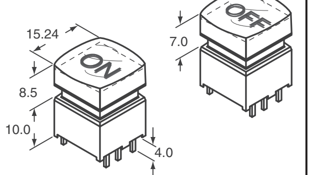

Snap-In Mount

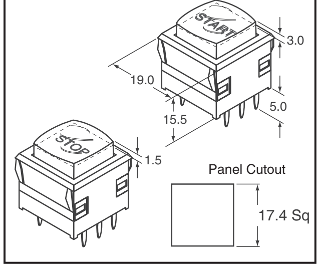

Panel Cutout

Circuit	Mounting Type	Switching Function	Contact Material	Alternating Legend	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
SPDT	PCB	On-Mom	Gold	ON/OFF	360-2227-ND	21.04	16.31	14.73	UB215SKG036CF-4J01
SPDT	PCB	On-On	Gold	ON/OFF	360-2223-ND	21.82	16.92	15.28	UB216SKG036CF-4J01
DPDT	PCB	On-Mom	Gold	ON/OFF	360-2229-ND	23.74	18.40	16.62	UB225SKG036CF-4J01
DPDT	PCB	On-On	Gold	ON/OFF	360-2225-ND	24.84	18.63	17.39	UB226SKG036CF-4J01
SPDT	Snap-In	On-Mom	Silver	ON/OFF	360-2226-ND	20.60	15.97	14.42	UB215KKW016CF-4J01
SPDT	Snap-In	On-On	Silver	ON/OFF	360-2222-ND	21.38	16.57	14.97	UB216KKW016CF-4J01
DPDT	Snap-In	On-Mom	Silver	ON/OFF	360-2228-ND	22.86	17.72	16.01	UB225KKW016CF-4J01
DPDT	Snap-In	On-On	Silver	ON/OFF	360-2224-ND	23.96	18.57	16.78	UB226KKW016CF-4J01
SPDT	PCB	On-Mom	Gold	START/STOP	360-2235-ND	21.04	16.31	14.73	UB215SKG036CF-4J02
SPDT	PCB	On-On	Gold	START/STOP	360-2231-ND	21.82	16.92	15.28	UB216SKG036CF-4J02
DPDT	PCB	On-Mom	Gold	START/STOP	360-2237-ND	23.74	18.40	16.62	UB225SKG036CF-4J02
DPDT	PCB	On-On	Gold	START/STOP	360-2233-ND	24.84	18.63	17.39	UB226SKG036CF-4J02
SPDT	Snap-In	On-Mom	Silver	START/STOP	360-2234-ND	20.60	15.97	14.42	UB215KKW016CF-4J02
SPDT	Snap-In	On-On	Silver	START/STOP	360-2230-ND	21.38	16.57	14.97	UB216KKW016CF-4J02
DPDT	Snap-In	On-Mom	Silver	START/STOP	360-2236-ND	22.86	17.72	16.01	UB225KKW016CF-4J02
DPDT	Snap-In	On-On	Silver	START/STOP	360-2232-ND	23.96	18.57	16.78	UB226KKW016CF-4J02
SPDT	PCB	On-Mom	Gold	OPEN/CLOSE	360-2243-ND	21.04	16.31	14.73	UB215SKG036CF-4J04
SPDT	PCB	On-On	Gold	OPEN/CLOSE	360-2239-ND	21.82	16.92	15.28	UB216SKG036CF-4J04
DPDT	PCB	On-Mom	Gold	OPEN/CLOSE	360-2245-ND	23.74	18.40	16.62	UB225SKG036CF-4J04
DPDT	PCB	On-On	Gold	OPEN/CLOSE	360-2241-ND	24.84	18.63	17.39	UB226SKG036CF-4J04
SPDT	Snap-In	On-Mom	Silver	OPEN/CLOSE	360-2242-ND	20.60	15.97	14.42	UB215KKW016CF-4J04
SPDT	Snap-In	On-On	Silver	OPEN/CLOSE	360-2238-ND	21.38	16.57	14.97	UB216KKW016CF-4J04
DPDT	Snap-In	On-Mom	Silver	OPEN/CLOSE	360-2244-ND	22.86	17.72	16.01	UB225KKW016CF-4J04
DPDT	Snap-In	On-On	Silver	OPEN/CLOSE	360-2240-ND	23.96	18.57	16.78	UB226KKW016CF-4J04

NKK® SWITCHES

Illuminated Pushbutton Switches

KB Series Miniature Bushing Mount

The KB pushbuttons are SPDT or DPDT snap acting contact mechanism, providing long electrical life and pronounced sensitivity. Comes complete with nut. 12mm diameter makes this switch ideal for stacking into a panel using minimal room. LED illumination for long service life. **Features: • Electrical Capacity:** 1A @ 125/250VAC or 30VDC for silver contacts **• Dielectric Strength:** 1,500VAC minimum between contacts and case **• Mechanical Life:** 100,000 operations minimum **• Electrical Life:** 50,000 operations minimum (silver) **• Total Travel:** .118" **• Operating Temperature:** -25°C ~ 50°C **• UL recognized and CSA certified** @ 1A rating

Fig.	Circuit	Switching Function	Color	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
				KB Series Square Bezel Switches				
1	SPDT	On-Mom	Red	360-1990-ND◆	9.87	7.00	6.65	KB15SKW01-5C-JC-RO
		On-Mom	Amber	360-1991-ND◆	9.87	7.00	6.65	KB15SKW01-5D-JD-RO
		On-Mom	Green	360-1992-ND◆	9.87	7.00	6.65	KB15SKW01-5F-JF-RO
		On-On	Red	360-1999-ND◆	10.56	7.49	7.12	KB16SKW01-5C-JC-RO
		On-On	Amber	360-2000-ND◆	10.56	7.49	7.12	KB16SKW01-5D-JD-RO
		On-On	Green	360-2001-ND◆	10.56	7.49	7.12	KB16SKW01-5F-JF-RO
	DPDT	On-Mom	Red	360-1613-ND	11.88	8.61	7.66	KB25SKW01-5C-JC
		On-Mom	Red	360-2008-ND◆	11.88	8.61	7.66	KB25SKW01-5C-JC-RO
		On-Mom	Amber	360-1614-ND	11.88	8.61	7.66	KB25SKW01-5D-JD
		On-Mom	Amber	360-2009-ND◆	11.88	8.61	7.66	KB25SKW01-5D-JD-RO
		On-Mom	Green	360-2010-ND◆	11.88	8.61	7.66	KB25SKW01-5F-JF-RO
		On-On	Red	360-2017-ND◆	12.51	9.07	8.07	KB26SKW01-5C-JC-RO
		On-On	Amber	360-2018-ND◆	12.51	9.07	8.07	KB26SKW01-5D-JD-RO
		On-On	Green	360-2019-ND◆	12.51	9.07	8.07	KB26SKW01-5F-JF-RO
				KB Series Round Bezel Switches				
2	SPDT	On-Mom	Red	360-1984-ND◆	9.87	7.00	6.65	KB15CKW01-5C-JC-RO
		On-Mom	Amber	360-1985-ND◆	9.87	7.00	6.65	KB15CKW01-5D-JD-RO
		On-Mom	Green	360-1986-ND◆	9.87	7.00	6.65	KB15CKW01-5F-JF-RO
		On-On	Red	360-1993-ND◆	10.56	7.49	7.12	KB16CKW01-5C-JC-RO
		On-On	Amber	360-1994-ND◆	10.56	7.49	7.12	KB16CKW01-5D-JD-RO
		On-On	Green	360-1995-ND◆	10.56	7.49	7.12	KB16CKW01-5F-JF-RO
	DPDT	On-Mom	Red	360-2002-ND◆	11.88	8.61	7.66	KB25CKW01-5C-JC-RO
		On-Mom	Amber	360-1626-ND	11.88	8.61	7.66	KB25CKW01-5D-JD
		On-Mom	Amber	360-2003-ND◆	11.88	8.61	7.66	KB25CKW01-5D-JD-RO
		On-Mom	Green	360-2004-ND◆	11.88	8.61	7.66	KB25CKW01-5F-JF-RO
		On-On	Red	360-2011-ND◆	12.51	9.07	8.07	KB26CKW01-5C-JC-RO
		On-On	Amber	360-2012-ND◆	12.51	9.07	8.07	KB26CKW01-5D-JD-RO
		On-On	Green	360-2013-ND◆	12.51	9.07	8.07	KB26CKW01-5F-JF-RO
				KB Series Rectangular Bezel Switches				
3	SPDT	On-Mom	Red	360-1987-ND◆	9.87	7.00	6.65	KB15RKW01-5C-JC-RO
		On-Mom	Amber	360-1988-ND◆	9.87	7.00	6.65	KB15RKW01-5D-JD-RO
		On-Mom	Green	360-1989-ND◆	9.87	7.00	6.65	KB15RKW01-5F-JF-RO
		On-On	Red	360-1996-ND◆	10.56	7.49	7.12	KB16RKW01-5C-JC-RO
		On-On	Amber	360-1635-ND	10.56	7.49	6.89	KB16RKW01-5D-JD
		On-On	Amber	360-1997-ND◆	10.56	7.49	7.12	KB16RKW01-5D-JD-RO
		On-On	Green	360-1998-ND◆	10.56	7.49	7.12	KB16RKW01-5F-JF-RO
	DPDT	On-Mom	Red	360-2005-ND◆	11.88	8.61	7.66	KB25RKW01-5C-JC-RO
		On-Mom	Amber	360-1638-ND	11.88	8.61	7.66	KB25RKW01-5D-JD
		On-Mom	Amber	360-2006-ND◆	11.88	8.61	7.66	KB25RKW01-5D-JD-RO
		On-Mom	Green	360-2007-ND◆	11.88	8.61	7.66	KB25RKW01-5F-JF-RO
		On-On	Red	360-2014-ND◆	12.51	9.07	8.07	KB26RKW01-5C-JC-RO
		On-On	Amber	360-2015-ND◆	12.51	9.07	8.07	KB26RKW01-5D-JD-RO
		On-On	Green	360-2016-ND◆	12.51	9.07	8.07	KB26RKW01-5F-JF-RO
				KB Accessories — RoHS Compliant				
—	Socket Wrench for Panel Mount KB Series			360-1000-ND	2.54	1.53	1.33	AT108
4	Protective Guard for Square/Round KB Series			360-1004-ND	2.18	1.29	1.15	AT494
	Protective Guard for Rectangular KB Series			360-1006-ND	2.34	1.41	1.23	AT4024

◆ ***RoHS Compliant***

Dimensions in (mm) Inch

Fig. 1

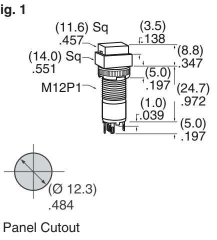

Fig. 2

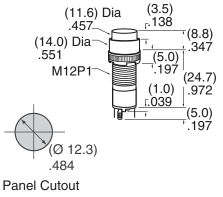

Fig. 3

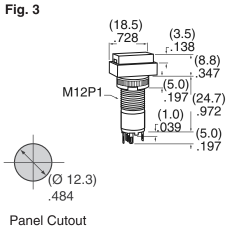

Fig. 4

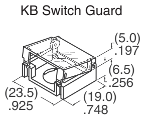

LB Series Standard Size Snap-in Mount

The pushbutton switch is designed with a single-break, snap-action contact mechanism. The combined butterfly formation and spring action of the movable contact create the quick-make, quick-break characteristic which limits arcing and prolongs electrical life. The switch is offered with momentary or alternate action circuits in single or double pole configurations. **Features: • Electrical Capacity:** 3A @ 125/250VAC or 30VDC for silver contacts **• Dielectric Strength:** 1,500 VAC minimum between contacts and case **• Mechanical Life:** 1,000,000 operations minimum for momentary; 200,000 operations minimum for maintained **• Electrical Life:** 100,000 operations minimum **• Total Travel:** .118" **• Operating Temperature:** -25°C ~ 50°C **• UL recognized and CSA certified** @ 3A rating

Fig.	Circuit	Switching Function	Color	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
				LB Series Square Bezel Switches				
1	SPDT	On-Mom	Red	360-2026-ND◆	13.20	9.60	8.70	LB15SKW01-5C-JC-RO
		On-Mom	Amber	360-2027-ND◆	13.20	9.60	8.70	LB15SKW01-5D-JD-RO
		On-Mom	Green	360-2028-ND◆	13.20	9.60	8.70	LB15SKW01-5F-JF-RO
		On-On	Red	360-1646-ND	14.65	10.66	9.66	LB16SKW01-5C-JC
		On-On	Red	360-2035-ND◆	14.65	10.66	9.66	LB16SKW01-5C-JC-RO
		On-On	Amber	360-1647-ND	14.65	10.66	9.66	LB16SKW01-5D-JD
		On-On	Amber	360-2036-ND◆	14.65	10.66	9.66	LB16SKW01-5D-JD-RO
		On-On	Green	360-2037-ND◆	14.65	10.66	9.66	LB16SKW01-5F-JF-RO
	DPDT	On-Mom	Red	360-2044-ND◆	15.62	11.36	10.30	LB25SKW01-5C-JC-RO
		On-Mom	Amber	360-1650-ND	15.62	11.36	10.30	LB25SKW01-5D-JD
		On-Mom	Amber	360-2045-ND◆	15.62	11.36	10.30	LB25SKW01-5D-JD-RO
		On-Mom	Green	360-1651-ND	15.62	11.36	10.30	LB25SKW01-5F-JF
		On-Mom	Green	360-2046-ND◆	15.62	11.36	10.30	LB25SKW01-5F-JF-RO
		On-On	Red	360-2053-ND◆	17.07	12.42	11.06	LB26SKW01-5C-JC-RO
		On-On	Amber	360-2054-ND◆	17.07	12.42	11.06	LB26SKW01-5D-JD-RO
		On-On	Green	360-2055-ND◆	17.07	12.42	11.06	LB26SKW01-5F-JF-RO
				LB Series Round Bezel Switches				
2	SPDT	On-Mom	Red	360-2020-ND◆	13.20	9.60	8.70	LB15CKW01-5C-JC-RO
		On-Mom	Amber	360-2021-ND◆	13.20	9.60	8.70	LB15CKW01-5D-JD-RO
		On-Mom	Green	360-2022-ND◆	13.20	9.60	8.70	LB15CKW01-5F-JF-RO
		On-On	Red	360-1658-ND	14.65	10.66	9.66	LB16CKW01-5C-JC
		On-On	Red	360-2029-ND◆	14.65	10.66	9.66	LB16CKW01-5C-JC-RO
		On-On	Amber	360-1659-ND	14.65	10.66	9.66	LB16CKW01-5D-JD

◆ ***RoHS Compliant***

Dimensions in (mm) Inch

Fig. 1

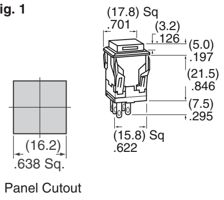

Fig. 2

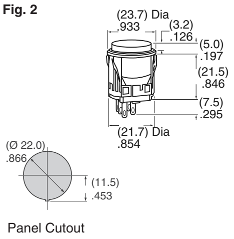

(Continued)

Illuminated Pushbutton Switches

LB Series Standard Size Snap-in Mount *(Cont.)*

Dimensions in (mm) Inch

Fig.	Circuit	Switching Function	Color	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
LB Series Round Bezel Switches — RoHS Compliant								
2	DPDT	On-On	Amber	360-2030-ND	14.65	10.66	9.66	LB16CKW01-5D-JD-RO
		On-On	Green	360-2031-ND	14.65	10.66	9.66	LB16CKW01-5F-JF-RO
		On-Mom	Red	360-2038-ND	15.62	11.36	10.30	LB25CKW01-5C-JC-RO
		On-Mom	Amber	360-2039-ND	15.62	11.36	10.30	LB25CKW01-5D-JD-RO
		On-Mom	Green	360-2040-ND	15.62	11.36	10.30	LB25CKW01-5F-JF-RO
		On-On	Red	360-2047-ND	17.07	12.42	11.06	LB26CKW01-5C-JC-RO
		On-On	Amber	360-2048-ND	17.07	12.42	11.06	LB26CKW01-5D-JD-RO
		On-On	Green	360-2049-ND	17.07	12.42	11.06	LB26CKW01-5F-JF-RO
LB Series Rectangular Bezel Switches								
3	SPDT	On-Mom	Red	360-2023-ND◆	13.20	9.60	8.70	LB15RKW01-5C-JC-RO
		On-Mom	Amber	360-2024-ND◆	13.20	9.60	8.70	LB15RKW01-5D-JD-RO
		On-Mom	Green	360-2025-ND◆	13.20	9.60	8.70	LB15RKW01-5F-JF-RO
		On-On	Red	360-2032-ND◆	14.65	10.66	9.66	LB16RKW01-5C-JC-RO
		On-On	Amber	360-2033-ND◆	14.65	10.66	9.66	LB16RKW01-5D-JD-RO
		On-On	Green	360-2034-ND◆	14.65	10.66	9.66	LB16RKW01-5F-JF-RO
	DPDT	On-Mom	Red	360-2041-ND◆	15.62	11.36	10.30	LB25RKW01-5C-JC-RO
		On-Mom	Amber	360-1674-ND	15.62	11.36	10.30	LB25RKW01-5D-JD
		On-Mom	Amber	360-2042-ND◆	15.62	11.36	10.30	LB25RKW01-5D-JD-RO
		On-Mom	Green	360-1675-ND	15.62	11.36	10.30	LB25RKW01-5F-JF
		On-Mom	Green	360-2043-ND◆	15.62	11.36	10.30	LB25RKW01-5F-JF-RO
		On-On	Red	360-2050-ND◆	17.07	12.42	11.06	LB26RKW01-5C-JC-RO
		On-On	Amber	360-2051-ND◆	17.07	12.42	11.06	LB26RKW01-5D-JD-RO
		On-On	Green	360-2052-ND◆	17.07	12.42	11.06	LB26RKW01-5F-JF-RO
LB Accessories — RoHS Compliant								
4	Protective Guard for Square LB Series			360-1005-ND	2.91	1.79	1.56	AT499
	Protective Guard for Rectangular LB Series			360-1007-ND	2.91	1.79	1.56	AT4057

◆ *RoHS Compliant*

Fig. 3

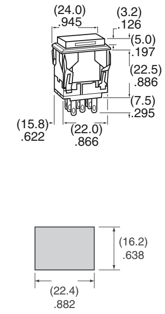

Panel Cutout

Fig. 4

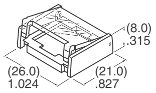

SMD Momentary Key Switches

Electrical Characteristics:

- **Contact Rating: Maximum Current:** 100mA; **Maximum Voltage:** 24V • **Contact Resistance:** 100mΩ maximum • **Insulation Resistance:** 100MΩ minimum (DC500V)

General Characteristics:

- **Switch Type:** Normally Open • **Operating Temperature Range:** -55°C ~ 125°C • **Dielectric Strength:** 250VAC

Mechanical Characteristics:

- **Cycle Life, Loaded:** 10,000 actuations

Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	1,000	5,000
J-Hook	7914J-000ECT-ND	.95	.84	.71	7914J-000ETR-ND	270.00	473.00	405.00/M
Gull Wing	7914G-000ECT-ND	.95	.84	.71	7914G-000ETR-ND	270.00	473.00	405.00/M

J-Hook

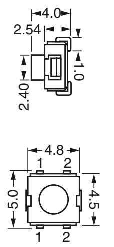

Gull Wing

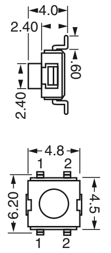

PCB Layout

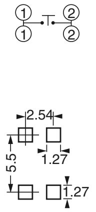

Sealed Selector Switches

Electrical Characteristics:

- **Contact Rating: Maximum Current:** 100mA **Maximum Voltage:** 24V • **Contact Timing:** Non-Shorting • **Contact Resistance:** 2Ω maximum • **Insulation Resistance:** 100MΩ minimum (DC500V)
- **Dielectric Strength:** 250VAC

General Characteristics:

- **Switch Type:** SPDT • **Operating Temperature Range:** -55°C ~ 125°C

Fig.	Size (mm)	Life	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	1,000
1	3	50	7813J-051ECT-ND	2.10	1.86	1.56	7813J-051ETR-ND	—	1050.00
	3	2000	7813J-023ECT-ND	2.31	2.05	1.72	7813J-023ETR-ND	—	1155.00
2	4	50	7814G-051ECT-ND	2.10	1.86	1.56	7814G-051ETR-ND	600.00	1050.00
	4	2000	7814G-023ECT-ND	2.31	2.05	1.72	7814G-023ETR-ND	660.00	1155.00
3	4	50	7814J-051ECT-ND	2.10	1.86	1.56	7814J-051ETR-ND	600.00	1050.00
	4	2000	7814J-023ECT-ND	2.31	2.05	1.72	7814J-023ETR-ND	660.00	1155.00

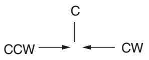

Fig. 1
7813J

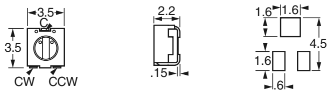

- **Mechanical Angle:** 245°C ±15° • **Positions:** 2 • **Adjustment Torque:** 50g. cm max. • **Stop Strength:** 200g. cm min. • **Switching Angle:** 45° ± 5° • **Seal Test:** 85°C Flouriner • **Rotational Life: -051:** 50 cycles; **-023:** 2000 cycles • **Maximum Soldering Heat:** 260°C, 5 seconds

Fig. 2
7814G

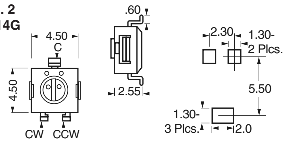

Fig. 3
7814J

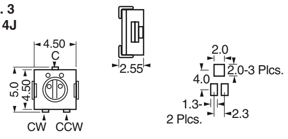

- **Mechanical Angle:** 240° ±15° • **Positions:** 2 • **Adjustment Torque:** 180g. cm maximum • **Stop Strength:** 300g. cm minimum • **Switching Angle:** 45° ± 5° • **Pushover Strength (S Style):** 2 kilograms minimum • **Rotational Life: -051:** 50 cycles **-023:** 2000 cycles • **Maximum Soldering Heat:** 260°C, 10 seconds

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CW INDUSTRIES Slide Switches

Made in U.S.A.

Fig. 1

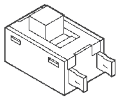

Fig. 2

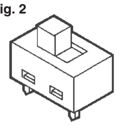

Fig. 3

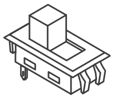

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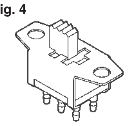

Fig. 5

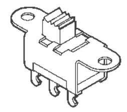

Fig. 6

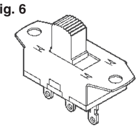

Fig. 7

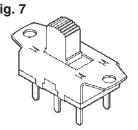

Fig. 8

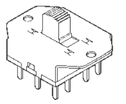

Fig. 9

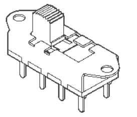

Fig. 10

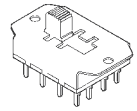

Fig. 11

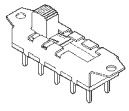

Fig. 12

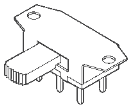

Fig. 13

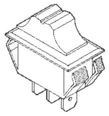

Fig. 14

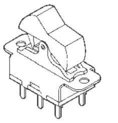

Fig. 15

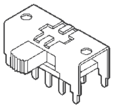

Fig. 16

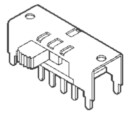

Fig. 17

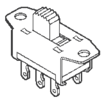

Fig. 18

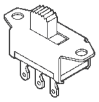

Fig. 19

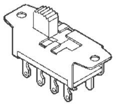

Fig. 20

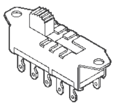

Fig. 21

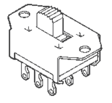

Fig. 22

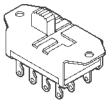

Fig. 23

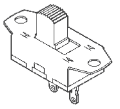

Fig. 24

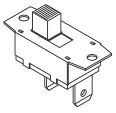

Fig. 25

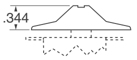

CW Industries slide switches became popular with the industrial explosion after World War I. Thousands of consumer products have used CW Industries slide switches for applications such as: radios, TVs, appliances, and automotive. Aircraft, telephones, and marine equipment use CW Industries slide switches for both power switching and low level switching. Available in both solder eyelet versions for hand soldering or PC mount terminals for direct mounting. All slide switch actuators and buttons are black nylon 6/6. **MATERIALS:** • Buttons: Type 6/6 nylon, black • Moving Contact: Copper; • Moving Contact Plating**:** Silver • Terminals: Copper • Terminal Plating: Silver **Specifications:** • High Voltage Breakdown: Minimum of 1000 volts RMS, 60Hz for one minute between parts of opposite polarity. • Contact resistance: Less than 0.01Ω at 20 milliamperes DC. • Life Cycling (no load): Switches will be operative after 10,000 (minimum) cycles at the rate of 10 cycles per minute • Life Cycling (load)**:** Switches will be operative after 6,000 (minimum) cycles at the rate of 10 cycles per minute at rated load. **APPROVAL LISTING:** UL/CSA

Digi-Key® Slide Switches Kit

Assortment of switches denoted. Includes notebook style storage case and bin storage guide.

*** SW-KIT-ND** 120 total pieces **$69.95**

Fig.	Circuit	Volts		Curr. Rtg. (A)		Dimensions - Inch (mm)	Description	Digi-Key	Price Each				CW Industries
		DC	AC	DC	AC	L x W x H		Part No.	1	10	100	500	Part No.
1	SPST	125	125	.5	.5	.250 x .320 x .620 (6.35 x 8.13 x 15.75)	Vertical Mount PC Switch	SW100-ND	.94	.72	.55	.43	G-105-0513
2	SPDT	125	125	.5	.5	.505 x .305 x .515 (12.83 x 7.75 x 13.08)	Horizontal Mount PC Switch	SW101-ND*	1.52	1.16	.89	.69	G-107-0513
3	SPST	125	125	.5	.5	.705 x .385 x .395 (17.91 x 9.78 x 10.03)	Panel Mount Snap-In Switch	SW331-ND	1.70	1.29	.99	.77	G-107-SI-0005
3	SPDT	125	125	.5	.5	.705 x .385 x .395 (17.91 x 9.78 x 10.03)	Panel Mount Snap-In Switch	SW332-ND	1.70	1.29	.99	.77	G-107-SI-0511
4	DPDT	125	125	.5	.5	.762 x .312 x .558 (19.35 x 7.92 x 14.17)	Micro-Miniature Switch	SW102-ND*	1.29	.98	.76	.59	GS-113-0512
5	SPDT	125	125	.5	.5	.750 x .220 x .458 (19.05 x 5.59 x 11.63)	Micro-Miniature Switch	SW103-ND*	1.11	.85	.65	.51	GS-115-0511
6	SPDT	125	125	.5	6.0	1.360 x .550 x .966 (34.54 x 13.97 x 24.54)	Standard Size Switch Eyelet Terminal	SW104-ND*	.61	.47	.36	.28	GF-624-6014
6	SPDT	125	125	.5	6.0	1.360 x .550 x .966 (34.54 x 13.97 x 24.54)	Standard Size Switch (On-Mom)	SW338-ND	1.68	1.28	.98	.76	G-1132-0003
7	DPDT	125	125	.5	11	1.360 x .550 x .747 (34.54 x 13.97 x 18.97)	Standard Size Switch PCB Mount	SW105-ND*	1.10	.84	.64	.50	GF-1126-1110
7	DPDT	125	125	.5	11	1.360 x .550 x .747 (34.54 x 13.97 x 18.97)	Standard Size Switch Eyelet Terminal	SW333-ND	1.17	.89	.68	.53	GF-1126-0033
8	4PDT	125	125	.5	6.0	1.360 x 1.000 x .767 (34.54 x 25.40 x 19.48)	Standard Size Switch PCB Mount	SW106-ND*	1.62	1.23	.95	.74	GF-642-6010
9	DP-3Pos	125	125	.5	3.0	1.656 x .550 x .757 (42.06 x 13.97 x 19.23)	Standard Size Switch PCB Mount	SW117-ND	.95	.72	.56	.43	G-328S-008
9	DP-3Pos	125	125	.5	11	1.656 x .550 x .757 (42.06 x 13.97 x 19.23)	Standard Size Switch PCB Mount	SW107-ND*	1.41	1.07	.82	.64	G-1128S-1110
9	DP-3Pos	125	125	.5	11	1.656 x .550 x .664 (42.06 x 13.97 x 16.87)	Standard Size Switch Eyelet Terminal	SW334-ND	1.41	1.07	.82	.64	G-1128S-0055
9	SP-3Pos	125	125	.5	11	1.656 x .550 x .664 (42.06 x 13.97 x 16.87)	Standard Size Switch (On-Off-Mom)	SW337-ND	1.37	1.04	.80	.62	G-633S-0000
10	4P-3Pos	125	125	.5	6.0	1.656 x 1.000 x .767 (42.06 x 25.40 x 19.48)	Standard Size Switch PCB Mount	SW108-ND	2.15	1.63	1.25	.97	G-660S-6010
11	DP-4Pos	125	125	.5	11	1.968 x .560 x .757 (49.99 x 14.22 x 19.23)	Standard Size Switch PCB Mount	SW109-ND	1.70	1.29	.99	.77	G-1138S-1110
11	DP-4Pos	125	125	.5	11	1.968 x .560 x .757 (49.99 x 14.22 x 19.23)	Standard Size Switch Eyelet Terminal	SW335-ND	1.70	1.29	.99	.77	G-1138S-0048
12	DPDT	125	125	.5	3.0	1.360 x .550 x .610 (34.54 x 13.97 x 15.49)	Side Actuated Switch PCB Mount	SW110-ND	.82	.63	.48	.38	GG-350-3010
13	SPDT	125	125	.5	13	1.235 x .680 x 1.397 (31.37 x 17.27 x 35.48)	Pop-in Mount Slide Switch	SW111-ND	1.21	.92	.71	.55	G-2012-1315
14	DPDT	125	125	.5	6.0	1.375 x .550 x 1.167 (34.93 x 13.97 x 29.64)	Rocker Switch PCB Mount	SW112-ND*	1.71	1.30	1.00	.78	GR5-626-6010
15	DPDT	125	125	.5	3.0	1.000 x .404 x .484 (25.40 x 10.26 x 12.29)	Miniature Side Actuated Switch PCB	SW114-ND*	1.33	1.02	.78	.61	GPI-152-3013
16	DP-3Pos	125	125	.5	3.0	1.170 x .404 x .484 (29.72 x 10.26 x 12.29)	Miniature Side Actuated Switch PCB	SW115-ND*	1.61	1.22	.94	.73	GPI-154-3013
17	DPDT	125	125	.5	3.0	1.000 x .400 x .735 (25.40 x 10.16 x 18.67)	Miniature Slide Switch Eyelet Terminal	SW116-ND	.91	.69	.53	.42	GF-126-3011
17	DPDT	125	125	.5	3.0	.628 x .400 x .735 (15.95 x 10.16 x 18.67)	Miniature Slide Switch w/o Mount Ears, PC Mount	SW342-ND	1.33	1.01	.78	.61	GF-126-0159
17	DPDT	125	125	.5	3.0	1.000 x .400 x .735 (25.40 x 10.16 x 18.67)	Slide Switch, PC Mount	SW619-ND	1.22	.93	.71	.56	GF-126-0147
18	SPDT	125	125	.5	3.0	1.000 x .400 x .735 (25.40 x 10.16 x 18.67)	Spring Return Switch Eyelet Terminal	SW118-ND*	1.05	.80	.61	.48	G-133-3011
19	DP-3Pos	125	125	.5	3.0	1.190 x .400 x .745 (30.23 x 10.16 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW119-ND*	1.14	.87	.67	.52	G-128S-3011
20	DP-4Pos	125	125	.5	3.0	1.377 x .400 x .745 (34.98 x 10.16 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW120-ND	1.38	1.05	.80	.63	G-141S-3011
21	3PDT	125	125	.5	3.0	1.000 x .567 x .745 (25.40 x 14.40 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW121-ND*	1.53	1.17	.90	.70	GF-161-3011
22	3P-3Pos	125	125	.5	3.0	1.190 x .567 x .745 (30.23 x 14.40 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW122-ND	1.50	1.14	.88	.68	G-168S-3011
22	3P-3Pos	125	125	.5	3.0	1.656 x .780 x .674 (42.06 x 19.81 x 17.12)	Standard Size Switch Eyelet Terminal	SW336-ND	1.34	1.02	.78	.61	G-368S-0000
22	3P-3Pos	125	125	.5	3.0	1.656 x .780 x .674 (42.06 x 19.81 x 17.12)	Slide Switch, PC Mount	SW618-ND	1.34	1.02	.78	.61	G-368S-0001
22	3P-3Pos	125	125	.5	6.0	1.656 x .780 x .674 (42.06 x 19.81 x 17.12)	Slide Switch Eyelet Terminal	SW617-ND	1.95	1.49	1.14	.89	G-668S-0000
23	SPST	125	125	.5	11	1.360 x .550 x .654 (34.54 x 13.97 x 16.61)	Standard Size Switch Eyelet Terminal	SW148-ND	1.21	.92	.71	.55	GF-1123-0009
24	SPST	—	125	—	16	1.360 x .550 x .654 (34.54 x 13.97 x 16.61)	Standard Size Switch .250" QC Terminal	SW616-ND*	.86	.66	.50	.39	GF-1623-0001
25	Black Topper Button for SW105-ND, SW107-ND, SW110-ND, SW148-ND, SW333-ND, SW337-ND and SW334-ND..................							SW149-ND	.25	.19	.15	.12	G-02-072

E•SWITCH™

Slide Switches

Fig. 1

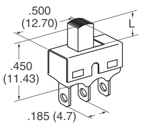

Fig. 2

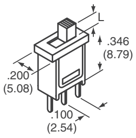

Fig.	Circuit	Rating	Dim. L Inch (mm)	Switch Function	Terminal	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
				500 Series						
1	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Solder Lug	EG2473-ND	3.75	3.38	2.88	500SSP1S1M1QEA
	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Solder Lug	EG2476-ND†	4.33	3.90	3.32	500SSP1S1M1QEB
	SPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	PC Mount	EG2472-ND	4.57	4.12	3.51	500SSP1S1M2REA
	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Right Angle	EG2478-ND	4.42	3.98	3.39	500SSP1S1M6QEA
	SPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	Right Angle	EG2477-ND	4.82	4.34	3.70	500SSP1S1M6REA
	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Vert. Right Angle	EG2480-ND	4.64	4.18	3.56	500SSP1S1M7QEA
	SPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	Vert. Right Angle	EG2479-ND	4.95	4.46	3.80	500SSP1S1M7REA
	DPDT	5A @ 28VDC	.152 (3.86)	On-On	PC Mount	EG2475-ND	4.59	4.13	3.52	500SDP1S1M2QEA
	DPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	PC Mount	EG2474-ND	6.00	5.40	4.60	500SDP1S1M2REA
2	SPDT	3A @ 28VDC	.122 (3.10)	On-On	PC Mount	EG2481-ND	5.68	5.12	4.36	500ASSP1M2QE
	SPDT	0.4 VA @ 20VDC	.122 (3.10)	On-On	PC Mount	EG2482-ND	5.96	5.37	4.57	500ASSP1M2RE
	SPDT	3A @ 28VDC	.122 (3.10)	On-On	Right Angle	EG2483-ND	6.22	5.60	4.78	500ASSP1M6QE
	SPDT	0.4 VA @ 20VDC	.122 (3.10)	On-On	Right Angle	EG2484-ND	6.50	5.85	4.99	500ASSP1M6RE

† With mounting ears

Slide Switches - EG Series

Specifications: • **Initial Contact Resistance:** Less than 20mΩ • **Withstand Voltage:** 500VAC for 1 minute between any terminal and frame • **Operating Temp.:** -20°C ~ 70°C • **Life:** 10,000 cycles minimum • **Contact:** Silver plated copper alloy • **Timing:** Non-shorting contacts

Dimensions in Inches (mm)

Fig. 1

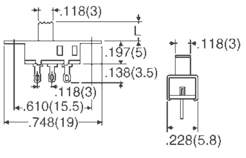

Fig. 2

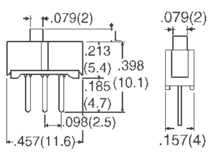

Fig. 3

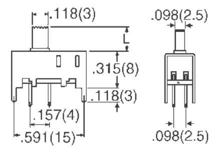

Fig. 4

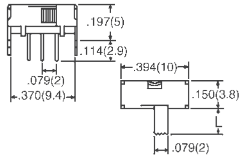

Fig. 5

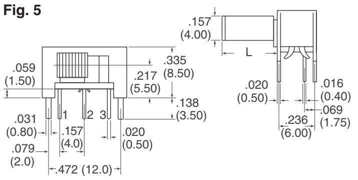

Fig. 6

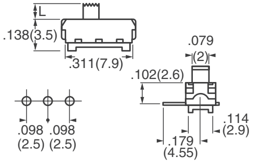

Fig. 7

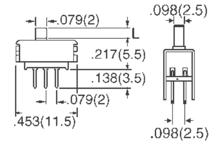

Fig. 8

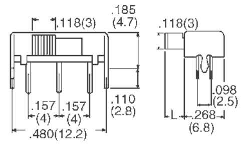

Fig. 9

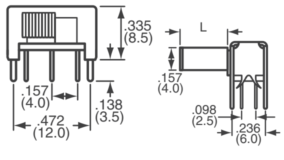

Fig. 10

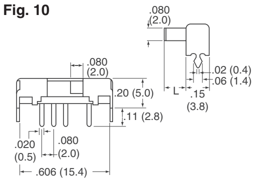

Fig. 11

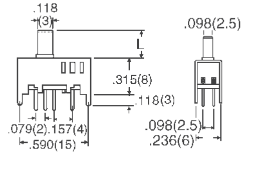

Fig. 12

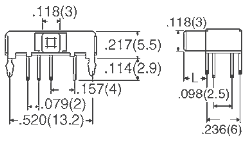

Fig. 13

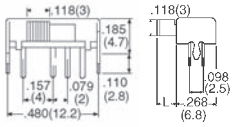

Fig. 14

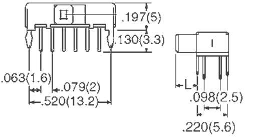

Fig. 15

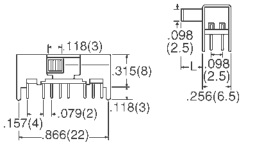

Fig. 16

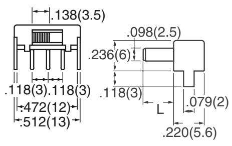

Fig. 17

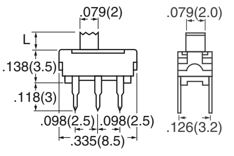

Fig. 18

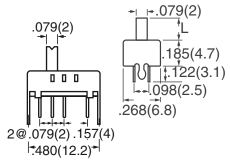

Fig. 19

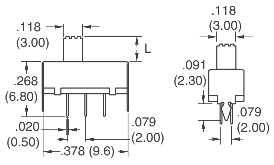

Fig. 20

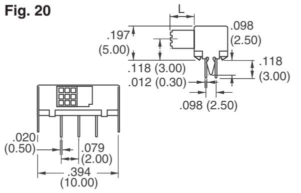

Fig. 21

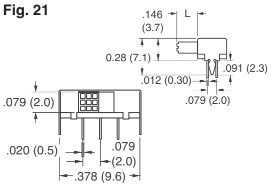

Fig. 22

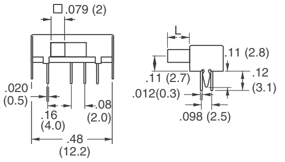

Fig. 23 – SMT

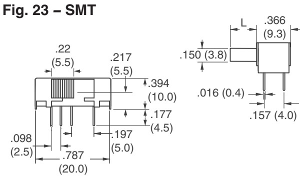

Fig. 24

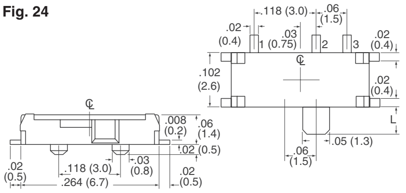

Fig.	Description	Rating	Circuit	"L" Dim. In. (mm)	Switching Function	Terminal	Digi-Key Part No.	Price Each 1	10	100	250	E-Switch Part No.
1	Straight	0.2A @ 30VDC	SPDT	.16 (4)	On-On	Solder Lugs	EG1901-ND	.68	.62	.53	.44	EG1201
1	Straight	0.2A @ 30VDC	SPDT	.22 (5.5)	On-On	Solder Lugs	EG1902-ND	.68	.62	.53	.44	EG1201A
2	Straight	0.2A @ 30VDC	SPDT	.08 (2)	On-On	PC Board	EG1903-ND	.68	.62	.53	.44	EG1218
3	Straight	0.3A @ 30VDC	DPDT	.12 (3)	On-On	PC Board	EG1904-ND	.94	.85	.72	.60	EG2201
3	Straight	0.2A @ 30VDC	DPDT	.24 (6)	On-On	PC Board	EG1905-ND	.94	.85	.72	.60	EG2201A
4	Right Angle	0.2A @ 30VDC	SPDT	.20 (5)	On-On	PC Board	EG1906-ND	.68	.62	.53	.44	EG1213
5	Right Angle	0.5A @ 15VDC	SPDT	.35 (9)	On-On	PC Board	EG2585-ND	.86	.78	.66	.55	EG1224
6	Right Angle	0.3A @ 30VDC	SPDT	.08 (2)	On-On	PC Board	EG1847-ND	1.07	.86	.78	.66	EG1270
7	Straight	0.1A @ 12VDC	DPDT	.08 (2)	On-On	PC Board	EG1907-ND	.94	.85	.72	.60	EG2209
7	Straight	0.1A @ 12VDC	DPDT	.16 (4)	On-On	PC Board	EG1908-ND	1.11	1.01	.86	.71	EG2209A
8	Right Angle	0.2A @ 30VDC	DPDT	.14 (3.5)	On-On	PC Board	EG1909-ND	.86	.78	.66	.55	EG2215
9	Right Angle	0.2A @ 30VDC	DPDT	.35 (9)	On-On	PC Board	EG4367-ND	.94	.85	.72	.60	EG2219
10	Right Angle	0.2A @ 30VDC	SP3T	.20 (5)	On-On-On	PC Mount	EG2485-ND	.86	.78	.66	.55	EG1313
11	Straight	0.2A @ 30VDC	DP3T	.12 (3)	On-On-On	PC Board	EG1910-ND	.86	.78	.66	.55	EG2301
11	Straight	0.2A @ 30VDC	DP3T	.24 (6)	On-On-On	PC Board	EG1944-ND	.94	.85	.72	.60	EG2301A
12	Right Angle	0.1A @ 12VDC	DP3T	.16 (4)	On-On-On	PC Board	EG1911-ND	.90	.81	.69	.57	EG2308
12	Right Angle	0.1A @ 12VDC	DP3T	.24 (6)	On-On-On	PC Board	EG1945-ND	.94	.85	.72	.60	EG2308A
13	Right Angle	0.2A @ 30VDC	DP3T	.14 (3.5)	On-On-On	PC Board	EG1913-ND	.94	.85	.72	.60	EG2315
14	Right Angle	0.2A @ 30VDC	4PDT	.24 (6)	On-On	PC Board	EG1949-ND	1.54	1.39	1.18	.98	EG4208A
14	Right Angle	0.2A @ 30VDC	4PDT	.16 (4)	On-On	PC Board	EG1914-ND	1.62	1.47	1.25	1.03	EG4208
15	Right Angle	0.2A @ 30VDC	4P3T	.20 (5)	On-On-On	PC Board	EG1915-ND	1.79	1.62	1.38	1.14	EG4319
16	Right Angle	0.2A @ 30VDC	SPDT	.12 (3)	On-On	PC Board	EG1916-ND	.68	.62	.53	.44	EG1206
16	Right Angle	0.2A @ 30VDC	SPDT	.24 (6)	On-On	PC Board	EG1917-ND	.68	.62	.53	.44	EG1206A
17	Straight	0.3A @ 30VDC	SPDT	.08 (2)	On-On	PC Board	EG1918-ND	.77	.69	.59	.49	EG1271
17	Straight	0.3A @ 30VDC	SPDT	.16 (4)	On-On	PC Board	EG1919-ND	.77	.69	.59	.49	EG1271A
18	Straight	0.2A @ 30VDC	DP3T	.16 (4)	On-On-On	PC Board	EG1920-ND	1.02	.92	.79	.65	EG2305
18	Straight	0.2A @ 30VDC	DP3T	.08 (2)	On-On-On	PC Board	EG1921-ND	1.02	.92	.79	.65	EG2305A
19	Straight	0.2A @ 30VDC	DPDT	.16 (4)	On-On	PC Board	EG1940-ND	.86	.78	.66	.55	EG2207
20	Right Angle	0.2A @ 30VDC	DPDT	.16 (4)	On-On	PC Board	EG1941-ND	.86	.78	.66	.55	EG2208
20	Right Angle	0.2A @ 30VDC	DPDT	.24 (6)	On-On	PC Board	EG1942-ND	.86	.78	.66	.55	EG2208A
21	Right Angle	0.2A @ 30VDC	DPDT	.16 (4)	On-On	PC Board	EG1943-ND	.86	.78	.66	.55	EG2211
21	Right Angle	0.2A @ 30VDC	DPDT	.08 (2)	On-On	PC Mount	EG2486-ND	.86	.78	.66	.55	EG2211A
22	Right Angle	0.2A @ 30VDC	DP3T	.24 (6)	On-On-On	PC Board	EG1946-ND	.80	.72	.61	.51	EG2310
22	Right Angle	0.2A @ 30VDC	DP3T	.16 (4)	On-On-On	PC Board	EG1947-ND	.90	.81	.69	.57	EG2310A
23	Right Angle	0.2A @ 30VDC	DP3T	.28 (7)	On-On-On	PC Board	EG1948-ND	.94	.85	.72	.60	EG2322
24	Right Angle	0.3A @ 4VDC	SPDT	.06 (1.5)	On-On	SMT Term.	EG2586CT-ND†	1.43	1.15	1.03	.88	EG1257
24	Right Angle	0.3A @ 4VDC	SPDT	.06 (1.5)	On-On	SMT Term.	EG2586TR-ND‡	1838.76/3,300				EG1257

† Cut Tape ‡ Tape and Reel

Tyco Electronics Alcoswitch Slide Switches

Authorized Distributor

ASE/F Series: Features: • Unique design allows aqueous or solvent cleaning processes • High temperature anti-static plastic construction will withstand most surface mount, vapor phase reflow or wave soldering conditions • Industry standard .100 x .300 pin spacing **Specifications:** • Contact Rating: Gold: 0.4VA @ 20VDC; Silver: 300mA @ 115VAC 28VDC • Initial Contact Resistance: 40mΩ max. • Insulation Resistance: 1,000MΩ @ 500VDC min. • Contact Timing: Shorting • Operating Temp.: -40°C ~ 80°C **MHS Series: Specifications:** • Contact Rating: Gold: 0.4VA @ 20VDC; Silver: 300mA @ 125VAC • Initial Contact Resistance: 20mΩ max. • Insulation Resistance: 1,000MΩ min. • Contact Timing: Make-before-break • Operating Temp.: -20°C ~ 100°C **MLL Series: Specifications:** • Contact Rating: 0.3A @ 4VDC • Initial Contact Resistance: 70mΩ • Insulation Resistance: 100MΩ min. • Actuation Force: 175 ±100 Grams • Operating Temp.: -10°C ~ 60°C **MMS Series: Specifications:** • Contact Rating: 100mA @ 30VDC • Initial Contact Resistance: 30mΩ max. • Insulation Resistance: 100MΩ min. • Contact Timing: Make-before-break • Operating Temp.: -10°C ~ 60°C **MSS Series: Specifications:** • Contact Rating: Gold: 0.4VA @ 20VDC; Silver: 300mA @ 125VAC • Initial Contact Resistance: 20mΩ max. • Insulation Resistance: 1,000MΩ min. • Contact Timing: Make-before-break • Operating Temp.: -20°C ~ 85°C **STS Series: Specifications:** • Contact Rating: 300mA @ 125VAC • Initial Contact Resistance: 20mΩ max. • Insulation Resistance: 100MΩ min. @ 500VDC • Contact Timing: Make-before-break • Operating Temp.: -15°C ~ 60°C **SLS Series: Specifications:** • Contact Rating: 250mA @ 125VAC, 150mA @ 12VDC • Initial Contact Resistance: 30mΩ max. • Insulation Resistance: 500MΩ min. • Contact Timing: Break-before-make • Operating Temp.: -10°C ~ 85°C **SSA Series: Specifications:** • Contact Rating: Gold: 0.4VA max. @ 20VDC; Silver: 100mA @ 30VDC • Initial Contact Resistance: 30mΩ max. • Insulation Resistance: 100MΩ min. • Contact Timing: Break-before-make • Operating Temp.: -20°C ~ 70°C **SSJ Series: Specifications:** • Contact Rating: 100mA @ 12VDC • Initial Contact Resistance: 20mΩ max. • Insulation Resistance: 100MΩ min. • Contact Timing: Make-before-break • Operating Temp.: -10°C ~ 60°C **TSS Series: Specifications:** • Contact Rating: 0.4VA max. @ 20VDC • Initial Contact Resistance: 20mΩ max. • Insulation Resistance: 1,000MΩ min. @ 500VDC • Contact Timing: Non-shorting • Operating Temp.: -20°C ~ 80°C

Fig. 1

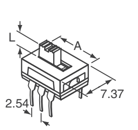

Fig. 2

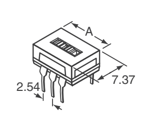

Fig. 3

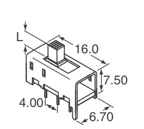

Fig. 4

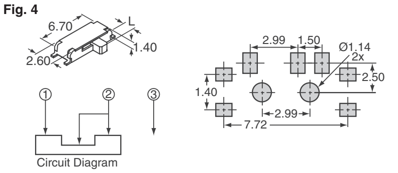

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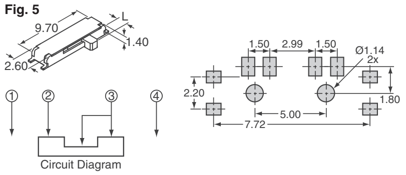

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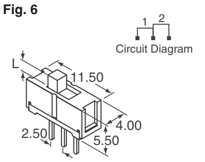

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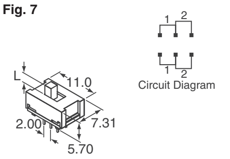

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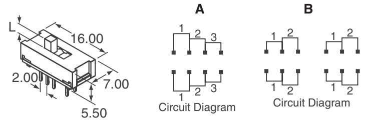

Fig. 9

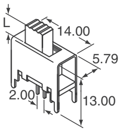

SPDT Shown

Fig. 10

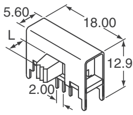

Fig. 11

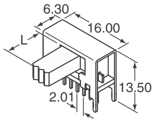

Fig. 12

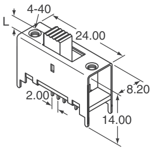

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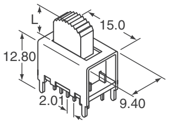

Fig. 14

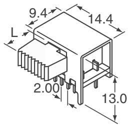

Fig. 15

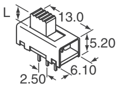

SPDT Shown

Fig. 16

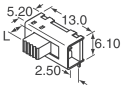

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Fig. 17

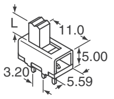

SPDT Shown

Fig. 18

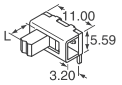

SPDT Shown

Fig. 19

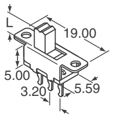

Fig. 20

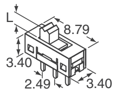

SPDT Shown

Fig. 21

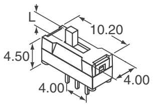

SPDT Shown

Fig. 22

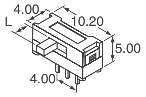

Fig. 23

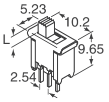

SPDT Shown

Fig. 24

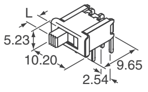

SPDT Shown

Fig.	Circuit	Contact Material	Dimensions (mm) A	Dimensions (mm) L	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Alcoswitch Part No.
ASE/F Series Auto Insertable									
1	DPDT	Silver	10.2	2.79	450-1557-ND	3.97	3.52	2.76	ASE2204
	DPDT	Gold	10.2	2.79	450-1628-ND	3.97	3.52	2.76	ASE22G04
	4PDT	Silver	17.8	2.79	450-1633-ND	3.41	3.03	2.37	ASE4204
	4PDT	Gold	17.8	2.79	450-1558-ND	4.25	3.77	2.95	ASE42G04
	6PDT	Silver	25.4	2.79	450-1559-ND	4.59	4.07	3.19	ASE6204
	6PDT	Gold	25.4	2.79	450-1560-ND	4.93	4.38	3.42	ASE62G04
2	DPDT	Silver	10.2	—	450-1561-ND	3.41	3.03	2.37	ASF2204
	DPDT	Gold	10.2	—	450-1562-ND	3.75	3.33	2.61	ASF22G04
	4PDT	Silver	17.8	—	450-1563-ND	3.26	2.89	2.26	ASF4204
	4PDT	Gold	17.8	—	450-1564-ND	4.25	3.77	2.95	ASF42G04
	6PDT	Silver	25.4	—	450-1565-ND	4.65	4.13	3.23	ASF6204
	6PDT	Gold	25.4	—	450-1566-ND	4.93	4.38	3.42	ASF62G04

Fig.	Circuit	Switching Function	Contact Material	Dimension L (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Alcoswitch Part No.
MHS Series, Low Profile, Instrumentation Grade									
3	SPDT	On-On	Silver	4.5	450-1567-ND	1.55	1.38	1.08	MHS12204
	SPDT	On-On	Gold	4.5	450-1568-ND	3.26	2.89	2.26	MHS122G04
	SPDT	On-Off-On	Silver	4.5	450-1569-ND	1.77	1.57	1.23	MHS12304
	SP3T	On-On-On	Silver	4.5	450-1570-ND	1.43	1.27	.99	MHS13304
	SP3T	On-On-On	Gold	4.5	450-1571-ND	3.72	3.30	2.58	MHS133G04
	DPDT	On-On	Silver	4.5	450-1572-ND	1.64	1.46	1.14	MHS22204
	DPDT	On-On	Gold	4.5	450-1573-ND	4.31	3.83	2.99	MHS222G04
	DPDT	On-Off-On	Silver	4.5	450-1574-ND	1.86	1.65	1.29	MHS22304
	DPDT	On-Off-On	Gold	4.5	450-1629-ND	3.10	2.75	2.15	MHS223G04
	DP3T	On-On-On	Silver	4.5	450-1575-ND	1.98	1.76	1.38	MHS23304
	DP3T	On-On-On	Gold	4.5	450-1576-ND	4.93	4.50	3.64	MHS233G04
MLL Series, Miniature, Right Angle, SMT									
4	SPDT	On-On	Silver	1.5	450-1577-ND	2.20	1.96	1.53	MLL1200S
5	SP3T	On-On-On	Silver	1.5	450-1630-ND	2.36	2.09	1.64	MLL1300S
MMS Series, Micro Size, Instrumentation Grade									
6	SPDT	On-On	Silver	2.03	450-1578-ND	2.11	1.87	1.47	MMS12
7	DPDT	On-On	Silver	2.00	450-1579-ND	2.51	2.23	1.75	MMS22
8A	DP3T	On-On-On	Silver	2.02	450-1580-ND	2.98	2.64	2.07	MMS23
8B	4PDT	On-On	Silver	2.0	450-1581-ND	3.69	3.28	2.56	MMS42
MSS Series, Instrumentation Grade, 2.00mm Spacing									
9	SPDT	On-On	Silver	5.00	450-1582-ND	2.11	1.87	1.47	MSS120004
	SPDT	On-On	Gold	5.00	450-1583-ND	2.67	2.37	1.85	MSS1200G04
	DPDT	On-On	Silver	2.3	450-1587-ND	1.83	1.63	1.27	MSS220004
	DPDT	On-On	Gold	2.3	450-1588-ND	2.45	2.18	1.70	MSS2200G04
	DPDT	On-On	Silver	11.0	450-1589-ND	3.10	2.75	2.15	MSS225004
	DPDT	On-On	Gold	11.0	450-1632-ND	3.35	2.97	2.33	MSS2250G04
10	SPDT	On-On	Silver	3.99	450-1584-ND	2.11	1.87	1.47	MSS1200R04
	SPDT	On-On	Gold	3.99	450-1631-ND	2.67	2.37	1.85	MSS1200RG04
11	DPDT	On-On	Silver	9.5	450-1590-ND	2.45	2.18	1.70	MSS2250R04
	DPDT	On-On	Gold	9.5	450-1591-ND	3.10	2.75	2.15	MSS2250RG04
12	SP3T	On-On-On	Silver	3.80	450-1585-ND	2.51	2.23	1.75	MSS130004
	SP3T	On-On-On	Gold	3.80	450-1586-ND	3.13	2.78	2.18	MSS1300G04
13	4PDT	On-On	Silver	8.0	450-1592-ND	2.05	1.82	1.42	MSS420004
	4PDT	On-On	Gold	8.0	450-1593-ND	2.60	2.31	1.81	MSS4200G04
14	4PDT	On-On	Silver	7.0	450-1594-ND	2.57	2.29	1.79	MSS4200R04
	4PDT	On-On	Gold	7.0	450-1595-ND	3.69	3.28	2.56	MSS4200RG04
STS Series, Miniature, Low Profile, Economy Grade									
15	SPDT	On-On	Silver	4.0	450-1609-ND	1.27	1.13	.89	STS121PC04
	SP3T	On-On-On	Silver	4.0	450-1611-ND	1.58	1.41	1.10	STS1300PC04
	SP3T	On-On-On	Silver	4.0	450-1613-ND	1.52	1.35	1.06	STS131PC04
	SP4T	On-On-On-On	Silver	4.0	450-1615-ND	1.83	1.63	1.27	STS1400PC04
	DPDT	On-On	Silver	4.0	450-1616-ND	2.45	2.18	1.70	STS220PC04
	DP3T	On-On-On	Silver	4.0	450-1617-ND	2.79	2.48	1.94	STS2300PC04
	DP3T	On-On-On	Silver	4.0	450-1618-ND	2.67	2.37	1.85	STS230PC04
	DP4T	On-On-On-On	Silver	4.0	450-1619-ND	3.07	2.73	2.13	STS2400PC04
	DP4T	On-On-On-On	Silver	4.0	450-1620-ND	2.95	2.62	2.05	STS240PC04
16	SPDT	On-On	Silver	4.0	450-1610-ND	1.36	1.21	.95	STS121RA04
	SP3T	On-On-On	Silver	4.0	450-1612-ND	1.77	1.57	1.23	STS1300RA04
	SP3T	On-On-On	Silver	4.0	450-1614-ND	1.64	1.46	1.14	STS131RA04
SLS Series, Miniature, Rolling Contact, Economy Grade									
17	SPDT	On-On	Silver	5.0	450-1597-ND	1.64	1.46	1.14	SLS121104
	SPDT	On-On	Silver	5.0	450-1598-ND	1.18	1.05	.82	SLS121PC04
	SP3T	On-On-On	Silver	5.0	450-1600-ND	1.98	1.76	1.38	SLS131PC04
18	SPDT	On-On	Silver	5.0	450-1599-ND	1.52	1.35	1.06	SLS121RA04
	SP3T	On-On-On	Silver	5.0	450-1601-ND	2.20	1.96	1.53	SLS131RA04
19	SPDT	On-On	Silver	5.0	450-1596-ND	1.64	1.46	1.14	SLS12104
SSA Series, Micro Size, Instrumentation Grade									
20	SPDT	On-On	Silver	2.01	450-1602-ND	1.98	1.76	1.38	SSA12
	SPDT	On-On	Gold	2.01	450-1603-ND	2.67	2.37	1.85	SSA12G
	DPDT	On-On	Silver	2.0	450-1604-ND	2.51	2.23	1.75	SSA22
	DPDT	On-On	Gold	2.0	450-1605-ND	3.29	2.92	2.28	SSA22G
SSJ Series, Micro Size, Instrumentation Grade									
21	SPDT	On-On	Silver	2.0	450-1634-ND	1.52	1.35	1.06	SSJ1204
	SP3T	On-On-On	Silver	2.0	450-1636-ND	1.64	1.46	1.14	SSJ1304
22	SPDT	On-On	Silver	2.5	450-1635-ND	2.14	1.90	1.49	SSJ12R04
TSS Series Slide Switches									
23	SPDT	On-On	Gold	2.79	450-1621-ND	5.21	4.62	3.62	TSS11DGPC04
	SPDT	On-Off-On	Gold	2.79	450-1623-ND	6.14	5.45	4.26	TSS11EGPC04
	DPDT	On-On	Gold	2.79	450-1624-ND	8.49	7.75	6.26	TSS21NGPC04
	4PDT	On-On	Gold	2.79	450-1626-ND	14.36	13.11	10.59	TSS41NGPC
24	SPDT	On-On	Gold	2.79	450-1622-ND	5.21	4.62	3.62	TSS11DGRA04
	DPDT	On-On	Gold	2.79	450-1625-ND	10.89	9.94	8.03	TSS21NGRA04
	4PDT	On-On	Gold	2.79	450-1627-ND	15.99	14.59	11.79	TSS41NGRA

Slide Switches

1000 Series: **Specifications:** • Contact Rating: B, K and G contact material: 0.4VA maximum @ 20VAC or DC maximum Q contact material: 6A @ 120VAC or 28VDC, 3A @ 250VAC • Electrical Life: 100,000 make-and-break cycles at full load with contact material B or K; 40,000 cycles with G and Q contact material • Operating temperature: -30°C ~ 65°C **Materials:** • Case: diallylphthalate (DAP), (UL94V-O) • Housing: Stainless steel • Contacts: B contact material: copper alloy with gold plate over nickel plate. Q contact material: Coin silver, silver plated • Terminal Seal: Epoxy

L Series: **Specifications:** • Contact Rating: LXOX, LX1X Models: Q contact material: 4A @ 125VAC or 28VDC; 2 Amps @ 250VAC; 0.5 Amp @ 125VDC (UL/CSA) • Electrical Life: 10,000 make-and-break cycles at full load **Materials:** • Housing: 6/6 nylon (UL94V-2), black • Q Contacts only: Copper, silver plated

S Series: **Specifications:** • Contact Rating: S6XX Models: Q contact material: 12A @ 125VAC; 6A @ 250VAC; 1A @ 125VDC (UL/CSA) S8XX models: 15A @ 125VAC; 6A @ 250VAC (UL/CSA) • Electrical Life: 10,000 make-and-break cycles at full load **Materials:** • Housing: 6/6 nylon (UL94V-2), black • Actuator: 6/6 nylon (UL94V-2), black • Q Contacts only: Copper, silver plated

TS Series: **Specifications:** • Contact Rating: B contact material: 0.4VA maximum @ 20V AC or DC maximum. Q contact material TS01: 3A @ 120VAC or 28VDC; TS03: 1A @ 120VAC or 28VDC • Electrical Life: TS01: 60,000 make-and-break cycles at full load; TS03: 30,000 make-and-break cycles at full load • Operating Temperature: -30°C ~ 85°C **Materials:** • Housing: 6/6 nylon (UL94V-0), black • B contact: Copper alloy, with gold plate over nickel plate. Q Contacts: Copper alloy, silver plated

GS Series: **Specifications:** • Contact Rating: B contact material: 0.4VA maximum @ 20VAC or DC maximum • Mechanical and Electrical Life: 40,000 make-and-brake cycles at full load • Storage and Operating Temperature: -30°C ~ 85°C **Materials:** • Housing and Base: Glass filled nylon 6/6, flame retardant, heat stabilized (UL94V-O) • Movable Contact: Copper with gold plate over nickel plate • Terminal Seal: Epoxy. All terminals insert molded

LP Series: **Specifications:** • Contact Rating: LPOX, LP2X Models: Q contact material: 6A @ 125VAC or 28V DC; 3A @ 250VAC (UL/CSA) • Electrical Life: 10,000 make-and-break cycles at full load **Materials:** • Housing: 6/6 nylon (UL94V-2), black • Contacts: Copper, silver plated

V Series: **Specifications:** • Contact Rating: Q contact material: 10.1A @ 125VAC; 4A @ 28VDC; 5A @ 250VAC (UL/CSA); 2.0 (0.5)A @ 250VAC, T85 (VDE) • Electrical Life: 10,000 make-and-break cycles at full load • Operating Temperature: -30°C ~ 85°C **Materials:** • Housing: 6/6 nylon (UL94V-2), black • Actuator: Glass filled polyester; ‘01 and ‘02 styles: black (standard); ‘12, ‘13 and ‘14 styles: red (standard) • Contacts: Copper, silver plated

ES Series: **Specifications:** • Contact Rating: B contact material: 0.4VA maximum @ 20VAC or DC maximum • Mechanical and Electrical Life: 40,000 make-and-brake cycles at full load • Operating Temperature: -30°C ~ 85°C **Materials:** • Housing and Base: Nylon (UL94V-O) • Terminals: Copper alloy with tin-lead alloy over nickel plate • Base and Terminal Seal: Epoxy

Fig. 1

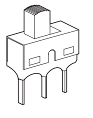

Fig. 2

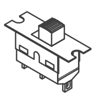

Fig. 3

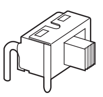

Fig. 4

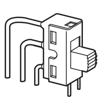

Fig. 5

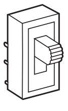

Fig. 6

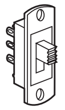

Fig. 7

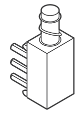

Fig. 8

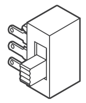

Fig. 9

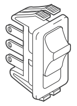

Snap-In

Fig. 10

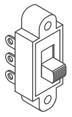

Fig. 11

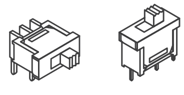

Fig. 12

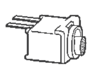

Fig. 13

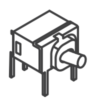

Fig. 14

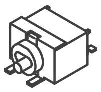

Fig. 15

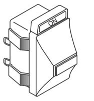

Snap-In

Fig. 16

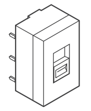

Fig. 17

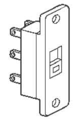

Fig. 18

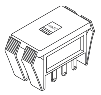

Fig. 19

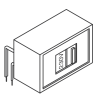

Fig. 20

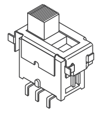

Fig. 21

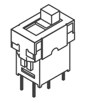

Fig. 22

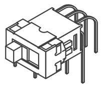

Fig. 23

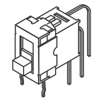

Termination Options

02

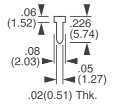

03

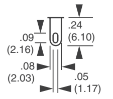

A

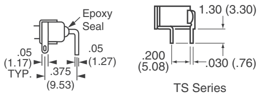

TS Series

AV2

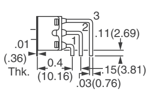

C

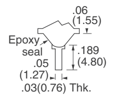

V3

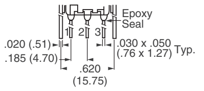

Z

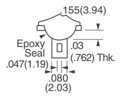

Actuator

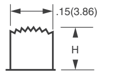

Fig.	Circuit	Options (see diagram)				Dimensions Inches (mm) L x W x D	Digi-Key Part No.	Price Each			C&K Part No.
		Switching Function	Actuator H (inches)	Termi-nation	Contact Material			1	25	100	
1000 Series — RoHS Compliant											
1	SPDT	On-On	0.2	C	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5000-ND	4.04	3.24	2.56	1101M2S3CBE2
	SPDT	On-On	0.2	C	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5001-ND	4.04	3.24	2.56	1101M2S3CQE2
	SPDT	On-On	0.2	V3	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5048-ND	4.62	3.70	2.93	1101M2S3V3BE2
	SPDT	On-Off-On	0.2	C	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5051-ND	4.74	3.80	3.01	1103M2S3CQE2
	DPDT	On-On	0.2	C	B	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5002-ND	7.86	6.30	4.98	1201M2S3CBE2
	DPDT	On-On	0.2	C	Q	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5003-ND	7.86	6.30	4.98	1201M2S3CQE2
	DPDT	On-On	0.04	C	Q	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5052-ND	7.86	6.30	4.98	1201M2S1CQE2
	DPDT	On-On	0.2	V3	B	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5056-ND	9.03	7.23	5.72	1201M2S3V3BE2
	DPDT	On-Off-On	0.2	V3	B	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5057-ND	10.07	8.06	6.38	1203M2S3V3BE2
2	SPDT	On-On	0.2	Z	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5004-ND	3.92	3.14	2.49	1101M1S3ZQE2
	SPDT	On-On	0.14	Z	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5058-ND	3.92	3.14	2.49	1101M1S2ZQE2
	SPDT	On-On	0.2	Z	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5059-ND	3.92	3.14	2.49	1101M1S3ZBE2
	SPDT	On-On	0.2	Z	G	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5060-ND	4.68	3.75	2.97	1101M1S3ZGE2
	DPDT	On-On	0.2	Z	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5061-ND	7.62	6.10	4.83	1201M1S3ZQE2
3	SPDT	On-On	0.2	A	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5005-ND	4.62	3.70	2.93	1101M2S3ABE2
	SPDT	On-On	0.2	A	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5006-ND	4.62	3.70	2.93	1101M2S3AQE2
	SPDT	On-On	0.285	A	K	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5049-ND	5.01	4.02	3.18	1101M2S4AKE2
	SPDT	On-On	0.285	A	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5050-ND	4.62	3.70	2.93	1101M2S4AQE2
	DPDT	On-On	0.2	A	B	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5053-ND	9.03	7.23	5.72	1201M2S3ABE2
	DPDT	On-On	0.2	A	Q	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5054-ND	9.03	7.23	5.72	1201M2S3AQE2
4	SPDT	On-On	0.2	AV2	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5007-ND	4.62	3.70	2.93	1101M2S3AV2BE2
	SPDT	On-On	0.2	AV2	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5008-ND	4.62	3.70	2.93	1101M2S3AV2QE2
	SPDT	On-On	0.2	AV2	G	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5047-ND	5.39	4.31	3.42	1101M2S3AV2GE2
	DPDT	On-On	0.2	AV2	B	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5055-ND	9.03	7.23	5.72	1201M2S3AV2BE2
L/S Series — RoHS Compliant											
5	SPST	On-Off	0.2	02	Q	.941 x .43 x .36 (23.9 x 10.92 x 9.14)	CKC5106-ND	1.85	1.48	1.18	L101011MS02Q
	SPDT	On-On	0.2	02	Q	.941 x .43 x .36 (23.9 x 10.92 x 9.14)	CKC5107-ND	1.94	1.56	1.24	L102011MS02Q
	SPDT	On-On	0.335	02	Q	.905 x .53 x .28 (22.99 x 13.46 x 7.11)	CKC5113-ND	2.30	1.84	1.46	S102031MS02Q
	DPDT	On-On	0.2	02	Q	.76 x .43 x .36 (19.30 x 10.92 x 9.14)	CKC5100-ND	2.29	1.98	1.67	L202011MS02Q
	DPDT	On-On	0.2	02	Q	.941 x .43 x .36 (23.9 x 10.92 x 9.14)	CKC5108-ND	4.17	3.34	2.65	L202011MS02QE
	DPDT	On-On	0.375	02	Q	.941 x .43 x .36 (23.9 x 10.92 x 9.14)	CKC5109-ND	3.31	2.65	2.10	L202031MS02Q
	DPDT	On-On	Slot	02	Q	.941 x .43 x .36 (23.9 x 10.92 x 9.14)	CKC5110-ND	4.46	3.57	2.83	L202121MS02QE
	DPDT	On-On	0.335	02	Q	.905 x .53 x .28 (22.99 x 13.46 x 7.11)	CKC5114-ND	2.97	2.38	1.88	S202031MS02Q
	DPDT	On-On	Slot	02	Q	.905 x .53 x .28 (22.99 x 13.46 x 7.11)	CKC5115-ND	3.37	2.70	2.14	S202121MS02Q
	DPDT	On-On	Slot	02	Q	.905 x .53 x .28 (22.99 x 13.46 x 7.11)	CKC5116-ND	3.24	2.60	2.06	S202131MS02Q
	DP3T	On-On-On	0.2	02	Q	.941 x .43 x .36 (23.9 x 10.92 x 9.14)	CKC5111-ND	3.31	2.65	2.10	L203011MS02Q
6	SPDT	On-On	0.335	03	Q	1.38 x .53 x .28 (34.93 x 13.46 x 7.11)	CKC5118-ND	2.30	1.84	1.46	S102031SS03Q
	DPST	On-Off	0.2	03	Q	.76 x .43 x .36 (19.30 x 10.92 x 9.14)	CKC5101-ND	2.15	1.86	1.57	L201011SS03Q
	DPDT	On-On	0.335	03	Q	1.38 x .53 x .28 (34.93 x 13.46 x 7.11)	CKC5013-ND	3.15	2.53	2.00	S602031SS03Q
	DPDT	On-On	0.335	03	Q	1.38 x .53 x .28 (34.93 x 13.46 x 7.11)	CKC5119-ND	2.97	2.38	1.88	S202031SS03Q
7	DPDT	Off-Mom	—	02	Q	.76 x .42 x .33 (19.30 x 10.67 x 8.38)	CKC5104-ND	5.29	4.24	3.35	L212132MV02Q
8	SPDT	On-On	0.335	02	Q	.76 x .42 x .33 (19.30 x 10.67 x 8.38)	CKC5102-ND	1.94	1.56	1.24	L102021ML04Q
	DPDT	On-On	Slot	—	Q	.80 x .55 x .412 (20.32 x 13.97 x 10.46)	CKC5112-ND	4.17	3.34	2.65	L202121MA04Q
	DPDT	On-On	0.335	02	Q	.76 x .42 x .33 (19.30 x 10.67 x 8.38)	CKC5103-ND	3.89	3.12	2.47	L202021MA04Q
Tiny Slide — TS Series — RoHS Compliant											
9	DPDT	On-On	Black	03	Q	1.24 x .68 x .68 (31.50 x 17.27 x 17.27)	CKC5105-ND	3.21	2.58	2.04	S802C21S207Q
10	DPDT	On-On	0.335	03	Q	1.42 x .53 x .64 (36.07 x 13.46 x 16.36)	CKC5014-ND	3.37	2.70	2.14	S602031TS03Q
11	SPDT	On-On	0.122	A	B	.40 x .20 x .346 (10.16 x 5.08 x 8.79)	CKC5120-ND	5.06	4.05	3.21	TS01ABE
	SPDT	On-On	0.122	A	Q	.40 x .20 x .346 (10.16 x 5.08 x 8.79)	CKC5121-ND	5.06	4.05	3.21	TS01AQE
	SPDT	On-On	0.122	C	B	.40 x .20 x .346 (10.16 x 5.08 x 8.79)	CKC5122-ND	4.65	3.72	2.95	TS01CBE
	SPDT	On-On	0.122	C	Q	.40 x .20 x .346 (10.16 x 5.08 x 8.79)	CKC5123-ND	4.65	3.72	2.95	TS01CQE

* Cut Tape † Tape and Reel ◆ ***RoHS Compliant***

(Continued)

Slide Switches *(Cont.)*

Fig.	Circuit	Options (see diagram) Switching Function	Actuator H (inches)	Termi-nation	Contact Material	Dimensions Inches (mm) L x W x D	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
11	SPDT	On-Off-On	0.122	A	B	.40 x .20 x .346 (10.16 x 5.08 x 8.79)	CKC5124-ND	5.59	4.47	3.54	TS03ABE
	SPDT	On-Off-On	0.122	C	B	.40 x .20 x .346 (10.16 x 5.08 x 8.79)	CKC5125-ND	5.18	4.15	3.29	TS03CBE
						Ultra Miniature — GS Series					
12	SPDT	On-On	—	C	B	.28 x .16 x .28 (7.01 x 4.06 x 7.06)	CKN9136-ND◆	6.16	4.93	3.91	GS01MCBE
	SPST	Off-On	—	C	B	.28 x .16 x .28 (7.01 x 4.06 x 7.06)	CKN9135-ND◆	6.74	5.40	4.27	GS02MCBE
13	SPDT	On-On	—	A	B	.28 x .212 x .28 (7.11 x 5.38 x 7.11)	CKN9130-ND◆	6.93	5.55	4.40	GS01MABE
	SPST	Off-On	—	A	B	.28 x .212 x .28 (7.11 x 5.38 x 7.11)	CKN9133-ND◆	7.35	5.88	4.66	GS02MABE
14	SPDT	On-On	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9025CT-ND*	6.45	5.56	4.47	GS01MSAKE(T&R)
	SPDT	On-On	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9105CT-ND◆*	5.96	4.77	3.78	GS01MSABE
	SPDT	On-On	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9105TR-ND◆†		2314.20/600		GS01MSABE
	SPST	On-Off	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9026CT-ND*	6.97	6.01	4.83	GS02MSAKE(T&R)
	SPST	Off-On	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9106CT-ND◆*	6.44	5.15	4.08	GS02MSABE
	SPST	Off-On	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9106TR-ND◆†		2316.60/600		GS02MSABE
						Snap In — LP Series — RoHS Compliant					
15	SPDT	On-On	Black	03	Q	.84 x .62 x .70 (21.34 x 15.75 x 17.68)	CKC5015-ND	3.27	2.62	2.08	LP02C21T203DQ
	DPDT	On-On	Black	03	Q	.84 x .62 x .70 (21.34 x 15.75 x 17.68)	CKC5016-ND	4.45	3.56	2.82	LP22C21T203DQ
	SPDT	On-On	Red	03	Q	.84 x .62 x .70 (21.34 x 15.75 x 17.68)	CKC5017-ND	3.60	2.88	2.28	LP02C31T203DQ
	DPDT	On-On	Red	03	Q	.84 x .62 x .70 (21.34 x 15.75 x 17.68)	CKC5018-ND	4.46	3.57	2.83	LP22C31T203DQ
						V Series — 115V/230V Voltage Select — RoHS Compliant					
16	DPDT	On-On	—	C	Q	1.03 x .65 x .62 (26.16 x 16.51 x 15.75)	CKC3001-ND	4.67	3.74	2.96	V80212MS02Q
	DPDT	On-On	—	02	Q	1.03 x .65 x .62 (26.16 x 16.51 x 15.75)	CKC3006-ND	5.81	4.65	3.69	V80212MS02QE
	DPDT	On-On	—	02	Q	1.03 x .65 x .62 (26.16 x 16.51 x 15.75)	CKC3007-ND	4.30	3.44	2.73	V80213MS02Q
	DPDT	On-On	—	02	Q	1.03 x .65 x .62 (26.16 x 16.51 x 15.75)	CKC3008-ND	4.67	3.74	2.96	V80214MS02Q
17	SPST	On-Off	—	.110 QC	Q	1.61 x .65 x .62 (41.00 x 16.51 x 15.75)	CKC3009-ND	2.90	2.33	1.84	V70113SS05Q
	DPDT	On-On	—	.110 QC	Q	1.61 x .65 x .62 (41.00 x 16.51 x 15.75)	CKC3002-ND	4.67	3.74	2.96	V80212SS05Q
	DPDT	On-On	0.29	.110 QC	Q	1.61 x .65 x .62 (41.00 x 16.51 x 15.75)	CKC3010-ND	4.30	3.44	2.73	V80201SS05Q
	DPDT	On-On	—	.110 QC	Q	1.61 x .65 x .62 (41.00 x 16.51 x 15.75)	CKC3011-ND	4.30	3.44	2.73	V80213SS05Q
	DPST	On-On	0.29	.110 QC	Q	1.61 x .65 x .62 (41.00 x 16.51 x 15.75)	CKN9156-ND	2.92	2.53	2.13	V80114SS05Q
	DPDT	On-On	0.29	.110 QC	Q	1.61 x .65 x .62 (41.00 x 16.51 x 15.75)	CKN9158-ND	3.42	2.96	2.49	V80214SS05Q
18	DPDT	On-On	0.29	.110 QC	Q	1.3 x .75 x .54 (33.02 x 19.05 x 13.72)	CKN9157-ND	3.74	3.23	2.72	V80214S205Q
	DPDT	On-On	—	.110 QC	Q	1.3 x .75 x .54 (33.02 x 19.05 x 13.72)	CKC3005-ND	5.10	4.08	3.23	V80212S205Q
19	DPDT	On-On	—	02	Q	1.03 x .65 x .62 (26.16 x 16.51 x 15.75)	CKC3012-ND	5.35	4.28	3.39	V80213MA08Q
	DPDT	On-On	—	C	Q	1.03 x .65 x .62 (26.16 x 16.51 x 15.75)	CKC3004-ND	4.19	3.63	3.05	V80212MA08Q
						ES Series — Fully Sealed Miniature Slide Switches — RoHS Compliant					
20	SPST	On-Off	0.12	SMT	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1813CT-ND*	7.23	6.24	5.01	ES02MSABE
	SPST	On-Off	0.12	SMT	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1813TR-ND†		1254.42/300		ES02MSABE
21	SPDT	On-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1778-ND	6.05	4.84	3.84	ES01MCBE
	SPST	On-Off	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1812-ND	6.53	5.22	4.14	ES02MCBE
	SPDT	On-Off-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN2085-ND	6.11	4.89	3.88	ES03MCBE
	DPDT	On-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN2082-ND	7.76	6.22	4.92	ES21MCBE
	DPST	On-Off	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1815-ND	8.88	7.11	5.63	ES22MCBE
	DPDT	On-Off-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1830-ND	8.31	6.65	5.27	ES23MCBE
22	DPDT	On-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN2080-ND	8.47	6.78	5.37	ES21MABE
	DPST	On-Off	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1814-ND	9.26	7.41	5.87	ES22MABE
	DPDT	On-Off-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1816-ND	8.88	7.11	5.63	ES23MABE
23	SPDT	On-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1777-ND	6.87	5.50	4.36	ES01MAVBE
	SPDT	On-Off-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN2084-ND	7.07	5.66	4.48	ES03MAVBE

* Cut Tape † Tape and Reel ◆ ***RoHS Compliant***

Miniature Slide Switches

Typical Applications: • Telecommunications products • Computer peripherals • Thermostat select switch • Instrumentations • Test and measurement equipment

Fig. 1

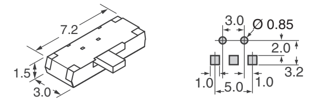

Fig. 2

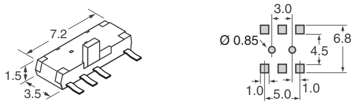

Fig. 3

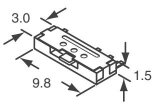

Fig. 4

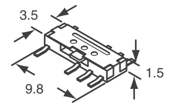

Fig. 5

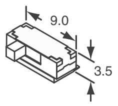

Fig. 6

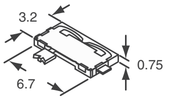

Fig. 7

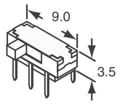

Fig. 8

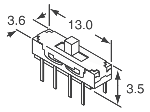

Fig. 9

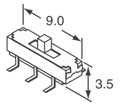

Fig. 10

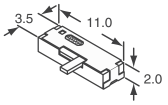

Fig.	Circuit	Description	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel† Qty.	Pricing	C&K Part No.
			AYZ Series						
1	SPDT	Horizontal Actuator, Gullwing-lead	401-1001-1-ND	.93	.86	.79	4,000	513.00/M	AYZ0102AG
1	SPDT	Horizontal Actuator, Gullwing-lead	401-2012-1-ND	.93	.86	.79	4,000	513.00/M	AYZ0102AGRLC
2	DPDT	Vertical Actuator, Gullwing-lead	401-1000-1-ND	1.35	1.25	1.15	3,000	748.80/M	AYZ0202AG
2	DPDT	Vertical Actuator, Gullwing-lead	401-2013-1-ND	1.35	1.25	1.15	3,000	749.00/M	AYZ0202AGRLC
3	SP3T	Horizontal Actuator, Gullwing-lead	401-2014-1-ND	1.24	1.14	1.05	4,000	542.00/M	AYZ0103AGRLC
4	DP3T	Vertical Actuator, Gullwing-lead	401-2015-1-ND	1.35	1.25	1.15	3,000	749.00/M	AYZ0203AGRLC
			JS Series — Sub-Miniature						
5	SPDT	Horizontal Actuator, Gullwing-lead	401-1999-1-ND	.52	.49	.45	1,000	290.00	JS102011SAQN
6	SPDT	Horizontal Actuator, Gullwing-lead	401-2005-1-ND	.63	.59	.54	4,000	351.00/M	JS102000SAQN
7	DPDT	Horizontal Actuator, Thru-hole	401-2000-ND	.41	.33	.27	—	—	JS202011AQN
7	DP3T	Horizontal Actuator, Thru-hole	401-2003-ND	.48	.39	.31	—	—	JS203011AQN
8	DP3T	Vertical Actuator, Thru-hole	401-2004-ND	.48	.39	.31	—	—	JS203011CQN
8	DPDT	Vertical Actuator, Thru-hole	401-2001-ND	.41	.33	.27	—	—	JS202011CQN
9	DPDT	Vertical Actuator, Gullwing-lead	401-2002-ND	.42	.34	.27	—	—	JS202011SCQN
			JSM Series — Sub-Miniature						
10	SPDT	Horizontal Actuator, Gullwing-lead	401-2007-1-ND	2.41	2.23	2.05	1,800	1335.60/M	JSM08022SAQNR
11	SPDT	Horizontal Actuator, Gullwing-lead	401-2006-1-ND	2.41	2.23	2.05	1,800	1335.60/M	JSM08022SAQNL
12	SPDT	Horizontal Actuator, Gullwing-lead	401-2009-1-ND	2.25	2.08	1.91	1,800	1244.00/M	JSM08011SAQNR
12	SPDT	Horizontal Actuator, Gullwing-lead	401-2008-1-ND	2.25	2.08	1.91	1,800	1244.00/M	JSM08011SAQNL
13	SP3T	Horizontal Actuator, Gullwing-lead	401-2010-1-ND	2.33	2.15	1.97	1,800	1289.00/M	JSM07011SAQN
14	SP3T	Horizontal Actuator, Gullwing-lead	401-2011-1-ND	2.22	2.06	1.89	2,300	1231.20/M	JSM05000SAQN
			PCM Series — Ultra Miniature						
15	SPDT	Horizontal Actuator, Gullwing-lead	401-2016-1-ND	1.24	1.14	1.05	3,500	468.00/M	PCM12SMTR
	SP3T	Horizontal Actuator, Gullwing-lead	401-2017-1-ND	1.33	1.23	1.13	3,500	468.00/M	PCM13SMTR

† For Tape and Reel part number, change 1-ND to 2-ND.

Fig. 11

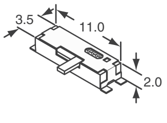

Fig. 12

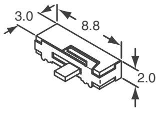

Fig. 13

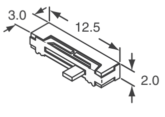

Fig. 14

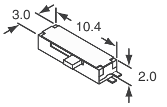

Fig. 15

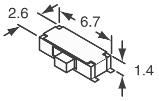

C&K Keylock Switches

Dimensions in Inches (mm)

Fig. 1 Y Series, 4 Tumbler

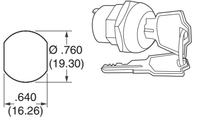

Fig. 2 Y Series, 6 Tumbler

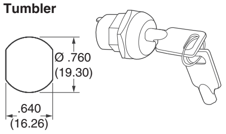

Fig. 3 H Series

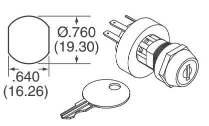

Fig. 4 YM Series

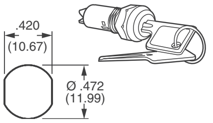

Fig. 5 P Series

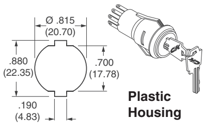

Fig. 6 P Series, Low Profile

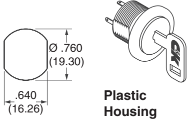

Fig. 7 YF Series

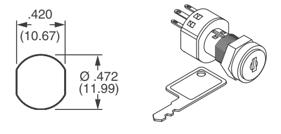

Fig. 8 BY Series

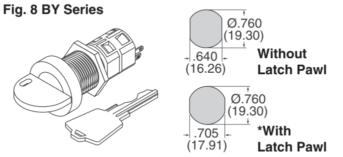

Fig. 9 PM Series

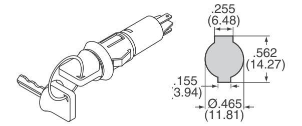

Fig. 10 PL Series, 5 Tumbler

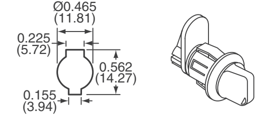

Fig.	No. Poles	Keypull Possible	Switch Type	Amp Rtg. @ 125 VAC	Term-ination	Connected Terminals (Position)				Digi-Key Part No.	Price Each			C&K Components Part No.
						1	2	3	4		1	10	100	
1	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8000-ND	9.25	7.99	6.73	Y1011U2C203NQ
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8001-ND	10.83	9.35	7.88	Y2011U2C203NQ
	DP	1,2	On-On	4	A	8-1, 4-5	1-3, 5-7	—	—	CKC8003-ND	10.83	9.35	7.88	Y2011U2C202NQ
	SP	1,2,3	On-Off-On	4	D	7-1	1-3	6-7	—	CKC8026-ND	12.02	10.38	8.74	Y1417U2C2WCNQE
	SP	1 only	On-Mom	4	B	8-1	1-2	—	—	CKC1230-ND	11.90	10.28	8.66	Y108122A203NQ
	DP	1 only	On-Mom	4	B	8-1, 4-5	1-2, 5-6	—	—	CKC1231-ND	12.71	10.98	9.25	Y208122A203NQ
	SP	1,2,3	On-On-On	4	B	8-1	1-2	7-8	—	CKC8036-ND	9.86	8.52	7.18	Y100AA2C203NQ
	SP	1,2,3,4	On-On-On-On	4	B	8-1	1-2	2-3	3-4	CKC8037-ND	11.17	9.65	8.12	Y100AB2C203NQ
	SP	1 only	On-On	4	E	8-1	1-3	—	—	CKC8038-ND	9.25	7.99	6.73	Y101132C201NQ
	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8039-ND	9.25	7.99	6.73	Y101132C203NQ
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8042-ND	10.37	8.96	7.55	Y1011U2R203NQ
	DP	1 only	On-On-On	4	B	8-1,4-5	1-2,5-6	7-8,3-4	—	CKC8043-ND	11.42	9.87	8.31	Y200822C203NQ
	DP	1,2,3	On-On-On	4	B	8-1,4-5	1-2,5-6	7-8,3-4	—	CKC8044-ND	11.42	9.87	8.31	Y200AA2C203NQ
	DP	1 only	On-On	4	E	8-1,4-5	1-3, 5-7	—	—	CKC8045-ND	10.83	9.35	7.88	Y201132C201NQ
	DP	1 only	On-On	4	B	8-1,4-5	1-3, 5-7	—	—	CKC8046-ND	10.83	9.35	7.88	Y201132C203NQ
2	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8040-ND	12.84	11.09	9.34	Y101132V203NQ
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8047-ND	14.49	12.52	10.54	Y201132V203NQ
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8006-ND	12.84	11.09	9.34	Y1011U2V203NQ
3	SP	1,2	On-On	12	C	7-8	8-2	—	—	CKC8004-ND	12.59	10.88	9.16	H1011U2F205NQ
	DP	1,2	On-On	12	C	7-8, 3-4	8-2, 4-6	—	—	CKC8005-ND	10.37	8.96	7.55	H2011U2F205NQ
—	Replacement Key for Y Series 4 Tumbler A126 Code, Nylon Molded Head									CKC8028-ND	1.72	1.49	1.25	115140126
	Replacement Key for P Series Snap-In Version									CKC8029-ND	2.86	2.47	2.08	11599112602
	Series 6 Tumbler AAAA Code									CKC8027-ND	3.24	2.81	2.36	1110801
4	SP	1,2	On-Off	4	B	—	1-2	—	—	CKC8008-ND	10.44	9.02	7.60	YM061U2C205NQ
	SP	1,2	On-Off	4	D	—	1-2	—	—	CKC8009-ND	11.72	10.13	8.53	YM061U2C2WCNQ
	SP	1 only	On-Off	4	B	—	1-2	—	—	CKC8010-ND	10.44	9.02	7.60	YM06132C205NQ
	SP	1 only	On-Off	4	D	—	1-2	—	—	CKC8011-ND	11.72	10.13	8.53	YM06132C2WCNQ
—	Replacement Key for YM Series 4 Tumbler 0029 Code									401-2021-ND	2.25	1.80	1.43	960B10029
5	SP	1 only	On-On	4	B	8-1,	1-3	—	—	CKC8012-ND	11.77	10.17	8.56	P10113TCM03Q22
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8013-ND	13.55	11.71	9.86	P20113TCM03Q22
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8014-ND	11.77	10.17	8.56	P1011UTCM03Q22
6	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8016-ND	4.65	4.02	3.38	P1011U2WM03NQ2
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8017-ND	5.26	4.55	3.83	P2011U2WM03NQ2
	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8018-ND	4.65	4.02	3.38	P101132WM03NQ2
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8019-ND	5.43	4.69	3.95	P201132WM03NQ2
	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8033-ND	4.40	3.80	3.20	P101133WM03NQ2
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8034-ND	5.17	4.47	3.77	P2011U33WM03NQ2
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8035-ND	5.01	4.33	3.65	P2011U3WM03NQ2
7	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC1234-ND	9.84	8.51	7.16	YF01132C203NQ
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC1235-ND	10.83	9.35	7.88	YF21132C203NQ
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC1236-ND	10.04	8.67	7.31	YF011U2C203NQ
8	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8023-ND	11.35	9.81	8.26	BY011UJC03NQ22
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8024-ND†	12.25	10.58	8.91	BY011UJC03LQ22
	SP	1,2,3	On-On-On	4	B	8-1	1-2	7-8	—	CKC8025-ND†	12.70	10.98	9.24	BY01AFJC03LQ22
9	SP	1 only	Off-On	4	B	1-2	—	—	—	CKC8021-ND	13.39	11.57	9.74	PM0613EBM05KQ22
	SP	1,2	On-Off	4	B	1-2	—	—	—	CKC8022-ND	13.66	11.80	9.94	PM061UEBM05KQ22
										5 Tumbler Miniature Camlocks				
10	Miniature Camlock with 90 Index									CKC8048-ND	5.68	4.91	4.13	PL001UEBMA1K22

† With Latch Pawl

Note: All switches come with hardware and 2 keys.

Termination Options

A

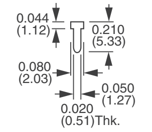

B

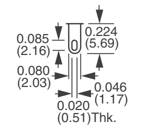

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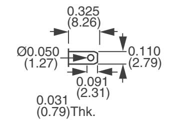

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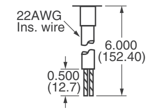

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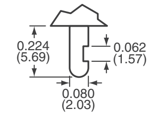

Honeywell Sensing and Control HOBBS Key and Push/Pull Switches

Dimensions in Inches (mm)

The Hobbs key switch is a custom-engineered, environmentally sealed, sliding contact switch. The stainless steel keyhole shroud and the keyhole dust shutter contribute to the durability of the key tumbler assembly while o-rings protect the contact and rotor assembly from moisture and contamination.

Specifications: • Electrical Rating: 20A@12VDC, 8A@24VDC (10A@24VDC: 084830 07), 4A @ 48VDC • Cycle Life at Design Electrical Load: 25,000 Cycles

The Hobbs push/pull switch is a robust, environmentally sealed, sliding contact switch incorporating two circuits with multiple combinations. The sliding contacts provide positive contact closure and opening when the switch knob is operated.

Specifications: • Electrical Rating: 20A @ 12 ~ 14VDC, 10A @ 24VDC • Cycle Life at Design Electrical Load: 25,000 Cycles

Fig.	Circuitry	Switch Function	Operating Temperature (°C)	Digi-Key Part No.	Price Each			Honeywell Part No.
					1	50	100	
				Key Switches				
1	—	On-Off	-40 ~ 85	480-2086-ND	23.66	17.16	16.57	084825 02
	—	Off-On-Start	-40 ~ 85	480-2087-ND	26.88	19.49	18.82	084826 01
2	—	Off-On-Start	-40 ~ 85	700-1001-ND	21.35	15.48	14.95	089477 01
3	—	Off-On	-40 ~ 85	480-2083-ND	23.90	16.30	15.49	084828 07
	—	Off-On-Start	-40 ~ 85	480-2084-ND	27.20	19.72	19.04	084829 07
	—	On-Off-On	-40 ~ 85	480-2085-ND	23.66	17.16	16.57	084830 02
	—	On-Off-On	-40 ~ 85	700-1002-ND	23.66	17.16	16.57	084830 07
				Push/Pull Switches				
4	2 NO	—	-40 ~ 100	480-2081-ND	18.55	13.25	12.59	087941 08
	1 NO, 1 NC	—	-40 ~ 100	480-2082-ND	17.77	12.70	12.06	087943 08

Fig. 1

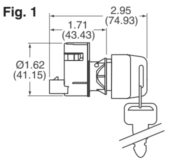

Fig. 2

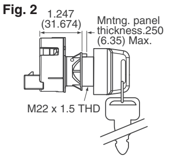

Fig. 3

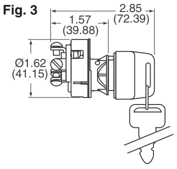

Fig. 4

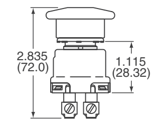

E•SWITCH™

Keylock Switches KO Series

Materials: • Housing and Cylinder: Die cast zinc alloy • Mounting nut and two keys

Fig. 1

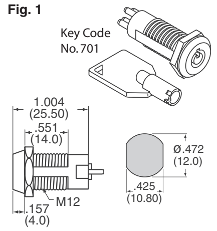

Fig. 2

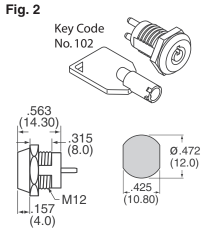

Fig. 3

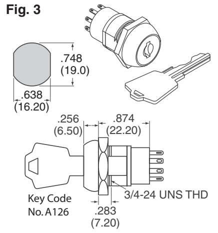

Fig. 4

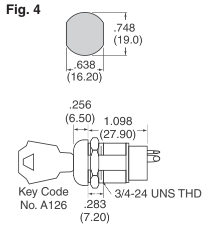

Rubber Cover

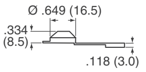

Metal Dust Cap

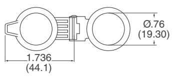

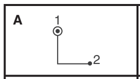

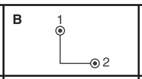

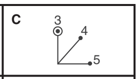

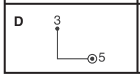

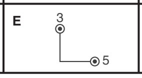

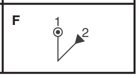

● = Detent Position ⊙ = Keypull Possible ▲ = Momentary

Series	Ratings	Insulation Resistance
KO103	1A @ 125VAC; 0.5A @ 250VAC	200MΩ min.
KO106	1A @ 125VAC; 0.5A @ 250VAC	200MΩ min.
KO129	4A @ 125VAC; 2A @ 250VAC	200MΩ min.
KO130	4A @ 125VAC; 2A @ 250VAC	200MΩ min.

Fig.	Lock Configuration	No. of Poles	Key Pull Possible	Switch Type	Amp Rating @ 125 VAC	Termination	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1A	90° Indexing	SPDT	1	On-On	1	Solder	EG2623-ND	5.52	4.97	3.98	KO103C701
1B	90° Indexing	SPDT	1 and 2	On-On	1	Solder	EG2624-ND	5.52	4.97	3.98	KO103D701
2B	90° Indexing	SPST	1 and 2	Off-On	1	Solder	EG2625-ND	2.65	2.39	1.91	KO106A102
3C	45°-45° Indexing	SP-3 pos.	3	On-On-On	4	Eyelet	EG2626-ND	10.35	9.32	7.46	KO130AA126
3C	45°-45° Indexing	DP-3 pos.	3	On-On-On	4	Eyelet	EG2627-ND	10.98	9.89	7.91	KO130BA126
3D	90° Indexing	DPDT	5	On-On	4	Eyelet	EG2628-ND	10.35	9.32	7.46	KO130QA126
3E	90° Indexing	SPDT	3 and 5	On-On	4	Eyelet	EG2629-ND	11.57	10.42	8.33	KO130RA126
4F	45° Indexing	SPDT	1	On-Mom	4	Eyelet	EG2630-ND	13.25	11.93	9.54	KO129E
Covers											
Rubber Cover for KO103 Series							EG2631-ND	.74	.67	.54	KOC1
Metal Dust Cap for KO130 Series							EG2632-ND	3.54	3.19	2.55	KOM4
Replacement Keys											
Replacement Key, Keycode 701							EG4405-ND	1.23	1.11	.89	KOKEY701
Replacement Key, Keycode A126							EG4406-ND	1.23	1.11	.89	KOKEYA126
Replacement Key, Keycode 102							EG4407-ND	1.62	1.46	1.17	KOKEY102

NKK® SWITCHES

Keylock Switches

RoHS COMPLIANT

Features: • **SK series:** Short behind panel dimension - only 1.063"(27.0mm); Detent mechanism gives crisp, positive action for accurate switch setting • **CK series** High insulating material withstands over 15 kilovolts of electrostatic discharge, thus providing antistatic feature. Rugged, die cast housing designed for higher security requirements **Specifications:** • **Power Voltage:** 3A @ 250V AC • **Operating Temperature:** -25°C ~ 70°C • **Mechanical Life:** 30,000 cycles minimum • **Electrical Life:** 10,000 cycles minimum **Materials:** • **Housing/Bushing:** Zinc alloy with chrome plating for CKL series; Glass fiber reinforced PBT for CKM series

Fig.	Key Positions Pos. 1	Pos. 2	Pos. 3	Key Removable Positions	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
12mm Miniature Low Security (All same Keycodes)									
1	On	None	On	1, 3	360-1935-ND	12.71	9.21	8.20	SK12AAW01-RO
	On	None	On	1	360-1936-ND	12.71	9.21	8.20	SK12BAW01-RO
	On	Off	On	1, 2, 3	360-1937-ND	13.39	9.70	8.63	SK13DAW01-RO
	On	Off	On	2	360-1938-ND	13.39	9.70	8.63	SK13EAW01-RO
Replacement Key for SK12 Switches, Marked 1201					360-1010-ND	2.56	1.52	1.36	AT4081
Replacement Key for SK13 Switches, Marked 1301					360-2289-ND	2.56	1.52	1.36	AT4082
16mm High Security Antistatic - Flat Key Version (10 Keycodes)									
2	On	None	On	1, 3	360-1447-ND	12.51	9.07	8.07	CKM12AFW01
	On	None	On	1	360-1448-ND	12.51	9.07	8.07	CKM12BFW01
	On	Off	On	2	360-1449-ND	13.51	9.83	8.91	CKM13EFW01
16mm High Security Antistatic - Tubular Key Version (25 Keycodes)									
2	On	None	On	1, 3	360-1450-ND	12.51	9.07	8.07	CKM12ATW01
	On	None	On	1	360-1451-ND	12.51	9.07	8.07	CKM12BTW01
	On	Off	On	2	360-1452-ND	13.51	9.83	8.91	CKM13ETW01
19mm High Security - Flat Key Version (25 Keycodes)									
3	On	None	On	1, 3	360-1453-ND	12.67	9.18	8.17	CKL12AFW01
	On	None	On	1	360-1454-ND	12.67	9.18	8.17	CKL12BFW01
	On	Off	On	2	360-1455-ND	13.66	9.94	9.01	CKL13EFW01
19mm High Security - Tubular Key Version (50 Keycodes)									
3	On	None	On	1, 3	360-1456-ND	12.67	9.18	8.17	CKL12ATW01
	On	None	On	1	360-1457-ND	12.67	9.18	8.17	CKL12BTW01
	On	Off	On	2	360-1458-ND	13.66	9.94	9.01	CKL13ETW01

Fig. 1 Dimensions in (mm) Inch

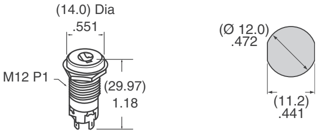

• Low Security • 2 Keys Supplied (All Same Keycode)

Fig. 2

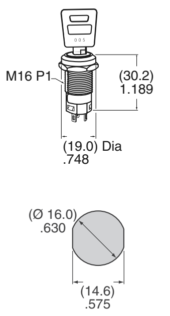

• 1 Key Supplied

Fig. 3

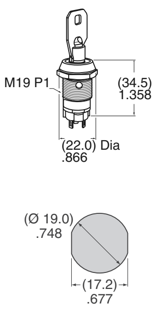

• 1 Key Supplied

Tyco Electronics Alcoswitch

Keylock Switchlocks

Authorized Distributor

RoHS COMPLIANT

Note: All Keylocks are supplied with 2 brass keys on a ring.

Fig. 1

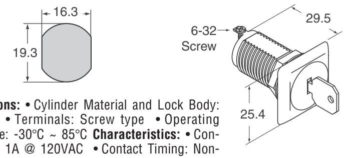

Specifications: • Cylinder Material and Lock Body: Zinc Alloy • Terminals: Screw type • Operating Temperature: -30°C ~ 85°C **Characteristics:** • Contact Rating: 1A @ 120VAC • Contact Timing: Non-shorting • Actuator Travel: 90° • Life Expectancy: 10,000 Cycles

Fig. 2

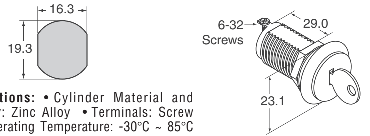

Specifications: • Cylinder Material and Lock Body: Zinc Alloy • Terminals: Screw type • Operating Temperature: -30°C ~ 85°C **Characteristics:** • Contact Rating: 1A @ 120VAC • Contact Timing: Non-shorting • Actuator Travel: 90° • Life Expectancy: 10,000 Cycles

Fig. 3

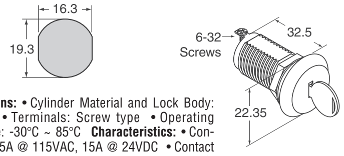

Specifications: • Cylinder Material and Lock Body: Zinc Alloy • Terminals: Screw type • Operating Temperature: -30°C ~ 85°C **Characteristics:** • Contact Rating: 5A @ 115VAC, 15A @ 24VDC • Contact Timing: Non-shorting • Actuator Travel: 90° • Life Expectancy: 20,000 Cycles

Fig.	Lock Configuration	Poles	Keypull Possible	Switch Type	Current	Terminal	Digi-Key Part No.	Price Each 1	10	25	50	Alcoswitch Part No.
1	90° Indexing	SPST	1, 2	On-Off	1A	6-32 Screw	450-1003-ND	17.17	15.70	14.72	14.23	2SKF132AEL01
			1 only	On-Off			450-1005-ND	16.85	15.41	14.45	13.97	2SKF131AEL01
			1 only	Off-Mom			450-1008-ND	23.66	21.64	20.28	19.61	2SKF231AEL01
2	90° Indexing	SPST	1, 2	On-Off	1A	6-32 Screw	450-1004-ND	18.46	16.88	15.83	15.30	2SWK132AL101
			1 only	On-Off			450-1006-ND	21.89	20.02	18.77	18.14	2SWK131AL101
			1 only	Off-Mom			450-1007-ND	16.22	14.84	13.91	13.45	2SWK231AL101
3	90° Indexing	SPST	1, 2	On-Off	5A	6-32 Screw	450-1011-ND	20.74	18.96	17.78	17.19	SWK12F315
			2 only				450-1010-ND	20.74	18.96	17.78	17.19	SWK121F315
			1 only				450-1009-ND	20.74	18.96	17.78	17.19	SWK123F315

OMRON Basic Type Snap Switches

V Series — Standard Series
VX Series — Low Current STD Series

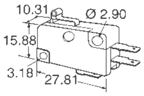

D3V Series — Low Cost Series

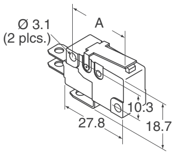

D2VW Series — Watertight Series; IP67

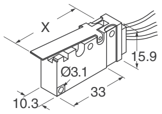

Fig. 1

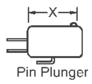

Fig. 2

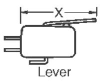

Fig. 3

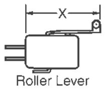

Fig. 4

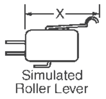

SS Series — Standard Series
SS-P Series — Low Cost Series

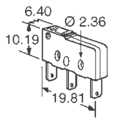

D2SW Series — Watertight; IP67

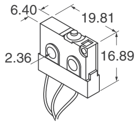

D2SW-P Series — Low Cost, Watertight; IP67

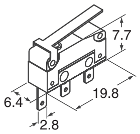

Fig. 5

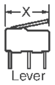

Fig. 6

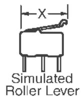

Fig. 7

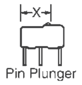

Fig. 8

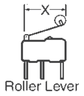

Fig. 9 — D2F Series

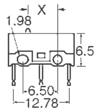

Fig. 10 — D2F Lever Series

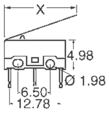

V/VX Series: Features: • Operating Frequency: Mechanical: 600 operations per minute; Electrical: 30 operations per minute • Contact Resistance: 15mΩ maximum • Ambient Operating Temperature: -25°C ~ 80°C • Humidity: 85% RH maximum • Service Life: Mechanical: 50,000,000 operations minimum; Electrical: 100,000 operations minimum

D3V Series: Features: • Reliable and safe basic switch • External lever • Environment friendly with beryllium free contacts • Low cost version of V Series

Watertight D2VW/D2FW Miniature Basic Switch: Features: • High-quality, watertight, high-precision miniature basic switch — meets IP67 requirements • Monoblock construction assures high sealing capability and is ideal for dusty places or where water is sprayed • This series internal mechanism assures high operating-position accuracy (±0.4mm) and long life (Mechanical: 10 million operations) • Wide operating temperature range of -40°C ~ 90°C is ideal for any operating environment • General-load (5A @ 250VAC) and micro-load (.1A @ 125VAC) available

SS/SS-P Series: Features: • Economical, subminiature basic switch offers long mechanical service life (SS-1 and SS-5 Series: 30 million operations minimum; SS-10 Series: 10 million operations minimum; SS-P Series: 1 million operations minimum) • Wide switching capacity range from micro-voltage/ current loads (1mA @ 5VDC) to high-capacity loads (10.1A @ 250VAC) **Characteristics:** • Operating Frequency: Mechanical: 400 operations per minute; Electrical: 60 operations per minute • Ambient Operating Temperature: -25°C ~ 85°C • Humidity: 85% RH maximum

Watertight D2SW Miniature Basic Switch: Features: • High-quality, watertight miniature basic switch — meets IP67 requirements • A wide operating temperature range of -40°C ~ 85°C is ideal for any operating environment • Ideal for the automobile, agricultural machinery, automatic vending machine, refrigerator, ice-manufacturing, bath equipment, hot-water supply, air conditioner, and factory machine industries **Characteristics:** • Operating Frequency: Mechanical: 300 operations per minute; Electrical: 30 operations per minute • Contact Resistance: 70mΩ maximum • Life Expectancy: Mechanical: 5,000,000 operations minimum; Electrical: 200,000 operations minimum • Ambient Operating Humidity: 95% maximum • Enclosure Rating: Reference to IP67

Watertight D2SW-P Series: Characteristics: • Operating Temperature Range: -20°C ~ 70°C • Life Expectancy: Mechanical: 1,000,000 operations minimum • 2A @ 250VAC • IP67 Sealed

D2F Series: Features: • Super compact; ideal for PCB mounting • Long life span assured by high-precision dual spring reverse-action mechanism • Flux penetration prevented by using an insert terminal and allowing a height difference at the case bottom • Ideal for a wide variety of applications, from household appliances and office equipment to audio equipment and communications equipment

D3C Series: Features: • Built-in slide mechanism selects shorting or non-shorting switch timing • 3mm long stroke • PCB mount switch with 100mA capacity • Ideal for household appliances, sound equipment, office equipment, communications equipment, etc. • Compact size (8W x 6H x 4.2D mm) **Characteristics:** • Operating Frequency: Mechanical: 200 operations per minute; Electrical: 30 operations per minute • Contact Resistance: 50mΩ maximum • Ambient Operating Temperature: -20°C ~ 80°C • Operating Humidity: 65% maximum at 5°C ~ 35°C • Service Life: 50,000 operations minimum at the rated switch frequency

Watertight D2HW Series: Features: • Smallest sealed snap action switch • Fully sealed construction • Lead free construction • Conforms to IP67 (wire leads) and IP50 (terminal type) • Long stroke, even without levers for reliable On-Off action

Fig.	Contact Style	Contact Rating (A)	Terminal Size Inch (mm)	Dim. "X" (mm)	Actuation Force	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
V Series										
1	SPDT	10	.187 QC (4.75)	24.38	100gf	SW126-ND	1.85	1.67	1.48	V-10G-1C24-K
1	SPDT	15	.187 QC (4.75)	24.38	200gf	SW874-ND	2.25	2.03	1.80	V-15G-1C5-K
2	SPDT	10	.187 QC (4.75)	38.35	125gf	SW127-ND	1.88	1.69	1.50	V-10G2-1C25-K
3	SPDT	10	.187 QC (4.75)	24.38	240gf	SW128-ND	2.25	2.03	1.80	V-10G5-1C25-K
1	SPDT	15	.187 QC (4.75)	24.38	200gf	SW129-ND	1.85	1.67	1.48	V-15G-1C25-K
1	SPDT	15	.187 QC (4.75)	24.38	400gf	SW130-ND	1.85	1.67	1.48	V-15G-1C26-K
2	SPDT	15	.187 QC (4.75)	38.35	125gf	SW132-ND	1.88	1.69	1.50	V-15G2-1C26-K
2	SPDT	15	.187 QC (4.75)	38.35	125gf	SW875-ND	2.25	2.03	1.80	V-15G2-1C25-K
2	SPDT	15	.187 QC (4.75)	62.23	100gf	Z2252-ND	2.25	2.03	1.80	V-15G3-1C24-K
2	SPDT	15	.187 QC (4.75)	62.23	70gf	SW133-ND	2.05	1.85	1.64	V-15G3-1C25-K
2	SPDT	15	.187 QC (4.75)	62.23	130gf	SW134-ND	2.05	1.85	1.64	V-15G3-1C26-K
4	SPDT	15	.187 QC (4.75)	38.86	125gf	SW135-ND	1.98	1.78	1.58	V-15G4-1C25-K
3	SPDT	15	.187 QC (4.75)	24.38	480gf	SW136-ND	2.25	2.03	1.80	V-15G5-1C26-K
3	SPDT	15	.187 QC (4.75)	34.04	250gf	SW151-ND	2.25	2.03	1.80	V-15G6-1C26-K
VX Series										
2	SPDT	0.1	.187 QC (4.75)	20.2	30gf	SW987-ND	3.86	3.48	3.09	VX-012-1A3
2	SPDT	0.1	.187 QC (4.75)	59.4	20gf	SW988-ND	4.09	3.68	3.27	VX-013-1C23
3	SPDT	0.1	.187 QC (4.75)	20.1	60gf	SW989-ND	4.31	3.88	3.45	VX-015-1A3
3	SPDT	0.1	.187 QC (4.75)	59.4	60gf	SW876-ND	4.31	3.88	3.45	VX-015-1C23
1	SPDT	5	.187 QC (4.75)	—	25gf	SW990-ND	3.13	2.82	2.51	VX-5-1A2
1	SPDT	5	.187 QC (4.75)	—	50gf	SW991-ND	3.13	2.82	2.51	VX-5-1A3
1	SPDT	5	.187 QC (4.75)	—	25gf	SW992-ND	3.13	2.82	2.51	VX-5-1C22
1	SPDT	5	.187 QC (4.75)	—	50gf	SW993-ND	3.13	2.82	2.51	VX-5-1C23
2	SPDT	5	.187 QC (4.75)	20.2	30gf	SW994-ND	3.43	3.09	2.75	VX-52-1A3
2	SPDT	5	.187 QC (4.75)	20.2	30gf	SW995-ND	3.43	3.09	2.75	VX-52-1C23
2	SPDT	5	.187 QC (4.75)	59.4	20gf	SW996-ND	3.65	3.29	2.92	VX-53-1A3
2	SPDT	5	.187 QC (4.75)	59.4	20gf	SW997-ND	3.65	3.29	2.92	VX-53-1C23
4	SPDT	5	.187 QC (4.75)	32.6	30gf	SW998-ND	3.50	3.15	2.80	VX-54-1A3
4	SPDT	5	.187 QC (4.75)	32.6	30gf	SW999-ND	3.50	3.15	2.80	VX-54-1C23
3	SPDT	5	.187 QC (4.75)	20.1	60gf	SW1000-ND	3.95	3.56	3.16	VX-55-1A3
3	SPDT	5	.187 QC (4.75)	20.1	60gf	SW1001-ND	3.95	3.56	3.16	VX-55-1C23
3	SPDT	5	.187 QC (4.75)	34.0	30gf	SW1002-ND	3.95	3.56	3.16	VX-56-1A3
3	SPDT	5	.187 QC (4.75)	34.0	30gf	SW1003-ND	3.95	3.56	3.16	VX-56-1C23
D3V Series										
1	SPDT	11	.187 QC (4.75)	20.2	200gf	SW707-ND	1.75	1.58	1.40	D3V11G1C25K
2	SPDT	11	.187 QC (4.75)	35.6	125gf	SW708-ND	2.03	1.83	1.62	D3V11G21C25K
2	SPDT	11	.187 QC (4.75)	35.6	125gf	SW709-ND	1.98	1.78	1.58	D3V11G2M1C25K
4	SPDT	11	.187 QC (4.75)	32.6	125gf	SW710-ND	2.03	1.83	1.62	D3V11G41C25K
4	SPDT	11	.187 QC (4.75)	32.6	125gf	SW711-ND	1.98	1.78	1.58	D3V11G4M1C25K
3	SPDT	11	.187 QC (4.75)	34.0	125gf	SW712-ND	2.43	2.19	1.94	D3V11G61C25K
3	SPDT	11	.187 QC (4.75)	34.0	125gf	SW713-ND	2.23	2.01	1.78	D3V11G6M1C25K
1	SPDT	16	.187 QC (4.75)	20.2	200gf	SW700-ND	1.75	1.58	1.40	D3V16G1C25K
2	SPDT	16	.187 QC (4.75)	35.6	125gf	SW701-ND	2.03	1.83	1.62	D3V16G21C25K
2	SPDT	16	.187 QC (4.75)	35.6	125gf	SW702-ND	1.98	1.78	1.58	D3V16G2M1C25K
4	SPDT	16	.187 QC (4.75)	32.6	125gf	SW703-ND	2.03	1.83	1.62	D3V16G41C25K
4	SPDT	16	.187 QC (4.75)	32.6	125gf	SW704-ND	1.98	1.78	1.58	D3V16G4M1C25K
3	SPDT	16	.187 QC (4.75)	34.0	125gf	SW705-ND	2.43	2.19	1.94	D3V16G61C25K
3	SPDT	16	.187 QC (4.75)	34.0	125gf	SW706-ND	2.23	2.01	1.78	D3V16G6M1C25K
Watertight IP67 D2VW Series										
1	SPDT	0.1	.187 QC (4.75)	—	200gf	SW427-ND	3.55	3.20	2.84	D2VW-01-1HS
1	SPDT	0.1	12 Wires (304.8)	—	200gf	SW428-ND	7.28	6.55	5.82	D2VW-01-1MS
2	SPDT	0.1	.187 QC (4.75)	59.0	120gf	SW429-ND	4.25	3.83	3.40	D2VW-01L1-1HS
2	SPDT	0.1	.187 QC (4.75)	59.0	60gf	SW863-ND	5.08	4.57	4.07	D2VW-01L1B-1HS
2	SPDT	0.1	12 Wires (304.8)	59.0	120gf	SW430-ND	7.63	6.87	6.10	D2VW-01L1-1MS
3	SPDT	0.1	.187 QC (4.75)	20.1	230gf	SW864-ND	6.11	5.51	4.90	D2VW-01L2A-1HS
3	SPDT	0.1	.187 QC (4.75)	34.0	120gf	SW431-ND	5.68	5.11	4.54	D2VW-01L2-1HS
3	SPDT	0.1	12 Wires (304.8)	34.0	120gf	SW432-ND	7.43	6.69	5.94	D2VW-01L2-1MS
1	SPDT	5	.187 QC (4.75)	—	200gf	SW433-ND	3.40	3.06	2.72	D2VW-5-1HS
1	SPDT	5	12 Wires (304.8)	—	200gf	SW434-ND	5.63	5.07	4.50	D2VW-5-1MS
2	SPDT	5	.187 QC (4.75)	35.6	120gf	SW435-ND	3.55	3.20	2.84	D2VW-5L1-1HS
2	SPDT	5	12 Wires (304.8)	35.6	120gf	SW436-ND	5.48	4.93	4.38	D2VW-5L1-1MS
3	SPDT	5	.187 QC (4.75)	34.0	120gf	SW437-ND	3.78	3.40	3.02	D2VW-5L2-1HS
3	SPDT	5	12 Wires (304.8)	34.0	120gf	SW438-ND	5.85	5.27	4.68	D2VW-5L2-1MS
SS Miniature Series										
7	SPDT Gold	0.1	.110 QC (2.79)	13.46	50gf	SW138-ND	2.08	1.87	1.66	SS-01FT
7	SPDT Gold	0.1	.110 QC (2.79)	13.46	25gf	SW1005-ND	3.01	2.71	2.41	SS-01-ET
5	SPDT Gold	0.1	.110 QC (2.79)	19.69	50gf	SW139-ND	2.30	2.07	1.84	SS-01GLT
7	SPDT Gold	0.1	PC Mount	13.46	150gf	SW155-ND	2.03	1.83	1.62	SS-01D
5	SPDT Gold	0.1	PC Mount	19.69	50gf	SW239-ND	2.00	1.80	1.60	SS-01GLD
6	SPDT Gold	0.1	PC Mount	21.59	50gf	SW240-ND	2.00	1.80	1.60	SS-01GL13D
6	SPDT Gold	0.1	Solder Term.	21.59	50gf	SW865-ND	2.00	1.80	1.60	SS-01GL13
8	SPDT Gold	0.1	PC Mount	19.61	50gf	SW343-ND	2.40	2.16	1.92	SS-01GL2D
8	SPDT Gold	0.1	PC Mount	19.61	16gf	SW866-ND	3.00	2.70	2.40	SS-01GL2-FD
7	SPDT	5	Solder Term.	13.46	50gf	SW870-ND	1.23	1.11	.98	SS-5-F
7	SPDT	5	Solder Term.	13.46	150gf	SW868-ND	1.23	1.11	.98	SS-5
7	SPDT	5	Right Angle PCB	13.46	150gf	SW869-ND	1.23	1.11	.98	SS-5D2
7	SPDT	5	.110 QC (2.79)	13.46	150gf	SW141-ND	1.35	1.22	1.08	SS-5T
5	SPDT	5	Solder Term.	14.5	50gf	SW986-ND	1.58	1.42	1.26	SS-5GL
5	SPDT	5	Solder Term.	14.5	16gf	SW1007-ND	1.77	1.60	1.42	SS-5GL-F
5	SPDT	5	.110 QC (2.79)	19.69	50gf	SW143-ND	1.23	1.11	.98	SS-5GLT
6	SPDT	5	Solder Term.	21.59	16gf	SW1006-ND	1.62	1.47	1.30	SS-5GL13-F
6	SPDT	5	.110 QC (2.79)	21.59	50gf	SW144-ND	1.18	1.06	.94	SS-5GL13T
6	SPDT	5	Solder Term.	21.59	50gf	SW871-ND	1.90	1.71	1.52	SS-5GL13
8	SPDT	5	.110 QC (2.79)	19.61	50gf	SW872-ND	1.90	1.71	1.52	SS-5GL2-FT
7	SPDT	5	.110 QC (2.79)	13.46	50gf	SW142-ND	1.23	1.11	.98	SS-5FT
8	SPDT	5	.110 QC (2.79)	19.61	50gf	SW873-ND	1.90	1.71	1.52	SS-5GL2T
8	SPDT	5	Solder Term.	19.61	50gf	SW156-ND	1.45	1.31	1.16	SS-5GL2
7	SPDT	5	PC Mount	13.46	150gf	SW241-ND	1.23	1.11	.98	SS-5D

(Continued)

OMRON Basic Type Snap Switches *(Cont.)*

Fig. 11 — D2FW Series
Watertight; IP67

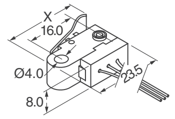

Fig. 14 — D3C Series

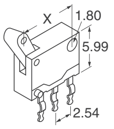

D2MQ Series

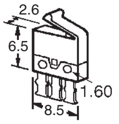

Fig. 12

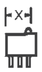

Pin Plunger

Fig. 13

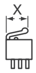

Leaf Lever

D2HW Series — Watertight; IP67

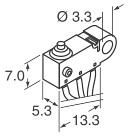

Fig. 15

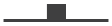

Fig. 16

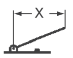

Fig. 17

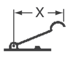

Fig. 18

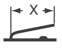

Fig. 19

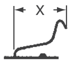

A

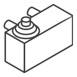

B

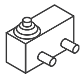

C

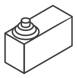

D

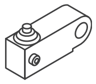

Fig.	Contact Style	Contact Rating (A)	Terminal Size Inch (mm)	Dim. "X" (mm)	Actu-ation Force	Digi-Key Part No.	Price Each			Omron Part No.
							1	25	50	
5	SPDT	5	PC Mount	19.69	50gf	SW242-ND	1.48	1.33	1.18	SS-5GLD
6	SPDT	5	PC Mount	21.59	50gf	SW243-ND	1.53	1.38	1.22	SS-5GL13D
8	SPDT	5	PC Mount	19.61	50gf	SW244-ND	1.73	1.56	1.38	SS-5GL2D
7	SPDT	10	.110 QC (2.79)	13.46	150gf	SW245-ND	2.18	1.96	1.74	SS-10T
5	SPDT	10	.110 QC (2.79)	19.69	50gf	SW867-ND	2.08	1.87	1.66	SS-10GL
5	SPDT	10	.110 QC (2.79)	19.69	50gf	SW246-ND	1.98	1.78	1.58	SS-10GLT
6	SPDT	10	.110 QC (2.79)	21.59	50gf	SW247-ND	2.00	1.80	1.60	SS-10GL13T
8	SPDT	10	.110 QC (2.79)	19.61	50gf	SW248-ND	2.23	2.01	1.78	SS-10GL2T
Low Cost SS-P Subminiature Series										
7	SPDT	3	Solder	12.70	150gf	SW763-ND	.71	.64	.57	SS-3GP
5	SPDT	3	Solder	19.65	50gf	SW764-ND	.83	.75	.67	SS-3GLP
6	SPDT	3	Solder	20.95	50gf	SW765-ND	.83	.75	.67	SS-3GL13P
7	SPDT	3	.110 QC (2.79)	12.70	150gf	SW766-ND	.71	.64	.57	SS-3GPT
5	SPDT	3	.110 QC (2.79)	19.65	50gf	SW767-ND	.83	.75	.67	SS-3GLPT
6	SPDT	3	.110 QC (2.79)	20.95	50gf	SW768-ND	.83	.75	.67	SS-3GL13PT
7	SPDT	3	PC Mt. (uneven)	12.70	150gf	SW769-ND	.71	.64	.57	SS-3GPD
5	SPDT	3	PC Mt. (uneven)	19.65	50gf	SW770-ND	.83	.75	.67	SS-3GLPD
6	SPDT	3	PC Mt. (uneven)	20.95	50gf	SW771-ND	.83	.75	.67	SS-3GL13PD
7	SPDT	3	PC Mt. (even)	12.70	150gf	SW772-ND	.71	.64	.57	SS-3GPB
5	SPDT	3	PC Mt. (even)	19.65	50gf	SW773-ND	.83	.75	.67	SS-3GLPB
6	SPDT	3	PC Mt. (even)	20.95	50gf	SW774-ND	.83	.75	.67	SS-3GL13PB
7	SPDT Gold	0.1	Solder	12.70	150gf	SW775-ND	.79	.71	.63	SS-01GP
5	SPDT Gold	0.1	Solder	19.65	50gf	SW776-ND	.92	.83	.74	SS-01GLP
6	SPDT Gold	0.1	Solder	20.95	50gf	SW777-ND	.92	.83	.74	SS-013GL13P
7	SPDT Gold	0.1	.110 QC (2.79)	12.70	150gf	SW778-ND	.79	.71	.63	SS-01GPT
5	SPDT Gold	0.1	.110 QC (2.79)	19.65	50gf	SW779-ND	.92	.83	.74	SS-01GLPT
6	SPDT Gold	0.1	.110 QC (2.79)	20.95	50gf	SW780-ND	.92	.83	.74	SS-01GL13PT
7	SPDT Gold	0.1	PC Mt. (uneven)	12.70	150gf	SW781-ND	.79	.71	.63	SS-01GPD
5	SPDT Gold	0.1	PC Mt. (uneven)	19.65	50gf	SW782-ND	.92	.83	.74	SS-01GLPD
6	SPDT Gold	0.1	PC Mt. (uneven)	20.95	50gf	SW783-ND	.92	.83	.74	SS-01GL13PD
7	SPDT Gold	0.1	PC Mt. (even)	12.70	150gf	SW784-ND	.79	.71	.63	SS-01GPB
5	SPDT Gold	0.1	PC Mt. (even)	19.65	50gf	SW785-ND	.92	.83	.74	SS-01GLPB
6	SPDT Gold	0.1	PC Mt. (even)	20.95	50gf	SW786-ND	.92	.83	.74	SS-01GL13PB
Watertight IP67 D2SW Series										
5	SPDT	3	Solder	19.69	60gf	SW293-ND	2.68	2.41	2.14	D2SW-3L1HS
5	SPDT	3	.110 QC (2.79)	19.69	60gf	SW294-ND	2.68	2.41	2.14	D2SW-3L1TS
6	SPDT	3	12" Wires (304.8)	19.69	60gf	SW295-ND	4.35	3.92	3.48	D2SW-3L1MS
6	SPDT	3	Solder	21.59	60gf	SW296-ND	2.68	2.41	2.14	D2SW-3L3HS
6	SPDT	3	12" Wires (304.8)	21.59	60gf	SW297-ND	4.35	3.92	3.48	D2SW-3L3MS
7	SPDT	3	Solder	13.46	180gf	SW228-ND	2.53	2.28	2.02	D2SW-3HS
7	SPDT	3	.110 QC (2.79)	13.46	180gf	SW229-ND	2.53	2.28	2.02	D2SW-3TS
7	SPDT	3	PC Mount	13.46	180gf	SW291-ND	2.53	2.28	2.02	D2SW-3DS
7	SPDT	3	12" Wires (304.8)	13.46	180gf	SW292-ND	4.18	3.76	3.34	D2SW-3MS
8	SPDT	0.1	12" Wires	19.61	60gf	SW862-ND	5.91	5.32	4.73	D2SW-01L2MS
8	SPDT	3	Solder	19.61	60gf	SW237-ND	3.05	2.75	2.44	D2SW-3L2HS
8	SPDT	3	12" Wires (304.8)	19.61	60gf	SW238-ND	4.60	4.14	3.68	D2SW-3L2MS
Watertight IP67 Low Cost D2SW-P Series										
6	SPDT	0.1	.110 QC (2.79)	15.8	61gf	SW805-ND	1.85	1.67	1.48	D2SW-P01L3T
6	SPDT	0.1	PC Mt. (uneven)	15.8	61gf	SW806-ND	1.85	1.67	1.48	D2SW-P01L3D
6	SPDT	0.1	PC Mt. (even)	15.8	61gf	SW807-ND	1.85	1.67	1.48	D2SW-P01L3B
6	SPDT	0.1	12" Wires (304.8)	15.8	61gf	SW808-ND	3.96	3.57	3.17	D2SW-P01L3M
7	SPDT	0.1	.110 QC (2.79)	—	183gf	SW803-ND	1.44	1.30	1.16	D2SW-P01T
7	SPDT	0.1	PC Mt. (uneven)	—	183gf	SW804-ND	1.44	1.30	1.16	D2SW-P01D
6	SPDT	2	Solder	15.8	61gf	SW811-ND	1.65	1.49	1.32	D2SW-P2L3H
6	SPDT	2	12" Wires (304.8)	15.8	61gf	SW812-ND	3.77	3.40	3.02	D2SW-P2L3M
7	SPDT	2	.110 QC (2.79)	—	183gf	SW809-ND	1.27	1.15	1.02	D2SW-P2T
8	SPDT	2	Solder	14.5	61gf	SW810-ND	2.04	1.84	1.63	D2SW-P2L2H
D2F Series										
9	SPDT	3	PC Mount	5.18	150gf	SW500-ND	1.00	.90	.80	D2F
9	SPDT	0.1	PC Mount	5.18	150gf	SW501-ND	1.00	.90	.80	D2F-01

Fig.	Contact Style	Contact Rating (A)	Terminal Size Inch (mm)	Dim. "X" (mm)	Actu-ation Force	Digi-Key Part No.	Price Each			Omron Part No.
							1	25	50	
9	SPDT	0.1	Solder Term	5.18	150gf	SW857-ND	1.22	1.10	.98	D2F-01-D
9	SPDT	0.1	PC Mount	5.18	75gf	SW502-ND	1.00	.90	.80	D2F-01F
9	SPDT	0.1	PC Mount	13.97	80gf	SW154-ND	1.10	.99	.88	D2F-01L
9	SPDT	0.1	Solder	12.8	80gf	SW840-ND	2.48	2.24	1.99	D2F-01L2-D
9	SPDT	3	PC Mount	5.18	75gf	SW503-ND	1.14	1.03	.91	D2F-F
10	SPDT	0.1	PC Mount	13.97	75gf	SW858-ND	1.33	1.20	1.07	D2F-01FL
10	SPDT	0.1	PC Mount	7.40	80gf	SW859-ND	1.46	1.32	1.17	D2F-01L3
10	SPDT	3	Solder Term	13.97	80gf	SW861-ND	1.27	1.15	1.02	D2F-L-D
10	SPDT	3	PC Mount	13.97	80gf	SW152-ND	1.10	.99	.88	D2F-L
10	SPDT	3	PC Mount	13.97	25gf	SW153-ND	1.10	.99	.88	D2F-FL
10	SPDT	3	PC Mount	13.97	80gf	SW860-ND	2.44	2.20	1.96	D2F-L2
10	SPDT	1	Right Angle	14	25gf	SW841-ND	1.95	1.76	1.56	D2F-FL-A
10	SPDT	3	Right Angle	14	80gf	SW842-ND	1.95	1.76	1.56	D2F-L-A
10	SPDT	3	Left Angle	14	80gf	SW843-ND	1.85	1.67	1.48	D2F-L-A1
Watertight IP67 D2FW Series										
11	SPST-NO	0.1	12 Wires (304.8)	22.8	250gf	SW511-ND	4.30	3.87	3.44	D2FW-G073M
11	SPST-NO	1	12 Wires (304.8)	22.8	250gf	SW512-ND	4.30	3.87	3.44	D2FW-G273M
11	SPST-NO	0.1	12 Wires (304.8)	19.0	300gf	SW513-ND	4.28	3.85	3.42	D2FW-G083M
11	SPST-NO	1	12 Wires (304.8)	19.0	300gf	SW514-ND	4.27	3.85	3.42	D2FW-G283M
D2MQ Series										
12	SPDT Silver	500mA	.05 (1.27)	6.00	120gf	SW145-ND	2.80	2.52	2.24	D2MQ-1
13	SPDT Silver	500mA	.05 (1.27)	7.70	60gf	SW146-ND	2.88	2.59	2.30	D2MQ-1L
D3C Series										
14	Non-Short	0.1	PC Mount	8.69	130gf	SW224-ND	1.13	1.02	.90	D3C-1210
14	Shorting	0.1	PC Mount	8.69	130gf	SW226-ND	1.13	1.02	.90	D3C-2210
14	Non-Short	0.1	PC Mount	8.69	40gf	SW225-ND	1.13	1.02	.90	D3C-1220
14	Shorting	0.1	PC Mount	8.69	40gf	SW227-ND	1.13	1.02	.90	D3C-2220
Watertight IP67 D2HW Miniature Series										
15A	SPDT	2	Right Angle PCB	—	76gf	SW714-ND	2.43	2.19	1.94	D2HWBR201DR
15B	SPDT	2	Right Angle PCB	—	76gf	SW715-ND	2.43	2.19	1.94	D2HWBL201DL
15C	SPDT	2	Straight PCB	—	76gf	SW716-ND	2.43	2.19	1.94	D2HWA201D
15A	SPDT	2	Down Wire Leads	—	76gf	SW719-ND	4.93	4.44	3.94	D2HWBR201M
15B	SPDT	2	Down Wire Leads	—	76gf	SW720-ND	4.93	4.44	3.94	D2HWBL201M
15D	SPDT	2	Down Wire Leads	—	76gf	SW721-ND	5.43	4.89	4.34	D2HWC201M
16A	SPDT	2	Right Angle PCB	13	61gf	SW717-ND	2.58	2.32	2.06	D2HWBR211DR
16A	SPDT	2	Down Wire Leads	13	61gf	SW722-ND	5.18	4.66	4.14	D2HWBR211M
16B	SPDT	2	Down Wire Leads	13	61gf	SW723-ND	5.18	4.66	4.14	D2HWBL211M
16D	SPDT	2	Down Wire Leads	13	61gf	SW724-ND	5.60	5.04	4.48	D2HWC211M
16A	SPST-NC	2	Right Wire Leads	13	61gf	SW725-ND	5.18	4.66	4.14	D2HWBR212MR
16B	SPST-NC	2	Right Wire Leads	13	61gf	SW726-ND	5.18	4.66	4.14	D2HWBL212MR
16D	SPST-NC	2	Right Wire Leads	13	61gf	SW727-ND	5.60	5.04	4.48	D2HWC212MR
16A	SPST-NO	2	Right Wire Leads	13	61gf	SW728-ND	5.18	4.66	4.14	D2HWBR213MR
16B	SPST-NO	2	Right Wire Leads	13	61gf	SW729-ND	5.18	4.66	4.14	D2HWBL213MR
16C	SPST-NO	2	Right Wire Leads	13	61gf	SW730-ND	5.60	5.04	4.48	D2HWC213MR
16A	SPST-NC	2	Left Wire Leads	13	61gf	SW731-ND	5.18	4.66	4.14	D2HWBR212ML
16B	SPST-NC	2	Left Wire Leads	13	61gf	SW732-ND	5.18	4.66	4.14	D2HWBL212ML
16A	SPST-NO	2	Left Wire Leads	13	61gf	SW733-ND	5.18	4.66	4.14	D2HWBR213ML
16B	SPST-NO	2	Left Wire Leads	13	61gf	SW734-ND	5.18	4.66	4.14	D2HWBL213ML
17A	SPDT	2	Down Wire Leads	16	61gf	SW737-ND	5.18	4.66	4.14	D2HWBR231M
17B	SPDT	2	Down Wire Leads	16	61gf	SW738-ND	5.18	4.66	4.14	D2HWBL231M
16B	SPDT	2	Right Angle PCB	20	41gf	SW718-ND	1.89	1.71	1.52	D2HWBL221DL
16A	SPDT	2	Down Wire Leads	20	41gf	SW735-ND	5.18	4.66	4.14	D2HWBR221M
16B	SPDT	2	Down Wire Leads	20	41gf	SW736-ND	5.18	4.66	4.14	D2HWBL221M
18A	SPDT	2	Down Wire Leads	8	183gf	SW739-ND	5.18	4.66	4.14	D2HWBR261M
18B	SPDT	2	Down Wire Leads	8	183gf	SW740-ND	5.18	4.66	4.14	D2HWBL261M
17A	SPDT	2	Down Wire Leads	16	183gf	SW741-ND	5.18	4.66	4.14	D2HWBR271M
17B	SPDT	2	Down Wire Leads	16	183gf	SW742-ND	5.18	4.66	4.14	D2HWBL271M
19A	SPDT	2	Down Wire Leads	20.85	92gf	SW743-ND	5.18	4.66	4.14	D2HWBR281M
19B	SPDT	2	Down Wire Leads	20.85	92gf	SW744-ND	5.18	4.66	4.14	D2HWBL281M

OMRON

J Series – Mini Snap Switches

Features: • Snap-action switch allows large-capacity switching (7A @ 250VAC) in spite of its small size (8.9 x 12.7 x 5.1mm) • Particularly suitable as control switches for applications where there are restrictions on installation space and weight

Characteristics: • Contact Resistance: 15mΩ maximum • Dielectric Strength: 600VAC, 50/60Hz for 1 minute between terminals of the same polarity • Durability: Mechanical: 10,000,000 operations minimum; Electrical: 50,000 operations minimum • Ambient Operating Temperature: -10°C ~ 80°C

Fig. 1

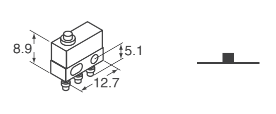

Fig. 2

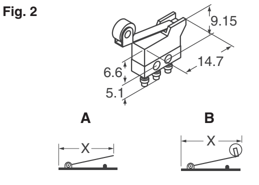

Fig.	Operating Force (gf) Maximum	Actuator Type	Dim. "X" (mm)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	140	Pin Plunger	—	SW813-ND	8.38	7.55	6.71	J-7
2A	50	Short Hinge Lever	12.7	SW814-ND	13.26	11.94	10.61	J-7-V
	30	Hinge Lever	22.0	SW815-ND	12.77	11.50	10.22	J-7-V3
	20	Long Hinge Lever	33.8	SW816-ND	12.77	11.50	10.22	J-7-V4
2B	55	Short Hinge Roller Lever	11.5	SW817-ND	14.78	13.31	11.83	J-7-V22
	33	Hinge Roller Lever	20.5	SW818-ND	14.80	13.32	11.84	J-7-V2

D2RW Series – Sealed Reed Snap Switches

Features:
- Internal reed switch circuit block is separated from the mechanical actuator block, enabling the circuit block to be entirely sealed • Use of a reed switch maintains high contact reliability with micro load range
- Compatible mounting dimension as miniature basic switch models V and D2VW

Characteristics:
- Switching Voltage: 100VDC maximum • Switching Current: .25A maximum • Contact Capacity: 10W maximum

Fig. 1

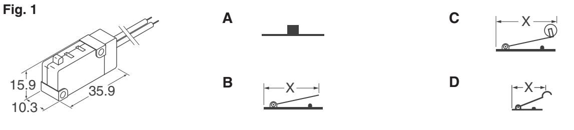

Fig.	Operating Force (gf) Maximum	Actuator Type	Dim. "X" (mm)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1A	153	Pin Plunger	—	SW830-ND	25.55	23.00	20.44	D2RW01
1B	76	Hinge Lever	35.6	SW829-ND	26.00	23.40	20.80	D2RW01L1
1C	76	Hinge Roller Lever	34.0	SW827-ND	26.46	23.81	21.17	D2RW01L2
1D	76	Simulated Roller Lever	32.6	SW828-ND	26.00	23.40	20.80	D2RW01L3

B3J Series – Tactile Switches

Superior snap action using Omron's B3F tact switches and hinged lever cap. Switches include hinged caps that are available with none, 1 or 2 LED's. Ideal for data entry, logic and digital signal input.

Characteristics: Switching Capacity: 1-50mA, 5-24VDC • Ambient Temperature: -25°C ~ 70°C • Contact Resistance: 100mΩ maximum (rated 1mA, 5VDC) • Dielectric Strength: 500VAC, 50/60Hz for 1 minute • Bounce Time: 5ms maximum • Life Expectancy: 3,000,000 operations minimum **LED:** • VF: 2.0VDC • IF: 20mA • VR: 5VDC

Fig. 1

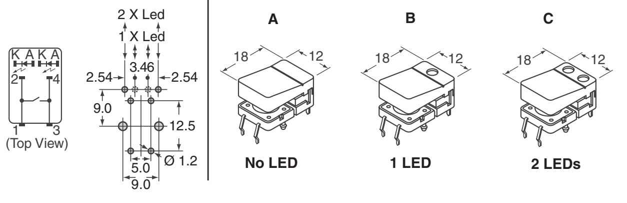

Fig.	Color of Hinged Button	Color of LED	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1A	Light Gray	—	SW819-ND	1.61	1.45	1.29	B3J-1000
	Black	—	SW820-ND	1.61	1.45	1.29	B3J-1100
	Orange	—	SW2314-ND	1.61	1.45	1.29	B3J-1200
	Yellow	—	SW2315-ND	1.61	1.45	1.29	B3J-1300
	Blue	—	SW2316-ND	1.61	1.45	1.29	B3J-1400
1B	Light Gray	Red	SW821-ND	2.87	2.58	2.30	B3J-2000
	Black	Red	SW822-ND	2.87	2.58	2.30	B3J-2100
	Light Gray	Green	SW823-ND	2.87	2.58	2.30	B3J-4000
	Black	Green	SW824-ND	2.87	2.58	2.30	B3J-4100
1C	Light Gray	Red/Green	SW825-ND	4.04	3.64	3.24	B3J-6000
	Black	Red/Green	SW826-ND	4.04	3.64	3.24	B3J-6100

D2A Series – Pushbutton Switches

Ultra subminiature detection switch with pushbutton action.

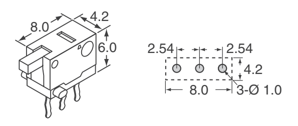

Features:
• Compact (8 x 6 x 4.2mm (W x H x D)) • Light weight (approximately 0.3g) • 3mm long stroke • Built-in slide mechanism for selecting shorting or non-shorting timing of the switch • Switch's small size makes it ideal for household appliances, audio equipment, office equipment, communications equipment, etc.

Characteristics: • Contact Rating: .1A @ 30VDC • Operating Frequency: Mechanical: 200 operations per minute; Electrical: 30 operations per minute • Dielectric Strength: 250VAC, 50/60Hz for 1 minute • Ambient Temperature: Operating: -10°C ~ 70°C

Operating Force (gf) Maximum	Switching Timing	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
100	Non-shorting	SW831-ND	1.30	1.18	1.05	D2A-1110
100	Shorting	SW832-ND	1.31	1.19	1.06	D2A-2110
50	Non-shorting	SW833-ND	1.31	1.19	1.06	D2A-1120
50	Shorting	SW834-ND	1.31	1.19	1.06	D2A-2120

D3D Series — Miniature Door Switches

Omron's Mini Door Switch has a unique mechanism allowing switching of micro loads. Choose from plunger or lever actuators, both having a low operating force of 204g maximum. Uses JST's HL connectors. **Features**: • Disconnectable crimp connector for easier wiring • High contact reliability ensured with gold crossbar contacts • Low noise operation • Operating Temperature: -30°C ~ 60°C • Contact Resistance: 100mΩ maximum • UL, CSA, VDE approved

Fig. 1

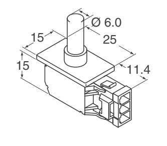

Fig. 2

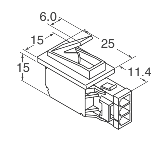

Fig.	Contact Style	Actuator Type	Operating Force g. Maximum	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	SPDT	Plunger	204	SW745-ND	1.73	1.56	1.38	D3D-111
	SPST-NC	Plunger	204	SW746-ND	1.51	1.36	1.21	D3D-121
	SPST-NO	Plunger	204	SW747-ND	1.51	1.36	1.21	D3D-131
2	SPDT	Lever	204	SW748-ND	1.83	1.65	1.47	D3D-211
	SPST-NC	Lever	204	SW749-ND	1.61	1.45	1.29	D3D-221
	SPST-NO	Lever	204	SW750-ND	1.61	1.45	1.29	D3D-231

JST

Description	Digi-Key Part No.	Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 6,000	JST Part No.
Connector Housing, 3-Pos. for D3D Switch	455-1562-ND	1.34	11.13	44.51	—	—	HLP-03V
Contacts for Connector Housing, 18-22 AWG	455-1563-1-ND	.48	4.02	16.07	455-1563-2-ND	24.11/M	SSF-21T-P1.4

OMRON D2D Series — Door Interlock Switches

Features: • Offers the minimum contact gap of 3mm required for power switches as standard equipment • Safety considerations include a double return spring and direct drive positive contact opening feature • Conforms to Class II of VDE Insulation • Pull-on lock model for easy maintenance **Specifications:** • Rated voltage: 125VAC = 16NO; 250VAC = 16NO; 380VAC = 16NO • Inrush Current: NC = 30A max.; NO = 30A max. • Operating Frequency: *Mechanical:* 300 operations per minute; *Electrical:* 60 operations per minute • Operating Temperature: -25°C ~ 85°C • Mechanical Service Life: 10,000,000 operations per minute

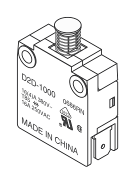

Contact Form	Mounting Method	Type	Resistive Load (A)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
SPDT-NO-NC	Screw	Standard	16	SW980-ND	5.64	5.08	4.51	D2D-1000
SPST-NC	Screw	Standard	16	SW981-ND	5.04	4.54	4.03	D2D-1002
SPDT-NO-NC	Panel snap-fit	Standard	16	SW982-ND	6.29	5.67	5.04	D2D-1100
SPDT-NO-NC	Screw	Pull-on lock	10	SW983-ND	6.44	5.80	5.16	D2D-2000
SPDT-NO-NC	Panel snap-fit	Pull-on lock	10	SW984-ND	6.50	5.85	5.20	D2D-2100
DPST-NO	Panel snap-fit	Standard	16	SW985-ND	8.14	7.33	6.51	D2D-3104

OMRON D3M Production Wired Snap Switches

Easy wiring snap switch for general purpose snap switch applications. Contact current of .1A, RoHS Compliant and external levers, makes this switch an easy production type switch. Mating connector uses JST's XA connector: XAP-02V-1 (455-1903-ND)

Specifications: • Operating Frequency: Mechanical: 400 operations/minute maximum **Electrical:** 60 operations/minute maximum **• Life Expectancy: Mechanical:** 500,000 operations **Electrical:** 200,000 operations **• Operating Temperature:** -25°C ~ 85°C

Fig.	Contact Style	Contact Rating	Dimension "X" Inch (mm)	Actuation Force	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	SPST-NC	.1A	—	153gf	SW877-ND	1.98	1.79	1.59	D3M-01
	SPST-NO	.1A		153gf	SW878-ND	2.38	2.14	1.90	D3M-01-3
2A	SPST-NC	.1A	.72" (18.2)	51gf	SW879-ND	2.09	1.89	1.68	D3M-01K1
	SPST-NO	.1A		51gf	SW880-ND	1.94	1.75	1.55	D3M-01K1-3
2B	SPST-NC	.1A	.72" (18.2)	102gf	SW885-ND	2.09	1.89	1.68	D3M-01L1
	SPST-NO	.1A		102gf	SW886-ND	1.96	1.77	1.57	D3M-01L1-3
3A	SPST-NC	.1A	.70" (17.8)	51gf	SW881-ND	2.95	2.66	2.36	D3M-01K2
	SPST-NO	.1A		51gf	SW882-ND	2.54	2.29	2.04	D3M-01K2-3
3B	SPST-NC	.1A	.70" (17.8)	102gf	SW887-ND	2.95	2.66	2.36	D3M-01L2
	SPST-NO	.1A		102gf	SW888-ND	2.40	2.16	1.92	D3M-01L2-3
4A	SPST-NC	.1A	.78" (19.2)	51gf	SW883-ND	2.09	1.89	1.68	D3M-01K3
	SPST-NO	.1A		51gf	SW884-ND	1.96	1.77	1.57	D3M-01K3-3
4B	SPST-NC	.1A	.78" (19.2)	102gf	SW889-ND	2.09	1.89	1.68	D3M-01L3
	SPST-NO	.1A		102gf	SW890-ND	1.96	1.77	1.57	D3M-01L3-3

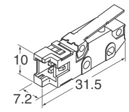

Fig. 1

Fig. 2

Fig. 3

Fig. 4

JST

Description	Digi-Key Part No.	Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 8,000	JST Part No.
Connector Housing, 2-Pos. for D3M Switch	455-1903-ND	.57	4.72	18.89	—	—	XAP-02V-1
Contacts for Connector Housing, 28-22AWG	455-1904-1-ND	.23	1.88	7.53	455-1904-2-ND	11.30/M	SXA-001T-P0.6

OMRON Basic Switches

Omron's "Z" Series switches feature 15A contacts which directly switches such loads as motors, halogen lamps and solenoids. **Omron's "A" Series** has the same body yet switches 20A loads with large inrush currents. All switches feature screw terminal connections and are UL listed CSA certified. Both series are momentary action, SPDT versions. **Omron's "TZ" Series** incorporate a ceramic body, cobalt-alloy spring and special-alloy contact, thus ensuring high contact reliability at high ambient temperature. Smoothly operates at an ambient temperature of 400°C. Operates from -65°C ~ 400°C

Fig.	Operating Force (max.)	Switch Current (A)	Actuator Type	Actuator Length (mm)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
			Snap Action Switches						
1	350g	15	Pin Plunger	—	SW190-ND	6.85	6.17	5.48	Z15G-B
2	350g	15	Spring Plunger	—	SW191-ND	8.43	7.59	6.74	Z15GD-B
2	350g	15	Short Spring Plunger	—	SW1004-ND	11.51	10.36	9.21	Z-15GD55-B
3	350g	15	Panel Plunger	—	SW192-ND	11.50	10.35	9.20	Z15GQ-B
2	550g	15	Slim Spring Plunger	—	SW892-ND	9.10	8.19	7.28	Z15GS-B
4	350g	15	Panel Roller	—	SW193-ND	13.58	12.22	10.86	Z15GQ21-B
5	350g	15	Panel Roller	—	SW194-ND	13.58	12.22	10.86	Z15GQ22-B
6	70g	15	Lever	63.50	SW195-ND	9.20	8.28	7.36	Z15GW-B
7	100g	15	Long Roller Lever	48.49	SW196-ND	9.20	8.28	7.36	Z15GW2-B
8	160g	15	Short Roller Lever	26.59	SW197-ND	8.60	7.74	6.88	Z15GW22-B
8	200g	15	Short Roller Lever	26.59	SW893-ND	13.35	12.02	10.68	Z15GW2255-B
6	6g	15	Low Force Lever	63.50	SW198-ND	9.50	8.55	7.60	Z15HW24-B7-K
1	625g	20	Pin Plunger	—	SW230-ND	9.28	8.35	7.42	A20G-B7-K
6	70g	20	Lever	63.50	SW231-ND	9.33	8.40	7.46	A20GV-B7-K
7	90g	20	Long Roller Lever	48.49	SW232-ND	9.33	8.40	7.46	A20GV2-B7-K
3	625g	20	Panel Plunger	—	SW233-ND	14.10	12.69	11.28	A20GQ-B7-K
8	160g	20	Short Roller Lever	26.59	SW234-ND	10.03	9.03	8.02	A20GV22-B7-K
Phenolic Terminal Cover for A/Z Series					SW235-ND	.88	.79	.70	AP-B
Terminal Cover with Strain Relief for A/Z Series					SW236-ND	4.53	4.08	3.62	AP-Z
			High Temperature Basic Switches						
1	500g	1	Pin Plunger	—	SW759-ND	175.10	156.68	138.24	TZ-1G
7	130g	1	Long Roller Lever	48.49	SW761-ND	287.76	257.47	227.18	TZ-1GV2
8	240g	1	Short Roller Lever	26.59	SW762-ND	280.57	251.04	221.51	TZ-1GV22
			Industrial Sealed (IP67) Basic Switches						
7	1.96N	10	Long Roller Lever	—	Z2726-ND	18.12	16.78	15.66	D4MC-2000
8	2.94N	10	Short Roller Lever	—	Z2727-ND	16.82	15.57	14.54	D4MC-2020
3	5.88N	10	Panel Plunger	—	Z2728-ND	21.77	20.16	18.82	D4MC-5000
5	5.88N	10	Panel Roller Plunger	—	Z2729-ND	22.77	21.09	19.69	D4MC-5020
4	5.88N	10	Panel Cross Roller Plunger	—	Z2730-ND	22.77	21.09	19.69	D4MC-5040

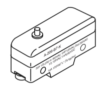

Snap Action Switches and High Temperature Basic Switches

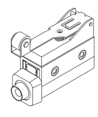

Industrial Sealed (IP67) Basic Switches (Hinge Roller Lever version shown)

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5
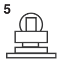

Fig. 6

Fig. 7

Fig. 8
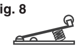

D4C Industrial Sealed Limit Switches

Omron's D4C series limit switches are industrial enclosed limit switches with rugged diecast housing, triple sealed construction and prewired 10' cable. Perfect for harsh environments and indoor/outdoor uses where small size is a consideration.

Fig.	Dimension A (mm)	Operating Force (max.)	Switch Current (A)	Actuator Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	54.2	1200g	5	Pin Plunger	Z1055-ND	54.66	50.61	47.24	D4C-1601
2	67.0	1200g	5	Roller Plunger	Z1056-ND	54.66	50.61	47.24	D4C-1602
2	67.0	1200g	5	Cross Roller Plunger	Z2719-ND	60.31	55.85	52.13	D4C-1603
3	—	580g	5	Roller Lever	Z1057-ND	66.91	61.95	57.82	D4C-1620
1	75.7	1800g	5	Sealed Pin Plunger	Z2720-ND	61.31	56.78	52.99	D4C-1631
2	85.1	1800g	5	Sealed Roller Plunger	Z2721-ND	61.31	56.78	56.78	D4C-1632
2	85.1	1800g	5	Sealed Cross Roller Plunger	Z2722-ND	61.31	56.78	52.99	D4C-1633
4	—	150g	5	Nylon Plastic Rod	Z2723-ND	60.31	55.85	52.13	D4C-1650

Fig. 1
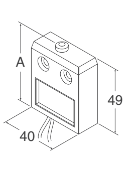

Fig. 2
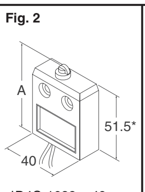

*D4C-1632 = 49mm
D4C-1633 = 49mm

Fig. 3
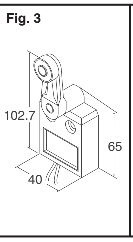

Fig. 4
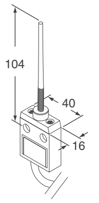

WL Robust Limit Switches

Features: • Meets EN/IEC standards (only switches with ground terminals and prewired connectors with DC specifications) • Long Life Models for High Frequency applications • DPDB Operation: the double pole, double-break structure ensures circuit breaking • Waterproof to IP67 • Operation Indicators for Easier Daily Inspections (LD types only)

Fig.	Operating Force (N)	Switch Current (A)	Actuator Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	13.34	10	Adjustable Roller Lever	Z2749-ND	71.58	66.28	61.86	WLCA12-TS
1	13.34	10	90° Adjustable Roller Lever	Z2748-ND	71.58	66.28	61.86	WLCA12-2-TS
2	13.34	10	Roller Lever	Z2751-ND	61.31	56.78	52.99	WLCA2-TS
2	8.83	10	90° Roller Lever	Z2750-ND	65.08	60.26	56.24	WLCA2-2-TS
3	1.39	10	Adjustable Rod Lever	Z2752-ND	66.57	61.65	57.54	WLCL-TS
—	26.67	10	Top Plunger	Z2753-ND	61.31	56.78	52.99	WLD-TS
—	26.67	10	Top-Roller Plunger	Z2754-ND	67.57	62.57	58.40	WLD2-TS
2	9.81	10	High Sensitivity Roller Lever	Z2755-ND	102.12	94.56	88.26	WLG2-LD
4	1.47	10	6.5mm Diameter Coil Spring	Z2757-ND	71.58	66.28	61.86	WLNJ-TS
4	1.47	10	8.0mm Diameter Coil Spring (Resin Rod)	Z2756-ND	68.57	63.50	59.27	WLNJ-2-TS

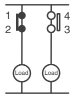

Schematic

Fig. 1
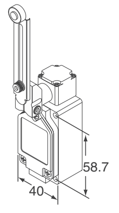

Adjustable Roller

Fig. 2
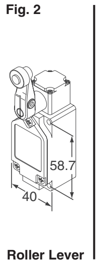

Roller Lever

Fig. 3
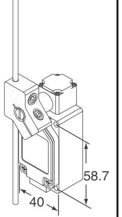

Adjustable Rod

Fig. 4
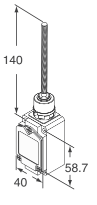

Resin Rod

OMRON

ZE Industrial Sealed High Capacity Switches

Long service life, rugged die cast housing sealed industrial switches with a high capacity contact (15A). NEMA sealed for extremely long service life (SPDT 15A @ 125VAC).

Fig.	Operating Force (max.)	Switch Current (A)	Actuator Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	640g	15	Roller Arm Lever	Z1058-ND	41.50	38.43	35.87	ZE-NA2-2S
2	150g	15	Coil Spring	Z1059-ND	42.41	39.27	36.66	ZE-NJ-2S
3	800g	15	Plunger	Z1060-ND	32.21	29.82	27.84	ZE-N-2S
4	500g	15	Roller Plunger	Z1061-ND	43.09	39.90	37.24	ZE-N22-2S

Fig. 1

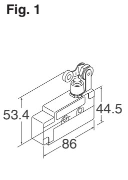

Fig. 2

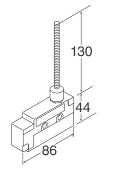

Fig. 3

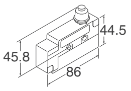

Fig. 4

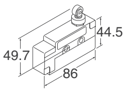

Safety-Door Switch

Features: • Special operation key that positively pulls apart contacts, contributing to machine safety • Degree of protection: IP67 • Conforms to the following EC Directives: Machinery Directive, Low Voltage Directive, EN50041, EN1088 • Operating Temperature: -40 ~ 80°C • Conduit: 1/2-14NPT • Life Expectancy: Mechanical - 1,000,000 Operations minimum • Conventional Enclosed Thermal Current: 20 A

Fig.	Dimensions (mm) A	B	C	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	111.5	40	31.4	Safety Switch DP-N/C (2NC) 10A Sealed	Z2433-ND	53.75	49.77	46.46	D4BS-3AFS
				Safety Switch SPDT (1NC/1NO) 10A Sealed	Z2434-ND	53.75	49.77	46.46	D4BS-35FS
2	—	—	—	Horizontal Mount Key for D4BS Switch	Z2430-ND	6.25	5.79	5.41	D4BS-K1
				Vertical Mount Key for D4BS Switch	Z2431-ND	7.16	6.63	6.19	D4BS-K2
				Adjustable Horizontal Mount Key for D4BS Switch	Z2432-ND	22.23	20.58	19.21	D4BS-K3
1	96	31	30.2	Safety Switch SPDT (1NC/1NO) 3A Sealed	Z2731-ND	47.63	44.10	41.16	D4NS-3AF
				Safety Switch DP-N/C (2NC) 3A Sealed	Z2732-ND	47.63	44.10	41.16	D4NS-3BF
				Safety Switch 3P-N/C (2NC/1NO) 3A Sealed	Z2733-ND	47.63	44.10	41.16	D4NS-3CF
				Safety Switch 3P-N/C (3NC) 3A Sealed	Z2734-ND	44.71	41.40	38.64	D4NS-3DF
3	—	—	—	Horizontal Mount Key for D4NS Switch	Z2724-ND	18.66	17.28	16.13	D4DS-K3
				Horizontal/Vertical Mount Key for D4NS Switch	Z2725-ND	22.36	20.70	19.32	D4DS-K5

Fig. 1

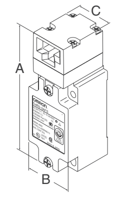

Fig. 2

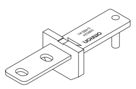

Fig. 3

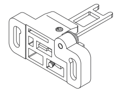

Horizontal/Vertical Type Shown

Honeywell
Sensing and Control

MICRO SWITCH™ Limit Switches

Honeywell's limit switches combine product selection, quality and reliability to give you the right product for your application, every time. Honeywell's extensive product line offers features and benefits at a competitive price to solve your switching needs.

Dim. in inches

Fig. 1

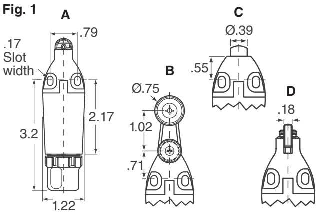

Fig. 2 ***NEW!***

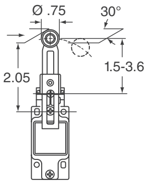

Fig. 3

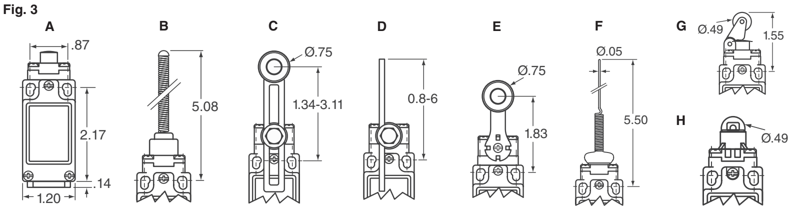

Fig. 4

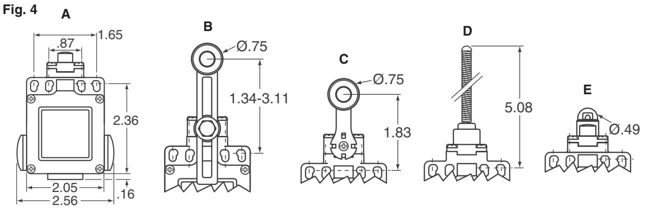

Fig. 5

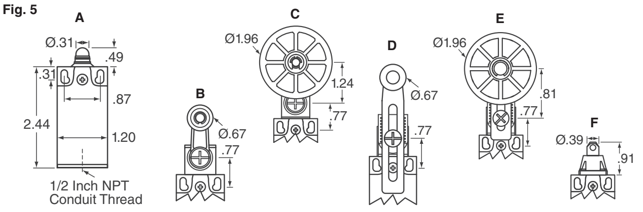

Fig. 6 ***NEW!***

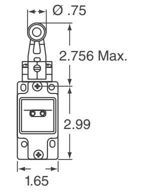

Fig. 7 ***NEW!***

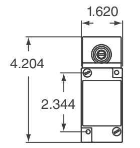

Fig. 8 ***NEW!***

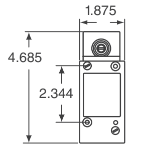

Fig. 9 ***NEW!***

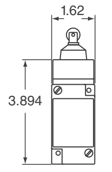

Fig. 10 ***NEW!***

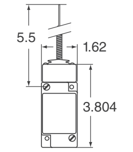

Fig. 11 ***NEW!***

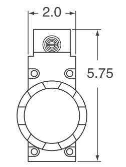

Fig. 12

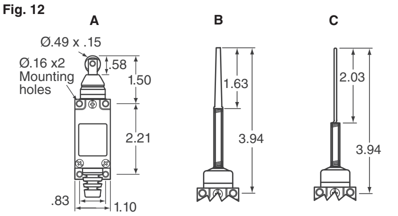

Fig.	Current Rating (A)	Circuit	Actuator Type	Digi-Key Part No.	Price Each 1	10	100	Honeywell Sensing Part No.
1A	10	SPDT	Roller Plunger	480-2701-ND	20.57	16.77	14.40	EVN2000C
1B	10	SPDT	Side Rotary with Roller	480-2699-ND	23.38	19.06	16.37	EVN2000A
1C	10	SPDT	Top Plunger	480-2700-ND	20.57	16.77	14.40	EVN2000B
1D	10	SPDT	Roller Arm	480-2702-ND	20.57	16.77	14.40	EVN2000D
2	10	SPDT	Side Rotary - No Lever	480-2924-ND ***NEW!***	60.64	50.54	45.48	GLAA01A
	10	SPDT	Side Rotary, Adjustable Lever with Plastic Roller	480-2925-ND ***NEW!***	72.91	62.50	55.21	GLAA01A2A
3A	10	SPDT	Top Pin Plunger	480-2719-ND	38.56	31.46	27.91	GLCA01B
	10	SPDT	Top Pin Plunger	480-2728-ND	26.18	21.34	18.33	GLDA01B
3B	10	SPDT	Wobble Coil Spring	480-2712-ND	41.17	33.59	29.80	GLCA01E7B
	10	SPDT	Wobble Coil Spring	480-2721-ND	33.67	27.63	24.18	GLDA01E7B
3C	10	SPDT	Side Rotary, Adjustable Lever Metal Roller	480-2713-ND	40.65	33.17	29.42	GLCA01A2B
	10	SPDT	Side Rotary, Adjustable Lever Metal Roller	480-2722-ND	32.50	26.67	23.34	GLDA01A2B
	10	SPDT	Side Rotary, Adjustable Lever Plastic Roller	480-2714-ND	40.65	33.17	29.42	GLCA01A2A
	10	SPDT	Side Rotary, Adjustable Lever Plastic Roller	480-2723-ND	32.50	26.67	23.34	GLDA01A2A
3D	10	SPDT	Side Rotary with Metal Rod, Adjustable Lever	480-2715-ND	40.65	33.17	29.42	GLCA01A4J
	10	SPDT	Side Rotary with Metal Rod, Adjustable Lever	480-2724-ND	32.50	26.67	23.34	GLDA01A4J
3E	10	SPDT	Side Rotary, Fixed Lever Metal Roller	480-2716-ND	36.89	30.28	26.49	GLCA01A1B
	10	SPDT	Side Rotary, Fixed Lever Metal Roller	480-2725-ND	28.93	23.58	20.26	GLDA01A1B
	10	SPDT	Side Rotary, Fixed Lever Plastic Roller	480-2717-ND	36.89	30.28	26.49	GLCA01A1A
	10	SPDT	Side Rotary, Fixed Lever Plastic Roller	480-2726-ND	23.98	19.55	16.79	GLDA01A1A

▲ With 4-pin DC Micro Connector § With 4-pin M12 Connector

(Continued)

Dim. in inches

Fig. 13 ***NEW!***

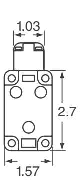

Fig. 14 ***NEW!***

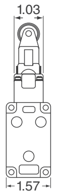

Fig. 15 ***NEW!***

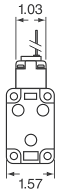

Fig. 16 ***NEW!***

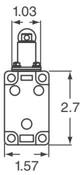

Fig. 17 ***NEW!***

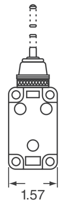

Fig. 18 ***NEW!***

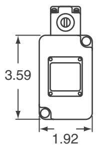

Fig. 19 ***NEW!***

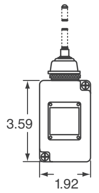

Fig. 20 ***NEW!***

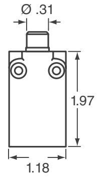

Fig. 21 ***NEW!***

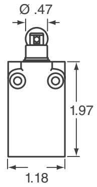

Fig. 22 ***NEW!***

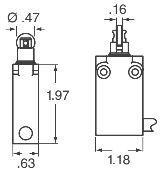

Fig. 23 ***NEW!***

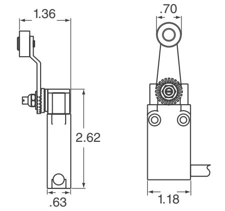

Fig. 24

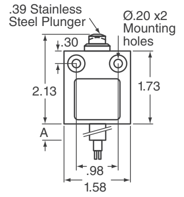

Mfg No. Suffix	Dim. A (in.)
-3	36
-6	72
-9	108

Fig. 25

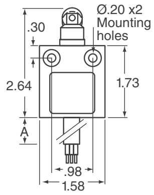

Mfg No. Suffix	Dim. A (in.)
-3	36
-6	72
-9	108

Fig. 26

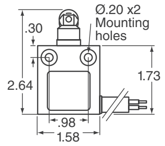

Fig. 27

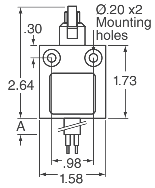

Mfg No. Suffix	Dim. A (in.)
-3	36
-6	72
-9	108

Fig. 28

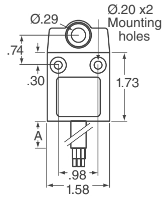

Mfg No. Suffix	Dim. A (in.)
-3	36
-6	72

Fig. 29

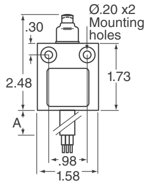

Mfg No. Suffix	Dim. A (in.)
-3	36
-6	72
-9	108

Fig. 30

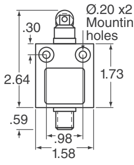

Fig.	Current Rating (A)	Circuit	Actuator Type	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Honeywell Sensing Part No.
3F	10	SPDT	Wobble Cat Whisker	480-2720-ND	41.17	33.59	29.80	GLCA01K8A
3G	10	SPDT	Top Roller Arm	480-2718-ND	47.03	38.37	34.04	GLCA01D
	10	SPDT	Top Roller Arm	480-2727-ND	34.21	28.07	24.57	GLDA01D
3H	10	SPDT	Top Roller Plunger	480-2729-ND	31.42	25.79	22.57	GLDA01C
4A	10	SPDT	Top Plunger	480-2735-ND	46.81	38.71	34.16	GLEA01B
	10	DPDT	Top Plunger	480-2739-ND	62.62	52.19	46.97	GLEA24B
4B	10	SPDT	Side Rotary, Adjustable Lever Metal Roller	480-2730-ND	48.33	39.98	35.27	GLEA01A2B
	10	SPDT	Side Rotary, Adjustable Lever Plastic Roller	480-2731-ND	48.33	39.98	35.27	GLEA01A2A
	10	DPDT	Side Rotary, Adjustable Lever Plastic Roller	480-2737-ND	64.10	53.42	47.19	GLEA24A2A
4C	10	SPDT	Side Rotary, Fixed Lever Metal Roller	480-2732-ND	44.94	36.66	32.52	GLEA01A1B
	10	SPDT	Side Rotary, Fixed Lever Plastic Roller	480-2733-ND	44.94	36.66	32.52	GLEA01A1A
	10	DPDT	Side Rotary, Fixed Lever Metal Roller	480-2738-ND	59.65	49.71	44.74	GLEA24A1B
4D	10	SPDT	Wobble Coil Spring	480-2734-ND	49.35	40.82	36.02	GLEA01E7B
4E	10	SPDT	Top Roller Plunger	480-2736-ND	52.15	43.13	38.06	GLEA01C
	10	DPDT	Top Roller Plunger	480-2740-ND	67.57	56.31	49.74	GLEA24C
5A	10	SPDT	Top Plunger	480-2707-ND	15.91	12.30	10.49	GLLA01B
5B	10	SPDT	Side Rotary, Fixed Lever Metal Roller	480-2703-ND	17.50	14.17	11.88	GLLA01A1B
5C	10	SPDT	Side Rotary, Fixed Lever Rubber Roller	480-2704-ND	20.02	16.32	14.02	GLLA01A1Y
5D	10	SPDT	Side Rotary, Adjustable Lever Metal Roller	480-2705-ND	18.71	15.15	12.70	GLLA01A2B
5E	10	SPDT	Side Rotary, Adjustable Lever Rubber Roller	480-2706-ND	21.12	17.22	14.79	GLLA01A2Y
5F	10	SPDT	Top Roller Plunger	480-2708-ND	17.12	13.24	11.10	GLLA01C
6	6	SPDT	Side Rotary	480-2926-ND ***NEW!***	11.26	8.66	7.26	GLZ51B
7	10	SPDT	Side Rotary - No Lever	480-2927-ND ***NEW!***	100.62	84.34	75.62	LSA1A
	10	SPDT	Side Rotary - No Lever	480-2929-ND ***NEW!***	100.86	84.54	75.79	LSA3K
	10	SPDT	Side Rotary - No Lever	480-2935-ND ***NEW!***	118.94	99.69	89.38	LSN1A
	10	SPDT	Side Rotary - No Lever	480-2936-ND ***NEW!***	106.57	89.32	80.08	LSP1A
	6	SPDT	Side Rotary - No Lever	480-2937-ND ***NEW!***	140.95	118.16	105.72	LSQ300
	10	SPDT	Side Rotary - No Lever	480-2942-ND ***NEW!***	113.47	95.11	85.27	LSYAB1A
	10	SPDT	Side Rotary - No Lever	480-2943-ND ***NEW!***	101.10	84.74	75.97	LSYAB3K
8	10	DPDT	Side Rotary - No Lever	480-2928-ND ***NEW!***	120.15	102.48	91.88	LSA2B
	10	DPDT	Side Rotary - No Lever	480-2930-ND ***NEW!***	120.15	102.48	91.88	LSA6B
	10	DPDT	Side Rotary - No Lever	480-2931-ND ***NEW!***	120.15	102.48	91.88	LSA7L
	10	DPDT	Side Rotary - No Lever	480-2933-ND ***NEW!***	126.46	107.87	96.71	LSM6D
	10	DPDT	Side Rotary - No Lever	480-2934-ND ***NEW!***	112.99	94.71	84.91	LSM7N
	10	DPDT	Side Rotary - No Lever	480-2944-ND ***NEW!***	132.77	111.30	99.58	LSYAB6B
	10	DPDT	Side Rotary - No Lever	480-2946-ND ***NEW!***	138.61	116.20	103.97	LSYMB6D
9	10	SPDT	Top Roller Plunger	480-2932-ND ***NEW!***	120.15	102.48	91.88	LSD1A
10	10	SPDT	Wobble Coil Spring	480-2945-ND ***NEW!***	122.95	104.88	94.03	LSYKB1A-8C
11	10	SPDT	Side Rotary - No Lever	480-2938-ND ***NEW!***	160.40	138.53	123.95	LSXA3K
	10	SPDT	Side Rotary - No Lever	480-2939-ND ***NEW!***	170.78	146.69	130.97	LSXYAB3K
	10	DPDT	Side Rotary - No Lever	480-2940-ND ***NEW!***	188.49	161.90	144.55	LSXYAB4L
—	—	—	Contact Block for LSX Series	480-2941-ND ***NEW!***	55.19	46.00	41.40	LSXZ3K
12A	5	SPDT-DB	Roller Plunger	480-2709-ND	21.67	17.67	15.17	SZL-VL-H
12B	5	SPDT-DB	Wobble, Plastic Rod	480-2710-ND	21.67	17.67	15.17	SZL-VL-F
12C	5	SPDT-DB	Wobble, Stainless Steel Wire	480-2711-ND	21.67	17.67	15.17	SZL-VL-G
13	10	SPDT	Side Rotary, Fixed Lever with Front Mounted Steel Roller	480-2909-ND ***NEW!***	119.21	101.69	91.17	1LS1
	10	SPDT	Side Rotary - No Lever	480-2914-ND ***NEW!***	117.99	98.89	88.66	1LS9
	10	SPDT	Side Rotary, Fixed Lever with Front Mounted Steel Roller	480-2912-ND ***NEW!***	127.16	108.46	97.24	1LS19
14	10	SPDT	Side Rotary, Adjustable Lever with Front Mounted Nylon Roller	480-2913-ND ***NEW!***	130.90	109.73	98.18	1LS3
15	10	SPDT	Side Rotary, Adjustable Lever Rod	480-2910-ND ***NEW!***	127.16	108.46	97.24	1LS10
	10	SPDT	Side Rotary, Adjustable Lever Rod	480-2911-ND ***NEW!***	127.16	108.46	97.24	1LS10-L
16	10	SPDT	Top Roller Plunger	480-2917-ND ***NEW!***	128.10	107.38	96.08	5LS1

▲ With 4-pin DC Micro Connector § With 4-pin M12 Connector

(Continued)

MICRO SWITCH™ Limit Switches *(Cont.)*

Dim. in inches

Fig. 31

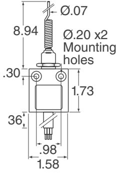

Fig. 32

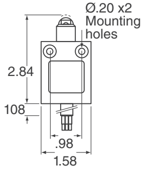

Fig. 33

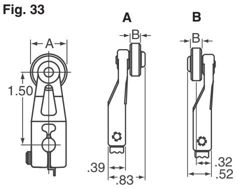

Fig. 34

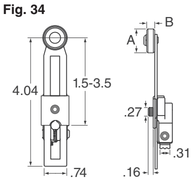

Fig. 35 ***NEW!***

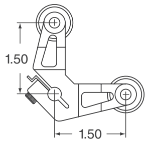

Fig. 36 ***NEW!***

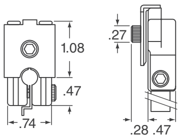

Fig. 37

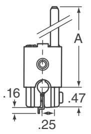

Fig. 38

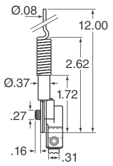

Fig. 39

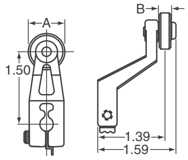

Fig. 40

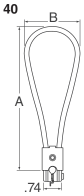

Fig. 41

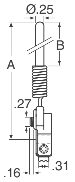

Fig. 42 ***NEW!***

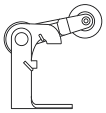

Fig. 43 ***NEW!***

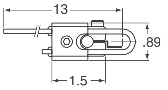

Fig. 44 ***NEW!***

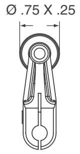

Fig. 45 ***NEW!***

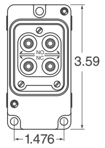

	Current		Actuator	Digi-Key		Price Each		Honeywell Sensing
Fig.	**Rating (A)**	**Circuit**	**Type**	**Part No.**	**1**	**10**	**100**	**Part No.**
17	10	SPDT	Wobble Flexible Spring	480-2922-ND ***NEW!***	119.68	102.08	91.52	8LS1
	10	SPDT	Wobble Spring Rod	480-2923-ND ***NEW!***	119.68	102.08	91.52	8LS3
18	10	SPDT	Side Rotary, Fixed Lever with Front Mounted Steel Roller	480-2915-ND ***NEW!***	132.54	111.10	99.41	201LS1
19	10	SPDT	Wobble Flexible Spring	480-2916-ND ***NEW!***	117.99	98.89	88.66	208LS1
20	10	DPST	Top Pin Plunger	480-2894-ND ***NEW!***	35.53	28.99	25.72	91MCE1-P1
	10	DPST	Top Pin Plunger	480-2895-ND ***NEW!***	35.53	28.99	25.72	91MCE1-S1
21	10	DPST	Roller Plunger	480-2896-ND ***NEW!***	37.62	30.69	27.23	91MCE2-P1
	10	DPST	Roller Plunger	480-2897-ND ***NEW!***	37.62	30.69	27.23	91MCE2-S1
	10	DPST	Roller Plunger	480-2898-ND§ ***NEW!***	37.62	30.69	27.23	91MCE2-SQ
22	10	DPST	Cross Roller Plunger	480-2899-ND ***NEW!***	37.62	30.69	27.23	91MCE3-P1
	10	DPST	Cross Roller Plunger	480-2900-ND ***NEW!***	37.62	30.69	27.23	91MCE3-S1
23	10	DPST	Side Rotary with Plastic Lever and Metal Roller	480-2901-ND ***NEW!***	38.67	31.55	27.99	91MCE16-P1
	10	DPST	Side Rotary with Plastic Lever and Metal Roller	480-2902-ND ***NEW!***	38.67	31.55	27.99	91MCE16-S1
24	5	SPDT	Top Plunger	480-2741-ND	57.67	48.06	43.26	914CE1-3
	5	SPDT	Top Plunger	480-2742-ND	63.11	52.60	46.46	914CE1-6
	5	SPDT	Top Plunger	480-2743-ND	68.31	56.93	50.29	914CE1-9
25	5	SPDT	Roller Plunger	480-2744-ND	66.58	55.49	49.01	914CE2-3
	5	SPDT	Roller Plunger	480-2745-ND	70.02	60.02	53.02	914CE2-6
	5	SPDT	Roller Plunger	480-2746-ND	75.08	64.35	56.85	914CE2-9
26	5	SPDT	Roller Plunger	480-2756-ND	68.31	56.93	50.29	914CE2-3A
27	5	SPDT	Roller Plunger	480-2747-ND	66.58	55.49	49.01	914CE3-3
	5	SPDT	Roller Plunger	480-2748-ND	70.02	60.02	53.02	914CE3-6
	5	SPDT	Roller Plunger	480-2749-ND	75.08	64.35	56.85	914CE3-9
28	5	SPDT	Side Rotary	480-2750-ND	78.69	67.45	59.58	914CE16-3
	5	SPDT	Side Rotary	480-2751-ND	83.74	71.78	63.41	914CE16-6
29	5	SPDT	Top Plunger with Boot Seal	480-2752-ND	69.30	57.75	51.02	914CE18-3
	5	SPDT	Top Plunger with Boot Seal	480-2753-ND	72.67	62.29	55.03	914CE18-6
	5	SPDT	Top Plunger with Boot Seal	480-2754-ND	77.72	66.62	58.85	914CE18-9
30	5	SPDT	Roller Plunger	480-2757-ND▲	70.79	58.99	52.11	914CE2-Q
31	5	SPDT	Wobble Spring Wire	480-2755-ND	82.05	70.34	62.13	914CE20-3
32	10	SPDT-DB	Roller Plunger	480-2758-ND	93.96	78.76	70.61	924CE2-S9

▲ With 4-pin DC Micro Connector   § With 4-pin M12 Connector

I

Levers for Switches

		Roller	Dimensions (Inch)		Digi-Key		Price Each		Honeywell Sensing
Fig.	**Material**	**Mounting**	**A**	**B**	**Part No.**	**1**	**10**	**100**	**Part No.**
33A	Nylon	Front	.75	.25	480-2759-ND	12.50	9.61	8.06	LSZ51A
	Steel	Front	.75	.25	480-2760-ND	12.50	9.61	8.06	LSZ51B
33B	Nylon	Back	.75	.25	480-2761-ND	12.50	9.61	8.06	LSZ51C
	Steel	Back	.75	.25	480-2762-ND	12.50	9.61	8.06	LSZ51D
34	Stainless Steel	—	—	—	480-2952-ND ***NEW!***	15.36	12.09	10.13	LSZ52
	Nylon	Back	.75	.25	480-2763-ND	18.13	14.68	12.31	LSZ52A
	Steel	Back	.75	.25	480-2764-ND	18.13	14.68	12.31	LSZ52B
	Nylon	Front	.75	.25	480-2765-ND	18.13	14.68	12.31	LSZ52C
	Steel	Front	.75	.25	480-2766-ND	18.13	14.68	12.31	LSZ52D
	Nylon	Front	1.0	.50	480-2767-ND	24.75	20.18	17.33	LSZ52J
	Nylon	Front	1.5	.25	480-2768-ND	24.75	20.18	17.33	LSZ52K
	Nylon	Front	.75	.50	480-2953-ND ***NEW!***	18.13	14.68	12.31	LSZ52N
35	Steel	Front	—	—	480-2954-ND ***NEW!***	18.13	14.68	12.31	LSZ53D
36	Stainless Steel	—	—	—	480-2955-ND ***NEW!***	15.36	12.09	10.13	LSZ54
37	Aluminum	—	5.5	—	480-2769-ND	18.13	14.68	12.31	LSZ54M
	Stainless Steel	—	13.0	—	480-2770-ND	18.13	14.68	12.31	LSZ54N
38	Spring Wire	—	—	—	480-2771-ND	18.13	14.68	12.31	LSZ54R
39	Nylon	Front	.75	.25	480-2772-ND	18.13	14.68	12.31	LSZ55C
40	Nylatron	—	6.0	2.3	480-2773-ND	18.13	14.68	12.31	LSZ61
41	Delrin Rod	—	12.0	9.8	480-2774-ND	24.75	20.18	17.33	LSZ68

NEW! Accessories for Switches

		Digi-Key		Price Each		Honeywell Sensing
Fig.	**Description**	**Part No.**	**1**	**10**	**100**	**Part No.**
42	Lever and Seal Boot Limit Switch	480-2919-ND	38.61	31.68	27.72	6PA2
43	Stainless Steel Adjustable Rod	480-2921-ND	35.29	28.96	25.34	6PA63
44	Fixed Lever Front Steel Roller	480-2918-ND	17.18	13.28	11.13	6PA121
—	Seal Boot for Limit Switch	480-2920-ND	27.23	22.19	19.06	6PA20
	Seal Boot for Limit Switch	480-2907-ND	10.12	7.70	6.60	10PA2
	Switch Limit Operating Head	480-2947-ND	54.70	45.59	41.03	LSZ1A
	Switch Limit Operating Head	480-2948-ND	54.70	45.59	41.03	LSZ1R
	Switch Limit Contact Block	480-2949-ND	47.57	39.35	34.72	LSZ3A
	Switch Limit Plug-in Unit	480-2956-ND	88.49	74.17	66.50	LSZ7A1A
	Receptacle Plug in Single Pole	480-2950-ND	19.64	15.43	13.33	LSZ4001
	Replacement Spring Wire Actuator	480-2951-ND	19.64	15.43	13.33	LSZ4010
45	Terminal Block	480-2908-ND	37.11	30.45	26.65	18PA1

Honeywell
Sensing and Control

MICRO SWITCH™ Basic Switches

Not all basic switches are alike. More than 60 years of experience go into Honeywell's high quality, high reliability switches, so you can count on Honeywell for first time, every time functionality, superior support and service.

Fig. 1

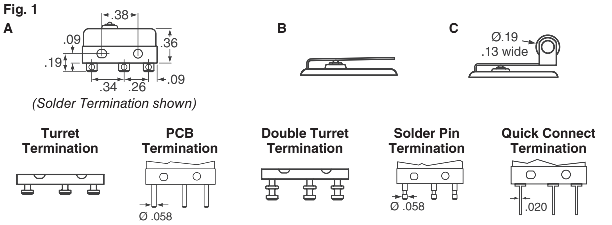

Fig. 2

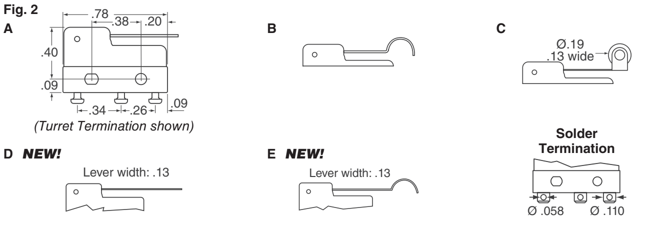

Fig. 3

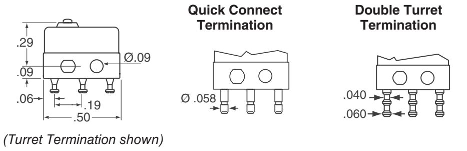
Quick Connect Termination
Double Turret Termination
.29
.09
Ø.09
.06
.19
.50
Ø .058
.040
.060
(Turret Termination shown)

Fig. 4

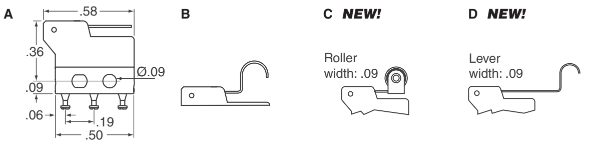

Fig. 5

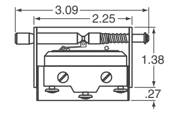

Fig. 6

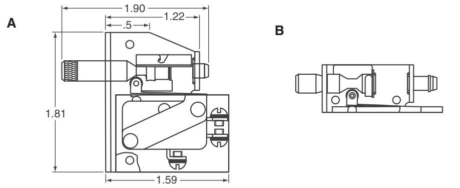

Fig. 7

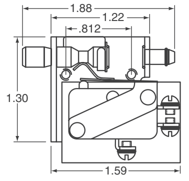

Fig. 8

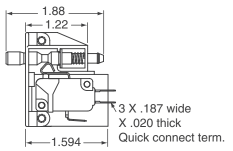

Fig. 9

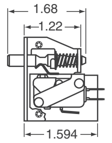

Fig. 10

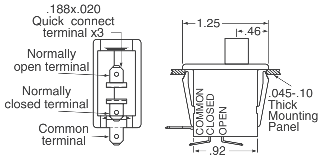

Fig. 11

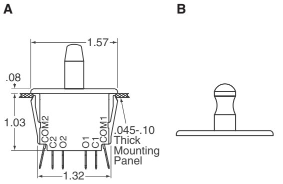

Fig. 12

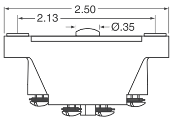

Fig. 13

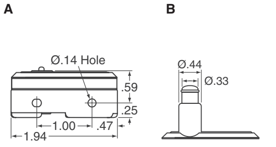

Fig. 14

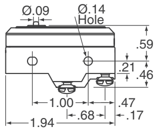

Fig.	Current Rating (A)	Circuit	Actuator Type	Termi-nation	Digi-Key Part No.	Price Each 1	10	100	Honeywell Sensing Part No.
1A	5	SPDT	Plunger	Solder	480-2307-ND	6.63	4.91	4.06	1SM1
	5	SPDT	Plunger	Solder	480-2309-ND	5.59	4.09	3.34	11SM1
	5	SPDT	Plunger	Solder	480-2316-ND	11.72	9.01	7.56	411SM1
	5	SPDT	Plunger	Turret	480-2308-ND	7.93	5.95	4.96	1SM1-T
	5	SPDT	Plunger	Turret	480-2310-ND	5.84	4.27	3.49	11SM1-T
	5	SPDT	Plunger	Turret	480-2312-ND	4.84	3.44	2.82	11SM3-T
	1	SPDT	Plunger	Turret	480-2313-ND	11.17	8.50	7.29	11SM23-T
	5	SPDT	Plunger	Turret	480-2314-ND	9.47	7.11	5.93	11SM401-T
	5	SPDT	Pin Plunger	PCB	480-3010-ND▲	5.03	3.57	2.93	11SM1-H2
	5	SPDT	Plunger	Dbl. Turret	480-2311-ND	5.86	4.29	3.50	11SM1-T2
	5	SPDT	Pin Plunger	Solder	480-3011-ND▲	6.55	4.85	4.01	11SM244
	5	SPDT	Pin Plunger	Turret	480-3012-ND▲	6.55	4.85	4.01	11SM244-T
	5	SPDT	Pin Plunger	Solder Pin	480-3013-ND▲	5.20	3.69	3.03	11SM701-H58
	5	SPDT	Pin Plunger	Dbl. Turret	480-3016-ND▲	7.48	5.54	4.58	21SM284-T2
	11	SPDT	Plunger	Dbl. Turret	480-2315-ND	5.51	4.03	3.29	41SM1-T2
1B	5	SPDT	Straight Lever	Solder	480-2326-ND	6.76	5.01	4.14	111SM1
	5	SPDT	Straight Lever	Turret	480-2327-ND	7.64	5.51	4.59	111SM1-T
1C	5	SPDT	Roller Lever	Solder	480-2328-ND	8.70	6.53	5.44	111SM2
	5	SPDT	Roller Lever	Turret	480-2329-ND	8.11	6.09	5.07	111SM2-T
	1	SPDT	Roller Lever	Turret	480-2330-ND	16.41	12.69	10.82	111SM23-T
	5	SPDT	Roller Lever	QC	480-3009-ND▲	7.10	5.26	4.35	111SM602-H4
2A	5	SPDT	Straight Lever	Turret	480-2317-ND	6.35	4.65	3.79	311SM1-T
	5	SPDT	Straight Lever	Turret	480-2319-ND	6.15	4.50	3.67	311SM2-T
	1	SPDT	Straight Lever	Turret	480-2318-ND	11.40	8.68	7.44	311SM23-T
	5	SPDT	Straight Lever	Turret	480-2320-ND	6.29	4.66	3.85	311SM3-T
	4	SPDT	Straight Lever	Turret	480-2321-ND	6.41	4.69	3.83	311SM703-T
2B	5	SPDT	Simulated Roller	Turret	480-2322-ND	6.32	4.68	3.87	311SM4-T
	5	SPDT	Simulated Roller	Turret	480-2323-ND	5.72	4.19	3.42	311SM5-T
	4	SPDT	Simulated Roller	Turret	480-3020-ND▲	6.11	4.47	3.65	311SM704-T
2C	5	SPDT	Roller Lever	Solder	480-3018-ND▲	6.33	4.69	3.88	311SM6
	5	SPDT	Roller Lever	Turret	480-2324-ND	7.09	5.25	4.34	311SM6-T
	4	SPDT	Roller Lever	Turret	480-2325-ND	6.54	4.84	4.01	311SM706-T
2D	4	SPDT	Straight Lever	Turret	480-3019-ND▲	5.95	4.36	3.55	311SM702-T
2E	4	SPDT	Simulated Roller	Turret	480-3021-ND▲	7.05	5.22	4.32	311SM705-T
3	7	SPDT	Pin Plunger	QC	480-3015-ND▲	10.96	8.35	7.15	1SX1-H58
	7	SPDT	Plunger	Turret	480-2297-ND	11.22	8.54	7.32	1SX1-T

Fig.	Current Rating (A)	Circuit	Actuator Type	Termi-nation	Digi-Key Part No.	Price Each 1	10	100	Honeywell Sensing Part No.
3	7	SPDT	Plunger	Turret	480-2299-ND	11.87	9.13	7.65	1SX48-T
	7	SPDT	Plunger	Turret	480-2298-ND	13.39	10.30	8.63	2SX1-T
	7	SPDT	Plunger	Turret	480-3025-ND▲	13.58	10.69	8.96	4SX36-T
	3	SPDT	Plunger	Turret	480-2296-ND	11.70	9.00	7.54	11SX1-T
	5	SPDT	Plunger	Turret	480-2300-ND	9.83	7.49	6.42	11SX21-T
	1	SPDT	Plunger	Turret	480-2295-ND	16.04	12.40	10.58	12SX1-T
	7	SPDT	Plunger	Turret	480-2301-ND	9.02	6.77	5.64	21SX39-T
	7	SPDT	Pin Plunger	Dbl. Turret	480-3017-ND▲	7.53	5.42	4.52	21SX39-T2
4A	5	SPDT	Straight Lever	Turret	480-2302-ND	11.47	8.83	7.40	311SX1-T
	5	SPDT	Straight Lever	Turret	480-2303-ND	11.41	8.68	7.44	311SX2-T
	5	SPDT	Straight Lever	Turret	480-2304-ND	11.89	9.14	7.67	311SX3-T
4B	5	SPDT	Simulated Roller	Turret	480-2305-ND	10.25	7.80	6.69	311SX4-T
	5	SPDT	Simulated Roller	Turret	480-2306-ND	10.53	8.01	6.87	311SX5-T
	1	SPDT	Simulated Roller	Turret	480-3023-ND▲	17.91	14.51	12.16	313SX4-T
4C	1	SPDT	Roller Lever	Turret	480-3022-ND▲	20.12	15.81	13.66	313SX30-T
4D	1	SPDT	Simulated Roller	Turret	480-3024-ND▲	15.55	12.02	10.26	313SX5-T
5	15	SPDT	Rod	Screw	480-2484-ND	47.34	38.63	34.27	1AC2
6A	15	SPDT	Rod	Screw	480-2483-ND	32.80	26.92	23.55	13AC1
6B	10	SPDT	Rod	Screw	480-2488-ND	36.79	30.19	26.42	2AC59
	15	SPDT	Rod	Screw	480-2489-ND	75.98	65.13	57.53	2AC6
	15	SPDT	Rod	Screw	480-2490-ND	23.14	18.86	16.20	3AC6
7	15	SPDT	Rod	Screw	480-2485-ND	23.60	19.24	16.52	22AC1
	15	SPDT	Rod	Screw	480-2486-ND	23.31	19.00	16.32	22AC2
	15	SPDT	Rod	Screw	480-2487-ND	21.54	17.56	15.08	23AC2
8	5	SPDT	Rod	QC	480-2873-ND	17.46	14.14	11.86	23AC80
	5	SPDT	Rod	QC	480-2875-ND	32.84	26.95	23.58	23AC82
9	5	SPDT	Rod	QC	480-2874-ND	41.98	34.25	30.38	23AC81
10	10	SPDT	Concave Plunger	QC	480-2491-ND	4.25	2.96	2.43	1DM18
	10	SPDT	Convex Plunger	QC	480-2492-ND	7.39	5.47	4.52	1DM21
	10	SPDT	Finger Grip	QC	480-2493-ND	5.59	4.09	3.34	1DM401
11A	10	DPDT	Bullet Nose	QC	480-2494-ND	7.85	5.89	4.91	2DM1
11B	10	DPDT	Finger Grip	QC	480-2495-ND	8.18	6.14	5.12	2DM409
12	15	DPDT-DB	Plunger	Screw	480-2465-ND	29.57	24.27	21.24	3MN1
	15	DPDT-DB	Plunger	Screw	480-2466-ND	48.34	39.98	35.28	3MN6
13A	10	SPDT	Plunger	Solder	480-2416-ND	13.45	10.35	8.67	BZ-R21
	15	SPDT	Plunger	Solder	480-2417-ND	7.75	5.59	4.66	BZ-2R

‡ With Plunger Seal ▲ ***NEW!***

(Continued)

Fig. 15

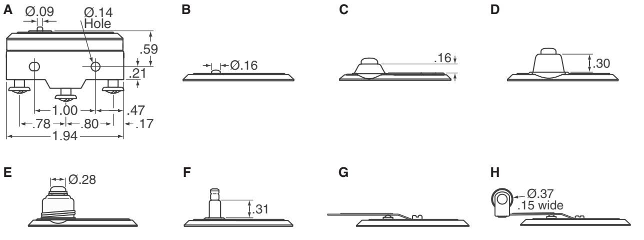

Fig. 16

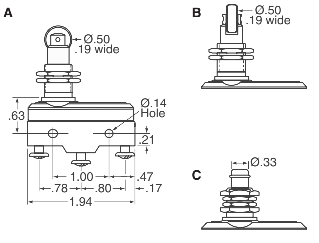

Fig. 17

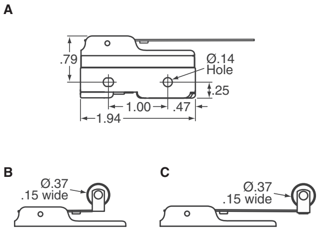

Fig. 18

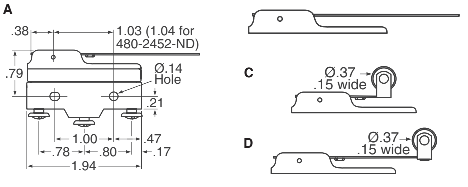

Fig. 19

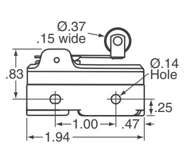

Fig. 20

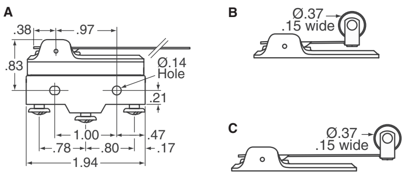

Fig. 21

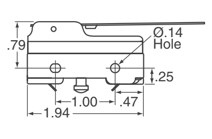

Fig. 22

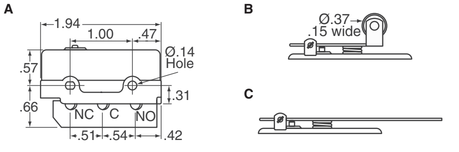

Fig. 23

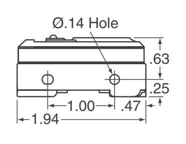

Fig. 24

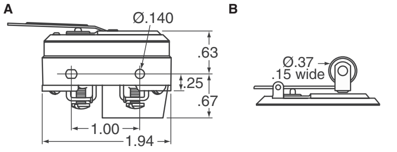

Fig. 25

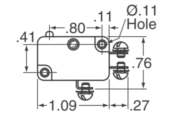

Fig. 26

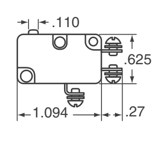

Fig. 27

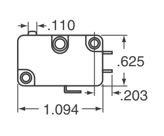

Fig. 28

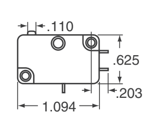

Fig. 29

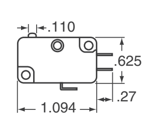

Fig. 30

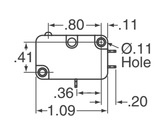

Fig. 31

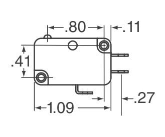

Fig. 32

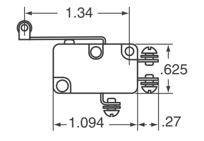

Fig.	Current Rating (A)	Circuit	Actuator Type	Termi-nation	Digi-Key Part No.	Price Each 1	10	100	Honeywell Sensing Part No.
13A	20	SPDT	Plunger	Screw	480-2418-ND	9.54	7.16	5.97	BA-2R
13B	15	SPDT	Plunger	Solder	480-2431-ND	15.41	11.91	10.16	BZ-2RQ
	15	SPDT	Plunger	Solder	480-2432-ND	17.08	13.83	11.60	BZ-2RQ1
14	15	SPDT	Plunger	Screw	480-2425-ND	17.25	13.97	11.71	BZ-3AT
	25	SPDT	Plunger	Screw	480-2426-ND	20.17	15.85	13.69	BA-3ST
15A	20	SPDT	Plunger	Screw	480-2420-ND	11.37	8.75	7.33	BA-2R-A2
	20	SPDT	Plunger	Screw	480-2421-ND	11.43	8.70	7.46	BA-2R-A4
	15	SPDT	Plunger	Screw	480-2419-ND	9.42	7.07	5.90	BZ-2R-A2
	1	SPDT	Plunger	Screw	480-2423-ND	12.47	9.60	8.04	BZ-2R72-A2
	15	SPDT	Plunger	Screw	480-2415-ND	9.56	7.17	5.98	BZ-R-A2
	10	SPDT	Plunger	Screw	480-2422-ND	12.24	9.41	7.89	BZ-R88-A2
15B	15	SPDT	Plunger	Screw	480-2424-ND‡	18.59	15.05	12.62	BZ-2R55-A2-S
15C	15	SPDT	Plunger	Screw	480-2427-ND	11.49	8.75	7.50	BZ-2RD-A2
15D	20	SPDT	Plunger	Screw	480-2428-ND	11.53	8.87	7.43	BA-2RB-A2
15E	15	SPDT	Plunger	Screw	480-2429-ND‡	25.13	20.49	17.60	BZ-2RDS-A2-S
15F	15	SPDT	Plunger	Screw	480-2430-ND	11.75	9.04	7.58	BZ-2RS-A2
15G	15	SPDT	Straight Lever	Screw	480-2456-ND	12.00	9.23	7.74	BZ-2RL-A2
15H	15	SPDT	Roller Lever	Screw	480-2457-ND	12.46	9.58	8.03	BZ-2RL2-A2
16A	15	SPDT	Overtravel Plunger	Screw	480-2436-ND	27.13	22.12	19.00	BZ-2RQ18-A2
16B	15	SPDT	Overtravel Plunger	Screw	480-2437-ND	27.43	22.36	19.20	BZ-2RQ181-A2
16C	15	SPDT	Plunger	Screw	480-2433-ND	14.48	11.39	9.55	BZ-2RQ1-A2
	15	SPDT	Plunger	Screw	480-2439-ND	17.62	14.27	11.96	BZ-3RQ1-A2
	20	SPDT	Plunger	Screw	480-2438-ND	15.74	12.17	10.38	BA-2RQ1-A2
	15	SPDT	Plunger	Screw	480-2434-ND	17.42	13.46	11.29	BZ-2RQ1T
	15	SPDT	Plunger	Screw	480-2435-ND	17.34	13.40	11.24	BZ-2RN-A2
17A	15	SPDT	Straight Lever	Solder	480-2440-ND	10.74	8.18	7.01	BZ-2RW80
17B	15	SPDT	Roller Lever	Solder	480-2450-ND	13.39	10.30	8.63	BZ-2RW822
17C	15	SPDT	Roller Lever	Solder	480-2447-ND	14.58	11.47	9.62	BZ-2RW82
18A	15	SPDT	Straight Lever	Screw	480-2441-ND	9.39	7.05	5.87	BZ-2RW80-A2
	15	SPDT	Straight Lever	Screw	480-2444-ND	10.06	7.66	6.56	BZ-2RW863-A2
18B	15	SPDT	Straight Lever	Screw	480-2442-ND	11.01	8.38	7.19	BZ-2RW84-A2
	15	SPDT	Straight Lever	Screw	480-2443-ND	13.31	10.47	8.78	BZ-2RW824-A2
18C	15	SPDT	Roller Lever	Screw	480-2452-ND‡	23.19	18.91	16.24	BZ-2RW82255-A2-S
	15	SPDT	Roller Lever	Screw	480-2451-ND	11.47	8.82	7.39	BZ-2RW822-A2
18D	15	SPDT	Roller Lever	Screw	480-2448-ND	13.03	10.03	8.40	BZ-2RW82-A2
19	20	SPDT	Roller Lever	Solder	480-2453-ND	16.52	12.77	10.70	BA-2RV22
20A	20	SPDT	Straight Lever	Screw	480-2445-ND	13.68	10.76	9.02	BA-2RV-A2
	20	SPDT	Straight Lever	Screw	480-2446-ND	15.58	12.05	10.28	BA-2RV6-A2
20B	20	SPDT	Roller Lever	Screw	480-2454-ND	14.63	11.51	9.65	BA-2RV22-A2

Fig.	Current Rating (A)	Circuit	Actuator Type	Termi-nation	Digi-Key Part No.	Price Each 1	10	100	Honeywell Sensing Part No.
20C	20	SPDT	Roller Lever	Screw	480-2449-ND	15.90	12.29	10.49	BA-2RV2-A2
21	15	SPDT	Straight Lever	Solder	480-2455-ND	17.33	14.03	11.77	BZ-RW80X
22A	10	DPDT	Plunger	Screw	480-2458-ND	55.04	45.52	40.17	DT-2R-A7
22B	10	DPDT	Roller Lever	Screw	480-2460-ND	62.69	52.25	47.02	DT-2RV22-A7
22C	10	DPDT	Straight Lever	Screw	480-2459-ND	92.22	77.30	69.31	DT-2RV-A7
23	10	SPDT	Plunger	Solder	480-2461-ND	65.95	54.96	48.55	MT-4R
24A	10	SPDT	Leaf	Screw	480-2462-ND	79.22	67.91	59.99	MT-4RL-A28
	10	SPDT	Straight Lever	Screw	480-2463-ND	85.32	73.13	64.60	MT-4RV-A28
24B	10	SPDT	Roller Lever	Screw	480-2464-ND	95.31	79.89	71.63	MT-4RV22-A28
25	10	SPDT	Plunger	Screw	480-2408-ND	11.83	9.10	7.63	V3-1001
	10	SPDT	Plunger	Screw	480-2409-ND	42.89	35.00	31.05	V3-245
	11	SPDT	Plunger	Screw	480-2407-ND	29.28	23.87	20.50	V3-129
26	15	SPDT	Plunger	Screw	480-2877-ND	8.00	5.76	4.80	V3-1
	11	SPDT	Plunger	Screw	480-2878-ND	7.61	5.48	4.57	V3-101
27	10	SPDT	Plunger	Solder	480-2879-ND	3.08	2.05	1.68	V3-1113
28	11	SPDT	Plunger	Solder	480-2880-ND	6.70	4.96	4.10	V3-115
	15	SPDT	Plunger	Solder	480-2882-ND	5.92	4.33	3.53	V3-22
29	11	SPDT	Plunger	Solder	480-2881-ND	6.60	4.89	4.04	V3-119
	10	SPDT	Plunger	Solder	480-2883-ND	12.32	9.48	7.95	V3-3057
	15	SPDT	Plunger	Solder	480-2884-ND	10.49	7.99	6.85	V3-3059
30	15	SPDT	Plunger	Solder	480-2404-ND	6.77	5.01	4.15	V3-15
31	15	SPDT	Plunger	Solder	480-2405-ND	6.38	4.67	3.81	V3-19
	15	SPDT	Plunger	Solder	480-2406-ND	8.23	6.17	5.15	V3-19M
32	11	SPDT	Roller Lever	Screw	480-2885-ND	7.96	5.98	4.98	V3L-111
33	10	SPDT	Straight Lever	Solder	480-2887-ND	26.62	21.70	18.64	V3L-1229
34	15	SPDT	Straight Lever	Solder	480-2888-ND	7.37	5.46	4.52	V3L-3296
35	15	SPDT	Roller Lever	Solder	480-2889-ND	7.90	5.69	4.74	V3L-3339
36	15	SPDT	Simulated Roller	Solder	480-2890-ND	9.71	7.08	6.07	V3L-84
37A	0.1	SPDT	Plunger	QC	480-2359-ND	4.72	3.29	2.70	V7-1S17D8
	0.1	SPDT	Plunger	QC	480-2360-ND	3.59	2.39	1.95	V7-3S17E9
	3	SPDT	Plunger	QC	480-2361-ND	3.58	2.47	2.01	V7-5F17D8
	5	SPDT	Plunger	QC	480-2362-ND	3.66	2.53	2.06	V7-4A17D8
	10	SPDT	Plunger	QC	480-2363-ND	3.59	2.39	1.95	V7-3E19E9
	11	SPDT	Plunger	QC	480-2364-ND	3.67	2.54	2.07	V7-2B17E9
	11	SPST-NO	Plunger	QC	480-2365-ND	3.68	2.54	2.07	V7-2B27E9
	11	SPST-NC	Plunger	QC	480-2366-ND	3.50	2.34	1.91	V7-2B37E9
	11	SPDT	Plunger	QC	480-2367-ND	3.96	2.73	2.23	V7-6B19D8
	11	SPDT	Plunger	QC	480-2368-ND	3.56	2.46	2.01	V7-7B17D8

‡ With Plunger Seal ▲ ***NEW!***

(Continued)

Fig. 33

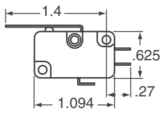

Fig. 34

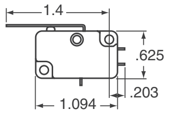

Fig. 35

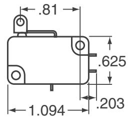

Fig. 36

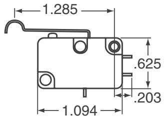

Fig. 37

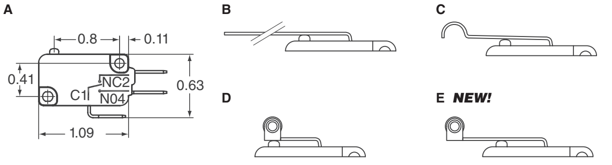

Fig. 38

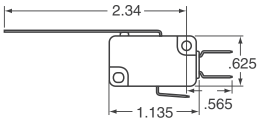

Fig. 39

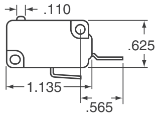

Fig. 40

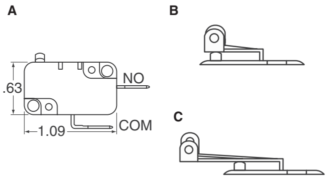

Fig. 41

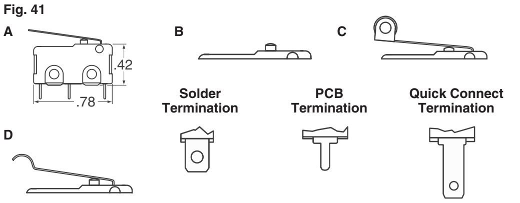

Fig. 42

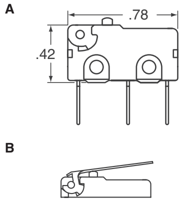

Fig. 43

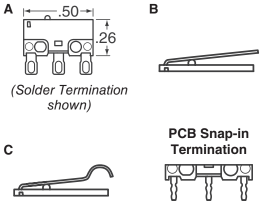

Fig. 44

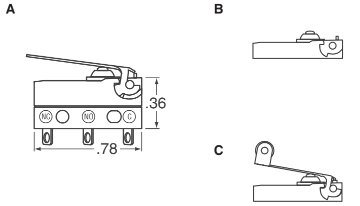

Fig. 45 NEW!

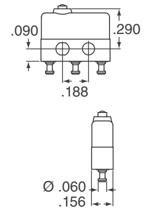

Fig. 46 NEW!

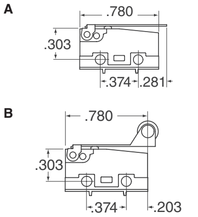

Fig. 47 NEW!

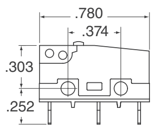

Fig. 48 NEW!

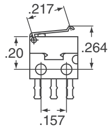

Fig. 49 NEW!

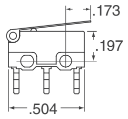

Fig. 50 NEW!

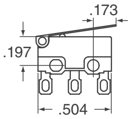

Fig. 51 NEW!

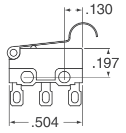

Fig. 52 NEW!

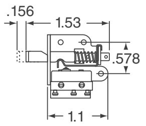

Fig. 53 NEW!

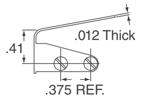

Fig. 54 NEW!

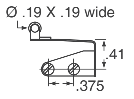

Fig. 55 NEW!

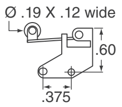

Fig.	Current Rating (A)	Circuit	Actuator Type	Termi- nation	Digi-Key Part No.	Price Each 1	10	100	Honeywell Sensing Part No.
37A	15	SPDT	Plunger	QC	480-2369-ND	3.99	2.76	2.25	V7-1C17E9
	21	SPDT	Plunger	QC	480-2370-ND	3.97	2.74	2.23	V7-1V19E9
	25	SPDT	Plunger	QC	480-2371-ND	3.77	2.60	2.12	V7-1Z19E9
	16	SPDT	Pin Plunger	QC	480-2991-ND▲	2.21	1.50	1.16	V15H16-CZ100-K
	16	SPDT	Pin Plunger	QC	480-2986-ND▲	1.69	1.15	.89	V15T16-CZ100-K
	16	SPDT	Pin Plunger	QC	480-3002-ND▲	2.21	1.50	1.16	V15H16-CZ300-K
	16	SPDT	Pin Plunger	QC	480-2997-ND▲	1.69	1.15	.89	V15T16-CZ300-K
	26	SPDT	Pin Plunger	QC	480-2996-ND▲	2.50	1.70	1.31	V15T26-CZ300-K
37B	0.1	SPDT	Straight Lever	QC	480-2373-ND	5.13	3.64	2.99	V7-1S17D8-022
	5	SPDT	Straight Lever	QC	480-2378-ND	3.35	2.24	1.82	V7-1A17D8-048
	11	SPDT	Straight Lever	QC	480-2375-ND	4.05	2.79	2.28	V7-1B17D8-022
	11	SPDT	Straight Lever	QC	480-2379-ND	4.05	2.79	2.28	V7-1B17D8-048
	15	SPDT	Straight Lever	QC	480-2372-ND	4.07	2.81	2.30	V7-1C17D8-002
	15	SPDT	Straight Lever	QC	480-2377-ND	4.07	2.81	2.30	V7-1C17D8-022
	15	SPDT	Straight Lever	QC	480-2381-ND	4.07	2.81	2.30	V7-1C17D8-048
	11	SPDT	Straight Lever	QC	480-2376-ND	3.93	2.72	2.22	V7-2B17D8-022
	11	SPDT	Straight Lever	QC	480-2380-ND	3.93	2.72	2.22	V7-2B17D8-048
	10	SPDT	Straight Lever	QC	480-2394-ND	3.59	2.48	2.02	V7-3E17D8-148
	3	SPDT	Paddle	QC	480-2395-ND	8.46	6.35	5.29	V7-5F17D8-336
	11	SPDT	Straight Lever	QC	480-2374-ND	4.35	3.03	2.49	V7-6B19E9-022
	16	SPDT	Straight Lever	QC	480-2992-ND▲	2.28	1.54	1.19	V15H16-CZ100A02-K
	16	SPDT	Straight Lever	QC	480-2987-ND▲	1.76	1.19	.92	V15T16-CZ100A02-K
	16	SPDT	Straight Lever	QC	480-3003-ND▲	2.28	1.54	1.19	V15H16-CZ300A02-K
	16	SPDT	Straight Lever	QC	480-2998-ND▲	1.76	1.19	.92	V15T16-CZ300A02-K
	16	SPDT	Long Str. Lever	QC	480-2993-ND▲	2.31	1.57	1.21	V15H16-CZ100A03-K
	16	SPDT	Long Str. Lever	QC	480-2988-ND▲	1.79	1.21	.94	V15T16-CZ100A03-K
	16	SPDT	Long Str. Lever	QC	480-3004-ND▲	2.31	1.57	1.21	V15H16-CZ300A03-K
	16	SPDT	Long Str. Lever	QC	480-2999-ND▲	1.79	1.21	.94	V15T16-CZ300A03-K
37C	0.1	SPDT	Simulated Roller	QC	480-2382-ND	5.13	3.64	2.99	V7-1S17D8-263
	11	SPDT	Simulated Roller	QC	480-2383-ND	4.05	2.79	2.28	V7-1B17D8-263
	15	SPDT	Simulated Roller	QC	480-2384-ND	4.07	2.81	2.30	V7-1C17D8-263
	15	SPDT	Simulated Roller	QC	480-2385-ND	3.87	2.67	2.18	V7-6C17D8-263
	5	SPDT	Simulated Roller	QC	480-2891-ND	3.81	2.63	2.15	V7-7H15D8-263-1
37D	0.1	SPDT	Roller Lever	QC	480-2386-ND	4.83	3.37	2.76	V7-2S17D8-201
	5	SPDT	Roller Lever	QC	480-2391-ND	3.01	2.01	1.64	V7-2A17D8-207
	11	SPDT	Roller Lever	QC	480-2388-ND	3.93	2.72	2.22	V7-2B17D8-201
	11	SPDT	Roller Lever	QC	480-2392-ND	3.93	2.72	2.22	V7-2B17D8-207
	11	SPDT	Roller Lever	QC	480-2387-ND	3.81	2.63	2.15	V7-7B17D8-201
37D	15	SPDT	Roller Lever	QC	480-2389-ND	4.07	2.81	2.30	V7-1C17D8-201
	15	SPDT	Roller Lever	QC	480-2393-ND	4.07	2.81	2.30	V7-1C17D8-207
	1	SPDT	Roller Lever	QC	480-2390-ND	5.41	3.95	3.23	V7-7D17D8-207
	16	SPDT	Roller Lever	QC	480-2994-ND▲	2.37	1.61	1.25	V15H16-CZ100A05-K
	16	SPDT	Roller Lever	QC	480-2989-ND▲	1.85	1.26	.97	V15T16-CZ100A05-K
	16	SPDT	Roller Lever	QC	480-3005-ND▲	2.37	1.61	1.25	V15H16-CZ300A05-K
	16	SPDT	Roller Lever	QC	480-3000-ND▲	1.85	1.26	.97	V15T16-CZ300A05-K
37E	16	SPDT	Long Roller Lever	QC	480-2995-ND▲	2.41	1.63	1.26	V15H16-CZ100A06-K
	16	SPDT	Long Roller Lever	QC	480-2990-ND▲	1.89	1.28	.99	V15T16-CZ100A06-K
	16	SPDT	Long Roller Lever	QC	480-3006-ND▲	2.41	1.63	1.26	V15H16-CZ300A06-K
	16	SPDT	Long Roller Lever	QC	480-3001-ND▲	1.89	1.28	.99	V15T16-CZ300A06-K
38	15	SPDT	Straight Lever	QC	480-2892-ND	5.30	3.88	3.17	V7-9W1AE9-048
39	15	SPST-NO	Plunger	QC	480-2893-ND	4.30	2.97	2.42	V7-9W2AE9
40A	16	SPDT	Plunger	QC	480-2396-ND	3.65	2.52	2.06	V9-11S43D800
	10	SPST-NO	Plunger	QC	480-2397-ND	3.72	2.57	2.10	V9-16S23D800
	20	SPST-NO	Plunger	QC	480-2399-ND	3.85	2.66	2.17	V9-20S23D900
	20	SPDT	Plunger	QC	480-2400-ND	3.92	2.70	2.21	V9-20S43D900
	25	SPST-NO	Plunger	QC	480-2401-ND	3.98	2.75	2.24	V9-25N23D900
	25	SPDT	Plunger	QC	480-2402-ND	3.98	2.75	2.24	V9-25S43D800
40B	16	SPDT	Roller Plunger	QC	480-2398-ND	4.05	2.79	2.28	V9-16S43D905A
40C	25	SPST-NO	Roller Plunger	QC	480-2403-ND	4.18	2.88	2.35	V9-25S43D906A
41A	5	SPDT	Straight Lever	Solder	480-2349-ND	2.38	1.62	1.25	ZM50E10C01
41B	10.1	SPDT	Plunger	PCB	480-2348-ND	2.53	1.72	1.33	ZM90G20A01
	0.1	SPDT	Plunger	QC	480-2344-ND	2.65	1.74	1.41	ZM10B70A01
	5	SPDT	Plunger	QC	480-2346-ND	2.19	1.42	1.12	ZM50E70A01
	0.1	SPDT	Plunger	Solder	480-2345-ND	2.65	1.74	1.41	ZM10E10A01
	5	SPDT	Plunger	Solder	480-2347-ND	2.19	1.42	1.12	ZM50E10A01
41C	10.1	SPDT	Roller Lever	PCB	480-2351-ND	3.02	2.02	1.65	ZM90G20F01
41D	5	SPDT	Simulated Roller	Solder	480-2350-ND	2.38	1.62	1.25	ZM50E10E01
42A	0.1	SPDT	Plunger	QC	480-2352-ND	2.85	1.93	1.52	ZV10B70A01
	6	SPDT	Plunger	Solder	480-2353-ND	2.31	1.57	1.21	ZV50E10A01
42B	6	SPDT	Straight Lever	Solder	480-2354-ND	2.58	1.70	1.37	ZV50E10B01
	6	SPDT	Straight Lever	QC	480-2355-ND	2.58	1.70	1.37	ZV50E70C01
43A	0.1	SPDT	Plunger	Solder	480-2339-ND	2.65	1.74	1.41	ZX10E10A01
	3	SPDT	Plunger	PCB Snap-In	480-2340-ND	2.19	1.42	1.12	ZX40E30A01
43B	0.1	SPDT	Straight Lever	Solder	480-2341-ND	2.85	1.93	1.52	ZX10E10C01
	3	SPDT	Straight Lever	Solder	480-2342-ND	2.38	1.62	1.25	ZX40E10C01
43C	3	SPDT	Simulated Roller	Solder	480-2343-ND	1.55	1.01	.74	ZX40E10E01

‡ With Plunger Seal ▲ **NEW!**

(Continued)

Fig. 56 ***NEW!***

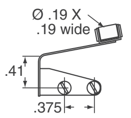

Fig. 57 ***NEW!***

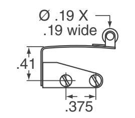

Fig. 58 ***NEW!***

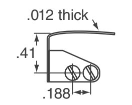

Fig. 59 ***NEW!***

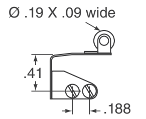

Fig. 60

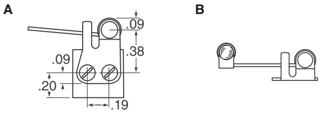

Fig. 61

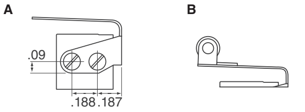

Fig. 62

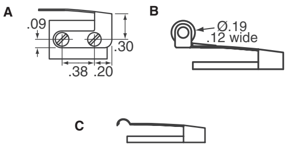

Fig. 63 ***NEW!***

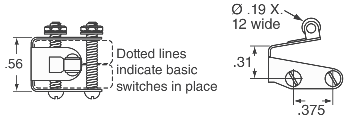

Fig. 64 ***NEW!***

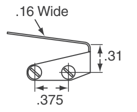

Fig. 65

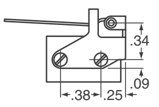

Fig. 66 ***NEW!***

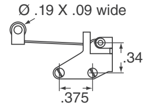

Fig. 67 ***NEW!***

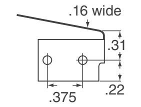

Fig. 68 ***NEW!***

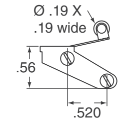

Fig. 69

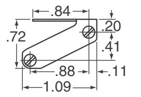

Fig. 70

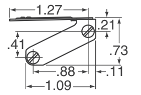

Fig. 71

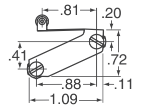

Fig. 72

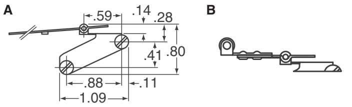

Fig. 73

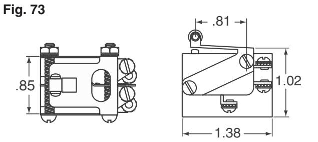

Fig. 74

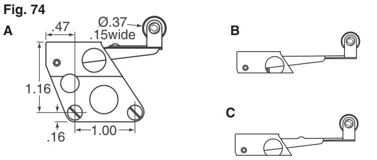

Fig. 75

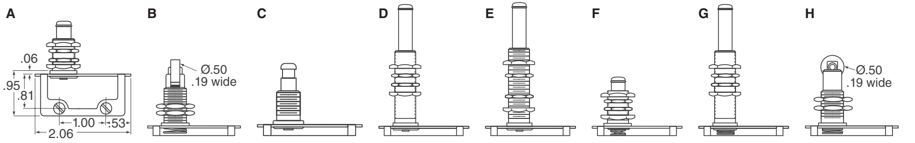

Fig. 76

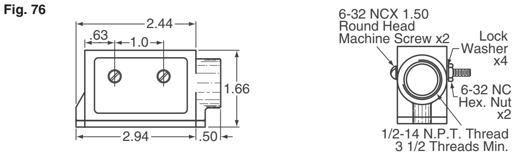

Fig. 77

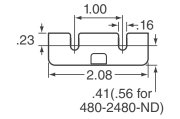

Fig. 78

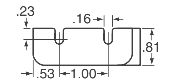

Fig. 79

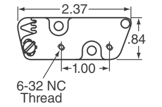

Fig.	Current Rating (A)	Circuit	Actuator Type	Termi-nation	Digi-Key Part No.	Price Each 1	10	100	Honeywell Sensing Part No.
44A	0.1	SPDT	Straight Lever	Solder	480-2356-ND	9.25	6.95	5.79	ZW10E15CD1
44B	5	SPDT	Plunger	Solder Angled	480-2357-ND	7.35	5.44	4.50	ZW50F15AD1
44C	0.1	SPDT	Roller Lever	Cable Exit	480-2358-ND	11.88	9.14	7.66	ZW10E90FW1
45	7	SPDT	Pin Plunger	Turret	480-3026-ND▲	9.82	7.48	6.41	91SX39-T
46A	5	SPDT	Straight Lever	Solder	480-3045-ND▲	2.79	1.89	1.49	UM50E10C01
46B	5	SPDT	Roller Lever	QC	480-3047-ND▲	3.03	2.02	1.65	UM50E70F01
47	5	SPDT	Pin Plunger	QC	480-3046-ND▲	2.37	1.61	1.25	UM50E70A01
48	0.1	SPDT	Simulated Roller	Solder	480-3048-ND▲	3.45	2.30	1.88	US10D10E00
49	0.1	SPDT	Straight Lever	Solder	480-3049-ND▲	2.54	1.72	1.33	UX10E10C01
50	3	SPDT	Straight Lever	Solder	480-3050-ND▲	2.28	1.52	1.20	UX40E10C01
51	3	SPDT	Simulated Roller	Solder	480-3051-ND▲	2.28	1.52	1.20	UX40E10E01

‡ With Plunger Seal ▲ ***NEW!***

Accessories

Fig.	Actuator Type	Digi-Key Part No.	Price Each 1	10	100	Honeywell Sensing Part No.
		Switch Actuators				
52	Plunger Lever	480-3014-ND ***NEW!***	20.35	15.99	13.81	17AC1-T
53	Leaf Lever	480-3027-ND ***NEW!***	7.45	5.52	4.56	JE-1
54	Roller Lever	480-3028-ND ***NEW!***	26.88	21.91	18.82	JE-17
55	Roller Lever	480-3029-ND ***NEW!***	37.73	30.96	27.09	JE-21
56	Roller Lever	480-3030-ND ***NEW!***	20.35	15.99	13.81	JE-4
57	Roller Lever	480-3031-ND ***NEW!***	33.95	27.86	24.38	JE-61
58	Leaf Lever	480-3032-ND ***NEW!***	11.04	8.40	7.20	JM-1
59	Roller Lever	480-3033-ND ***NEW!***	13.79	10.85	9.10	JM-5
60A	Straight Lever	480-2331-ND	5.25	3.79	3.11	JX-20
60B	Roller Lever	480-2332-ND	12.15	9.35	7.84	JX-25
61A	Straight Lever	480-2333-ND	2.71	1.84	1.49	JX-40
	Straight Lever	480-3042-ND ***NEW!***	3.12	2.08	1.70	JX-41
	Straight Lever	480-3043-ND ***NEW!***	3.01	2.04	1.61	JX-44
61B	Roller Lever	480-2334-ND	5.21	3.70	3.04	JX-45
	Roller Lever	480-3044-ND ***NEW!***	6.21	4.55	3.71	JX-51
62A	Straight Lever	480-2335-ND	2.88	1.95	1.54	JS-2
	Straight Lever	480-3039-ND ***NEW!***	2.59	1.71	1.38	JS-6
62B	Roller Lever	480-2336-ND	5.15	3.73	3.06	JS-5

Fig.	Actuator Type	Digi-Key Part No.	Price Each 1	10	100	Honeywell Sensing Part No.
62C	Simulated Roller	480-2337-ND	4.09	2.83	2.30	JS-7
63	Roller Lever	480-3038-ND ***NEW!***	10.81	8.23	7.05	JS-31
64	Leaf Lever	480-3034-ND ***NEW!***	14.06	11.06	9.27	JS-152
65	Straight Lever	480-2338-ND	4.82	3.42	2.81	JS-220
66	Roller Lever	480-3035-ND ***NEW!***	15.77	12.19	10.40	JS-246
	Roller Lever	480-3037-ND ***NEW!***	19.92	16.24	13.95	JS-308
67	Leaf Lever	480-3036-ND ***NEW!***	32.96	27.04	23.66	JS-254
68	Roller Lever	480-3040-ND ***NEW!***	14.96	11.77	9.86	JT-5
69	Straight Lever	480-2410-ND	4.14	2.86	2.33	JV-1
70	Straight Lever	480-2411-ND	17.90	14.50	12.15	JV-7
71	Roller Lever	480-2413-ND	9.83	7.48	6.42	JV-5
72A	Pivot Lever	480-2412-ND	11.38	8.66	7.43	JV-26
72B	Pivot Lever Roller	480-2414-ND	22.19	18.09	15.54	JV-20
73	Roller Lever	480-2876-ND	20.88	17.02	14.62	JV-82
74A	Roller Lever	480-2467-ND	20.45	16.67	14.32	AD3721R
74B	Roller Lever	480-2468-ND	16.79	12.98	10.88	AD5721R
74C	Roller Lever	480-2469-ND	20.45	16.67	14.32	ADD3721R
75A	Plunger	480-2470-ND	19.30	15.17	13.10	MC2711
75B	Cross Roller Plunger	480-2477-ND	60.22	50.19	45.17	MD3211Q1
75C	Plunger	480-2471-ND‡	38.48	31.39	27.85	MC2711H
75D	Plunger	480-2472-ND	29.37	24.11	21.09	MC7711
75E	Plunger	480-2473-ND	52.80	43.67	38.53	MCA7711
75F	Plunger	480-2474-ND	30.76	25.24	22.09	MCD2711
75G	Plunger	480-2475-ND	54.23	44.86	39.58	MCD7711
75H	Roller Plunger	480-2476-ND	43.82	35.75	31.72	MD3211-Q
		Switch Enclosures				
76	Side Mount for Large Switch	480-2478-ND	27.23	22.19	19.06	3PA1
77	Solder Terminals for Large Switch	480-2479-ND	2.14	1.43	1.13	5PA1
	Screw Terminals for Large Switch	480-2480-ND	2.04	1.33	1.04	5PA2
78	Auxiliary Actuator for Large Switch	480-2481-ND	9.66	7.05	6.04	5PA3
79	Adjustable Bracket Mount for Large Switch	480-2482-ND	16.05	12.40	10.58	8MA1
—	Insulator	480-3041-ND ***NEW!***	1.41	.89	.67	JX-10131

‡ With Plunger Seal

Panasonic Sealed Turquoise Switches

Panasonic Electric Works

Dimensions in mm

ABJ Micro Series Sealed Snap Switches

Features: • Ultra miniature size • Sealed construction for use in adverse environments • Epoxy resin and rubber cap greatly reduces possible miscontact due to contaminants such as dust • Conforms to IP67 of IEC protective construction classification • Elastomer double molding technology and industry first ultrasonic swaging technology contribute to uniform sealing in high production quantities

Applications: • Automotive • Agricultural equipment • Outdoor sensing and switching applications

Fig. 1 — Plunger Type

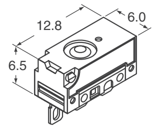

Fig. 2 — Lever Type

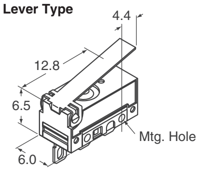

Fig. 3 — Simulated Roller Type

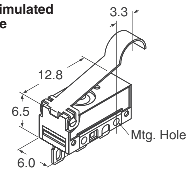

Fig.	Contact Type	Contact Rating (A)	Actuation Force	Terminal Type	Contact Plating	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Panasonic Part No.
1	SPDT	0.1	123gF	Solder	Gold over Silver‡	255-2004-ND	3.53	3.24	2.88	ABJ1410419
	SPDT	0.1	196gF	Solder	Gold over Silver‡	255-2006-ND	3.53	3.24	2.88	ABJ1410619
	SPDT	0.1	123gF	Wire Leads	Gold over Silver‡	255-2012-ND	10.14	9.32	8.28	ABJ1610419
	SPDT	0.1	196gF	Wire Leads	Gold over Silver‡	255-2014-ND	10.14	9.32	8.28	ABJ1610619
	SPDT	1.0	123gF	Wire Leads	Silver over Nickel	255-2011-ND	8.70	7.99	7.10	ABJ1610409
	SPDT	1.0	123gF	Solder	Silver over Nickel	255-2003-ND	2.57	2.37	2.10	ABJ1410409
	SPDT	2.0	196gF	Solder	Silver over Nickel	255-2005-ND	2.57	2.37	2.10	ABJ1410609
	SPDT	2.0	196gF	Wire Leads	Silver over Nickel	255-2013-ND	8.70	7.99	7.10	ABJ1610609
2	SPDT	0.1	64gF	Solder	Gold over Silver‡	255-2008-ND	3.87	3.56	3.16	ABJ1412619
	SPDT	0.1	64gF	Wire Leads	Gold over Silver‡	255-2016-ND	6.57	6.03	5.36	ABJ1612619
	SPDT	2.0	64gF	Solder	Silver over Nickel	255-2007-ND	2.92	2.68	2.38	ABJ1412609
	SPDT	2.0	64gF	Wire Leads	Silver over Nickel	255-2015-ND	5.66	5.20	4.62	ABJ1612609
3	SPDT	0.1	39gF	Solder	Gold over Silver‡	255-2010-ND	3.87	3.56	3.16	ABJ1414419
	SPDT	0.1	39gF	Wire Leads	Gold over Silver‡	255-2018-ND	10.66	9.79	8.70	ABJ1614419
	SPDT	1.0	39gF	Solder	Silver over Nickel	255-2009-ND	2.92	2.68	2.38	ABJ1414409
	SPDT	1.0	39gF	Wire Leads	Silver over Nickel	255-2017-ND	9.19	8.44	7.50	ABJ1614409

‡ Gold over silver contact plating - Low level switching from 1mA to 2A power levels

ABS Mini Series Sealed Snap Switches

Dim. in mm

Features: • Subminiature size • Sealed construction for use in adverse environments • Epoxy resin and rubber cap greatly reduces possible miscontact due to contaminants such as dust • Conforms to IP67 of IEC protective construction classification • Elastomer double molding technology and industry first ultrasonic swaging technology contribute to uniform sealing in high production quantities

Applications: • Automotive • Agricultural equipment • Home appliances (vacuum cleaner, air purifier) • Gas cooking ranges

Fig. 1 — Plunger Type

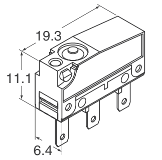

Fig. 2 — Short Lever Type

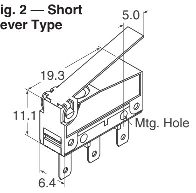

Fig. 3 — Long Lever Type

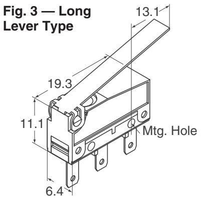

Fig. 4 — Simulated Roller Type

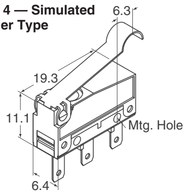

Fig.	Contact Type	Contact Rating (A)	Terminal Type	Actuation Force	Contact Plating	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Panasonic Part No.
1	SPDT	0.1	.110 Quick Connect	147gF	Gold over Silver‡	255-2020-ND	3.53	3.24	2.88	ABS1110519
		0.1	Solder	147gF	Gold over Silver‡	255-2028-ND	3.53	3.24	2.88	ABS1410519
		0.1	PC Mount	147gF	Gold over Silver‡	255-2032-ND	3.53	3.24	2.88	ABS1510519
		0.1	Wire Leads	147gF	Gold over Silver‡	255-2036-ND	10.14	9.32	8.28	ABS1610519
	SPDT	2.0	.110 Quick Connect	147gF	Silver over Nickel	255-2019-ND	2.57	2.37	2.10	ABS1110509
		2.0	Solder	147gF	Silver over Nickel	255-2027-ND	2.57	2.37	2.10	ABS1410509
		2.0	PC Mount	147gF	Silver over Nickel	255-2031-ND	2.57	2.37	2.10	ABS1510509
		2.0	Wire Leads	147gF	Silver over Nickel	255-2035-ND	8.70	7.99	7.10	ABS1610509
2	SPDT	0.1	.110 Quick Connect	54gF	Gold over Silver‡	255-2022-ND	4.19	3.85	3.42	ABS1112519
		0.1	Solder	54gF	Gold over Silver‡	255-2030-ND	4.19	3.85	3.42	ABS1412519
		0.1	PC Mount	54gF	Gold over Silver‡	255-2034-ND	4.19	3.85	3.42	ABS1512519
		0.1	Wire Leads	54gF	Gold over Silver‡	255-2038-ND	11.07	10.17	9.04	ABS1612519
	SPDT	2.0	.110 Quick Connect	54gF	Silver over Nickel	255-2021-ND	3.04	2.79	2.48	ABS1112509
		2.0	Solder	54gF	Silver over Nickel	255-2029-ND	3.04	2.79	2.48	ABS1412509
		2.0	PC Mount	54gF	Silver over Nickel	255-2033-ND	3.04	2.79	2.48	ABS1512509
		2.0	Wire Leads	54gF	Silver over Nickel	255-2037-ND	9.43	8.67	7.70	ABS1612509
3	SPDT	0.1	.110 Quick Connect	44gF	Gold over Silver‡	255-2024-ND	4.19	3.85	3.42	ABS1113519
		2.0	.110 Quick Connect	44gF	Silver over Nickel	255-2023-ND	3.04	2.79	2.48	ABS1113509
4	SPDT	0.1	.110 Quick Connect	54gF	Gold over Silver‡	255-2026-ND	4.19	3.85	3.42	ABS1114519
		2.0	.110 Quick Connect	54gF	Silver over Nickel	255-2025-ND	3.04	2.79	2.48	ABS1114509

‡ Gold over silver contact plating - Low level switching from 1mA to 2A power levels

ABV Standard Series Sealed Snap Switches

Dimensions in mm

Features: • Miniature size • Sealed construction for use in adverse environments • Epoxy resin and rubber cap greatly reduces possible miscontact due to contaminants such as dust • Conforms to IP67 of IEC protective construction classification • Elastomer double molding technology and industry first ultrasonic swaging technology contribute to uniform sealing in high production quantities

Applications: • Automotive sensing • Agricultural equipment • Industrial equipment • Outdoor applications

Fig. 1 — Plunger Type

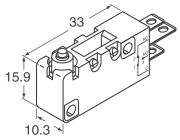

Fig. 2 — Lever Type

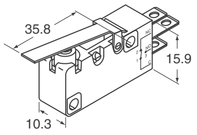

Fig. 3 — Simulated Roller Type

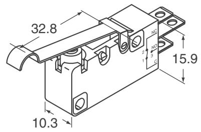

Fig. 4 — Short Roller Type

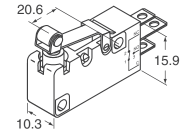

Fig. 5 — Long Roller Type

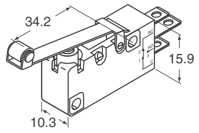

Fig.	Contact Type	Contact Rating (A)	Terminal Type	Contact Plating ‡	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Panasonic Part No.
1	SPDT	5	.187 Quick Connect	Gold Over Silver	255-2039-ND	4.83	4.44	3.94	ABV1210619
			Wire Leads	Gold Over Silver	255-2044-ND	11.34	10.42	9.26	ABV1610619
2	SPDT	5	.187 Quick Connect	Gold Over Silver	255-2040-ND	5.64	5.18	4.60	ABV1212619
			Wire Leads	Gold Over Silver	255-2045-ND	12.52	11.50	10.22	ABV1612619
3	SPDT	5	.187 Quick Connect	Gold Over Silver	255-2041-ND	5.66	5.20	4.62	ABV1214619
			Wire Leads	Gold Over Silver	255-2046-ND	12.52	11.50	10.22	ABV1614619
4	SPDT	5	.187 Quick Connect	Gold Over Silver	255-2042-ND	6.88	6.33	5.62	ABV1215619
			Wire Leads	Gold Over Silver	255-2047-ND	14.50	13.32	11.84	ABV1615619
5	SPDT	5	.187 Quick Connect	Gold Over Silver	255-2043-ND	6.88	6.33	5.62	ABV1216619
			Wire Leads	Gold Over Silver	255-2048-ND	9.09	8.35	7.42	ABV1616619

‡ Gold over Silver contact plating - Low level switching from 1mA to 5A power levels

CHERRY

Snap Type Switches

UL Recognized and CSA Certified

Fig. 1 – Subminiature, DG Series

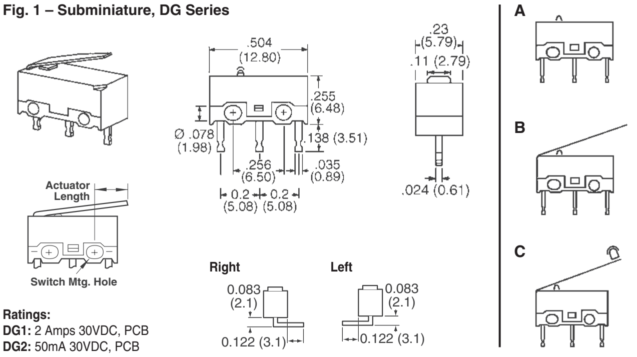

Ratings:
DG1: 2 Amps 30VDC, PCB
DG2: 50mA 30VDC, PCB

Fig. 3 – Water and Dust Sealed, DC Series

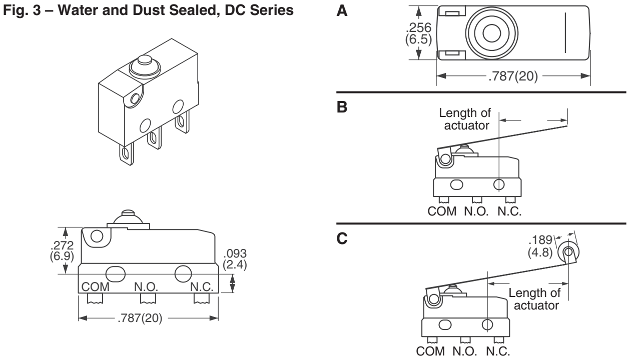

Fig. 2 – Ultra-Subminiature and Subminiature, DH Series

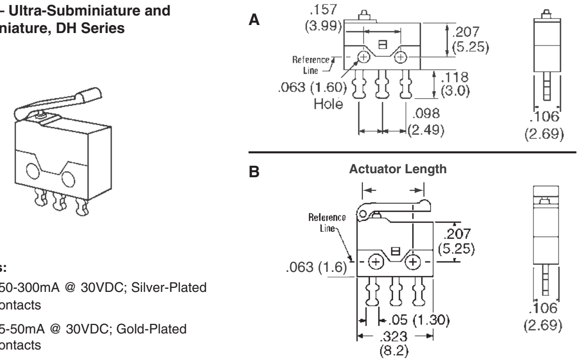

Ratings:

DH3C: 50-300mA @ 30VDC; Silver-Plated Brass contacts

DH4C: 5-50mA @ 30VDC; Gold-Plated Brass contacts

Fig. 4 – Subminiature, DB Series

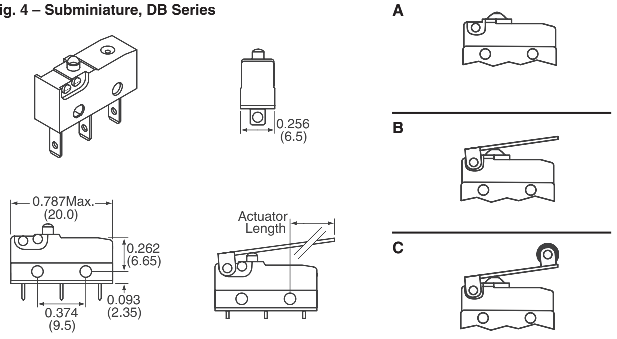

Fig.	Description	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.			Pricing			Cherry Part No.
									1	10	50	100	500	
1A	Subminiature DG Series	SPDT	5 ~ 50mA	Vertical PCB	Button	—	140	CH167-ND◆	1.97	17.52	73.00	125.93	576.70	DG23-B1AA
1B				Vertical PCB	Lever	0.169 (4.29)	45	CH168-ND◆	2.11	18.72	78.00	134.55	616.20	DG23-B1LA
1B				Right Angle - PCB	Lever	0.169 (4.29)	45	CH621-ND◆	2.11	18.72	78.00	134.55	616.20	DG23-B2LA
1B				Left Angle - PCB	Lever	0.169 (4.29)	45	CH624-ND◆	2.11	18.72	78.00	134.55	616.20	DG23-B3LA
1C				Vertical PCB	Roller Lever	0.075 (1.91)	60	CH169-ND◆	4.13	36.72	153.00	263.93	1208.70	DG23-B1RA
1C				Right Angle - PCB	Roller Lever	0.075 (1.91)	60	CH622-ND◆	4.29	38.16	159.00	274.28	1256.10	DG23-B2RA
1A		SPDT	3A	Vertical PCB	Button	—	140	CH164-ND◆	1.89	16.80	70.00	120.75	553.00	DG13-B1AA
1B					Lever	0.169 (4.29)	45	CH165-ND◆	2.05	18.24	76.00	131.10	600.40	DG13-B1LA
1C					Roller Lever	0.075 (1.91)	60	CH166-ND◆	3.89	34.56	144.00	248.40	1137.60	DG13-B1RA
2A	Subminiature DH Series	SPDT	50 ~ 300mA	Straight - Solder	Button	—	90	CH841-ND◆	1.57	13.92	58.00	100.05	458.20	DH3C-B1AA
2A			5 ~ 50mA		Button	—	90	CH842-ND◆	2.86	25.44	106.00	182.85	837.40	DH4C-B1AA
2B			50 ~ 300mA		Simulated Roller	0.252 (6.4)	50	CH843-ND◆	1.73	15.36	64.00	110.40	505.60	DH3C-B1LA
2B			5 ~ 50mA		Simulated Roller	0.252 (6.4)	50	CH844-ND◆	3.00	26.64	111.00	191.48	876.90	DH4C-B1LA
2A		SPDT	50 ~ 300mA	Right Angle - PCB	Button	—	90	CH845-ND◆	1.67	14.88	62.00	106.95	489.80	DH3C-C5AA
2B		SPDT	50 ~ 300mA	Left Angle - PCB	Simulated Roller	0.252 (6.4)	50	CH847-ND◆	2.75	24.48	102.00	175.95	805.80	DH3C-C5LA
2B			5 ~ 50mA		Simulated Roller	0.252 (6.4)	50	CH848-ND◆	3.08	27.36	114.00	196.65	900.60	DH4C-C5LA
2A			50 ~ 300mA		Button	—	90	CH849-ND◆	2.89	25.68	107.00	184.58	845.30	DH3C-C6AA
2A			5 ~ 50mA		Button	—	90	CH850-ND◆	4.89	43.44	181.00	312.23	1429.90	DH4C-C6AA
2B			50 ~ 300mA		Simulated Roller	0.252 (6.4)	50	CH851-ND◆	1.84	16.32	68.00	117.30	537.20	DH3C-C6LA
2B		SPDT	5 ~ 50mA	Straight - PCB	Simulated Roller	0.252 (6.4)	50	CH852-ND◆	3.08	27.36	114.00	196.65	900.60	DH4C-C6LA
2B			5 ~ 50mA		Simulated Roller	0.252 (6.4)	50	CH854-ND◆	4.62	41.04	171.00	294.98	1350.90	DH4C-C4LA
3A	Sealed DC Series Water & Dust	SPDT	0.1A	Solder Eyelet	Button	—	200	CH293-ND◆	4.64	41.28	172.00	296.70	1358.80	DC3C-A1AA
3A				Wire 18AWG Leads	Button	—	204	CH614-ND	11.23	99.84	416.00	717.60	3286.40	DC3C-D5AA
3A				Left Angle - PCB	Button	—	204	CH615-ND◆	3.89	34.56	144.00	248.40	1137.60	DC3C-K7AA
3B				Solder Eyelet	Lever	0.189 (4.80)	80	CH613-ND◆	5.70	50.64	211.00	363.98	1666.90	DC3C-A1LB
3A		SPDT	5A	Solder Eyelet	Button	—	200	CH290-ND◆	4.29	38.16	159.00	274.28	1256.10	DC1C-A1AA
3A				Right Angle - PCB	Button	—	200	CH608-ND◆	3.81	33.84	141.00	243.23	1113.90	DC1C-K6AA
3B				Solder Eyelet	Lever	0.189 (4.80)	80	CH291-ND◆	4.75	42.24	176.00	303.60	1390.40	DC1C-A1LB
3B				.110 (2.79) QC	Lever	0.276 (7.01)	70	CH609-ND◆	4.62	41.04	171.00	294.98	1350.90	DC1C-L1LC
3C				Solder Eyelet	Roller Lever	0.098 (2.49)	90	CH606-ND◆	6.94	61.68	257.00	443.33	2030.30	DC1C-A1RB
3A		SPDT	10.1A	Solder Eyelet	Button	—	340	CH292-ND◆	4.73	42.00	175.00	301.88	1382.50	DC2C-A1AA
3B				Solder Eyelet	Lever	0.189 (4.80)	150	CH610-ND◆	5.59	49.68	207.00	357.08	1635.30	DC2C-A1LB
3A				Wire 16AWG Leads	Button	—	340	CH611-ND	15.77	140.16	584.00	1007.40	4613.60	DC2C-E5AA
4A	DB Series Subminiature	SPDT	0.1A	.110 (2.79) QC	Button	—	150	CH879-ND◆	2.05	18.24	76.00	125.40	570.00	DB3CB1AA
4A				.110 (2.79) QC	Button	0.189 (4.8)	60	CH880-ND◆	2.59	23.04	96.00	158.40	720.00	DB3CB1LB
4A				Straight PCB	Button	—	150	CH881-ND◆	2.00	17.76	74.00	122.10	555.00	DB3CC1AA
4B		SPDT	1A	Solder Short	Lever	0.189 (4.8)	60	CH884-ND◆	2.38	21.12	88.00	145.20	660.00	DB1CA1LB
4A				.110 (2.79) QC	Button	—	150	CH885-ND◆	1.84	16.32	68.00	112.20	510.00	DB1CB1AA
4C				.110 (2.79) QC	Roller Lever	0.185 (4.7)	55	CH882-ND◆	3.46	30.72	128.00	211.20	960.00	DB1CB1RC
4A		SPDT	5A	Solder	Plunger Only	—	150	CH288-ND◆	1.70	15.12	63.00	108.68	497.70	DB1CA1AA
4A				PCB Pin	Plunger Only	—	150	CH289-ND◆	1.84	16.32	68.00	117.30	537.20	DB1CC1AA
4A		SPDT	10A	Solder Short	Button	—	250	CH886-ND◆	1.84	16.32	68.00	112.20	510.00	DB2CA1AA
4A				Straight PCB	Button	—		CH883-ND◆	1.84	16.32	68.00	112.20	510.00	DB2CC1AA
—	Replacement Actuator	Standard Lever for 1LB/1MB Suffix						CH657-ND	.16	1.44	6.00	10.35	47.40	0014-5576
		Standard Lever for DC Series, LC Suffix						CH668-ND◆	.16	1.44	6.00	10.35	47.40	0614-1233
		Extra Long Lever, LD Suffix						CH669-ND◆	.41	3.60	15.00	25.88	118.50	0614-1234
		Roller Lever for DC Series, RB Suffix						CH673-ND	.68	6.00	25.00	43.13	197.50	0714-0260
		Roller Lever for DC Series, RC Suffix						CH674-ND	.86	7.68	32.00	55.20	252.80	0714-0261
		Simulated Roller Lever, SC Suffix						CH671-ND◆	.24	2.16	9.00	15.53	71.10	0614-1238
		Simulated Roller Lever, SD Suffix						CH672-ND◆	.35	3.12	13.00	22.43	102.70	0614-1239

◆ ***RoHS Compliant***

CHERRY

Snap and Lever Type Switches

Fig. 1 **E13, E14, E19, E20, G13 Series**

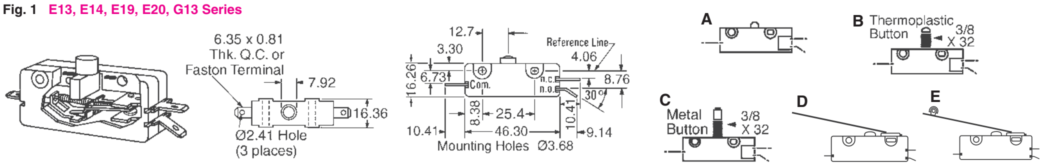

Ratings:
E13: 15A – 125/250VAC,
3/4 HP – 125VAC, 1-1/2 HP – 250VAC
E14: 25A – 125/250VAC,
1 HP – 125VAC, 2 HP – 250VAC
E19: 15A – 125/250VAC,
3/4 HP – 125VAC
E20: 20A – 125/250VAC, 1 HP – 125VAC
G13: 0.1A – 125VAC,
Gold crosspoint contacts

Fig.	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each			Cherry Part No.
								1	10	50	
General Purpose – E13, E14, E19, E20 and G13 Power Series											
1B	SPDT	0.1A	.250 QC (6.35)	Threaded Bushing	—	425	CH573-ND◆	5.94	5.28	4.40	G13-00J
1C	SPDT	0.1A	.250 QC (6.35)	Threaded Bushing	—	425	CH574-ND◆	6.86	6.10	5.08	G13-00M
1A	SPDT	15A	.250 QC (6.35)	Plastic Button	—	425	CH102-ND◆	2.97	2.64	2.20	E13-00E
1B	SPDT	15A	.250 QC (6.35)	THD Bushing, Plastic Button	—	425	CH100-ND◆	3.46	3.08	2.56	E13-00J
1C	SPDT	15A	.250 QC (6.35)	THD Bushing, Metal Button	—	425	CH101-ND◆	4.40	3.92	3.26	E13-00M
1D	SPDT	15A	.250 QC (6.35)	Long Lever	1.5 (38.10)	100	CH312-ND◆	4.24	3.77	3.14	E13-00H
1D	SPDT	15A	.250 QC (6.35)	Long Lever	1.75 (44.45)	65	CH314-ND◆	4.24	3.77	3.14	E13-50H
1E	SPDT	15A	.250 QC (6.35)	Long Roller	1.391 (35.33)	100	CH313-ND◆	5.16	4.59	3.82	E13-00K
1E	DPDT	20A	.250 QC (6.35)	Long Lever	.821 (20.85)	425	CH505-ND◆	10.72	9.53	7.94	E20-00H
1E	DPDT	20A	.250 QC (6.35)	Long Lever	1.071 (27.20)	285	CH506-ND◆	10.72	9.53	7.94	E20-50H
1A	SPDT	25A	.250 QC (6.35)	Plastic Button	—	850	CH315-ND◆	3.92	3.48	2.90	E14-00A
1C	SPDT	25A	.250 QC (6.35)	THD Bushing, Metal Button	—	850	CH318-ND◆	5.24	4.66	3.88	E14-00M
1D	SPDT	25A	.250 QC (6.35)	Short Lever	.821 (20.85)	285	CH316-ND◆	5.29	4.71	3.92	E14-00H
1D	SPDT	25A	.250 QC (6.35)	Long Lever	1.071 (27.20)	170	CH319-ND◆	5.21	4.64	3.86	E14-50H
1A	DPDT	15A	.250 QC (6.35)	Plastic Button	—	850	CH320-ND◆	6.53	5.81	4.84	E19-00A
1B	DPDT	15A	.250 QC (6.35)	THD Bushing, Plastic Button	—	850	CH322-ND◆	8.26	7.35	6.12	E19-00J
1C	DPDT	15A	.250 QC (6.35)	THD Bushing, Metal Button	—	850	CH324-ND◆	8.15	7.25	6.04	E19-00M
1D	DPDT	15A	.250 QC (6.35)	Long Lever	1.5 (38.10)	205	CH321-ND◆	7.78	6.92	5.76	E19-00H
1D	DPDT	15A	.250 QC (6.35)	Long Lever	1.75 (44.45)	130	CH325-ND◆	7.16	6.36	5.30	E19-50H
1E	DPDT	15A	.250 QC (6.35)	Long Roller	1.645 (41.78)	150	CH326-ND◆	8.64	7.68	6.40	E19-50K
1C	DPDT	20A	.250 QC (6.35)	THD Bushing, Metal Button	—	850	CH329-ND◆	10.94	9.72	8.10	E20-00M
1E	DPDT	20A	.250 QC (6.35)	Long Roller	1.391 (35.33)	312	CH330-ND◆	12.18	10.83	9.02	E20-50K
1D	SPST-N/O	15A	.250 QC (6.35)	Long Lever	1.5 (38.10)	100	CH501-ND◆	4.24	3.77	3.14	E13-01H
Brass Mounting Nut for Threaded Bushing							CH284-ND	.14	.12	.10	0012-0023
Knurled Dress Nut Brass for J/M E13/E19/G13							CH651-ND	1.43	1.28	1.06	0012-0025
Hex Nut Nickel Plated for J/M E13/E19/G13							CH652-ND	.19	.17	.14	0012-0028
Lock Washer for J/M E13/E19/G13							CH653-ND	.54	.48	.40	0012-0073
Subminiature – E61, E62 and E63 Series											
2A	SPDT	0.1A	.093 QC (2.36)	Plunger Only	—	90	CH380-ND◆	4.56	4.06	3.38	E63-00A
	SPDT	0.1A	.110 QC (2.36)	Plunger Only	—	90	CH554-ND◆	4.51	4.01	3.34	E63-30A
2B	SPDT	0.1A	.093 QC (2.36)	Lever, Standard Ratio	.396 (10.06)	9	CH384-ND◆	5.94	5.28	4.40	E63-50H
	SPDT	0.1A	Solder Eyelet	Long Lever	.396 (10.06)	9	CH557-ND◆	5.40	4.80	4.00	E63-60H
2C	SPDT	0.1A	Solder Eyelet	Roller Lever	.201 (5.11)	30	CH552-ND◆	5.48	4.88	4.06	E63-10K
	SPDT	0.1A	.093 QC (2.36)	Roller Lever	.201 (5.11)	30	CH382-ND◆	5.70	5.07	4.22	E63-00K
	SPDT	0.1A	.110 QC (2.79)	Roller Lever	.201 (5.11)	30	CH555-ND◆	5.64	5.02	4.18	E63-30K
	SPDT	0.1A	.110 QC (2.79)	Roller Lever	.326 (8.28)	10	CH558-ND◆	6.32	5.62	4.68	E63-80K
2D	SPDT	0.1A	.093 QC (2.36)	Simulated, Roller Lever	.197 (5.0)	30	CH550-ND◆	5.70	5.07	4.22	E63-00R
2A	SPDT	5A	.093 QC (2.36)	Plunger Only	—	90	CH103-ND◆	3.56	3.17	2.64	E61-00A
	SPDT	5A	.110 QC (2.79)	Plunger Only	—	90	CH370-ND◆	3.56	3.17	2.64	E61-30A
	SPDT	5A	Solder Eyelet	Plunger Only	—	90	CH104-ND◆	3.56	3.17	2.64	E61-10A
2B	SPDT	5A	.093 QC (2.36)	Lever, Standard Ratio	.271 (6.88)	27	CH105-ND◆	5.10	4.54	3.78	E61-00H
	SPDT	5A	.110 QC (2.79)	Lever, Standard Ratio	.271 (6.88)	27	CH371-ND◆	5.10	4.54	3.78	E61-30H
	SPDT	5A	Solder Eyelet	Lever, Standard Ratio	.271 (6.88)	27	CH106-ND◆	5.10	4.54	3.78	E61-10H
	SPDT	5A	.093 QC (2.36)	Lever, Standard Ratio	.396 (10.06)	9	CH373-ND◆	5.10	4.54	3.78	E61-50H
2C	SPDT	5A	.093 QC (2.36)	Roller, Standard Ratio	.201 (5.11)	30	CH107-ND◆	5.45	4.85	4.04	E61-00K
	SPDT	5A	Solder Eyelet	Roller, Standard Ratio	.201 (5.11)	30	CH108-ND◆	5.45	4.85	4.04	E61-10K
	SPDT	5A	.110 QC (2.79)	Roller Lever	.201 (5.11)	30	CH372-ND◆	5.45	4.85	4.04	E61-30K
	SPDT	5A	.110 QC (2.79)	Roller Lever	.326 (8.28)	10	CH544-ND◆	5.45	4.85	4.04	E61-80K
	SPDT	5A	.093 QC (2.36)	Roller Lever	.326 (8.28)	10	CH374-ND◆	5.45	4.85	4.04	E61-50K
	SPDT	5A	Solder Eyelet	Roller Lever	.326 (8.28)	10	CH543-ND◆	5.45	4.85	4.04	E61-60K
2A	SPDT	10.1A	.093 QC (2.36)	Plunger Only	—	212	CH109-ND◆	4.02	3.58	2.98	E62-00A
	SPDT	10.1A	Solder Eyelet	Plunger Only	—	212	CH110-ND◆	4.02	3.58	2.98	E62-10A
2B	SPDT	10.1A	.093 QC (2.36)	Lever, Standard Ratio	.271 (6.88)	56	CH111-ND◆	5.10	4.54	3.78	E62-00H
	SPDT	10.1A	Solder Eyelet	Lever, Standard Ratio	.271 (6.88)	56	CH112-ND◆	5.10	4.54	3.78	E62-10H
2C	SPDT	10.1A	.093 QC (2.36)	Roller, Standard Ratio	.201 (5.11)	65	CH113-ND◆	5.89	5.24	4.36	E62-00K
	SPDT	10.1A	Solder Eyelet	Roller, Standard Ratio	.201 (5.11)	65	CH114-ND◆	5.89	5.24	4.36	E62-10K
	SPDT	10.1A	.093 QC (2.36)	Roller Lever	.326 (8.28)	33	CH379-ND◆	5.89	5.24	4.36	E62-50K
2A	SPDT	10.1A	PC Mount	Plunger Only	—	212	CH545-ND◆	4.02	3.58	2.98	E62-50A
2B	SPDT	10.1A	.093 QC (2.36)	Long Lever	.396 (10.06)	20	CH546-ND◆	5.10	4.54	3.78	E62-50H
	SPDT	10.1A	Solder Eyelet	Long Lever	.396 (10.06)	20	CH547-ND ◆	5.10	4.54	3.78	E62-60H
2C	SPDT	10.1A	Solder Eyelet	Roller Lever	.326 (8.28)	33	CH548-ND◆	5.89	5.24	4.36	E62-60K
Replacement Actuator Lever, 2.163” (54.94mm) Long							CH654-ND	.24	.22	.18	0014-0134
Subminiature Snap Switches – DA3 Series											
3	SPDT	0.1A	.093 QC (2.36)	Lever, Standard Ratio	.271 (6.88)	27	CH142-ND◆	5.51	4.90	4.08	DA3C-F1LB
	SPDT	0.1A	Solder Eyelet	Lever, High Ratio	.396 (10.06)	9	CH602-ND◆	5.75	5.12	4.26	DA3C-D1MB
Replacement Actuator Lever, 3.066” (77.88mm) Extra Long							CH656-ND	.27	.24	.20	0014-5519
Panel Mount Pushbutton – E68, E69, E78, E79 and F79 Series — RoHS Compliant											
4A	SPDT	0.1A	.187 QC (4.75)	Momentary	.845 (21.46)	425	CH386-ND	5.86	5.21	4.34	E68-00A
4B	SPDT	0.1A	.187 QC (4.75)	Momentary Cheat Interlock	.730 (18.54)	385	CH387-ND	6.18	5.50	4.58	E68-30A
4B	DPDT	0.1A	.187 QC (4.75)	Push-Pull (Reset)	.9 (22.86)	510	CH568-ND	11.77	10.47	8.72	E78-20A
4C	SPDT	0.1A	.187 QC (4.75)	Short Button Momentary	.420 (10.67)	425	CH388-ND	6.35	5.64	4.70	E68-40A
4D	SPDT	0.1A	.187 QC (4.75)	Auxiliary Pushbutton	.4 (10.16)	425	CH560-ND	6.51	5.79	4.82	E68-50A
4A	SPDT	10A	.187 QC (4.75)	Momentary	.875 (22.23)	425	CH154-ND	4.13	3.68	3.06	E69-00A
4B	SPDT	10A	.187 QC (4.75)	Momentary Cheat Interlock	.980 (24.89)	425/285	CH155-ND	4.91	4.37	3.64	E69-30A
4C	SPDT	10A	.187 QC (4.75)	Short Button Momentary	.450 (11.43)	425	CH156-ND	4.13	3.68	3.06	E69-40A
4A	DPDT	10A	.187 QC (4.75)	Momentary	.875 (22.23)	680	CH157-ND	7.13	6.34	5.28	E79-00A
4A	DPDT	10A	.187 QC (4.75)	Momentary Cheat Interlock	.71 (18.03)	757	CH571-ND	7.45	6.63	5.52	F79-30A
4B	DPDT	10A	.187 QC (4.75)	Push-Pull (Reset)	.920 (23.37)	510	CH392-ND	7.13	6.34	5.28	E79-20A
4B	DPDT	10A	.187 QC (4.75)	Momentary Cheat Interlock	.980 (24.89)	757/567	CH158-ND	9.10	8.09	6.74	E79-30A
Water and Dust Sealed — E72 Series — RoHS Compliant											
5	SPDT	10A	10" Wires	Lever	.858 (21.79)	67	CH391-ND	12.45	11.07	9.22	E72-40HT

◆ ***RoHS Compliant***

(Continued)

Fig. 2 **E61, E62, E63 Series**

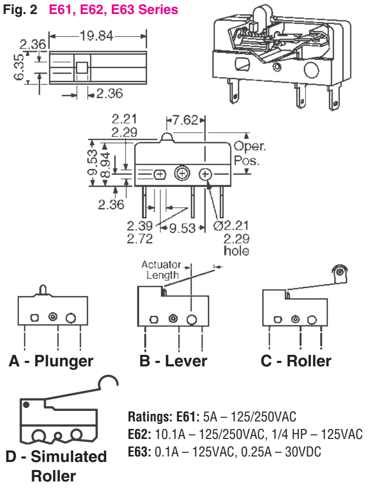

Ratings: E61: 5A – 125/250VAC
E62: 10.1A – 125/250VAC, 1/4 HP – 125VAC
E63: 0.1A – 125VAC, 0.25A – 30VDC

Fig. 3 **DA3 Series**

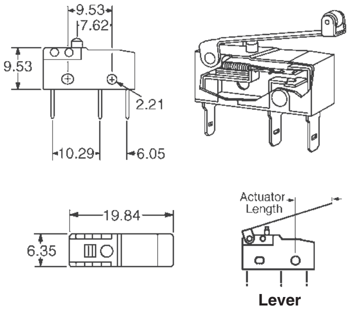

Ratings:
DA3: 0.1A 125VAC

Fig. 4

E68,E69 Series

E78, E79, F79

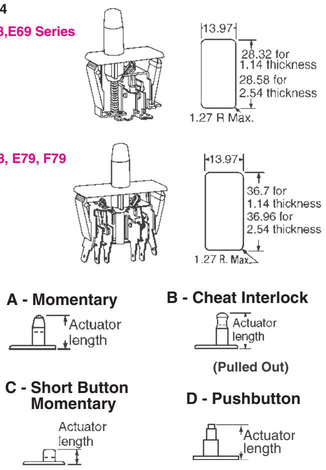

Ratings:
E69: 10A 125/250VAC, 1/3 HP, 125/250VAC
E68/E78: 0.1A 125VAC
E79/F79: 10A 125/250VAC, 1/3 HP, 125/250VAC

CHERRY Snap and Lever Type Switches *(Cont.)*

Fig. 5 E72 Series

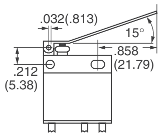

Fig. 6 F80 Series

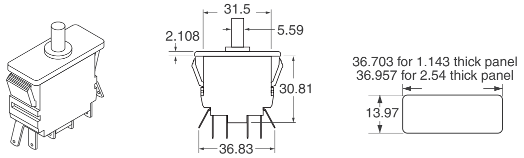

Fig.	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
Line Interrupt Switches – F80 — RoHS Compliant											
6	SPST/SPDT	10A	.250 QC (6.35)	Plunger Only	.238 (6.05)	866	CH626-ND	12.91	11.48	9.56	F81J-A120
	SPST	16A	.250 QC (6.35)	Plunger Only	—	866	CH307-ND	13.31	11.84	9.86	F82A-A120
Light Force and Standard Force Switches — E Series											
7A	SPDT	0.1A	.187 QC (4.75)	Plunger Only	—	75	CH331-ND◆	4.10	3.65	3.04	E21-00A
7B	SPDT	0.1A	.187 QC (4.75)	Long Lever	1.40 (35.56)	35	CH333-ND◆	6.08	5.40	4.50	E21-50H
7C	SPDT	0.1A	.187 QC (4.75)	Light Force - Roller	1.34 (34.04)	8	CH507-ND◆	7.13	6.34	5.28	E21-50KX
7D	SPDT	0.1A	.187 QC (4.75)	Short Roller	.810 (20.57)	75	CH332-ND◆	6.59	5.86	4.88	E21-00K
7A	SPDT	3A	.187 QC (4.75)	Light Force - Plunger Only	—	15	CH335-ND◆	3.59	3.20	2.66	E22-00AX
7B	SPDT	3A	.187 QC (4.75)	Light Force - Short Lever	.865 (21.97)	15	CH514-ND◆	4.24	3.77	3.14	E22-00HX
	SPDT	3A	.187 QC (4.75)	Light Force - Long Lever	1.40 (35.56)	8	CH337-ND◆	4.00	3.56	2.96	E22-50HX
	SPDT	3A	.187 QC (4.75)	Light Force - Long Lever	2.757 (70.03)	4	CH340-ND◆	4.00	3.56	2.96	E22-55HX
	SPDT	3A	.187 QC (4.75)	Light Force - Long Lever	2.932 (74.47)	2	CH341-ND◆	4.19	3.72	3.10	E22-85HX
7C	SPDT	3A	.187 QC (4.75)	Long Roller	1.34 (34.04)	35	CH339-ND◆	4.40	3.92	3.26	E22-50K
7D	SPDT	3A	.187 QC (4.75)	Short Roller	.810 (20.57)	75	CH336-ND◆	4.40	3.92	3.26	E22-00K
7A	SPDT	5A	.187 QC (4.75)	Plunger Only	—	45	CH342-ND◆	3.27	2.91	2.42	E23-00AX
	SPDT	5A	.187 QC (4.75)	Plunger Only	—	170	CH343-ND◆	3.19	2.84	2.36	E23-00A
7B	SPDT	5A	.187 QC (4.75)	Standard Force - Long Lever	1.40 (35.56)	86	CH519-ND◆	3.81	3.39	2.82	E23-50H
	SPDT	5A	.187 QC (4.75)	Light Force - Long Lever	2.757 (70.03)	10	CH347-ND◆	4.13	3.68	3.06	E23-55HX
7C	SPDT	5A	.187 QC (4.75)	Long Roller	1.34 (34.04)	86	CH346-ND◆	4.48	3.99	3.32	E23-50K
7D	SPDT	5A	.187 QC (4.75)	Short Roller	.81 (20.57)	170	CH344-ND◆	4.48	3.99	3.32	E23-00K
7E	SPDT	5A	.187 QC (4.75)	Standard Force - Plastic Lever	1.382 (35.10)	86	CH521-ND◆	3.73	3.32	2.76	E23-50N
7A	SPDT	10A	Screw Term.	Plunger Only	—	75	CH526-ND◆	7.05	6.27	5.22	E33-10A
	SPDT	10A	Solder Term.	Plunger Only	—	75	CH527-ND◆	3.19	2.84	2.36	E33-20A
7B	SPDT	10A	.187 QC (4.75)	Standard Force - Long Lever	1.58 (40.13)	86	CH528-ND◆	3.65	3.24	2.70	E33-50HL
	SPDT	10A	.187 QC (4.75)	Long Lever	1.40 (35.56)	144	CH351-ND◆	3.35	2.98	2.48	E33-50H
	SPDT	10A	.187 QC (4.75)	Light Force - Long Lever	2.932 (74.47)	10	CH355-ND◆	4.10	3.65	3.04	E33-85HX
7C	SPDT	10A	.187 QC (4.75)	Light Force - Roller	1.34 (34.04)	37	CH530-ND◆	4.56	4.06	3.38	E33-50KX
	SPDT	10A	.187 QC (4.75)	Long Roller	1.34 (34.04)	144	CH352-ND◆	3.89	3.46	2.88	E33-50K
	SPDT	10A	.187 QC (4.75)	Long Lever	1.58 (40.13)	22	CH354-ND◆	3.35	2.98	2.48	E33-75HX
7D	SPDT	10A	.187 QC (4.75)	Short Roller	.81 (20.57)	285	CH350-ND◆	3.75	3.34	2.78	E33-00K
7A	SPDT	15A	Solder Term	Standard Force - Button	—	400	CH534-ND◆	3.02	2.69	2.24	E34-20A
7B	SPDT	15A	.187 QC (4.75)	Standard Force - Lever	1.58 (40.13)	120	CH535-ND◆	3.94	3.51	2.92	E34-50HL
	SPDT	15A	.187 QC (4.75)	Light Force - Long Lever	1.40 (35.56)	50	CH358-ND◆	3.70	3.29	2.74	E34-50HX
	SPDT	15A	.187 QC (4.75)	Light Force - Long Lever	2.757 (70.03)	22	CH362-ND◆	3.75	3.34	2.78	E34-55HX
7C	SPDT	15A	.187 QC (4.75)	Long Roller	1.34 (34.04)	200	CH360-ND◆	4.24	3.77	3.14	E34-50K
7E	SPDT	15A	.187 QC (4.75)	Plastic Lever	1.382 (35.10)	200	CH361-ND◆	3.59	3.20	2.66	E34-50N
Standard Size Insulator for E34 Series							CH663-ND	.27	.24	.20	0015-005
Small Size Insulator for E62 Series							CH664-ND	.41	.36	.30	0015-0052
Large Black Plastic Insulator for E34 Series							CH665-ND	.27	.24	.20	0015-0054
Miniature International – D4 Series — RoHS Compliant											
8A	SPDT	0.1A	.187 QC (4.75)	Button	—	75	CH115-ND	4.75	4.23	3.52	D41C-R1AA
8B	SPDT	0.1A	.187 QC (4.75)	Lever, Standard Ratio	1.40 (35.56)	35	CH297-ND	5.21	4.64	3.86	D41C-R1LD
	SPDT	0.1A	.187 QC (4.75)	Lever, High Ratio	2.93 (74.47)	2	CH118-ND	5.21	4.64	3.86	D41L-R1XL
8C	SPDT	0.1A	.187 QC (4.75)	Roller, Standard Ratio	.81 (20.57)	75	CH117-ND	5.45	4.85	4.04	D41C-R1RA
8A	SPDT	3A	.187 QC (4.75)	Button	—	15	CH124-ND	3.08	2.74	2.28	D42L-R1AA
8B	SPDT	3A	.187 QC (4.75)	Lever, High Ratio	2.93 (74.47)	2	CH123-ND	4.62	4.11	3.42	D42L-R1XL
8A	SPDT	5A	.187 QC (4.75)	Button	—	170	CH125-ND	2.59	2.31	1.92	D43C-R1AA
	SPDT	5A	.187 QC (4.75)	Button	—	45	CH129-ND	2.92	2.60	2.16	D43L-R1AA
8C	SPDT	5A	.187 QC (4.75)	Roller, Standard Ratio	.810 (20.57)	170	CH127-ND	3.75	3.34	2.78	D43C-R1RA
8A	SPDT	10A	.187 QC (4.75)	Button	—	285	CH130-ND	2.73	2.43	2.02	D44C-R1AA
	SPDT	10A	.187 QC (4.75)	Button	—	75	CH134-ND	2.86	2.55	2.12	D44L-R1AA
8B	SPDT	10A	.187 QC (4.75)	Lever, Standard Ratio	.865 (21.97)	285	CH131-ND	3.13	2.79	2.32	D44C-R1LA
	SPDT	10A	.187 QC (4.75)	Lever, Standard Ratio	1.40 (35.56)	35	CH299-ND	3.16	2.81	2.34	D44L-R1LD
	SPDT	10A	.187 QC (4.75)	Lever, High Ratio	2.93 (74.47)	10	CH133-ND	3.40	3.03	2.52	D44L-R1ML
8C	SPDT	10A	.187 QC (4.75)	Lever, Standard Ratio	.810 (20.57)	75	CH301-ND	3.81	3.39	2.82	D44L-R1RA
8A	SPDT	15A	.187 QC (4.75)	Button	—	400	CH135-ND	3.13	2.79	2.32	D45C-R1AA
	SPDT	15A	.187 QC (4.75)	Button	—	100	CH139-ND	3.13	2.79	2.32	D45L-R1AA
8B	SPDT	15A	.187 QC (4.75)	Lever, Standard Ratio	.865 (21.97)	400	CH136-ND	3.43	3.05	2.54	D45C-R1LA
	SPDT	15A	.187 QC (4.75)	Lever, High Ratio	2.93 (74.47)	13	CH138-ND	3.51	3.12	2.60	D45L-R1ML
8C	SPDT	15A	.187 QC (4.75)	Roller, Standard Ratio	.810 (20.57)	400	CH137-ND	3.73	3.32	2.76	D45C-R1RA
Miniature International — D4 Series – U.S. Version — RoHS Compliant											
8B	SPDT	0.1A	.187 QC (4.75)	Alum. Lever, Standard Ratio	1.40 (35.56)	8	CH578-ND	5.21	4.64	3.86	D41L-R1YD
	SPDT	3A	.187 QC (4.75)	Lever, Standard Ratio	1.40 (35.56)	35	CH579-ND	3.00	2.67	2.22	D42C-R1LD
	SPDT	3A	.187 QC (4.75)	Alum. Lever, Standard Ratio	1.40 (35.56)	8	CH581-ND	4.62	4.11	3.42	D42L-R1YD
	SPDT	3A	.187 QC (4.75)	Alum. Lever, Standard Ratio	2.757 (70.03)	3.5	CH582-ND	4.73	4.20	3.50	D42L-R1YL
	SPDT	5A	.187 QC (4.75)	Lever, High Ratio	1.58 (40.13)	51	CH583-ND	3.27	2.91	2.42	D43C-R1MD
	SPDT	5A	.187 QC (4.75)	Lever, High Ratio	1.58 (40.13)	20	CH587-ND	3.51	3.12	2.60	D43L-R1MD
	SPDT	10A	.187 QC (4.75)	Lever, Standard Ratio	1.40 (35.56)	144	CH589-ND	3.13	2.79	2.32	D44C-R1LD
8A	SPDT	15A	.250 QC (6.35)	Button	—	400	CH594-ND	3.08	2.74	2.28	D45C-V1AA
8B	SPDT	15A	.187 QC (4.75)	Lever, Standard Ratio	.865 (21.97)	100	CH595-ND	3.46	3.08	2.56	D45L-R1LA
	SPDT	15A	.187 QC (4.75)	Lever, High Ratio	1.58 (40.13)	30	CH597-ND	3.29	2.93	2.44	D45L-R1MD

Fig.	Circuitry	Cur-rent	Terminal Inch (mm)	Actuator	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
High Performance Miniature Snap Switches – K Series — RoHS Compliant										
9	SPDT	3A	.187 (4.75), QC Straight	Button, Standard Temp.	25	CH631-ND	3.11	2.76	2.30	KWEA-QACA
NEW! Miniature Switch with Positive Break Action – DZ Series — RoHS Compliant NEW!										
10	SPST	3A	.110 (2.8), QC Straight	Button, Standard Temp.	224	CH904-ND	4.81	4.28	3.56	DZ1FB1BA

◆ *RoHS Compliant*

Fig. 7 E Series

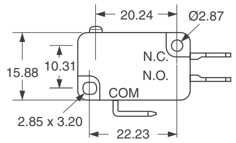

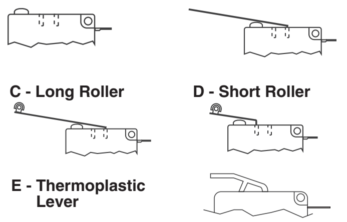

A - Plunger

B - Lever

C - Long Roller

D - Short Roller

E - Thermoplastic Lever

Ratings:
E21: 0.1A 125VAC, Gold contacts
E22: 3A 250VAC
E23: 5A 250VAC
E33: 10A 250VAC
E34: 15A 250VAC, UL 94HB

Fig. 8 D4 Series

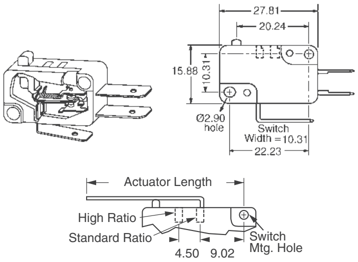

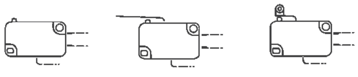

A - Plunger

B - Lever

C - Roller

Ratings: 187 QC terminals.
D41: .1A 125VAC, Gold crosspoint contacts
D42: 3A 125/250VAC
D43: 5A, 1/4 H.P., 125/250VAC
D44: 10A, 1.2 H.P., 125/250VAC
D45: 15A, 1/2 H.P., 125/250VAC.

Fig. 9 K Series

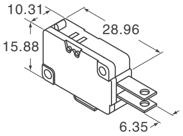

Features:
Centrally located common terminal, wiping contact action, standard temperature ratings up to 150° C

Flammability Ratings: UL94V-O

Electrical Life: 100,000 cycles

Temperature Ratings: • Standard Temperature:-40° ~ 85°C • High Temperature: -40° ~ 150°C

UL and CUL Ratings: KWB: 50mA, 28VDC **KWE/KWF:** 3A, 125/250VAC, 1/10 HP **KWH:** 5A, 1/4 HP, 125/250VAC

Fig. 10 DZ Series ***NEW!***

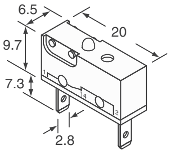

Applications for the DZ-switch are linear drives for adjustable hospital and home device and direct drives for engines. The "Positive Break Action" comes into action when the contact is welded or clotted and the operating force is insufficient to open the contact.

The DZ switch is compliant according to EN 60335-1, heat and fire resistant

Approvals: Europe: 3(3)A 250V~5E4; cULus: 5A 125VAC

Temperature Range: -20°C ~ 85°C

Tyco Electronics **Alcoswitch**

Authorized Distributor

Microswitches

These miniature microswitches, with high reliability and low cost are offered with many options to suit most typical applications and can be used in instrumentation, household appliances, vending machines, industrial control systems, medical equipment and security systems. **Specifications:** • Electrical Life: 100,000 Operations at 16A and 5A, 1,000,000 Operations at 0.1A **Mechanical Life:** 10,000,000 Operations • Operating Temperature Range: -20°C ~ 130°C

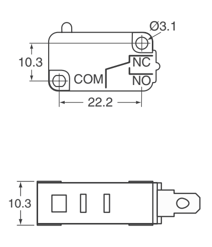

Fig. 1

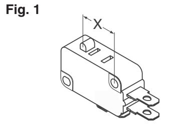

Fig. 2

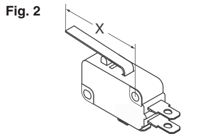

Fig. 3

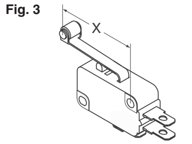

Fig. 4

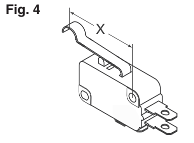

Fig.	Contact Rating	Dimension X (mm)	Operating Force (gF)	Digi-Key Part No.	Price Each 1	10	100	Alcoswitch Part No.
1	16A	20.2	120	450-1440-ND	1.83	1.63	1.27	1478603-1
	16A	20.2	200	450-1441-ND	1.83	1.63	1.27	1478604-1
	16A	20.2	300	450-1442-ND	1.83	1.63	1.27	1478605-1
	0.1A	20.2	60	450-1444-ND	2.60	2.31	1.81	1478670-1
2	16A	35.6	60	450-1445-ND	2.05	1.82	1.42	1478603-3
	16A	35.6	120	450-1446-ND	2.05	1.82	1.42	1478604-3
	16A	35.6	180	450-1447-ND	2.05	1.82	1.42	1478605-3
	5A	35.6	60	450-1448-ND	2.23	1.98	1.55	1478667-3
	0.1A	35.6	35	450-1449-ND	2.76	2.45	1.92	1478670-3
	16A	50.5	30	450-1450-ND	2.11	1.87	1.47	1478603-4
	16A	50.5	60	450-1451-ND	2.11	1.87	1.47	1478604-4
	16A	50.5	90	450-1452-ND	2.11	1.87	1.47	1478605-4
	5A	50.5	30	450-1453-ND	2.33	2.07	1.62	1478667-4
	0.1A	50.5	15	450-1454-ND	2.85	2.53	1.98	1478670-4
3	16A	34	120	450-1455-ND	2.64	2.34	1.83	1478604-6
	0.1A	34	35	450-1457-ND	2.85	2.53	1.98	1478670-6
4	16A	32.6	120	450-1458-ND	2.11	1.87	1.47	1478604-7
	0.1A	32.6	35	450-1460-ND	2.85	2.53	1.98	1478670-7

E-SWITCH™

Snap Action Switches

LS Series

Specifications: • Contact Rating: 15 Amps @ 125/250 VAC • Electrical Life: 50,000 cycles minimum • Mechanical Life: 500,000 cycles typical • Insulation Resistance: 100MΩ minimum • Dielectric Strength: 1,500 VAC for 60 seconds • Operating Temperature: -25°C ~ 85°C Materials: • Switch Housing and Actuator Button: High Temperature PBT (UL94V-0) • Contacts: Silver • Terminals: Copper Alloy

MS Series

Specifications: • Contact Rating: 5 Amps @ 125/250 VAC • Electrical Life: 10,000 cycles minimum • Mechanical Life: 100,000 cycles typical • Insulation Resistance: 100MΩ minimum • Dielectric Strength: 1,000 VAC for 60 seconds • Operating Temperature: -25°C ~ 85°C Materials: • Switch Housing and Actuator Button: High Temperature PBT (UL94V-0) • Contacts: Silver • Terminals: Copper Alloy

Fig.	Dimension X (mm)	Operating Force (gF)	Termination	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
LS Series — Snap Action Switches, 15 Amps								
1	20.35	100	.187QC	EG4518-ND	1.79	1.62	1.38	LS0851500F100C1A
	20.35	100	.250QC	EG4519-ND	1.67	1.50	1.28	LS0851500F100C2A
	20.35	100	Solder Lug	EG4520-ND	1.67	1.50	1.28	LS0851500F100S1A
	20.35	160	.187QC	EG4521-ND	1.67	1.50	1.28	LS0851500F160C1A
	20.35	160	.250QC	EG4522-ND	1.67	1.50	1.28	LS0851500F160C2A
2	36.2	45	.187QC	EG4523-ND	1.72	1.55	1.32	LS0851502F045C1A
	36.2	45	Solder Lug	EG4524-ND	1.72	1.55	1.32	LS0851502F045S1A
	36.2	75	.187QC	EG4525-ND	1.72	1.55	1.32	LS0851502F075C1A
	36.2	75	Solder Lug	EG4526-ND	1.72	1.55	1.32	LS0851502F075S1A
	60.1	40	.187QC	EG4527-ND	1.72	1.55	1.32	LS0851503F040C1A
3	33	85	.187QC	EG4528-ND	1.78	1.61	1.37	LS0851504F085C1A
	33	140	.187QC	EG4529-ND	1.78	1.61	1.37	LS0851504F140C1A
4	20.9	250	.187QC	EG4530-ND	1.84	1.66	1.41	LS0851505F250C1A
	34.3	120	.187QC	EG4531-ND	1.84	1.66	1.41	LS0851506F120C1A
MS Series — Miniature Snap Action Switches, 5 Amps								
5	2	60	.110QC	EG4532-ND	1.01	.91	.78	MS0850500F060C1A
	2	60	Solder Lug	EG4533-ND	1.01	.91	.78	MS0850500F060S1A
	2	80	.110QC	EG4534-ND	1.01	.91	.78	MS0850500F080C1A
	2	80	Solder Lug	EG4535-ND	1.01	.91	.78	MS0850500F080S1A
	2	150	.110QC	EG4536-ND	1.01	.91	.78	MS0850500F150C1A
	2	250	Solder Lug	EG4537-ND	1.01	.91	.78	MS0850500F250S1A
	2	295	Solder Lug	EG4538-ND	1.01	.91	.78	MS0850500F295S1A
6	14.5	25	.110QC	EG4539-ND	1.07	.97	.83	MS0850501F025C1A
	14.5	45	Solder Lug	EG4540-ND	1.07	.97	.83	MS0850501F045S1A
	14.5	70	Solder Lug	EG4541-ND	1.07	.97	.83	MS0850501F070S1A
	16.5	20	Solder Lug	EG4542-ND	1.07	.97	.83	MS0850502F020S1A
	16.5	50	Solder Lug	EG4543-ND	1.07	.97	.83	MS0850502F050S1A
	22.6	10	Solder Lug	EG4544-ND	1.07	.97	.83	MS0850503F010S1A
	22.6	25	Solder Lug	EG4545-ND	1.07	.97	.83	MS0850503F025S1A
	22.6	40	Solder Lug	EG4546-ND	1.07	.97	.83	MS0850503F040S1A
7	14.65	20	Solder Lug	EG4547-ND	1.12	1.01	.87	MS0850504F020S1A
	14.65	35	.110QC	EG4548-ND	1.12	1.01	.87	MS0850504F035C1A
	14.65	35	Solder Lug	EG4549-ND	1.12	1.01	.87	MS0850504F035S1A
	14.65	65	.110QC	EG4550-ND	1.12	1.01	.87	MS0850504F065C1A
8	14.5	35	.110QC	EG4551-ND	1.17	1.06	.90	MS0850505F035C1A
	14.5	45	Solder Lug	EG4552-ND	1.17	1.06	.90	MS0850505F045S1A
	14.5	50	.110QC	EG4553-ND	1.17	1.06	.90	MS0850505F050C1A
	14.5	75	Solder Lug	EG4554-ND	1.17	1.05	.90	MS0850505F075S1A

LS Series

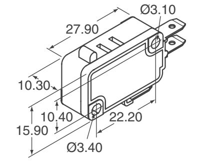

Fig. 1

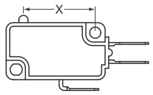

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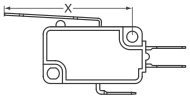

Fig. 3

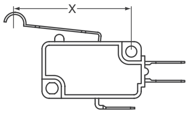

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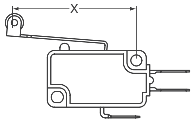

MS Series

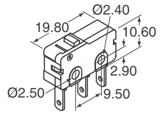

Fig. 5

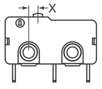

Fig. 6

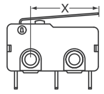

Fig. 7

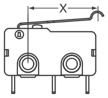

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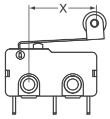

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molex®

Switch Connector and Terminal

Switch Connector:
• 94V-2 Nylon • UL Approved • Accepts 14-28 AWG • Number of Circuits: 3 • Maximum Current Rating: 10 • Maximum Voltage Rating: 250 • Mounting Ears: No • Maximum Panel Thickness: N/A • Eng. No.: 2191

WM2553-ND..................... **$.52**/1; **$4.58**/10; **$30.53**/100

Terminal:
14-22AWG, or (2) 18AWG Spade, Tin plated

WM2684CT-ND† **$1.43**/10; **$11.45**/100; **$47.70**/500
WM2684TR-ND‡ **$186.00**/3,000

† Cut Tape ‡ Tape and Reel

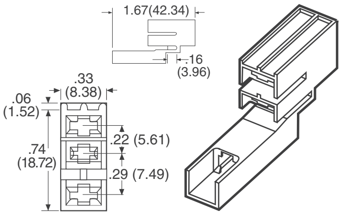

Tyco Electronics **AMP**

Authorized Distributor

AMPIP Post-Insulation Pods

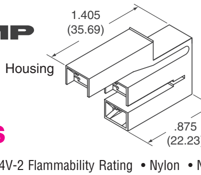

Straight Style .187" Series Receptacle Housings: • UL 94V-2 Flammability Rating • Nylon • Natural color • UL/CSA Approved • Insulation Diameter Maximum: .170" (4.32mm) • 3 circuits
A24758-ND **$4.46**/10; **$39.23**/100

Fastons:
A27696CT-ND† 20-24AWG, Brass, Fit tab .020" (.51mm) **$8.42**/100; **$35.08**/500
A27700CT-ND† 16-20AWG, Brass, Fit tab .020" (.51mm) **$7.19**/100; **$29.94**/500

† Cut Tape

C&K

Snap-acting Switches

A SERIES: Specifications: • Electrical Life: 200,000 cycles at 15A @ 250VAC • Operating Temperature: -55°C ~ 85°C • Switch Housing: Heat resistant phenolic (UL 94V-0)

HB SERIES: Specifications: • Electrical Life: 150,000 cycles at 20A @ 250VAC • Operating Temperature: -55°C ~ 150°C • Switch Housing: Heat resistant/electrical grade phenolic

LC SERIES: Specifications: • Electrical Life: 100,000 cycles at 1A @ 125VAC • Operating Temperature: -25°C ~ 85°C • Switch Housing: Thermoplastic polyester (UL 94V-0) • Terminals: Copper alloy • Terminal Seal: Epoxy

MM SERIES: Specifications: • Electrical Life: 100,000 cycles at full rated load • Operating Temperature: -55°C ~ 135°C • Switch Housing: Heat resistant phenolic (UL 94V-0)

TF SERIES: Specifications: • Electrical Life: 300,000 cycles at 10A @ 250VAC • Operating Temperature: -40°C ~ 85°C • Switch Housing: Thermoplastic (UL 94V-0)

TM SERIES: Specifications: • Electrical Life: 350,000 cycles at 10A @ 250VAC • Operating Temperature: -55°C ~ 150°C • Switch Housing: Thermoplastic or general purpose phenolic (UL 94V-0)

ZMS SERIES: Specifications: • Electrical Life: 10,000 cycles at 3A • Operating Temperature: -25°C ~ 85°C • Switch Housing: Nylon

ZMA SERIES: Specifications: • Electrical Life: 10,000 cycles at 3A • Operating Temperature: -25°C ~ 85°C • Switch Housing: PBT

LCS SERIES: Specifications: • Electrical Life: 6,000 cycles at 6A @ 125VAC UL • Operating Temperature: -40°C ~ 105°C • Switch Housing: Thermoplastic polyester

LCA SERIES: Specifications: • Electrical Life: 6,000 cycles at 10A @ 125VAC • Operating Temperature: -10°C ~ 125°C • Switch Housing: Thermoplastic polyester

Dimensions in mm

Fig. 1

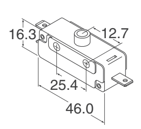

Fig. 2

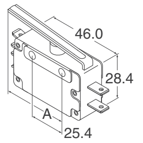

Fig. 3

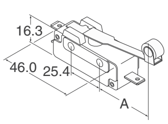

Fig. 4

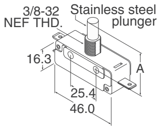

Requires HexNut 0633B

Fig. 5

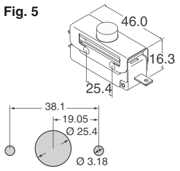

Fig. 6

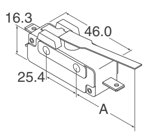

Fig. 7

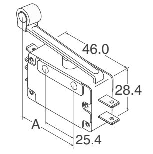

Fig. 8

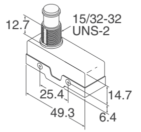

Hardware Included

Fig. 9

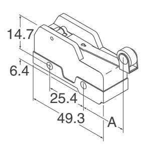

Fig. 10

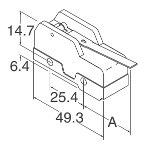

Fig. 11

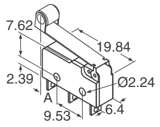

Fig. 12

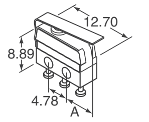

Fig. 13

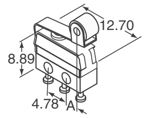

Fig. 14

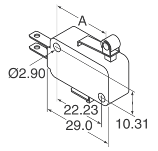

Fig. 15

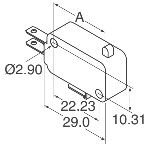

Fig. 16

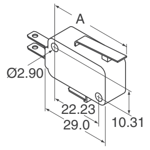

Fig. 17

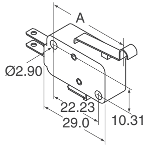

Fig. 18

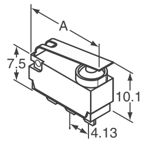

Fig. 19

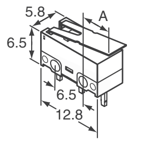

Fig. 20

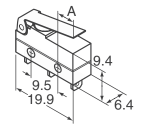

Fig. 21

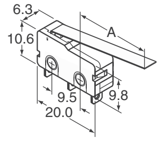

Fig.	Cir-cuitry	Contact Rating (A)	Terminal	Dim. A (mm)	Operating Force (Max. gms)	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
General Purpose — A Series										
1	SPDT	15	.250" QC	—	567	CKN1408-ND	3.48	2.79	2.21	ASKHC2P04AC
2	DPDT	15	.250" QC	41.1	510	CKN1409-ND	8.47	6.78	5.37	ADPDC2L04AC
3	SPDT	15	.250" QC	35.1	113	CKN1410-ND	5.96	4.77	3.78	ASKHC2A04AC
4	DPDT	15	.250" QC	20.6	850	CKN1411-ND	9.37	7.50	5.94	ADPDC2J04AC
4	SPDT	15	.250" QC	20.6	567	CKN1412-ND	5.09	4.07	3.23	ASKHC2J04AC
5	SPDT	15	.250" QC	Blk Cap	567	CKN1413-ND	7.57	6.06	4.80	ASKHC2B14AC
5	SPDT	15	.250" QC	Red Cap	567	CKN1414-ND	7.57	6.06	4.80	ASKHC2BB4AC
6	DPDT	15	.250" QC	38.1	170	CKN1415-ND	8.47	6.78	5.37	ADPDC2T04AC
6	SPDT	15	.250" QC	38.1	113	CKN1416-ND	4.19	3.35	2.66	ASKHC2T04AC
6	SPST	15	.250" QC	38.1	113	CKN1417-ND	3.64	2.91	2.31	ASKHC2T04AY
7	DPDT	15	.250" QC	38.1	510	CKN1418-ND	9.50	7.60	6.02	ADPDC2W04AC
HexNut 3/8-32 NEF-2B THD.............................						CKN1829-ND	.32	.26	.21	0633B
Precision Sealed IP65 — HB Series										
8	SPDT	20	6-32 Screw	—	370	CKN1419-ND	15.16	12.13	9.61	HBS2KCB4SJ055C
9	SPDT	20	4-40 Screw	21.8	100	CKN1420-ND	12.56	10.05	7.96	HBS2KGB4SA011C
9	SPDT	20	6-32 Screw	21.8	100	CKN1421-ND	12.79	10.24	8.10	HBS2KGB4SA055C
10	SPDT	20	4-40 Screw	37.3	71	CKN1422-ND	12.03	9.63	7.63	HBS2KGB4ST011C
Subminiature Precision — LC Series										
11	SPDT	1	Solder	7.1	48	CKN1424-ND	6.95	5.57	4.41	LCGGX1A10EC
11	SPDT	1	Lt. Angle	7.1	57	CKN1425-ND	7.92	6.34	5.02	LCGHF5A10LC
11	SPDT	1	Rt. Angle	7.1	57	CKN1426-ND	7.92	6.34	5.02	LCGHF5A10RC
Mini Precision — MM Series										
12	SPDT	7	Solder Turret	13.5	170	CKN1427-ND	13.64	10.92	8.64	MMGGD1L2C
13	SPDT	7	Solder Turret	6.9	115	CKN1428-ND	18.79	15.04	11.90	MMGGD1W0C
Miniature — TF Series										
14	SPDT	11	.187" QC	20.6	90	CKN1429-ND	7.23	5.79	4.58	TFCGV3VA105BC
15	SPDT	11	.187" QC	20.3	75	CKN1431-ND	5.59	4.47	3.54	TFCGV3VP005BC
15	SPDT	5A 277	.187" QC	Plunger	25	CKN9180-ND	4.71	3.78	2.99	TFCDH8SP0040C
15	SPDT	1	.187" QC	Plunger	25	CKN9181-ND	10.36	8.29	6.57	TFCDF5SP0040C
15	SPDT	5	.250" QC	Plunger	150	CKN9185-ND	5.07	4.06	3.22	TFCJJ6SP004AC
16	SPDT	5A 277	.187" QC	20.6	25	CKN9184-ND	4.80	3.84	3.04	TFCDH8SA1040C
16	SPDT	5A 277	.187" QC	34	25	CKN9183-ND	5.59	4.47	3.54	TFCDH8ST1340C
16	SPDT	5A 277	.187" QC	35.6	25	CKN9182-ND	5.59	4.47	3.54	TFCDH8ST1540C
16	SPDT	11	.187" QC	35.6	40	CKN1432-ND	6.46	5.17	4.10	TFCGV3VT155BC
16	SPDT	11	.187" QC	69.9	20	CKN1433-ND	6.52	5.22	4.14	TFCGV3VT185BC
Miniature — TM Series										
15	SPDT	10	.187" QC	20.3	75	CKN1434-ND	3.89	3.11	2.47	TMCGD6SP0040C
15	SPDT	10	.250" QC	20.3	75	CKN1435-ND	4.17	3.34	2.64	TMCGD6SP004AC
16	SPDT	10	.187" QC	35.6	45	CKN1436-ND	3.27	2.62	2.08	TMCGD6ST1540C
16	SPDT	10	.187" QC	69.9	20	CKN1437-ND	3.22	2.58	2.05	TMCGD6ST1840C
16	SPDT	10	.187" QC	56.4	17	CKN1438-ND	3.27	2.62	2.07	TMCGD6ST2740C
17	SPDT	10	.187" QC	32.8	50	CKN1439-ND	3.23	2.59	2.05	TMCGD6ST1440C
Dust Proof — ZMS Series										
18	SPDT	3	Solder	Plunger	130	CKN9159-ND	3.52	2.82	2.24	ZMSH03130P00SSC
18	SPDT	3	PC Pins	Plunger	130	CKN9161-ND	3.27	2.62	2.08	ZMSL03130P00PSC
18	SPDT	3	Rt. Angle	Plunger	130	CKN9162-ND	3.52	2.82	2.24	ZMSL03130P00RRC
18	SPDT	3	12"Wires	Plunger	130	CKN9163-ND	5.54	4.44	3.51	ZMSH03130P00JSC
18	SPDT	3	Solder	14.7	130	CKN9160-ND	3.52	2.82	2.24	ZMSH03130T10SSC
Subminiature — ZMA Series										
19	SPDT	3	PC Pins	Plunger	150	CKN9164-ND	.85	.68	.54	ZMA03A150P00PC
19	SPDT	3	PC Pins	3.94	150	CKN9165-ND	1.10	.88	.70	ZMA03A150L04PC
19	SPDT	3	Lt. Angle	Plunger	150	CKN9166-ND	1.18	.95	.75	ZMA03A150P00LC
19	SPDT	3	Rt. Angle	Plunger	150	CKN9167-ND	1.18	.95	.75	ZMA03A150P00RC
Subminiature Sealed — LCS Series										
20	SPDT	6	Solder	Plunger	60	CKN9168-ND	3.10	2.49	1.97	LCS06A060P00SC
20	SPDT	6	Solder	2.8	60	CKN9169-ND	3.29	2.63	2.09	LCS06A060L03SC
20	SPDT	6	Solder	18.5	60	CKN9170-ND	3.35	2.68	2.13	LCS06A060L19SC
20	SPDT	6	.110" QC	Plunger	60	CKN9171-ND	3.37	2.70	2.14	LCS06A060P00QC
20	SPDT	6	.110" QC	2.8	60	CKN9172-ND	3.56	2.85	2.26	LCS06A060L03QC
20	SPDT	6	.110" QC	26.4	60	CKN9173-ND	3.66	2.94	2.32	LCS06A060L27QC
Subminiature — LCA Series										
21	SPDT	10	Solder	Plunger	140	CKN9174-ND	1.81	1.45	1.15	LCA10A140P00SC
21	SPDT	10	.110" QC	Plunger	140	CKN9175-ND	2.12	1.70	1.35	LCA10A140P00QC
21	SPDT	10	Solder	20.9	140	CKN9176-ND	2.07	1.66	1.32	LCA10A140L21SC
21	SPDT	10	PC Pins	Plunger	140	CKN9177-ND	2.12	1.70	1.35	LCA10A140P00PC
21	SPDT	10	Lt. Angle	Plunger	140	CKN9178-ND	2.12	1.70	1.35	LCA10A140P00LC
21	SPDT	10	Rt. Angle	Plunger	140	CKN9179-ND	2.12	1.70	1.35	LCA10A140P00RC

Door Interlocks

ITT's door interlock switches feature a push/pull motion making these switches ideal for computer enclosures, panel builders, and industrial enclosures.

Specifications: • Contact Rating: 15A @ 125 and 250VAC • Electrical Life: 150,000 cycles at 15A @ 250VAC • Operating Temperature: -55°C ~ 150°C • **Material:** • Plunger: Stainless Steel • Tapped Plunger: 4-40 X .375 depth

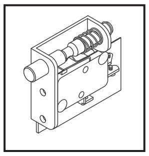

Description	Digi-Key Part No.	Price Each 1	10	100	C&K Part No.
SPDT Screw Terminals	CKN1400-ND	18.68	16.14	13.59	11TL602
SPDT Screw Terminals, Tapped Plunger	CKN1401-ND	21.19	18.31	15.42	11TL604
SPDT Screw Terminals, Tapped Plunger	CKN1402-ND	21.97	18.98	15.99	12TL604
2-SPDT Screw Terminals	CKN1404-ND	27.40	23.67	19.93	23TL602
2-SPDT Screw Terminals, Tapped Plunger	CKN1405-ND	29.92	25.84	21.76	23TL604

ELECTROSWITCH
ELECTRONIC PRODUCTS

C2/C3 Series Rotary Switches 1/4 Amp

The C2/C3 series offers an 8 position and a 12 position vertical PC board mountable design. **Specifications: Electrical: • Current and Voltage Ratings:** 0.25 amp @ 28VDC **• Dielectric Strength:** 1,000VAC **Contact Resistance:** Average initial 30mΩ **Insulation Resistance:** In excess of 10,000MΩ **Mechanical: • Terminal and Contacts:** Brass with silver plate **• Insulation:** Polyester **• Index Life:** 25,000 cycles minimum **• Index Angle:** 30° **• Index Stop:** Adjustable **• Stop Strength:** 8 inches/pound minimum **Hardware:** Mounting nut and lockwasher are shipped assembled.

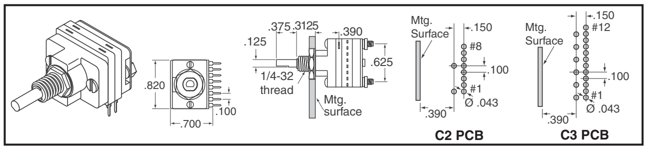

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
C2 Series — 8 Pin — RoHS Compliant									
1	2-8	1	1	No	451-1002-ND	18.50	14.80	12.95	C2P0108N-A
2	2-8	1	2	No	451-1004-ND	22.25	17.80	15.58	C2P0208N-A
2	2-4	2	1	No	451-1003-ND	18.50	14.80	12.95	C2P0204N-A
C3 Series — 12 Pin									
1	2-12	1	1	No	451-1005-ND◆	18.50	14.80	12.95	C3P0112N-A
1	2-12	1	2	No	451-1007-ND	22.25	17.80	15.58	C3P0212N-A
2	2-6	2	1	No	451-1006-ND◆	18.50	14.80	12.95	C3P0206N-A
3	2-4	3	1	No	451-1008-ND◆	18.50	14.80	12.95	C3P0304N-A
4	2-6	2	2	No	451-1009-ND◆	22.25	17.80	15.58	C3P0406N-A
6	2-4	3	2	No	451-1010-ND◆	22.25	17.80	15.58	C3P0604N-A

◆ *RoHS Compliant*

C4 Series Rotary Switches 1/2 Amp

The C4 Series provides a versatile, fully enclosed design, that helps keep dirt and moisture out of the contact area while locking in lifetime lubricants.
Specifications: Electrical: • Current and Voltage Rating: 0.5 amp @ 28VDC; 0.3 amp @ 125VAC **• Dielectric Strength:** 1,000VAC **Contact Resistance:** Average initial 3mΩ **• Insulation Resistance:** In excess of 10,000MΩ **Mechanical: • Terminals and Contacts:** Brass with silver-plate **• Index Life:** 25,000 cycles minimum **• Index Angle:** 30° Standard, 36°, 45°, 60°, and 90° available **• Index Stop:** Adjustable **• Stop Strength:** 25 inches/pound minimum **• Insulation:** Diallyl phthalate
Hardware: Mounting nut and lockwasher are shipped assembled.

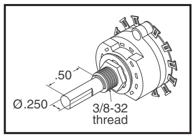

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	2-12	1	1	No	451-1011-ND	15.75	12.60	11.03	C4D0112N-A
2	2-06	2	1	No	451-1012-ND	15.75	12.60	11.03	C4D0206N-A
2	2-12	1	2	No	451-1013-ND	20.25	16.20	14.18	C4D0212N-A
3	2-12	1	3	No	451-1015-ND	23.75	19.00	16.63	C4D0312N-A
3	2-04	3	1	No	451-1014-ND	16.50	13.20	11.55	C4D0304N-A
4	2-12	1	4	No	451-1017-ND	29.00	23.20	20.30	C4D0412N-A
4	2-06	2	2	No	451-1016-ND	20.25	16.20	14.18	C4D0406N-A
5	2-12	1	5	No	451-1018-ND	33.50	26.80	23.45	C4D0512N-A
6	2-06	2	3	No	451-1020-ND	24.50	19.60	17.15	C4D0606N-A
6	2-04	3	2	No	451-1019-ND	20.25	16.20	14.18	C4D0604N-A
6	2-12	1	6	No	451-1021-ND	38.00	30.40	26.60	C4D0612N-A
8	2-06	2	4	No	451-1022-ND	29.75	23.80	20.83	C4D0806N-A
10	2-06	2	5	No	451-1024-ND	35.00	28.00	24.50	C4D1006N-A
12	2-04	3	4	No	451-1025-ND	31.00	24.80	21.70	C4D1204N-A
15	2-04	3	5	No	451-1026-ND	36.25	29.00	25.38	C4D1504N-A

C5 Series Rotary Switches 1.0 Amp

The C5 Series offers a very economical and lightweight design. Standard features include 30° indexing up to 12 positions, solder lug terminals, and both internal and external seals for washability. **Specifications: Electrical: • Current and Voltage Rating:** 1 amp @ 28VDC; 1 amp @ 125VAC **• Dielectric Strength:** 1,000VAC **• Contact Resistance:** Average initial 20mΩ **• Insulation Resistance:** in excess of 10,000MΩ **Mechanical: • Terminals and Contacts:** Brass with silver-plate **• Index Life:** 25,000 cycles minimum **• Index Angle:** Positive 30° **• Index Stop:** Adjustable **• Stop Strength:** 4.5 inches/pound minimum **• Insulation:** Polyester **Hardware:** Mounting nut and lockwasher are shipped assembled.

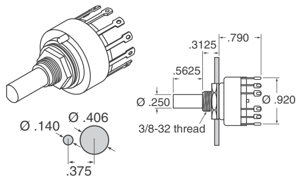

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
C5 Series — Sealed Solder Lug									
1	2-12	1	1	No	451-1027-ND	9.25	7.40	6.48	C5P0112N-A
2	2-06	2	1	No	451-1028-ND	10.00	8.00	7.00	C5P0206N-A
3	2-04	3	1	No	451-1029-ND	10.50	8.40	7.35	C5P0304N-A
4	2-03	4	1	No	451-1030-ND	11.00	8.80	7.70	C5P0403N-A

C7 Series Rotary Switches 1.0 Amp

The C7 Series provides a fully enclosed, modular design that enables switching up to 24 positions. Our standard design offers 15° indexing and solder lug terminals.
Specifications: Electrical: • Current and Voltage Rating: 1.0 amp @ 28VDC; 0.5 amp @ 125VAC **• Dielectric Strength:** 1,000VAC between current carrying parts and ground **• Contact Resistance:** Average Initial 3mΩ **• Insulation Resistance:** In excess of 10,000MΩ **Mechanical: • Terminals and Contacts:** Brass with silver-plate as standard **• Insulation:** Diallyl phthalate **• Index Life:** 25,000 cycles minimum **• Index Stop:** Adjustable **• Stop Strength:** 25 inches/pound minimum
Hardware: Mounting nut and lockwasher are shipped assembled.

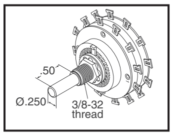

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	23	1	1	No	451-1035-ND	23.75	19.00	16.63	C7D0123N
2	23	1	2	No	451-1037-ND	37.25	29.80	26.08	C7D0223N
1	24	1	1	No	451-1036-ND	23.75	19.00	16.63	C7D0124N-C
2	24	1	2	No	451-1038-ND	37.25	29.80	26.08	C7D0224N-C

D2 Series Rotary Switches .55 Amp

The D2 Series switch is used where space is at a premium. This dual ball side thrust index offers exceptional torque control. Standard designs utilize diallyl phthalate or ceramic insulation, solder lug terminals, and 30° adjustable stop indexing.

Specifications: Electrical: • Current and Voltage Rating: 0.55 amp @ 28VDC; 0.25 amp @ 115VAC **• Current Carrying Capacity:** 7 amps **• Dielectric Strength:** 750VAC between current carrying parts and ground **• Contact Resistance:** Average initial 5mΩ **• Insulation Resistance:** Diallyl in excess of 900,000MΩ, Ceramic in excess of 1,000,000MΩ **Mechanical: • Clips and Rotors:** Brass with silver-plate as standard **• Insulation:** Diallyl phthalate or ceramic **• Index Life:** 25,000 cycles minimum **• Index Angle:** Positive 30° **• Index Stop:** Adjustable standard **• Stop Strength:** 10 inches/pound minimum

Hardware: Mounting nut and lockwasher are shipped assembled.

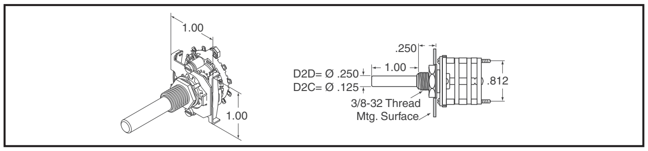

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	2-12	1	1	No	451-1056-ND◆	35.48	29.03	25.80	D2D0112N
2	2-06	2	1	No	451-1057-ND◆	35.48	29.03	25.80	D2D0206N
2	2-12	1	2	No	451-1058-ND◆	47.03	38.48	34.20	D2D0212N
3	2-05	3	1	No	451-1059-ND◆	35.48	29.03	25.80	D2D0305N
3	2-12	1	3	No	451-1060-ND◆	54.25	43.40	37.98	D2D0312N
4	02-06	2	2	No	451-1061-ND◆	42.75	34.20	29.93	D2D0406N
6	02-05	3	2	No	451-1062-ND◆	42.75	34.20	29.93	D2D0605N
6	02-06	2	3	No	451-1063-ND◆	54.25	43.40	37.98	D2D0606N
1	02-11	1	1	No	451-1045-ND	45.00	36.00	31.50	D2C0111N
3	02-03	3	1	No	451-1048-ND◆	45.00	36.00	31.50	D2C0303N
3	02-11	1	3	No	451-1049-ND	92.50	74.00	64.75	D2C0311N
4	02-05	2	2	No	451-1050-ND	68.75	55.00	48.13	D2C0405N

◆ *RoHS Compliant*

D4 Series Rotary Switches 1.5 Amp

The D4 Series switch is the most economical and versatile switch in our open frame rotary line. This series offers the quality feel of a ball and spring index mechanism.
Specifications: Electrical: Current and Voltage Rating: 1.5 amps @ 28VDC; 0.5 amp @ 115VAC **• Dielectric Strength:** 1,500VAC **• Contact Resistance:** Average initial 3.5mΩ **• Insulation Resistance:** Glass epoxy in excess of 750,000MΩ. Ceramic in excess of 1,000,000MΩ
Mechanical: Clips and Rotors: Brass with silver-plate as standard. **• Index Life:** 25,000 cycles minimum **• Index Angle:** Positive 30° **• Stop Strength:** 10 inches/pound minimum **• Index Stop:** Adjustable
Hardware: Mounting nut and lockwasher are shipped assembled.

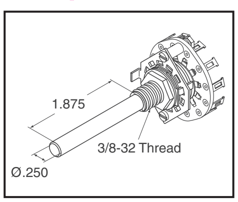

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	02-11	1	1	No	451-1096-ND	23.75	19.00	16.63	D4G0111N
2	02-11	1	2	No	451-1098-ND	32.25	25.80	22.58	D4G0211N
2	02-05	2	1	No	451-1097-ND	23.75	19.00	16.63	D4G0205N
3	02-11	1	3	No	451-1100-ND	40.50	32.40	28.35	D4G0311N
3	02-03	3	1	No	451-1099-ND	23.75	19.00	16.63	D4G0303N
4	02-11	1	4	No	451-1102-ND	48.75	39.00	34.13	D4G0411N
4	02-05	2	2	No	451-1101-ND	32.25	25.80	22.58	D4G0405N
1	02-12	1	1	No	451-1087-ND	35.75	28.60	25.03	D4C0112N

Rotary Accessories — Knobs and Dial Plates

Fig. 1
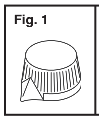

Fig. 2
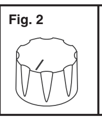

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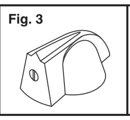

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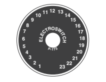

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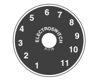

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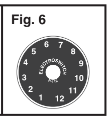

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Electroswitch Part No.
1	Pointer Knob with One Set Screw, .125” Shaft	451-1122-ND	3.25	2.60	1400R
2	Round Knob with One Set Screw, .250” Shaft	451-1123-ND	9.25	7.40	1914N
3	Pointer Knob with One Set Screw, .250” Shaft	451-1121-ND	2.75	2.20	P2300
4	Dial Plate, 1-23 Digit, 1.87” diameter 15°	451-1126-ND	2.38	1.90	P173
5	Dial Plate, 1-11 Digit, 1.87” diameter 30°	451-1125-ND	3.25	2.60	P118
6	Dial Plate, 1-12 Digit, 1.87” diameter 30°	451-1124-ND	3.25	2.60	P112

500 Series Magnetic Encoders

The Electroswitch 500 Series Magnetic Encoders are built upon a contact free integrated circuit design. This encoder integrates hall effect sensing and digital signal processing to provide high-resolution angular measurement solutions.

Specification: Electrical: Operating Voltage: 4.7 ~ 5.7 VDC **• Supply Current:** 30mA max. **• Logic Output:** VCC High; 0.4 Low **• Power Consumption:** 165mW max. **• Operating Temperature:** -40°C ~ 105°C

Note: *Mounting Hardware Included*

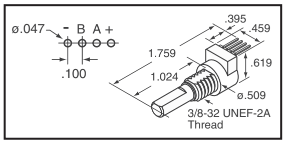

Description	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
Quadrature Output, 32 PPR	451-1127-ND	45.28	36.22	31.70	505Q-0032-S010
Quadrature Output, 64 PPR	451-1128-ND	45.28	36.22	31.70	505Q-0064-S010
Quadrature Output, 128 PPR	451-1129-ND	45.28	36.22	31.70	505Q-0128-S010
Quadrature Output, 256 PPR	451-1130-ND	45.28	36.22	31.70	505Q-0256-S010

Series 75 Single Deck

Specifications: • 0.3 inch diameter • 200mA • Compact Rotary Switch

Features: • PCB Mount • Life: 10,000 cycles • 1/4 - 32 UNF - 2A bushing thread, 1/8 inch shaft • Non-shorting, wiping contacts (shorting contacts not available)

Fig. 1

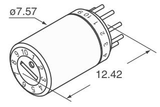

Fig. 2

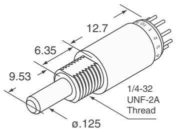

Use Series 11 Grayhill Knobs

Fig.	Style	Angle of Throw	No. of Poles	Pos. per Pole	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
1	Screwdriver	36°	1	4	GH7360-ND	22.37	18.80	13.39	75AP36-01-1-04N
		36°	2	4	GH7363-ND	26.77	22.49	16.02	75AP36-01-2-04N
		36°	1	6	GH7361-ND	22.37	18.80	13.39	75AP36-01-1-06N
		36°	1	8	GH7362-ND	22.37	18.80	13.39	75AP36-01-1-08N
2	Shaft	36°	1	2	GH7306-ND	25.54	21.47	15.29	75BP36-01-1-02N
		36°	1	4	GH7307-ND	25.54	21.47	15.29	75BP36-01-1-04N
		36°	1	6	GH7308-ND	25.54	21.47	15.29	75BP36-01-1-06N

Series 50 and 51 Single Deck

Specifications:

- 0.50 inch Diameter • 200 mA Rotary Switch

Features:

- Industry Standard • Behind panel 0.698 inch (solder terminals), 0.662 inch (PC terminals) • 1/4 - 28 UNF - 2A bushing thread, 1/8 inch shaft • PC or Solder terminals, Life: 25,000 cycles • Adjustable Stop (AJ) with non-shorting contacts (N) **Note:** Contact Digi-Key for shorting contacts (30° and 36° only), shaft and panel seal.

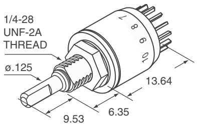

Use Series 11 Grayhill Knobs

Termination	Angle of Throw	No. of Poles	Maximum Positions per Pole	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
Solder	30°	1	12	GH7277-ND	16.66	13.33	10.00	51D30-01-1-AJN
	30°	2	6	GH7309-ND	20.18	16.96	12.08	51D30-01-2-AJN
	36°	1	10	GH7273-ND	15.46	12.37	9.28	50D36-01-1-AJN
	36°	2	5	GH7274-ND	19.11	15.29	11.47	50D36-01-2-AJN
	45°	1	8	GH7347-ND	16.13	13.55	9.65	50D45-01-1-AJN
	45°	2	4	GH7348-ND	20.05	16.85	12.00	50D45-01-2-AJN
	60°	1	6	GH7349-ND	16.13	13.55	9.65	50D60-01-1-AJN
	60°	2	3	GH7350-ND	20.05	16.85	12.00	50D60-01-2-AJN
	90°	1	4	GH7351-ND	16.13	13.56	9.66	50D90-01-1-AJN
	90°	2	2	GH7352-ND	20.05	16.85	12.00	50D90-01-2-AJN
PC	30°	1	12	GH7278-ND	17.35	13.89	10.42	51DP30-01-1-AJN
	30°	2	6	GH7310-ND	20.88	17.55	12.50	51DP30-01-2-AJN
	36°	1	10	GH7275-ND	16.17	12.94	9.70	50DP36-01-1-AJN
	36°	2	5	GH7276-ND	19.80	15.85	11.89	50DP36-01-2-AJN
	45°	1	8	GH7353-ND	16.84	14.15	10.08	50DP45-01-1-AJN
	45°	2	4	GH7354-ND	20.75	17.44	12.42	50DP45-01-2-AJN
	60°	1	6	GH7355-ND	16.84	14.15	10.08	50DP60-01-1-AJN
	60°	2	3	GH7356-ND	20.75	17.44	12.42	50DP60-01-2-AJN
	90°	1	4	GH7357-ND	16.84	14.15	10.08	50DP90-01-1-AJN
	90°	2	2	GH7358-ND	20.75	17.44	12.42	50DP90-01-2-AJN

Series 56 Single Deck

Specifications: • 0.5 inch diameter • 200mA Rotary Switch

Features: • Behind panel 0.480 inch (solder terminals) 0.377 inch (PC terminals) • 1/4 - 28 UNF - 2A bushing thread, 1/8 inch shaft • PC or Solder terminals, Life: 25,000 cycles • Adjustable stop (AJ) with non-shorting contacts (N) **Note:** Contact Digi-Key for shorting contacts

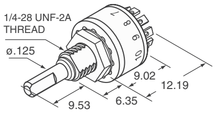

Use Series 11 Grayhill Knobs

Adjustable Stop: Allows you to change number of positions per pole. Simply remove and relocate stop pins in the holes in front of switch. Pins are held in place by a self-adhesive sticker which fits over the front plate.

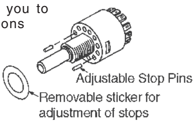

Termination	Angle of Throw	No. of Poles	Maximum Positions per Pole	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
Solder	30°	1	12	GH5601-ND	11.04	8.84	6.63	56D30-01-1-AJN
	30°	2	6	GH5602-ND	12.24	9.80	7.35	56D30-01-2-AJN
	36°	1	10	GH5603-ND	10.68	8.55	6.41	56D36-01-1-AJN
	36°	2	5	GH5604-ND	11.89	9.52	7.14	56D36-01-2-AJN
PC	30°	1	12	GH7279-ND	11.38	9.11	6.83	56DP30-01-1-AJN
	30°	2	6	GH7280-ND	12.60	10.08	7.56	56DP30-01-2-AJN
	36°	1	10	GH7281-ND	11.03	8.83	6.62	56DP36-01-1-AJN
	36°	2	5	GH7282-ND	12.24	9.80	7.35	56DP36-01-2-AJN

Series 71 Multi-Deck

Specifications: • 0.5 to 0.75 inch diameter • 250mA Rotary Switch

Features: • Behind panel: 1 deck - 0.761 inch, 2 decks - 0.979 inch • 71A = 1/4-32 UNEF -2A .125" shaft, 71B = 3/8-32 UNEF -2A .250" shaft. • Adjustable Stop (AJ) with non-shorting contacts (N) **Note:** Contact Digi-Key for shorting contacts.

Fig. 1

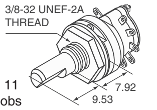

Use Series 11 Grayhill Knobs

Fig. 2

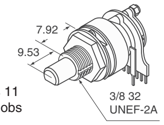

Use Series 11 Grayhill Knobs

Adjustable Stop: Allows you to change number of positions per pole. Simply remove and relocate stop pins in the holes in front of switch. Pins are held in place by a self-adhesive sticker which fits over the front plate.

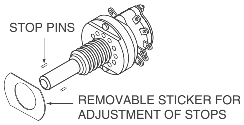

Fig.	Term-ination	Angle of Throw	No. of Decks	Poles per Deck	Max. Positions per Pole	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
1	Solder	30°	1	1	12	GH7319-ND	15.72	13.21	9.41	71AD30-01-1-AJN
		30°	1	2	6	GH7320-ND	16.33	13.72	9.77	71AD30-01-2-AJN
		30°	2	1	12	GH7321-ND	20.35	17.10	12.18	71AD30-02-1-AJN
		30°	2	2	6	GH7322-ND	21.62	18.17	12.94	71AD30-02-2-AJN
		36°	1	1	10	GH7359-ND	15.72	13.22	9.41	71AD36-01-1-AJN
		36°	1	2	5	GH7323-ND	16.33	13.72	9.77	71AD36-01-2-AJN
		36°	2	1	10	GH7324-ND	20.35	17.10	12.18	71AD36-02-1-AJN
		36°	2	2	5	GH7325-ND	21.62	18.17	12.94	71AD36-02-2-AJN
		30°	1	1	12	GH7101-ND	15.71	12.57	9.43	71BD30-01-1-AJN
		30°	1	2	6	GH7102-ND	16.32	13.06	9.80	71BD30-01-2-AJN
		30°	2	1	12	GH7103-ND	20.34	16.28	12.21	71BD30-02-1-AJN
		30°	2	2	6	GH7104-ND	21.61	17.29	12.97	71BD30-02-2-AJN
		36°	1	1	10	GH7311-ND	15.72	13.21	9.41	71BD36-01-1-AJN
		36°	1	2	5	GH7312-ND	16.33	13.72	9.77	71BD36-01-2-AJN
		36°	2	1	10	GH7313-ND	20.35	17.10	12.18	71BD36-02-1-AJN
		36°	2	2	5	GH7314-ND	21.62	18.17	12.94	71BD36-02-2-AJN
2	PC	30°	1	1	12	GH7326-ND	17.17	14.43	10.28	71ADF30-01PAJN
		30°	1	2	6	GH7327-ND	17.81	14.97	10.66	71ADF30-01QAJN
		30°	2	1	12	GH7328-ND	23.57	19.80	14.11	71ADF30-02PAJN
		30°	2	2	6	GH7329-ND	24.81	20.85	14.85	71ADF30-02QAJN
		36°	1	1	10	GH7330-ND	17.17	14.43	10.28	71ADF36-01PAJN
		36°	1	2	5	GH7331-ND	17.81	14.97	10.66	71ADF36-01QAJN
		36°	2	1	10	GH7332-ND	23.57	19.80	14.11	71ADF36-02PAJN
		36°	2	2	5	GH7333-ND	24.81	20.85	14.85	71ADF36-02QAJN
		30°	1	1	12	GH7105-ND	16.84	14.15	10.08	71BDF30-01PAJN
		30°	1	2	6	GH7106-ND	17.46	14.68	10.45	71BDF30-01QAJN
		30°	2	1	12	GH7107-ND	30.62	25.73	18.33	71BDF30-02PAJN
		30°	2	2	6	GH7108-ND	26.69	22.43	15.98	71BDF30-02QAJN
		36°	1	1	10	GH7315-ND	17.17	14.43	10.28	71BDF36-01PAJN
		36°	1	2	5	GH7316-ND	17.81	14.97	10.66	71BDF36-01QAJN
		36°	2	1	10	GH7317-ND	25.86	21.73	15.48	71BDF36-02PAJN
		36°	2	2	5	GH7318-ND	24.81	20.85	14.85	71BDF36-02QAJN

Series 42 and 44 Mil Style

Features:

- Adjustable Stop Rotary Switch
- Rugged construction, fully enclosed, adjustable stops
- Rated make/break, 1A; Carry 10A, 115 VAC resistive
- Non-shorting contact (N)
- Insulation Resistance: 50 MΩ initial, 1000MΩ minimum

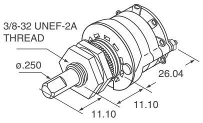

Use Series 11 Grayhill Knobs

Angle Of Throw	Positions per Pole	No. of Decks	Poles Per Deck	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
36°	10	1	1	GH4201-ND	38.69	30.95	23.22	42D36-01-1-AJN
36°	5	1	2	GH4202-ND	40.34	32.27	24.21	42D36-01-2-AJN
36°	10	2	1	GH7343-ND	50.42	42.36	30.17	42D36-02-1-AJN
36°	5	2	2	GH7344-ND	53.76	45.17	32.17	42D36-02-2-AJN
30°	12	1	1	GH4401-ND	39.70	31.76	23.82	44D30-01-1-AJN
30°	6	1	2	GH4402-ND	41.37	33.10	24.83	44D30-01-2-AJN
30°	12	2	1	GH7345-ND	52.77	44.34	31.58	44D30-02-1-AJN
30°	6	2	2	GH7346-ND	56.08	47.12	33.56	44D30-02-2-AJN
30°	12	3	1	GH7334-ND	65.81	55.30	39.39	44D30-03-1-AJN

(Continued)

Grayhill Rotary Switches *(Cont.)*

Series 19

Grayhill's Series 19 Single Deck Rotary Switches are 2 inches in diameter and are rated for 15Amps @ 120VAC. UL Recognized. Rugged Construction

- **Contacts:** Non-shorting
- **Rotational Torque:** 30 to 75 oz-inch
- Hardware included

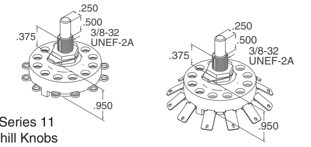

Use Series 11 Grayhill Knobs

Description	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
4 Position, Solder Terminal	GH7283-ND◆	28.92	23.14	17.36	14.47	19001-04UL
6 Position, Solder Terminal	GH7284-ND◆	31.74	25.39	19.05	15.87	19001-06UL
8 Position, Solder Terminal	GH7285-ND◆	34.57	27.66	20.74	17.29	19001-08UL
10 Position, Solder Terminal	GH7286-ND	37.35	29.89	22.42	18.68	19001-10UL
4 Position, .250 Quick Connect	GH7287-ND◆	28.92	23.14	17.36	14.47	19101-04UL
6 Position, .250 Quick Connect	GH7288-ND◆	31.74	25.39	19.05	15.87	19101-06UL
8 Position, .250 Quick Connect	GH7289-ND◆	34.57	27.66	20.74	17.29	19101-08UL
10 Position, .250 Quick Connect	GH7290-ND◆	37.35	29.89	22.42	18.68	19101-10UL

◆ *RoHS Compliant*

Series 11 Knobs

for Rotary Switches and Encoders

Features:
- Color: Black (Contact Digi-Key for Gray color)
- Material: N = Nylon A = ABS
- Spring Clip (press on) or Metal insert with set screw

Fig. 1

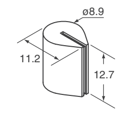

Fig. 2

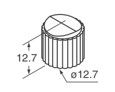

Fig. 3

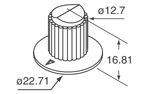

Fig. 4

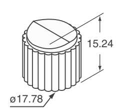

Fig. 5

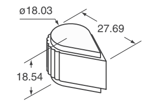

Fig. 6

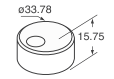

Fig. 7

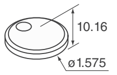

Fig.	Shaft Dia. (Inches)	Set Screw	Spring Clip	Digi-Key Part No.	Price Each 1	10	25	Grayhill Part No.
1	.125	No	Yes	GH7335-ND	1.43	1.32	1.21	11K5017-JCNB
2	.125	No	Yes	GH7336-ND	.60	.55	.51	11K5029-JCNB
3	.125	Yes	No	GH7337-ND	3.35	3.08	2.82	11K5015-JMNB
	.250	Yes	No	GH7338-ND	1.67	1.54	1.41	11K5015-KMNB
4	.250	No	Yes	GH7339-ND	3.35	3.08	2.82	11K5014-KCNB
5	.250	No	Yes	GH7340-ND	.60	.55	.51	11K5028-KCNB
6	.250	Yes	No	GH7341-ND	3.40	3.13	2.86	11K5013-KMNB
7	.250	No	Yes	GH7342-ND	.72	.66	.61	11K5020-KCAB

CTS Adjustable Stop Rotary Switches

Specifications: • Adjustable stop allows you to limit the number of switch positions as needed • **Rotor Contact:** Standard with Silver plated Brass • **Rotor:** Standard with Nylon maximum temperature requirements of 125°C • **Voltage and Current ratings:** UL ratings are 3/4 amp at 125 volts AC; 1/4 amp at 250 volts DC; 1/2 amp at 125 volts DC (non-shorting contacts) • **Contact Resistance:** .008 ~ .010Ω • **Contact Life:** Silver plated brass, solid silver rotor contacts, and silver plated brass stator contacts provide a minimum reliable life of over 1,100,000 operations or of 50,000 cycles through twelve positions and return without appreciable rise in contact resistance.

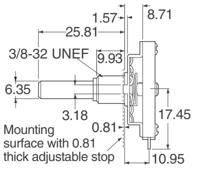

Fig. 1

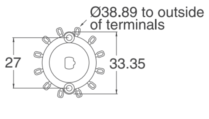

Fig. 2

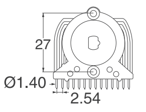

Fig.	Angle of Throw	Type	Terminals	No. Poles	No. Pos.	No. Decks	Current Rating Amps	Digi-Key Part No.	Price Each 1	10	50
1	30°	Non-Short	Solder Lug	SP	12	1	3/4A-125VAC	CT2121-ND	7.59	7.06	5.86
		Shorting			11			CT2122-ND	7.59	7.06	5.86
2	30°	Non-Short	Printed Circuit	SP	12	1	3/4A-125VAC	CT2123-ND	8.28	7.70	6.40
		Shorting			11			CT2124-ND	8.23	7.66	6.36

OMRON Rotary DIP Switches

LIFE EXPECTANCY: • **Mechanical:** 10,000 operations minimum (A6R 5,000) • **Electrical:** 2,000 operations minimum • **Contact Resistance:** 200mΩ.

Fig. 1

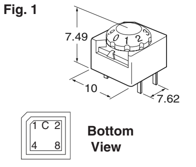

Fig. 2

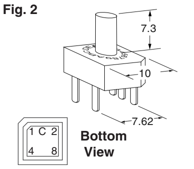

Fig. 3

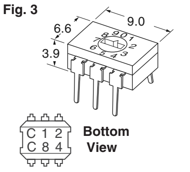

Fig. 4

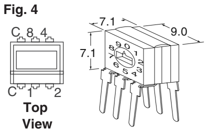

Fig. 5

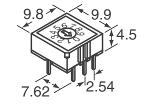

Fig. 6

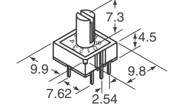

Fig. 7

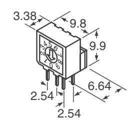

Fig. 8

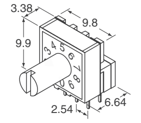

Fig. 9

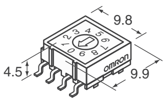

Fig. 10

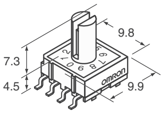

TERMINAL ARRANGEMENT

A6A and A6R Top-Actuated

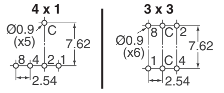

RF-P and RS-P Top-Actuated

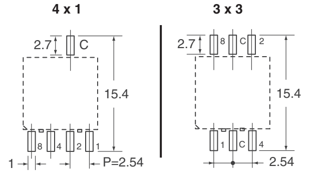

A6RV Side-Actuated

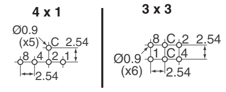

Fig.	No. of Pos.	Output Code Type	Switching Capacity mA	Switching Capacity VDC	Terminal Arrangement	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
1	10	BCD	100	28	4 x 1	SW220-ND	3.75	3.38	3.00	2.70	A6A-10R
	16	Hexdec.				SW221-ND	3.88	3.49	3.10	2.79	A6A-16R
	16	Hexcomp.				SW894-ND	4.94	4.45	3.95	3.56	A6A-16C
2	10	BCD	100	28	4 x 1	SW214-ND	4.13	3.72	3.30	2.97	A6A-10RS
	16	Hexdec.				SW215-ND	4.38	3.94	3.50	3.15	A6A-16RS
	10	BCD	100	28	4 x 1	SW222-ND	4.50	4.05	3.60	3.24	A6A-10RW
	16	Hexdec.				SW223-ND	4.63	4.17	3.70	3.33	A6A-16RW
	16	Hexcomp.				SW895-ND	5.91	5.32	4.73	4.26	A6A-16CW
3	10	BCD	100	30	4 x 1	SW216-ND	2.88	2.59	2.30	2.07	A6C-10R(N)
	16	Hexdec.				SW217-ND	3.00	2.70	2.40	2.16	A6C-16R(N)
4	10	BCD	100	30	4 x 1	SW218-ND	3.88	3.49	3.10	2.79	A6CV-10R
	16	Hexdec.				SW219-ND	4.13	3.72	3.30	2.97	A6CV-16R
5	10	BCD	25	24	4 x 1	SW917-ND	2.88	2.60	2.31	2.08	A6R-101RF
	16	Hexdec.				SW921-ND	3.08	2.77	2.47	2.22	A6R-161RF
	10	BCD	25	24	3 x 3	SW751-ND	2.88	2.60	2.31	2.08	A6R-102RF
	16	Hexdec.				SW752-ND	3.08	2.77	2.47	2.22	A6R-162RF
	10	BCD	25	24	4 X 1	SW918-ND	3.17	2.86	2.54	2.29	A6R-101RS
	16	Hexdec.				SW922-ND	3.37	3.04	2.70	2.43	A6R-161RS
6	10	BCD	25	24	3 x 3	SW753-ND	3.17	2.86	2.54	2.29	A6R-102RS
	16	Hexdec.				SW754-ND	3.37	3.04	2.70	2.43	A6R-162RS
7	10	BCD	25	24	4 x 1	SW923-ND	3.27	2.95	2.62	2.36	A6RV-101RF
	16	Hexdec.				SW925-ND	3.46	3.12	2.77	2.50	A6RV-161RF
	10	BCD	25	24	3 x 3	SW755-ND	3.27	2.95	2.62	2.36	A6RV-102RF
	16	Hexdec.				SW756-ND	3.46	3.12	2.77	2.50	A6RV-162RF
8	10	BCD	25	24	4 x 1	SW924-ND	3.56	3.21	2.85	2.57	A6RV-101RS
	16	Hexdec.				SW926-ND	3.75	3.38	3.00	2.70	A6RV-161RS
	10	BCD	25	24	3 x 3	SW757-ND	3.56	3.21	2.85	2.57	A6RV-102RS
	16	Hexdec.				SW758-ND	3.75	3.38	3.00	2.70	A6RV-162RS
9	10	BCD	25	24	4 x 1	SW1024CT-ND	2.88	2.59	2.30	2.07	A6RS-101RF-P
						SW1024TR-ND		1078.50/750			A6RS-101RF-P
	10	BCD	25	24	3 x 3	SW1025CT-ND	2.88	2.59	2.30	2.07	A6RS-102RF-P
						SW1025TR-ND		1078.50/750			A6RS-102RF-P
	16	Hexdec.	25	24	4 x 1	SW1026CT-ND	3.08	2.77	2.46	2.22	A6RS-161RF-P
						SW1026TR-ND		1153.50/750			A6RS-161RF-P
	16	Hexdec.	25	24	3 x 3	SW1027CT-ND	3.08	2.77	2.46	2.22	A6RS-162RF-P
						SW1027TR-ND		1153.50/750			A6RS-162RF-P
10	10	BCD	25	24	4 x 1	SW1028CT-ND	3.15	2.84	2.52	2.27	A6RS-101RS-P
						SW1028TR-ND		393.75/250			A6RS-101RS-P
	10	BCD	25	24	3 x 3	SW1029CT-ND	3.15	2.84	2.52	2.27	A6RS-102RS-P
						SW1029TR-ND		393.75/250			A6RS-102RS-P
	16	Hexdec.	25	24	4 x 1	SW1030CT-ND	3.35	3.02	2.68	2.42	A6RS-161RS-P
						SW1030TR-ND		418.75/250			A6RS-161RS-P
	16	Hexdec.	25	24	3 x 3	SW1031CT-ND	3.35	3.02	2.68	2.42	A6RS-162RS-P
						SW1031TR-ND		418.75/250			A6RS-162RS-P

Adjustable Stop Rotary Switches KC Series

With applications ranging for test and measurement equipment to telephone base stations to hospital controls. These rotary switches have performed exceptionally well. **Specifications: • Contacts:** (Non-Shorting). Available with solder lugs or printed circuit boards pins with adjustable stops to select any number of positions **• Operating Force:** 570 Grams **• Indexing:** 30° Index **• Contact Rating (Switching):** 150mA 250V AC/DC; 350mA 110V AC/DC **• Contact Rating (Non-Switching):** 5 Amps **• Initial Contact Resistance:** Silver = 50mΩ maximum **• Operating Temperature:** -30°C ~ 85°C **• Moving and Fixed Contact:** Silver plated brass

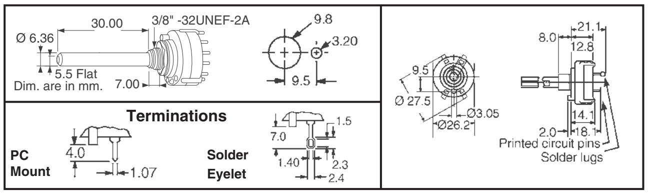

No. of Poles	No. of Pos.	Termination	Digi-Key Part No.	Pricing 1	10	100	E-Switch Part No.
SP	12	PC Mount	EG1951-ND	6.37	57.29	488.06	KC52A30.001NPS
SP	12	Solder Eyelet	EG1952-ND	6.37	57.29	488.06	KC52A30.001NLS
DP	6	PC Mount	EG1953-ND	6.37	57.29	488.06	KC26A30.001NPS
DP	6	Solder Eyelet	EG1954-ND	6.37	57.29	488.06	KC26A30.001NLS
3P	4	PC Mount	EG1955-ND	6.37	57.29	488.06	KC34A30.001NPS
3P	4	Solder Eyelet	EG1956-ND	6.37	57.29	488.06	KC34A30.001NLS
4P	3	PC Mount	EG1957-ND	6.37	57.29	488.06	KC43A30.001NPS
4P	3	Solder Eyelet	EG1958-ND	6.37	57.29	488.06	KC43A30.001NLS
Stop Ring for 12 Position Switch			EG1959-ND	.15	1.35	11.50	G200000

Adjustable Stop Rotary Switches

Specifications: • Contact Rating: Switch: 2.5Amps @ 125VAC or 28VDC; 150mA @ 250VAC or DC; Carry: 5Amps • Electrical Life: 15,000 make-and-break cycles • Contact Resistance: 20mΩ typical • Operating Temperature: -30°C ~ 85°C **Materials:** • Housing: Glass filled nylon, red • Movable Contact: Coin silver, silver plated • Stationary Contacts and Terminals: Brass, silver plated **Hardware:** Nut, Lockwasher, Stop Ring Included

Dim. in mm

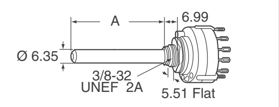

Fig. 1

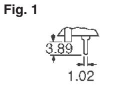

Fig. 2

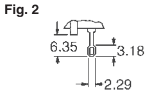

Fig.	Poles	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	250	C&K Part No.
1	SP	12	12.7	CKN6042-ND	6.09	4.87	3.86	3.05	A11205RNCQ
1	SP	12	38.1	CKC7001-ND	5.81	4.65	3.68	2.91	A11215RNCQ
2	SP	12	38.1	CKC7002-ND	5.81	4.65	3.68	2.91	A11215RNZQ
1	DP	6	38.1	CKC7003-ND	6.15	4.92	3.90	3.08	A20615RNCQ
2	DP	6	38.1	CKC7004-ND	6.15	4.92	3.90	3.08	A20615RNZQ
2	3P	4	9.53	CKN6043-ND	6.34	5.07	4.02	3.17	A30403RNZQ
1	3P	4	38.1	CKC7005-ND	6.05	4.85	3.84	3.03	A30415RNCQ
2	3P	4	38.1	CKC7006-ND	6.05	4.85	3.84	3.03	A30415RNZQ
1	4P	3	38.1	CKC7007-ND	6.65	5.32	4.22	3.33	A40315RNCQ
2	4P	3	38.1	CKC7008-ND	6.65	5.32	4.22	3.33	A40315RNZQ
Replacement HexNuts 3/8-32				CKN1828-ND	.79	.63	.50	.40	472706201

Coded Rotary Switches

RTA Series

Features: • PCB or hand soldering versions • Bushing mounting • Decimal and hexadecimal codes • Screwdriver slot or extended actuator

Applications:

- Appliances • Electronic alarm systems • Medical
- Building automation • HVAC air conditioning

Specifications:

- Contact Rating: 5Amps • Electrical Life: 10,000 operations

Materials:

- Contacts and Terminals: Nickel alloy, silver plated
- Hardware Included

Dim. in inches

Fig. 1

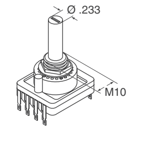

Fig. 2

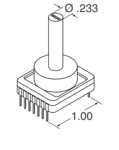

Fig.	Index	Poles	No. of Pos.	Actuator Length (mm)	Digi-Key Part No.	Price Each 1	25	100	250	C&K Part No.
1	30	SP	12	50	401-1563-ND	5.27	4.69	4.11	3.52	RTAC30112B12AD50S
		DP	6	50	401-1566-ND	5.27	4.69	4.11	3.52	RTAC30206B06AD50S
2	36	DP	5	25	401-1577-ND	5.34	4.75	4.16	3.56	RTAP36205B05SD25S

Half-inch Rotary Switches

M Series

Specifications:

• Contact Rating: Switch: 250mA maximum @125VAC or 28DC; Non-shorting contacts; Carry: 6Amps • Electrical Life: 10,000 make-and-break cycles at 150mA, 125VAC or 28DC • Operating Temperature: -30°C ~ 85°C Hardware Included

Dim. in inches

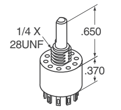

Fig. 1

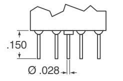

Fig. 2

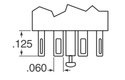

Fig.	Poles	No. of Pos.	Digi-Key Part No.	Price Each 1	25	100	250	C&K Part No.
1	SP	12	CKC7011-ND	9.52	8.22	6.92	6.28	MC00L1NCQD
	SP	10	CKN6044-ND	12.68	10.15	8.04	6.35	MA00L1NCQD
	SP	10	CKN6047-ND	12.68	10.15	8.04	6.35	ME00L1NCQD
	DP	6	CKC7012-ND	10.59	9.15	7.71	6.98	MD00L1NCQD
2	SP	12	CKC7009-ND	9.16	7.91	6.67	6.04	MC00L1NZQD
	SP	12	CKN6049-ND	9.16	7.91	6.67	6.04	MG00L1NZQD
	SP	10	CKN6048-ND	12.20	9.76	7.73	6.10	ME00L1NZQD
	SP	10	CKN6045-ND	12.20	9.76	7.73	6.10	MA00L1NZQD
	DP	6	CKC7010-ND	13.95	11.16	8.84	6.98	MD00L1NZQD
	DP	6	CKN6050-ND	13.95	11.16	8.84	6.98	MH00L1NZQD
	DP	5	CKN6046-ND	13.56	10.85	8.59	6.78	MB00L1NZQD
Replacement Stop Pins			CKN1750-ND	.29	.23	.19	.15	537100000

8mm/10mm DIP Coded Rotary Switches

Specifications: • Contact Ratings: 0.4VA maximum @ 20VAC or VDC maximum • Mechanical and Electrical Life: 20,000 position changes • Contact Resistance: 50mΩ maximum initial • Operating Temperature: -25°C ~ 85°C.

Materials: • Cover and Base: Glass filled nylon, flame retardant, heat stabilized (UL 94V-0) RoHS version PPS • Actuator: LCP (UL 94V-0), internal O-ring seal standard with all actuators • Movable Contacts: Copper alloy, with gold plate over nickel plate • Terminals: Copper alloy, with tin-lead alloy over nickel plate. RoHS Version: Copper alloy with gold plate over nickel plate. All terminals are insert molded.

Dim. in mm

Fig. 1 – Vertical

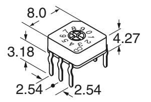

Fig. 2 – Right Angle

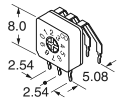

Fig. 3 – SMT

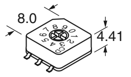

Fig. 4 – PC Mount

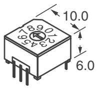

Fig. 5 – Right Angle

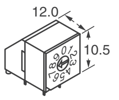

Fig. 6 – SMT

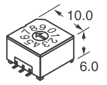

Actuator Options

A

Flush Actuator*

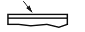

*Designed for
#0 Phillips screwdriver.

B

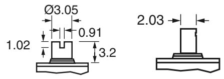

C

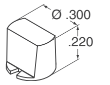

Fig.	Type	Actuator	Digi-Key Part No.	Price Each 1	25	100	250	C&K Part No.
8mm Rotary Dip - Vertical - Process Sealed								
1	BCD	A	CKN6157-ND	4.83	3.87	3.06	2.42	CD10RM0CB
		B	CKN6155-ND	5.54	4.44	3.52	2.78	CD10RL1CB
		C	CKN6152-ND	6.47	5.18	4.10	3.24	CD10RK1CB
	HEX	A	CKN6166-ND	5.30	4.25	3.36	2.66	CD16RM0CB
		B	CKN6164-ND	6.07	4.86	3.85	3.04	CD16RL1CB
		C	CKN6161-ND	7.00	5.61	4.44	3.51	CD16RK1CB
8mm Rotary Dip - Right Angle - Process Sealed								
2	BCD	A	CKN6156-ND	5.70	4.57	3.62	2.86	CD10RM0AB
		B	CKN6154-ND	6.39	5.12	4.05	3.20	CD10RL1AB
	HEX	A	CKN6165-ND	6.29	5.03	3.99	3.15	CD16RM0AB
		B	CKN6163-ND	6.98	5.58	4.42	3.49	CD16RL1AB
		C	CKN6160-ND	7.90	6.33	5.01	3.96	CD16RK1AB
8mm Rotary Dip - SMT - Process Sealed								
3	BCD	A	CKN6158-ND	5.44	4.35	3.45	2.72	CD10RM0SB
		C	CKN6153-ND	7.13	5.71	4.52	3.57	CD10RK1SB
		Flush	CKN6150-ND	5.44	4.35	3.45	2.72	CD08RM0SB
	HEX	Flush	CKN6167-ND	5.99	4.80	3.80	3.00	CD16RM0SB
	HEX	C	CKN6162-ND	7.69	6.16	4.88	3.85	CD16RK1SB
	HEX Comp	Flush	CKN6159-ND	5.99	4.80	3.80	3.00	CD16CM0SB
10mm Rotary Dip - PC Mount - Process Sealed								
4	BCD	Flush	CKN6172-ND	5.12	4.10	3.25	2.56	CRD10RM0CB
	BCD Comp	Flush	CKN6169-ND	5.12	4.10	3.25	2.56	CRD10CM0CB
	HEX	Flush	CKN6178-ND	5.62	4.50	3.56	2.81	CRD16RM0CB
	HEX Comp	Flush	CKN6175-ND	5.62	4.50	3.56	2.81	CRD16CM0CB
10mm Rotary Dip - Right Angle Mount - Process Sealed								
5	BCD	Flush	CKN6171-ND	6.05	4.85	3.84	3.03	CRD10RM0AB
	BCD Comp	Flush	CKN6168-ND	6.05	4.85	3.84	3.03	CRD10CM0AB
	HEX	Flush	CKN6177-ND	6.65	5.32	4.22	3.33	CRD16RM0AB
	HEX Comp	Flush	CKN6174-ND	6.52	5.22	4.13	3.26	CRD16CM0AB
10mm Rotary Dip - Surface Mount - Process Sealed								
6	BCD	Flush	CKN6173-ND	5.78	4.62	3.66	2.89	CRD10RM0SB
	BCD Comp	Flush	CKN6170-ND	5.78	4.62	3.66	2.89	CRD10CM0SB
	HEX	Flush	CKN6179-ND	6.34	5.07	4.02	3.17	CRD16RM0SB
	HEX	Flush	CKN6176-ND	6.34	5.07	4.02	3.17	CRD16CM0SB

C&K DIP Switches

SDA Low Profile

Features: • Low profile design saves space • High pressure contact does not require tape sealing **Specifications:** • Contact Rating: 25mA @ 24VDC or 100mA @ 50VDC • Mechanical and Electrical Life: 1,000 cycles at rated loads • Operating Temperature: -20°C ~ 85°C

BPA Side Actuated

Features: • High pressure contact system does not require tape seal **Specifications:** • Contact Rating: 100mA maximum @ 5VDC or 25mA maximum • Mechanical and Electrical Life: 1,000 cycles minimum @ 5VDC, 10mA @ 24 VDC • Operating Temperature: -20°C ~ 85°C

SP Single In-line

Features: • Thin Single In-line Packaging saves PCB space • Retention feature holds part to PCB prior to soldering • High pressure contact system does not require tape sealing **Specifications:** • Contact Rating: 100mA • Mechanical and Electrical Life: 1,000 cycles minimum • Operating Temperature: -20°C ~ 85°C

BD Standard Profile

Features: • Traditional full profile DIP switch • Extended actuator for easy actuation • Open bottom construction allows for solder washing without the need for tape seal **Specifications:** • Contact Rating: 100mA maximum • Mechanical and Electrical Life: 10,000 cycles at full load • Operating Temperature: -40°C ~ 85°C

BP Side Actuated

Features: • When actuated, contacts remain below top of switch • Ideal for applications where space is limited **Specifications:** • Contact Rating: 100mA maximum • Mechanical and Electrical Life: 2,000 cycles - gold contacts, 1,000 cycles - tin contacts • Operating Temperature: -20°C ~ 60°C

SD Low Profile

Features: • Low profile design saves space • Sealed with top tape **Specifications:** • Contact Rating: 100mA @ 50VDC maximum • Mechanical and Electrical Life: 2,000 cycles at full load • Operating Temperature: -20°C ~ 85°C

TDA Half-pitch Ultra-mini SMT

Specifications: • Contact Rating: 50VDC, 100mA • Mechanical and Electrical Life: 1,000 cycles • Operating Temperature: -20°C ~ 85°C

TDP Half-pitch Side Actuated

Features: • World's first ultra-miniature SMT half-pitch side-actuated DIP • Side actuation allows visual indication of on/off position in horizontal applications • Process sealed for surface mount soldering and washable processing **Specifications:** • Contact Rating: 25mA @ 24VDC or 100mA @ 50VDC • Mechanical and Electrical Life: 1,000 cycles • Operating Temperature: -20°C ~ 85°C

Fig. 1

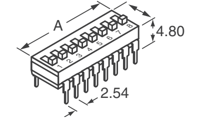

Fig. 2

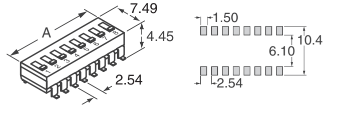

Fig. 3

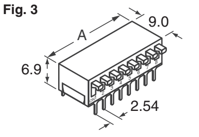

Fig. 4

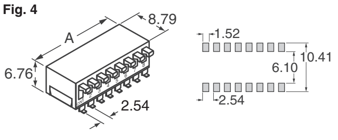

Fig. 5

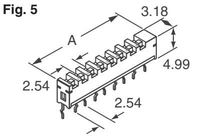

Fig. 6

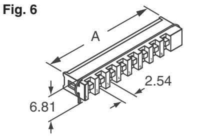

Fig. 7

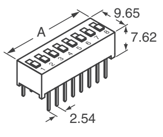

Fig. 8

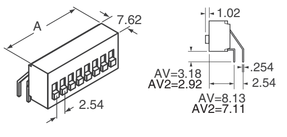

Fig. 9

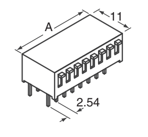

Fig. 10

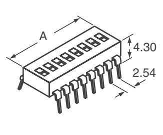

Fig. 11

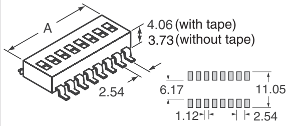

PCB Land Pattern

Fig. 12

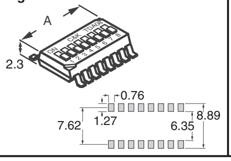

Fig. 13 ***NEW!***

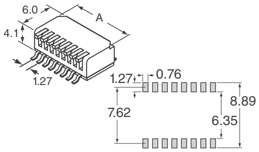

Fig.	No. of Pos.	Dim. A mm	Digi-Key Part No.	Price Each 1	25	100	C&K Part No.
DIP Top Slide with Extended Actuator – Unsealed							
1	2	7.06	CKN6055-ND	.95	.76	.60	SDA02H1BD
	3	9.60	CKN6061-ND	1.16	.93	.74	SDA03H1BD
	4	12.10	CKN6067-ND	1.22	.98	.78	SDA04H1BD
	5	14.68	CKN6073-ND	1.28	1.03	.82	SDA05H1BD
	6	17.18	CKN6079-ND	1.31	1.05	.84	SDA06H1BD
	7	19.76	CKN6085-ND	1.40	1.13	.89	SDA07H1BD
	8	22.26	CKN6091-ND	1.56	1.25	.99	SDA08H1BD
	9	24.84	CKN6096-ND	1.72	1.38	1.09	SDA09H1BD
	10	27.34	CKN6102-ND	1.84	1.48	1.17	SDA10H1BD
	12	32.50	CKN6108-ND	2.03	1.63	1.29	SDA12H1BD
DIP Top Slide with Flush Actuator – Unsealed							
1	2	7.06	CKN6052-ND	.95	.76	.60	SDA02H0BD
	3	9.60	CKN6058-ND	1.16	.93	.74	SDA03H0BD
	4	12.10	CKN6064-ND	1.22	.98	.78	SDA04H0BD
	6	17.18	CKN6076-ND	1.31	1.05	.84	SDA06H0BD
	7	19.76	CKN6082-ND	1.40	1.13	.89	SDA07H0BD
	8	22.26	CKN6088-ND	1.56	1.25	.99	SDA08H0BD
	10	27.34	CKN6099-ND	1.84	1.48	1.17	SDA10H0BD
	12	32.50	CKN6105-ND	2.03	1.63	1.29	SDA12H0BD
	2	7.06	CKN6051-ND	1.08	.87	.69	SDA02H0B
DIP Top Slide with Flush Actuator – Tape Sealed							
1	4	12.10	CKN6063-ND	1.34	1.08	.85	SDA04H0B
	5	14.68	CKN6069-ND	1.40	1.13	.89	SDA05H0B
	6	17.18	CKN6075-ND	1.47	1.18	.93	SDA06H0B
	8	22.26	CKN6087-ND	1.72	1.38	1.09	SDA08H0B
	9	24.84	CKN6093-ND	1.84	1.48	1.17	SDA09H0B
	10	27.34	CKN6098-ND	2.00	1.60	1.27	SDA10H0B
	12	32.50	CKN6104-ND	2.15	1.73	1.37	SDA12H0B
SMT Top Slide with Extended Actuator – Unsealed							
2	2	7.06	CKN6056-ND	1.37	1.10	.88	SDA02H1SBD
	3	9.60	CKN6062-ND	1.69	1.35	1.07	SDA03H1SBD
	4	12.10	CKN6068-ND	1.78	1.43	1.13	SDA04H1SBD
	5	14.68	CKN6074-ND	1.94	1.55	1.23	SDA05H1SBD
	6	17.18	CKN6080-ND	2.06	1.65	1.31	SDA06H1SBD
	7	19.76	CKN6086-ND	2.06	1.65	1.31	SDA07H1SBD
	8	22.26	CKN6092-ND	1.94	1.56	1.23	SDA08H1SBD
	9	24.84	CKN6097-ND	2.50	2.00	1.59	SDA09H1SBD
	10	27.34	CKN6103-ND	2.65	2.13	1.68	SDA10H1SBD
	12	32.50	CKN6109-ND	2.93	2.35	1.86	SDA12H1SBD
SMT Top Slide with Flush Actuator – Unsealed							
2	2	7.06	CKN6054-ND	1.37	1.10	.88	SDA02H0SBD
	3	9.60	CKN6060-ND	1.69	1.35	1.07	SDA03H0SBD
	4	12.10	CKN6066-ND	1.78	1.43	1.13	SDA04H0SBD
	5	14.68	CKN6072-ND	1.84	1.48	1.17	SDA05H0SBD
	6	17.18	CKN6078-ND	1.94	1.55	1.23	SDA06H0SBD
	7	19.76	CKN6084-ND	2.06	1.65	1.31	SDA07H0SBD
	8	22.26	CKN6090-ND	2.25	1.80	1.43	SDA08H0SBD
	9	24.84	CKN6095-ND	2.50	2.00	1.59	SDA09H0SBD
	10	27.34	CKN6101-ND	2.65	2.13	1.68	SDA10H0SBD
	12	32.50	CKN6107-ND	2.93	2.35	1.86	SDA12H0SBD
SMT Top Slide with Flush Actuator – Tape Sealed							
2	2	7.06	CKN6053-ND	1.51	1.21	.96	SDA02H0SB
	3	9.60	CKN6059-ND	1.84	1.48	1.17	SDA03H0SB
	4	12.10	CKN6065-ND	1.91	1.53	1.21	SDA04H0SB
	5	14.68	CKN6071-ND	2.00	1.60	1.27	SDA05H0SB
	6	17.18	CKN6077-ND	2.09	1.68	1.33	SDA06H0SB
	7	19.76	CKN6083-ND	2.18	1.75	1.39	SDA07H0SB
	8	22.26	CKN6089-ND	2.40	1.93	1.53	SDA08H0SB
	9	24.84	CKN6094-ND	2.65	2.13	1.68	SDA09H0SB
	10	27.34	CKN6100-ND	2.78	2.23	1.76	SDA10H0SB
	12	32.50	CKN6106-ND	3.06	2.45	1.94	SDA12H0SB
Side Actuated DIP – Unsealed							
3	2	7.11	CKN6138-ND	1.25	1.01	.80	BPA02B
	4	12.19	CKN6140-ND	1.53	1.23	.97	BPA04B
	5	14.68	CKN6142-ND	1.62	1.30	1.03	BPA05B
3	6	17.30	CKN6144-ND	1.81	1.45	1.15	BPA06B
	8	22.30	CKN6146-ND	1.87	1.50	1.19	BPA08B
	10	27.43	CKN6148-ND	2.12	1.70	1.35	BPA10B
SMT Side Actuated DIP – Unsealed							
4	2	7.11	CKN6139-ND	1.37	1.10	.87	BPA02SB
	4	12.19	CKN6141-ND	1.69	1.35	1.07	BPA04SB
	5	14.68	CKN6143-ND	1.78	1.43	1.13	BPA05SB
	6	17.30	CKN6145-ND	2.00	1.60	1.27	BPA06SB
	8	22.30	CKN6147-ND	2.06	1.65	1.31	BPA08SB
	10	27.43	CKN6149-ND	2.34	1.88	1.49	BPA10SB
Top Slide Single In-Line SIP – Unsealed							
5	2	7.58	CKN9137-ND	2.35	1.88	1.49	SP02B
	4	12.66	CKN9144-ND	2.65	2.13	1.68	SP04B
	6	17.74	CKN9146-ND	3.26	2.61	2.07	SP06B
	8	22.82	CKN9147-ND	3.78	3.03	2.40	SP08B
	10	27.9	CKN9148-ND	4.53	3.63	2.87	SP10B
Right Angle Single In-Line SIP –Unsealed							
6	2	7.58	CKN9149-ND	3.28	2.63	2.08	SP02AB
	4	12.66	CKN9150-ND	3.68	2.95	2.34	SP04AB
	6	17.74	CKN9152-ND	6.02	4.82	3.81	SP06AB
	8	22.82	CKN9145-ND	4.62	3.70	2.93	SP08AB
	10	27.9	CKN9143-ND	5.00	4.00	3.17	SP10AB
Top Slide, Extended Actuator – Unsealed							
7	1	4.57	CKN6012-ND	1.12	.90	.72	BD01
	2	7.11	CKN3001-ND	1.62	1.30	1.03	BD02
	3	9.65	CKN3002-ND	1.62	1.30	1.03	BD03
	4	12.19	CKN3003-ND	1.78	1.43	1.13	BD04
	5	14.73	CKN3004-ND	1.81	1.45	1.15	BD05
	6	17.27	CKN3005-ND	1.87	1.50	1.19	BD06
	7	19.81	CKN3006-ND	1.96	1.57	1.25	BD07
	8	22.35	CKN3007-ND	2.02	1.62	1.28	BD08
	9	24.89	CKN3008-ND	2.11	1.69	1.34	BD09
	10	27.43	CKN3009-ND	2.17	1.74	1.38	BD10
	12	32.51	CKN3010-ND	2.33	1.86	1.48	BD12
Right Angle Slide, Extended Actuator – Unsealed							
8	2	7.11	CKN3011-ND	2.81	2.25	1.78	BD02AV
	2	7.11	CKN6013-ND	2.81	2.25	1.78	BD02AV2
	3	9.65	CKN3012-ND	2.81	2.25	1.78	BD03AV
	4	12.19	CKN3013-ND	2.96	2.38	1.88	BD04AV
	4	12.19	CKN6014-ND	2.96	2.38	1.88	BD04AV2
	5	14.73	CKN3014-ND	3.00	2.40	1.90	BD05AV
	5	14.73	CKN6015-ND	3.00	2.40	1.90	BD05AV2
	6	17.27	CKN3015-ND	3.09	2.48	1.96	BD06AV
	6	17.27	CKN6016-ND	3.09	2.48	1.96	BD06AV2
	7	19.81	CKN3016-ND	3.15	2.53	2.00	BD07AV
	8	22.35	CKN3017-ND	3.22	2.58	2.04	BD08AV
	8	22.35	CKN6017-ND	3.22	2.58	2.04	BD08AV2
	9	24.89	CKN3018-ND	3.31	2.65	2.10	BD09AV
	10	27.43	CKN3019-ND	3.37	2.70	2.14	BD10AV
	12	32.51	CKN3020-ND	3.53	2.83	2.24	BD12AV
Side Actuated – Tape Sealed							
9	2	7.77	CKN3021-ND	1.46	1.17	.93	BP02YT
	2	7.77	CKN6020-ND‡	2.07	1.66	1.31	BP02KT
	3	10.31	CKN3022-ND	1.61	1.29	1.03	BP03YT
	4	12.85	CKN3023-ND	1.64	1.32	1.04	BP04YT
	4	12.85	CKN6021-ND‡	2.25	1.80	1.43	BP04KT
	5	15.39	CKN3024-ND	1.73	1.39	1.10	BP05YT
	6	17.93	CKN3025-ND	1.91	1.53	1.21	BP06YT
	8	23.00	CKN3027-ND	1.97	1.58	1.25	BP08YT
	8	23.00	CKN6022-ND‡	2.58	2.07	1.64	BP08KT
	10	28.09	CKN3028-ND	2.21	1.77	1.40	BP10YT
	12	33.17	CKN3029-ND	2.48	1.99	1.57	BP12YT
Side Actuated – Unsealed							
9	1	5.23	CKN6023-ND‡	1.67	1.34	1.06	BP01KE
	1	5.23	CKN6024-ND	1.07	.86	.69	BP01YE
	2	7.77	CKN6025-ND	1.29	1.03	.82	BP02YE
	3	10.31	CKN6026-ND‡	2.04	1.64	1.30	BP03KE
	4	12.85	CKN6027-ND‡	2.07	1.66	1.32	BP04KE
	5	15.39	CKN6028-ND‡	2.16	1.74	1.37	BP05KE
	6	17.93	CKN6029-ND	1.74	1.39	1.11	BP06YE
	8	23.00	CKN6031-ND	1.80	1.44	1.14	BP08YE
Low Profile Auto Insert – Tape Sealed							
10	2	6.55	CKN6110-ND	1.19	.96	.76	SD02H0B
	3	9.09	CKN6113-ND	1.24	1.00	.79	SD03H0B
	4	11.63	CKN6115-ND	1.50	1.20	.95	SD04H0B
	5	14.17	CKN6118-ND	1.56	1.25	.99	SD05H0B
	6	16.71	CKN6120-ND	1.62	1.30	1.03	SD06H0B
	7	19.25	CKN6122-ND	1.72	1.38	1.09	SD07H0B
	8	21.79	CKN6125-ND	1.91	1.53	1.21	SD08H0B
	9	24.33	CKN6131-ND	2.06	1.65	1.31	SD09H0B
	10	26.87	CKN6133-ND	2.22	1.78	1.41	SD10H0B
	12	31.95	CKN6136-ND	2.40	1.93	1.53	SD12H0B
Low Profile Auto Insert – Flush Actuator – Tape Sealed							
11	8	21.79	CKN6127-ND†	2.50	2.00	1.59	SD08H0SBD
	8	21.79	CKN6128CT-ND	2.69	2.49	2.28	SD08H0SBR
	8	21.79	CKN6128TR-ND	1240.50/1,000			SD08H0SBR
Low Profile Auto Insert – Extended Actuator –Tape Sealed							
11	2	6.55	CKN6112-ND	1.67	1.34	1.06	SD02H1SB
	4	11.63	CKN6117-ND	1.32	1.06	.84	SD04H1SB
	7	19.25	CKN6124-ND	2.44	1.95	1.55	SD07H1SB
	8	21.79	CKN6129-ND	2.65	2.13	1.68	SD08H1SB
	8	21.79	CKN6130-ND†	2.50	2.00	1.59	SD08H1SBD
	10	26.87	CKN6135-ND	3.09	2.48	1.96	SD10H1SB
Low Profile SMD – Tape Sealed							
11	2	6.55	CKN6111-ND	1.67	1.34	1.06	SD02H0SB
	3	9.09	CKN6114-ND	1.75	1.41	1.11	SD03H0SB
	4	11.63	CKN6116-ND	2.12	1.70	1.35	SD04H0SB
	5	14.17	CKN6119-ND	2.22	1.78	1.41	SD05H0SB
	6	16.71	CKN6121-ND	2.31	1.85	1.47	SD06H0SB
	7	19.25	CKN6123-ND	1.47	1.18	.94	SD07H0SB
	8	21.79	CKN6126-ND	2.65	2.13	1.68	SD08H0SB
	9	24.33	CKN6132-ND	2.93	2.35	1.86	SD09H0SB
	10	26.87	CKN6134-ND	3.09	2.48	1.96	SD10H0SB
	12	31.95	CKN6137-ND	3.40	2.73	2.16	SD12H0SB
Half Pitch SMD –Tape Sealed							
12	2	3.67	CKN9064-ND	2.12	1.70	1.35	TDA02H0SB1
	4	6.21	CKN9065-ND	2.24	1.80	1.42	TDA04H0SB1
	6	8.75	CKN9066-ND	2.67	2.14	1.69	TDA06H0SB1
	8	11.29	CKN9067-ND	3.09	2.48	1.96	TDA08H0SB1
	10	13.83	CKN9068-ND	4.56	3.65	2.89	TDA10H0SB1
NEW! SMD Half Pitch Side Actuated – Tape Sealed NEW!							
13	2	3.67	CKN9419-ND	2.07	1.66	1.31	TDP02H0SBD1
	4	6.21	CKN9420-ND	2.35	1.88	1.50	TDP04H0SBD1
	8	11.29	CKN9421-ND	3.56	2.85	2.26	TDP08H0SBD1
NEW! SMD Half Pitch Side Actuated NEW!							
13	2	3.67	CKN9422-ND	2.21	1.77	1.40	TDP02H0SB1
	4	6.21	CKN9423-ND	2.49	2.00	1.58	TDP04H0SB1
	8	11.29	CKN9424-ND	3.60	2.88	2.28	TDP08H0SB1
NEW! SMD Half Pitch Side Actuated Extended – Tape Sealed NEW!							
13	2	3.67	CKN9425-ND	2.07	1.66	1.32	TDP02H1SBD1
	4	6.21	CKN9426-ND	2.35	1.89	1.49	TDP04H1SBD1
	8	11.29	CKN9427-ND	3.56	2.85	2.26	TDP08H1SBD1

‡ Gold Contacts † No Epoxy Seal

NKK SWITCHES 10mm Rotary DIP Switches

Specifications: • Switching Rating: 100mA @ 5VDC; Non-switching Rating: 100mA @ 50VDC; • Contact Resistance: 100mΩ maximum • Mechanical Life: 10,000 detent operations minimum • Electrical Life: 10,000 detent operations minimum **Materials and Finishes:** • Actuators: Glass fiber reinforced polyamide (UL94V-0) • Movable Contacts: Copper alloy with gold plating • Stationary Contacts: Phosphor bronze with gold plating • Terminals: Phosphor bronze with gold plating **Operating Temperature Range:** -25°C ~ 85°C *Note:* These devices are not process sealed. Hand clean locally using alcohol based solution.

Thru-Hole

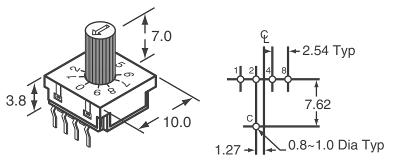

Right Angle

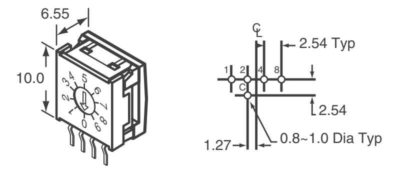

SMT

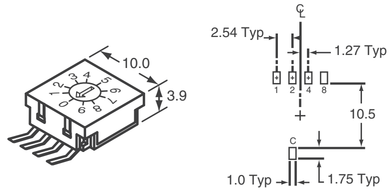

Code	Termination	Actuator	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
BCD	SMT	Flush	360-2211-1-ND†	3.90	3.12	2.47	FR02FR10P-R
	SMT	Flush	360-2211-2-ND‡	942.50/500			FR02FR10P-R
	Thru-Hole	Flush	360-2198-ND	3.48	2.16	1.96	FR01FR10P-S
	Thru-Hole	Extended	360-2206-ND	3.48	2.16	1.96	FR01KR10P-S
	Right Angle	Flush	360-2197-ND	3.77	2.34	2.12	FR01FR10H-S
	Right Angle	Extended	360-2205-ND	3.77	2.34	2.12	FR01KR10H-S
BCD Comp	SMT	Flush	360-2209-1-ND†	3.90	3.12	2.47	FR02FC10P-R
	SMT	Flush	360-2209-2-ND‡	910.00/500			FR02FC10P-R
	Thru-Hole	Flush	360-2194-ND	3.48	2.16	1.96	FR01FC10P-S
	Thru-Hole	Extended	360-2202-ND	3.48	2.16	1.96	FR01KC10P-S
	Right Angle	Flush	360-2193-ND	3.77	2.34	2.12	FR01FC10H-S
	Right Angle	Extended	360-2201-ND	3.77	2.34	2.12	FR01KC10H-S

Code	Termination	Actuator	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Hex	SMT	Flush	360-2212-1-ND†	3.90	3.12	2.47	FR02FR16P-R
	SMT	Flush	360-2212-2-ND‡	910.00/500			FR02FR16P-R
	Thru-Hole	Flush	360-2200-ND	3.48	2.16	1.96	FR01FR16P-S
	Thru-Hole	Extended	360-2208-ND	3.48	2.16	1.96	FR01KR16P-S
	Right Angle	Flush	360-2199-ND	3.77	2.34	2.12	FR01FR16H-S
	Right Angle	Extended	360-2207-ND	3.77	2.34	2.12	FR01KR16H-S
Hex Comp	SMT	Flush	360-2210-1-ND†	3.90	3.12	2.47	FR02FC16P-R
	SMT	Flush	360-2210-2-ND‡	910.00/500			FR02FC16P-R
	Thru-Hole	Flush	360-2196-ND	3.48	2.16	1.96	FR01FC16P-S
	Thru-Hole	Extended	360-2204-ND	3.48	2.16	1.96	FR01KC16P-S
	Right Angle	Flush	360-2195-ND	3.77	2.34	2.12	FR01FC16H-S
	Right Angle	Extended	360-2203-ND	3.77	2.34	2.12	FR01KC16H-S
Snap-On Knob for Flush Actuators			360-2246-ND	1.32	.73	.62	AT4180

† Cut Tape ‡ Tape and Reel

COPAL ELECTRONICS DIP Switches

CES Series

Features: • Excellent contact stability by twin gold-plated contacts • Fine click action Specifications: • Operating Temperature: -40°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Maximum Contact Resistance: 50mΩ

CHS Series

Features: • Meets EIAJ SOP standard outline dimensions (B type) • Low profile design of 2.5mm • Excellent contact stability by twin gold-plated contact Specifications: • Operating Temperature: -40°C ~ 85°C • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Maximum Contact Resistance: 50mΩ

CHP Series

Features: • High-reliability Specifications: • Operating Temperature: -40°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Maximum Contact Resistance: 50mΩ

CVS Series

Features: • Low profile design of 1.45mm • Fine pitch of 1mm • Easy motion with knob height of 0.2mm Specifications: • Operating Temperature: -40°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Maximum Contact Resistance: 200mΩ

Fig. 1 — CES Series

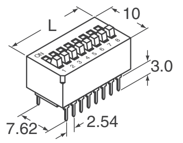

Fig. 2 — CHS Series, J-Lead Type

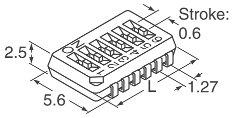

Fig. 3 — CHS Series, Gull Wing Type

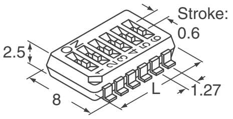

Fig. 4 — CHP Series, J-Lead Type

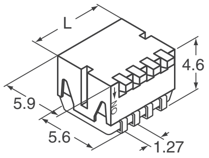

Fig. 5 — CHP Series, Gull Wing Type

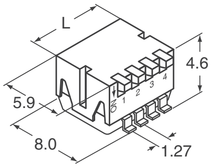

Fig. 6 — CVS Series, Gull Wing Type

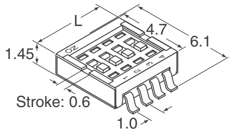

Fig.	No. of Pos.	Dim. L mm	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Copal Electronics Part No.
CES Series, Through-Hole Type									
1	4	12.74	563-1000-5-ND†	2.33	1.40	1.23	—	—	CES-0402MC
	8	22.9	563-1002-5-ND†	2.85	1.75	1.52	—	—	CES-0802MC
CHS Series, J-Lead Type - Half Pitch									
2	1	2.5	563-1003-1-ND	1.51	.98	.74	1,000	648.00	CHS-01TA
	2	4.1	563-1005-1-ND	2.95	1.90	1.44	500	632.00	CHS-02TA
	4	6.6	563-1007-1-ND	2.43	1.62	1.30	500	607.50	CHS-04TA
	6	9.2	563-1009-1-ND	3.11	2.08	1.66	500	751.50	CHS-06TA
	8	11.7	563-1011-1-ND	3.30	2.21	1.77	500	798.50	CHS-08TA
	10	14.3	563-1013-1-ND	3.63	2.42	1.94	500	877.00	CHS-10TA
CHS Series, Gull Wing Type - Half Pitch									
3	1	2.5	563-1004-1-ND	1.51	.98	.74	1,000	648.00	CHS-01TB
	2	4.1	563-1006-1-ND	2.95	1.90	1.44	500	632.00	CHS-02TB
	4	6.6	563-1008-1-ND	2.72	1.82	1.46	500	680.50	CHS-04TB
	6	9.2	563-1010-1-ND	3.11	2.08	1.66	500	751.50	CHS-06TB
	8	11.7	563-1012-1-ND	3.30	2.21	1.77	500	798.50	CHS-08TB
	10	14.3	563-1014-1-ND	3.63	2.42	1.94	500	877.00	CHS-10TB
CHP Series, J-Lead Type - Half Pitch									
4	2	4.6	563-1015-1-ND	2.95	1.90	1.44	500	632.00	CHP-021TA
	8	12.2	563-1019-1-ND	3.30	2.21	1.77	500	798.50	CHP-081TA
CHP Series, Gull Wing Type									
5	4	7.1	563-1018-1-ND	2.72	1.82	1.46	500	680.50	CHP-041TB
	8	12.2	563-1020-1-ND	3.30	2.21	1.77	—	—	CHP-081TB
CVS Series, Gull Wing Type									
6	4	5	563-1041-1-ND	3.56	2.38	1.91	2,000	1634.00/M	CVS-04TB
	8	9	563-1042-1-ND	4.63	3.09	2.48	2,000	2085.00/M	CVS-08TB

† Bulk ‡ For Tape and Reel part number, change 1-ND to 2-ND.

COPAL ELECTRONICS

CUS Series – Low Profile Compact Slide Switches

Features: • Low profile version of 1.4mm **Specifications:** • Operating Temperature: -20°C ~ 70°C • Switching Current: 300mA @ 4VDC • Insulation Resistance: 100MΩ min. • Contact Resistance: 70mΩ max. **Applications:** • Mobile stereos • LCD TVs • Camcorders

Dim. in mm

Fig. 1

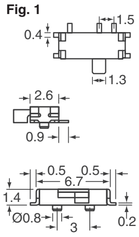

Fig. 2

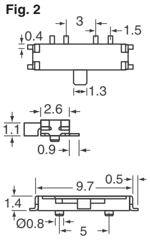

Fig. 3

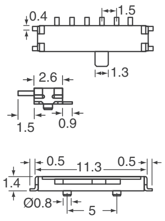

Fig. 4

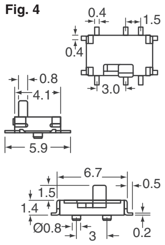

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel ‡ Qty.	Pricing	Copal Electronics Part No.
1	SPDT, Gull Wing	563-1102-1-ND	1.16	.75	.54	2,500	423.00/M	CUS-12TB
2	SP3T, Gull Wing	563-1103-1-ND	1.24	.80	.58	2,500	454.00/M	CUS-13TB
3	SP4T, Gull Wing	563-1104-1-ND	1.56	1.00	.72	2,500	569.00/M	CUS-14TB
4	DPDT, Gull Wing	563-1105-1-ND	1.39	.90	.65	1,400	508.00/M	CUS-22TB

‡ For Tape and Reel part number, change 1-ND to 2-ND.

NEW! Super-Miniature Slide Switches

Features: • High contact reliability • Washable structure • Ideal for extremely small currents • Designed for PC boards • Quality touch • UL approved **Specifications:** • Rating: Maximum of 50mA @ 48VAC/DC • Initial Contact Resistance: 50mΩ maximum • Electrical Life: 10,000 cycles at maximum rating • Operating temperature range: -20°C ~ 85°C

Dim. in mm

Fig. 1

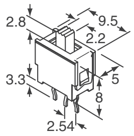

Fig. 2

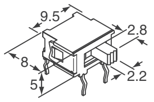

Fig. 3

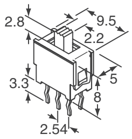

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Copal Electronics Part No.
1	SPDT ON - ON	563-1151-ND	2.58	2.40	2.17	ASE1D-2M-10-Z
	SPDT ON - OFF - ON	563-1153-ND	2.58	2.40	2.17	ASE1E-2M-10-Z
2	SPDT ON - ON	563-1152-ND	2.87	2.67	2.41	ASE1D-5M-10-Z
	SPDT ON - OFF - ON	563-1154-ND	2.87	2.67	2.41	ASE1E-5M-10-Z
3	DPDT - ON - ON	563-1155-ND	3.37	3.13	2.83	ASE2D-2M-10-Z
	DPDT ON - OFF - ON	563-1156-ND	3.37	3.13	2.83	ASE2E-2M-10-Z

NEW! Hyper-Miniature Toggle Switches

Features: • These switches are of hyper-compact type • Immersion cleaning is possible after soldering • Terminal mounting is at 0.1 inch pitches • Independent detent mechanism provides light feel operability • Long-term stability is assured by the clip contact **Specifications:** • Rating: 28VDC and 0.4VA maximum • Initial Contact Resistance: 100mΩ maximum • Electrical Life: 10,000 cycles at maximum rating • Operating Temperature Range: -40°C ~ 85°C

Dim. in mm

Fig. 1

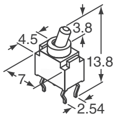

Fig. 2

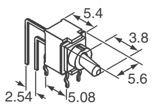

Fig. 3

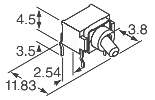

Fig. 4

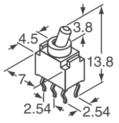

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Copal Electronics Part No.
1	SPDT ON - ON	563-1142-ND	4.28	3.98	3.60	FT1D-2M-Z
	SPDT ON - OFF - ON	563-1145-ND	4.28	3.98	3.60	FT1E-2M-Z
2	SPDT ON - ON	563-1143-ND	4.41	4.10	3.71	FT1D-4M-Z
	SPDT ON - OFF - ON	563-1146-ND	4.41	4.10	3.71	FT1E-4M-Z
3	SPDT ON - ON	563-1144-ND	4.41	4.10	3.71	FT1D-5M-Z
	SPDT ON - OFF - ON	563-1147-ND	4.41	4.10	3.71	FT1E-5M-Z
	SPDT ON - ON (MOM)	563-1148-ND	4.41	4.10	3.71	FT1F-5M-Z
4	DPDT ON - ON	563-1149-ND	5.03	4.68	4.23	FT2D-2M-Z
	DPDT ON - OFF - ON	563-1150-ND	5.03	4.68	4.23	FT2E-2M-Z

Slide Switches

CJS Series Features: • Easy to set slider with line marking • Compatible with most automatic pick and place machinery • Compact and space saving SMD type **Specifications:** • Operating Temperature: -40°C ~ 85°C • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Maximum Contact Resistance: 100mΩ

CRFS Series Features: • Can cover the DC - 1GHz frequency spectrum • Gold-plated contact provides excellent reliability **Specifications:** • Operating Temperature: -40°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 12VDC @ 100mA • Maximum Contact Resistance: 70mΩ

Dim. in mm

Fig. 1
CJS-120xTA Series

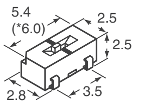

*6.0: CJS-1201TA

Fig. 2
CJS-120xTB Series

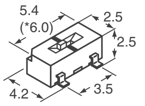

*6.0: CJS-1201TB

Fig. 3
CRFS-2202W

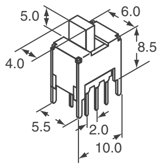

A.

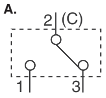

B.

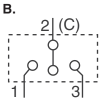

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Copal Electronics Part No.
			CJS Series					
1A	SPDT, J-Lead	563-1021-1-ND	1.10	.71	.54	1,000	470.00	CJS-1200TA
1B	SPDT, J-Lead with Neutral Detent	563-1023-1-ND	1.42	.92	.69	1,000	608.00	CJS-1201TA
2A	SPDT, Gull Wing	563-1022-1-ND	1.10	.71	.54	1,000	470.00	CJS-1200TB
2B	SPDT, Gull Wing with Neutral Detent	563-1024-1-ND	1.42	.92	.69	1,000	608.00	CJS-1201TB
			CRFS Series					
3	DPDT	563-1025-ND†	3.51	2.18	1.98	—	—	CRFS-2202W

† Bulk ‡ For Tape and Reel part number, change 1-ND to 2-ND.

CSS Series – Compact Slide Switches

Features: • Low Profile • Self-return type available **Specifications:** • Operating Temperature: -20°C ~ 70°C • Switching Current: 100mA @ 12VDC • Contact Resistance: 70mΩ maximum • Insulation Resistance: 100MΩ maximum **Applications:** • Mobile stereo • LCD TV • Camcorder

Dim. in mm

Fig. 1

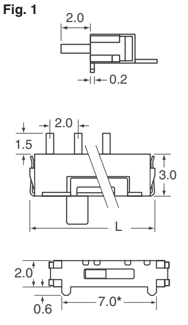

* 10.9mm CSS-13xx

Fig. 2

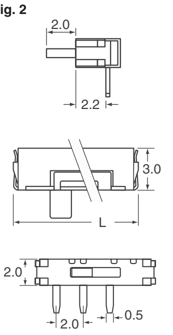

Fig. 3

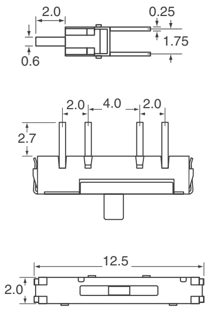

Fig.	Description	Dim. L mm	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel ‡ Qty.	Pricing	Copal Electronics Part No.
1	SPDT, Gull Wing	8.85	563-1091-1-ND	.87	.56	.43	1,900	497.00/M	CSS-1210TB
	SPDT, Momentary, Gull Wing	8.85	563-1093-1-ND	.95	.61	.46	1,900	540.00/M	CSS-1211TB
	SP3T, Gull Wing	12.5	563-1095-1-ND	.91	.59	.45	1,900	518.00/M	CSS-1310TB
	SP3T, Momentary (1 pos.) Gull Wing	12.5	563-1097-1-ND	1.10	.71	.54	1,900	626.00/M	CSS-1311TB
	SP3T, Momentary, Gull Wing	12.5	563-1099-1-ND	1.10	.71	.54	1,900	626.00/M	CSS-1312TB
2	SPDT, Through-Hole	8.85	563-1090-ND†	.73	.68	.61	—	—	CSS-1210MC
	SPDT, Momentary, Through-Hole	8.85	563-1092-ND†	.79	.73	.66	—	—	CSS-1211MC
	SP3T, Through-Hole	12.5	563-1094-ND†	.76	.71	.64	—	—	CSS-1310MC
	SP3T, Momentary (1 pos.) Through-Hole	12.5	563-1096-ND†	.91	.85	.77	—	—	CSS-1311MC
	SP3T, Momentary, Through-Hole	12.5	563-1098-ND†	.91	.85	.77	—	—	CSS-1312MC
3	SP3T, Through-Hole	—	563-1100-ND†	.73	.68	.61	—	—	CSS-1300MC
	SP3T, Momentary, Through-Hole	—	563-1101-ND†	.91	.85	.77	—	—	CSS-1302MC

† Bulk ‡ For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

COPAL ELECTRONICS

Surface Mount Slide Switches CAS Series

Electrical Characteristics:

- **Contact Rating:** Non-switching DC50 V 100mA, Switching DC6V, 100mA DC24 V, 25mA, Minimum DC20mV 1µa,
- **Contact Resistance:** 50mΩ maximum (1.5mA, 1kHz, 20mV)
- **Insulation Resistance:** 1000MΩ (DC 100V) minimum
- **Dielectric Strength:** AC500 V, 50Hz, 60s

Fig.	No. of Poles	Description	Digi-Key Part No.	Cut Tape Price Each 10	100	Tape & Reel Pricing* 1,000	Copal Part No.
1A	2	SPDT, J Hook	CAS120JCT-ND	1.98	1.43	660.00	CAS-120TA
1B	2	SPDT, Gullwing	CAS120GCT-ND	1.76	1.27	585.00	CAS-120TB
2A	2	DPDT, J Hook	CAS220JCT-ND	3.15	2.28	1134.00	CAS-220TA
2B	2	DPDT, Gullwing	CAS220GCT-ND	3.78	2.73	1134.00	CAS-220TB
2C	2	SPDT 2 pos. J Hook	CASD20JCT-ND	3.15	2.28	1134.00	CAS-D20TA
2D	2	SPDT 2 pos. Gullwing	CASD20GCT-ND	3.15	2.28	1134.00	CAS-D20TB

* For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

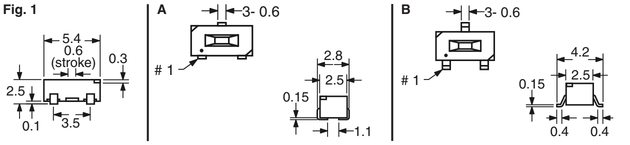

Fig. 2

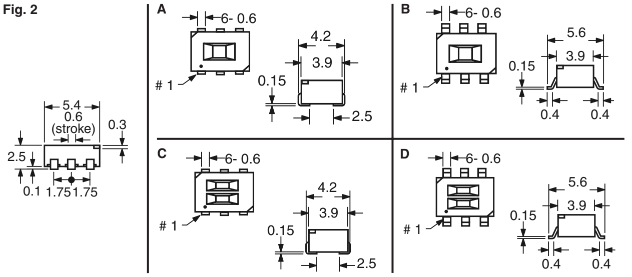

Rotary Switches

CS-32 Series **Features:** • Optimum for high density board mounting applications • Compatible with most automatic pick and place machinery • Protection against dust and washable after soldering **Specifications:** • Operating Temperature: -40°C ~ 85°C • Stepping Angle 250° ±15° • Maximum Contact Rating: 0.5VA or 16V @ 100mA • Maximum Contact Resistance: 2Ω

CS-4 Series **Features:** • Optimum for high density board mounting applications • Compatible with reflow and wave soldering • Protection against dust and washable after soldering • Excellent reliability due to precious metal contact **Specifications:** • Operating Temperature: -25°C ~ 70°C • Maximum Contact Rating: 0.5VA or 16V @ 100mA • Maximum Contact Resistance: 100mΩ

S-1000A/2000A Series **Features:** • Pin compatible with conventional DIP switches **Specifications:** • Operating Temperature: -25°C ~ 70°C • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 5VDC @ 100mA • Maximum Contact Resistance: 100mΩ

S-8000 Series **Features:** • 3 bits 8 position type • Protection against dust and washable after soldering • DIP pin configuration: 2.54mm pitch **Specifications:** • Operating Temperature: -25°C ~ 70°C • Stepping Angle: 45° • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 5VDC @ 100mA • Maximum Contact Resistance: 100mΩ

SD-1000/2000 Series **Features:** • Fine click with metallic spring • Low profile of 3.9mm makes it perfect for high density board mounting applications • Gold-plated contact provides excellent reliability **Specifications:** • Operating Temperature: -25°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 5VDC @ 100mA • Maximum Contact Resistance: 100mΩ

SS-10/S-2050 Series **Features:** • Compact-size DIP pin configuration • Protection against dust and washable after soldering • Self-cleaning mechanism **Specifications:** • Operating Temperature: -25°C ~ 70°C • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 5VDC @ 100mA • Maximum Contact Resistance: 100mΩ

Fig. 1

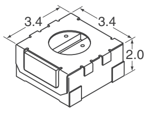

J-Lead version shown

Fig. 2

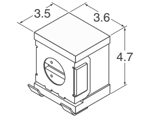

J-Lead version shown

Fig. 3

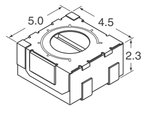

J-Lead version shown

Fig. 4

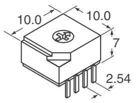

Fig. 5

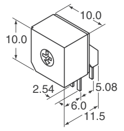

Fig. 6

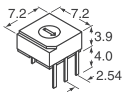

Fig. 7

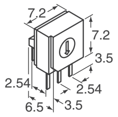

Fig. 8

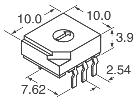

Fig. 9

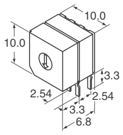

Fig. 10

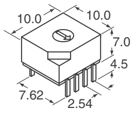

Fig. 11

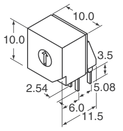

Fig.	No. of Contacts	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Pricing 500	Copal Electronics Part No.
		CS-32 Series						
1	2	SPDT, Gull Wing	563-1028-1-ND	3.10	2.00	1.51	664.00	CS-32-12ZETB
2	2	SPDT, J-Lead	563-1029-1-ND	3.11	2.08	1.66	751.50	CS-32-12ZETG
	2	SPDT, Gull Wing	563-1030-1-ND	3.11	2.08	1.66	751.50	CS-32-12ZETH
		CS-4 Series, J-Lead Type						
3	2	SPDT, Non-shorting	563-1031-1-ND	3.02	1.95	1.47	648.00	CS-4-12XTA
	2	SPDT, Non-shorting with Detent	563-1033-1-ND	3.02	1.95	1.47	648.00	CS-4-12YTA
	3	SP3T, Non-shorting	563-1035-1-ND	2.75	1.84	1.47	688.50	CS-4-13NTA
	4	SP4T, Non-shorting	563-1037-1-ND	3.24	2.16	1.73	783.00	CS-4-14NTA
	2	DPDT, Non-shorting with Detent	563-1039-1-ND	3.89	2.60	2.08	939.50	CS-4-22YTA
		CS-4 Series, Gull Wing Type						
3	2	SPDT, Non-shorting	563-1032-1-ND	3.02	1.95	1.47	648.00	CS-4-12XTB
	3	SP3T, Non-shorting	563-1036-1-ND	2.75	1.84	1.47	688.50	CS-4-13NTB
	4	SP4T, Non-shorting	563-1038-1-ND	3.24	2.16	1.73	783.00	CS-4-14NTB
	2	DPDT, Non-shorting with Detent	563-1040-1-ND	3.89	2.60	2.08	939.50	CS-4-22YTB

† For Tape and Reel part number, change 1-ND to 2-ND.

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	25	100	Copal Electronics Part No.
		S-1000A/2000A Series					
4	16	Real Hexadecimal	563-1043-ND	2.66	1.67	1.53	S-1010A
	16	Hexadecimal Complementary	563-1045-ND	2.66	1.67	1.53	S-1030A
	16	Real Hexadecimal	563-1047-ND*	3.33	2.08	1.91	S-1110A
	10	Real BCD	563-1048-ND	2.66	1.67	1.53	S-2010A
5	16	Real Hexadecimal	563-1044-ND	2.72	1.71	1.56	S-1011A
	16	Hexadecimal Complementary	563-1046-ND	2.72	1.71	1.56	S-1031A
	10	Real BCD	563-1049-ND	2.72	1.71	1.56	S-2011A
	10	BCD Complementary	563-1051-ND	2.72	1.71	1.56	S-2031A
		S-8000 Series					
6	8	Real BCO	563-1053-ND	4.13	2.57	2.33	S-8010
	8	BCO Complementary	563-1055-ND	4.13	2.57	2.33	S-8030
7	8	Real BCO	563-1054-ND	4.13	2.57	2.33	S-8011
	8	BCO Complementary	563-1056-ND	4.13	2.57	2.33	S-8031
	8	BCO Complementary	563-1060-ND*	3.85	2.40	2.17	S-8131
		SD-1000/2000 Series					
8	16	Real Hexadecimal	563-1061-ND	2.85	1.76	1.55	SD-1010
	16	Hexadecimal Complementary	563-1063-ND	2.85	1.76	1.55	SD-1030
	16	Real Hexadecimal	563-1065-ND*	3.40	2.10	1.85	SD-1110
	10	Real BCD	563-1069-ND	2.85	1.76	1.55	SD-2010
9	16	Real Hexadecimal	563-1062-ND	3.18	1.97	1.73	SD-1011
	16	Real Hexadecimal	563-1066-ND*	3.60	2.22	1.96	SD-1111
	10	Real BCD	563-1070-ND	3.18	1.97	1.73	SD-2011
		SS-10 Series					
10	5	SP5T, Shorting	563-1077-ND	3.44	2.13	1.87	SS-10-15SPE
	5	SP5T, Shorting	563-1078-ND*	4.04	2.51	2.28	SS-10-15SP-LE
	6	SP6T, Non-shorting	563-1079-ND	3.44	2.13	1.87	SS-10-16NPE
	6	SP6T, Non-shorting	563-1080-ND*	4.04	2.51	2.28	SS-10-16NP-LE
	3	DP3T, Non-shorting	563-1083-ND	4.28	2.66	2.41	SS-10-23NPE
	3	DP3T, Non-shorting	563-1084-ND*	4.68	2.93	2.68	SS-10-23NP-LE
		S-2050 Series					
10	4	SP4T	563-1085-ND	4.42	2.85	2.53	S-2050
	4	SP4T	563-1087-ND*	4.99	3.12	2.85	S-2150
11	4	SP4T	563-1086-ND	4.42	2.85	2.53	S-2051
	4	SP4T	563-1088-ND*	4.99	3.12	2.85	S-2151
Knob for S-1000A, S-2000A and SS-10 Series			563-1089-ND	1.44	.80	.69	K1

* Has knob with extended shaft.

DIP Switches

RoHS COMPLIANT

Grayhill's unique spring and ball contact design offers unparalleled reliability compared to conventional wiping contact designs. When actuated the ball rests between two contacts allowing multiple points of contact while the spring compression is at maximum pressure. Temperature, humidity and vibration have minimal affect on this design.

Specifications: • **Mechanical Life per switch position:** 76/78 – 20,000; 90B – 5,000 • **Contact Resistance:** Initially ≤ 30mΩ • **Insulation Resistance:** 5,000MΩ • **Dielectric Strength:** 750V • **Current Carry:** 3A • **Switch Capacitance:** 2pF • **Operating Temperature:** -40°C ~ 85°C • **SMT Processing Temperature (90HBW, 90HBJ):** 260°C Maximum

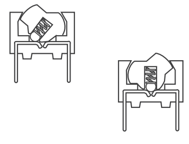

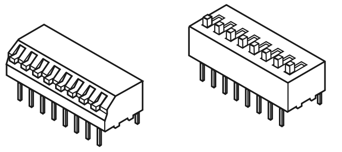

Fig. 1 – Series 76 Rocker and Recessed Rocker

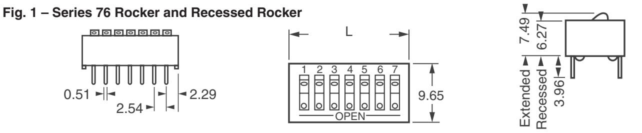

Fig. 2 – Series 76 Piano DIP

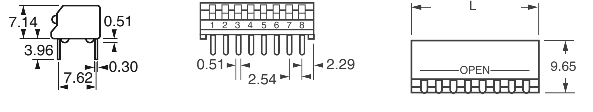

Fig. 3 – Series 78

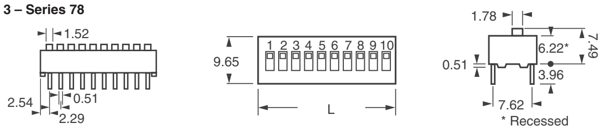

Fig. 4 – Series 90

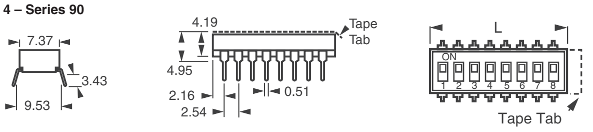

Fig. 5 – Series 90HBW, 90HBJ

Gull Lead: J-Lead:

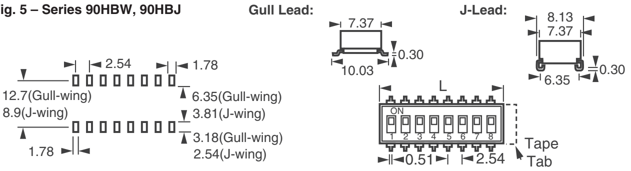

Fig. 6 – Series 76HP SMT Piano DIP

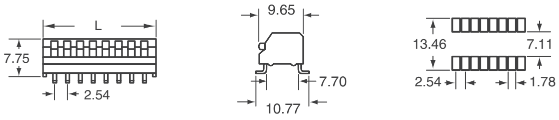

Fig. 7 – Series 97C Half Pitch

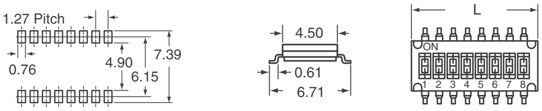

Fig. 8 – Series 97R Half Pitch

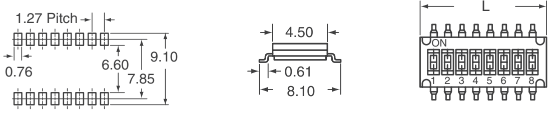

Fig.	No. of Pos.	Dim. L (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Grayhill Part No.
Raised Rocker, Unsealed							
1	2	7.11	GH7115-ND	.94	.86	.79	76SB02T
	3	9.65	GH7168-ND	.95	.87	.79	76SB03T
	4	12.19	GH7170-ND	.94	.86	.79	76SB04T
	5	14.7	GH7172-ND	1.36	1.25	1.14	76SB05T
	6	17.27	GH7174-ND	1.38	1.27	1.15	76SB06T
	7	19.81	GH7175-ND	1.42	1.30	1.19	76SB07T
	8	22.35	GH7177-ND	1.46	1.34	1.22	76SB08T
	9	24.9	GH7179-ND	1.47	1.36	1.23	76SB09T
	10	27.43	GH7118-ND	1.51	1.39	1.26	76SB10T
	12	32.51	GH7120-ND	1.61	1.48	1.34	76SB12T
Raised Rocker, Sealed							
1	2	7.11	GH7114-ND	1.08	.99	.90	76SB02ST
	3	9.65	GH7167-ND	1.08	.99	.90	76SB03ST
	4	12.2	GH7169-ND	1.08	.99	.90	76SB04ST
	5	14.73	GH7171-ND	1.50	1.38	1.26	76SB05ST
	6	17.27	GH7173-ND	1.47	1.35	1.23	76SB06ST
	7	19.81	GH7116-ND	1.49	1.37	1.24	76SB07ST
	8	22.35	GH7176-ND	1.49	1.37	1.24	76SB08ST
	9	24.89	GH7178-ND	1.57	1.44	1.31	76SB09ST
	10	27.43	GH7117-ND	1.61	1.48	1.34	76SB10ST
	12	32.51	GH7119-ND	1.67	1.54	1.40	76SB12ST
Recessed Rocker, Unsealed							
1	2	7.11	GH7150-ND	1.24	1.15	1.04	76RSB02T
	3	9.65	GH7152-ND	1.28	1.18	1.07	76RSB03T
	4	12.19	GH7154-ND	1.32	1.22	1.11	76RSB04T
	5	14.73	GH7156-ND	1.38	1.27	1.15	76RSB05T
	6	17.27	GH7158-ND	1.40	1.29	1.17	76RSB06T
	7	19.81	GH7160-ND	1.43	1.32	1.20	76RSB07T
	8	22.35	GH7162-ND	1.49	1.37	1.24	76RSB08T
	9	24.89	GH7164-ND	1.51	1.39	1.26	76RSB09T
	10	27.43	GH7165-ND	1.52	1.40	1.27	76RSB10T
	12	32.51	GH7166-ND	1.62	1.49	1.35	76RSB12T
Recessed Rocker, Sealed							
1	2	7.11	GH7149-ND	1.32	1.22	1.11	76RSB02ST
	3	9.65	GH7151-ND	1.38	1.27	1.15	76RSB03ST
	4	12.19	GH7153-ND	1.40	1.29	1.17	76RSB04ST
	5	14.73	GH7155-ND	1.46	1.34	1.22	76RSB05ST
	6	17.27	GH7157-ND	1.49	1.37	1.24	76RSB06ST
	7	19.81	GH7159-ND	1.51	1.39	1.26	76RSB07ST
	8	22.35	GH7161-ND	1.55	1.43	1.30	76RSB08ST
	9	24.89	GH7163-ND	1.59	1.46	1.33	76RSB09ST
	10	27.43	GH7112-ND	1.62	1.49	1.35	76RSB10ST
	12	32.51	GH7113-ND	1.70	1.56	1.42	76RSB12ST
PIANO DIP® Unsealed							
2	2	7.11	GH7132-ND	1.32	1.22	1.11	76PSB02T
	3	9.7	GH7134-ND	1.36	1.25	1.14	76PSB03T
	4	12.19	GH7136-ND	1.10	1.01	.92	76PSB04T
	5	14.73	GH7138-ND	1.42	1.30	1.19	76PSB05T
	6	17.27	GH7140-ND	1.24	1.14	1.04	76PSB06T
	7	19.81	GH7142-ND	1.42	1.30	1.19	76PSB07T
	8	22.4	GH7144-ND	1.30	1.19	1.08	76PSB08T
	9	24.89	GH7146-ND	1.58	1.46	1.33	76PSB09T
	10	27.43	GH7148-ND	1.32	1.22	1.11	76PSB10T
	12	32.51	GH7111-ND	1.88	1.72	1.57	76PSB12T

Fig.	No. of Pos.	Dim. L (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Grayhill Part No.
PIANO DIP® Sealed							
2	2	7.11	GH7131-ND	1.43	1.32	1.20	76PSB02ST
	3	9.65	GH7133-ND	1.47	1.36	1.23	76PSB03ST
	4	12.19	GH7135-ND	1.19	1.09	.99	76PSB04ST
	5	14.7	GH7137-ND	1.50	1.38	1.26	76PSB05ST
	6	17.27	GH7139-ND	1.35	1.24	1.13	76PBS06ST
	7	19.8	GH7141-ND	1.65	1.51	1.38	76PSB07ST
	8	22.35	GH7143-ND	1.43	1.32	1.20	76PSB08ST
	9	24.89	GH7145-ND	1.76	1.61	1.47	76PSB09ST
	10	27.43	GH7147-ND	1.51	1.39	1.26	76PSB10ST
	12	32.51	GH7110-ND	1.97	1.81	1.65	76PSB12ST
Raised Slide Switch, Unsealed							
3	2	7.11	GH7181-ND	1.08	.99	.90	78B02T
	3	9.7	GH7183-ND	1.09	1.00	.91	78B03T
	4	12.19	GH7185-ND	.91	.84	.76	78B04T
	5	14.73	GH7187-ND	1.11	1.02	.93	78B05T
	6	17.27	GH7189-ND	1.11	1.02	.93	78B06T
	7	19.81	GH7191-ND	1.11	1.02	.93	78B07T
	8	22.4	GH7193-ND	1.02	.94	.85	78B08T
	9	24.89	GH7122-ND	1.05	.97	.88	78B09T
	10	27.4	GH7195-ND	1.08	.99	.90	78B10T
	12	32.51	GH7197-ND	1.27	1.17	1.06	78B12T
Raised Slide Switch, Sealed							
3	2	7.11	GH7180-ND	1.08	.99	.90	78B02ST
	3	9.65	GH7182-ND	1.09	1.00	.91	78B03ST
	4	12.19	GH7184-ND	.96	.89	.81	78B04ST
	5	14.7	GH7186-ND	1.33	1.23	1.12	78B05ST
	6	17.27	GH7188-ND	1.27	1.17	1.06	78B06ST
	7	19.81	GH7190-ND	1.31	1.20	1.09	78B07ST
	8	22.4	GH7192-ND	1.08	.99	.90	78B08ST
	9	24.89	GH7121-ND	1.17	1.08	.98	78B09ST
	10	27.43	GH7194-ND	1.27	1.17	1.06	78B10ST
	12	32.51	GH7196-ND	1.49	1.37	1.24	78B12ST
Recessed Slide Switch, Unsealed							
3	2	7.11	GH7201-ND	1.08	.99	.90	78RB02T
	3	9.7	GH7203-ND	1.09	1.00	.91	78RB03T
	4	12.2	GH7205-ND	.91	.84	.76	78RB04T
	5	14.73	GH7207-ND	1.11	1.02	.93	78RB05T
	6	17.3	GH7209-ND	1.10	1.01	.92	78RB06T
	7	19.81	GH7211-ND	1.11	1.02	.93	78RB07T
	8	22.35	GH7213-ND	1.02	.94	.85	78RB08T
	9	24.89	GH7124-ND	1.05	.97	.88	78RB09T
	10	27.43	GH7215-ND	1.08	.99	.90	78RB10T
	12	32.51	GH7216-ND	1.27	1.17	1.06	78RB12T
Recessed Slide Switch, Sealed							
3	2	7.11	GH7200-ND	1.08	.99	.90	78RB02ST
	3	9.65	GH7202-ND	1.09	1.00	.91	78RB03ST
	4	12.19	GH7204-ND	.96	.89	.81	78RB04ST
	5	14.73	GH7206-ND	1.33	1.23	1.12	78RB05ST
	6	17.3	GH7208-ND	1.27	1.17	1.06	78RB06ST
	7	19.81	GH7210-ND	1.31	1.20	1.09	78RB07ST
	8	22.35	GH7212-ND	1.08	.99	.90	78RB08ST
	9	24.89	GH7123-ND	1.17	1.08	.98	78RB09ST
	10	27.43	GH7214-ND	1.27	1.17	1.06	78RB10ST

Fig.	No. of Pos.	Dim. L (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Grayhill Part No.
Auto-Insertable Auto DIP, Sealed							
4	2	6.86	GH7218-ND	.77	.71	.65	90B02ST
	3	9.40	GH7219-ND	.86	.80	.72	90B03ST
	4	11.9	GH7220-ND	.96	.89	.81	90B04ST
	5	14.5	GH7221-ND	1.03	.95	.86	90B05ST
	6	17.02	GH7222-ND	1.22	1.12	1.02	90B06ST
	7	19.6	GH7223-ND	1.28	1.18	1.07	90B07ST
	8	22.10	GH7224-ND	1.19	1.09	.99	90B08ST
	9	24.64	GH7225-ND	1.50	1.38	1.26	90B09ST
	10	27.18	GH7226-ND	1.60	1.47	1.34	90B10ST
SMT Gull Lead, Sealed							
5	2	6.9	GH7236-ND	.88	.81	.74	90HBW02PT
	3	9.4	GH7237-ND	.92	.85	.77	90HBW03PT
	4	11.9	GH7238-ND	1.02	.94	.85	90HBW04PT
	5	14.5	GH7239-ND	1.14	1.05	.95	90HBW05PT
	6	17.0	GH7240-ND	1.19	1.09	.99	90HBW06PT
	7	19.6	GH7241-ND	1.31	1.20	1.09	90HBW07PT
	8	22.1	GH7242-ND	1.22	1.12	1.02	90HBW08PT
	9	24.6	GH7243-ND	1.53	1.41	1.28	90HBW09PT
	10	27.2	GH7244-ND	1.54	1.42	1.29	90HBW10PT
SMT J-Lead, Sealed							
5	2	6.86	GH7227-ND	1.70	1.56	1.42	90HBJ02PT
	3	9.40	GH7228-ND	1.76	1.61	1.47	90HBJ03PT
	4	11.94	GH7229-ND	1.49	1.37	1.24	90HBJ04PT
	5	14.48	GH7230-ND	1.70	1.56	1.42	90HBJ05PT
	6	17.02	GH7231-ND	1.73	1.59	1.44	90HBJ06PT
	7	19.56	GH7232-ND	1.78	1.64	1.49	90HBJ07PT
	8	22.10	GH7233-ND	1.46	1.34	1.22	90HBJ08PT
	9	24.64	GH7234-ND	1.86	1.71	1.56	90HBJ09PT
	10	27.20	GH7235-ND	1.67	1.54	1.40	90HBJ10PT
Series 76HP PIANO DIP®							
6	2	7.1	GH7125CT-ND	4.06	2.85	1.87	76HPSB02GWRT
	2	7.1	GH7125TR-ND		792.75/500		76HPSB02GWRT
	4	12.2	GH7126CT-ND	4.29	3.01	1.98	76HPSB04GWRT
	4	12.2	GH7126TR-ND		817.25/500		76HPSB04GWRT
	6	17.3	GH7127CT-ND	4.29	3.01	1.98	76HPSB06GWRT
	6	17.3	GH7127TR-ND		986.50/500		76HPSB06GWRT
	8	22.4	GH7128CT-ND	5.00	3.50	2.30	76HPSB08GWRT
	8	22.4	GH7128TR-ND		924.00/500		76HPSB08GWRT
	10	27.4	GH7109TR-ND		1006.25/500		76HPSB10GWRT
Series 97 Half Pitch							
7	2	3.76	GH1370-ND	1.97	1.81	1.65	97C02ST
	4	6.30	GH1371-ND	3.26	2.29	1.50	97C04ST
	8	11.38	GH1372-ND	2.13	1.96	1.78	97C08ST
8	2	3.76	GH1374-ND	1.97	1.81	1.65	97R02ST
	4	6.30	GH1375-ND	3.26	2.29	1.50	97R04ST
	8	11.38	GH1376-ND	2.13	1.96	1.78	97R08ST
	10	13.92	GH1373-ND	3.70	2.59	1.70	97C10ST
Hand Tool for Dip Switch							
—	Tool	—	GH1343-ND	1.61	—	.74	90-DIPSTICK

Grayhill

Rotary DIP Switches

SPECIFICATIONS: • **Mechanical Life:** 10,000 cycles • **Make and Break Current Rating:** 30mA at 30VDC for 10,000 cycles of operation • **Carrying Current Rating:** 100mA at 500VDC • **Contact Resistance:** 50mΩ maximum • **Operating Temperature Range:** -25°C ~ 85°C
MATERIALS AND FINISHES: • **Rotor and Switch Body:** Plastic, rated at UL 94V-0 • **Contact Material:** Copper alloy gold over 30 microinches nickel • **Terminals:** Copper alloy plated 150 microinches tin lead solder over nickel • **Internal O-ring:** Silicon rubber
FLUX CLEANING: • Acceptable cleaning solutions include 1-1-1 Trichlorethane, Freon (TF, TE, or TMS), Isopropyl Alcohol, and detergent (140°F (60°C) maximum). Solutions which are not recommended include Acetone, Methylene Chloride, and Freon TMC.
Note: All Grayhill Dip Switches are shipped in tubes.

Code	Type of Mounting	Type of Actuator	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
Rotary Switches							
Octal	Thru-Hole	Extended (.270 in.)	GH7258-ND	3.38	2.76	2.37	94HBB08T
	Thru-Hole	Extended (.170 in.)	GH7264-ND	3.38	2.76	2.37	94HCB08T
	Thru-Hole	Flush	GH7249-ND	3.01	2.76	2.51	94HAB08T
	SMT	Extended (.270 in.)	GH7259-ND	3.38	3.02	2.37	94HBB08WT
	SMT	Extended (.170 in.)	GH7366-ND	3.38	3.02	2.37	94HCB08WT
	SMT	Flush	GH7250-ND	3.01	2.76	2.51	94HAB08WT
	Right Angle	Extended (.270 in.)	GH7257-ND	3.37	3.09	2.81	94HBB08RAT
	Right Angle	Extended (.170 in.)	GH7367-ND	3.78	3.09	2.65	94HCB08RAT
	Right Angle	Flush	GH7248-ND	3.37	3.09	2.81	94HAB08RAT
BCD	Thru-Hole	Extended (.270 in.)	GH7261-ND	3.01	2.76	2.51	94HBB10T
	Thru-Hole	Extended (.170 in.)	GH7369-ND	3.38	2.76	2.37	94HCB10T
	Thru-Hole	Flush	GH7252-ND	3.01	2.76	2.51	94HAB10T
	SMT	Extended (.270 in.)	GH7364-ND	3.38	3.02	2.37	94HBB10WT
	SMT	Extended (.170 in.)	GH7368-ND	3.38	3.02	2.37	94HCB10WT
	SMT	Flush	GH7253-ND	3.01	2.76	2.51	94HAB10WT
	Right Angle	Extended (.270 in.)	GH7260-ND	3.37	3.09	2.81	94HBB10RAT
	Right Angle	Extended (.170 in.)	GH7370-ND	3.78	3.09	2.65	94HCB10RAT
	Right Angle	Flush	GH7251-ND	3.37	3.09	2.81	94HAB10RAT
Hex	Thru-Hole	Extended (.270 in.)	GH7263-ND	3.01	2.76	2.51	94HBB16T
	Thru-Hole	Extended (.170 in.)	GH7372-ND	3.38	2.76	2.37	94HCB16T
	Thru-Hole	Flush	GH7255-ND	3.01	2.76	2.51	94HAB16T
	SMT	Extended (.270 in.)	GH7365-ND	3.38	3.02	2.37	94HBB16WT
	SMT	Extended (.170 in.)	GH7371-ND	3.38	3.02	2.37	94HCB16WT
	SMT	Flush	GH7256-ND	3.01	2.76	2.51	94HAB16WT
	Right Angle	Extended (.270 in.)	GH7262-ND	3.37	3.09	2.81	94HBB16RAT
	Right Angle	Extended (.170 in.)	GH7373-ND	3.78	3.09	2.65	94HCB16RAT
	Right Angle	Flush	GH7254-ND	3.37	3.09	2.81	94HAB16RAT
Knobs for Extended Actuators Only							
Black Knob, Open Window Type, .210 tall			GH5005-ND	.76	—	.54	947705-001
Gray Knob, Open Window Type, .210 tall			GH5006-ND	.76	—	.54	947705-012
Gray Knob, Black Arrowhead, .210 tall			GH5007-ND	.76	—	.54	947705-017
Gray Knob, Open Window Type, .370 tall			GH7374-ND	1.21	1.08	.85	947706-001

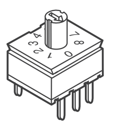

Extended

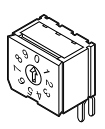

Right Angle/Flush

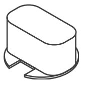

Knob for Extended Actuators

Switch Markings

Octal

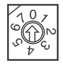

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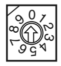

Hex

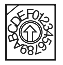

OMRON

DIP Switches

A6D and A6DR Series Features: • Completely sealed units allow immersion-cleaning without taping • Bifurcated movable contacts • Smooth, sure switching action **Specifications:** • Switching capacity: 100mA at 5VDC, 30mA at 30VDC • Contact resistance: 100mΩ Maximum • Operating temperature: -20°C ~ 70°C • Mechanical life: 5,000 operations minimum • Electrical life: 2,000 operations min.

A6E Series Features: Sealed bottom prevents flux penetration
NOTE: Switches cannot be water washed.
Specifications: • Switching capacity: 25mA at 24VDC • Mechanical life: 1,000 operations minimum • Electrical life: 1,000 operations minimum • Operating Temperature: -20°C ~ 70°C

A6S and A6T Series Features: • Allows automatic mounting with DIP IC insertion machines • Washable models with seal tape are available **Specifications:** • Switching capacity: 25mA at 24VDC • Mechanical life: 1,000 operations minimum • Electrical Life: 1,000 operations minimum • Operating Temperature: -20°C ~ 70°C

Dimensions. in mm

Fig. 1

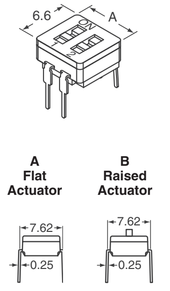

Fig. 2 — Side Actuator

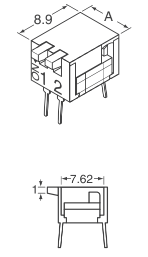

Fig. 3

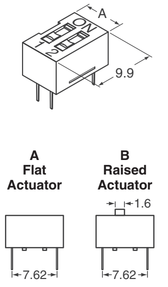

Fig. 4 — Side Actuator (Short Lever)

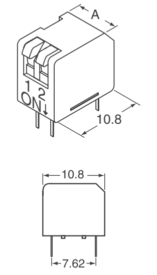

Fig. 5 — Side Actuator (Long Lever)

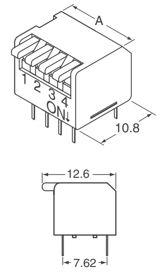

Fig. 6

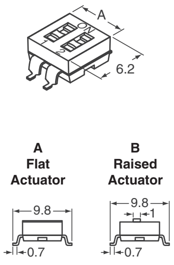

Fig. 7

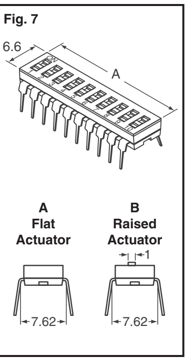

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1A	2	7.1	SW896-ND	2.29	2.07	1.84	A6D-2100
	4	12.2	SW898-ND	2.44	2.20	1.95	A6D-4100
	6	17.3	SW940-ND	2.72	2.46	2.18	A6D-6100
	8	22.4	SW942-ND	2.87	2.58	2.30	A6D-8100
1B	2	7.1	SW897-ND	2.57	2.32	2.06	A6D-2103
	4	12.2	SW899-ND	2.57	2.32	2.06	A6D-4103
	6	17.3	SW941-ND	2.92	2.63	2.34	A6D-6103
	8	22.4	SW943-ND	3.17	2.86	2.54	A6D-8103
2	2	7.1	SW944-ND	3.35	3.02	2.69	A6DR-2100
	4	12.2	SW945-ND	3.45	3.11	2.76	A6DR-4100
	6	17.3	SW946-ND	3.94	3.55	3.16	A6DR-6100
	8	22.4	SW947-ND	4.47	4.03	3.58	A6DR-8100
3A	2	6.64	SW949-ND	1.19	1.07	.95	A6E-2101
	3	9.18	SW900-ND	1.28	1.16	1.03	A6E-3101
	4	11.72	SW902-ND	1.47	1.33	1.18	A6E-4101

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
3A	5	14.26	SW904-ND	1.66	1.50	1.33	A6E-5101
	6	16.8	SW906-ND	1.87	1.69	1.50	A6E-6101
	7	19.34	SW908-ND	2.07	1.86	1.66	A6E-7101
	8	21.88	SW910-ND	2.35	2.12	1.89	A6E-8101
3B	2	6.64	SW948-ND	1.19	1.07	.95	A6E-2104
	3	9.18	SW901-ND	1.28	1.16	1.03	A6E-3104
	4	11.72	SW903-ND	1.47	1.33	1.18	A6E-4104
	5	14.26	SW905-ND	1.66	1.50	1.33	A6E-5104
	6	16.8	SW907-ND	1.87	1.69	1.50	A6E-6104
	7	19.34	SW909-ND	2.07	1.86	1.66	A6E-7104
	8	21.88	SW911-ND	2.35	2.12	1.89	A6E-8104
4	2	6.64	SW912-ND	1.34	1.21	1.08	A6ER-2101
	4	11.72	SW913-ND	1.68	1.52	1.35	A6ER-4101
	8	21.88	SW915-ND	2.51	2.26	2.01	A6ER-8101

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
5	4	11.72	SW914-ND	1.68	1.52	1.35	A6ER-4104
	8	21.88	SW916-ND	2.51	2.26	2.01	A6ER-8104
6A	2	6.02	SW1008-ND	1.14	1.03	.91	A6S-2102-H
	4	11.1	SW1010-ND	1.20	1.08	.96	A6S-4102-H
	5	13.64	SW932-ND	1.30	1.18	1.05	A6S-5102
	5	13.64	SW1012-ND	1.30	1.18	1.05	A6S-5102-H
	6	16.18	SW1014-ND	1.40	1.26	1.12	A6S-6102-H
	8	21.26	SW1016-ND	1.74	1.57	1.40	A6S-8102-H
6B	2	6.02	SW1009-ND	1.08	.97	.87	A6S-2104-H
	4	11.1	SW1011-ND	1.14	1.03	.91	A6S-4104-H
	5	13.64	SW1013-ND	1.23	1.11	.99	A6S-5104-H
	6	16.18	SW1015-ND	1.34	1.21	1.07	A6S-6104-H
	8	21.26	SW1017-ND	1.67	1.51	1.34	A6S-8104-H
7A	10	26.34	SW938-ND†	1.81	1.64	1.45	A6T-0102
7B	10	26.34	SW939-ND	1.79	1.61	1.43	A6T-0104

† With Tape Seal

CTS DIP Switches

Electrical Specifications:

Initial Contact Resistance: 25mΩ (209, 219 Series); 50mΩ (193, 194, 204, and 206 Series); 100mΩ (195, 208, and 218 Series).

Maximum Contact Resistance: 100mΩ after 10,000 cycles switching 50mA @ 24VDC (206 Series); 100mΩ after 7,000 cycles switching 50mA @ 24VDC (193 and 194 Series); 500mΩ after 2,000 cycles switching 50mA @ 24VDC (195 Series); 500mΩ after 2,000 cycles switching 50mA @ 15VDC or 100mΩ after 1,000 cycles switching 25mA @ 24VDC (208 Series); 50mΩ maximum at end of life (209 and 219 Series). Gold finish refers to internal contact area of the switch, terminals are solder coated.

Maximum Non-Switching Rating: 100mA or 50VDC.

Insulation Resistance: Across open switch and between adjacent closed switches - 1 x 10^9Ω (218 Series: 100mΩ minimum).

Dielectric Breakdown: 500VDC maximum for 1 minute (218 Series – 300VDC maximum).

Switch Capacitance: Between adjacent switches maximum - 5.0pF (218 Series: 10pF).

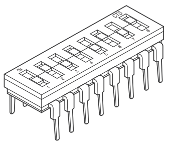

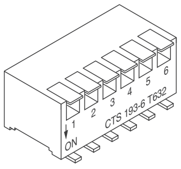

Shock: Per MIL-STD-202F, method 213B, condition A with no contact inconsistencies greater than 1µsec (206, 208, 209, 218 and 219 Series); no mechanical damage or changes of switch settings with 25G applied (193, 194, 195 and 204 Series).

Vibration: Per MIL-STD-202F, method 204D, condition B (.06" or 15G's between 10Hz to 2KHz) with no contact inconsistencies greater than 1µsec (204, 206, 208, 209, 218, and 219 Series). No mechanical damage or changes of switch settings during or after testing when tested in three mutually perpendicular planes at 10-50Hz sweep or at 60Hz constant vibration (193, 194 and 195 Series).

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	CTS Part No.
206 Series — SPST, Gold Finish, Lt. Blue Body							
1	2	7.26	CT2062-ND	1.28	11.73	106.65	206-2
	3	9.80	CT2063-ND	1.01	9.28	84.38	206-3
	4	12.34	CT2064-ND◆	.59	5.45	49.50	206-4
	5	14.88	CT2065-ND	.73	6.68	60.75	206-5
	6	17.42	CT2066-ND◆	1.09	9.97	90.68	206-6
	7	19.96	CT2067-ND	1.10	10.05	91.35	206-7
	8	22.50	CT2068-ND◆	.65	5.94	54.00	206-8
	9	25.04	CT2069-ND◆	1.06	9.73	88.43	206-9
	10	27.58	CT20610-ND	1.09	10.00	90.90	206-10
	12	32.66	CT20612-ND	1.24	11.39	103.50	206-12
206-ST Series — SPST, Gold Finish, Sealed, Lt. Blue Body							
1	2	7.26	CT2062ST-ND◆	1.36	12.47	113.40	206-2ST
	3	9.80	CT2063ST-ND◆	1.09	9.95	90.45	206-3ST
	4	12.34	CT2064ST-ND◆	.68	6.19	56.25	206-4ST
	5	14.88	CT2065ST-ND	.97	8.86	80.55	206-5ST
	6	17.42	CT2066ST-ND◆	1.25	11.48	104.40	206-6ST
	7	19.96	CT2067ST-ND	1.27	11.61	105.53	206-7ST
	8	22.50	CT2068ST-ND◆	.73	6.68	60.75	206-8ST
	9	25.04	CT2069ST-ND	1.21	11.09	100.80	206-9ST
	10	27.58	CT20610ST-ND◆	1.03	9.41	85.50	206-10ST
	12	32.66	CT20612ST-ND◆	1.03	9.41	85.50	206-12ST
208 Series — SPST, Tin Finish, Black Body							
1	2	7.26	CT2082-ND	.97	8.91	81.00	208-2
	3	9.80	CT2083-ND	.90	8.27	75.15	208-3
	4	12.34	CT2084-ND◆	.51	4.70	42.75	208-4
	5	14.88	CT2085-ND	.70	6.41	58.28	208-5
	6	17.42	CT2086-ND◆	.72	6.63	60.30	208-6
	7	19.96	CT2087-ND◆	.77	7.05	64.13	208-7
	8	22.50	CT2088-ND◆	.54	4.95	45.00	208-8
	9	25.04	CT2089-ND	.85	7.75	70.43	208-9
	10	27.58	CT20810-ND	.92	8.39	76.28	208-10
	12	32.66	CT20812-ND	1.03	9.48	86.18	208-12
206-124 Series — SPDT, Gold Finish, Lt. Blue Body							
1	4	22.50	CT206124-ND	2.08	19.03	173.03	206-124
206-214 Series — DPST, Gold Finish Lt. Blue Body — RoHS Compliant							
1	4	22.50	CT206214-ND	1.62	14.87	135.23	206-214
194-MST Series — SPST, Gold Finish, Sealed, Lt. Blue Body							
2	2	7.26	CT1942MST-ND	1.33	12.20	110.93	194-2MST
	3	9.80	CT1943MST-ND	.95	8.66	78.75	194-3MST
	4	12.34	CT1944MST-ND	.86	7.92	72.00	194-4MST
	5	14.88	CT1945MST-ND◆	1.37	12.52	113.85	194-5MST
	6	17.42	CT1946MST-ND◆	1.26	11.51	104.63	194-6MST
	7	19.96	CT1947MST-ND	1.50	13.76	125.10	194-7MST
	8	22.50	CT1948MST-ND◆	.95	8.66	78.75	194-8MST
	9	25.04	CT1949MST-ND	1.63	14.92	135.68	194-9MST
	10	27.58	CT19410MST-ND	1.45	13.29	120.83	194-10MST
	12	32.66	CT19412MST-ND	1.80	16.48	149.85	194-12MST
195-MST Series — SPST, Tin Finish, Sealed, Black Body							
2	2	7.26	CT1952MST-ND	.81	7.43	67.50	195-2MST
	4	12.34	CT1954MST-ND	.89	8.14	74.03	195-4MST
	5	14.88	CT1955MST-ND	1.21	11.11	101.03	195-5MST
	6	17.42	CT1956MST-ND	1.08	9.90	90.00	195-6MST
	7	19.96	CT1957MST-ND	1.33	12.15	110.48	195-7MST
	8	22.50	CT1958MST-ND◆	1.15	10.52	95.63	195-8MST
	9	25.04	CT1959MST-ND	1.42	13.04	118.58	195-9MST
	10	27.58	CT19510MST-ND	1.24	11.39	103.50	195-10MST
	12	32.66	CT19512MST-ND	1.50	13.76	125.10	195-12MST
206-RAST Series — SPST, Gold Finish, Sealed, Lt. Blue Body							
3	2	7.26	CT2062RAST-ND	1.64	15.00	136.35	206-2RAST
	3	9.80	CT2063RAST-ND	1.30	11.88	108.00	206-3RAST
	4	12.34	CT2064RAST-ND◆	1.03	9.41	85.50	206-4RAST
	5	14.88	CT2065RAST-ND◆	1.00	9.18	83.48	206-5RAST
	6	17.42	CT2066RAST-ND◆	1.27	11.63	105.75	206-6RAST
	7	19.96	CT2067RAST-ND	1.52	13.91	126.45	206-7RAST
	8	22.50	CT2068RAST-ND◆	1.27	11.63	105.75	206-8RAST
	9	25.04	CT2069RAST-ND◆	1.50	13.76	125.10	206-9RAST
	10	27.58	CT20610RAST-ND◆	1.93	17.65	160.43	206-10RAST
	12	32.66	CT20612RAST-ND◆	1.73	15.86	144.23	206-12RAST
209-LPST Series — SPST, Gold Finish, Flush, Sealed, Black Body							
4	2	6.55	CT2092LPST-ND◆	.59	5.42	49.28	209-2LPST
	3	9.09	CT2093LPST-ND	.65	5.99	54.45	209-3LPST
	4	11.63	CT2094LPST-ND◆	.57	5.20	47.25	209-4LPST
	5	14.17	CT2095LPST-ND◆	.82	7.55	68.63	209-5LPST
	6	16.71	CT2096LPST-ND◆	.73	6.68	60.75	209-6LPST
4	7	19.25	CT2097LPST-ND	1.00	9.21	83.70	209-7LPST
	8	21.79	CT2098LPST-ND◆	.73	6.68	60.75	209-8LPST
	9	24.33	CT2099LPST-ND	1.19	10.87	98.78	209-9LPST
	10	26.87	CT20910LPST-ND	1.26	11.56	105.08	209-10LPST
	12	31.95	CT20912LPST-ND	1.43	13.12	119.25	209-12LPST
209-MS Series — SPST, Gold Finish, Extended, Sealed, Black Body							
4	2	6.55	CT2092MS-ND◆	.57	5.20	47.25	209-2MS
	3	9.09	CT2093MS-ND◆	.63	5.77	52.43	209-3MS
	4	11.63	CT2094MS-ND◆	.71	6.51	59.18	209-4MS
	5	14.17	CT2095MS-ND	.80	7.33	66.60	209-5MS
	6	16.71	CT2096MS-ND◆	.89	8.12	73.80	209-6MS
	7	19.25	CT2097MS-ND	.98	8.96	81.45	209-7MS
	8	21.79	CT2098MS-ND	1.06	9.68	87.98	209-8MS
	9	24.33	CT2099MS-ND	1.16	10.62	96.53	209-9MS
	10	26.87	CT20910MS-ND	1.24	11.34	103.05	209-10MS
	12	31.95	CT20912MS-ND	1.41	12.89	117.23	209-12MS
219-LPST Series — SPST, Gold Finish, Flush, Sealed, Brown Body							
5	2	6.55	CT2192LPST-ND◆	.58	5.30	48.15	219-2LPST
	3	9.09	CT2193LPST-ND◆	.70	6.41	58.28	219-3LPST
	4	11.63	CT2194LPST-ND◆	.59	5.45	49.50	219-4LPST
	5	14.17	CT2195LPST-ND◆	.87	7.99	72.68	219-5LPST
	6	16.71	CT2196LPST-ND◆	.87	8.02	72.90	219-6LPST
	7	19.25	CT2197LPST-ND◆	1.06	9.68	87.98	219-7LPST
	8	21.79	CT2198LPST-ND◆	.92	8.42	76.50	219-8LPST
	9	24.33	CT2199LPST-ND◆	1.22	11.16	101.48	219-9LPST
	10	26.87	CT21910LPST-ND◆	1.15	10.54	95.85	219-10LPST
	12	31.95	CT21912LPST-ND	1.47	13.44	122.18	219-12LPST
219-MST Series — SPST, Gold Finish, Extended, Sealed, Brown Body							
5	2	6.55	CT2192MST-ND◆	.49	4.46	40.50	219-2MST
	3	9.09	CT2193MST-ND◆	.70	6.41	58.28	219-3MST
	4	11.63	CT2194MST-ND◆	.59	5.45	49.50	219-4MST
	5	14.17	CT2195MST-ND◆	.87	7.99	72.68	219-5MST
	6	16.71	CT2196MST-ND◆	.95	8.71	79.20	219-6MST
	7	19.25	CT2197MST-ND◆	1.06	9.68	87.98	219-7MST
	8	21.79	CT2198MST-ND◆	.95	8.66	78.75	219-8MST
	9	24.33	CT2199MST-ND	1.22	11.16	101.48	219-9MST
	10	26.87	CT21910MST-ND◆	1.28	11.71	106.43	219-10MST
	12	31.95	CT21912MST-ND	1.47	13.44	122.18	219-12MST
193 Series — SPST, Gold Finish, Brown Body							
6	2	7.26	CT1932MS-ND	1.95	15.57	137.61	193-2MS
	3	9.80	CT1933MS-ND	2.02	16.18	143.06	193-3MS
	4	12.34	CT1934MS-ND◆	1.78	14.25	130.63	193-4MS
	5	14.88	CT1935MS-ND	2.06	16.50	151.25	193-5MS
	6	17.42	CT1936MS-ND	2.09	16.74	148.01	193-6MS
	7	19.96	CT1937MS-ND	2.28	18.20	160.88	193-7MS
	8	22.50	CT1938MS-ND◆	1.97	15.79	139.59	193-8MS
204 Series — SPST, Tape Sealed, Gold Finish, Brown Body							
7	2	7.26	CT2042ST-ND	1.77	15.21	139.43	204-2ST
	3	9.80	CT2043ST-ND	1.67	13.36	118.06	204-3ST
	4	12.34	CT2044ST-ND◆	1.41	12.12	111.10	204-4ST
	5	14.88	CT2045ST-ND ◆	1.46	12.51	114.68	204-5ST
	6	17.42	CT2046ST-ND	1.52	12.99	119.08	204-6ST
	7	19.96	CT2047ST-ND	1.57	13.47	123.48	204-7ST
	8	22.50	CT2048ST-ND◆	1.61	13.80	126.50	204-8ST
	9	25.04	CT2049ST-ND	1.67	14.34	131.45	204-9ST
	10	27.58	CT20410ST-ND	1.80	15.42	141.35	204-10ST
	12	32.66	CT20412ST-ND	1.95	16.68	152.90	204-12ST
204 Series — SPDT, Tape Sealed, Gold Finish, Brown Body							
7	1	7.26	CT204121ST-ND◆	1.94	16.65	152.63	204-121ST
	1	7.26	CT204121LPST-ND	2.05	17.61	161.43	204-121LPST
204 Series — DPST, Tape Sealed, Gold Finish, Brown Body							
7	1	7.26	CT204211ST-ND◆	1.42	11.34	100.24	204-211ST
	2	12.34	CT204212ST-ND	1.78	14.22	125.73	204-212ST
	3	17.42	CT204213ST-ND	1.93	16.53	151.53	204-213ST
	4	22.50	CT204214ST-ND	2.05	16.44	145.28	204-214ST
	5	27.58	CT204215ST-ND	2.10	17.52	160.60	204-215ST
	6	32.66	CT204216ST-ND	2.29	21.29	196.50	204-216ST
204 Series — DPDT, Tape Sealed, Gold Finish, Brown Body							
7	1	12.34	CT204221ST-ND◆	2.99	25.65	235.13	204-221ST
	2	22.50	CT204222ST-ND	1.79	14.34	126.72	204-222ST
	3	32.66	CT204223ST-ND◆	2.07	16.52	146.03	204-223ST
218 Series — SPST, Tape Sealed, Gold Finish Brown Body — RoHS Compliant							
8	2	3.71	CT2182LPST-ND	1.90	15.18	134.15	218-2LPST
	4	6.25	CT2184LPST-ND	1.89	15.12	133.65	218-4LPST
	6	8.79	CT2186LPST-ND	2.52	20.13	177.95	218-6LPST
	8	11.33	CT2188LPST-ND	3.25	25.98	229.68	218-8LPST
	10	13.87	CT21810LPST-ND	1.78	14.25	125.98	218-10LPST
	12	16.41	CT21812LPST-ND	2.98	27.35	248.63	218-12LPST

◆ *RoHS Compliant*

Fig. 1 - Top Actuated Slide

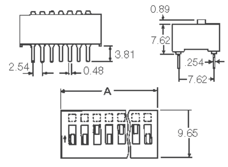

Fig. 2 - Side Actuated

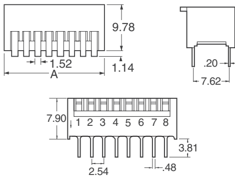

Fig. 3 - Right Angle Slide

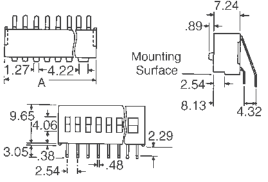

Fig. 4 - Top Actuated - Auto Dip

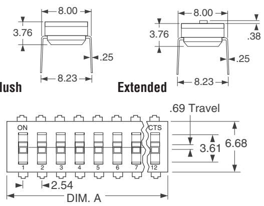

Fig. 5 - Surface Mount

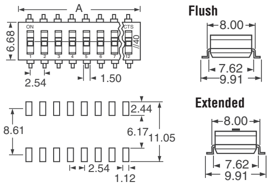

Fig. 6 - SMT Side Actuated

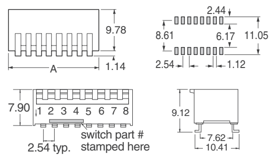

Fig. 7 - SMT Top Slide, Extended Act.

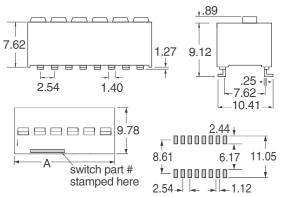

Standard model shown.
Low Profile also available (CT204121LPST-ND)

Fig. 8 - SMT Half Pitch, Recessed Actuated

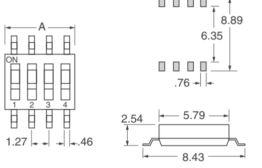

DIP Switches

Fig.	No. of Cir.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	Alcoswitch Part No.
			7000 Series – Side Actuated, Unsealed			
1	2	7.11	450-1348-ND	4.80	4.40	1-5435802-0
	3	9.65	450-1421-ND	5.43	4.98	5435802-2
	4	12.19	450-1422-ND	1.53	1.41	5435802-3
	5	14.73	450-1423-ND	1.65	1.52	5435802-4
	6	17.27	450-1424-ND	1.86	1.71	5435802-5
	8	22.35	450-1420-ND	2.01	1.85	5435802-1
	9	24.89	450-1425-ND	2.31	2.12	5435802-7
			7000 Series – Side Actuated, Plastisol Sealed			
1	4	12.19	450-1349-ND	1.74	1.60	1-5435802-5
	5	14.73	450-1350-ND	1.86	1.71	1-5435802-6
	8	22.35	450-1427-ND	2.16	1.98	5435802-9
	10	27.43	450-1400-ND	2.52	2.31	2-5435802-0
	12	32.51	450-1401-ND	2.94	2.70	2-5435802-2
			7100 Series – Standard Profile, Unsealed			
2	2	7.11	450-1396-ND	3.96	3.63	2-5435640-9
	3	9.65	450-1402-ND	3.99	3.66	3-5435640-0
	4	12.19	450-1414-ND	1.20	1.10	5435640-2
	6	17.27	450-1416-ND	1.44	1.32	5435640-4
	7	19.81	450-1413-ND	1.62	1.49	5435640-1
	8	22.35	450-1417-ND	1.44	1.32	5435640-5
	9	24.89	450-1418-ND	1.89	1.74	5435640-6
	10	27.43	450-1419-ND	1.98	1.82	5435640-7
	12	32.51	450-1403-ND	2.55	2.34	3-5435640-2
			7100 Series – Standard Profile, Plastisol Sealed			
2	4	12.19	450-1404-ND	1.38	1.27	3-5435640-5
	5	14.73	450-1405-ND	1.50	1.38	3-5435640-6
	6	17.27	450-1406-ND	1.62	1.49	3-5435640-7
	8	22.35	450-1408-ND	1.83	1.68	3-5435640-9
	9	24.89	450-1411-ND	2.04	1.87	4-5435640-0
	10	27.43	450-1412-ND	2.13	1.96	4-5435640-1
			7100 Series – Low Profile, Tape Sealed			
2	4	12.19	450-1410-ND	1.47	1.35	3-5435668-4
	6	17.27	450-1397-ND	1.83	1.68	2-5435668-5
	7	19.81	450-1398-ND	1.98	1.82	2-5435668-7
	8	22.35	450-1399-ND	1.95	1.79	2-5435668-8
	10	27.43	450-1409-ND	2.31	2.12	3-5435668-0

Fig.	No. of Cir.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	Alcoswitch Part No.
			7600 Series – Dip Shunt, Std Pressure			
3	4	10.16	450-1542-ND	1.02	.94	1825190-3
	7	17.78	450-1543-ND	1.20	1.10	1825190-6
	10	25.40	450-1544-ND	1.32	1.21	1825190-9
			GDS Series – Low Profile, End to End Stackable			
4	4	10.02	450-1360-ND	2.07	1.90	GDS0404
	6	15.1	450-1362-ND	2.22	2.04	GDS0604
	8	20.18	450-1342-ND	2.91	2.67	GDS0804
5	4	10.02	450-1361-ND	2.22	2.04	GDS04S04
	6	15.1	450-1341-ND	2.43	2.23	GDS06S04
	8	20.18	450-1343-ND	2.43	2.23	GDS08S04
			GDH Series – Low Profile, Half Pitch			
6	2	3.66	450-1431-ND	3.39	3.11	GDH02S04
	4	6.2	450-1353-ND	4.29	3.94	GDH04S04
	6	8.75	450-1354-ND	4.80	4.40	GDH06S04
	8	11.29	450-1352-ND	5.13	4.71	GDH08S04
	10	13.82	450-1337-ND	5.82	5.34	GDH10S04
			GDR Series – Recessed Rocker			
7	4	11.12	450-1437-ND	3.69	3.39	GDR0404
	6	16.2	450-1438-ND	3.33	3.06	GDR0604
	8	21.28	450-1439-ND	3.48	3.19	GDR0804
			ADE Series – Extended Actuator Sealed			
8	2	7.06	450-1363-ND	1.20	1.10	ADE0204
	4	12.14	450-1364-ND	1.26	1.16	ADE0404
	6	17.22	450-1365-ND	1.59	1.46	ADE0604
	8	22.3	450-1366-ND	1.50	1.38	ADE0804
			ADF Series – Flush Actuator Sealed			
8	2	7.06	450-1357-ND	1.20	1.10	ADF0204
	4	12.14	450-1358-ND	1.44	1.32	ADF0404
	6	17.22	450-1359-ND	1.50	1.38	ADF0604
	8	22.3	450-1339-ND	1.50	1.38	ADF0804
	10	27.38	450-1340-ND	1.92	1.76	ADF1004
			ADP Series – Piano Actuator Sealed			
9	2	7.06	450-1355-ND	1.47	1.35	ADP0204
	4	12.14	450-1356-ND	1.95	1.79	ADP0404
	6	17.22	450-1338-ND	2.25	2.07	ADP0604
	8	22.3	450-1395-ND	2.70	2.48	ADP0804
			STV Series – SIP			
10	2	8.28	450-1638-ND	3.03	2.78	STV02
	4	13.36	450-1639-ND	3.39	3.11	STV04
	8	23.52	450-1640-ND	5.73	5.26	STV08

Fig. 1

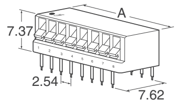

Fig. 2

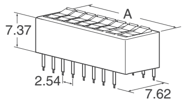

Fig. 3

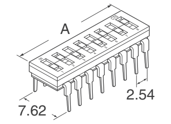

Fig. 4

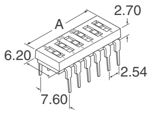

Fig. 5

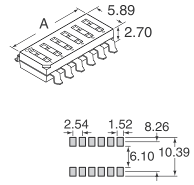

Fig. 6

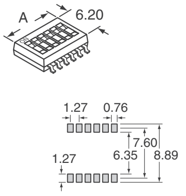

Fig. 7

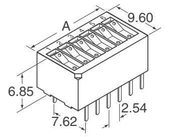

Fig. 8

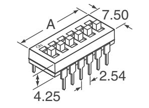

Fig. 9

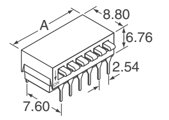

Fig. 10

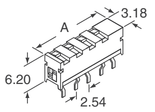

DIP Switches — Preprogrammed

Material: Glass-filled polyester, 94V-0 rated, black • **Contact:** Copper alloy with gold over nickel plating • **Voltage Rating:** 120V ms maximum • **Current Rating:** 1 amp maximum • **Contact Resistance:** 750mΩ maximum at 50mV open circuit • **Life Expectancy:** 500 revolutions • **Actuator:** Screwdriver slot

Switch Type	Tape Seal	Stamping Legend	Digi-Key Part No.	Price Each 1	10	Alcoswitch Part No.
Hexadecimal with Complement	No	Style I	450-1186-ND	15.84	14.52	53137-5
Hexadecimal with Complement	Yes	Style I	450-1188-ND	15.51	14.22	54792-1
Hexadecimal with Complement	Yes	Style II	450-1189-ND	15.51	14.22	54792-2
BCD with Complement	No	Style III	450-1190-ND	14.76	13.53	53919-2
BCD with Complement	Yes	Style III	450-1191-ND	15.12	13.86	54778-1

Dim. in mm

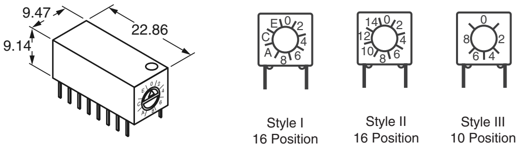

Style I
16 Position

Style II
16 Position

Style III
10 Position

Rotary Switches

Materials:

• **Contacts:** phosphor bronze, gold over nickel plated • **Dielectric Breakdown Voltage:** 500VDC minimum • **Insulation Resistance:** 1x10^{8}Ω • **Initial Contact Resistance:** 25mΩ • **Circuit Capacitance:** 5 picofarads (at 100kHz) • **Durability:** 1000 cycles

Dim. in mm

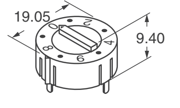

Description	No. of Pos.	Output Code Type	Digi-Key Part No.	Price Each 1	10	Alcoswitch Part No.
			6000 Series			
Screwdriver/Coin Actuated	10	Single Pole	450-1182-ND	30.84	28.14	1-435097-1
Bar-Type Knob	10	BCD	450-1183-ND	33.26	30.35	435123-1
Bar-Type Knob	16	Hexadecimal	450-1184-ND	33.29	30.37	1-435167-1

E•SWITCH™

Dip Switches

RoHS COMPLIANT

SPECIFICATIONS: • **Ratings:** Switch: 25mA @ 24VDC; Carry: 100mA @ 50VDC • **Contact Resistance:** Initial 50mΩ typical @ 2-4VDC, 100mA • **Insulation Resistance:** 100MΩ minimum • **Temperature Range:** -40°C ~ 85°C

Fig. 1

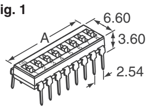

Fig. 2

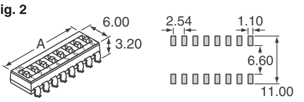

Fig. 3

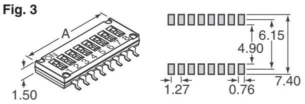

Materials: • **Housing:** PPS UL94V-0, Black finish • **Actuator:** Nylon UL94V-0, White finish • **Movable Contact:** Gold-plated copper alloy • **Terminal Contact:** Gold-plated brass • **Tape Seal:** Mylar, amber color

Operating Life: 2,000 cycles **Dielectric Strength:** 500V RMS minimum @ sea level between adjacent terminals

Fig. 4

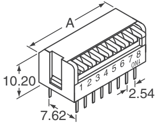

Materials: • **Housing and Actuator:** Glass filled polyester (PBT) UL94V-0 • **Contacts and Terminals:** Phosphor bronze with gold plate over nickel plate

Operating Life: 2,000 cycles **Dielectric Strength:** 500V RMS minimum @ sea level between adjacent terminals

Fig. 5

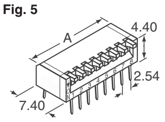

Fig. 6

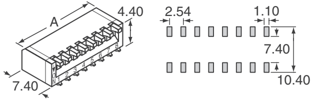

Materials: • **Housing:** Liquid Crystal Polymer (LCP), UL94V-0 • **Actuator:** Nylon UL94V-0 • **Contacts and Terminals:** Copper alloy with gold plate over nickel plate • **Tape Seal:** Tape with adhesive

Operating Life: 500 cycles **Dielectric Strength:** 300V RMS minimum @ sea level between adjacent terminals

Fig. 7

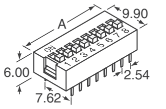

Fig. 8

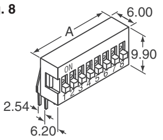

Materials: • **Housing and Actuator:** Glass filled polyester (PBT) UL94V-0 • **Contacts and Terminals:** Phosphor Bronze with gold plate over nickel plate • **Tape Seal:** Mylar

Operating Life: 2,000 cycles **Dielectric Strength:** 500V RMS minimum @ sea level between adjacent terminals

Fig. 9

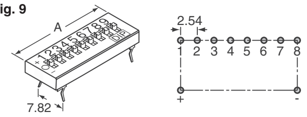

Materials: • **Housing:** Glass filled polyester (PBT) UL94V- 0 **Actuator:** Nylon, UL94V-0 • **Contacts:** Copper alloy with gold plate over nickel plate • **Terminals:** Copper alloy with 90/10 tin-lead plate

Operating Life: 2,000 cycles **Dielectric Strength:** 500V RMS minimum @ sea level between adjacent terminals

Fig.	No. of Circuits	Dimension A (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	E-Switch Part No.
KAJ Series							
Extended Slide, Low Profile, Unsealed, Through Hole							
1	1	2.54	EG4415-ND	.64	.58	.49	KAJ01LAGT
	2	5.08	EG4417-ND	.66	.60	.51	KAJ02LAGT
	3	7.62	EG4421-ND	.72	.65	.56	KAJ03LAGT
	4	10.16	EG4425-ND	.82	.74	.63	KAJ04LAGT
	5	12.7	EG4429-ND	.91	.82	.70	KAJ05LAGT
	6	15.24	EG4433-ND	.98	.89	.76	KAJ06LAGT
	7	17.78	EG4437-ND	1.12	1.01	.86	KAJ07LAGT
	8	20.32	EG4441-ND	1.18	1.06	.91	KAJ08LAGT
	9	22.86	EG4445-ND	1.36	1.23	1.05	KAJ09LAGT
	10	25.4	EG4449-ND	1.45	1.31	1.11	KAJ10LAGT
	12	30.48	EG4453-ND	1.72	1.55	1.32	KAJ12LAGT
Flush Slide, Low Profile, Sealed, Through Hole							
1	2	5.08	EG4419-ND	.70	.64	.54	KAJ02TAGT
	3	7.62	EG4423-ND	.77	.69	.59	KAJ03TAGT
	4	10.16	EG4427-ND	.85	.77	.66	KAJ04TAGT
	5	12.7	EG4431-ND	.91	.82	.70	KAJ05TAGT
	6	15.24	EG4435-ND	1.00	.90	.77	KAJ06TAGT
	7	17.78	EG4439-ND	1.15	1.04	.89	KAJ07TAGT
	8	20.32	EG4443-ND	1.23	1.11	.95	KAJ08TAGT
	9	22.86	EG4447-ND	1.39	1.26	1.07	KAJ09TAGT
	10	25.4	EG4451-ND	1.48	1.34	1.14	KAJ10TAGT
	12	30.48	EG4455-ND	1.76	1.58	1.35	KAJ12TAGT
Extended Slide, Low Profile, Unsealed, Gull Wing							
2	2	5.08	EG4418-ND	.66	.60	.51	KAJ02LGGT
	3	7.62	EG4422-ND	.72	.65	.56	KAJ03LGGT
	4	10.16	EG4426-ND	.82	.74	.63	KAJ04LGGT
	5	12.7	EG4430-ND	.91	.82	.70	KAJ05LGGT
	6	15.24	EG4434-ND	.98	.89	.76	KAJ06LGGT
	7	17.78	EG4438-ND	1.12	1.01	.86	KAJ07LGGT
	8	20.32	EG4442-ND	1.18	1.06	.91	KAJ08LGGT
	9	22.86	EG4446-ND	1.36	1.23	1.05	KAJ09LGGT
	10	25.4	EG4450-ND	1.45	1.31	1.11	KAJ10LGGT
	12	30.48	EG4454-ND	1.72	1.55	1.32	KAJ12LGGT
Flush Slide, Low Profile, Sealed, Gull Wing							
2	1	2.54	EG4416-ND†	.75	.68	.58	KAJ01SGGT
	2	5.08	EG4420-ND	.70	.64	.54	KAJ02TGGT
	3	7.62	EG4424-ND	.77	.69	.59	KAJ03TGGT
	4	10.16	EG4428-ND	.85	.77	.66	KAJ04TGGT
	5	12.7	EG4432-ND	.95	.86	.73	KAJ05TGGT
	6	15.24	EG4436-ND	1.00	.90	.77	KAJ06TGGT
	7	17.78	EG4440-ND	1.12	1.01	.86	KAJ07TGGT
	8	20.32	EG4444-ND	1.23	1.11	.95	KAJ08TGGT
	9	22.86	EG4448-ND	1.43	1.29	1.10	KAJ09TGGT
	10	25.4	EG4452-ND	1.48	1.34	1.14	KAJ10TGGT
	12	30.48	EG4456-ND	1.79	1.61	1.38	KAJ12TGGT
KAN Series							
Half-Pitch, Gull Wing							
3	2	3.77	EG4457-ND	2.60	2.34	2.00	KAN1102RT
	4	6.31	EG4458-ND	2.60	2.34	2.00	KAN1104RT
	6	8.85	EG4459-ND	2.60	2.34	2.00	KAN1106RT
	8	11.39	EG4460-ND	2.80	2.52	2.15	KAN1108RT
	10	13.73	EG4461-ND	2.81	2.53	2.16	KAN1110RT
KAP Series							
Extended, Piano, Through Hole							
4	2	6.64	EG4462-ND	1.13	1.02	.87	KAP1102E
	3	9.18	EG4463-ND	1.18	1.06	.91	KAP1103E
	4	11.72	EG4464-ND	1.26	1.14	.97	KAP1104E
	5	14.26	EG4465-ND	1.31	1.18	1.01	KAP1105E
	6	16.8	EG4466-ND	1.40	1.26	1.07	KAP1106E
	8	21.88	EG4467-ND	1.62	1.46	1.25	KAP1108E
	9	24.42	EG4468-ND	1.62	1.46	1.25	KAP1109E
4	10	26.96	EG4469-ND	1.76	1.59	1.35	KAP1110E
	12	32.04	EG4470-ND	1.98	1.79	1.53	KAP1112E
KAR Series							
Extended, Piano, Process Sealed, Through Hole							
5	2	7.37	EG4471-ND	.91	.82	.70	KAR02LAGT
	3	9.91	EG4473-ND	1.06	.95	.81	KAR03LAGT
	4	12.45	EG4475-ND	1.14	1.03	.88	KAR04LAGT
	5	14.99	EG4477-ND	1.40	1.26	1.07	KAR05LAGT
	6	17.53	EG4479-ND	1.53	1.38	1.18	KAR06LAGT
	8	22.61	EG4481-ND	1.90	1.72	1.46	KAR08LAGT
	10	27.69	EG4483-ND	2.37	2.14	1.82	KAR10LAGT
Extended, Piano, Process Sealed, Gull Wing							
6	2	7.37	EG4472-ND	.91	.82	.70	KAR02LGGT
	3	9.91	EG4474-ND	1.10	.99	.85	KAR03LGGT
	4	12.45	EG4476-ND	1.14	1.03	.88	KAR04LGGT
	5	14.99	EG4478-ND	1.40	1.26	1.07	KAR05LGGT
	6	17.53	EG4480-ND	1.57	1.42	1.21	KAR06LGGT
	8	22.61	EG4482-ND	1.90	1.72	1.46	KAR08LGGT
	10	27.69	EG4484-ND	2.37	2.14	1.82	KAR10LGGT
KAS Series							
Extended Slide, Unsealed							
7	2	6.44	EG4485-ND	.86	.78	.66	KAS1102E
	3	8.98	EG4487-ND	.89	.81	.69	KAS1103E
	4	11.52	EG4490-ND	.99	.90	.76	KAS1104E
	5	14.06	EG4493-ND	1.08	.98	.83	KAS1105E
	6	16.6	EG4496-ND	1.17	1.06	.90	KAS1106E
	8	21.68	EG4499-ND	1.26	1.14	.97	KAS1108E
	12	31.84	EG4503-ND	1.76	1.59	1.35	KAS1112E
Extended Slide, Sealed							
7	2	6.44	EG4486-ND	.94	.85	.73	KAS1102ET
	3	8.98	EG4488-ND	.99	.90	.76	KAS1103ET
	4	11.52	EG4491-ND	1.08	.98	.83	KAS1104ET
	5	14.06	EG4494-ND	1.16	1.05	.90	KAS1105ET
	6	16.6	EG4497-ND	1.26	1.14	.97	KAS1106ET
	8	21.68	EG4500-ND	1.35	1.22	1.04	KAS1108ET
	12	31.84	EG4504-ND	1.85	1.67	1.42	KAS1112ET
Recessed Slide, Sealed							
7	3	8.98	EG4489-ND	.99	.90	.76	KAS1103RT
	4	11.52	EG4492-ND	1.08	.98	.83	KAS1104RT
	5	14.06	EG4495-ND	1.16	1.05	.90	KAS1105RT
	6	16.6	EG4498-ND	1.26	1.14	.97	KAS1106RT
	8	21.68	EG4501-ND	1.35	1.22	1.04	KAS1108RT
	10	26.76	EG4502-ND	1.53	1.38	1.18	KAS1110RT
	12	31.84	EG4505-ND	1.85	1.67	1.42	KAS1112RT
Extended Slide, Right Angle, Unsealed							
8	2	6.44	EG4506-ND	1.13	1.02	.87	KAS2102E
	4	11.52	EG4508-ND	1.26	1.14	.97	KAS2104E
	5	14.06	EG4510-ND	1.35	1.22	1.04	KAS2105E
	6	16.6	EG4512-ND	1.44	1.30	1.11	KAS2106E
	8	21.68	EG4514-ND	1.62	1.46	1.25	KAS2108E
Extended Slide, Right Angle, Sealed							
8	2	6.44	EG4507-ND	1.21	1.10	.93	KAS2102ET
	4	11.52	EG4509-ND	1.35	1.22	1.04	KAS2104ET
	5	14.06	EG4511-ND	1.44	1.30	1.11	KAS2105ET
	6	16.6	EG4513-ND	1.53	1.38	1.18	KAS2106ET
	8	21.68	EG4515-ND	1.62	1.46	1.25	KAS2108ET
KAT Series							
Tri-State, Unsealed							
9	4	14.14	EG4516-ND	2.11	1.90	1.62	KAT1104E
	8	24.3	EG4555-ND	2.43	2.19	1.87	KAT1108E
	9	26.84	EG4517-ND	2.95	2.66	2.26	KAT1109E
	10	29.38	EG4556-ND	3.09	2.79	2.37	KAT1110E

† No Tape Seal

I

Optical Rotary Encoders Series 62A

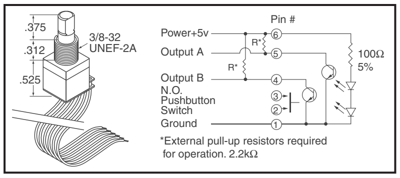

*External pull-up resistors required for operation. 2.2kΩ

These low cost encoders offer long life (over 1 million operations) with small size and optional integrated pushbutton. These encoders are ideal for radio frequency setting, drill depth setting and other applications where detents are desired for operator feedback. Rugged metal shaft and bushing for long life. Mates with AMP Connector 7-215079-6 Vertical and 7-215460-6 Right Angle. **Electrical Ratings: • Operating Voltage:** 5 ±.25VDC **• Supply Current:** 30 mA maximum at 5VDC **• Operating Torque:** 2.0 in-oz ±1.40 in-oz initially **• Rotational Life:** >1 million cycles of operation (cycle is rotation through all positions and return)

Detent Positions	Push-button	Termination	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
32	No	2” Cable/Connector	GH3046-ND	35.94	28.75	21.57	62A11-01-020S
32	Yes	2” Cable/Connector	GH3047-ND	39.28	31.43	23.57	62A11-02-020S
32	No	5” Cable/Connector	GH3048-ND	36.67	29.34	22.01	62A11-01-050S
32	Yes	5” Cable/Connector	GH3049-ND	40.04	32.04	24.03	62A11-02-050S
32	No	Pin; .100” centers	GH7383-ND ***NEW!***	35.94	28.75	21.57	62A11-01-P
32	Yes	Pin; .100” centers	GH7384-ND ***NEW!***	39.28	31.43	23.57	62A11-02-P
32	No	6” Cable/Connector	GH7385-ND ***NEW!***	36.91	29.53	22.15	62A11-01-060C
32	Yes	6”Cable/Connector	GH7386-ND ***NEW!***	40.30	32.24	24.18	62A11-02-060C
24	No	Pin; .100” centers	GH7387-ND ***NEW!***	35.94	28.75	21.57	62A15-01-P
24	Yes	Pin; .100” centers	GH7388-ND ***NEW!***	39.28	31.43	23.57	62A15-02-P
24	No	6” Cable/Connector	GH7389-ND ***NEW!***	36.91	29.53	22.15	62A15-01-060C
24	Yes	6” Cable/Connector	GH7390-ND ***NEW!***	40.30	32.24	24.18	62A15-02-060C
16	No	Pin; .100” centers	GH7391-ND ***NEW!***	35.94	28.75	21.57	62A22-01-P
16	Yes	Pin; .100” centers	GH7392-ND ***NEW!***	39.28	31.43	23.57	62A22-02-P
16	No	6” Cable/Connector	GH7393-ND ***NEW!***	36.92	29.54	22.15	62A22-01-060C
16	Yes	6” Cable/Connector	GH7394-ND ***NEW!***	40.30	32.24	24.18	62A22-02-060C

Optical Rotary Encoders Series 62S

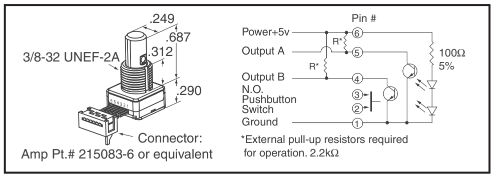

*External pull-up resistors required for operation. 2.2kΩ

These low cost encoders offer long life (over 1 million operations) with small size and optional integrated pushbutton. These encoders are ideal for radio frequency setting, drill depth setting and other applications where detents are desired for operator feedback. Rugged metal shaft and bushing for long life. Mates with AMP Connector 7-215079-6 Vertical and 7-215460-6 Right Angle. **Electrical Ratings: • Operating Voltage:** 5 ± .25VDC **• Supply Current:** 30 mA maximum at 5VDC **• Operating Torque:** 2.20 in-oz ±1.40 in-oz initially **• Rotational Life:** >1 million cycles of operation (cycle is rotation through all positions and return)

Detent Positions	Push-button	Termination	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
32	Yes	5” Cable/Connector	GH7297-ND	40.04	32.04	24.03	62S11-M5-050C
32	No	5” Cable/Connector	GH7298-ND	36.67	29.34	22.01	62S11-M0-050C
32	No	Pin; .100” centers	GH7395-ND ***NEW!***	35.94	28.75	21.57	62S11-M0-P
32	Yes	Pin; .100” centers	GH7396-ND ***NEW!***	39.28	31.43	23.57	62S11-M5-P
32	No	6” Cable/Connector	GH7397-ND ***NEW!***	36.91	29.53	22.15	62S11-M0-060C
32	Yes	6” Cable/Connector	GH7398-ND ***NEW!***	40.30	32.24	24.18	62S11-M5-060C
24	No	Pin; .100” centers	GH7399-ND ***NEW!***	35.94	28.75	21.57	62S15-M0-P
24	Yes	Pin; .100” centers	GH7400-ND ***NEW!***	39.28	31.43	23.57	62S15-M5-P
24	No	6” Cable/Connector	GH7401-ND ***NEW!***	36.91	29.53	22.15	62S15-M0-060C
24	Yes	6” Cable/Connector	GH7402-ND ***NEW!***	40.30	32.24	24.18	62S15-M5-060C
16	No	Pin; .100” centers	GH7403-ND ***NEW!***	35.94	28.75	21.57	62S22-M0-P
16	Yes	Pin; .100” centers	GH7404-ND ***NEW!***	39.28	31.43	23.57	62S22-M5-P
16	No	6” Cable/Connector	GH7405-ND ***NEW!***	36.92	29.54	22.15	62S22-M0-060C
16	Yes	6” Cable/Connector	GH7406-ND ***NEW!***	40.30	32.24	24.18	62S22-M5-060C

NEW! Optical Rotary Encoders Series 62C

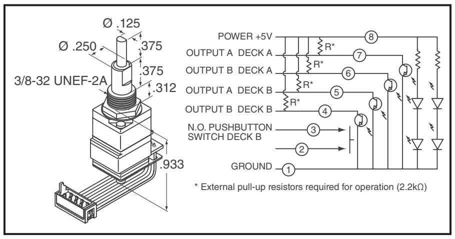

* External pull-up resistors required for operation (2.2kΩ)

Series 62C Concentric Shaft Encoders **Features:** • Economical Size • Combined Functionality • Optically coupled for more than a million cycles of operations • Optional Integral Pushbutton • Detent positions for each code section **Applications:** • Used to set radio frequency, drill depth, RPM, menu selection, parameter selection for patient monitoring devices **Specifications: Pushbutton Switch Rating:** • 5Vdc, 10mA, resistive • Contact Bounce: less than 4mS at make, less than 10mS at break • Actuation Life: 3,000,000 operations • Actution Force: 1,000 ± 300 grams **Encoder Ratings:** • Operating Voltage: 5 ±.25 Vdc • Supply Current: 50 mA maximum @ 5 Vdc • Operating Torque: 2.0 in.-oz. ± 1.4 in.-oz. • Rotational Life: >1 million cycles of operation • Operating Temperature: -40°C ~ 85°C

Detent Positions	Push-button	Termination	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
32/32	No	6” Cable/Connector	GH7375-ND	69.98	55.99	41.99	62C1111-01-060C
32/32	Yes	6” Cable/Connector	GH7376-ND	73.23	58.59	43.94	62C1111-02-060C
16/16	No	6” Cable/Connector	GH7377-ND	69.98	55.99	41.99	62C2222-01-060C
16/16	Yes	6” Cable/Connector	GH7378-ND	73.23	58.59	43.94	62C2222-02-060C
32/16	No	6” Cable/Connector	GH7379-ND	69.98	55.99	41.99	62C1122-01-060C
16/32	Yes	6” Cable/Connector	GH7380-ND	69.98	55.99	41.99	62C2211-01-060C

Optical Rotary Encoders Series 61C

Features: • Competitively priced to similar electromechanical switches • Optically coupled for more than a million trouble-free operations • Has data entry pushbutton switch activated by switch shaft • Compatible with CMOS, TTL and HCMOS Logic • Operationally used to move display icon and input data • Used to set radio frequency, drill depth, RPM, etc. Plastic shaft and bushing.
Specifications: • Dimensions: • Shaft: .250” (6.35mm) diameter, .375” (9.52mm) long **• Pin Spacing:** .1” x .025” (2.54mm x .64mm) diameter **• Thread:** 3/8 – 32 **• Overall Diameter:** .750” (19.05mm) **• Encoder Ratings: • Operating Voltage:** 5 ±.25VDC **• Supply Current:** 30mA maximum at 5VDC **• Life:** 1 million cycles of operation, 1 cycle is rotation through all positions and a full return **• Rotational Torque:** 1.5 inch-ounces ± 30% **• Load Current:** 5mA maximum per channel **• Turn-On Time:** ≤30 mSec at 16.6 RPM **• Turn-Off Time:** ≤30 mSec at 16.6 RPM **• Pushbutton Switch Ratings: • Rating:** at 5VDC, 10mA, resistive **• Contact Resistance:** <10Ω **• Life Expectancy:** 3 million operations **• Contact Bounce:** <4 mSec at make <10 mSec at break **• Operating Temperature Range:** -40°C ~ 70°C.

Clockwise Rotation		
	Output	Output
Position	A	B
1	❍	❍
2	●	❍
3	●	●
4	❍	●

● indicates logic high.
❍ indicates logic low.
Code repeats every 4 positions

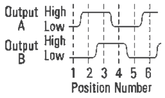

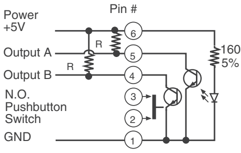

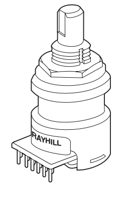

Position	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
16	GH6101-ND◆	24.50	19.60	14.70	12.25	61C22-01-04-02
32	GH6102-ND	24.50	19.60	14.70	12.25	61C11-01-08-02

◆ ***RoHS Compliant***

Industrial Optical Rotary Encoders

Series 61K, 61R, 63R

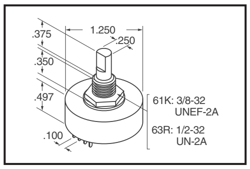

These rugged encoders are designed for continuous operations with high resolution. Made with stainless steel shaft and bushing for exceedingly long life (10 million life cycles).
Features: • High resolution • Rugged construction • Cable or pinned version • 10 million life cycles • 300 RPM shaft rotation • 61K is a 4 pin output • 61R is a 5 pin output • 63R is a 5 pin output with 500 million life cycles • 5,000 RPM Shaft Rotation • No detents **Specifications: • Operating Voltage:** 5 ± .25VDC **• Supply Current:** 30mA maximum at 5VDC **• Logic Output Characteristics:** Output Type: Open collector with integrated Schmitt Trigger and 10KΩ pull-up resistor. Maximum Sink Current: 16mA at .40 Volts. **• Power Consumption:** 150mW maximum **• Optical Rise Time:** 500ns **• Optical Fall Time:** 16ns **• Mechanical Life:** 10 million revolutions **• Time Life:** Guaranteed for 10 years of continuous operation (calculated from emitter degradation data) **• Operating Temperature Range:** -40°C ~ 85°C

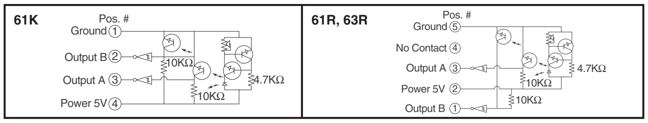

Description	Pulse Per Revolution	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
4 Pin PC Mount	64	GH3064-ND	48.77	39.02	34.14	30.24	61K64
4 Pin PC Mount	128	GH3065-ND	48.77	39.02	34.14	30.24	61K128
5” Cable/Connector	128	GH3066-ND	53.04	42.43	37.13	32.89	61K128-050
5 Pin PC Mount	64	GH3067-ND	48.77	39.02	34.14	30.24	61R64
5 Pin PC Mount	128	GH3068-ND	48.77	39.02	34.14	30.24	61R128
5 Pin PC Mount	256	GH7381-ND ***NEW!***	48.77	39.02	34.14	30.24	61R256
5 Pin PC Mount	64	GH7382-ND ***NEW!***	54.15	43.32	37.91	33.58	63R64
5 Pin PC Mount	128	GH3069-ND	54.15	43.32	37.91	33.58	63R128
5 Pin PC Mount	256	GH3070-ND	56.06	44.85	39.25	34.76	63R256

Note: Contact Digi-Key for cable versions

Optical Rotary Encoders Series 62P

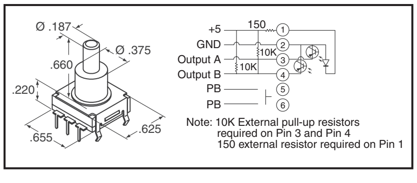

Note: 10K External pull-up resistors required on Pin 3 and Pin 4
150 external resistor required on Pin 1

Grayhill’s low cost, highly reliable Series 62P Optical Encoders are being designed into automotive controls, white goods, and audio.
Features: • Compact Size • PC Mount • No De-Bouncing • Up to 2 Million Cycles
Specifications: • Operating Voltage: 5VDC ±.25 VDC **• Supply Current:** 30mA @ 5VDC **• Logic Rise and Fall:** Less than 30Ms **• Operating Speed:** 100 RPM Maximum **• Operating Temperature:** -40°C ~ 85°C **Materials: • Shaft:** Thermoplastic **• Detent Rotor:** Reinforced Thermoplastic **• Bushing:** Thermoplastic **• Terminals:** Brass, Tin Plated

Pos-ition	Description	Digi-Key Part No.	Price Each 1	100	1000	Grayhill Part No.
16	High Torque	GH7291-ND	5.83	4.61	4.08	62P22-H0
	High Torque, 300 gF Pushbutton	GH7292-ND	5.98	4.73	4.19	62P22-H4
	High Torque, 450 gF Pushbutton	GH7293-ND	6.29	4.98	4.41	62P22-H6
16	Low Torque	GH7294-ND	5.36	4.24	3.76	62P22-L0
	Low Torque, 300 gF Pushbutton	GH7295-ND	5.98	4.73	4.19	62P22-L4
	Low Torque, 450 gF Pushbutton	GH7296-ND	6.29	4.98	4.41	62P22-L6

Grayhill

Mechanical Rotary Encoders Series 25L

The 25L series of encoders are inexpensive single deck mechanical encoders designed for human interface terminals.

Features: • Quality construction and contact materials • 100,000 life cycles • Has detents • PC mount

Specifications: • **Switching Loads:** 1.5mA @ 115VAC, resistive; 150mA @ 14VDC, resistive • **Life Expectancy:** 100,000 cycles of operation @ rated loads; one cycle of operation is a rotation through all of the active positions and a return to the starting position • **Operating Temperature:** -40°C ~ 85°C • **Materials and Finishes:** Bushing/Housing and Shaft: Reinforced Thermoplastic, Detent Ball: Stainless Steel, nickel-plated

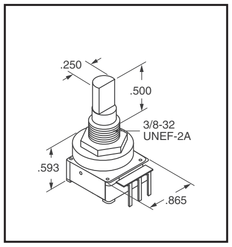

Detent Positions	Angle of Throw	Output Code	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
36	10°	Quadrature (2-bit)	GH3071-ND	5.09	4.08	3.06	2.55	25LB10-Q
32	11°	Quadrature (2-bit)	GH7407-ND ***NEW!***	5.09	4.08	3.06	2.55	25LB11-Q
24	15°	Quadrature (2-bit)	GH3072-ND	5.09	4.08	3.06	2.55	25LB15-Q
20	18°	Quadrature (2-bit)	GH7408-ND ***NEW!***	5.09	4.08	3.06	2.55	25LB18-Q
16	22.5°	Quadrature (2-bit)	GH3073-ND	5.09	4.08	3.06	2.55	25LB22-Q
16	22.5°	Hexadecimal (4-bit)	GH3074-ND	5.09	4.08	3.06	2.55	25LB22-H
16	22.5°	Gray (4-bit)	GH7299-ND	5.09	4.08	3.06	2.55	25LB22-G
12	30°	Quadrature (2-bit)	GH7409-ND ***NEW!***	5.09	4.08	3.06	2.55	25LB30-Q
8	45°	Quadrature (2-bit)	GH7410-ND ***NEW!***	5.09	4.08	3.06	2.55	25LB45-Q

Mechanical Rotary Encoders Series 26

The series 26 rotary encoders are PC mounted mechanical encoders that come complete with a threaded shaft (mounting hardware included) and internal detents for user feedback • User selectable for either continuous rotation or present stops (two supplied) • Gray code output - continuous rotation - no stop pins • Fully sealed with panel and shaft seal for use in the harshest environments. **Specifications:** • Electrical Rating: 25,000 cycles with logic compatible loads. Make and break 200mA **Materials and Finishes:** • **Panel Seal:** Silicone Rubber • **Shaft Seal:** Flourosilicone • **Detent Balls:** Carbon steel, nickel plated • **Terminals:** Brass, gold plated over nickel plate • **Contacts:** Copper alloy, gold plated over nickel plate • **Shaft, Stop Arm and Stop Pins**: Stainless Steel • **Bushings:** Zamak II tin/zinc alloy, zinc-plated

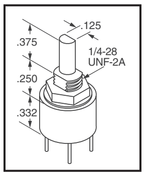

Code And Truth Table

Switch Position	Code Position	BCD Output* 1	2	4	8	Gray Output* 1	2	4	8
1	0								
2	1	●				●			
3	2		●			●	●		
4	3	●	●				●		
5	4			●			●	●	
6	5	●		●		●	●	●	
7	6		●	●		●		●	
8	7	●	●	●				●	
9	8				●			●	●
10	9	●			●	●		●	●
11	10		●		●	●	●	●	●
12	11	●	●		●		●	●	●
13	12			●	●		●		●
14	13	●		●	●	●	●		●
15	14		●	●	●	●			●
16	15	●	●	●	●				●

Detent Positions	Angle of Throw	Output Code	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
8	45°	Binary Code	GH3075-ND	15.31	12.25	9.19	7.66	26ASD45-01-1-AJS
8	45°	Gray Code	GH7411-ND ***NEW!***	25.98	20.79	15.59	12.99	26GSD45-01-1-AJS
16	22.5°	Binary Code	GH3076-ND	15.31	12.25	9.19	7.66	26ASD22-01-1-AJS
16	22.5°	Gray Code	GH7412-ND ***NEW!***	25.98	20.79	15.59	12.99	26GSD22-01-1-AJS
16	22.5°	Gray Code	GH3077-ND	23.47	18.78	14.09	11.74	26GS22-01-1-16S-C

* Dot indicates terminal tied to common.

Honeywell Sensing and Control **CLAROSTAT**

Optical Rotary Encoders Series: 600, 601H, 601V

Electrical Specifications:
• Description: The Series 600 and 601 controls are manually operated, rotary, optical encoders that output two square waves in quadrature at a rate of 128 pulses per channel per revolution as a standard with other resolutions down to 60 pulses available. The outputs are TTL compatible. The variation by series is the terminal configuration, with the Model 600 having (4) cable leads, and the Model 601 having (4) pin leads and internal resistors. • Input Power: 4 volts DC ±5% @ 30mA maximum plus external requirements • Output Rate: 128 pulses/revolution per channel-standard • Channels: Two separate output channels in quadrature. 90° ±45° • Output Voltage: High level voltage: 2.4 volts minimum with 10KΩ load to ground • Low level voltage: .4 volt maximum

Environmental Characteristics:
• Operating Temperature: -20°C ~ 65°C

Mechanical Characteristics:
• Shaft Rotation: Continuous in either direction, 300RPM maximum • Terminals: P/C Type: .025” (.64mm) by 0.12” (3.05mm) thick brass, gold plated to facilitate soldering • Cable Type: Four lead ribbon cable, color-coded, with .050” (1.27mm) spacing • 28AWG stranded copper wire, .039” (.99mm) diameter • Strength: Terminals withstand 2 pounds push and pull and a 90° bend.

Model 600 - Cable Style

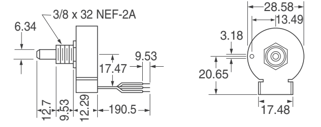

Model 601 - PC Terminal (Vertical)

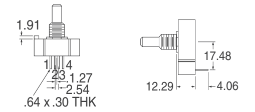

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
Cable Version	600CS-ND	27.70	600128CBL
Vertical PC Version	601VCS-ND	29.93	600EN-128-C24

CTS

Mechanical Rotary Encoders Series 288 and 290

	288 Series	290 Series
Body Size	16mm	9mm
Shaft Material	Metal	Metal
Operating Temperature	-25°C ~ 100°C	-30°C ~ 70°C
Switch Life	15,000 Actuations	100,000 Actuations
Resolution	16 CPR	20 CPR

Fig.	Description	Shaft Type	Dim. L (mm)	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
1A	2 Bit Non-Detent	Round	—	CT3001-ND◆	2.58	2.40	2.00	1.80	288T232R161A1
	2 Bit Detent		—	CT3002-ND◆	2.58	2.40	2.00	1.80	288T232R161A2
1B	2 Bit Detent	Round	—	CT2999-ND◆	5.42	5.04	4.19	3.78	288V232R161B2
1C	2 Bit Detent	Round	—	CT3000-ND◆	5.42	5.04	4.19	3.78	288X232R161B2
2	4 Bit Non-Detent	Round	—	CT3003-ND◆	3.50	3.26	2.71	2.45	288T232R162A1
3	2 Bit Non-Detent	Round	20	CT3004-ND	2.50	2.33	1.93	1.75	290VAB0R201A1
	2 Bit Detent			CT3005-ND◆	2.53	2.36	1.96	1.77	290VAB0R201A2
	2 Bit Non-Det., w/Switch			CT3006-ND◆	3.08	2.87	2.38	2.15	290VAB0R201B1
	2 Bit Detent, w/Switch			CT3007-ND◆	2.96	2.76	2.29	2.07	290VAB0R201B2
	2 Bit Non-Detent	Flatted	15	CT3008-ND◆	2.37	2.21	1.84	1.66	290VAA5F201A1
	2 Bit Detent			CT3009-ND◆	2.52	2.35	1.95	1.76	290VAA5F201A2
	2 Bit Non-Det., w/Switch			CT3010-ND◆	2.81	2.61	2.17	1.96	290VAA5F201B1
	2 Bit Detent, w/Switch			CT3011-ND◆	2.97	2.77	2.30	2.08	290VAA5F201B2

◆ ***RoHS Compliant***

Fig. 1 - Series 288 — Binary Switching Codes

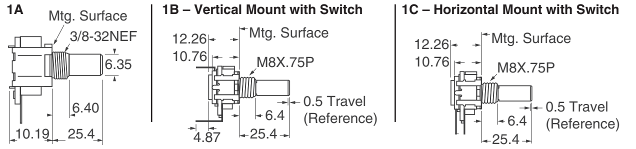

1A **1B – Vertical Mount with Switch** **1C – Horizontal Mount with Switch**

Fig. 2 - Series 288 — Gray Switching Code

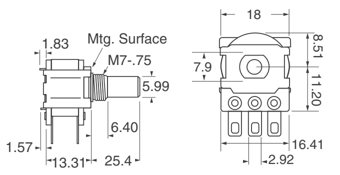

Fig. 3 - Series 290 — Commercial Miniature Encoder

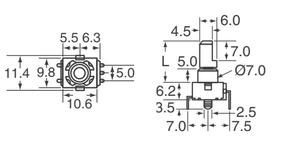

CUI INC

Modular 16 Resolutions Programmable AMT VersaPak Encoder

The code generation technology of the AMT modular encoder represents a breakthrough in cost versus resolution with benefits such as low current consumption, broad operating temperature range and a low profile, lightweight mechanical design. Benefits the AMT encoder offers over competitors include 16 selectable resolutions, index pulse included, more mounting options, and 9 bore size options all included in one package. **Features:** • Current Consumption: <10mA • Operating temperature range: -40°C ~ 100°C • Resolution: 16 dip switch selectable resolutions 48ppr ~ 2048ppr **Specifications:** • Index pulse • Straight or right angle header • Assembled in USA • 5 Year unconditional warranty • TTL voltage output • 2500+ options in 1 encoder (AMT102-V) or 1700+ options in AMT103-V • Avago HEDS5500 and US Digital E2 or E5 replacement. *VersaPak includes sleeve size to fit these diameter shafts: 2mm, 3mm, 3.175mm, 4mm, 4.76mm, 5mm, 6mm, 6.35mm and 8mm*

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	100	500	CUI Inc. Part No.
1	Modular Encoder Horizontal Version	102-1308-ND	29.95	28.50	26.00	23.00	21.00	AMT103-V
	Shielded Interface Cable Horizontal 1ft	102-1504-ND	4.15	2.93	—	2.40	2.14	CUI-435-1FT
	Shielded Interface Cable Horizontal 6ft	102-1310-ND	9.30	7.00	—	6.00	5.50	CUI-3934-6FT
2	Modular Encoder Vertical Version	102-1307-ND	29.95	28.50	26.00	23.00	21.00	AMT102-V
	Shielded Interface Cable Vertical 1ft	102-1503-ND	4.15	2.93	—	2.40	2.14	CUI-3132-1FT
	Shielded Interface Cable Vertical 6ft	102-1309-ND	7.20	5.76	—	4.80	4.48	CUI-3131-6FT

Fig. 1 – Horizontal

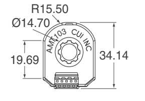

Fig. 2 – Vertical

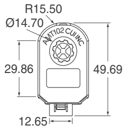

Panasonic Mechanical Rotary Encoders

Fig. 1

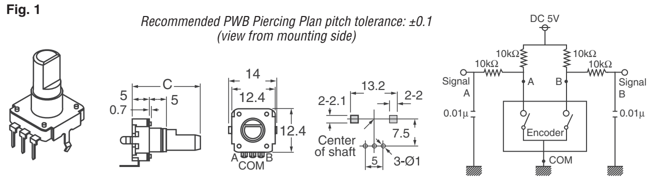

Fig. 2

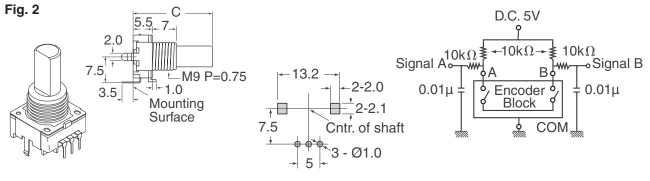

Fig. 3

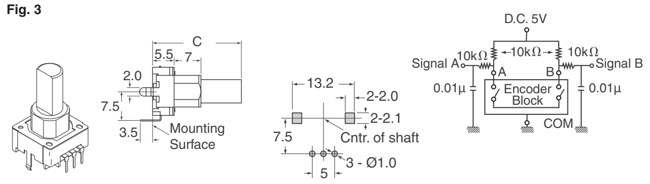

Fig. 4

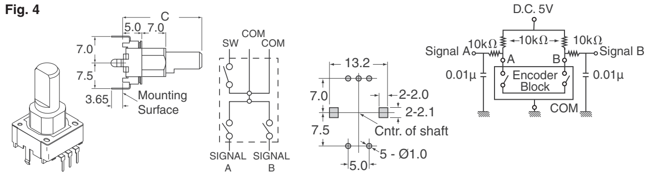

Specifications:

Mechanical: • Rotation Angle: 360° (endless) • Shaft Inclination: 0.7 x H/30 mm p-p max. • Rotation Torque: Standard type: 3mN-m to 20mN-m; EVE-K type: 10mN-m to 50mN-m

Electrical: • Output Signals: Phase A and B • Resolution: 12, 20, 24 pulses/360° • Rating: DC 5V/10V 1mA • Contact Resistance: 1Ω maximum • Insulation Resistance: DC 50V 10MΩ minimum • Dielectric Withstanding Voltage: 1 minute at 50VAC • Bouncing: 3/5 ms maximum

Physical, Environment Life: • Operating Life: Standard life: 30,000 cycles, minimum

Operating Temperature: -10°C ~ 60°C

Storage Temperature: -40°C ~ 85°C

Fig.	Descrip-tion	Dim. C (mm)	Detent/ Pulse	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	12(mm)	17.5	24/24	P10859-ND	1.52	1.35	.97	EVE-GA1F1724B
		20	24/24	P10860-ND	1.52	1.35	.97	EVE-GA1F2024B
		20	12/12	P12331-ND	.69	.58	.49	EVE-GA1F2012B
2	12(mm)	20	12/12	P12332-ND	.76	.64	.53	EVE-GC1F2012B
		20	–/24	P12334-ND	.76	.64	.53	EVE-KC2F2024B
3	12(mm)	20	12/12	P12333-ND	.64	.54	.45	EVE-GE1F2012B
		20	–/24	P12335-ND	.64	.54	.45	EVE-KE2F2024B
4	12(mm)	20	20/20	P12336-ND	1.57	1.31	1.10	EVE-JBBF2020B

Center Space Encoders

EVQ Series:
Encoder with a center space, which meets the requirements of multiple operation controllers.

Recommended Applications: • Car audio products (adjustment of volume, tone, tuners, etc.) • AV equipment (control of edit functions of VCRs, CD players, MD players, etc.) • Remote control of car navigation systems

Features: • Multiple unit construction can be achieved by mounting switches, LEDs, etc. in the through hole at the center (center space) on the printed wiring board. • High reliability • Ready for transparent shafts (to enhance the light diffusion)

Specifications:

Mechanical: • Rotation Angle: 360° (endless) • Detents: EVQ-1WF: 20 points; EVQ-WFP: 30 points

Electrical: • Output Signal: Phase A and B • Resolution: EVW-1WF: 10 pulses/360°; EVQ-WFP: 15 pulses/360° • Rating: 1mA, 10VDC • Contact Resistance: 1Ω maximum • Bouncing: 5 ms maximum • Insulation Resistance: 50MΩ minimum (at 250VDC) • Dielectric Withstanding Voltage: 300VAC for 1 minute

Endurance: • Rotation Life: EVW-1WF: 50,000 cycles minimum; EVQ-WFP: 30,000 cycles minimum

Operating Temperature: -40°C ~ 85°C

Fig. 1

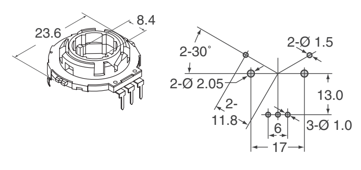

Fig. 2

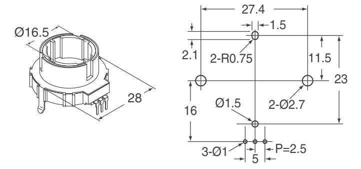

Fig.	Description	Detent/ Pulse	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	22(mm)	20/10	P12337-ND	2.05	1.71	1.44	EVQ-1WF00210B
2	27(mm)	30/15	P12419-ND	5.05	4.21	3.54	EVQ-WFP00415B

11mm Square Encoders with Push-lock Feature

Recommended Applications:
- Volume control or mode switch selector for car audio • Signal input for selector monitors and AV equipment

Features:
- New type encoder with a push-lock feature • EVQ-WEB includes an SPST NC switch
- Push-lock Travel: EVQ-WEB: 9mm maximum; EVQ-WEH: 8.4mm maximum

Specifications:

Mechanical: • Rotation Angle: 360° (endless) • Shaft Pull/Push Strength: 100N minimum • OP Force Switch: 7n maximum • Rotation Torque: EVQ-WEB: 3 mN·m to 20 mN·m; EVQ-WEH: 3 mN·m to 17 mN·m • Detents: 30 points

Electrical: • Resolution: 15 pulses/360° • Output Signal: A and B (2 Phases) • Rating: EVQ-WEB: 1mA, 10Vdc (encoder); 20mA, 16VDC (switch); EVQ-WEH: 1mA, 5Vdc (encoder); 10mA, 5Vdc (switch) • Contact Resistance: 1mΩ maximum • Insulation Resistance: EVQ-WEB: 50MΩ minimum (at 250VDC); EVQ-WEH: 100MΩ minimum (at 250VDC) • Dielectric Withstanding Voltage: 300VAC for 1 minute

Endurance: • Rotation Life (encoder): 15,000 cycles • Operating Life (Push-lock): 10,000 cycles

Operating Temperature:
EVQ-WEB: -20°C ~ 70°C; EVQ-WEH: -30°C ~ 85°C

Fig. 1

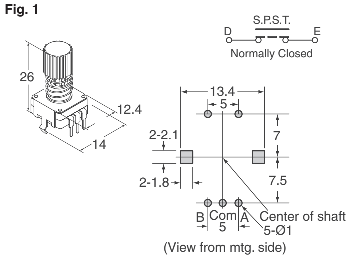

Fig. 2

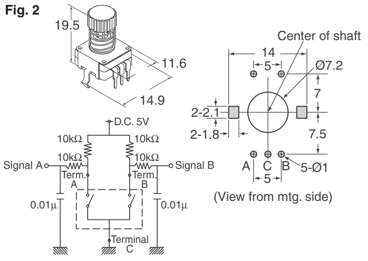

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	Rotary Encoder with SPST Switch	P12424-ND◆	11.47	9.56	8.03	EVQ- WEB00115B
2	Rotary Encoder, Vertical	P12425-ND	7.17	5.98	5.02	EVQ- WEH00115B

◆ *RoHS Compliant*

Edge Drive Jog Encoders

EVQWK Series:

Recommended Applications: • Menu selection and input for portable electronic equipment

Features:
- Excellent operation feeling • Push-on switch with a clear-click operation • Compact, thin profile • Reflow soldering

Specifications:

Mechanical:
- Encoder: • Detents: 15 points • Rotation Torque 1mN·m ~ 10mN·m • Push-on Switch: Travel: 0.3mm • Operating Force: 4.5N±1.5N

Electrical:
- Encoder: • Pulses: 15 • Output Signals: 2-phase (A and B) • Contact Resistance: 1Ω maximum • Push-on Switch: Contact Resistance: 100mΩ

Endurance:
- Encoder/Push-on Switch: Operating Life: 100,000 cycles minute

Fig. 1

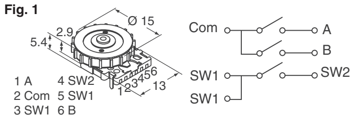

Fig. 2

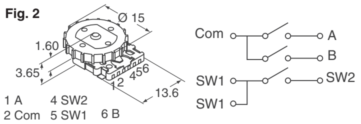

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 600	Panasonic Part No.
1	5.4mm SMD	P13382S-ND*	6.66	5.56	4.67	—	—	EVQ-WK4001
2	3.65mm SMD	P13381SCT-ND	9.35	7.01	6.08	P13381STR-ND	2102.40	EVQ-WKA001

* Bulk

Panasonic 11mm and 16mm Square Encoders

EVE-P/EVE-Q: Recommended Applications: • Centralized control of automotive audio equipment, navigation systems and air conditioners. **Features:** • Smooth, high rotational torque • Long life achieved by the high click torque • Runout protection: Runout: 0.1mm max. **Specifications: Mechanical:** • Rotation Angle: 360° (endless) • Rotation Torque: 40 mN·m maximum • Detents: EVE-P: 16; EVE-Q: 32 **Electrical:** • Output Signals: Phase A and B • Resolution: EVE-P 8 pulses/360°; EVE-Q 16 pulses/360° • Rating: 1mA, 10VDC (at each bit) • Contact Resistance: 1Ω maximum • Bouncing: 5 ms maximum • Insulation Resistance: 50MΩ minimum (at 250VDC) • Dielectric Withstanding Voltage: 300VAC for 1 minute **Switch Part:** • Type: SPST Push-on • Rating: 20mA, 16VDC • Contact Resistance: 100mΩ maximum • Operating Force: 6N • Travel: 0.5mm **Endurance:** • Rotation Life: 1,000,000 cycles minimum • Operating Life: 1,000,000 times minimum **Operating Temperature:** -40°C ~ 85°C (45-85% RH)

EVE-V: Recommended Applications: • Car audio, navigation systems and air conditioners. **Features:** • Low Profile: 4mm • Wave soldering type • Integrated push-ON switch **Specifications: Mechanical:** • Rotation Angle: 360° (endless) • Shaft Pull/Push Strength: 100 N·m minimum • Rotation Torque: 3 mN·m to 20 mN·m • Detents: 32 **Electrical:** • Output Signals: Phase A and B • Resolution: 16 pulses/360° • Rating: 1mA, 10VDC (at each bit) • Contact Resistance: 1Ω maximum • Insulation Resistance: 50MΩ minimum (at 250VDC) • Dielectric Withstanding Voltage: 300VAC for 1 minute • Bouncing: 5 ms maximum **Switch Part:** • Type: SPST Push-on • Rating: 20mA, 16VDC • Contact Resistance: 100mΩ maximum • Operating Force: 1.5mm travel type: 4N • Travel: 1.5mm **Endurance:** • Rotation Life (encoder): 30,000 cycles minimum • Operating Life (switch): 50,000 times minimum **Operating Temperature:** -40°C ~ 85°C

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	8 PPR, SPST, 16 Detents, 21.5mm Height	P12420-ND◆	10.55	8.80	7.39	EVE-PDBRG508B
	16 PPR, SPST, 32 Detents, 21.5mm Height	P12422-ND	9.86	8.23	6.91	EVE-QDBRG516B
2	8 PPR, SPST, 16 Detents, 25.4mm Height	P12421-ND◆	10.55	8.80	7.39	EVE-PDBRL408B
	16 PPR, SPST, 32 Detents, 25.4mm Height	P12423-ND	9.86	8.23	6.91	EVE-QDBRL416B
3	16 PPR, SPST, 32 Detents, 20mm Height	P12418-ND◆	3.21	2.68	2.25	EVE-VCGJL016B

◆ *RoHS Compliant*

Fig. 1

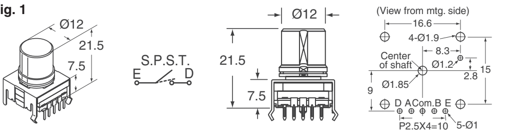

Fig. 2

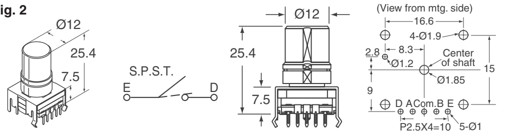

Fig. 3

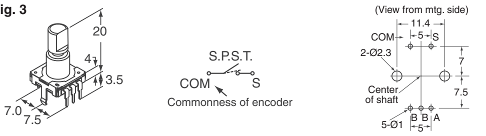

BOURNS 14mm Rotary Optical Encoder

Electrical Characteristics: • **Electrical Output:** 2-bit quadrature code • **Supply Voltage (V_{CC}):** 5.0VDC ±0.25 VDC • **Supply Current (I_{CC}):** 26mA maximum • **Output Voltage:** Low ($V_{CE(sat)}$), per Channel: 800mV maximum @ $I_{(SINK)}$=25mA; High ($V_{O(HI)}$), per Channel: 4.0VDC minimum @ V_{CC}=4.75VDC • **Output Current $I_{(SINK)}$, per Channel:** 25mA minimum • **Rise/Fall Time:** 200ns • **Power Dissipation:** 167mW maximum • **Pulse Width (per Channel):** 180°e • **Phase Angle (Channel A Leads Channel B, Clockwise Rotation):** 90°e ±45°e • **Insulation Resistance @ 500VDC:** 1,000MΩ minimum • **RPM (Operating):** Non-Dentent, 300 maximum • **Switch Power Rating:** 12VDC/20mA (600Ω maximum load) • **Switch Contact Resistance:** 200Ω maximum • **Mounting hardware included**

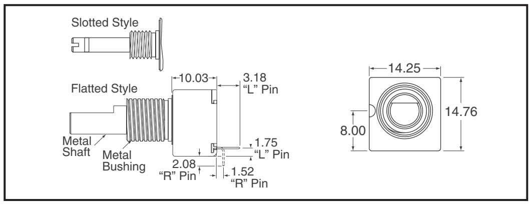

Bushing Dim. D x L (mm)	Shaft Dim. D x L (mm)	Shaft Style	Terminal Style	W/Switch Yes/No	Cycles Per Revolution	Digi-Key Part No.	Price Each 1	25	50
9.52 x 9.52	6.35 x 22.23	Slotted	Axial	Yes	8	EM14A0D-B28-L008S-ND	19.10	14.62	13.85
9.52 x 9.52	6.35 x 19.05	Flatted	Axial	No	8	EM14A0D-C24-L008N-ND	17.90	13.70	12.98
9.52 x 9.52	6.35 x 19.05	Flatted	Axial	No	32	EM14A0D-C24-L032N-ND	17.90	13.70	12.98
9.52 x 9.52	6.35 x 19.05	Flatted	Axial	Yes	64	EM14A0D-C24-L064S-ND	19.10	14.62	13.85
6.35 x 6.35	3.18 x 19.05	Slotted	Axial	Yes	64	EM14C0D-E24-L064S-ND	19.10	14.62	13.85
6.35 x 6.35	3.18 x 22.23	Slotted	Axial	No	16	EM14C0D-E28-L016N-ND	17.90	13.70	12.98
6.35 x 6.35	3.18 x 22.23	Slotted	Axial	No	64	EM14C0D-E28-L064N-ND	17.90	13.70	12.98
6.35 x 6.35	3.18 x 22.23	Slotted	Axial	Yes	64	EM14C0D-E28-L064S-ND	19.10	14.62	13.85

Digital Contacting Encoders

Electrical Characteristics: • Output: 2-bit gray code, Channel A leads Channel B by 90° electrically turning clockwise (CW) • Closed Circuit Resistance: 5Ω maximum • Open Circuit Resistance: 100kΩ minimum • Contact Rating: 10Milliamp @ 10VDC or 0.1 watt maximum • Insulation Resistance (500VDC): 1,000MΩ minimum • Dielectric Withstanding Voltage: 1,000VAC minimum • Electrical Travel: Continuous • Contact Bounce (15 RPM): 5 milliseconds maximum • RPM (Operating): 120 maximum **Environmental Characteristics:** • Operating Temperature Range: -40°C ~ 85°C **Mechanical Characteristics:** • Mechanical Angle: Continuous • Mounting hardware sold separately

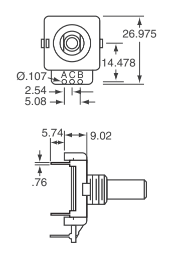

Anti-Rotation Lug Position	Cycles Per Revolution	Digi-Key Part No.	Price Each 1	25	50
None	24	ECW1D-B24-BC0024L-ND	3.46	2.70	2.20
9:00	24	ECW1J-B24-BC0024L-ND	3.46	2.70	2.20

Description	Digi-Key Part No.	Pricing 1	10	100	1,000
Lockwasher for ECW Encoder	H-37-2-ND	.16	1.24	7.47	59.85
Mounting Nut for ECW Encoder	H-38-11-ND	.53	4.13	24.90	199.50

Rotary Optical Encoders

Electrical Characteristics:

- Output: 2-bit gray code, Channel A leads Channel B by 90° electrically turning clockwise • Supply Voltage: 5.0VDC ±0.25VDC • Supply Current: 26mA maximum • Output Voltage: 0.8V maximum for low output and 4V minimum for high output • Output Current (Low Output): 25mA minimum • Insulation Resistance (500VDC): 1,000MΩ • Rise/Fall Time: 200ns (typical) • Shaft RPM (Ball Bearing): 3,000rpm maximum • Power Consumption: 136mW maximum • Pulse Width (Electrical Degrees, Each Channel): 180° ±45° Typical • Pulse Width (Index Channel): 360° ±90° • Phase (Electrical Degrees, Channel A to Channel B): 90° ±45° Typical • Index Channel Centered on 1-1 State Combination of A and B Channels: 0° ±45°

Environmental Characteristics:

- Operating Temperature Range (Standard): -40°C ~ 75°C

Mechanical Characteristics:

- Mechanical Rotation: Continuous
- Mounting hardware included

Fig. 1

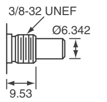

Fig. 2

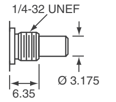

Fig. 3

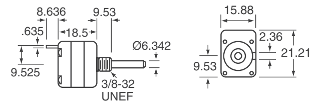

Fig.	Cycles Per Revolution	Digi-Key Part No.	Price Each 1	25	50
1	64	ENA1J-B28-L00064L-ND ***NEW!***	51.37	40.00	32.67
	100	ENA1J-B28-L00100L-ND	51.37	40.00	32.67
2	128	ENC1J-D28-L00128L-ND	51.37	40.00	32.67
3	256	ENS1J-B28-L00256L-ND	82.74	64.43	52.62

9mm Square/Sealed Encoder

Electrical Characteristics: • Output: 2-bit gray code, Channel A leads Channel B by electrically turning clockwise (CW): 6 pulses per resolution • Closed Circuit Resistance: 5Ω maximum • Open Circuit Resistance: 100kΩ minimum • Contact Rating: TTL compatible loads • Insulation Resistance (500VDC): 1,000MΩ minimum • Dielectric Withstanding Voltage: (Sea Level) 900VAC minimum; (Electrical Travel) Continuous • Contact Bounce (15 RPM): 5 milliseconds max. • RPM (Operating): 120 maximum **Environmental Characteristics:** • Operating Temperature Range: -40°C ~ 125°C • Rotational Life: 100,000 cycles **Mechanical Characteristics:** • Mechanical Angle: 360° Continuous • Mounting hardware included

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	100
1	9mm Square Right Angle Encoder	3315C-001-006L-ND	2.17	1.98	1.70	1.38
2	9mm Square Vertical Encoder	3315Y-001-006L-ND	2.77	2.45	2.06	1.76

Fig. 1

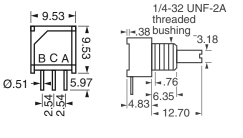

Fig. 2

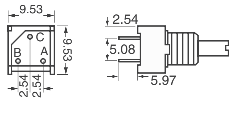

SMT Reed Relays

SPECIFICATIONS: • Life Expectancy: Varies with each series from a minimum of 100 x 10^6 operations to 1000 x 10^6 operations **• Insulation Resistance:** $10^{12}\Omega$ **• Storage Temperature:** -35°C ~ 100°C **• Operating Temperature:** -20°C ~ 85°C **• Vibration:** 20 G's to 2000 Hz; Shock: 50 G's
APPLICATIONS: Automated Test Equipment, Instrumentation and Telecommunications requirements.

RoHS COMPLIANT

Dimensions: Inches (mm)

Fig. 1

High reliability, hermetically sealed contacts for long life. Low profile – 0.190" height. Meets high board density requirements. 50Ω Coaxial Shield for RF and Fast Rise Time Pulse switching.

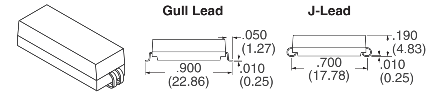

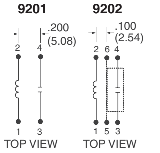

Fig. 2

Small surface mount package (0.225" x 0.550"). Low capacitance (Contact to Shield – 1.1 pF typical). Coaxial shield for 50V impedance. Excellent for RF and Fast Rise Time Pulse switching (up to 2.0 GHz).

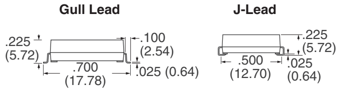

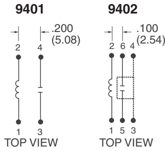

Fig. 3

Coto's 9800 Series is an ultra-miniature Surface Mount Reed Relay that combines small size with exceptional RF performance. 9814 extends life at ATE loads 3X or more utilizing Coto's proprietary switch technology. The external Magnetic Shield reduces interaction between parts in high density boards. 9852 adds a form C capability. Small size plus added features allow for high density packing, and make these relays ideal for designs such as high speed, high pin count VLSI testers where speed, size and performance are all needed.

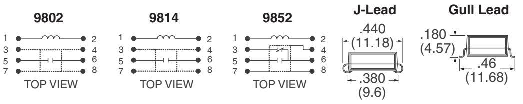

Fig. 4

High reliability, hermetically sealed contacts for long life. Low profile 0.193" maximum height. Minimum Footprint .140" Square 50Ω Co-axial Shield for RF and Fast Rise Time Pulse switching. UL Recognized.

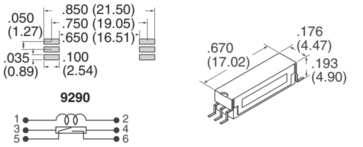

Fig. 5

Coto's 9900 Series is the smallest Surface Mount Reed Relay available. The external coaxial shield reduces interaction between parts in high density boards. Ideal for high speed, high pin count VLSI testers where speed, size and performance are all needed.

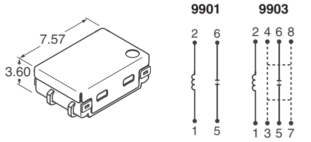

Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	100	Coto Part No.
1	SPST	5	20	0.5	1.5	SMT - J-Lead	306-1068-ND	7.05	5.97	5.00	4.07	9201-05-20
	SPST	5	20	0.5	1.5	50Ω Coaxial Shield, Gull Lead	306-1069-ND	7.28	6.16	5.16	4.20	9202-05-00
	SPST	5	20	0.5	1.5	50Ω Coaxial Shield, J-Lead	306-1070-ND	7.28	6.16	5.16	4.20	9202-05-20
2	SPST	5	20	0.5	1	SMT - Gull Lead	306-1071-ND	8.06	6.82	5.71	4.65	9401-05-00
	SPST	12	14.5	0.5	1	SMT - Gull Lead	306-1072-ND	8.06	6.82	5.71	4.65	9401-12-00
	SPST	5	25	0.5	1	50Ω Coaxial Shield, Gull Lead	306-1119-ND	8.65	7.32	6.12	4.99	9402-05-00
	SPST	5	20	0.5	1	50Ω Coaxial Shield, J-Lead	306-1073-ND	8.65	7.32	6.12	4.99	9402-05-20
	SPST	12	14.5	0.5	1	50Ω Coaxial Shield, Gull Lead	306-1074-ND	8.65	7.32	6.12	4.99	9402-12-00
3	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, Gull Lead	306-1075-ND	9.02	7.81	6.68	5.73	9802-05-00
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, J-Lead	306-1076-ND	9.02	7.81	6.68	5.73	9802-05-20
	SPST	3.3	47.1	0.25	0.5	50Ω Coaxial Shield, Gull Lead	306-1156-5-ND	10.17	8.80	7.53	6.46	9814-03-00
	SPST	3.3	47.1	0.25	0.5	50Ω Coaxial Shield, SMD Axial	306-1157-5-ND	10.17	8.80	7.53	6.46	9814-03-10
	SPST	3.3	47.1	0.25	0.5	50Ω Coaxial Shield, J-Lead	306-1158-5-ND	10.17	8.80	7.53	6.46	9814-03-20
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, Gull Lead	306-1159-5-ND	10.17	8.80	7.53	6.46	9814-05-00
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, SMD Axial	306-1160-5-ND	10.17	8.80	7.53	6.46	9814-05-10
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, J-Lead	306-1161-5-ND	10.17	8.80	7.53	6.46	9814-05-20
	SPDT	3.3	47.1	0.1	0.2	50Ω Coaxial Shield, Gullwing	306-1162-5-ND	30.93	27.26	23.94	21.73	9852-03-00
	SPDT	3.3	47.1	0.1	0.2	50Ω Coaxial Shield, SMD Axial	306-1163-5-ND	30.93	27.26	23.94	21.73	9852-03-10
	SPDT	3.3	47.1	0.1	0.2	50Ω Coaxial Shield, J-Lead	306-1164-5-ND	30.93	27.26	23.94	21.73	9852-03-20
	SPDT	5	45.4	0.1	0.2	50Ω Coaxial Shield, Gullwing	306-1165-5-ND	30.93	27.26	23.94	21.73	9852-05-00
	SPDT	5	45.4	0.1	0.2	50Ω Coaxial Shield, SMD Axial	306-1166-5-ND	30.93	27.26	23.94	21.73	9852-05-10
	SPDT	5	45.4	0.1	0.2	50Ω Coaxial Shield, J-Lead	306-1167-5-ND	30.93	27.26	23.94	21.73	9852-05-20
4	SPST	5	31	0.5	1.5	50Ω EMI Shield, Low Profile	306-1141-ND	6.76	5.72	4.79	3.90	9290-05-00
	SPST	12	20	0.5	1.5	50Ω EMI Shield, Low Profile	306-1142-ND	6.76	5.72	4.79	3.90	9290-12-00
5	SPST	5	33.3	0.25	0.50	SMT - J-Lead	306-1197-ND	8.81	7.63	6.53	5.60	9901-05-20
	SPST	5	33.3	0.25	0.50	50Ω Coaxial Shield, J-Lead	306-1198-ND	11.18	9.68	8.28	7.10	9903-05-20

I

Reed Relays

RoHS COMPLIANT

SPECIFICATIONS: • Life Expectancy: Varies with each series from a minimum of 100 x 10^6 operations to 1000 x 10^6 operations **• Insulation Resistance:** $10^{12}\Omega$ **• Storage Temperature:** -35°C ~ 100°C **• Operating Temperature:** -20°C ~ 85°C **• Vibration:** 20 G's to 2000 Hz; Shock: 50 G's

Dimensions: Inches (mm)

Fig. 1

The 2200 Series is ideally suited to the needs of Automated Test Equipment and RF requirements. High speed switching compared to electromechanical relays. Hermetically sealed contacts for long life. Epoxy coated steel shell provides magnetic shielding. Optional Electrostatic Shield for reducing capacitive coupling

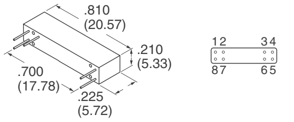

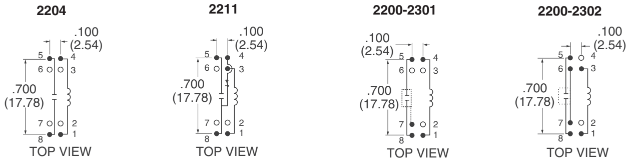

Fig. 2

The Coto 2300 Series was designed to offer the densest packaging available in a multiple reed relay. The size and footprint of the 2300 series compliment the 2200 and 2900 series relays. The 1 Form C model is constructed with individual switch capsules for the normally open and magnetically biased normally closed contacts which are more reliable than the spring actuated 1 Form C reed switches.

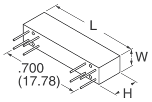

Series	Dimensions - Inches (mm) L	W	H
2332/2333 2341/2342	.810 (20.57)	.210 (5.33)	.370 (9.40)
2904/2911	.820 (20.83)	.250 (6.35)	.280 (7.11)

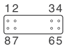

Top View Shown

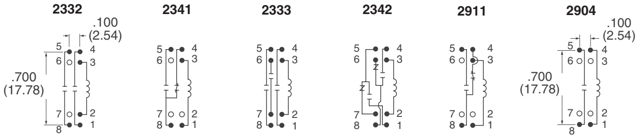

Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	100	Coto Part No.
1	SPST	5	33.3	0.5	1.0	With Electrostatic Shield	306-1001-ND	9.52	8.24	7.05	6.04	2200-2301
	SPST	5	33.3	0.5	1.0	With Coaxial Shield	306-1002-ND	9.75	8.44	7.22	6.19	2200-2302
	SPST	5	13.5	0.5	1.0	—	306-1003-ND	8.61	7.45	6.38	5.47	2204-05-401
	SPST	5	13.5	0.5	1.0	With Electrostatic Shield	306-1004-ND	8.87	7.68	6.57	5.63	2204-05-411
	SPST	12	8	0.5	1.0	—	306-1105-ND	8.76	7.59	6.49	5.57	2204-12-301
	SPST	12	8	0.5	1.0	With Electrostatic Shield	306-1005-ND	9.02	7.81	6.68	5.73	2204-12-311
	SPDT	5	21.8	0.25	0.5	—	306-1006-ND	12.01	10.59	9.30	8.44	2211-05-301
	SPDT	12	8	0.25	0.5	—	306-1007-ND	12.24	10.79	9.48	8.60	2211-12-301
2	DPST	5	28.5	0.5	1.5	—	306-1106-ND	8.87	7.68	6.57	5.63	2332-05-000
	DPST	12	12	0.5	1.5	—	306-1008-ND	8.87	7.68	6.57	5.63	2332-12-000
	SPDT	5	28.5	0.5	1.5	—	306-1107-ND	12.35	10.69	9.15	7.84	2341-05-000
	SPDT	12	12	0.5	1.5	—	306-1108-ND	12.35	10.69	9.15	7.84	2341-12-000
	3PST	5	28.5	0.5	1.5	—	306-1109-ND	11.05	9.57	8.19	7.02	2333-05-000

(Continued)

Dimensions: Inches (mm)

Fig. 3

The 5500 Series High Voltage Reed Relays are ideally suited to the needs of Instrumentation Industrial Process Controls and General Purpose requirements. High Dielectric Strength - 10,000 Volts isolation across contacts. Hermetically sealed Tungsten contacts for long life. Low contact resistance - 0.030Ω typical. Magnetic Shield standard.

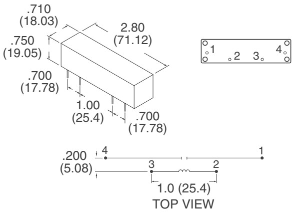

Fig. 4

The 7000 Series is ideally suited to the needs of Instrumentation, Data Acquisition, Process Control, Telecommunications and General Purpose requirements. These models are specifically designed for high quality and reliability with versatile switching capabilities and contact forms. Wide range of switching capabilities. Potted in metal shell - Magnetic Shield. PCB mounting versatility - 1.0" x 0.100" grid.

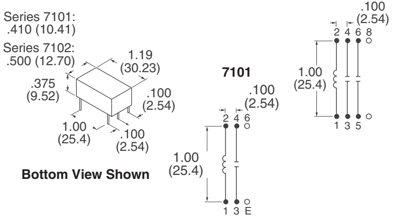

Fig. 5

The 8000 Series Dip Relay is ideal for the high reliability of ATE, Instrumentation and Data Acquisition applications. Proven to 500 million operations. The Coto 8L Spartan Series relays combine Coto quality and economy in the industry standard 14 pin molded DIP package. This series will cross to all competitive DIP packages and is ideal for telecom, security, and other general purpose applications.

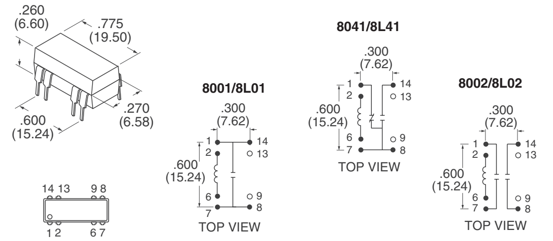

Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each				Coto Part No.
								1	10	50	100	
2	3PST	12	12	0.5	1.5	—	306-1110-ND	11.05	9.57	8.19	7.02	2333-12-000
	DPDT	5	28.5	0.25	0.5	—	306-1111-ND	13.65	12.03	10.57	9.59	2342-05-000
	DPDT	12	12	0.25	0.5	—	306-1112-ND	13.65	12.03	10.57	9.59	2342-12-000
	SPDT	5	13.5	0.25	1.0	With Coaxial Shield	306-1113-ND	11.87	10.46	9.19	8.34	2911-05-321
	SPDT	12	8	0.25	1.0	With Coaxial Shield	306-1114-ND	12.01	10.59	9.30	8.44	2911-12-321
	SPST	12	8	0.5	1.5	—	306-1009-ND	9.18	7.95	6.80	5.83	2904-12-301
3	SPST	12	68.6	3.0	5.0	High Voltage - 7500V	306-1010-ND	22.94	20.73	19.70	18.66	5501-12-1
	SPST	24	41.7	3.0	5.0	High Voltage - 7500V	306-1011-ND	23.37	21.12	20.07	19.01	5501-24-1
4	SPST	12	16.7	0.5	2.0	High Reliability with E.S.	306-1012-ND	12.48	10.80	9.24	7.92	7101-12-1010
	SPST	12	16.7	0.5	2.0	High Reliability with E.S. and Diode	306-1013-ND	11.78	10.38	9.12	8.28	7101-12-1011
	DPST	12	16.7	0.5	2.0	High Reliability with E.S.	306-1014-ND	12.05	10.62	9.33	8.47	7102-12-1010
	DPST	12	16.7	0.5	2.0	High Reliability wtih E.S. and Diode	306-1015-ND	13.73	12.10	10.63	9.65	7102-12-1011
5	SPST	5	10	0.5	1.0	Extended Lifetime	306-1016-ND	4.52	3.83	3.20	2.61	8001-05-001
	DPST	5	25	0.5	1.0	Extended Lifetime with E.S.	306-1017-ND	6.27	5.31	4.44	3.62	8002-05-10
	DPST	12	24	0.5	1.0	Extended Lifetime	306-1192-ND	6.08	5.15	4.31	3.51	8002-12-00
	SPDT	5	25	0.25	0.5	Extended Lifetime	306-1018-ND	7.77	6.58	5.50	4.49	8041-05-001
	SPST	5	10	0.5	1.0	Economy	306-1019-ND	2.37	2.01	1.68	1.37	8L01-05-001
	SPST	5	10	0.5	1.0	Economy with Diode	306-1020-ND	2.54	2.15	1.80	1.47	8L01-05-011
	SPST	5	10	0.5	1.0	Economy with E.S.	306-1021-ND	2.54	2.15	1.80	1.47	8L01-05-101
	SPST	5	10	0.5	1.0	Economy with E.S. and Diode	306-1022-ND	2.73	2.31	1.94	1.58	8L01-05-111
	SPST	12	24	0.5	1.0	Economy	306-1023-ND	2.37	2.01	1.68	1.37	8L01-12-001
	SPST	12	24	0.5	1.0	Economy with Diode	306-1024-ND	2.54	2.15	1.80	1.47	8L01-12-011
	SPST	12	24	0.5	1.0	Economy with E.S. and Diode	306-1026-ND	2.73	2.31	1.94	1.58	8L01-12-111
	SPST	24	11.1	0.5	1.0	Economy	306-1027-ND	2.54	2.15	1.80	1.47	8L01-24-001
	SPST	24	11.1	0.5	1.0	Economy with Diode	306-1028-ND	2.73	2.31	1.94	1.58	8L01-24-011
	SPST	24	11.1	0.5	1.0	Economy with E.S.	306-1029-ND	2.73	2.31	1.94	1.58	8L01-24-101
	SPST	24	11.1	0.5	1.0	Economy with E.S. and Diode	306-1030-ND	2.96	2.51	2.10	1.71	8L01-24-111
	DPST	5	25	0.5	1.0	Economy	306-1031-ND	3.51	2.97	2.49	2.03	8L02-05-00
	DPST	5	25	0.5	1.0	Economy with Diode	306-1032-ND	3.71	3.14	2.63	2.14	8L02-05-01
	DPST	5	25	0.5	1.0	Economy with E.S.	306-1033-ND	3.71	3.14	2.63	2.14	8L02-05-10
	DPST	5	25	0.5	1.0	Economy with E.S. and Diode	306-1034-ND	3.93	3.33	2.79	2.27	8L02-05-11
	DPST	12	24	0.5	1.0	Economy	306-1035-ND	3.51	2.97	2.49	2.03	8L02-12-00
	DPST	12	24	0.5	1.0	Economy with Diode	306-1036-ND	3.71	3.14	2.63	2.14	8L02-12-01
	DPST	12	24	0.5	1.0	Economy with E.S.	306-1037-ND	3.71	3.14	2.63	2.14	8L02-12-10
	DPST	12	24	0.5	1.0	Economy with E.S. and Diode	306-1038-ND	3.93	3.33	2.79	2.27	8L02-12-11
	DPST	24	11.1	0.5	1.0	Economy	306-1039-ND	3.71	3.14	2.63	2.14	8L02-24-00
	DPST	24	11.1	0.5	1.0	Economy with Diode	306-1040-ND	3.93	3.33	2.79	2.27	8L02-24-01
	DPST	24	11.1	0.5	1.0	Economy with E.S. and Diode	306-1042-ND	4.13	3.50	2.93	2.39	8L02-24-11
	SPDT	5	25	0.25	0.5	Economy	306-1043-ND	5.07	4.29	3.59	2.93	8L41-05-001
	SPDT	5	25	0.25	0.5	Economy with Diode	306-1044-ND	5.27	4.46	3.73	3.04	8L41-05-011
	SPDT	5	25	0.25	0.5	Economy with E.S.	306-1045-ND	5.27	4.46	3.73	3.04	8L41-05-101
	SPDT	5	25	0.25	0.5	Economy with E.S. and Diode	306-1046-ND	5.46	4.62	3.87	3.15	8L41-05-111
	SPDT	12	24	0.25	0.5	Economy	306-1047-ND	5.07	4.29	3.59	2.93	8L41-12-001
	SPDT	12	24	0.25	0.5	Economy with Diode	306-1048-ND	5.27	4.46	3.73	3.04	8L41-12-011
	SPDT	12	24	0.25	0.5	Economy with E.S.	306-1050-ND	5.27	4.46	3.73	3.04	8L41-12-101
	SPDT	12	24	0.25	0.5	Economy with E.S. and Diode	306-1051-ND	5.46	4.62	3.87	3.15	8L41-12-111
	SPDT	24	11.1	0.25	0.5	Economy	306-1052-ND	5.27	4.46	3.73	3.04	8L41-24-001
	SPDT	24	11.1	0.25	0.5	Economy with E.S.	306-1053-ND	5.46	4.62	3.87	3.15	8L41-24-101
	SPDT	24	11.1	0.25	0.5	Economy with E.S. and Diode	306-1054-ND	5.66	4.79	4.01	3.27	8L41-24-111
6	SPST	5	10	0.5	1.5	Extended Lifetime	306-1055-ND	4.13	3.50	2.93	2.39	9001-05-00
	SPST	5	10	0.5	1.5	Extended Lifetime with Diode	306-1056-ND	4.32	3.66	3.06	2.50	9001-05-01
	SPST	12	12	0.5	1.5	Extended Lifetime	306-1057-ND	4.13	3.50	2.93	2.39	9001-12-00
	SPST	12	12	0.5	1.5	Extended Lifetime with Diode	306-1058-ND	4.32	3.66	3.06	2.50	9001-12-01
	SPST	5	10	0.5	1.5	50Ω Coaxial Shield	306-1059-ND	5.36	4.54	3.80	3.10	9002-05-00
	SPST	5	10	0.5	1.5	50Ω Coaxial Shield with Diode	306-1060-ND	5.53	4.68	3.91	3.19	9002-05-01
	SPST	12	16	0.5	1.5	50Ω Coaxial Shield	306-1118-ND	5.36	4.54	3.80	3.10	9002-12-00
	SPST	12	12	0.5	1.5	50Ω Coaxial Shield with Diode	306-1061-ND	5.53	4.68	3.91	3.19	9002-12-01
	SPST	5	10	0.5	1.0	Economy	306-1062-ND	1.59	1.35	1.13	.92	9007-05-00
	SPST	5	10	0.5	1.0	Economy with Diode	306-1063-ND	1.69	1.43	1.20	.98	9007-05-01
	SPST	12	12	0.5	1.0	Economy	306-1064-ND	1.59	1.35	1.13	.92	9007-12-00
	SPST	5	10	0.5	1.0	Economy	306-1115-ND	1.79	1.52	1.27	1.04	9081-05-00
	SPST	24	12	0.5	1.0	Economy	306-1117-ND	1.95	1.65	1.38	1.13	9081-24-00
	SPST	5	10	0.5	1.0	With EMI Shield	306-1138-ND	1.85	1.57	1.32	1.07	9081-05-10
	SPST	5	10	0.25	1.5	Miniature Sip	306-1065-ND	4.42	3.74	3.13	2.55	9091-05-00
	SPST	5	10	0.25	1.5	Miniature Sip with Diode	306-1066-ND	4.58	3.88	3.25	2.65	9091-05-01
	SPST	12	12	0.25	1.5	Miniature Sip with Diode	306-1067-ND	4.58	3.88	3.25	2.65	9091-12-01
7	SPDT-C/O	5	40	0.4	1.0	Standard Version	306-1175-ND	5.07	4.29	3.59	2.93	9081C-05-00
	SPDT-C/O	5	40	0.4	1.0	With EMI Shield	306-1176-ND	5.49	4.65	3.89	3.17	9081C-05-10
	SPDT-C/O	12	24	0.4	1.0	Standard Version	306-1177-ND	5.17	4.38	3.66	2.99	9081C-12-00
	SPDT-C/O	12	24	0.4	1.0	With EMI Shield	306-1178-ND	5.59	4.73	3.96	3.23	9081C-12-10
	SPDT-C/O	24	12	0.4	1.0	Standard Version	306-1179-ND	5.27	4.46	3.73	3.04	9081C-24-00
	SPDT-C/O	24	12	0.4	1.0	With EMI Shield	306-1180-ND	5.69	4.82	4.03	3.29	9081C-24-10
8	SPST	5	10	0.25	0.5	With EMI Shield	306-1130-ND	7.70	6.52	5.46	4.45	9011-05-10
	SPST	5	10	0.25	0.5	With EMI Shield and Diode	306-1131-ND	7.96	6.74	5.64	4.60	9011-05-11
	SPST	12	16	0.25	0.5	With EMI Shield	306-1132-ND	8.06	6.82	5.71	4.65	9011-12-10
	SPST	12	16	0.25	0.5	With EMI Shield and Diode	306-1133-ND	8.32	7.04	5.89	4.80	9011-12-11
	SPST	5	10	0.5	1.5	With EMI Shield	306-1134-ND	6.27	5.31	4.44	3.62	9012-05-10
	SPST	5	10	0.5	1.5	With EMI Shield and Diode	306-1135-ND	6.53	5.53	4.63	3.77	9012-05-11

(Continued)

Reed Relays *(Cont.)*

Dimensions: Inches (mm)

Fig. 6

The SIP relay is the industry choice for a wide variety of designs where economy, performance and a compact package are needed. The 9007 Spartan Series is a general purpose economy version of the 9001 for applications with less stringent requirements. The 9081 Spartan Series is similar to the 9007, but with alternate industry standard footprints to accommodate other options, including Form C types. These relays are well suited for applications in Security, Instrumentation and Modems.

	Dimensions - Inches (mm)			
Series	**L**	**W**	**H**	**C**
9001/ 9007	.760 (19.30)	.200 (5.08)	.300 (7.62)	.200 (5.08)
9002	.760 (19.30)	.200 (5.08)	.300 (7.62)	.100 (2.54)
9091	.600 (15.24)	.150 (3.81)	.275 (6.98)	.150 (3.81)
9081	.890 (22.61)	.275 (6.99)	.315 (8.0)	.200 (5.08)

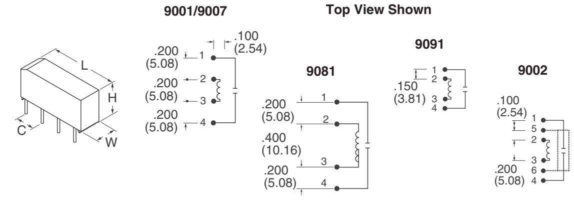

Fig. 7

The SIP relay is the industry choice for a wide variety of designs where economy, performance and a compact package are needed. The 9081C are 2 x SPST-C/O relays offered in industry standard packages. Use 9081C (.2 x .4 x .2) SIP for industry standard footprint applications or 9081C1 (.2 x .2 x .2 x .2) for standard footprint applications requiring a SPDT function. These relays are well-suited for applications in Security, Instrumentation and Modems.

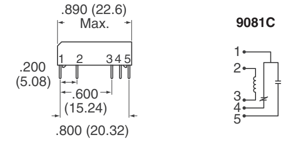

Fig. 8

The 9012 package dimensions are 47% smaller than standard 9000 SIPs, yet the relay retains the 10W switch ratings of its larger counterparts. The 9011 package dimensions are 65% smaller than the standard 9000 SIPs and incorporates the RI-70 switch rated 3W. The 9117 goes one step further, reducing package size by 65% from standard 9000 SIP's. This is the smallest SIP footprint with a 3W rating. These miniature SIP relays are ideal for use in ATE applications and other high reliability test, measurements and telecommunications applications where high board density and long life are key requirements.

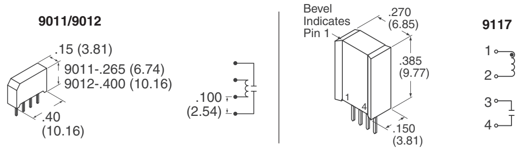

Fig. 9

The 9092 model, because of its increased height, allows for incorporation of 2 form A switches in the same board space. These miniature SIP relays utilize Coto's 10W switch technology, making these SIP relays ideal for use in ATE applications and other high reliability test, measurement and telecommunications applications where high board density and long life are key requirements.

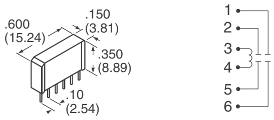

Fig. 10

The 9104 Series adds high voltage switching 1000V capability and high voltage standoff capability to a SIP relay package. These high voltage, high performance relays are ideally suited for Automatic Test Equipment, Instrumentation, and Process Control applications where voltage isolation is a key design requirement.

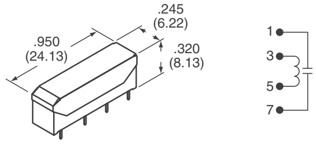

Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	100	Coto Part No.
8	SPST	12	16	0.5	1.5	With EMI Shield	306-1136-ND	6.60	5.59	4.67	3.81	9012-12-10
	SPST	12	16	0.5	1.5	With EMI Shield and Diode	306-1137-ND	6.86	5.81	4.86	3.96	9012-12-11
	SPST	5	12	0.25	0.5	With EMI Shield	306-1181-ND	11.13	9.63	8.24	7.07	9117-05-10
	SPST	5	12	0.25	0.5	With EMI Shield and Diode	306-1182-ND	11.28	9.77	8.36	7.17	9117-05-11
9	DPST	5	13.3	0.5	1.2	With EMI Shield	306-1183-ND	10.82	9.36	8.01	6.87	9092-05-10
	DPST	5	13.3	0.5	1.2	With EMI Shield and Diode	306-1185-ND	10.97	9.50	8.13	6.97	9092-05-11
	DPST	12	16	0.5	1.2	With EMI Shield	306-1184-ND	10.87	9.41	8.05	6.90	9092-12-10
	DPST	12	16	0.5	1.2	With EMI Shield and Diode	306-1186-ND	11.00	9.52	8.15	6.98	9092-12-11
10	SPST	5	28.5	0.5	1.3	With EMI Shield	306-1193-ND	10.82	9.36	8.01	6.87	9104-05-10
	SPST	5	28.5	0.5	1.3	With EMI Shield and Diode	306-1194-ND	10.97	9.50	8.13	6.97	9104-05-11
	SPST	12	24	0.5	1.3	With EMI Shield	306-1195-ND	10.87	9.41	8.05	6.90	9104-12-10
	SPST	12	24	0.5	1.3	With EMI Shield and Diode	306-1196-ND	11.00	9.52	8.15	6.98	9104-12-11

High Voltage Reed Relays

Very high isolation voltage is achieved through the use of high vacuum reed switches with Tungsten contacts that makes these relays well suited for high reliability applications such as cardiac defibrillators, test equipment and high voltage power supplies.

Dimensions: Inches (mm)

Fig. 1

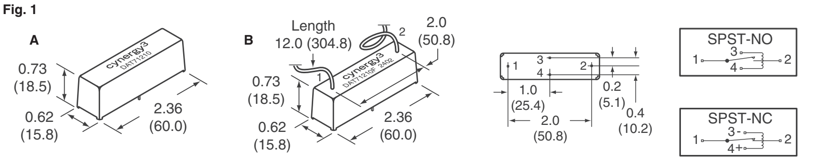

PCB Only Type **Flying Lead Type**

Fig. 2

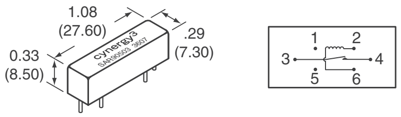

Miniature Package Type

Fig.	Circuit	Coil Voltage (VDC)	Isolation Voltage (kV)	Switching Power (W)	Switching Voltage (kV)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	100	Cynergy3 Part No.
						10kV ~ 15kV Relays						
1A	SPST-NO	5	10	50	7	PCB only	725-1027-ND	24.63	23.45	22.27	21.67	DAT70510
1B	SPST-NO	5	10	50	7	Flying Leads	725-1028-ND	30.22	28.77	27.33	26.61	DAT70510F
1A	SPST-NO	5	15	50	10	PCB only	725-1029-ND	35.87	34.15	32.43	31.57	DAT70515
1A	SPST-NO	12	10	50	7	PCB only	725-1030-ND	24.63	23.45	22.27	21.67	DAT71210
1B	SPST-NO	12	10	50	7	Flying Leads	725-1031-ND	30.22	28.77	27.33	26.61	DAT71210F
1A	SPST-NO	12	15	50	10	PCB only	725-1032-ND	35.87	34.15	32.43	31.57	DAT71215
1B	SPST-NO	12	15	50	10	Flying Leads	725-1033-ND	41.47	39.48	37.50	36.50	DAT71215F
1A	SPST-NO	24	10	50	7	PCB only	725-1034-ND	24.63	23.45	22.27	21.67	DAT72410
1B	SPST-NO	24	10	50	7	Flying Leads	725-1035-ND	30.22	28.77	27.33	26.61	DAT72410F
1A	SPST-NO	24	15	50	10	PCB only	725-1036-ND	35.87	34.15	32.43	31.57	DAT72415
1B	SPST-NO	24	15	50	10	Flying Leads	725-1037-ND	41.47	39.48	37.50	36.50	DAT72415F
						10kV Relays						
1A	SPST-NC	5	10	50	7	PCB only	725-1038-ND	29.77	28.34	26.92	26.20	DBT70510
1B	SPST-NC	5	10	50	7	Flying Leads	725-1039-ND	35.38	33.69	31.99	31.14	DBT70510F
1A	SPST-NC	12	10	50	7	PCB only	725-1040-ND	29.77	28.34	26.92	26.20	DBT71210
1B	SPST-NC	12	10	50	7	Flying Leads	725-1041-ND	35.38	33.69	31.99	31.14	DBT71210F
1A	SPST-NC	24	10	50	7	PCB only	725-1042-ND	29.77	28.34	26.92	26.20	DBT72410
1B	SPST-NC	24	10	50	7	Flying Leads	725-1043-ND	35.38	33.69	31.99	31.14	DBT72410F
						3kV Miniature Relays						
2	SPST-NO	5	3	10	.02	Miniature Package	725-1044-ND	17.18	16.35	15.53	15.11	SAR90503
2	SPST-NO	12	3	10	.02	Miniature Package	725-1045-ND	17.18	16.35	15.53	15.11	SAR91203
2	SPST-NO	24	3	10	.02	Miniature Package	725-1046-ND	17.18	16.35	15.53	15.11	SAR92403

HAMLIN Reed Relays

RoHS COMPLIANT

Fig. 1 — HE700 Series

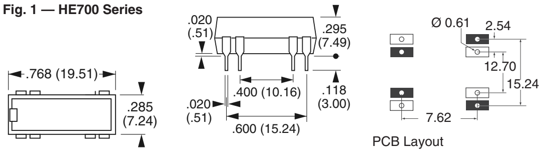

- Transfer Molded Body

PCB Layout
HE700 Series — Use all holes
HE751 Series — Doesn't include shaded pins

Fig. 2 — HE200 Series

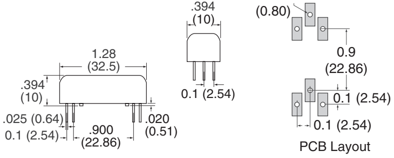

PCB Layout

Fig. 3 — HE400 Series

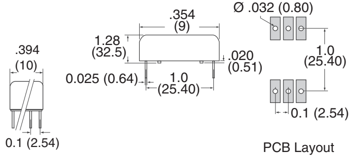

PCB Layout

Fig. 4 — HE3300 Series

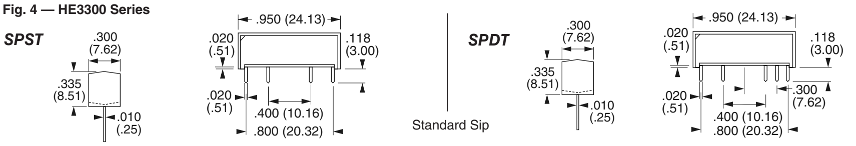

Standard Sip

Fig. 5 — HE3600 Series

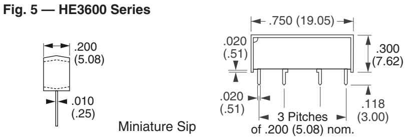

Miniature Sip

Top View	Coil Volt. (VDC)	Coil Res. (Ω)	Pickup/ Dropout (VDC@ 25°C)	Switch Volt. (VDC)	Switch Current (Amps)	Carry Current (Amps)	Cont. Res. (Ω)	Oper./ Rel. Time (msec)	Ins. Res. (Ω)	Features	Digi-Key Part No.	Price Each 1	10	50	100	Hamlin Part No.
Fig. 1 — 700 Series DIP Reed Relays																
1A SPST-NO 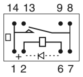	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE100-ND	1.50	1.27	1.06	.87	HE721A0500
	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE101-ND	1.63	1.38	1.15	.94	HE721A0510
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE102-ND	1.53	1.30	1.09	.89	HE721A1200
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE103-ND	1.69	1.43	1.20	.98	HE721A1210
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE104-ND	1.69	1.43	1.20	.98	HE721A2400
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE105-ND	1.82	1.54	1.29	1.05	HE721A2410
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	Low Profile	HE138-ND	2.54	2.15	1.80	1.47	HE721A1215
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	Low Profile	HE139-ND	2.54	2.15	1.80	1.47	HE721A2415
2A DPST-NO 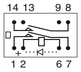	5	200	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE123-ND	3.06	2.59	2.17	1.77	HE722A0510
	5	150	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE106-ND	2.89	2.45	2.05	1.67	HE722A0600
	5	150	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE107-ND	3.06	2.59	2.17	1.77	HE722A0610
	12	500	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE108-ND	2.96	2.51	2.10	1.71	HE722A1200
	12	500	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE109-ND	3.09	2.62	2.19	1.79	HE722A1210
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE110-ND	3.09	2.62	2.19	1.79	HE722A2400
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE111-ND	3.25	2.75	2.30	1.88	HE722A2410
1C SPDT-CO 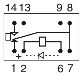	5	200	3.75/0.5	175	0.25	1.5	0.200	3.0/3.0	10^{9}	—	HE112-ND	3.67	3.11	2.60	2.12	HE721C0500
	5	200	3.75/0.5	175	0.25	1.5	0.200	3.0/3.0	10^{9}	w/Diode	HE113-ND	3.80	3.22	2.70	2.20	HE721C0510
	12	500	8.0/1.0	175	0.25	1.5	0.200	3.0/3.0	10^{9}	—	HE114-ND	3.74	3.17	2.65	2.16	HE721C1200
	12	500	8.0/1.0	175	0.25	1.5	0.200	3.0/3.0	10^{9}	w/Diode	HE115-ND	3.87	3.28	2.74	2.24	HE721C1210
	24	2000	16.0/2.0	175	0.25	1.5	0.200	3.0/3.0	10^{9}	—	HE116-ND	3.87	3.28	2.74	2.24	HE721C2400
	24	2000	16.0/2.0	175	0.25	1.5	0.200	3.0/3.0	10^{9}	w/Diode	HE117-ND	4.00	3.39	2.83	2.31	HE721C2410
1A SPST-NO 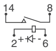	5	500	3.75/0.5	300	0.5	1.2	0.150	1.0/1.0	10^{10}	High Volt.	HE124-ND	2.15	1.82	1.52	1.24	HE751A0510
	12	1000	8.0/1.0	300	0.5	1.2	0.150	1.0/1.0	10^{10}	High Volt.	HE125-ND	2.21	1.87	1.57	1.28	HE751A1210
	24	2150	16.0/2.0	300	0.5	1.2	0.150	1.0/1.0	10^{10}	High Volt.	HE126-ND	2.34	1.98	1.66	1.35	HE751A2410
Fig. 2 — 200 Series DIP Reed Relays																
1A SPST-NO 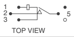	24	3285	16.8/1.4	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE120-ND	4.10	3.47	2.90	2.37	HE221A2450
Fig. 3 — 400 Series DIP Reed Relays																
1A SPST-NO 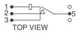	24	3840	18.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10_{10}	—	HE122-ND	4.10	3.47	2.90	2.37	HE421A2450
Fig. 4 — 3300 Series SIP Reed Relays																
1A SPST-NO 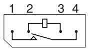	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE200-ND	1.69	1.43	1.20	.98	HE3321A0400
	12	500	9.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE201-ND	1.79	1.52	1.27	1.04	HE3321A1200
	24	2000	18.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE202-ND	2.05	1.74	1.45	1.19	HE3321A2400
	5	125	3.75/0.5	250	1.0	1.5	0.150	1.0/1.0	10^{10}	High Volt.	HE127-ND	2.37	2.01	1.68	1.37	HE3351A0500
	12	500	9.0/1.0	250	1.0	1.5	0.150	1.0/1.0	10^{10}	High Volt.	HE128-ND	2.50	2.12	1.78	1.45	HE3351A1200
	24	2000	18.0/2.0	250	1.0	1.5	0.150	1.0/1.0	10^{10}	High Volt.	HE129-ND	2.73	2.31	1.94	1.58	HE3351A2400
1C SPDT-CO 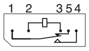	5	125	3.75/0.5	175	0.25	1.5	0.200	3.0/3.0	10^{9}	—	HE203-ND	3.87	3.28	2.74	2.24	HE3321C0500
	12	500	9.0/1.0	175	0.25	1.5	0.200	3.0/3.0	10^{9}	—	HE204-ND	4.00	3.39	2.83	2.31	HE3321C1200
	24	2000	18.0/2.0	175	0.25	1.5	0.200	3.0/3.0	10^{9}	—	HE205-ND	4.23	3.58	2.99	2.44	HE3321C2400
Fig. 5 — 3600 Series Ultra Miniature Reed Relays																
1A SPST-NO 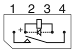	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE206-ND	1.50	1.27	1.06	.87	HE3621A0500
	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE207-ND	1.56	1.32	1.11	.90	HE3621A0510
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE208-ND	1.59	1.35	1.13	.92	HE3621A1200
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE209-ND	1.72	1.46	1.22	1.00	HE3621A1210
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE210-ND	1.59	1.35	1.13	.92	HE3621A2400
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE211-ND	1.76	1.49	1.25	1.02	HE3621A2410

COTO TECHNOLOGY

RoHS COMPLIANT

RF Relays

B10 Relays: Coto's Ball Grid Array (BGA) construction offers a breakthrough in reed relay performance. This patented technology allows for shorter RF paths in a controlled 50Ω environment to minimize signal attenuation. The designer is now able to switch or pass signals with wider bandwidth and faster rise time than alternative technologies.

B40 Relays: The B40 is four independent form A channels in one quad package. This 4-in-one BGA packaging allows relays to be integrated easily on boards designed for surface mount processing.

Applications: • IC Testers • In-Line Relay Testers • Memory Testers • Mixed Signal Testers • High Bandpass Applications

Fig. 1 — B10

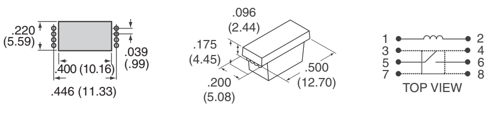

Fig. 2 — B40

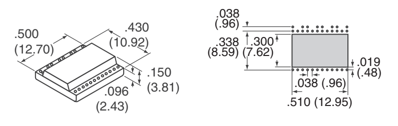

Fig.	Circuit	Coil Voltage (DC)	Coil Resistance (Ω)	Switching Current (Amps)	Carry Current (Amps)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	Coto Part No.
B10 Series, "In-Board Mount"											
1	SPST	3.3	55.0	0.25	0.5	50Ω BGA Surface Mount	306-1152-5-ND	19.34	17.04	14.97	B10-03B
	SPST	5.0	150.0	0.25	0.5	50Ω BGA Surface Mount	306-1153-5-ND	19.34	17.04	14.97	B10-05B
B40 Series, 4 Channel, "In-Board Mount"											
2	4PST	3.3	55.0	0.25	0.5	4 Channels-in-one BGA	306-1154-ND	163.80	155.61	147.42	B40-0002B
	4PST	5.0	166.0	0.25	0.5	4 Channels-in-one BGA	306-1155-ND	163.80	155.61	147.42	B40-0003B

US RELAYS & TECHNOLOGY

Reed Relays

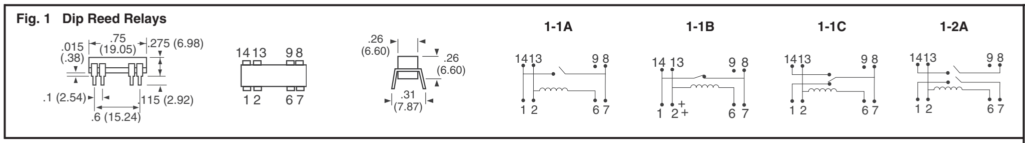
Fig. 1 Dip Reed Relays

Fig. Form	Coil Volt. (VDC)	Coil Res. (Ω)	Pickup/ Dropout (VDC)	Max. Volt. (VDC)	Cur. Rtg. (A)	Cont. Res. (Ω)	Oper./ Release /-Bounce Time (msec.)	Power Rtg. (W)	Ins. Res. (Ω)	Digi-Key Part No.	Price Each				US Relays Part No.
											1	10	50	100	
Dip Reed Relays															
1-1A	5	500	4.0/0.5	100	.50	.20	.5/.5/.5	10	10^{10}	Z660-ND	4.29	3.63	3.04	2.48	D1A05A
	12	1000	9.6/1.2	100	.50	.20	.5/.5/.5	10	10^{10}	Z661-ND	4.29	3.63	3.04	2.48	D1A12A
	24	2200	19.2/2.4	100	.50	.20	.5/.5/.5	10	10^{10}	Z612-ND	4.42	3.74	3.13	2.55	D1A24A
1-2A	5	150	4.0/0.5	100	.50	.20	.5/.5/.5	10	10^{10}	Z662-ND	6.34	5.37	4.49	3.66	D2A05A
	12	500	9.6/1.2	100	.50	.20	.5/.5/.5	10	10^{10}	Z614-ND	6.34	5.37	4.49	3.66	D2A12A
	24	1750	19.2/2.4	100	.50	.20	.5/.5/.5	10	10^{10}	Z615-ND	6.66	5.64	4.72	3.85	D2A24A
1-1B	5	450	4.0/0.5	100	.50	.20	.35/.5/.5	10	10^{10}	Z616-ND	6.34	5.37	4.49	3.66	D1B05A
	12	450	9.6/1.2	100	.50	.20	.35/.5/.5	10	10^{10}	Z617-ND	6.66	5.64	4.72	3.85	D1B12A
1-1C	5	200	4.0/0.5	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z663-ND	7.74	6.55	5.48	4.47	D1C05C
	12	500	4.0/0.5	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z664-ND	7.74	6.55	5.48	4.47	D1C12C
	24	1750	19.2/2.4	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z621-ND	7.87	6.66	5.57	4.54	D1C24C
Series 10 Reed Relays															
2-1A	3	250	2.25/0.3	200	.5	.10	.5/.25/—	5	10^{10}	Z622-ND	6.11	5.17	4.33	3.53	R1A3AHH
	5	700	3.75/0.5	200	.5	.10	.5/.25/—	5	10^{10}	Z623-ND	6.34	5.37	4.49	3.66	R1A5AHH
	12	2000	9.0/1.2	200	.5	.10	.5/.25/—	5	10^{10}	Z624-ND	7.31	6.19	5.18	4.22	R1A12AHH
	24	4000	18.0/2.4	200	.5	.10	.5/.25/—	5	10^{10}	Z625-ND	10.08	8.53	7.13	5.82	R1A24AHH
	3	30	2.25/0.3	300	2	.10	.5/.25/—	50	10^{10}	Z626-ND	5.20	4.40	3.68	3.00	P1A3A
	5	100	3.75/0.5	300	2	.10	.5/.25/—	50	10^{10}	Z627-ND	5.20	4.40	3.68	3.00	P1A5A
	12	500	9.0/1.2	300	2	.10	.5/.25/—	50	10^{10}	Z628-ND	5.46	4.62	3.87	3.15	P1A12A
Series 30 Sip Reed Relays															
3-1A	5	500	3.8/0.5	200	.5	.20	0.4/0.1/0.3	10	10^{9}	Z530-ND	4.29	3.63	3.04	2.48	SD1A05A
	24	2000	16.0/2.0	200	.5	.20	0.4/0.1/0.3	10	10^{9}	Z532-ND	4.42	3.74	3.13	2.55	SD1A24A
	5	500	3.8/0.5	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z533-ND	4.88	4.13	3.45	2.82	SD1A05D
	12	500	8.0/1.0	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z534-ND	4.88	4.13	3.45	2.82	SD1A12D
	24	2000	16.0/2.0	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z535-ND	5.04	4.27	3.57	2.91	SD1A24D
Open-Line Reed Relays															
4-1A	5	500	3.8/0.5	250	1	.10	0.4/0.2/0.25	20	10^{10}	Z638-ND	9.26	7.84	6.56	5.35	20-1051-10
4-2A	12	440	8.0/1.0	250	1	.10	0.5/0.2/0.25	20	10^{10}	Z642-ND	10.89	9.22	7.71	6.29	20-2121-10
4-1B	5	500	3.8/0.5	200	.5	.10	0.5/0.4/1.5	10	10^{10}	Z644-ND	10.01	8.67	7.44	6.36	20-1051-30
4-2B	5	200	3.8/0.5	200	.5	.10	0.6/0.4/1.5	10	10^{10}	Z647-ND	13.26	11.48	9.85	8.42	20-2051-30
	24	1250	16.0/2.0	200	.5	.10	0.6/0.4/1.5	10	10^{10}	Z649-ND	13.91	12.04	10.33	8.83	20-2241-30

Fig. 2 Series 10 Reed Relays

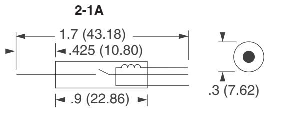

Fig. 3 Series 30 Sip Reed Relays

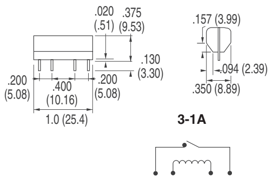

Fig. 4 Open-Line Reed Relays

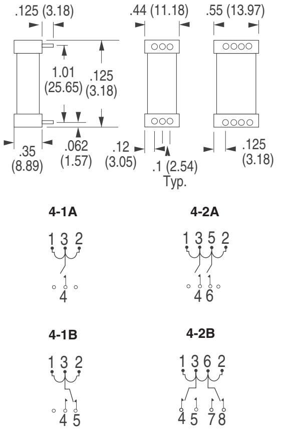

Surface Mount Reed Relays

Fig. 1

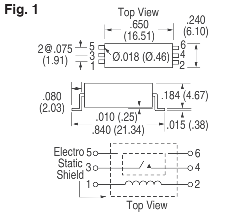

Fig. 2

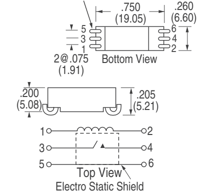

Fig. 3

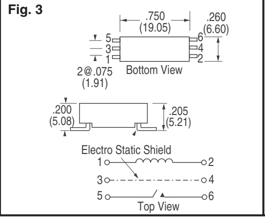

Fig. 4

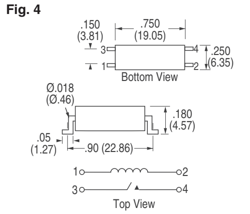

Fig. 5

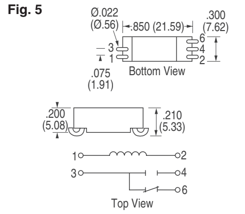

Fig.	Coil Voltage (VDC)	Coil Resistance (Ω)	Pickup/ Dropout (VDC)	Maximum Voltage (VDC)	Current Rating mA	Cont. Resistance (Ω)	Operate Time (msec.)	Ins. Resistance (Ω)	Digi-Key Part No.	Price Each			US Relays Part No.
										1	10	50	
1	4.5	150	3.5/0.5	250	500	.1	.35	$7x10^{12}$	Z650-ND	11.96	10.35	8.88	SMRR1-5-150C
2	5	150	3.75/0.4	200	500	.150	.35	$7x10^{12}$	Z651-ND	12.74	11.03	9.46	SMRR2-5-150C
3	5	150	3.8/0.5	250	500	.150	.35	$7x10^{12}$	Z653-ND	13.52	11.70	10.04	SMRR2-5-150F
4	5	250	3.75/0.4	200	500	.150	.35	$7x10^{12}$	Z654-ND	11.05	9.35	7.82	SMRR2-5-250
5	5	150	3.8/0.5	28	250	.2	.5	$7x10^{12}$	Z655-ND	12.43	10.76	9.23	SMRR3-5-150

C&K

Fig. 1

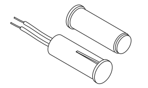

Fig. 2

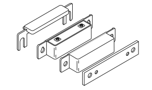

Fig. 3

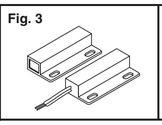

Fig. 4

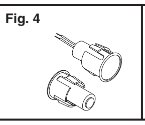

Fig. 5

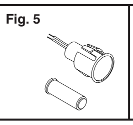

Fig. 6

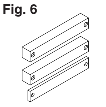

Fig. 7

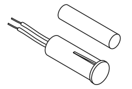

Magnetic Sensors

MPS Series Magnetic Proximity Sensors operate when a magnetic field approaches two magnetic reed blades. The magnetic field overcomes the spring tension of the blades and brings the contacts together. When the magnetic actuator is removed, the reeds separate by their own spring tension. Comes complete with reed switch and matching actuator. **FEATURES:** • Long Life Expectancy — 10 million operations • Housing made of rugged impact resistant ABS plastic that meets or exceeds UL requirements for fire retardation • Sealed Contacts allowing the reed to operate in damp and dusty environments • Wide gap performance makes magnet and switch alignment less critical. **SPECIFICATIONS: • Contact Ratings:** 30VDC or 30VAC maximum @ 0.3 Amp Maximum; 1.0 Amp Maximum Carry Current **• Operating Temperature:** -40°C ~ 100°C **• Mechanical & Electrical Life:** 10 Million Operations **MATERIALS: • Housing/Spacer/Cover:** ABS Plastic (UL94V-0), white **• Wire Leads:** UL1061, 22 AWG: stranded, made of copper or aluminum; Length: 12” (30.48cm) with ends stripped; Color: white **• Magnets:** Alnico V and Ceramic Ferrite 8 (MPS80WG model only)

NOTE: Wide gap contacts are polarity sensitive. Use alignment dots for proper installation of surface mount contacts.

Fig.	Make Gap (mm)	Release Gap (mm)	Digi-Key Part No.	Price Each				C&K Part No.
				1	10	100	250	
1	31.75	40.64	CKN6002-ND	5.84	5.05	4.25	3.85	MPS9WGW
2	31.75	31.75	CKN6003-ND	7.21	6.23	5.25	4.76	MPS20WGW
3	25.40	33.02	CKN6004-ND	6.18	5.34	4.50	4.08	MPS45WGW
4	31.75	40.64	CKN6005-ND	6.87	5.93	5.00	4.53	MPS70WGW
5	31.75	40.64	CKN6006-ND	6.87	5.93	5.00	4.53	MPS73WGW
6	50.80	50.80	CKN6007-ND	7.00	6.05	5.10	4.62	MPS80WGW
7	31.75	40.64	CKN6008-ND	5.84	5.05	4.25	3.85	MPS95WGW

HAMLIN

Magnetic Reed Switches

Reed Switches consists of two ferromagnetic reeds that when introduced to a magnetic field, attract toward each other to close. Once the magnetic field is removed, the contacts again spring open. Reed switches are ideal in auto, marine and moist environments including water, fuels, and dust-laden atmospheres. The smaller Ampere Turns number, the more sensitive the reed switch to magnetic fields.

Fig. 1

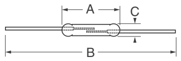

Fig. 2

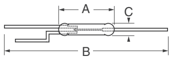

Fig. 3

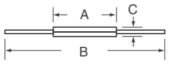

Fig. 4 (SMT)

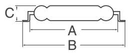

Fig. 5

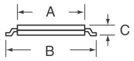

Fig.	Circuit	Ampere Turns	Maximum DC Contact Rating Watts	Maximum DC Contact Rating Volts	Switching Current (Amp)	Carry Current (Amp)	Operate/ Release (ms)	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Hamlin Part No.
Axial Lead Reed Switches															
1	SPST	6-12	10	170	0.5	0.5	.45/.2	7.00	46.00	1.80	HE516-ND	1.37	1.16	.97	MITI-3V1 6-12.5
		22-28	20	200	1.0	1.5	.8/.25	19.05	56.64	2.66	HE545-ND	1.37	1.16	.97	MLRR-2 22-28
		27-33	20	200	1.0	1.5	.8/.25	19.05	56.64	2.66	HE536-ND	1.37	1.16	.97	MLRR-2 27-33
		32-38	20	200	1.0	1.5	.8/.25	19.05	56.64	2.66	HE537-ND	1.37	1.16	.97	MLRR-2 32-38
		17-23	20	200	1.0	1.2	.7/.2	15.24	56.64	2.66	HE133-ND	.81	.69	.58	MLRR-3 17-23
		22-28	20	200	1.0	1.2	.7/.2	15.24	56.64	2.66	HE538-ND	.81	.69	.58	MLRR-3 22-28
		32-38	20	200	1.0	1.2	.7/.2	15.24	56.64	2.66	HE539-ND	.81	.69	.58	MLRR-3 32-38
		17-23	20	200	1.0	1.0	.6/.2	15.24	40.38	2.66	HE540-ND	.85	.72	.60	MLRR-4 17-23
		22-28	20	200	1.0	1.0	.6/.2	15.24	40.38	2.66	HE541-ND	.85	.72	.60	MLRR-4 22-28
		10-20	10	200	0.5	0.8	.6/.2	12.70	40.39	1.83	HE500-ND	.81	.69	.58	MDSR-7 10-20
		20-25	10	200	0.5	0.8	.6/.2	12.70	40.39	1.80	HE535-ND	.81	.69	.58	MDSR-7 20-25
		17-28	10	300	0.5	1.5	.6/.2	15.24	40.38	2.28	HE501-ND	1.04	.88	.74	MDRR-6 17-28
		27-33	10	200	0.5	1.5	.6/.2	15.24	40.38	2.28	HE530-ND	1.04	.88	.74	MDRR-6 27-33
		37-43	10	200	0.5	1.5	.6/.2	15.24	40.38	2.28	HE531-ND	1.04	.88	.74	MDRR-6 37-43
		12-23	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE502-ND	.62	.53	.44	MDSR-4 12-23
		27-33	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE533-ND	.62	.53	.44	MDSR-4 27-33
		32-38	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE534-ND	.62	.53	.44	MDSR-4 32-38
		12-33	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE503-ND	.72	.61	.51	MDCG-4 12-33
		17-23	10	200	0.75	1.5	.75/.3	19.687	56.77	2.66	HE135-ND	.98	.83	.69	MARR-2 17-23
		22-28	10	200	0.75	1.5	.75/.3	19.05	56.64	2.66	HE136-ND	.98	.83	.69	MARR-2 22-28
		27-33	10	200	0.75	1.5	.75/.3	19.05	56.64	2.66	HE527-ND	.98	.83	.69	MARR-2 27-33
		32-38	10	200	0.75	1.5	.75/.3	19.05	56.64	2.66	HE528-ND	.98	.83	.69	MARR-2 32-38
		17-23	10	1000	0.5	1.3	.75/.3	19.05	56.77	2.66	HE544-ND	2.34	1.98	1.66	MARR-5 17-23
		22-33	10	1000	0.5	1.3	.75/.3	19.69	56.77	2.66	HE504-ND	2.34	1.98	1.66	MARR-5 22-33
		32-38	10	1000	0.5	1.3	.75/.3	19.69	56.77	2.66	HE529-ND	2.34	1.98	1.66	MARR-5 32-38
		27-33	50	200	1.5	3.0	.75/.3	19.69	56.64	2.84	HE546-ND	1.04	.88	.74	MRPR-3 27-33
		32-38	50	200	1.5	3.0	.75/.3	19.69	56.64	2.84	HE547-ND	1.04	.88	.74	MRPR-3 32-38
		37-43	50	200	1.5	3.0	.75/.3	19.69	56.64	2.84	HE542-ND	1.04	.88	.74	MRPR-3 37-43
		17-23	50	250	1.0	2.5	.75/.3	20.32	56.64	2.84	HE543-ND	1.30	1.10	.92	MRPR-8 17-23
		22-38	50	250	1.0	2.5	.75/.3	20.32	56.64	2.84	HE505-ND	1.30	1.10	.92	MRPR-8 22-38
2	SPDT	15-25	5	175	0.25	1.5	.7/1	14.73	51.66	2.54	HE506-ND	2.96	2.51	2.10	MDRR-DT 15-25 F
		30-35	5	175	0.25	1.5	.7/1	14.73	51.66	2.54	HE532-ND	2.93	2.48	2.07	MDRR-DT 30-35 U
		50-65	50	500	1.5	2.0	5.5/8	39.37	85.73	5.33	HE508-ND	15.63	13.23	11.07	DRT-DTH 50-65
		70-75	50	500	1.5	2.0	5.5/8	38.10	85.73	5.33	HE525-ND	15.63	13.23	11.07	DRT-DTH 70-75
		80-85	50	500	1.5	2.0	5.5/8	38.10	85.73	5.33	HE526-ND	15.63	13.23	11.07	DRT-DTH 80-85
		75-80	30	500	0.5	3.0	4.5/7.0	38.10	85.73	5.33	HE134-ND	11.41	9.66	8.08	DRR-DTH 75-80
		40-45	30	500	0.5	3.0	4.5/7	38.10	85.73	5.33	HE521-ND	11.41	9.66	8.08	DRR-DTH 40-45
		45-50	30	500	0.5	3.0	4.5/7	38.10	85.73	5.33	HE522-ND	11.41	9.66	8.08	DRR-DTH 45-50
		65-70	30	500	0.5	3.0	4.5/7	38.10	85.73	5.33	HE523-ND	11.41	9.66	8.08	DRR-DTH 65-70
		85-90	30	500	0.5	3.0	4.5/7	38.10	85.73	5.33	HE524-ND	11.41	9.66	8.08	DRR-DTH 85-90
1	SPST	42-48	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE517-ND	3.38	2.86	2.40	DRR-129 42-48
		47-68	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE509-ND	3.38	2.86	2.40	DRR-129 47-68
		67-73	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE518-ND	3.38	2.86	2.40	DRR-129 67-73
		77-83	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE519-ND	3.38	2.86	2.40	DRR-129 77-83
		87-93	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE520-ND	3.38	2.86	2.40	DRR-129 87-93
3	SPST	10-15	10	200	0.5	0.8	1.0/0.5	11.43	40.39	0.43	HE548-ND	1.11	.94	.79	59170-1-S-00-A
		15-20	10	200	0.5	0.8	1.0/0.5	11.43	40.39	0.43	HE550-ND	1.11	.94	.79	59170-1-T-00-A
		20-25	10	200	0.5	0.8	1.0/0.5	11.43	40.39	0.43	HE552-ND	1.11	.94	.79	59170-1-U-00-A

Fig.	Circuit	Operate Time (ms)	Release Time (ms)	Switching Volt. (max.)	Switching Current	Carry Current	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 50	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Hamlin Part No.
SMT Reed Switches																	
4	SPST	0.6	0.2	200VDC	0.5	1.2	17.52	19.30	2.84	HE151CT-ND	.84	.72	.60	HE151TR-ND	3,000	300.00/M	MDSM-4R 12-18
					0.5	0.8	16.64	21.03	1.27	HE152CT-ND	1.26	1.08	.90	—	—	—	MDSM-7R 10-15
5	SPST	1.0	0.5	200VDC	0.5	0.8	11.43	16.25	1.52	HE549CT-ND	1.44	1.23	1.03	HE549TR-ND	2,000	554.00/M	59170-1-S-00-D
					0.5	0.8	11.43	16.25	1.52	HE551CT-ND	1.44	1.23	1.03	HE551TR-ND	2,000	554.00/M	59170-1-T-00-D
					0.5	0.8	11.43	16.25	1.52	HE553CT-ND	1.44	1.23	1.03	HE553TR-ND	2,000	554.00/M	59710-1-U-00-D

Magnets

A permanent magnet is the most common source for operating the magnetic reed switch. The method used to position the magnet depends upon the switching requirement but can be used in one of four basic techniques; perpendicular or parallel motion (up and down, side to side) rotation (revolving magnet or switch), shielding (passing a ferromagnetic material between the switch and magnet) or biasing which is using one magnet of opposite polarity to cancel another magnet's lines of force.

Fig. 1

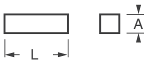

Fig. 2

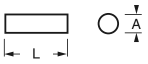

Fig. 3

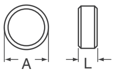

Fig.	Dim. (mm) A x L	Use with A.T.Range	Gauss Strength	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Hamlin Part No.
1	1.57 Sq. x 12.70	10-38	45	HE510-ND	1.20	1.02	.86	H-31
	4.83 Sq. x 25.40	10-38	200	HE511-ND	2.99	2.53	2.12	H-32
	3.2 Sq. x 19.1	10-38	135	HE512-ND	1.63	1.38	1.15	H-33
	6.35 Sq. x 25.4	10-68	260	HE513-ND	3.41	2.89	2.42	H-34
2	3.05 Dia. x 14.99	10-38	120	HE155-ND	1.85	1.57	1.32	315
	4.62 Dia x 25.40	10-68	155	HE154-ND	1.98	1.68	1.41	H-36
	3.81 Dia. x 19.81	10-38	175	HE514-ND	1.59	1.35	1.13	420
	6.00 Dia. x 25.00	10-68	235	HE515-ND	4.52	3.83	3.20	625
3	12.70 Dia. x 5.08	10-38	800	HE153-ND	1.17	.99	.83	CM-1

CHERRY®

Magnetic Reed Position Sensors

Features:
- **Operating Temperature:** -40°C ~ 105°C
- **Leads:** 24 AWG PVC, Pre-tinned, 12” long

Fig. 1

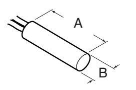

Fig. 2

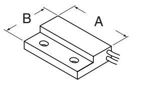

Fig. 3

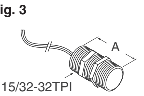

Fig. 4

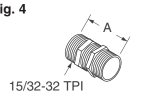

Fig.	Description	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Cherry Part No.
1	Magnetic Position Sensor, 10W, SPST-NO, .5A	1.00	ø.243	CH402-ND◆	3.16	2.81	2.34	MP201701
	Magnetic Position Sensor, 3W, SPST-NC, .2A	1.00	ø.243	CH403-ND◆	4.75	4.23	3.52	MP201702
	Smooth Barrel Actuator	1.00	ø.243	CH411-ND	2.97	2.64	2.20	AS201701
2	Mini Flange Mount Proximity Sensors,10W, SPST-NO, .5A	.906	.550	CH405-ND◆	3.46	3.08	2.56	MP201801
	Mini Flange Mount Proximity Sensors, 3W, SPST-NC, .2A	.906	.550	CH406-ND◆	5.32	4.73	3.94	MP201802
	Mini Flange Mount Actuator	.906	.550	CH412-ND◆	3.11	2.76	2.30	AS201801
	Flange Mount Proximity Sensors, 10W, SPST-NO, .5A	1.125	.750	CH407-ND†◆	3.59	3.20	2.66	MP201901
	Flange Mount Proximity Sensors, 3W, SPDT-CO, .2A	1.125	.750	CH409-ND†◆	5.94	5.28	4.40	MP201903
	Flange Mount Actuator	1.125	.750	CH413-ND◆	3.38	3.00	2.50	AS201901
3	Magnetic Position Sensor Aluminum 10W, SPST-NO, .5A	1.00	—	CH410-ND	10.13	9.00	7.50	MP200701
	Magnetic Position Sensor Aluminum 3W, SPST-NC, .2A	1.00	—	CH709-ND◆	12.56	11.16	9.30	MP200702
	Magnetic Position Sensor Aluminum 3W, SPDT-CO, .2A	1.00	—	CH710-ND◆	13.10	11.64	9.70	MP200703
4	Threaded Actuator, South pole magnet	1.00	—	CH397-ND◆	14.01	12.46	10.38	HE610400

† Wire leads extend from opposite side of switch ◆ ***RoHS Compliant***

HAMLIN

Magnetic Position Sensors

Specifications:

• **Switching Voltage:** SPST - N/O - 200VDC, SPST - HV - 300VDC, SPDT - 175VDC, SPST - N/C - 175VDC • **Initial Contact Resistance:** 0.200Ω • **Typical Operate Time:** 1.00ms • **Shock without False Operation:** 100G's, 11ms, 1/2 sine wave • **Operate and Storage Temperature:** -40°C ~ 105°C

Fig. 1

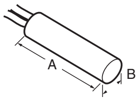

59021 - Aluminum Body

Fig. 2

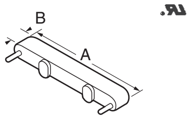

Fig. 3

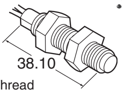

3A = 5/16 - 24 Thread
3B = M8 x 1.25 Thread

Fig. 4

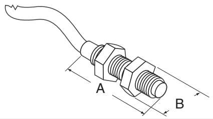

Fig. 5

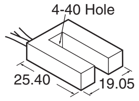

Fig. 6

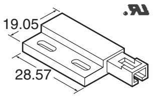

Mates with WM2900 (connector), WM2510 (contact)

Fig. 7

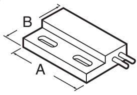

Fig. 8

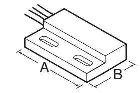

Fig. 9 (SMT)

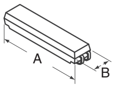

J-Lead

Fig. 10 (SMT)

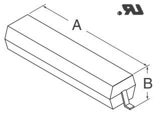

Gull-Lead

Fig.	Dimension (mm) A	B	Must Operate/Release Distance (mm)	Termination or Wiring	Digi-Key Sensor Part No.	Price Each 1	10	50	Matching Magnet Part No.	Price Each 1	10	50
					SPST-N/O							
1	9.00	3.00	6.0/—	12" PVC Leads	59010-1-S-02-F-ND	9.36	7.92	6.63	57020-000-ND	3.54	3.00	2.51
1	9.00	3.00	4.5/—	12" PVC Leads	59010-1-T-02-F-ND	9.36	7.92	6.63	57020-000-ND	3.54	3.00	2.51
1	16.4	5.10	2.54/7.62	12" PVC Leads	59020-010-ND	5.62	4.76	3.98	57020-000-ND	3.54	3.00	2.51
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-010-ND•	2.83	2.40	2.01	57025-000-ND•	2.57	2.18	1.82
1	5.10	15.24	6.0/—	12" PVC Leads	59021-1-S-02-A-ND	16.61	14.06	11.76	57020-000-ND	3.54	3.00	2.51
1	5.10	15.24	6.0/—	12" PVC Leads	59021-1-S-02-F-ND	16.61	14.06	11.76	57020-000-ND	3.54	3.00	2.51
1	5.10	15.24	4.5/—	12" PVC Leads	59021-1-T-02-A-ND	16.61	14.06	11.76	57020-000-ND	3.54	3.00	2.51
1	5.10	15.24	4.5/—	12" PVC Leads	59021-1-T-02-F-ND	16.61	14.06	11.76	57020-000-ND	3.54	3.00	2.51
1	5.10	15.24	4.0/—	12" PVC Leads	59021-1-U-02-A-ND	16.61	14.06	11.76	57020-000-ND	3.54	3.00	2.51
1	5.10	15.24	4.0/—	12" PVC Leads	59021-1-U-02-F-ND	16.61	14.06	11.76	57020-000-ND	3.54	3.00	2.51
2	17.78	4.32	1.90/13.97	PCB Pins	59045-010-ND	1.72	1.46	1.22	57045-000-ND	2.99	2.53	2.12
2	22.86	4.57	3.81/19.05	PCB pins	59050-010-ND•	1.24	1.05	.88	57050-000-ND•	3.09	2.62	2.19
3A	—	—	3.81/20.32	12" PVC Leads	59065-010-ND•	3.67	3.11	2.60	57065-000-ND•	3.19	2.70	2.26
3B	—	—	3.81/20.32	12" PVC Leads	59070-010-ND	3.67	3.11	2.60	57070-000-ND	2.99	2.53	2.12
4	46.0	M12	10.0/30.0	16' 4" HD Cable	59075-1-T-50-F-ND	16.20	13.55	11.05	57075-000-ND	29.65	24.80	20.22
4	46.0	M12	10.0/30.0	20" HD Cable	59075-1-U-03-A-ND	18.69	15.82	13.23	57075-000-ND	29.65	24.80	20.22
5	—	—	2.54/6.35	12" PVC Leads	59085-010-ND	8.94	7.57	6.33	—	—	—	—
6	—	—	3.81/20.32	Connector	59105-010-ND	4.29	3.63	3.04	57105-000-ND	2.67	2.26	1.89
7	28.57	19.05	3.81/20.32	Pins	59125-010-ND•	3.74	3.17	2.65	57125-000-ND•	2.67	2.26	1.89
8	28.57	19.05	8.89/29.21	12" Teflon Leads	59135-010-ND	6.08	5.15	4.31	57135-000-ND	3.54	3.00	2.51
7	23.01	14.00	4.44/20.32	12" PVC Leads	59140-010-ND	2.86	2.42	2.03	57140-000-ND	2.86	2.42	2.03
7	28.57	19.05	5.71/20.32	12" PVC Leads	59145-010-ND•	3.06	2.59	2.17	57145-000-ND•	2.67	2.26	1.89
8	28.57	19.05	5.71/20.32	12" PVC Leads	59150-010-ND•	3.06	2.59	2.17	57150-000-ND•	2.67	2.26	1.89
9	20.32	3.75	3.93/11.17	J-Lead SMT	59160-010-ND	2.02	1.71	1.43	57050-000-ND	3.09	2.62	2.19
10	16	2.51	7.5/ —	Gull Lead SMT	59165-1-S-00-C-ND	1.07	.91	.76	—	—	—	—
10	16	2.51	6.5/ —	Gull Lead SMT	59165-1-T-00-C-ND	1.07	.91	.76	—	—	—	—
10	16	2.51	5.0/ —	Gull Lead SMT	59165-1-U-00-C-ND	1.07	.91	.76	—	—	—	—
					SPST-HV-N/O							
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-020-ND†	3.28	2.78	2.33	57025-000-ND†	2.57	2.18	1.82
2	22.86	4.57	3.81/19.05	PCB Pins	59050-020-ND†	1.72	1.46	1.22	57050-000-ND†	3.09	2.62	2.19
3A	—	—	3.81/20.32	12" PVC Leads	59065-020-ND†	3.97	3.36	2.81	57065-000-ND†	3.19	2.70	2.26
3B	—	—	3.81/20.32	12" PVC Leads	59070-020-ND†	3.97	3.36	2.81	57070-000-ND†	2.99	2.53	2.12
6	—	—	3.81/20.32	Connector	59105-020-ND†	4.91	4.16	3.48	57105-000-ND†	2.67	2.26	1.89
7	28.57	19.05	3.81/20.32	Pins	59125-020-ND†	4.32	3.66	3.06	57125-000-ND†	2.67	2.26	1.89
8	28.57	19.05	8.89/29.21	12" Teflon Leads	59135-020-ND	6.44	5.45	4.56	57135-000-ND	3.54	3.00	2.51
7	23.01	14.00	4.44/20.32	12" PVC Leads	59140-020-ND†	3.48	2.95	2.47	57140-000-ND†	2.86	2.42	2.03
7	28.57	19.05	5.71/20.32	12" PVC Leads	59145-020-ND†	3.61	3.06	2.56	57145-000-ND†	2.67	2.26	1.89
8	28.57	19.05	5.71/20.32	12" PVC Leads	59150-020-ND†	3.61	3.06	2.56	57150-000-ND†	2.67	2.26	1.89
					SPDT-O/C							
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-030-ND•	4.78	4.05	3.39	57025-000-ND•	2.57	2.18	1.82
3A	—	—	3.81/20.32	12" PVC Leads	59065-030-ND•	5.30	4.49	3.75	57065-000-ND•	3.19	2.70	2.26
3B	—	—	3.81/20.32	12" PVC Leads	59070-030-ND	5.30	4.49	3.75	57070-000-ND	2.99	2.53	2.12
5	—	—	2.54/6.35	12" PVC Leads	59085-030-ND	9.39	7.95	6.65	—	—	—	—
8	28.57	19.05	8.89/29.21	12" Teflon Leads	59135-030-ND	7.70	6.52	5.46	57135-000-ND	3.54	3.00	2.51
7	23.01	14.00	4.44/20.32	12" PVC Leads	59140-030-ND•	5.10	4.32	3.62	57140-000-ND•	2.86	2.42	2.03
7	28.57	19.05	5.71/20.32	12" PVC Leads	59145-030-ND•	5.07	4.29	3.59	57145-000-ND•	2.67	2.26	1.89
8	28.57	19.05	5.71/20.32	12" PVC Leads	59150-030-ND•	4.94	4.18	3.50	57150-000-ND•	2.67	2.26	1.89
9	20.32	3.75	3.93/11.17	J-Lead SMT	59160-030-ND	4.03	3.41	2.86	57050-000-ND	3.09	2.62	2.19
					SPST-N/C							
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-040-ND	4.52	3.83	3.20	57025-000-ND	2.57	2.18	1.82
3A	—	—	3.81/20.32	12" PVC Leads	59065-040-ND	4.97	4.21	3.52	57065-000-ND	3.19	2.70	2.26
3B	—	—	3.81/20.32	12" PVC Leads	59070-040-ND	4.97	4.21	3.52	57070-000-ND	2.99	2.53	2.12
8	23.01	19.05	4.44/20.32	12" PVC Leads	59140-040-ND	4.81	4.07	3.41	57140-000-ND	2.86	2.42	2.03

• **HE1-KIT-ND** ***Digi-Key® Magnetic Switches Kit*** Assortment of switches denoted. (22 total pieces) Includes notebook style standard case **$69.95**

† **HE2-KIT-ND** ***Digi-Key® Magnetic Switches Kit*** One each of switches denoted. (18 total pieces) Includes notebook style standard case **$49.95**

MEDER electronic

Level Sensors with Magnetic Float

Compact sensors for detection of liquid levels such as oils, petroleum and fluids. LS01/02 series are for vertical tank mounting and LS03 is for horizontal mounting. Perfect for tank monitoring in household, automotive, control-test and measurement industries. Sensors are made of strong Polyimide material and include seals and mounting nut.

Specifications: • Switching Current: 0.5A • Switching Voltage: 200V, stripped and tinned leads.

Fig. 1

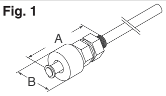

Fig. 2

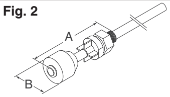

Fig. 3

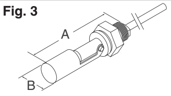

Fig.	Dimensions (mm) A	B	Bushing	Operating Temperature	Termination or Wiring	Digi-Key Part No.	Price Each 1	10	50	Meder Part No.
1	42.5	24	M8x1.25	0°C ~ 70°C	500mm PVC Leads	374-1000-ND	14.89	13.29	10.77	LS01-1A71-PA-500W
2	72.5	23.5	M10x1.0	-20°C ~ 100°C	500mm PVC Leads	374-1001-ND	15.93	14.21	11.52	LS02-1A71-PA-500W
3	80	17.2	M16x1.5	-20°C ~ 100°C	500mm PVC Leads	374-1002-ND	17.71	15.81	12.81	LS03-1A66-PA-500W

RADIAL MAGNET INC

Magnets

Made from Neodymium Iron Boron (NdFeB), rare earth magnets. These magnets are nickel plated. Neodymium Magnets are the most powerful permanent magnetic materials commercially available. Increasing the size of a magnet also increases magnetic strength.

Description	Gauss Strength	Digi-Key Part No.	Price Each 1	10	50	100
1" Dia. x 1/8" Thick	10,800	469-1000-ND	2.05	1.80	1.60	1.42
3/4" Dia. x 1/8" Thick	10,800	469-1001-ND	1.20	1.16	1.05	.96
1/2" Dia. x 1/8" Thick	10,800	469-1002-ND	.60	.54	.48	.46
1/4" Dia. x 1/4" Thick	10,800	469-1003-ND	.36	.34	.32	.30
1/4" Dia. x 1/8" Thick	10,800	469-1004-ND	.20	.19	.18	.16
1/4" Dia. x 1/16" Thick	10,800	469-1005-ND	.13	.12	.11	.10
1" x 2" x 1/8" Thick	10,800	469-1006-ND	4.80	4.50	4.14	3.84
1" x 2" x 1/4" Thick	10,800	469-1007-ND	7.95	7.20	6.75	5.56

SRC DEVICES

Reed Relays

SRC Devices offers a selection of molded SIP and DIP 14 Reed Relays to meet customer applications. The DSS4 was developed several years ago and continues to be the relay of choice for hook switch in modems and general purpose applications. Features: • High reliability switching • Long operating life (>1 billion operations) • Capable of switching up to 1000V • Automatic insertion design. The PRMA offers a variety of contacts and schematics to meet the needs of a wide range of applications. Some applications include: • Automatic test equipment • Process control • High-end security systems • Metering

Fig. 1

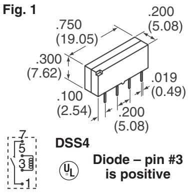

Fig. 2

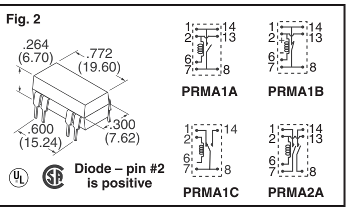

Fig.	Circuit	Coil Voltage (DC)	Coil Resistance	Switching Current (A)	Carry Current (A)	Digi-Key Part No.	Price Each 1	10	50	SRC Devices Part No.
1	SPST	5	500	0.5	2	420-1021-ND	3.28	2.78	2.33	DSS41A05
	SPST	12	1000	0.5	2	420-1024-ND*	3.80	3.22	2.70	DSS41A12B
	SPST	24	2000	0.5	2	420-1025-ND	3.61	3.06	2.56	DSS41A24
	SPST	24	2000	0.5	2	420-1026-ND*	4.13	3.50	2.54	DSS41A24B
2	SPST	5	500	0.5	2	420-1008-ND	4.06	3.44	2.88	PRMA1A05
	SPST	5	500	0.5	2	420-1009-ND*	4.29	3.63	3.04	PRMA1A05B
	SPST	12	1000	0.5	2	420-1010-ND	4.06	3.44	2.88	PRMA1A12
	SPST	24	2150	0.5	2	420-1011-ND	4.39	3.72	3.11	PRMA1A24
	SPST N/C	5	500	0.5	2	420-1016-ND	5.72	4.84	4.05	PRMA1B05
	SPST N/C	12	1000	0.5	2	420-1017-ND	5.72	4.84	4.05	PRMA1B12
	SPST N/C	24	2150	0.5	2	420-1101-ND	6.05	5.12	4.28	PRMA1B24
	SPDT O/C	5	200	0.25	0.4	420-1018-ND	8.01	6.93	5.93	PRMA1C05
	SPDT O/C	5	200	0.25	0.4	420-1019-ND*	8.63	7.47	6.40	PRMA1C05B
	SPDT O/C	12	500	0.25	0.4	420-1020-ND	8.01	6.93	5.93	PRMA1C12
	DPST	5	140	0.5	2	420-1012-ND	6.50	5.50	4.60	PRMA2A05
	DPST	5	140	0.5	2	420-1013-ND*	7.31	6.19	5.18	PRMA2A05B
	DPST	12	500	0.5	2	420-1014-ND	6.50	5.50	4.60	PRMA2A12
	DPST	24	2150	0.5	2	420-1015-ND	6.83	5.78	4.83	PRMA2A24
	SPDT	24	2150	0.25	0.4	420-1102-ND	10.34	8.75	7.32	PRMA1C24

* With Diode

Ultra-Mini Reed Switches

SRC Devices Industry unique flat bladed, square reed switches. Ideally suited for small signal to moderate load switching tasks. With sputtered ruthenium contacts and laser-sealed glass, the FR series reed switch from SRC Devices is one of the most reliable reed switches available today. In addition, our square glass and flat leads allow for seamless integration into a high speed, automated assembly process via our standard SMT configuration. SRC Devices reed switches are the only reed switches fully SMT compatible by design, with or without overmolding. The magnetic force (expressed in NI, AT or Ampere Turns) required to cause the reed switch contacts to close is called the pull-in or operate AT.

Fig. 1

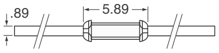

Fig. 2 — SMT

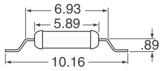

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Pricing 1	10	50	100	SRC Devices Part No.
Fig. 1 — Axial Lead OverMolded Switches											
SPST	10-15	5-30	175VDC/VAC	0.25A	0.5A	420-1035-ND	3.15	26.68	111.55	181.88	UM2S1015
SPST	10-20	5-30	175VDC/VAC	0.25A	0.5A	420-1036-ND	2.89	24.48	102.35	166.88	UM2S1020
SPST	10-30	5-30	175VDC/VAC	0.25A	0.5A	420-1037-ND	2.89	24.48	102.35	166.88	UM2S1030
SPST	15-20	5-30	175VDC/VAC	0.25A	0.5A	420-1038-ND	3.15	26.68	111.55	181.88	UM2S1520
SPST	20-25	5-30	175VDC/VAC	0.25A	0.5A	420-1040-ND	1.82	15.40	64.40	105.00	UM2S2025

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape & Reel Pricing* 3,000	SRC Devices Part No.
Fig. 2 — SMT OverMolded Reed Switches											
SPST	10-20	5-30	175VDC/VAC	0.25A	0.5A	420-1030-1-ND	3.06	27.26	110.45	1222.00/M	UM2315
SPST	10-15	5-30	175VDC/VAC	0.25A	0.5A	420-1031-1-ND	3.32	29.58	119.85	1326.00/M	UM2319
SPST	10-30	5-30	175VDC/VAC	0.25A	0.5A	420-1033-1-ND	2.93	26.10	105.75	—	UM2376
SPST	20-25	5-30	175VDC/VAC	0.25A	0.5A	420-1034-1-ND	1.98	17.69	71.68	793.00/M	UM2378

• Operate and Release values are given in Ampere-Turns. * For Tape and Reel part number, change 1-ND to 2-ND.

Magnetic Reed Switches

Reed switches have been used in thousands of applications from non-contact switches to sensing direction, speed and position. Reed switches are a reliable, low cost, low current switch that are hermitically sealed for operation in the most demanding environments. The magnetic force (expressed in NI, AT or Ampere Turns) required to cause the reed switch contacts to close is called the pull-in or operate AT.

Fig. 1

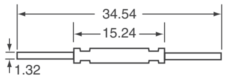

Fig. 2 — SMT

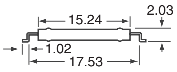

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Pricing 1	10	50	100	SRC Devices Part No.
Fig. 1 — Magnetic Reed Switches											
SPST	10-15	5-15	200VDC/VAC	0.5A	1.5A	420-1000-ND	1.66	14.03	58.65	95.63	FR2S1015-051500
SPST	10-20	5-20	200VDC/VAC	0.5A	1.5A	420-1001-ND	1.53	12.93	54.05	88.13	FR2S1020-052000
SPST	15-20	5-20	200VDC/VAC	0.5A	1.5A	420-1002-ND	1.66	14.03	58.65	95.63	FR2S1520-052000
SPST	15-25	5-20	200VDC/VAC	0.5A	1.5A	420-1003-ND	1.53	12.93	54.05	88.13	FR2S1525-0525
SPST	20-25	5-25	200VDC/VAC	0.5A	1.5A	420-1004-ND	1.66	14.03	58.65	95.63	FR2S2025-052500
SPST	20-30	5-30	200VDC/VAC	0.5A	1.5A	420-1005-ND	1.53	12.93	54.05	88.13	FR2S2030-053000

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape & Reel Pricing* 3,000	SRC Devices Part No.
Fig. 2 — SMT Reed Switches on Tape											
SPST	15-25	5-22	200VDC/VAC	0.5A	1.5A	420-1006-1-ND	1.85	16.53	66.98	741.00/M	FR2249
SPST	10-20	5-18	200VDC/VAC	0.5A	1.5A	420-1007-1-ND	1.85	16.53	66.98	741.00/M	FR2259
SPST	10-30	5-30	200VDC/VAC	0.5A	1.5A	420-1027-1-ND	1.79	15.95	64.63	715.00/M	FR2282
SPST	10-15	5-30	200VDC/VAC	0.5A	1.5A	420-1104-1-ND	1.98	17.69	71.68	793.00/M	FR2024
SPST	15-20	5-30	200VDC/VAC	0.5A	1.5A	420-1028-1-ND	1.98	17.69	71.68	793.00/M	FR2025
SPST	20-25	5-30	200VDC/VAC	0.5A	1.5A	420-1029-1-ND	1.98	17.69	71.68	793.00/M	FR2026

• Operate and Release values are given in Ampere-Turns. * For Tape and Reel part number, change 1-ND to 2-ND.

Over Molded Reed Switches

All the advantages of the non-molded DYAD®, plus the added strength of a low-stress plastic encapsulation. The SRC Devices Molded DYAD is designed for the harshest, most demanding applications. This plastic shell provides superior mechanical strength, eliminates concerns over handling glass switches, and provides an ideal solution for high speed, automated assembly environments. The magnetic force (expressed in NI, AT or Ampere Turns) required to cause the reed switch contacts to close is called the pull-in or operate AT.

Applications:

- **Security**
  - Proximity Sensing
  - Smoke Alarms
- **Automotive**
  - Level Sensor
  - Lamp Current Sensor

CM15

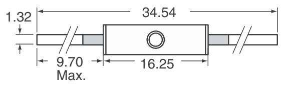

CM5

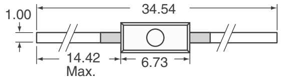

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Pricing 1	10	50	100	SRC Devices Part No.
Axial Lead OverMolded Switches											
SPST	10-15	5-30	200VDC/VAC	0.5A	1.5A	420-1047-ND	1.98	16.78	70.15	114.38	CM15S1015
SPST	10-20	5-30	200VDC/VAC	0.5A	1.5A	420-1048-ND	1.85	15.68	65.55	106.88	CM15S1020
SPST	10-30	5-30	200VDC/VAC	0.5A	1.5A	420-1049-ND	1.85	15.68	65.55	106.88	CM15S1030
SPST	15-20	5-30	200VDC/VAC	0.5A	1.5A	420-1050-ND	1.98	16.78	70.15	114.38	CM15S1520
SPST	15-25	5-30	200VDC/VAC	0.5A	1.5A	420-1051-ND	1.85	15.68	65.55	106.88	CM15S1525
SPST	20-25	5-30	200VDC/VAC	0.5A	1.5A	420-1052-ND	1.98	16.78	70.15	114.38	CM15S2025
SPST	10-15	5-30	175VDC/VAC	0.25A	0.5A	420-1059-ND	3.48	29.43	123.05	200.63	CM5S1015
SPST	10-20	5-30	175VDC/VAC	0.25A	0.5A	420-1060-ND	3.22	27.23	113.85	185.63	CM5S1020
SPST	10-30	5-30	175VDC/VAC	0.25A	0.5A	420-1061-ND	3.09	26.13	109.25	178.13	CM5S1030
SPST	15-20	5-30	175VDC/VAC	0.25A	0.5A	420-1062-ND	3.48	29.43	123.05	200.63	CM5S1520
SPST	15-25	5-30	175VDC/VAC	0.25A	0.5A	420-1063-ND	3.22	27.23	113.85	185.63	CM5S1525
SPST	20-25	5-30	175VDC/VAC	0.25A	0.5A	420-1064-ND	3.48	29.43	123.05	200.63	CM5S2025

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape & Reel* Qty.	Pricing	SRC Devices Part No.
SMT OverMolded Reed Switches												
SPST	10-15	5-30	200VDC/VAC	0.5A	1.5A	420-1041-1-ND	2.31	20.59	83.43	2,000	1030.00/M	CM15-2024
SPST	10-20	5-30	200VDC/VAC	0.5A	1.5A	420-1042-1-ND	2.18	19.43	78.73	1,000	972.00	CM15-2259
SPST	10-30	5-30	200VDC/VAC	0.5A	1.5A	420-1043-1-ND	2.11	18.85	76.38	2,000	943.00/M	CM15-2282
SPST	15-20	5-30	200VDC/VAC	0.5A	1.5A	420-1044-1-ND	2.31	20.59	83.43	2,000	1030.00/M	CM15-2025
SPST	15-25	5-30	200VDC/VAC	0.5A	1.5A	420-1045-1-ND	2.18	19.43	78.73	2,000	972.00/M	CM15-2249
SPST	20-25	5-30	200VDC/VAC	0.5A	1.5A	420-1046-1-ND	2.31	20.59	83.43	2,000	1030.00/M	CM15-2026
SPST	10-15	5-30	175VDC/VAC	0.25A	0.5A	420-1053-1-ND	3.54	31.61	128.08	2,000	1553.00/M	CM5-2319
SPST	10-20	5-30	175VDC/VAC	0.25A	0.5A	420-1054-1-ND	3.54	31.61	128.08	2,000	1553.00/M	CM5-2315
SPST	10-30	5-30	175VDC/VAC	0.25A	0.5A	420-1055-1-ND	4.16	37.12	150.40	2,000	1824.00/M	CM5-2376
SPST	15-20	5-30	175VDC/VAC	0.25A	0.5A	420-1056-1-ND	3.54	31.61	128.08	2,000	1553.00/M	CM5-2325
SPST	15-25	5-30	175VDC/VAC	0.25A	0.5A	420-1057-1-ND	4.16	37.12	150.40	—	—	CM5-2341

• Operate and Release values are given in Ampere-Turns. * For Tape and Reel part number, change 1-ND to 2-ND.

Magnetic Reed Switches

Fig. 1

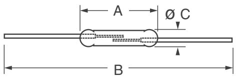

Fig. 2 – SMT, Gull Wing

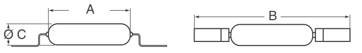

Fig. 3 – SMT, J-Lead

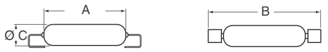

Fig. 4

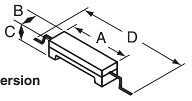

SMD Version

Fig.	Circuit	Ampere Turns	Maximum DC Contact Rating Watts	Maximum DC Contact Rating Volts	Switching Current (Amp)	Carry Current (Amp)	Operate/ Release (ms/μs)	Dimensions - Inches (mm) A	Dimensions - Inches (mm) B	Dimensions - Inches (mm) C	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Coto Part No.
1	SPST	14-23	10	200	0.5	1	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1168-ND	.88	.75	.63	RI-01BAA
	SPST	16-25	10	200	0.5	1	.35/50	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1169-ND	.88	.75	.63	RI-01CA
	SPST	7-21	10	200	0.5	0.5	.30/70	.394 (10)	1.811 (46)	.071 (1.8)	306-1170-ND	1.37	1.16	.97	RI-02A
	SPST	18-32	10	200	0.5	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1171-ND	1.01	.86	.72	RI-03A
	SPST	16-25	10	200	0.5	1.75	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1172-ND	1.01	.86	.72	RI-07AA
	SPST	18-32	10	200	0.5	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1188-ND	1.07	.91	.76	RI-21A
	SPST	18-32	10	200	0.5	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1087-ND	1.07	.91	.76	RI-23A
	SPST	14-23	10	200	0.5	1.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1086-ND	1.07	.91	.76	RI-23AA
	SPST	8-16	10	200	0.25	1	.10/70	.591 (15)	1.811 (46)	.1 (2.54)	306-1085-ND	1.07	.91	.76	RI-23AAA
	SPST	28-52	10	200	0.5	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1088-ND	1.07	.91	.76	RI-23B
	SPST	46-70	10	200	0.5	2.75	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1089-ND	1.07	.91	.76	RI-23C
	SPST	18-32	15	200	1	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1092-ND	1.07	.91	.76	RI-25A
	SPST	14-23	15	200	1	1.75	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1091-ND	1.07	.91	.76	RI-25AA
	SPST	8-16	10	200	0.75	1.5	.25/70	.591 (15)	1.811 (46)	.1 (2.54)	306-1090-ND	1.07	.91	.76	RI-25AAA
	SPST	28-52	25	200	1	2.75	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1093-ND	1.07	.91	.76	RI-25B
	SPST	46-70	25	200	1	3	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1094-ND	1.07	.91	.76	RI-25C
	SPST	20-34	10	200	0.5	1.75	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1082-ND	1.63	1.38	1.15	RI-27A
	SPST	16-25	10	200	0.5	1.75	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1081-ND	1.63	1.38	1.15	RI-27AA
	SPST	10-19	10	180	0.5	1.5	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1080-ND	1.63	1.38	1.15	RI-27AAA
	SPST	20-34	20	200	1	1.25	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1191-ND	1.63	1.38	1.15	RI-29A
	SPST	16-25	15	200	1	1.25	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1083-ND	1.63	1.38	1.15	RI-29AA
	SPST	15-28	30	200	1	2.5	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1099-ND	1.56	1.32	1.11	RI-46A
	SPST	10-19	30	200	0.75	2	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1098-ND	1.56	1.32	1.11	RI-46AA
	SPST	24-51	40	200	1	3	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1100-ND	1.56	1.32	1.11	RI-46B
	SPST	46-70	40	200	1	3	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1101-ND	1.56	1.32	1.11	RI-46C
	SPST	15-28	70	200	1	1.75	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1102-ND	1.56	1.32	1.11	RI-48A
	SPST	24-51	70	200	1	2.25	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1103-ND	1.56	1.32	1.11	RI-48B
	SPST	46-70	70	200	1	2.25	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1104-ND	1.56	1.32	1.11	RI-48C
	SPST	10-15	10	200	0.5	0.5	.15/20	.394 (10)	1.811 (46)	.071 (1.8)	306-1121-ND	1.56	1.32	1.11	RI60GP1015
	SPST	15-20	10	200	0.5	0.5	.15/20	.394 (10)	1.811 (46)	.071 (1.8)	306-1122-ND	1.56	1.32	1.11	RI60GP1520
	SPST	7-14	10	170	0.5	0.4	.15/35	.276 (7)	1.811 (46)	.071 (1.8)	306-1077-ND	2.08	1.76	1.48	RI-70CTA
	SPST	7-15	10	170	0.5	0.4	.15/35	.276 (7)	1.811 (46)	.071 (1.8)	306-1123-ND	2.08	1.76	1.48	RI70GP0715
	SPST	5-15	5	200	0.35	0.5	.35/20	.19 (5)	1.81 (46)	.07 (1.8)	306-1144-ND	2.76	2.34	1.96	RI-80GP0515
	SPDT	10-30	5	175	0.4	0.5	1.0/1.0	.590 (15)	1.988 (50.5)	.1 (2.54)	306-1143-ND	4.36	3.69	3.09	RI-90GP1030

Fig.	Circuit	Ampere Turns	Max. DC Contact Rating Watts	Max. DC Contact Rating Volts	Switching Current (Amps)	Carry Current (Amps)	Operate/ Release (ms/μs)	Package	Dimensions - Inches (mm) A	Dimensions - Inches (mm) B	Dimensions - Inches (mm) C	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 50	Digi-Key Part No.	Tape and Reel Pricing 7,000	Coto Part No.
2	SPST	5-15	5	175	0.35	0.5	.35/20	Gullwing	.196 (5)	.342 (8.7)	.07 (1.8)	306-1145-1-ND	3.06	2.59	2.17	306-1145-2-ND	1222.00/M	RI-80SMD0515G1
	SPST	5-15	5	175	0.35	0.5	.35/20	Gullwing	.196 (5)	.4 (10.16)	.07 (1.8)	306-1146-1-ND	3.06	2.59	2.17	306-1146-2-ND	1222.00/M	RI-80SMD0515G2
	SPST	9-15	10	200	0.5	0.5	.30/70	Gullwing	.394 (10)	.768 (19.5)	.069 (1.75)	306-1190-1-ND	1.69	1.43	1.20	306-1190-2-ND	676.00/M	RI-02SMD-G2
3	SPST	5-15	5	175	0.35	0.5	.35/20	J-Lead	.196 (5)	.279 (7.1)	.07 (1.8)	306-1147-1-ND	3.22	2.73	2.28	306-1147-2-ND	1287.00/M	RI-80SMD0515J

Fig.	Circuit	Ampere Turns	Max. DC Contact Rating Watts	Max. DC Contact Rating Volts	Switching Current (Amps)	Carry Current (Amps)	Package	Dimensions - Inches (mm) A	Dimensions - Inches (mm) B	Dimensions - Inches (mm) C	Dimensions - Inches (mm) D	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 50	Digi-Key Part No.	Tape and Reel Pricing 2,000	Coto Part No.
4	SPST	30-50	5	140	0.35	0.5	Gullwing	.252 (6.4)	.091 (2.31)	.091 (2.31)	.376 (9.55)	306-1148-1-ND	4.91	4.16	3.48	306-1148-2-ND	2265.00/M	CT05-3050-G1
	SPST	15-35	5	140	0.35	0.5	Gullwing	.252 (6.4)	.091 (2.31)	.091 (2.31)	.376 (9.55)	306-1149-1-ND	4.91	4.16	3.48	306-1149-2-ND	2265.00/M	CT05-1535-G1
	SPST	30-50	5	140	0.35	0.5	J-Lead	.252 (6.4)	.091 (2.31)	.091 (2.31)	.376 (9.55)	306-1150-1-ND	5.30	4.49	3.75	306-1150-2-ND	2445.00/M	CT05-3050-J1
	SPST	15-35	5	140	0.35	0.5	J-Lead	.252 (6.4)	.091 (2.31)	.091 (2.31)	.376 (9.55)	306-1151-1-ND	5.30	4.49	3.75	306-1151-2-ND	2445.00/M	CT05-1535-J1
	SPST	15-30	10	200	0.5	0.5	Gullwing	.458 (11.63)	.095 (2.41)	.115 (2.92)	.635 (16.13)	306-1125-1-ND	2.70	2.29	1.91	306-1125-2-ND	1079.00/M	CT10-1530-G1
	SPST	15-40	10	200	0.5	0.5	Gullwing	.458 (11.63)	.095 (2.41)	.115 (2.92)	.635 (16.13)	306-1124-1-ND	2.70	2.29	1.91	306-1124-2-ND	1079.00/M	CT10-1540-G1
	SPST	25-40	10	200	0.5	0.5	Gullwing	.458 (11.63)	.095 (2.41)	.115 (2.92)	.635 (16.13)	306-1126-1-ND	2.70	2.29	1.91	306-1126-2-ND	1079.00/M	CT10-2540-G1

Magnetic Reed Sensors

Meder Magnetic Sensors are magnetically operated proximity switches for either surface mounting, PCB or panel mounting. Use for telephone hook switch detection, door and window sensing, limit switches for garage doors, hoists and conveyers. Switches are completely sealed for indoor/outdoor operation, available in various magnetic sensitivities, perfect for auto-insert equipment and auto-mated processes. All sensors will actuate when a magnetic field is introduced to them and will remain actuated until the magnetic field is removed. **Operating Temperature Range:** -20°C ~ 85°C; -20°C ~ 130°C for Fig. 3.

Fig.	Circuit	Dimensions (mm) A	Dimensions (mm) B	Switching Voltage	Switching Current	Termination or Wiring	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 50	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Meder Part No.
1	SPST-NO	17.00	5.00	200	0.5	100mm PVC Leads	374-1023-ND	8.45	7.54	6.11	—	—	—	MK18-B-100W
	SPST-NO	17.00	5.00	200	0.5	100mm PVC Leads	374-1024-ND	8.45	7.54	6.11	—	—	—	MK18-C-100W
	SPST-NO	25.50	5.75	180	0.5	500mm PVC Leads	374-1027-ND	6.37	5.69	4.61	—	—	—	MK3-1A71B-500W
	SPST-NO	25.50	5.75	180	0.5	500mm PVC Leads	374-1028-ND	6.37	5.69	4.61	—	—	—	MK03-1A66C-500W
	SPST-NC	25.50	5.75	175	0.25	500mm PVC Leads	374-1029-ND	10.01	8.94	7.24	—	—	—	MK3-1B90C-500W
	SPST-NO/NC	25.50	5.75	175	0.25	500mm PVC Leads	374-1030-ND	10.60	9.46	7.67	—	—	—	MK3-1C90C-500W
2	SPST-NO	16.00	2.50	200	0.5	SMD	374-1013-1-ND	1.76	1.57	1.27	374-1013-2-ND	2,500	702.00/M	MK15-B-2
	SPST-NO	11.50	2.30	200	0.5	SMD	374-1017-1-ND	1.95	1.74	1.41	374-1017-2-ND	2,500	780.00/M	MK16-B-2
	SPST-NO	11.50	2.30	200	0.5	SMD	374-1019-1-ND	1.95	1.74	1.41	374-1019-2-ND	2,500	780.00/M	MK16-C-2
	SPST-NO	8.50	2.10	170	0.5	SMD	374-1021-1-ND	2.67	2.38	1.93	374-1021-2-ND	2,000	1066.00/M	MK17-B-2
3	SPST-NO	24.90	—	180	0.5	500mm PVC Leads	374-1007-ND	12.68	11.31	9.17	—	—	—	MK11-1A71C-500W
4	SPST	8.6	4.4	170	0.5	SMD	374-1039-1-ND	7.90	6.69	5.59	374-1039-2-ND	1,000	3159.00	CRR05-1A
	SPST	8.6	4.4	170	0.5	SMD	374-1040-1-ND	10.76	9.11	7.62	374-1040-2-ND	1,000	4634.00	CRR05-1AS
	SPST-NO	8.6	4.4	170	0.5	SMD	374-1041-1-ND	8.40	7.27	6.22	374-1041-2-ND	1,000	4199.00	CRF05-1A
	SPST-NO	8.6	4.4	170	0.5	SMD	374-1042-1-ND	10.71	9.27	7.94	374-1042-2-ND	1,000	5480.00	CRF05-1AS
5	SPST-NO	2.8	2.05	3.0	100	SMD	374-1045-1-ND	14.49	12.77	11.22	—	—	—	MMS-B-2
6	SPST-NO	15.2	6.8	200	0.5	PCB Pins	374-1047-5-ND	4.71	3.99	3.34	—	—	—	MS05-1A87-75DHR
	SPST-NO	15.2	6.8	200	0.5	PCB Pins	374-1050-5-ND	5.04	4.27	3.57	—	—	—	MS12-1A87-75D

Fig. 1

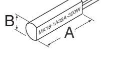

Fig. 2

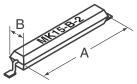

Fig. 3

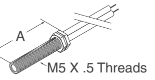

Fig. 4

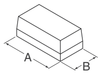

Fig. 5

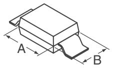

Fig. 6

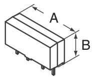

Low Signal Relays

All Relays UL/CSA approved

Mounting Hole Pattern and Connection Diagram
“Bottom view unless otherwise noted”

Fig. 1 — G5V

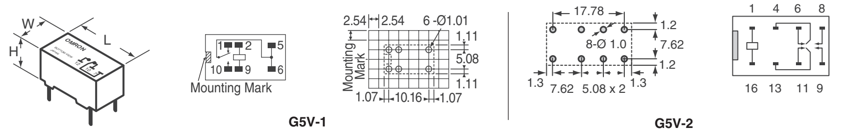

G5V-1

G5V-2

Fig. 2 — G6A-2

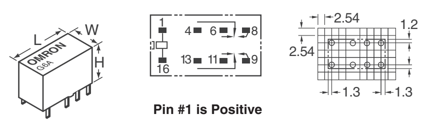

Pin #1 is Positive

Fig. 3 — G5A

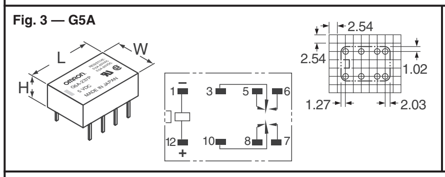

Fig. 4 — G6E

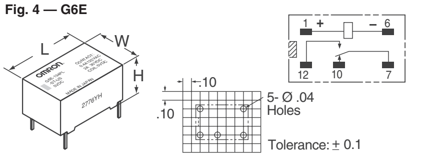

Fig. 5 — G6A-4

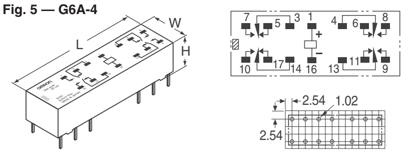

Fig. 6 — G6J

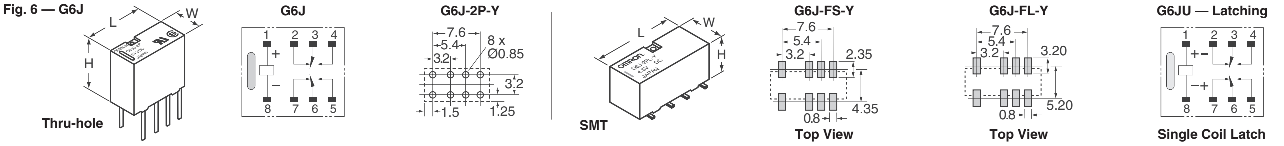

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Oper. Voltage (% of Rated) Pull/Drop/Max. On/Out/Cont.	Operate/ Release Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
PC Mount Low Signal Relays													
1	SPDT	3	60	1	0.5	80/10/200	5/5	10x12.5x7.5	Z2204-ND†	2.33	2.10	1.86	G5V-1-DC3
		5	167			80/10/200			Z773-ND†	2.33	2.10	1.86	G5V-1-DC5
		6	240			80/10/200			Z2538-ND†	2.35	2.12	1.88	G5V-1-DC6
		9	540			80/10/200			Z2539-ND†	2.35	2.12	1.88	G5V-1-DC9
		12	960			80/10/200			Z774-ND†	2.33	2.10	1.86	G5V-1-DC12
		24	3,840			80/10/200			Z775-ND†	2.33	2.10	1.86	G5V-1-DC24
	DPDT	3	18	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z2185-ND	2.85	2.57	2.28	G5V-2-DC3
		5	50			75/5/120			Z767-ND	2.85	2.57	2.28	G5V-2-DC5
		12	288			75/5/120			Z768-ND	2.88	2.59	2.30	G5V-2-DC12
		24	1,152			75/5/120			Z769-ND	2.88	2.59	2.30	G5V-2-DC24
		48	4,000			75/5/120			Z2255-ND	2.69	2.43	2.16	G5V-2-DC48
		5	70	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z770-ND	3.08	2.77	2.46	G5V-2-H-DC5
		12	400			75/5/120			Z771-ND	3.08	2.77	2.46	G5V-2-H-DC12
		24	1,600			75/5/120			Z772-ND	3.08	2.77	2.46	G5V-2-H-DC24
		3	60	2	0.5	75/5/150	7/3	11.5x20.5x10.1	Z2203-ND	3.18	2.86	2.54	G5V-2-H1-DC3
		5	166.7			75/5/150			Z108-ND	3.18	2.86	2.54	G5V-2-H1-DC5
		12	960			75/5/150			Z109-ND	3.18	2.86	2.54	G5V-2-H1-DC12
		24	2,880			75/5/150			Z110-ND	3.18	2.86	2.54	G5V-2-H1-DC24
2	DPDT	5	125	1	0.6	70/10/150	5/5	8.4x20.2x10.1	Z105-ND‡	4.68	4.21	3.74	G6A234PSTUSDC5BYOMZ
		12	720			70/10/150			Z106-ND‡	4.68	4.21	3.74	G6A234PSTUSDC12BYOMZ
		24	2,880			70/10/150			Z107-ND‡	4.68	4.21	3.74	G6A-234P-ST-US-DC24
		3	45	2	0.5	70/10/150	5/3	8.4x20.2x10.1	Z122-ND‡	4.58	4.12	3.66	G6A274PSTUSDC3BYOMZ
		5	125			70/10/150			Z123-ND‡	4.58	4.12	3.66	G6A274PSTUSDC5BYOMZ
		12	720			70/10/150			Z124-ND‡	4.58	4.12	3.66	G6A274PSTUSDC12BYOMZ
		24	2,880			70/10/150			Z125-ND‡	4.58	4.12	3.66	G6A274PSTUSDC24BYOMZ
		24	1,440			70/10/150			Z2246-ND‡	4.58	4.12	3.66	G6A-274P-ST40-US-DC24
		48	9,750			75/5/150			Z2256-ND‡	4.58	4.12	3.66	G6A-274P-ST-US-DC48
3	DPDT	5	125	1	0.5	70/10/150	5/5	7.9x16x9.9	Z706-ND	4.00	3.60	3.20	G5A-237P-DC5
		12	720			70/10/150			Z707-ND	4.00	3.60	3.20	G5A-237P-DC12
		24	2,880			70/10/150			Z708-ND	4.13	3.72	3.30	G5A-237P-DC24
		5	125	1	0.5	70/10/150	5/5	8x16x9.9	Z942-ND	4.33	3.90	3.46	G5A-234P-DC5
		12	720			70/10/150			Z943-ND	4.33	3.90	3.46	G5A-234P-DC12
		24	2,880			70/10/150			Z944-ND	4.33	3.90	3.46	G5A-234P-DC24
4	SPDT	5	63	3	0.6	70/10/190	5/5	8x16x9.9	Z761-ND	4.25	3.83	3.40	G6E-134P-L-ST-US-DC5
		12	360			70/10/190			Z762-ND	3.85	3.47	3.08	G6E-134P-L-ST-US-DC12
		24	1,440			70/10/190			Z763-ND	3.85	3.47	3.08	G6E-134P-L-ST-US-DC24
		3	45	3	0.2	70/10/190	5/5	8.38x16x9.91	Z2599-ND‡	4.10	3.69	3.28	G6E-134P-ST-US-DC3
		9	405			70/10/190			Z2600-ND‡	4.10	3.69	3.28	G6E-134P-ST-US-DC9
		5	125	3	0.2	70/10/190	5/5	7.9x16x9.9	Z830-ND‡	4.03	3.63	3.22	G6E-134P-ST-US-DC5
		12	720			70/10/190			Z831-ND‡	4.03	3.63	3.22	G6E-134P-ST-US-DC12
		24	2,880			70/10/190			Z832-ND‡	4.03	3.63	3.22	G6E-134P-ST-US-DC24
5	4PDT	5	69	1	0.3	70/10/150	7/5	8.4x35.4x10.1	Z940-ND‡	10.10	9.09	8.08	G6A-434P-STUS-DC5
		5	69			70/10/150			Z2257-ND‡	8.05	7.25	6.44	G6A-474P-ST-US-DC5
		12	400			70/10/150			Z206-ND‡	10.10	9.09	8.08	G6A-434P-ST-US-DC12
		24	1,600			70/10/150			Z941-ND‡	10.10	9.09	8.08	G6A-434P-STUS-DC24
Ultracompact — TELECOM (Thru-hole)													
6	DPDT	4.5	137.9	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2131-ND	4.10	3.69	3.28	G6J-2P-Y-DC4.5
		5	173.1			75/10/150			Z2132-ND	4.10	3.69	3.28	G6J-2P-Y-DC5
		12	976.8			75/10/150			Z2133-ND	4.10	3.69	3.28	G6J-2P-Y-DC12
		24	2,600.5			75/10/150			Z2134-ND	4.10	3.69	3.28	G6J-2P-Y-DC24
7	DPDT	4.5	194	1	0.3	75/5/200	3/3	5x10x6.5	Z115-ND	4.30	3.87	3.44	G6K-2P-DC4.5
		5	237			75/5/200			Z116-ND	3.80	3.42	3.04	G6K-2P-DC5
		12	1,407			75/5/200			Z117-ND	3.80	3.42	3.04	G6K-2P-DC12
		24	5,220			75/5/200			Z118-ND	4.30	3.87	3.44	G6K-2P-DC24
		3	91	1	0.3	80/10/150	3/3	5x10x6.5	Z2658-ND	3.79	3.41	3.03	G6K-2P-Y-DC3
		4.5	194			75/5/200			Z131-ND	3.70	3.33	2.96	G6K-2P-Y-DC4.5
		5	237			75/5/200			Z132-ND	3.70	3.33	2.96	G6K-2P-Y-DC5
		12	1,407			75/5/200			Z133-ND	3.70	3.33	2.96	G6K-2P-Y-DC12
		24	5,220			75/5/200			Z134-ND	3.70	3.33	2.96	G6K-2P-Y-DC24
Ultracompact — TELECOM (SMT)													
6	DPDT	3	62.5	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2526TR-ND		758.40/400		G6J-2FS-Y-TR-DC3
		4.5	137.9			75/10/150			Z2135-ND	4.10	3.69	3.28	G6J-2FS-Y-DC4.5
		4.5	137.9			75/10/150			Z2135TR-ND		758.40/400		G6J-2FS-Y-TR-DC4.5

† Sealed case ‡ Meets FCC Part 68 standards

(Continued)

Fig. 7 — G6K

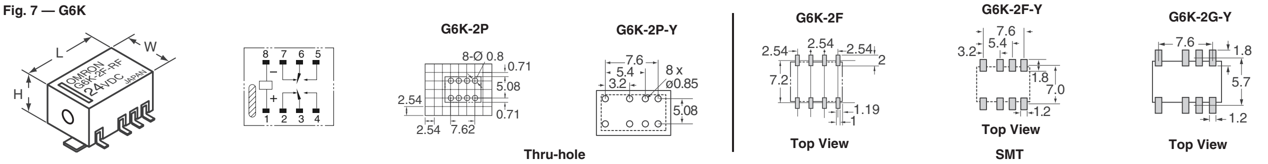

Fig. 8 — G6L

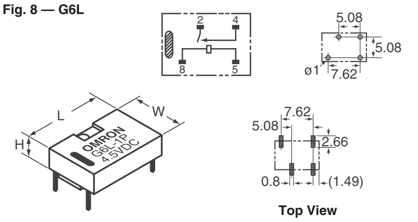

Fig. 9 — G6H Surface Mount

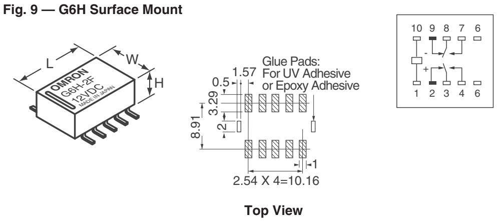

Fig. 10 — G6S-2

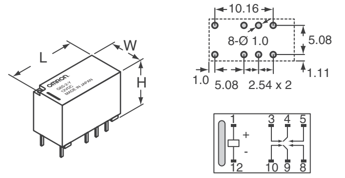

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	115 VAC	Oper. Voltage (% of Rated) Pull/Drop/Max. On/Out/Cont.	Operate/ Release Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
6	DPDT	5	173.1	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2136-ND	4.10	3.69	3.28	G6J-2FS-Y-DC5
						75/10/150			Z2136TR-ND		758.40/400		G6J-2FS-Y-TR-DC5
		12	976.8	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2137-ND	4.10	3.69	3.28	G6J-2FS-Y-DC12
						75/10/150			Z2137TR-ND		758.40/400		G6J-2FS-Y-TR-DC12
		24	2,600.5	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2138-ND	4.10	3.69	3.28	G6J-2FS-Y-DC24
						75/10/150			Z2138TR-ND		758.40/400		G6J-2FS-Y-TR-DC24
		3	62.5	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2525TR-ND		758.40/400		G6J-2FL-Y-TR-DC3
		4.5	137.9	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2139-ND	4.10	3.69	3.28	G6J-2FL-Y-DC4.5
						75/10/150			Z2139TR-ND		758.40/400		G6J-2FL-Y-TR-DC4.5
		5	173.1	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2140-ND	4.10	3.69	3.28	G6J-2FL-Y-DC5
						75/10/150			Z2140TR-ND		758.40/400		G6J-2FL-Y-TR-DC5
		12	976.8	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2141-ND	4.10	3.69	3.28	G6J-2FL-Y-DC12
						75/10/150			Z2141TR-ND		758.40/400		G6J-2FL-Y-TR-DC12
		24	2,600.5	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2142-ND	4.10	3.69	3.28	G6J-2FL-Y-DC24
						75/10/150			Z2142TR-ND		758.40/400		G6J-2FL-Y-TR-DC24
7	DPDT	3	91	1	0.3	75/5/200	3/3	5x10x6.5	Z2186-ND	3.80	3.42	3.04	G6K-2F-DC3
		4.5	194			75/5/200			Z111-ND	3.80	3.42	3.04	G6K-2F-DC4.5
		5	237	1	0.3	75/5/200	3/3	5.2x10x6.5	Z112-ND	3.80	3.42	3.04	G6K-2F-DC5
		5	237			80/10/150			Z112TR-ND		1710.00/900		G6K-2F-TR-DC5
		12	1,407	1	0.3	75/5/200	3/3	5.2x10x6.5	Z113-ND	3.80	3.42	3.04	G6K-2F-DC12
		12	1,315			80/10/150			Z113TR-ND		1704.60/900		G6K-2F-TR-DC12
		24	5,220	1	0.3	75/5/200	3/3	5x10x6.5	Z114-ND	4.10	3.69	3.28	G6K-2F-DC24
		3	91	1	0.3	75/5/200	3/3	5x10x6.5	Z2354-ND	4.10	3.69	3.28	G6K-2F-Y-DC3
		4.5	194			75/5/200			Z127-ND	3.70	3.33	2.96	G6K-2F-Y-DC4.5
		5	237	1	0.3	75/5/200	3/3	5.2x10x6.5	Z128-ND	3.70	3.33	2.96	G6K-2F-Y-DC5
		5	237			80/10/150			Z128TR-ND		1704.60/900		G6K-2F-Y-TR-DC5
		12	1,407	1	0.3	75/5/200	3/3	5.2x10x6.5	Z129-ND	3.70	3.33	2.96	G6K-2F-Y-DC12
		12	1,315			80/10/150			Z129TR-ND		1710.00/900		G6K-2F-Y-TR-DC12
		24	5,220	1	0.3	75/5/200	3/3	5.2x10x6.5	Z130-ND	3.70	3.33	2.96	G6K-2F-Y-DC24
		24	5,220			80/10/150			Z130TR-ND		1704.60/900		G6K-2F-Y-TR-DC24
		4.5	194	1	0.3	75/5/200	3/3	5.2x10x6.5	Z135-ND	3.70	3.33	2.96	G6K-2G-Y-DC4.5
		5	237			75/5/200			Z136-ND	3.70	3.33	2.96	G6K-2G-Y-DC5
		5	237			80/10/150			Z2657TR-ND		1710.00/900		G6K-2G-TR-DC5
		12	1,407			75/5/200			Z137-ND	3.70	3.33	2.96	G6K-2G-Y-DC12
		12	1,315			80/10/150			Z2656TR-ND		1710.00/900		G6K-2G-TR-DC12
		24	5,220			75/5/200			Z138-ND	3.70	3.33	2.96	G6K-2G-Y-DC24
8	SPST	3	62.5	1	0.3	75/10/150	5/5	4.0x10.6x7	Z1230-ND	1.75	1.58	1.40	G6L-1F-DC3
		4.5	140.4			75/10/150			Z1231-ND	1.75	1.58	1.40	G6L-1F-DC4.5
		5	171.1			75/10/150			Z1232-ND	1.75	1.58	1.40	G6L-1F-DC5
		12	979.8			75/10/150			Z1233-ND	1.75	1.58	1.40	G6L-1F-DC12
		24	2504			75/10/150			Z2040-ND	2.26	2.03	1.81	G6L-1F-DC24
9	DPDT	5	178	1	0.5	75/10/120	3/2	5.2x14x9	Z827-ND	5.93	5.34	4.74	G6H-2F-DC5
		12	1,028			75/10/120			Z828-ND	5.93	5.34	4.74	G6H-2F-DC12
		24	2,880			75/10/120			Z829-ND	6.73	6.06	5.38	G6H-2F-DC24
10	DPDT	4.5	145	2	0.5	75/10/200	4/4	9.2x14.8x7.3	Z2601-ND	4.77	4.30	3.82	G6S-2-DC4.5
		5	178			75/10/200			Z2615-ND	4.77	4.30	3.82	G6S-2-DC5BYOMR
		9	579			75/10/200			Z2609-ND	4.77	4.30	3.82	G6S2DC9BYOMR
		12	1,028			75/10/200			Z2607-ND	4.77	4.30	3.82	G6S2DC12BYOMR
		24	2,880			75/10/200			Z2608-ND	5.35	4.82	4.29	G6S2DC24BYOMR
11	DPDT	3	64.3	2 @ 30VAC	0.5	75/10/200	4/4	7.3x14.8x9.2	Z2187-ND	4.48	4.03	3.58	G6S2FDC3BYOMR
		3	64.3			75/10/200			Z2187TR-ND		921.60/400		G6S2FTRDC3BYOMR
		5	178	2 @ 30VAC	0.5	75/10/200	4/4	7.3x14.8x9.2	Z888-ND	4.48	4.03	3.58	G6S2FDC5BYOMR
		5	178			75/10/200			Z888TR-ND		921.60/400		G6S2FTRDC5BYOMR
		12	1,028	2 @ 30VAC	0.5	75/10/200	4/4	7.3x14.8x9.2	Z889-ND	4.48	4.03	3.58	G6S2FDC12BYOMR
		12	1,028			75/10/200			Z889TR-ND		921.60/400		G6S2FTRDC12BYOMR
		24	2,880	2 @ 30VAC	0.5	75/10/200	4/4	7.3x14.8x9.2	Z890-ND	5.10	4.59	4.08	G6S2FDC24BYOMR
		24	2,880			75/10/170			Z890TR-ND		1029.60/400		G6S2FTRDC24BYOMR
		5	178	2 @ 30VAC	0.5	75/10/200	4/4	7.3x14.8x9.2	Z891-ND	4.48	4.03	3.58	G6S2GDC5BYOMR
		12	1,028			75/10/200			Z892-ND	4.48	4.03	3.58	G6S2GDC12BYOMR
		24	2,880			75/10/200			Z893-ND	5.10	4.59	4.08	G6S2GDC24BYOMR
12	DPDT	3	64.3	1	0.5	75/10/200	3/2	5x14x9	Z2540-ND‡	4.00	3.60	3.20	G6H-2-DC3
		5	178			75/10/200			Z740-ND‡	4.00	3.60	3.20	G6H-2-DC5
		6	257			75/10/200			Z2541-ND‡	4.00	3.60	3.20	G6H-2-DC6
		9	579			75/10/200			Z2542-ND‡	4.00	3.60	3.20	G6H-2-DC9
		12	1,028			75/10/200			Z741-ND‡	4.00	3.60	3.20	G6H-2-DC12
		24	2,880			75/10/200			Z742-ND‡	5.03	4.53	4.02	G6H-2-DC24
8	SPST	3	50	1	0.3	75/10/150	5/5	4.0x10.6x7	Z1226-ND	1.75	1.58	1.40	G6L-1P-DC3
		4.5	112.5			75/10/150			Z1227-ND	1.75	1.58	1.40	G6L-1P-DC4.5
		5	139			75/10/150			Z1228-ND	1.75	1.58	1.40	G6L-1P-DC5
		12	800			75/10/150			Z1229-ND	1.75	1.58	1.40	G6L-1P-DC12
		24	2,504			75/10/150			Z2041-ND	2.05	1.85	1.64	G6L-1P-DC24

† Sealed case ‡ Meets FCC Part 68 standards

(Continued)

Fig. 11 — G6S

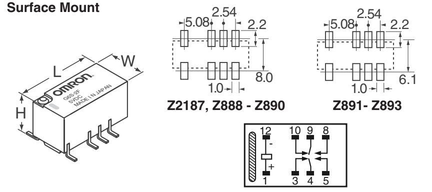

Fig. 12 — G6H

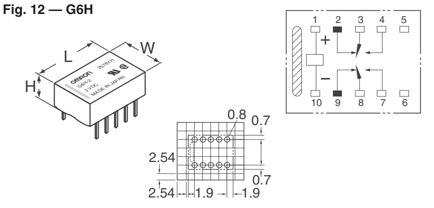

Fig. 13 — G6AK

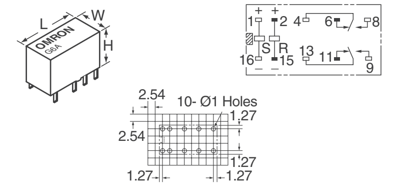

Fig. 14 — G6HK

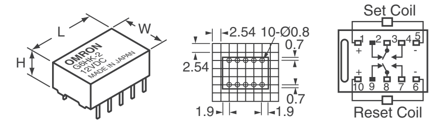

Fig. 15 — G6SK

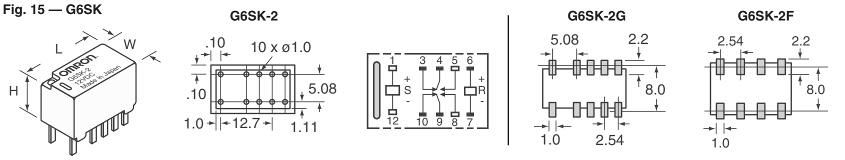

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Oper. Voltage (% of Rated) Pull/Drop/Max. On/Out/Cont.	Operate/ Release Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
Low Signal Relays — Single and Dual Coil Latching Type													
13	DPDT	5	139	1	0.3	70/70/200	5/5	8.4x20.2x10.1	Z749-ND‡	5.85	5.27	4.68	G6AK-234P-ST-US-DC5
		12	800			70/70/200			Z750-ND‡	4.68	4.21	3.74	G6AK-234P-ST-US-DC12
		24	3,200			70/70/200			Z751-ND‡	5.85	5.27	4.68	G6AK-234P-ST-US-DC24
	DPDT	5	139	1	0.3	70/70/200	5/5	8.4x20.2x10.1	Z2595-ND	5.97	5.38	4.78	G6AK-274P-ST-US-DC5
		12	800			70/70/200			Z2593-ND	5.97	5.38	4.78	G6AK-274P-ST-US-DC12
		24	3,200			70/70/200			Z2594-ND	5.97	5.38	4.78	G6AK-274P-ST-US-DC24
—	SPDT	5	125	2	0.4	70/70/190	5/5	7.9x16x9.9	Z833-ND‡†	5.20	4.68	4.16	G6EK-134P-ST-US-DC5
		12	720			70/70/190			Z834-ND‡†	5.20	4.68	4.16	G6EK-134P-ST-US-DC12
		24	2,880			70/70/190			Z835-ND‡†	5.40	4.86	4.32	G6EK-134P-ST-US-DC24
14	DPDT	3	45	1	0.5	75/75/150	3/2	5x14x9	Z2543-ND†	4.85	4.37	3.88	G6HK-2-DC3
		5	125			75/75/150			Z965-ND†	4.85	4.37	3.88	G6HK-2-DC5
		6	180			75/75/150			Z2544-ND†	4.85	4.37	3.88	G6HK-2-DC6
		9	405			75/75/150			Z2545-ND†	4.85	4.37	3.88	G6HK-2-DC9
		12	720			75/75/150			Z966-ND†	4.85	4.37	3.88	G6HK-2-DC12
		24	1,920			75/75/150			Z967-ND†	5.23	4.71	4.18	G6HK-2-DC24
6	DPDT	4.5	204.3	1	0.3	75/75/150	3/3	9x10.6x5.7	Z2143-ND	4.20	3.78	3.36	G6JU-2P-Y-DC4.5
		5	245.5			75/75/150			Z2144-ND	4.20	3.78	3.36	G6JU-2P-Y-DC5
		12	1,329.2			75/75/150			Z2145-ND	4.20	3.78	3.36	G6JU-2P-Y-DC12
		24	2600			75/75/150			Z2146-ND	4.80	4.32	3.84	G6JU-2P-Y-DC24
		4.5	204.3	1	0.3	75/75/150	3/3	10x10.6x5.7	Z2147-ND	4.20	3.78	3.36	G6JU-2FL-Y-DC4.5
		5	245.5			75/75/150			Z2148-ND	4.20	3.78	3.36	G6JU-2FL-Y-DC5
		12	1,329.2			75/75/150			Z2149-ND	4.20	3.78	3.36	G6JU-2FL-Y-DC12
		24	2600			75/75/150			Z2150-ND	4.80	4.32	3.84	G6JU-2FL-Y-DC24
		24	4430	1	0.3	75/75/150	3/3	10x10.3x4.8	Z1214-ND	4.20	3.78	3.36	G6JU-2FL-DC24
		4.5	204.3	1	0.3	75/75/150	3/3	10x10.6x5.7	Z2151-ND	4.20	3.78	3.36	G6JU-2FS-Y-DC4.5
		5	245.5			75/75/150			Z2152-ND	4.20	3.78	3.36	G6JU-2FS-Y-DC5
		12	1,329.2			75/75/150			Z2153-ND	4.20	3.78	3.36	G6JU-2FS-Y-DC12
		24	2600			75/75/150			Z2154-ND	4.80	4.32	3.84	G6JU-2FS-Y-DC24
		4.5	207.4	1	0.3	75/75/150	3/3	10x10.3x4.8	Z1219-ND	4.20	3.78	3.36	G6JU-2FS-DC4.5
		12	1,309			75/75/150			Z1221-ND	4.20	3.78	3.36	G6JU-2FS-DC12
		24	3,672			75/75/150			Z1222-ND	4.20	3.78	3.36	G6JU-2FS-DC24
15	DPDT	5	125	2	0.5	75/75/170	4/4	9.2x14.8x7.3	Z2665-ND	5.41	4.87	4.33	G6SK-2-DC5
		12	720			75/75/170			Z2663-ND	5.41	4.87	4.33	G6SK-2-DC12
		24	1,920			75/75/140			Z2664-ND	6.10	5.49	4.88	G6SK-2-DC24
		5	125	2	0.5	75/75/170	4/4	9.2x14.8x7.3	Z2668-ND	5.41	4.87	4.33	G6SK-2F-DC5
		12	720			75/75/170			Z2666-ND	5.41	4.87	4.33	G6SK-2F-DC12
		24	1,920			75/75/140			Z2667-ND	6.20	5.58	4.96	G6SK-2F-DC24

† Sealed case ‡ Meets FCC Part 68 standards

High Frequency Relays

All Relays UL/CSA approved

Mounting Hole Pattern and Connection Diagram
"Bottom view unless otherwise noted"

Fig. 1 — G6Y

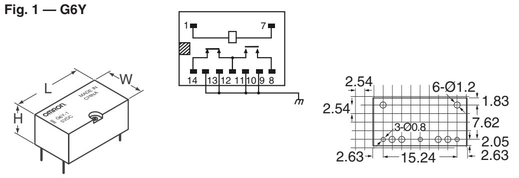

Fig. 2 — G6Z-1PE

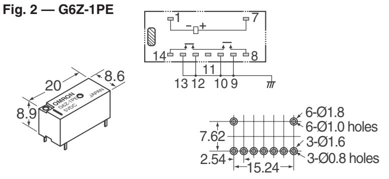

Fig. 3 — G6Z-1P

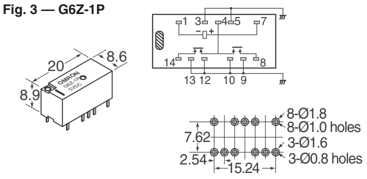

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC / 115 VAC	Oper. Voltage (% of Rated) Pull/Drop/Max. On/Out/Cont.	Operate/ Release Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
High Frequency — 900MHz, 1GHz, 2.5GHz, or 2.6GHz												
1	SPDT	5	125	.01 @ 30AC/DC	75/10/150	10/5	9.2x20x11.7	Z119-ND	4.20	3.78	3.36	G6Y-1-DC5
		12	720		75/10/150			Z120-ND	4.20	3.78	3.36	G6Y-1-DC12
		24	2,880		75/10/150			Z121-ND	4.20	3.78	3.36	G6Y-1-DC24
2	SPDT	5	125	.01 @ 30VAC/VDC	3.75/.5/7.5	10/10	8.9x20x8.6	Z1601-ND	5.44	4.90	4.36	G6Z-1PE-DC5
		12	720.4		9/1.2/18			Z1602-ND	5.69	5.12	4.55	G6Z-1PE-DC12
		24	2,880.1		18/2.4/36			Z1603-ND	5.69	5.12	4.55	G6Z-1PE-DC24
3	SPDT	5	125	.01 @ 30VAC/VDC	3.75/.5/7.5	10/10	8.9x20x8.6	Z1598-ND	5.69	5.12	4.55	G6Z-1P-DC5
		12	720.4		9/1.2/18			Z1599-ND	5.69	5.12	4.55	G6Z-1P-DC12
		24	2,880.1		18/2.4/36			Z1600-ND	5.94	5.35	4.75	G6Z-1P-DC24

† Sealed case ‡ Meets FCC Part 68 standards

(Continued)

High Frequency Relays *(Cont.)*

Fig. 4 — G6Z - Surface Mount

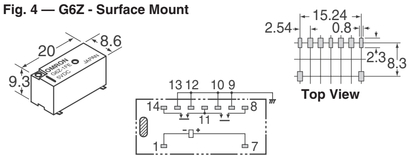

Fig. 5 — G6Z

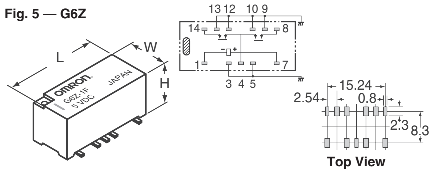

Fig. 6 — G6W-1F

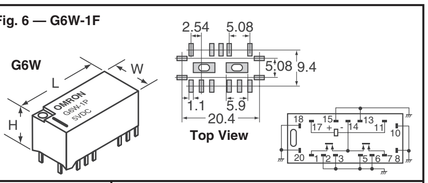

Fig. 7 — G6W-1P

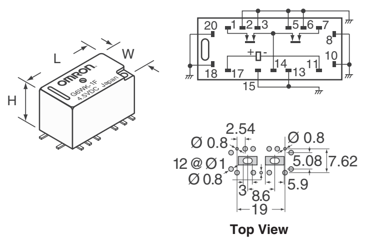

Fig. 8 — G6K

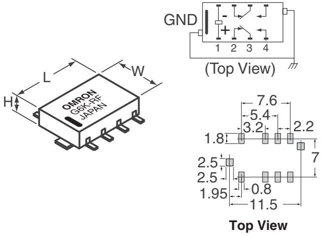

Fig. 9 — G9YA

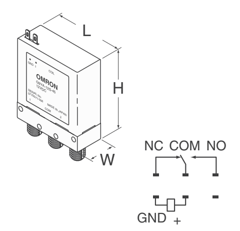

Fig. 10 — G5Y

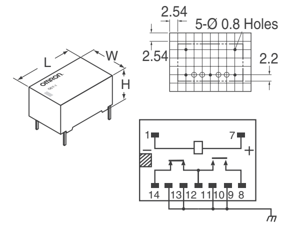

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Oper. Voltage (% of Rated) Pull/Drop/Max. On/Out/Cont.	Operate/ Release Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
4	SPDT	5	125	.01 @ 30VAC/VDC		3.75/.5/7.5	10/10	9.3 x20x8.6	Z1607-ND	5.94	5.35	4.75	G6Z-1FE-DC5
		12	720.4			9/1.2/18			Z1608-ND	6.19	5.57	4.95	G6Z-1FE-DC12
		24	2,880.1			18/2.4/36			Z1609-ND	5.26	4.74	4.22	G6Z-1FE-DC24
5	SPDT	5	125	.01 @ 30VAC/VDC		3.75/.5/7.5	10/10	9.3 x20x8.6	Z1604-ND	5.69	5.12	4.55	G6Z-1F-DC5
		12	720.4			9/1.2/18			Z1605-ND	5.47	4.93	4.38	G6Z-1F-DC12
		24	2,880.1			18/2.4/36			Z1606-ND	6.43	5.79	5.15	G6Z-1F-DC24
6	SPDT	4.5	101	.01 @ 30AC/DC		80/10/150	10/10	9.2x20x9.4	Z2047-ND	112.50	101.25	90.00	G6W-1F-DC4.5
		12	720			80/10/150			Z2045-ND	112.50	101.25	90.00	G6W-1F-DC12
		24	2,880			80/10/150			Z2046-ND	112.50	101.25	90.00	G6W-1F-DC24
7	SPDT	4.5	101	.01 @ 30AC/DC		80/10/150	10/10	8.9x20x9.4	Z2050-ND	112.50	101.25	90.00	G6W-1P-DC4.5
		12	720			80/10/150			Z2048-ND	112.50	101.25	90.00	G6W-1P-DC12
		24	2,880			80/10/150			Z2049-ND	112.50	101.25	90.00	G6W-1P-DC24
8	DPDT	3	91	1	0.3	80/10/150	3/3	5.4x10.3x6.9	Z2035-ND	25.30	22.77	20.24	G6K-2F-RF-DC3
		4.5	194			80/10/150			Z2036-ND	25.30	22.77	20.24	G6K-2F-RF-DC4.5
		5	237			80/10/150			Z2037-ND	25.30	22.77	20.24	G6K-2F-RF-DC5
		6	341			80/10/150			Z2038-ND	25.30	22.77	20.24	G6K-2F-RF-DC6
		9	795			80/10/150			Z2039-ND	25.30	22.77	20.24	G6K-2F-RF-DC9
		12	1,315	1	0.3	80/10/150	3/3	5.4x10.3x6.9	Z2033-ND	25.30	22.77	20.24	G6K-2F-RF-DC12
		24	5,220			80/10/150			Z2034-ND	25.30	22.77	20.24	G6K-2F-RF-DC24
Relay High Frequency 50 Ohm Coaxial													
9	SPDT	4.5	29	120W @ 3GHz		80/10/150	15/15	39x34x13.2	Z2510-ND	662.50	596.25	530.00	G9YA-12S-45 DC4.5
		12	205			80/10/150			Z2511-ND	662.50	596.25	530.00	G9YA-12S-45 DC12
		24	822			80/10/150			Z2512-ND	662.50	596.25	530.00	G9YA-12S-45 DC24
High Frequency — Isolation of 68dB (Typical), 900MHz or 2GHz													
10	SPDT	5	83	.01 @ 24AC/DC		75/10/130	10/5	9x20.5x11.5	Z723-ND‡†	6.15	5.68	5.33	G5Y-1-DC5
		24	1,920			75/10/130			Z725-ND‡†	7.18	6.63	6.22	G5Y-1-DC24

† Sealed case ‡ Meets FCC Part 68 standards

PCB Power Relays

All Relays UL/CSA approved

Mounting Hole Pattern and Connection Diagram
“Bottom view unless otherwise noted”

Fig. 1 — G6C

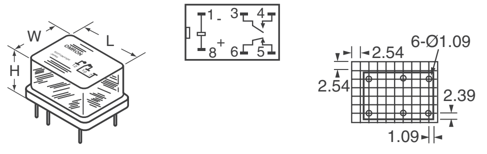

Fig. 2 — G5C

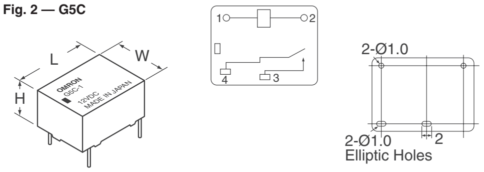

Fig. 3 — G6B-2

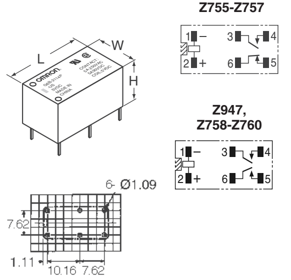

Fig. 4 — G6B-1 and G6BK-1

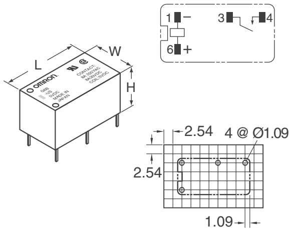

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Additional Features	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
PCB Power Low Profile Relays												
1	SPST-NO/NC	5	125	8	8	Flat Pack Sealed	9.9x20x15	Z949-ND	5.73	5.16	4.58	G6C-2114P-US-DC5
		12	720					Z950-ND	5.73	5.16	4.58	G6C-2114P-US-DC12
		24	2,880					Z951-ND	5.90	5.31	4.72	G6C-2114P-US-DC24
—	PC Mount Relay Socket for G6C Series						15x23x10.79	Z126-ND	1.90	1.71	1.52	P6C-06P
2	SPST-NO	5	125	10	10	Flat Pack Sealed	11x22x16	Z2155-ND	3.70	3.33	2.96	G5CA-1A4-DC5
		12	720					Z2156-ND	3.70	3.33	2.96	G5CA-1A4-DC12
		24	2,880					Z2157-ND	3.70	3.33	2.96	G5CA-1A4-DC24
		5	125	10	10	Flat Pack Sealed	11x22x16	Z2158-ND	3.43	3.09	2.74	G5CA-1A-DC5
		12	720					Z2159-ND	3.43	3.09	2.74	G5CA-1A-DC12
		24	2,880					Z2160-ND	3.55	3.20	2.84	G5CA-1A-DC24
		5	125	10	15	High Current Type	11x22x16	Z2161-ND	3.75	3.38	3.00	G5CA-1A-E-DC5
		12	720					Z2162-ND	3.75	3.38	3.00	G5CA-1A-E-DC12
		24	2,880					Z2163-ND	3.75	3.38	3.00	G5CA-1A-E-DC24
—	SPST-NO	12	720	10	15	PCB & QC Term.	11x22.1x25.1	Z2164-ND	5.05	4.55	4.04	G5CA-1A-TP-E-DC12
		24	2,880					Z2165-ND	5.05	4.55	4.04	G5CA-1A-TP-E-DC24
PCB Power Relays												
3	SPST-NO	5	83	5	5	Fully Sealed	9.9x20.1x9.9	Z946-ND	5.05	4.55	4.04	G6B-2114P-US-DC5
	SPST-NC	6	120	5	5	Fully Sealed	9.9x20.1x9.9	Z755-ND	5.05	4.55	4.04	G6B-2114P-US-DC6

(Continued)

Fig. 5 — G6C

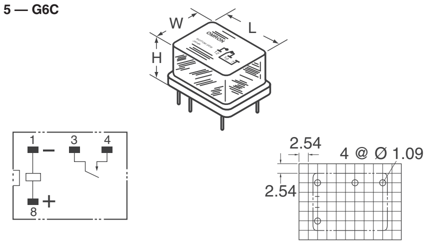

Fig. 6 — G6M

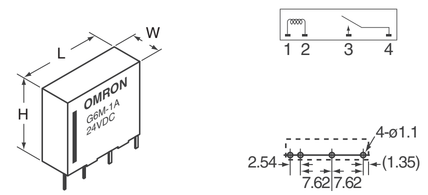

Fig. 7 — G6DS

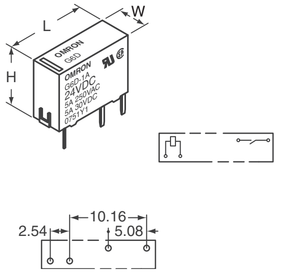

Fig. 8 — G5Q

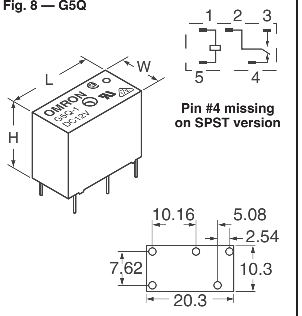

Pin #4 missing on SPST version

Fig. 9 — G5SB

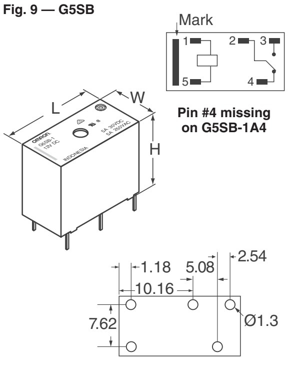

Pin #4 missing on G5SB-1A4

Fig. 10 - G4A

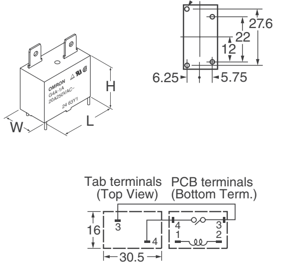

Fig. 11 - G4B

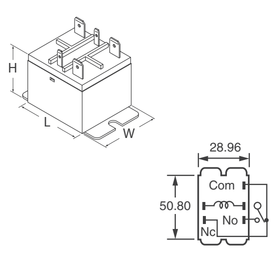

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Additional Features	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
3	SPST-NO/NC	12	480	5	5	Fully Sealed	9.9x20.1x9.9	Z756-ND	5.05	4.55	4.04	G6B-2114P-US-DC12
		24	1,920					Z757-ND	5.28	4.75	4.22	G6B-2114P-US-DC24
	DPST-NO	5	83	5	5	Fully Sealed	9.9x20.1x9.9	Z947-ND	5.05	4.55	4.04	G6B-2214P-US-DC5
		6	120					Z758-ND	5.05	4.55	4.04	G6B-2214P-US-DC6
		12	480					Z759-ND	5.05	4.55	4.04	G6B-2214P-US-DC12
		24	1,920					Z760-ND	5.28	4.75	4.22	G6B-2214P-US-DC24
—	PC Mount Relay Socket for G6B Series SPST..............................						10.16x23x9.9	Z993-ND	1.50	1.35	1.20	P6B-04P
—	PC Mount Relay Socket for G6B Series DPST..............................						10.16x23x9.9	Z994-ND	1.93	1.74	1.54	P6B-26P
—	SPST-NO	5	125	5	5	Fully Sealed	12.5x17.5x6.5	Z2243-ND	3.50	3.15	2.80	G6D-1A-ASI-DC5
		12	720					Z2242-ND	3.50	3.15	2.80	G6D-1A-ASI-DC12
		24	2,880					Z2244-ND	3.50	3.15	2.80	G6D-1A-ASI-DC24
—	PC Mount Relay Socket for G6D Series SPST-NO						10.8x19.7x6.9	Z1684-ND	2.78	2.51	2.23	P6D-04P
4	SPST-NO	5	125	5	5	Semi Sealed	9.9x20x9.9	Z945-ND	4.13	3.72	3.30	G6B-1114P-US-DC5
		6	180					Z752-ND	4.13	3.72	3.30	G6B-1114P-US-DC6
		12	720					Z753-ND	4.13	3.72	3.30	G6B-1114P-US-DC12
		24	2,880					Z754-ND	4.25	3.83	3.40	G6B-1114P-US-DC24
		5	125	8	8	Semi Sealed	9.9x20x9.9	Z712-ND	4.95	4.46	3.96	G6B-1174P-US-DC5
		12	720					Z713-ND	4.95	4.46	3.96	G6B-1174P-US-DC12
		24	2,880					Z714-ND	5.13	4.62	4.10	G6B-1174P-US-DC24
		5	125	5	5	1 Coil Latching	9.9x20x9.9	Z2598-ND	5.44	4.90	4.36	G6BK-1114P-US-DC5
		12	720					Z2596-ND	5.44	4.90	4.36	G6BK-1114P-US-DC12
		24	2,880					Z2597-ND	7.07	6.37	5.66	G6BK-1114P-US-DC24
5	SPST-NO	5	125	10	10	Fully Sealed	10.2x20x15	Z715-ND	4.98	4.48	3.98	G6C-1114P-US-DC5
		12	720					Z716-ND	4.98	4.48	3.98	G6C-1114P-US-DC12
		24	2,880					Z948-ND	5.13	4.62	4.10	G6C-1114P-US-DC24
PCB Power Slim Type Relays												
6	SPST	12	1,200	3	3	Fully Sealed	17.5x20x5	Z2042-ND	4.50	4.05	3.60	G6M-1A-DC12
		24	4,800					Z2043-ND	4.85	4.37	3.88	G6M-1A-DC24
		5	208					Z2044-ND	4.50	4.05	3.60	G6M-1A-DC5
7	SPST-NO	5	139	5	5	Standard Sensitivity	12.5x20.3x5.08	Z2317-ND	4.75	4.28	3.80	G6DS-1A-DC5
		12	800					Z2318-ND	4.75	4.28	3.80	G6DS-1A-DC12
		24	3,200					Z2319-ND	5.18	4.67	4.15	G6DS-1A-DC24
		5	208	5	5	High Sensitivity	12.5x20.3x5.08	Z2320-ND	4.96	4.47	3.97	G6DS-1A-H-DC5
		12	1,200					Z2321-ND	4.89	4.40	3.91	G6DS-1A-H-DC12
		24	4,800					Z2322-ND	5.32	4.80	4.26	G6DS-1A-H-DC24
—	SPST-NO	5	125	3	3	Fully Sealed	12.5x17.5x6.5	Z1674-ND	2.18	1.96	1.74	G5NB-1A-DC5
		12	720					Z1675-ND	2.18	1.96	1.74	G5NB-1A-DC12
		24	2,880					Z1676-ND	2.18	1.96	1.74	G5NB-1A-DC24
8	SPST	12	720	5	10	Fully Sealed	15.8x20.3x10.3	Z219-ND	2.15	1.94	1.72	G5Q-1A-DC12
		24	2,880					Z220-ND	2.15	1.94	1.72	G5Q-1A-DC24
	SPDT	12	360	5	10	Fully Sealed	15.8x20.3x10.3	Z221-ND	2.25	2.03	1.80	G5Q-1-DC12
		24	1,440					Z222-ND	2.25	2.03	1.80	G5Q-1-DC24
	SPST	12	720	5	10	Fully Sealed	15.8x20.3x10.3	Z223-ND	2.30	2.07	1.84	G5Q-1A4-DC12
		24	2,880					Z224-ND	2.30	2.07	1.84	G5Q-1A4-DC24
	SPDT	12	360	5	10	Fully Sealed	15.8x20.3x10.3	Z225-ND	2.40	2.16	1.92	G5Q-14-DC12
		24	2,880					Z226-ND	2.40	2.16	1.92	G5Q-14-DC24
9	SPDT	12	360	5	5	Fully Sealed	15.8x20.3x10.3	Z2536-ND	1.45	1.31	1.16	G5SB-1-DC12
		24	1,440					Z2537-ND	1.55	1.40	1.24	G5SB-1-DC24
		5	63	5	5	Fully Sealed	15.5x20x10	Z2514-ND	1.53	1.38	1.23	G5SB-1A4-DC5
		12	360					Z2515-ND	1.53	1.38	1.23	G5SB-1A4-DC12
		24	1,440					Z2516-ND	1.64	1.48	1.31	G5SB-1A4-DC24
		5	63	5	5	Fully Sealed	15.5x20x10	Z1640-ND	1.45	1.31	1.17	G5SB-14-DC5
		9	202					Z1641-ND	1.45	1.31	1.17	G5SB-14-DC9
		12	360					Z1642-ND	1.45	1.31	1.17	G5SB-14-DC12
		24	1,440					Z1643-ND	1.56	1.40	1.25	G5SB-14-DC24
PCB Mount Power Relays with QC Terminals												
10	SPST-NO	12	160	20	20	—	23.5 x 30.5 x 16	Z952-ND	5.78	5.20	4.62	G4A-1A-E-DC12BYOMZ
11	SPDT	24VAC	260	15	15	QC Terminal	29 x 50 x 29	Z958-ND	9.33	8.40	7.46	G4B-112T1CUS-AC24
		120VAC	6,500	15	15		29 x 50 x 29	Z959-ND	9.20	8.28	7.36	G4B-112T1CUS-AC120
		240VAC	6,500	15	15		29 x 50 x 29	Z2714-ND	13.08	11.77	10.46	G4B-112T1-C-US-AC240
	SPST-NO	120VAC	6,500	15	15	QC Terminal	29 x 50 x 29	Z198-ND	8.75	7.88	7.00	G4B-112TUS-AC120
G2R-S Socket Mount Relays												
12	SPDT	6	69	10	5	Standard Plug-In	35.5 x 29 x 13	Z2224-ND	4.83	4.35	3.86	G2R-1-S-DC6(S)
		12	275	10	5		35.5 x 29 x 13	Z1632-ND	5.94	5.35	4.75	G2R-1-S-DC12S
		24	1,100	10	5		35.5 x 29 x 13	Z1633-ND	5.05	4.55	4.05	G2R-1-S-DC24S
		48	4,220	10	5		35.5 x 29 x 13	Z2230-ND	5.40	4.86	4.32	G2R-1-S-DC48(S)
		24VAC	260	10	5	Standard Plug-In	35.5 x 29 x 13	Z1634-ND	7.90	7.11	6.32	G2R-1-S-AC24S
		120VAC	6,500	10	5		35.5 x 29 x 13	Z1635-ND	8.66	7.80	6.93	G2R-1-S-AC120S
		240VAC	30.3K	10	5		35.5 x 29 x 13	Z2227-ND	12.75	11.48	10.20	G2R-1-S-AC240(S)
		6	69	10	5	Plug-In with LED Indicator	35.5 x 29 x 13	Z2233-ND	8.68	7.81	6.94	G2R-1-SN-DC6(S)
		12	275	10	5		35.5 x 29 x 13	Z2232-ND	8.68	7.81	6.94	G2R-1-SN-DC12(S)
		24	1,113	10	5		35.5 x 29 x 13	Z2234-ND	8.68	7.81	6.94	G2R-1-SN-DC24(S)
		24VAC	253	10	5		35.5 x 29 x 13	Z2235-ND	8.88	7.99	7.10	G2R-1-SN-AC24(S)
		120VAC	7,286	10	5		35.5 x 29 x 13	Z2236-ND	11.43	10.29	9.14	G2R-1-SN-AC120(S)
	DPDT	6	69	5	5	Standard Plug-In	35.5 x 29 x 13	Z2225-ND	5.65	5.09	4.52	G2R-2-S-DC6(S)
		12	275	5	5		35.5 x 29 x 13	Z1636-ND	6.79	6.12	5.44	G2R-2-S-DC12S
		24	1,100	5	5		35.5 x 29 x 13	Z1637-ND	6.79	6.12	5.44	G2R-2-S-DC24S
		48	4,220	5	5		35.5 x 29 x 13	Z2231-ND	6.18	5.56	4.94	G2R-2-S-DC48(S)
		24VAC	260	5	5	Standard Plug-In	35.5 x 29 x 13	Z1638-ND	7.15	6.44	5.72	G2R-2-S-AC24S
		120VAC	6,500	5	5		35.5 x 29 x 13	Z1639-ND	9.47	8.53	7.58	G2R-2-S-AC120S
		240VAC	30.3K	5	5		35.5 x 29 x 13	Z2229-ND	12.75	11.48	10.20	G2R-2-S-AC240(S)

(Continued)

Fig. 12 - G2R-S

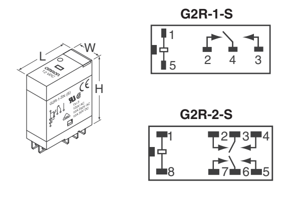

Fig. 13 - G2RV

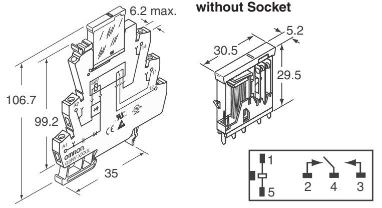

Fig. 14 - G2R-1

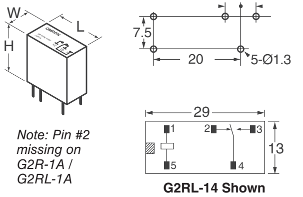

Note: Pin #2 missing on G2R-1A / G2RL-1A

G2RL-14 Shown

Fig. 15 - G2RL-1ATP

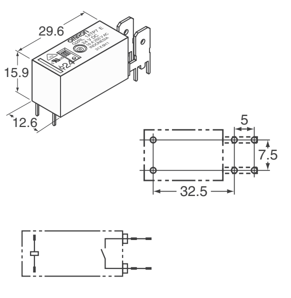

Fig. 16 - G2R-2

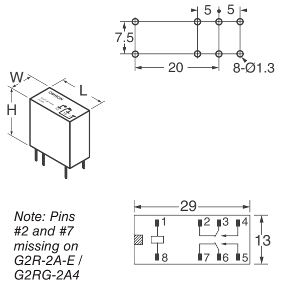

Note: Pins #2 and #7 missing on G2R-2A-E / G2RG-2A4

Fig. 17 - G2R-1A-E

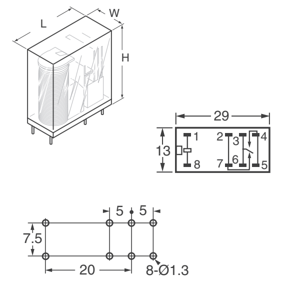

Fig. 18 - G5RL

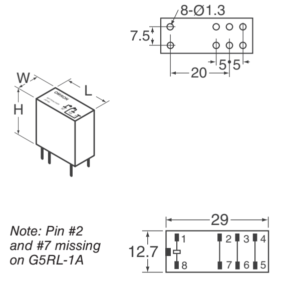

Note: Pin #2 and #7 missing on G5RL-1A

Fig. 19 - G5T

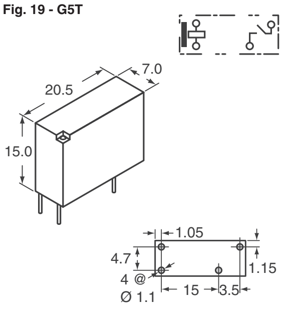

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Additional Features	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
12	DPDT	6	69	5	5	Plug-In with LED Indicator	35.5 x 29 x 13	Z2238-ND	11.05	9.95	8.84	G2R-2-SN-DC6(S)
		12	278	5	5		35.5 x 29 x 13	Z2237-ND	11.33	10.20	9.06	G2R-2-SN-DC12(S)
		24	1,113	5	5		35.5 x 29 x 13	Z2239-ND	10.30	9.27	8.24	G2R-2-SN-DC24(S)
		24VAC	253	5	5		35.5 x 29 x 13	Z2240-ND	10.93	9.84	8.74	G2R-2-SN-AC24(S)
		120VAC	7,286	5	5		35.5 x 29 x 13	Z2241-ND	11.73	10.56	9.38	G2R-2-SN-AC120(S)
—	Track Mounted Socket, Screw Term for G2R-1-S Series							Z2285-ND	9.12	8.21	7.30	P2RF-05
	Track Mounted Socket "Fingersafe" Screw Term for G2R-1-S Series							Z855-ND	3.65	3.29	2.92	P2RF-05-E
	Track Mounted Socket, Screw Term for G2R-2-S Series							Z2286-ND	10.23	9.21	8.19	P2RF-08
	Track Mounted Socket "Fingersafe" Screw Term for G2R-2-S Series							Z207-ND	6.03	5.43	4.82	P2RF-08-E
	PC Mount Relay Socket for G2R-1-S Series							Z995-ND	2.05	1.85	1.64	P2R-05P
	Back Connecting Solder Socket for G2R-1-S Series							Z2283-ND	2.64	2.38	2.12	P2R-05A
	Back Connecting PC Mount Socket for G2R-1-S Series							Z2605-ND	2.25	2.03	1.80	P2R-08P
	Back Connecting Solder Socket for G2R-2-S Series							Z2284-ND	2.64	2.38	2.12	P2R-08A
	Hold Down Clip for use with the G2R-1-S and G2R-2-S Series							Z2287-ND	1.13	1.02	.91	PFC-A1
	Production Screwless Socket (Wire Trap Style) for G2R-1-S							Z2058-ND	4.20	3.78	3.36	PTRF-05-S
	Production Screwless Socket (Wire Trap Style) for G2R-2-S							Z2059-ND	6.60	5.94	5.28	PTRF-08-S
	G2RV DIN Rail Ultra Slim Relays											
13	SPDT	110VAC	7.5	6	6	Relay and DIN Socket with Screw Terminals	—	Z2530-ND	23.68	21.31	18.94	G2RV-SL700-AC110
		230VAC	7.9	6	6			Z2531-ND	23.68	21.31	18.94	G2RV-SL700-AC230
		48VAC/DC	5.2	6	6			Z2532-ND	20.85	18.77	16.68	G2RV-SL700-AC/DC48
		24VAC	13.3	6	6			Z2533-ND	20.85	18.77	16.68	G2RV-SL700-AC/DC24
		12	27.2	6	6			Z2534-ND	19.45	17.51	15.56	G2RV-SL700-DC12DC11
		24	13.3	6	6			Z2535-ND	19.45	17.51	15.56	G2RV-SL700-DC24DC21
		110VAC	7.5	6	6	Relay and DIN Socket with Push-in Terminals	—	Z2554-ND	24.48	22.03	19.58	G2RV-SL500-AC110
		230VAC	7.9	6	6			Z2555-ND	24.48	22.03	19.58	G2RV-SL500-AC230
		48VAC/DC	5.2	6	6			Z2556-ND	22.30	20.07	17.84	G2RV-SL500-AC/DC48
		24VAC	13	6	6			Z2557-ND	20.48	18.43	16.38	G2RV-SL500-AC/DC24
		12	27.2	6	6			Z2558-ND	19.98	17.98	15.98	G2RV-SL500-DC12DC11
		24	5.2	6	6			Z2559-ND	19.98	17.98	15.98	G2RV-SL500-DC24DC21
		12	27.2	6	6	Relay only; no Socket	29.5 x 30.5 x 5.2	Z2527-ND	7.40	6.66	5.92	G2RV-1-S-DC11
		24	13.3	6	6		29.5 x 30.5 x 5.2	Z2528-ND	7.40	6.66	5.92	G2RV-1-S-DC21
		48VAC/DC	5.2	6	6		29.5 x 30.5 x 5.2	Z2529-ND	7.88	7.09	6.30	G2RV-1-S-DC48
—	Cross Bar for G2RV Sockets, Red, 2 poles for Jumpering Power							Z2671-ND	2.12	1.91	1.70	P2RVM-020R
	Cross Bar for G2RV Sockets, Red, 3 poles for Jumpering Power							Z2672-ND	2.93	2.64	2.35	P2RVM-030R
	Cross Bar for G2RV Sockets, Red, 4 poles for Jumpering Power							Z2673-ND	3.91	3.52	3.13	P2RVM-040R
	Cross Bar for G2RV Sockets, Black, 2 poles for Jumpering Grounds							Z2674-ND	2.12	1.91	1.70	P2RVM-020B
	Cross Bar for G2RV Sockets, Black, 3 poles for Jumpering Grounds							Z2675-ND	2.93	2.64	2.35	P2RVM-030B
	Cross Bar for G2RV Sockets, Black, 4 poles for Jumpering Grounds							Z2676-ND	3.91	3.52	3.13	P2RVM-040B
—	PLC Interface for G2RV Sockets for PC Control							Z2669-ND	116.39	—	—	P2RVC-8-O-F
	Separator Plate for G2RV DIN Mount Sockets							Z2670-ND	8.48	7.64	6.79	P2RV-S
	Adhesive Label Sheet for G2RV for Socket Marking							Z2699-ND	17.08	15.37	13.66	R99-16
	PCB Mount Power Relays											
14	SPST-NO	5	47	10	10	Standard G2R; Sealed	25.5 x 29 x 13	Z2323-ND	3.63	3.27	2.90	G2R-1A4-DC5
		12	360	10	10		25.5 x 29 x 13	Z2324-ND	3.63	3.27	2.90	G2R-1A4-DC12
		24	1,440	10	10		25.5 x 29 x 13	Z2325-ND	3.63	3.27	2.90	G2R-1A4-DC24
		48	5,358	10	10		25.5 x 29 x 13	Z2326-ND	3.63	3.27	2.90	G2R-1A4-DC48
		120VAC	6,500	10	10		25.5 x 29 x 13	Z2327-ND	6.68	6.01	5.34	G2R-1A4-AC120
		5	62.5	12	12	Low Profile G2R; Flux Sealed	16 x 29 x 13	Z139-ND	2.70	2.43	2.16	G2RL-1A-DC5
		12	360	12	12		16 x 29 x 13	Z140-ND	2.70	2.43	2.16	G2RL-1A-DC12
		24	1,440	12	12		16 x 29 x 13	Z141-ND	2.70	2.43	2.16	G2RL-1A-DC24
		5	62.5	12	12	Low Profile G2R; Class F Ins.	15.7 x 29 x 12.7	Z2517-ND	2.90	2.61	2.32	G2RL-1A-CF-DC5
		12	360	12	12		15.7 x 29 x 12.7	Z2518-ND	2.90	2.61	2.32	G2RL-1A-CF-DC12
		24	1,440	12	12		15.7 x 29 x 12.7	Z2519-ND	2.90	2.61	2.32	G2RL-1A-CF-DC24
	SPDT	5	47	10	10	Standard G2R; Sealed	25.5 x 29 x 13	Z743-ND	3.40	3.06	2.72	G2R-14-DC5
		12	275	10	10		25.5 x 29 x 13	Z744-ND	3.38	3.04	2.70	G2R-14-DC12
		24	1,100	10	10		25.5 x 29 x 13	Z745-ND	3.38	3.04	2.70	G2R-14-DC24
		24VAC	260	10	10		25.5 x 29 x 13	Z843-ND	5.73	5.16	4.58	G2R-14-AC24
		120VAC	6,500	10	10		25.5 x 29 x 13	Z844-ND	6.30	5.67	5.04	G2R-14-AC120
		5	62.5	12	12	Low Profile G2R	16 x 29 x 13	Z142-ND	3.40	3.06	2.72	G2RL-14-DC5
		12	360	12	12		16 x 29 x 13	Z143-ND	3.40	3.06	2.72	G2RL-14-DC12
		24	1,440	12	12		16 x 29 x 13	Z144-ND	3.40	3.06	2.72	G2RL-14-DC24
		48	5,358	12	12		16 x 29 x 13	Z145-ND	3.78	3.40	3.02	G2RL-14-DC48
15	SPST-NO	12	360	16	16	PBC Power Relay with Quick Connect Terminals	15.9 x 29.6 x 12.6	Z2550-ND	4.98	4.48	3.98	G2RL-1ATP5-E-DC12
		24	1,440	16	16		15.9 x 29.6 x 12.6	Z2551-ND	4.98	4.48	3.98	G2RL-1ATP5-E-DC24
		12	360	16	16		15.9 x 29.6 x 12.6	Z2552-ND	4.90	4.41	3.92	G2RL-1ATP7-E-DC12
		24	1,440	16	16		15.9 x 29.6 x 12.6	Z2553-ND	4.90	4.41	3.92	G2RL-1ATP7-E-DC24
16	DPST-NO	12	180	8	8	UPS Approved G2R; Sealed	25.5 x 29 x 13.5	Z2355-ND	5.58	5.02	4.46	G2RG-2A4-DC12
		24	720	8	8		25.5 x 29 x 13.5	Z2513-ND	5.58	5.02	4.46	G2RG-2A4-DC24
	DPDT	5	62.5	8	8	Low Profile G2R	16 x 29 x 13	Z146-ND	4.03	3.63	3.22	G2RL-24-DC5
		12	360	8	8		16 x 29 x 13	Z147-ND	4.03	3.63	3.22	G2RL-24-DC12
		24	1,440	8	8		16 x 29 x 13	Z148-ND	4.03	3.63	3.22	G2RL-24-DC24
		48	5,358	8	8		16 x 29 x 13	Z149-ND	4.38	3.94	3.50	G2RL-24-DC48
	DPDT	5	47	5	5	Standard Sealed	25.5 x 29 x 13	Z746-ND	4.28	3.85	3.42	G2R-24-DC5
		12	275	5	5		25.5 x 29 x 13	Z747-ND	3.93	3.54	3.14	G2R-24-DC12
		24	1,100	5	5		25.5 x 29 x 13	Z748-ND	3.93	3.54	3.14	G2R-24-DC24
		24VAC	260	5	5		25.5 x 29 x 13	Z845-ND	6.55	5.90	5.24	G2R-24-AC24
		120VAC	6,500	5	5		25.5 x 29 x 13	Z846-ND	7.15	6.44	5.72	G2R-24-AC120
17	SPST-NO	5	47	16	16	High Capacity Unsealed	25.5 x 29 x 13	Z2306-ND	3.43	3.09	2.74	G2R-1A-E-DC5
		12	360	16	16		25.5 x 29 x 13	Z2307-ND	3.43	3.09	2.74	G2R-1A-E-DC12
		24	1,440	16	16		25.5 x 29 x 13	Z2308-ND	3.43	3.09	2.74	G2R-1A-E-DC24
		48	5,358	16	16		25.5 x 29 x 13	Z2309-ND	4.70	4.23	3.76	G2R-1A-E-DC48
		120VAC	6,500	16	16		25.5 x 29 x 13	Z2310-ND	6.68	6.01	5.34	G2R-1A-E-AC120
	SPDT	5	47	16	16	High Capacity Unsealed	25.5 x 29 x 13	Z847-ND	3.48	3.13	2.78	G2R-1-E-DC5
		12	275	16	16		25.5 x 29 x 13	Z848-ND	3.48	3.13	2.78	G2R-1-E-DC12
		24	1,100	16	16		25.5 x 2 9 x 13	Z849-ND	3.48	3.13	2.78	G2R-1-E-DC24

(Continued)

Fig. 20 - G4A

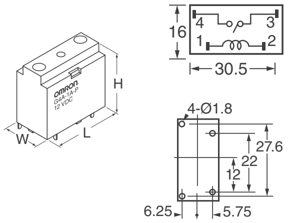

Fig. 21 - G4W

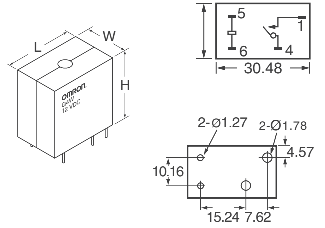

Fig. 22 - G4W

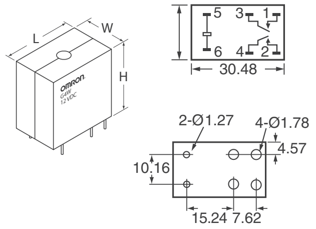

Fig. 23 - G5LA / G5LB / G5LE

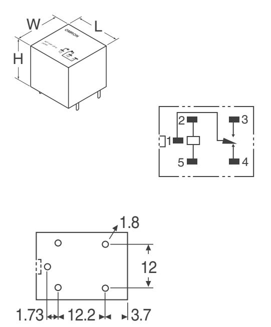

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Additional Features	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
17	DPDT	12	360	10	10	1 Coil Latching	25.5 x 29 x 13	Z2328-ND	7.83	7.05	6.26	G2RK-2-DC12
		24	1,440	10	10		25.5 x 29 x 13	Z2329-ND	7.83	7.05	6.26	G2RK-2-DC24
18	SPST-NO	5	62.5	16	16	High Capacity; High-Inrush	12.7 x 29 x 15.7	Z2579-ND	3.05	2.75	2.44	G5RL-1A-E-HR-DC5
		12	360	16	16		12.7 x 29 x 15.7	Z2580-ND	3.06	2.75	2.45	G5RL-1A-E-HR-DC12
		24	1,440	16	16		12.7 x 29 x 15.7	Z2581-ND	3.06	2.75	2.45	G5RL-1A-E-HR-DC24
	SPDT	24VAC	443	16	16	High Capacity G2R	15.7 x 29 x 12.7	Z2313-ND	5.31	4.79	4.25	G5RL-1-E-AC24
		120VAC	11.5K	16	16		15.7 x 29 x 12.7	Z2312-ND	6.48	5.83	5.18	G5RL-1-E-AC115/120
		240VAC	47.6K	16	16		15.7 x 29 x 12.7	Z2311-ND	10.58	9.52	8.46	G5RL-1-E-AC230/240
19	SPST-NO	5	125	5	5	Flux Sealed	15 x 20.5 x 7	Z2774-ND	1.13	1.02	.90	G5T-1A-DC5
		12	720	5	5		15 x 20.5 x 7	Z2775-ND	1.13	1.02	.90	G5T-1A-DC12
		24	2,880	5	5		15 x 20.5 x 7	Z2776-ND	1.20	1.08	.96	G5T-1A-DC24
20	SPST-NO	12	160	20	20	—	23.5 x 30.5 x 16	Z954-ND	6.18	5.56	4.94	G4A-1A-P-E-DC12
		24	640	20	20		23.5 x 30.5 x 16	Z955-ND	6.18	5.56	4.94	G4A-1A-P-E-DC24
21	SPST-NO	12	180	15	15	Fully Sealed	30.5 x 30.5 x 19.5	Z961-ND	5.43	4.89	4.34	G4W1114PUSTV8HPDC12
		24	720	15	15		30.5 x 30.5 x 19.5	Z962-ND	5.43	4.89	4.34	G4W1114PUSTV8HPDC24
22	DPST-NO	12	180	15	15	Fully Sealed	30.5 x 30.5 x 19.5	Z963-ND	6.45	5.81	5.16	G4W-2214PUSHP-DC12
		24	720	15	15	Fully Sealed	30.5 x 30.5 x 19.5	Z964-ND	6.45	5.81	5.16	G4W-2214PUSHP-DC24
		24	720	15	15	TV5 Rated	30.5 x 30.5 x 19.5	Z2245-ND	6.23	5.61	4.99	G4W-2212P-US-TV5-HP-DC24
PCB Power “Sugar Cube” Relays												
23	SPST-NO	5	69.4	10	10	Fully Sealed	15.8 x 19.8 x 15.6	Z2569-ND	1.06	.96	.85	G5LA-1A4-DC5
		9	225	10	10		15.8 x 19.8 x 15.6	Z2570-ND	1.06	.96	.85	G5LA-1A4-DC9
		12	400	10	10		15.8 x 19.8 x 15.6	Z2571-ND	1.06	.96	.85	G5LA-1A4-DC12
		24	1,600	10	10		15.8 x 19.8 x 15.6	Z2572-ND	1.10	.99	.88	G5LA-1A4-DC24
		48	4,800	10	10		15.8 x 19.8 x 15.6	Z2573-ND	1.24	1.12	.99	G5LA-1A4-DC48
	SPDT	5	69.4	10	10	Fully Sealed	15.8 x 19.8 x 15.6	Z2560-ND	1.09	.98	.87	G5LA-14-DC5
		9	225	10	10		15.8 x 19.8 x 15.6	Z2568-ND	1.09	.98	.87	G5LA-14-DC9
		12	400	10	10		15.8 x 19.8 x 15.6	Z2561-ND	1.09	.98	.87	G5LA-14-DC12
		24	1,600	10	10		15.8 x 19.8 x 15.6	Z2562-ND	1.13	1.02	.91	G5LA-14-DC24
		48	4,800	10	10		15.8 x 19.8 x 15.6	Z2563-ND	1.27	1.15	1.02	G5LA-14-DC48
	SPDT	5	69.4	10	10	Fully Sealed; Class F Ins.	15.8 x 19.8 x 15.6	Z2574-ND	1.16	1.05	.93	G5LA-14-CF-DC5
		9	225	10	10		15.8 x 19.8 x 15.6	Z2575-ND	1.16	1.05	.93	G5LA-14-CF-DC9
		12	400	10	10		15.8 x 19.8 x 15.6	Z2576-ND	1.16	1.05	.93	G5LA-14-CF-DC12
		24	1,600	10	10		15.8 x 19.8 x 15.6	Z2577-ND	1.20	1.08	.96	G5LA-14-CF-DC24
		48	4,800	10	10		15.8 x 19.8 x 15.6	Z2578-ND	1.34	1.21	1.08	G5LA-14-CF-DC48
	SPST-NO	5	72	8	10	Low Profile G5LE; Sealed	15.2 x 19.6 x 15.6	Z2340-ND	1.98	1.79	1.59	G5LB-1A4-DC5
		9	40.8	8	10		15.2 x 19.6 x 15.6	Z2341-ND	1.98	1.79	1.59	G5LB-1A4-DC9
		12	360	8	10		15.2 x 19.6 x 15.6	Z2342-ND	1.98	1.79	1.59	G5LB-1A4-DC12
		24	15.2	8	10		15.2 x 19.6 x 15.6	Z2343-ND	1.93	1.74	1.55	G5LB-1A4-DC24
		48	7.6	8	10		15.2 x 19.6 x 15.6	Z2344-ND	3.09	2.79	2.48	G5LB-1A4-DC48
	SPDT	5	72	8	10	Low Profile G5LE;	15.2 x 19.6 x 15.6	Z2335-ND	1.93	1.74	1.55	G5LB-14-DC5
		12	360	8	10		15.2 x 19.6 x 15.6	Z2337-ND	1.93	1.74	1.55	G5LB-14-DC12
		48	7.6	8	10		15.2 x 19.6 x 15.6	Z2339-ND	2.85	2.57	2.29	G5LB-14-DC48
	SPDT	5	72	8	10	Low Profile G5LE; Flux Sealed	15.2 x 19.6 x 15.6	Z2330-ND	1.93	1.74	1.55	G5LB-1-DC5
		9	40.8	8	10		15.2 x 19.6 x 15.6	Z2331-ND	1.97	1.78	1.58	G5LB-1-DC9
		12	360	8	10		15.2 x 19.6 x 15.6	Z2332-ND	1.93	1.74	1.55	G5LB-1-DC12
		48	8	8	10		15.2 x 19.6 x 15.6	Z2334-ND	3.09	2.78	2.47	G5LB-1-DC48
	SPST-NO	12	360	8	10	Fully Sealed	19.0 x 22.5 x 16.5	Z2352-ND	1.97	1.78	1.58	G5LE-1A4-DC12
		24	1,440	8	10		19.0 x 22.5 x 16.5	Z2254-ND	4.10	3.69	3.28	G5LE-1A4-DC24
	SPST-NO	5	63	10	16	Fully Sealed; High Current	19.0 x 22.5 x 16.5	Z2619-ND	2.88	2.59	2.30	G5LE-1A-E-DC5
		12	360	10	16		19.0 x 22.5 x 16.5	Z2620-ND	2.88	2.59	2.30	G5LE-1A-E-DC12
		24	1,440	10	16		19.0 x 22.5 x 16.5	Z2621-ND	2.88	2.59	2.30	G5LE-1A-E-DC24
	SPDT	5	63	8	10	Fully Sealed	19.0 x 22.5 x 16.5	Z1011-ND	1.88	1.69	1.50	G5LE-14-DC5
		12	360	8	10		19.0 x 22.5 x 16.5	Z1012-ND	1.88	1.69	1.50	G5LE-14-DC12
		24	1,440	8	10		19.0 x 22.5 x 16.5	Z1013-ND	1.88	1.69	1.50	G5LE-14-DC24
		48	5,760	8	10		19.0 x 22.5 x 16.5	Z2592-ND	2.84	2.56	2.27	G5LE-14-DC48
	SPDT	5	63	8	10	Flux Sealed	19.0 x 22.5 x 16.5	Z1014-ND	1.70	1.53	1.36	G5LE-1-DC5
		12	360	8	10		19.0 x 22.5 x 16.5	Z1015-ND	1.70	1.53	1.36	G5LE-1-DC12
		24	1,440	8	10		19.0 x 22.5 x 16.5	Z1016-ND	1.70	1.53	1.36	G5LE-1-DC24
	SPDT	5	63	10	16	Fully Sealed; High Current	19.0 x 22.5 x 16.5	Z2616-ND	2.88	2.59	2.30	G5LE-1-E-DC5
		12	360	10	16		19.0 x 22.5 x 16.5	Z2617-ND	2.88	2.59	2.30	G5LE-1-E-DC12
		24	1,440	10	16		19.0 x 22.5 x 16.5	Z2618-ND	2.88	2.59	2.30	G5LE-1-E-DC24
	SPDT	9	200	10	10	Fully Sealed; .8mm contact Gap	19.0 x 22.5 x 16.5	Z2622-ND	2.64	2.38	2.11	G5LE-1-G-DC9
		12	360	10	10		19.0 x 22.5 x 16.5	Z2623-ND	2.64	2.38	2.11	G5LE-1-G-DC12
		24	1,440	10	10		19.0 x 22.5 x 16.5	Z2624-ND	2.64	2.38	2.11	G5LE-1-G-DC24
24	SPST-NO	5	125	3	3	Flux Sealed	15.3 x 20.5 x 7.2	Z2771-ND	2.95	2.66	2.36	G5NB-1A-E DC5
		12	720	3	3		15.3 x 20.5 x 7.2	Z2772-ND	2.95	2.66	2.36	G5NB-1A-E DC12
		24	2,880	3	3		15.3 x 20.5 x 7.2	Z2773-ND	3.25	2.93	2.60	G5NB-1A-E DC24
25	SPST-NO	5	44	5	8	Fully Sealed	15 x 28.5 x 10	Z2345-ND	2.53	2.28	2.02	G6RN-1A-DC5
		12	18.3	5	8		15 x 28.5 x 10	Z2346-ND	2.53	2.28	2.02	G6RN-1A-DC12
		24	9.2	5	8		15 x 28.5 x 10	Z2347-ND	2.53	2.28	2.02	G6RN-1A-DC24
	SPDT	5	114	5	8	Fully Sealed	15 x 28.5 x 10	Z987-ND	2.35	2.12	1.88	G6RN-1-DC5
		12	665	5	8		15 x 28.5 x 10	Z988-ND	2.35	2.12	1.88	G6RN-1-DC12
		24	2,620	5	8		15 x 28.5 x 10	Z990-ND	2.35	2.12	1.88	G6RN-1-DC24
26	SPDT	3	40.9	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2758-ND	2.75	2.48	2.20	G6RL-1-DC3
		5	113.6	5	8		12.3 x 28.5 x 10	Z2759-ND	2.75	2.48	2.20	G6RL-1-DC5
		12	654.5	5	8		12.3 x 28.5 x 10	Z2760-ND	2.75	2.48	2.20	G6RL-1-DC12
		24	2,618	5	8		12.3 x 28.5 x 10	Z2761-ND	2.75	2.48	2.20	G6RL-1-DC24
	SPST-NO	3	40.9	5	8	Flux Sealed	12.3 x 28.5 x 10	Z2762-ND	2.68	2.41	2.14	G6RL-1A-DC3
		5	113.6	5	8		12.3 x 28.5 x 10	Z2763-ND	2.68	2.41	2.14	G6RL-1A-DC5
		12	654.5	5	8		12.3 x 28.5 x 10	Z2764-ND	2.68	2.41	2.14	G6RL-1A-DC12
		24	2,618	5	8		12.3 x 28.5 x 10	Z2765-ND	2.68	2.41	2.14	G6RL-1A-DC24

Fig. 24 - G5NB

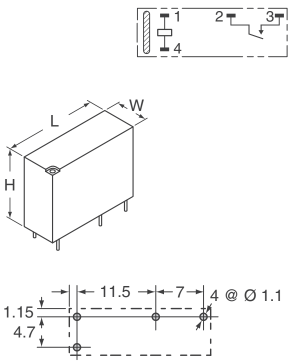

Fig. 25 - G6RN

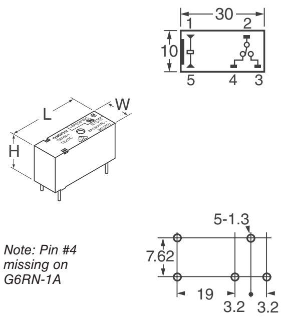

Note: Pin #4 missing on G6RN-1A

G6RN-1 Shown

Fig. 26 - G6RL

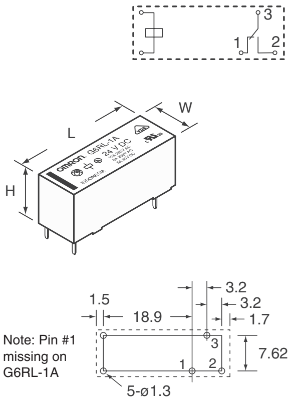

Note: Pin #1 missing on G6RL-1A

General Purpose and Automotive Relays

All Relays UL/CSA approved

Fig.	Contact Form	Coil Voltage	Coil Res. (Ω)	Contact Ratings Resistive (A)	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
G8P Relays – PC Mount and QC Style											
1	SPST-NO	5DC	27	30A@250VAC 20A@28VDC	Open Case PCB	Z1002-ND	3.35	3.02	2.68	2.42	G8P-1AP-DC5
	SPST-NO	12DC	155		Open Case PCB	Z1003-ND	2.90	2.61	2.32	2.09	G8P-1AP-DC12
	SPST-NO	24DC	660		Open Case PCB	Z1004-ND	2.90	2.61	2.32	2.09	G8P-1AP-DC24
2	SPST-NO	5DC	27	30A@250VAC	Sealed PCB	Z1006-ND	3.43	3.17	2.97	2.63	G8P-1A4P-DC5
	SPST-NO	12DC	155	20A@28VDC	Sealed PCB	Z1007-ND	3.14	2.90	2.72	2.40	G8P-1A4P-DC12
	SPST-NO	24DC	660	1hp@125VAC & 2hp@250VAC	Sealed PCB	Z1008-ND	3.14	2.90	2.72	2.40	G8P-1A4P-DC24
	SPDT	12DC	155	10A@250VAC	Sealed PCB	Z1009-ND	3.30	2.97	2.64	2.38	G8P-1C4P-DC12
	SPDT	24DC	660	10A@28VDC	Sealed PCB	Z1010-ND	3.30	2.97	2.64	2.38	G8P-1C4P-DC24
3	SPST-NO	12VDC	155	20A@28VDC	PCB and QC Terminal	Z208-ND	3.70	3.33	2.96	2.67	G8P-1A4TP-DC12
	SPST-NO	24VDC	660	1hp@125VAC & 2hp@250VAC	PCB and QC Terminal	Z209-ND	3.70	3.33	2.96	2.67	G8P-1A4TP-DC24
	SPDT	12VDC	155	10A@250VAC	PCB and QC Terminal	Z210-ND	3.80	3.42	3.04	2.74	G8P-1C4TP-DC12
	SPDT	24VDC	660	10A@28VDC	PCB and QC Terminal	Z214-ND	3.80	3.42	3.04	2.74	G8P-1C4TP-DC24
4	SPST-NO	12VDC	155	20A@28VDC	Chassis Mount	Z215-ND	4.00	3.60	3.20	2.88	G8P-1A2T-F-DC12
	SPST-NO	24VDC	660	1hp@125VAC & 2hp@250VAC	Chassis Mount	Z216-ND	4.00	3.60	3.20	2.88	G8P-1A2T-F-DC24
	SPDT	12VDC	155	10A@250VAC	Chassis Mount	Z217-ND	4.10	3.69	3.28	2.96	G8P-1C2T-F-DC12
	SPDT	24VDC	660	10A@28VDC	Chassis Mount	Z218-ND	4.10	3.69	3.28	2.96	G8P-1C2T-F-DC24
G8PE Automotive PCB Relays											
—	SPDT	12VDC	135	40	High Current PCB	Z2779-ND	7.35	6.62	5.88	5.30	G8PE-1C4 DC12
G8JR ISO Automotive Relays											
5	SPST	12VDC	71	50 NO	QC Terminal	Z2716-ND	5.45	4.91	4.36	3.93	G8JR-1A7T-R-DC12
G8JN ISO Automotive Relays											
5	SPDT	12DC	78	35NO/20NC	QC Terminal	Z981-ND	4.90	4.41	3.92	3.53	G8JN-1C7T-DC12
	SPDT	12DC	78	35NO/20NC	With Molded Bracket	Z982-ND	5.10	4.59	4.08	3.68	G8JN-1C7T-MF-DC12
	SPDT	12VDC	74	35NO/20NC	Weatherproof Shroud	Z2781-ND	5.98	5.38	4.78	4.31	G8JN-1C6T-R-DC12
	SPDT	12VDC	74	35NO/20NC	With Molded Bracket	Z2782-ND	5.83	5.25	4.66	4.20	G8JN-1C7T-MF-R-DC12
	SPDT	12DC	78	35NO/20NC	Weatherproof Shroud	Z983-ND	5.23	4.71	4.18	3.77	G8JN-1C6T-DC12
	SPDT	12DC	78	35NO/20NC	Weatherproof w/Bracket	Z984-ND	6.45	5.81	5.16	4.65	G8JN-1C6T-F-DC12
	SPDT	12DC	78	35NO/20NC	QC Terminal w/Resistor	Z2248-ND	5.65	5.09	4.52	4.07	G8JN-1C7T-R-DC12
G8W Mini 280 Automotive Relays											
6	SPDT	12DC	91	35NO/20NC	Standard with Resistor	Z2260-ND	6.11	5.50	4.89	4.40	G8W-1C7T-R-DC12
	SPDT	12VDC	91	35NO/20NC	Standard with Resistor	Z2783-ND	5.88	5.29	4.70	4.23	G8W-1C6T-R-DC12
	SPST-NO	12VDC	91	35NO/20NC	Weatherproof w/Resistor	Z2784-ND	5.30	4.77	4.24	3.82	G8W-1A7T-R-DC12
	SPST-NO	12DC	91	35NO/20NC	Weatherproof w/Resistor	Z2053-ND	6.00	5.40	4.80	4.32	G8W-1A6T-F-R-DC12
	SPDT	12DC	91	35NO/20NC	Weatherproof w/Bracket	Z2054-ND	6.15	5.54	4.92	4.43	G8W-1C6T-F-R-DC12
G8V Micro280 Automotive Relays											
7	SPST	12DC	104	20NO/10NC	Plug-In	Z2051-ND	5.03	4.53	4.02	3.62	G8V-1A7T-R-DC12
	SPST	12DC	104	35NO/20NC	Plug-In, High Current	Z2648-ND	4.93	4.44	3.95	3.55	G8V-RH-1A7T-R-DC12
	SPDT	12DC	104	20NO/10NC	Plug-In	Z2052-ND	6.75	6.08	5.40	4.86	G8V-1C7T-R-DC12
	SPDT	12DC	104	35NO/20NC	Plug-In, High Current	Z2649-ND	4.93	4.44	3.95	3.55	G8V-RH-1C7T-R-DC12
G8H Micro ISO Automotive Relays											
8	SPDT	12DC	100	20NO/10NC	Plug-In	Z2001-ND	7.30	6.57	5.84	5.26	G8H-1C4T-R-DC12
	SPDT	12DC	100	20NO/10NC	Plug-In	Z2247-ND	4.38	3.94	3.50	3.15	G8HN-1C2T-R-DC12
G8N/G8QN Relays											
9	SPDT	12DC	225	30	PCB	Z2696-ND	2.63	2.37	2.10	1.89	G8QN-1C4-DC12
	SPDT	12DC	225	30	PCB	Z2697-ND	2.63	2.37	2.10	1.89	G8N-1-DC12-SK
G8ND Twin Automotive Relays											
10	2x SPDT	12VDC	225	30	Twin Relay	Z2777-ND	18.63	16.77	14.90	13.41	G8ND-2 DC12 SK
MJN Relays – Plug-In Style											
11	DPDT	12VDC	120	10	Plug-In	Z237-ND	11.70	10.53	9.36	8.43	MJN2C-DC12
	DPDT	24VDC	470	10	Plug-In	Z236-ND	11.70	10.53	9.36	8.43	MJN2C-DC24
	DPDT	24VAC	75	10	Plug-In	Z235-ND	12.45	11.21	9.96	8.97	MJN2C-AC24
	3PDT	12VDC	120	10	Plug-In	Z233-ND	12.10	10.89	9.68	8.72	MJN3C-DC12
	3PDT	24VDC	470	10	Plug-In	Z232-ND	12.10	10.89	9.68	8.72	MJN3C-DC24
	3PDT	24VAC	72	10	Plug-In	Z231-ND	12.95	11.66	10.36	9.33	MJN3C-AC24
MJN Relays with Mounting Flange											
11	DPDT	12VDC	120	10	With Mounting Flange	Z244-ND	11.38	10.24	9.10	8.19	MJN2CF-DC12
	DPDT	24VDC	470	10	With Mounting Flange	Z245-ND	11.25	10.13	9.00	8.10	MJN2CF-DC24
	3PDT	24VDC	470	10	With Mounting Flange	Z240-ND	13.03	11.73	10.42	9.38	MJN3CF-DC24
	3PDT	120VAC	1700	10	With Mounting Flange	Z242-ND	14.03	12.63	11.22	10.10	MJN3CF-AC120
	DPDT	12VDC	120	20	With Mounting Flange	Z249-ND	15.00	13.50	12.00	10.80	MJN2CE-DC12
	DPDT	24VDC	470	20	With Mounting Flange	Z250-ND	15.00	13.50	12.00	10.80	MJN2CE-DC24
	DPDT	24VAC	75	20	With Mounting Flange	Z248-ND	15.38	13.84	12.30	11.07	MJN2CE-AC24
	DPDT	120VAC	2250	20	With Mounting Flange	Z247-ND	15.80	14.22	12.64	11.38	MJN2CE-AC120
MGN Relays – Heavy Duty Power Type											
12	SPDT	12VDC	72	30	With Mounting Flange	Z257-ND	23.50	21.15	18.80	16.92	MGN1C-DC12
	SPDT	24VAC	11.5	30	With Mounting Flange	Z255-ND	25.15	22.64	20.12	18.11	MGN1C-AC24
	SPDT	120VAC	295	30	With Mounting Flange	Z256-ND	23.38	21.04	18.70	16.83	MGN1C-AC120
	SPST	12VDC	72	30	With Mounting Flange	Z261-ND	20.15	18.14	16.12	14.51	MGN1X-DC12
	SPST	24VDC	290	30	With Mounting Flange	Z262-ND	43.55	39.20	34.84	31.36	MGN1X-DC24
	SPST	24VAC	11.5	30	With Mounting Flange	Z260-ND	18.93	17.04	15.14	13.63	MGN1X-AC24
	DPST	12VDC	72	30	With Mounting Flange	Z265-ND	24.05	21.65	19.24	17.32	MGN2A-DC12
	DPST	24VAC	11.5	30	With Mounting Flange	Z264-ND	25.75	23.18	20.60	18.54	MGN2A-AC24
	DPDT	12VDC	72	30	With Mounting Flange	Z269-ND	34.25	30.83	27.40	24.66	MGN2C-DC12
	DPDT	24VDC	290	30	With Mounting Flange	Z270-ND	33.15	29.84	26.52	23.87	MGN2C-DC24
	DPDT	24VAC	11.5	30	With Mounting Flange	Z268-ND	34.65	31.19	27.72	24.95	MGN2C-AC24
	DPDT	120VAC	295	30	With Mounting Flange	Z267-ND	29.70	26.73	23.76	21.39	MGN2C-AC120

Relay Sockets and Accessories

Fig.	Use with Series	Description	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
13	MJN (10A)	Din Rail Socket with Screw Terminals	Z251-ND	8.03	7.23	6.42	5.78	PTF11PC
14	MJN (10A)	Chassis Mount with QC Terminals	Z252-ND	1.70	1.53	1.36	1.23	PTF11QDC
13	MJN (10A)	Chassis Mount with Screw Terminals	Z253-ND	7.80	7.02	6.24	5.62	PTF21PC
14	MJN (10A)	Chassis Mount with PCB Terminals	Z254-ND	1.58	1.42	1.26	1.14	PTFPCB
—	G2R-S	Nameplate for use with PTRF-05	Z2000-ND	4.98	4.48	3.98	3.59	R99-11
—	G2R-S	Screwless Socket (Wire Trap) SP G2R-S	Z2058-ND	4.20	3.78	3.36	3.03	PTRF-05-S
—	G2R-S	Screwless Socket (Wire Trap) DP G2R-S	Z2059-ND	6.60	5.94	5.28	4.76	PTRF-08-S

Fig. 1 — G8P Open Frame

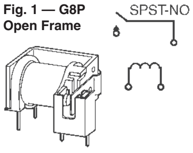

Fig. 2 — G8P Sealed Case

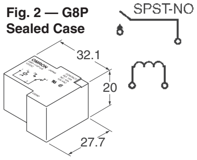

Fig. 3 — G8P PCB & QC

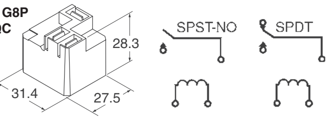

Fig. 4 — G8P Chassis Mount

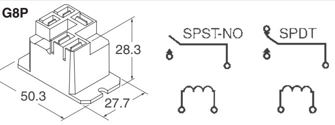

Fig. 5 — G8JN/JR

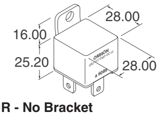

G8JR - No Bracket

Fig. 6 — G8W

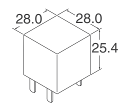

Fig. 7 — G8V

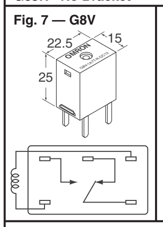

Fig. 8 — G8H/G8HN - Mini-ISO

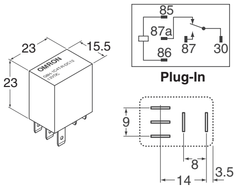

Fig. 9 — G8N/G8QN

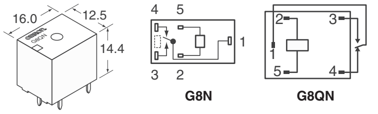

Fig. 10 — G8ND

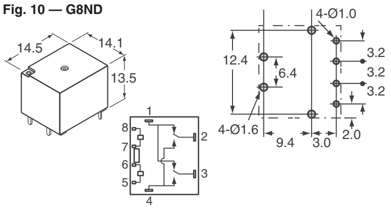

Fig. 11 — MJN

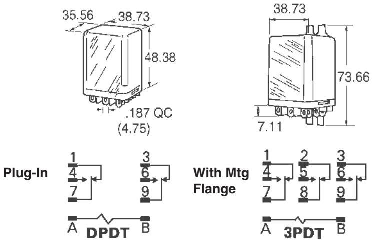

Fig. 12 — MGN

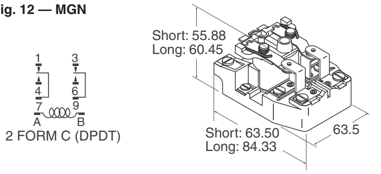

Fig. 13

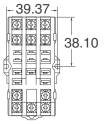

Fig. 14

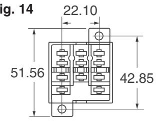

OMRON® Power Relays

Fig.	Contact Form	Coil Volt.	Coil Res. (Ω)	Contact Ratings Resistive (A)	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
LY Power Relays — Plug-In Terminals											
1	SPDT	12VDC	160	15A @ 110VAC; 15A @ 24VDC	Plug-In	Z785-ND◆	6.45	5.81	5.16	4.65	LY1-DC12
		24VDC	650		Plug-In	Z784-ND◆	6.45	5.81	5.16	4.65	LY1-DC24
		24VAC	180		Plug-In	Z783-ND◆	6.75	6.08	5.40	4.86	LY1-AC24
		120VAC	4430		Plug-In	Z781-ND◆	6.75	6.08	5.40	4.86	LY1-AC110/120
	DPDT	12VDC	160	10A @ 110VAC; 10A @ 24VDC	Plug-In	Z790-ND◆	7.58	6.82	6.06	5.46	LY2-DC12
		12VDC	160		Plug-In with LED	Z2603-ND◆	10.98	9.89	8.79	7.91	LY2N-DC12
		24VDC	650		Plug-In with LED	Z2604-ND◆	10.98	9.89	8.79	7.91	LY2N-DC24
		24VDC	650		Plug-In with Diode	Z2263-ND◆	14.34	12.91	11.48	10.33	LY2-D-DC24
		24VDC	650		Plug-In	Z2266-ND◆	21.20	19.09	16.97	15.27	LY2N-D2-DC24
		24VDC	650		Plug-In	Z789-ND◆	7.58	6.82	6.06	5.46	LY2-DC24
		24VAC	180		Plug-In	Z788-ND◆	7.58	6.82	6.06	5.46	LY2-AC24
		24VAC	180		Plug-In with LED	Z2602-ND◆	10.98	9.89	8.79	7.91	LY2N-AC24
		48VDC	2600		Plug-In	Z2262-ND◆	9.61	8.65	7.69	6.92	LY2-DC48
		120VAC	4430		Plug-In	Z786-ND◆	7.58	6.82	6.06	5.46	LY2-AC110/120
		120VAC	4430		Plug-In with LED	Z2610-ND◆	10.98	9.89	8.79	7.91	LY2N-AC110/120
		220VAC	12.9K		Plug-In with LED	Z2265-ND◆	13.48	12.14	10.79	9.71	LY2N-AC220/240
		24VDC	650	10A @ 110VAC; 10A @ 24VDC	With LED and Test Button	Z1677-ND◆	10.58	9.53	8.47	7.62	LY2I4N-DC24
		120VAC	4430		With LED and Test Button	Z1678-ND◆	10.58	9.53	8.47	7.62	LY2I4N-AC110/120
	SPDT	12VDC	160	15A @ 110VAC 15A @ 24VDC;	With Mounting Ears	Z193-ND◆	6.85	6.17	5.48	4.94	LY1F-DC12
		24VDC	650		With Mounting Ears	Z194-ND◆	6.85	6.17	5.48	4.94	LY1F-DC24
		24VAC	180		With Mounting Ears	Z195-ND◆	6.85	6.17	5.48	4.94	LY1F-AC24
		120VAC	4430		With Mounting Ears	Z782-ND◆	6.85	6.17	5.48	4.94	LY1F-AC110/120
		220VAC	12.9K		With Mounting Ears	Z2261-ND◆	9.08	8.18	7.27	6.54	LY1F-AC220/240
	DPDT	12VDC	160	10A @ 110VAC; 10A @ 24VDC	With Mounting Ears	Z190-ND◆	7.73	6.96	6.18	5.57	LY2F-DC12
		24VDC	650		With Mounting Ears	Z191-ND◆	7.73	6.96	6.18	5.57	LY2F-DC24
		24VAC	180		With Mounting Ears	Z192-ND◆	7.73	6.96	6.18	5.57	LY2F-AC24
		120VAC	4430		With Mounting Ears	Z787-ND◆	7.73	6.96	6.18	5.57	LY2F-AC110/120
		220VAC	12.9K		With Mounting Ears	Z2264-ND◆	10.47	9.43	8.38	7.54	LY2F-AC220/240
	3PDT	24VDC	410	10A @ 110VAC; 10A @ 24VDC	Plug-In	Z1679-ND◆	10.64	9.58	8.52	7.67	LY3-DC24
		120VAC	2300		Plug-In	Z1680-ND◆	10.64	9.58	8.52	7.67	LY3-AC120
		120VAC	2450		Plug-In with LED	Z2268-ND	17.10	15.40	13.69	12.32	LY3N-AC110/120
		24VAC	180		With Mounting Ears	Z2267-ND	13.16	11.85	10.53	9.48	LY3F-AC24
	4PDT	12VDC	650	10A @ 110VAC; 10A @ 24VDC	Plug-In	Z1682-ND◆	12.40	11.16	9.92	8.93	LY4-DC12
		24VDC	100		Plug-In	Z1681-ND◆	12.40	11.16	9.92	8.93	LY4-DC24
		24VDC	350		Plug-In with Diode	Z2272-ND◆	19.34	17.41	15.47	13.93	LY4-D-DC24
		24VDC	350		Plug-In with LED	Z2275-ND◆	17.94	16.15	14.35	12.92	LY4N-DC24
		24VAC	78		Plug-In with LED	Z2274-ND◆	17.94	16.15	14.35	12.92	LY4N-AC24
		24VAC	78		Plug-In	Z2270-ND◆	12.40	11.16	9.92	8.93	LY4-AC24
		120VAC	1800		Plug-In	Z1683-ND◆	12.40	11.16	9.92	8.93	LY4-AC120
		120VAC	1800		Plug-In with LED	Z2273-ND◆	13.18	11.86	10.55	9.49	LY4N-AC110/120
		220VAC	12.9K		Plug-In	Z2271-ND◆	12.40	11.16	9.92	8.93	LY4-AC240
LY Power Relays — PC Mount — RoHS Compliant											
1	SPDT	12VDC	160	15A @ 110VAC; 15A @ 24VDC	PCB Mount	Z974-ND	6.75	6.08	5.40	4.86	LY1-0-DC12
		24VDC	650		PCB Mount	Z973-ND	6.75	6.08	5.40	4.86	LY1-0-DC24
		24VAC	180		PCB Mount	Z972-ND	6.75	6.08	5.40	4.86	LY1-0-AC24
		120VAC	4430		PCB Mount	Z971-ND	6.75	6.08	5.40	4.86	LY1-0-AC110/120
	DPDT	12VDC	160	10A @ 110VAC 10A @ 24VDC;	PCB Mount	Z978-ND	7.58	6.82	6.06	5.46	LY2-0-DC12
		24VDC	650		PCB Mount	Z977-ND	7.58	6.82	6.06	5.46	LY2-0-DC24
		100VDC	6900		PCB Mount	Z979-ND	7.90	7.11	6.32	5.69	LY2-0-DC100/110
		24VAC	180		PCB Mount	Z976-ND	7.58	6.82	6.06	5.46	LY2-0-AC24
		120VAC	4430		PCB Mount	Z975-ND	7.58	6.82	6.06	5.46	LY2-0-AC110/120
	4PDT	24VDC	100	10A	PCB Mount	Z2269-ND	15.34	13.81	12.27	11.05	LY4-0-DC24
Power Relays — Plug-In Terminals — RoHS Compliant											
2	DPDT	12VDC	95	10A @ 220VAC; 10A @ 28VDC	Plug-In	Z800-ND	10.68	9.61	8.54	7.69	MK2P-S-DC12
		24VDC	430		Plug-In	Z799-ND	10.68	9.61	8.54	7.69	MK2P-S-DC24
		24VAC	88		Plug-In	Z798-ND	10.60	9.54	8.48	7.64	MK2P-S-AC24
		120VAC	2300		Plug-In	Z797-ND	11.60	10.44	9.28	8.36	MK2P-S-AC120
	3PDT	12VDC	95	10A @ 220VAC; 10A @ 28VDC	Plug-In	Z804-ND	12.20	10.98	9.76	8.79	MK3P5-S-DC12
		24VDC	430		Plug-In	Z803-ND	12.20	10.98	9.76	8.79	MK3P5-S-DC24
		24VAC	88		Plug-In	Z802-ND	12.20	10.98	9.76	8.79	MK3P5-S-AC24
		120VAC	2300		Plug-In	Z801-ND	13.05	11.75	10.44	9.40	MK3P5-S-AC120
3	DPDT	12VDC	160	5A @ 220VAC; 5A @ 24VDC	Plug-In	Z181-ND	5.38	4.84	4.30	3.87	MY2-DC12(S)
		24VDC	636		Plug-In	Z182-ND	5.38	4.84	4.30	3.87	MY2-DC24(S)
		48VDC	2560		Plug-In	Z183-ND	5.60	5.04	4.48	4.04	MY2-DC48(S)
		24VAC	180		Plug-In	Z184-ND	5.38	4.84	4.30	3.87	MY2-AC24(S)
		120VAC	4430		Plug-In	Z185-ND	5.60	5.04	4.48	4.04	MY2-AC110/120(S)
		24VDC	636		PCB Mount	Z2633-ND	7.05	6.35	5.64	5.08	MY2-02-DC24
	3PDT	120VAC	4430	3A @ 110VAC	Plug-In with LED	Z2249-ND	10.30	9.28	8.25	7.42	MY3N-AC110/120
	4PDT	12VDC	160	3A @ 220VAC 3A @ 24VDC;	Plug-In	Z186-ND	6.48	5.83	5.18	4.67	MY4-DC12(S)
		24VDC	636		Plug-In	Z187-ND	6.48	5.83	5.18	4.67	MY4-DC24(S)
		24VDC	636		Plug-In with LED	Z2188-ND	14.33	12.90	11.46	10.32	MY4N-DC24(S)
		24VAC	180		Plug-In	Z188-ND	6.48	5.83	5.18	4.67	MY4-AC24(S)
		120VAC	4430		Plug-In	Z189-ND	6.63	5.97	5.30	4.77	MY4-AC110/120(S)
		110VDC	11.1K	3A @ 220VAC 3A @ 24VDC;	Plug-In	Z2276-ND	7.60	6.84	6.08	5.48	MY4-DC100/110(S)
		12VDC	160		Plug-In with LED	Z2279-ND	7.64	6.88	6.12	5.51	MY4N-DC12(S)
		24VDC	636		With LED & Diode	Z2278-ND	14.33	12.90	11.46	10.32	MY4N-D2-DC24(S)
		12VDC	160		Bifurcated Contacts	Z2281-ND	14.33	12.90	11.46	10.32	MY4ZN-DC12(S)
		24VDC	636		Bifurcated Contacts	Z2282-ND	18.62	16.77	14.90	13.41	MY4ZN-DC24(S)
		24VAC	180		Bifurcated Contacts	Z2280-ND	12.27	11.05	9.82	8.84	MY4Z-AC24(S)
		240VAC	18.79K		Plug-In with LED	Z2277-ND	6.63	5.97	5.30	4.77	MY4N-AC220/240(S)
		24VDC	636		PCB Mount	Z2634-ND	7.40	6.66	5.92	5.33	MY4-02-DC24
4	SPST	24VDC	303	30A @ 220VAC	.250" QC Type	Z817-ND	10.53	9.48	8.42	7.58	G7L-1A-TUB-J-CB-DC24
		24VAC	270		.250" QC Type	Z815-ND	11.30	10.17	9.04	8.14	G7L-1A-TUB-J-CB-AC24
		120VAC	5260		.250" QC Type	Z814-ND	11.30	10.17	9.04	8.14	G7L-1A-TUB-J-CB-AC100/120
		220VAC	21000		.250" QC Type	Z816-ND	11.93	10.74	9.54	8.59	G7L-1A-TUB-J-CB-AC200/240

§ Use 4PDT MY or MY2 Sockets ◆ *RoHS Compliant*

(Continued)

Fig. 1

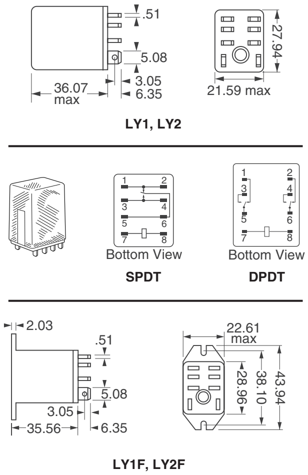

Fig. 2

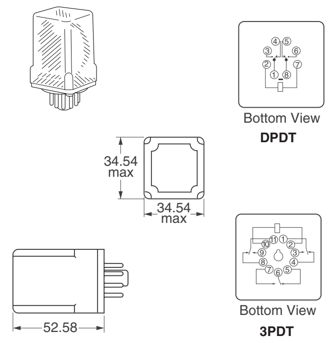

Fig. 3

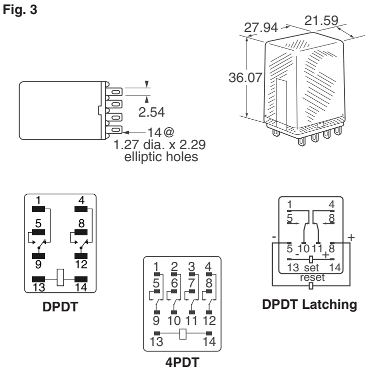

Fig. 4

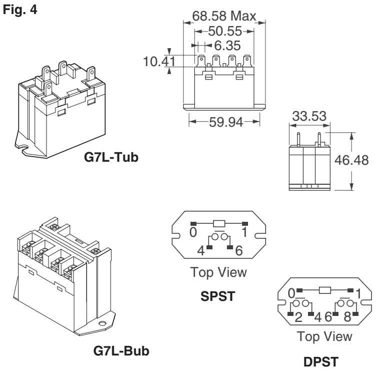

Fig.	Contact Form	Coil Volt.	Coil Res. (Ω)	Contact Ratings Resistive (A)	Additional Features	Digi-Key Part No.	Price Each				Omron Part No.
							1	25	50	100	
4	SPST	12VDC	75	30A @ 220VAC	Screw Terminal Type	Z1051-ND	15.75	14.18	12.60	11.34	G7L-1A-BUBJ-CB-DC12
		24VDC	303		Screw Terminal Type	Z1052-ND	15.75	14.18	12.60	11.34	G7L-1A-BUBJ-CB-DC24
		24VAC	303		Screw Terminal Type	Z1053-ND	15.15	13.64	12.12	10.91	G7L-1A-BUBJ-CB-AC24
		120VAC	5260		Screw Terminal Type	Z1054-ND	16.68	15.01	13.34	12.01	G7L-1A-BUBJ-CB-AC100/120
	DPST	24VDC	303	30A @ 220VAC	Screw Terminal Type	Z2258-ND	16.58	14.93	13.27	11.94	G7L2ABUBJCBDC24
		12VDC	75		PCB Terminal Type	Z2259-ND	16.07	14.47	12.86	11.57	G7L-2A-P-CB-DC12
		24VDC	303		PCB Terminal Type	Z2582-ND	16.07	14.47	12.86	11.57	G7L-2A-PCB-DC24
	DPST	24VDC	303	30A @ 220VAC	.250” QC Type	Z821-ND	10.95	9.86	8.76	7.89	G7L-2A-TUB-J-CB-DC24
	DPST	24VAC	270	25A @ 220VAC	.250” QC Type	Z820-ND	11.70	10.53	9.36	8.43	G7L-2A-TUB-J-CB-AC24
		120VAC	5260		.250” QC Type	Z818-ND	11.70	10.53	9.36	8.43	G7L-2A-TUB-J-CB-AC100/120
		220VAC	21000		.250” QC Type	Z819-ND	12.28	11.05	9.82	8.84	G7L-2A-TUB-J-CB-AC200/240
5	DPST-NO/NC	24VDC	288	25A @ 220VAC	Screw Terminal Type	Z1032-ND	40.83	36.75	32.66	29.40	G7J-2A2B-B-W1DC24
		120VAC	—		Screw Terminal Type	Z1030-ND	44.85	40.37	35.88	32.30	G7J-2A2B-B-W1AC100/120
		240VAC	—		Screw Terminal Type	Z1031-ND	46.28	41.65	37.02	33.32	G7J-2A2B-B-W1AC200/240
	3PST/SPST	24VDC	288	25A @ 220VAC	Screw Terminal Type	Z1035-ND	40.83	36.75	32.66	29.40	G7J-3A1B-B-W1DC24
		120VAC	—		Screw Terminal Type	Z1033-ND	44.85	40.37	35.88	32.30	G7J-3A1B-B-W1AC100/120
		240VAC	—		Screw Terminal Type	Z1034-ND	46.28	41.65	37.02	33.32	G7J-3A1B-B-W1AC200/240
	4PST	24VDC	288	25A @ 220VAC	Screw Terminal Type	Z1038-ND	40.83	36.75	32.66	29.40	G7J-4A-B-W1-DC24
		120VAC	—		Screw Terminal Type	Z1036-ND	44.85	40.37	35.88	32.30	G7J-4A-B-W1-AC100/120
		240VAC	—		Screw Terminal Type	Z1037-ND	46.28	41.65	37.02	33.32	G7J-4A-B-W1-AC200/240
Power Relays — Hermetically Sealed Case — RoHS Compliant											
3	4PDT	12DC	160	3A @ 110VAC; 3A @ 24VDC	Class 1, Division 2	Z1223-ND	44.18	39.76	35.34	31.81	MY4H-US-DC12
		24DC	650		Class 1, Division 2	Z1224-ND	46.55	41.90	37.24	33.52	MY4H-US-DC24
		120AC	4430		Class 1, Division 2	Z1225-ND	44.18	39.76	35.34	31.81	MY4H-US-AC110/120
—	Track Mounted Socket for Hermetically Sealed MY4					Z2650-ND	8.13	7.32	6.51	5.86	PYF14A-E-US
MY2K Latching Relays — Plug In — RoHS Compliant											
3	DPDT	12VDC	160	5A @ 220VAC 5A @ 24VDC	Dual Coil Latching	Z2056-ND§	18.45	16.61	14.76	13.29	MY2K-DC12
		24VDC	636		Dual Coil Latching	Z2057-ND§	18.15	16.34	14.52	13.07	MY2K-DC24
		120VAC	4430		Dual Coil Latching	Z2055-ND§	74.86	67.38	59.89	53.91	MY2K-AC120
DC Power Relays — G9E Series — RoHS Compliant											
6	SPST-NO	12DC	28.8	60A @ 400VDC	High Voltage DC	Z1610-ND	100.80	82.03	78.13	75.39	G9EA-1-B DC12
		24DC	115.2		High Voltage DC	Z1611-ND	100.80	82.03	78.13	75.39	G9EA-1-B DC24
		12DC	28.8		High Voltage DC	Z1612-ND	100.80	82.03	78.13	75.39	G9EA-1 DC12
		24DC	115.2		High Voltage DC	Z1613-ND	100.80	82.03	78.13	75.39	G9EA-1 DC24
		12DC	28.8	100A @ 400VDC	High Voltage DC	Z1614-ND	119.13	96.95	92.33	89.09	G9EA-1-CA-DC12
		24DC	115.2		High Voltage DC	Z1615-ND	172.25	155.03	137.80	124.02	G9EA-1-CA-DC24
		12DC	28.8		High Voltage DC	Z1616-ND	119.13	96.95	92.33	89.09	G9EA-1-B-CA-DC12
		24DC	115.2		High Voltage DC	Z1617-ND	119.13	96.95	92.33	89.09	G9EA-1-B-CA-DC24
		12DC	28.8	25A @ 400VDC	High Voltage DC	Z2304-ND	90.29	73.48	69.98	67.53	G9EB-1-B-DC12
		24DC	115.2		High Voltage DC	Z2305-ND	90.29	73.48	69.98	67.37	G9EB-1-B-DC24
7	SPST-NO	12VDC	12.8	200A @ 400VDC	High Voltage DC	Z1618-ND	190.41	156.25	150.77	145.75	G9EC-1-B DC12
		24VDC	51.2		High Voltage DC	Z1619-ND	190.41	156.25	150.77	145.75	G9EC-1-B DC24
		12VDC	12.8		High Voltage DC	Z1620-ND	190.41	156.25	150.77	145.75	G9EC-1 DC12
		24VDC	51.2		High Voltage DC	Z1621-ND	190.41	156.25	150.77	145.75	G9EC-1 DC24
Plug-In Safety Relays — RoHS Compliant											
8	6PST	24VDC	1152	6A	Force Guided Contacts	Z2626-ND	48.75	43.88	39.00	35.10	G7SA-4A2B-DC24
	4PST	24VDC	800	6A	Positive Guarded Contacts	Z2362-ND	38.56	35.70	33.32	30.94	G7S-4A2B-DC24
	3PST	24VDC	800	6A	Positive Guarded Contacts	Z2363-ND	38.56	35.70	33.32	30.94	G7S-3A3B-DC24
	DIN Rail Socket with Screw Terminals for G7S Safety Relay					Z2417-ND	24.72	22.89	21.37	19.84	P7S-14F
	PCB Mount Socket for G7S Safety Relay					Z2418-ND	9.98	9.24	8.63	8.01	P7S-14P
	DIN Rail Socket with Screw Terminals for G7SA Safety Relay					Z2627-ND	32.50	29.25	26.00	23.40	P7SA-14F
	Mounting Socket for G7SA Safety Relay					Z2628-ND	10.20	9.18	8.16	7.35	P7SA-14P

§ Use 4PDT MY or MY2 Sockets

Fig. 5

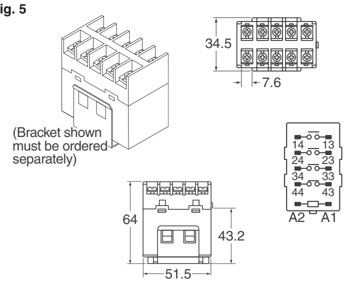

(Bracket shown must be ordered separately)

Fig. 6

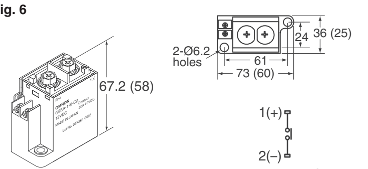

Dimensions in ( ) are for G9EB

Fig. 7

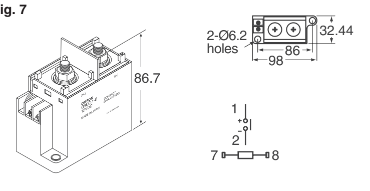

Fig. 8

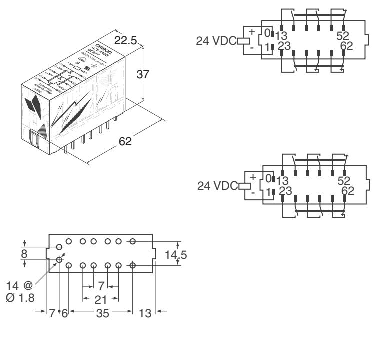

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Relay Sockets and Accessories

Use with Series	Description	Digi-Key Part No.	Price Each				Omron Part No.
			1	25	50	100	
LY	SPDT/DPDT Track Mounted Relay Sockets	Z791-ND	4.95	4.46	3.96	3.57	PTF08A-E
LY	3PDT Track Mounted Relay Sockets	Z2606-ND	7.59	6.84	6.08	5.47	PTF11A
LY	4PDT Track Mounted Relay Sockets	Z2612-ND	8.35	7.52	6.68	6.02	PTF14A-E
LY	SPDT/DPDT Back Connecting Sockets - PCB Mount	Z792-ND	1.80	1.62	1.44	1.30	PT08-0
LY	SPDT/DPDT Back Connecting Sockets - Solder Ear	Z793-ND	1.80	1.62	1.44	1.30	PT08
LY/MY	Socket Mounting Plate for Back Connect Sockets	Z794-ND	.30	.27	.24	.22	PYP-1
LY/MY	Relay Hold-Down Clip for Track Mounted Sockets	Z795-ND	.28	.25	.22	.20	PYC-A1
LY/MY	Relay Hold-Down Clip for Back Connecting Sockets	Z796-ND	.28	.25	.22	.20	PYC-P
MY2	DPDT Track Mounted Relay Sockets	Z882-ND	5.20	4.68	4.16	3.75	PYF08A-E
MY2	DPDT Track Mounted Relay Sockets (-55°C max. temperature)	Z2613-ND	5.39	4.85	4.31	3.88	PYF08A-N
MY3	3PDT Track Mounted Relay Sockets	Z2288-ND	9.19	8.28	7.36	6.62	PYF11A
MY4/MY2K	4PDT Track Mounted Relay Sockets	Z811-ND	7.55	6.80	6.04	5.44	PYF14A-E
MY4/MY2K	4PDT Track Mounted Relay Sockets (-55°C max. temperature)	Z2614-ND	8.08	7.27	6.46	5.82	PYF14A-N
MY4/MY2K	4PDT Back Connecting Sockets - Panel Mount	Z812-ND	1.80	1.62	1.44	1.30	PY14
MY4/MY2K	4PDT Back Connecting Sockets - PCB Mount	Z813-ND	1.80	1.62	1.44	1.30	PY14-02
MY4/MY2K	Screwless Socket (Wire Trap) Type for MY4 Series	Z2063-ND	10.73	9.66	8.58	7.73	PYF14S
MY4	Tool for MY4 Series Screwless Sockets	Z1670-ND	5.50	4.95	4.40	3.96	PYF-S-TOOL
MY2	Screwless Socket (Wire Trap) Type for MY2 Series	Z2062-ND	6.53	5.88	5.22	4.70	PYF08S
MY2	Socket Release Levers (Releases Relay) For PYF08S	Z2060-ND	.45	.41	.36	.33	PYCM-08S
MY4	Socket Release Levers (Releases Relay) For PYF14S	Z2061-ND	.81	.73	.65	.59	PYCM-14S
MY	Optional Nameplate for use with MY Wire Trap Socket	Z2000-ND	4.98	4.48	3.98	3.59	R99-11
MK	DPDT Track Mounted Relay Sockets	Z805-ND	4.65	4.19	3.72	3.35	PF083A-E
MK	DPDT Connecting Sockets - Panel Mount	Z836-ND	1.75	1.58	1.40	1.26	PL08
MK	DPDT Connecting Sockets - PCB Mount	Z837-ND	2.90	2.61	2.32	2.09	PLE08-0
MK	3PDT Track Mounted Relay Sockets	Z806-ND	6.65	5.99	5.32	4.79	PF113A-E
MK	3PDT Connecting Sockets - Panel Mount	Z838-ND	2.05	1.85	1.64	1.48	PL11
MK	3PDT Connecting Sockets - PCB Mount	Z839-ND	2.90	2.61	2.32	2.09	PLE11-0
ALL	1.0m (3.28ft.) DIN Rail Tracks (Low profile)	Z840-ND	6.43	5.79	5.14	4.63	PFP100N
ALL	0.5m (1.64ft.) DIN Rail Tracks (Low profile)	Z841-ND	5.23	4.71	4.18	3.77	PFP50N
ALL	1.0m (3.28ft.) DIN Rail Track (High profile)	Z2611-ND	13.41	12.07	10.73	9.66	PFP-100N2
—	End Stop Plate for Din Track Rails	Z887-ND	.77	.70	.62	.56	PFP-M
—	W-Bracket for Omron Relays	Z1238-ND	1.36	1.23	1.09	.99	R9904FORG5F

Panasonic
Panasonic Electric Works

High Frequency Relays

Dimensions in mm
Bottom view shown

Fig. 1 — *ARA Series*

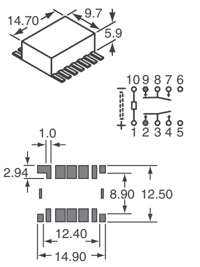

Fig. 2 — *ARE Series*

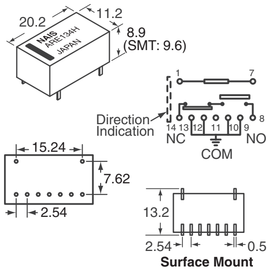

Fig. 3 — *ARJ Series*

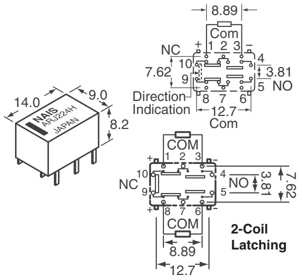

Fig. 4 — *RK Series*

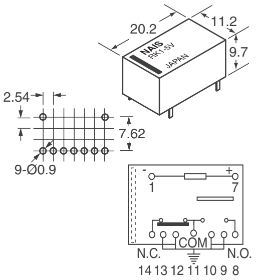

Fig. 5 — *RP Series*

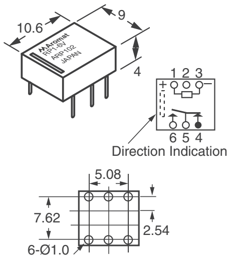

Fig.	Contact Arrangement	Coil Voltage	Coil Resistance (Ω)	Coil Current (mA)	Contact Ratings (A) 30VDC	Pickup/ Dropout/ Maximum Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
ARA Series High Frequency Relays												
1	DPDT	3DC	64.3	46.7	1	2.25/0.3/4.5	255-2155-5-ND	28.44	26.13	23.22	19.74	ARA200A03
		4.5DC	145	31	1	3.37/0.45/6.75	255-2158-5-ND	28.44	26.13	23.22	19.74	ARA200A4H
		5DC	178	28.1	1	3.75/0.5/6.75	255-2156-5-ND	28.44	26.13	23.22	19.74	ARA200A05
		12DC	1,028	11.7	1	9/1.2/18	255-2157-5-ND	28.44	26.13	23.22	19.74	ARA200A12
ARE Series High Frequency Relays												
2	SPDT-NO/NC	4.5DC	101	44.40	0.5	3.375/0.45/4.95	255-1573-ND	5.64	5.18	4.60	3.91	ARE134H
		12DC	720	16.70	0.5	9/1.2/13.2	255-1572-ND	5.64	5.18	4.60	3.91	ARE1312
		4.5DC	101	44.40	0.5	3.375/0.45/4.95	255-1575-5-ND	6.13	5.63	5.00	4.25	ARE13A4H
		12DC	720	16.70	0.5	9/1.2/13.2	255-1574-5-ND	6.13	5.63	5.00	4.25	ARE13A12
ARJ Series High Frequency Relays												
3	DPDT	4.5DC	101.2	44.4	0.3	3.375/0.45/4.95	255-1461-ND	164.44	151.02	134.24	114.11	ARJ20A4H
		12DC	720	16.6	0.3	9/1.2/13.2	255-1462-ND	164.44	151.02	134.24	114.11	ARJ20A12
ARJ Series Dual Coil Latching High Frequency Relays												
3	DPDT	4.5DC	135	33.3	0.3	3.375/3.375/4.95	255-1579-ND	164.44	151.02	134.24	114.11	ARJ22A4H
		12DC	960	12.5	0.3	9/9/13.2	255-1578-ND	164.44	151.02	134.24	114.11	ARJ22A12
RK Series High Frequency Relays												
4	SPDT	5DC	125	40	0.01	3.75/0.5/5.5	255-1085-ND	9.90	9.09	8.08	6.87	RK1-5V
		6DC	180	34	0.01	4.5/0.6/6.6	255-1086-ND	9.90	9.09	8.08	6.87	RK1-6V
		12DC	720	17	0.01	9/1.2/13.2	255-1087-ND	9.90	9.09	8.08	6.87	RK1-12V
		24DC	2,880	9	0.01	18/2.4/26.4	255-1088-ND	10.19	9.36	8.32	7.08	RK1-24V
RP Series High Frequency Low Profile Relays												
5	SPDT	5DC	178	28	0.1	3.75/0.5/7.5	255-1089-ND	23.30	21.40	19.02	16.17	RP1-5V
		12DC	1,028	11.7	0.1	9/1.2/18	255-1090-ND	23.30	21.40	19.02	16.17	RP1-12V

Signal Relays

Dimensions in mm
Bottom view shown (SMD's are top view)

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A) 30VDC	125VAC	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
AGQ Series Low Signal Relays													
1A	DPDT	1.5DC	16	93.8	1	0.3	PC Mount Non-Latching	255-1356-5-ND	3.58	3.29	2.92	2.49	AGQ2001H
		3DC	64.2	46.7	1	0.3		255-1505-5-ND	3.58	3.29	2.92	2.49	AGQ20003
		4.5DC	145	31	1	0.3		255-1357-5-ND	3.58	3.29	2.92	2.49	AGQ2004H
		12DC	1,028	11.7	1	0.3		255-1358-5-ND	3.58	3.29	2.92	2.49	AGQ20012
		24DC	2,504	9.6	1	0.3		255-1359-5-ND	4.21	3.87	3.44	2.93	AGQ20024
1B	DPDT	4.5DC	202.5	22.2	1	0.3	PC Mount 1 Coil Latching	255-2092-5-ND	3.92	3.60	3.20	2.72	AGQ2104H
AGQ Series Low Signal Relays SMD													
2A	DPDT	3DC	64.2	46.7	1	0.3	Long SMD Non-Latching	255-2091-5-ND	3.72	3.42	3.04	2.59	AGQ200A03
		3DC	64.2	46.7	1	0.3		255-2091-2-ND†		2052.00/900			AGQ200A03Z
		4.5DC	145	31	1	0.3		255-1860-ND	3.72	3.42	3.04	2.59	AGQ200A4H
		4.5DC	145	31	1	0.3		255-1860-2-ND†		2052.00/900			AGQ200A4HZ
		12DC	1,028	11.7	1	0.3		255-1858-ND	3.72	3.42	3.04	2.59	AGQ200A12
		12DC	1,028	11.7	1	0.3		255-1858-2-ND†		2052.00/900			AGQ200A12Z
		24DC	2,504	9.6	1	0.3		255-1859-ND	4.36	4.01	3.56	3.03	AGQ200A24
		3DC	90	33.3	1	0.3	Long SMD 1 Coil Latching	255-2093-2-ND†		2214.00/900			AGQ210A03Z
		4.5DC	202.5	22.2	1	0.3		255-2094-2-ND†		2214.00/900			AGQ210A4HZ
2B	DPDT	1.5DC	16	93.8	1	0.3	Short SMD Non-Latching	255-1360-5-ND	4.02	3.69	3.28	2.79	AGQ200S1H
		3DC	64.2	46.7	1	0.3		255-1361-5-ND	4.02	3.69	3.28	2.79	AGQ200S03
		3DC	64.2	46.7	1	0.3		255-1361-2-ND†		2214.00/900			AGQ200S03Z
		4.5DC	145	31	1	0.3		255-1362-5-ND	4.02	3.69	3.28	2.79	AGQ200S4H
		12DC	1,028	11.7	1	0.3		255-1363-5-ND	4.02	3.69	3.28	2.79	AGQ200S12
		24DC	2,504	9.6	1	0.3		255-1364-5-ND	4.66	4.28	3.80	3.23	AGQ200S24
		3DC	90	33.3	1	0.3	Short SMD 1 Coil Latching	255-2095-2-ND†		2214.00/900			AGQ210S03Z
		4.5DC	202.5	22.2	1	0.3		255-2096-2-ND†		2214.00/900			AGQ210S4HZ
AGN Series Compact Low Signal Relays													
3A	DPDT	3DC	64.2	46.7	1	0.3	PC Mount Non-Latching	255-2085-5-ND	3.58	3.29	2.92	2.49	AGN20003
		4.5DC	145	31	1	0.3		255-1230-5-ND	3.58	3.29	2.92	2.49	AGN2004H
		12DC	1,028	11.7	1	0.3		255-1231-5-ND	3.58	3.29	2.92	2.49	AGN20012
		24DC	2,504	9.6	1	0.3		255-1232-5-ND	4.21	3.87	3.44	2.93	AGN20024
		3DC	64.2	46.7	1	0.3	PC Mount 1 Coil Latching	255-1855-ND	3.92	3.60	3.20	2.72	AGN21003
		4.5DC	145	31	1	0.3		255-1857-ND	3.92	3.60	3.20	2.72	AGN2104H
		12DC	202.5	22.2	1	0.3		255-1856-ND	3.92	3.60	3.20	2.72	AGN21012
AGN Series Compact Low Signal Relays SMD													
3B	DPDT	3DC	64.2	46.7	1	0.3	Long SMD Non-Latching	255-1504-5-ND	3.72	3.42	3.04	2.59	AGN200A03
		3DC	64.2	46.7	1	0.3		255-1504-2-ND†		1140.00/500			AGN200A03Z
		4.5DC	145	31	1	0.3		255-1233-5-ND	3.72	3.42	3.04	2.59	AGN200A4H
		4.5DC	145	31	1	0.3		255-1233-2-ND†		1140.00/500			AGN200A4HZ
		6DC	257	23.3	1	0.3		255-2086-5-ND	3.72	3.42	3.04	2.59	AGN200A06

Fig. 1 — *AGQ Series – PCB*

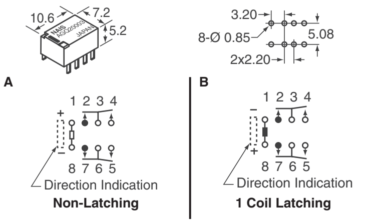

A: **Non-Latching** B: **1 Coil Latching**

Fig. 2 — *AGQ Series – SMD*

A — Long SMD

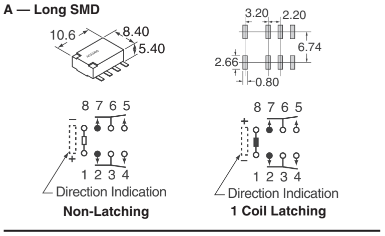

Non-Latching **1 Coil Latching**

B — Short SMD

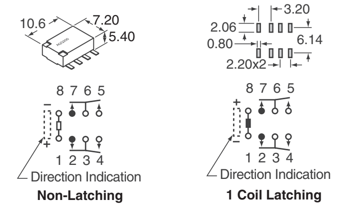

Non-Latching **1 Coil Latching**

† Tape and Reel

(Continued)

Fig. 3 — *AGN Series*

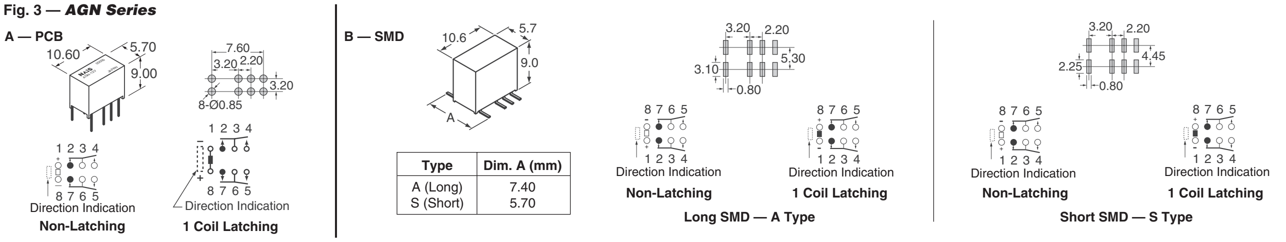

Type	Dim. A (mm)
A (Long)	7.40
S (Short)	5.70

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30VDC	125VAC			1	25	50	100	
3B	DPDT	12DC	1,028	11.7	1	0.3	Long SMD Non-Latching	255-1234-5-ND	3.72	3.42	3.04	2.59	AGN200A12
		12DC	1,028	11.7	1	0.3		255-1234-2-ND†		1140.00/500			AGN200A12Z
		24DC	2,504	9.6	1	0.3		255-1235-5-ND	4.36	4.01	3.56	3.03	AGN200A24
		24DC	2,504	9.6	1	0.3		255-1235-2-ND†		1335.00/500			AGN200A24Z
		4.5DC	202.5	22.2	1	0.3	Long SMD 1 Coil Latching	255-2089-5-ND	4.02	3.69	3.28	2.79	AGN210A4H
3B	DPDT	3DC	64.2	46.7	1	0.3	Short SMD Non-Latching	255-2087-5-ND	3.72	3.42	3.04	2.59	AGN200S03
		3DC	64.2	46.7	1	0.3		255-2087-2-ND†		1057.50/500			AGN200S03Z
		4.5DC	145	31	1	0.3		255-1854-ND	3.72	3.42	3.04	2.59	AGN200S4H
		4.5DC	145	31	1	0.3		255-1854-2-ND†		1057.50/500			AGN200S4HZ
		12DC	202.5	22.2	1	0.3		255-1853-ND	3.72	3.42	3.04	2.59	AGN200S12
		12DC	1,028	11.7	1	0.3		255-1853-2-ND†		1057.50/500			AGN200S12Z
		24DC	2,504	9.6	1	0.3		255-2088-2-ND†		1335.00/500			AGN200S24Z
		4.5DC	202.5	22.2	1	0.3	Short SMD 1 Coil Latching	255-2090-5-ND	4.02	3.69	3.28	2.79	AGN210S4H
		4.5DC	202.5	22.2	1	0.3		255-2090-2-ND†		1230.00/500			AGN210S4HZ
DE Series High-Insulation Power Relay													
4	DPST	4.5DC	101	44.5	8	8	PC Mount	255-1904-ND	10.17	9.34	8.30	7.06	DE2A-4.5V
		12DC	720	16.6	8	8		255-1903-ND	10.17	9.34	8.30	7.06	DE2A-12V
DS Series Relays (High Sensitivity and Standard Coils)													
5A	SPDT	3DC	45	—	2	2	Sensitive Coil Non-Latching	255-1478-ND	7.06	6.48	5.76	4.90	DS1E-S-DC3V
		5DC	125	—	2	2		255-1609-ND	7.06	6.48	5.76	4.90	DS1E-S-DC5V
		12DC	720	—	2	2		255-1607-ND	7.06	6.48	5.76	4.90	DS1E-S-DC12V
		24DC	2,880	—	2	2		255-1608-ND	7.06	6.48	5.76	4.90	DS1E-S-DC24V
		5DC	62.5	80	2	2	Standard Coil Non-Latching	255-1474-ND	5.00	4.59	4.08	3.47	DS1E-M-DC5V
		12DC	360	33.3	2	2		255-1473-ND	5.00	4.59	4.08	3.47	DS1E-M-DC12V
		12DC	360	33.3	2	2		255-2192-ND	5.00	4.59	4.08	3.47	DS1E-M-DC12V-TB
		24DC	1,440	16.3	2	2		255-1605-ND	5.00	4.59	4.08	3.47	DS1E-M-DC24V
5B	SPDT	3DC	45	66.6	2	2	Sensitive Coil 1 Coil Latching	255-1993-ND	7.84	7.20	6.40	5.44	DS1E-SL-DC3V
		5DC	125	40	2	2		255-1994-ND	7.84	7.20	6.40	5.44	DS1E-SL-DC5V
		12DC	720	16.6	2	2		255-1872-ND	7.86	7.23	6.42	5.46	DS1E-SL-DC12V
		24DC	2880	8.3	2	2		255-1995-ND	7.86	7.23	6.42	5.46	DS1E-SL-DC24V
		5DC	139	35.9	2	2	Standard Coil 1 Coil Latching	255-2195-ND	5.83	5.36	4.76	4.05	DS1E-ML-DC5V
		12DC	800	15	2	2		255-2193-ND	5.83	5.36	4.76	4.05	DS1E-ML-DC12V
		24DC	3,200	7.5	2	2		255-2194-ND	5.83	5.36	4.76	4.05	DS1E-ML-DC24V
5C	SPDT	3DC	45	66.6	2	2	Sensitive Coil 2 Coil Latching	255-1873-ND	7.60	6.98	6.20	5.27	DS1E-SL2-DC3V
		5DC	69.4	—	2	2	Standard Coil 2 Coil Latching	255-1477-ND	5.59	5.13	4.56	3.88	DS1E-ML2-DC5V
		6DC	100	60	2	2		255-2196-ND	5.59	5.13	4.56	3.88	DS1E-ML2-DC6V
		12DC	400	—	2	2		255-1475-ND	5.59	5.13	4.56	3.88	DS1E-ML2-DC12V
		24DC	1,600	—	2	2		255-1606-ND	5.59	5.13	4.56	3.88	DS1E-ML2-DC24V
6A	DPDT	1.5DC	11.3	132.7	2	2	Sensitive Coil Non-Latching	255-2198-ND	4.34	3.99	3.54	3.01	DS2E-S-DC1.5V
		3DC	45	66.6	2	2		255-1874-ND	4.34	3.99	3.54	3.01	DS2E-S-DC3V
		5DC	125	40	2	2		255-1062-ND	4.34	3.99	3.54	3.01	DS2E-S-DC5V
		6DC	180	30	2	2		255-1610-ND	4.34	3.99	3.54	3.01	DS2E-S-DC6V
		9DC	405	22.2	2	2		255-2200-ND	4.34	3.99	3.54	3.01	DS2E-S-DC9V
		12DC	720	16.6	2	2		255-1063-ND	4.34	3.99	3.54	3.01	DS2E-S-DC12V
		24DC	2,880	8.3	2	2		255-1064-ND	4.34	3.99	3.54	3.01	DS2E-S-DC24V
		48DC	11,520	4.1	2	2		255-1065-ND	5.88	5.40	4.80	4.08	DS2E-S-DC48V
		48DC	11,520	4.1	2	2		255-2199-ND	5.88	5.40	4.80	4.08	DS2E-S-DC48V-TB
		5DC	62.5	80	2	2	Standard Coil Non-Latching	255-1070-ND	3.48	3.20	2.84	2.42	DS2E-M-DC5V
		9DC	203	60	2	2		255-1479-ND	3.48	3.20	2.84	2.42	DS2E-M-DC9V
		12DC	360	33.2	2	2		255-1071-ND	3.48	3.20	2.84	2.42	DS2E-M-DC12V
		24DC	1,440	16.6	2	2		255-1072-ND	3.48	3.20	2.84	2.42	DS2E-M-DC24V
		48DC	5,760	8.3	2	2		255-1073-ND	4.36	4.01	3.56	3.03	DS2E-M-DC48V
6B	DPDT	5DC	125	40	2	2	Sensitive Coil 1 Coil Latching	255-1875-ND	4.95	4.55	4.04	3.44	DS2E-SL-DC5V
6C	DPDT	3DC	25	—	2	2	Standard Coil 2 Coil Latching	255-1480-ND	4.14	3.81	3.38	2.88	DS2E-ML2-DC3V
		5DC	69.4	72	2	2		255-1074-ND	4.14	3.81	3.38	2.88	DS2E-ML2-DC5V
		9DC	225	40	2	2		255-2197-ND	4.14	3.81	3.38	2.88	DS2E-ML2-DC9V
		12DC	400	30	2	2		255-1075-ND	4.14	3.81	3.38	2.88	DS2E-ML2-DC12V
		24DC	1,600	15	2	2		255-1076-ND	4.14	3.81	3.38	2.88	DS2E-ML2-DC24V
		48DC	6,400	7.5	2	2		255-1077-ND	5.54	5.09	4.52	3.85	DS2E-ML2-DC48V
		5DC	139	35.9	2	2	Sensitive Coil 2 Coil Latching	255-1066-ND	5.12	4.71	4.18	3.56	DS2E-SL2-DC5V
		12DC	800	15	2	2		255-1067-ND	5.12	4.71	4.18	3.56	DS2E-SL2-DC12V
		24DC	3,200	7.5	2	2		255-1068-ND	5.12	4.71	4.18	3.56	DS2E-SL2-DC24V
		48DC	12,800	3.25	2	2		255-1069-ND	6.10	5.61	4.98	4.24	DS2E-SL2-DC48V
7A	4DPT	3DC	45	66.6	2	2	Sensitive Coil Non-Latching	255-1876-ND	9.90	9.09	8.08	6.87	DS4E-S-DC3V
		5DC	125	40	2	2		255-1482-ND	9.90	9.09	8.08	6.87	DS4E-S-DC5V
		6DC	180	30	2	2		255-1483-ND	9.90	9.09	8.08	6.87	DS4E-S-DC6V
		12DC	720	16.6	2	2		255-1481-ND	9.90	9.09	8.08	6.87	DS4E-S-DC12V
		24DC	2,880	8.3	2	2		255-1616-ND	9.90	9.09	8.08	6.87	DS4E-S-DC24V
		48DC	11,520	4.1	2	2		255-1877-ND	12.42	11.41	10.14	8.62	DS4E-S-DC48V
		5DC	62.50	80	2	2	Standard Coil Non-Latching	255-1614-ND	8.75	8.04	7.14	6.07	DS4E-M-DC5V
		12DC	360	33.3	2	2		255-1611-ND	8.75	8.04	7.14	6.07	DS4E-M-DC12V
		24DC	1,440	16.6	2	2		255-1612-ND	8.75	8.04	7.14	6.07	DS4E-M-DC24V
		48DC	5,760	8.3	2	2		255-1613-ND	8.75	8.04	7.14	6.07	DS4E-M-DC48V

Fig. 4 — *DE Series – PCB*

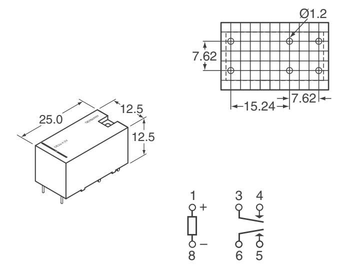

Fig. 5 — *DS Series – PCB*

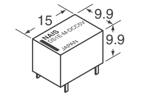

DS1E

A

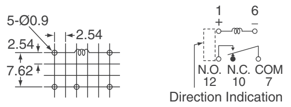

Non-Latching

B

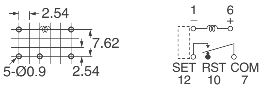

1 Coil Latching

C

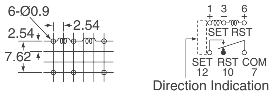

2 Coil Latching

† Tape and Reel

(Continued)

Fig. 6 — *DS Series – PCB*

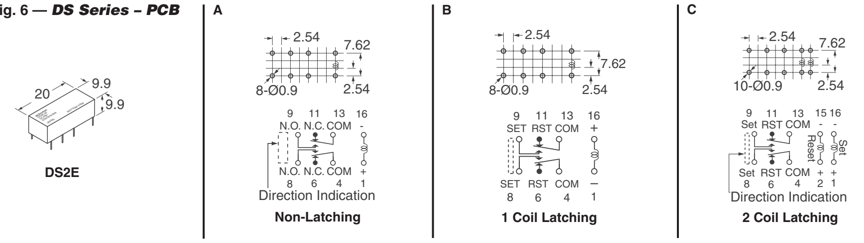

A: Non-Latching B: 1 Coil Latching C: 2 Coil Latching

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30VDC	125VAC			1	25	50	100	
7B	4PDT	5DC	139	—	2	2	Sensitive Coil 2 Coil Latching	255-1484-ND	11.54	10.60	9.42	8.01	DS4E-SL2-DC5V
		24DC	3,200	—	2	2		255-1617-ND	11.54	10.60	9.42	8.01	DS4E-SL2-DC24V
		12DC	800	15	2	2		255-2204-ND	11.54	10.60	9.42	8.01	DS4E-SL2-DC12V
		5DC	69.4	—	2	2	Standard Coil 2 Coil Latching	255-1615-ND	9.80	9.00	8.00	6.80	DS4E-ML2-DC5V
		24DC	1,600	15	2	2		255-2203-ND	9.80	9.00	8.00	6.80	DS4E-ML2-DC24V
DS2Y Series Low Signal Relays													
8	DPDT	5DC	125	40	2	2	Sensitive Coil	255-1078-ND	2.84	2.61	2.32	1.98	DS2Y-S-DC5V
		6DC	180	33.3	2	2		255-2201-ND	2.84	2.61	2.32	1.98	DS2Y-S-DC6V
		9DC	405	22.2	2	2		255-2202-ND	2.84	2.61	2.32	1.98	DS2Y-S-DC9V
		12DC	720	16.7	2	2		255-1079-ND	2.84	2.61	2.32	1.98	DS2Y-S-DC12V
		24DC	2,880	8.3	2	2		255-1080-ND	2.94	2.70	2.40	2.04	DS2Y-S-DC24V
		48DC	7,680	6.3	2	2		255-1081-ND	3.94	3.63	3.22	2.74	DS2Y-S-DC48V
HY Series General Purpose Relays													
9	SPDT	3DC	60	50	1	—	High Sensitivity	255-1391-ND	3.38	3.11	2.76	2.35	HY1-3V
		5DC	166	30.1	1	—		255-1092-ND	3.38	3.11	2.76	2.35	HY1-5V
		12DC	960	12.5	1	—		255-1093-ND	3.38	3.11	2.76	2.35	HY1-12V
		24DC	3,840	6.25	1	—		255-1094-ND	4.24	3.90	3.46	2.95	HY1-24V
		5DC	125	40	1	—	PC Mount	255-1799-5-ND	3.09	2.84	2.52	2.15	HY1Z-5V
		6DC	180	33.3	1	—		255-1800-5-ND	3.09	2.84	2.52	2.15	HY1Z-6V
		12DC	720	16.7	1	—		255-1797-5-ND	3.09	2.84	2.52	2.15	HY1Z-12V
ASX Series Low Signal Relays													
10A	DPDT	3DC	180	16.7	.01	.01	PC Mount Non-Latching	255-1402-5-ND	5.93	5.45	4.84	4.12	ASX20003
		4.5DC	405	11.1	.01	.01		255-1403-5-ND	5.93	5.45	4.84	4.12	ASX2004H
		12DC	2,880	4.2	.01	.01		255-1404-5-ND	5.93	5.45	4.84	4.12	ASX20012
		24DC	8,229	2.9	.01	.01		255-1405-5-ND	6.76	6.21	5.52	4.70	ASX20024
10B	DPDT	1.5DC	64.3	23.3	.01	.01	PC Mount 1 Coil Latching	255-1870-ND	6.64	6.10	5.42	4.61	ASX2101H
		3DC	257	11.7	.01	.01		255-1580-5-ND	6.64	6.10	5.42	4.61	ASX21003
		4.5DC	579	7.8	.01	.01		255-1583-5-ND	6.64	6.10	5.42	4.61	ASX2104H
		12DC	4,114	2.9	.01	.01		255-1581-5-ND	6.64	6.10	5.42	4.61	ASX21012
		24DC	11,520	2.10	.01	.01		255-1582-5-ND	7.20	6.62	5.88	5.00	ASX21024
10C	DPDT	4.5DC	289	15.6	10mA@10DC		2 Coil Latching	255-1591-5-ND	6.76	6.21	5.52	4.70	ASX2204H
11A	DPDT	3DC	180	16.7	.01	.01	SMD Mount Non-Latching	255-1406-5-ND	6.15	5.65	5.02	4.27	ASX200A03
		4.5DC	405	11.1	.01	.01		255-1407-5-ND	6.15	5.65	5.02	4.27	ASX200A4H
		12DC	2,880	4.2	.01	.01		255-1408-5-ND	6.15	5.65	5.02	4.27	ASX200A12
		24DC	8,229	2.9	.01	.01		255-1409-5-ND	7.03	6.46	5.74	4.88	ASX200A24
11B	DPDT	3DC	257	11.7	.01	.01	SMD Mount 1 Coil Latching	255-1584-5-ND	6.86	6.30	5.60	4.76	ASX210A03
		4.5DC	579	7.8	.01	.01		255-1587-5-ND	6.86	6.30	5.60	4.76	ASX210A4H
		12DC	4,114	2.9	.01	.01		255-1585-5-ND	6.86	6.30	5.60	4.76	ASX210A12
		24DC	11,520	2.1	.01	.01		255-1586-5-ND	7.45	6.84	6.08	5.17	ASX210A24
TK Series Low Signal Relays													
12A	SPDT	3DC	64.3	46.7	2	0.5	Low Profile Non-Latching	255-1756-5-ND	4.70	4.32	3.84	3.27	TK1-3V
		4.5DC	145	31.1	2	0.5		255-1757-5-ND	4.70	4.32	3.84	3.27	TK1-4.5V
		5DC	178	28.1	2	0.5		255-1028-5-ND	4.70	4.32	3.84	3.27	TK1-5V
		9DC	579	15.5	2	0.5		255-1758-5-ND	4.70	4.32	3.84	3.27	TK1-9V
		12DC	1,028	11.7	2	0.5		255-1029-5-ND	4.70	4.32	3.84	3.27	TK1-12V
		24DC	2,133	11.3	2	0.5		255-1030-5-ND	5.39	4.95	4.40	3.74	TK1-24V
12B	SPDT	4.5DC	202.5	22.2	2	0.5	Low Profile 1 Coil Latching	255-2254-ND	5.15	4.73	4.20	3.57	TK1-L-4.5V
		5DC	250	20	2	0.5		255-1764-5-ND	5.15	4.73	4.20	3.57	TK1-L-5V
		6DC	360	16.7	2	0.5		255-2255-ND	4.85	4.46	3.96	3.37	TK1-L-6V
		12DC	1,440	8.3	2	0.5		255-1759-5-ND	5.15	4.73	4.20	3.57	TK1-L-12V
		24DC	3,840	6.3	2	0.5		255-1762-5-ND	5.86	5.38	4.78	4.07	TK1-L-24V
12C	SPDT	5DC	125	40	2	0.5	Low Profile 2 Coil Latching	255-1763-5-ND	6.00	5.52	4.90	4.17	TK1-L2-5V
		12DC	576	20.8	2	0.5		255-1760-5-ND	6.00	5.52	4.90	4.17	TK1-L2-12V
		24DC	1,440	16.7	2	0.5		255-1761-5-ND	6.66	6.12	5.44	4.63	TK1-L2-24V
TN Series Low Signal Relays													
13A	DPDT	3DC	64.3	46.7	1	0.5	PC Mount Non-Latching	255-1385-5-ND	4.14	3.81	3.38	2.88	TN2-3V
		4.5DC	145	31.1	1	0.5		255-1765-5-ND	4.14	3.81	3.38	2.88	TN2-4.5V
		5DC	178	28.1	1	0.5		255-1022-5-ND	4.14	3.81	3.38	2.88	TN2-5V
		9DC	579	15.5	1	0.5		255-1386-5-ND	4.14	3.81	3.38	2.88	TN2-9V
		12DC	1,028	11.7	1	0.5		255-1023-5-ND	4.14	3.81	3.38	2.88	TN2-12V
		24DC	2,880	8.3	1	0.5		255-1024-5-ND	4.90	4.50	4.00	3.40	TN2-24V
		48DC	7,680	6.25	1	0.5		255-2256-ND	6.37	5.85	5.20	4.42	TN2-48V
13B	DPDT	5DC	250	20	1	0.5	PC Mount 1 Coil Latching	255-2000-ND	4.90	4.50	4.00	3.40	TN2-L-5V
		12DC	1,440	6.3	1	0.5		255-2001-ND	4.90	4.50	4.00	3.40	TN2-L-12V
		24DC	3,840	8.3	1	0.5		255-2002-ND	5.59	5.13	4.56	3.88	TN2-L-24V
13C	DPDT	5DC	125	40	1	0.5	PC Mount 2 Coil Latching	255-1025-5-ND	5.15	4.73	4.20	3.57	TN2-L2-5V
		12DC	720	16.7	1	0.5		255-1026-5-ND	5.15	4.73	4.20	3.57	TN2-L2-12V
		24DC	1,920	12.5	1	0.5		255-1027-5-ND	5.81	5.34	4.74	4.03	TN2-L2-24V

Fig. 7 — *DS Series – PCB*

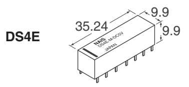

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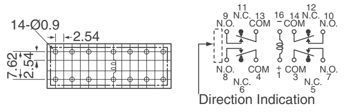
14-Ø0.9
2.54
7.62
2.54
9 N.O. 11 N.C. 13 COM 16 - 14 N.C. COM 12 10 N.O.
N.O. N.C. COM + COM N.C. N.O.
8 6 4 1 3 5 7
Direction Indication

Non-Latching

B

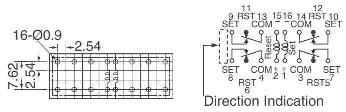
16-Ø0.9
2.54
7.62
2.54
9 SET 11 RST 13 COM 15 16 14 COM 12 RST 10 SET
Reset
Set
SET RST COM + + COM RST SET
8 6 4 2 1 3 5 7
Direction Indication

2 Coil Latching

Fig. 8 — *DS2Y Series – PCB*

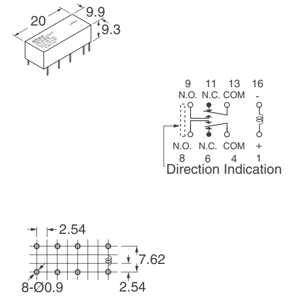

Fig. 9 — *HY Series – PCB*

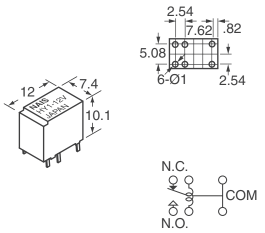

† Tape and Reel

(Continued)

Fig. 10 — *ASX Series – PCB*

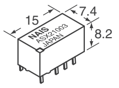

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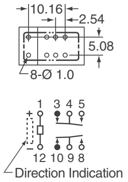

Non-Latching

B

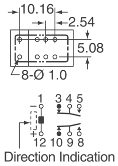

1 Coil Latching

C

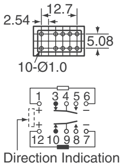

2 Coil Latching

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30VDC	125VAC			1	25	50	100	
TQ Series Low Signal Relays													
14A	DPDT	3DC	64.3	46.7	1	0.5	PC Mount Non-Latching	255-1225-5-ND	2.79	2.57	2.28	1.94	TQ2-3V
		4.5DC	144	31.1	1	0.5		255-1226-5-ND	2.79	2.57	2.28	1.94	TQ2-4.5V
		5DC	178	28.1	1	0.5		255-1001-5-ND	2.79	2.57	2.28	1.94	TQ2-5V
		6DC	257	23.3	1	0.5		255-2258-ND	2.79	2.57	2.28	1.94	TQ2-6V
		9DC	579	15.50	1	0.5		255-1766-5-ND	2.79	2.57	2.28	1.94	TQ2-9V
		12DC	1,028	11.7	1	0.5		255-1002-5-ND	2.79	2.57	2.28	1.94	TQ2-12V
		24DC	2,880	8.3	1	0.5		255-1003-5-ND	3.36	3.09	2.74	2.33	TQ2-24V
		48DC	7,680	6.25	1	0.5		255-1801-5-ND	4.34	3.99	3.54	3.01	TQ2-48V
		5DC	178	28.1	1	0.5	PC Mount AgPd	255-2257-ND	2.79	2.57	2.28	1.94	TQ2-5V-3
		5DC	178	28.1	1	0.5	PC Mount Self Clinch Term.	255-2261-ND	2.79	2.57	2.28	1.94	TQ2H-5V
		12DC	1,028	11.7	1	0.5		255-2259-ND	2.79	2.57	2.28	1.94	TQ2H-12V
		24DC	2,880	8.3	1	0.5		255-2260-ND	3.36	3.09	2.74	2.33	TQ2H-24V
14B	DPDT	3DC	90	33.3	1	0.5	PC Mount 1 Coil Latching	255-1492-5-ND	3.36	3.09	2.74	2.33	TQ2-L-3V
		4.5DC	202.5	22.2	1	0.5		255-1769-5-ND	3.36	3.09	2.74	2.33	TQ2-L-4.5V
		5DC	250	20	1	0.5		255-1004-5-ND	3.36	3.09	2.74	2.33	TQ2-L-5V
		12DC	1,440	8.3	1	0.5		255-1005-5-ND	3.36	3.09	2.74	2.33	TQ2-L-12V
		24DC	3840	12.5	1	0.5		255-1006-5-ND	3.80	3.49	3.10	2.64	TQ2-L-24V
14C	DPDT	3DC	45	66.7	1	0.5	PC Mount 2 Coil Latching	255-1767-5-ND	3.50	3.22	2.86	2.44	TQ2-L2-3V
		4.5DC	101.2	44.4	1	0.5		255-1768-5-ND	3.50	3.22	2.86	2.44	TQ2-L2-4.5V
		5DC	125	40	1	0.5		255-1007-5-ND	3.50	3.22	2.86	2.44	TQ2-L2-5V
		9DC	405	22.2	1	0.5		255-1355-5-ND	3.50	3.22	2.86	2.44	TQ2-L2-9V
		12DC	720	16.7	1	0.5		255-1008-5-ND	3.50	3.22	2.86	2.44	TQ2-L2-12V
		24DC	1,920	12.5	1	0.5		255-1009-5-ND	3.97	3.65	3.24	2.76	TQ2-L2-24V
15A	4PDT	3DC	32	93.8	1	0.5	PC Mount Non-Latching	255-1890-ND	18.69	17.17	15.26	12.98	TQ4-3V
		4.5DC	72.3	62.2	1	0.5		255-1777-5-ND	18.69	17.17	15.26	12.98	TQ4-4.5V
		5DC	89	56.2	1	0.5		255-1013-5-ND	18.69	17.17	15.26	12.98	TQ4-5V
		12DC	514	23.3	1	0.5		255-1014-5-ND	18.69	17.17	15.26	12.98	TQ4-12V
		24DC	2,056	11.7	1	0.5		255-1015-5-ND	20.26	18.61	16.54	14.06	TQ4-24V
		48DC	5,760	8.3	1	0.5		255-1891-ND	22.79	20.93	18.60	15.81	TQ4-48V
		5DC	89	56.2	1	0.5	PC Mount AgPd	255-2290-5-ND	18.69	17.17	15.26	12.98	TQ4-5V-3
15B	4PDT	4.5DC	50.6	88.9	1	0.5	PC Mount 2 Coil Latching	255-1779-5-ND	22.37	20.55	18.26	15.53	TQ4-L2-4.5V
		5DC	62.5	80	1	0.5		255-1780-5-ND	22.37	20.55	18.26	15.53	TQ4-L2-5V
		12DC	360	33.3	1	0.5		255-1493-5-ND	22.37	20.55	18.26	15.53	TQ4-L2-12V
		24DC	1,440	16.7	1	0.5		255-1778-5-ND	23.89	21.94	19.50	16.58	TQ4-L2-24V
16A	DPDT	1.5DC	16	93.8	2	0.5	SMD Mount Non-Latching	255-1224-5-ND	3.19	2.93	2.60	2.21	TQ2SA-1.5V
		1.5DC	16	93.8	2	0.5		255-1224-2-ND†	975.00/500				TQ2SA-1.5V-Z
		3DC	64.3	46.7	2	0.5		255-1228-5-ND	3.19	2.93	2.60	2.21	TQ2SA-3V
		3DC	64.3	46.7	2	0.5		255-1228-2-ND†	975.00/500				TQ2SA-3V-Z
		4.5DC	145	31	2	0.5		255-1229-5-ND	3.19	2.93	2.60	2.21	TQ2SA-4.5V
		4.5DC	145	31	2	0.5		255-1229-2-ND†	975.00/500				TQ2SA-4.5V-Z
		5DC	178	28.1	2	0.5		255-1010-5-ND	3.19	2.93	2.60	2.21	TQ2SA-5V
		5DC	178	28.1	2	0.5		255-1010-2-ND†	975.00/500				TQ2SA-5V-Z
		6DC	257	23.3	2	0.5		255-2265-5-ND	3.19	2.93	2.60	2.21	TQ2SA-6V
		12DC	1,028	11.7	2	0.5		255-1011-5-ND	3.19	2.93	2.60	2.21	TQ2SA-12V
		12DC	1,028	11.7	2	0.5		255-1011-2-ND†	975.00/500				TQ2SA-12V-Z
		24DC	2,880	8.3	2	0.5		255-1012-5-ND	3.80	3.49	3.10	2.64	TQ2SA-24V
		24DC	2,880	8.3	2	0.5		255-2263-2-ND†	1162.50/500				TQ2SA-24V-Z
		24DC	2,880	8.3	2	0.5		255-2262-2-ND†	1162.50/500				TQ2SA-24V-X
		48DC	7,680	6.3	2	0.5		255-2264-5-ND	4.88	4.48	3.98	3.39	TQ2SA-48V
		3DC	64.3	46.7	2	0.5	SMD Mount Non-Latching	255-2271-5-ND	3.19	2.93	2.60	2.21	TQ2SL-3V
		3DC	64.3	46.7	2	0.5		255-2271-2-ND†	975.00/500				TQ2SL-3V-Z
		5DC	178	28.1	2	0.5		255-2272-5-ND	3.19	2.93	2.60	2.21	TQ2SL-5V
		12DC	1,028	11.7	2	0.5		255-2269-2-ND†	975.00/500				TQ2SL-12V-Z
		24DC	2,880	8.3	2	0.5		255-2270-5-ND	3.80	3.49	3.10	2.64	TQ2SL-24V
		1.5DC	16	93.8	2	0.5	SMD Mount Non-Latching	255-2280-5-ND	3.01	2.77	2.46	2.10	TQ2SS-1.5V
		4.5DC	145	31	2	0.5		255-2282-5-ND	3.19	2.93	2.60	2.21	TQ2SS-4.5V
		5DC	178	28.1	2	0.5		255-2283-5-ND	3.19	2.93	2.60	2.21	TQ2SS-5V
		12DC	1,028	11.7	2	0.5		255-2279-5-ND	3.19	2.93	2.60	2.21	TQ2SS-12V
		24DC	2,880	8.3	2	0.5		255-2281-5-ND	3.80	3.49	3.10	2.64	TQ2SS-24V
16B	DPDT	4.5DC	289.3	15.6	2	0.5	SMD Mount 1 Coil Latching	255-2266-5-ND	3.80	3.49	3.10	2.64	TQ2SA-L-4.5V
		5DC	357	14	2	0.5		255-1776-5-ND	3.80	3.49	3.10	2.64	TQ2SA-L-5V
		5DC	357	14	2	0.5		255-1776-2-ND†	1162.50/500				TQ2SA-L-5V-X
		12DC	2,057	5.8	2	0.5		255-1770-5-ND	3.80	3.49	3.10	2.64	TQ2SA-L-12V
		24DC	5,760	4.2	2	0.5		255-1774-5-ND	4.29	3.94	3.50	2.98	TQ2SA-L-24V
		24DC	5,760	4.2	2	0.5	SMD Mount 1 Coil Latching	255-2273-5-ND	4.19	3.85	3.42	2.91	TQ2SL-L-24V
		5DC	357	14	2	0.5	SMD Mount 1 Coil Latching	255-2284-5-ND	3.80	3.49	3.10	2.64	TQ2SS-L-5V
		5DC	357	14	2	0.5		255-2284-2-ND†	1162.50/500				TQ2SS-L-5V-Z
16C	DPDT	3DC	64.3	46.7	2	0.5	SMD Mount 2 Coil Latching	255-2267-5-ND	3.97	3.65	3.24	2.76	TQ2SA-L2-3V
		4.5DC	145	31	2	0.5		255-1773-5-ND	3.97	3.65	3.24	2.76	TQ2SA-L2-4.5V
		5DC	178	28.1	2	0.5		255-1775-5-ND	3.97	3.65	3.24	2.76	TQ2SA-L2-5V
		5DC	178	28.1	2	0.5		255-1775-2-ND†	1215.00/500				TQ2SA-L2-5V-Z
		9DC	579	15.5	2	0.5		255-2268-5-ND	3.97	3.65	3.24	2.76	TQ2SA-L2-9V
		12DC	1,028	11.7	2	0.5		255-1771-5-ND	3.97	3.65	3.24	2.76	TQ2SA-L2-12V
		12DC	1,028	11.7	2	0.5		255-1771-2-ND†	1215.00/500				TQ2SA-L2-12V-Z
		24DC	2,880	8.3	2	0.5		255-1772-5-ND	4.43	4.08	3.62	3.08	TQ2SA-L2-24V

Fig. 11 — *ASX Series - SMD*

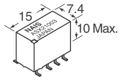

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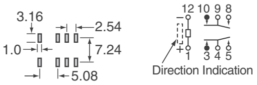

Non-Latching

B

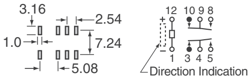

1 Coil Latching

Fig. 12 — *TK Series – PCB*

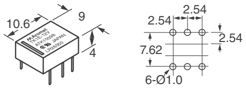

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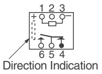

Non-Latching

B

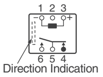

1 Coil Latching

C

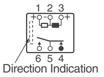

2 Coil Latching

Fig. 13 — *TN Series – PCB*

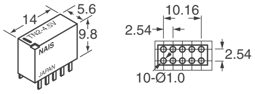

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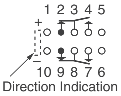

Non-Latching

B

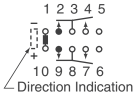

1 Coil Latching

C

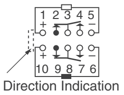

2 Coil Latching

† Tape and Reel

(Continued)

Fig. 14 — *TQ Series – PCB*

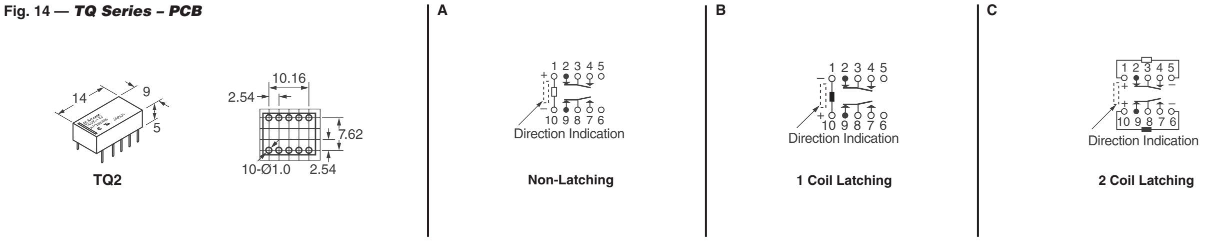

TQ2

Non-Latching

1 Coil Latching

2 Coil Latching

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30VDC	125VAC			1	25	50	100	
16C	DPDT	1.5DC	16	93.8	2	0.5	SMD Mount 2 Coil Latching	255-2275-5-ND	3.97	3.65	3.24	2.76	TQ2SL-L2-1.5V
		4.5DC	145	31	2	0.5		255-2277-5-ND	3.97	3.65	3.24	2.76	TQ2SL-L2-4.5V
		5DC	178	28.1	2	0.5		255-2278-5-ND	3.97	3.65	3.24	2.76	TQ2SL-L2-5V
		12DC	1,028	11.7	2	0.5		255-2274-5-ND	3.97	3.65	3.24	2.76	TQ2SL-L2-12V
		24DC	2,880	8.3	2	0.5		255-2276-5-ND	4.43	4.08	3.62	3.08	TQ2SL-L2-24V
		1.5DC	16	93.8	2	0.5	SMD Mount 2 Coil Latching	255-2286-5-ND	3.97	3.65	3.24	2.76	TQ2SS-L2-1.5V
		3DC	64.3	46.7	2	0.5		255-2288-5-ND	3.97	3.65	3.24	2.76	TQ2SS-L2-3V
		5DC	178	28.1	2	0.5		255-2289-5-ND	3.97	3.65	3.24	2.76	TQ2SS-L2-5V
		5DC	178	28.1	2	0.5		255-2289-2-ND†	1215.00/500				TQ2SS-L2-5V-X
		12DC	1,028	11.7	2	0.5		255-2285-5-ND	3.97	3.65	3.24	2.76	TQ2SS-L2-12V
		24DC	2,880	8.3	2	0.5		255-2287-5-ND	4.43	4.08	3.62	3.08	TQ2SS-L2-24V
TX Series Low Signal Relays													
17A	DPDT	3DC	64.3	46.7	2	0.5	PC Mount Self Clinch Term.	255-2294-5-ND	3.09	2.84	2.52	2.15	TX2-H-3V
		4.5DC	145	31	2	0.5		255-1894-ND	3.09	2.84	2.52	2.15	TX2-H-4.5V
		5DC	178	28.1	2	0.5		255-2295-5-ND	3.09	2.84	2.52	2.15	TX2-H-5V
		12DC	1,028	11.7	2	0.5		255-2292-5-ND	3.09	2.84	2.52	2.15	TX2-H-12V
		24DC	4,114	5.8	2	0.5		255-2293-5-ND	3.65	3.36	2.98	2.54	TX2-H-24V
		3DC	64.3	46.7	2	0.5	PC Mount Non-Latching	255-1893-ND	3.09	2.84	2.52	2.15	TX2-3V
		4.5DC	145	31	2	0.5		255-1781-5-ND	3.09	2.84	2.52	2.15	TX2-4.5V
		5DC	178	28.1	2	0.5		255-1031-5-ND	3.09	2.84	2.52	2.15	TX2-5V
		9DC	579	15.5	2	0.5		255-2291-5-ND	3.09	2.84	2.52	2.15	TX2-9V
		12DC	1,028	11.7	2	0.5		255-1032-5-ND	3.09	2.84	2.52	2.15	TX2-12V
		24DC	4,114	5.8	2	0.5		255-1033-5-ND	3.65	3.36	2.98	2.54	TX2-24V
		48DC	8,533	5.6	2	0.5		255-1494-5-ND	4.75	4.37	3.88	3.30	TX2-48V
17B	DPDT	3DC	90	33.3	2	0.5	PC Mount 1 Coil Latching	255-2297-5-ND	3.65	3.36	2.98	2.54	TX2-L-3V
		5DC	250	20	2	0.5		255-2298-5-ND	3.65	3.36	2.98	2.54	TX2-L-5V
		9DC	810	11.1	2	0.5		255-2299-5-ND	3.65	3.36	2.98	2.54	TX2-L-9V
		24DC	5,760	4.2	2	0.5	PC Mount 1 Coil Latching	255-2296-5-ND	4.19	3.85	3.42	2.91	TX2-L-24V-1
17C	DPDT	4.5DC	101.2	44.5	2	—	PC Mount 2 Coil Latching	255-1784-5-ND	3.87	3.56	3.16	2.69	TX2-L2-4.5V
		5DC	125	40	2	—		255-1785-5-ND	3.87	3.56	3.16	2.69	TX2-L2-5V
		9DC	405	22.2	2	—		255-1786-5-ND	3.87	3.56	3.16	2.69	TX2-L2-9V
		12DC	720	16.7	2	—		255-1782-5-ND	3.87	3.56	3.16	2.69	TX2-L2-12V
		24DC	2,880	8.3	2	—		255-1783-5-ND	4.34	3.99	3.54	3.01	TX2-L2-24V
		5DC	125	40	2	—	PC Mount AgPd	255-2300-5-ND	3.87	3.56	3.16	2.69	TX2-L2-5V-1
18A	DPDT	3DC	64.3	46.7	2	0.5	SMD Mount Non-Latching	255-1787-5-ND	3.19	2.93	2.60	2.21	TX2SA-3V
		3DC	64.3	46.7	2	0.5		255-1787-2-ND†	975.00/500				TX2SA-3V-Z
		4.5DC	145	31	2	0.5		255-1788-5-ND	3.19	2.93	2.60	2.21	TX2SA-4.5V
		4.5DC	145	31	2	0.5		255-1788-2-ND†	975.00/500				TX2SA-4.5V-Z
		5DC	178	28.1	2	0.5		255-1034-5-ND	3.19	2.93	2.60	2.21	TX2SA-5V
		5DC	178	28.1	2	0.5		255-2301-2-ND†	975.00/500				TX2SA-5V-X
		5DC	178	28.1	2	0.5		255-2302-2-ND†	975.00/500				TX2SA-5V-Z
		12DC	1,028	11.7	2	0.5		255-1035-5-ND	3.19	2.93	2.60	2.21	TX2SA-12V
		12DC	1,028	11.7	2	0.5		255-1035-2-ND†	975.00/500				TX2SA-12V-Z
		24DC	4,114	5.8	2	0.5		255-1036-5-ND	3.77	3.47	3.08	2.62	TX2SA-24V
		24DC	4,114	5.8	2	0.5		255-1036-2-ND†	1155.00/500				TX2SA-24V-Z
18A	DPDT	3DC	64.3	46.7	2	—	SMD Mount Non-Latching	255-2311-5-ND	3.19	2.93	2.60	2.21	TX2SL-3V
		3DC	64.3	46.7	2	—		255-2311-2-ND†	975.00/500				TX2SL-3V-Z
		4.5DC	145	31	2	—		255-2312-5-ND	3.19	2.93	2.60	2.21	TX2SL-4.5V
		4.5DC	145	31	2	—		255-2312-2-ND†	975.00/500				TX2SL-4.5V-Z
		5DC	178	28.1	2	—		255-2313-5-ND	3.19	2.93	2.60	2.21	TX2SL-5V
		5DC	178	28.1	2	—		255-2313-2-ND†	975.00/500				TX2SL-5V-Z
		12DC	1,028	11.7	2	—		255-2309-5-ND	3.19	2.93	2.60	2.21	TX2SL-12V
		24DC	4,114	5.8	2	—		255-2310-5-ND	3.77	3.47	3.08	2.62	TX2SL-24V
		24DC	4,114	5.8	2	—		255-2310-2-ND†	1155.00/500				TX2SL-24V-Z
		3DC	64.3	46.7	2	—	SMD Mount Non-Latching	255-2316-5-ND	3.19	2.93	2.60	2.21	TX2SS-3V
		4.5DC	145	31	2	—		255-2318-5-ND	3.19	2.93	2.60	2.21	TX2SS-4.5V
		4.5DC	145	31	2	—		255-2318-2-ND†	975.00/500				TX2SS-4.5V-Z
		5DC	178	28.1	2	—		255-2319-5-ND	3.19	2.93	2.60	2.21	TX2SS-5V
		12DC	1,028	11.7	2	—		255-2314-5-ND	3.19	2.93	2.60	2.21	TX2SS-12V
		24DC	4,114	5.8	2	—		255-2315-5-ND	3.77	3.47	3.08	2.62	TX2SS-24V
		48DC	8,533	5.6	2	—		255-2317-5-ND	4.90	4.50	4.00	3.40	TX2SS-48V
18B	DPDT	4.5DC	202.5	22.2	2	0.5	SMD Mount 1 Coil Latching	255-2304-2-ND†	1155.00/500				TX2SA-L-4.5V-Z
		24DC	5,760	4.2	2	0.5		255-2303-5-ND	4.29	3.94	3.50	2.98	TX2SA-L-24V
18C	DPDT	1.5DC	11.2	133.9	2	—	SMD Mount 2 Coil Latching	255-2305-5-ND	3.97	3.65	3.24	2.76	TX2SA-L2-1.5V
		3DC	45	66.7	2	—		255-2306-5-ND	3.97	3.65	3.24	2.76	TX2SA-L2-3V
		4.5DC	101.2	44.5	2	—		255-2307-5-ND	4.68	4.30	3.82	3.25	TX2SA-L2-4.5V
		5DC	125	40	2	—		255-1790-5-ND	3.97	3.65	3.24	2.76	TX2SA-L2-5V
		5DC	125	40	2	—		255-1790-2-ND†	1215.00/500				TX2SA-L2-5V-Z
		6DC	180	33.3	2	—		255-2308-5-ND	3.97	3.65	3.24	2.76	TX2SA-L2-6V
		6DC	180	33.3	2	—		255-2308-2-ND†	1147.50/500				TX2SA-L2-6V-X
		12DC	720	16.7	2	—		255-1495-5-ND	3.97	3.65	3.24	2.76	TX2SA-L2-12V
		24DC	2,880	8.3	2	—		255-1789-5-ND	4.43	4.08	3.62	3.08	TX2SA-L2-24V

Fig. 15 — *TQ Series – PCB*

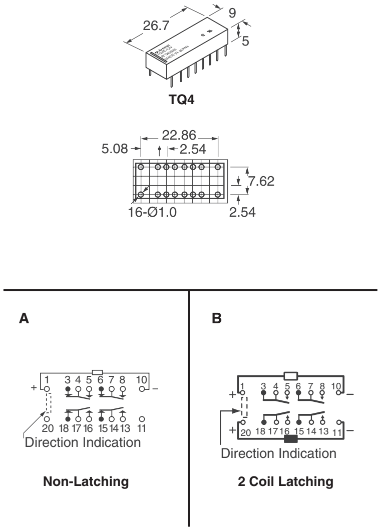

Non-Latching

2 Coil Latching

Fig. 16 — *TQ Series – SMD*

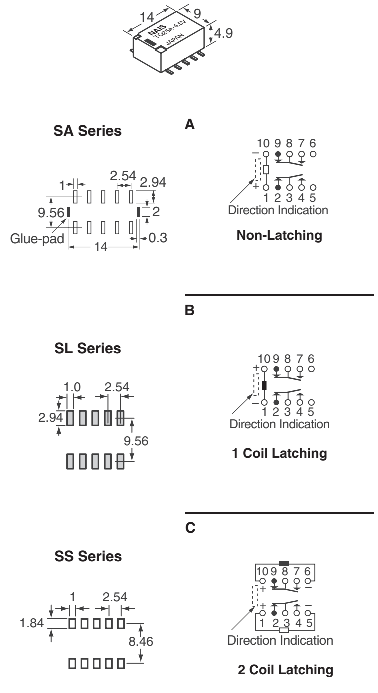

Non-Latching

1 Coil Latching

2 Coil Latching

† Tape and Reel

(Continued)

Fig. 17 —
TX Series – PCB

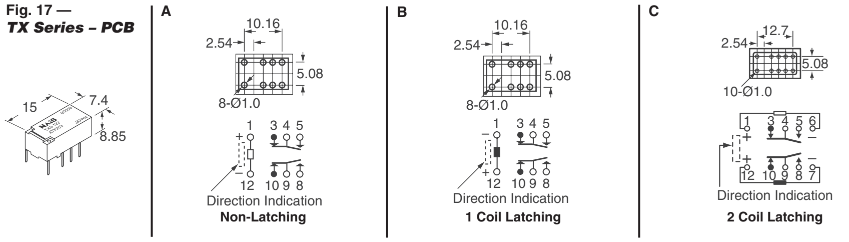

A: **Non-Latching**
B: **1 Coil Latching**
C: **2 Coil Latching**

Fig. 18 — *TX and TXS Series – SMD*

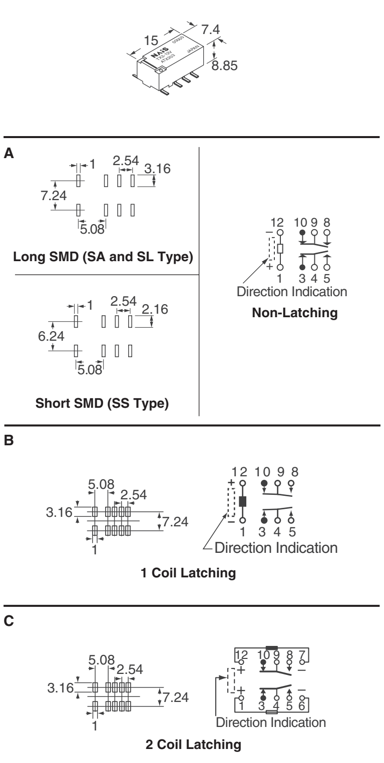

A: **Long SMD (SA and SL Type)** · **Short SMD (SS Type)** · **Non-Latching**
B: **1 Coil Latching**
C: **2 Coil Latching**

Fig. 19 — *TXD Series*

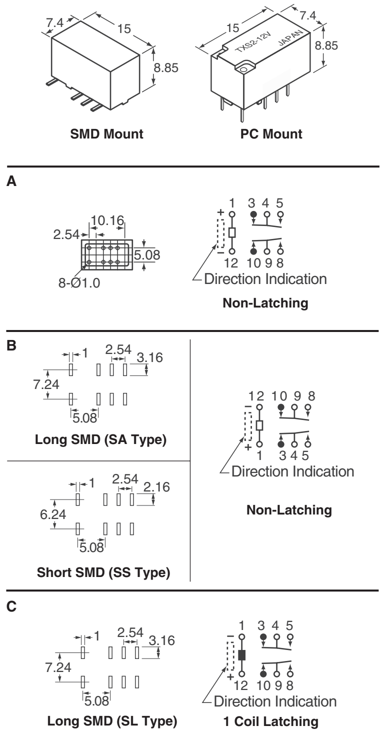

SMD Mount · **PC Mount**
A: **Non-Latching**
B: **Long SMD (SA Type)** · **Short SMD (SS Type)** · **Non-Latching**
C: **Long SMD (SL Type)** · **1 Coil Latching**

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A) 30VDC	Contact Ratings (A) 125VAC	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
TXS Series High Sensitivity Relays													
17A	DPDT	4.5DC	405	11.1	1	—	PC Mount Self Clinch Term.	255-1897-ND	3.87	3.56	3.16	2.69	TXS2-H-4.5V
		3DC	180	16.7	1	—	PC Mount Non-Latching	255-1988-ND	3.87	3.56	3.16	2.69	TXS2-3VS
		4.5DC	405	11.1	1	—		255-1896-ND	3.87	3.56	3.16	2.69	TXS2-4.5V
		6DC	720	8.3	1	—		255-2335-5-ND	3.87	3.56	3.16	2.69	TXS2-6V
		9DC	1,620	5.6	1	—		255-2336-5-ND	3.87	3.56	3.16	2.69	TXS2-9V
		12DC	2,880	4.2	1	—		255-1895-ND	3.87	3.56	3.16	2.69	TXS2-12V
		24DC	8,229	2.9	1	—		255-2334-5-ND	4.56	4.19	3.72	3.17	TXS2-24V
17B	DPDT	3DC	257	11.7	1	—	PC Mount 1 Coil Latching	255-1899-ND	4.41	4.05	3.60	3.06	TXS2-L-3V
		4.5DC	579	7.8	1	—		255-1900-ND	4.41	4.05	3.60	3.06	TXS2-L-4.5V
		12DC	4,114	2.9	1	—		255-1898-ND	4.41	4.05	3.60	3.06	TXS2-L-12V
17C	DPDT	3DC	129	23.3	1	—	PC Mount 2 Coil Latching	255-2339-5-ND	4.56	4.19	3.72	3.17	TXS2-L2-3V
		4.5DC	289	15.6	1	—		255-2340-5-ND	4.56	4.19	3.72	3.17	TXS2-L2-4.5V
		12DC	2,057	5.8	1	—		255-2337-5-ND	4.56	4.19	3.72	3.17	TXS2-L2-12V
		24DC	3,840	6.3	1	—		255-2338-5-ND	4.56	4.19	3.72	3.17	TXS2-L2-24V
18A	DPDT	3DC	180	16.7	1	—	SMD Mount Non-Latching	255-2341-5-ND	3.97	3.65	3.24	2.76	TXS2SA-3V
		3DC	180	16.7	1	—		255-2341-2-ND†		1215.00/500			TXS2SA-3V-Z
		4.5DC	405	11.1	1	—		255-1393-5-ND	3.97	3.65	3.24	2.76	TXS2SA-4.5V
		4.5DC	405	11.1	1	—		255-1393-2-ND†		1215.00/500			TXS2SA-4.5V-Z
		6DC	720	8.3	1	—		255-1901-ND	3.97	3.65	3.24	2.76	TXS2SA-6V
		9DC	1,620	5.6	1	—		255-1902-ND	3.97	3.65	3.24	2.76	TXS2SA-9V
		12DC	2,880	4.2	1	—		255-1394-5-ND	3.97	3.65	3.24	2.76	TXS2SA-12V
		12DC	2,880	4.2	1	—		255-1394-2-ND†		1215.00/500			TXS2SA-12V-Z
		24DC	8,229	2.9	1	—		255-1395-5-ND	4.70	4.32	3.84	3.27	TXS2SA-24V
		24DC	8,229	2.9	1	—		255-1395-2-ND†		1440.00/500			TXS2SA-24V-Z
18A	DPDT	3DC	180	16.7	1	—	Long SMD Non-Latching	255-2351-5-ND	3.97	3.65	3.24	2.76	TXS2SL-3V
		3DC	180	16.7	1	—		255-2351-2-ND†		1215.00/500			TXS2SL-3V-Z
		4.5DC	405	11.1	1	—		255-2352-5-ND	3.97	3.65	3.24	2.76	TXS2SL-4.5V
		4.5DC	405	11.1	1	—		255-2352-2-ND†		1215.00/500			TXS2SL-4.5V-Z
		12DC	2,880	4.2	1	—		255-2349-5-ND	3.97	3.65	3.24	2.76	TXS2SL-12V
		12DC	2,880	4.2	1	—		255-2349-2-ND†		1215.00/500			TXS2SL-12V-Z
		24DC	8,229	2.9	1	—		255-2350-5-ND	4.68	4.30	3.82	3.25	TXS2SL-24V
		24DC	8,229	2.9	1	—		255-2350-2-ND†		1432.50/500			TXS2SL-24V-Z
		1.5DC	45	33.3	1	—	Short SMD Non-Latching	255-2354-5-ND	3.97	3.65	3.24	2.76	TXS2SS-1.5V
		1.5DC	45	33.3	1	—		255-2355-2-ND†		1215.00/500			TXS2SS-1.5V-X
		1.5DC	45	33.3	1	—		255-2356-2-ND†		1215.00/500			TXS2SS-1.5V-Z
		3DC	180	16.7	1	—		255-2358-5-ND	3.97	3.65	3.24	2.76	TXS2SS-3V
		3DC	180	16.7	1	—		255-2358-2-ND†		1215.00/500			TXS2SS-3V-Z
		4.5DC	405	11.1	1	—		255-2359-5-ND	3.97	3.65	3.24	2.76	TXS2SS-4.5V
		4.5DC	405	11.1	1	—		255-2359-2-ND†		1215.00/500			TXS2SS-4.5V-Z
		12DC	2,880	4.2	1	—		255-2353-5-ND	3.97	3.65	3.24	2.76	TXS2SS-12V
		12DC	2,880	4.2	1	—		255-2353-2-ND†		1215.00/500			TXS2SS-12V-Z
		24DC	8,229	2.9	1	—		255-2357-5-ND	4.70	4.32	3.84	3.27	TXS2SS-24V
		24DC	8,229	2.9	1	—		255-2357-2-ND†		1432.50/500			TXS2SS-24V-Z
18B	DPDT	4.5DC	579	7.8	1	—	SMD Mount 1 Coil Latching	255-2343-5-ND	4.51	4.14	3.68	3.13	TXS2SA-L-4.5V
		4.5DC	579	7.8	1	—		255-2343-2-ND†		1215.00/500			TXS2SA-L-4.5V-Z
		24DC	11,520	2.1	1	—		255-2342-5-ND	5.05	4.64	4.12	3.51	TXS2SA-L-24V
		24DC	11,520	2.1	1	—		255-2342-2-ND†		1545.00/500			TXS2SA-L-24V-Z
18C	DPDT	3DC	129	23.3	1	—	SMD Mount 2 Coil Latching	255-2347-5-ND	4.70	4.32	3.84	3.27	TXS2SA-L2-3V
		3DC	129	23.3	1	—		255-2347-2-ND†		1440.00/500			TXS2SA-L2-3V-Z
		4.5DC	289	15.6	1	—		255-2348-5-ND	4.70	4.32	3.84	3.27	TXS2SA-L2-4.5V
		4.5DC	289	15.6	1	—		255-2348-2-ND†		1440.00/500			TXS2SA-L2-4.5V-Z
		12DC	2,057	5.8	1	—		255-2345-5-ND	4.70	4.32	3.84	3.27	TXS2SA-L2-12V
		12DC	2,057	5.8	1	—		255-2345-2-ND†		1440.00/500			TXS2SA-L2-12V-Z
		24DC	3,840	6.3	1	—		255-2346-5-ND	5.32	4.89	4.34	3.69	TXS2SA-L2-24V
		24DC	3,840	6.3	1	—		255-2346-2-ND†		1627.50/500			TXS2SA-L2-24V-Z
TXD Series Telecom Relays													
19A	DPDT	3DC	45	66.7	2	—	PC Mount Non-Latching	255-2322-5-ND	3.97	3.65	3.24	2.76	TXD2-3V
		4.5DC	101	44.4	2	—		255-2323-5-ND	3.97	3.65	3.24	2.76	TXD2-4.5V
		5DC	125	40.0	2	—		255-2324-5-ND	3.97	3.65	3.24	2.76	TXD2-5V
		12DC	720	16.7	2	—		255-2320-5-ND	3.97	3.65	3.24	2.76	TXD2-12V
		24DC	2,504	9.6	2	—		255-2321-5-ND	4.51	4.14	3.68	3.13	TXD2-24V
19B	DPDT	5DC	125	40.0	2	—	Long SMD Non-Latching	255-2327-5-ND	4.09	3.76	3.34	2.84	TXD2SA-5V
		5DC	125	40.0	2	—		255-2327-2-ND†		1252.50/500			TXD2SA-5V-Z
		12DC	720	16.7	2	—		255-2325-5-ND	4.09	3.76	3.34	2.84	TXD2SA-12V
		12DC	720	16.7	2	—		255-2325-2-ND†		1252.50/500			TXD2SA-12V-Z
		24DC	2,504	9.6	2	—		255-2326-5-ND	4.68	4.30	3.82	3.25	TXD2SA-24V
19B	DPDT	5DC	125	40.0	2	—	Short SMD Non-Latching	255-2333-5-ND	4.09	3.76	3.34	2.84	TXD2SS-5V
		5DC	125	40.0	2	—		255-2333-2-ND†		1252.50/500			TXD2SS-5V-Z
		12DC	720	16.7	2	—		255-2331-5-ND	4.09	3.76	3.34	2.84	TXD2SS-12V
		12DC	720	16.7	2	—		255-2331-2-ND†		1252.50/500			TXD2SS-12V-Z
		24DC	2,504	9.6	2	—		255-2332-5-ND	4.68	4.30	3.82	3.25	TXD2SS-24V
		24DC	2,504	9.6	2	—		255-2332-2-ND†		1432.50/500			TXD2SS-24V-Z
19C	DPDT	5DC	166	30.0	2	—	Long SMD 1 Coil Latching	255-2330-5-ND	4.61	4.23	3.76	3.20	TXD2SL-L-5V
		5DC	166	30.0	2	—		255-2330-2-ND†		1410.00/500			TXD2SL-L-5V-Z
		12DC	960	12.5	2	—		255-2328-5-ND	4.61	4.23	3.76	3.20	TXD2SL-L-12V
		12DC	960	12.5	2	—		255-2328-2-ND†		1410.00/500			TXD2SL-L-12V-Z
		24DC	3,388	7.1	2	—		255-2329-5-ND	5.05	4.64	4.12	3.51	TXD2SL-L-24V
		24DC	3,388	7.1	2	—		255-2329-2-ND†		1545.00/500			TXD2SL-L-24V-Z

† Tape and Reel

Power Relays

Dim. in mm

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	Contact Ratings (A) 125 VAC	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
DK Series General Purpose Relays													
1A	SPST-NO	3DC	45	66.6	10	10	AgSnO Sealed	255-2057-ND	8.04	7.38	6.56	5.58	DK1A-3V-F
		5DC	125	40	10	10		255-2058-ND	8.04	7.38	6.56	5.58	DK1A-5V-F
		12DC	720	16.6	10	10		255-2059-ND	8.04	7.38	6.56	5.58	DK1A-12V-F
		24DC	2,880	8.3	10	10		255-2060-ND	8.04	7.38	6.56	5.58	DK1A-24V-F
1B	2x SPST	5DC	125	40	8	8	AgCd	255-1098-ND	11.81	10.85	9.64	8.20	DK1A1B-5V
		6DC	180	33.3	8	8		255-2188-ND	11.81	10.85	9.64	8.20	DK1A1B-6V
		12DC	720	16.6	8	8		255-1099-ND	11.81	10.85	9.64	8.20	DK1A1B-12V
		24DC	2,880	8.3	8	8		255-1100-ND	11.81	10.85	9.64	8.20	DK1A1B-24V
1B	DPST	5DC	125	40	8	8	AgCd	255-1601-ND	11.76	10.80	9.60	8.16	DK2A-5V
		6DC	180	33.3	8	8		255-2379-ND	11.81	10.85	9.64	8.20	DK2A-6V
		12DC	720	16.6	8	8		255-1599-ND	11.81	10.85	9.64	8.20	DK2A-12V
		24DC	2,880	8.3	8	8		255-1600-ND	11.81	10.85	9.64	8.20	DK2A-24V
DK Series Latching General Purpose Relays													
1C	SPST-NO	3DC	45	66.6	10	10	AgSno Sealed	255-2374-ND	8.04	7.38	6.56	5.58	DK1A-L-3V-F
		5DC	125	40	10	10		255-2375-ND	8.04	7.38	6.56	5.58	DK1A-L-5V-F
		12DC	720	16.6	10	10		255-2376-ND	8.04	7.38	6.56	5.58	DK1A-L-12V-F
		3DC	45	66.6	10	10		255-2053-ND	10.29	9.45	8.40	7.14	DK1A-L2-3V-F
		5DC	125	40	10	10		255-2054-ND	10.29	9.45	8.40	7.14	DK1A-L2-5V-F
		6DC	180	33.3	10	10		255-2377-ND	10.29	9.45	8.40	7.14	DK1A-L2-6V-F
		9DC	405	22.2	10	10		255-2378-ND	10.29	9.45	8.40	7.14	DK1A-L2-9V-F
		12DC	720	16.6	10	10		255-2055-ND	10.29	9.45	8.40	7.14	DK1A-L2-12V-F
		24DC	2,880	8.3	10	10		255-2056-ND	10.29	9.45	8.40	7.14	DK1A-L2-24V-F
1D	2x SPST	5DC	125	40	8	8	Dual Coil Latching	255-2191-ND	14.14	12.99	11.54	9.81	DK1A1B-L2-5V
		12DC	720	16.6	8	8		255-2189-ND	14.14	12.99	11.54	9.81	DK1A1B-L2-12V
		24DC	2,880	8.3	8	8		255-2190-ND	16.07	14.76	13.12	11.16	DK1A1B-L2-24V
1D	DPST	24DC	2,880	8.3	8	8	Sealed	255-1603-ND	13.45	12.36	10.98	9.34	DK2A-L2-24V
PCB Mount Relay Socket for DK1A Relays								255-1101-ND	4.39	4.03	3.58	3.05	DK1A-PS
PCB Mount Relay Socket for DK1A1B and DK2A Relays								255-1102-ND	4.36	4.01	3.56	3.03	DK2A-PS
DSP Series General Purpose Relays													
2A	2x SPST	5DC	83	60	5	5	Sealed	255-1046-ND	7.62	7.00	6.22	5.29	DSP1-DC5V
		6DC	120	50	5	5		255-1622-ND	7.62	7.00	6.22	5.29	DSP1-DC6V
		9DC	270	33.3	5	5		255-1623-ND	7.62	7.00	6.22	5.29	DSP1-DC9V
		12DC	480	25	5	5		255-1047-ND	7.62	7.00	6.22	5.29	DSP1-DC12V
		24DC	1,920	12.5	5	5		255-1048-ND	7.62	7.00	6.22	5.29	DSP1-DC24V
		48DC	7,680	6.2	5	5		255-1621-ND	9.56	8.78	7.80	6.63	DSP1-DC48V
2B	SPST-NO	5DC	83	60	8	8	Sealed	255-1049-ND	6.76	6.21	5.52	4.70	DSP1A-DC5V
		12DC	480	25	8	8		255-1050-ND	6.76	6.21	5.52	4.70	DSP1A-DC12V
		24DC	1,920	12.5	8	8		255-1051-ND	6.76	6.21	5.52	4.70	DSP1A-DC24V
2C	DPST-NO	5DC	83	60	5	5	Sealed	255-1052-ND	7.47	6.87	6.10	5.19	DSP2A-DC5V
		12DC	480	25	5	5		255-1053-ND	7.47	6.87	6.10	5.19	DSP2A-DC12V
		24DC	1,920	12.5	5	5		255-1054-ND	7.47	6.87	6.10	5.19	DSP2A-DC24V
DSP Series Dual Coil Latching General Purpose Relays													
2D	DPST	5DC	83	60	5	5	Sealed	255-1055-ND	8.04	7.38	6.56	5.58	DSP1-L2-DC5V
		12DC	480	25	5	5		255-1056-ND	8.04	7.38	6.56	5.58	DSP1-L2-DC12V
		24DC	1,920	12.5	5	5		255-1057-ND	8.04	7.38	6.56	5.58	DSP1-L2-DC24V
2E	SPST	5DC	83	60	5	8	Sealed	255-1620-ND	7.62	7.00	6.22	5.29	DSP1A-L2-DC5V
		12DC	480	25.5	5	8		255-1618-ND	7.62	7.00	6.22	5.29	DSP1A-L2-DC12V
		24DC	1,920	12.5	5	8		255-1619-ND	7.62	7.00	6.22	5.29	DSP1A-L2-DC24V
2F	DPST	5DC	83	60	5	5	Sealed	255-1626-ND	8.35	7.68	6.82	5.80	DSP2A-L2-DC5V
		12DC	480	25.5	5	5		255-1624-ND	8.35	7.68	6.82	5.80	DSP2A-L2-DC12V
		24DC	1,920	12.5	5	5		255-1625-ND	8.35	7.68	6.82	5.80	DSP2A-L2-DC24V
PCB Mount Relay Socket for DSP1A Relays								255-1058-ND	2.79	2.57	2.28	1.94	DSP1A-PS
PCB Mount Relay Socket for DSP1A-L2 Relays								255-1059-ND	3.28	3.02	2.68	2.28	DSP1A-PSL2
PCB Mount Relay Socket for DSP2A and DSP1 Relays								255-1060-ND	3.85	3.54	3.14	2.67	DSP2A-PS
PCB Mount Relay Socket for DSP2A-L2 and DSP1-L2 Relays								255-1061-ND	4.12	3.78	3.36	2.86	DSP2A-PSL2
ADQ Series Power Dual Coil Latching Relays													
3	SPST	4.5DC	12.7	355.6	—	30	—	255-1442-ND	20.48	18.81	16.72	14.22	ADQ23Q04H
		12DC	90	133.3	—	30		255-1443-ND	20.48	18.81	16.72	14.22	ADQ23Q012
HC Series Miniature Power Relays													
4A	SPDT	12DC	160	75	—	10	Plug-In	255-1905-ND	7.45	6.84	6.08	5.17	HC1-H-DC12V
		24DC	650	37	—	10		255-1906-ND	7.45	6.84	6.08	5.17	HC1-H-DC24V
		24AC	—	50	—	10	PC Mount	255-1908-ND	7.47	6.87	6.10	5.19	HC1-HP-AC24V
		115AC	—	37	—	10		255-1907-ND	8.82	8.10	7.20	6.12	HC1-HP-AC115V
		115AC	—	37	—	10		255-1910-ND	12.25	11.25	10.00	8.50	HC1E-HP-AC115V
		24DC	650	37	—	10	PC Mount	255-1909-ND	7.45	6.84	6.08	5.17	HC1-HP-DC24V
4B	DPDT	115AC	—	11.9	7	7	Plug-In	255-1627-ND	10.07	9.25	8.22	6.99	HC2-H-AC115V
		240AC	—	6.5	—	7		255-2205-ND	11.74	10.78	9.58	8.15	HC2-H-AC240V
		12DC	160	75	7	7	Plug-In	255-1628-ND	8.82	8.10	7.20	6.12	HC2-H-DC12V
		24DC	650	37	7	7		255-1912-ND	8.82	8.10	7.20	6.12	HC2-H-DC24V
		24AC	35	25	3	7	Plug-In	255-1914-ND	12.69	11.66	10.36	8.81	HC2E-H-AC24V
		12DC	160	75	3	7	Plug-In	255-1915-ND	12.69	11.66	10.36	8.81	HC2E-H-DC12V
4B	DPDT	24AC	—	50	—	7	PC Mount	255-2206-ND	8.82	8.10	7.20	6.12	HC2-HP-AC24V
		115AC	—	11.9	3	7		255-1916-ND	14.28	13.12	11.66	9.92	HC2E-HP-AC115V
		24DC	650	37	3	7	PC Mount	255-1917-ND	12.69	11.66	10.36	8.81	HC2E-HP-DC24V
4C	3PDT	24AC	—	50	—	7	Plug-In	255-2207-ND	9.60	8.82	7.84	6.67	HC3-H-AC24V
		24DC	650	37	—	7	Plug-In	255-2208-ND	9.60	8.82	7.84	6.67	HC3-H-DC24V
		24DC	650	37	—	7	PC Mount	255-2209-ND	9.60	8.82	7.84	6.67	HC3-HP-DC24V

Fig. 1
DK Series – PCB

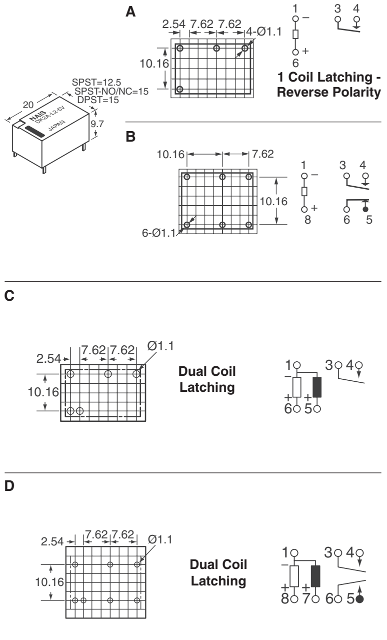

Fig. 2
DSP Series – PCB

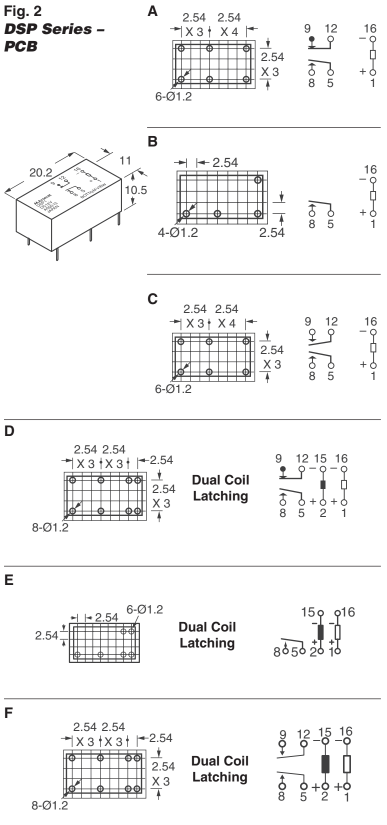

Fig. 3
ADQ Series

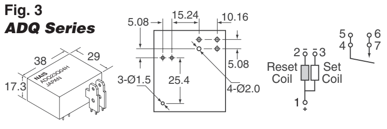

(Continued)

Power Relays *(Cont.)*

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30 VDC	125 VAC			1	25	50	100	
4D	4PDT	24DC	650	37	—	5	Plug-In	255-1631-ND	10.27	9.43	8.38	7.13	HC4-H-DC24V
4E	4PDT	115AC	—	11.9	—	5	Plug-In with LED	255-1918-ND	13.65	12.54	11.14	9.47	HC4-HL-AC115V
4F	4PDT	24DC	650	37	—	5	Plug-In with LED	255-1919-ND	14.36	13.19	11.72	9.97	HC4-HL-DC24V
4D	4PDT	115AC	—	11.9	—	5	PC Mount	255-1632-ND	11.59	10.65	9.46	8.05	HC4-HP-AC115V
		12DC	160	75	—	5		255-1920-ND	10.27	9.43	8.38	7.13	HC4-HP-DC12V
		24DC	650	37	—	5		255-1921-ND	10.27	9.43	8.38	7.13	HC4-HP-DC24V
		240AC	—	6.0	—	3	Sealed Plug-In	255-1922-ND	16.59	15.24	13.54	11.51	HC4D-H-AC240V
		24DC	650	37	—	2	PC Mount	255-2211-ND	14.50	13.32	11.84	10.07	HC4E-HP-DC24V
		48DC	2,600	18.5	—	2		255-1924-ND	14.50	13.32	11.84	10.07	HC4E-HP-DC48V
4F	4PDT	24DC	650	37	—	2	Sealed with LED	255-1925-ND	23.15	21.27	18.90	16.07	HC4E-L-DC24V
PC Board Socket with hold-down clip for SPDT HC1 Relays								255-1941-ND	1.42	1.31	1.16	.99	HC1-PS-K
PC Board Socket with hold-down clip for DPDT HC2 Series								255-1629-ND	1.49	1.38	1.22	1.04	HC2-PS-K
Din Rail Mount Screw Terminal Socket for HC2 Series								255-1630-ND	4.09	3.76	3.34	2.84	HC2-SF-K
Din Rail Socket Screw terminal with hold-down clip for HC2 Relay								255-1942-ND	1.42	1.31	1.16	.99	HC2-SFD-K
Socket Screw terminal with hold-down clip for Slim HC2 Relay								255-1943-ND	4.34	3.99	3.54	3.01	HC2-SFD-S
Socket Solder Tab with hold-down clip for HC2 Relay								255-1944-ND	1.25	1.15	1.02	.87	HC2-SS-K
PC Board Socket with hold-down clip for 3PDT HC3 Relays								255-2210-ND	1.57	1.44	1.28	1.09	HC3-PS-K
Din Rail Mount Screw Terminal Socket for 3PDT HC3 Series								255-1840-ND	6.13	5.63	5.00	4.25	HC3-SFD-K
PC Board Socket with hold-down clip for 4PDT HC4 Series								255-1633-ND	1.72	1.58	1.40	1.19	HC4-PS-K
Din Rail Mount Screw Terminal Socket for 4PDT HC4 Series								255-1841-ND	7.15	6.57	5.84	4.97	HC4-SFD-K
HE Series Power Relays													
5A	SPST	24AC	300	74	—	30	QC Terminal	255-1640-ND	20.68	18.99	16.88	14.35	HE1AN-AC24V
		120AC	5,200	22.1	—	30		255-1638-ND	20.68	18.99	16.88	14.35	HE1AN-AC120V
		240AC	20,800	10.8	—	30		255-1639-ND	20.68	18.99	16.88	14.35	HE1AN-AC240V
		12DC	75	160	—	30	QC Terminal	255-1641-ND	17.22	15.82	14.06	11.96	HE1AN-DC12V
		24DC	300	80	—	30		255-1642-ND	17.22	15.82	14.06	11.96	HE1AN-DC24V
		120AC	5,200	22.1	—	30	Screw Terminal	255-1651-ND	26.53	24.37	21.66	18.42	HE1AN-S-AC120V
		240AC	20,800	22.1	—	30		255-1652-ND	26.53	24.37	21.66	18.42	HE1AN-S-AC240V
		12DC	75	160	—	30	Screw Terminal	255-1653-ND	24.67	22.66	20.14	17.12	HE1AN-S-DC12V
		24DC	300	80	—	30		255-1654-ND	24.67	22.66	20.14	17.12	HE1AN-S-DC24V
5A	SPST	12DC	75	160	—	30	Screw Terminal with Wide Pitch	255-1657-ND	21.00	19.29	17.14	14.57	HE1AN-SW-DC24V
		24DC	300	80	—	30							
5A	SPST	120AC	5,200	22.1	—	30	NEMA Terminal	255-1646-ND	20.68	18.99	16.88	14.35	HE1AN-Q-AC120V
		240AC	20,800	10.8	—	30		255-1647-ND	20.68	18.99	16.88	14.35	HE1AN-Q-AC240V
		12DC	75	160	—	30	NEMA Terminal	255-1648-ND	17.22	15.82	14.06	11.96	HE1AN-Q-DC12V
		24DC	300	80	—	30		255-1649-ND	17.22	15.82	14.06	11.96	HE1AN-Q-DC24V
		48DC	1,200	40	—	30		255-1650-ND	17.22	15.82	14.06	11.96	HE1AN-Q-DC48V
5B	DPST	120AC	5,200	22.1	—	25	QC Terminal	255-1658-ND	21.76	19.98	17.76	15.10	HE2AN-AC120V
		240AC	20,800	10.8	—	25		255-1485-ND	21.76	19.98	17.76	15.10	HE2AN-AC240V
		12DC	75	160	—	25	QC Terminal	255-1659-ND	18.15	16.68	14.82	12.60	HE2AN-DC12V
		24DC	300	80	—	25		255-1660-ND	18.15	16.68	14.82	12.60	HE2AN-DC24V
		48DC	1,200	40	—	25		255-1661-ND	18.15	16.68	14.82	12.60	HE2AN-DC48V
		120AC	5,200	22.1	—	25	Screw Terminal	255-1667-ND	27.37	25.14	22.34	18.99	HE2AN-S-AC120V
		240AC	20,800	10.8	—	25		255-1668-ND	27.37	25.14	22.34	18.99	HE2AN-S-AC240V
		12DC	75	160	—	25	Screw Terminal	255-1669-ND	25.60	23.52	20.90	17.77	HE2AN-S-DC12V
		24DC	300	80	—	25		255-1670-ND	25.60	23.52	20.90	17.77	HE2AN-S-DC24V
5B	DPST	12DC	75	160	—	25	Screw Terminal with Wide Pitch	255-1673-ND	24.89	22.86	20.32	17.28	HE2AN-SW-DC12V
5B	DPST	240AC	20,800	10.8	—	25	NEMA Terminal	255-1486-ND	21.76	19.98	17.76	15.10	HE2AN-Q-AC240V
		12DC	75	160	—	25	NEMA Terminal	255-1664-ND	18.15	16.68	14.82	12.60	HE2AN-Q-DC12V
HJ Series General Purpose Power Relays													
6A	DPDT	24DC	650	37	—	7	—	255-1679-ND	5.07	4.66	4.14	3.52	HJ2-DC24V
6B	4PDT	240AC	—	6.4	—	5	—	255-1686-ND	6.93	6.37	5.66	4.82	HJ4-AC240V
		12DC	160	75	—	5	—	255-1687-ND	5.22	4.80	4.26	3.63	HJ4-DC12V
6C	4PDT	120AC	—	10.3	—	5	With LED	255-1689-ND	7.01	6.44	5.72	4.87	HJ4-L-AC120V
		240AC	—	6.4	—	5		255-1690-ND	7.74	7.11	6.32	5.38	HJ4-L-AC240V
6D	4PDT	12DC	160	75	—	5	With LED	255-1691-ND	5.93	5.45	4.84	4.12	HJ4-L-DC12V
		24DC	650	37	—	5		255-1692-ND	6.13	5.63	5.00	4.25	HJ4-L-DC24V
Din Rail Mount Screw Terminal Socket for DPDT HJ2 Series								255-1838-ND	3.33	3.06	2.72	2.32	HJ2-SFD-S
Din Rail Mount Screw Terminal Socket for 4PDT HJ4 Series								255-1839-ND	4.58	4.21	3.74	3.18	HJ4-SFD-S
HG Series Relays													
7	DPDT	12DC	100	119.6	—	20	Plug-In	255-2213-ND	25.63	23.54	20.92	17.79	HG2-DC12V
HL Series Relays													
8	DPDT	24AC	—	50	10	10	Plug-In	255-2214-ND	9.63	8.85	7.86	6.69	HL2-H-AC24V
		12DC	160	75	10	10	PC Mount	255-2216-ND	9.63	8.85	7.86	6.69	HL2-HP-DC12V
		24DC	650	37	10	10		255-2217-ND	9.63	8.85	7.86	6.69	HL2-HP-DC24V
		110DC	10,000	10	10	10		255-2215-ND	11.07	10.17	9.04	7.69	HL2-HP-DC110V
PCB Mount Socket for SP/DP Plug-In Relays								255-2218-ND	1.62	1.49	1.32	1.13	HL2-PS-K
AHN Series Slim and Compact Relays													
9	DPDT	12DC	270	44.2	5	5	—	255-1509-ND	5.27	4.84	4.30	3.66	AHN22012
		24DC	1,090	22.1	5	5		255-1510-ND	5.46	5.02	4.46	3.80	AHN22024
		24AC	—	46.5	5	5		255-1861-ND	5.59	5.13	4.56	3.88	AHN21024
		120AC	—	9.7	5	5		255-1506-ND	6.15	5.65	5.02	4.27	AHN210X1

Fig. 4
HC Series– PCB

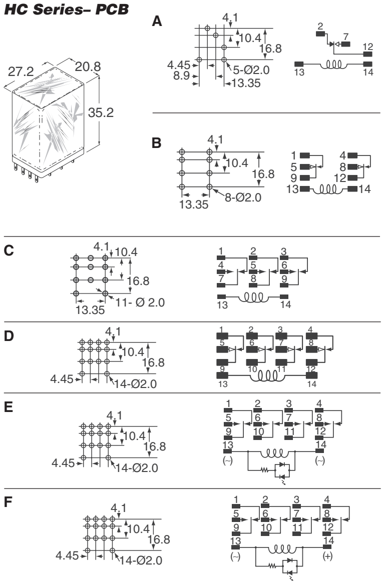

Fig. 5
HE Series

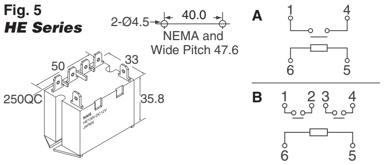

Fig. 6
HJ Series – PCB

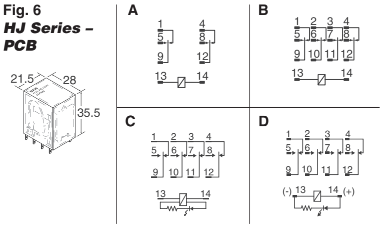

Fig. 7 ***HG Series***

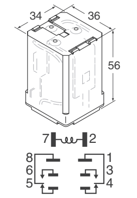

Fig. 8 ***HL Series***

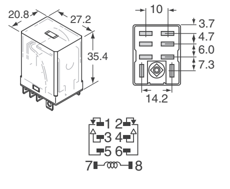

Fig. 9
AHN Series

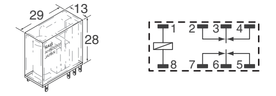

Fig. 10
JC Series

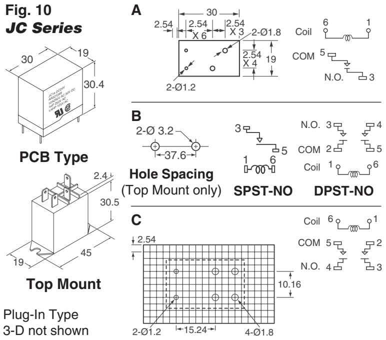

(Continued)

Power Relays *(Cont.)*

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	Contact Ratings (A) 125 VAC	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
9	DPDT	220AC	—	5.0	5	5	—	255-1862-ND	7.23	6.64	5.90	5.02	AHN210Y2
		12DC	270	44.2	5	5	With LED	255-1512-ND	6.25	5.74	5.10	4.34	AHN22112
Screw Terminal Socket - DIN Rail Type for AHN Relays								255-1802-ND	5.46	5.02	4.46	3.80	AHNA21
JC Series Compact Power PCB Relays													
10	SPST-NO	5DC	40	425	15	15	TV-8 Inrush AgSnO$_2$	255-2380-ND	5.56	5.11	4.54	3.86	JC1AF-DC5V-F
		12DC	160	75	15	15		255-2381-ND	6.13	5.63	5.00	4.25	JC1AF-DC12V-F
		24DC	640	37.5	15	15		255-2382-ND	6.13	5.63	5.00	4.25	JC1AF-DC24V-F
10C	DPST-NO	5DC	36	138.8	10	10	TV-5 Inrush AgSnO$_2$	255-2383-ND	3.58	3.29	2.92	2.49	JC2AF-DC5V-F
		6DC	36	166.6	10	10		255-2384-ND	7.11	6.53	5.80	4.93	JC2AF-DC6V-F
		12DC	144	83.3	10	10		255-2385-ND	7.11	6.53	5.80	4.93	JC2AF-DC12V-F
		24DC	576	41.6	10	10		255-2386-ND	7.11	6.53	5.80	4.93	JC2AF-DC24V-F
JC Series Compact Power Relays													
10B	DPST-NO	6DC	36	166.6	10	10	TV-5 Inrush	255-2365-ND	7.11	6.53	5.80	4.93	JC2AF-S-DC6V-F
		12DC	144	83.3	10	10	Plug-In	255-2366-ND	7.11	6.53	5.80	4.93	JC2AF-S-DC12V-F
		24DC	576	41.6	10	10	AgSnO$_2$	255-2367-ND	7.11	6.53	5.80	4.93	JC2AF-S-DC24V-F
		12DC	144	83.3	10	10	TV-5 Inrush Top Mount AgSnO$_2$	255-2387-ND	7.11	6.53	5.80	4.93	JC2AF-TM-DC12V-F
		24DC	576	41.6	10	10		255-2388-ND	7.11	6.53	5.80	4.93	JC2AF-TM-DC24V-F
JK Series Slim High Capacity Power Relays													
11	SPST	5DC	125	40	5	8	—	255-1371-ND	3.16	2.91	2.58	2.20	JK1AP-5V
		12DC	720	17	5	8		255-1372-ND	3.45	3.18	2.82	2.40	JK1AP-12V
JM Series Power Relays													
12	SPST-NO	5DC	27.8	180	20	20	—	255-1122-ND	5.24	4.82	4.28	3.64	JM1AN-TMP-DC5V
		12DC	160	75	20	20		255-1123-ND	5.24	4.82	4.28	3.64	JM1AN-TMP-DC12V
		24DC	640	37.5	20	20		255-1124-ND	5.24	4.82	4.28	3.64	JM1AN-TMP-DC24V
JJM Automotive Relays													
13	SPDT	12DC	225	53.3	20	—	Sealed Case	255-2220-ND	2.57	2.37	2.10	1.79	JJM1-12V
JQ Series High Noise Immunity Power Relays													
14A	SPDT	5DC	62.5	80	5	5	AgCd	255-1263-ND	3.58	3.29	2.92	2.49	JQ1-5V
		12DC	360	33.3	5	5		255-1264-ND	3.58	3.29	2.92	2.49	JQ1-12V
		24DC	1,440	16.7	5	5		255-1265-ND	3.58	3.29	2.92	2.49	JQ1-24V
14B	SPST	5DC	125	40	5	5	AgCd	255-1463-ND	3.26	3.00	2.66	2.27	JQ1A-5V
		12DC	720	16.7	5	5		255-1464-ND	3.26	3.00	2.66	2.27	JQ1A-12V
		24DC	2,880	8.3	5	5		255-1465-ND	3.26	3.00	2.66	2.27	JQ1A-24V
		5DC	125	40	5	10	AgCd High Capacity	255-1703-ND	3.58	3.29	2.92	2.49	JQ1AP-5V
		12DC	720	16.7	5	10		255-1701-ND	3.58	3.29	2.92	2.49	JQ1AP-12V
		24DC	2,880	8.3	5	10		255-1702-ND	3.58	3.29	2.92	2.49	JQ1AP-24V
14A	SPDT	5DC	62.5	80	5	10	AgCd High Capacity	255-1933-ND	3.92	3.60	3.20	2.72	JQ1P-5V
		9DC	202.5	44.4	5	10		255-1934-ND	3.92	3.60	3.20	2.72	JQ1P-9V
		12DC	360	33.3	5	10		255-1704-ND	3.92	3.60	3.20	2.72	JQ1P-12V
		24DC	1,440	16.7	5	10		255-1705-ND	3.92	3.60	3.20	2.72	JQ1P-24V
		5DC	62.5	80	5	5	AgSnO	255-2073-ND	3.58	3.29	2.92	2.49	JQ1-5V-F
		12DC	360	33.3	5	5		255-2074-ND	3.58	3.29	2.92	2.49	JQ1-12V-F
		24DC	1,440	16.7	5	5		255-2075-ND	3.58	3.29	2.92	2.49	JQ1-24V-F
14B	SPST	5DC	125	40	5	5	AgSnO	255-2067-ND	3.26	3.00	2.66	2.27	JQ1A-5V-F
		12DC	720	16.7	5	5		255-2068-ND	3.26	3.00	2.66	2.27	JQ1A-12V-F
		24DC	2,880	8.3	5	5		255-2069-ND	3.26	3.00	2.66	2.27	JQ1A-24V-F
		5DC	125	40	5	10	AgSnO High Capacity	255-2070-ND	3.58	3.29	2.92	2.49	JQ1AP-5V-F
		12DC	720	16.7	5	10		255-2071-ND	3.58	3.29	2.92	2.49	JQ1AP-12V-F
		24DC	2,880	8.3	5	10		255-2072-ND	3.58	3.29	2.92	2.49	JQ1AP-24V-F
14A	SPDT	5DC	62.5	80	5	10	AgSnO High Capacity	255-2076-ND	3.92	3.60	3.20	2.72	JQ1P-5V-F
		12DC	360	33.3	5	10		255-2077-ND	3.92	3.60	3.20	2.72	JQ1P-12V-F
		24DC	1,440	16.7	5	10		255-2078-ND	3.92	3.60	3.20	2.72	JQ1P-24V-F
JS Series Power Relays													
15A	SPDT	5DC	69.4	72	—	10	AgCd Class E Insulation	255-1103-ND	1.30	1.20	1.06	.91	JS1-5V
		6DC	100	60	—	10		255-1707-ND	1.30	1.20	1.06	.91	JS1-6V
		9DC	225	40	—	10		255-1708-ND	1.30	1.20	1.06	.91	JS1-9V
		12DC	400	30	—	10		255-1104-ND	1.30	1.20	1.06	.91	JS1-12V
		24DC	1,600	15	—	10		255-1105-ND	1.42	1.31	1.16	.99	JS1-24V
		48DC	6,400	7.5	—	10		255-1706-ND	1.72	1.58	1.40	1.19	JS1-48V
15B	SPST	5DC	69.4	72	—	10	AgCd Class E Insulation	255-1106-ND	1.25	1.15	1.02	.87	JS1A-5V
		12DC	400	30	—	10		255-1107-ND	1.25	1.15	1.02	.87	JS1A-12V
		24DC	1,600	15	—	10		255-1108-ND	1.27	1.17	1.04	.89	JS1A-24V
		48DC	6,400	7.5	—	10		255-1709-ND	1.67	1.53	1.36	1.16	JS1A-48V
15A	SPDT	5DC	69.4	72	—	10	AgSnO Class E Insulation	255-2064-ND	1.30	1.20	1.06	.91	JS1-5V-F
		6DC	100	60	—	10		255-2221-ND	1.30	1.20	1.06	.91	JS1-6V-F
		9DC	225	40	—	10		255-2065-ND	1.30	1.20	1.06	.91	JS1-9V-F
		12DC	400	30	—	10		255-2080-ND	1.30	1.20	1.06	.91	JS1-12V-F
		24DC	1,600	15	—	10		255-2066-ND	1.42	1.31	1.16	.99	JS1-24V-F
15B	SPST	5DC	69.4	72	—	10	AgSnO Class E Insulation	255-2061-ND	1.25	1.15	1.02	.87	JS1A-5V-F
		9DC	225	40	—	10		255-2062-ND	1.25	1.15	1.02	.87	JS1A-9V-F
		12DC	400	30	—	10		255-2081-ND	1.25	1.15	1.02	.87	JS1A-12V-F
		24DC	1,600	15	—	10		255-2063-ND	1.27	1.17	1.04	.89	JS1A-24V-F
		5DC	69.4	72	—	10	AgSnO Class B Insulation	255-1712-ND	1.27	1.17	1.04	.89	JS1A-B-5V-F
		9DC	225	40	—	10		255-1713-ND	1.27	1.17	1.04	.89	JS1A-B-9V-F
		12DC	400	30	—	10		255-1710-ND	1.27	1.17	1.04	.89	JS1A-B-12V-F
		24DC	1,600	15	—	10		255-1711-ND	1.30	1.20	1.06	.91	JS1A-B-24V-F

Fig. 11
JK Series – PCB

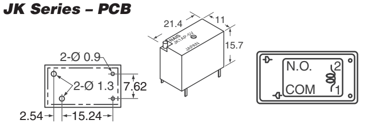

Fig. 12
JM Series – PCB

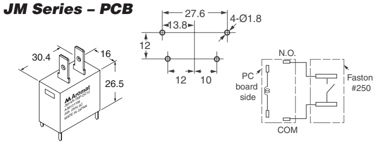

Fig. 13
JJM Series – PCB

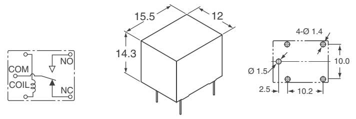

Fig. 14
JQ Series – PCB

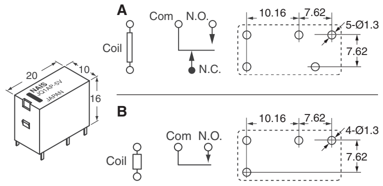

Fig. 15
JS Series – PCB

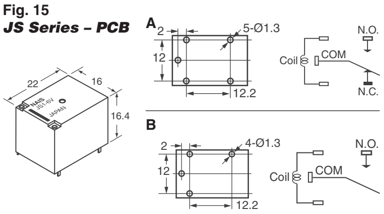

Fig. 16
CP Series – PCB

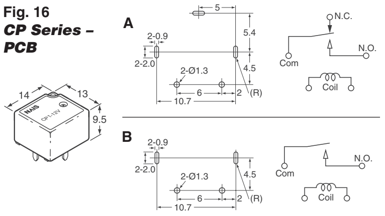

Fig. 17 ***CF Series – PCB***

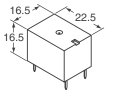

Fig. 18 ***CM Series – PCB***

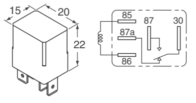

Fig. 19 ***CT Series – PCB***

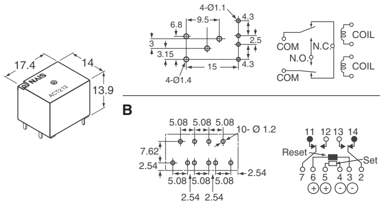

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Power Relays *(Cont.)*

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	125 VAC	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
15A	SPDT	5DC	69.4	72	—	10	AgSnO Class B Insulation	255-1717-ND	1.42	1.31	1.16	.99	JS1-B-5V-F
		9DC	225	40	—	10		255-1718-ND	1.42	1.31	1.16	.99	JS1-B-9V-F
		12DC	400	30	—	10		255-1715-ND	1.42	1.31	1.16	.99	JS1-B-12V-F
		24DC	1,600	15	—	10		255-1716-ND	1.45	1.33	1.18	1.01	JS1-B-24V-F
		12DC	400	30	—	10	Class B Insulation	255-1714-ND	1.42	1.31	1.16	.99	JS1-B-12V
		48DC	6,400	7.5	—	10		255-2222-ND	1.89	1.74	1.54	1.31	JS1-B-48V
CP Series Mini Automotive Relay													
16A	SPDT	12DC	180	53	20	—	Low Pro-Sealed	255-1939-ND	2.65	2.43	2.16	1.84	CP1-12V
16B	SPST-NO	12DC	180	53	20	—	Low Pro-Sealed	255-1940-ND	2.50	2.30	2.04	1.74	CP1A-12V
CF Series Dual Automotive Relay													
17	2x SPDT	12DC	225	53.3	30	—	Twin Relay	255-2182-ND	5.12	4.71	4.18	3.56	CF2-12V
CM Series Automotive Relay													
18	SPDT	12DC	96	125	35	—	Plug-In	255-2183-ND	3.53	3.24	2.88	2.45	CM1-12V
		12DC	96	125	35	—	with Diode	255-2184-ND	3.63	3.33	2.96	2.52	CM1-D-12V
		12DC	96	125	35	—	with Resistor	255-2185-ND	3.48	3.20	2.84	2.42	CM1-R-12V
		12DC	96	125	35	—	PCB with Resistor	255-2186-ND	3.58	3.29	2.92	2.49	CM1-R-P-12V
CT Series Dual Automotive Relay													
19A	2x SPDT	12DC	180	53.3	20	—	Twin Relay 8Pin	255-1851-ND	3.63	3.33	2.96	2.52	ACT212
19B	2x SPDT	12DC	180	53.3	20	—	Twin Relay 10Pin	255-1852-ND	3.63	3.33	2.96	2.52	ACT512
CB Series ISO Automotive Relays													
20A	SPDT	12DC	103	117	40A@14VDC		.250" QC Sealed	255-1825-ND	4.41	4.05	3.60	3.06	CB1-12V
		12DC	103	117	40A@14VDC		QC with Diode	255-2159-ND	4.70	4.32	3.84	3.27	CB1-D-12V
		12DC	103	117	40A@14VDC		QC w/ Molded Brkt.	255-1830-ND	4.58	4.21	3.74	3.18	CB1-M-12V
		12DC	103	117	40A@14VDC		PCB Fully Sealed	255-1832-ND	4.41	4.05	3.60	3.06	CB1-P-12V
		12DC	103	117	40A@14VDC		QC with Resistor	255-2161-ND	4.46	4.10	3.64	3.10	CB1-R-12V
		12DC	103	117	40A@14VDC		QC w/ Molded Brkt.	255-2163-ND	4.66	4.28	3.80	3.23	CB1-R-M-12V
		12DC	103	117	40A@14VDC		QC Weather Proof	255-2164-ND	5.00	4.59	4.08	3.47	CB1-R-SM-12V
		12DC	103	117	40A@14VDC		QC Weather Proof	255-2165-ND	5.15	4.73	4.20	3.57	CB1-WM-12V
		24DC	320	75	20A@28VDC		.250" QC Sealed	255-1824-ND	4.70	4.32	3.84	3.27	CB1-24V
		24DC	320	75	20A@28VDC		QC with Diode	255-2160-ND	4.95	4.55	4.04	3.44	CB1-D-24V
		24DC	411	58	20A@28VDC		QC w/ Molded Brkt.	255-1831-ND	4.85	4.46	3.96	3.37	CB1-M-24V
		24DC	320	75	20A@28VDC		QC with Resistor	255-2162-ND	4.75	4.37	3.88	3.30	CB1-R-24V
		24DC	411	58	20A@28VDC		PCB Fully Sealed	255-1833-ND	4.70	4.32	3.84	3.27	CB1-P-24V
20B	SPST-NO	12DC	103	117	40A@14VDC		.250" QC Sealed	255-1826-ND	4.19	3.85	3.42	2.91	CB1A-12V
		12DC	103	117	40A@14VDC		QC with Diode	255-2166-ND	4.43	4.08	3.62	3.08	CB1A-D-12V
		12DC	103	117	40A@14VDC		PCB with Diode	255-2168-ND	4.43	4.08	3.62	3.08	CB1A-D-P-12V
		12DC	103	117	40A@14VDC		QC w/ Molded Brkt.	255-1828-ND	4.34	3.99	3.54	3.01	CB1A-M-12V
		12DC	103	117	40A@14VDC		PCB Mount	255-1834-ND	4.19	3.85	3.42	2.91	CB1A-P-12V
		12DC	103	117	40A@14VDC		QC with Resistor	255-2169-ND	4.26	3.92	3.48	2.96	CB1A-R-12V
		12DC	103	117	40A@14VDC		QC w/ Molded Brkt.	255-2171-ND	4.39	4.03	3.58	3.05	CB1A-R-M-12V
		24DC	411	58	20A@28VDC		.250" QC	255-1827-ND	4.43	4.08	3.62	3.08	CB1A-24V
		24DC	411	58	20A@28VDC		QC with Diode	255-2167-ND	4.73	4.35	3.86	3.29	CB1A-D-24V
		24DC	411	58	20A@28VDC		QC w/ Molded Brkt.	255-1829-ND	4.66	4.28	3.80	3.23	CB1A-M-24V
		24DC	411	58	20A@28VDC		PCB Fully Sealed	255-1835-ND	4.43	4.08	3.62	3.08	CB1A-P-24V
		24DC	411	58	20A@28VDC		QC with Resistor	255-2170-ND	4.53	4.17	3.70	3.15	CB1A-R-24V
		12DC	103	117	40A@14VDC		QC Flux Sealed	255-2172-ND	4.12	3.78	3.36	2.86	CB1AF-12V
		12DC	103	117	40A@14VDC		PCB Flux Sealed	255-2175-ND	4.12	3.78	3.36	2.86	CB1AF-P-12V
		24DC	411	58	20A@28VDC		QC Flux Sealed	255-2174-ND	4.34	3.99	3.54	3.01	CB1AF-24V
		24DC	411	58	20A@28VDC		PCB Flux Sealed	255-2176-ND	4.34	3.99	3.54	3.01	CB1AF-P-24V
20A	SPDT	12DC	103	117	40A@14VDC		QC Flux Resistant	255-2179-ND	4.36	4.01	3.56	3.03	CB1F-12V
		12DC	103	117	40A@14VDC		QC with Resistor	255-2181-ND	4.41	4.05	3.60	3.06	CB1F-R-12V
		12DC	103	117	40A@14VDC		PCB Flux Sealed	255-2180-ND	4.36	4.01	3.56	3.03	CB1F-P-12V
CB Series ISO Automotive High Capacity Relays													
20B	SPST-NO	12DC	103	117	70A@14VDC		.375" QC	255-2082-ND	5.51	5.07	4.50	3.83	CB1AH-12V
		12DC	103	117	70A@14VDC		QC w/ Molded Brkt.	255-2079-ND	5.59	5.13	4.56	3.88	CB1AH-M-12V
		12DC	103	117	70A@14VDC		PCB Mount	255-2177-ND	5.81	5.34	4.74	4.03	CB1AH-P-12V
		24DC	320	75	20A@28VDC		.375" QC	255-2083-ND	5.71	5.25	4.66	3.97	CB1AH-24V
		24DC	411	58	20A@28VDC		PCB Mount	255-2178-ND	4.95	4.55	4.04	3.44	CB1AH-P-24V
JSM Series Automotive Power Relays													
21A	SPDT	12DC	225	53.3	10	—	—	255-1239-ND	1.42	1.31	1.16	.99	JSM1-12V-4
		12DC	225	53.3	15	—	High Capacity	255-1240-ND	1.54	1.42	1.26	1.08	JSM1-12V-5
21B	SPST-NO	12DC	225	53.3	10	—	—	255-2223-ND	1.30	1.20	1.06	.91	JSM1A-12V-4
JTN Series Economical Relays													
22A	SPST-NO	12DC	180	—	—	30	Class F Insulation	255-1719-ND	3.38	3.11	2.76	2.35	JTN1AS-PA-F-DC12V
		24DC	720	—	—	30		255-1720-ND	3.45	3.18	2.82	2.40	JTN1AS-PA-F-DC24V
23A	SPST-NO	5DC	31	—	—	30	Class F Insulation	255-1487-ND	3.65	3.36	2.98	2.54	JTN1AS-TMP-F-DC5V
		6DC	45	—	—	30		255-2224-ND	3.65	3.36	2.98	2.54	JTN1AS-TMP-F-DC6V
		12DC	180	—	—	30		255-1721-ND	3.65	3.36	2.98	2.54	JTN1AS-TMP-F-C12V
		24DC	720	—	—	30		255-1722-ND	3.72	3.42	3.04	2.59	JTN1AS-TMP-F-C24V
22B	SPDT	5DC	31	161	—	20	Class F Insulation	255-1879-ND	3.65	3.36	2.98	2.54	JTN1S-PA-F-DC5V
		12DC	180	66.6	—	20		255-1723-ND	3.65	3.36	2.98	2.54	JTN1S-PA-F-DC12V
		24DC	720	33.3	—	20		255-1878-ND	3.72	3.42	3.04	2.59	JTN1S-PA-F-DC24V
23B	SPDT	12DC	180	—	—	20	Class F Insulation	255-1724-ND	3.90	3.58	3.18	2.71	JTN1S-TMP-F-DC12V
JV Series Flat Power Relays													
24	SPST-NO	4.5DC	101	44.4	10	16	Sealed Relay AgSno$_2$	255-2360-ND	2.03	1.87	1.66	1.42	JVN1A-4.5V-F
		6DC	180	33.3	10	16		255-2361-ND	6.44	5.92	5.26	4.48	JVN1A-6V-F
		12DC	720	16.7	10	16		255-2362-ND	6.44	5.92	5.26	4.48	JVN1A-12V-F
		18DC	1,620	11.1	10	16		255-2363-ND	6.44	5.92	5.26	4.48	JVN1A-18V-F
		24DC	2,880	8.3	10	16		255-2364-ND	6.62	6.08	5.40	4.59	JVN1A-24V-F
JW Series Power Relays													
25A	SPDT	5DC	47	106	10	10	Class E Insulation	255-1113-ND	2.25	2.07	1.84	1.57	JW1FSN-DC5V
		6DC	68	88	10	10		255-1731-ND	2.25	2.07	1.84	1.57	JW1FSN-DC6V

Fig. 20
CB Series

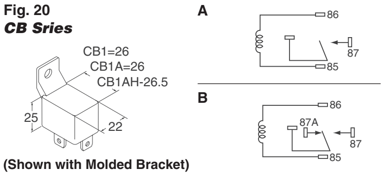

(Shown with Molded Bracket)

Fig. 21
JSM Series – PCB

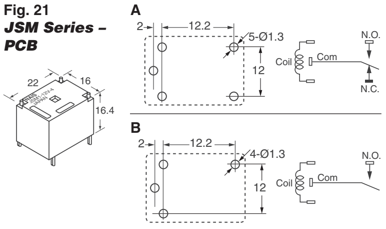

Fig. 22
JTN Series – PCB

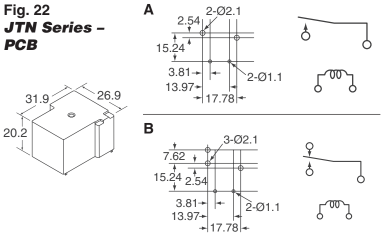

Fig. 23
JTN Series – TMP

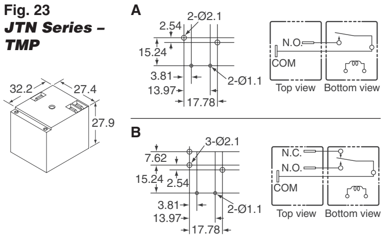

Fig. 24
JV Series – PCB

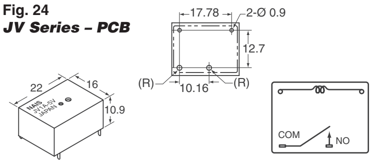

Fig. 25
JW Series – PCB

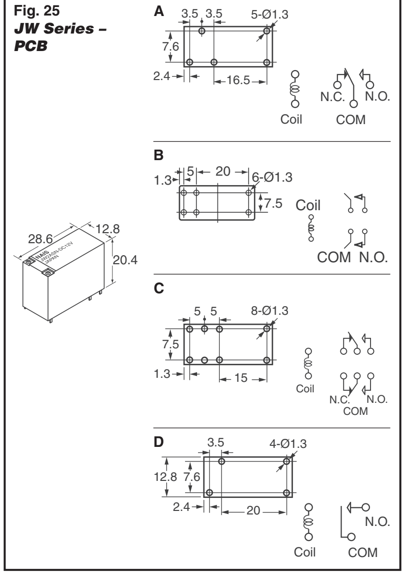

(Continued)

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	Contact Ratings (A) 125 VAC	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
25A	SPDT	9DC	155	58	10	10	Class E Insulation	255-1488-ND	2.25	2.07	1.84	1.57	JW1FSN-DC9V
		12DC	270	44	10	10		255-1114-ND	2.25	2.07	1.84	1.57	JW1FSN-DC12V
		24DC	1,100	16.8	10	10		255-1115-ND	2.35	2.16	1.92	1.64	JW1FSN-DC24V
		48DC	4,400	11	10	10		255-1730-ND	2.45	2.25	2.00	1.70	JW1FSN-DC48V
		5DC	47	106	10	10	Class B Insulation	255-1728-ND	2.33	2.14	1.90	1.62	JW1FSN-B-DC5V
		9DC	155	58	10	10		255-1729-ND	2.33	2.14	1.90	1.62	JW1FSN-B-DC9V
		12DC	270	44	10	10		255-1726-ND	2.33	2.14	1.90	1.62	JW1FSN-B-DC12V
		24DC	1,100	22	10	10		255-1727-ND	2.38	2.19	1.94	1.65	JW1FSN-B-DC24V
25B	DPST-NO	5DC	47	106	5	5	Class E Insulation	255-2225-ND	2.43	2.23	1.98	1.69	JW2ASN-DC5V
		12DC	270	44	5	5		255-1733-ND	2.47	2.28	2.02	1.72	JW2ASN-DC12V
		24DC	1,100	22	5	5		255-1734-ND	2.47	2.28	2.02	1.72	JW2ASN-DC24V
25C	DPDT	5DC	47	106	5	5	Class E Insulation	255-1116-ND	2.55	2.34	2.08	1.77	JW2SN-DC5V
		6DC	68	88	5	5		255-1735-ND	2.55	2.34	2.08	1.77	JW2SN-DC6V
		9DC	155	58	5	5		255-1736-ND	2.55	2.34	2.08	1.77	JW2SN-DC9V
		12DC	270	44	5	5		255-1117-ND	2.55	2.34	2.08	1.77	JW2SN-DC12V
		24DC	1,100	16.8	5	5		255-1118-ND	2.70	2.48	2.20	1.87	JW2SN-DC24V
		48DC	4,400	11	5	5		255-1119-ND	2.77	2.55	2.26	1.93	JW2SN-DC48V
		5DC	47	106	5	5	Class B Insulation	255-2228-ND	2.62	2.41	2.14	1.82	JW2SN-B-DC5V
		12DC	270	44	5	5		255-2226-ND	2.62	2.41	2.14	1.82	JW2SN-B-DC12V
		24DC	1,100	16.8	5	5		255-2227-ND	2.72	2.50	2.22	1.89	JW2SN-B-DC24V
25D	SPST-NO	5DC	47	106	10	10	Class E Insulation	255-1725-ND	2.11	1.94	1.72	1.47	JW1AFSN-DC5V
		12DC	270	44	10	10		255-1120-ND	2.11	1.94	1.72	1.47	JW1AFSN-DC12V
		24DC	1,100	21.8	10	10		255-1121-ND	2.18	2.01	1.78	1.52	JW1AFSN-DC24V
PC Board Socket for JW1 Relays								255-1732-ND	2.70	2.48	2.20	1.87	JW1-PS
PC Board Socket for JW2 Relays								255-1821-ND	3.01	2.77	2.46	2.10	JW2-PS
ALA Series Slim Power Relays													
26	DPST	5DC	100	50	3	3	—	255-1273-ND	1.67	1.53	1.36	1.16	ALA2F05
		12DC	272	44.2	3	3		255-1274-ND	1.67	1.53	1.36	1.16	ALA2F12
		24DC	1,087	22.1	3	3		255-1275-ND	1.69	1.56	1.38	1.18	ALA2F24
		12DC	272	44.2	—	5	—	255-1466-ND	1.91	1.76	1.56	1.33	ALA2PF12
ALD Series Slim Power Relay													
27	SPST-NO	5DC	125	40.0	3	3	—	255-1456-ND	1.62	1.49	1.32	1.13	ALD105
		12DC	720	16.7	3	3		255-1457-ND	1.62	1.49	1.32	1.13	ALD112
		18DC	1,620	11.1	3	3		255-2097-5-ND	1.62	1.49	1.32	1.13	ALD118
		24DC	2,880	8.3	3	3		255-1458-ND	1.89	1.74	1.54	1.31	ALD124
ALE Series Power Relays (Ideal for Heater Loads)													
28A	SPST-NO	5DC	63	80	—	16	Class B Insulation	255-1365-ND	1.76	1.62	1.44	1.23	ALE12B05
		12DC	360	33.3	—	16		255-1366-ND	1.76	1.62	1.44	1.23	ALE12B12
		24DC	1,440	16.7	—	16		255-1367-ND	1.89	1.74	1.54	1.31	ALE12B24
28B	SPST-NO	24DC	1,440	16.7	—	16	4 Pin Type	255-2098-5-ND	1.89	1.74	1.54	1.31	ALE14B24
		24DC	1,440	16.7	—	16	PC Mount (No Tab Terminals)	255-1863-ND	1.74	1.60	1.42	1.21	ALE15B24
		5DC	125	40	—	16	PC Mount	255-2368-ND	2.16	1.98	1.76	1.50	ALE1PB05
		6DC	180	33.3	—	16		255-2369-ND	2.16	1.98	1.76	1.50	ALE1PB06
		9DC	405	22.2	—	16		255-2370-ND	2.16	1.98	1.76	1.50	ALE1PB09
		12DC	720	16.7	—	16		255-2371-ND	2.16	1.98	1.76	1.50	ALE1PB12
		24DC	2,880	8.3	—	16		255-2372-ND	2.28	2.10	1.86	1.59	ALE1PB24
		48DC	11,520	4.2	—	16		255-2373-ND	2.45	2.25	2.00	1.70	ALE1PB48
ALF Relays													
29	SPST-NO	12DC	160	75	—	25	PCB Only	255-2099-5-ND	3.09	2.84	2.52	2.15	ALF1P12
LK Series Slim High Inrush Power Relays													
30	SPST-NO	12DC	272	44.2	5	5	—	255-1266-ND	1.74	1.60	1.42	1.21	LK1AF-12V
		24DC	1,087	22.1	5	5		255-1267-ND	1.84	1.69	1.50	1.28	LK1AF-24V
LKS Series High Sensitivity Power Relays													
30	SPST-NO	5DC	100	50	5	5	—	255-1268-ND	1.49	1.38	1.22	1.04	LKS1AF-5V
		12DC	576	20.8	5	5		255-1269-ND	1.49	1.38	1.22	1.04	LKS1AF-12V
		24DC	2,304	10.4	5	5		255-1270-ND	1.57	1.44	1.28	1.09	LKS1AF-24V
LKP Series Slim Power Relays													
30	SPST	12DC	400	30	10	5	—	255-1271-ND	1.76	1.62	1.44	1.23	LKP1AF-12V
		24DC	1,600	15	10	5		255-1272-ND	1.79	1.65	1.46	1.25	LKP1AF-24V
ALZ Series Power Relays (Ideal for Heater Loads)													
31A	SPDT	12DC	360	33.3	16	16	Class F Insulation	255-1446-ND	2.28	2.10	1.86	1.59	ALZ12F12
		24DC	1,440	16.7	16	16	Class F Insulation	255-1445-ND	2.28	2.10	1.86	1.59	ALZ12B24
		24DC	1,440	16.7	16	16	Class F Insulation	255-1447-ND	2.35	2.16	1.92	1.64	ALZ12F24
31B	SPST-NO	12DC	360	33.3	16	16	Class B Insulation	255-1410-ND	2.11	1.94	1.72	1.47	ALZ21B12
		12DC	360	33.3	16	16	Class F Insulation	255-1448-ND	2.18	2.01	1.78	1.52	ALZ21F12
		24DC	1,440	16.7	16	16	Class B Insulation	255-1411-ND	2.18	2.01	1.78	1.52	ALZ21B24
		24DC	1,440	16.7	16	16	Class F Insulation	255-1449-ND	2.30	2.12	1.88	1.60	ALZ21F24
		12DC	360	33.3	16	16	Class B Insulation	255-1514-5-ND	2.11	1.94	1.72	1.47	ALZ22B12
		12DC	360	33.3	16	16	Class F Insulation	255-2100-5-ND	2.18	2.01	1.78	1.52	ALZ22F12
		24DC	1,440	16.7	16	16	Class F Insulation	255-2101-5-ND	2.30	2.12	1.88	1.60	ALZ22F24
NC Series Power Relays													
32A	DPDT	5DC	69.4	72	5	5	Vertical Style	255-1396-ND	11.93	10.96	9.74	8.28	NC2D-P-DC5V
		12DC	400	30	5	5		255-1397-ND	11.93	10.96	9.74	8.28	NC2D-P-DC12V
		24DC	1,600	15	5	5		255-1398-ND	11.93	10.96	9.74	8.28	NC2D-P-DC24V
32B	DPDT	5DC	69.4	72	5	5	Flat Style	255-1399-ND	11.93	10.96	9.74	8.28	NC2D-JP-DC5V
		12DC	400	30	5	5		255-1400-ND	11.93	10.96	9.74	8.28	NC2D-JP-DC12V
		24DC	1,600	15	5	5		255-1401-ND	11.93	10.96	9.74	8.28	NC2D-JP-DC24V
		5DC	69.4	72	5	5	Flat Style	255-2231-ND	15.46	14.20	12.62	10.73	NC2EBD-JP-DC5V
		12DC	400	30	5	5		255-2229-ND	15.46	14.20	12.62	10.73	NC2EBD-JP-DC12V
		24DC	1,600	15	5	5		255-2230-ND	15.46	14.20	12.62	10.73	NC2EBD-JP-DC24V
32C	DPDT	12DC	400	30	5	5	Vertical Style	255-2232-ND	15.46	14.20	12.62	10.73	NC2EBD-P-DC12V

Fig. 26
ALA Series – PCB

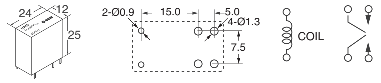

Fig. 27
ALD Series – PCB

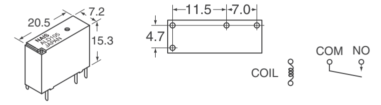

Fig. 28 ***ALE Series***

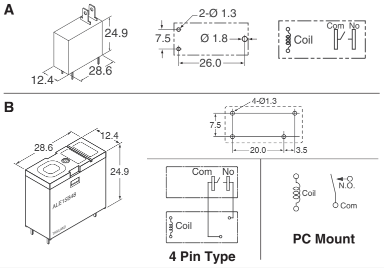

Fig. 29
ALF Series – PCB

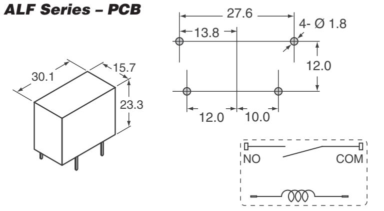

Fig. 30 ***LK, LKS, and LKP Series – PCB***

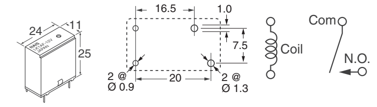

Fig. 31
ALZ Series – PCB

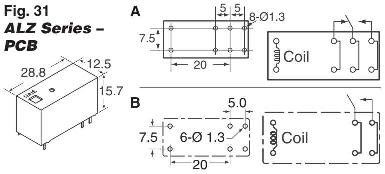

Fig. 32
NC Series

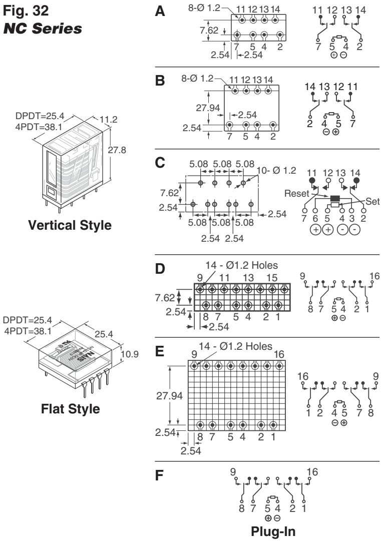

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Power Relays *(Cont.)*

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	125 VAC	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
32D	4PDT	5DC	34.7	144	5	5	Vertical Style	255-1998-ND	15.19	13.95	12.40	10.54	NC4D-P-DC5V
		12DC	180	60	5	5		255-1999-ND	15.19	13.95	12.40	10.54	NC4D-P-DC12V
		24DC	800	30	5	5		255-1938-ND	15.19	13.95	12.40	10.54	NC4D-P-DC24V
		5DC	34.7	144	5	5	Vertical Style	255-2238-ND	18.69	17.17	15.26	12.98	NC4EBD-P-DC5V
		12DC	200	60	5	5		255-2236-ND	18.69	17.17	15.26	12.98	NC4EBD-P-DC12V
		24DC	800	30	5	5		255-2237-ND	18.69	17.17	15.26	12.98	NC4EBD-P-DC24V
32E	4PDT	5DC	34.7	144	5	5	Flat Style	255-1937-ND	15.19	13.95	12.40	10.54	NC4D-JP-DC5V
		12DC	200	60	5	5		255-1935-ND	15.19	13.95	12.40	10.54	NC4D-JP-DC12V
		24DC	800	30	5	5		255-1936-ND	15.19	13.95	12.40	10.54	NC4D-JP-DC24V
32F	4PDT	5DC	34.7	144	5	5	Vertical Style	255-2235-ND	18.69	17.17	15.26	12.98	NC4EBD-DC5V
		12DC	200	60	5	5		255-2233-ND	18.69	17.17	15.26	12.98	NC4EBD-DC12V
		24DC	800	30	5	5		255-2234-ND	18.69	17.17	15.26	12.98	NC4EBD-DC24V
PC Mount Socket for Flat NC2D-JP Series								255-1836-ND	2.16	1.98	1.76	1.50	NC2-JPS
PC Mount Socket for Vertical NC2D-P Series								255-1837-ND	2.16	1.98	1.76	1.50	NC2-PS
PC Mount Socket for Flat NC4D-JP Series								255-1997-ND	2.87	2.64	2.34	1.99	NC4-JPS
PC Mount Socket for Vertical NC4D-P Series								255-1996-ND	2.87	2.64	2.34	1.99	NC4-PS
NF Series Flatpack Relays													
33A	DPDT	5DC	90	55	2	2	Gold Over Silver	255-1880-ND	9.46	8.69	7.72	6.57	NF2EB-5V
		6DC	137	43.7	2	2		255-1882-ND	9.46	8.69	7.72	6.57	NF2EB-6V
		6DC	137	43.7	2	2		255-1881-ND	12.13	11.14	9.90	8.42	NF2EB-6V-1
		12DC	500	24	2	2		255-2239-ND	9.46	8.69	7.72	6.57	NF2EB-12V
		24DC	2,000	12	2	2		255-2240-ND	9.46	8.69	7.72	6.57	NF2EB-24V
		48DC	7,000	6.8	2	2		255-2241-ND	11.25	10.33	9.18	7.81	NF2EB-48V
33B	4PDT	5DC	53	9.4	2	2	Gold Over Silver	255-2243-ND	11.54	10.60	9.42	8.01	NF4EB-5V
		12DC	330	36.3	2	2		255-1883-ND	11.54	10.60	9.42	8.01	NF4EB-12V
		24DC	1,200	20	2	2		255-1885-ND	11.54	10.60	9.42	8.01	NF4EB-24V
		24DC	1,200	20	2	2		255-1884-ND	15.85	14.56	12.94	11.00	NF4EB-24V-1
		24DC	4,200	5.7	2	2		255-2242-ND	13.13	12.06	10.72	9.12	NF4EB-48V
PA Series Slim Power Relays													
34	SPST	5DC	208	24	5	5	—	255-1738-5-ND	7.45	6.84	6.08	5.17	PA1A-5V
		9DC	675	13.3	5	5		255-2050-ND	7.45	6.84	6.08	5.17	PA1A-9V
		12DC	1,200	10	5	5		255-1886-ND	7.45	6.84	6.08	5.17	PA1A-12V
		24DC	3,200	7.5	5	5		255-1737-5-ND	7.45	6.84	6.08	5.17	PA1A-24V
PC Mount Relay Socket for PA1A Relays								255-2049-ND	3.31	3.04	2.70	2.30	PA1A-PS
Self Clinching Relay Socket for PA1A Relays								255-2247-ND	3.31	3.04	2.70	2.30	PA1A-PS-H
PQ Series High Noise Immunity Relays													
35	SPST-NO	5DC	125	40	5	5	Slim Package	255-2250-ND	5.29	4.86	4.32	3.68	PQ1A-5V
		12DC	720	16.6	5	5		255-2248-ND	5.29	4.86	4.32	3.68	PQ1A-12V
		24DC	2,880	8.3	5	5		255-2249-ND	5.29	4.86	4.32	3.68	PQ1A-24V
APE Series Slim Power Relays													
36A	SPST	4.5DC	119	38	—	6	Silver Alloy	255-1450-ND	4.29	3.94	3.50	2.98	APE1004H
		12DC	847	14	—	6		255-1451-ND	4.29	3.94	3.50	2.98	APE10012
		24DC	3,388	9	—	6		255-1865-ND	4.58	4.21	3.74	3.18	APE10024
		4.5DC	119	38	—	6	Gold Over Silver	255-1452-ND	4.80	4.41	3.92	3.34	APE1014H
		12DC	847	14	—	6		255-1453-ND	4.80	4.41	3.92	3.34	APE10112
36B	SPDT	12DC	847	14	—	6	Silver Alloy	255-1515-5-ND	4.56	4.19	3.72	3.17	APE30012
		24DC	3,388	7	—	6		255-1866-ND	4.83	4.44	3.94	3.35	APE30024
		4.5DC	119	38	—	6	Gold Over Silver	255-1454-ND	5.27	4.84	4.30	3.66	APE3014H
		6DC	212	28	—	6		255-1867-ND	5.27	4.84	4.30	3.66	APE30106
		12DC	847	14	—	6		255-1455-ND	5.27	4.84	4.30	3.66	APE30112
		24DC	3,388	7	—	6		255-1868-ND	5.56	5.11	4.54	3.86	APE30124
		48DC	10,600	5	—	6		255-1869-ND	5.98	5.49	4.88	4.15	APE30148
S Series 4 Amp Polarized High Density Relays													
37A	4x SPST	5DC	130	38.5	3	4	—	255-1741-ND	16.34	15.01	13.34	11.34	S2EB-5V
		12DC	720	16.7	3	4		255-1739-ND	16.34	15.01	13.34	11.34	S2EB-12V
		24DC	2,850	8.4	3	4		255-1740-ND	16.34	15.01	13.34	11.34	S2EB-24V
37B	4x SPST	5DC	130	38.5	3	4	—	255-1889-ND	15.80	14.52	12.90	10.97	S3EB-5V
		12DC	720	16.7	3	4		255-1887-ND	17.22	15.82	14.06	11.96	S3EB-12V
		24DC	2,850	8.4	3	4		255-1888-ND	17.22	15.82	14.06	11.96	S3EB-24V
37C	4x SPST	5DC	130	38.5	3	4	—	255-2252-ND	17.37	15.96	14.18	12.06	S4EB-5V
S Series Dual Coil Latching Relays													
37D	2x DPST	12DC	720	16.7	3	4	—	255-1489-ND	17.69	16.25	14.44	12.28	S2EB-L2-12V
		24DC	2,850	8.4	3	4		255-2251-ND	17.69	16.25	14.44	12.28	S2EB-L2-24V
Relay Socket for S Series for DP and 4P Relays								255-1751-ND	2.99	2.75	2.44	2.08	S-PS
SF Series Safety Relays (Force Guided Contacts)													
38A	4PST	5DC	50	100	6	6	—	255-1747-ND	36.21	33.26	29.56	25.13	SF2D-DC5V
		12DC	288	41.7	6	6		255-1745-ND	36.21	33.26	29.56	25.13	SF2D-DC12V
		24DC	1,152	20.8	6	6		255-1746-ND	36.21	33.26	29.56	25.13	SF2D-DC24V
38B	4PDT	12DC	288	41.7	6	6	—	255-1440-ND	47.36	43.50	38.66	32.87	SF4D-DC12V
		24DC	1,152	20.8	6	6		255-1441-ND	47.36	43.50	38.66	32.87	SF4D-DC24V
SP Series High Sensitivity Power Relays													
39A	DPDT	12DC	480	25	10	15	—	255-1749-ND	25.80	23.70	21.06	17.91	SP2-DC12V
39B	DPDT	12DC	480	25	10	15	Dual Coil Latching	255-1490-ND	28.84	26.49	23.54	20.01	SP2-L2-DC12V
39C	4PDT	12DC	480	25	10	10	Dual Coil Latching	255-1491-ND	37.44	34.38	30.56	25.98	SP4-L2-DC12V
Relay Socket for SP Series Screw Terminal								255-1750-ND	11.69	10.74	9.54	8.11	SP2-SF
ST Series IC Drivable Power Relays													
40A	2x SPST	5DC	105	47	8	8	—	255-1288-ND	13.03	11.97	10.64	9.05	ST1-DC5V
		12DC	600	20	8	8		255-1289-ND	13.03	11.97	10.64	9.05	ST1-DC12V
		24DC	2,400	10	8	8		255-1290-ND	13.03	11.97	10.64	9.05	ST1-DC24V
40B	2x SPST	5DC	105	47	8	8	—	255-1291-ND	13.74	12.63	11.22	9.54	ST2-DC5V
		12DC	600	20	8	8		255-1292-ND	13.74	12.63	11.22	9.54	ST2-DC12V
		24DC	2,400	10	8	8		255-1293-ND	13.74	12.63	11.22	9.54	ST2-DC24V
PCB Mount Relay Socket for ST Series Relays								255-1294-ND	2.67	2.46	2.18	1.86	ST-PS
Solder Terminal Relay Socket for ST Series Relay								255-2253-ND	2.67	2.46	2.18	1.86	ST-SS

Fig. 33
NF Series – PCB

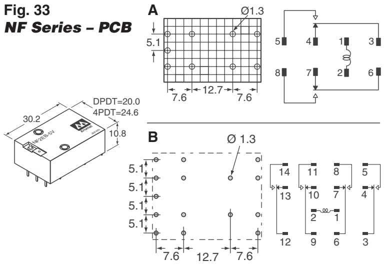

Fig. 34
PA Series – PCB

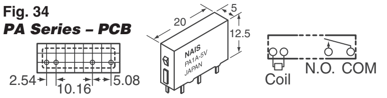

Fig. 35
PQ Series – PCB

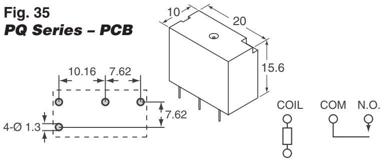

Fig. 36
APE Series – PCB

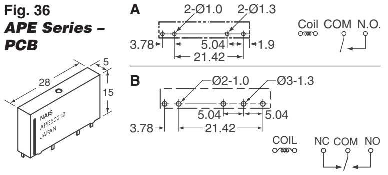

Fig. 37
S Series – PCB

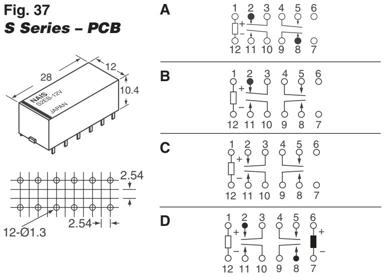

Fig. 38
SF Series – PCB

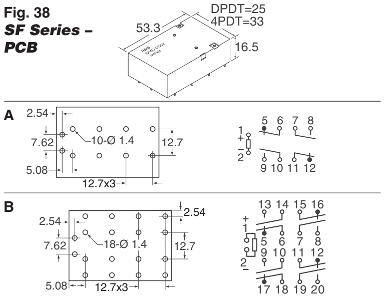

Fig. 39
SP Series – PCB

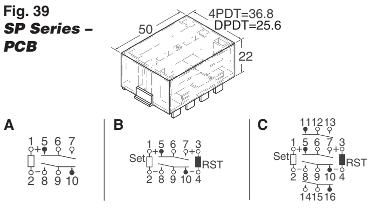

Fig. 40
ST Series – PCB

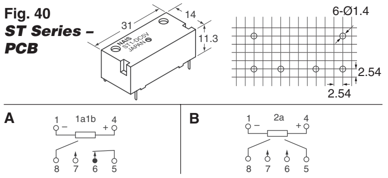

General Purpose PC Mount Relays

***All relays are UL, CSA approved**

Mounting hole connection diagrams are all bottom view unless otherwise noted

Dimensions in mm

Fig. 1 — JWD Series

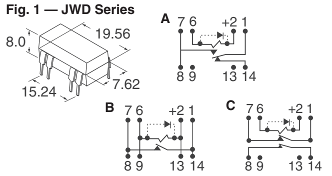

Fig. 2 — T7C Series

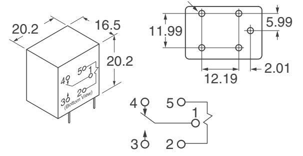

Fig. 3 — T7N Series

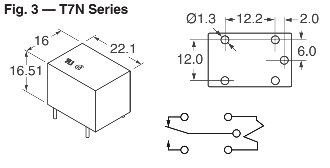

Fig. 4 — SRUDH Series

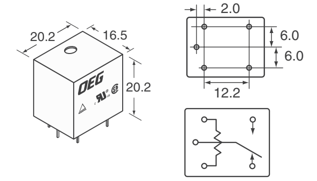

Fig. 5 — ORWH Series

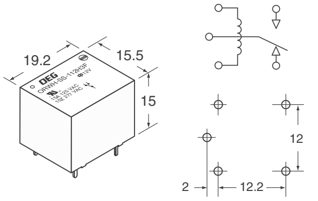

Fig. 6 — T73 / OUDH Series

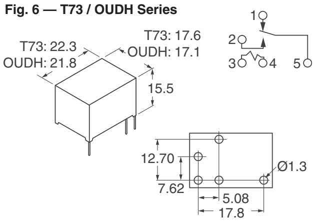

Fig. 7 — T75 Series

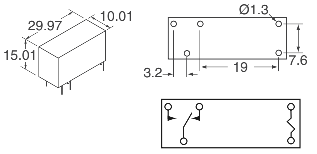

Fig. 8 — T77 Series

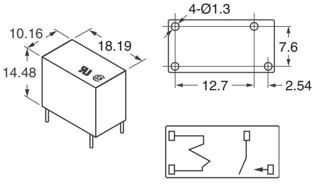

Fig. 9 — T81 Series

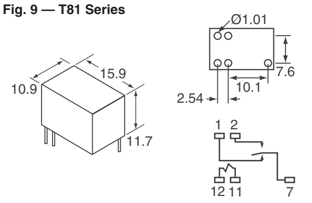

Fig. 10 — OMI/OMIH Series

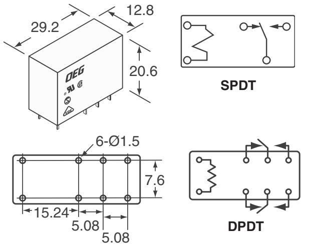

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Features	Brand Name	Digi-Key Part No.	Price Each			Tape and Reel‡		Mfg. Part No.
								1	25	50	Qty.	Pricing	
JWD Series Relay													
1A	SPDT	5 VDC	25.0	0.5	Without Diode	Potter & Brumfield	PB824-ND	8.74	7.65	6.92	—	—	JWD-172-1
		12 VDC	24.0				PB825-ND	9.77	8.55	7.74	—	—	JWD-172-3
		24 VDC	10.9				PB826-ND	10.22	8.95	8.10	—	—	JWD-172-4
		5 VDC	25.0	0.5	With Diode	Potter & Brumfield	PB688-ND	8.74	7.65	6.92	—	—	JWD-172-5
		12 VDC	24.0				PB827-ND	10.22	8.95	8.10	—	—	JWD-172-7
		24 VDC	10.9				PB828-ND	9.19	8.05	7.28	—	—	JWD-172-8
1B	SPST-NO	5 VDC	10.0	0.5	Without Diode	Potter & Brumfield	PB692-ND	4.49	3.93	3.56	—	—	JWD-107-1
		12 VDC	10.0				PB693-ND	4.46	3.91	3.54	—	—	JWD-107-3
		24 VDC	11.2				PB823-ND	7.51	6.58	5.95	—	—	JWD-171-5
		5 VDC	10.0	0.5	With Diode	Potter & Brumfield	PB689-ND	5.35	4.69	4.24	—	—	JWD-107-5
		12 VDC	10.0				PB690-ND	5.35	4.69	4.24	—	—	JWD-107-7
		24 VDC	11.2				PB694-ND	5.74	5.02	4.55	—	—	JWD-171-10
	SPST-NC	5 VDC	10.0	0.5	With Diode	Potter & Brumfield	PB818-ND	6.98	6.12	5.53	—	—	JWD-171-17
1C	DPST-NO	12 VDC	24.0	0.5	Without Diode	Potter & Brumfield	PB819-ND	6.70	5.86	5.31	—	—	JWD-171-23
		24 VDC	10.9				PB820-ND	7.51	6.58	5.95	—	—	JWD-171-24
		5 VDC	25.0	0.5	With Diode	Potter & Brumfield	PB691-ND	7.51	6.58	5.95	—	—	JWD-171-25
		12 VDC	24.0				PB821-ND	7.51	6.58	5.95	—	—	JWD-171-27
		24 VDC	10.9				PB822-ND	7.51	6.58	5.95	—	—	JWD-171-28
T7C Series — Economical Relay (Ideal for Appliance and Automotive Applications)													
2	SPDT	5 VDC	71.4	12	Sealed Type	Potter & Brumfield	PB335-ND	1.66	1.45	1.32	—	—	T7CS5D-05
		6 VDC	60.0				PB336-ND	1.66	1.45	1.32	—	—	T7CS5D-06
		12 VDC	30.0				PB337-ND	1.66	1.45	1.32	—	—	T7CS5D-12
		24 VDC	15.0				PB338-ND	1.66	1.45	1.32	—	—	T7CS5D-24
		5 VDC	71.4	12	Flux-Tight	Potter & Brumfield	PB1003-ND	1.61	1.41	1.28	—	—	T7CV5D-05
		12 VDC	30.0				PB441-ND	1.61	1.41	1.28	—	—	T7CV5D-12
		24 VDC	15.0				PB1004-ND	1.61	1.41	1.28	—	—	T7CV5D-24
—	PC Mount Socket for T7C and ORWH Relays..						PB1129-ND	1.06	.93	.84	—	—	27E1064
T7N Series Power Relay													
3	SPST-NO	12 VDC	30.0	10	Low Profile	Potter & Brumfield	PB1005-ND	1.49	1.31	1.18	—	—	T7NS1D1-12
		24 VDC	15.0				PB1006-ND	1.49	1.31	1.18	—	—	T7NS1D1-24
	SPDT	5 VDC	71.4	10	Low Profile	Potter & Brumfield	PB379-ND	1.54	1.35	1.22	—	—	T7NS5D1-05
		12 VDC	30.0				PB380-ND	1.54	1.35	1.22	—	—	T7NS5D1-12
		24 VDC	15.0				PB381-ND	1.54	1.35	1.22	—	—	T7NS5D1-24
		48 VDC	7.5				PB382-ND	1.97	1.73	1.56	—	—	T7NS5D1-48
SRUDH Series Relay													
4	SPDT	12 VDC	30.0	12	Sealed Type	OEG	PB1001-ND	1.22	1.08	.97	—	—	SRUDH-SH-112D1,000
		24 VDC	15.0				PB1002-ND	1.27	1.12	1.01	—	—	SRUDH-SH-124D1,000
ORWH Series Relay (not CSA approved)													
5	SPDT	5 VDC	71.4	10	Sealed Type	OEG	PB1134-ND	1.15	1.01	.92	—	—	ORWH-SH-105H3F,000
		9 VDC	44.4				PB1135-ND	1.15	1.01	.92	—	—	ORWH-SH-109H3F,000
		12 VDC	30.0				PB1128-ND	1.18	1.03	.94	—	—	ORWH-SH-112H3F,000
		24 VDC	15.0				PB1127-ND	1.22	1.08	.97	—	—	ORWH-SH-124H3F,000
	SPST-NO	5 VDC	71.4	15	Sealed Type	OEG	PB1131-ND	1.06	.93	.84	—	—	ORWH-SH-105HM3F,000
		12 VDC	30.0				PB1132-ND	1.06	.93	.84	—	—	ORWH-SH-112HM3F,000
		24 VDC	15.0				PB1133-ND	1.10	.97	.88	—	—	ORWH-SH-124HM3F,000
T73 Series — Low Profile Relay - Meets 3,500 Volt Surge													
6	SPDT	5 VDC	89.0	10	UL Class F	Potter & Brumfield	PB364-ND	2.40	2.10	1.90	—	—	T73S5D15-05
		12 VDC	37.5				PB365-ND	2.40	2.10	1.90	—	—	T73S5D15-12
		24 VDC	20.9				PB366-ND	2.40	2.10	1.90	—	—	T73S5D15-24
OUDH Series Relay — RoHS Compliant													
6	SPDT	12 VDC	37.5	10	Flux-Tight	OEG	PB888-ND	1.66	1.45	1.32	—	—	OUDH-SS-112D,000
T75 Series — Miniature Relay													
7	SPDT	5 VDC	42.4	14	Low Profile, Sealed Type	Potter & Brumfield	PB442-ND	3.65	3.20	2.89	—	—	T75S5D112-05
		12 VDC	18.5				PB443-ND	5.14	4.50	4.07	—	—	T75S5D112-12
		24 VDC	10.6				PB444-ND	4.39	3.85	3.48	—	—	T75S5D112-24
T77 Series Power Relay — Sealed and Semi-sealed													
8	SPST-NO	5 VDC	90.0	10	Sealed Type	Potter & Brumfield	PB367-ND	1.75	1.54	1.39	—	—	T77S1D10-05
		12 VDC	37.5				PB368-ND	1.75	1.54	1.39	—	—	T77S1D10-12
		24 VDC	18.75				PB369-ND	1.75	1.54	1.39	—	—	T77S1D10-24
		5 VDC	40.0	3	Sealed Type	Potter & Brumfield	PB370-ND	1.75	1.54	1.39	—	—	T77S1D3-05
		12 VDC	16.7				PB371-ND	1.75	1.54	1.39	—	—	T77S1D3-12
		24 VDC	8.3				PB372-ND	1.75	1.54	1.39	—	—	T77S1D3-24
		24 VDC	18.75	10	Flux-Tight	Potter & Brumfield	PB445-ND	1.73	1.52	1.37	—	—	T77V1D10-24
T81 Series — High Density Telcom Relay													
9	SPDT	5 VDC	40.0	1A	High Sensitivity	Potter & Brumfield	PB446-ND	3.34	2.92	2.65	—	—	T81H5D312-05
		12 VDC	17.1				PB740-ND	3.86	3.39	3.06	—	—	T81H5D312-12
		24 VDC	8.6				PB741-ND	3.34	2.92	2.65	—	—	T81H5D312-24
		12 VDC	37.5	1A	Standard Sensitivity	Potter & Brumfield	PB447-ND	4.08	3.57	3.23	—	—	T81N5D312-12
		24 VDC	18.75				PB448-ND	3.24	2.84	2.57	—	—	T81N5D312-24
OMI/OMIH Series Relay													
10	SPDT	12 VDC	60.0	10	Sealed Type	OEG	PB878-ND	1.51	1.33	1.20	—	—	OMI-SH-112D,394
		12 VDC	44.4				PB879-ND	1.78	1.56	1.41	—	—	OMI-SH-112L,394
		24 VDC	29.3				PB880-ND	1.78	1.56	1.41	—	—	OMI-SH-124D,300
		24 VDC	21.8				PB881-ND	1.80	1.58	1.43	—	—	OMI-SH-124L,394
	DPDT	12 VDC	60.0	5	Sealed Type	OEG	PB882-ND	2.64	2.31	2.09	—	—	OMI-SH-212D,594
		24 VDC	21.8				PB883-ND	2.33	2.04	1.85	—	—	OMI-SH-224L,594
	SPDT	5VDC	106.4	16	High Current	OEG	PB1038-ND	2.18	1.92	1.73	—	—	OMIH-SH-105L,394
		12 VDC	44.4				PB885-ND	2.18	1.92	1.73	—	—	OMIH-SH-112L,394
OMR Series Relay													
11	SPST-NO	6 VDC	24.0	0.5	Open Style	OEG	PB886-ND	1.25	1.10	.99	—	—	OMR-106H,V000
		12 VDC	11.4				PB887-ND	2.40	2.10	1.90	—	—	OMR-112H,V000

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

General Purpose PC Mount Relays *(Cont.)*

Dimensions in mm

Fig. 11 — OMR Series

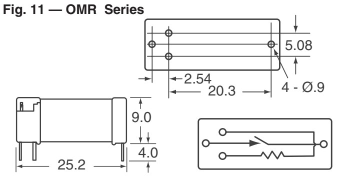

Fig. 12 — PCN Series

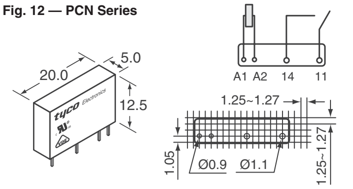

Fig. 13 — IM Series

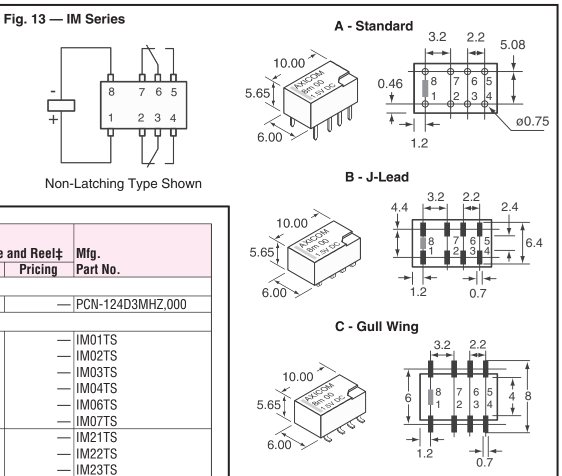

Fig. 14 — V23079 Series

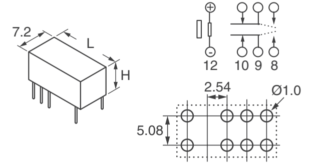

Type	Dimensions - mm L	H
Through-Hole Standard Coil	14.5	9.8
Through-Hole Overmolded Coil	14.6	9.5
SMT Long Pin, Standard Coil	14.5	10.4
SMT Long Pin, Overmolded Coil	14.6	9.9
SMT Short Pin, Overmolded Coil	14.6	9.9

Fig. 15 — V23105 Series

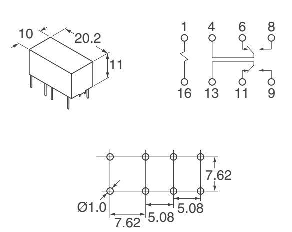

Fig. 16 — V23026 Series

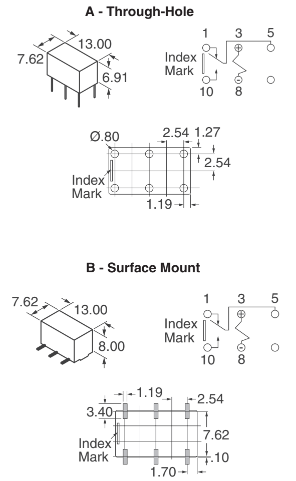

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	Tape and Reel‡ Qty.	Pricing	Mfg. Part No.
PCN Series Relay													
12	SPST-NO	24 VDC	5.0	3	Slim Sip	Schrack	PB906-ND	1.80	1.58	1.43	—	—	PCN-124D3MHZ,000
IM Series — Compact Telecom Relay													
13A	DPDT	3 VDC	46.8	2	Through-Hole Standard, Standard Coil	Axicom	PB1092-ND	2.38	2.08	1.89	—	—	IM01TS
		4.5 VDC	31.0				PB1093-ND	2.38	2.08	1.89	—	—	IM02TS
		5 VDC	28.0				PB1094-ND	2.38	2.08	1.89	—	—	IM03TS
		6 VDC	23.3				PB1095-ND	2.38	2.08	1.89	—	—	IM04TS
		12 VDC	11.6				PB1096-ND	2.57	2.25	2.04	—	—	IM06TS
		24 VDC	8.3				PB1097-ND	2.81	2.46	2.23	—	—	IM07TS
		3 VDC	16.7	2	Through-Hole Standard, Ultra High Sensitive Coil	Axicom	PB1167-ND ***NEW!***	3.36	2.94	2.66	—	—	IM21TS
		4.5 VDC	11.1				PB1168-ND ***NEW!***	3.36	2.94	2.66	—	—	IM22TS
		5 VDC	10.0				PB1169-ND ***NEW!***	3.36	2.94	2.66	—	—	IM23TS
		12 VDC	4.16				PB1170-ND ***NEW!***	3.36	2.94	2.66	—	—	IM26TS
13B	DPDT	3 VDC	46.8	2	SMT J-Lead	Axicom	PB1098CT-ND†	2.38	2.08	1.89	1,000	1238.00	IM01JR
		4.5 VDC	31.0				PB1099CT-ND†	2.38	2.08	1.89	1,000	1238.00	IM02JR
		5 VDC	28.0				PB1100CT-ND†	2.38	2.08	1.89	1,000	1238.00	IM03JR
		12 VDC	11.6				PB1065CT-ND†	2.57	2.25	2.04	1,000	1338.00	IM06JR
13C	DPDT	3 VDC	46.8	2	SMT Gull Wing	Axicom	PB1060CT-ND†	2.38	2.08	1.89	1,000	1238.00	IM01GR
		4.5 VDC	31.0				PB1089CT-ND†	2.38	2.08	1.89	1,000	1238.00	IM02GR
		5 VDC	28.0				PB1061CT-ND†	2.38	2.08	1.89	1,000	1238.00	IM03GR
		12 VDC	11.6				PB1062CT-ND†	2.57	2.25	2.04	1,000	1338.00	IM06GR
		24 VDC	8.3				PB1090CT-ND†	2.81	2.46	2.23	1,000	1463.00	IM07GR
		3 VDC	46.7	2	SMT Gull Wing, High Dielectric Version	Axicom	PB1177CT-ND† ***NEW!***	2.62	2.29	2.08	1,000	1363.00	IM01CGR
		4.5 VDC	31.1				PB1178CT-ND† ***NEW!***	2.62	2.29	2.08	1,000	1363.00	IM02CGR
		5 VDC	28.0				PB1179CT-ND† ***NEW!***	2.62	2.29	2.08	1,000	1363.00	IM03CGR
		9 VDC	15.6				PB1180CT-ND† ***NEW!***	2.62	2.29	2.08	1,000	1363.00	IM05CGR
		12 VDC	11.6				PB1181CT-ND† ***NEW!***	2.57	2.25	2.04	1,000	1338.00	IM06CGR
		24 VDC	8.3				PB1182CT-ND† ***NEW!***	3.07	2.69	2.44	1,000	1600.00	IM07CGR
		4.5 VDC	31.1	5	SMT Gull Wing, High Current Version	Axicom	PB1171CT-ND† ***NEW!***	2.62	2.29	2.08	1,000	1363.00	IM02DGR
		5 VDC	28.0				PB1172CT-ND† ***NEW!***	2.62	2.29	2.08	1,000	1363.00	IM03DGR
		9 VDC	15.6				PB1173CT-ND† ***NEW!***	2.64	2.31	2.09	1,000	1375.00	IM05DGR
		12 VDC	11.6				PB1174CT-ND† ***NEW!***	2.81	2.46	2.23	1,000	1463.00	IM06DGR
		3 VDC	16.7	2	SMT Gull Wing, Ultra High Sensitive Coil	Axicom	PB1163CT-ND† ***NEW!***	3.36	2.94	2.66	1,000	1750.00	IM21GR
		4.5 VDC	11.1				PB1164CT-ND† ***NEW!***	3.36	2.94	2.66	1,000	1750.00	IM22GR
		5 VDC	10.0				PB1165CT-ND† ***NEW!***	3.36	2.94	2.66	1,000	1750.00	IM23GR
		12 VDC	4.16				PB1166CT-ND† ***NEW!***	3.34	2.92	2.65	1,000	1738.00	IM26GR
		4.5 VDC	22.1	2	SMT Gull Wing, Latching	Axicom	PB1063CT-ND†	2.81	2.46	2.23	1,000	1463.00	IM42GR
		5 VDC	20.0				PB1064CT-ND†	2.81	2.46	2.23	1,000	1463.00	IM43GR
		12 VDC	8.3				PB1091CT-ND†	2.98	2.61	2.36	1,000	1550.00	IM46GR
		4.5 VDC	22.2	2	SMT Gull Wing, Latching, High Dielectric Version	Axicom	PB1183CT-ND† ***NEW!***	3.07	2.69	2.44	1,000	1600.00	IM42CGR
		5 VDC	20.0				PB1184CT-ND† ***NEW!***	3.07	2.69	2.44	1,000	1600.00	IM43CGR
		2.4 VDC	22.2	5	SMT Gull Wing Latching, High Current Version	Axicom	PB1175CT-ND† ***NEW!***	3.34	2.92	2.65	1,000	1738.00	IM48DGR
		4.5 VDC	41.7				PB1176CT-ND† ***NEW!***	2.64	2.31	2.09	1,000	1375.00	IM42DGR
V23079 / P2 Series — FCC Part 68, High Dielectric Relay													
14	DPDT	12 VDC	11.6	5	Through-Hole Latching, Standard Coil	Axicom	PB1085-ND	2.59	2.27	2.06	—	—	V23079B1203B301
		24 VDC	5.8				PB1084-ND	2.78	2.44	2.21	—	—	V23079B1205B301
		5 VDC	28.0	5	Through-Hole, Standard Coil	Axicom	PB288-ND	2.21	1.94	1.75	—	—	V23079A1001B301
		12 VDC	11.6				PB289-ND	2.21	1.94	1.75	—	—	V23079A1003B301
		24 VDC	5.85				PB290-ND	2.40	2.10	1.90	—	—	V23079A1005B301
		5 VDC	28.0	5	Through-Hole, Overmolded Coil	Axicom	PB1059-ND	2.21	1.94	1.75	—	—	V23079A2001B301
		12 VDC	11.6				PB1058-ND	2.21	1.94	1.75	—	—	V23079A2003B301
		5 VDC	28.0	5	SMT Long Pins, Standard	Axicom	PB1083CT-ND†	2.42	2.13	1.92	400	505.20	V23079D1001B301
		12 VDC	11.6				PB1057CT-ND†	2.42	2.13	1.92	400	505.20	V23079D1003B301
		24 VDC	5.8				PB1056CT-ND†	2.66	2.34	2.11	400	555.20	V23079D1005B301
		5 VDC	14.0	5	SMT Long Pins, Latching, Standard Coil	Axicom	PB1079CT-ND†	2.71	2.38	2.15	400	565.20	V23079F1101B301
		5 VDC	28.0				PB1080CT-ND†	2.71	2.38	2.15	400	565.20	V23079E1201B301
		5 VDC	28.0	5	SMT Long Pins, Overmolded Coil	Axicom	PB1082CT-ND†	2.42	2.13	1.92	2,000	1263.00/M	V23079D2001B301
		12 VDC	11.6				PB1081CT-ND†	2.42	2.13	1.92	400	505.20	V23079D2003B301
		12 VDC	11.6	5	SMT Short Pins,	Axicom	PB1078CT-ND†	2.42	2.13	1.92	500	631.50	V23079G2003B301
V23105 / D2n Series — High Sensitivity Relay													
15	DPDT	5 VDC	30.0	3	High Sensitivity	Axicom	PB383-ND	1.82	1.60	1.45	—	—	V23105A5001A201
		9 VDC	16.6				PB1077-ND	1.82	1.60	1.45	—	—	V23105A5006A201
		12 VDC	12.5				PB384-ND	1.82	1.60	1.45	—	—	V23105A5003A201
		24 VDC	6.25				PB385-ND	1.97	1.73	1.56	—	—	V23105A5005A201
		5 VDC	40.0	3	Medium Sensitivity	Axicom	PB386-ND	1.82	1.60	1.45	—	—	V23105A5301A201
		12 VDC	16.7				PB387-ND	1.82	1.60	1.45	—	—	V23105A5303A201
		24 VDC	8.33				PB388-ND	1.97	1.73	1.56	—	—	V23105A5305A201
		48 VDC	4.16				PB389-ND	2.74	2.40	2.17	—	—	V23105A5307A201
		5 VDC	80.0	3	Medium-Low Sensitivity	Axicom	PB1076-ND	1.80	1.58	1.43	—	—	V23105A5401A201
		12 VDC	33.3				PB1055-ND	1.80	1.58	1.43	—	—	V23105A5403A201
		24 VDC	16.6				PB1054-ND	1.92	1.68	1.52	—	—	V23105A5405A201
		48 VDC	8.3				PB1075-ND	2.69	2.36	2.13	—	—	V23105A5407A201
		5 VDC	110.0	3	Low Sensitivity	Axicom	PB1074-ND	1.80	1.58	1.43	—	—	V23105A5501A201
		12 VDC	46.0				PB1073-ND	1.80	1.58	1.43	—	—	V23105A5503A201
		24 VDC	22.8				PB1072-ND	1.92	1.68	1.52	—	—	V23105A5505A201
V23026 / P1 Series — Miniature Relay (Up to 1 Billion Operations!)													
16A	SPDT	5 VDC	13.5	1	Through-Hole Terminal	Axicom	PB282-ND	4.20	3.68	3.33	—	—	V23026A1001B201
		12 VDC	5.3				PB283-ND	4.20	3.68	3.33	—	—	V23026A1002B201
		24 VDC	5.3				PB284-ND	4.51	3.95	3.58	—	—	V23026A1004B201
16B	SPDT	5 VDC	16.0	1	SMT Terminal	Axicom	PB285CT-ND†	4.61	4.04	3.65	480	1152.00	V23026D1021B201
		12 VDC	6.6				PB286CT-ND†	4.61	4.04	3.65	480	1152.00	V23026D1022B201
		24 VDC	5.3				PB287CT-ND†	4.97	4.35	3.94	480	1242.24	V23026D1024B201

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND.

Miniature PCB, Telecom, Signal and RF Relays

RoHS COMPLIANT

**** All relays are UL, CSA approved***

Mounting hole connection diagrams are all bottom view unless otherwise noted

Dimensions in mm

Fig. 1 — TSC Series

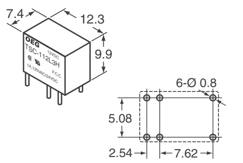

Fig. 2 — HF3 Series

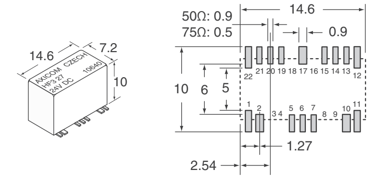

Fig. 3 — V23092 Series

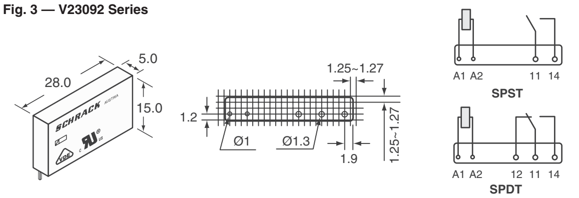

Fig. 4 — PE Series

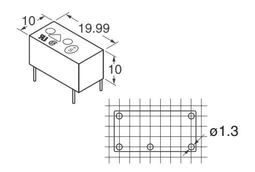

Fig. 5 — RE Series

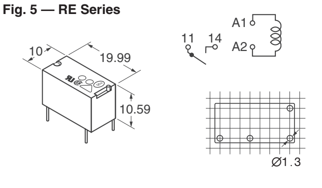

Fig. 6 — PB Series

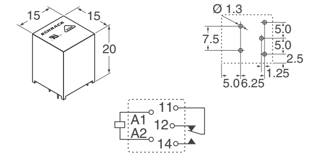

Fig. 7 — OJE Series

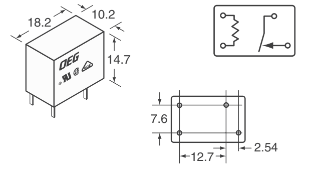

Fig. 8 — FP2 Series

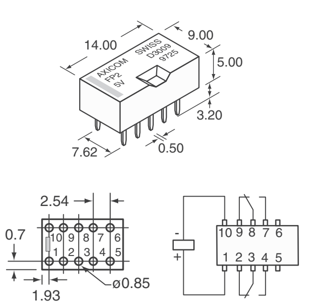

Fig.	Contact Arrange.	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Mfg. Part No.
TSC Series — Miniature Relay												
1	SPDT	5 VDC	30.1	1	Standard Coil	OEG	PB1016-ND	1.68	1.47	1.33	1.05	TSC-105D3H,000
		12 VDC	12.5		Standard Coil		PB1018-ND	1.68	1.47	1.33	1.05	TSC-112D3H,000
		5 VDC	30.1	1	Sensitive Coil	OEG	PB1017-ND	1.68	1.47	1.33	1.05	TSC-105L3H,000
		12 VDC	12.5	1	Sensitive Coil Input	OEG	PB647-ND	1.70	1.50	1.35	1.07	TSC-112L3H
		24 VDC	6.3		Sensitive Coil Input		PB648-ND	1.92	1.68	1.52	1.20	TSC-124L3H
HF3 Series — High Frequency Relay												
2	SPDT	3 VDC	46.8	2	50Ω Version	Axicom	PB1102CT-ND†	4.10	3.60	3.25	2.57	HF351
		3 VDC	46.8				PB1102TR-ND‡		855.20/400			HF351
		24 VDC	5.8				PB1101CT-ND†	6.74	5.91	5.34	4.22	HF357
		24 VDC	5.8				PB1101TR-ND‡		1405.20/400			HF357
		3 VDC	46.8	2	75Ω Version	Axicom	PB1104CT-ND†	4.22	3.70	3.35	2.64	HF301
		3 VDC	46.8				PB1104TR-ND‡		880.00/400			HF301
		5 VDC	28.0				PB1103CT-ND†	4.22	3.70	3.35	2.64	HF303
		5 VDC	28.0				PB1103TR-ND‡		880.00/400			HF303
		12 VDC	11.6				PB1105CT-ND†	4.27	3.74	3.39	2.67	HF306
		12 VDC	11.6				PB1105TR-ND‡		890.00/400			HF306
V23092 Series — Slim PCB Relay SNR												
3	SPDT	12 VDC	14.1	6	Slim Style	Schrack	PB1019-ND	11.54	10.11	9.14	7.22	V23092-A1012-A301
	SPST-NO	24 VDC	6.1	6	Slim Style	Schrack	PB1020-ND	12.12	10.61	9.60	7.58	V23092-A1024-A302
PE Series — Miniature Power Relay												
4	SPDT	5 VDC	40	5	Flux Proof	Schrack	PB353-ND	4.37	3.83	3.46	2.73	PE014005
		6 VDC	34.8				PB907-ND	4.37	3.83	3.46	2.73	PE014006
		12 VDC	16.7				PB354-ND	4.37	3.83	3.46	2.73	PE014012
		24 VDC	8.3				PB355-ND	4.37	3.83	3.46	2.73	PE014024
RE Series — Lower Profile Power Relay												
5	SPST-NO	5 VDC	40	6	AgCdO	Schrack	PB356-ND	5.50	4.81	4.36	3.44	RE030005
		6 VDC	33				PB742-ND	5.50	4.81	4.36	3.44	RE030006
		12 VDC	16.7				PB357-ND	5.50	4.81	4.36	3.44	RE030012
		24 VDC	8.3				PB358-ND	5.50	4.81	4.36	3.44	RE030024
		48 VDC	4.1				PB743-ND	7.54	6.60	5.97	4.71	RE030048
		5 VDC	40	6	Gold Over Nickel	Schrack	PB744-ND	5.50	4.81	4.36	3.44	RE032005
		6 VDC	33				PB745-ND	6.12	5.36	4.85	3.83	RE032006
		12 VDC	16.7				PB746-ND	6.70	5.86	5.31	4.19	RE032012
		24 VDC	8.3				PB747-ND	6.77	5.93	5.36	4.23	RE032024
		48 VDC	4.1				PB748-ND	6.91	6.05	5.48	4.32	RE032048
PB Series — Cube Power Relay												
6	SPST	5 VDC	71.4	10	Ag90Ni10	Schrack	PB766-ND	1.13	.99	.90	.71	PB134005
		6 VDC	60				PB767-ND	1.44	1.26	1.14	.90	PB134006
		12 VDC	30				PB768-ND	1.51	1.33	1.20	.95	PB134012
		24 VDC	15				PB769-ND	1.61	1.41	1.28	1.01	PB134024
	SPDT	12 VDC	30	10	Ag90Ni10	Schrack	PB889-ND	1.20	1.05	.95	.75	PB114012
		24 VDC	15				PB765-ND	1.30	1.14	1.03	.81	PB114024
OJE Series Relay												
7	SPST-NO	5 VDC	40	5	Sealed Case	OEG	PB874-ND	1.22	1.08	.97	.77	OJE-SH-105DM,000
		12 VDC	16.7				PB875-ND	1.25	1.10	.99	.78	OJE-SH-112DM,000
		24 VDC	8.6				PB877-ND	1.10	.97	.88	.69	OJE-SH-124DM,000
		12 VDC	16.7	10	High Current Sealed	OEG	PB876-ND	1.15	1.01	.92	.72	OJE-SH-112HM,000
FP2 Series Relay												
8	DPDT	5 VDC	28.0	2	Standard Sensitivity	Axicom	PB1119-ND	2.21	1.94	1.75	1.38	D3009
		12 VDC	11.6				PB1067-ND	2.21	1.94	1.75	1.38	D3002
		24 VDC	8.3				PB1120-ND	2.40	2.10	1.90	1.50	D3012
		5 VDC	15.9	2	High Sensitivity	Axicom	PB1066-ND	2.95	2.59	2.34	1.85	D3023
		12 VDC	6.6				PB1118-ND	2.95	2.59	2.34	1.85	D3026
		5 VDC	20.0	2	1 Coil, Latching	Axicom	PB1116-ND	2.45	2.15	1.94	1.53	D3043
		12 VDC	8.3				PB1117-ND	2.45	2.15	1.94	1.53	D3046
		5 VDC	40.0	2	2 Coils, Latching	Axicom	PB1114-ND	2.59	2.27	2.06	1.62	D3063
		12 VDC	16.6				PB1115-ND	2.59	2.27	2.06	1.62	D3066
FX Series Relay												
9	DPDT	4.5 VDC	31.0	2	Standard Coil	Axicom	PB1110-ND	2.21	1.94	1.75	1.38	D3204
		5 VDC	28.0				PB1111-ND	2.21	1.94	1.75	1.38	D3209
		12 VDC	11.6				PB1112-ND	2.21	1.94	1.75	1.38	D3202
		24 VDC	8.3				PB1113-ND	2.40	2.10	1.90	1.50	D3212
		4.5 VDC	12.7	2	1 Coil, Latching	Axicom	PB1106-ND	2.95	2.59	2.34	1.85	D3222
		5 VDC	15.9				PB1107-ND	2.95	2.59	2.34	1.85	D3223
		12 VDC	6.6				PB1108-ND	2.95	2.59	2.34	1.85	D3226
		24 VDC	5.8				PB1109-ND	3.14	2.76	2.49	1.97	D3227
MT2 Series Relay												
10	DPDT	5 VDC	29.7	2	High Sensitivity	Axicom	PB1124-ND	1.82	1.60	1.45	1.14	C93401
		12 VDC	12.3				PB1125-ND	1.82	1.60	1.45	1.14	C93402
		24 VDC	6.1				PB1126-ND	1.97	1.73	1.56	1.23	C93403
		5 VDC	40.0	2	Standard Sensitivity	Axicom	PB1121-ND	1.82	1.60	1.45	1.14	C93416
		12 VDC	16.6				PB1122-ND	1.82	1.60	1.45	1.14	C93418
		24 VDC	8.3				PB1123-ND	1.97	1.73	1.56	1.23	C93419

† Cut Tape ‡ Tape and Reel

Fig. 9 — FX Series

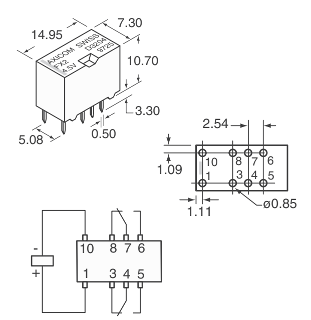

Fig. 10 — MT2 Series

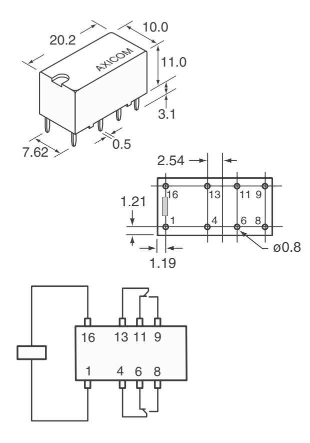

PC Mount and General Purpose Relays

***All relays are UL, CSA approved**

Mounting hole connection diagrams are all bottom view unless otherwise noted

Dimensions in mm

Fig. 1 — RT Series (RY Series)

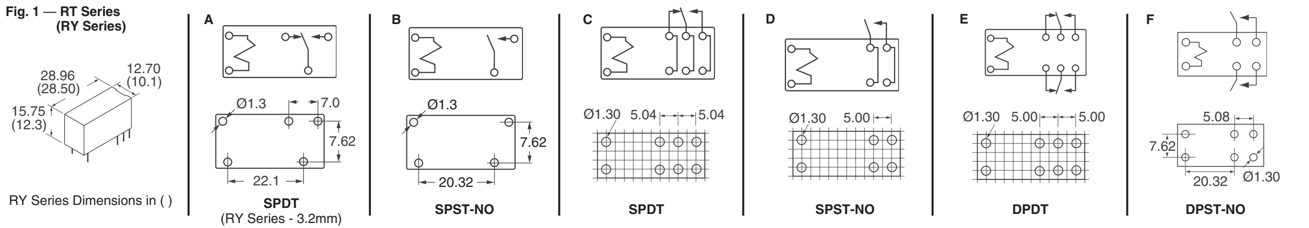

Fig. 2 — PCH Series

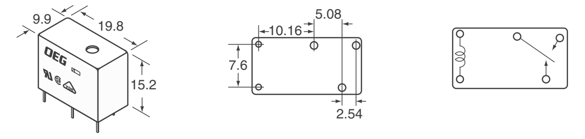

Fig. 3 — PCJ Series

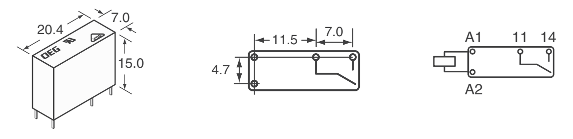

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Features	Brand Name	Digi-Key Part No.	Price Each			Mfg. Part No.
								1	25	50	
RT Series — Low Profile Power PCB Relay — RoHS Compliant											
1A	SPDT	5 VDC	80.6	12	Sealed Black Case	Potter & Brumfield	PB359-ND	2.16	1.89	1.71	RTB14005F
		12 VDC	33.3				PB449-ND§	3.43	3.01	2.72	RT114012F
		12 VDC	33.3				PB360-ND	1.73	1.52	1.37	RTB14012F
		24 VDC	16.7				PB361-ND	1.73	1.52	1.37	RTB14024F
		24 VDC	16.7				PB956-ND§	3.43	3.01	2.72	RT114024F
		12 VDC	33.3	12	Sealed Orange Case	Schrack	PB974-ND	2.59	2.27	2.06	RTB14012
		24 VDC	16.7				PB975-ND	2.59	2.27	2.06	RTB14024
		24 VDC	16.7				PB955-ND§	2.59	2.27	2.06	RT114024
		24 VAC	—				PB976-ND	5.09	4.46	4.03	RTB14524
		115 VAC	—				PB977-ND	5.40	4.73	4.28	RTB14615
		230 VAC	—				PB978-ND	7.25	6.35	5.74	RTB14730
1B	SPST-NO	12 VDC	33.3	12	Sealed Black Case	Potter & Brumfield	PB362-ND	3.43	3.01	2.72	RTB34012F
		12 VDC	33.3	16	Sealed Orange Case	Schrack	PB1137-ND	12.31	10.78	9.75	RTS3T012
		12 VDC	33.3				PB1139-ND	14.35	12.56	11.37	RTS3TA12
		12 VDC	33.3				PB1140-ND	17.83	15.61	14.12	RTT3TA12
		24 VDC	16.7				PB1138-ND	12.31	10.78	9.75	RTS3T024
		24 VDC	16.7	12	Sealed Black Case	Potter & Brumfield	PB363-ND	3.19	2.80	2.53	RTB34024F
		24 VDC	16.7	16			PB966-ND§	3.05	2.67	2.42	RT334024F
		12 VDC	33.3	16	Sealed Orange Case	Schrack	PB984-ND	2.71	2.38	2.15	RTD34012
1C	SPDT	5 VDC	80.6	16	Sealed Black Case	Potter & Brumfield	PB291-ND	2.76	2.42	2.19	RTD14005F
		12 VDC	33.3				PB292-ND	3.02	2.65	2.40	RTD14012F
		12 VDC	33.3				PB958-ND§	3.05	2.67	2.42	RT314012F
		12 VDC	33.3	16	Sealed Orange Case	Schrack	PB1141-ND	2.30	2.02	1.83	RTH14012
		24 VDC	16.7	16	Sealed Black Case	Potter & Brumfield	PB668-ND	3.02	2.65	2.40	RTD14024F
		24 VDC	16.7				PB960-ND§	2.11	1.85	1.68	RT314024F
		5 VDC	80.6	16	Sealed Orange Case	Schrack	PB979-ND	2.76	2.42	2.19	RTD14005
		12 VDC	33.3				PB980-ND	2.76	2.42	2.19	RTD14012
		24 VDC	16.7				PB959-ND§	2.76	2.42	2.19	RT314024
		115 VAC	—				PB961-ND§	3.50	3.07	2.78	RT314615
		230 VAC	—				PB962-ND§	3.36	2.94	2.66	RT314730
		12 VDC	50.0	16	2 Coil, Latching	Schrack	PB963-ND§	2.71	2.38	2.15	RT314F12
		24 VDC	27.0	16			PB1086-ND§	2.76	2.42	2.19	RT314F24
		24 VDC	16.7	8			PB973-ND§	2.86	2.50	2.27	RT424F24
		12 VDC	33.3	16	1 Coil, Latching	Schrack	PB1088-ND§	2.50	2.19	1.98	RT314A12
		24 VDC	16.7				PB1087-ND§	2.59	2.27	2.06	RT314A24
1D	SPDT	24 VDC	16.7	16	Sealed Orange Case	Schrack	PB981-ND	2.76	2.42	2.19	RTD14024
		48 VDC	8.7				PB982-ND	3.91	3.43	3.10	RTD14048
		115 VAC	—				PB983-ND	5.40	4.73	4.28	RTD14615
	SPST-NO	12 VDC	33.3	16	Sealed Orange Case	Schrack	PB964-ND§	2.71	2.38	2.15	RT334012
		24 VDC	16.7				PB965-ND§	2.71	2.38	2.15	RT334024
	SPST-NO	12 VDC	33.3	16	Sealed Black Case	Potter & Brumfield	PB293-ND	3.43	3.01	2.72	RTD34012F
		24 VDC	16.7				PB294-ND	3.43	3.01	2.72	RTD34024F
1E	DPDT	5 VDC	80.6	8	Sealed Black Case	Potter & Brumfield	PB295-ND	2.78	2.44	2.21	RTE24005F
		6 VDC	66.7				PB987-ND	1.85	1.62	1.47	RTE24006F
		12 VDC	33.3				PB296-ND	3.05	2.67	2.42	RTE24012F
		12 VDC	33.3				PB968-ND§	1.90	1.66	1.51	RT424012F
		24 VDC	16.7				PB297-ND	2.45	2.15	1.94	RTE24024F
		5 VDC	80.6	8	Sealed Orange Case	Schrack	PB985-ND	2.76	2.42	2.19	RTE24005
		6 VDC	66.7				PB986-ND	1.85	1.62	1.47	RTE24006
		12 VDC	33.3				PB988-ND	2.76	2.42	2.19	RTE24012
		12 VDC	33.3				PB967-ND§	2.76	2.42	2.19	RT424012
		24 VDC	16.7				PB989-ND	2.76	2.42	2.19	RTE24024
		24 VDC	16.7	8	Sealed Orange Case	Schrack	PB969-ND§	2.76	2.42	2.19	RT424024
		24 VAC	—				PB970-ND§	4.01	3.51	3.18	RT424524
		48 VDC	8.7				PB990-ND	2.90	2.55	2.30	RTE24048
		115 VAC	—				PB971-ND§	4.87	4.27	3.86	RT424615
		230 VAC	—				PB991-ND	7.34	6.43	5.82	RTE24730
		230 VAC	—				PB972-ND§	3.17	2.78	2.51	RT424730
1F	DPST-NO	12 VDC	33.3	8	Sealed Black Case	Potter & Brumfield	PB450-ND	2.06	1.81	1.64	RTE44012F
		24 VDC	16.7				PB992-ND	3.05	2.67	2.42	RTE44024F
RY Series — Miniature Sealed PCB Relay — RoHS Compliant											
1A	SPDT	12 VDC	19.3	8	Silver Cadmium	Schrack	PB993-ND§	3.74	3.28	2.97	RY210012
		24 VDC	10.2				PB994-ND§	3.74	3.28	2.97	RY210024
		24 VDC	10.2	8	Silver Over Nickel	Schrack	PB995-ND§	3.74	3.28	2.97	RY211024
		5 VDC	44.6	8	Silver Cadmium; Sealed	Schrack	PB649-ND	3.74	3.28	2.97	RY610005
		12 VDC	19.3				PB650-ND	3.74	3.28	2.97	RY610012
		24 VDC	10.2				PB651-ND	3.74	3.28	2.97	RY610024
		12 VDC	19.3	8	Silver Over Nickel; Sealed	Schrack	PB996-ND	3.74	3.28	2.97	RY611012
		24 VDC	10.2				PB997-ND	3.74	3.28	2.97	RY611024
PCH Series Relay — RoHS Compliant											
2	SPDT	5 VDC	80.0	5	Sealed Case	OEG	PB890-ND	1.61	1.41	1.28	PCH-105D2H,000
		12 VDC	33.3				PB891-ND	1.61	1.41	1.28	PCH-112D2H,000
		24 VDC	11.1				PB892-ND	1.66	1.45	1.32	PCH-124D2H,000
PCJ Series Relay — RoHS Compliant											
3	SPST-NO	5 VDC	40.0	5	Sealed Case	Schrack	PB893-ND	1.42	1.24	1.13	PCJ-105D3MH,000
		12 VDC	16.6				PB894-ND	1.39	1.22	1.11	PCJ-112D3MH,000
		24 VDC	8.3				PB895-ND	1.44	1.26	1.14	PCJ-124D3MH,000

§ Flux-Tight Version

(Continued)

PC Mount and General Purpose Relays *(Cont.)*

Fig.	Description	Use With Series	Digi-Key Part No.	Price Each 1	25	50	100	Mfg. Part No.
	RT and RY Sockets and Accessories — RoHS Compliant							
1	DIN Rail "Module Option" Socket for SP 3.5mm Pin Spacing	RT	PB779-ND	3.02	2.65	2.40	1.89	RT78724
1	DIN Rail "Module Option" Socket for SP and DP 5mm Pin Spacing		PB780-ND	3.89	3.41	3.08	2.43	RT78726
—	Relay Retaining Clip for RP78XXX Din Rail Sockets, RT Relays		PB749-ND	.79	.70	.63	.50	RT16016
—	Indicator Module 110-230VAC Red LED		PB752-ND	7.42	6.49	5.88	4.64	RPML0730
2	PCB Mount Socket for 3.5mm Pin Spacing, 10A		PB667-ND	2.62	2.29	2.08	1.64	RP78601
2	PCB Mount Socket for 5mm Pin Spacing, 10A	RT	PB525-ND	2.62	2.29	2.08	1.64	RP78602
—	Metal Relay Retaining Clip for PBC Socket		PB957-ND	.19	.17	.16	.12	RT28516
—	Plastic Relay Retaining Clip for PC Mount Sockets, RT Series		PB778-ND	.34	.30	.27	.21	RT16041
—	Plastic Relay Retaining Clip for PC Mount Sockets, RY Series	RY	PB777-ND	.41	.36	.33	.26	RP16100

Fig. 1

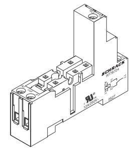

Fig. 2

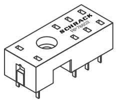

Dimensions in mm

Fig. 1 — K10 Series

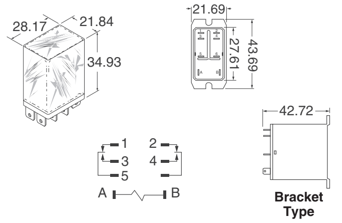

Fig. 2 — R10 Series

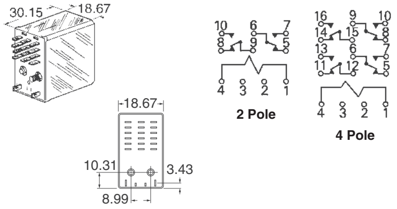

Fig. 3 — KH Series

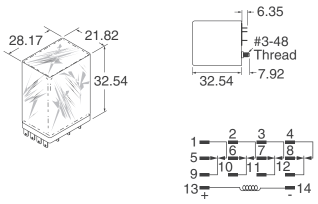

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Mfg. Part No.
					K10 Series — General Purpose Miniature Power Relay								
1	DPDT	12 VAC	100	15	.187 (4.75) QC	—	Potter & Brumfield	PB319-ND◆	8.86	7.75	7.02	5.54	K10P-11A15-12
		24 VAC	52	15	.187 (4.75) QC	—		PB320-ND◆	8.86	7.75	7.02	5.54	K10P-11A15-24
		120 VAC	11	15	.187 (4.75) QC	—		PB321-ND◆	8.86	7.75	7.02	5.54	K10P-11A15-120
		240 VAC	—	15	.187 (4.75) QC	—		PB829-ND◆	9.14	8.01	7.24	5.72	K10P-11A15-240
		6 VDC	150	15	.187 (4.75) QC	—		PB323-ND◆	8.86	7.75	7.02	5.54	K10P-11D15-6
		12 VDC	75	15	.187 (4.75) QC	—	Potter & Brumfield	PB324-ND◆	8.86	7.75	7.02	5.54	K10P-11D15-12
		24 VDC	37	15	.187 (4.75) QC	—		PB325-ND◆	8.86	7.75	7.02	5.54	K10P-11D15-24
		110 VDC	10	15	.187 (4.75) QC	—		PB326-ND◆	8.86	7.75	7.02	5.54	K10P-11D15-110
		12 VDC	75	15	PC Mount	—	Potter & Brumfield	PB327-ND◆	8.86	7.75	7.02	5.54	K10P-11D55-12
		24 VDC	37	15	PC Mount	—		PB328-ND◆	8.86	7.75	7.02	5.54	K10P-11D55-24
		110 VDC	10	15	PC Mount	—		PB451-ND◆	8.86	7.75	7.02	5.54	K10P-11D55-110
		12 VDC	75	15	.187 (4.75) QC	With Bracket	Potter & Brumfield	PB329-ND◆	9.14	8.01	7.24	5.72	K10P-11DT5-12
		24 VDC	37	15	.187 (4.75) QC	With Bracket		PB330-ND	9.14	8.01	7.24	5.72	K10P-11DT5-24
		120 VAC	11	15	.187 (4.75) QC	With Bracket		PB322-ND◆	9.14	8.01	7.24	5.72	K10P-11AT5-120
					R10 Series — General Purpose Power Relay								
2	DPDT	6 VDC	115	3	Plug-In	—	Potter & Brumfield	PB116-ND◆	16.15	14.14	12.79	10.10	R10-E1Y2-V52
		12 VDC	64	3	Plug-In	—		PB117-ND◆	16.15	14.14	12.79	10.10	R10-E1Y2-V185
		12 VDC	20	3	Plug-In	—		PB776-ND◆	33.36	29.19	26.41	20.85	R10S-E1Y2-J5.0K
		24 VDC	34	3	Plug-In	—		PB118-ND◆	16.15	14.14	12.79	10.10	R10-E1Y2-V700
		24 VDC	55.8	3	Plug-In	—		PB774-ND◆	15.67	13.72	12.41	9.80	R10-E1Y2-J1.0K
		24 VDC	55.8	3	Plug-In	—	Potter & Brumfield	PB770-ND◆	19.39	16.97	15.36	12.12	R10-E1P2-V700
		48 VDC	19	3	Plug-In	—		PB119-ND◆	16.15	14.14	12.79	10.10	R10-E1Y2-V2.5K
	4PDT	6 VDC	115	3	Plug-In	—	Potter & Brumfield	PB120-ND	17.30	15.15	13.70	10.82	R10-E1Y4-V52
		12 VDC	64	3	Plug-In	—		PB121-ND◆	17.30	15.15	13.70	10.82	R10-E1Y4-V185
		24 VDC	34	3	Plug-In	—		PB122-ND◆	17.30	15.15	13.70	10.82	R10-E1Y4-V700
		48 VDC	19	3	Plug-In	—		PB123-ND◆	17.30	15.15	13.70	10.82	R10-E1Y4-V2.5K
		24 VDC	34	7.5	Plug-In	—		PB772-ND◆	26.78	23.44	21.21	16.74	R10-E1W4-V700
	DPDT	6 VDC	115	5	Plug-In	—	Potter & Brumfield	PB124-ND◆	15.82	13.84	12.53	9.89	R10-E1X2-V52
		12 VDC	64	5	Plug-In	—		PB125-ND◆	15.82	13.84	12.53	9.89	R10-E1X2-V185
		24 VDC	34	5	Plug-In	—		PB126-ND◆	15.82	13.84	12.53	9.89	R10-E1X2-V700
		48 VDC	19	5	Plug-In	—		PB127-ND◆	15.82	13.84	12.53	9.89	R10-E1X2-V2.5K
		115 VAC	—	5	Plug-In	—		PB598-ND◆	30.53	26.72	24.17	19.08	R10-E1X2-115V
		24 VDC	34	7.5	Plug-In	—	Potter & Brumfield	PB454-ND◆	17.06	14.94	13.51	10.67	R10-E1W2-V700
		12 VDC	64	7.5	Plug-In	—		PB771-ND◆	17.06	14.94	13.51	10.67	R10-E1W2-V185
	4PDT	24 VDC	34	5	PC Mount	—	Potter & Brumfield	PB452-ND◆	15.82	13.84	12.53	9.89	R10-E2X2-V700
		12 VDC	64	5	Plug-In	—		PB129-ND◆	18.48	16.17	14.63	11.55	R10-E1X4-V185
		24 VDC	34	5	Plug-In	—		PB130-ND◆	18.48	16.17	14.63	11.55	R10-E1X4-V700
		48 VDC	19	5	Plug-In	—		PB131-ND◆	18.48	16.17	14.63	11.55	R10-E1X4-V2.5K
		24 VDC	34	5	Plug-In	—		PB453-ND◆	26.59	23.27	21.06	16.62	R10-E1M4-V700
		115 VAC	—	5	Plug-In	—		PB599-ND	39.70	34.74	31.43	24.81	R10-E1X4-115V
	6PDT	12 VDC	133	5	Plug-In	—	Potter & Brumfield	PB773-ND◆	32.52	28.46	25.75	20.33	R10-E1X6-V90
		24 VDC	430	5	Plug-In	—		PB600-ND◆	32.52	28.46	25.75	20.33	R10-E1X6-V430
		24 VDC	430	2	Plug-In	—		PB775-ND◆	34.13	29.87	27.02	21.33	R10-E1Z6-V430
					KH Series — General Purpose Low Cost Power Relay — RoHS Compliant §								
3	DPDT	12 VDC	75	5	Plug-In	—	Potter & Brumfield	PB455-ND	7.87	6.89	6.24	4.92	KHAU-11D12-12
		24 VDC	37	3	Plug-In	—		PB730-ND	7.87	6.89	6.24	4.92	KHAU-11D11-24
		120 VAC	—	5	Plug-In	—		PB729-ND	8.38	7.33	6.64	5.24	KHAU-11A11-120
	4PDT	12 VAC	—	3	Plug-In	—	Potter & Brumfield	PB731-ND	7.87	6.89	6.24	4.92	KHAU-17A11-12
		24 VAC	—	3	Plug-In	—		PB139-ND	7.87	6.89	6.24	4.92	KHAU-17A11-24
		120 VAC	—	3	Plug-In	—		PB604-ND	31.49	27.56	24.93	19.68	KHU-17A11-120
		120 VAC	—	3	Plug-In	—		PB140-ND	8.86	7.75	7.02	5.54	KHAU-17A11-120
		120 VAC	—	3	Plug-In	With Indicator Light		PB141-ND	10.82	9.48	8.57	6.77	KHAU-17A11N-120
		120 VAC	—	5	Plug-In	—	Potter & Brumfield	PB456-ND	7.87	6.89	6.24	4.92	KHAU-17A12-120
		120 VAC	—	5	Plug-In	With Indicator Light		PB830-ND	11.33	9.92	8.97	7.08	KHAU-17A12H-120
		24 VAC	—	1	Plug-In	Gold Over Silver Contact		PB457-ND	30.02	26.28	23.77	18.77	KHAU-17A16-24
		120 VAC	—	1	Plug-In	Gold Over Silver Contact		PB601-ND	30.98	27.12	24.53	19.37	KHAU-17A16-120
		120 VAC	—	1	Plug-In	Gold Over Silver Contact		PB732-ND	9.84	8.61	7.79	6.15	KHAU-17A18-120

◆ ***RoHS Compliant*** § KHA Sockets will fit sockets designed for PT/PTH Series

(Continued)

PC Mount and General Purpose Relays *(Cont.)*

Dimensions in mm

Fig. 4 — KU Series

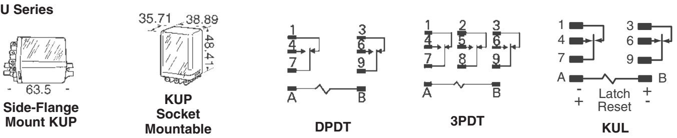

Side-Flange Mount KUP

KUP Socket Mountable

DPDT

3PDT

KUL

Fig. 5 — PCLH Series

For Plug-in relays, use K10 Sockets

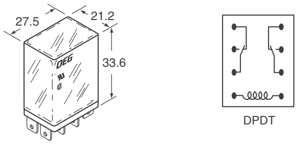

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each				Mfg. Part No.
									1	25	50	100	
3	4PDT	12 VDC	75	3	Plug-In	—	Potter & Brumfield	PB605-ND	9.84	8.61	7.79	6.15	KHU-17D11-12
		24 VDC	37	3	Plug-In	—		PB606-ND	9.84	8.61	7.79	6.15	KHU-17D11-24
		6 VDC	150	3	Plug-In	—		PB831-ND	7.87	6.89	6.24	4.92	KHAU-17D11-6
		12 VDC	75	3	Plug-In	—		PB142-ND	7.87	6.89	6.24	4.92	KHAU-17D11-12
		24 VDC	37	3	Plug-In	—		PB143-ND	7.87	6.89	6.24	4.92	KHAU-17D11-24
		48 VDC	18	3	Plug-In	—	Potter & Brumfield	PB734-ND	8.86	7.75	7.02	5.54	KHAU-17D11-48
		120 VAC	—	3	Plug-In	—		PB733-ND	8.86	7.75	7.02	5.54	KHAU-17D11-110
		12 VDC	75	5	Plug-In	—		PB602-ND	7.87	6.89	6.24	4.92	KHAU-17D12-12
		24 VDC	37	5	Plug-In	—		PB458-ND	7.87	6.89	6.24	4.92	KHAU-17D12-24
		12 VDC	75	1	Plug-In	Gold Over Silver Contact		PB735-ND	24.67	21.59	19.54	15.42	KHAU-17D16-12
		24 VDC	37	1	Plug-In	Gold Over Silver Contact	Potter & Brumfield	PB603-ND	26.86	23.50	21.27	16.79	KHAU-17D16-24
		110 VDC	10	5	Plug-In	—		PB832-ND	8.23	7.21	6.52	5.15	KHAU-17D12-110
KU Series — Enclosed Relay													
4	DPDT	24 VAC	—	10	.187 (4.75) QC	—	Potter & Brumfield	PB151-ND◆	11.81	10.34	9.35	7.38	KUP-11A15-24
		120 VAC	—	10	.187 (4.75) QC	—		PB152-ND◆	11.81	10.34	9.35	7.38	KUP-11A15-120
		12 VDC	100	10	.187 (4.75) QC	—		PB153-ND◆	11.81	10.34	9.35	7.38	KUP-11D15-12
		24 VDC	51	10	.187 (4.75) QC	—		PB154-ND	11.81	10.34	9.35	7.38	KUP-11D15-24
		110 VDC	11	10	.187 (4.75) QC	—		PB610PB-ND◆	11.81	10.34	9.35	7.38	KUP-11D15-110
		12 VDC	100	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB155-ND◆	11.33	9.92	8.97	7.08	KUP-11D55-12
		24 VDC	51	10	.187 (4.75) QC	Side Flange		PB156-ND◆	11.33	9.92	8.97	7.08	KUP-11D55-24
		24 VAC	—	10	.187 (4.75) QC	Side Flange		PB222-ND◆	11.81	10.34	9.35	7.38	KUP-11A55-24
		120 VAC	—	10	.187 (4.75) QC	Side Flange		PB463-ND◆	12.31	10.78	9.75	7.70	KUP-11A55-120
	DPST	24 VDC	75	10	.187 (4.75) QC	High Iso-Side Flange	Potter & Brumfield	PB223-ND◆	21.72	19.01	17.20	13.58	KUGP-7D55-24
	SPDT	240 VAC	26	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB857-ND◆	14.76	12.92	11.69	9.23	KUP-5A15-240
	3PDT	120 VAC	24	5	.187 (4.75) QC	—	Potter & Brumfield	PB611-ND◆	13.78	12.06	10.91	8.61	KUP-14A11-120
		24 VAC	—	10	.187 (4.75) QC	—		PB157-ND◆	13.78	12.06	10.91	8.61	KUP-14A15-24
		120 VAC	—	10	.187 (4.75) QC	—		PB158-ND◆	13.78	12.06	10.91	8.61	KUP-14A15-120
		240 VAC	12	10	.187 (4.75) QC	—		PB612-ND◆	14.26	12.48	11.29	8.91	KUP-14A15-240
		12 VDC	100	10	.187 (4.75) QC	—		PB159-ND◆	12.79	11.20	10.13	8.00	KUP-14D15-12
		24 VDC	51	10	.187 (4.75) QC	—	Potter & Brumfield	PB160-ND◆	12.79	11.20	10.13	8.00	KUP-14D15-24
		48 VDC	26.7	10	.187 (4.75) QC	—		PB855-ND◆	13.78	12.06	10.91	8.61	KUP-14D15-48
		110 VDC	11	10	.187 (4.75) QC	—		PB613-ND◆	13.30	11.64	10.53	8.31	KUP-14D15-110
		24 VAC	—	10	.187 (4.75) QC	With Indicator Light		PB464-ND◆	14.76	12.92	11.69	9.23	KUP-14A35-24
		24 VDC	51	10	.187 (4.75) QC	With Indicator Light		PB465-ND◆	14.76	12.92	11.69	9.23	KUP-14D35-24
		120 VAC	—	10	.187 (4.75) QC	With Indicator Light	Potter & Brumfield	PB161-ND◆	14.76	12.92	11.69	9.23	KUP-14A35-120
		110 VDC	11	10	.187 (4.75) QC	With Indicator Light		PB856-ND◆	14.76	12.92	11.69	9.23	KUP-14D35-110
		120 VAC	—	10	.187 (4.75) QC	Side Flange		PB852-ND◆	14.26	12.48	11.29	8.91	KUP-14A35F-120
		120 VAC	—	10	.187 (4.75) QC	With Test Button		PB162-ND◆	15.74	13.78	12.47	9.84	KUP-14A45-120
		24 VAC	—	10	.187 (4.75) QC	Side Flange		PB163-ND◆	14.26	12.48	11.29	8.91	KUP-14A55-24
		120 VAC	—	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB164-ND◆	14.26	12.48	11.29	8.91	KUP-14A55-120
		12 VDC	100	10	.187 (4.75) QC	Side Flange		PB614-ND◆	13.30	11.64	10.53	8.31	KUP-14D55-12
		24 VDC	51	10	.187 (4.75) QC	Side Flange		PB672-ND◆	13.30	11.64	10.53	8.31	KUP-14D55-24
	SPST-NO	24 VDC	51	10	.187 (4.75) QC	HV DC Switching	Potter & Brumfield	PB466-ND	17.64	15.44	13.97	11.03	KUEP-3D15-24
		110 VDC	11	10	.187 (4.75) QC	HV DC Switching		PB616-ND◆	16.49	14.43	13.06	10.31	KUEP-3D15-110
		24 VDC	51	10	.187 (4.75) QC	HV DC Switching		PB843-ND◆	17.18	15.04	13.61	10.74	KUEP-3D35-24
	DPST-NO	24 VDC	51	10	.187 (4.75) QC	HV DC Switching	Potter & Brumfield	PB845-ND◆	16.63	14.56	13.17	10.40	KUEP-7D15-24
		110 VDC	11	10	.187 (4.75) QC	HV DC Switching		PB844-ND◆	23.54	20.61	18.64	14.72	KUEP-7D15-110
	DPDT	24 VDC	51	10	.187 (4.75) QC	HV DC Switching	Potter & Brumfield	PB467-ND◆	19.99	17.50	15.83	12.50	KUEP-11D15-24
		120 VAC	24	10	.187 (4.75) QC	HV DC Switching		PB615-ND◆	21.86	19.14	17.31	13.67	KUEP-11A15-120
		48 VDC	26.7	10	.187 (4.75) QC	—		PB841-ND◆	24.43	21.38	19.35	15.27	KUEP-11D15-48
		120 VAC	24	15	.187 (4.75) QC	—		PB617-ND	14.23	12.46	11.27	8.90	KUMP-11A18-120
		24 VDC	51	15	.187 (4.75) QC	—		PB618-ND◆	13.20	11.55	10.45	8.25	KUMP-11D18-24
	3PDT	120 VAC	24	15	.187 (4.75) QC	—	Potter & Brumfield	PB619-ND◆	16.27	14.24	12.89	10.17	KUMP-14A18-120
		24 VDC	51	15	.187 (4.75) QC	—		PB468-ND◆	15.24	13.34	12.07	9.53	KUMP-14D18-24
	DPDT	120 VAC	—	10	.187 (4.75) QC	Top Flange	Potter & Brumfield	PB469-ND	22.44	19.64	17.77	14.03	KUIP-11AT5-120
		24 VAC	—	20	.250 (6.35) QC	Side Flange		PB470-ND◆	14.81	12.96	11.73	9.26	KUHP-11A51-24
		120 VAC	—	20	.250 (6.35) QC	Side Flange		PB620-ND◆	14.81	12.96	11.73	9.26	KUHP-11A51-120
		120 VAC	—	20	.250 (6.35) QC	Top Flange		PB621-ND◆	15.31	13.40	12.13	9.57	KUHP-11AT1-120
		12 VDC	120	20	.250 (6.35) QC	Side Flange		PB622-ND◆	14.30	12.52	11.33	8.94	KUHP-11D51-12
		24 VDC	472	20	.250 (6.35) QC	Side Flange	Potter & Brumfield	PB623-ND	14.30	12.52	11.33	8.94	KUHP-11D51-24
		24 VDC	472	20	.250 (6.35) QC	Top Flange		PB624-ND◆	14.30	12.52	11.33	8.94	KUHP-11DT1-24
		240 VAC	—	20	.250 (6.35) QC	—		PB846-ND◆	15.91	13.93	12.60	9.95	KUHP-11A51-240
		12 VDC	120	10	.187 (4.75) QC	Latching Relay		PB625-ND◆	55.10	48.22	43.63	34.44	KUL-11D15D-12
		24 VDC	51	10	.187 (4.75) QC	Latching Relay		PB471-ND◆	55.10	48.22	43.63	34.44	KUL-11D15D-24
		120 VAC	—	10	.187 (4.75) QC	Latching Relay	Potter & Brumfield	PB472-ND◆	42.41	37.11	33.58	26.51	KUL-11A15S-120
		24 VAC	—	10	.187 (4.75) QC	Latching Relay		PB848-ND◆	42.41	37.11	33.58	26.51	KUL-11A15S-24
		48 VDC	26.7	10	.187 (4.75) QC	Latching Relay		PB849-ND◆	56.83	49.73	45.00	35.52	KUL-11D15D-48
PCLH Series Relay — RoHS Compliant													
5	DPDT	12 VAC	—	15	Plug-In	Class F Coil	OEG	PB896-ND	6.62	5.80	5.25	4.14	PCLH-202A1S,000
		12 VDC	75	15	PC Mount	Class F Coil		PB897-ND	4.44	3.89	3.52	2.78	PCLH-202D1SP,000
		12 VDC	75	15	Plug-In	Class F Coil		PB898-ND	6.29	5.51	4.98	3.93	PCLH-202D1S,000
		24 VAC	—	15	Plug-In	Class F Coil		PB899-ND	6.67	5.84	5.29	4.17	PCLH-203A1S,000
		24 VDC	36.9	15	PC Mount	Class F Coil		PB900-ND	6.29	5.51	4.98	3.93	PCLH-203D1SP,000
		48 VDC	18.5	15	Plug-In	Class F Coil	OEG	PB901-ND	6.38	5.59	5.06	3.99	PCLH-204D1S,000
		110 VDC	10	15	Plug-In	Class F Coil		PB902-ND	6.70	5.86	5.31	4.19	PCLH-205D1S,000
		110 VAC	—	15	PC Mount	Class F Coil		PB903-ND	6.74	5.91	5.34	4.22	PCLH-206A1SP,000
		110 VAC	—	15	Plug-In	Class F Coil		PB904-ND	6.74	5.91	5.34	4.22	PCLH-206A1S,000
		220 VAC	—	15	Plug-In	Class F Coil		PB905-ND	7.87	6.89	6.24	4.92	PCLH-208A1S,000

◆ ***RoHS Compliant*** **§** KHA Sockets will fit sockets designed for PT/PTH Series

(Continued)

PC Mount and General Purpose Relays *(Cont.)*

Dimensions in mm

Fig. 6 — XT Series ***NEW!***

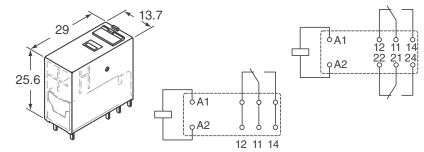

Fig. 7 — PT/PTH Series

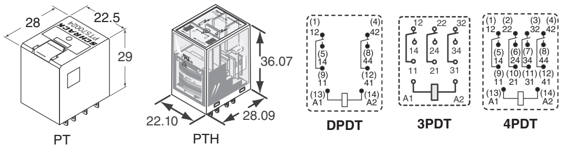

Fig. 8 — RM Series

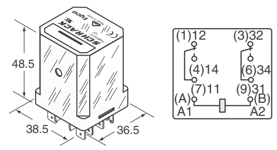

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each				Mfg. Part No.
									1	25	50	100	
NEW! XT Series Relay — RoHS Compliant NEW!													
6	SPDT	12 VDC	33.3	16	Plug-In	—	Schrack	PB1185-ND	4.22	3.70	3.35	2.64	XT314012
		24 VDC	16.7	16	Plug In	—		PB1186-ND	4.22	3.70	3.35	2.64	XT314024
		12 VDC	33.3	16	Plug-In	With LED & PD		PB1187-ND	6.50	5.70	5.15	4.07	XT374LB2
		24 VDC	16.7	16	Plug-In	With LED & PD		PB1188-ND	6.53	5.72	5.17	4.08	XT374LC4
		24 VAC	31.6	16	Plug-In	—		PB1189-ND	4.51	3.95	3.58	2.82	XT314524
		115 VAC	6.6	16	Plug-In	—	Schrack	PB1190-ND	5.16	4.52	4.09	3.23	XT314615
		24 VAC	31.6	16	Plug-In	With LED		PB1191-ND	6.70	5.86	5.31	4.19	XT374R24
		115 VAC	6.6	16	Plug-In	With LED		PB1192-ND	7.37	6.45	5.84	4.61	XT374S15
		230 VAC	3.2	16	Plug-In	With LED		PB1193-ND	9.00	7.88	7.13	5.63	XT374T30
	DPDT	12 VDC	33.3	8	Plug-In	—	Schrack	PB1194-ND	4.34	3.81	3.44	2.72	XT424012
		24 VDC	16.7	8	Plug-In	—		PB1195-ND	4.44	3.89	3.52	2.78	XT424024
		12 VDC	33.3	8	Plug-In	With LED & PD		PB1196-ND	6.67	5.84	5.29	4.17	XT484LB2
		24 VDC	16.7	8	Plug-In	With LED & PD		PB1197-ND	6.70	5.86	5.31	4.19	XT484LC4
		24 VAC	31.6	8	Plug-In	—		PB1198-ND	4.30	3.76	3.41	2.69	XT424524
		115 VAC	6.6	8	Plug-In	—	Schrack	PB1199-ND	5.30	4.65	4.20	3.32	XT424615
		24 VAC	31.6	8	Plug-In	With LED		PB1200-ND	6.74	5.91	5.34	4.22	XT424R24
		115 VAC	6.6	8	Plug-In	With LED		PB1201-ND	7.37	6.45	5.84	4.61	XT424S15
		230 VAC	3.2	8	Plug-In	With LED		PB1202-ND	9.00	7.88	7.13	5.63	XT424T30
—	Plastic Retaining Clip, XT Series							PB1203-ND	.48	.42	.38	.30	XT17017
PT Series Relay — RoHS Compliant													
7	DPDT	12 VDC	62.5	12	Plug-In	With Indicator and Test	Schrack	PB908-ND	5.64	4.94	4.47	3.53	PT270012
		24 VDC	30.8	12	Plug-In	With Indicator and Test		PB717-ND	5.64	4.94	4.47	3.53	PT270024
		24 VAC	—	12	Plug-In	With Indicator and Test		PB909-ND	5.76	5.04	4.56	3.60	PT270524
		115 VAC	—	12	Plug-In	With Indicator and Test		PB718-ND	6.07	5.32	4.81	3.80	PT270615
		230 VAC	—	12	Plug-In	With Indicator and Test		PB719-ND	6.77	5.93	5.36	4.23	PT270730
	3PDT	24 VDC	30.8	10	Plug-In	With Indicator and Test	Schrack	PB910-ND	6.43	5.63	5.10	4.02	PT370024
		115 VAC	—	10	Plug-In	With Indicator and Test		PB911-ND	6.86	6.01	5.44	4.29	PT370615
	4PDT	12 VDC	62.5	6	Plug-In	With Indicator and Test	Schrack	PB912-ND	6.10	5.34	4.83	3.81	PT570012
		24 VDC	30.8	6	Plug-In	With Indicator and Test		PB720-ND	6.10	5.34	4.83	3.81	PT570024
		48 VDC	15.6	6	Plug-In	With Indicator and Test		PB913-ND	7.08	6.20	5.61	4.43	PT570048
		24 VAC	—	6	Plug-In	With Indicator and Test		PB914-ND	6.22	5.44	4.93	3.89	PT570524
		115 VAC	—	6	Plug-In	With Indicator and Test		PB721-ND	6.53	5.72	5.17	4.08	PT570615
		230 VAC	—	6	Plug-In	With Indicator and Test		PB722-ND	7.63	6.68	6.05	4.77	PT570730
PTH Series — Miniature Relay — RoHS Compliant													
7	DPDT	12 VAC	83.3	12	Plug-In	—	Schrack	PB1142-ND ***NEW!***	4.70	4.12	3.73	2.94	PT22A512B
		24 VAC	41.6	12	Plug-In	—		PB1145-ND ***NEW!***	4.68	4.10	3.71	2.93	PT22A524B
		115 VAC	8.8	12	Plug-In	—		PB1146-ND ***NEW!***	4.82	4.23	3.82	3.02	PT22A615B
		12 VAC	83.3	12	Plug-In	With LED		PB1147-ND ***NEW!***	5.71	5.00	4.53	3.57	PT22AR12B
		24 VAC	41.6	12	Plug-In	With LED		PB1148-ND ***NEW!***	5.69	4.98	4.51	3.56	PT22AR24B
		115 VAC	8.8	12	Plug-In	With LED	Schrack	PB1149-ND ***NEW!***	5.86	5.13	4.64	3.66	PT22AS15B
		12 VDC	62.5	12	Plug-In	—		PB1155-ND ***NEW!***	4.56	3.99	3.61	2.85	PT22A012B
		24 VDC	30.8	12	Plug-In	—		PB1156-ND ***NEW!***	4.61	4.04	3.65	2.88	PT22A024B
		12 VDC	62.5	12	PCB/Solder	—		PB1159-ND ***NEW!***	4.56	3.99	3.61	2.85	PT22B012B
		24 VDC	30.8	12	PCB/Solder	—		PB1160-ND ***NEW!***	5.30	4.65	4.20	3.32	PT22B024B
	4PDT	12 VAC	83.3	6	Plug-In	—	Schrack	PB1150-ND ***NEW!***	5.69	4.98	4.51	3.56	PT52A512B
		24 VAC	41.6	6	Plug-In	—		PB1151-ND ***NEW!***	5.69	4.98	4.51	3.56	PT52A524B
		12 VAC	83.3	6	Plug-In	With LED		PB1152-ND ***NEW!***	6.79	5.95	5.38	4.25	PT52AR12B
		24 VAC	41.6	6	Plug-In	With LED		PB1153-ND ***NEW!***	6.77	5.93	5.36	4.23	PT52AR24B
		115 VAC	8.8	6	Plug-In	With LED		PB1154-ND ***NEW!***	7.63	6.68	6.05	4.77	PT52AS15B
		12 VDC	62.5	6	Plug-In	—	Schrack	PB1157-ND ***NEW!***	6.22	5.44	4.93	3.89	PT52A012B
		24 VDC	30.8	6	Plug-In	—		PB1158-ND ***NEW!***	5.59	4.90	4.43	3.50	PT52A024B
		12 VDC	62.5	6	PCB/Solder	—		PB1161-ND ***NEW!***	5.69	4.98	4.51	3.56	PT52B012B
		24 VDC	30.8	6	PCB/Solder	—		PB1162-ND ***NEW!***	5.69	4.98	4.51	3.56	PT52B024B
—	DIN Rail Socket with Screw Terminal, DP					PT/PTH/KHA	—	PB723-ND	2.71	2.38	2.15	1.70	PT78720
	DIN Rail Socket with Screw Terminal, 3P					PT/PTH/KHA	—	PB1144-ND ***NEW!***	10.06	8.80	7.97	6.29	PT78730
	DIN Rail Socket with Screw Terminal, 4P					PT/PTH/KHA	—	PB724-ND	3.43	3.01	2.72	2.15	PT78740
	Plastic Retainer Clip for 29mm Relays for use with Din Rail Sockets					PT/PTH/KHA	—	PB725-ND	.48	.42	.38	.30	PT17016
	Solder Terminal Socket with Mounting Ears for DP, 3P and 4P					PT/PTH/KHA	—	PB726-ND	2.02	1.77	1.60	1.26	PT78600
	PCB Mount Socket without Mounting Ears for DP, 3P and 4P					PT/PTH/KHA	—	PB727-ND	1.90	1.66	1.51	1.19	PT78604
	Metal Retaining Clip for PCB Mount Sockets					PT/PTH/KHA	—	PB728-ND	.58	.51	.46	.36	PT28802
RM Series Relay — RoHS Compliant													
8	DPDT	12 VDC	109	16	.187 (4.75) QC	—	Schrack	PB918-ND	12.86	11.26	10.19	8.04	RM202012
		24 VDC	50.5	16	.187 (4.75) QC	—		PB919-ND	12.86	11.26	10.19	8.04	RM202024
		115 VAC	—	16	.187 (4.75) QC	—		PB920-ND	13.94	12.21	11.04	8.72	RM202615
		115 VAC	—	16	.250 (6.35) QC	—		PB921-ND	13.94	12.21	11.04	8.72	RM205615
	3PDT	24 VDC	50.5	10	.187 (4.75) QC	—	Schrack	PB923-ND	14.33	12.54	11.35	8.96	RM302024
		24 VDC	50.5	16	.187 (4.75) QC	—		PB924-ND	14.33	12.54	11.35	8.96	RM702024
		24 VAC	—	16	.187 (4.75) QC	—		PB925-ND	14.33	12.54	11.35	8.96	RM702524
		115 VAC	—	16	.187 (4.75) QC	—		PB926-ND	13.25	11.60	10.49	8.28	RM702615
		115 VAC	—	16	.250 (6.35) QC	—		PB927-ND	13.25	11.60	10.49	8.28	RM705615
	DPDT	12 VDC	109	25	.250 (6.35) QC	With Mounting Bracket	Schrack	PB931-ND	16.63	14.56	13.17	10.40	RM805012
		24 VAC	—	25	.250 (6.35) QC	With Mounting Bracket		PB932-ND	16.63	14.56	13.17	10.40	RM805524
		115 VAC	—	25	.250 (6.35) QC	With Mounting Bracket		PB933-ND	16.63	14.56	13.17	10.40	RM805615

◆ ***RoHS Compliant*** § KHA Sockets will fit sockets designed for PT/PTH Series

(Continued)

PC Mount and General Purpose Relays *(Cont.)*

Dimensions in mm

Fig. 9 — RMD Series

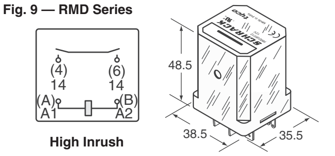

High Inrush

Fig. 10 — RP Series

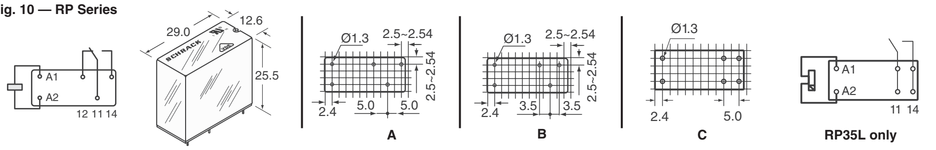

A **B** **C** **RP35L only**

Fig. 11 — MT Series

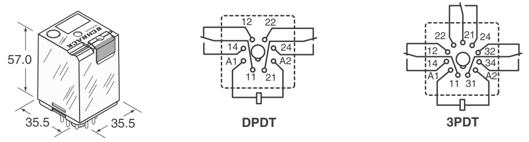

DPDT **3PDT**

Fig. 12 — KRP/KRPA/KBP Series

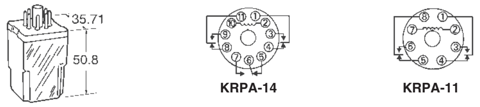

KRPA-14 **KRPA-11**

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Mfg. Part No.
9	SPDT	12 VDC	109	30	.250 (6.35) QC	With Top Bracket	Schrack	PB934-ND	13.80	12.08	10.93	8.63	RMD05012
—	Relay Socket QC Terminal Type for RM Relays							PB928-ND	2.62	2.29	2.08	1.64	RM78700
	Relay Socket Solder Terminal Type for RM Relays							PB929-ND	4.61	4.04	3.65	2.88	RM78701
	Relay Socket Screw Terminal Type for RM Relays							PB930-ND	18.02	15.78	14.27	11.27	RM78705
	Metal Retaining Clip for RM Sockets							PB922-ND	.50	.45	.40	.32	RM28802
RP Series Relay — RoHS Compliant													
10A	SPDT	12 VDC	44.4	16	PC Mount	AgCdO	Schrack	PB935-ND	4.27	3.74	3.39	2.67	RP310012
		24 VDC	21.8	16	PC Mount	AgCdO		PB936-ND	4.27	3.74	3.39	2.67	RP310024
	SPST-NO	24 VDC	21.8	16	PC Mount	AgCdO	Schrack	PB937-ND	4.13	3.62	3.27	2.58	RP330024
10B	SPDT	12 VDC	44.4	12	PC Mount	AgCdO	Schrack	PB940-ND	4.22	3.70	3.35	2.64	RP418012
		24 VDC	21.8	12	PC Mount	AgCdO		PB941-ND	4.22	3.70	3.35	2.64	RP418024
10C	SPST-NO	5 VDC	92.5	16	PC Mount	High Inrush	Schrack	PB938-ND	6.17	5.40	4.89	3.86	RP3SL005
		24 VDC	21.8	16	PC Mount	High Inrush		PB939-ND	6.17	5.40	4.89	3.86	RP3SL024
—	DPDT	12 VDC	44.4	8	PC Mount	Flux Sealed	Schrack	PB942-ND	4.27	3.74	3.39	2.67	RP420012
		24 VDC	21.8	8	PC Mount	Flux Sealed		PB943-ND	4.27	3.74	3.39	2.67	RP420024
		24 VDC	21.8	8	PC Mount	Flux Sealed		PB944-ND	4.27	3.74	3.39	2.67	RP421024
—	SPDT	12 VDC	44.4	16	PC Mount	Flux Sealed	Schrack	PB945-ND	4.27	3.74	3.39	2.67	RP710012
		24 VDC	21.8	16	PC Mount	Flux Sealed		PB946-ND	4.27	3.74	3.39	2.67	RP710024
		12 VDC	44.4	12	PC Mount	Sealed Case		PB947-ND	3.82	3.34	3.03	2.39	RP818012
		24 VDC	21.8	12	PC Mount	Sealed Case		PB948-ND	3.82	3.34	3.03	2.39	RP818024
—	DPDT	12 VDC	44.4	8	PC Mount	Sealed Case	Schrack	PB949-ND	4.27	3.74	3.39	2.67	RP820012
		24 VDC	21.8	8	PC Mount	Sealed Case		PB950-ND	4.27	3.74	3.39	2.67	RP820024
		12 VDC	44.4	8	PC Mount	Sealed Case		PB951-ND	4.27	3.74	3.39	2.67	RP821012
		24 VDC	21.8	8	PC Mount	Sealed Case		PB952-ND	4.27	3.74	3.39	2.67	RP821024
MT Series Relay — RoHS Compliant													
11	DPDT	12 VDC	50	10	8 Octal	With Locking Tab	Schrack	PB860-ND	12.98	11.37	10.28	8.12	MT221012
		24 VDC	50	10	8 Octal	With Locking Tab		PB861-ND	12.98	11.37	10.28	8.12	MT221024
		24 VAC	—	10	8 Octal	With Locking Tab		PB862-ND	11.71	10.25	9.28	7.32	MT226024
		115 VAC	—	10	8 Octal	With Locking Tab		PB863-ND	13.68	11.97	10.83	8.55	MT226115
		230 VAC	—	10	8 Octal	With Locking Tab		PB864-ND	15.05	13.17	11.92	9.41	MT226230
	3PDT	12 VDC	50	10	11 Octal	With Locking Tab	Schrack	PB865-ND	13.68	11.97	10.83	8.55	MT321012
		24 VDC	50	10	11 Octal	With Locking Tab		PB866-ND	13.68	11.97	10.83	8.55	MT321024
		24 VAC	—	10	11 Octal	With Locking Tab		PB867-ND	13.68	11.97	10.83	8.55	MT326024
		115 VAC	—	10	11 Octal	With Locking Tab		PB868-ND	13.68	11.97	10.83	8.55	MT326115
		230 VAC	—	10	11 Octal	With Locking Tab		PB869-ND	13.34	11.68	10.57	8.34	MT326230
—	Din Rail Mount, 11 Pin Octal Socket; Long Body Style							PB870-ND	7.61	6.66	6.03	4.76	MT78740
	Din Rail Mount, 8 Pin Octal Socket; Long Body Style							PB871-ND	7.34	6.43	5.82	4.59	MT78745
	Din Rail Mount, 11 Pin Octal Socket; Short Body Style							PB872-ND	5.28	4.62	4.18	3.30	MT78750
	Din Rail Mount, 8 Pin Octal Socket; Short Body Style							PB873-ND	5.23	4.58	4.15	3.27	MT7875
KRP/KRPA/KBP Series — Octal Plug Termination General Purpose Relay													
12	SPST-NO	120 VAC	17.5	20	8 Pin Octal	—	Potter & Brumfield	PB626-ND	55.90	48.91	44.26	34.94	KRP-3AH-120
	DPDT	110 VDC	11.5	10	8 Pin Octal	—	Potter & Brumfield	PB473-ND	59.11	51.73	46.80	36.95	KRP-11DG-110
		120 VAC	—	10	8 Pin Octal	—		PB474-ND	57.24	50.09	45.32	35.78	KRP-11AG-120
	SPDT	120 VAC	17.5	10	8 Pin Octal	—	Potter & Brumfield	PB637-ND	21.65	18.95	17.14	13.53	KRPA-5AG-120
		120 VAC	17.5	5	8 Pin Octal	Silver Contacts		PB837-ND◆	21.65	18.95	17.14	13.53	KRPA-5AY-120
		24 VDC	51	10	8 Pin Octal	—		PB638-ND◆	19.68	17.22	15.58	12.30	KRPA-5DG-24
		12 VDC	100	5	8 Pin Octal	Silver Contacts		PB838-ND◆	19.68	17.22	15.58	12.30	KRPA-5DY-12
	DPDT	12 VAC	168	10	8 Pin Octal	—	Potter & Brumfield	PB628-ND	14.04	12.29	11.12	8.78	KRPA-11AG-12
		24 VAC	—	10	8 Pin Octal	—		PB167-ND◆	14.04	12.29	11.12	8.78	KRPA-11AG-24
		120 VAC	—	10	8 Pin Octal	—		PB168-ND◆	15.00	13.13	11.88	9.38	KRPA-11AG-120
		240 VAC	8.75	10	8 Pin Octal	—		PB629-ND◆	15.98	13.99	12.66	9.99	KRPA-11AG-240
		12 VDC	100	10	8 Pin Octal	—		PB169-ND◆	14.04	12.29	11.12	8.78	KRPA-11DG-12
		24 VDC	51	10	8 Pin Octal	—	Potter & Brumfield	PB170-ND◆	14.04	12.29	11.12	8.78	KRPA-11DG-24
		48 VDC	26.6	10	8 Pin Octal	—		PB633-ND◆	15.00	13.13	11.88	9.38	KRPA-11DG-48
		110 VDC	11.5	10	8 Pin Octal	—		PB476-ND◆	15.00	13.13	11.88	9.38	KRPA-11DG-110
		24 VAC	84	10	8 Pin Octal	With Indicator Light		PB630-ND	14.50	12.69	11.48	9.06	KRPA-11AN-24
		120 VAC	—	10	8 Pin Octal	With Indicator Light		PB175-ND◆	15.48	13.55	12.26	9.68	KRPA-11AN-120
		240 VAC	8.75	10	8 Pin Octal	With Indicator Light	Potter & Brumfield	PB631-ND◆	16.46	14.41	13.04	10.29	KRPA-11AN-240
		12 VDC	100	10	8 Pin Octal	With Indicator Light		PB634-ND◆	14.50	12.69	11.48	9.06	KRPA-11DN-12
		24 VDC	51	10	8 Pin Octal	With Indicator Light		PB475-ND◆	14.50	12.69	11.48	9.06	KRPA-11DN-24
		120 VAC	17.5	5	8 Pin Octal	Silver Contacts		PB632-ND◆	15.00	13.13	11.88	9.38	KRPA-11AY-120
		24 VDC	51	5	8 Pin Octal	—		PB635-ND◆	14.04	12.29	11.12	8.78	KRPA-11DY-24
	3PDT	24 VAC	—	10	11 Pin Octal	—	Potter & Brumfield	PB171-ND◆	15.48	13.55	12.26	9.68	KRPA-14AG-24
		120 VAC	—	10	11 Pin Octal	—		PB172-ND◆	16.46	14.41	13.04	10.29	KRPA-14AG-120
		12 VDC	100	10	11 Pin Octal	—		PB173-ND◆	15.74	13.78	12.47	9.84	KRPA-14DG-12
		24 VDC	51	10	11 Pin Octal	—		PB174-ND	15.74	13.78	12.47	9.84	KRPA-14DG-24
		110 VDC	11.5	10	11 Pin Octal	—		PB673-ND◆	17.71	15.50	14.03	11.07	KRPA-14DG-110
		120 VAC	—	10	11 Pin Octal	With Indicator Light	Potter & Brumfield	PB176-ND◆	16.97	14.85	13.44	10.61	KRPA-14AN-120
		24 VDC	51	10	11 Pin Octal	With Indicator Light		PB636-ND	16.25	14.22	12.87	10.16	KRPA-14DN-24
	DPDT	120 VAC	—	10	11 Pin Octal	Latching Relay	Potter & Brumfield	PB627-ND	185.83	162.61	147.12	116.15	KBP-11AG-120

◆ ***RoHS Compliant*** § KHA Sockets will fit sockets designed for PT/PTH Series

(Continued)

PC Mount and General Purpose Relays *(Cont.)*

Dimensions in mm

Fig. 13 — T90 Series

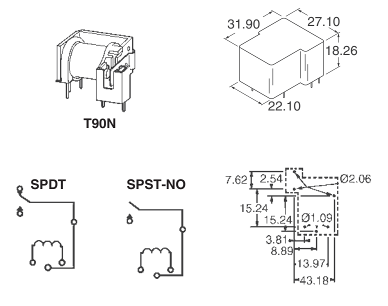

Fig. 14 — T9A Series

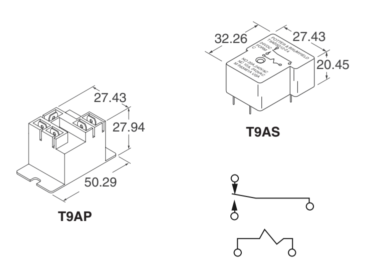

Fig. 15 — T92 Series

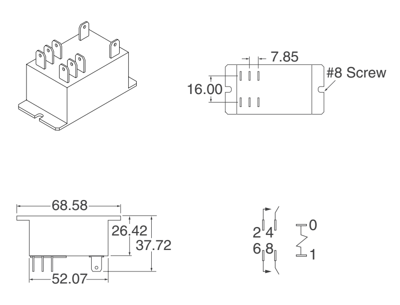

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Mfg. Part No.
T90 Series — Low Cost PC Mount Power Relay													
13	SPST-NO	12 VDC	77	30	PC Mount	—	Potter & Brumfield	PB104-ND◆	2.45	2.15	1.94	1.53	T90N1D12-12
		24 VDC	36	30	PC Mount	—		PB105-ND◆	2.47	2.17	1.96	1.55	T90N1D12-24
		5 VDC	185	30	PC Mount	—		PB106-ND◆	2.47	2.17	1.96	1.55	T90N5D12-5
	SPDT	12 VDC	77	20	PC Mount	—	Potter & Brumfield	PB107-ND◆	2.52	2.21	2.00	1.58	T90N5D12-12
		24 VDC	36	20	PC Mount	—		PB108-ND◆	2.57	2.25	2.04	1.61	T90N5D12-24
	SPST-NO	5 VDC	185	30	PC Mount	—	Potter & Brumfield	PB109-ND◆	2.81	2.46	2.23	1.76	T90S1D12-5
		12 VDC	77	30	PC Mount	—		PB110-ND◆	2.86	2.50	2.27	1.79	T90S1D12-12
		24 VDC	36	30	PC Mount	—		PB111-ND◆	2.86	2.50	2.27	1.79	T90S1D12-24
	SPDT	5 VDC	185	20	PC Mount	—	Potter & Brumfield	PB113-ND◆	2.81	2.46	2.23	1.76	T90S5D12-5
		12 VDC	77	20	PC Mount	—		PB114-ND	2.86	2.50	2.27	1.79	T90S5D12-12
		24 VDC	36	20	PC Mount	—		PB115-ND◆	2.88	2.52	2.28	1.80	T90S5D12-24
—	Dust Cover for Open-Style T90 Series (Snaps onto Relay)							PB216-ND◆	.77	.68	.61	.48	35C620A
T9A Series — Low Cost Industrial Relay													
14	SPDT	5 VDC	185	30	PC Mount	With .250" QC Term.	Potter & Brumfield	PB1015-ND◆	3.00	2.63	2.38	1.88	T9AS5D22-5
	SPST-NO	12 VDC	83	30	PC Mount	—	Potter & Brumfield	PB302-ND◆	2.78	2.44	2.21	1.74	T9AS1D12-12
		24 VDC	42	30	PC Mount	—		PB303-ND◆	2.78	2.44	2.21	1.74	T9AS1D12-24
		48 VDC	20.8	30	PC Mount	—		PB1013-ND◆	3.14	2.76	2.49	1.97	T9AS1D12-48
		5 VDC	185	30	PC Mount	—	Potter & Brumfield	PB1014-ND◆	2.74	2.40	2.17	1.71	T9AS1D12-5
		12 VDC	83	30	PC Mount	With .250" QC Term.		PB304-ND◆	3.00	2.63	2.38	1.88	T9AS1D22-12
		24 VDC	42	30	PC Mount	With .250" QC Term.		PB305-ND◆	3.00	2.63	2.38	1.88	T9AS1D22-24
		24 VDC	42	30	.250 (6.35) QC	Chassis Mount		PB1012-ND◆	3.41	2.99	2.70	2.13	T9AP1D52-24
	SPDT	12 VDC	83	20	PC Mount	—	Potter & Brumfield	PB306-ND◆	2.16	1.89	1.71	1.35	T9AS5D12-12
		24 VDC	42	20	PC Mount	—		PB307-ND◆	2.83	2.48	2.25	1.77	T9AS5D12-24
		12 VDC	83	20	PC Mount	With .250" QC Term.		PB308-ND	3.00	2.63	2.38	1.88	T9AS5D22-12
		24 VDC	42	20	PC Mount	With .250" QC Term.		PB309-ND◆	3.00	2.63	2.38	1.88	T9AS5D22-24
		12 VDC	83	20	.250 (6.35) QC	Chassis Mount		PB310-ND◆	3.41	2.99	2.70	2.13	T9AP5D52-12
		24 VDC	42	20	.250 (6.35) QC	Chassis Mount		PB311-ND◆	3.41	2.99	2.70	2.13	T9AP5D52-24
T92 Series — Power Relay with Quick Connect Terminals, Sealed and Unsealed													
15	DPST-NO	12 VDC	139	30	PC Mount	Sealed Case	Potter & Brumfield	PB481-ND◆	12.12	10.61	9.60	7.58	T92S7D12-12
		24 VDC	68	30	PC Mount	Sealed Case		PB482-ND◆	12.12	10.61	9.60	7.58	T92S7D12-24
		240 VAC	—	30	PC Mount	Sealed Case		PB483-ND◆	15.07	13.19	11.94	9.42	T92S7A12-240
		12 VDC	139	30	PC Mount	Unsealed Case		PB484-ND◆	11.38	9.96	9.01	7.11	T92P7D12-12
		24 VDC	68	30	PC Mount	Unsealed Case		PB485-ND◆	11.38	9.96	9.01	7.11	T92P7D12-24
	DPST-NO	12 VDC	139	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB298-ND◆	12.12	10.61	9.60	7.58	T92S7D22-12
		12 VDC	139	30	.250 (6.35) QC	Unsealed Case		PB486-ND◆	11.38	9.96	9.01	7.11	T92P7D22-12
		24 VDC	68	30	.250 (6.35) QC	Sealed Case		PB299-ND◆	12.12	10.61	9.60	7.58	T92S7D22-24
		24 VDC	68	30	.250 (6.35) QC	Unsealed Case		PB1008-ND◆	11.38	9.96	9.01	7.11	T92P7D22-24
		110 VDC	115	30	.250 (6.35) QC	Sealed Case		PB1011-ND◆	13.70	12.00	10.85	8.57	T92S7D22-110
		24 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB487-ND◆	11.93	10.44	9.45	7.46	T92P7A22-24
		24 VAC	—	30	.250 (6.35) QC	Sealed Case		PB488-ND◆	12.94	11.32	10.25	8.09	T92S7A22-24
		120 VAC	—	30	.250 (6.35) QC	Sealed Case		PB301-ND◆	12.94	11.32	10.25	8.09	T92S7A22-120
		120 VAC	—	30	.250 (6.35) QC	Unsealed Case		PB489-ND◆	11.93	10.44	9.45	7.46	T92P7A22-120
		240 VAC	—	30	.250 (6.35) QC	Sealed Case		PB736-ND◆	14.57	12.75	11.54	9.11	T92S7A22-240
		240 VAC	—	30	.250 (6.35) QC	Unsealed Case		PB738-ND◆	13.61	11.91	10.78	8.51	T92P7A22-240
	DPST-NO	12 VDC	139	30	Screw Terminal	Unsealed Case	Potter & Brumfield	PB1009-ND◆	11.76	10.29	9.31	7.35	T92P7D52-12
		120 VAC	68	30	Screw Terminal	Unsealed Case		PB1007-ND◆	12.58	11.01	9.96	7.86	T92P7A52-120
	DPDT	12 VDC	139	30	PC Mount	Sealed Case	Potter & Brumfield	PB351-ND◆	13.01	11.39	10.30	8.13	T92S11D12-12
		24 VDC	68	30	PC Mount	Sealed Case		PB352-ND	13.01	11.39	10.30	8.13	T92S11D12-24
		110 VDC	139	30	PC Mount	Sealed Case		PB1010-ND◆	14.81	12.96	11.73	9.26	T92S11D12-110
	DPDT	12 VDC	139	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB349-ND◆	12.07	10.57	9.56	7.55	T92P11D22-12
		12 VDC	139	30	.250 (6.35) QC	Sealed Case		PB490-ND◆	13.01	11.39	10.30	8.13	T92S11D22-12
		24 VDC	68	30	.250 (6.35) QC	Unsealed Case		PB350-ND◆	12.07	10.57	9.56	7.55	T92P11D22-24
		24 VAC	—	30	.250 (6.35) QC	Sealed Case		PB300-ND	14.66	12.84	11.61	9.17	T92S11A22-24
		24 VAC	—	30	.250 (6.35) QC	Unsealed Case		PB739-ND◆	13.37	11.70	10.59	8.36	T92P11A22-24
		24 VDC	68	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB491-ND◆	13.01	11.39	10.30	8.13	T92S11D22-24
		120 VAC	—	30	.250 (6.35) QC	Sealed Case		PB597-ND◆	14.66	12.84	11.61	9.17	T92S11A22-120
		120 VAC	—	30	.250 (6.35) QC	Unsealed Case		PB492-ND◆	13.37	11.70	10.59	8.36	T92P11A22-120
		240 VAC	—	30	.250 (6.35) QC	Sealed Case		PB737-ND◆	16.13	14.12	12.77	10.08	T92S11A22-240
		240 VAC	—	30	.250 (6.35) QC	Unsealed Case		PB348-ND◆	15.07	13.19	11.94	9.42	T92P11A22-240
PRD Series — Heavy Duty Power Relay													
16	SPST-NO	120 VAC	—	25	Screw	Double Make Contact	Potter & Brumfield	PB590-ND◆	22.03	19.28	17.45	13.77	PRD-3AY0-120
	SPDT	12 VAC	—	25	Screw	—	Potter & Brumfield	PB493-ND	24.48	21.42	19.38	15.30	PRD-5DY0-12
		24 VAC	—	25	Screw	—		PB494-ND	26.02	22.77	20.60	16.26	PRD-5AY0-24
		120 VAC	—	25	Screw	—		PB495-ND	25.27	22.12	20.01	15.80	PRD-5AY0-120

◆ ***RoHS Compliant*** § KHA Sockets will fit sockets designed for PT/PTH Series

(Continued)

Dimensions in mm

Fig. 16 — PRD Series

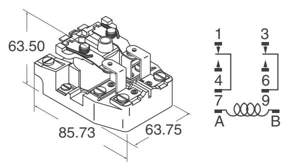

Fig. 17 — S86R, S87R Series

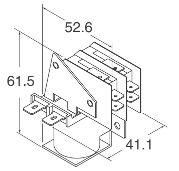

Fig. 18 — S89R Series

Potter & Brumfield S89 Series relay features a simple pulse latch/unlatch function (impulse) without the need to reverse polarity or continuously energize the coil.

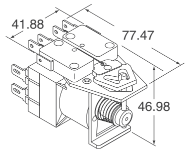

Fig. 19 — P25, P30, P40 Series

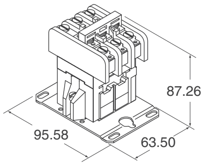

Fig. 20 — VKP Automotive Series

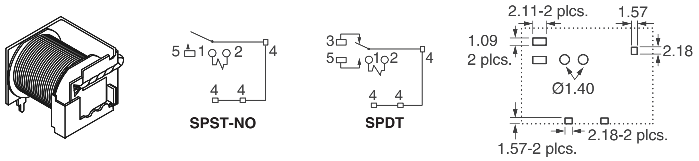

Fig. 21 — VF4 Style Automotive

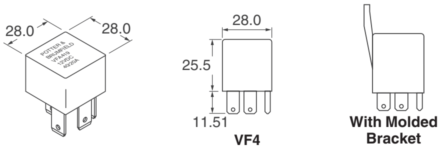

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each				Mfg. Part No.
									1	25	50	100	
16	DPST-NO	120 VAC	—	25	Screw	Silver Contact	Potter & Brumfield	PB496-ND◆	27.34	23.92	21.65	17.09	PRD-7AY0-120
		120 VAC	—	25	Screw	Silver Cadmium Contact		PB591-ND◆	27.19	23.80	21.53	17.00	PRD-7AG0-120
		24 VDC	84	25	Screw	Silver Contact		PB497-ND	26.47	23.17	20.96	16.55	PRD-7DY0-24
	DPDT	12 VDC	169	25	Screw	—	Potter & Brumfield	PB498-ND◆	33.17	29.03	26.26	20.73	PRD-11DY0-12
		24 VDC	84	25	Screw	—		PB499-ND◆	33.17	29.03	26.26	20.73	PRD-11DY0-24
		24 VDC	84	20	Screw	With Magnetic Blow Out		PB500-ND◆	36.91	32.30	29.23	23.07	PRD-11DH0-24
		24 VDC	84	30	Screw	—		PB501-ND◆	33.10	28.96	26.21	20.69	PRD-11DG0-24
		110 VDC	18.2	20	Screw	With Magnetic Blow Out		PB502-ND◆	40.27	35.24	31.89	25.17	PRD-11DH0-110
		24 VAC	—	25	Screw	Silver Contact	Potter & Brumfield	PB588-ND◆	33.94	29.70	26.87	21.21	PRD-11AY0-24
		120 VAC	—	30	Screw	Silver Cadmium Contact		PB503-ND◆	33.79	29.57	26.76	21.12	PRD-11AG0-120
		120 VAC	—	20	Screw	With Magnetic Blow Out		PB504-ND◆	37.82	33.10	29.95	23.64	PRD-11AH0-120
		120 VAC	—	25	Screw	—		PB505-ND	33.94	29.70	26.87	21.21	PRD-11AY0-120
		240 VAC	—	25	Screw	—		PB506-ND	34.51	30.20	27.33	21.57	PRD-11AY0-240
—	Metal Dust Cover for all PRD Relays, Gray Finish							PB646-ND◆	23.78	20.82	18.83	14.87	35D013
S86R, S87R Series — Industrial and S89R Series — Impulse Latching Relay													
17	DPDT	120 VAC	—	20	.250 (6.35) QC	—	Potter & Brumfield	PB510-ND	37.49	32.81	29.68	23.43	S86R11A1B1D1120
		120 VAC	—	20	.250 (6.35) QC	—		PB511-ND	35.59	31.15	28.18	22.25	S87R11A2B1D1120
18	DPDT	12 VDC	533	15	.187 (4.75) QC	Impulse	Potter & Brumfield	PB513-ND◆	45.38	39.72	35.93	28.37	S89R11DAC1-12
		120 VAC	—	15	.187 (4.75) QC	Impulse		PB585-ND	47.64	41.69	37.72	29.78	S89R11AAC1-120
		120 VAC	—	15	8 Pin Octal	Impulse		PB515-ND◆	54.58	47.76	43.21	34.11	S89R11APP1-120
P25, P30, P40 Series — Heavy Duty Contactor Relay — RoHS Compliant													
19	3PST-NO	24 VDC	180	25	.250 (6.35) QC	—	Potter & Brumfield	PB516-ND	82.10	71.85	65.00	51.32	P25P42D22P1-24
		24 VDC	286	30	.250 (6.35) QC	—		PB517-ND	105.62	92.43	83.62	66.02	P30P42D12P1-24
		24 VDC	286	40	.250 (6.35) QC	—		PB518-ND	111.10	97.21	87.96	69.44	P40P42D12P1-24
VKP Series — Open Frame Automotive Relay — RoHS Compliant													
20	SPST-NO	12 VDC	133	40	PC Mount	—	Potter & Brumfield	PB312-ND	2.52	2.21	2.00	1.58	VKP-11F42
	SPDT	12 VDC	133	40	PC Mount	—	Potter & Brumfield	PB313-ND	3.05	2.67	2.42	1.91	VKP-15F42
ISO Automotive Relay (VF4 Style) — RoHS Compliant													
21	SPST-NO	12 VDC	133.3	30	.250 (6.35) QC	Standard Plug-In	Tyco Electronics	PB679-ND	2.30	2.02	1.83	1.44	1432782-1
		12 VDC	133.3	30	.250 (6.35) QC	With Metal Bracket		PB685-ND	2.54	2.23	2.02	1.59	1432772-1
		12 VDC	133.3	40	PC Mount	Unsealed Case		PB1039-ND	2.50	2.19	1.98	1.56	1432866-1
	SPDT	12 VDC	133.3	30	.250 (6.35) QC	Standard Plug-In	Tyco Electronics	PB680-ND	2.40	2.10	1.90	1.50	1432785-1
		12 VDC	133.3	30	.250 (6.35) QC	With Internal Diode		PB682-ND	2.59	2.27	2.06	1.62	1432790-1
		12 VDC	133.3	30	.250 (6.35) QC	With Metal Bracket		PB686-ND	2.66	2.34	2.11	1.67	1432791-1
		12 VDC	133.3	30	.250 (6.35) QC	With Built-In Resistor		PB681-ND	2.50	2.19	1.98	1.56	1432786-1
		12 VDC	133.3	40	PC Mount	Unsealed Case		PB1040-ND	2.59	2.27	2.06	1.62	1432868-1
		24 VDC	66	30	.250 (6.35) QC	—	Tyco Electronics	PB683-ND	2.50	2.19	1.98	1.56	1432826-1
		24 VDC	66	30	.250 (6.35) QC	With Internal Diode		PB684-ND	2.69	2.36	2.13	1.68	1432795-1
		24 VDC	66	30	.250 (6.35) QC	With Metal Bracket		PB687-ND	2.74	2.40	2.17	1.71	1432797-1
		24 VDC	66	40	PC Mount	Plated Brass Terminals		PB1041-ND	2.66	2.34	2.11	1.67	1432870-1
		24 VDC	66	40	PC Mount	Sealed Case		PB1042-ND	3.12	2.73	2.47	1.95	1432871-1
—	VF4 Auto Relay Socket, PCB Mount							PB232-ND	1.68	1.47	1.33	1.05	VCF4-1000
	VF4 Auto Relay Socket (Wire Harness Style)							PB316-ND	.65	.57	.52	.41	VCF4-1001
	VF4 Auto Relay Socket (Wire Harness Style with Molded Bracket)							PB714-ND	1.73	1.52	1.37	1.08	VCF4-1002
	VF4 Auto Relay Socket (Shrouded Dust Cover Type)							PB715-ND	1.78	1.56	1.41	1.11	VCF4-1003
	VF4 Auto Crimp Terminal 12-16AWG for PB316-ND (Wire Harness Connector)							A27929CT-ND	12.31/100				60249-1
	VF4 Auto Crimp Terminal 12-16AWG for PB316-ND (Wire Harness Connector)							A27929TR-ND	553.91/9,000				60249-1
	VF4 Auto Crimp Terminal 14-18AWG for PB316-ND (Wire Harness Connector) and VF7 Coil Contacts							A27926CT-ND	11.88/100				42281-1
	VF4 Auto Crimp Terminal 14-18AWG for PB316-ND (Wire Harness Connector) and VF7 Coil Contacts							A27926TR-ND	588.21/11,000				42281-1
	VF4 Auto Crimp Terminal 10-12AWG for PB714-ND (For Wire Harness Style with Molded Bracket)							PB785CT-ND	.14	.13	.12	.09	26A1348C
	VF4 Auto Crimp Terminal 10-12AWG for PB714-ND (For Wire Harness Style with Molded Bracket)							PB785TR-ND	142.50/1,900				26A1348C
	VF4 Auto Crimp Terminal 14-16AWG for PB714-ND (For Wire Harness Style with Molded Bracket)							PB786CT-ND	.24	.21	.19	.15	26A1348B
	VF4 Auto Crimp Terminal 14-16AWG for PB714-ND (For Wire Harness Style with Molded Bracket)							PB786TR-ND	250.00/2,000				26A1348B
ISO Automotive Connectors (VF7 Style) High Capacity — RoHS Compliant													
—	High Capacity Auto Relay Socket (Wire Harness Style)							PB716-ND	1.03	.91	.82	.65	VCF7-1000
	High Capacity Auto Crimp Terminal 10-12AWG for High Capacity Sockets (For Relay Contacts Only)							A32509CT-ND	51.07/100				280756-4
	High Capacity Auto Crimp Terminal 10-12AWG for High Capacity Sockets (For Relay Contacts Only)							A32509TR-ND	510.69/2,000				280756-4

◆ ***RoHS Compliant*** § KHA Sockets will fit sockets designed for PT/PTH Series

Relay Sockets and Accessories

Dimensions in mm

Fig. 1

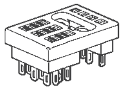

Solder Terminal Socket

Fig. 2

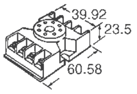

Panel Mount Socket (KRPA shown)

Fig. 3

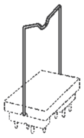

Wire Hold Down Spring

Fig. 4

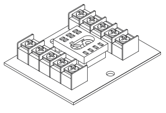

Relay Mount Board

Fig.	Description	Use With Series	Digi-Key Part No.	Price Each				Mfg. Part No.
				1	25	50	100	
1	Solder Terminal Socket, DPDT	K10	PB331-ND	2.04	1.79	1.62	1.28	27E488
2	DIN Rail Screw Mount Socket, DPDT	K10	PB332-ND	6.24	5.46	4.94	3.90	27E895
	Chassis Mount Screw Socket, DPDT	K10	PB642-ND	6.00	5.25	4.75	3.75	27E487
3	Wire Hold Down Spring, DPDT for DIN Rail Socket	K10	PB333-ND	.26	.24	.21	.17	20C297
1	PCB Mount Socket, DPDT	K10	PB334-ND	2.14	1.87	1.70	1.34	27E489
	Solder Terminal Socket, DPDT	R10	PB132-ND	1.54	1.35	1.22	.96	27E125
	Solder Terminal Socket, 4PDT	R10	PB133-ND	1.70	1.50	1.35	1.07	27E126
	PCB Mount Socket, DPDT	R10	PB134-ND	1.46	1.29	1.16	.92	27E128
	PCB Mount Socket, 4PDT	R10	PB135-ND	1.70	1.50	1.35	1.07	27E129
4	Relay Mount Board with Screw Terminals, DP	R10	PB640-ND	18.65	16.32	14.77	11.66	27E460
	Relay Mount Board with Screw Terminals, 4P	R10	PB674-ND	20.45	17.90	16.19	12.78	27E461
	Relay Mount Board with Screw Terminals, 6P	R10	PB641-ND	32.74	28.65	25.92	20.46	27E462
1	R10 Series Bracket Mount Socket with grounding, 4 Pole	R10	PB800-ND	2.45	2.15	1.94	1.53	27E152
	R10 Series Solder Terminal Socket without grounding, DP	R10	PB801-ND	1.37	1.20	1.09	.86	27E162
	R10 Series Solder Terminal Socket without grounding, Solder, 4 Pole	R10	PB802-ND	1.70	1.50	1.35	1.07	27E163
	R10 Series Socket with grounding, PC Staggered Terminal, 4 Pole	R10	PB804-ND	1.70	1.50	1.35	1.07	27E194
	R10 Series Socket without grounding, PC Staggered Terminal, 4 Pole	R10	PB806-ND	1.70	1.50	1.35	1.07	27E213
	R10 Series Bracket Mount Socket with grounding, 2 Pole	R10	PB808-ND	2.21	1.94	1.75	1.38	27E317
	R10 Series In-Line Socket without grounding, DP-2P	R10	PB809-ND	1.37	1.20	1.09	.86	27E342
	R10 Series Flange Mount Socket with grounding, DP	R10	PB811-ND	1.99	1.75	1.58	1.25	27E446
	R10 Series In-Line Socket without grounding, 6 Pole	R10	PB812-ND	2.40	2.10	1.90	1.50	27E630
3	Relay Anchor Clip for 27E893	R10	PB793-ND	.67	.59	.54	.42	20C330
	Wire Hold Down Spring, DPDT	R10	PB136-ND	.26	.24	.21	.17	20C249
	Wire Hold Down Spring, 4PDT	R10	PB137-ND	.26	.24	.21	.17	20C250
	Wire Hold Down Strap (for P.C. Socket Only), all poles	R10	PB138-ND	.26	.24	.21	.17	20C259
	R10 Series Relay Hold Down Spring, 8P	R10	PB790-ND	.46	.40	.37	.29	20C266
	R10S Series Relay Hold Down Spring, DP	R10S	PB791-ND	.67	.59	.54	.42	20C300
1	Solder Terminal Socket, 4PDT	KHA/PT/PTH	PB144-ND	1.66	1.45	1.32	1.04	27E006
	PCB Mount Socket without grounding, DP-DPDT	KHA/PT/PTH	PB807-ND	1.37	1.20	1.09	.86	27E220
	PCB Mount Socket, 4PDT	KHA/PT/PTH	PB145-ND	1.54	1.35	1.22	.96	27E007
3	Wire Hold Down Spring, KHA-4PDT/K10-DPDT	KHA/K10	PB146-ND	.26	.24	.21	.17	20C217
2	Chassis Mount Screw Mount Socket, 4PDT	KHA	PB147-ND	11.69	10.23	9.26	7.31	27E166
	DIN Rail Mount Screw Terminal Socket, 4PDT	KHA	PB148-ND	9.24	8.09	7.32	5.78	27E894
1	PCB Terminal Socket, 4PDT	KH	PB523-ND	1.34	1.18	1.07	.84	27E023
2	Chassis Mount Screw Terminal Socket, all poles	KUP	PB165-ND	7.78	6.81	6.16	4.86	27E121
	DIN Rail Mount Screw Terminal Socket, all poles	KUP	PB166-ND	10.61	9.29	8.40	6.63	27E893
4	Relay Mount Board with Screw Terminals, 4P	KUP	PB643-ND	20.54	17.98	16.27	12.84	27E867
	Hard Mount Socket with Solder Terminals, SP-3P	KUP	PB639-ND	2.04	1.79	1.62	1.28	27E043
1	PCB Terminal Socket with Mounting Ears, DP, 3P	KU	PB522-ND	2.42	2.13	1.92	1.52	27E046
3	Wire Hold Down Spring for Hard Mount Sockets	KUP	PB607-ND	.67	.59	.54	.42	20C228
	Wire Hold Down Spring, Snap Type for Hard Mount Sockets	KUP	PB608-ND	.26	.24	.21	.17	20C254
	Wire Hold Down Spring for Hard Mount Sockets	KUP	PB609-ND	.46	.40	.37	.29	20C314
2	8-Pin Octal Screw Terminal Socket, all poles	KRPA	PB177-ND	5.45	4.77	4.32	3.41	27E122
	11-Pin Octal Screw Terminal Socket, all poles	KRPA	PB178-ND	6.02	5.28	4.77	3.77	27E123
—	Spacer for KRPA Series Relay	KRPA	PB179-ND	1.44	1.26	1.14	.90	21B212
2	DIN Rail Mount Socket, DPDT	KRPA	PB520-ND	5.86	5.13	4.64	3.66	27E891
	DIN Rail Mount Socket, 3PDT	KRPA	PB521-ND	8.83	7.73	7.00	5.52	27E892
3	Wire Hold Down Spring Screw Attach Type	KRPA	PB644-ND	1.99	1.75	1.58	1.25	20C176
	Wire Hold Down Spring for 27E891 and 27E892	KRPA	PB645-ND	.26	.24	.21	.17	20C318
	Relay Hold Down Spring for KRP3 Series	KRP3	PB787-ND	4.63	4.06	3.67	2.90	20C206
	Relay Hold Down Spring for KRP3 and KAP Series	KRPA	PB788-ND	1.32	1.16	1.05	.83	20C247
	Relay Hold Down Spring for KRPA Series Sockets	KRPA	PB792-ND	.46	.40	.37	.29	20C317
	Relay Hold Down Clip for KRP Sockets	KRP	PB794-ND	1.99	1.75	1.58	1.25	20C419
—	Plastic Twist Type Mount Clip	KRPA	PB796-ND	.77	.68	.61	.48	24A072
3	Relay Hold Down Spring for 27E487 and 27E895	K10	PB795-ND	.67	.59	.54	.42	20C426
—	KU Series Relay Socket without grounding, 1-3 Pole	KU	PB810-ND	3.26	2.86	2.59	2.04	27E396
	K10 Series Mounting Strip, 8 Pole	K10	PB815-ND	18.41	16.11	14.58	11.51	37D633
	DIN Rail Track, 36" (91.44cm) for DIN Rail Sockets, Aluminum	ALL	PB345-ND	12.00	10.50	9.50	7.50	24A110
	Hold Down Clip, for use with DIN Rail	ALL	PB346-ND	1.99	1.75	1.58	1.25	24A071
	Plastic Spacer for DIN Rail Sockets	ALL	PB347-ND	1.61	1.41	1.28	1.01	40G432

I/O Modules

Features:
- Industry standard package and pin-out
- Color coded by function
- 4,000Vrms optical isolation
- High immunity to false operation
- Output modules can be controlled from sinking or sourcing logic

Dim. in Inches

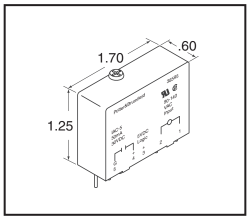

Input Voltage	Input I (mA)	Output Current @	Output Voltage	Package Color	Turn On Time	Turn Off Time	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Potter & Brumfield Part No.
90 ~ 140VAC/DC	6	50mA	30VDC	Yellow	20	30	PB537-ND	14.40	12.60	11.40	IAC-5
3.3 ~ 32VDC	1 ~ 20	50mA	30VDC	White	1	1	PB538-ND◆	14.40	12.60	11.40	IDC-5
3 ~ 32VDC	34	50mA	20 ~ 30 VDC	White	1	1	PB703-ND◆	15.19	13.30	12.03	IDC-24
3 ~ 8VDC	1 ~ 20	3A	24 ~ 280VAC	Black	8.3	8.3	PB539-ND◆	14.40	12.60	11.40	OAC-5
3 ~ 8VDC	1 ~ 20	3A	24 ~ 280VAC	Black	8.3	8.3	PB698-ND◆	14.40	12.60	11.40	OAC-5A
3 ~ 8VDC	1 ~ 20	5A	24 ~ 280VAC	Black	8.3	8.3	PB701-ND◆	17.40	15.23	13.78	OAC-5H
3 ~ 8VDC	1 ~ 20	3A	24 ~ 280VAC	Black Mini	8.3	8.3	PB702-ND◆	14.42	12.63	11.42	OACM-5
3 ~ 8VDC	1 ~ 20	5A	24 ~ 280VAC	Black Mini	8.3	8.3	PB705-ND◆	17.40	15.23	13.78	OACM-5H
9 ~ 18VDC	1 ~ 13	3A	24 ~ 280VAC	Black	8.3	8.3	PB700-ND◆	15.22	13.32	12.05	OAC-15
18 ~ 32VDC	1 ~ 13	3A	24 ~ 280VAC	Black	8.3	8.3	PB699-ND◆	14.83	12.98	11.75	OAC-24
3 ~ 8VDC	1 ~ 20	3A	3 ~ 60VDC	Red	1	.75	PB541-ND	14.40	12.60	11.40	ODC-5
9 ~ 18VDC	1 ~ 13	3A	3 ~ 60VDC	Red	.10	.75	PB704-ND◆	15.24	13.34	12.07	ODC-15
18 ~ 32VDC	1 ~ 13	3A	3 ~ 60VDC	Red	1	.75	PB540-ND	14.83	12.98	11.75	ODC-24
I/O Mounting Board 4 Position, Negative True Logic - Screw Terminal							PB696-ND◆	47.62	41.67	37.70	2IO4A
I/O Mounting Board 4 Position, Negative or Positive True Logic - Screw Terminal							PB695-ND◆	47.62	41.67	37.70	2IO4B
I/O Mounting Board 16 Position, Negative or Positive True Logic - Screw Terminal							PB697-ND◆	181.32	158.66	143.55	2IO16B

◆ *RoHS Compliant*

Solid State Relays

Dim. in Inches

Potter & Brumfield Models SSR are SPST "Hockey Puck" style solid state relays for general power switching applications. These feature a dual, back to back SCR, Zero-Cross switching output for most inductive and high inrush loads. Parts ending in "R" are random turn-on outputs for phase control applications. SSRD (Dual) and SSRQ (Quad) are multiple output relays where each output is controlled separately. SSRT are SPST "Hockey Puck" style relays with snubberless Triac Outputs for inductive switching and high inrush applications. Enhanced noise immunity (designed to meet level 3 requirements of European EMC Directive). Includes LED indicator and floating terminal design.

Fig. 1

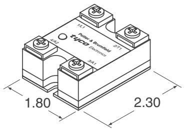

Fig. 2

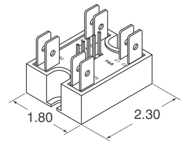

Fig.	Input Voltage	Operate Voltage	Release Voltage	Output Voltage	Output Current (Arms)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Potter & Brumfield Part No.
					SSR Series — SCR Output					
1	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.1 ~ 25	PB545-ND	43.68	38.22	34.58	SSR-240D25
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.1 ~ 25	PB546-ND	47.66	41.71	37.74	SSR-240D25R
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.1 ~ 50	PB547-ND	63.65	55.70	50.39	SSR-240D50
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.1 ~ 125	PB544-ND	116.26	101.73	92.04	SSR-240D125
	3 ~ 32VDC	3VDC	1VDC	48 ~ 660VAC	.1 ~ 125	PB707-ND◆	97.44	85.26	77.14	SSR-480D125
	90 ~ 280VAC	90VAC	10VAC	24 ~ 240VAC	.1 ~ 25	PB542-ND◆	51.70	45.24	40.93	SSR-240A25
	90 ~ 280VAC	90VAC	10VAC	24 ~ 240VAC	.1 ~ 50	PB543-ND◆	71.66	62.71	56.74	SSR-240A50
					SSRT Series — Triac Output					
1	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.05 ~ 10	PB553-ND	33.84	29.61	26.79	SSRT-240D10
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.05 ~ 25	PB554-ND	39.74	34.78	31.47	SSRT-240D25
	90 ~ 280VAC	90VAC	10VAC	24 ~ 240VAC	.1 ~ 10	PB706-ND◆	37.78	33.06	29.91	SSRT-240A10
	90 ~ 280VAC	90VAC	10VAC	24 ~ 240VAC	.05 ~ 25	PB552-ND	47.66	41.71	37.74	SSRT-240A25
					SSRD Series — Dual Output					
2	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.05 ~ 25	PB548-ND	90.19	78.92	71.41	SSRD-240D25
	4 ~ 15VDC	4VDC	1VDC	24 ~ 240VAC	.05 ~ 25	PB549-ND	85.49	74.81	67.68	SSRD-240D25R
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.05 ~ 40	PB550-ND	99.41	86.99	78.70	SSRD-240D40
					SSRQ Series — Quad AC Output					
2	4 ~ 15VDC	4VDC	1VDC	24 ~ 280VAC	.05 ~ 20	PB551-ND	127.30	111.39	100.78	SSRQ-240D20

◆ *RoHS Compliant*

Safety Relays

Safety-implemented circuits must be control reliable as mandated in the U.S. and European safety standards. Safety relays have the function to positively isolate safety circuits of emergency shut-off, machine control, elevator and escalator controls, light barrier control, furnaces, medical apparatus or any application requiring redundant shutoff safety requirements. These relays are designed with force guided contacts where in the event of a fault (1 contact welds closed), the second contact must carry out the switch off condition.

Dim. in mm

Fig. 1

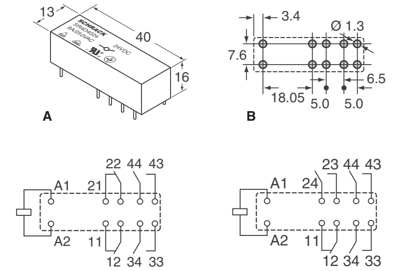

Fig. 2

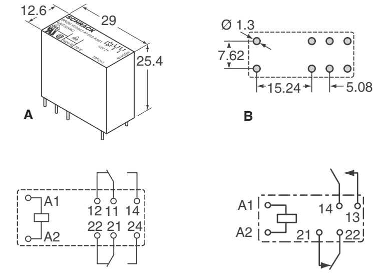

Fig. 3

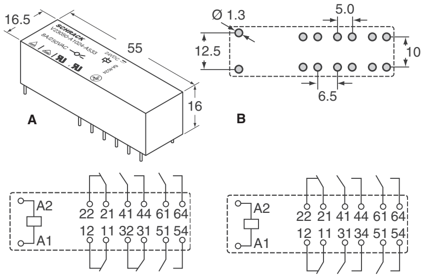

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type	Forcibly Guided Contacts	Brand Name	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Price Each 100	Schrack Part No.
						SR4 D/M Series							
1A	4PST	5 VDC	161	8	PC Mount	2-NO + 2-NC	Schrack	PB998-ND	20.09	17.58	15.91	12.56	SR4D4005
1A	4PST	12 VDC	66.6	8	PC Mount	2-NO + 2-NC	Schrack	PB999-ND	20.09	17.58	15.91	12.56	SR4D4012
1A	4PST	24 VDC	33.3	8	PC Mount	2-NO + 2-NC	Schrack	PB661-ND	19.99	17.50	15.83	12.50	SR4D4024
1B	4PST	12 VDC	66.6	8	PC Mount	3-NO + 1-NC	Schrack	PB1000-ND	23.28	20.37	18.43	14.55	SR4M4012
1B	4PST	24 VDC	33.3	8	PC Mount	3-NO + 1-NC	Schrack	PB662-ND	19.80	17.33	15.68	12.38	SR4M4024
						V23047 Series — SR2M Sealed, Single Relay							
2A	DPDT	12 VDC	60.0	6	PC Mount	4	Schrack	PB675-ND	7.46	6.54	5.91	4.67	V23047-A1012-A501
2B	DPST	12 VDC	60.0	6	PC Mount	2	Schrack	PB676-ND	7.25	6.35	5.74	4.53	V23047-A1012-A511
2A	DPDT	24 VDC	30.0	6	PC Mount	4	Schrack	PB659-ND	7.46	6.54	5.91	4.67	V23047-A1024-A501
2B	DPST	24 VDC	30.0	6	PC Mount	2	Schrack	PB660-ND	7.25	6.35	5.74	4.53	V23047-A1024-A511
						V23050 Series — SR6 Sealed, Single Relay							
3A	6PST	24 VDC	50.0	8	PC Mount	6	Schrack	PB663-ND	21.48	18.80	17.01	13.43	V23050-A1024-A533
3B	6PST	24 VDC	50.0	8	PC Mount	6	Schrack	PB664-ND	21.74	19.03	17.22	13.59	V23050-A1024-A542

Input/Output Modules and Racks

Fig. 1 — Standard

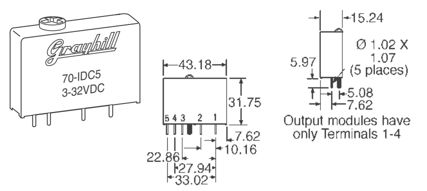

Fig. 2 — Mounting Board
(70RCK4 Board Shown)

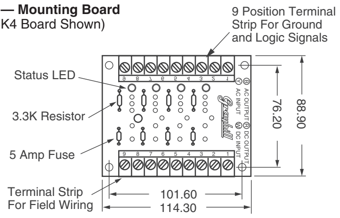
9 Position Terminal Strip For Ground and Logic Signals
Status LED
3.3K Resistor
5 Amp Fuse
Terminal Strip For Field Wiring
76.20
88.90
101.60
114.30

Fig. 3 — Mini

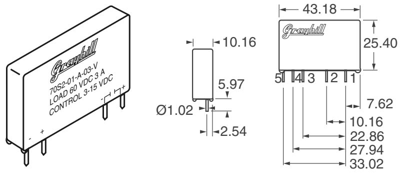

Fig. 4

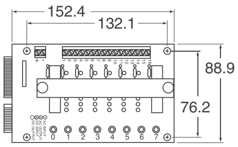

Fig. 5 — G5 Full Size

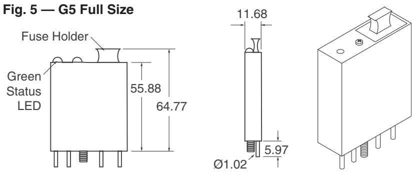

Fig. 6

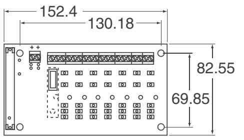

Our line of pluggable input and output modules provide a low cost, versatile method for interconnecting real world analog and digital signals to data acquisition, monitoring, or control systems. All modules provide an optically isolated barrier between sensitive microprocessor or digital logic circuits and field power devices. The case color of these modules identify their function: Digital AC Output Module = Black Case; Digital DC Output Module = Red Case; Digital AC Input Module = Yellow Case; Digital DC Input Module = White Case; Analog Output Module = Orange Case; Analog Input Module = Blue Case. **FEATURES:** • Transient protection meets the requirements of IEEE472 "Surge Withstanding Capability Test" • 4000VAC Optical Isolation **GENERAL CHARACTERISTICS: • Operating Temperature Range:** -40°C ~ 100°C **• UL File No.:** E58632 **• CSA File No.:** L38763 **GENERAL SPECIFICATIONS: • Operating Temperature:** 0°C ~ 60°C **• Short Circuit Protection:** Output signal can be shorted to ground without damaging the module ***Voltage Output Modules:*** **• Supply Voltage:** 4.5 ~ 5.5VDC **• Supply Current @5 VDC:** 140 mA maximum ***Current Output Modules:*** **• Supply Voltage:** 4.5 ~ 5.5VDC **• Supply Current @5 VDC:** 240 mA maximum **• Output Current (Sourcing):** 20mA maximum ***Voltage Input Modules:*** **• Supply Voltage:** 4.5 ~ 5.5VDC **• Supply Current @ 5VDC:** 150 mA maximum **• Output Frequency:** 14.4 ~ 72.0 KHz squarewave **• Squarewave Duty Cycle:** 40% ~ 60% **• Accuracy:** ±0.1% (DC Version), ±0.3% (AC Versions)

	INPUT CIRCUIT		OUTPUT CIRCUIT									
Fig.	Nominal Voltage	Range	Nominal Voltage	Range	Load Current (Rms)	T on Time	T off Time	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
Digital I/O Modules — Standard Size												
1	5 VDC	2.5 ~ 10	120 VAC	24 ~ 140	.030 ~ 3.5A	8.3ms	8.3ms	GH7018-ND	9.98	8.98	8.48	70-OAC5
	5 VDC	2.5 ~ 10	240 VAC	24 ~ 280	.030 ~ 3.5A	8.3ms	8.3ms	GH7413-ND ***NEW!***	11.03	9.94	9.38	70-OAC5A
	24 VDC	15 ~ 30	120 VAC	24 ~ 140	.030 ~ 3.5A	8.3ms	8.3ms	GH7434-ND ***NEW!***	9.98	8.98	8.48	70-OAC24
	5 VDC	2.5 ~ 10	60 VDC	3 ~ 60	.020 ~ 3.5A	20µs	50µs	GH7019-ND	9.98	8.98	8.48	70-ODC5
	5 VDC	4.8 ~ 6	100 VDC/120 VAC	0~100 VDC/0~120 VAC	.5A DC	1ms	1ms	GH7414-ND ***NEW!***	17.26	15.54	14.68	70-ODC5R
	15 VDC	10 ~ 18	60 VDC	3 ~ 60	.02 ~ 3.5A	20µs	50µs	GH7415-ND ***NEW!***	9.98	8.98	8.48	70-ODC15
	24 VDC	15 ~ 30	60 VDC	3 ~ 60	.02 ~ 3.5A	20µs	50µs	GH7416-ND ***NEW!***	9.98	8.98	8.48	70-ODC24
	5 VDC	3 ~ 6	120 VAC	90 VAC~140 VDC	1 ~ 50mA	20ms	20ms	GH7020-ND	9.98	8.98	8.48	70-IAC5
	24 VDC	15 ~ 30	120 VAC	90 VAC~140 VDC	1 ~ 50mA	20ms	20ms	GH7418-ND ***NEW!***	9.98	8.98	8.48	70-IAC24
	5 VDC	3 ~ 6	32 VDC	3 ~ 32	1 ~ 50mA	.20ms	.40ms	GH7021-ND	9.98	8.98	8.48	70-IDC5
	5 VDC	3 ~ 6	32 VDC	3 ~ 32	1 ~ 50mA	.05ms	.075ms	GH7417-ND ***NEW!***	9.98	8.98	8.48	70-IDC5B
Mounting Boards for Standard Modules												
2	Mounting Board for 4 Standard I/O Modules - Terminal Block - Negative Logic Only							GH7028-ND	20.43	19.42	—	70RCK4
	Mounting Board for 4 Standard I/O Modules - Terminal Block - Negative or Positive Logic							GH3035-ND	21.50	20.43	—	70RCK4R
—	Mounting Board for 8 Standard I/O Modules - Card Edge Connector Only							GH7029-ND	40.51	38.48	—	70RCK8
	Mounting Board for 8 Standard I/O Modules - 50 Pin Header with Ejector Levers							GH3044-ND	44.44	42.22	—	70RCK8-HL
	Mounting Board for 16 Standard I/O Modules - Card Edge Connector Only							GH7031-ND	65.59	62.31	—	70RCK16
	Mounting Board for 16 Standard I/O Modules - 50 Pin Header with Ejector Levers							GH3045-ND	69.53	66.06	—	70RCK16-HL
	Mounting Board for 24 Standard I/O Modules - Card Edge Connector Only							GH3007-ND	108.95	103.51	—	70RCK24
	Mounting Board for 24 Standard I/O Modules - 50 Pin Header with Ejector Levers							GH7435-ND ***NEW!***	113.26	107.60	—	70RCK24-HL
Digital I/O Modules — Miniature Size												
3	5 VDC	2.5 ~ 10	120 VAC	24 ~ 140	.030 ~ 3A	8.3ms	8.3ms	GH7022-ND	9.98	8.98	8.48	70M-OAC5
	5 VDC	2.5 ~ 10	240 VAC	24 ~ 280	.030 ~ 3A	8.3ms	8.3ms	GH7023-ND	11.03	9.94	9.38	70M-OAC5A
	24 VDC	15 ~ 30	120 VAC	24 ~ 140	.030 ~ 3A	8.3ms	8.3ms	GH7419-ND ***NEW!***	9.98	8.98	8.48	70M-OAC24
	5 VDC	2.5 ~ 10	60 VDC	3 ~ 60	.020 ~ 3A	20µs	50µs	GH7024-ND	9.98	8.98	8.48	70M-ODC5
	5 VDC	2.5 ~ 9	200 VDC	4 ~ 200	.020 ~ 3A	75µs	750µs	GH7420-ND ***NEW!***	16.80	15.13	14.29	70M-ODC5A
	5 VDC	2.5 ~ 10	60 VDC	3 ~ 60	.020 ~ 3A	75µs	500µs	GH7421-ND ***NEW!***	9.98	8.98	8.48	70M-ODC5B
	5 VDC	4.8 ~ 6	100 VDC/120 VAC	0~100 VDC/0~120 VAC	.5A DC	1ms	1ms	GH7422-ND ***NEW!***	17.26	15.54	14.68	70M-ODC5R
	15 VDC	10 ~ 18	60 VDC	3 ~ 60	.020 ~ 3A	20µs	50µs	GH7025-ND	9.98	8.98	8.48	70M-ODC15
	24 VDC	15 ~ 30	60 VDC	3 ~ 60	.020 ~ 3A	20µs	50µs	GH7436-ND ***NEW!***	9.98	8.98	8.48	70M-ODC24
	5 VDC	3 ~ 6	120 VAC	90 VAC ~ 140 VDC	1 ~ 50mA	20ms	20ms	GH7026-ND	9.98	8.98	8.48	70M-IAC5
	5 VDC	3 ~ 6	240 VAC	180 VAC ~ 280 VDC	1 ~ 50mA	20ms	20ms	GH7423-ND ***NEW!***	9.98	8.98	8.48	70M-IAC5A
	5 VDC	3 ~ 6	32 VDC	3 ~ 32	1 ~ 50mA	200µs	400µs	GH7027-ND	9.98	8.98	8.48	70M-IDC5
Mounting Boards for Miniature Modules												
4	Mounting Board for 8 Mini I/O Modules - Card Edge Connector Only							GH7030-ND	44.08	41.88	—	70MRCK8-EC
	Mounting Board for 24 Mini I/O Modules - Card Edge Connector Only							GH3008-ND	118.63	112.70	—	70MRCK24-EC
	Mounting Board for 8 Mini I/O Modules - 50 Pin Header with Ejector Levers							GH7424-ND ***NEW!***	46.59	44.27	42.87	70MRCK8-HL
	Mounting Board for 16 Mini I/O Modules - 50 Pin Header with Ejector Levers							GH7437-ND ***NEW!***	73.83	70.14	67.93	70MRCK16-HL
	Mounting Board for 24 Mini I/O Modules - 50 Pin Header with Ejector Levers							GH7438-ND ***NEW!***	122.94	116.79	113.11	70MRCK24-HL
	Mounting Board for 24 Mini I/O Modules - (12x12) 50 Pin Header with Ejector Levers							GH7425-ND ***NEW!***	117.56	111.68	108.16	70MRCQ24-HL
	Mounting Board for 32 Mini I/O Modules - (16x16) 50 Pin Header with Ejector Levers							GH7439-ND ***NEW!***	144.80	137.57	133.22	70MRCQ32-HL
Digital I/O Modules — G5 Full Size with Status LED												
5	5 VDC	4 ~ 6	120 VAC	24 ~ 140	.030 ~ 3.5A	8.3ms	8.3ms	GH3037-ND	11.56	10.41	9.83	70G-OAC5
	5 VDC	4 ~ 6	240 VAC	24 ~ 280	.030 ~ 3.5A	8.3ms	8.3ms	GH3038-ND	12.57	11.31	10.69	70G-OAC5A
	15 VDC	8 ~ 20	120 VAC	24 ~ 140	.030 ~ 3.5A	8.3ms	8.3ms	GH3039-ND	11.56	10.41	9.83	70G-OAC15
	24 VDC	18 ~ 32	120 VAC	24 ~ 140	.030 ~ 3.5A	8.3ms	8.3ms	GH7440-ND ***NEW!***	11.56	10.41	9.83	70G-OAC24
	5 VDC	4 ~ 6	60 VDC	3 ~ 60	.020 ~ 3.5A	20µs	50µs	GH3040-ND	11.56	10.41	9.83	70G-ODC5
	5 VDC	4 ~ 6	200 VDC	4 ~ 200	.020 ~ 3.5A	75µs	750µs	GH7426-ND ***NEW!***	18.39	16.56	15.64	70G-ODC5A
	5 VDC	4 ~ 6	60 VDC	3 ~ 60	.020 ~ 3.5A	75µs	500µs	GH7427-ND ***NEW!***	11.56	10.41	9.83	70G-ODC5B
	5 VDC	4.8 ~ 6	100 VDC/120 VAC	0~100 VDC/0~120 VAC	.5A DC	1ms	1ms	GH7441-ND ***NEW!***	19.53	17.59	16.61	70G-ODC5R
	15 VDC	10 ~ 20	60 VDC	3 ~ 60	.020 ~ 3.5A	20µs	50µs	GH3041-ND	11.56	10.41	9.83	70G-ODC15
	24 VDC	18 ~ 32	60 VDC	3 ~ 60	.020 ~ 3.5A	20µs	50µs	GH7428-ND ***NEW!***	11.56	10.41	9.83	70G-ODC24
	5 VDC	4.5 ~ 6	120 VAC	90 ~ 140	1 ~ 50mA	20ms	20ms	GH3042-ND	10.51	9.46	8.94	70G-IAC5
	5 VDC	4.5 ~ 6	240 VAC	180 VAC~ 280 VDC	1 ~ 50mA	20ms	20ms	GH7429-ND ***NEW!***	10.51	9.46	8.94	70G-IAC5A
	24 VDC	17 ~ 30	120 VAC	90 ~ 140	1 ~ 50mA	20ms	20ms	GH7442-ND ***NEW!***	10.51	9.46	8.94	70G-IAC24
	5 VDC	4.5 ~ 6	32 VDC	3 ~ 32	1 ~ 50mA	200µs	400µs	GH3043-ND	10.51	9.46	8.94	70G-IDC5
	5 VDC	4.5 ~ 6	32 VDC	15~32 VAC/10~32 VDC	1 ~ 50mA	5ms	5ms	GH7443-ND ***NEW!***	10.51	9.46	8.94	70G-IDC5NP
	5 VDC	4.5 ~ 6	Dry Contact	—	1 ~ 50mA	3.0ms	3.0ms	GH7430-ND ***NEW!***	32.78	29.50	27.87	70G-IDC5S
	24 VDC	17 ~ 30	32 VDC	3 ~ 32	1 ~ 50mA	.20ms	.40ms	GH7431-ND ***NEW!***	10.51	9.46	8.94	70G-IDC24
Mounting Boards — G5 Full Size Modules												
—	Mounting Board for 4 G5 I/O Modules - Negative True Logic							GH7432-ND ***NEW!***	20.43	19.42	18.80	70GRCK4
	Mounting Board for 4 G5 I/O Modules - Terminal Block - Negative or Positive Logic							GH3031-ND	21.50	—	19.36	70GRCK4R
6	Mounting Board for 8 G5 I/O Modules, 50 Pin Header with Ejector Levers							GH3032-ND	46.59	—	41.94	70GRCK8-HS
	Mounting Board for 16 G5 I/O Modules, 50 Pin Header with Ejector Levers							GH7444-ND ***NEW!***	69.53	66.06	63.97	70GRCK16-HL
	Mounting Board for 24 G5 I/O Modules, (12x12) 50 Pin Header with Ejector Levers							GH7433-ND ***NEW!***	117.56	111.68	108.16	70GRCQ24-HL
	Mounting Board for 32 G5 I/O Modules, (16x16) 50 Pin Header with Ejector Levers							GH7445-ND ***NEW!***	144.80	137.57	133.22	70GRCM32-HL

Optoelectronic Power IC Relays

Fig. 1

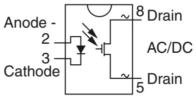

Fig. 2

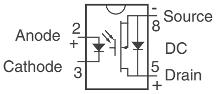

Fig. 3

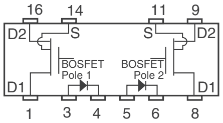

Fig. 4

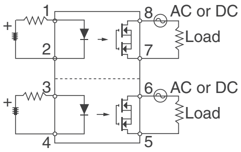

Fig. 5

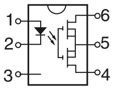

Fig. 6

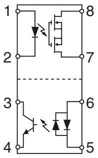

Fig. 7

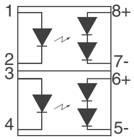

Fig. 8

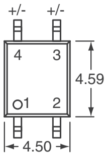

Fig.	Input Led			Vrange	Output Circuit Imax (mA)	Ton/ Toff	Package	Digi-Key Part No.	Price Each		
	Vf (Volt)	Imin (mA)	Imax (mA)						1	10	100
1	1.0	5	25	0 ~ 60V AC	1000	2ms/0.5ms	8-SMD	PVAZ172NS-ND	10.15	8.12	6.09
	1.2	10	25	0 ~ 60V AC	1000	2ms/0.5ms	8-Dip	PVAZ172N-ND	10.00	8.00	7.00
	1.2	2	25	0 ~ ±100V AC/DC	550	150µs/70µs	8-Dip	PVA1352N-ND	6.00	4.80	3.60
	1.2	2	25	0 ~ ±100V AC/DC	550	150µs/70µs	8-SMD	PVA1352NS-ND	7.29	4.86	3.89
	1.2	2	25	0 ~ ±200V AC/DC	150	100µs/70µs	8-Dip	PVA2352N-ND	5.38	4.30	3.23
	1.2	2	25	0 ~ ±300V AC/DC	50	60µs/60µs	8-Dip	PVA3054N-ND	6.50	5.20	3.90
	1.2	2	25	0 ~ ±300V AC/DC	50	60µs/60µs	8-SMD	PVA3055NS-ND	7.58	5.20	4.55
	1.2	—	25	0 ~ ±300V AC/DC	150	100µs/70µs	8-SMD	PVA3354NS-ND	6.58	4.51	3.95
	1.2	2	25	0 ~ ±100V AC/DC	550	25µs/15µs	8-Dip	PVD1354N-ND	6.88	5.09	4.13
2	1.2	2	25	0 ~ 100V DC	550	150µs/70µs	8-SMD	PVD1352NS-ND	6.45	4.43	3.87
	1.2	2	25	0 ~ 100V DC	550	150µs/70µs	8-SMD	PVD1354NS-ND	6.95	4.77	4.17
	1.2	2	25	0 ~ 300V DC	240	100µs/70µs	8-SMD	PVD3354NS-ND	6.95	5.15	4.17
3	1.2	2	25	0 ~ ±100V AC/DC	360	150µs/70µs	16-Dip	PVR1301N-ND	14.00	11.20	8.40
	1.2	2	25	0 ~ ±300V AC/DC	165	100µs/70µs	16-Dip	PVR3301N-ND	14.00	11.20	8.40
4	1.25	2	25	0 ~ ±250V AC/DC	170	3.0ms/0.5ms	8-SMD	PVT322AS-TTR-ND	3956.25/750		
5	1.2	5	25	0 ~ 60V AC/DC	3000	3ms/0.5ms	6-SMD	PVG612AS-TCT-ND§	9.18	6.79	5.51
	1.2	5	25	0 ~ 60V AC/DC	3000	3ms/0.5ms	6-SMD	PVG612AS-TTR-ND	3578.25/750		
	1.2	5	25	0 ~ ± 60V AC/DC	1.0	2.0ms/0.5ms	6-SMD	PVG613S-ND	9.58	6.57	5.75
	1.25	3	25	0 ~ ±20V AC/DC	2500	5.0ms/0.5ms	6-SMD	PVN012S-ND	6.00	4.80	4.20
	2.0	2	25	0 ~ 250V AC/DC	2	3.0/.05ms	6-SMD	PVT312LS-ND	3.18	2.12	1.70
	1.25	3	25	0 ~ ±400V AC/DC	140	2.0ms/0.5ms	6-SMD	PVT412LS-ND	2.65	2.12	1.85
	1.25	3	25	0 ~ ±400V AC/DC	140	2.0ms/0.5ms	6-SMD	PVT412S-ND	3.09	2.06	1.65
6	1.25	3	25	0 ~ 400V AC/DC	120	2.0ms/.5ms	Thin-Pak	PVO402P-ND	5.95	4.76	4.18
7	2.0	2	25	0 ~ 250V AC/DC	2	3.0/.5ms	8-SMD	PVT322AS-ND	10.38	8.30	6.23
8	1.2	2	—	0 ~ 40V DC	470	110µs/30µs	4-SOP	PVY117-TCT-ND§	7.00	5.18	4.20
	1.2	2	—	0 ~ 40V DC	470	110µs/30µs	4-SOP	PVY117-TTR-ND	5670.00/1,500		

† Employs current limiting circuitry to withstand current transients. § Cut Tape Pricing

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Solid State Relays and Switches —

OptoMos® Solid State Relays

As a leading supplier of Solid State Relays (SSRs) to the communications industry, Clare has pioneered the application of SSR solutions that both replace electromechanical devices and enhance performance in wireline interface applications. Clare's products enable communications by providing the critical interface between high voltage electrical signals and the low voltage electronics that process those signals. LITELINK® III single-chip silicon phone line interfaces (DAA) use optical technology to include the required isolation barrier in the package, eliminating high cost capacitors or transformers. This solution saves cost relative to competitive solutions through reduced passive component count and less board space. LITELINK III supports differential and single-end receive and transmit ports providing an easy interface to popular modem ICs codecs and voice SLAC devices. **Features:** • Voice and data applications • Modem DAA for speeds up to V.92 • Caller-ID reception • 3.3 or 5V power supply **Applications:** • Computer telephony • Satellite set-top box • V.92 modems • Fax machines • Voice mail systems • Automated banking • Security systems

Fig.	Circuit	Load Voltage (V)	Load Current (mA)	Input§ Control Current (mA)	Switching Speeds T_{ON} / T_{OFF} (ms)	Package	Digi-Key Part No.	Price Each 1	25	50	Tape & Reel† Qty.	Pricing	Clare Part No.
1	SPST-NO	60	700	2	5/2	4-SOP	CLA230CT-ND‡	1.46	1.24	1.02	2,000	630.00/M	CPC1002NTR
	SPST-NO	100	300	2	3/1	4-SOP	CLA154-ND	2.02	1.71	1.40	—	—	CPC1004N
	SPST-NO	100	300	2	3/1	4-SOP	CLA231CT-ND‡	2.02	1.71	1.40	2,000	868.00/M	CPC1004NTR
	SPST-NO	100	150	2	2/0.5	4-SOP	CLA216CT-ND‡	1.69	1.43	1.17	2,000	780.00/M	CPC1008NTR
	SPST-NO	100	100	2	2/0.5	4-SOP	CLA160-ND	1.69	1.43	1.17	—	—	CPC1016N
	SPST-NO	100	100	2	2/0.5	4-SOP	CLA232CT-ND‡	1.69	1.43	1.17	2,000	728.00/M	CPC1016NTR
	SPST-NO	60	100	1	10/10	4-SOP	CLA153-ND	1.37	1.16	.95	—	—	CPC1017N
	SPST-NO	60	100	1	10/10	4-SOP	CLA233CT-ND‡	1.37	1.16	.95	2,000	588.00/M	CPC1017NTR
	SPST-NO	60	600	2	2/1	4-SOP	CLA225CT-ND‡	3.38	2.86	2.34	2,000	1456.00/M	CPC1018NTR
	SPST-NO	400	120	2	2/1	4-SOP	CLA222-ND	2.60	2.20	1.80	—	—	CPC1025N
	SPST-NO	400	120	2	2/1	4-SOP	CLA234CT-ND‡	2.60	2.20	1.80	2,000	1120.00/M	CPC1025NTR
	SPST-NO	350	120	2	2/1	4-SOP	CLA217CT-ND‡	2.24	1.90	1.56	2,000	1035.00/M	CPC1030NTR
	SPST-NO	350	100	2	2/1	4-SOP	CLA218CT-ND‡	1.95	1.65	1.35	2,000	900.00/M	CPC1035NTR
	SPST-NC	60	150	1	1/2	4-SOP	CLA268CT-ND‡	1.50	1.27	1.04	2,000	690.00/M	CPC1117NTR
	SPST-NC	350	120	2	2/2	4-SOP	CLA226CT-ND‡	2.93	2.48	2.03	2,000	1260.00/M	CPC1130NTR
	SPST-NC	350	120	2	1/2	4-SOP	CLA219CT-ND‡	2.24	1.90	1.56	2,000	1035.00/M	CPC1150NTR
	SPST-NO	350	120	2	2/1	4-SOP	CLA161-ND	2.60	2.20	1.76	—	—	CPC1230N
	SPST-NO	350	120	2	2/1	4-SOP	CLA235CT-ND‡	1.92	1.63	1.33	2,000	826.00/M	CPC1230NTR
	SPST-NO	400	140	2	1/0.5	4-Dip	CLA275-ND	2.44	2.07	1.69	—	—	CPC1390G
	SPST-NO	400	140	2	1/0.5	4-SMD	CLA269CT-ND‡	2.44	2.07	1.69	1,000	1125.00	CPC1390GRTR
	SPST-NO	600	100	5	5/5	4-Dip	CLA276-ND	2.50	2.12	1.74	—	—	CPC1393G
	SPST-NO	600	100	5	5/5	4-SMD	CLA270CT-ND‡	2.50	2.12	1.74	1,000	1155.00	CPC1393GRTR
	SPST-NO	250	200	5	2/2	6-Dip	CLA277-ND	2.80	2.37	1.94	—	—	CPC1510G
	SPST-NO	250	200	5	2/2	6-SMD	CLA272CT-ND‡	2.80	2.37	1.94	1,000	1290.00	CPC1510GSTR
2	SPST-NO	70	150	1	2.5/2.5	8-Flatpack	CLA302CT-ND‡ ***NEW!***	2.86	2.42	1.98	1,000	1232.00	CPC1317PTR
	SPST-NO	350	100	1	10/10	8-Flatpack	CLA287CT-ND‡	3.09	2.62	2.14	1,000	1425.00	CPC1335PTR
3	SPST-NO	350	120	5	5/5	6-Dip	CLA177-ND	3.32	2.81	2.30	—	—	LCA100
	SPST-NO	350	120	5	5/5	6-SMD	CLA245CT-ND‡	3.32	2.81	2.30	1,000	1428.00	LCA100STR
	SPST-NO	350	120	2	3/3	6-Dip	CLA101-ND	2.31	1.96	1.60	—	—	LCA110
	SPST-NO	350	120	2	3/3	6-SMD	CLA102CT-ND‡	2.31	1.96	1.60	1,000	852.00	LCA110STR
	SPST-NO	250	170	5	5/5	6-Dip	CLA178-ND	3.45	2.92	2.39	—	—	LCA120
	SPST-NO	250	170	5	5/5	6-SMD	CLA246CT-ND‡	3.51	2.97	2.43	1,000	1512.00	LCA120STR
	SPST-NO	350	170	5	5/5	6-Dip	CLA179-ND	4.00	3.39	2.77	—	—	LCA125
	SPST-NO	350	170	5	5/5	6-SMD	CLA247CT-ND‡	4.06	3.44	2.82	1,000	1750.00	LCA125STR
	SPST-NO	250	200	5	5/5	6-Dip	CLA180-ND	4.00	3.39	2.77	—	—	LCA127
	SPST-NO	250	200	5	5/5	6-SMD	CLA248CT-ND‡	4.06	3.44	2.82	1,000	1750.00	LCA127STR
	SPST-NO	60	1000	10	2.5/0.25	6-Dip	CLA181-ND	6.40	5.42	4.44	—	—	LCA710
	SPST-NO	60	1000	10	2.5/0.25	6-SMD	CLA249CT-ND‡	6.40	5.42	4.44	1,000	2758.00	LCA710STR
	SPST-NC	350	120	5	3/3	6-Dip	CLA105-ND	3.25	2.75	2.25	—	—	LCB110
	SPST-NC	350	120	5	3/3	6-SMD	CLA250CT-ND‡	3.32	2.81	2.30	1,000	1428.00	LCB110STR
	SPST-NC	250	170	5	5/5	6-Dip	CLA182-ND	4.06	3.44	2.82	—	—	LCB120
	SPST-NC	250	170	5	5/5	6-SMD	CLA251CT-ND‡	4.13	3.50	2.86	1,000	1778.00	LCB120STR
	SPST-NC	250	200	5	5/5	6-Dip	CLA183-ND	4.71	3.99	3.27	—	—	LCB127
	SPST-NC	250	200	5	5/5	6-SMD	CLA252CT-ND‡	4.78	4.05	3.31	1,000	2058.00	LCB127STR
	SPST-NO	400	150	5	1/0.25	6-Dip	CLA107-ND	4.19	3.55	2.91	—	—	PLA110
	SPST-NO	400	150	5	1/0.25	6-SMD	CLA263CT-ND‡	4.26	3.61	2.95	1,000	1834.00	PLA110STR
	SPST-NO	400	150	5	1/0.25	6-SMD	CLA156-ND	4.26	3.61	2.95	—	—	PLA110S
	SPST-NO	100	350	5	5/5	6-Dip	CLA192-ND	4.94	4.18	3.42	—	—	PLA134
	SPST-NO	100	350	5	5/5	6-SMD	CLA264CT-ND‡	5.01	4.24	3.47	1,000	2156.00	PLA134STR
	SPST-NO	250	250	5	2.5/0.5	6-Dip	CLA193-ND	4.94	4.18	3.42	—	—	PLA150
	SPST-NO	250	250	5	2.5/0.5	6-SMD	CLA228CT-ND‡	4.97	4.21	3.45	1,000	2142.00	PLA150STR
	SPST-NC	250	250	5	1/2.5	6-Dip	CLA194-ND	5.85	4.95	4.05	—	—	PLB150
	SPST-NC	250	250	5	1/2.5	6-SMD	CLA229CT-ND‡	5.85	4.95	4.05	1,000	2520.00	PLB150STR
	SPST-NO	350	100	5	5/5	6-Dip	CLA200-ND	2.44	2.07	1.69	—	—	XCA170
	SPST-NO	350	100	5	5/5	6-SMD	CLA267CT-ND‡	2.50	2.12	1.74	1,000	1078.00	XCA170STR
4	DPST-NO/NO	350	120	5	3/3	8-Dip	CLA103-ND	5.23	4.43	3.63	—	—	LAA110
	DPST-NO/NO	350	120	5	3/3	8-SMD	CLA236CT-ND‡	5.23	4.43	3.63	1,000	2254.00	LAA110STR
	DPST-NO/NO	250	170	5	5/5	8-Dip	CLA170-ND	5.10	4.32	3.54	—	—	LAA120
	DPST-NO/NO	250	170	5	5/5	8-SMD	CLA237CT-ND‡	5.10	4.32	3.54	1,000	2198.00	LAA120STR
	DPST-NO/NO	350	170	5	5/5	8-Dip	CLA171-ND	5.10	4.32	3.54	—	—	LAA125
	DPST-NO/NO	350	170	5	5/5	8-SMD	CLA238CT-ND‡	5.10	4.32	3.54	1,000	2198.00	LAA125STR
	DPST-NO/NO	250	200	5	5/5	8-Dip	CLA172-ND	7.02	5.94	4.86	—	—	LAA127
	DPST-NO/NO	250	200	5	5/5	8-SMD	CLA239CT-ND‡	7.02	5.94	4.86	1,000	3024.00	LAA127STR
	DPST-NC/NO	350	120	2	3/3	8-Dip	CLA104-ND	5.46	4.62	3.78	—	—	LBA110
	DPST-NC/NO	350	120	2	3/3	8-SMD	CLA240CT-ND‡	5.46	4.62	3.78	1,000	2352.00	LBA110STR
	DPST-NC/NO	250	170	5	5/5	8-Dip	CLA173-ND	6.66	5.64	4.62	—	—	LBA120
	DPST-NC/NO	250	170	5	5/5	8-SMD	CLA241CT-ND‡	6.66	5.64	4.62	1,000	2870.00	LBA120STR
	DPST-NC/NC	350	120	5	3/3	8-Dip	CLA174-ND	6.18	5.23	4.28	—	—	LBB110
	DPST-NC/NC	350	120	5	3/3	8-SMD	CLA242CT-ND‡	6.18	5.23	4.28	1,000	2660.00	LBB110STR
	DPST-NC/NC	250	170	5	5/5	8-Dip	CLA175-ND	7.18	6.08	4.98	—	—	LBB126
	DPST-NC/NC	250	170	5	5/5	8-SMD	CLA243CT-ND‡	7.22	6.11	5.00	1,000	3108.00	LBB126STR
	DPST-NC/NC	250	200	5	5/5	8-Dip	CLA176-ND	8.97	7.59	6.21	—	—	LBB127
	DPST-NC/NC	250	200	5	5/5	8-SMD	CLA244CT-ND‡	8.97	7.59	6.21	1,000	3864.00	LBB127STR
	DPST-NO/NO	400	150	5	1/0.25	8-Dip	CLA187-ND	8.00	6.77	5.54	—	—	PAA110
	DPST-NO/NO	400	150	5	1/0.25	8-SMD	CLA259CT-ND‡	8.03	6.80	5.56	1,000	3458.00	PAA110STR
	DPST-NO/NO	400	250	5	1.5/0.25	8-Dip	CLA188-ND	8.78	7.43	6.08	—	—	PAA140
	DPST-NO/NO	400	250	5	1.5/0.25	8-SMD	CLA260CT-ND‡	8.81	7.46	6.10	1,000	3794.00	PAA140STR
	DPST-NO/NO	250	250	5	2.5/0.5	8-Dip	CLA189-ND	9.43	7.98	6.53	—	—	PAA150
	DPST-NO/NO	250	250	5	2.5/0.5	8-SMD	CLA227CT-ND‡	8.94	7.57	6.19	1,000	4125.00	PAA150STR
	DPST-NO/NC	250	250	5	2.5/2.5	8-Dip	CLA190-ND	9.98	8.45	6.91	—	—	PBA150
	DPST-NO/NC	250	250	5	2.5/2.5	8-SMD	CLA261CT-ND‡	10.04	8.50	6.96	1,000	4326.00	PBA150STR
	DPST-NC/NC	250	250	5	2.5/2.5	8-Dip	CLA191-ND	9.98	8.45	6.91	—	—	PBB150
	DPST-NC/NC	250	250	5	2.5/2.5	8-SMD	CLA262CT-ND‡	10.04	8.50	6.96	1,000	4326.00	PBB150STR
	DPST-NO/NO	350	100	5	5/5	8-Dip	CLA198-ND	4.94	4.18	3.42	—	—	XAA170
	DPST-NO/NO	350	100	5	5/5	8-SMD	CLA265CT-ND‡	4.94	4.18	3.42	1,000	2128.00	XAA170STR
	DPST-NO/NC	350	100	5	5/5	8-Dip	CLA199-ND	5.36	4.54	3.72	—	—	XBA170
	DPST-NO/NC	350	100	5	5/5	8-SMD	CLA266CT-ND‡	5.36	4.54	3.72	1,000	2310.00	XBA170STR
5	SPDT-NC/NO	350	120	8	4/4	8-Dip	CLA106-ND	5.14	4.35	3.56	—	—	LCC110
	SPDT-NC/NO	350	120	8	4/4	8-SMD	CLA253CT-ND‡	5.20	4.40	3.60	1,000	2240.00	LCC110STR
	SPDT-NO/NC	250	170	10	5/5	8-Dip	CLA184-ND	6.57	5.56	4.55	—	—	LCC120
	SPDT-NO/NC	250	170	10	5/5	8-SMD	CLA254CT-ND‡	6.63	5.61	4.59	1,000	2856.00	LCC120STR
6	SPST-NO	60	600	5-12	5/5	4-SIP	CLA274-ND	2.15	1.82	1.49	—	—	CPC1218Y

§ Input Voltage - 1.2V Typical, 1.4V Maximum † For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape

Fig. 1

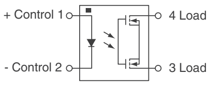

Fig. 2

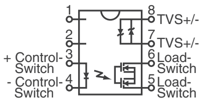

Fig. 3

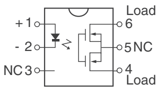

Fig. 4

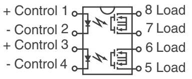

Fig. 5

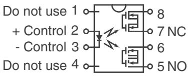

Fig. 6

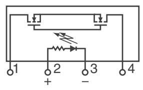

Optocouplers

Fig. 1

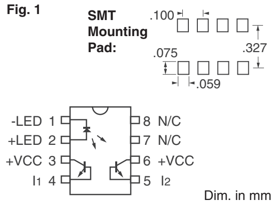

Fig. 2

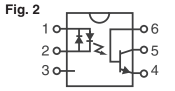

Fig. 3

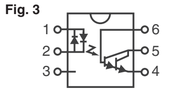

Fig. 4

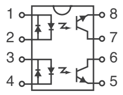

Fig. 5

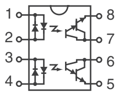

Fig. 6

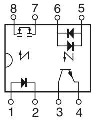

Fig. 7

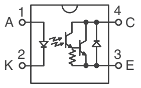

Fig. 8

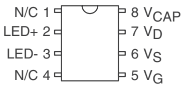

Fig.	Circuit	Pkg.	Vf	If (mA)	Isolation (Vrms)	Current Transfer Ratio	Digi-Key Part No.	Price Each			Tape & Reel† Pricing	Clare Part No.
								1	25	50	1,000	
1	Dual Trans.	8-Dip	1.2	2	3,750	—	CLA113-ND	2.44	2.07	1.69	—	LOC110
		8-SMD	1.2	2	3,750	—	CLA114CT-ND‡	2.44	2.07	1.69	975.00	LOC110STR
		8-Dip	1.2	2	3,750	—	CLA116-ND	2.86	2.42	1.98	—	LOC111
		Flatpack	1.2	2	3,750	—	CLA118CT-ND‡	2.86	2.42	1.98	1144.00	LOC111PTR
2	Single Trans.	6-Dip	1.2	6	3,750	100%	CLA185-ND	.91	.77	.63	—	LDA100
		6-SMD	1.2	6	3,750	100%	CLA255CT-ND‡	.94	.80	.66	406.00	LDA100STR
3	Single Trans.	6-Dip	1.2	2	3,750	1,000%	CLA111-ND	.94	.80	.66	—	LDA110
		6-SMD	1.2	2	3,750	1,000%	CLA256CT-ND‡	.98	.83	.68	420.00	LDA110STR
4	Dual Trans.	8-Dip	1.2	6	3,750	100%	CLA112-ND	1.82	1.54	1.26	—	LDA200
		8-SMD	1.2	6	3,750	100%	CLA257CT-ND‡	1.85	1.57	1.29	798.00	LDA200STR
5	Dual Trans.	8-Dip	1.2	6	3,750	1,000%	CLA186-ND	1.92	1.63	1.33	—	LDA210
		8-SMD	1.2	6	3,750	1,000%	CLA258CT-ND‡	1.92	1.63	1.33	826.00	LDA210STR
6	Telecom	8-Dip	1.2	2	3,750	—	CLA108-ND	3.41	2.89	2.37	—	TS117
		8-SMD	1.2	2	3,750	—	CLA110CT-ND‡	3.45	2.92	2.39	1272.00	TS117STR
7	Single Darlington	4-Dip	1.2	1	5,000	1,000%	CLA293-ND	.88	.75	.61	—	CPC1301G
		4-SMD	1.2	1	5,000	1,000%	CLA294CT-ND‡	.88	.75	.61	351.00	CPC1301GRTR
	Dual Darlington	8-Dip	1.2	1	3,750	1,000%	CLA295-ND	1.40	1.19	.97	—	CPC1302G
		8-SMD	1.2	1	3,750	1,000%	CLA296CT-ND‡	1.40	1.19	.97	559.00	CPC1302GSTR
8	Gate Driver	8-Flatpack	1.27	2.5	3,750	—	CLA297CT-ND‡	1.79	1.52	1.24	770.00	CPC1580TR

† For Tape and Reel Part Number, change CT-ND to TR-ND. ‡ Cut Tape

Solid State Power Relays and Switches

Fig. 1

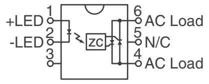

Fig. 2

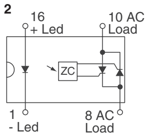

Fig. 3

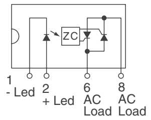

Fig. 4

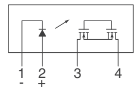

Fig. 5

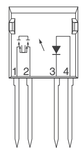

Fig.	Circuit	Pkg.	Blocking Voltage	Load Current (Arms)	Input Current (mA)	Isolation (Vrms)	Digi-Key Part No.	Price Each			Clare Part No.
								1	25	50	
1	SCR Output	6-Dip	800	250mA	5	3,750	CLA224-ND	1.89	1.60	1.31	CPC1972G
		6-SMD	800	250mA	5	3,750	CLA273CT-ND‡	1.89	1.60	1.31	CPC1972GSTR
		6-SMD	800	250mA	5	3,750	CLA273TR-ND§		870.00/1,000		CPC1972GSTR
2	SCR Output	16-Dip	400	1A	5	3,750	CLA162-ND	3.74	3.17	2.59	CPC1945G
		16-Dip	600	1A	5	3,750	CLA157-ND	3.93	3.33	2.73	CPC1965G
		8-SIP	600	2A	5	3,750	CLA283-ND	5.95	5.04	4.12	CPC1976Y
3	SCR Output	8-SIP	400	1A	5	3,750	CLA163-ND	3.74	3.17	2.59	CPC1945Y
		8-SIP	600	1A	5	3,750	CLA158-ND	3.93	3.33	2.73	CPC1965Y
		8-SIP	400	1A	5	3,750	CLA195-ND	6.57	5.56	4.55	PS1201
		8-SIP	500	1A	5	3,750	CLA196-ND	6.66	5.64	4.62	PS2401
		8-SIP	600	1A	5	3,750	CLA197-ND	8.26	6.99	5.72	PS2601
4	MOSFET	4-SIP	60	2A	10	2,500	CLA207-ND	9.39	7.95	6.51	CPC1906Y
		4-SIP	100	2.5A	10	2,500	CLA209-ND	8.13	6.88	5.63	CPC1916Y
		4-SIP	250	700mA	10	2,500	CLA210-ND	7.67	6.49	5.31	CPC1926Y
		4-SIP	400	350mA	10	2,500	CLA211-ND	7.18	6.08	4.98	CPC1973Y
		4-SIP	1,000	180mA	10	2,500	CLA203-ND	9.98	8.45	6.91	CPC1981Y
	MOSFET	i4-PAC	60	4A	10	2,500	CLA279-ND	8.32	7.04	5.76	CPC1708J
		ISOPLUS-264	60	9A	10	2,500	CLA280-ND	8.32	7.04	5.76	CPC1709J
		i4-PAC	1,000	650mA	10	2,500	CLA278-ND	11.25	9.52	7.79	CPC1786J
		ISOPLUS-264	60	6.5	10	2,500	CLA281-ND	12.64	10.70	8.76	CPC1909J
		ISOPLUS-264	100	5.25	10	2,500	CLA288-ND	12.64	10.70	8.76	CPC1918J
	MOSFET	i4-PAC	400	1.35	10	2,500	CLA282-ND	13.29	11.25	9.21	CPC1967J
		ISOPLUS-264	600	1.4A	10	2,500	CLA284-ND	14.66	12.41	10.15	CPC1979J
		i4-PAC	1,000	700mA	10	2,500	CLA285-ND	14.46	12.24	10.02	CPC1986J
		ISOPLUS-264	1,000	900mA	10	2,500	CLA286-ND	14.63	12.38	10.13	CPC1988J
5	MOSFET	i4-PAC	60	3.5A	10	2,500	CLA208-ND	12.38	10.48	8.58	CPC1908J
		i4-PAC	600	1.25A	10	2,500	CLA212-ND	14.50	12.27	10.04	CPC1977J
		i4-PAC	800	750mA	10	2,500	CLA213-ND	10.89	9.22	7.54	CPC1978J

‡ Cut Tape § Tape and Reel

LITELINK™ III Phone Line Interface

IC Phone Line Monitor

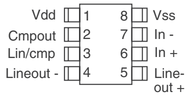

Description	Digi-Key Part No.	Price Each			Clare Part No.
		1	25	50	
IC Phone Line Monitor, 8-SOIC	CLA169-ND	1.46	1.24	1.02	CPC5710N
IC Phone Line Monitor, 8-SOIC	CLA301CT-ND‡ CLA301TR-ND§	1.46	1.24 1260.00/2,000	1.02	CPC5710NTR
Half-wave Ring Detection, 32-Pin PLI	CLA166-ND	5.53	4.68	3.83	CPC5620A
Full-wave Ring Detection, 32-Pin PLI	CLA167-ND	5.53	4.68	3.83	CPC5621A
LITELINK III Ring Half-wave, Phone Line Interface, 32-SOIC	CLA300CT-ND‡ CLA300TR-ND§	5.53	4.68 2380.00/1,000	3.83	CPC5620ATR
Phone Line Monitor with Detectors (PLMD), 16-QSOP	CLA303CT-ND‡ ***NEW!*** CLA303TR-ND§ ***NEW!***	1.46	1.24 630.00/1,000	1.02	CPC5712UTR
VoIP/Voice Designs with Full Time CID and RING	CLA215-ND	5.53	4.68	3.83	CPC5622A
N-Channel Depletion Mode FET, 350V, SOT-223	CLA298CT-ND‡ CLA298TR-ND§	.75	.64 322.00/1,000	.52	CPC5602CTR
N-Channel Depletion Mode FET, 415V, SOT-223	CLA299CT-ND‡ CLA299TR-ND§	.81	.69 350.00/1,000	.57	CPC5603CTR
SHDSL/ISDN DC Termination, 16-SOIC	CLA206-ND	9.72	8.23	6.73	CPC1465D
SHDSL/ISDN DC Termination, 16-MLP	CLA271CT-ND‡ CLA271TR-ND§	9.88	8.36 9120.00/2,000	6.84	CPC1465MTR
LITELINK III Evaluation Board Reactive	CLA165-ND	191.73	—	—	CPC5621EVAL-CDL
LITELINK III Evaluation Board Resistive	CLA164-ND	191.73	—	—	CPC5621EVAL-RDL

‡ Cut Tape § Tape and Reel

Photovoltaic Solar Cells

Applications:

• Portable Electronics • Solar Battery Chargers • Battery Operated Equipment • Consumer Electronics • Off Grid Installation • Wireless Sensors and Detection • Self Powered Sunlight/Light detector • Self Powered Products • Remote Installation

Fig. 1

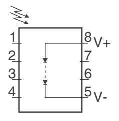

Fig. 2

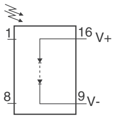

Fig.	Open Circuit Voltage	Short Circuit Current (μA)	Description	Pkg.	Digi-Key Part No.	Price Each			Clare Part No.
						1	25	50	
1	4	50	Clear Molded	8-SOIC	CLA289-ND	1.30	1.10	.90	CPC1822N
	8	25			CLA291-ND	1.43	1.21	.99	CPC1831N
2	4	100	Clear Molded	16-SOIC	CLA290-ND	1.50	1.27	1.04	CPC1824N
	8	50			CLA292-ND	1.63	1.38	1.13	CPC1832N

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic
Panasonic Electric Works

PhotoMOS Relays

Features:
- PhotoMOS relays combine the advantages of standard electromechanical relays with that of solid state products
- Very fast response times with very low leakage and exceedingly long life times
- Reliability and lower input currents are also improved over conventional relays

Dim. in mm

Fig. 1

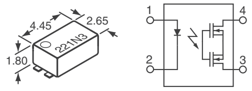

Fig. 2

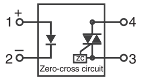

Fig. 3

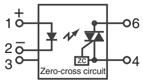

Fig. 4

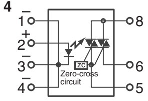

Fig. 5

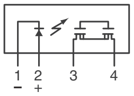

Fig. 6

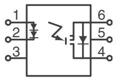

Fig. 7

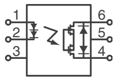

Fig. 8

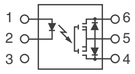

Fig. 9

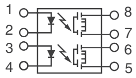

Fig. 10

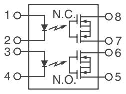

Fig. 11

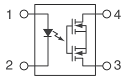

Fig. 12

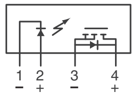

Package (Board Layout)

Dim. in mm

4-DIP

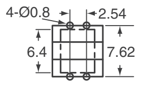

4-DIP Wide

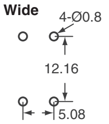

4-SMD

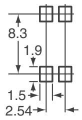

4-SMT

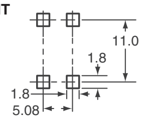

4-SIP

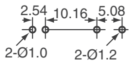

4-SOP

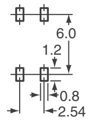

4-SSOP

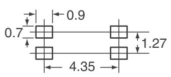

6-DIP

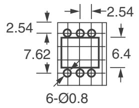

6-SMD

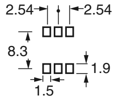

6-SOP

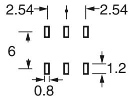

8-DIP

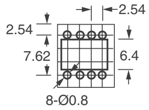

8-SMD

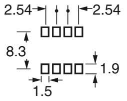

8-SOP

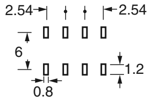

Fig.	Contact Arrangement	Load Current (max.) mA	Load Voltage (max.) V	Isolation Voltage	On Resistance (Ω) (min./max.)	Features	Package	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
						AQY Ultra Mini PhotoMOS Relays							
1	SPST-NO	500	60	1,500	0.83/2.5	Economy Version	4-SOP	255-1981-ND	5.19	4.77	4.24	3.61	AQY212S
		120	40	1,500	9.8/12.5	Low CXR	4-SOP	255-2147-2-ND†		3553.00/1,000			AQY221N1SZ
		120	40	1,500	9.5/12.5	—	4-SOP	255-1793-5-ND	6.69	6.15	5.46	4.65	AQY221N2S
		120	40	1,500	9.5/12.5	Low CXR	4-SOP	255-2148-2-ND†		3857.00/1,000			AQY221N2SX
		120	40	1,500	9.5/12.5	Low CXR	4-SOP	255-2149-2-ND†		3857.00/1,000			AQY221N2SZ
		120	40	1,500	9.5/12.5	—	4-SSOP	255-1794-5-ND	6.84	6.28	5.58	4.75	AQY221N2V
		120	40	1,500	9.5/12.5	Low CXR	4-SOP	255-1794-2-ND†		14161.00/3,500			AQY221N2VY
		150	25	1,500	5.5/7.5	—	4-SSOP	255-1982-ND	6.79	6.24	5.54	4.71	AQY221N3V
		150	25	1,500	5.5/7.5	—	4-SOP	255-1982-2-ND†		14059.50/3,500			AQY221N3VY
		250	40	500	0.8/1.25	—	4-SOP	255-2150-5-ND	6.52	5.99	5.32	4.53	AQY221R2S
		250	40	500	0.8/1.25	—	4-SOP	255-2151-2-ND†		3857.00/1,000			AQY221R2SX
						APT Series Phototriacs Couplers							
2	SPST-NO	100	600	5,000	—	Zero-Cross	4-DIP	255-1516-5-ND	1.13	1.04	.92	.79	APT1211
		100	600	5,000	—	Zero-Cross	4-SMD	255-1517-5-ND	1.13	1.04	.92	.79	APT1211A
		50	600	3,750	—	Zero-Cross	4-SOP	255-1518-5-ND	1.47	1.35	1.20	1.02	APT1211S
3	SPST-NO	100	600	5,000	—	Zero-Cross	6-DIP	255-1519-5-ND	1.23	1.13	1.00	.85	APT1212
		100	600	5,000	—	Zero-Cross	6-SMD	255-1520-5-ND	1.23	1.13	1.00	.85	APT1212A
2	SPST-NO	100	600	5,000	—	Non Zero-Cross	4-DIP	255-1521-5-ND	1.08	.99	.88	.75	APT1221
		100	600	5,000	—	Non Zero-Cross	4-SMD	255-1522-5-ND	1.08	.99	.88	.75	APT1221A
		50	600	3,750	—	Non Zero-Cross	4-SOP	255-1523-5-ND	1.27	1.17	1.04	.89	APT1221S
3	SPST-NO	100	600	5,000	—	Non Zero-Cross	6-DIP	255-1524-5-ND	1.30	1.20	1.06	.91	APT1222
		100	600	5,000	—	Non Zero-Cross	6-SMD	255-1525-5-ND	1.30	1.20	1.06	.91	APT1222A
						AQH Series Solid State Relays							
4	SPST-NO	600	600	5,000	—	Zero-Cross	8-DIP	255-1526-5-ND	1.64	1.51	1.34	1.14	AQH1213
		600	600	5,000	—	Zero-Cross	8-SMD	255-1527-5-ND	1.64	1.51	1.34	1.14	AQH1213A
		600	600	5,000	—	Zero-Cross	8-SMD	255-1527-2-ND		972.00/1,000			AQH1213AX
		600	600	5,000	—	Non Zero-Cross	8-DIP	255-1528-5-ND	1.76	1.62	1.44	1.23	AQH1223
		600	600	5,000	—	Non Zero-Cross	8-SMD	255-1529-5-ND	1.76	1.62	1.44	1.23	AQH1223A
		900	600	5,000	—	Zero-Cross	8-DIP	255-1530-5-ND	1.72	1.58	1.40	1.19	AQH2213
		900	600	5,000	—	Zero-Cross	8-SMD	255-1531-5-ND	1.72	1.58	1.40	1.19	AQH2213A
		900	600	5,000	—	Non Zero-Cross	8-DIP	255-1532-5-ND	1.89	1.74	1.54	1.31	AQH2223
		900	600	5,000	—	Non Zero-Cross	8-SMD	255-1533-5-ND	1.89	1.74	1.54	1.31	AQH2223A
						AQG Series Solid State Relays							
5	SPST-NO	2000	264	1,500	—	Zero-Cross	4-SIP	255-2102-5-ND	6.35	5.83	5.18	4.41	AQG22105
						AQV Series PhotoMOS Relays							
6	SPST-NO	700	40	1,500	0.3/0.5	—	6-DIP	255-1546-5-ND	5.98	5.49	4.88	4.15	AQV101
		700	40	1,500	0.3/0.5	—	6-SMD	255-2105-5-ND	5.98	5.49	4.88	4.15	AQV101A
		700	40	1,500	0.3/0.5	—	6-SMD	255-2105-2-ND†		3538.00/1,000			AQV101AZ
		600	60	1,500	0.37/0.7	—	6-DIP	255-1946-ND	5.98	5.49	4.88	4.15	AQV102
		600	60	1,500	0.37/0.7	—	6-SMD	255-1947-ND	5.98	5.49	4.88	4.15	AQV102A
7	SPST-NO	500	40	1,500	0.6/1.0	—	6-DIP	255-1948-ND	6.74	6.19	5.50	4.68	AQV201
		500	40	1,500	0.6/1.0	—	6-SMD	255-1547-5-ND	6.74	6.19	5.50	4.68	AQV201A
		500	40	1,500	0.6/1.0	—	6-SMD	255-1547-2-ND†		3988.00/1,000			AQV201AZ
		400	60	1,500	0.74/1.4	—	6-DIP	255-1548-5-ND	6.74	6.19	5.50	4.68	AQV202
		400	60	1,500	0.74/1.4	—	6-SMD	255-2106-5-ND	6.74	6.19	5.50	4.68	AQV202A
		200	250	1,500	5.5/8.0	—	6-SMD	255-1949-ND	6.74	6.19	5.50	4.68	AQV203A
		150	400	1,500	12.4/16.0	—	6-DIP	255-2107-5-ND	6.74	6.19	5.50	4.68	AQV204
8	SPST-NO	130	350	1,500	23/35	Standard Version	6-DIP	255-1950-ND	4.09	3.76	3.34	2.84	AQV210
		130	350	1,500	23/35	Economy Version	6-DIP	255-1143-5-ND	2.57	2.37	2.10	1.79	AQV210E
		130	350	1,500	23/35	Economy Version	6-SMD	255-1144-5-ND	2.60	2.39	2.12	1.81	AQV210EA
		130	350	1,500	23/35	Economy Version	6-SMD	255-1144-2-ND†		1537.00/1,000			AQV210EAX
		130	350	5,000	23/35	Economy Version	6-DIP	255-1145-5-ND	2.77	2.55	2.26	1.93	AQV210EH
		130	350	5,000	23/35	Economy Version	6-SMD	255-1146-5-ND	2.84	2.61	2.32	1.98	AQV210EHA
		130	350	5,000	23/35	Economy Version	6-SMD	255-1146-2-ND†		1682.00/1,000			AQV210EHAX
		130	350	5,000	20/25	with Current Limit	6-DIP	255-1418-5-ND	5.59	5.13	4.56	3.88	AQV210HL

† Tape and Reel

(Continued)

Fig.	Contact Arrangement	Load Current (max.) mA	Load Voltage (max.) V	Isolation Voltage	On Resistance (Ω) (min./max.)	Features	Package	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
8	SPST-NO	130	350	5,000	20/25	with Current Limit	6-SMD	255-1419-5-ND	5.32	4.89	4.34	3.69	AQV210HLA
		120	350	1,500	23/35	—	6-SOP	255-1147-5-ND	4.34	3.99	3.54	3.01	AQV210S
		120	350	1,500	23/35	—	6-SOP	255-1147-2-ND†		2567.00/1,000			AQV210SX
		550	60	1,500	0.83/2.5	—	6-DIP	255-1148-5-ND	4.09	3.76	3.34	2.84	AQV212
		550	60	1,500	0.83/2.5	—	6-SMD	255-1149-5-ND	4.09	3.76	3.34	2.84	AQV212A
		550	60	1,500	0.83/2.5	—	6-SMD	255-2108-2-ND†		2422.00/1,000			AQV212AX
		550	60	1,500	0.83/2.5	—	6-SMD	255-2109-2-ND†		2422.00/1,000			AQV212AZ
		500	60	1,500	0.83/2.5	—	6-SOP	255-1150-5-ND	4.34	3.99	3.54	3.01	AQV212S
		500	60	1,500	0.83/2.5	—	6-SOP	255-2110-2-ND†		2567.00/1,000			AQV212SX
		500	60	1,500	0.83/2.5	—	6-SOP	255-2111-2-ND†		2567.00/1,000			AQV212SZ
		120	400	1,500	30/50	—	6-DIP	255-1151-5-ND	4.09	3.76	3.34	2.84	AQV214
		120	400	1,500	30/50	—	6-SMD	255-1155-5-ND	4.09	3.76	3.34	2.84	AQV214A
		120	400	5,000	30/50	High Isolator	6-DIP	255-1152-5-ND	4.39	4.03	3.58	3.05	AQV214H
		120	400	5,000	30/50	High-Isolator	6-SMD	255-1951-ND	4.39	4.03	3.58	3.05	AQV214HA
		120	400	1,500	30/50	Economy Version	6-DIP	255-1153-5-ND	2.57	2.37	2.10	1.79	AQV214E
		120	400	1,500	30/50	Economy Version	6-SMD	255-1420-5-ND	2.60	2.39	2.12	1.81	AQV214EA
		120	400	5,000	30/50	Economy Version	6-DIP	255-1154-5-ND	2.77	2.55	2.26	1.93	AQV214EH
		120	400	5,000	30/50	Economy Version	6-SMD	255-1421-5-ND	2.84	2.61	2.32	1.98	AQV214EHA
		100	400	1,500	30/50	—	6-SOP	255-1156-5-ND	4.34	3.99	3.54	3.01	AQV214S
		100	400	1,500	30/50	—	6-SOP	255-2112-2-ND†		2567.00/1,000			AQV214SX
		100	400	1,500	30/50	—	6-SOP	255-2113-2-ND†		2567.00/1,000			AQV214SZ
		320	100	1,500	2.3/4.0	—	6-SMD	255-2114-5-ND	4.26	3.92	3.48	2.96	AQV215A
		300	100	1,500	2.3/4.0	—	6-SOP	255-2115-5-ND	4.34	3.99	3.54	3.01	AQV215S
		300	100	1,500	2.3/4.0	—	6-SOP	255-2116-2-ND†		2567.00/1,000			AQV215SX
		300	100	1,500	2.3/4.0	—	6-SOP	255-2117-2-ND†		2567.00/1,000			AQV215SZ
		40	600	1,500	70/120	—	6-SOP	255-2118-5-ND	4.34	3.99	3.54	3.01	AQV216S
		180	200	1,500	11/15	—	6-SMD	255-2119-2-ND†		2523.00/1,000			AQV217AX
		160	200	1,500	11/15	—	6-SOP	255-1467-5-ND	4.34	3.99	3.54	3.01	AQV217S
		160	200	1,500	11/15	—	6-SOP	255-1467-2-ND†		2567.00/1,000			AQV217SZ
		80	40	1,500	22/35	—	6-SMD	255-1164-2-ND†		2726.00/1,000			AQV221AZ
		40	400	1,500	70/100	—	6-SOP	255-2120-2-ND†		2973.00/1,000			AQV224NSZ
		50	80	1,500	36/50	—	6-DIP	255-2121-5-ND	4.61	4.23	3.76	3.20	AQV225
		150	80	1,500	30/50	Low Leakage	6-DIP	255-1952-ND	4.75	4.37	3.88	3.30	AQV225N
		120	80	1,500	7/10	Low Leakage	6-SOP	255-2122-2-ND†		2799.00/1,000			AQV225NSX
		120	80	1,500	7/10	Low Leakage	6-SOP	255-2123-2-ND†		2799.00/1,000			AQV225NSZ
		70	200	1,500	30/50	Low Leakage	6-SMD	255-1953-ND	5.05	4.64	4.12	3.51	AQV227NA
		120	400	1,500	30/50	—	6-DIP	255-1551-5-ND	5.32	4.89	4.34	3.69	AQV234
		120	400	1,500	30/50	—	6-SMD	255-2124-5-ND	5.32	4.89	4.34	3.69	AQV234A
		500	40	1,500	0.6/1.0	—	6-DIP	255-1352-5-ND	5.19	4.77	4.24	3.61	AQV251
		500	40	1,500	0.6/1.0	Economy Version	6-SMD	255-1552-5-ND	5.19	4.77	4.24	3.61	AQV251A
		500	40	1,500	0.6/1.0	Economy Version	6-SMD	255-1552-2-ND†		3074.00/1,000			AQV251AX
		400	60	1,500	0.74/1.4	—	6-DIP	255-1353-5-ND	5.19	4.77	4.24	3.61	AQV252
		400	60	1,500	0.74/1.4	Economy Version	6-SMD	255-1553-5-ND	5.19	4.77	4.24	3.61	AQV252A
		2,500	60	1,500	0.08/0.12	Power Type	6-DIP	255-1791-5-ND	5.19	4.77	4.24	3.61	AQV252G
		2,500	60	1,500	1.1/5.0	Power Type	6-SMD	255-1954-ND	5.19	4.77	4.24	3.61	AQV252GA
		200	250	1,500	5.5/8.0	Economy Version	6-DIP	255-1554-5-ND	5.19	4.77	4.24	3.61	AQV253
		150	400	1,500	12.4/16	Economy Version	6-DIP	255-1555-5-ND	5.19	4.77	4.24	3.61	AQV254
		150	400	1,500	12.4/16	Economy Version	6-SMD	255-1556-5-ND	5.19	4.77	4.24	3.61	AQV254A
		150	400	5,000	12.4/16	Economy Version	6-DIP	255-1557-5-ND	5.51	5.07	4.50	3.83	AQV254H
		150	400	5,000	12.4/16	Economy Version	6-SMD	255-2125-2-ND†		3263.00/1,000			AQV254HAZ
		350	100	1,500	12.4/16	Economy Version	6-DIP	255-1956-ND	5.19	4.77	4.24	3.61	AQV255
		250	200	1,500	2.6/4.0	—	6-DIP	255-1354-5-ND	5.19	4.77	4.24	3.61	AQV257
		250	200	1,500	2.6/4.0	—	6-DIP	255-1957-ND	5.19	4.77	4.24	3.61	AQV257A
		250	200	1,500	2.6/4.0	Economy Version	6-SMD	255-1957-2-ND†		3074.00/1,000			AQV257AX
		20	1,500	1,500	345/500	Economy Version	6-DIP	255-1468-5-ND	5.86	5.38	4.78	4.07	AQV258
		20	1,500	1,500	345/500	Economy Version	6-SMD	255-1558-5-ND	5.86	5.38	4.78	4.07	AQV258A
		20	1,500	1,500	345/500	Economy Version	6-SMD	255-1558-2-ND†		3466.00/1,000			AQV258AZ
		20	1,500	5,000	345/500	Economy Version	6-SMD	255-2126-2-ND†		3625.00/1,000			AQV258HAX
		30	1,000	1,500	85/200	Economy Version	6-DIP	255-1960-ND	6.08	5.58	4.96	4.22	AQV259
		30	1,000	1,500	85/200	Economy Version	6-SMD	255-2127-5-ND	6.08	5.58	4.96	4.22	AQV259A
		30	1,000	5,000	85/200	Economy Version	6-SMD	255-1961-ND	6.13	5.63	5.00	4.25	AQV259HA
	SPST-NC	130	350	5,000	18/35	Economy Version	6-DIP	255-1422-5-ND	4.39	4.03	3.58	3.05	AQV410EH
		130	350	5,000	18/35	Economy Version	6-SMD	255-1423-5-ND	4.39	4.03	3.58	3.05	AQV410EHA
		130	350	5,000	18/35	Economy Version	6-SMD	255-1423-2-ND†		2596.00/1,000			AQV410EHAX
		120	400	1,500	26/50	—	6-DIP	255-1157-5-ND	4.56	4.19	3.72	3.17	AQV414
		120	400	1,500	26/50	—	6-SMD	255-1559-5-ND	4.56	4.19	3.72	3.17	AQV414A
		120	400	1,500	26/50	Economy Version	6-DIP	255-1469-5-ND	4.09	3.76	3.34	2.84	AQV414E
		120	400	1,500	26/50	Economy Version	6-SMD	255-1470-5-ND	4.09	3.76	3.34	2.84	AQV414EA
		120	400	5,000	26/50	Economy Version	6-DIP	255-1348-5-ND	4.39	4.03	3.58	3.05	AQV414EH
		120	400	5,000	25.2/50	Economy Version	6-SMD	255-1424-5-ND	4.39	4.03	3.58	3.05	AQV414EHA
		100	400	1,500	25.2/50	Economy Version	6-SOP	255-1962-ND	4.85	4.46	3.96	3.37	AQV414S
		100	400	1,500	26/50	Economy Version	6-SOP	255-1962-2-ND†		2871.00/1,000			AQV414SZ
		200	250	1,500	5.5/8	Economy Version	6-DIP	255-1963-ND	5.54	5.09	4.52	3.85	AQV453
		200	250	1,500	5.5/8	Economy Version	6-SMD	255-2128-5-ND	7.01	6.44	5.72	4.87	AQV453A
AQV Series Radio Frequency PhotoMOS Relays													
8	SPST-NO	80	40	1,500	22/35	—	6-DIP	255-1163-5-ND	4.61	4.23	3.76	3.20	AQV221
		80	40	1,500	22/35	—	6-SMD	255-1164-5-ND	4.61	4.23	3.76	3.20	AQV221A
		120	80	1,500	7/10	—	6-SOP	255-1549-5-ND	4.73	4.35	3.86	3.29	AQV225NS
		50	200	1,500	30/50	—	6-SOP	255-1550-5-ND	5.02	4.62	4.10	3.49	AQV227NS
AQW Series PhotoMOS Relays													
9	DPST-NO	120	350	1,500	23/35	Standard Version	8-DIP	255-2129-5-ND	6.86	6.30	5.60	4.76	AQW210
		120	350	1,500	23/35	Standard Version	8-SMD	255-2130-5-ND	6.86	6.30	5.60	4.76	AQW210A
		120	350	1,500	23/35	Standard Version	8-SMD	255-2130-2-ND†		4060.00/1,000			AQW210AZ
		120	350	5,000	18/25	Economy Version	8-DIP	255-1349-5-ND	5.61	5.16	4.58	3.90	AQW210EH
		120	350	5,000	18/25	Economy Version	8-SMD	255-1425-5-ND	5.61	5.16	4.58	3.90	AQW210EHA
		120	350	5,000	20/25	Current Limited	8-SMD	255-2131-5-ND	10.51	9.66	8.58	7.30	AQW210HLA
		100	350	5,000	18/25	Economy Version	8-SOP	255-1964-ND	7.33	6.73	5.98	5.09	AQW210S
		100	350	1,500	16/35	—	8-SOP	255-1964-2-ND†		4336.00/1,000			AQW210SX
		500	60	1,500	0.83/2.5	Economy Version	8-DIP	255-1965-ND	6.86	6.30	5.60	4.76	AQW212
		500	60	1,500	0.83/2.5	—	8-SMD	255-1560-5-ND	6.86	6.30	5.60	4.76	AQW212A
		500	60	1,500	0.83/2.5	—	8-SMD	255-2132-5-ND	6.64	6.10	6.10	4.61	AQW213EHA
		100	400	1,500	30/50	—	8-DIP	255-1158-5-ND	6.86	6.30	5.60	4.76	AQW214
		80	400	1,500	30/50	Standard Version	8-SMD	255-1160-5-ND	7.33	6.73	5.98	5.09	AQW214S
		80	400	1,500	30/50	Standard Version	8-SOP	255-2134-2-ND†		4336.00/1,000			AQW214SX
		80	400	1,500	30/50	Standard Version	8-SOP	255-2135-2-ND†		4336.00/1,000			AQW214SZ

† Tape and Reel

(Continued)

Fig.	Contact Arrangement	Load Current (max.) mA	Load Voltage (max.) V	Isolation Voltage	On Resistance (Ω) (min./max.)	Features	Package	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
AQW Series General Purpose PhotoMOS Relays													
9	DPST-NO	100	400	1,500	30/50	Standard Version	8-SMD	255-1159-5-ND	6.86	6.30	5.60	4.76	AQW214A
		100	400	1,500	30/50	Standard Version	8-SMD	255-1159-2-ND†		4060.00/500			AQW214AZ
		100	400	1,500	30/50	Economy Version	8-DIP	255-1426-5-ND	5.61	5.16	4.58	3.90	AQW214E
		100	400	1,500	30/50	Economy Version	8-SMD	255-1427-5-ND	5.66	5.20	4.62	3.93	AQW214EA
		100	400	1,500	30/50	Economy Version	8-SMD	255-1427-2-ND†		3350.00/1,000			AQW214EAX
		100	400	5,000	25/35	Economy Version	8-DIP	255-1966-ND	5.95	5.47	4.86	4.14	AQW214EH
		100	400	5,000	25/35	Economy Version	8-SMD	255-2133-2-ND†		3524.00/1,000			AQW214EHAX
		300	100	1,500	2.3/4.0	Standard Version	8-DIP	255-1967-ND	6.86	6.30	5.60	4.76	AQW215
		300	100	1,500	2.3/4.0	Standard Version	8-SOP	255-1968-ND	6.86	6.30	5.60	4.76	AQW215A
		40	600	1,500	70/120	Standard Version	8-DIP	255-1561-5-ND	6.86	6.30	5.60	4.76	AQW216
		40	600	1,500	70/120	Standard Version	8-SMD	255-1969-ND	6.86	6.30	5.60	4.76	AQW216A
		160	200	1,500	70/120	Standard Version	8-DIP	255-1970-ND	6.86	6.30	5.60	4.76	AQW217
		160	200	1,500	70/120	Standard Version	8-SMD	255-1971-ND	6.86	6.30	5.60	4.76	AQW217A
10	DPST-NO	120	400	1,500	10/16	High Sensitivity	8-DIP	255-1975-ND	8.70	7.99	7.10	6.04	AQW254
		120	400	1,500	10/16	High Sensitivity	8-SMD	255-1976-ND	8.70	7.99	7.10	6.04	AQW254A
		120	400	1,500	10.2/16	High Sensitivity	8-SMD	255-2138-2-ND†		5148.00/1,000			AQW254AZ
9	DPST-NC	100	400	1,500	26/50	Standard Version	8-DIP	255-1161-5-ND	8.58	7.88	7.00	5.95	AQW414
		100	400	1,500	26/50	Standard Version	8-SMD	255-1162-5-ND	8.58	7.88	7.00	5.95	AQW414A
		100	400	5,000	26/35	Economy Version	8-DIP	255-1350-5-ND	7.40	6.80	6.04	5.14	AQW414EH
		100	400	5,000	26/35	Economy Version	8-SMD	255-1428-5-ND	7.40	6.80	6.04	5.14	AQW414EHA
10	DPDT-NO/NC	120	350	5,000	18/25	Economy Version	8-DIP	255-1471-5-ND	6.10	5.61	4.98	4.24	AQW610EH
		120	350	5,000	18/25	Economy Version	8-SMD	255-1472-5-ND	6.10	5.61	4.98	4.24	AQW610EHA
		100	350	1,500	18/25	Standard Version	8-SMD	255-1978-ND	9.14	8.40	7.46	6.35	AQW610S
		500	60	5,000	1.0/2.5	Economy Version	8-DIP	255-1979-ND	8.16	7.50	6.66	5.67	AQW612EH
		100	400	1,500	26/35	Economy Version	8-DIP	255-1980-ND	8.58	7.88	7.00	5.95	AQW614
	DPST-NC	100	400	1,500	27/50	Economy Version	8-SMD	255-2140-5-ND	8.58	7.88	7.00	5.95	AQW614A
		100	400	5,000	26/35	Economy Version	8-DIP	255-1351-5-ND	6.10	5.61	4.98	4.24	AQW614EH
		100	400	5,000	26/35	Economy Version	8-SMD	255-1429-5-ND	6.10	5.61	4.98	4.24	AQW614EHA
		120	400	1,500	11/16	Economy Version	8-SMD	255-2142-5-ND	10.56	9.70	8.62	7.33	AQW654A
		120	400	1,500	11/16	Economy Version	8-SMD	255-2142-2-ND†		6250.00/1,000			AQW654AZ
AQ Series Radio Frequency PhotoMOS Relays													
9	DPST-NO	40	400	1,500	70/100	Low On Resistance	8-SMD	255-2136-5-ND	8.48	7.79	6.92	5.89	AQW224NA
		40	400	1,500	70/100	Low On Resistance	8-SMD	255-2137-2-ND†		5017.00/1,000			AQW224NAX
		120	80	1,500	7/10	Low On Resistance	8-DIP	255-1972-ND	8.48	7.79	6.92	5.89	AQW225N
		120	80	1,500	7/10	Low On Resistance	8-SMD	255-1562-5-ND	8.48	7.79	6.92	5.89	AQW225NA
		120	80	1,500	7/10	Low On Resistance	8-SMD	255-1562-2-ND†		5017.00/1,000			AQW225NAX
10	DPST-NO	50	200	1,500	30/50	Low On Resistance	8-DIP	255-1973-ND	8.48	7.79	6.92	5.89	AQW227N
		50	200	1,500	30/50	Low On Resistance	8-SMD	255-1974-ND	8.48	7.79	6.92	5.89	AQW227NA
AQY Series PhotoMOS Relays													
11	SPST-NO	130	350	5,000	18/25	Economy Version	4-DIP	255-1430-5-ND	2.92	2.68	2.38	2.03	AQY210EH
		130	350	5,000	18/25	Economy Version	4-SMD	255-1431-5-ND	2.92	2.68	2.38	2.03	AQY210EHA
		120	350	1,500	20/25	with Current Limit	4-SOP	255-1433-5-ND	6.22	5.72	5.08	4.32	AQY210LS
		120	350	1,500	20/25	with Current Limit	4-SOP	255-1433-2-ND†		3683.00/1,000			AQY210LSX
		120	350	1,500	23.5/35	with Protection	4-SOP	255-1432-5-ND	6.17	5.67	5.04	4.29	AQY210KS
		120	350	1,500	23.5/35	with Protection	4-SOP	255-1432-2-ND†		3654.00/1,000			AQY210KSZ
		120	350	1,500	17/25	—	4-SOP	255-1434-5-ND	4.51	4.14	3.68	3.13	AQY210S
		120	350	1,500	17/25	—	4-SOP	255-2143-2-ND†		2668.00/1,000			AQY210SX
		120	350	1,500	17/25	—	4-SOP	255-2144-2-ND†		2668.00/1,000			AQY210SZ
		1000	60	1,500	0.34/0.7	—	4-SOP	255-1792-5-ND	5.54	5.09	4.52	3.85	AQY212GS
		120	400	5,000	26/35	Economy Version	4-DIP	255-1435-5-ND	2.11	1.94	1.72	1.47	AQY214EH
		120	400	5,000	26/35	Economy Version	4-SMD	255-1436-5-ND	2.11	1.94	1.72	1.47	AQY214EHA
		100	400	1,500	25/35	—	4-SOP	255-1437-5-ND	4.51	4.14	3.68	3.13	AQY214S
		100	400	1,500	25/35	—	4-SOP	255-2145-2-ND†		2668.00/1,000			AQY214SX
		100	400	1,500	25/35	—	4-SOP	255-2146-2-ND†		2668.00/1,000			AQY214SZ
		2000	60	2,500	0.11/0.18	—	4-SMD	255-1563-5-ND	12.37	11.37	10.10	8.59	AQY272A
		350	400	2,500	2.1/3.2	—	4-DIP Wide	255-1564-5-ND	12.37	11.37	10.10	8.59	AQY274
		1300	100	2,500	0.23/0.34	—	4-SMD	255-1565-5-ND	12.37	11.37	10.10	8.59	AQY275A
		650	200	2,500	0.23/0.34	—	4-SMD	255-1566-5-ND	12.37	11.37	10.10	8.59	AQY277A
		500	60	1,500	0.85/2.5	—	4-SOP	255-1795-5-ND	1.76	1.62	1.44	1.23	AQY282S
		100	400	1,500	28/35	—	4-SOP	255-1796-5-ND	1.79	1.65	1.46	1.25	AQY284S
	SPST-NC	130	350	5,000	18/25	Economy Version	4-DIP	255-1983-ND	4.39	4.03	3.58	3.05	AQY410EH
		120	350	1,500	18/25	—	4-SOP	255-1438-5-ND	5.05	4.64	4.12	3.51	AQY410S
		120	350	1,500	18/25	—	4-SOP	255-1438-2-ND†		2987.00/1,000			AQY410SX
		120	60	5,000	26/35	Economy Version	4-DIP	255-1984-ND	4.39	4.03	3.58	3.05	AQY414EH
		100	400	1,500	26/35	—	4-SOP	255-1439-5-ND	5.05	4.64	4.12	3.51	AQY414S
		100	400	1,500	26/35	—	4-SOP	255-2152-2-ND†		2987.00/1,000			AQY414SX
		100	400	1,500	26/35	—	4-SOP	255-2153-2-ND†		2987.00/1,000			AQY414SZ
AQZ Series Power PhotoMOS Relays													
12	SPST-NO	4000	60	2,500	0.05/0.09	—	4-SIP	255-1567-ND	8.97	8.24	7.32	6.23	AQZ102
		2600	100	2,500	0.08/0.17	—	4-SIP	255-1568-ND	8.97	8.24	7.32	6.23	AQZ105
5	SPST-NO	3000	60	2,500	0.11/0.18	—	4-SIP	255-1569-ND	9.70	8.91	7.92	6.74	AQZ202
		500	400	2,500	2.1/3.2	—	4-SIP	255-1985-ND	9.70	8.91	7.92	6.74	AQZ204
		2000	100	2,500	0.23/0.34	—	4-SIP	255-1570-ND	9.70	8.91	7.92	6.74	AQZ205
		1800	100	2,500	2.4/3.2	Volt Sensing	4-SIP	255-1987-ND	11.37	10.44	9.28	7.89	AQZ205D
		1000	200	2,500	0.70/1.10	—	4-SIP	255-1571-ND	9.70	8.91	7.92	6.74	AQZ207
5	SPST-NC	500	400	2,500	2.8/4.0	—	4-SIP	255-2154-5-ND	13.28	12.20	10.84	9.22	AQZ404

† Tape and Reel

SIP Conformal Coated Solid State Relays

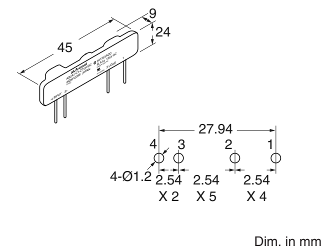

AQ2 SIP SSRs are designed as suitable drivers for AC motors, solenoids, valves, etc. These offer excellent noise resistance with an integrated snubber circuit and ultra thin body (only 9mm) for maintenance-free, long life switching. Zero-Cross is a low noise switching output whereas Phase Controlled are ideal for applications such as motor speed control and light dimming.

Contact Arrange.	Input Voltage (DC) (min./max.)	Dropout Voltage (min.)	Output Current (A) (min./max.)	Output Voltage (AC) (min./max.)	Type	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
SPST-NO	9.6/14.4C	1.2	0.025/2	75/125	Zero-Cross	255-1166-ND	13.23	12.15	10.80	9.18	AQ2A1-C1-ZT12VDC
	4/6	0.5	0.025/2	75/250	Zero-Cross	255-1168-ND◆	13.82	12.69	11.28	9.59	AQ2A2-C1-ZT5VDC
	9.6/14.4	1.2				255-1169-ND	13.82	12.69	11.28	9.59	AQ2A2-C1-ZT12VDC
	21.6/26.4	2.4				255-1170-ND	13.82	12.69	11.28	9.59	AQ2A2-C1-ZT24VDC
	4/6	0.5	0.025/2	75/250	Phase Controlled	255-1174-ND◆	10.88	9.99	8.88	7.55	AQ2A2-C1-T5VDC
	9.6/14.4	1.2				255-1175-ND	10.88	9.99	8.88	7.55	AQ2A2-C1-T12VDC
	21.6/26.4	2.4				255-1176-ND◆	10.88	9.99	8.88	7.55	AQ2A2-C1-T24VDC

◆ ***RoHS Compliant***

Panasonic

Panasonic Electric Works

AQR Solid State Relays

Features:
- SSRs are designed for Power Switching applications such as heater control, printing machines and machine tool controls
- High dielectric strength of 1,500V between input and output

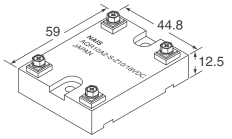

Dim. in mm

Input Voltage	Output Voltage	Output Current	Package	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
4 ~ 6	75 ~ 250	10A	Screw Terminal	255-1535-ND	35.33	32.45	28.84	24.52	AQR10A2-S-Z4/6VDC
18 ~ 28	75 ~ 250	20A	Screw Terminal	255-1539-ND	24.07	20.97	20.19	19.42	AQR20A2-S-Z18/28VDC
4 ~ 6	75 ~ 250	30A	Screw Terminal	255-1542-ND	51.09	44.50	42.85	41.20	AQR30A2-S-Z4/6VDC
10 ~ 18				255-1540-ND	51.09	44.50	42.85	41.20	AQR30A2-S-Z10/18VDC
18 ~ 28				255-1541-ND	51.09	44.50	42.85	41.20	AQR30A2-S-Z18/28VDC
4 ~ 6	75 ~ 250	40A	Screw Terminal	255-1545-ND	62.26	54.23	52.23	50.22	AQR40A2-S-Z4/6VDC
10 ~ 18				255-1543-ND	62.26	54.23	52.23	50.22	AQR40A2-S-Z10/18VDC
18 ~ 28				255-1544-ND	62.26	54.23	52.23	50.22	AQR40A2-S-Z18/28VDC

SHARP MICROELECTRONICS

Solid State Relays

Fig.	Input Voltage Typical	Input Current (mA) Min.	Input Current (mA) Max.	Output Voltage VRMS Max.	Output Current IT (RMS) (A)	Output Holding Current (mA) Max.	Package Type	Digi-Key Part No.	Tube Price Each 1	10	25	Sharp Part No.
1	1.2	5	50	120	1.5	25	16-Dip	425-1182-5-ND	2.55	2.13	1.81	PR21HD22NSZ
		5	50	240	1.5	25	16-Dip	425-1193-5-ND	2.73	2.28	1.94	PR31HD22NSZ
2	1.2	10	50	120	1.5	25	16-Dip	425-1206-5-ND	2.22	1.85	1.58	S101DH1
3	1.2	10	50	120	0.3	25	8-Dip	425-2603-5-ND◆	.88	.75	.68	PR23MF11NSZF
		10	50	120	0.9	25	8-Dip	425-1186-5-ND	1.53	1.30	1.18	PR29MF11NSZ
		10	50	240	0.3	25	8-Dip	425-2647-5-ND◆	.98	.83	.75	PR33MF51NSZF
		10	25	240	0.6	25	8-Dip	425-2369-5-ND◆ ***NEW!***	1.63	1.38	1.25	PR36MF12NSZF
		10	50	240	0.9	25	8-Dip	425-2561-5-ND◆	1.50	1.27	1.15	PR39MF51NSZF
		10	50	240	1.2	25	8-Dip	425-2562-5-ND◆	1.65	1.38	1.17	PR3BMF51NSKF
		—	10	240	0.6	25	8-Dip	425-2369-5-ND◆	1.63	1.38	1.25	PR36MF12NSZF
4	1.2	—	10	120	0.15	3.5	6-SMD	425-2664-1-ND◆†	.84	—	.63	PR22MA11NXPF
								425-2664-2-ND◆‡		294.00/1,000		PR22MA11NXPF
5	1.2	10	50	120	0.15	3.5	6-Dip	425-2602-5-ND◆	.68	.58	.53	PR22MA11NTZF
		10	50	240	0.15	3.5	6-Dip	425-2604-5-ND◆	.75	.64	.58	PR32MA11NTZF

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Fig. 1

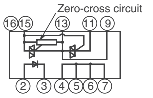

Fig. 2

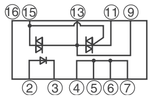

Fig. 3

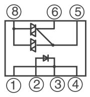

Fig. 4

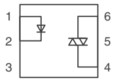

Fig. 5

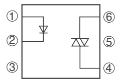

TOSHIBA

PhotoRelay Photocouplers

Digi-Reel®

Fig. 1

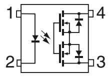

Fig. 2

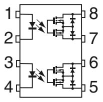

Fig. 3

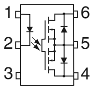

Fig.	Input Current Vf (led)	Imin (mA)	Imax (mA)	VRange (V)	Output Circuit Imax	Ton/Toff (ms/ms)	Package	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Toshiba Part No.
1	1.15	5	25	0 ~ 60	400mA	2/0.5	4-SOP	TLP172AF-ND◆	1.75	1.40	1.05	—	—	TLP172A(F)
	1.15	5	25	0 ~ 350	110mA	1/1	4-SOP	TLP172GF-ND◆	1.68	1.34	1.01	—	—	TLP172G(F)
	1.15	5	25	0 ~ 280	110mA	1/1	4-SOP	TLP172GFCT-ND◆† ***NEW!***	1.78	1.43	1.07	2,500	912.64/M	TLP172G(TP,F)
	1.15	5	25	0 ~ 60	500mA	2/0.5	4-Dip	TLP222AF-ND◆	1.53	1.22	.92	—	—	TLP222A(F)
	1.15	5	25	0 ~ 350	120mA	1/1	4-Dip	TLP227GNF-ND◆	1.78	1.42	1.07	—	—	TLP227G(N,F)
	1.15	5	25	0 ~ 350	120mA	0.3/0.1	4-Dip	TLP222GF-ND◆	1.35	1.08	.81	—	—	TLP222G(F)
	1.15	5	25	0 ~ 320	120mA	1/1	4-SOP	TLP176GAF-ND◆ ***NEW!***	2.45	1.96	1.53	—	—	TLP176GA(F)
	1.15	5	25	0 ~ 280	120mA	1/1	8-Dip	TLP224G-2F-ND◆ ***NEW!***	4.05	3.25	2.53	—	—	TLP224G-2(F)
	1.15	5	25	0 ~ 48	500mA	2/1	4-Dip	TLP227AF-ND◆ ***NEW!***	1.78	1.43	1.07	—	—	TLP227A(F)
	1.15	5	25	0 ~ 320	120mA	1/1	4-Dip	TLP227GAF-ND◆ ***NEW!***	2.08	1.67	1.25	—	—	TLP227GA(F)
	1.15	10	30	0 ~ 20	300mA	500µs/500µs	4-SOP	TLP3131FCT-ND◆† ***NEW!***	5.94	4.76	4.01	2,500	3682.80/M	TLP3131(TP,F)
	1.15	10	30	0 ~ 32	80mA	500µs/500µs	4-SSOP	TLP3213FCT-ND◆† ***NEW!***	6.93	5.55	4.68	1,500	4331.26/M	TLP3213(TP15,F)
	1.15	10	30	0 ~ 32	300mA	500µs/500µs	4-SSOP	TLP3215FCT-ND◆† ***NEW!***	6.93	5.55	4.68	1,500	4331.26/M	TLP3215(TP15,F)
	1.15	5	50	0 ~ 80	120mA	500µs/200µs	4-SSOP	TLP3217FCT-ND◆† ***NEW!***	6.93	5.55	4.68	1,500	4331.26/M	TLP3217(TP15,F)
	1.15	10	30	0 ~ 80	80mA	300µs/300µs	4-SSOP	TLP3220FCT-ND◆† ***NEW!***	6.80	5.44	4.59	1,500	4250.00/M	TLP3220(TP15,F)
	1.15	10	30	0 ~ 20	450mA	500µs/500µs	4-SSOP	TLP3231FCT-ND◆† ***NEW!***	6.93	5.55	4.68	1,500	4331.26/M	TLP3231(TP15,F)
	1.15	5	25	0 ~ 280	90mA	0.5/1	4-SOP	TLP4172GFCT-ND◆† ***NEW!***	2.26	1.81	1.41	2,500	1263.78/M	TLP4172G(TP,F)
	1.15	5	25	0 ~ 280	120mA	1/3	4-SOP	TLP4176GFCT-ND◆† ***NEW!***	2.87	2.30	1.79	2,500	1605.24/M	TLP4176G(TP,F)
	1.15	5	25	0 ~ 280	150mA	1/3	4-Dip	TLP4227GF-ND◆ ***NEW!***	2.32	1.86	1.40	—	—	TLP4227G(F)
2	1.15	5	25	0 ~ 350	120mA	1/1	8-SOP	TLP227G2NFCT-ND◆†	2.70	2.16	1.68	1,500	1530.00/M	TLP227G-2(TP1,N,F)
	1.15	5	25	0 ~ 320	120mA	1/1	8-SOP	TLP206GAF-ND◆ ***NEW!***	5.57	4.46	3.47	—	—	TLP206GA(F)
	1.15	5	25	0 ~ 48	500mA	2/0.5	8-Dip	TLP222A-2F-ND◆ ***NEW!***	2.48	1.98	1.49	—	—	TLP222A-2(F)
	1.15	5	25	0 ~ 280	120mA	1/1	8-Dip	TLP222G-2F-ND◆ ***NEW!***	2.38	1.90	1.43	—	—	TLP222G-2(F)
	1.15	5	25	0 ~ 320	120mA	1/1	8-Dip	TLP227GA-2F-ND◆ ***NEW!***	4.03	3.23	2.51	—	—	TLP227GA-2(F)
	1.15	5	50	0 ~ 350	120mA	1/3	8-Dip	TLP4006GF-ND◆ ***NEW!***	3.69	2.95	2.30	—	—	TLP4006G(F)
	1.15	5	25	0 ~ 280	100mA	1/1	8-Dip	TLP4007GF-ND◆ ***NEW!***	2.46	1.97	1.54	—	—	TLP4007G(F)
	1.15	5	25	0 ~ 280	90mA	1/1	8-SOP	TLP4027GFCT-ND◆† ***NEW!***	3.69	2.95	2.30	2,500	2065.14/M	TLP4027G(TP,F)
	1.15	5	25	0 ~ 280	90mA	0.5/1	8-SOP	TLP4202GFCT-ND◆† ***NEW!***	4.17	3.34	2.60	2,500	2334.78/M	TLP4202G(TP,F)
	1.15	5	25	0 ~ 280	100mA	0.5/1	8-Dip	TLP4222G-2F-ND◆ ***NEW!***	2.86	2.29	1.78	—	—	TLP4222G-2(F)
	1.15	5	25	0 ~ 280	150mA	1/3	8-Dip	TLP4227G-2F-ND◆ ***NEW!***	3.21	2.57	2.00	—	—	TLP4227G-2(F)
3	1.33	10	20	0 ~ 48	2.5A	1.5/0.4	6-Dip	TLP3542-ND	8.60	6.88	5.81	—	—	TLP3542
	1.33	10	20	0 ~ 48	2.5A	1.5/0.4	6-Dip	TLP3542F-ND◆	8.60	6.88	5.81	—	—	TLP3542(F)
	1.15	5	30	0 ~ 80	1.25A	3/1	6-SOP	TLP3120F-ND◆	8.00	6.40	5.40	—	—	TLP3120(F)
	1.15	5	25	0 ~ 160	200mA	1.5/1	6-SOP	TLP197DF-ND◆ ***NEW!***	2.45	1.96	1.47	—	—	TLP197D(F)
	1.15	5	25	0 ~ 280	120mA	1/1	6-SOP	TLP197GFCT-ND◆† ***NEW!***	2.45	1.96	1.47	2,500	1254.40/M	TLP197G(TP,F)
	1.15	5	25	0 ~ 280	90mA	0.5/1	6-SOP	TLP4192GFCT-ND◆† ***NEW!***	2.26	1.81	1.41	2,500	1263.78/M	TLP4192G(TP,F)
	1.15	5	25	0 ~ 280	150mA	1/3	6-Dip	TLP4597GF-ND◆ ***NEW!***	2.25	1.81	1.41	—	—	TLP4597G(F)
	1.15	5	25	0 ~ 48	500mA	2/0.5	6-Dip	TLP592AF-ND◆ ***NEW!***	1.39	1.11	.84	—	—	TLP592A(F)
	1.15	5	25	0 ~ 280	110mA	1/1	6-Dip	TLP592GF-ND◆ ***NEW!***	1.65	1.33	1.00	—	—	TLP592G(F)
	1.15	5	25	0 ~ 280	120mA	1/1	6-Dip	TLP597GF-ND◆ ***NEW!***	1.91	1.53	1.15	—	—	TLP597G(F)
	1.15	7.5	25	0 ~ 480	100mA	1.5/1	6-Dip	TLP797JF-ND◆ ***NEW!***	3.21	2.57	2.00	—	—	TLP797J(F)

◆ ***RoHS Compliant*** † Cut Tape ‡ For Tape and Reel change CT-ND to TR-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OMRON MOSFET Relays

Omron's G3VM relays are PCB and SMT solid state switches that are capable of controlling voltages up to 600V. Extremely low input currents, low ON-State Resistance and small packages make these relays ideal for microprocessor and logic switching. Current limiting input resistor required for operation. Packages include 4, 6 and 8 pin Dip, SMT, or SOP packages or use the extremely small 4-SSOP package for extremely small board space requirements. Relays will switch both AC or DC voltages.

Fig.	Contact Form	Input Voltage	Input Current (mA)	Output Volt. (Peak)	Output Current	ON Resist. (Ω)	Package	Digi-Key Part No.	Price Each			Omron Part No.
									1	25	50	
G3VM Series — Ultra Small MOSFET Relays												
1	SPST-NO	1.15V	10 ~ 30	20V	300mA	1.2	4-SSOP	Z1622-ND	18.14	16.33	14.51	G3VM-21LR1
	SPST-NO	1.15V	7 ~ 30	20V	160mA	8	4-SSOP	Z2075-ND	18.14	16.33	14.51	G3VM-21LR
	SPST-NO	1.15V	10 ~ 30	40V	80mA	1	4-SSOP	Z1623-ND	18.14	16.33	14.51	G3VM-41LR3
	SPST-NO	1.15V	10 ~ 30	40V	250mA	1	4-SSOP	Z1624-ND	18.14	16.33	14.51	G3VM-41LR4
	SPST-NO	1.15V	10 ~ 30	40V	300mA	1.5	4-SSOP	Z1625-ND	18.14	16.33	14.51	G3VM-41LR5
	SPST-NO	1.15V	10 ~ 30	40V	120mA	15	4-SSOP	Z1626-ND	18.14	16.33	14.51	G3VM-41LR6
	SPST-NO	1.15V	10 ~ 30	40V	140mA	10	4-SSOP	Z2700-ND	21.38	19.24	17.10	G3VM-41LR11
	SPST-NO	1.15V	10 ~ 30	40V	120mA	12	4-SSOP	Z2701-ND	21.38	19.24	17.10	G3VM-41LR10
	SPST-NO	1.15V	10 ~ 30	60V	400mA	12	4-SSOP	Z2715-ND	19.10	17.19	15.28	G3VM-61LR
	SPST-NO	1.15V	10 ~ 30	80V	120mA	12	4-SSOP	Z2702-ND	18.95	17.06	15.16	G3VM-81LR
G3VM Series — Solid State MOSFET Relays												
2	SPST-NO	1.15V	7 ~ 30	20V	300mA	1.5	4-SOP	Z2077-ND	5.55	5.00	4.44	G3VM-21GR1
	SPST-NO	1.15V	7 ~ 30	20V	160mA	8	4-SOP	Z2076-ND	5.55	5.00	4.44	G3VM-21GR
	SPST-NO	1.15V	10 ~ 30	40V	80mA	25	4-SOP	Z2115-ND	3.30	2.98	2.65	G3VM-41GR3
	SPST-NO	1.15V	10 ~ 30	40V	250mA	2	4-SOP	Z2116-ND	3.30	2.98	2.65	G3VM-41GR4
	SPST-NO	1.15V	10 ~ 30	40V	300mA	1.5	4-SOP	Z2078-ND	4.70	4.23	3.76	G3VM-41GR5
	SPST-NO	1.15V	10 ~ 30	40V	120mA	15	4-SOP	Z2079-ND	5.55	5.00	4.44	G3VM-41GR6
	SPST-NO	1.15V	10 ~ 50	80V	200mA	8	4-SOP	Z2703-ND	11.93	10.74	9.54	G3VM-81GR1
	SPST-NO	1.15V	10 ~ 50	80V	40mA	25	4-SOP	Z2704-ND	11.93	10.74	9.54	G3VM-81GR
	SPST-NO	1.15V	5 ~ 25	350V	120mA	22	4-Dip	Z150-ND	3.10	2.79	2.48	G3VM-2
	SPST-NO	1.15V	5 ~ 25	350V	120mA	22	4-SMT	Z151-ND	3.10	2.79	2.48	G3VM-2F
	SPST-NO	1.15V	10 ~ 50	350V	300mA	35	4-Dip	Z2710-ND	4.13	3.72	3.30	G3VM-2L
	SPST-NO	1.15V	10 ~ 50	350V	300mA	35	4-SMT	Z2711-ND	4.13	3.72	3.30	G3VM-2FL
	SPST-NO	1.15V	5 ~ 25	350V	120mA	22	6-Dip	Z152-ND	3.10	2.79	2.48	G3VM-3
	SPST-NO	1.15V	5 ~ 25	350V	120mA	22	6-Dip	Z2712-ND	4.70	4.23	3.76	G3VM-3L
	SPST-NO	1.15V	5 ~ 25	350V	120mA	22	6-SMT	Z2713-ND	4.00	3.60	3.20	G3VM-3FL
	SPST-NO	1.15V	5 ~ 25	350V	120mA	22	6-SMT	Z153-ND	3.10	2.79	2.48	G3VM-3F-S
	DPST-NO	1.15V	5 ~ 25	350V	100mA	22	8-Dip	Z154-ND	6.28	5.65	5.02	G3VM-W
	DPST-NO	1.15V	5 ~ 25	350V	100mA	22	8-SMT	Z155-ND	6.28	5.65	5.02	G3VM-WF
	DPST-NO	1.15V	10 ~ 50	350V	120mA	35	8-SMT	Z2705-ND	8.08	7.27	6.46	G3VM-WFL
	SPST-NO	1.15V	7.5 ~ 25	60V	300mA	1.4	6-Dip	Z156-ND	3.10	2.79	2.48	G3VM-V
	SPST-NO	1.15V	7.5 ~ 25	60V	300mA	1.4	6-SMT	Z157-ND	3.10	2.79	2.48	G3VM-VF
	SPST-NO	1.15V	7.5 ~ 25	60V	300mA	2	6-Dip	Z227-ND	9.03	8.13	7.22	G3VM-XN-S
	SPST-NO	1.15V	7.5 ~ 25	60V	300mA	2	6-SMT	Z228-ND	9.03	8.13	7.22	G3VM-XNF-S
	SPST-NO	1.15V	7.5 ~ 25	400V	150mA	12	6-Dip	Z229-ND	9.03	8.13	7.22	G3VM-4N-S
	SPST-NO	1.15V	7.5 ~ 25	400V	150mA	12	6-SMT	Z230-ND	9.03	8.13	7.22	G3VM-4NF-S
	SPST-NO	1.15V	5 ~ 25	60V	300mA	12	4-SOP	Z1039-ND	4.43	3.99	3.54	G3VM-S1
	SPST-NO	1.15V	5 ~ 50	200V	50mA	30	4-SOP	Z2507-ND	7.56	6.81	6.05	G3VM-201G
	SPST-NO	1.15V	5 ~ 50	200V	200mA	8	6-SOP	Z2709-ND	4.63	4.17	3.70	G3VM-201H1
	SPST-NO	1.15V	5 ~ 25	400V	120mA	35	4-Dip	Z2089-ND	5.30	4.77	4.24	G3VM-401A
	SPST-NO	1.15V	5 ~ 25	400V	120mA	35	6-DiP	Z2091-ND	5.30	4.77	4.24	G3VM-401B
	SPST-NO	1.15V	5 ~ 25	400V	120mA	35	4-SMT	Z2090-ND	5.30	4.77	4.24	G3VM-401D
	SPST-NO	1.15V	5 ~ 25	400V	120mA	35	6-SMT	Z2092-ND	5.30	4.77	4.24	G3VM-401E
	SPST-NO	1.15V	5 ~ 25	400V	120mA	35	4-SOP	Z2095-ND	4.77	4.30	3.82	G3VM-401G
	SPST-NO	1.15V	5 ~ 25	400V	120mA	35	6-SOP	Z2096-ND	5.19	4.68	4.16	G3VM-401H
	SPST-NO	1.15V	5 ~ 25	400V	120mA	35	6-Dip	Z2093-ND	5.56	5.01	4.45	G3VM-401BY
	SPST-NO	1.15V	5 ~ 25	400V	120mA	35	6-SMT	Z2094-ND	5.71	5.15	4.57	G3VM-401EY
	DPST-NO	1.15V	5 ~ 25	400V	120mA	35	8-Dip	Z2097-ND	7.65	6.89	6.13	G3VM-402C
	DPST-NO	1.15V	5 ~ 25	400V	120mA	35	8-SMT	Z2098-ND	7.65	6.89	6.13	G3VM-402F
	DPST-NO	1.15V	5 ~ 25	400V	120mA	35	8-SOP	Z2099-ND	7.65	6.89	6.13	G3VM-402J
	SPST-NO	1.15V	5 ~ 25	600V	100mA	35	6-Dip	Z1040-ND	8.60	7.74	6.88	G3VM-601BY
	SPST-NO	1.15V	5 ~ 25	600V	100mA	35	6-SMT	Z1041-ND	8.60	7.74	6.88	G3VM-601EY
	SPST-NO	1.15V	5 ~ 25	350V	120mA	35	4-Dip	Z2080-ND	3.61	3.25	2.89	G3VM-351A
	SPST-NO	1.15V	5 ~ 25	350V	120mA	35	6-Dip	Z2081-ND	3.54	3.19	2.84	G3VM-351B
	DPST-NO	1.15V	5 ~ 25	350V	120mA	35	8-Dip	Z2086-ND	5.19	4.68	4.16	G3VM-352C
	SPST-NO	1.15V	5 ~ 25	350V	120mA	35	4-SMT	Z2082-ND	3.72	3.35	2.98	G3VM-351D
	SPST-NO	1.15V	5 ~ 25	350V	120mA	35	6-SMT	Z2083-ND	3.61	3.25	2.89	G3VM-351E
	DPST-NO	1.15V	5 ~ 25	350V	120mA	35	8-SMT	Z2087-ND	5.19	4.68	4.16	G3VM-352F
	SPST-NO	1.15V	5 ~ 25	350V	110mA	35	4-SOP	Z2084-ND	4.55	4.10	3.65	G3VM-351G
	SPST-NO	1.15V	5 ~ 25	350V	120mA	35	4-SOP	Z2457-ND	4.49	4.05	3.60	G3VM-351GL
	SPST-NO	1.15V	5 ~ 25	350V	110mA	35	6-SOP	Z2085-ND	6.41	5.77	5.13	G3VM-351H
	DPST-NO	1.15V	5 ~ 25	350V	110mA	35	8-SOP	Z2088-ND	5.19	4.68	4.16	G3VM-352J
	DPST-NO	1.15V	5 ~ 25	200V	150mA	25	8-Dip	Z1042-ND	17.70	15.93	14.16	G3VM-354C
	DPST-NC	1.15V	5 ~ 25	350V	100mA	25	8-Dip	Z2453-ND	13.44	12.10	10.75	G3VM-354C1
	DPST-NO	1.15V	5 ~ 25	200V	150mA	25	8-SMT	Z1043-ND	17.70	15.93	14.16	G3VM-354F
	DPST-NC	1.15V	5 ~ 25	350V	100mA	25	8-SMT	Z2454-ND	13.52	12.17	10.82	G3VM-354F1
	DPST-NC	1.15V	5 ~ 25	350V	120mA	25	8-SOP	Z2455-ND	26.84	24.16	21.47	G3VM-354J
	DPST-NC	1.15V	5 ~ 25	350V	90mA	25	8-SOP	Z2456-ND	12.28	11.05	9.82	G3VM-354J1
	SPST-NO	1.15V	5 ~ 25	400V	150mA	25	4-Dip	Z1044-ND	9.45	8.51	7.56	G3VM-353A
	SPST-NC	1.15V	5 ~ 25	350V	100mA	15	4-Dip	Z2445-ND	5.26	4.74	4.21	G3VM-353A1
	SPST-NO	1.15V	5 ~ 25	400V	150mA	25	6-Dip	Z1045-ND	9.45	8.51	7.56	G3VM-353B
	SPST-NC	1.15V	5 ~ 25	350V	100mA	50	6-Dip	Z2447-ND	7.25	6.53	5.80	G3VM-353B1
	SPST-NO	1.15V	5 ~ 25	400V	150mA	25	4-SMT	Z1046-ND	9.97	8.98	7.98	G3VM-353D
	SPST-NO	1.15V	5 ~ 25	400V	150mA	25	6-SMT	Z1047-ND	9.45	8.51	7.56	G3VM-353E
	SPST-NC	1.15V	5 ~ 25	350V	100mA	50	6-SMT	Z2448-ND	7.43	6.69	5.95	G3VM-353E1
	SPST-NC	1.15V	5 ~ 25	350V	120mA	25	6-SOP	Z2451-ND	12.85	11.57	10.28	G3VM-353H
	SPST-NO	1.15V	5 ~ 25	60V	500mA	2	4-Dip	Z2100-ND	4.16	3.75	3.33	G3VM-61A1
	SPST-NO	1.15V	5 ~ 25	60V	500mA	2	4-SMT	Z2101-ND	4.16	3.75	3.33	G3VM-61D1
	SPST-NO	1.15V	5 ~ 25	60V	500mA	2	6-Dip	Z2102-ND	4.16	3.75	3.33	G3VM-61B1
	SPST-NO	1.15V	5 ~ 25	60V	500mA	2	6-SMT	Z2103-ND	4.32	3.89	3.46	G3VM-61E1
	SPST-NO	1.15V	5 ~ 25	60V	400mA	8	4-SOP	Z2106-ND	4.56	4.11	3.65	G3VM-61G1
	SPST-NO	1.15V	5 ~ 25	60V	400mA	2	6-SOP	Z2107-ND	4.16	3.75	3.33	G3VM-61H1
	SPST-NO	1.33V	10 ~ 20	60V	2.5A	.10	6-SMT	Z2443-ND	20.27	18.25	16.22	G3VM-61ER
	DPST-NO	1.15V	10 ~ 30	60V	500mA	2	8-Dip	Z2708-ND	6.58	5.92	5.26	G3VM-62C1
	DPST-NO	1.15V	5 ~ 25	60V	500mA	2	8-SMT	Z2108-ND	6.58	5.92	5.27	G3VM-62F1
	DPST-NO	1.15V	5 ~ 25	60V	400mA	2	8-SOP	Z2109-ND	9.28	8.36	7.43	G3VM-62J1
	DPST-NO	1.15V	5 ~ 25	20V	150mA	4	8-Dip	Z2706-ND	9.68	8.71	7.74	G3VM-22CO
	DPST-NO	1.15V	5 ~ 25	20V	150mA	4	8-SMT	Z2707-ND	9.40	8.46	7.52	G3VM-22FO
	SPST-NO	1.15V	5 ~ 30	80V	350mA	1.2	4-SOP	Z2459-ND	9.65	8.69	7.73	G3VM-81G1
	SPST-NO	1.15V	5 ~ 25	80V	1250mA	.15	6-SOP	Z2110-ND	21.02	18.92	16.82	G3VM-81HR
	SPST-NO	1.15V	5 ~ 25	400V	150mA	12	6-Dip	Z158-ND	5.68	5.11	4.54	G3VM-6
	SPST-NO	1.15V	5 ~ 25	400V	150mA	12	6-SMT	Z159-ND	5.68	5.11	4.54	G3VM-6F
	SPST-NO	1.15V	5 ~ 25	350V	120mA	35	4-SOP	Z160-ND	3.58	3.22	2.86	G3VM-S2
	SPST-NO	1.15V	5 ~ 25	350V	120mA	35	6-SOP	Z161-ND	6.00	5.40	4.80	G3VM-S3
	SPST-NO	1.15V	5 ~ 25	200V	150mA	35	4-SOP	Z162-ND	3.95	3.56	3.16	G3VM-S5
	DPST-NO	1 .15V	5 ~ 25	350V	120mA	22	8-SOP	Z163-ND	7.95	7.16	6.36	G3VM-SWS
	DPST-NO	1.15V	5 ~ 25	60V	200mA	2	8-SOP	Z164-ND	7.95	7.16	6.36	G3VM-SY
	SPST-NO/NC	1.15V	5 ~ 25	350V	120mA	25	8-Dip	Z2460-ND	13.65	12.29	10.93	G3VM-355CR
	SPST-NO/NC	1.15V	5 ~ 25	350V	120mA	25	8-SMT	Z2461-ND	13.65	12.29	10.93	G3VM-355FR
	SPST-NO/NC	1.15V	5 ~ 25	350V	120mA	25	8-SOP	Z2462-ND	13.16	11.85	10.53	G3VM-355JR
	DPST-NO	1.15V	5 ~ 25	350V	120mA	22	8-Dip	Z2508-ND	8.08	7.28	6.47	G3VM-WL
	DPST-NO	1.15V	5 ~ 25	200V	200mA	5	8-SOP	Z2509-ND	7.56	6.81	6.05	G3VM-202J1

Fig. 1 — G3VM-LR Series

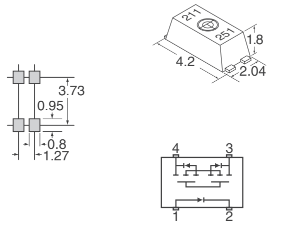

Fig. 2 — G3VM Series

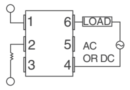

MOSFET relays boast performance with long life, low input drive, and high-speed response to handle minute analog signals with minimum current leakage. The standard G3VM MOSFET relays have dielectric strength of 2,500 VAC between I/O terminals (except SOP relays).

6-SOP

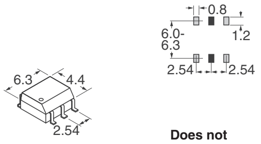

Does not include shaded pins for 4-SOP

6-DIP

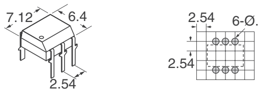

6-SMT

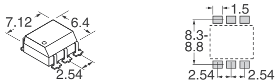

8-SOP

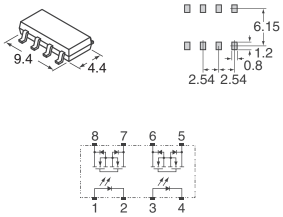

OMRON® Power Solid State Relays

G3M and G3MB relays are larger current relays but offered in a SIP package to reduce board space. Perfect for controlling pumps, alarms, solenoids and other inductive/capacitive loads. Use zero-cross for general power switching or highly inductive loads or use Phase Controlled for output control of motor speed controls or light dimming. The G3R relays are drop-in replacements to the popular G2R Electromechanical relays. Perfect for compact Din-Rail mounting and applications requiring the long life of solid state relays. G3TC series are replacement to standard I/O modules. Replaces Opto22, Gordos and many other I/O modules. Perfect for multiple output controls.

Fig. 1 — G3M Series

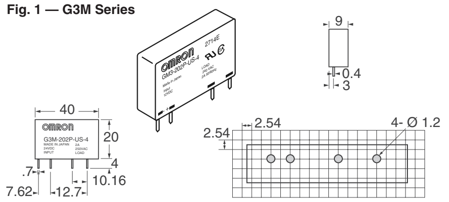

Features: • Zero-cross or Phase Control type • Thin design for high-density PCB applications • DC input — AC output for 2A load • Footprint compatible with industry standard I/O modules • Low cost **Characteristic Data:** • Operate time: 1ms maximum • Output ON voltage drop: 1.6V (RMS) maximum • Leakage Current: 2mA maximum (at 100VAC); 5mA maximum (at 200VAC) • Operating Temperature: -30°C ~ 80°C

Fig. 2 — G3MB/MC Series

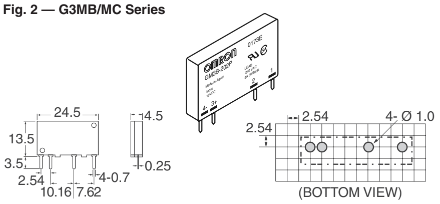

Features: • Low-cost, subminiature, PCB-mounting, solid-state relay switching 2A • DC input: AC output for 2A load at 25°C • Mono-block lead frame facilitates heat dissipation without use of heat sink • Smaller Footprint (Approximately 20% smaller than G3MB) is ideal for close PCB Mounting applications • Built-In Snubber Circuit **Characteristic Data:** • Leakage Current: 1.5mA maximum • Operating Temperature: -30°C ~ 80°C

Fig.	Contact Form	Input Voltage	Output Voltage (Peak)	Output Current	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
G3M Series — Standard Sip Package — RoHS Compliant										
1	SPST-NO	4 ~ 6 VDC	75 ~ 132 VAC	.1 ~ 2A	Phase Controlled	Z903-ND	7.38	6.64	5.90	G3M-102PL-US-4-DC5
		9.6 ~ 14.4 VDC	75 ~ 132 VAC	.1 ~ 2A		Z904-ND	7.38	6.64	5.90	G3M-102PL-US-4-DC12
		19.2 ~ 28.8 VDC	75 ~ 132 VAC	.1 ~ 2A		Z905-ND	7.38	6.64	5.90	G3M-102PL-US-4-DC24
		4 ~ 6 VDC	75 ~ 264 VAC	.1 ~ 2A		Z906-ND	8.35	7.52	6.68	G3M-202PL-US-4-DC5
		9.6 ~ 14.4 VDC	75 ~ 264 VAC	.1 ~ 2A		Z907-ND	8.35	7.52	6.68	G3M-202PL-US-4-DC12
		19.2 ~ 28.8 VDC	75 ~ 264 VAC	.1 ~ 2A		Z908-ND	8.35	7.52	6.68	G3M-202PL-US-4-DC24
	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	.1 ~ 2A	Zero Cross	Z900-ND	9.00	8.10	7.20	G3M-202P-US-4-DC5
		19.2 ~ 28.8 VDC	75 ~ 264 VAC	.1 ~ 2A		Z902-ND	9.90	8.91	7.92	G3M-202P-US-4-DC24
G3MB Series — Mini Sip Package — RoHS Compliant										
2	SPST-NO	4 ~ 6 VDC	75 ~ 132 VAC	.1 ~ 2A	Phase Controlled	Z912-ND	3.53	3.18	2.82	G3MB-102PL-DC5
		9.6 ~ 14.4 VDC	75 ~ 132 VAC	.1 ~ 2A		Z913-ND	3.53	3.18	2.82	G3MB-102PL-DC12
		19.2 ~ 28.8 VDC	75 ~ 132 VAC	.1 ~ 2A		Z914-ND	3.53	3.18	2.82	G3MB-102PL-DC24
		4 ~ 6 VDC	75 ~ 264 VAC	.1 ~ 2A		Z915-ND	3.93	3.54	3.14	G3MB-202PL-DC5
		9.6 ~ 14.4 VDC	75 ~ 264 VAC	.1 ~ 2A		Z916-ND	3.93	3.54	3.14	G3MB-202PL-DC12
		19.2 ~ 28.8 VDC	75 ~ 264 VAC	.1 ~ 2A		Z917-ND	3.93	3.54	3.14	G3MB-202PL-DC24
	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	.1 ~ 2A	Zero Cross	Z909-ND	4.33	3.90	3.46	G3MB-202P-DC5
		9.6 ~ 14.4 VDC	75 ~ 264 VAC	.1 ~ 2A		Z910-ND	4.33	3.90	3.46	G3MB-202P-DC12
		19.2 ~ 28.8 VDC	75 ~ 264 VAC	.1 ~ 2A		Z911-ND	4.33	3.90	3.46	G3MB-202P-DC24
G3MC Series — Micro Sip Package — RoHS Compliant										
2	SPST-NO	4 ~ 6 VDC	75 ~ 132 VAC	.1 ~ 1A	Phase Controlled	Z1196-ND	3.40	3.06	2.72	G3MC-101PL-DC5
		9.6 ~ 14.4 VDC	75 ~ 132 VAC	.1 ~ 1A		Z1197-ND	3.40	3.06	2.72	G3MC-101PL-DC12
		19.2 ~ 28.8 VDC	75 ~ 132 VAC	.1 ~ 1A		Z1198-ND	3.40	3.06	2.72	G3MC-101PL-DC24
	SPST-NO	4 ~ 6 VDC	75 ~ 132 VAC	.1 ~ 1A	Zero Cross	Z1195-ND	3.68	3.31	2.94	G3MC-101P-DC5
		9.6 ~ 14.4 VDC	75 ~ 132 VAC	.1 ~ 1A		Z1236-ND	3.73	3.36	2.98	G3MC-101P-DC12
		19.2 ~ 28.8 VDC	75 ~ 132 VAC	.1 ~ 1A		Z1237-ND	3.73	3.36	2.98	G3MC-101P-DC24
	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	.1 ~ 1A	Phase Controlled	Z2521-ND	4.27	3.84	3.42	G3MC-201PL-DC5
		9.6 ~ 14.4 VDC	75 ~ 264 VAC	.1 ~ 1A		Z2523-ND	4.27	3.84	3.42	G3MC-201PL-DC12
	SPST-NO	4 ~ 6 VDC	75 ~ 264 VAC	.1 ~ 1A	Zero Cross	Z2520-ND	4.63	4.17	3.71	G3MC-201P-DC5
		9.6 ~ 14.4 VDC	75 ~ 264 VAC	.1 ~ 1A		Z2522-ND	4.63	4.17	3.71	G3MC-201P-DC12
		19.2 ~ 28.8 VDC	75 ~ 264 VAC	.1 ~ 1A		Z2524-ND	4.63	4.17	3.71	G3MC-201P-DC24
G3S/G3D SSR Relay's — RoHS Compliant										
3	SPST-NO	9.6 ~ 14.5VDC	100 ~ 240VAC	1A	—	Z2766-ND	14.03	12.63	11.22	G3S-201PL-US DC12
		19.2 ~ 28.8VDC	100 ~ 240VAC	1.2A		Z2768-ND	15.35	13.82	12.28	G3S-201PL-PD-US DC24
		19.2 ~ 28.8VDC	4 ~ 24VDC	1A		Z2769-ND	10.25	9.23	8.20	G3SD-Z01P-US DC24
4	SPST-NO	19.2 ~ 28.8VDC	3 ~ 264VAC	.6A	—	Z2770-ND	14.53	13.08	11.62	G3DZ-2R6PL DC24
G3R Series — QC Style Package — RoHS Compliant										
5	SPST-NO	4 ~ 6 VDC	4 ~ 32 VDC	.1A	Phase Controlled	Z1190-ND	18.18	16.36	14.54	G3R-IDZR1SN-DC5
		12 ~ 24 VDC	4 ~ 32 VDC	.1A		Z1191-ND	18.18	16.36	14.54	G3R-IDZR1SN-DC12-24
		100 ~ 240 VAC	4 ~ 32 VDC	.1A		Z1234-ND	22.88	20.59	18.30	G3R-IAZR1SN-AC100/240
	SPST-NO	5 ~ 24 VDC	4 ~ 60 VDC	.01 ~ 2A	Zero Cross	Z1193-ND	20.28	18.25	16.22	G3R-ODX02SN-DC5-24
		5 ~ 24 VDC	40 ~ 200 VDC	.01 ~ 1.5A		Z1194-ND	23.33	21.00	18.66	G3R-OD201SN-DC5-24
		5 ~ 24 VDC	75 ~ 264 VAC	.05 ~ 2A		Z1192-ND	22.67	20.41	18.14	G3R-OA202SZN-DC5-24
		5 ~ 24 VDC	75 ~ 264 VAC	.05 ~ 2A		Z1235-ND	30.10	27.09	24.08	G3R-OA202SLN-DC5-24
G3TC I/O Modules — Standard Sip Package										
6	SPST-NO	180 ~ 280 VAC/DC	4.5 ~ 6 VDC	50mA	Yellow	Z2018-ND◆	14.91	13.42	11.93	G3TC-IAC-5A AC/DC240
		90 ~ 140 VAC/DC	12 ~ 18 VDC	50mA		Z2019-ND	13.52	12.17	10.82	G3TC-IAC-15 AC/DC120
		90 ~ 140 VAC/DC	20 ~ 30 VDC	50mA		Z2020-ND◆	13.52	12.17	10.82	G3TC-IAC-24 AC/DC120
		90 ~ 140 VAC/DC	4.5 ~ 6 VDC	50mA		Z2021-ND◆	13.52	12.17	10.82	G3TC-IAC5 AC/DC120
	SPST-NO	2.5 ~ 8 VDC	75 ~ 140 VAC	3A	Black	Z2027-ND◆	14.05	12.65	11.24	G3TC-OAC5-DC5
		9 ~ 16 VDC	75 ~ 140 VAC	3A		Z2025-ND◆	14.05	12.65	11.24	G3TC-OAC15-DC15
		18 ~ 32 VDC	75 ~ 140 VAC	3A		Z2026-ND	14.05	12.65	11.24	G3TC-OAC24-DC24
		2.5 ~ 8 VDC	5 ~ 60 VAC	3A		Z2028-ND◆	14.90	13.41	11.92	G3TCOAC5ADC5
	SPST-NO	10-32 VDC/15-32 VAC	4.5 ~ 6 VDC	50mA	White	Z2024-ND◆	13.38	12.05	10.71	G3TC-IDC5-DC/AC24
		10-32 VDC/15-32 VAC	12 ~ 18 VDC	50mA		Z2022-ND	13.38	12.05	10.71	G3TC-IDC15-DC/AC24
		10-32 VDC/15-32 VAC	20 ~ 30 VDC	50mA		Z2023-ND	13.38	12.05	10.71	G3TC-IDC24-DC/AC24
	SPST-NO	2.5 ~ 8 VDC	5 ~ 60 VDC	3A	Red	Z2031-ND◆	14.18	12.76	11.35	G3TC-ODC5-DC5
		9 ~ 16 VDC	5 ~ 60 VDC	3A		Z2029-ND◆	14.18	12.76	11.35	G3TC-ODC15-DC15
		18 ~ 32 VDC	5 ~ 60 VDC	3A		Z2030-ND◆	14.18	12.76	11.35	G3TC-ODC24-DC24
		2.5 ~ 8 VDC	5 ~ 200 VDC	1A		Z2032-ND◆	16.24	14.62	13.00	G3TC-ODC5A-DC5
G3NE Series (QC Terminals)										
7	SPST-NO	5VDC	75 ~ 264VAC	.1 ~ 5A	Zero Cross	Z2590-ND◆	15.20	13.68	12.16	G3NE-205T-US-DC5
		12VDC	75 ~ 264VAC	.1 ~ 5A		Z2589-ND◆	15.20	13.68	12.16	G3NE-205T-US-DC12
	SPST-NO	5VDC	75 ~ 264VAC	.1 ~ 5A	Zero Cross	Z2591-ND◆	15.20	13.68	12.16	G3NE-205TL-US-DC5
	SPST-NO	4 ~ 6VDC	75 ~ 264VAC	.1 ~ 10A	Zero Cross	Z175-ND◆	16.58	14.92	13.26	G3NE-210T-US-DC5
		9.6 ~ 14.1VDC	75 ~ 264VAC	.1 ~ 10A		Z176-ND	16.58	14.92	13.26	G3NE-210T-US-DC12
		19.2 ~ 28.8VDC	75 ~ 264VAC	.1 ~ 10A		Z177-ND◆	16.58	14.92	13.26	G3NE-210T-US-DC24
	SPST-NO	4 ~ 6VDC	75 ~ 264VAC	.1 ~ 20A	Zero Cross	Z178-ND◆	19.43	17.49	15.54	G3NE-220T-US-DC5
		9.6 ~ 14.1VDC	75 ~ 264VAC	.1 ~ 20A		Z179-ND◆	19.43	17.49	15.54	G3NE-220T-US-DC12
		19.2 ~ 28.8VDC	75 ~ 264VAC	.1 ~ 20A		Z180-ND	19.43	17.49	15.54	G3NE-220T-US-DC24
G3NA Series (Screw Terminals)										
8	SPST-NO	5 ~ 24VDC	19 ~ 264VAC	.1 ~ 5A	Zero Cross	Z165-ND◆	18.38	16.54	14.70	G3NA-205B-DC5-24
		100 ~ 120VAC	19 ~ 264VAC	.1 ~ 5A		Z166-ND◆	23.13	20.82	18.50	G3NA-205B-AC100-120
		200 ~ 240VAC	19 ~ 264VAC	.1 ~ 5A		Z167-ND	23.13	20.82	18.50	G3NA-205B-AC200-240
	SPST-NO	4 ~ 32VDC	19 ~ 264VAC	.1 ~ 10A	Zero Cross	Z918-ND◆	18.80	16.92	15.04	G3NA-210B-DC5-24
		75 ~ 132VAC	19 ~ 264VAC	.1 ~ 10A		Z919-ND◆	25.18	22.66	20.14	G3NA-210B-AC100-120
		150 ~ 264VAC	19 ~ 264VAC	.1 ~ 10A		Z920-ND	25.18	22.66	20.14	G3NA-210B-AC200-240
	SPST-NO	5 ~ 24VDC	19 ~ 264VAC	.1 ~ 20A	Zero Cross	Z2253-ND◆	22.67	20.41	18.14	G3NA-220B-DC5-24
		100 ~ 120VAC	19 ~ 264VAC	.1 ~ 20A		Z2583-ND◆	28.88	25.99	23.10	G3NA-220B-AC100-120
		200 ~ 240VAC	19 ~ 264VAC	.1 ~ 20A		Z2584-ND◆	28.88	25.99	23.10	G3NA-220B-AC200-240
	SPST-NO	4 ~ 32VDC	19 ~ 264VAC	.1 ~ 25A	Zero Cross	Z921-ND◆	24.45	22.01	19.56	G3NA-225B-DC5-24
		75 ~ 132VAC	19 ~ 264VAC	.1 ~ 25A		Z922-ND◆	29.45	26.51	23.56	G3NA-225B-AC100-120
		150 ~ 264VAC	19 ~ 264VAC	.1 ~ 25A		Z923-ND	31.38	28.24	25.10	G3NA-225B-AC200-240
	SPST-NO	5 ~ 24VDC	180 ~ 528VAC	.1 ~ 25A	Zero Cross	Z170-ND	52.88	47.59	42.30	G3NA-425B-DC5-24
		100 ~ 120VAC	180 ~ 528VAC	.1 ~ 25A		Z171-ND	55.23	49.71	44.18	G3NA-425B-AC100-120

◆ ***RoHS Compliant***

Fig. 3 – G3S Series

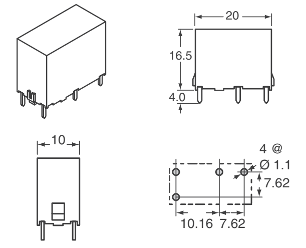

Fig. 4 – G3D Series

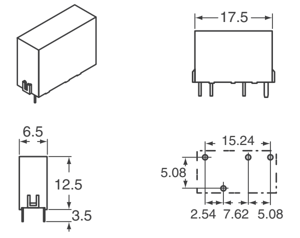

Fig. 5 — G3R Series

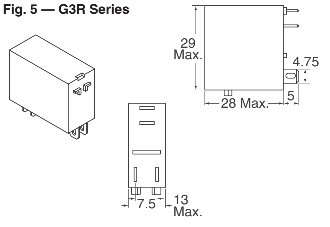

Features: • Input / Output Modules that have the same footprint as the G2R • Incorporating an easy-to-see monitoring indicator **Characteristic Data:** • Leakage Current: 5μA maximum • Operating Temperature: -30°C ~ 80°C • For socket use Z855-ND

Fig. 6 — G3TC Series

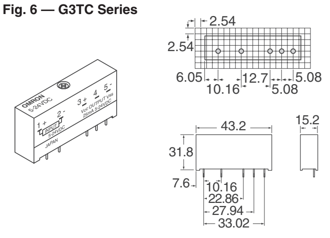

Features: • Standard sized I/O modules for replacement to OPT022, Continental and Gordos relays

Fig. 7 — G3NE Series

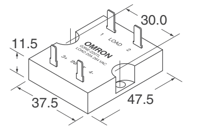

Features: • Ideal for panel mounted applications • Compact aluminum PCB and power elements used • Quick-connect #110 input terminals and #250 output connections

(Continued)

OMRON Power Solid State Relays *(Cont.)*

Fig.	Contact Form	Input Voltage	Output Voltage (Peak)	Output Current	Features	Digi-Key Part No.	Price Each			Omron Part No.
							1	25	50	
8	SPST-NO	5 ~ 24VDC	19 ~ 264VAC	.1 ~ 40A	Zero Cross	Z172-ND◆	38.08	34.27	30.46	G3NA-240B-DC5-24
		100 ~ 120VAC	19 ~ 264VAC	.1 ~ 40A		Z173-ND	42.83	38.55	34.26	G3NA-240B-AC100-240
		200 ~ 240VAC	19 ~ 264VAC	.1 ~ 40A		Z174-ND	42.43	38.19	33.94	G3NA-240B-AC200-240
	SPST-NO	100 ~ 120VAC	19 ~ 264VAC	.1 ~ 75A	Zero Cross	Z2068-ND	76.83	69.15	61.47	G3NA-275B-UTU-AC100-240
	SPST-NO	5 ~ 24VDC	19 ~ 264VAC	.1 ~ 90A	Zero Cross	Z2070-ND	110.33	99.30	88.27	G3NA-290B-UTU-DC5-24
		100 ~ 120VAC	19 ~ 264VAC	.1 ~ 90A		Z2069-ND	110.33	99.30	88.27	G3NA-290B-UTU-AC100-240
	SPST-NO	5 ~ 24VDC	180 ~ 528VAC	.2 ~ 20A	Zero Cross	Z2586-ND◆	49.20	44.28	39.36	G3NA-420B-DC5-24
		100 ~ 240VAC	180 ~ 528VAC	.2 ~ 20A		Z2585-ND◆	55.73	50.16	44.58	G3NA-420B-AC100-240
	SPST-NO	5 ~ 24VDC	180 ~ 528VAC	.2 ~ 40A	Zero Cross	Z2588-ND◆	65.20	58.68	52.16	G3NA-440B-DC5-24
		100 ~ 240VAC	180 ~ 528VAC	.2 ~ 40A		Z2587-ND◆	69.70	62.73	55.76	G3NA-440B-AC100-240
	SPST-NO	5 ~ 24VDC	19 ~ 440VAC	.1 ~ 75A	Zero Cross	Z2071-ND	89.64	80.68	71.72	G3NA-475B-UTU-DC5-24
		100 ~ 120VAC	19 ~ 440VAC	.1 ~ 75A		Z2072-ND	89.69	80.73	71.76	G3NA-475B-UTU-AC100-240
	SPST-NO	100 ~ 120VAC	19 ~ 440VAC	.1 ~ 90A	Zero Cross	Z2074-ND	98.18	88.36	78.55	G3NA-490B-UTU-AC100-240
G3NA-D2 Series										
8	SPST-NO	5 ~ 24VDC	4 ~ 220VDC	.1 ~ 10A	DC Type	Z168-ND	33.45	30.11	26.76	G3NA-D210B-DC5-24
		100 ~ 120VAC	4 ~ 220VDC	.1 ~ 10A		Z169-ND	34.83	31.35	27.86	G3NA-D210B-AC100-240
Accessories — RoHS Compliant										
9	Track Mount Heat Sink for up to 10A Relays (77 x 44mm)					Z924-ND	13.58	12.23	10.87	Y92B-N50
	Track Mount Heat Sink for 25A Relays (88.90 x 77mm)					Z925-ND	21.95	19.76	17.56	Y92B-N100
	Track Mount Heat Sink for 40A Relays (100 x 104mm)					Z926-ND	29.95	26.96	23.96	Y92B-N150
	Chassis Mount Heat Sink for 25A (100 x 100mm)					Z927-ND	14.70	13.23	11.76	Y92B-A100
	Chassis Mount Heat Sink for 40A (150 x 100.5mm)					Z928-ND	20.60	18.54	16.48	Y92B-A150N
—	Optional Din Rail Mount Bracket for use with G3NA Relays					Z2251-ND	18.75	16.88	15.00	R99-12 FOR G3NA

◆ *RoHS Compliant*

Fig. 8 — G3NA Series

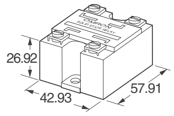

Features: Built-in varistor effectively absorbs external surges • Protective cover for greater safety is standard • Operation indicator (red LED) is standard
Characteristic Data: • Leakage Current: 5mA maximum (at 100VAC), 10mA maximum (at 200VAC) • Operating Temperature: -30°C ~ 80°C
UTU models are VDE approved

Fig. 9 — Accessories

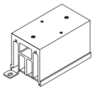

Omron heat sinks are designed to dissipate heat buildup during normal operation. Pretapped holes allow exact placement. Heat sink grease or a similar product should be used at the time of placement.

NEC / CEL California Eastern Laboratories OCMOS FET Solid State Relays

Fig.	V_{load} V	I_{load} mA	PD mW	Ron Ω	t_{on} ms	t_{off} ms	Output Type	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel	
										1	10	100		Qty.	Pricing
1	60	1800	560	0.2	3.0	1.0	1ch NO	Dip	PS710A-1AA-ND◆	6.90	6.21	5.29	—	—	—
1	60	1800	560	0.2	3.0	1.0	1ch NO	SMT	PS710AL-1AA-ND◆	6.53	5.88	5.01	—	—	—
1	60	2500	625	0.1	5.0	0.2	1ch NO	Dip	PS710B-1A-A-ND◆	7.83	7.05	6.00	—	—	—
1	60	2500	625	0.1	5.0	0.2	1ch NO	SMT	PS710BL-1A-ND◆	8.15	7.34	6.25	PS710BL-1ATR-ND◆	1,000	4199.00
1	80	2000	600	0.15	2.0	0.2	1ch NO	Dip	PS710E-1A-A-ND◆	7.88	7.09	6.04	—	—	—
1	80	2000	600	0.15	2.0	0.2	1ch NO	SMT	PS710EL-1A-ND◆	8.00	7.20	6.14	PS710EL-1ATR-ND◆	1,000	4134.00
1	100	350	560	2.5	3.0	0.2	1ch NO	Dip	PS7113-1AA-ND◆	3.65	3.29	2.80	—	—	—
1	100	350	560	2.5	3.0	0.2	1ch NO	SMT	PS7113L-1AA-ND◆	3.75	3.38	2.88	—	—	—
2	100	350	375	2.5	3.0	0.2	2ch NO	Dip	PS7113-2AA-ND◆	9.63	8.67	7.38	—	—	—
2	100	350	375	2.5	3.0	0.2	2ch NO	SMT	PS7113L-2AA-ND◆	5.33	4.80	4.09	—	—	—
1	250	200	560	8.0	1.5	0.2	1ch NO	Dip	PS7122A-1A-A-ND◆	5.25	4.73	4.03	—	—	—
1	250	200	560	8.0	1.5	0.2	1ch NO	SMT	PS7122AL-1A-ND◆	3.15	2.84	2.42	PS7122AL-1ATR-ND◆	1,000	1612.00
1	250	200	560	8.0	0.2	1.5	1ch NC	Dip	PS7122A-1B-A-ND◆	4.15	3.74	3.19	—	—	—
1	250	200	560	8.0	0.2	1.5	1ch NC	SMT	PS7122AL-1B-ND◆	3.28	2.95	2.52	PS7122AL-1BTR-ND◆	1,000	1586.00
2	250	200	375	8.0	1.5	0.2	2ch NO	Dip	PS7122A-2A-A-ND◆	5.83	5.25	4.47	—	—	—
2	250	200	375	8.0	1.5	0.2	2ch NO	SMT	PS7122AL-2A-ND◆	5.88	5.29	4.51	PS7122AL-2ATR-ND◆	1,000	3029.00
2	250	200	375	8.0	0.2	1.5	2ch NC	Dip	PS7122A-2B-A-ND◆	8.75	7.88	6.71	—	—	—
2	250	200	375	8.0	1.5/0.2	0.2/1.5	1a + 1b	Dip	PS7122A-1C-A-ND◆	6.20	5.58	4.76	—	—	—
1	400	150	560	30.0	1.0	0.2	1ch NO	Dip	PS7141-1AA-ND◆	2.50	2.25	1.92	—	—	—
1	400	150	560	24.0	0.02	0.2	1ch NC	Dip	PS7141-1BA-ND◆	3.23	2.91	2.48	—	—	—
2	400	150	375	24.0	0.02	0.2	1a & 1b	Dip	PS7141-1CA-ND◆	6.78	6.10	5.20	—	—	—
2	400	150	375	30.0	1.0	0.2	2ch NO	Dip	PS7141-2AA-ND◆	4.95	4.46	3.80	—	—	—
2	400	150	375	24.0	0.02	0.2	2ch NC	Dip	PS7141-2BA-ND◆	6.33	5.70	4.85	—	—	—
2	400	120	375	35.0	2.0	1.0	2ch NO	Dip	PS7141C-2A-A-ND◆	7.43	6.69	5.70	—	—	—
2	400	120	375	35.0	2.0	1.0	2ch NO	SMT	PS7141CL-2A-ND◆	7.48	6.73	5.74	PS7141CL-2ATR-ND◆	1,000	3081.00
1	400	120	240	50.0	1.0	0.2	1ch NO	Dip	PS7141E-1A-A-ND◆	2.10	1.75	1.48	—	—	—
1	400	120	240	50.0	1.0	0.2	1ch NO	SMT	PS7141EL-1A-ND◆	2.35	1.96	1.66	PS7141EL-1ATR-ND◆	1,000	1173.00
1	400	150	560	30.0	1.0	0.2	1ch NO	SMT	PS7141L-1AA-ND◆	2.22	2.00	1.71	—	—	—
1	400	150	560	24.0	0.02	0.2	1ch NC	SMT	PS7141L-1BA-ND◆	3.38	3.04	2.59	—	—	—
2	400	150	375	24.0	0.02	0.2	2ch NC	SMT	PS7141L-2BA-ND◆	5.00	4.50	3.84	—	—	—
1	400	200	560	10.0	5.0	0.2	1ch NO	Dip	PS7142-1AA-ND◆	3.10	2.79	2.38	—	—	—
1	400	200	560	12.0	0.2	5.0	1ch NC	Dip	PS7142-1B-A-ND◆	5.25	4.73	4.03	—	—	—
2	400	200	375	12.0	2.0	0.2	1a + 1b	SMT	PS7142-1C-A-ND◆	8.75	7.88	6.71	—	—	—
2	400	200	375	12.0	2.0	0.2	2ch NO	Dip	PS7142-2A-A-ND◆	8.30	7.47	6.37	—	—	—
1	400	200	560	10.0	5.0	0.2	1ch NO	SMT	PS7142L-1AA-ND◆	3.15	2.84	2.42	—	—	—
1	400	200	560	12.0	0.2	5.0	1ch NC	SMT	PS7142L-1B-ND◆	5.25	4.73	4.03	PS7142L-1BTR-ND◆	1,000	2301.00
2	400	200	375	12.0	2/0.2	0.2/2	1a + 1b	SMT	PS7142L-1C-ND◆	8.88	7.99	6.81	—	—	—
2	400	200	375	12.0	2.0	0.2	2ch NO	SMT	PS7142L-2A-ND◆	5.85	5.27	4.49	PS7142L-2ATR-ND◆	1,000	2652.00
1	600	90	560	50.0	1.5	0.2	1ch NO	Dip	PS7160-1AA-ND◆	4.80	4.32	3.68	—	—	—
2	600	90	375	50.0	1.5	0.2	2ch NO	Dip	PS7160-2AA-ND◆	10.45	9.41	8.02	—	—	—
2	600	90	375	50.0	1.5	0.2	2ch NO	SMT	PS7160L-2AA-ND◆	8.25	7.43	6.33	—	—	—
3	60	600	300	0.8	2.0	0.5	1ch NO	SOP	PS7206-1AA-ND◆	4.25	3.83	3.26	—	—	—
3	100	400	300	1.2	2.0	1.0	1ch NO	SOP	PS7214-1AA-ND◆	4.13	3.72	3.17	—	—	—
3	400	120	300	30.0	2.0	0.2	1ch NO	SOP	PS7241-1AA-ND◆	2.42	2.02	1.70	—	—	—
3	400	120	300	30.0	0.2	2.0	1ch NC	SOP	PS7241-1BA-ND◆	4.80	4.32	3.68	—	—	—
3	40	100	100	12.0	0.5	0.2	1ch NO	SOP	PS7200A-1AA-ND◆	5.38	4.84	4.13	PS7200A-1AATR-ND◆	3,500	2756.00/M
3	40	250	100	1.5	1.0	0.2	1ch NO	SOP	PS7200B-1AA-ND◆	6.65	5.99	5.10	PS7200B-1AATR-ND◆	3,500	3432.00/M
3	40	250	100	1.6	1.0	0.5	1ch NO	SOP	PS7200E-1AA-ND◆	8.40	7.56	6.44	PS7200E-1AATR-ND◆	900	3907.80
3	40	160	100	3.5	0.5	1.0	1ch NO	SOP	PS7200H-1AA-ND◆	7.55	6.80	5.79	PS7200H-1AATR-ND◆	3,500	3887.00/M
3	40	200	100	2.0	0.5	1.0	1ch NO	SOP	PS7200K-1AA-ND◆	7.55	6.80	5.79	PS7200K-1AATR-ND◆	3,500	3887.00/M
3	40	120	200	12.5	0.5	1.0	1ch NO	SOP	PS7200R-1AA-ND◆	4.35	3.92	3.34	PS7200R-1AATR-ND◆	3,500	2236.00/M
3	80	500	300	1.2	0.5	0.5	1ch NO	SOP	PS7205B-1A-ND◆	6.55	5.90	5.03	PS7205B-1ATR-ND◆	3,500	3380.00/M
3	400	120	300	30.0	2.0	0.2	1ch NO	SOP	PS7241-1A-F3-ACT-ND◆	2.03	1.70	1.44	PS7241-1A-F3-ATR-ND◆	3,500	881.40/M
2	400	120	180	30.0	1/0.2	0.2/1	1a + 1b	SOP	PS7241-1C-ND◆	11.03	9.93	8.46	PS7241-1CTR-ND◆	1,500	5707.00/M
2	400	120	180	30.0	1.0	0.2	2ch NO	SOP	PS7241-2AA-ND◆	8.75	7.88	6.71	PS7241-2AATR-ND◆	1,500	3614.00/M
2	400	120	180	30.0	0.2	1.0	2ch NC	SOP	PS7241-2B-ND◆	5.18	4.66	3.97	PS7241-2BTR-ND◆	1,500	2665.00/M
3	400	120	300	35.0	1.0	0.2	1ch NO	SOP	PS7241E-1A-ND◆	2.15	1.79	1.51	PS7241E-1ATR-ND◆	3,500	1087.50/M
1	400	150	560	10.0	2.0	0.2	1ch NO	Dip	PS7341-1A-ND	2.23	2.01	1.71	—	—	—
1	400	150	560	30.0	0.2	1.5	1ch NC	Dip	PS7341-1B-A-ND◆	3.93	3.54	3.01	—	—	—
1	400	120	560	35.0	1.0	1.0	1ch NO	Dip	PS7341C-1A-A-ND◆	3.73	3.36	2.86	—	—	—
1	400	120	560	35.0	1.0	1.0	1ch NO	SMT	PS7341CL-1ACT-ND◆	2.35	2.12	1.81	PS7341CL-1ATR-ND◆	1,000	1223.30
1	400	150	560	30.0	1.0	0.2	1ch NO	Dip	PS7341L-1A-A-ND◆	2.50	2.25	1.92	—	—	—
1	400	150	560	30.0	0.2	1.5	1ch NC	SMT	PS7341L-1B-ND◆	3.98	3.58	3.05	PS7341L-1BTR-ND◆	1,000	1430.00
1	600	90	560	50.0	2.0	0.2	1ch NO	Dip	PS7360-1AA-ND◆	5.25	4.73	4.03	—	—	—
1	600	90	560	50.0	2.0	0.2	1ch NO	SMT	PS7360L-1AA-ND◆	5.38	4.84	4.13	—	—	—
3	350	120	310	36.0	3.0	0.2	1ch NO	SOP	PS7431-1A-ND◆	3.83	3.45	2.94	PS7431-1ATR-ND◆	1,000	1963.00
3	40	100	250	14.0	0.5	1.0	1ch NO	Mini-Flat	PS7801-1ACT-ND◆	7.73	6.96	5.93	PS7801-1ATR-ND◆	3,500	4017.00/M
3	40	250	100	1.6	0.5	0.5	1ch NO	Mini-Flat	PS7802-1A-ND◆	8.75	7.88	6.71	PS7802-1ATR-ND◆	3,500	4186.00/M

◆ *RoHS Compliant*

Fig. 1

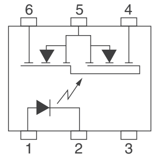

1. LED Anode
2. LED Cathode
3. NC
4. MOSFET Drain
5. MOSFET Source
6. MOSFET Drain

Fig. 2

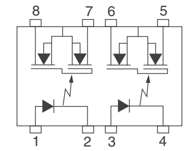

1. LED Anode
2. LED Cathode
3. LED Anode
4. LED Cathode
5. MOSFET
6. MOSFET
7. MOSFET
8. MOSFET

Fig. 3

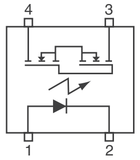

1. LED Anode
2. LED Cathode
3. MOSFET
4. MOSFET

crydom® PC Mount Solid State Relays

Fig. 1

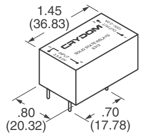

These solid state relays combine small size and high ratings in a PC-board-mounted SPST-NO design. Available with (S30 types) or without snubber network (S3 types), Series 3 is an ideal replacement for power reed relays in microprocessor or computer-based logic level systems. Designed for long, reliable service in demanding industrial environments.

Fig. 2

Series AO/ASO *Series DO/DMO* *Series SPA*

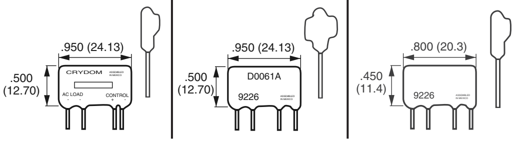

Series AO/ASO • SPST-NO miniature SIP solid state relays • Designed for switching highly inductive, low current loads such as solenoids. Also suitable for all loads up to 1.5A. R suffix are random turn-on versions.

Series DO/DMO • SPST DC bipolar transistor output relays in epoxy-coated packages utilize the popular .10" grid lead spacing. DMO063 is mosfet output rated at 3A/60VDC.

Fig. 3

Series D2W *Series CX - CMX*

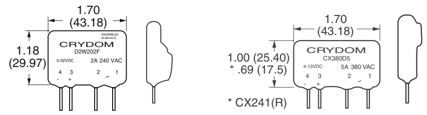

Series D2W • Printed Circuit Board Mounting • Features an epoxy-coated package for exceptional environmental protection. Pinouts are compatible with OAC type I/O modules.

Series CX - CMX • Ultra High Surge • Printed Circuit Board Mounting • SPST-NO relays achieve the highest power switching capability in a PC-mounted air-cooled package. Advanced features include exceptional steady state current, plus ultra-high surge ratings. New DC output SPST-NO solid state relays use MOSFET output for high switching capabilities in a PC-mount air-cooled package. Pinouts are compatible with Series 6 and OAC type I/O modules.

Fig. 4

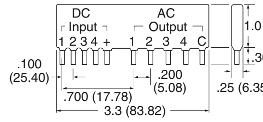

Series CTX - 4 Relay's in one Sip Package — Triac Output

CTX240D3Q offers four independently controlled SSR's in one compact PCB mount package. The CTX exhibits exceptional steady-state ratings utilizing highly efficient thermal management for increased cycle life. CTX240D3Q is a zero-cross type and the CTX240D3QR is a random turn-on:

1 section on: .1 - 6.0A	2 sections on: .1 - 4.0A
3 sections on: .1 - 3.0A	4 sections on: .1 - 2.5A

Fig. 5

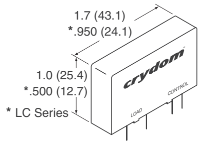

MCX and LC SIP SSR Relays

The MCX relays are 1.5A rated SPST-NO relays designed for switching highly inductive loads such as solenoids and motor loads. The LC series is a compact low cost series designed with a triac for general purpose switching applications. Both series available in zero-cross or random switching (phase controlled) versions (R suffix).

Fig. 6

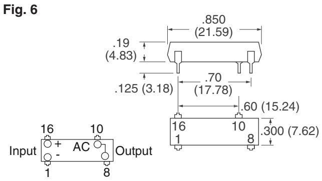

Series DPA/SDV/SDI Dip Relays — SCR Output

The series DPA is offered in your choice of voltage or current operated versions and are rated at 1A. The series SDV/SDI's are rated at 1.5A at ambient temperatures of 40˚C. Available in either zero-cross or random turn-on (R) versions and current or voltage operated (controlled) versions. SDV series are voltage controlled and SDI series are current controlled.

Fig. 7

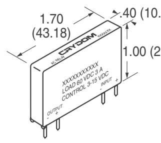

Series MP

This series is available in 3A ratings. All MP Series are SPST PC-mount relays that provide greater packaging density and are compatible with the pin out of Series 6 and OAC output modules. Internal snubber included for high dv/dt applications (AC).

Fig.	Circuitry	Input Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series 3 — DC Input, AC Output — RoHS Compliant									
1	SPST-NO	3.5~8VDC	20~140VAC	.02~3	CC1132-ND	31.54	27.60	25.24	S312
	SPST-NO	.5~8VDC	20~140VAC	.02~3	CC1133-ND	30.12	26.36	24.10	S3012A
	SPST-NO	3.5~8VDC	40~280VAC	.02~3	CC1134-ND	32.78	28.69	26.23	S3022A
Series AO — DC Input, AC Output — SCR Type — RoHS Compliant									
2	SPST-NO	4~10VDC	24~280VAC	.02~1.0	CC1049-ND	11.18	9.79	8.95	AO241
	SPST-NO	4~10VDC	24~280VAC	.02~1.0	CC1115-ND	11.18	9.79	8.95	AO241R
	SPST-NO	4~10VDC	12~280VAC	.02~1.5	CC1050-ND	11.18	9.79	8.95	ASO241
	SPST-NO	4~10VDC	12~280VAC	.02~1.5	CC1116-ND	11.18	9.79	8.95	ASO241R
	SPST-NO	4~10VDC	12~280VAC	.06~2.0	CC1336-ND	13.48	11.80	10.79	ASO242
	SPST-NO	4~10VDC	12~280VAC	.06~2.0	CC1337-ND	13.48	11.80	10.79	ASO242R
Series DO/DMO — DC Input, DC Output — Bipolar Type — RoHS Compliant									
2	SPST-NO	3~9VDC	3~60VDC	.02~1.0	CC1060-ND	10.12	8.86	8.10	DO061A
	SPST-NO	1.7~9VDC	3~60VDC	.02~1.0	CC1061-ND	10.12	8.86	8.10	DO061B
	SPST-NO	3~10VDC	0~60VDC	0~3	CC1139-ND	19.24	16.84	15.40	DMO063
Series DO — DC Input, DC Output — Normally Closed — RoHS Compliant									
2	SPST-NC	3~9VDC	3~60VDC	.02~1.0	CC1587-ND	10.12	8.86	8.10	DO061A-B
	SPST-NC	1.7~9VDC	3~60VDC	.02~1.0	CC1588-ND	10.12	8.86	8.10	DO061B-B
Series SPA — SIP Relays — SCR Output									
2	SPST-NO	10~35mA	20~140VAC	.025~1.0	CC1338-ND◆	10.22	8.95	8.18	SPA4191
	SPST-NO	10~35mA	20~280VAC	.025~1.0	CC1339-ND	11.18	9.79	8.95	SPA6191
Series D2W — DC Input, AC Output — Triac Type — RoHS Compliant									
3	SPST-NO	3~32VDC	24~280VAC	.06~2.0	CC1069-ND	10.92	9.56	8.74	D2W202F
	SPST-NO	3~32VDC	24~280VAC	.06~3.0	CC1118-ND	11.60	10.15	9.28	D2W203F
	SPST-NO	3~32VDC	24~280VAC	.06~3.5	CC1062-ND	12.26	10.73	9.81	D2W203F-11
Series CX/CMX — DC or AC Input, DC or AC Output									
3	SPST-NO	3~15VDC	12~280VAC	.06~5.0	CC1063-ND◆	13.58	11.89	10.87	CX240D5
	SPST-NO	15~32VDC	12~280VAC	.06~5.0	CC1064-ND◆	13.58	11.89	10.87	CXE240D5
	SPST-NO	3~15VDC	12~280VAC	.06~5.0	CC1119-ND	13.58	11.89	10.87	CX240D5R
	SPST-NO	3~15VDC	48~530VAC	.06~5.0	CC1597-ND◆	17.32	15.16	13.86	CX380D5R
	SPST-NO	15~32VDC	48~660VAC	.06~5.0	CC1598-ND◆	19.04	16.66	15.24	CX480D5R
	SPST-NO	3~15VDC	48~530VAC	.06~5.0	CC1599-ND◆	17.32	15.16	13.86	CXE380D5
	SPST-NO	90~140VAC	48~660VAC	.06~5.0	CC1596-ND◆	15.18	13.29	12.15	CX240A5R
	SPST-NO	4~10VDC	12~280VAC	.025~1.5	CC1600-ND◆	11.14	9.75	8.92	CX241
3	SPST-NO	4~10VDC	12~280VAC	.025~1.5	CC1601-ND◆	11.14	9.75	8.92	CX241R
	SPST-NO	4~13VDC	48~530VAC	.06~5.0	CC1120-ND	17.32	15.16	13.86	CX380D5
	SPST-NO	3~10VDC	0~100VDC	0~6.0	CC1124-ND◆	37.28	32.62	29.83	CMX100D6
	SPST-NO	3~10VDC	0~60VDC	0~10	CC1125-ND◆	37.28	32.62	29.83	CMX60D10
	SPST-NO	4~13VDC	48~660VAC	.06~5.0	CC1065-ND◆	19.04	16.66	15.24	CX480D5
	SPST-NO	15~32VDC	48~660VAC	.06~5.0	CC1066-ND	19.04	16.66	15.24	CXE480D5
	SPST-NO	90~140VAC	12~280VAC	.06~5.0	CC1332-ND	15.18	13.29	12.15	CX240A5
	SPST-NO	15~32VDC	12~280VAC	.06~5.0	CC1333-ND	15.18	13.29	12.15	CXE240D5
Series CTX — 4 Relays In One Sip Package — Triac Output — RoHS Compliant									
4	4PST-NO	4~10VDC	24~280VAC	.1~6.0	CC1140-ND	50.04	43.79	40.04	CTX240D3Q
	4PST-NO	4~10VDC	24~280VAC	.1~6.0	CC1141-ND	50.04	43.79	40.04	CTX240D3QR
Series MCX Relays — AC Output SIP — RoHS Compliant									
5	SPST-NO	4~10VDC	12~280VAC	.025~1.5	CC1551-ND	12.48	10.92	9.99	MCX241
	SPST-NO	4~10VDC	12~280VAC	.025~1.5	CC1552-ND	12.48	10.92	9.99	MCX241R
	SPST-NO	3~15VDC	12~280VAC	.06~5.0	CC1602-ND	13.58	11.89	10.87	MCX240D5
	SPST-NO	3~15VDC	12~280VAC	.06~5.0	CC1603-ND	13.58	11.89	10.87	MCX240D5R
	SPST-NO	4~15VDC	48~530VAC	.06~5.0	CC1604-ND	17.32	15.16	13.86	MCX380D5
	SPST-NO	4~15VDC	48~530VAC	.06~5.0	CC1605-ND	17.32	15.16	13.86	MCX380D5R
Series LC — AC Output Mini-SIP — Triac Output — RoHS Compliant									
5	SPST-NO	4~10VDC	12~280VAC	.025~1.5	CC1586-ND	9.50	8.32	7.60	LC241
	SPST-NO	4~10VDC	12~280VAC	.025~1.5	CC1585-ND	9.50	8.32	7.60	LC241R
Series DPA/SDV/SDI Dip Relays — SCR Output									
6	SPST-NO	10~35mA	20~140VAC	.025~1.0	CC1153-ND	10.74	9.40	8.60	DPA4111
	SPST-NO	3.5~10VDC	20~140VAC	.025~1.0	CC1154-ND◆	10.74	9.40	8.60	DPA4119
	SPST-NO	10~35mA	20~280VAC	.025~1.0	CC1155-ND◆	11.10	9.72	8.88	DPA6111
	SPST-NO	3.5~10VDC	20~280VAC	.025~1.0	CC1156-ND	11.10	9.72	8.88	DPA6119
	SPST-NO	3.5~10VDC	12~280VAC	.025~1.5	CC1157-ND◆	11.44	10.01	9.16	SDV2415
	SPST-NO	3.5~10VDC	12~280VAC	.025~1.5	CC1158-ND◆	11.44	10.01	9.16	SDV2415R
	SPST-NO	10~35mA	12~280VAC	.025~1.5	CC1159-ND◆	11.44	10.01	9.16	SDI2415
Series MP Relays — DC Input, DC or AC Output — RoHS Compliant									
7	SPST-NO	3~32VDC	12~140VAC	.02~3	CC1611-ND	21.06	18.43	16.85	MP120D3
	SPST-NO	3~32VDC	24~280VAC	.02~3	CC1612-ND	21.06	18.43	16.85	MP240D3
	SPST-NO	3~32VDC	3~60VDC	.02~3	CC1613-ND	22.50	19.69	18.00	MPDCD3
	SPST-NC	3~10VDC	0~60VDC	0~3	CC1589-ND	22.50	19.69	18.00	MPDCD3-B

◆ *RoHS Compliant*

crydom® Solid State Relays and Accessories

Fig. 1

PF Series

PowerFin™ series delivers the highest ratings of any single in-line package (SIP). The integral heat sink design can operate at 25 amps in forced air, or 10 amps with natural convection. R suffix versions are phase controlled output.

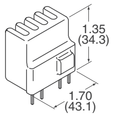

ASPF Series

ASPF SSR incorporates the PowerFin design with an integral heat sink on the compact Mini-SIP package. Rated at 3.0 AMPS up to 45°C, this SPST-NO AC output SSR is for applications where precise electrical power control is essential. Zero voltage or random switching (R suffix) versions are offered.

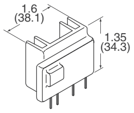

Fig. 2

Crydom's LS family of SPST-NO relays achieves the highest power switching capability in a PC-mounted air-cooled package. Output consists of an SCR AC switch and is available in zero-cross and random turn-on (suffix R).

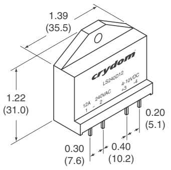

Fig. 3

Relays combine small size and high ratings in a package designed for easy heat sink or panel mounting. Standard .187 push-on terminals assure quick connection and are arranged to provide maximum isolation between signal and power circuits. Model S228C is a snubberless design for applications that require low off-state leakage.

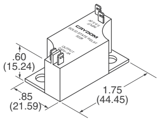

Fig. 4

Series CMD

CMD series uses standard box terminals for reliable long term connections and finger safe screws eliminates the need for a separate protective cover. A visual LED indicator allows circuit status on the relay. CMD series works with existing Crydom SSR heat sinks.

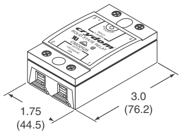

Fig. 5

Series PCV Analog Power Controller

The Series PCV Analog Input Power Controllers are 0-100% variable power controllers for 120 or 240VAC loads which vary with an analog input of 2 to 10VDC. The input and output are proportional by integrating a complete phase fired logic system and a solid state relay in the same package. Applications include heaters and lighting, motors and feeders, etc.

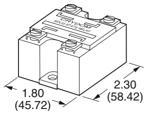

Fig. 6

Series DSD, DLD Time Delay Relay

These Delay-On time delay relays offer customers to externally adjust their delay time by selecting the value of the external customer supplied resistor. DSD are short time delays and DLD are longer time delay durations. Timing resistors should be 1/4 watt or higher.

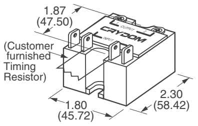

Typical Turn-On Delay For Various Timing Resistances

Resistor	Time (DSD)	Time (DLD)
0 (Short)	0.10 sec.	1.6 sec.
10KΩ	0.19 sec.	3.1 sec.
100KΩ	0.94 sec.	15 sec.
470KΩ	4.0 sec.	64 sec.
1.0MΩ	8.3 sec.	133 sec.

Fig. 7

The MCST series of controls is designed to provide adjustable surge reducing soft-start and soft-stop control for any load which would benefit from a gradual application/shut down and provide Crydom SSR switching within one package. Adjustable ramp times.

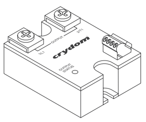

Fig. 8

Models SST120 and SST240 auxiliary function modules gradually apply power to the load when energized by the control voltage. Part sold complete with soft-start module and relay.

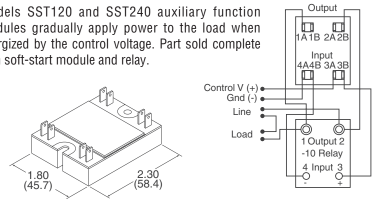

Fig. 9

RPC series proportional controllers provide a cost effective method of controlling power in many different applications such as heaters, universal motors or incandescent lamps. A customer provided potentiometer is all that is required for control.

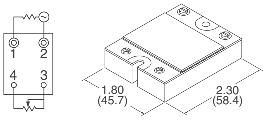

Fig. 10

Heatsinks with pre-tapped holes for SSR packages.

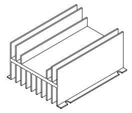

Fig.	Circuitry	Input Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series PF, ASPF, MPF – PowerFin™ — RoHS Compliant									
1	SPST-NO	4 ~ 10VDC	24 ~ 280VAC	.1 ~ 3	CC1334-ND	13.58	11.89	10.87	ASPF240D3
	SPST-NO	4 ~ 10VDC	24 ~ 280VAC	.1 ~ 3	CC1335-ND	13.58	11.89	10.87	ASPF240D3R
	SPST-NO	90 ~ 140VAC	12 ~ 280VAC	.06 ~ 10	CC1340-ND	26.84	23.49	21.48	PF240A25
	SPST-NO	90 ~ 140VAC	12 ~ 280VAC	0 ~ 25	CC1606-ND	26.84	23.49	21.48	PF240A25R
	SPST-NO	3 ~ 15VDC	12 ~ 280VAC	.06 ~ 10	CC1341-ND	24.80	21.70	19.84	PF240D25
	SPST-NO	3 ~ 15VDC	12 ~ 280VAC	0 ~ 25	CC1607-ND	24.80	21.70	19.84	PF240D25R
	SPST-NO	4 ~ 15VDC	48 ~ 530VAC	0 ~ 25	CC1608-ND	27.66	24.21	22.13	PF380D25
	SPST-NO	4 ~ 15VDC	48 ~ 530VAC	0 ~ 25	CC1609-ND	27.66	24.21	22.13	PF480D25
	SPST-NO	15 ~ 32VDC	12 ~ 280VAC	0 ~ 25	CC1610-ND	26.84	23.49	21.48	PFE240A25
	SPST-NO	15 ~ 32VDC	12 ~ 280VAC	.06 ~ 10	CC1342-ND	24.80	21.70	19.84	PFE240D25
	SPST-NO	4 ~ 10VDC	12 ~ 280VAC	0.1 ~ 4	CC1553-ND	14.20	12.43	11.36	MPF240D4
	SPST-NO	4 ~ 10VDC	12 ~ 280VAC	0.1 ~ 4	CC1554-ND	14.20	12.43	11.36	MPF240D4R
Series LS — RoHS Compliant									
2	SPST-NO	4.0 ~ 10VDC	24 ~ 280VAC	.15 ~ 8	CC1547-ND	18.32	16.03	14.66	LS240D8
	SPST-NO	4.0 ~ 10VDC	24 ~ 280VAC	.15 ~ 8	CC1548-ND	18.32	16.03	14.66	LS240D8R
	SPST-NO	4.0 ~ 10VDC	24 ~ 280VAC	.15 ~ 12	CC1549-ND	20.36	17.82	16.29	LS240D12
	SPST-NO	4.0 ~ 10VDC	24 ~ 280VAC	.15 ~ 12	CC1550-ND	20.36	17.82	16.29	LS240D12R
Series 2 — DC Input, AC Output — RoHS Compliant									
3	SPST-NO	3.5 ~ 8VDC	20 ~ 140VAC	.02 ~ 8	CC1129-ND	37.18	32.54	29.75	S218
	SPST-NO	3.5 ~ 8VDC	40 ~ 280VAC	.02 ~ 8	CC1130-ND	39.14	34.25	31.32	S228
	SPST-NO	3.5 ~ 8VDC	40 ~ 280VAC	.02 ~ 8	CC1131-ND	39.14	34.25	31.32	S228C
Series CMD — Cage Terminals — RoHS Compliant									
4	SPST-NO	3 ~ 32VDC	24 ~ 280VAC	0 ~ 25	CC1619-ND	44.28	38.75	35.43	CMD2425
	SPST-NO	3 ~ 32VDC	24 ~ 280VAC	0 ~ 50	CC1620-ND	51.10	44.72	40.88	CMD2450
	SPST-NO	3 ~ 32VDC	24 ~ 280VAC	0 ~ 75	CC1621-ND	79.46	69.53	63.57	CMD2475
	SPST-NO	3 ~ 32VDC	24 ~ 280VAC	0 ~ 90	CC1622-ND	87.10	76.22	69.68	CMD2490
	SPST-NO	3 ~ 32VDC	24 ~ 280VAC	0 ~ 25	CC1623-ND	55.20	48.30	44.16	CMD4825
	SPST-NO	3 ~ 32VDC	48 ~ 530VAC	0 ~ 50	CC1624-ND	60.66	53.08	48.53	CMD4850
	SPST-NO	3 ~ 32VDC	48 ~ 530VAC	0 ~ 75	CC1625-ND	93.40	81.73	74.72	CMD4875
	SPST-NO	3 ~ 32VDC	48 ~ 530VAC	0 ~ 90	CC1626-ND	94.70	82.87	75.76	CMD4890
Series PCV Analog Power Controller — RoHS Compliant									
5	0 ~ 100%	2 ~ 10VDC	100 ~ 240VAC	.15 ~ 15	CC1161-ND	95.58	83.64	76.47	10PCV2415
	0 ~ 100%	2 ~ 10VDC	100 ~ 240VAC	.15 ~ 25	CC1162-ND	105.84	92.61	84.68	10PCV2425
	0 ~ 100%	2 ~ 10VDC	100 ~ 240VAC	.15 ~ 40	CC1163-ND	124.96	109.34	99.97	10PCV2440

Fig.	Circuitry	Input Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series DSD, DLD Time Delay Relay — RoHS Compliant									
6	SPST-NO	3.5 ~ 15VDC	48 ~ 280VAC	.04 ~ 10	CC1174-ND	48.48	42.42	38.79	DSD2410
	SPST-NO	3.5 ~ 15VDC	48 ~ 280VAC	.04 ~ 25	CC1175-ND	50.02	43.77	40.02	DSD2425
	SPST-NO	3.5 ~ 15VDC	48 ~ 280VAC	.04 ~ 50	CC1176-ND	52.76	46.17	42.21	DSD2450
	SPST-NO	3.5 ~ 15VDC	48 ~ 280VAC	.04 ~ 10	CC1177-ND	48.48	42.42	38.79	DLD2410
	SPST-NO	3.5 ~ 15VDC	48 ~ 280VAC	.04 ~ 25	CC1178-ND	50.02	43.77	40.02	DLD2425
	SPST-NO	3.5 ~ 15VDC	48 ~ 280VAC	.04 ~ 50	CC1179-ND	52.76	46.17	42.21	DLD2450
MCST Series – Soft-Start Controller — RoHS Compliant									
7	SPST-NO	0 ~ 5VDC	48 ~ 140VAC	.15 ~ 25	CC1579-ND	83.82	73.35	67.06	MCST1225AS
	SPST-NO	0 ~ 5VDC	48 ~ 140VAC	.15 ~ 50	CC1580-ND	90.16	78.89	72.13	MCST1250AS
	SPST-NO	0 ~ 5VDC	48 ~ 140VAC	.15 ~ 90	CC1581-ND	109.28	95.62	87.43	MCST1290AS
	SPST-NO	0 ~ 5VDC	180 ~ 280VAC	.15 ~ 25	CC1582-ND	83.82	73.35	67.06	MCST2425AS
	SPST-NO	0 ~ 5VDC	180 ~ 280VAC	.15 ~ 50	CC1583-ND	90.16	78.89	72.13	MCST2450AS
	SPST-NO	0 ~ 5VDC	180 ~ 280VAC	.15 ~ 90	CC1584-ND	109.28	95.62	87.43	MCST2490AS
Series SST – Soft-Start Modules — RoHS Compliant									
8	SPST-NO	3.5 ~ 10VDC	90 ~ 140VAC	.04 ~ 10	CC1343-ND	75.84	66.36	60.68	10SST240
	SPST-NO	3.5 ~ 10VDC	90 ~ 140VAC	.04 ~ 25	CC1344-ND	76.38	66.84	61.11	25SST120
	SPST-NO	3.5 ~ 10VDC	90 ~ 140VAC	.04 ~ 50	CC1345-ND	79.76	69.79	63.81	40SST120

Fig.	Circuitry	Resistor (Ohms)	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series RPC – Potentiometer Power Control									
9	0 ~ 100%	150K (1W)	90 ~ 130VAC	15	CC1346-ND◆	71.78	62.81	57.43	RPC1215
	0 ~ 100%	150K (1W)	90 ~ 130VAC	25	CC1347-ND	92.86	81.26	74.29	RPC1225
	0 ~ 100%	150K (1W)	90 ~ 130VAC	40	CC1348-ND◆	126.66	110.83	101.33	RPC1240
	0 ~ 100%	1M (1/2W)	200 ~ 240VAC	15	CC1349-ND◆	78.42	68.62	62.74	RPC2415
	0 ~ 100%	1M (1/2W)	200 ~ 240VAC	25	CC1350-ND	97.16	85.02	77.73	RPC2425
	0 ~ 100%	1M (1/2W)	200 ~ 240VAC	40	CC1351-ND	135.12	118.23	108.10	RPC2440
Solid State Relay Accessories — RoHS Compliant									
10	Heatsink for Relays up to 10A (3.3 x 2.06") (8.38 x 5.23cm)				CC1113-ND	10.64	9.31	8.52	HS-1
	Heatsink for Relays up to 25A (3.3 x 4.1") (8.38 x 10.41cm)				CC1207-ND	15.60	13.65	12.48	HS-2
	Heatsink for Relays up to 75A (5.5 x 4.8") (13.97 x 12.19cm)				CC1208-ND	15.60	13.65	12.48	HE-54
	Heatsink for Relays up to 90A (6.0 x 6.0") (15.24 x 15.24cm)				CC1114-ND	109.00	95.38	87.20	HE-90
—	Replacement Hardware Kit (8 Pieces Total)				CC1646-ND	.36	.32	.29	420440
	Protective Cover for Series 1 Relays				CC1070-ND	3.42	3.00	2.74	KS-100
	Protective Cover for 53TP Series Relays				CC1171-ND	5.54	4.85	4.44	KS-300
	EMI Filters for 1 Phase Relay to Reduce Gen. Noise				CC1172-ND	11.76	10.29	9.41	1F25
	EMI Filters for 3 Phase Relay to Reduce Gen. Noise				CC1173-ND	26.62	23.30	21.30	3F20
	Thermal Pad Triple Phase				CC1643-ND	2.82	2.47	2.26	TP03
	Thermal Pad Single Phase				CC1644-ND	.90	.79	.72	TP01

◆ *RoHS Compliant*

Fig. 1

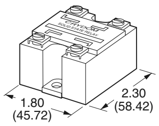

Series 1, HD, HA: • These SPST-NO relays deliver proven reliability in the most demanding applications. Output consists of an SCR AC switch, available in either zero voltage turn-on or random turn-on, phase controlled models. (-10 versions are phase controlled. Crydom part numbers ending in "B" are normally closed versions.)

Series T: • Industry Standard Package • Snubbers are included for high DV/DT applications and inductive loads, together with zero-voltage switching to reduce inrush currents and electrical noise.

Series H12: • High voltage relays use IC driven circuits for switching loads up to 660 VAC with 1200 Volts blocking standard.

Series 1-DC: • Low On-State Resistance • Paralleling Capability for Higher Currents • DC output relays feature MOSFET technology for low on-state resistance, assuring easy paralleling and switching capabilities to 40 amps at 100 VDC.

Series CS: • Low Leakage • SCR AC switch output models feature low off-state leakage (snubberless), zero-voltage switching and have a broadened operating range at both 120V/240VAC line voltages.

Fig. 2

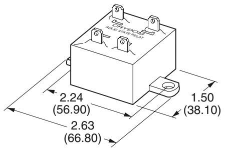

Series EZ: • Low Leakage • Quick Connect Terminals • Offers a low profile package with the convenience of quick connect terminals • 4000 Vrms opto-isolation and low off-state leakage are standard.

Fig. 3

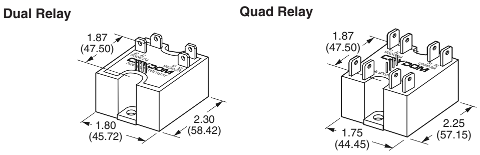

Two (Dual) or four (Quad) totally independent AC output relays come in a single standard panel-mount package. Utilizing an AC switch output with internal snubber, relays provide greater protection against false triggering. (-10 versions are phase controlled)

Fig. 4

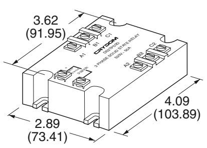

• SCR Output • AC or DC Control • LED Status Indicator Three-phase solid state relays switch up to 530 Vrms directly to loads such as motors, transformers, heating elements, etc. Models are available with either AC or DC input (coil). For heatsink use part number CC1114-ND.

Fig.	Circuitry	Input Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Crydom Part No.
Series 1 — DC Input, AC Output — SCR Type									
1	SPST-NO	3~32VDC	24~140VAC	.04~2.5	CC1000-ND◆	25.32	22.16	20.26	D1202
	SPST-NO	3~32VDC	24~140VAC	.04~10	CC1001-ND◆	37.42	32.75	29.94	D1210
	SPST-NO	3~32VDC	24~140VAC	.04~25	CC1002-ND◆	37.96	33.22	30.37	D1225
	SPST-NO	3~32VDC	24~140VAC	.04~40	CC1003-ND◆	41.34	36.18	33.08	D1240
	SPST-NO	3~32VDC	48~280VAC	.04~2.5	CC1004-ND◆	25.48	22.30	20.39	D2402
	SPST-NO	3~32VDC	48~280VAC	.04~10	CC1005-ND◆	38.34	33.55	30.68	D2410
	SPST-NO	3~32VDC	48~280VAC	.04~25	CC1006-ND◆	38.72	33.88	30.98	D2425
	SPST-NO	3~32VDC	48~280VAC	.04~40	CC1071-ND◆	43.82	38.35	35.06	D2440
	SPST-NO	3~32VDC	48~280VAC	.04~50	CC1007-ND◆	45.22	39.57	36.18	D2450
	SPST-NO	3~32VDC	48~280VAC	.04~75	CC1008-ND◆	72.26	63.23	57.81	D2475
	SPST-NO	3~32VDC	48~280VAC	.04~90	CC1067-ND◆	79.56	69.62	63.65	D2490
	SPST-NO	3~32VDC	48~280VAC	.04~110	CC1142-ND◆	77.92	68.18	62.34	D24110
	SPST-NO	3~32VDC	48~280VAC	.04~125	CC1143-ND◆	91.52	80.08	73.22	D24125
	SPST-NO	3~32VDC	80~530VAC	.04~25	CC1072-ND◆	49.40	43.23	39.52	D4825
	SPST-NO	3~32VDC	80~530VAC	.04~40	CC1073-ND◆	54.84	47.99	43.88	D4840
	SPST-NO	3~32VDC	80~530VAC	.04~50	CC1074-ND◆	54.84	47.99	43.88	D4850
	SPST-NO	3~32VDC	80~530VAC	.04~75	CC1075-ND	87.60	76.65	70.08	D4875
	SPST-NO	3~32VDC	80~530VAC	.04~90	CC1076-ND◆	88.90	77.79	71.12	D4890
	SPST-NC	3~32VDC	48~280VAC	.04~10	CC1088-ND◆	38.34	33.55	30.68	D2410B
	SPST-NC	3~32VDC	48~280VAC	.04~25	CC1089-ND◆	38.72	33.88	30.98	D2425B
	SPST-NC	3~32VDC	48~280VAC	.04~40	CC1090-ND◆	43.82	38.35	35.06	D2440B
	SPST-NO	3.5~26VDC	24~140VAC	.04~10	CC1077-ND◆	37.42	32.75	29.94	D1210-10
	SPST-NO	3.5~26VDC	24~140VAC	.04~40	CC1078-ND◆	41.34	36.18	33.08	D1240-10
	SPST-NO	3.5~26VDC	48~280VAC	.04~10	CC1079-ND◆	38.34	33.55	30.68	D2410-10
	SPST-NO	3.5~26VDC	48~280VAC	.04~25	CC1080-ND◆	38.72	33.88	30.98	D2425-10
	SPST-NO	3.5~26VDC	48~280VAC	.04~40	CC1081-ND	43.82	38.35	35.06	D2440-10
	SPST-NO	3.5~26VDC	48~280VAC	.04~50	CC1082-ND◆	45.22	39.57	36.18	D2450-10
	SPST-NO	3.5~26VDC	48~280VAC	.04~90	CC1083-ND◆	79.56	69.62	63.65	D2490-10
	SPST-NO	3.5~26VDC	80~530VAC	.04~40	CC1085-ND◆	54.84	47.99	43.88	D4840-10
	SPST-NO	3.5~26VDC	80~530VAC	.04~75	CC1086-ND◆	87.60	76.65	70.08	D4875-10
	SPST-NO	3.5~26VDC	80~530VAC	.04~90	CC1087-ND	88.90	77.79	71.12	D4890-10
Series 1 — AC Input, AC Output — SCR Type — RoHS Compliant									
1	SPST-NO	90~280VAC	24~140VAC	.04~25	CC1011-ND	39.36	34.44	31.49	A1225
	SPST-NO	90~280VAC	24~140VAC	.04~40	CC1012-ND	43.54	38.10	34.84	A1240
	SPST-NO	90~280VAC	48~280VAC	.04~10	CC1013-ND	40.56	35.49	32.45	A2410
	SPST-NO	90~280VAC	48~280VAC	.04~25	CC1014-ND	41.34	36.18	33.08	A2425
	SPST-NO	90~280VAC	48~280VAC	.04~50	CC1015-ND	46.80	40.95	37.44	A2450
	SPST-NO	18~36VAC	48~280VAC	.04~50	CC1068-ND	46.80	40.95	37.44	A2450-E
	SPST-NO	90~280VAC	48~280VAC	.04~75	CC1016-ND	75.38	65.96	60.31	A2475
	SPST-NO	90~280VAC	48~280VAC	.04~110	CC1144-ND	91.06	79.68	72.85	A24110
	SPST-NO	90~280VAC	48~280VAC	.04~125	CC1145-ND	95.02	83.15	76.02	A24125
	SPST-NO	90~280VAC	80~530VAC	.04~25	CC1092-ND	53.58	46.89	42.87	A4825
	SPST-NO	90~280VAC	80~530VAC	.04~40	CC1093-ND	59.88	52.40	47.91	A4840
	SPST-NO	90~280VAC	80~530VAC	.04~50	CC1094-ND	59.88	52.40	47.91	A4850
Series HD — DC Input, AC Output — SCR Type — RoHS Compliant									
1	SPST-NO	3~32VDC	80~530VAC	.04~12	CC1017-ND	47.82	41.85	38.26	HD4812
	SPST-NO	3~32VDC	80~530VAC	.04~25	CC1018-ND	50.64	44.31	40.52	HD4825
	SPST-NO	3~32VDC	80~530VAC	.04~50	CC1019-ND	56.20	49.18	44.96	HD4850
	SPST-NO	3~32VDC	80~530VAC	.04~50	CC1096-ND	56.20	49.18	44.96	HD4850-10
	SPST-NO	3~32VDC	80~530VAC	.04~75	CC1020-ND	89.78	78.56	71.83	HD4875
	SPST-NO	3~32VDC	80~530VAC	.04~90	CC1021-ND	91.12	79.73	72.90	HD4890
	SPST-NO	3~32VDC	80~530VAC	.04~110	CC1146-ND	98.88	86.52	79.11	HD48110
	SPST-NO	3~32VDC	80~530VAC	.04~125	CC1147-ND	104.72	91.63	83.78	HD48125
	SPST-NO	3~32VDC	48~660VAC	.04~50	CC1098-ND	57.60	50.40	46.08	HD6050
	SPST-NO	3~32VDC	48~660VAC	.04~90	CC1099-ND	93.32	81.66	74.66	HD6090
	SPST-NO	3~32VDC	48~660VAC	.04~125	CC1100-ND	106.26	92.98	85.01	HD60125
Series HA — AC Input, AC Output — SCR Type — RoHS Compliant									
1	SPST-NO	90~280VAC	80~530VAC	.04~25	CC1022-ND	54.92	48.06	43.94	HA4825
	SPST-NO	90~280VAC	80~530VAC	.04~50	CC1023-ND	61.40	53.73	49.12	HA4850
	SPST-NO	90~280VAC	80~530VAC	.04~75	CC1024-ND	91.42	80.00	73.14	HA4875
	SPST-NO	90~280VAC	80~530VAC	.04~90	CC1025-ND	95.38	83.46	76.31	HA4890
	SPST-NO	90~280VAC	80~530VAC	.04~110	CC1148-ND	103.82	90.85	83.06	HA48110
	SPST-NO	90~280VAC	48~660VAC	.04~25	CC1101-ND	56.40	49.35	45.12	HA6025
	SPST-NO	90~280VAC	48~660VAC	.04~50	CC1102-ND	64.46	56.41	51.57	HA6050
	SPST-NO	90~280VAC	48~660VAC	.04~90	CC1103-ND	97.04	84.91	77.64	HA6090
	SPST-NO	90~280VAC	48~660VAC	.04~125	CC1104-ND	108.44	94.89	86.76	HA60125
Series H12 — DC Input, AC Output — SCR Type — RoHS Compliant									
1	SPST-NO	4~32VDC	48~660VAC	.04~50	CC1032-ND	53.62	46.92	42.90	H12WD4850
	SPST-NO	4~32VDC	48~660VAC	.04~90	CC1033-ND	69.80	61.08	55.84	H12WD4890
1	SPST-NO	4~32VDC	48~530VAC	.04~50	CC1105-ND	51.34	44.93	41.08	H12D4850
	SPST-NO	4~32VDC	48~530VAC	.04~90	CC1106-ND	65.86	57.63	52.69	H12D4890
Series H12 — AC Input, AC Output — SCR Type — RoHS Compliant									
1	SPST-NO	90~140VAC	48~660VAC	.04~50	CC1034-ND	57.90	50.67	46.32	H12CA4850
	SPST-NO	90~140VAC	48~660VAC	.04~90	CC1035-ND	88.70	77.62	70.96	H12CA4890
Series T — DC Input, AC Output — Triac Type — RoHS Compliant									
1	SPST-NO	3~32VDC	24~140VAC	.05~10	CC1026-ND	37.40	32.73	29.92	TD1210
	SPST-NO	3~32VDC	24~140VAC	.05~25	CC1027-ND	37.96	33.22	30.37	TD1225
	SPST-NO	3~32VDC	48~280VAC	.05~10	CC1028-ND	38.34	33.55	30.68	TD2410
	SPST-NO	3~32VDC	48~280VAC	.05~25	CC1029-ND	38.72	33.88	30.98	TD2425
Series T — AC Input, AC Output — Triac Type — RoHS Compliant									
1	SPST-NO	90~280VAC	24~140VAC	.05~10	CC1107-ND	38.62	33.80	30.90	TA1210
	SPST-NO	90~280VAC	24~140VAC	.05~25	CC1030-ND	39.36	34.44	31.49	TA1225
	SPST-NO	90~280VAC	48~280VAC	.05~10	CC1108-ND	40.56	35.49	32.45	TA2410
	SPST-NO	90~280VAC	48~280VAC	.05~25	CC1031-ND	41.34	36.18	33.08	TA2425
Series DC60 — DC or AC Input, DC Output — Bipolar Type — RoHS Compliant									
1	SPST-NO	3~32VDC	3~60VDC	.02~3	CC1126-ND	16.64	14.56	13.32	DC60S3
	SPST-NO	3~32VDC	3~60VDC	.02~5	CC1127-ND	26.10	22.84	20.88	DC60S5
	SPST-NO	3~32VDC	3~60VDC	.02~7	CC1128-ND	32.60	28.53	26.08	DC60S7
	SPST-NO	90~280VAC	3~60VDC	.02~3	CC1150-ND	19.24	16.84	15.40	DC60SA3
	SPST-NO	90~280VAC	3~60VDC	.02~5	CC1151-ND	28.72	25.13	22.98	DC60SA5
	SPST-NO	90~280VAC	3~60VDC	.02~7	CC1152-ND	35.22	30.82	28.18	DC60SA7
Series DC60 — DC or AC Input, DC Output — Normally Closed Type — RoHS Compliant									
1	SPST-NC	35~32VDC	3~60VDC	.02~3	CC1590-ND	16.64	14.56	13.32	DC60S3-B
	SPST-NC	35~32VDC	3~60VDC	.02~5	CC1591-ND	26.10	22.84	20.88	DC60S5-B
	SPST-NC	35~32VDC	3~60VDC	.02~7	CC1592-ND	32.60	28.53	26.08	DC60S7-B
	SPST-NC	90~280VAC	3~60VDC	.02~3	CC1593-ND	19.24	16.84	15.40	DC60SA3-B
	SPST-NC	90~280VAC	3~60VDC	.02~5	CC1594-ND	28.72	25.13	22.98	DC60SA5-B
	SPST-NC	90~280VAC	3~60VDC	.02~7	CC1595-ND	35.22	30.82	28.18	DC60SA7-B
Series 1 DC — DC Input, DC Output — MOSFET Type — RoHS Compliant									
1	SPST-NO	3.5~32VDC	0~100VDC	0~7	CC1036-ND	55.38	48.46	44.31	D1D07
	SPST-NO	3.5~32VDC	0~100VDC	0~12	CC1037-ND	61.18	53.54	48.95	D1D12
	SPST-NO	3.5~32VDC	0~100VDC	0~20	CC1038-ND	67.06	58.68	53.65	D1D20
	SPST-NO	3.5~32VDC	0~100VDC	0~40	CC1039-ND	83.30	72.89	66.64	D1D40
	SPST-NO	3.5~32VDC	0~200VDC	0~7	CC1040-ND	63.94	55.95	51.16	D2D07
	SPST-NO	3.5~32VDC	0~200VDC	0~12	CC1041-ND	73.70	64.49	58.96	D2D12
	SPST-NO	3.5~32VDC	0~400VDC	0~7	CC1042-ND	75.12	65.73	60.10	D4D07
	SPST-NO	3.5~32VDC	0~400VDC	0~12	CC1109-ND	101.22	88.57	80.98	D4D12
	SPST-NO	3.5~32VDC	0~60VDC	.005~100	CC1520-ND	148.12	129.61	118.50	D06D100
	SPST-NO	3.5~32VDC	0~60VDC	.005~60	CC1521-ND	93.36	81.69	74.69	D06D60
	SPST-NO	3.5~32VDC	0~60VDC	.005~80	CC1522-ND	117.50	102.82	94.00	D06D80
Series CS — DC Input, AC Output — SCR Type — RoHS Compliant									
1	SPST-NO	3.5~15VDC	24~280VAC	.1~10	CC1043-ND	31.56	27.62	25.25	CSD2410
	SPST-NO	3.5~15VDC	24~280VAC	.1~25	CC1044-ND	38.66	33.83	30.93	CSD2425
	SPST-NO	3.5~15VDC	24~280VAC	.1~50	CC1045-ND	45.44	39.76	36.36	CSD2450
	SPST-NO	15~32VDC	24~280VAC	.1~10	CC1110-ND	31.56	27.62	25.25	CSE2410
	SPST-NO	15~32VDC	24~280VAC	.1~25	CC1111-ND	38.66	33.83	30.93	CSE2425
Series EZ — DC Input, AC Output — SCR Type — RoHS Compliant									
2	SPST-NO	4~15VDC	24~280VAC	.06~12	CC1047-ND	20.52	17.96	16.42	EZ240D12
	SPST-NO	4~15VDC	24~280VAC	.06~18	CC1048-ND	26.38	23.09	21.11	EZ240D18
Dual — DC Input, AC Output — SCR Type — RoHS Compliant									
3	SPST-NO	4~15VDC	24~280VAC	.05~25	CC1121-ND	69.68	60.97	55.75	D2425D
	SPST-NO	4~15VDC	24~280VAC	.05~40	CC1122-ND	78.88	69.02	63.11	D2440D
	SPST-NO	4~15VDC	24~280VAC	.05~25	CC1614-ND	69.68	60.97	55.75	D2425D-10
	SPST-NO	4~15VDC	24~280VAC	.05~40	CC1615-ND	78.88	69.02	63.11	D2440D-10
	SPST-NO	4~15VDC	48~530VAC	.04~25	CC1616-ND	88.84	77.74	71.08	H12D4825D
	SPST-NO	4~15VDC	48~530VAC	.04~40	CC1617-ND	95.70	83.74	76.56	H12D4840D
	SPST-NO	4~15VDC	48~530VAC	.04~40	CC1618-ND	95.70	83.74	76.56	H12D4840D-10
Quad — DC Input, AC Output — SCR Type — RoHS Compliant									
3	SPST-NO	4~15VDC	24~280VAC	.05~20	CC1123-ND	115.44	101.01	92.36	TD2420Q
Series 53TP — DC or AC Input — SCR Type (for 3 Phase applications) — RoHS Compliant									
4	3 PHASE	3~32VDC	48~530VAC	.05~25	CC1135-ND	155.20	135.80	124.16	D53TP25D
	3 PHASE	3~32VDC	48~530VAC	.05~50	CC1136-ND	169.84	148.61	135.88	D53TP50D
	3 PHASE	90~280VAC	48~530VAC	.05~25	CC1137-ND	161.88	141.65	129.51	A53TP25D
	3 PHASE	90~280VAC	48~530VAC	.05~50	CC1138-ND	176.50	154.44	141.20	A53PT50D

◆ ***RoHS Compliant***

I/O Modules

Standard

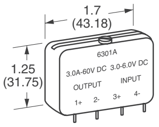

Mini

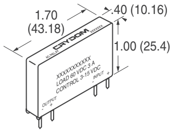

Series IAC, IDC, OAC, ODC

• Opto-Isolated • Solid state I/O switching modules deliver an electrically clean, photo-isolated, noise free "output" interface from logic level control systems to external loads such as motors, valves, solenoids, etc. DMP versions are epoxy conformal coated for fast heat transfer.

Series 6

Series 6 buffered output modules contain additional internal amplification to reduce drive requirements to a level suitable for the Mos devices used in many microprocessor systems. Models are available with either inverting or no-inverting inputs, for 5 and 15 volt logic.

Input Voltage	Input I (mA)	Output Current	@	Output Voltage	Turn On Time	Turn Off Time	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
I/O Modules — 5VDC System Voltage											
90 ~ 140VAC	7	.1 ~ 100mA		.4 ~ 30VDC	20ms	20ms	CC1200-ND	12.82	11.22	10.26	IAC-5
180 ~ 280VAC	5	.1 ~ 100mA		.4 ~ 30VDC	20ms	20ms	CC1201-ND	13.10	11.47	10.48	IAC-5A
10 ~ 36VDC	8	.1 ~ 100mA		.4 ~ 30VDC	5ms	5ms	CC1202-ND	12.82	11.22	10.26	IDC-5
3 ~ 6VDC	19	.02 ~ 3A		12 ~ 140VAC	.5 cycle	.5 cycle	CC1203-ND	12.82	11.22	10.26	OAC-5
3 ~ 6VDC	19	.02 ~ 3A		24 ~ 280VAC	.5 cycle	.5 cycle	CC1204-ND	13.24	11.59	10.60	OAC-5A
3 ~ 6VDC	14	.02 ~ 3A		5 ~ 60VDC	.3ms	.3ms	CC1205-ND	12.82	11.22	10.26	ODC-5
3 ~ 6VDC	3	.02 ~ 3A		5 ~ 60VDC	.5ms	.5ms	CC1237-ND	15.56	13.62	12.45	DMP6301A
3 ~ 6VDC	4	.02 ~ 3A		24 ~ 280VAC	.5 cycle	.5 cycle	CC1238-ND	16.64	14.56	13.32	DMP6402A
I/O Modules — 15VDC System Voltage											
90 ~ 140VAC	7	.1 ~ 100mA		.4 ~ 30VDC	20ms	20ms	CC1210-ND	15.06	13.18	12.05	IAC-15
9 ~ 18VDC	20	.02 ~ 3A		12 ~ 140VAC	.5 cycle	.5 cycle	CC1212-ND	15.96	13.97	12.77	OAC-15
9 ~ 18VDC	14	.02 ~ 3A		5 ~ 60VDC	.3ms	.3ms	CC1213-ND	17.62	15.42	14.10	ODC-15
I/O Modules — 24VDC System Voltage											
90 ~ 140VAC	7	.1 ~ 100mA		4 ~ 30VDC	20ms	20ms	CC1214-ND	15.06	13.18	12.05	IAC-24
10 ~ 36VDC	8	.1 ~ 100mA		.4 ~ 30VDC	5ms	5ms	CC1215-ND	15.06	13.18	12.05	IDC-24
18 ~ 28VDC	10	.02 ~ 3A		12 ~ 140VAC	.5 cycle	.5 cycle	CC1216-ND	15.50	13.57	12.40	OAC-24
18 ~ 28VDC	10	.02 ~ 3A		5 ~ 60VDC	.3ms	.3ms	CC1217-ND	17.62	15.42	14.10	ODC-24
Series 6 — AC & DC Buffered Modules											
0 ~ .8VDC	100µA	.02 ~ 3A		3 ~ 60VDC	100µS	100µS	CC1239-ND	26.12	22.86	20.90	6311
2.4 ~ 6VDC	250µA	.02 ~ 3.5A		3 ~ 60VDC	100µS	100µS	CC1240-ND	25.44	22.26	20.36	6321

Input Voltage	Input I (mA)	Output Current	@	Output Voltage	Turn On Time	Turn Off Time	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series 6 — AC & DC Buffered Modules											
0 ~ .8VDC	100µA	.02 ~ 3.5A		24 ~ 280VAC	.5 cycle	.5 cycle	CC1242-ND	26.84	23.49	21.48	6412
2.4 ~ 6VDC	250µA	.02 ~ 3.5A		12 ~ 140VAC	.5 cycle	.5 cycle	CC1243-ND	25.44	22.26	20.36	6421
Mounting Board for 4-pos. Std. I/O (Neg. Logic) Modules Screw Term.							CC1206-ND	43.84	38.36	35.08	PB-4
Mnt. Brd. for 4-pos. Std. I/O Modules (Neg. or Pos. Logic) Screw Term.							CC1218-ND	43.84	38.36	35.08	PB-4R
Mounting Board for 8-pos. Std. I/O Modules (Card Edge Conn.)							CC1219-ND	70.20	61.43	56.16	PB-8
Mounting Board for 16-pos. Std. I/O Modules (Screw Term.)							CC1220-ND	132.98	116.36	106.39	PB-16T
Mounting Board for 16-pos. Std. I/O Modules (Card Edge Conn.)							CC1221-ND	155.36	135.94	124.29	PB-16A
Mini I/O Module — 5VDC System Voltage											
90 ~ 140VAC	7	.1 ~ 100mA		.4 ~ 30VDC	20ms	20ms	CC1222-ND	12.82	11.22	10.26	MIAC-5
10 ~ 36VDC	8	.1 ~ 100mA		.4 ~ 30VDC	5ms	5ms	CC1223-ND	12.82	11.22	10.26	MIDC-5
3 ~ 6VDC	19	.02 ~ 3A		12 ~ 140VAC	.5 cycle	.5 cycle	CC1224-ND	12.82	11.22	10.26	MOAC-5
3 ~ 6VDC	19	.02 ~ 3A		24 ~ 280VAC	.5 cycle	.5 cycle	CC1225-ND	13.24	11.59	10.60	MOAC-5A
3 ~ 6VDC	14	.02 ~ 3A		5 ~ 60VDC	.3ms	.3ms	CC1226-ND	12.82	11.22	10.26	MODC-5
Mini I/O Module — 24VDC System Voltage											
10 ~ 36VDC	8	.1 ~ 100mA		.4 ~ 30VDC	5ms	5ms	CC1227-ND	15.06	13.18	12.05	MIDC-24
18 ~ 28VDC	15	.02 ~ 3A		12 ~ 140VAC	.5 cycle	.5 cycle	CC1228-ND	15.50	13.57	12.40	MOAC-24
18 ~ 28VDC	10	.02 ~ 3A		5 ~ 60VDC	.3ms	.3ms	CC1229-ND	17.62	15.42	14.10	MODC-24
Mounting Board for 4-pos. Mini I/O Modules (Screw Term.)							CC1230-ND	49.54	43.35	39.64	MS-4
Mounting Board for 8-pos. Mini I/O Modules (Card Edge Conn.)							CC1231-ND	96.74	84.65	77.40	MS-8H
Mounting Board for 16-pos. Mini I/O Modules (Card Edge Conn.)							CC1232-ND	176.88	154.77	141.51	MS-16H
Mounting Board for 24-pos. Mini I/O Modules (Card Edge Conn.)							CC1233-ND	299.20	261.80	239.36	MS-24H

Solid State Relays

Fig. 1

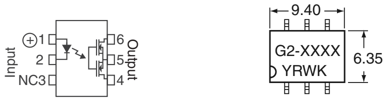

6-SOP

Fig. 2

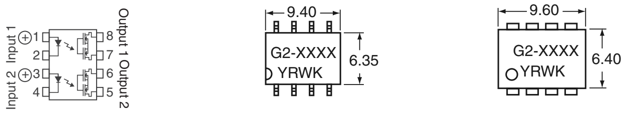

8-SOP

8-Dip

Crydom's G2 series of SSR's feature extremely low RDSon, low leakage and long lifetimes. Crydom's SSR's typically comprise an optical coupler, the output of which either drives the line directly or is used to switch a high-power device, such as a silicon-controlled rectifier (SCR) or thyristor. Whatever the drive component, it's the optical-isolation and no-moving-part aspects of the device that grant its many performance features. These features include high I/O isolation (though leakage current is a problem), long life (measured in millions of cycles), low acoustic noise, no contact bounce/arcing, mechanical ruggedness, and low drive-current requirements. They are available in tube packaging for small quantities and prototype work. Tape and reel packaging for automated insertion equipment.

Fig.	Contact	Input Voltage	Input I (mA)	Switch Voltage	Switch I (mA)	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Crydom Part No.	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Crydom Part No.
G2 Series Solid State Mosfet															
1	SPST-NC	1.4V	10 ~ 30	350V	330	6-SOP	CC1311CT-ND	3.03	2.75	2.20	G2-1B01-ST	CC1311TR-ND	2,000	1502.55/M	G2-1B01-SR
G2 Series Multi-output Solid State															
2	DPST-NO	1.4V	15 ~ 40	15V	150	8-Dip	CC1314-ND*	6.19	5.63	4.50	G2-2A03-TT	—	—	—	—
	DPST-NO	1.4V	15 ~ 40	15V	150	8-SOP	CC1315-ND*	6.19	5.63	4.50	G2-2A03-ST	—	—	—	—
	DPST-O/C	1.4V	10 ~ 30	400V	110	8-Dip	CC1316-ND*	5.23	4.75	3.80	G2-AB01-TT	—	—	—	—
	DPST-O/C	1.4V	10 ~ 30	250V	150	8-SOP	CC1319CT-ND	5.23	4.75	3.80	G2-AB02-ST	CC1319TR-ND	2,000	2605.50/M	G2-AB02-SR
	DPST-NO	1.4V	10 ~ 30	400V	110	8-SOP	CC1321CT-ND	4.95	4.50	3.60	G2-DA01-ST	—	—	—	—
	DPST-NO	1.4V	10 ~ 30	250V	125	8-SOP	CC1327CT-ND	4.95	4.50	3.60	G2-DA06-ST	CC1327TR-ND	2,000	2470.50/M	G2-DA06-SR
	DPST-NC	1.4V	10 ~ 30	350V	120	8-Dip	CC1328-ND*	5.36	4.88	3.90	G2-DB01-TT	—	—	—	—
	DPST-NC	1.4V	10 ~ 30	350V	120	8-SOP	CC1329CT-ND	5.36	4.88	3.90	G2-DB01-ST	CC1329TR-ND	2,000	2673.00/M	G2-DB01-SR
	DPST-NC	1.4V	10 ~ 30	250V	140	8-Dip	CC1330-ND*	5.36	4.88	3.90	G2-DB02-TT	—	—	—	—
	DPST-NC	1.4V	10 ~ 30	250V	140	8-SOP	CC1331CT-ND	5.36	4.88	3.90	G2-DB02-ST	CC1331TR-ND	2,000	2673.00/M	G2-DB02-SR

* Tube

CKR Series DIN Rail with Integrated Heatsink

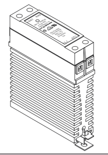

The Series CKR Solid State Relays utilize Crydom's proprietary thermal management technology providing a compact and efficient design. Built-in DIN Rail attachment, easy-to-use box clamp type terminals and integral heat sinking complete the package. This compact new design offers up to 30Arms in ambient temperatures of 25°C.

Input Voltage	Operate Voltage	Release Voltage	Output Voltage (VAC)	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Zero Cross Versions									
4.5 ~ 32VDC	4.5VDC	1.0VDC	24 ~ 280	.15 ~ 10	CC1517-ND	46.26	40.48	37.01	CKRD2410
4.5 ~ 32VDC	4.5VDC	1.0VDC	24 ~ 280	.15 ~ 20	CC1518-ND	49.50	43.32	39.60	CKRD2420
4.5 ~ 32VDC	4.5VDC	1.0VDC	24 ~ 280	.15 ~ 30	CC1519-ND	52.78	46.19	42.23	CKRD2430
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 10	CC1512-ND	49.48	43.30	39.59	CKRA2410
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 20	CC1513-ND	56.50	49.44	45.20	CKRA2420
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 30	CC1514-ND	60.36	52.82	48.29	CKRA2430
90 ~ 280VAC	90VAC	10VAC	48 ~ 530	.15 ~ 10	CC1515-ND	58.24	50.96	46.60	CKRA4810
90 ~ 280VAC	90VAC	10VAC	48 ~ 530	.15 ~ 20	CC1516-ND	62.34	54.55	49.88	CKRA4820

Input Voltage	Operate Voltage	Release Voltage	Output Voltage (VAC)	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Phase Controlled Versions									
4.5 ~ 32VDC	4.5VDC	1.0VDC	24 ~ 280	.15 ~ 10	CC1528-ND	46.26	40.48	37.01	CKRD2410-10
4.5 ~ 32VDC	4.5VDC	1.0VDC	24 ~ 280	.15 ~ 20	CC1529-ND	49.50	43.32	39.60	CKRD2420-10
4.5 ~ 32VDC	4.5VDC	1.0VDC	24 ~ 280	.15 ~ 30	CC1530-ND	52.78	46.19	42.23	CKRD2430-10
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 10	CC1523-ND	49.48	43.30	39.59	CKRA2410-10
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 20	CC1524-ND	56.50	49.44	45.20	CKRA2420-10
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 30	CC1525-ND	60.36	52.82	48.29	CKRA2430-10
90 ~ 280VAC	90VAC	10VAC	48 ~ 530	.15 ~ 10	CC1526-ND	58.24	50.96	46.60	CKRA4810-10
90 ~ 280VAC	90VAC	10VAC	48 ~ 530	.15 ~ 20	CC1527-ND	62.34	54.55	49.88	CKRA4820-10

MS11 Series DIN Rail Mount

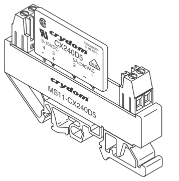

Input Voltage	Operate Voltage	Release Voltage	Output Voltage	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
5 ~ 10VDC	5VDC	1.0VDC	0 ~ 60VDC	0 ~ 5	CC1558-ND◆	51.50	45.07	41.20	MS11-CMX60D5
5 ~ 10VDC	5VDC	1.0VDC	0 ~ 60VDC	0 ~ 10	CC1557-ND◆	56.00	49.00	44.80	MS11-CMX60D10
5 ~ 10VDC	5VDC	1.0VDC	12 ~ 280VAC	0 ~ 5	CC1559-ND◆	34.86	30.51	27.89	MS11-CX240D5
15 ~ 32VDC	5VDC	1.0VDC	12 ~ 280VAC	0 ~ 5	CC1560-ND	34.86	30.51	27.89	MS11-CME240D5

◆ ***RoHS Compliant***

MCTC SSR Temperature

The Crydom MCTC is a unique self-contained state of the art basic temperature controller that combines all the necessary functions into one easy to set up and use standard size package. The MCTC is ideal for temperture control users that do not need multiple built-in options, displays and functions that they will never use. The unit incorporates an internally compensated thermocouple input (J or K), available temperature range of 100°F ~ 500°F, with adjustable set point using analog voltage of 0 ~ 5VDC. With integrated zerocross burst firing, and proportional derivative control to avoid set-point overshoot, the unit also includes 2 LED status indicators for visual reference of operation and set point conditions.

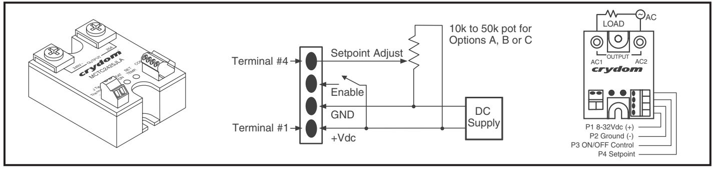

Thermo Input Type	Temperature Range	Setpoint Adjustment	Output Voltage (VAC)	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
J Type	100°F ~ 500°F	0 ~ 5VDC	24 ~ 280	25	CC1567-ND	110.34	96.55	88.28	MCTC2425JLA
J Type	100°F ~ 500°F	0 ~ 5VDC	24 ~ 280	50	CC1568-ND	120.96	105.84	96.77	MCTC2450JLA
J Type	100°F ~ 500°F	0 ~ 5VDC	24 ~ 280	90	CC1569-ND	145.34	127.18	116.28	MCTC2490JLA
K Type	100°F ~ 500°F	0 ~ 5VDC	24 ~ 280	25	CC1570-ND	110.34	96.55	88.28	MCTC2425KLA
K Type	100°F ~ 500°F	0 ~ 5VDC	24 ~ 280	50	CC1571-ND	120.96	105.84	96.77	MCTC2450KLA
K Type	100°F ~ 500°F	0 ~ 5VDC	24 ~ 280	90	CC1572-ND	145.34	127.18	116.28	MCTC2490KLA

MCPC Proportional Controller

The Crydom MCPC series of Proportional Controllers incorporate a complete phase-fired logic system and Solid State Relay in one small industry standard package. The MCPC uses microprocessor controlled logic, accepts a wide range input logic power supply, provides an output load status indicator, and five modes of analog control input along with an enable/disable control.

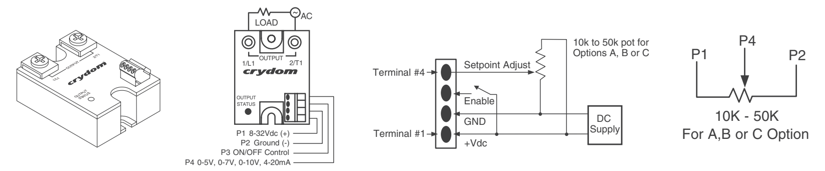

Input Voltage	Adjustment Range	Output Voltage (VAC)	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
0 ~ 5VDC	0 ~ 100% with Enable	48 ~ 140	0 ~ 25	CC1573-ND	83.82	73.35	67.06	MCPC1225A
0 ~ 5VDC	0 ~ 100% with Enable	48 ~ 140	0 ~ 50	CC1574-ND	90.16	78.89	72.13	MCPC1250A
0 ~ 5VDC	0 ~ 100% with Enable	48 ~ 140	0 ~ 90	CC1575-ND	109.28	95.62	87.43	MCPC1290A
0 ~ 5VDC	0 ~ 100% with Enable	180 ~ 280	0 ~ 25	CC1576-ND	83.82	73.35	67.06	MCPC2425A
0 ~ 5VDC	0 ~ 100% with Enable	180 ~ 280	0 ~ 50	CC1577-ND	90.16	78.89	72.13	MCPC2450A
0 ~ 5VDC	0 ~ 100% with Enable	180 ~ 280	0 ~ 90	CC1578-ND	109.28	95.62	87.43	MCPC2490A

CW Series

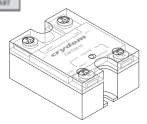

Crydom's CW24 line of solid-state relays offer an SCR AC switch output featuring low offstate leakage (1mA, snubberless), zero and random voltage switching and a broadened operating range (24 ~ 280Vac). This wide range permits optimum performance at both 120 Vac and 240 Vac line voltages. Also includes safe removable finger-safe cover and LED indicator.

Input Voltage	Operate Voltage	Release Voltage	Output Voltage (VAC)	Output Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Zero Cross Versions									
3 ~ 32VDC	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 10	CC1539-ND	40.26	35.23	32.21	CWD2410
3 ~ 32VDC	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 25	CC1541-ND	40.66	35.58	32.53	CWD2425
3 ~ 32VDC	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 50	CC1543-ND	47.50	41.57	38.00	CWD2450
3 ~ 32VDC	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 90	CC1545-ND	83.52	73.08	66.82	CWD2490

Input Voltage	Operate Voltage	Release Voltage	Voltage (VAC)	Output Current (Arms)	Output Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 10	CC1531-ND	42.58	37.26	34.07	CWA2410
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 25	CC1533-ND	43.40	37.98	34.72	CWA2425
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 50	CC1535-ND	49.14	43.00	39.32	CWA2450
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 90	CC1537-ND	86.82	75.97	69.46	CWA2490
Phase Controlled Versions									
3 ~ 32VDC	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 10	CC1540-ND	40.26	35.23	32.21	CWD2410-10
3 ~ 32VDC	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 25	CC1542-ND	40.66	35.58	32.53	CWD2425-10
3 ~ 32VDC	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 50	CC1544-ND	47.50	41.57	38.00	CWD2450-10
3 ~ 32VDC	3.0VDC	1.0VDC	24 ~ 280	.15 ~ 90	CC1546-ND	83.52	73.08	66.82	CWD2490-10
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 10	CC1532-ND	42.58	37.26	34.07	CWD2410-10
90 ~ 280VAC	90VAC	10VAC	24 ~ 280	.15 ~ 90	CC1538-ND	86.82	75.97	69.46	CWD2490-10

Solid State Relays

IP00 - Screw Terminal

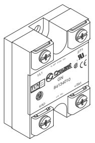

IP20 - Fingersafe

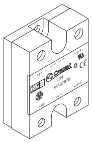

- Epoxy-Free Design Eliminates Internal Component Stress
- Direct Bond Copper Substrate for Superior Thermal Performance
- 100k-cycle UL508 Endurance Rating for Enhanced Reliability
- Back-to-Back Dual SCR Output
- No External Transient Protection Required (Internal TVS)
- UL / CSA / TUV Approved, CE Compliant
- EMC Compliant for Reliable Operation in Harsh Environments
- Zero-Crossing Output

Input Voltage	Output Current	Maximum Output	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
IP00 — Screw Terminals							
3 ~ 32VDC	25A	24 ~ 280VAC	646-1000-ND	31.27	29.78	29.10	84134010
3 ~ 32VDC	50A	24 ~ 280VAC	646-1001-ND	36.30	34.57	33.79	84134020
90 ~ 280VAC	25A	24 ~ 280VAC	646-1002-ND	34.51	32.87	32.12	84134011
90 ~ 280VAC	50A	24 ~ 280VAC	646-1003-ND	40.38	38.45	37.58	84134021
4 ~ 32VDC	25A	48 ~ 660VAC	646-1004-ND	37.86	36.06	35.24	84134110
4 ~ 32VDC	50A	48 ~ 660VAC	646-1005-ND	45.17	43.02	42.04	84134120
90 ~ 280VAC	25A	48 ~ 660VAC	646-1006-ND	40.74	38.80	37.92	84134111
90 ~ 280VAC	50A	48 ~ 660VAC	646-1007-ND	49.60	47.24	46.17	84134121
IP20 — Fingersafe Terminals							
3 ~ 32VDC	25A	24 ~ 280VAC	646-1008-ND	34.14	32.52	31.78	84137010
3 ~ 32VDC	50A	24 ~ 280VAC	646-1009-ND	39.17	37.32	36.47	84137020
90 ~ 280VAC	25A	24 ~ 280VAC	646-1010-ND	37.37	35.60	34.79	84137011
90 ~ 280VAC	50A	24 ~ 280VAC	646-1011-ND	43.37	41.31	40.37	84137021
4 ~ 32VDC	25A	48 ~ 660VAC	646-1012-ND	40.74	38.80	37.92	84137110
4 ~ 32VDC	50A	48 ~ 660VAC	646-1013-ND	48.04	45.76	44.72	84137120
90 ~ 280VAC	25A	48 ~ 660VAC	646-1014-ND	43.60	41.54	40.59	84137111
90 ~ 280VAC	50A	48 ~ 660VAC	646-1015-ND	52.35	49.86	48.73	84137121

SSR Heatsinks

HS8.1

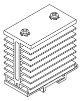

HS13

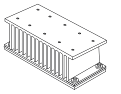

Description	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
Heatsink 2.0°C/W, For up to 20A Relay	646-1073-ND	24.29	23.14	22.61	HS2
Heatsink 0.7°C/W, For up to 30A Relay	646-1074-ND	25.52	24.32	23.76	HS5
Heatsink 2.0°C/W, For up to 45A Relay	646-1075-ND	24.29	23.14	22.61	HS8.1
Heatsink 0.8°C/W, For 3-Phase SSR with Screw Terminals	646-1076-ND	58.48	55.70	54.43	HS13

DIN Rail Solid State Relays

DR411 / DR711

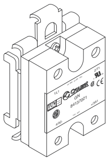

DR454 / DR457

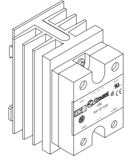

- DIN Rail Mount SSR/Heat Sink Assemblies
- No Heat Sink Calculations Required
- Standard Ratings up to 45A @ 660VAC
- No External Transient Protection Required (Internal TVS)
- LED Input Status Indicator
- IP20 Touch-Safe Housing
- AC or DC Inputs
- SSR's are UL / CSA / TUV Approved
- CE Certified and EMC Compliant

Input Voltage	Output Current	Maximum Output	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
DR411 / DR711							
4 ~ 32VDC	16A	48 ~ 660VAC	646-1040-ND	47.01	44.78	43.76	DR4110
90 ~ 250VAC	16A	48 ~ 660VAC	646-1041-ND	52.33	49.85	48.72	DR4111
4 ~ 32VDC	26A	48 ~ 660VAC	646-1042-ND	87.44	83.27	81.38	DR454120.3
90 ~ 250VAC	26A	48 ~ 660VAC	646-1043-ND	93.77	89.30	87.28	DR454121.3
DR454 / DR457 with Heatsink							
4 ~ 32VDC	16A	48 ~ 660VAC	646-1044-ND	47.64	45.38	44.35	DR7110
90 ~ 250VAC	16A	48 ~ 660VAC	646-1045-ND	53.48	50.94	49.78	DR7111
4 ~ 32VDC	26A	48 ~ 660VAC	646-1046-ND	88.70	84.48	82.56	DR457120.3
90 ~ 250VAC	26A	48 ~ 660VAC	646-1047-ND	95.03	90.52	88.46	DR457121.3

DIN-Rail Mount Solid State Relays

22.5mm

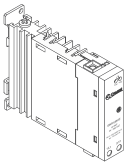

45mm

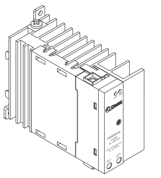

3 Phase — 90mm

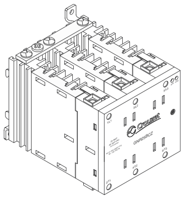

- Epoxy - Free Design Minimizes Internal Component Stress
- Direct Bond Copper Substrate for Superior Thermal Performance
- 100k-cycle UL508 Endurance Rating for Enhanced Reliability
- Back-to-Back Dual SCR Output
- No External Transient Protection Required (Internal TVS)
- UL / CSA / TUV Approved, CE Compliant
- EMC Compliant for Reliable Operation in Harsh Environments
- Zero-Crossing Output

Input Voltage	Output Current	Maximum Output	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
22.5mm							
4 ~ 32VDC	10A	280VAC	646-1016-ND	46.78	44.56	43.55	GNR10DHZ
90 ~ 140VAC	10A	280VAC	646-1017-ND	47.45	45.20	44.17	GNR10BHZ
4 ~ 32VDC	20A	660VAC	646-1018-ND	50.83	48.41	47.31	GNR20DHZ
90 ~ 140VAC	20A	660VAC	646-1019-ND	57.35	54.62	53.38	GNR20BHZ
4 ~ 32VDC	30A	660VAC	646-1020-ND	55.91	53.26	52.04	GNR30DHZ
90 ~ 140VAC	30A	660VAC	646-1021-ND	63.08	60.09	58.72	GNR30BHZ
45mm							
4 ~ 32VDC	35A	660VAC	646-1022-ND	65.04	61.94	60.53	GNR35DHZ
90 ~ 140VAC	35A	660VAC	646-1023-ND	67.32	64.11	62.66	GNR35BHZ
4 ~ 32VDC	45A	660VAC	646-1024-ND	71.54	68.14	66.59	GNR45DHZ
90 ~ 140VAC	45A	660VAC	646-1025-ND	74.05	70.53	68.93	GNR45BHZ
3 Phase — 90mm							
4 ~ 32VDC	25A	660VAC	646-1026-ND	170.93	162.79	159.09	GNR25DCZ
90 ~ 140VAC	25A	660VAC	646-1027-ND	174.30	166.01	162.24	GNR25BCZ

Dual Solid State Relays

Locking Connector Input

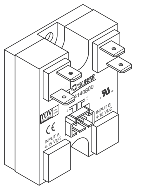

Screw Terminal

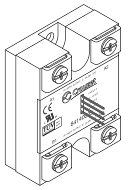

- True 40A per Channel Rating @ 240 and 480VAC
- Dual Input Channels for Independent Output Operation
- No External Transient Protection Required (Internal TVS)
- Zero-crossing (resistive loads) or random-fire (inductive loads) outputs
- UL / CSA / TUV / CUL Approved
- CE Certified and EMC Compliant

Input Voltage	Output Current	Maximum Output	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
Quick Connect Terminals							
4 ~ 15VDC	25A	24 ~ 280VAC	646-1036-ND	48.50	46.20	45.15	84140800
17 ~ 32VDC	25A	24 ~ 280VAC	646-1037-ND	48.50	46.20	45.15	84140810
4 ~ 15VDC	40A	24 ~ 280VAC	646-1038-ND	52.73	50.23	49.09	84140900
17 ~ 32VDC	40A	24 ~ 280VAC	646-1039-ND	52.73	50.23	49.09	84140910
Screw Terminals							
4 ~ 15VDC	25A	24 ~ 280VAC	646-1028-ND	51.77	49.31	48.19	84140003
17 ~ 32VDC	25A	24 ~ 280VAC	646-1029-ND	51.77	49.31	48.19	84140013
4 ~ 15VDC	40A	24 ~ 280VAC	646-1030-ND	56.00	53.34	52.13	84140203
17 ~ 32VDC	40A	24 ~ 280VAC	646-1031-ND	56.00	53.34	52.13	84140213
4 ~ 15VDC	25A	48 ~ 660VAC	646-1032-ND	57.69	54.95	53.71	84140503
17 ~ 32VDC	25A	48 ~ 660VAC	646-1033-ND	57.69	54.95	53.71	84140513
4 ~ 15VDC	40A	48 ~ 660VAC	646-1034-ND	62.90	59.91	58.55	84140603
17 ~ 32VDC	40A	48 ~ 660VAC	646-1035-ND	62.90	59.91	58.55	84140613

Crouzet

C4 Series I/O Modules

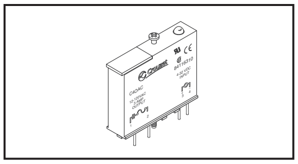

- New industry Standard Package
- Replaceable Fuse in Output Modules
- Color Coded Housing for AC or DC Input
- UL Recognized, CSA Certified, CE Compliant

Input Modules

Input Voltage Range	Max. Input Current	Logic Supply Voltage	Max. Logic Supply Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
90 ~ 140VAC	14mA	4.5 ~ 30VDC	25mA	646-1048-ND	11.55	11.01	10.75	C4IAC
140 ~ 280VAC	5mA	4.5 ~ 30VDC	25mA	646-1049-ND	12.17	11.60	11.33	C4IACA
10 ~ 32VDC	20mA	4.5 ~ 30VDC	25mA	646-1050-ND	11.55	11.01	10.75	C4IDC

Output Modules

Output Voltage Range	Max. Output Current	Nom. Input Voltage	Max. Input Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
24 ~ 280VAC	3.0A	4 ~ 32VDC	22mA	646-1051-ND	13.68	13.04	12.74	C4OACA
12 ~ 140VAC	3.0A	4 ~ 32VDC	22mA	646-1052-ND	13.31	12.67	12.39	C4OAC
5 ~ 60VDC	3.0A	4 ~ 32VDC	16mA	646-1053-ND	13.31	12.67	12.39	C4ODC
3 ~ 250VDC	1.0A	4 ~ 32VDC	16mA	646-1054-ND	15.94	15.19	14.84	C4ODCA

Mounting Boards for C4 Series I/O Modules

Max. No. of I/O	Dimensions (L x W x H)†	Logic Connection	Load Connection	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
4	3.25 x 3.25 x 2.5	Screw Terminal	Screw Terminal	646-1058-ND	41.82	39.84	38.94	PB4C4
16	10 x 3.25 x 2.5	50-Pin Header	Screw Terminal	646-1059-ND	104.01	99.05	96.80	PB16C4
16	9.5 x 3.25 x 2.5	Screw Terminal	Screw Terminal	646-1060-ND	119.44	113.75	111.17	PB16C4T

† Including I/O modules and standoffs

Quad I/O Modules

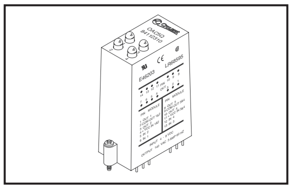

- Industry Standard Package
- Color Coded Housing for AC and DC Input
- Built in LED Status Indicator
- UL Recognized, CSA Certified, CE Compliant
- 4 Modules in One Package

Output Modules

Output Voltage Range	Max. Output Current	Nom. Input Voltage	Max. Input Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
3 ~ 60VDC	3.0A	5VDC	18mA	646-1069-ND	59.00	56.19	54.92	ODC5Q.11

Mounting Boards for Quad I/O Modules

No. of Modules	Dimensions (L x W x H)†	Logic Connection	Load Connection	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
4	5.8 x 6.0 x 3.9	Edge Card	Screw Terminal	646-1070-ND	115.96	110.44	107.93	PB16Q
6	8 x 6 x 3.9	Edge Card	Screw Terminal	646-1071-ND	156.87	149.41	146.01	PB24Q
8	10.2 x 6.2 x 3.9	Edge Card	Screw Terminal	646-1072-ND	197.81	188.39	184.11	PB32Q

† Including I/O modules and standoffs

Mounting Boards Miniature I/O

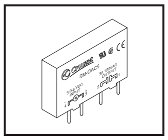

- Industry Standard Package
- Output Ratings up to 5 Amps
- Color Coded Housing for AC and DC Input
- UL Recognized, CSA Certified, CE Compliant

Output Modules

Output Voltage Range	Max. Output Current	Nom. Input Voltage	Max. Input Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
3 ~ 60VDC	3.0A	24VDC	13mA	646-1077-ND	14.69	13.99	13.67	SMODC24

Mounting Boards for SM Series I/O Modules

Max. No. of I/O	Dimensions (L x W x H)†	Logic Connection	Load Connection	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
8	6.4 x 3.5 x 1.9	Card-Edge	Screw Terminal	646-1055-ND	58.49	55.71	54.45	PB8SM
16	10.0 x 3.5 x 1.9	Card-Edge	Screw Terminal	646-1056-ND	104.01	99.05	96.80	PB16SM
24	13 x 3.75 x 1.88	Card-Edge	Screw Terminal	646-1057-ND	153.01	145.73	142.42	PB24SM

† Including I/O modules and standoffs

Epoxy Encapsulated DIN Rail I/O Modules

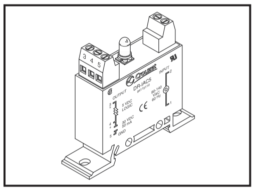

- DIN Rail Mountable I/O Modules
- Color Coded Housing for AC and DC Input
- Built in LED Status Indicator
- UL Recognized, CSA Certified, CE Compliant

Input Modules

Input Voltage Range	Max. Input Current	Logic Supply Voltage	Max. Logic Supply Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
90 ~ 140VAC	5mA	5VDC	28mA	646-1063-ND	22.59	21.52	21.04	DRIAC5
4 ~ 32VDC	34mA	5VDC	28mA	646-1064-ND	22.59	21.52	21.04	DRIDC5

Output Modules

Output Voltage Range	Max. Output Current	Nom. Input Voltage	Max. Input Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
12 ~ 280VAC	5A	5 ~ 24VDC	18mA	646-1065-ND	24.73	23.55	23.02	DROAC
3 ~ 60VDC	3.0A	5VDC	18mA	646-1066-ND	24.73	23.55	23.02	DRODC5

DIN Rail I/O Modules

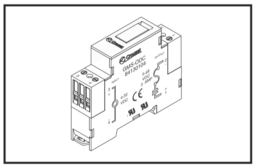

- DIN Rail Mountable I/O Modules
- Color Coded Housing for AC and DC Input
- Built in LED Status Indicator
- UL Recognized, CSA Certified, CE Compliant, CUL Approved

Input Modules

Input Voltage Range	Max. Input Current	Logic Supply Voltage	Max. Logic Supply Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
90 ~ 140VAC	14mA	4.5 ~ 30VDC	32mA	646-1061-ND	25.61	24.39	23.84	84115501
4 ~ 32VDC	35mA	4.5 ~ 30VDC	32mA	646-1062-ND	28.43	27.08	26.46	84115503

Output Modules

Output Voltage Range	Max. Output Current	Nom. Input Voltage	Max. Input Current	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
5 ~ 60VDC	3A	4 ~ 32VDC	22mA	646-1067-ND	22.91	21.82	21.33	84130104
12 ~ 280VAC	5A	4 ~ 32VDC	22mA	646-1068-ND	27.93	26.61	26.01	84130105

crydom®

Quad I/O Modules

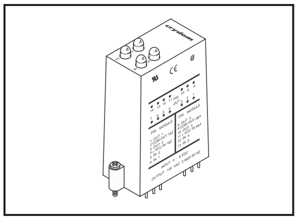

- Industry Standard Package
- Color Coded Housing for AC and DC Input
- Built in LED Status Indicator
- UL Recognized, CSA Certified, CE Compliant
- 4 Separate modules in one package

Note: For Mounting Boards use PB16Q, PB24Q and PB32Q

Input Modules

Input Voltage Range	Max. Input Current	Logic Supply Voltage	Max. Logic Supply Current	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
90 ~ 140VAC	6mA	5VDC	16mA	CC1636-ND	63.56	55.62	50.85	IAC5Q
180 ~ 280VAC	5mA	5VDC	16mA	CC1637-ND	67.02	58.65	53.62	IAC5AQ
10 ~ 60VDC	34mA	5VDC	16mA	CC1638-ND	63.56	55.62	50.85	IDC5Q
4 ~ 32VDC	68mA	5VDC	16mA	CC1639-ND	69.00	60.38	55.20	IDC5BQ

Output Modules

Output Voltage Range	Max. Output Current	Nom. Input Voltage	Max. Input Current	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
12 ~ 140VAC	3.5A	5VDC	20mA	CC1640-ND	62.20	54.43	49.76	OAC5Q
24 ~ 280VAC	3.5A	5VDC	20mA	CC1641-ND	65.52	57.33	52.42	OAC5AQ
3 ~ 60VDC	3.0A	5VDC	18mA	CC1642-ND	65.52	57.33	52.42	ODC5Q

Miniature I/O Modules

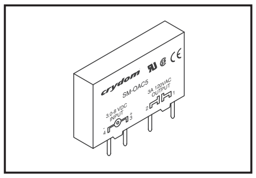

- Industry Standard Package
- Output Ratings up to 5 Amps
- Color Coded Housing for AC and DC Input
- UL Recognized, CSA Certified, CE Compliant

Note: For Mounting Boards use PB8SM, PB16SM and PB24SM

Input Modules

Input Voltage Range	Max. Input Current	Logic Supply Voltage	Max. Logic Supply Current	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
90 ~ 140VAC	5mA	5VDC	16mA	CC1628-ND	12.82	11.22	10.26	SMIAC5
180 ~ 280VAC	5mA	5VDC	16mA	CC1630-ND	13.10	11.47	10.48	SMIAC5A
10 ~ 36VDC	34mA	5VDC	16mA	CC1629-ND	12.82	11.22	10.26	SMIDC5

Output Modules

Output Voltage Range	Max. Output Current	Nom. Input Voltage	Max. Input Current	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
12 ~ 140VAC	3.5A	5VDC	20mA	CC1631-ND	12.82	11.22	10.26	SMOAC5
3 ~ 60VDC	3.0A	5VDC	18mA	CC1633-ND	12.82	11.22	10.26	SMODC5
3 ~ 250VDC	1.0A	5VDC	18mA	CC1634-ND	16.42	14.37	13.14	SMODC5A

General Cable CAROL® BRAND

Hook-Up Wire

Conductor: • Fully annealed tinned copper per ASTM B-33 **Insulation:** • Premium grade color coded PVC • Temperature Range: -20°C ~ 105°C • Voltage Rating: 300 Volts • Nominal Insulation Thickness: 0.016 (0.41mm) **Industry Approvals:** • UL Style 1007, UL Style 1569 • CSA TR-64 • Passes UL VW-1 Vertical Flame Test • OSHA acceptable

Cond. Size (AWG)	Cond. Strand	Ins. O.D. (mm)	Digi-Key* Part No. for 100 ft.	Price 100 ft.†	Digi-Key* Part No. for 1000 ft.	Price 1,000 ft.†	General Cable Part No.
Solid Conductors — RoHS Compliant							
24	Solid	1.32	C2003☐-100-ND	15.05	C2003☐-1000-ND	51.85	C2003
22	Solid	1.45	C2004☐-100-ND	16.04	C2004☐-1000-ND	59.90	C2004
20	Solid	1.63	C2028☐-100-ND	18.74	C2028☐-1000-ND	82.02	C2028
18	Solid	1.83	C2052☐-100-ND	23.95	C2052☐-1000-ND	124.61	C2052
16	Solid	2.11	C2053☐-100-ND	29.72	C2053☐-1000-ND	171.88	C2053
Stranded Conductors							
24	7/32	1.42	C2015☐-100-ND◆	15.95	C2015☐-1000-ND◆	59.18	C2015
22	7/30	1.57	C2016☐-100-ND◆	17.42	C2016☐-1000-ND◆	71.22	C2016
20	10/30	1.78	C2040☐-100-ND◆	20.10	C2040☐-1000-ND◆	93.11	C2040
18	16/30	2.03	C2064☐-100-ND◆	25.56	C2064☐-1000-ND◆	137.84	C2064
16	26/30	2.34	C2065☐-100-ND	32.90	C2065☐-1000-ND◆	197.89	C2065

Stranded, PVC Insulation UL Style 1015, TEW, PVC, 600V 105°C, VW-1

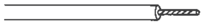

Cond. Size (AWG)	Strand	Nom. O.D. (mm)	Insulation Thickness (mm)	Digi-Key* Part No. for 100 ft.	Price 100 ft.†	Digi-Key* Part No. for 1000 ft.	Price 1,000 ft.†	General Cable Part No.
Stranded — RoHS Compliant								
24	7/32	2.24	0.81	C2100☐-100-ND	16.75	C2100☐-1000-ND	65.75	C2100
22	7/30	2.39	0.81	C2101☐-100-ND	18.98	C2101☐-1000-ND	83.98	C2101
20	10/30	2.59	0.81	C2102☐-100-ND	21.55	C2102☐-1000-ND	105.87	C2102
18	16/30	2.84	0.81	C2103☐-100-ND	24.74	C2103☐-1000-ND	131.95	C2103
16	26/30	3.15	0.81	C2104☐-100-ND	34.14	C2104☐-1000-ND	81.70	C2104
14	41/30	3.58	0.81	C2105☐-100-ND	44.27	C2105☐-1000-ND	295.21	C2105
10	105/30	4.67	0.81	C2107☐-100-ND	96.04	C2107☐-1000-ND	700.36	C2107
Solid — RoHS Compliant								
22	1	2.26	0.81	C2117☐-100-ND	17.75	C2117☐-1000-ND	73.87	C2117
20	1	2.44	0.81	C2118☐-100-ND	20.78	C2118☐-1000-ND	98.74	C2118
18	1	2.64	0.81	C2119☐-100-ND	25.64	C2119☐-1000-ND	139.28	C2119

◆ ***RoHS Compliant***

* For ☐ in Digi-Key Part No. choose letter which represents color of your choice: **B**=Black; **W**=White; **R**=Red; **G**=Green; **A**=Orange; **Y**=Yellow; **L**=Blue; **N**=Brown; **S**=Slate Gray; **V**=Violet.

† Length tolerance is ±1% • Wire is ordered per EIA-359-A color specification which allows for some variation in shade.

Audio and Communication

C1331 AND C1340 – **Conductor:** • 22 thru 20 AWG fully annealed stranded tinned copper per ASTM B-33 **Insulation:** • **C1331:** Premium grade, color coded PVC • **C1340:** Premium grade, color coded polypropylene **Shield:** • 100% Flexfoil® aluminum/polyester over 2 conductors, 25% overlap, minimum, foil facing out • Stranded tinned copper drain wire **Jacket:** • PVC, gray • Temperature Range: -20°C ~ 80°C **Applications:** • Audio • Communications • EMI isolated circuits for instrumentation

C2509 – **Conductor:** • 20 AWG fully annealed solid tinned copper per ASTM B-33 **Insulation:** • Premium grade, color coded polyethylene **Shield:** • 100% Flexfoil® aluminum/polyester with 25% overlap, minimum, foil facing out • Solid tinned copper drain wire **Jacket:** • Permaline® high density polyethylene, Black • Temperature Range: -20°C ~ 80°C **Applications:** • Suitable for direct burial • Outdoor uses • 100% shielded cable where RF shielding is required • Suggested Voltage Rating: 350 Volts

Fig. 1

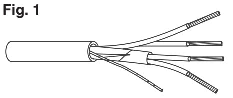

Fig. 2

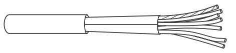

No. of Cond.	Cond. Size (AWG)	Strand	Nominal Insulation Thickness (mm)	Nominal O.D. (mm)	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	1,000 ft.	5,000 ft.	General Cable Part No.
Fig. 1 — UL Style 2095, 300 Volt NEC Type CL2, Gray — RoHS Compliant									
4	20	7/28	0.41	5.84	C1331-X-ND	74.17	349.32	—	C1331.41.10
Fig. 1 — UL Style 2835, 30 Volt, Gray — RoHS Compliant									
4	22	7/30	0.20	4.24	C1340-X-ND	51.74	230.11	—	C1340.21.10
Fig. 2 — UL Style C2509, 350 Volt, Black									
2	20	Solid	0.33	4.83	C2509-X-ND	—	—	922.13	C2509.46.01

Rubber/PVC Test Lead Wire

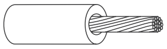

Conductor: • Fully annealed stranded tinned copper per ASTM B-33 **Insulation:** • Premium grade color coded Rubber or PVC • Temperature Range: -20°C ~ 60°C for Rubber; -25°C ~ 60°C for PVC

No. of Cond.	Cond. Size (AWG)	Strand	Nom. Ins. Thickness (mm)	Working Voltage	Color	Nom. O.D. (mm)	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	1,000 ft.	General Cable Part No.
Rubber Test Leads — RoHS Compliant										
1	18	65/36	1.14	5,000V	Black Red	3.56	C1321B-X-ND C1321R-X-ND	38.04 38.04	155.12 155.12	C1321.21.01 C1321.21.03
PVC Test Leads										
1	18	65/36	1.14	5,000V	Black	3.56	C1320B-X-ND	32.97	128.45	C1320.21.01

General Cable CAROL® BRAND

PVC Coated Speaker Cable

RoHS COMPLIANT

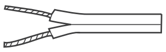

Conductor: Fully annealed 1 bare, 1 tin stranded copper per ASTM B-174 **Insulation:** Clear; Premium grade PVC **Jacket:** PVC Clear **Temperature Range**: -20°C ~ 60°C **Voltage Rating:** UL listed (wires, misc.) 120V maximum

No. of Cond.	Cond. Size (AWG)	Strand	Nom. Ins. Thickness (mm)	Nominal O.D. (mm)	Suggested Working Voltage	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 500 ft.†	1,000 ft.†	General Cable Part No.
2	24	7/32	0.41	1.40 x 2.79	120	C1356-X-ND	33.00	59.40	C1356
2	22	7/30	0.51	1.78 x 3.68	120	C1362-X-ND	50.03	92.16	C1362
2	20	10/30	0.51	2.16 x 4.06	120	C1360-1000-ND	—	125.02	C1360
2	18	16/30	0.64	2.54 x 4.75	120	C1357-X-ND	83.53	157.49	C1357
2	16	26/30	0.64	2.84 x 5.33	120	C1358-500-ND	124.73	—	C1358
2	14	41/30	0.64	3.05 x 5.84	120	C1361-500-ND	198.00	—	C1361

† Length tolerance is ±10%

PATCO SERVICE INC.

Thermal Wire Strippers

• Nichrome, heating element: 450°F (232°C) in less than 5 seconds • Stripper 1700°F (927°C) in less than 5 seconds • Eliminates nicks and broken strands of conductors • Handles solid, stranded and shielded wires • Does not burn skin • AC line power or rechargeable battery power versions • Complete with cleaning brush and operating instructions

PTS-30-ND

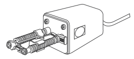

PTS-10-ND
PTS-20-ND

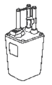

Description	Digi-Key Part No.	Price Each
Thermal Wire Stripper, Battery Powered with Cleaning Brush	PTS-20-ND*	106.09
Replacement Blade for PTS-20	PTS-201-ND	5.40
Thermal Wire Stripper with Cleaning Brush	PTS-10-ND*	75.70
Replacement Blade for PTS-10-ND	PTS-101-ND	5.19
Teflon Wire Stripper for 16-30 AWG	PTS-30-ND	115.00
Replacement Blade for PTS-30-ND	PTS-302-ND	5.32

* Will not strip Teflon wire

Tyco Electronics AMP
Authorized Distributor

Cable Stripper

A1110-ND Cable Stripping Tool for RG/58, 59 (AMP Part No. 603995-1) **$108.68**

OK Industries
Division of Jonard Industries Corp.

Wire Strippers

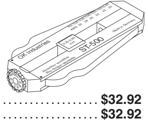

Features:

- Calibrated Strip Length (Adjustable to 2 inches)
- Single action squeeze-pull motion
- Clean, precise strip of any insulation type
- Shirt-pocket size and light weight

K503-ND	20 ~ 30AWG	**$32.92**
K276-ND	18 ~ 28AWG	**$32.92**

MILLER®

Wire Strippers

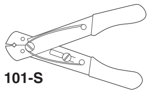

101-S

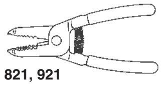

721, 821, 921

101-S WIRE STRIPPER: Handy, lightweight, universal stripping tool cuts and strips common wire sizes. Hardened blades. Plastic grips. Spring action to speed work. Full length: 5.125” (130.18mm)

721, 821, 921 WIRE STRIPPERS: Strip and cut commonly used wire, single or stranded, AWG or metric. Each tool will strip several different wire sizes. Narrow nose plier design is an extra feature along with cushion grips and spring release. Hardened pivot joint for longer life. A perfect tool for solder benches or assembly areas.

101-S-ND	Up to 10AWG	**$9.84**
721-ND	10 ~ 20AWG	**$16.11**
821-ND	16 ~ 26AWG	**$16.11**
921-ND	20 ~ 30AWG	**$16.11**

DABURN

Plastic Kinkless Test Lead Wire

• Soft formulation vinyl maximum flexibility • Temperature stability from -80°C ~ 105°C • Exceed requirements for MIL-I-3930A Type JP(PVC) • Suitable for test leads, etc. • Resistant to gasoline and oil • Excellent abrasion resistance. **Description:** One conductor tinned copper stranded, special formulation vinyl insulation - smooth surface **Operating Temperature:** -80°C ~ 105°C, 5000V rating

Feet	Size (AWG)	Strand	Ins. (mm)	O.D. Nom. (mm)	Digi-Key Part No. Red	Black	Yellow	Green	Blue	White	Price Per Roll
100	22	26/36	.81	2.54	W2722R-100-ND◆	W2722B-100-ND	W2722Y-100-ND	W2722G-100-ND◆	W2722L-100- ND◆	W2722W-100-ND◆	16.32
1,000	22	26/36	.81	2.54	W2722R-1000-ND◆	W2722B-1000-ND	W2722Y-1000-ND	W2722G-1000-ND◆	W2722L-1000-ND◆	W2722W-1000-ND◆	107.84
100	20	26/34	.81	2.64	W2720R-100-ND◆	W2720B-100-ND◆	W2720Y-100-ND◆	W2720G-100-ND◆	W2720L-100-ND◆	W2720W-100-ND◆	16.87
1,000	20	26/34	.81	2.64	W2720R-1000-ND◆	W2720B-1000-ND◆	W2720Y-1000-ND◆	W2720G-1000-ND◆	W2720L-1000-ND◆	W2720W-1000-ND◆	129.63
100	18	65/36	.81	2.84	W2718R-100-ND	W2718B-100-ND◆	W2718Y-100-ND	W2718G-100-ND	W2718L-100-ND◆	W2718W-100-ND◆	27.53
1,000	18	65/36	.81	2.84	W2718R-1000-ND	W2718B-1000-ND	W2718Y-1000-ND	W2718G-1000-ND	W2718L-1000-ND◆	W2718W-1000-ND◆	188.55
100	16	65/34	.81	3.28	W2716R-100-ND◆	W2716B-100-ND◆	W2716Y-100-ND◆	W2716G-100-ND◆	W2716L-100-ND◆	W2716W-100-ND◆	30.90
1,000	16	65/34	.81	3.28	W2716R-1000-ND◆	W2716B-1000-ND◆	W2716Y-1000-ND◆	W2716G-1000-ND◆	W2716L-1000-ND◆	W2716W-1000-ND◆	264.74

◆ ***RoHS Compliant***

Rubber Kinkless Test Lead Wire

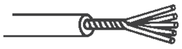

RoHS COMPLIANT

Suitable as Test Lead Wire in analyzers, instruments, oscillators, meters, etc., wherever extra flexibility and limpness are necessary. Single conductor, extra flexible stranded soft tinned copper, color-coded rubber, smooth wax finish. **Operating Temperature:** -20°C ~ 60°C

Feet	Size (AWG)	Nom. Strand	Breakdown Ins. Wall	Voltage	Nom. Voltage	O.D. Nom. (mm)	Digi-Key Part No. Red	Black	Price Per Roll
100	20	41/36	1.19mm	12,000	3,000	3.48	W2715R-100-ND	W2715B-100-ND	50.71
1,000	20	41/36	1.19mm	12,000	3,000	3.48	W2715R-1000-ND	W2715B-1000-ND	334.70

General Cable CAROL® BRAND

Multi-Conductor Cable

LL46351 E26174

COLOR CODE CHART 1

No.	Color	No.	Color	No.	Color
1	Black	11	Pink	21	White/Brown
2	White	12	Tan	22	White/Orange
3	Red	13	Red/Green	23	White/Gray
4	Green	14	Red/Yellow	24	White/Violet
5	Brown	15	Red/Black	25	Wht/Blk/Red
6	Blue	16	White/Black	26	Wht/Blk/Grn
7	Orange	17	White/Red	27	Wht/Blk/Yel
8	Yellow	18	White/Green	28	Wht/Blk/Blu
9	Violet	19	White/Yellow	29	Wht/Blk/Brn
10	Gray	20	White/Blue	30	Wht/Blk/Org

COLOR CODE CHART 2

No.	Color	No.	Color	No.	Color
1	Black	11	Blue/Black	21	Orange/Green
2	White	12	Black/White	22	Blk/Wht/Red
3	Red	13	Red/White	23	Wht/Blk/Red
4	Green	14	Green/White	24	Red/Blk/Wht
5	Orange	15	Blue/White	25	Grn/Blk/Wht
6	Blue	16	Black/Red	26	Org/Blk/Wht
7	White/Black	17	White/Red	27	Blu/Blk/Wht
8	Red/Black	18	Orange/Red	28	Blk/Red/Grn
9	Green/Black	19	Blue/Red	29	Wht/Red/Grn
10	Orange/Black	20	Red/Green	30	Red/Blk/Grn

Notes:

1. UL-2092 (UL: 60°C, 300V)
2. UL-2093 (UL: 60°C, 300V)
3. UL-2106 (UL: 60°C, 600V)
4. NEC Article 725 Type CL2 (UL: 75°C)
5. UL Style 2464 (UL: 80°C, 300V)
6. NEC Article 800 Type CM (UL: 75°C)
7. CSA PCC (60°C)
8. Passes UL 70,000 BTU Vertical Tray Flame Test
9. Passes CSA FT1 Flame Test
10. OSHA acceptable
11. NEC Article 725 (UL: 60°C)
12. NEC Article 725 Type CL3 (UL: 75°C)
13. NEC Article 800 Type CM (UL: 75°C)
14. CM-CSA PCC FT4, non UL2464
15. NEC Article 725 Power-Limited Tray Cable (UL: 105°C, 300V)
16. NEC Type CL3P only
17. UL2587 (600V), CSA CMG Flame Test
18. NEC 760, UL Type FPL (300V) UL 2,500 BTU

A. Capacitance between conductors
B. Cap. between 1 conductor & other conductors connected to shield

COLOR CODE CHART 3

No.	Color	No.	Color
1	Black	3	Red
2	Natural	4	Green

COLOR CODE CHART 4

No.	Color	No.	Color
1	Black	3	White
2	Red	4	Green

Non-Plenum

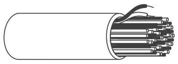

Plenum

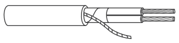

No. of Cond.	Color Code Chart	Conductor Size (AWG)	Conductor Strand	Nominal Insulation Thickness Inches (mm)	Nominal Jacket Thickness Inches (mm)	Suggested Working Voltage	Nominal O.D. Inches (mm)	Nominal Cap. pF/FT (See Notes A / B)		Nominal Ω/M @ 20°C Conductor / Shield		Notes	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll			Mfg. Series No.
								A	B	Conductor	Shield			100 ft.†	500 ft. #	1,000 ft. #	
NON-PLENUM																	
Unshielded																	
2	Red/Blk	22	7/30	0.010 (0.25)	0.015 (0.38)	300V	0.130 (3.30)	25.5	—	—		9	W120-X-ND◆	28.63	61.18	115.57	C6348
3	Blk/Red/Gn	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.176 (4.47)	25.5	—	—		5, 6, 7, 8, 9, 10	W121-X-ND◆	40.40	89.76	169.24	C4062
4	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.189 (4.80)	25.5	—	—		5, 6, 7, 8, 9, 10	W122-X-ND◆	50.28	117.73	221.58	C4063
4	1	22	Solid	0.006 (0.15)	0.015 (0.38)	300V	0.129 (3.28)	—	—	—		13	C4412-X-ND	33.80	—	127.31	C4412
5	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.203 (5.16)	25.5	—	—		5, 6, 7, 8, 9, 10	W123-X-ND◆	54.45	130.63	245.89	C4064
6	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.218 (5.54)	25.5	—	—		5, 6, 7, 8, 9, 10	W124-X-ND◆	63.44	153.73	298.14	C4066
7	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.218 (5.54)	25.5	—	—		5, 6, 7, 8, 9, 10	W125-X-ND◆	70.03	—	325.98	C4088
8	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.234 (5.94)	25.5	—	—		5, 6, 7, 8, 9, 10	W126-X-ND◆	77.69	196.48	369.15	C4065
9	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.249 (6.32)	25.5	—	—		5, 6, 7, 8, 9, 10	W127-X-ND◆	89.46	—	435.50	C4070
10	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.268 (6.81)	25.5	—	—		5, 6, 7, 8, 9, 10	W128-X-ND◆	97.83	360.33	482.72	C4071
12	1	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.276 (7.01)	25.5	—	—		5, 6, 7, 8, 9, 10	W129-X-ND◆	110.48	285.92	553.97	C4067
15	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.303 (7.70)	25.5	—	—		5, 6, 7, 8, 9, 10	W130-X-ND◆	149.58	—	743.87	C4073
25	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.368 (9.35)	25.5	—	—		5, 6, 7, 8, 9, 10	W132-X-ND◆	243.36	—	1190.90	C4076
30	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.389 (9.88)	25.5	—	—		5, 6, 7, 8, 9, 10	W133-X-ND	293.55	1139.28	1455.55	C4077
Overall Foil Shielded (100% Aluminum Mylar Foil) — With Drain Wire																	
4	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.190 (4.83)	36.0	65.0	15.0	12.0	5, 6, 7, 8, 9, 10	W504-X-ND◆	59.43	141.72	274.85	C0762
6	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.219 (5.56)	34.0	61.0	15.0	12.0	5, 6, 7, 8, 9, 10	W506-X-ND◆	73.26	183.20	344.19	C0763
8	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.235 (5.97)	34.0	61.0	15.0	10.7	5, 6, 7, 8, 9, 10	W508-X-ND◆	91.64	231.14	447.81	C0764
10	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.269 (6.83)	34.0	61.0	15.0	10.7	5, 6, 7, 8, 9, 10	W510-X-ND◆	109.37	282.70	547.72	C0765
15	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.304 (7.72)	34.0	61.0	15.0	10.7	5, 6, 7, 8, 9, 10	W515-X-ND◆	158.21	408.66	790.94	C0766
20	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.335 (8.51)	34.0	61.0	15.0	9.1	5, 6, 7, 8, 9, 10	W520-X-ND	210.30	—	1016.60	C0767
25	2	22	7/30	0.010 (0.25)	0.032 (0.81)	300V	0.369 (9.37)	34.0	61.0	15.0	9.1	5, 6, 7, 8, 9, 10	W525-X-ND◆	249.04	957.19	1220.86	C0768
Overall Foil Shielded (100% Aluminum Mylar Foil) — With Drain Wire — RoHS Compliant																	
4	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.175 (4.45)	33.0	59.4	26.0	18.0	5, 6, 7, 8, 9, 10	W404-X-ND	48.33	111.69	210.24	C0742
6	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.201 (5.11)	33.0	59.4	26.0	16.0	5, 6, 7, 8, 9, 10	W406-X-ND	58.82	139.89	271.28	C0743
8	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.215 (5.46)	33.0	59.4	26.0	16.0	5, 6, 7, 8, 9, 10	W408-X-ND	68.66	169.42	318.29	C0744
10	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.245 (6.22)	30.0	59.4	26.0	14.0	5, 6, 7, 8, 9, 10	W410-X-ND	82.76	—	397.76	C0745
15	2	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.276 (7.01)	30.0	59.4	26.0	14.0	5, 6, 7, 8, 9, 10	W415-X-ND	121.12	316.88	613.96	C0746
20	2	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.303 (7.70)	30.0	59.4	26.0	14.0	5, 6, 7, 8, 9, 10	W420-X-ND	159.43	399.99	774.17	C0747
25	2	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.333 (8.46)	30.0	59.4	26.0	12.0	5, 6, 7, 8, 9, 10	W425-X-ND	193.01	—	925.42	C0748
30	2	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.351 (8.92)	30.0	59.4	26.0	12.0	5, 6, 7, 8, 9, 10	W430-X-ND	236.32	—	1153.78	C0749
Multi-Conductor Foil Shield — With Drain Wire — RoHS Compliant																	
2	3	22	7/30	0.016 (0.41)	0.026 (0.66)	300V	0.167 (4.24)	26.0	47.0	—		1,2,3,4,5,6,7,8,9,10	C2514-1000-ND	—	—	189.98	C2514
2	Blk/Red	18	16/30	0.013 (0.33)	0.037 (0.94)	300V	0.227 (5.77)	50.0	90.0	—		8, 15	C0454-1000-ND	—	—	317.74	C0454
2	3	18	16/30	0.018 (0.46)	0.030 (0.76)	300V	0.229 (5.82)	24.0	43.0	—		1	C2534-X-ND	64.25	156.19	302.90	C2534
3	3	18	16/30	0.018 (0.46)	0.030 (0.76)	300V	0.247 (6.27)	22.0	40.0	—		2	C2535-X-ND	81.36	106.50	384.12	C2535
4	4	18	19/30	0.010 (0.25)	0.032 (0.81)	300V	0.238 (6.05)	50.0	90.0	—		5, 6, 7, 8, 16	C2543-1000-ND	—	—	558.25	C2543
9	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.228 (5.79)	30.0	59.4	26.0	16.0	5, 6, 7, 8, 9, 10	C0755-X-ND	73.83	—	347.43	C0755
Multi-Conductor Unshielded — RoHS Compliant																	
2	Blk/Red	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.156 (3.96)	23.0	—	—		5, 6, 8	C2461-1000-ND	—	—	109.06	C2461
2	4	20	7/28	0.013 (0.33)	0.037 (0.94)	300V	0.206 (5.23)	28.0	—	—		8, 15	C0433-1000-ND	—	—	186.42	C0433
2	Blk/Red	18	16/30	0.016 (0.41)	0.025 (0.64)	300V	0.210 (5.33)	28.0	—	—		5, 6, 7, 8, 14, 16	C2830-1000-ND	—	—	238.96	C2830
2	2	16	19/.0117	0.021 (0.53)	0.032 (0.81)	300V	0.268 (6.81)	28.0	—	—		5, 6, 8	C2405-1000-ND	—	—	387.22	C2405
2	4	16	Solid	0.016 (0.41)	0.020 (0.51)	300V	0.206 (5.23)	17.5	—	—		18	C0473-1000-ND	—	—	290.37	C0473
2	2	14	19/.0147	0.032 (0.81)	0.032 (0.81)	300V	0.326 (8.51)	29.0	—	—		8, 12, 13, 17	C2409-1000-ND	—	—	527.07	C2409
3	Blk/Red/Gn	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.163 (4.14)	23.0	—	—		5, 6, 8	C2462-1000-ND	—	—	155.99	C2462
3	4	22	7/30	0.013 (0.33)	0.037 (0.94)	300V	0.198 (5.03)	25.5	—	—		8, 15	C0432-1000-ND	—	—	210.82	C0432
3	1	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.236 (5.99)	28.0	—	—		5, 6, 8	C2831-1000-ND	—	—	313.60	C2831
4	1	24	7/32	0.010 (0.25)	0.032 (0.81	300V	0.174 (4.42)	23.0	—	—		5, 6, 8	C2463-1000-ND	—	—	185.23	C2463
4	4	18	16/30	0.015 (0.38)	0.037 (0.94)	300V	0.257 (6.53)	28.0	—	—		8, 15	C0444-1000-ND	—	—	430.85	C0444
4	2	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.258 (6.55)	28.0	—	—		5, 6, 7, 8, 16	C2404-1000-ND	—	—	432.09	C2404
4	2	16	19/.0117	0.021 (0.53)	0.032 (0.81)	300V	0.306 (7.77)	28.0	—	—		5, 6, 8	C2425-1000-ND	—	—	667.59	C2425
5	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.187 (4.75)	23.0	—	—		5, 6, 8	C2464-1000-ND	—	—	216.60	C2464
5	1	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.280 (7.11)	28.0	—	—		5, 6, 8	C2420-1000-ND	—	—	533.63	C2420
5	2	16	19/.0117	0.021 (0.53)	0.032 (0.81)	300V	0.334 (8.48)	28.0	—	—		5, 6, 8	C2434-1000-ND	—	—	839.30	C2434
6	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.200 (5.08)	23.0	—	—		5, 6, 8	C2466-1000-ND	—	—	243.98	C2466
7	1	20	7/28	0.016 (0.41)	0.032 (0.81)	300V	0.275 (6.99)	26.0	—	—		5, 6, 8	C6356-1000-ND	—	—	524.15	C6356
7	1	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.309 (7.85)	28.0	—	—		5, 6, 8	C2421-1000-ND	—	—	684.15	C2421
7	2	16	19/.0117	0.021 (0.53)	0.032 (0.81)	300V	0.364 (9.25)	28.0	—	—		5, 6, 8	C2426-1000-ND	—	—	1093.34	C2426
9	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.227 (5.77)	23.0	—	—		5, 6, 8	C2470-1000-ND	—	—	337.15	C2470
9	1	20	7/28	0.016 (0.41)	0.032 (0.81)	300V	0.317 (8.05)	26.0	—	—		5, 6, 8	C6357-1000-ND	—	—	646.35	C6357
9	1	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.358 (9.09)	28.0	—	—		5, 6, 8	C2422-1000-ND	—	—	877.55	C2422
10	1	24	7/32	0.010 (0.25)	0.032 (0.81)	300V	0.244 (6.20)	23.0	—	—		5, 6, 8	C2471-1000-ND	—	—	371.15	C2471
12	2	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.401 (10.19)	28.0	—	—		5, 6, 7, 8, 16	C2412-1000-ND	—	—	1082.93	C2412
12	2	16	19/.0117	0.021 (0.53)	0.032 (0.81)	300V	0.479 (12.17)	28.0	—	—		5, 6, 8	C2427-1000-ND	—	—	1801.23	C2427
15	2	20	7/28	0.016 (0.41)	0.032 (0.81)	300V	0.392 (9.96)	26.0	—	—		5, 6, 8	C6358-1000-ND	—	—	1053.54	C6358
15	2	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.445 (11.3)	28.0	—	—		5, 6, 8	C2423-1000-ND	—	—	1394.16	C2423
15	2	16	19/.0117	0.021 (0.53)	0.032 (0.81)	300V	0.534 (13.56)	28.0	—	—		5, 6, 7, 8, 9, 10, 12	C2428-1000-ND	—	—	2140.63	C2428
19	2	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.469 (11.91)	28.0	—	—		5, 6, 8	C2424-1000-ND	—	—	1776.12	C2424
25	2	18	16/30	0.016 (0.41)	0.032 (0.81)	300V	0.549 (13.94)	28.0	—	—		5, 6, 8	C2433-1000-ND	—	—	2221.53	C2433
PLENUM — RoHS Compliant																	
Unshielded																	
4	1	18	7/26	0.008 (0.20)	0.010 (.25)	300V	0.163 (4.14)	29.0	—	—		12, 13	C3103-1000-ND	—	—	465.62	C3103
Multi-Conductor Foil Shield																	
4	1	22	7/30 TC	0.008 (0.20)	0.015 (0.38)	150V	0.146 (3.71)	44.0	79.2	—		11, 13	C3159-1000-ND	—	—	295.78	C3159
4	1	18	7/26	0.008 (0.20)	0.010 (0.25)	150V	0.178 (4.52)	47.0	85.0	—		—	C3163-1000-ND	—	—	527.81	C3163
6	1	18	7/26 BC	0.008 (0.20)	0.015 (0.38)	150V	0.223 (5.66)	54.0	97.2	—		11, 13	C3065-1000-ND	—	—	662.49	C3065

◆ ***RoHS Compliant*** ***Note:*** Spools are not UL/CSA marked. † Length tolerance is ±1% # Length tolerance is ±10%

Round Jacketed/Shielded Twisted Pair Cable – 3644B Series

UL File No.: E118773

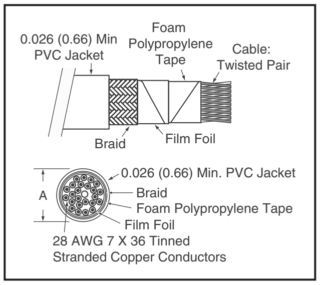
0.026 (0.66) Min PVC Jacket
Foam Polypropylene Tape
Cable: Twisted Pair
Braid
Film Foil
A
0.026 (0.66) Min. PVC Jacket
Braid
Foam Polypropylene Tape
Film Foil
28 AWG 7 X 36 Tinned Stranded Copper Conductors

PHYSICAL SPECIFICATIONS:
- Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Beige • Primary Material: Polyolefin (PO) • Shielding: 0.001" (0.03mm) Thick Aluminum/Polyester Film Foil and 90% Coverage Tinned Copper Braid

ELECTRICAL SPECIFICATIONS:
- Voltage Rating: USA: N.E.C. 725, CL2; Canada: 150V; EU: <50V • Insulation Resistance: >1 x $10^{10}\Omega$/10ft.

ENVIRONMENTAL SPECIFICATIONS:
- Temperature Rating: USA: CL2: 75°C maximum; Canada: 80°C

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 25 ft. ★	50 ft. ★	100 ft. ★
14	0.22 (5.6)	MB14T-X-ND	42.63	73.50	117.60
16	0.23 (5.8)	MB16T-X-ND	48.72	84.00	134.40
20	0.24 (6.1)	MB20T-X-ND	60.90	105.00	168.00
24	0.25 (6.4)	MB24T-X-ND	77.65	133.88	214.20
26	0.25 (6.4)	MB26T-X-ND	79.17	136.50	218.40
36	0.29 (7.4)	MB36T-X-ND	109.62	189.00	302.40
40	0.30 (7.6)	MB40T-X-ND	121.80	210.00	336.00
50	0.32 (8.1)	MB50T-X-ND	152.25	262.50	420.00
68	0.37 (9.4)	MB68T-X-ND	207.06	357.00	571.20
80	0.39 (9.9)	MB80T-X-ND	247.26	426.31	682.10
100	0.44 (11.2)	MB100T-X-ND	309.08	532.90	852.64

★ Cable available on a xxx ft. roll

Round Jacketed/Shielded Twisted Pair Cable – 3600B Series

UL File No.: E118773

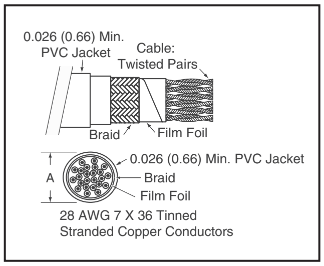
0.026 (0.66) Min. PVC Jacket
Cable: Twisted Pairs
Braid
Film Foil
A
0.026 (0.66) Min. PVC Jacket
Braid
Film Foil
28 AWG 7 X 36 Tinned Stranded Copper Conductors

PHYSICAL SPECIFICATIONS:
- Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Beige • Primary Material: PVC • Shielding: 0.001" (0.03mm) Thick Aluminum/Polyester Film Foil and 90% Coverage Tinned Copper Braid

ELECTRICAL SPECIFICATIONS:
- Voltage Rating: USA: N.E.C. 725, CL2; Canada: 150V • Insulation Resistance: >1 x $10^{10}\Omega$/10ft.

ENVIRONMENTAL SPECIFICATIONS:
- Temperature Rating: USA: CL2: 75°C maximum; Canada: 80°C

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 25 ft. ★	50 ft. ★	100 ft. ★
14	0.22 (5.6)	MB14S-X-ND	29.06	50.10	80.16
20	0.24 (6.1)	MB20S-X-ND	45.80	78.96	126.34
24	0.25 (6.4)	MB24S-X-ND	49.81	85.88	137.40
26	0.25 (6.4)	MB26S-X-ND	53.97	93.05	148.88
36	0.29 (7.4)	MB36S-X-ND	78.10	134.66	215.46
40	0.30 (7.6)	MB40S-X-ND	79.06	136.31	218.10
50	0.32 (8.1)	MB50S-X-ND	93.89	161.88	259.00
68	0.36 (9.1)	MB68S-X-ND	113.46	195.61	312.98
80	0.39 (9.9)	MB80S-X-ND	166.06	286.31	458.10
100	0.44 (11.2)	MB100S-X-ND	204.68	352.90	564.64

★ Cable available on a xxx ft. roll

AMERICAN ELECTRICAL INC.
MFG. for AMERICAN ELECTRICAL INC. by AGRO

Tight Seal IP68 Nylon Cable Grips (Glands) with Lock Nuts

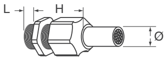

Application: The use of synthetic cable grips is almost unlimited within the electrical and electronics industry. Installations where cables must be led safely through a wall of an enclosure will be specified with cable grips. Synthetic cable grips are specified to: • Secure the cable to the enclosure's wall to provide excellent pull-out resistance. • Seal and protect the inside of the enclosure from the unwanted affects of the environment. These contaminants may be water, gas, chemical vapors, or fumes. • Reduce material cost due to use of lighter, less expensive materials, as well as, eliminating the need for running conduit.

Technical Data:
- **Material:** Polyamide PA 6, Self-Extinguishing, Halogen-free
- **Seal:** Neoprene, Oil, and Petroleum Resistant
- **Operating Temperature:** Static (-40°C ~ 100°C), Dynamic (-30°C ~ 80°C)
- **Safety Class:** IP68, Waterproof (5 Bar)
- **VDE Test Report:** 12 796-9000-4001/A 2 J

Color	Thread Type	Cable Diameter (mm)	Dim. (mm) H	L	Digi-Key Part No.	Price Each 1	10	100	American Electrical Part No.
Black	7-PG	2.5 ~ 6.5	21	8	288-1164-ND	1.65	1.49	1.16	1545.07.06
	9-PG	3.0 ~ 8.0	23	8	288-1165-ND	1.93	1.74	1.35	1545.09.08
	11-PG	4.0 ~ 10.0	22	8	288-1166-ND	2.08	1.87	1.46	1545.11.10
	11-PG	2.0 ~ 7.0	22	8	288-1167-ND	2.30	2.07	1.61	1545.11.07
	13-PG	5.5 ~ 12.0	26	9	288-1168-ND	2.40	2.16	1.68	1545.13.12
	13-PG	3.0 ~ 7.0	26	9	288-1169-ND	2.60	2.34	1.82	1545.13.07
	16-PG	8.5 ~ 14.0	30	10	288-1170-ND	2.68	2.41	1.88	1545.16.14
	16-PG	5.0 ~ 11.0	30	10	288-1171-ND	2.95	2.66	2.07	1545.16.11
	21-PG	11.0 ~ 18.0	35	11	288-1172-ND	4.25	3.83	2.98	1545.21.18
	21-PG	6.5 ~ 14.0	35	11	288-1173-ND	4.55	4.10	3.19	1545.21.14
	3/8-NPT	3.0 ~ 8.0	23	8	288-1178-ND	1.98	1.78	1.39	1545.N0375.08
	1/2-NPT	5.5 ~ 12.0	26	9	288-1179-ND	2.55	2.30	1.79	1545.N0500.12
	1/2-NPT	3.0 ~ 7.0	26	9	288-1180-ND	2.70	2.43	1.89	1545.N0500.07
	3/4-NPT	11.0 ~ 18.0	35	11	288-1181-ND	3.60	3.24	2.52	1545.N0750.18
	3/4-NPT	6.5 ~ 14.0	35	11	288-1182-ND	3.83	3.45	2.68	1545.N0750.14
	1-NPT	17.0 ~ 22.0	36	15	288-1183-ND	5.03	4.53	3.52	1545.N1000.22

Color	Thread Type	Cable Diameter (mm)	Dim. (mm) H	L	Digi-Key Part No.	Price Each 1	10	100	American Electrical Part No.
Gray	7-PG	2.5 ~ 6.5	21	8	288-1184-ND	1.65	1.49	1.16	1555.07.06
	9-PG	3.0 ~ 8.0	23	8	288-1185-ND	1.93	1.74	1.35	1555.09.08
	11-PG	4.0 ~ 10.0	22	8	288-1186-ND	2.08	1.87	1.46	1555.11.10
	11-PG	2.0 ~ 7.0	22	8	288-1187-ND	2.30	2.07	1.61	1555.11.07
	13-PG	5.5 ~ 12.0	26	9	288-1188-ND	2.40	2.16	1.68	1555.13.12
	13-PG	3.0 ~ 7.0	26	9	288-1189-ND	2.60	2.34	1.82	1555.13.07
	16-PG	8.5 ~ 14.0	30	10	288-1190-ND	2.68	2.41	1.88	1555.16.14
	16-PG	5.0 ~ 11.0	30	10	288-1191-ND	2.95	2.66	2.07	1555.16.11
	21-PG	11.0 ~ 18.0	35	11	288-1192-ND	4.25	3.83	2.98	1555.21.18
	21-PG	6.5 ~ 14.0	35	11	288-1193-ND	4.55	4.10	3.19	1555.21.14
	3/8-NPT	3.0 ~ 8.0	23	8	288-1198-ND	1.98	1.78	1.39	1555.N0375.08
	1/2-NPT	5.5 ~ 12.0	26	9	288-1199-ND	2.55	2.30	1.79	1555.N0500.12
	1/2-NPT	3.0 ~ 7.0	26	9	288-1200-ND	2.70	2.43	1.89	1555.N0500.07
	3/4-NPT	11.0 ~ 18.0	35	11	288-1201-ND	3.60	3.24	2.52	1555.N0750.18
	3/4-NPT	6.5 ~ 14.0	35	11	288-1202-ND	3.83	3.45	2.68	1555.N0750.14
	1-NPT	17.0 ~ 22.0	36	15	288-1203-ND	5.03	4.53	3.52	1555.N1000.22

Amphenol® Industrial

Cord Grips

Aluminum Body and Compression Nut with Washer and Single Hole Oil-Resistant Grommet

This small body connector is ideal for internal uses, as well as conduit hub and panelboard mounting into threaded bodies or with locknuts. Complete units listed require no other parts except cable. Suitable for use in hazardous locations per National Electric Code Class 1, Div.2; Class II, Div. 1 & 2; Class III, Div. 1 & 2. UL listed File No. E53509 and Certified File No. LR-64107.

Conduit Hub Size - Inch	Panel Hole Size - Inch	Cord Diameter Range	Dimensions - Inches A	B	C	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
90° Elbow Body, Male Thread										
1/2	7/8 NPT	.375 ~ .500	1.13	1.88†	1.44	DB-990-ND	16.93	11.85	8.81	DB-990
1/2	7/8 NPT	.500 ~ .625*	1.13	1.88†	1.44	DB-1090-ND	16.93	11.85	8.81	DB-1090
45° Elbow Body, Male Thread										
1/2	7/8 NPT	.375 ~ .500	1.13	1.31†	1.31	DB-945-ND	22.16	14.47	12.13	DB-945
1/2	7/8 NPT	.500 ~ .625	1.13	1.31†	1.31	DB-1045-ND	22.16	14.47	12.13	DB-1045

* Maximum cord size will not pass through body without removing outer jacket. † Dimension B with nut snug, grommet not compressed.

90° Elbow Body

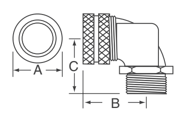

45° Elbow Body

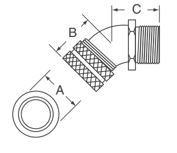

Instrumentation Control Cable

COLOR CODE CHART NO. 1

No.	Color	No.	Color
1	Black	4	Green
2	Red	5	Brown
3	White	6	Blue

COLOR CODE CHART NO. 2

No.	Color	No.	Color
1	Black, Red	2	Green, White

COLOR CODE CHART NO. 3

No.	Color	No.	Color
1	Black, Red	4	Black, Blue
2	Black, White	5	Black, Yellow
3	Black, Green	6	Black, Brown

Communications and Control Cable
Riser Sound and Security Cable

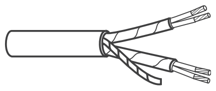

Computer Cable

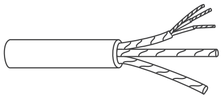

Notes:

1. Designed to Meet UL 910 Flame Test
2. CSA PCC (CSA: 60°C)
3. Passes UL 70,000 BTU Vertical Tray Flame Test
4. Passes CSA FT4 Flame Test
5. California State Fire Marshal
6. NEC CL3R (*A. Capacitance between conductors B. Cap. between 1 conductor & other conductors connected to shield)*
7. NEC Article 800 Type CM
8. UL Style 2835 (UL:60°C, 30V)
9. UL Style 2919 (UL: 80°C, 30V)
10. Passes CSA FT1 Flame Test
11. NEC Article 725 Type CL3R (UL: 75°C, 150V)
12. NEC Article 800 Type CMR (UL: 75°C, 300V)
13. NEC Article 725 Type CL3P (UL: 60°C, 150V)
14. NEC Article 800 Type CMP (UL: 60°C, 300V)

Communications and Control Cable

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33
- Twisted Pairs

Insulation:
- Premium grade color-coded PVC
- Color code: each pair black and red numbered at one inch intervals

Shield:
- 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out
- Stranded tinned copper drain wire

Jacket:
- PVC, gray
- Temperature Range: -20°C ~ 105°C

Computer Cable

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33
- Twisted Pairs

Insulation:
- Premium grade color-coded polyethylene

Shield:
- Individually shielded pairs
- 100% Flexfoil aluminum/polyester, 25% overlap, foil facing in
- Stranded tinned copper drain wire each pair

Jacket:
- PVC, gray
- Temperature Range: -20°C ~ 80°C

Riser Sound and Security Cable

Conductor:
- Stranded bare copper to ASTM B-3, B-8 and B-286

Insulation:
- Premium grade color-coded S-R PVC (E2202S Series: Premium grade color-coded Flexguard)

Shield:
- Overall polyester supported aluminum foil, plus a stranded tinned copper drain wire to facilitate grounding

Jacket:
- Premium grade, Gray PVC (E2202S: Premium grade Natural Flexguard)
- Sequential footage markings to facilitate installation
- Suitable for use from -20°C ~ 75°C (E2202S: 0°C ~ 60°C)
- Includes ripcord

No. of Pairs	Color Chart	Cond. Size (AWG)	Cond. Strand	Nominal Insulation Thickness Inch (mm)	Nominal Jacket Thickness Inch (mm)	Suggested Working Voltage	Nominal O.D. Inch (mm)	Nominal Cap. pF/FT (See Note 6 A&B)		Notes	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	500 ft.	1,000 ft.	General Cable Part No.
NON-PLENUM															
Shielded - Communication and Control Cable; Computer Cable															
2	2	22	7/30	0.008 (0.20)	0.020 (0.51)	300V	0.165 (4.19)	35.0	63.0	2, 3, 4, 7, 8	C1352-X-ND	56.85	138.02	259.81	C1352
3	3	22	7/30	0.011 (0.28)	0.032 (0.81)	30V	0.292 (7.42)	24.4	43.9	2, 3, 7, 9, 10	C6040-X-ND	95.34	241.89	468.64	C6040

No. of Cond.	Color Chart	Cond. Size (AWG)	Cond. Strand	Nominal Insulation Thickness Inch (mm)	Nominal Jacket Thickness Inch (mm)	Suggested Working Voltage	Nominal O.D. Inch (mm)	Nominal Cap. pF/FT	Notes	Digi-Key Part No.	Price Per Roll 1,000 ft.	General Cable Part No.
NON-PLENUM												
Unshielded - Riser Sound and Security Cable												
2	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.122 (3.10)	—	5, 11, 12	E1002S-1000-ND	86.36	E1002S.30.10
4	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.141 (3.58)	—	5, 11, 12	E1004S-1000-ND	155.74	E1004S.30.10
6	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.164 (4.17)	—	5, 11, 12	E1006S-1000-ND	215.95	E1006S.30.10
2	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.156 (3.96)	—	11, 12	E1032S-1000-ND	157.56	E1032S
4	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.187 (4.75)	—	11, 12	E1034S-1000-ND	283.25	E1034S
2	1	16	19/.0117	0.009 (0.23)	0.015 (0.38)	300V	0.178 (4.52)	—	5, 11, 12	E1042S-500-ND*	122.35	E1042S.18.10
4	1	16	19/.0117	0.010 (0.25)	0.015 (0.38)	300V	0.209 (5.31)	—	11, 12	E1044S-1000-ND	438.23	E1044S
2	1	14	19/.0147	0.013 (0.33)	0.015 (0.38)	300V	0.223 (5.66)	—	6, 11, 12	E1052S-1000-ND	337.49	E1052S
2	1	12	19/.0185	0.009 (0.23)	0.015 (0.38)	300V	0.260 (6.60)	—	6, 11, 12	E1062S-1000-ND	518.71	E1062S
Shielded - Riser Sound and Security Cable												
2	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.127 (3.23)	—	11, 12	E2002S-1000-ND	132.69	E2002S
4	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.146 (3.71)	—	11, 12	E2004S-1000-ND	204.14	E2004S
6	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.173 (4.39)	—	5, 11, 12	E2006S-1000-ND	271.14	E2006S.30.10
2	1	20	7/28	0.008 (0.20)	0.015 (0.38)	300V	0.139 (3.53)	—	5, 11, 12	E2022S-1000-ND	169.97	E2022S.30.10
2	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.164 (4.17)	—	11, 12	E2032S-1000-ND	197.62	E2032S
3	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.173 (4.39)	—	11, 12	E2033S-1000-ND	297.02	E2033S
4	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.191 (4.85)	—	11, 12	E2034S-1000-ND	377.30	E2034S
2	1	16	19/.0117	0.010 (0.25)	0.015 (0.38)	300V	0.189 (4.80)	—	11, 12	E2042S-1000-ND	330.24	E2042S
2	1	14	19/.0147	0.013 (0.33)	0.015 (0.38)	300V	0.245 (6.22)	—	11, 12	E2052S-1000-ND	450.00	E2052S
PLENUM												
Shielded - Riser Sound and Security Cable												
3	1	18	7/26	0.008 (0.20)	0.015 (0.38)	300V	0.168 (4.27)	—	1, 5, 13, 14	E2203S-1000-ND	361.12	E2203S.30.86

* This item comes in a 500 ft. roll.

Shielded Microphone Cable

CONDUCTOR: Type 1: Fully annealed stranded tinned copper/ ASTM B-33. **Type 2:** Fully annealed stranded bare copper per ASTM B-33.
INSULATION: Type 1:Premium grade color coded polypropylene. **Type 2:** Premium grade color coded rubber.
COLOR CODES: See chart.
SHIELD: Type 1: Conductive tape applied over the core; 100% Flexfoil aluminum/polyester 25% overlap, foil facing in; stranded tinned copper drain wire. **Type 2:** 80% tinned copper braid.
JACKET: Type 1: PVC, Black -20°C ~ 75°C, 200 voltage rating **Type 2:** Black Rubber -20°C ~ 60°C, 300 voltage rating **Type 3:** Carolprene, Black -20°C ~ 60°C, 300 voltage rating
FEATURES: Note 1: Excellent shielding to reduce noise **Note 2:** Precision engineered to transmit clear, noise-free signals **Note 3:** Eliminates hum pick-up **Note 4:** Resistant to oil, acid, sunlight, abrasion, and aging **Note 5:** Extreme noise reflection **Note 6:** Provides extra limpness **Note 7:** Low impedance **Note 8:** High impedance

Conductor Type 1

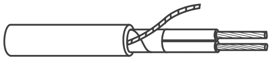

Conductor Type 2

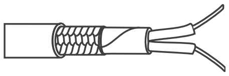

COLOR CODE CHART 1			
Conductor	Color	Conductor	Color
1	Black	2	Red

COLOR CODE CHART 2			
Conductor	Color	Conductor	Color
1	White	2	Black

Cond. Type	Cond. Size (AWG.)	Cond. Strand	Insul. Type	Color Code Chart	Shield Type	Jacket Type	Features (Note No.)	No. of Cond.	Nom. Jacket Thickness Inch (mm)	Nom. Insulation Thickness Inch (mm)	Nominal O.D. Inch (mm)	Nom. Cap. pF/ft. A/B	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.†	500 ft.#	1,000 ft.#	General Cable Part No.
1	24	19/36	1	1	1	1	1	2	0.020 (.51)	0.008 (.20)	0.135 (3.43)	30/58	C1228-X-ND	50.55	166.89	223.17	C1228
2	20	26/34	2	2	2	2	2, 3, 6, 8	1	0.035 (.89)	0.040 (1.02)	0.230 (5.84)	B = 42	C1300-X-ND◆	83.72	—	403.17	C1300
	20	26/34	2	2	2	2	2, 3, 6, 7	2	0.035 (.89)	0.020 (.51)	0.270 (6.86)	B = 50	C1302-X-ND◆‡	120.13	451.55	608.39	C1302
	18	41/34	2	2	2	3	2, 3, 4, 5, 7	2	0.035 (.89)	0.020 (.51)	0.295 (7.49)	B = 61	C1202-X-ND‡	136.56	518.74	700.97	C1202
	16	65/34	2	2	2	3	2, 3, 4, 5, 7	2	0.035 (.89)	0.025 (.64)	0.335 (8.51)	B = 55	C1602-100-ND◆‡	147.48	—	—	C1602

◆ ***RoHS Compliant*** † Length tolerance is ±1% # Length tolerance is ±10% ‡ High and low impedance cable **A** = Conductor to conductor **B** = One conductor and other conductor connected to shield

Coaxial Cable

Fig. 1

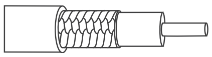

Fig. 2

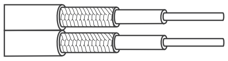

Fig. 3

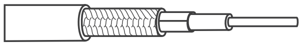

Fig. 4

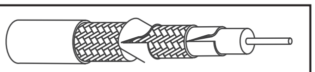

Fig. 5

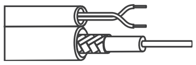

Fig. 6

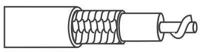

Fig. 7

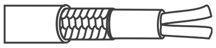

W303-X-ND IBM Eqv.: #7362211

Fig.	RG Type	Conductor Size (AWG)	Jacket Type	Core O.D. Inch (mm)	Shield Type	Nominal O.D. Inch (mm)	Imped-ance (Ω)	Capacitance pF/FT (pF/M)	Digi-Key Part No	(X = No. of Ft. Per Roll) Price Per Roll 100 ft. (†, ◊)	500 ft. (#)	1000 ft. (#)	General Cable Part No.
RG-58													
1	58/U	20 (Solid BC)	Black PVC	0.116 (2.95)	95% TC Braid	0.195 (4.95)	50	30.00 (98.43)	W300-X-ND	47.86	155.89	207.52	C1166
	58/U	20 (19X.0071)(TC)	Black PVC	0.116 (2.95)	95% TC Braid	0.195 (4.95)	50	31.80 (104.34)	C1178-X-ND◆	52.07	—	232.02	C1178.21.01
	58/U Plenum	19 (Solid BC)	Flexguard/ White	0.102 (2.59)	95% TC Braid	0.161 (4.09)	50	25.00 (82.00)	C3519-X-ND	90.52	—	441.50	C3519.41.02
RG-59													
1	59/U	22 (Solid CCS)	Black PVC	0.146 (3.71)	70% BC Braid	0.242 (6.15)	80	16.3 (53.48)	C1112-X-ND	58.14	146.21	—	C1112
	59/U Plenum	20 (Solid CCS)	Flexguard/ Natural	0.145 (3.68)	95% BC Braid	0.201 (5.11)	75	16.50 (54.14)	C3500-X-ND	101.68	—	498.65	C3500
2	59/U Dual	23 (Solid CCS)	Black PVC	0.146 (3.71)	100% Flexfoil® + 95% TC Braid	0.242x0.498 (6.15x12.65)	73	21.00 (68.90)	C8005-X-ND◆	—	—	684.33	C8005
RG-6													
3	6/U‡	18 (Solid CCS)	Black PVC	0.177 (4.50)	100% Flexfoil + 60% Alum. Braid	0.263 (6.8)	75*√	16.20 (53.15)*√	C5775-X-ND◆	26.90	48.13	—	C5775
	6/U	18 (Solid CCS)	Black PVC	0.177 (4.50)	100% Flexfoil® Bonded +60% Alum. Braid with Water Block 9.0Ω/M	0.263 (6.68)	75	16.20 (53.15)	C5886-1000-ND	—	—	105.83	C5886.30.01
4	6/U Quad Shield	18 (Solid CCS)	Black PVC	0.177 (4.50)	100% Flexfoil® + (1) 60%+ (1)40% Alum. Braid	0.292 (7.42)	75	16.20 (53.15)	C5785-1000-ND◆	—	—	117.57	C5785
5	6/U w/Unshielded pair	18 (Solid BC) 18 (7x26) pair	Black PVC	0.177 (4.50)	100% Flexfoil® + 95% TC Braid	0.270x0.493 (6.86x12.52)	75	16.20 (53.15)	C8029-1000-ND◆	—	—	484.92	C8029.41.01
Various Types													
1	8/U	13 (7X21)(BC)	Black PVC	0.285 (7.24)	95% BC Braid	0.405 (10.29)	52	29.50 (96.79)	C1154-X-ND	134.03	—	681.01	C1154.41.01
	62/U Plenum	22 (Solid CCS)	Flexguard/ Natural	0.145 (3.56)	95% BC Braid	0.201 (5.11)	93	13.00 (42.65)	C3520-100-ND	84.22	—	—	C3520
	174/U	26 (7X34)(CCS)	Black PVC	0.060 (1.52)	95% TC Braid	0.103 (2.62)	50	30.80 (101.05)	C1156-X-ND	37.20	—	150.03	C1156.21.01
	213/U	13 (7X21)(BC)	Black PVC	0.285 (7.24)	95% BC Braid	0.405 (10.29)	50	30.80 (101.05)	C1176-X-ND◆	148.13	—	735.93	C1176.41.01
6	62/U	22 (Solid CCS)	Black PVC	0.146 (3.66)	95% BC Braid	0.242 (6.15)	93	13.60 (44.62)	W302-X-ND	73.43	—	356.30	C1164
Twin Coaxial													
7	—	20(7x28)(1)TC + (1)BC	Black PVC	0.022 (0.56)	100% Flexfoil® + 90% TC Braid	0.330 (8.38)	100	15.50 (50.86)	W303-X-ND	74.26	—	543.04	C8000

◆ ***RoHS Compliant*** † Length tolerance is ±1% # Length tolerance is ±10% ‡ NEC Type CL2-CATV √ Recommended for CATV applications ◊ 100 ft. spools are not UL marked * 100% Sweep Tested @ Frequency Band: 0 ~ 400MHz

Paladin Tools® *NEW!* SealTite® Pro Crimper

Description	Digi-Key Part No.	Price Each	Paladin Part No.
SealTite Pro Crimper	PAL1555-ND	69.99	1555

Easily crimps all compression connectors with a single tool. Reversible Head to accommodate CATV "F", BNC and RCA Connectors

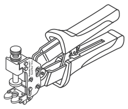

Cable Stripping Tools

Fig.	Description	Digi-Key Part No.	Price Each	Paladin Part No.
3 Level Coaxial Cable Stripper				
1	Adjustable with Green Cassette	PA1240-ND	79.99	1240
1	Adjustable with Brown Cassette	PA1243-ND	79.99	1243
—	Replacement Blade for PA1240	PA2240-ND	29.99	2240
—	Replacement Blade for PA1243	PA2243-ND	29.99	2243
Cutter and Stripper for UTP and STP Cables				
2	Cable Stripper	PAL1112-ND	27.99	1112

Fig. 1

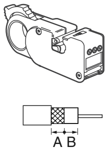

Coaxial stripping tool producing 2 and 3 level strips in cables from .100" ~ .315" (2.54 ~ 8mm) dia. Replacement blades and easy adjustment, make this tool the perfect choice.

Cassette Type	Dim. (mm) A	B
Green Cassette	7.09	5.11
Brown Cassette	7.49	3.48

Fig. 2

AM12 Multi-level adjustable cable stripper.

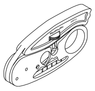

LC CST Strippers

Coaxial stripping tool producing 2 and 3 level stripping of outer jacket, shield braid and inner dielectric. Hex key makes it easy to adjust the blades to set the cutting depth. Self-regulating tensions. Pre-set strip lengths for most common lengths.

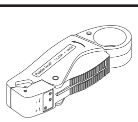

Preset Strip Lengths	Strip Types	Cable Usage	Digi-Key Part No.	Price Each	Paladin Part No.
0.315" Outer Jacket; 0.157" Inner Dielectric	2 & 3 Level Adjustable	RG58/59/62/6 and AU	PAL1255.1-ND	17.99	1255.1
0.236" Outer Jacket	2-Level	RG59/6/6 QUAD CATV "F"	PAL1257.1-ND	17.99	1257.1
0.344" Outer Jacket; 0.094" Inner Dielectric	2 & 3 Level Adjustable	RG178, 735A, Belden 8218 and other smaller cables	PAL1258-ND ***NEW!***	17.99	1258

General Cable CAROL® BRAND Multiconductor Cable

Braid Shield

Construction: • Insulation: Premium grade color coded polyethylene • Shield: 80% tinned copper braid • Jacket: PVC, Gray

Temperature Range: -20°C ~ 80°C

Suggested Voltage Rating: 300V

Features: • Low capacitance • Lightweight • Excellent shielding for noise reduction

Compliances: • UL 80°C, 300V • Designed to meet UL VW-1 Vertical Wire Flame Test

Rubber Braid Shield

Construction: • Insulation: Premium grade color coded rubber • Shield: 80% Tinned copper braid • Jacket: Rubber, Black

Temperature Range: -20°C ~ 60°C

Suggested Voltage Rating: 300V

Features: • Impact and abrasion resistant • Stranded conductors for superior flexibility

Carolprene® Braid Shield

Construction: Insulation: Premium grade color coded rubber • Shield: 80% tinned copper braid • Jacket: Carolprene, Black

Temperature Range: -20°C ~ 60°C

Suggested Voltage Rating: 300V

Features: • Impact and abrasion resistant • Stranded conductors for superior flexibility

Compliances: Designed to meet UL VW-1 Vertical Wire Flame Test

Carolprene® Unshielded, Water Resistant

Construction: Jacket: Carolprene, Black

Temperature Range: -40°C ~ 90°C

Suggested Voltage Rating: 300V

Features: • Resistance to oil and moisture • High flexibility • Water resistant

Compliances: UL, CSA, MSHA

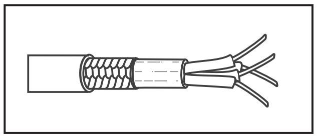

COLOR CODE CHART 1	
No. of Conductors	**Color**
4	Green
6	Blue

COLOR CODE CHART 2	
No. of Conductors	**Color**
3	Red
4	Green
5	Blue
6	Brown
7	Yellow

COLOR CODE CHART 3	
No. of Conductors	**Color**
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green

No. of Conductors	Color Code Chart	Conductor Size (AWG)	Conductor Strand	Nominal Insulation Thickness Inch (mm)	Nominal Jacket Thickness Inch (mm)	Nominal O.D. Inch (mm)	Digi-Key Part No.	Price Per Roll 1,000 ft.	General Cable Part No.
Braid Shield									
4	1	20	26/34	0.015 (0.38)	0.029 (0.74)	0.255 (6.48)	C1644-1000-ND	586.23	C1644
6					0.029 (0.74)	0.294 (7.47)	C1646-1000-ND	776.39	C1646
Rubber, Braid Shield									
3	2	20	26/34	0.020 (0.51)	0.035 (0.89)	0.285 (7.24)	C1304-1000-ND	664.14	C1304
4					0.035 (0.89)	0.300 (7.62)	C1305-1000-ND	789.68	C1305
5					0.035 (0.89)	0.330 (8.38)	C1308-1000-ND	945.24	C1308
6					0.035 (0.89)	0.340 (8.64)	C1310-1000-ND	1026.90	C1310
7					0.035 (0.89)	0.355 (9.02)	C1312-1000-ND	1127.31	C1312
Carolprene, Braid Shield									
3	2	18	41/34	0.020 (0.51)	0.035 (0.89)	0.305 (7.75)	C1203-1000-ND	732.44	C1203
4					0.035 (0.89)	0.330 (8.38)	C1204-1000-ND	1070.28	C1204
6					0.035 (0.89)	0.370 (9.39)	C1206-1000-ND	1173.50	C1206
3	2	16	65/34	0.025 (0.64)	0.035 (0.89)	0.355 (9.02)	C1603-1000-ND	1009.74	C1603
4					0.035 (0.89)	0.385 (9.78)	C1604-1000-ND	1210.29	C1604
6					0.040 (1.02)	0.445 (11.3)	C1606-1000-ND	1595.96	C1606
Carolprene, Unshielded, Water Resistant									
3	3	16	26/30	0.030 (0.76)	0.039 (1.00)	0.330 (8.38)	C01342-250-ND	140.96	01342.15.01

alpha Multiconductor Cable

Multiconductor Unshielded

Description:

22 AWG (0.35mm²), 7/30 (7 x 0.25mm), Insulation thickness: 0.010" (0.25mm)

Characteristics:

• Temp. Range: -20°C ~ 80°C (AWM), 75°C (CL2) • Voltage Rating: 150 Volt (AWM, CL2) • Conductor: Stranded tinned copper • Insulation: Color coded PVC • Tape: Clear polyester wrap • Jacket: Gray PVC

Specifications:

• Flammability: Passes UL vertical tray flame test

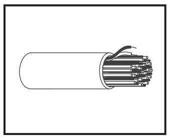

Color Code Chart					
No. of Cond.	**Color**	**No. of Cond.**	**Color**	**No. of Cond.**	**Color**
1	Black	6	Blue	11	Pink
2	Red	7	Brown	12	Tan
3	White	8	Yellow	13	Red/Green
4	Green	9	Violet	14	Red/Yellow
5	Orange	10	Gray	15	Red/Black

No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
Multiconductor Unshielded Cable							
2	.032 (.81)	.16 (4.06)	A120-X-ND◆	42.53	136.80	226.46	1172C-X
3	.032 (.81)	.17 (4.32)	A121-X-ND◆	55.58	183.60	303.19	1173C-X
4	.032 (.81)	.19 (4.83)	A122-X-ND◆	61.54	208.58	380.59	1174C-X
5	.032 (.81)	.20 (5.08)	A123-X-ND◆	74.48	265.95	479.70	1175C-X
6	.032 (.81)	.21 (5.33)	A124-X-ND◆	81.45	309.04	583.43	1176C-X
7	.032 (.81)	.21 (5.33)	A125-X-ND◆	88.76	327.38	664.09	1177C-X
8	.032 (.81)	.22 (5.59)	A126-X-ND◆	105.98	375.98	753.30	1178C-X
9	.032 (.81)	.25 (6.35)	A127-X-ND	105.98	403.88	775.46	1179C-X
10	.032 (.81)	.26 (6.60)	A128-X-ND◆	123.75	459.11	909.23	1180C-X
12	.032 (.81)	.28 (7.11)	A129-X-ND◆	180.56	676.80	1281.38	1181C-X
15	.032 (.81)	.30 (7.62)	A130-X-ND◆	248.96	979.88	1537.43	1181/15C-X

◆ ***RoHS Compliant***

Individually Foil Shielded Multipair

Description:

22 AWG (0.35mm²), 7/30 (7 x 0.25mm), Insulation thickness 0.010" (0.25mm)

Characteristics:

• Temperature Range: -20°C ~ 60°C (AWM, CL2) • Voltage Rating: 300 Volts (150 Volts - CL2) • Conductor: Stranded tinned copper • Insulation: Color-coded polypropylene (PP) • Shield: (Individual pairs) Aluminum/polyester tape, foil facing inward • Drain Wire: 22 AWG stranded tinned copper • Jacket: PVC, gray

Specifications:

• Flammability: Passes UL vertical tray flame test

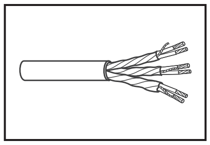

Color Code Chart					
No. of Cond. Pair	**Color**	**No. of Cond. Pair**	**Color**	**No. of Cond. Pair**	**Color**
1	Black/Red	10	Red/Blue	19	White/Blue
2	Black/White	11	Red/Yellow	20	White/Brown
3	Black/Green	12	Red/Brown	21	White/Orange
4	Black/Blue	13	Red/Orange	22	White/Yellow
5	Black/Brown	14	Green/Blue	23	Blue/Brown
6	Black/Yellow	15	Green/White	24	Blue/Orange
7	Black/Orange	16	Green/Brown	25	Blue/Yellow
8	Red/Green	17	Green/Orange	26	Brown/Orange
9	Red/White	18	Green/Yellow	27	Brown/Yellow

No. of Cond. Pair	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
Individually Foil Shielded Multipair Cable							
3	.045 (1.14)	.31 (7.87)	A132-X-ND◆	90.40	361.04	645.68	6010C-X
6	.045 (1.14)	.39 (9.91)	A133-X-ND◆	171.76	678.32	1290.48	6012C-X
9	.045 (1.14)	.46 (11.68)	A134-X-ND◆	444.56	1635.04	2675.20	6014C-X
11	.045 (1.14)	.48 (12.19)	A135-100-ND◆	506.80	—	—	6016C-X
12	.045 (1.14)	.48 (12.19)	A136-X-ND	670.80	2325.68	3635.92	6017C-X
15	.060 (1.52)	.56 (14.22)	A137-X-ND	696.32	2548.48	—	6018C-X
17	.060 (1.52)	.61 (15.49)	A138-X-ND	943.04	4233.84	—	6019C-X
19	.060 (1.52)	.63 (16.00)	A139-X-ND	929.28	3393.60	—	6020C-X
27	.060 (1.52)	.68 (17.27)	A140-100-ND◆	1701.68	—	—	6022C-X

◆ ***RoHS Compliant***

(Continued)

Multiconductor Cable *(Cont.)*

Multipair Individually Shielded

Twisted Pair

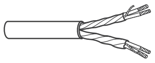

Description: • CL2, CM rated, 75°C, 300V • 22 AWG (0.35 mm²), 7/30 (7 x 0.25mm), Insulation thickness: 0.010” (0.25mm)
Characteristics: • Temperature Range: -20°C ~ 75°C • Voltage Rating: 300 Volt • Conductor: Stranded tinned copper • Insulation: Polyproylene (PP) • Shield: Aluminum/polyester tape • Drain Wire: Stranded tinned copper • Gray PVC jacket

Color Code Chart	
No. of Cond. Pair	Color
1	Red/Black
2	Green/White

No. of Cond. Pair	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
Multipair Individually Shielded Cable							
2	.020 (.51)	.17 (4.32)	A131-X-ND	57.92	226.00	337.20	2466C-X

Multiconductor Foil / Braid Shielded

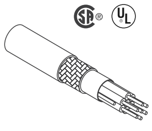

Description: 28 AWG (0.089mm^2), 7/36 (7 x 0.13mm), Insulation thickness: 0.010” (0.25mm)
Characteristics: • Operating Temperature Range: -20°C ~ 80°C (AWM), +75°C (CL2) • Voltage Rating: 300 volts (AWM), 150 volts (CL2) • Conductor: Stranded tinned copper • Insulation: Color-coded semi-rigid PVC • Shield: Aluminum/polyester/aluminum plus overall braid of tinned copper • Drain Wire: 28 AWG 7/36 tinned copper • Jacket: PVC, chrome gray
Specifications: • UL Type CL2, AWM 2464 • CSA, CMG, PCC, FT4 • Flammability: Passes UL vertical tray flame test

Color Code Chart					
No. of Cond.	Color	No. of Cond.	Color	No. of Cond.	Color
1	Black	10	Gray	19	White/Yellow
2	Red	11	Pink	20	White/Blue
3	White	12	Tan	21	White/Brown
4	Green	13	Red/Green	22	White/Orange
5	Orange	14	Red/Yellow	23	White/Gray
6	Blue	15	Red/Black	24	White/Violet
7	Brown	16	White/Black	25	White/Black/Red
8	Yellow	17	White/Red		
9	Violet	18	White/Green		

No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	1,000 ft.	Alpha Part No.
Multiconductor Foil/Braid Shielded Cable						
6	.035 (.89)	.19 (5.0)	A3466C-X-ND	313.43	1466.56	3466C-X
7	.035 (.89)	.19 (5.0)	A3467C-X-ND◆	343.69	1609.28	3467C-X
15	.035 (.89)	.26 (6.6)	A3470/15C-X-ND	621.11	2910.56	3470/15C-X
25	.035 (.89)	.30 (7.7)	A3470/25C-X-ND	1170.90	2708.16	3470/25C-X

◆ ***RoHS Compliant***

Multiconductor Braid Shielded

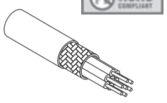

Description: 28 AWG (0.09mm²), 7/36 (7 x 0.13mm), Insulation thickness: 0.010” (0.25mm) PVC - Type B
Characteristics: • Operating Temperature Range: -55°C ~ 105°C • Voltage Rating: 600 Volt • Conductor: Stranded tinned copper • Shield: Braided tinned copper (90% coverage) • Insulation: Color-coded PVC • Jacket: PVC, gray
Specifications: • MIL-W-16878D Type B

Color Code Chart					
No. of Cond.	Color	No. of Cond.	Color	No. of Cond.	Color
1	Black	6	Blue	11	Blue/Black
2	White	7	White/Black	12	Black/White
3	Red	8	Red/Black	13	Red/White
4	Green	9	Green/Black	14	Green/White
5	Orange	10	Orange/Black	15	Blue/White

No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	1,000 ft.	Alpha Part No.
Multiconductor Braid Shielded Cable						
2	.012 (.30)	.12 (3.1)	A3302-X-ND◆	432.23	2035.28	3302-X
3	.012 (.30)	.13 (3.3)	A3303-X-ND	605.59	2718.24	3303-X
4	.012 (.30)	.14 (3.5)	A3304-X-ND	738.56	3315.36	3304-X
6	.015 (.38)	.17 (4.3)	A3306-X-ND	1006.88	4523.44	3306-X
8	.015 (.38)	.17 (4.4)	A3308-X-ND◆	1145.59	5149.92	3308-X
15	.020 (.50)	.23 (5.8)	A3315-X-ND	1961.33	9246.48	3315-X

◆ ***RoHS Compliant***

Multiconductor Braid Shielded

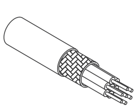

Description: Insulation thickness: 0.010” (0.25mm) - PVC, 0.003” (0.08mm) Nylon-Type B/N
Characteristics: • Operating Temperature Range: -55°C ~ 105°C • Voltage Rating: 600 volts • Conductor: Stranded tinned copper • Shield: Braided tinned copper (90% coverage) • Insulation: Color-coded PVC • Jacket: PVC, gray
Specifications: • MIL-W-16878D Type B/N • MIL-DTL-16878/17 Nylon (Conductor only)

Color Code Chart	
No. of Cond.	Color
1	White
2	Black
3	Red
4	Green

No. of Cond.	Jacket Conductor AWG	Strand	Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	1,000 ft.	Alpha Part No.
Multiconductor Braid Shielded Cable								
3	24	19/36	.016 (0.41)	.16 (4.0)	A3212-X-ND◆	292.05	1252.64	3212-X
4	24	19/36	.017 (0.43)	.18 (4.6)	A3213-X-ND	348.86	1449.68	3213-X
2	22	19/34	.016 (0.41)	.18 (4.6)	A3221-X-ND◆	188.89	788.80	3221-X
3	22	19/34	.017 (0.43)	.18 (4.6)	A3222-X-ND◆	231.41	984.48	3222-X
4	22	19/34	.019 (0.48)	.20 (5.1)	A3223-X-ND◆	266.96	1137.36	3223-X
2	20	19/32	.019 (0.48)	.19 (4.8)	A3231-X-ND◆	215.33	936.64	3231-X
3	20	19/32	.019 (0.48)	.21 (5.3)	A3232-X-ND	268.88	1137.36	3232-X
4	20	19/32	.021 (0.53)	.23 (5.9)	A3233-X-ND	329.63	1395.44	3233-X

◆ ***RoHS Compliant***

Multiconductor Cable — XTRA-Guard® 1

Operating Temperature: -20°C ~ 80°C - AWM; -20°C ~ 105°C - CM, CMG
Voltage Rating: 300 Volt
Jacket Color: Gray (Other colors available per request)
Description: • Conductor: Stranded tinned copper • Insulation: Color-coded premium PVC • **SUPRASHIELD:** Aluminum/Polyester/Aluminum Foil with stranded tinned copper drain wire equal in size to insulated conductors of cable plus 70% overall braid of tinned copper • Nylon rip cord for ease of jacket stripping • Jacket: Premium PVC • Insulation Thickness: 22AWG: 0.010: (0.25mm); 20AWG, 18AWG and 16 AWG: 0.016” (0.41mm)
Specifications: • UL Type CM, AWM Style 2464 • CSA, CMG, PCC, FT4 • Passes UL VW-1 Flame Test • Passes CSA FT4 Flame Test

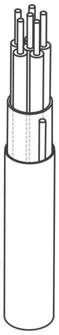

Color Code Chart A											
Cond. No.	Base Color	1st Stripe	2nd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe
1	Black	—	—	21	White	Brown	—	41	White	Green	Red
2	Red	—	—	22	White	Orange	—	42	White	Green	Green
3	White	—	—	23	White	Gray	—	43	White	Green	Blue
4	Green	—	—	24	White	Violet	—	44	White	Green	Brown
5	Orange	—	—	25	White	Black	Red	45	White	Green	Violet
6	Blue	—	—	26	White	Black	Green	46	White	Blue	Black
7	Brown	—	—	27	White	Black	Yellow	47	White	Blue	Red
8	Yellow	—	—	28	White	Black	Blue	48	White	Blue	Green
9	Violet	—	—	29	White	Black	Brown	49	White	Blue	Blue
10	Gray	—	—	30	White	Black	Orange	50	White	Blue	Brown
11	Pink	—	—	31	White	Black	Gray	51	White	Blue	Violet
12	Tan	—	—	32	White	Black	Violet	52	White	Brown	Black
13	Red	Green	—	33	White	Black	Black	53	White	Brown	Red
14	Red	Yellow	—	34	White	Red	Black	54	White	Brown	Green
15	Red	Black	—	35	White	Red	Red	55	White	Brown	Blue
16	White	Black	—	36	White	Red	Green	56	White	Brown	Brown
17	White	Red	—	37	White	Red	Blue	57	White	Brown	Violet
18	White	Green	—	38	White	Red	Brown	58	White	Violet	Red
19	White	Yellow	—	39	White	Red	Violet	59	White	Violet	Green
20	White	Blue	—	40	White	Green	Black	60	White	Violet	Blue

Color Code Chart B														
Cond. No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe
1	Black	—	—	—	25	White	Black	Blue	—	49	White	Yellow	Gray	—
2	Brown	—	—	—	26	White	Black	Violet	—	50	White	Green	Blue	—
3	Red	—	—	—	27	White	Black	Gray	—	51	White	Green	Violet	—
4	Orange	—	—	—	28	White	Brown	Red	—	52	White	Green	Gray	—
5	Yellow	—	—	—	29	White	Brown	Orange	—	53	White	Blue	Violet	—
6	Green	—	—	—	30	White	Brown	Yellow	—	54	White	Blue	Gray	—
7	Blue	—	—	—	31	White	Brown	Green	—	55	White	Violet	Gray	—
8	Violet	—	—	—	32	White	Brown	Blue	—	56	White	Black	Brown	Red
9	Gray	—	—	—	33	White	Brown	Violet	—	57	White	Black	Brown	Orange
10	White	—	—	—	34	White	Brown	Gray	—	58	White	Black	Brown	Yellow
11	White	Black	—	—	35	White	Red	Orange	—	59	White	Black	Brown	Green
12	White	Brown	—	—	36	White	Red	Yellow	—	60	White	Black	Brown	Blue
13	White	Red	—	—	37	White	Red	Green	—	61	White	Black	Brown	Violet
14	White	Orange	—	—	38	White	Red	Blue	—	62	White	Black	Brown	Gray
15	White	Yellow	—	—	39	White	Red	Violet	—	63	White	Black	Red	Yellow
16	White	Green	—	—	40	White	Red	Gray	—	64	White	Black	Red	Green
17	White	Blue	—	—	41	White	Orange	Yellow	—	65	White	Black	Red	Blue
18	White	Violet	—	—	42	White	Orange	Green	—	66	White	Black	Red	Violet
19	White	Gray	—	—	43	White	Orange	Blue	—	67	White	Black	Red	Gray
20	White	Black	Brown	—	44	White	Orange	Violet	—	68	White	Black	Orange	Yellow
21	White	Black	Red	—	45	White	Orange	Gray	—	69	White	Black	Orange	Green
22	White	Black	Orange	—	46	White	Yellow	Green	—	70	White	Black	Orange	Blue
23	White	Black	Yellow	—	47	White	Yellow	Blue	—					
24	White	Black	Green	—	48	White	Yellow	Violet	—					

Color Chart	No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Price Per Roll (Roll Size = 100 ft.) 1 Roll	5 Rolls	Alpha Part No.
Multiconductor, Unshielded							
16 AWG (1.23mm^2) 19/0.0117 (19 x 0.29mm)							
A	2	.032 (.81)	.26 (6.5)	A5072C-100-ND◆	415.80	369.60	5072C SL005
	2	.032 (.81)	.26 (6.5)	A5072/1C-100-ND◆*	415.80	369.60	5072/1C SL005
	3	.032 (.81)	.29 (7.4)	A5073C-100-ND	552.04	490.70	5073C SL005
	3	.032 (.81)	.29 (7.4)	A5073/1C-100-ND◆*	552.04	490.70	5073/1C SL005
	4	.032 (.81)	.32 (8.1)	A5074C-100-ND◆	692.10	615.20	5074C SL005
	6	.032 (.81)	.37 (9.3)	A5076C-100-ND◆	985.28	875.80	5076C SL005
	8	.032 (.81)	.41 (10.4)	A5078C-100-ND◆	1324.46	1177.30	5078C SL005
	10	.032 (.81)	.44 (11.3)	A5080C-100-ND	1714.73	1524.20	5080C SL005
	20	.053 (1.35)	.63 (15.9)	A5080/20C-100-ND	3081.60	2739.20	5080/20C SL005
A	25	.053 (1.35)	.68 (17.3)	A5080/25C-100-ND	3847.50	3420.00	5080/25C SL005
	30	.053 (1.35)	.73 (18.6)	A5080/30C-100-ND	4527.00	4024.00	5080/30C SL005
	40	.083 (2.11)	.88 (22.5)	A5080/40C-100-ND	6696.79	5952.70	5080/40C SL005
	50	.083 (2.11)	.96 (24.5)	A5080/50C-100-ND	8267.63	7349.00	5080/50C SL005
18 AWG (0.81mm^2) 16/30 (16 x 0.25mm)							
A	2	.032 (.81)	.23 (5.8)	A5062C-100-ND◆	326.81	290.50	5062C SL005
	2	.032 (.81)	.23 (5.8)	A5062/1C-100-ND*	326.81	290.50	5062/1C SL005
	3	.032 (.81)	.24 (6.1)	A5063C-100-ND	415.80	369.60	5063C SL005

◆ ***RoHS Compliant*** * Conductors color coded per international standards: Brown, Blue, Green/Yellow

(Continued)

Multiconductor Cable — XTRA-Guard® 1 *(Cont.)*

Color Chart	No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Price Per Roll (Roll Size = 100 ft.) 1 Roll	Price Per Roll (Roll Size = 100 ft.) 5 Rolls	Alpha Part No.
A	3	.032 (.81)	.24 (6.1)	A5063/1C-100-ND*	415.80	369.60	5063/1C SL005
	4	.032 (.81)	.26 (6.6)	A5064C-100-ND◆	492.98	438.20	5064C SL005
	6	.032 (.81)	.31 (7.9)	A5066C-100-ND◆	768.38	683.00	5066C SL005
	8	.032 (.81).	33 (8.4)	A5068C-100-ND◆	921.71	819.30	5068C SL005
	50	.053 (1.35)	.79 (20.0)	A5070/50C-100-ND	5530.39	4915.90	5070/50C SL005
20 AWG (0.56mm^2) 7/28 (7 x 0.32mm)							
A	2	.032 (.81)	.21 (5.3)	A5052C-100-ND◆	250.99	223.10	5052C SL005
	3	.032 (.81)	.23 (5.9)	A5053C-100-ND◆	310.28	275.80	5053C SL005
	4	.032(.81)	.25 (6.5)	A5054C-100-ND◆	368.89	327.90	5054C SL005
	6	.032 (.81)	.29(7.4)	A5056C-100-ND◆	497.70	442.40	5056C SL005
	8	.032(.81)	.32(8.2)	A5058C-100-ND◆	584.10	519.20	5058C SL005
	10	.032 (.81)	.35 (8.8)	A5060C-100-ND◆	676.35	601.20	5060C SL005
	30	.032 (.81)	.53 (13.5)	A5060/30C-100-ND	2218.16	1971.70	5060/30C SL005
	40	.053 (1.35)	.64 (16.3)	A5060/40C-100-ND	3292.31	2926.50	5060/40C SL005
	50	.053 (1.35)	.70 (17.8)	A5060/50C-100-ND	4075.65	3622.80	5060/50C SL005
22 AWG (0.35mm^2) 7/30 (7 x 0.25mm)							
B	2	.032 (.81)	.17 (4.3)	A5002C-100-ND◆	219.26	194.90	5002C SL005
	3	.032 (.81)	.19 (4.8)	A5003C-100-ND◆	262.01	232.90	5003C SL005
	4	.032 (.81)	.20 (5.2)	A5004C-100-ND◆	326.36	290.10	5004C SL005
	6	.032 (.81)	.23 (5.8)	A5006C-100-ND◆	373.61	332.10	5006C SL005
	8	.032 (.81)	.25 (6.4)	A5008C-100-ND◆	451.80	401.60	5008C SL005
	20	.032 (.81)	.35 (8.8)	A5010/20C-100-ND	1168.99	1039.10	5010/20C SL005
	25	.032 (.81)	.38 (9.6)	A5010/25C-100-ND	1408.84	1252.30	5010/25C SL005
	30	.032 (.81)	.41 (10.3)	A5010/30C-100-ND	1819.01	—	5010/30C SL005
	40	.032 (.81)	.46 (11.6)	A5010/40C-100-ND	2465.55	2191.60	5010/40C SL005
	50	.032 (.81)	.50 (12.7)	A5010/50C-100-ND	3067.99	2727.10	5010/50C SL005
	60	.032 (.81)	.55 (13.7)	A5010/60C-100-ND	3680.33	3271.40	5010/60C SL005
Multiconductor, SUPRASHIELD							
16 AWG (1.23mm^2) 19/0.0117 (19 x 0.29mm)							
A	2	.032 (.81)	.28 (7.2)	A5172C-100-ND◆	826.76	734.90	5172C SL005
	2	.032 (.81)	.28 (7.2)	A5172/1C-100-ND*	826.76	734.90	5172/1C SL005
	3	.032 (.81)	.32 (8.0)	A5173C-100-ND◆	1025.10	911.20	5173C SL005
	3	.032 (.81)	.32 (8.0)	A5173/1C-100-ND*	951.30	845.60	5173/1C SL005
	4	.032 (.81)	.34 (8.8)	A5174C-100-ND◆	1132.76	1006.90	5174C SL005
A	6	.032 (.81)	.39 (10.0)	A5176C-100-ND◆	1566.34	1392.30	5176C SL005
	8	.032 (.81)	.43 (11.0)	A5178C-100-ND	1960.76	1742.90	5178C SL005
	10	.032 (.81)	.47 (11.9)	A5180C-100-ND	2365.20	2102.40	5180C SL005
18 AWG (0.81mm^2) 16/30 (16 x 0.25mm)							
A	2	.032 (.81)	.25 (6.5)	A5162C-100-ND◆	692.89	615.90	5162C SL005
	2	.032 (.81)	.25 (6.5)	A5162/1C-100-ND*	627.30	557.60	5162/1C SL005
	3	.032 (.81)	.28 (7.2)	A5163C-100-ND	817.99	727.10	5163C SL005
	3	.032 (.81)	.28 (7.2)	A5163/1C-100-ND*	817.99	727.10	5163/1C SL005
	4	.032 (.81)	.31 (7.8)	A5164C-100-ND◆	907.54	806.70	5164C SL005
	6	.032 (.81)	.35 (8.9)	A5166C-100-ND	1224.79	1088.70	5166C SL005
	8	.032 (.81)	.38 (9.7)	A5168C-100-ND	1493.66	1327.70	5168C SL005
	25	.053 (1.35)	.62 (15.8)	A5170/25C-100-ND	3680.66	3271.70	5170/25C SL005
20 AWG (0.56mm^2) 7/28 (7 x 0.32mm)							
A	2	.032 (.81)	.23 (5.9)	A5152C-100-ND◆	353.44	331.35	5152C SL005
	3	.032 (.81)	.26 (6.6)	A5153C-100-ND◆	436.08	408.83	5153C SL005
	4	.032 (.81)	.28 (7.1)	A5154C-100-ND◆	475.84	446.10	5154C SL005
	6	.032(.81)	.32 (8.0)	A5156C-100-ND◆	660.96	619.65	5156C SL005
	8	.032 (.81)	.35 (8.8)	A5158C-100-ND◆	724.72	679.43	5158C SL005
	10	.032 (.81)	.37 (9.5)	A5160C-100-ND◆	902.48	846.08	5160C SL005
	20	.032 (.81)	.48 (12.1)	A5160/20C-100-ND	1529.44	1433.85	5160/20C SL005
	30	.032 (.81)	.56 (14.2)	A5160/30C-100-ND	2238.16	2098.28	5160/30C SL005
22 AWG (0.35mm^2) 7/30 (7 x 0.25mm)							
B	2	.032 (.81)	.20 (5.0)	A5102C-100-ND◆	349.76	327.90	5102C SL005
	3	.032 (.81)	.21 (5.4)	A5103C-100-ND◆	367.84	344.85	5103C SL005
	4	.032 (.81)	.22 (5.6)	A5104C-100-ND◆	390.40	366.00	5104C SL005
	6	.032 (.81)	.25 (6.4)	A5106C-100-ND◆	519.92	487.43	5106C SL005
	8	.032 (.81)	.27 (6.9)	A5108C-100-ND◆	587.92	551.18	5108C SL005
	10	.032 (.81)	.30 (7.6)	A5110C-100-ND	688.40	645.38	5110C SL005
	15	.032 (.81)	.33 (8.4)	A5110/15C-100-ND◆	997.68	935.33	5110/15C SL005
	20	.032 (.81)	.36 (9.2)	A5110/20C-100-ND◆	1220.72	1144.43	5110/20C SL005
	25	.032 (.81)	.39 (9.8)	A5110/25C-100-ND◆	1540.00	1443.75	5110/25C SL005
	40	.032 (.81)	.47 (11.8)	A5110/40C-100-ND	2496.00	2340.00	5110/40C SL005
	60	.053 (1.35)	.60 (15.4)	A5110/60C-100-ND	3198.08	2998.20	5110/60C SL005
	70	.053 (1.35)	.63 (16.0)	A5110/70C-100-ND◆	3908.32	3664.05	5110/70C SL005

◆ ***RoHS Compliant*** * Conductors color coded per international standards: Brown, Blue, Green/Yellow

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Hook-Up Wire

Description:

- Stranded or solid tinned copper conductor
- Color coded PVC insulation
- Flammability: Passes UL VW-1 flame test (except 1852 to 1859/19)
- Wire is ordered per EIA-359-A color specifications which allows for some variation in shade

Operating Temperature:

300 Volt: -40°C ~ 90°C (CSA TR-64), -40°C ~ 80°C (UL AWM 1007)
600 Volt: -20°C ~ 105°C (UL1015, CSA TEW-105), -55°C ~ 105°C (MIL-W-16878E Type B) also (MIL-W-76B Type LW)

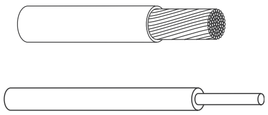

◊ HU-KIT-20-ND

Five 100-ft. spools, 22AWG, 300V stranded wire (black, white, red, green and blue)..................... **$228.40§**

HU-KIT-40-ND

Five 100-ft. spools, 24AWG, 300V stranded wire (black, white, red, green and blue)...................... **$228.40**

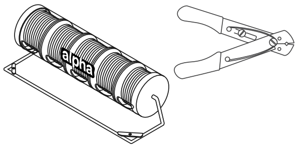

Each kit comes in a convenient wall dispenser and includes wire cutter.

Conductor Size (AWG)	Conductor Strand	Insulation Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Part No.**	Digi-Key Part No.*	Price Per 1,000 ft.	Alpha Part No.**
Stranded — 300 Volt Rating									
30	7/38	.016 (.41)	.043 (1.09)	A3047□-100-ND◆†	33.30	3047 □ □005	A3047□-1000-ND†	163.58	3047 □□001
28	7/36	.016 (.41)	.047 (1.19)	A3048□-100-ND◆†	29.93	3048 □ □005	A3048□-1000-ND◆†	148.28	3048 □□001
26	7/34	.016 (.41)	.051 (1.30)	A3049□-100-ND◆†	32.29	3049 □ □005	A3049□-1000-ND◆†	153.56	3049 □□001
24	7/32	.016 (.41)	.057 (1.45)	A2015□-100-ND◆§	33.08	3050 □ □005	A2015□-1000-ND◆	155.48	3050 □□001
22	7/30	.016 (.41)	.065 (1.65)	A2016□-100-ND◆◊	37.46	3051 □ □005	A2016□-1000-ND◆	171.34	3051 □□001
20	10/30	.016 (.41)	.071 (1.80)	A2040□-100-ND◆	45.45	3053 □ □005	A2040□-1000-ND◆	217.58	3053 □□001
18	16/30	.016 (.41)	.080 (2.03)	A2064□-100-ND◆	53.21	3055 □ □005	A2064□-1000-ND◆	257.85	3055 □□001
16	26/30	.016 (.41)	.095 (2.41)	A2065□-100-ND◆	77.28	3057 □ □005	A2065□-1000-ND	367.76	3057 □□001
Solid — 300 Volt Rating									
24	Solid	.016 (.41)	.057 (1.45)	A3050□-100-ND†	24.00	3050/1 □ □005	—	—	—
22	Solid	.016 (.41)	.065 (1.65)	A3051□-100-ND◆†	27.30	3051/1 □ □005	—	—	—
20	Solid	.016 (.41)	.071 (1.80)	A3053□-100-ND◆†	32.90	3053/1 □ □005	—	—	—
16	Solid	.016 (.41)	.095 (2.41)	A3057□-100-ND†	55.00	3057/1 □ □005	—	—	—
Stranded — 600 Volt Rating, -20°C to 105°C									
24	7/32	.032 (.81)	.088 (2.24)	A3070□-100-ND◆†	33.40	3070 □ □005	—	—	—
22	7/30	.032 (.81)	.094 (2.39)	A2101□-100-ND◆	40.05	3071 □ □005	A2101□-1000-ND	206.21	3071 □□001
20	10/30	.032 (.81)	.100 (2.54)	A2102□-100-ND◆	44.20	3073 □ □005	A2102□-1000-ND	231.20	3073 □□001
18	16/30	.032 (.81)	.112 (2.84)	A2103□-100-ND◆	60.70	3075 □ □005	A2103□-1000-ND◆	306.40	3075 □□001
16	26/30	.032 (.81)	.124 (3.15)	A2104□-100-ND◆	77.90	3077 □ □005	A2104□-1000-ND	442.40	3077 □□001
14	41/30	.032 (.81)	.134 (3.61)	A3079□-100-ND◆†	104.30	3079 □ □005	—	—	—
12	65/30	.032 (.81)	.162 (3.93)	A3080□-100-ND†	204.60	3080 □ □005	—	—	—
10	105/30	.032 (.81)	.180 (4.83)	A3081□-100-ND‡	320.50	3081 □ □005	—	—	—
Stranded — 600 Volt Rating, -55°C to 105°C (available in white, black or red only) — RoHS Compliant									
28	7/36	.010 (.25)	.034 (.86)	A1852□-100-ND	36.90	1852 □□005	—	—	—
26	7/34	.010 (.25)	.038 (.96)	A1853□-100-ND	36.90	1853 □□005	—	—	—
24	7/32	.010 (.25)	.043 (1.09)	A1854□-100-ND	37.58	1854 □□005	—	—	—
24	19/36	.010 (.25)	.043 (1.09)	A185419□-100-ND	60.30	1854/19 □□005	—	—	—
22	7/30	.010 (.25)	.050 (1.27)	A1855□-100-ND	40.28	1855 □□005	—	—	—
22	19/34	.010 (.25)	.050 (1.27)	A185519□-100-ND	78.98	1855/19 □□005	—	—	—
20	7/28	.010 (.25)	.058 (1.47)	A1856□-100-ND	50.40	1856 □□005	—	—	—
20	19/32	.010 (.25)	.058 (1.47)	A185619□-100-ND	78.08	1856/19 □□005	—	—	—
18	19/30	.010 (.25)	.068 (1.73)	A185719□-100-ND	115.43	1857/19 □□005	—	—	—
16	19/29	.010 (.25)	.077 (1.96)	A185819□-100-ND	76.61	1858/19 □□005	—	—	—
14	19/27	.010 (.25)	.091 (2.31)	A185919□-100-ND	154.24	1859/19 □□005	—	—	—

* For □ in Digi-Key Part No. choose letter which represents color of your choice:

A = Orange **B** = Black **G** = Green **L** = Blue **N** = Brown
R = Red **S** = Gray **V** = Violet **W** = White **Y** = Yellow
E = Green/Yellow (Stranded wire only)

** For □□ in Alpha Part No. choose letters which represents color of your choice:

OR = Orange **BK** = Black **GR** = Green **BL** = Blue **BR** = Brown
RD = Red **SL** = Gray **VI** = Violet **WH** = White **YL** = Yellow
GY = Green/Yellow (Stranded wire only)

◆ ***RoHS Compliant*** ‡ Only available in Black, White, Red and Green † Not available in green/yellow

Non-Fraying Expandable Braid Sleeving

Description:

• Protection of Wire, Cable and Hoses • Wire bundling and Harnessing, Wire splicing • Frayless cuts without a hot knife • Use with automatic cutting machines • Not affected by most chemical environments and common solvents • Fungus Resistance: No growth • Withstands short-term exposure to 230°C

Operating Temperature: • -70°C ~ 125°C (MIL-I-631D) (GRP-120NF passes UL VW-1 Flame Test)

Color Description: • GRP-110NF: Black • GRP-120NF: Black with White Tracer

Nominal Wall Thickness, Inches (mm): • .027 (.69)

Nominal Wall Thickness Inch (mm)	Minimum Supplied I.D. Inch (mm)	Maximum Expanded I.D. Inch (mm)	Digi-Key Part No. (General Purpose)	Price Per 100 ft.	Alpha Part No. (General Purpose)	Digi-Key Part No. (Flame Retardant)	Price Per 100 ft.	Alpha Part No. (Flame Retardant)
.027 (0.69)	.125 (3.18)	.250 (6.35)	AG110NF18B-100-ND◆	76.73	G110NF18 BK005	AG120NF18B-100-ND◆	111.60	G120NF18 BK005
.027 (0.69)	.156 (3.97)	.438 (11.11)	AG110NF14B-100-ND◆	105.19	G110NF14 BK005	AG120NF14B-100-ND◆	159.30	G120NF14 BK005
.027 (0.69)	.250 (6.35)	.750 (19.05)	AG110NF12B-100-ND◆	210.15	G110NF12 BK005	AG120NF12B-100-ND◆	283.28	G120NF12 BK005
.027 (0.69)	.625 (15.88)	1.000 (25.40)	AG110NF34B-100-ND◆	315.00	G110NF34 BK005	AG120NF34B-100-ND	423.11	G120NF34 BK005

◆ ***RoHS Compliant***

High Voltage Test Lead Wire

- Stranded Tinned Copper Conductor
- Insulation: Color-Coded Rubber
- Operating Temperature: -30°C ~ 90°C

Conductor Size (AWG)	Voltage	Conductor Strand	Insulation Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Part No.**
20	1,500V	41/36	.040 (1.02)	.125 (3.18)	A1632☐-100-ND	91.46	1632 ☐☐005
18	5,000V	65/36	.045 (1.14)	.140 (3.56)	A1636☐-100-ND	117.23	1636 ☐☐005

* For ☐ in Digi-Key Part No. choose letter which represents color of your choice:
B = Black **R**= Red

** For ☐☐ in Alpha Part No. choose letters which represents color of your choice:
BK = Black **RD** = Red

Tinned Copper Flat Braid

Description:

• Ground/Shielding Terminations • Used as a ground strap, provides excellent, low-resistant ground path • Ideal shielding material for short-run cables providing easy radial termination • Values shown for Current Carrying Capacity are for bare cable in free air at 30°C (86°F) and intended as a reference guide only. Actual values will depend on permissible temperature rise, permissible voltage drop and other conditions of service.

Specifications:

• QQ-W-343E, ASTM-B-33

Nominal Flat Width Inch (mm)	Nominal Thickness Inch (mm)	Braid Construction: AWG of Individual Ends	Braid Construction: Carriers	Braid Construction: Total No. of Individual Ends	Approx. AWG Equivalent	Approx. Current Carrying Capacity (Amps)	Digi-Key Part No.	Price Per 100 ft.	Alpha Part No.
.188 (4.76)	.020 (.50)	36	24	120	15	25	A1230SV-100-ND*	139.05	1230 SV005
.250 (6.35)	.030 (.76)	36	24	168	14	32	A1231SV-100-ND*	187.88	1231 SV005
.375 (9.53)	.030 (.76)	36	48	288	12	46	A1232SV-100-ND	300.60	1232 SV005

* Meets QQ-B-575B

Teflon® Hook-Up Wire

Certified Performance
High-Reliability
TFE Teflon® Insulation

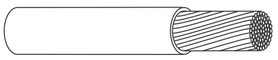

Description:

- Stranded Silver-Plated Copper Conductor
- Color coded Extruded TFE Teflon® Insulation
- Flammability: Passes UL VW-1 Flame Test
- Not degraded by chemicals, ideal for harsh environments

Choose TFE Teflon® For:

- Resistance to All Chemicals
- High Temperature use up to 200°C
- Low Coefficient of Friction
- Outstanding Electrical Properties

Operating Temperature:

600 Volt: -60°C ~ 200°C (UL 105°C), (MIL-W-16878E Type E, UL AWM Style 1213)

Cond. Size (AWG)	Cond. Strand	Insulation Thick. Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Part No. **
Stranded 600 Volt Rating						
30	7/38	.010 (.25)	.032 (.81)	A5851☐-100-ND◆	51.30	5851 ☐☐005
28	7/36	.010 (.25)	.036 (.91)	A5852☐-100-ND◆	52.20	5852 ☐☐005
26	7/34	.010 (.25)	.040 (1.02)	A5853☐-100-ND◆	56.14	5853 ☐☐005
24	19/36	.010 (.25)	.045 (1.14)	A5854☐-100-ND◆	74.03	5854 ☐☐005
24	7/32	.010 (.25)	.044 (1.12)	A58547☐-100-ND◆	60.41	5854/7 ☐☐005
22	19/34	.010 (.25)	.051 (1.30)	A5855☐-100-ND◆	75.15	5855 ☐☐005
22	7/30	.010 (.25)	.055 (1.27)	A58557☐-100-ND	88.31	5855/7 ☐☐005
20	19/32	.010 (.25)	.059 (1.50)	A5856☐-100-ND◆	107.10	5856 ☐☐005
18	19/30	.010 (.25)	.070 (1.78)	A5857☐-100-ND◆	152.89	5857 ☐☐005
16	19/29	.010 (.25)	.077 (1.96)	A5858☐-100-ND◆	186.41	5858 ☐☐005
14	19/27	.012 (.30)	.094 (2.39)	A5859☐-100-ND◆†	269.66	5859 ☐☐005

◆ ***RoHS Compliant*** † Not UL AWM Style 1213
Teflon® is a Registered Trademark of E. I. Dupont de Nemours and Co.

* For ☐ in Digi-Key Part No. choose letter which represents color of your choice:
B = Black **R** = Red **W** = White

** For ☐☐ in Alpha Part No. choose letters which represents color of your choice:
BK = Black **RD** = Red **WH** = White

Bus Bar Wire

Description: • Electrolytic Soft Drawn and Annealed Solid Pure Tin Plated Copper **Specifications**: • MIL-W-3861 Type S • QQ-W-343 Type S

Conductor Size (AWG)	Diameter Inch (mm)	Digi-Key Part No.	Price Per 1000 ft.	Alpha Part No.
Bus Bar Wire				
30	.010 (.25)	A299/3SV-1000-ND◆	166.95	299/3 SV001
28	.013 (.33)	A299/2SV-1000-ND◆	178.31	299/2 SV001
26	.016 (.41)	A299/1SV-1000-ND◆	204.30	299/1 SV001
24	.020 (.51)	A299SV-1000-ND◆	214.88	299 SV001
22	.025 (.64)	A298SV-1000-ND◆	279.56	298 SV001
20	.032 (.81)	A297SV-1000-ND◆	370.35	297 SV001
18	.040 (1.02)	A296SV-1000-ND◆	525.71	296 SV001
16	.051 (1.30)	A295SV-1000-ND◆	810.34	295 SV001
14	.064 (1.62)	A286SV-1000-ND	1191.38	286 SV001
12	.081 (2.06)	A289SV-1000-ND	1762.76	289 SV001

◆ ***RoHS Compliant***

Teflon® Tubing

Application: • Wire Harness • High Temperature Component Covering; **Color**: • Transparent **Physical Properties**: • Tensile Strength 2500 psi (176Kg/cm2) • Ultimate Elongation 200% • Flammability: Self-Extinguishing **Chemical Properties**: • Corrosive Effect: Non-Corrosive • Fungus Resistance: No Growth • Water Absorption 0.01% **Electrical Properties**: • Dielectric Strength; 800V/mil **Specifications**: ASTN D 3295, UL224

Fits Bare Cond. Size (AWG)	Nominal Inside Dia. Inch (mm)	Wall Thick. Inch (mm)	Digi-Key Part No.	Price Per 100 ft.	Alpha Part No.
30	.012 (.30)	.009 (.22)	ATFT20030-100-ND◆	68.18	TFT20030 NA005
28	.015 (.38)	.009 (.22)	ATFT20028-100-ND◆	59.74	TFT20028 NA005
26	.018 (.45)	.009 (.22)	ATFT20026-100-ND◆	54.11	TFT20026 NA005
24	.022 (.55)	.010 (.25)	ATFT20024-100-ND◆	59.29	TFT20024 NA005
22	.028 (.71)	.010 (.25)	ATFT20022-100-ND◆	69.08	TFT20022 NA005
19	.038 (.96)	.012 (.30)	ATFT20019-100-ND◆	89.66	TFT20019 NA005
18	.042 (1.07)	.012 (.30)	ATFT20018-100-ND◆	97.43	TFT20018 NA005
17	.047 (1.19)	.012 (.30)	ATFT20017-100-ND◆	106.76	TFT20017 NA005
16	.053 (1.35)	.012 (.30)	ATFT20016-100-ND◆	116.10	TFT20016 NA005
15	.059 (1.50)	.012 (.30)	ATFT20015-100-ND◆	119.70	TFT20015 NA005
14	.066 (1.68)	.012 (.30)	ATFT20014-100-ND◆	103.61	TFT20014 NA005
13	.076 (1.93)	.012 (.30)	ATFT20013-100-ND◆	119.36	TFT20013 NA005
12	.085 (2.16)	.012 (.30)	ATFT20012-100-ND◆	127.35	TFT20012 NA005
11	.095 (2.41)	.012 (.30)	ATFT20011-100-ND◆	139.50	TFT20011 NA005
10	.106 (2.69)	.012 (.30)	ATFT20010-100-ND◆	151.20	TFT20010 NA005
2	.263 (6.68)	.015 (.38)	ATFT2002-100-ND◆	417.38	TFT2002 NA005
1	.294 (7.47)	.015 (.38)	ATFT2001-100-ND	457.20	TFT2001 NA005
0	.330 (8.38)	.015 (.38)	ATFT2000-100-ND	516.94	TFT2000 NA005

◆ ***RoHS Compliant*** ***Teflon® is a Registered Trademark of E. I. Dupont de Nemours and Co.***

Coaxial, Ethernet, Thinnet, Twinaxial Cable

**Coaxial Cables,
Non-Plenum Coaxial
and Data Systems**

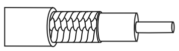

**Thinnet — Plenum
and Non-Plenum
Ethernet Cables**

**Non-Plenum
Twinaxial Cable**

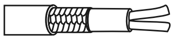

Cond. RG Type	Inner Size (AWG)	Inner Cond. Strand.	Dielec. Cond. Mat'l†	Dielectric Diameter Inch (mm)	Shield Dielec. Material†	Nom. Coverage	Jacket Shield Material†	Jacket Diameter Inch (mm)	Jacket Material†	Impedance (Ω)	Cap. pF/ft	Temperature Rate (°C)	Volt Rate	NEC/UL (See Below)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price per roll			Alpha Part No.
																100 ft.	500 ft.	1,000 ft.	
Coaxial Cable																			
58 A/U	20	19/0.0071"	TC	.116 (2.95)	PE	95%	TC Braid	.195 (4.95)	V Black	50	30.5	60	150	1	A305-X-ND◆	69.30	278.50	432.40	9058AC-X
58 C/U	20	19/0.0071"	TC	.116 (2.95)	PE	95%	TC Braid	.195 (4.95)	NCV Black	50	30.5	60	—	—	A306-X-ND◆	131.00	364.60	597.50	9058C-X
59/U	22	Solid	CW	.146 (3.71)	PE	95%	BC Braid	.242 (6.15)	V Black	75	21.4	60	30/AWM	1, 7	A301-X-ND◆	70.40	—	398.50	9059C-X
62 A/U	22	Solid	CW	.146 (3.71)	SSP	95%	BC Braid	.242 (6.15)	V Black	93	13.2	80	30/AWM	1, 8	A302-X-ND◆	65.00	256.50	350.00	9062A-X
174/U	26	7/34	CW	.060 (1.52)	PE	88%	TC Braid	.100 (2.54)	V Black	50	31.1	80	30/AWM	7, 9	A307-X-ND◆	64.20	255.00	392.20	9174-X
178 B/U	30	7/38	SC/CW	.034 (.86)	TFE	96%	SC Braid	.071 (1.80)	FEP Natural	50	28.4	200	—	—	A316-X-ND◆	317.70	1459.50	1246.00	9178B-X
179 B/U	30	7/38	SC/CW	.063 (1.60)	TFE	93%	SC Braid	.100 (2.54)	Tint FEP Brown	75	19.6	200	—	—	A317-X-ND	331.30	1521.10	1473.90	9179B-X
214/U	13	7/0.0296"	SC	.285 (7.24)	PE	99%	SC Braid Dbl	.425 (10.79)	NCV Black	50	30.8	80	30/AWM	7	A308-X-ND◆§	1357.10	—	9225.80	9214-X
223/U	19	Solid	SC	.116 (2.95)	PE	99%	SC Braid Dbl	.212 (5.38)	NCV Black	50	31.5	75	—	—	A309-X-ND◆§	454.50	2087.20	3463.20	9223-X
316/U	26	7/0.0067"	SCCS	.060 (1.52)	TFE	93%	SC	.098 (2.49)	FEP	50	30.0	200	—	—	A315-X-ND	273.20	1308.90	1935.20	9316-X
8/U	13	7/21	BC	.285 (7.24)	PE	96%	BC Braid	.405 (10.29)	V Black	52	29.5	60	—	—	A318-X-ND	180.20	827.40	1347.10	9008-X
Ethernet Cable																			
Thinnet ◊	20	19/0.0075"	TC	.112 (2.84)	FEP Teflon	95%	A/M/A + TC Braid	.182 (4.62)	F Gray	50	30.5	125	300	3, 4, 6	A311-1000-ND▲	—	—	877.80	9871F-X
Thinnet ‡	20	19/32	TC	.102 (2.59)	FPE	95%	A/M/A + TC Braid	.180 (4.57)	V Black	50	25.5	60	300	2, 4, 5	A312-1000-ND	—	—	355.80	9881C-1000
Twinaxial Cable — RoHS Compliant																			
Twinax #	20	7/28	BC/TC	.236 (5.99)	PE	95%	TC Braid	.330 (8.38)	V Black	100	15.5	75/CL2, 80/AWM	150/CL2, 30/AWM	1, 10	A303-500-ND	—	586.80	—	9818C-X

† Code Description:

A/M/A — Aluminum/Polyester/Aluminum Tape
BC — Bare Copper
CW — Copper Coated Steel
F — Fluoropolymer
FEP — Fluorinated Ethylene-Propylene
FPE — Cellular (foam) Polyethylene
NCV — Non-contaminating Polyvinyl chloride, Type II
PE — Solid Polyethylene
SC — Silver Coated Copper
SCCS — Silver Coated Copper Clad Steel
SSP — Semi-solid Polyethylene
TC — Tinned Copper
TFE — Tetrafluoroethylene
V — Polyvinyl hloride - Type I

◆ ***RoHS Compliant***
▲ Plenum
◊ ETHERNET IEEE 802.3 10base2 10Mbps
‡ THIN-NET 10Mbps
# IBM SYSTEM (34/36/38/AS 400)
§ MIL-C-170 Type

NEC Rating —
1. CL2 **2.** CM **3.** CMP **4.** CXC **5.** FT4 **6.** FT6
UL Style —
7. UL AWM 1354
8. UL AWM 1478
9. UL 1354
10. UL AWM 2498
11. UL AWM 2704

FIT® Shrinkable Tubing
FIT® 221B

• Economical bulk packaging • Flexibility • Excellent flame retardancy • Military, UL/CSA requirements

Characteristics: • Operating Temperature: -55°C ~ 135°C • 125°C UL & CSA • Shrinkage Ratio: Approximately 2 to 1 at 121°C • Color: Black, Clear

Physical Properties: • Tensile Strength: 1500psi, (106kg/cm^2) • Ultimate Elongation: 200% • Longitudinal Shrinkage: -5% • Specific Gravity: 1.35 • Secant Modulus: 2.5 x 10^4 maximum • Flammability: Self-extinguishing

Electrical Properties: • Dielectric Strength: 500V/mil (197kV/cm) • Volume Resistivity: 10^{14} Ω-cm

Chemical Properties: • Corrosive Effect: Passes copper stability test • Fungus Resistance: No growth

Specifications: • MIL-DTL-23053/5C, Class 1, 2 • UL Standard 224 (black only) • CSA Standard 198 (black only)

CONTENTS for FIT-221 Variety Pack

Tubing Size	Number of Cut Pieces					
	Black	White	Red	Blue	Yellow	Green
1/8"	4	3	2	2	2	1
3/16"	4	3	2	2	2	1
1/4"	4	3	2	2	2	1
3/8"	3	2	1	1	1	1
1/2"	3	2	1	1	1	1

◆ ***RoHS Compliant***

Color	Min. Supplied Inner Diameter Inch (mm)	Max. Recovered Inner Diameter Inch (mm)	Nom. Recovered Wall Thickness Inch (mm)	Digi-Key Part No.	Pricing Sold in 4' Lengths 4' (1 pc.)	20' (5 pcs.)	Digi-Key Part No.	Spool Size (Feet)	Price Per Spool	Alpha Part No.
FIT® 221B — Irradiated Polyolefin										
Black	0.046 (1.17)	0.023 (0.58)	0.016 (0.41)	A364B-4-ND◆	.85	3.76	A364B-1000-ND◆	1000	196.20	FIT-221B-3/64 BKXXX
Clear				A364C-4-ND◆	.85	3.76	A364C-1000-ND◆	1000	196.20	FIT-221B-3/64 CLXXX
Black	0.063 (1.60)	0.031 (0.78)	0.017 (0.43)	A116B-4-ND◆	.90	4.00	A116B-1000-ND◆	1000	208.62	FIT-221B-1/16 BKXXX
Clear				A116C-4-ND◆	.90	4.00	A116C-1000-ND◆	1000	208.62	FIT-221B-1/16 CLXXX
Black	0.093 (2.36)	0.046 (1.17)	0.020 (0.50)	A332B-4-ND◆	1.00	4.44	A332B-500-ND◆	500	115.80	FIT-221B-3/32 BKXXX
Clear				A332C-4-ND◆	1.00	4.44	A332C-500-ND◆	500	115.80	FIT-221B-3/32 CLXXX
Black	0.125 (3.18)	0.062 (1.58)	0.020 (0.50)	A018B-4-ND◆	1.08	4.78	A018B-500-ND◆	500	124.84	FIT-221B-1/8 BKXXX
Clear				A018C-4-ND◆	1.08	4.78	A018C-500-ND◆	500	124.84	FIT-221B-1/8 CLXXX
Black	0.187 (4.75)	0.093 (2.36)	0.020 (0.50)	A316B-4-ND◆	1.31	5.82	A316B-500-ND◆	500	151.71	FIT-221B-3/16 BKXXX
Clear				A316C-4-ND◆	1.31	5.82	A316C-500-ND◆	500	151.71	FIT-221B-3/16 CLXXX
Black	0.250 (6.35)	0.125 (3.18)	0.025 (0.63)	A014B-4-ND◆	1.63	7.26	A014B-250-ND◆	250	94.84	FIT-221B-1/4 BKXXX
Clear				A014C-4-ND◆	1.63	7.26	A014C-250-ND◆	250	94.84	FIT-221B-1/4 CLXXX
Black	0.375 (9.53)	0.187 (4.75)	0.025 (0.63)	A038B-4-ND◆	1.83	8.11	A038B-200-ND◆	200	84.71	FIT-221B-3/8 BKXXX
Clear				A038C-4-ND◆	1.83	8.11	A038C-200-ND◆	200	84.71	FIT-221B-3/8 CLXXX
Black	0.500 (12.70)	0.250 (6.35)	0.025 (0.63)	A012B-4-ND◆	2.06	9.15	A012B-150-ND◆	150	71.66	FIT-221B-1/2 BKXXX
Clear				A012C-4-ND◆	2.06	9.15	A012C-150-ND◆	150	71.66	FIT-221B-1/2 CLXXX
Black	0.750 (19.10)	0.375 (9.53)	0.030 (0.76)	A034B-4-ND◆	3.05	13.54	AW034B-250-ND◆	250	189.45	FIT-221B-3/4 BKXXX
Clear				A034C-4-ND◆	3.05	13.54	—	—	—	FIT-221B-3/4 CLXXX
Black	1.000 (25.40)	0.500 (12.70)	0.035 (0.88)	A100B-4-ND◆	4.32	19.20	A100B-250-ND◆	250	264.60	F2211IN BKXXX
Clear				A100C-4-ND◆	4.32	19.20	AW100C-250-ND◆	250	264.60	F221B1IN CLXXX
FIT MGKIT 1 (Heat Gun plus FIT-221 Variety Pack)							FITMGKIT1-ND	115.20/1		FITMGKIT1 NC032
FIT-221 Variety Pack (60, 6 inch cut pieces, see chart above for contents)							FIT221R-ND◆	38.93/1		FIT-221-R MC213

Spiral Wrap Tubing

Clear Polyethylene: Ideal for general indoor applications. This cost-effective material is extremely abrasion resistant and is unaffected by most solvents. • **Operating Temperature:** -60°C ~ 88°C

Ultraviolet-Resistant Black Polyethylene: Recommended for outdoor use. Same properties as Clear Polyethylene but contains extra additive for moisture resistance ultraviolet light and rain. • **Operating Temperature:** -60°C ~ 88°C

Nylon: Highly specialized product that is tough, durable, self-extinguishing, abrasion resistant, lightweight. Operates over a wide temperature range. • **Operating Temperature:** -40°C ~ 121°C

Teflon®*: Self extinguishing, fluorocarbon, resin material. Possesses greatest minimum and maximum temperature range of any spiral wrap material. Suitable for use in a number of industrial applications. • **Operating Temperature:** -68°C ~ 260°C

PVC: Superior taber abrasion resistance, tensile strength, thermal, mechanical and electrical properties. Self-extinguishing flexible product. • **Operating Temperature:** -20°C ~ 80°C

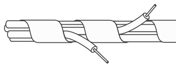

Size	Nominal O.D (Inches)	Nom. Wall Thickness (Inches)	Max. Dia. Inner Wire Bundle (In.)	Digi-Key Part No.	Price Each 1	5	Alpha Part No.
Clear Polyethylene (Color – Natural)							
1/8" x 25'	0.125	0.031	1/2	ASW1-25-ND	14.74	13.10	SW1 CL008
1/8" x 100'				ASW1-100-ND	19.01	16.90	SW1 CL005
1/4" x 25'	0.250	0.046	2	ASW2-25-ND	10.69	9.50	SW2 CL008
1/4" x 100'				ASW2-100-ND	31.84	28.30	SW2 CL005
3/8" x 25'	0.375	0.052	3	ASW3-25-ND	15.41	13.70	SW3 CL008
3/8" x 100'				ASW3-100-ND	52.54	46.70	SW3 CL005
1/2" x 25'	0.500	0.062	4	ASW4-25-ND	16.76	14.90	SW4 CL008
1/2" x 100'				ASW4-100-ND	63.56	56.50	SW4 CL005
3/4" x 25'	0.750	0.065	5	ASW5-25-ND	30.15	26.80	SW5 CL008
3/4" x 100'				ASW5-100-ND	102.26	90.90	SW5 CL005
1" x 25'	1.000	0.095	6	ASW6-25-ND	70.43	62.60	SW6 CL008
1" x 100'				ASW6-100-ND	263.70	234.40	SW6 CL005
Ultraviolet-Resistant Black Polyethylene (Color – Black)							
1/8" x 25'	0.125	0.030	1/2	ASW40-25-ND	15.53	13.80	SW40 BK008
1/8" x 100'				ASW40-100-ND	21.38	19.00	SW40 BK005
1/4" x 25'	0.250	0.045	2	ASW41-25-ND	12.60	11.20	SW41 BK008
1/4" x 100'				ASW41-100-ND	43.43	38.60	SW41 BK005
3/8" x 25'	0.375	0.050	3	ASW42-25-ND	18.00	16.00	SW42 BK008
3/8" x 100'				ASW42-100-ND	61.88	55.00	SW42 BK005
1/2" x 25'	0.500	0.060	4	ASW43-25-ND	23.40	20.80	SW43 BK008
1/2" x 100'				ASW43-100-ND	80.21	71.30	SW43 BK005
3/4" x 25'	0.750	0.065	5	ASW44-25-ND	41.06	36.50	SW44 BK008
3/4" x 100'				ASW44-100-ND	140.74	125.10	SW44 BK005
1" x 25'	1.000	0.095	6	ASW45-25-ND	91.58	81.40	SW45 BK008
1" x 100'				ASW45-100-ND	317.70	282.40	SW45 BK005

Size	Nominal O.D (Inches)	Nom. Wall Thickness (Inches)	Max. Dia. Inner Wire Bundle (In.)	Digi-Key Part No.	Price Each 1	5	Alpha Part No.
Nylon (Color – Natural)							
1/8" x 25'	0.125	0.016	1/2	ASW20-25-ND	16.09	14.30	SW20 CL008
1/8" x 100'				ASW20-100-ND	58.16	51.70	SW20 CL005
1/4" x 25'	0.250	0.025	2	ASW21-25-ND	27.90	24.80	SW21 CL008
1/4" x 100'				ASW21-100-ND	89.33	79.40	SW21 CL005
3/8" x 25'	0.375	0.035	3	ASW22-25-ND	54.00	48.00	SW22 CL008
3/8" x 100'				ASW22-100-ND	186.75	166.00	SW22 CL005
1/2" x 25'	0.500	0.035	4	ASW23-25-ND	80.21	71.30	SW23 CL008
1/2" x 100'				ASW23-100-ND	242.10	215.20	SW23 CL005
Teflon® (Color – Natural)							
1/8" x 25'	0.125	0.030	1/2	ASW30-25-ND	136.91	121.70	SW30 CL008
1/8" x 100'				ASW30-100-ND	474.64	421.90	SW30 CL005
1/4" x 25'	0.250	0.030	2	ASW31-25-ND	253.69	225.50	SW31 CL008
1/4" x 100'				ASW31-100-ND	947.81	842.50	SW31 CL005
3/8" x 25'	0.375	0.030	2-1/2	ASW32-25-ND	382.50	340.00	SW32 CL008
3/8" x 100'				ASW32-100-ND	1329.75	1182.00	SW32 CL005
1/2" x 25'	0.500	0.030	3	ASW33-25-ND	514.91	457.70	SW33 CL008
1/2" x 100'				ASW33-100-ND	1790.10	1591.20	SW33 CL005
PVC (Color – Black)							
1/8" x 25'	0.125	0.032	1/2	ASW50-25-ND	17.55	15.60	SW50 BK008
1/8" x 100'				ASW50-100-ND	64.46	57.30	SW50 BK005
1/4" x 25'	0.250	0.045	2	ASW51-25-ND	25.31	22.50	SW51 BK008
1/4" x 100'				ASW51-100-ND	86.18	76.60	SW51 BK005
3/8" x 25'	0.375	0.052	2-1/2	ASW52-25-ND	41.29	36.70	SW52 BK008
3/8" x 100'				ASW52-100-ND	141.41	125.70	SW52 BK005
1/2" x 25'	0.500	0.062	3	ASW53-25-ND	54.79	48.70	SW53 BK008
1/2" x 100'				ASW53-100-ND	187.54	166.70	SW53 BK005

***Teflon® is a Registered Trademark of E. I. Dupont de Nemours and Co.**

FIT® Heat Shrink Fabric

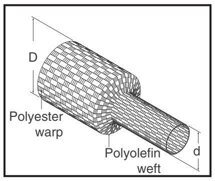

Characteristics:

• Operating Temperature: -40°C ~ 125°C • Shrink Ratio: Approximately 2 to 1 at 135°C • Color Description: All standard packages: Black

Physical Properties:

• Longitudinal Shrinkage: Up to 20% at 2:1 shrink ratio • Flammability: Meets MVSS 302 horizontal burn test

Chemical Properties:

• Corrosive Effect: non-corrosive • Fungus Resistance: No growth • Chemical Resistance: Antifreeze (50% ethylene glycol), Engine Oil, Mineral Hydraulic Fluid, Detergent (1% teepol), Brake Fluid (DOT 4), Unleaded Gasoline, Diesel Fuel, Battery Acid

Minimum Supplied I.D. Inch (mm) (D)	Maximum Recovered I.D. Inch (mm) (d)	Nom. Recovered Wall Thickness Inch (mm)	Digi-Key Part No.	Spool Size (Feet)	Price Per Spool	Alpha Part No.
0.47 (12.0)	0.24 (6.0)	0.039 (0.99)	A0471B-50-ND◆	50	127.91	FITFAB-1 BK007
0.47 (12.0)	0.24 (6.0)	0.039 (0.99)	A0471B-200-ND◆	200	365.40	FITFAB-1 BK004
0.79 (20.0)	0.39 (10.0)	0.039 (0.99)	A0792B-50-ND◆	50	152.78	FITFAB-2 BK007
0.79 (20.0)	0.39 (10.0)	0.039 (0.99)	A0792B-200-ND◆	200	433.69	FITFAB-2 BK004
1.18 (30.0)	0.59 (15.0)	0.039 (0.99)	A1183B-50-ND◆	50	186.08	FITFAB-3 BK007
1.18 (30.0)	0.59 (15.0)	0.039 (0.99)	A1183B-200-ND◆	200	528.53	FITFAB-3 BK004
1.57 (40.0)	0.79 (20.0)	0.039 (0.99)	A1574B-50-ND◆	50	224.33	FITFAB-4 BK007
1.57 (40.0)	0.79 (20.0)	0.039 (0.99)	A1574B-200-ND	200	637.20	FITFAB-4 BK004
1.97 (50.0)	0.98 (25.0)	0.039 (0.99)	A1975B-25-ND	25	137.81	FITFAB-5 BK008
1.97 (50.0)	0.98 (25.0)	0.039 (0.99)	A1975B-100-ND	100	391.39	FITFAB-5 BK005
2.36 (60.0)	1.18 (30.0)	0.039 (0.99)	A2366B-25-ND	25	149.85	FITFAB-6 BK008
2.36 (60.0)	1.18 (30.0)	0.039 (0.99)	A2366B-100-ND	100	426.49	FITFAB-6 BK005
2.76 (70.0)	1.38 (35.0)	0.039 (0.99)	A2767B-25-ND◆	25	204.86	FITFAB-7 BK008
2.76 (70.0)	1.38 (35.0)	0.039 (0.99)	A2767B-100-ND◆	100	581.51	FITFAB-7 BK005

◆ ***RoHS Compliant***

FIT® Multi-Functional Heat Gun

The economical and multi-functional FIT GUN-3 is a two-temperature heat gun that is lightweight in design.

The low setting is at 400°C (750°F) while the high temperature is rated at 585°C (1090°F).

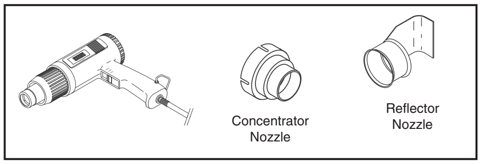

It features a durable plastic housing with a built-in ring stand and hanger, concentrator nozzle and hook reflector nozzle attachments.

FITGUN3-ND Heat Gun **$84.70**

MASTERMITE® Heat Gun

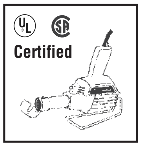

Quiet running. Comes standard with bench stand, heat shrink attachment, and interchangeable heating element. High impact plastic housing, lightweight, draws only 4.5 amps maximum, continuous duty brushless motor, 120V, 60Hz, 4.5A.

MA1017-ND Heat Gun, ESD, 800°F (427°C) **$137.48**
MA1006-ND Heat Gun, 650°F (343°C) **$85.86**
MA1007-ND Replacement Heat Element **$26.93**

ProHeat® Heat Guns

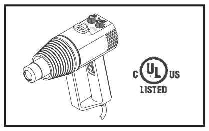

Features: • Compact, light-weight, easy-to-use design, professional-quality heat guns • 120V • Variable temperature (some models) • Variable airflow (some models) • Special electronic closed loop temperature control system maintains constant temperature when varying airflow or using specialty attachments (some models) • Use to heat temperature sensitive materials • Base provides built-in stand for hands free use • Made in the USA

Description	Digi-Key Part No.	Price Each	Master Part No.
Proheat			
Gun, 430° ~ 840°F (221°C ~ 449°C), 15 CFM	MA1009-ND	85.84	PH-1100
VariTemp™			
Gun System, 130° ~ 840°F (54°C ~ 449°C), 15 CFM	MA1012-ND‡	155.14	PH-1200-1
Gun Kit, 130° ~ 840°F (54°C ~ 449°C), 15 CFM	MA1013-ND†	203.64	PH-1200-K
VariAir™			
Gun System, 130° ~ 900°F (54°C ~ 482°C), 6 ~ 15 CFM	MA1015-ND‡	187.30	PH-1300-1
Gun Kit, 130° ~ 900°F (54°C ~ 482°C), 6 ~ 15 CFM	MA1016-ND†	233.59	PH-1300-K

† Kit includes: Heat gun, attachments and storage case ‡ System includes: Heat gun, stand and attachment

Heat Gun

Features universal motor, high air velocity, volume and temperatures. Rugged die-cast aluminum housing with externally replaceable carbon brushes, 3 wire oil resistant cord set, and reinforced ceramic heating element, temperature: 200° ~ 1000°F (93.3° ~ 538°C), 120VAC.

Description	Digi-Key Part No.	Price Each
Heat Gun, 200° ~ 300°F (93.3° ~ 149°C), 600W	MA1019-ND	115.78
Heat Gun, 300° ~ 500°F (149° ~ 260°C), 1440W	MA1018-ND	115.78
Heat Gun, 500° ~ 750°F (260° ~ 399°C), 1680W	MA1001-ND	115.78
Heat Gun, 750° ~ 1000°F (399° ~ 538°C), 1740W	MA1020-ND	115.78
Heat Shrink Attachment - Shrink Tubing from 3/4" to 2" (19 ~ 51mm) O.D.	MA1002-ND	12.95
Heat Reducer Attachment - 3/4" (19mm)	MA1004-ND	12.95
Replacement Heat Element	MA1005-ND	21.87

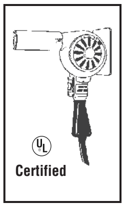

ECOHEAT™ Heat Gun and Kit

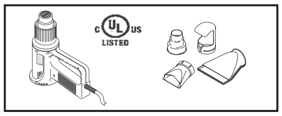

Features:
• Two fan speeds • Two heat settings: 500°F and 1,000°F
• Resettable thermostat • Thermoplastic housing • Built-in stand
Kit Contains:
7/8" air reducer attachment, shrink tubing attachment, 1-15/16" and 3-1/8" spreader attachments, storage and carrying case.
MA1008-ND... **$58.86**

NEW! Cordless Soldering Irons

UT-40

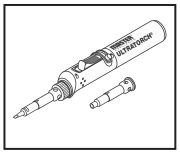

Ultratorch UT-40Si: Ultratorch soldering tips feature Ultratip™ Technology, the long lasting, oxygen-free, copper based, iron and chrome plated tip with a built-in catalyst, pre-tinned with lead-free solder. UT-40Si is a soldering iron and flameless heat tool. Convenient slide switch ignition system for quick ignition. Adjustable temperature lever for temperatures up to 1200°F, equivalent to a 20 ~ 80 watt soldering iron.
MA1021-ND **$53.64**
Ultratorch UT-40Si Kit: Kit contains unit, solder tip, heat tip, hot knife tip, shrink attachment, cap, sponge, and stand packed in a rugged plastic case.
MA1023-ND **$87.55**

UT-100

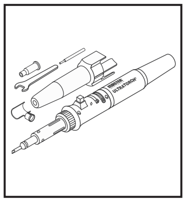

Ultratorch UT-100Si: Standard with soldering tip, heat tip, spanner wrench, open end wrench, shrink attachment and protective cap. Built in fuel filter for consitent fuel ignition. Adjustable temperature up to 1200°F. Built in window indicates fuel level. Dual function soldering iron and heat tool.
MA1024-ND **$107.30**
Ultratorch UT-100SiK Kit: Kit contains unit, solder tip, heat tip, shrink attachment, spanner and open end wrench, sponge and stand packed in a metal storage/carrying case.
MA1022-ND **$119.88**
Ultratorch UT-100Si-TC Kit: Kit contains UT-100Si Ultratorch®, three Ultratip® soldering tips, a hot air tip, heat shrink reflector, hot knife, wire cutter, needle nose pliers, coil of 60/40 solder, sponge and cap packed in a rugged plastic carrying case
MA1025-ND **$179.00**

STEINEL® Heat Guns

Fig. 1

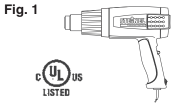

Fig. 2

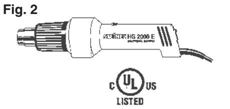

Fig. 3

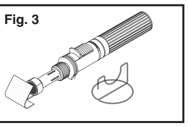

SDL1700-ND: • Dual Temperature: Low 600°F, High 950°F • Rapid cool down • 1300W • 120VAC **SDL1750-ND, SDL1450-ND:** • Variable Temperature up to 1050°F • 3-Stage Airflow • 1400W • 120VAC **SDL1500-ND, SDL1550-ND:** • Temp.: 120°F ~ 1200°F • Airflow 3.6 ~ 17.6 CFM • Programmable • 1600W • 120VAC **SDL1600-ND:** • Temperature: 120°F ~ 1100°F • Airflow 3.6/10.6/17.6 CFM • 1500W • 120VAC **SDL1650-ND:** • Temperature: 120°F/750°F/1100°F • Airflow 3.6/10/15.9 CFM • 1200W • 120VAC **SDL1250-ND:** • Temperature: 212°F ~ 1100°F • Airflow 14.3 CFM • 1500W • 120VAC **SDL1950-ND:** • Temperature: 1400°F ~ 750°C • Rapid heat-up • Up to 120 minute continuous use • Removable deflector for shrink tube installation

Fig.	Description	Digi-Key Part No.	Price Each	Steinel Part No.
1	Heat Gun Dual Temperature, UltraHEAT™	SDL1700-ND	42.82	SV800
	Heat Gun Variable Temperature, UltraHEAT™ II	SDL1750-ND	60.55	SV803
	Heat Gun Kit with Case and Two Nozzles	SDL1450-ND	77.26	SV803K
	Heat Gun Programmable with LCD Display, ESD Safe	SDL1500-ND	282.04	HG2510ESD
	Heat Gun Programmable with LCD Display	SDL1550-ND	271.16	HG2310LCD
	Heat Gun Variable Temperature	SDL1600-ND	227.60	HL1910E
	Heat Gun 3-Stage Air and Temperature	SDL1650-ND	135.04	HL1810S
2	Variable Ergonomic Heat Gun	SDL1250-ND	205.83	HG2000E
—	Reducer-Reflector Nozzle 3/8" (9mm)	SDL1303-ND	22.87	SDL1303
	Reducer Nozzle Attachment 3/8" (9mm)	SDL1301-ND	13.61	SDL1301
	Reducer Nozzle Attachment 5/8" (14mm)	SDL1302-ND	13.61	SDL1302
	Reflector Nozzle 3" (75mm)	SDL1304-ND	19.05	SDL1304
	Reflector Nozzle 5/8" (14mm) (does not fit SDL1100)	SDL1305-ND	15.79	SDL1305
3	Flameless Heat Tool with Reflector Nozzle	SDL1950-ND	52.96	TS 310

Cordless Soldering Irons

These are the ultimate cordless heat tools for professionals seeking to combine performance, versatility and great value.

Features: • Multi-function tools may be used as soldering irons • Convenient portable torches • Safe and simple to use under most conditions

600 Series

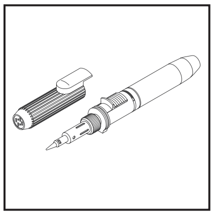

Specifications: • Soldering Iron Tip: 480°F ~ 1000°F/250°C ~ 550°C • Torch: 2500°F/1300°C • Accessories included: Soldering Tip and Protective Cap

ThermaSolder™ 600: TS 600, High capacity soldering iron with auto ignition and powerful 30W ~ 125W output. Refillable 38ml tank for 200 minutes of continuous use.
SDL1800-ND **$63.94**

ThermaSolder 600 Kit Includes: TS 600K Soldering Iron, Heat Blower Tip, Reflector Tip, Hot Knife Tip, Chisel Tip, Soldering Tip, Spare Orifice, Solder with Dispenser, Tip Cleaning Sponge, Protective Cap and Case.
SDL1850-ND **$98.92**

350 Series

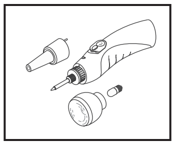

Specifications: • Soldering Iron Tip: 930°F/500°C maximum • 6W maximum • Power Source: 3, 1.5V Alkaline AA Batteries • Accessories included: Flashlight Attachment

ThermaSolder 350: TS 350, Anodized steel windproof mini torch with waterproof automatic ignition system. Adjustable flame, protective auto-flip cover and self standing base for highly versatile use. Includes convenient key chain.
SDL1900-ND **$28.96**

3M Heat Shrinkable Tubing

KYNAR®, EPS-300, SFTW202 GYS, SFTW203, 8420 & 8440 Series

KYNAR Series-Modified Polyvinylidene Fluoride: • **Shrink Temperature:** 175°C (347°F) • **Color:** Clear • **Shrink Ratio:** 2:1. Cross-linked, thin-walled tubing offers a high degree of mechanical strength and high temperature resistance. This has outstanding abrasion resistance and cut-through properties in combination with high dielectric strength. It is inherently flame retardant, semi-rigid and highly resistant to most industrial fuels, chemicals and solvents. KYNAR is a registered trademark of Elf Atochem North America, Inc. **EPS-300 Series-Adhesive-Lined Flexible Polyolefin:** • **Shrink Temperature:** 121°C (250°F) • **Color:** Black • **Shrink Ratio:** 3:1. Rapidly shrinks to a skintight fit, forcing the melted adhesive to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and water resistant barrier. **SFTW202 GYS Series-Very Flexible Polyolefin:** • **Shrink Temperature:** 100°C (212°F) • **Color:** Green and yellow striped • **Shrink Ratio:** 2:1. Meets performance requirements of MIL-I-23053/5 Class 1, and is UL Recognized (File No. E48398) for flame retardance. Can be easily surface painted. **SFTW203 Series-Very Flexible Polyolefin:** • **Shrink Temperature:** 100°C (212°F) • **Color:** Black • **Shrink Ratio:** 3:1. Meets performance requirements of MIL-I-23053/5 Class 1, and is UL Recognized (File No. E48398) for flame retardance. Can be easily surface painted. **8420 Series-EPDM and 8440 Series-Silicone Rubber Tubes:** • **Color:** Black (8420 Series) and Gray (8440 Series). Cold Shrink™ Insulators-Open-ended, tubular rubber sleeves that are factory expanded and assembled onto a removable plastic core. Provides a reliable seal without the use of heat, a torch or adhesive - simply position and unwind the core allowing the tube to shrink and form a water-resistant seal.

Tubing Size Diameter‡ Inches (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Nominal Recovered Wall Thick. mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
KYNAR Series - Modified Polyvinylidene Fluoride									
3/64 (1.19)	1.17	0.58	0.25	KY364C-ND	5.49	9.52	21.06	43.96	73.26
1/16 (1.60)	1.60	0.79	0.25	KY116C-ND	5.64	9.77	21.62	45.11	75.18
3/32 (2.38)	2.36	1.17	0.25	KY332C-ND	6.03	10.45	23.12	48.25	80.42
1/8 (3.18)	3.18	1.57	0.25	KY018C-ND	6.52	11.31	25.01	52.20	86.99
3/16 (4.78)	4.75	2.36	0.25	KY316C-ND	9.19	16.26	35.35	67.87	—
1/4 (6.35)	6.35	3.18	0.30	KY014C-ND	11.34	20.06	43.61	83.73	—
3/8 (9.52)	9.53	4.75	0.30	KY038C-ND	13.65	24.16	52.52	100.83	—
1/2 (12.70)	12.70	6.35	0.30	KY012C-ND	18.12	31.51	63.02	—	—

Tubing Size Dia.‡ Inch (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Recovered Wall Thickness Nominal mm	Recovered Wall Thickness Meltable mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
EPS-300 Series - Adhesive-lined, Flexible, Polyolefin										
1/8 (3.18)	3.18	1.02	1.02	0.51	EPS3018K-ND	9.98	17.30	38.26	79.84	120.60
3/16 (4.78)	4.75	1.57	1.02	0.51	EPS3316K-ND	9.48	16.77	36.47	67.83	—
1/4 (6.35)	6.35	2.03	1.02	0.51	EPS3014K-ND	11.74	20.77	45.15	83.98	—
3/8 (9.52)	9.53	3.05	1.40	0.62	EPS3038K-ND	13.28	23.50	51.08	95.01	—
1/2 (12.70)	12.70	4.06	1.78	0.76	EPS3012K-ND	15.52	27.46	59.70	111.04	—

Tubing Size Dia.‡ Inch (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Nominal Recovered Wall Thick. mm	(NOTE: "X" in Part No. Represents Number of Feet) Digi-Key Part No.	Price Per Length 5'	25'	50'	Reel Qty.	Price Per Full Reel
SFTW202 GYS Series - Very Flexible Polyolefin									
1/8 (3.18)	3.18	1.50	0.51	SFTW2018E-X-ND	6.34	25.37	36.36	500	262.53
3/16 (4.78)	4.76	2.50	0.55	SFTW2316E-X-ND	8.79	35.17	50.41	250	181.99
1/4 (6.35)	6.35	3.00	0.65	SFTW2014E-X-ND	9.71	38.84	55.66	200	160.78
3/8 (9.52)	9.53	4.50	0.76	SFTW2038E-X-ND	10.77	43.10	61.77	200	178.41
1/2 (12.70)	12.70	6.00	0.76	SFTW2012E-X-ND	12.10	48.41	69.39	200	200.43
SFTW203 Series - Very Flexible Polyolefin									
1/16 (1.59)	1.50	0.50	0.45	SFTW2116K-X-ND	2.28	9.11	13.06	1,000	188.63
1/8 (3.18)	3.00	1.00	0.55	SFTW2018K-X-ND	2.60	10.40	14.91	500	107.67
1/4 (6.35)	6.00	2.00	0.65	SFTW2014K-X-ND	3.95	15.78	22.62	200	65.33
3/8 (9.52)	9.00	3.00	0.75	SFTW2038K-X-ND	4.41	17.63	25.26	200	72.97
1/2 (12.70)	12.00	4.00	0.75	SFTW2012K-X-ND	4.97	19.89	28.51	200	82.34

‡ Indicates size BEFORE shrinking occurs.

Diameter Range Inches (mm)	Relaxed Tube Length Inches (mm)	Digi-Key Part No.	Pricing 1	10
8420 - EPDM Cold Shrink Tubes				
0.31 ~ 0.56 (7.87 ~ 14.22)	6.00 (152.40)	8423-6-ND	14.26	130.19
0.10 ~ 0.82 (2.54 ~ 20.83)	8.00 (203.20)	8424-8-ND	18.28	166.90
0.40 ~ 0.82 (10.16 ~ 20.83)	8.00 (203.20)	8425-8-ND	16.02	146.26
0.55 ~ 1.18 (13.97 ~ 29.97)	9.00 (228.60)	8426-9-ND	19.08	174.20
0.55 ~ 1.18 (13.97 ~ 29.97)	11.00 (279.40)	8426-11-ND	22.86	208.71
0.67 ~ 1.38 (17.02 ~ 35.05)	6.00 (152.40)	8427-6-ND	14.42	131.65
0.67 ~ 1.38 (17.02 ~ 35.05)	12.00 (304.80)	8427-12-ND	28.48	260.02
0.67 ~ 1.38 (17.02 ~ 35.05)	16.00 (406.40)	8427-16-ND	38.04	347.31
0.95 ~ 1.94 (24.13 ~ 49.28)	6.00 (152.40)	8428-6-ND	20.36	185.89
0.95 ~ 1.94 (24.13 ~ 49.28)	12.00 (304.80)	8428-12-ND	40.58	370.50
0.95 ~ 1.94 (24.13 ~ 49.28)	18.00 (457.20)	8428-18-ND	61.04	557.30
1.27 ~ 2.67 (32.26 ~ 67.82)	6.00 (152.40)	8429-6-ND	22.26	203.23
1.27 ~ 2.67 (32.26 ~ 67.82)	9.00 (228.60)	8429-9-ND	33.32	304.21
1.27 ~ 2.67 (32.26 ~ 67.82)	12.00 (304.80)	8429-12-ND	45.64	416.69
1.27 ~ 2.67 (32.26 ~ 67.82)	18.00 (457.20)	8429-18-ND	66.74	609.34
1.68 ~ 3.69 (42.67 ~ 93.73)	9.00 (228.60)	8430-9-ND	46.04	420.35
1.68 ~ 3.69 (42.67 ~ 93.73)	18.00 (457.20)	8430-18-ND	72.76	664.30
8440 - Silicone Cold Shrink Tubes				
0.27 ~ 0.56 (6.86 ~ 14.22)	2.00 (50.80)	8443-2-ND	8.70	79.43
0.27 ~ 0.56 (6.86 ~ 14.22)	6.50 (165.10)	8443-6.5-ND	12.08	110.29
0.35 ~ 0.72 (8.89 ~ 18.29)	2.50 (63.50)	8445-2.5-ND	9.04	82.54
0.35 ~ 0.72 (8.89 ~ 18.29)	7.50 (190.50)	8445-7.5-ND	13.22	120.70
0.48 ~ 0.95 (12.19 ~ 24.13)	3.20 (81.28)	8447-3.2-ND	11.08	101.16
0.48 ~ 0.95 (12.19 ~ 24.13)	8.00 (203.20)	8447-8-ND	15.92	145.35

EPS-200 and VFP-876 Series

EPS-200 Series: • **Shrink Temperature:** 121°C • **Color:** Black • **Shrink Ratio:** 2:1. Rapidly shrinks to a skintight fit, forcing the melted adhesive lining to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and water resistant barrier. Rated for operation at -55°C ~ 110°C (-67°F ~ 230°F). **VFP-876 Series-Very Flexible Polyolefin:** • **Shrink Temperature:** 100°C • **Color:** Black • **Shrink Ratio:** 2:1. Most flexible of the heat shrinkable, polyolefin tubings. Ideal for jacketing and insulation of flexible wire bundles and sensitive components.

Tubing Size Diameter‡ Inch (mm)	Inside Diameter Expanded Minimum mm	Inside Diameter Recovered Maximum mm	Nominal Recovered Wall Thick. mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
EPS-200 Series - Adhesive-lined, Flexible, Polyolefin									
1/8 (3.18)	3.18	1.60	0.69	EPS2018-ND	5.60	9.70	21.45	44.76	72.28
3/16 (4.76)	4.75	2.36	0.69	EPS2316-ND	5.28	9.33	20.29	37.74	—
1/4 (6.35)	6.35	3.18	0.76	EPS2014-ND	6.60	11.68	25.40	47.24	
3/8 (9.53)	9.52	4.75	0.79	EPS2038-ND	7.44	13.16	28.62	53.23	
1/2 (12.70)	12.70	6.35	0.81	EPS2012-ND	8.55	15.12	32.88	61.15	
3/4 (19.05)	19.05	9.52	0.94	EPS2034-ND	10.34	17.98	34.84	—	
1 (25.40)	25.40	12.70	1.17	EPS2100-ND	15.20	26.44	51.23	—	
1-1/2 (38.10)	38.10	19.05	1.24	EPS2112-ND	26.59	46.25	89.61	—	
2 (50.80)	50.80	25.40	1.52	EPS2200-ND	37.01	57.37	—	—	

Tubing Size Diameter‡ Inches (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Nominal Recovered Wall Thick. mm	Digi-Key Part No.	(NOTE: "X" in Part No. Represents Number of Feet) Price Per Length 5'	25'	50'	100'	200'
VFP-876 Series - Very Flexible Polyolefin, Self-extinguishing									
3/64 (1.19)	1.17	0.58	0.41	VFP364-X-ND	2.14	9.56	17.12	30.81	—
1/16 (1.59)	1.60	0.79	0.43	VFP116-X-ND	2.18	9.75	17.46	31.43	—
3/32 (2.38)	2.36	1.17	0.51	VFP332-X-ND	2.31	10.30	16.61	26.45	—
1/8 (3.18)	3.18	1.57	0.51	VFP018-X-ND	2.49	11.11	17.91	28.53	—
3/16 (4.76)	4.75	2.36	0.51	VFP316-X-ND	3.03	12.12	17.37	30.70	—
1/4 (6.35)	6.35	3.18	0.64	VFP014-X-ND	3.78	15.13	21.68	38.32	62.63
3/8 (9.53)	9.52	4.75	0.64	VFP038-X-ND	4.22	16.89	24.21	42.79	69.92
1/2 (12.70)	12.70	6.35	0.64	VFP012-X-ND	4.76	19.05	27.31	48.26	78.87
3/4 (19.05)	19.05	9.52	0.76	VFP034-X-ND	6.35	25.40	36.41	64.35	105.17
1 (25.40)	25.40	12.70	0.89	VFP100-X-ND	9.50	38.00	54.46	78.65	—
1-1/2 (38.10)	38.10	19.05	1.02	VFP112-X-ND	17.70	70.81	101.49	146.57	—
2 (50.80)	50.80	25.40	1.14	VFP200-X-ND	24.46	97.85	140.24	202.54	—

‡ Indicates size BEFORE shrinking occurs.

Colored Heat Shrinkable Tubing

FP-301 Series

Available in 7 Colors: (K = Black, C = Clear, B = Blue, G = Green, R = Red, W = White, Y = Yellow)
• **Shrink Temperature:** 121°C • **Shrink Ratio:** 2:1. Tubing is split resistant, mechanically tough, easily marked and resist cold flow, for UL, CSA and Mil-I-23053/5 applications at 600V @ 125°C.

Tubing Size Diameter‡ Inches (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Nominal Recovered Wall Thick. mm	Digi-Key Part No.	(NOTE: "X" in Part No. Represents Number of Feet) Price Per Length 5'	25'	50'	100'	200'	250'
FP-301 Series - Flexible Polyolefin, Self-extinguishing, Flame Retardant, Color										
3/64 (1.19)	1.17	0.58	0.41	FP364☐-X-ND†	1.81	8.11	14.54	26.17	—	52.09
1/16 (1.59)	1.60	0.79	0.43	FP116☐-X-ND	1.81	8.10	14.51	26.11	—	51.98
3/32 (2.38)	2.36	1.17	0.51	FP332☐-X-ND	1.92	8.59	13.83	22.03	—	48.68
1/8 (3.18)	3.18	1.57	0.51	FP018☐-X-ND	2.03	9.07	14.61	23.27	—	51.41
3/16 (4.76)	4.75	2.36	0.51	FP316☐-X-ND	2.36	9.46	13.56	23.96	—	53.09
1/4 (6.35)	6.35	3.18	0.64	FP014☐-X-ND	2.95	11.83	16.94	29.94	53.10	—
3/8 (9.53)	9.52	4.75	0.64	FP038☐-X-ND	3.30	13.19	18.91	33.42	59.27	—
1/2 (12.70)	12.70	6.35	0.64	FP012☐-X-ND	3.97	15.86	22.72	40.16	66.84	—
3/4 (19.05)	19.05	9.52	0.76	FP034☐-X-ND	5.28	21.13	30.27	53.51	89.13	—
1 (25.40)	25.40	12.70	0.89	FP100☐-X-ND	7.90	31.59	45.27	66.59	—	—
1-1/2 (38.10)	38.10	19.05	1.02	FP112☐-X-ND†	12.97	51.87	74.34	124.12	—	—
2 (50.80)	50.80	25.40	1.14	FP200☐-X-ND†	17.92	71.69	102.76	171.54	—	—

‡ Indicates size BEFORE shrinking occurs. † Not available in green.

Note: For complete number, substitute ☐ with appropriate color (K = Black, C = Clear, B = Blue, G = Green, R = Red, W = White, Y = Yellow) and substitute "X" with length choice.

FPC-KIT-ND ***Digi-Key® FP-301 Series Kit*** One 5 foot tubing of each color in the following series: FP364, FP116, FP332, FP018, FP316, FP014, FP038 and FP012 (55 pieces total of 8 sizes).. **$71.95**

Heat Shrink Precut Lengths and Kits

FP-301 Series-Flexible Polyolefin: • **Shrink Temperature:** 121°C • **Color:** Black • **Shrink Ratio:** 2:1. Tubing is split resistant, mechanically tough, easily marked and resist cold flow, for UL, CSA and Mil-I-23053/5 applications at 600V @ 125°C.

VFP-876 Series-Very Flexible Polyolefin: • **Shrink Temperature:** 100°C • **Color:** Black • **Shrink Ratio:** 2:1. Most flexible of the heat shrinkable, polyolefin tubings. Ideal for jacketing and insulation of flexible wire bundles and sensitive components.

Tubing Size Diameter x Length‡ Inches (mm)	Inside Diameter Minimum Expanded mm	Inside Diameter Maximum Recovered mm	Nominal Recovered Wall Thickness mm	Digi-Key Part No.	Pricing (50 pcs./Bag) 1 Bag	5 Bags
FP-301 Series — Self-extinguishing						
3/64 x 1/2 (1.19 x 12.70)	1.19	0.58	0.41	FP364K-R50-ND	1.09	4.36
1/16 x 1/2 (1.59 x 12.70)	1.60	0.79	0.43	FP116K-R50-ND§	1.11	4.44
3/32 x 1/2 (2.38 x 12.70)	2.38	1.19	0.51	FP332K-R50-ND§	1.18	4.71
1/8 x 3/4 (3.18 x 19.05)	3.18	1.57	0.51	FP018K-R75-ND§	1.69	6.77
3/16 x 3/4 (4.76 x 19.05)	4.76	2.38	0.51	FP316K-R75-ND§	2.06	8.22
1/4 x 1 (6.35 x 25.40)	6.35	3.18	0.64	FP014K-1R0-ND§	3.21	12.85
1/4 x 1-1/2 (6.35 x 38.10)	6.35	3.18	0.64	FP014K-1R5-ND§	4.50	17.99
3/8 x 1-1/2 (9.53 x 38.10)	9.53	4.76	0.64	FP038K-1R5-ND	5.02	20.08
1/2 x 1-1/2 (12.70 x 38.10)	12.70	6.35	0.64	FP012K-1R5-ND	5.66	22.64
VFP-876 Series — Self-extinguishing						
3/64 x 1/2 (1.19 x 12.70)	1.19	0.58	0.41	VFP364-R50-ND	1.28	5.13
1/16 x 1/2 (1.59 x 12.70)	1.60	0.79	0.41	VFP116-R50-ND†	1.31	5.24
3/32 x 1/2 (2.38 x 12.70)	2.38	1.19	0.51	VFP332-R50-ND†	1.38	5.54
1/8 x 3/4 (3.18 x 19.05)	3.18	1.57	0.51	VFP018-R75-ND†	1.99	7.96
3/16 x 3/4 (4.76 x 19.05)	4.76	2.38	0.58	VFP316-R75-ND†	2.42	9.70
1/4 x 1 (6.35 x 25.40)	6.35	3.18	0.71	VFP014-1R0-ND†	3.78	15.13
1/4 x 1-1/2 (6.35 x 38.10)	6.35	3.18	0.71	VFP014-1R5-ND†	5.29	21.18
3/8 x 1-1/2 (9.53 x 38.10)	9.53	4.76	0.71	VFP038-1R5-ND	5.91	23.65
1/2 x 1-1/2 (12.70 x 38.10)	12.70	6.35	0.71	VFP012-1R5-ND	6.67	26.67

‡ Indicates size BEFORE shrinking occurs.

§ **FP-KIT-ND** ***Digi-Key® FP-301 Series Kit*** 50 each of pieces denoted (Exception: FP116K-R50-ND has 100 pieces), 350 total pieces. Black. Plastic box and label card included.. **$18.95**

† **VFP-KIT-ND** ***Digi-Key® VFP-876 Series Kit*** 50 each of pieces denoted (Exception: VFP116-R50-ND has 100 pieces), 350 total pieces. Plastic box and label card included.. **$19.95**

CWT-900X Series – Solder Sleeve Wire Splices

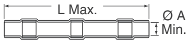

Materials: • **Insulation Sleeve:** Heat-shrinkable, radiation cross-linked modified polyolefin. Transparent clear. • **Solder Preform with Flux:** *Solder:* Type CD18 per ANSI/J-STD-006 *Flux:* Type ROM1 per ANSI/J-STD-004 **Application:** These controlled soldering devices are designed to splice tin-plated or bare copper stranded wires rated for at least 85°C. **Temperature Range:** -55°C ~ 125°C

AWG (Color)	Dimensions - Inches (mm)		Digi-Key Part No.	Pricing			Raychem Part No.
	Diameter A Minimum	Length - L Maximum		10	50	100	
24-20 (Clear)	.065 (1.7)	1.025 (26.0)	CWT9001-ND	10.34	46.24	76.16	CWT-9001
18-16 (Red)	.105 (2.7)	1.655 (42.0)	CWT9002-ND	11.32	50.66	83.44	CWT-9002
16-12 (Blue)	.180 (4.5)	1.655 (42.0)	CWT9003-ND	11.90	53.25	87.71	CWT-9003

CWT-150X Series – Wire Termination to Pin, Post or Tab

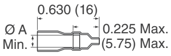

Materials: • **Insulation Sleeve:** Heat-shrinkable, transparent clear, radiation cross-linked modified polyolefin • **Solder Preform with Flux:** *Solder:* Type Cd18 per ANSI-J-STD-006 *Flux:* Type ROM1 per ANSI-J-STD-004 **Application:** These controlled soldering devices are designed for termination of a wire to the lead of electrical component or to the terminal of a connector. **Temperature Range:** -55°C ~ 125°C

Dimensions - Inches (mm)		Digi-Key Part No.	Pricing			Raychem Part No.
Diameter A - Min.	Pin Diameter - Max.		10	50	100	
.060 (1.5)	.025 (0.6)	CWT1501-ND	9.42	42.16	69.44	CWT-1501
.090 (2.3)	.035 (0.9)	CWT1502-ND	9.85	44.05	72.56	CWT-1502
.110 (2.8)	.045 (1.2)	CWT1503-ND	10.37	46.41	76.44	CWT-1503

Note: Please refer to data sheet for Post or Tab sizes

CWT-X-W122-5 Series – Shield Terminators

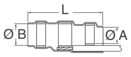

Materials: • **Insulation Sleeve:** Transparent heat-shrinkable radiation cross-linked modified polyolefin • **Solder Preform with Flux:** *Solder:* Type Cd18 per ANSI/J-STD-006 *Flux:* Type ROM1 per ANSI/J-STD-004 • **Ground Lead:** Raychem cross-linked polyethylene wire, AWG22, stranded tin plated copper • **Color:** Green **Application:** These controlled soldering devices are designed for termination of a bare or tin plated copper shield on a cable having an insulation rated for at least 85°C. **Temperature Range:** -55°C ~ 125°C

Dimensions - Inches (mm)			Digi-Key Part No.	Pricing			Raychem Part No.
Diameter A Minimum	Diameter B Minimum	Length - L Maximum		10	50	100	
.098 (2.50)	.118 (3.00)	.965 (24.50)	CWT3W1225-ND	39.79	178.01	293.20	CWT-3-W122-5
.169 (4.30)	.189 (4.80)	1.154 (29.30)	CWT5W1225-ND	30.22	135.21	222.71	CWT-5-W122-5
.252 (6.40)	.287 (7.30)	1.280 (32.50)	CWT7W1225-ND	23.38	104.59	172.27	CWT-7-W122-5

S01-0X-R Series – Shield Terminators

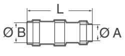

Materials: • **Insulation Sleeve:** Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidene fluoride • **Solder Preform with Flux and Thermal Indicator:** *Solder:* Type Sn63 per ANSI-J-STD-006 *Flux:* Type ROL1 per ANSI-J-STD-004 *Thermal Indicator:* Color change: violet to colorless **Application:** These parts are designed to make an environment resistant shield termination • **Jacket Rating:** 125°C • Parts are qualified to M83519/1

Dimensions - Inches (mm)			Digi-Key Part No.	Pricing			Raychem Part No.
Diameter A Minimum	Diameter B Minimum	Length - L Nominal		10	50	100	
.075 (1.90)	.105 (2.65)	.65 (16.5)	S0101R-ND	25.67	114.86	189.18	S01-01-R
.105 (2.65)	.145 (3.68)	.65 (16.5)	S0102R-ND	25.32	113.28	186.59	S01-02-R
.170 (4.30)	.200 (5.08)	.65 (16.5)	S0103R-ND	26.82	120.00	197.65	S01-03-R
.235 (5.95)	.255 (6.45)	.75 (19.1)	S0104R-ND	31.90	142.72	235.06	S01-04-R
.275 (7.00)	.300 (7.60)	.75 (19.1)	S0105R-ND	37.02	165.60	272.76	S01-05-R

D-406 Series – DURASEAL® Closed Barrel / Crimp Splice

RoHS COMPLIANT

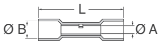

Materials: • **Insulation Sleeve:** Heat shrinkable, radiation cross-linked polyamide (nylon) with a polyamide-based hot-melt adhesive liner. Color per table. • **Crimp Splice:** Tin-plated copper alloy **Application:** These parts may be used to obtain an environment-resistant one-to-one in-line (butt) splice in wires meeting the size range and diameter restraints specified herein and having a temperature rating of not less than 85°C.

AWG (Color)	Dimensions - Inches (mm)			Digi-Key Part No.	Pricing			Raychem Part No.
	Diameter A Minimum	Diameter B Minimum	Length - L Nominal		10	50	100	
18-22 (Red)	.058 (1.47)	.146 (3.70)	1.24 (31.5)	D4060001-ND	11.78	52.70	86.80	D-406-0001
14-16 (Blue)	.092 (2.33)	.181 (4.60)	1.24 (31.5)	D4060002-ND	11.78	52.70	86.80	D-406-0002
10-12 (Yellow)	.138 (3.50)	.255 (6.50)	1.48 (37.5)	D4060003-ND	15.98	71.51	117.78	D-406-0003

NEW! Heat Shrinkable Caps

RoHS COMPLIANT

PD and ES Caps Series

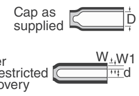

PD Caps Series – Semirigid, Encapsulant-lined: Dual wall PD Caps inexpensively encapsulate crimped electrical connections, including those on motor coils. They remain tightly in place for the life of the motor. • **Full Recovery Temperature:** 135°C • **Operating Temperature:** -55°C ~ 110°C • UL Recognized File No. E85381 • CSA Certified LR31929

ES Caps Series – Semirigid, Adhesive-lined, Polyolefin: ES Caps are specifically designed to provide mechanical and environmental protection of stub splices in electrical harnesses. Clear ES Caps allow see-through inspection; black ES Caps are flame-retardant. • **Full Recovery Temperature:** 135°C • **Operating Temperature:** -40°C ~ 105°C • UL Recognized File No. E85381

Tubing Size ‡	Inside Diameter		Recovered Wall Thick.† W mm	Digi-Key Part No.	Pricing			Raychem Part No.
	Expanded D - Min. mm	Recovered d - Max. mm			100	500	1,000	
PD Caps Series – Black								
1/8	3.2	0.58	1.22	PDC018K-ND	7.24	31.68	54.30	PD-CAP-1/8-0
3/16	4.7	1.52	1.57	PDC316K-ND	7.60	33.26	57.02	PD-CAP-3/16-0
1/4	6.4	2.03	1.98	PDC014K-ND	12.56	54.97	94.23	PD-CAP-1/4-0
3/8	9.5	2.29	2.08	PDC038K-ND	22.55	98.67	169.16	PD-CAP-3/8-0
1/2	12.7	2.29	2.54	PDC012K-ND	37.95	166.05	284.66	PD-CAP-1/2-0

Min. ‡ Length mm	Inside Diameter		Recov. Wall Thick.†		Digi-Key Part No.	Pricing			Raychem Part No.
	Expand. D - Min. mm	Recov. d - Max. mm	Total W mm	Meltable W1 mm		100	500	1,000	
ES Caps Series - Clear									
30	5.70	1.27	1.20	0.56	ESC30C-ND	12.25	53.59	91.88	ES-CAP-NO.1-C1-X-30MM
35	5.70	1.27	1.20	0.56	ESC35C-ND	13.88	60.74	104.13	ES-CAP-NO.1-C1-X-35MM
30	7.40	1.65	1.52	0.76	ESB30C-ND	14.74	64.47	110.52	ES-CAP-NO.2-B9-X-30MM
35	7.40	1.65	1.52	0.76	ESB35C-ND	16.48	72.12	123.63	ES-CAP-NO.2-B9-X-35MM
40	10.85	2.41	1.91	1.02	ESB40C-ND	29.51	129.12	221.36	ES-CAP-NO.3-B8-X-40MM
50	10.85	2.41	1.91	1.02	ESB50C-ND	35.77	156.48	268.25	ES-CAP-NO.3-B8-X-50MM
ES Caps Series - Black									
30	5.70	1.27	1.20	0.56	ESC30K-ND	12.25	53.59	91.88	ES-CAP-NO.1-C1-0-30MM
35	5.70	1.27	1.20	0.56	ESC35K-ND	13.88	60.74	104.13	ES-CAP-NO.1-C1-0-35MM
30	7.40	1.65	1.52	0.76	ESB30K-ND	14.74	64.47	110.52	ES-CAP-NO.2-B9-0-30MM
35	7.40	1.65	1.52	0.76	ESB35K-ND	16.48	72.12	123.63	ES-CAP-NO.2-B9-0-35MM
40	10.85	2.41	1.91	1.02	ESB40K-ND	29.51	129.12	221.36	ES-CAP-NO.3-B8-0-40MM
50	10.85	2.41	1.91	1.02	ESB50K-ND	35.77	156.48	268.25	ES-CAP-NO.3-B8-0-50MM

† Wall thickness will be less if tubing recovery is restricted during shrinkage ‡ Size before shrinking

Heat-Shrink Tubing

RoHS COMPLIANT

ATUM, DWP-125, and TAT-125 Series

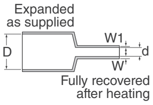

ATUM Series – Adhesive-lined, High-Shrink-Ratio, Polyolefin:

• **Shrink Temperature:** 80°C • **Full Recovery Temperature:** 110°C • **Operating Temperature:** -55°C ~ 110°C • **Color:** Black • **Shrink Ratio:** 3:1 and 4:1 • UL Recognized file No. E85381 • Military AMS-DTL-23053/4 **Applications:** • Environmentally seals and protects a wide variety of electrical applications, including back end connector sealing, breakouts, and connector-to-cable transitions. High expansion ratio makes it possible to repair most damaged cable jackets without removing connectors. • Bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, aluminum, steel, and copper. • Dual Wall

DWP-125 Series – Adhesive-lined, Flexible, High-Shrink-Ratio, Polyolefin:

• **Shrink Temperature:** 80°C • **Full Recovery Temperature:** 125°C • **Operating Temperature:** -40°C ~ 110°C • **Color:** Black • **Shrink Ratio:** 3:1 • UL Recognized file No. E35586 • CSA Certified LR31929 • Military AMS-DTL-23053/4 **Applications:** • Environmentally seals and protects a wide variety of electrical applications, including wire splices, breakouts, and connector-to-cable transitions. Ideal for applications where UL recognized/CSA certified adhesive-lined tubing is required. • Bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, neoprene, and steel. • Dual Wall

TAT-125 Series – Adhesive-lined, Flexible, Polyolefin:

• **Shrink Temperature:** 95°C • **Full Recovery Temperature:** 121°C • **Operating Temperature:** -55°C ~ 110°C • **Color:** Black • **Shrink Ratio:** 2:1 • UL Recognized file No. E85381 • Military AMS-DTL-23053/4 **Applications:** • Seals and protects simple in-line splices, bimetallic joints, and components from fluids, moisture, and corrosion. Repairs damaged wire insulation, especially where flexibility is required. Provides one-step electrical insulation and moisture sealing. • Bonds to a wide variety of plastics, rubbers, and metals, including polyethylene, neoprene, lead, and steel. • Dual Wall

Tubing Size ‡	Inside Diameter		Recov. Wall Thick.†		Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length				
	Expand. D - Min. mm	Recov. d - Max. mm	Total W mm	Meltable W1 mm		4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
ATUM Series										
3/1	3.0	1.0	1.00	0.50	ATU031K-ND	6.99	12.11	26.78	55.89	93.15
6/2	6.0	2.0	1.00	0.50	ATU062K-ND	10.63	18.43	40.76	85.06	141.76
9/3	9.0	3.0	1.40	0.61	ATU093K-ND	22.49	38.98	86.20	179.89	299.82
12/4	12.0	4.0	1.78	0.76	ATU124K-ND	26.77	46.40	102.62	214.16	356.93
19/6	19.0	6.0	2.25	0.76	ATU196K-ND	37.48	64.96	143.66	299.81	499.68
24/8	24.0	8.0	2.54	1.02	ATU248K-ND	27.24	47.22	104.42	217.93	363.22
40/13	40.0	13.0	2.54	1.02	ATU4013K-ND	85.51	148.22	327.80	684.10	1140.16
4/1	4.0	1.0	1.00	0.50	ATM041K-ND§	8.88	15.40	34.06	71.08	118.46
8/2	8.0	2.0	1.00	0.50	ATM082K-ND§	12.44	21.56	47.67	99.49	165.82
12/3	12.0	3.0	1.40	0.61	ATM123K-ND§	30.64	53.11	117.46	245.13	408.54
16/4	16.0	4.0	1.78	0.76	ATM164K-ND§	40.85	70.81	156.61	326.83	544.72
24/6	24.0	6.0	2.25	0.76	ATM246K-ND§	32.87	56.98	126.00	262.96	438.27
32/8	32.0	8.0	2.54	1.02	ATM328K-ND§	44.42	76.99	170.27	355.35	592.26
52/13	52.0	13.0	2.54	1.02	ATM5213K-ND§	56.86	98.55	217.95	454.85	758.08
NEW! DWP-125 Series NEW!										
1/8	3.2	1.0	1.02	0.25	DWP018K-ND	6.20	10.75	23.78	49.62	82.70
3/16	4.8	1.5	1.40	0.51	DWP316K-ND	6.46	11.20	24.78	51.71	86.18
1/4	6.4	2.0	1.45	0.56	DWP014K-ND	8.10	14.03	31.04	64.77	107.95
3/8	9.5	3.0	1.65	0.68	DWP038K-ND	8.94	15.49	34.26	71.50	119.17
1/2	12.7	4.0	1.78	0.76	DWP012K-ND	8.93	15.48	34.24	71.46	119.10
3/4	19.1	6.0	2.03	0.76	DWP034K-ND	12.51	21.68	47.94	100.04	166.74
1	25.4	8.0	2.50	0.76	DWP001K-ND	17.42	30.19	66.77	139.34	232.24
1-1/2	38.1	13.0	2.50	0.76	DWP112K-ND	57.86	100.29	221.78	462.85	771.42
TAT-125 Series										
1/8	3.2	1.6	0.69	0.23	TAT018K-ND	6.33	10.97	24.25	50.61	84.35
3/16	4.8	2.4	0.71	0.25	TAT316K-ND	7.69	13.33	29.49	61.55	102.58
1/4	6.4	3.2	0.74	0.13	TAT014K-ND	9.65	16.72	36.97	77.16	128.61
3/8	9.5	4.8	0.74	0.13	TAT038K-ND	10.76	18.65	41.25	86.09	143.49
1/2	12.7	6.4	0.76	0.15	TAT012K-ND	13.38	23.19	51.28	107.01	178.35
3/4	19.1	9.5	0.89	0.15	TAT034K-ND	17.81	30.87	68.26	142.46	237.44
1	25.4	12.7	1.07	0.20	TAT001K-ND	17.44	30.23	66.87	139.55	232.58
1-1/2	38.1	19.1	1.19	0.28	TAT112K-ND	30.98	53.69	118.74	247.80	413.01

† Wall thickness will be less if tubing recovery is restricted during shrinkage ‡ Size before shrinking § ***NEW!***

NEW! DWP-125 Heat Shrink Tubing Kits

DWP3-KIT-ND 1/8" 25 pcs., 3/16" 25 pcs., 1/4" 24 pcs., 1/2" 10 pcs., 3/4" 5 pcs., 1" 3 pcs., Black............. **$101.48**

Refill parts:

DWP018M-ND	1/8" 25 pieces, Black..............	**$15.32**	**DWP012M-ND**	1/2" 10 pieces, Black..............	**$15.32**
DWP316M-ND	3/16" 25 pieces, Black.............	**$15.32**	**DWP034M-ND**	3/4" 5 pieces, Black	**$15.32**
DWP014M-ND	1/4" 24 pieces, Black..............	**$15.32**	**DWP001M-ND**	1" 3 pieces, Black	**$15.32**

ES1000C-ND ES1000-NO.1, 6 pcs.; ES1000-NO.2, 5 pcs.; ES1000-NO.3, 5 pcs.; ES1000-NO.4, 3 pcs.; Clear **$14.88**

Note: All kits have 6" pieces

(Continued)

Raychem Heat Shrink Tubing *(Cont.)*

RW-175, RNF-100, and Versafit Series

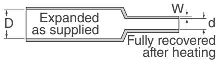

RW-175 Series – Thin-wall, Semirigid, Fluoropolymer:

• **Shrink Temperature:** 155°C • **Full Recovery Temperature:** 175°C • **Operating Temperature:** -55°C ~ 175°C • **Shrink Ratio:** 2:1 • **Color:** Clear • UL Recognized File No. E35586 VW-1 • CSA Certified LR31929 VW-1 • AMS-DTL-23053/8 • Suitable for applications requiring high-temperature performance, outstanding abrasion and cut-through resistance, or superior chemical and solvent properties. The translucent polyvinylidene fluoride material permits visual inspection of covered components

RNF-100 Series – Flexible, Flame-retardant, High Performance Polyolefin:

• **Shrink Temperature:** 95°C • **Full Recovery Temperature:** 121°C • **Operating Temperature:** -55°C ~ 135°C • **Shrink Ratio:** 2:1 • **Color:** Black • UL Recognized File No. E35586 • CSA Certified LR31929 • AMS-DTL-23053/5 • High-quality, heat-shrinkable product for a wide variety of uses. It has become the industry standard for insulation, strain relief, wire bundling, and color-coding in both commercial and military applications. Excellent physical, chemical and electrical properties that meet industrial and military requirements for a highly reliable, general-purpose tubing.

Versafit Series – Highly Flame-retardant, Low Recovery Temperature:

• **Shrink Temperature:** 70°C • **Full Recovery Temperature:** 90°C • **Operating Temperature:** -55°C ~ 135°C • **Shrink Ratio:** 2:1 • **Color:** Black • UL Recognized File No. E35586 VW-1 • CSA Certified LR31929 VW-1 • AMS-DTL-23053/5 • Cost-effective for commercial and military applications. It is made from a specially formulated, cross-linked polyolefin to provide high flame-retardance, excellent flexibility, and low shrink temperature (to reduce installation time).

Tubing Size Diameter‡ Inches (mm)	Min. Expand. D mm	Max. Recov. d mm	Nom. Recov. Wall Thick.† W mm	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
RW-175 Series - Thin wall, Semirigid, Fluoropolymer									
3/64 (1.19)	1.2	0.6	0.25	RW364C-ND	4.59	7.95	17.58	36.69	61.15
1/16 (1.60)	1.6	0.8	0.25	RW116C-ND	4.82	8.35	18.46	38.53	64.22
3/32 (2.38)	2.4	1.2	0.25	RW332C-ND	5.35	9.27	20.51	42.80	71.33
1/8 (3.18)	3.2	1.6	0.25	RW018C-ND	5.83	10.11	22.35	46.65	77.74
3/16 (4.78)	4.7	2.4	0.25	RW316C-ND	9.09	15.76	34.85	72.74	121.23
1/4 (6.35)	6.4	3.2	0.33	RW014C-ND	11.45	19.85	43.89	91.60	152.67
3/8 (9.52)	9.5	4.7	0.33	RW038C-ND	13.76	23.85	52.75	110.08	183.47
1/2 (12.70)	12.7	6.4	0.33	RW012C-ND	24.59	42.63	94.28	196.75	327.92
3/4 (19.05)	19.1	9.5	0.43	RW034C-ND	45.25	78.43	173.45	361.99	603.31
RNF-100 Series - Flexible, Flame-retardant, High Performance Polyolefin									
3/64 (1.19)	1.2	0.6	0.40	RNF364K-ND	1.77	3.07	6.79	14.18	23.63
1/16 (1.60)	1.6	0.8	0.43	RNF116K-ND	1.82	3.15	6.97	14.54	24.24
3/32 (2.38)	2.4	1.2	0.51	RNF332K-ND	1.92	3.33	7.36	15.37	25.62
1/8 (3.18)	3.2	1.6	0.51	RNF018K-ND	2.06	3.57	7.89	16.47	27.46
3/16 (4.78)	4.7	2.4	0.51	RNF316K-ND	2.50	4.34	9.60	20.03	33.38
1/4 (6.35)	6.4	3.2	0.64	RNF014K-ND	3.14	5.44	12.02	25.09	41.82
3/8 (9.52)	9.5	4.8	0.64	RNF038K-ND	3.51	6.08	13.45	28.07	46.78
1/2 (12.70)	12.7	6.4	0.64	RNF012K-ND	4.36	7.56	16.73	34.92	58.19
3/4 (19.05)	19.1	9.5	0.76	RNF034K-ND	5.85	10.13	22.41	46.77	77.95
1 (25.4)	25.4	12.7	0.89	RNF001K-ND	8.90	15.43	34.11	71.19	118.66
1 1/2 (38.1)	38.1	19.1	1.02	RNF112K-ND	12.27	21.26	47.02	98.13	163.55
2 (50.8)	50.8	25.4	1.14	RNF002K-ND	15.19	26.32	58.22	121.50	202.50
3 (76.2)	76.2	38.1	1.27	RNF003K-ND	38.28	66.36	146.75	306.27	510.45
4 (101.6)	101.6	50.8	1.40	RNF004K-ND	63.81	110.60	244.59	510.44	850.74

Tubing Size Diameter‡ Inches (mm)	Min. Expand. D mm	Max. Recov. d mm	Nom. Recov. Wall Thick.† W mm	Digi-Key Part No.	Spool Size Feet	Price Per Spool	Raychem Part No.
RNF-100 Series - Flexible, Flame-retardant, High Performance Polyolefin							
3/64 (1.19)	1.2	0.6	0.40	RNF364K-100-ND	100	20.26	RFN-100-MINI-SPL-3/64-BK
1/16 (1.60)	1.6	0.8	0.43	RNF116K-75-ND	75	20.26	RFN-100-MINI-SPL-1/16-BK
3/32 (2.38)	2.4	1.2	0.51	RNF332K-65-ND	65	20.26	RFN-100-MINI-SPL-3/32-BK
1/8 (3.18)	3.2	1.6	0.51	RNF018K-60-ND	60	20.26	RFN-100-MINI-SPL-1/8-BK
3/16 (4.78)	4.7	2.4	0.51	RNF316K-50-ND	50	20.26	RFN-100-MINI-SPL-3/16-BK
1/4 (6.35)	6.4	3.2	0.64	RNF014K-40-ND	40	20.26	RFN-100-MINI-SPL-1/4-BK
3/8 (9.52)	9.5	4.8	0.64	RNF038K-35-ND	35	20.26	RFN-100-MINI-SPL-3/8-BK
1/2 (12.70)	12.7	6.4	0.64	RNF012K-30-ND	30	20.26	RFN-100-MINI-SPL-1/2-BK
3/4 (19.05)	19.1	9.5	0.76	RNF034K-25-ND	25	20.26	RFN-100-MINI-SPL-3/4-BK
1 (25.4)	25.4	12.7	0.89	RNF001K-15-ND	15	20.26	RFN-100-MINI-SPL-1-BK
Versafit - Highly Flame-retardant, Low Recovery Temperature							
3/64 (1.19)	1.63	0.6	0.40	VER364K-100-ND	100	20.43	VERSAFIT-MINI-SPL-3/64-BK
1/16 (1.60)	1.85	0.8	0.43	VER116K-75-ND	75	20.43	VERSAFIT-MINI-SPL-1/16-BK
3/32 (2.38)	2.79	1.2	0.51	VER332K-65-ND	65	20.43	VERSAFIT-MINI-SPL-3/32-BK
1/8 (3.18)	3.43	1.6	0.51	VER018K-60-ND	60	20.43	VERSAFIT-MINI-SPL-1/8-BK
3/16 (4.78)	5.21	2.4	0.51	VER316K-50-ND	50	20.43	VERSAFIT-MINI-SPL-3/16-BK
1/4 (6.35)	7.11	3.2	0.64	VER014K-40-ND	40	20.43	VERSAFIT-MINI-SPL-1/4-BK
3/8 (9.52)	10.16	4.8	0.64	VER038K-35-ND	35	20.43	VERSAFIT-MINI-SPL-3/8-BK
1/2 (12.70)	13.72	6.4	0.64	VER012K-30-ND	30	20.43	VERSAFIT-MINI-SPL-1/2-BK
3/4 (19.05)	20.45	9.5	0.76	VER034K-25-ND	25	20.43	VERSAFIT-MINI-SPL-3/4-BK
1 (25.4)	25.53	12.7	0.89	VER001K-15-ND	15	20.43	VERSAFIT-MINI-SPL-1-BK

† Wall thickness will be less if tubing recovery is restricted during shrinkage ‡ Size before shrinking

Versafit Heat Shrink Tubing Kits

VERSA1-KIT-ND 3/16” 30 pcs., 1/4” 28 pcs., 3/8” 24 pcs., 1/2” 20 pcs., 3/4” 14 pcs., 1” 10 pcs., Black........... **$67.66**

Refill parts:

VER316K-ND 3/16” 30 pieces, Black **$8.46**
VER014K-ND 1/4” 28 pieces, Black..................**$8.46**
VER038K-ND 3/8” 24 pieces, Black..................**$8.46**
VER012K-ND 1/2” 20 pieces, Black..................**$8.46**
VER034K-ND 3/4” 14 pieces, Black..................**$8.46**
VER001K-ND 1” 10 pieces, Black....................**$8.64**

VERSA2-KIT-ND Color Kit includes Red, Black, Yellow, Clear, White, Green and Blue tubing.
3/32” 35 pcs. (5 of each color), 1/8” 28 pcs. (4 of each color), 3/16” 21 pcs. (3 of each color),
1/4” 21 pcs. (3 of each color), 3/8” 14 pcs. (2 of each color), 1/2” 14 pcs. (2 of each color) **$72.14**

Refill parts:

VER332M-ND ***NEW!*** 3/32” 35 pieces, Black.....**$8.46**
VER018M-ND ***NEW!*** 1/8” 28 pieces, Black **$8.46**
VER316M-ND ***NEW!*** 3/16” 21 pieces, Black.....**$8.46**
VER014M-ND ***NEW!*** 1/4” 21 pieces, Black **$8.46**
VER038M-ND ***NEW!*** 3/8” 14 pieces, Black **$8.46**
VER012M-ND ***NEW!*** 1/2” 14 pieces, Black **$8.46**

VERSA4-KIT-ND 3/16”, 1/4”, 3/8”, 1/2”, 3/4” and 1” 18 pieces (3 pieces of each size), Black **$8.46**
VERSA6-KIT-ND 3/64”, 1/16”, 3/32” and 1/8” 24 pieces (6 pieces of each size), Black **$8.46**

Note: All kits have 6” pieces

NEW! Quick Shrink Wrap

Heat-shrinkable wraparound repair sleeves combine the ease of insulation of self-adhesive tapes with the superior sealing and insulating capabilities of heat-shrinkable tubing. The black, adhesive-backed polyolefin wraparound sleeves permit fast, permanent repairs of minor damage to cable insulation without requiring the connector to be removed from the cable prior to repair. The sleeves can also be used to organize and group wire bundles. • Wall Thickness: 0.65mm

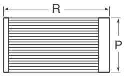

Dimensions - mm P	R	Digi-Key Part No.	Price Each 1	5	10
60	100	QSW60100-ND	7.88	6.90	6.31
60	200	QSW60200-ND	13.28	11.62	10.63
60	300	QSW60300-ND	18.38	16.09	14.71
100	100	QSW100100-ND	9.60	8.40	7.68
100	200	QSW100200-ND	17.42	15.25	13.94
100	300	QSW100300-ND	24.66	21.58	19.73

DABURN Shrinkable Tubing – Black Polyolefin

The most widely used, general purpose heat shrinkable tubing. An irradiated flexible, flame-retardant polyolefin tubing with a wide scope of applications. These include: harnessing, wire bundling, strain reliefs, or any application where components or cables must be insulated or packaged. **Specifications:** • UL224 • CSA Approved • AMS-DTL-23053/5 • MSFC-276B • AMS 3636B • Operating Temperature: -55°C ~ 135°C • Shrinkage Ratio: To 50% of supplied diameter at 90°C • Electrical Properties: Dielectric Strength: 1300 V/mil (512 kV/cm) Volume Resistivity: 10^{15} Ω-cm • Physical Properties: Tensile Strength: 2500 PSI, nominal (176 kg/cm²) Ultimate Elongation: 400% nominal

Shrink Tubing
Digi-Key® Assortment Kit
Contains the following:
W181-5-ND W184-5-ND
W182-5-ND W185-5-ND
W183-5-ND W186-5-ND
STA-KIT-ND..........$10.95

Minimum Supp. I.D. Inches (mm)	Maximum Recov. I.D. Inches (mm)	Nom. Recov. Wall Thick. Inches (mm)	Digi-Key Part No.	(NOTE: “X” in Digi-Key Part No. Represents No. of Feet) Price Per Length 5'	25'	50'	100'
.06 (1.60)	.03 (.78)	.017 (.43)	W181-X-ND	2.27	10.12	18.12	32.62
.09 (2.36)	.05 (1.17)	.020 (.50)	W182-X-ND	2.39	10.67	19.11	—
.13 (3.18)	.06 (1.58)	.020 (.50)	W183-X-ND	2.55	11.39	20.40	36.71
.19 (4.75)	.09 (2.36)	.020 (.50)	W184-X-ND	3.03	13.55	24.26	43.68
.25 (6.35)	.13 (3.18)	.025 (.63)	W185-X-ND	3.98	17.78	31.85	57.33
.38 (9.53)	.19 (4.75)	.025 (.63)	W186-X-ND	4.19	18.72	33.53	60.35
.50 (12.7)	.25 (6.35)	.025 (.63)	W187-X-ND	4.78	21.34	38.21	68.78
.75 (19.1)	.38 (9.53)	.030 (.76)	W188-X-ND	6.45	28.79	51.56	92.83
1.0 (25.4)	.50 (12.70)	.035 (.88)	W189-X-ND†	9.89	44.19	79.16	131.93
3.0 (76.2)	1.5 (38.10)	.050 (1.27)	W192-X-ND†	43.37	195.17	360.53	—
4.0 (101.6)	2.0 (50.80)	.055 (1.40)	W193-X-ND†	51.49	231.71	549.53	—

NOTE: Longer lengths available, call Digi-Key † Available only in listed lengths

Irradiated Polyolefin Heat Shrink

DAFLEX SH277 shrinkable irradiated polyolefin tubing is flame retardant and withstands up to 300°C (572°F) for short durations and can be hot stamped. **Specifications**: • Shrink Ratio: 4:1 • Longitudinal Shrinkage: 10% maximum • Shrink Temperature: 120°C (250°F) • Continuous Operation Temperature: -55°C ~ 135°C • Meets or exceeds MIL-I-23053/5 Class 1 and 3

Description	Minimum Supplied I.D. Inch (mm)	Maximum Recovery I.D. Inch (mm)	Nominal Recovered Wall Thick. Inch (mm)	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
1” x 4' Black	1.0 (25.4)	.26 (6.5)	.060 (1.5)	W203-ND	68.52	91.36	205.56	411.12	742.30
2” x 4' Black	2.0 (50.8)	.50 (12.7)	.060 (1.5)	W204-ND	93.72	124.96	281.16	562.32	1015.30

Polyolefin Heat Shrink

DAFLEX SM278 is a flexible, large ratio, heat shrinkable tubing with a meltable adhesive liner. As the outer wall shrinks, the inner adhesive liner melts and flows. When cooled, it offers protection for a variety of electrical applications as well as “sealed-in” protection from chemicals and oils. **Specifications**: • Shrink Ratio: 4:1 • Longitudinal Shrinkage: 10% maximum • Shrink Temperature: 120°C (250°F) • Continuous Operation Temperature: -55°C ~ 135°C • Meets or exceeds MIL-I-23053/4 Class 3 • UL VW-1, CSA OFT (outer wall only) • Dual Wall

Description	Minimum Supplied I.D. Inch (mm)	Maximum Recovery I.D. Inch (mm)	Nominal Recovered Wall Thick. Inch (mm)	Digi-Key Part No.	(NOTE: “X” in Digi-Key Part No. Represents No. of Feet) Price Per Length 5'	25'	50'	100'	200'
3/16” Black	.16 (4)	.04 (1)	.035 (.9)	W207-X-ND	9.21	39.36	67.00	113.90	214.40
5/16” Black	.315 (8)	.079 (2)	.035 (.9)	W208-X-ND	15.54	66.39	113.00	192.10	361.60

Description	Minimum Supplied I.D. Inch (mm)	Maximum Recovery I.D. Inch (mm)	Nominal Recovered Wall Thick. Inch (mm)	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
1/2” Black	.47 (12)	.12 (3)	.051 (1.3)	W206-ND	11.76	22.34	52.92	119.95	232.07
3/4” Black	.63 (16)	.16 (4)	.063 (1.6)	W209-ND	14.00	26.60	63.00	142.80	276.34
1” Black	.94 (24)	.24 (6)	.083 (2.1)	W205-ND	22.48	42.71	101.16	229.30	443.72
1 1/4” Black	1.26 (32)	.31 (8)	.091 (2.3)	W210-ND	27.92	53.05	125.64	284.78	551.04

Butyl Rubber Shrink Tape

DAFLEX ST250 cold shrinking Stretch-N-Seal tape requires no heat to provide a secure covering where the size and/or shape of an object does not permit the use of shrinkable tubing. Simply remove 2” to 3” of tape from the roll, remove the liner, stretch tape to 50% of the supplied width and wrap it spirally around the object, with 50% overlap. In minutes the tape will react with itself to form a mass which will provide protection from moisture, most chemicals, over 1KV per mil. DAFLEX ST250 can be removed easily without leaving any residue since the tape does not use a mastic or adhesive liner. Shelf life is over 5 years. It is helpful for covering, sealing, splicing, holding bundles, joining and repair applications. **Specifications:** • Operating Temperature: -40°C ~ 130°C • UL Approved for 100°C

Description	Nominal Width Inches (mm)	Nominal Thickness Inches (mm)	Roll Length Feet	Digi-Key Part No.	Price Each 1	5	10
Black	1.0 (25.4)	.0195 (0.50)	16	W211-ND	14.90	13.41	12.50
Black	1.0 (25.4)	.0195 (0.50)	8	W213-ND	8.50	7.65	7.04
Black	1.5 (38.1)	.0195 (0.50)	8	W215-ND	10.00	9.00	8.50
Black	1.5 (38.1)	.0195 (0.50)	16	W216-ND	17.00	15.30	14.45
Black	2.0 (50.8)	.0195 (0.50)	16	W217-ND	22.76	20.49	19.35

Qualtek ELECTRONICS CORP.

Heat Shrink Tubing

Dual Wall, Adhesive-Lined Flexible Polyolefin Tubing

Q5-2X and Q5-3X Series

Features: • Designed to provide both insulation and sealing for protection against water and moisture of auto wires, shipping cables, metal tubes and bundled wires.

Specifications: • **Operating Temperature:** -45°C ~ 125°C • **Full Recovery Temperature:** 125°C • **Approvals:** UL 224: 125°C, 600V, File No. E236137 • **Shrink Ratio:** Q5-2X Series: 2:1; Q5-3X Series: 3:1 • **Color:** Black

Tubing Dia. ‡ Inches	As Supplied Minimum Inside Diameter mm	After Recovered - mm			Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length		
		Maximum Inside Diameter	Nominal Wall Thickness	Nominal Adhesive Thickness		4' (1 pc.)	8' (2 pc.)	20' (5 pc.)
Q5-2X Series								
1/8	3.2	1.60	0.70	0.20	Q52X018B-ND	1.27	2.20	4.86
3/16	4.8	2.40	0.70	0.20	Q52X316B-ND	1.52	2.64	5.84
1/4	6.4	3.20	0.75	0.20	Q52X014B-ND	1.86	3.23	7.13
3/8	9.5	4.80	0.75	0.20	Q52X038B-ND	2.54	4.40	9.73
1/2	12.7	6.40	0.75	0.20	Q52X012B-ND	3.47	6.01	13.29
3/4	19.1	9.50	0.90	0.20	Q52X034B-ND	5.67	9.83	21.74
1	25.4	12.70	1.10	0.20	Q52X100B-ND	8.38	14.52	32.11
1 1/2	38.1	19.00	1.10	0.20	Q52X112B-ND	13.96	24.19	53.50
Q5-3X Series								
1/8	3.0	0.60	1.00±0.10	0.50	Q53X018B-ND	1.27	2.20	4.86
3/16	4.8	1.50	1.10±0.10	0.50	Q53X316B-ND	1.52	2.64	5.84
1/4	6.0	2.00	1.20±0.10	0.50	Q53X014B-ND	1.86	3.23	7.13
3/8	9.0	3.00	1.30±0.10	0.60	Q53X038B-ND	2.54	4.40	9.73
1/2	12.0	4.00	1.70±0.15	0.80	Q53X012B-ND	3.89	6.75	14.93
3/4	19.0	6.00	2.00±0.20	0.80	Q53X034B-ND	6.17	10.70	23.67
1	24.0	8.00	2.20±0.20	1.05	Q53X100B-ND	9.73	16.86	37.28
1 1/4	30.0	10.00	2.40±0.20	1.05	Q53X114B-ND	11.68	20.24	44.76
1 1/2	40.0	13.00	2.50±0.20	1.05	Q53X112B-ND	13.63	24.12	52.44
2	50.0	19.00	2.50±0.20	1.05	Q53X200B-ND	19.57	34.63	75.28

‡ Size before shrinking

Polyolefin Heat Shrink Tubing

Q2-F and Q2-F3X Series

Features: • Environmentally friendly flame retardant shrink tubing • Good flexibility and superior mechanical strength in such fields as electronics, communication and automobile

Specifications: • **Operating Temperature:** -55° ~ 135°C • **Full Recovery Temperature:** 100°C • **Shrink Ratio:** Q2-F: 2:1; Q2-F3X: 3:1 • **Approvals:** UL 224: 125°C, 600V, VW-1, File No. E236137 • **Material:** No PBB's, PBBO's, PBBE's • **Cadmium Content:** <5ppm • **Lead Content:** <10ppm • **Standard Color:** Black

Tubing Dia. ‡ Inches	As Supplied Minimum Inside Diameter mm	After Recovered		Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length		Spool Size Feet	Price Per Spool
		Maximum Inside Diameter mm	Nominal Wall Thickness mm		4' (1 pc.)	20' (5 pc.)		
Q2-F Series								
3/64	1.6	0.60	0.40±0.08	Q2F364B-ND	.36	1.36	—	—
				Q2F364B-100-ND	—	—	100	4.51
				Q2F364B-1000-ND	—	—	1000	42.56
1/16	2.0	0.80	0.43±0.08	Q2F116B-ND	.37	1.43	—	—
				Q2F116B-100-ND	—	—	100	4.74
				Q2F116B-1000-ND	—	—	1000	44.69
3/32	3.1	1.20	0.51±0.08	Q2F332B-ND	.41	1.57	—	—
				Q2F332B-100-ND	—	—	100	5.19
				Q2F332B-500-ND	—	—	500	24.47
1/8	3.7	1.60	0.51±0.08	Q2F018B-ND	.44	1.70	—	—
				Q2F018B-100-ND	—	—	100	5.64
				Q2F018B-500-ND	—	—	500	26.60
3/16	5.2	2.40	0.51±0.08	Q2F316B-ND	.63	2.42	—	—
				Q2F316B-100-ND	—	—	100	8.01
				Q2F316B-500-ND	—	—	500	37.77
1/4	6.8	3.20	0.64±0.08	Q2F014B-ND	.79	3.03	—	—
				Q2F014B-100-ND	—	—	100	10.04
				Q2F014B-500-ND	—	—	500	47.35
5/16	8.8	4.00	0.64±0.08	Q2F516B-ND	.91	3.51	—	—
				Q2F516B-100-ND	—	—	100	11.62
				Q2F516B-250-ND	—	—	250	27.40
3/8	10.7	4.80	0.64±0.08	Q2F038B-ND	1.07	4.12	—	—
				Q2F038B-100-ND	—	—	100	13.65
				Q2F038B-250-ND	—	—	250	32.19
1/2	13.7	6.40	0.64±0.08	Q2F012B-ND	1.33	5.11	—	—
				Q2F012B-100-ND	—	—	100	16.92
				Q2F012B-200-ND	—	—	200	31.92
5/8	16.7	8.00	0.76±0.08	Q2F058B-ND	2.07	7.93	—	—
				Q2F058B-50-ND	—	—	50	13.14
				Q2F058B-200-ND	—	—	200	49.58
3/4	20.5	9.50	0.76±0.08	Q2F034B-ND	2.44	9.34	—	—
				Q2F034B-50-ND	—	—	50	15.45
				Q2F034B-200-ND	—	—	200	58.31
1	26.5	12.70	0.89±0.12	Q2F100B-ND	3.46	13.24	—	—
				Q2F100B-50-ND	—	—	50	21.94
				Q2F100B-200-ND	—	—	200	82.78
Q2-F3X Series								
1/16	1.6	0.5	0.45	Q2F3X116B-ND	.39	1.48	—	—
				Q2F3X116B-100-ND	—	—	100	4.62
				Q2F3X116B-500-ND	—	—	500	24.47
1/8	3.2	1.0	0.55	Q2F3X018B-ND	.48	1.83	—	—
				Q2F3X018B-100-ND	—	—	100	6.26
				Q2F3X018B-500-ND	—	—	500	30.32
3/16	4.8	1.5	0.60	Q2F3X316B-ND	1.37	5.27	—	—
				Q2F3X316B-100-ND	—	—	100	8.99
				Q2F3X316B-250-ND	—	—	250	20.69
1/4	6.4	2.0	0.65	Q2F3X014B-ND	.94	3.60	—	—
				Q2F3X014B-100-ND	—	—	100	12.27
				Q2F3X014B-250-ND	—	—	250	29.79
3/8	9.5	3.0	0.75	Q2F3X038B-ND	1.28	4.91	—	—
				Q2F3X038B-100-ND	—	—	100	16.77
				Q2F3X038B-250-ND	—	—	250	40.70
1/2	12.7	4.0	0.80	Q2F3X012B-ND	1.60	6.14	—	—
				Q2F3X012B-50-ND	—	—	50	10.46
				Q2F3X012B-150-ND	—	—	150	30.47
3/4	19.1	6.0	0.90	Q2F3X034B-ND	2.99	11.47	—	—
				Q2F3X034B-50-ND	—	—	50	19.55
				Q2F3X034B-150-ND	—	—	150	56.95
1	25.4	8.0	1.20	Q2F3X100B-ND	4.21	16.15	—	—
				Q2F3X100B-50-ND	—	—	50	27.55
				Q2F3X100B-150-ND	—	—	150	80.24
1 1/2	39.0	13.0	1.25	Q2F3X112B-ND	7.63	29.23	—	—
				Q2F3X112B-50-ND	—	—	50	48.38
				Q2F3X112B-150-ND	—	—	150	145.17

‡ Size before shrinking

Heat Shrink Tubing Kits

Q2-F and Q2-Z Series

Q2Z1-KIT-ND - Heat Shrink Kit 1 Includes: 180 pieces, 6" Lengths, Black
3/64" (40 pcs.), 1/16" (36 pcs.), 3/32" (32 pcs.), 1/8" (28 pcs.), 3/16" (24 pcs.), 1/4" (20 pcs.) **$20.18**

Q2Z2-KIT-ND - Heat Shrink Kit 2 Includes: 82 pieces, 6" Lengths, Black
5/16" (18 pcs.), 3/8" (16 pcs.), 1/2" (14 pcs.), 5/8" (14 pcs.), 3/4" (12 pcs.), 1" (8 pcs.) **$27.50**

Q2F1-KIT-ND - Heat Shrink Kit 1 Includes: 180 pieces, 6" Lengths, Black
3/64" (40 pcs.), 1/16" (36 pcs.), 3/32" (32 pcs.), 1/8" (28 pcs.), 3/16" (24 pcs.), 1/4" (20 pcs.) **$22.08**

Q2F8-KIT-ND - Heat Shrink Kit 2 Includes: 82 pieces, 6" Lengths, Black
5/16" (18 pcs.), 3/8" (16 pcs.), 1/2" (14 pcs.), 5/8" (14 pcs.), 3/4" (12 pcs.), 1" (8 pcs.) **$30.26**

Q2F15-KIT-ND - Heat Shrink Kit 4 Includes: 141 pieces, 6" Lengths, Assorted Colors
1/16" (39 pcs.), 1/8" (31 pcs.), 1/4" (23 pcs.), 3/8" (19 pcs.), 1/2" (19 pcs.), 1" (10 pcs.) **$34.54**

Refill Bags

Description	Digi-Key Part No.	Price Each
Refill Bags for Q2F Kit 1		
3/64", 40 pieces (consists of 6" pieces), Black	Q2F2-KIT-ND	1.30
1/16", 36 pieces (consists of 6" pieces), Black	Q2F3-KIT-ND	1.23
3/32", 32 pieces (consists of 6" pieces), Black	Q2F4-KIT-ND	1.19
1/8", 28 pieces (consists of 6" pieces), Black	Q2F5-KIT-ND	1.13
3/16", 24 pieces (consists of 6" pieces), Black	Q2F6-KIT-ND	1.38
1/4", 20 pieces (consists of 6" pieces), Black	Q2F7-KIT-ND	1.44
Refill Bags for Q2F Kit 2		
5/16", 18 pieces (consists of 6" pieces), Black	Q2F9-KIT-ND	1.50
3/8", 16 pieces (consists of 6" pieces), Black	Q2F10-KIT-ND	1.57
1/2", 14 pieces (consists of 6" pieces), Black	Q2F11-KIT-ND	1.70
5/8", 14 pieces (consists of 6" pieces), Black	Q2F12-KIT-ND	2.64
3/4", 12 pieces (consists of 6" pieces), Black	Q2F13-KIT-ND	2.67
1", 8 pieces (consists of 6" pieces), Black	Q2F14-KIT-ND	2.52
Refill Bags for Q2F Kit 4		
1/16, 39 pieces (consists of 6" pieces), Assorted Colors	Q2F16-KIT-ND	1.33
1/8", 31 pieces (consists of 6" pieces), Assorted Colors	Q2F17-KIT-ND	1.23
1/4", 23 pieces (consists of 6" pieces), Assorted Colors	Q2F18-KIT-ND	1.57
3/8", 19 pieces (consists of 6" pieces), Assorted Colors	Q2F19-KIT-ND	1.71
1/2", 19 pieces (consists of 6" pieces), Assorted Colors	Q2F20-KIT-ND	1.85
1", 10 pieces (consists of 6" pieces), Assorted Colors	Q2F21-KIT-ND	2.74

Modified Thin Wall Flexible Kynar® (PVDF) Heat Shrink Tubing - Q-150K Series

Features: • Excellent flame retardant heat shrinkable polyvinylidene fluoride tubing • Outstanding abrasion and cut-through resistance • Superior chemical and solvent resistant properties • Available in clear and black

Specifications: • **Operating Temperature:** -55°C ~ 150°C • **Full Recovery Temperature:** 175°C • **Shrink Ratio:** 2:1 • **Approvals:** UL 224: 150°C, 600V, File No. E245010

Tubing Dia. ‡ Inches	As Supplied Minimum Inside Diameter mm	After Recovered		Color	Digi-Key Part No.	Sold in 4' Lengths Only Price Per Length		
		Maximum Inside Diameter mm	Wall Thickness mm			4' (1 pc.)	8' (2 pc.)	20' (5 pc.)
3/64	1.2	0.6 0	0.25±0.05	Clear	QKY364C-ND	1.48	2.56	5.67
				Black	QKY364B-ND	1.48	2.56	5.67
1/16	1.6	0.80	0.25±0.05	Clear	QKY116C-ND	1.65	2.86	6.33
				Black	QKY116B-ND	1.65	2.86	6.33
3/32	2.4	1.20	0.27±0.04	Clear	QKY332C-ND	2.09	3.62	8.00
				Black	QKY332B-ND	2.09	3.62	8.00
1/8	3.2	1.60	0.27±0.04	Clear	QKY018C-ND	2.52	4.37	9.67
				Black	QKY018B-ND	2.52	4.37	9.67
3/16	4.8	2.40	0.27±0.04	Clear	QKY316C-ND	3.57	6.18	13.67
				Black	QKY316B-ND	3.57	6.18	13.67
1/4	6.4	3.20	0.33±0.05	Clear	QKY014C-ND	4.35	7.54	16.67
				Black	QKY014B-ND	4.35	7.54	16.67
3/8	9.5	4.80	0.33±0.05	Clear	QKY038C-ND	6.61	11.46	25.34
				Black	QKY038B-ND	6.61	11.46	25.34
1/2	12.7	6.40	0.33±0.05	Clear	QKY012C-ND	8.87	15.38	34.02
				Black	QKY012B-ND	8.87	15.38	34.02
3/4	19.1	9.50	0.43±0.07	Clear	QKY034C-ND	13.42	23.75	51.62
				Black	QKY034B-ND	11.87	20.65	46.46
1	25.4	12.70	0.48±0.07	Clear	QKY100C-ND	17.20	29.92	67.32
				Black	QKY100B-ND	17.20	29.92	67.32

‡ Size before shrinking

Panasonic® Micro Speakers

Features: • Thin and lightweight design • High efficiency and high fidelity sound • High reliability **Recommended Applications:** • Compact AV equipment • Electronic office equipment • Information and communication equipment

Fig. 1

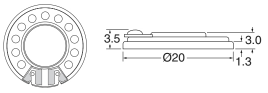

Fig. 2

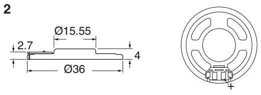

Fig.	Outer Dim. (mm)	Input (W) Rated	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Level	Net Wgt. (g)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	20	0.2	7	Full Range	77	2.5	P10173-ND◆	4.29	3.82	3.17	EAS-2P113D
2	36	0.5	8	Full Range	84	8	P10175-ND	5.38	4.79	3.97	EAS-3P127A

◆ *RoHS Compliant*

Hi-Fi Mini Speaker

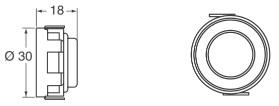

Features:
- Compact • High Power

Recommended Applications:
- Notebook type PC • DVD player • Game machine • PDA • LCD monitor

Outer Dim. (mm)	Input (W) Rated (Max)	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Level	Net Wgt. (g)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
30	3	8	F0 ~ 20 k	76	21	P12055-ND	5.45	4.84	4.02	EAS-3P133B6

Small Size General Purpose Speakers

Features: • Wide frequency range • Apply to wide variety of needs • Wide range of product selection
Recommended Applications: • CD-radio-cassette recorders • Information and communication equipment

Fig. 1

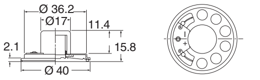

Fig. 2

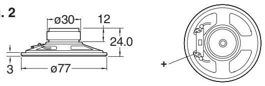

Fig.	Outer Dim. (mm)	Input (W) Rated	Imped-ance (Ω)	Frequency Range (Hz)	Sound Pressure Level	Net Wgt. (g)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	40	0.10	8	530 ~ 3000	92	25	P9605-ND	5.61	5.05	4.49	EAS-4P15SA
2	80	0.63	8	185 ~ 4000	93	68	P9607-ND	4.44	4.00	3.56	EAS-8P29SG

PC Mount Speakers —
Surface Mount and Thru-hole

Dim. in mm

Fig. 1

Fig. 2

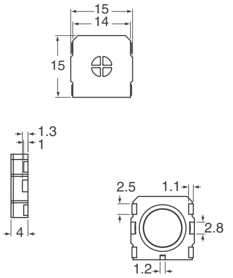

Fig. 3

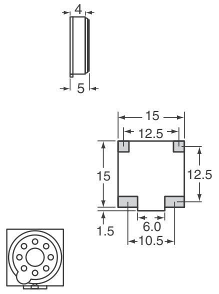

Fig.	Dimensions mm L	T	Imped-ance (Ω)	Frequency Range (Hz)	Input Power (W) Nom.	Max.	SPL (dB)	Digi-Key Part No.	Price Each 1	10	100	Projects Unlimited Part No.
1	15	7.5	8	1,700 ~ 20K	0.3	0.5	87	668-1132-ND	3.95	3.16	2.61	AST-01508MR-R
	15	7.5	32	2,100 ~ 20K	0.3	0.5	87	668-1133-ND	3.95	3.16	2.61	AST-01532MR-R
	17	8.0	8	1,500 ~ 20K	0.2	0.5	87	668-1134-ND	3.95	3.16	2.61	AST-01708MR-R
	23	8.5	8	600 ~ 20K	0.08	0.15	75	668-1135-ND	2.90	2.32	1.92	AST-02308MR-R
	29.9	12.5	8	500 ~ 20K	0.15	0.2	72	668-1136-ND	3.20	2.56	2.12	AST-03008MR-R
	30	12	32	1,700 ~ 20K	0.1	0.2	81	668-1137-ND	3.20	2.56	2.12	AST-03032MR-R
	29.7	12.7	100	1,200 ~ 10K	0.15	0.3	80	668-1138-ND	3.20	2.56	2.12	AST-030C0MR-R
	31.9	15.1	8	500 ~ 20K	0.1	0.2	82	668-1139-ND	2.63	2.10	1.74	AST-03208MR-R
	17	8.0	32	500 ~ 20K	0.2	0.5	90	668-1140-ND	3.95	3.16	2.61	AST-1732MR-R
2	—	—	8	500 ~ 10K	0.5	0.8	87	668-1142-1-ND†	10.40	8.17	5.94	SMS-1508MS-R
	—	—	8	500 ~ 10K	0.5	0.8	87	668-1142-2-ND‡	2584.20/600			SMS-1508MS-R
3	—	—	8	850 ~ 20K	0.3	0.5	87	668-1141-1-ND†	10.40	8.17	5.94	SMS-1508-2-R
	—	—	8	850 ~ 20K	0.3	0.5	87	668-1141-2-ND‡	2584.20/600			SMS-1508-2-R

† Cut Tape ‡ Tape and Reel

Water Resistant Acoustic Speakers

Dim. in mm

Fig. 1

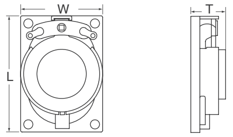

Fig. 2

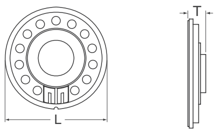

Fig. 3

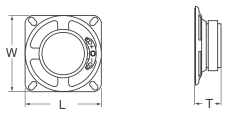

Fig. 4

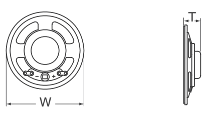

Fig. 5

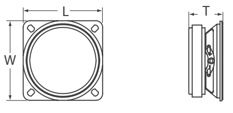

Fig. 6

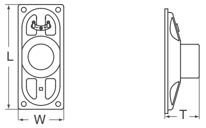

Fig. 7

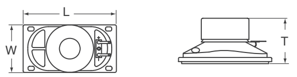

Fig. 8

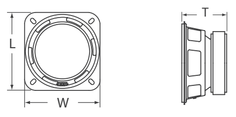

Fig.	Dimensions mm L	W	T	Impedance (Ω)	Frequency Range (Hz)	Input Power (W) Nom.	Max.	SPL (dB)	Digi-Key Part No.	Price Each 1	10	100	Projects Unlimited Part No.
1	27	20.5	6.0	8	250 ~ 20K	1	3	80	668-1112-ND	4.55	3.64	3.01	AS02708CO-WR-R
	40	28.4	13	4	200 ~ 20K	2	3	87	668-1113-ND	5.58	4.46	3.68	AS04004PO-WR-R
	40	28.3	11.5	8	450 ~ 20K	1	2	84	668-1114-ND	5.58	4.46	3.68	AS04008PO-2-WR-R
	40	28.3	11.5	8	380 ~ 20K	2	4	84	668-1116-ND	5.58	4.46	3.68	AS04008PS-4W-WR-R
2	40	—	6.6	8	700 ~ 4,750	0.5	0.8	92	668-1115-ND	3.85	3.08	2.55	AS04008PR-WR-R
3	77	77	25.5	8	270 ~ 8K	4	8	90	668-1126-ND	4.93	3.94	3.26	AS07708PS-2-WR-R
	77	77	44	8	120 ~ 17K	10	15	88	668-1127-ND	4.93	3.94	3.26	AS07708PS-3-WR-R
4	—	50	10.6	4	800 ~ 5K	1.5	3	85	668-1117-ND	4.33	3.46	2.86	AS05004PR-2-WR-R
	—	50	12	8	550 ~ 5K	1	1.5	84	668-1119-ND	4.33	3.46	2.86	AS05008PR-WR-R
	—	57	13	8	350 ~ 8K	1	1.5	88	668-1120-ND	5.25	4.20	3.47	AS05708PR-2-WR-R
5	66.3	66.3	29	8	230 ~ 12K	4	5	95	668-1121-ND	7.23	5.78	4.77	AS06608PS-WR-R
	70	70	27	8	300 ~ 20K	2	4	86	668-1123-ND	4.93	3.94	3.26	AS07008PS-WR-R
6	70	30.5	23	4	100 ~ 20K	2	5	86	668-1122-ND	5.03	4.02	3.32	AS07004PO-WR-R
	71	41	25	4	100 ~ 20K	3	5	86	668-1124-ND	5.03	4.02	3.32	AS07104PO-WR-R
	71	41	25	8	100 ~ 20K	3	5	86	668-1125-ND	5.03	4.02	3.32	AS07108PO-WR-R
	70	30.5	23	8	300 ~ 20K	2	5	86	668-1191-ND	4.81	4.38	3.50	AS07008PO-2-R
7	90	50	40.5	8	240 ~ 18K	5	8	86	668-1128-ND	6.33	5.06	4.18	AS09008PO-2-WR-R
	90	50	48	8	180 ~ 15K	5	7	88	668-1129-ND	6.33	5.06	4.18	AS09008PO-WR-R
8	105	105	58	4	90 ~ 10K	20	30	86	668-1130-ND	7.85	6.28	5.19	AS10004PS-WR-R
	103	103	45	8	170 ~ 15K	15	20	93	668-1131-ND	7.85	6.28	5.19	AS10308PS-WR-R

PC Mount Speakers

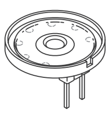

These PC mount speakers offer the advantages of a versatile low profile speaker with the convenience of a conventional PC mount package. They are well suited for a wide range of portable products and information equipment applications.

Diameter Cone (mm)	Depth (mm)	Impedance (Ω)	Input (W)		S.P.L. (dB) @ 50cm	Digi-Key Part No.	Price Each				CUI Inc. Part No.
			Normal	Maximum			1	10	50	100	
20	4.2	8	0.1	0.2	116	102-1542-ND†	2.98	2.38	2.09	1.99	CLS0201MP
23	5	8	0.1	0.2	72	102-1543-ND	3.05	2.44	2.14	2.04	CLS0231MP-1
25	5.6	8	0.1	0.2	70	102-1544-ND	2.34	2.13	1.92	1.70	CLF0251MP
28	4.2	8	0.2	0.3	82	102-1545-ND	3.05	2.44	2.14	2.04	CLS0281MP
30	3.9	8	0.2	0.3	78	102-1546-ND	3.33	2.66	2.33	2.22	CLS0301MP-1
38	9.4	8	0.25	0.4	93	102-1549-ND	2.85	2.28	2.00	1.90	CLF0381MP-1
40	9.7	8	0.2	0.5	80	102-1547-ND	4.75	3.80	3.33	3.17	CLS0401MP
50	9	8	0.2	0.5	80	102-1548-ND	4.75	3.80	3.33	3.17	CLS0501MP

† S.P.L (dB) @ 1cm

Low Profile Speakers with 6” Wire Leads

Fig. 1

Fig. 2

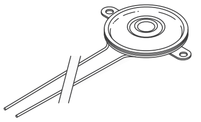

Fig. 3

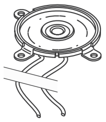

These low profile speakers deliver big sound in small spaces. Delivering high reliability and a full range of sound, these items are ideal for many applications such as portable communications equipment, compact A/V equipment and information equipment.

Fig.	Diameter Cone (mm)	Depth (mm)	Impedance (Ω)	Input (W)		S.P.L. (dB)	Digi-Key Part No.	Price Each				CUI Inc. Part No.
				Normal	Maximum			1	10	50	100	
1	20	3.8	8	0.5	1	82	102-1552-ND	3.10	2.48	2.17	2.07	CLS0201MA-L152
	23	5	8	0.5	1	89	102-1553-ND	3.20	2.56	2.24	2.14	CLS0231MA-1-L152
	23	5.7	8	1	1.5	89	102-1561-ND	3.90	3.12	2.73	2.60	CLS0231-L152
	27	5.8	8	0.1	0.2	89	102-1554-ND	2.70	2.16	1.89	1.80	CLS0271M-L152
	28	5	8	0.5	1	85	102-1555-ND	3.60	2.88	2.52	2.40	CLS0282MA-L152
	28	5.8	8	1	3	82	102-1562-ND	3.80	3.04	2.66	2.54	CLS0281-L152
	30	4	8	0.2	0.4	89	102-1556-ND	3.45	2.76	2.42	2.30	CLS0301MA-L152
	30	5.9	8	1	2	86	102-1563-ND	4.15	3.32	2.91	2.77	CLS0301-L152
	36	5	8	0.5	1	89	102-1550-ND	3.60	2.88	2.52	2.40	CLS0362MA-1-L152
	36	6.2	8	2	3	88	102-1564-ND	4.70	3.76	3.29	3.14	CLS0361-L152
	38	9.7	8	0.2	0.4	80	102-1537-ND	4.98	3.98	3.49	3.32	CLS0381M-L152
	40	5.3	8	0.5	1	90	102-1551-ND	4.00	3.20	2.80	2.67	CLS0402MA-1-L152
	40	9.7	8	0.2	0.5	80	102-1538-ND	4.98	3.98	3.49	3.32	CLS0401M-L152
	45	9	8	0.2	0.5	82	102-1539-ND	4.98	3.98	3.49	3.32	CLS0451M-L152
	50	9	8	0.2	0.5	80	102-1540-ND	5.13	4.10	3.59	3.42	CLS0501M-L152
	57	11.8	8	0.2	0.5	89	102-1541-ND	5.13	4.10	3.59	3.42	CLS0571M-L152
2	26	4.6	8	0.5	1	88	102-1558-ND	3.70	2.96	2.59	2.47	CLS0261MAE-L152
	28	5.2	8	2	4	87	102-1559-ND	3.58	2.86	2.51	2.39	CLS0281MAE-L152
	40	5	4	1	2	91	102-1560-ND	4.00	3.20	2.80	2.67	CLS0401MAE-L152
3	23	3.6	32	0.2	0.4	84	102-1557-ND	3.43	2.74	2.40	2.29	CLS0231MA3E-L152

Ferrite Magnet Speakers

These low cost ferrite speakers are ideal for general applications such as information and communications equipment, portable audio equipment, and industrial use. Mylar cone versions offer additional protection in moist environments or conditions requiring enhanced weather resistance.

Fig. 1 — Ferrite Magnet - Round Frame Type

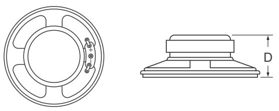

Fig. 2 — Ferrite Magnet - Square Frame Type

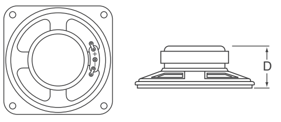

Fig. 3

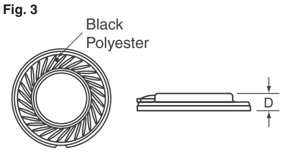

Fig.	Diameter Cone (mm)	Depth D (mm)	Impedance (Ω)	Frequency Range (Hz)	Input (W)		S.P.L. (dB)	Digi-Key Part No.	Price Each				CUI Inc. Part No.
					Norm.	Max.			1	10	50	100	
								Paper Cone Type					
1	50	17.5	8	450 ~ 5.9K	0.25	0.5	87	GF0501-ND◆	3.35	2.68	2.35	2.24	GF0501
	57	18.5	8	380 ~ 8.1K	0.25	0.5	86	GF0571-ND◆	3.35	2.68	2.35	2.24	GF0571
	57	27.5	8	450 ~ 20K	3	5	92	GF0573-ND◆	4.60	3.68	3.22	3.07	GF0573
	66	20	8	300 ~ 8K	0.3	0.5	86	GF0661-ND◆	3.85	3.08	2.70	2.57	GF0661
	77	24	8	180 ~ 10K	1	2	92	GF0771-ND◆	3.95	3.16	2.77	2.64	GF0771
	92	28.5	8	300 ~ 13K	2	3	93	GF0922-ND	4.45	3.56	3.12	2.97	GF0922
2	50	18	8	480 ~ 7.2K	0.25	0.5	90	GF0506-ND◆	3.40	2.72	2.38	2.27	GF0506
	57	18.5	8	380 ~ 8.1K	0.25	0.5	86	GF0576-ND	3.40	2.72	2.38	2.27	GF0576
	66	29	8	300 ~ 20K	3	5	90	GF0668-ND◆	5.03	4.02	3.52	3.35	GF0668
	77	31	8	250 ~ 15K	3	5	95	GF0778-ND◆	5.05	4.04	3.54	3.37	GF0778B
	87	34	8	290 ~ 18K	3	5	99	GF0876-ND◆	5.53	4.42	3.87	3.69	GF0876
	92	28.5	8	300 ~ 5K	2	3	93	GF0927-ND◆	5.03	4.02	3.52	3.35	GF0927
	102	36.5	8	145 ~ 17K	6	10	93	GF1004-ND◆	6.93	5.54	4.85	4.62	GF1004
	102	50.5	8	100 ~ 10K	20	40	90	GF1004H-ND◆	10.80	8.64	7.56	7.20	GF1004H
								Mylar Cone Type (Weather Resistant)					
1	40	9.6	8	136 ~ 2.8K	0.1	0.2	110	GF0401M-ND◆	3.28	2.62	2.30	2.19	GF0401M
	50	17.5	8	440 ~ 5.8K	0.25	0.5	86	GF0501M-ND◆	4.03	3.22	2.82	2.69	GF0501M
	57	18.5	8	480 ~ 14K	0.25	0.5	86	GF0571M-ND◆	4.03	3.22	2.82	2.69	GF0571M
	66	20	8	430 ~ 10K	0.5	1	88	GF0661M-ND◆	4.30	3.44	3.01	2.87	GF0661M
	77	24	8	280 ~ 11K	1	2	90	GF0771M-ND	4.50	3.60	3.15	3.00	GF0771M
2	66	19.5	8	330 ~ 10.1K	0.5	1	83	GF0666M-ND◆	4.35	3.48	3.05	2.90	GF0666M
	77	24	8	360 ~11K	1	2	91	GF0776M-ND◆	4.60	3.68	3.22	3.07	GF0776M
	102	36.2	8	250 ~ 13K	3	5	93	GF1003M-ND◆	6.18	4.94	4.33	4.12	GF1003M
	102	36.5	8	230 ~ 14K	6	10	93	GF1004M-ND◆	7.60	6.08	5.32	5.07	GF1004M
3	13	2	8	0 ~ 20K	0.2	0.4	80	CDMG13008L-02-ND◆	1.95	1.78	1.60	1.42	CDMG13008L-02
	15	2.8	8	0 ~ 20K	0.3	0.5	91	CDMG15008-03A-ND◆	1.87	1.70	1.53	1.36	CDMG15008-03A
	16	2.55	8	0 ~ 20K	0.3	0.5	82	CDMG16008-03-ND◆	1.84	1.68	1.51	1.34	CDMG16008-03

◆ ***RoHS Compliant***

Miniature Monitor Speakers

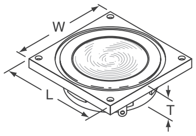

These miniature speakers deliver high output power and full range sound in a very small package. Additional magnetic shielding on the back also significantly reduces flux leakage. Ideal for small monitors and televisions, portable sound equipment, or anywhere else you need powerful sound in a small space.

Dimensions (mm)			Impedance (Ω)	Frequency Range (Hz)	Input Power (w)		S.P.L. (dB)	Digi-Key Part No.	Pricing				CUI Inc. Part No.
W	L	T			Norm.	Max.			1	10	50	100	
16	20	6.6	8	1050 ~ 20K	2	2.5	75	102-1298-ND	4.73	37.80	165.38	314.87	CMS0201KFL-1X
20	20	9.5	8	530 ~ 20K	2	4	80	102-1299-ND	5.15	41.20	180.25	343.20	CMS0201KLX
23	23	10.2	8	380 ~ 20K	2	4	81	102-1300-ND	5.18	41.40	181.13	344.86	CMS0231KLX
28	28	11.2	8	310 ~ 20K	2	4	82	102-1301-ND	5.35	42.80	187.25	356.52	CMS0281KLX
32	32	14.5	8	250 ~ 15K	2	4	86	102-1302-ND	6.28	50.20	219.63	418.17	CMS0321KLX
34	34	14.5	8	260 ~ 20K	2	4	84	102-1303-ND	6.38	51.00	223.13	424.83	CMS0341KLX
36	36	14.5	8	230 ~ 20K	2	4	82	102-1304-ND	6.53	52.20	228.38	434.83	CMS0361KLX
40.1	40.1	14.5	8	270 ~ 20K	4	6	88	102-1305-ND	8.13	65.00	284.38	541.45	CMS0401KL-1X
40.1	40.1	14.5	8	440 ~ 20K	5	8	88	102-1306-ND	8.35	66.80	292.25	556.44	CMS0401KL-3X

CUI INC

Notebook Speakers

Features: • Low profile rectangular design • Lightweight rugged resin frame • Wide frequency range • Low resonant frequency **Recommended Applications:** • Notebook Computers • Portable communication equipment • Multimedia equipment.

Fig. 1

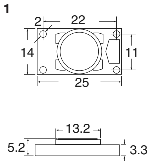

Fig. 2

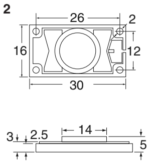

Fig. 3

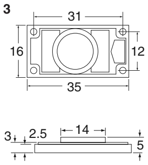

Fig. 4

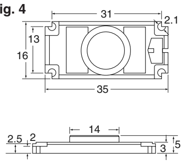

Fig. 5

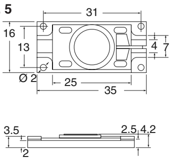

Fig. 6

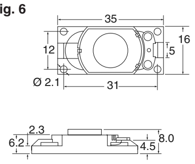

Fig. 7

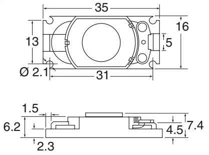

Fig. 8

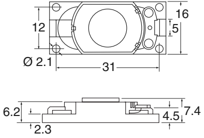

Fig. 9

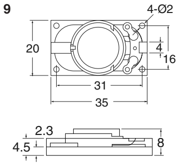

Fig. 10

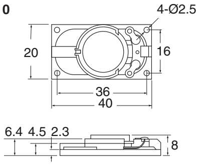

Fig. 11

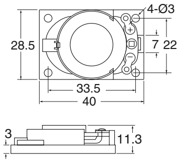

Fig.	Size (mm)	Depth (mm)	Frame Style	Resonant Freq. HZ ±20%	Frequency Range (HZ)	Impedance (Ω)	Power (W) Input Normal	Power (W) Input Maximum	Magnet Size (mm)	Digi-Key Part No.	Price Each 1	10	50	100	CUI Inc. Part No.
1	14 x 25	5.2	Plastic	600	600 ~ 20K	8	1.0	1.5	7.9 x 1.3	GC0251K-ND◆	4.15	3.32	2.91	2.77	GC0251K
2	16 x 30	5.0	Plastic	500	500 ~ 4K	8	0.5	1.0	7.9 x 1.3	GC0301K-ND◆	4.23	3.38	2.96	2.82	GC0301K
3	16 x 35	5.0	Plastic	650	650 ~ 20K	8	1.0	1.5	7.9 x 1.3	GC0351M-ND◆	3.90	3.12	2.73	2.60	GC0351M
4	16 x 35	5.0	Plastic	650	650 ~ 20K	8	1.0	1.5	7.9 x 1.3	GC0351M-3-ND◆	3.90	3.12	2.73	2.60	GC0351M-3
5	16 x 35	4.2	Plastic	650	650 ~ 20K	8	1.0	1.5	7.9 x 1.0	GC0351N-ND	3.90	3.12	2.73	2.60	GC0351N
6	16 x 35	8.0	Plastic	550	500 ~ 13K	8	1.0	2.0	8.0 x 2.0	GC0351P-ND◆	4.98	3.98	3.49	3.32	GC0351P
7	16 x 35	7.4	Plastic	630	630 ~ 13K	8	1.0	2.0	8.1 x 1.4	GC0351P-1-ND	4.98	3.98	3.49	3.32	GC0351P-1
8	16 x 35	7.4	Plastic	630	630 ~ 13K	8	1.0	2.0	8.1 x 1.4	GC0351P-3-ND◆	4.98	3.98	3.49	3.32	GC0351P-3
9	20 x 35	8.0	Plastic	550	550 ~ 11K	8	1.0	1.5	11.0 x 1.5	GC0351K-ND	4.68	3.74	3.28	3.12	GC0351K
10	20 x 40	8.0	Plastic	550	550 ~ 12K	8	1.0	1.5	11.0 x 1.5	GC0401S-ND◆	5.10	4.08	3.57	3.40	GC0401S
11	28.5 x 40	11.3	Plastic	390	390 ~ 20K	8	1.0	2.0	12.5 x 1.8	GC0401K-ND◆	5.10	4.08	3.57	3.40	GC0401K

◆ ***RoHS Compliant***

Panasonic®

Piezoelectric Ceramic Buzzer Units

Applications: • Smoke Detectors • Alarms • Detectors • Home Appliances • Radio Beepers • Electronic Games • Keyboard Signalers • Cameras • Telephone Ringers

Features: • Low power consumption • Long life and no noise due to non-contact • Thin thickness buzzer element • External drive type • Covering wide frequency range • No magnetic field is generated • High sound pressure level

Example Driving Circuit
(For Self Drive Type)

P9913
P9920
P9923

Q: ZTX451 or equivalent
D: 1N4148 or equivalent

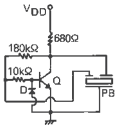

Fig. 1

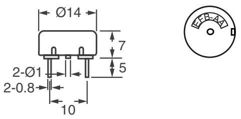

Fig. 2

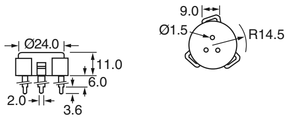

Fig. 3

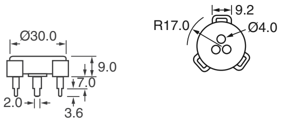

Fig. 4

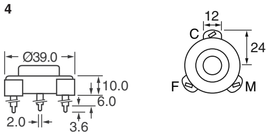

Fig.	Sound Pressure Level	Oscillating Frequency	Cap. (@1 kHz)	Input Voltage	Digi-Key Part No.	Pricing 1	10	100	500	1,000	5,000	Panasonic Part No.
1	74dB min. @ (15V p-p, 4kHz Sq. Wave)	—	8500pF	25V p-p	P9900-ND◆	7.23	61.19	478.38	1685.50	3179.00	2967.00/M	EFB-AA14D001
2	93dB min. @ 10VDC	3.5kHz	—	3 ~ 20VDC	P9913-ND◆†	11.57	97.90	765.40	2697.00	5086.00	4747.00/M	EFB-RM38C123
3	106dB min. @ 12VDC	3.7kHz	—	3 ~ 20VDC	P9920-ND◆†	9.62	81.40	636.40	2242.50	4229.00	3947.00/M	EFB-RL37C20
4	106dB min. @ 12VDC	3.2kHz	—	3 ~ 20VDC	P9923-ND†	15.44	130.63	1021.25	3598.50	6786.00	6333.00/M	EFB-BD32B21

◆ ***RoHS Compliant*** † Driving circuit required. ***NOTE:*** All buzzers and microphones are non-washable.

Ultrasonic Ceramic Sensor/Transducer

Ultrasonic Ceramic Sensor consisting of a disc/bimorph type piezoelectric ceramic vibrator that is used as a sensor for transmitting and receiving ultrasonics in the air. Since the ultrasonic sensor has a resonance type vibrator, it is high in sensitivity and has outstanding sound pressure level. It has wide applications for burglar alarm systems, automatic door openers, flow rate detectors, and remote-control systems in TV, home appliance and toys, etc.
Sensors are not washable.

Type Q Enclosed Type

Temperature Range:
-20°C ~ 60°C

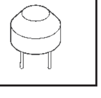

Type	Class	Ctr Frequency 51.0 (kHz)	Minimum Band-Width (kHz)	Sound Pressure Level (dB)	Maximum Input Voltage (Vrms)	Dimensions – mm Physical Size Diameter	Height	Leads Length	Space	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Panasonic Part No.
Q	Transmitter	40.0	1.0	105	20	18.0	12.0	12.5	7.5	P9893-ND	25.68	231.14	2054.60	7704.75	14382.20	EFR-TQB40KS

Miniature Audio Transducer For General Application

For use in:
• Burglar Alarms • Paging Systems • Smoke Detectors • Gas Detectors • Light and Radiation Detectors • Data Entry Terminals • Cash Registers • Alarm Clocks • Fish Finders • Metal Detectors • Medical Equipment • Test Instruments • Telephones • Movie Cameras • Automotive Warning Systems • Production Machinery • Various Electronic Equipment

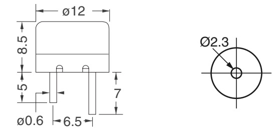

Continuous Tone

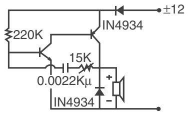

Intermittent Tone

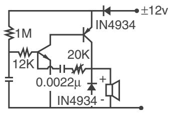

Rated Input (mW)	D.C. Resistance (Ω)	Impedance (Ω)	S. P. L. (dB/1 W/1 m)	Frequency (Hz)	Physical Size (mm)	Terminal	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
50	12	35	86	3.8K ~ 4.3K	12 x 8.5	Straight Pin	P9965-ND	4.44	39.37	318.20	1121.21	EAF-12RF04C

MALLORY
MALLORY SONALERT PRODUCTS, INC.

Sonalert® Audible Signal Devices (Buzzers)

Dimensions in Inches

Fig. 1

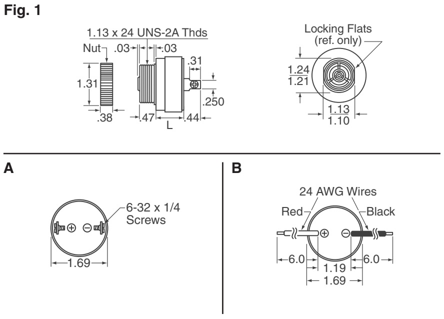

Fig. 2

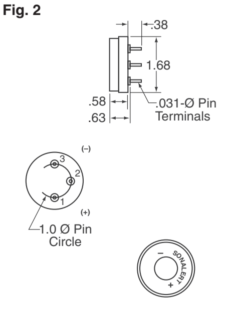

Fig. 3

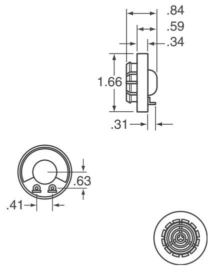

Fig. 4

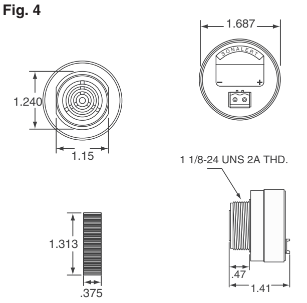

Fig.	Mounting Method	Dimension L (Inch)	Frequency ±500 (Hz)	Min. Sound Pressure dB (A) at Two Feet		Operating Voltage Range	Operating Current (mA)		Digi-Key Part No.	Price Each				Mallory Part No.
				@Min. (V)	@Max. (V)		@Min. (V)	@Max. (V)		1	10	25	50	
Continuous Tones														
1A	Panel	0.81	1,900 ±300	60	75	6 ~ 28VDC	6	23	458-1033-ND	25.85	23.36	20.71	19.47	SC628D
			2,900	60	75	1 ~ 5VDC	3	16	458-1012-ND	22.49	20.33	18.03	16.94	SC105
			2,900	80	90	3 ~ 7VDC	3	9	458-1021-ND	31.56	28.52	25.29	23.77	SC307N
			2,900	68	80	4 ~ 16VDC	4	14	458-1022-ND	22.49	20.33	18.03	16.94	SC416
			2,900	80	95	6 ~ 16VDC	6	22	458-1024-ND	28.35	25.62	22.72	21.35	SC616N
			2,900	68	80	6 ~ 28VDC	3	18	458-1029-ND	22.49	20.33	18.03	16.94	SC628
			2,900	80	90	6 ~ 28VDC	6	23	458-1036-ND	24.62	22.25	19.73	18.54	SC628N
			2,900	68	80	10 ~ 48VDC	5	22	458-1040-ND	23.44	21.18	18.78	17.65	SC648
			4,500	68	80	6 ~ 28VDC	6	23	458-1034-ND	28.60	25.85	22.92	21.54	SC628H
	Panel	1.38	1,900	60	75	30 ~ 120VAC/DC	6	21	458-1014-ND	49.98	45.17	40.05	37.64	SC110D
			2,000 ±300	75	95	6 ~ 28VDC	3	15	458-1037-ND	34.15	30.86	27.36	25.72	SC628ND
			2,900	68	80	30 ~ 120VAC/DC	6	21	458-1013-ND	46.30	41.84	37.10	34.87	SC110
			2,900	80	95	30 ~ 120VAC/DC	6	24	458-1016-ND	61.72	55.77	49.45	46.48	SC110N
			2,900	68	80	60 ~ 250VAC/DC	5	18	458-1020-ND	59.83	54.06	47.94	45.05	SC250
			2,900	68	80	6 ~ 28VAC/DC	6	23	458-1030-ND	39.21	35.43	31.42	29.53	SC628A
			2,900	80	95	6 ~ 28VAC/DC	4	30	458-1031-ND	50.03	45.21	40.09	37.68	SC628AN
1B	Panel	0.81	2,900	80	95	6 ~ 16VDC	6	22	458-1026-ND	31.13	28.13	24.94	23.44	SC616NL
2	Printed Board	—	2,900	64	78	4 ~ 28VDC	3	16	458-1011-ND	24.52	22.16	19.65	18.47	SBM428
3	Snap In Panel	—	2,900	55	68	1 ~ 5VDC	3	12	458-1041-ND	21.02	18.99	16.84	15.83	SNP2
			2,900	64	76	4 ~ 28VDC	3	18	458-1042-ND	21.02	18.99	16.84	15.83	SNP428
4	Panel	—	2,900	95	105	6 ~ 16VDC	—	20	458-1101-ND◆	28.95	26.16	23.20	21.80	SCE016XD3CTB
			2,900	85	95	16 ~ 28VAC	—	20	458-1102-ND◆	51.08	46.16	40.93	38.47	SCE028LA3CTB
			2,900	85	95	16 ~ 28VDC	—	20	458-1103-ND◆	25.13	22.71	20.14	18.93	SCE028LD3CTB
			2,900	75	85	16 ~ 28VAC	—	20	458-1104-ND◆	40.01	36.15	32.06	30.13	SCE028MA3CTB
			2,900	75	85	16 ~ 28VDC	—	20	458-1105-ND◆	22.96	20.75	18.40	17.29	SCE028MD3CTB
			2,900	75	85	28 ~ 48VAC	—	20	458-1106-ND◆	40.27	36.39	32.27	30.33	SCE048MA3CTB
			2,900	75	85	48 ~ 120VAC	—	20	458-1107-ND◆	47.24	42.69	37.86	35.58	SCE120MA3CTB
Intermittent Tones														
1A	Panel	0.81	2,900	80	95	6 ~ 16VDC	6	22	458-1025-ND†	36.37	32.87	29.15	27.39	SC616NJ
			2,900	80	95	6 ~ 16VDC	6	22	458-1027-ND‡	36.37	32.87	29.15	27.39	SC616NP
	Panel	1.38	2,000 ±300	85	95	10 ~ 28VDC	3	16	458-1038-ND‡	36.84	33.29	29.52	27.74	SC628NDP
			2,900	80	95	30 ~ 120VAC/DC	8	24	458-1018-ND‡	62.53	56.51	50.11	47.09	SC110NP
			2,900	80	95	6 ~ 28VAC/DC	4	30	458-1032-ND‡	55.49	50.15	44.47	41.79	SC628ANP
			2,900	68	80	6 ~ 28VDC	6	26	458-1035-ND†	38.18	34.50	30.59	28.75	SC628J
			2,900	68	80	6 ~ 28VDC	6	26	458-1039-ND‡	38.03	34.37	30.48	28.64	SC628P
	Panel	1.94	2,900	68	80	30 ~ 120VAC/DC	6	22	458-1015-ND†	60.18	54.38	48.22	45.32	SC110J
Chime Tone (Chimes Every One to Two Seconds)														
1A	Panel	1.38	2,900	68	78	6 ~ 16VDC	6	23	458-1023-ND	44.16	39.90	35.38	33.25	SC616CP
Optical/Audible Signal Devices (Contains a Blinking LED in the Front of the Alarm)														
1A	Panel	0.81	2,900	80	95	6 ~ 16VDC	40@6	60@16	458-1002-ND	61.52	55.59	49.29	46.33	LSC616N
	Panel	1.38	2,900	88	98	3 ~ 120VAC/DC	5@30	16@120	458-1000-ND	81.87	73.98	65.60	61.65	LSC110N
				85	95	6 ~ 28VAC/DC	4@6	48@28	458-1003-ND	79.13	71.51	63.41	59.59	LSC628AN
Accessories — RoHS Compliant														
Pluggable Screw Terminal Block for SCE Series									458-1108-ND	2.01	1.82	1.61	1.52	ACC02
Neoprene Gasket for SCE Series									458-1109-ND	.37	.33	.30	.28	ACC03

◆ ***RoHS Compliant***
‡ Fast = Turns on and off at 2 to 10 pulses per second depending upon voltage at 50% duty cycle.
† Slow = Turns on and off at 0.5 to 2 pulses per second depending upon voltage at 50% duty cycle.

Sonalert® Magnetic and Piezo Buzzers

Dim. in mm

Fig. 1

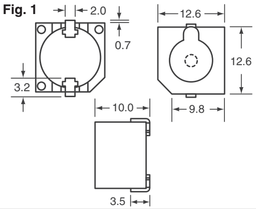

Fig. 2

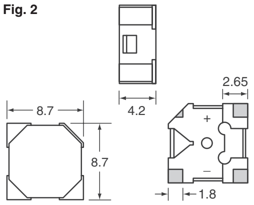

Fig. 3

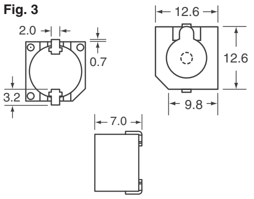

Fig. 4

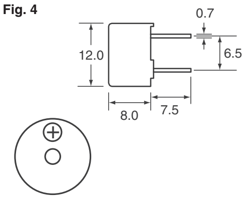

Fig. 5

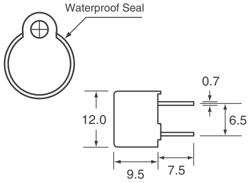

Fig. 6

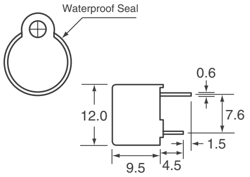

Fig. 7

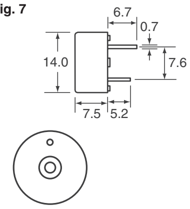

Fig. 8

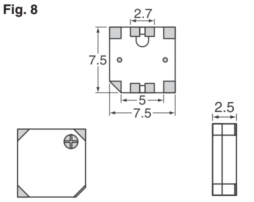

Fig. 9

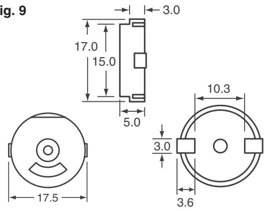

Fig. 10

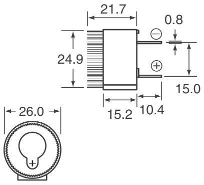

Fig. 11

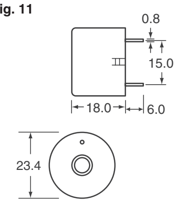

Fig. 12

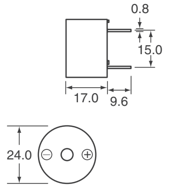

Fig. 13

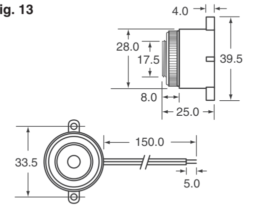

Fig. 14

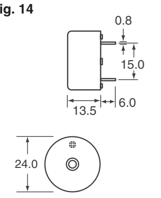

Fig. 15

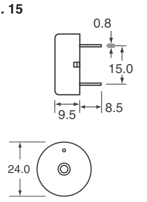

Fig. 16

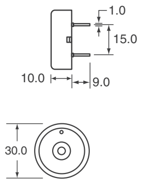

Fig. 17

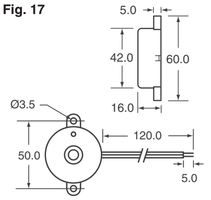

Fig. 18

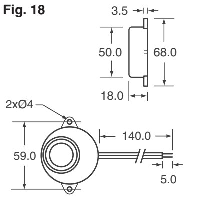

Fig. 19

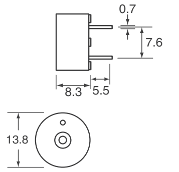

Fig. 20

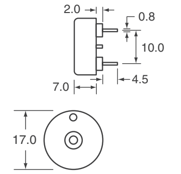

Fig. 21

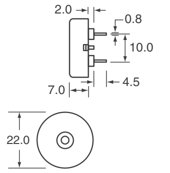

Fig. 22

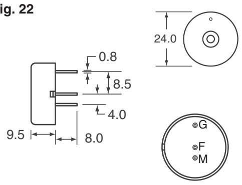

Fig. 23

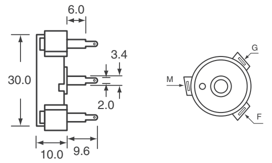

Fig. 24

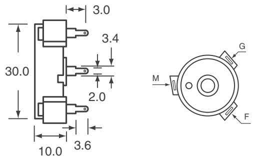

Fig. 25

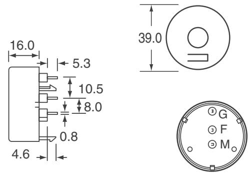

Fig. 26

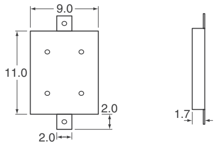

Fig. 27

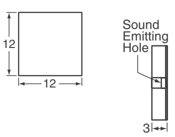

Fig. 28

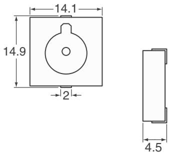

Fig. 29

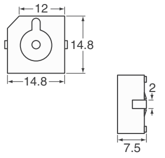

Fig. 30

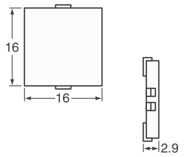

Fig. 31

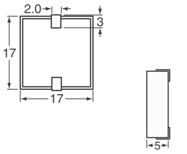

Fig. 32

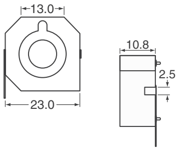

Fig.	Resonant Frequency (kHz)	Operating Voltage Range	Rated Voltage	Sound Pressure Level (dB)	Current Consumption Max (mA)	Operating Temperature Range °C	Digi-Key Part No.	Price Each 1	10	100	500	Tape and Reel◊ Qty.	Pricing	Mallory Part No.
							Magnetic Buzzers							
1	2.400	4.0 ~ 7.0Vdc	5.0Vdc	90	30	-20 ~ 70	458-1049-ND†	5.85	4.28	3.49	3.15	—	—	ASI301Q
1	2.400	9.0 ~ 15Vdc	12Vdc	90	50	-20 ~ 70	458-1050-ND†	5.85	4.28	3.49	3.15	—	—	ASI401Q
2	2.731	2.0 ~ 5.0Vp-p	3.0Vp-p	85	80	-20 ~ 70	458-1052-ND	7.93	5.87	4.86	4.44	—	—	AST200Q
3	2.400	1.0 ~ 2.0Vp-p	1.5Vp-p	85	50	-20 ~ 70	458-1053-ND†	5.64	4.00	3.28	2.93	—	—	AST501Q
3	2.400	4.0 ~ 7.0Vp-p	5.0Vp-p	87	50	-20 ~ 70	458-1054-ND†	5.47	3.89	3.19	2.84	—	—	AST605Q
4	2.048	1.25 ~ 2.5Vp-p	1.5Vp-p	85	40	-20 ~ 70	458-1061-ND	2.85	1.87	1.52	1.34	—	—	PB-1220PQ
5	2.400	4.5 ~ 5.5Vp-p	5.0Vp-p	85	50	-20 ~ 70	458-1062-ND	2.00	1.29	.99	.88	—	—	PB-1224PE-05Q
6	2.300	2.0 ~ 5.0Vdc	3.0Vdc	85	30	-20 ~ 70	458-1063-ND	6.06	4.43	3.62	3.27	—	—	PB-12N23P-03Q
6	2.300	4.5 ~ 5.5Vdc	5.0Vdc	85	50	-20 ~ 70	458-1064-ND	6.06	4.43	3.62	3.27	—	—	PB-12N23P-05Q
6	2.300	9.0 ~ 15Vdc	12Vdc	85	50	-20 ~ 70	458-1065-ND	6.06	4.43	3.62	3.27	—	—	PB-12N23P-12Q
7	4.100	3.0 ~ 15Vdc	12Vdc	85	10	-20 ~ 70	458-1066-ND	6.32	4.62	3.77	3.41	—	—	PK-12N40PQ
8	2.700	2.5 ~ 4.5Vp-p	3.6Vp-p	85	100	-30 ~ 70	458-1100-1-ND†	2.75	1.81	1.47	1.29	1,500	1310.00/M	AST7525MATRQ

◊ For Tape and Reel part number, change 1-ND to 2-ND

(Continued)

MALLORY
MALLORY SONALERT PRODUCTS, INC.

Sonalert® Magnetic and Piezo Buzzers *(Cont.)*

Fig.	Resonant Frequency (kHz)	Operating Voltage Range	Rated Voltage	Sound Pressure Level (dB)	Current Consumption Max (mA)	Operating Temperature Range °C	Digi-Key Part No.	Price Each 1	10	100	500	Tape and Reel◊ Qty.	Pricing	Mallory Part No.
							Piezo Buzzers							
9	4.000	3.0 ~ 15Vp-p	5.0Vp-p	80	1.5	-20 ~ 70	458-1051-ND†	3.80	2.62	2.14	1.90	—	—	AST100Q
10	2.800	9.0 ~ 12Vdc	12Vdc	103	50	-20 ~ 90	458-1056-ND	11.32	8.61	7.38	6.65	—	—	MAS800SQ
10	2.700	6.0 ~ 14Vdc	6.0Vdc	95	50	-20 ~ 90	458-1057-ND	12.58	9.79	8.11	7.55	—	—	MAS806Q
10	2.800	5.0 ~ 14Vdc	12Vdc	95	50	-20 ~ 90	458-1058-ND	12.62	9.82	8.14	7.58	—	—	MAS806SQ
11	2.500	3.0 ~ 20Vdc	12Vdc	95	20	-20 ~ 60	458-1059-ND	7.88	5.83	4.82	4.41	—	—	MCP320B2Q
11	2.500	3.0 ~ 24Vdc	12Vdc	95	25	-20 ~ 70	458-1067-ND	8.23	5.93	4.94	4.61	—	—	PK-20A25PQ
11	3.800	3.0 ~ 24Vdc	12Vdc	95	15	-20 ~ 70	458-1069-ND	7.68	5.68	4.70	4.30	—	—	PK-20A38PQ
12	3.150	3.0 ~ 20Vdc	12Vdc	74	20	-20 ~ 85	458-1060-ND	7.23	5.35	4.43	4.05	—	—	MCP320Q
13	3.500	3.0 ~ 24Vdc	12Vdc	95	10	-20 ~ 70	458-1068-ND	8.03	5.94	4.92	4.50	—	—	PK-20A35EWQ
14	3.000	3.0 ~ 24Vdc	12Vdc	85	18	-20 ~ 70	458-1070-ND	8.65	6.23	5.19	4.85	—	—	PK-21A31PQ
15	3.000	1.5 ~ 30Vdc	12Vdc	80	12	-20 ~ 70	458-1071-ND	6.47	4.74	3.86	3.49	—	—	PK-21N30PQ
15	3.000	5.0 ~ 30Vp-p	5.0Vp-p	90	5	-20 ~ 90	458-1080-ND	4.38	3.02	2.47	2.19	—	—	PT-2130PQ
16	2.500	3.0 ~ 28Vdc	12Vdc	90	8	-20 ~ 70	458-1072-ND	7.38	5.46	4.52	4.13	—	—	PK-27N26PSQ
16	3.500	3.0 ~ 28Vdc	12Vdc	90	15	-20 ~ 70	458-1073-ND	7.38	5.46	4.52	4.13	—	—	PK-27N36PSQ
16	2.500	3.0 ~ 30Vp-p	5.0Vp-p	90	1.5	-20 ~ 70	458-1081-ND	4.41	3.04	2.48	2.21	—	—	PT-2726PQ
17	2.500	5.0 ~ 15Vdc	12Vdc	100	40	-20 ~ 70	458-1074-ND	10.58	8.05	6.90	6.33	—	—	PS-562Q
18	2.800	5.0 ~ 15Vdc	12Vdc	100	150	-20 ~ 70	458-1075-ND	12.44	9.57	8.02	7.47	—	—	PS-580Q
19	4.100	3.0 ~ 20Vp-p	5.0Vp-p	80	2	-20 ~ 70	458-1076-ND	5.56	4.02	3.30	2.94	—	—	PT-1240PQ
20	4.000	3.0 ~ 25Vp-p	5.0Vp-p	85	1.5	-20 ~ 100	458-1077-ND	2.88	1.89	1.53	1.35	—	—	PT-1540PQ
21	4.000	3.0 ~ 30Vp-p	5.0Vp-p	90	1.5	-20 ~ 90	458-1078-ND	2.63	1.79	1.38	1.22	—	—	PT-2040PQ
22	3.000	1.5 ~ 30Vdc	12Vdc	80	12	-20 ~ 90	458-1079-ND	4.35	3.00	2.45	2.18	—	—	PT-2130FPQ
23	3.500	3.0 ~ 28Vdc	12Vdc	88	10	-20 ~ 90	458-1083-ND	4.38	3.02	2.47	2.19	—	—	PT-2735FPLQ
24	3.500	3.0 ~ 28Vdc	12Vdc	88	10	-20 ~ 90	458-1084-ND	4.55	3.14	2.56	2.28	—	—	PT-2735FPQ
25	3.400	3.0 ~ 28Vdc	9.0Vdc	105	12	-20 ~ 100	458-1085-ND	5.25	3.73	3.06	2.73	—	—	PT-3534FPQ
26	4.100	1.0 ~ 20Vp-p	5.0Vp-p	73	1.0	-20 ~ 70	458-1093-1-ND†	2.82	1.85	1.50	1.32	1,000	1340.00	AST1109MLTRQ
27	4.000	1.0 ~ 25Vp-p	3.0Vp-p	75	5	-20 ~ 70	458-1094-1-ND†	2.37	1.61	1.25	1.10	1,000	1111.00	AST1240MLTRQ
28	4.000	1.0 ~ 20Vp-p	5.0Vp-p	75	2	-30 ~ 70	458-1095-1-ND†	2.99	2.03	1.57	—	600	685.20	AST1440MATRQ
29	3.650	1.0 ~ 30Vp-p	7.0Vp-p	85	5	-30 ~ 70	458-1096-1-ND†	2.77	1.85	1.46	—	300	344.10	AST1575BMATRQ
30	4.000	1.0 ~ 25Vp-p	3.0Vp-p	75	5	-30 ~ 70	458-1097-1-ND†	2.54	1.72	1.33	1.17	800	950.40	AST1628MATRQ
31	4.000	1.0 ~ 20Vp-p	5.0Vp-p	80	2.5	-30 ~ 70	458-1098-1-ND	2.42	1.56	1.20	—	400	347.20	AST1750MATRQ
32	4.000	1.0 ~ 30Vp-p	9.0Vp-p	100	8.0	-30 ~ 70	458-1099-1-ND	2.55	1.69	—	—	—	—	AST2311MATRQ

◊ For Tape and Reel part number, change 1-ND to 2-ND

† **458-KIT-ND** SMD Buzzer Kit 2 each of 12 popular values. Conveniently packaged in a plastic box with bin guide.......... **$60.00**

Sonalert® Audible Signal Devices

Features: • Low Power Consumption • Low Cost • Compact Profile • Piezo Tone Quality • Extra Loud Sound Output • PCB Mount

Specifications: • Operating Temperature: -20°C ~ 65°C

Applications: • Fire Alarm • Crime Prevention Alarm • Call Buzzer • Automotive • Clocks • P.O.S. Equipment • Medical Instruments • Electrical Instruments • Industrial and Safety Equipment

Dim. in mm

Fig. 1

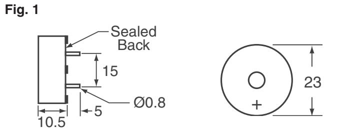

Fig. 2

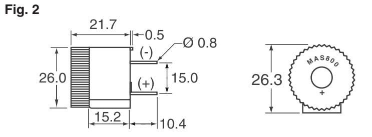

Fig.	Frequency ±400 (Hz)	Min. Sound Pressure dB (A) @ Two Feet @ Min. V	@ Max. V	Operating Voltage DC (V)	Operating Current (mA) @ Min. V	@ Max. V	Pulse Rate Per Second	Digi-Key Part No.	Price Each 1	10	25	50	Mallory Part No.
1	3850	75	86	5-16	3	14	Continuous	458-1088-ND	8.02	7.42	6.66	6.02	MSR516NR
	3900	75	86	5-16	3	12	.5 - 2 (Slow)	458-1089-ND	8.82	8.16	7.33	6.62	MSR516NJR
	3900	75	86	5-16	3	12	2 - 10 (Fast)	458-1090-ND	8.42	7.79	6.99	6.32	MSR516NPR
	3800 Avg.	75	86	5-16	3	12	2 - 4 (Siren)	458-1092-ND	14.34	13.27	11.91	10.76	MSR516XR
	3700 Avg.	75	86	5-16	3	12	5 - 7 (Whooping)	458-1091-ND	14.36	13.29	11.92	10.77	MSR516WR
	3400	75 @ 12V		3-20	3	16	Continuous	458-1087-ND	5.06	4.69	4.20	3.80	MSR320R
2	2800 ± 500 (Hz)	80	93	9-12	—	50	Continuous	458-1086-ND	9.76	9.03	8.11	7.32	MAS800Q

TDK

Audio Transducers

Dim. in mm

Fig. 1

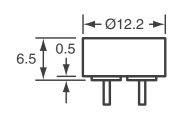

Fig. 2

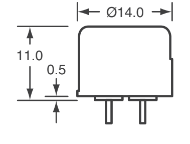

Fig. 3

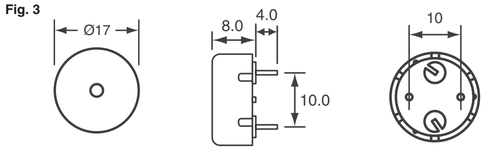

Fig. 6

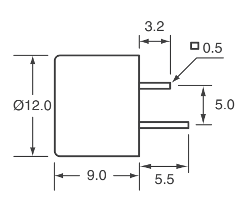

Fig. 4

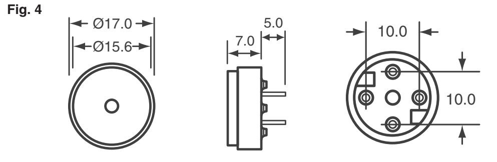

Fig. 5

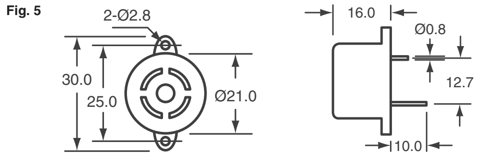

Fig.	Resonant Frequency (kHz)	Operating Voltage Range	Rated Voltage	Sound Pressure Level (dB)	Operating Temperature Range °C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Box Qty.	Pricing	TDK Part No.
1	4.0	3 ~ 30Vp-p	3Vp-p	70	-20 ~ 70	445-2525-1-ND	.39	.36	.29	445-2525-3-ND	500	107.00	PS1240P02AT
2	2.0	5 ~ 30Vp-p	5Vp-p	70	-20 ~ 70	445-2526-1-ND	.58	.54	.43	445-2526-3-ND	350	111.65	PS1420P02AT
3	2.0	3 ~ 30Vp-p	3Vp-p	70	-20 ~ 70	445-2527-ND	.51	.47	.38	—	—	—	PS1720P02
4	4.0	3 ~ 20Vp-p	3Vp-p	75	-20 ~ 70	445-2528-ND	.48	.44	.35	—	—	—	PS1740P02
5	3.3	4 ~ 15Vdc	12Vdc	75	-20 ~ 60	445-2529-ND	3.98	3.62	2.90	—	—	—	PB2130UP002A
6	2.048	1 ~ 4Vp-p 3 ~ 6Vp-p	3Vp-p 5Vp-p	80	-40 ~ 85	445-2530-ND 445-2531-ND	1.29 1.30	1.18 1.19	.94 .95	— —	— —	— —	SD1209T3-A1 SD1209T5-A1

Audio Transducers

Dimensions in mm

Fig. 1

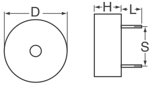

Fig. 2

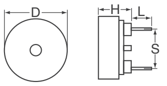

Fig. 3

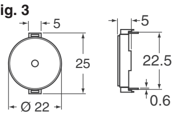

Fig. 4

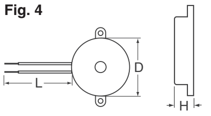

Fig. 5

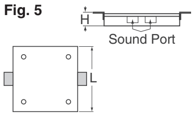

Fig. 6

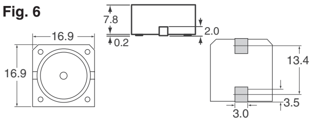

Fig. 7

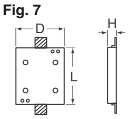

Fig. 8

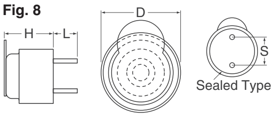

Fig. 9

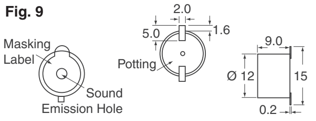

Fig. 10

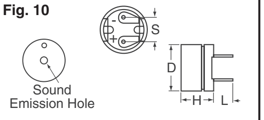

Fig. 11

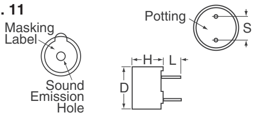

Fig. 12

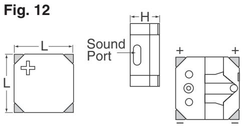

Fig. 13

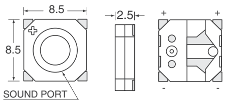

Fig. 14

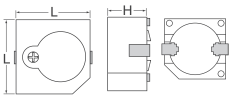

Fig. 15

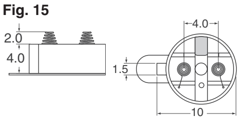

Fig. 16

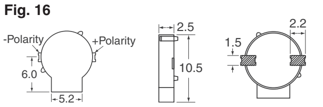

Fig. 17

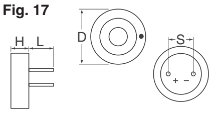

Fig. 18

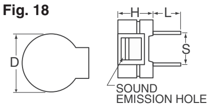

Fig. 19

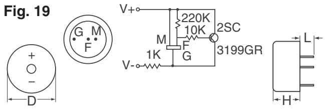

Fig. 20

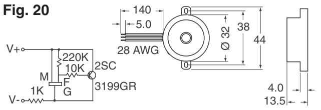

Fig. 21

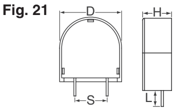

Piezo Ceramic Audio Transducers — External Drive Type

Digi-Reel®

Fig.	Resonant Frequency (kHz)	Operating Voltage (Maximum)	SPL (dB) min. @ Resonant Frequency	Current Consumption (Maximum)	Dimensions – mm D	H	S	L	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Tape & Reel Pricing†	CUI Inc. Part No.
1	2.0	30V p-p	93 @ 2.0kHz	11mA	30	13.5	20	6.5	102-1140-ND◆	2.20	2.00	1.60	1.33	1.16	—	CEP-1114
	2.0	30V p-p	90 @ 2.0kHz	8mA	30	10	15.2	6.0	102-1141-ND◆	1.95	1.78	1.42	1.18	1.03	—	CEP-1116
	2.4	30V p-p	88 @ 2.4kHz	18mA	22.8	13.5	10	7.0	102-1137-ND◆	2.83	2.58	2.06	1.71	1.50	—	CEP-1106
	4.0	20V p-p	76 @ 4.0kHz	10mA	14	7.0	7.6	4.5	102-1133-ND◆	2.26	2.05	1.64	1.37	1.19	—	CEP-1160
	4.0	20V p-p	80 @ 4.0kHz	7mA	14	7.0	7.6	4.5	102-1134-ND◆	2.45	2.23	1.78	1.48	1.30	—	CEP-1162
	4.0	30V p-p	92 @ 4.0kHz	11mA	24	7.3	10	7.0	102-1138-ND◆	1.38	1.25	1.00	.83	.73	—	CEP-1112
	4.8	30V p-p	85 @ 4.8kHz	11mA	14	4	—	90	102-1617-ND◆Δ	.88	.80	.64	.53	.46	—	CPE-165
	4.8	30V p-p	80 @ 4.8kHz	10mA	13	2.5	—	35	102-1616-ND◆Δ	.94	.85	.68	.57	.49	—	CPE-163
	5.0	30V p-p	80 @ 5.0kHz	9mA	16.5	4	—	95	102-1618-ND◆Δ	1.24	1.13	.90	.75	.65	—	CPE-150
2	3.0	30V p-p	90 @ 2.8kHz	10mA	30.2	7.5	15.24	5.5	102-1139-ND◆	1.82	1.65	1.32	1.10	.96	—	CEP-1130
	4.0	20V p-p	82 @ 4.0kHz	7mA	17	7.6	10	3.5	102-1136-ND◆	1.51	1.38	1.10	.92	.80	—	CEP-1153
	4.0	30V p-p	84 @ 4.0kHz	6mA	22.1	5.3	10	3	102-1614-ND◆	1.10	1.00	.80	.67	.58	—	CPE-813
	5.0	20V p-p	82 @ 5.0kHz	11mA	16.5	7.0	11	6.5	102-1135-ND◆	1.38	1.25	1.00	.83	.73	—	CEP-1152
3	2.5	50V p-p	80 @ 2.5kHz	7mA	—	—	—	—	102-1142-ND◆	1.54	1.40	1.12	.93	.82	—	CEP-1108
4	2.8	30V p-p	92 @ 2.8kHz	10mA	29.5	5.2	—	120	102-1145-ND	1.73	1.58	1.26	1.05	.92	—	CEP-1126
	4.1	30V p-p	90 @ 4.1kHz	12mA	24	5.0	—	95	102-1144-ND◆	1.38	1.25	1.00	.83	.73	—	CEP-1110
	4.5	50V p-p	97 @ 4.5kHz	11mA	30	5.1	—	110	102-1620-ND◆	1.10	1.00	.80	.67	.58	—	CPE-827
	6.0	30V p-p	88 @ 6.0kHz	8mA	24	4	—	100	102-1619-ND◆	1.29	1.18	.94	.78	.68	—	CPE-120
5	4.0	25V p-p	75 @ 4.0kHz	3mA	—	2.7	—	16	102-1193-1-ND◆‡	1.79	1.63	1.30	1.08	—	910.00/1,000	CMT-1603
	4.1	25V p-p	70 @ 4.1kHz	5mA	—	2.5	—	12.8	102-1195-1-ND◆‡	2.37	2.15	1.72	1.43	—	1204.00/1,000	CMT-1303
6	5.0	20V p-p	88 @ 5.0kHz	10mA	—	—	—	—	102-1194-5-ND◆	2.37	2.15	1.72	1.43	1.25	—	CMT-1261
7	4.1	25V p-p	70 @ 4.1kHz	4.5mA	9.0	1.7	—	11.0	102-1264-1-ND◆‡	2.64	2.40	1.92	1.60	—	2688.00/2,000	CMT-1102
8	2.8	30V p-p	75 @ 2.8kHz	4mA	9.0	8.0	5.0	4.0	102-1283-ND◆	1.53	1.33	1.02	.85	.77	—	CPE-171
11	4.0	20V p-p	80 @ 4.0kHz	10mA	13.7	7.6	7.62	5.5	102-1612-ND◆	1.90	1.73	1.38	1.15	1.00	—	CPE-164
17	4.0	30V p-p	84 @ 4.0kHz	9mA	13	6	5	6	102-1613-ND◆	1.40	1.28	1.02	.85	.74	—	CPE-168
	6.0	30V p-p	90 @ 4.1kHz	8mA	24	6.7	10	5.8	102-1615-ND◆	1.76	1.60	1.28	1.07	.93	—	CPE-122
21	3.3	30V p-p	93 @ 3.3kHz	10mA	24	10	12.5	5.5	102-1610-ND◆	1.76	1.60	1.28	1.07	.93	—	CPE-502

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape Δ Wire Leads

Magnetic Audio Transducers — External Drive Type

Digi-Reel®

Fig.	Resonant Frequency (kHz)	Operating Voltage (Maximum)	SPL (dB) min. @ Resonant Frequency	Current Consumption (Maximum)	Dimensions – mm D	H	S	L	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Tape & Reel Pricing†	CUI Inc. Part No.
1	3.0	1.0 ~ 1.7V O-p	70 @ 3.0kHz	80mA	6.6	3.5	3.2	3.3	102-1284-ND◆	1.89	1.64	1.26	1.05	.95	—	CC-0601
8	2.048	1 ~ 3V O-p	80 @ 2.048kHz	20mA	16	14.0	7.6	7.0	102-1112-ND◆Δ	1.40	1.28	1.02	.85	.74	—	CEM-1601
	2.048	3 ~ 12V O-p	85 @ 2.048kHz	50mA	16	14.0	7.6	7.0	102-1113-ND◆Δ	1.40	1.28	1.02	.85	.74	—	CEM-1606
	2.048	6 ~ 18V O-p	85 @ 2.048kHz	40mA	16	14.0	7.6	7.0	102-1114-NDΔ	1.40	1.28	1.02	.85	.74	—	CEM-1612
9	2.4	4 ~ 8V O-p	85 @ 2.4kHz	40mA	—	—	—	—	102-1150-ND◆Δ	2.09	1.90	1.52	1.27	1.11	—	CD-1206
10	2.048	1 ~ 2V O-p	85 @ 2.048kHz	20mA	12	8.5	6.5	5.5	102-1151-ND◆	.63	.58	.46	.39	.34	—	CEM-1201(42)
	2.048	1 ~ 2V O-p	80 @ 2.048kHz	20mA	12	8.5	6.5	5.5	102-1152-ND◆	.63	.58	.46	.39	.34	—	CEM-1201(50)
	2.048	3 ~ 5V O-p	85 @ 2.048kHz	20mA	12	8.5	6.5	5.5	102-1153-ND◆	.72	.65	.52	.44	.38	—	CEM-1203(42)
	2.048	1 ~ 2V O-p	70 @ 2.048kHz	35mA	12.0	5.5	6.5	5.5	102-1464-ND◆	.88	.80	.64	.54	.47	—	CSQ-601BP
	2.048	1 ~ 2V O-p	70 @ 2.048kHz	20mA	12.0	5.5	6.5	5.5	102-1463-ND◆	.94	.85	.68	.57	.50	—	CSQ-706BP
	2.73	1 ~ 2V O-p	85 @ 2.73kHz	80mA	9.0	4.5	4.0	4.5	102-1457-ND◆	.99	.90	.72	.60	.53	—	CST-911AP
	2.73	2 ~ 4V O-p	85 @ 2.73kHz	80mA	9.0	4.5	4.0	4.5	102-1458-ND◆	.99	.90	.72	.60	.53	—	CST-931AP
	2.73	4 ~ 6V O-p	85 @ 2.73kHz	80mA	9.0	4.5	4.0	4.5	102-1459-ND◆	.99	.90	.72	.60	.53	—	CST-951AP
11	2.4	1 ~ 3V O-p	80 @ 2.4kHz	40mA	12	9.5	6.5	5.5	102-1154-ND◆Δ	.83	.75	.60	.50	.44	—	CEM-1201S
	2.4	3 ~ 8V O-p	85 @ 2.4kHz	45mA	12	9.5	6.5	5.5	102-1155-ND◆Δ	.83	.75	.60	.50	.44	—	CEM-1206S
	2.4	6 ~ 16V O-p	85 @ 2.4kHz	40mA	12	9.5	6.5	5.5	102-1156-ND◆Δ	.83	.75	.60	.50	.44	—	CEM-1212S
	2.4	4.0 ~ 8.0V O-p	85 @ 2.4kHz	50mA	12	10.0	6.5	3.3	102-1269-ND◆	.80	.73	.58	.49	.43	—	CCG-1206
	2.8	1 ~ 1.7V O-p	85 @ 2.8kHz	40mA	12	10	5.0	3.3	102-1169-ND◆Δ	1.24	1.13	.90	.75	.66	—	CEM-14R06CT
12	2.73	2.5 ~ 4.5V O-p	87 @ 2.73kHz	100mA	—	4.0	—	8.5	102-1197-1-ND◆‡	2.28	2.08	1.66	1.38	—	1162.00/1,000	CSS-73B16K
	3.1	3 ~ 5.0V O-p	90 @ 3.1kHz	80mA	—	3.2	—	8.5	102-1198-1-ND◆‡	2.34	2.13	1.70	1.42	—	1190.00/1,000	CSS-J4D20
	2.73	3 ~ 5V O-p	90 @ 2.73kHz	80mA	—	3.2	—	8.5	102-1456-1-ND◆‡	2.34	2.13	1.70	1.42	—	1190.00/1,000	CSS-J4B20
13	2.73	3 ~ 5V O-p	85 @ 2.73kHz	80mA	—	—	—	—	102-1455-1-ND◆‡	2.34	2.13	1.70	1.42	—	1190.00/1,000	CSS-I4B20
14	2.4	3 ~ 8.0V O-p	87 @ 2.4kHz	40mA	—	6.5	—	12.8	102-1199-1-ND◆‡	1.79	1.63	1.30	—	—	424.13/450	CT-1205
	2.4	3.0 ~ 7.0V O-p	88 @ 2.4kHz	60mA	—	6.5	—	12.8	102-1266-1-ND◆‡	1.60	1.45	1.16	—	—	269.12/320	CT-1205H
15	2.73	2 ~ 4.5V O-p	90 @ 2.73kHz	80mA	—	—	—	—	102-1202-ND◆	2.26	2.05	1.64	1.37	1.19	—	CST-934AS
16	2.73	2.5 ~ 4.5V O-p	85 @ 2.73kHz	110mA	—	—	—	—	102-1265-1-ND◆‡	1.82	1.65	1.32	—	—	462.00/500	CCV-084B16
17	2.0	2.0 ~ 4.0V O-p	85 @ 2.0kHz	90mA	12.0	3.8	6.5	5.5	102-1286-ND◆	.87	.76	.58	.49	.44	—	CSQG703BP
18	2.73	1 ~ 2V O-p	85 @ 2.73kHz	80mA	12.0	6.0	6.5	5.5	102-1465-ND◆	.80	.73	.58	.49	.43	—	CSQ-RP/E
	2.73	1 ~ 2V O-p	85 @ 2.73kHz	80mA	9.0	4.5	4.0	4.5	102-1460-ND◆	1.05	.95	.76	.64	.56	—	CST-911RP/A
	2.73	2 ~ 4V O-p	85 @ 2.73kHz	80mA	9.0	4.5	4.0	4.5	102-1461-ND◆	1.05	.95	.76	.64	.56	—	CST-931RP/A
	2.73	4 ~ 6V O-p	85 @ 2.73kHz	80mA	9.0	4.5	4.0	4.5	102-1462-ND◆	1.05	.95	.76	.64	.56	—	CST-951RP/A

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape Δ Wave solderable and washable

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Piezo Ceramic Audio Transducers — Self Drive Type with Feedback

Fig.	Resonant Frequency (kHz)	Operating Voltage (Maximum)	SPL (dB) min. @ Resonant Frequency	Current Consumption (Maximum)	Dimensions – mm				Digi-Key Part No.	Price Each					CUI Inc. Part No.
					D	H	S	L		1	10	100	500	1,000	
19	3.2	3 ~ 28VDC	74 @ 12VDC	7mA	24	10	—	6.5	102-1146-ND*	1.60	1.45	1.16	.97	.85	CEP-1123
20	3.3	3 ~ 28VDC	82 @ 12VDC	7mA	—	—	—	—	102-1149-ND*	2.04	1.85	1.48	1.23	1.08	CEP-1173
21	3.2	3 ~ 28VDC	72 @ 12VDC	7mA @ 12VDC	24	10	—	5.5	102-1611-ND	2.15	1.95	1.56	1.30	1.13	CPE-503

***** Feedback circuit required

Buzzers

Audio Indicators

Fig.	Resonant Frequency (kHz)	Input Voltage Range	SPL (dB) Min. @ Voltage	Max. Current Consumption (mA)	Dimensions – mm				Mode	Digi-Key Part No.	Price Each			CUI Inc. Part No.
					D	H	S	L			1	10	100	
Piezo Buzzers with Drive Circuits														
1	3.0	3 ~ 20VDC	85 @ 12VDC	11 @ 12VDC	24.2	16.0	15.0	6.0	Continuous	102-1116-ND◆	3.41	3.10	2.48	CEP-2202A
	3.0	3 ~ 20VDC	85 @ 12VDC	11 @12VDC	24.2	16.0	15.0	6.0	Continuous	102-1117-ND◆∆	3.71	3.38	2.70	CEP-2202AS
	3.4	3 ~ 20VDC	78 @ 12VDC	15 @ 12VDC	24	9.0	15	5.5	Continuous	102-1119-ND◆	2.50	2.28	1.82	CEP-2224
	3.5	3 ~ 20VDC	93 @ 12VDC	10 @ 12VDC	31.3	16	17.5	6.0	Continuous	102-1118-ND◆	3.49	3.18	2.54	CEP-2272A
	4.1	3 ~ 16VDC	70 @ 12VDC	7 @ 12VDC	13.7	7.6	7.62	6.2	Continuous	102-1115-ND◆∆	2.64	2.40	1.92	CEP-2242
2	2.7	3 ~ 20VDC	76 @ 12VDC	10 @ 12VDC	24	8.3	—	100	Continuous	102-1630-ND◆	2.81	2.55	2.04	CPE-220
	3.5	3 ~ 20VDC	93 @ 12VDC	10 @ 12VDC	32	13.5	—	140	Continuous	102-1120-ND◆	3.27	2.98	2.38	CEP-2260A
	4.5	3 ~ 28VDC	83 @ 12VDC	13 @ 12VDC	24	5	—	120	Continuous	102-1621-ND◆	1.76	1.60	1.28	CPE-121
	2.5 ~ 3.8	6 ~ 18VDC	88 @ 12VDC	17 @ 12VDC	32	23	—	140	Continuous	102-1121-ND	6.13	5.58	4.46	CEP-2280
3	3.5	3 ~ 28VDC	85 @ 12VDC	6 @ 12VDC	28	25.4	—	150	Continuous	102-1122-ND◆	4.26	3.88	3.10	CEP-2250
	3.5	4 ~ 28VDC	87 @ 12VDC	6 @ 12VDC	28	25.4	—	150	Continuous	102-1632-ND◆	5.39	4.90	3.92	CPE-253
	3.5	4 ~ 28VDC	82 @ 12VDC	5 @ 12VDC	28	25.4	—	150	Continuous	102-1631-ND◆	5.39	4.90	3.92	CPE-251
4	0.3	9 ~ 14VDC	89 @ 12VDC	70 @ 12VDC	41.8	22	—	140	Continuous	102-1645-ND◆	6.71	6.10	4.88	CPE-460
	2.8	30 ~ 120VAC/DC	88 @ 110VAC	7 @ 110VAC	41.8	22	—	140	Continuous	102-1125-ND◆	5.45	4.95	3.96	CEP-4411AC
	2.8	3 ~ 16VDC	102 @ 12VDC	40 @ 12VDC	41.8	22	—	140	Continuous	102-1641-ND◆	6.60	6.00	4.80	CPE-420
	2.8	3 ~ 20VDC	88 @ 12VDC	10 @ 12VDC	41.8	16	—	145	Continuous	102-1640-ND◆	5.83	5.30	4.24	CPE-353A
	2.8	3 ~ 20VDC	92 @ 12VDC	12 @ 12VDC	41.8	16	—	140	Continuous	102-1637-ND◆	4.02	3.65	2.92	CPE-350A
	2.8	3 ~ 28VDC	81 @ 12VDC	8 @ 12VDC	41.8	16	—	140	Continuous	102-1639-ND◆	4.95	4.50	3.60	CPE-353
	2.8	3 ~ 28VDC	81 @ 12VDC	6 @ 12VDC	41.8	16	—	140	Continuous	102-1638-ND◆	5.17	4.70	3.76	CPE-351
	2.8	3 ~ 28VDC	85 @ 12VDC	7 @ 12VDC	41.8	16	—	140	Continuous	102-1636-ND◆	3.36	3.05	2.44	CPE-350
	3	60 ~ 250VAC/DC	92 @ 220VAC	13 @ 220VAC	41.8	22	—	140	Continuous	102-1644-ND◆	6.60	6.00	4.80	CPE-422AC
	3.1	3 ~ 20VDC	73 @ 12VDC	14 @ 12VDC	23.8	14.5	—	110	Continuous	102-1629-ND◆	3.00	2.73	2.18	CPE-200
	3.1	3 ~ 30VAC/DC	89 @ 12VAC	8 @ 12VAC	41.8	22	—	140	Continuous	102-1643-ND◆	4.79	4.35	3.48	CPE-400AC
	3.5	3 ~ 28VDC	86 @ 12VDC	5 @ 12VDC	33.7	14.5	—	140	Continuous	102-1634-ND◆	2.92	2.65	2.12	CPE-270
	3.5	8 ~ 18VDC	96 @ 12VDC	12 @ 12VDC	33.7	14.5	—	140	Continuous	102-1635-ND◆	4.02	3.65	2.92	CPE-270H
	3.5	8 ~ 18VDC	92 @ 12VDC	12 @ 12VDC	32	13.5	—	140	Continuous	102-1633-ND◆	4.24	3.85	3.08	CPE-260H
5	4.0	3 ~ 20VDC	83 @ 12VDC	8 @ 12VDC	—	—	—	—	Continuous	102-1196-5-ND◆	3.96	3.60	2.88	CMI-1240
7	5.0	9 ~ 16VDC	80 @ 12VDC	35 @ 12VDC	—	—	—	—	Continuous	102-1281-ND◆*	7.38	6.40	4.92	CPE-243
	5.0	9 ~ 16VDC	80 @ 12VDC	35 @ 12VDC	—	—	—	—	Continuous	102-1468-ND◆	6.85	6.23	4.98	CPE-244
8	2.8	6 ~ 14VDC	85 @ 12VDC	35 @ 12VDC	—	—	—	—	Continuous	102-1282-ND◆*	8.97	7.78	5.98	CPE-267
12	3.6	6 ~ 28VDC	82 @ 12VDC	10 @ 12VDC	31.5	19.5	—	—	Continuous	102-1656-ND◆	12.32	11.20	8.96	CPE-753
	3.6	6 ~ 28VDC	80 @ 12VDC	7 @ 12VDC	31.5	19.5	—	—	Continuous/Fast Pulse	102-1657-ND◆	14.91	13.55	10.84	CPE-755
	3.6	6 ~ 28VDC	79 @ 12VDC	9 @ 12VDC	31.5	19.5	—	—	Continuous/Slow Pulse	102-1658-ND◆	14.25	12.95	10.36	CPE-757
	3.6	6 ~ 28VDC	80 @ 12VDC	8 @ 12VDC	31.5	19.5	—	—	Continuous/Fast Pulse	102-1659-ND◆	14.25	12.95	10.36	CPE-755S
	3.6	4 ~ 28VDC	80 @ 12VDC	7 @ 12VDC	31.5	19.5	—	—	Continuous	102-1660-ND◆	12.32	11.20	8.96	CPE-750P
	3.6	6 ~ 28VDC	80 @ 12VDC	8 @ 12VDC	31.5	19.5	—	—	Continuous/Fast Pulse	102-1661-ND◆	14.91	13.55	10.84	CPE-755P
	3.6	.7 ~ 15VDC	98 @ 12VDC	20 @ 12VDC	31.5	19.5	—	—	Continuous	102-1662-ND◆	14.58	13.25	10.60	CPE-750PA
	3.6	4 ~ 28VDC	80 @ 12VDC	8 @ 12VDC	31.5	19.5	—	—	Continuous	102-1654-ND◆	10.07	9.15	7.32	CPE-750
	3.6	6 ~ 28VDC	76 @ 12VDC	9 @ 12VDC	31.5	19.5	—	—	Continuous	102-1655-ND◆	12.32	11.20	8.96	CPE-751
13	2.5	3 ~ 16VDC	100 @ 12VDC	58 @ 12VDC	50	37.5	—	150	Continuous	102-1642-ND◆	9.74	8.85	7.08	CPE-960
14	3.3	3 ~ 20VDC	81 @ 12VDC	13 @ 12VDC	23.8	12.2	12	6	Continuous	102-1625-ND◆	3.05	2.78	2.22	CPE-223
	3.4	3 ~ 20VDC	86 @ 12VDC	9 @ 12VDC	24.5	16	12	6	Continuous	102-1626-ND◆	3.00	2.73	2.18	CPE-203
	3	8 ~ 18VDC	96 @ 12VDC	11 @ 12VDC	32	14.7	17.5	6	Continuous	102-1627-ND◆	4.84	4.40	3.52	CPE-276H
	2.8	3 ~ 28VDC	89 @ 12VDC	10 @ 12VDC	42	14	25.4	6.5	Continuous	102-1628-ND◆	3.74	3.40	2.72	CPE-352
	3.2	8 ~ 18VDC	85 @ 12VDC	10 @ 12VDC	23.3	10.2	17.5	6.5	Continuous	102-1624-ND◆	4.02	3.65	2.92	CPE-232H
	3.2	8 ~ 18VDC	85 @ 12VDC	10 @ 12VDC	23.3	10.2	15	6.5	Continuous	102-1623-ND◆	3.96	3.60	2.88	CPE-222H
15	3.2	3 ~ 20VDC	75 @ 12VDC	10 @ 12VDC	24	10	12.5	5.5	Continuous	102-1622-ND◆	3.41	3.10	2.48	CPE-522
Magnetic Buzzers with Drive Circuits — RoHS Compliant														
6	2.4	4 ~ 7VDC	90 @ 5VDC	30 @ 5VDC	—	10	—	12.8	Continuous	102-1200-1-ND‡	2.72	2.48	1.98	CT-1205C
	2.4	4 ~ 7VDC	90 @ 5VDC	30 @ 5VDC	—	10	—	12.8	Continuous	102-1200-2-ND†	459.36/320			CT-1205C
	2.4	4 ~ 7VDC	88 @ 5VDC	30 @ 5VDC	—	7.1	—	12.8	Continuous	102-1267-1-ND‡	2.72	2.48	1.98	CT-1205CL
	2.4	4 ~ 7VDC	88 @ 5VDC	30 @ 5VDC	—	7.1	—	12.8	Continuous	102-1267-2-ND†	645.98/450			CT-1205CL
	2.4	8 ~ 15VDC	85 @ 12VDC	30 @ 12VDC	—	7.1	—	12.8	Continuous	102-1268-1-ND‡	2.72	2.48	1.98	CT-1212CL
	2.4	8 ~ 15VDC	85 @ 12VDC	30 @ 12VDC	—	7.1	—	12.8	Continuous	102-1268-2-ND†	645.98/450			CT-1212CL
9	2.73	4 ~ 7VDC	80 @ 5VDC	35 @ 5VDC	9.6	5.0	5.0	5.5	Continuous	102-1285-ND∆	1.98	1.72	1.32	CX-0905C
10	2.2	4 ~ 7VDC	85 @ 6VDC	50 @ 6VDC	16.0	14.0	7.6	7.0	Continuous	102-1466-ND	2.42	2.20	1.76	CX-1606C
	2.2	8 ~ 16VDC	85 @ 12VDC	35 @ 12VDC	16.0	14.0	7.6	7.0	Continuous	102-1467-ND	2.42	2.20	1.76	CX-1612C
11	2.3	8 ~ 16VDC	85 @ 12VDC	35 @ 12VDC	—	—	—	—	Continuous	102-1123-ND∆	2.31	2.10	1.68	CEM-1212C
	2.3	4 ~ 7VDC	85 @ 5VDC	35 @ 5VDC	—	—	—	—	Continuous	102-1124-ND∆	2.31	2.10	1.68	CEM-1205C

◆ ***RoHS Compliant*** ∆ Wave Solderable and Washable † Tape and Reel ‡ Cut Tape * Waterproof

Dimension in mm

Fig. 1

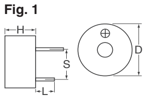

Fig. 2

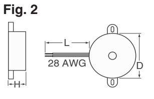

Fig. 3

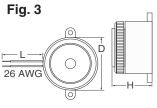

Fig. 4

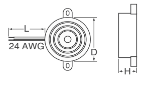

Fig. 5

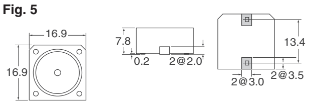

Fig. 6

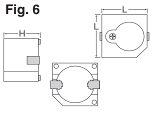

Fig. 7

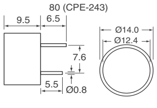

Fig. 8

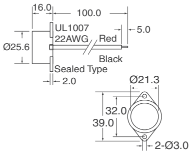

Fig. 9

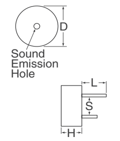

Fig. 10

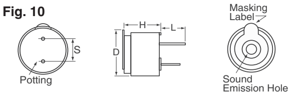

Fig. 11

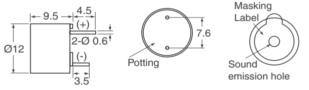

Fig. 12

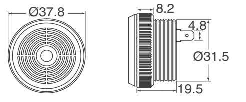

Fig. 13

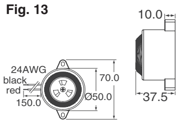

Fig. 14

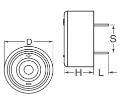

Fig. 15

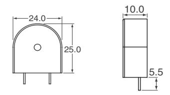

Piezo Telephone Ringer

Sound Pressure Level	Electrostatic Capacitance (@ 1kHz)	Input Voltage (Max.)	Digi-Key Part No.	Price Each					CUI Inc. Part No.
				1	10	100	500	1,000	
81dB @ 1.1kHz	43,000pF	30V p-p	102-1132-ND	1.71	1.55	1.24	1.03	.90	CEP-1141

Dim. in mm

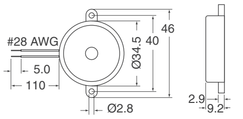

9-15VDC Buzzer

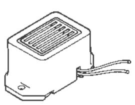

Operates from 9-15VDC.

Case size: 23mm(L) x 15mm(W) x 13.5mm(H) with mounting hole centers at 27mm.

140CU-ND **$2.88/1; $26.40/10**

(Continued)

Solid State Buzzers

RoHS COMPLIANT

Fig. 1

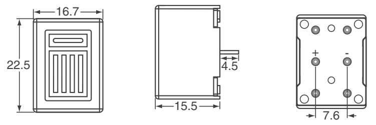

Fig. 2

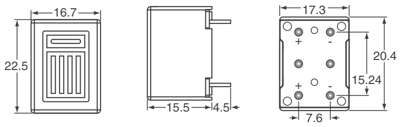

Fig. 3

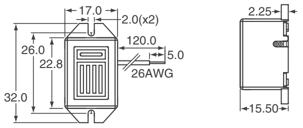

Fig.	Input Voltage Range	SPL (dB) min. @ Voltage	Current Consumption (Maximum)	Digi-Key Part No.	Price Each 1	10	100	500	1,000	CUI Inc. Part No.
1	8 ~ 18VDC	77 @ 12VDC	25mA @ 12VDC	102-1650-ND	4.24	3.85	3.08	2.57	2.23	CS-3212
	20 ~ 28VDC	76 @ 24VDC	20mA @ 24VDC	102-1651-ND	4.24	3.85	3.08	2.57	2.23	CS-3224
2	4 ~ 8VDC	75 @ 6VDC	25mA @ 6VDC	102-1652-ND	4.40	4.00	3.20	2.67	2.32	CS-8406
	8 ~ 16VDC	77 @ 12VDC	30mA @ 12VDC	102-1653-ND	4.40	4.00	3.20	2.67	2.32	CS-8412
3	20 ~ 28VDC	76 @ 24VDC	24mA @ 24VDC	102-1649-ND	4.07	3.70	2.96	2.47	2.15	CS-3624
	8 ~ 16VDC	79 @ 12VDC	30mA @ 12VDC	102-1648-ND	4.07	3.70	2.96	2.47	2.15	CS-3612
	4 ~ 8VDC	75 @ 6VDC	45mA @ 6VDC	102-1647-ND	4.07	3.70	2.96	2.47	2.15	CS-3606
	2 ~ 4VDC	75 @ 3VDC	50mA @ 3VDC	102-1646-ND	4.07	3.70	2.96	2.47	2.15	CS-3603

Piezoelectric Ceramic Buzzer Elements

Dimensions – mm A	B	T	t	Resonant Frequency (kHz)	Resonant Impedance (Maximum Ω)	Electrostatic Capacity (@ 1kHz)	Input Voltage (Max.)	Digi-Key Part No.	Price Each 1	10	100	500	1,000	CUI Inc. Part No.
							Fig. 1 — Standard Type							
20.00	14.60	0.43	0.20	6.5	350	13,000pF	30V p-p	102-1126-ND◆	1.02	.93	.74	.62	.54	CEB-20D64
27.00	19.80	0.53	0.25	4.6	250	16,000pF	20V p-p	102-1127-ND◆	1.10	1.00	.80	.67	.58	CEB-27D44
35.00	25.00	0.53	0.25	2.6	300	30,000pF	30V p-p	102-1128-ND◆	1.43	1.30	1.04	.87	.76	CEB-35D26
44.00	25.00	0.23	0.10	0.6	1,000	70,000pF	20V p-p	102-1170-ND	1.62	1.48	1.18	.98	.86	CEB-44D06
							Fig. 2 — Feed Back Type							
20.00	15.00	0.43	0.20	6.4	400	10,000pF	30V p-p	102-1129-ND◆	1.18	1.08	.86	.72	.63	CEB-20FD64
27.00	20.00	0.51	0.25	4.5	500	16,000pF	30V p-p	102-1130-ND	1.21	1.10	.88	.74	.64	CEB-27FD44
35.00	25.00	0.53	0.25	2.9	500	25,000pF	30V p-p	102-1131-ND	1.57	1.43	1.14	.95	.83	CEB-35FD29

◆ ***RoHS Compliant***

Fig. 1

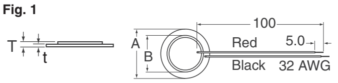

Fig. 2

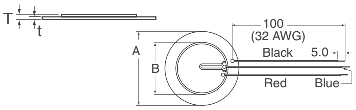

Piezo Buzzer Elements

pui audio

RoHS COMPLIANT

Fig.	Dimensions – mm D	d	T	Resonant Frequency (kHz)	Capacitance (pF)	Max. Input Voltage (Vpp)	Digi-Key Part No.	Price Each 1	10	100	500	Projects Unlimited Part No.
1	9.9	7.4	0.12	7	10,000	15	668-1000-ND	.96	.88	.70	.59	AB1070B
	12	9	0.21	9	8,000	30	668-1001-ND	.96	.88	.70	.59	AB1290B
	15	8.4	0.2	4.1	8,000	15	668-1002-ND	.96	.88	.70	.59	AB1541
	15	8.9	0.21	4.8	7,500	20	668-1003-ND	.96	.88	.70	.59	AB1548B
	20	15	0.1	2.5	80,000	30	668-1004-ND	.96	.88	.70	.59	AB2025B
	20	15	0.28	4	25,000	30	668-1006-ND	.96	.88	.70	.59	AB2040B
	20	15	0.42	6.5	14,000	30	668-1007-ND	.96	.88	.70	.59	AB2065B
	20	15	0.43	7.2	10,000	30	668-1008-ND	.96	.88	.70	.59	AB2072S
	27	14.6	0.53	3.4	13,000	30	668-1012-ND	.96	.88	.70	.59	AB2734B
	27	20	0.23	2	45,000	30	668-1009-ND	.96	.88	.70	.59	AB2720B
	27	20	0.22	2.5	45,000	20	668-1010-ND	.96	.88	.70	.59	AB2725S
	27	20	0.26	2.6	50,000	30	668-1011-ND	.96	.88	.70	.59	AB2726B
	27	20	0.5	4.6	16,000	20	668-1013-ND	.96	.88	.70	.59	AB2746B
	35	25	0.53	2.6	30,000	30	668-1015-ND	1.60	1.45	1.16	.97	AB3526B
	41	32	0.15	1.3	150,000	30	668-1017-ND	1.60	1.45	1.16	.97	AB4113B
	50	44	2.2	1.2	65,000	30	668-1190-ND	2.72	2.48	1.98	1.65	APS4812B-LW100-R
2	20	15	0.21	3.7	20,000	30	668-1005-ND	.96	.88	.70	.59	AB2036AF
	35	25	0.58	2.9	25,000	30	668-1016-ND	1.60	1.45	1.16	.97	AB3529BF
3	34.6	25	0.63	3.2	30,000	30	668-1014-ND	1.60	1.45	1.16	.97	AB3432F

Fig. 1

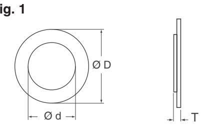

Fig. 2

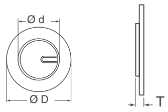

Fig. 3

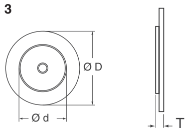

Magnetic Audio Indicators

RoHS COMPLIANT

Dimensions in mm

Fig. 1

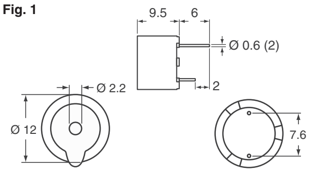

Fig. 2

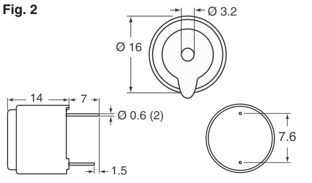

Fig. 3

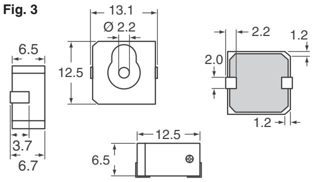

Fig. 4

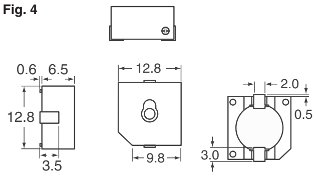

Fig.	Operating Voltage (VDC)	Rated Voltage	Resonant Frequency (kHz)	SPL (dB)	Rated Current (mA)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Projects Unlimited Part No.
1	8.0 ~ 16	12	2.3	85	30	PCB Pin	668-1018-ND	3.49	3.18	2.54	2.11	AI-1223-TWT-12V-R
	3.0 ~ 7.0	5	2.3	85	30	PCB Pin	668-1019-ND	3.49	3.18	2.54	2.11	AI-1223-TWT-5V-R
2	8.0 ~ 15	12	2.2	85	30	PCB Pin	668-1020-ND	3.80	3.45	2.76	2.30	AI-1622-TWT-12V-R
	4.0 ~ 8.0	5	2.2	85	30	PCB Pin	668-1021-ND	3.80	3.45	2.76	2.30	AI-1622-TWT-5V-R
3	8.0 ~ 15	12	2.4	85	30	SMD	668-1022-5-ND	7.07	6.43	5.14	4.27	SMI-1324-TW-12V-R
4	4.0 ~ 7.0	5	2.4	88	30	SMD	668-1023-5-ND	7.07	6.43	5.14	4.27	SMI-1324-TW-5V-2-R

pui audio
A Division of Projects Unlimited

Piezo Audio Indicators

Dim. in mm

Fig. 1

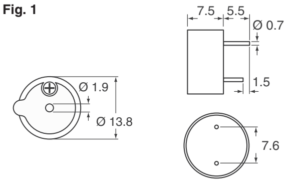

Fig. 2

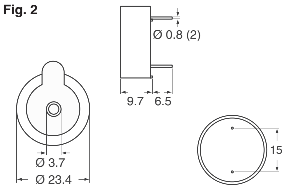

Fig. 3

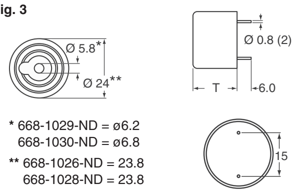

Fig. 4

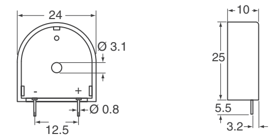

Fig. 5

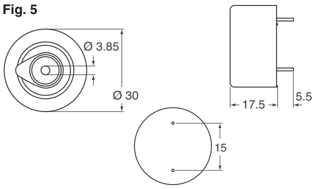

Fig. 6

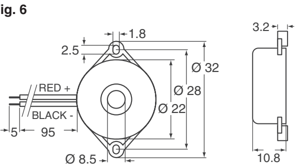

Fig. 7

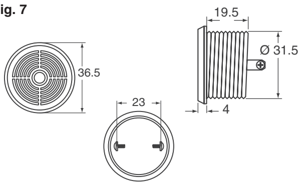

Fig. 8

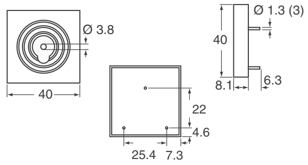

Fig. 9

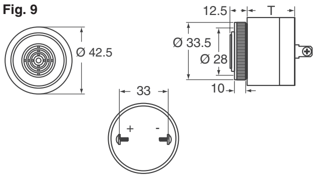

Fig. 10

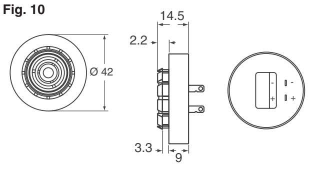

Fig. 11

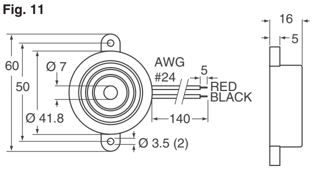

Fig. 12

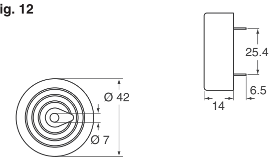

Fig. 13

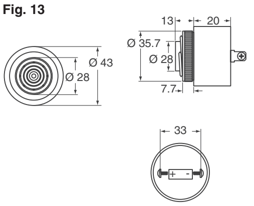

Fig. 14

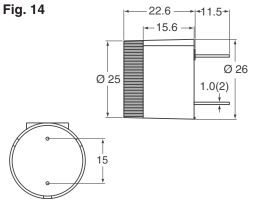

Fig. 15

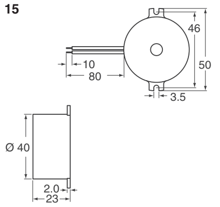

Fig. 16

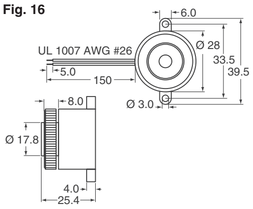

Fig. 17

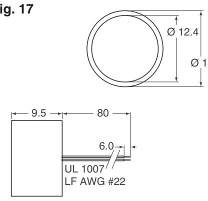

Fig.	Operating Voltage (VDC)	Rated Voltage (VDC)	Resonant Frequency (kHz)	SPL (dB)	Dim. T (mm)	Rated Current (mA)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Projects Unlimited Part No.
1	3 ~ 16	12	4.0	80	—	7	PCB Pin	668-1024-ND	3.49	3.18	2.54	2.11	AI-1440-TWT-12V-R
2	3 ~ 20	12	3.1	85	—	15	PCB Pin	668-1025-ND	4.51	4.10	3.28	2.73	AI-2331-TWT-R
3	3 ~ 20	12	2.9	95	16	8	PCB Pin	668-1026-ND	4.51	4.10	3.28	2.73	AI-2429-TWT-12V-3-R
3	8 ~ 18	12	2.9	95	16	10	PCB Pin	668-1027-ND	4.51	4.10	3.28	2.73	AI-2429-TWT-2-R
3	3 ~ 20	12	2.9	100	16	10	PCB Pin	668-1028-ND	4.51	4.10	3.28	2.73	AI-2429-TWT-R
3	3 ~ 16	12	3.7	100	18	8	PCB Pin	668-1029-ND	4.51	4.10	3.28	2.73	AI-2437-TWT-R
3	8 ~ 18	12	3.8	95	17.2	8	PCB Pin	668-1030-ND	4.51	4.10	3.28	2.73	AI-2438-TT-R
4	3.3 ~ 24	12	3.2	90	—	10	PCB Pin	668-1031-ND	4.68	4.25	3.40	2.83	AI-2532-ST-R
5	3 ~ 28	12	1.8	87	—	13	PCB Pin	668-1032-ND	5.03	4.58	3.66	3.04	AI-3018-TWT-R
6	3 ~ 28	12	4.5	90	—	5	Wire	668-1033-ND	3.69	3.35	2.68	2.23	AI-3245-TF-LW95-R
7	4 ~ 28	12	3.6	90	—	8	Screw	668-1034-ND	16.36	14.88	11.90	9.88	AI-3736-P-C28-R
8	3 ~ 20	12	3.3	95	—	8	PCB Pin	668-1035-ND	9.74	8.85	7.08	5.88	AI-4033-TWT-R
9	7 ~ 18	12	2.9	108	20	16	Screw	668-1036-ND	18.65	16.95	13.56	11.26	AI-4228-P-C18-R
9	60 ~ 250†	220VAC	2.8	94	29.5	18	Screw	668-1037-ND	35.89	32.63	26.10	21.67	AI-4228-P-C250-R
9	6 ~ 28†	12	2.8	90	20	10	Screw	668-1038-ND	35.89	32.63	26.10	21.67	AI-4228-P-C28D-R
9	6 ~ 28	12	2.8	88	20	10	Screw	668-1039-ND	18.65	16.95	13.56	11.26	AI-4228-P-C28-R
9	10 ~ 48	12	2.8	86	20	3	Screw	668-1040-ND	29.07	26.43	21.14	17.55	AI-4228-P-C48-R
9	6 ~ 16	12	2.9	86	20	11	Screw	668-1041-ND	24.67	22.43	17.94	14.90	AI-4228-P-CH16-R
9	30 ~ 120†	110VAC	2.8	92	20	20	Screw	668-1042-ND	35.89	32.63	26.10	21.67	AI-4228-P-FP120-R
9	7 ~ 18	12	2.9	108	20	16	Screw	668-1043-ND	24.67	22.43	17.94	14.90	AI-4228-P-FP18-R
9	6 ~ 28†	12	2.8	90	20	10	Screw	668-1044-ND	35.89	32.63	26.10	21.67	AI-4228-P-FP28D-R
9	7 ~ 18	12	2.9	108	20	16	Screw	668-1045-ND	24.67	22.43	17.94	14.90	AI-4228-P-SP18-R
9	6 ~ 28†	12	2.8	90	20	10	Screw	668-1046-ND	35.89	32.63	26.10	21.67	AI-4228-P-SP28D-R
9	6 ~ 28	12	2.8	88	20	6	Screw	668-1047-ND	24.67	22.43	17.94	14.90	AI-4228-P-SP28-R
10	6 ~ 16	12	2.9	88	—	10	Fast-On	668-1048-ND	24.67	22.43	17.94	14.90	AI-4228-S-FP16-R
11	3 ~ 20	12	2.8	106	—	10	Wire	668-1049-ND	4.76	4.33	3.46	2.88	AI-4228-TF-LW140-3-R
11	3 ~ 28	12	2.8	95	—	7	Wire	668-1050-ND	4.18	3.80	3.04	2.53	AI-4228-TF-LW140-4-R
11	3 ~ 20	12	2.8	95	—	10	Wire	668-1051-ND	7.87	7.15	5.72	4.75	AI-4228-TF-LW140-FP-R
11	3 ~ 20	12	2.8	98	—	10	Wire	668-1052-ND	7.87	7.15	5.72	4.75	AI-4228-TF-SP-LW145-R
12	3 ~ 28	12	2.8	99	—	10	PCB Pin	668-1053-ND	4.32	3.93	3.14	2.61	AI-4228-TWT-R
13	4 ~ 28	12	2.8	97	—	8	Screw	668-1054-ND	11.99	10.90	8.72	7.24	AI-4328-P-C28-2-R
13	4 ~ 28	12	2.9	88	—	6	Screw	668-1189-ND	10.76	8.37	7.17	6.58	AI-4329-P-SP28-R
13	30 ~ 120	110	2.8	98	—	17	Screw	668-1188-ND	14.78	11.50	9.86	9.04	AI-4328-P-C120D-R
14	5 ~ 14	12	2.9	107	—	35	PCB Pin	668-1055-ND	6.35	5.78	4.62	3.84	X-2629-TWT-R
15	1.5 ~ 12	6	3.3	106	—	9	Wire	668-1056-ND	9.19	8.35	6.68	5.55	X-4033-TF-LW80-R
16	4 ~ 28	12	3.5	92	—	5	Wire	668-1057-ND	8.03	7.30	5.84	4.85	XL-2835-TF-FP-LW150-R
16	3 ~ 28	12	3.5	95	—	6	Wire	668-1058-ND	8.03	7.30	5.84	4.85	XL-2835-TF-LW150-R
17	9 ~ 16	12	5.0	95	—	35	Wire	668-1059-ND‡	12.90	11.73	9.38	7.79	AI-1450-TW-LW80-WP-R

† AC/DC Voltage ‡ Waterproof

Audio Transducers

Fig. 1

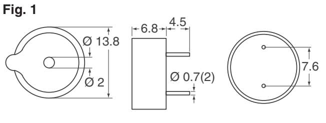

Fig. 2

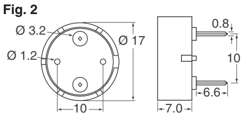

Fig. 3

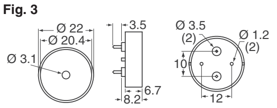

Fig. 4

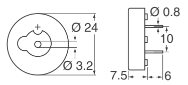

Fig. 5

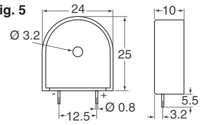

Fig. 6

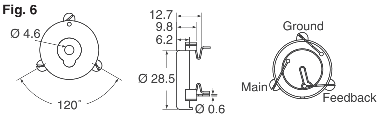

Fig. 7

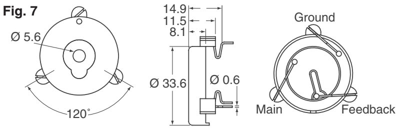

Fig. 8

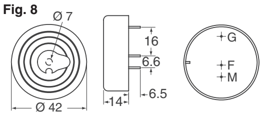

Fig. 9

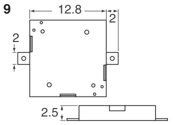

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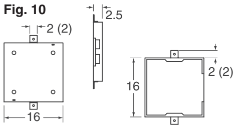

Fig. 11

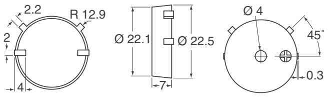

Fig. 12

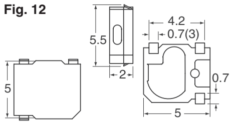

Fig. 13

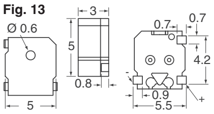

Fig. 14

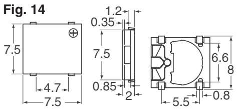

Fig. 15

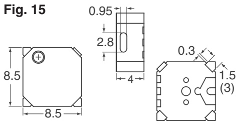

Fig. 16

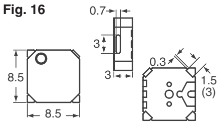

Fig. 17

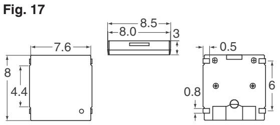

Fig. 18

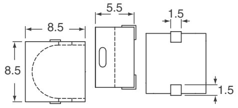

Fig. 19

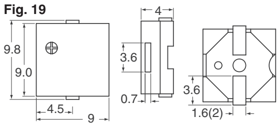

Fig. 20

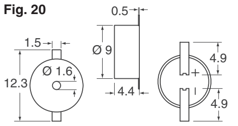

Fig. 21

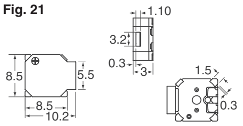

Fig. 22

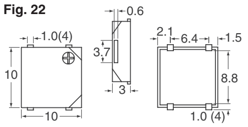

Fig. 23

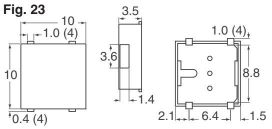

Fig. 24

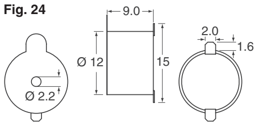

Fig.	Operating Voltage (Vpp)	Resonant Frequency (kHz)	SPL (dB)	Rated Current (mA)	Terminal	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	Projects Unlimited Part No.
						Piezo Audio Transducers — External Drive Type						
1	1 ~ 20	3.8	80	1.0	PCB Pin	668-1101-ND‡	2.12	1.93	1.54	—	—	AT-1438-TWT-R
2	1 ~ 30	4.0	78	1.0	PCB Pin	668-1111-ND‡	1.68	1.34	1.11	—	—	AT-1740-TT-R
3	1 ~ 30	3.5	75	3.0	PCB Pin	668-1102-ND‡	1.79	1.63	1.30	—	—	AT-2235-TT-R
4	1 ~ 30	4.0	80	1.0	PCB Pin	668-1103-ND‡	1.79	1.63	1.30	—	—	AT-2440-TWT-R
5	5 ~ 24	3.2	90	10	PCB Pin	668-1104-ND‡	2.28	2.08	1.66	—	—	AT-2532-ST-R
6	3 ~ 28	3.0	93	8.0	PCB Pin	668-1105-ND‡	2.28	2.08	1.66	—	—	AT-2830-TWT-R
7	3 ~ 28	2.5	85	7.0	PCB Pin	668-1106-ND‡	4.59	4.18	3.34	—	—	AT-3425-TWT-R
8	3 ~ 28	2.8	92	7.0	PCB Pin	668-1107-ND‡	2.86	2.60	2.08	—	—	AT-4228-TWT-F-R
9	1 ~ 25	4.1	75	5.0	SMD	668-1108-1-ND	3.84	3.20	2.56	1,000	1856.00	SMT-1341-T-R
10	1 ~ 25	4.0	70	3.0	SMD	668-1110-1-ND	2.61	2.18	1.74	800	1009.60	SMT-1640-S-R
11	1 ~ 30	4.0	90	3.0	SMD	668-1109-1-ND	3.21	2.68	2.14	300	513.60	SMT-2240-TW-R
						Magnetic Audio Transducers — External Drive Type						
12	2 ~ 4	4.0	78	100	SMD	668-1060-1-ND	3.51	2.93	2.34	2,000	1697.00/M	SMT-0540-S-R
12	2 ~ 4	4.0	78	100	SMD	668-1192-1-ND▲	3.99	3.33	2.66	2,000	1929.00/M	SMT-0540-T-6-R
13	2 ~ 4	4.0	78	100	SMD	668-1061-1-ND	3.66	3.05	2.44	2,000	1769.00/M	SMT-0540-T-2-R
14	2 ~ 5	2.7	85	120	SMD	668-1062-1-ND	4.47	3.73	2.98	1,000	2161.00	SMT-0727-S-R
15	4 ~ 6	2.0	70	70	SMD	668-1063-1-ND	4.47	3.73	2.98	1,000	2161.00	SMT-0820-S-R
15	2.5 ~ 4.5	2.1	87	90	SMD	668-1064-1-ND	4.47	3.73	2.98	1,000	2161.00	SMT-0821-S-R
15	2 ~ 5	2.1	87	90	SMD	668-1065-1-ND▲	4.47	3.73	2.98	1,000	2161.00	SMT-0821-T-R
15	3 ~ 7	2.3	87	70	SMD	668-1066-1-ND	4.47	3.73	2.98	1,000	2161.00	SMT-0823-S-R
15	2.5 ~ 4.5	2.5	87	90	SMD	668-1067-1-ND	4.47	3.73	2.98	1,000	2161.00	SMT-0825-S-2-R
15	2.5 ~ 4.5	2.5	87	90	SMD	668-1070-1-ND▲	4.47	3.73	2.98	1,000	2161.00	SMT-0825-T-R
15	2.5 ~ 4.5	2.7	87	90	SMD	668-1072-1-ND	4.47	3.73	2.98	1,000	2161.00	SMT-0827-S-2-R
15	2 ~ 5	3.6	90	90	SMD	668-1075-1-ND	4.47	3.73	2.98	1,000	2161.00	SMT-0836-S-R
16	2.5 ~ 4.5	2.5	85	90	SMD	668-1068-1-ND	4.47	3.73	2.98	1,000	2161.00	SMT-0825-S-4-R
16	2.5 ~ 4.5	2.7	85	90	SMD	668-1069-1-ND▲	4.47	3.73	2.98	1,000	2161.00	SMT-0825-T-2-R
16	2.5 ~ 4.5	2.7	85	90	SMD	668-1073-1-ND	4.47	3.73	2.98	1,000	2161.00	SMT-0827-S-3-R
17	2.5 ~ 4.5	2.63	90	90	SMD	668-1071-1-ND	4.47	3.73	2.98	1,000	2161.00	SMT-0826-S-R
17	2.5 ~ 4.5	2.7	85	100	SMD	668-1074-1-ND	4.47	3.73	2.98	1,000	2161.00	SMT-0827-S-R
18	2.5 ~ 4.5	2.73	85	60	SMD	668-1193-1-ND	4.47	3.73	2.98	600	1296.60	SMT-0827-SW-3V-R
18	4 ~ 6	2.73	85	80	SMD	668-1194-1-ND	4.47	3.73	2.98	600	1296.60	SMT-0827-SW-5V-R
19	1 ~ 2	2.73	85	100	SMD	668-1076-1-ND	4.92	4.10	3.28	1,000	2378.00	SMT-0927-S-3-R
19	2 ~ 4	2.73	85	100	SMD	668-1077-1-ND	4.92	4.10	3.28	1,000	2378.00	SMT-0927-S-4-R
19	3 ~ 7	2.73	85	80	SMD	668-1078-1-ND	4.92	4.10	3.28	1,000	2378.00	SMT-0927-S-5-R
20	2 ~ 4	2.73	85	80	SMD	668-1079-1-ND	4.92	4.10	3.28	750	1783.50	SMT-0927-T-R
21	2.5 ~ 4.5	2.5	85	90	SMD	668-1080-1-ND	4.17	3.48	2.78	1,000	2016.00	SMT-1025-S-R
21	2.5 ~ 4.5	2.7	87	90	SMD	668-1081-1-ND	4.17	3.48	2.78	1,000	2016.00	SMT-1027-S-2-R
22	1 ~ 2	2.7	85	80	SMD	668-1083-1-ND	4.17	3.48	2.78	1,000	2016.00	SMT-1027-S-R
22	2.5 ~ 4.5	2.7	85	80	SMD	668-1082-1-ND	4.17	3.48	2.78	1,000	2016.00	SMT-1027-S-3-R
23	3 ~ 4.6	2.83	93	100	SMD	668-1084-1-ND	4.17	3.48	2.78	1,000	2016.00	SMT-1028-S-R
23	3 ~ 4.6	2.83	90	100	SMD	668-1085-1-ND▲	4.17	3.48	2.78	1,000	2016.00	SMT-1028-T-R
24	2 ~ 5	2.0	80	35	SMD	668-1086-5-ND§	3.55	3.23	2.58	—	—	SMT-1220-TW-R
24	1 ~ 3	2.4	80	40	SMD	668-1087-5-ND§	3.55	3.23	2.58	—	—	SMT-1224-TW-R
25	1 ~ 3	2.4	80	30	SMD	668-1089-5-ND§	3.52	3.20	2.56	—	—	SMT-1324-TW-1V-R
25	4 ~ 8	2.4	85	40	SMD	668-1090-5-ND§	3.52	3.20	2.56	—	—	SMT-1324-TW-5V-R
25	8 ~ 16	2.4	85	40	SMD	668-1088-5-ND§	3.52	3.20	2.56	—	—	SMT-1324-TW-12V-R
26	4 ~ 8	2.4	85	40	SMD	668-1091-5-ND§	3.52	3.20	2.56	—	—	SMT-1324-TW-R
27	1.2 ~ 1.7	2.7	85	80	SMD	668-1092-1-ND	5.97	4.98	3.98	1,000	2886.00	SMT-1427-S-2-R
27	3 ~ 4.5	2.7	87	90	SMD	668-1093-1-ND	5.97	4.98	3.98	1,000	2886.00	SMT-1427-S-3-R
27	4 ~ 7	2.7	87	90	SMD	668-1094-1-ND	5.97	4.98	3.98	1,000	2886.00	SMT-1427-S-4-R
28	3 ~ 7	2.7	85	80	SMD	668-1095-1-ND	5.97	4.98	3.98	1,000	2886.00	SMT-1427-S-R
28	3 ~ 7	2.7	85	80	SMD	668-1096-1-ND▲	5.97	4.98	3.98	1,000	2886.00	SMT-1427-T-R
29	1 ~ 3	2.048	85	10	PCB Pin	668-1097-ND‡	1.07	.98	.78	—	—	AT-1220-TT-R
30	3 ~ 8	2.4	85	40	PCB Pin	668-1098-ND‡	1.43	1.30	1.04	—	—	AT-1224-TWT-R
30	1 ~ 1.7	2.8	85	40	PCB Pin	668-1099-ND‡	1.43	1.30	1.04	—	—	AT-1228-TT-R
31	4 ~ 8	2.048	85	40	PCB Pin	668-1100-ND‡	1.84	1.68	1.34	—	—	AT-1620-TWT-R

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Tray § Tube ▲ Top Sound Port

Fig. 25

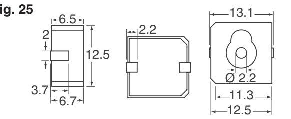

Fig. 26

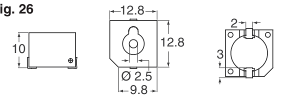

Fig. 27

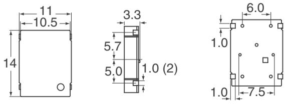

Fig. 28

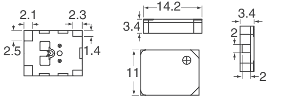

Fig. 29

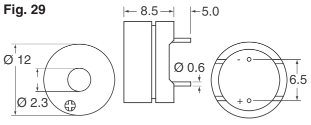

Fig. 30

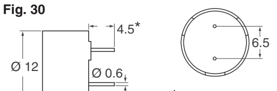

* 668-1099-ND = 3.3
** 668-1099-ND = 10

Fig. 31

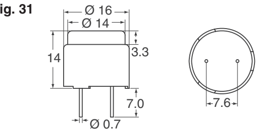

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Soberton Inc. Magnetic Audio Transducers

Fig. 1

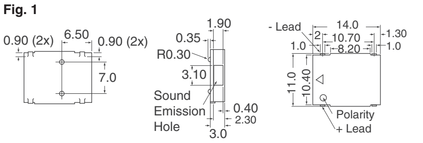

Fig. 2

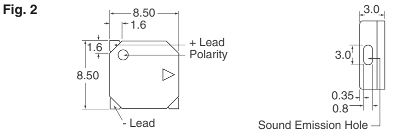

Fig. 3

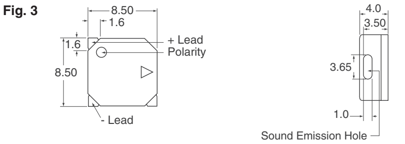

Fig. 4

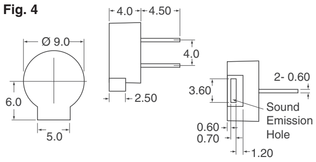

Fig. 5

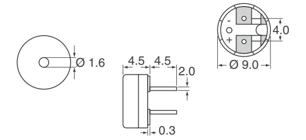

Fig. 6

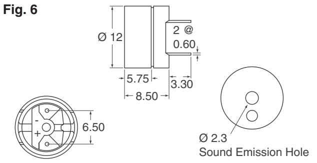

Fig. 7

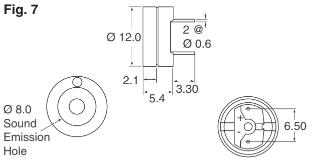

Fig. 8

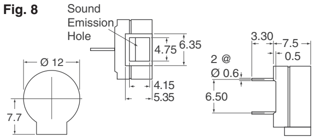

Fig. 9

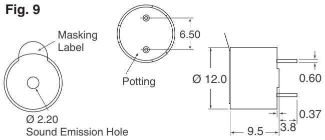

Fig. 10

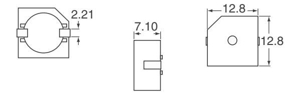

Fig. 11

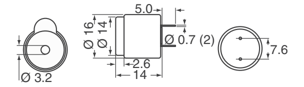

Fig. 12

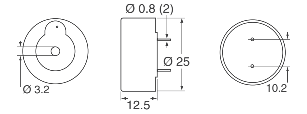

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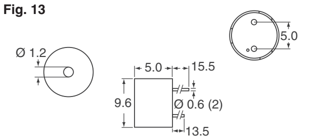

Fig. 14

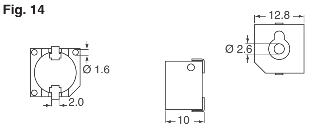

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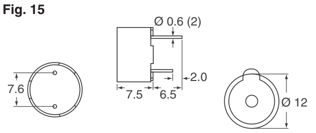

Fig. 16

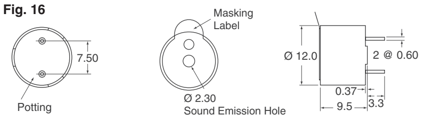

Fig. 17

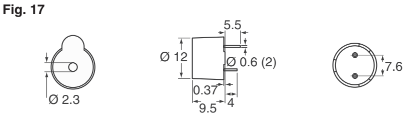

Fig. 18

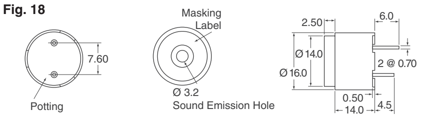

Fig.	Rated Frequency (kHz)	Operating Voltage (V) o-p	Sound Pressure Level	Current Consumption (mA)	Operating Temperature (°C)	Terminal	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Tape & Reel† Qty.	Pricing	Soberton Part No.
Reflowable SMD Type — External Drive														
1	2.73	2 ~ 4	87dB min. @ 2.73kHz	70 max.	-30 ~ 85	SMD	433-1001-1-ND	3.12	2.60	2.08	1.73	1,000	1463.28	ST-01BH
2	2.30	2 ~ 4	87dB min. @ 2.30kHz	70 max.	-30 ~ 85	SMD	433-1005-1-ND◆	3.12	2.60	2.08	1.73	1,000	1463.28	ST-03BL
	2.73	2 ~ 4	87dB min. @ 2.73kHz	70 max.	-30 ~ 85	SMD	433-1006-1-ND◆	3.12	2.60	2.08	1.73	1,000	1463.28	ST-03BH
	2.73	4 ~ 6	87dB min. @ 2.73kHz	70 max.	-30 ~ 85	SMD	433-1007-1-ND◆	3.12	2.60	2.08	1.73	1,000	1463.28	ST-03CH
3	2.73	2 ~ 4	87dB min. @ 2.73kHz	70 max.	-30 ~ 85	SMD	433-1009-1-ND◆	3.12	2.60	2.08	1.73	1,000	1463.28	ST-04BH
	3.20	2 ~ 4	87dB min. @ 3.20kHz	70 max.	-30 ~ 85	SMD	433-1010-1-ND◆	3.12	2.60	2.08	1.73	1,000	1463.28	ST-04BT
	2.73	4 ~ 6	87dB min. @ 2.73kHz	70 max.	-30 ~ 85	SMD	433-1011-1-ND◆	3.12	2.60	2.08	1.73	1,000	1463.28	ST-04CH
Non-Washable Type — External Drive — RoHS Compliant														
4	2.73	2 ~ 4	85dB min. @ 2.73kHz	80 max.	-20 ~ 60	PCB	433-1013-ND‡	1.27	.79	.58	.51	—	—	GT-0930RP2
	3.10	4 ~ 6	85dB min. @ 3.10kHz	80 max.	-20 ~ 60	PCB	433-1014-ND‡	1.27	.79	.58	.51	—	—	GT-0950RP3
5	2.73	1 ~ 3	85dB min. @ 2.73kHz	80 max.	-20 ~ 60	PCB	433-1031-ND	.98	.82	.66	.55	—	—	GT-0901A
	2.73	2 ~ 4	85dB min. @ 2.73kHz	80 max.	-20 ~ 60	PCB	433-1032-1-ND	.98	.82	.66	.55	—	—	GT-0903A
	2.73	4 ~ 6	85dB min. @ 2.73kHz	80 max.	-20 ~ 60	PCB	433-1033-ND‡	.99	.83	.66	.55	—	—	GT-0905A
6	2.048	1.5 ~ 2	80dB min. @ 2.048kHz	10 max.	-20 ~ 60	PCB	433-1020-ND‡	.92	.54	.37	.32	—	—	GT-111P
7	2.048	1 ~ 4	70dB min. @ 2.048kHz	15 max.	-20 ~ 60	PCB	433-1023-ND‡	.92	.54	.37	.32	—	—	GT-111PS
8	2.73	1 ~ 2	87dB min. @ 2.73kHz	70 max.	-20 ~ 60	PCB	433-1025-ND‡	.92	.54	.37	.32	—	—	GT-12QP-3
Washable Type — External Drive — RoHS Compliant														
9	2.3 ±.2	1 ~ 2	85dB min. @ 2.30kHz	35 max.	-30 ~ 85	PCB	433-1027-ND‡	.87	.51	.35	.30	—	—	WT-1201
	2.3 ±.2	4 ~ 6	85dB min. @ 2.40kHz	40 max.	-30 ~ 85	PCB	433-1028-ND‡	.87	.51	.35	.30	—	—	WT-1205
10	2.4 ±.2	3 ~ 7	90dB min. @ 2.40kHz	40 max.	-30 ~ 85	SMD	433-1034-1-ND	2.61	2.18	1.74	—	320	417.60	WST-1307
	2.4 ±.2	3 ~ 7	90dB min. @ 2.40kHz	40 max.	-30 ~ 85	SMD	433-1035-1-ND	2.70	1.83	1.48	—	450	587.25	WST-1310
11	2.048 ±.2	1 ~ 2	80dB min. @ 2.048kHz	12 max.	-20 ~ 60	PCB	433-1036-ND‡	2.69	1.83	1.48	1.31	—	—	WT-1601
	2.048 ±.2	4 ~ 8	85dB min. @ 2.048kHz	40 max.	-20 ~ 60	PCB	433-1037-ND‡	2.69	1.83	1.48	1.31	—	—	WT-1606
	2.048 ±.2	9 ~ 15	85dB min. @ 2.048kHz	40 max.	-20 ~ 60	PCB	433-1038-ND‡	2.69	1.83	1.48	1.31	—	—	WT-1612
12	730Hz	3 ~ 7	85dB min. @ 730Hz	80 max.	-20 ~ 60	PCB	433-1039-ND‡	3.58	2.47	2.02	1.79	—	—	WT-2505
	1.0~1.5	3 ~ 7	85dB min. @ 1.0kHz	70 max.	-25 ~ 70	PCB	433-1040-ND‡	3.65	2.52	2.06	1.83	—	—	WT-2506
	1.0~1.5	8 ~ 14	85dB min. @ 1.0kHz	55 max.	-25 ~ 70	PCB	433-1041-ND‡	3.65	2.52	2.06	1.83	—	—	WT-2512
Washable Type — Self-Contained Drive — RoHS Compliant														
13	2.73	4 ~ 6	83dB min. @ 2.73kHz	30 max.	-20 ~ 60	PCB	433-1042-ND‡	3.09	2.10	1.65	1.50	—	—	WST-0905S
14	2.4 ±.4	1.4 ~ 3	>75dB min. @ 2.40kHz	<20	-20 ~ 70	SMD	433-1043-1-ND	3.06	2.04	1.67	—	320	489.60	WST-1310S -1
	2.3 ±.3	4 ~ 7	>85dB min. @ 2.30kHz	<30	-20 ~ 70	SMD	433-1044-1-ND	3.06	2.04	1.67	—	320	489.60	WST-1310S -2
	2.3 ±.3	8 ~ 15	>85dB min. @ 2.30kHz	<30	-20 ~ 70	SMD	433-1045-1-ND	3.06	2.04	1.67	—	—	—	WST-1310S -3
15	3.10	1.4 ~ 2	>75dB @ 3.10kHz	<25	-20 ~ 70	PCB	433-1079-ND‡	1.81	1.18	.90	.80	—	—	WST-1201BX
	2.3 ±.5	1.4 ~ 2	>75dB @ 2.30kHz	<25	-20 ~ 70	PCB	433-1046-ND‡	1.82	1.18	.91	.80	—	—	WST-1201UX
	3.10	2 ~ 5	>82dB @ 3.10kHz	<30	-20 ~ 70	PCB	433-1080-ND‡	1.81	1.18	.90	.80	—	—	WST-1203-BX
	2.3 ±.5	2 ~ 5	>82dB @ 2.30kHz	<30	-20 ~ 70	PCB	433-1047-ND‡	1.82	1.17	.90	.80	—	—	WST-1203UX
	3.10	3 ~ 7	>83dB @ 3.10kHz	<30	-20 ~ 70	PCB	433-1081-ND‡	1.81	1.18	.90	.80	—	—	WST-1206BX
	3.10	9 ~ 15	>83dB @ 3.10kHz	<30	-20 ~ 70	PCB	433-1082-ND‡	1.81	1.18	.90	.80	—	—	WST-1212BX
	2.3 ±.4	9 ~ 15	>83dB @ 2.30kHz	<30	-20 ~ 70	PCB	433-1049-ND‡	1.51	1.04	.85	.76	—	—	WST-1212UX
16	2.3 ±.2	4 ~ 6	85dB min. @ 2.30kHz	30 max.	-20 ~ 60	PCB	433-1029-ND‡	1.81	1.18	.90	.80	—	—	WST-1205S
17	2.3 ±.2	8 ~ 16	85dB min. @ 2.30kHz	30 max.	-20 ~ 60	PCB	433-1050-ND‡	1.82	1.17	.90	.80	—	—	WST-1212S
11	2.3 ±.2	4 ~ 8	85dB min. @ 2.30kHz	30 max.	-20 ~ 60	PCB	433-1051-ND‡	3.32	2.22	1.81	1.61	—	—	WST-1606S
18	2.2 ±.3	8 ~ 16	85dB min. @ 2.20kHz	30 max.	-20 ~ 60	PCB	433-1030-ND‡	2.30	1.50	1.15	1.01	—	—	WST-1612S

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk

Soberton Inc. Piezoelectric Buzzers

Fig. 1

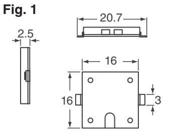

Fig. 2

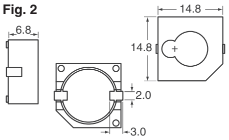

Fig. 3

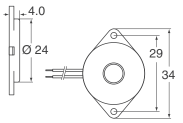

Fig. 4

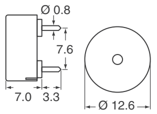

Fig. 5

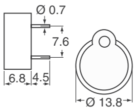

Fig. 6

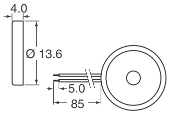

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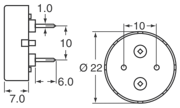

Fig. 8

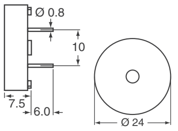

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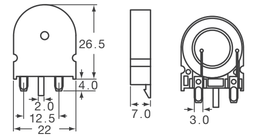

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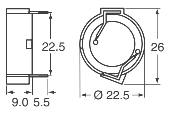

Fig. 11

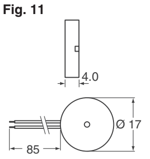

Fig. 12

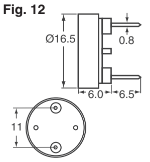

Fig. 13

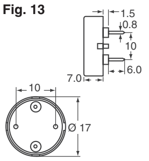

Fig. 14

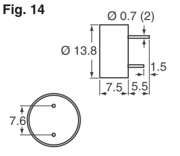

Fig. 15

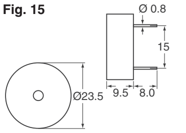

Fig. 16

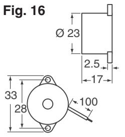

Fig. 17

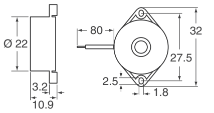

Fig. 18

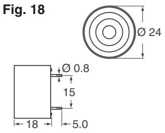

Fig. 19

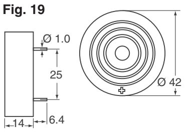

Fig. 20

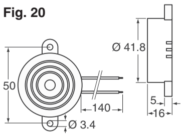

Fig. 21

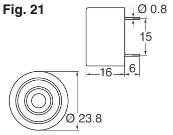

Fig.	Rated Frequency (kHz)	Operating Voltage (Vpp)	Sound Pressure Level dB @ kHz	Current Consumption (mA)	Operating Temperature (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Tape & Reel† Pricing	Soberton Part No.
External Drive Circuit													
1	4.0 ±0.5	1-25	≥75 @ 4.0	≤1	-20 ~ 70	SMD	433-1052-ND	3.45	2.30	1.88	1.67	—	PT-1625
2	5.0 ±0.5	1-20	≥85 @ 5.0	≤31	-20 ~ 70	SMD	433-1053-1-ND‡	3.71	2.56	2.09	—	480.00/250	PT-1507
3	5.5 ±0.7	1-30	≥90 @ 5.5	≤8	-20 ~ 70	Wire	433-1054-ND	.97	.58	.42	.36	—	PT-2404
4	4.0 ±0.5	1-20	≥70 @ 4.0	≤1	-20 ~ 60	PCB	433-1055-ND	1.04	.65	.49	.43	—	PT-1307
5	4.0 ±0.5	1-20	≥80 @ 4.0	≤1	-20 ~ 70	PCB	433-1057-ND	1.82	1.18	.91	.80	—	PT-1407
6	4.8 ±0.3	1-30	≥80 @ 4.8	≤3	-20 ~ 60	Wire	433-1056-ND	1.82	1.18	.91	.80	—	PT-1404
7	4.0 ±0.5	1-30	≥85 @ 4.0	≤3	-20 ~ 70	PCB	433-1058-ND	1.59	.99	.76	.67	—	PT-2207
8	4.0 ±0.5	1-30	≥90 @ 4.0	≤1	-20 ~ 70	PCB	433-1059-ND	2.54	1.72	1.33	1.17	—	PT-2408
9	2.0 ±0.5	1-30	≥70 @ 2.0	≤1	-20 ~ 70	PCB	433-1060-ND	1.29	.80	.60	.53	—	PT-2707
10	2.048 ±0.5	1-30	≥85 @ 2.048	≤3	-20 ~ 70	PCB	433-1061-ND	1.89	1.22	.94	.83	—	PT-2309
11	4.0 ±0.3	1-30	≥78 @ 4.0	≤1	-20 ~ 60	Wire	433-1062-ND	1.52	.99	.72	.64	—	PT-1704
12	4.0 ±0.5	1-20	≥78 @ 4.0	≤1	-20 ~ 60	PCB	433-1063-ND	1.52	.99	.72	.64	—	PT-1706
13	4.0 ±0.5	1-20	≥78 @ 4.0	≤1	-20 ~ 60	PCB	433-1064-ND	1.52	.99	.72	.64	—	PT-1707
Drive Circuit Built-in													
14	4.0 ±0.5	3-16	≥80 @ 4.0	≤7	-20 ~ 70	PCB	433-1065-ND	2.86	2.39	1.91	1.59	—	PB-1408-1
14	4.8 ±0.4	3-16	≥85 @ 4.8	≤10	-20 ~ 70	PCB	433-1066-ND	3.32	2.16	1.66	1.47	—	PB-1408-2
15	3.4 ±0.5	3-20	≥86 @ 3.4	≤15	-20 ~ 70	PCB	433-1067-ND	4.25	2.97	2.44	2.17	—	PB-2410-1
15	3.4 ±0.5	3-20	≥95 @ 3.4	≤10	-20 ~ 70	PCB	433-1068-ND	4.25	2.97	2.44	2.17	—	PB-2410-2
16	3.7 ±0.5	3-16	≥90 @ 3.7	≤8	-20 ~ 60	Wire	433-1069-ND	4.15	2.87	2.34	2.08	—	PB-2317
17	4.5 ±0.5	3-28	≥85 @ 4.5	≤8	-20 ~ 70	Wire	433-1070-ND	2.96	2.01	1.58	1.44	—	PB-2211
18	3.7 ±0.5	3-20	≥90 @ 3.7	≤8	-20 ~ 60	PCB	433-1071-ND	4.50	3.14	2.57	2.29	—	PB-2418-1
18	3.7 ±0.5	3-20	≥90 @ 3.7	≤8	-20 ~ 60	PCB	433-1072-ND	4.50	3.14	2.57	2.29	—	PB-2418-2
19	2.8 ±0.5	3-28	≥90 @ 2.8	≤8	-20 ~ 60	PCB	433-1073-ND	6.18	4.70	3.84	3.47	—	PB-4314
20	2.8 ±0.5	3-28	≥90 @ 2.8	≤7	-20 ~ 60	Wire	433-1074-ND	5.30	3.88	3.17	2.86	—	PB-4216-1
20	2.8 ±0.5	13-20	≥90 @ 2.8	≤10	-20 ~ 60	Wire	433-1075-ND	5.30	3.88	3.17	2.86	—	PB-4216-2
21	2.8 ±0.5	3-20	≥85 @ 2.8	≤8	-20 ~ 60	PCB	433-1076-ND	4.50	3.14	2.57	2.29	—	PB-2416-1
21	2.8 ±0.5	3-20	≥85 @ 2.8	≤8	-20 ~ 85	PCB	433-1077-ND	4.50	3.14	2.57	2.29	—	PB-2416-2
21	2.8 ±0.5	3-20	≥90 @ 2.8	≤10	-20 ~ 60	PCB	433-1078-ND	4.50	3.14	2.57	2.29	—	PB-2416-3

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape

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muRata Innovator in Electronics Piezoelectric Buzzers

Fig. 1

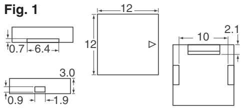

Fig. 2

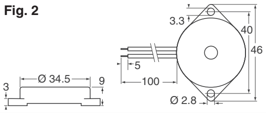

Fig. 3

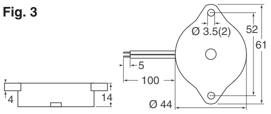

Fig. 4

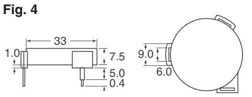

Fig. 5

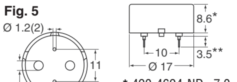

* 490-4694-ND= 7.0
** 490-4694-ND= 6.5

Fig. 6

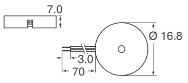

Fig. 7

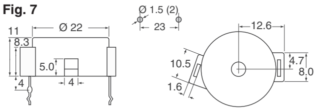

Fig. 8

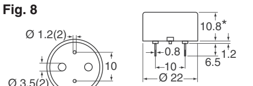

* 490-4692-ND= 7.0

Fig. 9

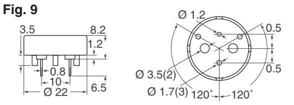

Fig. 10

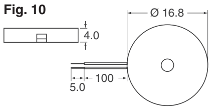

Fig. 11

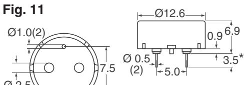

* 490-4698-ND= 22.0

Fig. 12

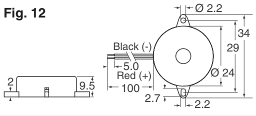

Fig. 13

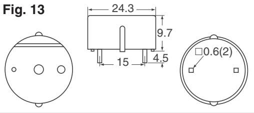

Fig. 14

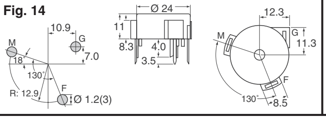

Fig. 15

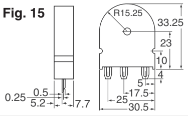

Fig.	Resonant Frequency (kHz)	Operating Voltage Maximum	Minimum SPL (dB)	Capacitance (pF)	Operating Temperature (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
1	4.0	25Vp-p	75	—	-20 ~ 70	SMD	490-4683-1-ND‡	1.82	1.58	1.46	PKLCS1212E4001-R1
							490-4683-2-ND†		849.00/1,000		PKLCS1212E4001-R1
2	1.1	40Vp-p	70	40,000	-20 ~ 70	Wire	490-4684-ND	1.92	1.59	1.24	PKM34EWH1101C
	1.2	60Vp-p	70	32,000	-20 ~ 70	Wire	490-4685-ND	1.88	1.56	1.21	PKM34EWH1201C

‡ Cut Tape † Tape and Reel

(Continued)

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Piezoelectric Buzzers *(Cont.)*

Fig.	Resonant Frequency (kHz)	Operating Voltage Maximum	Minimum SPL (dB)	Capacitance (pF)	Operating Temperature (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
3	1.0	30Vp-p	75	68,000	-20 ~ 70	Wire	490-4686-ND	2.82	2.34	1.82	PKM44EWH1001C
4	1.2	40Vp-p	68	40,000	-20 ~ 70	PCB Pin	490-4687-ND	2.92	2.42	1.88	PKM33EPH1201C
5	2.0	25Vp-p	70	34,000	-20 ~ 70	PCB Pin	490-4688-ND	1.23	1.02	.80	PKM17EPP-2002-B0
	4.0	25Vp-p	72	7,000	-20 ~ 70	PCB Pin	490-4694-ND	.88	.73	.57	PKM17EPPH4001-B0
6	2.0	7.0Vp-p	72	40,000	-20 ~ 70	Wire	490-4689-ND	2.97	2.46	1.91	PKM17EWH2001
7	2.0	25Vp-p	75	17,000	-20 ~ 70	PCB Pin	490-4690-ND	1.38	1.15	.89	PKM22EPH2001
8	2.0	25Vp-p	70	19,000	-20 ~ 70	PCB Pin	490-4691-ND	.98	.82	.63	PKM22EPPH2001-B0
	4.0	25Vp-p	75	12,000	-20 ~ 70	PCB Pin	490-4692-ND	1.04	.86	.67	PKM22EPPH4001-B0
	4.0	25Vp-p	85	12,000	-20 ~ 70	PCB Pin	490-4695-ND	1.12	.94	.73	PKM22EPPH4007-B0
9	4.0	25Vp-p	75	12,000	-20 ~ 70	PCB Pin	490-4693-ND	1.04	.87	.67	PKM22EPPH4005-B0
10	4.0	25Vp-p	75	9,500	-20 ~ 70	Wire	490-4696-ND	1.51	1.26	.98	PKM17EWH4000
11	4.0	30Vp-p	70	5,500	-40 ~ 85	PCB Pin	490-4697-ND	.64	.53	.41	PKM13EPYH4002-B0
	4.0	30Vp-p	70	5,500	-40 ~ 85	PCB Pin	490-4698-ND	.53	.45	.35	PKM13EPYH4000-A0
12	3.3	20VDC	80	—	-20 ~ 70	Wire	490-4701-ND	5.64	4.68	3.63	PKB24SWH3301
13	3.6	15VDC	90	—	-20 ~ 70	PCB Pin	490-4702-ND	3.86	3.20	2.49	PKB24SPCH3601-B0
14	3.8	20VDC	90	—	-20 ~ 70	PCB Pin	490-4703-ND	1.62	1.34	1.04	PKM24SPH3805
15	2.5	20VDC	75	—	-20 ~ 70	PCB Pin	490-4704-ND	3.15	2.61	2.03	PKM30SPTH2501-B0

NEW! Piezo Transducers

Fig. 1

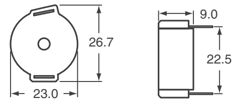

Fig. 2

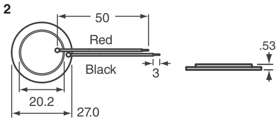

Fig. 3

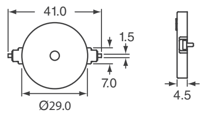

Fig. 4

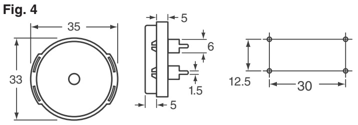

Fig.	Resonant Frequency (kHz)	Input Voltage Maximum	Minimum SPL (dB)	Resonant Impedance (Ω)	Static Capacitance (pF)	Digi-Key Part No.	Price Each 1	10	100	AVX Part No.
1	2.0	30Vp-p	69	—	24,000	478-4762-ND	1.70	1.15	.89	KBS-20DB-2P-10
	2.0	30Vp-p	75	—	24,000	478-4763-ND	.98	.66	.51	KBS-20DB-2P-9
2	2.0	30Vp-p	70	—	48,000	478-4766-ND	2.15	1.46	1.13	KBT-33SB-2T-2
3	3.0	30Vp-p	75	—	20,000	478-4765-ND	1.43	.97	.75	KBS-27DB-3T
4	4.6	30Vp-p	—	1,500	20,000	478-4764-ND	.98	.66	.51	KBS-27DA-5C-105

Electret Condenser Microphone and Holders

Electret condenser microphones consist of a high voltage internal electret membrane, a metal electrode and a field effect transistor (FET). They are manufactured in a quality controlled facility in China. All microphones are produced with Japanese made FETs to ensure high quality and reliability. This along with 100% testing ensure a zero defect rate. Horn's commitment to quality has earned them approval from a famous global manufacturer of mobile phones. Horn's ECMs utilize a highly efficient, low impedance design, available in omni directional, unidirectional and noise canceling versions. All microphones are non-washable.

Fig. 1

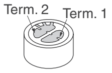

Fig. 2

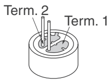

Fig. 3

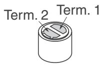

Fig. 4

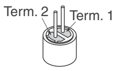

Fig. 5

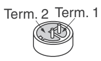

Fig. 6

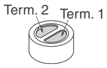

Fig. 7

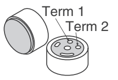

Fig. 8

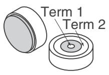

Fig. 9

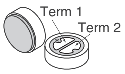

Fig. 10 SMT

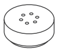

Fig. 11

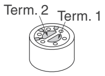

Fig. 12

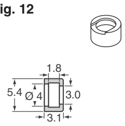

Fig. 13

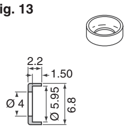

Fig. 14

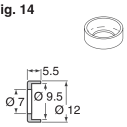

Fig. 15

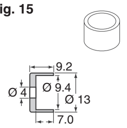

Fig. 16

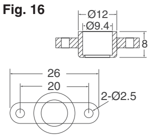

Fig.	Type	Physical Size (mm)	Sensitivity (0dB = 1V/Pa)	Operating Voltage Standard	Current Consumption Maximum	S/N Ratio	Digi-Key Part No.	Price Each 1	10	100	Horn Part No.
1	Omni–directional	ø9.7 x 4.5	-44dB ±2dB	4.5V	0.50mA	>60dB	359-1047-ND◆	.33	.28	.18	EM9745-442-G
		ø9.4 x 6.5	-44dB ±2dB	4.5V	0.50mA	>60dB	359-1049-ND◆	.35	.29	.19	EM9465-442-G
2		ø9.7 x 6.5	-42dB ±2dB	4.5V	0.50mA	>60dB	359-1043-ND◆	.29	.25	.16	EM9765P-422-G
		ø9.7 x 4.5	-44dB ±2dB	4.5V	0.45mA	>60dB	359-1048-ND◆	.36	.30	.20	EM9745P-442-G
3		ø6.0 x 5.0	-44dB ±3dB	4.5V	0.50mA	>40dB	359-1012-ND	.37	.32	.20	EM6050-443
		ø6.0 x 5.0	-44dB ±3dB	4.5V	0.50mA	>40dB	359-1053-ND◆	.37	.32	.20	EM6050-443-G
		ø6.0 x 3.5	-38dB ±3dB	4.5V	0.50mA	>40dB	359-1058-ND◆	.91	.76	.49	EM6035-383-G
		ø6.0 x 3.5	-40dB ±3dB	4.5V	0.50mA	>40dB	359-1059-ND◆	.91	.76	.49	EM6035-403-G
		ø6.0 x 2.7	-42dB ±3dB	4.5V	0.50mA	>40dB	359-1019-ND	.91	.76	.49	EM6027-423
		ø6.0 x 2.7	-42dB ±3dB	4.5V	0.50mA	>40dB	359-1060-ND◆	.91	.76	.49	EM6027-423-G
		ø6.0 x 2.2	-40dB ±2dB	2.0V	0.50mA	>60dB	359-1023-ND	1.12	.94	.60	EM6022-40BC10&33
		ø6.0 x 2.2	-40dB ±2dB	2.0V	0.50mA	>60dB	359-1063-ND◆	1.12	.94	.60	EM6022-40BC10&33-G
		ø6.0 x 1.5	-44dB ±2dB	2.0V	0.50mA	>60dB	359-1027-ND	1.66	1.38	.89	EM6015-44BC10&33
		ø6.0 x 1.5	-44dB ±2dB	2.0V	0.50mA	>60dB	359-1067-ND◆	1.66	1.38	.89	EM6015-44BC10&33-G
		ø6.0 x 1.8	-44dB ±2dB	2.0V	0.50mA	>60dB	359-1029-ND	1.50	1.25	.80	EM6018-44BC10&33
		ø6.0 x 1.8	-44dB ±2dB	2.0V	0.50mA	>60dB	359-1069-ND◆	1.50	1.25	.80	EM6018-44BC10&33-G
		ø6.0 x 1.3	-48dB ±2dB	2.0V	0.50mA	>60dB	359-1030-ND	1.76	1.47	.95	EM6013-48BC10&33
		ø6.0 x 1.3	-48dB ±2dB	2.0V	0.50mA	>60dB	359-1070-ND◆	1.76	1.47	.95	EM6013-48BC10&33-G
4		ø6.0 x 1.1	-46dB ±4dB	2.0V	0.50mA	>58dB	359-1035-ND	2.24	1.87	1.20	EM6011-46FC10&33
		ø6.0 x 1.1	-46dB ±4dB	2.0V	0.50mA	>58dB	359-1075-ND◆	2.24	1.87	1.20	EM6011-46FC10&33-G
		ø6.0 x 5.0	-44dB ±3dB	4.5V	0.50mA	>40dB	359-1055-ND◆	.40	.34	.22	EM6050P-443-G

◆ ***RoHS Compliant***

(Continued)

Electret Condenser Microphone and Holders *(Cont.)*

Fig.	Type	Physical Size (mm)	Sensitivity (0dB = 1V/Pa)	Operating Voltage Standard	Current Consumption Maximum	S/N Ratio	Digi-Key Part No.	Price Each 1	10	100	Horn Part No.
5	Omni-directional	ø6.0 x 2.7	-42dB ±3dB	4.5V	0.50mA	>40dB	359-1061-ND◆	1.02	.85	.55	EM6027PA-423-G
		ø6.0 x 1.8	-46dB ±2dB	2.0V	0.50mA	>60dB	359-1024-ND	1.55	1.30	.83	EM6018P-46BC10&33
		ø6.0 x 2.2	-42dB ±2dB	2.0V	0.50mA	>60dB	359-1025-ND	1.12	.94	.60	EM6022P-42BC10&33
		ø6.0 x 2.2	-42dB ±2dB	2.0V	0.50mA	>60dB	359-1065-ND◆	1.12	.94	.60	EM6022P-42BC10&33-G
6		ø4.0 x 2.0	-48dB ±4dB	2.0V	0.50mA	>58dB	359-1073-ND◆	1.87	1.56	1.00	EM4020-48BC10&33-G
7		ø10.0 x 5.0	-38dB ±2dB	4.5V	0.50mA	>60dB	359-1026-ND	.43	.36	.23	EM1050-38
		ø10.0 x 5.0	-38dB ±2dB	4.5V	0.50mA	>60dB	359-1066-ND◆	.43	.36	.23	EM1050-38-G
8		ø6.0 x 2.2	-42dB ±2dB	2.0V	0.50mA	>60dB	359-1028-ND	1.28	1.07	.69	EM6022S-42BC10&33
		ø6.0 x 2.2	-42dB ±2dB	2.0V	0.50mA	>60dB	359-1068-ND◆	1.28	1.07	.69	EM6022S-42BC10&33-G
9		ø4.5 x 1.3	-50dB ±4dB	2.0V	0.50mA	>58dB	359-1032-ND	1.87	1.56	1.00	EM4513-50BC10&33
		ø4.5 x 1.3	-50dB ±4dB	2.0V	0.50mA	>55dB	359-1072-ND◆	1.87	1.56	1.00	EM4513-50BC10&33-G
10		ø6.0 x 1.8	-42dB ±3dB	2.0V	0.50mA	>58dB	359-1087-1-ND◆‡	5.64	4.24	2.83	EM6018SMT-42BC10&33-G
3	Uni-directional	ø6.0 x 5.0	-51dB ±4dB	2.0V	0.50mA	>58dB	359-1016-ND	.96	.81	.52	EM6050U-514
		ø6.0 x 5.0	-51dB ±4dB	2.0V	0.50mA	>58dB	359-1057-ND◆	.96	.81	.52	EM6050U-514-G
11		ø9.7 x 5.2	-47dB ±4dB	1.5V	0.50mA	>60dB	359-1003-ND	1.02	.85	.55	EM9752U-474
		ø9.7 x 5.2	-47dB ±4dB	1.5V	0.50mA	>60dB	359-1044-ND◆	1.02	.85	.55	EM9752U-474-G
		ø9.7 x 5.2	-51dB ±4dB	1.5V	0.50mA	>60dB	359-1004-ND	1.02	.85	.55	EM9752U-514
		ø9.7 x 5.2	-51dB ±4dB	1.5V	0.50mA	>60dB	359-1045-ND◆	1.02	.85	.55	EM9752U-514-G
		ø8.0 x 5.0	-51dB ±4dB	1.5V	0.50mA	>58dB	359-1010-ND	1.02	.85	.55	EM8050U-514
3	Cancelling	ø6.0 x 5.0	-51dB ±4dB	2.0V	0.50mA	>58dB	359-1056-ND◆	.96	.81	.52	EM6050N-514-G
12	Microphone holder for 4.0 x 1.5mm Microphone						359-1078-ND◆	.21	.18	.12	01.AE.MT.401504-G
13	Microphone holder for 6.0 x 1.5mm Microphone						359-1038-ND	.21	.18	.12	01.AE.MT.601503
13	Microphone holder for 6.0 x 1.5mm Microphone						359-1079-ND◆	.21	.18	.12	01.AE.MT.601503-G
14	Microphone holder for 9.7 x 4.5mm Microphone						359-1081-ND◆	.21	.18	.12	01.AE.MT.974501-G
15	Microphone holder for 9.7 x 6.5mm Microphone						359-1082-ND◆	.21	.18	.12	01.AE.MT.976509-G
16	Microphone holder for 9.4mm Microphone						359-1077-ND◆	.22	.18	.12	01.AE.MT.946502-G

◆ ***RoHS Compliant*** ‡ Cut Tape

Electret Condenser Microphones

Fig. 1

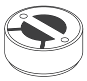

Fig. 2

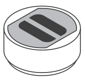

Fig. 3

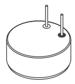

Fig. 4

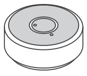

Fig. 5

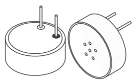

Fig. 6

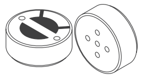

Fig.	Physical Size (mm)	Sensitivity (dB)	Built-In Capacitor	S/N Ratio	Digi-Key Part No.	Price Each 1	10	100	Projects Unlimited Part No.
					Uni-directional				
1	6.0 x 3.0	-46	—	55	668-1174-ND	3.01	2.15	1.60	PUM-3046L-R
	6.0 x 3.5	-46	—	55	668-1175-ND	3.01	2.15	1.60	PUM-3546L-R
					Noise Canceling				
1	4.5 x 3.0	-54	—	55	668-1178-ND	3.54	2.53	1.87	TNM-3054L-R
	6.0 x 2.7	-51	—	55	668-1143-ND	3.15	2.25	1.67	PNM-2751L-R
	6.0 x 3.5	-46	—	60	668-1144-ND	3.15	2.25	1.67	PNM-3546L-R
					Omni-directional				
1	4.0 x 1.5	-45	—	60	668-1183-ND	3.54	2.53	1.87	TOM-1545L-R
	4.5 x 3.0	-46	—	60	668-1187-ND	3.54	2.53	1.87	TOM-3046L-R
	9.7 x 6.7	-42	—	60	668-1195-ND ***NEW!***	1.58	1.13	.84	AOM-6742L-R
2	6.0 x 1.2	-42	—	60	668-1145-ND	4.41	3.15	2.34	POM-1242L-R
	6.0 x 2.2	-42	33pF	60	668-1148-ND	2.94	2.10	1.56	POM-2242L-C33-R
	6.0 x 2.2	-46	33pF	60	668-1151-ND	2.94	2.10	1.56	POM-2246L-C33-R
	6.0 x 2.7	-38	—	60	668-1156-ND	2.94	2.10	1.56	POM-2738L-R
	6.0 x 2.7	-42	—	60	668-1159-ND	2.94	2.10	1.56	POM-2742L-2-R
	6.0 x 2.7	-46	—	60	668-1163-ND	2.94	2.10	1.56	POM-2746L-R
	6.0 x 3.0	-42	—	60	668-1165-ND	2.63	1.88	1.39	POM-3042L-R
	6.0 x 3.0	-46	—	60	668-1167-ND	2.63	1.88	1.39	POM-3046L-R
	6.0 x 3.5	-42	—	60	668-1169-ND	2.63	1.88	1.39	POM-3542L-R
	6.0 x 3.5	-46	—	60	668-1171-ND	2.63	1.88	1.39	POM-3546L-R
	6.0 x 3.5	-49	—	60	668-1173-ND	2.63	1.88	1.39	POM-3549L-R
3	4.0 x 1.5	-45	—	60	668-1184-ND	3.54	2.53	1.87	TOM-1545P-R
	6.0 x 1.5	-47	—	60	668-1146-ND	4.41	3.15	2.34	POM-1547P-R
	6.0 x 2.2	-42	33pF	60	668-1149-ND	2.94	2.10	1.56	POM-2242P-C33-R
	6.0 x 2.2	-46	—	60	668-1152-ND	2.94	2.10	1.56	POM-2246P-2-R

Fig.	Physical Size (mm)	Sensitivity (dB)	Built-In Capacitor	S/N Ratio	Digi-Key Part No.	Price Each 1	10	100	Projects Unlimited Part No.
3	6.0 x 2.2	-46	33pF	60	668-1153-ND	2.94	2.10	1.56	POM-2246P-C33-R
	6.0 x 2.7	-35	—	60	668-1155-ND	2.94	2.10	1.56	POM-2735P-R
	6.0 x 2.7	-38	—	60	668-1158-ND	2.94	2.10	1.56	POM-2738P-R
	6.0 x 2.7	-38	33pF	60	668-1157-ND	2.94	2.10	1.56	POM-2738P-C33-R
	6.0 x 2.7	-42	—	60	668-1160-ND	2.94	2.10	1.56	POM-2742P-2-R
	6.0 x 2.7	-42	33pF	60	668-1161-ND	2.94	2.10	1.56	POM-2742P-C33-R
	6.0 x 2.7	-46	—	60	668-1164-ND	2.94	2.10	1.56	POM-2746P-R
	6.0 x 3.0	-42	—	60	668-1166-ND	2.63	1.88	1.39	POM-3042P-R
	6.0 x 3.0	-46	—	60	668-1168-ND	2.63	1.88	1.39	POM-3046P-R
	6.0 x 3.5	-42	—	60	668-1170-ND	2.63	1.88	1.39	POM-3542P-R
	6.0 x 3.5	-46	—	60	668-1172-ND	2.63	1.88	1.39	POM-3546P-R
	9.4 x 6.5	-45	—	60	668-1198-ND ***NEW!***	1.58	1.13	.84	AOM-6545P-R
	9.7 x 4.5	-44	—	60	668-1197-ND ***NEW!***	1.58	1.13	.84	AOM-4544P-2-R
	9.7 x 6.7	-42	—	60	668-1196-ND ***NEW!***	1.58	1.13	.84	AOM-6742P-2-R
4	4.0 x 1.0	-45	33pF	60	668-1179-ND	3.54	2.53	1.87	TOM-1045S-C33-R
	4.0 x 1.1	-45	33pF	60	668-1180-ND	3.54	2.53	1.87	TOM-1145S-C33-R
	4.0 x 1.2	-45	33pF	60	668-1182-ND	3.54	2.53	1.87	TOM-1245S-C33-R
	4.0 x 1.5	-45	33pF	60	668-1185-ND	3.54	2.53	1.87	TOM-1545S-C33-R
	4.0 x 1.5	-45	—	60	668-1186-ND	3.54	2.53	1.87	TOM-1545S-R
	5.8 x 2.2	-38	—	60	668-1177-ND	3.15	2.25	1.67	ROM-2238S-NF-R
	6.0 x 1.5	-47	—	60	668-1147-ND	4.41	3.15	2.34	POM-1547S-R
	6.0 x 2.2	-42	33pF	60	668-1150-ND	2.94	2.10	1.56	POM-2242S-C33-R
	6.0 x 2.2	-46	—	60	668-1154-ND	2.94	2.10	1.56	POM-2246S-2-R
	6.0 x 2.7	-42	33pF	60	668-1162-ND	2.94	2.10	1.56	POM-2742S-C33-R
5	5.8 x 2.2	-38	—	60	668-1176-ND	3.15	2.25	1.67	ROM-2238P-NF-R
6	4.0 x 1.2	-42	—	60	668-1181-ND	3.54	2.53	1.87	TOM-1242L-NF-R

NEW! Surface Mount Silicon Microphones

Specifications: • Directivity: Omni • Sensitivity: -42 ±3dB • Standard Operating Voltage: 2.1Vdc • Maximum Operating Voltage: 3.6Vdc • Maximum Current Consumption: 200µA • Maximum Impedance: 100Ω • Minimum Signal to Noise Ratio: 55dBA • Internal Capacitors: 10 and 33pF • Frequency Range: 100 ~ 7,000Hz • Operating Temperature: -40 ~ 100°C • Storage Temperature: -40 ~ 100°C • Maximum SPL: 120 dB (for less that 0.5% distortion)

Fig. 1

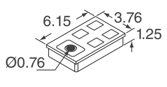

Fig. 2

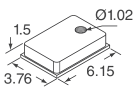

Fig. 3

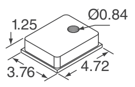

Fig. 4

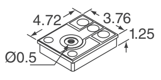

Fig. 5

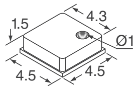

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Projects Unlimited Part No.
1	Bottom Sound Port	668-1199-1-ND	7.14	5.10	3.78	668-1199-2-ND	1,250	3060.00/M	POSM-1342RM-C3310-R
2	Top Sound Port	668-1200-1-ND	7.14	5.10	3.78	668-1200-2-ND	1,250	3060.00/M	POSM-1542-C3310-R
3	Mini, Top Sound Port	668-1201-1-ND	7.14	5.10	3.78	668-1201-2-ND	1,250	3060.00/M	ROSM-1342-C3310-R
4	Mini, Bottom Sound Port	668-1202-1-ND	7.14	5.10	3.78	668-1202-2-ND	1,250	3060.00/M	ROSM-1342RM-C3310-R
5	Mini, Top Sound Port	668-1203-1-ND	7.14	5.10	3.78	668-1203-2-ND	1,250	3060.00/M	ROSM-1542-C3310-R

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic®

Electret Condenser Microphone Cartridges

Consists of a high voltage internal electret membrane, metal electrode and a Field Effect Transistor (FET). Doesn't need a high-voltage bias from the outside like ordinary condenser microphones. **Features:** Highly efficient electrical specification, pressure type operating principle, low impedance (2.2kΩ), omnidirectional back directivity and a high degree of reliability under adverse shock, vibration and environmental tests. **Applications:** Telephone and telephone answering devices, tape recorders, intercoms, computer modems, completed microphones for recording, testing and monitoring, hearing aids, sonic controlled toys and sensors and others. All buzzers and microphones are non-washable.

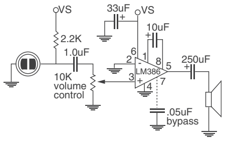

Fig. 1

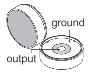

Fig. 2

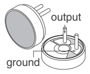

Fig. 3

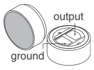

Fig. 4

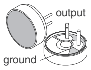

Fig. 5

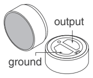

Fig. 6

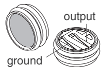

Fig. 7

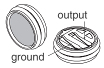

Fig. 8

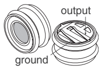

Fig. 9

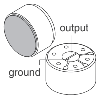

Fig. 10

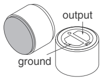

Fig. 11

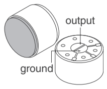

Fig.	Type	Physical Size (mm)	Sensitivity (0dB = 1V/Pa)	Frequency Range (Hz)	Operating Voltage Max./Std.	Current Consumption Max.	Sensitivity Reduction	S/N Ratio	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	Omni-directional	ø6.0 X 1.3	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11958-ND†	3.02	2.68	2.17	WM-63GNT
2		ø6.0 X 1.3	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11961-ND◆	3.47	3.08	2.49	WM-63PRT
3		ø6.0 X 2.2	-45dB ±4dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P9955-ND◆†	2.05	1.82	1.48	WM-64C
3	Omni-directional	ø6.0 X 2.2	-45dB ±4dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P9958-ND◆†	2.03	1.81	1.46	WM-64K
1		ø6.0 X 2.2	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11964-ND†	1.99	1.77	1.43	WM-64MCT
1		ø6.0 X 2.2	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11965-ND◆†	2.11	1.88	1.52	WM-64MNT
4		ø6.0 X 2.2	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11969-ND◆†	2.52	2.23	1.81	WM-64PNT
5	Omni-directional	ø6.0 X 3.4	-35dB ±4dB	20 ~ 20k	10V/2V	0.5mA	within -3dB @ 1.5V	>62dB	P9925-ND◆	1.86	1.66	1.34	WM-61A
6	Omni-directional	ø7.7 X 3.0	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11959-ND	4.97	4.41	3.56	WM-63GNT330
7		ø7.5 X 2.4	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11960-ND	5.01	4.44	3.59	WM-63GNT335
8		ø7.7 X 4.0	-44dB ±3dB	20 ~ 16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11966-ND	3.90	3.47	2.80	WM-64MNT330A
9	Uni-directional	ø9.7 X 5.0	-47dB ±4dB	100 ~ 16k	10V/1.5V	0.5mA	within -3dB @ 1V	>60dB	P9961-ND◆	2.52	2.23	1.81	WM-55A103
10		ø6.0 X 5.0	-50dB ±4dB	100 ~ 12k	10V/2V	0.5mA	within -3dB @ 1.5V	>55dB	P9964-ND◆	2.11	1.88	1.52	WM-65A103
11	Noise Canceling	ø9.7 X 5.0	-54dB ±4dB	100 ~ 10k	10V/1.5V	0.5mA	within -3dB @ 1V	>58dB	P9897-ND◆	2.77	2.46	1.99	WM-55D103

◆ ***RoHS Compliant*** † With built-in cap

Microphone Holders

RoHS COMPLIANT

Fig.	Digi-Key Part No.	Price Each 1	10	100	500	Panasonic Part No.	Use With Panasonic Part No.
1	P9950-ND	.59	.50	.39	.28	M3CA0208A4	WM-55A103, WM-55D103
2	P9952-ND	.59	.50	.39	.28	M3CA0207A4	WM-55A103, WM-55D103

Fig. 1

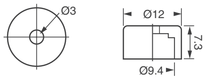

Fig. 2

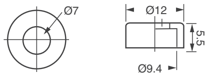

KNOWLES ACOUSTICS

Electret Condenser Microphones

Applications:
- Headsets • Corded and cordless telephones • PCs, PC tablets, laptops • PDAs, MP3 players • Automotive and automotive accessories • General electronics

Features:
- Operating Temperature: -25° ~ 55°C • Highly efficient electrical specifications • Provide good acoustic performance and reliability under typical environmental conditions
- Industry standard sizes • Omni, Uni, and Noise Canceling • Integrated RF filtering • Multiple terminations available - Solderless, Pin Type, and PCB

Fig.	Physical Size (mm)	Sensitivity @1kHz (dB re 1V/Pa)	Freq. Range (Hz)	Stan. Operat. Volt.	Max. Operat. Volt.	Max. Current Consumption (mA)	S/N Ratio	Built-in Capacitor	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
Omni-Directional													
1	ø3.0 x 1.5	-44 ±3	100 ~ 10K	2.0	10	0.500	>55dB	10pF, 33pF	423-1087-ND◆	4.45	3.11	2.55	MB3015ASC-2
1	ø6.0 x 1.3	-42 ±3	100 ~ 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1089-ND◆	2.28	1.54	1.19	MB6013ASC-1
1	ø6.0 x 1.5	-42 ±3	100 ~ 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1090-ND◆	2.28	1.54	1.19	MB6015ASC-1
1	ø6.0 x 2.2	-42 ±3	100 ~ 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1091-ND◆	2.07	1.35	1.06	MB6022ASC-1L
1	ø6.0 x 2.7	-42 ±3	100 ~ 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1093-ND◆	2.01	1.33	1.03	MB6027ASC-1L
1	ø6.0 x 2.7	-42 ±3	100 ~ 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1045-ND◆	1.92	1.30	1.01	MB6027ASC-1
1	ø6.0 x 5.2	-42 ±3	100 ~ 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1095-ND◆	2.47	1.68	1.30	MB6052ASC-1
2	ø6.0 x 3.0	-38 ±4	100 ~ 10K	3.0	10	0.500	>55dB	None	423-1018-ND	1.77	1.60	1.30	MD6030ASZ-1
3	ø9.7 x 4.5	-41 ±3	100 ~ 10K	2.0	10	0.500	>55dB	10pF	423-1024-ND	1.25	.80	.58	MD9745APA-1
3	ø6.0 x 2.2	-40 ±3	100 ~ 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1043-ND◆	1.86	1.68	1.34	MB6022APC-0
4	ø9.7 x 4.5	-44 ±2	100 ~ 10K	2.0	10	0.500	>55dB	None	423-1023-ND◆	1.01	.91	.75	MD9745APZ-F
5	ø4.0 x 1.5	-44 ±2	100 ~ 10K	2.0	10	0.500	>55dB	10pF, 33pF	423-1049-ND◆	3.43	2.95	2.68	MB4015ABC-2
6	ø4.0 x 1.5	-44 ±2	100 ~ 10K	2.0	10	0.500	>55dB	10pF, 33pF	423-1050-ND◆	4.13	3.50	3.18	MB4015ARC-0 (Poly)
7	ø4.0 x 1.5	-42 ±3	100 ~ 10K	2.0	10	0.500	>55dB	10pF, 33pF	423-1047-ND◆	3.64	3.28	3.21	MB4015ASC-1
7	ø6.0 x 2.2	-45 ±2	100 ~ 10K	3.0	10	0.500	>60dB	10pF, 33pF	423-1075-ND◆	1.62	1.46	1.17	MB6022ABC-3
Noise Canceling													
1	ø6.0 x 2.2	-44 ±3	100 ~ 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1092-ND◆	2.73	1.85	1.50	MB6022NSC-2
7	ø4.0 x 1.5	-46 ±3	100 ~ 10K	2.0	10	0.500	>55dB	10pF, 33pF	423-1053-ND◆	4.16	3.75	3.67	MB4015NSC-3
8	ø9.7 x 5.2	-38 ±3	300 ~ 6K	3.0	10	0.500	>55dB	None	423-1027-ND	2.37	2.14	1.72	MD9752NSZ-0
8	ø9.7 x 5.5	-40 ±3	300 ~ 6K	3.0	10	0.500	>55dB	None	423-1079-ND◆	1.85	1.67	1.34	MD9752NSZ-1
Unidirectional													
1	ø3.0 x 1.5	-51 ±4	100 ~ 10K	2.0	10	0.500	>45dB	33pF	423-1088-ND◆	4.92	3.50	2.87	MB3015USB-4
1	ø6.0 x 2.7	-47 ±3	100 ~ 10K	2.0	10	0.500	>50dB	10pF, 33pF	423-1094-ND◆	2.95	2.00	1.57	MB6027USC-3
2	ø9.7 x 5.0	-47 ±3	100 ~ 10K	1.5	10	0.500	>55dB	33pF	423-1096-ND◆	3.57	2.38	1.94	MB9750USB-4
8	ø9.7 x 5.5	-44 ±2	100 ~ 10K	1.5	10	0.500	>55dB	None	423-1025-ND	2.31	2.15	1.94	MD9755USZ-1
9	ø6.0 x 5.2	-44 ±3	100 ~ 10K	2.0	10	0.500	>60dB	None	423-1078-ND◆	1.68	1.52	1.22	MB6052USZ-2

◆ ***RoHS Compliant***

Fig. 1

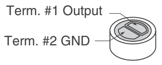

Fig. 2

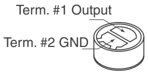

Fig. 3

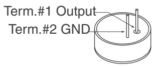

Fig. 4

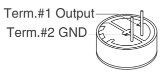

Fig. 5

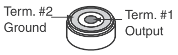

Fig. 6

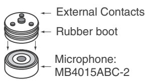

Fig. 7

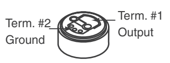

Fig. 8

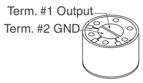

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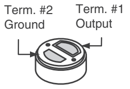

KNOWLES ACOUSTICS

High Performance Audio Products

Omni-Directional Electret Microphones

FG Series: • Integral FET amplifier • Wide, flat frequency response • Low noise performance • High electroacoustic sensitivity • 3-Wire configuration **EM Series:** • Integral FET amplifier • High electroacoustical sensitivity • Low vibration sensitivity • Low Noise • Small size **WP Series:**• Integral FET amplifier • High electroacoustical sensitivity • Low noise • Low vibration sensitivity • Flat response down to very low frequency • Survives submersion in water • 3-Wire configuration **EK Series:** • Integral FET amplifier • High electroacoustical sensitivity • Low vibration sensitivity • Low noise • 3-Wire configuration **EA Series:** • High resistance to mechanical shock • Rugged construction to withstand severe environmental conditions

Dim. in mm

Fig. 1

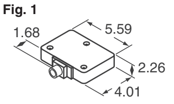

Fig. 2

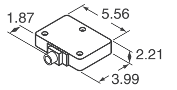

Fig. 3

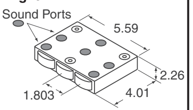

Fig. 4

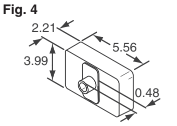

Fig. 5

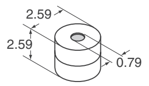

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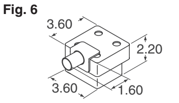

Fig. 7

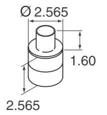

Fig. 8

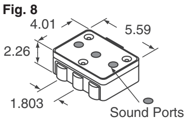

Fig.	Sensitivity @ 1kHz (dB re 1V/Pa)	(dB re 1V/0.1 Pa)	DC Supply Voltage	Max. Amplifier Current Drain (µA)	Max. "A" Weighted Noise (1kHz Equivalent SPL)	Output Imped. (Ω)	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
1	—	-53 ±2	1.3 ~ 10	50	26.0 dB	4400	423-1098-ND◆†	28.75	23.43	20.13	EK-23024-P07
	—	-59 ±3	1.3 ~ 10	50	28.5 dB	3500	423-1124-ND◆	19.01	14.94	12.90	EA-21842-C36
	—	-53 ±2	1.3 ~ 10	50	26.0 dB	4400	423-1121-ND◆	19.80	15.56	13.44	EK-23024-C36
2	—	-53 ±2	1.3 ~ 10	50	26.0 dB	4400	423-1099-ND◆	20.57	16.77	14.40	EK-23133-C36
3	-33 ±3	-53 ±3	1.0 ~ 10	50	26.0 dB	4400	423-1008-ND◆	24.54	22.12	15.80	EK-3132
4	—	-53 ±2	1.3 ~ 10	50	26.0 dB	4400	423-1120-ND◆	19.80	15.56	13.44	EK-23027-C36
5	-33 ±3	—	0.9 ~ 1.6	50	28.0 dB	4400	423-1064-ND◆•	40.10	36.13	25.81	FG-3629-P16
	-43 ±3	—	0.9 ~ 1.6	50	30.0 dB	4400	423-1067-ND	27.11	24.43	19.25	FG-3742-C05
	—	-53 ±3	1.3 ~ 1.6	50	30.0 dB	4400	423-1119-ND◆	26.60	21.68	18.62	FG-23329-C05
	-43 ±3	—	0.9 ~ 1.6	50	30.0 dB	4400	423-1068-ND•	29.97	27.01	21.29	FG-3742-D36
	—	-53 ±3	1.3 ~ 1.6	50	28.0 dB	4400	423-1123-ND◆	26.60	21.68	18.62	FG-23629-C36
6	-36 ±3	—	0.9 ~ 10	50	31.0 dB	4400	423-1061-ND	23.64	21.30	16.90	EM-3046
	-36 ±3	—	0.9 ~ 10	50	31.0 dB	4400	423-1062-ND◆•	31.18	28.09	22.15	EM-3046-P16
	—	-56 ±3	1.3 ~ 10	50	31.0 dB	4400	423-1122-ND◆	23.44	19.11	16.42	EM-23046-C36
7	-33 ±3	—	0.9 ~ 1.6	50	28.0 dB	4400	423-1065-ND◆	29.65	26.71	21.05	FG-3652-C36
	-33 ±3		0.9 ~ 1.6	50	28.0 dB	4400	423-1066-ND◆•	40.10	36.13	25.81	FG-3652-P16
Waterproof Microphones											
8	-34 ±3	-54 ±3	1.0 ~ 10	50	28.0 dB	4400	423-1012-ND◆	33.39	30.09	21.49	WP-3502
	-34 ±3	-54 ±3	1.0 ~ 10	50	28.0 dB	4400	423-1054-ND•	37.22	33.53	23.95	WP-3502-P16

◆ ***RoHS Compliant*** • Has 1 inch long leads † Has 79 inch long leads

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Noise-Canceling Close Talking Microphones

Dim. in mm

NR Series: • Integral FET amplifier • Diaphragm responds to pressure differential giving high rejection of background noise • Small size • High electroacoustical sensitivity • Low vibration sensitivity

CF Series: • Integral FET amplifier • Diaphragm responds to pressure differential giving high rejection of background noise • Withstands severe environmental conditions • Sound ports protected by woven mesh treated with water repellent • High resistance to mechanical shock

WP Series: • Integral FET amplifier • Survives submersion in 1m water • Corrosion resistant • Withstands explosive decompression • High resistance to mechanical shock • Small size

Fig. 1

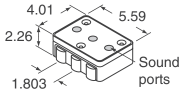

Fig. 2

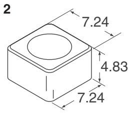

Fig.	Sensitivity @ 1kHz (dB re 1V/Pa)	(dB re 1V/0.1 Pa)	Microphone Configuration	DC Supply (V)	Max. Amplifier Current Drain (µA)	Nominal Output Imp. (Ω)	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
1	-32 ±3	-52 ±3	2-Wire	1.0 ~ 10	200	2500	423-1010-ND	16.90	15.23	11.04	NR-3160
2	-42 ±3	-62 ±3	3-Wire	1.0 ~ 10	50	3500	423-1014-ND	25.16	23.91	22.65	CF-2949
Waterproof Microphone											
1	-34 ±3	-54 ±3	2-Wire	1.0 ~ 10	300	2500	423-1011-ND	28.14	25.35	18.11	WP-3501

Piezo Ceramic, Accelerometer, Magnetic Balanced Armature

Dim. in mm

BL Series: • High sensitivity • Wide frequency range and flat response • Integral FET amplifier • High resistance to mechanical shock • BL-1785 typically used for instrumentation applications • 3-Wire configuration
BU Series: • Ceramic vibration transducer • High vibration sensitivity and small size • Wide frequency range • Integral FET preamplifier • 2 or 3-Wire configuration
BJ Series: • Balanced armature technology • High efficiency, stability and reliability • Self-shielded against external magnetic fields • Small size • Omni-directional • 2-Wire configuration

Fig. 1

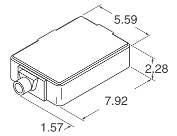

Fig. 2

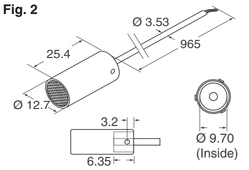

Fig. 3

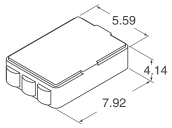

Fig. 4

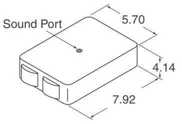

Fig.	Sensitivity @ 1kHz (dB re 1V/Pa)	(dB re 1V/0.1 Pa)	(dB re 1V/g)	DC Supply Voltage	Nominal DC Res. (Ω)	Max. Amplifier Current Drain (µA)	Max. "A" Weighted Noise (1kHz Equivalent SPL)	Output Imp. @ 1kHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
Piezo Ceramic Microphones													
1	-49 ±3	-69 ±3	—	3.0	—	160	34.0dB	4000	423-1003-ND	102.18	92.06	65.76	BL-21785
2	-49 ±3	-69 ±3	—	3.0	—	160	34.0dB	4000	423-1002-ND	126.99	114.07	90.57	BL-21994
3	—	-54.5 ±3	—	1.3	—	50	34.0dB	13000	423-1097-ND◆	46.78	38.69	34.14	BL21671-140
Accelerometer (Vibration-Sensing Transducer)													
3	—	—	-45.0 ±4.5	1.5 ~ 10	—	50	—	5200	423-1004-ND	52.71	47.49	33.92	BU-21771
Magnetic Balanced Armature													
4	-55.5 ±3	-75.5 ±3	—	—	900	—	—	3900	423-1001-ND	36.03	32.46	23.19	BJ-21590

◆ ***RoHS Compliant***

Waterproof Acoustical Transducers

Dim. in mm

MR Series: • Highly waterproof, no loss of performance after immersion in 15m water • Corrosion resistant • Withstands explosive decompression • Excellent environmental performance • High resistance to mechanical shock • Wire leads attached

Fig. 1

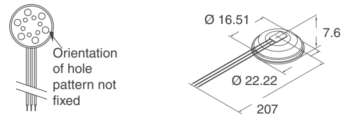

Fig. 2

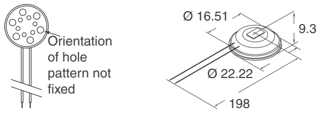

Fig.	Sensitivity @ 1kHz (dB re 1V/Pa)	(dB re 1V/0.1 Pa)	DC Supply Voltage	Max. Amplifier Current Drain (µA)	DCR @ 20 dC ±10% (Ω)	Max. "A" Weighted Noise (1kHz Equivalent SPL)	Load Condition (Ω)	Output Imp. @ 1kHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
Electret Microphone													
1	-41 ±4	-61 ±4	1.0 ~ 20	50	—	30	10K	3.5K	423-1016-ND	37.73	34.00	27.50	MR-8406
Magnetic Microphone													
2	-67.5 ±3	-87.5 ±3	—	—	75.5	—	300	300	423-1015-ND	23.12	20.84	19.96	MR-3151

(Continued)

Specialty Speakers

Dim. in mm

CB Series: • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • Excellent sound quality • High speech intelligibility • Suitable for PCB mounting • Can function as a microphone or beeper • Stainless steel enclosure • 3 Position male header attached **CM Series:** • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • High acoustic efficiency enables sufficient sound output even when limited power is available • In-built static protection • Lightweight, matt-black, plastic housing • Ergonomically designed with rounded edge to fit the concha • High-quality sound output • Tailored bandwidth for superb speech intelligibility • Rugged construction • 2 Position flexi-circuit attached **MR Series:** • Highly waterproof no loss of performance after immersion in 15m of water **BK Series:** • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • High sensitivity • Low distortion • Self shielded for low magnetic radiation **ED Series:** • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • High sensitivity • Low distortion • Self shielded for low magnetic radiation **EP Series:** • ED micro speaker, but with internal, highly-efficient, class D amplifier • Lower current drain prolongs battery life • Lower distortion **CI Series:** • High sensitivity, wide bandwidth response • Low distortion • Self shielded for low magnetic radiation **EC Series:** • Similar SPL output to the BK Series • Rounded corners on the face opposite the terminal pad • 34% smaller volume than the BK Series **EH Series:** • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • High sensitivity • Low distortion • Self-shielded for low magnetic radiation **ES Series:** • EH micro speaker, but with internal, highly-efficient, class D amplifier • Lower current drain prolongs battery life • Lower distortion **FK Series:** • World's smallest balanced-armature magnetic receiver for hearing aid applications • Ideal for CIC instruments **SR Series:** • A magnetic balanced armature receiver with increased DCR/ Impedance ratio for reduced bass response optimized for use in earphones

Fig. 1

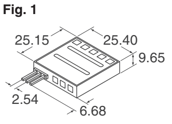

Fig. 2

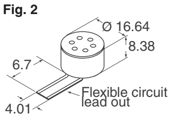

Fig. 3

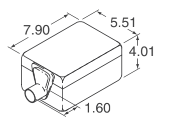

Fig. 4

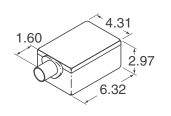

Fig. 5

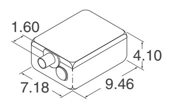

Fig. 6

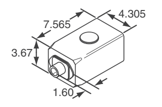

Fig. 7

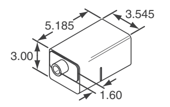

Fig. 8

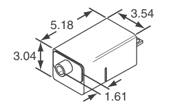

Fig. 9

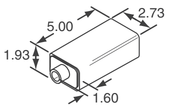

Fig. 10

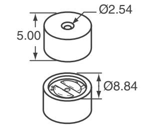

Fig.	Nominal DC Resistance (Ω)	Impedance @ Frequency	Sound Port Location	Nominal Output @ 1kHz, Distance= 30cm (dB SPL)	Nominal Output @ 1kHz, Sealed to IEC 318 Coupler (dB SPL)	Distortion Max %	@ Hz	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
					Handset Transceiver							
1	4.2	12@1kHz	Top Edge	73	—	15	500	423-1030-ND	19.88	17.91	12.79	CB-22844
	4.2	12@1kHz	Face	73	—	15	500	423-1033-ND	19.88	17.91	12.79	CB-22846
	11.5	24@1kHz	Face	73	—	15	500	423-1034-ND	25.88	23.32	16.66	CB-22847
	21.5	48@1kHz	Face	73	—	15	500	423-1035-ND◆	19.88	17.91	12.79	CB-22848
	11.5	24@1kHz	Top Edge	73	—	15	500	423-1031-ND	25.88	23.32	16.66	CB-22849
	21.5	48@1kHz	Top Edge	73	—	15	500	423-1032-ND	25.88	23.32	16.66	CB-22850
					Headset Speaker — Flexi-Circuit							
2	65	150@1kHz	—	—	103	2	300	423-1036-ND	21.92	19.75	14.11	CM-23152
	8.5	30@1kHz	—	—	103	2	300	423-1037-ND◆	26.59	23.96	17.12	CM-28431
	100	360@1kHz	—	—	—	2	300	423-1106-ND◆	19.37	15.22	13.15	CM-28421-000
	100	360@1kHz	—	—	—	2	300	423-1107-ND◆	16.71	12.92	10.83	CM-28452-000
					Headset Speaker — Wire Lead Out — RoHS Compliant							
2	10	21@1kHz	—	—	—	5	300	423-1118-ND	44.78	36.53	32.41	MR-23333-000
	65	150@1kHz	—	—	—	2	300	423-1105-ND	16.71	12.92	10.83	CM-23299-000
					Balanced Armature Speakers							
3	10.7	13.3@500Hz	—	—	—	10	500	423-1055-ND	17.97	16.20	12.77	BK-28507
	10.7	13.3@500Hz	—	—	—	10	500	423-1056-ND•	24.39	21.90	17.34	BK-28507-P16
	895	2320@500Hz	End	—	—	10	500	423-1100-ND◆	16.95	13.73	11.51	BK-21604-000
	10.7	16@500Hz	End	—	—	10	500	423-1101-ND◆	16.95	13.73	11.51	BK-26824-000
	18.5	23@500Hz	End	—	—	10	500	423-1102-ND◆	16.95	13.73	11.51	BK-28562-000
	100	285@500Hz	End	—	—	10	500	423-1103-ND◆	16.95	13.73	11.51	BK-29725-000
4	3.32	10.2@500Hz	—	—	—	5	800	423-1059-ND	22.73	20.48	16.14	ED-23619
	3.32	10.2@500Hz	—	—	—	5	800	423-1060-ND•	30.31	27.31	21.53	ED-23619-P16
	376	780@500Hz	End	—	—	5	800	423-1110-ND◆	20.38	16.61	14.27	ED-21913-000
	25	48@500Hz	End	—	—	10	500	423-1111-ND◆	20.37	16.61	14.26	ED-23147-000
	3.3	7.1@500Hz	End	—	—	10	500	423-1112-ND◆	20.38	16.61	14.27	ED-26821-000
	—	50@1kHz	End	—	—	5	800	423-1114-ND◆	28.56	23.28	20.00	EP-24075-000
5	100	400@500Hz	End	—	—	10	500	423-1104-ND◆	21.78	17.76	15.25	CI-22960-000
6	92	200@500Hz	End	—	—	10	800	423-1108-ND◆	20.73	16.29	14.07	EC-23097-000
	196	425@500Hz	End	—	—	10	800	423-1109-ND◆	20.73	16.29	14.07	EC-23098-000
7	395	625@500Hz	End	—	—	10	800	423-1113-ND◆	29.18	23.78	20.43	EH-23030-000
8	—	50@1kHz	End	—	—	5	800	423-1115-ND◆	34.40	28.23	24.70	ES-23127-000
9	360	450@500Hz	End	—	—	5	800	423-1116-ND◆	29.54	24.08	20.68	FK-23451-000
10	18.5	21.5@500Hz	—	—	—	5	550	423-1117-ND◆	19.36	15.22	13.14	SR8850NWS-000

◆ ***RoHS Compliant*** • Has 1 inch long leads

SiSonic™ Silicon Microphones

Dim. in mm

RoHS COMPLIANT

Fig. 1 — SiSonic Standard

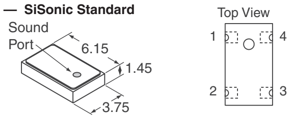

1. Output
2. No Connection (Gain Control on SP0103 Model)
3. Ground
4. Power

Fig. 2 — SiSonic Zero - Height

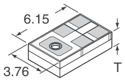

Fig. 3 — SiSonic Mini

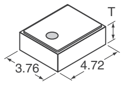

Features: • Surface mount microphone • Compatible with standard surface mount soldering process • Automated pick 'n' place using standard equipment • No off-line soldering or insertion • Highly shock resistant • Low vibration sensitivity • Operation at high and low temperature • Ability to integrate additional electronics into package • Omni-directional **Applications:** • Cellular phones • Corded and cordless telephones • PCs, PC tablets, labtops • PDAs, MP3 players • Automotive and automotive accessories • General electronics

SiSonic Zero-Height: • SiSonic "Zero Height" shrinks product thickness by up to 30% • Minimizes distance between PCB and mobile device housing • Ideal for microphone placement on reverse side of PCB, while maintaining acoustic port on top side of mobile device, for clamshell phone designs • Enables the thinnest, highest density product designs • Integrated Amplified version increases output signal by up to 20dB **SiSonic Mini:** • New Mini SiSonic with a footprint less than 18mm^2 reduces manufacturing costs and brings greater design flexibility • Rugged, solid state design process for stable acoustic performance under extreme conditions such as temperature, shock and vibration • Flexible package design allows for future product enhancements and integration of additional components • Integrated Amplified version increases output signal by up to 20dB

Fig.	Sensitivity @1kHz (dB re 1V/Pa)	Operating Voltage Range DC	Current Consumption	S/N Ratio @ 1kHz	Operating Temperature	Built-in Capacitor	Dim. T	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Knowles Acoustics Part No.
1	-42 ±4	1.5 ~ 5.5V	<0.250mA @ 5.5VDC	>55dB	-40°C ~ 100°C	10pF, 33pF	—	423-1039-1-ND†	6.00	5.28	4.40	—	—	—	SP0102NC3-2
2	-42 ±4	1.5 ~ 5.5V	<0.250mA @ 5.5VDC	<55dB	-40°C ~ 100°C	—	1.65	423-1069-1-ND	4.62	3.17	2.52	—	—	—	SP0102BE3-5
	-42 ±4	1.5 ~ 3.6V	<0.250mA @ 3.6VDC	>55dB	-40°C ~ 100°C	—	1.25	423-1080-1-ND	4.37	3.05	2.50	423-1080-2-ND	1,200	3900.00/M	SP0204LE5-2
	-22 ±3	1.5 ~ 3.6V	<0.350mA @ 3.6VDC	>55dB	-40°C ~ 100°C	—	1.25	423-1081-1-ND	4.76	3.32	2.72	423-1081-2-ND	1,200	4250.00/M	SP0208LE5-2
	-22 ±4	1.5 ~ 5.5V	<0.350mA @ 5.5VDC	<59dB	-40°C ~ 100°C	—	1.65	423-1074-1-ND	6.50	6.08	5.22	423-1074-2-ND	900	3827.69	SP0103BE3-5
3	-42 ±4	1.5 ~ 5.5V	<0.250mA @ 5.5VDC	<59dB	-40°C ~ 100°C	—	1.50	423-1070-1-ND	4.37	3.70	3.18	423-1070-2-ND	1,200	2584.87/M	SPM0102ND3-2
	-42 ±4	1.5 ~ 5.5V	<0.250mA @ 5.5VDC	<59dB	-40°C ~ 100°C	—	1.50	423-1071-1-ND•	6.50	5.57	4.79	—	—	—	SPM0102NE3-2
	-42 ±4	1.5 ~ 3.6V	<0.250mA @ 3.6VDC	>55dB	-40°C ~ 100°C	—	1.25	423-1082-1-ND	4.18	2.88	2.35	423-1082-2-ND	1,200	3550.00/M	SPM0204HD5-2
	-42 ±4	1.5 ~ 3.6V	<0.250mA @ 3.6VDC	>55dB	-40°C ~ 100°C	—	1.25	423-1083-1-ND	5.01	4.62	4.24	423-1083-2-ND	1,200	3900.00/M	SPM0204HE5-2
	-22 ±4	1.5 ~ 3.6V	<0.350mA @ 3.6VDC	>55dB	-40°C ~ 100°C	—	1.25	423-1084-1-ND	4.31	3.01	2.47	423-1084-2-ND	1,200	3900.00/M	SPM0208HD5-2
	-22 ±4	1.5 ~ 5.5V	<0.350mA @ 5.5VDC	<59dB	-40°C ~ 100°C	—	1.50	423-1072-1-ND	4.73	4.06	3.49	423-1072-2-ND	1,200	2838.16/M	SPM0103ND3-2
	-22 ±4	1.5 ~ 3.6V	<0.350mA @ 3.6VDC	>55dB	-40°C ~ 100°C	—	1.25	423-1085-1-ND	4.51	3.14	2.58	423-1085-2-ND	1,200	4000.00/M	SPM0208HE5-2

• With enhanced RF filtering † No board washing after solder re-flow

Ultrasonic Acoustic Sensor

RoHS COMPLIANT

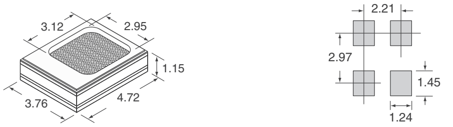

The Ultrasonic Acoustic Sensor utilizes the latest technology MEMS (Micro Electro Mechanical Systems) to provide a robust mechanical acoustic sensor which performs over a wide environmental range. Compared to conventional Ultrasonic Sensors that have a narrow frequency band of detection, the Knowles sensor is ideal for capturing a wide frequency range applicable to a variety of ultrasonic applications: Ultrasonic Range Detection, Condition Monitoring, Fault detection, Level Sensing and Position Sensing. The sensor can be utilized to monitor and detect frequencies from 10kHz to 65kHz with minimal attenuation across the frequency range.

Sensitivity @1kHz (dB re 1V/Pa)	Operating Voltage Range DC	Max. Current Consumption	S/N Ratio @ 1kHz	Operating Temperature	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Knowles Acoustics Part No.
-47 ±4	1.5 ~ 3.6V	<0.250mA @ 3.6VDC	>59dB	-40°C ~ 100°C	423-1086-1-ND	15.47	13.25	11.76	423-1086-2-ND	1,200	11750.00/M	SPM0204UD5-2

LMB HEEGER Aluminum Enclosures

Fig. 1

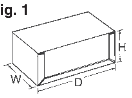

Aluminum Boxes: • .040" (1.02mm) Plain aluminum • Screw fastening, punched and tapped

Fig. 2

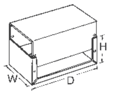

Snap Together Aluminum Boxes: • .040" (1.02mm) Plain aluminum • An ideal box for construction where screws cannot be used and where access to the box must be quick and often. The catches hold the box together tightly

Crown Royal Series Chassis: • Versatile and rugged construction • Constructed of .050" (1.27mm) aluminum, Type 3003-H14 • Plain aluminum • Screws included

Fig. 3

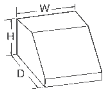

Fig. 4

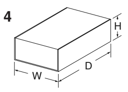

Fig. 3 - Aluminum Consoles: • Plain aluminum • The length of the Flat Top of the MDC Series is 1/2 the total depth

Figs. 3 and 4 - Uni-Cab Universal Cabinet System: • Bases are .090 (2.29mm) aluminum. Covers are .063" (1.60mm) aluminum, Type 3003-H14 metal • Pem nuts used throughout for longer life and ease of assembly and disassembly • All parts are primed to protect the metal against the elements and to serve as a paint base. Bases are finished in textured blue, covers are finished in semi-gloss white • The base is approximately 1/4" (6.35mm) larger than the cover dimensions

Fig. 5

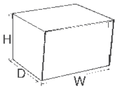

Small Cabinets: • Finished in Grey • By removing four screws in bottom, cover slides off for easy access to interior of enclosure • A housing for small instruments, amplifiers, intercoms, public address systems, and for any small or medium sized item that is being prepared for the market and where price and appearance is a major factor

Fig. 6

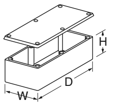

Die Cast Enclosures: Easily machined units useful as instrument and meter cases • Close-fitted flange lids fasten to bosses in the body with counter sunk screws • Aluminum alloy (380) offers excellent screening properties. • Lid adds .156" (3.96mm) to height of enclosure.

Fig. 7

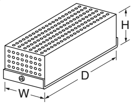

LMB Perforated Box Chassis: • LMB perforated boxes are adaptable wherever heat dissipation is required, as well as utmost shielding • Plain aluminum

Fig. 8

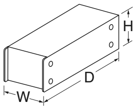

UNI-PAC Universal Packaging System: A quality cabinet, engineered for versatility and value, at an affordable price. The Uni-Pac is constructed with .063" (1.60mm) aluminum, with .125" (3.18mm) aluminum sides and four adhesive rubber feet. The top, bottom, and sides are finished in textured blue, the front and rear panels are finished in semi-gloss white. • Interchangeable front, back, top and bottom panels

Fig. 9

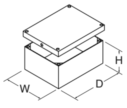

Cap Cover Chassis: • Cap cover construction enables the builder to use either the top or the bottom of the chassis for construction • Chassis can also be mounted on its side and construction can be on both top and bottom at the same time • Built from Aircraft quality .040" (1.02mm) aluminum, Type 3003-H14 • Plain aluminum

Fig.10

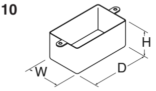

Drawn Miniature Box: • Cold rolled steel, with mounting ears • Made of steel only • Covers are soldered-in when used in assembly • Not fabricated (holes punched in the box) • Plain steel

Dimensions – Inches (mm) D x W x H	Digi-Key Part No.	Price Each 1	10	100
Fig. 1 - Aluminum Boxes				
2.75 x 2.13 x 2.75 (69.85 x 53.98 x 69.85)	L100-ND◆	6.44	5.35	4.83
3.50 x 2.13 x 1.63 (88.90 x 53.98 x 41.28)	L101-ND◆	6.12	5.08	4.59
4.00 x 2.25 x 2.25 (101.60 x 57.15 x 57.15)	L102-ND◆	7.76	6.45	5.82
5.00 x 2.25 x 2.25 (127.00 x 57.15 x 57.15)	L103-ND◆	8.32	6.91	6.24
5.00 x 4.00 x 3.00 (127.00 x 101.60 x 76.20)	L104-ND◆	11.62	9.65	8.72
6.00 x 5.00 x 4.00 (152.40 x 127.00 x 101.60)	L105-ND	16.24	13.48	12.18
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L106-ND	16.44	13.65	12.33
8.00 x 6.00 x 3.50 (203.20 x 152.40 x 88.90)	L107-ND◆	20.00	16.60	15.00
10.00 x 6.00 x 3.50 (254.00 x 152.40 x 88.90)	L108-ND◆	23.66	19.64	17.75
12.00 x 7.00 x 4.00 (304.80 x 177.80 x 101.60)	L109-ND◆	32.86	27.28	24.65
17.00 x 5.00 x 4.00 (431.80 x 127.00 x 101.60)	L110-ND◆	36.08	29.95	27.06
Fig. 2 - Aluminum Boxes (Snap-Together)				
2.75 x 2.13 x 1.63 (69.85 x 53.98 x 41.28)	L111-ND◆	5.70	4.74	4.28
2.75 x 2.13 x 2.75 (69.85 x 53.98 x 69.85)	L112-ND	6.44	5.35	4.83
3.25 x 2.13 x 1.13 (82.55 x 53.98 x 28.58)	L113-ND◆	5.70	4.74	4.28
4.00 x 2.13 x 1.63 (101.60 x 53.98 x 41.28)	L114-ND◆	6.44	5.35	4.83
4.00 x 2.00 x 2.75 (101.60 x 50.80 x 69.85)	L115-ND◆	7.78	6.46	5.84
5.00 x 2.25 x 2.25 (127.00 x 57.15 x 57.15)	L116-ND◆	8.32	6.91	6.24
5.00 x 4.00 x 3.00 (127.00 x 101.60 x 76.20)	L117-ND◆	11.62	9.65	8.72
6.00 x 5.00 x 4.00 (152.40 x 127.00 x 101.60)	L118-ND◆	16.24	13.48	12.18
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L119-ND◆	16.44	13.65	12.33
8.00 x 6.00 x 3.50 (203.20 x 152.40 x 88.90)	L120-ND	20.00	16.60	15.00
10.00 x 6.00 x 3.50 (254.00 x 152.40 x 88.90)	L121-ND	23.66	19.64	17.75
Fig. 2 - Crown Royal Series Aluminum Boxes				
2.25 x 1.50 x 1.38 (57.15 x 38.10 x 35.05)	L198-ND◆	6.82	5.67	5.12
5.50 x 3.00 x 1.25 (139.70 x 76.20 x 31.75)	L200-ND◆	12.82	10.65	9.62
5.25 x 3.00 x 2.13 (133.35 x 76.20 x 53.98)	L201-ND	13.44	11.16	10.08
6.25 x 3.50 x 2.13 (158.75 x 88.90 x 53.98)	L202-ND	16.90	14.03	12.68
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L203-ND	25.50	21.17	19.13
8.00 x 6.00 x 4.50 (203.20 x 152.40 x 114.30)	L204-ND	34.40	28.56	25.80
Fig. 3 - Aluminum Consoles				
4.00 x 3.00 x 2.00 (101.60 x 76.20 x 50.80)	L122-ND◆	10.58	8.79	7.94
5.00 x 3.00 x 2.00 (127.00 x 76.20 x 50.80)	L123-ND◆	12.18	10.11	9.14
6.00 x 4.00 x 2.25 (152.40 x 101.60 x 57.15)	L124-ND◆	14.56	12.09	10.92
7.00 x 5.00 x 2.50 (177.80 x 127.00 x 63.50)	L125-ND	16.78	13.93	12.59
8.00 x 6.00 x 2.75 (203.20 x 152.40 x 69.85)	L126-ND◆	22.06	18.31	16.55
9.00 x 7.00 x 3.00 (228.60 x 177.80 x 76.20)	L127-ND◆	24.28	20.16	18.21
11.00 x 8.00 x 3.50 (279.40 x 203.20 x 88.90)	L129-ND◆	36.32	30.15	27.24
13.00 x 10.00 x 4.00 (330.20 x 254.00 x 101.60)	L130-ND	49.30	40.92	36.98
15.00 x 15.00 x 4.50 (381.00 x 381.00 x 114.30)	L131-ND◆	80.38	66.72	60.29
Fig. 3 - Uni-Cab Universal Cabinet System				
5.00 x 5.00 x 1.75 (127.00 x 127.00 x 44.45)	L155-ND◆	36.18	30.03	27.14
6.00 x 6.00 x 2.75 (152.40 x 152.40 x 69.85)	L156-ND◆	42.06	34.91	31.55
7.00 x 6.00 x 3.50 (177.80 x 152.40 x 88.90)	L157-ND	44.84	37.22	33.63
5.00 x 7.00 x 3.00 (127.00 x 177.80 x 76.20)	L158-ND	41.56	34.50	31.17
6.00 x 6.00 x 5.00 (152.40 x 152.40 x 127.00)	L159-ND◆	48.12	39.94	36.09
10.00 x 10.00 x 3.00 (254.00 x 254.00 x 76.20)	L161-ND◆	66.38	55.10	49.79
10.00 x 12.00 x 4.00 (254.00 x 304.80 x 101.60)	L162-ND◆	82.24	68.26	61.68
Fig. 4 - Uni-Cab Universal Cabinet System				
6.00 x 4.00 x 2.00 (152.40 x 101.60 x 50.80)	L154-ND	32.38	26.88	24.29
10.00 x 6.00 x 4.00 (254.00 x 152.40 x 101.60)	L160-ND◆	53.12	44.09	39.84

Dimensions – Inches (mm) D x W x H	Digi-Key Part No.	Price Each 1	10	100
Fig. 5 - Small Cabinets — RoHS Compliant				
5.00 x 6.00 x 4.00 (127.00 x 152.40 x 101.60)	L147-ND	33.00	27.39	24.75
6.00 x 8.00 x 5.00 (152.40 x 203.20 x 127.00)	L148-ND	48.44	40.21	36.33
Fig. 6 - Die Cast Enclosures — RoHS Compliant				
3.63 x 1.50 x 1.06 (92.20 x 38.10 x 26.99)	L149-ND	10.00	8.30	7.50
4.38 x 2.38 x 1.06 (111.13 x 60.33 x 26.99)	L150-ND	11.30	9.38	8.48
4.69 x 3.69 x 2.06 (119.08 x 93.65 x 52.40)	L151-ND	18.04	14.98	13.53
7.39 x 4.70 x 2.06 (187.73 x 119.46 x 52.40)	L152-ND	28.68	23.81	21.51
7.39 x 4.70 x 3.06 (187.73 x 119.46 x 77.80)	L153-ND	30.92	25.67	23.19
Fig. 7 - LMB Perforated Box Chassis				
4.25 x 2.25 x 1.25 (107.95 x 57.15 x 31.75)	L164-ND◆	9.54	7.92	7.16
4.00 x 2.25 x 2.25 (101.60 x 57.15 x 57.15)	L167-ND◆	11.60	9.63	8.70
3.75 x 3.00 x 2.13 (95.25 x 76.20 x 53.98)	L169-ND	13.22	10.98	9.92
5.25 x 3.00 x 2.13 (133.35 x 76.20 x 53.98)	L170-ND◆	14.98	12.44	11.24
8.00 x 3.00 x 2.75 (203.20 x 76.20 x 69.85)	L171-ND◆	21.94	18.21	16.46
6.25 x 3.50 x 2.13 (158.75 x 88.90 x 53.98)	L172-ND◆	18.88	15.67	14.16
5.50 x 3.00 x 1.25 (139.70 x 76.20 x 31.75)	L173-ND◆	14.48	12.02	10.86
3.00 x 4.00 x 5.00 (76.20 x 101.60 x 127.00)	L174-ND◆	19.36	16.07	14.52
6.00 x 4.00 x 3.00 (152.40 x 101.60 x 76.20)	L175-ND◆	22.52	18.70	16.89
6.00 x 4.00 x 5.00 (152.40 x 101.60 x 127.00)	L176-ND◆	27.38	22.73	20.54
4.00 x 4.00 x 2.00 (101.60 x 101.60 x 50.80)	L177-ND	14.66	12.17	11.00
10.00 x 4.00 x 2.50 (254.00 x 101.60 x 63.50)	L178-ND◆	28.36	23.54	21.27
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L179-ND◆	28.14	23.36	21.11
8.00 x 6.00 x 4.50 (203.20 x 152.40 x 114.30)	L180-ND◆	39.46	32.76	29.60
Fig. 8 - UNI-PAC Universal Packaging System				
7.00 x 12.00 x 1.75 (177.80 x 304.80 x 44.45)	L181-ND◆	89.52	74.31	67.14
9.00 x 12.00 x 3.50 (228.60 x 304.80 x 88.90)	L182-ND◆	109.86	91.19	82.40
9.00 x 17.00 x 3.50 (228.60 x 431.80 x 88.90)	L183-ND◆	128.08	106.31	96.06
12.00 x 17.00 x 3.50 (304.80 x 431.80 x 88.90)	L184-ND	149.68	124.24	112.26
7.00 x 14.00 x 5.25 (177.80 x 355.60 x 133.35)	L185-ND◆	117.98	97.93	88.49
9.00 x 17.00 x 5.25 (228.60 x 431.80 x 133.35)	L186-ND◆	142.58	118.35	106.94
12.00 x 17.00 x 5.25 (304.80 x 431.80 x 133.35)	L187-ND◆	168.10	139.53	126.08
14.00 x 17.00 x 7.00 (355.60 x 431.80 x 177.80)	L189-ND◆	205.34	170.44	154.01
Fig. 9 - Cap Cover Chassis — RoHS Compliant				
5.00 x 7.00 x 2.00 (127.00 x 177.80 x 50.80)	L190-ND	24.00	19.92	18.00
5.00 x 7.00 x 3.00 (127.00 x 177.80 x 76.20)	L191-ND	25.84	21.45	19.38
6.00 x 4.00 x 3.00 (152.40 x 101.60 x 76.20)	L192-ND	23.12	19.19	17.34
7.00 x 10.00 x 3.00 (177.80 x 254.00 x 76.20)	L193-ND	36.96	30.68	27.72
8.00 x 10.00 x 2.00 (203.20 x 254.00 x 50.80)	L194-ND	33.68	27.96	25.26
8.00 x 10.00 x 3.00 (203.20 x 254.00 x 76.20)	L195-ND	38.58	32.03	28.94
8.00 x 10.00 x 4.00 (203.20 x 254.00 x 101.60)	L196-ND	41.66	34.58	31.25
8.00 x 12.00 x 3.00 (203.20 x 304.80 x 76.20)	L197-ND	42.80	35.53	32.10
Fig. 10 - Drawn Miniature Box with Ears (Lids Sold Separately)				
1.75 x 1.25 x .88 (44.45 x 31.75 x 22.23)	L206-ND◆	2.14	1.78	1.61
2.00 x 1.75 x .75 (50.80 x 44.45 x 19.05)	L208-ND◆	2.14	1.78	1.61
2.00 x 1.75 x 1.00 (50.80 x 44.45 x 25.40)	L210-ND◆	2.14	1.78	1.61
2.00 x 2.00 x 1.25 (50.80 x 50.80 x 31.75)	L212-ND	2.14	1.78	1.61
Optional Lids for Drawn Miniature Boxes				
Lid for L206-ND Box	L205-ND◆	1.46	1.22	1.10
Lid for L208-ND Box	L207-ND	1.46	1.22	1.10
Lid for L210-ND Box	L209-ND	1.46	1.22	1.10
Lid for L212-ND Box	L211-ND◆	1.46	1.22	1.10

◆ ***RoHS Compliant***

ISO 9002 CERTIFIED MANUFACTURER

KEYSTONE ELECTRONICS CORP Instrument Boxes

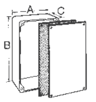

• **Panels:** Mount flush inside of case, holes drilled in panel positioned for the inserts • **Phenolic Panel:** .062" thick glossy black MIL-P-3115C • **Aluminum Panel:** .062" thick, #5052-H34 per QQ 318 C • **Boxes:** Precision molded with rounded outside corners, and ≤ 3/16" x 3/16" (4.76mm x 4.76mm) deep threaded brass inserts in base.

Note 1: 703 and 704 have 4-40 tapped hole in each corner - no inserts

Note 2: 705 mounting holes untapped - Use #4 self tapping screw.

Dimensions Inches (mm)			Case Only		Black Phenolic Panel Only		Aluminum Panel Only	
A	B	C	Digi-Key Part No.	Price Each	Digi-Key Part No.	Price Each	Digi-Key Part No.	Price Each
2.88 (73.15)	4.00 (101.60)	1.56 (39.62)	703K-ND◆	3.63	2042K-ND◆	1.58	2044K-ND◆	2.28
2.88 (73.15)	4.00 (101.60)	1.56 (39.62)	705K-ND	3.58	2042K-ND◆	1.58	2044K-ND◆	2.28
3.13 (79.50)	5.88 (149.35)	2.25 (57.15)	704K-ND◆	12.21	2043K-ND◆	2.37	2045K-ND◆	3.71
3.75 (95.25)	6.25 (158.75)	2.00 (50.80)	700K-ND◆	8.25	2037K-ND◆*	3.58	2046K-ND◆	3.41
5.25 (133.35)	6.81 (172.97)	2.31 (58.67)	701K-ND◆	15.15	2038K-ND◆*	4.95	2047K-ND◆	4.65
7.38 (187.45)	8.38 (212.85)	3.00 (76.20)	702K-ND◆	26.34	2039K-ND◆*	10.83	2048K-ND◆	10.44

◆ ***RoHS Compliant*** * .093" Thick

Instrument Boxes

RoHS COMPLIANT

Economical cases molded of high impact material. Mating cover has interlocking flange on lid, countersunk holes for flush mounting. Internal grooved guides to hold PC boards and circuit cards from .062 to .093 thick. Ideal for prototype or production usage. • Low cost • Sturdy construction

Cases supplied with cover and mounting screws

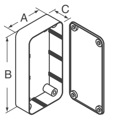

Dimensions Inches (mm)			Color/ Material	Digi-Key Part No.	Price Each		
A	B	C			1	10	100
2.50 (63.50)	4.75 (120.65)	1.40 (35.56)	Blue Styrene	762K-ND	5.33	4.92	2.96
2.88 (73.03)	4.00 (101.60)	1.56 (39.67)	Black ABS	706K-ND	7.62	7.12	4.91
3.75 (95.25)	6.25 (158.75)	2.00 (50.80)	Black ABS	707K-ND	12.03	11.23	7.70

GC ELECTRONICS™

Nibbler Tool

For Panels, Boxes

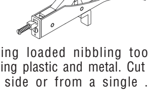

Spring loaded nibbling tool for cutting plastic and metal. Cut from the side or from a single .375" (9.52mm) hole. Will cut up to 18 AWG steel or .062" (1.57mm) copper, brass, aluminum or plastics.

GC395-ND Nibbler Tool ... **$12.55**

SERPAC *Electronic Enclosures*

Plastic Electronic Enclosures

Models (excluding CA Series) are available with or without 9-volt battery compartments, come with vertical card guides and are bossed for mounting horizontal circuit boards. Made from ABS GSM UL Rated 94 HB plastic.

CA Series Only: **Features:** 0 to 6 button configurations • Designed to hold 20mm coin cell batteries • Assembles with two or three screws.

Fig. 1 — A Series

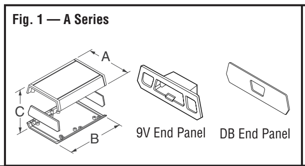

Fig. 2 — Standard/ Standard with Insert

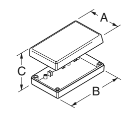

Fig. 3 — Standard Enclosure Copper Clad Board

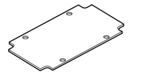

Fig. 4 — Gasket

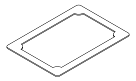

Fig. 5 — 9V Standard/ 9V Standard with Insert

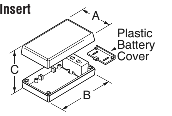

Fig. 6 — Slanted

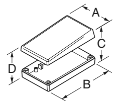

Fig. 7 — 9V Slanted

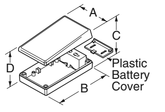

Fig. 8 — C and CH Series

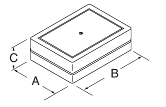

Fig. 9 — M4, M6, M8 Series

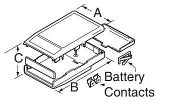

Fig. 10 — H Series

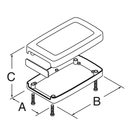

9V H Series

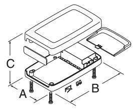

Fig. 11 — G Series

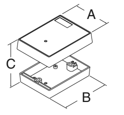

Fig. 12 — CA-4 Series

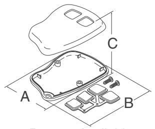

2-4 Buttons Available

Fig. 13 — CA-6 Series

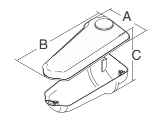

0-4 Buttons Available

Fig. 14 — CA-8 Series

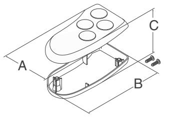

0-5 Buttons Available

Fig. 15 — CA-10 Series

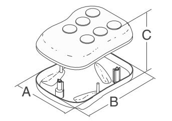

0-6 Buttons Available

Accessories

Description	Digi-Key Part No.	Price Each 1	25	50	Serpac Series No.
H-65 Series Optional End Panel, Clear	SRH65-FPC-ND◆	2.61	2.08	1.79	2105CL
H-65 Series Optional End Panel, Infrared	SRH65-FPI-ND◆	3.43	2.73	2.35	2105IR
Rubber Feet 1xx, 2xx	SR50-ND◆	.38	.30	.26	SR50
Rubber Feet, Bumpon, Black	SR51-ND◆	.47	.38	.33	51
Rubber Feet For A Series	SR52-ND◆	.47	.38	.33	52
100 pc. Standoff Screws, Adhesive	SR60KIT-ND	72.45	57.50	49.45	60 KIT
100 pc. Standoff Posts, Adhesive	SR61KIT-ND	69.30	55.00	47.30	61 KIT
Standoff with Hole	SR60-ND◆	.44	.35	.31	60
Standoff with Post	SR61-ND◆	.41	.33	.28	61
Glue for SR60 and SR61	SR65-ND◆	13.48	10.70	9.21	65
Battery Clip; dbl. contact for M-6, M-8, H65-9V, H65-AA H67-9V, and H67-AA	SR71-ND	.68	.54	.47	71
Battery Clip; single contact for M-6, M-8, H65-9V, H65-AA, H67-9V, and H67-AA boxes	SR72-ND◆	.68	.54	.47	72
Battery Clip; battery contacts for M-4 boxes	SR74-ND	.68	.54	.47	74
Battery Clip; battery contacts for M-4 boxes	SR75-ND	.68	.54	.47	75
Screw #0 x 9/16 Flat; fits M-4	SR6001-ND	.22	.18	.16	6001
Screw #2 x 1/2 Flat; fits M-6, M-8, C-4, CH-4 and H Series	SR6003-ND	.22	.18	.16	6003
Screw #4 x 1/4 H/L Pan; fits 110-I, 05-S, 9V, 15-S, 9V Standoff Holes and All Bosses	SR6004-ND◆	.22	.18	.16	6004
Screw #4 x 3/8 H/L Pan; fits All S and SL Series	SR6005-ND◆	.22	.18	.16	6005
Screw #4 x 1/2 Flat; fits A Series and Wall-Mount Plates	SR6006-ND◆	.22	.18	.16	6006
Screw #2 x 3/4 Flat; fits M-6, IND M-8, IND C-8, CH-8	SR6007-ND◆	.22	.18	.16	6007
Screw #2 x 5/8 Flat; fits C-6 and CH-6	SR6008-ND	.22	.18	.16	6008

Dimensions — Inch (mm)				Digi-Key	Price Each			Serpac
A	B	C	D	Part No.	1	25	50	Series No.
Fig. 1 — A Series								
2.60 (66.04)	4.25 (107.95)	.88 (22.35)	—	SRA20☐-ND	6.71	5.33	4.58	A-20
2.60 (66.04)	4.25 (107.95)	1.12 (28.45)	—	SRA21☐-ND◆	6.90	5.48	4.71	A-21
3.35 (85.09)	5.30 (134.62)	1.50 (38.10)	—	SRA27☐-ND	10.11	8.03	6.91	A-27
5.10 (129.54)	5.30 (134.62)	1.71 (43.43)	—	SRA31☐-ND◆	12.82	10.18	8.76	A-31
5.00 (127.00)	7.10 (180.34)	1.30 (33.02)	—	SRA41☐-ND◆	14.36	11.40	9.81	A-41
5.00 (127.00)	7.10 (180.34)	1.62 (41.15)	—	SRA42☐-ND	15.50	12.30	10.58	A-42
Fig. 1 — A Series - 9-Volt								
2.60 (66.04)	4.30 (109.22)	1.10 (27.94)	—	SRA21-9V☐-ND◆	8.66	6.88	5.92	A-219V
3.35 (85.09)	5.30 (134.62)	1.50 (38.10)	—	SRA27-9V☐-ND	13.61	10.80	9.29	A-279V
5.10 (129.54)	5.30 (134.62)	1.80 (45.72)	—	SRA31-9V☐-ND	16.85	13.38	11.51	A-319V
5.00 (127.00)	7.10 (180.34)	1.30 (33.02)	—	SRA41-9V☐-ND	16.79	13.33	11.46	A-419V
5.00 (127.00)	7.10 (180.34)	1.60 (40.64)	—	SRA42-9V☐-ND◆	17.92	14.23	12.24	A-429V
Fig. 2 — Standard								
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111☐-ND	4.88	3.88	3.34	111
2.27 (57.67)	3.63 (92.20)	2.01 (51.05)	—	SR112☐-ND	5.20	4.13	3.55	112
2.27 (57.67)	3.63 (92.20)	2.51 (63.75)	—	SR113☐-ND	5.42	4.30	3.70	113
2.60 (66.04)	4.10 (104.14)	0.91 (23.11)	—	SR021☐-ND◆	4.69	3.73	3.21	021
3.25 (82.55)	4.38 (111.25)	0.90 (22.86)	—	SR031☐-ND	5.64	4.48	3.85	031
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131☐-ND◆	6.21	4.93	4.24	131
3.25 (82.55)	4.38 (111.25)	1.41 (35.81)	—	SR032☐-ND	6.21	4.93	4.24	032
3.25 (82.55)	4.38 (111.25)	2.01 (51.05)	—	SR132☐-ND	6.65	5.28	4.54	132
3.25 (82.55)	4.38 (111.25)	1.90 (48.26)	—	SR033☐-ND	6.65	5.28	4.54	033
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR133☐-ND◆	7.02	5.58	4.80	133
3.25 (82.55)	5.63 (143.00)	1.50 (38.10)	—	SR151☐-ND◆	7.31	5.80	4.99	151
3.25 (82.55)	5.63 (143.00)	1.40 (35.56)	—	SR052☐-ND◆	7.12	5.65	4.86	052
3.25 (82.55)	5.63 (143.00)	2.00 (50.80)	—	SR152☐-ND	7.69	6.10	5.25	152
3.25 (82.55)	5.63 (143.00)	1.90 (48.26)	—	SR053☐-ND	7.69	6.10	5.25	053
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR153☐-ND	8.32	6.60	5.68	153
3.26 (82.80)	5.63 (143.00)	0.91 (23.11)	—	SR051☐-ND◆	6.68	5.30	4.56	051
4.88 (123.95)	6.88 (174.75)	0.90 (22.86)	—	SR071☐-ND	9.73	7.73	6.65	071
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR171☐-ND◆	10.65	8.45	7.27	171
4.88 (123.95)	6.88 (174.75)	1.41 (35.81)	—	SR072☐-ND◆	11.40	9.05	7.79	072
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172☐-ND	11.69	9.28	7.98	172
4.88 (123.95)	6.88 (174.75)	1.91 (48.51)	—	SR073☐-ND	11.53	9.15	7.87	073
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR173☐-ND◆	12.29	9.75	8.39	173
4.88 (123.95)	14.21 (360.93)	2.01 (51.05)	—	SR182☐-ND	18.02	14.30	12.30	182
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191☐-ND◆	16.03	12.73	10.95	191
6.34 (161.04)	9.50 (241.30)	2.50 (63.50)	—	SR193☐-ND◆	16.73	13.28	11.42	193
6.35 (161.29)	9.50 (241.30)	0.91 (23.11)	—	SR091☐-ND◆	14.90	11.83	10.17	091
6.35 (161.29)	9.50 (241.30)	1.90 (48.26)	—	SR093☐-ND◆	15.72	12.48	10.73	093
Fig. 2 — Standard with Insert (Non-Textured Top)								
2.25 (57.15)	3.60 (91.44)	1.00 (25.40)	—	SR110-I☐-ND	4.19	3.33	2.86	110-I
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111-I☐-ND	4.88	3.88	3.34	111-I
2.60 (66.04)	4.10 (104.14)	0.91 (23.11)	—	SR021-I☐-ND	4.69	3.73	3.21	021-I
3.25 (82.55)	4.38 (111.25)	0.90 (22.86)	—	SR031-I☐-ND	5.64	4.48	3.85	031-I
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131-I☐-ND	6.21	4.93	4.24	131-I
3.25 (82.55)	4.38 (111.25)	1.91 (48.51)	—	SR033-I☐-ND	6.65	5.28	4.54	033-I
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR133-I☐-ND◆	7.02	5.58	4.80	133-I
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR151-I☐-ND◆	7.31	5.80	4.99	151-I
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR153-I☐-ND	8.32	6.60	5.68	153-I
3.26 (82.80)	5.63 (143.00)	0.91 (22.86)	—	SR051-I☐-ND	6.68	5.30	4.56	051-I
3.26 (82.80)	5.63 (143.00)	1.91 (48.51)	—	SR053-I☐-ND	7.69	6.10	5.25	053-I
4.88 (123.95)	6.88 (174.75)	0.90 (22.86)	—	SR071-I☐-ND	9.73	7.73	6.65	071-I
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR171I☐-ND	10.65	8.45	7.27	171I
4.88 (123.95)	6.88 (174.75)	1.41 (35.81)	—	SR072-I☐-ND	11.40	9.05	7.79	072-I
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172-I☐-ND	11.69	9.28	7.98	172-I
4.88 (123.95)	6.88 (174.75)	1.91 (48.51)	—	SR073-I☐-ND	11.53	9.15	7.87	073-I
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR173-I☐-ND◆	12.29	9.75	8.39	173-I
4.88 (123.95)	14.21 (360.93)	2.01 (51.05)	—	SR182I☐-ND	18.02	14.30	12.30	182I
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191I☐-ND◆	16.03	12.73	10.95	191-I
6.34 (161.04)	9.50 (241.30)	2.50 (63.50)	—	SR193I☐-ND	16.73	13.28	11.42	193I
6.35 (161.29)	9.50 (241.30)	0.91 (23.11)	—	SR091-I☐-ND	14.90	11.83	10.17	091-I
6.35 (161.29)	9.50 (241.30)	1.90 (48.26)	—	SR093I☐-ND	15.72	12.48	10.73	093I
Fig. 2 — Standard Wall Mount								
3.25 (82.55)	4.38 (111.25)	0.91 (23.11)	—	SR031-W☐-ND	7.09	5.63	4.84	031-W
3.25 (82.55)	4.38 (111.25)	1.41 (35.81)	—	SR032-W☐-ND	7.62	6.05	5.21	032-W
3.25 (82.55)	4.38 (111.25)	1.91 (48.51)	—	SR033-W☐-ND	8.03	6.38	5.49	033-W
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR151-W☐-ND	9.77	7.75	6.67	151-W
3.25 (82.55)	5.63 (143.00)	2.01 (51.05)	—	SR152-W☐-ND	10.49	8.33	7.16	152-W
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR153-W☐-ND	11.03	8.75	7.53	153-W
3.26 (82.80)	5.63 (143.00)	0.91 (23.11)	—	SR051-W☐-ND	9.77	7.75	6.67	051-W
3.26 (82.80)	5.63 (143.00)	1.41 (35.81)	—	SR052-W☐-ND	10.49	8.33	7.16	052-W
3.26 (82.80)	5.63 (143.00)	1.91 (48.51)	—	SR053-W☐-ND	10.80	8.58	7.38	053-W
Fig. 2 — Standard Wall Mount with Insert								
3.25 (82.55)	4.38 (111.25)	0.91 (23.11)	—	SR031-WI☐-ND	7.09	5.63	4.84	031-WI
3.25 (82.55)	4.38 (111.25)	1.91 (48.51)	—	SR033-WI☐-ND	8.03	6.38	5.49	033-WI
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR151-WI☐-ND	9.77	7.75	6.67	151-WI
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR153-WI☐-ND	11.03	8.75	7.53	153-WI
3.26 (82.80)	5.63 (143.00)	0.91 (23.11)	—	SR051-WI☐-ND	9.77	7.75	6.67	051-WI
3.26 (82.80)	5.63 (143.00)	1.91 (48.51)	—	SR053-WI☐-ND	10.80	8.58	7.38	053-WI
Fig. 3 — Standard Enclosure Prototyping Boards — .1" (2.54mm) Grid Perfboard — RoHS Compliant								
For Box #'s "SRx1x"				SR310-ND	10.74	8.53	7.34	310SR
For Box #'s "SRx3x"				SR330-ND	20.95	16.63	14.30	330SR
For Box #'s "SRx5x"				SR350-ND	24.38	19.35	16.65	350SR
For Box #'s "SRx7x"				SR370-ND	31.15	24.73	21.27	370SR
Fig. 3 — Standard Enclosure Prototyping Boards — Copper Clad Board (1 Side)								
For Box #'s "SRx1x"				SR410-ND◆	10.74	8.53	7.34	410SR
For Box #'s "SRx3x"				SR430-ND◆	11.75	9.33	8.02	430SR
For Box #'s "SRx5x"				SR450-ND	12.79	10.15	8.73	450SR
For Box #'s "SRx7x"				SR470-ND	16.16	12.83	11.03	470SR
Fig. 4 — Gaskets — RoHS Compliant								
Gasket, 3.63" x 2.27" (92.20mm x 57.66mm); fits 111, 111-1, 112, and 113				SRPS-11-ND	4.06	3.23	2.78	PS-11
Gasket, 4.38" x 3.25" (111.25mm x 82.55mm); fits 131, 131-1, 132, 132-1, 133, and 133-1				SRPS-13-ND	4.50	3.58	3.08	PS-13
Gasket, 5.63" x 3.25" (143.00mm x 82.55mm); fits 151, 151-1, 152, 153, and 153-1				SRPS-15-ND	5.32	4.23	3.64	PS-15
Gasket, 6.88" x 4.88" (174.75mm x 123.95mm); fits 171, 172, 173, and 17-S				SRPS-17-ND	5.80	4.60	3.96	PS-17
Gasket, 6.34" x 9.50" (161.04mm x 241.30mm); fits 091, 092, 093, 191, 192, and 193				SRPS-19-ND	6.02	4.78	4.11	PS-19
Fig. 5 — 9-Volt Standard								
2.60 (66.04)	4.10 (104.14)	1.51 (38.10)	—	SR211☐-ND◆	5.95	4.73	4.07	211
3.25 (82.55)	4.38 (111.25)	1.51 (38.35)	—	SR231☐-ND◆	7.31	5.80	4.99	231
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR232☐-ND	7.72	6.13	5.27	232
3.25 (82.55)	4.38 (111.25)	2.51 (63.75)	—	SR233☐-ND	8.10	6.43	5.53	233
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR251☐-ND◆	8.95	7.10	6.11	251
3.25 (82.55)	5.63 (143.00)	2.00 (50.80)	—	SR252☐-ND	9.54	7.58	6.52	252
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR253☐-ND	9.99	7.93	6.82	253
4.88 (123.95)	6.88 (174.75)	1.51 (38.35)	—	SR271☐-ND	11.91	9.45	8.13	271
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR272☐-ND	12.76	10.13	8.71	272
4.88 (123.95)	6.88 (174.75)	2.51 (63.75)	—	SR273☐-ND	12.98	10.30	8.86	273

Box color ☐: **B** = Black, **G** = Gray, **A** = Almond ◆ ***RoHS Compliant***

(Continued)

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Dimensions — Inch (mm)				Digi-Key	Price Each			Serpac
A	B	C	D	Part No.	1	25	50	Series No.
Fig. 5 — 9-Volt Standard with Insert (Non-Textured Top)								
2.60 (66.04)	4.10 (104.14)	1.51 (38.35)	—	SR221-I□-ND	5.95	4.73	4.07	211-I
3.25 (82.55)	4.38 (111.25)	1.51 (38.35)	—	SR231-I□-ND	7.31	5.80	4.99	231-I
3.25 (82.55)	4.38 (111.25)	2.51 (63.75)	—	SR233-I□-ND	8.10	6.43	5.53	233-I
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR251-I□-ND	8.95	7.10	6.11	251-I
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR253-I□-ND	9.99	7.93	6.82	253-I
4.88 (123.95)	6.88 (174.75)	1.51 (38.35)	—	SR271-I□-ND	11.91	9.45	8.13	271-I
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR272-I□-ND	12.76	10.13	8.71	272-I
4.88 (123.95)	6.88 (174.75)	2.51 (63.75)	—	SR273-I□-ND	12.98	10.30	8.86	273-I
Fig. 5 — 9-Volt Standard Wall Mount								
3.25 (82.55)	4.38 (111.25)	1.51 (38.35)	—	SR231-W□-ND	8.06	6.40	5.51	231-W
3.25 (82.55)	4.38 (111.25)	2.01 (51.05)	—	SR232-W□-ND	8.57	6.80	5.85	232-W
3.25 (82.55)	4.38 (111.25)	2.51 (63.75)	—	SR233-W□-ND	8.95	7.10	6.11	233-W
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR251-W□-ND	10.71	8.50	7.31	251-W
3.25 (82.55)	5.63 (143.00)	2.01 (51.05)	—	SR252-W□-ND	11.47	9.10	7.83	252-W
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR253-W□-ND	11.66	9.25	7.96	253-W
Fig. 5 — 9-Volt Standard Wall Mount with Insert (Non-Textured Top)								
3.25 (82.55)	4.38 (111.25)	1.51 (38.35)	—	SR231-WI□-ND	8.06	6.40	5.51	231-WI
3.25 (82.55)	4.38 (111.25)	2.51 (63.75)	—	SR233-WI□-ND	8.95	7.10	6.11	233-WI
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR251-WI□-ND	10.71	8.50	7.31	251-WI
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR253-WI□-ND	11.66	9.25	7.96	253-WI
Fig. 6 — Standard Slant								
3.25 (82.55)	5.63 (143.00)	0.90 (22.86)	0.39 (9.91)	SR05S□-ND	6.68	5.30	4.56	05S
3.25 (82.55)	5.63 (143.00)	1.50 (38.10)	0.97 (24.64)	SR15-S□-ND◆	7.31	5.80	4.99	15-S
6.88 (174.75)	4.88 (123.95)	1.88 (47.75)	0.90 (22.86)	SR07S□-ND◆	9.73	7.73	6.65	07-S
6.88 (174.75)	4.88 (123.95)	2.48 (62.99)	1.50 (38.10)	SR17S□-ND	10.65	8.45	7.27	17-S
Fig. 6 — Standard Slant Wall Mount								
3.25 (82.55)	5.63 (143.00)	0.90 (22.86)	0.39 (9.91)	SR05SW□-ND	7.09	5.63	4.84	05-SW
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	1.0 (25.4)	SR15SW□-ND	8.03	6.38	5.49	15-SW
Fig. 6 — 9-Volt Standard Slant Wall Mount								
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	1.0 (25.4)	SR25SW□-ND	9.64	7.65	6.58	25-SW
Fig. 7 — 9-Volt Slanted								
3.25 (82.55)	5.63 (143.00)	1.50 (38.10)	0.97 (24.64)	SR25-S□-ND	8.95	7.10	6.11	25-S
6.88 (174.75)	4.88 (123.95)	2.48 (62.99)	1.50 (38.10)	SR27S□-ND	11.91	9.45	8.13	27-S
Fig. 8 — C Series								
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4□-ND	3.53	2.80	2.41	C-4
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6□-ND	3.53	2.80	2.41	C-6
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8□-ND◆	3.53	2.80	2.41	C-8
1.85 (46.99)	5.00 (127.00)	1.00 (25.40)	—	SCR28□-ND◆	4.60	3.65	3.14	C-28
2.30 (58.42)	3.25 (82.55)	0.80 (20.32)	—	SCR10□-ND	4.06	3.23	2.78	C-10
2.40 (60.96)	3.75 (95.25)	1.00 (25.40)	—	SCR12□-ND	4.44	3.53	3.04	C-12
Fig. 8 — C Series with Key Holder								
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4KH□-ND	5.01	3.98	3.42	C-4 KH
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6KH□-ND	5.01	3.98	3.42	C-6 KH
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8KH□-ND	5.01	3.98	3.42	C-8 KH
Fig. 8 — C Series with Pocket Clip								
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4PC□-ND	6.58	5.23	4.50	C-4 PC
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6PC□-ND◆	6.58	5.23	4.50	C-6 PC
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8PC□-ND	6.58	5.23	4.50	C-8 PC
1.85 (46.99)	5.00 (127.00)	1.00 (25.40)	—	SCR28PC□-ND	7.65	6.08	5.23	C-28 PC
2.30 (58.42)	3.25 (82.55)	0.80 (20.32)	—	SCR10PC□-ND	7.12	5.65	4.86	C-10 PC
2.40 (60.96)	3.75 (95.25)	1.00 (25.40)	—	SCR12PC□-ND	7.50	5.95	5.12	C-12 PC
Fig. 8 — CH Series								
2.265 (67.31)	1.515 (38.48)	0.585 (14.86)	—	SRCH-4□-ND	3.53	2.80	2.41	CH-4
2.39 (60.71)	1.74 (44.20)	0.755 (19.18)	—	SRCH-6□-ND◆	3.53	2.80	2.41	CH-6
2.40 (60.96)	1.85 (46.99)	0.925 (23.50)	—	SRCH-8□-ND◆	3.53	2.80	2.41	CH-8
Fig. 8 — CH Series with Key Holder								
2.265 (67.31)	1.515 (38.48)	0.585 (14.86)	—	SRCH-4KH□-ND	5.01	3.98	3.42	CH-4 KH
2.39 (60.71)	1.74 (44.20)	0.755 (19.18)	—	SRCH-6KH□-ND	5.01	3.98	3.42	CH-6 KH
2.40 (60.96)	1.85 (46.99)	0.925 (23.50)	—	SRCH-8KH□-ND	5.01	3.98	3.42	CH-8 KH
Fig. 8 — CH Series with Pocket Clip								
2.265 (67.31)	1.515 (38.48)	0.585 (14.86)	—	SRCH-4PC□-ND◆	6.58	5.23	4.50	CH-4 PC
2.39 (60.71)	1.74 (44.20)	0.755 (19.18)	—	SRCH-6PC□-ND	6.58	5.23	4.50	CH-6 PC
2.40 (60.96)	1.85 (46.99)	0.925 (23.50)	—	SRCH-8PC□-ND◆	6.58	5.23	4.50	CH-8 PC
Fig. 9 — M Series — RoHS Compliant								
2.20 (55.88)	2.80 (71.12)	0.71 (18.03)	—	SRM4□-ND	6.36	5.05	4.35	M-4
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6□-ND	7.88	6.25	5.38	M-6
2.40 (60.96)	6.97 (177.04)	0.86 (21.84)	—	SRM8□-ND	9.32	7.40	6.37	M-8
Fig. 9 — M Series with Pocket Clip — RoHS Compliant								
2.20 (55.88)	2.80 (71.12)	0.71 (18.03)	—	SRM4PC□-ND	8.85	7.03	6.05	M-4 PC
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6PC□-ND	10.71	8.50	7.31	M-6 PC
2.40 (60.96)	6.97 (177.04)	0.85 (21.59)	—	SRM8PC□-ND	12.76	10.13	8.71	M-8 PC
Fig. 9 — M Series with External Screws — RoHS Compliant								
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6IND□-ND	7.88	6.25	5.38	M-6 IND
2.40 (60.96)	6.97 (177.04)	0.85 (21.59)	—	SRM8IND□-ND	10.49	8.33	7.16	M-8 IND
Fig. 11 — G Series — No Insert or Access Hole — RoHS Compliant								
4.38 (111.25)	3.25 (82.55)	0.885 (22.48)	—	SRG10□-ND	7.34	5.83	5.01	G10
5.06 (128.52)	4.38 (111.25)	0.89 (22.60)	—	SRG20A-ND	8.69	6.90	5.94	G-20 ALMOND
5.06 (128.52)	4.38 (111.25)	0.89 (22.60)	—	SRG20B-ND	8.69	6.90	5.94	G-20 BLACK
6.87 (174.50)	4.38 (111.25)	0.89 (22.60)	—	SRG30A-ND	9.95	7.90	6.80	G-30 ALMOND
6.87 (174.50)	4.38 (111.25)	0.89 (22.60)	—	SRG30B-ND	9.95	7.90	6.80	G-30 BLACK
Fig. 11 — G Series with Insert and Access Hole — RoHS Compliant								
4.38 (111.25)	3.25 (82.55)	0.885 (22.48)	—	SRG10A□-ND	7.34	5.83	5.01	G10A
M Series Lenses — RoHS Compliant								
M4 Series Clear				SRM4-FPC-ND	2.46	1.95	1.68	4004CL
M4 Series Infrared				SRM4-FPI-ND	3.24	2.58	2.22	4004IR
M6/8 Series Clear				SRM6/8-FPC-ND	2.61	2.08	1.79	4008CL
M6/8 Series Infrared				SRM6/8-FPI-ND	3.43	2.73	2.35	4008IR
Fig. 10 — H Series (Standard, AC, 9V, or AA) — RoHS Compliant								
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65□-ND	7.40	5.88	5.06	H-65
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AA□-ND	8.38	6.65	5.72	H-65 AA
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AC□-ND	7.40	5.88	5.06	H-65 AC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-9V□-ND	8.13	6.45	5.55	H-65 9V
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67□-ND	7.56	6.00	5.16	H-67
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-AA□-ND	8.57	6.80	5.85	H-67 AA
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-AC□-ND	7.56	6.00	5.16	H-67 AC
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-9V□-ND	8.32	6.60	5.68	H-67 9V
3.65 (92.71)	7.20 (182.88)	1.26 (32.00)	—	SRH75□-ND	9.45	7.50	6.45	H-75
3.65 (92.71)	7.20 (182.88)	1.26 (32.00)	—	SRH75-9V□-ND	10.49	8.33	7.16	H-75 9V
3.65 (92.71)	7.20 (182.88)	1.26 (32.00)	—	SRH75-4AA□-ND	12.69	10.08	8.67	H-75 4AA
Fig. 10 — H Series with Pocket Clip								
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-PC□-ND◆	10.46	8.30	7.14	H-65 PC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AAPC□-ND◆	11.43	9.08	7.81	H-65 AA-PC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-ACPC□-ND◆	10.46	8.30	7.14	H-65 AC-PC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-9VPC□-ND	11.18	8.88	7.64	H-65 9V-PC
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-AAPC□-ND◆	11.62	9.23	7.94	H-67 AA-PC
2.75 (69.85)	4.94 (125.48)	0.28 (7.11)	—	SRH67-ACPC□-ND◆	10.62	8.43	7.25	H-67 AC-PC
2.75 (69.85)	4.94 (125.48)	0.28 (7.11)	—	SRH67-PC□-ND◆	10.62	8.43	7.25	H-67 PC
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-9VPC□-ND◆	11.37	9.03	7.77	H-67 9V-PC
EMI Enclosures (No Battery Clips)								
Fig. 1 — A Series - EMI - 9-Volt — RoHS Compliant								
3.35 (85.09)	5.30 (134.62)	1.50 (38.10)	—	SRA27E-B-ND	13.14	10.43	8.97	A-219V
Fig. 2 — Standard								
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111E-B-ND◆	6.24	4.95	4.26	111-EMI-BLACK
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131E-B-ND◆	8.00	6.35	5.47	131-EMI-BLACK
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR151E-B-ND◆	9.48	7.53	6.48	151-EMI-BLACK
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172E-B-ND◆	15.21	12.08	10.39	172-EMI-BLACK
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191E-B-ND	20.95	16.63	14.30	191-EMI-BLACK
Fig. 5 — 9-Volt Standard								
2.60 (66.04)	4.10 (104.14)	1.50 (38.10)	—	SR211E-B-ND	7.65	6.08	5.23	211-EMI-BLACK
Fig. 5 — 9-Volt with Insert (Non-Textured Top) — RoHS Compliant								
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR231E-B-ND	9.48	7.53	6.48	231-I-EMI-BLACK
Fig. 6 — Standard Slant — RoHS Compliant								
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	.968 (24.59)	SR015E-B-ND	9.48	7.53	6.48	15-S-EMI-BLACK
Fig. 9 — Remote M Series — RoHS Compliant								
2.40 (60.96)	4.15 (105.41)	.85 (21.59)	—	SRM6E-9VB-ND	10.21	8.10	6.97	M-6-EMI-BLACK

Box color □: **B** = Black, **G** = Gray, **A** = Almond ◆ ***RoHS Compliant***

Description	Digi-Key	Price Each			Serpac
	Part No.	1	25	50	Series No.
Fig. 1 — A Series Optional End Panels					
A20 Series End Panel	SRA20-□□-ND	1.86	1.48	1.27	2003
A20 Series End Panel with DB9	SR2003-DB9B-ND◆	1.98	1.58	1.36	2003 DB9 BK
A20 Series End Panel with DB25	SR2003-DB25B-ND◆	1.98	1.58	1.36	2003 DB25 BK
A21 Series End Panel	SRA21-□□-ND◆	1.86	1.48	1.27	2005
A21 9V Series Black End Panel	SRA21-9VBK-ND◆	1.83	1.45	1.25	2006 BK
A21 Series End Panel with DB9	SR2005-DB9B-ND◆	1.98	1.58	1.36	2005 DB9 BK
A21 Series End Panel with DB25	SR2005-DB25B-ND◆	1.98	1.58	1.36	2005 DB25 BK
A27 Series End Panel	SRA27-□□-ND◆	2.05	1.63	1.40	2010
A27 9V Series Black End Panel	SRA27-9VBK-ND◆	1.95	1.55	1.34	2011 BK
A27 Series End Panel with DB9	SR2010-DB9B-ND◆	2.14	1.70	1.47	2010 DB9 BK
A27 Series End Panel with DB25	SR2010-DB25B-ND	2.14	1.70	1.47	2010 DB25 BK
A31 Series End Panel	SRA31-□□-ND	3.31	2.63	2.26	2015
A31 9V Series Black End Panel	SRA31-9VBK-ND◆	2.93	2.33	2.00	2016 BK
A31 Series End Panel with DB9	SR2015-DB9B-ND	3.28	2.60	2.24	2015 DB9 BK
A31 Series End Panel with DB25	SR2015-DB25B-ND	3.28	2.60	2.24	2015 DB25 BK
A41 Series End Panel	SRA41-□□-ND	3.06	2.43	2.09	2020
A41 9V Series Black End Panel	SRA41-9VBK-ND◆	2.61	2.08	1.79	2021 BK
A41 Series End Panel with DB9	SR2020-DB9B-ND◆	2.87	2.28	1.96	2020 DB9 BK
A41 Series End Panel with DB25	SR2020-DB25B-ND	2.87	2.28	1.96	2020 DB25 BK
A42 Series End Panel	SRA42-□□-ND	3.31	2.63	2.26	2024
A42 9V Series Black End Panel	SRA42-9VBK-ND◆	2.93	2.33	2.00	2025 BK
A42 Series End Panel with DB9	SR2024-DB9B-ND◆	3.28	2.60	2.24	2024 DB9 BK
A42 Series End Panel with DB25	SR2024-DB25B-ND	3.28	2.60	2.24	2024 DB25 BK

Lens color □□ **IR** = Infrared, **CL** = Clear, **BK** = Black ◆ ***RoHS Compliant***

Dimensions — Inch (mm)			Digi-Key	Price Each			Serpac
A	B	C	Part No.	1	25	50	Series No.
Fig. 8 — C Series Translucent							
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	SCR4T□-ND	5.83	4.63	3.98	C-4 TR
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	SCR6T□-ND	5.83	4.63	3.98	C-6 TR
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	SCR8T□-ND	5.83	4.63	3.98	C-8 TR
2.30 (58.42)	3.25 (82.55)	0.80 (20.32)	SCR10T□-ND◆	6.84	5.43	4.67	C-10 TR
Fig. 9 — M Series Translucent — RoHS Compliant							
2.20 (55.88)	2.80 (71.12)	0.71 (18.03)	SRM4T□-ND	10.99	8.73	7.51	M-4 TR
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	SRM6T□-ND	13.70	10.88	9.36	M-6 TR
Fig. 10 — H Series Translucent							
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	SRH65T□-ND◆	12.82	10.18	8.76	H-65 TR
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	SRH65-AAT□-ND◆	14.55	11.55	9.94	H-65 AA TR
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	SRH65-9VT□-ND	14.18	11.25	9.68	H-65 9V TR

Translucent Box color □: **L** = Translucent Blue, **G** = Translucent Green, **S** = Translucent Gray, **R** = Translucent Red
◆ ***RoHS Compliant***

Fig.	Dimensions — Inch (mm)			Digi-Key	Price Each			Serpac
	A	B	C	Part No.	1	25	50	Series No.
CA Series — RoHS Compliant								
12	1.73 (43.94)	2.53 (64.26)	0.65 (16.51)	SRCA4-☒□-ND	5.36	4.25	3.66	CA-4
13	1.51 (38.35)	3.05 (77.47)	1.05 (26.67)	SRCA6-☒□-ND	7.62	6.05	5.21	CA-6
14	1.87 (47.50)	3.32 (84.33)	1.00 (25.40)	SRCA8-☒□-ND	8.03	6.38	5.49	CA-8
15	2.56 (65.02)	3.40 (86.36)	1.02 (25.91)	SRCA10-☒□-ND	9.45	7.50	6.45	CA-10

Number of Buttons ☒: 0 through 6 *(See figures for number of buttons available per series)*
Box color □: **B** = Black, **G** = Gray, **A** = Almond

SERPAC *Electronic Enclosures*

R-Series Enclosures

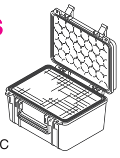

Features:

- SR-RX = Flame Retardant, UV protected, Chemical resistant
- Unbreakable light-weight structural resin
- O-Ring watertight/airtight seal
- Pressure purge valve under latch
- Ergonomic handle
- Corrosion proof
- Material: SR-R Polypropylene, SR-RX PVC

Dimensions — L x W x H (Inch)		Digi-Key	Price Each		Serpac
Internal	External	Part No.	1	10	Model No.
R-Series Case					
Without Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-□-ND◆	22.92	19.11	R-120
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-□-ND	36.00	30.02	R-300
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-□-ND	66.50	55.44	R-520
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-□-ND	109.12	90.97	R-710
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-□-ND	109.12	90.97	R-720
With Plastic Lock Without Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-PLL□-ND	31.88	26.58	R-120 PLL
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-PLL□-ND	44.96	37.49	R-300 PLL
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-PLL□-ND	75.46	62.91	R-520 PLL
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-PLL□-ND	118.08	98.44	R-710 PLL
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-PLL□-ND	118.08	98.44	R-720 PLL
With Metal Lock Without Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-MLL□-ND	47.32	39.45	R-120 MLL
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-MLL□-ND	60.40	50.36	R-300 MLL
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-MLL□-ND	90.90	75.78	R-520 MLL
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-MLL□-ND	133.52	111.31	R-710 MLL
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-MLL□-ND	133.52	111.31	R-720 MLL
With Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-F□-ND◆	26.62	22.20	R-120 FOAM
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-F□-ND	45.70	38.10	R-300 FOAM
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-F□-ND	89.56	74.67	R-520 FOAM
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-F□-ND	135.60	113.05	R-710 FOAM
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-F□-ND	153.54	128.00	R-720 FOAM
With Plastic Lock With Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-PLLF□-ND	35.58	29.67	R-120 PLL FOAM
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-PLLF□-ND	54.66	45.57	R-300 PLL FOAM
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-PLLF□-ND	98.52	82.14	R-520 PLL FOAM
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-PLLF□-ND	144.56	120.52	R-710 PLL FOAM
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-PLLF□-ND	162.50	135.47	R-720 PLL FOAM
With Metal Lock With Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-MLLF□-ND	51.02	42.54	R-120 MLL FOAM
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-MLLF□-ND	70.10	58.44	R-300 MLL FOAM
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-MLLF□-ND	113.96	95.01	R-520 MLL FOAM
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-MLLF□-ND	160.00	133.39	R-710 MLL FOAM
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-MLLF□-ND	177.94	148.34	R-720 MLL FOAM

Note: □ = Case Color: **B** = Black; **G** = Gray; **Y** = Yellow; **O** = Orange

Dimensions — L x W x H (Inch)		Digi-Key	Price Each		Serpac
Internal	External	Part No.	1	10	Model No
RX-Series Black Case					
With Plastic Lock Without Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-PLLB-ND	38.64	32.22	RX-120 PLL BLACK
18.29 x 13.19 x 4.67	20.10 x 15.80 x 5.51	SR-RX710-PLLB-ND	150.72	125.65	RX-710 PLL BLACK
With Metal Lock Without Foam Insert					
18.29 x 13.19 x 4.67	20.10 x 15.80 x 5.51	SR-RX710-MLLB-ND	166.16	138.52	RX-710 MLL BLACK
With Plastic Lock With Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-PLLFB-ND	43.46	36.23	RX-120 PLL BLACK FOAM
With Metal Lock With Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-MLLFB-ND	58.90	49.11	RX-120 MLL BLACK FOAM
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-MLLFB-ND◆	91.08	—	RX-300 MLL BLACK FOAM

Description	Series	Digi-Key Part No.	Price Each 1	10	Serpac Model No.
3-Piece Replacement Foam Sets for R and RX Series Cases — RoHS Compliant					
Replacement Foam Sets	120	SR9100-ND	3.40	2.84	9100
	300	SR9300-ND	8.84	7.37	9300
	520	SR9500-ND	21.00	17.51	9500
	710	SR9710-ND	24.18	20.16	9710
	720	SR9700-ND	40.46	33.73	9700

Description	Series	Digi-Key Part No.	Price Each 1	10	Serpac Model No.
"R" Series Panel Kits — RoHS Compliant					
Top Plate	R120	SR7150T-ND	18.28	15.24	7150T
	R300	SR7350T-ND	25.92	21.61	7350T
	R520	SR7550T-ND	30.04	25.04	7550T
Bottom Plate	R120	SR7150B-ND	21.02	17.52	7150B
	R300	SR7350B-ND	27.64	23.04	7350B
	R520	SR7550B-ND	113.82	94.86	7550B
	R710 / R720	SR7750B-ND	41.72	34.77	7750B

◆ RoHS Compliant

Note: Hardware supplied with kits. Bottom plate kit includes perimeter seal and o-rings. Panel kits for R-Series only.

Flambeau® INDUSTRIAL PRODUCTS & PACKAGING SOLUTIONS

Plastic Storage Systems

Fig. 1

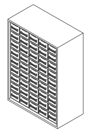

Fig. 2

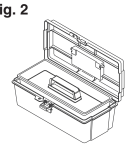

Fig. 3

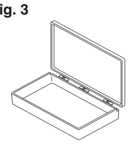

Fig. 4

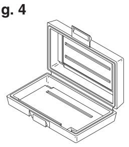

Plastic Frame Storage Cabinets

Sturdy shell and drawer rail structure for extra strength. These rugged cabinets can be stacked or wall mounted for greater storage flexibility. Drawers are in clear styrene resin for optimum visibility and speedy retrieval of contents. Each cabinet features drawer stops to prevent accidental spills.

Fig.	Dimensions – Inch (mm) L	W	D	Compart-ments	Digi-Key Part No.	Price Each 1	10	100	Flambeau Model No.
1	11.25 (285.75)	12 (304.8)	6 (152.4)	20	510-1013-ND	23.90	19.84	18.29	C20P
	16.50 (419.10)	12 (304.8)	6 (152.4)	26	510-1015-ND	32.38	26.88	24.78	C26P
	11.25 (285.75)	12 (304.8)	6 (152.4)	30	510-1022-ND	23.90	19.84	18.29	U30P
	16.50 (419.10)	12 (304.8)	6 (152.4)	45	510-1024-ND	32.38	26.88	24.78	U45P

Conductive Storage

Conductive cabinets are built in accordance with the guidelines of DOD-HDT3K-263 to bleed off any static charge at a safe controlled rate when properly connected to a ground. Each cabinet comes with a static-safe ground wire which protects users against electrical shock. Color: black

Cabinets

Fig.	Dimensions – Inch (mm) L	W	D	Compart-ments	Digi-Key Part No.	Price Each 1	10	100	Flambeau Model No.
1	11.25 (285.75)	12 (304.8)	6 (152.4)	20	510-1014-ND	71.54	59.38	54.73	C20P-C
	16.50 (419.10)	12 (304.8)	6 (152.4)	26	510-1016-ND	95.08	78.92	72.74	C26P-C

Fig.	Dimensions – Inch (mm) L	W	D	Compart-ments	Digi-Key Part No.	Price Each 1	10	100	Flambeau Model No.
1	11.25 (285.75)	12 (304.8)	6 (152.4)	30	510-1021-ND	71.54	59.38	54.73	U30P-C
	16.50 (419.10)	12 (304.8)	6 (152.4)	45	510-1023-ND	96.02	79.70	73.46	U45P-C

Boxes

Fig.	Dimensions – Inch (mm) L	W	D	Compart-ments	Digi-Key Part No.	Price Each 1	10	100	Flambeau Model No.
2	14.50 (368.3)	7.50 (190.5)	5.25 (133.35)	Full Length Tray	510-1000-ND	39.30	32.62	30.07	14800-2C
3	11 (279.40)	6.75 (171.45)	1.75 (44.45)	1	510-1017-ND	22.22	18.45	17.00	C601
	11 (279.40)	6.75 (171.45)	1.75 (44.45)	18	510-1018-ND	26.56	22.05	20.32	C618
	13.13 (333.50)	9 (228.6)	2.32 (58.93)	1	510-1019-ND	37.10	30.80	28.39	C801

Cases

Features:

- Molded from a proprietary high density polyethylene carbon loaded blend of materials
- Conductive <10^5 Ω/in^2
- Anti-Static: 10^9 ~ 10^{13} Ω/in^2
- Faraday Cage Protection
- Color: black

Fig.	Internal Dimensions – Inch (mm) L	W	D	Digi-Key Part No.	Price Each 1	10	100	Flambeau Model No.
4	5.06 (128.52)	2.75 (69.85)	1 (25.4)	510-1009-ND	8.78	7.29	6.72	50019
	6.75 (171.45)	5 (127)	1.19 (30.23)	510-1012-ND	18.86	15.66	14.43	50036
	11.88 (301.75)	8.19 (208.03)	1.25 (31.75)	510-1006-ND	25.10	20.84	19.21	50015
	17.5 (444.5)	13.5 (342.9)	1.31 (33.27)	510-1011-ND	48.20	40.01	36.88	50023
	18.44 (468.38)	17.69 (449.33)	1.94 (49.28)	510-1010-ND	63.48	52.69	48.57	50021

Bud Industries, Inc.

Enclosures

Fig. 1 — Aluminum Chassis

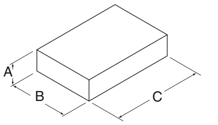

- Welded at stress points for assured, maximum strength and rigidity
- Sides folded in at bottom for additional support
- Bottom plate easily attached
- Natural finish

NOTE: Bottom plate sold separately.

Fig. 2 — Plastiboxes — Style G

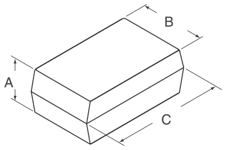

- ABS plastic
- UL94-HB flammability rating
- Suggested service temperature -40°C ~ 60°C

Fig. 3 — Plastiboxes — Style I

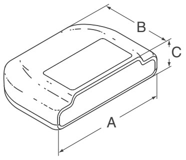

- ABS plastic material
- UL94-5VA flammability rating

Fig. 4 — Hand-Held Grabber Enclosures — Style B

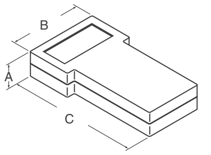

- ABS plastic in a light gray finish
- UL94V-0 flammability rating

Fig. 5 — Hand-Held Grabber Enclosures — Style K

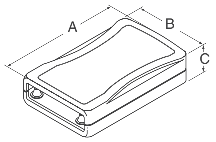

- ABS plastic with UL94V-0 flammability rating

Fig. 6 — Hand-Held Grabber Enclosures — Style L

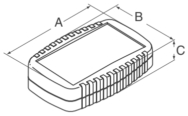

- High impact resistant black ABS plastic with UL94V-0 flammability rating

Fig. 7 — Hand-Held Grabber Enclosures — Style M

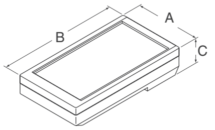

- Impact resistant black ABS plastic with UL94V-0 flammability rating

Fig. 8 — Hand-Held Grabber Enclosures — Style N

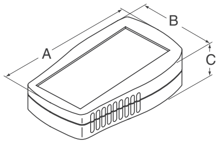

- Impact resistant black ABS plastic with UL94V-0 flammability rating

Fig. 9 — Utility Cabinets

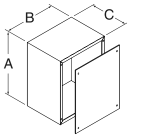

- Sturdy, all-welded body
- Available in .040" aluminum or 20 gauge steel: "AU" prefix – aluminum alloy in natural finish; "CU" prefix – steel in metallic gray finish

Fig. 10 — ABS Plastic Utiliboxes

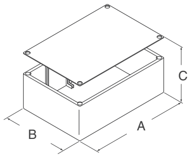

- Aluminum or plastic cover

Color	Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
	A	B	C	Part No.	1	10	50	Part No.
Fig. 1 — Chassis								
Natural	1.50 (38.1)	4.00 (100.4)	6.00 (152.4)	377-1000-ND	9.80	8.22	7.38	AC-1405
	2.00 (50.8)	6.00 (152.4)	8.00 (203.2)	377-1001-ND	12.50	10.40	9.35	AC-1413
	2.50 (63.5)	8.00 (203.2)	10.00 (254)	377-1002-ND	20.20	16.89	15.21	AC-1418
	2.50 (63.5)	8.00 (203.2)	12.00 (304.8)	377-1003-ND	25.00	20.86	18.75	AC-1419
	5.00 (127)	10.00 (254)	17.00 (431.8)	377-1004-ND	57.40	47.91	43.13	AC-1422
	5.00 (127)	13.00 (330.2)	17.00 (431.8)	377-1005-ND	66.20	55.28	49.76	AC-1426
	3.00 (76.2)	14.00 (355.6)	17.00 (431.8)	377-1006-ND	48.20	40.22	36.18	AC-1427
	4.00 (101.6)	15.00 (381)	17.00 (431.8)	377-1007-ND	65.40	54.59	49.13	AC-1428
	6.00 (152.4)	15.00 (381)	17.00 (431.8)	377-1008-ND	92.60	77.33	69.61	AC-1429
	3.00 (76.2)	17.00 (431.8)	17.00 (431.8)	377-1009-ND	56.10	46.86	42.19	AC-1430
	4.00 (101.6)	17.00 (431.8)	17.00 (431.8)	377-1010-ND	65.70	54.89	49.38	AC-1431
	2.00 (50.8)	5.00 (127)	7.00 (177.8)	377-1011-ND	10.90	9.07	8.18	AC-402
	2.00 (50.8)	5.00 (127)	9.50 (241.3)	377-1012-ND	13.20	10.95	9.85	AC-403
	3.00 (76.2)	5.00 (127)	10.00 (254)	377-1013-ND	16.80	14.02	12.60	AC-404
	2.00 (50.8)	7.00 (177.8)	7.00 (177.8)	377-1014-ND	11.40	9.42	8.48	AC-405
	2.00 (50.8)	7.00 (177.8)	9.00 (228.6)	377-1015-ND	13.80	11.49	10.33	AC-406
	2.00 (50.8)	7.00 (177.8)	11.00 (279.4)	377-1016-ND	16.00	13.32	12.00	AC-407
	3.00 (76.2)	7.00 (177.8)	12.00 (304.8)	377-1017-ND	21.20	17.69	15.90	AC-408
	2.00 (50.8)	7.00 (177.8)	13.00 (330.2)	377-1018-ND	17.40	14.57	13.11	AC-409
	3.00 (76.2)	7.00 (177.8)	15.00 (381)	377-1019-ND	27.60	23.04	20.73	AC-411
	3.00 (76.2)	8.00 (203.2)	17.00 (431.8)	377-1020-ND	28.70	24.03	21.61	AC-412
	3.00 (76.2)	10.00 (254)	12.00 (304.8)	377-1021-ND	32.20	26.96	24.29	AC-413
	3.00 (76.2)	10.00 (254)	14.00 (355.6)	377-1022-ND	32.80	27.50	24.76	AC-414
	2.00 (50.8)	10.00 (254)	17.00 (431.8)	377-1023-ND	29.20	24.43	22.01	AC-415
	3.00 (76.2)	10.00 (254)	17.00 (431.8)	377-1024-ND	34.20	28.54	25.71	AC-416
	3.00 (76.2)	12.00 (304.8)	17.00 (431.8)	377-1025-ND	36.10	30.07	27.08	AC-418
	2.00 (50.8)	13.00 (330.2)	17.00 (431.8)	377-1026-ND	37.00	30.86	27.75	AC-419
	3.00 (76.2)	13.00 (330.2)	17.00 (431.8)	377-1027-ND	42.60	35.57	32.01	AC-420
	3.00 (76.2)	5.00 (127)	9.50 (241.3)	377-1028-ND	16.70	13.92	12.56	AC-421
	3.00 (76.2)	8.00 (203.2)	12.00 (304.8)	377-1029-ND	25.40	21.21	19.11	AC-424
	4.00 (101.6)	10.00 (254)	17.00 (431.8)	377-1030-ND	49.20	41.13	37.04	AC-427
	4.00 (101.6)	13.00 (330.2)	17.00 (431.8)	377-1031-ND	51.90	43.29	38.98	AC-428
	3.00 (76.2)	5.00 (127)	7.00 (177.8)	377-1032-ND	14.00	11.69	10.53	AC-429
	3.00 (76.2)	4.00 (101.6)	6.00 (152.4)	377-1033-ND	12.45	10.30	9.25	AC-430
	2.00 (50.8)	4.00 (101.6)	6.00 (152.4)	377-1034-ND	10.10	8.47	7.63	AC-431

Chassis Bottom Plates

Color	Dimensions - Inch (mm)		Digi-Key	Price Each			Bud Ind.
	Fits Width	Chassis Length	Part No.	1	10	100	Part No.
Natural	4.00 (101.60)	6.00 (152.40)	377-1035-ND	5.00	4.17	3.75	BPA-1505
	6.00 (152.40)	8.00 (203.20)	377-1036-ND	7.10	5.85	5.28	BPA-1513
	8.00 (203.20)	10.00 (254)	377-1037-ND	8.80	7.34	6.60	BPA-1518
	8.00 (203.20)	12.00 (304.80)	377-1038-ND	10.70	8.97	8.08	BPA-1519
	8.00 (203.20)	17.00 (431.80)	377-1039-ND	11.00	9.22	8.28	BPA-1520
	10.00 (254)	12.00 (304.80)	377-1040-ND	10.70	8.97	8.08	BPA-1523
	10.00 (254)	14.00 (355.60)	377-1041-ND	10.70	8.97	8.08	BPA-1524
	12.00 (304.80)	17.00 (431.80)	377-1042-ND	15.30	12.79	11.53	BPA-1528
	14.00 (355.60)	17.00 (431.80)	377-1043-ND	16.20	13.52	12.15	BPA-1529
	15.00 (381)	17.00 (431.80)	377-1044-ND	20.30	16.94	15.26	BPA-1530
	17.00 (431.80)	17.00 (431.80)	377-1045-ND	24.70	20.61	18.56	BPA-1531
	5.00 (127)	7.00 (177.80)	377-1046-ND	4.90	4.07	3.65	BPA-1589
	5.00 (127)	9.50 (241.30)	377-1047-ND	5.00	4.17	3.75	BPA-1590
	5.00 (127)	10.00 (254)	377-1048-ND	4.90	4.07	3.65	BPA-1591
	7.00 (177.80)	7.00 (177.80)	377-1049-ND	4.90	4.07	3.65	BPA-1592
	7.00 (177.80)	9.00 (228.60)	377-1050-ND	6.10	5.11	4.58	BPA-1593
	7.00 (177.80)	11.00 (279.40)	377-1051-ND	6.30	5.25	4.73	BPA-1594
	7.00 (177.80)	12.00 (304.80)	377-1052-ND	6.90	5.75	5.18	BPA-1595
	10.00 (254)	17.00 (431.80)	377-1053-ND	11.30	9.47	8.53	BPA-1597
	13.00 (330.20)	17.00 (431.80)	377-1054-ND	15.80	13.17	11.85	BPA-1598

Color	Dimensions - Inch (mm)			Digi-Key	Price Each		Bud Ind.
	A	B	C	Part No.	1	10	Part No.
Fig. 2 — Plastiboxes — Style G							
Gray	1.50 (38.10)	2.25 (57.15)	3.62 (91.95)	377-1161-ND	6.70	5.59	PT-11308-G
	1.50 (38.10)	3.25 (82.55)	5.62 (142.75)	377-1157-ND	12.20	10.19	PBS-11327-G
	2.48 (62.99)	3.25 (82.55)	5.62 (142.75)	377-1162-ND	11.30	9.46	PT-11388-G
	1.52 (38.61)	3.25 (82.55)	4.37 (111)	377-1158-ND	5.20	4.34	PBS-11532-G
	1.52 (38.61)	3.25 (82.55)	5.62 (142.75)	377-1159-ND	5.50	4.60	PS-11543-G
	1.52 (38.61)	4.87 (123.70)	6.87 (174.50)	377-1160-ND	6.80	5.65	PS-11553-G
	2.52 (64.01)	4.87 (123.70)	6.87 (174.50)	377-1163-ND	7.20	6.00	PT-11557-G
Fig. 3 — Plastiboxes — Style I							
Black	7.50 (190.50)	5.00 (127.00)	1.75 (44.45)	377-1572-ND	12.10	10.10	PT-11785-MP
Fig. 4 — Hand-Held Grabber Enclosures — Style B							
Gray	1.71 (43.43)	5.16 (131.06)	9.33 (236.98)	377-1170-ND	19.00	15.85	HH-3420
Fig. 5 — Hand-Held Grabber Enclosures — Style K							
Black	4.63 (117.60)	2.85 (72.39)	1.00 (25.40)	377-1550-ND	9.80	8.20	HH-3524
	5.50 (139.70)	3.25 (82.55)	1.00 (25.40)	377-1551-ND	11.00	9.20	HH-3535
Fig. 6 — Hand-Held Grabber Enclosures — Style L							
Black	5.71 (145.03)	3.54 (89.92)	1.26 (32.00)	377-1552-ND	7.10	5.90	HH-3580-B
				377-1553-ND†	8.20	6.85	HH-3580-BCB
Fig. 7 — Hand-Held Grabber Enclosures — Style M							
Black	3.26 (82.80)	5.98 (151.89)	1.31 (33.27)	377-1554-ND	7.40	6.20	HH-3600-B
Fig. 8 — Hand-Held Grabber Enclosures — Style N							
Black	6.69 (169.93)	5.16 (131.06)	1.38 (35.05)	377-1555-ND	8.10	6.75	HH-3610-B
				377-1556-ND†	9.20	7.70	HH-3610-BCB
Accessories for Hand-Held Grabber Enclosures							
Tilt Stand for HH-3420				377-1171-ND	.90	.75	HH-3440-TS
Gasket for HH-3420				377-1172-ND	1.00	.85	HH-3441-G
Fig. 9 — Utility Cabinets							
Natural	5.00 (127)	6.00 (152.40)	4.00 (101.60)	377-1056-ND	14.10	11.75	AU-1029
	6.00 (152.40)	6.00 (152.40)	6.00 (152.40)	377-1057-ND	20.60	17.20	AU-1039
	9.00 (228.60)	6.00 (152.40)	5.00 (127)	377-1058-ND	22.40	18.70	AU-1040
Metallic Gray	6.00 (152.40)	6.00 (152.40)	6.00 (152.40)	377-1059-ND	33.00	27.50	CU-1098
	9.00 (228.60)	6.00 (152.40)	5.00 (127)	377-1060-ND	37.30	31.10	CU-1099
	12.00 (304.80)	7.00 (177.80)	6.00 (152.40)	377-1061-ND	58.50	48.85	CU-1124
	4.00 (101.60)	5.00 (127)	3.00 (76.20)	377-1062-ND	18.20	15.25	CU-728
	5.00 (127)	6.00 (152.40)	4.00 (101.60)	377-1063-ND	22.40	18.65	CU-729
	10.00 (254)	8.00 (203.20)	7.00 (177.80)	377-1064-ND	56.40	47.10	CU-879
	15.00 (381)	9.00 (228.60)	7.00 (177.80)	377-1065-ND	80.10	66.95	CU-882
Fig. 10 — ABS Plastic Utiliboxes							
Black	5.30 (134.62)	2.94 (74.68)	1.95 (49.53)	377-1165-ND	3.00	2.50	CU-1874-B
Gray	5.30 (134.62)	2.94 (74.68)	1.95 (49.53)	377-1166-ND	3.00	2.50	CU-1874-G
Black	4.10 (104.14)	2.23 (57.40)	2.00 (50.80)	377-1167-ND	4.30	3.57	CU-793
	5.59 (141.99)	4.34 (110.27)	1.84 (46.77)	377-1168-ND	7.20	6.00	CU-387
	4.31 (109.47)	3.06 (77.72)	1.46 (37.08)	377-1169-ND	5.80	4.85	CU-388
	4.60 (116.84)	3.10 (78.74)	1.87 (47.50)	377-1216-ND	7.20	6.00	CU-3281
	4.60 (116.84)	4.60 (116.84)	2.37 (60.20)	377-1217-ND	8.00	6.69	CU-3282
	6.10 (154.94)	4.60 (116.84)	2.37 (60.20)	377-1218-ND	9.20	7.70	CU-3283
	7.60 (193.04)	4.60 (116.84)	2.37 (60.20)	377-1219-ND	11.10	9.27	CU-3284
	5.07 (128.78)	3.57 (90.68)	1.59 (40.39)	377-1220-ND	6.70	5.60	CU-389
	6.10 (154.94)	4.60 (116.84)	1.37 (34.80)	377-1536-ND	10.00	8.35	CU-3287
	6.10 (154.94)	4.60 (116.84)	1.37 (34.80)	377-1537-ND	10.00	8.35	CU-3287-MB
	6.10 (154.94)	4.60 (116.84)	1.37 (34.80)	377-1538-ND	10.00	8.35	CUR-3287
	6.10 (154.94)	4.60 (116.84)	1.37 (34.80)	377-1539-ND	10.70	8.90	CUR-3287-C
	6.10 (154.94)	4.60 (116.84)	1.37 (34.80)	377-1540-ND	10.70	8.94	CUR-3287-MB
	6.10 (154.94)	4.60 (116.84)	1.37 (34.80)	377-1541-ND	10.00	8.32	CUR-3287-CMB

† With Battery Compartment

(*Continued*)

Fig. 11 — Die Cast Econobox with or without Mounting Flanges

- ADC-10 aluminum alloy
- Heavy duty .09” thick external wall mounting bracket
- Mounts to wall or panel with #10 size screws (not included)

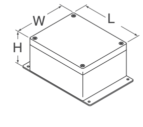

Fig. 12 — Extruded Aluminum Boxes

- One piece extruded aluminum housing
- Individual aluminum end panels
- ABS plastic panel bezels
- Internal PCB card guides

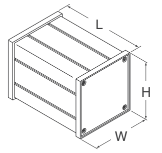

Fig. 13 — Potting Boxes

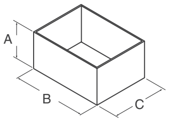

Style A

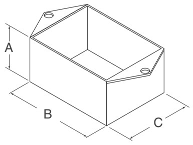

Style B

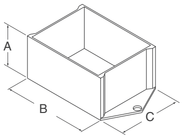

Style C

• ABS thermoplastic • UL94V-0 flammability rating • Suggested service temperature -20°C ~ 70°C • Optional close-fitting covers available in all sizes

Fig. 14 — TR Series Cabinets

- Top and bottom .05” aluminum; front panel .09” aluminum
- Extruded aluminum frame
- Corner gussets for added support
- Carrying handle may be used as tilting bail
- Front panel, self-adhesive rubber feet and handle/bail included
- Royal blue texture body with white frame and bail

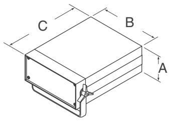

Econoboxes

Finish	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Fig. 11 — Econobox Enclosures								
Natural	3.62 (91.95)	1.50 (38.10)	1.21 (30.73)	377-1107-ND	6.90	5.75	5.20	CU-123
	4.37 (177.80)	2.37 (60.198)	1.21 (30.73)	377-1108-ND	7.20	6.05	5.45	CU-124
	4.68 (118.87)	3.68 (93.47)	2.21 (56.13)	377-1109-ND	11.60	9.65	8.70	CU-234
	7.39 (187.81)	4.70 (119.38)	2.21 (56.13)	377-1110-ND	19.60	16.35	14.70	CU-247
	7.39 (187.71)	4.70 (119.38)	3.21 (81.53)	377-1111-ND	23.00	19.20	17.30	CU-347
Fig. 11 — Econoboxes with Mounting Flanges								
Natural	3.62 (91.95)	1.50 (38.10)	1.21 (30.73)	377-1462-ND	13.10	10.94	9.86	CU-4123
Black	3.62 (91.95)	1.50 (38.10)	1.21 (30.73)	377-1463-ND	15.06	12.53	11.25	CU-4123-B
Natural	4.37 (111.00)	2.37 (60.20)	1.21 (30.73)	377-1464-ND	16.70	13.92	12.53	CU-4124
Black	4.37 (111.00)	2.37 (60.20)	1.21 (30.73)	377-1465-ND	18.10	15.07	13.55	CU-4124-B
Natural	4.68 (118.87)	3.68 (93.47)	2.21 (56.13)	377-1466-ND	22.00	18.34	16.50	CU-4234
Black	4.68 (118.87)	3.68 (93.47)	2.21 (56.13)	377-1467-ND	24.50	20.40	18.38	CU-4234-B
Natural	7.39 (187.71)	4.70 (119.38)	2.21 (56.13)	377-1468-ND	29.30	24.44	21.98	CU-4247
Black	7.39 (187.71)	4.70 (119.38)	2.21 (56.13)	377-1469-ND	33.80	28.17	25.39	CU-4247-B
Natural	7.39 (187.71)	4.70 (119.38)	3.21 (81.53)	377-1470-ND	34.30	28.61	25.76	CU-4347
Black	7.39 (187.71)	4.70 (119.38)	3.21 (81.53)	377-1471-ND	38.80	32.34	29.10	CU-4347-B
Natural	2.00 (50.8)	2.00 (50.8)	1.25 (31.75)	377-1472-ND	12.50	10.42	9.41	CU-4470
Black	2.00 (50.8)	2.00 (50.8)	1.25 (31.75)	377-1473-ND	13.50	11.28	10.13	CU-4470-B
Natural	4.33 (109.98)	3.25 (82.55)	1.75 (44.45)	377-1474-ND	18.60	15.50	13.99	CU-4471
Black	4.33 (109.98)	3.25 (82.55)	1.75 (44.45)	377-1475-ND	20.90	17.42	15.71	CU-4471-B
Natural	4.75 (120.65)	3.15 (80.01)	2.33 (59.18)	377-1476-ND	21.60	18.00	16.24	CU-4472
Black	4.75 (120.65)	3.15 (80.01)	2.33 (59.18)	377-1477-ND	24.50	20.40	18.38	CU-4472-B
Natural	4.68 (118.87)	3.68 (93.47)	1.34 (34.04)	377-1478-ND	20.40	16.98	15.27	CU-4473
Black	4.68 (118.87)	3.68 (93.47)	1.34 (34.04)	377-1479-ND	22.90	19.11	17.21	CU-4473-B
Natural	4.75 (120.65)	4.75 (120.65)	2.33 (59.18)	377-1480-ND	26.70	22.28	20.06	CU-4474
Black	4.75 (120.65)	4.75 (120.65)	2.33 (59.18)	377-1481-ND	30.40	25.34	22.80	CU-4474-B
Natural	4.75 (120.65)	4.75 (120.65)	3.75 (95.25)	377-1482-ND	30.80	25.69	23.10	CU-4475
Black	4.75 (120.65)	4.75 (120.65)	3.75 (95.25)	377-1483-ND	34.50	28.75	25.91	CU-4475-B
Natural	6.00 (152.4)	3.25 (82.55)	2.00 (50.8)	377-1484-ND	25.80	21.50	19.35	CU-4476
Black	6.00 (152.4)	3.25 (82.55)	2.00 (50.8)	377-1485-ND	28.70	23.90	21.50	CU-4476-B
Natural	7.39 (187.71)	4.70 (119.38)	1.50 (38.1)	377-1486-ND	26.90	22.42	20.21	CU-4477
Black	7.39 (187.71)	4.70 (119.38)	1.50 (38.1)	377-1487-ND	31.40	26.15	23.55	CU-4477-B
Natural	7.50 (190.5)	7.50 (190.5)	2.62 (66.55)	377-1488-ND	42.70	35.61	32.06	CU-4478
Black	7.50 (190.5)	7.50 (190.5)	2.62 (66.55)	377-1489-ND	48.30	40.28	36.23	CU-4478-B
Natural	4.37 (111.00)	2.37 (60.20)	2.13 (54.10)	377-1490-ND	19.90	16.61	14.96	CU-4479
Black	4.37 (111.00)	2.37 (60.20)	2.13 (54.10)	377-1491-ND	21.30	17.75	15.98	CU-4479-B

Extruded Aluminum Boxes

Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Fig. 12 — Extruded Aluminum Boxes							
3.81 (96.77)	3.14 (79.76)	1.57 (39.88)	377-1492-ND	13.00	10.85	9.75	EX-4500
5.38 (136.65)	3.14 (79.76)	1.57 (39.88)	377-1493-ND	16.50	13.75	12.40	EX-4501
6.96 (176.78)	3.14 (79.76)	1.57 (39.88)	377-1494-ND	20.00	16.65	15.00	EX-4502
6.14 (155.96)	5.38 (136.65)	3.18 (80.77)	377-1495-ND	25.00	20.85	18.75	EX-4521
6.96 (176.78)	6.14 (155.96)	3.18 (80.77)	377-1496-ND	30.50	25.40	22.85	EX-4522
9.32 (236.73)	6.14 (155.96)	3.18 (80.77)	377-1497-ND	38.50	32.10	28.90	EX-4523
5.38 (136.65)	3.82 (97.03)	3.82 (97.03)	377-1498-ND	20.50	17.10	15.40	EX-4541
6.96 (176.78)	3.82 (97.03)	3.82 (97.03)	377-1499-ND	25.50	21.25	19.15	EX-4542
9.32 (236.73)	3.82 (97.03)	3.82 (97.03)	377-1500-ND	31.50	26.25	23.65	EX-4543

Style	Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 13 — Potting Boxes								
A	Black	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	377-1173-ND	1.22	1.02	PB-1558
		1.50 (38.1)	3.00 (76.2)	2.00 (50.8)	377-1176-ND	1.77	1.48	PB-1559
		.75 (19.05)	1.00 (25.4)	1.00 (25.4)	377-1180-ND	.71	.59	PB-1577
B	Black	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	377-1175-ND	1.33	1.11	PB-1558-TF
		1.50 (38.1)	3.00 (76.2)	2.00 (50.8)	377-1178-ND	1.91	1.60	PB-1559-TF
		1.50 (38.1)	3.00 (76.2)	3.00 (76.2)	377-1179-ND	1.92	1.61	PB-1576-TF
C	Black	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	377-1174-ND	1.33	1.11	PB-1558-BF
		1.50 (38.1)	3.00 (76.2)	2.00 (50.8)	377-1177-ND	1.91	1.60	PB-1559-BF
Optional Close-Fitting Covers								
Cover for PB-1558-BF					377-1181-ND	.70	.59	PBC-1558-C
Cover for PB-1558/1558-TF					377-1182-ND	.70	.59	PBC-1558-CN
Cover for PB-1559-BF					377-1183-ND	.82	.69	PBC-1559-C
Cover for PB-1559/1559-TF					377-1184-ND	.80	.67	PBC-1575-C
Cover for PB-1576-TF					377-1185-ND	1.04	.87	PBC-1576-C
Cover for PB-1577					377-1186-ND	.42	.36	PBC-1577-C

Small Cabinets

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 14 — TR Series								
Blue/White	3.50 (88.9)	8.31 (211.07)	10.75 (273.05)	377-1312-ND	261.70	218.53	—	TR-6100
	5.25 (133.35)	8.31 (211.07)	13.25 (336.55)	377-1313-ND	280.20	233.94	—	TR-6101
	7.00 (177.8)	11.06 (280.9)	13.25 (336.55)	377-1055-ND	320.80	267.83	—	TR-6102
Fig. 15 — Aluminum Instrument Cases								
Natural	12.93 (328.42)	8.27 (210.06)	2.72 (69.09)	377-1561-ND	108.20	—	90.35	IA-6160
	12.93 (328.42)	10.16 (258.06)	2.72 (69.09)	377-1562-ND	125.90	—	105.15	IA-6161
	12.93 (328.42)	8.27 (210.06)	4.92 (124.97)	377-1563-ND	133.50	—	111.45	IA-6162
	12.93 (328.42)	10.16 (258.06)	4.02 (102.11)	377-1564-ND	147.80	—	123.40	IA-6163
Fig. 16 — Sloping Panel Cabinets								
Metallic Gray	6.50 (165.1)	7.06 (179.3)	7.31 (185.7)	377-1066-ND	63.00	—	52.70	C-1584
	6.50 (165.1)	9.06 (230.1)	7.31 (185.7)	377-1067-ND	60.70	—	50.65	C-1585
	6.50 (165.1)	11.06 (280.9)	7.31 (185.7)	377-1068-ND	71.25	—	59.40	C-1586
	8.00 (203.2)	10.06 (255.5)	8.00 (203.2)	377-1069-ND	76.20	—	63.60	C-1588
	8.00 (203.2)	13.06 (331.7)	8.50 (215.9)	377-1070-ND	101.50	—	84.80	C-1892
	10.00 (254)	18.06 (458.37)	10.50 (266.7)	377-1071-ND	149.90	—	125.10	C-1893
	8.00 (203.2)	14.06 (357.1)	8.00 (203.2)	377-1072-ND	92.60	—	77.35	C-1894
	9.00 (228.6)	18.06 (458.7)	8.18 (207.78)	377-1073-ND	128.90	—	107.65	C-1896
Fig. 17 — Slope Enclosures, Solid Top (.09" Base, .05" Cover with Rubber Feet)								
Black/White	4.25 (107.95)	4.93 (125.22)	5.00 (127)	377-1074-ND*	42.90	35.80	—	SC-12100
	3.25 (82.55)	11.93 (303.02)	10.00 (254)	377-1075-ND	77.10	64.40	—	SC-12101
Fig. 18 — Mini Boxes								
Gray	1.62 (41.15)	2.12 (53.85)	2.75 (69.85)	377-1076-ND	6.45	—	5.30	CU-2100-B
	1.62 (41.15)	2.12 (53.85)	3.25 (82.55)	377-1077-ND	7.00	—	5.82	CU-2101-B
	1.62 (41.15)	2.12 (53.85)	4.00 (101.6)	377-1078-ND	7.30	—	6.07	CU-2102-B
	2.25 (57.15)	2.25 (57.15)	4.00 (101.6)	377-1079-ND	7.50	—	6.27	CU-2103-B
	3.00 (76.2)	4.00 (101.6)	5.00 (127)	377-1080-ND	11.10	—	9.27	CU-2105-B
	2.12 (53.85)	3.00 (76.2)	5.25 (133.35)	377-1081-ND	9.80	—	8.08	CU-2106-B
	4.00 (101.6)	5.00 (127)	6.00 (152.4)	377-1082-ND	17.00	—	14.26	CU-2107-B
	3.00 (76.2)	5.00 (127)	7.00 (177.8)	377-1083-ND	16.40	—	13.72	CU-2108-B
	3.50 (88.9)	6.00 (152.4)	8.00 (203.2)	377-1084-ND	25.60	—	21.40	CU-2109-B
	3.50 (88.9)	6.00 (152.4)	10.00 (254)	377-1085-ND	27.20	—	22.70	CU-2110-B
	4.00 (101.6)	7.00 (177.8)	12.00 (304.8)	377-1086-ND	36.00	—	30.10	CU-2111-B
Natural	1.62 (41.15)	2.12 (53.85)	2.75 (69.85)	377-1087-ND	4.60	—	3.85	CU-3000-A
	1.62 (41.15)	2.12 (53.85)	3.25 (82.55)	377-1088-ND	5.25	—	4.35	CU-3001-A

* Single knockout only — centered

(*Continued*)

Enclosures *(Cont.)*

Fig. 15 — Aluminum Instrument Case

- Aluminum body with plastic front and rear bezels
- Removable front and rear panels
- Adjustable locking aluminum/plastic handle
- Extruded internal grooves for horizontal mounting of circuit board, chassis or panel

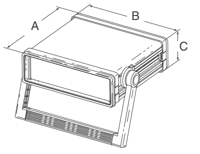

Fig. 16 — Sloping Panel Cabinets

- Steel
- Removable front panel
- Hinged top opens completely for access to components mounted on chassis

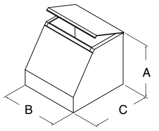

Fig. 17 — Slope Enclosure

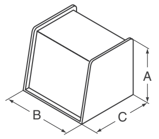

Fig. 18 — Mini Boxes

- 04” aluminum alloy
- Two sections slip together and may be joined by either built-in snap lock or sheet metal screws (included)

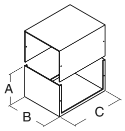

Fig. 19 — Gasketed Enclosures

Meets NEMA 1, 2, 4, 4X, 12 and 13 Ratings.

Indoor Version: • ABS/ PC blended plastic with UL94-5VB flammability rating • Clear doors polycarbonate with UL94V-0 flammability rating • Suggested service temperature -40°C ~ 70°C

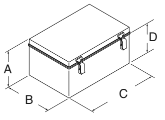

Fig. 20 — VisionCab Cabinets

- Versatile steel cabinet
- EIA spacing
- Supplied with see-thru removeable front door with clear acrylic window
- Equipped with 110VAC, 105CFM exhaust fan for cooling

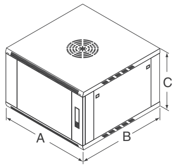

Fig. 21— Small Compucab Series Cabinets

- Dual-slope keyboard styling
- Base and side .09” aluminum; back panel and cover .05” aluminum
- Rubber feet included

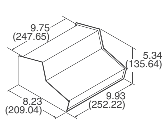

2 Piece Design

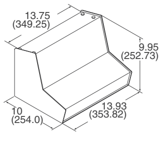

3 Piece Design

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Natural	1.62 (41.15)	2.12 (53.85)	4.00 (101.6)	377-1089-ND	5.70	—	4.75	CU-3002-A
	2.25 (57.15)	2.25 (57.15)	4.00 (101.6)	377-1090-ND	6.10	—	5.05	CU-3003-A
	2.25 (57.15)	2.25 (57.15)	5.00 (127)	377-1091-ND	7.30	—	6.10	CU-3004-A
	3.00 (76.2)	4.00 (101.6)	5.00 (127)	377-1092-ND	9.20	—	7.65	CU-3005-A
	2.12 (53.85)	3.00 (76.2)	5.25 (133.35)	377-1093-ND	7.40	—	6.10	CU-3006-A
	4.00 (101.6)	5.00 (127)	6.00 (152.4)	377-1094-ND	13.20	—	11.05	CU-3007-A
	3.00 (76.2)	5.00 (127)	7.00 (177.8)	377-1095-ND	11.90	—	9.95	CU-3008-A
	3.50 (88.9)	6.00 (152.4)	8.00 (203.2)	377-1096-ND	15.50	—	12.95	CU-3009-A
	3.50 (88.9)	6.00 (152.4)	10.00 (254)	377-1097-ND	19.60	—	16.35	CU-3010-A
	4.00 (101.6)	7.00 (177.8)	12.00 (304.8)	377-1098-ND	27.30	—	22.80	CU-3011-A

* Single knockout only — centered

UL/NEMA/IEC Gasketed Enclosures

Dimensions - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	5	15	Bud Ind. Part No.
Fig. 19 — NBA Series – Stainless Steel Hinges								
7.09 (180.09)	11.80 (299.72)	7.85 (199.39)	5.90 (149.86)	377-1138-ND†	67.30	56.07	50.45	NBA-10144
7.09 (180.09)	15.75 (400.05)	11.80 (299.72)	5.90 (149.86)	377-1139-ND†	99.20	82.67	74.43	NBA-10148
5.97 (151.64)	11.80 (299.72)	7.85 (199.39)	4.80 (121.92)	377-1140-ND§	63.90	53.25	47.96	NBA-10162
Fig. 19 — NBB Series – Plastic Hinges								
3.57 (90.68)	5.90 (149.86)	5.90 (149.86)	2.75 (69.85)	377-1141-ND†	20.20	16.85	15.15	NBB-10240
5.50 (141.35)	11.28 (286.512)	7.47 (189.79)	4.33 (109.98)	377-1142-ND†	44.00	36.65	32.98	NBB-10243
7.04 (178.82)	13.00 (330.2)	13.00 (330.2)	5.86 (148.84)	377-1143-ND†	60.80	50.67	45.63	NBB-10245
6.30 (160.02)	15.68 (398.27)	11.73 (297.94)	5.11 (129.79)	377-1144-ND†	58.40	48.65	43.80	NBB-10247
3.57 (90.68)	5.90 (149.86)	5.90 (149.86)	2.75 (69.85)	377-1245-ND§	23.20	19.32	17.38	NBB-10260
3.57 (90.68)	5.90 (149.86)	5.90 (149.86)	2.75 (69.85)	377-1246-ND†	23.40	19.52	17.58	NBB-15240
Fig. 19 — NBD Series – Non-Metallic Phillips Drive Fasteners								
5.03 (127.76)	7.48 (189.99)	11.02 (279.91)	3.85 (97.79)	377-1145-ND†	44.70	37.25	33.53	NBD-10442
Fig. 19 — NBE Series – Plastic Hinges / Aluminum Swing-out Panel								
5.50 (141.35)	7.47 (189.79)	11.28 (286.512)	4.33 (109.98)	377-1146-ND§	82.70	69.06	62.13	NBE-10563
6.30 (160.02)	11.73 (297.94)	15.68 (398.27)	5.11 (129.79)	377-1147-ND§	108.30	90.45	81.41	NBE-10567
7.85 (199.39)	14.64 (371.86)	19.17 (486.92)	6.67 (169.42)	377-1148-ND§	163.90	136.87	123.17	NBE-10573

† Solid doors § Clear doors

VisionCab Cabinets

Dimensions - Inch (mm) A	B	C	Panel Space Height - In. (mm)	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 20 — Black							
23.62 (599.95)	23.62 (599.95)	15.29 (388.37)	10.50 (266.70)	377-1581-ND	293.40	220.05	VC-9930
23.62 (599.95)	23.62 (599.95)	20.54 (521.72)	15.75 (400.05)	377-1582-ND	337.80	253.35	VC-9931
23.62 (599.95)	23.62 (599.95)	25.79 (655.07)	21.00 (533.40)	377-1583-ND	404.50	303.36	VC-9932
23.62 (599.95)	23.62 (599.95)	31.04 (788.42)	26.25 (666.75)	377-1584-ND	488.90	366.66	VC-9933
23.62 (599.95)	23.62 (599.95)	36.29 (921.77)	31.50 (800.10)	377-1585-ND	546.70	410.00	VC-9934

Small Cabinets

Description	Digi-Key Part No.	Price Each 1	5	15	Bud Ind. Part No.
Fig. 21 — Compucab Series – Small Metal Enclosures					
2 Piece Design	377-1296-ND	83.00	69.30	62.35	SC-13100
3 Piece Design	377-1297-ND	161.60	134.90	121.41	SC-13101

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 22 — Champion Series Cabinets								
Black	6.00 (152.4)	12.00 (304.8)	10.00 (254)	377-1210-ND	89.30	—	74.52	CS-11212-BT
	8.00 (203.2)	9.00 (228.6)	8.00 (203.2)	377-1211-ND	87.00	—	72.58	CS-11214-BT
	8.00 (203.2)	12.00 (304.8)	10.00 (254)	377-1212-ND	97.80	—	81.62	CS-11216-BT
Fig. 23 — Portacab Cabinets								
Gray	8.00 (203.2)	6.12 (155.45)	8.00 (203.2)	377-1315-ND	107.70	89.85	—	WA-1540
	9.00 (228.6)	8.12 (206.25)	12.00 (304.8)	377-1316-ND	148.70	124.15	—	WA-1541
	8.00 (203.2)	10.12 (257.05)	8.00 (203.2)	377-1317-ND	126.50	105.70	—	WA-1542
	11.00 (279.4)	11.12 (282.45)	18.00 (457.2)	377-1318-ND	202.80	169.37	—	WA-1543
Fig. 24 — Converta Boxes								
Natural	2.00 (50.8)	8.00 (203.2)	4.00 (101.6)	377-1221-ND	17.30	—	14.45	CU-482-A
	2.50 (63.5)	9.50 (241.3)	5.00 (127)	377-1222-ND	19.80	—	16.55	CU-592-A
	2.50 (63.5)	12.00 (304.8)	6.00 (152.4)	377-1223-ND	26.00	—	21.75	CU-622-A

Style	Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 25 — Plasticases								
1	Gray	1.53 (38.86)	5.08 (129.03)	5.30 (134.62)	377-1149-ND	14.60	12.19	PC-11402
		2.52 (64.01)	8.10 (205.74)	6.32 (160.53)	377-1150-ND	22.40	18.67	PC-11408
		2.56 (65.02)	10.24 (260.10)	7.09 (180.09)	377-1156-ND	32.80	27.35	PC-11482-A
	Black	4.02 (102.11)	9.72 (246.89)	8.66 (219.96)	377-1155-ND	109.40	91.30	PC-11438
2	Gray	3.30 (83.82)	6.12 (155.49)	6.32 (160.53)	377-1151-ND	23.10	19.25	PC-11410
		3.30 (83.82)	8.10 (205.74)	6.32 (160.53)	377-1152-ND	26.70	22.31	PC-11412
		4.04 (102.62)	6.12 (155.49)	6.32 (160.53)	377-1153-ND	24.30	20.29	PC-11414
		4.04 (102.62)	8.10 (205.74)	6.32 (160.53)	377-1154-ND	28.40	23.73	PC-11416
H	Black	9.18 (233.17)	5.25 (133.35)	1.68 (42.67)	377-1570-ND	13.30	11.10	PC-11640
		9.18 (233.17)	5.25 (133.35)	2.36 (59.94)	377-1571-ND	13.70	11.45	PC-11645
Fig. 26 — Accessories								
Battery Clip, 1 - 9V Cell					377-1549-ND	1.20	1.00	HH-3449
Battery Holder, 2-AAA Cells					377-1557-ND	1.70	1.42	HH-3630
Battery Holder, 4-AAA Cells					377-1558-ND	2.90	2.42	HH-3631
Battery Holder, 2-AA Cells					377-1559-ND	1.70	1.42	HH-3632
Battery Holder, 4-AA Cells					377-1560-ND	2.90	2.42	HH-3633

(*Continued*)

Fig. 22 — Champion Cabinets

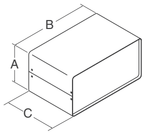

- No screws on front or rear panel • Ventilation slots in bottom and rear panel • Black top and bottom; white front and rear • .05” aluminum • Four adhesive rubber feet included

Fig. 23 — Portacab Cabinets

- Designed for bench or portable use • Louvered sides • .05” aluminum
- Metallic gray • Handle capacity 25 pounds • Four plastic feet included

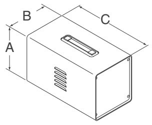

Fig. 24 — Converta Boxes

- Welded base and two-sided cover • .05” aluminum • Natural finish

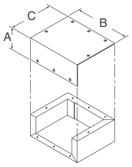

Fig. 25 — Plasticases

PC-11402 – PC-11416: • Impact resistant polystyrene • UL94-HB flammability rating • Molded-in card guides and mounting bosses • Double-textured PC bone gray **PC-11438:** • Black ABS covers • UL94-HB flammability rating • Clear anodized aluminum front and rear panels • Internal steel channels provide extra strength and ease of assembly • Formed guide tabs accept vertical or horizontal circuit boards **PC-11482-A:** • Dark gray ABS covers with natural finish aluminum end panels • UL94V-0 flammability rating • Suggested service temperature -40°C ~ 80°C **PC-11640 – PC-11645:** • Flame retandant black ABS plastic • UL94V-0 flammability rating

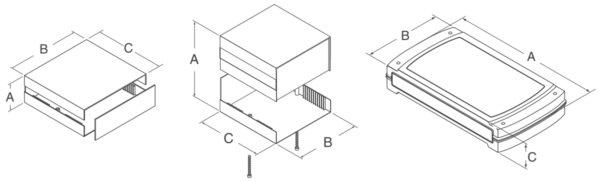
Style 1 Style 2 Style H

Fig. 26 — Accessories

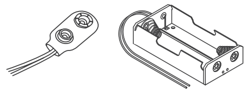
Battery Clip Battery Holder

NEMA Enclosures — Sealed Polycarbonate and ABS

Dimensions - Inch (mm)				Digi-Key	Price Each			Bud Ind.
A	B	C	D	Part No.	1	10	100	Part No.
Fig. 27 — Fiberglass NEMA Boxes								
7.74 (196.60)	4.50 (114.30)	7.74 (196.60)	—	377-1565-ND	39.70	33.10	29.80	NF-6610
7.76 (197.10)	4.50 (114.30)	9.64 (244.86)	—	377-1566-ND	41.60	34.65	31.20	NF-6611
9.90 (251.46)	6.50 (165.10)	11.78 (299.21)	—	377-1567-ND	46.10	38.40	34.56	NF-6612
11.90 (302.26)	6.50 (165.10)	13.78 (350.01)	—	377-1568-ND	55.70	46.40	41.75	NF-6613
13.89 (352.81)	6.50 (165.10)	15.79 (401.07)	—	377-1569-ND	62.40	52.00	46.80	NF-6614
Fig. 28 — Blue Transparent NEMA Boxes								
3.54 (89.92)	4.53 (115.06)	2.17 (55.12)	—	377-1542-ND	14.60	12.20	11.00	BT-2723
4.76 (120.90)	6.73 (170.94)	2.17 (55.12)	—	377-1543-ND	21.30	17.80	16.00	BT-2724
5.75 (146.05)	8.74 (222.00)	2.17 (55.12)	—	377-1544-ND	28.10	23.45	21.10	BT-2725
4.76 (120.90)	6.73 (170.94)	3.15 (80.01)	—	377-1545-ND	24.90	20.80	18.70	BT-2727
4.72 (119.89)	7.87 (199.90)	2.95 (74.93)	—	377-1546-ND	24.30	20.30	18.25	BT-2734
6.30 (160.02)	9.45 (240.03)	3.54 (89.92)	—	377-1547-ND	34.10	28.45	25.61	BT-2740
9.06 (230.12)	11.81 (299.97)	3.39 (86.11)	—	377-1548-ND	79.00	65.95	59.35	BT-2742
Fig. 29 — Sheet Metal NEMA Boxes								
5.91 (150.11)	7.87 (199.90)	9.84 (249.94)	—	377-1573-ND	49.60	41.35	37.20	SNB-3730
5.91 (150.11)	9.84 (249.94)	11.81 (299.97)	—	377-1574-ND	55.10	45.90	41.30	SNB-3731
7.87 (199.90)	9.84 (249.94)	11.81 (299.97)	—	377-1575-ND	58.00	48.35	43.50	SNB-3732
5.91 (150.11)	11.81 (299.97)	11.81 (299.97)	—	377-1576-ND	60.60	50.50	45.45	SNB-3733
7.87 (199.90)	11.81 (299.97)	11.81 (299.97)	—	377-1577-ND	65.40	54.50	49.05	SNB-3734
5.91 (150.11)	11.81 (299.97)	15.75 (400.05)	—	377-1578-ND	68.60	57.15	51.45	SNB-3735
7.87 (199.90)	11.81 (299.97)	15.75 (400.05)	—	377-1579-ND	72.80	60.65	54.60	SNB-3736
7.87 (199.90)	15.75 (400.05)	15.75 (400.05)	—	377-1580-ND	86.20	71.85	64.65	SNB-3737
Fig. 30 — Plastic NEMA Enclosures — Style 1								
1.38 (35.05)	2.56 (65.02)	2.28 (57.91)	0.99 (25.146)	377-1112-ND	7.40	6.15	5.55	PN-1320
1.57 (39.88)	4.53 (115.06)	2.56 (65.02)	0.99 (25.146)	377-1114-ND	10.80	9.02	8.13	PN-1321
2.17 (55.12)	4.53 (115.06)	2.56 (65.02)	1.58 (40.13)	377-1116-ND	11.70	9.75	8.81	PN-1322
2.17 (55.12)	4.53 (115.06)	3.54 (89.92)	1.58 (40.13)	377-1119-ND	13.40	11.15	10.05	PN-1323
2.17 (55.12)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1122-ND	18.80	15.65	14.08	PN-1324
2.17 (55.12)	8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1125-ND	24.90	20.75	18.71	PN-1325
3.15 (80.01)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1127-ND	21.30	17.74	15.98	PN-1327
3.15 (80.01)	4.53 (115.06)	3.54 (89.92)	2.56 (65.02)	377-1129-ND	16.40	13.65	12.28	PN-1328
2.95 (74.93)	8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1131-ND	28.60	23.82	21.45	PN-1329
3.35 (85.09)	6.30 (160.02)	3.15 (80.01)	2.76 (70.10)	377-1134-ND	16.50	13.75	12.40	PN-1333
2.95 (74.93)	7.87 (199.90)	4.72 (119.89)	2.37 (60.199)	377-1136-ND	23.40	19.50	17.55	PN-1334
3.74 (94.99)	10.43 (264.93)	7.28 (184.91)	2.95 (74.93)	377-1258-ND	38.40	32.15	26.90	PN-1335
Fig. 30 — Plastic NEMA Enclosures — Style 2								
1.57 (39.88)	4.53(115.06)	2.56 (65.02)	0.99 (25.15)	377-1255-ND	11.10	9.27	8.33	PN-1321-C
2.17 (55.12)	4.53 (115.06)	2.56 (65.02)	1.58 (40.13)	377-1117-ND	12.00	10.00	9.00	PN-1322-C
2.17 (55.12)	4.53 (115.06)	3.54 (89.92)	1.58 (40.13)	377-1120-ND	13.90	11.59	10.43	PN-1323-C
2.17 (55.12)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1123-ND	19.40	16.15	14.53	PN-1324-C
2.95 (74.93)	8.74(221.99)	5.75 (146.05)	1.58 (40.13)	377-1256-ND	28.60	23.82	21.45	PN-1329-C
2.17 (55.12)	6.30 (160.02)	3.15 (80.01)	1.58 (40.13)	377-1133-ND	15.70	13.10	11.80	PN-1332-C
2.95 (74.93)	7.87(199.90)	4.72 (119.89)	2.37 (60.20)	377-1257-ND	23.70	19.75	17.80	PN-1334-C
Fig. 30 — Plastic NEMA Enclosures — Style 3								
1.38 (35.05)	2.56 (65.02)	2.28 (57.91)	0.99 (25.146)	377-1113-ND	5.90	4.90	4.40	PN-1320-DG
1.57 (39.88)	4.53 (115.06)	2.56 (65.02)	0.99 (25.146)	377-1115-ND	7.60	6.34	5.70	PN-1321-DG
2.17 (55.12)	4.53 (115.06)	2.56 (65.02)	1.58 (40.13)	377-1118-ND	8.50	7.09	6.41	PN-1322-DG
2.17 (55.12)	4.53 (115.06)	3.54 (89.92)	1.58 (40.13)	377-1121-ND	10.30	8.57	7.73	PN-1323-DG
2.17 (55.12)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1124-ND	14.90	12.44	11.18	PN-1324-DG
2.17 (55.12)	8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1126-ND	20.20	16.84	15.15	PN-1325-DG
3.15 (80.01)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1128-ND	14.70	12.24	11.03	PN-1327-DG
3.15 (80.01)	4.53 (115.06)	3.54 (89.92)	2.56 (65.02)	377-1130-ND	11.10	9.24	8.30	PN-1328-DG
2.95 (74.93)	8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1132-ND	18.00	14.99	13.50	PN-1329-DG
3.35 (85.09)	6.30 (160.02)	3.15 (80.01)	2.76 (70.10)	377-1135-ND	13.00	10.85	9.75	PN-1333-DG
2.95 (74.93)	7.87 (199.90)	4.72 (119.89)	2.37 (60.199)	377-1137-ND	17.30	14.40	12.95	PN-1334-DG
3.74 (94.99)	10.43 (264.93)	7.28 (184.91)	2.95 (74.93)	377-1259-ND	29.10	24.35	20.36	PN-1335-DG

Aluminum NEMA Boxes

Finish	Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
	L	W	H	Part No.	1	10	100	Part No.
Fig. 31 — NEMA Sealed Die-Cast Enclosures								
Natural	3.54 (89.92)	1.42 (36.07)	1.18 (29.97)	377-1099-ND§	6.30	5.27	4.73	AN-1300
	2.52 (64.01)	2.28 (57.91)	1.38 (35.05)	377-1100-ND	6.50	5.42	4.88	AN-1301
	4.53 (115.06)	2.56 (65.02)	1.18 (29.97)	377-1101-ND	9.40	7.84	7.08	AN-1302
	4.53 (115.06)	2.56 (65.02)	2.17 (55.12)	377-1102-ND	11.40	9.52	8.55	AN-1303
	4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1103-ND	13.40	11.19	10.05	AN-1304
	5.83 (148.08)	4.25 (107.95)	2.95 (74.93)	377-1104-ND§	24.00	20.00	18.00	AN-1305
	6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1105-ND§	24.40	20.36	18.30	AN-1306
	8.75 (222.25)	5.75 (146.05)	2.17 (55.12)	377-1106-ND	25.80	21.52	19.35	AN-1307
Gray	4.53 (115.06)	2.56 (65.02)	1.18 (29.97)	377-1190-ND	15.20	12.67	11.43	AN-1302-G
	4.53 (115.06)	2.56 (65.02)	2.17 (55.12)	377-1191-ND	17.80	14.84	13.38	AN-1303-G
	4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1192-ND	21.40	17.84	16.05	AN-1304-G
	5.83 (148.08)	4.25 (107.95)	2.95 (74.93)	377-1193-ND	34.40	28.67	25.80	AN-1305-G
	6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1194-ND	34.80	29.02	26.10	AN-1306-G
	8.75 (222.25)	5.75 (146.05)	2.17 (55.12)	377-1195-ND	37.40	31.19	28.05	AN-1307-G
Fig. 31 — NEMA Diecast Aluminum Boxes with Mounting Flanges								
Natural	3.54 (89.92)	1.42 (36.07)	1.18 (29.97)	377-1426-ND	14.00	11.69	10.53	AN-2800
Black	3.54 (89.92)	1.42 (36.07)	1.18 (29.97)	377-1427-ND	14.70	12.24	11.03	AN-2800-B
Natural	2.52 (64.01)	2.28 (57.91)	1.38 (35.05)	377-1428-ND	14.40	11.99	10.78	AN-2801
Black	2.52 (64.01)	2.28 (57.91)	1.38 (35.05)	377-1429-ND	15.30	12.75	11.48	AN-2801-B
Natural	4.53 (115.06)	2.56 (65.02)	1.18 (29.97)	377-1430-ND	18.00	15.00	13.50	AN-2802
Black	4.53 (115.06)	2.56 (65.02)	1.18 (29.97)	377-1431-ND	19.70	16.40	14.78	AN-2802-B
Natural	4.53 (115.06)	2.56 (65.02)	2.17 (55.12)	377-1432-ND	20.60	17.19	15.45	AN-2803
Black	4.53 (115.06)	2.56 (65.02)	2.17 (55.12)	377-1433-ND	22.20	18.50	16.65	AN-2803-B
Natural	4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1434-ND	22.40	18.65	16.80	AN-2804
Black	4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1435-ND	24.90	20.74	18.65	AN-2804-B
Natural	5.83 (148.08)	4.25 (107.95)	2.95 (74.93)	377-1436-ND	35.30	29.42	26.48	AN-2805
Black	5.83 (148.08)	4.25 (107.95)	2.95 (74.93)	377-1437-ND	39.20	32.67	29.43	AN-2805-B
Natural	6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1438-ND	36.40	30.34	27.33	AN-2806
Black	6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1439-ND	39.90	33.27	29.93	AN-2806-B
Natural	8.75 (222.25)	5.75 (146.05)	2.17 (55.12)	377-1440-ND	39.30	32.77	29.48	AN-2807
Black	8.75 (222.25)	5.75 (146.05)	2.17 (55.12)	377-1441-ND	46.30	38.57	34.70	AN-2807-B
Natural	8.75 (222.25)	5.75 (146.05)	3.25 (82.55)	377-1442-ND	44.80	37.36	33.60	AN-2808
Black	8.75 (222.25)	5.75 (146.05)	3.25 (82.55)	377-1443-ND	52.00	43.34	39.00	AN-2808-B
Natural	4.75 (120.65)	4.75 (120.65)	4.00 (101.6)	377-1444-ND	39.20	32.67	29.43	AN-2809
Black	4.75 (120.65)	4.75 (120.65)	4.00 (101.6)	377-1445-ND	42.50	35.40	31.88	AN-2809-B
Natural	6.25 (158.75)	6.25 (158.75)	4.00 (101.6)	377-1446-ND	44.00	36.67	33.03	AN-2810
Black	6.25 (158.75)	6.25 (158.75)	4.00 (101.6)	377-1447-ND	48.70	40.57	36.53	AN-2810-B
Natural	1.97 (50.04)	1.77 (44.96)	1.12 (28.45)	377-1448-ND	13.60	11.36	10.20	AN-2811
Black	1.97 (50.04)	1.77 (44.96)	1.12 (28.45)	377-1449-ND	14.30	11.94	10.73	AN-2811-B
Natural	3.85 (97.79)	2.52 (64.01)	1.35 (34.29)	377-1450-ND	17.50	14.61	13.16	AN-2812
Black	3.85 (97.79)	2.52 (64.01)	1.35 (34.29)	377-1451-ND	18.80	15.69	14.13	AN-2812-B
Natural	4.90 (124.46)	3.14 (79.76)	1.59 (40.39)	377-1452-ND	21.20	17.69	15.90	AN-2813
Black	4.90 (124.46)	3.14 (79.76)	1.59 (40.39)	377-1453-ND	23.90	19.92	17.96	AN-2813-B
Natural	4.90 (124.46)	3.14 (79.76)	2.26 (57.40)	377-1454-ND	23.40	19.49	17.53	AN-2814
Black	4.90 (124.46)	3.14 (79.76)	2.26 (57.40)	377-1455-ND	26.40	22.02	19.83	AN-2814-B
Natural	5.91 (150.11)	2.52 (64.01)	1.45 (36.83)	377-1456-ND	22.70	18.94	17.03	AN-2815
Black	5.91 (150.11)	2.52 (64.01)	1.45 (36.83)	377-1457-ND	24.50	20.40	18.38	AN-2815-B
Natural	6.29 (159.77)	3.93 (99.82)	2.37 (60.20)	377-1458-ND	34.80	29.02	26.13	AN-2816
Black	6.29 (159.77)	3.93 (99.82)	2.37 (60.20)	377-1459-ND	38.60	32.19	28.95	AN-2816-B
Natural	6.29 (159.77)	3.93 (99.82)	3.19 (81.03)	377-1460-ND	37.40	31.17	28.05	AN-2817
Black	6.29 (159.77)	3.93 (99.82)	3.19 (81.03)	377-1461-ND	41.30	34.42	31.01	AN-2817-B
Fig. 31 — NEMA Die Cast Aluminum Boxes								
Natural	2.36 (59.94)	2.16 (54.86)	1.22 (30.99)	377-1511-ND	5.70	4.75	4.30	CN-5700
	3.15 (80.01)	2.16 (54.86)	1.00 (25.40)	377-1512-ND	6.20	5.15	4.65	CN-5701
	3.52 (89.41)	1.38 (35.05)	1.22 (30.99)	377-1513-ND	5.50	4.60	4.15	CN-5702
	4.51 (114.55)	2.50 (63.50)	1.22 (30.99)	377-1514-ND	8.85	7.35	6.60	CN-5703
	4.51 (114.55)	2.50 (63.50)	2.22 (56.39)	377-1515-ND	10.50	8.75	7.90	CN-5704
	4.54 (115.32)	3.57 (90.68)	2.22 (56.39)	377-1516-ND	12.20	10.20	9.20	CN-5705
	4.73 (120.14)	3.95 (100.33)	1.44 (36.58)	377-1517-ND	12.00	10.00	9.00	CN-5706
	5.47 (138.94)	4.01 (101.85)	3.05 (77.47)	377-1518-ND	16.80	14.00	12.60	CN-5707
	6.51 (165.35)	5.01 (127.25)	3.05 (77.47)	377-1519-ND	21.80	18.20	16.40	CN-5708
	6.78 (172.21)	4.77 (121.16)	2.22 (56.39)	377-1520-ND	20.10	16.75	15.10	CN-5709
	6.78 (172.21)	4.77 (121.16)	4.21 (106.93)	377-1521-ND	24.70	20.60	18.55	CN-5710

§ No wall mounting holes

(Continued)

Fig. 27 — Fiberglass NEMA Boxes

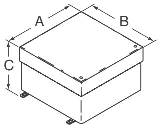

Meets NEMA 1, 2, 4, 4X, 12, 13 and IP66 Ratings

• Fiberglass Reinforced Plastic (SMC) • Provides outstanding protection against corrosion • Chemical resistant and impervious to dents • Stainless Steel hinge, screws, wall mounting brackets • Listed and tested to UL-508-4X requirements

Fig. 28 — Blue Transparent NEMA Boxes

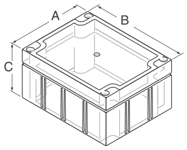

Meets NEMA 1, 2, 4, 4X, 12, 13, IEC52/IP65 and UL508-4X Ratings

• Transparent blue polycarbonate • UV stabilized polycarbonate with UL94-V2 flammability rating

Fig. 29 — Sheet Metal NEMA Boxes

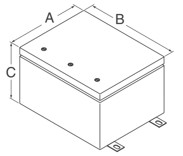

Meets NEMA 1, 2, 4, 4X, 12, 13, IP65 and UL508-4X Ratings

• Continuous seam welded 16AWG steel construction
• Cover closes securely with unique key provided

Fig. 30 — Plastic NEMA Enclosures

Meets NEMA 1, 2, 4, 4X, 12 and 13 Ratings

Style 1: • Light gray polycarbonate body and cover • UV stabilized • UL94V-2 flammability rating

Style 2: • Light gray polycarbonate body and clear polycarbonate cover • UV stabilized • UL94V-2 flammability rating

Style 3: • Dark gray ABS body and cover • UL94-HB flammability rating

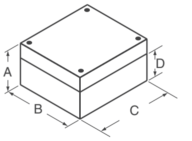

Fig. 31 — Die Cast Aluminum NEMA Boxes with or without Mounting Flanges

Meets NEMA 1, 2, 4, 4X, 12 and 13 Ratings

- ADC-10 aluminum alloy
- Tested and listed to UL-508 Type 4X requirements (UL File #E194432)
- Heavy duty .09" thick external wall mounting bracket
- Mounts to wall or panel with #10 size screws (not included)

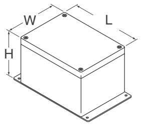

Fig. 32 — NEMA Sheet Metal Box with Mounting Flanges

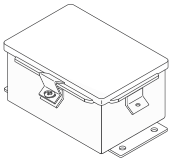

Meets NEMA 1, 2, 4, 4X, 12, 13, IP65 and UL508-4X Ratings

- Durable 14 gauge steel
- Hinged cover

Finish	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Natural	8.75 (222.25)	5.74 (145.80)	2.25 (57.15)	377-1522-ND	26.40	22.05	19.85	CN-5711
	8.75 (222.25)	5.74 (145.80)	4.22 (107.19)	377-1523-ND	35.70	29.80	26.80	CN-5712
	9.85 (250.19)	9.85 (250.19)	4.01 (101.85)	377-1524-ND	62.60	52.25	47.05	CN-5713
	10.81 (274.57)	6.89 (175.01)	2.64 (67.06)	377-1525-ND	38.90	32.45	29.21	CN-5714
Fig. 31 — NEMA Die Cast Aluminum Boxes with Mounting Flanges								
Natural	3.52 (89.41)	1.38 (35.05)	1.22 (30.99)	377-1526-ND	7.00	5.85	5.25	CN-6702
	4.51 (114.55)	2.50 (63.50)	1.22 (30.99)	377-1527-ND	11.10	9.25	8.35	CN-6703
	4.51 (114.55)	2.50 (63.50)	2.22 (56.39)	377-1528-ND	13.10	10.95	9.85	CN-6704
	4.54 (115.32)	3.57 (90.68)	2.22 (56.39)	377-1529-ND	14.90	12.45	11.20	CN-6705
	4.73 (120.14)	3.95 (100.33)	1.44 (36.58)	377-1530-ND	14.90	12.45	11.20	CN-6706
	5.47 (138.94)	4.01 (101.85)	3.05 (77.47)	377-1531-ND	19.80	16.50	14.85	CN-6707
	6.51 (165.35)	5.01 (127.25)	3.05 (77.47)	377-1532-ND	24.80	20.70	18.65	CN-6708
	6.78 (172.21)	4.77 (121.16)	2.22 (56.39)	377-1533-ND	23.10	19.30	17.35	CN-6709
	6.78 (172.21)	4.77 (121.16)	4.21 (106.93)	377-1534-ND	27.80	23.20	20.90	CN-6710
	8.75 (222.25)	5.74 (145.80)	2.25 (57.15)	377-1535-ND	31.20	26.05	23.46	CN-6711

§ No wall mounting holes

Sheet Metal NEMA Boxes

Finish	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Fig. 32 — NEMA Sheet Metal Boxes with Mounting Flanges								
Gray	6.00 (152.40)	4.00 (101.60)	3.00 (76.20)	377-1501-ND	39.90	33.38	30.11	SN-3700
	8.00 (203.20)	6.00 (152.40)	3.50 (88.90)	377-1502-ND	48.00	40.15	36.22	SN-3701
	6.00 (152.40)	6.00 (152.40)	4.00 (101.60)	377-1503-ND	44.00	36.80	33.20	SN-3702
	12.00 (304.80)	10.00 (254.00)	5.00 (127.00)	377-1504-ND	77.80	65.07	58.71	SN-3703
	10.00 (254.00)	8.00 (203.20)	6.00 (152.40)	377-1505-ND	73.70	61.64	55.61	SN-3704
	12.00 (304.80)	12.00 (304.80)	6.00 (152.40)	377-1506-ND	91.00	76.11	68.67	SN-3705
	14.00 (355.60)	12.00 (304.80)	6.00 (152.40)	377-1507-ND	99.20	82.97	74.86	SN-3706
	16.00 (406.40)	14.00 (355.60)	6.00 (152.40)	377-1508-ND	118.50	99.11	89.42	SN-3707
	14.00 (355.60)	12.00 (304.80)	8.00 (203.20)	377-1509-ND	113.00	94.51	85.27	SN-3708
	16.00 (406.40)	14.00 (355.60)	10.00 (254.00)	377-1510-ND	146.00	122.11	110.17	SN-3709

BUD'S WATERTIGHT BOXES: NEMA 4X PROTECTION AT NEMA 12 PRICES

POLYCARBONATE

- Made from ABS and Polycarbonate plastics
- Designed to meet NEMA 1, 2, 4, 4x, 12, 13 and IP65 and UL508-4X ratings.
- Hundreds of sizes and styles available

DIE CAST ALUMINUM

- Made from #ADC-12 Alloy Die Cast Aluminum
- Designed to meet NEMA 1, 2, 4, 4x, 12, 13 and IP65 ratings.
- Available with and without mounting flanges

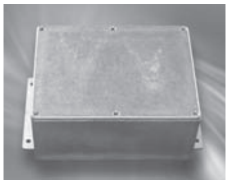

FIBERGLASS

- Made from Fiberglass reinforced plastic (SMC)
- Designed to meet NEMA 1, 2, 4, 4x, 12, 13, IP66 and UL508-4X ratings.
- Sizes range from 7.74" x 7.74" x 4.5" to 15.79" x 13.89" x 6.5"

STEEL

- Made from 14 ga. steel.
- Designed to meet NEMA 1, 2, 4, 4x, 12, 13 and IP65 and UL508-4X ratings.
- Available in 16 sizes ranging from 6" x 4" x 3" to 16" x 14" x 10"

Modifications Available

Bud Industries, Inc.

Racks

377-1412-ND Design Tips Handbook.......................**$1.99**

Dimensions in Inch (mm)

Fig. 1 — Aluminum Open Racks

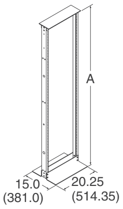

- Panel holes #12-24 tapped • 1,000 pounds load capacity • Use 377-1404-ND screws

Fig. 2 — Rack Mount Chassis

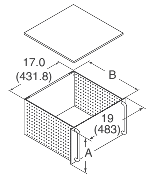

- Front panel .12" thick mill finish aluminum with "Surface Shield" protection
- Side panels are punched on a .87" grid
- Handles and covers sold separately

Fig. 3 — Small Rack Mount Chassis

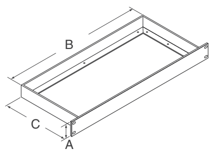

- Panels .10" thick aluminum; chassis .05" thick aluminum • Covers sold separately

Fig. 4 — ValuLine Cabinets

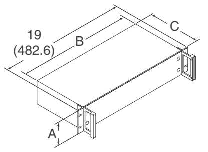

- Side and front panels .09" aluminum; base, rear and top .05" aluminum • 25 lbs. load capacity • Rack mounting brackets and rubber feet included

Fig. 5 — Keyboard/Mouse Shelf

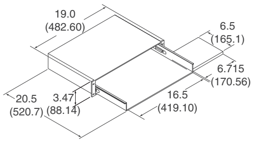

- Fits 19" panel • Mouse pad slides underneath right or left • Takes up 2-U of panel space

Fig. 6 — Sliding Drawer

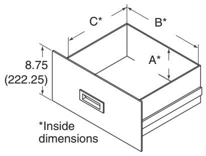

- Fits 19" panel • Supports heavy loads, even when fully extended

Fig. 7 — Stationary Shelves

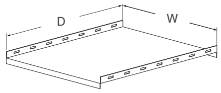

- Fits 19" wide panel spaces • Supports up to 200 pounds • Requires two pairs of panel mounting rails per cabinet

Fig. 8 — Adjustable Shelf

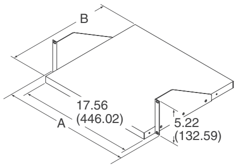

- Fits 19" panel spaces • Adjustable for depth within rack • Supports 150 pounds

Fig. 9 — Equipment Shelves

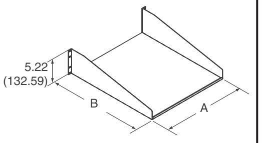

- Fits 19" panel spaces • One piece construction • Supports 150 pounds

Fig. 10 — Open Rack Shelf

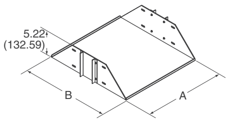

- Fits 19" panel spaces • Supports 200 pounds

Open Racks

Color	Dimensions - Inch (cm)		Digi-Key	Price Each		Bud Ind.
	A	Panel Space	Part No.	1	5	Part No.
Fig. 1 — Aluminum Open Racks — RoHS Compliant						
Black	84.00 (213.36)	77.00 x 19.00 (195.58 x 48.26)	377-1196-ND	260.00	217.08	ARR-1272-BT
Natural	84.00 (213.36)	77.00 x 19.00 (195.58 x 48.26)	377-1197-ND	240.00	200.44	ARR-1272-NF

Rack Mount Chassis

Dimensions - Inch (mm)		Handles	Digi-Key	Price Each			Bud Ind.
A	B		Part No.	1	5	10	Part No.
Fig. 2 — Rack Mount Chassis — RoHS Compliant							
5.25 (133.35)	17.06 (433.32)	H-9160-B	377-1268-ND	64.80	54.10	48.70	RM-14212
7.00 (177.8)	17.06 (433.32)	H-9111-B	377-1269-ND	74.20	61.95	55.75	RM-14213
5.25 (133.35)	22.00 (558.8)	H-9160-B	377-1392-ND	73.00	60.95	54.85	RM-14222
7.00 (177.8)	22.00 (558.8)	H-9111-B	377-1393-ND	85.60	71.50	64.35	RM-14223
8.75 (222.25)	22.00 (558.8)	H-9112-B	377-1394-ND	104.30	87.10	78.40	RM-14224
10.50 (266.7)	22.00 (558.8)	H-9113-B	377-1395-ND	124.30	103.80	93.40	RM-14225

Description	Fits Chassis	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Rack Mount Chassis Covers — RoHS Compliant					
Solid Top or Bottom Cover	RM-14212-13	377-1310-ND	29.60	24.75	TBC-14252
Ventilated Top or Bottom Cover		377-1311-ND	33.10	27.65	TBC-14262
Solid Top or Bottom Cover	RM-14222-25	377-1396-ND	33.60	28.10	TBC-14253
Ventilated Top or Bottom Cover		377-1397-ND	35.50	29.70	TBC-14263

Dimensions - Inch (mm) A x B x C	Fits Rack Inch (mm)	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 3 — Small Rack Mount Chassis — RoHS Compliant					
1.75 x 17.00 x 4.00 (44.45 x 431.8 x 101.6)	19.00 (482.6)	377-1205-ND	36.00	30.08	CH-14400
1.75 x 17.00 x 8.00 (44.45 x 431.8 x 203.2)	19.00 (482.6)	377-1206-ND	43.50	36.34	CH-14401
1.75 x 17.00 x 16.00 (44.45 x 431.8 x 406.4)	19.00 (482.6)	377-1207-ND	63.50	53.08	CH-14402
3.50 x 17.00 x 8.00 (88.9 x 431.8 x 203.2)	19.00 (482.6)	377-1208-ND	61.40	51.25	CH-14403
3.50 x 17.00 x 16.00 (88.9 x 431.8 x 203.2)	19.00 (482.6)	377-1209-ND	78.80	65.80	CH-14404

Description	Fits Chassis	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Small Rack Mount Chassis Covers — RoHS Compliant					
Ventilated Top or Bottom Cover	CH-14400	377-1417-ND	10.80	9.04	C-14430
Solid Top or Bottom Cover		377-1420-ND	9.10	7.59	C-14440
Ventilated Top or Bottom Cover	CH-14401, 03	377-1418-ND	18.20	15.23	C-14431
Solid Top or Bottom Cover		377-1421-ND	14.40	12.00	C-14441
Ventilated Top or Bottom Cover	CH-14402, 04	377-1419-ND	29.10	24.31	C-14432
Solid Top or Bottom Cover		377-1422-ND	24.50	20.46	C-14442

Dimensions - Inch (mm) A x B x C	Fits Rack Inch (mm)	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 4 — ValuLine Series Cabinets (with handles) — RoHS Compliant					
3.50 x 17.00 x 8.00 (88.9 x 431.8 x 203.2)	19.00 (482.6)	377-1238-ND	97.00	81.00	HC-14099
3.50 x 17.00 x 13.00 (88.9 x 431.8 x 330.2)	19.00 (482.6)	377-1239-ND	188.90	157.70	HC-14101
5.25 x 17.00 x 13.00 (133.35 x 431.8 x 330.2)	19.00 (482.6)	377-1240-ND	194.70	162.60	HC-14103
7.00 x 17.00 x 13.00 (177.8 x 431.8 x 330.2)	19.00 (482.6)	377-1241-ND	204.40	170.70	HC-14104
8.75 x 17.00 x 13.00 (222.25 x 431.8 x 330.2)	19.00 (482.6)	377-1242-ND	214.20	178.85	HC-14105
10.50 x 17.00 x 15.00 (266.7 x 431.8 x 381)	19.00 (482.6)	377-1243-ND	239.60	200.05	HC-14107

Accessories

Color	Maximum Panel Keyboard Width – Inch (cm)	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 5 — Keyboard/Mouse Shelf					
Black	19.0 x 16.5 (48.26 x 41.91)	377-1244-ND	180.00	150.30	KS-1785-BT

Color	Dimensions - Inch (cm)			Digi-Key	Price Each		Bud Ind.
	A	B	C	Part No.	1	5	Part No.
Fig. 6 — Sliding Drawer (inside dimensions) — RoHS Compliant							
Black	6.31 (16.03)	16.56 (42.06)	19.18 (48.72)	377-1224-ND	268.50	224.20	D-1723-BT

Color	Dimensions - Inch (cm)		Digi-Key	Price Each			Bud Ind.
	Width	Depth	Part No.	1	3	5	Part No.
Fig. 7 — Stationary Shelves – Non Ventilated							
Black	17.90 (45.47)	26.50 (67.31)	377-1306-ND◆	89.30	66.90	62.50	SH-2382
	17.90 (45.47)	19.25 (48.90)	377-1188-ND	79.40	59.50	55.60	60-2380
	17.90 (45.47)	22.75 (57.79)	377-1189-ND	83.40	62.50	58.40	60-2381
	17.00 (43.18)	17.75 (45.09)	377-1416-ND†◆	144.00	—	107.90	SH-2388
Fig. 7 — Stationary Shelves – Ventilated — RoHS Compliant							
Black	17.90 (45.47)	17.75 (45.09)	377-1307-ND	83.20	62.35	58.25	SH-2384
	17.90 (45.47)	21.25 (53.98)	377-1308-ND	86.30	64.65	60.40	SH-2385
	17.90 (45.47)	26.50 (67.31)	377-1309-ND	93.50	70.05	65.45	SH-2386
	17.00 (43.18)	17.75 (45.09)	377-1415-ND†	146.40	—	109.70	SH-2392

† Sliding Shelf

Color	Dimensions - Inch (cm)		Digi-Key	Price Each			Bud Ind.
	A	B	Part No.	1	10	50	Part No.
Fig. 8 — Adjustable Shelf-Open Rack — RoHS Compliant							
Black	17.62 (44.75)	20.00 (50.80)	377-1290-ND	108.90	90.90	81.81	SA-1279-BT
Fig. 9 — Equipment Shelves-Open Rack-Non Ventilated — RoHS Compliant							
Black	17.62 (44.75)	15.00 (38.10)	377-1291-ND	73.60	61.45	55.30	SA-1750-BT
	17.62 (44.75)	20.00 (50.80)	377-1293-ND	88.00	73.50	66.15	SA-1752-BT
Fig. 9 — Equipment Shelves-Open Rack-Ventilated — RoHS Compliant							
Black	17.62 (44.75)	15.00 (38.10)	377-1292-ND	80.40	67.15	60.45	SA-1751-BT
	17.62 (44.75)	20.00 (50.80)	377-1294-ND	95.40	79.65	71.70	SA-1753-BT
Fig. 10 — Open Rack Shelf-Non Ventilated — RoHS Compliant							
Black	17.62 (44.75)	19.00 (48.26)	377-1295-ND	92.80	77.50	69.75	SA-1765-BT

Wheel Description	Dimension A Inch (mm)	Load Rating	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 11 — Casters (Sold in Pairs) — RoHS Compliant							
Composition	3.25 (82.55)	200 lbs.	377-1264-ND	32.90	27.40	21.90	RC-7758-PR
Rubber with Brake	5.13 (130.18)	240 lbs.	377-1265-ND	77.50	64.60	58.16	RC-7761-PR
Rubber	5.13 (130.18)	240 lbs.	377-1266-ND	67.00	55.85	50.25	RC-7762-PR

◆ ***RoHS Compliant***

(Continued)

Dimensions in Inch (mm)

Fig. 11 — Casters

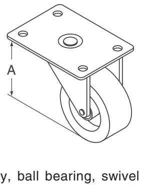

- Heavy duty, ball bearing, swivel type • Hard tread rubber

Fig. 12 — Handles

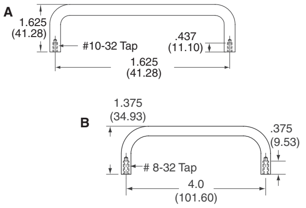

- High quality • Designed for long wear

Fig. 13 — Panels

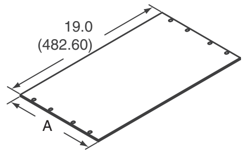

Fig. 14 — Chassis Support Brackets

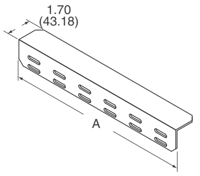

- Attaches to panel mounting rail accessory flange
- Sold in pairs

Fig. 15 — Panel Mounting Rails

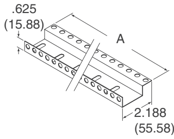

- 12 gauge steel • Rail mounting hardware included (Use 377-1403-ND screws, sold separately) • Black finish • Sold in pairs

Fig. 16 — Slides

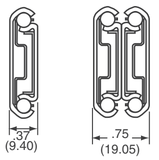

- Telescoping • Zinc-plated alloy steel with ball bearings

Fig. 17 — Slide Mounting Brackets

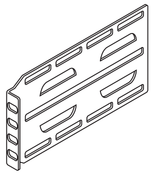

- Designed for mounting two and three piece slides
- Sold in pairs

Fig. 18 — Tem-Stat Temperature Control

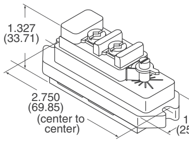

- Contacts open when there is a 10°F drop in temperature • Prevents shut-downs caused by overheating

Fig. 19 — Fans and Blowers

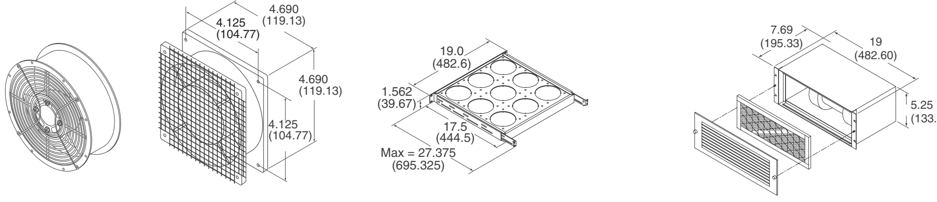

FN-1280: • Mounts in FT-1170 fan tray or can be used for individual applications • Supplied with finger guard • UL approved, 105 CFM

FN-1282: • Mounts in top of ventilated Economizer racks • Supplied with finger guard • UL/CSA rated, 535 CFM

- 19" panel width with standard EIA notching for rack mounting • Motors are UL and CSA approved for 115VAC, 50/60Hz

Fig. 20 — Fan Tray Assemblies

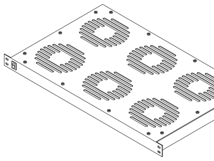

- Standard EIA 19.00" x 1-U (1.75") panel mounting
- 115VAC • 7' long, three prong, power cord

Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
Hand Clearance	Mounting Center	Diameter	Part No.	1	10	100	Part No.
Fig. 12A — Chrome Plated Handles — RoHS Compliant							
1.25 (31.75)	6.00 (152.4)	.37 (9.398)	377-1228-ND*	8.30	6.95	6.25	H-9110-B
.93 (23.62)	4.00 (101.6)	.37 (9.398)	377-1229-ND*	6.40	5.30	4.75	H-9111-B
.93 (23.62)	6.00 (152.4)	.37 (9.398)	377-1230-ND*	7.80	6.50	5.85	H-9112-B
.93 (23.62)	8.00 (203.2)	.37 (9.398)	377-1231-ND	10.60	8.85	7.95	H-9113-B
1.50 (38.1)	8.00 (203.2)	.50 (12.7)	377-1232-ND†	16.50	13.80	12.40	H-9114-B
1.68 (3.36)	3.50 (88.9)	.37 (9.398)	377-1233-ND†	12.40	10.35	9.30	H-9160-B
1.68 (3.36)	5.25 (133.35)	.37 (9.398)	377-1234-ND†	10.60	8.90	8.00	H-9161-B
1.00 (25.4)	1.90 (48.26)	.25 (6.35)	377-1235-ND§	6.00	5.00	4.50	H-9166-B
1.00 (25.4)	3.00 (76.2)	.25 (6.35)	377-1236-ND§	5.70	4.70	4.25	H-9168-B

* Includes 2 - #10-32 x .37" screws. † Includes 2 - #6-32 x .50" screws. § Includes 2 - 1/4"-28 Hex nuts.

Dimensions - Inch (mm)		Digi-Key	Price Each			Bud Ind.
Hand Clearance	Mounting Center	Part No.	1	10	100	Part No.
Fig. 12B — Clear Anodized Aluminum Handle — RoHS Compliant						
1.09 (27.69)	4.00 (101.6)	377-1237-ND*	10.85	9.05	8.15	H-9174-B

* Includes 2-8.32 x .37" screws

Dimension - Inch (mm) A	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 13 — 19" Aluminum Surface Shield Panels – .12" Thick — RoHS Compliant					
1.75 (44.45)	377-1300-ND	9.50	7.95	7.15	SFA-1831
3.50 (88.9)	377-1301-ND	13.90	11.55	10.40	SFA-1832
5.25 (133.35)	377-1302-ND	17.80	14.90	13.40	SFA-1833
7.00 (177.8)	377-1303-ND	22.80	19.05	17.15	SFA-1834
8.75 (222.25)	377-1304-ND	25.00	20.85	18.75	SFA-1835
10.50 (266.7)	377-1305-ND	32.40	27.00	24.30	SFA-1836
Fig. 13 — 19" Aluminum Panels – .12" Thick (Gray) — RoHS Compliant					
1.75 (44.45)	377-1247-ND	10.35	8.65	7.80	PA-1101-MG
3.50 (88.9)	377-1248-ND	14.40	12.00	10.80	PA-1102-MG
5.25 (133.35)	377-1249-ND	19.70	16.40	14.75	PA-1103-MG
7.00 (177.8)	377-1250-ND	24.50	20.50	18.45	PA-1104-MG
8.75 (222.25)	377-1251-ND	29.70	24.80	22.30	PA-1105-MG
10.50 (266.7)	377-1252-ND	37.70	31.50	28.35	PA-1106-MG
12.25 (311.15)	377-1253-ND	41.40	34.50	31.05	PA-1107-MG
14.00 (355.6)	377-1254-ND	53.00	44.21	39.78	PA-1108-MG
Fig. 14 — Chassis Support Brackets (Sold in Pairs) — RoHS Compliant					
13.00 (330.2)	377-1213-ND	30.30	25.30	22.75	CSB-1352
16.00 (406.4)	377-1214-ND	32.80	27.38	24.66	CSB-1353
23.00 (584.2)	377-1215-ND	35.50	29.63	26.69	CSB-1354

Dimension - Inch (cm) A	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 15 — Panel Mounting Rails (Sold in Pairs) — RoHS Compliant					
70.0 (177.80)	377-1413-ND	120.70	100.80	90.70	PMR-9453

Dimensions - Inch (cm)		Load Rating	Digi-Key	Price Each			Bud Ind.
Slide Length	Travel	(per pair)	Part No.	1	3	5	Part No.
Fig. 16 — Sliding Mechanisms – 2 Piece Slide — RoHS Compliant							
12 (30.48)	8 (20.32)	140 lbs.	377-1199-ND	30.50	25.45	22.90	AS-5000-A
16 (40.64)	12 (30.48)	120 lbs.	377-1200-ND	40.10	33.50	30.15	AS-5001-A
20 (50.80)	15 (38.10)	92 lbs.	377-1201-ND	42.00	35.10	31.60	AS-5002-A
26 (66.04)	19 (48.26)	70 lbs.	377-1202-ND	46.40	38.75	34.90	AS-5004-A
20 (50.80)	20.875 (53.02)	91 lbs.	377-1203-ND*	91.00	76.00	68.40	AS-5042-A

* 3 piece slide full extension

Description	Digi-Key Part No.	Price Each 1	3	5	Bud Ind. Part No.
Fig. 17 — Slide Mounting Brackets (Sold in Pairs) — RoHS Compliant					
Universal Kit	377-1204-ND	30.20	25.05	22.55	BAS-5106

Description	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 18 — Tem-Stat Temperature Control — RoHS Compliant					
Normally Open; Closes on Temperature Rise...	377-1314-ND	34.80	—	26.15	TS-15
Rack Mount Power Outlet Strip					
15 Amps..	377-1414-ND	70.00	52.50	49.06	POS-194-S
Mounting Hardware					
10-32 X .62" Phillips Screw Truss Head........	377-1403-ND		4.00/25		7346
10-32 X .62" Phillips Screw with Pilot, Black...	377-1409-ND		7.00/25		7346B
10-32 Cage Nut, Zinc-Plated	377-1405-ND◆		21.25/25		295
12-24 X .5" Phillips Screw Truss Head	377-1404-ND		5.00/25		9260
Fig. 19 — Fans and Blowers — RoHS Compliant					
Tubeaxial, 110V, .21 Amps.....................	377-1225-ND	46.88	37.50	28.15	FN-1280
Exhaust, 10 inch, 115VAC......................	377-1226-ND	179.60	134.70	125.70	FN-1282
Fan Tray Assembly	377-1227-ND*	235.50	176.65	164.85	FT-1170-MG
Fig. 20 — Fan Tray Assemblies					
Assembly with 3 Fans, Total CFM 315..........	377-1423-ND◆	195.50	141.74	136.84	FT-1973
Assembly with 6 Fans, Total CFM 630..........	377-1424-ND◆	300.80	218.10	210.54	FT-1976
Assembly with 9 Fans, Total CFM 945..........	377-1425-ND	394.50	286.02	276.14	FT-1979

◆ ***RoHS Compliant*** * Fans sold separately, part number 377-1225-ND.

Fig. 1

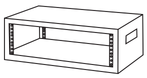

Desk Top Rack (Light-Duty)- RCBS Series - 18-gauge steel economy 19” table top rack. Rails are fixed at both front and rear. Includes rubber feet, 2 lifting handles and 10-32 clip nuts. Overall width 20”, overall height 1” over panel space. Finish textured; black or gray/beige (Ral7032) powder paint.

Fig. 2

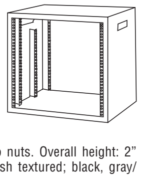

Desk Top Rack (Heavy-Duty) - RCHS Series- 18 gauge steel 19” table top rack. Rails are fixed at both front and rear. Includes 2 pair of fixed accessory rails (for rear support of heavier equipment), rubber feet, 2 lifting handles and 10-32 clip nuts. Overall height: 2” larger than panel height. Finish textured; black, gray/beige (RAL7032) or gulf blue powder paint.

Fig. 3

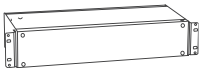

Rack Mount/Desk Top Enclosure RMCS & RMCV Series- mounts in standard 19” rack space or can be used table top. Panels can be removed from any of all 6 sides with only 4 screws. Shipped knocked down and includes all hardware, rack mount ears and rubber feet. Finished in textured black powder paint.

Fig. 4

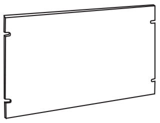

19” Aluminum Rack Panels PBPA: .125” thick, 19” rack mount panels. Finished in smooth black or gray/beige (RAL7032) powder paint and paper covered (one side) natural finish.

Color	Dimensions - Inch (mm)			Digi-Key	Price Each			Hammond
	Panel H	Panel W	Panel D	Part No.	1	3	5	Part No.
Fig. 1 - RCBS Desk Top Racks (Light Duty)								
Black	3.50 (89)	19.00 (483)	13.00 (330)	HM624-ND	94.29	87.04	75.43	RCBS1900313BK1
	5.25 (133)	19.00 (483)	13.00 (330)	HM625-ND	101.45	93.65	81.16	RCBS1900513BK1
	7.00 (178)	19.00 (483)	13.00 (330)	HM626-ND	109.71	101.28	87.78	RCBS1900713BK1
	8.75 (222)	19.00 (483)	13.00 (330)	HM627-ND	124.30	114.74	99.44	RCBS1900813BK1
	10.50 (267)	19.00 (483)	13.00 (330)	HM628-ND	130.02	120.02	104.01	RCBS1901013BK1
	12.25 (311)	19.00 (483)	13.00 (330)	HM629-ND	141.43	130.56	113.15	RCBS1901213BK1
	14.00 (356)	19.00 (483)	13.00 (330)	HM630-ND	177.15	163.53	141.72	RCBS1901413BK1
	5.25 (133)	19.00 (483)	17.50 (445)	HM631-ND	121.45	112.11	97.16	RCBS1900517BK1
	7.00 (178)	19.00 (483)	17.50 (445)	HM632-ND	141.43	130.56	113.15	RCBS1900717BK1
	8.75 (222)	19.00 (483)	17.50 (445)	HM633-ND	168.58	155.62	134.87	RCBS1900817BK1
	10.50 (267)	19.00 (483)	17.50 (445)	HM634-ND	178.58	164.85	142.87	RCBS1901017BK1
	12.25 (311)	19.00 (483)	17.50 (445)	HM635-ND	195.73	180.68	156.59	RCBS1901217BK1
	14.00 (356)	19.00 (483)	17.50 (445)	HM636-ND	200.00	184.62	160.00	RCBS1901417BK1
Gray	3.50 (89)	19.00 (483)	13.00 (330)	HM637-ND	94.29	87.04	75.43	RCBS1900313CG1
	5.25 (133)	19.00 (483)	13.00 (330)	HM638-ND	101.45	93.65	81.16	RCBS1900513CG1
	7.00 (178)	19.00 (483)	13.00 (330)	HM639-ND	109.71	101.28	87.78	RCBS1900713CG1
	8.75 (222)	19.00 (483)	13.00 (330)	HM640-ND	124.30	114.74	99.44	RCBS1900813CG1
	10.50 (267)	19.00 (483)	13.00 (330)	HM641-ND	130.02	120.02	104.01	RCBS1901013CG1
	12.25 (311)	19.00 (483)	13.00 (330)	HM642-ND	141.43	130.56	113.15	RCBS1901213CG1
	14.00 (356)	19.00 (483)	13.00 (330)	HM643-ND	177.15	163.53	141.72	RCBS1901413CG1
	5.25 (133)	19.00 (483)	17.50 (445)	HM644-ND	121.45	112.11	97.16	RCBS1900517CG1
	7.00 (178)	19.00 (483)	17.50 (445)	HM645-ND	141.43	130.56	113.15	RCBS1900717CG1
	8.75 (222)	19.00 (483)	17.50 (445)	HM646-ND	168.58	155.62	134.87	RCBS1900817CG1
	10.50 (267)	19.00 (483)	17.50 (445)	HM647-ND	178.58	164.85	142.87	RCBS1901017CG1
	12.25 (311)	19.00 (483)	17.50 (445)	HM648-ND	195.73	180.68	156.59	RCBS1901217CG1
	14.00 (356)	19.00 (483)	17.50 (445)	HM649-ND	200.00	184.62	160.00	RCBS1901417CG1
Fig. 2 - RCHS Desk Top (Heavy Duty)								
Black	8.75 (222)	19.00 (483)	17.50 (445)	HM650-ND	182.80	168.74	146.25	RCHS1900817BK1
	10.50 (267)	19.00 (483)	17.50 (445)	HM651-ND	211.40	195.14	169.12	RCHS1901017BK1
	14.00 (356)	19.00 (483)	17.50 (445)	HM652-ND	216.44	199.79	173.15	RCHS1901417BK1
	17.50 (445)	19.00 (483)	17.50 (445)	HM653-ND	224.73	207.45	179.79	RCHS1901717BK1
	22.75 (578)	19.00 (483)	17.50 (445)	HM654-ND	244.72	225.90	195.78	RCHS1902217BK1
	28.00 (711)	19.00 (483)	17.50 (445)	HM655-ND	287.64	265.51	230.11	RCHS1902817BK1
	10.50 (267)	19.00 (483)	24.50 (622)	HM656-ND	284.65	262.76	227.73	RCHS1901024BK1
	14.00 (356)	19.00 (483)	24.50 (622)	HM657-ND	299.62	276.58	239.69	RCHS1901424BK1
	17.50 (445)	19.00 (483)	24.50 (622)	HM658-ND	309.62	285.80	247.69	RCHS1901724BK1
	22.75 (578)	19.00 (483)	24.50 (622)	HM659-ND	319.62	295.03	255.70	RCHS1902224BK1
	28.00 (711)	19.00 (483)	24.50 (622)	HM660-ND	332.90	307.29	266.32	RCHS1902824BK1
Gray	8.75 (222)	19.00 (483)	17.50 (445)	HM661-ND	182.80	168.74	146.25	RCHS1900817CG1
	10.50 (267)	19.00 (483)	17.50 (445)	HM662-ND	211.40	195.14	169.12	RCHS1901017CG1
	14.00 (356)	19.00 (483)	17.50 (445)	HM663-ND	216.44	199.79	173.15	RCHS1901417CG1
	17.50 (445)	19.00 (483)	17.50 (445)	HM664-ND	224.73	207.45	179.79	RCHS1901717CG1
	22.75 (578)	19.00 (483)	17.50 (445)	HM665-ND	244.72	225.90	195.78	RCHS1902217CG1
	28.00 (711)	19.00 (483)	17.50 (445)	HM666-ND	287.64	265.51	230.11	RCHS1902817CG1
	10.50 (267)	19.00 (483)	24.50 (622)	HM667-ND	284.65	262.76	227.73	RCHS1901024CG1
	14.00 (356)	19.00 (483)	24.50 (622)	HM668-ND	299.62	276.58	239.69	RCHS1901424CG1
	17.50 (445)	19.00 (483)	24.00 (622)	HM669-ND	309.62	285.80	247.69	RCHS1901724CG1
	22.75 (578)	19.00 (483)	24.50 (622)	HM670-ND	319.62	295.03	255.70	RCHS1902224CG1
	28.00 (711)	19.00 (483)	24.50 (622)	HM671-ND	332.90	307.29	266.32	RCHS1902824CG1
Blue	8.75 (222)	19.00 (483)	17.50 (445)	HM672-ND	182.80	168.74	146.25	RCHS1900817GF1
	10.50 (267)	19.00 (483)	17.50 (445)	HM673-ND	211.40	195.14	169.12	RCHS1901017GF1
	14.00 (356)	19.00 (483)	17.50 (445)	HM674-ND	216.44	199.79	173.15	RCHS1901417GF1
	17.50 (445)	19.00 (483)	17.50 (445)	HM675-ND	224.73	207.45	179.79	RCHS1901717GF1
	22.75 (578)	19.00 (483)	17.50 (445)	HM676-ND	244.72	225.90	195.78	RCHS1902217GF1
	28.00 (711)	19.00 (483)	17.50 (445)	HM677-ND	287.64	265.51	230.11	RCHS1902817GF1
	10.50 (267)	19.00 (483)	24.50 (622)	HM678-ND	284.65	262.76	227.73	RCHS1901024GF1
	14.00 (356)	19.00 (483)	24.50 (622)	HM679-ND	299.62	276.58	239.69	RCHS1901424GF1
	17.50 (445)	19.00 (483)	24.50 (622)	HM680-ND	309.62	285.80	247.69	RCHS1901724GF1
	22.75 (578)	19.00 (483)	24.50 (622)	HM681-ND	319.62	295.03	255.70	RCHS1902224GF1
	28.00 (711)	19.00 (483)	24.50 (622)	HM682-ND	332.90	307.29	266.32	RCHS1902824GF1

Type	Dimensions - Inch (mm)		Panel Units	Digi-Key	Price Each			Hammond
	Panel H	Depth		Part No.	1	3	5	Part No.
Fig. 3 - RMCS and RMCV Rack Mount/Desk Top								
Solid	1.75 (45)	8 (203)	1	HM736-ND	62.45	57.65	49.96	RMCS19018BK1
	1.75 (45)	13 (330)	1	HM737-ND	73.47	67.81	58.77	RMCS190113BK1
	3.50 (89)	8 (203)	2	HM738-ND	69.80	64.44	55.85	RMCS19038BK1
	3.50 (89)	13 (330)	2	HM739-ND	88.17	81.39	70.54	RMCS190313BK1
	5.25 (133)	13 (330)	3	HM740-ND	101.04	93.26	80.83	RMCS190513BK1
	7.00 (178)	13 (330)	4	HM741-ND	115.72	106.82	92.58	RMCS190713BK1
	8.75 (222)	13 (330)	5	HM742-ND	139.60	128.86	111.68	RMCS190813BK1
	10.50 (267)	13 (330)	6	HM743-ND	154.30	142.44	123.44	RMCS191013BK1
	10.50 (267)	15 (381)	6	HM744-ND	152.45	140.72	121.97	RMCS191015BK1
Vented	1.75 (45)	8 (203)	1	HM745-ND	68.70	63.42	54.96	RMCV19018BK1
	1.75 (45)	13 (330)	1	HM746-ND	80.81	74.60	64.66	RMCV190113BK1
	3.50 (89)	8 (203)	2	HM747-ND	76.77	70.86	61.42	RMCV19038BK1
	3.50 (89)	13 (330)	2	HM748-ND	96.98	89.52	77.59	RMCV190313BK1
	5.25 (133)	13 (330)	3	HM749-ND	111.14	102.59	88.91	RMCV190513BK1
	7.00 (178)	13 (330)	4	HM750-ND	127.30	117.52	101.84	RMCV190713BK1
	8.75 (222)	13 (330)	5	HM751-ND	153.57	141.76	122.85	RMCV190813BK1
	10.50 (267)	13 (330)	6	HM752-ND	169.72	156.67	135.77	RMCV191013BK1
	10.50 (267)	15 (381)	6	HM753-ND	167.70	154.81	134.17	RMCV19015BK1

Description	Qty. Per Pack	Digi-Key	Price Each			Hammond
		Part No.	1	3	5	Part No.
19” Rack Mount Hardware						
10-32 x 0.75” Phillips oval head screw/plastic washer	4	HM826-ND	3.24	2.99	2.59	1421A
Nickel plated 10-32 x 0.625” countersunk Phillips head	100	HM827-ND	18.70	17.26	14.97	1421A100B
Black plastic cup washer for countersunk 10-32 screws	100	HM828-ND	34.02	31.40	27.21	1421A100W
Nickel plated cup washer for countersunk 10-32 screws	100	HM829-ND	13.80	12.74	11.05	1421E100W
10-32 clip nuts for all panel rails	25	HM830-ND	14.82	13.69	11.85	1421N25

Color	Dimensions - Inch (mm)	Panel Units	Digi-Key	Price Each			Hammond
	Panel H		Part No.	1	3	5	Part No.
Fig. 4 - PBPA Aluminum 19” Rack Panels							
Black	1.75 (45)	1	HM772-ND	9.27	8.56	7.41	PBPA19001BK2
	3.50 (89)	2	HM773-ND	13.67	12.61	10.93	PBPA19003BK2
	5.25 (133)	3	HM774-ND	19.50	18.01	15.60	PBPA19005BK2
	7.00 (178)	4	HM775-ND	24.37	22.50	19.49	PBPA19007BK2
	8.75 (222)	5	HM776-ND	28.83	26.62	23.07	PBPA19008BK2
	10.50 (267)	6	HM777-ND	32.50	30.00	26.00	PBPA19010BK2
	12.25 (311)	7	HM778-ND	38.97	35.98	31.17	PBPA19012BK2
	14.00 (356)	8	HM779-ND	43.85	40.48	35.09	PBPA19014BK2
	15.75 (400)	9	HM780-ND	47.11	43.50	37.70	PBPA19015BK2
	17.50 (445)	10	HM781-ND	53.65	49.53	42.93	PBPA19017BK2
	19.25 (489)	11	HM782-ND	62.15	57.38	49.73	PBPA19019BK2
	21.00 (533)	12	HM783-ND	66.60	61.48	53.28	PBPA19021BK2
	22.75 (578)	13	HM784-ND	70.67	65.23	56.54	PBPA19022BK2
	24.50 (622)	14	HM785-ND	77.18	71.24	61.75	PBPA19024BK2
	26.25 (667)	15	HM786-ND	82.87	76.49	66.30	PBPA19026BK2
	28.00 (711)	16	HM787-ND	88.55	81.74	70.84	PBPA19028BK2
	29.75 (756)	17	HM788-ND	92.62	85.49	74.10	PBPA19029BK2
	31.00 (787)	18	HM789-ND	95.07	87.76	76.06	PBPA19031BK2
Gray/ Beige	1.75 (45)	1	HM790-ND	9.27	8.56	7.41	PBPA19001CG2
	3.50 (89)	2	HM791-ND	13.67	12.61	10.93	PBPA19003CG2
	5.25 (133)	3	HM792-ND	19.50	18.01	15.60	PBPA19005CG2
	7.00 (178)	4	HM793-ND	24.37	22.50	19.49	PBPA19007CG2
	8.75 (222)	5	HM794-ND	28.83	26.62	23.07	PBPA19008CG2
	10.50 (267)	6	HM795-ND	32.50	30.00	26.00	PBPA19010CG2
	12.25 (311)	7	HM796-ND	38.97	35.98	31.17	PBPA19012CG2
	14.00 (356)	8	HM797-ND	43.85	40.48	35.09	PBPA19014CG2
	15.75 (400)	9	HM798-ND	47.11	43.50	37.70	PBPA19015CG2
	17.50 (445)	10	HM799-ND	53.65	49.53	42.93	PBPA19017CG2
	19.25 (489)	11	HM800-ND	62.15	57.38	49.73	PBPA19019CG2
	21.00 (533)	12	HM801-ND	66.60	61.48	53.28	PBPA19021CG2
	22.75 (578)	13	HM802-ND	70.67	65.23	56.54	PBPA19022CG2
	24.50 (622)	14	HM803-ND	77.18	71.24	61.75	PBPA19024CG2
	26.25 (667)	15	HM804-ND	82.87	76.49	66.30	PBPA19026CG2
	28.00 (711)	16	HM805-ND	88.55	81.74	70.84	PBPA19028CG2
	29.75 (756)	17	HM806-ND	92.62	85.49	74.10	PBPA19029CG2
	31.50 (787)	18	HM807-ND	95.07	87.76	76.06	PBPA19031CG2
Unfin- ished	1.75 (45)	1	HM808-ND	9.27	8.56	7.41	PBPA19001UNF
	3.50 (89)	2	HM809-ND	13.67	12.61	10.93	PBPA19003UNF
	5.25 (133)	3	HM810-ND	19.50	18.01	15.60	PBPA19005UNF
	7.00 (178)	4	HM811-ND	24.37	22.50	19.49	PBPA19007UNF
	8.75 (222)	5	HM812-ND	28.83	26.62	23.07	PBPA19008UNF
	10.50 (267)	6	HM813-ND	32.50	30.00	26.00	PBPA19010UNF
	12.25 (311)	7	HM814-ND	38.97	35.98	31.17	PBPA19012UNF
	14.00 (356)	8	HM815-ND	43.85	40.48	35.09	PBPA19014UNF
	15.75 (400)	9	HM816-ND	47.11	43.50	37.70	PBPA19015UNF
	17.50 (445)	10	HM817-ND	53.65	49.53	42.93	PBPA19017UNF
	19.25 (489)	11	HM818-ND	62.15	57.38	49.73	PBPA19019UNF
	21.00 (533)	12	HM819-ND	66.60	61.48	53.28	PBPA19021UNF
	22.75 (578)	13	HM820-ND	70.67	65.23	56.54	PBPA19022UNF
	24.50 (622)	14	HM821-ND	77.18	71.24	61.75	PBPA19024UNF
	26.25 (667)	15	HM822-ND	82.87	76.49	66.30	PBPA19026UNF
	28.00 (711)	16	HM823-ND	88.55	81.74	70.84	PBPA19028UNF
	29.75 (756)	17	HM824-ND	92.62	85.49	74.10	PBPA19029UNF
	31.50 (787)	18	HM825-ND	95.07	87.76	76.06	PBPA19031UNF

Plastic and Aluminum Enclosures

Fig. 1 – Plastic Instrument Enclosures - 1591 Series

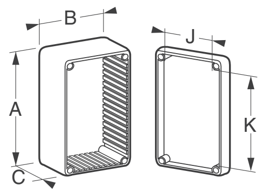

Lid adds 4mm to height of box. For dimensions A, B and C, see charts below.

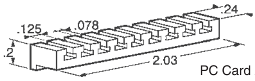

PC Card Adapter

Part No.	Dimension Inch (mm) J	K
1591L	1.4 (36)	2.5 (64)
1591A	1.1 (28)	3.1 (79)
1591B	1.6 (41)	3.5 (89)
1591C	1.7 (43)	3.9 (99)
1591D	2.3 (58)	5.0 (127)
1591E	3.5 (89)	6.6 (168)
1591G	2.8 (71)	3.9 (99)
1591H	1.9 (48)	5.6 (142)
1591M	1.3 (33)	2.5 (64)
1591S	2.4 (61)	3.5 (89)
1591T	2.3 (58)	3.9 (99)
1591U	3.9 (99)	3.9 (99)
1591V	3.9 (99)	3.9 (99)

Available in both High Impact Polystyrene (black) and in Flame Retardant ABS (black, blue, translucent blue, or light gray). Economical styrene versions come with four self-tapping #4 x 1/2” (12.7mm) Phillips screws countersunk into the lid. ABS versions carry a UL flammability rating of 94V-0 at 1.47mm thickness and a continuous use temperature rating of 60°C. ABS versions come with M3 x .5 x 10mm Phillips head screws, countersunk lid and integral tapped brass bushings. Both versions have integral card guides to accept .062” (1.57mm) PC cards.

Fig. 2 – Diecast Aluminum Enclosures - 1590 Series

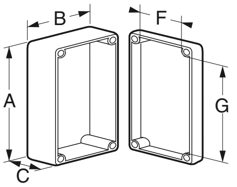

Lid adds 4mm to height of box (except for 1500Z series). For dimensions A, B, and C, see charts below.

Lid Height for 1590 Heavy Duty Watertight Diecast Aluminum Alloy Enclosure	
Part No.	Dimension Inch (mm)
1590Z100	0.5 (13)
1590Z110	0.5 (13)
1590Z120	0.6 (15)
1590Z130	0.5 (13)
1590Z135	0.8 (20)
1590Z150	0.8 (20)
1590Z160	0.8 (20)

Part No.	Dimension - Inch (mm) F	G
1590A	0.9 (23)	3.0 (76)
1590B	1.7 (43)	3.8 (97)
1590BB	3.1 (77)	4.0 (102)
1590C	3.1 (77)	4.1 (104)
1590D	4.1 (104)	6.8 (173)
1590DD	4.1 (104)	6.8 (173)
1590E	4.1 (104)	6.8 (173)
1590F	6.8 (173)	6.8 (173)
1590H	0.9 (23)	1.4 (36)
1590J	3.1 (79)	5.1 (130)
1590K	4.3 (109)	4.3 (109)
1590LB	1.4 (36)	1.4 (36)
1590P1	2.9 (74)	5.4 (137)
1590S	2.6 (66)	3.7 (94)
1590T	2.5 (64)	4.1 (104)
1590U	4.1 (104)	4.1 (104)
1590V	4.1 (104)	4.1 (104)
1590G	1.3 (33)	3.3 (84)
1590N1	1.9 (48)	4.1(104)
1590R1	4.0 (102)	6.9 (175)

1590 Series: Drilled and tapped with lid and 6-32 x 1/2” (12.7mm) countersunk Phillips screws. Choice of standard, flanged or watertight lid. Interlocking flanged lid provides complete RF shielding. Watertight lid has a clear bead of rubberlike silicon around the perimeter to provide protection against dust and water.

1590Z Series: Watertight, heavy duty - thick wall. Two piece “tongue and groove” construction with a neoprene gasket provides protection against dust and water. Four recessed stainless steel machine screws and individual neoprene “O” rings secure lid. Optional M4 x 6mm copper grounding screws with designated enclosures. Designed to meet IP65.

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hammond Part No.
Fig. 1 - 1591 Economy Styrene Plastic Enclosures — RoHS Compliant								
Black	3.3 (85)	2.2 (56)	1.4 (35)	HM100-ND	4.04	3.37	3.11	1591LSBK
	3.3 (85)	2.2 (56)	0.8 (21)	HM361-ND	3.40	2.84	2.63	1591MSBK
	3.9 (100)	2.0 (50)	0.8 (21)	HM102-ND	3.76	3.14	2.90	1591ASBK
	4.3 (110)	3.2 (82)	1.6 (41)	HM109-ND	5.50	4.59	4.24	1591SSBK
	4.4 (112)	2.4 (62)	1.1 (27)	HM103-ND	4.08	3.41	3.15	1591BSBK
	4.7 (120)	2.6 (65)	1.4 (36)	HM104-ND	4.30	3.58	3.31	1591CSBK
	4.7 (120)	3.2 (80)	2.2 (56)	HM110-ND	6.04	5.04	4.65	1591TSBK
	4.7 (120)	4.7 (120)	2.2 (56)	HM111-ND	6.48	5.41	5.00	1591USBK
	4.7 (120)	4.7 (120)	3.5 (90)	HM112-ND	7.76	6.48	5.98	1591VSBK
	4.8 (121)	3.7 (94)	1.2 (30)	HM107-ND	5.12	4.27	3.94	1591GSBK
	5.9 (150)	3.2 (80)	1.8 (46)	HM105-ND	6.42	5.36	4.94	1591DSBK
	6.5 (165)	2.8 (71)	1.0 (25)	HM108-ND	5.08	4.23	3.92	1591HSBK
	7.5 (191)	4.3 (110)	2.2 (56)	HM106-ND	7.66	6.39	5.89	1591ESBK
Fig. 1 - 1591 ABS Flame Retardant Plastic Enclosures — RoHS Compliant								
Black	3.3 (85)	2.2 (56)	1.4 (35)	HM113-ND	6.46	5.39	4.97	1591LBK
	3.3 (85)	2.2 (56)	0.8 (21)	HM362-ND	5.12	4.27	3.94	1591MBK
	3.3 (85)	2.2 (56)	1.4 (35)	HM847-NDΔ	6.80	5.67	5.24	1591LFLBK
	3.3 (85)	2.2 (56)	0.8 (21)	HM848-NDΔ	5.38	4.48	4.14	1591MFLBK
	3.9 (100)	2.0 (50)	0.8 (21)	HM114-ND	6.02	5.02	4.64	1591ABK
	3.9 (100)	2.0 (50)	0.8 (21)	HM858-NDΔ	6.32	5.27	4.87	1591AFLBK
	4.3 (110)	3.2 (82)	1.6 (41)	HM849-NDΔ	9.18	7.66	7.07	1591SFLBK
	4.3 (110)	3.2 (82)	1.6 (41)	HM121-ND	8.76	7.31	6.74	1591SBK
	4.4 (112)	2.4 (62)	1.1 (27)	HM850-NDΔ	6.84	5.71	5.27	1591BFLBK
	4.4 (112)	2.4 (62)	1.1 (27)	HM115-ND	6.50	5.42	5.00	1591BBK
	4.7 (120)	4.7 (120)	3.5 (90)	HM854-NDΔ	13.02	10.86	10.02	1591VFLBK
	4.7 (120)	4.7 (120)	2.2 (56)	HM853-NDΔ	10.88	9.08	8.38	1591UFLBK
	4.7 (120)	2.6 (65)	1.4 (36)	HM851-NDΔ	7.26	6.06	5.59	1591CFLBK
	4.7 (120)	3.2 (80)	2.2 (56)	HM852-NDΔ	10.16	8.47	7.82	1591TFLBK
	4.8 (121)	3.7 (94)	1.2 (30)	HM855-NDΔ	8.60	7.17	6.61	1591GFLBK
	4.7 (120)	2.6 (65)	1.4 (36)	HM116-ND	6.94	5.78	5.35	1591CBK
	4.7 (120)	3.2 (80)	2.2 (56)	HM122-ND	9.68	8.08	7.45	1591TBK
	4.7 (120)	4.7 (120)	2.2 (56)	HM123-ND	10.36	8.64	7.98	1591UBK
	4.7 (120)	4.7 (120)	3.5 (90)	HM124-ND	12.40	10.33	9.54	1591VBK
	4.8 (121)	3.7 (94)	1.2 (30)	HM119-ND	8.20	6.84	6.31	1591GBK
	5.9 (150)	3.2 (80)	1.8 (46)	HM856-NDΔ	10.74	8.96	8.26	1591DFLBK
	5.9 (150)	3.2 (80)	1.8 (46)	HM117-ND	10.24	8.54	7.88	1591DBK
	6.5 (165)	2.8 (71)	1.0 (25)	HM120-ND	8.14	6.78	6.26	1591HBK
	6.5 (165)	2.8 (71)	1.0 (25)	HM859-NDΔ	8.54	7.13	6.57	1591HFLBK
	7.5 (191)	4.3 (110)	2.2 (56)	HM857-NDΔ	12.19	10.45	9.65	1591EFLBK
	7.5 (191)	4.3 (110)	2.2 (56)	HM118-ND	12.28	10.24	9.45	1591EBK
Blue	3.3 (85)	2.2 (56)	1.4 (35)	HM125-ND	6.46	5.66	5.23	1591LBU
	3.3 (85)	2.2 (56)	0.8 (21)	HM363-ND	5.12	4.27	3.94	1591MBU
	3.9 (100)	2.0 (50)	0.8 (21)	HM126-ND	6.02	5.02	4.64	1591ABU
	4.3 (110)	3.2 (82)	1.6 (41)	HM134-ND	8.76	7.31	6.74	1591SBU
	4.4 (112)	2.4 (62)	1.1 (27)	HM127-ND	6.50	5.42	5.00	1591BBU
	4.7 (120)	2.6 (65)	1.4 (36)	HM128-ND	6.94	5.78	5.35	1591CBU
	4.7 (120)	3.2 (80)	2.2 (56)	HM135-ND	9.68	8.08	7.45	1591TBU
	4.7 (120)	4.7 (120)	2.2 (56)	HM136-ND	10.36	8.64	7.98	1591UBU
	4.7 (120)	4.7 (120)	3.5 (90)	HM137-ND	12.40	10.33	9.54	1591VBU
	4.8 (121)	3.7 (94)	1.2 (30)	HM132-ND	8.20	6.84	6.31	1591GBU
	5.9 (150)	3.2 (80)	1.8 (46)	HM129-ND	10.24	8.54	7.88	1591DBU
	6.5 (165)	2.8 (71)	1.0 (25)	HM133-ND	8.14	6.78	6.26	1591HBU
	7.5 (191)	4.3 (110)	2.2 (56)	HM131-ND	12.28	10.24	9.45	1591EBU
Light Gray	3.3 (85)	2.2 (56)	1.4 (35)	HM138-ND	6.46	5.39	4.97	1591LGY
	3.3 (85)	2.2 (56)	0.8 (21)	HM364-ND	5.12	4.27	3.94	1591MGY
	3.9 (100)	2.0 (50)	0.8 (21)	HM139-ND	6.02	5.02	4.64	1591AGY
	4.3 (110)	3.2 (82)	1.6 (41)	HM146-ND	8.76	7.31	6.74	1591SGY
	4.4 (112)	2.4 (62)	1.1 (27)	HM140-ND	6.50	5.42	5.00	1591BGY
	4.7 (120)	2.6 (65)	1.4 (36)	HM141-ND	6.94	5.78	5.35	1591CGY
	4.7 (120)	3.2 (80)	2.2 (56)	HM147-ND	9.68	8.08	7.45	1591TGY
	4.7 (120)	4.7 (120)	2.2 (56)	HM148-ND	10.36	8.64	7.98	1591UGY
	4.7 (120)	4.7 (120)	3.5 (90)	HM149-ND	12.40	10.33	9.54	1591VGY
	4.8 (121)	3.7 (94)	1.2 (30)	HM144-ND	8.20	6.84	6.31	1591GGY
	5.9 (150)	3.2 (80)	1.8 (46)	HM142-ND	10.24	8.54	7.88	1591DGY
	6.5 (165)	2.8 (71)	1.0 (25)	HM145-ND	8.14	6.78	6.26	1591HGY
	7.5 (191)	4.3 (110)	2.2 (56)	HM143-ND	12.28	10.24	9.45	1591EGY
Fig. 1 - 1591 Translucent Polycarbonate Enclosures								
Ice Blue	3.9 (100)	2.0 (50)	0.8 (21)	HM878-ND◆	7.22	6.02	5.56	1591ATBU
Ice Blue	4.4 (112)	2.4 (62)	1.1 (27)	HM876-ND◆	7.84	6.53	6.03	1591BTBU
	4.7 (120)	2.6 (65)	1.4 (36)	HM877-ND◆	8.34	6.95	6.42	1591CTBU
	5.9 (150)	3.2 (80)	1.8 (46)†	HM989-ND	12.31	10.26	9.47	1591DTBU
	7.5 (191)	4.3 (110)	2.2 (57)†	HM985-ND	14.73	12.28	11.34	1591ETBU
Red	3.9 (100)	2.0 (50)	0.8 (21)†	HM986-ND	7.21	6.01	5.55	1591ATRD
	4.4 (112)	2.4 (62)	1.1 (27)†	HM987-ND	7.84	6.54	6.03	1591BTRD
	4.7 (120)	2.6 (65)	1.4 (36)†	HM988-ND	8.35	6.96	6.43	1591CTRD
	5.9 (150)	3.2 (80)	1.8 (46)†	HM990-ND	12.31	10.26	9.47	1591DTRD
	7.5 (191)	4.3 (110)	2.2 (57)†	HM991-ND	14.73	12.28	11.34	1591ETRD
Clear	3.9 (100)	2.0 (50)	0.8 (21)†	HM957-ND◆	7.21	6.01	5.55	1591ATCL
	4.4 (112)	2.4 (62)	1.1 (27)†	HM958-ND◆	7.84	6.54	6.03	1591BTCL
	4.7 (120)	2.6 (65)	1.4 (36)†	HM959-ND◆	8.35	6.96	6.43	1591CTCL
	5.9 (150)	3.2 (80)	1.8 (46)†	HM960-ND◆	12.31	10.26	9.47	1591DTCL
	7.5 (191)	4.3 (110)	2.2 (57)†	HM961-ND◆	14.73	12.28	11.34	1591ETCL
Fig. 1 - PC Card Adapter — RoHS Compliant								
PC Card Adapter for 1591 Boxes				HM204-ND	2.67	2.27	2.10	1591Z6
Fig. 2 - 1590 Diecast Aluminum Alloy Enclosures — RoHS Compliant								
Un-painted	1.97 (50)	1.97 (50)	0.83 (21)†	HM948-ND	7.14	5.95	5.49	1590LLB
	2.0 (51)	2.0 (51)	1.1 (28)	HM157-ND	7.58	6.32	5.83	1590LB
	2.1 (53)	1.5 (38)	1.1 (28)	HM365-ND	6.52	5.43	5.02	1590H
	3.6 (91)	1.5 (38)	1.1 (28)	HM150-ND	7.36	6.14	5.67	1590A
	3.62 (92)	3.62 (92)	1.5 (38)†	HM955-ND	10.20	8.50	7.85	1590Y
	3.9 (99)	2.0 (51)	0.8 (20)	HM841-ND	7.88	6.57	6.07	1590G
	4.4 (112)	3.2 (81)	1.6 (41)	HM158-ND	11.10	9.26	8.54	1590S
	4.4 (112)	2.3 (58)	1.1 (28)	HM151-ND	8.40	7.01	6.47	1590B
	4.7 (119)	3.7 (94)	1.2 (30)	HM152-ND	10.94	9.12	8.42	1590BB
	4.7 (119)	3.7 (94)	2.1 (53)	HM153-ND	12.30	10.25	9.47	1590C
	4.7 (120)	4.7 (120)	1.1 (28)†	HM949-ND	12.75	10.63	9.11	1590Q
	4.7 (119)	4.7 (119)	2.2 (56)	HM160-ND	16.80	14.00	12.93	1590U
	4.7 (119)	4.7 (119)	3.5 (89)	HM161-ND	23.12	19.27	17.79	1590V
	4.7 (119)	3.1 (79)	2.2 (56)	HM159-ND	11.44	9.54	8.80	1590T
	4.8 (122)	2.6 (66)	1.4 (36)	HM842-ND	11.46	9.56	8.82	1590N1
	4.9 (124)	4.9 (124)	3.0 (76)	HM367-ND	21.02	17.52	16.18	1590K
	4.92 (125)	4.92 (125)	2.1 (53)†	HM947-ND	19.38	16.15	13.84	1590KK
	5.7 (145)	3.7 (94)	1.8 (45)	HM366-ND	12.92	10.77	9.94	1590J
	6.0 (152)	3.2 (81)	1.8 (45)	HM348-ND	15.02	12.52	11.56	1590P1
	7.4 (188)	4.7 (119)	2.1 (53)	HM154-ND	20.14	16.79	15.49	1590D
	7.4 (188)	4.7 (119)	3.1 (79)	HM155-ND	21.53	17.96	16.57	1590E
	7.4 (188)	7.4 (188)	2.5 (64)	HM156-ND	28.94	24.12	22.27	1590F
	7.4 (188)	4.7 (119)	1.3 (33)	HM347-ND	17.70	14.76	13.92	1590DD
	7.6 (193)	4.4 (112)	2.2 (56)	HM843-ND	24.10	20.08	18.54	1590R1
Fig. 2 - 1590 Flanged Lid Diecast Aluminum Alloy Enclosures — RoHS Compliant								
Un-painted	2.0 (51)	2.0 (51)	1.1 (28)	HM570-ND	8.34	6.96	6.42	1590LBFL
	3.7 (94)	1.5 (38)	1.1 (28)	HM571-ND	8.10	6.76	6.24	1590AFL
	3.9 (99)	2.0 (51)	0.8 (20)	HM879-ND	8.68	7.23	6.68	1590GFL
	4.4 (112)	3.2 (81)	1.6 (41)	HM575-ND	12.20	10.17	9.39	1590SFL
	4.4 (112)	2.3 (58)	1.1 (28)	HM572-ND	9.24	7.70	7.11	1590BFL
	4.7 (120)	4.7 (120)	1.1 (28)†	HM950-ND	13.87	11.56	9.91	1590QFL
	4.7 (119)	4.7 (119)	2.2 (56)	HM580-ND	18.48	15.40	14.22	1590UFL
	4.7 (119)	4.7 (119)	3.5 (89)	HM583-ND	25.42	21.19	19.56	1590VFL
	4.7 (119)	3.7 (94)	2.1 (53)	HM578-ND	13.52	11.27	10.40	1590CFL
	4.7 (119)	3.7 (94)	1.2 (30)	HM573-ND	12.02	10.02	9.25	1590BBFL
	4.7 (119)	3.1 (79)	2.2 (56)	HM579-ND	12.58	10.48	9.68	1590TFL
	4.8 (122)	2.6 (66)	1.4 (36)	HM881-ND	11.66	9.72	8.97	1590N1FL
	6.0 (152)	3.2 (81)	1.8 (45)	HM576-ND	16.52	13.77	12.71	1590P1FL
	7.4 (188)	4.7 (119)	2.1 (53)	HM577-ND	22.14	18.45	17.03	1590DFL
	7.4 (188)	7.4 (188)	2.5 (64)	HM581-ND	31.84	26.54	24.50	1590FFL
	7.4 (188)	4.7 (119)	3.1 (79)	HM582-ND	23.68	19.74	18.22	1590EFL
	7.4 (188)	4.7 (119)	1.3 (33)	HM574-ND	19.48	16.24	14.99	1590DDFL
	7.6 (193)	4.4 (112)	2.2 (56)	HM880-ND	26.52	22.11	20.40	1590R1FL
Fig. 2 - 1590 Watertight Diecast Aluminum Alloy Enclosures — RoHS Compliant								
Un-painted	2.0 (51)	2.0 (51)	1.1 (28)	HM584-ND	8.30	6.92	6.39	1590WLB
	2.1 (53)	1.5 (38)	1.1 (28)	HM835-ND	7.28	6.07	5.60	1590WH
	3.6 (91)	1.5 (38)	1.1 (28)	HM585-ND	8.48	7.07	6.53	1590WA
	3.9 (99)	2.0 (51)	0.8 (20)	HM837-ND	7.88	6.57	6.07	1590WG

◆ ***RoHS Compliant*** * With mounting shelf ‡ With lid ground screw Δ Flanged Lid
† Dimension “C” does not include lid height § Battery Compartment

(Continued)

Fig. 3 – Plastic Instrument Cases - 1598 Series

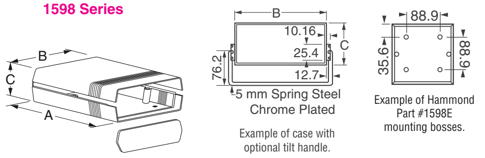

5 mm Spring Steel Chrome Plated

Example of case with optional tilt handle.

Example of Hammond Part #1598E mounting bosses.

Available in both Flame Retardant ABS (black or light gray) and High Impact Polystyrene (light gray). Both versions have a matte textured finish, .064” (1.63mm) thick brushed aluminum front and rear panels, integral horizontal PC board mounts on Eurocard centers, front and rear vertical PC board slots. Both versions accept optional tilt handles. ABS versions carry a UL flammability rating of 94V-0 and are secured with M3 x .5 x 10mm Phillips head screws into integral brass bushings. Styrene versions are secured with #4 x 5/8” (15.9mm) self-tapping screws.

Fig. 4 – Plastic Hand Held Cases - 1599 Series

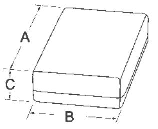

Available in both High Impact Polystyrene (light gray) and Flame Retardant ABS (black or light gray). Both versions have these features: attractively styled and ergonomically designed for use as a hand held enclosure; ends sized for infra-red applications; extra deep top and ultra shallow base; two piece lap joint construction; recessed top area ideal for membrane display; internal universal battery compartment; user friendly 10mm x 10mm reference grid is molded into the top interior; six PC board mounting bosses molded into both the top and the base; vertical mounting slots molded into the top for PC boards or optional dividers. ABS versions carry UL flammability rating of 94V-0 and are secured with integral tapped brass bushings. Styrene versions are secured with self-tapping screws.

Fig. 5 – Plastic Hand Held Instrument Boxes -1593 Series

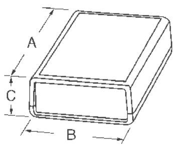

Electronic instrument enclosures. Two-piece lap joint construction. ABS plastic. Unit is secured with self-tapping screws.

Fig. 6 – Miniature General Purpose Enclosures - 1551 Series

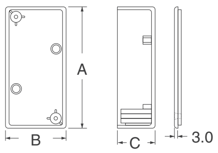

Two piece lap joint construction. Two Piece standoffs molded into interior. Designed to meet IP54.

Fig. 7 – Plastic Instrument Boxes - 1594 Series

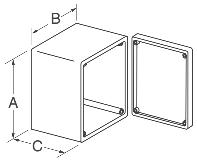

Cover adds 12mm to height

Available in both High Impact Polystyrene (light gray) and Flame Retardant ABS (black or light gray). Both versions feature lap joint construction, interlocking flange on lid, and a rugged and robust design.

Fig. 8 – Plastic Instrument Consoles - 1595 Series

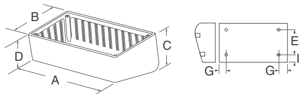

Part No.	Dimensions D	E	G	I
1595C	39.6	62.2	21.8	10.2
1595E	51.6	85.1	21.8	10.2

Aluminum lid and rubber feet included.

For dimensions A, B and C, see charts below.

Available in Flame Retardant ABS (black or light gray) which meets UL 94V-0 flammability tests. Unique sloped front design comes with 0.04” (1.02mm) thick brushed aluminum front panel, four self-adhesive rubber feet, and four M3 x .5 x 10mm machine screws threaded into integral brass bushings. Integral card guides accept .062” (1.57mm) PC boards. Base has four internal 0.20” (5.08mm) stand-off bosses.

Color	Dimensions - Inch (mm)			Digi-Key	Price Each			Hammond
	A	B	C	Part No.	1	10	100	Part No.
Un-painted	1.97 (50)	1.97 (50)	0.83 (21)†	HM952-ND	7.65	6.38	5.88	1590WLLB
	3.62 (92)	3.62 (92)	1.5 (38)†	HM954-ND	11.83	9.86	9.10	1590WY
	4.4 (112)	3.2 (81)	1.6 (41)	HM589-ND	12.28	10.23	9.45	1590WS
	4.4 (112)	2.3 (58)	1.1 (28)	HM586-ND	9.62	8.02	7.40	1590WB
	4.7 (119)	3.7 (94)	1.2 (30)	HM587-ND	12.18	10.15	9.37	1590WBB
	4.7 (120)	4.7 (120)	1.1 (28)†	HM953-ND	13.87	11.56	10.67	1590WQ
	4.7 (119)	4.7 (119)	2.2 (56)	HM594-ND	18.28	15.23	14.06	1590WU
	4.7 (119)	4.7 (119)	3.5 (89)	HM597-ND	24.56	20.47	18.89	1590WV
	4.7 (119)	3.7 (94)	2.1 (53)	HM592-ND	13.46	11.22	10.35	1590WC
	4.7 (119)	3.1 (79)	2.2 (56)	HM593-ND	12.62	10.52	9.71	1590WT
	4.8 (122)	2.6 (66)	1.4 (36)	HM840-ND	13.54	11.29	10.43	1590WN1
	4.9 (124)	4.9 (124)	3.0 (76)	HM838-ND	22.50	18.75	17.31	1590WK
	4.92 (125)	4.92 (125)	2.1 (53)†	HM951-ND	21.42	17.85	16.48	1590WKK
	5.7 (145)	3.7 (94)	1.8 (45)	HM839-ND	14.14	11.79	10.88	1590WJ
	6.0 (152)	3.2 (81)	1.8 (45)	HM590-ND	16.54	13.79	12.73	1590WP1
	7.4 (188)	4.7 (119)	2.1 (53)	HM591-ND	21.78	18.15	16.76	1590WD
	7.4 (188)	7.4 (188)	2.5 (64)	HM595-ND	31.20	26.00	24.00	1590WF
	7.4 (188)	4.7 (119)	3.1 (79)	HM596-ND	23.20	19.34	17.85	1590WE
	7.4 (188)	4.7 (119)	1.3 (33)	HM588-ND	19.40	16.17	14.93	1590WDD
	7.6 (193)	4.4 (112)	2.2 (56)	HM833-ND	26.52	22.11	20.40	1590WR1
Fig. 2 - 1590Z Heavy Duty Watertight Diecast Aluminum Alloy Enclosures — RoHS Compliant								
Un-painted	2.0 (50)	1.8 (46)	1.0 (25)	HM834-ND	10.48	8.87	8.24	1590Z060
	2.5 (64)	2.3 (58)	1.0 (25)	HM836-ND	14.18	12.00	11.15	1590Z061
	3.0 (76)	3.1 (79)	1.6 (41)†	HM598-ND*	20.71	17.53	16.28	1590Z100
	2.9 (75)	3.1 (80)	1.6 (41)†	HM599-ND	20.71	17.53	16.28	1590Z110
	3.9 (99)	2.5 (64)	1.0 (25)	HM831-ND	16.74	14.18	13.16	1590Z062
	4.8 (121)	4.7 (120)	2.4 (62)	HM845-ND	45.58	38.57	35.82	1590Z119
	4.9 (124)	3.2 (81)	1.7 (43)†	HM600-ND*	25.11	21.25	19.74	1590Z120
	5.9 (150)	2.5 (64)	1.0 (25)	HM832-ND	24.41	20.67	19.19	1590Z063
	6.3 (160)	6.3 (160)	2.8 (71)†	HM604-ND*‡	60.45	51.16	47.51	1590Z160
	6.9 (175)	3.2 (81)	1.6 (41)†	HM601-ND	29.74	25.18	23.38	1590Z130
	6.9 (175)	3.2 (81)	1.6 (41)†	HM602-ND‡	30.22	25.57	23.75	1590Z135
	8.7 (221)	4.8 (120)	2.4 (61)†	HM603-ND*	54.66	46.26	42.95	1590Z150
	7.9 (201)	9.1 (231)	3.6 (91)	HM846-ND	132.53	112.14	104.13	1590Z231
	10.2 (259)	6.3 (160)	2.8 (71)	HM844-ND	82.07	69.45	64.49	1590Z162
	14.17 (360)	6.3 (160)	2.76 (70)†	HM956-ND*	121.66	102.95	95.59	1590Z166
Fig. 3 - 1598 ABS Flame Retardant 2-Piece Plastic Instrument Cases								
Black	5.3 (135)	5.3 (135)	2.0 (50)	HM163-ND◆	13.02	10.86	10.02	1598BBK
	6.2 (157)	3.7 (94)	1.4 (36)	HM162-ND◆	11.86	9.89	9.13	1598ABK
	6.3 (160)	6.3 (160)	3.4 (86)	HM166-ND◆	19.56	16.31	15.05	1598EBK
	7.1 (180)	6.1 (155)	1.4 (36)	HM368-ND◆	13.20	11.00	10.15	1598BBBK
	7.1 (180)	6.1 (155)	2.0 (50)	HM164-ND◆	16.28	13.58	12.52	1598CBK
	7.1 (180)	8.1 (206)	2.5 (64)	HM165-ND◆	19.88	16.57	15.29	1598DBK
	9.8 (249)	6.3 (160)	1.6 (41)	HM167-ND◆	20.88	17.40	16.07	1598FBK
	9.8 (249)	6.3 (160)	3.0 (76)	HM168-ND◆	24.48	20.40	18.84	1598GBK
	11.0 (279)	7.9 (201)	1.6 (41)	HM169-ND◆	25.68	21.40	19.76	1598HBK
	11.0 (279)	7.9 (201)	3.0 (76)	HM170-ND◆	31.84	26.54	24.49	1598JBK
Light Gray	5.3 (135)	5.3 (135)	2.0 (50)	HM172-ND◆	13.02	10.86	10.02	1598BGY
	6.2 (157)	3.7 (94)	1.4 (36)	HM171-ND◆	11.86	9.89	9.13	1598AGY
	7.1 (180)	6.1 (155)	1.4 (36)	HM369-ND◆	13.20	11.00	10.15	1598BBGY
	7.1 (180)	6.1 (155)	2.0 (50)	HM173-ND◆	16.28	13.58	12.52	1598CGY
	7.1 (180)	8.1 (206)	2.5 (64)	HM174-ND◆	19.88	16.57	15.29	1598DGY
	6.3 (160)	6.3 (160)	3.4 (86)	HM175-ND◆	19.56	16.31	15.05	1598EGY
	9.8 (249)	6.3 (160)	1.6 (41)	HM176-ND◆	20.88	17.40	16.07	1598FGY
	9.8 (249)	6.3 (160)	3.0 (76)	HM177-ND◆	24.48	20.40	18.84	1598GGY
	11.0 (279)	7.9 (201)	1.6 (41)	HM178-ND◆	25.68	21.40	19.76	1598HGY
	11.0 (279)	7.9 (201)	3.0 (76)	HM179-ND	31.84	26.54	24.49	1598JGY
Fig. 3 - 1598 Styrene 2-Piece Plastic Instrument Cases — RoHS Compliant								
Light Gray	5.3 (135)	5.3 (135)	2.0 (50)	HM246-ND	9.76	8.14	7.51	1598BSGY
	6.2 (157)	3.7 (94)	1.4 (36)	HM245-ND	8.72	7.27	6.71	1598ASGY
	6.3 (160)	6.3 (160)	3.4 (86)	HM249-ND	13.64	11.37	10.50	1598ESGY
	7.1 (180)	6.1 (155)	1.4 (36)	HM370-ND	10.54	8.79	8.12	1598BBSGY
	7.1 (180)	6.1 (155)	2.0 (50)	HM247-ND	11.44	9.54	8.80	1598CSGY
	7.1 (180)	8.1 (206)	2.5 (64)	HM248-ND	13.70	11.42	10.55	1598DSGY
	9.8 (249)	6.3 (160)	1.6 (41)	HM250-ND	13.36	11.14	10.29	1598FSGY
	9.8 (249)	6.3 (160)	3.0 (76)	HM251-ND	15.64	13.04	12.04	1598GSGY
Light Gray	11.0 (279)	7.9 (201)	1.6 (41)	HM252-ND	15.62	13.02	12.02	1598HSGY
	11.0 (279)	7.9 (201)	3.0 (76)	HM253-ND	18.20	15.18	14.00	1598JSGY
Chrome Plated Tilt Handles for Instrument Cases — RoHS Compliant								
Handle for 1598C, E, F, G Series				HM255-ND	13.58	11.33	10.45	1598TH1
Handle for 1598D, H, J Series				HM256-ND	13.58	11.33	10.45	1598TH2
Fig. 4 - 1599 Styrene Hand Held Cases — RoHS Compliant								
Gray	5.1 (130)	2.6 (66)	1.0 (25)	HM209-ND	5.88	4.90	4.52	1599BSGY
	6.7 (170)	3.4 (86)	1.3 (33)	HM210-ND	6.62	5.52	5.10	1599ESGY
	8.7 (221)	4.3 (109)	1.7 (43)	HM211-ND	7.60	6.34	5.85	1599HSGY
	8.7 (221)	5.5 (140)	1.2 (30)	HM873-ND	10.32	8.60	7.94	1599KSGY
Fig. 4 - 1599 ABS Hand Held Cases — RoHS Compliant								
Black	5.1 (130)	2.6 (66)	1.0 (25)	HM212-ND	7.72	6.44	5.94	1599BBK
	6.7 (170)	3.4 (86)	1.3 (33)	HM213-ND	9.40	7.84	7.24	1599EBK
	8.7 (221)	4.3 (109)	1.7 (43)	HM214-ND	11.52	9.61	8.87	1599HBK
	8.7 (221)	5.5 (140)	1.6 (41)	HM865-ND	12.34	10.29	9.50	1599KBK
Gray	5.1 (130)	2.6 (66)	1.0 (25)	HM215-ND	7.72	6.44	5.94	1599BGY
	6.7 (170)	3.4 (86)	1.3 (33)	HM216-ND	9.40	7.84	7.24	1599EGY
	8.7 (221)	4.3 (109)	1.7 (43)	HM217-ND	11.52	9.61	8.87	1599HGY
	8.7 (221)	5.5 (140)	1.6 (41)	HM866-ND	12.34	10.29	9.50	1599KGY
Fig. 4 - 1599 ABS Hand Held Cases with Battery Box — RoHS Compliant								
Black	5.1 (130)	2.6 (66)	1.0 (25)	HM351-ND	9.76	8.14	7.51	1599BBKBAT
	6.7 (170)	3.4 (86)	1.3 (33)	HM353-ND	11.60	9.67	8.93	1599EBKBAT
	8.7 (221)	4.3 (109)	1.7 (43)	HM863-ND	15.70	13.09	12.08	1599HBKBAT
	8.7 (221)	5.5 (140)	1.6 (41)	HM864-ND	17.04	14.20	13.12	1599KBKBAT
Gray	5.1 (130)	2.6 (66)	1.0 (25)	HM352-ND	9.76	8.14	7.51	1599BGYBAT
	6.7 (170)	3.4 (86)	1.3 (33)	HM354-ND	11.60	9.67	8.93	1599EGYBAT
	8.7 (221)	4.3 (109)	1.7 (43)	HM871-ND	15.70	13.09	12.08	1599HGYBAT
	8.7 (221)	5.5 (140)	1.6 (41)	HM872-ND	17.04	14.20	13.12	1599KGYBAT
Fig. 4 - 1599 Styrene Plastic Cases with Battery Box — RoHS Compliant								
Gray	5.1 (130)	2.6 (66)	1.0 (25)	HM349-ND	7.44	6.20	5.73	1599BSGYBAT
	6.7 (170)	3.4 (86)	1.3 (34)	HM350-ND	8.62	7.19	6.63	1599ESGYBAT
	8.7 (221)	4.3 (109)	1.7 (43)	HM875-ND	13.00	10.84	10.00	1599HSGYBAT
	8.7 (221)	5.5 (140)	1.6 (41)	HM874-ND	14.02	11.68	10.79	1599KSGYBAT
Fig. 5 - 1593 ABS Plastic Hand Held Boxes								
Black	2.6 (66)	2.6 (66)	1.1 (28)	HM355-ND◆	2.88	2.40	2.22	1593KBK
	2.6 (66)	2.6 (66)	1.1 (28)	HM860-ND◆	2.88	2.40	2.22	1593JBK
	3.6 (92)	2.6 (66)	1.1 (28)	HM357-ND◆§	4.12	3.44	3.18	1593PBK
	3.6 (92)	2.6 (66)	1.1 (28)	HM962-ND◆	4.12	3.45	3.17	1593LBK
	3.6 (92)	2.6 (66)	0.8 (20)	HM371-ND◆§	3.84	3.20	2.96	1593SBK
	4.3 (110)	2.9 (75)	1.0 (25)	HM963-ND◆	4.26	3.56	3.28	1593NBK
	4.4 (112)	2.6 (66)	1.1 (28)	HM359-ND◆§	4.64	3.87	3.58	1593QBK
	4.4 (112)	2.6 (66)	0.8 (20)	HM372-ND◆§	4.36	3.63	3.35	1593TBK
	4.5 (114)	1.4 (36)	1.0 (25)	HM861-ND◆	4.42	3.69	3.40	1593DBK
	5.5 (140)	2.6 (66)	1.1 (28)	HM966-ND◆	5.36	4.48	4.12	1593XBK
	5.5 (140)	2.6 (66)	1.1 (28)	HM862-ND◆§	5.36	4.47	4.12	1593YBK
Gray	2.6 (66)	2.6 (66)	1.1 (28)	HM356-ND◆	2.88	2.40	2.22	1593KGY
	2.6 (66)	2.6 (66)	1.1 (28)	HM867-ND◆	2.88	2.40	2.22	1593JGY
	3.6 (92)	2.6 (66)	1.1 (28)	HM358-ND◆§	4.12	3.44	3.18	1593PGY
	3.6 (92)	2.6 (66)	1.1 (28)	HM967-ND	4.12	3.45	3.17	1593LGY
	3.6 (92)	2.6 (66)	0.8 (20)	HM373-ND◆§	3.84	3.20	2.96	1593SGY
	4.3 (110)	2.9 (75)	1.0 (25)	HM964-ND◆	4.26	3.56	3.28	1593NGY
	4.4 (112)	2.6 (66)	1.1 (28)	HM360-ND◆§	4.64	3.87	3.58	1593QGY
	4.4 (112)	2.6 (66)	0.8 (20)	HM374-ND◆§	4.36	3.63	3.35	1593TGY
	4.5 (114)	1.4 (36)	1.0 (25)	HM868-ND◆	4.42	3.69	3.40	1593DGY
	5.5 (140)	2.6 (66)	1.1 (28)	HM870-ND◆	5.36	4.47	4.12	1593XGY
	5.5 (140)	2.6 (66)	1.1 (28)	HM869-ND◆§	5.36	4.47	4.12	1593YGY
Infrared Replacement Panels for 1593 Series — RoHS Compliant								
Replacement Panel for 1593D Series				HM887-ND	.54	.45	.42	1593DIR10
Replacement Panel for 1593J, K, P, Q, Y, X Series				HM888-ND	.62	.52	.48	1593PIR10
Replacement Panel for 1593N Series				HM965-ND	.59	.49	.46	1593NIR1O
Replacement Panel for 1593S, T Series				HM889-ND	.37	.31	.29	1593SIR10

◆ ***RoHS Compliant*** * With mounting shelf ‡ With lid ground screw Δ Flanged Lid
† Dimension “C” does not include lid height § Battery Compartment

(Continued)

Plastic and Aluminum Enclosures *(Cont.)*

Fig. 9 – **Aluminum Utility Cases - 1411 Series**

.040" (1.02mm) thick aluminum. Four self-tapping screws included. Choice of unpainted or ASA 61 gray powder paint finish (outside only).

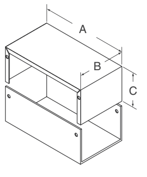

Fig. 10 – **Heavy Duty Chassis Case and Cover Plates - 1444 Series**

Cover No.	Use with Digi-Key #	Use with Hammond #
HM275-ND	HM257-ND	1444-6
HM276-ND	HM258-ND	1444-8
HM277-ND	HM259-ND	1444-9
	HM260-ND	1444-10
HM278-ND	HM261-ND	1444-12
HM279-ND	HM262-ND	1444-14
HM280-ND	HM263-ND	1444-15
	HM264-ND	1444-16
HM281-ND	HM265-ND	1444-18

Cover No.	Use with Digi-Key #	Use with Hammond #
HM282-ND	HM266-ND	1444-20
HM283-ND	HM267-ND	1444-22
	HM268-ND	1444-24
HM284-ND	HM269-ND	1444-26
	HM270-ND	1444-28
HM285-ND	HM271-ND	1444-29
HM286-ND	HM272-ND	1444-30
	HM273-ND	1444-32
	HM274-ND	1444-33

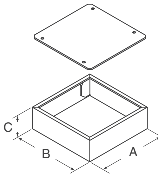

Spot welded heavy duty construction chassis. Cover holes are punched with 4 holes (hardware not provided). Natural Aluminum finish.

Cover sold separately.

Fig. 11 – **Metal Utility Cases - 1415 Series**

Sizes A to E are 20 gauge 0.036" (.91mm) thick steel. Sizes F to J are 18 gauge 0.048" (1.22mm) thick steel. Self-tapping screws included. ASA 61 gray baked enamel finish (outside only). Models A to D have 4 mounting holes. Models E to J have 6 mounting holes.

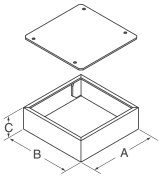

Fig. 12 – **Ventilated Low Profile Instrument Cases - 1426 Series**

20 gauge steel enclosure finished in satin off-white. 0.064" (1.63mm) thick aluminum panels front and rear. Front panel is satin black, rear panel matches case color. Includes screws and rubber feet.

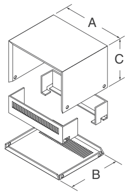

Fig. 13 – **Low Profile Instrument Cases - 1458 Series**

18 gauge steel case with black satin finish. 0.064" (1.63mm) thick aluminum panels (one satin black and one satin white for each case). Symmetrical design so either end can be front. 6-32 Phillips nickel plated screws and self-adhesive rubber feet included.

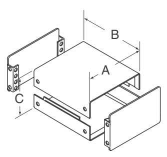

Fig. 14 – **Ventilated High Profile Instrument Cases - 1401 Series**

18 gauge steel case finished in satin off-white. 0.064" (1.63mm) thick aluminum panels, front finished in satin black; vented back finished in satin off-white. Rear panel is vented top and bottom 6-32 Phillips nickel plated screws and self-adhesive rubber feet included.

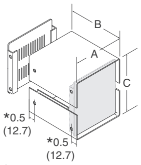

*Both end panels are recessed

Fig. 15 – **Plastic Sloping Consoles - 1599 "T" Series**

Flame Retardant ABS which meets UL94V-O flammability tests. Includes integral threaded brass inserts and machine screws providing extra strength for repeated assembly and disassembly of lid.

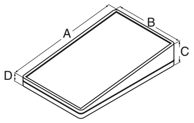

Dimensions - Inch (mm) Part No.	D
1599ETSBK	.72 (18)
1599HTSBK	.75 (19)
1599KTSBK	.67 (17)
1599KTLBK	.71 (18)
1599KTLBKBAT	.71 (18)

Color	Dimensions - Inch (mm)			Digi-Key	Price Each			Hammond
	A	B	C	Part No.	1	10	100	Part No.
Fig. 6 - 1551 ABS Plastic General Purpose Boxes — RoHS Compliant								
Black	1.38 (35)	1.38 (35)	0.59 (15)	HM910-ND	1.52	1.27	1.09	1551NBK
	1.38 (35)	1.38 (35)	0.79 (20)	HM993-ND	1.56	1.30	1.21	1551MBK
	1.58 (40)	1.58 (40)	0.59 (15)	HM912-ND	1.60	1.33	1.15	1551QBK
	1.58 (40)	1.58 (40)	0.79 (20)	HM911-ND	1.66	1.39	1.20	1551PBK
	1.97 (50)	1.38 (35)	0.59 (15)	HM907-ND	1.70	1.42	1.21	1551FBK
	1.97 (50)	1.97 (50)	0.59 (15)	HM914-ND	1.78	1.49	1.27	1551SBK
	1.97 (50)	1.97 (50)	0.79 (20)	HM913-ND	1.82	1.52	1.30	1551RBK
	2.0 (50)	1.4 (35)	0.7 (18)	HM375-ND	1.74	1.46	1.34	1551GBK
	2.36 (60)	1.38 (35)	0.59 (15)	HM908-ND	1.88	1.57	1.35	1551JBK
	3.15 (80)	1.58 (40)	0.59 (15)	HM909-ND	1.96	1.64	1.41	1551LBK
	2.4 (60)	1.4 (35)	0.7 (18)	HM376-ND	1.92	1.60	1.49	1551HBK
	3.2 (80)	1.6 (40)	0.7 (18)	HM377-ND	2.00	1.67	1.54	1551KBK
Light Gray	2.0 (50)	1.4 (35)	0.7 (18)	HM378-ND	1.74	1.46	1.34	1551GGY
	2.4 (60)	1.4 (35)	0.7 (18)	HM379-ND	1.92	1.60	1.49	1551HGY
	3.2 (80)	1.6 (40)	0.7 (18)	HM380-ND	2.00	1.67	1.54	1551KGY
Fig. 7 - 1594 Styrene Plastic Instrument Boxes — RoHS Compliant								
Light Gray	2.2 (56)	2.2 (56)	1.1 (28)	HM221-ND	4.40	3.67	3.39	1594ASGY
	3.2 (81)	2.2 (56)	1.1 (28)	HM222-ND	4.64	3.88	3.58	1594BSGY
	4.1 (105)	2.6 (66)	1.3 (33)	HM223-ND	5.06	4.23	3.89	1594CSGY
	5.2 (131)	2.6 (66)	1.7 (43)	HM224-ND	5.42	4.53	4.17	1594DSGY
	6.6 (167)	4.2 (107)	2.1 (53)	HM225-ND	7.06	5.89	5.43	1594ESGY
Fig. 7 - 1594 ABS Plastic Instrument Boxes — RoHS Compliant								
Black	2.2 (56)	2.2 (56)	1.1 (28)	HM226-ND	7.66	6.39	5.89	1594ABK
	3.2 (81)	2.2 (56)	1.1 (28)	HM227-ND	8.02	6.69	6.18	1594BBK
	4.1 (105)	2.6 (66)	1.3 (33)	HM228-ND	9.88	8.27	7.61	1594CBK
	5.2 (131)	2.6 (66)	1.7 (43)	HM229-ND	11.74	9.79	9.03	1594DBK
	6.6 (167)	4.2 (107)	2.1 (53)	HM230-ND	14.46	12.05	11.13	1594EBK
Light Gray	2.2 (56)	2.2 (56)	1.1 (28)	HM231-ND	7.66	6.39	5.89	1594AGY
	3.2 (81)	2.2 (56)	1.1 (28)	HM232-ND	8.02	6.69	6.18	1594BGY
	4.1 (105)	2.6 (66)	1.3 (33)	HM233-ND	9.88	8.24	7.61	1594CGY
	5.2 (131)	2.6 (66)	1.7 (43)	HM234-ND	11.74	9.79	9.03	1594DGY
	6.6 (167)	4.2 (107)	2.1 (53)	HM235-ND	14.46	12.05	11.13	1594EGY
Fig. 8 - 1595 ABS Plastic Instrument Consoles — RoHS Compliant								
Light Gray	6.3 (160)	3.8 (97)	2.3 (58)	HM241-ND	12.26	10.22	9.15	1595CGY
	8.5 (216)	5.1 (130)	3.0 (76)	HM242-ND	15.18	12.65	11.34	1595EGY
Black	6.3 (160)	3.8 (97)	2.3 (58)	HM243-ND	12.26	10.22	9.15	1595CBK
	8.5 (216)	5.1 (130)	3.0 (76)	HM244-ND	15.18	12.65	11.34	1595EBK
Fig. 9 - 1411 Aluminum Utility Cases — RoHS Compliant								
Light Gray	2.7 (69)	2.2 (56)	1.6 (41)	HM315-ND	5.92	4.93	4.55	1411B
	3.2 (81)	2.2 (56)	1.1 (28)	HM316-ND	5.99	5.00	4.61	1411C
	3.2 (81)	2.2 (56)	1.6 (41)	HM317-ND	6.04	5.04	4.65	1411D
	4.0 (102)	2.2 (56)	3.0 (76)	HM318-ND	6.62	5.51	5.09	1411F
	4.0 (102)	2.2 (56)	1.6 (41)	HM319-ND	6.26	5.21	4.81	1411G
	4.0 (102)	2.2 (56)	2.2 (56)	HM320-ND	6.39	5.33	4.91	1411H
	5.0 (127)	2.2 (56)	2.2 (56)	HM321-ND	7.32	6.10	5.63	1411K
	5.0 (127)	4.0 (102)	3.0 (76)	HM322-ND	9.52	7.94	7.32	1411L
	5.0 (127)	3.0 (76)	2.2 (56)	HM324-ND	7.77	6.48	5.98	1411N
	6.0 (152)	3.0 (76)	3.0 (76)	HM323-ND	10.66	8.89	8.20	1411M
	6.0 (152)	5.0 (127)	4.0 (102)	HM325-ND	13.35	11.13	10.28	1411P
	7.0 (178)	5.0 (127)	3.0 (76)	HM326-ND	13.00	10.84	10.01	1411Q
	8.0 (203)	6.0 (152)	3.5 (89)	HM327-ND	21.30	17.75	16.39	1411R
	8.0 (203)	4.0 (102)	3.0 (76)	HM328-ND	19.52	16.27	15.02	1411S
	10.0 (254)	2.2 (56)	1.6 (41)	HM329-ND	21.40	17.83	16.46	1411T
	10.0 (254)	6.0 (152)	3.5 (89)	HM330-ND	25.94	21.61	19.96	1411U
	12.0 (305)	3.0 (76)	2.2 (56)	HM331-ND	24.86	20.72	19.12	1411W
	12.0 (305)	7.0 (178)	4.0 (102)	HM332-ND	31.05	25.88	23.89	1411X
	17.0 (432)	5.0 (127)	4.0 (102)	HM333-ND	33.74	28.12	25.96	1411Z

Color	Dimensions - Inch (mm)			Digi-Key	Price Each			Hammond
	A	B	C	Part No.	1	10	100	Part No.
Un-painted	2.7 (69)	2.2 (56)	1.6 (41)	HM605-ND	3.84	3.20	2.96	1411BU
	3.2 (81)	2.2 (56)	1.1 (28)	HM606-ND	4.07	3.40	3.13	1411CU
	3.2 (81)	2.2 (56)	1.6 (41)	HM607-ND	4.40	3.67	3.39	1411DU
	4.0 (102)	2.2 (56)	3.0 (76)	HM608-ND	5.43	4.53	4.18	1411FU
	4.0 (102)	2.2 (56)	1.6 (41)	HM609-ND	4.76	3.97	3.66	1411GU
	4.0 (102)	2.2 (56)	2.2 (56)	HM610-ND	5.12	4.27	3.94	1411HU
	5.0 (127)	2.2 (56)	2.2 (56)	HM611-ND	6.34	5.28	4.88	1411KU
	5.0 (127)	4.0 (102)	3.0 (76)	HM612-ND	7.88	6.57	6.06	1411LU
	5.0 (127)	3.0 (76)	2.2 (56)	HM614-ND	6.74	5.61	5.18	1411NU
	6.0 (152)	3.0 (76)	3.0 (76)	HM613-ND	8.88	7.40	6.84	1411MU
	6.0 (152)	5.0 (127)	4 .0 (102)	HM615-ND	11.25	9.37	8.66	1411PU
	7.0 (178)	5.0 (127)	3.0 (76)	HM616-ND	10.76	8.98	8.29	1411QU
	8.0 (203)	6.0 (152)	3.5 (89)	HM617-ND	15.89	13.25	12.23	1411RU
	8.0 (203)	4.0 (102)	3.0 (76)	HM618-ND	14.20	11.84	10.93	1411SU
	10.0 (254)	2.2 (56)	1.6 (41)	HM619-ND	15.98	13.32	12.29	1411TU
	10.0 (254)	6.0 (152)	3.5 (89)	HM620-ND	19.96	16.64	15.36	1411UU
	12.0 (305)	3.0 (76)	2.2 (56)	HM621-ND	19.52	16.27	15.02	1411WU
	12.0 (305)	7.0 (178)	4.0 (102)	HM622-ND	25.28	21.07	19.45	1411XU
	17.0 (432)	5.0 (127)	4.0 (102)	HM623-ND	28.40	23.67	21.85	1411ZU
Fig. 10 - 1444 Heavy Duty Chassis Cases — RoHS Compliant								
Un-painted	4.0 (102)	4.0 (102)	2.0 (51)	HM257-ND	9.82	8.31	7.71	1444-6
	6.0 (152)	4.0 (102)	2.0 (51)	HM258-ND	10.07	8.54	7.93	1444-8
	7.0 (178)	5.0 (127)	2.0 (51)	HM261-ND	10.98	9.30	8.63	1444-12
	8.0 (203)	4.0 (102)	1.0 (25)	HM259-ND	10.49	8.88	8.24	1444-9
	8.0 (203)	4.0 (102)	2.0 (51)	HM260-ND	10.75	9.11	8.45	1444-10
	9.0 (229)	5.0 (127)	2.0 (51)	HM262-ND	13.27	11.24	10.43	1444-14
	10.0 (254)	6.0 (152)	1.0 (25)	HM263-ND	11.59	9.80	9.11	1444-15
	10.0 (254)	6.0 (152)	2.0 (51)	HM264-ND	14.39	12.18	11.31	1444-16
	12.0 (305)	8.0 (203)	2.0 (51)	HM267-ND	25.11	21.25	19.74	1444-22
	12.0 (305)	8.0 (203)	3.0 (76)	HM268-ND	25.39	21.50	19.96	1444-24
	12.0 (305)	10.0 (254)	2.0 (51)	HM271-ND	25.26	21.38	19.85	1444-29
	13.5 (343)	5.0 (127)	2.0 (51)	HM265-ND	15.23	12.89	11.97	1444-18
	16.0 (406)	8.0 (203)	2.0 (51)	HM269-ND	25.32	21.42	19.90	1444-26
	16.0 (406)	8.0 (203)	3.0 (76)	HM270-ND	30.14	25.51	23.69	1444-28
	17.0 (432)	4.0 (102)	3.0 (76)	HM266-ND	25.21	21.33	19.81	1444-20
	17.0 (432)	10.0 (254)	2.0 (51)	HM272-ND	29.28	24.78	23.02	1444-30
	17.0 (432)	10.0 (254)	3.0 (76)	HM273-ND	34.28	29.02	26.95	1444-32
	17.0 (432)	10.0 (254)	4.0 (102)	HM274-ND	49.44	41.83	38.85	1444-33
Fig. 10 - Cover Plates (See Fig. 10 Diagram) — RoHS Compliant								
Un-painted	4.0 (102)	4.0 (102)	Panel Thickness	HM275-ND	4.75	4.02	3.73	1434-6
	6.0 (152)	4.0 (102)		HM276-ND	5.07	4.29	3.99	1434-8
	7.0 (178)	5.0 (127)		HM278-ND	4.97	4.21	3.91	1434-12
	8.0 (203)	4.0 (102)		HM277-ND	4.82	4.08	3.78	1434-10
	9.0 (229)	5.0 (127)		HM279-ND	5.07	4.29	3.99	1434-14
	10.0 (254)	6.0 (152)		HM280-ND	7.61	6.44	5.98	1434-16
	12.0 (305)	8.0 (203)		HM283-ND	10.75	9.11	8.45	1434-22
	12.0 (305)	10.0 (254)		HM285-ND	10.75	9.11	8.45	1434-29
	13.5 (343)	5.0 (127)		HM281-ND	8.13	6.88	6.39	1434-18
	16.0 (406)	8.0 (203)		HM284-ND	10.75	9.11	8.45	1434-26
	17.0 (432)	4.0 (102)		HM282-ND	8.21	6.96	6.46	1434-20
	17.0 (432)	10.0 (254)		HM286-ND	11.40	9.65	8.96	1434-30
Fig. 11 - 1415 Metal Utility Cases — RoHS Compliant								
Gray	4.0 (102)	4.0 (102)	2.0 (51)	HM305-ND	14.18	12.00	11.14	1415A
	4.0 (102)	5.0 (127)	3.0 (76)	HM306-ND	14.39	12.18	11.31	1415B
	6.0 (152)	5.0 (127)	4.0 (102)	HM307-ND	18.30	15.48	14.39	1415C
	6.0 (152)	6.0 (152)	6.0 (152)	HM308-ND	28.10	23.77	22.08	1415D
	9.0 (229)	6.0 (152)	5.0 (127)	HM309-ND	30.40	25.73	23.89	1415E
	10.0 (254)	8.0 (203)	7.0 (178)	HM310-ND	46.00	38.93	36.15	1415F
	10.0 (254)	10.0 (254)	8.0 (203)	HM312-ND	59.24	50.13	46.55	1415H

◆ ***RoHS Compliant*** * With mounting shelf ‡ With lid ground screw ∆ Flanged Lid
† Dimension "C" does not include lid height § Battery Compartment

(Continued)

Fig. 16 – **Hand Held Enclosure - 1553 Series**

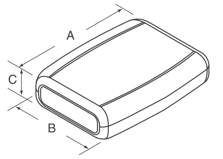

Choice of 2 versions (with or without battery door and compartment). Over molded in general purpose ABS plastic with soft grey plastic grip. Top cover recessed for membrane display or keypad. P.C. board standoffs molded into case. Removable front panel. Battery compartment versions include 4 battery clips (for 2-AA batteries) and a 9 volt (PP3) battery clip.

Fig. 17 – **Flat Lid Enclosure - 1554 Series**

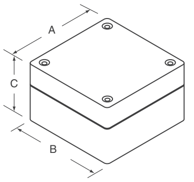

Molded in general purpose grey ABS plastic which carries a UL flammability rating of UL94HB. Silicone rubber gasketed lid with two piece "tongue and groove" construction. Meets IP66 and NEMA 4, 4X, 12 and 13 ratings. Lid secured with self captivating M4 stainless steel machine screws threaded into integral stainless steel bushings. Lid and mounting hole located outside of the gasket seal.

Fig. 18 – **Styled Lid Enclosure - 1555 Series**

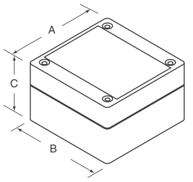

Styled lid has a smooth recessed surface on lid for a membrane keypad or label. Molded in general purpose grey ABS plastic which carries a UL flammability rating of UL94HB. Silicone rubber gasketed lid with two piece "tongue and groove" construction. Meets IP66 and NEMA 4, 4X, 12 and 13 ratings. Lid secured with self captivating M4 stainless steel machine screws threaded into integral stainless steel bushings. Lid and mounting hole located outside of the gasket seal.

Fig. 19 – **Extruded Aluminum with End Plates - 1455 Series**

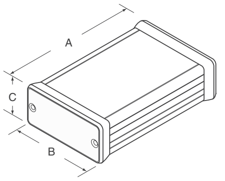

Clear anodized extruded aluminum enclosures. P.C. boards mount horizontally by sliding into internal slots extruded into the enclosure body. Minimum thickness of .06" (1.5mm). Extruded body includes a sliding removable "belly" plate except in the smaller "C" sizes (1455C801 and 1455C1201).

Metal End:
Includes two aluminum end panels and two black plastic bezels. Includes hardware and self-adhesive rubber feet

Plastic End:
Includes two easy to machine black solid ABS plastic end panels. Panels are one piece with integral bezel. Includes hardware and self-adhesive rubber feet.

Color	Dimensions - Inch (mm)			Digi-Key	Price Each			Hammond
	A	B	C	Part No.	1	10	100	Part No.
Gray	12.0 (305)	7.0 (178)	6.0 (152)	HM311-ND	45.75	38.72	35.95	1415G
	12.0 (305)	11.0 (279)	8.0 (203)	HM313-ND	66.78	56.51	52.47	1415I
	15.0 (383)	9.0 (230)	7.0 (179)	HM314-ND	65.36	55.32	51.37	1415J
Fig. 12 - 1426 Ventilated Low Profile Cases — RoHS Compliant								
Off-White	6.0 (152)	5.0 (127)	4.0 (102)	HM297-ND	44.81	37.93	35.22	1426K
	8.0 (203)	6.0 (152)	4.0 (102)	HM298-ND	46.65	39.48	36.66	1426M
	10.0 (254)	7.0 (178)	4.0 (102)	HM299-ND	52.25	44.22	41.06	1426O
	11.0 (279)	11.7 (297)	5.5 (140)	HM300-ND	52.33	44.28	41.12	1426Q
	12.0 (305)	6.0 (152)	4.0 (102)	HM301-ND	55.98	47.38	44.00	1426S
	12.0 (305)	8.0 (203)	4.0 (102)	HM302-ND	55.98	47.38	44.00	1426V
	12.0 (305)	10.0 (254)	4.0 (102)	HM303-ND	59.73	50.54	46.93	1426W
	12.0 (305)	6.0 (152)	5.5 (140)	HM304-ND	55.98	47.38	44.00	1426Y
Fig. 13 - 1458 Low Profile Instrument Cases — RoHS Compliant								
Black	4.0 (102)	4.0 (102)	3.0 (76)	HM334-ND	35.57	30.10	27.95	1458A3
	6.0 (152)	4.0 (102)	4.0 (102)	HM335-ND	39.42	33.36	30.99	1458B4
	6.0 (152)	6.0 (152)	3.0 (76)	HM336-ND	35.57	30.10	27.95	1458C3
	6.0 (152)	6.0 (152)	4.0 (102)	HM337-ND	36.73	31.09	28.87	1458C4
	8.0 (203)	8.0 (203)	3.0 (76)	HM338-ND	42.95	36.34	33.75	1458D3
	8.0 (203)	8.0 (203)	4.0 (102)	HM339-ND	45.34	38.36	35.63	1458D4
	8.0 (203)	8.0 (203)	5.0 (127)	HM340-ND	48.89	41.38	38.43	1458D5
	8.0 (203)	10.0 (254)	3.0 (76)	HM341-ND	46.52	39.38	36.56	1458E3
	8.0 (203)	10.0 (254)	4.0 (102)	HM342-ND	49.17	41.62	38.65	1458E4
	8.0 (203)	10.0 (254)	5.0 (127)	HM343-ND	51.86	43.88	40.75	1458E5
	10.0 (254)	8.0 (203)	3.0 (76)	HM344-ND	49.17	41.62	38.65	1458G3
	10.0 (254)	8.0 (203)	4.0 (102)	HM345-ND	53.31	45.12	41.90	1458G4
	10.0 (254)	8.0 (203)	5.0 (127)	HM346-ND	50.37	42.63	39.59	1458G5
Fig. 14 - 1401 Ventilated High Profile Cases — RoHS Compliant								
Off-White	4.0 (102)	6.0 (152)	4.0 (102)	HM287-ND	48.53	41.07	38.13	1401AAA
	6.0 (152)	6.0 (152)	5.0 (127)	HM288-ND	52.28	44.24	41.09	1401AA
	6.0 (152)	10.0 (254)	5.0 (127)	HM289-ND	56.00	47.39	44.00	1401A
	8.0 (203)	10.0 (254)	9.0 (229)	HM290-ND	65.33	55.29	51.34	1401C
	8.0 (203)	8.0 (203)	8.0 (203)	HM291-ND	61.60	52.13	48.41	1401E
	10.0 (254)	12.0 (305)	9.0 (229)	HM292-ND	82.13	69.50	64.54	1401G
	10.0 (254)	14.0 (356)	6.5 (165)	HM293-ND	83.99	71.07	66.00	1401K
	12.0 (305)	8.0 (203)	9.0 (229)	HM294-ND	87.71	74.22	68.92	1401M
	14.0 (356)	8.0 (203)	9.0 (229)	HM295-ND	89.60	75.82	70.40	1401N
	14.0 (356)	10.0 (254)	5.0 (127)	HM296-ND	80.27	67.92	63.08	1401P
Fig. 15 - 1599 "T" Series Flame Retardant Styrene ABS Plastic Short Slope Console — RoHS Compliant								
Black	3.4 (86)	6.7 (170)	1.3 (33)	HM882-ND	13.46	11.22	10.36	1599ETSBK
	4.3 (109)	8.7 (221)	1.8 (46)	HM883-ND	17.48	14.57	13.45	1599HTSBK
	5.5 (140)	8.7 (221)	1.6 (41)	HM884-ND	16.16	13.47	12.44	1599KTSBK
Fig. 15 - 1599 "T" Series Flame Retardant ABS Plastic Long Slope Console — RoHS Compliant								
Black	8.7 (221)	5.5 (140)	1.6 (41)	HM885-ND	16.16	13.47	12.44	1599KTLBK
Fig. 15 - 1599 "T" Series Flame Retardant ABS Plastic Long Slope Console w/Battery Box — RoHS Compliant								
Black	8.7 (221)	5.5 (140)	1.6 (41)	HM886-ND	20.18	16.82	15.53	1599KTLBKBAT
Fig. 16 – 1553 Soft-Sided Hand Held Enclosure Without Battery Compartment								
Black	4.6 (117)	3.1 (79)	.95 (24)	HM984-ND	6.96	5.80	5.36	1553BBK
	5.8 (147)	3.5 (89)	.98 (24)	HM916-ND◆	7.47	6.23	5.34	1553DBK
Fig. 16 – 1553 Soft-Sided Hand Held Enclosure With Battery Compartment — RoHS Compliant								
Black	4.6 (117)	3.1 (79)	.95 (24)	HM915-ND	10.44	8.70	7.46	1553BBKBAT
	5.8 (147)	3.5 (89)	.98 (24)	HM917-ND	11.48	9.57	8.20	1553DBKBAT
Fig. 17 – 1554 ABS Flame Retardant Watertight Flat Lid Plastic Enclosures								
Gray	2.6 (65)	2.6 (65)	1.6 (40)	HM918-ND◆	7.59	6.33	5.42	1554BGY
	3.5 (90)	3.5 (90)	2.4 (60)	HM920-ND◆	9.40	7.84	6.71	1554EGY
	4.7 (120)	2.6 (65)	1.6 (40)	HM983-ND	8.34	6.95	6.42	1554CGY
	4.7 (120)	2.6 (65)	2.4 (60)	HM919-ND◆	8.46	7.06	6.05	1554DGY
	4.7 (120)	3.5 (90)	2.4 (60)	HM921-ND◆	11.43	9.53	8.17	1554FGY
	4.7 (120)	3.5 (90)	3.2 (80)	HM922-ND◆	11.78	9.83	8.42	1554GGY
	4.7 (120)	4.7 (120)	2.4 (60)	HM924-ND◆	14.28	11.90	10.21	1554NGY

Color	Dimensions - Inch (mm)			Digi-Key	Price Each			Hammond
	A	B	C	Part No.	1	10	100	Part No.
Gray	4.7 (120)	4.7 (120)	3.2 (80)	HM925-ND◆	15.24	12.70	10.88	1554PGY
	6.3 (160)	3.5 (90)	2.4 (60)	HM968-ND	13.79	11.50	10.62	1554JGY
	6.3 (160)	3.5 (90)	3.5 (90)	HM923-ND◆	15.24	12.70	10.88	1554KGY
	6.3 (160)	6.3 (160)	2.4 (60)	HM926-ND◆	20.71	17.27	14.80	1554RGY
	6.3 (160)	6.3 (160)	3.5 (90)	HM927-ND◆	22.13	18.45	15.81	1554SGY
	7.1 (180)	4.7 (120)	2.4 (60)	HM994-ND	15.73	13.11	12.10	1554HGY
	7.1 (180)	4.7 (120)	3.5 (90)	HM928-ND◆	15.87	13.23	11.34	1554TGY
	7.9 (200)	4.7 (120)	3.5 (90)	HM929-ND◆	22.58	18.83	16.13	1554UGY
	9.4 (240)	6.3 (160)	3.5 (90)	HM930-ND◆	28.20	23.50	20.14	1554VGY
Fig. 18 – 1555 ABS Flame Retardant Watertight Styled Lid Plastic Enclosures — RoHS Compliant								
Gray	2.6 (65)	2.6 (65)	1.6 (40)	HM931-ND	7.59	6.33	5.42	1555BGY
	3.5 (90)	3.5 (90)	2.4 (60)	HM934-ND	9.40	7.84	6.71	1555EGY
	4.7 (120)	2.6 (65)	1.6 (40)	HM932-ND	8.34	6.95	5.96	1555CGY
	4.7 (120)	2.6 (65)	2.4 (60)	HM933-ND	8.46	7.06	6.05	1555DGY
	4.7 (120)	3.5 (90)	2.4 (60)	HM935-ND	11.43	9.53	8.17	1555FGY
	4.7 (120)	4.7 (120)	2.4 (60)	HM940-ND	14.28	11.90	10.21	1555NGY
	4.7 (120)	4.7 (120)	3.2 (80)	HM941-ND	15.24	12.70	10.88	1555PGY
	6.3 (160)	3.5 (90)	2.4 (60)	HM938-ND	13.79	11.50	9.86	1555JGY
	6.3 (160)	3.5 (90)	3.5 (90)	HM939-ND	15.24	12.70	10.88	1555KGY
	6.3 (160)	6.3 (160)	3.5 (90)	HM943-ND	22.13	18.45	15.81	1555SGY
	7.1 (180)	4.7 (120)	2.4 (60)	HM937-ND	15.73	13.11	11.24	1555HGY
	7.1 (180)	4.7 (120)	3.5 (90)	HM944-ND	15.87	13.23	11.34	1555TGY
	7.9 (200)	4.7 (120)	3.5 (90)	HM945-ND	22.58	18.83	16.13	1555UGY
	9.4 (240)	6.3 (160)	3.5 (90)	HM946-ND	28.20	23.50	20.14	1555VGY
Fig. 19 – 1455 Extruded Aluminum With Metal End Plates								
Clear	3.2 (80)	2.1 (54)	.91 (23)	HM969-ND	12.21	10.35	8.96	1455C801
	4.7 (120)	2.1 (54)	.91 (23)	HM971-ND	13.03	11.03	9.56	1455C1201
	4.7 (120)	3.1 (78)	1.1 (27)	HM890-ND◆	16.94	14.33	12.42	1455J1201
	4.7 (120)	3.1 (78)	1.7 (43)	HM972-ND◆	17.52	14.82	12.85	1455K1201
	4.7 (120)	4.1 (103)	1.2 (31)	HM894-ND◆	19.54	16.54	14.33	1455L1201
	4.7 (120)	4.1 (103)	2.1 (52)	HM974-ND	19.54	16.54	14.33	1455N1201
	6.3 (160)	3.1 (78)	1.1 (27)	HM892-ND◆	18.94	16.03	13.89	1455J1601
	6.3 (160)	3.1 (78)	1.7 (43)	HM977-ND	19.52	16.52	14.32	1455K1601
	6.3 (160)	4.1 (103)	1.2 (31)	HM896-ND◆	21.99	18.60	16.13	1455L1601
	6.3 (160)	4.1 (103)	2.1 (52)	HM979-ND	21.99	18.60	16.13	1455N1601
	6.3 (160)	6.3 (160)	1.2 (31)	HM992-ND	25.26	21.38	18.52	1455R1601
	6.3 (160)	6.3 (160)	2.1 (52)	HM903-ND◆	25.63	21.69	18.80	1455T1601
	8.7 (220)	4.1 (103)	1.2 (31)	HM898-ND◆	24.98	21.14	18.32	1455L2201
	8.7 (220)	4.1 (103)	2.1 (52)	HM981-ND	24.98	21.14	18.32	1455N2201
	8.7 (220)	6.3 (160)	1.2 (31)	HM901-ND◆	28.25	23.91	20.72	1455R2201
	8.7 (220)	6.3 (160)	2.1 (52)	HM905-ND◆	28.84	24.41	21.16	1455T2201
Fig. 19 – 1455 Extruded Aluminum With Plastic End Plates								
Clear	3.2 (80)	2.1 (54)	.91 (23)	HM970-ND	9.75	8.25	7.15	1455C802
	4.7 (120)	2.1 (54)	.91 (23)	HM976-ND	10.10	8.55	7.41	1455C1202
	4.7 (120)	3.1 (78)	1.1 (27)	HM891-ND◆	12.77	10.82	9.37	1455J1202
	4.7 (120)	3.1 (78)	1.7 (43)	HM973-ND	13.36	11.30	9.80	1455K1202
	4.7 (120)	4.1 (103)	1.2 (31)	HM895-ND◆	15.32	12.97	11.24	1455L1202
	4.7 (120)	4.1 (103)	2.1 (52)	HM975-ND	15.32	12.97	11.24	1455N1202
	6.3 (160)	3.1 (78)	1.1 (27)	HM893-ND◆	14.76	12.50	10.83	1455J1602
	6.3 (160)	3.1 (78)	1.7 (43)	HM978-ND	15.32	12.97	11.24	1455K1602
	6.3 (160)	4.1 (103)	1.2 (31)	HM897-ND◆	17.74	15.02	13.01	1455L1602
	6.3 (160)	6.3 (160)	1.2 (31)	HM900-ND◆	19.79	16.75	14.52	1455R1602
	6.3 (160)	6.3 (160)	2.1 (52)	HM904-ND◆	19.98	16.91	14.66	1455T1602
	8.7 (220)	4.1 (103)	1.2 (31)	HM899-ND◆	20.73	17.55	15.21	1455L2202
	8.7 (220)	4.1 (103)	2.1 (52)	HM982-ND	20.73	17.55	15.21	1455N2202
	8.7 (220)	6.3 (160)	1.2 (31)	HM902-ND◆	23.02	19.49	16.89	1455R2202
	8.7 (220)	6.3 (160)	2.1 (52)	HM906-ND◆	23.42	19.83	17.19	1455T2202

◆ ***RoHS Compliant*** * With mounting shelf ‡ With lid ground screw Δ Flanged Lid
† Dimension "C" does not include lid height § Battery Compartment

3M Bumpons™ Protective Products

Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5
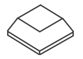 Tapered Square	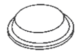 Cylindrical	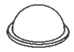 Hemisphere	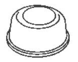 Hemisphere	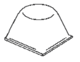 Cylindrical

Fig.	Dimension - Inch (mm) W	H	Digi-Key Part No. *	Pricing		
1	.50 (12.70)	.12 (3.05)	SJ5508-☐-ND	5.88/**64**	50.44/**640**	67.25/**1,024**
	.50 (12.70)	.23 (5.84)	SJ5518-☐-ND	10.17/**64**	87.13/**640**	116.17/**1,024**
	.81 (20.57)	.30 (7.62)	SJ5523-☐-ND‡	.96/**4**	7.43/**36**	86.71/**504**
	.40 (10.16)	10 (2.54)	SJ5007-0-ND	4.61/**54**	39.53/**540**	65.88/**1,080**
2	.50 (12.70)	.14 (3.56)	SJ5012-☐-ND	5.50/**56**	47.12/**560**	70.69/**1,008**
	.50 (12.70)	.14 (3.56)	SJ5312-7-ND†	5.50/**56**	47.12/**560**	70.69/**1,008**
	.312 (7.92)	.215 (5.46)	SJ5744-0-ND	1.68/**144**	7.19/**720**	11.99/**1,440**
	.375 (9.53)	.135 (3.43)	SJ5745-0-ND	2.75/**144**	11.79/**720**	19.66/**1,440**
	.312 (7.92)	.200 (5.08)	SJ5746-0-ND	1.56/**144**	6.70/**720**	11.16/**1,440**
	.312 (7.92)	.210 (5.33)	SJ5747-0-ND	1.68/**144**	7.19/**720**	11.99/**1,440**
	.375 (9.53)	.250 (6.35)	SJ5749-0-ND	1.91/**96**	8.18/**480**	13.63/**960**
	.375 (9.53)	.311 (7.90)	SJ5750-0-ND	1.93/**48**	16.55/**480**	34.47/**1,200**
3	.63 (16.00)	.31 (7.87)	SJ5027-☐-ND	9.87/**40**	110.03/**520**	126.53/**1,040**
	.44 (11.18)	.20 (5.08)	SJ5303-7-ND†	5.10/**56**	43.73/**560**	65.60/**1,008**
	.44 (11.18)	.20 (5.08)	SJ5003-☐-ND	5.10/**56**	43.73/**560**	65.60/**1,008**
	.75 (19.05)	.38 (9.65)	SJ5017-☐-ND	12.65/**40**	140.93/**520**	162.07/**1,040**
	.375 (9.53)	.235 (5.97)	SJ5748-0-ND	1.87/**96**	8.01/**480**	13.34/**960**
4	.88 (22.35)	.40 (10.16)	SJ5009-☐-ND	9.89/**24**	25.44/**72**	148.38/**504**
5	.81 (20.57)	.52 (13.21)	SJ5514-☐-ND	2.25/**4**	17.38/**36**	202.77/**504**

* Use numbers to designate color choice: 9–white, 8–gray, 1–brown (‡ not available in brown), 0–black, in the ☐ of each part number. † Transparent

Description	Digi-Key Part No.	Price Each 1	10	25
Bumpon Foot/Spacer/Cushion Variety Pack (28 pcs.)	SJ5751-ND	15.77	10.88	10.34

3M Scotch-Brite™ High Performance Cloth 2011

2011 high performance cloth provides excellent dust, oil and water pickup with minimal linting. This is a versatile non-scratching tool to be used on a wide variety of substrates including stainless steel, chrome, enamel, painted surfaces, plastics, glass, computer monitors, wood, marble and other delicate surfaces. It can be used dry or damp, with or without cleaning chemicals.

Description	Digi-Key Part No.	Price Each 1	5	10	25
Blue, High Performance Cloth, 32 x 36cm	3M2011B-ND	4.63	4.17	3.70	3.24
Red, High Performance Cloth, 32 x 36cm	3M2011R-ND	4.63	4.17	3.70	3.24
White, High Performance Cloth, 32 x 36cm	3M2011W-ND	4.63	4.17	3.70	3.24

3M Scotch-Weld™ Potting Compound Adhesives and Applicators

Scotch-Weld Epoxy Potting Compound/Adhesive is a two-part, low viscosity epoxy resin system designed primarily for potting, sealing, and encapsulation of many electronic components and is available in clear or black. DP270 is noncorrosive to copper and offers good thermal shock resistance and excellent retention of electrical insulation properties under high humidity conditions.

Scotch-Weld Epoxy Adhesive is a high performance, two-part epoxy adhesive offering outstanding shear and peel adhesion, and very high levels of durability. DP-4XL has 5 ~ 6 hours of work life. It will gain handling strength after 24 hours at room temperature 73°F (23°C) and fully cure at room temperature within several days.

Please see Digi-Key's Web site for detailed specifications.

Description	Digi-Key Part No.	Price Each	3M Part No.
Applicators and Accessories			
Applicator for Duo-Pack, 50mL	3M6431-ND	50.52	9740
Applicator for Duo-Pack, 200mL	3M6442-ND	342.85	EPX APPLICATOR-MANUAL-200
Applicator for Pneumatic, 50mL	3M6445-ND	365.27	EPX-50
Applicator for Pneumatic, 200mL	3M6443-ND	851.38	EPX APPLICATOR-200ML
Applicator for Pneumatic, 400mL	3M6444-ND	945.88	EPX APPLICATOR-400ML
Mixing Nozzle - 50mL - Short 3.25"	3M6460-ND	1.43	62-9171-9153-8
Mixing Nozzle - 50mL - Long 6.25"	3M6461-ND	1.40	62-9742-9935-6
Mixing Nozzle for Duo-Pack, 200/400mL	3M6440-ND	2.14	DUO PACK NOZZLE - 400
Compound and Adhesives			
Potting Compound - Clear - 50mL	3M6432-ND	11.93	DP-270-CLEAR
Potting Compound - Black - 50mL	3M6435-ND	11.93	DP-270-BLACK
Potting Compound - Clear - 200mL	3M6434-ND	39.56	DP-270-CLEAR-200ML
Potting Compound - Black - 200mL	3M6437-ND	36.97	DP-270-BLACK-200ML
Potting Compound - Clear - 400mL	3M6433-ND	64.69	DP-270-CLEAR-400ML
Potting Compound - Black - 400mL	3M6436-ND	63.45	DP-270-BLACK-400ML
Epoxy Adhesive for Duo-Pack, Two-part - 37mL	3M6439-ND†	13.55	DP-4XL

† Uses 50ml applicator and nozzle

3M Bumpons™ Protective Products — Resilient Rollstock

With Bumpon resilient rollstock, you can customize non-skid feet, spacers or cushions that help protect from skidding and vibration. Help protect surfaces from marring, staining or abrasion with this high-performance cushioning material that can be die cut by a converter to fit virtually any shape or application. Adhesive options: Natural rubber, an effective solution for a wide variety of application and acrylic, an excellent choice when there will be exposure to higher temperatures.

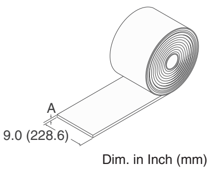

Specifications:
- Material: Pigmented polyurethane
- Hardness: Shore A 70 for SJ-5800, SJ-6000 and SJ-6200 series. Shore A 36 for SJ-5900 series.

Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each
Clear, 72 Yard Roll	0.032 (0.8)	SJ5632-ND•	1594.15
Clear, 1 Linear Foot	0.032 (0.8)	SJ5632-1FT-ND•	11.86
Clear, 36 Yard Roll	0.063 (1.6)	SJ5616-ND•	1001.48
Clear, 1 Linear Foot	0.063 (1.6)	SJ5616-1FT-ND•	14.90
Clear, 36 Yard Roll	0.126 (3.2)	SJ5608-ND•	1707.64
Clear, 1 Linear Foot	0.126 (3.2)	SJ5608-1FT-ND•	25.41
Black, 72 Yard Roll	0.032 (0.8)	SJ5832-ND	1175.19
Black, 1 Linear Foot	0.032 (0.8)	SJ5832-1FT-ND	8.74
Black, 36 Yard Roll	0.063 (1.6)	SJ5816-ND	637.57
Black, 1 Linear Foot	0.063 (1.6)	SJ5816-1FT-ND	9.49
Black, 36 Yard Roll	0.126 (3.2)	SJ5808-ND	1258.89
Black, 1 Linear Foot	0.126 (3.2)	SJ5808-1FT-ND	18.73
Black, 36 Yard Roll	0.063 (1.6)	SJ5916-ND•	785.95
Black, 1 Linear Foot	0.063 (1.6)	SJ5916-1FT-ND•	11.70
Black, 36 Yard Roll	0.126 (3.2)	SJ5908-ND•	1178.94
Black, 1 Linear Foot	0.126 (3.2)	SJ5908-1FT-ND•	17.54
Black, 18 Yard Roll	0.252 (6.4)	SJ5904-ND•	868.67
Black, 1 Linear Foot	0.252 (6.4)	SJ5904-1FT-ND•	25.85

• Acrylic Adhesive

3M Command™ Adhesive Strips

Features: • Holds strongly • Removes cleanly with no surface damage • Works great for prototyping

Description	Digi-Key Part No.	Price Each 1	5	10	3M Part No.
8 Small, 4 Medium and 4 Large Strips per pack	3M6452-ND	4.03	3.63	3.22	17200

3M Clean-Walk Mats

Clean-Walk Unframed Mats (5830 Series) and Clean-Walk Framed Mats (5840 Series) are multi-sheeted adhesive systems that remove dirt and contaminants from shoe soles, wheels and other passing objects on contact. The pads offer 30 or 60 removable adhesive polyethylene sheets that lock dirt in place until discarded. The 5840 Series features a non-skid plastic base that is ideal for carpeted areas. The 5830 Series is ideal for smooth floor surfaces such as concrete.

Applications: • Prevents contamination between high traffic production areas and office environments • Ideal for fabricated metal shops, machinery and electronics equipment operations, printing and publishing facilities, construction and remodeling projects, health care facilities, warehouses, office, commercial and government buildings. • For use in clean room entrances

Series	Description	Standard Size	Sheets per Mat	Digi-Key Part No.	Price Each
5830	Unframed – White	18" x 36" 25" x 45"	30	3M6426-ND 3M6427-ND	155.71 274.87
5840	Framed – White Framed – Black	31.5" x 25.5"	60	3M6428-ND 3M6429-ND	129.71 129.71
5842	Replacement Pads	30" x 24"	60	3M6430-ND	162.13

3M Scotch-Weld™ Hot Melt Bonding Systems

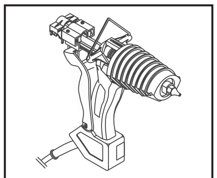

3M™ Scotch-Weld Hot Melt Adhesives and Applicators are advanced hand-held systems to help you improve productivity, lower cost, and minimize waste.

Adhesives are 100% solids thermoplastic resins that become fluid when heated and quickly wet the bonding surface. They cool, harden, and reach bond strength in seconds.

Description	Adhesive Size Dia. x Length (In.)	Digi-Key Part No.	Price Each
Applicators			
Hot Melt Applicator TC	5/8 x 2	3M6424-ND	116.39
Hot Melt Applicator TC with Quadtrack™ Converter	5/8 x 8	3M6425-ND	136.51
Hot Melt Applicator EC	5/8 x 8	3M6423-ND	368.31

Description	Diameter x Length (In.)	Digi-Key Part No.	Price Each 5	10	25	100
Adhesives — RoHS Compliant						
Electrical potting, low viscosity, hi-temp. resistant	5/8 x 2	3M6414-ND	.68	.58	.44	.36
Hi-temp. resistant, non-corrosive, bonds polyolefins	5/8 x 8	3M6415-ND†	2.28	2.11	1.58	1.30
Hi-temp. resistant, non-corrosive, bonds polyolefins	5/8 x 2	3M6416-ND†	.62	.53	.40	.33
Temp. resistant, non-corrosive, bonds polyolefins	5/8 x 8	3M6417-ND	2.25	2.08	1.56	1.28
Temp. resistant, non-corrosive, bonds polyolefins	5/8 x 2	3M6418-ND	.65	.56	.42	.35
Bonds a variety of plastics	5/8 x 8	3M6419-ND	2.02	1.87	1.40	1.15
Bonds a variety of plastics	5/8 x 2	3M6420-ND	.59	.51	.38	.31
Hi-temp. resistant	5/8 x 8	3M6421-ND	3.65	3.37	2.53	2.08
Hi-temp. resistant	5/8 x 2	3M6422-ND	1.09	.94	.71	.58

† Meets UL 1410

3M Foil, Electrical, and Specialty Tapes

Please see Digi-Key's website for detailed specifications and diagrams.

RoHS COMPLIANT

Description	Dimensions Width x Length	Digi-Key Part No.	Price Each 1	5	3M Part No.
3M Laminating Adhesives					
Adhesive Transfer Tape, 100MP Adhesive, Clear, .005”, Dual-linered for Prototyping	8.5” x 8.5”	3M6446-ND	8.13	6.50	F9469PC
Adhesive Transfer Tape, 200MP Adhesive, Clear, .005”, Dual-linered for Prototyping	8.5” x 8.5”	3M6447-ND	6.63	5.30	468MP
Double Coated Tape, 200MP Adhesive, Clear, .0057”, Dual-linered for Prototyping	8.5” x 8.5”	3M6448-ND	7.50	6.00	9495MP
Double Coated Tape, 300LSE Adhesive, Clear, .0067”, Dual-linered for Prototyping	8.5” x 8.5”	3M6449-ND	7.75	6.20	9495LE
Double Coated Tape, 300MP Adhesive, Tan, .0055”, Dual-linered for Prototyping	8.5” x 8.5”	3M6450-ND	6.25	5.00	9786
Double Coated Tape, 300MP Adhesive, Clear, .0067”, Dual-linered for Prototyping	8.5” x 8.5”	3M6451-ND	7.00	5.60	9490LE
Aluminum Foil Tape					
Aluminum Foil Tape, 2.8-mil, Acrylic Adhesive, Thermally Conductive, Heat & Light Reflective	1” x 60 yds.	3M5613-ND	20.93	17.94	425-1”X60YD-BULK
Aluminum Foil Tape, 2.8-mil, Acrylic Adhesive, Thermally Conductive, Heat & Light Reflective	3” x 60 yds.	3M5614-ND	62.81	53.84	425-3”X60YD-BULK
Aluminum Foil Tape, 2.8-mil, Acrylic Adhesive, Thermally Conductive, Heat & Light Reflective	2” x 60 yds.	3M5615-ND	63.77	54.66	427-2”X60YD
Aluminum Foil Tape, 2.0-mil, Silicone Adhesive, Thermally Conductive, Heat & Light Reflective	1” x 60 yds.	3M5617-ND	63.16	54.14	433-1”X60YD
Aluminum Foil Tape, 2.0-mil, Silicone Adhesive, Thermally Conductive, Heat & Light Reflective	2” x 60 yds.	3M5616-ND	126.32	108.27	433-2”X60YD
Aluminum Foil Tape, 2.0-mil, Silicone Adhesive, Thermally Conductive, Heat & Light Reflective, Linered	1” x 60 yds.	3M5632-ND	75.08	64.35	433L-1”X60YD
Aluminum Foil Tape, 2.0-mil, Silicone Adhesive, Thermally Conductive, Heat & Light Reflective, Linered	2” x 60 yds.	3M5631-ND	167.24	143.36	433L-2”X60YD
Aluminum Foil Tape, 5.0-mil, Acrylic Adhesive, Thermally Conductive, Heat and Light Reflective	2” x 60 yds.	3M5633-ND	76.16	65.28	438
Double Coated Foam Tape					
Attachment Tape, .045”, Acrylic Plus Adhesive, High Performance, Black, Automotive Grade	1/4” x 20 yds.	3M6411-ND†	17.83	—	06386
Attachment Tape, .045”, Acrylic Plus Adhesive, High Performance, Black, Automotive Grade	1/2” x 5 yds.	3M6410-ND	9.92	—	06384
Attachment Tape, .045”, Acrylic Plus Adhesive, High Performance, Black, Automotive Grade	1/2” x 20 yds.	3M6408-ND	31.13	—	06382
Attachment Tape, .045”, Acrylic Plus Adhesive, High Performance, Black, Automotive Grade	7/8” x 20 yds.	3M6409-ND	47.29	—	06383
Attachment Tape, .060”, Acrylic Plus Adhesive, High Performance, Black, Automotive Grade	7/8” x 10 yds.	3M6412-ND	34.53	—	06395
Attachment Tape, .090”, Acrylic Plus Adhesive, High Performance, Gray, Automotive Grade	1/2” x 10 yds.	3M6413-ND	22.84	—	06394
Double Coated Foam Tape, .125”, Pressure Sensitive Acrylic Adhesive, Off-White Urethane Foam	1” x 36 yds.	3M4008-ND	57.57	—	4008 1”
Double Coated Foam Tape, .062”, Pressure Sensitive Acrylic Adhesive, Off-White Urethane Foam	1” x 36 yds.	3M40161-ND	38.74	—	4016 1”
Double Coated Foam Tape, .062”, Pressure Sensitive Acrylic Adhesive, Neutral Urethane Foam	1” x 36 yds.	3M4026-ND	33.29	—	4026 1”
Double Coated Foam Tape, .125”, Pressure Sensitive Acrylic Adhesive, Black Vinyl Foam	1” x 36 yds.	3M44081-ND	79.94	—	4408 1”
Double Coated Foam Tape, .062”, Pressure Sensitive Acrylic Adhesive, Black Vinyl Foam	1” x 36 yds.	3M44161B-ND	57.80	—	4416 1” BLACK
Double Coated Foam Tape, .062”, Pressure Sensitive Acrylic Adhesive, White Vinyl Foam	1” x 36 yds.	3M44161W-ND	57.80	—	4416 1” WHITE
Double Coated Foam Tape, .045”, Pressure Sensitive VHB™ Acrylic Adhesive, Dark Gray	1/2” x 36 yds.	3M6462-ND ***NEW!***	30.00	25.71	4611 1/2 IN X 36 YD
Double Coated Foam Tape, .020”, Pressure Sensitive VHB Acrylic Adhesive, Clear	1” x 72 yds.	3M6463-ND ***NEW!***	132.48	113.55	4905-1”X72YD
Double Coated Foam Tape, .020”, Pressure Sensitive VHB Acrylic Adhesive, Clear	1/2” x 72 yds.	3M6464-ND ***NEW!***	70.95	60.81	4905-1/2”X72YD
Double Coated Foam Tape, .020”, Pressure Sensitive VHB Acrylic Adhesive, Clear	3/4” x 72 yds.	3M6465-ND ***NEW!***	94.61	81.09	4905-3/4”X72YD
Double Coated Foam Tape, .040”, Pressure Sensitive VHB Acrylic Adhesive, Clear (small pack)	1/2” x 36 yds.	3M6466-ND ***NEW!***	41.91	35.93	4910 -1/2”X36YD
Double Coated Foam Tape, .040”, Pressure Sensitive VHB Acrylic Adhesive, Clear	1/2” x 36 yds.	3M6467-ND ***NEW!***	37.42	32.07	4910-CLEAR-1/2”X36YD
Double Coated Foam Tape, .040”, Pressure Sensitive VHB Acrylic Adhesive, Clear	3/4” x 15 yds.	3M5648-ND	30.59	26.22	4910 3/4”X15YD
Double Coated Foam Tape, .040”, Pressure Sensitive VHB Acrylic Adhesive, Clear	1” x 36 yds.	3M5650-ND	62.37	53.46	4910-CLEAR-1”X36YD
Double Coated Foam Tape, .045”, Pressure Sensitive VHB Acrylic Adhesive, White Acrylic Foam	1/2” x 36 yds.	3M5625-ND	56.19	48.17	4950-1/2”X36YD-SMPK
Double Coated Foam Tape, .045”, Pressure Sensitive VHB Acrylic Adhesive, White Acrylic Foam	3/4” x 36 yds.	3M5626-ND	74.95	64.25	4950-3/4”X36YD-SMPK
Double Coated Foam Tape, .045”, Pressure Sensitive VHB Acrylic Adhesive, White Acrylic Foam	1” x 36 yds.	3M5627-ND	93.64	80.27	4950-1”X36YD-SMPK
Double Coated Foam Tape, .045”, Pressure Sensitive VHB Modified Acrylic Adhesive, Black	1/2” x 36 yds.	3M5648-ND ***NEW!***	30.59	26.22	5952-1/2”X36YD
Double Coated Foam Tape, .045”, Pressure Sensitive VHB Modified Acrylic Adhesive, Black	3/4” x 15 yds.	3M5647-ND	30.59	26.22	5952 3/4”X15YD
Double Coated Foam Tape, .045”, Pressure Sensitive VHB Modified Acrylic Adhesive, Black	1” x 36 yds.	3M5649-ND	78.79	67.53	5952 1”X36YD
Duct Tape					
Duct Tape Clean Remove, 12.6-mil, Slate Blue Polyethylene Film, Synthetic Rubber Adhesive	1.88” x 60 yds.	3M5630-ND	12.57	10.77	8979-BLUE-48MMX54.8M
Duct Tape Industrial Grade, 10.7-mil, Black Polyethylene Film, Rubber Adhesive	1.88” x 60 yds.	3M69692B-ND	11.52	—	6969 2” BLACK
Duct Tape Industrial Grade, 10.7-mil, Silver Polyethylene Film, Rubber Adhesive	1.88” x 60 yds.	3M69692S-ND	11.52	—	6969 2” SILVER
Electrical Tape – Black					
Vinyl Mastic Pad, All-Weather Grade, 125-mil, Black Vinyl Film, Rubber Mastic	3-1/4" x 4-1/2"	3M11008-ND	4.00	—	2200 (3-1/4”X4-1/2”)
Electrical Tape, General Purpose, 7-mil, Black PVC, Flame-Retardant	3/4" x 66’	3M1700-ND	1.16	—	1700 TEMFLEX
Electrical Tape, Premium Grade, All-Weather, 7-mil, Black PVC, Pressure-Sensitive Adhesive	3/4” x 66’	3M33+A-ND	5.82	—	33+ SUPER (3/4”X66’)
Electrical Tape, Premium Grade, All-Weather, 8.5-mil, Black PVC, Pressure-Sensitive Adhesive	3/4” x 66’	3M88A-ND	6.54	—	88 SUPER (3/4”X66’)
Electrical Color Coding Tape – Colored					
Electrical Color Coding Tape, Red PVC, 7-mil, Pressure-Sensitive Adhesive	3/4” x 66’	3M35-RD-ND	5.40	—	35 RED (3/4”X66’)
Electrical Color Coding Tape, Orange PVC, 7-mil, Pressure-Sensitive Adhesive	3/4” x 66’	3M35-OR-ND	5.40	—	35 ORANGE (3/4”X66’)
Electrical Color Coding Tape, Yellow PVC, 7-mil, Pressure-Sensitive Adhesive	3/4” x 66’	3M35-YL-ND	5.40	—	35 YELLOW (3/4”X66’)
Electrical Color Coding Tape, Green PVC, 7-mil, Pressure-Sensitive Adhesive	3/4” x 66’	3M35-GN-ND	5.40	—	35 GREEN (3/4”X66’)
Electrical Color Coding Tape, Blue PVC, 7-mil, Pressure-Sensitive Adhesive	3/4” x 66’	3M35-BL-ND	5.40	—	35 BLUE (3/4”X66’)
Electrical Color Coding Tape, Violet PVC, 7-mil, Pressure-Sensitive Adhesive	3/4” x 66’	3M35-VL-ND	5.40	—	35 VIOLET (3/4”X66’)
Electrical Color Coding Tape, Gray PVC, 7-mil, Pressure-Sensitive Adhesive	3/4” x 66’	3M35-GY-ND	5.40	—	35 GRAY (3/4”X66’)
Electrical Color Coding Tape, White PVC, 7-mil, Pressure-Sensitive Adhesive	3/4” x 66’	3M35-WH-ND	5.40	—	35 WHITE (3/4”X66’)
Glass and Aluminum/Glass Cloth Tape					
Glass Cloth Tape, White, 5.4-mil, Silicone Adhesive, High Tensil Strength, General Purpose	1” x 60 yds.	3M5609-ND	60.83	52.14	361-1”X60YD
Glass Cloth Tape, White, 5.4-mil, Silicone Adhesive, High Tensil Strength, General Purpose	2” x 60 yds.	3M5610-ND	121.68	104.30	361-2”X60YD
Aluminum/Glass Cloth Tape, 7.3-mil, Silicone Adhesive, Flame/Tear/Puncture-Resistant	1” x 36 yds.	3M5611-ND	99.30	85.11	363-1”X36YD
Aluminum/Glass Cloth Tape, 7.3-mil, Silicone Adhesive, Flame/Tear/Puncture-Resistant	2” x 36 yds.	3M5612-ND	198.59	170.22	363-2”X36YD
High Temperature Tape					
High Temperature Kapton Tape, 2.7-mil, Amber KAPTON Polyimide Film, Silicone Adhesive	1/2” x 36 yds.	3M541312-ND	25.84	—	5413 1/2”
High Temperature Kapton Tape, 2.7-mil, Amber KAPTON Polyimide Film, Silicone Adhesive	3/4” x 36 yds.	3M541334-ND	38.77	—	5413 3/4”
Wave Solder Tape, Low Static, 2.7-mil, Amber Polyimide Film, Silicone Adhesive	1/2” x 36 yds.	3M591912-ND	27.84	—	5419 1/2”
Wave Solder Tape, Low Static, 2.7-mil, Amber Polyimide Film, Silicone Adhesive	3/4” x 36 yds.	3M591934-ND	39.77	—	5419 3/4”
Wave Solder Tape, Water-Soluble, PVA Film Backing, Water-soluble Synthetic Adhesive	1/2” x 36 yds.	3M541412-ND	26.31	—	5414 1/2”
Wave Solder Tape, Water-Soluble, PVA Film Backing, Water-soluble Synthetic Adhesive	3/4” x 36 yds.	3M541434-ND	41.43	—	5414 3/4”

† Recommended for wheel flares or other less demanding applications due to a narrower width.

(Continued)

3M Foil, Electrical, and Specialty Tapes *(Cont.)*

Description	Dimensions Width x Length	Digi-Key Part No.	Price Each 1	5	3M Part No.
ScotchCode™ Wire Marker Tape Dispensers					
ScotchCode SDR Wire Marker Tape Dispenser with 0-9 Wire Marker Tapes	—	STD-0-9-ND	39.74	—	STD-0-9
ScotchCode SDR Wire Marker Tape Dispenser with 10 Colored Wire Marker Tapes	—	STD-C-ND	39.74	—	STD-C
ScotchCode SDR Wire Marker Tape Dispenser (no tape included)	—	STD-ND	13.06	—	STD
ScotchCode™ Wire Marker Tape Refills					
"0" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-0-ND	2.84	—	SDR-0
"1" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-1-ND	2.84	—	SDR-1
"2" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-2-ND	2.84	—	SDR-2
"3" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-3-ND	2.84	—	SDR-3
"4" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-4-ND	2.84	—	SDR-4
"5" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-5-ND	2.84	—	SDR-5
"6" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-6-ND	2.84	—	SDR-6
"7" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-7-ND	2.84	—	SDR-7
"8" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-8-ND	2.84	—	SDR-8
"9" ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive, White with Black #'s	0.215" x 96"	SDR-9-ND	2.84	—	SDR-9
Black ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-BK-ND	2.84	—	SDR-BK
Brown ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-BN-ND	2.84	—	SDR-BN
Red ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-RD-ND	2.84	—	SDR-RD
Orange ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-OR-ND	2.84	—	SDR-OR
Yellow ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-YL-ND	2.84	—	SDR-YL
Green ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-GN-ND	2.84	—	SDR-GN
Blue ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-BL-ND	2.84	—	SDR-BL
Violet ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-VL-ND	2.84	—	SDR-VL
Gray ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-GY-ND	2.84	—	SDR-GY
White ScotchCode SDR Wire Marker Tape, 3-mil, Pressure-Sensitive Adhesive	0.215" x 96"	SDR-WH-ND	2.84	—	SDR-WH
Specialty Tape					
Sound Damping Tape, Aluminum, 10-mil, Pressure-Sensitive VEP Acrylic Adhesive	2" x 36 yds.	3M5608-ND	93.36	80.02	2552-2"X36YD
Linerless Rubber Splicing Tape, 30-mil, Self-Bonding, Black Ethylene Rubber	3/4" x 30'	3M130C-ND	16.06	—	130C (3/4"X30')
Self-Fusing Electrical Tape, 12-mil, Blue/Gray Silicone Rubber, Easy Tear - Easy Strip Liner	1" x 30'	3M70-ND	48.54	42.48/10	70 (1"X30')
Reflective Tape, 2-mil, Low Emissivity, Silver Metallic Polyester, Pressure-Sensitive Acrylic Adhesive	1" x 72 yds.	3M5629-ND	85.70	73.46	8437-1"X72YD
Chemical and Solvent Resistant Tape, 2.7-mil, Cream Polyester Film, Rubber Adhesive	1" x 72 yds.	3M85401-ND	15.41	—	854 (1")
Chemical and Solvent Resistant Tape, 2.7-mil, Cream Polyester Film, Rubber Adhesive	2" x 72 yds.	3M85402-ND	30.82	—	854 (2")
Electrically Conductive Transfer Tape, 2-mil, Pressure-Sensitive Conductive Adhesive	1/2" x 36 yds.	3M970312-ND	62.39	—	9703 (1/2")
Safety/Marking Tape					
Black Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5619-ND	26.04	22.32	471-BLACK-2"X36YD-BULK
Red Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5618-ND	26.04	22.32	471-RED-2"X36YD-BULK
Orange Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5623-ND	26.04	22.32	471-ORANGE-2"X36YD-BULK
Yellow Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5621-ND	26.04	22.32	471-YELLOW-2"X36YD-BULK
Green Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5624-ND	26.04	22.32	471-GREEN-2"X36YD-BULK
Blue Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5620-ND	26.04	22.32	471-BLUE-2"X36YD-BULK
White Marking Tape, Premium Performance, Conformable, 5.2-mil, Rubber Adhesive	2" x 36 yds.	3M5622-ND	26.04	22.32	471-WHITE-2"X36YD-BULK
Color Coding Tape Assortment, 1 each - Black, Red, Yellow, Green, Blue, White	1" x 36 yds.	3M5634-ND	7.35	6.30	764
Safety Tape, Black and Yellow Diagonal Striped, 5.4-mil, Vinyl backing, Rubber Adhesive	2" x 36 yds.	3M5628-ND	36.61	31.38	5702-2"X36YD

† Recommended for wheel flares or other less demanding applications due to a narrower width.

3M Fastening Systems

Scotchmate™
Hook and Loop Fastening Systems

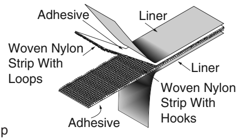

Features: When the two sides of a Scotch-mate Hook and Loop Fastener are pressed together, hundreds of tiny stiff hooks mesh with a surface of pliable loops. Simply press together to fasten and pull apart to open and you can do it thousands of times during the life of your product. Depending on the application, select either Plain-backed or Adhesive-backed versions. Plain-backed versions are easily sewn or stapled in place. Adhesive-backed fasteners are available for bonding to bare or painted metal, many plastics including plasticized vinyl, plus wood, glass and more.

Standard Sew-On, Plain-Backed:
- Tailored appearance for garments
- Wash or dry clean
- Operating Temperature: Up to 250°F (121°C) continuous

Pressure Sensitive Rubber Adhesive-Backed:
- General purpose adhesion to most smooth surfaces
- Operating Temperature: -20°F ~ 120°F (-29°C ~ 49°C)

Width Inch (mm)	Digi-Key Part No.	*Note: X in Part No. = # of yds.* Pricing 1 yd.	10 yds.	25 yds.	50 yds.
Standard Sew-On, Plain-Backed — Black					
5/8 (15.88)	SJ340158B-X-ND†	1.01	8.07	12.61	15.14
	SJ340258B-X-ND‡	1.01	8.07	12.61	15.14
1 (25.40)	SJ340210B-X-ND‡	1.44	11.51	17.99	21.59
Standard Sew-On, Plain-Backed — White					
5/8 (15.88)	SJ340158W-X-ND†	1.09	8.70	13.60	16.32
	SJ340258W-X-ND‡	.90	7.20	11.25	13.50
1 (25.40)	SJ340110W-X-ND†	1.44	11.51	17.99	21.59
	SJ340210W-X-ND‡	1.44	11.51	17.99	21.59
Pressure Sensitive Rubber Adhesive-Backed					
5/8 (15.88)	SJ352758B-X-ND†	5.04	40.33	63.02	67.05
	SJ352658B-X-ND‡	4.79	38.34	59.90	63.73
1 (25.40)	SJ352710B-X-ND†	5.99	47.94	74.91	79.71
	SJ352610B-X-ND‡	5.99	47.94	74.91	79.71

† Loop ‡ Hook

Scotchmate™ Reclosable Fastener SJ3000 — Thin Back-to-back Hook and Loop

Features:
3M™ Scotchmate™ Reclosable Fastener SJ3000 is a thin back-to-back fastener offering closure alternatives to plastic wire, tape, string, rubber bands and other types of closure systems used to secure individual or bundles of items. One side of the thin fastener strip is covered with tiny translucent polypropylene hooks, approximately 1400 per square inch (220/sq. cm). These hooks engage with thousands of soft, pliable, thin polyester loops on the reverse side providing for a limited number of openings and closings (cycles). Simply pull the strips apart to disengage.

- **Material of Construction:** *Hook:* Translucent Polypropylene; *Loop:* Polyester
- **Thickness - Unmated:** 0.027", 0.69mm

Width Inch (mm)	Color	Digi-Key Part No.	*Note: X in Part No. = # of yds.* Pricing 1 yd.	10 yds.	25 yds.	50 yds
1 (25.40)	Red	SJ300010R-X-ND	1.45	9.30	20.66	36.16
.5 (12.70)		SJ300012R-X-ND	.88	5.69	12.64	22.12
1 (25.40)	Black	SJ300010B-X-ND	1.45	9.30	20.66	36.16
.5 (12.70)		SJ300012B-X-ND	.87	5.58	12.40	21.69

Rigid Backed Dual Lock

Round	Square
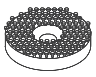	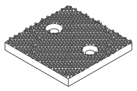

Features: Type 400 Dual Lock Fasteners on a rigid back with recessed mounting hole.

Size (mm)	Hole Size	Digi-Key Part No.	Pricing 1	50	100
Round					
20.6 Diameter	4.1mm	SJ3463-ND	.28	11.00	16.50
14.3 Diameter	4.1mm	SJ3465-ND	.40	16.00	24.00
Square					
38.1 Square	4.2mm	SJ3252-ND	.68	27.00	40.50
38.1 Square	3.6mm	SJ3261-ND	.68	27.00	40.50

(Continued)

3M Fastening Systems *(Cont.)*

Dual Lock™
Reclosable Fastening Systems

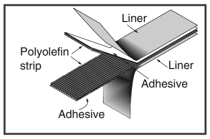

Features:

When these fasteners are pressed together, hundreds of mushroom-shaped stems interlock with one another. An audible snap announces that the fastener is locked. Compared to hook and loop fasteners, you get improved tensile strength with five times more holding power. Open and close hundreds of times during the life of your product. Plain-backed versions can be easily sewn, stapled or ultrasonically bonded in place. Adhesive-backed versions are available for bonding to bare or painted metal, many plastics including plasticized vinyl, plus wood, glass and more. For easy opening applications, you can mate Type 250 with Type 170. For medium opening, you can mate Type 170 with Type 400 or Type 250 with itself. For greater holding power with limited openings, you can mate Type 250 with Type 400 or Type 170 with Scotchmate Loop Products.

Plain-Backed: Sew on or staple. Wash or dry clean. • Operating Temperature: -20°F ~ 200°F (-29°C ~ 93°C)

Pressure Sensitive Rubber Adhesive-Backed: General purpose. Bonds to most surfaces. • Operating Temperature: -20°F ~ 120°F (-29°C ~ 49°C) continuous.

Pressure Sensitive Very High Bond Scotch™ VHB™ Acrylic Adhesive-Backed: High performance for aircraft, automotive, business equipment, electronics. Resists harsh wet/dry, hot/cold cycles. • Operating Temperature: -20°F ~ 158°F (-29°C ~ 70°C) continuous

Dual Lock, Low Profile Acrylic Adhesive-Backed: • Material of Construction: Polypropylene • Operating Temperature: -29°F (29°C) and up to 158°F (70°C) • Single Thickness: .0645" (1.63mm) • Engaged Thickness: .0910" (2.31mm) • Closure Cycle Life: 100 ~ 150

Width Inch (mm)	Type	Digi-Key Part No.	*Note: X in Part No. = # of yds.* Pricing 1 yd.	10 yds.	25 yds.	50 yds.
			Plain-Backed — Black			
.5 (12.70)	250	SJ344012-X-ND	5.81	46.50	72.66	87.20
	400	SJ344112-X-ND	5.81	46.50	72.66	77.31
	170	SJ344212-X-ND	5.81	46.50	72.66	77.31
1 (25.40)	250	SJ344010-X-ND	9.79	78.31	122.36	146.83
	400	SJ344110-X-ND	9.69	77.50	121.10	128.85
	170	SJ344210-X-ND	9.69	77.50	121.10	128.85
			Plain-Backed — Clear			
.5 (12.70)	250	SJ346012-X-ND	7.42	59.38	92.78	98.71
1 (25.40)	250	SJ346010-X-ND	11.59	92.73	144.89	154.17
			Pressure Sensitive Rubber Adhesive-Backed — Black			
.5 (12.70)	250	SJ354012-X-ND	6.81	54.51	85.18	102.21
	400	SJ354112-X-ND	6.62	52.93	82.70	87.99
	170	SJ354212-X-ND	6.62	52.93	82.70	87.99
1 (25.40)	250	SJ354010-X-ND	11.36	90.84	141.94	170.33
	400	SJ354110-X-ND	11.02	88.18	137.79	146.61
	170	SJ354210-X-ND	11.02	88.18	137.79	146.61
			Pressure Sensitive Very High Bond Scotch™ VHB™ Acrylic Adhesive-Backed — Black			
.5 (12.70)	250	SJ355012-X-ND	9.70	77.62	121.28	129.04
	400	SJ355112-X-ND	9.70	77.62	121.28	129.04
	170	SJ355212-X-ND	9.70	77.62	121.28	129.04
1 (25.40)	250	SJ355010-X-ND	16.17	129.33	202.08	242.49
	400	SJ355110-X-ND	16.17	129.33	202.08	206.12
	170	SJ355210-X-ND	16.17	129.33	202.08	206.12
			Pressure Sensitive Very High Bond Scotch™ VHB™ Acrylic Adhesive-Backed — Clear			
.5 (12.70)	250	SJ356012-X-ND	11.14	89.12	139.25	148.16
1 (25.40)	250	SJ356010-X-ND	18.57	148.58	232.15	236.79
			Dual Lock, Low Profile Acrylic Adhesive-Backed — Clear			
1 (25.40)	300 LSE	SJ457010C-X-ND	4.82	30.96	60.20	—
			Dual Lock, Low Profile Acrylic Adhesive-Backed — Black			
1 (25.40)	300 LSE	SJ457510B-X-ND	4.36	28.05	62.33	109.08

MiniPack

Features: Assorted Hook, Loop and Dual Lock™ Fastening systems.

Description	Digi-Key Part No.	Price Each 1	5	10
Hook and Loop (4.9 yards per pack)				
Black, 1", Sew-on	MP-3401/02B-ND	19.27	16.52	14.87
White, 1", Sew-on	MP-3401/02W-ND	19.27	16.52	14.87
Black, 1", Adhesive	MP-3526/27B-ND	37.14	31.83	28.65
White, 1", Adhesive	MP-3526/27W-ND	37.14	31.83	28.65
Dual Lock™ (4.9 yards per pack)				
Black, 1", Adhesive	MP-3541/42B-ND	55.11	47.24	42.52
Black, 1", High Bond	MP-3551/52B-ND	77.11	66.09	59.49
Dual Lock, Low Profile (10 feet per pack)				
Clear, 5/8", Adhesive	MP-457058C-10-ND	14.82	—	12.71

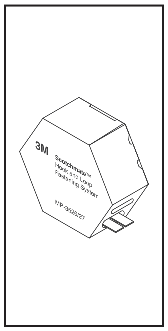

Richco Adjustable Kwik Klip

Features:
- 4 sizes adjust to any holding diameter from 5/16" ~ 1" (7.9 ~ 25.4mm)
- Locks securely, easily reopened for routing changes
- Adhesive back
- **Material:** Nylon 6/6
- **Color:** Natural

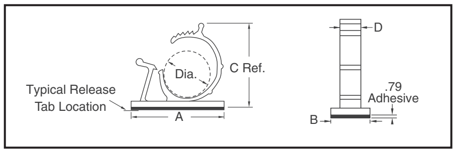

Dia. Range (mm)	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
7.87 ~ 10.16	25.40	19.05	22.10	10.16	RP309-ND	7.39	61.61	246.44	AKKL-3140A-RT
11.68 ~ 14.22	31.75	19.05	27.69	10.16	RP310-ND	9.24	77.03	308.10	AKKL-4756A-RT
14.48 ~ 19.05	38.10	19.05	31.75	12.70	RP311-ND	12.74	106.21	424.82	AKKL-5775A-RT
22.10 ~ 25.40	50.80	25.40	44.45	12.70	RP312-ND	14.42	120.20	480.80	AKKL-8710A-RT

Tie Holders

Fig. 1 — Features: • Multi-directional • **Material:** Nylon 6/6, UV Stabilized Nylon 6/6

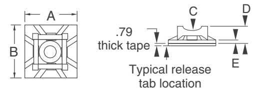

Fig. 2 — Features: • Ramp feature allows ties to pass through easily • 4-way entry • **Material:** Nylon 6/6, Adhesive, UV Stabilized Nylon 6/6

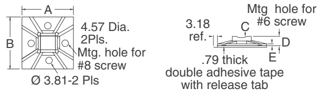

Fig.	Tensile Force (kg)	Dimensions (mm) A	B	C	D	E	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
							Nylon				
1	6.72/11.20	19.05	19.05	6.35	6.10	1.52	RP301-ND	4.94	41.16	164.62	FTH-5A-RT-C
	18.66/22.39	25.40	25.40	11.68	7.11	1.78	RP302-ND	5.24	43.63	174.50	FTH-7-01A-RT
2	44.79	38.10	38.10	10.92	7.62	2.03	RP303-ND	14.96	124.63	498.50	FTH-8-01A-RT
	44.79	50.80	50.80	10.92	7.62	2.03	RP304-ND	16.22	135.18	540.72	FTH-10-01A-RT
							Ultra Violet – Exterior or Outdoor Use (Black)				
1	6.72/11.20	19.05	19.05	6.35	6.10	1.52	RP305-ND	4.65	38.79	155.16	FTH-5-01A-RT-UVB
	18.66/22.39	25.40	25.40	11.68	7.11	1.78	RP306-ND	6.63	55.26	221.04	FTH-7A-RT-UVB-C
2	44.79	38.10	38.10	10.92	7.62	2.03	RP307-ND	14.15	117.95	471.78	FTH-8-01A-RT-UVB

LED Spacers

Features: • Spaces LED from surface of board • Easily installed by hand • Insulates and spaces leads • Slots and holes for choice of mount • **Material:** Nylon 6/6 • **Color:** Natural

Fig. 1

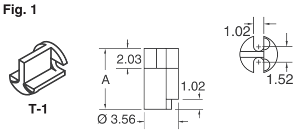

T-1

Fig. 2

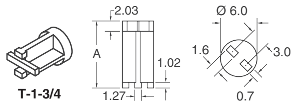

T-1-3/4

Fig.	Dimension A (mm)	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
1	4.57	RP500-ND	3.39	28.25	113.00	LEDS1E-3-01
	6.35	RP501-ND	3.58	29.85	119.40	LEDS1E-4-01
	12.70	RP502-ND	3.96	33.00	131.98	LEDS1E-8-01
	15.75	RP503-ND	4.06	33.80	135.20	LEDS1E-10-01
	19.05	RP504-ND	4.13	34.40	137.60	LEDS1E-12-01
2	4.57	RP505-ND	4.29	35.75	143.00	LEDS2E-3-01
	6.35	RP506-ND	4.48	37.34	149.34	LEDS2E-4-01
	12.70	RP507-ND	4.86	40.48	161.92	LEDS2E-8-01
	15.75	RP508-ND	4.94	41.15	164.58	LEDS2E-10-01
	19.05	RP509-ND	5.01	41.75	167.00	LEDS2E-12-01

Hole Grommet

Features:
- Installs instantly
- **Material:** Flexible vinyl
- **Color:** Black

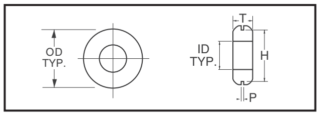

Dimensions (mm) ID	H	P	OD	T	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
3.05	4.57	1.52	7.87	6.35	RP450-ND	1.48	12.30	49.20	HG-2
3.81	6.35	1.52	9.40	6.35	RP451-ND	1.52	12.69	50.74	HG-2.5
4.57	7.87	.76	10.92	4.57	RP452-ND	1.67	13.92	55.68	HG-3
5.33	7.87	1.52	10.92	5.33	RP453-ND	1.86	15.52	62.06	HG-3.5
6.35	9.40	2.29	14.22	7.11	RP454-ND	2.05	17.10	68.38	HG-4
9.40	12.70	1.52	17.27	7.11	RP455-ND	3.42	28.49	113.94	HG-6
14.22	17.27	1.52	22.10	4.57	RP456-ND	4.33	36.09	144.36	HG-9
17.27	19.05	1.52	23.62	4.57	RP457-ND	4.79	39.88	159.50	HG-11

Richco

Liquid Tight Grommet

Features:

- Provides dust and watertight seal
- Conforms to IP67 standards
- Provides light strain relief
- Fits a variety of cable sizes

Fig. 1

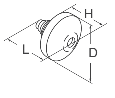

Fig. 2

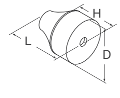

Fig.	Color	Material	Panel Hole (mm)	Panel Thick (mm)	Cable Size (mm)	Dimensions (mm) D	L	H	Digi-Key Part No.	Price Each 10	100	Richco Part No.
1	Black	RMS-153	12.5	0.5~2.0	3.0~5.0	19.8	17.0	7.1	RP740-ND	1.16	.97	LTG-199017
2	Gray	RMS-125	16.0	1.0~4.0	5.0~7.0	21.0	18.9	6.2	RP741-ND	2.14	1.43	LTG-39897
			19.0	1.0~4.0	7.0~10.0	23.9	19.6	6.1	RP742-ND	.71	.47	LTG-34715
			23.0	1.0~4.0	10.0~14.0	27.9	22.9	6.6	RP743-ND	3.01	2.01	LTG-34716
			29.0	1.0~4.0	14.0~20.0	35.8	24.4	6.6	RP744-ND	3.55	2.37	LTG-43021

Locking Circuit Board Supports

Features:

- Both ends lock by hand; no tools required
- Strong, dependable grip
- **Material:** Nylon 6/6
- **Color:** Natural

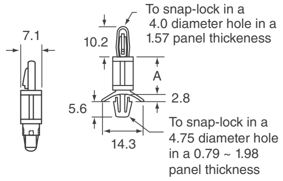
To snap-lock in a 4.0 diameter hole in a 1.57 panel thickeness
7.1
10.2
A
2.8
5.6
To snap-lock in a 4.75 diameter hole in a 0.79 ~ 1.98 panel thickness
14.3

Dim. A (mm)	Digi-Key Part No.	Pricing 10	100	500	1,000	Richco Part No.
4.57	RP425-ND	2.19	18.24	72.96	109.44	LCBS-3
6.35	RP426-ND	2.33	19.41	77.62	116.43	LCBS-4
9.40	RP428-ND	2.45	20.38	81.50	122.25	LCBS-6
10.92	RP429-ND	2.54	21.20	84.78	127.17	LCBS-7
12.70	RP430-ND	2.63	21.92	87.66	131.49	LCBS-8
15.75	RP431-ND	2.81	23.44	93.76	140.64	LCBS-10
19.05	RP432-ND	3.00	24.99	99.96	149.94	LCBS-12
25.40	RP434-ND	3.37	28.10	112.40	168.60	LCBS-16

Wire Saddle

Features:
Wire Saddles are ideal for routing wires or optical fiber. Wires can be easily inserted into the top side of the saddle to protect them from abrasion. The **Micro** is ideal for low profile applications and takes up very little real estate. The **MOFNSA** is designed to snap into a .125" diameter hole in a .093" thick panel for applications that require a thicker board than the standard 1/16" board.

Fig. 1 — Micro

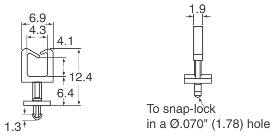

Fig. 2 — MOFNSA

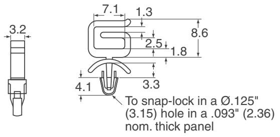
7.1
1.3
3.2
8.6
2.5
1.8
3.3
4.1
To snap-lock in a Ø.125" (3.15) hole in a .093" (2.36) nom. thick panel

Hole Dia. Inch (mm)	Panel Thickness Inch (mm)	Digi-Key Part No.	Price Each 10	100	500	Richco Part No.
Fig. 1 — Standoff Micro Wire Saddle						
.070 (1.75)	.062 (1.57)	RP738-ND	.32	.27	.21	SMWS-1-01
.070 (1.75)	.093 (2.36)	RP739-ND	.32	.27	.21	SMWS1-1-01
Fig. 2 — Mini Optical Fiber Network Saddle						
.125 (3.18)	.093 (2.36)	RP737-ND	.25	.21	.17	MOFNSA-2-01

Twist-Lok — TL Series

Features:

- Twist to secure wire bundles
- **Material:** Nylon 6/6, RMS-01
- **Color:** Natural

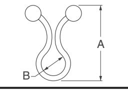

"A" Overall Height (mm)	"B" Wire Bundle Dia. (mm)	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
22.86	5.08 ~ 7.62	RP600-ND	2.67	9.14	54.83	TL-250
26.16	7.62 ~ 10.16	RP601-ND	2.85	9.77	58.64	TL-350
30.48	10.16 ~ 12.70	RP602-ND	3.07	10.54	63.22	TL-450
33.78	13.97 ~ 16.51	RP603-ND	3.21	11.00	65.99	TL-600
39.37	17.78 ~ 20.32	RP604-ND	3.73	12.78	76.68	TL-750
43.18	25.40 Maximum	RP605-ND	3.83	13.14	78.84	TL-950
55.63	30.23 Maximum	RP606-ND	5.19	17.80	106.78	TL-1125
68.07	36.58 Maximum	RP607-ND	6.18	21.18	127.08	TL-1375
74.42	39.62 Maximum	RP608-ND	7.67	26.29	157.75	TL-1500
87.63	45.97 Maximum	RP609-ND	8.13	27.88	167.29	TL-1750

Kurly-Lok On Base — KLB Series

Features:

- Adhesive backing, RMS-15
- **Material:** Nylon 6/6, RMS-01
- **Color:** Natural

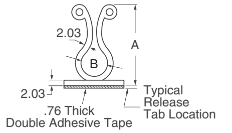

"A" Overall Height (mm)	"B" Wire Bundle Dia. (mm)	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
27.18	7.62 ~ 10.16	RP610-ND	12.04	41.27	247.61	KLB-350A-RT
31.24	10.16 ~ 12.70	RP611-ND	13.31	45.63	273.78	KLB-450A-RT
40.13	17.78 ~ 20.32	RP612-ND	13.99	47.95	287.71	KLB-750A-RT

Wire Cord Klip — WCK Series

Features:

- Adhesive backing for quick mounting
- **Material:** Nylon 6/6, RMS-01
- **Color:** Natural

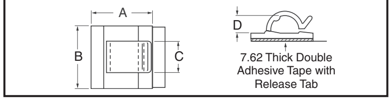

Hole Dia. (mm)	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
With Tape									
4.57	16.00	15.75	7.87	4.06	RP617-ND	13.31	45.65	273.89	WCK-180-01A-RT
11.43	25.15	25.15	11.94	7.11	RP618-ND	23.37	80.13	480.78	WCK-460-01A-RT
18.29	25.40	25.40	12.70	13.46	RP619-ND	29.06	99.64	597.82	WCK-720-01A-RT
Without Tape									
18.29	25.40	25.40	12.70	13.46	RP622-ND	24.01	82.33	493.96	WCK-720-01

Strain Relief Bushings — SRB-F and SRB-R Series

Features:

- Bushing eliminates strain and wear on wires and cords
- Withstands temperatures to 150°F (65°C)
- **Material:** Nylon 6/6, RMS-40
- **Color:** Black

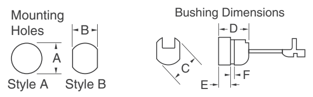

Digi-Key Part No.	Approx. Wire Size (mm)	Mounting Holes (mm) Style A	Style B	Bushing Dimensions (mm) C	D	E	F*
RP461-ND	2.79 x 5.33 2.29 x 4.57	9.52	8.76	10.79	10.41	3.94	1.57
RP462-ND	4.09 x 7.62 3.81 x 7.11	13.08 12.70	11.81	14.48	12.70	4.34	2.54
RP463-ND	4.06 x 9.40 3.81 x 8.64 5.08 x 9.40 4.57 x 8.89	14.27	13.46	15.49	15.24	6.10	3.30
RP464-ND	4.83 x 7.62 3.81 x 7.11 4.06 x 7.62	12.70	11.58	13.84	10.19	3.61	1.80
RP465-ND	6.35 6.73 7.37 6.86	12.70 13.08 13.08 12.70	11.81	14.22	10.92	4.19	2.54
RP466-ND	8.25 7.62 9.02 8.38	16.66 17.45	14.48	18.45	17.27	6.98	3.18

* Maximum Panel Thickness

Digi-Key Part No.	Pricing 25	100	1,000	5,000	Richco Part No.
RP461-ND	10.54	36.12	216.72	174.58/M	SRB-F-2
RP462-ND	4.00	13.73	82.37	66.36/M	SRB-F-4
RP463-ND	13.35	45.78	274.68	221.27/M	SRB-F-5
RP464-ND	3.26	11.18	67.10	54.06/M	SRB-F-7
RP465-ND	3.64	12.49	74.92	60.35/M	SRB-R-5
RP466-ND	8.09	27.73	166.36	134.01/M	SRB-R-6
RPSRPL-ND	SRB Pincher Tool...................................... $95.43/1				SRPL-2

C-Type Flat Cable Clamps — CFCC Series

Features:

- Designed for routing flat ribbon cable
- Serrated grip to prevent slippage
- Adhesive backing for quick mount in any direction
- **Material:** Noryl-White, RMS-05; PVC-Gray, RMS-04

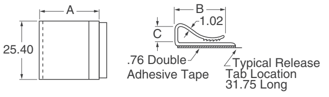

Material	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
Noryl-White	14.27	12.45	4.57	RP391-ND	11.89	40.76	244.58	CFCC-3-05A-RT
	14.27	10.16	6.35	RP392-ND	15.09	51.73	310.39	CFCC-4-05A-RT
	26.97	22.35	6.35	RP393-ND	18.83	64.56	387.36	CFCC-8-05A-RT
Rigid PVC-Gray	26.97	22.35	6.35	RP394-ND	14.53	49.80	298.80	CFCC-8-04A-RT

Richco Cable Clamps — N Series

Features:
- **Material:** Nylon 6/6, RMS-01
- **Colors:** Natural and Black

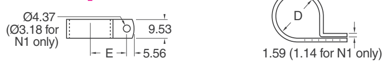

Description	Dimensions (mm) D	E	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
Black, RMS-49	1.60	6.86	RP322-ND	1.66	5.69	34.16	N-1-BK
	3.18	8.33	RP323-ND	1.69	5.81	34.85	N-2-BK
	4.78	9.91	RP324-ND	1.94	6.67	40.00	N-3-BK
	6.35	10.69	RP325-ND	2.02	6.93	41.58	N-4-BK
	7.95	11.51	RP326-ND	2.04	7.00	42.01	N-5-BK
	9.52	12.29	RP327-ND	2.22	7.60	45.58	N-6-BK
	11.13	11.99	RP328-ND	2.30	7.88	47.30	N-7-BK
	12.70	14.27	RP329-ND	2.33	7.98	47.88	N-8-BK
Natural, RMS-01	1.60	6.86	RP314-ND	1.85	6.33	37.98	N-1
	3.18	8.33	RP315-ND	1.88	6.46	38.74	N-2
	4.78	9.91	RP316-ND	2.16	7.40	44.42	N-3
	6.35	10.69	RP317-ND	2.24	7.69	46.15	N-4
	7.95	11.51	RP318-ND	2.27	7.79	46.73	N-5
	9.52	12.29	RP319-ND	2.56	8.78	52.70	N-6.173
	11.13	11.99	RP320-ND	2.56	8.77	52.60	N-7
	12.70	14.27	RP321-ND	2.58	8.86	53.17	N-8

Hanking Ties

Features:
- Wrap electrical cords for shipping and packaging
- **Material:** Polyethylene
- **Color:** Natural

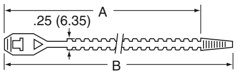

Max. Bundle Diameter Inch (mm)	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Per Package 100	1,000	Richco Part No.
.9 (22.86)	3.2 (81.28)	3.9 (99.06)	RP701-ND◆	21.38	128.30	HT-3.9
1.4 (35.56)	5.2 (132.08)	5.9 (149.86)	RP703-ND	26.87	161.24	HT-5.9

◆ *RoHS Compliant*

Wrap-It-Ties

Features:
- Easy to use permanent lock
- Strong, one-piece construction
- Serviceable to 185°F (85°C)
- UL recognized #E71558

Wire Tie Gun

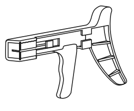

RPWTA-ND $13.07

Economy Installation Tool

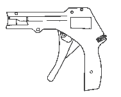

RPWTG-ND $57.11

† *Replace □ with "C" for package of 100, "M" for package of 1,000.*

Max. Bundle Diameter (in.)	Approx. Length (in.)	Min. Loop Tensile Strength (lbs.)	Approx. Width (in.)	Color	Digi-Key† Part No.	Package Size		Richco Part No.
						Price Per Pkg. C = 100	Price Per Pkg. M = 1000	
Nylon 6/6								
0.6	3.25	18	.10	Natural	RP101□-ND	2.89	16.52	WIT-18SF
0.6	3.25	18	.10	Red	RP101RDM-ND	—	18.07	WIT-18SF-RD
0.7	4.5	18	.10	Natural	RP102□-ND	3.22	18.36	WIT-18R
0.7	4.5	18	.10	Blue	RP102BL□-ND	3.29	18.76	WIT-18R-BL
0.7	4.5	18	.10	Green	RP102GN□-ND	4.89	18.76	WIT-18R-GN
0.7	4.5	18	.10	Red	RP102RD□-ND	3.29	18.76	WIT-18R-RD
0.7	4.5	18	.10	Yellow	RP102YL□-ND	3.29	18.76	WIT-18R-YL
1.3	5.75	18	.10	Natural	RP213□-ND	3.86	22.03	WIT-18L
2.1	8.0	18	.10	Natural	RP103□-ND	5.01	28.66	WIT-18V
1.2	5.75	30	.14	Natural	RP104□-ND	6.04	34.52	WIT-30R
1.2	5.75	30	.14	Blue	RP104BL□-ND	6.57	35.24	WIT-30R-BL
1.2	5.75	30	.14	Green	RP104GN□-ND	9.00	35.24	WIT-30R-GN
1.2	5.75	30	.14	Red	RP104RD□-ND	5.87	35.24	WIT-30R-RD
1.2	5.75	30	.14	Yellow	RP104YL□-ND	6.17	35.24	WIT-30R-YL
1.8	7.3	30	.14	Natural	RP105□-ND	6.49	37.08	WIT-30L
1.8	7.3	30	.14	Green	RP105GNC-ND	9.62	—	WIT-30L-GN
1.8	7.3	30	.14	Yellow	RP105YLC-ND	7.16	—	WIT-30L-YL
0.7	4.5	40	.14	Natural	RP214□-ND	5.98	33.41	WIT-40S
1.2	5.75	40	.14	Natural	RP106□-ND	7.01	40.03	WIT-40R
1.2	5.75	40	.14	Blue	RP106BL□-ND	7.70	39.10	WIT-40R-BL
1.2	5.75	40	.14	Green	RP106GN□-ND	7.70	39.10	WIT-40R-GN
1.2	5.75	40	.14	Red	RP106RDC-ND	7.70	—	WIT-40R-RD
1.2	5.75	40	.14	Yellow	RP106YL□-ND	7.70	35.60	WIT-40R-YL
1.8	7.3	40	.14	Natural	RP107□-ND	8.74	49.93	WIT-40L
1.8	7.3	40	.14	Green	RP107GN□-ND	9.59	48.71	WIT-40L-GN
1.8	7.3	40	.14	Red	RP107RD□-ND	9.59	48.71	WIT-40L-RD
3.1	11.1	40	.15	Natural	RP215□-ND	15.17	86.65	WIT-40VL
1.5	6.0	50	.19	Natural	RP108□-ND	7.13	40.75	WIT-50S
1.5	6.0	50	.19	Green	RP108GNC-ND	7.84	—	WIT-50S-GN
1.5	6.0	50	.19	Red	RP108RDC-ND	7.84	—	WIT-50S-RD
1.5	6.0	50	.19	Yellow	RP108YLC-ND	10.69	—	WIT-50S-YL
2.0	8.0	50	.19	Natural	RP109□-ND	8.09	46.26	WIT-50R
2.0	8.0	50	.19	Blue	RP109BL□-ND	8.44	48.20	WIT-50R-BL
2.0	8.0	50	.19	Green	RP109GN□-ND	8.44	48.20	WIT-50R-GN
2.0	8.0	50	.19	Red	RP109RD□-ND	12.31	48.20	WIT-50R-RD
2.0	8.0	50	.19	Yellow	RP109YL□-ND	8.44	48.20	WIT-50R-YL
4.5	15.3	50	.18	Natural	RP110□-ND	14.46	82.62	WIT-50L
2.7	10.7	60	.18	Natural	RP216□-ND	12.47	71.24	WIT-60R
4.2	15.06	120	.30	Natural	RP111C-ND	34.07	—	WIT-120R
UV Stabilized Nylon 6/6 – Exterior or Outdoor Use								
0.6	3.25	18	.10	Black	RP201□-ND	3.22	18.36	WIT-18SF-UVB
0.7	4.5	18	.10	Black	RP202□-ND	3.53	20.20	WIT-18R-UVB
2.1	8.0	18	.10	Black	RP203M-ND	—	31.21	WIT-18V-UVB
1.2	5.75	30	.14	Black	RP204□-ND	6.68	38.20	WIT-30R-UVB
1.8	7.3	30	.14	Black	RP205□-ND	7.20	41.11	WIT-30L-UVB
1.2	5.75	40	.14	Black	RP206□-ND	8.64	44.06	WIT-40R-UVB
1.8	7.3	40	.14	Black	RP207□-ND	9.58	54.72	WIT-40L-UVB
1.5	6.0	50	.19	Black	RP208□-ND	7.84	44.78	WIT-50S-UVB
2.0	8.0	50	.19	Black	RP209□-ND	8.93	51.05	WIT-50R-UVB
4.5	15.3	50	.18	Black	RP210□-ND	15.94	91.08	WIT-50L-UVB
4.2	15.06	120	.30	Black	RP211C-ND	37.08	—	WIT-120R-UVB
Nylon 6/6, Size 10 — Screw Mount								
1.5	6.75	50	.19	Natural	RP224□-ND	—	94.00	WITSH-10-50MS
2	8.69	50	.19	Natural	RP225□-ND	18.55	109.08	WITSH-10-50MRL
3	11.25	50	.19	Natural	RP226□-ND	21.69	112.36	WITSH-10-50MR
Nylon 6/6, Release Tab								
1.25	5.5	40	.21	Natural	RP217□-ND	—	87.98	WIT-RT-0550
2	8.0	40	.21	Natural	RP218□-ND	16.97	96.98	WIT-RT-0800
2.5	10.5	40	.21	Natural	RP219□-ND	29.75	146.59	WIT-RT-1050

Max. Bundle Diameter (in.)	Approx. Length (in.)	Min. Loop Tensile Strength (lbs.)	Approx. Width (in.)	Color	Digi-Key Part No.	Pricing 25	100	Richco Part No.
Nylon 6/6, Release Tab (Large Size)								
4	15.25	250	.52	Natural	RP221-ND	40.41	138.56	WIT-RT-1525
6	21.5	250	.52	Natural	RP222-ND	46.20	158.39	WIT-RT-2150
8	27.75	250	.52	Natural	RP223-ND	54.32	186.24	WIT-RT-2775

Beaded Ties

Features: • Easy to install and release • **Material:** Nylon 6/6 • **Color:** Natural

Fig. 1

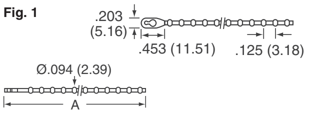

Fig. 2

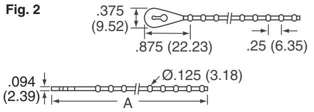

Fig.	Dim "A" (approx.) Inch (mm)	Digi-Key Part No.	Price Per Package 100	1,000	Richco Part No.
1	4.0 (101.60)	RP731-ND	8.50	50.98	BT-4-01-NT
	6.0 (152.40)	RP733-ND	14.84	89.06	BT-6-01-NT
2	8.75 (222.25)	RP734-ND	20.56	123.37	BT-8-01-NT
	10.75 (273.05)	RP735-ND	25.66	153.97	BT-10-01-NT
	12.75 (323.85)	RP736-ND	29.28	175.68	BT-12-01-NT

Molded Nylon Insulators —

MNI Series

Features: • Use as screw insulators and in many bushing applications • Lightweight • High dielectric strength • Resistant to corrosion and abrasion • **Material:** Nylon 6/6, RMS-48 • **Color:** Natural

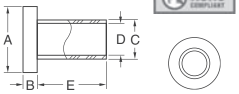

Screw Size	Approx. Met. Equiv.	Dimensions (Inch) A	B	C	D	E	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
#2	M2.2	.181	.047	.120	.090	.031	RP330-ND	5.83	20.00	120.02	MNI #2-2
#4	M3	.235	.047	.145	.115	.031	RP337-ND	5.83	20.00	120.02	MNI #4-2
		.252	.047	.140	.115	.046	RP338-ND	5.83	20.00	120.02	MNI #4-3
		.235	.047	.145	.115	.063	RP339-ND	5.83	20.00	120.02	MNI #4-4
		.252	.047	.140	.115	.084	RP340-ND	5.83	20.00	120.02	MNI #4-5
		.252	.047	.140	.115	.093	RP341-ND	5.83	20.00	120.02	MNI #4-6
		.235	.047	.145	.115	.125	RP342-ND	5.83	20.00	120.02	MNI #4-8
		.252	.047	.140	.115	.156	RP343-ND	5.83	20.00	120.02	MNI #4-10
		.235	.047	.145	.115	.187	RP344-ND	5.83	20.00	120.02	MNI #4-12
		.252	.047	.140	.115	.250	RP345-ND	5.83	20.00	120.02	MNI #4-16
		.235	.047	.145	.115	.375	RP346-ND	5.83	20.00	120.02	MNI #4-24
#5	M3	.370	.050	.236	.126	.050	RP347-ND	7.10	24.34	146.05	MNI #5.3
#6	M3.5	.290	.047	.170	.140	.031	RP348-ND	5.84	20.03	120.20	MNI #6-2
		.290	.047	.170	.140	.063	RP349-ND	5.84	20.03	120.20	MNI #6-4
		.290	.047	.170	.140	.093	RP350-ND	5.84	20.03	120.20	MNI #6-6
		.290	.047	.170	.140	.125	RP351-ND	5.84	20.03	120.20	MNI #6-8
		.290	.047	.170	.140	.187	RP352-ND	5.84	20.03	120.20	MNI #6-12
		.300	.047	.170	.138	.250	RP353-ND	5.84	20.03	120.20	MNI #6-16
		.290	.047	.170	.140	.375	RP354-ND	5.84	20.03	120.20	MNI #6-24
		.290	.047	.170	.140	.500	RP355-ND	5.17	19.08	114.48	MNI #6-32
#8	M4	.344	.063	.205	.173	.031	RP356-ND	6.13	21.02	126.11	MNI #8-2
		.344	.063	.205	.173	.063	RP357-ND	6.13	21.02	126.11	MNI #8-4
		.344	.063	.205	.173	.093	RP358-ND	6.13	21.02	126.11	MNI #8-6
		.344	.063	.205	.173	.125	RP359-ND	6.13	21.02	126.11	MNI #8-8
		.344	.063	.205	.173	.187	RP360-ND	6.13	21.02	126.11	MNI #8-12
		.344	.063	.205	.173	.250	RP361-ND	6.13	21.02	126.11	MNI #8-16
		.344	.063	.205	.173	.375	RP362-ND	6.13	21.02	126.11	MNI #8-24
		.344	.063	.205	.173	.500	RP363-ND	6.13	21.02	126.11	MNI #8-32
#10	M5	.399	.063	.260	.200	.063	RP365-ND	6.38	21.88	131.26	MNI #10-4
		.399	.063	.260	.200	.125	RP367-ND	6.38	21.88	131.26	MNI #10-8
		.399	.063	.260	.200	.187	RP368-ND	6.38	21.88	131.26	MNI #10-12
		.399	.063	.260	.200	.250	RP369-ND	6.38	21.88	131.26	MNI #10-16
		.399	.063	.260	.200	.375	RP370-ND	6.38	21.88	131.26	MNI #10-24
		.399	.063	.260	.200	.500	RP371-ND	6.38	21.88	131.26	MNI #10-32
1/4	M6	.513	.065	.312	.260	.093	RP378-ND	7.20	24.70	148.18	MNI 1/4-6
		.513	.065	.312	.260	.125	RP379-ND	6.86	23.52	141.12	MNI 1/4-8
		.513	.065	.312	.260	.187	RP380-ND	6.86	23.52	141.12	MNI 1/4-12
		.535	.065	.315	.260	.375	RP382-ND	7.20	24.70	148.18	MNI 1/4-24
		.513	.065	.312	.260	.500	RP383-ND	7.20	24.70	148.18	MNI 1/4-32
5/16	M8	.620	.063	.360	.320	.031	RP384-ND	7.17	24.58	147.49	MNI 5/16-2
		.620	.063	.360	.320	.063	RP385-ND	7.17	24.58	147.49	MNI 5/16-4
		.620	.063	.360	.320	.093	RP386-ND	7.53	25.81	154.84	MNI 5/16-6
		.620	.063	.360	.320	.125	RP387-ND	7.17	24.58	147.49	MNI 5/16-8
		.620	.063	.360	.320	.250	RP389-ND	7.53	25.81	154.84	MNI 5/16-16

Wire Ties and Accessories

Fig. 1

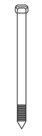

Fig. 2

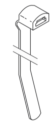

Fig. 3

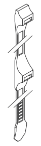

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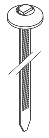

Fig. 5

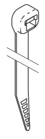

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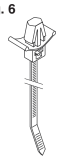

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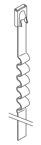

Fig. 8

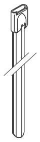

Fig. 9

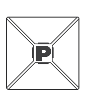

Fig. 10

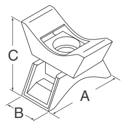

Fig. 11

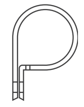

Fig. 12

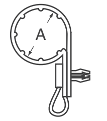

Fig. 13

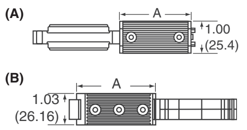

Fig. 14

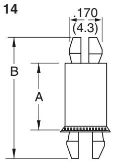

Fig. 15

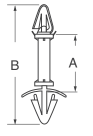

Fig. 16

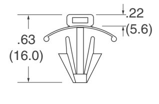

Fig. 17

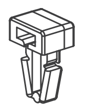

Fig. 18

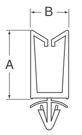

Fig. 19

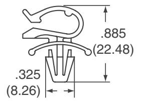

Fig. 20

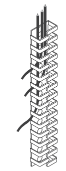

Fig. 21

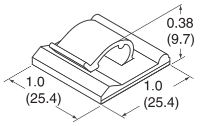

Fig. 22

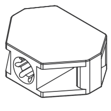

Fig. 23

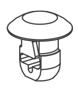

Fig.	Min. Loop Tensile Strength (Lbs)	Length Inch (mm)	Width Inch (mm)	Max. Bundle Diameter Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
PAN-TY® Clamp Tie With Mounting Hole – Nylon — RoHS Compliant								
1	18	4.3 (109.2)	0.100 (2.5)	0.75 (19.1)	298-1000-ND	100	34.03	PLC1M-S4-C
	40	6.1 (154.9)	0.135 (3.4)	1.25 (31.8)	298-1001-ND	100	34.21	PLC1.5I-S8-C
	50	7.9 (200.7)	0.190 (4.8)	1.84 (46.7)	298-1002-ND	100	36.20	PLC2S-S10-C
	50	12.0 (304.8)	0.190 (4.8)	3.00 (76.2)	298-1003-ND	100	83.59	PLC3S-S10-C
	50	15.0 (381.0)	0.190 (4.8)	4.00 (101.6)	298-1004-ND	100	94.50	PLC4S-S10-C
PAN-TY Clamp Tie With Mounting Hole - Weather Resistant – Black — RoHS Compliant								
1	18	4.3 (109.2)	0.100 (2.5)	0.75 (19.1)	298-1005-ND	100	60.61	PLC1M-S4-C0
	40	6.1 (154.9)	0.135 (3.4)	1.25 (31.8)	298-1006-ND	100	43.67	PLC1.5I-S8-C0
	50	7.9 (200.7)	0.190 (4.8)	1.84 (46.7)	298-1007-ND	100	45.46	PLC2S-S10-C0
	50	12.0 (304.8)	0.190 (4.8)	3.00 (76.2)	298-1008-ND	100	96.91	PLC3S-S10-C0
	50	15.0 (381.0)	0.190 (4.8)	4.00 (101.6)	298-1009-ND	100	109.28	PLC4S-S10-C0
PAN-TY Locking Clamp Tie – Nylon — RoHS Compliant								
1	50	7.9 (200.7)	.190 (4.8)	1.84 (47)	298-9973-ND	100	45.46	PLC2S-S6-C0
PAN-TY Cable Tie – Nylon — RoHS Compliant								
1	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1016-ND	100	13.64	PLT.6SM-C
	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1017-ND	1,000	28.38	PLT.6SM-M
	18	3.1 (78.7)	0.090 (2.3)	0.68 (17.3)	298-1018-ND	100	14.27	PLT.7M-C
	18	3.1 (78.7)	0.090 (2.3)	0.68 (17.3)	298-1019-ND	1,000	26.99	PLT.7M-M
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1020-ND	100	15.35	PLT1M-C
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1021-ND	1,000	30.83	PLT1M-M
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1022-ND	100	17.78	PLT1.5I-C
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1023-ND	1,000	47.57	PLT1.5I-M
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1024-ND	100	19.99	PLT1.5M-C
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1025-ND	1,000	46.55	PLT1.5M-M
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1030-ND	100	22.67	PLT2S-C
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1031-ND	1,000	65.06	PLT2S-M
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1026-ND	100	27.05	PLT2I-C
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1027-ND	1,000	61.85	PLT2I-M
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1028-ND	100	21.37	PLT2M-C
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1029-ND	1,000	47.25	PLT2M-M
	40	11.4 (289.6)	0.145 (3.7)	3.00 (76.2)	298-1032-ND	100	33.03	PLT3I-C
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1033-ND	100	45.33	PLT3S-C
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1034-ND	1,000	169.31	PLT3S-M
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1035-ND	100	51.60	PLT4S-C
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1036-ND	1,000	189.20	PLT4S-M
	50	17.5 (445.0)	0.190 (4.8)	5.00 (127.0)	298-1360-ND	100	77.42	PLT5S-C
	50	17.5 (445.0)	0.190 (4.8)	5.00 (127.0)	298-1361-ND	1,000	267.69	PLT5S-M
	120	21.9 (556.0)	0.300 (7.6)	6.00 (152.0)	298-1366-ND	100	76.68	PLT6LH-L
	120	21.9 (556.0)	0.300 (7.6)	6.00 (152.0)	298-1367-ND	100	59.69	PLT6LH-C
	120	24.7 (627.0)	0.300 (7.6)	7.00 (178.0)	298-1368-ND	50	65.15	PLT7LH-L
	120	24.7 (627.0)	0.300 (7.6)	7.00 (178.0)	298-1369-ND	50	50.94	PLT7LH-C
	120	27.6 (701.0)	0.300 (7.6)	8.00 (203.0)	298-1373-ND	100	124.40	PLT8LH-C
PAN-TY Cable Tie High Temperature – Poly — RoHS Compliant								
1	150	7.4 (188)	.190 (4.8)	1.88 (48)	298-9956-ND	1,000	1103.70	PLT2S-M71
CONTOUR-TY™ Cable Tie – Nylon — RoHS Compliant								
2	18	4.1 (104)	0.100 (2.5)	1.00 (25.4)	298-9908-ND	1,000	35.46	CBR1M-M
	40	5.9 (150)	0.140 (3.6)	1.50 (38.1)	298-9904-ND	1,000	54.74	CBR1.5I-M
	18	7.2 (183)	0.100 (2.5)	2.00 (50.8)	298-9912-ND	1,000	54.38	CBR2M-M
	50	7.6 (193)	0.190 (4.8)	2.00 (50.8)	298-9914-ND	1,000	74.78	CBR2S-M
2	85	8.0 (203)	0.250 (6.4)	2.00 (50.8)	298-9910-ND	500	147.34	CBR2HS-D
	40	10.4 (264)	0.140 (3.6)	3.00 (76.2)	298-9916-ND	1,000	149.88	CBR3I-M
	50	10.8 (274)	0.190 (4.8)	3.00 (76.2)	298-9918-ND	1,000	194.81	CBR3S-M
	120	14.6 (371)	0.300 (7.6)	4.00 (101.6)	298-9922-ND	250	151.94	CBR4LH-TL
	120	20.9 (531)	0.300 (7.6)	6.00 (152.4)	298-9926-ND	100	97.59	CBR6LH-C
Double Hose Clamp – Nylon — RoHS Compliant								
3	100	11.0 (279)	.280 (7.1)	1.12 (28.4)†	298-9962-ND	50	64.86	DHC1.12X1.75-D0
CONTOUR-TY Cable Tie - Weather Resistant – Black — RoHS Compliant								
2	18	4.1 (104)	0.100 (2.5)	1.00 (25.4)	298-9909-ND	1,000	55.55	CBR1M-M0
	18	5.6 (142)	0.100 (2.5)	1.50 (38.1)	298-9907-ND	1,000	76.91	CBR1.5M-M0
	40	5.9 (150)	0.140 (3.6)	1.50 (38.1)	298-9905-ND	1,000	73.94	CBR1.5I-M0
	18	7.2 (183)	0.100 (2.5)	2.00 (50.8)	298-9913-ND	1,000	80.34	CBR2M-M0
	50	7.6 (193)	0.190 (4.8)	2.00 (50.8)	298-9915-ND	1,000	83.51	CBR2S-M0
	50	10.8 (274)	0.190 (4.8)	3.00 (76.2)	298-9919-ND	1,000	231.48	CBR3S-M0
	40	13.6 (345)	0.140 (3.6)	4.00 (101.6)	298-9921-ND	1,000	309.35	CBR4I-M0
	50	14.0 (356)	0.190 (4.8)	4.00 (101.6)	298-9925-ND	1,000	245.81	CBR4S-M0
	120	14.6 (371)	0.300 (7.6)	4.00 (101.6)	298-9923-ND	250	174.42	CBR4LH-TL0
	120	20.9 (531)	0.300 (7.6)	6.00 (152.4)	298-9927-ND	100	118.90	CBR6LH-C0
STA-STRAP® Panel Mount Tie – Nylon — RoHS Compliant								
4	120	10.1 (257)	.300 (7.6)	2.76 (70)	298-9963-ND	50	65.24	SSPM2.5HP-L300
	120	14.8 (376)	.300 (7.6)	4.0 (102)	298-9964-ND	50	83.26	SSPM4HP-L300
SUPER-GRIP™ Cable Tie – Nylon — RoHS Compliant								
5	18	4.2 (106)	0.118 (3.0)	1.00 (25)	298-9928-ND	100	15.51	SG100M-C
	18	4.2 (106)	0.118 (3.0)	1.00 (25)	298-9930-ND	1,000	31.44	SG100M-M
	40	6.2 (157)	0.168 (4.3)	1.50 (38)	298-9934-ND	1,000	48.08	SG150I-M
	50	8.3 (211)	0.225 (5.7)	2.00 (51)	298-9936-ND	100	22.67	SG200S-C
	50	8.3 (211)	0.225 (5.7)	2.00 (51)	298-9938-ND	1,000	65.04	SG200S-M
	70	12.4 (315)	0.225 (5.7)	3.20 (81)	298-9940-ND	100	46.25	SG300S-C
	70	12.4 (315)	0.225 (5.7)	3.20 (81)	298-9942-ND	1,000	172.68	SG300S-M
	120	15.3 (389)	0.330 (8.4)	4.13 (105)	298-9944-ND	50	39.74	SG350LH-L
	120	15.3 (389)	0.330 (8.4)	4.13 (105)	298-9946-ND	250	132.18	SG350LH-TL
	70	15.3 (389)	0.225 (5.7)	4.20 (107)	298-9948-ND	100	52.12	SG370S-C
	70	15.3 (389)	0.225 (5.7)	4.20 (107)	298-9950-ND	1,000	192.99	SG370S-M
SUPER-GRIP Cable Tie - Weather Resistant – Black — RoHS Compliant								
5	18	4.2 (106)	0.118 (3.0)	1.00 (25)	298-9929-ND	100	20.35	SG100M-C0
	18	4.2 (106)	0.118 (3.0)	1.00 (25)	298-9931-ND	1,000	49.23	SG100M-M0
	40	6.2 (157)	0.168 (4.3)	1.50 (38)	298-9933-ND	100	22.05	SG150I-C0
	50	8.3 (211)	0.225 (5.7)	2.00 (51)	298-9937-ND	100	24.22	SG200S-C0
	50	8.3 (211)	0.225 (5.7)	2.00 (51)	298-9939-ND	1,000	72.63	SG200S-M0
	70	12.4 (315)	0.225 (5.7)	3.20 (81)	298-9941-ND	100	49.56	SG300S-C0
	70	12.4 (315)	0.225 (5.7)	3.20 (81)	298-9943-ND	1,000	205.19	SG300S-M0
	120	15.3 (389)	0.330 (8.4)	4.13 (105)	298-9945-ND	50	43.20	SG350LH-L0

◆ ***RoHS Compliant***

* VELCRO is a registered trademark of the Velcro Companies † See datasheet for additional dimensions *(Continued)*

Fig.	Min. Loop Tensile Strength (Lbs)	Length Inch (mm)	Width Inch (mm)	Max. Bundle Diameter Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
5	70	15.3 (389)	0.225 (5.7)	4.20 (107)	298-9949-ND	100	55.74	SG370S-C0
	70	15.3 (389)	0.225 (5.7)	4.20 (107)	298-9951-ND	1,000	218.06	SG370S-M0
	175	18.6 (471)	0.380 (9.7)	5.20 (132)	298-9953-ND	100	92.15	SG450H-C0
PAN-TY Push Mount – Nylon — RoHS Compliant								
1	40	6.1 (156.0)	0.135 (3.4)	1.25 (32.0)	298-1357-ND	1,000	157.97	PLP1.5I-M
	50	7.9 (200.0)	0.180 (4.6)	1.75 (45.0)	298-1358-ND	100	40.81	PLP2S-C
	50	7.9 (200.0)	0.180 (4.6)	1.75 (45.0)	298-1359-ND	1,000	184.58	PLP2S-M
PAN-TY Wing Push Mount – Nylon — RoHS Compliant								
6	18	4.3 (109.0)	0.098 (2.5)	0.87 (22.0)	298-1351-ND	100	33.08	PLWP1M-C
	18	4.3 (109.0)	0.098 (2.5)	0.87 (22.0)	298-1352-ND	500	94.96	PLWP1M-D
	50	5.2 (132.0)	0.190 (4.8)	1.00 (25.0)	298-1353-ND	100	39.65	PLWP1S-C
	40	6.0 (152.0)	0.135 (3.4)	1.25 (32.0)	298-1349-ND	100	37.45	PLWP1.5I-C
	40	6.0 (152.0)	0.135 (3.4)	1.25 (32.0)	298-1350-ND	500	101.90	PLWP1.5I-D
	50	7.8 (198.0)	0.190 (4.8)	1.75 (45.0)	298-1355-ND	100	45.67	PLWP2S-C
	50	7.8 (198.0)	0.190 (4.8)	1.75 (45.0)	298-1356-ND	500	110.17	PLWP2S-D
PAN-TY Wing Push Mount Offset – Nylon — RoHS Compliant								
6	50	6.97 (177)	.190 (4.8)	1.57 (40)	298-9957-ND	50	16.50	PLUP40SE-D
PAN-TY Cable Tie - Weather Resistant – Black — RoHS Compliant								
1	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1037-ND	100	18.79	PLT.6SM-C0
	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1038-ND	1,000	40.50	PLT.6SM-M0
	18	3.1 (78.7)	0.090 (2.3)	0.68 (17.3)	298-1039-ND	1,000	37.33	PLT.7M-M0
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1040-ND	100	20.13	PLT1M-C0
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1041-ND	1,000	48.27	PLT1M-M0
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1042-ND	100	21.86	PLT1.5I-C0
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1043-ND	1,000	64.31	PLT1.5I-M0
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1044-ND	100	23.02	PLT1.5M-C0
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1045-ND	1,000	66.90	PLT1.5M-M0
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1050-ND	100	24.22	PLT2S-C0
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1051-ND	1,000	72.63	PLT2S-M0
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1046-ND	100	32.54	PLT2I-C0
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1047-ND	1,000	88.07	PLT2I-M0
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1048-ND	100	28.69	PLT2M-C0
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1049-ND	1,000	71.70	PLT2M-M0
	40	11.4 (289.6)	0.145 (3.7)	3.00 (76.2)	298-1052-ND	100	44.13	PLT3I-C0
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1053-ND	100	48.60	PLT3S-C0
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1054-ND	1,000	201.18	PLT3S-M0
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1055-ND	100	54.11	PLT4S-C0
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1056-ND	1,000	213.78	PLT4S-M0
	50	17.5 (445.0)	0.190 (4.8)	5.00 (127.0)	298-1362-ND	100	85.78	PLT5S-C0
	50	17.5 (445.0)	0.190 (4.8)	5.00 (127.0)	298-1363-ND	1,000	341.31	PLT5S-M0
	120	21.9 (556.0)	0.300 (7.6)	6.00 (152.0)	298-1364-ND	50	65.48	PLT6LH-L0
	120	21.9 (556.0)	0.300 (7.6)	6.00 (152.0)	298-1365-ND	100	84.53	PLT6LH-C0
	120	27.6 (701.0)	0.300 (7.6)	8.00 (203.0)	298-1374-ND	100	130.46	PLT8LH-L0
	120	27.6 (701.0)	0.300 (7.6)	8.00 (203.0)	298-1375-ND	100	99.33	PLT8LH-C0
BOW-TY® Cable Tie Two Loop – Nylon — RoHS Compliant								
1	50	7.6 (193)	.190 (4.8)	1.8 (45.7)	298-9958-ND	100	53.56	PLB2S-C0
	50	11.8 (300)	.190 (4.8)	3.0 (76.2)	298-9959-ND	100	56.52	PLB3S-C0
	50	14.8 (376)	.190 (4.8)	4.1 (104.1)	298-9960-ND	1,000	285.21	PLB4S-M0
BOW-TY Cable Tie Three Loop – Nylon — RoHS Compliant								
1	125	20.0 (508)	.500 (12.7)	5.0 (127.0)	298-9961-ND	100	294.57	PL3B5EH-C0
BARB-TY® Cable Tie — Nylon Tie With Metal Clip								
1	18	4.0 (101.6)	0.095 (2.4)	0.90 (22.9)	298-1063-ND	100	15.55	BT1M-C
	40	6.1 (154.9)	0.141 (3.6)	1.50 (38.1)	298-1064-ND◆	100	17.94	BT1.5I-C
	18	6.1 (154.9)	0.095 (2.4)	1.50 (38.1)	298-1071-ND◆	100	20.81	BT1.5M-C
	18	7.7 (195.6)	0.095 (2.4)	2.00 (50.8)	298-1072-ND◆	100	21.81	BT2M-C
	40	8.0 (203.2)	0.141 (3.6)	2.00 (50.8)	298-1065-ND◆	100	27.05	BT2I-C
	50	8.0 (203.2)	0.185 (4.7)	2.00 (50.8)	298-1068-ND◆	100	22.67	BT2S-C
	40	11.1 (281.9)	0.141 (3.6)	3.00 (76.2)	298-1066-ND◆	100	33.35	BT3I-C
	18	14.0 (355.6)	0.095 (2.4)	4.00 (101.6)	298-1074-ND◆	100	31.47	BT4M-C
	40	14.3 (363.2)	0.141 (3.6)	4.00 (101.6)	298-1067-ND◆	100	47.06	BT4I-C
	120	24.4 (619.8)	0.275 (7.0)	7.00 (177.8)	298-1077-ND◆	50	65.78	BT7LH-L
	120	27.5 (698.5)	0.275 (7.0)	8.00 (203.2)	298-1078-ND◆	50	79.66	BT8LH-L
BARB-TY Cable Tie - Weather Resistant Tie With Metal Clip – Black — RoHS Compliant								
1	18	4.0 (101.6)	0.095 (2.4)	0.90 (22.9)	298-1080-ND	100	20.37	BT1M-C0
	40	6.1 (154.9)	0.141 (3.6)	1.50 (38.1)	298-1081-ND	100	22.05	BT1.5I-C0
	18	6.1 (154.9)	0.095 (2.4)	1.50 (38.1)	298-1088-ND	100	24.37	BT1.5M-C0
	18	7.7 (195.6)	0.095 (2.4)	2.00 (50.8)	298-1089-ND	100	27.46	BT2M-C0
	40	8.0 (203.2)	0.141 (3.6)	2.00 (50.8)	298-1082-ND	100	32.50	BT2I-C0
	50	8.0 (203.2)	0.185 (4.7)	2.00 (50.8)	298-1085-ND	100	24.22	BT2S-C0
	40	11.1 (281.9)	0.141 (3.6)	3.00 (76.2)	298-1083-ND	100	44.52	BT3I-C0
	50	11.2 (284.5)	0.185 (4.7)	3.00 (76.2)	298-1086-ND	100	49.56	BT3S-C0
1	18	14.0 (355.6)	0.095 (2.4)	4.00 (101.6)	298-1091-ND	100	41.76	BT4M-C0
	4.0	14.3 (363.2)	0.141 (3.6)	4.00 (101.6)	298-1084-ND	100	58.65	BT4I-C0
	50	14.4 (365.8)	0.185 (4.7)	4.00 (101.6)	298-1087-ND	100	55.74	BT4S-C0
	120	18.1 (459.7)	0.275 (7.0)	5.00 (127.0)	298-1092-ND	50	55.24	BT5LH-L0
	120	24.4 (619.8)	0.275 (7.0)	7.00 (177.8)	298-1094-ND	50	76.88	BT7LH-L0
	120	27.5 (698.5)	0.275 (7.0)	8.00 (203.2)	298-1095-ND	50	92.53	BT8LH-L0
PAN-TY Releasable Tie – Nylon — RoHS Compliant								
1	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1057-ND	100	42.04	PRT2S-C
		11.5 (292.1)		3.00 (76.2)	298-1058-ND	100	71.17	PRT3S-C
		14.5 (368.3)		4.00 (101.6)	298-1059-ND	100	86.61	PRT4S-C
PAN-TY Releasable Tie - Weather Resistant – Black — RoHS Compliant								
1	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1060-ND	100	44.56	PRT2S-C0
		11.5 (292.1)		3.00 (76.2)	298-1061-ND	100	79.59	PRT3S-C0
		14.5 (368.3)		4.00 (101.6)	298-1062-ND	100	95.10	PRT4S-C0
PAN-TY Marker Tie With Write On Area – Nylon — RoHS Compliant								
1	18	3.9 (99.1)	0.098 (2.5)	0.75 (19.1)	298-1011-ND	100	35.43	PLM1M-C
	18	4.3 (109.2)		0.87 (22.1)	298-1010-ND	100	35.15	PLF1M-C
	50	7.4 (188.0)		1.75 (45.0)	298-1012-ND	100	67.01	PLM2S-C
PAN-TY Marker Tie With Write On Area – Weather Resistant – Black — RoHS Compliant								
1	18	3.9 (99.1)	0.098 (2.5)	0.75 (19.1)	298-1014-ND	100	46.12	PLM1M-C0
	18	4.3 (109.2)		0.87 (22.1)	298-1013-ND	100	48.43	PLF1M-C0
	50	7.4 (188.0)		1.75 (45.0)	298-1015-ND	100	81.64	PLM2S-C0
Cushion Sleeve For Use With Metal Locking Tie – Black — RoHS Compliant								
—	—	100ft. (30.48m)	0.330 (8.0)	—	298-1103-ND	1 Reel	188.61	PCSS-B-CR
TAK-TY® (VELCRO®*) Easy Release And Reuse Brand Cable Tie – Black — RoHS Compliant								
1	50	6.0 (152.4)	0.75 (19.1)	1.50 (38.1)	298-1110-ND	10	11.86	HLS1.5S-X0
	40	8.0 (203.2)	0.50 (12.7)	1.90 (48.3)	298-1113-ND	10	13.68	HLT2I-X0
	40	12.0 (304.8)	0.50 (12.7)	3.20 (81.3)	298-1114-ND	10	17.77	HLT3I-X0
	50	12.0 (304.8)	0.75 (19.1)	3.00 (76.2)	298-1108-ND	10	20.08	HLC3S-X0
	50	12.0 (304.8)	0.75 (19.1)	3.00 (76.2)	298-1111-ND	10	19.79	HLS3S-X0
	50	18.0 (457.2)	0.75 (19.1)	5.00 (127.0)	298-1109-ND	10	24.60	HLC5S-X0
	50	18.0 (457.2)	0.75 (19.1)	5.00 (127.0)	298-1112-ND	10	28.83	HLS5S-X0
	50	15ft. (4.572m)	0.75 (19.1)	Various	298-1115-ND	1 Reel	18.98	HLS-15R0

◆ *RoHS Compliant*

* VELCRO is a registered trademark of the Velcro Companies † See datasheet for additional dimensions

Fig.	Max. Bundle Diameter Inch (mm)	Length Inch (mm)	Thickness & Width In. (mm)	Min. Loop Tensile Strength Lbs.	Recommend Installation Tools	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Metal Locking Tie – Stainless Steel — RoHS Compliant									
1	1.00 (25.4)	5.0 (127.0)	.010 x .18 (.25 x 4.4)	100	GS4MT	298-1100-ND	100	74.51	MLT1S-CP
	2.00 (50.8)	7.9 (200.7)			ST2MT or	298-1101-ND	100	72.59	MLT2S-CP
	4.00 (101.6)	14.2 (360.7)			HTMT	298-1102-ND	100	86.90	MLT4S-CP
WAVE-TY™ Superior Grip Stainless Steel Ties — RoHS Compliant									
7	6.00 (152)	20.5 (521)	.010 x .31 (.25 x 7.9)	200	GS4MT	298-1332-ND	50	96.44	MLT6WH-LP
	8.00 (203)	26.8 (631)			ST2MT or	298-1333-ND	50	123.21	MLT8WH-LP
	10.00 (254)	33.0 (838)			HTMT	298-1334-ND	50	154.01	MLT10WH-LP
Metal Locking Tie – Nylon Coated — RoHS Compliant									
8	2 (51)	7.9 (201)	.010 x .31 (7.9 x .25)	250	GS4MT, HTHM	298-9970-ND	50	158.49	MLTC2H-LP316
	4 (102)	14.3 (362)		250	ST2MT or	298-9971-ND	50	186.00	MLTC4H-LP316
	6 (152)	20.5 (521)		250	PPTMT	298-9972-ND	50	278.50	MLTC6H-LP316

Fig.	Length Inch (mm)	Width Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Tie Holder With Adhesive – Nylon — RoHS Compliant						
9	0.75 (19.1)	0.75 (19.1)	298-1116-ND	100	85.59	ABMM-A-C
	1.00 (25.4)	1.00 (25.4)	298-1118-ND	100	113.00	ABM100-A-C
	1.12 (28.6)	1.12 (28.6)	298-1268-ND	100	125.69	ABM112-A-C
	1.13 (28.7)	1.13 (28.7)	298-1117-ND	100	130.31	ABMS-A-C
	1.50 (38.1)	1.50 (38.1)	298-1119-ND	50	90.21	ABM3H-A-L

Fig.	Dimensions - Inch (mm)			Pull Apart Force	Digi-Key Part No.	Price Each			Panduit Part No.
	A	B	C			1	50	100	
Swivel Cable Tie Mounts – Weather Resistant Black Nylon									
10	0.87 (22.10)	0.62 (15.75)	0.75 (19.05)	>120 lbs.	298-1308-ND◆	2.91	—	2.26	TM3-X2-C0Y
	1.64 (41.66)	0.73 (18.54)	1.23 (31.24)	>250 lbs.	298-1307-ND	3.49	2.71	—	TMEH-X2-L0

◆ *RoHS Compliant*

Fig.	Width Inch (mm)	Max. Bundle Dia. Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Cable Clamp – Nylon — RoHS Compliant						
11	0.4 (9.5)	0.13 (3.2)	298-1120-ND	100	13.07	CCS12-S8-C
		0.25 (6.4)	298-1121-ND	100	13.60	CCS25-S8-C
		0.38 (9.7)	298-1122-ND	100	14.72	CCS38-S8-C
		0.50 (12.7)	298-1123-ND	100	15.61	CCS50-S8-C

(Continued)

Wire Ties and Accessories *(Cont.)*

Fig.	Dimension A Inch	Digi-Key Part No.	Price Each 1	100	500	Panduit Part No.
PAN-CLAMP™ Heavy Duty Fixed Diameter Clamps — RoHS Compliant						
12	3/8	298-1299-ND	.65	.51	.41	PC038-H25D-C0
	1/2	298-1300-ND	.71	.56	.45	PC050-H25D-C0
	5/8	298-1301-ND	.77	.61	.49	PC062-H25D-C0
	3/4	298-1302-ND	.83	.65	.52	PC075-H25D-C0
	7/8	298-1303-ND	.89	.70	.56	PC087-H25D-C0
	1	298-1304-ND	.95	.74	.60	PC100-H25D-C0
	1 1/8	298-1305-ND	1.01	.79	.63	PC112-H25D-C0
	1 1/4	298-1306-ND	1.07	.84	.67	PC125-H25D-C0

Fig.	Max. Cable Width Inch (mm)	Mounting Method	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	50	100	Panduit Part No.
Type FCM Adhesive Mount								
For Stack Height up to .17" (4.3mm) – Nylon, Gray — RoHS Compliant								
13A	1.0 (25.4)	Adh. Foam Tape	1.21 (30.7)	298-1309-ND	1.26	—	.99	FCM1-A-C14
	1.0 (25.4)	#6 Screw	1.21 (30.7)	298-1314-ND	1.20	—	.94	FCM1-S6-C14
	1.2 (30.5)	Adh. Foam Tape	1.37 (34.8)	298-1310-ND	1.38	—	1.08	FCM1.2-A-C14
	1.2 (30.5)	#6 Screw	1.37 (34.8)	298-1315-ND	1.28	—	1.01	FCM1.2-S6-C14
	2.0 (50.8)	Adh. Foam Tape	2.22 (56.3)	298-1311-ND	1.40	—	1.10	FCM2-A-C14
	2.0 (50.8)	#6 Screw	2.22 (56.3)	298-1316-ND	1.33	—	1.05	FCM2-S6-C14
	3.25 (82.6)	Adh. Foam Tape	3.38 (85.9)	298-1312-ND	2.11	1.65	—	FCM3.25-A-L14
	3.25 (82.6)	#6 Screw	3.38 (85.9)	298-1317-ND	1.82	1.42	—	FCM3.25-S6-L14
Type FCH Adhesive Mount								
For Stack Height up to .25" (6.3mm) – Nylon, TELCO Gray — RoHS Compliant								
13B	2.00 (50.8)	Adh. Foam Tape	2.5 (63.5)	298-1313-ND	2.17	—	1.69	FCH2-A-C14
		#6 Screw		298-1318-ND	1.96	—	1.52	FCH2-S6-C14

Fig.	Dimension A Inch (mm)	Diameter Inch (mm)	Dimension B Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Circuit Board Post – Nylon — RoHS Compliant							
14	0.12 (3.0)	0.19 (4.7)	0.4 (10.3)	298-1128-ND	100	24.47	CBP12-C
	0.250 (6.4)		0.5 (13.5)	298-1129-ND	100	25.10	CBP25-C
	0.37 (9.4)		0.7 (16.6)	298-1130-ND	100	25.55	CBP37-C
	0.500 (12.7)		0.8 (19.8)	298-1131-ND	100	26.03	CBP50-C
	0.750 (19.1)		1.0 (26.2)	298-1132-ND	100	27.96	CBP75-C
	1.000 (25.4)		1.3 (32.5)	298-1133-ND	100	30.07	CBP100-C
Lock Circuit Board Support .156” / .187” (3.96 / 4.750mm) Diameter – Nylon — RoHS Compliant							
15	0.25 (6.4)	0.156 / 0.187 (3.960 /4.750)	0.980 (24.900)	298-1134-ND	100	23.16	CBLS25-C
	0.50 (12.7)		1.230 (31.200)	298-1135-ND	100	26.10	CBLS50-C
	0.75 (19.1)		1.480 (37.500)	298-1136-ND	100	29.61	CBLS75-C

Fig.	Min. #'s Loop Tensile Strength	Length Inch (mm)	Cable Diameter Inch (mm)	Hole Diameter Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Push Cable Tie Mount, STD – Natural — RoHS Compliant								
16	18-50	0.6 (16.0)	0.23 (5.8)	0.25 (6.4)	298-1143-ND	100	44.02	PWMS-H25-C
Push Cable Tie Mount – Natural — RoHS Compliant								
17	18-50	.44	.21	.25	298-9968-ND	1,000	186.35	PM2H25-M0

Fig.	Max. Bundle Dia. - Inch (mm)	Dimensions - In. (mm) A	B	Mat'l/ Color	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Push Mount Wire Saddle (Vertical) — RoHS Compliant								
18	.42 x .18 (11 x 5)	.58 (14.7)	.60 (15.2)	Nylon Natural	298-1319-ND	100	11.03	VWS4218-C
	.42 x .40 (11 x 10)	.78 (19.8)			298-1320-ND	100	11.43	VWS4238-C
	.42 x .74 (11 x 19)	1.14 (29)			298-1321-ND	100	16.69	VWS4274-C
	.42 x 1.05 (11 x 27)	1.45 (36.8)			298-1322-ND	100	18.06	VWS42105-C

Fig.	Max. Cable Diameter Inch (mm)	Dimensions Thickness Inch (mm)	Hole Size Inch (mm)	Digi-Key Part No.	Pkg. Qty	Price/ Pkg.	Panduit Part No.
Push Mount Cord Clip – Natural — RoHS Compliant							
19	0.38 (9.6)	0.105 (2.7)	0.250 (6.4)	298-9969-ND	1,000	277.49	PMCC38H25-M0

Fig.	Min. #'s Loop Tensile Strength	Tie Length Inch (mm)	Base Width Inch (mm)	Base Length Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Mount/Tie Combination – Natural — RoHS Compliant								
1 & 9	50	7.3 (185.0)	0.190 (4.8)	1.85 (47.0)	298-1144-ND	25	44.17	PLA2S-A-Q

Length Feet (meters)	Diameter Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Spiral Wrap – Natural — RoHS Compliant					
100 (30.48)	0.125 (3.2)	298-1137-ND	1 Reel	40.87	T12F-C
	0.250 (6.4)	298-1138-ND	1 Reel	53.55	T25F-C
	0.500 (12.7)	298-1139-ND	1 Reel	145.96	T50F-C
	0.750 (19.1)	298-1140-ND	1 Reel	177.78	T75F-C
Corrugated Loom Tubing – Black — RoHS Compliant					
100 (30.48)	0.250 (6.4)	298-1141-ND	1 Reel	35.70	CLT25F-C20
	0.500 (12.7)	298-1142-ND	1 Reel	44.69	CLT50F-C20

Length Feet (meters)	Width Inch (mm)	Height Inch (mm)	Panel Thickness Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Grommet Edging – Natural — RoHS Compliant							
100 (30.48)	0.106 (2.7)	0.12 (3.0)	.026 (.7) - .036 (.9)	298-1145-ND	1 Reel	33.93	GEE36F-C
	0.131 (3.3)	0.16 (4.1)	.036 (.9) - .062 (1.6)	298-1146-ND	1 Reel	35.07	GEE62F-C
	0.131 (3.3)	0.16 (4.1)	.036 (.9) - .062 (1.6)	298-1147-ND	1 Reel	47.32	GEE62FR-C
	0.169 (4.3)	0.19 (4.7)	.62 (1.6) - .099 (2.5)	298-1148-ND	1 Reel	62.02	GEE99FR-C

Fig.	Duct External Dimensions W x H - Inch (mm)	Std. Length Inch (mm)	Tape Width Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	Panduit Part No.
Polypropylene Material – UL94V-2 Flammability Rating — RoHS Compliant								
20	0.49 x 0.49 (12.5 x 12.5)	19.7 (500)	.24 (25)	298-4006-ND	5.37	4.34	3.97	FL12X12LG-A
	0.98 x 0.98 (25 x 25)		.58 (14.7)	298-4007-ND	8.73	7.05	6.45	FL25X25LG-A
	1.97 x 1.97 (50 x 50)		.58 (14.7) x 2	298-4008-ND	15.96	12.88	11.80	FL50X50LG-A

Fig.	Min. #'s Loop Tensile Strength	Clip Length Inch (mm)	Base Width Inch (mm)	Clip Height Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Adhesive Backed Cord Clips – Nylon — RoHS Compliant								
21	50	1.00 (25.4)	1.00 (25.4)	.38 (9.7)	298-1376-ND	100	74.01	ACC38-A-C

Fig.	Recommended Mount Stud	Length Inch (mm)	Dimensions Width Inch (mm)	Height Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Tie Mount – Threaded Stud — RoHS Compliant								
22	M6	1.25 (31.8)	.48 (12.2)	.95 (24.1)	298-9965-ND	1,000	208.89	TMSTLHS6-M0
	M8				298-9966-ND	1,000	208.89	TMSTLHS8-M0

Fig.	Length Inch (mm)	Dimensions Width Inch (mm)	Height Inch (mm)	Digi-Key Part No.	Pkg. Qty.	Price/ Pkg.	Panduit Part No.
Pushbutton Mount – Nylon — RoHS Compliant							
23	.45 (11.4)	.16 (4.1)	.41 (10.4)	298-9967-ND	1,000	239.81	PBMS-H25-M0

Description	Digi-Key Part No.	Price Each	Panduit Part No.
Tools — RoHS Compliant			
Gun Cable Tie Tool - Black Handle, Tensile Strength: ≤ 50 lbs.	298-1097-ND	26.39	STS2
Gun Cable Tie Tool - Black Plastic & Metal Body, Tensile Strength: ≤ 50 lbs.	298-1098-ND	204.22	GS2B
Gun Cable Tie Tool - Red Handle & Metal Body, Tensile Strength: ≤ 50 lbs.	298-1099-ND	349.95	GS4H
Stainless Stl. Locking Tie Tool - Screwdriver Type, For Tension/Coil Tail of Tie	298-1105-ND	19.00	HTMT
Stainless Steel Locking Tie Tool - Ratchet Type, To Control Tension & Cutoff	298-1106-ND	333.46	ST2MT
Stainless Steel Locking Tie Tool - Gun Type	298-1107-ND	674.28	GS4MT

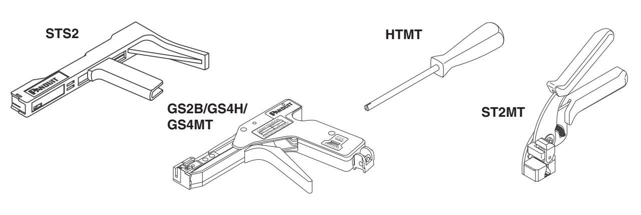

PANDUIT®
ELECTRICAL GROUP

Ducts and Accessories

Ducts

Features: • Made of rigid PVC • Rated for continuous use temperatures up to 50°C (122°F) • U.L. Flammability rating: V-0

How to Select a Base Number:

#1 = Select 2 letter code for first □□ in Digi-Key Part No. which represents color of your choice: **WH**=White, **LG**=Light Gray, **BL**=Black.

#2 = Select 2 digit code for second □□ in Digi-Key Part No. for your choice of available length.

Example Part Number:

298-F5X5□□□□-A-ND

Optional for Adhesive only

#1

Color	
WH	White
LG	Light Gray
BL	Black

#2

Available Lengths (inches)*		
06	18	24
36	72	—

* Length Tolerance ±1/8"

NOTE: Contact Digi-Key for pricing on cut down lengths

Fig. 1

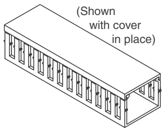

(Shown with cover in place)

Fig. 2

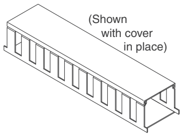

(Shown with cover in place)

Fig. 3

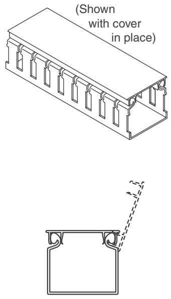

(Shown with cover in place)

Fig. 4

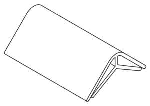

Fig. 5

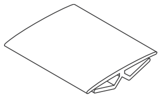

Fig. 6

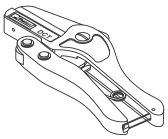

Fig.	Dimensions Inch (mm) Width	Height	Mating Cover Part No.	Digi-Key Part No.	Note: Last 2 boxes in Digi-Key Part No. represents number of inches Price Per Length (Inches)* 72"
F Type — White (WH) and Light Gray (LG)					
1	0.69 (17.5)	0.56 (14.2)	—	298-F5X5WH72-ND	20.06
	0.94 (23.9)	0.83 (21.0)	—	298-F75X75□□□□-ND	23.87
	0.94 (23.9)	1.58 (40.0)	—	298-F75X15WH72-ND	31.68
	1.25 (31.8)	1.59 (40.3)	—	298-F1X15WH72-ND	33.46
	1.75 (44.5)	1.09 (27.1)	298-C15LG□□-ND	298-F15X1WH□□-ND	29.15
	1.75 (44.5)	1.59 (40.3)	298-C15LG□□-ND	298-F15X15WH72-ND	33.36
	1.75 (44.5)	2.09 (53.0)	298-C15LG□□-ND	298-F15X2WH□□-ND	36.40
	2.25 (57.2)	1.09 (27.1)	—	298-F2X1□□72-ND	33.69
	2.25 (57.2)	1.59 (40.3)	—	298-F2X15□□72-ND	36.96
	2.25 (57.2)	2.09 (53.0)	—	298-F2X2WH72-ND	35.59
F Type — Adhesive Type — Light Gray (LG)					
1	0.69 (17.5)	0.56 (14.2)	—	298-F5X5LG72-A-ND	25.56
	0.69 (17.5)	1.09 (27.1)	—	298-F5X1LG72-A-ND	29.36
	0.94 (23.9)	1.58 (40.0)	—	298-F75X15LG72-A-ND	37.17
	1.25 (31.8)	1.09 (27.1)	—	298-F1X1LG□□-A-ND	30.32
	1.25 (31.8)	2.09 (53.0)	—	298-F1X2LG72-A-ND	38.33
	1.75 (44.5)	1.09 (27.1)	298-C15LG□□-ND	298-F15X1LG72-A-ND	35.16
	1.75 (44.5)	1.59 (40.3)	298-C15LG□□-ND	298-F15X15LG72-A-ND	38.63
	1.75 (44.5)	2.09 (53.0)	298-C15LG□□ND	298-F15X2LG72-A-ND	41.88
	2.25 (57.2)	1.09 (27.1)	—	298-F2X1LG72-A-ND	41.50
	2.25 (57.2)	1.59 (40.3)	—	298-F2X15LG72-A-ND	44.25
G Type — White (WH) and Light Gray (LG)					
2	0.69 (17.5)	0.56 (14.2)	—	298-G5X5WH72-ND	19.27
	0.69 (17.5)	1.09 (27.1)	—	298-G5X1WH72-ND	22.92
	0.94 (23.9)	0.83 (21.0)	—	298-G75X75WH72-ND	22.92
	0.94 (23.9)	1.09 (27.1)	—	298-G75X1WH72-ND	23.73
	0.94 (23.9)	1.58 (40.0)	—	298-G75X15WH72-ND	30.42
	0.94 (23.9)	2.09 (53.0)	—	298-G75X2□□72-ND	34.78
	1.25 (31.8)	1.09 (27.1)	—	298-G1X1WH72-ND	24.23
	1.25 (31.8)	2.09 (53.0)	—	298-G1X2□□72-ND	33.06
	1.75 (44.5)	1.09 (27.1)	298-C15LG□□-ND	298-G15X1□□72-ND	27.99
	1.75 (44.5)	1.59 (40.3)	298-C15LG□□-ND	298-G15X15□□72-ND	33.36
	1.75 (44.5)	2.09 (53.0)	298-C15LG□□-ND	298-G15X2WH72-ND	36.40
	2.25 (57.2)	1.09 (27.1)	—	298-G2X1□□□□-ND	32.35
	2.25 (57.2)	1.59 (40.3)	—	298-G2X15□□72-ND	35.49
	2.25 (57.2)	2.09 (53.0)	—	298-G2X2WH72-ND	35.59
G Type — Adhesive Type — White (WH) and Light Gray (LG)					
2	0.69 (17.5)	0.56 (14.2)	—	298-G5X5□□□□-A-ND	24.54
	0.69 (17.5)	1.09 (27.1)	—	298-G5X1□□72-A-ND	28.19
	0.94 (23.9)	1.09 (27.1)	—	298-G75X1□□72-A-ND	28.59
	0.94 (23.9)	1.58 (40.0)	—	298-G75X15□□72-A-ND	35.69
	0.94 (23.9)	2.09 (53.0)	—	298-G75X2□□72-A-ND	40.97
	1.25 (31.8)	1.09 (27.1)	—	298-G1X1□□72-A-ND	30.32
	1.25 (31.8)	1.59 (40.3)	—	298-G1X15WH72-A-ND	39.34
	1.25 (31.8)	2.09 (53.0)	—	298-G1X2□□72-A-ND	39.44
	1.75 (44.5)	1.09 (27.1)	298-C15LG□□-ND	298-G15X1□□72-A-ND	33.77
	1.75 (44.5)	1.59 (40.3)	298-C15LG□□-ND	298-G15X15WH72-A-ND	38.63
	1.75 (44.5)	2.09 (53.0)	298-C15LG□□-ND	298-G15X2□□72-A-ND	41.88
	2.25 (57.2)	1.09 (27.1)	—	298-G2X1□□72-A-ND	39.85
	2.25 (57.2)	1.59 (40.3)	—	298-G2X15□□72-A-ND	42.08
	2.25 (57.2)	2.09 (53.0)	—	298-G2X2□□72-A-ND	42.79
H Type — Black (BL) and Light Gray (LG)					
3	4.25 (107.95)	4.10 (104.14)	298-HC4LG24-ND	298-H4X4□□72-ND	82.95

* Call Digi-Key for pricing of larger quantities

Covers

Inch (mm) Width	Digi-Key Part No.	Note: Last 2 boxes in Digi-Key part number represents number of inches Price Per Length (Inches)* 12"	18"	24"
F and G Type — Light Gray (LG)				
1.75 (44.5)	298-C15LG□□-ND	3.69	4.84	—
H Type — Light Gray (LG)				
4.25 (107.95)	298-HC4LG24-ND	—	—	13.26

* Call Digi-Key for pricing of larger quantities

Corners

Available only in Light Gray (LG)

Fig.	For Duct Height Inch (mm)	Digi-Key Part No.	Price Each 1	20	100
4	1.00 (25.40)	298-CSP1LG-Q-ND	2.19	1.77	1.62
	1.50 (38.10)	298-CSP15LG-Q-ND	2.38	1.92	1.76
	3.00 (76.20)	298-CSP3LG-Q-ND	3.29	2.66	2.44
	4.00 (106.60)	298-CSP4LG-Q-ND	3.72	3.00	2.75

Joining Strips

Available only in Light Gray (LG)

Fig.	For Duct Height Inch (mm)	Digi-Key Part No.	Price Each 1	20	100
5	1.50 (38.10)	298-DJSP15LG-Q-ND	2.14	1.73	1.59
	2.00 (50.80)	298-DJSP2LG-Q-ND	2.30	1.86	1.70
	3.00 (76.20)	298-DJSP3LG-Q-ND	2.96	2.39	2.19
	4.00 (106.60)	298-DJSP4LG-Q-ND	3.35	2.70	2.48

Installation Tools

DCT: • Use to cut any Panduit duct or cover • Heavy duty steel tool incorporates a new, improved blade design which minimizes cutting force and blade wear. Provides a smooth burr-free cut on both wiring duct and cover.
DNT-100: • A heavy duty tool used to notch slotted wall wiring duct from the bottom of a slot to the base of the duct.

Fig.	Description	Digi-Key Part No.	Price 1	Mfg. Part No.
6	Hand held duct and cover cutting tool	298-9901-ND	123.66	DCT

BIVAR Opto Light Pipes

Fig. 1

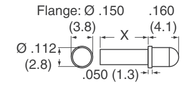

Fig. 2

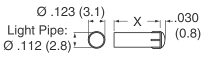

Fig. 3

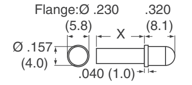

FEATURES:

PLP1 and PLP2 Series: • Protects circuits from ESD • Use with BivarOpto SM or Through-hole Series LEDs • PLP1 Series panel light pipes press fits into panel

PLP5 Series: • Dual-lens geometry • Improved lighting intensity • Press fits into panel

Fig.	Dimension X Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Bivar Opto Part No.
PLP1 Series						
1	.125 (3.2)	492-1148-ND	.73	.41	.30	PLP1-125
	.250 (6.4)	492-1149-ND	.73	.41	.30	PLP1-250
	.500 (12.7)	492-1150-ND	.73	.41	.30	PLP1-500
	.750 (19.0)	492-1151-ND	.77	.43	.31	PLP1-750
PLP2 Series						
2	.125 (3.2)	492-1152-ND	.67	.37	.27	PLP2-125
	.250 (6.4)	492-1153-ND	.73	.41	.30	PLP2-250
	.500 (12.7)	492-1154-ND	.73	.41	.30	PLP2-500
	.750 (19.0)	492-1155-ND	.73	.41	.30	PLP2-750
PLP5 Series						
3	.125 (3.2)	492-1141-ND	.73	.41	.30	PLP5-125
	.250 (6.4)	492-1142-ND	.73	.41	.30	PLP5-250
	.500 (12.7)	492-1143-ND	.73	.41	.30	PLP5-500
	.750 (19.0)	492-1144-ND	.73	.41	.30	PLP5-750
	1.00 (25.4)	492-1145-ND	.73	.41	.30	PLP5-1000
	1.25 (31.8)	492-1146-ND	.73	.41	.30	PLP5-1250
	1.50 (38.1)	492-1147-ND	.73	.41	.30	PLP5-1500

LED Modules

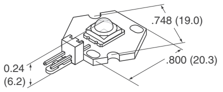

FEATURES:

- **Lens Appearance:** Water Clear
- **Viewing Angle:** 100°

Dominant Wave Length λd (nm)			Electro-Optical Data @ 350mA							
			Vf (V)	Lum Flux (lm)		Digi-Key	Price Each			Bivar Opto
Min.	Max.	Color	Typ.	Min.	Max.	Part No.	1	10	100	Part No.
465	475	Blue	3.3	6.3	23.5	492-1131-ND	14.30	12.03	10.99	LK-470-001
465	475	Blue	3.3	6.3	23.5	492-1136-ND†	14.30	12.03	10.99	LK-470-001-FC
520	535	Green	3.3	30.6	67.2	492-1132-ND	14.30	12.03	10.99	LK-530-001
520	535	Green	3.3	30.6	67.2	492-1137-ND†	14.30	12.03	10.99	LK-530-001-FC
585	595	Amber	2.3	30.6	67.2	492-1133-ND	9.90	8.33	7.61	LK-590-001
585	595	Amber	2.3	30.6	67.2	492-1138-ND†	9.90	8.33	7.61	LK-590-001-FC
620	635	Red	2.3	18.1	51.7	492-1134-ND	9.90	8.33	7.61	LK-630-001
620	635	Red	2.3	18.1	51.7	492-1139-ND†	9.90	8.33	7.61	LK-630-001-FC
4500K	8000K	White	3.3	23.5	67.2	492-1135-ND	14.30	12.03	10.99	LK-WHT-001
4500K	8000K	White	3.3	23.5	67.2	492-1140-ND†	14.30	12.03	10.99	LK-WHT-001-FC

† Field Connect

Molded and Self-Retaining LED Mounts

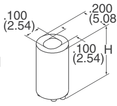

Features: • One universal style for both T-1 (3mm) and T-1 3/4 (5mm) LEDs • Internal tapered divider prevents leads from shorting

Material Specifications: • UL Rated 94V-0, Color: Black, 33% GF Polyphalamide (PPA)

Dimension H Inch (mm)	Digi-Key Part No.	Pricing 10	100	500	Bivar Opto Part No.
.15 (3.8)	492-1029-ND	1.65	11.03	40.79	LTM-150
.2 (5.1)	492-1030-ND	1.65	11.03	40.79	LTM-200
.25 (6.4)	492-1031-ND	2.13	14.20	52.55	LTM-250
.3 (7.6)	492-1032-ND	1.71	11.37	42.06	LTM-300
.35 (8.9)	492-1033-ND	1.71	11.37	42.06	LTM-350
.4 (10.2)	492-1034-ND	1.81	12.08	44.68	LTM-400
.45 (11.4)	492-1035-ND	1.81	12.08	44.68	LTM-450
.5 (12.7)	492-1036-ND	1.96	13.07	48.37	LTM-500

BIVAR Crystal Insulators

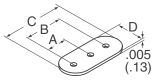

Material Specifications: Dupont, Mylar EL-21 with UL Rated 94V-2

Dimensions — Inch (mm)				Use	Digi-Key	Pricing		Bivar
A	B	C	D	With	Part No.	10	100	Part No.
—	.148 (3.8)	.325 (8.3)	.145 (3.7)	HC-80/U	492-1037-ND	.82	4.50	CI-148-028 SR
.074 (1.9)	.148 (3.8)	.325 (8.3)	.145 (3.7)	HC-80/U	492-1038-ND	.82	4.50	CI-148-028-3 SR
—	.192 (4.9)	.465 (11.8)	.219 (5.6)	HC-18/U, HC43/U, HC-49/U	492-1039-ND	.79	4.33	CI-192-028 SR
.096 (2.4)	.192 (4.9)	.465 (11.8)	.219 (5.6)	HC-18/U, HC43/U, HC-49/U	492-1040-ND	.82	4.50	CI-192-028-3 SR

Nylon Spacers

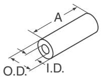

Material Specifications:
Natural Nylon, per ASTM D 4066 PA 225, UL Rated 94V-2

Screw	Dimensions — Inch (mm)			Digi-Key	Pricing		Bivar
Size	Dim. A	ID	OD	Part No.	10	100	Part No.
#2	1/16 (1.6)	.091 (2.3)	.187 (4.7)	492-1041-ND	.66	3.65	9913-062
	1/8 (3.2)	.091 (2.3)	.187 (4.7)	492-1042-ND	.66	3.65	9913-125
	3/16 (4.8)	.091 (2.3)	.187 (4.7)	492-1043-ND	.66	3.65	9913-187
	1/4 (6.4)	.091 (2.3)	.187 (4.7)	492-1044-ND	.66	3.65	9913-250
	5/16 (7.9)	.091 (2.3)	.187 (4.7)	492-1045-ND	.66	3.65	9913-312
	3/8 (9.5)	.091 (2.3)	.187 (4.7)	492-1046-ND	.72	3.94	9913-375
	7/16 (11.1)	.091 (2.3)	.187 (4.7)	492-1047-ND	.72	3.94	9913-437
	1/2 (12.7)	.091 (2.3)	.187 (4.7)	492-1048-ND	.72	3.94	9913-500
	9/16 (14.3)	.091 (2.3)	.187 (4.7)	492-1049-ND	.72	3.94	9913-562
	5/8 (15.9)	.091 (2.3)	.187 (4.7)	492-1050-ND	.77	4.25	9913-625
	3/4 (19.1)	.091 (2.3)	.187 (4.7)	492-1051-ND	.77	4.25	9913-750
	13/16 (20.6)	.091 (2.3)	.187 (4.7)	492-1052-ND	.82	4.50	9913-812
	7/8 (22.2)	.091 (2.3)	.187 (4.7)	492-1053-ND	.82	4.50	9913-875
	15/16 (23.8)	.091 (2.3)	.187 (4.7)	492-1054-ND	.82	4.50	9913-937
	1 (25.4)	.091 (2.3)	.187 (4.7)	492-1055-ND	.82	4.50	9913-1.000
#2	1/16 (1.6)	.091 (2.3)	.250 (6.4)	492-1056-ND	.66	3.65	9910-062
	1/8 (3.2)	.091 (2.3)	.250 (6.4)	492-1057-ND	.66	3.65	9910-125
	3/16 (4.8)	.091 (2.3)	.250 (6.4)	492-1058-ND	.66	3.65	9910-187
	1/4 (6.4)	.091 (2.3)	.250 (6.4)	492-1059-ND	.66	3.65	9910-250
	5/16 (7.9)	.091 (2.3)	.250 (6.4)	492-1060-ND	.66	3.65	9910-312
	3/8 (9.5)	.091 (2.3)	.250 (6.4)	492-1061-ND	.72	3.94	9910-375
	7/16 (11.1)	.091 (2.3)	.250 (6.4)	492-1062-ND	.72	3.94	9910-437
	1/2 (12.7)	.091 (2.3)	.250 (6.4)	492-1063-ND	.72	3.94	9910-500
	9/16 (14.3)	.091 (2.3)	.250 (6.4)	492-1064-ND	.72	3.94	9910-562
	5/8 (15.9)	.091 (2.3)	.250 (6.4)	492-1065-ND	.77	4.25	9910-625
	3/4 (19.1)	.091 (2.3)	.250 (6.4)	492-1066-ND	.77	4.25	9910-750
	13/16 (20.6)	.091 (2.3)	.250 (6.4)	492-1067-ND	.82	4.50	9910-812
	7/8 (22.2)	.091 (2.3)	.250 (6.4)	492-1068-ND	.82	4.50	9910-875
	15/16 (23.8)	.091 (2.3)	.250 (6.4)	492-1069-ND	.82	4.50	9910-937
	1 (25.4)	.091 (2.3)	.250 (6.4)	492-1070-ND	.82	4.50	9910-1.000
#4	1/16 (1.6)	.125 (3.2)	.187 (4.7)	492-1071-ND	.66	3.65	9908-062
	1/8 (3.2)	.125 (3.2)	.187 (4.7)	492-1072-ND	.66	3.65	9908-125
	3/16 (4.8)	.125 (3.2)	.187 (4.7)	492-1073-ND	.66	3.65	9908-187
	1/4 (6.4)	.125 (3.2)	.187 (4.7)	492-1074-ND	.66	3.65	9908-250
	5/16 (7.9)	.125 (3.2)	.187 (4.7)	492-1075-ND	.66	3.65	9908-312
	3/8 (9.5)	.125 (3.2)	.187 (4.7)	492-1076-ND	.72	3.94	9908-375
	7/16 (11.1)	.125 (3.2)	.187 (4.7)	492-1077-ND	.72	3.94	9908-437
	1/2 (12.7)	.125 (3.2)	.187 (4.7)	492-1078-ND	.72	3.94	9908-500
	9/16 (14.3)	.125 (3.2)	.187 (4.7)	492-1079-ND	.72	3.94	9908-562
	5/8 (15.9)	.125 (3.2)	.187 (4.7)	492-1080-ND	.77	4.25	9908-625
	3/4 (19.1)	.125 (3.2)	.187 (4.7)	492-1081-ND	.77	4.25	9908-750
	13/16 (20.6)	.125 (3.2)	.187 (4.7)	492-1082-ND	.82	4.50	9908-812
	7/8 (22.2)	.125 (3.2)	.187 (4.7)	492-1083-ND	.82	4.50	9908-875
	15/16 (23.8)	.125 (3.2)	.187 (4.7)	492-1084-ND	.82	4.50	9908-937
	1 (25.4)	.125 (3.2)	.187 (4.7)	492-1085-ND	.82	4.50	9908-1.000
#4	1/16 (1.6)	.125 (3.2)	.250 (6.4)	492-1086-ND	.66	3.65	9911-062
	1/8 (3.2)	.125 (3.2)	.250 (6.4)	492-1087-ND	.66	3.65	9911-125
	3/16 (4.8)	.125 (3.2)	.250 (6.4)	492-1088-ND	.66	3.65	9911-187
	1/4 (6.4)	.125 (3.2)	.250 (6.4)	492-1089-ND	.66	3.65	9911-250
	5/16 (7.9)	.125 (3.2)	.250 (6.4)	492-1090-ND	.66	3.65	9911-312
	3/8 (9.5)	.125 (3.2)	.250 (6.4)	492-1091-ND	.72	3.94	9911-375
	7/16 (11.1)	.125 (3.2)	.250 (6.4)	492-1092-ND	.72	3.94	9911-437
	1/2 (12.7)	.125 (3.2)	.250 (6.4)	492-1093-ND	.72	3.94	9911-500
	9/16 (14.3)	.125 (3.2)	.250 (6.4)	492-1094-ND	.72	3.94	9911-562
	5/8 (15.9)	.125 (3.2)	.250 (6.4)	492-1095-ND	.77	4.25	9911-625
	3/4 (19.1)	.125 (3.2)	.250 (6.4)	492-1096-ND	.77	4.25	9911-750
	13/16 (20.6)	.125 (3.2)	.250 (6.4)	492-1097-ND	.82	4.50	9911-812
	7/8 (22.2)	.125 (3.2)	.250 (6.4)	492-1098-ND	.82	4.50	9911-875
	15/16 (23.8)	.125 (3.2)	.250 (6.4)	492-1099-ND	.82	4.50	9911-937
	1 (25.4)	.125 (3.2)	.250 (6.4)	492-1100-ND	.82	4.50	9911-1.000
#6	1/16 (1.6)	.147 (3.7)	.250 (6.4)	492-1101-ND	.66	3.65	9905-062
	1/8 (3.2)	.147 (3.7)	.250 (6.4)	492-1102-ND	.66	3.65	9905-125
	3/16 (4.8)	.147 (3.7)	.250 (6.4)	492-1103-ND	.66	3.65	9905-187
	1/4 (6.4)	.147 (3.7)	.250 (6.4)	492-1104-ND	.66	3.65	9905-250
	5/16 (7.9)	.147 (3.7)	.250 (6.4)	492-1105-ND	.66	3.65	9905-312
	3/8 (9.5)	.147 (3.7)	.250 (6.4)	492-1106-ND	.72	3.94	9905-375
	7/16 (11.1)	.147 (3.7)	.250 (6.4)	492-1107-ND	.72	3.94	9905-437
	1/2 (12.7)	.147 (3.7)	.250 (6.4)	492-1108-ND	.72	3.94	9905-500
	9/16 (14.3)	.147 (3.7)	.250 (6.4)	492-1109-ND	.72	3.94	9905-562
	5/8 (15.9)	.147 (3.7)	.250 (6.4)	492-1110-ND	.77	4.25	9905-625
	3/4 (19.1)	.147 (3.7)	.250 (6.4)	492-1111-ND	.77	4.25	9905-750
	13/16 (20.6)	.147 (3.7)	.250 (6.4)	492-1112-ND	.82	4.50	9905-812
	7/8 (22.2)	.147 (3.7)	.250 (6.4)	492-1113-ND	.82	4.50	9905-875
	15/16 (23.8)	.147 (3.7)	.250 (6.4)	492-1114-ND	.82	4.50	9905-937
	1 (25.4)	.147 (3.7)	.250 (6.4)	492-1115-ND	.82	4.50	9905-1.000
#8	1/16 (1.6)	.171 (4.3)	.250 (6.4)	492-1116-ND	.66	3.65	9912-062
	1/8 (3.2)	.171 (4.3)	.250 (6.4)	492-1117-ND	.66	3.65	9912-125
	3/16 (4.8)	.171 (4.3)	.250 (6.4)	492-1118-ND	.66	3.65	9912-187
	1/4 (6.4)	.171 (4.3)	.250 (6.4)	492-1119-ND	.66	3.65	9912-250
	5/16 (7.9)	.171 (4.3)	.250 (6.4)	492-1120-ND	.66	3.65	9912-312
	3/8 (9.5)	.171 (4.3)	.250 (6.4)	492-1121-ND	.72	3.94	9912-375
	7/16 (11.1)	.171 (4.3)	.250 (6.4)	492-1122-ND	.72	3.94	9912-437
	1/2 (12.7)	.171 (4.3)	.250 (6.4)	492-1123-ND	.72	3.94	9912-500
	9/16 (14.3)	.171 (4.3)	.250 (6.4)	492-1124-ND	.72	3.94	9912-562
	5/8 (15.9)	.171 (4.3)	.250 (6.4)	492-1125-ND	.77	4.25	9912-625
	3/4 (19.1)	.171 (4.3)	.250 (6.4)	492-1126-ND	.77	4.25	9912-750
	13/16 (20.6)	.171 (4.3)	.250 (6.4)	492-1127-ND	.82	4.50	9912-812
	7/8 (22.2)	.171 (4.3)	.250 (6.4)	492-1128-ND	.82	4.50	9912-875
	15/16 (23.8)	.171 (4.3)	.250 (6.4)	492-1129-ND	.82	4.50	9912-937
	1 (25.4)	.171 (4.3)	.250 (6.4)	492-1130-ND	.78	4.29	9912-1.000

Panasonic® Magnetic Card Readers

Fig. 1

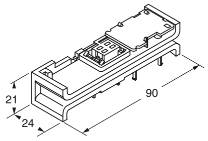

Manual Swipe Card Readers: • Compact and lightweight designs • High performance head mechanism

Applications: • Credit authorization terminals • Credit card telephones • POS terminals • Time and attendance terminals • Banking terminals (ATM/CD)

Specifications: • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: -20°C ~ 60°C / 10 ~ 90%RH • Head Life: PCR100/102/221 – 300K passes; PCR223/224 – 1Million passes

Fig. 2

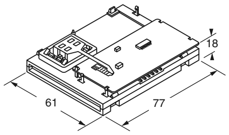

Manual Insertion Card Reader: • High precision, high reliability

Applications: • Credit card telephones • Cost control for facsimiles and copiers • Security control systems • Time and attendance terminals

Specifications: • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: -20°C ~ 60°C / 10 ~ 90%RH • Head Life: 300K passes

Fig. 3 ***NEW!***

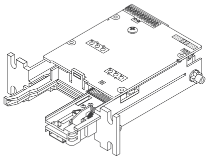

Manual Insertion Card Readers with Smart Card Capabilities ZU-98302SEA/ZU-98330SEA:

Specifications: • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: -25°C ~ 70°C, 10% ~ 90% RH (non condensing)

Interface: • Magnetic Card: Direct output of decoder IC-CMOS 0 ~ 5V • Smart Card: Contacts only, no interface. Reader will "lock" card until transaction is complete. • Head/Contact Life: 500K

Fig. 4

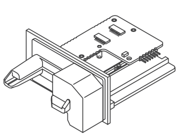

Manual Insertion Card Readers ZU-1870MA6T2, ZU-1852MAL5, ZU-1870MA5T5, ZU-1870MA4T4: • High precision, high reliability **Applications:** • Credit card telephones • Cost control for facsimiles and copiers • Security control systems • Time and attendance terminals **Specifications:** • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: -20°C ~ 60°C / 10 ~ 90%RH • Head Life: PCR109 – 300K passes; PCR106/107/113 – 500K passes

Manual Insertion Card Reader ZU-1870MA8R2 with Built-In RS-232 Interface and Decoder: **Applications:** • For Outdoor use • Twin read heads for ease of use • IPX4 rated for moisture resistance **Specifications:** • Power Supply Voltage: 4.75V ~ 12V • Operating Temperature/Humidity: -10°C ~ 50°C / 10 ~ 90%RH • Head Life: 500K passes **Notes:** Cable is not included. Demo software is available but is not included.

Manual Insertion Magnetic Card Reader with USB ZU-1870MU1: • USB (keyboard emulation) interface • Can use standard Windows XP driver for communications (HID). No third party device driver is required. **Specifications:** • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: 0°C ~ 60°C / 10 ~ 90% RH • Head Life: 500K **Applications:** • For outdoor use • Twin read heads for ease of use • IPX4 rated for moisture resistance

Fig. 5

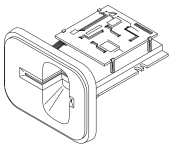

Manual Insertion Card Reader ZU-1890M: • High precision, high reliability **Applications:** • Credit card telephones • Cost control for facsimiles and copiers • Security control systems • Time and attendance terminals **Specifications:** • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: -20°C ~ 60°C / 10 ~ 90%RH • Head Life: 300K passes

Manual Insertion Card Reader ZU-1890MR02, with Built-in RS-232 Interface and Decoder: • For indoor applications **Specifications:** • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: -10°C ~ 50°C / 10 ~ 90%RH • Head Life: 300K passes

Manual Insertion Magnetic Card Reader ZU-1890MU1 with USB: • USB (Keyboard Emulation) Interface • Communications with a Host Computer through USB connection • Reads Track 1 and 2 of standard Magnetic Stripe Cards per ISO standards • No external power supply required • Can use standard Windows XP drivers for communications (HID). No third party device driver is required **Specifications:** • Power Supply Voltage: 5VDC • Operating Temperature/Humidity: 0°C ~ 60°C / 10 ~ 90%RH • Head Life: 300K passes

Fig. 6

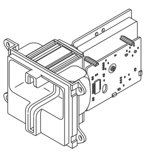

Manual Insertion Card Reader ZU-1870MA8R with Built-in RS-232 Interface and Decoder: **Specifications:** • Power Supply Voltage: 4.75V ~ 12V • Operating Temperature/Humidity: -10°C ~ 50°C / 10 ~ 90%RH • Head Life: 500K passes

Manual Insertion/Ejection Magnetic Card Reader ZU-1870MU with USB: • USB (Keyboard Emulation) Interface • Can use standard Windows XP driver for communications (HID). No third party device driver is required **Specifications:** Power Supply Voltage: 5VDC • Operating Temperature/Humidity: 0°C ~ 60°C / 10 ~ 90%RH • Head Life: 500K passes

ZU-1870MA8R/MU: **Applications:** • For Outdoor use • Twin read heads for ease of use • IPX4 rated for moisture resistance **Notes:** Cable is not included

Fig. 7

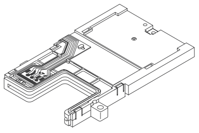

Manual Magnetic Card Reader ZU-9A36B1: **Specifications:** • Physical Dimensions: (W) 73mm x (H) 12.6mm x (D) 108.5mm • Mass: Approximately 50g **Power Source:** • Voltage: 5.0VDC (tolerance ±10%), Ripple 250mVp-p **Interface:** • Magnetic card: Direct output of decoder IC (/RCL,/RDT) **Environment:** • Operating Temperature/Humidity: 0°C ~ 55°C / 10 ~ 90%RH (non condensing) • Storage Temperature/Humidity: -20°C ~ 60°C / 5 ~ 95%RH (non condensing) **Specification of Magnetic Reading:** • Reading direction: Insertion/Ejection • Head Life: 300K passes • Core Width: 1.4mm • Reading Speed: 15cm/s ~ 70cm/s

Fig. 8

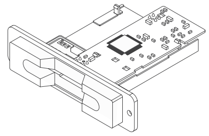

Manual Magnetic Card Reader ZU-M2242S3R2: • High precision, high reliability

Applications: • Credit card telephones • Gaming • Cost control for facsimiles and copiers • Security control systems • Time and attendance terminals

Specifications: • Power Supply Voltage: 5VDC ±10%, Ripple (less than 50mVp-p) • Operating Temperature/Humidity: -10°C ~ 50°C / 10 ~ 90%RH (No condensation allowed 24 hours) • Storage Temperature/Humidity: -20°C ~ 60°C / 10 ~ 95%RH (No condensation allowed 24 hours) • Head life: 300K passes

Fig.	Card Standard	Current (mA)	Card Feed Speed	Card Reading Direction	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Panasonic Part No.
1	IS02	3	8 ~ 150 cm/second	Swipe	PCR100-ND	28.22	22.58	18.35	ZU-M1121S1
1	IS02	3	8 ~ 150 cm/second	Swipe	PCR224-ND◆	34.82	27.86	22.64	ZU-M1121L1
1	IS01/IS02	6	10 ~ 150 cm/second	Swipe	PCR102-ND	43.56	34.85	28.32	ZU-M1242S1
1	IS01/IS02	6	10 ~ 150 cm/second	Swipe	PCR223-ND◆	50.16	40.13	32.61	ZU-M1242L1
1	IS01/IS02/IS03	9	10 ~ 120 cm/second	Swipe	PCR221-ND◆	97.40	77.92	63.31	ZU-M1363S1
2	IS02	10	10 ~ 120 cm/second	Insertion	PCR115-ND◆	44.60	35.68	28.99	ZU-M2121S21
3	IS01/IS02/IS03+Smart Card	15	10 ~ 80 cm/second	Ejection	PCR228-ND◆ ***NEW!***	150.00	120.00	97.50	ZU-98330SEA
3	IS02+Smart Card	15	10 ~ 80 cm/second	Ejection	PCR229-ND◆ ***NEW!***	118.00	94.40	76.70	ZU-98302SEA
4	IS01/IS02	25	10 ~ 100 cm/second	Ejection	PCR113-ND	74.00	59.20	48.10	ZU-1870MA6T2
4	IS02	15	10 ~ 120 cm/second	Ejection	PCR106-ND	55.86	44.69	36.31	ZU-1852MAL5
4	IS01/IS02	15	10 ~ 100 cm/second	Ejection	PCR107-ND	63.12	50.50	41.03	ZU-1870MA5T5
4	IS01/IS02	15	10 ~ 150 cm/second	Ejection	PCR109-ND◆	61.86	49.49	40.21	ZU-1870MA4T4
4	IS01/IS02	30	10 ~ 120 cm/second	RS-232, Ejection	PCR118-ND◆	105.00	90.98	79.44	ZU-1870MA8R2
4	IS01/IS02	40	10 ~ 120 cm/second	USB, Ejection	PCR226-ND◆ ***NEW!***	124.00	99.20	80.60	ZU-1870MU1
5	IS01/IS02	30	10 ~ 120 cm/second	RS-232, Ejection	PCR114-ND	109.00	87.20	70.85	ZU-1890MR02
5	IS01/IS02	15	10 ~ 150 cm/second	Ejection	PCR111-ND	67.50	54.00	43.88	ZU-1890M
5	IS01/IS02	100	10 ~ 120 cm/second	USB, Ejection	PCR220-ND◆	109.00	87.20	70.85	ZU-1890MU1
6	IS01/IS02	30	10 ~ 120 cm/second	RS-232, Ejection	PCR117-ND◆	125.50	100.40	81.58	ZU-1870MA8R
6	IS01/IS02	40	10 ~ 120 cm/second	USB, Ejection	PCR222-ND◆	122.00	97.60	79.30	ZU-1870MU
7	IS01/IS02/IS03	15	15 ~ 70 cm/second	Ejection	PCR119-ND◆	76.00	60.80	49.40	ZU-9A36B11
8	IS01/IS02	30	10 ~ 120 cm/second	Ejection	PCR225-ND◆	151.62	121.30	98.56	ZU-M2242S3R2
Cover for Single/Double Manual Swipe Reader (Use with PCR100-ND, PCR102-ND)					PCR104-ND	5.26	—	—	U1101M041
Bezel for ZU-M2121 Series (Use with PCR115-ND)					PCR116-ND◆	4.68	3.75	3.05	ZU-M202BB1
Bezel for ZU-M2121 Series ESD					PCR227-ND◆ ***NEW!***	4.68	3.75	3.05	ZU-M202BB2

Cable Assembly

PCR121-ND	Cable Assembly for PCR100-ND◆	**$7.55**
PCR122-ND	Cable Assembly for PCR102-ND◆	**$10.92**
PCR120-ND	Cable Assembly for PCR220-ND◆	**$12.58**
PCR123-ND	***NEW!*** Cable Assembly for PCR221-ND◆	**$14.02**

◆ ***RoHS Compliant***

OMRON® Magnetic Swipe Card Readers

Features: • Low cost • Compact • Manual swipe reader **Specifications:** • Low power C-Mos technology • TTL-compatible interface (clock and data) • Cable harness included on V3B Series only • Mating connector for V3A Series is WM1727-ND (Housing) and WM1775-ND (Contact)

Fig.	Color	Communication Interface	Cover	Supply Voltage	Track 1	Track 2	Track 3	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
Swipe Type												
1	Black	TTL (Clock + Data)	Yes	5VDC	—	Read	—	Z2066-ND	29.35	26.42	23.48	V3B-4K
	Ivory	TTL (Clock + Data)	Yes	5VDC	—	Read	—	Z2064-ND◆	26.10	23.49	20.88	V3A-4K
	Ivory	TTL (Clock + Data)	No	5VDC	Read	Read	—	Z2065-ND◆	40.05	36.05	32.04	V3A-6
	Ivory	RS232C (with cable)	Yes	5VDC	Read	Read	Read	Z2111-ND◆	198.08	178.27	158.46	3S4YR-HNF1
Insert Type Readers												
2	Black	TTL (Clock + Data)	No	5VDC	—	Read	—	Z2112-ND	43.19	38.88	34.56	3S4YR-SBR-4N-50
	Black	TTL (Clock + Data)	No	5VDC	—	—	—	Z2113-ND	131.53	118.38	105.23	3S4YR-SGR0J
	Black	TTL (Clock + Data)	No	5VDC	Read	Read	Read	Z2114-ND	182.14	163.93	145.72	3S4YR-SGR1N

◆ ***RoHS Compliant***

Fig. 1

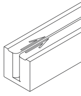

Fig. 2

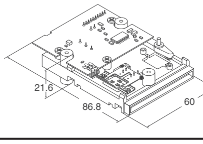

CITIZEN® Printers

THERMAL PRINTERS:

Use a non-impact method for printing. This is accomplished by using chemically treated thermal paper. Chemicals suspended in the paper react to heat generated by the print head to form dots that make up the characters or image. Citizen offers a thermal serial printer and a thermal line printer.

The serial printer uses a moving head that prints one character at a time, it is most suited for character printing, although the high speed model does support graphics. Its main benefit is low cost. Line printers have a fixed print head, printing one line at a time. It is suited for both high speed character and graphic printing. Its main benefits are higher definition graphic printing along with fewer moving parts.

INTERFACE BOARDS:

Acts as an interface between user's system and the thermal printer. Monitors temperature and paper status. Controls motor(s) and thermal head energy for optimal printing. Generates built in test pattern. Accepts both simplified Centronics or RS-232C (TTL only) interface.

NOTE: CBMA now markets the former Panasonic line of Thermal Printer Mechanisms. Please call Digi-Key for details.

Fig. 1 – Line Printer

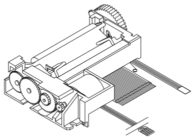

EPL1600 Series

- Compact size, light weight
- High resolution (8 dots/mm), high printing speed
- Operatable by batteries (4.2 to 8.5 volts)
- Low current consumption
- Semi-auto paper loading function

NOTE: Available in 58, 80, and 112mm paper widths

Fig. 2 – Miniature Line Printer

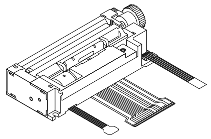

EPL1802S2 Series

- High speed printing
- Very small size
- Very light weight (40g)
- Low power consumption

Fig. 3 – Compact Line Printer

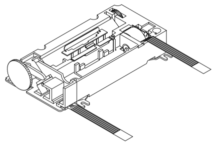

EPL1900 Series

- Compact size
- Low weight (55g)
- High reliability
- Easy maintenance

Fig.	Print Method	Paper Width	Head Volt	Logic Volt	Print Speed (max.)	Char. / Line	Head Life	Size (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Citizen Part No.
1	Line	80mm	5V	5V	400 dots-line/s max.	36/72	5x10^7 pulse/50km	101 x 52 x 20	471-1001-ND	127.76	117.81	109.40	102.51	EPL1602S3
2	Line	58mm	5V	5V	450 dots-line/s max.	24/48	1x10^8 pulse/50km	72 x 32 x 15	471-1032-ND	120.24	110.88	102.96	96.48	EPL1802S2
3	Line	58mm	5V	5V	300 dots-line/s max.	24/36	5x107 pulse/30km	82 x 41 x 15.8	471-1033-ND	40.93	37.75	35.05	32.85	EPL1902S2C

Interface Boards

EPLR1601Series

- Supports EPLR1600 series
- 364 built in character fonts
- ASCII JIS C6220 character codes
- Automatic loading
- Marker detection
- Bar code printing (UPC, JAN, EAN, CODE39, ITF, NW7)
- Operates on 5 volts EPLR1601

Description	Digi-Key Part No.	Price Each 1	10	100	250	Citizen Part No.
Interface Board for EPL1900 Series	471-1035-ND	208.75	192.50	178.75	167.50	EPLZR1901E
Power Cable for EPLR1601/1701 Interface Boards	471-1017-ND	8.02	7.40	6.87	6.44	EPLSRDSP303
RS232 Cable for EPLR1601/1701 Interface Boards	471-1019-ND	5.85	5.39	5.01	4.69	EPLSRDSP305
Centronics Cable for EPTR2000L/H Interface Boards	471-1021-ND	5.90	5.44	5.05	4.74	EPLSRDSP276
EPLR1601 CPU Replacement Chip for User Designed Interfaces	471-1023-ND	24.80	22.87	21.24	19.90	EPLSAR1601
EPLR1701 CPU Replacement Chip for User Designed Interfaces	471-1024-ND	24.80	22.87	21.24	19.90	EPLSAR1701

Thermal Line Printer CBM270

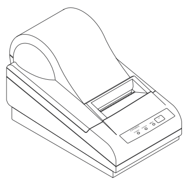

Features:

- Palm size
- Lightweight
- Availability of wall mount
- Paper auto loading
- Bar-code printing
- Compatibility (ESC/POS)
- Paper near end sensor
- 2K bytes input buffer
- Black and red printing with special paper (optional)

Applications:

• POS • Banking • Medical equipment • Coupon • Ticket • Daily report • Delivery • Barcode

Specifications:

• **Printing Method:** Line thermal dot printing • **Printing Width:** 48mm (384 dots/line) • **Printing Speed:** Maximum 50mm/second, 400 dot-line/second (11 lines/sec.) • **Number of Columns:** ***Font A:*** 32 columns; Font B: 42 columns • **Character Size (W x H):** ***Font A:*** 1.25 x 3.00mm (12 x 24 dots), ***Font B:*** 0.88 x 3.00 mm (9 x 24 dots) • **Dot Pitch:** 8 dots/mm • **Bar-code Type:** UPS-A/E, JAN (EAN), ITF, CODABAR, CODE 39, CODE 128 • **Line Spacing:** 4.23mm (1/6 inch), can be set by a command (Minimum 1/203 inch) • **Printing Paper:** ***Thermal Roll Paper:*** 58 x ø83mm (max.) ***Thickness:*** 60~75µm ***Thermal Label Paper:*** 58 x ø83 (maximum) ***Thickness:*** 150µm label ***Label Width:*** 56mm (maximum) ***Label Length:*** 25mm/pc (minimum) • **Interface:** ***Parallel:*** Centronics, ***Serial:*** RS-232C • **Input Buffer:** 2K bytes • **Paper Supply:** DC 7.2V 2A (Peak 6A) or AC adapter AC 100-240V (27 AD) • **Weight:** Approximately 600g • **External Dimensions (W x D x H):** 106 x 184 x 110mm • **Reliability:** ***Head:*** 50,000,000 pulses or 50km • **Safety Standard:** FCC class A, TUV-GS, CE marking

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
Parallel, 120V, Ivory	471-1050-ND	239.14	220.53	CBM-270PF 120V

Impact Printers IDP3550/3551

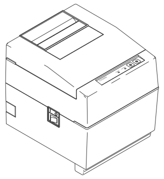

Features:

- High-speed printing
- Paper auto loading
- Compatibility (CBM, IDP, ESC/POS, Star)
- 6K bytes input buffer
- Auto cutter (iDP3551)
- Cash drawer kick out
- Pinfeed version (iDP3550P)
- Two color printing

Applications:

• Receipt • Journal • Ticket • Label • Credit/Debit • Daily report • Kitchen • Delivery

Specifications:

• **Printing Method:** Serial dot impact • **Printing Direction:** Bidirectional • **Font:** 7 x 9 matrix • **Number of Columns:** 40 columns • **Printing Speed:** 3.6 lines/second (DP-654); 3.0 lines/second (DP-657) • **Character Size (W x H):** 1.36 x 2.4mm (DP-654); 1.20 x 2.4mm (DP-657) • **Character Set:** Alphanumeric, International, Code page 437, 850, 860, 863, 865, 852, 866, 857, Windows code • **Line Spacing:** 4.23mm, 1/6" (DP-654); 2.82mm (DP-657) • **Character Pitch:** 1.59mm (DP-654); 1.46mm (DP-657) • **Line Feed Speed:** 18 lines/second (DP-654); 15 lines (DP-657) • Paper Feed Method: Friction • **Paper:** 76mm roll paper • **Interface:** ***Parallel:*** Centronics ***Serial:*** RS-232C or Current loop • **Input Buffer:** 6K bytes • **Paper End Sensor:** Equipped • **Paper Cutter:** None (iDP3550); Partial/Full cut (iDP3551F) • **Paper Winder:** AW-3 (Option) • **Cash Drawer Control:** 2 drawers • **Ink Ribbon:** Red/Black, Cassette • **Power Supply:** AC 120V • **Power Consumption:** 30W • **Weight:** 2.8kg (iDP3550); 3.0kg (iDP3551F) • **External Dimensions (W x D x H):** 160 x 212 x 194mm (iDP3550); 160 x 212 x 173mm (iDP3551F) • **Operating Temperature Range:** 0°C ~ 40°C • **Storage Temperature Range:** -20°C ~ 60°C • **Reliability:** ***Printer:*** MCBF 4.0 million lines ***Head:*** 80 million characters ***Cutter:*** 500,000 cuts (iDP3551F) • **Safety Standard:** UL, C-UL, FCC class A, TUV-GS, CE marking

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
Cool White, 120V, Parallel	471-1057-ND	245.69	226.57	IDP3550PF-CW
Cool White, 120V, Serial	471-1058-ND	245.69	226.57	IDP-3550RF-CW
Cool White, 120V, Serial Cutter	471-1062-ND	274.70	253.32	IDP-3551RF-CW

Thermal Transfer Printer Labels, Cassettes and Accessories

LS6 Thermal Transfer Printer Labels

Fig. 1

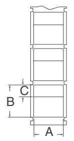

Fig. 2

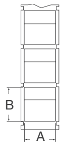

Self-Laminating Wire Markers — Vinyl

Fig.	Label Size A x B x C (In.)	Cable O.D. Range (In.)	For THHN Cable Size	Digi-Key Part No.	Roll Pricing 250	Panduit Part No.
1	1.50 x 1.25 x 0.50	0.16 – 0.24	8 AWG	298-1257-ND	43.37	TWS-3V

Component Labels

Fig.	Label Size A x B (In.)	Material	Color	Digi-Key Part No.	Roll Pricing 250	Panduit Part No.
2	1.00 x 0.75	Vinyl Cloth	White	298-4004-ND	31.89	TC-4C

Printer Accessories

Description	Digi-Key Part No.	Price Each	Panduit Part No.
Replacement Battery Pack	298-1227-ND	110.08	LS6-BP
Replacement AC Adapter/Battery Charger	298-1226-ND	104.65	LS6-ACS

LS7 Thermal Transfer Printer Accessories

Description	Digi-Key Part No.	Price Each	Panduit Part No.
120VAC Adapter	298-1347-ND	54.04	LS7-ACS

Laser Printable Labels

(Functions with most Desktop Laser Printers)

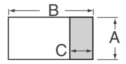

Laser Self-Laminated Wire Markers — White Polyester (Box)

Label Size		Cable O.D.					
A x B (In.)	C Print Area (In.)	Range (In.)	For THHN Cable Size	Digi-Key Part No.	Roll Qty.	Pricing	Panduit Part No.
1.00 x 1.00	0.34	0.11 – 0.21	12-10 AWG	298-1162-ND	2,500	200.54	LJSL4-Y3-2.5
1.00 x 1.33	0.50	0.16 – 0.26	8-6 AWG	298-1163-ND	2,500	238.99	LJSL5-Y3-2.5
1.00 x 3.17	0.97	0.31 – 0.70	4-4/0 AWG	298-1164-ND	1,000	196.25	LJSL6-Y3-1
2.00 x 3.17	1.00	0.32 – 0.69	4-4/0 AWG	298-1169-ND	1,000	247.81	LJSL8-Y3-1
0.50 x 1.50	0.50	0.16 – 0.32	8-6 AWG	298-1174-ND	5,000	239.08	LJSL2-Y3-5
2.00 x 1.50	0.50	0.16 – 0.32	8-6 AWG	298-1175-ND	1,000	232.73	LJSL7-Y3-1

Laser Component Labels — Polyester (Box)

Label Size A x B (In.)	Color	Digi-Key Part No.	Roll Qty.	Pricing	Panduit Part No.
1.50 x 0.25	White	298-1165-ND◆	10,000	232.46	PLL-14-Y2-10
1.88 x 0.25	White	298-1166-ND	10,000	288.67	PLL-15-Y2-10
3.00 x 0.38	White	298-1167-ND◆	1,000	94.59	PLL-19-Y2-1
0.80 x 0.20	White	298-1168-ND◆	10,000	199.93	PLL-20-Y2-10
0.38 x 0.38	White	298-1170-ND◆	10,000	153.12	PLL-2-Y2-10
0.50 x 0.44	White	298-1172-ND◆	10,000	223.76	PLL-31-Y2-10
0.65 x 0.20	White	298-1173-ND◆	10,000	169.65	PLL-32-Y2-10
0.80 x 0.25	White	298-1176-ND◆	10,000	199.93	PLL-5-Y2-10
1.00 x 0.38	White	298-1177-ND◆	10,000	276.14	PLL-8-Y2-10
1.00 x 0.50	White	298-1178-ND◆	10,000	334.78	PLL-9-Y2-10

◆ *RoHS Compliant*

NAKAGAWA MFG. (USA), INC.

Thermal Paper

Quality thermal paper available in 58, 60, 80 and 112mm paper widths.

SPECIFICATIONS:
• **Paper core:** 12mm • **Paper length:** 30M • **Outer diameter:** 55mm • **End mark:** Red, 50cm from end of roll • **Paper weight:** 65μm • **Print life:** Greater than 5 years when stored in a dark location, 25°C or less, 65% R.H. max.

Description	Digi-Key Part No.	Price Each 1	10	100	250	Nakagawa Part No.
58mm Thermal Printer Paper	PT1028-ND	2.20	1.76	1.54	1.47	EPT-58
60mm Thermal Printer Paper	PT1029-ND	2.38	1.90	1.67	1.59	EPL-60
80mm Thermal Printer Paper	PT1030-ND	2.88	2.30	2.02	1.93	EPT-80
112mm Thermal Printer Paper	PT1031-ND	3.10	2.48	2.17	2.08	EPL-112

3M Cable Ties

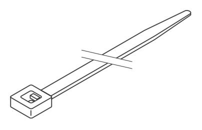

3M Cable Ties secure wire bundles and harness components quickly, without slipping.
The self-locking head, with heavy double teeth on the one piece lock mechanism.
Molded from 6/6 nylon, 3M cable ties are designed to meet a wide range of temperatures from -40°F ~ 185°F (-40°C ~ 85°C).
Weather resistant black nylon for indoor and outdoor use and natural nylon for indoor use only.

Cable Tie Type	Dimensions – Inch (mm) Length	Width	Max. Bundle Diameter	Tensile Lb/Kg	Color	Digi-Key Part No.	Bag Qty.	Price Each	3M Part No.	Digi-Key Part No.	Bag Qty.	Price Each	3M Part No.
Miniature	4.0 (101.6)	.10 (2.54)	.8 (20.32)	18 (8.16)	Natural	3M101C-ND◆	100	2.84	41931	3M101M-ND◆	1,000	14.90	41932
	4.0 (101.6)	.10 (2.54)	.8 (20.32)	18 (8.16)	Black	3M101BKC-ND◆	100	3.12	41929	3M101BKM-ND◆	1,000	16.60	41930
	6.0 (152.4)	.10 (2.54)	1.7 (43.18)	18 (8.16)	Natural	3M110C-ND◆	100	4.69	43400	3M110M-ND◆	1,000	27.32	43401
	6.0 (152.4)	.10 (2.54)	1.7 (43.18)	18 (8.16)	Black	3M110BKC-ND◆	100	5.50	43500	3M110BKM-ND◆	1,000	31.21	43510
	8.0 (203.2)	.10 (2.54)	2.2 (55.88)	18 (8.16)	Natural	3M111C-ND◆	100	5.64	43540	3M111M-ND◆	1,000	32.83	43541
	8.0 (203.2)	.10 (2.54)	2.2 (55.88)	18 (8.16)	Black	3M111BKC-ND◆	100	6.73	43547	—	—	—	—
Inter-mediate	5.7 (144.78)	.14 (3.56)	1.4 (35.56)	40 (18.14)	Natural	3M102C-ND◆	100	5.14	41935	3M102M-ND◆	1,000	29.77	41936
	5.7 (144.78)	.14 (3.56)	1.4 (35.56)	40 (18.14)	Black	3M102BKC-ND◆	100	6.03	41933	3M102BKM-ND◆	1,000	34.06	41934
Standard	7.5 (190.5)	.18 (4.57)	1.9 (48.26)	50 (22.68)	Natural	3M103C-ND◆	100	6.20	41937	3M103M-ND◆	1,000	36.18	41938
	7.5 (190.5)	.18 (4.57)	1.9 (48.26)	50 (22.68)	Black	3M103BKC-ND◆	100	7.45	41939	3M103BKM-ND◆	1,000	42.52	41940
	11.3 (287.02)	.18 (4.57)	3.1 (78.74)	50 (22.68)	Natural	3M104C-ND◆	100	11.88	41941	3M106D-ND◆	1,000	73.80	43200
	11.3 (287.02)	.18 (4.57)	3.1 (78.74)	50 (22.68)	Black	3M104BKC-ND◆	100	13.08	41943	3M106BKD-ND◆	1,000	79.92	43201
	14.5 (368.3)	.18 (4.57)	4.1 (104.14)	50 (22.68)	Natural	3M105C-ND◆	100	17.10	41978	3M105D-ND◆	500	71.40	41952
	14.5 (368.3)	.18 (4.57)	4.1 (104.14)	50 (22.68)	Black	3M105BKC-ND◆	100	18.48	41977	3M105BKD-ND◆	500	82.20	41948
Heavy Duty	15.1 (383.54)	.30 (7.62)	4.0 (101.6)	120 (54.43)	Natural	3M107HDC-ND◆	100	30.12	43202	3M105HDD-ND◆	500	148.80	41950
	15.1 (383.54)	.30 (7.62)	4.0 (101.6)	120 (54.43)	Black	3M107HDBKC-ND◆	100	33.42	43203	3M105HDBKD-ND◆	500	165.00	41946
Extra Heavy Duty	37.1 (942.34)	.34 (8.64)	11 (279.4)	175 (79.38)	Natural	3M109HDL-ND	50	61.71	43206	—	—	—	—
	37.1 (942.34)	.34 (8.64)	11 (279.4)	175 (79.38)	Black	3M109HDBKL-ND	50	67.86	43207	—	—	—	—
	48 (1219.2)	.35 (8.89)	15 (381)	175 (79.38)	Black	3M114HDBKL-ND◆	50	111.72	43575	—	—	—	—

◆ *RoHS Compliant*

Fig. 1
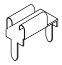

Fig. 2
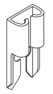

Fig. 3
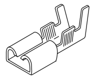

Fig. 4
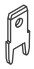

Fig. 5
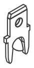

Fig. 6
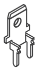

Fig. 7
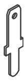

Fig. 8
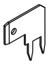

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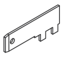

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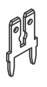

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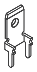

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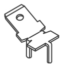

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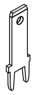

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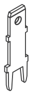

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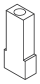

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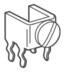

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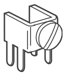

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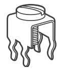

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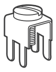

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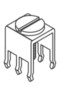

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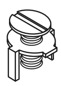

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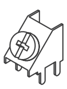

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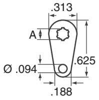

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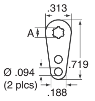

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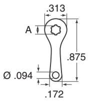

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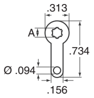

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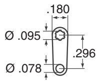

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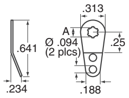

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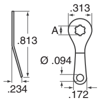

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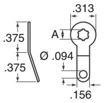

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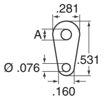

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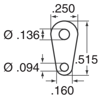

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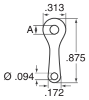

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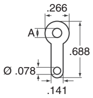

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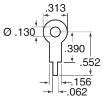

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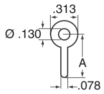

Fig.	Description	Dim. A	Digi-Key Part No.	Pricing 10	Pricing 100
	PC Quick-Fit Tab Terminal				
1	.110” Female, Horizontal	—	3545K-ND◆	4.57	32.35
1	.110” Female, Horizontal	—	3549K-ND◆	4.57	32.35
1	.205” Female, Horizontal	—	3546K-ND◆	4.76	33.80
1	.205” Female, Horizontal	—	3550K-ND◆	4.76	33.80
1	.250” Female, Horizontal	—	3547K-ND◆	4.37	35.40
2	.110” Female, Vertical	—	3534K-ND◆	2.16	11.85
2	.110” Female, Vertical	—	3544K-ND◆	2.16	11.85
2	.205” Female, Vertical	—	3525K-ND◆	2.16	11.85
2	.250” Female, Vertical	—	3528K-ND◆	2.16	11.85
2	.187” Female, Vertical	—	3548K-ND◆	2.16	11.85
2	.187” Female, Vertical	—	3551K-ND◆	2.16	11.85
2	.205” Quick-Fit Vertical Terminal	—	3522K-ND◆	1.46	7.70
3	.110” Female, 18-22 Gage	—	1252K-ND◆	1.66	11.65
3	.187” Female, 16-22 Gage	—	1264K-ND◆	3.99	28.25
3	.205” Female, 16-20 Gage	—	4469K-ND◆	4.80	38.95
3	.250” Female, 16-20 Gage	—	4470K-ND◆	3.03	21.60
4	.205” Male, .020 Brass, Tin Plate, .046 Diameter	—	1286K-ND◆	1.00	5.30
4	.205” Male, .032 Brass, Tin Plate, .052 Diameter	—	1213K-ND◆	1.01	7.85
5	.205” Male, .020 Brass, Tin Plate, .046 Diameter	—	1286-STK-ND◆	.94	6.65
5	.205” Male, .032 Brass, Tin Plate, .052 Diameter	—	1213-STK-ND◆	1.13	5.25
6	.187” Male, .020 Brass, Tin Plate, .043 Diameter	—	4900K-ND◆	1.52	10.80
4	.187” Male, .020 Brass, Tin Plate, .046 Diameter	—	1285K-ND◆	.89	6.45
4	.187” Male, .032 Brass, Tin Plate, .052 Diameter	—	1212K-ND◆	1.03	5.45
5	.187” Male, .020 Brass, Tin Plate, .046 Diameter	—	1285-STK-ND◆	.93	4.90
5	.187” Male, .032 Brass, Tin Plate, .052 Diameter	—	1212-STK-ND◆	1.03	5.45
7	.110” Male, .020 Brass, Tin Plate, .046 Diameter	—	1267K-ND◆	1.14	8.25
7	.110” Male, .032 Brass, Tin Plate, .052 Diameter	—	1211K-ND◆	1.20	9.00
8	.110” Male, .020 Brass, Tin Plate, .046 Diameter	—	4903K-ND◆	2.38	16.95
8	.110” Male, .032 Brass, Tin Plate, .052 Diameter	—	4906K-ND◆	2.44	17.05
8	.187” Male, .020 Brass, Tin Plate, .046 Diameter	—	4904K-ND◆	2.28	16.20
8	.187” Male, .032 Brass, Tin Plate, .052 Diameter	—	4907K-ND◆	2.34	16.30
8	.250” Male, .032 Brass, Tin Plate, .056 Diameter	—	4966K-ND◆	1.72	9.30
8	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1266K-ND◆	2.52	13.35
9	.250” Male, .032 Brass, Tin Plate, .106 Diameter	—	1265K-ND◆	2.46	12.95
4	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1287K-ND◆	1.10	7.85
5	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1287-STK-ND◆	1.10	7.85
10	.110”/.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1282K-ND◆	1.10	7.85
6	.250” Male, .032 Brass, Tin Plate, .067 Diameter	—	4901K-ND◆	2.25	11.95
11	.250” Male, .032 Brass, Tin Plate, .067 Diameter	—	4902K-ND◆	1.52	10.80
12	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	4908K-ND◆	3.23	22.95
13	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1289K-ND◆	1.70	7.95
13	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1289-STK-ND◆	1.65	8.75
14	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1281K-ND◆	2.75	14.55
15	.250” Quick-Fit Vinyl Boot, Clear	—	4471K-ND◆	1.21	8.80
15	.250” Quick-Fit Vinyl Boot, Red	—	4472K-ND◆	1.21	8.80
15	.250” Quick-Fit Vinyl Boot, Blue	—	4473K-ND	1.21	8.80
15	.250” Quick-Fit Vinyl Boot, Yellow	—	4474K-ND◆	1.21	8.80
—	Terminal Hand Insertion Tool	—	1288K-ND◆	39.42/1	
	MT Screw Terminal — RoHS Compliant				
16	Snap-In PC Horizontal	—	7690K-ND	5.09	27.25
16	Snap-In PC Horizontal, Captivated	—	7692K-ND†	5.09	32.35
17	PC Horizontal	—	8190K-ND	3.48	25.40
17	PC Horizontal, Captivated	—	7700K-ND†	4.80	28.15
18	Snap-In PC Vertical	—	7691K-ND	3.51	26.80
18	Snap-In PC Vertical, Captivated	—	7693K-ND†	4.86	30.80
19	PC Vertical	—	8191K-ND	3.21	25.00
19	PC Vertical, Captivated	—	7701K-ND†	4.57	28.95
20	Terminal PC Vertical, Heavy Duty	—	8196K-ND	7.87	47.55
21	Terminal Insert 10/32 Thread, Captivated	—	1202K-ND	9.47	76.85

Fig.	Description	Dim. A	Digi-Key Part No.	Pricing 10	Pricing 100
21	Screw Terminal Insert 10/32	—	1299K-ND	9.47	76.85
22	Screw Supplied Unassembled	—	8189K-ND	9.17	68.75
22	Screw Installed and Captivated	—	7702K-ND	10.45	55.50
	Lockwasher Terminal Lugs — RoHS Compliant				
23	.018 Brass, Tin Plate	.120	908K-ND	1.33	10.00
23	.018 Brass, Tin Plate	.140	914K-ND	1.33	10.00
23	.018 Brass, Tin Plate	.171	915K-ND	1.33	10.00
24	.018 Brass, Tin Plate	.120	910K-ND	1.39	10.30
24	.018 Brass, Tin Plate	.140	918K-ND	1.39	10.30
24	.018 Brass, Tin Plate	.171	906K-ND	1.51	10.30
25	.018 Brass, Tin Plate	.120	903K-ND	1.43	10.75
25	.018 Brass, Tin Plate	.140	904K-ND	1.43	10.75
25	.018 Brass, Tin Plate	.171	905K-ND	1.43	10.75
26	.018 Brass, Tin Plate	.120	909K-ND	1.46	10.85
26	.018 Brass, Tin Plate	.140	916K-ND	1.46	10.85
26	.018 Brass, Tin Plate	.171	917K-ND	1.46	10.85
27	.013 Brass, Tin Plate	—	907K-ND	2.33	16.45
28	.018 Brass, Tin Plate	.120	7311K-ND	1.39	10.30
28	.018 Brass, Tin Plate	.140	7312K-ND	1.39	10.30
28	.018 Brass, Tin Plate	.171	7313K-ND	1.39	10.30
29	.018 Brass, Tin Plate	.120	7317K-ND	1.43	10.75
29	.018 Brass, Tin Plate	.140	7318K-ND	1.43	10.75
29	.018 Brass, Tin Plate	.171	7319K-ND	1.43	10.75
30	.018 Brass, Tin Plate	.120	7314K-ND	1.46	10.85
30	.018 Brass, Tin Plate	.140	7315K-ND	1.46	10.85
30	.018 Brass, Tin Plate	.171	7316K-ND	1.46	10.85
	Solder Terminal Lugs — RoHS Compliant				
31	.015 Brass, Tin Plate	.120	7328K-ND	1.26	9.45
31	.015 Brass, Tin Plate	.140	7329K-ND	1.26	9.45
31	.015 Brass, Tin Plate	.171	7330K-ND	1.26	9.45
32	.016 Brass, Tin Plate	—	4004K-ND	1.12	7.85
33	.020 Brass, Tin Plate	.120	7331K-ND	1.36	9.85
33	.020 Brass, Tin Plate	.140	7332K-ND	1.36	9.85
33	.020 Brass, Tin Plate	.171	7333K-ND	1.32	9.85
34	.020 Brass, Tin Plate	.120	7325K-ND	1.32	9.85
34	.020 Brass, Tin Plate	.140	7326K-ND	1.36	9.85
34	.020 Brass, Tin Plate	.171	7327K-ND	1.32	9.85
	Terminal Lugs — RoHS Compliant				
35	.015 Brass, Tin Plate	—	680K-ND	1.47	10.80
36	.020 Brass, Tin Plate	.500	4000K-ND	1.16	6.10
36	.020 Brass, Tin Plate	.562	4001K-ND	1.16	6.55
36	.020 Brass, Tin Plate	.750	4002K-ND	1.28	9.00
36	.020 Brass, Tin Plate	1.000	4003K-ND	1.39	9.95
	Double Turret Series — RoHS Compliant				
—	TL-1 Brass, Tin Plate, .084” Length	—	1593-2K-ND	1.99	14.30
—	TL-1 Brass, Tin Plate, .082” Length	—	1573-2K-ND	2.16	19.35
—	TL-2 Brass, Tin Plate, .109” Length	—	1502-2K-ND	2.63	19.60
	Tubular (Hollow) Turret Series — RoHS Compliant				
—	TL-2 Brass, Tin Plate, .084” Length	—	1562-2K-ND	2.86	25.45
	PC Test Point Terminals — RoHS Compliant				
—	.020 Brass, Tin Plate, Slotted, .032” Diameter	—	1031K-ND	1.70	8.80
—	.025 Brass, Tin Plate, Slotted, .118” Diameter	—	1040K-ND	1.49	7.55
—	.025 Brass, Tin Plate, Loop, .040” Diameter	—	1249K-ND	1.73	8.90
—	.025 Brass, Tin Plate, Loop, .050” Diameter	—	1045K-ND	3.44	17.60
—	.025 Brass, Tin Plate, Loop, .098” Diameter	—	4952K-ND	1.55	10.90
	90° Quick-Fit Rivet Terminal — RoHS Compliant				
—	.250” Tab, .032 Brass, 3 Pairs, .130” Diameter	—	1006K-ND	5.39	43.85

◆ *RoHS Compliant* † Screw Installed and Captivated

Round Aluminum Spacers (Non Threaded)

Materials: Brass: Nickel Plate (QQ-N-290)
• **Aluminum:** Iridite Finish (MIL-C-5541)

Clearance Hole: • .120" for #4 Screw • .140 for #6 Screw • .171 for #8 Screw

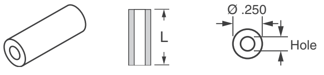

Screw (Hole)	Dim. L (Inch)	Brass Spacers Part No.	Pricing 10	Pricing 100	Aluminum Spacers Part No.	Pricing 10	Pricing 100
#4 (.120)	.125	1909K-ND◆	3.64	26.05	2036K-ND◆	2.13	13.20
	.250	1454AK-ND◆	4.14	29.65	3457K-ND◆	2.49	13.45
	.375	1454BK-ND◆	4.87	34.25	3458K-ND◆	2.96	16.00
	.500	1454CK-ND◆	5.38	37.55	3459K-ND◆	3.23	17.75
	.625	1919K-ND◆	8.24	58.10	2314K-ND◆	3.57	20.05
	.750	1454DK-ND◆	7.08	57.20	3460K-ND◆	4.00	21.60
	.875	1920K-ND	6.53	53.75	3402K-ND	4.49	27.00
	1.000	1454EK-ND◆	7.73	66.56	3461K-ND◆	4.28	28.15
	1.500	1924K-ND	16.62	107.80	3462K-ND	11.03	65.45
	2.000	1925K-ND	22.03	142.90	3463K-ND	11.72	76.05
#6 (.140)	.125	1934K-ND◆	3.64	26.05	3403K-ND◆	2.13	13.20
	.250	1457AK-ND◆	4.14	29.65	3464K-ND◆	2.49	13.45
	.375	1457BK-ND◆	4.50	31.65	3465K-ND◆	2.96	16.00
	.500	1457CK-ND◆	5.28	37.60	3466K-ND◆	3.23	17.75
	.625	1935K-ND◆	6.08	42.90	3429K-ND◆	3.57	20.05
	.750	1457DK-ND◆	5.38	43.45	3467K-ND◆	4.00	21.60
	.875	1936K-ND◆	8.09	66.55	3438K-ND◆	4.49	27.00
	1.000	1457EK-ND◆	7.95	68.41	3468K-ND◆	4.28	28.15
	1.500	1937K-ND	16.62	107.80	3469K-ND◆	10.37	61.50
	2.000	1938K-ND	21.90	142.70	3470K-ND	11.72	76.05
#8 (.171)	.125	1942K-ND◆	3.64	26.05	4258K-ND◆	2.13	13.20
	.250	1480K-ND◆	4.14	29.65	3471K-ND◆	2.49	13.45
	.375	1481K-ND◆	4.41	31.60	3472K-ND◆	2.96	16.00
	.500	1482K-ND◆	5.28	37.60	3473K-ND◆	3.23	17.75
	.625	2032K-ND◆	5.89	42.35	4259K-ND◆	3.57	20.05
	.750	1483K-ND◆	5.23	43.05	3474K-ND◆	4.00	21.60
	.875	2033K-ND	8.09	66.55	4260K-ND◆	4.49	27.00
	1.000	1484K-ND	8.33	68.25	3475K-ND◆	4.28	28.15
	1.500	2034K-ND	16.62	107.80	3476K-ND	10.02	59.45
	2.000	2035K-ND	21.90	142.70	3477K-ND◆	11.72	76.05

◆ *RoHS Compliant*

Nylon Spacers

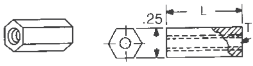

Hex Threaded Standoffs

Material: Nylon 6/6 Economical for terminal or printed circuit board supports.

Dim. L (Inch)	4-40 Thread Part No.	6-32-Thread Part No.	8-32 Thread Part No.	Pricing 10	Pricing 100
.250	1902AK-ND	1903AK-ND	1904AK-ND	5.40	32.60
.375	1902BK-ND	1903BK-ND	1904BK-ND	5.53	33.35
.500	1902CK-ND	1903CK-ND	1904CK-ND	5.76	34.90
.625	1902FK-ND	1903FK-ND	1904FK-ND	5.02	41.25
.750	1902DK-ND	1903DK-ND	1904DK-ND	7.40	44.70
.875	1902GK-ND	1903GK-ND	1904GK-ND	5.65	46.55
1.000	1902EK-ND	1903EK-ND	1904EK-ND	8.51	43.61

Hex Threaded Standoffs - Flame Retardant

Material: Monsanto 340 FR UL 94V-0 rating

Dim. L (Inch)	4-40 Thread Part No.	6-32 Thread Part No.	8-32 Thread Part No.	Pricing 10	Pricing 100
.250	8440AK-ND◆	8441AK-ND◆	8442AK-ND	5.98	49.10
.375	8440BK-ND◆	8441BK-ND◆	8442BK-ND	6.11	50.25
.500	8440CK-ND◆	8441CK-ND◆	8442CK-ND◆	6.36	52.10
.625	8440DK-ND◆	8441DK-ND◆	8442DK-ND	7.57	61.40
.750	8440EK-ND◆	8441EK-ND◆	8442EK-ND◆	21.96	153.48
.875	8440FK-ND◆	8441FK-ND◆	8442FK-ND	7.85	64.70
1.000	8440GK-ND◆	8441GK-ND◆	8442GK-ND◆	8.23	67.60

◆ *RoHS Compliant*

Round Thru-Hole Spacers

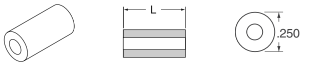

Material: Nylon 6/6

Dim. L (Inch)	#4 Screw .120 Hole Part No.	#6 Screw .140 Hole Part No.	#8 Screw .171 Hole Part No.	Pricing 10	Pricing 100
.125	875K-ND	883K-ND	891K-ND	1.41	10.80
.250	876K-ND	884K-ND	892K-ND	1.54	11.85
.375	877K-ND	885K-ND	893K-ND	1.63	14.70
.500	878K-ND	886K-ND	894K-ND	1.72	16.20
.625	879K-ND	887K-ND	895K-ND	1.86	16.95
.750	880K-ND	888K-ND	896K-ND	1.89	18.20
.875	881K-ND	889K-ND	897K-ND	2.05	20.15
1.000	882K-ND	890K-ND	898K-ND	2.30	21.54

Rubber Grommets

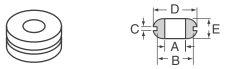

I.D. A (In.)	For Hole B (Inch)	For Panel C (Inch)	Dim. (Inch) D	Dim. (Inch) E	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500
.125	.187	.062	.312	.187	730K-ND◆	1.26	9.20	38.25
.125	.250	.062	.343	.187	733K-ND◆	1.14	8.25	36.00
.125	.437	.062	.625	.187	734K-ND◆	10.30	84.75	360.25
.125	.375	.093	.500	.312	735K-ND◆	4.29	30.80	131.00
.187	.312	.062	.437	.218	736K-ND◆	1.38	9.85	43.00
.187	.312	.062	.437	.218	731K-ND◆	1.38	9.85	43.00
.187	.281	.093	.437	.218	737K-ND◆	3.30	23.70	100.75
.250	.437	.062	.625	.187	738K-ND◆	3.42	24.60	105.25
.250	.375	.062	.562	.250	739K-ND◆	1.74	12.70	53.25
.250	.375	.093	.500	.250	740K-ND◆	2.96	21.15	90.50
.312	.562	.062	.812	.312	741K-ND◆	5.38	44.35	187.75
.312	.437	.062	.625	.281	742K-ND◆	2.40	17.15	73.50
.312	.437	.093	.625	.312	743K-ND◆	3.67	26.50	112.25
.375	.625	.062	.875	.312	744K-ND◆	5.79	47.45	202.50
.375	.500	.062	.625	.250	745K-ND◆	1.88	13.60	57.75
.437	.562	.062	.750	.250	732K-ND◆	2.47	16.80	73.50
.437	.687	.062	.937	.312	746K-ND◆	6.39	52.75	223.50
.500	.812	.062	1.062	.312	747K-ND◆	6.67	53.10	226.25
.500	1.250	.062	1.500	.25	748K-ND	8.13	66.70	283.50
.500	.750	.093	.968	.281	749K-ND◆	3.46	31.99	135.75
.562	.812	.062	1.062	.312	750K-ND	7.85	64.55	274.25
.625	.875	.062	1.125	.312	752K-ND◆	4.49	34.20	144.75
.625	1.250	.062	1.500	.250	753K-ND	11.80	97.00	412.00
.750	1.062	.062	1.375	.375	755K-ND◆	12.03	99.05	420.75
.750	1.437	.062	1.812	.375	756K-ND	24.99	217.50	925.00
.875	1.250	.062	1.625	.437	757K-ND◆	17.09	151.30	643.75

◆ *RoHS Compliant*

Threaded Mounting Brackets

Fig. 1

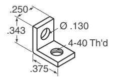

Fig. 2

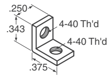

Fig. 3

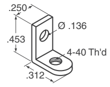

Fig. 4

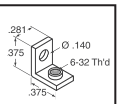

Fig. 5

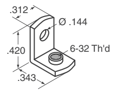

Fig. 6

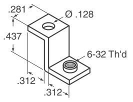

Fig. 7

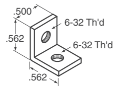

Fig. 8

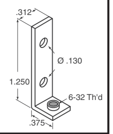

Fig. 9

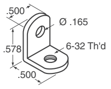

Fig. 10

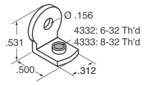

Fig. 11

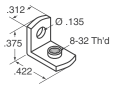

Fig. 12

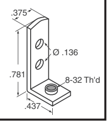

Fig.	Description	Digi-Key Part No.	Pricing 10	Pricing 100
1	.062 Steel, Zinc Plate	612K-ND	2.19	14.80
2	.062 Steel, Zinc Plate	621K-ND	2.82	19.15
3	.047 Brass, Tin Plate	616K-ND	4.35	35.25
4	.032 Brass, Nickel Plate	634K-ND	4.60	29.20
5	.032 Brass,Tin Plate	614K-ND	2.51	19.15
6	.032 Brass, Tin Plate	630K-ND	12.99	103.50
7	.062 Steel, Nickel Plate	4334K-ND	6.03	36.45
8	.062 Steel, Nickel Plate	708K-ND	7.55	62.40
9	.062 Steel, Tin Plate	617K-ND	4.29	34.90
10	.062 Brass, Nickel Plate	4332K-ND	7.04	64.80
10	.062 Brass, Nickel Plate	4333K-ND	7.04	64.80
11	.037 Brass, Tin Plate	611K-ND	4.79	38.95
12	.037 Steel, Tin Plate	631K-ND	4.20	34.05

Prepunched Insulating Boards

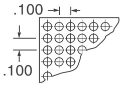

Dimension – Inch Width	Dimension – Inch Length	Digi-Key Part No.	Pricing 1	Pricing 10	Keystone Part No.
		Perfboard — Holes .042" (1.07mm) Dia., Glass Epoxy			
2.00	4.50	3405K-ND	5.22	48.72	3405
2.00	6.00	3406K-ND	6.81	63.56	3406
2.75	17.00	3407K-ND	20.40	190.40	3407
3.00	4.50	3408K-ND	7.11	66.36	3408
4.50	6.00	3409K-ND	9.96	92.96	3409
4.50	6.50	3410K-ND	11.52	107.52	3410
4.50	8.50	3411K-ND	12.24	114.24	3411
4.50	17.00	3412K-ND	27.99	261.24	3412
6.00	17.00	3413K-ND	37.68	351.68	3413

Miscellaneous Hardware

Description	Digi-Key Part No.	Pricing 1	Pricing 10	Keystone Part No.
	LED Spacer Mounts			
Universal Tri-Lead T-1 & T-1 3/4, 0.120"L	8900K-ND	.16	1.53	8900
Universal Tri-Lead T-1 & T-1 3/4, 0.440"L	8918K-ND	.19	1.83	8918
Self-Aligning Bi-Lead T-1, 0.140"L	7352K-ND	.16	1.53	7352
Self-Aligning Bi-Lead T-1 3/4, 0.250"L	8318K-ND	.17	1.59	8318
Self-Aligning Bi-Lead T-1 3/4, 0.340"L	8323K-ND	.18	1.65	8323
	Spacers			
Aluminum Economy, #6 screw, 0.625"L	410K-ND	.13	1.27	410
Round, Swage Clear, #6 screw, 0.109"L	5064-2K-ND	.63	5.55	5064-2
	Threaded Standoff			
Force-Fit, 4-40 Thread, 0.065"L	4861K-ND	.70	6.16	4861
Phenolic, 6-32 Thread, 0.750"L	386K-ND	.85	7.43	386
Round Swage, 2~56 Thread, 0.125"L	1589-2K-ND	.50	4.73	1589-2
Hex Swage, 6-32 Thread, 0.375"L	1622-2K-ND	.67	5.90	1622-2
PCI Computer Bracket	9203K-ND	2.15	19.80	9203K

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE
ELECTRONICS CORP

Threaded Standoffs

- **Brass:** ASTM-B16
  Plating: Zinc (ASTM B633)
- **Aluminum:** QQ-A-225/3, Alloy 2011-T3
  Plating: Clear Iridite (Mil-C-5541)

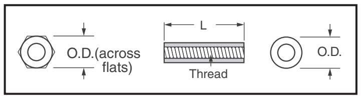

Note: Spacers over 1.000 long are tapped .375 deep each end.

Thread	O.D.	"L" Length (Inch)	Hex Thread Part No.	Pricing 10	Pricing 100	Round Thread Part No.	Pricing 10	Pricing 100
Aluminum								
2-56	.156	.187	1797AK-ND◆	5.55	45.60	1801AK-ND	5.22	42.90
		.250	1797BK-ND◆	5.96	48.90	1801BK-ND◆	5.16	42.60
		.312	1797CK-ND◆	6.20	51.00	1801CK-ND◆	5.58	46.10
		.375	1797DK-ND◆	6.39	52.55	1801DK-ND◆	6.45	53.10
4-40	.187	.250	1891K-ND◆	3.36	20.45	2025K-ND◆	3.33	20.05
		.375	1892K-ND	3.95	23.80	2026K-ND◆	3.85	23.60
		.500	1893K-ND◆	4.35	27.80	2027K-ND◆	4.24	25.70
		.625	1894K-ND◆	4.47	30.25	2028K-ND◆	4.39	28.15
		.750	1895K-ND◆	4.96	33.95	2029K-ND◆	4.89	32.60
		.875	1896K-ND◆	5.45	37.55	2030K-ND◆	5.35	35.15
		1.000	1897K-ND◆	5.98	49.10	2031K-ND◆	5.98	49.10
4-40	.250	.250	2201K-ND◆	3.25	20.15	3478K-ND◆	2.95	17.30
		.375	2202K-ND◆	3.64	22.15	3479K-ND◆	3.26	20.15
		.500	2203K-ND◆	4.03	24.50	3480K-ND◆	3.67	21.70
		.625	1808K-ND◆	4.34	26.90	1839K-ND◆	3.98	31.90
		.750	2204K-ND◆	4.29	29.25	3481K-ND◆	4.47	26.90
		.875	1809K-ND◆	4.89	40.50	1846K-ND	4.82	39.60
		1.000	2205K-ND◆	5.45	45.05	3482K-ND◆	5.32	43.85
		1.500	2206K-ND◆	9.29	76.25	3483K-ND◆	8.99	73.85
		2.000	2207K-ND◆	10.72	88.30	3484K-ND◆	10.41	85.50
6-32	.250	.250	2208K-ND◆	3.25	20.15	3485K-ND◆	2.95	17.30
		.375	2209K-ND◆	3.64	22.15	3486K-ND◆	3.26	20.15
		.500	2210K-ND◆	4.03	24.50	3487K-ND◆	3.67	21.70
		.625	1813K-ND◆	4.59	27.40	1847K-ND◆	4.36	31.45
		.750	2211K-ND◆	4.29	29.25	3488K-ND◆	4.47	26.90
		.875	1816K-ND◆	4.57	31.00	1848K-ND◆	4.30	29.40
		1.000	2212K-ND◆	5.45	45.05	3489K-ND◆	5.32	43.85
		1.250	1818K-ND◆	8.23	67.60	1853K-ND◆	8.06	66.35
		1.500	2213K-ND◆	9.29	76.25	3490K-ND◆	8.99	73.85
		1.750	1819K-ND◆	9.70	79.80	1855K-ND◆	9.54	78.50
		2.000	2214K-ND◆	10.72	88.30	3491K-ND◆	10.41	85.50
		2.250	1820K-ND◆	11.90	97.80	1856K-ND◆	11.58	95.20
		2.500	1825K-ND◆	12.08	107.10	1857K-ND	11.79	104.50
8-32	.250	.250	2215K-ND◆	3.25	20.15	3492K-ND◆	2.95	17.30
		.375	2216K-ND◆	3.64	22.15	3493K-ND◆	3.26	20.15
		.500	2217K-ND◆	4.03	24.50	3494K-ND◆	3.67	21.70
		.625	1827K-ND◆	4.44	31.90	1858K-ND◆	3.98	24.75
		.750	2218K-ND◆	4.19	34.30	3495K-ND	4.47	26.90
		.875	1828K-ND◆	5.21	42.75	1859K-ND◆	4.33	29.05
		1.000	2219K-ND◆	5.45	45.05	3496K-ND◆	5.32	43.85
		1.500	2220K-ND◆	9.29	76.25	3497K-ND◆	10.44	84.25
		2.000	2221K-ND◆	10.72	88.30	3498K-ND◆	10.41	85.50
8-32	.375	.375	1926AK-ND◆	4.80	39.60	2315AK-ND	7.10	61.90
		.500	1926BK-ND◆	5.03	41.20	2315BK-ND	7.97	65.50
		.625	1926CK-ND	6.58	54.00	2315CK-ND◆	8.59	70.60
		.750	1926DK-ND◆	7.64	62.75	2315DK-ND◆	9.21	75.70
		1.000	1926EK-ND◆	8.61	74.01	2315EK-ND◆	10.20	87.99
Brass								
2-56	.156	.187	1798AK-ND◆	6.76	55.65	1802AK-ND◆	6.39	52.70
		.250	1798BK-ND◆	8.07	66.35	1802BK-ND◆	6.87	56.45
		.312	1798CK-ND◆	9.71	79.85	1802CK-ND◆	7.12	58.65
		.375	1798DK-ND◆	10.45	86.10	1802DK-ND◆	7.12	58.65
4-40	.187	.250	1450K-ND◆	4.67	26.90	1547K-ND◆	4.69	24.80
		.375	1803K-ND◆	5.47	30.85	1864K-ND◆	5.40	37.40
		.500	1656K-ND◆	5.61	36.45	1657K-ND◆	5.55	35.80
		.625	1804K-ND◆	6.82	49.15	1865K-ND◆	6.80	42.15
		.750	1656AK-ND◆	7.71	46.60	1657AK-ND◆	7.51	45.40
		.875	1805K-ND◆	9.46	60.30	1866K-ND◆	9.44	58.20
		1.000	1656BK-ND◆	9.94	60.30	1657BK-ND◆	9.86	57.80
4-40	.250	.250	1450AK-ND◆	4.36	24.95	1547AK-ND◆	5.02	36.05
		.375	1450BK-ND◆	5.46	28.85	1547BK-ND◆	5.88	42.15
		.500	1450CK-ND◆	5.52	36.25	1547CK-ND◆	6.27	51.45
		.625	1829K-ND◆	7.46	49.00	1867K-ND	7.08	58.20
		.750	1450DK-ND◆	8.53	57.25	1547DK-ND◆	7.93	65.30
		.875	1830K-ND◆	9.08	59.50	1876K-ND	8.94	73.50
		1.000	1450EK-ND◆	9.61	63.29	1547EK-ND◆	4.11	24.80
		1.500	1831K-ND◆	16.88	149.60	1877K-ND◆	16.49	143.30
		2.000	1832K-ND◆	17.30	153.40	1878K-ND◆	19.98	173.70
6-32	.250	.250	1451AK-ND◆	4.36	24.95	1548AK-ND◆	4.35	22.90
		.375	1451BK-ND◆	5.46	28.85	1548BK-ND◆	4.76	26.90
		.500	1451CK-ND◆	5.52	36.25	1548CK-ND◆	5.55	34.85
		.625	1451DK-ND◆	7.46	49.00	1548DK-ND◆	6.07	46.60
		.750	1451EK-ND◆	7.32	55.60	1548EK-ND◆	6.60	54.32
		.875	1833K-ND◆	9.08	59.50	1879K-ND	8.51	58.05
		1.000	1635K-ND◆	9.61	57.80	1548FK-ND◆	8.84	56.90
		1.250	1636K-ND◆	12.51	102.85	1881K-ND	12.27	101.05
		1.500	1637K-ND◆	14.46	118.80	1882K-ND	16.38	145.05
		1.750	1638K-ND◆	17.10	151.45	1883K-ND	16.59	146.95
		2.000	1639K-ND◆	17.30	153.40	1884K-ND	16.74	148.30
6-32	.250	2.250	1642K-ND◆	17.66	156.40	1885K-ND◆	17.17	151.90
		2.500	1643K-ND◆	18.17	160.75	1886K-ND	17.66	156.40
8-32	.250	.250	1474AK-ND◆	4.36	27.80	1692AK-ND	5.26	43.20
		.375	1474BK-ND◆	5.46	28.85	1692BK-ND	5.51	45.40
		.500	1474CK-ND◆	5.52	36.25	1692CK-ND◆	7.02	57.75
		.625	1834K-ND◆	7.46	49.00	1887K-ND◆	8.03	65.85
		.750	1474DK-ND◆	8.53	57.25	1692DK-ND	9.51	78.15
		.875	1836K-ND◆	9.77	62.90	1888K-ND	9.10	75.05
		1.000	1474EK-ND◆	8.23	56.24	1692EK-ND◆	8.40	78.36
		1.500	1837K-ND◆	16.88	149.60	1889K-ND	16.38	145.05
		2.000	1838K-ND◆	17.30	153.40	1899K-ND	17.60	156.05
8-32	.375	.375	1452AK-ND◆	9.84	79.35	1549AK-ND	10.33	85.10
		.500	1452BK-ND◆	9.85	80.90	1549BK-ND	11.14	91.65
		.625	1452CK-ND◆	14.62	117.95	1549CK-ND	14.23	115.00
		.750	1452DK-ND◆	13.84	111.65	1549DK-ND	15.60	125.95
		1.000	1452EK-ND◆	16.45	141.44	1549EK-ND◆	16.97	158.25

◆ ***RoHS Compliant***

1/4" Hex Threaded Standoff Kit

Aluminum - Assortment of 1500 pieces in 1/4", 3/8", 1/2", 3/4" and 1" lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.

STH-22KIT-ND *(RoHS Compliant)* **$738.15**

Male/Female .250" Hex Threaded Standoffs

- **Brass:** ASTM-B16
  Plating: Nickel (QQ-N-290)
- **Aluminum:** QQ-Q-225/3
  Plating: Clear Iridite (Mil-C-5541)

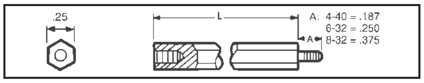

Length (Inch)	4-40 Thread Part No.	Pricing 10	Pricing 100	6-32 Thread Part No.	Pricing 10	Pricing 100	8-32 Thread Part No.	Pricing 10	Pricing 100
Aluminum									
.250	8714K-ND◆*	3.77	26.80	8717K-ND◆*	4.18	29.80	—	—	—
.375	8400K-ND◆†	4.28	30.35	8413K-ND◆†	4.43	31.55	8426K-ND◆†	5.13	41.60
.500	8401K-ND◆	5.22	42.40	8414K-ND◆	4.49	31.80	8427K-ND◆	5.22	42.40
.625	8402K-ND◆	5.62	45.45	8415K-ND◆	4.96	40.10	8428K-ND◆	5.62	45.45
.750	8403K-ND◆	5.71	46.35	8416K-ND◆	5.00	40.60	8429K-ND◆	5.98	48.55
.875	8404K-ND◆	6.20	50.35	8417K-ND◆	5.44	44.15	8430K-ND◆	6.64	53.90
1.000	8405K-ND◆	6.56	53.20	8418K-ND◆	5.71	46.35	8431K-ND◆	7.05	57.15
1.125	8406K-ND◆	8.03	65.00	8419K-ND◆	5.89	47.75	8432K-ND◆	9.45	77.85
1.250	8407K-ND◆	8.12	65.90	8420K-ND◆	6.29	51.00	8433K-ND◆	9.79	80.50
1.375	8408K-ND◆	9.51	78.25	8421K-ND◆	7.14	57.90	8434K-ND◆	10.57	86.95
1.500	8409K-ND◆	9.73	79.95	8422K-ND◆	8.16	66.35	8435K-ND	10.68	87.90
1.625	8410K-ND◆	10.01	82.40	8423K-ND◆	8.29	67.20	8436K-ND◆	10.79	88.60
1.750	8411K-ND◆	10.24	84.15	8424K-ND◆	8.69	70.60	8437K-ND	10.90	89.65
2.000	8412K-ND	10.57	86.95	8425K-ND◆	8.87	72.15	8438K-ND◆	11.02	90.65
Brass									
.250	8713K-ND◆*	5.43	38.55	8716K-ND◆*	5.30	37.60	—	—	—
.375	7200K-ND◆†	5.25	42.50	7210K-ND◆†	5.41	44.00	7220K-ND◆†	6.29	50.90
.500	1944K-ND◆	6.85	55.60	1952K-ND◆	5.91	47.95	1957K-ND◆	6.36	51.45
.625	1945K-ND◆	6.96	56.30	1953K-ND◆	7.51	60.80	1958K-ND◆	8.84	71.65
.750	1946K-ND◆	8.28	67.20	1954K-ND◆	7.89	64.10	1959K-ND◆	9.28	75.50
.875	7201K-ND◆	8.39	68.10	7211K-ND◆	9.06	73.50	7221K-ND◆	10.16	82.40
1.000	1947K-ND◆	9.28	75.50	1644K-ND◆	9.33	75.80	1960K-ND◆	10.66	86.50
1.125	7202K-ND◆	10.05	81.60	7212K-ND◆	9.94	80.50	7222K-ND◆	11.43	93.85
1.250	1948K-ND◆	14.25	117.40	1955K-ND◆	11.76	95.45	1961K-ND◆	14.25	117.40
1.375	1949K-ND◆	14.60	120.05	1956K-ND◆	12.76	103.55	1962K-ND◆	14.60	120.05
1.500	1950K-ND◆	15.28	125.70	1645K-ND◆	12.92	104.80	1963K-ND◆	15.28	125.70
1.625	7203K-ND◆	15.42	126.85	7214K-ND◆	15.42	126.85	7224K-ND	16.23	130.95
1.750	7205K-ND◆	15.98	141.75	7215K-ND◆	15.98	141.75	7225K-ND◆	15.98	141.75
2.000	1951K-ND◆	16.11	142.70	1646K-ND◆	16.11	142.70	1964K-ND◆	16.11	142.70
.600	8799K-ND◆‡	5.58	45.25	—	—	—	—	—	—
Nylon 6/6									
.250	4800K-ND◆	4.40	31.65	4814K-ND◆*	4.40	31.65	4828K-ND*	4.40	31.65
.375	4801K-ND◆	4.49	32.35	4815K-ND◆	4.49	32.35	4829K-ND◆†	4.49	32.35
.500	4802K-ND◆	4.67	33.55	4816K-ND◆	4.67	33.55	4830K-ND◆	4.67	33.55
.625	4803K-ND◆	4.76	34.20	4817K-ND◆	4.76	34.20	4831K-ND◆	4.76	34.20
.750	4804K-ND◆	4.25	34.90	4818K-ND◆	4.25	34.90	4832K-ND◆	4.25	34.90
.875	4805K-ND◆	4.32	35.55	4819K-ND◆	4.32	35.55	4833K-ND◆	4.32	35.55
1.000	4806K-ND◆	4.40	36.25	4820K-ND◆	4.40	36.25	4834K-ND◆	4.40	36.25
1.125	4807K-ND◆	4.45	36.55	4821K-ND◆	4.45	36.55	4835K-ND◆	4.45	36.55
1.250	4808K-ND◆	4.48	36.90	4822K-ND◆	4.48	36.90	4836K-ND	4.48	36.90
1.375	4809K-ND◆	4.56	37.55	4823K-ND◆	4.56	37.55	4837K-ND◆	4.56	37.55
1.500	4810K-ND◆	4.64	38.05	4824K-ND◆	4.64	38.05	4838K-ND◆	4.64	38.05
1.625	4811K-ND◆	4.72	38.85	4825K-ND◆	4.72	38.85	4839K-ND	4.72	38.85
1.750	4812K-ND◆	4.80	39.60	4826K-ND◆	4.80	39.60	4840K-ND◆	4.80	39.60
2.000	4813K-ND◆	4.88	40.10	4827K-ND◆	4.88	40.10	4841K-ND◆	4.88	40.10
.600	4799K-ND◆‡	4.72	33.85	—	—	—	—	—	—
Stainless Steel — RoHS Compliant									
.250	8712K-ND	17.61	165.60	—	—	—	—	—	—
.375	2087K-ND	18.42	173.30	—	—	—	—	—	—
1.000	2092K-ND	22.13	211.65	—	—	—	—	—	—
1.250	—	—	—	2126K-ND	25.53	240.10	—	—	—

◆ ***RoHS Compliant***
* Internal Thread .130/.150 deep † Internal Thread .250 deep ‡ PC/104 and PC/104 Plus

Hex Brass Standoff Kit Assortment of 750 in 1/2", 3/4", 1", 1-1/4", and 1-1/2" lengths with thread sizes of 4-40, 6-32 and 8-32. 50 pieces of each size complete with cabinet.

STH-19KIT-ND..**$908.43**

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE
ELECTRONICS CORP

Metric Hex Threaded Standoffs

- **Brass:** ASTM-B16
  Plating: Nickel (QQ-N-290)
- **Aluminum:** ASTM B211
  Plating: Clear Iridite
  (Mil-C-5541)
- **Nylon:** 6/6, UL Rated 94V-2

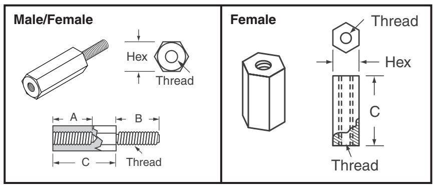

Dimensions – mm			Digi-Key	Pricing	
A	B	C	Part No.	10	100
5mm Hex (M3 Thread)					
Brass - Male/Female					
8.0	8.0	10.0	24313K-ND	7.98	65.55
		12.0	24314K-ND	8.19	67.20
		15.0	24315K-ND	8.54	70.20
		18.0	24316K-ND	9.22	76.05
		20.0	24317K-ND	9.49	78.15
		25.0	24318K-ND	10.46	86.10
Brass - Female					
—	—	5.0	24390K-ND	5.24	43.20
		6.0	24391K-ND	4.17	36.05
		8.0	24392K-ND	5.44	47.75
		10.0	24393K-ND	5.02	41.25
		12.0	24394K-ND	4.81	43.20
		15.0	24395K-ND	6.91	56.70
		18.0	24396K-ND	5.52	48.75
		20.0	24397K-ND	8.14	66.85
		25.0	24398K-ND	8.93	73.50
Aluminum - Male/Female					
8.0	8.0	10.0	24337K-ND	3.26	28.90
		12.0	24338K-ND	4.54	40.40
		15.0	24339K-ND	4.89	43.30
		18.0	24340K-ND	4.97	44.10
		20.0	24341K-ND	5.40	47.95
		25.0	24342K-ND	5.71	50.65
Aluminum - Female					
—	—	5.0	24430K-ND	2.52	19.50
		6.0	24431K-ND	2.48	19.15
		8.0	24432K-ND	2.76	21.10
		10.0	24433K-ND	2.77	21.05
		12.0	24434K-ND	3.07	23.35
		15.0	24435K-ND	3.31	25.60
		18.0	24436K-ND	3.74	27.85
		20.0	24437K-ND	4.26	38.55
		25.0	24438K-ND	4.75	42.90
Nylon - Male/Female					
8.0	8.0	10.0	25501K-ND	3.42	30.80
		12.0	25502K-ND	3.56	31.90
		15.0	25503K-ND	3.63	32.55
		18.0	25504K-ND	3.70	33.20
		20.0	25505K-ND	3.76	33.85
		25.0	25506K-ND	3.83	34.50
Nylon - Female					
—	—	6.0	25508K-ND	4.70	31.05
		8.0	25509K-ND	5.00	33.00
		10.0	25510K-ND	4.81	31.80
		12.0	25511K-ND	5.01	33.20
		15.0	25512K-ND	4.37	39.30
		18.0	25513K-ND	6.44	42.60
		20.0	25514K-ND	4.92	44.35
		25.0	25515K-ND	6.48	42.70
6mm Hex (M4 Thread)					
Brass - Male/Female					
11.0	10.0	10.0	24325K-ND‡	4.43	39.15
		12.0	24326K-ND†	4.47	39.60
		15.0	24327K-ND	6.21	55.15
		18.0	24328K-ND	6.52	58.05
		20.0	24329K-ND	7.15	63.40
		25.0	24330K-ND	7.50	66.55
Brass - Female					
—	—	5.0	24410K-ND	2.73	21.75
		6.0	24411K-ND	2.68	21.40
		8.0	24412K-ND	3.13	22.90
		10.0	24413K-ND	3.36	22.20
		12.0	24414K-ND	3.88	27.85
		15.0	24415K-ND	6.00	44.00
		18.0	24416K-ND	6.38	45.80
		20.0	24417K-ND	6.00	44.00
		25.0	24418K-ND	6.76	44.45
Aluminum - Male/Female					
11.0	10.0	10.0	24349K-ND‡	4.47	39.60
		12.0	24350K-ND†	4.54	40.40
		15.0	24351K-ND	4.89	43.30
		18.0	24352K-ND	5.20	46.20
		20.0	24353K-ND	5.79	51.30
		25.0	24354K-ND	6.13	54.45
Aluminum - Female					
—	—	5.0	24450K-ND	2.52	19.50
		6.0	24451K-ND	2.48	19.15
		8.0	24452K-ND	2.76	21.10
		10.0	24453K-ND	2.77	21.05
		12.0	24454K-ND	3.07	23.35
		15.0	24455K-ND	3.39	30.40
		18.0	24456K-ND	3.65	32.65
		20.0	24457K-ND	4.53	40.70
		25.0	24458K-ND	4.75	42.90
Nylon - Male/Female					
9.5	9.5	10.0	25521K-ND	3.42	30.80
		12.0	25522K-ND	3.56	31.90
		15.0	25523K-ND	3.63	32.55
		18.0	25524K-ND	3.70	33.20
		20.0	25525K-ND	3.76	33.85
		25.0	25526K-ND	3.83	34.50
Nylon - Female					
—	—	6.0	25528K-ND	4.70	31.05
		8.0	25529K-ND	5.00	33.00
		10.0	25530K-ND	4.81	31.80
		12.0	25531K-ND	5.01	33.20
		15.0	25532K-ND	4.37	39.30
		18.0	25533K-ND	6.44	42.60
		20.0	25534K-ND	4.92	44.35
		25.0	25535K-ND	6.48	42.70

‡ Internal Thread: 6.0mm deep † Internal Thread: 8.0mm deep
Note: Female Standoffs longer than 19mm are tapped from both ends

Metric Screws

- **Steel:** Zinc Plate
- **Nylon:** 6/6, UL Rated 94V-2

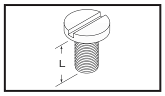

Thread Size	Length – mm L	Digi-Key Part No.	Pricing 10	Pricing 100
Steel				
M3	6	29311K-ND	2.45	22.70
	12	29314K-ND	2.54	23.50
	16	29316K-ND	2.80	25.85
	25	29318K-ND	2.89	26.75
M4	6	29321K-ND	2.63	24.35
	12	29324K-ND	2.74	25.35
	16	29326K-ND	3.21	29.70
	25	29328K-ND	3.58	33.15
Nylon				
M3	6	29341K-ND	1.24	11.85
	12	29344K-ND	1.28	12.20
	16	29346K-ND	1.29	12.25
	25	29348K-ND	1.31	12.45
M4	6	29351K-ND	1.36	12.95
	12	29354K-ND	1.38	13.20
	16	29356K-ND	1.39	13.25
	25	29358K-ND	1.40	13.40

Hinged Standoffs

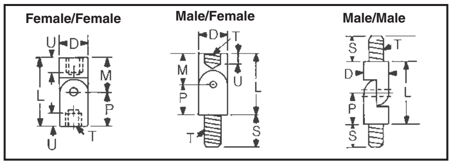

Thread	Dia. – Inch	Dimensions – Inch					Digi-Key	Pricing	
T	D	L	S	U	M	P	Part No.	10	100
Female/Female-Hinge									
4-40	.187	.750	—	.172	.375	.375	351K-ND	15.08	87.70
4-40	.187	1.000	—	.250	.375	.625	352K-ND	16.08	93.60
6-32	.250	.750	—	.172	.375	.375	353K-ND	21.51	124.85
6-32	.250	1.000	—	.250	.375	.625	354K-ND	21.97	127.80
8-32	.250	.750	—	.172	.375	.375	355K-ND	19.44	113.30
8-32	.250	1.000	—	.250	.375	.625	356K-ND	20.45	119.05
Male/Female-Hinge									
4-40	.187	.625	.250	.172	.375	.250	333K-ND	17.68	102.85
4-40	.187	.875	.250	.250	.625	.250	334K-ND	18.67	108.45
6-32	.250	.625	.312	.172	.375	.250	335K-ND	21.27	123.75
6-32	.250	.875	.312	.250	.625	.250	336K-ND	21.73	126.50
Male/Male-Hinge									
4-40	.187	.500	.250	—	—	.250	357K-ND	20.28	118.15
6-32	.250	.500	.312	—	—	.250	358K-ND	21.04	122.35
8-32	.250	.500	.312	—	—	.250	359K-ND	23.62	137.25

Ceramic Standoffs

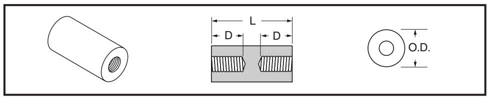

Thread Size	Diameter (Inch) O.D.	Length (Inch) L	Depth (Inch) D (2)	Digi-Key Part No.	Pricing 10	Pricing 100
6-32	.250	.250	thru	7710K-ND◆	27.33	192.70
	.250	.500	.156	7711K-ND◆	31.08	215.30
	.375	.375	.156	7712K-ND	23.54	164.70
	.375	.500	.187	7713K-ND◆	26.64	187.05
	.500	.500	.140	7714K-ND	28.88	204.00
	.500	.750	.250	7715K-ND◆	30.33	215.30
	.500	1.000	.375	7716K-ND◆	32.52	226.60
	.500	1.500	.562	7717K-ND	38.43	272.05
	.500	2.500	.500	7718K-ND◆	46.24	339.30
1/4-20	.750	2.500	.750	7719K-ND◆	64.44	483.68
	.750	4.000	.750	7720K-ND	77.83	583.94

◆ ***RoHS Compliant***

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE
ELECTRONICS CORP

Metal Cable Clamps

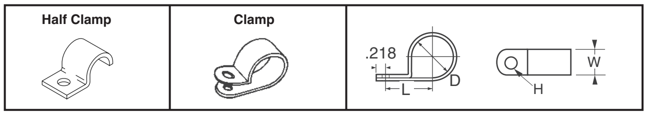
Half Clamp
Clamp

D	L	W	H	Digi-Key Part No.	Pricing 10	Pricing 100
Steel Half Clamps						
.125	.437	.500	.218	8140K-ND◆	1.64	11.85
.187	.437	.500	.218	8141K-ND◆	1.72	12.80
.250	.437	.500	.218	8142K-ND◆	1.85	13.30
.312	.500	.500	.218	8143K-ND	1.99	14.35
.375	.531	.625	.218	8144K-ND	2.32	16.60
.437	.562	.625	.218	8145K-ND◆	2.44	17.60
.500	.625	.625	.218	8146K-ND	3.05	21.90
.562	.687	.625	.218	8147K-ND◆	3.13	22.55
.625	.750	.625	.218	8148K-ND	3.28	23.70
.687	.812	.625	.218	8149K-ND	3.36	24.25
.750	.812	.625	.218	8150K-ND	3.50	25.10
.812	.875	.625	.218	8151K-ND	3.63	26.20
.875	.937	.750	.281	8152K-ND	3.96	28.45
.937	.968	.750	.281	8153K-ND	4.11	29.70
1.000	1.000	.750	.281	8154K-ND	9.00	63.45
Insulated Steel Half Clamps						
.187	.437	.500	.218	8160K-ND◆	4.44	31.55
.250	.500	.500	.218	8161K-ND◆	4.39	35.65
.312	.531	.625	.218	8162K-ND	4.97	40.35
.375	.562	.625	.218	8163K-ND	5.20	42.15
.437	.625	.625	.218	8164K-ND	5.87	47.45
.500	.687	.625	.218	8165K-ND◆	4.31	35.05
.562	.750	.625	.218	8166K-ND	4.46	36.25
.625	.812	.625	.218	8167K-ND	4.57	37.30
.687	.812	.625	.218	8168K-ND	4.74	38.45
.750	.875	.625	.218	8169K-ND	5.16	41.95
.812	.937	.750	.281	8170K-ND	8.17	65.10
.875	.968	.750	.281	8171K-ND	6.75	54.70
.937	1.000	.750	.281	8172K-ND	7.95	64.40
1.000	1.062	.750	.281	8173K-ND	7.48	60.80
Steel Clamps						
.250	.406	.500	.203	8101K-ND◆	2.03	14.70
.312	.437	.500	.203	8102K-ND◆	2.11	15.15
.375	.468	.500	.203	8103K-ND	2.19	15.90
.437	.500	.500	.203	8104K-ND◆	2.28	16.45
.500	.531	.500	.203	8105K-ND	2.40	17.25
.562	.562	.500	.203	8106K-ND	2.52	18.20
.625	.594	.500	.203	8107K-ND◆	2.61	18.75
.687	.625	.500	.203	8108K-ND◆	2.69	19.45
.750	.656	.500	.203	8109K-ND◆	2.77	20.05
.812	.687	.500	.203	8110K-ND	2.86	20.45
.875	.718	.500	.203	8111K-ND	2.96	21.35
.937	.750	.500	.203	8112KS-ND	3.06	22.15
1.000	.781	.500	.203	8113K-ND	3.13	22.65
Insulated Steel Clamps						
.187	.406	.500	.203	8121K-ND◆	3.79	27.25
.250	.437	.500	.203	8122K-ND◆	3.91	28.25
.312	.468	.500	.203	8123K-ND	4.07	29.45
.375	.500	.500	.203	8124KS-ND◆	4.20	30.25
.437	.531	.500	.203	8125K-ND◆	4.36	31.65
.500	.562	.500	.203	8126K-ND◆	4.52	32.60
.562	.594	.500	.203	8127K-ND◆	4.69	33.95
.625	.625	.500	.203	8128K-ND	4.24	34.80
.687	.656	.500	.203	8129K-ND	4.35	35.80
.750	.687	.500	.203	8130K-ND◆	4.48	37.05
.812	.718	.500	.203	8131K-ND	4.60	37.80
.875	.750	.500	.203	8132K-ND◆	4.74	38.95
.937	.781	.500	.203	8133K-ND◆	4.86	39.80
1.000	.812	.500	.203	8134K-ND◆	4.99	41.10

Dimensions – Inch

◆ ***RoHS Compliant***

Nylon Cable Clamps

Ideal for securing, insulating and routing cable wiring, piping, tubing, components and fibre optics. Made of .050" thick nylon 6/6, white.

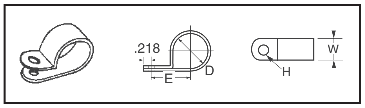

D	E	W	H	Digi-Key Part No.	Pricing 100	Pricing 500	Pricing 1,000
.125	.325	.375	.140	7620K-ND◆	5.23	23.25	26.30
.125	.325	.375	.203	7621K-ND◆	5.23	23.25	26.30
.187	.380	.375	.140	7622K-ND◆	5.35	23.75	26.60
.187	.380	.375	.203	7623K-ND◆	5.35	23.75	26.60
.250	.410	.375	.140	7624K-ND◆	5.44	23.75	27.60
.250	.410	.375	.203	7625K-ND◆	5.46	23.75	27.60
.312	.445	.375	.140	7626K-ND◆	5.45	24.50	28.20
.312	.445	.375	.203	7627K-ND◆	5.45	24.50	28.20
.375	.475	.375	.140	7628K-ND◆	5.90	25.75	30.30
.375	.475	.375	.203	7629K-ND◆	5.90	25.75	30.30
.437	.525	.375	.140	7630K-ND◆	6.29	27.25	31.45
.437	.525	.375	.203	7631K-ND◆	6.29	27.25	31.45
.500	.550	.375	.140	7632K-ND◆	6.29	27.75	32.35
.500	.550	.375	.203	7633K-ND◆	6.29	27.75	32.35
.562	.625	.500	.203	7634K-ND◆	9.74	43.25	49.55
.625	.660	.500	.203	7635K-ND◆	10.47	44.50	52.00
.750	.785	.500	.203	7636K-ND◆	11.63	50.25	59.70
.875	.845	.500	.203	7637K-ND◆	12.69	54.50	63.60
1.000	.910	.500	.203	7638K-ND◆	13.01	56.75	66.45
1.125	.970	.500	.203	7639K-ND◆	18.65	80.50	93.65
1.125	1.060	.500	.203	7640K-ND	19.99	86.75	101.75

Dimensions – Inch

◆ ***RoHS Compliant***

Recessed Bumpers

Provides excellent traction and shock absorbing qualities.
Materials:
Fig. 1 and 2: Rubber, BUNA S
Fig. 3: Vinyl

Fig. 1
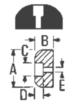

Fig. 2
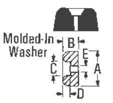

Fig. 3
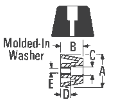

Fig.	A	B	C	D	E	Screw Size	Digi-Key Part No.	Pricing 10	Pricing 100
1	.500	.250	.250	.125	.125	#4	720K-ND	2.20	15.90
	.625	.312	.250	.187	.125	#4	721K-ND	3.50	25.10
	.718	.437	.250	.218	.125	#4	722K-ND	6.13	50.50
2	.937	.375	.375	.187	.187	#8	723K-ND	5.88	48.55
3	.562	.375	.218	.187	.115	#4	727K-ND	5.47	45.00
	.687	.250	.343	.125	.155	#6	724K-ND†	4.52	37.30
	.750	.437	.265	.250	.148	#6	728K-ND	6.16	50.70
	.875	.312	.406	.187	.187	#8	725K-ND†	8.34	68.75
	.937	.625	.359	.297	.174	#8	729K-ND	9.11	74.95
	1.062	.437	.468	.234	.200	#10	726K-ND†	10.39	85.35

Dimensions - Inch

† Gray — all others black

Flat Washers

Fibre: Commercial per ASTM
D710, Grade CH
Nylon: Grade 6/6 per ASTM D4066

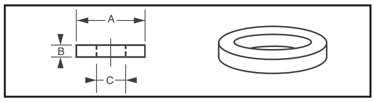

O.D. A	Thick B	I.D. C	Digi-Key Part No.	Pricing 100	Pricing 500	Pricing 1,000
Nylon Material — #2 Screw Size						
.250	.032	.098	3347K-ND	3.28	14.75	—
Fibre Material — #4 Screw Size						
.250	.032	.120	3116K-ND	3.39	15.50	—
.312	.032	.120	348K-ND	3.41	15.50	—
.375	.032	.120	3117K-ND	3.51	15.50	—
.250	.047	.120	3154K-ND	3.40	15.50	—
.312	.047	.120	3155K-ND	3.40	15.50	—
.375	.047	.120	3156K-ND	3.84	16.50	17.30
.250	.062	.120	3368K-ND	3.40	15.50	—
.312	.062	.120	3196K-ND	3.40	15.50	18.85
.375	.062	.120	3197K-ND	3.51	15.50	17.85
Nylon Material — #4 Screw Size						
.250	.032	.120	3348K-ND	3.28	14.75	—
.312	.032	.120	3359K-ND	3.95	17.00	20.10
.375	.032	.120	3118K-ND	4.18	18.75	21.50
.250	.047	.120	345K-ND	3.95	16.75	—
.312	.047	.120	3157K-ND	3.34	14.75	19.40
.375	.047	.120	3158K-ND	3.34	14.75	21.40
.250	.062	.120	3358K-ND	3.33	14.75	19.40
.312	.062	.120	3198K-ND	3.95	17.00	25.70
.375	.062	.120	3200K-ND	3.96	16.75	24.25
Fibre Material — #6 Screw Size						
.250	.032	.140	3119K-ND	3.39	15.50	—
.312	.032	.140	3120K-ND	3.41	15.50	—
.375	.032	.140	3121K-ND	3.51	15.50	—
.250	.047	.140	3159K-ND	3.40	15.50	—
.312	.047	.140	3160K-ND	3.40	15.50	—
.375	.047	.140	3161K-ND	3.84	16.50	17.30
.250	.062	.140	3369K-ND	3.40	15.50	—
.312	.062	.140	3370K-ND	3.40	15.50	16.50
.375	.062	.140	3201K-ND	3.51	15.50	17.85
Nylon Material — #6 Screw Size						
.250	.032	.140	3122K-ND	3.28	14.75	—
.312	.032	.140	3349K-ND	3.29	14.75	16.00
.375	.032	.140	3123K-ND	4.18	18.75	21.50
.250	.047	.140	3162K-ND	3.28	14.75	15.60
.312	.047	.140	346K-ND	4.17	17.75	19.40
.375	.047	.140	3163K-ND	3.34	14.75	21.40
.250	.062	.140	3360K-ND	3.28	14.75	19.40
.312	.062	.140	3361K-ND	3.95	17.00	25.70
.375	.062	.140	3202K-ND	3.96	16.75	24.25
Fibre Material — #8 Screw Size						
.312	.032	.171	3124K-ND	3.41	15.50	—

Dimensions – Inch

Nylon Shoulder Washers/Bushings

Material: Nylon, Grades 6/6 per ASTM D4066

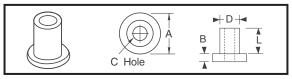

L	A	B	C	D	Digi-Key Part No.	Pricing 100	Pricing 500
#4 Screw Size							
.031	.218	.040	.115	.135	3049K-ND	4.84	20.75
.047	.250	.032	.115	.185	7681K-ND	6.29	27.75
.093	.235	.047	.115	.145	3053K-ND	9.13	39.25
.125	.235	.047	.115	.145	3102K-ND	9.13	39.25
.180	.235	.047	.115	.145	3103K-ND	9.13	39.25
.250	.235	.047	.115	.145	340K-ND	10.29	44.50
#6 Screw Size							
.032	.385	.062	.145	.240	7682K-ND	7.17	30.00
.032	.250	.062	.140	.187	7683K-ND	6.06	26.00
.032	.312	.062	.140	.187	7684K-ND	6.62	28.25
.125	.290	.047	.140	.170	3054K-ND	9.12	39.25
.187	.290	.047	.140	.170	3104K-ND	9.52	41.75
.250	.290	.047	.140	.170	341K-ND	10.29	44.50
.500	.290	.047	.140	.170	3055K-ND	10.46	45.00

Dimensions – Inch

BUILDING FASTENERS

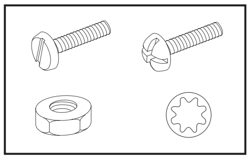

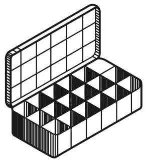

Digi-Key® Electronic Hardware Kits come complete with a divided plastic box for easy storage.

Zinc Plated Nuts and Washers

Description	Digi-Key Part No.	Pricing 100	1,000
Hex Nuts			
No. 2 - 56	H212-ND†★	1.31	10.51
No. 4 - 40	H216-ND†★	.93	7.44
No. 6 - 32	H220-ND◆†★§	1.44	11.52
No. 8 - 32	H224-ND◆†★§	1.95	15.60
No. 10 - 32	H228-ND◆§	1.98	15.84
Internal Tooth Lock Washers			
No. 2	H232-ND†★	7.41	59.28
No. 4	H236-ND†★	.97	7.78
No. 6	H240-ND◆†★§	1.13	9.07
No. 8	H244-ND◆†★§	1.20	9.60
No. 10	H248-ND◆§	1.47	11.76
Flat Washers			
No. 2	H776-ND	2.70	21.60
No. 4	H777-ND	2.81	22.46
No. 6	H778-ND	.97	7.78
No. 8	H779-ND	1.30	10.37
No. 10	H780-ND	1.62	12.96

Phillips Panhead Sheet Metal Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
4 x 3/8	H800-ND	1.56	12.48
4 x 1/2	H801-ND	2.40	19.20
4 x 3/4	H802-ND	2.55	20.40
6 x 3/8	H803-ND	1.85	14.78
6 x 1/2	H804-ND	2.46	19.68
6 x 3/4	H805-ND	2.60	20.83
8 x 3/8	H806-ND	2.10	16.80
8 x1/2	H807-ND	2.76	22.08
8 x 3/4	H808-ND	4.41	35.28

Hex Head Sheet Metal Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
4 x 3/8	H809-ND	9.72	77.76
4 x 1/2	H810-ND	10.73	85.87
4 x 3/4	H811-ND	13.38	107.04
6 x 3/8	H812-ND	5.58	44.64
6 x 1/2	H813-ND	7.60	60.82
6 x 3/4	H814-ND	9.54	76.32
8 x 3/8	H815-ND	7.84	62.74
8 x1/2	H816-ND	8.16	65.28
8 x 3/4	H817-ND	9.95	79.63

Phillips Panhead Machine Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H330-ND†	6.39	51.12
2-56 x 1/2	H334-ND†	4.64	37.15
2-56 x 3/4	H338-ND	8.62	68.93
4-40 x 1/4	H342-ND†	2.98	23.81
4-40 x 5/16	H343-ND	1.92	15.36
4-40 x 3/8	H781-ND	1.62	12.96
4-40 x 1/2	H346-ND†	1.37	10.99
4-40 x 5/8	H348-ND	2.28	18.24
4-40 x 3/4	H350-ND	2.13	17.04
6-32 x 1/4	H354-ND†	1.92	15.36
6-32 x 5/16	H355-ND	2.10	16.80
6-32 x 3/8	H356-ND◆	2.22	17.76
6-32 x 7/16	H357-ND	4.74	37.92
6-32 x 1/2	H360-ND†	2.28	18.24
6-32 x 5/8	H364-ND◆	2.34	18.72
6-32 x 3/4	H368-ND◆	2.37	18.96
6-32 x 1	H372-ND◆	2.63	21.07
8-32 x 1/4	H376-ND	2.01	16.08
8-32 x 3/8	H380-ND†	2.15	17.23
8-32 x 1/2	H384-ND◆	2.85	22.80
8-32 x 5/8	H388-ND†	2.94	23.52
8-32 x 3/4	H392-ND◆	2.97	23.76
8-32 x 1	H396-ND◆	3.23	25.87
10-32 x 1/2	H400-ND◆	3.75	30.00
10-32 x 3/4	H404-ND◆	4.06	32.45
10-32 x 1	H408-ND◆	5.48	43.87

Slotted Panhead Machine Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H130-ND★	8.18	65.42
2-56 x 1/2	H134-ND★	4.64	37.15
2-56 x 3/4	H138-ND	11.23	89.86
4-36 x 1/2	H140-ND	2.40	19.20
4-40 x 1/4	H142-ND★	2.27	18.14
4-40 x 5/16	H143-ND	1.89	15.12
4-40 x 1/2	H146-ND★	1.37	10.99
4-40 x 5/8	H148-ND	1.52	12.14
4-40 x 3/4	H150-ND	1.68	13.44
6-32 x 1/4	H154-ND★	1.48	11.81
6-32 x 5/16	H155-ND	1.54	12.34
6-32 x 3/8	H156-ND§	1.59	12.72
6-32 x 7/16	H157-ND	1.65	13.20
6-32 x 1/2	H160-ND★	1.69	13.54
6-32 x 5/8	H164-ND§	2.58	20.64
6-32 x 3/4	H168-ND§	1.95	15.60
6-32 x 1	H172-ND§	2.29	18.34
8-32 x 1/4	H176-ND	2.01	16.08
8-32 x 3/8	H180-ND★	2.15	17.23
8-32 x 1/2	H184-ND§	2.27	18.19
8-32 x 5/8	H188-ND★	2.50	19.97
8-32 x 3/4	H192-ND§	2.71	21.70
8-32 x 1	H196-ND§	3.23	25.87
10-32 x 1/2	H200-ND§	3.30	26.40
10-32 x 3/4	H204-ND§	4.06	32.45
10-32 x 1	H208-ND§	5.48	43.87

Digi-Key® Zinc Plated Hardware Kits

Sizes #2, #4, #6, and #8.
1600 pieces total.
100 pieces each of the parts denoted.

★**1600-KIT-ND** (Slotted)............................ **$17.95**
†**1602-KIT-ND** (Phillips)............................ **$17.95**

Sizes #6, #8, and #10.
1600 pieces total.
100 pieces each of the parts denoted.

§**1601-KIT-ND** (Slotted) **$27.95**
◆**1603-KIT-ND** (Phillips) **$27.78**

Phillips Nylon Machine Screws

Nylon 66 - Melting Point is 500°F (260°C)

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H530-ND	8.86	70.90
2-56 x 1/2	H534-ND◆	9.10	72.82
2-56 x 3/4	H538-ND	9.26	74.11
4-40 x 1/4	H542-ND◆	8.86	70.90
4-40 x 3/8	H544-ND◆	9.00	72.00
4-40 x 1/2	H546-ND◆	9.10	72.82
4-40 x 5/8	H548-ND	9.19	73.54
4-40 x 3/4	H550-ND◆	9.26	74.11
6-32 x 1/4	H554-ND◆	9.26	74.11
6-32 x 3/8	H556-ND	9.43	75.46
6-32 x 1/2	H560-ND◆	9.51	76.08
6-32 x 5/8	H564-ND	9.57	76.56
6-32 x 3/4	H568-ND	9.59	76.75
6-32 x 1	H572-ND	9.66	77.28
8-32 x 1/4	H576-ND◆	9.17	73.34
8-32 x 3/8	H580-ND	9.24	73.92
8-32 x 1/2	H584-ND	9.04	72.34
8-32 x 5/8	H588-ND	9.46	75.70
8-32 x 3/4	H592-ND	9.42	75.36
8-32 x 1	H596-ND◆	9.46	75.65
10-32 x 1/2	H600-ND	10.19	81.55
10-32 x 3/4	H604-ND	10.20	81.60
10-32 x 1	H608-ND◆	10.38	83.04

Description	Digi-Key Part No.	Pricing 100	1,000
Nylon Hex Nuts			
2-56	H612-ND◆	10.55	84.38
4-40	H616-ND◆	10.50	84.00
6-32	H620-ND◆	10.80	86.40
8-32	H624-ND◆	11.06	88.46
10-32	H628-ND◆	11.30	90.43

Digi-Key® Nylon Hardware Kits

Sizes #2, #4, #6, #8 and #10.
1500 pieces total.
100 pieces each
of the parts denoted.

◆**1604-KIT-ND** (Phillips) **$53.94**

Rivets

Description	Digi-Key Part No.	Pricing 100	1,000
Aluminum Rivets			
3/32 x .250	H251-ND	7.56	60.48
3/32 x .375	H252-ND	7.60	60.80
1/8 x .212	H253-ND	6.15	49.20
1/8 x .275	H254-ND	4.65	37.20
1/8 x .337	H255-ND	5.03	40.20
1/8 x .400	H256-ND	5.18	41.40
1/8 x .462	H257-ND	8.40	67.20
1/8 x .650	H258-ND	10.28	82.20
Aluminum Large Flange Rivets			
1/8 x .275	H260-ND	8.65	69.20
1/8 x .400	H261-ND	9.00	72.00
1/8 x .525	H262-ND	11.00	88.00
Steel Rivets			
3/32 x .250	H263-ND	8.73	69.80
3/32 x .375	H264-ND	9.00	72.00
1/8 x .212	H265-ND	4.14	33.08
1/8 x .275	H266-ND	4.64	37.12
1/8 x .337	H267-ND	5.22	41.76
1/8 x .400	H268-ND	5.30	42.36
1/8 x .526	H269-ND	7.98	63.80
Steel Large Flange Rivets			
1/8 x .275	H270-ND	8.93	71.40
1/8 x .400	H271-ND	9.21	73.68
1/8 x .525	H272-ND	11.25	90.00

Hand Rivet Tools

HP-2®/39000

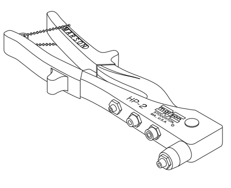

The HP-2 is the largest selling hand rivet tool in the industry. Its square shoulder fulcrum pin of cold-formed heat-treated steel prevents pin rotation that can elongate the engaging holes and cause premature tool failure in imitation tools. The HP-2 hand rivet tool sets up to 3/16" steel rivets and comes with four mounted nosepieces (3/32". 1/8". 5/32" and 3/16") and a service wrench.

H1001-ND........................ **$37.70**

200 Kit™/39001

The deluxe hand riveter kit includes the HP-2 and 200 assorted Klik-Fast rivets in popular sizes.

H1002-ND........................ **$68.12**

Metric Phillips, Panhead Machine Screws

Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
M2 x 5mm	H738-ND§	6.72	53.76
M2 x 8mm	H739-ND§	7.05	56.40
M2 x 12mm	H740-ND§	5.90	47.23
M3 x 5mm	H742-ND§	5.94	47.52
M3 x 8mm	H743-ND§	6.60	52.80
M3 x 12mm	H744-ND§	6.90	55.20
M3 x 20mm	H745-ND§	11.33	90.62
M3 x 25mm	H746-ND§	11.46	91.68
M4 x 5mm	H747-ND★	7.20	57.60
M4 x 8mm	H748-ND★	7.56	60.48
M4 x 12mm	H749-ND★	8.76	70.08
M4 x 20mm	H750-ND★	11.55	92.40
M4 x 25mm	H751-ND★	12.60	100.80
M5 x 6mm	H752-ND	10.56	84.48
M5 x 8mm	H753-ND	10.80	86.40
M5 x 12mm	H754-ND	12.60	100.80
M5 x 20mm	H755-ND	17.70	141.60
M5 x 25mm	H756-ND	18.60	148.80
M6 x 8mm	H757-ND★	20.40	163.20
M6 x 12mm	H758-ND★	21.60	172.80
M6 x 20mm	H759-ND★	25.80	206.40
M6 x 25mm	H760-ND★	27.60	220.80

Metric Nuts and Washers

Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
Hex Nuts			
M2 Metric Hex Nut	H761-ND§	3.60	28.80
M3 Metric Hex Nut	H762-ND§	3.84	30.72
M4 Metric Hex Nut	H763-ND★	4.20	33.60
M5 Metric Hex Nut	H764-ND	4.80	38.40
M6 Metric Hex Nut	H765-ND★	5.34	42.72
Split Lock Washers			
M2 Lock Washers	H771-ND§	5.40	43.20
M3 Lock Washers	H772-ND§	4.26	34.08
M4 Lock Washers	H773-ND★	4.74	37.92
M5 Lock Washers	H774-ND	5.34	42.72
M6 Lock Washers	H775-ND★	6.30	50.40
Flat Washers			
M2 Flat Washers	H766-ND§	3.30	26.40
M3 Flat Washers	H767-ND§	3.60	28.80
M4 Flat Washers	H768-ND★	3.66	29.28
M5 Flat Washers	H769-ND	3.75	30.00
M6 Flat Washers	H770-ND★	4.80	38.40

Digi-Key® Metric Hardware Kits

Sizes M2 and M3. Zinc Plated.
1400 pieces total.
100 pieces each of the parts denoted.

§**1605-KIT-ND** (Phillips) **$59.95**

Sizes M4 and M6. Zinc Plated.
1500 pieces total.
100 pieces each of the parts denoted.

★**1606-KIT-ND** (Phillips) **$99.95**

Phillips, Panhead Machine Screws

Stainless Steel

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H700-ND★	6.87	54.96
2-56 x 1/2	H701-ND★	5.28	42.24
2-56 x 3/4	H702-ND★	5.34	42.72
4-40 x 1/4	H703-ND★	4.13	33.02
4-40 x 5/16	H704-ND★	3.34	26.74
4-40 x 1/2	H705-ND★	4.05	32.40
4-40 x 3/8	H782-ND	3.60	28.80
4-40 x 5/8	H706-ND★	4.41	35.28
4-40 x 3/4	H707-ND★	6.36	50.88
6-32 x 1/4	H708-ND†	4.08	32.64
6-32 x 5/16	H709-ND	4.39	35.09
6-32 x 3/8	H710-ND	4.51	36.10
6-32 x 1/2	H711-ND†	4.77	38.16
6-32 x 5/8	H712-ND	5.52	44.16
6-32 x 3/4	H713-ND†	6.33	50.64
6-32 x 1	H714-ND	6.64	53.09
8-32 x 3/8	H715-ND†	6.16	49.25
8-32 x 1/2	H716-ND†	6.70	53.62
8-32 x 5/8	H717-ND	7.33	58.66
8-32 x 3/4	H718-ND†	9.18	73.44
8-32 x 1	H719-ND	10.56	84.48
10-32 x 1/2	H720-ND†	11.00	88.03
10-32 x 3/4	H721-ND†	12.52	100.13
10-32 x 1	H722-ND†	20.46	163.68

Stainless Steel Nuts and Washers

Description	Digi-Key Part No.	Pricing 100	1,000
Hex Nuts			
No. 2 - 56 Hex Nut	H723-ND★	4.99	39.94
No. 4 - 40 Hex Nut	H724-ND★	4.13	33.02
No. 6 - 32 Hex Nut	H725-ND†	5.57	44.54
No. 8 - 32 Hex Nut	H726-ND†	5.95	47.62
No. 10 - 32 Hex Nut	H727-ND†	6.05	48.38
Internal Tooth Lock Washers			
No. 2 Lock Washer	H728-ND★	3.55	28.42
No. 4 Lock Washer	H729-ND★	2.50	19.97
No. 6 Lock Washer	H730-ND†	2.30	18.43
No. 8 Lock Washer	H731-ND†	2.88	23.04
No. 10 Lock Washer	H732-ND†	3.07	24.58
Flat Washers			
No. 2 Flat Washer	H733-ND★	2.30	18.43
No. 4 Flat Washer	H734-ND★	3.36	26.88
No. 6 Flat Washer	H735-ND	3.66	29.28
No. 8 Flat Washer	H736-ND	3.90	31.20
No. 10 Flat Washer	H737-ND	4.74	37.92

Digi-Key® Stainless Steel Hardware Kits

Sizes #2 and #4.
1400 pieces total.
100 pieces each of the parts denoted.

★**1607-KIT-ND** (Phillips) **$39.95**

Sizes #6, #8, and #10.
1500 pieces total.
100 pieces each of the parts denoted.

†**1608-KIT-ND** (Phillips) **$79.95**

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE ELECTRONICS CORP

PC Test Points

RoHS COMPLIANT

Features: • Color keyed for visibility and quick identification • Economical choice for PC test point terminations • Snap-fit mounting provides positive retention for wave soldering • Wire form loop for safe, non-slip testing • Space saving, ultra low and low profile designs • High profile for difficult to reach applications • Suitable for high density packaging on .062" (1.57mm) and .093" (2.36mm) PC boards • Practical replacement for wire-wrap posts and turrets • Secure grip for J hooks, EZ hooks, grabbers, alligator clips, tips or probes • Plastic base strengthens terminal for positive holding power • Ideal for reliable production testing and field service troubleshooting

Fig.	Base Color	Digi-Key Part No.	Price Each 10	100	500	Keystone Part No.
1	Red	5000K-ND	.32	.22	.20	5000
	Black	5001K-ND	.32	.22	.20	5001
	White	5002K-ND	.32	.22	.20	5002
	Orange	5003K-ND	.32	.22	.20	5003
	Yellow	5004K-ND	.32	.22	.20	5004
2	Red	5005K-ND	.32	.23	.21	5005
	Black	5006K-ND	.32	.23	.21	5006
	White	5007K-ND	.32	.23	.21	5007
	Orange	5008K-ND	.32	.23	.21	5008
	Yellow	5009K-ND	.32	.23	.21	5009
3	Red	5010K-ND	.32	.23	.21	5010
	Black	5011K-ND	.32	.23	.21	5011
	White	5012K-ND	.32	.23	.21	5012
	Orange	5013K-ND	.32	.23	.21	5013
	Yellow	5014K-ND	.32	.23	.21	5014
4	Red	6043K-ND	1.48	.92	.90	6043
	Black	6044K-ND	1.48	.92	.90	6044

Fig. 1 Miniature

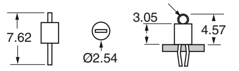

Fig. 2 Compact

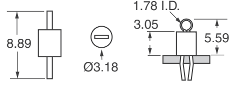

Fig. 3 Multipurpose

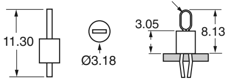

Fig. 4

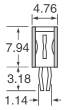

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE ELECTRONICS CORP

SMT Test Points

RoHS COMPLIANT

Miniature • Ultra low profile ideally suited for advanced surface mount printed circuit board applications • Designed for long life and durability • Manufactured using flat wire to provide a large mounting surface area • Ideal for use with miniature probes, clips, and hooks • Efficient, safe, board level testing.

Compact • Unique design provides exceptional strength and durability • Simplifies testing on dense SMT circuit boards • Ideal for use with most standard probes, clips and hooks • Efficient, safe, board level testing

Fig. 1 Miniature

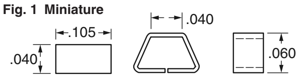

Fig. 2 Compact

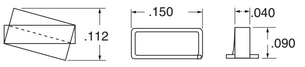

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 50	250	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Keystone Part No.
1	Miniature	5015KCT-ND	.32	.28	.23	5015KTR-ND	137.71	5015
2	Compact	5016KCT-ND	.30	.26	.22	5016KTR-ND	128.09	5016

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE ELECTRONICS CORP

Binding Post

RoHS COMPLIANT

Fig. 1

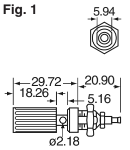

Fig. 2

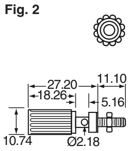

Fig. 3

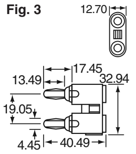

Fig.	Description	Base Color	Digi-Key Part No.	Price Each 1	10	100	Keystone Part No.
1	Standard	Red	7004K-ND	4.62	4.32	3.11	7004
1	Standard	Black	7005K-ND	4.62	4.32	3.11	7005
2	Economy	Red	7006K-ND	5.61	5.24	3.77	7006
2	Economy	Black	7007K-ND	5.61	5.24	3.77	7007
3	Dual Banana Plugs	Red	6088K-ND	13.73	12.82	9.23	6088
3	Dual Banana Plugs	Black	6089K-ND	13.73	12.82	9.23	6089
—	Dual Banana Plugs	—	7021K-ND	11.34	10.59	6.89	7021

3M

Electronics Vacuum and Accessories

Electronic Vacuum

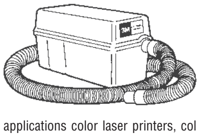

Complete with hose, 32" ~ 10 ft. (81.28cm ~ 3.05 meters), wand, crevice tool, crevice tool brush, dusting brush, needle nozzle, 3 year warranty.

OPTIONS: Shoulder strap with shoulder pad.

SPECIFICATIONS: Electrical: 115VAC, 50/60Hz, 5.0 amps. **Dimensions:** Length: 17.80" (45.21cm). Width: 7.75" (19.69cm). Height: 9.25" (23.50cm). Weight: 9 lbs. 14 oz. (4.48kg). **Motor:** 1HP, continuous duty, thermally protected with automatic reset. Conducted RFI filtered (reduces EMI to be below FCC requirements).

Filter: Type 1, Small Particle: For trapping extremely fine particles. Typical applications color laser printers, color copiers and highly sensitive equipment. **Type 2, Medium Particle:** Designed to trap unwanted toner from copiers and laser printers, cleaning typewriters and data processing equipment.

Description	Digi-Key Part No.	Price Each 1	10	3M Part No.
Electronic Vacuum Cleaner 115 Vac	SCP148-ND	229.61	214.31	SV-497AJM
Carrying Strap with Shoulder Pad	SCP149-ND	11.53	10.76	SV-CS1
Type 1 Filter, Small Particle	SCP150-ND	23.68	22.11	SV-SPF1
Type 2 Filter, Medium Particle	SCP151-ND	13.31	12.43	SV-MPF2
Replacement Hose for Electronic and Tool Case Vacuum Cleaners				
30" Hose, Stretches to Approximately 10'	SCP230-ND	34.30	—	SV-SH32
50" Hose, Stretches to Approximately 16'	SCP231-ND	62.38	—	SV-SH50

3M

Breadboard Jumper Wire Kit

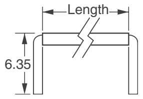

• 350 wires • 14 different lengths • Wire is stripped • Leads bent 90° • Length is classified by color coding • Wire is solid tinned 22 gauge • PVC insulation

Kit contains 25 each of 14 different lengths.

923351-ND $30.60

Replacement Wire

Length In. (mm)	Qty./ Pkg.	Color	Digi-Key Part No.	Pricing
0.1 (2.54)	200	(No Insulation)	923345-01-ND◆	$10.98 per Pkg.
0.2 (5.08)	200	Red	923345-02-ND◆	
0.3 (7.62)	200	Orange	923345-03-ND◆	
0.4 (10.16)	200	Yellow	923345-04-ND◆	
0.5 (12.70)	200	Green	923345-05-ND◆	
0.6 (15.24)	150	Blue	923345-06-ND◆	
0.7 (17.78)	150	Violet	923345-07-ND◆	
0.8 (20.32)	150	Gray	923345-08-ND◆	
0.9 (22.86)	150	White	923345-09-ND◆	
1.0 (25.40)	100	Brown	923345-10-ND◆	
2.0 (50.80)	100	Red	923345-20-ND◆	
3.0 (76.20)	75	Orange	923345-30-ND◆	
4.0 (101.60)	75	Yellow	923345-40-ND◆	
5.0 (127.00)	75	Green	923345-50-ND◆	

◆ ***RoHS Compliant***

3M

A•C•E Board™ Solderless Breadboards

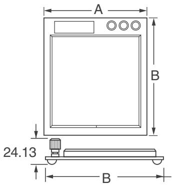

FEATURES:

• 0.1" x 0.1" (2.54mm) solderless tie point matrix accepts all DIP sizes and a wide variety of discrete components with lead diameters up to .032" (.81mm) • Capacities range from 610 ~ 5424 tie points

• Accommodate from 6 ~ 54, 14 pin DIPs • Separate distribution bases for power, ground and signal lines • Molded alphanumeric grid for faster, easier tie point identification • Circuit elements are easily connected with #22 AWG solid wire • Strip bodies are constructed of durable Acetal Copolymer with Alloy 688 terminals • Durable baseplates keep boards stationary during use and help to minimize noise and voltage spikes in today's high speed circuits.

AxCxE Model	DIP Capacity (Size)	Base Dim. Inch (cm) A	B	Total Tie Points	Total 5-Tie Point Term.	Binding Posts	Digi-Key Part No.	Price Each
354	54 (14-Pin)	14.69 (37.31)	9.75 (24.77)	5424	768	4	922354-ND	117.14
345	45 (14-Pin)	12.44 (31.60)	9.75 (24.77)	4520	640	4	922345-ND	105.02
336	36 (14-Pin)	10.25 (26.04)	9.25 (23.50)	3648	512	4	922336-ND	76.28
327	27 (14-Pin)	8.0 (20.32)	9.25 (23.50)	2712	384	4	922327-ND	73.51
318	18 (14-Pin)	7.75 (19.69)	6.25 (15.88)	1824	256	3	922318-ND	45.89
309	9 (14-Pin)	7.0 (17.78)	4.0 (10.16)	840	128	3	922309-ND	26.26
306	6 (14-Pin)	5.4 (13.72)	4.0 (10.16)	610	94	2	922306-ND	23.30

3M

Super Strips and Circuit Strips

Universal Breadboarding Elements with Solderless Plug-In Tie Points

As with all solderless breadboarding units from 3M, components simply plug-in and are interconnected with ordinary solid hook-up wire; #22 AWG is recommended.

All sizes of DIPs and discrete components with lead diameters up to .032" (.82mm) can be accommodated.

These handy strips may be permanently mounted with the integral non-shorting instant-mounting backing, or for quick removal, they may be mounted with screws on panels up to 1/8" (3.18mm) thick.

Hardware and mounting templates are provided with every strip.

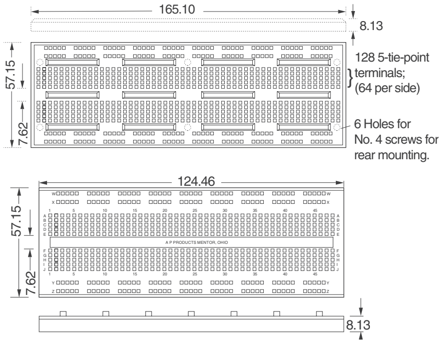
165.10
8.13
57.15
7.62
128 5-tie-point terminals; (64 per side)
6 Holes for No. 4 screws for rear mounting.
124.46
57.15
7.62
8.13

SPECIFICATIONS

	SUPER-STRIP	CIRCUIT-STRIP
Size:	2.25" x 6.50" x .32" (57.15mm x 165.10mm x 8.13mm)	2.25" x 4.90" x .32" (57.15mm x 124.46mm x 8.13mm)
Plug-In Tie-Points:	840	610
Materials: Body	Acetal Copolymer	Acetal Copolymer

SUPER-STRIP

Terminals	Digi-Key Part No.	Price Each
Alloy 770	923252-ND	24.60
Gold (10m)	923748-ND	77.77

CIRCUIT-STRIP

Terminals	Digi-Key Part No.	Price Each
Alloy	923253-ND	14.47
Gold (10m)	923749-ND	78.67

K

VECTOR
ELECTRONICS & TECHNOLOGY, INC

Prototype Boards

Vector Prototyping Boards with punched holes are convenient economical tools for assembling circuit components and cost effective alternatives to custom designs. Use general purpose Plugboards and Bus specific for edgeboard connection prototyping, while Circboards are ideal for cutting down to smaller board sizes.

• Holes on 0.1" (2.54mm) grid .042" (1.07mm) diameter (.043" [1.09mm] on V1018 and V1029) • Ejector Hole • Plating: Gold/Nickel • Board Material: Epoxy Glass Composite.

PC/XT and AT Expansion Units:

• Marked edge contact identification • Gold plated edge contacts on 0.1" centers • Power and ground buses terminate to connectors • Pads on board and bracket accepts DB9-, 15-, 25- or 37-Pin I/O connector • Accepts Vector's press terminals for wiring and soldering • Holes are .042" (1.07mm) diameter or 0.1" (2.54mm) grid • 1/16" (1.59mm) thick epoxy glass material, gold/nickel contacts • Universal mounting bracket and card guide included • Layout planning sheets and instructions included • Plugs into any IBM AT slot with dual connectors (AT unit only) • Pads for mounting dual, row 0.1" (2.54mm) spaced header (AT unit only)

Circbords™: • .042" (1.07mm) diameter holes on 0.1" (2.54mm) grid • 1/16" (1.59mm) thick, epoxy glass composite boards • Flame retardant • Etched copper patterns are solder plated.

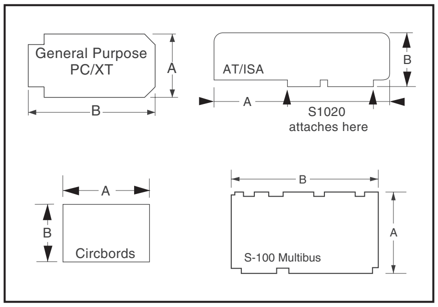

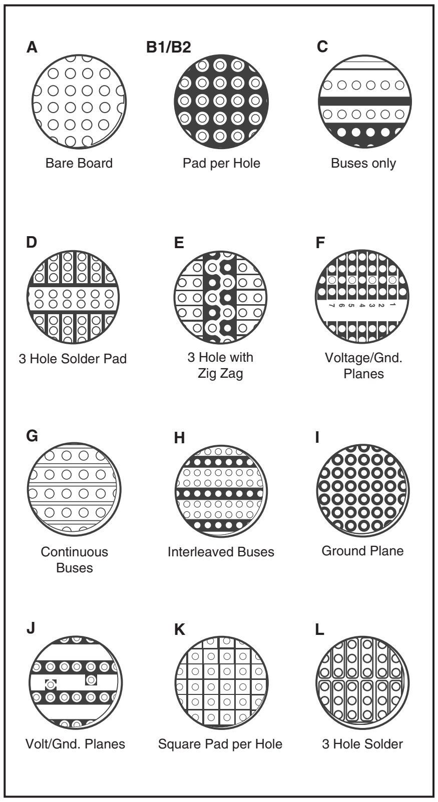

PC BOARD PATTERNS

A	Edgeboard Contacts Only
B1	Pad Per Hole W/ Buses
B2	Pad Per Hole Only
C	Buses Only Around Bare Board
D	3-Hole Solder Pad W/Buses
E	3-Hole Solder Pad, Zig-Zag Buses and Ground Plane
F	Voltage/Gnd. Planes
G	Buses Only - 2 Sides
H	Interleaved Buses
I	Clearance-Hole Ground Plane
J	Voltage/Ground Planes
K	Pad-Per-Hole Only
L	3-Hole Solder Pad

PCB	Edge Contacts		Dimensions Inch (cm)		16-Pin Dip	Digi-Key	Price Each			Accessories				Vector
										Connectors				
Pattern	No.	Spacing Inch (mm)	A	B	Cap.	Part No.	1	10	25	Solder Tail	Wire Wrap	Card Extender	Card Racks	Part No.
General Purpose Plugboards														
A	44	.156" (3.96)	4.50 (11.43)	9.60 (24.38)	90	V1129-ND◆	33.38	29.35	26.05	V1062	V1196	V1024	V1050	3662-2
B1/B1			4.50 (11.43)	6.50 (16.51)	45	V1018-ND	41.44	36.44	32.34	V1062	V1196	V1024	V1050-52	3662-9
A			4.50 (11.43)	4.50 (11.43)	40	V1017-ND◆	23.00	20.23	17.95	V1062	V1196	V1024	V1050-52	3662-5
A			4.50 (11.43)	6.50 (16.51)	50	V1016-ND	25.84	22.72	20.17	V1062	V1196	V1024	V1050-52	3662
H			4.50 (11.43)	6.50 (16.51)	24	V1023-ND	30.01	26.39	23.42	V1062	V1196	V1024	V1050-52	3682-2
D			4.50 (11.43)	6.50 (16.51)	12	V1020-ND	27.63	24.29	21.56	V1062	V1196	V1024	V1050-52	3677-2
E			4.50 (11.43)	9.60 (24.38)	40	V1128-ND	38.02	33.43	29.67	V1062	V1196	V1024	V1050	4112
E			4.50 (11.43)	6.50 (16.51)	25	V1031-ND	30.92	27.19	24.13	V1062	V1196	V1024	V1050-52	4112-4
E			4.50 (11.43)	4.50 (11.43)	8	V1032-ND	28.03	24.64	21.87	V1062	V1196	—	—	4112-5
D			4.50 (11.43)	9.60 (24.38)	21	V1019-ND	33.38	29.35	26.05	V1062	V1196	V1080	V1053	3677
H			4.50 (11.43)	6.50 (16.51)	24	V1130-ND	50.38	44.29	39.31	V1062	V1196	V1024	V1050	3682-4
I			4.50 (11.43)	6.50 (16.51)	90	V1131-ND	41.44	36.44	32.34	V1062	V1196	V1024	V1050	3662A6
A	72	.100 (2.54)	4.50 (11.43)	6.50 (16.51)	50	V1027-ND◆	31.09	27.33	24.26	S1364	V1061	V1079	V1050-52	3719-1
B1			4.50 (11.43)	6.50 (16.51)	40	V1029-ND	44.04	38.72	34.37	S1364	V1061	V1079	V1050-52	3719-6
—			4.50 (11.43)	6.50 (16.51)	34	V1132-ND	27.28	23.99	21.29	S1364	V1061	V1024	V1050	4066-4
A			4.50 (11.43)	9.60 (24.38)	90	V1028-ND	34.51	30.34	26.93	S1364	V1061	V1079	V1053	3719-4
PC/XT (Standard Bus)														
D	56	.125	4.50 (11.43)	6.50 (16.51)	20	V1111-ND	31.85	28.00	24.85	S2284	—	V1115	V1050-52	4610V
A			4.50 (11.43)	6.50 (16.51)	59	V1112-ND◆	30.03	26.40	23.43	S2284	—	V1115	V1050-52	4610-1
B1/B2			4.50 (11.43)	6.50 (16.51)	52	V1114-ND	44.04	38.72	34.37	S2284	—	V1115	V1050-52	4610-3
AT/ISA Expansion Units														
C	(XT)	(2.54)	13.23 (33.60)	4.20 (10.67)	84	V1036-ND	52.03	45.75	40.60	S1314	—	V1025	—	4613-1
B1			13.23 (33.60)	4.20 (10.67)	91	V1038-ND	59.84	52.61	46.69	S1314	—	V1025	—	4613-3
D	62/36 (AT)	.100 (2.54)	13.25 (33.66)	4.80 (12.19)	—	V1039-ND	78.06	68.63	60.91	—	—	V1026	—	4617
C			13.25 (33.66)	4.80 (12.19)	108	V1040-ND	58.68	51.59	45.79	—	—	V1026	—	4617-1
B1			13.25 (33.66)	4.80 (12.19)	—	V1041-ND	79.48	69.88	62.02	—	—	V1026	—	4617-3
I	98	.100 (2.54)	13.25 (33.66)	4.80 (12.19)	140	V1137-ND	79.48	69.88	62.02	S1499-967	—	—	—	4617-4
—			13.25 (33.66)	4.80 (12.19)	140	V1138-ND	104.61	91.97	81.63	S1499-967	—	—	—	4617-5
CIRCBORDS (Plugboard Patterns Without The Expense Of Edgeboard Connectors)														
G	—	—	3.00 (7.62)	3.50 (8.89)	—	V2018-ND	5.75	5.06	4.49	—	—	—	—	8022
—			3.94 (10.01)	6.30 (16.00)	—	V2017-ND◊	34.03	29.92	26.56	—	—	—	—	8021
G			4.00 (10.16)	6.00 (15.24)	15	V1035-ND	21.64	19.03	16.89	—	—	—	—	8019
D			4.50 (11.43)	6.50 (16.51)	20	V1044-ND	23.00	20.23	17.95	—	—	—	—	8001
H			4.50 (11.43)	6.50 (16.51)	35	V1045-ND	25.33	22.28	19.77	—	—	—	—	8002
K			4.50 (11.43)	6.50 (16.51)	60	V1046-ND	25.30	22.24	19.74	—	—	—	—	8003
I			4.50 (11.43)	6.50 (16.51)	50	V1047-ND	27.63	24.29	21.56	—	—	—	—	8004
B2/B2			5.00 (12.70)	13.25 (33.66)	154	V1048-ND	47.03	41.35	36.70	—	—	—	—	8006
B2/J			4.50 (11.43)	6.50 (16.51)	60	V1049-ND	27.61	24.28	21.55	—	—	—	—	8007
D			4.50 (11.43)	8.08 (20.52)	21	V1021-ND	22.04	19.38	17.20	—	—	—	—	3677-6
K/K			4.50 (11.43)	8.08 (20.52)	80	V1034-ND	26.39	23.20	20.59	—	—	—	—	45P80-1
B2/B2			10.60 (26.92)	10.60 (26.92)	275	V1001-ND	61.66	54.21	48.11	—	—	—	—	106P106-1
—			18.00 (45.72)	10.69 (27.15)	—	V1116-ND†	157.98	138.88	123.26	—	—	—	—	106P180-4
B2/B2			12.86 (32.66)	4.00 (10.16)	124	V1117-ND	44.03	38.71	34.35	—	—	—	—	8010
B2/B2			11.00 (27.94)	9.20 (23.37)	283	V1118-ND	64.06	56.32	49.99	—	—	—	—	8012
S-100 Prototyping Boards														
B2/B2	50/100	.125 (3.18)	10.00 (25.40)	5.30 (13.46)	80	V1134-ND	50.03	43.99	39.04	—	—	—	—	8801-6
A			10.00 (25.40)	5.30 (13.46)	110	V1135-ND	50.03	43.99	39.04	—	—	—	—	8801-1
F/F			10.00 (25.40)	5.30 (13.46)	—	V1136-ND	60.04	52.79	46.85	—	—	—	—	8804
VME CIRCBORD Prototyping Boards														
B1	—	—	3.94 (10.01)	6.3 (16.00)	35	V1222-ND	20.69	18.20	16.15	—	—	—	—	E160-3U-1
I			3.94 (10.01)	6.3 (16.00)	45	V1223-ND	29.90	26.29	23.34	—	—	—	—	E160-3U-3
B1			6.3 (16.0)	9.19 (23.34)	100	V1226-ND	36.82	32.37	28.73	—	—	—	—	E160-6U-1
I			6.3 (16.0)	9.19 (23.34)	105	V1227-ND	32.21	28.32	25.14	—	—	—	—	E160-6U-3
L			6.3 (16.0)	3.94(10.01)	20	V1224-ND	32.74	28.79	25.55	—	—	—	—	4614
B1			6.3 (16.0)	3.94(10.01)	30	V1225-ND	32.01	28.15	24.98	—	—	—	—	4614-3
D			6.3 (16.0)	9.19 (23.34)	50	V1228-ND	36.02	31.67	28.11	—	—	—	—	4615
B1			8.66 (22.0)	9.19 (23.34)	140	V1229-ND	43.72	38.44	34.11	—	—	—	—	E220-6U-1
C			8.66 (22.0)	9.19 (23.34)	140	V1230-ND	50.63	44.52	39.51	—	—	—	—	E220-6U-2
F			8.66 (22.0)	9.19 (23.34)	168	V1231-ND	33.38	29.35	26.05	—	—	—	—	E220-6U-3
F			11.02 (28.0)	14.44 (36.68)	348	V1232-ND	75.95	66.77	59.26	—	—	—	—	E280-9U-3

◆ ***RoHS Compliant*** † V1116-ND has pad per hole with PTH, GND plane both sides. ◊ V2017-ND has .05" spacing with plated-thru holes.

VECTOR
ELECTRONICS & TECHNOLOGY, INC

Circuit Board Accessories

An excellent selection of socket pins, terminals, tools and accessories is available for all Vectorbord patterns, sizes and hole diameters. Perfect for breadboarding or prototyping using Vectorbord® plugboards™.

Fig. 1

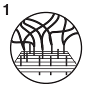

Fig. 2

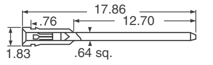

Fig. 3

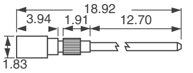

Fig. 4

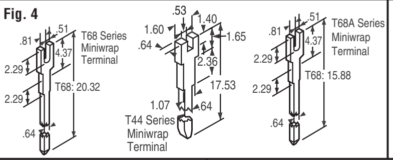

Fig. 5

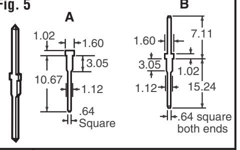

Fig. 6

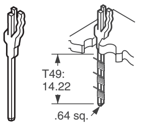

Fig. 7

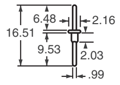

Material: Phosphor bronze

Fig. 8

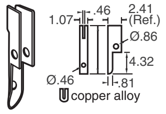

Fig. 9

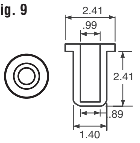

Fig. 10

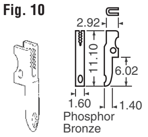

Fig. 11

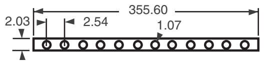

Install on circuit boards as an alternative to etched bus lines.

Fig. 12

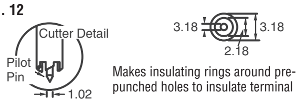

Makes insulating rings around pre-punched holes to insulate terminal points.

Fig. 13

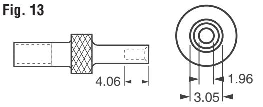

Fig. 14

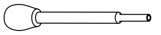

Fig. 15

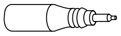

Fig. 16

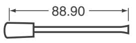

Fig. 17

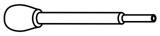

Fig. 18

Fig.	Description	Pkg. Qty.	Digi-Key Part No.	Price Each 1	Price Each 10	Vector Part No.
1	Slip-On Contacts for Tab-To-Wire Connection	50	V1065-ND	149.66	131.57	T120-1/50
2	Lo-Profile IC Socket Pins for .055" (1.40mm) Dia. Holes, Wrap Post	100	V1058-ND	27.61	24.28	R31/C
3	Lo-Profile IC Socket Pins for .042" (1.07mm) Dia. Holes, Wrap Post	100	V1059-ND	31.21	27.44	R32/C
	Lo-Profile IC Socket Pins for .042" (1.07mm) Dia. Holes, Wrap Post	1000	V1060-ND	227.94	200.39	R32/M
4	T44 Series Bifurcated Miniwrap Term. with .025" (.64mm) Sq. Posts	100	V1071-ND	12.01	10.56	T44/C
	T44 Series Bifurcated Miniwrap Term. with .025" (.64mm) Sq. Posts	1000	V1072-ND	62.77	55.19	T44/M
	T68 Series Bifurcated Miniwrap Term. with .025" (.64mm) Sq. Posts	100	V1077-ND	11.14	9.80	T68/C
	T68 Series Bifurcated Miniwrap Term. with .025" (.64mm) Sq. Posts	1000	V1078-ND	65.67	57.73	T68/M
	T68A Series Miniwrap Terminal	1000	V1110-ND	122.65	107.83	T68A/M
5A	Press-In Terminals with .025" (.64mm) Sq. Posts	1000	V1073-ND	108.64	95.51	T46-4-9/M
5B	Press-In Terminals with .025" (.64mm) Sq. Posts	100	V1074-ND	12.54	11.03	T46-5-9/C
6	Trifurcated Klipwrap Terminals with .025" (.64mm) Sq. Posts	100	V1075-ND	16.73	14.71	T49/C
	Trifurcated Klipwrap Terminals with .025" (.64mm) Sq. Posts	1000	V1076-ND	147.66	129.81	T49/M
7	Inboard Pins for 1/16" (1.60mm) Boards with .042" (1.07mm) Dia. Holes, Gold	1000	V1054-ND	115.12	101.20	K24A/M
	Inboard Pins for 1/16" (1.60mm) Boards with .042" (1.07mm) Dia. Holes, Tin	1000	V1055-ND	69.05	60.71	K24C/M
8	Micro-Klip Term. for 1/16" (1.60mm) Boards, .042" (1.07mm) Dia. Holes, Tin	100	V1069-ND	11.10	9.76	T42-1/C
	Micro-Klip Term. for 1/16" (1.60mm) Boards, .042" (1.07mm) Dia. Holes, Tin	1000	V1070-ND	53.27	46.84	T42-1/M
—	J-Pin Terminals for 1.07" (.042mm) Dia. with Holes (use with Micro-Klip)	100	V1171-ND	18.40	16.18	K32/C
	J-Pin Terminals for 1.07" (.042mm) Dia. with Holes (use with Micro-Klip)	1000	V1172-ND	161.14	141.67	K32/M
9	Rolled Flange Eyelet	500	V1066-ND	34.51	30.34	T123/500
10	Mini-Klip Term. for 1/16" (1.60mm) Boards with .062" (1.574mm) Dia. Holes, Tin	100	V1067-ND	11.41	10.04	T28/C
	Mini-Klip Term. for 1/16" (1.60mm) Boards with .062" (1.574mm) Dia. Holes, Tin	1000	V1068-ND	60.86	53.51	T28/M
11	Bus Strips With Round Punched Holes	10	V1064-ND	11.33	9.96	T107/10
12	Pad Cutter Tool with Handle, .040" (1.02mm) Holes for Copper Clad Boards	1	V1056-ND	64.30	56.53	P138A
	Pad Cutter Tool Shank only, .040" (1.02mm) Holes for Copper Clad Boards	1	V1057-ND	77.31	67.97	P138C
14	Hand Insertion Tool for T44		V1098-ND	28.01	24.63	A13
14	Hand Insertion Tool for T68		V1099-ND	29.76	26.16	A13-1
15	Hand Insertion Tool for T49		V1100-ND	82.86	72.85	P156
16	Hand Insertion Tool for T42-1		V1101-ND	32.49	28.56	P149
17	Hand Insertion Tool for K24A, T46		V1103-ND	78.28	68.82	P133A
18	Hand Insertion Tool for R31, R32		V1104-ND	132.31	116.32	P158
—	Hand Insertion Tool for T28		V2020-ND	89.74	78.90	P91A
13	Die for R32 Socket Pins		V1106-ND	73.07	64.24	D9
—	Die for R31 Socket Pins		V1173-ND	28.90	25.41	D10

Card Extenders

Current rating: 5A @ 108°F temperature rise
Voltage rating: 200 RMS or 300 VDC. Circuit contacts are gold/nickel plated .000010" gold over .000050" nickel
Connector contacts: Gold inlay .000030" thick, on CA725 copper/nickel alloy base
Board: epoxy glass composite - 2 oz. copperclad or FR4 per MIL-P-13949.

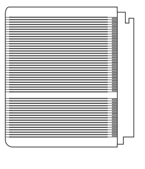

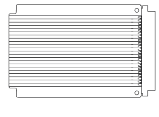

Vector Card Extenders are specifically designed to provide in-system testing of functioning circuit boards.

	Contacts		Dimensions					
Total	Each Side	Ctrs. In. (mm)	Width x Height Inch (cm)	Bus System Application	Digi-Key Part No.	Price Each 1	10	Vector Part No.
44	22	.156 (3.96)	4.5 x 6.5 (11.43 x 16.51)	—	V1024-ND	42.04	36.96	3690
44	22	.156 (3.96)	4.5 x 11 (11.43 x 27.94)	RCA Cosmac	V1080-ND	56.33	49.52	3690-6
36/62	18/31	.100 (2.54)	6.7 x 5.6 (17.02 x 14.22)	IBM AT	V1026-ND	80.06	70.39	3690-26
62	31	.100 (2.54)	3.18 x 5.7 (8.08 x 14.48)	IBM PC	V1025-ND	80.94	71.16	3690-22
72	36	.100 (2.54)	4.5 x 11.5 (11.43 x 29.21)	—	V1143-ND	75.33	66.23	3690-2
60/86	30/43	.1/.156 (2.54/3.96)	12 x 7.5 (30.48 x 19.05)	Multibus I	V1095-ND	124.05	109.06	3690-18
188	94	.050 (1.27)	6.7 x 5.6 (17.02 x 14.22)	EISA	V1108-ND	279.08	245.59	3690-32
56	28	.125 (3.18)	4.5 x 6.5 (11.43 x 16.51)	SDTI	V1115-ND	49.96	43.92	3690-16
100	50	—	Hgt. 7.5 (19.05)	S-100	V1144-ND	80.06	70.39	3690-12

Prepunched Insulating Boards

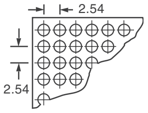

- Epoxy glass, except as noted

Dimensions - Inch (mm) Width x Length	Board Thickness	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
Micro-Vectorbords® — Holes .042" (1.07mm) Diameter; .100" (2.54mm) Grid						
4.5 x 17 (114.30 x 431.80)	.062	V1005-ND‡	15.03	13.22	11.73	169P44XXXP
4.5 x 6.5 (114.30 x 165.10)	.062	V1043-ND‡	8.14	7.16	6.35	64P44XXXP
4.5 x 17 (114.30 x 431.80)	.062	V1004-ND	21.60	19.00	16.86	169P44WE
8 x 17 (203.20 x 431.80)	.062	V1007-ND	33.43	29.40	26.09	169P79WE
8.5 x 17 (215.90 x 431.80)	.062	V1011-ND	30.58	26.88	23.86	169P84WE
8.5 x 17 (215.90 x 431.80)	.062	V1012-ND*	36.31	31.92	28.33	169P84WEC1
4.5 x 6.5 (114.30 x 165.10)	.062	V1042-ND	8.10	7.12	6.32	64P44WE
4.5 x 17 (114.30 x 431.80)	.062	V1002-ND†	14.07	12.37	10.98	169P44
4.5 x 17 (114.30 x 431.80)	.062	V1003-ND*†	26.23	23.06	20.47	169P44C1
8 x 17 (203.20 x 431.80)	.062	V1006-ND†	36.82	32.37	28.73	169P79
8.5 x 17 (215.90 x 431.80)	.062	V1008-ND†	31.40	27.60	24.50	169P84
8.5 x 17 (215.90 x 431.80)	.062	V1009-ND*†	42.68	37.52	33.30	169P84C1
10 x 17 (254 x 431.80)	.062	V1013-ND†	45.10	39.65	35.19	169P99
10 x 17 (254 x 431.80)	.062	V2019-ND	45.10	39.65	35.19	169P99WE
6.5 x 4.5 (165.10 x 114.30)	.062	V1119-ND†	8.10	7.12	6.32	64P44
4.5 x 8.5 (114.30 x 215.90)	.062	V1120-ND	12.79	11.25	9.99	84P44WE
6 x 17 (152.40 x 431.80)	.047	V1122-ND	21.09	18.55	16.46	169P59-047
6 x 17 (152.40 x 431.80)	.031	V1123-ND	21.59	18.98	16.85	169P59-032
6 x 17 (152.40 x 431.80)	.062	V1124-ND‡	16.73	14.71	13.05	169P59XXXP
4.5 x 17 (114.30 x 431.80)	.062	V1126-ND*	21.09	18.55	16.46	169P44WEC1
4.5 x 17 (114.30 x 431.80)	.062	V1127-ND§	22.08	19.41	17.23	169P44C2
Vectorbords — Holes .062" (1.57mm) Diameter; .100" (2.54mm) Grid						
4.8 x 17 (121.92 x 431.80)	.062	V1014-ND	31.96	28.10	24.94	170H48WE
8.51 x 17 (216.15 x 431.80)	.062	V1015-ND	49.03	43.11	38.26	170H85WE
8.5 x 8.5 (215.90 x 215.90)	.062	V1121-ND	28.26	24.85	22.06	85H85WE
4.8 x 8.5 (121.92 x 215.90)	.062	V1125-ND	17.04	14.98	13.30	85H48WE
Vectorbords — Holes .025" (.64mm) Diameter; .050" (1.27mm) Grid						
4 x 6.5 (101.60 x 165.10)	.037	V1140-ND	25.30	22.24	19.74	126M76-032
4 x 17 (101.60 x 431.80)	.037	V1141-ND	23.00	20.23	17.95	336M76-032
4 x 17 (101.60 x 431.80)	.037	V1142-ND*	23.00	20.23	17.95	336M76-032C1
Vectorbords — Holes .025" (.64mm) Diameter; .079" (2mm) Grid						
3.94 x 6.3 (100 x 160)	.037	V2015-ND	13.92	12.24	10.87	47Q78WE

Material: ‡ Phenolic * Copper clad, 1 side. § Copper clad, 2 side. † Epoxy Glass Composite

Slit-N-Wrap Tool and Wires

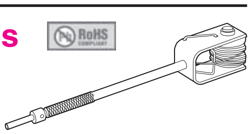

- No Pre-cutting or Pre-stripping
- Fast, reliable, spool fed wire
- Slits and opens insulation exposing bare wire before wire is wrapped on post, forming actual wire wrapped gas tight joint as tool is rotated.

Description	Digi-Key Part No.	Price Each	Vector Part No.
Manual Slit-N-Wrap Tool (#28), Includes Bit, 50' (15.24m) Roll of Green Wire	V1081-ND	232.21	P184-1
Replacement Wirewrap Bit #28	V1083-ND	75.82	02/1
Replacement Wirewrap Bit #30	V1084-ND	57.62	04/1
150' (45.72m) 28AWG Tefzel Wire Green	V1085-ND	28.79	W28-6AU
150' (45.72m) 28AWG Tefzel Wire Red	V1086-ND	22.35	W28-6BU
150' (45.72m) 28AWG Tefzel Wire Blue	V1087-ND	24.84	W28-6DU
150' (45.72m) 28AWG Tefzel Wire White	V1088-ND	24.84	W28-6EU
150' (45.72m) 28AWG Tefzel Wire Yellow	V1089-ND	24.84	W28-6FU

Card Racks

Designed in accordance with EIA standard, these 19” (48.26cm) subracks are compatible with Vector prototyping boards. All racks are adjustable in both height and depth and can be used with snap-in, plastic or metal card guides. Available in kit form (CCK) or fully assembled (CCA) all models feature brushed aluminum construction with a full line of prototyping boards, extenders and backplanes available. Card racks include nylon snap-in card guides.

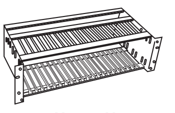

V1050, V1051, and V1053

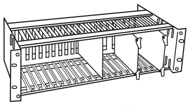

V1052

Card Size Range Inch (cm) W x H	Size Inch (cm) Width x Depth	Hgt.*	Guide Mnt. Method	Mat-erial	Digi-Key Part No.	Price Each 1	10	Vector Part No.
3.00-5.00 x 4.5 (7.62-12.70 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1145-ND	180.18	158.40	CCK12S/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1052-ND	180.18	158.40	CCK13S/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1051-ND	194.74	171.20	CCA13S/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Riveted	Zinc	V1050-ND	362.18	318.40	CCA13M/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	9.5 x 9.00 (24.13 x 22.86)	3U	Snap-In	Nylon	V1146-ND	172.90	152.00	CCK13S-H/90
8.60-10.1 x 4.5 (21.84-25.65 x 11.43)	19.00 x 12.00 (48.26 x 30.48)	3U	Snap-In	Nylon	V1053-ND	229.32	201.60	CCA14S/90
8.60-10.1 x 8 (21.84-25.65 x 20.32)	19.00 x 12.00 (48.26 x 30.48)	5U	Snap-In	Nylon	V1148-ND	237.67	208.95	CCA17S/90
4.0-8.50 x 10.0 (10.16-21.59 x 25.40)	19.00 x 9.00 (48.26 x 22.86)	7U	Snap-In	Nylon	V1149-ND	200.20	176.00	CCK100S/90
4.5 X 6.5 (11.43 x 16.51)	19.00 X 9.00 (48.26 x 22.86)	3U	Guide Plate	Alum.	V2001-ND	214.03	188.16	CCA13C/90

* 3U = 5.25” (13.34cm); 5U = 8.75U (22.23cm); 7U= 12.25” (31.12cm)

EIA Backplanes

Description	Width x Length Inch (cm)	Plugboard Series	Digi-Key Part No.	Price Each 1	10	Vector Part No.
8 Slot CCK13 Series Backplane	4.35 x 7.00 (11.05 x 17.78)	4610	V1096-ND	273.56	240.50	4610-8-1A
16 Slot CCK13 Series Backplane	4.35 x 13.00 (11.05 x 33.02)	4610	V1097-ND	366.00	321.76	4610-16-1A

Card Rack Accessories

Accessories for card rack enclosures for customizing your application. Card guides are tapered slides for PCB cards to slide along. Snap-In versions provide easy installation without the need for tools. Screw mount versions (comes with hardware) allow card placement anywhere within .25” (6.35mm) spacing.

Description	Length Inch (cm)	Digi-Key Part No.	Price Each 1	10	Vector Part No.
Grab Handle w/ Hardware for Card Racks 5.25” (13.34cm) and 8.75” (22.23cm) height	—	V1161-ND	13.81	12.15	HA12
Ejector Handle w/ Hardware for Cards (4 pcs./bag)	—	V1162-ND	11.03	9.70	HA9/4
T-Strut 1" wide for Customizing Card Rack	16.85 (42.80)	V2002-ND	8.28	7.28	TS169
T-Strut 1" wide for Customizing Card Rack	20.85 (52.96)	V2005-ND	9.19	8.08	TS209
Hardware Kit for Backplane Connector (42 pcs./total)	—	V2006-ND	13.52	11.89	HD34
Nut 4-40 Square Head for T-Strut (25 pcs./bag)	—	V2007-ND	7.15	6.29	NT4-7PA
Flat Head Screw 4-40 THD for T-Struts (25 pcs./bag)	.25 (.64)	V2004-ND	6.44	5.67	SC4-27/25
Bracket Kit for T-Struts	—	V2000-ND	11.28	9.92	BR16A
Plastic Screw Mount Card Guide (Pkg. of 12)	2.89 (7.34)	V1151-ND	27.30	24.00	CG2-45P
Plastic Screw Mount Card Guide (Pkg. of 12)	5.42 (13.77)	V1153-ND	25.63	22.53	CG2-65P
Plastic Screw Mount Card Guide (Pkg. of 12)	6.93 (17.60)	V1156-ND	26.06	22.92	CG2-80P
Plastic Screw Mount Card Guide (Pkg. of 12)	8.14 (20.68)	V1160-ND	26.48	23.28	CG2-95P
Nylon Snap-In Mount Card Guide (Pkg. of 12)	3.17 (8.05)	V1150-ND	16.56	14.56	CG2-45S
Nylon Snap-In Mount Card Guide (Pkg. of 12)	5.42 (13.77)	V1152-ND	14.60	12.84	CG2-65S
Nylon Snap-In Mount Card Guide (Pkg. of 12)	6.93 (17.60)	V1155-ND	21.46	18.87	CG2-80S
Nylon Snap-In Mount Card Guide (Pkg. of 12)	8.43 (21.41)	V1158-ND	18.60	16.36	CG2-95S
Metal Screw Mount Card Guide (Pkg. of 12)	6.93 (17.60)	V1157-ND	36.22	31.84	CG2-80M

PCI Development Boards

For fast development of adapter card to PCI bus.

P/N V1163-ND Features: • Multilayer board contains pad per hole patterns • Power and ground accessible throughout the board • For use in 5 Volt or 3.3 Volt applications • For use with Vector prototype accessories.

Description	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
PCI Plugboard +5V or 3.3V, Pad Per Hole, PTH	V1163-ND	261.83	230.18	204.29	4624-3
PCI Extender Test Card 5V for 32 or 64 Bit	V1166-ND	368.37	323.84	287.41	3690-34-5V
PCI Extender Test Card 3.3V for 32 or 64 Bit	V1167-ND	368.37	323.84	287.41	3690-34-3V
PCMCIA Adapter Board Assembly	V1168-ND	112.82	99.19	88.03	4625-1
PCMCIA Proto Board Kit 4.5” x 6.00” (11.43cm x 15.24cm), Pad Per Hole	V1169-ND	197.98	174.05	154.47	4625-3
PCMCIA Extender Test Card for Type II or III Slots	V1170-ND	155.61	136.80	121.41	3690-35

Edgeboard Connectors

Solder Eyelet Type Insulator Material: Phenolic, UL-94V-0 or Glass filled diallyl; Phthalate UL-94V-1 or Ryton R10 **Wrap Tail Type Insulator Material:** Phenolic, UL-94V-0 or Glass filled diallyl; Phthalate UL-94V-1 or Polyester (VALOX) UL-94V-0 **Contact Material:** Phosphor bronze QQ-B-750 or Beryllium copper **Contact Plating:** .000010” gold over .000050” nickel **Test Voltage:** 650VAC **Rated Current:** 3 Amps **Contact Res. Drop: 30 Mv Maximum** @ rated current **Insulation Resistance:** 5000MΩ, min. @ 500VDC

For 1/16" (1.60mm) Thick P.C. Boards

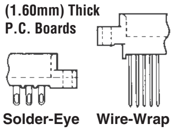

Ctrs. In. (mm)	No. Of Contacts	Termination Type	Mounting Ears	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
.100 (2.54)	72	Wrap Tail	Center	V1061-ND†*	22.82	20.07	17.81	R636-1
.156 (3.96)	44	Solder Eye	Flush	V1062-ND††	13.61	11.97	10.63	R644
.156 (3.96)	44	Wire Wrap	Flush	V1195-ND	13.38	11.76	10.44	R644-3F
.156 (3.96)	44	Wire Wrap	Center	V1196-ND	13.38	11.76	10.44	R644-3C

† Supplied with between-contact polarizing key. * Wrap Tail: 3-level, .025” (.64mm) Square
†† Supplied with between-contact polarizing key and in-contact polarizing key.

CompactPCI® Card Racks

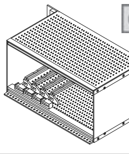

The newest specification for PCI-based computers is CompactPCI. It is electrically a superset of desktop PCI with a different physical form factor. CompactPCI utilizes the Eurocard form factor popularized by the VME bus. Card racks for CompactPCI Bus come completely assembled with card guides. Plug-in power supply and backplane are ordered separately. Standard 3U and 6U heights available with 4 or 8 slot card configurations.

Note: Vented top and bottoms are not included.

Description	Dim. – Inch (cm) Width	Depth	Hgt.	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
Card Rack cPCI	7.4 (18.80)	8.5 (21.59)	3U	V1176-ND	161.98	—	—	CCA26-36
Card Rack cPCI	9.0 (22.86)	8.5 (21.59)	3U	V1177-ND	263.90	—	—	CCA26-44-00
Card Rack cPCI	7.4 (18.80)	12 (30.48)	3U	V1174-ND	161.14	—	—	CCA27-36-00
Card Rack cPCI	19 (48.26)	10 (25.40)	6U	V1178-ND	227.94	200.39	177.85	CCA28-84-00
Optional Hardware Kit for Above Racks, 24 pcs. Total				V2003-ND	10.28	9.04	8.03	HD91
Card Guides Snap-In Style for Above Racks				V2008-ND	2.06	1.81	1.61	3250-0001-01

CompactPCI® Backplane

Features: • Backplane design is compliant with the CompactPCI specification 1.0 • CPU slot is on the right • A Drive connector for Peripheral Power is provided • A 4-pin Connector is provided for 12VDC fan connection

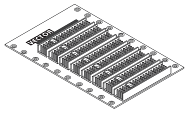

Description	Digi-Key Part No.	Price Each	Vector Part No.
Backplane for CompactPCI, 8 Slot, 6U	V1184-ND	1636.18	CPCIBP8-6-64

VME Card Racks

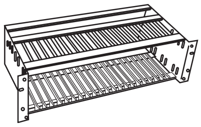

Vector VME Subracks are designed for 19” systems based on the DIN 41914 standard. Card Racks come in either completely assembled (CCA) or kit form (CCK). Card Guides are ordered separately. Vector backplanes are designed to meet VME bus Spec Rev C1 and Rev D.

Card Size	Rack Size	Hgt.	Guide Mount Method	Mat-erial	Digi-Key Part No.	Price Each 1	10	Vector Part No.
Assembled Racks								
3U x 160mm	19” x 9.27	3U	Snap-In	Nylon	V1212-ND	204.28	179.59	CCA160-3U
6U x 160mm	19” x 9.27	6U	Snap-In	Nylon	V1213-ND	239.44	210.50	CCA160-6U
3U x 220mm	19” x 11.63	3U	Snap-In	Nylon	V1214-ND	219.26	192.76	CCA220-3U
6U x 220mm	19” x 11.63	6U	Snap-In	Nylon	V1215-ND	219.77	193.20	CCA220-6U
Kitted Racks								
3U x 160mm	19” x 9.27	3U	Snap-In	Nylon	V1216-ND	196.91	173.11	CCK160-3U
3U x 160mm	19” x 11.63	6U	Snap-In	Nylon	V1217-ND	213.21	187.44	CCK160-3U
3U x 220mm	19” x 11.63	3U	Snap-In	Nylon	V1218-ND	200.36	176.15	CCK220-3U
6U x 220mm	19” x 11.63	6U	Snap-In	Nylon	V1219-ND	218.35	191.96	CCK220-6U
Card Guide 160mm Nylon Snap-In Mount, (Pkg. of 12)					V1220-ND	22.46	19.75	CG1-160/12
Card Guide 220mm Nylon Snap-In Mount, (Pkg. of 12)					V1221-ND	26.85	23.60	CG1-220/12

VME/DIN Backplanes

Vector Monolithic Series back planes are designed to meet VMEbus Specification Rev C1 and Rev D. All termination is placed inboard of the two end connectors to allow the maximum number of slots (21) in a 19” RETMA rack. Decoupling capacitors are provided at the ends. The resulting improved power distrubution as well as signal shielding in ground layers creates a high performance back plane with low signal cross talks. Press-fit 96-pin DIN connectors are used. The “P” series which uses a 10-pin power block or “bug” and #6-32 hardware or the “M” series which uses a combination of power bugs and Mate-N-Lok connectors.

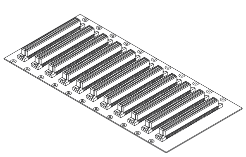

Description	Digi-Key Part No.	Price Each 1	10	Vector Part No.
5 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1200-ND	748.26	657.81	VMEBP05P11
10 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1202-ND	909.42	799.49	VMEBP10P11
12 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1203-ND	1378.25	1211.65	VMEBP12P11
12 Slot VME J1/J2, 6U Backplane with Mate-N-Lok Power	V1208-ND	978.49	860.21	VMEBP12M00
5 Slot VME J1/J2, 6U Backplane with Power Bugs & Mate-N-Lok	V1210-ND	748.26	657.81	VMEBP05S00

Edgeboard Connectors

96 Pin Din

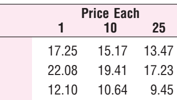

- **Connector Material:** Glass filled polycarbonate
- **Temperature Rating:** -55°C ~ 105°C

Termination Type	Male/ Female	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
Right Angle PC Mount	Female	V1233-ND	17.25	15.17	13.47	RE96FSR
Right Angle Wire Wrap	Female	V1250-ND	22.08	19.41	17.23	RE96FWR
Right Angle PC Mount	Male	V1235-ND	12.10	10.64	9.45	RE96MSR-062
Right Angle Long Lead PCB	Male	V1236-ND	12.99	11.43	10.14	RE96MSR-125
Right Angle Wire Wrap	Male	V1243-ND	23.88	21.00	18.64	RE96MWR
Straight Wire Wrap	Female	V1237-ND	13.80	12.13	10.77	RE96FW
Straight Wire Wrap	Male	V1238-ND	15.18	13.35	11.85	RE96MW
Straight PC Mount	Female (AutoBus)	V1239-ND	22.46	19.75	17.53	RE96FABG
Straight PC Mount	Female	V1234-ND	13.61	11.97	10.63	RE96FSD
Straight Press-Fit	Female	V1240-ND	9.19	8.08	7.18	RE96FSP
Straight Press-Fit Wire Wrap	Female	V1241-ND	14.94	13.14	11.66	RE96FWP

Twin Industries

Solderless Breadboards

Breadboards are commonly used for prototyping because they allow you to quickly build temporary circuits without soldering. Twin Industries premium quality solderless breadboards have aluminum ground plates for high speed and low noise, and a color coding Letter/ Number labeling scheme to assist in circuit layout and debugging. In addition, there are binding posts for convenient attachment of power sources, or input and output signals.

Dimensions in Inches (mm)

Fig. 1

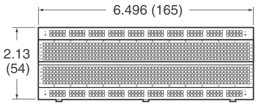

Fig. 3

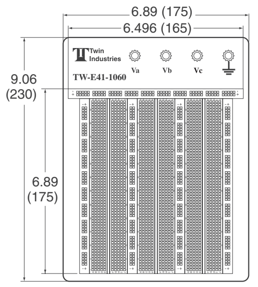

Fig. 2

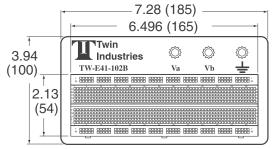

- 70 piece kit contains: 5 of each; 5", 4", 3", 2", 1", 0.9", 0.8', 0.7", 0.6", 0.5", 0.4", 0.3", 0.2" and 0.1" wires.
- 140 piece kit contains: 10 of each; 5", 4", 3", 2", 1", 0.9", 0.8', 0.7", 0.6", 0.5", 0.4", 0.3", 0.2" and 0.1" wires.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Twin Industries Part No.
1	830 Tie-Points	438-1045-ND	8.73	7.99	TW-E40-1020
	830 Tie-Points with 70 pcs. Wire Kit	438-1046-ND	13.44	12.29	TW-E41-1020
2	830 Tie-Points with 70 pcs. Wire Kit and Binding Post	438-1047-ND	19.74	18.05	TW-E41-102B
3	2390 Tie-Points with 140 pcs. Wire kit and Binding Post	438-1048-ND	37.45	34.24	TW-E41-1060
—	140 pcs. Wire Kit	438-1049-ND	9.98	7.99	TW-E012-000

SMT Adapter Boards

Surface mount components are soldered to pads on boards. Traces extend from pads to prototyping holes on standard 0.1" x 0.1" (2.54mm x 2.54mm) grid. Individual leads can be monitored or other components can be added to evaluate performance of surface mount product. Saves time and prototyping cost.

All boards made with FR4 laminate, and featuring ground plane on back side. Pad to pad spacing (pitch) is measured in mils (thousandths of inch).

PLCC

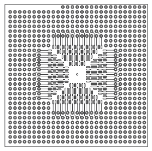

SOIC

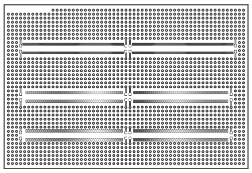

QFP44-100

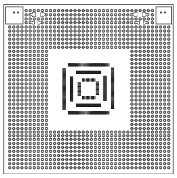

QFP100,128

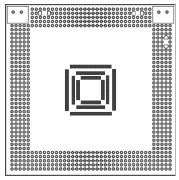

Description	Digi-Key Part No.	Price Each 1	10	Twin Industries Part No.
PLCC 20, 28, 44, 64, 84	438-1031-ND	50.51	44.40	8100-SMT3
SOIC Medium, Wide, Plastic, (50 mil pitch)	438-1014-ND	21.84	19.20	8100-SMT4
SOIC Medium, Tiny, Metric, (25 mil/50mil pitch)	438-1017-ND	41.86	36.80	8100-SMT8
SOIC Medium, Tiny, Metric, (25 mil/50mil pitch)	438-1057-ND◆	43.95	38.64	8100-SMT8-LF
QFP 44-100, 160, (25 mil pitch)	438-1015-ND	29.12	25.60	8100-SMT6
QFP 80 (20 mil pitch) 6" x 4" Board	438-1033-ND	40.04	35.20	8100-SMT11
QFP 100, 128, 144, 208, 240, (20 mil pitch)	438-1016-ND	41.86	36.80	8100-SMT7
TSOP 40, 48, 56, (20 mil pitch); PSOP 44 (50 mil pitch); SSOP 56 (30 mil pitch)	438-1018-ND	69.16	60.80	8100-SMT9
TSSOP (20 mil pitch) 6" x 4" Board	438-1032-ND	40.04	35.20	8100-SMT10
TSSOP (20 mil pitch) 6" x 4" Board	438-1058-ND◆	42.04	36.96	8100-SMT10-LF
QFP 80 (20 mil pitch) 6" x 4" Board	438-1033-ND	40.04	35.20	8100-SMT11
TQFP 64 (20 mil pitch) 6" x 4" Board	438-1054-ND	40.04	35.20	8100-SMT14

◆ ***RoHS Compliant***

General Purpose Prototyping Boards

High quality prototyping boards for use in hardware development, rapid prototyping, and wire wrapping projects.

Features:

- FR4 glass epoxy material, 0.062" thick
- High temp laminate for lead free boards
- Grid holes spaced on 0.1" x 0.1" (2.54mm x 2.54mm) centers
- Hole size .042" (.035" plated) • PTH = Plated Thru Hole • NP = Non-Plated

Operating Temperature:

Standard: 140°C
Lead Free: 170°C

Fig. 1

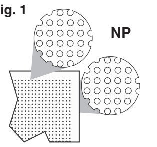

Fig. 2

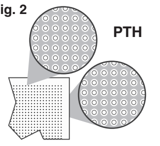

Fig. 3

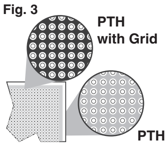

Fig. 4

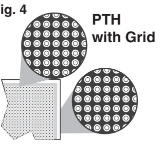

Description – Inch (mm)	Digi-Key Part No.	Price Each 1	10	Twin Industries Part No.
Fig. 1 - 7100 Series — Unclad (No Copper) — RoHS Compliant				
4 x 5 (101.6 x 127)	438-1019-ND	4.73	4.16	7100-45
4.5 x 6.5 (114.3 x 165)	438-1037-ND	8.37	7.36	7100-4565
4.5 x 6.5 (114.3 x 165) .062" Holes	438-1034-ND	8.37	7.36	7100-062-4565
4.5 x 8.5 (114.3 x 216) .062" Holes	438-1035-ND	12.65	11.12	7100-062-4585
4 x 10 (101.6 x 254)	438-1036-ND	10.10	8.88	7100-410
10 x 10 (254 x 254)	438-1020-ND	23.66	20.80	7100-1010
10 x 20 (254 x 508)	438-1021-ND	45.50	40.00	7100-1020
Fig. 2 - 8000 Series — Plated Thru Hole, Double Sided				
4 x 5 (101.6 x 127)	438-1022-ND	13.78	12.12	8000-45
4 x 5 (101.6 x 127) Gold Plating Over Copper	438-1051-ND◆	14.47	12.72	8000-45-LF
4.5 x 6.5 (114.3 x 165)	438-1040-ND	21.84	19.20	8000-4565
4.5 x 6.5 (114.3 x 165)	438-1060-ND◆	22.93	20.16	8000-4565-LF
6.3 x 3.9 (160 x 100) 2mm Pitch	438-1038-ND	25.21	22.16	8000-2MM-3U
4 x 10 (101.6 x 254)	438-1039-ND	26.39	23.20	8000-410
4 x 10 (101.6 x 254) Gold Plating Over Copper	438-1050-ND◆	27.76	24.40	8000-410-LF
10 x 10 (254 x 254)	438-1023-ND	61.88	54.40	8000-1010
10 x 10 (254 x 254)	438-1059-ND◆	64.97	57.12	8000-1010-LF
10 x 20 (254 x 508)	438-1024-ND	116.48	102.40	8000-1020
Fig. 3 - 8100 Series — Plated Thru Hole, GND Plane				
4 x 5 (101.6 x 127)	438-1025-ND	13.78	12.12	8100-45
4 x 5 (101.6 x 127) Gold Plating Over Copper	438-1052-ND◆	14.47	12.72	8100-45-LF
4.5 x 6.5 (114.3 x 165)	438-1042-ND	21.84	19.20	8100-4565
4 x 10 (101.6 x 254)	438-1041-ND	26.39	23.20	8100-410
10 x 10 (254 x 254)	438-1026-ND	61.88	54.40	8100-1010
10 x 20 (254 x 508)	438-1027-ND	116.48	102.40	8100-1020
Fig. 4 - 8200 Series — Plated Thru Hole, Two GND Plane				
4 x 5 (101.6 x 127)	438-1028-ND	13.78	12.12	8200-45
4 x 5 (101.6 x 127) Gold Plating Over Copper	438-1053-ND◆	14.47	12.72	8200-45-LF
4.5 x 6.5 (114.3 x 165)	438-1044-ND	21.84	19.20	8200-4565
4 x 10 (101.6 x 254)	438-1043-ND	26.39	23.20	8200-410
10 x 10 (254 x 254)	438-1029-ND	61.88	54.40	8200-1010
10 x 20 (254 x 508)	438-1030-ND	116.48	102.40	8200-1020

◆ ***RoHS Compliant***

Extender Cards

Bus extender cards allow units under test (UUT) to be developed in functioning systems. The extenders allow access to the UUT and prevent damage to test systems from repeated removals and insertions. Models with test point allow monitoring of signal activity.

Fig. 1

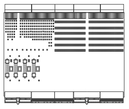

Fig. 2

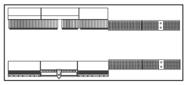

Fig. 3

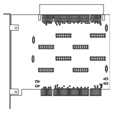

Fig. 4

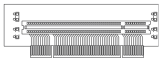

Fig. 5

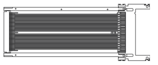

Fig. 6

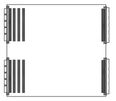

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Twin Industries Part No.
—	CompactPCI 3U (J1-2)	438-1072-ND ***NEW!***	85.14	80.13	2000-50
	CompactPCI 6U x 80mm Rear I/O (J1-5)	438-1071-ND ***NEW!***	109.19	102.77	2000-80
	CompactPCI 6U	438-1070-ND ***NEW!***	168.30	158.40	2000-200
—	CompactPCI 3U with Test Points 160mm x 3U	438-1055-ND◆	273.00	263.90	2000-EXTM-LF
1	CompactPCI 6U with Test Points 160mm x 6U	438-1056-ND◆	492.00	475.60	2000-6U-EXTM-LF
—	CompactPCI 6U x 80mm	438-1003-ND	450.00	435.00	2000-6U-80EX
2	CompactPCI 6U x 80mm Rear I/O (J3-5)	438-1068-ND◆	417.00	403.10	2000-6U-80EX-REAR-LF
3	PCI, 64 Bit, 4 Layer with Test Points (3.3V or 5V)	438-1066-ND◆	132.60	124.80	7564-UEXTM-LF
4	PCI, 32 Bit, Right Angle Riser Card	438-1007-ND	51.00	48.00	7586-RAEXTM
	PCI, 32 Bit, Right Angle Riser Card	438-1062-ND◆	51.00	48.00	7586-RAEXTM-LF
	PCI, 32 Bit, Left Angle Riser Card	438-1061-ND◆	51.00	48.00	7586-LAEXTM-LF
5	PCMCIA, 4 Layer, 2.13" x 6.35" (54mm x 161mm)	438-1065-ND◆	105.40	99.20	3300-EXTM-LF
—	ISA, 2 Layer	438-1013-ND	58.29	51.20	7098-EXT
6	VME with Test Points for all Signals	438-1063-ND◆	183.60	172.80	8196-6U-EXT-LF
—	PMC Card Extender (J/P 1-4)	438-1069-ND◆ ***NEW!***	473.62	445.76	2500-EXTM-LF

◆ ***RoHS Compliant***

INJECTORALL
Electronics Corp.

Positive Coated Sensitized Copper Clad Boards

RoHS COMPLIANT

Make your own professional looking prototype boards with trace widths as narrow as .005" (.13mm). All boards are FR4 material and come packaged individually in a black bag with blue header.

CAUTION: Do not open in direct sunlight, open in darkroom environment only.

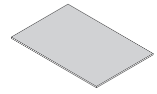

Coated Copper Clad PC Board

Developer and etchant solution available from Injectorall.

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
Single Sided			
1/16" (1.59mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC17P-ND	4.95	PC17P
4 x 6 (10.16 x 15.24)	PC18P-ND	7.93	PC18P
4.5 x 7 (11.43 x 17.78)	PC18P-C-ND	8.32	PC18P-C
6 x 6 (15.24 x 15.24)	PC18P-S-ND	9.50	PC18P-S
6 x 9 (15.24 x 22.86)	PC19P-ND	14.50	PC19P
12 x 12 (30.48 x 30.48)	PC19P-T-ND	35.05	PC19P-T
12 x 18 (30.48 x 45.72)	PC19AP-ND	52.55	PC19AP
1/16" (1.59mm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC9P-ND	7.36	PC9P
4 x 6 (10.16 x 15.24)	PC10P-ND	12.16	PC10P
6 x 9 (15.24 x 22.86)	PC11P-ND	25.87	PC11P
12 x 12 (30.48 x 30.48)	PC11P-T-ND	60.89	PC11P-T
Double Sided			
1/16" (1.59mm) Thick, 1/2 oz Copper			
12 x 18 (30.48 x 45.72)	PC77P-ND	86.62	PC77P
1/16" (1.59mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC40P-ND	6.06	PC40P
4 x 6 (10.16 x 15.24)	PC41P-ND	8.83	PC41P
4.5 x 7 (11.43 x 17.78)	PC41P-C-ND	11.60	PC41P-C
6 x 6 (15.24 x 15.24)	PC41P-S-ND	13.25	PC41P-S
6 x 9 (15.24 x 22.86)	PC42P-ND	18.75	PC42P
12 x 12 (30.48 x 30.48)	PC42P-T-ND	49.99	PC42P-T
Single Sided			
1/32" (.79mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC55P-ND	4.26	PC55P
4 x 6 (10.16 x 15.24)	PC56P-ND	7.16	PC56P
4.5 x 7 (11.43 x 17.78)	PC56P-C-ND	8.51	PC56P-C

Positive PC Board Accessory

RoHS COMPLIANT

The UV exposure lamp is a 15W lamp for exposing the presensitized board. Intended to be used with your fluorescent 18" bi-pin fixture.

Description	Digi-Key Part No.	Price Each	Injectorall Part No.
18" Fluorescent Exposure Lamp, Bi-Pin	PC557F- ND	21.58	PC557F

Unclad PC Boards

RoHS COMPLIANT

Unclad (no copper) pc boards made of FR4 fiberglass material. Ideal for isolation of point-to-point wiring and wire wrapping applications.

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
1/32" (.79mm) Thick			
6 x 9 (15.24 x 22.86)	PC57-UNCLAD-ND	6.50	PC57-UNCLAD
12 x 18 (30.48 x 45.72)	PC58-UNCLAD-ND	21.71	PC58-UNCLAD
1/16" (1.59mm) Thick			
3 x 4.5 (7.62 x 11.43)	PC5-UNCLAD-ND	3.00	PC5-UNCLAD
4 x 6 (10.16 x 15.24)	PC6-UNCLAD-ND	4.66	PC6-UNCLAD
6 x 9 (15.24 x 22.86)	PC7-UNCLAD-ND	9.00	PC7-UNCLAD
12 x 18 (30.48 x 45.72)	PC8-UNCLAD-ND	23.99	PC8-UNCLAD

Drilled Copper Clad Breadboards

RoHS COMPLIANT

Double sided copper clad boards with drilled holes on .1" centers. Hole diameter of .042" fits most components. Perfect for use with pad cutting tool to customize your circuits. 1/16" thick board.

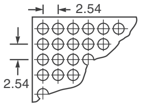

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
3 x 4.5 (7.62 x 11.43)	B3426D-ND	9.05	B3426D
4 x 6 (10.16 x 15.24)	B3427D-ND	13.42	B3427D
5.75 x 8.5 (14.60 x 21.59)	B3428D-ND	22.80	B3428D
5.75 x 17 (14.60 x 43.18)	B3429D-ND	38.00	B3429D
11.5 x 17 (29.21 x 43.18)	B3429AD-ND	70.00	B3429AD

Uncoated Copper Clad Boards

RoHS COMPLIANT

All boards are made from FR4 material. 1/2 oz. copper is ideal for shorter etching times and very fine trace lines. Use 2 oz. and thicker for higher current applications and heatsinking. 1/16 inch thick boards are standard with thinner boards offering board flexibility and reduced weight.

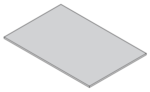

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
Single Sided			
1/16" (1.59mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC5-ND	3.10	PC5
4 x 6 (10.16 x 15.24)	PC6-ND	4.10	PC6
4.5 x 7 (11.43 x 17.78)	PC6-C-ND	4.46	PC6-C
6 x 6 (15.24 x 15.24)	PC6-S-ND	5.10	PC6-S
6 x 9 (15.24 x 22.86)	PC7-ND	7.25	PC7
12 x 12 (30.48 x 30.48)	PC7-T-ND	15.24	PC7-T
12 x 18 (30.48 x 45.72)	PC8-ND	22.86	PC8
18 x 18 (45.72 x 45.72)	PC8-E-ND	34.29	PC8-E
1/16" (1.59mm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC9-ND	4.66	PC9
4 x 6 (10.16 x 15.24)	PC10-ND	7.45	PC10
4.5 x 7 (11.43 x 17.78)	PC10-C-ND	8.81	PC10-C
6 x 6 (15.24 x 15.24)	PC10-S-ND	10.02	PC10-S
6 x 9 (15.24 x 22.86)	PC11-ND	15.11	PC11
12 x 12 (30.48 x 30.48)	PC11-T-ND	28.46	PC11-T
12 x 18 (30.48 x 45.72)	PC12-ND	42.67	PC12
18 x 18 (45.72 x 45.72)	PC12-E-ND	54.64	PC12-E
Double Sided			
1/16" (1.59mm) Thick, 1/2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC74-ND	4.26	PC74
4 x 6 (10.16 x 15.24)	PC75-ND	6.73	PC75
6 x 6 (15.24 x 15.24)	PC75-S-ND	9.03	PC75-S
6 x 9 (15.24 x 22.86)	PC76-ND	14.31	PC76
12 x 12 (30.48 x 30.48)	PC76-T-ND	24.34	PC76-T
1/16" (1.59mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC40-ND	3.25	PC40
4 x 6 (10.16 x 15.24)	PC41-ND	3.87	PC41
6 x 6 (15.24 x 15.24)	PC41-S-ND	5.80	PC41-S
6 x 9 (15.24 x 22.86)	PC42-ND	6.57	PC42
12 x 12 (30.48 x 30.48)	PC42-T-ND	17.50	PC42-T
12 x 18 (30.48 x 45.72)	PC43-ND	26.27	PC43
18 x 18 (45.72 x 45.72)	PC43-E-ND	39.40	PC43-E
1/16" (1.59mm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC51-ND	4.66	PC51
4 x 6 (10.16 x 15.24)	PC52-ND	7.45	PC52
6 x 9 (15.24 x 22.86)	PC53-ND	15.11	PC53
12 x 12 (30.48 x 30.48)	PC53-T-ND	28.46	PC53-T
12 x 18 (30.48 x 45.72)	PC54-ND	42.67	PC54
Single Sided			
1/32" (.79mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC55-ND	3.33	PC55
4 x 6 (10.16 x 15.24)	PC56-ND	4.35	PC56
6 x 9 (15.24 x 22.86)	PC57-ND	7.78	PC57
12 x 12 (30.48 x 30.48)	PC57-T-ND	15.59	PC57-T
Double Sided			
1/32" (.79mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC44-ND	4.26	PC44
4 x 6 (10.16 x 15.24)	PC45-ND	6.73	PC45
6 x 9 (15.24 x 22.86)	PC46-ND	14.31	PC46
12 x 12 (30.48 x 30.48)	PC46-T-ND	24.34	PC46-T
12 x 18 (30.48 x 45.72)	PC47-ND	36.50	PC47
Single Sided			
.014" (.036mm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC94-ND	2.33	PC94
6 x 9 (15.24 x 22.86)	PC96-ND	7.78	PC96
12 x 18 (30.48 x 45.72)	PC97-ND	23.37	PC97

3M

Terminal and Distribution Strips

RoHS COMPLIANT

Fig. 1

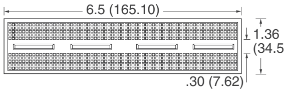

Fig. 2

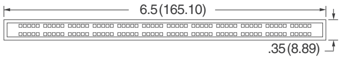

Fig. 3

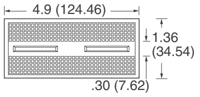

Fig. 4

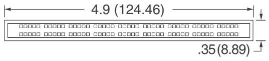

Fig. 5

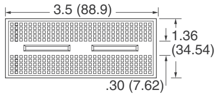

Fig. 6

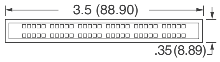

Fig. 7

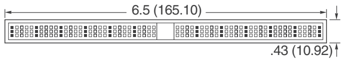

Fig. 8

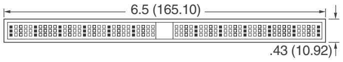

Fig. 9

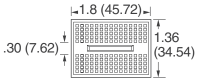

Fig.	Description	Digi-Key Part No.	Price Each
1	Terminal Strip, 128 five-tie-point terminals	923261-ND	19.02
2	Distribution Strip, 24 four-tie-point terminals	923277-ND	7.72
3	Terminal Strip, 96 five-tie-point terminals	923265-ND	15.72
4	Distribution Strip, 18 four-tie-point terminals	923281-ND	7.38
5	Terminal Strip, 68 five-tie-point terminals	923269-ND	12.32
6	Distribution Strip, 24 four-tie-point terminals	923285-ND	6.98
7	Terminal Strip, 54 four-tie-point terminals w/solder tails, vinyl backed, mounting screws provided	923292-ND	14.37
8	Distribution Strip, 36 four-tie point terminals	923293-ND	10.17
9	Terminal Strip, 34 five-tie-point terminals	923273-ND	8.27

Uncoated Copper Clad Boards

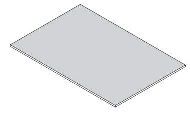

We offer 1/16", 1/32" and 1/64" FR4 laminate with 1 ounce copper per square foot. This flame retardant laminate is translucent in color and made of continuous woven glass cloth impregnated with epoxy resin. The copper on 1 ounce board is 1.34 mil thick (0.0341mm). The boards are made of FR4 which is a flame retardant version of G-10 material. Developed specifically for the circuit processing industries requirements. Complies with Mil-S-13949H-GFK. Provides ultraviolet blocking and fluorescence when using automated optical inspection (AOI). UL #E37002A

PCB Thickness	Dimension	Copper	Digi-Key Part No.	Price Each
Single Sided				
1/16"	3" x 5"	1oz.	473-1000-ND	4.42
1/16"	4" x 6"	1oz.	473-1001-ND	5.44
1/16"	6" x 6"	1oz.	473-1002-ND	6.72
1/16"	6" x 9"	1oz.	473-1003-ND	9.54
1/16"	8" x 10"	1oz.	473-1004-ND	14.66
1/16"	12" x 12"	1oz.	473-1005-ND	19.14
1/32"	4" x 6"	1oz.	473-1008-ND	5.68
1/32"	6" x 9"	1oz.	473-1009-ND	9.98
1/32"	12" x 12"	1oz.	473-1026-ND	19.62
1/64"	6" x 9"	1oz.	473-1012-ND	9.98
Double Sided				
1/16"	6" x 6"	1oz.	473-1006-ND	7.62
1/16"	12" x 12"	1oz.	473-1007-ND	21.76
1/32"	4" x 6"	1oz.	473-1010-ND	6.22
1/32"	6" x 9"	1oz.	473-1011-ND	10.38
1/32"	12" x 12"	1oz.	473-1027-ND	22.44
1/64"	6" x 9"	1oz.	473-1013-ND	10.38

Positive Coated Presensitized Boards

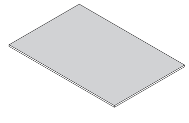

Our presensitized boards provide high resolution and excellent fine line control. They are ideal for prototypes, small production runs, and student training. White protective peel-off liner is attached to protect board from incident light and scratching. We also offer a large thin (12" x 18" x 1/32 inch) cat#675 paper phenolic presensitized board (Easy Cutting!!), perfect for cutting into smaller boards with no special equipment. Perfect for the classroom.

PCB Thickness	Dimension	Copper	Digi-Key Part No.	Price Each
Single Sided				
1/16"	3" x 5"	1oz.	473-1014-ND	9.30
1/16"	4" x 6"	1oz.	473-1015-ND	9.98
1/16"	6" x 6"	1oz.	473-1016-ND	11.32
1/16"	6" x 9"	1oz.	473-1017-ND	16.68
1/32"	4" x 6"	1oz.	473-1020-ND	10.18
1/32"	6" x 9"	1oz.	473-1021-ND	16.68
Paper Phenolic Single Sided				
1/32"	12" x 18"	1oz.	473-1018-ND	36.10
Double Sided				
1/16"	6" x 6"	1oz.	473-1023-ND	15.60
1/16"	6" x 9"	1oz.	473-1024-ND	21.36
1/32"	6" x 9"	1oz.	473-1025-ND	21.36
1/64"	6" x 9"	1oz.	473-1022-ND	21.36
Paper Phenolic Double Sided				
1/32"	8" x 12"	1oz.	473-1019-ND	30.08

Exposure Kit

Convenient kit required to "expose" presensitized copper-clad boards. Includes exposure tube, clear-acrylic weight for artwork, fluorescent-light fixture with stand and complete instructions.

473-1030-ND	PCB Photo Exposure Kit - 115VAC	**$53.52**
473-1031-ND	Replacement Exposure Bulb	**$11.98**

Economical Etching System

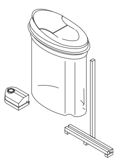

Ideal for students and hobbyists.
An inexpensive etching solution.

- 5 liter heavy duty polyethylene etching tank
- Air pump and tubing
- Sparging unit
- Bag of vinyl gloves
- Complete instructions

473-1029-ND	Economical Etching System..................	**$42.82**

Etching Copper Clad Circuits

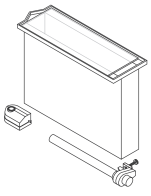

- 7 liter heavy duty polyethylene etching tank
- Sturdy mounting bracket
- Clear acrylic lid
- Heavy duty air pump
- Three way adjustable airline manifold
- Triple line sparging unit
- 200 watt "Over the Side" immersion heater with quartz element, preset/ adjustable temperature control
- Adhesive digital thermometer
- Bag of vinyl gloves
- Complete instructions

Description	Digi-Key Part No.	Price Each
Kit Etching PCB with Heater and Pump	473-1028-ND	196.00
Replacement Immersion Heater - 115VAC	473-1039-ND	40.12
Transparency Film (5 sheets), 8" x 11.5"	473-1038-ND	10.64
Foam Brush for ethcant or developer	473-1040-ND	2.34
Latex Disposable Gloves (10 pr gloves)	473-1041-ND	7.96

Desoldering Braid

Super Wick™

RMA type flux, Come on static dissipative spools on all sizes. No Clean Wick (NS) offers Halide free residue that is non-corrosive and does not require cleaning.

Length Feet	Width Inches	Color	Digi-Key Part No.	Price Each
Fine Braid RMA Flux				
5	0.025	#1 White (SMT)	473-1060-ND	2.82
5	0.050	#2 Yellow	473-1061-ND	2.82
5	0.075	#3 Green	473-1062-ND	2.94
5	0.100	#4 Blue	473-1063-ND	3.18
5	0.125	#5 Brown	473-1064-ND	3.54
25	0.050	#2 Yellow	473-1065-ND	13.32
25	0.075	#3 Green	473-1066-ND	13.32
25	0.100	#4 Blue	473-1067-ND	14.66
50	0.050	#2 Yellow	473-1069-ND	26.72
50	0.075	#3 Green	473-1070-ND	26.72
50	0.100	#4 Blue	473-1071-ND	28.06
100	0.050	#2 Yellow	473-1072-ND	52.18
100	0.075	#3 Green	473-1073-ND	52.18
100	0.100	#4 Blue	473-1074-ND	54.86
Fine Braid No Clean				
5	0.050	#2 Yellow	473-1075-ND	3.18
5	0.075	#3 Green	473-1076-ND	3.30
5	0.100	#4 Blue	473-1077-ND	3.54
50	0.075	#3 Green	473-1078-ND	30.74
50	0.100	#4 Blue	473-1079-ND	33.42

Prototyping Maintenance / Repair Pens

Convenient micro tip pen allows for delicate spot repair and maintenance on circuit boards. Choose from a wide range of pens.

Description	Digi-Key Part No.	Price Each
Etch Resistant Trace Pen	473-1032-ND	7.96
Rosin Flux Pen	473-1033-ND	7.96
Flux Remover Rework Pen	473-1034-ND	6.62
Conductive Silver Trace Pen	473-1035-ND	22.70
Green Overcoat Pen (Acrylic)	473-1036-ND	10.64
Silicone Conformal Coating Pen	473-1037-ND	11.98

NEW! Potting and Encapsulating Compound

2 Part Kit

Provides excellent protection from impact, shock, moisture, abuse, chemicals, and analysis. Provides technology security. Excellent for explosion proof components. **Features:** • Non-conductive, an electrical insulator • Non-porous • Water and chemical resistant • Provides excellent technology security, extremely difficult to remove once cured • Excellent machining properties • Suitable for explosion proof components, spark arresting • Low toxicity • Easy and simple to mix • Long pot life • Can be cured in one hour at 65°C (150°F)

Description	Digi-Key Part No.	Price Each	MG Part No.
Standard Black Compound, 375 ml	473-1082-ND	37.44	832B-375ML
Standard Clear Compound, 375 ml	473-1083-ND	36.10	832C-375ML
Flame Retardant Epoxy, 375 ml	473-1084-ND	40.12	832FRB-375ML
Thermally Conductive Epoxy, 450 ml	473-1089-ND	44.14	832TC-450ML
High Temperature Epoxy, 375 ml	473-1085-ND	42.80	832HT-375ML

Cleaning Wipes

Description	Digi-Key Part No.	Price Each	MG Part No.
Presaturated Alcohol Wipes - 75 wipes	473-1081-ND	11.98	8241-T
Presat. LCD Cleaning Wipes - 75 wipes	473-1080-ND	10.64	8242-T
Microfiber Super Cloth 10 wipes	473-1088-ND ***NEW!***	29.40	8281-10
LCD Cleaning Wipe 25 per box	473-1086-ND ***NEW!***	18.50	8242-WX25
Plasma Screen Cloth Individual	473-1087-ND ***NEW!***	7.96	8280

Brushes

Abrasive Brushes: Excellent utility brush. Great for cutting corrosion and removing oxides from connector ends. Also great for cleaning soldering iron tips. Burnish contacts without removing base metals. An excellent gold contact cleaner.

Non Abrasive Brushes: Excellent for removing flux and general cleanup. Can be used dry or wet. Works well with sticky or crusty materials.

Technical Cleaning Brushes: Works well for dusting, cleaning with fluids and general cleanup. Excellent for removing flux.

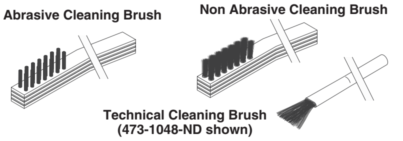

Abrasive Cleaning Brush

Non Abrasive Cleaning Brush

Technical Cleaning Brush (473-1048-ND shown)

Description	Digi-Key Part No.	Price Each
Abrasive Cleaning Brushes		
Stainless Steel, Brush Face 1 3/8" x 7/16"	473-1043-ND	7.96
Brass, Brush Face 1 3/8" x 7/16"	473-1044-ND	7.96
Non Abrasive Cleaning Brushes		
Hog Hair, Brush Face 1 3/8" x 7/16"	473-1045-ND	7.30
Hog Hair, Brush Face 2 1/4" x 1"	473-1046-ND	16.00
Horse Hair, Brush Face 1 3/8" x 7/16"	473-1047-ND	5.96
Technical Cleaning Brushes		
Horse Hair (5 pcs.), Brush Face 1/4" x 3/8"	473-1048-ND	3.94
Double Ended Horse Hair, Brush Face 1/4" x 5/16"	473-1049-ND	10.64
Wooden Chisel Hog Hair, Brush Face 3/4" x 5/16"	473-1050-ND	9.98

Swabs

Double Headed Cotton Swab: Low lint, extra absorbent U.S.P. pharmaceutical grade purified cotton bonded on a 6" white birch shaft for extra rigidness. Compatible with all solvents.

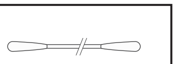

Tapered Swab: Low lint, extra absorbent U.S.P. pharmaceutical grade purified cotton bonded on a 6" white birch shaft for extra rigidness. Compatible with all solvents.

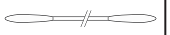

Antistatic Foam Over Cotton Swab: Antistatic, shred resistant, 100% urethane foam heads with 100 PPI porosity over extra absorbent U.S.P. pharmaceutical grade purified cotton. Bonded securely to a 6" birch shaft. Compatible with most solvents.

Foam Over Cotton Swab: Shred resistant, 100% urethane foam heads with 100 PPI porosity over extra absorbent U.S.P. pharmaceutical grade purified cotton. Bonded securely to a 6" birch shaft. Compatible with most solvents.

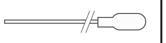

General Foam Swab: Shred resistant, 100% urethane foam heads with 100 PPI porosity. Bonded securely to a 6" birch shaft.

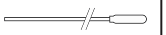

Rectangular Foam Swab: Large foam head bonded to sturdy handle for aggressive cleaning applications.

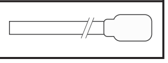

Description	Digi-Key Part No.	Price Each
Double Headed Cotton		
100 Swabs per package	473-1051-ND	4.34
Tapered		
Double Headed, 100 Swabs per package	473-1052-ND	4.34
Foam Over Cotton		
Single Headed, 10 Swabs per package	473-1053-ND	7.02
Single Headed, 50 Swabs per package	473-1054-ND	21.36
Antistatic Foam Over Cotton		
10 Swabs per package	473-1055-ND	7.96
General Foam		
Single Headed, 10 Swabs per package	473-1056-ND	5.68
Single Headed, 50 Swabs per package	473-1057-ND	18.70
Rectangular Foam		
10 Swabs per package	473-1058-ND	7.30
50 Swabs per package	473-1059-ND	21.36

PCB Fabrication Starter Kit and “Combo” Crossover Kit

The PCB “Fab-In-A-Box” Starter Kit makes it easy to fabricate single and double sided printed circuit boards. *GBC® Laminator is not included in these kits.*

Starter Kit Includes: • 20 Sheets TTS paper • 2 - 8” x 10” x .032” Single Sided PCBs • 2 - 8” x 10” x .032” Double Sided PCBs • Green TRF • White TRF • Sample Images

Fabricate single and double sided PCBs and create custom enclosure graphics with the “Combo” Crossover Kit.

Combo Kit Includes: • 20 Sheets TTS paper • 19 Foil Samples (8” x 36”) • 2 Fiberglass Laminate Carrier Boards • Carrier TRF (8” x 15’) • 3M Low-Tack Tape • 2 Alignment Carriers • KK-2000 Adhesive Spray • Alcohol Swabs • Sample Images • 2 - 8” x 10” x .032” Single Sided PCBs • 2 - 8” x 10” x .032” Double Sided PCBs • Green TRF • White TRF

182-1027-ND	PCB Fabrication Starter Kit for PCBs	**$74.95**
182-1028-ND	PCB Fabrication and DecalPRO “Combo” Kit for PCBs	**$149.95**

DecalPRO® Starter Kit

Make custom white, metallic and full color decals with the DecalPRO Kit. Ideal for “1-up” and prototyping projects. *Kit does not include laminator.*

Kit Includes: • 20 Sheets of TTS paper • 19 Foil Samples (8” x 36”) • 2 Fiberglass Laminate Carrier Boards • Carrier TRF (8” x 15’) • 3M Low-Tack Tape • 2 Alignment Carriers • KK-2000 Adhesive Spray • Alcohol Swabs • Sample Images • 4-page “Quick-Start” Instructions

182-1026-ND	DecalPRO Starter Kit for Dry-Transfer Text Graphics	**$89.95**

TONER TRANSFER SYSTEM

Make instant circuit boards using any laser printer or photocopier!

Simple 3-Step Process:

1. Print circuit layout directly to TTS paper
2. Iron the image to copper-clad board
*3. Soak in water to remove paper; **now ready to etch!***

NO DARKROOM!
NO NEGATIVES!
NO CHEMICALS!
NO LOST TIME!

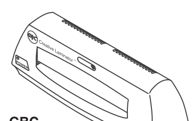

GBC Laminator

- Detailed instructions included for making single and double sided PCBs
- Also shows how to make custom full color decals for any application
- Sheet size: 8-1/2” x 11” (21.59cm x 27.94cm)

182-1030-ND	Economy Laminator .032” PCBs for PCB Fabrication	**$69.95**
182-1003-ND	TTS Paper Packet (10 Sheets)	**$13.80**

Printed Circuit Boards

2 Pack, Copper Clad, 1/2 oz. Copper

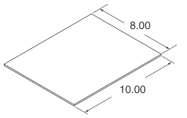

182-1017-ND	PCB Single Sided, .032", "8x10", 1/2 oz., 2 Panels	**$17.81**
182-1018-ND	PCB Double Sided, .032", "8x10", 1/2 oz., 2 Panels	**$19.99**

Toner Foils “Green TRF”

Simple 4-Step Process:

1. Transfer image to copper surface using the TTS paper
2. Iron on the Green TRF film
3. Pour 2 ounces Ferric Chloride into tray
4. Using an etchant soaked sponge, rub away the unwanted copper. (Disposable gloves required)

• Works in conjunction with TTS paper • Completely seals the toner • ZERO pitting • Able to use heavier copper boards • Size: 8” Wide x 15’

182-1021-ND	**$8.95**

Toner Foils “White TRF”

Use the White TRF for adding “silkscreen” artwork to your board! Place the white TRF paper over exposed toner “silkscreen” and apply heat to transfer the white pigment onto the toner, which is fused to the PCB. Perfect for finishing prototype boards and giving them a professionally silkscreened appearance. • Size: 8” Wide x 15’

182-1022-ND	**$8.95**

Drill Bits

INJECTORALL Electronics Corp.

Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	Injectorall Part No.
High Speed Steel				
.062” (1.57)	PC300-52-ND	1.77	1.29	PC300-52
.052” (1.32)	PC300-55-ND	1.96	1.43	PC300-55
.040” (1.02)	PC300-60-ND	1.96	1.43	PC300-60
.033” (.84)	PC300-66-ND	2.23	1.63	PC300-66
.029” (.74)	PC300-69-ND	2.51	1.83	PC300-69
.021” (.53)	PC300-75-ND	2.51	1.83	PC300-75
.0135” (.34)	PC300-80-ND	2.51	1.83	PC300-80
Carbide – All carbide bits have 1/8” (3.18mm) shank				
.062” (1.57)	PC300C-52-ND	9.26	8.11	PC300C-52
.052” (1.32)	PC300C-55-ND	7.55	6.61	PC300C-55
.040” (1.02)	PC300C-60-ND	7.55	6.61	PC300C-60
.033” (.84)	PC300C-66-ND	7.55	6.61	PC300C-66
.031” (.79)	PC300C-68-ND	7.55	6.61	PC300C-68
.029” (.74)	PC300C-69-ND	7.55	6.61	PC300C-69
.021” (.53)	PC300C-75-ND	12.01	10.51	PC300C-75
.0135” (.34)	PC300C-80-ND	12.01	10.51	PC300C-80

VECTOR ELECTRONICS & TECHNOLOGY, INC

Specialty Prototyping Boards

Fig. 1

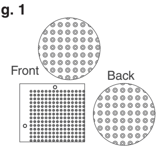

Fig. 2

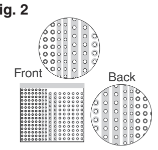

Fig. 3

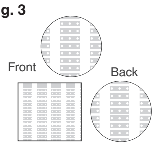

Fig. 4

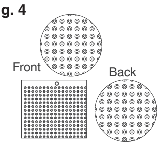

Fig. 5

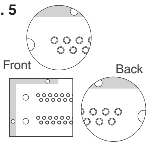

Fig. 6

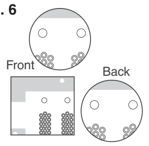

Material: FR-4

Fig.	Description	Dimensions W x L x H	Digi-Key Part No.	Price Each 1	10	25
1	Prototype Board, 2mm Grid, Pad-Per-Hole with J1 Connector, .025” holes plated thru	3.94” x 6.3” x .062”	V1253-ND	28.77	25.30	22.46
2	Combo Board, 2mm/.100” Grid, Pad-Per-Hole with J1, 0.25” and .042” holes plated thru	3.94” x 6.3” x .062”	V1254-ND	33.38	29.35	26.05
3	Prototype Board, 2mm Grid, Three Hole Solder Pads, 0.25” holes plated thru	3.94” x 6.3” x .062”	V1255-ND	20.15	17.72	15.72
4	Combo Board, 2mm/.100”/.050” Pad-Per-Hole 3-Grid Combo, 0.25” & 0.42” holes plated thru	3.94” x 6.3” x .062”	V1256-ND	20.15	17.72	15.72
5	Prototype Board, Standard Density 25, 15, 9 Pin, D-Sub, 0.39” Diameter Holes	3.94” x 6.3” x .062”	V1251-ND	23.00	20.23	17.95
6	Prototype Board, High Density 15, 26, 44, 62, 78, and 104 Pin, D-Sub, 0.39” Diameter Holes	9.19” x 6.3” x .062”	V1252-ND	29.90	26.29	23.34

Prototyping Boards

Fig. 1

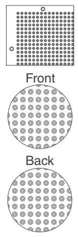

Fig. 2

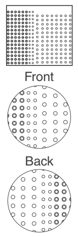

Fig. 3

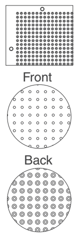

Fig.	Description	Dimensions W x L x H	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
1	Prototype Board, 2mm Grid, Pad-Per-Hole 0.25” Double Sided, PTH	3.94” x 6.3” x .062”	V2013-ND	17.53	15.41	13.68	8017
2	Combo Board, 2mm/.100” Grid, Pad-Per-Hole Double Sided, PTH	3.94” x 6.3” x .062”	V2014-ND	20.11	17.68	15.70	8018
1	Prototype Board, 1mm Grid, Pad-Per-Hole 0.25” Double Sided, PTH	3.94” x 6.3” x .062”	V2016-ND◆	34.03	29.92	26.56	8020
1	Low Cost Double Sided, .100 x .100” Grid, Pad-Per-Hole, PTH	4.00” x 6.00” x .062”	V2009-ND	11.52	10.13	8.99	8015
3	Low Cost Single Sided, .100 x .100” Grid, Pad-Per-Hole, PTH	4.00” x 4.00” x .062”	V2010-ND	7.33	6.45	5.73	8015-1
1	Low Cost Double Sided, .100 x .100” Grid, Pad-Per-Hole, PTH	6.00” x 9.00” x .062”	V2011-ND	19.47	17.12	15.20	8016
3	Low Cost Single Sided, .100 x .100” Grid, Pad-Per-Hole, PTH	6.00” x 6.00” x .062”	V2012-ND	10.59	9.32	8.27	8016-1

◆ ***RoHS Compliant***

GC™ ELECTRONICS

Professional PC Board Power Etching System and Etch Resist Ink Pens

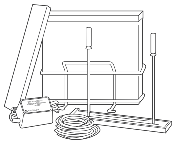

A semi-automatic etching device for use in labs, schools, prototype shops and for limited PC board production. Air pump agitates etching solution for fast, very even etches. Handles up to two 8” x 10” (20.32cm x 25.40cm) PC boards at a time, either single or double sided.

Etching Kit Contains:

• 1 Etching Tank (1.25 Gallon capacity; 4.73 Liters) and Reservoir Lid, 12” H x 2 1/2” W x 10 1/2” L (30.48cm x 6.35cm x 26.67cm), (Molded Polyethylene — ABS PC Board Holder), Capacity • 1 Etch-O-Matic Power Agitating Pump, 120V AC Operation • 1 Permanent or Portable Tip-Free Base • 1 PC Board Holder and Handle • 4 Feet (1.22 Meters) of Supply Hose

GC394-ND	Etching Kit	**$96.03**
GC392-ND	Etching Solution Heater	**$20.47**
GC220-ND	Standard Size Pen – draws lines approximately 1/32” (.79mm) wide — ***RoHS Compliant***	**$4.19**
GC222-ND	Fine Line Pen – draws lines as thin as 1/64” (.40mm) wide — ***RoHS Compliant***	**$4.46**

SURFBOARDS® by CAPITAL ADVANCED TECHNOLOGIES INC™

The Surfboard Concept: The concept behind SURFBOARDS is elegantly simple. Many models incorporate foil patterns that are designed to accommodate a wide variety of component mounting footprints. SURFBOARD® models for SOICs and PLCCs provide standard mounting footprints for the IC and depending on the model chosen, will include a prototyping area for additional components or provide a direct pin-out. Most SURFBOARD® models feature SIP (single in line) pins that make prototyping and interfacing with other circuits easy.

Specifications: • Material: G-10 FR-4 Fiberglass laminate, 1oz. Cu. .032" (.81mm). Thickness ±.005" (±.13mm) • Finish: Level 60/40 Solder alloy • S.I.P. Pins: On applicable models. Soldered on .100" (2.54mm) centers. SURFBOARDS® can be hand soldered and are compatible with most industrial soldering processes. (Suggested soldering and assembly guidelines included).

The universal circuit patterns allow for the mounting of 0603, 0805, 1206 and mini-melf packages as well as a wide variety of 3 terminal devices.

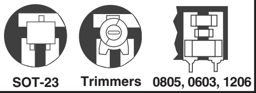

6000 Series for Discrete Devices — .1" (2.54mm) Pin Spacing

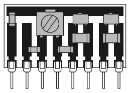

For building:
- Resistor Networks
- Capacitor Networks
- R-C Networks
- Diode Arrays
- Transistor Arrays
- SMD Sub-Assemblies

Fig. 1

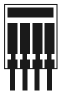

Fig. 2

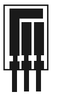

Fig. 3

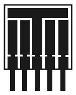

Fig. 4

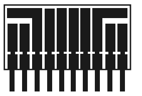

Fig. 5

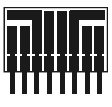

Fig. 6

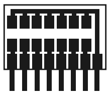

Fig. 7

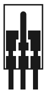

All 6000 Series boards are .5" (12.7mm) high with .1" (2.54mm) pin spacing. SURFBOARDS® with a greater pin count repeat the same basic pattern as shown.

Fig.	No. of Pins	Digi-Key Part No.	Pricing 1	Pricing 10
SURFBOARDS® for Discrete Components				
1	4	6004CA-ND◆	1.72	13.14
	6	6006CA-ND◆	2.04	15.66
	7	6007CA-ND◆	2.28	17.46
	8	6008CA-ND◆	2.51	19.26
	10	6010CA-ND◆	3.08	23.58
	12	6012CA-ND◆	3.67	28.08
2	3	6103CA-ND◆	1.48	11.34
	6	6106CA-ND◆	2.04	15.66
	9	6109CA-ND◆	2.63	20.16
	12	6112CA-ND	3.67	28.08
	15	6115CA-ND◆	4.23	32.40

◆ *RoHS Compliant*

Fig.	No. of Pins	Digi-Key Part No.	Pricing 1	Pricing 10
3	5	6405CA-ND◆	1.93	14.76
	10	6410CA-ND	3.08	23.58
	15	6415CA-ND◆	4.23	32.40
4	10	6510CA-ND◆	3.08	23.58
	20	6520CA-ND◆	5.17	39.60
5	8	6808CA-ND◆	2.51	19.26
	16	6816CA-ND◆	4.11	31.50
6	8	6908CA-ND◆	2.51	19.26
	16	6916CA-ND◆	4.11	31.50
SURFBOARDS® for SOT-89 — RoHS Compliant				
7	3	6303CA-ND	1.48	11.34
	6	6306CA-ND	2.04	15.66
	9	6309CA-ND	2.63	20.16

Master Assortment Kit for Discretes: The MK-6000 assortment contains 2 each of all 23 models in the 6000 series of SURFBOARDS® for discrete components.
MK-6000CA-ND **$99.00**

9000 Series for ICs

Build • prototype circuits • Evaluate ICs easily • Build circuit upgrades • Adapt SMD to thru-hole

Fig. 1 – Model 9081

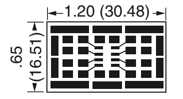

Fig. 2 – Model 9082

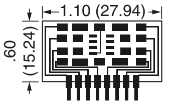

Fig. 3 – Model 9161

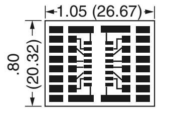

Fig. 4 – Model 9162

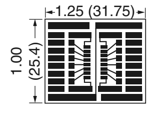

Fig. 5 – Model 9163

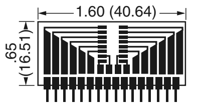

Fig. 6 – Model 9164

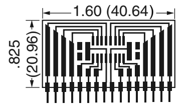

Fig. 7 – Model 9165

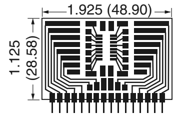

Fig. 8 – Model 9210

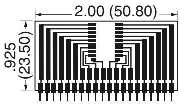

Fig. 9 – Model 9301

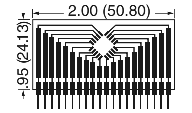

Fig. 10 – Model 9302

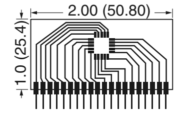

Fig.	Digi-Key Part No.	Pricing 1	Pricing 10
8 Pin SOIC			
1	9081CA-ND	1.60	12.24
2	9082CA-ND	4.11	31.50
16 Pin SOIC			
3	9161CA-ND	2.04	15.66
4	9162CA-ND	2.16	16.56
5	9163CA-ND	6.32	48.42
6	9164CA-ND	6.53	50.04
7	9165CA-ND	6.89	52.74
20 Pin, .3" (7.62mm) WIde			
8	9210CA-ND	7.47	57.24
20 Pin PLCC			
9	9301CA-ND	7.47	57.24
10	9302CA-ND	7.47	57.24

Master Asst. Kit for ICs:
32 pcs total (5 each of 9081, 9082, 9161, 9162, and 2 each of 9163, 9164, 9165, 9210, 9301, 9302)
MK-9000CA-ND........... **$99.00**

SURFBOARDS® by CAPITAL ADVANCED TECHNOLOGIES INC™

Application-Specific Adapters

• Accept Wide Range of Surface Mount Discrete Semiconductors and ICs
• Provide Convenient Medium for Prototyping, Test, and Development

Fig. 1 – Model 33003

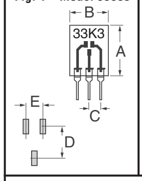

Fig. 2 – Model 33006

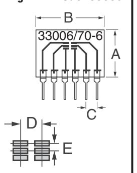

Fig. 3 – Model 33008

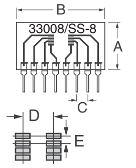

Fig. 4 – Model 33010

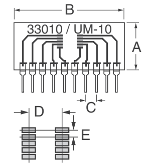

Fig. 5 – Model 33105

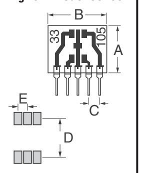

Fig. 6 – Model 33108

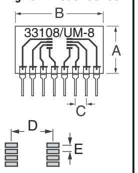

Fig. 7 – Model 33113

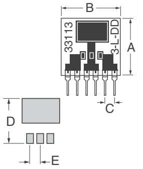

Fig. 8 – Model 33115

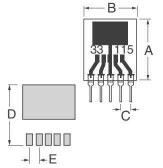

Fig. 9 – Model 33117

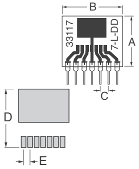

Fig. 10 – Model 33143

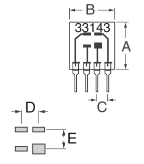

Fig. 11 – Model 33205

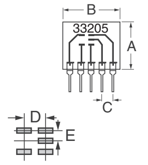

Fig. 12 – Model 33206

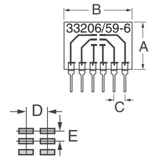

Fig. 13 – Model 33208

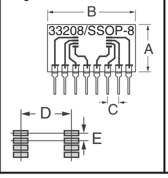

Fig. 14 – Model 33213

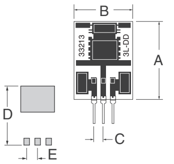

Fig. 15 – Model 33223

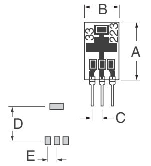

Fig. 16 – Model 33343

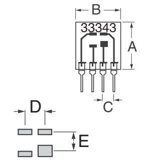

Fig. 17 – Model 33623

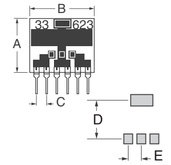

The 33000 Series of Surfboards® are application-specific adapters that convert surface mount component footprints to Single-In-Line (SIP) format. The boards feature pre-installed pins on .100" (2.54mm) centers making them compatible with conventional breadboards, solderless breadboards, and sockets. The SIP format provides ease of signal probing as well as higher densities when prototyping. Models are available to accept a wide range of surface mount devices and integrated circuits.

Models 33113 and 33623 feature two SIP pins for each pad for higher current applications. Model 33213 features large soldering pads as connection points and SIP pins for measuring purposes. Boards are .031" ± .005" (.79mm ±.13mm) thick FR-4 and feature solder-coated 1-oz. Circuit Foils that can be hand-soldered or soldered by most conventional processes.

SIP pins are soldered in place on .100" (2.54mm) centers. All boards feature solder mask to limit flow of solder to pad area and aid assembly. Just add parts and plug in.

Fig.	Dimensions — Inch (mm) A	B	C	D	E	SIP Pins	Accepts These Devices	Digi-Key Part No.	Pricing 1	10
1	.400 (10.16)	.300 (7.62)	.100 (2.54)	.080 (2.03)	.0512 (1.30)	3	SC-70-3, SOT-323, *NEC* Pkg-30	33003CA-ND◆	1.01	7.74
2	.400 (10.16)	.600 (15.24)	.100 (2.54)	.090 (2.28)	.0256 (.650)	6	SC-70-6, SOT-363	33006CA-ND◆	2.07	15.84
3	.400 (10.16)	.800 (20.32)	.100 (2.54)	.180 (4.57)	.0375 (.9530)	8	SuperSOT-8™ *(Fairchild)*	33008CA-ND◆	2.80	21.42
4	.400 (10.16)	1.0 (25.4)	.100 (2.54)	.200 (5.08)	.0197 (.500)	10	Micromax-10 *(Maxim)*................................	33010CA-ND◆	3.22	24.66
5	.400 (10.16)	.500 (12.7)	.100 (2.54)	.165 (4.19)	.060 (1.50)	5	SOT-89-5...	33105CA-ND◆	1.81	13.86
6	.400 (10.16)	.800 (20.32)	.100 (2.54)	.200 (5.08)	.0256 (.650)	8	MSOP-8, TSSOP-8, Micromax-8 *(Maxim)*, Micro-8 *(Int'l Rect.)*, Mini SO-8 *(Burr-Brown)*.......	33108CA-ND◆	2.80	21.42
7	.800 (20.32)	.600 (15.24)	.100 (2.54)	.625 (15.87)	.100 (2.54)	6	TO-263AB, 3-Lead D-Pkg	33113CA-ND◆•	2.84	21.78
8	.800 (20.32)	.500 (12.70)	.100 (2.54)	.625 (15.87)	.067 (1.70)	5	5-Lead DD Pkg., Surface Mount Device	33115CA-ND	2.37	18.18
9	.800 (20.32)	.700 (17.78)	.100 (2.54)	.625 (15.87)	.050 (1.27)	7	7-Lead DD Pkg., Surface Mount Device	33117CA-ND◆	3.22	24.66
10	.400 (10.16)	.400 (10.16)	.100 (2.54)	.100 (2.54)	.078 (1.99)	4	SOT-143, Surface Mount Device.....................	33143CA-ND◆	1.53	11.70
11	.400 (10.16)	.500 (12.7)	.100 (2.54)	.110 (2.79)	.0375 (.953)	5	SOT-23-5, SC59-5, *Burr-Brown* Pkg. 331, Tinylogic™ *(Fairchild)*, Microgate *(Texas Inst.)*.....	33205CA-ND◆	1.86	14.22
12	.400 (10.16)	.600 (15.24)	.100 (2.54)	.110 (2.79)	.0375 (.953)	6	SOT-23-6, SOT-23-L, SC59-6, TSOP-6‡, SuperSot-6™ *(Fairchild),* Micro-6™ *(Int'l Rect.)*....	33206CA-ND◆	2.07	15.84
13	.400 (10.16)	.800 (20.32)	.100 (2.54)	.300 (7.62)	.025 (.650)	8	SSOP-8...	33208CA-ND◆	2.80	21.42
14	1.125 (28.57)	.850 (21.59)	.100 (2.54)	.625 (15.87)	.100 (2.54)	3	TO-263AB, 3-Lead D-Pkg..............................	33213CA-ND◆•	3.45	26.46
15	.500 (12.70)	.300 (7.62)	.100 (2.54)	.275 (6.98)	.090 (2.28)	3	SOT-223, Surface Mount Device.....................	33223CA-ND◆	1.27	9.72
16	.400 (10.16)	.400 (10.16)	.100 (2.54)	.080 (2.03)	.051 (1.3)	4	SOT-343..	33343CA-ND◆	1.53	11.70
17	.500 (12.70)	.600 (15.24)	.100 (2.54)	.275 (6.98)	.090 (2.28)	6	SOT-223..	33623CA-ND◆•	2.30	17.64

◆ ***RoHS Compliant*** • Higher Current Applications ‡ Not exact device/pad match

OK Industries
Division of Jonard Industries Corp.

Wire Wrap Gun and Bits

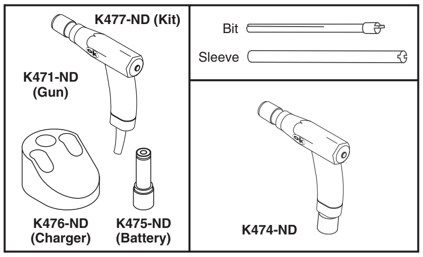

The PTX Series Wire Wrapping Tools for OK Industries bring revolutionary new benefits to installers, telcom technicians and other users. With worker safety in mind, OK Industries created an ergonomic tool which includes a lightweight, well-balanced construction, dual finger short throw trigger, and a long handle to mitigate pressure on the palm. These features help to prevent repetitive stresses and result in an industry leading design from a comfort and safety standpoint. Choose either 115V powered wire wrap/unwrap gun or the portable battery powered wrap/unwrap tool. PTX wire wrapping kit includes the ergonomic battery wrap/unwrap tool, battery charger and 2 batteries for continuous wire wrapping jobs.

Description	Digi-Key Part No.	Price Each
Tools / Guns		
Wire Wrap/Unwrap Gun 115V	K471-ND	255.21
Wire Wrap/Unwrap Gun w/ Backforce 115V	K472-ND	263.90
Cordura Tool Pouch for Battery Powered Tool	K473-ND	50.43
Battery Powered Wrap/Unwrap Gun	K474-ND	211.73
Kit		
Complete PTX Wire Wrap Kit, Gun, Charger, 2 Batteries	K477-ND	346.95
Replacement Battery / Charger		
Replacement Battery for PTX Wire Wrap Gun	K475-ND	48.86
Battery Charger for PTX Wire Wrap Gun	K476-ND	84.01
Sleeves and Bits		
Sleeve, 22AWG Insulated	K479-ND◆	28.86
Sleeve, 24-26AWG Insulated	K480-ND	28.86
Bit, 26AWG for .025" sq. Post	K483-ND	54.78
Bit, 28AWG for .025" sq. Post	K321-ND◆	54.79
Sleeve for 26AWG Bit	K324-ND◆	40.17
Bit, 26AWG for .025" sq. Post, .031" Max. Insul.	K323-ND◆	54.79
Sleeve for 28 and 30AWG Bit	K322-ND◆	40.16
Bit, 30-32AWG for .025" sq. Post	K485-ND◆	54.79
Bit, 30AWG for .025" sq. Post	K320-ND◆	60.86
Bit/Sleeve Set for 22-24AWG	K510-ND◆	119.58
Power Unwrap Bit / Sleeve — RoHS Compliant		
Power Unwrap Bit/Sleeve for 20-26AWG	K384-ND	66.94
Kynar® Wire Wrap Wire		
24AWG, Blue, 100' (30.48m)	K515-ND◆	19.10
24AWG, Black, 100' (30.48m)	K516-ND◆	19.10
24AWG, Red, 100' (30.48m)	K517-ND◆	19.10
24AWG, Yellow, 100' (30.48m)	K518-ND◆	19.10
24AWG, White, 100' (30.48m)	K519-ND◆	19.10
26AWG, Blue, 100' (30.48m)	K327-ND◆	14.42
26AWG, Black, 100' (30.48m)	K386-ND◆	14.42
26AWG, Red, 100' (30.48m)	K387-ND◆	14.42
26AWG, Yellow, 100' (30.48m)	K388-ND	14.42
26AWG, White, 100' (30.48m)	K389-ND◆	14.42
28AWG, Blue, 100' (30.48m)	K326-ND◆	12.50
28AWG, Black, 100' (30.48m)	K390-ND◆	12.50
28AWG, Red, 100' (30.48m)	K391-ND◆	12.50
28AWG, Yellow, 100' (30.48m)	K392-ND◆	12.50
28AWG, White, 100' (30.48m)	K393-ND◆	12.50
30AWG, Blue, 100' (30.48m)	K325-ND◆	11.17
30AWG, Black, 100' (30.48m)	K394-ND◆	11.17
30AWG, Red, 100' (30.48m)	K395-ND◆	11.17
30AWG, Yellow, 100' (30.48m)	K396-ND◆	11.17
30AWG, White, 100' (30.48m)	K397-ND◆	11.17
Low Strip Force Kynar Wire Wrap Wire — RoHS Compliant		
30AWG, Blue, 100' (30.48m)	K329-ND	21.25
30AWG, White, 100' (30.48m)	K443-ND	21.25
30AWG, Red, 100' (30.48m)	K444-ND	21.25
30AWG, Black, 100' (30.48m)	K445-ND	21.25
30AWG, Yellow, 100' (30.48m)	K520-ND	21.25
30AWG Blue, 1000' (304.80m)	K531-ND	85.42
30AWG White, 1000' (304.80m)	K532-ND	85.42
30AWG Black, 1000' (304.80m)	K533-ND	85.42
30AWG Red, 1000' (304.80m)	K534-ND	85.42
30AWG Yellow, 1000' (304.80m)	K535-ND	85.42

◆ ***RoHS Compliant***

Alignment Tool Kit

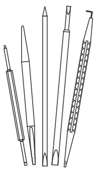

This 5 piece pocket kit contains a selection of the most popular non-conductive tools for aligning and adjusting components.

Kit contains: Trimpot, Alignment 2-in-1 Tool, Spudger, Orange Stick, Probe Pick.

K513-ND Alignment Tool Kit.................. **$7.00**

Manual Wire Wrap Tools

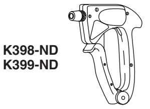

Description	Digi-Key Part No.	Price Each
Manual Wrap Tool - Lexan	K398-ND◆	121.40
Manual Wrap Tool - Aluminum	K399-ND	146.25
Manual Wrap Tool - Insulated Version	K478-ND◆	149.85

◆ ***RoHS Compliant***

Tri-Color Dispenser

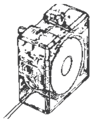

- 3 Roll Dispenser
- 3 Colors: blue, white, red; 50 feet (15.24 meters) of each color
- AWG 30 (0.25mm) Kynar® insulated wire
- Built-in plunger cuts wire to desired length
- Built-In stripper strips 1˝ (25.40mm) of insulation
- Refillable (for refills, see below)

Description	Digi-Key Part No.	Price Each
Tri-Color Dispenser	K227-ND	30.83
Replacement Rolls	K228-ND	18.20

Single Wire Dispenser

- With 50 feet (15.24 meter) roll of AWG 30 Kynar® wire-wrapping wire
- Built-in Plunger cuts wire to desired length
- Built-In Stripper strips 1˝ (2.54cm) of insulation
- Refillable (for refills, see below)

Description	Digi-Key Part No.	Price Each
Blue Wire	K223-ND◆	18.75
Yellow Wire	K224-ND◆	18.75
White Wire	K225-ND◆	18.75
Red Wire	K226-ND◆	18.75
Dispenser Replacement Rolls		
30AWG Blue 50 feet (15.24 meter) Roll	K229-ND◆	9.14
30AWG Yellow 50 feet (15.24 meter) Roll	K230-ND◆	9.14
30AWG White 50 feet (15.24 meter) Roll	K231-ND	9.12
30AWG Red 50 feet (15.24 meter) Roll	K232-ND	9.12

◆ ***RoHS Compliant***

Wire Wrap Wire

- 30AWG, Pre-Cut/Pre-Stripped — 50 Wires/Package
- 1˝ (2.54cm) Stripped Ends

Description	Digi-Key Part No.	Price Each
Blue Wire, 3˝ (7.62cm) Overall Length	B3-ND◆	7.91
Yellow Wire, 3˝ (7.62cm) Overall Length	Y3-ND◆	7.91
White Wire, 3˝ (7.62cm) Overall Length	W3-ND◆	7.91
Red Wire, 3˝ (7.62cm) Overall Length	R3-ND◆	7.91
Blue Wire, 4˝ (10.16cm) Overall Length	B4-ND	7.91
Yellow Wire, 4˝ (10.16cm) Overall Length	Y4-ND◆	7.91
Red Wire, 4" (10.16cm) Overall Length	R4-ND◆	7.91
White Wire, 4" (10.16cm) Overall Length	W4-ND◆	7.91
Blue Wire, 5˝ (12.70cm) Overall Length	B5-ND◆	9.12
Yellow Wire, 5˝ (12.70cm) Overall Length	Y5-ND◆	9.12
White Wire, 5˝ (12.70cm) Overall Length	W5-ND◆	9.12
Red Wire, 5˝ (12.70cm) Overall Length	R5-ND◆	9.12
Blue Wire, 7˝ (17.78cm) Overall Length	B7-ND◆	9.12
Yellow Wire, 7˝ (17.78cm) Overall Length	Y7-ND◆	9.12
White Wire, 7˝ (17.78cm) Overall Length	W7-ND◆	9.12
Red Wire, 7˝ (17.78cm) Overall Length	R7-ND◆	9.12

◆ ***RoHS Compliant***

Wire Stripper

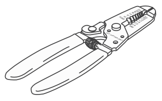

Designed to strip and cut the most commonly used stranded and single wire gauges 10 to 22 AWG. Includes a coil spring opening to reduce fatigue, wire looping, bending holes conveniently located, black oxide finish, locking mechanism, and cutting surfaces that are hardened, tempered and ground for superior performance. 6 3/4" long; 4.5 ounces.

K521-ND — ***RoHS Compliant***.. **$9.10**

Wire Cut and Strip Tools

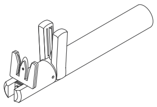

Easy and clean stripping of wires for wire wrapping, electronic and appliance applications. Strip length easily adjustable for your application. The hardened steel cutting blades and sturdy construction of the tool ensure long life. Biomechanically designed for maximum efficiency.

Easy to operate:

Place wire (up to 4) in stripping slot with ends extending beyond cutter blades, press tool and pull, wire is cut and stripped to proper "wire stripping" length.

Wire Size		Adjustable Strip-Off Length	Digi-Key Part No.	Price Each
AWG	mm	Inches (mm)		
26	0.40	15/16 ~ 111/16 (33.33 ~ 42.86)	K501-ND	50.81
30	0.25	7/8 ~ 11/8 (22.22 ~ 28.57)	K502-ND	50.81
22 ~ 26	0.64 ~ 0.40	—	K512-ND	52.50

Hobby Wrap Hand Tools

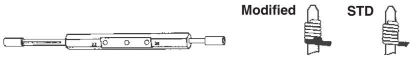

Wire-wrapping, stripping and unwrapping tool. For 30AWG on .025" (0.63mm) and 22-24AWG on .030" (0.76mm) and .045" (1.14mm) Square Post.

K104-ND	Regular Wrap (30AWG)	**$34.33**
K105-ND	Modified Wrap (30AWG)	**$34.35**
K107-ND	Regular Wrap (22-24AWG)	**$43.62**

Precision Hand Wrapping and Unwrapping Tools

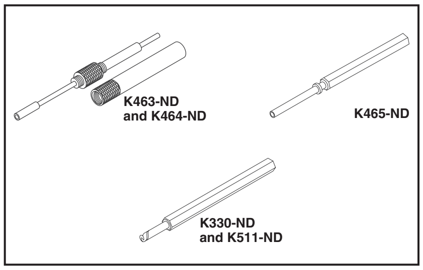

K463-ND	Combination Hand Wrap-Unwrap Tool (30AWG)	**$101.91**
K464-ND	Combination Hand Wrap-Unwrap Tool (22-24AWG)	**$88.53**
K465-ND	Hand Unwrap Tool (20-26AWG)	**$39.12**
K330-ND	Universal Wire Unwrap Hand Tool (24-32AWG)	**$30.42**
K511-ND	Unwrap Hand Tool (20-26AWG)	**$28.23**

Electrician Scissors

Features:

• Notched to strip 19 and 23 AWG wire • One blade is serrated • Scraper and file are on the back of the blade

Description	Digi-Key Part No.	Price Each	OK Industries Part No.
Electrician Scissors	K538-ND	9.58	ES-1964

OK Industries
Division of Jonard Industries Corp.

Tool Kits

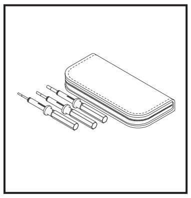

These tools service virtually all connectors conforming to Mil-C-26482, Mil-C-26500 with front release contacts made by such manufacturers as Amp, Amphenol, Bendix, Burndy, Cannon, Cinch, Continental, Elco, Flight, Pyle National and Deutsch.

K540-ND (contains 3 tools):

- Red: .040” (20mm) contact size
- Blue: .063” (16mm) contact size
- Yellow: .093” (12mm) contact size

Fig.	Description	Digi-Key Part No.	Price Each	OK Ind. Part No.
1	Extraction Tool Kit	K540-ND	148.60	KR-260

Pin Extractor

Features: • Plunger style pin extractor for pushing pins out from behind the connector blocks for contact sizes 16-20 • 3” (76.20) long

Description	Digi-Key Part No.	Price Each	OK Ind. Part No.
Pin Extractor	K541-ND	11.95	R-5926

BRAND 77 TOOLS™

ATM01-ND

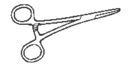

ATM05-ND

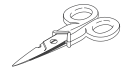

ATM08-ND

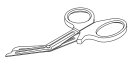

ATM03-ND

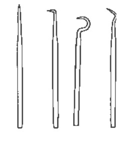

ATM04-ND

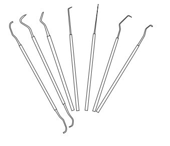

Hemoclamp/Hemostat

Professional grade hemo made of 410 A.I.S.I. stainless steel. Hand finished and polished. Hand serrated for extra gripping power. Has 3 locking positions.

ATM01-ND 5 1/2 inches **$4.95**

ATM06-ND 8 inches **$7.52**

Curved-Tip Hemoclamp/Hemostat

Professional grade hemo made of 410 A.I.S.I. stainless steel. Hand finished and polished. Hand serrated for extra gripping power. Has 3 locking positions.

ATM02-ND 5 1/2 inches.. **$4.95**

ATM07-ND 8 inches... **$7.52**

Compact Electrician’s Scissors

Stainless steel double notched blade with file on back. Notches are for stripping wire. Can be used for many telephone installation and electrical service applications. 5 1/2” overall length, cut length is 1 7/8”.

ATM05-ND... **$8.08**

Utility Scissors

All utility scissors are industrial strength stainless steel serrated blades, and have PVC handles. Will cut paper, wire, wood, plastic, leather etc.

ATM08-ND 7 1/2 inches.. **$5.97**

4-Piece Probe Set

Forged from 420 A.I.S.I. stainless steel. Set includes four probes and a plastic (vinyl) pouch.

ATM03-ND... **$7.88**

7-Piece Probe Set

Hardened, tempered stainless steel. Set includes seven probes and a plastic (vinyl) pouch.

ATM04-ND... **$15.70**

Swanstrom Tools USA

Cutters and Pliers

Traditional and Ergonomic Handles

Fig. 1

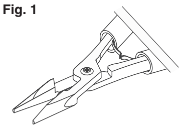

Fig. 2

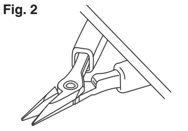

Fig. 3

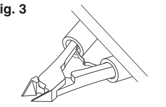

Fig. 4

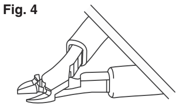

Fig. 5

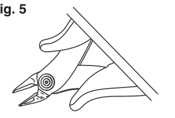

Fig. 6

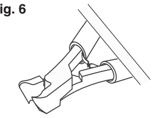

Traditional Handle

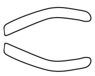

- High carbon, alloy forged American steel for long tool life • Alloy steel rivets for smooth action • Machined and lapped joints • Polished finish for cleanliness and rust prevention • Double stainless steel leaf spring • Soft touch static dissipative foam grips to minimize ESD and CTS

Fig.	Description	Digi-Key Part No.	Price Each	Swanstrom Part No.
	Long Nose Pliers, Serrated Jaw, Shear Cut			
1	Size 6 (153mm)	232-1012-ND	32.14	351
	Slim Long Nose Pliers, Smooth Jaw			
2	Size 5 (136mm)	232-1017-ND	23.58	324
	Slim Long Nose Pliers, Serrated Jaw			
2	Size 4 (136mm)	232-1013-ND	23.58	325
	Size 6 (164mm), HD	232-1019-ND	25.70	631
	Thin Nosed Pliers, Serrated Jaw			
2	Size 5 (127mm)	232-1028-ND	20.34	LX54
	Submini, Needle Nose Pliers, Serrated Jaw			
2	Size 4 (102mm)	232-1029-ND	19.80	LX4
	Submini, Needle Nose Pliers, Smooth Jaw			
2	Size 4 (102mm)	232-1030-ND	20.98	LX4G
	Tapered Cutters, Flush Edge			
3	Size 4 (122mm)	232-1010-ND	26.78	415
	Size 5 (125mm)	232-1016-ND	28.92	515
	Oval Cutters, Flush Edge			
4	Size 4 (102mm)	232-1027-ND	21.32	MX54-9
	Size 4 (122mm)	232-1009-ND	26.78	411
	Size 5 (125mm)	232-1015-ND	28.92	511
	Size 6 (137mm)	232-1018-ND	30.00	611
	Oval Cutters, Relieved Edge			
4	Size 4 (102mm)	232-1026-ND	21.42	MX54-3
	Stamped Cutters, Shear Cut			
5	Size 5 (127mm)	232-1025-ND	5.70	STUSA-170
	60° Oval Nipper, Flush Edge			
6	Size 4 (125mm)	232-1011-ND	37.48	491

Super Ergonomic Handle

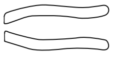

- High chromium, alloy forged steel for maximum tool life • Electronic induction hardening for maximum cutter life • Hard alloy self-lubricating bearings for perfect jaw alignment • Precision machined and lapped joints • Double stainless steel leaf springs • Soft touch static dissipative foam grips to minimize ESD and CTS

Fig.	Description	Digi-Key Part No.	Price Each	Swanstrom Part No.
	Slim Long Nose Pliers, Serrated Jaw			
2	Size 4 (158mm)	232-1008-ND	34.28	S325E
	Long Nose Pliers, Smooth Jaw			
2	Size 4 (156mm)	232-1035-ND	36.00	S220E
	Size 5 (174mm)	232-1031-ND	38.24	S320E
	Long Nose Pliers, Serrated Jaw			
2	Size 4 (156mm)	232-1032-ND	36.00	S221E
	Tapered Cutters, Flush Edge			
3	Size 4 (144mm)	232-1001-ND	57.88	S415E
	Size 5 (147mm)	232-1007-ND	57.88	S515E
	Oval Cutters, Super Flush Edge			
4	Size 5 (147mm)	232-1033-ND	60.74	S512E
	Size 6 (161mm)	232-1034-ND	63.00	S612E
	60° Oval Nipper, Super Flush Edge			
6	Size 4 (146mm)	232-1002-ND	64.28	S491E

Wiss®

Utility Knife

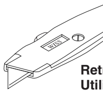

Retractable Utility Knife

Description	Digi-Key Part No.	Price Each
Retractable Utility Knife with 3 Blades	WK8V-ND	4.66

EREM® Tweezers

Straight Tapered Tip Tweezers

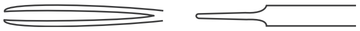

EROP • 4.5” (114.30mm) • Straight, round, tapered tip tweezers • Provide larger, flat gripping surface for handling a variety of small components

EROP2ASA-ND **$3.30**

Straight Precision Tip Tweezers

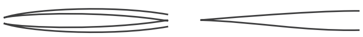

EROP • 4.25” (107.95mm) • Straight Point Tweezers • For general use

EROP3CSA-ND **$3.30**

Curved Precision Tip Tweezers

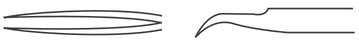

EROP •4.5” (114.30mm) • Curved precision tip tweezers improve visibility when used under magnification

EROP7SA-ND **$3.30**

Straight Fine Tip Tweezers

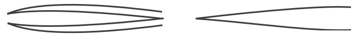

EROP • 5” (127.00mm) • General use straight point tweezers with hardened tips

EROPAASA-ND **$3.30**

Angled Cutting Tip Tweezers

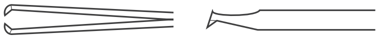

EREM • 4.5” (114.30mm) • Angled cutting tweezers • Tempered carbon steel, hard but low rust resistance

15AGS-ND **$26.00**

Straight Soft Carbon Tip Tweezers

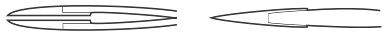

EREM • 5” (127.00mm) • 304/305 stainless steel • Soft carbon tipped handling tweezers • Soft tips minimize scratching or nicking of fragile wires and parts • Temperature range is 250°F ~ 300°F (121°C ~ 149°C) Nonmagnetic and non-corrosive • Resistant to hydrochloric and nitric acids

249SA-ND... **$26.63**

Diagonal Cutters

N Series - Magic Springs

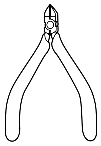

- Superior to Leaf Springs • Invisible, internal EREM-Magic springs provide uniform, constant tension and ultimate performance • Linear closing and opening force • High Precision Inter-Lock Screw Joint System: Surfaces between the two halves are machine faced to provide smooth, wobble-free operation with no blade overlap

Description	Digi-Key Part No.	Price Each	EREM Part No.
“N” Series			
4” (101.6mm), Oval, Semi-Flush	612N-ND	45.00	612N
4” (101.6mm), Oval, Full-Flush	622N-ND	45.00	622N
4.75” (120.7mm), Large Oval, Semi-Flush	812N-ND	57.00	812N
4.75” (120.7mm), Large Oval, Full-Flush	822N-ND	57.00	822N
5” (127.0mm), Oval, Semi-Flush	512N-ND	45.00	512N
5” (127.0mm), Oval, Full-Flush	522N-ND	45.00	522N

EREM®

Cutters and Pliers

Features:

- Co-molded ergo-grip for maximum comfort
- Made of extruded 100% machined Eremadium® tool steel for durability
- Patent internal Magic® spring maintains constant fatigue-free operation

Fig. 1

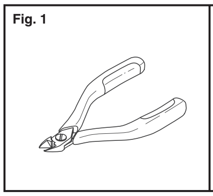

Fig. 2

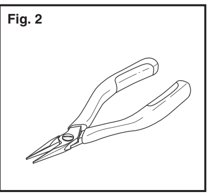

Fig.	Description	Digi-Key Part No.	Price Each	Erem Part No.
1	5" Oval Full Flush Cutter	2422E-ND	53.00	2422E
	5" Oval Semi-Flush Cutter	2412E-ND	53.00	2412E
	5" Oval Super Full Cutter	2432E-ND	53.00	2432E
2	5" Smooth Needle Nose Pliers	2411P-ND	50.00	2411P
	5" Serrated Needle Nose Pliers	2411PD-ND	51.00	2411PD
	5" Smooth Flat Nose Pliers	2442P-ND	51.00	2442P

Xcelite®

4-in-1 Screwdriver

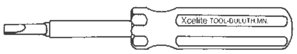

- 4 Bits in one compact tool
- Changes in seconds: pull out, reverse, snap back
- 2 Phillips bits and 2 slotted bits are always ready
- Alloy steel, heat treated for maximum strength, precision ground and polished
- Large, 6-spline, easy-to-grip red Tenite handle

FSD-1V-ND **$10.52**

Screwdrivers

- **5 Piece Phillips Set Includes:** Point #0, 1, 2, 3 and Short #2, Packed in Pouch
- **5 Piece Slotted Set Includes:** 1/8", 5/32", 3/16", 1/4" and 5/16" Packed in Pouch
- **6 Piece Set Includes:** 4 Round Blade for Slotted Screws & 2 Phillips Types, Slotted: 1/8", 3/16", 1/4" and 5/16", Phillips: 1 & 2 Pt. Size, Packed In Pouch
- **7 Piece PRO-SERIES Ergonomic Set Includes:** 5 Slotted Screws & 2 Phillips Types, Slotted: 1/8", 5/32", 3/16", 1/4" and 5/16" Phillips: 1 and 2 Pt. Size, Packed In Box

Description	Digi-Key Part No.	Price Each	Xcelite Part No.
5 Pc. Phillips Screwdriver Set	SDX-22-ND	25.25	SDX-22
5 Pc. Slotted Screwdriver Set.......	SDR-11-ND	23.21	SDR-11
6 Pc. Screwdriver Set..............	SRX-33-ND	31.47	SRX-33
7 Pc. PRO-SERIES Ergonomic Set....................	XPE700-ND	35.75	XPE700

99-XTD7 Torx® Screwdriver Blade Kit

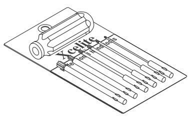

- Interchangeable blades
- Contains 6 blades (#10, 15, 20, 25, 27, 30), 4" (102.00mm) long and regular 99-1 handle
- 4" (102.00mm) approximate working length

99XTD7-ND **$29.75**

Screwdriver and Nutdriver Sets - Inch Sizes

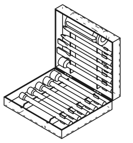

See-through stand-up plastic cases.

PS-120 Color-coded handles. Comes with black "piggyback" torque amplifier handle.

Regular Nutdrivers: 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8"

Description	Digi-Key Part No.	Price Each	Xcelite Part No.
11 Piece Nutdriver Set............	PS120-ND	34.67	PS120

Precision Electronic Screwdriver Sets

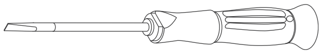

- Chrome-molybdenum vanadium steel blades
- Fast-turning swivel caps with cavity for precise centering
- Precision tolerance black tips
- No-roll handle design.

XP600-ND Includes:

1.5mm x 60mm Slotted Screwdriver, 2.0mm x 60mm Slotted Screwdriver, 2.5mm x 60mm Slotted Screwdriver, 3.0mm x 60mm Slotted Screwdriver, #00 Point Size Phillips Screwdriver, #0 Point Size Phillips Screwdriver.

XPTX600-ND Includes:

#5pt. Standard Torx Screwdriver, #6pt. Standard Torx Screwdriver, #7pt. Tamper-proof Torx Screwdriver, #8pt. Tamper-proof Torx Screwdriver, #10pt. Tamper-proof Torx Screwdriver, #15pt. Tamper-proof Torx Screwdriver

Description	Digi-Key Part No.	Price Each	Xcelite Part No.
6 Pc. Screwdriver Set	XP600-ND	22.86	XP600
6 Pc. Torx Screwdriver Set....	XPTX600-ND	26.88	XPTX600

Micro Series Shearcutters

General Purpose

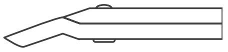

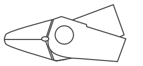

- Low profile
- Superior blade by-pass shear cutting action
- Better cuts with half the effort
- Greatly reduced mechanical shock delivered to the work
- 170M, 175M feature red grips
- 170D, 175D feature static-dissipative black grips
- 175M, 175D feature safety clips • 170D, 175D especially hardened and plated

170M-ND **$5.54**
170DCI-ND **$6.14**
175M-ND **$6.78**
175DCI-ND **$7.46**

Heavy Duty

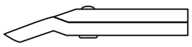

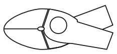

- Heavy-duty for IC pins, cables and harnesses
- Maximum durability
- Maximum operator safety
- 1178M features red grips
- 1178D features static-dissipative black grips • 1178D especially hardened and plated

1178M-ND **$9.99**
1178D-ND **$12.03**

Electronics Cutters and Pliers

All pliers are standard with coil spring and ESD safe cushion grip handles.

- All pliers are manufactured to the highest professional quality
- Cutting edges are electronically hardened
- Machining is to close tolerances, with individual finishing and testing for exact fit of jaws
- All have polished heads with gun metal handles

Full Flushed Relieved Tapered Cutter

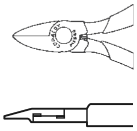

- Diagonal flush cutter
- Ground down on back side for reaching into confined places
- Size: 4" (102.00mm)

MS543J-ND **$16.34**

Semi-Flush Diagonal Cutter

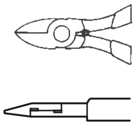

- Diagonal cutter with flush ground cutting edges
- Size: 4" (102.00mm)

MS54-ND **$14.36**

Angled Flush Cutter

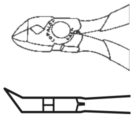

- Cutting blade is flush ground and angled at 29°
- Cutting plier is designed to give long wear for cutting soft wire
- Size: 4" (102.00mm)

GA54J-ND **$25.68**

Long Nose Side Cutter

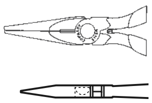

- Similar to long nose pliers but with 7/32" (5.56mm) cutter near joint
- Size: 5" (127.00mm)

SN54-ND **$17.64**

Long Nose Pliers

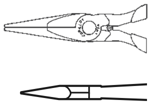

- Miniature very fine point for delicate work in very confined areas
- Has scored jaws
- Size: 4" (102.00mm)

L4-ND **$14.31**

Curved Long Nose Pliers

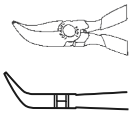

- For reaching into confined places
- Nose bent approximately 60°
- Smooth jaws
- Size: 5" (127.00mm)

CN54G-ND **$17.64**

Long Nose Pliers

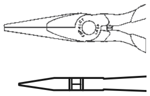

- Has finely scored jaws
- Size: 5" (127.00mm)

LN54CI-ND **$15.71**

Needle Nose Pliers

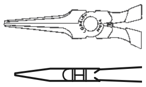

- Has scoring on jaws
- Size: 5" (127.00mm)

NN542-ND **$18.62**

Duck Bill Pliers

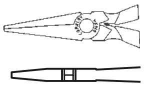

- Flat nose duck bill pliers with smooth jaws
- Size: 5" (127.00mm)

DN54G-ND **$14.36**

Reverse Action Tweezers

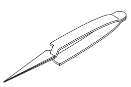

- Self closing, smooth, sharp points for holding work
- Size: 4 1/2" (115mm)

XHT412-ND **$5.36**

Reversible Ratcheting Combination Wrenches

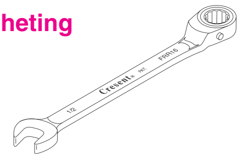

Features:

- Mirror finished chrome vanadium steel construction
- Narrow cross-section design on box and open ends allows access to tighter work spaces
- Reverses at the push of a button
- Ratcheting end is offset 15° • Ratchet feature turns fasteners with just a 5° swing

Description	Digi-Key Part No.	Price Each	Crescent Part No.
4 Pc. SAE (3/8", 7/16", 1/2", 9/16")	FRR4-ND	54.12	FRR4
7 Pc. SAE (5/16", 3/8", 7/16", 1/2", 9/16", 5/8" and 3/4")	FRR7-ND	105.89	FRR7
4 Pc. Metric (10, 12, 13 and 15mm)	FRRM4-ND	55.89	FRRM4
7 Pc. Metric (8, 10, 12, 13, 14, 15 and 18mm)	FRRM7-ND	106.36	FRRM7

Pliers and Wrenches

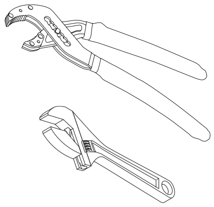

Features:

- Laminated and riveted "ply" construction
- Box-joint design
- Textured air-cushioned grips
- Multiple positions

Wrenches

- Adjustable • Chrome finish

Description	Digi-Key Part No.	Price Each	Crescent Part No.
8" Dura-Plyers™	LB8-ND	9.61	LB8
10" Dura-Plyers™	LB10-ND	10.81	LB10
6" Crescent Wrench.......	AC16V-ND	20.87	AC16V
8" Crescent Wrench.......	AC18V-ND	21.68	AC18V
10" Crescent Wrench	AC110V-ND	27.71	AC110V

Ratcheting Screwdriver Set

SDMBR2-ND Includes:

- **7 Fractional Power Nutdrivers:** 3/16", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16"
- **7 Metric Power Nutdrivers:** 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm
- **18 Screwdriver Bits:** #1, #2, #3. Phillips®, 1/4", 5/32", 3/16"
- **Slotted:** #1, #2, #3 Square Recess
- **Stainless Steel Bit Holder w/ 1/4" Hex Drive:** TX6, TX8, TX10, TX15, TX20, TX25
- **Torx®:** 1/4", 5/32", 3/16" Hex.

Description	Digi-Key Part No.	Price Each	Crescent Part No.
34 Piece.	SDMBR2-ND	35.18	SDMBR2

Wire Stripper and Replacement Blades

Features:

- Strips wires from 32AWG to 10AWG without adjustment.
- Strips a wide range of insulation types, PVC to PTFE with just one tool.
- The ergonomic design features a sculpted shape, soft grip main handle.
- Low friction moving handle optimized grip span, and angled head.

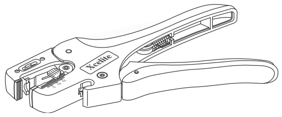

SAS3210-ND	Wire Stripper	**$66.87**
SAS3210RB-ND	Replacement Blade	**$20.39**
SAS3210TRB-ND	Teflon® Replacement Blade...............	**$28.53**

148-Piece Professional Tool Set

This set contains all the tools needed for most industrial applications, including 1/4", 3/8", and 1/2" quick-release ratcheting drives, with a wide selection of standard and deep sockets in the most common SAE and metric sizes.

CTK148MP-ND **$122.87**

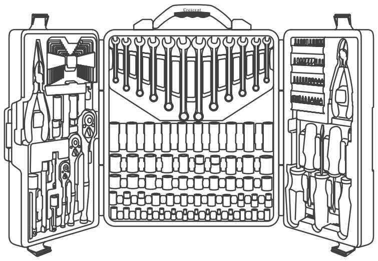

Presses, Cutter and Plates

Fig. 1 – 502 Precision PanaPress

A 501 Standard Pana-Press with four nylon gibs for precision directional control of the vertical ram.

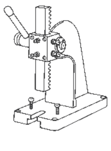

Fig. 2 – 506 Retrofit Kit

Converts a 502 Precision PanaPress into the 505 IDC Bench Assembly Press. The kit includes the assembly base, standard platen, modified ram, guide arm, and an allen wrench.

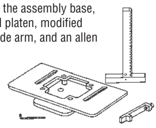

Fig. 3

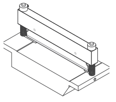

Fig. 4

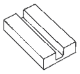

Fig. 5

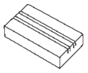

Fig. 6

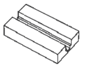

Fig. 7

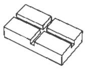

Fig.	Description	Digi-Key Part No.	Price Each
1	Hand Press Bench Mount	502PV-ND	119.99
2	Hand Press IDC Conversion Kit	506PV-ND	59.99
3	Flat Ribbon Cable Cutter - Model 507	507PV-ND	81.58
4	Standard IDC Card Edge Connector Base Plate	511PV-ND	29.99
5	Standard IDC Dip Plugs Base Plate	512PV-ND	29.99
6	Standard IDC D-Sub Connector Base Plate	513PV-ND†	29.99
7	Standard Female IDC Socket Base Plate	510PV-ND	29.99

† Do not use with CW Industries all plastic D-sub connectors

Vises and Accessories

Fig. 1

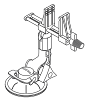

Fig. 2

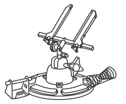

Fig. 3

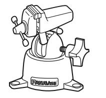

Fig. 4

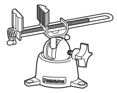

Fig. 5

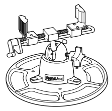

Fig. 6

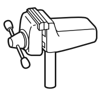

Fig. 7

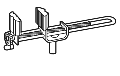

Fig. 8

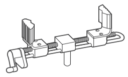

Fig. 9

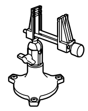

Fig. 10

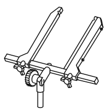

Fig. 11

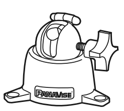

Fig. 12

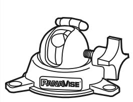

Fig. 13

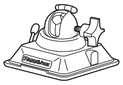

Fig. 14

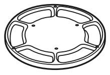

Fig. 15

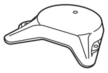

Fig. 16

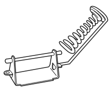

Fig. 17

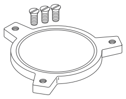

Fig. 18

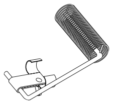

Must be used with Fig. 7 or Fig. 8 (sold separately).

Fig. 19

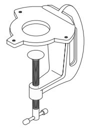

Fig.	Description	Digi-Key Part No.	Price Each
1	Portable Vacuum Base Precision Vise	209PV-ND	32.99
2	Deluxe Electronic Work Center - Solder wire and soldering station not included	324PV-ND	81.99
3	Standard Station (303 head/300 base)	301PV-ND	44.99
4	Wide Opening Station (366 head/300 base)	396PV-ND	53.99
5	Wide Opening-Self Centering Work Station (376 head/300 base/312 tray base mount)	350PV-ND	83.99
6	Standard Head - 2 1/2" (63.50mm) wide, opens to 2 1/4" (57.15mm)	303PV-ND	24.99
7	Wide Opening Head - 1 3/4" (44.45mm) wide, opens to 6" (152.40mm)	366PV-ND	33.99
8	Wide Opening-Self Centering Head - 1 3/4" (44.45mm) wide, opens to 9" (228.6mm)	376PV-ND	45.99
9	Junior Universal Vise	201PV-ND	23.99
10	Circuit-Board Holder - 6" (152.40mm) arms, extends to 12" (304.80mm) wide	315PV-ND	32.99
11	Standard Base 3 3/4" (95.25mm) high	300PV-ND	20.99
12	Low-Profile Base - Only 2 1/2" (63.50mm) high	305PV-ND	20.99
13	Vacuum Base	380PV-ND	33.99
14	Tray Base Mount - 8 1/2" (215.90mm) diameter, base mount only	312PV-ND	19.99
15	Weighted Base Mount	308PV-ND	29.99
16	Solder Station - Solder iron holder, wire holder & 2 slit sponges, can be used for left or right hand use	371PV-ND	11.99
17	Magnetic Base - Adapts to 201, 300 & 305 bases	335PV-ND	18.99
18	Universal Wire Holder for 366 and 376 jaws	358PV-ND	21.99
19	Bench Clamp Base Mount - Model 311	311PV-ND	39.99

Quality Tools

ESD Cutters and Safe Pliers

- Two component handle with non-slip soft grip surface, protects the hand and reduces manual effort and user fatigue
- Box joint for longer tool life and endurance, mirror polished finish
- Welded double leaf spring
- Hardened and annealed high-carbon tool steel, induction hardened cutting edges

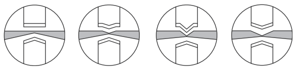

Side Cutters

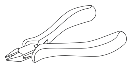

Small Tapered Head with Hollow Ground Back, Flush, 115mm
431-1041-ND (32704) **$46.18**
Small Tapered Head, Flush, 115mm
431-1039-ND (32705) **$44.60**
Slim Oval Head, Flush, 115mm
431-1044-ND (32712) **$45.05**
Slim Oval Head, Full–Flush, 115mm
431-1035-ND (32714) **$50.13**
Wide Oval Head with Wire Trapping, Full–Flush, 115mm
431-1038-ND (32721) **$46.18**
NEW! Wide Tapered Head, Flush ESD, 115mm
431-1057-ND (32708) **$45.05**
NEW! Wide Tapered Head, Full–Flush ESD, 115mm
431-1058-ND (32710) **$49.54**

Oblique Cutters

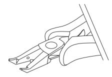

Angled,29°, Full Flush, 115mm
431-1030-ND (32724) **$56.31**
Front, Very Small Head, 40°, Flush, 110mm
431-1045-ND (32728) **$49.54**

End Cutters

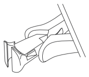

Extra Slim, Flush, 110mm
431-1040-ND (32732) **$50.71**
Wide Head, Flush, 115mm
431-1043-ND (32734) **$50.71**

Pliers

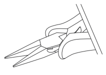 Short Snipe Nose (Chain Nose) Straight, Serrated Jaws, 120mm **431-1031-ND (32742)** **$40.53**	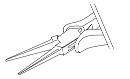 Long Needle Nose, Straight, Serrated Jaws, 145mm **431-1042-ND (32746)** **$46.18**
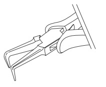 Needle Nose, Bent 90°, Smooth Jaws, 145mm **431-1032-ND (32748)** **$46.18**	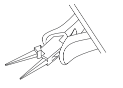 Short Round Nose, Smooth Jaws, 120mm **431-1033-ND (32750)** **$40.53**
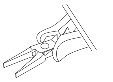 Short Flat Nose, Smooth Jaws, 120mm **431-1034-ND (32752)** **$40.53**	

Cable Cutter 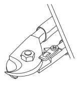 Soft Vinyl Grip, Lay-On Joint, Sickle Jaw,170mm **431-1046-ND (32641)** **$41.38**	**Diagonal Cutter** 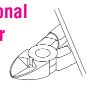 Soft Vinyl Grip, Lap Joint, 140mm **431-1052-ND (32638)** **$23.53**

L – Key Set

9 – Piece Metric Ball End Long Hex • Includes: 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, and 10.0 mm
431-1054-ND (36990) **$14.87**
13 – Piece Inch Ball End Long Hex • Includes: 0.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8”
431-1055-ND (36991) **$17.66**

ESD Safe Tweezers

Conductive ESD coating is hypo-allergenic. Resistance is 10^4 to $10^6\Omega$. All tweezers are made from premium stainless steel and are anti-magnetic and acid resistant.

Style AA SA IND

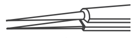

130mm long.
Universal fine point tweezers with non-glare finish.
431-1020-ND (44501) **$15.31**

Style SS SA IND

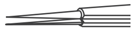

135mm long.
Long narrow body, low force with non-glare finish.
431-1021-ND (44503) **$19.51**

Style 3 SA IND

120mm long. Fine tip, round body assembly style with non-glare finish.
431-1022-ND (44506) **$19.51**

Style 7a SA IND

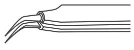

120mm long.
Curved with extra fine round tip and non-glare finish.
431-1023-ND (44510) **$25.19**

Style 22 SA IND

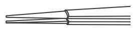

150mm long. Narrow rounded tip and guide pin, serrated and non-glare finish.
431-1024-ND (44518) **$20.24**

Style PSF SA IND

125mm long.
Long rounded to 1mm blunt tip, non-glare finish.
431-1025-ND (44523) **$18.73**

Style 7abb SA IND

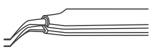

120mm long.
Curved, extra fine with 3mm extended tip, non-glare finish.
431-1026-ND (44525) **$30.14**

Style 8b SA IND

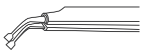

120mm long.
Micro tip 30° bend, 0.5mm slot, 1mm flat, non-glare finish.
431-1027-ND (44529) **$26.70**

Style 1 SA IND

120mm long.
General purpose fine point with non-glare finish.
431-1028-ND (44531) **$20.12**

Style 00 SA IND

120mm long.
Universal fine point tweezers with non-glare finish.
431-1029-ND (44532) **$25.53**

Compact Tool and Small Parts Magnetizer/ Demagnetizer

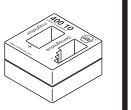

- Instantly magnetize or demagnetize steel tools and small parts
- Works with items over 1.3” in length and 1/8” or 3mm diameter
- Uses powerful C8 permanent industrial ceramic magnets
- No batteries or electrical required

431-1056-ND (40010) **$5.98**

ESD Safe Fixed Handle Precision Screwdriver Sets

- With finger tip control cap

SLOTTED: 1.5, 2.0, 2.5, 3.5
PHILLIPS: 00, 0, 1

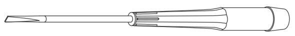

Slotted and Phillips Precision Technicians Set

Blades are CVM hardened tool steel, satin chrome finish.
431-1000-ND (27390) **$35.34**

TORX Precision Technicians Set

Blades are CVM hardened tool steel, satin chrome finish. Includes Torx sizes: T4, T5, T6, T7, T8, T9, T10.
431-1001-ND (27890) **$42.89**

ESD Safe Field Service Kit

(DRAWINGS ARE NOT TO SCALE)

Torx: T6, T7, T8, T9, T10, T15
Slotted: 2.0, 3.0, 4.0
Phillips: 00, 0, 1

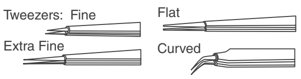

ESD Slotted, Phillips and TORX interchangeable blades with ESD safe tweezers. Packed in rugged canvas storage pouch.
431-1002-ND (44590) **$124.98**

ESD Safe Interchangeable Precision Screwdriver Sets

- Adjustable Blade Lengths – .75” to 3.75”
- Anti-Static Conductive Handle

(DRAWINGS ARE NOT TO SCALE)

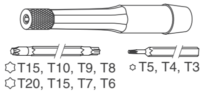

Slotted and Phillips Interchangeable Blade Precision Technicians Set

Blades; CVM hardened tool steel, satin chrome finish with molded indexed storage box. Includes: Slotted - 1.5, 2.0, 3.0, 3.5mm; Phillips: #000, #00, #0, #1.
431-1003-ND (26996) **$36.63**

Slotted, Phillips and TORX Interchangeable Blade Precision Technicians Set

Includes: Slotted - 1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm; Phillips: #000, #00, #0, #1, TORX: T6, 7, 8, 9, 10, T15.
431-1004-ND (26997) **$60.19**

TORX Interchangeable Blade Precision Technicians Set

Blades CVM hardened tool steel. Storage box. Includes TORX Sizes: - T3, T4, T5, T6 + 8, T7 + 9, T10 + 15, T15 + 20.
431-1005-ND (26987) **$44.32**

ESD Safe Chip-Lifter

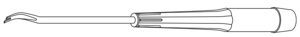

Split tip is perfect for reaching around pins and lifting chips and other components from sockets or from desoldered boards. Handle is conductive anti-static.
431-1016-ND (27920) **$7.10**

Driver Sets

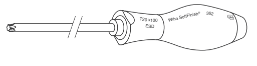

6 Piece ESD Safe Slotted and Phillips Drivers
Round blade, high alloy CVM hardened steel, chrome plated. Dissipative SoftFinish® cushy grip handle. Slotted: 3, 4, 5.5 Phillips: 0, 1, 2
431-1048-ND (30292) **$42.30**

6 Piece ESD Safe Torx® Screwdrivers
Round blade, high alloy CVM hardened steel, chrome plated. Tip Sizes: T6, T8, T9, T10, T15, T20
431-1050-ND (36289) **$41.22**

PHILLIPS: #00, #0, #1 SLOTTED: 1.5, 2.0, 3.0, 4.0
TORX: T6, T7, T8, T9, T10, T15
HEX (IN.): .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32

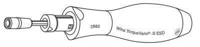

ESD Safe Adjustable TorqueVario-S Bit Set
24 piece. Ergonomic multi-component handle. Includes 21 Micro Bits, Micro Bit holder, torque adjustment tool, steel storage box. With certificate of calibration. Adjustable from 7.5 to 20 inch pounds.
431-1047-ND (28592) **$187.96**

Safety Insulated Screwdrivers

SLOTTED: 3.5 x 100, 4.5 x 125, 6.5 x 150
PHILLIPS: #1 x 80, #2 x 100, #3 x 150

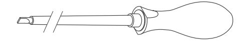

6 piece insulated screwdriver set. Tools certified to 1000 volts. Meets VDE 0680-2, IEC 900 and ASTM -F1505. Specifications for insulated tools. Blades of CVM hardened tool steel. Ergonomic molded-on soft grips.
431-1018-ND (32092) **$43.94**

Standard Precision Technicians Tool Sets

- Fingertip control cap
- Narrow tapered handle

SLOTTED: 1.5, 2.0, 2.5, 3.0
PHILLIPS: 00, 0, 1

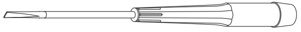

7 piece Slotted and Phillips Standard Precision Technicians Set

Blades of CVM hardened tool steel, satin chrome finish. Molded-on handles proportioned to blade size.
431-1006-ND (26190) **$26.26**

7 piece Slotted and Phillips Precision Extra Long Blade Set

Slotted - 2.5 x 50, 2.5 x 100mm, 3.0 x 100, 3.0 x 150mm, 4.0 x 100, 4.0 x 150mm. Phillips: #0 x 75mm.
431-1007-ND (26092) **$28.63**

8 piece Precision Inch Size Hex Driver Set

Tip sizes: .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8”.
431-1008-ND (26391) **$28.36**

7 piece Precision Metric Size Hex Driver Set

Tip sizes: .7, .9, 1.3, 1.5, 2.0, 2.5, 3.0mm.
431-1009-ND (26390) **$26.22**

8 piece Precision Inch Size Nut Driver Set

Sizes: 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4”.
431-1011-ND (26591) **$39.90**

8 piece Precision Metric Size Nut Driver Set

Sizes: 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0mm.
431-1010-ND (26590) **$41.06**

Master Technicians Bench Top Set

50 precision drivers. **Slotted:** .08, 1.0, 1.2, 1.5, 1.8*, 2.0, 2.5, 3.0, 3.5, 4.0. **Phillips:** #000, #00, #0, #1; **Torx:** T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T15‡, T20‡ **Metric Hex:** 1.5, 2.0, 2.5, 3.0, 4.0‡ **Inch Hex:** .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32 **Metric Nut Drivers:** 1.5, 1.8* 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5. Chip lifter.

431-1053-ND (92190) **$226.78**
431-1051-ND (92092) ESD Safe **$303.39**

* Available only in 431-1053-ND Set
‡ Available only in 431-1051-ND Set

Security Bit Set

Tamper Resistant Torx: TR8, TR10, TR15, TR20, TR25, TR27, TR30, TR40
Tamper Resistant Hex: 5/64, 3/32, 7/64,1/8, 9/64, 5/32
Slotted: 6.8, 8.0
Phillips: 1, 2
Pozidriv: 0, 1, 2, 3
Spanner: 4, 6, 8, 10
Triwing: 1, 2, 3, 4
Square: 1, 2, 3
Torq: 6, 8, 10

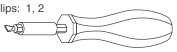

39 piece set in molded storage box with hard-to-find security bit sizes. Includes: handle, 1/4” magnetic power tool adapter, and 1/4 socket bit holder.
431-1013-ND (71990) **$72.14**

MicroBit Set

TORX: T3, T4, T5,T6, T7, T8, T9, T10, T15
HEX: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32
PHILLIPS: 000, 00, 0, 1
SLOTTED: 1.5, 2.0, 3.0, 4.0

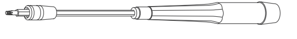

ESD handle. 27 piece set with molded storage box extension, ESD handle and assorted MicroBits.
431-1012-ND (75992) **$53.60**

6 Piece Ergonomic Grip Driver Set with Two Components

SLOTTED: 3.0, 4.5, 5.5, 6.5
PHILLIPS: #1, #2

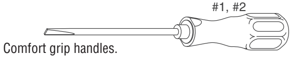

Comfort grip handles.
Hardened tool steel blades.
431-1019-ND (46094) **$27.31**

TORX Insert Bit Set

(DRAWINGS ARE NOT TO SCALE)

6 piece Small Torx insert bit set. Bits of CVM hardened tool steel. Smallest hard-to-find sizes on standard 1/4" Hex Drive. 25mm (1") length.
431-1017-ND (71570) **$10.93**

Tuning Tools, Tweezers, Knives and Blades

Fig.	Description	Digi-Key Part No.	Price Each	Aven Part No.
1	1.7 mm Phillips Blade	243-1011-ND	8.70	13220
2	1.3 mm Flat Blade	243-1012-ND	8.70	13221
3	2.6 mm Flat Blade	243-1013-ND	8.70	13222
4	4-in-1 Reversible, (#0 and #1 Phillips, .9 mm and 1.8 mm Flat Blade)	243-1014-ND	18.70	13230
5	Utility Knife with Rubber Grip	243-1005-ND	4.10	44011
6	3-Piece Knife Set (Light, Medium and Heavy Duty, 10 Asst. Blades)	243-1010-ND	16.00	44101
7	No. 2 Medium to Heavy Blade, 5 Pc.	243-1007-ND	1.80	44201
8	No. 11 Precision Blade, Stainless Steel, 5 Pc.	243-1015-ND	1.95	44205S
9	No. 24 Deburring Blade, 5 Pc.	243-1009-ND	1.85	44225

Ceramic blade alignment tools for zero electromagnetic induction

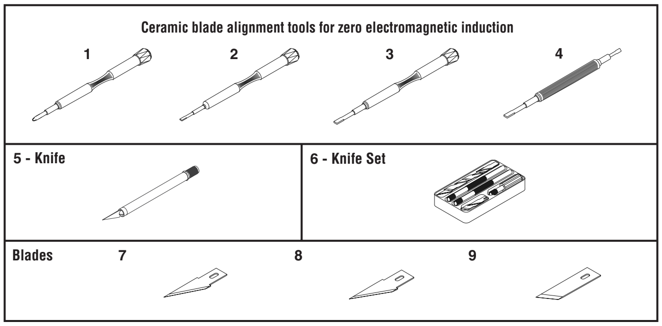

Scalpel Handles and Blades

These high precision knives are designed for intricate detailed work. Ideal for precision cutting in microcircuitry, photography, art and more.
Blade Material: 0.015" thick Stainless Steel, Non-sterile.
Use the #31 Stainless Steel metal handles for blades #10, #11, #12 and #15.
Use the #33 Stainless Steel metal handle for blade #23.

Fig.	Description	Digi-Key Part No.	Price Each	Aven Part No.
	Stainless Steel Metal Handle			
1	Technik #31	243-1031-ND	4.25	44031
2	Technik #33	243-1032-ND	4.25	44033
	Scalpel Blade (2 Per Tube)			
3	Technik #10	243-1033-ND	1.80	44041
4	Technik #11	243-1034-ND	1.80	44042
5	Technik #12	243-1035-ND	1.80	44043
6	Technik #15	243-1036-ND	1.80	44044
7	Technik #23	243-1037-ND	1.80	44045

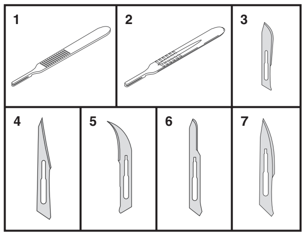

NEW! Smart Tweezers

Features: • Fully Automatic Inductance, Capacitance and Resistance Measurements • DC/AC Voltage Measurements • Diode Polarity Test • Display of Active and Reactive Impedance Components • Analog Bar Graph • Automatic Selection of the Best Range

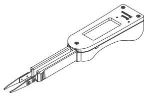

243-1058-ND	(18900) Tweezer with Straight Tip	**$357.14**
243-1059-ND	(18901) Tweezer with 1 Straight Tip and 1 Bent Tip	**$392.86**
243-1060-ND	(18902) Replacement Tip - Straight	**$58.33**
243-1061-ND	(18903) Replacement Tip - Bent	**$58.33**

Alignment Tool Kits

Includes all the trimmer/potentiometer and RF coil adjusting tools available.

Description	Digi-Key Part No.	Price Each	Aven Part No.
9-piece Anti-Static Alignment Tool Kit	243-1016-ND	8.43	13016
25-piece Master Alignment Tool Kit	243-1017-ND	35.60	13500

PLCC Extractor

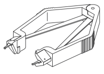

Features: • Spring assisted clip carrier extraction tool • Specially designed for the safe removal of PLCCs from sockets without damage to components

Description	Digi-Key Part No.	Price Each	Aven Part No.
PLCC Extractor	243-1028-ND	7.91	32.361

EZ-PIK Tweezers

Aven EZ-PIK Color Coded Tweezers will be the industry standard for easy identification of different tweezer types.

Each different style is given a unique color for easy identification.

All tweezers are Anti-Acid and Anti-Magnetic Stainless Steel.

The set of six come in a stylish leather type pouch.

Pattern AA-SA Yellow
5" (130mm) long.
Precise tip, fine finish for general assembly.
243-1053-ND (18013EZ) **$3.95**

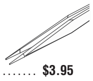

Pattern 00-SA Red
4 3/4" (120mm) long.
Flat edge, heavy duty strong blades, tapering to regular strong points.
243-1052-ND (18032EZ) **$3.95**

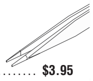

Pattern 2A-SA Black
4 3/4" (120mm) long.
Flat tips. Provides a large flat gripping surface
243-1050-ND (18049EZ) **$3.95**

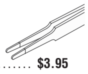

Pattern 3C-SA Light Blue
4 1/4" (110mm) long.
Very sharp, superior finish. Excellent for assembly work.
243-1051-ND (18056EZ) **$3.95**

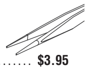

Pattern 5-SA Dark Green
4 1/4" (110mm) long.
For extra fine work, long blades break sharply from body and taper to super fine points.
243-1054-ND (18062EZ) **$3.95**

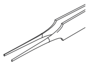

Pattern 7-SA Orange
4 1/2" (115mm) long.
Curved super fine points.
243-1055-ND (18072EZ) **$3.95**

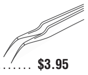

E-Z Pik Tweezers Set 6 piece
Set includes all styles in a durable pouch.
243-1056-ND (18480EZ) **$23.70**

Paladin Tools®

Adjustable Wire Stripper

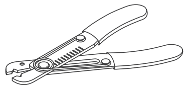

Works with standard 30 ~ 10AWG (.05 ~ 6mm2) wire in addition to fiber optic cable.

Features: • V-opening in blade • Adjust blades with a screwdriver for various size cables

Description	Digi-Key Part No.	Price Each	Paladin Part No.
Multipurpose Wire Stripper (30 ~ 10AWG)	PAL1161-ND	6.99	1161

P-Strippers 10 and 20

Cuts and strips a wire range of 30 ~ 10AWG. Works well for round voice and data cable, electrical wiring, hook-up wire, multi-conductor cables and coaxial cable. These strippers cover the most common range of insulated wire with precise, reliable action and durable steel craftsmanship. Strip standard insulations including PVC, rubber, polyurethane, polyethylene and silicone. Includes built-in safety lock, nose clamp, steel screw cutter and wire loop. PAL1105 is for use on Romex household wiring cable. Not for steel or armored wire and cable.

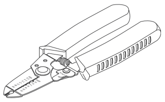

Description	Digi-Key Part No.	Price Each	Paladin Part No.
P-Stripper 10 Cutter/Stripper (22 ~ 10AWG)	PAL1105.1-ND	11.98	1105.1
P-Stripper 20 Cutter/Stripper (30 ~ 20AWG)	PAL1106.1-ND	11.98	1106.1

NEW! AM 25 and Universal Professional Slitters

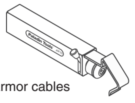

Blade swivels for circular, longitudinal and spiral cuts. Great for corrugated aluminum armor cables and mid-point taps or window slits.

Description	Digi-Key Part No.	Price Each	Paladin Part No.
AM 25 for Cables less than 1"	PAL1820-ND	49.99	1820
Universal Slitter for 0.18 ~ 1.4" Diameter Cable	PAL1822-ND	25.99	1822

Grip P-Strippers 10 and 20

Strip 30 ~ 10AWG-wire and cable using only two tools for the most common types: electrical wire, hook-up and multi-conductor.

Head and handles perfectly angled to prevent awkward wrist bends.

Rubber-imbedded, non-slip handles.

Screw cutter and wire loops embedded in frame.

Gripping jaws on front.

PAL1117 works on Romex cable individual conductors.

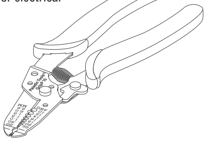

Description	Digi-Key Part No.	Price Each	Paladin Part No.
Grip P-Stripper 10 Cutter/Stripper (22 ~ 10AWG)	PAL1117-ND	14.99	1117
Grip P-Stripper 20 Cutter/Stripper (30 ~ 20AWG)	PAL1118-ND	14.99	1118

Multi-Purpose Tools

24 Tools-In-One:

• Needle Nose and Gripping Pliers • 110 and 66 Punchdown Tool • Romex® Wire Cutter • CAT5e UTP Stripper • 12/18/20/22/24 AWG Strippers • Drywall Punch and Saw • #4 and #6 Slotted Screwdrivers • #1 Phillips Screwdriver • 1/4" Hex Bit Driver and Adapter • SOG Serrated Knife • 3-in-1 File • Wire Hook and Spudger • Bottle Opener • Ruler • Leather Sheath Included

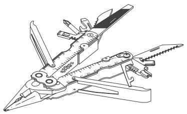

Lifetime Warranty
6510 Shown

30 Tools-In-One:

• Needle Nose and Gripping Pliers • 110 and 66 Punchdown Blades • Wire Hook and Spudger • Romex® Wire Cutter • UTP and Round Cable Stripper • 12/14/16 AWG and Romex Stripper • 18/20/22/24 AWG Strippers Built-Into Punchdown Blades • Large Romex and Hard Wire Cutter • Drywall Punch and Saw • #4 and #6 Slotted Screwdrivers • #1 Phillips Screwdriver • 1/4" Socket Drive with Hex Bit Adapter • 26 ~ 18 AWG Smaller Terminal Lug Crimper • 16 ~ 10 AWG Large Terminal Lug Crimper • SOG Knife with 1/2 Serrated Blade • 3-in-1 File • Wire Hook and Spudger • Bottle Cap Opener • Ruler • Leather Sheath Included • Scissors

Description	Digi-Key Part No.	Price Each	Paladin Part No.
24-in-1 Multi Tool	PAL6510-ND	89.99	6510
30-in-1 Multi Tool	PAL6520-ND ***NEW!***	124.99	6520

3M

ESD Mats and Hardware

Static Control Anti-Fatigue Mats

3M Anti-Fatigue Mats consist of a matrix of hollow cylinders that function like a spring when compressed. These mats provide a durable cushion that offers secure, stable footing and a unique energizing responsiveness. Their structure provides a stable surface supported by rubber cells that soften in response to surface activity. These cells provide the most effective cushioning solution because the 3M Static Control Anti-Fatigue Mats get softer as compressed, not harder like products made of foam. **Features:** • Color: Black • Resistance: Surface to Ground Snap: <1 x $10^6\Omega$, Surface to Ground: <2 x $10^6\Omega$ (when connected through 3M Ground Cord 3040) • Temperature Use Range: -40°C ~ 82°C

See www.digikey.com for detailed specifications and photos

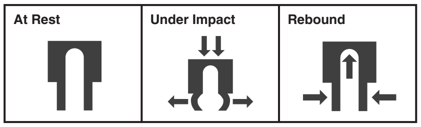

Description	Digi-Key Part No.	Price Each	3M Part No.
3 feet x 5 feet (0.9m x 1.5m)	SCP247-ND	339.90	9900
22 Inch, Octagonal Shape	SCP248-ND	112.79	9920

1864 Series Conductive Mat / Runner

1864 Floor Mat is a semi-flexible conductive floor mat that contains a rubber filler for resilience. It also has a textured surface for better traction. It includes two 3034 Snap Fasteners (installed) and one 15 ft. (3.0m) Ground cord with a 1MΩ resistor.

1864R Floor Runner is a 50 foot (15.24m) long runner of the 1864 mat material. It includes two 15 foot (3.0m) 3040 Ground Cords with 1MΩ resistor, five 3034 Snap Fasteners and one Snap Fastener Installation Tool.

Description	Digi-Key Part No.	Price Each	3M Part No.
Floor Mat, Black, 0.125 in. (3mm) 4 x 6 ft. (1.2 x 1.8m)	SCP209-ND	270.55	1864 (1/8x4x6)
Floor Runner, Black, 0.125 in. (3mm) 2 x 50 ft. (0.6 x 15m)	SCP210-ND	1015.16	1864R

Dissipative Mats

8200 Series:

Vinyl mats are soft table and floor mats with a unique three-layer construction. The top layer is durable static dissipative vinyl, which has sufficiently low resistance to discharge static-laden conductors, yet will prevent the shorting of pins on the backs of printed circuit boards laid on the mat.

8200 Series Floor Mats: Includes one 15 foot (4.6m) 3040 Ground Cord and two 3050 Snap Fasteners (installed).

8210 Series Table Mats: Includes two 3M 3050 Snap Fasteners (installed) and one 3M 3048 Wrist Strap Grounding System. Wrist Straps must be ordered separately.

8800 Series:

Rubber mats consist of a top layer of static dissipative rubber laminated to a bottom layer of conductive rubber. Both layers are made from vulcanized synthetic rubber, which offers excellent resistance to oil, grease and most common solvents. They offer superior resistance to heat and hot solder as compared to vinyl or olefinic materials.

8810 Series Table Mats: Includes two 3034 Snap Fasteners (installed) and one 3048 Wrist Strap Grounding System. Wrist Straps must be ordered separately.

Description	Digi-Key Part No.	Price Each	3M Part No.
Floor Mats			
Vinyl, Brown, 4 x 6 ft.	SCP214-ND	147.06	8201
Vinyl, Gray, 4 x 6 ft.	SCP215-ND	147.06	8203 FLOOR MAT
Vinyl, Blue, 4 x 6 ft.	SCP216-ND	147.06	8204 FLOOR MAT
Table Mats			
Vinyl, Brown, 2 x 4 ft.	SCP219-ND	58.54	8211 TABLE MAT
Vinyl, Gray, 2 x 4 ft.	SCP221-ND	58.54	8213
Vinyl, Blue, 2 x 4 ft.	SCP222-ND	58.54	8214
Rubber, Gray, 2 x 4 ft.	SCP224-ND	65.29	8810
Rubber, Blue, 2 x 4 ft.	SCP225-ND	65.29	8811

Field Service Kit

Static-Dissipative Portable Field Service Kit:

- Static-dissipative work mat with two pockets, .024 inches x 2 feet x 2 feet (0.6mm x 61cm x 61cm)
- Grounding cord assembly with alligator clip
- Charge-Guard™ Series adjustable wrist strap

Description	Digi-Key Part No.	Price Each	3M Part No.
Field Service Kit	SCP124-ND	65.45	8501

Lightweight Field Service Kit

The small lightweight kit offers the same level of static control as the full-sized 3M 8501 Field Service Kit, yet is small enough to fit in a shirt pocket.

Kit Includes:

- Static-dissipative work surface with pocket .015 inch x 15 inches x 20 inches (.38mm x 38.10cm x 50.80cm)
- 2204 Adjustable Wrist Band
- Lightweight Heavy-Duty Coiled Ground Cords: 2240 Wrist strap ground cord, 5 feet (1.52m); 2243 Extension ground cord, 5 feet (1.52m); 3063 Work surface ground cord 5 feet (1.52m)
- 3038 Alligator Clip

Description	Digi-Key Part No.	Price Each	3M Part No.
Lightweight Field Service Kit	SCP182-ND	99.02	8505

Grounding System for Wrist Strap/Table Mat

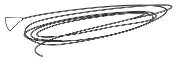

Easily snaps onto mats and runners; grounds two single conductor wrist straps.

Comes complete with ring connector and a 15 foot (4.6m) ground cord.

Ground cord has 1MΩ resistor for mat connection only.

SCP206-ND.. **$17.62**

Grounding Cord

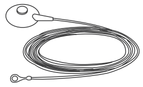

15 foot (4.6 meter) Pre-installed male snap fastener with integral one megohm resistor on one end, solderless terminal on other end.

Description	Digi-Key Part No.	Price Each	3M Part No.
Grounding Cord	SCP114-ND	12.42	3040

Workstation Grounding Kits

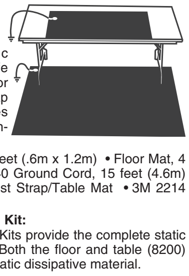

Grounding Kits provide the basic items needed to create a static-safe work environment They include a floor mat, table mat, adjustable wrist strap with grounding cord and accessories to properly connect all of the kit components.

Kit Includes: • Table Mat, 2 feet x 4 feet (.6m x 1.2m) • Floor Mat, 4 feet x 6 feet (1.2m x 1.8m) • 3M 3040 Ground Cord, 15 feet (4.6m) • 3M 3048 Grounding System for Wrist Strap/Table Mat • 3M 2214 Adjustable Wrist Strap

8020 Series Workstation Grounding Kit:
The 3M 8020 Workstation Grounding Kits provide the complete static protection offered by all the 3M kits. Both the floor and table (8200) mats are made from soft three layer static dissipative material.

8030 Series Workstation Grounding Kit:
These kits contain two different types of static control mats. The table mat is made of the soft three-layered, static dissipative 8200 material, while the floor (1864) mat is of the more rigid, conductive Velostat material.

Description	Digi-Key Part No.	Price Each	3M Part No.
Matching Table and Floor Mats			
Brown, 3 Layer Construction	SCP121-ND	415.88	8021
Gray, 3 Layer Construction	SCP123-ND	415.88	8023
Blue, 3 Layer Construction	SCP211-ND	415.88	8024
Colored Table Mat with Black Velostat Floor Mat			
Brown, 3 Layer Table Mat	SCP179-ND	391.72	8031
Gray, 3 Layer Table Mat	SCP180-ND	391.72	8033
Blue, 3 Layer Table Mat	SCP213-ND	391.72	8034

ACL Staticide®

RoHS COMPLIANT

ESD Mats

Dualmat™ Static Dissipative Work Surface Material

The Dualmat is a static dissipative industrial grade elastomer designed for use on table and other grounded work bench surfaces. The material meets both the ANSI/ESD S20.20 and European IEC 61340-5-1 specifications.

Features: • Embossed finish • Reversible • .080 inch (2mm) thickness • .05 sec, decay time • Low out gassing and VOC • Low abrasion • No vinyl monomers, or DOP • UV additives

Benefits: • One side colored other side black, ideal for fiber optics • Will withstand high temperature, solder, flux and harsh chemicals • Ideal for clean rooms and other controlled areas

Dimensions (Inches)	Color	Digi-Key Part No.	Price Each	ACL Staticide Part No.
24 x 36	Green†	ST1051-ND	63.25	8185GM2436
24 x 48		ST1052-ND	84.13	8185GM2448
24 x 60		ST1053-ND	105.13	8185GM2460
24 x 72		ST1054-ND	126.13	8185GM2472
30 x 60		ST1055-ND	131.38	8185GM3060
30 x 72		ST1056-ND	157.63	8185GM3072
24 x 36	Light Blue	ST1033-ND	63.25	8085BM2436
24 x 48		ST1034-ND	84.13	8085BM2448
24 x 60	Light Blue	ST1035-ND	105.13	8085BM2460
24 x 72		ST1036-ND	126.13	8085BM2472
30 x 60		ST1037-ND	131.38	8085BM3060
30 x 72		ST1038-ND	157.63	8085BM3072
24 x 36	Royal Blue	ST1039-ND	63.25	8285RBM2436
24 x 48		ST1040-ND	84.13	8285RBM2448
24 x 60		ST1041-ND	105.13	8285RBM2460
24 x 72		ST1042-ND	126.13	8285RBM2472
30 x 60		ST1043-ND	131.38	8285RBM3060
30 x 72		ST1044-ND	157.63	8285RBM3072
24 x 36	Dark Gray	ST1045-ND	63.25	8385DGYM2436
24 x 48		ST1046-ND	84.13	8385DGYM2448
24 x 60		ST1047-ND	105.13	8385DGYM2460
24 x 72		ST1048-ND	126.13	8385DGYM2472
30 x 60		ST1049-ND	131.38	8385DGYM3060
30 x 72		ST1050-ND	157.63	8385DGYM3072

† Green Mats can be used to designate lead free work areas

DESCO

ESD Mats and Hardware

Statfree® T2 Rubber Table Mats

These table top kits are perfect for individual workstation control. The mat rolls are used for cut-to-fit workstation control. Durable rubber material, dissipative on one side and conductive on the other — .060" (1.5mm) thick. Workstation kits include mat, common point ground cord and universal snap kit. ***Note:*** *Hardware not included with rolls.*

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
T2 Workstation Kits				
2 x 3 (0.6 x 0.91)	Blue	16-1097-ND	80.11	66040
2 x 4 (0.6 x 1.2)	Blue	16-1074-ND	99.46	66045
	Dark Grey	16-1075-ND	99.46	66055

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
T2 Workstation Mat Rolls				
2 x 40 (0.6 x 12.2)	Blue	16-1072-ND	643.93	66070
	Dark Grey	16-1073-ND	643.93	66080

Statfree® Type B Vinyl Table Mats

These tabletop kits are perfect for individual workstation ESD control. Smooth finish on one side and a non-glare finish on the other — .100" (2.54mm) thick. Complete common point ground kit is included with table mat kits.

Note: *Hardware not included with rolls.*

Dimensions Ft. (Meters)	Color	Kit Includes	Digi-Key Part No.	Price Each	Desco Part No.
Type B Mat Top Kits					
2 x 3 (.61 x .91)	Beige	Bench Ground Kit	16-1042-ND	70.03	16201
	Blue		16-1044-ND	70.03	16213
2 x 4 (.61 x 1.22)	Beige	Bench Ground Kit	16-1043-ND	84.57	16202
	Blue		16-1045-ND	84.57	16214

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
Type B Rolls				
2 x 40 (0.6 x 12.2)	Beige	16-1076-ND	492.84	16250
	Blue	16-1077-ND	492.84	16260
	Brown	16-1078-ND	410.00	16270
2.5 x 40 (0.76 x 12.2)	Beige	16-1079-ND	615.44	16255
	Blue	16-1080-ND	615.44	16265
	Brown	16-1081-ND	512.00	16275

Statfree® EB Rubber Floor Mat

Excellent floor mat for worker comfort and productivity.
Durable homogeneous rubber — .50" (12.7mm) thick.

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
3 x 5 (0.9 x 1.5)	16-1067-ND	311.14	40935

Statfree® CV Conductive Vinyl Floor Mat Kit

Excellent floor mat for hard surface and carpeted area using rolling chairs and carts. Durable and long lasting vinyl material; reversible — .125" (3.2mm) thick.

Ground kit is included with floor mat kits. **Color:** Black

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
CV Floor Mat Kit			
4 x 6 (1.2 x 1.8)	16-1071-ND	226.37	15006

(Continued)

DESCO

ESD Mats and Hardware *(Cont.)*

Statfree Z2™ Dissipative 3 Layer Vinyl Mat Top Kits

Statfree Z2 Material is a highly effective three-layer material. Its durable vinyl top layer makes it ideally suited for use as an ESD protective bench mat. Its highly conductive middle layer provides a faster discharge path to ground.

The cushioned dissipative bottom layer provides excellent protection against physical damage, and makes it easier to pick up small parts.

Note: *Kits include common point ground kit.*

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
2 x 3 (0.6 x 0.91)	Blue	16-1092-ND	75.43	42460
2 x 4 (0.6 x 1.2)		16-1093-ND	90.15	42465
2 x 3 (0.6 x 0.91)	Grey	16-1094-ND	75.43	42470
2 x 4 (0.6 x 1.2)		16-1095-ND	90.15	42475
Universal Snap Kit for Mats				
Universal Snap Kit for Mats, 6 pieces. (connects wrist strap to mat)		16-1012-ND	5.05	09864
Push and Clinch Snaps				
Pronged 10mm Stud Snap		16-1052-ND	4.08	09861
Pronged 10mm Socket Snap		16-1053-ND	4.08	09863

Statfree i™ Conductive Ergonomic Rubber Interlocking Room System

This material is designed primarily to be used as a floor runner or to protect an entire room.
The unique anti-fatigue dome/support cells provide extra comfort and prevent the mat from shifting on the floor.
Its interlocking strip can be easily trimmed to give clean beveled edges.

Color: Black.

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
2 x 3 (0.6 x 0.91)	16-1090-ND	130.15	40930
3 x 4 (0.91 x 1.2)	16-1091-ND	240.41	40931

Ground Point for Bench Mat and Two Wrist Straps without Resistor

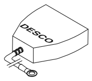

Description	Digi-Key Part No.	Price Each	Desco Part No.
10mm Socket, 10' (3.05m) Cord	16-1050-ND	22.18	09820
10mm Stud, 15' (4.57m) Cord	16-1051-ND	22.60	09825

Floor and Work Surface Ground Cord

Screw allows ground cord to be bolted to mat to keep cord from disconnecting.

Description	Digi-Key Part No.	Price Each	Desco Part No.
Without Resistor, 10mm Snap Stud, 15' Cord	16-1063-ND	22.18	09814

3M

Static Control Wrist Straps, Heel Straps and Testers

Charge-Guard™ Adjustable Wrist Strap

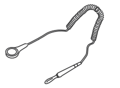

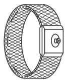

Flex life 1,000,000.

Wrist straps are the front line of defense in all static control processes. Ensure a comfortable fit with the Charge-Guard Series Adjustable Wrist Strap. One size adjusts to any size wrist to provide reliable, 360° protection.

Charge-Guard™ Disposable Wrist Strap

The Charge-Guard Disposable Wrist Strap provides cost-effective and reliable static protection.

The wrist strap is suited for shipping valuable products to ensure protection at the receiving end.

Highland Model™ 2272 Adjustable Static Control Wrist Strap

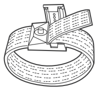

Conductive comfort band: Silver-plated, continuous monofilament threads establish a 360° contact zone and a reliable path to ground. The banding gently contacts the skin and allows it to breathe for extreme comfort. The stainless steel backplate secures the end of the band in the clasp and ensures reliable electrical bond.
Flex life: 350,000.

Description	Digi-Key Part No.	Price Each	3M Part No.
Wrist Strap with Coiled Cord, 5 ft.	SCP141-ND	17.72	2214
Wrist Strap with Coiled Cord, 10 ft.	SCP142-ND	24.61	2224
Replacement Wrist Bands	SCP144-ND	7.07	2204
Disposable Wrist Strap	SCP145-ND	1.20	2209
Adjustable Wrist Strap, with 5 ft. Coiled Grounding Cord and Alligator Clip	SCP172-ND	7.69	2272
Adjustable Wrist Strap	SCP173-ND	3.34	2271

Wrist Strap Grounding System

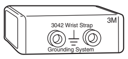

Wrist Strap Grounding System with two banana jacks and one 10 foot (3.0m) grounding cord.
SCP115-ND..**$21.85**

Static Control Shoe Grounding Assemblies (Heel Straps)

Long lasting Static Control heel straps provide static protection while retaining worker mobility.
Features: • Increase personnel mobility • One size fits most shoes • Extra long contact ribbon accommodates most boots
Note: The Grounding Assemblies are not to be used in areas where the individual may come in contact with electrical circuitry exceeding 250 volts.

Description	Digi-Key Part No.	Price Each	3M Part No.
With 1meg Ohm Resistor	SCP163-ND	8.34	2051

Charge-Guard™ 746 Wrist Strap Tester

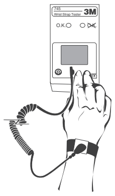

The 746 wrist strap tester is a compact unit much like the 745 but it operates on either battery or AC power.

Can be used in production facilities to field service locations.

Unit comes complete with an AC adapter, lithium battery and wall mounting kit.

SCP235-ND..............................**$201.07**

Wall Mount Wrist Strap Tester

The 3M 740 Wrist Strap Tester is an AC-powered unit designed to be wall-mounted in a production facility for daily testing of employees' static control wrist straps. Simple to operate, with red and green LEDs giving a clear "go" or "no go" indication. Comes with the base unit, output connector, wall-mounting system and template, cover for the wrist strap plug-in jack and the AC/DC transformer.
Dimensions: 5.43 x 7.48 x 2.09 inches (13.8 x 19.0 x 5.3 cm)
SCP204-ND...**$426.54**

Wrist Strap Workstation Monitor

The 3M 724 Wrist Strap Workstation Monitor continuously verifies the resistance of the operator and work surface ground connections. The monitor uses a reliable resistance method that actually includes the operator's skin resistance to determine if the system is operating properly. If the operator's resistance exceeds 10 megohms or 35 megohms, or the wiring connections exceed 3.7 megohms, audible and visible alarms are triggered. The unit will also warn of potentially dangerous low-resistance situations. The monitor uses the light and compact dual conductor wrist strap. Dual conductors provide the resistance circuit that is monitored as well as provide grounding redundancy. If one conductor fails, the other will still function to prevent sensitive components from being exposed to static. Comes complete with a quick connect/disconnect 732 Remote Jack and mounting hardware.

Dimensions: 6.5 x 3.25 x 1.5 inches (162 x 82 x 38mm)

Description	Digi-Key Part No.	Price Each	3M Part No.
Workstation Monitor Kit with Hardware	SCP226-ND	149.49	724
Dual Conductor Fabric Wrist Strap Adjustable	SCP232-ND	8.79	2368
Dual Conductor Coiled Cord 5'	SCP233-ND	17.69	2360
Dual Conductor Coiled Cord 10'	SCP234-ND	20.53	2370
Dual Conductor Coiled Cord 20'	SCP246-ND	36.14	2371
Dual Conductor Coiled Cord, 5', R/A	SCP240-ND	25.50	2360R
Dual Conductor Coiled Cord, 10', R/A	SCP241-ND	29.61	2370R
Dual Conductor Coiled Cord, 20', R/A	SCP242-ND	36.14	2371R
Dual Conductor Coiled Cord, 5', R/A	SCP243-ND‡	25.50	2391
Dual Conductor Coiled Cord, 10', R/A	SCP244-ND‡	29.61	2392
Dual Conductor Coiled Cord, 20', R/A	SCP245-ND‡	36.14	2393

‡ 3.4mm Plug-Not for use with SCP226-ND – Recommended for use with other manufacturers' monitors that use a larger input jack design.

Ground Man, Ground Monitors for Tools

Features: • Ground Man Monitors measure ground impedance in accordance with requirements of ANSI/ESDA S.20.20 standard • The alarm threshold can be easily adjusted at anytime in a range of 1 ~ 20Ω • Ground Man Monitors provide logic signal to the tool to shut it down when any of the grounds fail

Ground Man Plus: With the Ground Man Plus Monitors, you would cover all important ground connections in the tool and an operator

Description	Digi-Key Part No.	Price Each	3M Part No.
Ground Man Ground Monitor	SCP260-ND	193.86	CTC333-WW
Ground Man Plus Ground Monitor	SCP261-ND	249.28	CTC334-WW
Replacement Terminal Board with Jack	SCP262-ND	13.95	CTA251

Iron Man™ Workstation Monitors

Features: • Overvoltage monitoring of electronics assemblies • Soldering iron overvoltage failure alarm • Audio and visual alarms

Iron Man Plus™: With Iron Man Plus Monitors, an operator, a dissipative mat, and most importantly, all board assembly in progress are covered

Description	Digi-Key Part No.	Price Each	3M Part No.
Iron Man Soldering Iron Monitor	SCP258-ND	144.58	CTC330-WW
Iron Man Plus Soldering Iron Monitor	SCP259-ND	221.38	CTC331-WW

WS Aware® Dual Workstation Monitors

Ultra-Low Voltage WS Aware Monitors provide only 25 millivolts of signal to any part of the wrist strap at anytime, even when it is open

Features: • Dual wrist strap monitor • Body voltage monitoring • Metal ground monitoring • EMI on metal ground • Programmable thresholds • Individually Calibrated • Big Brother generator detection

Description	Digi-Key Part No.	Price Each	3M Part No.
Dual ESD Monitor	SCP251-ND	524.40	CTC061-3-WW
Dual ESD Monitor with Big Brother™	SCP252-ND	588.00	CTC061-3-BB-WW
Replacement Jacks	SCP253-ND	16.65	CTA245

Ground Master® Equipment Ground Monitor

Features:
• Ground Master measures ground impedance in accordance with requirements of ANSI/ESDA S.20.20 standard • The alarm threshold can be easily adjusted at anytime in a range of 1 ~ 20Ω • Each ground connection is protected by individual fuses to protect equipment in case of mis-wiring of neutral, power and ground • Ground Master RT provides relay closure and logic signal to the tool to shut it down when any of the grounds fail • Ground Master monitors EMI on each ground and indicates EMI status and more

Description	Digi-Key Part No.	Price Each	3M Part No.
Ground Master Ground Monitor	SCP263-ND	680.92	CTC065-RT

Ground Pro™ Ground Integrity Meter

Features: • Broadband EMI measurements • Audio alarms • Ground Master measures ground impedance in accordance with requirements of ANSI 6.1 and ANSI/ESDA S.20.20 standards • Ground Pro provides accurate ground impedance measurement in the presence of noise and ground currents; something a regular multimeter cannot do.

Description	Digi-Key Part No.	Price Each	3M Part No.
Ground Pro Ground Integrity Meter	SCP264-ND	1154.20	CTM051

Workstation Monitor Checker

The Workstation Monitor Checker was designed specifically to verify the proper operation of your dual wrist strap, workstation and ground monitors. The Checker simulates the proper resistances and signals to check the correct response and verify that the monitors are in compliance with your facilities specifications.

Description	Digi-Key Part No.	Price Each	3M Part No.
Monitor Checker	SCP265-ND	922.20	CTE701

(Continued)

3M

Static Control Wrist Straps, Heel Straps and Testers *(Cont.)*

ScanEM® Probes

Features: • Pinpoint exact sources of EMI • Detect electric and magnetic fields separately • Small size • Self-contained • LED color bar • Will not disturb circuit operation • RF output to spectrum analyzer and oscilloscope • DC output to a multimeter and more

Accessory Kit Includes: • Cable SMB/BNC 6' (1.8m) • BNC to Male N Adapter • BNC to Banana Plug Adapter

Description	Digi-Key Part No.	Price Each	3M Part No.
ScanEM-C Near-field Probe	SCP255-ND	806.20	CTK015
ScanEM-QC Near-field Probe	SCP256-ND	922.20	CTK019
ScanEM-C/QC Accessory Kit	SCP257-ND	108.80	CTA101

Electromagnetic Compliance Training Kit

With CTK031, following the clearly illustrated step-by-step instructions, you can demonstrate and experience:

• The difference between electric and magnetic fields • The effectiveness of a ferrite as a high frequency noise suppressor • The effectiveness of a shielding material • Ground plane currents • The location of hidden traces generating emissions • Pinpoint sources of emission and more

Description	Digi-Key Part No.	Price Each	3M Part No.
EMC Training Kit	SCP254-ND	1038.20	CTK031

NEW! ESD Pro Event Detector

Locate and identify ESD events in your process

The ESD Pro is a hand-held indicator of ESD events that detects and counts the discharges as well as shows the relative strength of each ESD event. It offers variable settings of the discharge alarm threshold to detect and count only those discharges that exceed the threshold. **Specifications:** • Sensitivity: 1 ~ 1,000V • Threshold: Adjustable • Discharge Polarity: Both • Event Count: 4-digit counter • Event Magnitude: LED Bar • ESD Event Indication: LED bar, buzzer

Description	Digi-Key Part No.	Price Each	3M Part No.
Event Detector	SCP266-ND	1154.20	CTM082 ESD-PRO

DESCO

Static Control Wrist Straps, Heel Straps and Testers

Adjustable Wrist Straps

Elastic wrist straps have silver impregnated nylon knitted inside with a soft lightweight fabric, allowing softness, comfort and flexibility. May be fitted to any size. 4mm snap.

Speidel® wrist straps are Twist-O-Flex® metal wrist straps made of non-allergenic stainless steel for reducing reactions and providing long service life.

Use **Replacement Coiled cords** for wrist straps, smocks and gloves. 4mm stainless steel contact snap to connect directly to wrist straps. Molded in one megohm series resistor at snap end to protect operator from line voltage.

Hook and Loop wrist straps are one size fits all. Return loop makes for quick and easy adjustment. Non-reactive anti-microbial, anti-bacterial medical grade conductive strip; the best choice for users with ultra sensitive skin.

Description	Digi-Key Part No.	Price Each	Desco Part No.
Elastic Band Wrist Strap			
With 6' (1.8m) Coil Cord, Blue	16-1087-ND	25.34	09070
With 12' (3.66m) Coil Cord, Blue	16-1086-ND	27.84	09069
Straps Only (no cord)	16-1085-ND	10.08	09028
Replacement Strip for 09028	16-1066-ND	4.55	09029
Economy Adjustable Wrist Strap with 6' (1.8m) Coiled Cord	16-1021-ND	14.84	09039
Speidel® Twist-O-Flex® Metal Band Wrist Strap			
With 6' (1.8m) Coiled Cord, Black	16-1006-ND	43.32	09085
Strap Only (extra large, no cord)	16-1008-ND	31.66	09042
Replacement Coiled Cords			
6' (1.8m) Economy Coiled Cord Only, Black, 4mm Snap	16-1022-ND	17.66	09480
6' (1.8m) (Relaxed) Retraction, R/A, Coiled Cord Only, Blk., 4mm Snap	16-1064-ND	17.10	91095
Hook and Loop Wrist Strap			
Straps Only (no cord)	16-1088-ND	12.54	09060

Dual ESD Ground Point Bench Mount

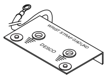

Description	Digi-Key Part No.	Price Each	Desco Part No.
With 10' (3.05m) Cord	16-1055-ND	23.50	09740

Foot / Heel Grounders

Features: • Exceptionally tear resistant dual layer rubber with inner scrim • Hook and loop fastening assembly • 8 strand nylon polyester grounding tab • Will not mark shoes

Description	Digi-Key Part No.	Price Each	Desco Part No.
Adjustable Hook and Loop Heel Strap with 1 Meg Res.	16-1024-ND	12.70	17200
Heel Grounder with 1 Meg Resistor	16-1068-ND	8.78	07588

Wrist Strap Tester

Battery powered 9 volt tester that tests wrist straps with a single touch at the workstation. Test results include Fail Low, Pass and Fail High. 800KΩ ~ 10MΩ

Description	Digi-Key Part No.	Price Each	Desco Part No.
Touch Tester, 9VDC	16-1089-ND	97.48	19240

Wrist Strap and Footwear Combo Tester with Stand or Footplate

Battery powered 9V tester that tests wrist straps with a single touch at the workstation. Test results include Fail Low, Pass and Fail High.
Wrist Strap Range: 750KΩ ~ 10MΩ
Footwear Range: 750KΩ ~ 100MΩ

Description	Digi-Key Part No.	Price Each	Desco Part No.
Combo Tester with Stand	16-1084-ND	430.87	19252
Combo Tester with Footplate	16-1098-ND	386.63	19253

Jewel® Mini Monitor

Ensures ESD protected workstation. Provides true 100% continuous monitoring; cannot be fooled, no false alarms. Small size takes up minimal work surface area.
Size: 2.77 inches x 2.07 inches

Description	Digi-Key Part No.	Price Each	Desco Part No.
Jewel Mini Monitor, 120V, Sapphire	16-1083-ND	131.97	19212

3M

Static Control Shielding Bags and Labels

Economy Static-Shielding Bags

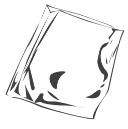

(1900 Series Metal-In): Use these more economical Static Shielding Bags for less demanding applications where reuse and high durability are not a prime consideration.

The metal-in aluminum vapor coating is on a thinner 0.48 mil polyester as opposed to the 0.92 mil polyester in the 2100 series.

Economy ZipBag Static-Shielding Bags

(1910 Series Metal-In): The 1910 features a dual track closure for easy opening and closing.

Size Inch (cm)	Digi-Key Part No.	Price Each 25	Price Each 100	3M Part No.
1900 Series Metal-In Transparent Shielding Bags, 3.1 mil				
3 x 5 (7.62 x 12.70)	SCP153-ND	2.48	8.91	1900 3x5
4 x 6 (10.16 x 15.24)	SCP154-ND	2.87	10.31	1900 4x6
4 x 24 (10.16 x 60.96)	SCP155-ND	7.75	27.90	1900 4x24
4 x 30 (10.16 x 76.20)	SCP156-ND	9.69	34.87	1900 4x30
5 x 8 (12.70 x 20.32)	SCP157-ND	4.06	14.62	1900 5x8
6 x 10 (15.24 x 25.40)	SCP158-ND	5.31	19.12	1900 6x10
8 x 10 (20.32 x 25.40)	SCP159-ND	6.55	23.56	1900 8x10
8 x 12 (20.32 x 30.48)	SCP160-ND	7.18	25.83	1900 8x12
10 x 14 (25.40 x 35.56)	SCP161-ND	10.24	36.85	1900 10x14
12 x 16 (30.48 x 40.64)	SCP162-ND	13.87	49.91	1900 12x16
1910 Series Metal-In Shielding ZipBags, 3.1 mil				
3 x 5 (7.62 x 12.70)	SCP165-ND	3.38	12.17	1910 3x5
4 x 6 (10.16 x 15.24)	SCP166-ND	3.91	14.08	1910 4x6
5 x 8 (12.70 x 20.32)	SCP167-ND	5.55	19.96	1910 5x8
6 x 10 (15.24 x 25.40)	SCP168-ND	7.25	26.10	1910 6x10
8 x 10 (20.32 x 25.40)	SCP169-ND	8.94	32.17	1910 8x10
10 x 12 (25.40 x 30.48)	SCP170-ND	12.05	43.36	1910 10x12
12 x 16 (30.48 x 40.64)	SCP171-ND	18.77	67.57	1910 12x16

Clear Anti-Static Tape

Size	Digi-Key Part No.	Price Each 1	Price Each 5	3M Part No.
Unprinted				
1/2" x 72 yards	3M40A-ND	11.52	10.53	40 X 1/2"
1" x 72 yards	3M40B-ND	23.03	21.06	40 X 1"
Pre-printed with Static Symbol				
1/2" x 72 yards	3M41A-ND	11.52	10.53	40PR (Printed) X 1/2"
1" x 72 yards	3M41B-ND	23.03	21.06	40PR (Printed) X 1"

Labels

Fig. 1

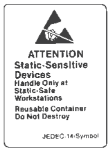
ATTENTION
Static-Sensitive Devices
Handle Only at Static-Safe Workstations
Reusable Container Do Not Destroy
JEDEC-14-Symbol

Fig. 2

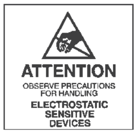
ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

Fig.	Digi-Key Part No.	Size Inches (mm)
1	SCP129-ND	1.75 x 2.5 (44.45 x 63.5)
	SCP128-ND	1.75 x 2.5 (44.45 x 63.5)
2	SCP127-ND	2 x 2 (50.80 x 50.80)
	SCP126-ND	2 x 2 (50.80 x 50.80)
	SCP130-ND	4 x 4 (101.60 x 101.60)

Description	Quantity (per roll)	Digi-Key Part No.	Price Each	3M Part No.
(JEDEC-14) Orange†•	500	SCP129-ND	28.87	7101
(JEDEC-14) Yellow†*	500	SCP128-ND	32.09	7102
(Mil. Std. 129J) Yellow†•	500	SCP127-ND	36.51	7201
(Mil. Std. 129J) Yellow†*	500	SCP126-ND	36.51	7202
(Mil. Std. 129J) Yellow†•	250	SCP130-ND	59.12	7203

† With Black type • Reusable * Destructible

Ionized Air Blowers

The 963 neutralizes static charge on non-conductive materials and helps prevent static from damaging sensitive electronic components. 120 Volts, 6 x 6 x 2.5 inches (15.24 x 15.24 x 6.35cm)

SCP207-ND **$399.14**

Overhead Air Ionizer 991

FEATURES: • Input Voltage: 100 ~ 230 VAC, 50/60 Hz • Input Current: 0.4A max, with North American Power Cord • Dimensions: 44 x 6 x 4 inches (111.7 x 15.2 x 10.1cm) • Certifications: cULus, TUV-GS, CE and C-Tick

See Digikey.com for detailed specifications

SCP249-ND **$993.75**
SCP250-ND (Replacement Filters - 3 pack) **$9.00**

DESCO

Static Control Shielding Bags, Labels and Desiccant Packs

Statshield® EMI/RFI ESD Moisture Barrier Bags

This bag combines the properties of MOISTURE-VAPOR-BARRIER with EMI-RFI-ESD shielding.
Manufactured from a Type 1 Class N652-260M film which is qualified to MIL-B-81705- Rev C Type I.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	Pricing 100	Desco Part No.
6 x 10 (15.24 x 25.40)	16-1016-ND	9.89	20.29	13808
10 x 12 (25.40 x 30.48)	16-1018-ND	17.93	36.81	13816
12 x 16 (30.48 x 40.64)	16-1019-ND	28.32	58.12	13824
18 x 24 (45.72 x 60.96)	16-1020-ND	59.76	122.70	13832

Statshield® ESD Shielding Bags – Metal Out

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies.
Meets the electrical and mechanical requirements of MIL-PRF-81705D, EIA541. Superior durability at a low cost.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	Pricing 100	Desco Part No.
3 x 5 (7.62 x 12.70)	16-1056-ND	3.71	9.54	13010
4 x 6 (10.16 x 15.24)	16-1057-ND	4.61	11.87	13020
5 x 8 (12.70 x 20.32)	16-1058-ND	6.20	15.97	13035
6 x 10 (15.24 x 25.40)	16-1059-ND	7.73	19.94	13050
8 x 10 (20.32 x 25.40)	16-1060-ND	9.26	23.84	13065
8 x 12 (20.32 x 30.48)	16-1061-ND	10.85	27.85	13070

(Continued)

DESCO

Static Control Shielding Bags, Labels and Desiccant Packs *(Cont.)*

Statshield® ESD Shielding Bags – Metal In

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies.

Meets the electrical and mechanical requirements of MIL-B-81705C. Superior durability at a low cost.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	 100	Desco Part No.
3 x 5 (7.62 x 12.70)	16-1027-ND	2.23	5.90	13405
4 x 6 (10.16 x 15.24)	16-1028-ND	2.49	6.63	13415
5 x 8 (12.70 x 20.32)	16-1029-ND	3.94	10.49	13430
6 x 10 (15.24 x 25.40)	16-1030-ND	4.78	12.63	13445
8 x 10 (20.32 x 25.40)	16-1031-ND	6.83	18.07	13460

Statshield® Zipper-Style ESD Shielding Bags – Metal In

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies. Features a reclosable polyethylene zipper for safe and easy opening and reclosing of bag.

Meets or exceeds one of more of the following standards: electrical and physical requirements of ANSI/ESD S20.20, Mil-PRF-81705D Type III, EIA 541, EIA 625, MIL-STD-1686 and EIA 583.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	 100	Desco Part No.
3 x 5 (7.62 x 12.70)	16-1032-ND	3.68	9.76	13605
4 x 6 (10.16 x 15.24)	16-1033-ND	4.78	12.65	13615
5 x 8 (12.70 x 20.32)	16-1034-ND	6.98	18.49	13630
6 x 10 (15.24 x 25.40)	16-1035-ND	8.34	22.12	13645
8 x 10 (20.32 x 25.40)	16-1036-ND	11.85	31.38	13660

Statshield® Lead-Free Area ESD Shielding Bags – Metal In

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies. Green color provides easy identification of Lead-Free assemblies and components in the manufacturing process.

Meets ANSI/ESD S20.20 and MIL-PRF-81705D, Type III.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	 100	Desco Part No.
4 x 6 (10.16 x 15.24)	16-1099-ND	2.26	5.16	12780
5 x 8 (12.7 x 20.32)	16-1100-ND	3.58	8.18	12781
6 x 10 (15.24 x 25.4)	16-1101-ND	4.31	9.86	12782
8 x 10 (20.32 x 25.4)	16-1102-ND	6.16	14.09	12783
8 x 12 (20.32 x 30.48)	16-1103-ND	7.12	16.27	12784
10 x 12 (25.4 x 30.48)	16-1104-ND	8.21	18.78	12785
10 x 14 (25.4 x 35.56)	16-1105-ND	9.79	22.37	12786
10 x 24 (25.4 x 60.96)	16-1106-ND	17.49	39.97	12787
12 x 18 (30.48 x 45.72)	16-1107-ND	15.03	34.36	12788
15 x 18 (38.1 x 45.72)	16-1108-ND	19.24	43.97	12789
18 x 18 (45.72 x 45.72)	16-1109-ND	22.37	51.13	12790
18 x 24 (45.72 x 60.96)	16-1110-ND	29.87	68.27	12791

Static Label for Packaging

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

Static Attention labels used for sealing Shielding Bags and marking ESD Containers.

Color: Yellow/Black

Description	Digi-Key Part No.	Price Each	Desco Part No.
2" x 2" (50.8mm x 50.8mm) 500 pieces	16-1001-ND	16.14	06722

3M ESD Card Carriers

Single Card Carriers

Single card carriers protect individual PCB's from static and physical damage during storage and transport. Interiors are lined with dissipative foam cushioning. The lid of each carrier can be modified for identification labels or company logos.

The 12 compartment tray is a molded ESD safe tray for transporting components within the plant or for storing components during PCB assembly.

Description	Digi-Key Part No.	Price Each	3M Part No.
Card Carrier 10" x 8" x 1.25" with Hinged Lid	SCP237-ND	24.43	8520
Card Carrier 12" x 9" x 1.25" with Hinged Lid	SCP238-ND	30.37	8521
Card Carrier 18" x 17" x 2" with Hinged Lid	SCP239-ND	61.94	8522
Card Carrier 10" x 8" x 2" with Hinged Lid	SCP190-ND	28.35	8523
Velostat™ Single Device Carrier 1.55" x 1.01" x 0.46"	SCP131-ND	5.75/10	5701

ACL Staticide®

Static Control Cleaning Products

General Purpose Staticide

(For Non-Porous Surfaces)

Solves static related problems such as:

- The attraction of dirt, dust and bacteria to all environmental surfaces, products and product packaging.
- Charge generation on surfaces of tote boxes and carriers used to process and store electronic components.
- Damage or destruction of sensitive electronic components and subassemblies during their manufacture, shipping or receiving.
- Data processing "glitches" ... memory loss, data errors, paper jams.

ST1002-ND (quart) **$11.50**

ST1059-ND (24 Individual Wipes)................................. **$8.63**

Heavy Duty Staticide

(For Porous Surfaces)

- Ideal for eliminating costly static problems on carpeting.
- Ideal for eliminating jamming or slipping of materials during printing, packaging or converting.
- Ideal for eliminating ignition of combustible vapors, dust or solvents causing fire or explosion.

ST1003-ND (quart) **$18.75**

ST1001-ND (4 oz. Spray Pump) **$6.50**

Mat and Table Top Cleaner

Non-abrasive, non-streaking and non-flammable wipes/cleaner ideal for general use on work stations, table tops and anti-static mats. It effectively removes dirt without degrading the surface's anti-static properties.

ST1004-ND (1 quart spray bottle)................................ **$7.38**

MTT20-ND (Wipes 20 count).................................... **$10.63**

Anti-Glare Screen Cleaner

Perfect for monitors and screens, won't streak or stain.
4oz. bottle with pump.

ST1025-ND **$5.63**

Industrial Size Wipes

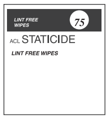

These strong, highly absorbent lint free cloths are for use on any surface.

Ideal for computer screens and computer screen filters.

Twice the size of a conventional wipe 11" x 8".
The extra big wipe with muscle.

ST1031-ND (Bundle of 75) **$11.88**

Ideal for use in industrial, commercial and technical environments.

ST1006-ND (Box of 50) **$33.25**

Notebook / Laptop Cleaning Wipes

Designed exclusively for all notebook computer screens for use to remove fingerprints, ink, nicotine and other contaminants.
50 pre-saturated wipes in a handy dispenser.

ST1020-ND **$13.63**

ESD Hand Sanitizer

This product provides excellent sanitization without the use of water or towels; contains 60% ethyl alcohol to prevent bacterial transfer. Comes in a 500ml pump bottle.

ST1030-ND **$11.25**

Anti-Bacterial Static Dissipative Soap

This product is specially formulated with .3% Triclosan, natural moisturizers and proprietary additives. This helps to kill gram-positive and gram-negative bacteria, as well as clean and moisturize the skin to protect against static. Comes in a 500ml pump bottle.

ST1058-ND **$14.51**

CD-ROM Scratch Repair Kit

Fix those damaged CD's. Repairs scratches and cleans fingerprints, dust and dirt. Staticide's new solution combines safe and effective cleaners with special polymers that actually molecularly bond to the disc surface repairing the toughest scratches.
Use on both old and new discs regularly to actually make them more durable.

ST1019-ND **$17.38**

Premoistened Wipes

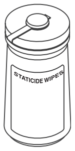

Pre-moistened Staticide Wipes: Meets or exceeds military electrostatic decay criteria. This long lasting wipe prevents dust attraction, is biodegradable, and is safe and easy to use. For use on all materials that are not adversely affected by water or alcohol. Wipes (80 count) supplied in reclosable container.

Staticide Telephone Cleaning Wipes: An effective way to clean and disinfect hard non-porous surfaces. Cleans and disinfects telephones, earphones, and other telecommunications equipment. Wipes supplied in reclosable container.

Staticide Clean & Clear Optical Wipes: These pre-moistened wipes contain a unique solution that cleans better and keeps lenses cleaner longer. Ideal for cleaning most types of glass and plastic lenses including goggles, cameras, binoculars, microscopes, camcorders and magnifiers. It also fights fog build-up. Wipes supplied in reclosable container.

ST1057-ND	Pre-moistened Staticide Wipes	**$8.88**
ST1028-ND	Staticide Telephone Cleaning Wipes	**$15.70**
ST1029-ND	Staticide Clean and Clear Optical Wipes........	**$14.88**

Anti-Static Starter Kit

This compact kit contains staticides, cleaner, lotion, swabs and wipes for all of your everyday static problems.

ST1032-ND **$24.95**

DESCO

Static Control Lotion and Cleaner

Reztore™ ESD Hand Lotion

Specially formulated for use in the electronic manufacturing environment. The moisturizing hand lotion can be used to enhance the effectiveness of ESD control wrist straps, particularly for individuals with dry skin. It is free of chemicals that may adversely affect solderability or cause corrosion of electronic components.

Contaminants: No soap, lanolin, free-salts, silicones or mineral oil

Description	Digi-Key Part No.	Price Each	Desco Part No.
ESD Hand Lotion, (1 quart pump)	16-1070-ND	18.98	81082

Reztore™ Antistatic Cleaner

Cleans and restores ESD mats and will not degrade surface's ability to drain charges. Does not contain silicon or alcohol. Ideal for cleaning mats, electronic instrumentation, medical equipment and computer monitors, keyboards and equipment.

Description	Digi-Key Part No.	Pricing 1	 12	Desco Part No.
Cleaner, (One Quart)	16-1054-ND	10.66	97.58	10435

ITW Chemtronics®

ESD Hand Lotion

Non-contaminating hand lotion for electronics. Contains no silicon. Non-greasy formula with a fresh natural fragrance in an 8 oz. (.24 liter) pump. Minimizes potential for static damage and build-up. Won't affect the solderability of components or PCBs.

Digi-Key Part No.	Price Each 1	 25	 100	 500	ITW Chemtronics Part No.
C805-ND	8.27	7.47	6.98	6.35	C805

MX Series Rework Soldering Systems and Replacement Parts

Features: SmartHeat® Technology. Metcal's tip cartridges sense the load and instantly adjust power to quickly deliver the right amount of heat precisely where it is needed. Metcal systems use SmartHeat Technology that is incapable of overshoot and can deliver high throughput at lower temperatures. Because the interchangeable SmartHeat cartridges contain a heater and temperature self-regulating alloy, Smart-Heat systems require no calibration. SmartHeat technology systems need no dials or readouts, tip cartridges specify the temperature by series, providing continuous temperature for fast, easy, and safe soldering.

Metcal's Talon® easy-squeeze design makes removing SMD components a snap. Talon was designed with ergonomics, style, and superior performance in mind. Beveled edge tips allows rework of several different components without changing tip cartridges.

Fig. 1

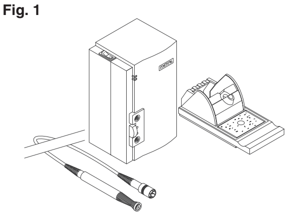

Tips sold separately.

Fig. 2

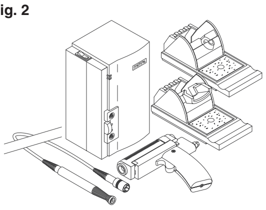

Tips sold separately.

Fig. 3

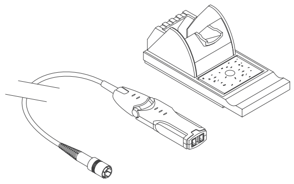

Tips sold separately.

Fig.	Description	Digi-Key Part No.	Price Each	Metcal Part No.
1	Rework System with Dual Expansion Port,100/120VAC	389-1000-ND	499.00	MX-500S-11
2	Rework/Desoldering System, 100/120 VAC	389-1087-ND	798.00	MX-500DS-11
—	Replacement Rework Handpiece with Cord, ESD Safe, for MX Systems	389-1001-ND	89.00	MX-RM3E
3	Optional Talon SMT Tweezer Kit, includes Handpiece with Cord, Workstand, Sponge, and Cartridge Removal Pad	389-1002-ND	389.00	MX-TALON-01
—	Tip Stand for MX Series	389-1045-ND	40.00	AC-TSTAND
—	Desolder Upgrade Kit, includes Handpiece, ESD Air Hose, Workstand, Chamber Liner and Filter Pack, Tip Cleaner	389-1088-ND	399.00	MX-D001

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each	Metcal Part No.
500°F Tip Cartridges for MX Series Rework Systems — RoHS Compliant				
.200 (5.080)	XL Chisel	389-1003-ND	22.60	STTC-517
.100 (2.540)	Chisel	389-1006-ND	22.60	STTC-536
.050 (1.270)	Conical Chisel	389-1082-ND	22.60	STTC-541
.060 (1.524)	Chisel	389-1007-ND	22.60	STTC-538
.040 (1.016)	Chisel	389-1005-ND	22.60	STTC-525
.016 (0.406)	Conical Sharp	389-1004-ND	22.60	STTC-522
.016 (0.406)	Sharp Bent	389-1080-ND	22.60	STTC-526
.016 (0.406)	Conical Sharp	389-1081-ND	22.60	STTC-540
.016 (0.406)	Bevel	389-1008-ND	22.60	STTC-545
.010 (0.254)	Microfine Bevel	389-1083-ND	22.60	STTC-590
600°F Tip Cartridges for MX Series Rework Systems — RoHS Compliant				
.200 (5.080)	XL Chisel	389-1009-ND	22.60	STTC-017
.100 (2.540)	Chisel	389-1011-ND	22.60	STTC-036
.070 (1.778)	Chisel	389-1012-ND	22.60	STTC-037
.060 (1.524)	Chisel	389-1013-ND	22.60	STTC-038
.040 (1.016)	Chisel	389-1064-ND	22.60	STTC-025
.016 (0.406)	Conical Sharp	389-1010-ND	22.60	STTC-022
.016 (0.406)	Sharp Bent	389-1065-ND	22.60	STTC-026
.016 (0.406)	Conical Sharp	389-1066-ND	22.60	STTC-040
.016 (0.406)	Bevel	389-1014-ND	22.60	STTC-045
.010 (0.254)	Microfine Bevel	389-1067-ND	22.60	STTC-090
700°F Tip Cartridges for MX Series Rework Systems — RoHS Compliant				
.200 (5.080)	X-Large Chisel	389-1070-ND	22.60	STTC-117
.100 (2.540)	Chisel	389-1074-ND	22.60	STTC-136
.100 (2.540)	Chisel	389-1124-ND†	22.60	STTC-136P
.070 (1.778)	Chisel	389-1075-ND	22.60	STTC-137
.070 (1.778)	Chisel	389-1125-ND†	22.60	STTC-137P
.060 (1.524)	Chisel	389-1076-ND	22.60	STTC-138
.040 (1.016)	Conical Sharp	389-1069-ND	22.60	STTC-107
.040 (1.016)	Chisel	389-1072-ND	22.60	STTC-125
.040 (1.016)	Chisel	389-1123-ND†	22.60	STTC-125P
.020 (0.508)	Conical Sharp	389-1078-ND	22.60	STTC-144
.016 (0.406)	Conical Sharp	389-1068-ND	22.60	STTC-106
.016 (0.406)	Conical Sharp	389-1071-ND	22.60	STTC-122
.016 (0.406)	Sharp Bent	389-1073-ND	22.60	STTC-126
.016 (0.406)	Conical Sharp	389-1077-ND	22.60	STTC-140
.016 (0.406)	Bevel	389-1079-ND	22.60	STTC-145
.016 (0.406)	Conical	389-1126-ND†	22.60	STTC-145P
.070 (1.778)	Bevel	389-1127-ND†	22.60	STTC-147P
.220 (5.588)	Knife	389-1122-ND†	43.79	STTC-1173P
800°F Tip Cartridges for MX Series Rework Systems — RoHS Compliant				
.120 (3.048)	Chisel	389-1084-ND	25.70	STTC-803

† Power Tips designed to address the high thermal demands of lead free alloys and other high thermal demand applications.

Desoldering Tips for MX Rework Systems

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each	Metcal Part No.
.025 (.635)	600 Series	389-1062-ND	37.65	STDC-002
.025 (.635)	700 Series	389-1089-ND	37.65	STDC-102
.030 (.762)	600 Series	389-1091-ND	37.65	STDC-003
.030 (.762)	700 Series	389-1090-ND	37.65	STDC-103
.040 (1.016)	600 Series	389-1092-ND	37.65	STDC-004
.040 (1.016)	700 Series	389-1063-ND	37.65	STDC-104
.050 (1.270)	600 Series	389-1093-ND	37.65	STDC-005
.050 (1.270)	700 Series	389-1094-ND	37.65	STDC-105

SMT Solder - Desolder Tips

Slot Tip

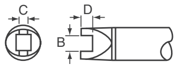

Tunnel Tip - SOIC

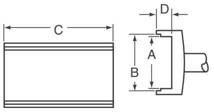

Talon Tips

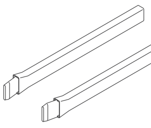

Tip Dimensions Inches (mm) A	B	C	D	SMD Component	Digi-Key Part No.	Price Each	Metcal Part No.
500°F SMD Slot Tip Cartridges for MX Series Rework Systems							
—	.090 (2.286)	.050 (1.270)	.070 (1.778)	Chip 0805	389-1015-ND	36.50	SMTC-501
—	.140 (3.556)	.060 (1.524)	.070 (1.778)	Chip 1206, 1210	389-1016-ND	36.50	SMTC-502
—	.068 (1.727)	.100 (2.540)	.050 (1.270)	SOT-23	389-1017-ND	36.50	SMTC-505
—	.110 (2.794)	.250 (6.350)	.080 (2.032)	SOT-89	389-1018-ND	36.50	SMTC-508
—	.070 (1.778)	.040 (1.016)	.035 (0.889)	Chip 0402, 0603	389-1019-ND	36.50	SMTC-596
—	.080 (2.030)	.050 (1.270)	.060 (1.520)	Chip 0402, 0603, 0805	389-1050-ND	36.50	SMTC-588
600°F SMD Tunnel Tip Cartridges for MX Series Rework Systems							
.200 (5.080)	.200 (5.080)	.170 (4.318)	.090 (2.286)	SOIC-8	389-1020-ND	41.75	SMTC-004
.200 (5.080)	.200 (5.080)	.400 (10.160)	.090 (2.286)	SOIC-14, SOIC-16	389-1021-ND	41.75	SMTC-006
.375 (9.525)	.375 (9.525)	.720 (18.288)	.125 (3.175)	SOIC-28, SOL-34	389-1022-ND	41.75	SMTC-007
.375 (9.525)	.375 (9.525)	.620 (15.748)	.125 (3.175)	SOIC-24	389-1023-ND	41.75	SMTC-009
.375 (9.525)	.375 (9.525)	.520 (13.208)	.125 (3.175)	SOIC-20	389-1024-ND	41.75	SMTC-010
700°F Quad Tip Cartridges for QFP							
.440 (11.18)	.480 (12.19)	.480 (12.19)	.110 (2.79)	TQFP-44	389-1047-ND	65.50	SMTC-1159

Description	Digi-Key Part No.	Price Each	Metcal Part No.
Hoof and Knife Tip Cartridges for Drag Soldering			
.650 x .060 (16.51 x 1.52), Mini Hoof, 600°F	389-1046-ND	43.78	SMTC-0167
.650 x .190 (16.51 x 4.83), Knife, 700°F	389-1048-ND	43.78	SMTC-1161
.650 x .060 (16.51 x 1.52), Mini Hoof, 700°F	389-1049-ND	43.78	SMTC-1167

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each*	Metcal Part No.
500°F Tip Cartridges for Talon® Series Tweezer Handpiece				
0.250 (6.350)	Beveled Blades	389-1025-ND	103.00	TATC-502
0.620 (15.748)	Beveled Blades	389-1026-ND	103.00	TATC-503
0.810 (20.574)	Beveled Blades	389-1027-ND	103.00	TATC-504
600°F Tip Cartridges for Talon® Series Tweezer Handpiece				
0.050 (1.270)	Angled Viper Tip	389-1086-ND	103.00	TATC-608
0.200 (5.080)	Fine Point Tip	389-1085-ND	103.00	TATC-601
0.250 (6.350)	Beveled Blades	389-1028-ND	103.00	TATC-602
0.620 (15.748)	Beveled Blades	389-1029-ND	103.00	TATC-603
0.810 (20.574)	Beveled Blades	389-1030-ND	103.00	TATC-604

Note: TATC tip cartridges are for use with Talon only. * Sold in pairs

PS-800 and PS-800E Soldering System

Features:
- The PS-800 Soldering System is compact for repetitive manual soldering and touch-up
- Utilizes SmartHeat® Technology
- Requires no calibration
- Uses replaceable heater tips rather than cartridges
- Perfect for lead-free hand soldering

PS800 Soldering System includes:
- Power Supply with Power Cord
- Hand-Piece with Cord
- Workstand with Sponge and Cartridge Removal Pad

PS800E Soldering System includes:
- Power Supply with Power Cord
- Hand-Piece with Cord
- Workstand with Sponge and Cartridge Removal Pad
- Auto Sleep Stand
- PS-CA2 Coil Assembly

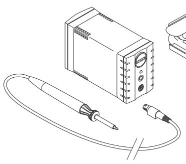

Description	Digi-Key Part No.	Price Each	OKi Part No.
PS-800 Soldering System	389-1095-ND	199.00	PS-800
PS-800 Soldering Handle with Coil Assembly	389-1096-ND	59.00	PS-HC1
PS-800 Workstand with Sponge	389-1097-ND	30.00	WS2
PS-800E Soldering System	389-1128-ND	199.00	PS-800E

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each	OKi Part No.
650 Series Tips for PS-800				
.06 (1.5)	Chisel 60°	389-1098-ND	9.00	PHT-650325
.07 (1.78)	Chisel Fine 30°	389-1099-ND	8.00	PHT-650335
.10 (2.5)	Chisel 30°	389-1100-ND	8.00	PHT-651355
.12 (3.0)	Chisel 30°	389-1101-ND	10.00	PHT-651367
.20 (5.0)	Chisel 30°	389-1102-ND	9.00	PHT-651384
.016 (0.4)	Conical 60°	389-1103-ND	9.00	PHT-652017
.016 (0.4)	Conical Fine	389-1104-ND	9.00	PHT-652035
.04 (1.0)	Conical Fine	389-1105-ND	10.00	PHT-652057
.016 (0.4)	Conical Fine Bent	389-1106-ND	9.00	PHT-652327
.02 (0.5)	Conical Fine Bent 30°	389-1107-ND	9.00	PHT-652335
.04 (1.0)	Conical Long	389-1108-ND	10.00	PHT-653067
.02 (0.5)	Minihoof 60°	389-1109-ND	10.00	PHT-654607
750 Series Tips for PS-800				
.04 (1.0)	Chisel Fine 30°	389-1110-ND	9.00	PHT-750315
.06 (1.5)	Chisel 60°	389-1111-ND	9.00	PHT-750325
.07 (1.78)	Chisel Fine 30°	389-1112-ND	8.00	PHT-750335
.10 (2.5)	Chisel 30°	389-1113-ND	8.00	PHT-751355
.12 (3.0)	Chisel 30°	389-1114-ND	10.00	PHT-751367
.20 (5.0)	Chisel 30°	389-1115-ND	9.00	PHT-751384
.016 (0.4)	Conical 60°	389-1116-ND	9.00	PHT-752017
.016 (0.4)	Conical Fine	389-1117-ND	9.00	PHT-752035
.04 (1.0)	Conical Fine	389-1118-ND	10.00	PHT-752057
.016 (0.4)	Conical Fine Bent	389-1119-ND	9.00	PHT-752327
.02 (0.5)	Conical Fine Bent 30°	389-1120-ND	9.00	PHT-752335
.02 (0.5)	Minihoof 60°	389-1121-ND	10.00	PHT-754607
SFV Series Tips for PS-800E				
.04 (1.0)	Chisel	389-1129-ND	11.00	SFV-CH10A
.078 (2.0)	Chisel	389-1130-ND	8.00	SFV-CH20
.02 (0.5)	Conical	389-1131-ND	10.00	SFV-CN05
.02 (0.5)	Conical Bent	389-1132-ND	8.00	SFV-CNB05

SP200 Soldering System

Features:
The SP200 is an ideal choice for through-hole soldering and surface mount touchup. As with all Metcal SmartHeat® systems, there is no calibration required.

Replacement Handle Includes:
- Handle
- Cord

Tips are sold separately.

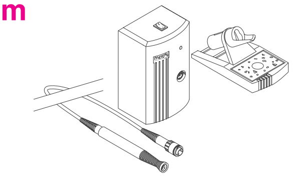

Description	Digi-Key Part No.	Price Each	Metcal Part No.
Soldering System, 115VAC	389-1031-ND	329.00	SP200-11
Replacement Solder Handpiece for SP200	389-1032-ND	60.00	SP-HC1
Cartridge Removal Pad	389-1044-ND	6.19	AC-CP2

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each	Metcal Part No.
500°F Soldering Tip Cartridges for SP200 Series — RoHS Compliant				
.125 (3.175)	Hoof - Drag	389-1035-ND	25.28	SSC-539A
.050 (1.270)	Mini Hoof	389-1037-ND	25.28	SSC-567A
.040 (1.020)	Conical Sharp	389-1033-ND	15.50	SSC-501A
.020 (0.510)	Conical Sharp	389-1034-ND	15.50	SSC-522A
.016 (0.406)	Bevel 60°	389-1036-ND	15.50	SSC-545A
600°F Soldering Tip Cartridges for SP200 Series — RoHS Compliant				
.100 (2.540)	Chisel 30°	389-1040-ND	15.50	SSC-636A
.070 (1.780)	Chisel 30°	389-1041-ND	15.50	SSC-637A
.060 (1.520)	Chisel 30°	389-1042-ND	15.50	SSC-638A
.040 (1.020)	Conical Sharp	389-1051-ND	15.50	SSC-601A
.040 (1.020)	Chisel 30°	389-1039-ND	15.50	SSC-625A
.020 (0.510)	Sharp Bent 30°	389-1053-ND	15.50	SSC-654A
.020 (0.510)	Conical Sharp	389-1038-ND	15.50	SSC-622A
.016 (0.406)	Bevel 60°	389-1043-ND	15.50	SSC-645A
.020 (0.510)	Sharp Bent 30°	389-1052-ND	15.50	SSC-626A
700°F Soldering Tip Cartridges for SP200 Series — RoHS Compliant				
.100 (2.540)	Chisel 30°	389-1058-ND	15.50	SSC-736A
.070 (1.780)	Chisel 30°	389-1059-ND	15.50	SSC-737A
.040 (1.020)	Conical Sharp	389-1054-ND	15.50	SSC-701A
.040 (1.020)	Chisel 30°	389-1056-ND	15.50	SSC-725A
.020 (0.510)	Conical Sharp	389-1055-ND	15.50	SSC-722A
.020 (0.510)	Sharp Bent 30°	389-1061-ND	15.50	SSC-754A
.020 (0.510)	Sharp Bent 30°	389-1057-ND	15.50	SSC-726A
.016 (0.406)	Bevel 60°	389-1060-ND	15.50	SSC-745A

WRS3000X Soldering/Desoldering Station

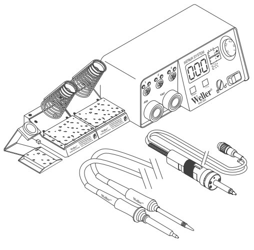

(Through Hole and SMT Repair or Rework)

Thermal Tweezers

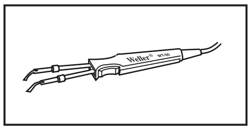

The WRS3000X combines all of the tools needed to cover most through hole and SMT repair or rework applications. The soldering tool is the powerful WSP80, featuring 300 watts of power to cover even the most difficult multi-layered applications. The desoldering tool is the DXV80. This tool features an inline design and 80 watts of power. The HAP1 Hot Air tool features a static free air stream that is heated by 100 watts of power. A full complement of nozzles are available for fine solder reflow or removing PLCC packages. The system is completely ESD safe, U.L. Approved and meets the Mil-Specs.

Features:
- Self-Contained
- Closed loop controlled hand pieces
- Digital display
- Microprocessor control for the ultimate accuracy
- Lock-out equipped
- Temperature setback
- Separate control of air flow rate, time and temperature
- Three independently controlled channels
- Burn-resistant cord
- F/C degree selector
- Full range of tips for rework and repair available
- Hot air and desoldering applications can be run without any separate switching
- Temperature Range: 150°F ~ 850°F (177°C ~ 454°C)

Note: *Tweezers will also work with EC series units.*

Description	Digi-Key Part No.	Price Each	Weller Part No.
Rework Station with Hot Air and Irons	WRS3000X-ND◆	1719.21	WRS3000X
SMT Thermal Tweezers w/Stand	0053313399-ND	189.00	WTA50SET
Tip, 1mm Thermal Tweezers, 2 pc.	0054414199-ND	15.42	WT1
Tip, 3mm Thermal Tweezers, 2 pc.	0054414699-ND	15.42	WTA2
Tip, 6mm Thermal Tweezers, 2 pc.	0054414799-ND	15.42	WTA3
Tip, 12.5mm Thermal Tweezers, 2 pc.	0054414399-ND	28.08	WT4
Tip, 18.5mm Thermal Tweezers, 2 pc.	0054414499-ND	28.08	WT5

◆ ***RoHS Compliant***

Micro Digital Rework Soldering Station

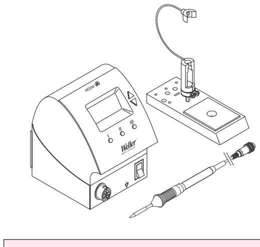

Features:
- 3 "radio buttons" allows pre-set of frequently used temperture settings
- Setback, lockout, temperture window, F/C switching, standby, auto-off time
- The pencil powers down when placed in the holder to extend tip life

Specifications:
- **Soldering Pencil:** WMRP
- **Temperature Range:** 150°F ~ 850°F (177°C ~ 454°C)
- **Voltage Input/Output:** 120V/24V
- **Supplied Tip:** RT3
- **Temperature Accuracy:** ±17°F

Description	Digi-Key Part No.	Price Each	Weller Part No.
Soldering and Rework Station	WD1000M-ND	499.00	WD1000M
Tip, RT1 Needle Tip	0054460199-ND◆	30.90	0054460199
Tip, RT2 0.4mm Point Tip	0054460299-ND◆	30.90	0054460299
Tip, RT3 1.3mm Chisel Tip	0054460399-ND◆	30.90	0054460399
Tip, RT4 1.5mm Chisel Tip	0054460499-ND◆	30.90	0054460499
Tip, RT5 0.8mm Chisel Bent, 30°	0054460599-ND◆	30.90	0054460599
Tip, RT6 1.2mm Round Bevel, 45°	0054460699-ND◆	30.90	0054460699
Tip, RT7 2.2mm Knife Tip, 45°	0054460799-ND◆	32.45	0054460799

◆ ***RoHS Compliant***

WRS1002X Electronically Controlled Desoldering Station

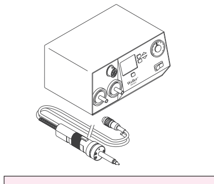

Features:
- Vacuum is generated with a self-contained pump
- 80 watts of power for faster heat up and better performance
- A wide range of DX Series desoldering tiplets available
- Digital process for exact temperature set, you control the process
- 80 watt desoldering pencil with internal disposable solder collection tube
- Safely and efficiently removing through hole components from PCB's
- Vacuum delay feature prevents clogging

Description	Digi-Key Part No.	Price Each	Weller Part No.
Digital Desoldering Station 80W	WRS1002X-ND	860.00	WRS1002X
Collection Tube for DXV80	0058741815-ND◆	6.96	0058741815
Desolder Tip, for DXV80 1.9 x 0.7mm	DX110-ND◆	12.45	DX110
Desolder Tip, for DXV80 2.5 x 0.7mm	DX111-ND◆	12.45	DX111
Desolder Tip, for DXV80 2.3 x 1.0mm	DX112-ND◆	12.45	DX112
Desolder Tip, for DXV80 2.5 x 1.2mm	DX113-ND◆	12.45	DX113
Desolder Tip, for DXV80 3.3 x 1.8mm	DX114-ND◆	12.45	DX114
Desolder Tip, for DXV80 1.9 x 0.7mm	DX115-ND◆	12.09	DX115
Desolder Tip, for DXV80 2.7 x 1.2mm	DX116-ND◆	12.45	DX116

◆ ***RoHS Compliant***

Weller®

WES51 and WESD51 Soldering Stations

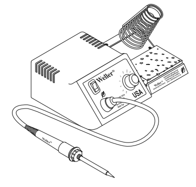

Features and Benefits: • Cordless temperature lockout to prevent operators from raising the temperatures to levels higher than specified for the board or component. Gives you control over the process • Cordless Tip Temperature Calibration, which provides the user with the capability of resetting station temperature readings to variations in tip sizes and styles • Quick heat-up and temperature recovery allows continuous production soldering • Slim, comfortable hand piece reduces operator fatigue • Accuracy within 9°F (5°C) **Temperature Range:** 350°F ~ 850°F (177°C ~ 454°C) • ESD Safe to protect sensitive components • Uses ET Series Tips

WES51-ND	Analog 50 Watt Soldering Station	**$119.00**
WESD51-ND	Digital 50 Watt Soldering Station	**$165.00**
PES51-ND	Replacement Iron	**$37.88**
BA60-ND	Replacement Barrel Nut Assembly for PES50 and PES51	**$6.20**

Digital Soldering Stations

WD1001 Includes: WD1 power unit, WMP soldering pencil, WDH20 Iron stand and sponge, NT1 supplied tip **Features:** • 3 "radio buttons" allows you to pre-set frequently-used temperature settings • Setback, lockout, temperature, window, F/C switching, standby, auto-off time • Large high contrast LCD display displays more information at a glance • Micro pencil with short tip to grip (37mm) puts you close to the work • High output pencil allows you to work with lead-free solder • Iron stand has adjustable tilt angle in 4 positions ranging from 30 ~ 80 degrees • ESD safe to protect sensitive components **Temperature Range:** 150°F ~ 850°F **Temperature Accuracy:** ±9°F (±5°C)

0052917099 — For use with WD2/ WD2M

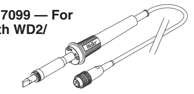

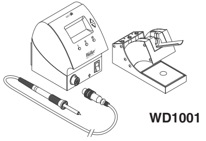

WD1001

Replacement Tips for WMP

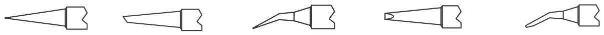

Description	Digi-Key Part No.	Price Each	Weller Part No.
Digital Solder Station 85 Watt with WMP	WD1001-ND	299.00	WD1001
Dual Digital Solder Unit 160 Watt without Iron*	WD2-ND	288.00	WD2
Dual Channel, Micro Digital Power Rework Unit, 120V	WD2M-ND	330.00	WD2M
Iron Stand with Sponge for WMP	WDH20-ND	38.63	WDH20
Soldering Iron 65 Watt with NT1 Tip	WMP-ND	108.00	WMP-ND
WSP150 Heavy Duty Soldering Pencil, 150 Watt, for use with WD2/WD2M	0052917099-ND	150.00	0052917099

Description	Tip Dimension (mm)	Tip Length (mm)	Digi-Key Part No.	Price Each	Weller Part No.
Replacement Tips					
Micro	0.25	7.40	NT1-ND	9.50	NT1
Micro	0.25	8.45	NT1S-ND	9.50	NT1S
Round	1.20	9.90	NT4-ND	9.50	NT4
Bent Round	0.40	8.15	NT1X-ND	11.40	NT1X
Chisel	1.60	9.45	NT6-ND	9.50	NT6
Chisel	1.60	8.40	NTA-ND	9.50	NTA
Chisel	2.40	7.35	NTB-ND	9.50	NTB
Chisel	3.20	7.75	NTC-ND	9.50	NTC
Bent Chisel	1.60	8.61	NTAX-ND	11.40	NTAX
Replacement Parts for WSP150					
Chisel	4.7	—	0054445299-ND	7.41	0054445299
Chisel	6.7	—	0054445199-ND	7.41	0054445199
Chisel	9.3	—	0054445099-ND	7.41	0054445099
Tip Retainer Nut	—	—	0058744795-ND	9.12	0058744795

* Power Unit only. Soldering pencils and stands sold separately.

0051502699 Circuit Board Vise

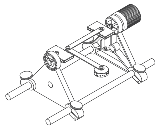

• Complete work center for placing, soldering and desoldering printed circuit boards • Spring clamps will hold work piece in place securely • Rotates through 360°, allowing work performance at any convenient angle • Adjustable features allow handling of variety of circuit board sizes • Maximum surface: 6-1/4"/160 mm x 9-1/8"/235 mm • 0051502699 is ESD SAFE

Description	Digi-Key Part No.	Price Each	Weller Part No.
Circuit Board Vise	0051502699-ND	49.44	0051502699

Controlled-Output Soldering Station WTCPT Weller's Work Horse

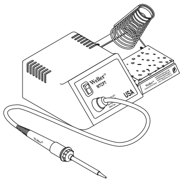

Specifications: • Transformer powered soldering station complete with macro style, low voltage, temperature controlled soldering iron • Special "closed loop" method of controlling maximum tip temperature to protect temperature sensitive components • Power unit housing features impact resistant plastic for durability • Quick disconnect plug for soldering iron and lighted on/off switch • Separate conductor grounds iron tip and terminates at third pin of power cord • PT series soldering tips come in a variety of shapes and sizes in three standard **Temperature Ranges:** 600°F (316°C), 700°F (371°C), and 800°F (427°C) • Uses PT series tips

Description	Digi-Key Part No.	Price Each	Weller Part No.
Complete Station 24V Output	WTCPT-ND	149.00	WTCPT
Replacement Soldering Iron	TC201T-ND	78.00	TC201T

NEW! WR3000M Rework Station

All parts shown are included in Rework Station. Accessories also sold separately.

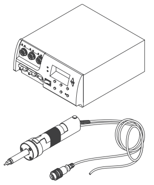

0051319099-ND

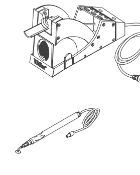

0052918499-ND

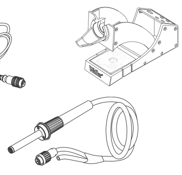

0052711699-ND

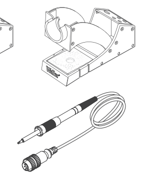

0052918099-ND

WR3000M Includes: HAP200: Hot air pencil, WP80: Soldering iron, DSX80: Desoldering iron, WVP: Vacuum pickup tool **Features:** • 400 watts of power over 3 independently controlled channels • Air and vacuum ports allow the use of up to 3 tools simultaneously • Compatible with high speed micro tools WMRP and WMRT **Temperature Range:** 150°F ~ 850°F

Description	Digi-Key Part No.	Price Each	Weller Part No.
Digital Rework Station with Tools	WR3000M-ND	1799.00	WR3000M
Accessories			
DSX Desoldering Iron, 80W	0051319099-ND	215.00	0051319099
WVP Vacuum Pick-up Tool	0052918499-ND	61.80	0052918499
HAP200 Hot Air Pencil	0052711699-ND	262.81	0052711699
WP80 Soldering Iron, 80W	0052918099-ND	108.00	0052918099
Cleaning Kit for DS80	0051312499-ND	14.69	0051312499

Description	Tip Dimension (mm)	Tip Length (mm)	Digi-Key Part No.	Price Each	Weller Part No.
Replacement Tips for DXV and DSV					
Eccentric	2.90	23	0051314799-ND	12.45	0051314799
Eccentric	1.5	23	0051314899-ND	12.45	0051314899
Eccentric	1.1	31	0051315199-ND	12.45	0051315199
Eccentric	2.49	22	0051315299-ND	12.45	0051315299

Digital Soldering Stations

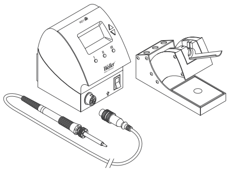

WD1002 Includes: • WD1 power unit • WP80 soldering pencil • WDH10 Iron stand and sponge • LTB Supplied Tip **Features:** • 3 "radio buttons" allows you to pre-set frequently-used temperature settings • Setback, lockout, temperature, window, F/C switching, standby, auto-off time • Large high contrast LCD display, displays more information at a glance • High output pencil allows you to work with lead-free solder • Iron stand has adjustable tilt angle in 4 positions ranging from 30° ~ 80° • ESD safe to protect sensitive components **Voltage Input/Output:** 120V/24V **Temperature Range:** 150°F ~ 850°F

Replacement Tips for WSP80 and WP80

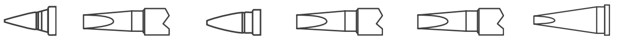

Description	Digi-Key Part No.	Price Each	Weller Part No.
Digital Solder Unit 85 Watt without Iron*	WD1-ND	187.00	WD1
Micro Digital Rework Power Unit, 120V	WD1M-ND	234.00	WD1M
Iron Stand with Sponge for WSP80	WDH10-ND	38.63	WDH10
Iron Stand for WSP80 Series	WPH81-ND	24.45	WPH81
Barrel Nut Assembly for WSP80	WS102-ND	6.69	WS102
80W Soldering Pencil with Short Tip-To-Grip (WP80)	0052918099-ND	108.00	0052918099
Digital Soldering Station 80W with WP80 Pencil	WD1002-ND	299.00	WD1002
Short Tip Retainer Assembly for WP80	0058744845-ND	10.05	0058744845
Long Tip Retainer Assembly for WP80	0058744846-ND	10.05	0058744846

Description	Tip Diagram (mm)	Tip Length (mm)	Digi-Key Part No.	Price Each	Weller Part No.
Replacement Tips					
Round	0.25	10.90	LT1-ND	3.72	LT1
Chisel	0.8	10.90	LTH-ND	3.72	LTH
Round	3.2	10.90	LTCS-ND	3.72	LTCS
Chisel	1.2	18.50	LTK-ND	3.72	LTK
Chisel	1.6	9.70	LTA-ND	3.72	LTA
Chisel	2.4	10.90	LTB-ND	3.72	LTB

* Power Unit only. Soldering pencils and stands sold separately.

Dual Micro Digital Rework Station

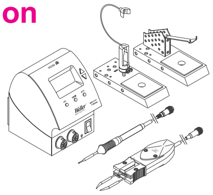

WD2000M Includes:

• Power Unit • WMRP and WMRT Soldering Pencils • WMRH Iron Stand

Features:

• 3 "radio buttons" allows pre-set of frequently used temperature settings • Setback, lockout, temperature window, F/C switching, standby, auto-off time • Tweezers are automatically switched off when placed in the WMRTH holder • ESD safe to protect sensitive components **Voltage Input/Output:** 120V/24V **Temperature Range:** 150°F ~ 850°F

Description	Digi-Key Part No.	Price Each	Weller Part No.
Dual Micro Digital Rework Station with Irons	WD2000M-ND	865.00	WD2000M
Tweezer set with WMRTH Stand and RTW2 Tip Set	0051317399-ND	305.00	0051317399
Micro Soldering Pencil for WMRS (WMRP)	0052917199-ND	118.00	0052917199
Micro Soldering Holder/Sponge for WDH50 (WMRP)	0051515699-ND ***NEW!***	87.44	0051515699
RTW1 Tip Set for WMRT Tweezers 0.2mm	0054465199-ND	64.89	0054465199
RTW2 Tip Set for WMRT Tweezers 0.7 x 0.4mm	0054465299-ND	64.89	0054465299
RTW3 Tip Set for WMRT Tweezers 3.0 x 0.7mm	0054465399-ND	77.00	0054465399
RTW4 Tip Set for WMRT Tweezers 5.99 x 0.7mm	0054465499-ND	77.00	0054465499

Weller® Accessories

Fig. 1

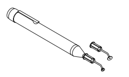

Fig. 2 ***NEW!***

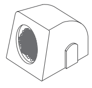

Fig. 3

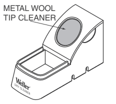

Fig. 4 ***NEW!***

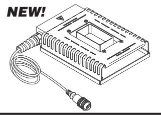

Fig. 5 ***NEW!***

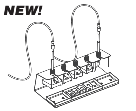

Fig. 6 ***NEW!***

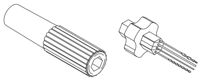

Fig.	Description	Digi-Key Part No.	Price Each	Weller Part No.
1	Vacuum Pick-up Tool	WLSK200-ND	48.80	WLSK200
2	WDH Dry Cleaning System	0051512599-ND ***NEW!***	12.06	0051512599
3	WDC Dry Cleaning System with Wool	0051512499-ND	16.00	0051512499
—	Replacement Wool (2/pack)	0051382499-ND	5.00	0051382499
—	Solder Bath, 80W (for use with WD2 and WD2M Stations)	0052704099-ND ***NEW!***	205.00	0052704099
4	Solder Bath, 150W (for use with WD2 and WD2M Stations)	0052704299-ND ***NEW!***	304.00	0052704299
5	SMT Chip Removal Nozzle Kit	0051515599-ND ***NEW!***	301.50	0051515599
6	Cleanout Tool for Desoldering Pencils	0051350099-ND ***NEW!***	14.70	0051350099
—	Polishing Bar for Soldering Tips	WPB1-ND ***NEW!***	8.05	WPB1
—	Tip Tinner for Solder Tip, 1.5Oz.	0051303199-ND ***NEW!***	8.05	0051303199

Professional Soldering Irons

WP25, WP30, WP35 Series Irons

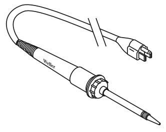

Features: • Fixed temperature units • Ideal for a wide variety of electronic tasks • Interchangeable heater elements - Single handle plus three different heating elements gives the user a trio of irons for different jobs • Quick change knurled collar makes changing heater simple • Lightweight handle with cushioned grip • For additional safety, all irons come with 3-wire power cord • Irons use ST series iron plated tips for long life and greater soldering efficiency • UL Listed

• *Important: Use only Weller tips • ST series tips*

Description	Digi-Key Part No.	Price Each	Weller Part No.
Soldering Iron with ST3 Tip, 25 Watt*	WP25-ND	37.07	WP25
Soldering Iron with ST3 Tip, 30 Watt*	WP30-ND	40.07	WP30
Soldering Iron with ST3 Tip, 35 Watt*	WP35-ND	46.67	WP35
Soldering Iron Stand for WP Series	PH60-ND	23.04	PH60
Knurled Tip Retaining Nut	KN60-ND	3.00	KN60

***** Soldering Iron Stand is sold separately.

Soldering Irons

Specifications: • Specifically designed for use at electrostatic free work stations • Non-burnable silicon rubber cord • Lightweight, high impact plastic handle • Blue plastic meets requirements for ESD, Electrostatic Dissipative Materials • Uses Weller EM series tips made of copper with heavy iron, nickel and chromium plating for long life • UL listed

NOTE: EC1302B and EC1201A work with DEC1001 and EC1002.

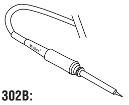

EC1302B:

• Micro-soldering tool • Stainless steel heater element construction • Fine tip iron for light duty applications

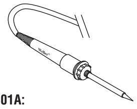

EC1201A:

• General purpose soldering tool • Stainless steel plug-in heater element construction • General purpose iron for mid-range applications

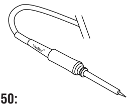

PES50:

• General purpose soldering tool • Stainless steel plug-in heater element construction • General purpose iron for mid-range applications

Description	Digi-Key Part No.	Price Each	Weller Part No.
20W Iron with EPH 101 Tip	EC1302B-ND	115.00	EC1302A
40W Soldering Iron with ETA Tip	EC1201A-ND	115.00	EC1201A
50W Soldering Iron with ETA Tip	PES50-ND	39.77	PES50
Replacement Sponge	TC205-ND	1.04	TC205

Replacement Tips for Irons

Tip Dim. (mm)	Description	Digi-Key Part No.	Price Each	Weller Part No.
	PT Series Tips for TC201T Iron			
1.57	Screwdriver, 700°F (371°C)	PTA7-ND	3.15	PTA7
1.57	Screwdriver, 800°F (427°C)	PTA8-ND	3.15	PTA8
3.18	Screwdriver, 700°F (371°C)	PTC7-ND	3.15	PTC7
3.18	Screwdriver, 800°F (427°C)	PTC8-ND	3.15	PTC8
.79	Conical Flat, 700°F (371°C)	PTF7-ND	3.15	PTF7
.79	Conical Flat, 800°F (427°C)	PTF8-ND	3.15	PTF8
.38	Long Conical, 700°F (371°C)	PTS7-ND	3.15	PTS7
.38	Long Conical, 800°F (427°C)	PTS8-ND	3.15	PTS8
	EPH Series Tips for EC1302B Iron			
.38	Micropoint Tip	EPH101-ND	5.10	EPH101
1.57	Screwdriver Tip	EPH106-ND	5.10	EPH106
Replacement Barrel Nut Assortment for EPH Tip		EC231-ND	8.40	EC231
	ET Series Tips for EC1201A			
1.57	Screwdriver Tip	ETA-ND	3.50	ETA
2.36	Screwdriver Tip	ETB-ND	3.50	ETB
.79	Screwdriver Tip	ETH-ND	3.50	ETH
.79	Conical Tip	ETP-ND	3.50	ETP
.40	Single Flat Tip	ETU-ND	3.50	ETU
.80	Long Conical Tip	ETO-ND	3.50	ETO
	Tips for Professional Soldering Irons — ST Series Tips for WP25, WP30, WP35 Irons			
1.57	Screwdriver Tip	ST1-ND	3.28	ST1
4.65	Screwdriver Tip	ST4-ND	3.28	ST4
.79	Single Flat Tip	ST5-ND	3.28	ST5
.79	Screwdriver Tip	ST6-ND	3.28	ST6

Flux and Scrub-It® Solvent Dispensers

Flux Dispensers: • Both static safe and standard hold 2 ounces • Avoid spills and waste and place flux precisely where needed • Squeeze bottles dispense one drop of liquid resin, flux, oil solvent through stainless steel needles • Static dissipative models protect static-sensitive components **Scrub-It® Solvent Dispensers:** • Squeeze dispenser to distribute solvent through brush • For cleaning printed circuit boards and other connections • No mess, no waste • Available with nylon bristles or horsehair for static-safe applications • Dispenser holds 2 ounces

Description	Digi-Key Part No.	Price Each	Weller Part No.
Flux Dispenser, 0.020" (.51mm) Needle	FD2-ND	2.76	FD2
Scrub-It Bottle, Nylon Bristle	SD74-ND	9.42	SD74
Scrub-It Bottle, Horsehair ESD Safe	SD74H-ND	9.42	SD74H

Hot Air Rework Station and Nozzles

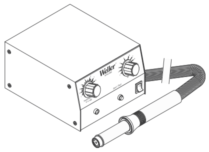

Specifications:

• 650W • Temperature Range: 122°F ~ 1022°F • Voltage: 120V

Features:

• Compact design maximizes workspace efficiency • Controlled output maintains set temperature regardless of air flow setting • Temperature and air flow are controlled independently • Standby button allows you to power down to low settings when not in use • Includes a rest support for the hand piece • Nozzles sold separately

Description	Digi-Key Part No.	Price Each	Weller Part No.
Self-Contained Hot Air Station, 120V	WHA900-ND	549.00	WHA900
Hot Air Nozzle, 44 PIN PLCC	0058736814-ND	66.42	0058736814
Hot Air Nozzle, 84 PIN PLCC	0058736833-ND	83.30	0058736833
Hot Air Nozzle, 20 PIN PLCC	0058736839-ND	63.77	0058736839
Hot Air Nozzle, 68 PIN PLCC	0058736804-ND	66.42	0058736804
Hot Air Nozzle, 14 PIN SOIC-SO8	0058736843-ND	63.77	0058736843
Hot Air Nozzle, 20 PIN SOIC	0058736842-ND	63.77	0058736842
Hot Air Nozzle, SOT23	0058736870-ND	63.77	0058736870

Tools

TB100: • 27 watt continuous heat gun turns into 130 watt soldering gun with a squeeze of the therma-boost trigger • Includes: Tool, conical and screwdriver soldering tips, scoring tip, rope cutting tip, foam cutting tip, smoothing tip, stand and instructions **WSA350:** • Removes flux fumes from the bench top by drawing the smoke through an activated carbon filter • Voltage: 120VAC • Air Consumption: 87-107 CFM • Sound Level: 45-50dB (A) • ESD Safe • UL and cUL Listed • Includes: Bench top smoke absorber and one WSA350F filter

TB100

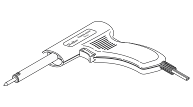

WSA350

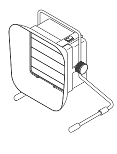

Description	Digi-Key Part No.	Price Each	Weller Part No.
Heat Tool with Therma-Boost Solder Gun	TB100PK-ND	20.60	TB100PK
Benchtop Smoke Absorber	WSA350-ND	50.00	WSA350
Carbon Replacement Filters (3 pack)	WSA350F-ND	5.25	WSA350F

Weller® portasol® Cordless Soldering Irons and Tips

Features: **75 Watt** • Gives the ultimate in portable power and convenience for all soldering jobs • Provides 25 ~ 75 watts of power • Adjustable temperatures up to 850°F (454.4°C) • Refueled with standard butane refills • Unit lasts for up to an hour of continuous use **125 Watt** • Self-igniting portable butane heat tool • Anti-static soldering • "Auto Switch" safety shut-off iron plated tips, and built-in butane filter • Rugged stainless-steel body provides up to 125 watts of power • Adjustable temperature up to 1,076°F (530°C) • Fuel level is clearly visible through a window on the body of the tool *Note: Butane not included (Butane is not sold by Digi-Key)*

75 Watt

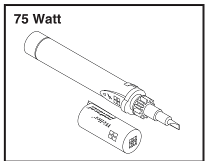

125 Watt

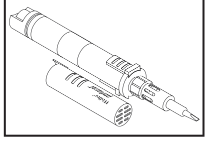

Description	Digi-Key Part No.	Price Each	Weller Part No.
	75 Watt		
Cordless Soldering Iron with PPT6 Tip, 2.4mm	P2C-ND	33.99	P2C
Single Flat, Solder Tip, 1.0mm	PPT1-ND	8.31	PPT1
Single Flat, Solder Tip, 2.4mm	PPT2-ND	8.31	PPT2
Double Flat, Solder Tip, 1.0mm	PPT5-ND	8.31	PPT5
Double Flat, Solder Tip, 2.4mm	PPT6-ND	8.31	PPT
	125 Watt		
Cordless Soldering Iron	PSI100C-ND	60.06	PSI100C
Single Flat, Solder Tip, 1.0mm	PSI1-ND	10.62	PSI1
Single Flat, Solder Tip, 2.4mm	PSI2-ND	10.62	PSI2
Single Flat, Solder Tip, 3.2mm	PSI3-ND	10.62	PSI3
Single Flat, Solder Tip, 4.8mm	PSI4-ND	10.62	PSI4
Single Chisel, Solder Tip, 1.0mm	PSI5-ND	10.62	PSI5
Double Flat, Solder Tip, 2.4mm	PSI6-ND	10.62	PSI6
Double Flat, Solder Tip, 3.2mm	PSI7-ND	10.62	PSI7
Double Flat, Solder Tip, 4.8mm	PSI8-ND	10.62	PSI8
Hot Blower Tip	PSI9-ND	10.62	PSI9

OK Industries
Division of Jonard Industries Corp.

Benchtop Fume Absorber

Aerodynamic hood design effectively draws solder fumes away from the work area.

Carbon filters traps up to 80% of the flux fumes.

Compact size and adjustable for convenient placement near work area.

Optional articulating arm with bench mount clamp converts benchtop fume absorber to suspended fume absorber for positioning directly over the work area.

An inexpensive alternative to individual fume extraction.

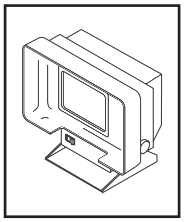

Description	Digi-Key Part No.	Price Each
Benchtop Fume Absorber, 115V with 3 Filters	K416-ND◆	101.20
Benchtop ESD Safe Fume Absorber, 115V with 3 Filters	K417-ND◆	123.00
Articulating Arm Assembly Kit with Bench Clamp	K418-ND	167.65
Replacement Carbon Filter Set, 3 Pieces	K419-ND◆	20.43
Benchtop Fume Absorber with Articulating Arm, 115V	K498-ND◆	228.65
Benchtop ESD Safe Fume Absorber with Articulating Arm, 115V	K499-ND◆	273.62

◆ *RoHS Compliant*

Vacuum Desolder Pumps

Features durable corrosion resistant plastic construction and corrosion treated springs with uniform reset pressure and cushioned shock reduction. Fitted with replaceable tips.

RoHS COMPLIANT

Fig. 1

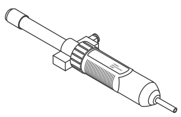

Fig. 2

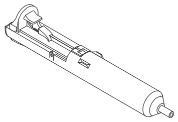

Description	Digi-Key Part No.	Price Each
Fig. 1		
High-Vac Desoldering Pump with Tip, Blue Replacement Tip for K412-ND, K500-ND	K412-ND K413-ND	18.75 3.00
ESD Safe Desoldering Pump with Tip, Black Replacement ESD Safe Tip for K414-ND	K414-ND K415-ND	23.75 5.00
Fig. 2		
Desoldering Pump	K500-ND	11.83

Paladin Tools®

Desoldering Pump

Desoldering tool removes solder with simple pushbutton operation.
A conductive tool for anti-static operation.
Replaceable tips available.

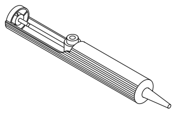

RoHS COMPLIANT

PAL1700-ND	Desoldering Pump	**$16.99**
PAL2712-ND	Replacement Tip	**$5.49**
PAL1704-ND	***NEW!*** Desoldering Pump with Anti-Static Tip	**$20.99**
PAL2716-ND	***NEW!*** Anti-Static Replacement Tip	**$6.99**

CHIP QUIK®

SMD Removal Kits

CHIP QUIK SMD rework products are designed as a low cost way to rework SMD components including QFP and PLCC packages, with very low temperature (300°F). It virtually eliminates damaged pads and circuitry or lost boards due to heat damage. SMD1 contains everything needed for removing SMD components with either convection (hot air) or conduction (solder iron). Use SMD16, SMD32, and SMD291 for larger jobs which require more CHIP QUIK material and flux. SMD2000/SMD6000 kits are complete solder/desolder rework kits for safely removing SMD components, cleaning the pads, placing component and reapplying solder safely with low operating temperatures. Approved by many top industry PC board manufacturers for reworking faulty components, without the need for specialized solder equipment.

CHIP QUIK removal alloy-no lead formula has been tested for rework on PC Boards that were manufactured with lead and no-lead solders with excellent results on both. It has also been successfully tested for SMD removal on all the major no-lead solders that are presently available in the industry.

SMD2000 Contents (In durable plastic case): • Removal Alloy SMD 4.5 with instructions • Solder Paste: No clean rework solder paste with flux in 1cc syringe with nozzle and cap • 3 feet silver solder • Paste Flux: No clean flux in 1cc syringe with nozzle and cap used for solder/desolder • Liquid Flux Remover/Cleaner: 5cc container with applicator (non-flammable) • Probe Kit: 4 stainless steel dental picks for SMD removal and placement • Solder Wick: No clean, 5 feet • Handi-Vac: SMD pick and place tool with tips • 2 Acid Brushes • Precision Tweezers: For SMD removal and placement • 6 Cleaning Wipes • 10 Swabs • 6 Alcohol Pads • CHIP QUIK SMD removal and clean up instructions.

SMD6000 Contents (In durable plastic case): • Removal Alloy SMD 8 feet with instructions • Solder Paste • Solder Wire • Paste Flux: For Lead Free Solder and Desolder Rework, 5cc syringe with handle and tip • Liquid Flux Remover/Cleaner: 1oz. container with applicator (non-flammable) • 4 Probe Kit • Solder Wick: No clean, 5 feet • Handi-Vac Tool: 3 tips • 2 Acid Brushes • 2 Precision Tweezers • 6 Cleaning Wipes • 10 Swabs • 12 Alcohol Pads • CHIP QUIK SMD rework instructions

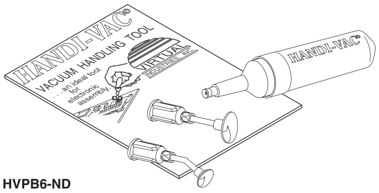

HVPB6-ND

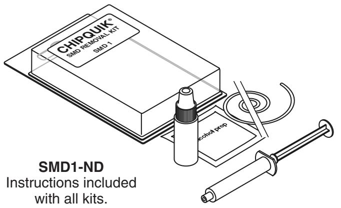

SMD1-ND
Instructions included
with all kits.

Description	Digi-Key Part No.	Price Each	CHIP QUIK Part No.
For 8-10 SMD's Complete Rework Kit, Contents Listed Complete Solder/Desolder No Lead Rework Kit	SMD1-ND SMD2000-ND SMD6000-ND◆	13.50 105.00 135.00	SMD1 SMD2000 SMD6000
Replacement Parts			
Industrial Pack Replacement Low Temperature Solder 16' Industrial Pack Low Temperature No Lead Solder 16' Industrial Pack Replacement Low Temperature Solder 32' Industrial Pack Low Temperature No Lead Solder 32' No Clean Paste Flux for Rework, 10cc Syringe	SMD16-ND SMD16NL-ND◆ SMD32-ND SMD32NL-ND◆ SMD291-ND	98.00 82.50 190.00 150.00 13.13	SMD16 SMD16NL SMD32 SMD32NL SMD291
Removal Alloy 4.5' No Lead Removal Alloy 8' No Lead Flux in 1cc Syringe, No Lead Handi-Vac Kit	SMD4.5NL-ND◆ SMD8NL-ND◆ SMD1NL-ND◆ HVPB6-ND◆	27.00 52.50 13.50 14.63	SMD4.5NL SMD8NL SMD1NL HVPB6

◆ *RoHS Compliant*

ITW Chemtronics® Desoldering Braid

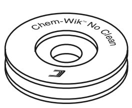

Pure copper braid construction coated with high purity rosin, quickly and thoroughly removes solder. Use Chem-Wik® or Soder-Wick® to remove components, SMDs, ICs, blobs and clean up poor solder connections. **Meets or Exceeds these Requirements:** • Mil-F-14256F Type R • NASA NHB 5300.4(3A) Reliability and Quality Assurance publication • NASA SP-5002 Soldering Electrical Connections • NASA NPC200-4 Quality publication • DOD Standard 1686B and DOD Handbook 263 • Mil-B-81705C Static Decay Rate Provision • Mil-Std-2000A

Width Inch (mm)	Length Feet (Meter)	Label Color	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
Chem-Wik Desoldering Braid							
.030 (.76)	5 (1.52)	White	CW2-5-ND	3.24	2.92	2.35	2-5L
.030 (.76)	25 (7.62)	White	CW2-25-ND	13.94	12.55	10.11	2-25L
.050 (1.27)	25 (7.62)	Yellow	CW5-25-ND	13.94	12.55	10.11	5-25L
.075 (1.91)	25 (7.62)	Green	CW7-25-ND	14.50	13.05	10.52	7-25L
.100 (2.54)	25 (7.62)	Blue	CW10-25-ND	15.48	13.94	11.23	10-25L
.030 (.76)	100 (30.48)	Gray	2-100L-ND	55.60	50.04	40.31	2-100L
.050 (1.27)	100 (30.48)	Yellow	5-100L-ND	55.60	50.04	40.31	5-100L
.075 (1.91)	100 (30.48)	Green	7-100L-ND	57.68	51.92	41.82	7-100L
.100 (2.54)	100 (30.48)	Blue	10-100L-ND	61.82	55.64	44.82	10-100L
Soder-Wick Desoldering Braid							
.030 (.76)	5 (1.52)	White	80-1-5-ND	3.64	3.28	2.64	80-1-5
.060 (1.52)	5 (1.52)	Yellow	80-2-5-ND	3.64	3.28	2.64	80-2-5
.080 (2.03)	5 (1.52)	Green	80-3-5-ND	3.94	3.55	2.86	80-3-5
.110 (2.79)	5 (1.52)	Blue	80-4-5-ND	4.26	3.84	3.09	80-4-5
.145 (3.68)	5 (1.52)	Brown	80-5-5-ND	4.70	4.23	3.41	80-5-5
.210 (5.33)	5 (1.52)	Red	80-6-5-ND	4.96	4.47	3.60	80-6-5
.030 (.76)	25 (7.62)	White	50-1-25-ND	15.94	14.35	11.56	50-1-25
.060 (1.52)	25 (7.62)	Yellow	50-2-25-ND	15.94	14.35	11.56	50-2-25
.080 (2.03)	25 (7.62)	Green	50-3-25-ND	16.40	14.76	11.89	50-3-25
.110 (2.79)	25 (7.62)	Blue	50-4-25-ND	18.08	16.28	13.11	50-4-25
.145 (3.68)	25 (7.62)	Brown	50-5-25-ND	20.28	18.26	14.71	50-5-25
.210 (5.33)	25 (7.62)	Red	50-6-25-ND	21.52	19.37	15.61	50-6-25
.060 (1.52)	100 (30.48)	Yellow	50-2-100-ND	61.70	55.53	44.74	50-2-100
.080 (2.03)	100 (30.48)	Green	50-3-100-ND	64.26	57.84	46.59	50-3-100
.110 (2.79)	100 (30.48)	Blue	50-4-100-ND	70.92	63.83	51.42	50-4-100
No-Clean Soder-Wick Desoldering Braid							
.030 (.76)	5 (1.52)	White	60-1-5-ND	3.94	3.55	2.86	60-1-5
.060 (1.52)	5 (1.52)	Yellow	60-2-5-ND	3.94	3.55	2.86	60-2-5
.080 (2.03)	5 (1.52)	Green	60-3-5-ND	4.10	3.69	2.98	60-3-5
.110 (2.79)	5 (1.52)	Blue	60-4-5-ND	4.70	4.23	3.41	60-4-5
.145 (3.68)	5 (1.52)	Brown	60-5-5-ND	5.14	4.63	3.73	60-5-5
.210 (5.33)	5 (1.52)	Red	60-6-5-ND	5.56	5.01	4.04	60-6-5
.030 (.76)	10 (3.04)	White	60-1-10-ND	7.12	6.41	5.17	60-1-10
.060 (1.52)	10 (3.04)	Yellow	60-2-10-ND	7.12	6.41	5.17	60-2-10
.080 (2.03)	10 (3.04)	Green	60-3-10-ND	7.56	6.81	5.49	60-3-10
.110 (2.79)	10 (3.04)	Blue	60-4-10-ND	8.46	7.62	6.14	60-4-10
.145 (3.68)	10 (3.04)	Brown	60-5-10-ND	9.30	8.37	6.75	60-5-10

Ball Grid Array (BGA) Desoldering Braid

60-BGA-5-ND Soder-Wick BGA, No-Clean, 5 Feet (1.52 Meter).. **$5.21**

80-BGA-5-ND Soder-Wick BGA, Rosin, 5 Feet (1.52 Meter).. **$4.71**

Lead-Free SD Desoldering Braid

Soder-Wick® Lead-Free is the state of the art in desoldering technology. It is specially designed for removal of today's high temperature lead-free solders.

Features: • Fastest wicking and heat transfer • Halide free, no corrosive residues • Minimizes risk of heat damage to pads, components and PBCs • Can be used with Tin/Lead solders **Specifications**: ANSI/IPC J STD-004; MIL-F-14256 F **No-Clean Flux Specifications**: MIL-STD-883B; Bellcore TR-NWT-000078; ANSI/IPC J SF818

Width Inch (mm)	Length Feet (Meter)	Label Color	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
.060 (1.5)	5 (1.52)	Yellow	40-2-5-ND	3.96	3.57	2.88	40-2-5
.060 (1.5)	10 (3.04)	Yellow	40-2-10-ND	7.12	6.41	5.17	40-2-10
.080 (2.0)	5 (1.52)	Green	40-3-5-ND	4.14	3.73	3.01	40-3-5
.080 (2.0)	10 (3.04)	Green	40-3-10-ND	7.54	6.79	5.47	40-3-10
.110 (2.8)	5 (1.52)	Blue	40-4-5-ND	4.66	4.20	3.38	40-4-5
.110 (2.8)	10 (3.04)	Blue	40-4-10-ND	8.24	7.42	5.98	40-4-10

Lead-Free Pocket Solder

Lead-Free pocket solder is the high purity pocket-sized solder in a convenient dispenser for rework and repair.

Specifications: • Diameter 0.04" (1mm) • RMA Flux Core: 3% • Solder Composition: (Sn) 96.5% (Ag) 3.0% (Cu) 0.5% • Melting Point: 419° ~ 424°F (215° ~ 219°C)

S200-ND 125" (3.18m) **$16.32**

Presaturated Wipes

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Optic Prep High Quality Optical Cleaning and Polishing Pads (50 Pcs.)	CP410-ND	23.49	21.23	CP410
Chempad General Purpose, Lint-free, Nonabrasive Cleaning Pads (50 Pcs.)	CP400-ND	25.85	23.36	CP400
Electro-Wash® MX Plastic-Safe Cleaner 8" x 10" (25 Pcs.)	CP421-ND	51.42	46.28	CP421
Screen-Prep Wet-and-Dry Wipes for Monitor Screens (25 Twin Packs)	CSP20-ND	27.69	25.02	CSP20

Unsaturated Wipes

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Lightweight Polyester Wipes, 9" x 9" (150 Pcs.)	6209-ND	61.02	55.14	6209
Polyester/Cellulose Blend, Nonwoven Wipes, 4" x 4" (1200 Pcs.)	6704CH-ND	31.92	28.85	6704
Polyester/Cellulose Blend, Nonwoven Wipes, 9" x 9" (300 Pcs.)	6709CH-ND	31.92	28.85	6709
Polyester/Cellulose Blend, Nonwoven Wipes, 12" x 13" (50 Pcs.)	6713-ND	11.30	10.17	6713
Sealed Edge Microfiber Chamois™ Wipes, 8" x 8" (50 Pcs.)	7348LE-ND	130.56	117.98	7348LE

Hand Cleaner Towels-In-a-Bucket

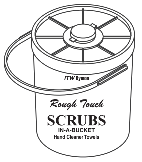

Whether you are in the shop, on the assembly line, or out in the field, these premoistened towels are ready to use for your hard working hands. The citrus based formula combined with an absorbent, non-scratching towel will loosen, dissolve, and absorb soils from your hands. Towels will not re-transfer soils back onto your skin, and will leave your hands conditioned and protected while you clean. Residue free.

Quickly Removes: • Adhesives • Caulk • Dirt • Epoxy • Grease • Grime • Lubricants • Ink and Dye • Sealants • Tar • Urethane • Wax • Asphalt • Polyurethane • Paint • Oils

For More Than Just Hands: • Tools • Plastics • Vinyl • Painted Surfaces • Metal • Work Surfaces • Equipment • Composites • Workbenches

42272-ND 72 Towels (10.5" x 12.25")... **$24.98**

Swabs and Applicators

For general purpose cleaning of magnetic heads, video heads and optical pickups.

Fig. 1 **Chamois Tip, ABS Handle**

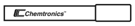

Fig. 2 **Cotton Tip, Wood Handle**

Fig. 3 **Cotton Tip, Double Ended**

Fig.	Qty. (Pcs.)	Length Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
1	50	3.25 (82.55)	CC50-ND	40.69	36.77	34.32	CC50
2	100	6.00 (152.40)	CT100-ND	3.95	3.57	3.34	CT100
3	100	6.00 (152.40)	CT200-ND	4.22	3.81	3.56	CT200
	1000	6.00 (152.40)	CT2000-ND	33.68	30.44	28.41	CT2000
—	25	5.00 (127)	CS25-ND	33.05	29.87	27.88	CS25

Prototyping and Rework Dispensing Pens

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Conformal Coating Remover Pen for PCBs (.32 Oz.)	CW3500-ND	13.46	12.17	CW3500
Lead-Free No-Clean Flux Dispensing Pen (.32 Oz.)	CW8400-ND	7.84	7.08	CW8400
Lead-Free Flux Remover Pen (.32 Oz.)	CW9400-ND	9.93	8.97	CW9400
Flux Remover Pen for No-Clean Fluxes (.32 Oz.)	CW9100-ND	10.34	9.35	CW9100
Flux Remover Pen for Rosin Based Fluxes (.32 Oz.)	CW9200-ND	9.93	8.97	CW9200
Conductive Trace Pen, Std. Tip for Repairing PCBs..........................	CW2200STP-ND	24.70	22.32	CW2200STP
Conductive Trace Pen, Micro Tip for Repairing PCBs	CW2200MTP-ND	24.70	22.32	CW2200MTP
Overcoat Pen for Protecting Conductive Trace on PCB............................	CW3300G-ND	17.43	15.75	CW3300G
Conductive Silver Grease for Relays and Connectors	CW7100-ND	25.23	22.80	CW7100
Conductive Rubber Keypad Repair Kit	CW2605-ND	16.62	15.02	CW2605

Clean Room Products

Swabs and Applicators

Fig. 1

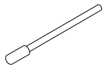

Fig. 2

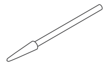

Fig. 3

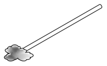

Fig. 4

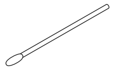

Fig.	Qty. (Pcs.)	Length Inch (mm)	Shaft Description	Tip Description	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
1	500	2.80 (71.10)	.10" (2.54mm) Width ESD Shaft	.12" (3.05mm) Diameter, Knit Polyester Tip	31040ESD-ND	108.58	98.12	91.58	31040ESD
	500	2.80 (71.10)	.10" (2.54mm) Width Polypropylene Shaft	.13" (3.30mm) Diameter, Foam Polyurethane Tip	41050-ND	48.12	43.49	40.59	41050
	500	2.80 (71.10)	.10" (2.54mm) Width ESD Shaft	.13" (3.30mm) Diameter, Foam Polyurethane Tip	41050ESD-ND	97.79	88.37	82.48	41050ESD
2	500	3.20 (81.28)	.10" (2.54mm) Width Polypropylene Shaft	.11" (2.79mm) Diameter, Foam Polyurethane Tip	44070-ND	52.59	47.52	44.36	44070
	500	3.20 (81.28)	.10" (2.54mm) Width ESD Shaft	.11" (2.79mm) Diameter, Foam Polyurethane Tip	44070ESD-ND	97.79	88.37	82.48	44070ESD
	50	6.70 (170.18)	Polypropylene Shaft	Tapered Applicator Porous Polyvinylidene Fluoride Tip	CM502-ND	35.41	32.00	29.87	CM502
3	500	6.00 (152.40)	.09" (2.29mm) Width Wood Shaft	.47" (11.94mm) Diameter, Polyurethane Foam over Cotton Tip	23110-ND	136.60	123.44	115.21	23110
4	25	6.30 (160.02)	.12" (3.05mm) Width Glass Filled Nylon Shaft	.26" (6.60mm) Diameter, Knit Polyester Tip	52121-ND	15.42	13.94	13.01	52121

Flux-Core Solders

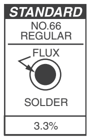

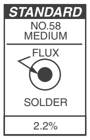

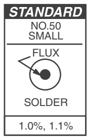

Alloy	Melting Range (°F)
Sn63Pb37	361
Sn60Pb40	361-374
Sn62Pb36Ag02	354-372
Sn43Pb43Bi14	291-325
Sn96.5Ag3.0Cu0.5	423
Sn99.3Cu0.7	440

"44" RA Solders

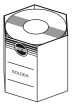

Kester "44" has virtually dominated the field of activated rosin core solders for well over four decades. An outstanding performance feature of this flux is the "instant wetting" action. The high mobility and fast spreading action of this flux results in more reliable production line soldering. Gold Label.

Description	Digi-Key Part No.	Price Each 1	5	10
RA Solder "44", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1100-ND	24.63	22.17	19.70
18 Gauge Solder, 3.3% Flux, .050" (1.27mm) dia.	KE1108-ND	25.38	22.84	20.30
19 Gauge Solder, 3.3% Flux, .040" (1.02mm) dia.	KE1101-ND	27.63	24.87	22.10
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1102-ND	29.13	26.22	23.30
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1109-ND	30.23	27.21	24.18
25 Gauge Solder, 3.3% Flux, .020" (.51mm) dia.	KE1103-ND	40.25	36.23	32.20
28 Gauge Solder, 3.3% Flux, .015" (.38mm) dia.	KE1110-ND	47.13	42.42	37.70
RA Solder "44", 60/40, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1104-ND	24.00	21.60	19.20
18 Gauge Solder, 3.3% Flux, .050" (1.27mm) dia.	KE1115-ND	24.75	22.28	19.80
19 Gauge Solder, 3.3% Flux, .040" (1.02mm) dia.	KE1105-ND	27.00	24.30	21.60
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1106-ND	28.50	25.65	22.80
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1116-ND	29.60	26.64	23.68
25 Gauge Solder, 3.3% Flux, .020" (.51mm) dia.	KE1107-ND	39.63	35.67	31.70

"48" RA Lead-Free Solder

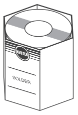

Kester "48" activated rosin flux for cored solder wire was developed for lead-free applications to enable soldering of most common metals. Performance characteristics far exceed standard RA fluxes. Kester "48" builds on the performance of its predecessor Kester "44" with "instant-action" wetting to provide fast and reliable solder joints. Kester "48" is classified as ROL1 per J-STD-004.

Description	Digi-Key Part No.	Price Each 1	5	10
Sn96.5Ag3.0Cu0.5, 1 Lb Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1125-ND	51.65	46.49	41.32
18 Guage Solder, 3.3% Flux, .050" (1.27mm) dia	KE1124-ND	52.40	47.16	41.92
21 Guage Solder, 3.3% Flux, .031" (0.79mm) dia	KE1123-ND	56.15	50.54	44.92
23 Guage Solder, 3.3% Flux, .025" (0.64mm) dia	KE1122-ND	57.25	51.53	45.80
25 Guage Solder, 3.3% Flux, .020" (0.51mm) dia	KE1121-ND	67.28	60.55	53.82

"245" No-Clean Solders

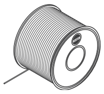

Kester "245" Low Residue Solder was developed to complement the newer generations of Low Residue Fluxes being used in the electronics industry. The use of "245" Low Residue Flux results in visually acceptable assemblies without the need for cleaning. Soldering quality and efficiency is comparable to that of a RMA flux. 1.1% flux standard, 2.2% and 3.3% for faster wetting action. Cream label.

Description	Digi-Key Part No.	Price Each 1	5	10
No Clean Solder "245", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 1.1% Flux, .062" (1.57mm) dia.	KE1399-ND	24.63	22.17	19.70
18 Gauge Solder, 1.1% Flux, .050" (1.27mm) dia.	KE1402-ND	25.38	22.84	20.30
19 Gauge Solder, 1.1% Flux, .040" (1.02mm) dia.	KE1403-ND	27.63	24.87	22.10
21 Gauge Solder, 1.1% Flux, .031" (.79mm) dia.	KE1400-ND	29.13	26.22	23.30
23 Gauge Solder, 1.1% Flux, .025" (.63mm) dia.	KE1404-ND	30.23	27.21	24.18
25 Gauge Solder, 1.1% Flux, .020" (.51mm) dia.	KE1401-ND	40.25	36.23	32.20
28 Gauge Solder, 1.1% Flux, .015" (.38mm) dia.	KE1405-ND	47.13	42.42	37.70
No-Clean Solder "245", 63/37 1 Lb. (.45 kg) Spool				
21 Gauge Solder, 2.2% Flux, .031" (.79mm) dia.	KE1408-ND	29.13	26.22	23.30
25 Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1409-ND	40.25	36.23	32.20
No-Clean Solder "245", 63/37 1 Lb. (.45 kg) Spool				
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1410-ND	29.13	26.22	23.30

"275" No-Clean Lead-Free Solder

Kester "275" No-Clean Flux for cored solder wire was developed to provide superior wetting performance for hand soldering in the electronics industry. The use of "275" No-Clean Flux results in an extremely clear post-soldering residue without cleaning. The unique chemistry in Kester "275" was also designed to reduce spattering common to most core fluxes. Kester "275 is Classified as ROL0 per J-STD-004.

Description	Digi-Key Part No.	Price Each 1	5	10
Sn96.5Ag3.0Cu0.5, 1 Lb Spool				
16 Gauge Solder, 2.2% Flux, .062" (1.57mm) dia.	KE1134-ND	51.65	46.49	41.32
18 Gauge Solder, 2.2% Flux, .050" (1.27mm) dia.	KE1133-ND	52.40	47.16	41.92
21 Guage Solder, 2.2% Flux, .031" (0.79mm) dia	KE1137-ND	56.15	50.54	44.92
23 Gauge Solder, 2.2% Flux, .025" (0.64.mm) dia.	KE1132-ND	57.25	51.53	45.80
25 Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1131-ND	67.28	60.55	53.82

"285" RMA Solders

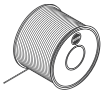

Kester "285" has been developed for the use in the electronics industry where difficult assemblies are to be soldered, but process requirements stipulate use of a mildly activated rosin flux. Kester "285" mildly activated rosin flux is classified as Type ROL1 flux under IPC ANSI/J-STD-004 Standards. Green Label.

Description	Digi-Key Part No.	Price Each 1	5	10
RMA Solder "285", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 2.2% Flux, .062" (1.57mm) dia.	KE1199-ND	24.63	22.17	19.70
21 Gauge Solder, 2.2% Flux, .031" (.79mm) dia.	KE1200-ND	29.13	26.22	23.30
25 Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1201-ND	40.25	36.23	32.20
28 Gauge Solder, 2.2% Flux, .015" (.38mm) dia.	KE1203-ND	47.13	42.42	37.70

"331" Organic Water Soluble Solder

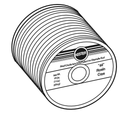

Kester "331" Organic Flux is a water soluble formula for use in flux-cored solder wire. Kester "331" flux is more effective than rosin fluxes in soldering difficult metals and allows a simple water wash for flux cleanup. The flux is more heat stable than most organic fluxes, resulting in minimal smoke and odor. The residue can be completely removed with a simple water rinse. Kester "331" is classified as type ORH1 per IPC ANSI/J-STD-004. Red Label.

Description	Digi-Key Part No.	Price Each 1	5	10
Water Soluble Solder "331", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1299-ND	24.63	22.17	19.70
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1300-ND	28.50	25.65	22.80
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1302-ND	30.23	27.21	24.18
25 Gauge Solder, 3.3% Flux, .020" (.51mm) dia.	KE1301-ND	40.25	36.23	32.20
28 Gauge Solder, 3.3% Flux, .015" (.38mm) dia.	KE1303-ND	47.13	42.42	37.70
Water Soluble Solder "331", 60/40, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1304-ND	24.63	22.17	19.70
21 Gauge Solder, 3.3% Flux, .031 (.79mm) dia.	KE1305-ND	29.13	26.22	23.30

"331" Organic Water Soluble Lead-Free Solder

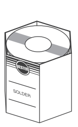

Kester "331" Organic Flux is a water soluble formula for use in flux-cored solder wire. The flux is more heat stable than most organic fluxes, resulting in minimal smoke and odor. The residue can be completely removed with a simple water rinse. Kester "331" is classified as ORH1 per J-STD-004.

Description	Digi-Key Part No.	Price Each 1	5	10
Sn96.5Ag3.0Cu0.5, 1 Lb Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1130-ND	51.65	46.49	41.32
18 Guage Solder, 3.3% Flux, .050" (1.27mm) dia	KE1129-ND	52.40	47.16	41.92
21 Guage Solder, 3.3% Flux, .031" (0.79mm) dia	KE1128-ND	56.15	50.54	44.92
23 Guage Solder, 3.3% Flux, .025" (0.64mm) dia	KE1127-ND	57.25	51.53	45.80
25 Guage Solder, 3.3% Flux, .020" (0.51mm) dia	KE1126-ND	67.28	60.55	53.82

Specialty Solders and Accessories

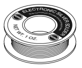

Description	Digi-Key Part No.	Price Each 1	5	10
Solid Wire Solder (No Flux), 1 Lb. (.45 kg) Spool				
16 Gauge Solder 63/37, .062" (1.57mm) dia.	KE1603-ND	24.63	22.17	19.70
21 Gauge Solder 63/37, .031" (.79mm) dia.	KE1606-ND	29.13	26.22	23.30
21 Gauge Solder 60/40, .031" (.79mm) dia.	KE1604-ND	28.50	25.65	22.80
25 Gauge Solder 60/40, .020" (.51mm) dia.	KE1605-ND	39.63	35.67	31.70
Bar Solder				
Lead Free Sn96.5Ag3.0Cu0.5, 1.6 Lbs. (.73 kg)	KE1135-ND◆	79.30	71.37	63.44
Oxide Free Solder (E-Bar), 63/37, 1.66 Lb. (.45 kg).	KE1600-ND	26.28	23.65	21.02
Oxide Free Solder (E-Bar), 60/40, 1.66 Lb. (.45 kg)	KE1601-ND	25.35	22.82	20.28
Premium Oxide Free Solder (Ultrapure), 63/37, 1.66 Lbs. (.45 kg)	KE1602-ND	26.48	23.83	21.18

◆ ***RoHS Compliant***

Solder Paste

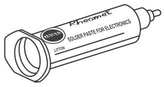

Kester solder paste was developed for applications of surface mount PCBs and components. All pastes are SN63/PB37 with a mesh size of -325 to +500 (25 to 40 microns) and come in 35gm syringes for hand dispensing. R276 No-Clean formulation provides optimal performance in all types of dispensing applications. Designed for reflow practices that don't require cleaning of the PCB. R500 Water Soluble solder paste is aggressive enough to remove tenacious oxide layers and offers excellent wetting characteristics.

Pastes should be refrigerated to preserve their usable life.

Note: To ensure customer satisfaction and product integrity, pastes must be shipped overnight or 2nd Day Air only. Tips are not included.

Description	Digi-Key Part No.	Price Each 1	5	10
Plunger for 35gm Syringe	KE1505-ND	1.10	.99	.88
No-Clean Paste, 35gm Syringe (R276)	KE1507-ND	56.70	51.03	45.36
Water Soluble Paste, 35gm Syringe (R500)	KE1512-ND	56.70	51.03	45.36

Paste Flux and Liquid Flux Pens

Flux - Pen

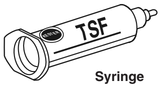

Syringe

Kester flux pens use a spring-loaded tip to dispense just the right amount of flux while preventing the flux inside from drying out. Tacky Solder Flux is a No-Clean paste flux that maintains its characteristics for up to 8 hours after dispensing and can be used in a wide range of temperature and humidity conditions. Can reflow in both air and nitrogen environments. SP244 is a mildly activated rosin paste flux designed to be used as a No-Clean formula for rework applications.

Description	Digi-Key Part No.	Price Each 1	5	10
Flux Pen - Formula 186 RMA (10mL)	KE1803-ND	4.38	3.94	3.50
Flux Pen - Formula 951 No-Clean (10mL)	KE1804-ND	4.38	3.94	3.50
Flux Pen 2331-ZX Water-Soluble (10mL)	KE1808-ND	4.38	3.94	3.50
Tacky Solder Flux No-Clean, 30gm Syringe	KE1807-ND	57.75	51.98	46.20

Plastic Dispensing Tips

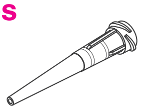

Features:

- Plastic material won't scratch delicate surfaces
- Taper reduces dripping from needle
- **Length:** 1½ inches

Qty.	Gauge	Color	Inside Diameter Inch (mm)	Digi-Key Part No.	Price Each
25 per pkg.	16	Grey	.048 (1.22)	KDS16TN25-ND	8.04
	18	Green	.034 (.86)	KDS18TN25-ND	8.04
	20	Pink	.024 (.61)	KDS20TN25-ND	8.04
	22	Blue	.019 (.48)	KDS22TN25-ND	8.04

Variable AC Transformers

Cased plug-in models feature a ventilated steel case, input line cord and plug, fused NEMA rated output receptacle, and an illuminated on/off switch. They are connected for output voltage increase with a clockwise rotation, and the dials are graduated from 0-100% of the voltage setting.

Fig. 1

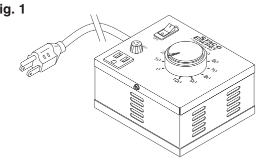

Fig. 2

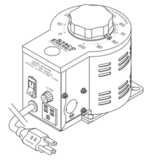

Fig.	Digi-Key Part No.	Input Voltage	Input Frequency (Hz)	Output Voltage	Output Constant Current Load Max. (A)	Output Constant Current Load Max. (KVA)	Net Weight (Lbs.)
1	452-1000-ND	120	60	0-132	2.5	.33	5
	452-1001-ND	120	50/60	0-140	5.0*	.70	7
2	452-1003-ND	120	50/60	0-140	10*	1.4	10 1/4
	452-1004-ND†	120	50/60	0-140	10*	1.4	10 1/4
	452-1005-ND	240	50/60	0-280	3.5*	.98	10 1/4

* Unit is fused for the constant current rating at the factory. † With Voltmeter

Digi-Key Part No.	Price Each 1	5	10	15	Staco Part No.
452-1000-ND	241.20	225.12	217.08	209.04	3PN221B
452-1001-ND	260.10	242.76	234.09	225.42	3PN501B
452-1003-ND	276.30	257.88	248.67	239.46	3PN1010B
452-1004-ND	463.50	432.60	417.15	401.70	3PN1010BV
452-1005-ND	331.20	309.12	298.08	287.04	3PN1020B

Desoldering Braid

25% cleaner than most major brands (leaving less residue on the desoldered connection). Meets the requirements of Mil-F-14256F Type R (Quick Braid only), Mil STD. 2000 and in compliance with DOD Standard 1686. Also meets the requirements of Bellcore spec. TR-TSY-000078 and Ipc Test Method III. Easy Braid numbers ending in AS are antistatic bobbins.

Width Inch (mm)	Length Ft. (Meter)	Label Color	Digi-Key Part No.	Price Each 1	25	Easy Braid Part No.
			Quick Braid			
.025 (.64)	5 (1.52)	Silver	EB1084-ND	2.33	1.98	Q-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1087-ND	2.33	1.98	Q-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1090-ND	2.40	2.04	Q-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1093-ND	2.80	2.38	Q-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1096-ND	2.80	2.38	Q-E-5AS
.025 (.64)	10 (3.04)	Silver	EB1085-ND	3.90	3.32	Q-A-10AS
.050 (1.27)	10 (3.04)	Gold	EB1088-ND	3.90	3.32	Q-B-10AS
.075 (1.91)	10 (3.04)	Green	EB1091-ND	4.00	3.40	Q-C-10AS
.100 (2.54)	10 (3.04)	Blue	EB1094-ND	4.42	3.76	Q-D-10AS
.125 (3.18)	10 (3.04)	Brown	EB1097-ND	4.70	4.00	Q-E-10AS
.025 (.64)	25 (7.62)	Silver	EB1021-ND	10.15	8.64	Q-A-25
.050 (1.27)	25 (7.62)	Gold	EB1023-ND	10.15	8.64	Q-B-25
.075 (1.91)	25 (7.62)	Green	EB1025-ND	10.41	8.86	Q-C-25
.100 (2.54)	25 (7.62)	Blue	EB1027-ND	12.29	10.46	Q-D-25
.125 (3.18)	25 (7.62)	Brown	EB1029-ND	12.55	10.68	Q-E-25
.025 (.64)	100 (30.48)	Silver	EB1086-ND	35.84	30.50	Q-A-100
.050 (1.27)	100 (30.48)	Gold	EB1089-ND	35.84	30.50	Q-B-100
.075 (1.91)	100 (30.48)	Green	EB1092-ND	36.94	31.44	Q-C-100
.100 (2.54)	100 (30.48)	Blue	EB1095-ND	40.91	34.82	Q-D-100
.125 (3.18)	100 (30.48)	Brown	EB1098-ND	46.01	39.16	Q-E-100
			One Step (RMA No-Clean)			
.025 (.64)	5 (1.52)	Silver	EB1099-ND	2.73	2.32	OS-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1102-ND	2.73	2.32	OS-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1105-ND	2.80	2.38	OS-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1108-ND	3.22	2.74	OS-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1111-ND	3.71	3.16	OS-E-5AS
.025 (.64)	25 (7.62)	Silver	EB1051-ND	12.27	10.44	OS-A-25
.050 (1.27)	25 (7.62)	Gold	EB1053-ND	12.27	10.44	OS-B-25
.075 (1.91)	25 (7.62)	Green	EB1055-ND	12.64	10.76	OS-C-25
.100 (2.54)	25 (7.62)	Blue	EB1057-ND	14.10	12.00	OS-D-25
.125 (7.62)	25 (7.62)	Brown	EB1059-ND	16.12	13.72	OS-E-25
.025 (.64)	100 (30.48)	Silver	EB1101-ND	46.27	39.38	OS-A-100
.050 (1.27)	100 (30.48)	Gold	EB1104-ND	46.27	39.38	OS-B-100
.075 (1.91)	100 (30.48)	Green	EB1107-ND	47.73	40.62	OS-C-100
.100 (2.54)	100 (30.48)	Blue	EB1110-ND	53.32	45.38	OS-D-100
.125 (3.18)	100 (30.48)	Brown	EB1113-ND	61.38	52.24	OS-E-100
.025 (.64)	10 (3.04)	Silver	EB1100-ND	4.44	3.78	OS-A-10AS
.050 (1.27)	10 (3.04)	Gold	EB1103-ND	4.44	3.78	OS-B-10AS
.075 (1.91)	10 (3.04)	Green	EB1106-ND	4.56	3.88	OS-C-10AS
.100 (2.54)	10 (3.04)	Blue	EB1109-ND	5.10	4.34	OS-D-10AS
.125 (3.18)	10 (3.04)	Brown	EB1112-ND	5.59	4.76	OS-E-10AS
			One Step Lead-Free (RMA No-Clean) — RoHS Compliant			
.025 (.64)	5 (1.52)	Silver	EB1188-ND	3.53	3.00	LF-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1189-ND	3.53	3.00	LF-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1190-ND	3.71	3.16	LF-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1191-ND	4.18	3.56	LF-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1192-ND	4.89	4.16	LF-E-5AS
.025 (.64)	10 (3.04)	Silver	EB1193-ND	5.73	4.88	LF-A-10AS
.050 (1.27)	10 (3.04)	Gold	EB1194-ND	5.73	4.88	LF-B-10AS
.075 (1.91)	10 (3.04)	Green	EB1195-ND	5.88	5.00	LF-C-10AS
.100 (2.54)	10 (3.04)	Blue	EB1196-ND	6.53	5.56	LF-D-10AS
.125 (3.18)	10 (3.04)	Brown	EB1197-ND	7.19	6.12	LF-E-10AS
			SEA BRAID (unfluxed)			
.025 (.64)	5 (1.52)	Silver	EB1170-ND	2.33	1.98	S-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1173-ND	2.33	1.98	S-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1176-ND	2.40	2.04	S-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1179-ND	2.66	2.26	S-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1182-ND	2.80	2.38	S-E-5AS
.025 (.64)	10 (3.04)	Silver	EB1171-ND	3.90	3.32	S-A-10AS
.050 (1.27)	10 (3.04)	Gold	EB1174-ND	3.90	3.32	S-B-10AS
.075 (1.91)	10 (3.04)	Green	EB1177-ND	4.00	3.40	S-C-10AS
.100 (2.54)	10 (3.04)	Blue	EB1180-ND	4.42	3.76	S-D-10AS
.125 (3.18)	10 (3.04)	Brown	EB1183-ND	4.70	4.00	S-E-10AS
.025 (.64)	100 (30.48)	Silver	EB1172-ND	35.84	30.50	S-A-100
.050 (1.27)	100 (30.48)	Gold	EB1175-ND	35.84	30.50	S-B-100
.075 (1.91)	100 (30.48)	Green	EB1178-ND	36.94	31.44	S-C-100
.100 (2.54)	100 (30.48)	Blue	EB1181-ND	40.91	34.82	S-D-100
.125 (3.18)	100 (30.48)	Brown	EB1184-ND	46.01	39.16	S-E-100

Solder Sponges

Type	Size (Inch)	Replacements	Digi-Key Part No.	Price Each 1	25	50
One Hole	1.2 x 2.7	OK Ind. 45803S	EB1001-ND	.95	.81	.73
One Hole	1.55 x 2.55	Ungar 9901	EB1002-ND	.99	.84	.76
Slits	2 x 2.6	Weller MP	EB1003-ND	1.12	.96	.86
One Hole	2.2 x 3.5	Weller DS-100; EC-1000; EC-2000	EB1004-ND	1.33	1.14	1.03
Multiple Holes	2.6 x 2.6	Weller WTCP; EC-3000; EC-4000; TC205	EB1005-ND	1.33	1.14	1.03
One Hole	2.4 x 3.2	EDSYN Models	EB1010-ND	1.33	1.14	1.03

FLUKE ®

Digital Multimeters

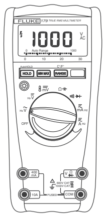
Fluke 179

Features: • IEC 1010 CAT IV 600V safety rating • 6000 count display • True-rms AC voltage and current • Minimum/Maximum/Average • Frequency and capacitance capabilities • Easy access battery door • Fluke 179 measures temperature in °C and °F • Backlight (Fluke 177 and 179) • Lifetime warranty

Specifications: • AC Amps: 0.01mA ~ 10.00A • DC Amps: 0.01mA ~ 10.00A • AC Voltage: 0.1mV ~ 1000V • DC Voltage: 0.1mV ~ 1000V • Resistance: 0.1Ω ~ 50.00MΩ • Capacitance: 1nF ~ 9999μF • Frequency: 0.01Hz ~ 100kHz • Temperature (Fluke 179 only): -40°C ~ 400°C; -40°F ~ 752°F

Includes: • Installed 9V battery • Test leads • User's manual • 80BK-A Temperature Probe (Fluke 179 only)

Digi-Key Part No.	Price Each	Fluke Part No.
614-1019-ND	229.95	FLUKE-175 ESFP
614-1020-ND	239.95	FLUKE-177 ESFP
614-1021-ND	249.95	FLUKE-179 ESFP

Electronics Combo Kit

Includes: • Fluke 179 True-rms Digital Multimeter with backlight • Fluke TL224 Silicone Test Leads • Fluke TL910 Electronic Test Probes with Replacement Tips • Fluke AC280 Heavy Duty Hook Clips • Fluke 80BK-A Integrated Temperature Probe • C35 Lightweight Soft Carrying Case

614-1023-ND (FLUKE-179/EDA2) **$279.95**

Electrician's Combo Kit

Includes: • Fluke 179 True-rms Digital Multimeter • Fluke 1AC-II Volt Alert Non-Contact Voltage Tester • Fluke 80BK-A K-type Temperature Probe • Fluke AC220 Retractable Long Reach Alligator Clips • Fluke TP220 Sharp 12mm stainless steel tip provides reliable contact • Fluke TL224 1.5m silicone leads resist heat • Fluke TPAK TookPak meter hanging accessory to hold meter to steel surfaces • Fluke C35 Lightweight soft case to provide optimal protection and storage

614-1022-ND (FLUKE-179/1AC-II) **$279.95**

True-rms Electrical Multimeters

Fluke 114

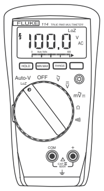
Fluke 114

Features: • Measures up to 600V AC and DC • AutoVolt: automatic AC/DC voltage selection • LoZ: Low input impedance prevents false readings due to "ghost" voltage • Large white LED backlight to work in poorly lit areas • Resistance and continuity • Minimum/Maximum/Average to record signal fluctuations • CAT III 600V safety rated

Includes: • TL75 test leads • Holster • User's manual • 9V battery installed

614-1009-ND (FLUKE-114) **$129.95**

Fluke 115

Features: • Measures up to 600V AC and DC • Resistance, continuity, frequency, capacitance and diode test • Measures 10A • Large white LED backlight to work in poorly lit areas • 10A current measurement • Minimum/Maximum/Average with elapsed time to record signal fluctuations • CAT III 600V safety rated

Includes: • TL75 test leads • Holster • User's manual • 9V battery installed

614-1010-ND (FLUKE-115) **$149.95**

Fluke 117

Features: • Measures up to 600V AC and DC • VoltAlert™ technology for non-contact voltage detection • LoZ: Low input impedance prevents false readings due to "ghost" voltage • AutoVolt automatic AC/DC voltage selection • Large white LED backlight to work in poorly lit areas • 10A current measurement • Resistance, continuity, frequency, and capacitance • Minimum/Maximum/Average to record signal fluctuations • CAT III 600V safety rated

Includes: • TL75 test leads • Holster • User's manual • 9V battery installed

614-1011-ND (FLUKE-117) **$179.95**

True-rms Multimeters with TrendCapture

Fluke 287 Electronic Logging Meter

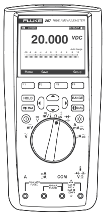
Fluke 287

Features: • 50,000 count, 320 x 240 Dot matrix display with white backlight • 0.025% Basic DC accuracy • Logging function with TrendCapture • Optical USB PC communication interface • Field upgradable and expandable • i-info button • Internal memory allows stand-alone logging for up to 180 hours • Multi-lingual interface • True-rms AC voltage and current for accurate measurements on complex signals or non-linear loads. 100kHz AC bandwidth specified • Current measurement 20A (30 seconds momentary; 10A continuous) • Peak capture to record transients as fast as 250μs • Continuity/Conductance/Capacitance • Resistance and continuity • CAT III 1000V/CAT IV 600V safety rated • Limited lifetime warranty

614-1061-ND (FLUKE-287) **$499.95**

TLK287 Electronics Master Test Lead Set

Features: • Precision electronic probes with multiple spring-loaded sharp tips maximize contact with SMD test points • Micro-grabbers and leads necessary for fine SMD test • Mini-alligator clips, grabbers and probes • Both modular test leads and lead-probe combinations

614-1064-ND (TLK287) ***RoHS Compliant*** **$114.95**

Fluke 289 Industrial Logging Meter

Features: • 50,000 count, 320 x 240 Dot matrix display with white backlight • 0.025% Basic DC accuracy • Logging function with TrendCapture • Optical USB PC communication interface • Field upgradable and expandable • i-info button • Internal memory allows stand-alone logging for up to 180 hours • Multi-lingual interface • True-rms AC voltage and current for accurate measurements on complex signals or non-linear loads, 100kHz AC bandwidth specified • Current measurement 20A (30 seconds momentary; 10A continuous) • Peak capture to record transients as fast as 250μs • Continuity/Conductance/Capacitance • Resistance and continuity • LoZ Volts: Low input impedance prevents false reading due to "ghost" voltage • Low Pass Filter for accurate voltage and frequency measurements on adjustable speed motor drives • 50Ω range with 1 milliohm resolution, for measuring motor winding and making low ohm measurement • CAT III 1000V/CAT IV safety rated • Limited lifetime warranty

614-1062-ND (FLUKE-289) **$529.95**

Fluke 289/FVF

Includes: • Fluke-289 True-rms Industrial Logging Multimeter with TrendCapture • FlukeView Forms Software and cable • 80BK-A thermocouple • TL 71 Silicon Test Lead Set • AC72 Alligator Clips • TPAK Magnetic Meter Hanger for hands-free operation • C280 Soft case for meter protection and accessory storage

614-1063-ND (FLUKE-289/FVF).. **$599.95**

TLK289 Industrial Master Test Lead Set

Includes: • SureGrip™ alligator clips, grabbers, hook clips and industrial test probes • Magnetic hanger • Temperature adapter with K-Type thermocouple • C116 Soft case with moveable divider • Recommended for use with Fluke 87V, 116, 179, 187, 189, 287, 289, 1587 DMMs

614-1065-ND (TLK289) ***RoHS Compliant*** **$114.95**

FVF-SC2

FlukeView Forms Software and cable.

614-1067-ND (FVF-SC2) ***RoHS Compliant***... **$172.94**

Insulation Resistance Testers and Multimeters

RoHS COMPLIANT

Fluke 1507/1503 Insulation Resistance Testers

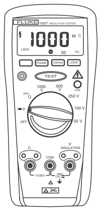
Fluke 1507

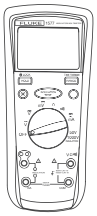
Fluke 1577

Features: • Live circuit detection prevents insulation test if voltage >30V is detected for added user protection • Auto-discharge of capacitive voltage for added user protection • Save battery power with auto power off • Read measurements easily with large, backlit display • CAT IV 600V overvoltage category rating for added user protection • 1 year warranty

Specifications: • Resistance: 0.1Ω ~ 20.00kΩ • AC/DC voltage: 0.1V ~ 600V

Includes: • Remote probe • Test leads • Probes • Alligator clips

Fluke 1587/1577 Insulation Multimeters

Features: • Large display with backlight • Live circuit detection prevents insulation test if voltage >30V is detected for added user protection • Auto-discharge of capacitive voltage for added user protection • AC/DC voltage, DC millivolts, AC/DC milliamps, Resistance (Ω), Continuity • Filter for motor drive measurements (Fluke 1587 only) • Capacitance, Diode test, Temperature, Minimum/Maximum, Frequency (Hz) (Fluke 1587 only) • Auto power off to save battery power • CAT III 1000V, CAT IV 600V measurement category • 3 year warranty

Includes: • Remote probe • Test leads • Probes • Alligator clips • K-type thermocouple (Fluke 1587 only)

Insulation Test Range	Insulation Test Voltages	Digi-Key Part No.	Price Each	Fluke Part No.
0.01MΩ ~ 10GΩ	50V, 100V, 250V, 500V, 1000V	614-1013-ND	427.94	FLUKE-1507
0.1MΩ ~ 2000MΩ	500V, 1000V	614-1012-ND	324.94	FLUKE-1503
0.01MΩ ~ 2GΩ	50V, 100V, 250V, 500V, 1000V	614-1016-ND	587.00	FLUKE-1587
0.1MΩ ~ 600MΩ	500V, 1000V	614-1015-ND	473.94	FLUKE-1577

Fluke 1587/ET Advanced Electrical Troubleshooting Kit

Applications: • Use the Fluke 1587 to perform insulation tests plus a wide range of DMM tasks with confidence and ease • Use the Fluke i400 with the Fluke 1587 to accurately measure AC current without breaking the circuit • Check for hot spots and measure temperature with the Fluke 62 Mini non-contact thermometer

Includes: • Fluke 62 Mini Infrared Thermometer • Fluke i400 Current Clamp • Fluke 1587 Insulation Multimeter

614-1017-ND (FLUKE-1587 ET)............... **$749.94**

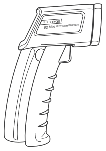
Fluke 62

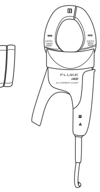
Fluke i400

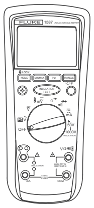
Fluke 1587

Fluke 1587/MDT Advanced Motor and Drive Troubleshooting Kit

Applications: • Use the Fluke 1587 to perform insulation tests plus a wide range of DMM tasks with confidence and ease • Use the Fluke i400 with the Fluke 1587 to accurately measure AC current without breaking the circuit • Check the rotation of three-phase motors easily and safely with the Fluke 9040

Includes: • Fluke 9040 Phase Rotation Indicator • Fluke i400 Current Clamp • Fluke 1587 Insulation Multimeter

614-1018-ND (FLUKE-1587 MDT)............... **$837.00**

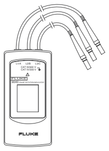
Fluke 9040

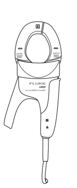
Fluke i400

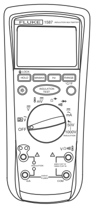
Fluke 1587

True-RMS Multimeter with Temperature

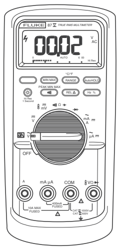

Features:

• True-rms AC voltage and current measurements • 4½ digit mode for precise measurements • Large display digits and two-level bright white backlight for increased visibility • 10,000μF capacitance range • Measures up to 1000V AC and DC • Measures up to 10A, 20A for up to 30 seconds • Resistance, continuity and diode test • Frequency to 200kHz and % duty cycle • Minimum/Maximum/Average recording • Low Pass Filter for accurate voltage and frequency measurements on adjustable speed motor drives • Limited lifetime warranty • CAT IV 600V and CAT III 1000V electrical safety ratings

Includes:

• TL75 Test Leads • AC72 alligator clips • Holster • 9V battery installed • Temperature probe • CD-ROM User's manual

614-1042-ND (FLUKE-87-5) **$369.95**

Industrial Electrician Combo Kit

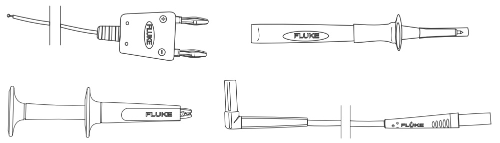

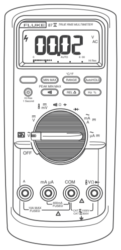

Includes:

• Fluke 87V True-rms multimeter • AC220 SureGrip™ alligator clip set • C35 Lightweight soft accessory case • TL224 SureGrip silicone test lead set • 80BK-A Integrated DMM probe, type K • TP38 SureGrip Test lead set and probe set • TPAK Magnetic hanger

614-1043-ND (FLUKE-87-5/E2 KIT) **$419.95**

Fluke 8808A 5.5 Digit Multimeters

Features:

• 5.5 Digit Resolution • Dual Display • Measures V DC/AC, I DC/AC, ohms, frequency, continuity, diode • Basic V DC accuracy of up to 0.015% • Minimum, Maximum, Relative, dB, dBm • 2x4 wire ohm measurement technique • Dedicated DC leakage current ranges • Six dedicated buttons for fast access to instrument setups • Hi/Lo limit compare for Pass/Fail testing • RS-232 interface

8808A/SU Includes:

• Fluke 8808A package • FlukeView Forms basic software • USB to RS-232 interface adapter cable

614-1068-ND	5.5 Digit Multimeter (8808A 120V)	**$745.00**
614-1069-ND	5.5 Digit Multimeter, SW USB Cable Kit (8808A/SU 120V)	**$945.00**

Fluke 8845A/8846A, 6.5 Digit Precision Multimeters

Features:

• 6.5 digit resolution • Basic VDC accuracy of up to 0.0024% • Dual display • 100μA ~ 10A current range, with up to 100pA resolution • Wide ohms range from 10Ω ~ 1GΩ with up to 10μΩ resolution • 2x4 wire ohm measurement technique • Measures frequency and period (Model 8846A also measures capacitance and temperature) • Graphical display • Trendplot™ paperless recorder mode, statistics and histogram • CAT I 1000V and CAT II 600V safety ratings

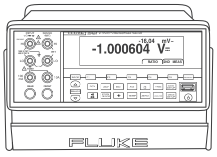

Fluke 8846A

614-1000-ND	6.5 Digit Precision Multimeter (8845A 120V)	**$995.00**
614-1001-ND	6.5 Digit Precision Multimeter, Software and Cable Included (8845A/SU 120V)	**$1195.00**
614-1002-ND	6.5 Digit Precision Multimeter, USB Memory (8846A 120V)	**$1395.00**
614-1003-ND	6.5 Digit Precision Multimeter, USB Memory, Software and Cable Included (8846A/SU 120V)	**$1595.00**
614-1004-ND	100Ω RTD Temperature Probe (884X-RTD)	**$500.00**
614-1057-ND	Single Rack Mount Kit (Y8846S)	**$95.00**
614-1056-ND	Dual Rack Mount Kit (Y8846D)	**$125.00**
614-1005-ND	USB to RS232 Cable Adapter (884X-USB)	**$150.00**
614-1053-ND	2x4 Wire Ohm Test Lead Probe (TL2X4W-PTII)	**$75.00**

NEW! Fluke 771/789 ProcessMeters™

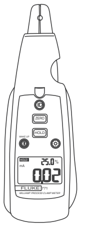

Fluke 771 - Measure 4 ~ 20mA signals without breaking the loop with this new, compact clamp meter for PLC and control systems analog I/O. The detachable clamp with extension cable allows you to take measurements in tight locations, and the built-in spot light illuminates hard to see wires in dark enclosures. Count on best in class accuracy of 0.2%. Measure mA signals with 0.01mA resolution.

614-1074-ND **$449.00**

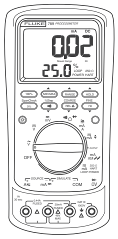

Fluke 789 - The ultimate loop calibration multimeter. The Fluke 789 has a 24-Volt loop supply reducing the need for taking a separate power supply when doing off-line transmitter testing. And with its built-in, selectable 250Ω Hart® resistor, it also eliminates the need to carry a separate resistor with you.

614-1075-ND **$795.00**

Clamp Meters

Model	Fluke 321	Fluke 322	Fluke 333	Fluke 334	Fluke 335	Fluke 336	Fluke 337
AC Amps (A)	0 ~ 400	0 ~ 40 40 ~ 400	0 ~ 400	0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 999.9
AC Response	Averaging	Averaging	Averaging	Averaging	True-rms	True-rms	True-rms
DC Amps (A)	—	—	—	—	—	0 ~ 600	0 ~ 999.9
AC Voltage (V)	0 ~ 400 0 ~ 600	0 ~ 400 0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 600	0~600
DC Voltage (V)	—	0 ~ 400 0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 600
Resistance (Ω)	0 ~ 400	0 ~ 400	0 ~ 600	0 ~ 600 601 ~ 6000	0 ~ 600 601 ~ 6000	0 ~ 600 601 ~ 6000	0 ~ 600 601 ~ 6000
Frequency (Hz)	—	—	—	—	—	—	5 ~ 400
Min/Max Record	No	No	No	No	No	No	Yes
Backlight	No	No	No	No	Yes	Yes	Yes
Auto Shut-Off	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Inrush Mode	No	No	No	Yes	Yes	Yes	Yes
Safety Rating	600V CATIII	600V CATIII	600V CATIII	600V CATIII	600V CATIII	600V CATIII	600V CATIII
Warranty	2 year	2 year	3 Years	3 Years	3 Years	3 Years	3 Years

Digi-Key Part No.	Price Each	Fluke Part No.
614-1026-ND	102.95	FLUKE-321
614-1027-ND	111.95	FLUKE-322
614-1028-ND	146.95	FLUKE-333A
614-1029-ND	166.95	FLUKE-334A
614-1030-ND	222.95	FLUKE-335A
614-1031-ND	304.95	FLUKE-336A
614-1032-ND	354.95	FLUKE-337A

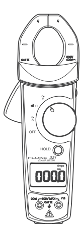

Fluke 321

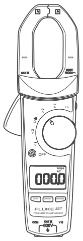

Fluke 337

Fluke 50 Series II Thermometers

Fluke 50 Series II

Fluke 53 II

Features:

• Relative time clock on MIN, MAX, and AVG provides a time reference for major events • Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy • Measures J, K, T and E-types of thermocouples • Readout in °C, °F or Kelvin (K) • Sleep mode increases battery life; 1000-hour battery life • 3 year warranty

Fluke 53 Series II and 54 Series II

Features:

• Time of day clock on MIN, MAX, and AVG provides a time reference for major events • Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy • Measures J, K, T, E, N, R, and S-types of thermocouples • Readout in °C, °F, or Kelvin (K) • Sleep mode increases battery life; 1000-hour battery life • 3 year warranty • Large backlit dual display shows any combination of T1, T2 (52 and 54 only), T1-T2 (52 and 54 only), plus MIN, MAX, or AVG • Log up to 500 data points to internal memory • Recall function allows logged data to be easily reviewed on the meter display • Data can be exported to optional FlukeView Forms® Temperature PC software for further analysis and graphing

Digi-Key Part No.	Price Each	Fluke Part No.
614-1033-ND	215.00	FLUKE-51-2 60HZ
614-1034-ND	259.00	FLUKE-52-2 60HZ
614-1035-ND	305.00	FLUKE-53-2 60HZ
614-1036-ND	355.00	FLUKE-54-2 60HZ

Fluke 60 Series Handheld Infrared Thermometers

Model	Fluke 62	Fluke 63	Fluke 66	Fluke 68
Backlit Display	Yes	Yes	Yes	Yes
Temperature	-30°C ~ 500°C -20°F ~ 932°F	-32°C ~ 545°C -25°F ~ 999°F	-32°C ~ 600°C -25°F ~ 1100°F	-32°C ~ 760°C -25°F ~ 1400°F
MIN/MAX/AVG	MAX	MAX	All	All
Datalogging	N/A	N/A	Yes	Yes
Distance to Spot Ratio	10:1 at 80% energy	12:1	30:1	50:1
Optional RTD Probe	N/A	N/A	Yes	Yes
Emissivity	Fixed at 0.95	Fixed at 0.95	Digitally adjustable (from 0.1 ~ 1.0 by 0.01)	Digitally adjustable (from 0.1 ~ 1.0 by 0.01)

Digi-Key Part No.	Price Each	Fluke Part No.
614-1038-ND	99.51	FLUKE-62
614-1039-ND	225.00	FLUKE-63
614-1040-ND	425.00	FLUKE-66
614-1041-ND	539.00	FLUKE-68

Fluke 62

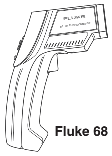

Fluke 68

FLUKE ®

Multipurpose Thermometers

Fluke 561

Applications:
- Multipurpose thermometer for heating, ventilation, air conditioning and refrigeration inspections

Specifications:
- Temperature: -40°C ~ 550°C (-40°F ~ 1022°F)
- Distance to Spot Size: 12:1
- Easy Emissivity Selector: Adjustable with three settings; Low (0.3), Medium (0.7), High (0.95)
- Laser Sighting: Single Point Laser

Includes:
- K-type thermocouple velcro pipe probe
- Durable hard case
- 2 AA batteries
- User's manual
- 2 year warranty

614-1037-ND (FLUKE-561) ***RoHS Compliant*** **$149.51**

NEW! Fluke 566

Applications:
- Electrical, mechanical, plant, diesel and HVAC

Specifications:
- Temperature: -40°C ~ 650°C (-40°F ~ 1200°F)
- Distance to Spot Size: 30:01:00

Includes:
- 2 AA batteries
- Durable hard case
- 2 year warranty

614-1072-ND (FLUKE-566) **$379.00**

NEW! Fluke 568

Applications:
- Electrical, mechanical, plant, diesel and HVAC

Specifications:
- Temperature: -40°C ~ 800°C (-40°F ~ 1470°F)
- Distance to Spot Size: 50:01:00

Includes:
- 2 AA batteries
- Durable hard case
- 2 year warranty

614-1073-ND (FLUKE-568) **$499.99**

Test Equipment and Accessories

T+ and T+PRO Electrical Testers

T+PRO

Includes:
- Three ways to detect AC/DC voltage: Light, Sound, and Vibration
- 2 AAA alkaline batteries
- Extra heavy-duty test leads and probes (removable)
- Test lead strap for managing leads
- User's manual with safety information
- 2 year warranty

614-1047-ND 12V ~ 600V AC/DC
(T+) ***RoHS Compliant*** **$46.44**

614-1048-ND 10.2V ~ 600V AC/DC, 9.99kΩ Resistance
(T+PRO) ***RoHS Compliant.*** **$78.98**

T+PRO-1AC Combo Kit

Includes:
- T+PRO Electrical tester
- Fluke 1AC II VoltAlert™ voltage detector

614-1049-ND (T+PRO-1AC KIT) ***RoHS Compliant*** **$92.92**

Fluke T5 Voltage, Continuity and Current Testers

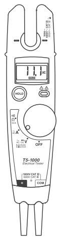

T5-1000

Features:
- Automatically measures volts AC and DC with precise digital resolution
- Displays resistance to 1000Ω
- Easy and accurate OpenJaw™ AC current measurement 100A
- Continuity beeper
- Auto off mode to conserve battery life
- 2 year warranty

614-1051-ND 600V AC/DC,
CAT III (T5-600 USA) **$99.95**

614-1050-ND 1000V AC/DC,
CAT III (T5-1000 USA)......... **$124.95**

Electrical Tester Kit

Includes:
- Fluke T5-1000 Electrical Tester • H5 Electrical Tester Holster
- Fluke 1AC II VoltAlert ™ voltage detector

614-1052-ND (T5-H5-1AC KIT/US) ***RoHS Compliant***....... **$155.26**

Fluke VoltAlert™

Fluke-1LAC-A-II

Fluke VoltAlert are CAT IV 1000V pocket-sized voltage detectors. When the tip glows red and the unit beeps, you know there's voltage present. Electricians, maintenance, service, safety personnel and homeowners can quickly test for energized circuits in the workplace or at home.

614-1024-ND ACV Detector 90~1000V, Flat-tip
(FLUKE-1AC-A1-II) ***RoHS Compliant*** **$25.25**

614-1025-ND Low Voltage Detector 20~90VAC, Round-tip
(FLUKE-1LAC-A-II) ***RoHS Compliant*** **$25.25**

614-1008-ND Volt Alert, 5-pack, Flat-tip
(FLK-1AC-A1-II-5PK) ***RoHS Compliant*** **$99.00**

LVD2 Volt Light

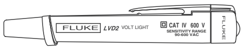

Non-contact AC voltage detector and LED flashlight combined into one easy to use pen-style design.

Features:
- Detects from 90V ~ 600V AC
- Rated to CAT IV 600V
- Blue indicates proximity to AC voltage source
- Red indicates you're at the source
- Ultra-bright white LED
- AAA battery included

614-1045-ND (LVD2)... **$30.85**

Fluke 1550B MegOhmMeter

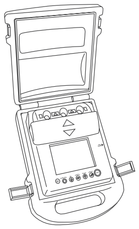

Features:
- Test voltages of 250V, 500V, 1000V, 2500V and 5000V
- Measures 0 ~ 1 TeraOhm
- Warning voltage function alerts the user that line voltage is present and gives the voltage reading up to 600V AC or DC
- Large digital/analog LCD shows detailed measurement data
- Cable or insulation capacitance
- Leakage current
- 99 memory locations store all measurement parameters
- Includes Quicklink 1550B software and optical interface cable
- 2 year warranty

Includes:
- Test leads and low leakage probes
- Alligator clips
- Interface adapter and cable
- FlukeView® Forms Basic 1550B PC software
- Line cord
- Soft carrying case with waterproof bottom
- User's manual CD with 12 languages
- Getting started guide

614-1014-ND (FLUKE-1550B) ***RoHS Compliant***.......... **$3350.00**

NEW! i30/i30S AC/DC Clamp

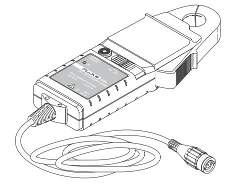

The i30 and i30S current clamps are based on Hall Effect technology for use in measurement of both DC and AC current. The i30 may be used in conjunction with multimeters, recorders, and other suitable recording instruments for accurate non-intrusive current measurement. The i30s may be used in conjunction with oscilloscopes and other suitable recording instruments for accurate non-intrusive current measurement.

Features:
- Maximum conductor size: 19mm diameter
- Current Range: 30 mA ~ 30 A DC, 30 mA ~ 20 A AC RMS
- Measuring Range: ±30A
- Accuracy (at 25°C): ±1% of reading ±2mA
- Frequency Range: DC to 20 kHz (i30); DC to 100 kHz (i30S)

614-1070-ND (i30)... **$346.46**

614-1071-ND (i30S) **$460.95**

i400 AC Current Clamp

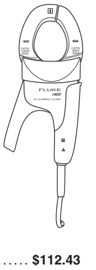

This clamp is compatible with most Fluke multimeters or any other current measurement device that accepts 4mm-shrouded banana plugs and has an AC milliamp range. The division ratio is 1000:1.

Features:
- Companion to your DMM to measure up to 400A AC
- 1mA/Amp output guarantees easy reading
- Only current clamp available with a CAT IV 600V/ CAT III 1000V safety rating
- Takes accurate current readings without breaking the circuit
- Soft non-slippery overmold handle prevents touching live wiring
- Maximum conductor diameter: 32mm

614-1044-ND (i400) **$112.43**

TL71 Premium Test Lead Set

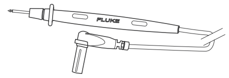

Features:
- One pair (red, black) comfort grip probes with silicone insulated, right-angle test leads
- CAT IV 600V, CAT III 1000V, 10A rating and UL Listed
- One year warranty

614-1054-ND (TL71) ***RoHS Compliant*** **$20.01**

NEW! Replacement Fuses

RoHS COMPLIANT

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each	Fluke Part No.
440mA	1000	614-1083-ND	5.95	943121
		614-1077-ND	21.75	203414
630mA	250	614-1079-ND	8.80	871173
1A	600	614-1080-ND	13.94	871207
11A	1000	614-1076-ND	40.35	203406
		614-1078-ND	8.00	803293
15A	600	614-1081-ND	23.29	871223
		614-1082-ND	9.20	892583

Note: For replacement fuse information, contact tech support

L210 Probe Light Kit

Features:
- Bright white LED illuminates contact area
- 8 inch probe extenders keep hands away from live circuits

Includes:
- L200 Probe Light
- TP280 Test Probe Extenders

614-1059-ND (L210)... **$28.11**

ToolPak™ Meter Hanging Kit

Features:
- Attaches to back of a 110/170/180 Series meter, 20/70-III with integrated holster (with adapter), 724/725 and 50 Series II
- One year warranty

Includes:
- 2 universal hanger clips • Hook and loop straps (2 lengths)
- Strong magnet

614-1055-ND (TPAK) ***RoHS Compliant*** **$30.63**

Soft Cases

C25 Large Soft Case for DMMs

Features:
- Zippered carrying case with padding and inside pocket
- One year warranty

614-1006-ND (C25) ***RoHS Compliant*** **$28.64**

C71 Soft Case for DMMs

Features:
- Includes adjustable padded space with movable Velcro divider for protection of two test tools
- One year warranty

614-1066-ND (C71) ***RoHS Compliant*** **$44.03**

C90 Soft Case for DMMs

Features:
- Zippered carrying case with inside pocket and belt loop
- One year warranty

614-1058-ND (C90) ***RoHS Compliant*** **$27.45**

C510 Leather Meter Case

Features:
- Oiled genuine top grain cowhide
- Rugged construction with heavy duty stitching and reinforced rivets
- Large tool belt loop and top flap to secure meter
- Holds most Fluke DMMs, Thermometers and Process Calibrators
- One year warranty

614-1007-ND (C510) ***RoHS Compliant***....................... **$49.59**

Fluke MeterCleaner™ Wipes

MeterCleaner Wipes are pre-moistened with an industrial strength cleaning formula that removes surface dirt, oil and grease from your test tools.

614-1060-ND Six individually packaged wipes in a zip-lock bag
(MC6) ***RoHS Compliant***........................ **$11.12**

614-1046-ND Fifty individually packaged wipes in a paper box
(MC50) ***RoHS Compliant*** **$66.54**

XP Series Digital Multimeters

Model	15XP-A	35XP-A
AC/DC Voltage	750V/1000V	750V/1000V
AC/DC Current	2A/2A	2A/2A
Resistance	2000MΩ	40MΩ
Basic DC Accuracy	± (0.5% Rdg + 1 dgt)	± (0.5% Rdg + 1 dgt)
Continuity	Yes	Yes
Capacitance	No	Yes
Frequency	Yes	Yes
Temperature	No	Yes
Display	3½ digit	3¾ digit
Min/Max	No	No
Data Hold	Yes	Yes
Logic Test	TTL	No
Non-Contact Voltage Detect	Yes	Yes
Warranty	1 year	1 year
Safety Ratings	CAT I 1000V CAT II 600V CAT III 300V	CAT I 1000V CAT II 600V CAT III 300V

Includes	Digi-Key Part No.	Price Each	Amprobe Part No.
Test leads, Magne-Grip™ holster, Battery, Fuse, User's manual	705-1000-ND	62.95	15XP-A
Test leads, Thermocouple probe, Magne-Grip holster, Battery, Fuse, User's manual	705-1003-ND	83.95	35XP-A

XR Series Digital Multimeters

Model	30XR-A	33XR-A	37XR-A	38XR-A
AC/DC Voltage	600V/600V	1000V/750V	1000V/750V	1000V/750V
AC/DC Current	10A/10A	10A/10A	10A/10A	10A/10A
Resistance	20MΩ	4MΩ	40MΩ	40MΩ
Basic DC Accuracy	± (1%Rdg + 1dgt)	± (0.7%Rdg + 1dgt)	± (0.1%Rdg + 5dgt)	± (0.25%Rdg + 5dgt)
Continuity	Yes	Yes	Yes	Yes
Capacitance	No	Yes	Yes	Yes
Frequency	No	Yes	Yes	Yes
Temperature	No	Yes	No	Yes
Display	3½ digit	3¾ digit	4¾ digit	4¾ digit
Min/Max	Yes	Yes	Yes	Yes
Data Hold	Yes	Yes	Yes	Yes
Logic Test	No	No	TTL, CMOS	No
Non-Contact Voltage Detect	Yes	No	No	No
Warranty	1 year	1 year	3 year	3 year
Safety Ratings	CAT II 600V CAT III 300V	CAT II 1000V CAT III 600V	CAT II 1000V CAT III 600V	CAT III 1000V CAT IV 600V
UL (cULus) Listed	Yes	Yes	Yes	No

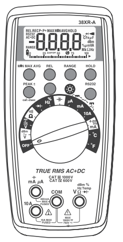
38XR-A

Includes	Digi-Key Part No.	Price Each	Amprobe Part No.
Test leads, Magne-Grip™ holster, Fuse, Battery, User's manual	705-1001-ND	62.95	30XR-A
Test leads, Alligator clips, Magne-Grip holster, Temperature adapter, Thermocouple probe, Battery, Fuse, User's manual	705-1002-ND	79.95	33XR-A
Test leads, Alligator clips, Magne-Grip holster, Battery, Fuse, User's manual	705-1004-ND	135.95	37XR-A
Test leads, Alligator clips, Temperature adapter, Thermocouple probe, Magne-Grip holster, Battery, Fuse, User's manual	705-1005-ND	154.95	38XR-A

PM55A Compact Precision Digital Multimeter

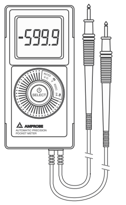

Features:

• AutoTect™ feature directs the meter to know if it is measuring AC or DC volts or resistance with no user interface • Measures AC/DC current, capacitance, frequency, continuity with beeper • Non-contact voltage detector • Automatic power off • Safety rating: CAT II 600V, CAT III 300V

705-1030-ND (PM55A) **$52.95**

Clamp Type Multimeters

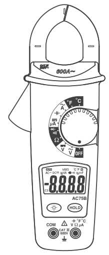
AC75B

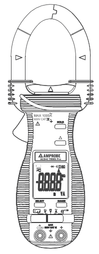
ACD-6 TRMS PRO

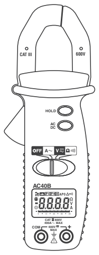
AC40B

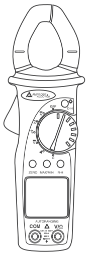
ACDC-400

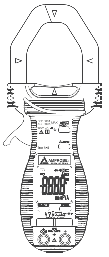
ACDC-100

Model	AC75B	ACD-6 TRMS PRO	ACD-16 PRO	ACD-16 TRMS PRO	AC40B	ACDC-400	ACDC-100	ACDC-100 TRMS
AC/DC Voltage	750V/1000V	600V/600V	600V/600V	600V/600V	600V/600V	600V/600V	600V/600V	600V/600V
AC/DC Current	600A/400A	1000A/—	1000A/—	1000A/—	400A/—	40A/400A	800A/1000A	800A/1000A
Resistance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Basic DC Accuracy	±(1.0% + 2d)	±(1.7% Rdg + 3 LSD) @ 4V~400V ranges	±(0.5% Rdg + 5 LSD)	±(0.5% Rdg + 5 LSD)	±(1.2% Rdg + 5 dgts)	±(1.0% Rdg + 2 LSD)	±(1.5% Rdg + 4 LSD)	±(1.5% Rdg + 4 LSD)
Continuity	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Capacitance	Yes	No	No	No	No	No	Yes	Yes
Frequency	No	No	Yes	Yes	No	No	No	No
Temperature	Yes	No	Yes	Yes	No	No	No	No
Min/Max	No	No	No	No	No	Yes	No	No
Data Hold	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TRMS	No	Yes	No	Yes	No	No	No	Yes
Warranty	1 year	Limited Lifetime	Limited Lifetime	Limited Lifetime	1 year	Limited Lifetime	1 year	1 year
Safety Ratings	CAT II 1000V CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V

Includes	Digi-Key Part No.	Price Each	Amprobe Part No.
Test leads, Type-K temperature probe, 9V battery, Operating instruction, Carrying case	705-1007-ND	129.95	AC75B
Test leads with set of alligator clips, Carrying case, Instruction Manual	705-1010-ND	179.95	ACD-6 TRMS PRO
Test leads, Thermocouple, Carrying case, Instruction manual	705-1008-ND	149.95	ACD-16 PRO
Test leads, Thermocouple, Carrying case, Instruction manual	705-1009-ND	169.95	ACD-16 TRMS PRO
Test leads, Carrying case, Instruction manual	705-1006-ND	79.95	AC40B
Test leads, Holster, Carrying case, Batteries, Instruction manual	705-1013-ND	179.95	ACDC-400
Test leads, Carrying case, Instruction manual	705-1011-ND	99.95	ACDC-100
Test leads, Carrying case, Instruction manual	705-1012-ND	129.95	ACDC-100 TRMS

Test Accessories

VP-600SB Non-Contact Volt Probe

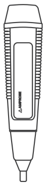

Features:

- Detects AC voltage: 100V ~ 600V
- Check for AC voltages without necessity of disconnecting the electrical system
- Test for AC voltage cables, circuit breakers, wall sockets, junction boxes, fuses, etc.
- Safety rating: CAT III 600V

705-1038-ND (VP-600SB)............................. **$15.95**

Test Lead Kits

MTL-500 Professional Electrical Test Leads Include: • MTL-100 double insulated silicon test leads • MTL-101 sharp test probes • MTL-102 insulated alligator clips

MTL-501 Advanced Electrical Test Lead Kit Includes: • MTL-100 double insulated silicon test leads • MTL-101 sharp test probes • MTL-102 fully insulated alligator clips • MTL-103 USA main socket test adaptors • MTL-104 sprung hook tips

705-1028-ND (MTL-500) **$35.95**
705-1029-ND (MTL-501) **$59.95**

Test Equipment

DM-II PRO Digital Recorder/Data Logger

Features:

• Works with single and three phase systems (Y and Delta) • Capable of recording all parameters simultaneously • All readings are True RMS (TRMS) • User selectable rates allow recording from one hour to several months • Line or battery powered

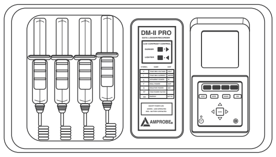

Specifications:

• **AC Voltage:** 0V ~ 600V • **AC Current:** 1A ~ 1000A • **Power:** Working (W), Reactive (VAR) and Apparent (VA) • **Power factor:** 0 ~ 1

Includes:

• CTs • PC Software

705-1025-ND (DM-II PRO) **$2395.00**

(Continued)

Test Equipment *(Cont.)*

DM-III Multitest Power Quality Recorders

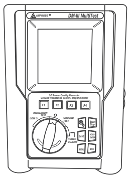

Features: • True RMS (TRMS) • Measures and records broad spectrum of power quality parameters: AC current, AC voltage to 600V including sags and surges, harmonics (THD and individual up to 49th), active, reactive and apparent power and energy, peak demand, power factor, frequency measurement and phase sequence • Works with single and three phase systems • Detects and records voltage anomalies, sags and surges • Built in scope displays waveforms • Phase sequence indication • Records up to 64 parameters simultaneously • Manual and programmable recording start • Line or battery powered • Megohmmeter functions: test insulation of wires, cables, transformers and electrical motors • Safety ratings: CAT III 600V phase to phase, CAT III 300V phase to ground

Includes: • CTs • Voltage leads • Ground probes and leads • PC software and download cable

705-1026-ND (DM-III MULTITEST F) **$3295.00**

DM-4 Power Quality Recorder

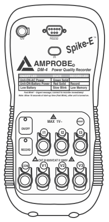

Features:
- True RMS (TRMS) • Works with single (two and three wire) and three phase systems (Y and Delta)
- Detects and records voltage spikes 100nS or slower
- Detects and records voltage sags and surges • Built in scope displays waveforms • Records all parameters simultaneously • Manual and programmable recording start • Safety rating: CAT III 600V

Includes:
- Carrying case • CTs • Test leads • PC software and download cable • Remote User Interface (PDA) with protective hard case and interface cable

705-1024-ND (DM-4) **$3495.00**

DGC-1000A Clamp-on Ground Resistance Tester

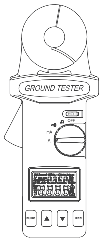

Features:
- Accurate ground resistance measurement from 0.025Ω ~ 1500Ω • TRMS current measurement
- Continuity beep if the resistance is lower than 40.00Ω
- Data logging capability: 116 records • Individual data point recording • User selectable high and low Ω audible alarms • Auto power off • Low battery indicator • Large LCD display • Safety rating: CAT III 300V, CAT II 600V

705-1023-ND (DGC-1000A) **$1299.00**

TMULD-300 Leak Detector Kit

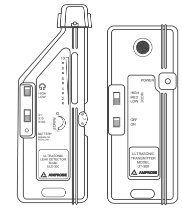

Features:
- Locates arcing in an electrical system
- Transmitter “pressurizes” area with ultrasonic sound enabling the ULD-300 to pinpoint leaks • Applications include air tightness of cars or houses • Useful in finding the ends of buried PVC pipes
- Detects any pressurized gas leak regardless of type CFC’s, HFC’s, Nitrogen, etc.

Includes:
- Ultrasonic transmitter • Flexible tubing adapter • Tubular extension • Parabola • Headphones

705-1037-ND (TMULD-300) **$399.95**

TH-2A Digital Thermo Hygrometer

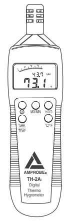

Features:
- Temperature readings
- Relative humidity measurement
- Max/Min with time stamp
- Data hold function
- Selectable °C and °F readout
- Dual LCD display with bargraph indication
- Auto power off

705-1033-ND (TH-2A) **$79.95**

RC-120S Remcon Relay Switch

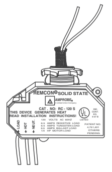

Features:
- Switches AC power ON and OFF using low voltage control circuit • Built in transformer, no step down transformers necessary • Single relay can be controlled by multiple switches and multiple relays can be controlled by a single switch • AC voltage from 105V ~ 125V • AC current up to 6.5A

705-1032-ND (RC-120S)...................... **$39.95**

PRM-3 Phase Sequence and Motor Rotation Tester

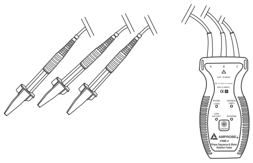

Features:
- Use for phase sequence testing, three phase motor installation and maintenance
- Checks motors for rotation direction • Identifies the phase sequence of the three phase electrical system • Indicates normal or reversed phases as well as loss of the phase

705-1031-ND (PRM-3)... **$99.95**

GP-2 Ground Resistance and Resistivity Tester

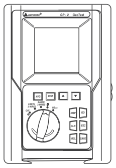

Features:
- Measure earth ground resistance; 3 point or 2 point tests • Automatically calculates resistivity; 4 point test • Automatic voltage measurement prevents false measurements • Automatically applies three testing frequencies for the most accurate readings • Auto ranging • 999 internal memory locations to store measurements • RS-232 download to a personal computer • Safety rating: CAT III 250V

Includes:
- Test leads • Auxiliary electrodes • Software • Carrying Case

705-1027-ND (GP-2)... **$1499.00**

Megohmmeters

AMB-25

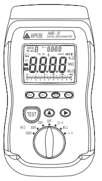

Features:
- Test insulation of wires, cables, transformers and motors • Comes as a complete kit including test leads • Internal memory

Specifications:
- **Insulation resistance with 250, 500 and 1000 VDC test voltages:** 0 ~ 4.000 / 40.00 / 400.00 / 4000MΩ
- **Resistance:** 0 ~ 9999Ω

AMB-45

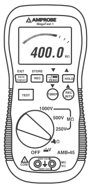

Features:
- Test insulation of wires, cables, transformers and electrical motors • Comes as a complete kit including test leads and PC software • Programmable timer • Internal memory • Safety rating: CAT III 600V

Specifications:
- **Insulation resistance with 250, 500 and 1000 VDC test voltages:** 0 ~ 4.000 / 40.00 / 400.00 / 4000MΩ
- **Resistance:** 4000Ω • **AC/DC Voltage:** 600.0V

AMC-2

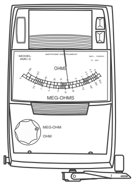

Features:
- Test insulation of wires, cables, transformers and electrical motors • Does not require batteries or any external power supply, always ready for use • Ohmmeter

Specifications:
- **500VDC Test Voltage:** 0 ~ 100MΩ ±5% Rdg @ (0.1 ~ 50MΩ) ±10% Rdg @ > 50MΩ

AMB-5KV-D

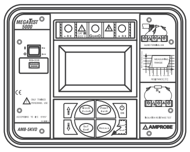

Features:
- Test insulation of wires, cables, transformers, electrical motors and generators • Comes as a complete kit including test leads and PC software • Built in automatic voltmeter up to 5000V warns against hazardous energized systems • Programmable setups of test voltages and timers

Specifications:
- **Voltages:** 100V ~ 5000V • **Resistance:** 100kΩ ~ 500GΩ • **Voltmeter:** 0 ~ 5000V ± (10% Rdg = 10 LSD) @ 0 ~ 500V ± (10% Rdg + 5 LSD) @ 500V ~ 5000V • **Memory:** 20 programmable setup configurations

705-1014-ND (AMB-25) **$299.95**
705-1015-ND (AMB-45) **$449.95**
705-1017-ND (AMC-2)... **$649.95**
705-1016-ND (AMB-5KV-D) **$2249.95**

AT-1000 Advanced Tracer

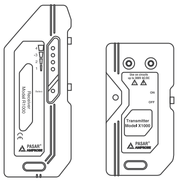

Features:
- Trace energized lines up to 300VAC or VDC • Trace unenergized and open conductors • Identifies breakers and fuses without powering down • Locates shorts • Identifies wires in a bundle
- Identifies control, alarm and telephone system wiring • Traces coaxial cable shield • Receiver range 1 to 3 feet from a cable being traced

Includes:
- Receiver • Transmitter • Carrying case • 110V pigtail cordset • Alligator clip cordset (2 pcs.) • CT-326 type adaptor

705-1018-ND (AT-1000).. **$339.95**

AT-3000 PRO Underground Hawk Buried Wire and Pipes Tracer

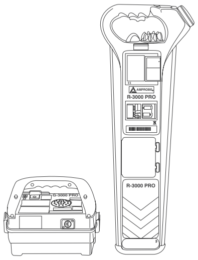

Features:
- Locates underground energized and de-energized wires, cables and pipes • Depth measurement up to 10 feet • Visual (LCD) and audible (with loudspeaker) indicators • Rugged durable construction • Backlight
- Real Sound Technology - the sound is derived from the signal radiating from the cable or pipe • Ready for use with receiver, transmitter, connection cable, ground stake and ground cable • Allows user to pinpoint the path of the underground traced object
- Weatherproof and drop resistant

705-1019-ND (AT-3000 PRO) **$2595.00**

TIF300HV Tic Tracer - AC Voltage Detector

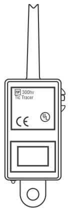

Features:
- Use to check fuses, break panels, power outlets, transmission lines, etc.
- Safety rating: UL, CE and MSHA Approved

705-1036-ND 48” Hot Stick (TIF410A)... **$99.95**

BT-250 Break’r Trac’r™

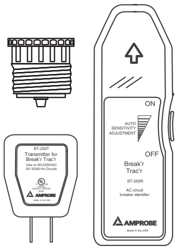

Features:
- Identifies circuit breaker location
- Works on all electrical systems from 90 to 250 VAC • Automatic sensitivity adjustment • Quick and easy to use
- Extremely accurate reading always finds the right breaker • Safety rating: UL approved

Includes:
- Transmitter • Carrying case • Test leads
- Socket adapter

705-1022-ND (BT-250)......... **$99.95**

AT-4004/AT4005 Advanced Wire Tracers

AT-4005CON

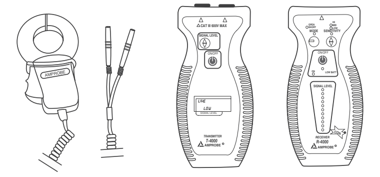

Features:
- One universal transmitter; automatically switches to work with either energized or non-energized systems • Receiver not position sensitive
- Traces live wires buried or hidden behind walls • Locates breakers, neutrals and ground lines • Pinpoints shorts, ground faults and broken wires
- Clamp-on attachment injects signal for non-contact operation • Safety rating: CAT III 600V

Includes:
- Hard carrying case • Receiver • Transmitter • 110V pigtail - banana plug cord set • Alligator clip - banana plug cord set • Grounding test lead, 25 ft. with alligator clip • Clamp-on transmitter accessory • Rechargeable battery pack and battery pack recharger (AT4005CON Only)

705-1020-ND (AT-4004CON) **$749.95**
705-1021-ND (AT-4005CON) **$899.95**

BK PRECISION
ELECTRONIC TEST INSTRUMENTS

DC Power Supplies

Regulated 28A DC Power Supplies

Models 1689, 1690:

Features: • Overload protection • High RFI stability • Multiple DC output terminals
Specifications: Output Voltage: DC 1 ~ 15V Variable **Output Current:** 28A (at 13.8V) **Ripple and Noise:** 5mV (peak to peak) **Line Regulation:** 5mV (± 2% Load) **Load Regulation:** 50mV (0 ~ 100% Load)

BK1689-ND	Precision Analog	**$285.00**
BK1690-ND	Digital LED	**$359.00**

Single Output DC Power Supplies

Model 1621A:

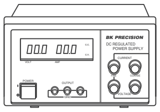

Model 1621A

Features: • Connect two supplies in parallel to double the current output • Connect two supplies in series to double the voltage output • Operate continuously at full load without overheating • Fully overload protected • Coarse and fine voltage controls • Low ripple • Continuously monitor voltage and current output on two meters

Specifications: • **Output Voltage:** 0 ~ 18V • **Output Current:** 0 ~ 5A

BK1621A-ND	Single Output DC Power Supply	**$229.00**

Switch Mode DC Power Supplies

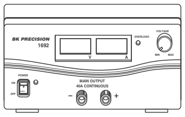

Model 1692

Model 1692: The 1692 Switching Mode DC Power Supply provides high current output in a lightweight and compact package. It is suitable for a variety of uses, especially for powering DC operated mobile radio equipment on the bench. It provides a variable voltage output from 3V ~ 15V at 40A continuous operation. In addition a fixed 13.8VDC output is also selectable by a variable control knob.

Features: • High efficiency • Current fold-back circuitry with illuminated indicator prevents overloading the power supply • Over temperature protection circuitry • Over voltage protection prevents abnormal high output voltage • High RFI stability

Specification: Output Voltage: 3 ~ 15VDC (adjustable) or fixed 13.8VDC (selectable) • **Output Current:** 40A continuous

BK1692-ND	Switch Mode Power Supply	**$309.00**

High Current Linear Power Supplies

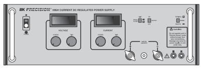

Model 1794, 1795 & 1796

Models 1791, 1790, 1794, 1795 and 1796: • Constant Voltage/Constant Current Operation • Load Current Limits • Separate DC Output ON/OFF Switch • Metering: LED

BK1791-ND	0 ~ 64V, 10A	**$1395.00**
BK1790-ND	0 ~ 32V, 20A	**$1549.99**
BK1794-ND	0 ~ 32V, 30A	**$1883.32**
BK1795-ND	0 ~ 64V, 15A	**$1883.32**
BK1796-ND	0 ~ 16V, 50A	**$1883.32**

DC Power Supplies to 240W Output

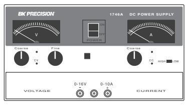

Model 1740B

Short circuit protection, overload protection, reverse polarity protection, thermal protection, and current limiting. CV and CC operation, 0.02% +2mV line and 0.04%+2mV load regulation (zero to full load), adjustable current limits (five to 100%), low ripple (≤1mVrms), fast recovery time (≤100µS), and operate from 120VAC ±10%, 60Hz. **Dimensions:** 5.7 x 10.5 x 15". Test Lead Set TL-5A and TL-30 sold separately. **2 Year Warranty.**

Model 1746B: Single 0-16V, 0-10A output. Two analog meters. **Voltmeter:** 0-16V ±2.5% **Ammeter:** High Range = 0 ~ 11A, Low Range = 0 ~ 2.2A, Accuracy = ±2.5% **Power Consumption:** 380W

Model 1740B: Single 0 ~ 60V, 0-4A output. Two analog meters. **Voltmeter:** 64V ±2.5% **Ammeter:** High Range = 0 ~ 4.4A, Low Range = 0 ~ 1.1A, Accuracy = ±2.5% **Power Consumption:** 450W

Model 1743B: Single 0 ~ 35V, 0 ~ 6A output. Two 4-digit LED meters. **Voltmeter:** 0 ~ 99.9V (green) ± (0.5% rdg + 9 digits) **Ammeter:** High Range = 0 ~ 9.99A (red), Accuracy = ±(0.5% rdg + 9 digits) **Power Consumption:** 420W

Model 1745A: Output- shorting button **Features: Output Voltage:** 0 ~ 35VDC **Output Current:** 0 ~ 10A

BK1746B-ND		**$539.00**
BK1740B-ND		**$539.00**
BK1743B-ND		**$539.00**
BK1745A-ND	DC Power Supply	**$719.00**

Single Output DC Power Supplies

Short circuit protection, overload protection, reverse polarity protection, thermal protection, and current limiting. CV and CC operation, 0.01% +3mV line and load regulation (zero to full load), adjustable current limits (5 to 100%), low ripple (≤1mVrms), fast recovery time (≤100µS), and operate from 120 VAC ±10%, 60Hz. **Dimensions:** 6.2 x 5.5 x 12.5". Test Lead Set TL-5A and TL-30 sold separately. **2 Year Warranty.**

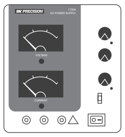

Model 1730A

Model 1710A: Single 0 ~ 30V, 0-1A output. Two analog meters. **Voltmeter:** 0-32 ±2.5% **Ammeter:** High Range = 0 ~ 1.04A, Low range = 0 ~ 0.26A, Accuracy = ±2.5% **Power Consumption:** 70W
Model 1711A: Single 0 ~ 60V, 0-2A output. Two analog meters. **Voltmeter:** 0 ~ 64 ±2.5% **Ammeter:** High Range = 0 ~ 2.2A, Low range = 0 ~ 0.55A, Accuracy = ±2.5% **Power Consumption:** 210W
Model 1715A: Single 0 ~ 60V, 0-2A output. Two 4-digit LED meters. **Voltmeter:** 0 ~ 99.9V (green) ± (0.5% rdg + 2 digits) **Ammeter:** Range = 0 ~ 9.99A (red), Accuracy = (0.5% rdg + 2 digits) **Power Consumption:** 210W
Model 1730A: Single 0 ~ 30V, 0-3A output. Two analog meters. **Voltmeter:** 0 ~ 32 ±2.5% **Ammeter:** High Range = 0 ~ 3.2A, Low range = 0 ~ 0.53A, Accuracy = ±2.5% **Power Consumption:** 180W
Model 1735A: Single 0 ~ 30V, 0 ~ 3A output. Two 3-digit LED meters. **Voltmeter:** 0 ~ 99.9V ±0.5% **Ammeter:** Range = 0 ~ 9.99A, Accuracy = ±0.5% **Power Consumption:** 180W

BK1710A-ND	**$249.00**
BK1711A-ND	**$329.00**
BK1715A-ND	**$409.00**
BK1730A-ND	**$329.00**
BK1735A-ND	**$409.00**

High Power Switching Power Supplies

The VSP Power Supply series utilizes modern switch mode technology to product high-power, low-noise switching supplies.

BKVSP2050-ND	20V, 50A, RS232	**$1972.21**
BKVSP4030-ND	40V, 30A, RS232	**$1972.21**
BKVSP6020-ND	60V, 20A, RS232	**$1972.21**
BKVSP12010-ND	120V, 10A, RS232	**$1972.21**
BKVSP2050GPIB-ND	20V, 50A, GPIB	**$2216.65**
BKVSP4030GPIB-ND	40V, 30A, GPIB	**$2216.65**
BKVSP6020GPIB-ND	60V, 20A, GPIB	**$2216.65**
BKVSP12010GPIB-ND	120V, 10A, GPIB	**$2216.65**

Power Supply Hook-up Cables

TL-5A-ND	5A Power Supply Leads	**$10.35**
BKTL-30-ND	30A Power Supply Leads	**$14.03**

Triple Output Power Supplies

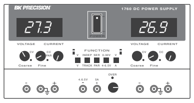

Model 1760A and 1761

Two Main sections capable of independent or tracking operation (Master and Slave). One fixed section. Switchable series/parallel operation and adjustable current limit controls for Main sections. Two displays: one reads volts or amps of "slave" supply; one reads volts or amps of "master" supply or fixed supply. Constant current and voltage indicators for Main sections. **Power Source:** 120VAC, +10% 60Hz. **Accessories Supplied**: Spare fuse, Instruction Manual, Power Cord. Test Lead Set TL-5A is sold separately.

Model 1760A: Two 0 ~ 30VDC, 2A sections; One 4 ~ 6.5VDC 5A section. Switchable series/parallel operation for 24V sections. Two 3-Digit LED Displays. **Dimensions:** 5.7 x 10.5 x 15" **2 Year Warranty**
Model 1761: Two 0 ~ 35VDC, 0 ~ 3A sections; One 2 ~ 6.5VDC, 5A section; Two 4-digit LED displays, Fully Overloaded protection. **2 Year Warranty**
Model 1651A: Two 0 ~ 24VDC 500mA sections; One 5VDC 4A section. Switchable series/parallel operation for 24V sections. Two Analog Displays. **Accessories Included:** Test leads (3 Pairs) **Dimensions:** 5.5 x 11.75 x 10.975" **1 Year Warranty**.
Model 1670A: Produces three outputs simultaneously. #1=30VDC @ 3A, #2=12VDC @ 500mA and #3=5VDC @ 500mA. Two 3-Digit LED Displays. **Dimensions:** 5.5 x 5.9 x 9.45" **1 Year Warranty**

BK1760A-ND	**$659.00**
BK1761-ND	**$699.00**
BK1651A-ND	**$449.00**
BK1670A-ND	**$195.00**

Quad Display Triple Output DC Power Supplies

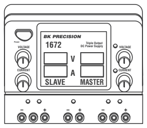

Model 1672

Model 1672: Features: • Independent control of Voltage and Current controls for variable output • CV/CC operation • Separate 3 digit displays for voltage (green) and current (red) for both variable outputs • LED indication for CV (green)/CC (red) mode • Overload indication LED for fixed output • Series tracking and parallel mode operation for triple output unit **Specifications:** • **Output Voltage**: 0 ~ 32VDC, 0 ~ 32VDC, Fixed 5VDC • **Output Current:** 0 ~ 3A, 0 ~ 3A, Fixed 0 ~ 3A

BK1672-ND	Quad Display Triple Output DC Power Supply	**$469.00**

Programmable DC Power Supplies

Single Output — 178X Series

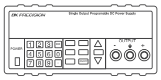

Model 1788

178X Series: Models 1785B, 1786B, 1787B and 1788 are Programmable DC Power Supplies that offer new levels of "ease of use" and programmable functionality. Direct key in entry makes voltage and current selection fast, accurate and easy. In case calibration allows for simple, cost savings, uninterrupted operation.

Features: • Sixteen user programmable preset outputs • Controllable output On/Off switch • 10mV/10mA set-ability resolution • Closed case calibration • Low ripple and noise • Excellent temperature stability • Serial interface cable and software included (RS232 optional)

BK1785B-ND	0-18V, 5A DC Output	**$385.00**
BK1786B-ND	0-32V, 3A DC Output	**$385.00**
BK1787B-ND	0-72V, 1.5A DC Output	**$385.00**
BK1788-ND	32V, 6A	**$565.56**

Single Output — 912X Series

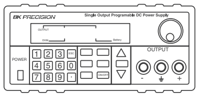

Model 9120A

912X Models: The 9120A, 9121A, 9122A, and 9123A are laboratory grade Programmable DC Power Supplies providing great performance and features not found in other supplies in this price category. The 9120A series are designed to meet the needs of today's applications labs that require clean and reliable power, high resolution and accuracy and fast transient response time. **Features:** • Low ripple and low noise • Outstanding temperature stability • Fast transient response time (<20ms) • SCPI compatible

BK9120A-ND	32V, 3A, RS232	**$709.00**
BK9121A-ND	20V, 5A, RS232	**$715.00**
BK9122A-ND	***NEW!*** 60V, 2.5A, RS232	**$739.00**
BK9123A-ND	***NEW!*** 30V, 5A, RS232, GPIB	**$799.00**

Dual Output

Model 1770:

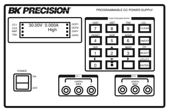

Model 1770

The 1770 Dual Range, Programmable Power Supply offers the best cost per watt available for virtually any application. With dual range voltages up to 17.5 or 35VDC and 3 and 6A, the versatile power supply features excellent reliability (50K hours MTBF) and user flexibility. **Features:** • Dual range outputs, either 0 ~ 17.5V, 0 ~ 6A or 0 ~ 35V, 0 ~ 3A • Programming resolution of 10mV and 2mA • Ripple and noise of 1mVrms • Remote sensing • In case calibration • Large character LCD display • GPIB Interface

BK1770-ND	**$999.00**

Triple Output

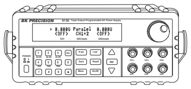

Model 9130

Model 9130: The 9130 is a fully programmable triple output DC Power supply delivering 0 ~ 30V / 0 ~ 3A on 2 outputs and 0 ~ 5V / 0 ~ 3A on 1 output. Each output is fully floating and outputs can be adjusted independently or connected in series or parallel to produce higher voltages or currents. The 9130 is ideally suited for application in Electronic Test, Production and Service where multiple independent DC supplies are required and bench space is at a premium **Features:** • SCPI compatible command set • Communicate via standard USB communication cable or optional RS232 cable • Application software for front panel emulation and simple test sequence generation included • 50 memory locations for instrument state storage and recall

BK9130-ND	Triple Output Programmable DC Power Supply	**$894.99**

Programmable DC Electronic Load

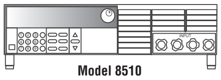

Model 8510

Model 8500:

Features: • 300W • Operates between 0 ~ 120VDC, 1mA/1mV • Over-Current, Over-Voltage, Over-Power, Over-Temperature Protected • RS232 Interface Cable and Software Included

Model 8510:

Features: • 600W • Operates between 0 ~ 120VDC, 1mA ~ 120A (600W max) • Over-Current, Over-Voltage, Over-Power, Over-Temperature Protected • RS 232 Interface Cable and Software Included

BK8500-ND	**$1025.00**
BK8510-ND	**$1995.00**

BK PRECISION
ELECTRONIC TEST INSTRUMENTS

NEW! Digital Storage Oscilloscope

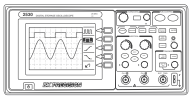

The 2530 delivers essential features and reliable performance at a price you can afford. Analog style knobs and controls combined with autoset functions make this oscilloscope easy to use. Advanced triggering, automatic measurements and FFT functions provide you with many options to debug your circuits. Additionally, the instrument comes with PC Software that lets you easily capture, save and analyze waveforms and measurement results. The 2530 is an ideal education and training tool and also well suited for applications in service and repair.

Features:

- One touch automatic setup for ease of use (Auto)
- 25MHz bandwidth, 250MSa/s sample rate
- 4,000 point record length for each channel
- Capture, save and analyze waveform data with the included EasyScope Application Software
- Cursors with readouts
- Eleven automatic measurements
- FFT standard plus 4 additional math functions
- Extensive Trigger capabilities including Pulse Width and line-selectable Video trigger
- Save/Recall setup and waveform data

BK2530-ND	Digital Storage Oscilloscope 25MHz	**$499.00**

Function Generators

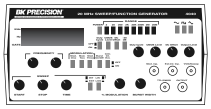

Model 4040A

FEATURES AND SPECIFICATIONS: Waveforms: Sine, Square, Triangle, ±Pulse, ±Ramp. Variable DC Offset and Duty Cycle. **Sweep LIN & LOG:** 100:1 **Frequency Counter Accuracy:** Time Base ±1 count **General: Power:** 120 ~ 230VAC +10% 50/60Hz Internal jumper selectable **Accessories:** BNC to Alligator Cable, Instruction Manual **2 Year Warranty**

Model 4007DDS: Versatile sweep function generators utilize an advanced direct digital synthesis (DDS) design. 0.1MHz ~ 7MHz frequency range (sine and square only). Lin or Log sweep function. Adjustable duty cycle. Adjustable DC offset.

Model 4013DDS: Versatile sweep function generators utilize an advanced direct digital synthesis (DDS) design. 0.1MHz ~ 12MHz Frequency Ranges (sine and square only) Lin and Log sweep function. Adjustable Duty cycle. Adjustable DC offset

Model 4001A: Function Generator in 6 Ranges from 0.5Hz ~ 4MHz Range. Coarse and Fine Tuning.

Model 4010A: 7 Ranges from 0.2Hz ~ 2MHz Range. Coarse Tuning.

Model 4011A: Function Generator. 4 Digit LED Digital Display (4 digit Display Resolution). 7 Ranges from 0.5Hz ~ 5MHz Range. Variable Duty Cycle and DC Offset. Coarse and Fine Tuning.

Model 4012A: Sweep/Function Generator. Coarse and fine tuning. 4 digit LED display. Variable duty cycle. DC offset. Linear or log sweep.

Model 4017A: 5 Digit LED Digital Display (5 digit Display Resolution). 8 Ranges from 0.1Hz ~ 10MHz Range. Coarse and Fine Tuning. Extended Sweep/Modulation Input: 0 ~ 10V.

Model 4017B: Square and Ramp waveforms. Frequency resolution down to 0.01Hz. RS-232 Interface. 0 to 100% duty cycle. Variable DC offset.

Model 4040A: Sweep/Function Generator with Frequency Counter. 5 Digit LED Display (5 digit Display Resolution 8 Ranges from 0.2Hz ~ 20MHz Range. AM and FM Modulation. Burst Operation. 30MHz External Frequency Counter. Selectable Linear or Log Sweep. Extended Sweep/Modulation Input: 0 ~ 10V. Coarse and Fine Tuning.

Model 4084: Model 4084 is a high performance laboratory grade synthesized function generator. Direct digital synthesis (DDS) techniques are used to create stable, accurate output signals for all 27 built-in standard and complex (arbitrary) waveforms.

Model 4045: Sine, Square, Triangle, Arbitrary, Ramp and Pulse waveforms. Modulation in both AM and FM. Lin or Log Sweep Function. Adjustable Duty Cycle. Adjustable DC Offset. RS-232C Interface. Frequency Range: 0.1MHz ~ 20MHz

BK4007DDS-ND	DDS Sweep Function Generator 7MHz	**$399.00**
BK4013DDS-ND	DDS Sweep Function Generator 12MHz	**$499.00**
BK4001A-ND	4MHz Sweep/Function Generator	**$205.00**
BK4010A-ND	2MHz Function Generator	**$259.00**
BK4011A-ND	5MHz Function Generator with Digital Display	**$325.00**
BK4012A-ND	5MHz Function Generator	**$359.86**
BK4017A-ND	10MHz Sweep/Function Generator with Digital Display	**$409.00**
BK4017B-ND	10MHz DDS Sweep Function Generator **10MHz available on Sine**	**$499.00**
BK4040A-ND	20MHz Sweep/Function Generator with Frequency Counter and Digital Display	**$619.00**
BK4084-ND	20MHz Programmable DDS Function Generator	**$925.00**
BK4045-ND	20MHz DDS Sweep Function Generator with Arbitrary (Capabilities)	**$995.00**
LC-40B-ND	Carrying Case (1 Year Warranty) (For 4010A, 4011A, 4017A and 4040A)	**$93.60**

Function and Arbitrary Waveform Generator

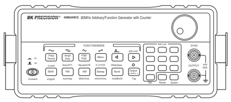

Model 4084AWG

Model 4084AWG: The Model 4084AWG is a laboratory grade synthesized function generator with arbitrary capability. Direct synthesis (DDS) techniques are used to create stable, accurate output signals for all 27 built-in standard and complex (arbitrary) waveforms as well as custom arbitrary waveforms. The 4084AWG produces high purity, low distortion sine waves and square waves up to 20 MHz and provides extensive analog modulation capabilities including AM, FM, FSK, PSK, pulse modulation, burst mode and linear/logarithmic sweep combined with multiple trigger modes. The included intuitive Windows Software lets users create and edit custom arbitrary waveforms and download them with a single click to the instruments non volatile memory. Unmatched affordability and high performance make the 4084AWG a perfect fir for many applications in Electronic Test and Design, Sensor Simulation and Education and Training. **Features:** • Clean and stable output of very small signals down to the 1mV ~ 10mV range (50Ω) • Support of internal and external modulation sources as well as internal, external and gated trigger sources • Create arbitrary waveforms with 10 bit vertical resolution, 16K memory depth and a sample rate of 200MHz • Fully programmable via the standard RS232 interface using SCPI compatible commands • 100MHz Universal Counter with frequency measurement and totalize function

BK4084AWG-ND	Arbitrary/Function Generator	**$1295.00**

Frequency Counter

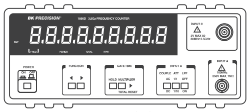

Model 1856D

Model 1856D: 3.5GHz Multifunction Counter (Frequency, Period, Totalize) Benchtop with .56 inch high 9-Digit LED Display. **Frequency:** 0.1Hz ~ 3.5GHz **Period Characteristics: Range:** 10ns ~ 10s **Input Characteristics: Impedance:** 50 Ω ±5% **Totalize Start/Stop Input: Logic Levels:** Standard TTL Levels **Time Base Characteristics: Standard Type:** TCO **Frequency:** 10MHz **Stability:** ±1ppm ±10% line voltage variation **Temperature Stability:** ±5ppm 0°C ~ 50°C **Dimensions:** 9.4 x 3.5 x 10.6” **Power:** 115VAC ±10% 50/60Hz **Accessories Included:** Instruction Manual

BK1856D-ND	3.5GHz Benchtop Multifunction Counter	**$515.00**

Multimeters

Pocket/Analog Multimeters

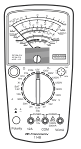

Model 114B

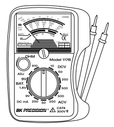

Model 117B

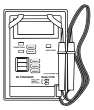

Model 2700

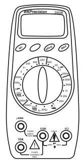

Model 2408

BK114B-ND	Analog Multimeter	**$40.00**
BK117B-ND	Pocket Size Analog Multimeter	**$20.95**
BK2700-ND	Pocket DMM	**$36.00**
BK2408-ND	Mini-pro Multimeter	**$46.50**
LC-24-ND	Carrying Case for 2408 (1 Year Warranty)	**$15.60**

Clamp-on Multimeters

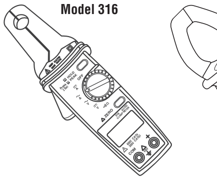

Model 316

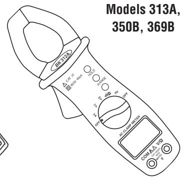

Models 313A, 350B, 369B

	Models			
	313A	**316**	**350B**	**369B**
AC Current	600A	100A	1000A	1000A
DC Current	600A	100A	—	1000A
AC Voltage	600V	600V	750V	750V
DC Voltage	600V	600V	1000V	1000V
Resistance	1KΩ	10KΩ	30MΩ	40MΩ
Frequency	—	—	✓	✓
Capacitance	—	—	—	✓
True RMS	—	—	—	✓
Continuity	✓	✓	✓	✓
Diode	—	—	✓	✓
Data Hold	✓	✓	✓	✓
Max./Min.	—	—	—	✓

BK313A-ND	600A	**$154.00**
BK316-ND	10/80/100A	**$164.00**
BK350B-ND	32/320/1000A	**$160.00**
BK369B-ND	400/1000A	**$195.00**
LC-33-ND	Carrying Case (1 Year Warranty)	**$26.99**

Bench DMM True RMS

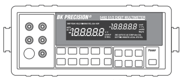

Model 5492

Model 2831D:
4-1/2 LED Digit Display Bench with 0.05% Basic Accuracy • Measures diode, frequency and continuity in addition to basic current, voltage and resistance **Specifications: DC Voltage:** 1200V max range, best accuracy +0.05% +5D **AC Voltage:** 1000V range max, best accuracy +0.75% +10D **AC/DC Current:** 20A max, best accuracy +0.75% +5D **Resistance:** 20MΩ max, best accuracy +0.2% +5D **Frequency:** 200KHZ max, best accuracy +1.0% +5D • **Dimensions:** 9.4 x 3.5 x 10.6”

Model 5491A:
50,000 Count Digit Dual Display Bench Multimeter • True RMS • Resistance measurements up to 50M Ω • Measures frequency to 500KHz • DBm measurement • RS232 Interface

Model 5492:
5-1/2 Digit Dual Display Bench DMM with 0.012% Basic Accuracy • Selectable Count Resolutions of 120,000, 40,000 and 4,000 count • Selectable 2 Wire and 4 Wire Resistance • Measures Frequency to 1MHz with 0.01Hz Best Resolution • RS-232 Interface **Includes:** One set of TL 36 Test Leads and AC 01 caps for TL 36 • Optional GPIB

BK2831D-ND		**$278.10**
BK5491A-ND		**$454.45**
BK5492-ND		**$715.00**
LC-40B-ND	Carrying Case (1 Year Warranty)	**$93.60**

Dual Display 51,000 Count DMM

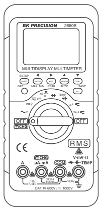

Models 2890A and 2880B are Dual Display 51,000 Count DMMs with exceptional accuracy and functionality. Both offer superb performance with many features that are useful for trouble shooting electronic and electrical circuits or to test and evaluate circuits in a field service application.

Features: • True RMSACV and ACA • 5 Digit LCD for both the primary and secondary displays • 21 Segment analog bar graph • Automatic polarity indicator • 0.025% Basic DCV accuracy (0.03% for 2880B) • Resistance measurements up to 500MΩ • Conductance measurements up to 50nS with 0.01nS resolution • Capacitance measurement • Frequency with ACV measurement • Data Hold • dBm Measurement • Conforms to IEC-1010-1 600V CAT IV and 1000V CAT III • CE Approved

Model 2890A: • AC+DC True RMS • Back lit LCD • Frequency counter up to 20MHz • Square Wave output with 28 frequency ranges and adjustable duty cycle

Model 2880B: • Easy to understand interface • IEC rated inputs

BK2890A-ND	**$309.00**
BK2880B-ND	**$249.00**

3½ Digit Ruggedized DMM

HIGH ENERGY FUSED

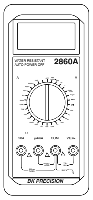

The Survivor™ High Energy Fused Ruggedized DMM. 3-1/2 digit 20.32mm high contrast LCD display.

Audible Continuity: 20 Amp range

Sampling: 2.5 times/sec. (nominal). Heavy Duty 1500VDC, 1000VAC rating. Water resistant case.

Power Requirements: Single 9V battery

Auto Power Off: approx. 30 minute

Dimensions: 6.9 x 3.5 x 1.5”

Accessories Supplied: Battery, test leads, instruction manual, rubber boot.

5 Year Warranty

BK2860A-ND		**$102.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$19.71**

Tool Kit® Multimeters

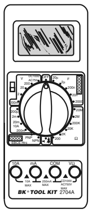

Model 2704B

Display: 3-1/2 digit, high-contrast 0.7” (17.78mm) LCD, 1999 counts.
Sampling: 3 times/sec. (nominal). 0.5%DCV accuracy.
Operating Temperature: 0°C ~ 50°C, 0% to 70% RH.
Power Requirements: 9V battery
Accessories Supplied: Battery, drop resistant case, test leads, and instruction manual.
1 Year Warranty

Model 2707A:
DMM, component tester, frequency counter, and logic probe. **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC frequency counter **Current Range:** 200μA to 10A **Resistance:** 0.1Ω to 200MΩ **Capacitance:** to 20μF **Frequency:** 2kHz to 5MHz **Logic Probe Function:** (TTL) **Transistor Gain Measure:** (hFE) **Dimensions:** 5.9 x 3.1 x 1.3”

Model 2706A:
DMM, component tester, and temperature meter. **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC **Current Range:** 200μA to 10A **Resistance:** 0.1Ω to 20MΩ **Capacitance:** to 20μF **Frequency:** 10Hz to 15MHz **Transistor Gain Measure:** (hFE) **Temperature:** 0°C ~ 750°C Thermocouple probe included **Dimensions:** 5.9 x 3.1 x 1.3”

Model 2704B:
DMM, component tester. **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC **Current Range:** 200μA to 10A **Frequency:** 2kHz to 15MHz **Resistance:** 0.1Ω to 20MΩ **Capacitance:** to 20μF **Transistor Gain Measure:** (hFE) **Dimensions:** 5.9 x 3.1 x 1.3”

Model 2703B:
DMM **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC **Current Range:** 200μA to 10A **Resistance:** 0.1Ω to 20MΩ **Dimensions:** 5.9 x 3.1 x 1.3”

BK2707A-ND		**$91.00**
BK2706A-ND		**$81.00**
BK2704B-ND		**$60.00**
BK2703B-ND		**$40.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$19.71**

(Continued)

HIGH ENERGY FUSED

Multimeters *(Cont.)*

Test Bench® Multimeters

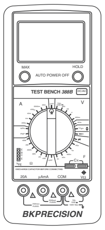

Model 388B

High quality, ruggedized, multi-function DMMs in a drop resistant case. Resistance and frequency measurement. Diode check. Auto power off. All current ranges fused. **Power Requirements:** Single 9V battery **Dimensions:** 7.8 x 3.5 x 1.5”

Accessories Supplied: 9V battery, test leads, instruction manual, rubber boot.

3 Year Warranty

Model 388B:

3-3/4 Digit LCD Display (4000 count). **DC Volts:** 400mV ~ 1000V **AC Volts:** 400mV ~ 750V **DC/AC Current:** 400µA ~ 10A **Resistance:** 400Ω ~ 40MΩ **Diode Test:** at 1mA, 3.2VDC max. type **Capacitance:** 4nF ~ 40µF **Frequency:** 4kHz ~ 4MHz. Logic level measure (TTL) Transistor gain (hFE) and peak hold.

Model 390A:

3-3/4 Digit LCD Display (4000 count). **Analog Bar Graph:** 41 Segments **DC Volts:** 400mV ~ 1000V **AC Volts:** 400mV ~ 750V **DC/AC Current:** 400µA ~ 10A **Resistance:** 400Ω ~ 40MΩ **Diode Test:** at 1.2mA, 3.0VDC max. type **Capacitance:** 4nF ~ 40mF **Frequency:** 4kHz ~ 40MHz **Temperature Range:** -50°C ~ 1300°C (1°C resolution). Auto/manual ranging. Relative mode. Minimum/Maximum hold. Data hold. Memory. RS-232. Audible continuity. Thermocouple Probe included.

Model 389A:

3-3/4 Digit LCD Display (4000 count). **Analog Bar Graph:** 41 Segments **DC Volts:** 400mV ~ 1000V **AC Volts:** 400mV ~ 750V **DC/AC Current:** 400µA ~ 10A **Resistance:** 400Ω ~ 40MΩ **Diode Test:** at 1.2mA, 3.0VDC max. type **Capacitance:** 4nF ~ 40mF **Frequency:** 4kHz ~ 40MHz. Auto/manual ranging. Relative mode. Min/max hold. Data hold. Memory. Audible continuity.

Model 391A:

4-1/2 Digit LCD Display (20,000 count). **DC Volts:** 200mV ~ 1000V **AC Volts:** 200mV ~ 750V **DC/AC Current:** 400µA ~ 10A True RMS reading **Resistance:** 200Ω ~ 20MΩ **Diode Test:** at 1mA, 3.2VDC max. type **Frequency:** 2kHz ~ 200kHz **Duty Cycle**: .0 ~ 90% (0.1% resolution). Data hold. Logic level measure (TTL).

BK388B-ND		**$130.00**
BK390A-ND		**$170.00**
BK389A-ND		**$150.00**
BK391A-ND		**$190.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$19.71**

Accessories

DC/AC Current Clamp Adapter

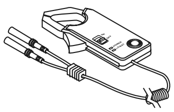

Measures current without disconnecting circuit under test. Measures to 400A DC or AC. Outputs 1 mV per Amp., operates on 2V range of any DMM.

Power Requirements: 9V battery
Operating Temp.: 0°C ~ 50°C, <70% RH
Dimensions: 7 x 2.8 x 1.3”
Accessories Included: Battery and instruction manual.

BKCP-3-ND	**$95.67**

Probes and Test Lead Sets

TP-29-ND	Type K Bead Thermocouple Probe	**$10.34**
BKTL-4-ND	Universal Test Lead Set	**$9.31**
TL-2A-ND	Test Lead Set, Fully Shrouded SILIC, IEC61010-2-031 1,000V CATIII	**$22.83**
TL-1-ND	Test Lead Set, Fully Shrouded	**$9.31**
TL-3-ND	Test Lead Accessory Set for BKTL-4 and TL-2A	**$17.62**

High-Voltage Probes

Model PR-28A:

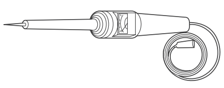

Accessory for DMM’s Multiplies instrument ranges by 1000 (40V becomes 40,000V). PR-28 for use with any high impedance (10MΩ or greater) voltmeter.

Voltage Range: 40kVDC and 20kVAC (60Hz)
Frequency Range: DC-8Hz 20kVAC max. 60Hz
Impedance: 600MΩ accuracy: ±3% plus instrument accuracy
Calibration: Internal; factory calibrated at 25kV
Size: 14” long; 2.25” diameter (max.); 48” cord
Connector: Dual banana

Model HV-44A:

Built in meter for stand-alone operation (No DMM required). Measures voltages up to 40,000VDC. Factory calibrated at 25kV (±2% accuracy); full scale ±3% accuracy. Conventional round needle type tip and flat spring type tip for easy access to CRT anode. **Size:** 16.5 x 2.1 x 2” **Color:** Black and Red

Positive Polarity Only – *Not for microwave ovens.*

PR-28A-ND	**$66.57**
HV-44A-ND	**$113.00**

Logic Probes

20MHz and 50MHz Logic Probes

Model DP-21:

(20MHz Logic Probe): Tests TTL, DTL, RTL, HTL, CMOS and MOS. Displays pulse presence and logic states. Memory mode "freezes" pulse display. Catches pulses to 30ns or pulse trains to 20MHz. 1MΩ input impedance. **Operating Supply Voltage Range:** TTL–5V, CMOS 5-15V **Dimensions:** .7 x .7 x 8.2”

Model DP-52

(50 MHz Logic Probe): Tests TTL and CMOS. Displays DC to 50MHz. Detects 10ns pulse width. Overload protected. 120kΩ input impedance. **Operating Supply Voltage Range:** 4-18VDC **Dimensions:** .7 x .7 x 8.2”

DP-21-ND	**$36.00**
BKDP52-ND	**$46.00**

Pulser Probe

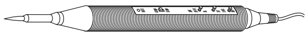

For TTL and CMOS. Produces 10µS pulse signal at 100mA. External square wave terminal. **Output Current:** Pulser mode-100mA sink/source square wave mode-5mA sink/source. **Operating Supply Voltage Range:** 5-15VDC **Sync Input Impedance:** 1MΩ **Dimensions:** .7 x .7 x 8.2”

DP-31A-ND	**$36.00**

Component Testers

Dual-Display Auto Ranging LCR Meter

Measures inductance, resistance and capacitance. 4$^1/_2$ digit LCD display. Tests at 100Hz, 120Hz, 1kHz or 10kHz (120Hz or 1kHz for 878A only). Relative mode. Tolerance mode. Backlight (879 only).

Accessories Included: 9V battery, user manual and test alligator clips pair.

BK878A-ND		**$249.00**
BK879-ND		**$332.22**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$19.71**

Bench LCR/ESR Meter with Component Tester

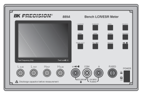

Synthesized In-Circuit LCR/ESR Meter with Component Tester. Used for measuring inductors, capacitors and resistors with DC/AC Voltage measurements and Diode/Audible Continuity checks.

BK889A-ND	**$1204.35**

In-Circuit Testers

Model 885 — LCR/ESR Meter:

Specifications: Measurement parameters: Z, L, C, DCR, ESR, D, Q, and 0 Test conditions: 100Hz, 120Hz, 1kHz, 10kHz, 1vrms, 0.25Vrms, 0.05Vrms **Features:** • 0.5% basic accuracy • Dual LCD display • SMD surface mount tweezer probe included • Fully auto/manual selection • DC resistance measurement • Rechargeable battery/AC powered

BK885-ND		**$565.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$19.71**

LCR Meter

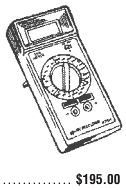

Model 875B: Measures capacitance (200pF-20mF ±1%), resistance (2-20MΩ ±1%), and inductance (200µH-200mH ±1%). 3-1/2 digit LCD display. Low battery and overload indicator.

Power: Single standard 9V battery
Dimensions: 1.4 x 3.5 x 7.5”
Accessories Included: Test leads, battery, instruction manual.

BK875B-ND		**$195.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$19.71**

Auto Ranging Capacitance Meter

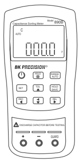

Model 830B: 4-1/2 digit LCD display. 11,000 counts resolution. Nine automatically selected ranges with full scale value from 1.0pF ~ 199.99mF. **Features:** • USB PC interface and data logging software included • Three year warranty **Specifications:** • Power Source: 9V battery • Dimensions: 7.24 x 3.42 x 1.61”

Model 890B: 4-1/2 LCD with dual display. 11,000 counts resolution. Nine automatically selected ranges with full scale value from 1.0pF ~ 50mF. **Features:** • Program unique values to sort for specific circuit applications • USB PC interface for data logging software available

BK830B-ND		**$289.00**
BK890B-ND		**$134.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$19.71**

Capacitance Meter

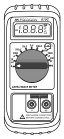

Model 810C: 3-1/2 digit LCD display. Nine ranges from 200pF to 20mF. Low battery and over-range indicator. **Power Source:** One 9V battery **Dimensions:** 5.7 x 3 x 1.6” **Accessories Included:** Test leads, battery, and manual.

BK810C-ND		**$81.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$19.71**

IC Testers

Model 570A — Linear IC Tester:

Features:

• Tests all common analog IC’s • Auto identification of unmarked/house-coded devices listing possible replacements • Conditional/unconditional loop testing mode • Functional test emulates passive circuitry to implement a comprehensive test in a variety of configurations • Displays diagnostic information down to individual component pins • Rugged, hand-held, ergonomically designed case incorporates built-in membrane keypad, 2 x 16 dot matrix alpha numeric LCD and high quality 16 pin ZIF socket • Auto power off

BK570A-ND	**$1399.00**

Model 575A — Digital IC Tester:

Features:

• 40 pin wide-entry ZIF sockets test a broad range of TTL, CMOS Memory, LSI, Interface and other devices (NAND gates to CPUs) • Identifies unmarked and house-coded devices • Detects intermittent and temperature related faults • Displays diagnostic information for individual pins

BK575A-ND	**$1099.00**

NTSC Generator

Model 1257:

This portable, handheld NTSC Pattern Generator with S-Video, composite video and audio outputs is powered by a 9-volt battery or AC adapter. It provides NTSC color bars, crosshatch, dot, staircase, circle, center cross, windows, and a full range of color raster patterns. The outputs available are composite video and audio via two RCA connectors or an S-Video mini-DIN output. Signals can be produced as an interlaced or progressive scanning mode. No modulated RF signal is provided.

BK1257-ND	NTSC Generator	**$205.00**

Network and PC Cable Testers

Model 231A:

Tests 10 BaseT, 100 Base2, RJ45, RJ11,356A, TIA-568A, TIA-568B, and token ring cables • Detects open, short, cross, and continuity • Tests Point-to-Point, rather than a Pair-to-Pair • Tests cables on wall plate or patch panel up to 1000 ft. away with the remote kit • Easy to read LED display

BK231A-ND	DLX Multi-Network Cable Tester	**$80.00**

Deluxe EPROM Eraser

Model 851:

Heavy duty EPROM eraser simultaneously erases up to 40 twenty-four pin EPROMs. Features a 60 minute timer.

BK851-ND	**$161.10**

3½ Digit Hand-Held Parts Tester

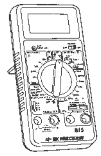

26 user ranges for versatile test selection. Tests capacitance from 0.1pF ~ 20mF. Tests resistance from 0.1Ω ~ 20MΩ. Tests transistors, SCRs, diodes and LEDs. Tests batteries under actual loaded conditions.

Power: One 9V transistor battery
Dimensions: 6.9 x 3.6 x 1.3”
Accessories Included: Test leads, spare fuse, battery, instruction manual.

BK815-ND		**$102.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$19.71**

Dual Channel, 20MHz Oscilloscope

with True RMS Digital Multimeter

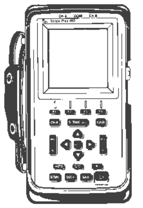

Portable Oscilloscope and Dual Input DMM

- Cursor Readout
- Pre-Post Triggering
- Decibel Measurement
- Trend Mode
- Real Time Sample Rate
- Bright LCD Backlight
- Continuous Autoset
- RS232 Option Available

Includes: Two test leads, two banana to BNC adapters, one DC-60MHz X1 X10 passive oscilloscope probe, power supply and user manual.

VERTICAL	
Bandwidth	20MHz with SP60B 10:1 Probe 10MHz with Shielded Test Leads
Sample Rate Real Time: Equivalent Time:	25 Megasamples per Second up to 2MHz 500 Megasamples per Second > 2MHz
Sensitivity	50mV to 200V/div 1,2,5 Sequence
Coupling	AC, DC, GND
Resolution	8 bits
Accuracy	± 3% + 0.05 range/div
HORIZONTAL	
Modes	Single, Normal, Auto
Samples per Division	25
Accuracy Real Time: Equivalent Time:	± 0.1% + 0.04 time/div ± 0.5% + 0.08 time/div
TRIGGER	
Source	Internal
Modes	Free Run, Normal
Sensitivity Real Time: Equivalent Time:	2 divisions or more 3 divisions or more
TREND MODE	
Plot Time	30 sec/div to 1 hour/div
Plot Data Type	Maximum/Minimum Selectable
Memory	2 Screens
TRUE RMS DMM	
DCV (CH1, CH2) Basic Accuracy:	400mV, 4, 40, 400, 600V ± 0.5% + 5 digits
ACV (CH1, CH2) Basic Accuracy:	400mV, 4, 40, 400, 600V ± 1% + 10 digits
Frequency (CH1, CH2) Basic Accuracy:	1Hz ~ 20MHz ± 0.5% + 5 digits
Ohm (CH1 only) Basic Accuracy:	400, 4k, 40k, 400k, 4M, 20M ± 0.5% + 5 digits
Continuity (CH1 only)	Sounds < 0.1kΩ, ± 2% + 5 digits

Description	Digi-Key Part No.	Price Each	TPI Part No.
Handheld Oscilloscope 460	290-1460-ND	995.00	460
Carry Case for 460	290-1905-ND	39.95	A905
Software and RS232 Cable for 460	290-1404-ND	69.95	A404

High-Performance Oscilloscope Probes

IEC 1010 Category I or Category II Compliance

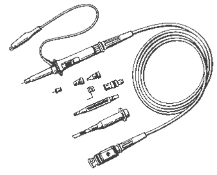

It is important that you select a probe with the same bandwidth or "frequency range" as the oscilloscope used for the job. For example, if you're using a 100 MHz oscilloscope, choose a probe with a minimum of 100MHz. To achieve optimum performance, choose a probe with more than twice the bandwidth of the oscilloscope.

Category I This slim design comes equipped with interchangeable cables, probe tips and grooved heads. Compensation adjustment placed in the BNC eliminates noise and interference related pickup. Available in switchable and non-switchable versions.

Category II This versatile design offers three monolithic interchangeable probes in 60, 100, and 250MHz bandwidth.

Band-width	Atten-uation	Cable Length Meters	Input Impedance		Max Input V DC + Peak AC Range	Rise Time	Compen-sation	Read-out	Digi-Key Part No.	Price Each	TPI Part No.
			R	C							
Switchable, IEC 1010 Compliant - Category II											
250MHz	x1 x10	1.5	1 Meg 10 Meg	200pF 22pF	600V	1.5ns	10-60pF	NA	290-1057-ND	69.95	IP250
Switchable, IEC 1010 Compliant - Category I											
60MHz	x1 x10	1.2	1 Meg 10 Meg	47pF 18pF	600V	5.8ns	10-35pF	NA	290-1003-ND	34.95	SP60B
100MHz	x1 x10	1.2	1 Meg 10 Meg	47pF 16pF	600V	3.5ns	10-35pF	NA	290-1004-ND	39.95	SP100B
150MHz	x1 x10	1.2	1 Meg 10 Meg	47pF 15pF	600V	2.3ns	10-35pF	NA	290-1005-ND	44.95	SP150B
200MHz	x1 x10	1.2	1 Meg 10 Meg	47pF 15pF	600V	1.8ns	10-35pF	NA	290-1006-ND	49.95	SP200B
250MHz	x1 x10	1.2	1 Meg 10 Meg	47pF 14pF	600V	1.4ns	10-35pF	NA	290-1007-ND	54.95	SP250B
300MHz	x1 x10	1.2	1 Meg 10 Meg	47pF 12pF	600V	1.1ns	10-35pF	NA	290-1008-ND	59.95	SP300B
Non-Switchable, IEC 1010 Compliant - Category I											
15MHz	x1	1.2	1 Meg	47pF	600V	23ns	—	NA	290-1000-ND	29.95	1P20B
100MHz	x10 x10	1.2	10 Meg 10 Meg	16pF 16pF	600V	3.5ns	10-35pF	NA Yes	290-1001-ND 290-1050-ND	34.95 39.95	P100B P100BR
200MHz	x10	1.2	10 Meg	15pF	600V	1.8ns	10-35pF	NA	290-1002-ND	39.95	P200B
250MHz	x100 x100	1.2	100 Meg 100 Meg	6.5pF 6.5pF	1200V	1.4ns	10-35pF	NA Yes	290-1051-ND 290-1052-ND	44.95 49.95	P250 P250R
250MHz	x10 x10	1.2	10 Meg 10 Meg	14pF 14pF	600V	1.4ns	10-35pF	NA Yes	290-1053-ND 290-1054-ND	44.95 49.95	P250B P250BR

Differential Probe

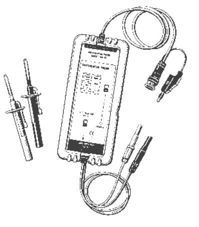

This high-voltage differential probe allows conventional grounded oscilloscopes to be used for display and measurement of multiple floating signals with high common mode voltages. IEC 1010 approved for safety.

FUNCTION:
Bandwidth: DC - 25MHz (-3dB)
Accuracy: ±2%
Risetime: 14nS
Input Impedance: 4M/10pF each side to ground, 8M/5pF between inputs
Input Voltage: ±140VDC Inc. Pk AC
Maximum Differential: 20:1 or 100V RMS, ±1,400VDC Inc. Pk AC, 200:1 or 1,000V RMS
Output Voltage: ±7 minimum 2K load
Noise (typical): 1.5/2mV
Offset (typical): <±5mV -14°F ~ 74°F (-10°C ~ 40°C)
Common Mode: ± 1,400VDC Inc. Pk AC, or 1,000V RMS
Output Source Impedance: 1 @ 1kHz, 8 @ 1MHz
Operating Temperature: -14°F ~ 74°C (-10°C ~ 40°C)
Power Requirements: 4 AA cell or 6V main adapters: DC/600mA or DC/800mA
Input Leads: 45cm double insulated PVC terminated in 44mm safety plugs

290-1076-ND ADF25 .... **$374.95**

4,000 Count True RMS DMM with 1MHz Waveform Capabilities

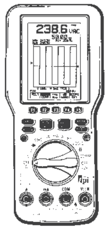

Versatile 6 Instruments-in-1

Features:

- Autoranging 4,000 Count\True RMS DMM
- 1MHz
- Trend Mode
- Component Test
- Logic Test
- Frequency Counter
- T-Base Button
- Continuous Autoset
- RS232 Option Available

Includes: Insulated test leads with alligator clips, power supply, NiCad battery and user manual.

OSCILLOSCOPE	
Bandwidth	1MHz
Sample Rate	20 Megasamples per Second Single Shot
Channels	Single
Glitch Capture	Yes
Trend Mode	Yes
Auto Set	Continuous
Waveform Memory	8 locations
Set-up Memory	8 locations
Viewing Area	160 x 240 pixels
Contrast	Adjustable
DMM	
True RMS	Yes
Basic DC Accuracy	0.3%
DCV / ACV	Up to 1,000 volts
DCA / ACA	Up to 10 amps
Ohms	Up to 40MΩ
Capacitance	Up to 400µF
Frequency	Up to 2MHz

Description	Digi-Key Part No.	Price Each	TPI Part No.
TPI 440 Hand-held Oscilloscope 440	290-1440-ND	299.95	TPI 440
Software for TPI 440	290-1075-ND	59.95	A402
Battery Charger for TPI 440	290-1441-ND	19.95	TPI A401
Carrying Case for TPI 440	290-1900-ND	18.54	TPI A900
Rubber Boot for TPI 440	290-1123-ND	19.95	A403

Digital Multimeters

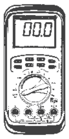

183

TPI digital multimeters feature auto ranging, minimum/maximum record function, 4,000-count display, and protective rubber feet. ***Includes:*** *Batteries, Test Leads, Protective Boot, and Instruction Manual with 3-year Limited Warranty*

- The 183 offers a triple display with backlight, frequency and capacitance ranges, and RS-232 communication function.
- TPI 190 series digital multimeters feature 50,000-count triple display with analog bar graph and backlight, separate fuse and battery compartment, CAT IV rated test leads with screw on alligator clips, and protective rubber feet.

FUNCTION	100	126	153	183	192	194
Display Count	4,000	4,000	4,000	4,000	50,000	50,000
AC Volts	600	600	750	750	750	750
DC Volts	600	600	1,000	1,000	1,000	1,000
Basic DC Accuracy	0.5%	0.3%	0.3%	0.03%	0.05%	0.05%
AC/DC Amps	NA	400mA	10	10	10	10
True RMS	NA	NA	NA	Yes	Yes	Yes
Resistance	10MΩ	40MΩ	40MΩ	40MΩ	50MΩ	50MΩ
Capacitance	NA	NA	NA	10,000µF	100µF	20,000µF
Frequency	NA	NA	NA	200KHz	500KHz	500KHz
Analog Bar Graph	NA	NA	NA	Yes	Yes	Yes
Auto Range	Yes	Yes	Yes	Yes	Yes	Yes
Data Hold	NA	Yes	Yes	Yes	Yes	Yes
Min./Max. Record	NA	Yes	Yes	Yes	Yes	Yes
Sleep Mode	NA	NA	NA	Yes	Yes	Yes
Auto Power Off	Yes	Yes	Yes	NA	Yes	Yes
RS232 (cable and software)	NA	NA	NA	Optional A108	Optional A191	Optional A191
Dimensions - Inch (with boot)	7.4 x 3.4 x 1.3	6 x 3 x 2	7.75 x 3.75 x 2.25	7.75 x 3.75 x 2.25	8.0 x 4.5 x 2.0	8.0 x 4.5 x 2.0

Description	Digi-Key Part No.	Price Each	TPI Part No.
EZ 100, One Button Operation	290-1920-ND	49.95	100
Pocket Auto Range, Compact Size	290-1126-ND	59.95	126
4 Digit, Large Display	290-1153-ND	74.95	153
4 Digit, Triple Display	290-1183-ND	139.95	183
5 Digit, CAT III	290-1423-ND	229.95	192
5 Digit, CAT IV	290-1424-ND	269.95	194

Digital Clamp-On Meter

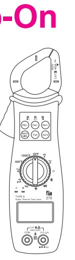

Measure AC/DC volts, AC amps, DC microamps, resistance, continuity, temperature, capacitance, frequency and diodes.

Features:

- Non-contact voltage detection
- High voltage indication
- Ability to capture in-rush current with peak hold mode

290-1421-ND 270 ..... **$129.95**

Fiber Optic Inspection Tool

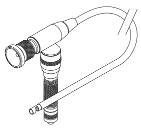

Features: • Machined aluminum housing • Coated flexible 48" fiber optic cable for accessibility to tight areas with bends and curves • Hi-resolution 8,000 pixel image • Super bright LED flashlight light source • Compact aluminum carrying case with locking latches • Removable right angle mirror

Specifications: • .39 inch (1.0mm) shaft diameter • 48 inch (1,220mm) working length

810-ND **$499.95**

Pocket Digital Contact Thermometers

Range: -58°F ~ 300°F or -50°C ~ 150°C **Resolution:** 0.1°F or °C **Accuracy:** ±2°F or ±1°C **Sampling Time:** 1.5 seconds **Battery:** 1.5V button **Features:** • Data hold for hard to reach areas • Auto power off

310: • Reversible LCD head • Turns for best viewing • Easy-to-read LCD • 4.9" stem

312: • Water resistant for use in wet environments • Quick response • Easy insertion into "Petes" plugs • 4.9" stem

315: • Rugged design • Water resistant • 3.1mm diameter stem for "Pete's" plugs

290-1310-ND 310 .... **$12.95**
290-1312-ND 312 .... **$15.95**
290-1422-ND 315 .... **$18.95**

Close Focus, Pocket-Size Infrared Thermometer

Features: • Compact–Easily fits in your pocket • Selectable Fahrenheit or Centigrade temperature range: -7°F ~ 248°F (-22°C ~ 120°C) • Auto Data Hold • Min./Max. functions 8 samplings in 0.5 seconds • AUTO sets the 368 into scan mode to continuously scan surface temperatures in real time. Automatically powers off after 60 seconds. ***NOTE:*** Close focus IR thermometers should be held a distance 0.5" ~ 2" from surface to be measured to obtain an accurate reading (spot size 0.35").
Specifications: • Operating Temperature: 32°F ~ 104°F (0°C ~ 40°C) • Accuracy: 2% of reading or ±3.5°F, whichever is greater

290-1901-ND 368.. **$24.95**

Nano-Clips and Micro-Clips

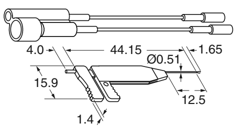

NANO-CLIP SPECIFICATIONS: Accessible Lead Pitch: 0.3mm minimum **Clip Retention:** 50g minimum **Stroke:** 1.65mm **Operating Force:** 300g maximum **Contact Resistance:** 30MΩ **Conductor Resistance:** 300MΩ

NANO-CLIP FEATURES: • Gold-plated hook and contact • Fluorine coated barrel extension

MICRO-CLIP SPECIFICATIONS: Accessible Lead Pitch: 1.27mm minimum **Clip Retention:** 200g minimum **Stroke:** 3.0mm **Operating Force:** 1.0kg maximum **Contact Resistance:** 30MΩ **Conductor Resistance:** 200MΩ

Description	Package Includes	Digi-Key Part No.	Price Each	TPI Part No.
Nano-Clip .3mm				
Black, Red	2 Clips, 2 Lead Sets and Ground Lead	290-1096-ND	47.95	NC2BR
Black, Red	6 Clips, 3 Lead Sets and Ground Lead	290-1097-ND	99.95	NC6BR
Assorted	12 Clips, 6 Lead Sets and Ground Lead	290-1105-ND	189.95	NC12
Black	1 Clip	290-1106-ND	9.95	NC1B
Gray	1 Clip	290-1107-ND	9.95	NC1GY
Red	1 Clip	290-1108-ND	9.95	NC1R
Yellow	1 Clip	290-1109-ND	9.95	NC1Y
Green	1 Clip	290-1110-ND	9.95	NC1G
Blue	1 Clip	290-1111-ND	9.95	NC1BLUE
Micro-Clip 1.27mm				
Black	1 Clip	290-1118-ND	7.95	MC1B
Gray	1 Clip	290-1119-ND	7.95	MC1GY
Red	1 Clip	290-1121-ND	7.95	MC1R
Assorted	6 Clips, 3 Lead Sets and Ground Lead	290-1117-ND	46.95	MC6

IR Non-Contact and Contact Temperature Testers

Take non-contact and contact temperatures with one temperature tester.
Model 376 Features: • Combination non-contact IR and contact (K-Type thermocouple) • Laser pointer • Record function • Display data hold function • Backlight • Trigger switch • 8:1 distance to spot ratio • Selectable °C/°F • Gun-type compact design • Operation lock function • Soft pouch included • Three-year limited warranty **Display Resolution:** 0.1°F and 0.1°C or 1°F and 1°C **Operating Temperature:** 32°F ~ 120°F (0°C ~ 50°C) **K-Type Probe Range**: -40°F ~ 2,192°F (-40°C ~ 1,200°C) **K-Type Probe Accuracy**: ±5% of reading 3°F

Models 381, 383 and 384 Features: • Easy to use single button operation • 0.1/1 degree auto resolution for best reading • Last reading hold • Soft holster pouch included • 9:1 distance to spot ratio (381F: 6:1) • Large, easy to read display • °C and °F selectable

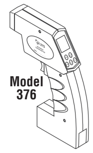

Model 376

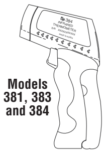

Models 381, 383 and 384

FUNCTION	376	381	383	384
Temperature Range	-58°F ~ 950°F -50°C ~ 510°C	-4°F ~ 572°F -20°C ~ 300°C	-31°F ~ 999°F -35°C ~ 560°C	-31°F ~ 1,832°F -35°C ~ 1,000°C
Laser Sighting	Yes	Yes	Yes	Yes
Accuracy @ 25°C and 0.95 Emissivity	±2% / ±3.5°F	±2% / ±3.5°F	±2% / ±3.5°F	±2% / ±3.5°F
Response Time	500ms	500ms	500ms	500ms
Special Response	7-14um	7-14um	7-14um	8-14um
Emissivity	0.3 ~ 99 adjustable	0.95 fixed	0.95 fixed	0.95 fixed

Description	Digi-Key Part No.	Price Each	TPI Part No.
Combination Non-Contact/Contact Temperature Tester w/Soft Pouch	290-1376-ND	149.95	376
Non-Contact Temperature Tester with Soft Pouch and Laser	290-1427-ND	74.95	381
High-Temperature, IR Gun with Soft Pouch	290-1419-ND	99.95	383
High-Temperature, IR Gun with Soft Pouch	290-1420-ND	129.95	384

K-Type Contact Thermometer

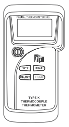

343C2

Water-resistant testers accept K-Type thermocouple probes. The 343C2 features dual inputs displays temperature differential, and has minimum/maximum record. Protective boot (A304) included. **Size:** 1.6" x 6" x 3" **Weight:** 278g with boot • *Perform ice bath calibration to achieve ±1°F within the 30°F ~ 120°F temperature range. Calibration is an easy two-step process performed through the keypad and does not require the use of tools.* **Minimum/Maximum Record:** Yes **Selectable Resistance:** Auto **C/F Selectable:** Yes **T1, T2 △T:** Yes **Auto Off:** Yes **Range K-Type:** -58°F ~ 2,462°F (-50°C ~ 1,350°C) **Basic Accuracy:** ±0.3% **Battery:** 9V

290-1416-ND 343C2 Thermometer Kit.. **$74.95**

Model GK11M: • Standard K-Type thermocouple probe • 4 foot fiberglass covered lead • Exposed junction for fast response

290-1911-ND GK11M (K-Type)... **$14.95**

Test Leads and Accessories

Fig. 1

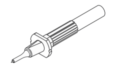

Fig. 2

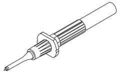

Fig. 3

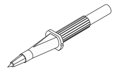

Fig. 4

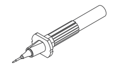

Fig. 5

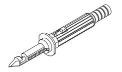

Fig. 6

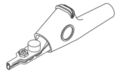

Fig. 7

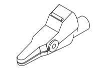

Fig. 8

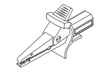

Fig. 9

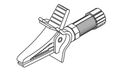

Fig. 10

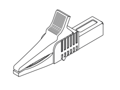

Fig. 11

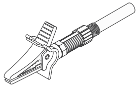

Fig. 12

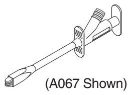

(A067 Shown)

Fig. 13

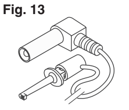

Fig. 14

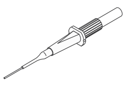

Fig. 15

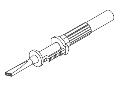

Fig. 16

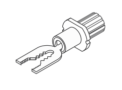

Fig. 17

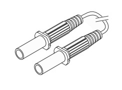

Fig. 18

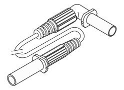

Fig. 19

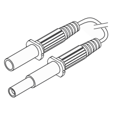

Fig. 20

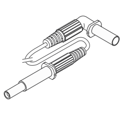

Fig. 21

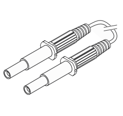

Fig. 22

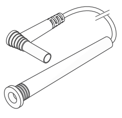

Fig. 23

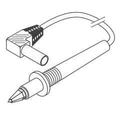

Fig. 24

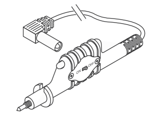

Fig. 25

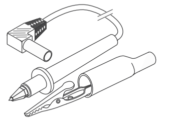

Fig. 26

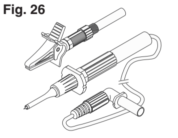

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	TPI Part No.
1	Standard Prod Set	290-1511-ND	9.95	9.14	A037
	Standard Prod, Black	290-1512-ND	4.98	4.57	A037B
	Standard Prod, Red	290-1513-ND	4.98	4.57	A037R
2	Fused Prod Set	290-1508-ND	24.95	22.93	A036
	Fused Prod, Black	290-1509-ND	12.48	11.47	A036B
	Fused Prod, Red	290-1510-ND	12.48	11.47	A036R
	1,000V, GS38 Compliant Fused Prod Set	290-1558-ND	29.95	27.51	A083
	1,000V, GS38 Compliant Fused Prod, Black	290-1559-ND	14.98	13.76	A083B
	1,000V, GS38 Compliant Fused Prod, Red	290-1560-ND	14.98	13.76	A083R
3	OEM Style Prod Set	290-1520-ND	8.95	8.23	A054
	OEM Style Prod, Black	290-1521-ND	4.48	4.12	A054B
	OEM Style Prod, Red	290-1522-ND	4.48	4.12	A054R
4	Thin Stainless Steel Tip Prod Set	290-1523-ND	12.95	11.90	A055
	Thin Stainless Steel Tip Prod, Black	290-1524-ND	6.48	5.95	A055B
	Thin Stainless Steel Tip Prod, Red	290-1525-ND	6.48	5.95	A055R
5	Insulation Piercing Prod Set	290-1532-ND	15.95	14.65	A059
	Insulation Piercing Prod, Black	290-1533-ND	7.98	7.34	A059B
	Insulation Piercing Prod, Red	290-1534-ND	7.98	7.34	A059R
6	Test Clip Piercing, Straight Tip, Red Boot	290-1184-ND	6.95	6.39	A032R
	Test Clip Piercing, Straight Tip, Black Boot	290-1185-ND	6.95	6.39	A032B
	Test Clip Piercing, Straight Tip, Blue Boot	290-1186-ND	6.95	6.39	A032BL
	Test Clip Piercing, Bent Tip, Red Boot	290-1187-ND	6.95	6.39	A033R
	Test Clip Piercing, Bent Tip, Black Boot	290-1188-ND	6.95	6.39	A033B
	Test Clip Piercing, Bent Tip, Blue Boot	290-1189-ND	6.95	6.39	A033BL
7	Small Alligator Clip Set	290-1505-ND	6.95	6.39	A034
	Small Alligator Clip, Black	290-1506-ND	3.48	3.21	A034B
	Small Alligator Clip, Red	290-1507-ND	3.48	3.21	A034R
8	1,000V Crocodile Clip Set	290-1535-ND	14.95	13.74	A066
	1,000V Crocodile Clip, Black	290-1536-ND	7.48	6.88	A066B
	1,000V Crocodile Clip, Red	290-1537-ND	7.48	6.88	A066R
9	Flanged Fully Insulated Crocodile Clip Set	290-1529-ND	7.95	7.30	A058
	Flanged Fully Insulated Crocodile Clip, Black	290-1530-ND	3.98	3.66	A058B
	Flanged Fully Insulated Crocodile Clip, Red	290-1531-ND	3.95	3.63	A058R
10	Cat III, 600V Crocodile Clip Set	290-1541-ND	14.95	13.74	A068
	Cat III, 600V Crocodile Clip, Black	290-1542-ND	7.48	6.88	A068B
	Cat III, 600V Crocodile Clip, Red	290-1543-ND	7.48	6.88	A068R

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	TPI Part No.
11	Fused Flanged Crocodile Clip Set	290-1555-ND	33.95	31.19	A084
	Fused Flanged Crocodile Clip, Black	290-1556-ND	16.98	15.60	A084B
	Fused Flanged Crocodile Clip, Red	290-1557-ND	16.98	15.60	A084R
12	Grabber Clip Set	290-1538-ND	22.95	21.09	A067
	Grabber Clip, Black	290-1539-ND	11.48	10.56	A067B
	Grabber Clip, Red	290-1540-ND	11.48	10.56	A067R
	Plunger Clip Set	290-1544-ND	22.95	21.09	A069
	Plunger Clip, Black	290-1545-ND	11.48	10.56	A069B
	Plunger Clip, Red	290-1546-ND	11.48	10.56	A069R
13	Probe Tip Red 5 Mini Clip With 9" Pigtail	290-1065-ND	7.95	5.66	SMD1R
	Probe Tip Black 5 Mini Clip With 9" Pigtail	290-1066-ND	7.95	5.66	SMD1B
14	Needle Back Probe Set	290-1526-ND	9.95	9.14	A057
	Needle Back Probe, Black	290-1527-ND	4.98	4.57	A057B
	Needle Back Probe, Red	290-1528-ND	4.98	4.57	A057R
15	Sprung Hook Set	290-1514-ND	10.95	10.07	A038
	Sprung Hook, Black	290-1515-ND	5.48	5.04	A038B
	Sprung Hook, Red	290-1516-ND	5.48	5.04	A038R
16	Spade Terminal Set	290-1517-ND	2.95	2.72	A039
	Spade Terminal, Black	290-1518-ND	1.48	1.37	A039B
	Spade Terminal, Red	290-1519-ND	1.48	1.37	A039R
17	Fixed Shroud to Fixed Shroud	290-1500-ND	15.95	14.65	A079
18	90° Fixed Shroud to Fixed Shroud	290-1502-ND	15.95	14.65	A082
19	Fixed Shroud to Shutter Plug	290-1504-ND	16.95	15.58	A087
20	90° Fixed Shroud to Shutter Plug	290-1501-ND	15.95	14.65	A081
21	Shutter Plug to Shutter Plug	290-1503-ND	19.95	18.33	A086
22	Test Lead Set for A083, A084	290-1552-ND	14.95	13.74	A088
	Test Lead for A083, A084, Black	290-1553-ND	7.48	6.88	A088B
	Test Lead for A083, A084, Red	290-1554-ND	7.48	6.88	A088R
23	Test Lead Set Standard 46"	290-1059-ND	6.95	6.39	SSL2
	UL Test Lead Set	290-1547-ND	9.95	9.14	A070
24	Lighted Test Lead Set	290-1549-ND	49.95	45.89	A035
25	UL Test Lead Set with Alligator Clip	290-1548-ND	17.95	16.49	A085
	Fused Test Lead Set	290-1550-ND	24.95	22.93	A041
26	Fused Test Lead Kit	290-1551-ND	69.95	64.26	A089
—	Kit Test Lead Set 7 Pair	290-1058-ND	34.95	—	SDK1

Test Equipment

Adapters

Dimensions in Inches (mm)

Fig. 1

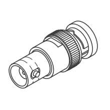

Fig. 2

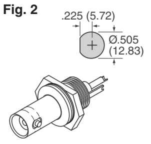

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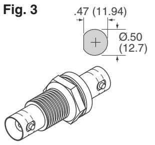

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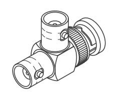

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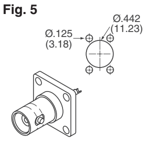

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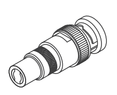

Fig. 7

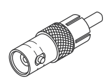

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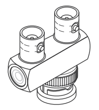

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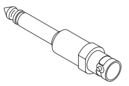

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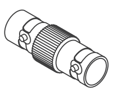

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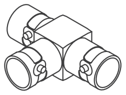

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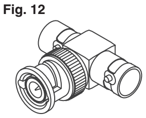

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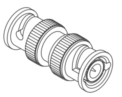

Fig. 14

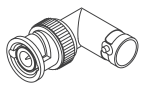

Fig. 15

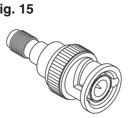

Fig. 16

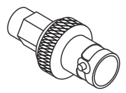

Fig. 17

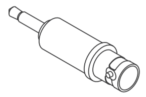

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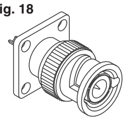

Fig. 19

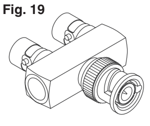

Fig. 20

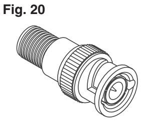

Fig. 21

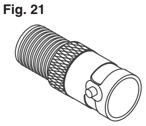

Fig. 22

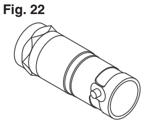

Fig. 23

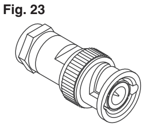

Fig. 24

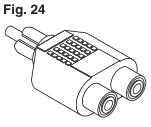

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	BNC Feed-Thru Termination, 50Ω	501-1036-ND◆	35.96	32.49	4119-50
2	BNC (Female) Isolated Ground Bulkhead Receptacle	501-1037-ND◆	3.24	2.93	3778
2	BNC (Female) Bulkhead Receptacle, Isolated Ground, PTFE, 75Ω	501-1151-ND◆	2.59	2.34	6741
2	BNC Female Bulkhead Receptacle, 75Ω	501-1153-ND◆	2.37	2.15	6745
3	Adapter, Isolated Ground BNC Female-Female	501-1038-ND◆	8.02	7.25	3846
3	Hermetic Sealed BNC Female-Female	501-1139-ND◆	19.82	17.91	3847
3	Isolated BNC Female to Female Panel	501-1142-ND◆	14.41	13.02	6705
3	BNC (Female-Female) Panel Mount, Hermetically Sealed, 75Ω	501-1152-ND◆	3.20	2.90	6744
4	BNC “T” (Male-Female-Female) Coaxial Adapter	501-1039-ND◆	13.74	12.42	4896
5	BNC Female Panel Receptacle	501-1040-ND◆	6.16	5.57	2451
5	BNC Female Panel Receptacle, 75Ω	501-1146-ND◆	2.71	2.45	6736
6	Adapter, Phono Jack to BNC Male	501-1096-ND◆	18.84	17.03	4054
7	Adapter, BNC Female to Phono Plug	501-1099-ND◆	6.92	6.26	5319
8	BNC Male to Dual BNC Female Straight Adapter	501-1100-ND◆	15.92	14.39	6700
9	BNC (Female) to Std. 1/4” Two Conductor Phone Plug	501-1128-ND◆	11.87	10.73	1297
10	BNC Female-Female	501-1132-ND◆	4.76	4.31	3283
10	BNC Female-Female, 75Ω	501-1147-ND◆	2.59	2.34	6737
11	BNC “T” (Female-Female-Female)	501-1133-ND◆	13.74	12.42	3284

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
11	BNC (Female-Female-Female) 75Ω	501-1148-ND◆	3.67	3.32	6738
12	BNC “T” (Female-Male-Female)	501-1134-ND◆	6.06	5.48	3285
12	BNC (Female-Male-Female) 75Ω	501-1149-ND◆	3.67	3.32	6739
13	BNC Male-Male	501-1135-ND◆	3.24	2.93	3533
13	BNC Male-Male, 75Ω	501-1150-ND◆	2.06	1.86	6740
14	BNC (Female-Male) Right Angle	501-1136-ND◆	8.86	8.01	3534
15	SMA Female to BNC Male	501-1140-ND◆	9.00	8.13	4289
16	SMA Male to BNC Female	501-1141-ND◆	8.83	7.98	4290
17	BNC Female to Tini-Plug	501-1138-ND	14.29	12.92	3837
18	BNC Male Panel Mount, 75Ω	501-1145-ND◆	3.20	2.90	6735
19	BNC (Female-Male-Female) In-Line, 75Ω	501-1154-ND◆	3.67	3.32	6754
20	BNC (Male) / F (Female), 75Ω	501-1155-ND◆	3.45	3.12	6779
21	BNC (Female) / F (Female), 75Ω	501-1156-ND◆	3.45	3.12	6780
22	BNC (Female) / F (Male), 75Ω	501-1157-ND◆	3.45	3.12	6781
23	BNC (Male) / F (Male), 75Ω	501-1158-ND◆	3.45	3.12	6782
24	RCA (Female-Male-Female)	501-1161-ND	1.28	1.16	6882

◆ ***RoHS Compliant***

Probes

Dimensions in Inches (mm)

Fig. 1

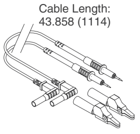

Fig. 2

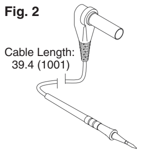

Fig. 3

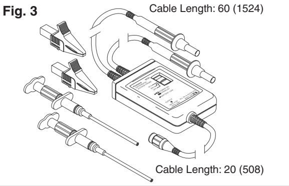

Model 6723:

Features: • Test probe has a Stainless Steel sharp tip wit 8/32 threaded base • Alligator clip screws onto probe tip • Test leads fit all standard DMM with safety style banana jacks

Kit Includes: • A set of red and black test leads • A set of red and black medium alligator test clips

Model 6341:

Features: • Gold plated pogo pin tip keeps constant pressure on test point for consistent readings • Replaceable probe tips • Right angle DMM plug fits most digital multimeters

Kit Includes: • One red probe • One black probe with a set of all tip styles, which include: Sharp Point Gold Plated Pogo Pin Tip, Sharp Point Stainless Steel Tip, Triple Point Gold Plated Pogo Pin Tip, Quad Point Gold Plated Pogo Pin Tip and 3” (76.19mm) Long Sharp Point Stainless Steel Tip

Model 6731:

Features: • Allows user to safely make floating high voltage measurements while using general purpose oscilloscopes • Max. differential voltage up to 1000V • Differential amplifier converts and scales floating input signal to a low-voltage signal referenced to earth ground • The probe can be used on circuits associated with electronic high-power converters, motor speed controllers, switching power supplies, and other high voltage circuits requiring isolation • Switchable attenuation settings

Kit Includes: • Large Jaw Alligator Clips (one red and one black) • Pin-Grabber Test Clips (one red and one black) • 9V Alkaline Battery

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	Model 6723, Test Lead Kit with 8/32 Threaded Probe Tip	501-1101-ND◆	35.54	32.12	6723
2	Model 6341, Replaceable Tip Precision Electronic Probe	501-1003-ND◆	36.79	33.24	6341
3	Model 6731, Active Differential Probe	501-1005-ND◆	625.21	564.95	6731
—	Power Adapter for Model 6731	501-1006-ND	108.32	97.88	6732

◆ ***RoHS Compliant***

Test Enclosures

RoHS COMPLIANT

Dimensions in Inches (mm)

Fig. 1

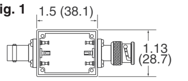

Fig. 2

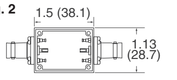

Fig. 3

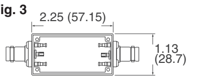

Fig. 4

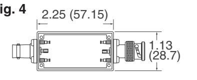

Fig. 5

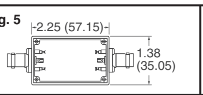

Fig. 6

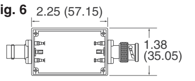

Fig. 7

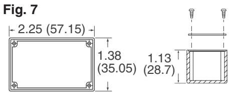

Fig. 8

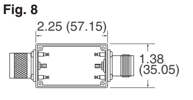

Fig. 9

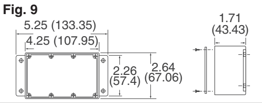

Fig. 10

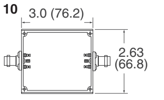

Fig. 11

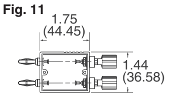

Fig. 12

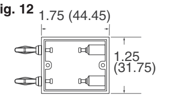

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
	Die Cast Aluminum - Blue				
1	Miniature Size Box, BNC Female to BNC Male with Cover	501-1103-ND	29.47	26.63	3752
2	Miniature Size Box, BNC Female/Female with Cover	501-1104-ND	31.31	28.29	3751
3	Size “A” Box, BNC Female/Female with Cover	501-1069-ND	26.54	23.99	2390
4	Size “A” Box, BNC Male/Female with Cover	501-1070-ND	28.92	26.13	2391
5	Size “B” Box, BNC Female/Female with Cover	501-1105-ND	25.35	22.91	3230
6	Size “B” Box, BNC Male/Female with Cover	501-1106-ND	30.44	27.51	3231
7	Size “B” Box Shield with Cover	501-1107-ND	8.45	7.64	2417

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
8	Size “B” Box, Type N Male/Female with Cover	501-1112-ND	50.48	45.62	2411
9	Size “C” Box Shielded with Cover	501-1108-ND	20.53	18.56	2901
10	Size “D” Shielded Housing, BNC Female Both Ends with Cover	501-1111-ND	34.88	31.52	3602
	Electrical Grade Phenolic - Black				
11	Box Component Mounting, Double Plug to Binding Posts w/Cover	501-1110-ND	28.70	25.94	2259
12	Box Component Mounting, Banana Jack to Double Plug w/Cover	501-1109-ND	18.96	17.13	2098

(Continued)

Test Leads

Kit Features: • Test leads with a right angle banana plug are ideal for use with hand held digital multimeter • Test accessories conveniently store in the four-fold nylon pouch • Compatible with most multimeters that accepts safety style sheath banana plugs • CE Compliant; complies with IEC 1010-2-031 standard for hand held accessories

Electrical DMM: Model 5673B — Kit Includes *(1 red and 1 black of each):* • Modular Probe Set • Extended Fine Point • Extra Large Alligator Clip Set • Medium Alligator Clip Set • Flexible Test Lead Set • Insulated Spade Lug Set **Model 5677B — Kit Includes *(1 red and 1 black of each):*** • Flexible Test Lead Set • Extra Large Alligator Clip Set • Test Lead Coupler Set • Retractable Tip Set • Spade Lug Adapter Set • IC Test Probe Tip Adapter Set • Minigrabber® Test Clip Set • 0.080 Replacement Probe Tip Set • Replacement Modular Test Probe Set • Minipincer® Test Clip Set • Medium Alligator Clip Set

SMD Multi-Use Test Kits: Model 72928 — Kit Includes: • *(1 red and 1 black of each):* • Micro SMD Grabber Test Clips • Mini-alligator clip with 2mm jack • SMD test probe, spring-set tip • Mini SMD Grabber Test Clips • 4mm plug/2mm plug adapter • Bench-top DMM test leads • SMD grabber clip lead • Stacking 2mm patch cords **Model 72935 — Kit Includes:** • 2 DMM Leads with 4mm Plugs • 2 Test Probes with Spring-Loaded Tips • 6 Micro SMD Grabbers • 6 Adapter Leads 0.8mm Female to 0.4mm Jack • 2 Mini SMD Grabbers with 4mm Connectors• 2 Holding Rods

Dimensions in Inches (mm)

Fig. 1

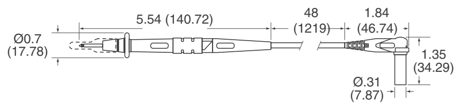

Fig. 2

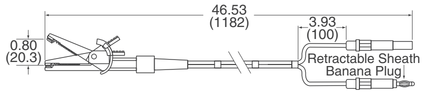

Fig. 3

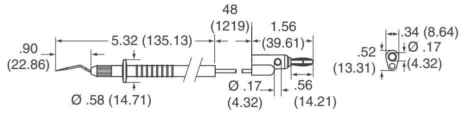

Fig. 4

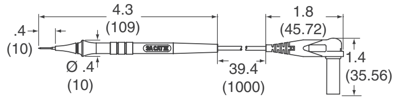

Fig. 5

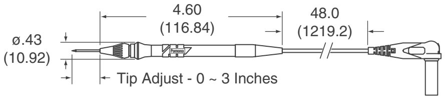

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	IEC 1010 Compliant Replacement Test Leads for Sheathed Style DMM's, Includes: One Red and One Black	501-1004-ND	13.86	12.53	5519A
2	Wide Jaw Kelvin Lead Set, Includes: One Red and One Black	501-1102-ND	123.49	111.59	6730
3	SMD Test Probe Set, Includes: One Red and One Black	501-1246-ND	25.45	23.00	6235
4	Precision Electronic Probe with Replaceable Tip Includes: One Red and One Black	501-1248-ND	18.63	16.83	6275
5	Retractable Tip Test Probe Set, Sheathed DMM Plug	501-1249-ND	23.79	21.50	5953A
	Kits				
	Electrical DMM				
—	Electrical DMM Test Lead Kit, Model 5673B Deluxe Multi-use DMM Maxi-Test Lead Kit, Model 5677B	501-1002-ND 501-1000-ND	56.29 119.15	50.87 107.67	5673B 5677B
	SMD Test Kits				
—	SMD Multi-Use Test Kit	501-1223-ND	137.07	123.86	72928
—	SMD High Density Circuit Test Kit	501-1239-ND	186.92	168.90	72935

Oscilloscope Probes

Features: • All Probes meet IEC1010-2-031, 300V, CAT I **Probes Include:** • Retractable Hook Tip • BNC Adapter • IC Adapter • Insulating Tip • Trimmer Tool • 6" (152.40mm) Ground Lead with Alligator Clip

Probe Ratio	System Bandwidth MHz (-3db)	Cable Length Meters	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1:1 10:1	Up ~ 20[3] 60	1.2	501-1012-ND	41.12	37.16	6266
1:1 10:1	Up ~ 15[3] 100	1.2	501-1007-ND	58.88	53.21	4550B
1:1 10:1	Up ~ 20[3] 200	1.2	501-1008-ND◆	67.40	60.90	5806A
100:1	200	2.0	501-1010-ND◆	108.32	97.88	5827A
10:1	250	1.2	501-1011-ND	62.52	56.49	6069A
10:1	300	1.2	501-1009-ND	114.81	103.74	5812A

◆ ***RoHS Compliant***

Adapter Kits

Universal Adapter Kit (Model 5698) Includes:

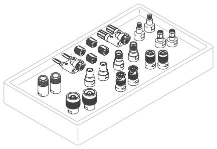

• Type "N" Male and Female • BNC Male and Female • TNC Male and Female • SMA Male and Female • Coupling Adapter • Double Banana Plug • Double Binding Post

501-1034-ND **$184.16**

Maxi Universal Adapter Kit (Model 5748) Includes:

• Type "N" Male and Female • BNC Male and Female • TNC Male and Female • SMA Male and Female • Coupling Nut • Double Banana Plug • UHF Male and Female • Mini UHF Male and Female • RCA Phono Male and Female • Type "F" Male and Female • Unidapt Signal Sampler

501-1035-ND **$297.95**

7/16 DIN Type "N" Adapter Kit (Model 6254) Includes:

• Type "N" Male to DIN Male • Type "N" Female to DIN Male • Type "N" Male to DIN Female • Type "N" Female to DIN Female • DIN Female to Female • Right Angle Male to Female

501-1121-ND **$530.93**

SMA Adapter Kit (Model 72931) Includes:

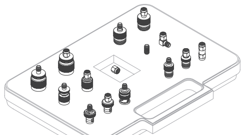

• Right Angle SMA Female to SMA Male • Inline SMA Male to SMA Male • Inline SMA Female to SMA Female • SMA Male Terminator Plug • SMA Female to BNC Male • SMA Male to BNC Female • SMA Female to BNC Female • SMA Male to TNC Male • SMA Female to TNC Male • SMA Male to TNC Female • SMA Female to TNC Female • SMA Male to Type "N" Male • SMA Female to Type "N" Male • SMA Male to Type "N" Female • SM A Female to Type "N" Female

501-1235-ND **$252.44**

N Adapter Kit (Model 72932) Includes:

• Type "N" Male to 50Ω BNC Female • Type "N" Female to 50Ω BNC Male • Inline Type "N" Female to Type "N" Female • Inline Type "N" Male to Type "N" Male • Right Angle Type "N" Female to Type "N" Male• Type "N" Male to SMA Male • Type "N" Male to SMA Female • Type "N" Female to SMA Male • Type "N" Female to SMA Female • T Style Type "N" Female to Type "N" Female to Type "N" Female • 50Ω Type "N" Terminator Plug • 75Ω Type "N" Terminator Plug

501-1236-ND **$309.87**

Multi-RF Direct Adapter Kit (Model 72934) Includes:

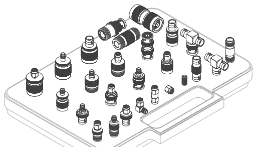

• BNC Male to Type "N" Female • BNC Female to Type "N" Male • TNC Male to BNC Female • SMA Male to BNC Male • SMA Male to BNC Female • SMA Female to BNC Male • SMA Female to BNC Female • SMA Male to Type "N" Female • SMA Female to Type "N" Male • SMA Female to Type "N" Female • SMA Male to TNC Male • SMA Male to TNC Female • SMA Female to TNC Male • SMA Female to TNC Female • SMA Male to Type "N" Male • BNC Female to Female • BNC Male to Male • BNC Female to Male to Female TEE • BNC Female to Female to Female TEE • TNC Female to Female Adapter • Type "N" Female to Female • Type "N" Male to Male • SMA Male to Female Right Angle • SMA Male to Male • SMA Female to Female • SMA Termination, 50Ω Male

501-1238-ND **$388.97**

Broadcast BNC Adapter Kit (Model 72933) Includes:

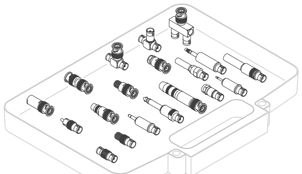

• 75Ω BNC Female to Female Adapter • 75Ω BNC Female to Female to Female Adapter • 75Ω BNC Female to Male to Female Adapter • 75Ω BNC Male to Male Adapter • BNC Female to Male to Female Adapter, In-Line, 75Ω • BNC Male to Female to Female, 75Ω • BNC Female to Female to Female, 75Ω • BNC Female to Female to Male, 75Ω • BNC Male to Female to Male, 75Ω • Adapter, BNC Female, Phono Plug • BNC Female to Tini Plug • Adapter, BNC Male, Phono Jack • BNC Female to Microplug • BNC Female to Phono Plug • BNC Male to Phono Jack Adapter • BNC Femael to Bantam Plug • BNC Female to .090 Video Plug • BNC to Mini-WECO Adapter • BNC Male Resistor Terminator Plug, 75Ω

501-1237-ND **$238.34**

NEW! Wire Test Leads

Description	Length (feet)	Color	Digi-Key Part No.	Price Each 1	10	100	Pomona Part No.
Model 6733 with Silicone Insulation	50	Black	501-1281-ND	19.94	18.02	17.18	6733-0
Model 6733 with Silicone Insulation	50	Red	501-1282-ND	19.94	18.02	17.18	6733-2

(Continued)

Accessories

Fig. 1
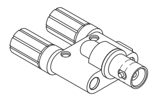

Fig. 2
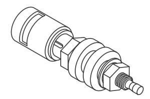

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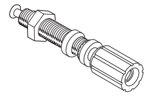

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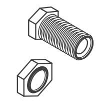

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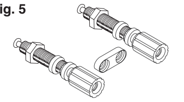
Accepts standard banana plugs

Fig. 6
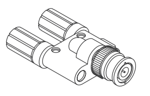

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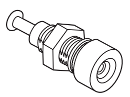

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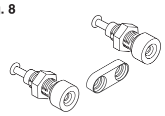

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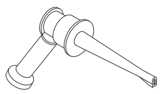

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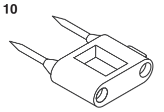

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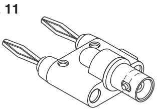

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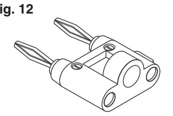

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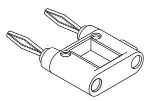

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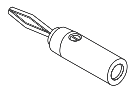

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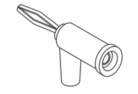

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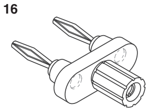

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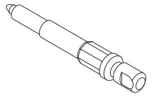

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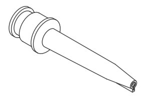

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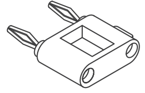

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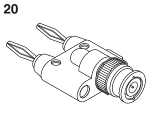

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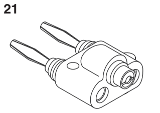

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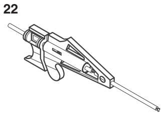

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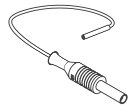

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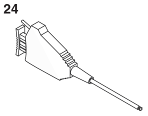

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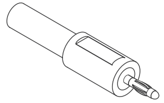

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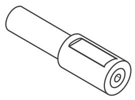

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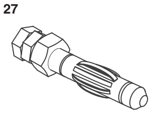

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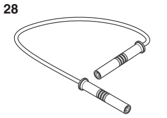

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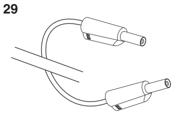

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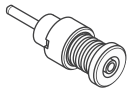

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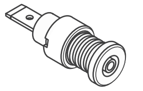

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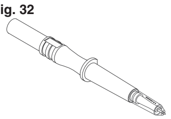

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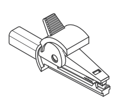

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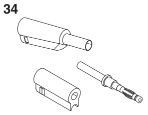

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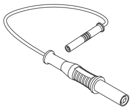

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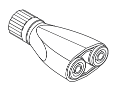

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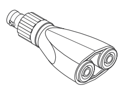

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Pomona Part No.
1	Adapter-Binding Posts to BNC Recept. (one red, one black)	501-1122-ND	11.70	10.58	1452
2	Spring Loaded, Nickel Plated Brass, Black	501-1088-ND	20.25	18.30	4995-0
	Spring Loaded, Nickel Plated Brass, Red	501-1089-ND	20.25	18.30	4995-2
3	Standard, Tin Plated Brass, Black	501-1094-ND	3.02	2.73	3760-0
	Standard, Tin Plated Brass, Red	501-1095-ND	3.02	2.73	3760-2
4	Standard, Uninsulated, Nickel Plated Brass	501-1115-ND†	10.72	9.69	3267
5	Double Binding Post Assembly, Black	501-1126-ND	6.44	5.82	4243-0
6	BNC (Male) to Double Stacking Binding Post Jack	501-1033-ND	13.86	12.53	1296
7	Insulated Pin Tip, Gold Plated, Black	501-1091-ND†	27.57	24.92	3542-0
	Insulated Pin Tip, Gold Plated, Red	501-1092-ND†	27.57	24.92	3542-2
	Panel Mount Jack, Black	501-1078-ND†	14.33	12.95	1581-0
	Panel Mount Jack, Brown	501-1079-ND†	14.33	12.95	1581-1
	Panel Mount Jack, Red	501-1080-ND†	14.33	12.95	1581-2
	Panel Mount Jack, Orange	501-1081-ND†	14.33	12.95	1581-3
	Panel Mount Jack, Yellow	501-1082-ND†	14.33	12.95	1581-4
	Panel Mount Jack, Green	501-1083-ND†	14.33	12.95	1581-5
	Panel Mount Jack, Blue	501-1084-ND†	14.33	12.95	1581-6
	Panel Mount Jack, Violet	501-1085-ND†	14.33	12.95	1581-7
	Panel Mount Jack, Gray	501-1086-ND†	14.33	12.95	1581-8
	Panel Mount Jack, White	501-1087-ND†	14.33	12.95	1581-9
	Panel Mount Jack for Sheathed Plugs, Black (Threaded Stud)	501-1187-ND†	29.03	26.24	72912-0
	Panel Mount Jack for Sheathed Plugs, Red (Threaded Stud)	501-1188-ND†	29.03	26.24	72912-2
	Panel Mount Jack for Sheathed Plugs, Black (Solder Tab)	501-1189-ND†	24.92	22.52	72913-0
	Panel Mount Jack for Sheathed Plugs, Red (Solder Tab)	501-1190-ND†	24.92	22.52	72913-2
	Panel Mount Jack, Black (Threaded Stud, Hexagonal Nut)	501-1226-ND†	19.70	17.81	72930-0
	Panel Mount Jack, Brown (Threaded Stud, Hexagonal Nut)	501-1227-ND†	19.70	17.81	72930-1
	Panel Mount Jack, Red (Threaded Stud, Hexagonal Nut)	501-1228-ND†	19.70	17.81	72930-2
	Panel Mount Jack, Yellow (Threaded Stud, Hexagonal Nut)	501-1229-ND†	19.70	17.81	72930-4
	Panel Mount Jack, Green (Threaded Stud, Hexagonal Nut)	501-1230-ND†	19.70	17.81	72930-5
	Panel Mount Jack, Blue (Threaded Stud, Hexagonal Nut)	501-1231-ND†	19.70	17.81	72930-6
	Panel Mount Jack, Violet (Threaded Stud, Hexagonal Nut)	501-1232-ND†	19.70	17.81	72930-7
	Panel Mount Jack, Gray (Threaded Stud, Hexagonal Nut)	501-1233-ND†	19.70	17.81	72930-8
	Panel Mount Jack, White (Threaded Stud, Hexagonal Nut)	501-1234-ND†	19.70	17.81	72930-9
8	Miniature Insulated Jack, (one red, one black), Plate: Black	501-1124-ND	3.88	3.51	2143-0
9	Minigrabber® with Banana Jack, Black	501-1097-ND	5.20	4.70	4723-0
	Minigrabber with Banana Jack, Red	501-1098-ND	5.20	4.70	4723-2
10	Miniature Tip Plug with Shorting Bar, Black	501-1090-ND	5.30	4.79	3452-0
11	BNC (Female) to Double Stacking Banana Plugs	501-1032-ND	7.47	6.75	1269
12	Stackable Double with Cable Guide, Black	501-1071-ND	2.71	2.45	MDP-0
	Stackable Double with Cable Guide, Red	501-1072-ND	2.71	2.45	MDP-2
13	Double with Shorting Wire, Black	501-1073-ND	4.28	3.87	MDP-S-0
14	Solderless Stackable Type for Std., Nickel, Black	501-1074-ND†	15.49	14.00	1325-0
	Solderless Stackable Type for Std., Nickel, Red	501-1075-ND†	15.49	14.00	1325-2
15	Solderless Stackup with Safety Collar, Black	501-1076-ND†	15.49	14.00	1825-0
	Solderless Stackup with Safety Collar, Red	501-1077-ND†	15.49	14.00	1825-2
	Solderless Stackup with Safety Collar, Green	501-1247-ND†	15.49	14.00	1825-5
16	Encapsulated Double, Short Bar with Binding Post, Black	501-1093-ND	11.87	10.73	5165-0
17	Do-It-Yourself Retractable Sheath, with Instructions, Black	501-1119-ND	4.53	4.10	122505A
	Do-It-Yourself Retractable Sheath, with Instructions, Red	501-1120-ND	4.53	4.10	122506A
18	Do-It-Yourself Minigrabber Test Clip, Black	501-1244-ND†	17.21	15.56	3925-0
	Do-It-Yourself Minigrabber Test Clip, Red	501-1245-ND†	17.21	15.56	3925-2
19	Miniature Shorting Bar Plug, Black	501-1125-ND	5.74	5.19	2035-0
20	BNC (Male) to Double Stacking	501-1127-ND	10.82	9.78	1270
21	Phono Jack to Double Banana Plug	501-1129-ND	14.08	12.72	1442
22	Micro Grabber Test Clip Kit (12 Clips, 12 Leads and 6 Rods)	501-1171-ND	195.00	176.21	72902
	Micro Grabber Test Clip, Black	501-1172-ND	12.35	11.16	72902-0
	Micro Grabber Test Clip, Red	501-1173-ND	12.35	11.16	72902-2
	Holding Rod for Micro Clip	501-1174-ND†	12.35	11.16	72903
23	Clip Lead for Micro Grabber, Black (0.8mm/2mm)	501-1175-ND	5.41	4.89	72904-0
	Clip Lead for Micro Grabber, Red (0.8mm/2mm)	501-1176-ND	5.41	4.89	72904-2
	Clip Lead for Micro Grabber, Black (0.8mm/4mm)	501-1177-ND	5.41	4.89	72905-0
	Clip Lead for Micro Grabber, Red (0.8mm/4mm)	501-1178-ND	5.41	4.89	72905-2
24	Mini SMD Grabber Test Clip, Black	501-1179-ND	10.08	9.11	72906-0
	Mini SMD Grabber Test Clip, Red	501-1180-ND	10.08	9.11	72906-2
25	Safety Banana Jack to Banana Plug Adapter, Black	501-1191-ND†	24.27	21.93	72914-0
	Safety Banana Jack to Banana Plug Adapt. (one red, one blk.)	501-1192-ND	4.85	4.38	72914-02
	Safety Banana Jack to Banana Plug Adapter, Red	501-1193-ND†	24.27	21.93	72914-2
	Sheathed Jack to Unsheathed Plug Adapter, Black	501-1194-ND†	27.84	25.16	72915-0
	Sheathed Jack to Unsheathed Plug Adapter, Red	501-1195-ND†	27.84	25.16	72915-2
	Banana Plug to Sheathed Banana Jack Adapter, Black	501-1198-ND†	22.64	20.46	72917-0
	Banana Plug to Sheathed Banana Jack Adapter, Red	501-1199-ND†	22.64	20.46	72917-2
26	Banana Jack to Banana Jack Adapter, Black	501-1196-ND†	24.27	21.93	72916-0
	Banana Jack to Banana Jack Adapter, Red	501-1197-ND†	24.27	21.93	72916-2
27	4mm Banana Plug with Threaded M3 Stud	501-1200-ND†	9.96	9.00	72918
28	2mm Safety Sheathed Patch Cord, Black, 20”	501-1201-ND	5.84	5.28	72919-20-0
	2mm Safety Sheathed Patch Cord, Red, 20”	501-1202-ND	5.84	5.28	72919-20-2
	2mm Safety Sheathed Patch Cord, Black, 39”	501-1203-ND	6.27	5.67	72919-39-0
	2mm Safety Sheathed Patch Cord, Red, 39”	501-1204-ND	6.27	5.67	72919-39-2
29	Multi-stacking 2mm Safety Sheathed Patch Cord, Black, 20”	501-1205-ND	6.27	5.67	72920-20-0
	Multi-stacking 2mm Safety Sheathed Patch Cord, Red, 20”	501-1206-ND	6.27	5.67	72920-20-2
	Multi-stacking 2mm Safety Sheathed Patch Cord, Black, 39”	501-1207-ND	6.71	6.06	72920-39-0
	Multi-stacking 2mm Safety Sheathed Patch Cord, Red, 39”	501-1208-ND	6.71	6.06	72920-39-2
30	Safety Sheathed Jack, Black	501-1209-ND	2.26	2.04	72921-0
	Safety Sheathed Jack, Red	501-1210-ND	2.26	2.04	72921-2
31	Safety Sheathed Jack with Solder Tab, Black	501-1211-ND	1.94	1.76	72922-0
	Safety Sheathed Jack with Solder Tab, Red	501-1212-ND	1.94	1.76	72922-2
32	Test Probe with Sharp, Spring Mounted Tip, Black	501-1213-ND	10.79	9.75	72923-0
	Test Probe with Sharp, Spring Mounted Tip, Red	501-1214-ND	10.79	9.75	72923-2
33	Mini-alligator Clip with 2mm Jack, Black	501-1215-ND	5.94	5.37	72924-0
	Mini-alligator Clip with 2mm Jack, Red	501-1216-ND	5.94	5.37	72924-2
34	Do-It-Yourself 2mm Stackable Safety Sheathed Plug, Black	501-1217-ND	3.14	2.84	72925-0
	Do-It-Yourself 2mm Stackable Safety Sheathed Plug, Red	501-1218-ND	3.14	2.84	72925-2
35	2mm/4mm Male-Male Test Lead, Black	501-1240-ND	5.99	5.42	72936-0
	2mm/4mm Male-Male Test Lead, Red	501-1241-ND	5.99	5.42	72936-2
36	Insulated BNC (m) to 2 Male Banana 4mm Plugs	501-1185-ND	14.62	13.22	72910
	Insulated BNC (m) to 2 4mm Banana Jacks	501-1242-ND	15.12	13.67	72937
37	Insulated BNC (f) to 2 Male Banana 4mm Plugs	501-1186-ND	18.19	16.44	72911
	Insulated BNC (f) to 2 4mm Banana Jacks	501-1243-ND	18.84	17.03	72938

† Package of 10

(Continued)

Cable Assemblies

Dimensions in Inches

Fig. 1

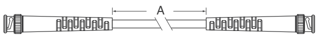

Fig. 2

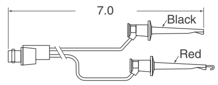

Fig. 3

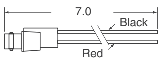

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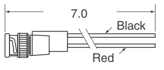

Fig. 5

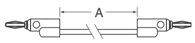

Fig. 6

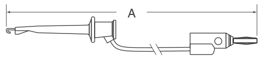

Fig. 7

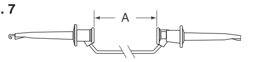

Fig. 8

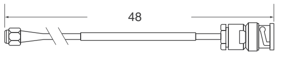

Fig. 9

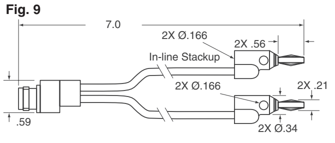

Fig. 10

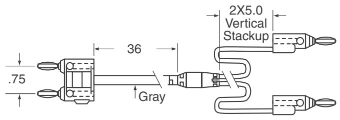

Fig. 11

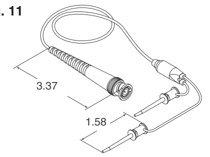

Fig. 12

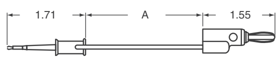

Fig. 13

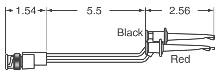

Fig. 14

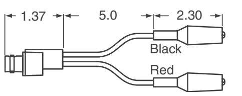

Fig. 15

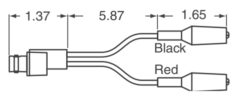

Fig. 16

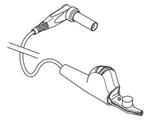

Fig. 17

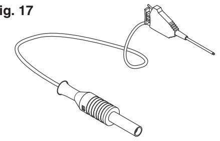

Fig. 18

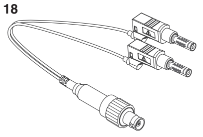

Fig. 19

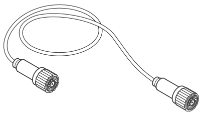

Fig. 20

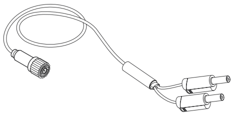

Fig. 21

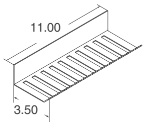

Model 2249: **Materials:** • Body: Brass, Tarnish resistant plating • Dielectric: PTFE • Center contact: Gold Plated Brass • Strain Relief: PVC molded directly to cable connectors **Ratings:** • Operating Voltage: Shield/Earth: 30VAC/60VDC maximum, Inner Conductor/Shield: 500VRMS maximum • Operating Temperature: 50°C (122°F) maximum
Model 3788: Minigrabber® test clip hooks attach to terminal sizes up to .060" diameter

Fig.	Description	Color	Dim. A Inch	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	BNC Male to BNC Male, RG58C/U, 50Ω	Black	12	501-1013-ND◆	15.16	13.70	2249-C-12
		Black	24	501-1016-ND◆	15.16	13.70	2249-C-24
		Black	36	501-1018-ND◆	15.16	13.70	2249-C-36
		Black	48	501-1019-ND◆	19.06	17.22	2249-C-48
		Black	60	501-1020-ND◆	19.06	17.22	2249-C-60
		Black	72	501-1021-ND◆	19.06	17.22	2249-C-72
		Black	120	501-1014-ND◆	22.74	20.55	2249-C-120
		Black	180	501-1015-ND◆	27.52	24.87	2249-C-180
		Black	300	501-1017-ND◆	37.48	33.87	2249-C-300
	BNC Male to BNC Male, RG59B/U, 75Ω	Black	12	501-1022-ND◆	16.25	14.69	2249-E-12
		Black	24	501-1024-ND◆	16.25	14.69	2249-E-24
		Black	36	501-1025-ND◆	16.25	14.69	2249-E-36
		Black	48	501-1026-ND◆	19.17	17.33	2249-E-48
		Black	60	501-1027-ND◆	19.17	17.33	2249-E-60
		Black	72	501-1028-ND◆	19.06	17.22	2249-E-72
		Black	120	501-1023-ND◆	22.96	20.75	2249-E-120
2	BNC Female to Minigrabber® Test Clip Breakout	—	—	501-1029-ND◆	10.72	9.69	3788
3	BNC (Female) to 20AWG Leads	—	—	501-1030-ND◆	7.24	6.54	4969
4	BNC (Male) to 20AWG Leads	—	—	501-1031-ND◆	9.96	9.00	4970
5	Stacking Banana Plug both Ends	Black	12	501-1041-ND◆	4.53	4.10	B-12-0
		Red	12	501-1042-ND◆	4.53	4.10	B-12-2
		Black	18	501-1043-ND◆	4.65	4.20	B-18-0
		Red	18	501-1044-ND◆	4.65	4.20	B-18-2
		Black	24	501-1045-ND◆	4.76	4.31	B-24-0
		Red	24	501-1046-ND◆	4.76	4.31	B-24-2
		Black	36	501-1047-ND◆	4.76	4.31	B-36-0
		Red	36	501-1048-ND◆	4.76	4.31	B-36-2
		Black	48	501-1049-ND◆	4.86	4.40	B-48-0
		Red	48	501-1050-ND◆	4.86	4.40	B-48-2
		Black	72	501-1051-ND◆	5.08	4.59	B-72-0
		Red	72	501-1052-ND◆	5.08	4.59	B-72-2
6	Minigrabber Test Clip to Stacking Banana Plug	Black	12	501-1054-ND◆	5.51	4.98	3782-12-0
		Red	12	501-1055-ND◆	5.51	4.98	3782-12-2
		Black	24	501-1056-ND◆	5.51	4.98	3782-24-0
		Red	24	501-1057-ND◆	5.63	5.09	3782-24-2
		Black	36	501-1058-ND◆	5.74	5.19	3782-36-0
		Red	36	501-1059-ND◆	5.74	5.19	3782-36-2

Fig.	Description	Color	Dim. A Inch	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
6	Minigrabber Test Clip to Stacking Banana Plug	Black	48	501-1060-ND◆	5.84	5.28	3782-48-0
		Red	48	501-1061-ND◆	5.84	5.28	3782-48-2
7	Minigrabber Test Clip Patch Cord	Black	12	501-1062-ND◆	4.28	3.87	3781-12-0
		Red	12	501-1063-ND◆	4.28	3.87	3781-12-2
		Black	24	501-1064-ND◆	4.28	3.87	3781-24-0
		Red	24	501-1065-ND◆	4.28	3.87	3781-24-2
		Black	36	501-1066-ND◆	4.28	3.87	3781-36-0
		Red	36	501-1067-ND◆	4.28	3.87	3781-36-2
	Minigrabber Test Clip Patch Cord Kit*	—	24	501-1068-ND◆	41.12	37.16	5523
8	BNC (Male) to SMA (Male), RG316/U	—	48	501-1116-ND◆	46.26	41.81	4935-BB-48
9	BNC (Female) to Multi-Stacking Banana Plugs	Red/Blk	—	501-1117-ND◆	10.29	9.30	3073
10	Double Banana Plug to Single Banana Plug Breakouts	Red/Blk	36	501-1123-ND◆	27.52	24.87	1368-A-36
11	BNC Male to SMD Grabber® Test Clips	Red/Blk	24†	501-1162-ND◆	27.04	24.44	5304-K-24
			36†	501-1163-ND◆	27.04	24.44	5304-K-36
12	SMD Grabber to Stacking Banana Plug	Black	12	501-1164-ND◆	7.47	6.75	5302-12-0
		Red	12	501-1165-ND◆	7.47	6.75	5302-12-2
		Black	24	501-1166-ND◆	7.54	6.81	5302-24-0
		Red	24	501-1167-ND◆	7.54	6.81	5302-24-2
		Black	36	501-1168-ND◆	7.69	6.95	5302-36-0
		Red	36	501-1169-ND◆	7.69	6.95	5302-36-2
13	BNC Male to Minigrabber Test Clip Breakout	Red/Blk	—	501-1137-ND◆	13.21	11.94	3789
14	BNC Female to Alligator Test Clips	Red/Blk	—	501-1130-ND◆	11.04	9.98	2630
15	BNC Female to Minigator Test Clips	Red/Blk	—	501-1131-ND◆	11.04	9.98	2631
16	5 Way Alligator to Sheathed Right Angle Set	Red/Blk	48†	501-1170-ND◆	31.37	28.35	6483-48-02
17	Mini SMD Grabber Test Lead, 2mm Jack	Black	20†	501-1181-ND◆	15.49	14.00	72907-20-0
		Red	20†	501-1182-ND◆	15.49	14.00	72907-20-2
	Mini SMD Grabber Test Lead, 4mm Jack	Black	20†	501-1224-ND◆	14.51	13.11	72929-20-0
		Red	20†	501-1225-ND◆	14.51	13.11	72929-20-2
18	IEC Insulated BNC (F) Stackable 4mm Plugs	Black	10†	501-1184-ND◆	17.55	15.86	72909
19	IEC Insulated BNC Male 50Ω Cable	Black	40†	501-1219-ND◆	12.88	11.64	72926-C-40
		Black	80†	501-1220-ND◆	14.62	13.22	72926-C-80
20	IEC Insulated BNC (M) Stackable 4mm Plugs	Black	10†	501-1183-ND◆	15.99	14.45	72908
	Insulated BNC Male/4mm Plugs	Black	40†	501-1221-ND◆	18.38	16.61	72927-C-40
		Black	80†	501-1222-ND◆	20.53	18.56	72927-C-80
	Test Cable Holders (Cold Rolled Steel)						
21	Accepts Cable Size Types RG 59 and RG 108	Black	—	501-1113-ND	9.69	8.76	4408/POM
	Accepts Cable Size Types RG 213 and RG 214	Blue	—	501-1114-ND	11.87	10.73	2708
	Accepts Cable Size Types RG 58 and RG 142	Orange	—	501-1053-ND	11.87	10.73	1508/POM

◆ ***RoHS Compliant*** *** Kit contains 10 Pieces of Model 3781-24** *(One of each color: Black, Red, Brown, Orange, Yellow, Green, Blue, Violet, Gray and White)* † Overall length

3M Patch Cords and Accessories

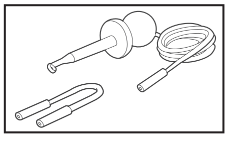

Compatible with 3M breadboards, terminal strips, super-strips, distribution strips, test clips, miniature 8-pin connectors and .025" (.64mm) square wrap posts.
- Ideal for breadboarding and troubleshooting
- Incorporate 26AWG stranded wire with PVC insulation
- Rugged, integral strain relief
- Choices of two pin sizes — .019" and .030" (.48mm and .76mm), and two socket sizes — .019" ~ .028" and .028" ~ .035" (.48mm ~ .71mm and .71mm ~ .89mm) and E-Z Hook terminations

ASSORTMENT A (20 Pieces) — 9 pieces 2" (50.80mm) long yellow, 6 pieces 4" (101 .60mm) long blue, 3 pieces 6" (152.40mm) long red, 2 pieces 9" (228.60mm) long black
ASSORTMENT B (10 Pieces) — 5 pieces 15" (381mm) long red, 5 pieces 15" (381mm) long black

Pin/Socket – Size Inch	mm	Color/Length Assortment	Pieces/ Pack	Recommended Applications	Digi-Key Part No.	Price Per Pack
				Pin Plug to Pin Plug		
.019	.48	Assortment A	20	IC Sockets	924961-ND	54.46
.030	.76	Assortment A	20	Breadboard	924962-ND	54.46
				Socket to Socket		
.019/.028	.48/.71	Assortment A	20	Extension for .019" (.48mm) Pin Plug	924963-ND	97.82
.028/.035	.71/.89	Assortment A	20	TC to TC, TC to .025" (.64mm) Square Post	924964-ND	113.42
				Pin Plug to Socket		
.019 (.019/.028)	.48 (.48/.71)	Assortment A	20	IC Socket to .019" (.48mm) Pin Plug	924965-ND	76.06
.030 (.028/.035)	.76 (.71/.89)	Assortment A	20	Breadboard to TC, .025" (.64mm) Sq. Post	924966-ND	76.86
				Pin Plug to E-Z Hook		
.019	.48	Assortment B	10	IC Socket to TC, .025" (.64mm) Sq. Post, etc.	924967-ND	77.04
.030	.76	Assortment B	10	Breadboard to TC, .025" (.64mm) Post, etc.	924968-ND	49.04
				Socket to E-Z Hook		
.028/.035	.71/.89	Assortment B	10	TC, .025" Post to TC, .025" (.64mm) Post, etc.	924970-ND	55.54

Test Equipment - Clips

Fig. 1

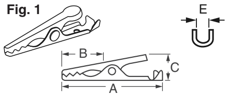

Model BU-30/BU-30C shown

Fig. 2

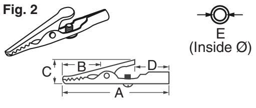

Model BU-60S/BU-60CS shown

Fig. 3

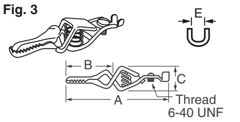

Fig. 4

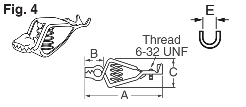

Model BU-48/BU-48C shown

Fig. 5

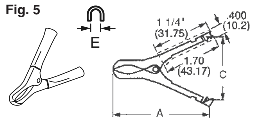

Fig	Description	Dimensions – Inch (mm) A	B	C	D	E	Jaw Opening Inch (mm)	Current Rating	Material	Connection Type	Digi-Key Part No.	Price Each	Mueller Part No.
1	Mini Alligator Clip	1-3/32 (27.78)	7/16 (11.11)	5/16 (7.94)	—	3/32 (2.38)	3/16 (4.8)	5A	Steel	Solder/Crimp	314-1010-ND◆	.23	BU-30
	Mini Alligator Clip	1-3/32 (27.78)	7/16 (11.11)	5/16 (7.94)	—	3/32 (2.38)	3/16 (4.8)	5A	Copper	Solder/Crimp	314-1012-ND◆	.35	BU-30C
	Micro Alligator Clip	1-3/32 (27.78)	3/8 (9.52)	5/16 (7.94)	—	3/32 (2.38)	7/32 (5.6)	5A	Steel	Solder/Crimp	314-1017-ND◆	.42	BU-34
	Micro Alligator Clip	1-3/32 (27.78)	3/8 (9.52)	5/16 (7.94)	—	3/32 (2.38)	7/32 (5.6)	5A	Copper	Solder/Crimp	314-1018-ND◆	.56	BU-34C
2	Mini Alligator Clip with Barrel	1-1/4" (31.75)	7/16 (11.11)	5/16 (7.94)	1/4 (6.35)	1/8 (3.17)	3/16 (4.8)	5A	Steel	Solder/Crimp	314-1011-ND◆	.22	BU-30BL
	Alligator Clip with Barrel	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10A	Steel	Solder/Crimp	314-1033-ND◆	.28	BU-60
	Alligator Clip with Barrel and Screw	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10A	Copper	6/40Screw	314-1034-ND◆	.70	BU-60CS
	Alligator Clip with Barrel and Screw	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10A	Steel	6/40Screw	314-1035-ND◆	.38	BU-60S
	Alligator Clip with Barrel	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10A	Stainless Steel	Solder/Crimp	314-1036-ND◆	.78	BU-60X
3	Crocodile Clip	2-1/8 (53.97)	15/16 (23.81)	1/2 (12.7)	—	9/64 (3.57)	5/16 (7.9)	5A	Steel	Crimp/6-40 Screw	314-1039-ND◆	.52	BU-85
	Crocodile Clip	2-1/8 (53.97)	15/16 (23.81)	1/2 (12.7)	—	9/64 (3.57)	5/16 (7.9)	10A	Copper	Crimp/6-40 Screw	314-1040-ND◆	1.01	BU-85C
4	Heavy Duty Clip	2-27/32 (72.23)	7/16 (11.11)	1-1/8 (28.57)	—	1/4 (6.35)	3/4 (19)	25	Steel	Crimp/8-32 Screw	314-1001-ND◆	1.07	BU-24APN
	Automotive Clip	3 (76.2)	21/32 (16.67)	15/16 (23.81)	—	9/32 (7.15)	3/4 (19)	40	Steel	Crimp/8-32 Screw	314-1002-ND◆	.94	BU-25
	Automotive Clip	3 (76.2)	21/32 (16.67)	15/16 (23.81)	—	9/32 (7.15)	3/4 (19)	75	Copper	Crimp/8-32 Screw	314-1003-ND◆	2.34	BU-25C
	General Purpose Clip	2-7/16 (61.91)	17/32 (13.49)	11/16 (17.46)	—	3/16 (4.76)	5/8 (16)	20	Steel	Crimp/6-32 Screw	314-1006-ND◆	.67	BU-27
	General Purpose Clip	2-7/16 (61.91)	17/32 (13.49)	11/16 (17.46)	—	3/16 (4.76)	5/8 (16)	40	Copper	Crimp/6-32 Screw	314-1007-ND◆	1.11	BU-27C
	Pee-Wee Clip	1-17/32 (38.89)	1/4 (6.35)	15/32 (11.91)	—	9/64 (3.57)	5/16 (7.9)	5	Steel	Crimp/6-40 Screw	314-1021-ND◆	.46	BU-45
	Pee-Wee Clip	1-17/32 (38.89)	1/4 (6.35)	15/32 (11.91)	—	9/64 (3.57)	5/16 (7.9)	10	Copper	Crimp/6-40 Screw	314-1022-ND◆	.77	BU-45C
	Automotive Analyzer Clip	2 (50.80)	3/8 (9.52)	5/8 (15.88)	—	3/16 (4.76)	1/2 (12.7)	10	Steel	Crimp/6-32 Screw	314-1029-ND◆	.62	BU-48B
	Automotive Analyzer Clip	2 (50.80)	3/8 (9.52)	5/8 (15.88)	—	3/16 (4.76)	1/2 (12.7)	20	Copper	Crimp/6-32 Screw	314-1030-ND◆	.86	BU-48C
5	Miniature Plier-Type Clip, Black	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	50	Steel	Crimp/Solder	314-1023-ND◆	.89	BU-46A-0
	Miniature Plier-Type Clip, Red	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	50	Steel	Crimp/Solder	314-1024-ND◆	.89	BU-46A-2
	Miniature Plier-Type Clip, Black	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	75	Copper	Crimp/Solder	314-1025-ND	1.58	BU-46C-0
	Miniature Plier-Type Clip, Red	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	75	Copper	Crimp/Solder	314-1026-ND	1.58	BU-46C-2

◆ *RoHS Compliant*

Insulators

Description	Color	Use with Series	Digi-Key Part No.	Price Each	Mueller Part No.
Protective Vinyl Insulator	Black Red	BU-24APN/ 25/25C	314-1004-ND◆ 314-1005-ND◆	.84 .84	BU-26-0 BU-26-2
Flexible Vinyl Insulator	Black Red	BU-27/27C	314-1008-ND◆ 314-1009-ND◆	.56 .56	BU-29-0 BU-29-2
Tough, Flexible Vinyl Insulator	Black Red	BU-30BL	314-1013-ND◆ 314-1014-ND◆	.19 .19	BU-31-0 BU-31-2
Skin-tight, Flexible Vinyl Insulator	Black Red	BU-30/30C	314-1015-ND◆ 314-1016-ND◆	.17 .17	BU-32-0 BU-32-2
Skin-tight, Flexible Vinyl Insulator	Black Red	BU-34/34C	314-1019-ND◆ 314-1020-ND◆	.17 .17	BU-36-0 BU-36-2
Durable, Flexible Vinyl Insulator	Black Red	BU-45/45C	314-1027-ND 314-1028-ND	.21 .21	BU-47-0 BU-47-2
Durable, Flexible Vinyl Insulator	Black Red	BU-48B/48C	314-1031-ND◆ 314-1032-ND◆	.50 .50	BU-49-0 BU-49-2
Tough, Flexible Vinyl Insulator	Black Red	BU-60/60CS/ 60/S/60X	314-1037-ND◆ 314-1038-ND◆	.19 .19	BU-62-0 BU-62-2
Tough, Flexible Vinyl Insulator	Black Red	BU-85/85C	314-1041-ND◆ 314-1042-ND◆	.33 .33	BU-87-0 BU-87-2

◆ *RoHS Compliant*

CUI INC

Alligator Clips

Fig. 1

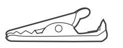

Fig. 2

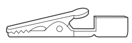

Fig. 3 – Large w/ Screw Connector

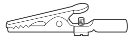

Fig. 4 – Small w/ Solder Connector

Fig. 5 – X-Large Barrel Type w/ Solder Connector

Fig. 6

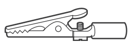

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	CUI Part No.
1	Without Cover, 27mm	CP-2400-ND	.36	.30	.23	103A
	Without Cover, 35mm	CP-2401-ND	.36	.30	.23	105A
	Without Cover, 44mm	CP-2402-ND	.36	.30	.23	110AR
	With Screw, 44mm	CP-2405-ND	.44	.36	.28	110ARS
2	Without Cover, 50mm	CP-2403-ND	.40	.33	.25	110AN
3	With Wire Terminals, 50mm	CP-2404-ND	.44	.36	.28	110AS
4	With Cover, Black, 27mm	CP-2406-ND	.44	.36	.28	103A-C-BK
	With Cover, Red, 27mm	CP-2407-ND	.44	.36	.28	103A-C-RD
5	With Cover, Black, 35mm	CP-2408-ND	.44	.36	.28	105A-C-BK
	With Cover, Red, 35mm	CP-2409-ND	.44	.36	.28	105A-C-RD
	With Cover, Black, 44mm	CP-2410-ND	.52	.43	.33	110AR-C-BK
	With Cover, Red, 44mm	CP-2411-ND	.52	.43	.33	110AR-C-RD
	With Screw & Cover, Black, 44mm	CP-2412-ND	.60	.49	.38	110ARS-C-BK
	With Screw & Cover, Red, 44mm	CP-2413-ND	.60	.49	.38	110ARS-C-RD
6	With Handle, Black, 50mm	CP-2414-ND	.52	.43	.33	110AS-P-BK
	With Handlem, Red, 50mm	CP-2415-ND	.52	.43	.33	110AS-P-RD

3M Electronic Specialty Products

Probe-It

Specifications: Contact: Phosphor bronze, Solder Type Termination. **Body:** Nylon. 3M new series of Probe-It™ plunger-actuated clips make test connections to individual component leads faster and easier. Simply press cap to extend the hook contact, place on component lead or wire under test, and release for hands-free troubleshooting and circuit testing. When removed from the lead the hook contact retracts into the plastic tip to minimize the possibility of shorting components. **Suggested Wire:** 26AWG (7-Strand, Tinned copper wire.

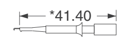

MICRO

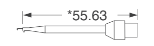

MINI

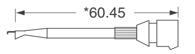

STANDARD

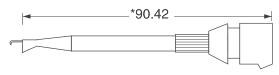

MAXI

Description	Color	Digi-Key Part No.	Price / Pkg.
Micro Probe-It*	Red Black Blue Green Yellow White	923830-RD-ND 923830-BK-ND 923830-BU-ND 923830-GN-ND 923830-YL-ND 923830-WT-ND	9.04 9.04 9.04 9.04 9.04 9.04
Mini Probe-It*	Red Black Green Yellow White	923835-RD-ND 923835-BK-ND 923835-GN-ND 923835-YL-ND 923835-WT-ND	8.70 8.70 8.70 8.70 8.70
Standard Probe-It*	Red Black	923840-RD-ND 923840-BK-ND	14.62 14.62
Maxi Probe-It*	Red Black	923845-RD-ND 923845-BK-ND	20.28 14.62
Micro Probe-It Assort. †	1 of each	923848-ND	24.15
Mini Probe-It Assort. †	1 of each	923850-ND	25.97

* 2 per package † 6 per package

GC ELECTRONICS

Jumper Wire Test Leads

Handy test leads with insulated alligator clips attached to each end. Each package contains black, red, white, green and yellow jumpers.

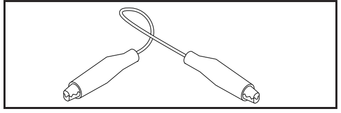

Description	Digi-Key Part No.	Price Each	GC Electronics Part No.
Standard Test Leads, 2 Each, 15" (38.10cm) long 27 AWG wires (10 Pkg.)	GC396-ND	6.44	12-1650
Heavy Duty Test Leads, 1 Each, 22" (55.88cm) long 21 AWG wires (5 Pkg.)	GC397-ND	6.91	12-1655

E-Z-HOOK Electronic Test Accessories

Hooks

(**Set/10:** 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White)

Dimensions in Inches

Fig. 1 – Double Hook, .025” Spacing

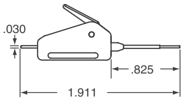

Fig. 2 – Pico-Hook

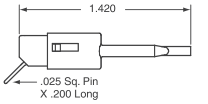

Fig. 3 – Micro-Hook

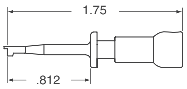

Fig. 4 – Double Micro-Hook

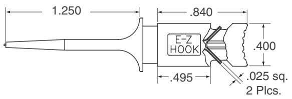

Fig. 5 – Mini-Hook

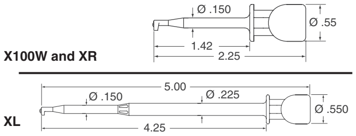

Fig. 6 – Macro-Hook

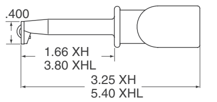

Fig. 7 – Macro-Hook, Insulation Piercing

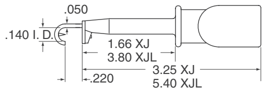

Fig. 8 – Insulation Piercing

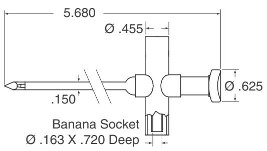

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
1	.006” Dia. Wire Double Hook, .025” Spacing	Black	461-1000-ND	17.43	15.75	13.97	X2015 BLK
		Red	461-1001-ND	17.43	15.75	13.97	X2015 RED
2	Pico-Hook with .025” Square Pin Gold Plated	Black	461-1002-ND	3.47	3.14	2.78	P25 BLK
		Red	461-1003-ND	3.47	3.14	2.78	P25 RED
3	Micro-Hook Test Connector	Black	461-1004-ND	1.93	1.74	1.55	XM BLK
		Red	461-1005-ND	1.93	1.74	1.55	XM RED
		Set/10	461-1006-ND	19.09	17.25	15.30	XM-S
	Micro-Hook with .025” Square Pin	Black	461-1007-ND	3.30	2.99	2.65	XM25 BLK
		Red	461-1008-ND	3.30	2.99	2.65	XM25 RED
4	E-Z-Micro Double Gripper	Black	461-1009-ND	2.66	2.40	2.13	XKM BLK
		Red	461-1010-ND	2.66	2.40	2.13	XKM RED
		Gray	461-1011-ND	2.66	2.40	2.13	XKM GRAY
		Set/10	461-1012-ND	26.39	23.85	21.15	XKM-S
5	Mini-Hook Test Connector	Black	461-1013-ND	1.74	1.58	1.40	X100W BLK
		Red	461-1014-ND	1.74	1.58	1.40	X100W RED
		Set/10	461-1015-ND	17.26	15.60	13.84	X100W-S
	Mini-Hook Test Connector, Extended	Black	461-1016-ND	3.65	3.30	2.93	XL1 BLK
		Red	461-1017-ND	3.65	3.30	2.93	XL1 RED
	Mini-Hook XR, Heavy Duty Hook	Black	461-1018-ND	2.12	1.92	1.71	XR BLK
		Red	461-1019-ND	2.12	1.92	1.71	XR RED
6	Macro-Hook Test Connector	Black	461-1020-ND	5.61	5.07	4.50	XH BLK
		Red	461-1021-ND	5.61	5.07	4.50	XH RED
	Macro-Hook Connector, Extended	Black	461-1022-ND	5.99	5.42	4.81	XHL BLK
		Red	461-1023-ND	5.99	5.42	4.81	XHL RED
7	Macro-Hook Piercing Connector	Black	461-1024-ND	6.81	6.15	5.46	XJ BLK
		Red	461-1025-ND	6.81	6.15	5.46	XJ RED
	Macro-Hook Piercing Connector, Extended	Black	461-1026-ND	7.45	6.74	5.98	XJL BLK
		Red	461-1027-ND	7.45	6.74	5.98	XJL RED
8	Insulation Piercing Test Connector	Black	461-1028-ND	11.70	10.58	9.38	XEL BLK
		Red	461-1029-ND	11.70	10.58	9.38	XEL RED

Panel Mounts

Set/10: 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White

Dimensions in Inches

Fig. 1 – Banana Jack

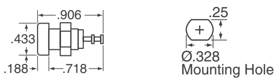

Fig. 2 – Double Banana Jack

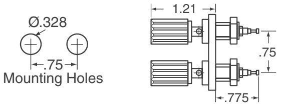

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
1	Standard Banana Jack	Red/Black	461-1215-ND	3.25	2.94	2.61	9284 R/B
	Standard Banana Jack	Set/10	461-1216-ND	16.27	14.70	13.04	9284-S
2	Double Standard Banana Jack with Binding Post	Red/Black	461-1217-ND	6.89	6.23	5.52	9406

Adapters

Dimensions in Inches

Fig. 1 – Jack to Alligator

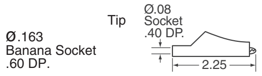

Fig. 2 – Banana Jack to .080 Tip Pin

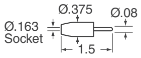

Fig. 3 – BNC to Double Banana Plug

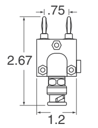

Fig. 4 – Double Banana Jack to Plug

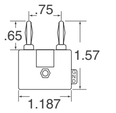

Fig. 5 – Hook to Banana Jack

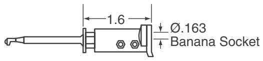

Fig. 6 – Banana Jack to Flexible Pin or Socket

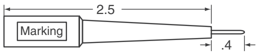

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
1	Standard Tip Jack to Standard Alligator Clip	Red/Black	461-1207-ND	4.15	3.75	3.33	8014 R/B
	Standard Banana Jack to Standard Alligator Clip	Red/Black	461-1208-ND◆	1.56	1.41	1.26	8016 R/B
2	Standard Banana Jack to Tip Pin	Red/Black	461-1206-ND◆	3.95	3.57	3.17	8018 R/B
3	BNC Female to Standard Double Banana Plug	Black	461-1278-ND	7.24	6.54	5.80	9225
	BNC Male to Standard Double Banana Plug	Black	461-1279-ND	8.02	7.25	6.43	9248
4	Stacking Double Banana Plug	Black	461-1237-ND◆	4.37	3.95	3.50	DB750BLK
5	Mini-Hook w/ Standard Banana Jack Plunger	Red/Black	461-1218-ND◆	8.63	7.80	6.92	8036 R/B
	Mini-Hook XR w/ Standard Banana Jack Plunger	Red/Black	461-1219-ND◆	9.33	8.43	7.48	8037 R/B
	Mini-Hook XL w/ Standard Banana Jack Plunger	Red/Black	461-1220-ND◆	13.15	11.88	10.54	8038 R/B

E-Z-Flex™ Test

Banana socket end is brass tin plated. All other contact ends are gold plated.

Fig.	AWG	Contact Dia. Inches	Type Contact	Color	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
6	22	.030	Socket	Red	461-1221-ND◆	5.43	4.91	4.35	9334 RED
			Pin	Red	461-1229-ND◆	4.08	3.69	3.28	9338 RED
			Socket	Black	461-1222-ND◆	5.43	4.91	4.35	9334 BLK
			Pin	Black	461-1230-ND◆	4.08	3.69	3.28	9338 BLK
	20	.040	Socket	Red	461-1223-ND◆	4.08	3.69	3.28	9335 RED
			Pin	Red	461-1231-ND◆	4.52	4.08	3.62	9339 RED
			Socket	Black	461-1224-ND◆	4.08	3.69	3.28	9335 BLK
			Pin	Black	461-1232-ND◆	4.52	4.08	3.62	9339 BLK

◆ ***RoHS Compliant***

Connectors

(**Set/10:** 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White)

Dimensions in Inches

Fig. 1 – Shrouded Banana Plug

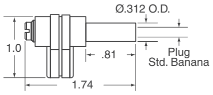

Fig. 2 – Banana Plug

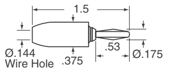

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
1	Shrouded Right Angle Std. Banana Plug	Red/Black	461-1204-ND	8.98	8.12	7.20	9302 R/B
2	Standard Banana Plug	Red/Black	461-1214-ND	2.86	2.58	2.29	9202 R/B
		Set/10	461-1213-ND	14.11	12.75	11.31	9202-S

Probes

Features: • Lead Wire: 18AWG, (65 x 36) T.C.Flexible PVC insulation.

Dimensions in Inches

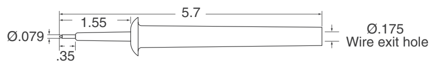

Description	Length (Inches)	Color	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
Pin Tip Probe	—	Red/Black	461-1209-ND	6.21	5.61	4.98	30 R/B
Needle Tip Probe	—	Red/Black	461-1211-ND	6.21	5.61	4.98	34 R/B
Needle Tip with Standard Banana Jack	—	Red/Black	461-1212-ND	7.60	6.87	6.10	35 R/B
Test Probe to Standard Banana Plug	36	Red/Black	461-1183-ND	12.75	11.52	10.22	658-36 R/B
Test Probe to Shrouded Std. Banana Plug	36	Red/Black	461-1184-ND	15.17	13.71	12.16	666-36 R/B
Test Probe to Shrouded Std. Banana Plug	36	Red/Black	461-1186-ND	15.94	14.40	12.77	63334-36 R/B

(Continued)

E-Z-HOOK Electronic Test Accessories *(Cont.)*

Test Leads

Tinned copper with flexible PVC insulation.

(**Set/10:** 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White) (**Set/2:** 1 each of: Black and Red)
(**Set/5R:** 1 each of: Red, Blue, White, Purple, Gray) (**Set/5B:** 1 each of : Black, Brown, Green, Yellow, Orange)

Dimensions in Inches

Fig. 1 – Pico-Hook

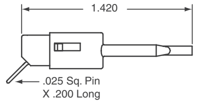

Fig. 2 – Micro-Hook

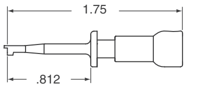

Fig. 3 – Mini-Hook, X100W and XR

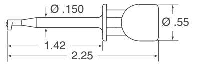

Fig. 4 – Mini-Alligator

Fig. 5 – Standard Alligator

Fig.	Description	AWG	Color	Length (Inches)	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
Hook Test Leads — RoHS Compliant									
1	E-Z Pico-Hook to Pico-Hook	28 (19 x 40)	Black	12	461-1042-ND	5.40	4.88	4.33	P704-12 BLK
			Red	12	461-1043-ND	5.40	4.88	4.33	P704-12 RED
	Pico-Hook to .025” Square Socket	28 (19 x 40)	Set/2	12	461-1165-ND	10.96	9.90	8.78	P703-12 R/B
			Set/10	12	461-1166-ND	51.96	46.95	41.63	P703-12-S
	Pico-Hook to Lead Only	28 (19 x 40)	Set/2	12	461-1167-ND	6.81	6.15	5.46	P713-12 R/B
			Set/10	12	461-1168-ND	32.37	29.25	25.94	P713-12-S
2	Micro-Hook to Micro-Hook	22 (65 x 40)	Black	12	461-1036-ND	4.57	4.13	3.66	204XM-12 BLK
			Red	12	461-1037-ND	4.57	4.13	3.66	204XM-12 RED
			Set/10	12	461-1038-ND	44.99	40.65	36.05	204XM-12-S
			Black	24	461-1039-ND	4.57	4.13	3.66	204XM-24 BLK
			Red	24	461-1040-ND	4.57	4.13	3.66	204XM-24 RED
			Set/10	24	461-1041-ND	44.99	40.65	36.05	204XM-24-S
	Micro-Hook to Std. Banana Plug	22 (65 x 40)	Black	18	461-1044-ND	4.13	3.74	3.32	BXM-18 BLK
			Red	18	461-1045-ND	4.13	3.74	3.32	BXM-18 RED
			Set/2	18	461-1046-ND	8.27	7.47	6.63	BXM-18 R/B
			Set/10	18	461-1149-ND	41.17	37.20	32.99	BXM-18-S
			Black	36	461-1047-ND	4.13	3.74	3.32	BXM-BLK
			Red	36	461-1048-ND	4.13	3.74	3.32	BXM-RED
			Set/2	36	461-1049-ND	8.27	7.47	6.63	BXM-R/B
			Set/10	36	461-1150-ND	41.17	37.20	32.99	BXM-S
3	Mini-Hook to Mini-Hook	22 (65 x 40)	Black	12	461-1030-ND	4.32	3.90	3.46	204-12W BLK
			Red	12	461-1031-ND	4.32	3.90	3.46	204-12W RED
			Set/10	12	461-1032-ND	42.50	38.40	34.05	204-12W-S
			Black	24	461-1033-ND	4.32	3.90	3.46	204-24W BLK
			Red	24	461-1034-ND	4.32	3.90	3.46	204-24W RED
			Set/10	24	461-1035-ND	42.50	38.40	34.05	204-24W-S
			Black	36	461-1147-ND	4.32	3.90	3.46	204-36W BLK
			Red	36	461-1146-ND	4.32	3.90	3.46	204-36W RED
			Set/10	36	461-1148-ND	42.83	38.70	34.32	204-36W-S
	Mini-Hook to Std. Banana Plug	22 (65 x 40)	Black	18	461-1050-ND	4.15	3.75	3.33	BX1W-18 BLK
			Red	18	461-1051-ND	4.15	3.75	3.33	BX1W-18 RED
			Set/2	18	461-1052-ND	8.30	7.50	6.65	BX1W-18 R/B
			Set/10	18	461-1151-ND	44.82	40.50	35.91	BX1W-18-S
			Black	36	461-1053-ND	4.15	3.75	3.33	BX1W-BLK
			Red	36	461-1054-ND	4.15	3.75	3.33	BX1W-RED
			Set/2	36	461-1055-ND	8.30	7.50	6.65	BX1W-R/B
			Set/10	36	461-1152-ND	44.82	40.50	35.91	BX1W-S
	Mini-Hook to Stacking Banana Plug	18 (65 x 36)	Black	18	461-1056-ND	5.59	5.06	4.49	601W-18 BLK
			Red	18	461-1057-ND	5.59	5.06	4.49	601W-18 RED
			Set/2	18	461-1058-ND	11.19	10.11	8.97	601W-18 R/B
			Set/10	18	461-1153-ND	55.61	50.25	44.56	601W-18-S
			Black	36	461-1059-ND	5.59	5.06	4.49	601W-36 BLK
			Red	36	461-1060-ND	5.59	5.06	4.49	601W-36 RED
			Set/2	36	461-1061-ND	11.19	10.11	8.97	601W-36 R/B
			Set/10	36	461-1154-ND	55.61	50.25	44.56	601W-S
	XR Heavy Duty Mini-Hook to Stacking Banana Plug	18 (65 x 36)	Black	18	461-1156-ND	5.74	5.19	4.61	601XR-18 BLK
			Red	18	461-1155-ND	5.74	5.19	4.61	601XR-18 RED
			Set/5B	18	461-1157-ND	28.72	25.95	23.01	601XR-18 5B
			Set/5R	18	461-1158-ND	28.72	25.95	23.01	601XR-18 5R
			Set/10	18	461-1159-ND	56.77	51.30	45.49	601XR-18-S
Alligator Clip Test Leads									
4	Mini-Alligator Clip to Mini-Alligator Clip Jumper	22 (65 x 40)	Set/2	12	461-1169-ND	6.87	6.21	5.51	284M-12 R/B
			Set/10	12	461-1170-ND	34.36	31.05	27.54	284M-12-S
			Set/2	36	461-1171-ND	6.87	6.21	5.51	284M-36 R/B
			Set/10	36	461-1172-ND	34.36	31.05	27.54	284M-36-S
5	Std. Alligator Clip to Stacking Banana Clip	18 (65 x 36)	Set/2	36	461-1173-ND	10.19	9.21	8.17	681 R/B
			Set/10	36	461-1174-ND	49.80	45.00	39.90	681-S
	Std. Alligator Clip to Std. Alligator Jumper	18 (65 x 36)	Set/2	12	461-1175-ND	8.60	7.77	6.89	684-12 R/B
			Set/10	12	461-1176-ND	41.83	37.80	33.52	684-12-S
			Set/2	24	461-1177-ND	8.60	7.77	6.89	684-24 R/B
			Set/10	24	461-1178-ND	41.83	37.80	33.52	684-24-S
			Set/2	36	461-1179-ND	8.60	7.77	6.89	684-36 R/B
			Set/10	36	461-1180-ND	41.83	37.80	33.52	684-36-S
			Set/2	60	461-1181-ND	10.33	9.33	8.28	684-60 R/B
			Set/10	60	461-1182-ND	51.46	46.50	41.23	684-60-S

Patch Cords

Tinned copper with flexible PVC insulation.

(**Set/10:** 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White)

Description	AWG	Color	Length (Inches)	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
Standard Banana Plug to Standard Banana Plug	22 (65 x 40)	Black	18	461-1068-ND◆	4.57	4.13	3.66	9105-18 BLK
		Red	18	461-1069-ND◆	4.57	4.13	3.66	9105-18 RED
		Black	36	461-1070-ND◆	4.57	4.13	3.66	9105-36 BLK
		Red	36	461-1071-ND◆	4.57	4.13	3.66	9105-36 RED
Stacking Banana Plug with Heavy Wire to Stacking Banana Plug	18 (65 x 36)	Black	8	461-1123-ND◆	6.44	5.82	5.17	9111-8 BLK
		Red	8	461-1122-ND◆	6.44	5.82	5.17	9111-8 RED
		Set/10	8	461-1124-ND◆	63.08	57.00	50.54	9111-8-S
		Black	12	461-1126-ND◆	6.44	5.82	5.17	9111-12 BLK
		Red	12	461-1125-ND◆	6.44	5.82	5.17	9111-12 RED
		Set/10	12	461-1127-ND◆	63.08	57.00	50.54	9111-12-S
		Black	18	461-1072-ND◆	6.52	5.90	5.23	9111-18 BLK
		Red	18	461-1073-ND◆	6.52	5.90	5.23	9111-18 RED
		Black	24	461-1129-ND◆	6.52	5.90	5.23	9111-24 BLK
		Red	24	461-1128-ND◆	6.52	5.90	5.23	9111-24 RED
		Set/10	24	461-1130-ND◆	64.57	58.35	51.74	9111-24-S
		Black	36	461-1074-ND◆	6.61	5.97	5.30	9111-36 BLK
		Red	36	461-1075-ND◆	6.61	5.97	5.30	9111-36 RED
		Set/10	36	461-1131-ND◆	64.57	58.35	51.74	9111-36-S
		Black	48	461-1133-ND◆	6.84	6.18	5.48	9111-48 BLK
		Red	48	461-1132-ND◆	6.84	6.18	5.48	9111-48 RED
		Set/10	48	461-1134-ND◆	68.06	61.50	54.53	9111-48-S
		Black	60	461-1136-ND◆	6.84	6.18	5.48	9111-60 BLK
		Red	60	461-1135-ND◆	6.84	6.18	5.48	9111-60 RED
		Set/10	60	461-1137-ND◆	68.06	61.50	54.53	9111-60-S
		Black	72	461-1139-ND◆	7.04	6.36	5.64	9111-72 BLK
		Red	72	461-1138-ND◆	7.04	6.36	5.64	9111-72 RED
		Set/10	72	461-1140-ND◆	69.72	63.00	55.86	9111-72-S
.030” Diameter Socket to .030” Diameter Socket	22 (65 x 40)	Black	12	461-1076-ND◆	4.20	3.80	3.37	9860-12 BLK
		Red	12	461-1077-ND◆	4.20	3.80	3.37	9860-12 RED
		Black	24	461-1078-ND◆	4.20	3.80	3.37	9860-24 BLK
		Red	24	461-1079-ND◆	4.20	3.80	3.37	9860-24 RED
.025” to .025” Square Socket Gold Plated	22 (65 x 40)	Black	12	461-1094-ND◆	3.54	3.20	2.84	9110-12 BLK
		Red	12	461-1095-ND◆	3.54	3.20	2.84	9110-12 RED
		Set/10	12	461-1141-ND◆	34.53	31.20	27.67	9110-12-S
		Black	24	461-1096-ND◆	3.54	3.20	2.84	9110-24 BLK
		Red	24	461-1097-ND◆	3.54	3.20	2.84	9110-24 RED
		Set/10	24	461-1142-ND◆	34.53	31.20	27.67	9110-24-S

◆ ***RoHS Compliant***

Flexible Test Lead Wires

Features:
- PVC Insulated
- 100 Feet Length
- Temperature: 105°C (200 Series: 60°C UL)
- Tinned copper

Description	AWG	Insulation Thickness (Inches)	WV DC	Nom. O.D. (Inches)	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
200 Series	22 (65 x 40)	.018	1000 (300UL)	.070	461-1114-ND	32.90	29.73	26.37	9504-100FT BLK
					461-1115-ND	32.90	29.73	26.37	9504-100FT RED
500 Series	20 (105 x 40)	.020	1000	.080	461-1116-ND	35.52	32.10	28.47	9505-100FT BLK
					461-1117-ND	35.52	32.10	28.47	9505-100FT RED
600 Series	18 (65 x 36)	.045	5000	.144	461-1118-ND	42.75	38.63	34.25	9506-100FT BLK
					461-1119-ND	42.75	38.63	34.25	9506-100FT RED
700 Series	28 (19 x 40)	.015	600	.047	461-1112-ND	22.91	20.70	18.36	9501-100FT BLK
					461-1113-ND	22.91	20.70	18.36	9501-100FT RED

Test Cable Wall Brackets

Features:

- Material: Steel
- Finish: Blue Powder Coat

13 Slot Bracket

Dimensions in Inches

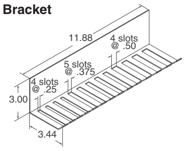

Description	Digi-Key Part No.	Price Each 1	10	50	E-Z-Hook Part No.
6 Slot Bracket	461-1120-ND	8.42	7.61	6.75	WB6
13 Slot Bracket	461-1121-ND	11.62	10.50	9.31	WB14

(Continued)

Electronic Test Accessories *(Cont.)*

Coaxial Test Cables

Male Connectors: Brass body and fittings, PTFE insulators, silver or gold plated brass contact, bright tarnish resistant metal alloy finish.
Female Connectors: Brass body and fittings, PTFE insulators, silver or gold plated beryllium copper contact, bright tarnish resistant metal alloy finish.

Dimensions in Inches

Fig. 1

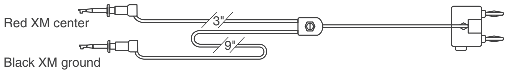

Fig. 2

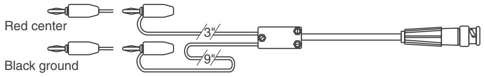

Fig.	Description	Cable	Center	Ground	Length (Inches)	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
1	Stacking Double Banana to XM Hook	RG58C/U	XM	XM	36	461-1193-ND	16.60	15.00	13.30	1050XM-36
2	BNC Male to Stacking Banana Plug	RG58C/U	Stacking Banana	Stacking Banana	18	461-1203-ND	17.26	15.60	13.84	1224-18
	BNC Male to X100W Hook	RG58C/U	X100W	X100W	30	461-1189-ND◆	16.60	15.00	13.30	1020-30
	BNC Male to X100W Hook	RG58C/U	X100W	X100W	60	461-1190-ND◆	17.85	16.13	14.30	1020-60
	BNC Male to XR Hook	RG58C/U	XR	XR	18	461-1191-ND◆	16.43	14.85	13.17	1020XR-18
	BNC Male to XR Hook	RG58C/U	XR	XR	36	461-1192-ND◆	16.85	15.23	13.50	1020XR-36
3	BNC Breakout Female to X100W Hook	20AWG (105 x 40)	X100W	X100W	9/3	461-1187-ND	12.07	10.91	9.67	1001
	BNC Breakout Female to Stacking Banana Plug	18AWG (65 x 36)	Stacking Banana	Stacking Banana	4/4	461-1188-ND◆	14.09	12.74	11.30	1002
4	BNC Male to BNC Male with Strain Relief Boots	RG58C/U	— — —	— — —	18 36 60	461-1194-ND◆ 461-1195-ND◆ 461-1196-ND◆	15.27 15.74 16.60	13.80 14.22 15.00	12.24 12.61 13.30	1026-18 1026-36 1026-60
	BNC Female to BNC Male with Strain Relief Boots	RG58C/U	— —	— —	36 60	461-1198-ND◆ 461-1199-ND◆	20.40 21.68	18.44 19.59	16.35 17.37	1025-36 1025-60

◆ *RoHS Compliant*

Fig. 3

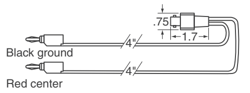

Fig. 4

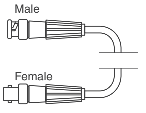

1025 Series Shown

Microscopes

AVEN

Stereo Zoom Microscope with Ring Light

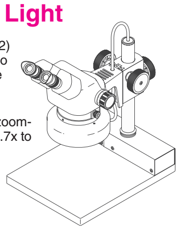

Model DSZ-44PF Series 44 (26800B-302) and SPZ-50PFM (26800B-371) Stereo Zoom Microscope mounted on a pole stand with a built in fluorescent ring light

Specifications:
- Magnification: 26800B-302: 10x to 44x zoom-90mm working distance; 26800B-371: 6.7x to 50x zoom-108mm working distance
- Coarse focusing knobs with tension control ring
- Incident Light: Fluorescent 9W lamp
- Field of View: 26800B-302: 23x; 26800B-371: 34.3mm
- Limited Lifetime Warranty

243-1049-ND (26800B-302)....................................**$966.00**
NEW! **243-1062-ND** (26800B-371).......................... **$1215.50**

Pocket Microscope with Built-in Light

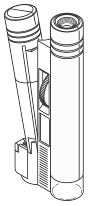

Perfect "Carry With" Microscope with a built in light source. (requires two AA batteries-not included).

Specifications:
- Magnification: 40x
- Field of View: 4.4mm
- Scale Calibration: 0.05mm
- Maximum Measurement: 4mm

243-1047-ND (26800C-534)..................................... **$49.95**

Pocket Microscope

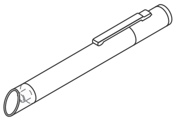

"Pen Size" powerful direct measuring pocket scope for quick close examination. Comes with a measuring metric glass reticle. Scope has an aluminum case with a satin finish and pocket clip.

Specifications:
- Magnification: 25x • Field of View: 3.24mm • Scale Calibration: 0.05mm
- Measurement Range: 0-3mm

243-1046-ND (26800C-533)...................................... **$49.95**

Magnifying Lamps

ProVue Illuminated Magnifier

Crystal-clear lens for 360° distortion-free viewing mounted in metal housing. A 22W fluorescent bulb provides shadow-free light around the object being magnified. Housing is mounted on a 45" spring-balanced arm that stays set in any position and features a tension control knob at the arm. Complete with mounting clamp and 5-foot, 2-wire cord. One year warranty (except bulb).

Description	Color	Digi-Key Part No.	Price Each	Aven Part No.
5" Diameter, 3 Diopter	Ivory	243-1025-ND	80.50	26501-SIV
5" Diameter, 3 Diopter	Copper	243-1044-ND	80.50	26501-SCP

ProVue Deluxe

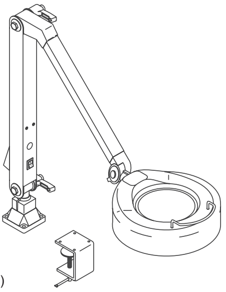

A 3 Diopter 5" diameter crystal-clear lens for 360° distortion-free viewing mounted.

Features:
- Heavy duty industrial grade arm with internal springs
- Brushed silver metal housing
- Arm Reach 35"
- C-mount clamp
- One year warranty (except bulb)

Digi-Key Part No.	Price Each	Aven Part No.
243-1043-ND	125.00	26501-DSG

Mighty Mag Illuminated Magnifier

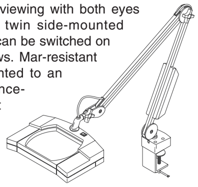

Crystal-clear lens for distortion-free viewing with both eyes to reduce fatigue and strain. Has twin side-mounted fluorescent tubes, 9 watts each that can be switched on and off eliminating glare and shadows. Mar-resistant engineered plastic housing is mounted to an internal spring-balanced maintenance-free arm with a 35" reach that will set in any position. Comes complete with mounting clamp and 5-foot, 2-wire cord. Color: 26505-SIV: Ivory; 26505-ESD: Black
Five year warranty (except bulbs).

Description	Digi-Key Part No.	Price Each	Aven Part No.
Extra Large 6" x 7" Rectangular, 3 Diopter	243-1027-ND	120.00	26505-SIV
Extra Large 6" x 7" Rectangular, 3 Diopter	243-1063-ND ***NEW!***	130.00	26505-ESD

Maxi Mag Illuminated Magnifier

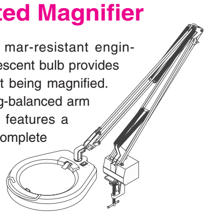

Crystal-clear lens is mounted in mar-resistant engineered plastic housing. A 32W fluorescent bulb provides shadow-free light around the object being magnified. Housing is mounted on a 45" spring-balanced arm that stays set in any position and features a tension control knob at the arm. Complete with mounting clamp and 5-foot, 2-wire cord. Color: Ivory.
One year warranty (except bulb).

Description	Digi-Key Part No.	Price Each	Aven Part No.
Large 7" Diameter, 3 Diopter	243-1026-ND	98.75	26503-SIV

Replacement Bulbs

Description	Digi-Key Part No.	Price Each	Aven Part No.
22 Watt Replacement Bulb	243-1039-ND	9.00	26501B
32 Watt Replacement Bulb	243-1040-ND	14.00	26503B
9 Watt Replacement Bulb	243-1041-ND	9.00	26505B

Magnifiers

Double Clamp with Stand and Magnifier:
- Allows for close observation of work during soldering operations • Adjustable 2.5" diameter magnifying glass

Magnifier with Tweezer Tip, 3x:
- Excellent for working on small parts that require magnification • Magnifying glass mounted onto a stainless steel, anti-acid, anti- magnetic tweezers

Inspection Eye Loupe: • Optical quality glass lens • Rests comfortably in the eye socket • Lightweight, yet sturdy • Plastic mount, 1" lens

10x Stand Magnifier:
- Clear acrylic base permits ambient light to illuminate subject for clear bright viewing • Fixed focus 10x magnifier, features a 1" diameter lens

Fig. 1

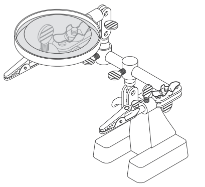

Fig. 2

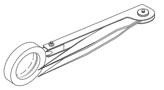

Fig. 3

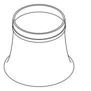

Fig.	Description	Zoom/ Magnification	Color	Diameter Nom. (Inches)	Digi-Key Part No.	Price Each	Aven Part No.
1	Double Clamp with Stand and Magnifier	2x	—	2.5	243-1018-ND	8.25	26000
2	Magnifier with Curved Tweezer Tip	3x	Natural	1.25	243-1019-ND	9.50	26030
	Magnifier with Straight Tweezer	3x	Natural	1.25	243-1020-ND	9.50	26031
3	Inspection Eye Loupe, Working Distance: 1"	10x	Black	1	243-1021-ND	1.80	26034
	10x Stand Magnifier	10x	Clear	1	243-1024-ND	4.75	26051

LUXO

Lamps and Accessories

Wave + Plus Series Magnifiers

3.5-DIOPTER LENS

Independently switched improved light output uses two 13W compact fluorescent lamps.

Magnification: 3/4x

Focal length: 13” (33.02cm)

Viewing area: 6¾” (17.15cm) ABS molded housing. UL listed (13W PL Compact Bulb)

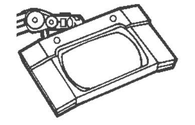

Arm Inch (cm)	Mount	Digi-Key Part No.	Price Each	Luxo Part No.
45 (114.30)	Clamp Bracket	L845LG-ND	350.00	17845LG
30 (76.20)	Weighted Base	L847LG-ND	410.00	17847LG
45 (114.30)	Clamp Bracket	L841LG-ND	514.00	17841LG
30 (76.20)	Clamp Bracket	L842LG-ND	514.00	17842LG
30 (76.20)	Clamp Bracket	L902BK-ND	530.00	17902BK

KFM Series Magnifiers

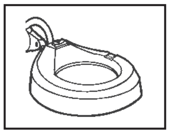

The 5” (12.7cm) diameter lenses are mounted in a die-cast aluminum housing. An internal spring arm offers perfect balance and full adjustability. Comes with a 22W T-9 energy-efficient fluorescent bulb.

Lens Type	“K” Arm Inch (cm)	Color	Mount	Digi-Key Part No.	Price Each	Luxo Part No.
5D	45 (114.30)	Black Light Gray	Clamp Clamp	L230B-ND L230LG-ND	255.00 255.00	17115BK 17115LG
3D	30 (76.20)	Black Light Gray	Weighted Weighted	L235B-ND L235LG-ND	305.00 305.00	17253BK 17253LG

Ledu Task Master Series

IM12D Series

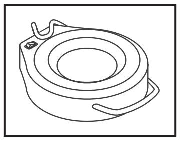

Clamp-on 22W fluorescent lamp, 3-conductor cord set.

Arm length Inch (mm): 42 (106.68)

Color: White

Lens Type	Mount	Luxo Series	Digi-Key Part No.	Price Each	Luxo Part No.
3D 5D	Clamp	IM12D	L712WT-ND L7125WT-ND	137.00 147.00	L712WT L7125WT

Additional Lenses

Diameter Inches	Description	Digi-Key Part No.	Price Each	Luxo Part No.
4"	4 Diopter	L50201-ND	45.00	50201
3 1/8"	8 Diopter	L50202-ND	49.00	50202

Replacement Bulbs

Description	Digi-Key Part No.	Price Each	Luxo Part No.
22 Watt T-9 Bulb for KFM/LC/FM Series	L540-ND	13.50	31640
15 Watt T-8 Bulb for FL Series	L541-ND	11.00	31641
13 Watt Fluorescent Bulb	L5205-ND	14.00	36205
1.5" 10 Diopter Lens	L50206-ND	95.00	50206

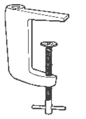

Clamp Bracket

For edge mounting on horizontal surfaces.

L501BK-ND Black
L501LG-ND Light Gray
$12.00

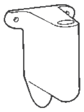

Wall Bracket

For permanent mounting on vertical surfaces.

L503BK-ND Black
L503LG-ND Light Gray
$12.00

Panasonic®

Power Screwdriver

Accurate, High Speed, Powerful!

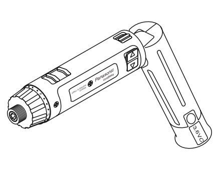

FEATURES: • “Auto Shut-Off Clutch” extends battery and clutch life by immediately stopping rotation once torque setting is reached • 22-stage clutch offers you more precise torque setting • Clutch torque accuracy is ±5% • Maximum 600 rpm for high speed screw driving • Maximum 39 in-lbs torque (in low gear) even with compact size • 1/4” hex quick connect chuck • 15-minute charging system • Easily converts from straight to pistol form

TECHNICAL DATA: • **Motor Voltage:** 3.6VDC • **Rotating Speed:** Low: 200 rpm; High: 600 rpm • **Max. Torque:** Low: 39 in-lbs; High: 13 in-lbs • **Clutch Torque/Auto Shut-Off Clutch:** 21 stage/2.6 to 26 in-lbs • **Size in Straight Position:** 11-21/32” x 1-17/32” • **Weight (includes battery):** 1.15 lbs. • **Battery Capacity:** 1.2Ah • **Charging Time:** 15 minutes • **Working Capacity:** Screw (Ø5/32 x 3/8): 600 screws

INCLUDES: Battery Pack, Battery Charger, #1 Phillips Bit, #2 Phillips Bit

P10861-ND	Screwdriver (EY6225CQ)	**$159.00**
P10862-ND	Extra Battery Pack (EY9025B)	**$39.00**

Sensata Technologies

GFCI Linegard® Safety Product

RoHS COMPLIANT

Ground fault circuit interruption is designed to prevent a person, or equipment, from becoming a path to ground. AIRPAX® GFCI products offer four different current ratings: • **15A** units intended for all commercial applications, indoors and out • **20A** units for industrial applications such as cement cutting, submersible pumps, outdoor signage and vending equipment • **30A** units are heavy industrial types for generator applications, outdoor equipment and production and agricultural equipment • **40A** units heavy industrial units with configurable trip thresholds and are hardwired in, top mounted strobe flash for fault indication • Cords are yellow (SJTW Type Cable)

Fig. 1 — 15A

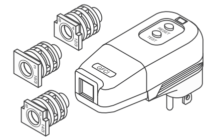

Plug Only Kit

Fig. 2 — 15A

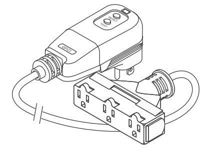

(Tri-Tap Shown)

Fig. 3 — 15A Rough Service

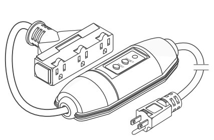

(Tri-Tap Shown)

Fig. 4 — 20A Industrial

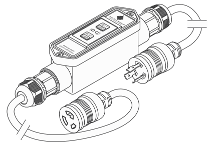

(Single Tap Shown)

Fig. 5 — 20A Hardwire

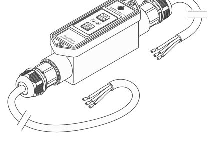

(Hardwire Shown)

Fig. 6 — 30A Heavy Duty

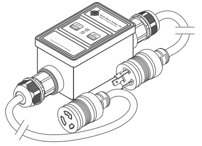

(Locking Shown)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Sensata Part No.
	15 Amp Type					
1	Plug, No Cord, Manual Reset	723-1000-ND	49.56	46.91	42.48	PGFP-M11
2	2’ Cord Assembly, Single-Tap, Manual Reset	723-1001-ND	60.06	56.85	51.48	PGFP-M110KYST2
	2’ Cord Assembly, Tri-Tap, Manual Reset	723-1003-ND	66.92	63.34	57.36	PGFP-M110KYTT2
	25’ Cord Assembly, Single-Tap, Manual Reset	723-1002-ND	87.89	83.19	75.34	PGFP-M110KYST25
	25’ Cord Assembly, Tri-Tap, Manual Reset	723-1004-ND	87.89	83.19	75.34	PGFP-M110KYTT25
1	Plug, No Cord, Automatic Reset	723-1005-ND	49.56	46.91	42.48	PGFP-A11
2	2’ Cord Assembly, Single-Tap, Automatic Reset	723-1006-ND	60.06	56.85	51.48	PGFP-A110KYST2
	2’ Cord Assembly, Tri-Tap, Automatic Reset	723-1008-ND	66.92	63.34	57.36	PGFP-A110KYTT2
	25’ Cord Assembly, Single-Tap, Automatic Reset	723-1007-ND	87.89	83.19	75.34	PGFP-A110KYST25
	25’ Cord Assembly, Tri-Tap, Automatic Reset	723-1009-ND	87.89	83.19	75.34	PGFP-A110KYTT25
1	Plug, No Cord, Manual Reset	723-1010-ND	52.08	49.29	44.64	PGFI-M04
3	2’ Cord Assembly, Single-Tap, Manual Reset	723-1011-ND	62.58	59.23	53.64	PGFI-M040KYST2
	2’ Cord Assembly, Tri-Tap, Manual Reset	723-1012-ND	66.92	63.34	57.36	PGFI-M040KYTT2
	25’ Cord Assembly, Single-Tap, Manual Reset	723-1013-ND	90.44	85.60	77.52	PGFI-M040KYST25
	25’ Cord Assembly, Tri-Tap, Manual Reset	723-1014-ND	97.86	92.62	83.88	PGFI-M040KYTT25
1	Plug, No Cord, Automatic Reset	723-1015-ND	52.08	49.29	44.64	PGFI-A04
3	2’ Cord Assembly, Single-Tap, Automatic Reset	723-1016-ND	62.58	59.23	53.64	PGFI-A040KYST2
	2’ Cord Assembly, Tri-Tap, Automatic Reset	723-1017-ND	66.92	63.34	57.36	PGFI-A040KYTT2
	25’ Cord Assembly, Single-Tap, Automatic Reset	723-1018-ND	90.44	85.60	77.52	PGFI-A040KYST25
	25’ Cord Assembly, Tri-Tap, Automatic Reset	723-1019-ND	97.86	92.62	83.88	PGFI-A040KYTT25
	20 Amp Type					
4	2’ Cord Assembly, Single Tap, 120VAC, Manual Reset	723-1020-ND	148.12	140.19	126.96	PGFI-12011
	2’ Cord Assembly, Single Tap, 240VAC Manual Reset	723-1021-ND	155.96	147.61	133.68	PGFI-22011
	2’ Cord Assembly, Single Tap, 120VAC, Auto Reset	723-1024-ND	160.16	151.58	137.28	PGFI-12111
4	2’ Cord Assembly, Single Tap, 240VAC, Auto Reset	723-1025-ND	168.00	159.00	144.00	PGFI-22111
5	2’ Cord Assembly, Hardwire, 120VAC Manual Reset	723-1022-ND	131.88	124.82	113.04	PGFI-1201N
	2’ Cord Assembly, Hardwire, 120VAC, Auto Reset	723-1026-ND	143.92	136.21	123.36	PGFI-1211N
	2’ Cord Assembly, Hardwire, 240VAC, Manual Reset	723-1023-ND	139.72	132.24	119.76	PGFI-2201N
	2’ Cord Assembly, Hardwire, 240VAC, Auto Reset	723-1027-ND	151.76	143.63	130.08	PGFI-2211N
—	120V Wall outlet, Black, 15/20A with wall plate	723-1044-ND	26.32	24.91	22.56	PGFR-122
	30 Amp Type					
6	2’ Cord Assembly, Hardwire, 120VAC, Manual Reset	723-1028-ND	256.20	242.48	219.60	PGFI-1301N
	2’ Cord Assembly, Locking, 120VAC, Manual Reset	723-1029-ND	260.40	246.45	223.20	PGFI-13011
	2’ Cord Assembly, Hardwire, 120VAC, Auto Reset	723-1030-ND	277.76	262.88	238.08	PGFI-1311N
	2’ Cord Assembly, Locking, 120VAC, Auto Reset	723-1031-ND	281.96	266.86	241.68	PGFI-13111
	2’ Cord Assembly, Locking, 240VAC, Manual Reset	723-1032-ND	303.52	287.26	260.16	PGFI-23011
6	2’ Cord Assembly, Hardwire, 240VAC, Manual Reset	723-1033-ND	299.32	283.29	256.56	PGFI-2301N
	2’ Cord Assembly, Locking, 240VAC, Auto Reset	723-1034-ND	325.08	307.67	278.64	PGFI-23111
	2’ Cord Assembly, Hardwire, 240VAC, Auto Reset	723-1035-ND	320.88	303.69	275.04	PGFI-2311N
	Rough in Type, 120VAC, Manual Reset	723-1036-ND	247.80	234.53	212.40	PGFS-13005
	Rough in Type, 120VAC, Auto Reset	723-1037-ND	261.52	247.51	224.16	PGFS-13105
	Rough in Type, 240VAC, Manual Reset	723-1038-ND	290.92	275.34	249.36	PGFS-23005
	Rough in Type, 240VAC, Auto Reset	723-1039-ND	304.50	288.19	261.00	PGFS-23105
	Rough in Type, 3-Phase, 240VAC, Auto Reset	723-1040-ND	483.00	457.13	414.00	PGFS-73105
	40 Amp Type					
—	Configurable Type, Industrial, 120V	723-1041-ND	1773.52	1678.51	1520.16	PGFI-1445N
	Configurable Type, Industrial, 3-Phase, 208V	723-1042-ND	493.50	467.07	423.00	PGFI-831AN

NEW! AVR Series UPS Systems

Tripp Lite AVR UPS Systems provide economical automatic voltage regulation and battery backup for PC's, A/V systems and more. Up to 12 AC outlets plus tel/DSL surge protection. USB communication port works with FREE PowerAlert Software (web download) for unattended system shutdown. • $100,000 Ultimate Lifetime Insurance • 2 year product warranty

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
8 Outlets, 550VA, 300W	TL371-ND	69.00	AVR550U
12 Outlets, 750VA, 450W	TL372-ND	92.00	AVR750U
12 Outlets, 900VA, 480W	TL373-ND	104.88	AVR900U

Internet Office® Ultra-Compact Standby UPS Systems

Internet Office Ultra-Compact UPS Systems provide complete power protection for your entire computer set-up, even power hungry peripherals. Built-in tel/DSL jacks prevent surges from damaging your modem/fax equipment. USB communication port works with FREE PowerAlert Software (web download) for unattended system shutdown. $100,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 350VA, 180W	TL302-ND	43.00	INTERNET350SER
8 Outlets, 350VA, 180W	TL303-ND	43.00	INTERNET350U
8 Outlets, 550VA, 300W	TL352-ND	59.00	INTERNET550U
8 Outlets, 750VA, 450W	TL305-ND	87.00	INTERNET750U

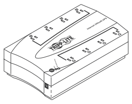

UPS Systems

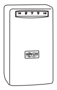

BC Standby Series — BC Personal® UPS Systems provide excellent basic battery backup for home and small office personal computers. BC Pro® units are ideal for network workstations and hubs and feature a communication port and PowerAlert Software for unattended system shutdown. BCPRO600 features built-in RJ11 jacks for modem/fax surge protection. Diagnostic LEDs alert you to potential power problems before damaging connected equipment. $25,000 Ultimate Lifetime Insurance protects both backup and equipment plugged into it. No warranty cards required for coverage! • UL/cUL approved • 2 year product warranty
Internet Office Standby provides complete power protection for your entire computer set-up, even power hungry peripherals. Built-in RJ11 jacks prevent surges from damaging your modem/fax equipment on up to 2 lines simultaneously. Communication port that works with PowerAlert Software for unattended system shutdown is available on most models. $25,000 Ultimate Lifetime Insurance protects both backup and equipment plugged into it. No warranty cards required for coverage! • UL/cUL Approved • 2 year product warranty
OmniSmart™ Line-Interactive features automatic voltage regulation that automatically "boosts" or "cuts" incoming voltage to keep computers working through low voltage (brownouts) and high voltage conditions without draining battery power. Communication port and PowerAlert Software provide unattended system shutdown and network power management. Select models feature built-in RJ11 jacks for modem/fax surge protection. $50,000 Ultimate Lifetime Insurance covers connected equipment. • UL/cUL Approved • 2 year product warranty
VS Series Line-Interactive UPS Systems provide basic line-interactive operation at cost effective pricing. • Use the VS series to protect and support PCs, workstations and servers. • All VS UPS Systems feature automatic voltage regulation (AVR), which correct brownouts without draining battery power. • During blackouts, VS models provide reliable battery backup support. • All VS models include built-in surge suppression and line noise filtering as well as Ultimate Lifetime Insurance (which covers connected equipment against surge damage for life). • A USB port and FREE PowerAlert Software (web download) provide automatic unattended system shutdown. • UL/cUL approved • 2 year product warranty
OmniSmart Digital UPS System offers voltage regulation, surge suppression and long-lasting battery support for personal computers, home entertainment systems and media centers. • LCD display indicates input voltage, battery capacity and a variety of operation conditions. • 8 outlets (4 UPS/surge, 4 surge only) • USB port with HID protocol support, cabling and PowerAlert monitoring software (Web download) • Corrects brownouts as low as 89V • $200,000 Ultimate Lifetime Insurance (USA, Puerto Rico and Canada only) • 2 year product warranty

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
BC Personal Standby			
3 Outlets, 300VA, 175W	TL196-ND	70.00	BCPERS300
3 Outlets, 450VA, 280W	TL197-ND	102.88	BCPERS450
BC PRO Standby			
6 Outlets, 600VA, 345W	TL198-ND	138.54	BCPRO600
6 Outlets, 1050VA, 705W	TL128-ND	372.00	BCPRO1050
Internet Office Standby			
6 Outlets, 700VA, 425W	TL202-ND	142.64	INTERNETOFFICE700
Omnismart Line-Interactive			
6 Outlets, 500VA, 300W	TL175-ND	178.51	OMNISMART500
6 Outlets, 700VA, 425W	TL174-ND	257.00	OMNISMART700
VS Series Line-Interactive			
7 Outlets, 800VA, 475W, RJ-11	TL353-ND	140.00	OMNIVS800
8 Outlets, 1000VA, 500W, RJ-11	TL306-ND	159.00	OMNIVS1000
8 Outlets, 1500VA, 940W, RJ-45	TL307-ND	253.00	OMNIVS1500XL
9 Outlets, 2200VA 1600W	TL357-ND	810.00	SMART2200VS
OmniSmart Digital UPS			
8 Outlets, 650VA, 350W	TL358-ND	132.00	OMNI650LCD
8 Outlets, 900VA, 475W	TL359-ND	147.00	OMNI900LCD

KVM Switches

KVM Switches control multiple computers with 1 keyboard, monitor and mouse console. Simple plug-and-play setup. Offers full compatibility with all major operating systems and support for most keyboards and mice. **Features:** • Adapters allow you to control Mac or SUN computers through any Tripp Lite PS/2 KVM Switch • Simple to use switches and adapters require no software or system configurations

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
2 Port Desktop PS/2 with Two Cables	TL343-ND	79.99	B022-002-KT-R
4 Port Desktop PS/2 with Cable	TL345-ND	99.99	B022-004-R
Cable for PS/2 KVM Switch, 6'	TL346-ND	29.99	P774-006
Cable for USB KVM Switch, 6'	TL351-ND	13.99	P758-006

Line Conditioners

Line conditioners let you work through brownouts for unlimited time periods without using emergency power such as UPS systems. Line conditioners automatically adjust under- and over-voltages to provide safe computer-grade AC power meeting ANSI C84.1 specifications. Full surge protection and noise filtering to eliminate erratic voltages coming into your equipment. Lifetime surge protection warranty (lightning strikes) and a full 2 year product warranty on all line conditioners.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
4 Outlets, 1200W	TL013-ND	172.00	LC1200
6 Outlets, 600W	TL283-ND	135.00	LS606M
6 Outlets, 1800W	TL014-ND	255.00	LC1800
6 Outlets, 2400W	TL044-ND	385.00	LC2400
14 Outlets, 2400W, Rackmount	TL028-ND	499.00	LCR2400

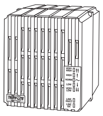

SmartPro® Intelligent UPS Systems

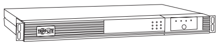

SmartPro UPS Systems: provide intelligent, line-interactive battery backup for networks and servers. SmartPro systems allow you to work through short blackouts or safely shut down during longer ones. Communication port(s) work with PowerAlert Software to provide automatic unattended shutdown. Tripp Lite's PowerAlert Software is the only UPS software capable of managing every type and brand of UPS on your network, from every manufacturer. Up to $250,000 Ultimate Lifetime Insurance (USA and Canada only). No warranty cards required for coverage. **SmartPro Digital UPS:** • LCD display indicates input voltage, battery capacity and a variety of operating conditions • 8 AC outlets (4 UPS, 4 surge only) • USB port with HID protocol support and complete cabling • $250,000 Ultimate Lifetime Insurance (USA and Canada only) • 2 year product warranty

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
SmartPro Rackmount UPS Systems			
6 Outlets, 500VA, 300W	TL309-ND	189.00	SMART500RT1U
6 Outlets, 750VA, 450W	TL289-ND	434.00	SMART750RM1U
6 Outlets, 1000VA, 640W	TL243-ND	567.00	SMART1000RM1U
9 Outlets, 3000VA, 2250W	TL239-ND	1239.00	SMART3000RM2U
14 Outlets, 5000VA, 4000W	TL317-ND	3509.01	SMART5000RT3U
SmartPro Net UPS Systems			
6 Outlets, 700VA, 450W	TL158-ND	295.00	SMART700
6 Outlets, 1500VA, 980W	TL290-ND	444.00	SMART1500
6 Outlets, 2200VA, 1700W	TL279-ND	879.00	SMART2200NET
8 Outlets, 3000VA, 2400W	TL280-ND	1190.00	SMART3000NET
SmartPro Digital UPS Systems			
8 Outlets, 1000VA, 500W	TL360-ND	194.00	SMART1000LCD
8 Outlets, 1200VA, 700W	TL361-ND	242.00	SMART1200LCD
8 Outlets, 1500VA, 900W	TL362-ND	287.00	SMART1500LCD

True On-Line UPS Systems with Zero Transfer Time

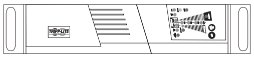

Tripp Lite gives you the benefits of zero transfer time rackmount UPS protection at an affordable price. These units provide full brownout and blackout protection and a fully regulated output, as each unit continuously conditions all power to your equipment. Full spike and surge protection as well as noise filtering provided by Tripp Lite's double conversion on-line power. $250,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 1000VA, 800W	TL342-ND	571.00	SU1000XLA
6 Outlets, 1000VA, 800W	TL354-ND	667.00	SU1000RTXL2UA
6 Outlets, 1500VA, 1200W	TL355-ND	863.00	SU1500RTXL2UA
7 Outlets, 2200VA, 1600W	TL356-ND	1265.00	SU2200RTXL2UA
9 Outlets, 3000VA, 2400W	TL316- ND	1853.00	SU3000RTXL3U
Tower Kit with 2 Base Stands, Expandable from 2U to 9U	TL344-ND	77.00	2-9USTAND

Medical-Grade UPS System, Isolation Transformers and Power Strip

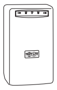

Protect health care equipment and computers. Models include built-in isolation transformers to reduce cumulative leakage of all connected equipment to less than 300µA. UL2601-1 listed for use in patient care areas. UPS systems offer automatic voltage regulation and up to 2 communication ports. Isolation transformers reduce line and common mode noise. All models include hospital-grade plug and receptacles.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
UPS System			
4 Outlets, 1 Comm. Port, 2 Line Modem/Fax, 330VA	TL253-ND	442.00	OMNISMART350HG
Isolation Transformers			
2 Outlets, 6' Cord, 250W	TL257-ND	188.00	IS250HG
4 Outlets, 6' Cord, 500W	TL256-ND	271.00	IS500HG
4 Outlets, 6' Cord, 1000W	TL255-ND	425.68	IS1000HG
NEW! Power Strip NEW!			
4 Outlets, 15' Cord, 15A	TL374-ND	124.00	PS-415-HGULTRA

120V Power Strips

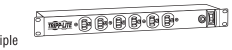

Tripp Lite power strips are a convenient solution for applications in which multiple AC outlets are needed without surge or line noise protection. Power strips are ideal for mounting inside rack enclosures or on walls, workbenches and more. Sturdy metal housing stands up to demanding network, lab or factory environments.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Horizontal / Vertical Power Strips			
8 Outlets, 24" Power Outlet Strip, 120V	TL206-ND	79.00	PS2408
12 Outlets, 36" Power Outlet Strip, 120V	TL207-ND	85.00	PS3612
16 Outlets, 48" Power Outlet Strip, 120V	TL208-ND	90.00	PS4816
20 Outlets, 60" Power Outlet Strip, 120V	TL318-ND	99.00	PS6020
24 Outlets, 72" Power Outlet Strip, Surge, Metal Case, On/Off Light, Gray	TL319-ND	99.00	SS7619-15
Rackmount Power Strips			
12 Outlets, 19" Rackmount Outlet Strip, 120V	TL213-ND	69.00	RS-1215
12 Outlets, 19" Rackmount Surge Strip, 450 Joules, 120V	TL262-ND	79.00	DRS-1215
12 Outlets, 19" Rackmount Outlet Strip, 20A, 120V	TL265-ND	86.42	RS-1215-20
12 Outlets, 19" Rackmount Outlet Strip, 15A, 120V, R/A Receptacles	TL266-ND	69.00	RS-1215-RA
16 Outlets, 48" Surge Power Strip, 450 Joules, 120V	TL274-ND	85.00	SS7415-15
PDU Series Rackmount — Power Distribution Strips			
8 Outlets, Digital Current Display, 2-12ft. Cords, 15A	TL369-ND	579.00	PDUMH15AT
13 Outlets, 19" Rack Strip, No Power Switch, 20A, 120V, Locking Plug	TL297-ND	250.00	PDU1220T
13 Outlets, Digital Current Display, 15ft. Cord, 15A	TL365-ND	177.00	PDUMH15
14 IEC-320 Outlets, 19" Rack Strip, No Power Switch, 16A, 100-240V	TL270-ND	260.00	PDU12IEC
16 Outlets, Digital Current Display, 15ft. Cord, 15A	TL366-ND	165.00	PDUMV15
16 Outlets, Digital Current Display, 2-12ft. Cords, 20A	TL370-ND	745.00	PDUMH20AT
20 Outlets, Digital Current Display, 15ft. Cord, 20A	TL367-ND	219.00	PDUMV20
32 Outlets, Digital Current Display, 2-10ft. Cords, 40A	TL368-ND	466.00	PDUMV40

ISOBAR® Rackmount Surge Suppressors

The same premium features as the Isobar line in convenient, space-saving rackmount configurations. Exclusive isolated filter banks eliminate interference between connected equipment. "Cascade Circuitry" to increase protection for more sensitive devices. Complete surge, spike and line noise protection. $25,000 Ultimate Lifetime Insurance.

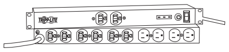

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
12 Outlets, 15' Cord, 750 Joules	TL027-ND	215.00	IBAR12
12 Outlets, 15' Cord, 1200 Joules	TL227-ND	195.00	IBAR12ULTRA
12 Outlets, 15' Cord, 1200 Joules, 20A	TL282-ND	230.73	IBAR12/20ULTRA

ISOBAR® Premium Surge Suppressors

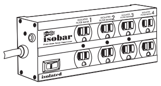

ISOBAR is the most electronically advanced surge suppressor available today. Exclusive isolated filter banks eliminate interference between connected equipment. **Only ISOBAR provides:** • Superior RFI/EMI noise suppression • "Cascade Circuitry" to increase protection for more sensitive devices • Surge Suppression up to 13,000 amp spikes • Rackmount model (ISOBAR8RM) for industrial and sound applications • Up to 24 active filtering components • Meets IEEE 587 A and B Specifications • Less than 5 nanosecond transient response time. Up to $250,000 Ultimate Lifetime Insurance covers connected equipment against surge damage, including direct lightning strikes...for life.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
2 Outlets, 6' (1.83m) Cord	TL003-ND	60.00	IBAR2-6
6 Outlets, 6' (1.83m) Cord, Diag. LEDs, Modem/Fax, 2 Line Coax.	TL205-ND	119.95	ISOBAR6DBS
4 Outlets, 6' (1.83m) Cord, with Diag. LED	TL076-ND	89.95	ISOBAR4ULTRA
6 Outlets, 6' (1.83m) Cord, with Diag. LED	TL077-ND	104.95	ISOBAR6ULTRA
8 Outlets, 12' (3.66m) Cord, with Diag. LED	TL078-ND	116.95	ISOBAR8ULTRA
8 Outlets, 12' (3.66m) Cord, with Remote Power Switch	TL050-ND	145.00	ISOBAR8RM
4 Outlets, 6' (1.83m) Cord, Modem/Fax	TL009-ND	99.95	ISOTEL

Power Strips and Surge Suppressors with Hospital-Grade Receptacles and Plug

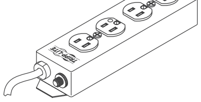

Features:
• Ideal choice where durability and reliability are required • Rugged all-metal housing • Mounting keyhole slots/flanges
Note: Not for use where NEC requires hospital-grade receptacles.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Surge Suppressors			
6 Outlets, 790 Joules, 15' Cord, 15A, Metal Housing	TL258-ND	92.00	SPS-615-HG
6 Outlets, 940 Joules, 15' Cord, 12A, Metal Housing	TL281-ND	117.00	ISOBAR6ULTRAHG
Power Strips			
4 Outlets, 15' Cord, 9" Power Strip, 15A	TL311-ND	74.00	PS-415-HG
6 Outlets, 6' Cord, 14" Power Strip, 15A	TL312-ND	81.00	PS-606-HG
6 Outlets, 15' Cord, 12" Power Strip, 15A, Plastic	TL260-ND	86.00	PS-615-HG

Economy Surge Suppressors

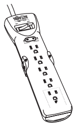

Protect all computers and home office electronics against damaging surges, spikes and line noise. Select Protect It!™ Surge Suppressors offer space saving right angle plugs, transformer friendly designs and up to 2350 joules of surge absorption. Up to $75,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Protect It!™ Surge Suppressors			
4 Outlets, 390 Joules, 4' Cord	TL313-ND	10.49	TLP404
6 Outlets, 250 Joules, 2' Cord	TL229-ND	9.49	TLP602
6 Outlets, 720 Joules, 4' Cord	TL264-ND	10.99	TLP604
7 Outlets, 750 Joules, 6' Cord	TL083-ND	17.99	STRIKER
7 Outlets, 1000 Joules, 12' Cord	TL263-ND	24.99	TLP712
7 Outlets, 2350 Joules, 7' Cord	TL085-ND	27.99	SUPER7
8 Outlets, 1900 Joules, 8' Cord	TL275-ND	33.99	TLP808
Spike Stik, 6 Outlets, 360 Joules, 6' Cord	TL026-ND	26.99	STIK
Super 8, 8 Outlets, 1200 Joules, 8' Cord	TL011-ND	48.00	SK6-6

Direct Plug-In Surge Suppressors

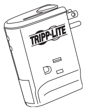

These direct plug-in models offer a compact surge protection solution for all computers and home/office electronics. Direct plug-in Isobar models offer premium surge protection. The Traveler™ model offers ideal protection for notebook computers and fits easily into any briefcase. Select models offer diagnostic LEDs, transformer friendly designs and up to 600 joules of surge absorption. Up to $100,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Traveler™, Direct Plug-In, 2 Outlets, RJ11, 2 LEDs	TL008-ND	25.95	TRAVELER
Isobar, Direct Plug-In, 2 Outlets, 600 Joules, 3 LEDs	TL276-ND	59.95	ULTRABLOK428
Isobar, Direct Plug-in, 2 Outlets, 600 Joules	TL002-ND	48.00	ISOBLOK2-0
Isobar, Direct Plug-in, 2 Outlets, 600 Joules, with 1 RJ11 Jack	TL080-ND	69.95	ULTRAFAX

Data Line Surge Suppressors

Data networks are increasingly susceptible to problems from dataline transients as transmission rates continue to rise. Tripp Lite's dataline surge suppressors safely divert damaging surges before they reach your critical network equipment. Protects I/O and Serial ports, modem fax cards, network interface cards and motherboards.

Lines Protected	Interface Type	Digi-Key Part No.	Price Each	Tripp Lite Part No.
1-8	RJ45	TL320-ND	29.95	DNET1
4, 5 and 3, 6	RJ11/RJ45	TL154-ND	32.50	DTEL2
1-9 and chassis	DB9 Serial	TL151-ND ***NEW!***	24.50	DB9

Modem/Fax and Multimedia Surge Suppressors

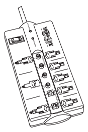

Protect all computers and home/office electronics, including modem/fax and multimedia equipment against damaging surges, spikes and line noise. Select models offer space saving right angle plugs, transformer friendly designs up to 3690 joules of surge absorption. Modem/fax, coaxial and or Ethernet surge protection. Up to $250,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 870 Joules, 4' Cord, 1 In/1 Out RJ11	TL230-ND	13.99	TLP604TEL
7 Outlets, 1680 Joules, 6' Cord, 2 In/2 Out Coax, 1 In/1 Out RJ11	TL348-ND	42.99	HT706TSAT
7 Outlets, 1080 Joules, 6' Cord, 1 In/1 Out Coax	TL347-ND	34.99	HT706TV
7 Outlets, 2470 Joules, 7' Cord, 1 In/1 Out RJ11	TL105-ND	35.99	SUPER7TEL
7 Outlets, 1270 Joules, 7' Cord, 1 In/1 Out RJ11	TL299-ND	25.99	TLP707TEL
8 Outlets, 2820 Joules, 8' Cord, 1 In/2 Out RJ11	TL232-ND	39.99	TLP808TEL
8 Outlets, 3690 Joules, 10' Cord, 2 RJ11/Coax./Ethernet	TL234-ND	65.99	TLP810NET
10 Outlets, 2395 Joules, 8' Cord, 1 In/2 Out RJ11	TL300-ND	48.99	TLP1008TEL

PowerVerter® DC-to-AC Inverters

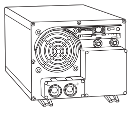

Ultra-Compact Inverters are housed in a sturdy portable metal case with 12V cigarette lighter plug built-in. Ideal for laptops, test equipment and TV-VCR units. **Peak Power** models are able to handle up to twice their normal wattage for short periods of time delivering high start-up current, frequency controlled AC, making them ideal for motors, refrigerators, power tools and microwaves. **APS Inverters** feature modified sine wave, frequency controlled, fully regulated output. These units automatically sense and switch AC between line power and battery power. A built-in recharge circuit will recharge the battery when line voltage becomes available. Perfect for sump pumps, emergency lighting, and more.

Description (H x W x D)	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Ultra-Compact Inverters			
150W, 1 Outlet with Cigarette Plug, 1.65" x 3.6" x 5.6"	TL295-ND	45.00	PV150
375W, 2 Outlets with Cigarette Plug, 1.75" x 4.5" x 6"	TL296-ND	72.00	PV375
1000W, 3 Outlets, Permanent-Mount, 4" x 6" x 12.5"	TL225-ND	308.00	PV1000HF
1800W, 4 Outlets, Permanent-Mount, 4" x 10" x 10.5"	TL226-ND	430.00	PV1800HF
Peak Power Inverters (Frequency Controlled)			
750W, 2 Outlets, 7" x 8.75" x 9"	TL100-ND	255.00	PV750FC
1250W, 2 Outlets, 7" x 8.75" x 9"	TL364-ND	402.00	PV1250FC
2000W, 2 Outlets, 6.5" x 8.5" x 12"	TL148-ND	650.00	PV2000FC
APS Premium Inverters with Charger			
750W, 2 Outlet, 7" x 7" x 10"	TL103-ND	439.00	APS750
1250W, 2 Outlets, with Charger, 7" x 8.75" x 9"	TL104-ND	616.00	APS1250

Precision — Regulated DC Power Supplies

Features: • Current limiting electronic foldback for automatic overcurrent protection in case of overload; time controlled on 7 amp and larger models • Regulated output voltage maintains up to 95% of no load value • High quality filtering provides for very low ripple/low noise operation • Large heat sinks and vented cabinet provide cool operation for continuous use and long life of the unit

Description	Application	Digi-Key Part No.	Price Each	Tripp Lite Part No.
13.8VDC, 3A	CBs, Car Tape Players	TL185-ND	38.00	PR3
13.8VDC, 4.5A	CBs, Car Tape Players	TL195-ND	49.00	PR4.5
13.8VDC, 7A	Single Side-Band CBs, Car Stereos	TL186-ND	60.00	PR7
13.8VDC, 10A	30W Transmitters, 2-Way Radios	TL187-ND	90.00	PR10
13.8VDC, 12A	40W Transmitters, 2-Way Radios	TL188-ND	97.00	PR12
13.8VDC, 20A	60W Transmitters, Commercial Radios	TL272-ND	142.00	PR20
13.8VDC, 25A	75-100W Ham, Commercial Radios	TL190-ND	185.00	PR25
13.8VDC, 30A	125W Ham, Commercial Radios	TL273-ND	194.00	PR30
13.8VDC, 40A	150-200W Ham, Commercial Radios	TL191-ND	239.00	PR40
13.8VDC, 50A	225W Ham, Commercial Radios	TL192-ND	292.00	PR50
13.8VDC, 60A	250-300W Ham, Commercial Radios	TL241-ND	343.00	PR60

USB Battery Charger

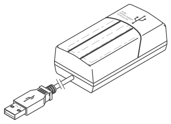

Features: • Dual and single charging modes provide both normal and rapid battery charging • USB port adds connection capability for any USB peripheral • 2 status LEDs indicate the batteries are fully charged and ready for use • Multiple battery design accommodates both AA and AAA NiMH batteries • Auto-off control is designed to automatically shut the charger off to avoid overcharging the batteries • Includes two AA and two AAA NiMH batteries

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Rapid USB Recharger..	TL363-ND	34.95	IN3006CG

WABER® - TRIPP-LITE Power Strips

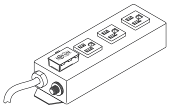

Features: • Economical outlet strips wherever you need them • Variety of models for home office/small office computers and other electronic equipment • Seamless steel case with baked-on finish on select models

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
3 Outlets, 6' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL322-ND	22.00	3SP
4 Outlets, 6' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL337-ND	24.00	UL603CB-6
4 Outlets, 6' Cord, Metal Case, On/Off Light, Beige with Tabs	TL323-ND	18.85	4SPDX
5 Outlets, 6' Cord, Metal Case, No Switch, Blue/Gray with Tabs	TL321-ND	20.00	602
5 Outlets, 15' Cord, Metal Case, No Switch, Blue/Gray with Tabs	TL324-ND	29.00	602-15
6 Outlets, 4' Cord, Plastic Case, On/Off Switch, Gray with Tabs	TL333-ND	10.00	PS6
6 Outlets, 6' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL326-ND	30.00	6SP
6 Outlets, 6' Cord, Metal Case, On/Off Switch, Beige with Tabs	TL325-ND	17.31	6NX6
6 Outlets, 6' Cord, Metal Case, On/Off Light, Beige with Tabs	TL327-ND	22.69	6SPDX
6 Outlets, 15' Cord, Metal Case, On/Off Light, Beige with Tabs	TL328-ND	29.23	6SPDX-15
6 Outlets, 15' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL335-ND	37.00	UL24CB-15
6 Outlets, 15' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL336-ND	38.00	UL24RA-15
6 (20A) Outlets, 15' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL338-ND	87.00	UL620-15
9 Outlets, 15' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL334-ND	41.00	UL17CB-15
10 Outlets, 15' Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL339-ND	59.00	UL800CB-15

Surge Suppressors

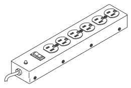

Features:
- Economical surge suppressors protect against damaging surges, spikes and line noise
- Variety of models for home office/small office computers and other electronic equipment
- Seamless steel case with baked-on finish

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 450 Joules, 6' Cord, Metal Case, 3 Line Protection, with Tabs	TL331-ND	23.00	PM6NS
6 Outlets, 450 Joules, 6' Cord, Metal Case, 3 Line Protection, with Tabs	TL332-ND	21.00	PM6SN1
6 Outlets, 600 Joules, 6' Cord, Metal Case, 3 Line Protection, with Tabs	TL329-ND	45.00	DG115-SI

Digi-Key® Capacitor Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Panasonic Miniature Aluminum Electrolytic		
KG Series - 10 each of 18 popular values (180 total pieces) — ***RoHS Compliant***	P900-KIT-ND	34.95
Panasonic Miniature Radial Lead Electrolytic		
M-Series - 10 each of 17 popular values (170 total pieces) — ***RoHS Compliant***	M-KIT-ND	69.95
NHG-Series - 10 each of 18 popular value (180 total pieces) — ***RoHS Compliant***	NHG-KIT-ND	69.95
Panasonic Miniature Radial Lead Electrolytic		
KA-Series - 10 each of 16 popular values (160 total pieces) — ***RoHS Compliant***	P835-KIT-ND	29.95
Panasonic Stacked Metal Film		
V-Series, 50 Volt - 10 each of 18 popular values (180 total pieces)	P4542-KIT-ND	49.95
V-Series, 100 Volt - 10 each of 18 popular values (180 total pieces) — ***RoHS Compliant***	P4700-KIT-ND	49.95
Panasonic Metal Film (Interference Suppressors)		
X-Y Series - 10 each of 10 popular values (100 total pieces)	P4650-KIT-ND	59.95
Panasonic Metallized Polyester		
E-Series - 10 each of 14 popular values and 30 pieces of #E2104 (170 total pieces)	E-KIT-ND	59.95
Panasonic Polyester		
B-Series - Various quantities of 12 popular values (300 total pieces) — ***RoHS Compliant***	P4550-KIT-ND	29.95
Panasonic Polyester Foil		
M-Series, 200 Volt - 10 each of 15 popular values (150 total pieces)	M200-KIT-ND	29.95
M-Series, 400 Volt - 10 each of 15 popular values (150 total pieces)	M400-KIT-ND	29.95
Panasonic Polypropylene		
P-Series - 10 each of 15 popular values (150 total pieces) — ***RoHS Compliant***	P3100-KIT-ND	69.95
Panasonic 0402 Chip Ceramic		
NPO Series - 10 each of 28 popular values (280 total pieces) — ***RoHS Compliant***	PCC13-KIT-ND	49.95
X7R Series - 10 each of 30 popular values (300 total pieces)	PCC14-KIT-ND	45.95
Panasonic 0603 Chip Ceramic		
NPO Series -10 each of 30 popular values (300 total pieces) — ***RoHS Compliant***	PCC9-KIT-ND	29.95
X7R and X5R Series - 10 each of 30 popular values (300 total pieces)	PCC15-KIT-ND	29.95
Panasonic 0805 Chip Ceramic		
NPO Series - 10 each of 30 popular values (300 total pieces) — ***RoHS Compliant***	PCC7-KIT-ND	29.95
X7R Series - 10 each of 30 popular values (300 total pieces)	PCC16-KIT-ND	29.95
Panasonic 1206 Chip Ceramic		
NPO Series - 10 each of 14 popular values (140 total pieces)	PCC17-KIT-ND	89.95
Panasonic Multilayer Ceramic Chip (MLCC) Capacitor		
X5R Series - 20 each of 20 popular values (400 total pieces) — ***RoHS Compliant***	PCC18B-KIT-ND	49.95
Panasonic 0201/0402 High-Q (MLCC) Chip Ceramic		
0201/High-Q Series - 20 each of 21 popular values (420 total pieces) — ***RoHS Compliant***	PCC19-KIT-ND	59.00
0402/High-Q Series - 20 each of 30 popular values (600 total pieces) — ***RoHS Compliant***	PCC20-KIT-ND	59.00

Digi-Key® Serial EEPROM Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Microchip Serial EEPROM Kit **Low-Density** — 3 pieces each of parts 24AA01-I/PDK, 25AA040-I/P and 93AA46B-I/P (9 total pieces) — ***RoHS Compliant***	SEEPROM1-KIT-ND	17.95
Microchip Serial EEPROM Kit **Mid-Density** — 3 pieces each of parts 24AA16-I/P, 25AA080B-I/P and 93AA66C-I/P (9 total pieces)	SEEPROM2-KIT-ND	17.95
Microchip Serial EEPROM Kit **High-Density** — 3 pieces each of parts 24AA512-I/P, 25AA640-I/P and 93AA86C-I/P (9 total pieces)	SEEPROM3-KIT-ND	19.95
Microchip Serial EEPROM Kit **Combo Kit** — Contains everything in the Low-Density, Mid-Density and High-Density Kits (27 total pieces)	SEEPROM4-KIT-ND	29.95

Digi-Key® Fuse Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Littelfuse 467 Series 0603 Lead Free Fast Acting Fuses 10 each of 14 fuses (140 total pieces) — ***RoHS Compliant***	467-KIT-ND	99.95
Littelfuse 466 Series 1206 Lead Free Fast Acting Fuses 10 each 15 fuses (150 total pieces) — ***RoHS Compliant***	466-KIT-ND	89.95
Littelfuse 154 Series Nano^{2} SMT Fast/Slo-Blo® Fuses 5 each 18 fuses (90 total pieces) — ***RoHS Compliant***	154-KIT-ND	149.95
Littelfuse 251L/473L Series PICO II Fast/Slo-Blo® Axial Fuses 5 each 18 fuses (90 total pieces) – Kit does not come with a kit box — ***RoHS Compliant***	251L-473L-KIT-ND	99.96
Littelfuse 216P Series Fast Acting Hi-Breaking 5x20mm Fuses 5 each 18 fuses (90 total pieces) — ***RoHS Compliant***	216P-KIT-ND	159.97
Littelfuse 217P Series Fuse Fast Acting 5 each of 18 fuses (90 total pieces) — ***RoHS Compliant***	217P-KIT-ND	39.95
Littelfuse 218P Series Fuse Slo-Blo® 5 each of 18 fuses (90 total pieces) — ***RoHS Compliant***	218P-KIT-ND	89.95
Littelfuse 257/297 Series Mini and ATO Blade Fuses 5 each 18 fuses (90 total pieces) — ***RoHS Compliant***	257-297-KIT-ND	33.95
Littelfuse 312P Series Fast Acting 3AG Fuses 5 each 28 fuses and 10 each 2 fuse clips (160 total pieces) — ***RoHS Compliant***	312P-KIT-ND	109.96
Littelfuse 313P Series Slo-Blo® 3AG Cartridge 5 each 34 fuses and 10 each 2 fuse clips (190 total pieces) — ***RoHS Compliant***	313P-KIT-ND	89.95
Wickmann Fuses — ***RoHS Compliant***		
10 each of 17 popular fuses and 15 of TR5 Fuseholder (185 total pieces)	WK0113-KIT-ND	124.76
10 each of 17 popular fuses and 15 of TR5 Fuseholder (185 total pieces)	WK0116-KIT-ND	142.91
10 each of 17 popular fuses and 20 of TE5 Fuseholder (190 total pieces)	WK0117-KIT-ND	143.81

Digi-Key® Potentiometer Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Panasonic 6mm Carbon Trimmer, Laydown and Standup Version 10 each of 14 popular values (140 pieces) — ***RoHS Compliant***	DXA-KIT-ND	29.95
Panasonic SMT Trimmer		
P1D Series - 10 each of 13 values (130 total pieces)	P1D-KIT-ND	43.95
P1E Series - 10 each of 13 values (130 total pieces)	P1E-KIT-ND	43.95

Digi-Key® Resistor Kits

Conveniently packaged
into bags per value.

Description	Digi-Key Part No.	Price Each
Panasonic 0402 1% Chip Resistor Assortments, 1/16 Watt		
50 each of values 10 ohm to 97.6 ohm (4,800 pieces)	RSM1L-ND	189.00
50 each of values 100 ohm to 976 ohm (4,800 pieces) — ***RoHS Compliant***	RSM2L-ND	189.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3L-ND	189.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4L-ND	189.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5L-ND	189.00
Panasonic 0402 5% Chip Resistor Assortments, 1/16 Watt		
50 each of every other value from 10, 12, 15 etc 1.0M (3,050 pieces)	CR7A-KIT-ND	89.95
200 each of every other value from 10, 12, 15 etc 1.0M (12,200 pieces)	CR7-KIT-ND	169.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR8A-KIT-ND	89.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR8-KIT-ND	169.00
Panasonic 0603 1% Chip Resistor Assortments, 1/16 Watt		
50 each of values 10 ohm to 97.6 ohm (4,800 pieces)	RSM1H-ND	129.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2H-ND	129.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3H-ND	129.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4H-ND	129.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5H-ND	129.00

§ Does not come with plastic box

(Continued)

Digi-Key® Resistor Kits *(Cont.)*

Conveniently packaged
into bags per value.

Description	Digi-Key Part No.	Price Each
Panasonic 0603 5% Chip Resistor Assortments, 1/16 Watt		
50 each of every other value from 10, 12, 15 etc 1.0M (3,050 pieces)	CR5A-KIT-ND	85.95
200 each of every other value from 10, 12, 15 etc 1.0M (12,200 pieces)	CR5-KIT-ND	129.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR6A-KIT-ND	85.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR6-KIT-ND	129.00
Panasonic 0805 1% Chip Resistor Assortments, 1/10 Watt		
50 each of values 10 ohm to 97.6 ohm (4,800 pieces)	RSM1CA-ND	119.95
200 each of values 10 ohm to 97.6 ohm (19,200 pieces)	RSM1C-ND	299.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2CA-ND	119.95
200 each of values 100 ohm to 976 ohm (19,200 pieces)	RSM2C-ND	299.00
50 each of values 1.00K to 9.76K (4,800 pieces) — ***RoHS Compliant***	RSM3CA-ND	119.95
200 each of values 1.00K to 9.76K (19,200 pieces)	RSM3C-ND	299.00
50 each of values 10.0K to 97.6K (4,800 pieces) — ***RoHS Compliant***	RSM4CA-ND	119.95
200 each of values 10.0K to 97.6K (19,200 pieces)	RSM4C-ND	299.00
50 each of values 100K to 1.00M (4,850 pieces) — ***RoHS Compliant***	RSM5CA-ND	119.95
200 each of values 100K to 1.00M (19,400 pieces)	RSM5C-ND	299.00
Panasonic 0805 5% Chip Resistor Assortments, 1/10 Watt		
50 each of every other value from 10, 12, 15 etc. 1.0M (3,050 pieces) — ***RoHS Compliant***	CR3A-KIT-ND	79.95
200 each of every other value from 10, 12, 15 etc. 1.0M (12,200 pieces)	CR3-KIT-ND	129.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR4A-KIT-ND	79.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR4-KIT-ND	129.00
Panasonic 1206 1% Chip Resistor Assortments, 1/8 Watt		
50 each of values 10.0 ohm to 97.6 ohm (4,800 pieces)	RSM1FA-ND	129.95
200 each of values 10.0 ohm to 97.6 ohm (19,200 pieces)	RSM1F-ND	299.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2FA-ND	129.95
200 each of values 100 ohm to 976 ohm (19,200 pieces)	RSM2F-ND	299.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3FA-ND	119.95
200 each of values 1.00K to 9.76K (19,200 pieces)	RSM3F-ND	299.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4FA-ND	129.95
200 each of values 10.0K to 97.6K (19,200 pieces)	RSM4F-ND	299.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5FA-ND	129.95
200 each of values 100K to 1.00M (19,400 pieces)	RSM5F-ND	299.00
Panasonic 1206 5% Chip Resistor Assortments, 1/8 Watt		
50 each of every other value from 10, 12, 15 etc. 1.0M (3,050 pieces)	CR1A-KIT-ND	79.95
200 each of every other value from 10, 12, 15 etc. 1.0M (12,200 pieces)	CR1-KIT-ND	129.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR2A-KIT-ND	79.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR2-KIT-ND	129.00
Susumu 0201 .5% SMD Resistor, 1/20 Watt		
10 each of values 47Ω ~ 8.2KΩ (150 pieces) — ***RoHS Compliant***	RR0306PD-1-KIT-ND	9.95
Susumu 0402 .5% SMD Resistor, 1/16 Watt — *RoHS Compliant*		
10 each of values 10Ω ~ 82Ω (190 pieces)	RR0510RD-1-KIT-ND	4.95
10 each of values 100Ω ~ 4.3KΩ (400 pieces)	RR0510PD-1-KIT-ND	9.95
10 each of values 4.7KΩ ~ 100KΩ (330 pieces)	RR0510PD-2-KIT-ND	7.95
Susumu 0402 1% SMD Resistor, 1/6 Watt		
10 each of values .10Ω ~ 47Ω (330 pieces) — ***RoHS Compliant***	RP1005SF-1-KIT-ND	59.95
Susumu 0603 .05% SMD Resistor, 1/16 Watt — *RoHS Compliant*		
10 each of values 47Ω ~ 750Ω (300 pieces)	RG1608NW-1-KIT-ND	175.95
10 each of values 820Ω ~ 13KΩ (300 pieces)	RG1608NW-2-KIT-ND	175.95
10 each of values 15KΩ ~ 270KΩ (310 pieces)	RG1608NW-3-KIT-ND	175.95
Susumu 0603 .1% SMD Resistor, 1/16 Watt — *RoHS Compliant*		
10 each of values 15.4KΩ ~ 75KΩ (500 pieces)	RR0816PB-4-KIT-ND	59.95
10 each of values 76.8KΩ ~ 332KΩ (370 pieces)	RR0816PB-5-KIT-ND	49.95
Susumu 0603 .5% SMD Resistor, 1/16 Watt — *RoHS Compliant*		
10 each of values 10Ω ~ 91Ω (440 pieces)	RR0816QD-1-KIT-ND	13.95
10 each of values 100Ω ~ 806Ω (500 pieces)	RR0816PD-1-KIT-ND	15.95
10 each of values 820Ω ~ 4.75KΩ (500 pieces)	RR0816PD-2-KIT-ND	15.95
10 each of values 4.87KΩ ~ 18.0KΩ (500 pieces)	RR0816PD-3-KIT-ND	15.95
10 each of values 18.2KΩ ~ 68.1KΩ (500 pieces)	RR0816PD-4-KIT-ND	15.95
10 each of values 69.8KΩ ~ 360KΩ (390 pieces)	RR0816PD-5-KIT-ND	12.95
Susumu 0603 1% SMD Resistor, 1/5 Watt		
10 each of values .10Ω ~ 68Ω (350 pieces) — ***RoHS Compliant***	RP1608SF-1-KIT-ND	49.95
Susumu 0805 .05% SMD Resistor, 1/10 Watt — *RoHS Compliant*		
10 each of values 47Ω ~ 910Ω (320 pieces)	RG2012NW-1-KIT-ND	199.95
10 each of values 1.0KΩ ~ 20KΩ (320 pieces)	RG2012NW-2-KIT-ND	199.95
10 each of values 22KΩ ~ 470KΩ (330 pieces)	RG2012NW-3-KIT-ND	199.95
Susumu 0805 .5% SMD Resistor, 1/10 Watt — *RoHS Compliant*		
10 each of values 10Ω ~ 91Ω (390 pieces)	RR1220QD-1-KIT-ND	12.95
10 each of values 100Ω ~ 1.6KΩ (500 pieces)	RR1220PD-1-KIT-ND	15.95
10 each of values 1.65KΩ ~ 5.9KΩ (500 pieces)	RR1220PD-2-KIT-ND	15.95
10 each of values 6.04KΩ ~ 24.3KΩ (500 pieces)	RR1220PD-3-KIT-ND	15.95
10 each of values 24.9KΩ ~ 110KΩ (500 pieces)	RR1220PD-4-KIT-ND	15.95
10 each of values 115KΩ ~ 1.0MΩ (310 pieces)	RR1220PD-5-KIT-ND	9.95

Description	Digi-Key Part No.	Price Each
Susumu 0805 1% SMD Resistor, 1/4 Watt		
10 each of values .10Ω ~10.0Ω (500 pieces) — ***RoHS Compliant***	RL1220SF-1-KIT-ND	19.95
Susumu 0805 1% SMD Resistor, 1/3 Watt — *RoHS Compliant*		
10 each of values 12Ω ~ 100Ω (120 pieces)	RP2012SF-1-KIT-ND	13.95
10 each of values .10Ω ~ 10Ω (250 pieces)	RP2012TF-1-KIT-ND	29.95
Susumu 0805 2% SMD Resistor, 1/4 Watt		
10 each of values .022Ω ~ 10Ω (300 pieces) — ***RoHS Compliant***	RL1220SG-1-KIT-ND	15.95
Yageo 5% Carbon Film, 1/6 Watt — *RoHS Compliant*		
5 each of values 1.0, 1.2, 1.5, 1.8, 2.2Ω etc. thru 1.0MΩ (365 total pieces)	RS112-ND	16.96
5 each of values 1.1, 1.3, 1.6, 2.0, 2.4Ω etc. thru 910kΩ (360 total pieces)	RS212-ND	16.99
200 each of all 161 standard values 1.0Ω - 4.7MΩ (32,200 total pieces)	RSE200-ND	409.00
Yageo 5% Carbon Film, 1/4 Watt — *RoHS Compliant*		
5 ea. of values 1.0, 1.2, 1.5, 1.8, 2.2Ω etc. thru 1.0MΩ (365 total pieces)	RS125-ND	14.95
5 ea. of values 1.1, 1.3, 1.6, 2.0, 2.4Ω etc. thru 910kΩ (360 total pieces)	RS225-ND	14.95
200 ea. of all 169 standard values 1.0Ω - 10MΩ (33,800 total pieces)	RSQ200-ND	239.00
Yageo 5% Carbon Film, 1/2 Watt — *RoHS Compliant*		
5 ea. of values 1.0, 1.2, 1.5, 1.8, 2.2Ω etc. thru 1.0MΩ (365 total pieces)	RS150-ND	16.95
5 ea. of values 1.1, 1.3, 1.6, 2.0, 2.4Ω etc. thru 910kΩ (360 total pieces)	RS250-ND	16.95
200 ea. of all 161 standard values 1.0Ω - 4.7MΩ (32,200 total pieces)	RSH200-ND	335.00
Yageo 1% Metal Film, 1/4 Watt — *RoHS Compliant*		
5 each of values 10 ohm to 97.6 ohm (480 total pieces)	RS1X-ND	29.95
5 each of values 100 ohm to 976 ohm (480 total pieces)	RS2X-ND	29.95
5 each of values 1.00K to 9.76K (480 total pieces)	RS3X-ND	29.95
5 each of values 10.0K to 97.6K (480 total pieces)	RS4X-ND	29.95
5 each of values 100K to 1.00M (480 total pieces)	RS5X-ND	29.95
Yageo 5% Metal Oxide, 1 Watt — *RoHS Compliant*		
5 each of values 0.47 ohm to 56 ohm (255 total pieces)	RS101-ND	26.95
5 each of values 62 ohm to 7.5K (255 total pieces)	RS201-ND	26.95
5 each of values 8.2K to 1.0M (255 total pieces)	RS301-ND	26.95
Yageo 5% Metal Oxide, 2 Watt — *RoHS Compliant*		
5 each of values 0.47 ohm to 56 ohm (255 total pieces)	RS102-ND	29.95
5 each of values 62 ohm to 7.5K (255 total pieces)	RS202-ND	29.95
5 each of values 8.2K to 1.0M (255 total pieces)	RS302-ND	29.95
Yageo 5% Wirewound Rectangular, 5 Watt — *RoHS Compliant*		
5 each of values 0.30 ohm to 0.91 ohm (60 pieces)	RS105-ND	23.95
4 each of values 1.0 ohm to 9.1 ohm (96 pieces)	RS205-ND	32.95
4 each of values 10 ohm to 91 ohm (96 pieces)	RS305-ND	32.95
3 each of values 100 ohm to 2.0K (96 pieces)	RS405-ND	32.95
Yageo 5% Wirewound Rectangular, 10 Watt		
2 each of all 10 watt resistor values (168 total pieces) — ***RoHS Compliant***	RS110-ND	72.95
Yageo America 0402 1% Thick Film Chip Resistor Assortments, 1/16 Watt — *RoHS Compliant*		
50 each of values 1.00 ohm to 75.0 ohm (850 total pieces)	PHL1-KIT-ND	20.95
50 each of values 100 ohm to 910 ohm (1,100 pieces)	PHL2-KIT-ND	25.95
50 each of values 1.00K ohm to 9.53K ohm (1,650 pieces)	PHL3-KIT-ND	35.95
50 each of values 10.0K ohm to 97.6K ohm (2,800 pieces)	PHL4-KIT-ND	59.95
50 each of values 100K ohm to 1.00M ohm (1,600 pieces)	PHL5-KIT-ND	39.95
Yageo America 0603 1% Thick Film Chip Resistor Assortments, 1/10 Watt — *RoHS Compliant*		
50 each of values 1.00 ohm to 7.50 ohm (1,100 total pieces)	PHH1-KIT-ND	19.95
50 each of values 10.0 ohm to 97.6 ohm (5,650 total pieces)	PHH2-KIT-ND	79.95
50 each of values 100 ohm to 976 ohm (5,700 total pieces)	PHH3-KIT-ND	79.95
50 each of values 1.00K ohm to 9.76K ohm (5,700 total pieces)	PHH4-KIT-ND	79.95
50 each of values 10.0K ohm to 97.6K ohm (5,700 total pieces)	PHH5-KIT-ND	79.95
50 each of values 100K ohm to 1.00M ohm (5,750 total pieces)	PHH6-KIT-ND	79.95
Yageo America 0805 1% Thick Film Chip Resistor Assortments, 1/8 Watt — *RoHS Compliant*		
50 each of values 1.00 ohm to 9.76 ohm (5,200 total pieces)	PHC1A-KIT-ND	79.95
200 each of values 1.00 ohm to 9.76 ohm (20,800 total pieces)	PHC1-KIT-ND	169.95
50 each of values 10.0 ohm to 97.6 ohm (5,700 total pieces)	PHC2A-KIT-ND	79.95
200 each of values 10.0 ohm to 97.6 ohm (22,800 total pieces)	PHC2-KIT-ND	169.95
50 each of values 100 ohm to 976 ohm (5,700 total pieces)	PHC3A-KIT-ND	79.95
200 each of values 100 ohm to 976 ohm (22,800 total pieces)	PHC3-KIT-ND	169.95
50 each of values 1.00K ohm to 9.76K ohm (5,700 total pieces)	PHC4A-KIT-ND	79.95
200 each of values 1.00K ohm to 9.76K ohm (22,800 total pieces)	PHC4-KIT-ND	169.95
50 each of values 10.0K ohm to 97.6K ohm (5,650 total pieces)	PHC5A-KIT-ND	79.95
200 each of values 10.0K ohm to 97.6K ohm (22,600 total pieces)	PHC5-KIT-ND	169.95
50 each of values 100K ohm to 1.00M ohm (5,750 total pieces)	PHC6A-KIT-ND	79.95
200 each of values 100K ohm to 1.00M ohm (23,000 total pieces)	PHC6-KIT-ND	169.95
Yageo America 1206 1% Thick Film Chip Resistor Assortments, 1/4 Watt — *RoHS Compliant*		
50 each of values 1.00 ohm to 9.76 ohm (5,700 total pieces)	PHF1A-KIT-ND	125.95
200 each of values 1.00 ohm to 9.76 ohm (22,800 total pieces)	PHF1-KIT-ND	239.95
50 each of values 10.0 ohm to 97.6 ohm (5,700 total pieces)	PHF2A-KIT-ND	125.95
200 each of values 10.0 ohm to 97.6 ohm (22,800 total pieces)	PHF2-KIT-ND	239.95
50 each of values 100 ohm to 976 ohm (22,800 total pieces)	PHF3A-KIT-ND	125.95
200 each of values 100 ohm to 976 ohm (22,800 total pieces)	PHF3-KIT-ND	239.95
50 each of values 1.00K ohm to 9.76K ohm (5,700 total pieces)	PHF4A-KIT-ND	125.95
200 each of values 1.00K ohm to 9.76K ohm (22,800 total pieces)	PHF4-KIT-ND	239.95
50 each of values 10.0K ohm to 97.6K ohm (5,650 total pieces)	PHF5A-KIT-ND	125.95
200 each of values 10.0K ohm to 97.6K ohm (22,600 total pieces)	PHF5-KIT-ND	239.95
50 each of values 100K ohm to 1.00M ohm (5,750 total pieces)	PHF6A-KIT-ND	125.95
200 each of values 100K ohm to 1.00M ohm (23,000 total pieces)	PHF6-KIT-ND	239.95

§ Does not come with plastic box

(Continued)

Digi-Key® Resistor Kits (Cont.)

Conveniently packaged
into bags per value.

Description	Digi-Key Part No.	Price Each
Yageo America 0402 5% Thick Film Chip Resistor Assortments, 1/16 Watt — *RoHS Compliant* 50 each of values 1.0, 2.0, 3.0, 3.9 ohm etc. to 1.0M ohm (2,600 total pieces) . . . 200 each of values 1.0, 2.0, 3.0, 3.9 ohm etc. to 1.0M ohm (10,400 total pieces). . 50 each of values 1.1, 2.2, 3.3, 4.3 ohm etc. to 680K ohm (2,550 total pieces) . . . 200 each of values 1.1, 2.2, 3.3, 4.3 ohm etc. to 680K ohm (10,200 pieces).	PHJ1A-KIT-ND PHJ1-KIT-ND PHJ2A-KIT-ND PHJ2-KIT-ND	45.95 85.95 45.95 85.95
Yageo America 0603 5% Thick Film Chip Resistor Assortments, 1/10 Watt — *RoHS Compliant* 50 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (3,600 total pieces) . . . 200 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (14,400 total pieces). . 50 each of values 1.1, 1.3, 1.6, 2.2 ohm etc. to 1.0M ohm (3,600 total pieces) . . . 200 each of values 1.1, 1.3, 1.6, 2.2 ohm etc. to 1.0M ohm (14,400 pieces).	PHG1A-KIT-ND PHG1-KIT-ND PHG2A-KIT-ND PHG2-KIT-ND	49.95 89.95 49.95 89.95
Yageo America 0805 5% Thick Film Chip Resistor Assortments, 1/8 Watt — *RoHS Compliant* 50 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 1.0M ohm (3,650 total pieces) . . . 200 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 1.0M ohm (14,600 total pieces). . 50 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 910K ohm (3,600 total pieces) . . . 200 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 910K ohm (14,400 pieces).	PHA1A-KIT-ND PHA1-KIT-ND PHA2A-KIT-ND PHA2-KIT-ND	59.95 109.95 59.95 109.95
Yageo America 1206 5% Thick Film Chip Resistor Assortments, 1/4 Watt — *RoHS Compliant* 50 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (3,600 total pieces) . . . 200 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (14,400 total pieces). . 50 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 1.0M ohm (3,600 total pieces) . . . 200 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 1.0M ohm (14,400 pieces).	PHE1A-KIT-ND PHE1-KIT-ND PHE2A-KIT-ND PHE2-KIT-ND	59.95 109.95 59.95 109.95

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Susumu 0402 .1% Thin Film Chip Resistor Assortments, 1/16 Watt 40 each of 81 values (3240 pieces) — ***RoHS Compliant***.	SSM1005PB-KIT-ND	366.30
Susumu 0402 .5% Thin Film Chip Resistor Assortments, 1/16 Watt 60 each of 97 values (5820 pieces) — ***RoHS Compliant***.	SSM1005PD-KIT-ND	183.15
Susumu 0603 .05% Thin Film Chip Resistor Assortments, 1/16 Watt 40 each of 91 values (3640 pieces) — ***RoHS Compliant***.	SSM1608NW-KIT-ND	921.30
Susumu 0603 .1% Thin Film Chip Resistor Assortments, 1/10 Watt 40 each of 93 values (3720 pieces) — ***RoHS Compliant***.	SSM1608PB-KIT-ND	183.15
Susumu 0603 .5% Thin Film Chip Resistor Assortments, 1/16 Watt 60 each of 125 values (7500 pieces) — ***RoHS Compliant***	SSM0816PD-KIT-ND	183.15
Susumu 0805 .05% Thin Film Chip Resistor Assortments, 1/10 Watt 40 each of 97 values (3880 pieces) — ***RoHS Compliant***.	SSM2012NW-KIT-ND	921.30
Susumu 0805 .1% Thin Film Chip Resistor Assortments, 1/8 Watt 40 each of 105 values (4200 pieces) — ***RoHS Compliant***	SSM2012PB-KIT-ND	183.15
Susumu 0805 .5% Thin Film Chip Resistor Assortments, 1/10 Watt 60 each of 161 values (9660 pieces) — ***RoHS Compliant***	SSM1220PD-KIT-ND	183.15
Susumu 0805 1, 2 and 5% Thin Film Chip Resistor Assortments, 1/4 Watt 40 each of 31 values (1240 pieces) — ***RoHS Compliant***.	SSM1220-KIT-ND	109.15
Susumu 0815 1% Thin Film Chip Resistor Assortments, 1 Watt 30 each of 20 values (600 pieces) — ***RoHS Compliant***	SSM3720W-KIT-ND	90.65
Susumu 0830 1, 2 and 5% Thin Film Chip Resistor Assortments, 2 Watt 30 each of 16 values (480 pieces) — ***RoHS Compliant***	SSM7520W-KIT-ND	127.65

Digi-Key® Thermistor Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Keystone Thermistors **PTC** - 2 each of 6 popular thermistors (12 total pieces)	KCPTC1-KIT-ND	24.18

Digi-Key® Miscellaneous Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
3M Heatshrink Precut Lengths — *RoHS Compliant* **FP-301 Series -** 50 each of 5 sizes and 100 of 1 size (350 total pieces). . . . . **VFP-876 Series -** 50 each of 5 sizes and 100 of 1 size (350 total pieces)	FP-KIT-ND VFP-KIT-ND	18.95 19.95
3M Colored Heatshrinkable Tubing **FP-301 Series-** 1-5 ft. tubing of each color in 8 series (55 total pieces) — ***RoHS Compliant***.	FPC-KIT-ND§	71.95
Building Fasteners Hardware - 100 each of machine screws, hex nuts and lock washers in each of the following kits: Slotted - (1,600 total pieces). . . . . Slotted - (1,600 total pieces). . . . . Phillips - (1,600 total pieces) . . . . Phillips - (1,600 total pieces) . . . . Nylon - (1,500 total pieces) — ***RoHS Compliant*** . . . . Phillips, Stainless Steel - (1,400 total pieces) — ***RoHS Compliant***. . . . . Phillips, Stainless Steel - (1,500 total pieces) — ***RoHS Compliant***.	1600-KIT-ND 1601-KIT-ND 1602-KIT-ND 1603-KIT-ND 1604-KIT-ND 1607-KIT-ND 1608-KIT-ND	17.95 27.95 17.95 27.78 53.94 39.95 79.95

Description	Digi-Key Part No.	Price Each
Building Fasteners Hardware (Metric) - 100 each of machine screws, hex nuts, lock washers and flat washers in each of the following kits: Metric Phillips, Zinc Plated - (1,400 total pieces) . . . . Metric Phillips, Zinc Plated - (1,500 total pieces)	1605-KIT-ND 1606-KIT-ND	59.95 99.95
CW Industries Switches Various quantities of 14 switches (120 total pieces).	SW-KIT-ND	69.95
Daburn Shrinkable Tubing, Polyolefin: Black 5 feet of 6 popular sizes (30 total feet of tubing) — ***RoHS Compliant***.	STA-KIT-ND	10.95
Diodes SOT-23 SMD Zener Diode Kit 10 each of 18 popular diodes (180 total pieces)	BZX2-KIT-ND	23.79
ECS, Inc. Crystals 3 each of 27 popular crystals (81 total pieces).	XC-KIT-ND	169.00
NEW!* Fairchild General Purpose Diode Kit** 10 of 13 popular values (130 total pieces) — ***RoHS Compliant.	DIODESKITFS-ND	13.00
NEW!* Fairchild LVX Series Kit** 5 of 6 popular values (35 total pieces) — ***RoHS Compliant.	LVKIT-ND	50.00
NEW!* Fairchild FXL Series Kit** 5 of 9 popular values (145 total pieces) — ***RoHS Compliant.	FXLKIT-ND	50.00
Hamlin Magnetic Switches — *RoHS Compliant* Various quantities of 18 switches (22 total pieces) . . . . 1 each of 18 switches (18 total pieces)	HE1-KIT-ND HE2-KIT-ND	69.95 49.95
Johnson Components Plugs and Jacks 10 each of 15 popular plugs and jacks (150 total pieces).	J100-KIT-ND	76.95
Mallory Sonalert SMD Buzzer Kit 2 each of 12 popular values (24 total pieces) — ***RoHS Compliant***	458-KIT-ND	60.00
Micro Commercial Components Schottky Diodes 10 each of 13 popular values (130 total pieces) — ***RoHS Compliant***	SCHOTTKYKIT-MCC-ND	63.95
Micro Commercial Components Small Signal Diodes 10 each of 26 popular values (260 total pieces) — ***RoHS Compliant***	DIODEKIT-MCC-ND	35.95
Micro Commercial Components Zener Diodes 10 each of 15 popular values (150 total pieces) — ***RoHS Compliant***	ZENER SMD KIT-ND	38.95
Micro Commercial Components Transient Voltage Suppressors 10 each of 15 popular values (150 total pieces) — ***RoHS Compliant***	TVSKIT-MCC-ND	44.95
Micro Commercial Components Transistors 10 each of 15 popular values (150 total pieces) — ***RoHS Compliant*** . . . . ***NEW!* Micro Commercial Components ESD Kit**	TRANSKIT-MCC-ND	17.50
10 each of 9 popular values (90 total pieces) — ***RoHS Compliant***.	ESD-MCC-KIT-ND	19.95
NEW!* NKK M Series Miniature Toggle Sample Kit** 1 each of 18 popular switches (18 total pieces) — ***RoHS Compliant	360-2293-ND	35.00
NEW!* NXP Biss Transistor Kit** 25 each of 17 popular values (425 total pieces) — ***RoHS Compliant	NXPBISS1-KIT-ND	39.99
NEW!* NXP Schottky Diode Kit** 25 each of 18 popular values (450 total pieces) — ***RoHS Compliant	NXPMEGA1-KIT-ND	39.99
ST Microelectronics R/R Low Power Operational Amplifiers 5 each of 16 popular values (80 total pieces).	497-8000-KIT-ND	120.00
ST Microelectronics 74V/74LX SMD IC's 10 each of 18 popular values (180 total pieces)	497-8001-KIT-ND	40.95
ST Microelectronics Mosfet Thru Hole 5 each of 9 popular values (45 total pieces)	497-8004-KIT-ND	100.00
ST Microelectronics NPN/PNP Transistor 5 each of 22 popular values (110 total pieces).	497-8005-KIT-ND	75.00
ST Microelectronics Schottky Diodes 5 each of 9 popular values (45 total pieces)	497-8006A-KIT-ND	6.95
ST Microelectronics Schottky Diodes 5 each of 11 popular values (55 total pieces).	497-8006B-KIT-ND	44.95
ST Microelectronics Schottky ESD Protective Diodes 5 each of 15 popular values (75 total pieces) — ***RoHS Compliant***.	497-8009-KIT-ND	64.95
ST Microelectronics Diodes 5 each of 18 popular values (90 total pieces) — ***RoHS Compliant***.	497-8010-KIT-ND	30.95
ST Microelectronics Switching SMD IC's 10 each of 10 popular values (100 total pieces)	497-8007-KIT-ND	93.95

Digi-Key® Inductor Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Susumu 0402 ±0.2NH Thin Film Inductor Assortments 40 each of 28 values (1120 pieces) — ***RoHS Compliant***.	SSMH1005-KIT-ND	72.15
Susumu 0603 ±0.2NH Thin Film Inductor Assortments 40 each of 25 values (1000 pieces) — ***RoHS Compliant***.	SSMT0816-KIT-ND	90.65

Digi-Key® LED Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
ROHM LED 5MM Multi Color 5 each of 13 values (65 pieces) — ***RoHS Compliant***.	511-8001-KIT-ND	17.95
ROHM LED 3MM Multi Color 5 each of 16 values (80 pieces) — ***RoHS Compliant***.	511-8002-KIT-ND	19.95
ROHM LED 0402 Multi Color 5 each of 6 values (30 pieces) — ***RoHS Compliant***	511-8007-KIT-ND	15.95
ROHM LED 0603 Multi Color 5 each of 14 values (70 pieces) — ***RoHS Compliant***.	511-8003-KIT-ND	18.95
ROHM LED 0805 Multi Color 5 each of 12 values (60 pieces) — ***RoHS Compliant***.	511-8004-KIT-ND	17.95
ROHM LED 1208/1210 Multi Color 5 each of 9 values (45 pieces) — ***RoHS Compliant***	511-8006-KIT-ND	19.95

§ Does not come with plastic box

Panasonic® Nickel-Metal Hydride Batteries and Tabbed Versions

Features:

- **Superior Energy Density:** Nickel-metal hydride batteries have approximately double the capacity compared with Panasonic's standard Ni-Cad batteries
- **High Cycle Life:** Like Ni-Cad batteries, nickel-metal hydride batteries can be repeatedly charged and discharged up to approximate 500 cycles (under ideal conditions).

Because a specially designed charger will be necessary, please consult the Panasonic Technical Handbook (P001-ND) regarding the charge system • **Flat trickle charge cannot be used** • **Excellent Discharge Characteristics:** Since the internal resistance of nickel-metal hydride batteries is low, continuous high-rate discharge up to 3C (10C for 4/5SC, SC) is possible in the same way as for Ni-Cad batteries. • **Excellent Reliability:** Self-discharge performance is the same or better than that of nickel-cadmium batteries. In addition, charging batteries after extended storage restores original battery capacity. Battery safety has also been improved and verified through testing under a wide range of conditions of use.

Applications:

• Communication • Office Automation • Audio Visual Equipment • Other High-Tech Products.

Caution for Safety:

Improper usage may cause battery liquid leakage, heat generation or explosion, resulting in equipment failure or injury • Do not disassemble or rework the battery • Do not solder the battery directly • Do not use new batteries together with old batteries, or different type batteries mixed together • Follow the specified charge conditions.

"H" Type:

- Improved low rate charge characteristics at higher temperatures.
- Ideal for back-up applications (with appropriate charge control circuitry).

Notes:

- **Battery Packs made with NIMH Cells include a thermostat from Texas Instrument.**
- **Nickel-metal hydride batteries are not a drop-in replacement for Ni-Cad batteries.**
- **Recycling information available on Digi-Key website.**
- **See following page for Battery Pack information.**

It is the responsibility of each user to ensure that each battery application system is adequately designed safe and compatible with all conditions encountered during use, and in conformance with existing standards and requirements.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

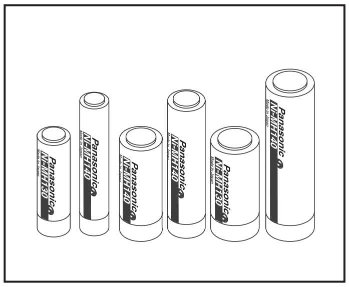

P001-ND NIMH Technical Handbook **$2.95**

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight▲ oz. (gram)	Std. Chg. @ 16 hrs. (mA)	(Control Req.) Quick Charge (mA)	(hrs.)	Digi-Key Part No.	(Regular Version) Pricing 1	10	Carton	Digi-Key Part No.	(Solder Tabbed Version) Pricing 1	10	Carton	Panasonic Part No.
AAA	1.2	700	0.41 x 1.75 (10.5 x 44.5)	0.46 (13)	70	650	1.2	P213-ND†	2.88	25.88	2380.50/1380	P213T-ND	3.18	28.58	2628.90/1380	HHR-70AAAB8
AAA	1.2	700	0.41 x 1.75 (10.5 x 44.5)	0.42 (12)	70	450	1.7	P008-ND	3.33	29.93	2753.10/1380	P008T-ND	3.63	32.63	3001.50/1380	HHR-75AAA
4/5AA	1.2	1150	0.57 x 1.69 (14.5 x 43.0)	0.81 (23)	115	1150	1.2	P013-ND†	3.53	31.73	1692.00/800	P013T-ND	3.83	34.43	1836.00/800	HHR-120AA
AA	1.2	1500	0.57 x 1.97 (14.5 x 50.0)	0.92 (26)	150	1500	1.2	P015-ND†	3.60	32.40	1728.00/800	P015T-ND	3.80	34.20	1824.00/800	HHR-150AA
AA	1.2	1550	0.57 x 1.97 (14.5 x 50.0)	0.95 (27)	155	1500	1.2	P060-ND	4.00	36.00	1920.00/800	P060T-ND	4.30	38.70	2064.00/800	HHR-160AA
AA	1.2	2000	0.57 x 1.99 (14.5 x 50.5)	1.02 (29)	200	1200	2	P220-ND	4.48	40.28	2148.00/800	P220T-ND	4.78	42.98	2292.00/800	HHR-210AA
4/5A	1.2	2000	0.67 x 1.71 (17.0 x 43.5)	1.20 (34)	200	2000	1.2	P010-ND†	5.35	48.15	1733.40/540	P010T-ND	5.65	50.85	1830.60/540	HHR-200A
A	1.2	2100	0.67 x 1.97 (17.0 x 50.0)	1.34 (38)	210	2100	1.2	P017-ND†	6.20	55.80	2678.40/720	P017T-ND	6.50	58.50	2808.00/720	HHR-210A
4/3A	1.2	3700	0.67 x 2.64 (17.0 x 67.0)	1.87 (53)	370	2000	‡	P018-ND†	7.43	66.83	1603.80/360	P018T-ND	7.73	69.53	1668.60/360	HHR-380A
4/3A	1.2	4200	0.72 x 2.64 (18.2 x 67.0)	2.12(60)	420	2000	‡	P214-ND†	9.83	88.43	2358.00/300	P214T-ND	10.13	91.13	2430.00/300	HHR-450A
4/5SC	1.2	2000	0.91 x 1.34 (23.0 x 34.0)	1.48 (42)	200	2000	1.2	P020-ND†	6.88	61.88	1980.00/480	P020T-ND	7.18	64.58	2066.40/480	HHR-20SCPY14
SC	1.2	2450	0.91 x 1.69 (23.0 x 43.0)	1.94 (55)	260	2600	1.2	P641-ND	6.35	57.15	1828.80/480	P641T-ND	6.35	57.15	1828.80/480	HHR-26SCPY01
SC	1.2	3000	0.91 x 1.69 (23.0 x 43.0)	1.94 (55)	300	3000	1.2	P021-ND†	9.20	82.80	2649.60/480	P021T-ND	9.50	85.50	2736.00/480	HHR-30SCPY20
D	1.2	6500	1.30 x 2.39 (33.0 x 60.8)	6.00 (170)	650	6500	1.2	P019-ND†	23.53	211.73	1882.00/100	P019T-ND	23.83	214.43	1906.00/100	HHR-650D
D	1.2	8250	1.30 x 2.40 (33.0 x 61.0)	6.00 (170)	900	4500	2.4	P640-ND	24.23	218.03	1938.00/100	P640T-ND	24.53	220.73	1962.00/100	HHR-900DA01
"H" Type																
AAA	1.2	500	0.41 x 1.75 (10.5 x 44.5)	0.46 (13)	50	250	2.4	P634-ND†	2.98	26.78	2463.30/1380	P634T-ND	3.28	29.48	2711.70/1380	HHR-60AAAH
A	1.2	1900	0.67 x 1.97 (17.0 x 50.0)	1.34 (38)	210	—	—	P635-ND†	6.85	61.65	1479.60/360	P635T-ND	7.15	64.35	1544.40/360	HHR-210AH
A	1.2	3200	0.72 x 2.64 (18.2 x 67.0)	2.12 (60)	330	1650	2.4	P636-ND†	11.33	101.93	4077.00/600	P636T-ND	11.63	104.63	4185.00/600	HHR-330APH
A	1.2	3500	0.72 x 2.64 (18.2 x 67.0)	2.12 (60)	370	1750	2.4	P637-ND†	11.38	102.38	4095.00/600	P637T-ND	11.68	105.08	4203.00/600	HHR-370AH
SC	1.2	2500	0.91 x 1.69 (23.0 x 43.0)	1.94 (55)	250	1250	2.4	P638-ND†	10.08	90.68	2901.60/480	P638T-ND	10.38	93.38	2988.00/480	HHR-250SCH
C	1.2	3100	1.02 x 1.97 (25.8 x 50.0)	2.82 (80)	300	1500	2.4	P639-ND†	9.08	81.68	2776.95/510	P639T-ND	9.38	84.38	2868.75/510	HHR-300CH

† Non-extending positive terminals. ▲ See "Ordering Information" for note on shipping charges on prepaid orders. ‡ Use dT/dt charge termination method.

Panasonic® Nickel Cadmium Batteries

The Panasonic nickel-cadmium battery is a rechargeable sealed nickel-cadmium alkaline cell.

Features:

• Long life • Excellent discharge characteristics • Long shelf life • High-rate charging • Wide temperature range • Reliable, self-resealing vent • Sealed, strong, leakproof construction

Applications:

For Cyclic Use: • Consumer applications • Office equipment • Tools • Photography • Toys and Hobby

For Trickle or Float Charge Use: • Emergency devices • Memory back-up

Special Purpose Batteries:

Rapid Charge "R" Type: The "R" type cell has a specially improved negative plate with increased gas absorption characteristics. It can be subjected to controlled charging at the 1C rate and rapid-charge in 1 to 1.5 hours is possible.

Notes:

- **Recycling information available on Digi-Key website.**
- **See following page for Battery Pack information.**

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

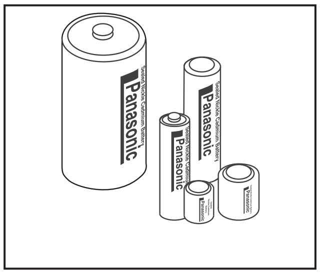

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight▲ oz. (gram)	Std. Chg. @ 16 hrs. (mA)	Quick Charge (mA)	(hrs.)	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.
Regular Version													
Rapid Charge "R" Type													
4/5SC	1.2	1,200	0.89 x 1.34 (22.5 x 34.0)	1.34 (38)	120	1200	1.5	P200-ND†	3.44	30.94	288.75/120	858.00/480	P-120SCJS/A02
Solder Tabbed Version													
Rapid Charge "R" Type													
4/5SC	1.2	1,200	0.89 x 1.34 (22.5 x 34.0)	1.34 (38)	120	1200	1.5	P200T-ND	3.74	33.64	313.95/120	932.88/480	P-120SCJS/A02T

† Non-extending positive terminals. ▲ See "Ordering Information" for note on shipping charges on prepaid orders.

Energizer® Nickel-Metal Hydride Chargers and Rechargeable Batteries

Equipped with intelligent features such as safety timers, temperature monitors and trickle charge technologies, these chargers are the smart way to keep plenty of energy on hand. Energizer is the leader in rechargeable technology, offers a complete line of high capacity batteries and technologically advanced chargers to fit any lifestyle. These batteries are engineered to work with your most advanced, high-drain devices such as digital cameras, PDAs, hand-held games, portable CD players and MP3 players. Since they are renewable and reusable, Energizer Rechargeable batteries work hard for you.

Note: Recycling information available on Digi-Key website.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Fig. 1

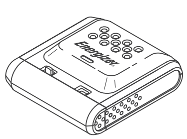

Fig. 2

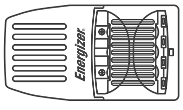

Fig. 3

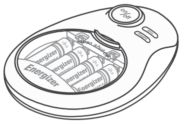

Fig. 4

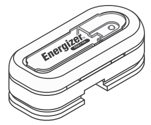

Fig. 5

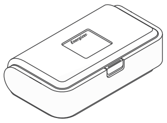

Fig.	Size	Capacity (mAh)	Charge Time	Dimensions Inch (mm)	Digi-Key Part No.	Price Each	Energizer Part No.
				Chargers - RoHS Compliant			
1	AA/AAA(4)	2,500/850	4.5 ~ 8 hours	3.268 x 2.992 x 1.181 (83 x 76 x 30)	N310-ND	14.88	CHDCWOB
2	AA/AAA(4)	2,200/700	20 minutes	1.575 x 5.157 x 3.071 (40 x 131 x 78)	N312-ND†	45.84	CH15MNCP-4
3	AA/AAA(4)	2,500/900	5.7 ~ 9 hours	5.236 x 3.504 x 1.260 (133 x 89 x 32)	N314-ND	31.46	CHFMWB-4
4	AA/AAA(2)	2,500/900	1.5 ~ 5.5 hours	1.299 x 3.976 x 1.575 (33 x 101 x 40)	N315-ND	20.00	CHUSBWB-2
5	AA/AAA/9V/C/D	—	3 ~ 7 hours	2.835 x 7.992 x 4.370 (72 x 203 x 111)	N316-ND	39.98	CHFC

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight▲ oz. (gram)	Digi-Key Part No.	(Regular Version) Pricing 1	10	Carton	Digi-Key Part No.	(Solder Tabbed Version) Pricing 1	10	Carton	Energizer Part No.
						Batteries							
AAA	1.2	850	0.413 x 1.752 (10.50 x 44.50)	0.5 (13)	N704-ND	2.78	24.98	1476.30/1,000	—	—	—	—	NH12VP
AA	1.2	2,500	0.571 x 1.988 (14.50 x 50.50)	1.1 (30)	N703-ND	4.08	36.68	1173.60/480	N703T-ND	4.38	39.38	1260.00/480	NH15VP
C	1.2	2,500	26.2 x 1.969 (26.20 x 50.0)	2.3 (66)	N702-ND‡	15.33	82.76/6	294.24/24	N702T-ND‡	15.63	84.38/6	300.00/24	NH35BP-2
D	1.2	2,500	1.346 x 2.421 (34.20 x 61.50)	2.6 (73)	N701-ND‡	15.33	82.76/6	294.24/24	N701T-ND‡	15.63	84.38/6	300.00/24	NH50BP-2
9V	7.2	150	1.909 x 0.689 x 26.5 (48.50 x 17.50 x 26.50)	1.5 (42)	N705-ND	10.88	97.88	1957.50/225	—	—	—	—	NH22VP

‡ Package of two ▲ See "Ordering Information" for note on shipping charges on prepaid orders. † Includes 4AA 2200mAh NIMH Batteries

Battery Packs

For Memory Backup, Power Tools, Radio Controlled and Other Endless Applications

All battery packs are made using our suppliers' high quality cells. Shown are standard configurations. If you have a special need or a configuration that you do not see, give us a call for further information. Packs are available in nearly all sizes of Nickel-Cadmium, NIMH, Alkaline and Carbon Zinc cylinder batteries.

Note: Recycling information available on Digi-Key website.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

HOW TO ORDER:

Using: ***Panasonic Cells:*** P ☐ ☐ ☐ – ☐ ☐ ☐ ☐ – ND

Energizer Cells: N ☐ ☐ ☐ – ☐ ☐ ☐ ☐ – ND

Sanyo Cells: SY ☐ ☐ ☐ – ☐ ☐ ☐ ☐ – ND

Call for pricing on any standard or custom battery pack

Select Digi-Key Part No. of any Cylinder Type Battery

Select Style of Battery Pack From Chart

Style	Volts†	Cells	Configurations	Diagram
F021	2.4	2	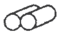	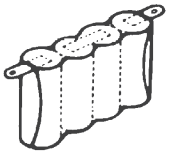
F031	3.6	3	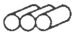	
F041	4.8	4	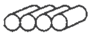	
F051	6.0	5	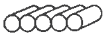	
F061	7.2	6	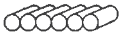	
F071	8.4	7	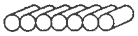	
F081	9.6	8	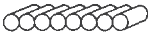	
F091	10.8	9	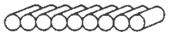	
F101	12.0	10	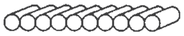	
F022	4.8	4	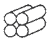	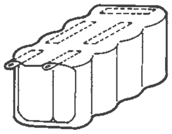
F023	7.2	6	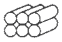	
F024	9.6	8	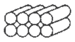	
F025	12.0	10	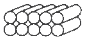	

Style	Volts†	Cells	Configurations	Diagram
L021*	2.4	2	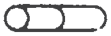	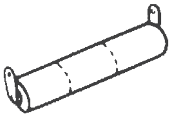 * Styles L021, L031, L041 and L051 are not available in nickel-metal hydride batteries.
L031*	3.6	3	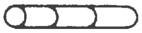	
L041*	4.8	4	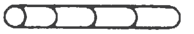	
L051*	6.0	5	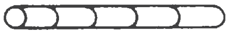	
L022	4.8	4	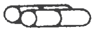	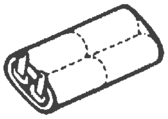
L032	7.2	6	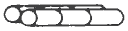	
L042	9.6	8	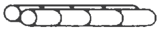	
L052	12.0	10	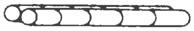	
L023	7.2	6	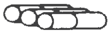	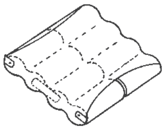
L024	9.6	8	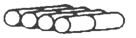	
L025	12.0	10	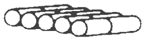	

† Voltage increments of 1.5 volts are used for Alkaline and Carbon Zinc packs.

SANYO Ni-Cd Batteries

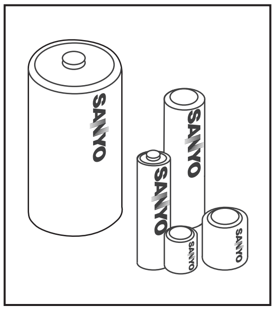

Nickel-Cadmium (Ni-Cd) batteries use nickel oxide in its positive electrode (cathode), a cadmium-compound in its negative electrode (anode), and potassium hydroxide solution in its electrolyte. The Nickel-Cadmium battery is rechargeable, so you can use it over and over.

Features:

- Discharge voltage remains stable even in conditions of high-rate discharge current – for equipment needing a high-rate discharge current, it is far more stable than other battery types
- Wide operating temperature range of -20°C ~ 60°C — operates especially well in low temperatures
- Performance does not deteriorate even after long-term storage – full recovery of original performance levels after recharging
- Designed to withstand overcharge and overdischarge – superior durability
- Sealed configuration with gas release vent – easy maintenance and no leakage
- Produced using an ISO9000 certified quality control system – high quality and reliability

Applications:

- Cellular phones, telecommunications equipment
- Portable audio-visual equipment
- Emergency lights
- Electric tools
- Battery-powered vehicles

Notes: • Recycling information available on Digi-Key website.
• See previous page for Battery Pack information.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	Voltage (V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight▲ oz. (gram)	Std. Charge @ 14 ~ 16 hrs. (mA)	(Control Req.) Quick Charge (mA)	(hrs.)	(Regular Version) Digi-Key Part No.	Pricing 1	10	Carton	(Solder Tabbed Version) Digi-Key Part No.	Pricing 1	10	Carton	Sanyo Part No.
1/3AA	1.2	110	0.55 x 0.66 (14.0 x 16.7)	0.252 (7)	11	33	4 ~ 6	SY106-ND†	1.95	17.55	2028.00/2,000	SY106T-ND	2.25	20.25	2340.00/2,000	N-110AA
2/3AA	1.2	270	0.55 x 1.16 (14.0 x 29.5)	0.49 (14)	27	81	4 ~ 6	SY107-ND†	1.78	15.98	1476.80/1,600	SY107T-ND	2.08	18.68	1726.40/1,600	N-270AA
AA	1.2	700	0.54 x 1.95 (13.8 x 49.5)	0.81 (23)	70	210	4 ~ 6	SY114-ND	1.75	15.75	840.00/1,000	SY114T-ND	2.05	18.45	984.00/1,000	N-700AAC
AA	1.2	700	0.54 x 1.90 (13.8 x 48.2)	0.81 (23)	70	210	4 ~ 6	SY115-ND†	1.75	15.75	840.00/1,000	SY115T-ND	1.78	15.98	852.00/1,000	N-700AACL
AA	1.2	900	0.54 x 1.95 (13.8 x 49.5)	0.81 (23)	90	1350	1	SY116-ND†	2.33	20.93	837.00/600	SY116T-ND	2.63	23.63	1512.00/1,200	KR-900AAEC
AA	1.2	1,100	0.54 x 1.95 (13.8 x 49.5)	0.85 (24)	110	220	7 ~ 8	SY109-ND	2.58	23.18	927.00/600	SY109T-ND	2.88	25.88	1035.00/600	KR-1100AAU
2/3A	1.2	500	0.65 x 1.09 (16.5 x 27.8)	0.67 (19)	50	150	4 ~ 6	SY117-ND†	2.33	20.93	1116.00/1,000	SY117T-ND	2.63	23.63	1260.00/1,000	N-500A
4/5A	1.2	1,500	0.65 x 1.65 (16.5 x 42.0)	1.09 (31)	150	2300	1	SY110-ND†	4.20	37.80	1512.00/600	SY110T-ND	4.50	40.50	1620.00/600	KR-1500AUL
A	1.2	1,700	0.65 x 1.91 (16.5 x 48.5)	1.27 (36)	170	2600	1	SY112-ND†	4.33	38.93	1557.00/600	SY112T-ND	4.63	41.63	1665.00/600	KR-1700AU
A	1.2	1,400	0.65 x 1.91 (16.5 x 48.5)	1.09 (31)	140	2100	1	SY111-ND†	3.85	34.65	1386.00/600	SY111T-ND	4.15	37.35	1494.00/600	KR-1400AE
4/5SC	1.2	1,200	0.87 x 1.30 (22.0 x 33.0)	1.52 (43)	125	375	4 ~ 6	SY118-ND†	4.05	36.45	1215.00/500	SY118T-ND	4.35	39.15	1305.00/500	N-1250SCRL
SC	1.2	1,200	0.87 x 1.65 (22.0 x 42.0)	1.62 (46)	120	—	—	SY126-ND†	4.23	38.03	1014.00/400	SY126T-ND	4.53	40.73	1086.00/400	KR-SCH(1.2)
SC	1.2	1,300	0.87 x 1.65 (22.0 x 42.0)	1.83 (52)	130	390	4 ~ 6	SY120-ND†	4.00	36.00	960.00/400	SY120T-ND	4.30	38.70	1032.00/400	N-1300SCR
SC	1.2	1,300	0.87 x 1.65 (22.0 x 42.0)	1.59 (45)	130	260	7 ~ 8	SY151-ND† ***NEW!***	3.20	28.80	680.96/400	SY151T-ND ***NEW!***	3.50	31.50	744.80/400	KR-1300SC
SC	1.2	1,700	0.87 x 1.30 (22.0 x 33.0)	1.62 (46)	170	2550	1	SY119-ND	5.70	51.30	1710.00/500	SY119T-ND	6.00	54.00	1800.00/500	CP-1700SCR
SC	1.2	1,700	0.87 x 1.65 (22.0 x 42.0)	1.90 (54)	170	2600	1	SY121-ND†	4.50	40.50	1080.00/400	SY121T-ND	4.80	43.20	1152.00/400	N-1700SCR
SC	1.2	1,900	0.87 x 1.65 (22.0 x 42.0)	1.98 (54)	190	2900	1	SY122-ND†	4.73	42.53	1134.00/400	SY122T-ND	5.03	45.23	1206.00/400	N-1900SCR
5/4SC	1.2	2,300	0.87 x 1.93 (22.0 x 49.0)	2.05 (58)	230	3500	1	SY113-ND†	9.23	83.03	1660.50/300	SY113T-ND	9.53	85.73	1714.50/300	KR-2300SCE
C	1.2	2,500	0.99 x 1.93 (25.2 x 49.0)	2.61 (74)	250	—	—	SY128-ND	12.08	108.68	2173.50/300	SY128T-ND	12.38	111.38	2227.50/300	KR-CH(2.5)
C	1.2	3,000	0.99 x 1.93 (25.2 x 49.0)	2.96 (84)	300	4500	1	SY123-ND†	7.43	66.83	1336.50/300	SY123T-ND	7.73	69.53	1390.50/300	N-3000CR
C	1.2	3,600	0.99 x 1.93 (25.2 x 49.0)	3.14 (89)	360	5400	1	SY124-ND†	9.33	83.93	1678.50/300	SY124T-ND	9.63	86.63	1732.50/300	CP-3600CR
D	1.2	4,000	1.27 x 2.30 (32.3 x 58.4)	5.64 (160)	400	6000	1	SY125-ND	13.00	117.00	1365.00/150	SY125T-ND	13.30	119.70	1396.50/150	N-4000DRL
D	1.2	4,000	1.27 x 2.30 (32.3 x 58.4)	5.11 (145)	400	—	—	SY130-ND	10.80	97.20	1134.00/150	SY130T-ND	11.10	99.90	1165.50/150	KR-DHL
D	1.2	4,400	1.27 x 2.36 (32.3 x 60.0)	5.11 (145)	440	—	—	SY108-ND	10.40	93.60	1092.00/150	SY108T-ND	10.70	96.30	1123.50/150	KR-4400D
F	1.2	7,000	1.27 x 3.54 (32.3 x 90.0)	8.11 (230)	700	—	—	SY131-ND	21.45	193.05	750.75/50	SY131T-ND	21.75	195.75	761.25/50	KR-7000F

† Non-extending positive terminals ▲ See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Nickel-Metal Hydride Batteries

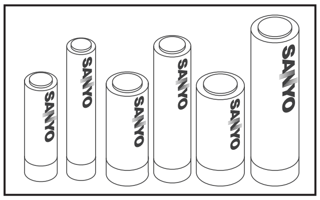

The Twicell Nickel-Metal Hydride battery is a secondary battery which lasts more than twice as long as CADNICA batteries. Twicell uses hydrogen absorbing alloys in its negative electrode (anode) and nickel oxide in its positive electrode (cathode).

Features:

- High volumetric energy density well exceeding that of Lithium-ion batteries
- Double capacity of standard CADNICA batteries • Can be used over and over (more than 500 times with a specific charger) • 1.2 ~ 1.6 hour quick charge with a specific charger • Produced under a ISO9002 certified quality control systems

Applications:

- Notebook computers • Cellular phones, PHS phones, telecommunications equipment, video camera, digital still cameras, PDA, shavers, electric toothbrushes, and various portable equipment

Notes: • Recycling information available on Digi-Key website.
• See previous page for Battery Pack information.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	Voltage (V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight▲ oz. (gram)	Std. Charge @ 16 hrs. (mA)	(Control Req.) Quick Charge (mA)	(hrs.)	(Regular Version) Digi-Key Part No.	Pricing 1	10	Carton	(Solder Tabbed Version) Digi-Key Part No.	Pricing 1	10	Carton	Sanyo Part No.
AAA	1.2	650	0.41 x 1.75 (10.5 x 44.5)	0.46 (13)	73	730	1.1	SY143-ND†	2.73	24.53	2501.55/1,800	SY143T-ND	3.03	27.23	2776.95/1,800	HR-AAAU
AAA	1.2	840	0.41 x 1.75 (10.5 x 44.5)	0.46 (13)	90	900	1.1	SY150-ND	3.08	27.68	1635.90/1,000	SY150T-ND	3.38	30.38	1721.25/1,000	HR-4U-900
5/4AAA	1.2	760	0.41 x 1.97 (10.5 x 50.0)	0.53 (15)	85	850	1.1	SY142-ND†	3.58	32.18	2187.90/1,200	SY142T-ND	3.88	34.88	2371.50/1,200	HR-5/4AAAU
4/5AA	1.2	1,000	0.56 x 1.69 (14.2 x 43.0)	0.81 (23)	110	1100	1.1	SY137-ND†	3.55	31.95	1133.16/600	SY137T-ND	3.85	34.65	1228.92/600	HR-4/5AAUC
AA	1.2	1,500	0.56 x 1.97 (14.2 x 50.0)	0.99 (28)	165	1650	1.1	SY144-ND†	4.28	38.48	1364.58/600	SY144T-ND	4.58	41.18	1460.34/600	HR-AAU
AA	1.2	2,300	0.57 x 1.98 (14.35 x 50.4)	1.06 (30)	250	2500	1.1	SY134-ND	4.58	41.18	1168.27/480	SY134T-ND	4.88	43.88	1244.88/480	HR-3U-2500
A	1.2	1,900	0.67 x 1.97 (17.0 x 50.0)	1.41 (40)	210	2100	1.1	SY145-ND†	7.18	64.58	2290.26/600	SY145T-ND	7.48	67.28	2386.02/600	HR-AUC
4/5A	1.2	1,900	0.67 x 1.69 (17.0 x 43.0)	1.23 (35)	215	2150	1.1	SY139-ND†	5.03	45.23	1603.98/600	SY139T-ND	5.33	47.93	1699.74/600	HR-4/5AU
A	1.2	2,450	0.67 x 1.97 (17.0 x 50.0)	1.41 (40)	270	2700	1.1	SY146-ND†	5.58	50.18	1779.54/600	SY146T-ND	5.88	52.88	1875.30/600	HR-AU
4/3A	1.2	3,600	0.67 x 2.66 (17.0 x 67.5)	1.94 (55)	400	3000	1.4	SY135-ND†	7.55	67.95	1606.64/400	SY135T-ND	7.85	70.65	1670.48/400	HR-4/3AU (4.0AH)
4/3FA	1.2	4,100	0.71 x 2.66 (18.0 x 67.5)	2.19 (62)	450	3000	1.6	SY136-ND†	9.28	83.48	1480.29/300	SY136T-ND	9.58	86.18	1528.17/300	HR-4/3FAU (4.5AH)
4/5SC	1.2	1,900	0.91 x 1.32 (23.0 x 33.5)	1.66 (47)	210	2100	1.1	SY140-ND†	7.65	68.85	2034.90/500	SY140T-ND	7.95	71.55	2114.70/500	HR-4/5SCU
SC	1.2	2,700	0.91 x 1.71 (23.0 x 43.5)	2.15 (61)	300	3000	1.1	SY149-ND†	8.08	72.68	1288.77/300	SY149T-ND	8.38	75.38	1336.65/300	HR-SCU
D	1.2	6,500	1.34 x 2.33 (34.0 x 59.3)	6.17 (175)	730	5000	1.7	SY147-ND†	21.65	194.85	1948.50/150	SY147T-ND	21.95	197.55	1975.50/150	HR-D
D	1.2	8,450	1.34 x 2.33 (34.0 x 59.3)	6.28 (178)	900	5000	2.0	SY148-ND†	28.33	254.93	2549.25/150	SY148T-ND	25.95	233.55	2335.50/150	HR-DU (9.0AH)

† Non-extending positive terminals ▲ See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Panasonic® Lithium Batteries

The main features of lithium batteries are as follows:

- **High Voltage:** Nominal voltage is 3V, which is nearly double that of other batteries which use the aqueous electrolyte system, such as manganese dry batteries, and silver-oxide batteries.
- **High Energy Density:** Overwhelmingly high energy density, as compared with conventional batteries and other lithium batteries. The energy density is 5 to 10 times higher than that of manganese dry batteries.
- **Long Service and Shelf Life:** Since Panasonic lithium batteries are composed of chemically and thermally stable material, self-discharge is extremely small. Deterioration when stored at room temperatures is ca. 0.5% annually – worry about deterioration is unnecessary.
- **Stable Flat Discharge Voltage:** Since conductive carbon is continuously formed during discharge, internal impedance does not increase until the end of discharge, thus stabilizing discharge voltage.
- **Excellent Temperature Characteristics:** Organic solvent ensures a low electrolyte freezing point so that the batteries can be used in a wide temperature range, -40°C ~ 85°C is standard (-40°C ~ 125°C for the High Temperature Coin Type; -40°C ~ 70°C for Camera Type; -30° ~ 60°C for CR2004/P9A).
- **BR Types versus CR Types:** BR, or (CF) n/Li, batteries provide a more stable voltage particularly during the last half of discharge, while CR, or Mn02/Li, batteries provide a higher voltage during the first half. CR batteries also can provide a higher current capability than BR batteries. In storage, BR batteries perform better at high temperatures. These characteristics must be taken into consideration when selecting a battery for a particular application.
- **UL Approval:** Panasonic Lithium batteries are UL recognized. UL File No. MH12210.
- **DOT Exemption:** Panasonic lithium cells and multiple cell batteries are authorized for transportation, in commerce, by U.S. shipping exemption DOT-E7052.
- **Disposal Information:** Panasonic lithium cells are not an EPA listed hazardous waste, but may be considered a "characteristic" hazardous waste. Lithium metal, the anode component of the cells, is considered by the U.S. EPA to be hazardous when disposed because it is reactive with water. However, a cell which contains a small quantity of lithium metal is not necessarily a hazardous waste. Disposal regulations and policies are different in each State and are subject to frequent changes. Contact your local jurisdiction for specific advice on disposal.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

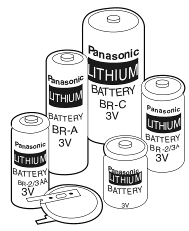

PCB Terminal Type

Fig. 1
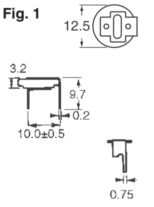

Fig. 2
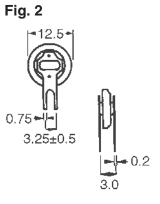

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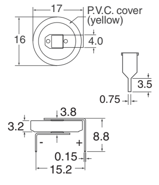

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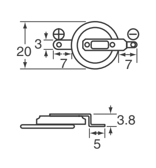

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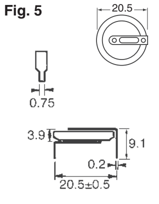

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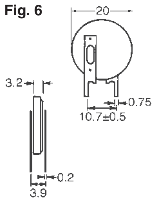

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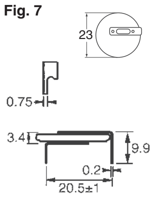

Fig. 8 (with PVC Cover)
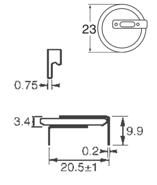

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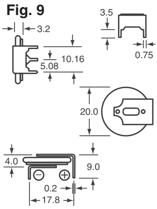

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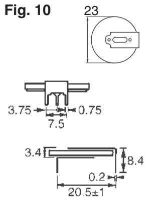

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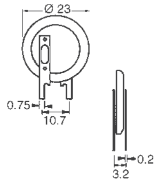

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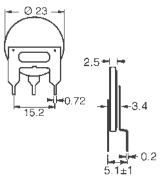

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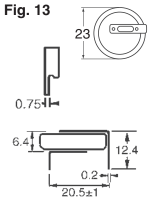

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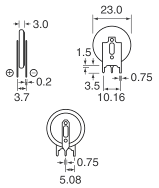

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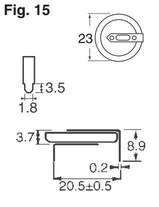

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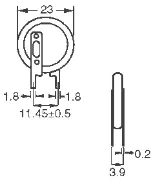

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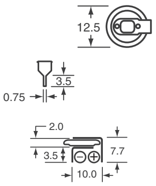

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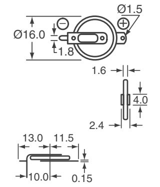

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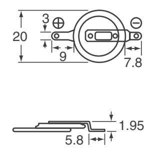

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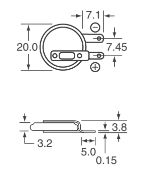

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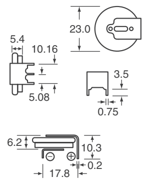

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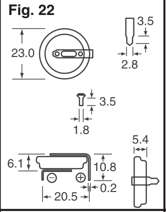

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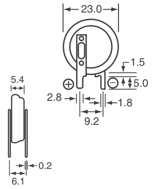

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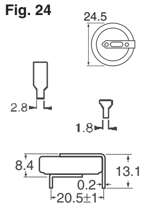

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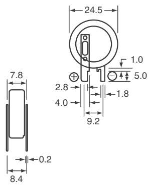

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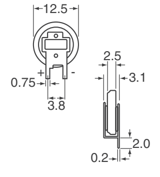

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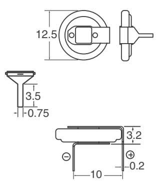

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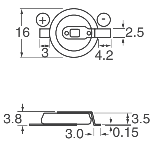

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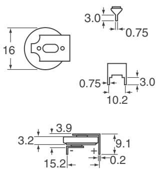

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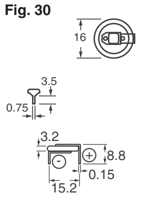

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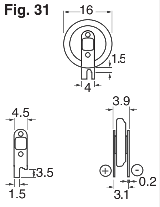

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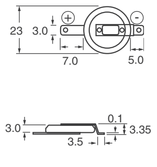

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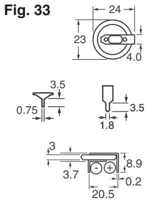

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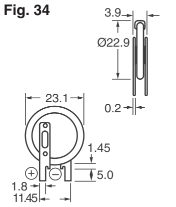

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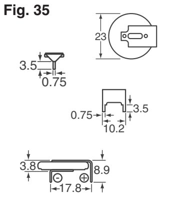

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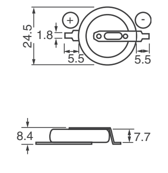

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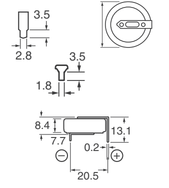

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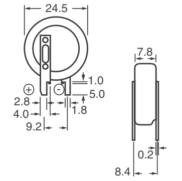

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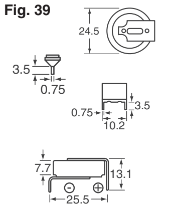

Fig.	Type	(V)	Capacity (mAh)	Weight* (g)	Drain Standard (mA)	Digi-Key Part No.	Pricing				Panasonic Part No.
							1	10	Package	Carton	
						PCB Terminal – Coin Type					
1	Coin	3	48	0.8	0.03	P191-ND	1.70	15.30	163.20/120	1085.28/1,200	BR1225-1HC
2			48	0.8		P192-ND	1.70	15.30	272.00/200	612.00/600	BR1225-1VC
3			120	1.6		P299-ND	1.70	15.30	204.00/150	2170.56/2,400	BR1632-1HF
4			190	2.5		P223-ND	1.73	15.53	220.80/160	1468.32/1,600	BR2032-1F2
5			190	2.5		P196-ND	1.73	15.53	82.80/60	621.00/600	BR2032-1HE
6			190	2.5	0.03	P197-ND	1.73	15.53	165.60/120	621.00/600	BR2032-1VB
7			165	3.2		P142-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1HB
8			165	3.2		P202-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1HC

* See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

(Continued)

Lithium Batteries *(Cont.)*

PCB Terminal Type

Fig.	Type	(V)	Capacity (mAh)	Weight* (g)	Drain Standard (mA)	Digi-Key Part No.	Pricing				Panasonic Part No.
							1	10	Package	Carton	
9	Coin	3	190	2.5	0.03	P241-ND	1.73	15.53	82.80/60	621.00/600	BR2032-1GU
10			165	3.2		P193-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1HG
11			165	3.2		P194-ND	1.73	15.53	138.00/100	917.70/1,000	BR2325-1VC
12			165	3.2		P195-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1VG
13		6	165	6.4	0.03	P143-ND	3.55	31.95	113.60/40	852.00/400	BR2325-2HC
14		3	255	3.2	0.03	P243-ND	2.05	18.45	164.00/100	1090.60/1,000	BR2330-1GVF
15			255	3.2	0.03	P198-ND	2.05	18.45	164.00/100	1090.60/1,000	BR2330-1HE
16			255	3.2	0.03	P199-ND	2.05	18.45	164.00/100	1090.60/1,000	BR2330-1VC
17			35	1.2	0.10	P244-ND	1.25	11.25	120.00/120	798.00/1,200	CR1220-1HF
18			55	1.2	0.10	P273-ND	1.35	12.15	324.00/300	3304.80/4,800	CR1616-1F2
19			90	1.6	0.10	P222-ND	1.08	9.68	258.00/300	1644.75/3,000	CR2016-1F2
20			225	1.2	0.29	P245-ND	1.08	9.68	103.20/120	686.28/1,200	CR2032-1F4
21			560	5.9	0.20	P246-ND	1.90	17.10	152.00/100	1010.80/1,000	CR2354-1GU
22			560	5.9	0.20	P274-ND	1.90	17.10	152.00/100	1010.80/1,000	CR2354-1HF
23			560	5.9	0.20	P248-ND	1.90	17.10	152.00/100	1010.80/1,000	CR2354-1VC
24			1000	10.5	0.20	P126-ND	4.18	37.58	334.00/100	2221.10/1,000	CR2477-1HF
25						P271-ND	4.18	37.58	334.00/100	2221.10/1,000	CR2477-1VC
PCB Terminal - High Temperature Coin Type (-40°C ~ 125°C)											
26	Coin	3	48	0.8	0.03	P290-ND	1.98	17.78	592.50/500	5036.25/5,000	BR1225A/FA
27			48	1.0		P061-ND	1.98	17.78	189.60/120	1260.84/1,200	BR1225A/HB
28			120	1.5		P022-ND	1.93	17.33	369.60/240	4712.40/4,800	BR1632A/FA
29			120	1.5		P291-ND	1.93	17.33	231.00/150	2457.84/2,400	BR1632A/GA
30			120	1.5		P023-ND	1.93	17.33	616.00/400	2457.84/2,400	BR1632A/HA
31			120	1.5	0.03	P024-ND	1.93	17.33	231.00/150	2945.25/3,000	BR1632A/VA
32			255	3.2		P025-ND	2.20	19.80	352.00/200	2340.80/2,000	BR2330A/FA
33			255	3.2		P026-ND	2.20	19.80	352.00/200	2340.80/2,000	BR2330A/HD
34			255	3.2		P027-ND	2.20	19.80	352.00/200	2340.80/2,000	BR2330A/VA
35			255	3.2		P224-ND	2.20	19.80	352.00/200	2340.80/2,000	BR2330A/GAE
36			1000	8.0	0.03	P028-ND	3.68	33.08	176.40/60	1323.00/600	BR2477A/FB
37						P029-ND	3.68	33.08	294.00/100	1955.10/1,000	BR2477A/HB
38						P030-ND	3.68	33.08	294.00/100	1955.10/1,000	BR2477A/VA
39						P228-ND	3.68	33.08	294.00/100	1955.10/1,000	BR2477A/GAE

* See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Computer, Camera, Standard and Standard Coin Types

Type	(V)	Capacity (mAh)	Dimensions (mm) Dia. x Height	Weight* (g)	Drain Standard (mA)	Digi-Key Part No.	Pricing				Panasonic Part No.
							1	10	Package	Carton	
Computer-Type											
Pack	6	1200	19.5 x 33.9 x 36.0	31.0	2.5	P204-ND	13.50	121.50	1555.20/144	2332.80/288	BR-P2PE
Pack with 6.8KΩ resistor		1200	22.0 x 39.0 x 41.0	45.0	—	P203-ND	16.55	148.95	662.00/50	993.00/100	BR-E3C3BCA
Camera-Type											
Cyl. (Bulk pkg.)	3	850	15.6 x 27.0	11.0	20	P157-ND	3.13	28.13	250.00/100	1995.00/1,200	CR-2/BE
Cyl. (Retail pkg.)		850	15.6 x 27.0	11.0	20	P155-ND	6.90	62.10	66.24/12	4404.96/1,200	CR-2PA/1BOEM
Cyl. (Bulk pkg.)		1500	17.0 x 34.5	17.0	20	P151-ND	2.88	25.88	230.00/100	1529.50/1,000	CR-123APA/B
Cyl. (Retail pkg.)		1500	17.0 x 34.5	17.0	20	P154-ND	6.90	62.10	66.24/12	4404.96/1,200	CR-123APA/1B
Pack (Bulk pkg.)		3300	28.4 x 14.4 x 52.0	39.0	200	P063-ND	10.63	95.63	850.00/100	2550.00/400	CR-V3P/B
Pack (Retail pkg.)		3000	28.4 x 14.4 x 52.0	39.0	200	P212-ND	12.34	—	132.00/12	2376.00/288	CR-V3A/1BOEM
Pack (Bulk pkg.)	6	1400	35.0 x 19.5 x 36.0	37.0	20	P099-ND	7.63	68.63	610.00/100	2287.50/500	CR-P2/B
Pack (Retail pkg.)		1400	35.0 x 19.5 x 36.0	37.0	20	P205-ND	12.30	—	132.84/12	2833.92/288	CR-P2PA/1BOEM
Pack (Bulk pkg.)		1400	34.0 x 17.0 x 45.0	38.0	20	P127-ND	6.63	59.63	530.00/100	1987.50/500	2CR-5MPA/B
Pack (Retail pkg.)		1400	34.0x 17.0 x 45.0	38.0	20	P073-ND	12.30	110.70	118.08/12	2125.44/288	2CR-5MPA/1BOEM
Standard Type											
A	3	2200	17.0 x 45.5	13.5	2.5	P362-ND	11.30	101.70	180.80/20	3390.00/500	BR-AG
A with Tabs		2200	17.0 x 45.5	13.5	2.5	P362T-ND	11.60	104.40	185.60/20	3480.00/500	BR-AGT
A		1800	17.0 x 45.5	18.0	2.5	P267-ND	9.55	85.95	764.00/100	5080.60/1,000	BR-A
A with Tabs		1800	17.0 x 45.5	18.0	2.5	P267T-ND	9.85	88.65	788.00/100	5240.20/1,000	BR-AT
1/2 AA with 2 PCB Pins		1000	14.5 x 25.5	8.0	2.5	P631-ND	5.00	45.00	875.00/250	2660.00/1,000	BR-1/2AAE5PE
1/2 AA with 3 PCB Pins		1000	14.5 x 25.5	8.0	2.5	P630-ND	5.00	45.00	400.00/100	2660.00/1,000	BR-1/2AAE2PE
2/3 A		1450	17.0 x 33.5	13.5	2.5	P361-ND	5.35	—	96.30/20	2568.00/800	BR-2/3AG
2/3 A with Tabs		1450	17.0 x 33.5	13.5	2.5	P361T-ND	5.65	50.85	1808.00/400	4809.28/1,600	BR-2/3AGT
2/3 A		1200	17.0 x 33.5	13.5	2.5	P133-ND	4.70	42.30	75.20/20	2256.00/800	BR-2/3A
2/3 A with Tabs		1200	17.0 x 33.5	13.5	2.5	P201-ND	5.63	50.63	450.00/100	2992.50/1,000	BR-2/3AT-2SP
2/3 A with 2 PCB Pins		1200	17.0 x 33.5	13.5	2.5	P226-ND	5.63	50.63	450.00/100	2992.50/1,000	BR-2/3AE5SP
2/3 A with 3 PCB Pins		1200	17.0 x 33.5	13.5	2.5	P270-ND	5.63	50.63	450.00/100	2992.50/1,000	BR-2/3AE2SP
Standard Coin Type											
Coin	3	35	12.5 x 2.0	0.7	0.03	P342-ND	1.30	11.70	208.00/200	2652.00/4,000	BR1220
		48	12.5 x 2.5	0.8	0.03	P183-ND	1.23	11.03	392.00/400	2499.00/4,000	BR1225
		190	20.0 x 3.2	2.5	0.03	P186-ND	1.15	10.35	184.00/200	1223.60/2,000	BR2032
		165	23.0 x 2.5	3.2	0.03	P135-ND	1.43	12.54	228.00/200	1516.20/2,000	BR2325
		255	23.0 x 3.0	3.2	0.03	P187-ND	1.83	16.43	292.00/200	1941.80/2,000	BR2330
		500	30.0 x 3.2	5.5	0.03	P341-ND	2.75	24.75	440.00/200	2926.00/2,000	BR3032
		30	10.0 x 2.5	0.7	0.1	P031-ND	1.08	9.68	344.00/400	2193.00/4,000	CR1025
		25	12.5 x 1.6	0.7	0.1	P032-ND	1.08	9.68	344.00/400	2193.00/4,000	CR1216
		35	12.5 x 2.0	1.2	0.1	P033-ND	.95	8.55	304.00/400	1938.00/4,000	CR1220
		40	16.0 x1.2	0.8	0.1	P041-ND	2.70	24.30	432.00/200	1296.00/800	CR1612
		55	16.0 x 1.6	1.2	0.1	P034-ND	1.00	9.00	160.00/200	1064.00/2,000	CR1616
		75	16.0 x 2.0	1.3	0.1	P035-ND	.93	8.33	296.00/400	1887.00/4,000	CR1620
		125	16.0 x 3.2	1.8	0.1	P036-ND	1.08	9.68	344.00/400	2193.00/4,000	CR1632
		55	20.0 x 1.2	1.4	0.1	P037-ND	1.20	10.80	384.00/400	2448.00/4,000	CR2012
		90	20.0 x 1.6	1.7	0.1	P138-ND	.30	2.70	48.00/200	191.52/1,200	CR2016
		165	20.0 x 2.5	2.5	0.2	P188-ND	.30	2.70	48.00/200	612.00/4,000	CR2025
		225	20.0 x 3.2	3.1	0.2	P189-ND	.28	2.48	44.00/200	561.00/4,000	CR2032
		265	23.0 x 3.0	4.0	0.2	P111-ND	1.43	12.83	228.00/200	1516.20/2,000	CR2330
		560	23.0 x 5.4	5.9	0.2	P117-ND	1.63	14.63	130.00/100	864.50/1,000	CR2354
		100	24.5 x 1.2	2.0	0.2	P042-ND	3.10	27.90	496.00/200	1488.00/800	CR2412
		620	24.5 x 5.0	6.3	0.2	P340-ND	1.13	10.13	90.00/100	675.00/1,000	CR2450
		1000	24.5 x 7.7	10.5	0.2	P120-ND	2.85	25.65	228.00/100	1516.20/1,000	CR2477
		500	30.0 x 3.2	7.1	0.2	P121-ND	2.45	22.05	392.00/200	2606.80/2,000	CR3032
Pin Type											
Pin	3	25	4.2 x 25.9	0.55	0.5	P140-ND	3.25	29.25	780.00/300	4972.50/3,000	BR425
		50	4.2 x 35.9	0.85	1.0	P139-ND	3.28	29.48	786.00/300	5010.75/3,000	BR435

* See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Panasonic Manganese Lithium Rechargeable Batteries (ML Series)

Features:

- **Charging at voltage levels even under 3V**. In order to support the current trend in ICs toward lower voltages, these batteries can be charged at a 3 ±0.2 voltage level, and this makes it easier to set the charging circuits for the circuits which employ 3V ICs.
- **Large capacity for hour-after-hour back-up.**
- **Excellent withstand voltage characteristics.** These batteries can withstand the application of a continuous 3.2V voltage at a high temperature of 60°C (140°F).

Applications:

- Power source for backing up memory data in mobile telephones, personal handyphone systems, memory cards, pagers, data terminals and office automation equipment.

Fig. 1

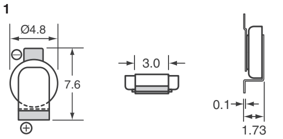

Fig. 2

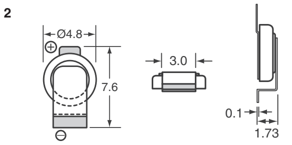

Fig. 3

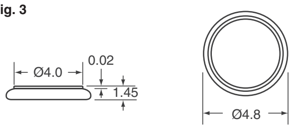

Fig. 4

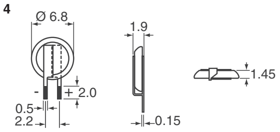

Fig. 5

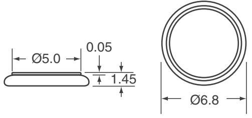

Fig. 6

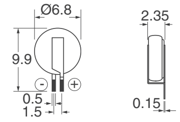

Fig. 7

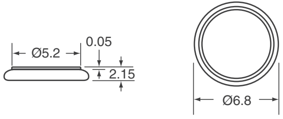

Fig. 8

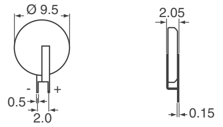

Fig. 9

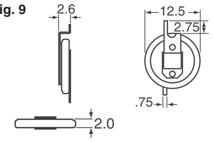

Fig. 10

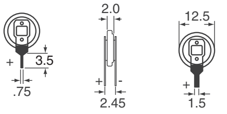

Fig. 11

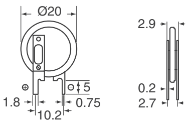

Fig. 12

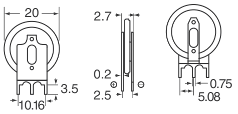

Fig. 13

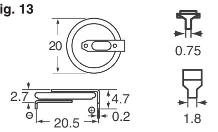

Fig.	Type	(V)	Capacity (mAh)	Dimensions (mm) Dia.	Height	Weight (g)	Drain Standard (mA)	Digi-Key Part No.	Pricing 1	10	Package	Carton	Panasonic Part No.
1	Coin	3	1.0	4.8	1.4	0.10	0.005	P003CT-ND◊	2.55	21.25	3570.00/3,000	15618.75/15,000	ML414RM/F9A
2			1.0	4.8	1.4	0.10	0.005	P004CT-ND◊	2.55	21.25	3570.00/3,000	15618.75/15,000	ML414RH/F9C
3			1.2	4.8	1.4	0.09	0.005	P005-ND	1.65	14.85	1755.60/2,000	16500.00/20,000	ML414S/ZT
4			3.4	6.8	1.45	0.17	0.010	P297-ND	2.03	18.23	810.00/500	5163.75/5,000	ML614S/F9F
5			3.4	6.8	1.4	0.16	0.010	P006-ND	1.78	15.98	1888.60/2,000	17750.00/20,000	ML614S/ZT
6	Coin	3	5.0	6.8	2.05	0.30	0.010	P044-ND	2.03	18.23	486.00/400	4131.00/4,000	ML621S/F9D
7			5.0	6.8	2.1	0.23	0.010	P007-ND	1.78	15.98	1888.60/2,000	17750.00/20,000	ML621S/ZT
8			11.0	9.5	2.05	0.50	0.030	P296-ND	2.25	20.25	720.00/400	4590.00/4,000	ML920S/F9D
9			17.0	12.5	2.0	0.80	0.030	P295-ND	2.38	21.38	475.00/250	6056.25/5,000	ML1220/F1A
10			17.0	12.5	2.0	0.80	0.030	P294-ND	2.38	21.38	475.00/250	6056.25/5,000	ML1220/V1A
11	Coin	3	45.0	20	2.0	2.20	0.100	P045-ND	2.68	24.08	428.00/200	5457.00/4,000	ML2020/V1A
12			45.0	20	2.0	2.20	0.100	P046-ND	2.68	24.08	428.00/200	5457.00/4,000	ML2020/G1A
13			45.0	20	2.0	2.20	0.100	P047-ND	2.68	—	128.40/60	1707.72/1,200	ML2020/H1C

◊ For Tape and Reel part number change CT-ND to TR-ND (Not offered as Package or Carton; Tape and Reel only)

Niobium Titanium Lithium Rechargeable Battery

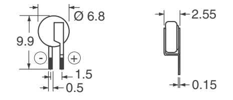

Features: Designed for very low voltage ICs. Nominal voltage is 2.0V. These can be charged and discharged at temperatures as high as 60°C (140°F). Charging voltage is 2.5 volts.

Applications: Power source for backing up memory data in cellular phones, PDAs (personal digital assistants), portable communication devices, and other handheld applications.

Type	Voltage (V)	Capacity (mAh)	Dimensions (mm) Dia.	Height	Weight (g)	Drain Std. (mA)	Digi-Key Part No.	Price Each 1	10	400	Panasonic Part No.
Coin	2.0	4.0	6.8	2.55	0.25	0.01	P009-ND	2.13	1.92	1.70	NBL621/F9D

Vanadium Pentoxide Lithium Rechargeable Batteries

Features:

- One high-voltage battery to serve your back up needs. This single, compactly designed, cost-effective 3V battery does the work of three 1.2V Ni-Cd or two capacitors.
- Months of continuous use as a backup. The VL3032 has a nominal electrical capacity of 100mAh which translates into 10,000 hours with a microprocessor load of 10 µA.

Applications:

- **Memory Backup:** Facsimiles, ECRs, telephones, typewriters, sequencers, VTRs, video cameras, personal computers, memory cards, tuners.

Fig. 1

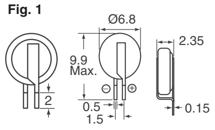

Fig. 2

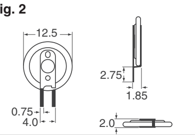

Fig. 3

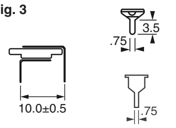

Fig. 4

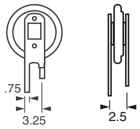

Fig. 5

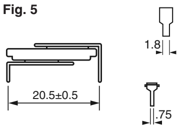

Fig. 6

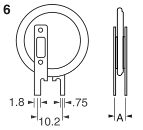

Fig. 7

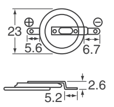

Fig. 8

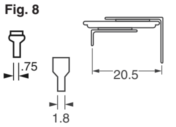

Fig. 9

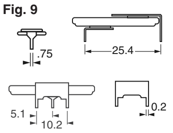

Fig. 10

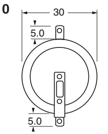

Fig. 11

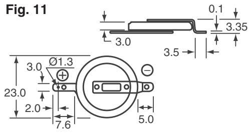

Fig.	Type	(V)	Capacity (mAh)	Dimensions (mm) Dia.	Height	A	Weight (g)	Drain Standard (mA)	Charge Current 3.4 ± 0.15V	Digi-Key Part No.	Pricing 1	10	Package	Carton	Panasonic Part No.
1	Coin	3	1.5	6.8	2.05	—	0.3	0.01	<0.2 mA	P048-ND	4.43	39.83	1416.00/400	9027.00/4,000	VL621-F9D
2			5	12.5	2.0	—	0.7	0.03	<0.5 mA	P219-ND	3.75	33.75	750.00/250	9562.50/5,000	VL1216-1F5U
3			7	12.5	2.0	—	0.8	0.03	<0.5 mA	P079-ND	4.45	40.05	427.20/120	2840.88/1,200	VL1220-1HF
4			7	12.5	2.0	—	0.8	0.03	<0.5 mA	P080-ND	4.45	40.05	890.00/250	5918.50/2,500	VL1220-1VC
5			20	20.0	2.0	—	2.2	0.07	<1.5 mA	P081-ND	4.75	42.75	456.00/120	1710.00/600	VL2020-1HF
6	Coin	3	20	20.0	2.0	2.7	2.2	0.07	<1.5 mA	P082-ND	4.75	42.75	456.00/120	3032.40/1200	VL2020-1VC
7			30	23.0	2.0	—	2.8	0.10	<2.0 mA	P221-ND	5.85	52.65	561.60/120	3734.64/1,200	VL2320-1F2
8			30	23.0	2.0	—	2.8	0.10	<2.0 mA	P083-ND	5.85	52.65	280.80/60	2106.00/600	VL2320-1HF
6			30	23.0	2.0	2.7	2.8	0.10	<2.0 mA	P084-ND	5.85	52.65	468.00/100	3112.20/1,000	VL2320-1VC
8			50	23.0	3.0	—	3.7	0.10	<2.0 mA	P085-ND	7.38	66.38	354.00/60	2655.00/600	VL2330-1HF
6	Coin	3	50	23.0	3.0	3.7	3.7	0.10	<2.0 mA	P086-ND	7.38	66.38	590.00/100	2655.00/600	VL2330-1VC
9			100	30.0	3.2	—	6.3	0.20	<4.0 mA	P087-ND	9.00	81.00	720.00/100	4788.00/1,000	VL3032-1GUF
10			100	30.0	3.2	—	6.3	0.20	<4.0 mA	P088-ND	9.00	81.00	1440.00/200	9576.00/2,000	VL3032-1F2
11			50	23	3.0	—	3.5	0.10	<2.0 mA	P002-ND	7.38	66.38	590.00/100	3923.50/1,000	VL2330-1F3

Due to possible restrictions, a change in shipping method may be required.

L

SANYO Lithium Batteries

Lithium batteries use lithium metal or a lithium aluminum alloy in its negative electrode (anode) and manganese dioxide in its positive electrode (cathode). **Features: CR Series:** • High operating voltage of 3V and high energy density • Wide operating temperature range of -40°C ~ 85°C, depending on type • Low self-discharge rate of 0.5% per year at room temperature • High capacity cylindrical type • SO9002 certified **ML Series:** • High operating voltage of 2.5V • Wide operating temperature range of -20°C ~ 60°C • Low self-discharge rate of 2% per year at room temperature • Superior charge and discharge cycle • Able to charge at 2.8V **Applications:** • Cameras • Electronic meters (water, gas, electricity) • Electronic car keys **Memory Backup Power:** • RTC and SRAM for cellular phones • SRAM and DRAM for computers • SRAM and DRAM for facsimile machines • SRAM and DRAM for communications equipment and office equipment

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Fig. 1

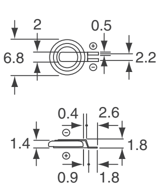

Fig. 2

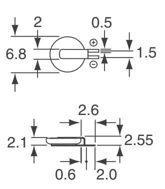

Fig. 3

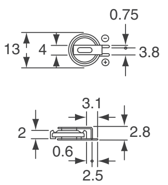

Fig. 4 Dim. in mm

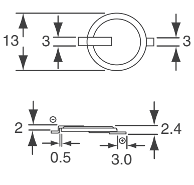

Fig.	Type	(V)	Capacity (mAh)	Dimensions Inch (mm) Diameter x Height	Weight▲ oz. (gram)	Standard Discharge Current (mA)	Digi-Key Part No.	Pricing 1	10	Carton	Sanyo Part No.
					Coin						
—	Coin	3	25	0.49 x 0.08 (12.5 x 2.0)	0.03 (0.8)	0.1	SY033-ND	.60	5.40	1224.00/4,000	CR1220
		3	80	0.79 x 0.06 (20.0 x 1.6)	0.06 (1.7)	0.3	SY138-ND	.35	3.15	714.00/4,000	CR2016
		3	150	0.79 x 0.10 (20.0 x 2.5)	0.09 (2.5)	0.3	SY188-ND	.35	3.15	714.00/4,000	CR2025
		3	220	0.79 x 0.13 (20.0 x 3.2)	0.11 (3.0)	0.3	SY189-ND	.33	2.93	331.50/2,000	CR2032
		3	280	0.96 x 0.12 (24.5 x 3.0)	0.14 (4.0)	0.3	SY603-ND	1.13	10.13	1147.50/2,000	CR2430
		3	610	0.96 x 0.20 (24.5 x 5.0)	0.24 (6.9)	0.2	SY340-ND	1.13	10.13	1147.50/2,000	CR2450
					Coin – Rechargeable						
1	Coin	3	3.4	0.27 x 0.06 (6.8 x 1.4)	0.006 (0.16)	0.015	SY102-ND	2.13	19.13	4335.00/4,000	ML614-TZ14
2		3	5.5	0.27 x 0.08 (6.8 X 2.1)	0.008 (0.22)	0.015	SY103-ND	2.13	19.13	4335.00/4,000	ML621-TZ1
3		3	15	0.49 x 0.08 (12.5 x 2.0)	0.03 (0.8)	0.1	SY104-ND	3.60	32.40	1512.00/700	ML1220-TJ1
4		3	15	0.49 x 0.08 (12.5 x 2.0)	0.03 (0.8)	0.1	SY105-ND	3.60	32.40	1512.00/700	ML1220-TT2
					Camera						
—	Cylindrical	3	160	0.46 x 0.41 (11.6 x 10.8)	0.17 (3.3)	2	SY100-ND	2.93	26.33	2983.50/2,000	CR-1-3N
	Cylindrical	3	850	0.61 x 1.06 (15.6 x 27.0)	0.39 (11)	10	SY155-ND	3.70	33.30	1968.40/1,000	CR2
	Cylindrical	3	1,400	0.67 x 1.36 (17.0 x 34.5)	0.60 (17)	10	SY154-ND	3.48	31.28	1251.00/600	CR123A
	Pack	3	3,300	1.14 x 0.57 x 2.05 (29.0 x 14.5 x 52.0)	1.34 (38)	20	SY212-ND	11.85	106.65	1896.00/200	CR-V3
	Cylindrical	6	160	0.51 x 0.99 (13.0 x 25.2)	0.32 (9.1)	2	SY101-ND	8.60	77.40	4575.20/1,000	2CR-1-3N
	Pack	6	1,400	1.37 x 0.77 x 1.41 (34.8 x 19.5 x 35.8)	1.31 (37)	10	SY205-ND	8.63	77.63	1380.00/200	CR-P2
	Pack	6	1,400	1.34 x 0.67 x 1.77 (34.0 x 17.0 x 45.0)	1.41 (40)	10	SY073-ND	8.70	78.30	1392.00/200	2CR5

▲ See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Energizer® Lithium Batteries

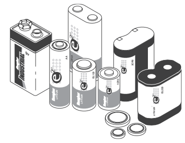

Features: • Lithium batteries substantially outlast alkaline batteries and supply energy at a constant voltage over a wide range of discharge conditions • Lithium batteries have an estimated shelf life of up to 10 years • The L91 AA is the world's longest lasting AA battery in high-drain applications, based on industry standard testing • 9V type for telemetry and other applications • Energizer e2® Photo Lithium batteries provide the ideal power source for today's photographic devices, with advanced lithium technology for exceptional power in digital devices • Coin types for keyless entry and other electronic applications

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Type	(V)	Average Capacity (mAh)	Cut-Off Voltage (V)	Rated Drain/Load	Dimensions (mm) Diameter / Height	Weight (g)	Digi-Key Part No.	Pricing 1	Pkg.	Carton	Energizer Part No.
AAA	1.5	1,200	0.8	50mA	10.5 / 44.5	7.6	N600-ND	3.70	33.30/10	4519.45/2,296	L92VP
AA	1.5	3,000	0.8	50mA	14.5 / 50.5	14.5	N602-ND	3.70	33.30/10	2440.82/1,240	L91VP
Camera	3	1,500	2.0	100Ω	17 / 34.5	16.8	N151-ND	3.30	29.70/10	2106.72/1,200	EL123APVP
Camera	3	800	2.0	100Ω	15.6 / 27	11.0	N157-ND	4.50	48.60/12	86.40/24	EL1CR2BP
Camera Pack	6	1,500	3.5	200Ω	34 x 17 x 45	39.5	N073-ND	12.30	66.42/6	236.16/24	EL2CR5BP
Camera Pack	6	1,400	4.0	200Ω	35 x 19.5 x 36	37.0	N205-ND	12.30	66.42/6	236.16/24	EL223APBP
Camera Pack (x2)	3	2,900	2.0	200mA	28.2 x 14 x 51.6	32	N212-ND†	23.08	124.61/6	443.04/24	ELCRV3BP2
Coin, 10MM	3	30	2.0	45kΩ	10 / 2.5	0.7	N031-ND	1.05	11.34/12	60.48/72	ECR1025BP
Coin, 12.5MM	3	29	2.0	45kΩ	12.5 / 1.6	0.7	N032-ND	1.08	11.61/12	61.92/72	ECR1216BP
Coin, 12.5MM	3	40	2.0	45kΩ	12.5 / 2	0.76	N033-ND	.90	8.10/10	718.20/1,500	CR1220VP
Coin, 16MM	3	55	2.0	30kΩ	16 / 1.6	1.2	N034-ND	1.00	9.00/10	532.00/1,000	CR1616VP
Coin, 16MM	3	79	2.0	30kΩ	16 / 2	1.4	N035-ND	.93	8.33/10	1887.00/4,000	CR1620VP
Coin, 16MM	3	130	2.0	15kΩ	16 / 3.2	1.8	N036-ND	1.13	10.13/10	1197.00/2,000	CR1632VP
Coin, 20MM	3	58	2.0	30kΩ	20 / 1.2	1.3	N037-ND	1.10	9.90/10	2244.00/4,000	CR2012VP
Coin, 20MM	3	80	2.0	30kΩ	20 / 1.6	1.9	N138-ND	.35	3.15/10	186.20/1,000	CR2016VP
Coin, 20MM	3	170	2.0	15kΩ	20 / 2.5	2.8	N188-ND	.40	3.60/10	212.80/1,000	CR2025VP
Coin, 20MM	3	225	2.0	10kΩ	20 / 3.2	3.3	N189-ND	.35	3.15/10	186.20/1,000	CR2032VP
Coin, 24.5MM	3	290	2.0	10kΩ	24.5 / 3	4.6	N603-ND	1.35	12.15/10	718.20/1,000	CR2430VP
Coin, 24.5MM	3	575	2.0	5.1kΩ	24.5 / 5	6.9	N340-ND	1.38	12.38/10	731.50/1,000	CR2450VP

† One piece = package of two battery packs. Due to possible restrictions, a change in shipping method may be required.

SII Seiko Instruments Inc. Manganese Silicon Lithium Rechargeable Batteries

The MS (Manganese Silicon) battery uses silicon oxide as anode and lithium manganese to composite oxide as cathode. As a result, it offers a longer cycle life and highly stable over-discharge characteristics. **Features**: • Large discharge capacity • Long cycle life • Excellent over-discharge characteristics **Operating Temperature**: • -20°C ~ 60°C **Applications**: • Back up power supply for memory or clock in various electronic equipment such as cellular phones, cordless phones, PHS, pagers, memory-cards, FAX machines, personal computers, PDA, video cameras, digital cameras, tuners and handy terminals • Combined use with solar cells • Main power source for small and slim portable equipment

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Fig. 1

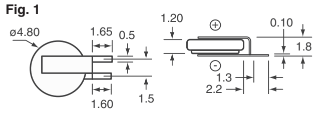

Fig. 2

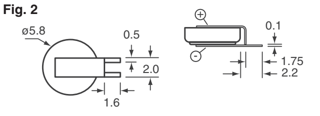

Fig. 3 Dim. in mm

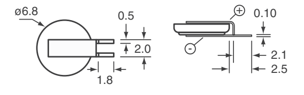

Fig. 4

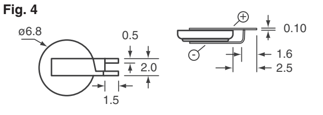

Fig. 5

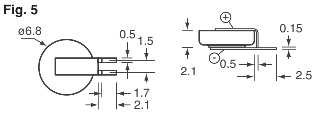

Fig. 6

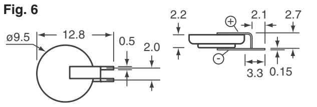

Fig.	Type	Nominal Voltage (V)	Nominal Capacity (mAh)	Internal Impedance (Ω)	Standard Charge/Discharge Current (mA)	Maximum Discharge Current (continuous) (mA)	Cycle Life 100% D.O.D	Cycle Life 20% D.O.D	Standard Charge Voltage (V)	Weight (g)	Digi-Key Part No.	Pricing 1	10	Pkg.	Seiko Instruments Part No.
1	MS412F	3.0	1.0	100	0.010	0.10	200	1000	3.1	0.07	728-1043-ND	1.45	13.05	232.00/200	MS412F-FL26E
2	MS518S		3.4	60	0.010	0.15	100	1000		0.13	728-1044-ND	1.60	14.40	128.00/100	MS518S-FL35E
3	MS614S		3.4	80	0.025	0.25	200	1000		0.17	728-1045-ND	1.55	13.95	124.00/100	MS614S-FL28E
4	MS614S		3.4	80	0.025	0.25	200	1000		0.17	728-1046-ND	1.55	13.95	124.00/100	MS614S-FL29E
5	MS621F		5.5	80	0.025	0.25	200	1000		0.23	728-1047-ND	1.55	13.95	124.00/100	MS621F-FL11E
6	MS920S		11.0	35	0.050	0.80	100	1000		0.47	728-1048-ND	1.80	16.20	144.00/100	MS920S-FL27E

SII Seiko Instruments Inc.

Lithium Rechargeable Batteries

The HB Series features high capacity and long cycle life with a wide charging voltage range, which is most suitable for backup use of real time clock and SRAM etc. **Features**: • Pb-free reflowable • Superior heat resistance (260°C peak) allows reflow soldering by Pb-free solder • Wide range of charging voltage • High capacity • Long cycle life • Excellent over-discharge characteristics **Operating Temperature**: • -20°C ~ 60°C **Applications**: • Power supply backup use for cellular phones, wireless phones, digital still cameras, PHS, PDA and MD players

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Dim. in mm

Fig. 1

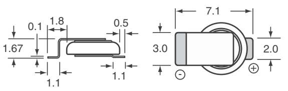

Fig. 2

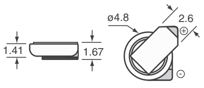

Fig. 3

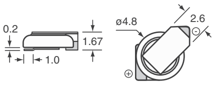

Fig.	Type	Nominal Voltage	Charge Voltage	Nominal Capacity (mAh) (Voltage Range)	Internal Impedance	Standard Charge/ Discharge Current	Cycle Life 10% D.O.D	Cycle Life 100% D.O.D	Weight	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing	Seiko Instruments Part No.
1	HB414	3.0V	2.5V ~ 3.5V	0.3 (3.0 ~ 1.2)	280Ω	0.005mA	1000	100	0.07g	728-1040-1-ND	2.04	1.70	1.36	728-1040-2-ND	3427.20/3,600	HB414-II06E
2				0.2 (2.5 ~ 1.2)						728-1041-1-ND	1.92	1.60	1.28	728-1041-2-ND	3584.00/4,000	HB414-IV01E
3				0.14 (3.0 ~ 2.0)						728-1042-1-ND	2.04	1.70	1.36	728-1042-2-ND	3427.20/3,600	HB414-IV02E

TADIRAN Lithium Batteries

Lithium Batteries

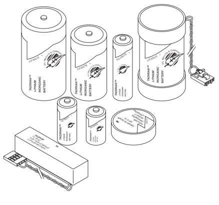

Lithium Thionyl Chloride (Li/SOCl$_2$) Cell: Non-Rechargeable
Tadiran Lithium Thionyl Chloride cells offer enduring quality. They are a superior power source, combining the highest energy density and voltage, longest service life, lowest self-discharge, plus the widest temperature range of any battery commercially available. These cells are ideally suited to provide long lasting power solutions for critical applications, including high tech electronics, military, consumer appliances, even state-of-the-art wireless communications. Tadiran batteries last by far longer than conventional cells, making them ideal for remote, portable, or seldom used equipment. **TL-51XX MBU Series:** • Very low self discharge rate • Suited for long-term operation at low current levels with long stands • Intermittent discharge with medium current level, provided that the average current exceeds the active current level **TL-2XXX XTRA™ Series:** • Excellent shelf life (10 years) • Very low self-discharge • Major improvement of voltage delay at the start of discharge at medium current levels (TMV) • Intermittent discharge at medium current levels **TL-59XX XTRA™ High Capacity Series:** • High capacity batteries for long term applications at low currents • For use in wireless sensors, utility meters, RFID tags, toll tags for toll road pricing, etc. **TLM-15XXMP and TLM-15XXHP Series:** • These two families, High Power and Medium Power, are specifically designed for applications requiring high power, long life and extended storage. **TLH-XXXX Extended Temperature Series:** • For Operation at Temperatures up to 125°C **Applications:** The following list represents actual applications where Tadiran Lithium cells and batteries are already being used as a main or backup source of energy: • Utility meters and A.M.R. equipment • PC computers and data loggers • CMOS memory and RTC backup • Toll tags and RFID transponders • Programmable logic controllers • Wireless alarm sensors • Sea buoys and remote monitoring systems • Military and Aerospace systems • Automatic External Defibrillators • Communications Systems • Telematics **UL Approval:** Tadiran Lithium Thionyl Chloride cells and batteries are UL recognized. UL File No. MH12193

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Dim. in mm

Fig. 1 — Standard

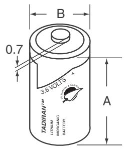

Fig. 2 — Axial Pins

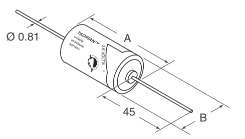

Fig. 3 — Solder Tabs

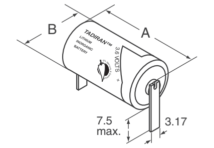

Fig. 4

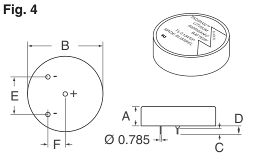

Fig. 5

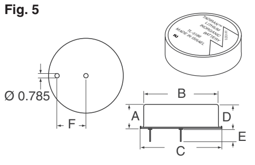

Fig. 6

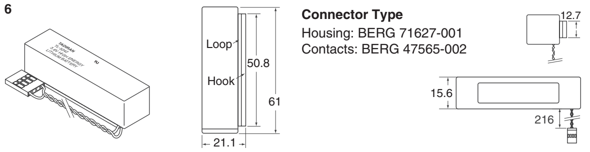

Connector Type
Housing: BERG 71627-001
Contacts: BERG 47565-002

Fig. 7

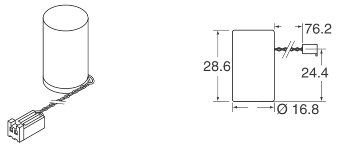

Connector Type
IDC 1308-102-426

Fig.	Series	Type	Nom. (V)	Nominal Capacity (mAh)	Dimensions (mm) A	B	C	D	E	F	Weight* (g)	Nominal Discharge Current (mA)	Digi-Key Part No.	Pricing 1	10	Carton	Tadiran Part No.
1	High Power	AA	4	550	50.3	15.1	—	—	—	—	19.2	50	439-1042-ND	22.00	203.50	4306.50/270	TLM-1550HP
		2/3AA	4	240	26.9	14.8					11	20	439-1045-ND	20.00	185.00	3625.00/250	TLM-1530HP
		1/2AA	4	135	19.7	15.1					7.9	12	439-1046-ND	18.00	166.50	3262.50/250	TLM-1520HP
		1/2AA	4	200	19.7	15.1					8.0	12	439-1047-ND	20.00	185.00	3625.00/250	TLM-1520MP
3		AA with Tab	4	800	50.5	14.8					20	50	439-1043-ND	24.00	222.00	4698.00/270	TLM-1550MP/Z2/T
1	MBU	1/2AA	3.6	950	25.2	14.5	—	—	—	—	9	0.5	439-1002-ND	4.72	43.66	1711.00/500	TL-5101/S
		AA	3.6	2,100	50.5	14.5					17.4	2.0	439-1012-ND	5.78	53.47	2095.25/500	TL-5104/S
2		1/2AA with Leads	3.6	950	25.2	14.5	—	—	—	—	9	0.5	439-1003-ND	5.04	46.62	1096.20/300	TL-5101/P
		AA with Leads	3.6	2,100	50.5	14.5					17.4	2.0	439-1013-ND	6.10	56.43	2211.25/500	TL-5104/P
4		1/10D	3.6	1,000	6.5	32.9	2	3.2	15.24	7.62	16.8	0.5	439-1023-ND	7.38	68.27	3745.35/700	TL-5134/P
		1/6D	3.6	1,700	10.2	32.9	2	3.2	15.24	7.62	21.5	0.5	439-1024-ND	9.76	90.28	3962.56/560	TL-5135/P
5		BEL	3.6	400	6.75	18.5	22.5	7.5	4.2	7.62	5.3	0.3	439-1025-ND	5.04	46.62	1827.00/500	TL-5186
1	XTRA™	1/2AA	3.6	1,000	25.2	14.5	—	—	—	—	9	1.0	439-1000-ND	4.94	45.70	1790.75/500	TL-2150/S
		AA	3.6	2,100	50.5	14.5					17.4	2.0	439-1010-ND	6.10	56.43	2211.25/500	TL-2100/S
2		1/2AA with Leads	3.6	1,000	25.2	14.5	—	—	—	—	9	1.0	439-1001-ND	5.26	48.66	1144.05/300	TL-2150/P
		AA with Leads	3.6	2,100	50.5	14.5					17.4	2.0	439-1011-ND	6.40	59.20	2320.00/500	TL-2100/P
1	XTRA™ High Capacity	1/2AA	3.6	1,200	25.2	14.5	—	—	—	—	9.2	1.0	439-1004-ND	5.78	53.47	2095.25/500	TL-5902/S
		2/3AA	3.6	1,650	33.5	14.5					11.8	1.3	439-1007-ND	6.52	60.31	2363.50/500	TL-5955/S
		AA	3.6	2,400	50.5	14.5					17.6	2.0	439-1014-ND	7.24	66.97	1574.70/300	TL-5903/S
2		1/2AA with Leads	3.6	1,200	25.2	14.5	—	—	—	—	9.2	1.0	439-1005-ND	6.10	56.43	1326.75/300	TL-5902/P
		2/3AA with Leads	3.6	1,650	33.5	14.5					11.8	1.3	439-1008-ND	6.82	63.09	1236.13/250	TL-5955/P
		AA with Leads	3.6	2,400	50.5	14.5					17.6	2.0	439-1015-ND	7.56	69.93	1370.25/250	TL-5903/P
3		1/2AA with Tabs	3.6	1,200	25.2	14.5	—	—	—	—	9.2	1.0	439-1006-ND	6.10	56.43	488.00/100	TL-5902/T
		2/3AA with Tabs	3.6	1,650	33.5	14.5					11.8	1.3	439-1009-ND	6.82	63.09	2472.25/500	TL-5955/T
		AA with Tabs	3.6	2,400	50.5	14.5					17.6	2.0	439-1016-ND	7.56	69.93	1644.30/300	TL-5903/T
1	Extended Temperature	1/2AA	3.6	900	25.2	14.5	—	—	—	—	9.6	1.0	439-1030-ND	6.96	64.38	2523.00/500	TLH-5902/S
		2/3AA	3.6	1,400	33.5	14.5					12.5	1.3	439-1032-ND	7.86	72.71	2849.25/500	TLH-5955/S
		AA	3.6	2,000	50.5	14.5					18	1.0	439-1034-ND	8.74	80.85	1900.95/300	TLH-5903/S
2		1/2AA with Leads	3.6	900	25.2	14.5	—	—	—	—	9.6	1.0	439-1031-ND	7.28	67.34	1583.40/300	TLH-5902/P
		2/3AA with Leads	3.6	1,400	33.5	14.5					12.5	1.3	439-1033-ND	8.18	75.67	1482.63/250	TLH-5955/P
		AA with Leads	3.6	2,000	50.5	14.5					18	1.0	439-1035-ND	9.06	83.81	1642.13/250	TLH-5903/P
4	iXtra Waffers	1/10D	3.6	1,000	6.5	32.9	3.4	2.7	15.24	7.62	16.3	1.0	439-1037-ND	9.36	86.58	2035.80/300	TLH-5934/P
		1/6D	3.6	1,500	10.2	32.9	3.5	2.7	15.24	7.62	21	1.0	439-1038-ND	12.36	114.33	2150.64/240	TLH-5935/P
		1/10D	3..6	1,000	6.5	32.9	3.4	2.7	15.24	7.62	16.3	1.0	439-1040-ND	8.12	75.11	1766.10/300	TL-5934/P
		1/6D	3.6	1,700	10.2	32.9	3.5	2.7	15.24	7.62	21	1.0	439-1041-ND	10.74	99.35	1868.76/240	TL-5935/P
5		2450	3.6	550	6.2	24	—	5.8	4.8	7.62	8.8	0.5	439-1036-ND	5.32	49.21	1851.36/480	TLH-2450/P
		2450	3.6	550	6.2	24		5.8	4.8	7.62	8.8	0.5	439-1039-ND	4.20	38.85	1461.60/480	TL-2450/P
6	Standard Battery Packs w/ Connectors	MBU - AA	3.6	2,100	—	—	—	—	—	—	27	2.0	439-1026-ND	10.50	97.13	2283.75/300	TL-5242/W
7		XTRA™ - 1/2AA	3.6	1,000	—	—	—	—	—	—	12.5	1.0	439-1027-ND	8.30	76.78	3429.98/570	TL-5276/W

* See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Energizer® Industrial Alkaline, Silver Oxide and Zinc Air Batteries

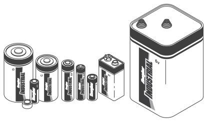

Energizer® Industrial Alkaline batteries contain the long-lasting power found in Energizer Max® alkaline batteries with a design enhanced for today's heavy current or continuous use applications. **Features:** • No mercury added • Excellent shelf life **Applications:** • Telemetry • Portable Communication • Cameras • Audio Devices • High-Powered Flashlights • Pagers • TV Remote Controls • Electronic Door Locks • Smoke Detectors and more

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	(V)	Average Capacity (mAh)	Cut-Off Voltage (V)	Rated Drain/Load	Dimensions — Inch (mm)		Weight oz. (g)	Digi-Key Part No.	Pricing			Energizer Part No.
					Diameter	Height			Each	Pkg. or Tray	Carton	
D	1.5	20,500	0.8	25mA	1.346 (34.2)	2.421 (61.5)	5.03 (141.9)	N105-ND	1.56	12.48/12	65.52/72	EN95
C	1.5	8,350	0.8	25mA	1.031 (26.2)	1.969 (50)	2.3 (66.2)	N106-ND	1.32	10.56/12	55.44/72	EN93
AA	1.5	2,779	0.8	25mA	0.571 (14.5)	1.988 (50.5)	0.8 (23)	N107-ND	.69	11.04/24	57.96/144	EN91
AAA	1.5	1,250	0.8	25mA	0.413 (10.5)	1.752 (44.5)	0.4 (11.5)	N146-ND	.69	11.04/24	57.96/144	EN92
N	1.5	1,000	0.8	25mA	0.472 (12)	1.189 (30.2)	0.3 (9)	N147-ND	1.08	17.28/24	269.57/576	E90VP
9V	9.0	625	4.8	25mA	1.909 x 1.043 x 0.689	(48.5 x 26.5 x 17.5)	1.6 (45.6)	N145-ND	2.52	20.16/12	105.84/72	EN22
6V Lantern	6.0	18,000	3.2	25mA	2.685 (68.2)	4.063 (103.2)	23.5 (665)	N401-ND	11.33	54.36/6	475.65/60	EN529
D	Solder Tabbed Version of above							N105T-ND	1.92	15.36/12	80.64/72	EN95T
C	Solder Tabbed Version of above							N106T-ND	1.68	13.44/12	70.56/72	EN93T
AA	Solder Tabbed Version of above							N107T-ND	1.05	16.80/24	88.20/144	EN91T
Specialty Type — Small Electronics and Keyless Entry												
Cylinder	12	65	6.0	.48mA/20kΩ	0.406 (10.3)	1.122 (28.5)	0.26 (7.5)	N403-ND	1.17	18.72/24	936.00/2,000	A23CVP
Button	1.5	150	0.9	.17mA/7.5kΩ	0.457 (11.6)	0.213 (5.4)	0.08 (2.3)	N402-ND	.60	9.60/24	240.00/1,000	A76VP
Button	1.55	41	1.3	.103mA/15kΩ	0.311 (7.90)	0.142 (3.60)	0.023 (0.57)	N100-ND§	.75	60.00/100	399.00/1,000	392-384TS
Button	1.55	75	1.2	.155mA/10kΩ	0.311 (7.90)	0.213 (5.40)	0.04 (1.12)	N101-ND§	1.70	136.00/100	904.40/1,000	393
Button	1.55	175	1.3	.238mA/6.5kΩ	0.457 (11.6)	0.213 (5.40)	0.08 (2.3)	N102-ND§	1.33	106.00/100	704.90/1,000	357-303HVP
Button	1.55	120	1.3	.238mA/6.5kΩ	0.457 (11.6)	0.165 (4.20)	0.06 (1.7)	N108-ND§	1.33	106.00/100	704.90/1,000	386-301TS
Button	1.55	85	1.3	.103mA/15kΩ	0.457 (11.6)	0.120 (3.05)	0.048 (1.35)	N109-ND§	1.33	106.00/100	704.90/1,000	390-389TS
Button	1.55	26	1.3	.034mA/45kΩ	0.268 (6.80)	0.102 (2.60)	0.015 (0.42)	N110-ND§	.90	72.00/100	478.80/1,000	377-376TS
Button	1.55	32	1.3	.034mA/45kΩ	0.311 (7.90)	0.102 (2.60)	0.018 (0.5)	N111-ND§	1.03	82.00/100	545.30/1,000	397-396TS

Size	(V)	Average Capacity (mAh)	Cut-Off Voltage (V)	Rated Drain/Load	Dimensions — Inch (mm)		Weight oz. (g)	Digi-Key Part No.	Note: 1 Card contains 4 batteries Pricing			Energizer Part No.
					Diameter	Height			1 card	10 cards	100 cards	
NEW! Hearing Aid Batteries NEW!												
Button	1.4	91	0.9	.43mA/3kΩ	0.228 (5.80)	0.142 (3.60)	0.01 (0.32)	N115-ND†	4.38	39.38	350.00	AC10-4AP
Button	1.4	280	0.9	1.3mA/1kΩ	0.311 (7.90)	0.213 (5.40)	0.03 (0.8)	N116-ND†	4.38	39.38	350.00	AC13-4AP
Button	1.4	160	0.9	1.3mA/1kΩ	0.311 (7.90)	0.142 (3.60)	0.02 (0.5)	N117-ND†	4.38	39.38	350.00	AC312-4AP
Button	1.4	635	0.9	2.1mA/625Ω	0.457 (11.60)	0.213 (5.40)	0.1 (1.9)	N118-ND†	4.10	36.90	328.00	AC675-4AP

§ Silver Oxide † Zinc Air

Instant Cell Phone Chargers

Energi To Go™

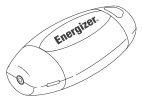

Includes 2 Energizer Lithium Batteries. (N602-ND)

Applications:
Cellphone charger for Backup, Travel and Emergency use.

Features:
• Reusable • Convenient • Portable

Fig. 1

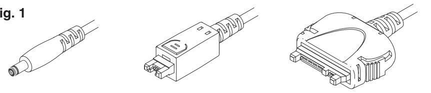

Fig. 2

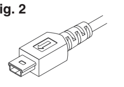

Fig. 3

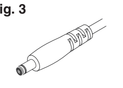

Fig. 4

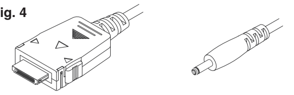

Fig.	Description	Digi-Key Part No.	Price Each	Energizer Part No.
1	Charger plus 2 Lithium AA Batteries and 3 Motorola Connectors	N320-ND	19.99	CEL2MOT
2	Charger plus 2 Lithium AA Batteries and 1 Mini USB Connector	N321-ND	19.99	CEL2MUSB
3	Charger plus 2 Lithium AA Batteries and 1 Nokia Connector	N322-ND	19.99	CEL2NOK
4	Charger plus 2 Lithium AA Batteries and 1 Sprint and 1 Samsung Connector	N323-ND	19.99	CEL2SPR

Flashlights

Energizer® Industrial lighting products are built tough to bring safety and security to every job.

TUF4DPE: • Impact Resistant • Weatherproof • Shatterproof Lens • Survives a 30 Foot Drop • Hands-Free Two Position Stand • Long Battery Life • One K2 Luxeon LED

451: • Floating Lantern • Large Reflector for Bright Beam • Weatherproof

5109IND: • Large Reflector for Bright Beam • Weatherproof • Floats

TUF2DPE: • Impact Resistant • Weatherproof • Shatterproof Lens • Survives a 15 Foot Drop • Large, Powerful Light • Long Battery Life

TUF4AAPE: • Impact Resistant • Weatherproof • Floats • Shatterproof Lens • Survives a 20 Foot Drop • Lifetime Pushbutton Switch

TUF2AAPE: • Impact Resistant • Weatherproof • Shatterproof Lens • Survives a 30 Foot Drop • Lifetime Pushbutton Switch

4250IND: • Heavy Duty Rubber Flashlight • Impact Resistant • Krypton Bulb

ML3W2AAL / ML1W2AAE: • Compact and Lightweight • Aluminum Body • Rubber Grip • Lifetime LED Lamp • Reduced Battery Consumption

MLT3W2AAL / MLT1W2AAL: • High Strength Aluminum Case • Tail Switch for One-Handed Operation • Textured Grip • Lifetime LED Lamp • Reduced Battery Consumption

K220WB-E: • Rugged, Impact Resistant Housing • Rubber Grip • Weatherproof • Floats • Krypton Bulb • Lanyard Included

PLED23AE: • Strong, Lightweight Aluminum • Pocket Clip • Push Button Switch

HDL33A2: • Multiple Position Pushbutton Switch • Swivel Adjustment • 2 White LEDs for Spot • 2 White LEDs for Flood • 4 White LEDs for Flood/Spot • 2 Red LEDs for Night Vision

TUF421PE: • Impact Resistant • Weatherproof • Shatterproof Lens • Survives a 15 Foot Drop • Broad Beam • Hands-Free for Table or Bench Top Use • Four Nichia CS LEDs

TUF4CPE: • Impact Resistant • Weatherproof • Floats • Shatterproof Lens • Survives a 15 Foot Drop • Long Distance Beam • One 3 Watt Luxeon LED

FNL2BU1: • Flexible Neck • Large Spring Clip Mount • Hands-Free • Lifetime LED Lamp • 30 Hour Runtime

Fig.	Description	Power Source	Lamp Output	Weight Without Batteries oz. (g)	Digi-Key Part No.	Price Each	Energizer Part No.
1	Hard Case LED Lantern	4 D‡	100 Lumens	43.08 (1224.4)	N521-ND	58.10	TUF4DPE
2	Industrial Lantern	Lantern	28.5 Lumens	7.7 (220)	N514-ND	4.30	5109IND
3	2 LED Hard Case	2 D‡	65 Lumens	11.74 (513.2)	N517-ND	47.22	TUF2DPE
3	4 LED Hard Case	4 AA‡	24 Lumens	11.9 (336)	N519-ND	29.52	TUF4AAPE
4	3 LED Hard Case	2 AA‡	18 Lumens	4.1 (116)	N516-ND	24.00	TUF2AAPE
5	Industrial Rubber	2 D	16.5 Lumens	5.3 (148)	N508-ND	8.20	4250IND
6	Metal 3 Watt LED	2 AA†	65 Lumens	3.79 (107)	N522-ND	46.76	ML3W2AAL
6	Metal 1 Watt LED	2 AA	45 Lumens	3.79 (107)	N523-ND	33.00	ML1W2AAE
7	Tactical Metal 3 Watt LED	2 AA†	65 Lumens	3.66 (103.7)	N524-ND	47.22	MLT3W2AAL
7	Tactical Metal 1 Watt LED	2 AA†	45 Lumens	3.66 (103.7)	N525-ND	39.98	MLT1W2AAL
8	Contractor	2 AA‡	7 Lumens	4.0 (113)	N509-ND	7.52	K220WB-E
9	Pen Light	2 AAA‡	5.6 Candela	0.7 (19)	N515-ND	8.10	PLED23AE
10	6 LED Head Beam	3 AAA‡	5.6 Candela	1.6 (46)	N512-ND	22.16	HDL33A2
11	Hard Case LED Swivel Head	4 AA‡	24 Lumens	17.1 (483)	N518-ND	33.22	TUF421PE
12	Hard Case LED Spotlight	4 C‡	65 Lumens	29 (818.2)	N520-ND	47.28	TUF4CPE
13	Industrial Trim Flex LED	2 - CR2032 Lithium Coin Cells	6 Lumens	1.128 (32)	N526-ND	9.54	FNL2BU1CS

‡ Batteries included † Lithium Batteries recommended

Dimensions in Inches

Fig. 1

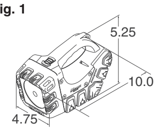

Fig. 2

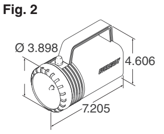

Fig. 3

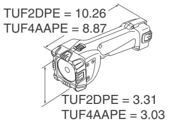

Fig. 4

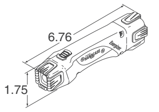

Fig. 5

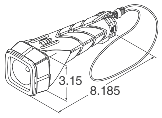

Fig. 6

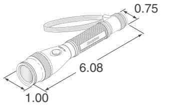

Fig. 7

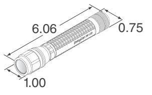

Fig. 8

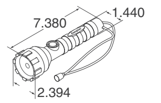

Fig. 9

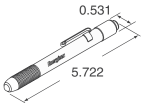

Fig. 10

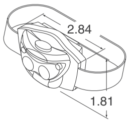

Fig. 11

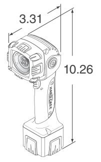

Fig. 12

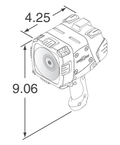

Fig. 13

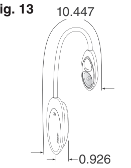

Panasonic® Industrial Alkaline and OxyRide™ Batteries

MADE IN U.S.A.

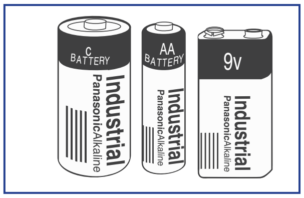

Alkaline: The cylindrical alkaline battery is composed of: manganese dioxide for the positive-activating substance, zinc powder for the negative-activating substance, and caustic alkali for the electrolyte.

Features: • Large Current and Large Capacity for an Excellent Performance • Stable Voltage and Current • Unsurpassed Resistance to Leakage • Excellent Storage Life

Applications: 99% *MERCURY FREE:* • Headphone stereo, radio-cassette recorders, strobes, cameras, electronic calculators, 8 mm cameras, electric shavers, tape recorders, high-power flashlights, toys and other cordless products. Also available in tabbed versions denoted by "T" suffix in Digi-Key part number.

OxyRide: is the result of a two-way breakthrough in materials and manufacturing technology exclusive to Panasonic. The OxyRide battery uses newly developed oxyhydroxide which releases a higher initial voltage than traditional alkaline batteries, while a new vacuum-pouring technology allows a higher quantity of electrolytes to be inserted into the battery. As a result of these innovations, the Oxyride battery offers more power and longer-lasting energy.

Applications: • Digital Cameras • High Current Drain Devices • Applications of >500mW or >500mA • Also available in tabbed versions denoted by "T" suffix in Digi-Key part number.

OxyRide batteries are NOT recommended for use in flashlights (except LED flashlights) or any product with bulbs

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	Voltage (V)	Dimensions – Inch (mm) Diameter	Height	Weight* Oz. (grams)	Capacity (to 0.9V/Cell)	Digi-Key Part No.	Pricing Each	Package	Carton	Panasonic Part No.
					Alkaline					
C	1.5	1.031 (26.2)	1.969 (50.0)	2.29 (65)	380 hrs. (100Ω cont.)	P106-ND	1.26	20.16/24	157.25/288	AM-2PIX
AA	1.5	0.571 (14.5)	1.988 (50.5)	0.85 (24)	170 hrs. (100Ω cont.)	P107-ND	.54	3.60/10	93.60/400	AM-3PAI/2SB
AAA	1.5	0.413 (10.5)	1.752 (44.5)	0.42 (12)	65 hrs. (100Ω cont.)	P146-ND	.54	3.60/10	117.00/500	AM-4PAI/2SB
N	1.5	0.472 (12.0)	1.189 (30.2)	0.32 (9)	48 hrs. (100Ω cont.)	P147-ND†	1.08	17.28/24	280.80/600	AM5X
9V	9	1.93 x 1.04 x 0.69 (49.0 x 26.0 x 17.5)		1.66 (47)	6 hrs. (100Ω cont. to 5.4V)	P145-ND	2.31	18.48/12	388.08/288	6AM-6PAI/B
C	1.5	Tabbed Version				P106T-ND	1.62	25.92/24	202.18/288	AM-2PIXT
AA	1.5	Tabbed Version				P107T-ND	.81	5.40/10	140.40/400	AM-3PIX/2ST
					OxyRide					
AA	1.5‡	0.551 (14.0)	1.969 (50.0)	0.84 (23)	2800 mWh @100 mW	P277-ND†	1.20	40.00/50	520.00/1000	ZR-6XA/BOEM
AAA	1.5‡	0.402 (10.2)	1.736 (44.1)	0.42 (12)	1300 mWh @50 mW	P278-ND†	1.20	40.00/50	300.00/500	ZR-03XA/BOEM
AA	1.5‡	Tabbed Version				P277T-ND†	1.56	52.00/50	676.00/1000	ZR-6XA/BOEMT

***** See "Ordering Information" for note on shipping charges on prepaid orders. † Made in Japan ‡ Initial Voltage 1.7V

Panasonic® Extra / Super Heavy Duty Carbon Zinc Batteries

Panasonic Extra / Super Heavy Duty batteries are composed of: manganese dioxide for the positive-activating substance, zinc for the negative-activating substance, and an aqueous solution of neutral salts such as zinc chloride and ammonium chloride for the electrolyte. **Features:** • Leakage Resistant • Discharge characteristics for general applications • Good storage life **Applications:** • Radios, clocks and various other electronic products • Flashlights **Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.**

Size	Voltage (V)	Dimensions Inch (mm) Diameter	Height	Weight* Oz. (grams)	Capacity (to 0.9V/Cell)	Digi-Key Part No.	Each	Pricing Pkg.	Carton	Panasonic Part No.
D	1.5	1.339 (34.0)	2.421 (61.5)	3.53 (100)	700 hrs. (100Ω cont.)	P113-ND	.72	11.52/24	50.40/120	UM1NPA
C	1.5	1.031 (26.2)	1.969 (50.0)	1.82 (51.5)	310 hrs. (100Ω cont.)	P114-ND	.66	10.56/24	46.20/120	UM2NPA
AA	1.5	0.571 (14.5)	1.988 (50.5)	0.67 (19)	110 hrs. (100Ω cont.)	P103-ND	.33	13.20/60	85.80/600	UM-3NX
AAA	1.5	0.413 (10.5)	1.752 (44.5)	0.34 (9.7)	39 hrs. (100Ω cont.)	P265-ND	.30	10.00/50	78.00/600	R03NPA/BK
N	1.5	0.472 (12.0)	1.189 (30.2)	0.23 (6.55)	30 hrs. (100Ω cont.)	P266-ND	.33	11.00/50	264.00/2000	UM-5NX
9V	9	1.91 x 1.04 x 0.69 (48.5 x 26.5 x 17.5)		1.34 (38)	2.5 hrs. (100Ω cont. to 5.4V)	P104-ND	1.77	11.80/10	206.50/200	006PNX

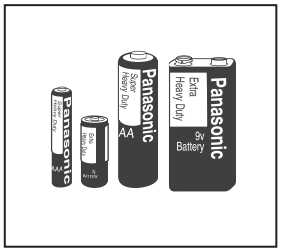

***** See "Ordering Information" for note on shipping charges on prepaid orders.

Panasonic® Sealed Lead-Acid Batteries (Valve Regulated)

GENERAL FEATURES: "DO NOT LEAK!!"

• **High Quality & High Reliability:** The LCR battery has stable and reliable capacity. 100% tested on line for voltage, capacity, and seals. And all vents are 100% visually inspected during the final assembly process. • **High Power Density:** These batteries save installation space, while providing full and reliable power for the equipment, and many have been designed for rapid recharge, or for high power output. • **Leak-resistant Structure:** The LCR battery uses an absorbed electrolyte system. The LCR batteries have exceptional leak resistance, **and can be used in any position.** • **Long Service Life; Float or Cyclic:** The LCR battery has long life in float or cyclic service. • **Easy Maintenance:** There is no need to check the specific gravity of the electrolyte or to add water during the service life. Totally sealed, and needs only charging for maintenance. • **No Corrosive Gas Generation:** There is no corrosive gas generation during normal use. • **Exceptional Deep Discharge Recovery:** LCR batteries have exceptional deep discharge recovery and charge acceptance, even after deep or prolonged discharge. • **D.O.T and I.A.T.A. Approval:** Transportation; The SLA batteries should be handled as common cargoes for both air and boat shipping. • **U.L. Component Recognition:** U.L. Component Recognition under UL1989, requires that the battery safely vent when overcharged. It further requires that the equipment and battery be submitted together for formal UL approval. **(UL Component Recognition does NOT remove this requirement for complete package testing).** The manufacturer suggests peak charging all sealed lead acid batteries before use and intermittently during storage.

Note: Recycling information available on Digi-Key website.

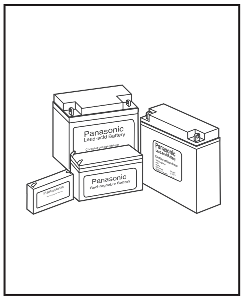

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

CROSS REFERENCE ABBREVIATIONS:

EP = Eagle-Picher
YU = Yuasa
PS = Power Sonic
PA = Panasonic

(V)	Cap. 20h Rate (Ah)	Dimensions – Inch (mm) L x W x H	Terminal Type (Inch)	Weight* lbs. (kg)	Digi-Key Part No.	Pricing 1	10	Carton	Panasonic Part No.	Panasonic Replacement Battery Cross Reference (see cross reference abbreviations)
6	1.3	3.82 x 0.94 x 1.97 (97 x 24 x 50)	.187 spade	0.66 (.30)	P128-ND	12.21	108.56	379.95/40	LC-R061R3P	EP: CF-6V1.3; YU: NP1.2-6; PS: PS-612
	3.4	5.28 x 1.34 x 2.36 (134 x 34 x 60)	.187 spade	1.37 (.62)	P166-ND	24.17	214.81	451.10/24	LC-R063R4P	EP: CF-6V3.4; YU: NP3-6; PS: PS-630
	4.5	2.76 x 1.89 x 4.02 (70 x 48 x 102)	.187 spade	1.59 (.72)	P141-ND	14.19	129.00	278.64/24	LC-R064R5P	EP: CF-6V4.5; YU: NP4-6; PS: PS-640
	7.2	5.95 x 1.34 x 3.70 (151 x 34 x 94)	.187 spade	2.78 (1.26)	P074-ND	22.10	—	218.00/12	LC-R067R2P	EP: CF-6V7(A); YU: NP7-6(A); PS: PS-670F1
	12.0	5.95 x 1.97 x 3.70 (151 x 50 x 94)	.187 spade	4.30 (1.95)	P075-ND	28.10	—	277.28/12	LC-R0612P	EP: CF-6V12(A); YU: NP12-6(A); PS: PS-6100F1
	12.0	5.95 x 1.97 x 3.70 (151 x 50 x 94)	.250 spade	4.30 (1.95)	P165-ND	28.10	—	277.28/12	LC-R0612P1	EP: CF-6V12(C); YU: NP12-6(D); PS: PS-6100F2
12	1.3	3.82 x 1.87 x 1.97 (97 x 47.5 x 50)	.187 spade	1.30 (.59)	P264-ND	25.71	228.51	399.90/20	LC-R121R3P	EP: CF-12V1.3; YU: NP1.2-12; PS: PS-1212
	2.2	6.97 x 1.34 x 2.36 (177 x 34 x 60)	.187 spade	1.76 (.80)	P171-ND	30.19	268.33	563.49/24	LC-R122R2P	EP: CF-12V2; YU: NP2.3-12; PS: PS-1220
	3.4	5.28 x 2.64 x 2.36 (134 x 67 x 60)	.187 spade	2.65 (1.20)	P172-ND	39.71	—	370.65/12	LC-R123R4P	EP: CF-12V3; YU: NP2.6-12; PS: PS-1230
	7.2	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.187 spade	5.45 (2.47)	P078-ND	34.90	—	271.43/10	LC-R127R2P	EP: CF-12V7.2(A); YU: NP7-12(A); PS: PS-1270F1
	7.2	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.250 spade	5.45 (2.47)	P218-ND	34.90	—	271.43/10	LC-R127R2P1	EP: CF-12V7.2(C); YU: NP7-12(D); PS: PS-1270F2
	12	5.95 x 3.86 x 3.70 (151 x 98 x 94)	.250 spade	8.41 (3.8)	P230-ND	51.95	—	242.45/6	LC-RA1212P1	EP: CF-12V12; YU: NP12-12; PS: PS-12120
	17	7.13 x 2.99 x 6.58 (181 x 76 x 167)	nut/bolt	14.3 (6.5)	P174-ND	63.67	—	218.28/4	LC-RD1217P	EP: CF-12V17; YU: NP18-12; PS: PS-12180
	20	7.13 x 2.99 x 6.58 (181 x 76 x 167)	nut/bolt	14.6 (6.6)	P231-ND	74.27	—	254.64/4	LC-X1220P	—
	28	6.50 x 4.92 x 7.07 (165 x 125 x 179.5)	nut/bolt	24.3 (11)	P049-ND	101.41	869.25	—	LC-X1228P	PA: LCXB1228P
	28	6.50 x 4.92 x 6.89 (165 x 125 x 175)	Threaded post	24.3 (11)	P629-ND	101.41	869.25	3245.20/40	LC-X1228AP	—
	33	7.70 x 5.12 x 7.09 (195.6 x 130 x 180)	nut/bolt	26.5 (12)	P259-ND	107.80	924.00	—	LC-R1233P	EP: CF-12V33U1; PS: PS-12330; PA: LCR12V33

(V)	Cap. @ 10 Minute Rate (watt/cell)	Dimensions — Inch (mm) L x W x H	Terminal Type (Inch)	Weight lbs. (kg)	Digi-Key Part No.	Pricing 1	Carton	Panasonic Part No.	Panasonic Replacement Battery Cross Reference
				Watt-Rated Series (Designed for UPS Back-up Systems)					
12	20W	5.51 x 1.52 x 3.70 (140 x 38.5 x 94)	.250 spade	2.98 (1.35)	P210-ND	32.06	316.35/12	UP-RW1220P1	—
	45W	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.250 spade	5.62 (2.55)	P225-ND	39.80	327.27/10	UP-RW1245P1	PA; LC-R129P1, PA; LC-R129CH1

* See "Ordering Information" for note on shipping charges on prepaid orders.

Sealed Lead-Acid Batteries (Valve Regulated)

TECHNICAL FEATURES: "DO NOT LEAK!!"

- **Sealed Construction:** BB unique construction and sealing technique ensures that no electrolyte leakage should occur from the terminals or case. They are classified as "Non-Spillable" and meet all requirements of the International Air Transport Association (I.A.T.A.) and D.O.T.
- **Electrolyte Suspension System:** All BB batteries utilize an electrolyte suspension system consisting of a glass fibre separator material. This suspension system helps to achieve maximum service life, by fully retaining the electrolyte and preventing its escape from the separator material. No silica gels or other contaminants are used.
- **Maintenance Free Operation:** During the life of BB batteries, there is no need to check their specific gravity or add water etc. In fact, there are no provisions for such maintenance functions to be carried out.
- **Operation in any Orientation:** The combination of sealed construction and BB's electrolyte suspension system permits operation of BB batteries in any orientation, but upside-down charging should be avoided. Battery will not lose its capacity, electrolyte, or service life under any orientation.
- **Low Pressure Venting System:** BB batteries are equipped with a safe, low pressure venting system, which is designed to release excess gas and reseal automatically in the event of the internal gas pressure rising to an unacceptable level. This low pressure venting system, coupled with the significantly high recombination efficiency, make BB batteries one of the safest valve regulated lead acid batteries available.
- **Heavy Duty Grids:** The heavy duty lead calcium alloy grids in BB batteries provide an extra margin of performance and service life in both float and cyclic applications, even in conditions of deep discharge.

The manufacturer suggests peak charging all sealed lead acid batteries before use and intermittently during storage.

- **U.L. Component Recognition:** U.L. Component Recognition under UL1989, requires that the battery safely vent when overcharged. It further requires that the equipment and battery be submitted together for formal UL approval.

Note: Recycling information available on Digi-Key website.

Digi-Key® is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

CROSS REFERENCE ABBREVIATIONS:

EP = Eagle-Picher; YU = Yuasa; PS = Power Sonic; CS = CSB; PA = Panasonic; UP = Universal Power

Terminal Adapters

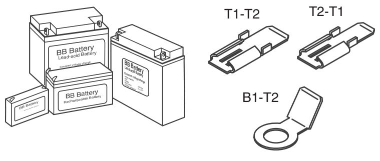

Terminal Adapters

Description	Digi-Key Part No.	Price Each	BB Part No.
0.187 Terminal ~ 0.250 Terminal	522-1019-ND	.50	T1-T2
0.250 Terminal ~ 0.187 Terminal	522-1020-ND	.50	T2-T1
Nut/Bolt Terminal ~ 0.250 Terminal	522-1021-ND	.50	B1-T2

(V)	Cap. 20h Rate (Ah)	Dimensions – Inch (mm) L x W x H	Terminal Type (Inch)	Weight* lbs. (kg)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing Carton	BB Part No.	BB Replacement Battery Cross Reference (see above for mfg. abbreviations)
					BP Series — General Use					
6	1.2	3.82 x 0.98 x 2.01 (97 x 25 x 51)	.187 spade	0.66 (.30)	522-1000-ND	11.70	104.00	500.50/55	BP1.2-6-T1	EP: CF-6V1.3; YU: NP1.2-6; PS: PS-612; CS: GP612; PA: LC-R061R3P, LCR6V1.3P
	3.0	5.28 x 1.34 x 2.36 (134 x 34 x 60)	.187 spade	1.43 (.65)	522-1001-ND	12.65	—	202.32/18	BP3-6-T1	EP: CF-6V3.4; YU: NP3-6; PS: PS-630; CS: GP630; PA: LC-R063R4P, LCR6V3.4P
	5.0	2.76 x 1.89 x 4.02 (70 x 48 x 102)	.187 spade	2.09 (.95)	522-1002-ND	14.56	—	191.51/16	BP5-6-T1	EP: CF-6V4.5; YU: NP4-6; PS: PS-640; CS: GP645; PA: LC-R064R2P, LCR6V4P
	7.0	5.94 x 1.34 x 3.70 (151 x 34 x 94)	.187 spade	2.87 (1.3)	522-1003-ND	20.07	—	198.02/12	BP7-6-T1	EP: CF-6V7(A); YU: NP7-6(A); PS: PS-670F1; CS: GP672F1; PA: LC-R067R2P, LCR6V7.2P
	7.0	5.94 x 1.34 x 3.70 (151 x 34 x 94)	.250 spade	2.87 (1.3)	522-1004-ND	20.07	—	198.02/12	BP7-6-T2	EP: CF-6V7(C); YU: NP7-6(D); PS: PS-670F2; CS: GP672F2; PA: LC-R067R2P1, LCR6V7.2P1
	12.0	5.94 x 1.97 x 3.70 (151 x 50 x 94)	.187 spade	4.52 (2.05)	522-1005-ND	26.30	—	173.01/8	BP12-6-T1	EP: CF-6V12(A); YU: NP12-6(A); PS: PS-6100F1; CS: GP6120F1; PA: LC-R0612P, LCR6V12P
	12.0	5.94 x 1.97 x 3.70 (151 x 50 x 94)	.250 spade	4.52 (2.05)	522-1006-ND	26.30	—	173.01/8	BP12-6-T2	EP: CF-6V12(C); YU: NP12-6(D); PS: PS-6100F2; CS: GP6120F2; PA: LC-R0612P1, LCR6V12P1
	13.0	4.25 x 2.80 x 5.51 (108 x 71 x 140)	H connector	5.51 (2.5)	522-1029-ND	34.85	—	229.25/8	BP13-6-WH	—
12	1.2	3.82 x 1.77 x 2.09 (97 x 45 x 53)	.187 spade	1.30 (.59)	522-1007-ND	17.93	147.45	418.43/30	BP1.2-12-T1	EP: CF-12V1.3; YU: NP1.2-12; PS: PS-1212; CS: GP1212; PA: LC-R121R3P, LCR12V1.3P
	2.3	7.01 x 1.34 x 2.36 (178 x 34 x 60)	.187 spade	2.07 (.94)	522-1008-ND	20.70	—	306.36/18	BP2.3-12-T1	EP: CF-12V2; YU: NP2.3-12; PS: PS-1220; CS: GP1222; PA: LC-R122R2P, LCR12V2.2P
	3.0	5.28 x 2.64 x 2.36 (134 x 67 x 60)	.187 spade	2.87 (1.30)	522-1009-ND	25.09	—	206.28/10	BP3-12-T1	EP: CF-12V3; YU: NP2.6-12; PS: PS-1230; CS: GP1234; PA: LC-R123R4P, LCR12V3.4P
	5.0	3.54 x 2.76 x 4.02 (90 x 70 x 102)	.187 spade	4.10 (1.86)	522-1022-ND	25.97	—	170.79/8	BP5-12-T1	EP: CF-12V4.5(A); YU: NP5-12(A); PS: PS-1250F1; CS: GP1245F1; PA: LC-R125P, LCR12V5P
	5.0	3.54 x 2.76 x 4.02 (90 x 70 x 102)	.250 spade	4.10 (1.86)	522-1010-ND	25.97	—	170.79/8	BP5-12-T2	EP: CF-12V4.5(C); YU: NP5-12(D); PS: PS-1250F2; CS: GP1245F2; PA: LC-R125P1, LCR12V5P1
	7.0	5.94 x 2.56 x 3.66 (151 x 65 x 93)	.187 spade	5.73 (2.60)	522-1011-ND	32.92	—	162.39/6	BP7-12-T1	EP: CF-12V7.2(A); YU: NP7-12(A); PS: PS-1270F1; CS: GP1272F1; PA: LC-R127R2P, LCR12V7.2P
	7.0	5.94 x 2.56 x 3.66 (151 x 65 x 93)	.250 spade	5.73 (2.60)	522-1012-ND	32.92	—	162.39/6	BP7-12-T2	EP: CF-12V7.2(C); YU: NP7-12(D); PS: PS-1270F2; CS: GP1272F2; PA: LC-R127R2P1, LCR12V7.2P1
	10	5.94 x 2.56 x 4.57 (151 x 65 x 116)	.250 spade	7.28 (3.3)	522-1030-ND	42.50	—	209.68/6	BP10-12-T2	UP: UB12100; PA: LCR12V10P; PS: PS-12100; YU: NP10-12; CS: GP12100
	12	5.94 x 3.86 x 3.70 (151 x 98 x 94)	.250 spade	8.89 (4.03)	522-1013-ND	48.29	—	158.80/4	BP12-12-T2	EP: CF-12V12; YU: NP12-12; PS: PS-12120; CS: GP12120; PA: LC-RA1212P1, LCR12V12PF
	17	7.13 x 2.99 x 6.54 (181 x 76 x 166)	nut/bolt	13.6 (6.15)	522-1014-ND	54.92	470.70	—	BP17-12-B1	EP: CF-12V17; YU: NP18-12; PS: PS-12180; CS: GP12170; PA: LC-RD1217P, LCR12V17
	20	7.13 x 2.99 x 6.54 (181 x 76 x 166)	nut/bolt	14.0 (6.35)	522-1026-ND	61.95	531.00	—	BP20-12-B1	CS: GP12200; PS: PSH-12180
	28	6.89 x 6.54 x 4.92 (175 x 166 x 125)	nut/bolt	21.2 (9.6)	522-1015-ND	82.51	707.25	—	BP28-12-B1	EP: CF-12V26; YU: NP24-12; PS: PS-12260; CS: GP12260
	33	7.68 x 5.08 x 7.05 (195 x 129 x 179)	nut/bolt	24.8 (11.3)	522-1016-ND	108.54	930.30	—	BP33-12S-B7	EP: CF-12V33U1; PS: PS-12330; CS: GP12340; PA: LC-R1233P, LCR12V33
	40	7.76 x 6.50 x 6.73 (197 x 165 x 171)	nut/bolt	31.5 (14.3)	522-1017-ND	127.16	1089.90	—	BP40-12-B2	EP: CFR-12V38; YU: NP38-12; PS: PS-12400; CS: GP12400; PA: LC-X1242P
	65	13.78 x 6.54 x 6.85 (350 x 166 x 174)	nut/bolt	54.0 (24.5)	522-1018-ND	204.30	1751.10	—	BP65-12-B2-2	EP: CFR-12V65; YU: NP65-12; PS: PS-12750; CS: GP12650; PA: LC-X1265P, LCR12V65P
					EB Series — Mobility Use					
12	50.0	7.76 x 6.50 x 6.73 (197 x 165 x 171)	nut/post	36.38 (16.5)	522-1028-ND	210.28	1802.40	—	EB50-12-I2	—
					HR Series — High Rate Use					
12	8.0†	5.94 x 2.56 x 3.70 (151 x 65 x 94)	.250 spade	6.06 (2.75)	522-1023-ND	52.25	—	257.74/6	HR9-12-T2	YU: NPX-L35; PS: PSH-1280F2; CS: HR1234WF2; PA: UP-RW1245P1, LC-R129P1, LCR129CH1
	13.0†	5.94 x 3.86 x 3.86 (151 x 98 x 98)	.250 spade	9.25 (4.20)	522-1025-ND	73.20	627.45	—	HR15-12-T2	CS: HR1251W
	20.0†	7.13 x 2.99 x 6.54 (181 x 76 x 166)	nut/bolt	14.33 (6.50)	522-1027-ND	97.35	834.45	—	HR22-12-B1	—
					MPL Series — High Rate, Long Life Standby Use					
12	53†	8.98 x 5.47 x 8.82 (228 x0 139 x 224)	nut/bolt	39.2 (17.8)	522-1024-ND	203.75	1746.45	—	MPL55-12-B5	CS: GPL12520; PS: PG-12V55

* See "Ordering Information" for note on shipping charges on prepaid orders. † Capacity at 10h rate (Ah)

Manufacturers of the following product brands: CONDOR AULT

Lead Acid Battery Chargers

TÜV

Features: • 100 ~ 240VAC • Switching DC Battery Chargers • Automatic Fast/Float Function • LED Indicator • Optimizes Battery Life • Meets Safety Agency Requirements • Complies with EMI-RFI Regulations • Impact Resistant Polycarbonate Enclosures • Three Year Warranty • **Note: IEC320 AC Power cords not included**

Fig.	Output VDC	Output mA	Max. Power (W)	Dim. – Inch (mm) L x W x H	AC Input Cord	Mating Connectors Panel Mount	Mating Connectors PCB Mount	Mating Connectors Harness Mount	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Ault Part No.
1	6	400	3	1.88 x 2.20 x 1.96 (48 x 56 x 50)	—	—	—	—	271-2377-ND	22.28	18.16	17.05	3VA0603007
	12	300	4.47						271-2378-ND	22.28	18.16	17.05	3VA1202507
1	6	400	3.73	2.95 x 2.72 x 1.93 (75 x 69 x 49)	—	—	—	—	271-2379-ND	22.28	18.16	17.05	5VA0606007
	12	500	7.45						271-2380-ND	22.28	18.16	17.05	5VA1205007
1	12	500	7.35	3.75 x 2.10 x 1.25 (95 x 53 x 32)	—	SC1048-ND	SC1050-ND	CP-024B-ND	271-2381-ND†	31.83	27.31	25.13	BA500120500003BK
2	12	500	7.35	3.75 x 2.10 x 1.25 (95 x 53 x 32)	Q348-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2382-ND	31.82	28.04	25.80	BA500120500003NK
3	6	1000	7.35	4.20 x 2.60 x 1.46 (107 x 66 x 37)	Q102-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2383-ND	50.80	45.00	42.10	BVL061000003N
	6	2000	14.70						271-2384-ND	50.80	45.00	42.10	BVL062000003N
	12	600	8.82						271-2385-ND	50.80	45.00	42.10	BVL120600003N
	12	1200	17.64						271-2386-ND	50.80	45.00	42.10	BVL121200003N
	24	300	8.82						271-2387-ND	53.71	44.42	42.10	BVL240300003N
	24	600	17.64						271-2388-ND	49.69	41.10	38.95	BVL240600003N
3	6	3800	28	5.08 x 3.05 x 1.59 (129 x 77 x 40)	Q102-ND	SC1048-ND	SC1050-ND	CP-024B-ND	271-2389-ND	79.73	70.35	65.66	BVW063800003A
	12	2250	33						271-2390-ND	79.73	70.35	65.66	BVW122250003A
	24	1250	37						271-2391-ND	79.73	70.35	65.66	BVW241250003A

† With power cord

Fig. 1

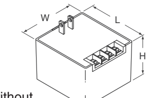

Shown without power cord

Fig. 2

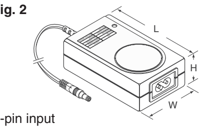

2-pin input

Fig. 3

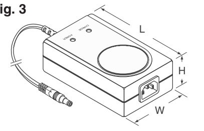

PATCO

Battery Charger/Maintainer

The InteliTender brings the battery to full optimum charge. Then, under the control of its computer, monitors the batteries voltage, supplying only what is needed to maintain the ideal charge.

Model 300 charges 2 batteries.

InteliTender Models 150 and 300

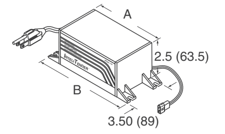

Volt	Amp	Model	Dim. – Inch (mm) A	Dim. – Inch (mm) B	Digi-Key Part No.	Price Each
			Battery Chargers			
6	.75	150	5.0 (127)	5.75 (146)	PATC-02-ND‡	69.93
6	1.5	150			PATC-01-ND†	69.93
12	.75	150			PATC-04-ND‡	69.93
12	1.5	150			PATC-03-ND†	69.93
12 x 2	1.5 x 2	300	7.0 (178)	7.75 (197)	PATC-08-ND†	124.88

‡ Recommended for 2.0 to 3.4 Ah batteries.
† Recommended for 4.0 Ah and above batteries.

Description	Digi-Key Part No.	Price Each
Cable (Must Order Separately)		
Battery Hook-up, Spring Clamp	PATC-07-ND	7.49
Motorcycle Hook-up, Ring Lugs	PATC-06-ND	5.00
Marine Hook-up, Ring Lugs	PATC-05-ND	5.00

Fig. 1
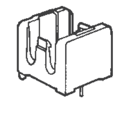

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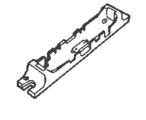

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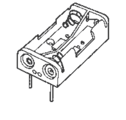

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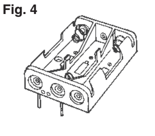

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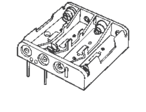

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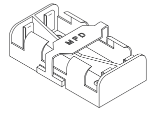

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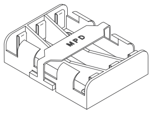

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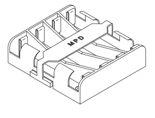

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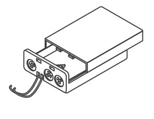

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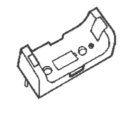

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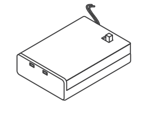

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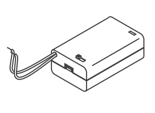

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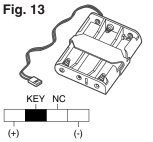

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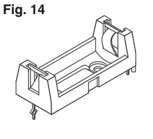

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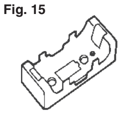

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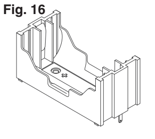

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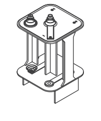

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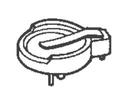

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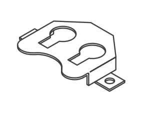

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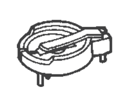

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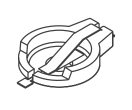

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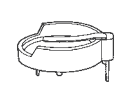

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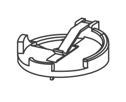

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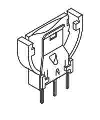

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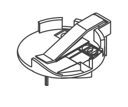

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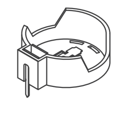

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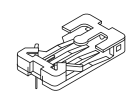

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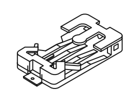

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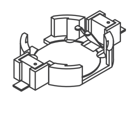

Fig. 30 ***NEW!***
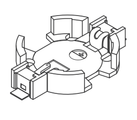

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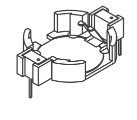

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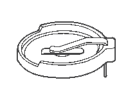

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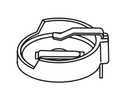

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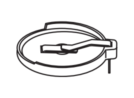

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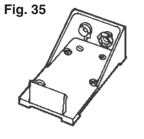

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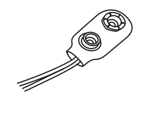

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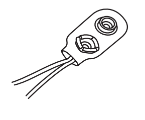

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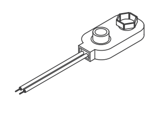

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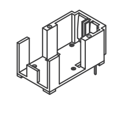

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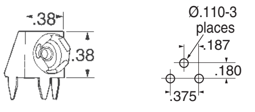

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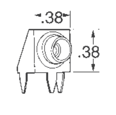

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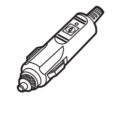

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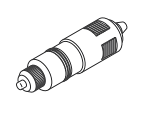

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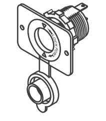

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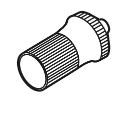

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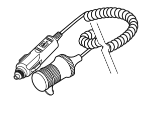

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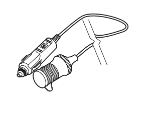

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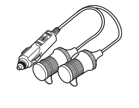

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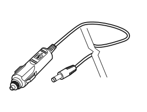

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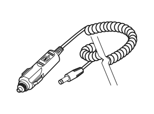

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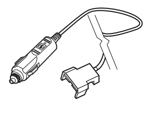

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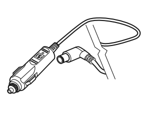

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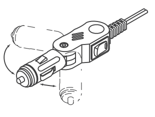

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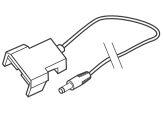

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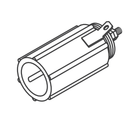

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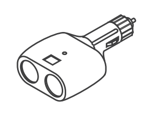

Battery Holders

L

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	100
		"1/3N" Cell Holders — RoHS Compliant				
1	1	PC Mount, Solder Legs	BC1/3N-ND	.84	.76	.64
		"N" Cell Holders				
2	2	PC Mount, Solder Legs	BH2N-ND	1.89	1.70	1.56
		"AAA" Cell Holders				
3	2	PC Mount, Solder Legs	BH2AAA-PC-ND◆	1.30	1.18	.98
4	3	PC Mount, Solder Legs	BH3AAA-PC-ND	2.19	1.98	1.65
3	2	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH2AAA-W-ND	1.30	1.18	.98
4	3	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH3AAA-W-ND	2.19	1.98	1.65
5	4	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH4AAA-W-ND	2.42	2.19	1.83
9	3	6" (152.40mm) Wire Leads, Stripped-Tinned .161" (5mm) with Cover	SBH-431-1A-ND◆	.75	.68	.57
		"AA" Cell Holders				
3	2	PC Mount, Solder Legs	BH2AA-PC-ND◆	1.37	1.24	1.03
4	3	PC Mount, Solder Legs	BH3AA-PC-ND	2.34	2.12	1.77
5	4	PC Mount, Solder Legs	BH4AA-PC-ND	2.52	2.27	1.90
6	2	PC Mount, Solder Legs	BK-6100-PC4-ND◆	2.70	2.22	2.10
7	3	PC Mount, Solder Legs	BK-1280-PC6-ND◆	2.88	2.52	2.26
8	4	PC Mount, Solder Legs	BK-1279-PC8-ND◆	3.35	2.76	2.43
10	1	PC Mount, Solder Legs	BHAA-3-ND◆	.84	.78	.70
11	3	Battery Case for 3 AA Cells, 6" (152.40mm) Wire Leads and Switch with Belt Clip	SBC331AS-GRN-ND◆	1.94	1.75	1.62
12	2	Battery Case for 2 AA Cells, 6" (152.40mm) Wire Leads and Switch	SBH-321AS-ND◆	.70	.63	.58
	3	Battery Case for 3 AA Cells, 6" (152.40mm) Wire Leads and Switch	SBH-331AS-ND	.98	.89	.82
12	4	Battery Case for 4 AA Cells, 6" (152.40mm) Wire Leads and Switch	SBH-341AS-ND	1.06	.95	.88
3	2	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH2AA-W-ND	1.37	1.24	1.03
4	3	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH3AA-W-ND◆	2.15	1.94	1.62
5	4	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH4AA-W-ND	2.52	2.27	1.90
		Computer Clock Battery Replacement — "AA" Cell Holder — RoHS Compliant				
13	3	9" (228.60mm) Wire Leads with Connector, Velcro Pads Included	BH3AA-211-ND	3.12	2.81	2.77
		"1/2AA" Cell Holders — RoHS Compliant				
10	1	PC Mount, Solder Legs	BH1/2AA-3-ND	.76	.70	.63
		"2/3A" or "123A" Cell Holders				
10	1	PC Mount, Solder Legs	BH2/3A-3-ND◆	.78	.73	.66
—		Cover for BH2/3A-3	BH2/3AC-ND	.65	.59	.50
14	1	PC Mount, Solder Legs	BC2/3AE-ND◆	1.43	1.32	.83
—		Cover for BC2/3AE	BC2/3AC-ND	.46	.42	.28
		"C" Cell Holders — RoHS Compliant				
15	1	PC Mount, Solder Legs	BHC-2-ND	1.97	1.78	1.72
		"D" Cell Holders — RoHS Compliant				
16	1	PC Mount, Solder Legs	BHD-2-ND	3.98	3.49	3.03
		Lantern Battery Replacement — "D" Cell Holders — RoHS Compliant				
17	4	Uses Four UM-1 or D Cells	BA4D-S-ND	2.92	2.63	2.54
		Coin Cell Holders — 10mm Cell Diameter — RoHS Compliant				
18	1	PC Mount, Solder Legs, 2 ~ 2.5mm Cell Height	BH401-ND	.95	.86	.75

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

(Continued)

Battery Holders *(Cont.)*

Digi-Reel®

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	100
Coin Cell Holders — 12.5mm Cell Diameter — RoHS Compliant						
18	1	PC Mount, Solder Legs, 2 ~ 2.5mm Cell Height	BH501-ND	1.14	.96	.89
19	1	SMT, 1.6 ~ 2.5mm Cell Height	BK-885-CT-ND†	.45	.38	.30
		SMT, 1.6 ~ 2.5mm Cell Height	BK-885-TR-ND‡		199.11/800	
Coin Cell Holders — 16mm Cell Diameter — RoHS Compliant						
20	1	PC Mount, Solder Legs, 1.6 ~ 3.2mm Cell Height	BH600-ND	.83	.76	.63
21		SMT, Temperature Range -40°C ~ 245°C	BH600SM-ND	1.13	1.02	.86
21		SMT, Temperature Range -40°C ~ 245°C, Gold	BH600SM-G-ND ***NEW!***	.90	.82	.76
21		SMT, High Temperature, 16x5.8mm, Gold	BH600SM-5.8-G-ND ***NEW!***	1.00	.90	.83
Coin Cell Holders — 20mm Cell Diameter — RoHS Compliant						
19	1	SMT, 1.6 ~ 3.2mm Cell Height	BK-883-CT-ND†	.45	.38	.30
		SMT, 1.6 ~ 3.2mm Cell Height	BK-883-TR-ND‡		134.40/450	
22	2	PC Mount, Solder Legs 2.5 ~ 3.2mm Cell Height	BH800S-ND	.60	.55	.54
23	1	PC Mount, Solder Legs	BH32T-C-ND	1.04	.79	.66
24	1	Vertical, for BR, CR2032 Battery	BS-5-ND	.74	.67	.56
25		Horizontal, for BR, CR2032 Battery	BS-3-ND	.68	.62	.52
26	1	Horizontal, for 3V Lithium Battery, CR2032 or BR2032	BS-7-ND	.74	.67	.56
27	1	PC Mount, Press-to-Eject Feature, CR2032 Battery	BA2032-ND	1.01	.69	.61
28		SMT, Press-to-Eject Feature, CR2032 Battery	BA2032SM-ND	1.01	.69	.61
29	1	SMT for 2032, Gold	BU2032SM-HD-GCT-ND†	.90	.75	.60
		SMT for 2032, Gold	BU2032SM-HD-GTR-ND‡		225.60/400	
30	1	SMT, High Grip Holder for 2032, Gold	BU2032SM-JJ-GCT-ND† ***NEW!***	.78	.65	.52
		SMT, High Grip Holder for 2032, Gold	BU2032SM-JJ-GTR-ND‡ ***NEW!***		195.52/400	
31	1	PC Mount for 2032, Gold	BU2032-1-HD-G-ND	.63	.57	.53
Coin Cell Holders — 23mm Cell Diameter — RoHS Compliant						
19	1	SMT, 2 ~ 3mm Cell Height	BK-884-CT-ND†	.45	.38	.30
22	2	PC Mount, Solder Legs, 2.5mm Cell Height	BH906S-ND	.98	.89	.74
23	1	PC Mount, Solder Legs, 2 ~ 3.2mm Cell Height	BH908T-C-ND	1.04	.79	.66
Coin Cell Holders — 24-25mm Cell Diameter — RoHS Compliant						
19	1	SMT, 2 ~ 3mm Cell Height	BK-886-CT-ND†	.45	.38	.30
32	1	PC Mount, Solder Legs, 2 ~ 3mm Cell Height	BH2430T-C-ND	.95	.86	.75
33		PC Mount, Solder Legs, 7.7mm Cell Height	BH1000-G-ND	1.19	1.10	.93
Coin Cell Holders — 30mm Cell Diameter — RoHS Compliant						
34	1	PC Mount, Solder Legs, 3.2mm Cell Height	BH3000-ND	1.19	1.10	.93
9-Volt Cell Holders / Snaps — RoHS Compliant						
35	1	PC Mount, Solder Legs	BH9V-PC-ND	1.15	1.04	.88
		6" (152.40mm) Wire Leads	BH9V-W-ND	.86	.78	.77
36	1	6" (152.40mm) Battery Snap Cable	BS6I-ND	.30	.27	.25
		12" (304.8mm) Battery Snap Cable	BS12I-ND	.31	.28	.26
37	1	6" (152.40mm) Heavy Duty Battery Snap Cable	BS6I-HD-ND	.33	.31	.28
		12" (304.8mm) Heavy Duty Battery Snap Cable	BS12I-HD-24AWG-ND	.33	.30	.28
38	1	6" (152.40mm) I-Style Molded Case Battery Snap Cable	BS6I-MC-ND	.41	.38	.34
		12" (304.8mm) I-Style Molded Case Battery Snap Cable	BS12I-MC-ND	.44	.40	.36
39	1	PC Mount, Printed Circuit Board Type with Contacts	BC9VPC-ND	1.39	1.11	1.00
Printed Circuit Snap-Ons (off board battery mount) — RoHS Compliant						
40	—	9-Volt Female Snap-on	BSPCF-ND	.24	.22	.15
41	—	9-Volt Male Snap-on	BSPCM-ND	.19	.18	.12

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Cigarette Lighter Auto Power

Specifications: • 21mm (Inside Diameter) • Auto Plugs: (Fuse 3AG Style) • The length of the cord shown in each item is measured from the welding point

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100
Auto Power Plug — RoHS Compliant					
42	ABS Fused Auto Plug with LED, Black	APP-001-ND	2.20	1.98	1.95
	ABS Fused Auto Plug with LED, Gray	APP-002-ND	2.20	1.98	1.95
	ABS Fused Auto Plug with No LED, Black	APP-003-ND	2.01	1.81	1.79
43	Auto Locking Plug with LED, Black	AP121-ND	3.63	3.28	2.88
44	Auto Locking Socket, Black (use with AP121-ND)	AS212-ND	2.66	2.40	2.20
Auto Power Assemblies					
45	Cigarette Inline Socket, Plastic	ZA2010-ND◆	1.11	1.00	.99
—	Red Rubber Cap for Sockets	ZA2081-R-ND	.54	.49	.49
46	12' (3.66 meters) Coil Cord Assembly with 5A Fused Plug with LED	ZA5070-ND◆	6.31	5.69	5.61
47	12' (3.66 meters) 18AWG Cord Assembly with 10A Fused Plug with LED	ZA5071-ND◆	6.31	5.69	5.61
48	8" (203.2mm) 18AWG Cord Assembly with 10A Fused Plug with LED	ZA5072-ND	6.01	5.42	5.34
49	6' (1.83 meters) 18AWG Cord, 2.1mm x 5.5mm DC Plug with 5A Fused Plug with LED	ZA5073-ND◆	3.74	3.37	3.32
	6' (1.83 meters) 18AWG Cord, 2.5mm x 5.5mm DC Plug with 5A Fused Plug with LED	ZA5073-2.5-ND◆	5.47	4.98	3.50
50	12' (3.66 meters) Cord, 2.1mm x 5.5mm DC Plug, with 5A Fused Plug with LED	ZA5074-ND◆	5.94	5.35	5.27
51	1' (0.30 meters) UL2468 Cord, Lead Acid Clip, with 2A Fused Plug with LED	ZA5076-ND	4.19	3.78	3.72
52	6' (1.83 meters) Cord, 2.1mm x 5.5mm Rt. Angle DC Plug with 3A Fused Plug with LED	ZA5077-ND◆	3.74	3.37	3.32
53	6' (1.83 meters) Cord, Rotary Plug, with Lighted Switch and 5A Fuse	BK-5072-ND◆	7.81	5.35	5.05
54	8" (203.2mm), UL2468 Cord, Lead Acid Clip, 2.1mm x 5.5mm DC Plug	ZA5350-ND◆	2.82	2.54	2.51
	8" (203.2mm), UL2468 Cord, Lead Acid Clip, No Connector	ZA5350-B-ND◆	2.46	2.22	2.19
55	Panel Mount, Power Socket, Insert Lock	ZA2070-ND◆	3.63	3.24	2.93
	Panel Mount, Power Socket, Screw Lock	ZA2060-ND◆	2.81	2.51	2.27
56	Power Plug Splitter, One Male Plug-Two Receptacle Sockets with LED	ZA5018-ND	5.91	5.34	5.25

◆ ***RoHS Compliant***

"Budget Balancers" Battery Holders

Fig. 1
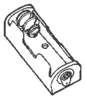
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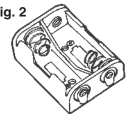
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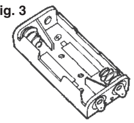
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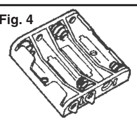
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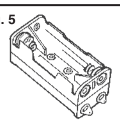
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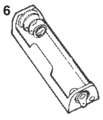
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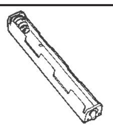
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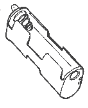
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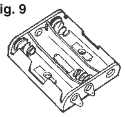
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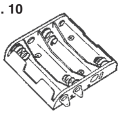
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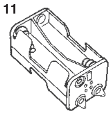
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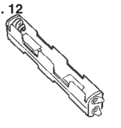
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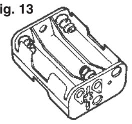
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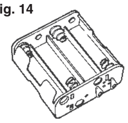
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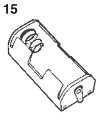
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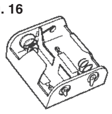
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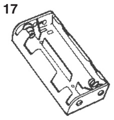
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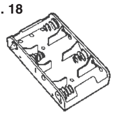
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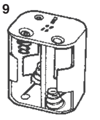
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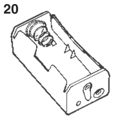
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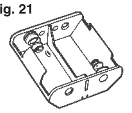
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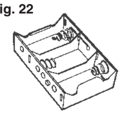
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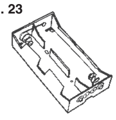
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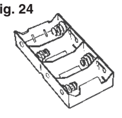

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	100
"N" Cell Holders — RoHS Compliant						
1	1	Solder Tabs	BHNL-ND	.55	.50	.46
2	2	Solder Tabs	BH2NL-ND	.59	.54	.50
"AAA" Cell Holders						
3	2	Solder Tabs	BC2AAAL-ND◆	.59	.54	.50
4	4	Solder Tabs	BC4AAAL-ND	1.41	1.27	1.18
5	4	Solder Tabs	BH24AAAL-ND	.96	.87	.80
3	2	6" Wire Leads	BC2AAAW-ND†	.67	.60	.56
4	4	6" Wire Leads	BC4AAAW-ND†	1.44	1.30	1.20
5	4	6" Wire Leads	BH24AAAW-ND†	.98	.89	.82
"AA" Cell Holders						
6	1	Solder Tabs	BCAAL-ND◆	.54	.49	.46
7	2	Solder Tabs	BC12AAL-ND◆	.57	.52	.48
8	2	Solder Tabs	BC22AAL-ND◆	.55	.50	.46
9	3	Solder Tabs	BC3AAL-ND◆	.90	.82	.76
10	4	Solder Tabs	BC4AAL-ND◆	.99	.89	.82
11	4	Solder Tabs	BH24AAL-ND◆	.82	.75	.69
12	4	Solder Tabs	BH14AAL-ND◆	.69	.62	.58
13	6	Solder Tabs	BH26AAL-ND◆	1.18	1.06	.98
14	8	Solder Tabs	BH48AAL-ND	1.41	1.27	1.18
8	2	6" Wire Leads	BC22AAW-ND†	.57	.52	.48
9	3	6" Wire Leads	BC3AAW-ND†	.94	.85	.78
10	4	6" Wire Leads	BC4AAW-ND†	.98	.89	.82
11	4	6" Wire Leads	BH24AAW-ND†	.90	.82	.76
12	4	6" Wire Leads	BH14AAW-ND†	.77	.70	.64
13	6	6" Wire Leads	BH26AAW-ND†	1.21	1.10	1.02
14	8	6" Wire Leads	BH48AAW-ND†	1.44	1.30	1.20

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	100
"C" Cell Holders — RoHS Compliant						
15	1	Solder Tabs	BHCL-ND	.63	.57	.52
16	2	Solder Tabs	BH2CL-ND	1.21	1.10	1.01
17	4	Solder Tabs	BH24CL-ND	1.35	1.22	1.13
18	4	Solder Tabs	BH4CL-ND	1.58	1.43	1.32
19	4	Solder Tabs	BH22CL-ND	1.70	1.54	1.42
"D" Cell Holders — RoHS Compliant						
20	1	Solder Tabs	BHDL-ND	.71	.65	.60
21	2	Solder Tabs	BH2DL-ND	1.35	1.22	1.13
22	3	Solder Tabs	BH3DL-ND	1.66	1.50	1.38
23	4	Solder Tabs	BH24DL-ND	1.66	1.50	1.38
24	4	Solder Tabs	BH4DL-ND	2.07	1.87	1.73

◆ ***RoHS Compliant*** † Stripped-Tinned 3/16" (4.78mm)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Battery Clips, Contacts and Holders

Dimensions in Inches

Fig. 1

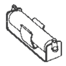

Fig. 2

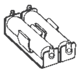

Fig. 3

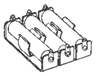

Fig. 4

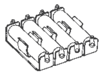

Fig. 5

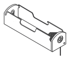

Fig. 6

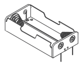

Fig. 7

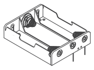

Fig. 8

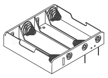

Fig. 9

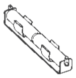

Fig. 10

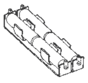

Fig. 11

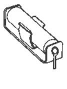

Fig. 12

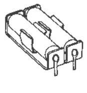

Fig. 13

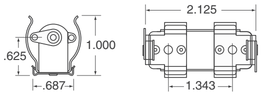

Fig. 14

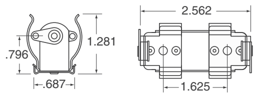

Fig. 15

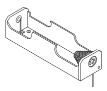

Fig. 16

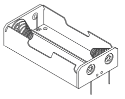

Fig. 17

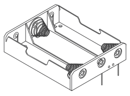

Fig. 18

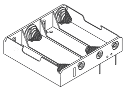

Fig. 19

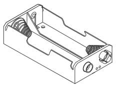

Fig. 20

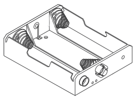

Fig. 21

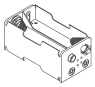

Fig. 22

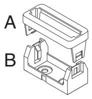

Fig. 23

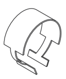

Fig. 24

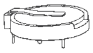

Fig. 25

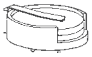

Fig. 26

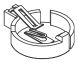

Fig. 27

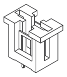

Compact

Fig. 28

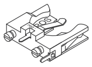

Slimline

Fig. 29

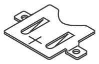

Fig. 30

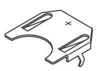

Fig. 31 Uses CR2032 Coin Cell Lithium Batteries

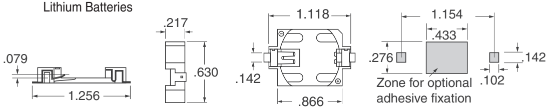

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100
"N" Aluminum Cell Holders					
1	1 Cell	154K-ND◆	2.10	1.95	1.14
2	2 Cell	155K-ND◆	3.71	3.46	2.34
3	3 Cell	156K-ND	7.71	7.20	4.65
"AAA" Aluminum Cell Holders					
1	1 Cell	137K-ND◆	2.37	2.20	1.38
2	2 Cell	138K-ND	3.88	3.62	2.53
3	3 Cell	169K-ND	5.68	5.30	3.42
4	4 Cell	170K-ND◆	7.77	7.26	4.71
"AAA" Plastic Cell Holders - PC Mount — RoHS Compliant					
5	1 Cell	2466K-ND	1.13	1.00	.81
6	2 Cell	2468K-ND	1.18	1.04	.84
7	3 Cell	2479K-ND	1.38	1.29	1.12
8	4 Cell	2481K-ND	1.52	1.41	1.24
"AAA" Plastic Cell Holders - 6" Wire Leads — RoHS Compliant					
5	1 Cell	2467K-ND	1.13	1.00	.81
6	2 Cell	2469K-ND	1.18	1.04	.84
7	3 Cell	2480K-ND	1.38	1.29	1.12
8	4 Cell	2482K-ND	1.52	1.41	1.24
"AA" Aluminum Cell Holders					
1	1 Cell	139K-ND◆	1.66	1.55	.90
2	2 Cell	140K-ND◆	3.10	2.87	1.81
2	2 Cell	146K-ND◆	3.64	3.33	1.97
3	3 Cell	171K-ND◆	4.55	4.25	2.74
4	4 Cell	182K-ND◆	6.46	6.03	4.08
9	2 Cell	189K-ND	2.61	2.42	1.58
10	4 Cell	192K-ND◆	4.38	4.09	2.61
11	1 Cell	2222K-ND◆	2.08	1.93	1.20
12	2 Cell	2223K-ND◆	3.30	3.05	2.02
"AA" Plastic Cell Holders - PC Mount — RoHS Compliant					
15	1 Cell	2460K-ND	1.13	1.00	.81
16	2 Cell	2462K-ND	1.18	1.04	.84
17	3 Cell	2464K-ND	1.38	1.29	1.12
18	4 Cell	2477K-ND	1.52	1.41	1.24
"AA" Plastic Cell Holders - 6" Wire Leads — RoHS Compliant					
15	1 Cell	2461K-ND	1.13	1.00	.81
16	2 Cell	2463K-ND	1.18	1.04	.84
17	3 Cell	2465K-ND	1.38	1.29	1.12
18	4 Cell	2478K-ND	1.52	1.41	1.24
"AA" Plastic Cell Holders - with Snap-On Connector — RoHS Compliant					
19	2 Cell	2474K-ND	1.18	1.04	.84
20	3 Cell	2475K-ND	1.38	1.29	1.12
21	4 Cell	2476K-ND	1.52	1.41	1.24
Cell Lithium - Plastic Holders - PC Mount — RoHS Compliant					
22B	1/2 AA	108KK-ND	1.60	1.49	.82
22B	AA	1028K-ND	1.60	1.49	.82
22B	2/3 A	1029K-ND	1.60	1.49	.82
Lithium - Plastic Retaining Cover — RoHS Compliant					
22A	1/2 AA	108CK-ND	.48	.46	.44
22A	AA	1028CK-ND	.71	.63	.51
23	2/3 A	1029CK-ND	.68	.60	.49
"C" Aluminum Cell Holders†					
1	1 Cell	173K-ND◆	2.03	1.89	1.10
2	2 Cell	174K-ND◆	3.29	3.04	1.92
3	3 Cell	187K-ND	6.87	5.15	4.50
9	2 Cell	185K-ND	2.89	2.67	1.69
10	4 Cell	196K-ND◆	5.09	4.75	3.32
10	4 Cell	151K-ND◆	6.26	5.73	3.50
11	1 Cell	2224K-ND◆	2.13	1.98	1.15
12	2 Cell	2225K-ND	3.53	3.26	2.06
"C" Steel Cell Holders† — RoHS Compliant					
13	1 Cell	2173K-ND	2.80	2.56	1.52
"D" Aluminum Cell Holders†					
1	1 Cell	175K-ND◆	2.18	2.02	1.24
2	2 Cell	176K-ND◆	3.84	3.55	2.23
3	3 Cell	190-ND◆	7.80	7.28	4.72
9	2 Cell	186K-ND	3.29	3.04	1.92
10	4 Cell	200K-ND◆	6.15	5.74	4.05
11	1 Cell	2226K-ND◆	2.73	2.53	1.57
12	2 Cell	2227K-ND	3.99	3.73	2.52
"D" Steel Cell Holders† — RoHS Compliant					
14	1 Cell	2175K-ND	3.41	3.12	1.85
12mm Coin Cell Lithium "PC" Holders — RoHS Compliant					
24	1 Cell	500K-ND	1.32	1.16	.74
25	2 Cell	501K-ND	2.08	1.94	1.71
16mm Coin Cell Lithium "PC" Holders — RoHS Compliant					
24	1 Cell	502KE-ND	1.64	1.53	.96
20mm Coin Cell Lithium "PC" Holders — RoHS Compliant					
24	1 Cell	106K-ND	1.64	1.53	.96
24	1 Cell	103K-ND	1.64	1.53	.96
25	2 Cell	1026K-ND	1.80	1.68	1.06
23mm Coin Cell Lithium "PC" Holders — RoHS Compliant					
24	1 Cell	107K-ND	1.64	1.53	.96
24	1 Cell	104K-ND	1.64	1.50	.96
25	2 Cell	1027K-ND	1.80	1.68	1.06
24mm Coin Cell Lithium "PC" Holders — RoHS Compliant					
24	1 Cell	105K-ND	1.64	1.53	.96
24	1 Cell	1025-7K-ND	1.80	1.68	1.06
25	2 Cell	1025K-ND	1.80	1.68	1.06
20mm Coin Cell Holder — RoHS Compliant					
26	1 Cell	1066K-ND	1.64	1.53	.96
Vertical 20mm Coin Cell Holder — RoHS Compliant					
27	1 Cell	1067K-ND	1.83	1.70	1.16
28	1 Cell	1065K-ND	1.83	1.70	1.16
Surface Mount Coin Cell Retainer Contacts — RoHS Compliant					
29	12mm	3000K-ND	.57	.50	.29
29	20mm	3002K-ND	.58	.51	.30
29	23mm	3004K-ND	.59	.52	.31
29	24mm	3006K-ND	.64	.56	.32
Surface Mount Coin Cell Retainer Contacts - Cut Tape — RoHS Compliant					
29	1 Cell, 20mm	3002KCT-ND	.72	.42	.37
29	1 Cell, 24mm	3006KCT-ND	1.09	1.00	.94
Surface Mount Coin Cell Retainer Contacts - Tape & Reel — RoHS Compliant					
29	1 Cell, 20mm	3002KTR-ND		207.01/500	
29	1 Cell, 24mm	3006KTR-ND		276.40/400	
Thru Hole Mount Coin Cell Retainer Contacts — RoHS Compliant					
30	12mm	3001K-ND	.57	.50	.29
30	20mm	3003K-ND	.58	.51	.30

◆ ***RoHS Compliant*** † "C" and "D" cell holders are dual clips only ‡ Figs. 36, 38, 48 and 49 sold by the pair

(Continued)

Battery Clips, Contacts and Holders *(Cont.)*

Dimensions in Inches

Fig. 32

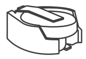

Fig. 33

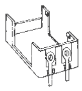

Fig. 34

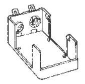

Fig. 35

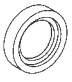

Fig. 36

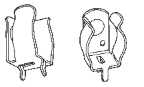

Fig. 37

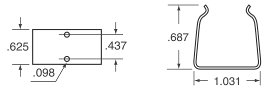

Fig. 38

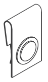

Fig. 39

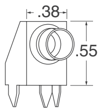

Fig. 40

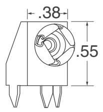

Fig. 41

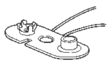

Fig. 42

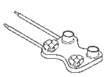

Fig. 43

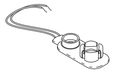

Fig. 44

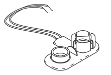

Fig. 45

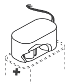

Fig. 46

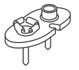

Fig. 47

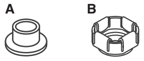

Fig. 48

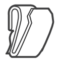

Fig. 49

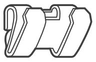

Fig. 50

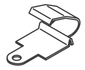

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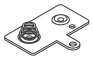

Fig. 52

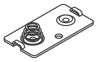

Fig. 53

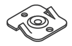

Fig. 54

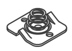

Fig. 55

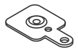

Fig. 56

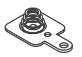

Fig. 57

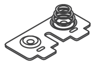

Fig. 58

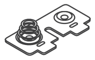

Fig. 59

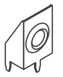

Fig. 60

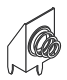

Fig. 61

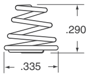

		Digi-Key		Price Each	
Fig.	**Description**	**Part No.**	**1**	**10**	**100**
30	23mm	3005K-ND	.59	.52	.31
30	23mm	3011K-ND	.62	.55	.32
30	24mm	3007K-ND	.64	.56	.32
30	24mm	3009K-ND	.59	.54	.33
Surface Mount Coin Cell Holder - Bulk — RoHS Compliant					
31	1 Cell, 20mm	1060K-ND	1.64	1.53	.96
32	1 Cell, 20mm	1061K-ND	2.05	1.89	1.29
32	2 Cell, 20mm	1062K-ND	2.05	1.89	1.29
32	1 Cell, 23mm	1071K-ND	2.05	1.89	1.29
Surface Mount Coin Cell Holder - Cut Tape — RoHS Compliant					
29	1 Cell, 12mm	3000KCT-ND	.74	.68	.64
Surface Mount Coin Cell Holder - Tape & Reel — RoHS Compliant					
29	1 Cell, 12mm	3000KTR-ND	319.27/1000		
31	1 Cell, 20mm	1060KTR-ND	493.05/500		
32	1 Cell, 20mm	1061KTR-ND	280.30/200		
32	2 Cell, 20mm	1062KTR-ND	280.30/200		
32	1 Cell, 23mm	1071KTR-ND	280.30/200		
9 Volt Plastic Holders — RoHS Compliant					
33	1 Cell	1294K-ND	1.87	1.74	1.03
34	1 Cell	1295K-ND	1.80	1.68	.99
9 Volt Aluminum Holders — RoHS Compliant					
33	1 Cell	1291K-ND	2.95	2.71	1.60
34	1 Cell	1290K-ND	2.82	2.58	1.53
Insulated Polarizing Washers					
35	Red	59K-ND◆	—	.12	.08
35	Black	60K-ND	—	.12	.08
"AAA" Snap-In PC Battery Clip — RoHS Compliant					
36	—	82K-ND‡	.67/2	.32	.17
"AA" Snap-In PC Battery Clip — RoHS Compliant					
36	1 Cell	92K-ND‡	.67/2	.32	.17
"AAA", "N" Surface Mount Battery Clip - Cut Tape — RoHS Compliant					
36	1 Cell	55KCT-ND	.66	.38	.34
"AAA", "N" Surface Mount Battery Clip - Tape & Reel — RoHS Compliant					
36	1 Cell	55KTR-ND	86.81/300		
"9V" Steel Battery Clip — RoHS Compliant					
37	Single	71K-ND	.30	.28	.25
"AAA", "AAAA", "N" Snap-IN Battery Contact — RoHS Compliant					
38	—	238K-ND‡	.36/2	.17	.13
9 Volt "PC" Snap-On Battery (on board battery mount) — RoHS Compliant					
39	Male	593K-ND	.49	.46	.26
40	Female	594K-ND	.55	.49	.31
9 Volt Battery Straps — RoHS Compliant					
41	Single	72K-ND	1.30	1.21	.71
42	Dual	227K-ND	2.86	2.64	1.67
Premium 9 Volt Battery Straps (I-Style) — RoHS Compliant					
43	Single, 4"	2238K-ND	.86	.76	.65
43	Single, 6"	2239K-ND	.88	.78	.66
43	Single,6.5"	83K-ND	1.89	1.73	1.06
43	Single, 8"	2240K-ND	.90	.79	.68
Premium 9 Volt Battery Straps (T-Style) — RoHS Compliant					
44	Single, 4"	2241K-ND	.91	.80	.69
44	Single, 6"	2242K-ND	.93	.82	.70
44	Single, 8"	2243K-ND	.94	.83	.71

		Digi-Key		Price Each	
Fig.	**Description**	**Part No.**	**1**	**10**	**100**
Economy 9 Volt Battery Straps (I-Style) — RoHS Compliant					
43	Single, 4"	232K-ND	.47	.44	.31
43	Single, 6"	233K-ND	.48	.45	.32
43	Single, 8"	234K-ND	.49	.46	.33
Economy 9 Volt Battery Straps (T-Style) — RoHS Compliant					
44	Single, 4"	235K-ND	.51	.48	.34
44	Single, 6"	236K-ND	.49	.43	.35
44	Single, 8"	237K-ND	.49	.44	.36
Shielded 9 Volt Battery Straps (I-Style) — RoHS Compliant					
45	Single, 4"	84-4K-ND	.51	.45	.37
45	Single, 6"	84-6K-ND	.53	.47	.38
45	Single, 8"	84-8K-ND	.54	.48	.39
Shielded 9 Volt Battery Straps (T-Style) — RoHS Compliant					
45	Single, 4"	81-4K-ND	.51	.45	.37
45	Single, 6"	81-6K-ND	.53	.47	.38
45	Single, 8"	81-8K-ND	.54	.48	.39
Vertical "9V" PC Snap-On Connector — RoHS Compliant					
46	—	968K-ND	.95	.83	.71
"9V" Battery Snap-Ons — RoHS Compliant					
47A	Stud	261K-ND	.08	.07	.06
47B	Socket	269K-ND	.17	.16	.14
Single "AA" Cell Contacts — RoHS Compliant					
48	—	209K-ND‡	.52/2	.25	.18
Dual "AA" Cell Contacts — RoHS Compliant					
49	—	210K-ND‡	.79/2	.37	.26
"A" ,"AA", "9V" Surface Mount Cell Contacts - Cut Tape — RoHS Compliant					
48	—	5231KCT-ND	.67	.62	.58
"A" ,"AA", "9V" Surface Mount Cell Contacts - Tape & Reel — RoHS Compliant					
48	—	5231KTR-ND	76.37/250		
"AAA" Snap-On Contacts — RoHS Compliant					
48	—	204K-ND‡	.52/2	.25	.18
49	—	202K-ND‡	.79/2	.37	.26
"A", "AA", "9V" Spring Contacts — RoHS Compliant					
50	—	5209K-ND	—	.44	.36
"A", "AA" Battery Contacts — RoHS Compliant					
51	Dual w/tabs	5211K-ND	—	.36	.26
52	Dual	5212K-ND	—	.44	.31
53	(+) Button	5224K-ND	—	.14	.10
54	(-) Spring	5202K-ND	—	.27	.19
55	(+) Button w/tabs	5223K-ND	—	.14	.10
56	(-) Spring w/tabs	5201K-ND	—	.23	.17
"AAA", "AAAA", "N" Battery Contacts — RoHS Compliant					
53	(+) Button	5225K-ND	—	.10	.08
54	(-) Spring	5203K-ND	—	.36	.26
55	(+) Button w/tabs	5226K-ND	—	.14	.10
56	(-) Spring w/tabs	5204K-ND	—	.23	.17
57	Dual Left Side	5214K-ND	—	.32	.23
58	Dual Right Side	5213K-ND	—	.32	.23
"A", "AA", "C", "D" Battery Contacts — RoHS Compliant					
61	Spring	211K-ND	.08	.07	.06
"A" PC Contacts — RoHS Compliant					
59	(+) Button	595K-ND	—	.18	.13
60	(-) Spring	628K-ND	—	.81	.44
"AA", "AAA", "N" PC Contacts — RoHS Compliant					
59	(+) Button	637K-ND	—	.17	.12
60	(-) Spring	629K-ND	—	.81	.44

◆ ***RoHS Compliant*** † "C" and "D" cell holders are dual clips only ‡ Figs. 36, 38, 48 and 49 sold by the pair

COMAIR ROTRON

DC Brushless and Tachometer Fans, Blowers and Impellers

DC Fans - Motor: • Brushless electronic commutation provided by dependable solid-state circuitry • 100% dielectric tested at 600 VAC/1 second/400 microamps maximum leakage • Polarity protected

Fig. 1

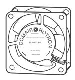

Fig. 2

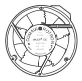

Fig. 3

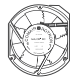

Fig. 4

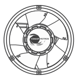

Fig. 5

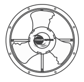

Fig. 6

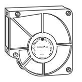

Fig. 7

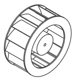

Fig.	Family	Model	Dimensions mm	Voltage		Connection Type	Bearing	Power (Watts)	Running Current	RPM	CFM	Life Expectancy	Digi-Key Part No.	Price Each		Comair Rotron Part No.	Finger Guards	Price Each
				Nom.	Range									1	25			
Brushless DC Fans																		
1	Gryphon	GDA2510-12BB	25x10	12	6/13.8	Lead Wires	Ball	1.2	.1A	13000	2.67	50,000 hrs. @ 25°C	CR438-ND◆	8.15	7.03	GDA2510-12BB	CR181-ND◆	.54
		GDA4010-12BB	40x10	12	6/13.8	Lead Wires	Ball	1.08	.09A	7000	7.73	50,000 hrs. @ 25°C	CR389-ND◆	6.03	5.20	GDA4010-12BB	CR230-ND◆	.65
		GDA4010-24BB	40x10	24	12/27.6	Lead Wires	Ball	2.16	.09A	7000	7.73	50,000 hrs. @ 25°C	CR390-ND◆	7.47	6.44	GDA4010-24BB	CR230-ND◆	.65
		GDA4020-12BB	40x20	12	6/13.8	Lead Wires	Ball	1.44	.12A	8000	8.73	50,000 hrs. @ 25°C	CR391-ND◆	6.32	5.45	GDA4020-12BB	CR230-ND◆	.65
		GDA4020-24BB	40x20	24	12/27.6	Lead Wires	Ball	1.68	.07A	8000	8.73	50,000 hrs. @ 25°C	CR392-ND◆	6.32	5.45	GDA4020-24BB	CR230-ND◆	.65
		GDA4028-12BB	40x28	12	6/13.8	Lead Wires	Ball	2.4	.2A	8800	11.26	50,000 hrs. @ 25°C	CR393-ND◆	6.32	5.45	GDA4028-12BB	CR230-ND◆	.65
		GDA5210-12BB	52x10	12	6/13.8	Lead Wires	Ball	1.68	.14A	6000	12.27	50,000 hrs. @ 25°C	CR394-ND◆	6.32	5.45	GDA5210-12BB	CR388-ND◆	.59
		GDA6025-12BB	60x25	12	6/13.8	Lead Wires	Ball	1.68	.14A	4000	19.25	50,000 hrs. @ 25°C	CR395-ND◆	6.32	5.45	GDA6025-12BB	CR221-ND◆	.68
		GDA6025-24BB	60x25	24	12/27.6	Lead Wires	Ball	3.36	.14A	4000	19.25	50,000 hrs. @ 25°C	CR396-ND◆	6.32	5.45	GDA6025-24BB	CR221-ND◆	.68
		GDA8025-12BB	80x25	12	6/13.8	Lead Wires	Ball	2.04	.17A	3000	35.48	50,000 hrs. @ 25°C	CR397-ND◆	7.47	6.44	GDA8025-12BB	CR180-ND◆	.93
		GDA8025-24BB	80x25	24	12/27.6	Lead Wires	Ball	3.60	.15A	3000	35.48	50,000 hrs. @ 25°C	CR398-ND◆	7.47	6.44	GDA8025-24BB	CR180-ND◆	.93
		GDA9225-12BB	92x25	12	6/13.8	Lead Wires	Ball	2.76	.23A	2800	55.89	50,000 hrs. @ 25°C	CR399-ND◆	8.05	6.93	GDA9225-12BB	CR230-ND◆	.65
		GDA9225-24BB	92x25	24	12/27.6	Lead Wires	Ball	5.28	.22A	2800	54.63	50,000 hrs. @ 25°C	CR400-ND◆	8.05	6.93	GDA9225-24BB	CR220-ND◆	.77
		GDA1225-12BB	120x25	12	6/13.8	Lead Wires	Ball	4.8	.40A	2400	69.36	50,000 hrs. @ 25°C	CR401-ND◆	9.31	8.02	GDA1225-12BB	CR210-ND◆	1.72
		GDA1225-24BB	120x25	24	12/27.6	Lead Wires	Ball	8.4	.35A	2400	69.36	50,000 hrs. @ 25°C	CR402-ND◆	9.31	8.02	GDA1225-24BB	CR210-ND◆	1.72
		GDA1238-12BB	120x38	12	6/13.8	Lead Wires	Ball	7.2	.60A	3000	128.27	50,000 hrs. @ 25°C	CR403-ND◆	14.27	12.30	GDA1238-12BB	CR210-ND◆	1.72
		GDA1238-24BB	120x38	24	12/27.6	Lead Wires	Ball	14.4	.60A	3000	126.67	50,000 hrs. @ 25°C	CR404-ND◆	14.27	12.30	GDA1238-24BB	CR210-ND◆	1.72
		GDA1238-48BB	120x38	48	24/55.2	Lead Wires	Ball	16.8	.35A	3000	128.27	50,000 hrs. @ 25°C	CR405-ND◆	15.05	12.96	GDA1238-48BB	CR210-ND◆	1.72
	Flight LT 25,40,52	CR0212LB-G50	25x10	12	6/14	Lead Wires	Ball	0.8	70mA	10000	1.40	50,000 hrs. @ 25°C	CR011-ND◆	18.18	15.68	032602	CR181-ND◆	.54
		CR0412HB-G70	40x10	12	6/14	Lead Wires	Ball	1.2	100mA	6000	6.80	50,000 hrs. @ 25°C	CR015-ND◆	12.67	10.93	032608	CR230-ND◆	.65
		CR0412HB-C50	40x20	12	6/14	Lead Wires	Ball	1.4	130mA	8500	10.80	50,000 hrs. @ 25°C	CR016-ND◆	12.67	10.93	032622	CR230-ND◆	.65
		CR0424HB-C50	40x20	24	21.6/26.4	Lead Wires	Ball	1.8	75mA	8500	10.8	50,000 hrs. @ 25°C	CR360-ND◆	12.67	10.93	032628	CR230-ND◆	.65
		CR0512HB-D71	52x15	12	6/14	Lead Wires	Ball	1.2	100mA	4600	12.00	50,000 hrs. @ 25°C	CR022-ND◆	13.14	11.33	032660	CR388-ND◆	.59
	Flight II 60	FS12B3	60x25	12	6/14	Lead Wires	Ball	2.5	210mA	5000	18	60,000 hrs. @ 25°C	CR001-ND◆	35.35	28.04	031156	CR221-ND◆	.68
		FS24B3	60x25	24	12/28	Lead Wires	Ball	1.9	80mA	5000	18	60,000 hrs. @ 25°C	CR002-ND◆	37.67	29.88	031157	CR221-ND◆	.68
		FS12H3	60x25	12	6/14	Lead Wires	Ball	1.0	84mA	3500	12	60,000 hrs. @ 40°C	CR003-ND	35.67	28.29	031158	CR221-ND◆	.68
		FS24H3	60x25	24	12/28	Lead Wires	Ball	1.1	46mA	3500	12	60,000 hrs. @ 25°C	CR004-ND◆	45.56	36.14	031159	CR221-ND◆	.68
		FS05B3	60x25	5	4.5/5.5	Lead Wires	Ball	2.0	400mA	5000	18	60,000 hrs. @ 25°C	CR346-ND◆	25.20	21.70	031963	CR221-ND◆	.68
		FS05H3	60x25	5	4.5/5.5	Lead Wires	Ball	1.0	190mA	3500	12	60,000 hrs. @ 25°C	CR347-ND◆	22.72	19.57	031765	CR221-ND◆	.68
		FS48K3	60x25	48	24/56	Lead Wires	Ball	4.0	80mA	5930	23	60,000 hrs. @ 25°C	CR348-ND◆	28.28	24.36	032859	CR221-ND◆	.68
	Flight LT 60	CR0612HB-D71GL	60x15	12	6/14	Lead Wires	Ball	1.6	130mA	4500	16.60	50,000 hrs. @ 25°C	CR023-ND◆	13.57	11.70	032686	CR221-ND◆	.68
		CR0612HB-A70GL	60x25	12	6/14	Lead Wires	Ball	2.8	230mA	4500	23.20	50,000 hrs. @ 25°C	CR024-ND◆	13.57	11.70	032704	CR221-ND◆	.68
		CR0624HB-A70GL	60x25	24	12/28	Lead Wires	Ball	3.6	150mA	4500	23.20	50,000 hrs. @ 25°C	CR026-ND◆	13.57	11.70	032710	CR221-ND◆	.68
	Flight II 80	FE12B3	80x25	12	6/14	Lead Wires	Ball	2.0	165mA	3600	37	60,000 hrs. @ 25°C	CR005-ND◆	35.99	28.55	031162	CR180-ND◆	.93
		FE24B3	80x25	24	12/28	Lead Wires	Ball	2.0	87mA	3600	37	60,000 hrs. @ 25°C	CR006-ND◆	35.99	28.55	031163	CR180-ND◆	.93
		FE12H3	80x25	12	6/14	Lead Wires	Ball	1.0	89mA	2700	27	60,000 hrs. @ 25°C	CR007-ND◆	37.06	29.40	031164	CR180-ND◆	.93
		FE24H3	80x25	24	12/28	Lead Wires	Ball	1.2	48mA	2700	27	60,000 hrs. @ 25°C	CR008-ND◆	37.96	30.11	031165	CR180-ND◆	.93
	Flight LT 80	CR0812HB-A70GL	80x25	12	6/14	Lead Wires	Ball	3.0	250mA	3010	38.60	50,000 hrs. @ 25°C	CR030-ND◆	13.92	12.00	032736	CR180-ND◆	.93
		CR0812MB-A70GL	80x25	12	6/14	Lead Wires	Ball	1.8	150mA	2440	31.40	50,000 hrs. @ 25°C	CR031-ND◆	13.92	12.00	032738	CR180-ND◆	.93
		CR0824HB-A70GL	80x25	24	12/28	Lead Wires	Ball	3.8	160mA	3010	38.60	50,000 hrs. @ 25°C	CR032-ND◆	13.92	12.00	032744	CR180-ND◆	.93
	Sprint	ST12A3	80x32	12	6/14	Lead Wires	Sleeve	3.4	280mA	3400	33	55,000 hrs. @ 40°C	CR009-ND◆	20.81	17.92	032107	CR180-ND◆	.93
		ST24A3	80x32	24	12/28	Lead Wires	Sleeve	3.3	140mA	3400	33	55,000 hrs. @ 40°C	CR012-ND◆	21.22	18.28	032127	CR180-ND◆	.93
		ST12B3	80x32	12	6/14	Lead Wires	Ball	3.4	280mA	3400	33	78,000 hrs. @ 40°C	CR014-ND◆	20.61	17.75	030615	CR180-ND◆	.93
		ST24B3	80x32	24	12/28	Lead Wires	Ball	3.3	140mA	3400	33	78,000 hrs. @ 40°C	CR017-ND◆	21.22	18.28	030616	CR180-ND◆	.93
		ST05B3	80x32	5	4.5/5.5	Lead Wires	Ball	2.3	460mA	3400	33	78,000 hrs. @ 40°C	CR353-ND◆	29.23	25.18	030829	CR180-ND◆	.93
		ST12Z3	80x32	12	6/14	Lead Wires	Ball	6.2	520mA	4700	45	78,000 hrs. @ 40°C	CR354-ND◆	26.35	22.70	039067	CR180-ND◆	.93
	Sprite	SD12B1	80x42	12	6/14	Lead Wires	Ball	3.0	250mA	3500	35	80,000 hrs. @ 40°C	CR019-ND◆	28.42	24.77	028933	CR180-ND◆	.93
		SD12B2	80x42	12	6/14	Terminal	Ball	3.0	250mA	3500	35	80,000 hrs. @ 40°C	CR027-ND◆	29.45	25.67	032001	CR180-ND◆	.93
		SD24B1	80x42	24	12/28	Lead Wires	Ball	3.0	130mA	3500	35	83,000 hrs. @ 40°C	CR020-ND◆	28.79	25.09	028934	CR180-ND◆	.93
		SD48B1	80x42	48	24/56	Lead Wires	Ball	3.0	60mA	3500	35	83,000 hrs. @ 40°C	CR021-ND◆	29.45	25.67	028935	CR180-ND◆	.93
		SD48B2	80x42	48	24/56	Terminal	Ball	3.0	60mA	3500	35	83,000 hrs. @ 40°C	CR236-ND◆	29.45	25.67	032003	CR180-ND◆	.93
	Flight II 90	FN12B3	92x25	12	6/14	Lead Wires	Ball	2.4	202mA	2800	45	60,000 hrs. @ 25°C	CR034-ND◆	39.38	31.24	031168	CR220-ND◆	.77
		FN24B3	92x25	24	12/28	Lead Wires	Ball	2.4	100mA	2800	45	60,000 hrs. @ 25°C	CR237-ND◆	26.42	21.80	031169	CR220-ND◆	.77
		FN12K3	92x25	12	6/14	Lead Wires	Ball	5.1	423mA	3850	60	60,000 hrs. @ 25°C	CR349-ND◆	25.88	22.29	031595	CR220-ND◆	.77
		FN24K3	92x25	24	12/28	Lead Wires	Ball	5.5	230mA	3800	60	60,000 hrs. @ 25°C	CR359-ND◆	25.88	22.29	031406	CR220-ND◆	.77
		FN48B3	92x25	48	24/56	Lead Wires	Ball	2.9	65mA	2800	45	60,000 hrs. @ 25°C	CR350-ND◆	23.78	20.48	031392	CR220-ND◆	.77
	Flight LT 90	CR0912HB-A70GL	92x25	12	6/14	Lead Wires	Ball	4.3	360mA	3000	48.40	50,000 hrs. @ 25°C	CR035-ND◆	14.47	12.48	032760	CR220-ND◆	.77
		CR0924HB-A70GL	92x25	24	12/28	Lead Wires	Ball	4.8	200mA	3000	48.40	50,000 hrs. @ 25°C	CR037-ND◆	14.47	12.48	032768	CR220-ND◆	.77
	Flight II 120	FT12B3	120x25	12	6/14	Lead Wires	Ball	4.3	360mA	2950	86	60,000 hrs. @ 25°C	CR038-ND◆	39.38	31.24	031174	CR210-ND◆	1.72
		FT24B3	120x25	24	12/28	Lead Wires	Ball	4.3	180mA	2950	86	60,000 hrs. @ 25°C	CR039-ND◆	37.64	29.86	031175	CR210-ND◆	1.72
	Muffin	MC12A3	120x32	12	6/14	Lead Wires	Sleeve	7.9	660mA	3700	102	50,000 hrs. @ 40°C	CR042-ND◆	23.49	20.23	032207	CR210-ND◆	1.72
		MC24A3	120x32	24	12/28	Lead Wires	Sleeve	6.7	280mA	3700	102	50,000 hrs. @ 40°C	CR046-ND◆	23.49	20.23	032208	CR210-ND◆	1.72
		MC12E3	120x32	12	6/14	Lead Wires	Sleeve	2.2	180mA	2150	58	50,000 hrs. @ 40°C	CR043-ND◆	23.49	20.23	032140	CR210-ND◆	1.72
		MC24E3	120x32	24	12/28	Lead Wires	Sleeve	2.1	85mA	2150	58	50,000 hrs. @ 40°C	CR047-ND◆	22.72	19.57	032142	CR210-ND◆	1.72
		MC12B3	120x32	12	6/14	Lead Wires	Ball	7.9	660mA	3700	102	75,000 hrs. @ 40°C	CR051-ND◆	22.72	19.57	032489	CR210-ND◆	1.72
		MC24B3	120x32	24	12/28	Lead Wires	Ball	5.5	230mA	3700	102	75,000 hrs. @ 40°C	CR055-ND◆	22.72	19.57	030572	CR210-ND◆	1.72
		MC48B3	120x32	48	22/56	Lead Wires	Ball	8.4	180mA	3700	102	78,000 hrs. @ 40°C	CR240-ND◆	22.73	19.58	030573	CR210-ND◆	1.72
		MC24H3	120x32	24	12/28	Lead Wires	Ball	4.8	200mA	2850	80	78,000 hrs. @ 40°C	CR241-ND◆	22.72	19.57	030577	CR210-ND◆	1.72
		MC24K3	120x32	24	12/28	Lead Wires	Ball	10.6	440mA	4200	118	78,000 hrs. @ 40°C	CR351-ND◆	24.64	21.22	031618	CR210-ND◆	1.72
	Muffin XL	MD24B1	119x39	24	12/28	Lead Wires	Ball	6.0	250mA	3100	110	83,000 hrs. @ 40°C	CR070-ND◆†	46.34	42.08	028866	CR210-ND◆	1.72
		MD12B2	119x39	12	6/14	Terminal	Ball	6.0	500mA	3100	110	83,000 hrs. @ 40°C	CR072-ND◆†	46.34	42.08	028868	CR210-ND◆	1.72
		MD24B2	119x39	24	12/28	Terminal	Ball	6.0	250mA	3100	110	83,000 hrs. @ 40°C	CR073-ND◆†	46.34	42.08	028869	CR210-ND◆	1.72
		MD48B2	119x39	48	24/56	Terminal	Ball	6.0	125mA	3100	110	83,000 hrs. @ 40°C	CR074-ND◆†	46.34	42.08	028870	CR210-ND◆	1.72
		MD12B1	119x39	12	6/14	Lead Wires	Ball	6.0	500mA	3100	110	83,000 hrs. @ 40°C	CR069-ND◆†	46.34	42.08	028865	CR210-ND◆	1.72
		MD48B1	119x39	48	24/56	Lead Wires	Ball	6.0	125mA	3100	110	83,000 hrs. @ 40°C	CR071-ND◆†	46.34	42.08	028867	CR210-ND◆	1.72
	Whisper XL	WD12C3	119x39	12	6/14	Lead Wires	Ball	2.4	200mA	2230	75	83,000 hrs. @ 40°C	CR262-ND◆†	48.46	39.98	030715	CR210-ND◆	1.72
		WD24C3	119x39	24	12/28	Lead Wires	Ball	2.4	100mA	2230	75	83,000 hrs. @ 40°C	CR263-ND◆†	48.46	39.98	030717	CR210-ND◆	1.72
		WD12M3	119x39	12	6/14	Lead Wires	Ball	1.2	100mA	1635	55	83,000 hrs. @ 40°C	CR264-ND◆†	48.46	39.98	030723	CR210-ND◆	1.72
		WD24M3	119x39	24	12/28	Lead Wires	Ball	1.2	52mA	1635	55	83,000 hrs. @ 40°C	CR265-ND◆†	49.52	40.86	030725	CR210-ND◆	1.72
	Muffin XP	MS24B3	120x38	24	12/28	Lead Wires	Sleeve	7.0	290mA	3000	110	78,000 hrs. @ 40°C	CR342-ND◆	25.60	22.05	032526	CR210-ND◆	1.72
		MS48B3	120x38	48	24/56	Lead Wires	Sleeve	7.4	150mA	3000	110	78,000 hrs. @ 40°C	CR343-ND◆	25.60	22.05	032527	CR210-ND◆	1.72
	Galaxy	GL12B4	127x38	12	6/14	Terminal	Ball	15.0	1250mA	3250	150	82,500 hrs. @ 50°C	CR266-ND◆†	54.32	44.82	031074	CR200-ND◆	2.51
		GL24B4	127x38	24	12/28	Terminal	Ball	15.0	625mA	3250	150	82,500 hrs. @ 50°C	CR267-ND◆†	57.08	47.10	031075	CR200-ND◆	2.51
		GL48B4	127x38	48	24/56	Terminal	Ball	15.0	310mA	3250	150	82,000 hrs. @ 50°C	CR268-ND◆†	57.08	47.10	031076	CR200-ND◆	2.51
2	Patriot	PQ24B4	172x51	24	12/28	Terminal	Ball	20.3	850mA	3500	235	62,000 hrs. @ 50°C	CR242-ND◆†	74.56	61.52	031084	CR206-ND◆	2.84
		PQ48B4	172x51	48	24/56	Terminal	Ball	20.1	420mA	3500	235	62,000 hrs. @ 50°C	CR243-ND◆†	74.56	61.52	031085	CR206-ND◆	2.84
3	Major Quiet	JQ24B4	172x150x51	24	12/28	Terminal	Ball	20.3	850mA	3500	235	62,000 hrs. @ 50°C	CR291-ND◆†	72.56	62.49	031090	CR196-ND◆	3.02
		JQ48B4	172x150x51	48	24/56	Terminal	Ball	20.1	420mA	3500	235	62,000 hrs. @ 50°C	CR292-ND◆†	72.56	62.49	031091	CR196-ND◆	3.02
		JQ12C4	172x150x51	12	6/14	Terminal	Ball	14.6	1215mA	3000	200	62,000 hrs. @ 50°C	CR293-ND◆†	74.29	63.97	031092	CR196-ND◆	3.02
	Maltese	MT12B3	172x150x55	12	6/14	Lead Wires	Ball	39.6	3A	3400	300	62,000 hrs. @ 50°C	CR297-ND◆†	101.50	87.41	031856	CR196-ND◆	3.02
		MT24B3	172x150x55	24	12/28	Lead Wires	Ball	41.0	1.48A	3400	300	62,000 hrs. @ 50°C	CR298-ND◆†	101.50	87.41	031843	CR196-ND◆	3.02
		MT48B3	172x150x55	48	24/56	Lead Wires	Ball	34.5	.72A	3400	300	62,000 hrs. @ 50°C	CR299-ND◆†	101.50	87.41	031841	CR196-ND◆	3.02
4	Falcon	FD24B3	172x55	24	12/28	Lead Wires	Ball	41.0	1.48A	3400	300	62,000 hrs. @ 50°C	CR295-ND◆†	101.50	87.41	031653	CR196-ND◆	3.02
5	Caravel	CD24B3	254x89	24	12/28	Lead Wires	Ball	29.0	1.2A	1650	550	60,000 hrs. @ 50°C	CR302-ND◆†	92.59	79.74	031573	CR182-ND◆	1.89
		CD48B3	254x89	48	24/56	Lead Wires	Ball	30.2	.63A	1650	550	60,000 hrs. @ 50°C	CR303-ND◆†	94.79	81.63	031767	CR182-ND◆	1.89
Blowers — RoHS Compliant																		
6	Whiffet	WT12B3	80x32	12	6/14	Lead Wires	Ball	5.1	420mA	4050	15	80,000 hrs. @ 25°C	CR304-ND	36.23	31.21	031101	—	—
		WT24B3	80x32	24	12/28	Lead Wires	Ball	5.1	200mA	4050	15	80,000 hrs. @ 25°C	CR305-ND	36.23	31.21	031102	—	—

◆ ***RoHS Compliant*** † Feathered Edge for lower noise. ***Please Note: Custom Fan Cable Assemblies available upon request.*** *(Continued)*

DC Brushless and Tachometer Fans, Blowers and Impellers *(Cont.)*

Fig.	Family	Model	Dimensions mm	Voltage		Connection Type	Bearing	Power (Watts)	Running Current	RPM	CFM	Life Expectancy	Digi-Key Part No.	Price Each		Comair Rotron Part No.	Finger Guards	Price Each
				Nom.	Range									1	25			
6	Biscuit	BD12A3	121x31	12	9/14	Lead Wires	Sleeve	11.0	900mA	3050	25	50,000 hrs. @ 40°C	CR085-ND	37.80	31.19	032176	—	—
		BD24A3	121x31	24	18/28	Lead Wires	Sleeve	11.0	480mA	3050	25	50,000 hrs. @ 40°C	CR086-ND	37.80	31.19	032179	—	—
		BD12B3	121x31	12	6/14	Lead Wires	Ball	11.0	900mA	3050	25	78,000 hrs. @ 40°C	CR247-ND	43.66	36.02	030619	—	—
		BD24B3	121x31	24	12/28	Lead Wires	Ball	11.0	480mA	3050	25	78,000 hrs. @ 40°C	CR248-ND	42.50	35.07	030621	—	—
	Viking	VK12B3	127x41	12	6/14	Lead Wires	Ball	20.0	1670mA	4000	33	83,000 hrs. @ 40°C	CR306-ND	36.90	31.78	031047	—	—
		VK24B3	127x41	24	12/28	Lead Wires	Ball	20.0	830mA	4000	33	83,000 hrs. @ 40°C	CR307-ND	35.75	30.79	031048	—	—
	Spinnaker	SPD24B1	162x41	24	12/28	Lead Wires	Ball	30.0	1300mA	2500	60	62,000 hrs. @ 50°C	CR249-ND	78.50	64.77	032183	—	—
Impellers — RoHS Compliant																		
7	Diplomat	DDF24B1	133x91	24	12/28	Lead Wires	Ball	26.0	1.1A	3400	170	35,000 hrs. @ 50°C	CR289-ND	76.48	65.86	031605	—	—
Tachometer Output DC Fans — RoHS Compliant																		
1	Muffin	MC12B7	120x32	12	6/14	Lead Wires	Ball	7.9	660mA	3700	102	78,000 hrs. @ 40°C	CR339-ND	23.49	20.23	030598	CR210-ND	1.72
		MC24B7	120x32	24	12/28	Lead Wires	Ball	5.5	230mA	3700	102	78,000 hrs. @ 40°C	CR340-ND	25.97	22.37	030599	CR210-ND	1.72
	Muffin XL	MD12B5	119x39	12	6/14	Lead Wires	Ball	6.0	500mA	3100	110	83,000 hrs. @ 40°C	CR344-ND†	41.69	35.90	028885	CR210-ND	1.72
		MD24B5	119x39	24	12/28	Lead Wires	Ball	6.0	250mA	3100	110	83,000 hrs. @ 40°C	CR345-ND†	40.54	34.91	028886	CR210-ND	1.72

◆ ***RoHS Compliant*** † Feathered Edge for lower noise. ***Please Note: Custom Fan Cable Assemblies available upon request.***

DC Brushless and Tachometer/PWM Fans and Blowers – E Series

Specifications: • Operating Temperature: -10°C ~ 70°C • Storage Temperature: -40°C ~ 85°C • Termination: 12” Lead Wires (22 AWG)
Features: • Ball Bearings • Outstanding Airflow

Fig. 1

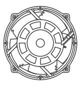

Fig. 2

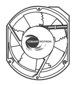

Fig. 3

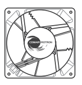

Fig. 4

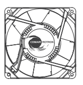

Fig. 5

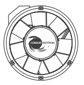

Fig. 6

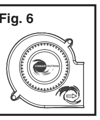

Fig.	Family	Model	Type	Dimensions mm	Oper. Voltage		Power (Watts)	Running Current (A)	RPM	CFM	Noise (dBA)	Life Expectancy	Digi-Key Part No.	Price Each		Comair Rotron Part No.
					Nom.	Range								1	25	
1	Mixtus 7.9”	MFSE24Z3E2	Fan	200 x 70	24	16 ~ 32	96	4.0	4500	515	65.4	70,000 hrs. @ 40°C	CR439-ND	212.01	180.83	041036
		MFSE48Z3E2	Fan	200 x 70	48	24 ~ 72	96	2.0	4500	515	65.4	70,000 hrs. @ 40°C	CR440-ND	212.01	180.83	041037
	Mixtus 6.8”	MFX24Z3E2	Fan	172 x 51	24	16 ~ 32	96	4.0	5050	390	69.1	50,000 hrs. @ 40°C	CR441-ND	131.99	112.58	040799
		MFX48Z3E2	Fan	172 x 51	48	24 ~ 72	96	2.0	5050	390	69.1	50,000 hrs. @ 40°C	CR442-ND	131.99	112.58	041040
2	Major XT	MJD24U3E2	Fan	175 x 150 x 38	24	16 ~ 32	40	1.9	4846	325	63.1	55,000 hrs. @ 40°C	CR444-ND	72.64	59.93	040727
	Major	JQD24U3E2	Fan	172 x 51	24	16 ~ 32	45.6	1.7	4830	330	64	55,000 hrs. @ 40°C	CR449-ND	82.86	68.36	041049
		JQD48U3E2	Fan	172 x 51	48	28 ~ 72	45.6	0.85	4830	330	64	55,000 hrs. @ 40°C	CR450-ND	82.86	68.36	040422
3	Muffin XL	MDD24U3E2	Fan	120 x 39	24	16 ~ 32	38	1.6	6300	210	65	65,000 hrs. @ 40°C	CR445-ND	46.40	38.28	040403
		MDD48U1E2	Fan	120 x 39	48	24 ~ 72	38	0.8	6300	210	65	65,000 hrs. @ 40°C	CR446-ND	49.42	40.78	040775
4	Galaxy	GLD24U3E2	Fan	127 x 38	24	16 ~ 28	38.4	1.50	5200	240	66	80,000 hrs. @ 40°C	CR447-ND	66.24	54.65	040409
		GLD48U3E2	Fan	127 x 38	48	40 ~ 72	38.4	0.72	5200	240	66	80,000 hrs. @ 40°C	CR448-ND	76.94	63.48	040702
5	Patriot	PQD24U3E2	Fan	172 x 51	24	16 ~ 32	45.6	1.70	4830	330	64	55,000 hrs. @ 40°C	CR451-ND	82.86	68.36	040427
		PQD48U3E2	Fan	172 x 51	48	28 ~ 72	45.6	0.85	4830	330	64	55,000 hrs. @ 40°C	CR452-ND	82.86	68.36	041022
6	Ambassador	AMD12K3E2	Blower	97 x 33	12	7 ~ 13.5	15	1.3	4400	36	61	70,000 hrs. @ 40°C	CR464-ND	38.60	30.62	041066
		AMD24Z3E2	Blower	97 x 33	24	16 ~ 28	15	0.8	5000	41	69	70,000 hrs. @ 40°C	CR463-ND	39.53	31.35	041065

DC Brushless and Tachometer Motorized Impellers – Diplomat Series

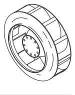

Diplomat series of backward curve impellers can be used for pressurization or evacuation of enclosures **Applications:** • Telecommunication Equipment • Computers • Heating and Air Conditioning • Refrigeration • Heat Exchangers • Power Supplies • Applications with many electronics condensed into a small space which create pressure that resists the passage of air. **Features:** • 12” Leadwires (30.48cm) • TTL Tach Output • Ball Bearings • High Airflow in high pressure environments

Model	Dimensions mm	Voltage Nom. (VDC)	Power (W)	Running Current (A)	RPM	CFM	Termination Wire Leads	Noise (dBA)	Digi-Key Part No.	Price Each		Comair Rotron Part No.
										1	25	
DD402112K1A	101.6 x 55.1	12	33	2.750	5865	115	22 AWG	68	CR410-ND◆	80.12	68.34	039823
DD402124B1R	101.6 x 55.1	24	22.1	.920	4950	100	22 AWG	66.1	CR411-ND◆	80.12	68.34	039821
DD402148B1R	101.6 x 55.1	48	18.2	.380	4950	100	22 AWG	66.1	CR412-ND◆	80.19	68.40	039822
DD402148K1R	101.6 x 55.1	48	39	.810	5865	115	22 AWG	68	CR413-ND◆	73.25	62.49	039825
DD402124K1R	101.6 x 55.1	24	32	1.330	5865	115	22 AWG	68	CR380-ND◆	81.92	69.88	039824
DD523612B1A	133 x 91	12	30	2.500	3400	175	22 AWG	62.9	CR414-ND◆	94.15	80.31	039829
DD523624B1A	133 x 91	24	26	1.100	3400	175	22 AWG	62.9	CR415-ND◆	94.15	80.31	039830
DD523648B1A	133 x 91	48	24	.510	3400	175	22 AWG	62.9	CR416-ND◆	94.15	80.31	039831
DD523612K1A	133 x 91	12	45.6	3.800	3980	200	22 AWG	65.9	CR381-ND◆	94.15	80.31	039832
DD523624K1A	133 x 91	24	38.4	1.600	3980	200	22 AWG	65.9	CR382-ND	99.68	85.84	039833
DD523648K1A	133 x 91	48	31.2	.650	3980	200	22 AWG	65.9	CR383-ND◆	100.22	86.31	039834
DD692112K1A	175 x 53	12	36	3.000	3085	250	22 AWG	67.2	CR417-ND◆	157.86	134.65	039841
DD692124K1A	175 x 53	24	30.7	1.280	3085	250	22 AWG	67.2	CR418-ND◆	157.86	134.65	039842
DD692148K1A	175 x 53	48	31.2	.650	3085	250	22 AWG	67.2	CR419-ND◆	157.86	134.65	039843
DD692712B1A	175 x 69	12	32.5	2.700	2848	300	22 AWG	65	CR420-ND◆	124.93	106.57	039847
DD692712K1A	175 x 69	12	56.4	4.700	3100	350	22 AWG	68.8	CR421-ND◆	124.93	106.57	039850
DD692724B1A	175 x 69	24	30.7	1.270	2848	300	22 AWG	65	CR422-ND◆	124.93	106.57	039848
DD692724K1A	175 x 69	24	44.8	1.867	3100	350	22 AWG	68.8	CR423-ND◆	124.93	106.57	039851
DD692748K1A	175 x 69	48	44.7	.932	3100	350	22 AWG	68.8	CR425-ND◆	124.93	106.57	039852
DD752712B1A	192 x 69	12	25.2	2.100	2020	260	22 AWG	58.2	CR426-ND◆	135.80	115.83	039856
DD752712K1A	192 x 69	12	42	3.500	2230	300	22 AWG	61	CR427-ND◆	135.80	115.83	039859
DD752748B1A	192 x 69	48	27.3	.569	2020	260	22 AWG	58.2	CR429-ND◆	135.80	115.83	039858
DD752748K1A	192 x 69	48	33.6	.700	2230	300	22 AWG	61	CR385-ND	143.78	123.82	039861
DD892824B1A	226 x 71	24	63.7	2.656	2670	500	20 AWG	73	CR430-ND◆	161.14	137.45	039864
DD892848B1A	226 x 71	48	64	1.340	2670	500	20 AWG	73	CR431-ND◆	161.14	137.45	039865
DD892824K1A	226 x 71	24	100	4.200	2750	565	20 AWG	75	CR386-ND	196.83	167.89	039866
DD893924B1T	226 x 99	24	100	4.200	2450	660	20 AWG	73	CR432-ND◆	201.96	172.26	039870
DD893948B1A	226 x 99	48	100	2.100	2450	660	20 AWG	73	CR433-ND◆	256.00	218.36	039871
DD983524B1A	250 x 89	24	100	4.200	2350	700	20 AWG	74	CR434-ND◆	201.08	171.51	039876
DD983548B1A	250 x 89	48	100	2.100	2350	700	20 AWG	74	CR435-ND◆	201.72	172.06	039877
DD114924B1A	280 x 125	24	115	4.800	1800	1000	20 AWG	68.6	CR436-ND◆	207.28	176.80	039882

◆ ***RoHS Compliant***

DC Brushless and Tachometer/PWM Motorized Impellers – Diplomat E Series

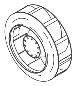

Specifications: • Operating Temperature: -10°C ~ 70°C • Storage Temperature: -40°C ~ 85°C • Termination: 12” Lead Wires (22 AWG)
Features: • Ball Bearings • Outstanding CFM performance in high pressure systems • Soft Start Capability

Model	Dimension mm	Voltage (VDC)		Power (W)	Running Current (A)	RPM	CFM	Noise (dBA)	Digi-Key Part No.	Price Each		Comair Rotron Part No.
		Nom.	Range							1	25	
DDE892824Z1E2	228 x 71	24	16 ~ 32	142	5.20	3530	750	80	CR461-ND	214.91	183.31	041018
DDE892848Z1E2	230 x 71	48	28 ~ 72	142	3.40	3530	750	80	CR462-ND	214.91	183.31	041021
DDE893524Z1E2	227 x 89	24	16 ~ 32	142	5.20	3530	750	78.7	CR459-ND	215.82	184.08	041006
DDE893548Z1E2	227 x 89	48	28 ~ 72	142	2.60	3530	750	78.7	CR460-ND	215.82	184.08	041009
DDE893924Z1E2	226 x 99	24	16 ~ 32	225	9.40	3350	865	80	CR457-ND	217.52	185.53	040994
DDE893948Z1E2	226 x 99	48	28 ~ 72	225	4.70	3350	865	80	CR458-ND	217.52	185.53	040997
DDE983524Z1E2	250 x 89	24	16 ~ 32	216	9.00	3250	1005	80.6	CR455-ND	223.06	190.26	040981
DDE983548Z1E2	250 x 89	48	28 ~ 72	216	4.50	3250	1005	80.6	CR456-ND	223.06	190.26	040984

ThermaPro-V (TPV) DC Fans

Thermal Speed Control: This option uses a thermistor to monitor the temperature and regulate the speed accordingly. The fan will automatically adjust its speed to optimize the airflow to the surrounding temperature. For conditions where power inputs are at a minimum, the fan operates at half speed, providing a minimal amount of CFM to those components still in need of cooling. This reduction in speed results in a significant reduction in noise and power consumption. As the power requirements increase, so does the internal temperature. The fan senses this increase and compensates for it. The fan will continue to increase in speed until it reaches full speed for maximum cooling. The temperature range is 25°C ~ 45°C. Any temperature below 25°C the fan will operate at half speed. Between 25°C and 45°C, the fan RPM changes linearly with temperature. Over 45°C, the fan will maintain full speed operation. Fans equipped with this option use a thermistor. The thermistor can be located on a zip cord and placed on hot spots such as processors, heatsinks, transformers, etc., or can be placed in the hub of the fan to monitor the air traveling through the fan.

Fig. 1

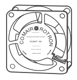

Fig. 2

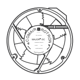

◆ RoHS Compliant

Fig.	Model	Dim. mm	Voltage Nom.	Voltage Range	Bearing	Power (Watts)	Running Current	RPM	CFM	Connection Type	Life Expectancy	Digi-Key Part No.	Price Each 1	Price Each 25	Comair Model No.	Finger Guards	Price Each
1	Muffin	120x32	12	6/14	Sleeve	2.8	230mA	1700	47	Lead Wires	83,000 hrs. @ 40°C	CR269-ND◆	38.88	32.08	MC12T3H	CR210-ND◆	1.72
	Sprint	80x32	48	24/56	Sleeve	2.9	60mA	2100	20	Lead Wires	55,000 hrs. @ 40°C	CR274-ND◆	35.14	29.00	ST48T3H	CR180-ND◆	.93
2	Patriot	127x51	48	24/56	Ball	10.0	210mA	1700	113	Terminal	62,000 hrs. @ 50°C	CR277-ND	74.34	—	PD48T2H	CR206-ND◆	2.84

AC Fans, Blowers & Impellers

AC Fans - Motor:

Two-pole shaded pole induction motor. All 50/60Hz, impedance or thermally protected. 100% dielectric tested at 1800 VAC/1 sec./500 microamps maximum leakage.

Fig. 1

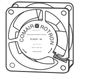

Fig. 2

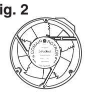

Fig. 3

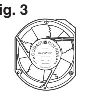

Fig. 4

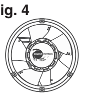

Fig. 5

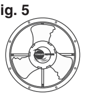

Fig. 6

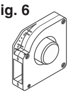

Fig. 7

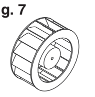

Fig.	Model	Dimensions mm	Voltage Nom.	Voltage Range	Connection Type	Bearing	Power (Watts)	Running Current	RPM	CFM	Life Expectancy	Digi-Key Part No.	Price Each 1	Price Each 25	Comair Model No.	Finger Guards	Price Each
AC Fans																	
1	Gryphon	80x38	115	81/125	Terminal	Ball	14	.20A	3000	29	50,000 hrs. @ 25°C	CR406-ND◆	12.56	10.82	GAA8038-115BB	CR229-ND◆	.70
		80x38	230	161/242	Terminal	Ball	10	.08A	3000	29	50,000 hrs. @ 25°C	CR407-ND◆	12.94	11.15	GAA8038-230BB	CR229-ND◆	.70
		120x38	115	81/125	Terminal	Ball	24	.30A	3000	111	50,000 hrs. @ 25°C	CR408-ND◆	11.99	10.33	GAA1238-115BB	CR210-ND◆	1.72
		120x38	230	161/242	Terminal	Ball	10	.20A	3000	111	50,000 hrs. @ 25°C	CR409-ND◆	12.56	10.82	GAA1238-230BB	CR210-ND◆	1.72
	Sprite	80x42	115	—	Lead Wires	Sleeve	7/6	.08/.07A	2200/2600	23/27	55,000 hrs. @ 40°C	CR093-ND◆	27.90	23.02	SU2E1	CR180-ND◆	.93
		80x42	115	—	Terminal	Sleeve	13/11	.19/.15A	2750/3250	28/34	55,000 hrs. @ 40°C	CR097-ND◆	27.90	23.02	SU2A5	CR180-ND◆	.93
		80x42	115	—	Lead Wires	Sleeve	13/11	.19/.15A	2750/3250	28/34	55,000 hrs. @ 40°C	CR091-ND◆	27.90	23.02	SU2A1	CR180-ND◆	.93
		80x42	115	—	Lead Wires	Ball	13/11	.19/.15A	2750/3250	28/34	73,000 hrs. @ 40°C	CR103-ND◆	30.88	25.48	SU2B1	CR180-ND◆	.93
		80x42	115	—	Terminal	Ball	13/11	.19/.15A	2750/3250	28/34	73,000 hrs. @ 40°C	CR105-ND◆	30.88	25.48	SU2B5	CR180-ND◆	.93
		80x42	115	—	Lead Wires	Sleeve	7/6	.07/.06A	1700/1950	15/18	55,000 hrs. @ 40°C	CR108-ND*	28.54	23.55	SU2C7	CR180-ND◆	.93
		80x42	—	220/230	Lead Wires	Sleeve	14/13	.09/.08A	2750/3250	28/34	55,000 hrs. @ 40°C	CR250-ND*	29.28	24.16	SU3A1	CR180-ND◆	.93
		80x42	115	—	Lead Wires	Sleeve	7/6	.07/.06A	1750/1900	17/20	55,000 hrs. @ 40°C	CR251-ND*	29.28	24.16	SU2C1	CR180-ND◆	.93
		80x42	—	220/230	Terminal	Sleeve	14/13	.09/.08A	2750/3250	28/34	55,000 hrs. @ 40°C	CR252-ND*	28.12	23.20	SU3A5	CR180-ND◆	.93
		80x42	115	—	Terminal	Sleeve	7/6	.07/.06A	1750/1900	17/20	55,000 hrs. @ 40°C	CR253-ND*	28.44	23.47	SU2C5	CR180-ND◆	.93
		80x42	—	220/230	Lead Wires	Ball	14/13	.09/.08A	2750/3250	28/34	55,000 hrs. @ 40°C	CR255-ND*	33.54	27.68	SU3B1	CR180-ND◆	.93
	Whisper	120x38	115	—	Terminal	Sleeve	7/7	.07/.06A	1640/1660	55/57	55,000 hrs. @ 40°C	CR113-ND◆	28.76	23.73	WR2A1	CR210-ND◆	1.72
		120x38	115	—	Terminal	Sleeve	11/10	.12/.11A	2100/2400	70/80	55,000 hrs. @ 40°C	CR114-ND	28.76	23.73	WR2H1	CR210-ND◆	1.72
		120x38	—	220/230	Terminal	Sleeve	12/12	.07/.07A	1590/2000	53/62	55,000 hrs. @ 40°C	CR116-ND◆	31.42	25.93	WR3A1	CR210-ND◆	1.72
	Whisper XL	119x39	115	—	Terminal	Sleeve	6/6	.07/.06A	1450/1500	48/50	55,000 hrs. @ 40°C	CR117-ND†	29.18	24.08	WX2A1	CR210-ND◆	1.72
		119x39	115	—	Terminal	Sleeve	10/9	.11/.10A	1900/2000	65/70	55,000 hrs. @ 40°C	CR119-ND†	29.18	24.08	WX2M1	CR210-ND◆	1.72
		119x39	115	—	Terminal	Sleeve	15/13	.19/.15A	2200/2500	70/83	55,000 hrs. @ 40°C	CR118-ND†	29.18	24.08	WX2H1	CR210-ND◆	1.72
		119x39	—	220/230	Terminal	Sleeve	14/13	.10/.09A	2200/2500	70/83	55,000 hrs. @ 40°C	CR256-ND†	29.18	24.08	WX3H1	CR210-ND◆	1.72
	Muffin	120x38	115	—	Terminal	Sleeve	15/14	.19/.16A	2650/3100	88/105	55,000 hrs. @ 40°C	CR122-ND◆	30.88	25.48	MU2A1	CR210-ND◆	1.72
		120x38	115	—	Terminal	Ball	15/14	.19/.16A	2650/3100	88/105	85,000 hrs. @ 40°C	CR124-ND◆	38.24	31.55	MU2B1	CR210-ND◆	1.72
		120x38	—	220/230	Terminal	Sleeve	15/14	.10/.09A	2650/3100	88/105	55,000 hrs. @ 40°C	CR123-ND◆	30.88	25.48	MU3A1	CR210-ND◆	1.72
		120x38	—	220/230	Terminal	Ball	15/14	.10/.09A	2650/3100	88/105	85,000 hrs. @ 40°C	CR125-ND◆	38.24	31.55	MU3B1	CR210-ND◆	1.72
	Muffin XL	119x39	115	—	Terminal	Sleeve	17/15	.20/.18A	2700/3100	92/108	55,000 hrs. @ 40°C	CR128-ND†*	29.28	24.16	MX2A1	CR210-ND◆	1.72
		119x39	115	—	Terminal	Ball	17/15	.20/.18A	2700/3100	92/108	83,000 hrs. @ 40°C	CR132-ND†*	40.26	33.22	MX2B1	CR210-ND◆	1.72
		119x39	115	—	Terminal	Sleeve	17/15	.20/.18A	2700/3100	98/115	55,000 hrs. @ 40°C	CR126-ND†	28.76	23.73	MX2A3	CR210-ND◆	1.72
		119x39	115	—	Terminal	Ball	17/15	.20/.18A	2700/3100	98/115	83,000 hrs. @ 40°C	CR130-ND†	40.26	33.22	MX2B3	CR210-ND◆	1.72
		119x39	—	220/230	Terminal	Sleeve	17/16	.10/.09A	2700/3100	98/115	55,000 hrs. @ 40°C	CR257-ND†	29.82	24.61	MX3A3	CR210-ND◆	1.72
		119x39	—	220/230	Terminal	Ball	17/16	.10/.09A	2700/3100	98/115	55,000 hrs. @ 40°C	CR258-ND†	40.26	33.22	MX3B3	CR210-ND◆	1.72
	Tarzan	176x112	115	—	Terminal	Ball	90/85	1.4/1.2A	2820/3350	280/340	25,000 hrs. @ 40°C	CR140-ND◆	109.24	90.13	TNE2A	CR179-ND◆	6.99
		176x112	—	220/230	Terminal	Ball	82/85	.65/.60A	2820/3350	280/340	25,000 hrs. @ 40°C	CR141-ND◆	109.24	90.13	TNE3A	CR179-ND◆	6.99
		176x112	115	—	Lead Wires	Ball	90/85	1.4/1.2A	2820/3350	280/340	25,000 hrs. @ 40°C	CR259-ND◆	108.04	89.14	TNE2C	CR179-ND◆	6.99
2	Patriot	172x51	115	—	Terminal	Ball	30/31	.27/.26A	2850/3350	200/235	5 yrs. @ 25°C	CR136-ND†	64.86	53.51	PT2B3	CR206-ND◆	2.84
		172x51	—	220/230	Terminal	Ball	26/30	.13/.14A	2850/3350	200/235	53,000 hrs. @ 40°C	CR137-ND†	65.18	53.78	PT77B3	CR206-ND◆	2.84
3	Maltese	172x150x55	115	—	Terminal	Ball	41.4	.36A	3400	300	40,000 hrs. @ 50°C	CR311-ND†	77.63	66.86	MA2B3	CR196-ND◆	3.02
		172x150x55	—	220/230	Terminal	Ball	41.4	.18A	3400	300	40,000 hrs. @ 50°C	CR312-ND†	77.63	66.86	MA77B3	CR196-ND◆	3.02
	Major	172x150x51	115	—	Terminal	Ball	30/31	.27/.26A	2850/3350	200/235	5 yrs. @ 25°C	CR134-ND†	64.86	53.51	MR2B3	CR196-ND◆	3.02
		172x150x51	—	220/230	Terminal	Ball	26/30	.13/.14A	2850/3350	200/235	5 yrs. @ 25°C	CR135-ND†	65.18	53.78	MR77B3	CR196-ND◆	3.02
4	Falcon	172x55	115	—	Terminal	Ball	41.4	.36A	3400	300	40,000 hrs. @ 50°C	CR309-ND†	77.63	66.86	FA2B3	CR196-ND◆	3.02
		172x55	—	220/230	Terminal	Ball	41.4	.18A	3400	300	40,000 hrs. @ 50°C	CR310-ND†	77.63	66.86	FA77B3	CR196-ND◆	3.02
		254x89	115	—	Lead Wires	Ball	65	.48/.50A	1400/1650	455/550	54,000 hrs. @ 40°C	CR144-ND†	67.66	58.96	CLE2L2	CR182-ND◆	1.89
5	Caravel	254x89	115	—	Terminal	Ball	65	.48/.50A	1400/1650	455/550	54,000 hrs. @ 40°C	CR145-ND†	69.70	60.75	CLE2T2	CR182-ND◆	1.89
		254x89	—	220/230	Terminal	Ball	55	.24/.25A	1400/1650	455/550	54,000 hrs. @ 40°C	CR147-ND†	69.70	60.75	CLE3T2	CR182-ND◆	1.89
Blowers																	
6	Biscuit	120x40	115	—	Terminal	Sleeve	17/16	.19/.17A	2500/2700	20/22	55,000 hrs. @ 40°C	CR148-ND◆	36.22	29.89	BT2A1	—	—
		120x40	—	220/230	Terminal	Sleeve	15/14	.09/.08A	2500/2700	20/22	55,000 hrs. @ 40°C	CR149-ND◆	36.22	29.89	BT3A1	—	—
Impellers																	
7	Diplomat	133x91	—	220/230	Terminal	Ball	26/30	.13/.20A	2850/3350	150/170	50,000 hrs. @ 40°C	CR314-ND	70.45	60.67	DAF77B2	—	—

◆***RoHS Compliant*** † Feathered Edge for lower noise * Reverse Flow

Fan Accessories

Fig.	Description	Dimensions - mm A	Dimensions - mm Thickness	Fits Fan Size – mm	Center Dim. – mm	No. of Rings	Material	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50
1	Finger Guard	222.00	17.78	176 Sq.	99 open	3	Metal	CR179-ND	6.99	6.02	5.53

Fig. 1

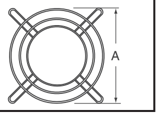

Description	Fits Fan Size – mm	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50
Filters and Filter Accessories					
Filter Assembly	119 and 120 Square	CR209-ND	27.97	21.32	19.32
Clips					
#6-32 Flush Mounting Clip	Major, Major DC, Whisper	CR187-ND	.19	.17	.16
#6-32 Mounting Clip	All XL Models	CR192-ND	.15	.12	.11

Qualtek ELECTRONICS CORP.

Fan Accessories

Fig. 1

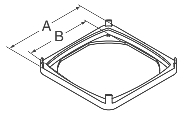

Fig. 2

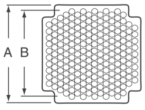

Fig.	Description	Dim. – mm A	Dim. – mm B	Fits Fan Size – mm	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Qualtek Part No.
Fan Vibration Sleeve and Accessories									
1	Rubber Fan Sleeve, Panel Mount Hole 5.0 (mm)	43	40	40 Sq.	Q313-ND	3.03	2.55	2.31	QLM-40-20-10
	Rubber Fan Sleeve, Panel Mount Hole 5.5 (mm)	64	60	60 Sq.	Q314-ND	3.61	3.04	2.75	QLM-60-30-10
	Rubber Fan Sleeve, Panel Mount Hole 6.5 (mm)	84	80	80 Sq.	Q315-ND	4.18	3.52	3.18	QLM-80-40-10
	Rubber Fan Sleeve, Panel Mount Hole 6.5 (mm)	97	92	92 Sq.	Q316-ND	4.13	3.74	3.35	QLM-92-40-10
	Rubber Fan Sleeve, Panel Mount Hole 8.5 (mm)	125	119	119 Sq.	Q317-ND	4.79	4.33	3.88	QLM-119-50-10
2	Filter Guard EMI/RFI Shield Sheet, Metal	40	32	40 Sq.	Q328-ND	1.62	1.37	1.24	QSB-40-01
		60	50	60 Sq.	Q329-ND	1.80	1.51	1.37	QSB-60-01
		80	71.5	80 Sq.	Q330-ND	2.16	1.82	1.65	QSB-80-01
		92	82.5	92 Sq.	Q331-ND	2.51	2.11	1.91	QSB-92-01
		119	105	119 Sq.	Q332-ND	3.60	3.03	2.74	QSB-119-01

(Continued)

Fan Accessories *(Cont.)*

Fig. 3

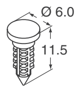

Fig. 4

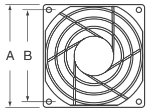

Fig. 5

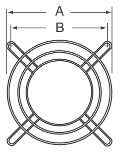

Fig. 6

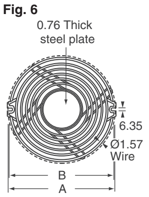

Fig. 7

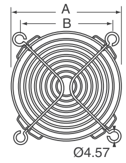

Fig. 8

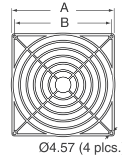

Fig. 9

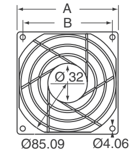

Fig. 10

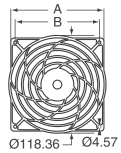

Fig. 11

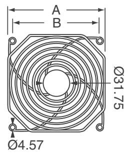

Fig. 12

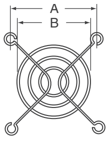

Fig. 13

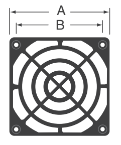

Fig. 14

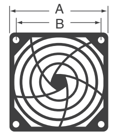

Fig. 15

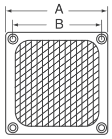

Fig. 16

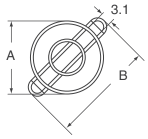

Fig. 17

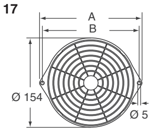

Fig. 18

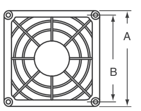

Fig. 19

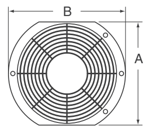

Fig. 20

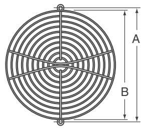

Fig. 21

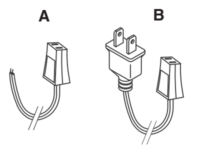

Fig. 22

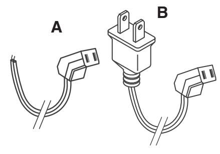

Fig. 23

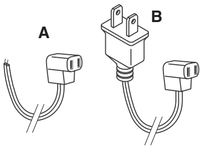

Fig. 24

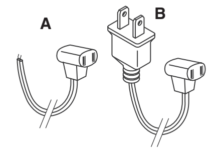

Fig.	Description	Dim. – mm		Fits Fan Size – mm	Digi-Key Part No.	Price Each			Qualtek Part No.
		A	B			1	25	50	
—	Filter Media	40	32	40 Sq.	Q323-ND	.54	.45	.41	QF-40-01
		60	50	60 Sq.	Q324-ND	.60	.51	.46	QF-60-01
		80	71.5	80 Sq.	Q325-ND	.70	.59	.54	QF-80-01
		92	82.5	92 Sq.	Q326-ND	.74	.62	.56	QF-92-01
		119	105	119 Sq.	Q327-ND	.87	.74	.67	QF-119-01
3	Lamella Rivet	—	—	—	Q333-ND	.26	.22	.20	QN-36-110

Fig.	Dim. – mm			Fits Fan Size – mm	Center Dim. – mm	No. of Rings	Material	Digi-Key Part No.	Price Each			Qualtek Part No.
	A	B	Thick						1	25	50	
Finger Guards												
4	46	32	7.5	40 Sq.	18 solid	2	Plastic	Q318-ND	2.04	1.72	1.56	QSG-40-02
	66	50	8.5	60 Sq.	27 solid	2	Plastic	Q319-ND	2.51	2.12	1.91	QSG-60-02
	89	71.5	8.5	80 Sq.	30 solid	2	Plastic	Q320-ND	2.72	2.29	2.07	QSG-80-02
	101	82.5	8.5	92 Sq.	30 solid	3	Plastic	Q321-ND	1.74	1.47	1.33	QSG-92-02
	128	105	9.0	119 Sq.	42 solid	4	Plastic	Q322-ND	2.34	1.97	1.78	QSG-119-02
5	109.47	104.78	4.83	120 Sq.	57 open	3	Metal	CR178-ND	1.23	1.04	.94	08146
	76.96	71.37	3.89	80 Sq.	50 open	3	Metal	CR180-ND	.93	.79	.71	08153
	209.55	173.99	8.38	254 Dia.	102 open	5	Metal	CR182-ND	1.89	1.72	1.54	08154
6	158.75	161.92	6.10	150 Dia.	74 solid	6	Metal	CR206-ND	2.84	2.39	2.16	08152
	158.75	161.92	6.10	171.5 Dia.	74 solid	5 3/4	Metal	CR196-ND	3.02	2.54	2.30	08151-01
7	124.46	113.28	5.92	127 Dia.	14 open	9	Metal	CR200-ND	2.51	2.11	1.91	08150
	115.57	104.78	3.75	120 Dia.	14.2 open	8	Metal	Q342-ND	.98	.83	.75	08129
	115.57	104.78	5.66	120 Dia.	14.2 open	8	Metal	Q357-ND	.98	.83	.75	08130
	76.2	71.37	4.95	80 Dia.	14.2 open	5	Metal	Q358-ND	.82	.62	.56	08132
8	115.06	104.65	6.60	120 Sq.	25.4 solid	6	Plastic	CR280-ND	.93	.79	.71	09120-G
9	115.06	104.65	2.54	120 Sq.	32 solid	5	Plastic	CR315-ND	.93	.79	.71	09122-G
10	115.06	104.65	6.60	120 Sq.	45 solid	5	Plastic	CR281-ND	1.05	.88	.80	09121-G
11	117.35	104.78	5.21	120 Sq.	33 solid	7	Metal	CR210-ND	1.72	1.45	1.31	08141
12	82.42	89.41	4.95	92 Sq.	14 open	6	Metal	CR220-ND	.77	.65	.59	08174
	50.04	53.10	4.95	60 Sq.	14 open	4	Metal	CR221-ND	.68	.57	.52	08147
	173.99	222.25	6.35	254 Dia.	76.2 solid	9	Metal	CR223-ND	3.98	3.34	3.03	08127
	104.8	115.6	5.66	120 Dia.	17.5 open	8	Metal	CR224-ND	.91	.77	.69	08170
	71.4	76.20	4.95	80 Dia.	17.4 open	5	Metal	CR229-ND	.70	.59	.54	08172
	32.00	29.21	4.80	40 Dia.	15.875 open	2	Metal	CR230-ND	.65	.55	.50	08149
	24.00	21.8	4.80	30 Sq.	9 open	2	Metal	CR377-ND	.64	.59	.53	08346
	29.00	27.00	4.00	35 Sq.	14.2 open	2	Metal	CR378-ND	.66	.60	.54	08347
	40.00	41.06	4.80	50 Sq.	14.2 open	3	Metal	CR379-ND	.86	.78	.70	08248
	41.00	42.00	4.80	52 Sq.	14.2 open	3	Metal	CR388-ND	.59	.53	.48	08148
13	39.88	32.00	4.83	40 Sq.	12 open	3	Plastic	CR285-ND	.42	.36	.33	09150-G
	59.94	50.04	6.35	60 Sq.	5 solid	3	Plastic	CR225-ND	.51	.43	.39	09250-G
14	80.01	71.37	6.35	80 Sq.	15 solid	3	Plastic	CR226-ND	.69	.58	.53	09325-G
	79.76	71.37	3.05	80 Sq.	32 solid	3	Plastic	CR282-ND	.53	.45	.40	09080-G
	91.95	82.55	6.35	92 Sq.	31.5 solid	4	Plastic	CR227-ND	.75	.63	.57	09362-G
	118.11	104.65	7.11	120 Sq.	25 solid	6	Plastic	CR228-ND	1.03	.87	.79	09450-G
16	24.2	34.2	3.0	25 Sq.	104 open	2	Metal	CR181-ND	.54	.45	.41	08245
18	60.0	50.0	7.0	60 Sq.	21.0 solid	3	Plastic	CR190-ND	.83	.70	.64	09252-G
19	151	172	7.0	151 Sq.	50 solid	8	Plastic	CR191-ND	2.48	2.09	1.89	09651-G
20	162.05	154.43	6.45	150 Dia.	16.31 open	10	Metal	Q341-ND	2.00	1.68	1.52	08126

Fig.	Description	Dim. – mm		Fits Fan Size – mm	Digi-Key Part No.	Price Each			Qualtek Part No.
		A	B			1	25	50	
Filters and Filter Accessories									
13	Filter Guard Assembly (30 PPI)	39.88	32.00	40 Sq.	CR286-ND	1.73	1.46	1.32	09150-F/30
13	Filter Guard Assembly (45 PPI)	39.88	32.00	40 Sq.	CR287-ND	1.73	1.46	1.32	09150-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	40 Sq.	CR324-ND	1.44	1.22	1.10	09150-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	40 Sq.	CR325-ND	1.44	1.22	1.10	09150-M/45
13	Filter Guard Assembly (30 PPI)	59.94	50.04	60 Sq.	CR283-ND	1.86	1.57	1.42	09250-F/30
13	Filter Guard Assembly (45 PPI)	59.94	50.04	60 Sq.	CR284-ND	1.86	1.57	1.42	09250-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	60 Sq.	CR326-ND	1.51	1.28	1.15	09250-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	60 Sq.	CR327-ND	1.51	1.28	1.15	09250-M/45
14	Filter Guard Assembly (30 PPI)	83.57	71.37	80 Sq.	CR212-ND	1.97	1.66	1.50	09325-F/30
14	Filter Guard Assembly (45 PPI)	83.57	71.37	80 Sq.	CR214-ND	1.97	1.66	1.50	09325-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	80 Sq.	CR213-ND	1.65	1.39	1.26	09325-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	80 Sq.	CR215-ND	1.65	1.39	1.26	09325-M/45
14	Filter Guard Assembly (30 PPI)	96.52	82.55	92 Sq.	CR328-ND	2.26	1.91	1.72	09362-F/30
14	Filter Guard Assembly (45 PPI)	96.52	82.55	92 Sq.	CR329-ND	2.26	1.91	1.72	09362-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	92 Sq.	CR330-ND	1.75	1.47	1.33	09362-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	92 Sq.	CR331-ND	1.75	1.47	1.33	09362-M/45
14	Filter Guard Assembly (30 PPI)	123.7	104.9	119 & 120 Square	CR216-ND	2.35	1.98	1.79	09450-F/30
14	Filter Guard Assembly (45 PPI)	123.7	104.9		CR218-ND	2.35	1.98	1.79	09450-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—		CR217-ND	2.12	1.78	1.61	09450-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—		CR219-ND	2.12	1.78	1.61	09450-M/45
15	Filter/Screen, Stainless Steel (Washable)	64.26	49.6	60 Sq.	CR373-ND	2.77	2.51	2.25	06250-SS
	Filter/Screen, Aluminum (Washable)	83.82	71.37	80 Sq.	CR233-ND	1.68	1.52	1.36	06325-M
	Filter/Screen, Stainless Steel (Washable)	83.82	71.37	80 Sq.	CR374-ND	3.15	2.85	2.55	06325-SS
	Filter/Screen, Aluminum (Washable)	91.95	82.42	92 Sq.	CR234-ND	1.80	1.64	1.47	06362-M
	Filter/Screen, Stainless Steel (Washable)	91.95	82.42	92 Sq.	CR375-ND	3.45	3.13	2.80	06362-SS
	Filter/Screen, Aluminum (Washable)	118.87	104.77	120 Sq.	CR235-ND	2.14	1.94	1.74	06450-M
	Filter/Screen, Stainless Steel (Washable)	118.87	104.77	120 Sq.	CR376-ND	4.41	3.99	3.57	06450-SS
	Filter/Screen, Anodized-Black (Washable)	83.82	71.37	80 Sq.	Q343-ND	1.68	1.52	1.36	06325-B
	Filter/Screen, Anodized-Black (Washable)	118.5	104.77	120 Sq.	Q344-ND	2.14	1.94	1.74	06450-B
17	Finger Guard Assembly, Plastic (30 PPI)	176.0	161.5	150 Sq.	CR183-ND	3.19	2.68	2.43	09650-F/30
	Finger Guard Assembly, Plastic (45 PPI)	176.0	161.5	150 Sq.	CR185-ND	3.19	2.68	2.43	09650-F/45
	Finger Guard Assembly, Plastic (60 PPI)	176.0	161.5	150 Sq.	CR186-ND	2.91	2.64	2.36	09650-F/60
	Finger Guard Assembly, Plastic (100 PPI)	176.0	161.5	150 Sq.	CR189-ND	2.91	2.64	2.36	09650-F/100
Plug Cord Sets – SPT-1 (18/2)									
21A	Straight On Plug and Cord – 24” (60.96cm)	Fits all Diplomat, Falcon, Maltese, Major, Patriot, Tarzan, Caravel, and Biscuit model fans with Terminal Connections			CR197-ND	1.51	1.28	1.15	07100-24
	Straight On Plug and Cord – 36” (91.44cm)				CR198-ND	1.85	1.56	1.41	07100-36
	Straight On Plug and Cord – 50” (127.00cm)				CR199-ND	2.28	1.92	1.74	07100-50
21B	Straight On Plug and Cord – 24” (60.96cm)				CR361-ND	2.21	1.86	1.68	07100-SP024
	Straight On Plug and Cord – 36” (91.44cm)				CR362-ND	2.51	2.12	1.91	07100-SP036
	Straight On Plug and Cord – 72” (182.88cm)				CR363-ND	3.58	3.01	2.72	07100-SP072
22A	45° Angle Plug and Cord – 24” (60.96cm)	Fits all AC Fans with Terminal Connection Type			CR318-ND	1.51	1.28	1.15	07145-24
	45° Angle Plug and Cord – 36” (91.44cm)				CR319-ND	1.86	1.56	1.41	07145-36
22B	45° Angle Plug and Cord – 36” (91.44cm)				CR365-ND	2.51	2.12	1.91	07145-SP036
	45° Angle Plug and Cord – 72” (182.88cm)				CR366-ND	3.58	3.01	2.72	07145-SP072
23A	90° Angle Plug and Cord – 12” (30.48cm)	Fits all AC Fans with Terminal Connection Type			CR320-ND	1.22	1.03	.93	07190-12
	90° Angle Plug and Cord – 24” (60.96cm)				CR321-ND	1.51	1.28	1.15	07190-24
	90° Angle Plug and Cord – 36” (91.44cm)				CR322-ND	1.86	1.56	1.41	07190-36
23B	90° Angle Plug and Cord – 24” (60.96cm)				CR367-ND	2.21	1.86	1.68	07190-SP024
	90° Angle Plug and Cord – 36” (91.44cm)				CR368-ND	2.51	2.12	1.91	07190-SP036
	90° Angle Plug and Cord – 72” (182.88cm)				CR369-ND	3.58	3.01	2.72	07190-SP072
24A	90° Angle T-Style Plug and Cord – 12” (30.48cm)	Fits all AC Fans with Terminal Connection Type			CR323-ND	1.22	1.03	.93	07199-12
	90° Angle T-Style Plug and Cord – 24” (60.96cm)				CR170-ND	1.51	1.28	1.15	07199-24
	90° Angle T-Style Plug and Cord – 36” (91.44cm)				CR175-ND	1.86	1.56	1.41	07199-36
	90° Angle T-Style Plug and Cord – 72” (182.88cm)				CR337-ND	2.85	2.39	2.17	07199-72
	90° Angle T-Style Plug and Cord – 96” (243.84cm)				CR338-ND	3.55	2.99	2.70	07199-96
24B	90° Angle T-Style Plug and Cord – 36” (91.44cm)				CR371-ND	2.52	2.12	1.92	07199-SP036
	90° Angle T-Style Plug and Cord – 72” (182.88cm)				CR372-ND	3.58	3.01	2.72	07199-SP072

AC Axial Fans

NMB-MAT AC Axial Fans suit a wide range of applications. They force air out in a “funnel” type pattern, and are ideal when cooling a specific area such as a power supply that is surrounded by numerous components with minimum ventilation available.

Size (mm)	Bearing	Voltage	Input Power (W)	Air Flow (CFM)	Noise (dB)	Leads	Digi-Key Part No.	Price Each			NMB Technologies Part No.	Finger Guard	Price Each
								1	5	10			
60x30	Ball	115	4.0	9.18	29	22AWG, 300mm Leads	P12871-ND	16.88	14.52	12.49	2412PS-12W-B30-A00	CR221-ND	.68
80x25	Ball	115	5.0	19.77	33	22AWG, 300mm Leads	P12872-ND	17.00	14.62	12.58	3110PS-12W-B30-A00	CR229-ND	.70
80x38	Ball	115	4.0	18.0	31	.110 Terminal	P12988-ND	16.50	14.19	12.21	3115FS-12T-B00-A00	CR229-ND	.70
		115	4.0	19.4	25	22AWG, 300mm Leads	P12993-ND	17.00	14.62	12.58	3115PS-12W-B10-A00	CR229-ND	.70
		230	6.5	20.0	35	.110 Terminal	P12875-ND	16.50	14.19	12.21	3115FS-23T-B10-A00	CR229-ND	.70
		230	6.5	20.0	35	22AWG, 300mm Leads	P12879-ND	16.50	14.19	12.21	3115FS-23W-B10-A00	CR229-ND	.70
		115	6.0	22.0	36	.110 Terminal	P12873-ND	17.00	14.62	12.58	3115FS-12T-B10-A00	CR229-ND	.70
		115	6.0	22.0	36	22AWG, 300mm Leads	P12877-ND	16.50	14.19	12.21	3115FS-12W-B10-A00	CR229-ND	.70
		230	5.0	22.0	26	22AWG, 300mm Leads	P12997-ND	17.00	14.62	12.58	3115PS-23W-B10-A00	CR229-ND	.70
		230	6.0	26.0	34	.110 Terminal	P12995-ND	17.00	14.62	12.58	3115PS-23T-B20-A00	CR229-ND	.70
		230	6.0	26.0	34	22AWG, 300mm Leads	P12998-ND	17.00	14.62	12.58	3115PS-23W-B20-A00	CR229-ND	.70
		115	7.0	27.0	40	.110 Terminal	P12989-ND	16.50	14.19	12.21	3115FS-12T-B20-A00	CR229-ND	.70
		115	7.0	27.0	40	22AWG, 300mm Leads	P12990-ND	16.50	14.19	12.21	3115FS-12W-B20-A00	CR229-ND	.70
		115	7.0	31.77	38	.110 Terminal	P12881-ND	17.00	14.62	12.58	3115PS-12T-B30-A00	CR229-ND	.70
		115	8.5	32.0	44	.110 Terminal	P12874-ND	17.00	14.62	12.58	3115FS-12T-B30-A00	CR229-ND	.70
		115	8.5	32.0	44	22AWG, 300mm Leads	P12878-ND	17.00	14.62	12.58	3115FS-12W-B30-A00	CR229-ND	.70
		115	7.0	32.0	38	22AWG, 300mm Leads	P12882-ND	17.00	14.62	12.58	3115PS-12W-B30-A00	CR229-ND	.70
		230	8.0	32.0	38	.110 Terminal	P12996-ND	17.00	14.62	12.58	3115PS-23T-B30-A00	CR229-ND	.70
		230	8.0	32.0	38	22AWG, 300mm Leads	P12999-ND	17.00	14.62	12.58	3115PS-23W-B30-A00	CR229-ND	.70
		230	8.0	33.0	44	.110 Terminal	P12876-ND	17.00	14.62	12.58	3115FS-23T-B30-A00	CR229-ND	.70
		230	8.0	33.0	44	22AWG, 300mm Leads	P12880-ND	17.00	14.62	12.58	3115FS-23W-B30-A00	CR229-ND	.70
92x25	Ball	115	6.0	20.0	25	.110 Terminal	P13100-ND	17.25	14.84	12.77	3610PS-12T-B10-A00	CR220-ND	.77
		115	6.0	20.0	25	22AWG, 300mm Leads	P13102-ND	17.25	14.84	12.77	3610PS-12W-B10-A00	CR220-ND	.77
		230	6.0	20.0	26	.110 Terminal	P13103-ND	17.25	14.84	12.77	3610PS-23T-B10-A00	CR220-ND	.77
		115	6.0	28.0	35	.110 Terminal	P13101-ND	17.25	14.84	12.77	3610PS-12T-B20-A00	CR220-ND	.77
		230	6.0	28.0	35	.110 Terminal	P13104-ND	17.25	14.84	12.77	3610PS-23T-B20-A00	CR220-ND	.77
		115	9.0	34.5	38	22AWG, 300mm Leads	P12884-ND	17.25	14.84	12.77	3610PS-12W-B30-A00	CR220-ND	.77
		230	10.0	34.5	39	22AWG, 300mm Leads	P12886-ND	17.25	14.84	12.77	3610PS-23W-B30-A00	CR220-ND	.77
		115	9.0	34.6	38	.110 Terminal	P12883-ND	17.25	14.84	12.77	3610PS-12T-B30-A00	CR220-ND	.77
		230	10.0	34.6	39	.110 Terminal	P12885-ND	17.25	14.84	12.77	3610PS-23T-B30-A00	CR220-ND	.77
119x25	Ball	115	7.0	53.0	30	.110 Terminal	P12887-ND	17.25	14.84	12.77	4710PS-12T-B20-A00	CR224-ND	.91
		230	8.0	53.0	30	.110 Terminal	P12889-ND	17.25	14.84	12.77	4710PS-23T-B20-A00	CR224-ND	.91
		115	11.0	70.6	38	.110 Terminal	P12888-ND	17.25	14.84	12.77	4710PS-12T-B30-A00	CR224-ND	.91
		230	11.0	70.6	38	.110 Terminal	P12890-ND	17.25	14.84	12.77	4710PS-23T-B30-A00	CR224-ND	.91
119x38	Ball	115	5.5	49.4	28	.110 Terminal	P12891-ND	16.25	13.98	12.03	4715MS-12T-B10-A00	CR224-ND	.91
		230	7.5	67.0	30	.110 Terminal	P13110-ND	16.25	13.98	12.03	4715MS-23T-B20-A00	CR224-ND	.91
		115	7.0	67.1	30	.110 Terminal	P12892-ND	16.25	13.98	12.03	4715MS-12T-B20-A00	CR224-ND	.91
		115	10.0	70.0	33	.110 Terminal	P12895-ND	16.88	14.52	12.49	4715FS-12T-B10-D00	CR224-ND	.91
		230	9.0	70.0	70	.110 Terminal	P12897-ND	16.88	14.52	12.49	4715FS-23T-B10-D00	CR224-ND	.91
		230	11.0	88.2	37	.110 Terminal	P13111-ND	16.25	13.98	12.03	4715MS-23T-B30-A00	CR224-ND	.91
		115	14.5	102	41	.110 Terminal	P12893-ND	16.25	13.98	12.03	4715MS-12T-B50-A00	CR224-ND	.91
		115	14.5	90.0	39	.110 Terminal	P13106-ND	16.88	14.52	12.49	4715FS-12T-B30-D00	CR224-ND	.91
		115	13.0	95.0	39	.110 Terminal	P13109-ND	16.25	13.98	12.03	4715MS-12T-B40-A00	CR224-ND	.91
		230	13.0	95.0	39	.110 Terminal	P13112-ND	16.25	13.98	12.03	4715MS-23T-B40-A00	CR224-ND	.91
		115	14.0	100.0	42	.110 Terminal	P13107-ND	16.25	13.98	12.03	4715FS-12T-B40-D00	CR224-ND	.91
		230	14.0	100.0	100	.110 Terminal	P13108-ND	16.88	14.52	12.49	4715FS-23T-B40-D00	CR224-ND	.91
		230	14.0	102.4	41	.110 Terminal	P12894-ND	16.25	13.98	12.03	4715MS-23T-B50-A00	CR224-ND	.91
		115	14.4	110	45	.110 Terminal	P12896-ND	16.25	13.98	12.03	4715FS-12T-B50-D00	CR224-ND	.91
		230	14.0	110	110	.110 Terminal	P12898-ND	16.25	13.98	12.03	4715FS-23T-B50-D00	CR224-ND	.91
150x172x38	Ball	115	32.0	21.2	56	.110 Terminal	P12899-ND	51.85	44.60	38.37	5915PC-12T-B30-A00	CR191-ND	2.48
		230	35.0	21.2	56	.110 Terminal	P12900-ND	51.85	44.60	38.37	5915PC-23T-B30-A00	CR191-ND	2.48
		230	18.0	102.3	38	.110 Terminal	P13113-ND	51.85	44.60	38.37	5915PC-23T-B10-A00	CR191-ND	2.48

DC Fans FBL Series

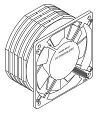

Features:
- Louvered design increases air flow and decreases turbulent noise at standard rating conditions
- Hydro-Wave Bearing Technology

Specifications:
- Operating Temperature: -10°C ~ 70°C (65%RH)
- Plastic Rating: All Panaflo fans are manufactured with a UL94V-0 plastic (flammability)
- Noise Data: The noise data is measured at 1 meter from the air intake side of the fan suspended in a semi-anechoic chamber (background noise 13dB-A maximum)
- Life Expectancy: 50,000 hours (40°C, 65%RH)

Operating Voltage (VDC)		Dim. (mm) Sq.xThk.	Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (mmH_2O)	Max. Noise (dB-A)	Lead Length (mm)	Digi-Key Part No.	Price Each					NMB Technologies Part No.	Finger Guards	Price Each
Nom.	Range								1	5	10	50	100			
12	7-13.5	60 x 25.5	3.24	15.89	4.7	42.0	315	P10893-ND◆	8.75	7.53	6.48	5.81	5.25	FBL06A12U1A	CR221-ND◆	.68
12	7-13.8	60 x 25.5	2.64	14.83	4.1	36.0	315	P10892-ND◆	8.50	7.31	6.29	5.65	5.10	FBL06A12H1A	CR221-ND◆	.68
12	7-13.8	60 x 25.5	2.04	13.06	3.0	32.0	315	P10891-ND	8.50	7.31	6.29	5.65	5.10	FBL06A12M1A	CR221-ND◆	.68
12	7-13.8	60 x 25.5	1.68	14.83	2.1	29.0	315	P10890-ND◆	8.75	7.53	6.48	5.81	5.25	FBL06A12L1A	CR221-ND◆	.68
24	14-27.6	60 x 25.5	3.24	15.89	4.7	42.0	315	P11017-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24U1A	CR221-ND◆	.68
24	14-27.6	60 x 25.5	1.68	14.83	2.1	29.0	315	P11014-ND◆	8.50	7.31	6.29	5.65	5.10	FBL06A24L1A	CR221-ND◆	.68
12	7-13.5	80 x 25.5	4.32	35.31	4.7	42.0	300	P11082-ND◆	9.25	7.96	6.85	6.15	5.55	FBL08A12U1BX	CR180-ND◆	.93
12	7-13.8	80 x 25.5	4.32	35.31	4.0	42.0	300	P10897-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12U1A	CR180-ND◆	.93
12	7-13.8	80 x 25.5	3.00	30.01	2.9	39.0	300	P10896-ND	8.50	7.31	6.29	5.65	5.10	FBL08A12H1A	CR180-ND◆	.93
12	7-13.8	80 x 25.5	2.04	24.71	2.0	33.0	300	P10895-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12M1A	CR180-ND◆	.93
24	14-27.6	80 x 25.5	3.00	30.00	2.9	39.0	300	P11020-ND◆	8.50	7.31	6.29	5.65	5.10	FBL08A24H1A	CR180-ND◆	.93
24	14-27.6	80 x 25.5	2.04	24.71	2.0	33.0	300	P11019-ND	8.50	7.31	6.29	5.65	5.10	FBL08A24M1A	CR180-ND◆	.93
24	14-27.6	80 x 25.5	1.20	17.30	1.1	26.0	300	P11018-ND	8.50	7.31	6.29	5.65	5.10	FBL08A24L1A	CR180-ND◆	.93
12	7-13.5	92 x 25.5	3.48	45.89	3.3	40.0	295	P10900-ND	8.50	7.31	6.29	5.65	5.10	FBL09A12H1A	CR220-ND◆	.77
12	7-13.5	92 x 25.5	3.48	45.9	3.3	40.0	295	P11083-ND	9.25	7.96	6.85	6.15	5.55	FBL09A12H1BX	CR220-ND◆	.77
12	7-13.8	92 x 25.5	2.40	35.30	2.3	36.0	295	P10899-ND	8.50	7.31	6.29	5.65	5.10	FBL09A12M1A	CR220-ND◆	.77
24	14-27.6	92 x 25.5	6.60	54.70	4.4	47.0	295	P11025-ND	8.50	7.31	6.29	5.65	5.10	FBL09A24U1A	CR220-ND◆	.77
24	14-27.6	92 x 25.5	6.60	54.70	4.4	47.0	295	P11092-ND	9.25	7.96	6.85	6.15	5.55	FBL09A24U1BX	CR220-ND◆	.77
24	14-27.6	92 x 25.5	3.48	45.89	3.3	40.0	295	P11024-ND	8.50	7.31	6.29	5.65	5.10	FBL09A24H1A	CR220-ND◆	.77
24	14-27.6	92 x 25.5	2.40	35.30	2.3	36.0	295	P11023-ND	8.50	7.31	6.29	5.65	5.10	FBL09A24M1A	CR220-ND◆	.77
12	7-13.8	120 x 38	7.20	81.19	5.2	46.0	280	P10904-ND	28.25	24.30	20.91	18.76	16.95	FBL12G12H1A	CR210-ND◆	1.72
24	14-27.6	120 x 38	7.20	81.19	5.2	46.0	280	P11028-ND	28.25	24.30	20.91	18.76	16.95	FBL12G24H1A	CR210-ND◆	1.72
24	14-27.6	120 x 38	5.40	67.07	3.6	41.0	280	P11027-ND	28.25	24.30	20.91	18.76	16.95	FBL12G24M1A	CR210-ND◆	1.72
24	14-27.6	120 x 38	2.88	52.95	2.3	35.0	280	P11026-ND	28.25	24.30	20.91	18.76	16.95	FBL12G24L1A	CR210-ND◆	1.72

◆ ***RoHS Compliant*** **Manufacturer Part Number Ending Code: A** - Standard; **BX** - 2 PPR Speed Sensor (TAC Output)

FCC-000-ND	Lead Wire Assembly, 3 Conductors	**$1.99/1; $17.89/10**
P11031-ND	Lead Wire Assembly, 2 Conductors	**$.63/1; $13.44/25**

Please Note: Custom Fan Cable Assemblies available upon request.

NMB
A Minebea Company

DC Axial Fans

TÜV

NMB-MAT combines the Panasonic Panaflo and NMB fan product lines.
NMB-MAT offers a comprehensive line of cooling products, including AC and DC axial fans and blowers ranging from 25mm to 172mm in diameter. NMB-MAT leverages its expertise to develop and produce superior cooling fans and blowers.

Specifications: • Operating Temperature: -10°C ~ 60/70°C by model (65%RH)
Features: • Aerodynamic blade and venturi design • They are ideal when cooling a specific area that is surrounded by numerous components with minimum ventilation available.

Please Note: Custom Fan Cable Assemblies available upon request.

Rib Mount Type:

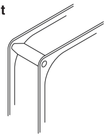

Flange Mount Type:

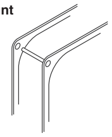

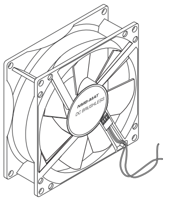

Dimensions (mm)	Operating Voltage (VDC)		Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (In H_2O)	Max. Noise (dB-A)	Lead Length (mm)	Bearing	Sensors	Mount Type	Digi-Key Part No.	Price Each			NMB Technologies Part No.	Finger Guards	Price Each
	Nom.	Range										1	5	10			
25x10	5	4.5 ~ 5.5	0.625	2.0	.20	25.0	200	Ball	—	Rib	P12806-ND◆	13.58	11.68	10.05	1004KL-01W-B50-B00	CR181-ND◆	.54
	12	8 ~ 13.8	0.72	2.0	.20	25.0	200	Ball	—	Rib	P12807-ND◆	13.58	11.68	10.05	1004KL-04W-B50-B00	CR181-ND◆	.54
	12	8 ~ 13.8	0.72	2.0	.20	25.0	200	Ball	Lock Rotor	Rib	P13383-ND◆	14.20	12.22	10.51	1004KL-04W-B59-B00	CR181-ND◆	.54
30x10	5	4.5 ~ 5.5	0.90	3.8	.216	27.0	200	Ball	—	Rib	P12808-ND◆	14.13	12.15	10.46	1204KL-01W-B50-B00	CR377-ND◆	.64
	5	4.5 ~ 5.5	0.90	3.8	.216	27.0	200	Ball	Lock Rotor	Rib	P13384-ND◆	14.75	12.69	10.92	1204KL-01W-B59-B00	CR377-ND◆	.64
	12	6 ~ 13.8	0.96	3.8	.216	27.0	200	Ball	—	Rib	P12809-ND◆	14.13	12.15	10.46	1204KL-04W-B50-B00	CR377-ND◆	.64
	12	6 ~ 13.8	0.96	3.8	.216	27.0	200	Ball	Lock Rotor	Rib	P13385-ND◆	14.75	12.69	10.92	1204KL-04W-B59-B00	CR377-ND◆	.64
35x10	5	4.5 ~ 5.5	1.05	5.6	.16	27.0	200	Ball	—	Rib	P12810-ND◆	14.13	12.15	10.46	1404KL-01W-B50-B00	CR378-ND◆	.66
	5	4.5 ~ 5.5	1.05	5.6	.16	27.0	200	Ball	Tac	Rib	P13386-ND◆	14.38	12.37	10.64	1404KL-01W-B59-B50	CR378-ND◆	.66
	12	8 ~ 13.8	0.96	5.6	.16	27.0	200	Ball	—	Rib	P12811-ND◆	14.13	12.15	10.46	1404KL-04W-B50-B00	CR378-ND◆	.66
	12	8 ~ 13.8	0.96	5.6	.16	27.0	200	Ball	Lock Rotor	Rib	P13387-ND◆	14.75	12.69	10.92	1404KL-04W-B59-B00	CR378-ND◆	.66
40x10	5	4.5 ~ 5.5	0.775	6.0	.184	29.0	200	Ball	—	Rib	P12812-ND◆	11.83	10.17	8.76	1604KL-01W-B50-B00	CR230-ND◆	.65
	5	4.5 ~ 5.5	0.775	6.0	.184	29.0	200	Ball	Lock Rotor	Rib	P13388-ND◆	12.45	10.71	9.22	1604KL-01W-B59-B00	CR230-ND◆	.65
	12	10.2 ~ 13.8	0.876	5.3	.136	25.0	200	Ball	—	Rib	P12813-ND◆	11.83	10.17	8.76	1604KL-04W-B40-B00	CR230-ND◆	.65
	12	10.2 ~ 13.8	0.876	6.0	.184	29.0	200	Ball	Lock Rotor	Rib	P13389-ND◆	12.45	10.71	9.22	1604KL-04W-B59-B00	CR230-ND◆	.65
40x15	5	4.5 ~ 5.5	0.600	6.0	.145	28.0	200	Ball	—	Rib	P12814-ND◆	11.83	10.17	8.76	1606KL-01W-B30-L00	CR230-ND◆	.65
	5	4.5 ~ 5.5	1.20	8.12	.252	34.0	200	Ball	—	Rib	P12815-ND◆	11.83	10.17	8.76	1606KL-01W-B50-L00	CR230-ND◆	.65
	5	4.5 ~ 5.5	1.20	8.1	.252	34.0	200	Ball	Lock Rotor	Rib	P13390-ND◆	12.45	10.71	9.22	1606KL-01W-B59-L00	CR230-ND◆	.65
	12	10.2 ~ 13.8	0.804	6.0	.145	28.0	200	Ball	—	Rib	P12816-ND◆	11.83	10.17	8.76	1606KL-04W-B30-L00	CR230-ND◆	.65
	12	10.2 ~ 13.8	1.02	8.12	.252	34.0	200	Ball	—	Rib	P12817-ND◆	11.83	10.17	8.76	1606KL-04W-B50-L00	CR230-ND◆	.65
	12	10.2 ~ 13.8	1.02	8.1	.252	34.0	200	Ball	Lock Rotor	Rib	P13391-ND◆	12.45	10.71	9.22	1606KL-04W-B59-L00	CR230-ND◆	.65
	24	22.0 ~ 25.2	1.488	8.1	.252	34.0	200	Ball	Lock Rotor	Rib	P13392-ND◆	12.45	10.71	9.22	1606KL-05W-B59-L00	CR230-ND◆	.65
40x20	5	4.5 ~ 5.5	0.35	4.9	.08	20.0	200	Ball	—	Rib	P12818-ND◆	11.83	10.17	8.76	1608KL-01W-B10-L00	CR230-ND◆	.65
	5	4.5 ~ 5.5	0.60	6.0	.12	22.5	200	Ball	—	Rib	P13576-ND◆	11.83	10.17	8.76	1608KL-01W-B20-L00	CR230-ND◆	.65
	5	4.5 ~ 5.5	1.35	8.4	.21	29.0	200	Ball	—	Rib	P13577-ND◆	11.83	10.17	8.76	1608KL-01W-B40-L00	CR230-ND◆	.65
	5	4.5 ~ 5.5	1.90	9.5	.28	33.0	200	Ball	—	Rib	P12819-ND◆	11.83	10.17	8.76	1608KL-01W-B50-L00	CR230-ND◆	.65
	5	4.5 ~ 5.5	1.90	9.5	.28	33.0	200	Ball	Lock Rotor	Rib	P13393-ND◆	12.45	10.71	9.22	1608KL-01W-B59-L00	CR230-ND◆	.65
	5	4.5 ~ 6.0	1.40	6.7	.256	33.0	300	Ball	—	Rib	P9701-ND◆	15.00	12.90	11.10	FBK04F05H	CR230-ND◆	.65
	12	10.2 ~ 13.8	0.48	4.9	.08	20.0	200	Ball	—	Rib	P12820-ND◆	11.83	10.17	8.76	1608KL-04W-B10-L00	CR230-ND◆	.65
	12	10.2 ~ 13.8	0.72	6.0	.12	22.5	200	Ball	—	Rib	P13578-ND◆	11.83	10.17	8.76	1608KL-04W-B20-L00	CR230-ND◆	.65
	12	10.2 ~ 13.8	0.72	6.0	.12	22.5	200	Ball	Lock Rotor	Rib	P13579-ND◆	12.45	10.71	9.22	1608KL-04W-B29-L00	CR230-ND◆	.65
	12	10.2 ~ 13.8	0.84	7.4	.17	25.5	200	Ball	—	Rib	P13580-ND◆	11.83	10.17	8.76	1608KL-04W-B30-L00	CR230-ND◆	.65
	12	10.2 ~ 13.8	1.08	8.4	.21	29.0	200	Ball	—	Rib	P13581-ND◆	11.83	10.17	8.76	1608KL-04W-B40-L00	CR230-ND◆	.65
	12	10.2 ~ 13.8	1.08	8.4	.21	29.0	200	Ball	Lock Rotor	Rib	P13582-ND◆	12.45	10.71	9.22	1608KL-04W-B49-L00	CR230-ND◆	.65
	12	10.2 ~ 13.8	1.32	9.5	.28	33.0	200	Ball	—	Rib	P12821-ND◆	11.83	10.17	8.76	1608KL-04W-B50-L00	CR230-ND◆	.65
	12	10.2 ~ 13.8	1.32	9.5	.28	33.0	200	Ball	Lock Rotor	Rib	P13394-ND◆	12.45	10.71	9.22	1608KL-04W-B59-L00	CR230-ND◆	.65
	24	20.0 ~ 25.2	0.96	4.9	.08	20.0	200	Ball	—	Rib	P12822-ND◆	11.83	10.17	8.76	1608KL-05W-B10-L00	CR230-ND◆	.65
	24	20.0 ~ 25.2	1.68	8.4	.21	29.0	200	Ball	—	Rib	P13585-ND◆	11.83	10.17	8.76	1608KL-05W-B40-L00	CR230-ND◆	.65
	24	20.0 ~ 25.2	1.92	9.5	.28	33.0	200	Ball	—	Rib	P12823-ND◆	11.83	10.17	8.76	1608KL-05W-B50-L00	CR230-ND◆	.65
	24	20.0 ~ 25.2	1.92	9.5	.28	33.0	200	Ball	Lock Rotor	Rib	P13395-ND◆	12.45	10.71	9.22	1608KL-05W-B59-L00	CR230-ND◆	.65
50x10	5	4.5 ~ 6.0	1.50	10.2	.14	34.0	200	Ball	—	Rib	P12824-ND◆	11.83	10.17	8.76	2004KL-01W-B50-B00	CR379-ND◆	.86
	5	4.5 ~ 6.0	1.50	10.2	.14	34.0	200	Ball	Lock Rotor	Rib	P13396-ND◆	12.45	10.71	9.22	2004KL-01W-B59-B00	CR379-ND◆	.86
	12	10.2 ~ 13.8	1.20	10.2	.14	34.0	200	Ball	—	Rib	P12825-ND◆	11.83	10.17	8.76	2004KL-04W-B50-B00	CR379-ND◆	.86
	12	10.2 ~ 13.8	1.20	10.2	.14	34.0	200	Ball	Lock Rotor	Rib	P13397-ND◆	12.45	10.71	9.22	2004KL-04W-B59-B00	CR379-ND◆	.86
52x15	12	10.2 ~ 13.0	1.56	14.1	.14	30.0	200	Ball	—	Rib	P12826-ND ◆	11.38	9.79	8.42	2106KL-04W-B50-L00	CR388-ND◆	.59
	12	10.2 ~ 13.0	1.56	14.1	.14	30.0	200	Ball	Lock Rotor	Rib	P13398-ND◆	12.00	10.32	8.88	2106KL-04W-B59-L00	CR388-ND◆	.59
60x15	12	7.0 ~ 13.8	0.48	6.7	.03	19.0	200	Ball	—	Rib	P12827-ND◆	11.13	9.57	8.24	2406KL-04W-B10-L00	CR221-ND◆	.68
	12	6.0 ~ 13.8	1.08	14.1	.13	28.0	200	Ball	—	Rib	P13494-ND◆	11.13	9.57	8.24	2406KL-04W-B30-L00	CR221-ND◆	.68
	12	6.0 ~ 13.8	1.08	14.1	.13	28.0	200	Ball	Lock Rotor	Rib	P13495-ND◆	11.75	10.11	8.70	2406KL-04W-B39-L00	CR221-ND◆	.68
	12	6.0 ~ 13.8	1.92	18.3	.20	34.0	200	Ball	—	Rib	P12828-ND◆	11.13	9.57	8.24	2406KL-04W-B50-L00	CR221-ND◆	.68
	12	6.0 ~ 13.8	1.92	18.3	.20	34.0	200	Ball	Lock Rotor	Rib	P13399-ND◆	11.75	10.11	8.70	2406KL-04W-B59-L00	CR221-ND◆	.68
	24	12.0 ~ 27.6	1.44	14.1	.13	28.0	200	Ball	—	Rib	P13496-ND◆	11.13	9.57	8.24	2406KL-05W-B30-L00	CR221-ND◆	.68
	24	10.0 ~ 27.6	2.40	18.3	.20	34.0	200	Ball	—	Rib	P12829-ND◆	11.13	9.57	8.24	2406KL-05W-B50-L00	CR221-ND◆	.68
	24	14 ~ 27.6	1.99	16.6	.187	32.0	325	Hydrowave	—	Rib	P9727-ND◆	10.00	8.60	7.40	FBA06T24H	CR221-ND◆	.68
60x20	12	6.0 ~ 13.8	0.60	10.9	.07	22.5	300	Ball	—	Rib	P12830-ND◆	11.25	9.68	8.33	2408NL-04W-B10-L00	CR221-ND◆	.68
	12	6.0 ~ 13.8	1.32	17.6	.16	31.5	300	Ball	—	Rib	P12831-ND◆	11.25	9.68	8.33	2408NL-04W-B50-L00	CR221-ND◆	.68
	12	6.0 ~ 13.8	1.32	17.6	.16	31.5	300	Ball	Lock Rotor	Rib	P13400-ND◆	11.88	10.22	8.79	2408NL-04W-B59-L00	CR221-ND◆	.68
	12	6.0 ~ 13.8	1.32	17.6	.16	31.5	300	Ball	Lock Rotor	Flange	P13402-ND◆	11.88	10.22	8.79	2408NL-04W-B59-P00	CR221-ND◆	.68
	24	15.0 ~ 27.6	1.20	15.9	.13	29.0	300	Ball	—	Rib	P12832-ND◆	11.25	9.68	8.33	2408NL-05W-B40-L00	CR221-ND◆	.68
	24	15.0 ~ 27.6	1.32	17.6	.16	31.5	300	Ball	Lock Rotor	Rib	P13401-ND◆	11.88	10.22	8.79	2408NL-05W-B59-L00	CR221-ND◆	.68
60x25	12	6.0 ~ 13.8	0.90	13.7	.08	23.0	300	Ball	—	Rib	P12833-ND◆	10.83	9.31	8.02	2410ML-04W-B10-B00	CR221-ND◆	.68
	12	6.0 ~ 13.8	2.04	21.5	.20	33.5	300	Ball	—	Rib	P12834-ND◆	10.83	9.31	8.02	2410ML-04W-B40-B00	CR221-ND◆	.68
	12	6.0 ~ 13.8	1.80	24.0	.20	33.5	300	Ball	Lock Rotor	Rib	P13403-ND◆	8.08	6.95	5.98	2410RL-04W-B59-C00	CR221-ND◆	.68
	12	6.0 ~ 13.8	3.24	28.5	.27	38.0	300	Ball	Lock Rotor	Rib	P13404-ND◆	8.08	6.95	5.98	2410RL-04W-B79-C00	CR221-ND◆	.68
	12	6.0 ~ 13.2	6.20	37.0	.57	46.0	300	Ball	Tac	Flange	P13406-ND◆	12.70	10.93	9.40	2410ML-04W-B89-E50	CR221-ND◆	.68
	24	10.0 ~ 27.6	2.40	23.3	.25	36.5	300	Ball	—	Rib	P12835-ND◆	10.83	9.31	8.02	2410ML-05W-B50-B00	CR221-ND◆	.68
	24	10.0 ~ 27.6	4.80	28.5	.27	38.0	300	Ball	Lock Rotor	Rib	P13405-ND◆	8.08	6.95	5.98	2410RL-05W-B79-C00	CR221-ND◆	.68
	24	10.0 ~ 26.4	8.16	34.59	.482	50.0	300	Ball	Tac	Flange	P13407-ND◆	11.50	9.89	8.51	2410ML-05W-B89-E50	CR221-ND◆	.68
	24	10.0 ~ 26.4	8.16	34.59	.482	50.0	300	Ball	—	Flange	P13483-ND◆	12.08	10.39	8.94	2410ML-05W-B80-E00	CR221-ND◆	.68

◆ ***RoHS Compliant***

(Continued)

DC Axial Fans *(Cont.)*

Dimensions (mm)	Operating Voltage (VDC)		Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (In H_2O)	Max. Noise (dB-A)	Lead Length (mm)	Bearing	Sensors	Mount Type	Digi-Key Part No.	Price Each			NMB Technologies Part No.	Finger Guards	Price Each
	Nom.	Range										1	5	10			
60x25.5	12	7 ~ 13.8	2.52	20.5	.236	37.0	315	Hydrowave	—	Flange	P9758-ND◆	8.25	7.10	6.11	FBA06A12U1A	CR221-ND◆	.68
	12	7 ~ 13.8	2.52	20.5	.236	37.0	315	Hydrowave	Lock Rotor	Flange	P9995-ND◆	8.50	7.31	6.29	FBA06A12U1BS	CR221-ND◆	.68
	12	7 ~ 13.8	2.04	19.1	.20	32.0	315	Hydrowave	—	Flange	P9729-ND◆	8.25	7.10	6.11	FBA06A12H1A	CR221-ND◆	.68
	12	7 ~ 13.8	2.04	19.1	.20	32.0	315	Hydrowave	Tac	Flange	P11033-ND◆	8.75	7.53	6.48	FBA06A12H1BX	CR221-ND◆	.68
	12	7 ~ 13.8	1.56	16.6	.15	28.0	315	Hydrowave	—	Flange	P9767-ND◆	8.25	7.10	6.11	FBA06A12M1A	CR221-ND◆	.68
	12	7 ~ 13.8	1.32	14.1	.12	24.0	315	Hydrowave	—	Flange	P9728-ND◆	8.25	7.10	6.11	FBA06A12L1A	CR221-ND◆	.68
	12	7 ~ 13.8	1.32	14.1	.12	24.0	315	Hydrowave	Tac	Flange	P11034-ND◆	8.75	7.53	6.48	FBA06A12L1BX	CR221-ND◆	.68
	24	14 ~ 27.6	2.52	19.1	.20	32.0	315	Hydrowave	—	Flange	P9731-ND◆	8.25	7.10	6.11	FBA06A24H1A	CR221-ND◆	.68
	24	14 ~ 27.6	2.16	16.6	.15	28.0	315	Hydrowave	—	Flange	P9768-ND◆	8.25	7.10	6.11	FBA06A24M1A	CR221-ND◆	.68
	24	14 ~ 27.6	1.68	14.1	.12	24.0	315	Hydrowave	—	Flange	P9730-ND◆	8.25	7.10	6.11	FBA06A24L1A	CR221-ND◆	.68
80x15	12	6.0 ~ 13.8	1.32	23.3	.06	26.0	300	Ball	—	Rib	P13571-ND◆	12.08	10.39	8.94	3106KL-04W-B30-B02	CR180-ND◆	.93
	12	6.0 ~ 13.8	1.32	23.3	.06	26.0	300	Ball	Lock Rotor	Rib	P13572-ND◆	12.70	10.93	9.40	3106KL-04W-B39-B00	CR180-ND◆	.93
	12	6.0 ~ 13.0	2.76	32.8	.12	34.0	300	Ball	—	Rib	P13498-ND◆	12.08	10.39	8.94	3106KL-04W-B50-B01	CR180-ND◆	.93
	12	6.0 ~ 13.0	2.76	32.8	.12	34.0	300	Ball	Lock Rotor	Rib	P13570-ND◆	12.70	10.93	9.40	3106KL-04W-B59-B00	CR180-ND◆	.93
	24	10.0 ~ 27.6	1.68	23.3	.06	26.0	300	Ball	—	Rib	P13575-ND◆	12.08	10.39	8.94	3106KL-05W-B30-B00	CR180-ND◆	.93
	24	10.0 ~ 27.6	2.88	32.8	.12	34.0	300	Ball	—	Rib	P13573-ND◆	12.08	10.39	8.94	3106KL-05W-B50-B00	CR180-ND◆	.93
	24	10.0 ~ 27.6	2.88	32.8	.12	34.0	300	Ball	Lock Rotor	Rib	P13574-ND◆	13.00	11.18	9.62	3106KL-05W-B59-B00	CR180-ND◆	.93
80x20	12	6.0 ~ 13.8	1.08	26.5	.08	26.0	300	Ball	—	Flange	P12836-ND◆	11.55	9.94	8.55	3108NL-04W-B10-P00	CR180-ND◆	.93
	12	6.0 ~ 13.8	3.36	44.0	.20	42.0	300	Ball	—	Flange	P12837-ND◆	11.55	9.94	8.55	3108NL-04W-B50-P00	CR180-ND◆	.93
	12	6.0 ~ 13.8	3.36	44.0	.20	42.0	300	Ball	Lock Rotor	Rib	P13408-ND◆	12.18	10.47	9.01	3108NL-04W-B59-L00	CR180-ND◆	.93
	24	15.0 ~ 27.6	1.30	26.5	.08	26.0	300	Ball	—	Flange	P12838-ND◆	11.55	9.94	8.55	3108NL-05W-B10-P00	CR180-ND◆	.93
	24	15.0 ~ 27.6	3.60	44.0	.20	42.0	300	Ball	—	Flange	P12839-ND◆	11.55	9.94	8.55	3108NL-05W-B50-P00	CR180-ND◆	.93
	24	15.0 ~ 27.6	3.60	44.0	.20	42.0	300	Ball	Lock Rotor	Flange	P13409-ND◆	12.18	10.47	9.01	3108NL-05W-B59-P00	CR180-ND◆	.93
80x25	12	6.0 ~ 13.8	1.20	24.7	.07	22.0	300	Ball	—	Flange	P13485-ND◆	11.55	9.94	8.55	3110KL-04W-B10-D00	CR180-ND◆	.93
	12	6.0 ~ 13.8	2.04	31.8	.10	26.5	300	Ball	—	Flange	P13486-ND◆	11.55	9.94	8.55	3110KL-04W-B30-D00	CR180-ND◆	.93
	12	6.0 ~ 13.8	2.76	38.8	.15	34.0	300	Ball	—	Flange	P13487-ND◆	11.55	9.94	8.55	3110KL-04W-B50-D00	CR180-ND◆	.93
	12	6.0 ~ 13.0	3.12	40.2	.16	35.0	300	Ball	Lock Rotor	Flange	P13488-ND◆	12.18	10.47	9.01	3110KL-04W-B69-D00	CR180-ND◆	.93
	24	10.0 ~ 27.6	1.44	24.7	.07	22.0	300	Ball	—	Flange	P13489-ND◆	11.55	9.94	8.55	3110KL-05W-B10-D00	CR180-ND◆	.93
	24	10.0 ~ 27.6	2.88	38.8	.15	34.0	300	Ball	—	Flange	P13490-ND◆	11.55	9.94	8.55	3110KL-05W-B50-D00	CR180-ND◆	.93
	24	10.0 ~ 26.4	3.36	40.2	.16	35.0	300	Ball	Lock Rotor	Flange	P13491-ND◆	12.18	10.47	9.01	3110KL-05W-B69-D00	CR180-ND◆	.93
80x25.5	12	7 ~ 13.8	3.24	46.9	.189	38.2	300	Hydrowave	—	Flange	P9759-ND◆	8.25	7.10	6.11	FBA08A12U1A	CR180-ND◆	.93
	12	7 ~ 13.8	3.24	46.9	.189	38.2	300	Hydrowave	Lock Rotor	Flange	P9997-ND◆	8.50	7.31	6.29	FBA08A12U1BS	CR180-ND◆	.93
	12	7 ~ 13.8	2.08	39.6	.148	32.0	300	Hydrowave	—	Flange	P9738-ND◆	8.25	7.10	6.11	FBA08A12H1A	CR180-ND◆	.93
	12	7 ~ 13.8	2.08	39.6	.148	32.0	300	Hydrowave	—	Rib	P11035-ND◆	8.00	6.88	5.92	FBA08A12H1AZ	CR180-ND◆	.93
	12	7 ~ 13.8	2.08	39.6	.148	32.0	300	Hydrowave	Lock Rotor	Flange	P11036-ND◆	8.50	7.31	6.29	FBA08A12H1BS	CR180-ND◆	.93
	12	7 ~ 13.8	1.49	32.1	.098	28.0	300	Hydrowave	—	Flange	P9737-ND◆	8.25	7.10	6.11	FBA08A12M1A	CR180-ND◆	.93
	12	7 ~ 13.8	1.49	32.1	.098	28.0	300	Hydrowave	Lock Rotor	Flange	P11038-ND◆	8.50	7.31	6.29	FBA08A12M1BS	CR180-ND◆	.93
	12	7 ~ 13.8	1.49	32.1	.098	28.0	300	Hydrowave	Tac	Flange	P11039-ND◆	8.75	7.53	6.48	FBA08A12M1BX	CR180-ND◆	.93
	12	7 ~ 13.8	0.82	24.0	.061	21.0	300	Hydrowave	—	Flange	P9736-ND◆	8.25	7.10	6.11	FBA08A12L1A	CR180-ND◆	.93
	12	7 ~ 13.8	0.82	24.0	.061	21.0	300	Hydrowave	—	Rib	P11037-ND◆	8.25	7.10	6.11	FBA08A12L1AZ	CR180-ND◆	.93
	24	14 ~ 27.6	2.52	39.6	.148	32.0	300	Hydrowave	—	Flange	P9741-ND◆	8.25	7.10	6.11	FBA08A24H1A	CR180-ND◆	.93
	24	14 ~ 27.6	2.52	39.6	.148	32.0	300	Hydrowave	Tac	Flange	P11097-ND◆	11.50	10.07	8.63	FBA08A24H1CX	CR180-ND◆	.93
	24	14 ~ 27.6	1.70	32.1	.098	28.0	300	Hydrowave	—	Flange	P9740-ND◆	8.25	7.10	6.11	FBA08A24M1A	CR180-ND◆	.93
	24	14 ~ 27.6	1.30	24.0	.061	21.0	300	Hydrowave	—	Flange	P9739-ND◆	8.25	7.10	6.11	FBA08A24L1A	CR180-ND◆	.93
80x32	12	6.0 ~ 13.8	3.00	46.9	.22	37.0	300	Ball	—	Flange	P12845-ND◆	12.33	10.60	9.13	3112KL-04W-B40-E00	CR180-ND◆	.93
	12	6.0 ~ 12.6	5.40	58.6	.32	44.0	300	Ball	Lock Rotor	Flange	P13412-ND◆	12.95	11.14	9.59	3112KL-04W-B69-E00	CR180-ND◆	.93
	24	10.0 ~ 27.6	3.36	46.9	.22	37.0	300	Ball	—	Flange	P12846-ND◆	12.33	10.60	9.13	3112KL-05W-B40-E00	CR180-ND◆	.93
	24	10.0 ~ 25.2	5.04	58.6	.32	44.0	300	Ball	Lock Rotor	Flange	P13413-ND◆	12.95	11.14	9.59	3112KL-05W-B69-E00	CR180-ND◆	.93
92x25	12	6.0 ~ 13.8	0.876	26.5	.06	25.0	300	Ball	—	Flange	P13415-ND◆	12.75	10.97	9.44	3610KL-04W-B10-D00	CR220-ND◆	.77
	12	6.0 ~ 13.8	2.64	47.6	.15	37.5	300	Ball	—	Flange	P12847-ND◆	12.75	10.97	9.44	3610KL-04W-B40-D00	CR220-ND◆	.77
	12	6.0 ~ 13.8	2.64	47.6	.15	37.5	300	Ball	Lock Rotor	Rib	P13414-ND◆	13.38	11.51	9.90	3610KL-04W-B49-G00	CR220-ND◆	.77
	24	10.0 ~ 25.0	3.84	54.7	.19	41.0	300	Ball	—	Rib	P12848-ND◆	12.75	10.97	9.44	3610KL-05W-B50-D00	CR220-ND◆	.77
92x25.5	12	7 ~ 13.8	5.16	68.8	.197	43.0	295	Hydrowave	—	Flange	P9760-ND ◆	8.25	7.10	6.11	FBA09A12U1A	CR220-ND◆	.77
	12	7 ~ 13.8	5.16	68.8	.197	43.0	295	Hydrowave	Lock Rotor	Rib	P11044-ND◆	8.50	7.31	6.29	FBA09A12U1BO	CR220-ND◆	.77
	12	7 ~ 13.8	5.16	68.8	.197	43.0	295	Hydrowave	Tac	Flange	P9975-ND ◆	8.75	7.53	6.48	FBA09A12U1BX	CR220-ND◆	.77
	12	7 ~ 13.8	2.70	56.8	.148	35.0	295	Hydrowave	—	Flange	P9744-ND◆	8.25	7.10	6.11	FBA09A12H1A	CR220-ND◆	.77
	12	7 ~ 13.8	2.70	56.8	.148	35.0	295	Hydrowave	—	Flange	P11040-ND◆	8.25	7.10	6.11	FBA09A12H1AZ	CR220-ND◆	.77
	12	7 ~ 13.8	2.70	56.8	.148	35.0	295	Hydrowave	Lock Rotor	Rib	P11041-ND◆	8.50	7.31	6.29	FBA09A12H1BO	CR220-ND◆	.77
	12	7 ~ 13.8	2.70	56.8	.16	35.0	295	Hydrowave	Tac	Flange	P13481-ND	9.00	7.74	6.66	FBA09A12H1BQ	CR220-ND◆	.77
	12	7 ~ 13.8	2.70	56.8	.148	35.0	295	Hydrowave	Tac	Flange	P11042-ND◆	8.75	7.53	6.48	FBA09A12H1BX	CR220-ND◆	.77
	12	7 ~ 13.8	1.80	48.0	.118	30.0	295	Hydrowave	—	Flange	P9743-ND◆	8.25	7.10	6.11	FBA09A12M1A	CR220-ND◆	.77
	12	7 ~ 13.8	1.32	42.7	.09	27.0	295	Hydrowave	—	Flange	P9742-ND◆	8.25	7.10	6.11	FBA09A12L1A	CR220-ND◆	.77
	12	7 ~ 13.8	1.32	42.7	.09	27.0	295	Hydrowave	Tac	Flange	P11043-ND◆	8.75	7.53	6.48	FBA09A12L1BX	CR220-ND◆	.77
	24	12 ~ 27.6	7.2	68.8	.181	47.0	295	Hydrowave	Tac	Flange	P11096-ND◆	8.75	7.53	6.48	FBA09A24U1BX	CR220-ND◆	.77
	24	14 ~ 27.6	3.36	56.8	.148	35.0	295	Hydrowave	—	Flange	P9747-ND◆	8.25	7.10	6.11	FBA09A24H1A	CR220-ND◆	.77
	24	14 ~ 27.6	3.36	56.8	.148	35.0	295	Hydrowave	—	Rib	P11045-ND◆	8.25	7.10	6.11	FBA09A24H1AZ	CR220-ND◆	.77
	24	14 ~ 27.6	3.36	56.8	.148	35.0	295	Hydrowave	Lock Rotor	Flange	P11046-ND◆	8.50	7.31	6.29	FBA09A24H1BS	CR220-ND◆	.77
	24	14 ~ 27.6	3.36	56.8	.148	35.0	295	Hydrowave	Tac	Flange	P11047-ND◆	8.75	7.53	6.48	FBA09A24H1BX	CR220-ND◆	.77
	24	14 ~ 27.6	2.64	48.0	.118	30.0	295	Hydrowave	—	Flange	P9746-ND◆	8.25	7.10	6.11	FBA09A24M1A	CR220-ND◆	.77
	24	14 ~ 27.6	1.92	42.7	.09	27.0	295	Hydrowave	—	Flange	P9745-ND◆	8.25	7.10	6.11	FBA09A24L1A	CR220-ND◆	.77
92x38	12	7.0 ~ 13.2	4.08	68.5	.29	44.0	300	Ball	—	Flange	P12849-ND◆	20.85	17.94	15.43	3615KL-04W-B40-P00	CR220-ND◆	.77
	12	7.0 ~ 12.6	5.52	76.2	.36	46.5	300	Ball	Lock Rotor	Flange	P13416-ND◆	21.48	18.47	15.90	3615KL-04W-B59-P00	CR220-ND◆	.77
	24	12.0 ~ 25.2	5.76	76.2	.36	46.5	300	Ball	—	Flange	P12850-ND◆	20.85	17.94	15.43	3615KL-05W-B50-P00	CR220-ND◆	.77
	24	12.0 ~ 25.2	5.76	76.2	.36	46.5	300	Ball	Lock Rotor	Flange	P13417-ND◆	21.48	18.47	15.90	3615KL-05W-B59-P00	CR220-ND◆	.77
119x25	12	6.0 ~ 13.8	1.44	63.5	.07	27.0	300	Ball	—	Rib	P13418-ND◆	15.90	13.68	11.77	4710KL-04W-B10-E00	CR210-ND◆	1.72
	12	6.0 ~ 13.0	6.60	114.7	.20	41.5	300	Ball	Lock Rotor	Flange	P13420-ND◆	16.53	14.22	12.23	4710KL-04W-B59-E00	CR210-ND◆	1.72
	12	6.0 ~ 13.0	6.60	114.7	.20	41.5	300	Ball	—	Flange	P13448-ND◆	15.90	13.68	11.77	4710KL-04W-B50-E00	CR210-ND◆	1.72
	24	10.0 ~ 27.6	1.92	63.5	.07	27.0	300	Ball	—	Flange	P13449-ND◆	15.90	13.68	11.77	4710KL-05W-B10-E00	CR210-ND◆	1.72
	24	10.0 ~ 26.0	6.96	114.7	.20	41.5	300	Ball	—	Flange	P13447-ND◆	15.90	13.68	11.77	4710KL-05W-B50E00	CR210-ND◆	1.72
	24	10.0 ~ 26.0	6.96	114.7	.20	41.5	300	Ball	Lock Rotor	Flange	P13419-ND◆	16.53	14.22	12.23	4710KL-05W-B59-E00	CR210-ND◆	1.72
119x32	12	6.0 ~ 13.8	1.92	56.1	.09	29.0	300	Ball	—	Flange	P12854-ND◆	22.00	18.92	16.28	4712KL-04W-B10-P00	CR210-ND◆	1.72
	12	6.0 ~ 13.8	8.28	112.0	.33	47.0	300	Ball	—	Flange	P12855-ND◆	22.00	18.92	16.28	4712KL-04W-B50-P00	CR210-ND◆	1.72
	12	6.0 ~ 13.8	8.28	112.0	.33	47.0	300	Ball	Lock Rotor	Flange	P13421-ND◆	22.63	19.46	16.75	4712KL-04W-B59-P00	CR210-ND◆	1.72
	24	12.0 ~ 27.6	8.16	112.0	.33	47.0	300	Ball	Lock Rotor	Flange	P13422-ND◆	22.63	19.46	16.75	4712KL-05W-B49-P00	CR210-ND◆	1.72
	48	28.0 ~ 55.2	10.08	112.0	.33	47.0	300	Ball	Lock Rotor	Flange	P13423-ND◆	22.63	19.46	16.75	4712KL-07W-B49-P00	CR210-ND◆	1.72

◆ ***RoHS Compliant***

(Continued)

DC Axial Fans *(Cont.)*

Dimensions (mm)	Operating Voltage (VDC) Nom.	Range	Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (In H_2O)	Max. Noise (dB-A)	Lead Length (mm)	Bearing	Sensors	Mount Type	Digi-Key Part No.	Price Each 1	5	10	NMB Technologies Part No.	Finger Guards	Price Each
119x38	12	6.0 ~ 13.8	6.60	108.0	.27	42.5	300	Ball	—	Flange	P12857-ND◆	19.40	16.69	14.36	4715KL-04W-B30-P00	CR210-ND◆	1.72
	12	6.0 ~ 13.8	8.40	118.0	.33	46.5	300	Ball	—	Flange	P12858-ND◆	19.40	16.69	14.36	4715KL-04W-B40-P00	CR210-ND◆	1.72
	12	8.0 ~ 13.2	17.50	162.0	.69	56.5	300	Ball	—	Flange	P12862-ND◆	53.48	45.99	39.58	4715SL-04W-B50-D00	CR210-ND◆	1.72
	12	9.5 ~ 12.6	12.0	129.9	.44	50.0	300	Ball	Lock Rotor	Flange	P13424-ND◆	20.03	17.23	14.82	4715KL-04W-B59-P00	CR210-ND◆	1.72
	12	8.0 ~ 12.9	23.0	181.0	.85	59.5	300	Ball	Lock Rotor	Flange	P13427-ND◆	54.10	46.53	40.04	4715SL-04W-B69-D00	CR210-ND◆	1.72
	24	10.0 ~ 27.6	7.44	108.0	.27	42.5	300	Ball	—	Flange	P12859-ND◆	19.40	16.69	14.36	4715KL-05W-B30-P00	CR210-ND◆	1.72
	24	10.0 ~ 27.6	8.40	118.0	.33	46.5	300	Ball	—	Flange	P12860-ND◆	19.40	16.69	14.36	4715KL-05W-B40-P00	CR210-ND◆	1.72
	24	15.0 ~ 27.6	17.80	162.0	.69	56.5	300	Ball	—	Flange	P12863-ND◆	53.48	45.99	39.58	4715SL-05W-B50-D00	CR210-ND◆	1.72
	24	18.0 ~ 25.0	12.0	130.0	.44	50.0	300	Ball	Lock Rotor	Flange	P13425-ND◆	20.03	17.23	14.82	4715KL-05W-B59-P00	CR210-ND◆	1.72
	48	25.0 ~ 55.2	7.68	108.0	.27	42.5	300	Ball	—	Flange	P12861-ND◆	19.40	16.69	14.36	4715KL-07W-B30-P00	CR210-ND◆	1.72
	48	25.0 ~ 55.2	7.68	108.0	.27	42.5	300	Ball	Lock Rotor	Flange	P13426-ND◆	20.03	17.23	14.82	4715KL-07W-B39-P00	CR210-ND◆	1.72
	48	30.0 ~ 50.4	39.84	201.0	1.04	62.3	300	Ball	Lock Rotor	Flange	P13430-ND◆	66.13	56.87	48.94	4715SL-07W-B79-D00	CR210-ND◆	1.72
120x38	12	7 ~ 13.8	7.80	114.7	.315	45.5	280	Hydrowave	—	Flange	P9761-ND◆	18.13	15.59	13.42	FBA12G12U1A	CR210-ND◆	1.72
	12	7 ~ 13.8	5.52	103.8	.267	41.5	280	Hydrowave	—	Flange	P9750-ND◆	18.13	15.59	13.42	FBA12G12H1A	CR210-ND◆	1.72
	12	7 ~ 13.8	5.52	103.8	.267	41.5	280	Hydrowave	—	Rib	P11048-ND◆	18.13	15.59	13.42	FBA12G12H1AZ	CR210-ND◆	1.72
	12	7 ~ 13.8	5.52	103.8	.267	41.5	280	Hydrowave	Tac	Flange	P11050-ND	18.63	16.02	13.79	FBA12G12H1BX	CR210-ND◆	1.72
	12	7 ~ 13.8	4.08	86.5	.189	35.5	280	Hydrowave	—	Flange	P9749-ND◆	18.13	15.59	13.42	FBA12G12M1A	CR210-ND◆	1.72
	12	7 ~ 13.8	2.16	68.9	.130	30.0	280	Hydrowave	—	Flange	P9748-ND◆	18.13	15.59	13.42	FBA12G12L1A	CR210-ND◆	1.72
	24	14 ~ 27.6	5.52	103.8	.267	41.5	280	Hydrowave	—	Flange	P9753-ND◆	17.88	15.38	13.23	FBA12G24H1A	CR210-ND◆	1.72
	24	14 ~ 27.6	5.52	103.8	.267	41.5	280	Hydrowave	Tac	Flange	P11080-ND◆	18.63	16.02	13.79	FBA12G24H1BX	CR210-ND◆	1.72
	24	14 ~ 27.6	3.84	86.5	.189	35.5	280	Hydrowave	—	Flange	P9752-ND◆	17.88	15.38	13.23	FBA12G24M1A	CR210-ND◆	1.72
	24	14 ~ 27.6	2.64	68.9	.130	30.0	280	Hydrowave	—	Flange	P9751-ND◆	17.88	15.38	13.23	FBA12G24L1A	CR210-ND◆	1.72
150x172x25	12	6.0 ~ 18.0	24.7	250	.65	62.5	400	Ball	—	Rib	P12864-ND◆	76.63	65.90	56.71	5910PL-04W-B50-L00	CR191-ND◆	2.48
	24	12.0 ~ 30.0	24.0	250.0	.65	62.5	400	Ball	—	Rib	P12865-ND◆	76.63	65.90	56.71	5910PL-05W-B50-L00	CR191-ND◆	2.48
	24	12.0 ~ 30.0	24.0	250.0	.65	62.5	400	Ball	Tac	Rib	P13431-ND◆	77.25	66.44	57.17	5910PL-05W-B59-L50	CR191-ND◆	2.48
	48	25.0 ~ 60.0	35.5	290.0	.89	65.4	400	Ball	Lock Rotor	Rib	P13432-ND◆	77.25	66.44	57.17	5910PL-07W-B79-L00	CR191-ND◆	2.48
150x172x50	12	6.0 ~ 18.0	17.28	240	.62	58.0	300	Ball	—	Flange	P12866-ND◆	73.75	63.43	54.58	5920PL-04W-B40-D00	CR191-ND◆	2.48
	12	6.0 ~ 18.0	17.28	240.0	.62	58.0	300	Ball	Tac	Flange	P13433-ND◆	74.38	63.97	55.04	5920PL-04W-B49-D50	CR191-ND◆	2.48
	24	12.0 ~ 30.0	15.84	240	.62	58.0	300	Ball	—	Flange	P12867-ND◆	73.75	63.43	54.58	5920PL-05W-B40-D00	CR191-ND◆	2.48
	24	12.0 ~ 30.0	15.84	240.0	.62	58.0	300	Ball	Tac	Flange	P13434-ND◆	74.38	63.97	55.04	5920PL-05W-B49-D50	CR191-ND◆	2.48
	48	25.0 ~ 60.0	24.48	300.0	.90	63.2	300	Ball	Tac	Flange	P13435-ND◆	74.38	63.97	55.04	5920PL-07W-B79-D50	CR191-ND◆	2.48
	12	6.0 ~ 18.0	17.28	240	.62	58.0	300	Ball	—	Flange	P12868-ND◆	73.75	63.43	54.58	6820PL-04W-B40-D00	CR196-ND◆	3.02
172x50	24	12.0 ~ 30.0	15.84	240	.62	58.0	300	Ball	—	Flange	P12869-ND◆	73.75	63.43	54.58	6820PL-05W-B40-D00	CR196-ND◆	3.02
	48	25.0 ~ 60.0	15.84	240	.62	58.0	300	Ball	—	Flange	P12870-ND◆	73.75	63.43	54.58	6820PL-07W-B40-D00	CR196-ND◆	3.02

◆ ***RoHS Compliant***

DC Fans UDQ Series

SPECIFICATIONS:

- **Operating Temperature:** 0°C ~ 70°C • **Operating Humidity:** <85 Rh% • **Operating Voltgage (VDC): Nom:** 5, **Range:** 3.1 ~ 5.5 • **Life Expectancy (Hrs @ 60°C):** 30,000

Note: Not for New Design

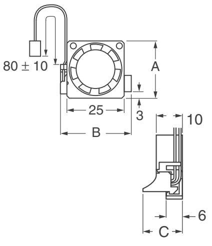

Dimensions (mm) A	B	C	Current @ 60°C (mA)	Speed @ 60°C (r/min)	Max Air Flow @ 60°C (m3/min.)	(CFM)	Max Air Pressure @ 60°C (Pa)	(in H2O)	Noise @ 1M dBA	Digi-Key Part No.	Price Each 1	5	10	50	100	NMB Technologies Part No.
25	25	10	40	7,800	0.040	1.41	24	0.10	17	P11093-ND	13.75	11.83	10.18	9.13	8.25	UDQFBFM01CP1
30	30	10	90	8,500	0.10	3.60	35	0.14	26	P11085-ND‡	20.00	17.20	14.80	13.28	12.00	UDQFHBB01-P1
30	30	10	50	6,000	0.065	2.29	17	0.07	18	P11094-ND	13.75	11.83	10.18	9.13	8.25	UDQFHFM01P1

‡ Ball Bearings

DC Blowers

NMB-MAT DC Blowers are most suitable for cooling in high back pressure applications. Since the fan impeller is housed inside a rugged plastic enclosure, the blower is not affected by high back pressure caused by objects in close proximity to the exhaust port.

Specifications: • Operating Temperature: -10°C ~ 60°C • Storage Temperature: -40°C ~ 75°C • Blowers with Hydro-Wave and Ball Bearing Technology

Fig. 1

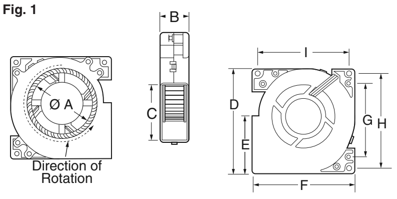

Fig. 2

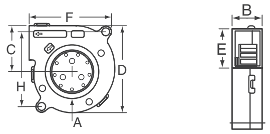

Model Type	Dimensions (mm) A	B	C	D	E	F	G	H	I
FAL-6F	65.8	28.1	55.7	111.4	60.7	107.1	76	99	97
FAL-5F	50	28	37	76	41	76	47	68	68
FAL-3F	33.2	20	26.8	50	26.8	50	29.6	43	43
BM5115	32	15	27	51	20	51	—	43	—
BM5125	32	25	27	51	20	51	—	43	—
BM6015	—	15	32	60	30	60	—	23	—
BG0702	—	25	39.9	75.7	39.9	75.7	—	67.1	—
BG0703	—	30	39.9	75.7	39.9	75.7	—	67.1	—
BG0903	—	33	58	93.5	53	97	—	71	—
BG1203	—	32	55	120	61	120	—	105	90

Fig.	Operating Voltage (VDC) Nom.	Range	Input Current (mA)	Power (W)	Air Flow CFM	Static Pressure In H2O	Noise	Digi-Key Part No.	Price Each 1	5	10	NMB Technologies Part No.
1	12	7~13.8	500	6.00	22.97	0.71	45	P9754-ND◆	30.00	25.80	22.20	FAL6F12LH
	12	7~13.8	280	3.36	18.73	0.44	40	P9755-ND◆	30.00	25.80	22.20	FAL6F12LL
	24	14~27.6	295	7.08	23.7	0.78	45	P9763-ND◆	30.00	25.80	22.20	FAL6F24LH
	24	14~27.6	155	3.72	18.7	0.45	40	P9764-ND	30.00	25.80	22.20	FAL6F24LL
1	12	7~13.8	210	2.52	10.60	0.41	35	P9756-ND◆	27.50	23.65	20.35	FAL5F12LH
	12	7~13.8	145	1.74	8.83	0.24	29	P9757-ND◆	27.50	23.65	20.35	FAL5F12LL
	24	14~27.6	150	3.50	9.18	0.28	40	P9765-ND	27.50	23.65	20.35	FAL5F24LH
	24	14~27.6	100	2.40	7.06	0.16	37.5	P9766-ND◆	27.50	23.65	20.35	FAL5F24LL
1	5	4.5~6	320	1.60	3.17	0.24	34	P9772-ND◆	21.25	18.28	15.73	FAL3F05LL
	5	4.5~6	570	2.85	4.24	0.39	40	P9773-ND◆	21.25	18.28	15.73	FAL3F05LH
	12	7~13.8	170	2.04	3.17	0.24	34	P9774-ND◆	21.25	18.28	15.73	FAL3F12LL
	12	7~13.8	270	3.24	4.24	0.39	40	P9775-ND◆	21.25	18.28	15.73	FAL3F12LH
	24	14~27.6	150	3.60	4.24	0.39	40	P9776-ND◆	21.25	18.28	15.73	FAL3F24LH
2	12	10.2~13.8	120	1.44	3.5	0.48	35	P12901-ND◆	12.75	10.97	9.44	BM5115-04W-B40-L00
	12	10.2~13.8	180	2.16	3.5	.80	42	P13437-ND‡	13.38	11.51	9.90	BM5115-04W-B59-L00
2	12	10.2~13.8	130	1.56	5.3	.34	34	P12902-ND◆	12.75	10.97	9.44	BM5125-04W-B40-L00
	12	10.2~13.8	240	2.88	6.7	.64	41	P12903-ND◆	12.75	10.97	9.44	BM5125-04W-B50-L00
	12	10.2~13.8	240	2.88	6.7	.64	41	P13438-ND‡	13.38	11.51	9.90	BM5125-04W-B59-L00
2	12	9~12.6	220	2.64	4.2	.68	42	P13439-ND‡	13.65	11.74	10.11	BM6015-04W-B59-L00
2	12	6~13.8	190	2.28	8.47	.50	41	P13484-ND◆	14.50	12.47	10.73	BG0702-B04-400-0
	12	6~13.8	190	2.28	8.47	.50	41	P12904-ND◆	14.38	12.37	10.64	BG0702-B04-400-0T0
	12	6~13.8	250	3.00	9.5	.61	43	P13440-ND‡	15.13	13.01	11.20	BG0702-B04-500-L00
	24	10~27.6	140	3.36	9.50	.61	43	P12905-ND◆	14.50	12.47	10.73	BG0702-B05-500-0
2	12	6~13.0	290	3.48	10.6	.44	38.5	P12906-ND◆	14.50	12.47	10.73	BG0703-B04-400-0
	12	6~13.0	290	3.48	10.6	.44	38.5	P13441-ND‡	15.13	13.01	11.20	BG0703-B04-400-L00
	24	10~26.0	150	3.60	10.6	.44	38.5	P12907-ND◆	14.50	12.47	10.73	BG0703-B054-00-00
2	12	8~12.8	1030	12.40	28.6	1.4	54.5	P12908-ND◆	20.38	17.53	15.08	BG0903-B04-400-0
	12	10.8~12.6	1600	19.2	38.1	1.9	—	P13442-ND†	21.00	18.06	15.54	BG0903-B04-700-S00
	24	10~25.0	490	11.80	28.6	1.4	54.5	P12909-ND◆	20.38	17.53	15.08	BG0903-B05-400-0
	24	10~25	490	11.8	28.6	1.4	54.5	P13443-ND‡	21.00	18.06	15.54	BG0903-B05-400-L00
1	12	6~13.8	650	7.80	28.2	.70	52	P12910-ND◆	22.25	19.14	16.47	BG1203-B04-400-0
	12	6~13.8	650	7.8	28.2	.70	52	P13444-ND‡	22.88	19.68	16.93	BG1203-B04-400-L00
	12	6~13.8	930	11.16	33.2	1.04	55	P13445-ND†	22.88	19.68	16.93	BG1203-B04-500-S00
	24	12~25.2	480	11.52	33.2	1.04	55	P12911-ND◆	22.25	19.14	16.47	BG1203-B05-500-0

◆ ***RoHS Compliant*** ‡ Locked Rotor Sensor † Tac Sensor

SUNON Thin Cooling Fans

Specifications:
• Motor: Patented brushless DC motor design • Fan Housing: Injection molded non-flammable black thermoplastic UL94V-0 rating • Impeller: Injection molded non-flammable black thermoplastic UL94V-0 rating Bearing: • Precision, life-lubricated ball bearing system; Precision, oil-impregnated sintered sleeve bearing system. • Insulation: Class E integral ground system rated @ 100°C • Insulation Resistance: More than 500MΩ between internal stator and lead wire (+) measured by DC 500V • Dielectric Strength: 500VAC for one minute • Operating Temperature: -10°C ~ 70°C for ball and sleeve bearing version; 0°C ~ 70°C for vapo bearing version • Storage Temperature: -40°C ~ 70°C • Operating Voltage: Rated voltage ±15% • Life Expectancy: 30,000 hours

Fig. 1

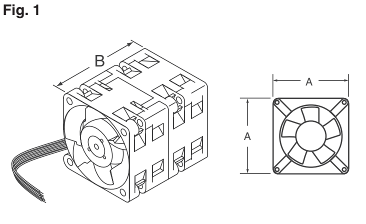

Fig. 2

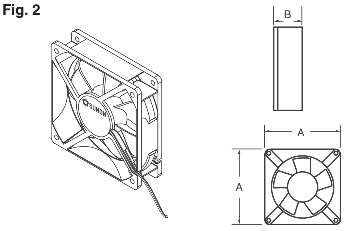

Dim. (mm) A x B	Voltage (VDC)	Operating Voltage (VDC)	Bearing Type	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1" or 25.4mm – H20)	Noise Pressure (dBA)	Sensor	Digi-Key Part No.	Price Each				Sunon Part No.
												1	10	25	50	
Fig. 1 — Hi-Performance Dual Axial Fans																
40 x 48	12	5 ~ 13.8	Ball	1.40	16.8	14500/9500	27	1.97	61	—	259-1301-ND	30.60	23.55	22.05	20.74	PMD1204PJB1-A
40 x 56	12	5 ~ 13.8	Ball	1.40	16.8	14500/9500	26.5	1.73	59	—	259-1303-ND	31.75	24.43	22.88	21.52	PMD1204PPB1-A(2)
		6 ~ 13.8	Ball	1.4	16.8	14500	26.5	1.73	59	—	259-1369-ND◆	36.80	30.73	28.78	27.07	PMD1204PPB1-A.(2).GN
Fig. 2 — Plastic Ultra-Thin Brushless Axial DC Fans — RoHS Compliant																
17 x 8	5	3 ~ 6	Vapo	0.11	0.60	15000	0.70	0.17	16	—	259-1333-ND	18.28	15.27	14.30	13.45	GM0517PDV2-8.GN
20 x 8	5	3 ~ 6	Vapo	0.17	0.90	15000	1.60	0.22	23	—	259-1319-ND	17.25	14.41	13.49	12.69	GM0501PDV1-8.GN
		3 ~ 6	Vapo	0.11	0.60	12000	1.30	0.15	21	—	259-1320-ND	17.25	14.41	13.49	12.69	GM0501PDV2-8.GN
25 x 6	5	3 ~ 6	Vapo	0.11	0.60	13000	3.00	0.22	31	—	259-1322-ND	10.39	8.68	8.13	7.64	GM0502PEV1-8N.GN
		3 ~ 6	Vapo	0.08	0.40	10000	2.20	0.16	23	—	259-1323-ND	10.39	8.68	8.13	7.64	GM0502PEV2-8N.GN
30 x 6	5	3 ~ 6	Vapo	0.13	0.70	9500	4.9	0.14	28	—	259-1327-ND	13.70	11.44	10.72	10.08	GM0503PEV1-8.N.GN
		3 ~ 6	Vapo	0.08	0.40	7500	3.7	0.09	24	—	259-1328-ND	13.70	11.44	10.72	10.08	GM0503PEV2-8.N.GN
40 x 6	5	3 ~ 6	Vapo	0.09	0.50	7000	5.9	0.10	32	—	259-1331-ND	15.39	12.86	12.04	11.32	GM0504PEV1-8.GN
		3 ~ 6	Vapo	0.07	0.40	6000	5.5	0.08	26	—	259-1332-ND	15.39	12.86	12.04	11.32	GM0504PEV2-8.GN
Fig. 2 — Plastic Thin Brushless Axial DC Fans																
20 x 10	5	3 ~ 6	Vapo	0.18	0.9	14000	1.5	0.20	20	—	259-1321-ND◆	15.46	12.92	12.10	11.38	GM0501PFV2-8.N.GN
25 x 10	5	3 ~ 6	Vapo	0.12	0.6	13000	3.5	0.25	23	Tac	259-1324-ND◆	12.50	10.44	9.78	9.20	GM0502PFV1-8.F.GN
		3 ~ 6	Vapo	0.12	0.6	13000	3.5	0.25	23	—	259-1325-ND◆	13.70	11.44	10.72	10.08	GM0502PFV1-8.GN
		3 ~ 6	Vapo	0.08	0.4	10000	3.0	0.18	16	—	259-1326-ND◆	13.70	11.44	10.72	10.08	GM0502PFV2-8.GN
	12	4.5 ~ 13.8	Vapo	0.067	0.8	13000	3.5	0.25	23	—	259-1394-ND◆	13.70	11.44	10.72	10.08	GM1202PFV1-8.GN
		4.5 ~ 13.8	Vapo	0.038	0.5	10000	3.0	0.18	16	—	259-1395-ND◆	13.70	11.44	10.72	10.08	GM1202PFV2-8.GN
30 x 10	5	3 ~ 6	Vapo	0.14	0.7	9500	5.5	0.15	23	—	259-1329-ND◆	13.70	11.44	10.72	10.08	GM0503PFV1-8.GN
		3 ~ 6	Vapo	0.10	0.5	8000	4.6	0.12	20	—	259-1330-ND◆	13.70	11.44	10.72	10.08	GM0503PFV2-8.GN
	12	4.5 ~ 13.8	Vapo	0.078	1.0	9500	5.5	0.15	23	—	259-1396-ND◆	13.70	11.44	10.72	10.08	GM1203PFV1-8.GN
		4.5 ~ 13.8	Vapo	0.042	0.5	8000	4.6	0.12	20	—	259-1397-ND◆	13.70	11.44	10.72	10.08	GM1203PFV2-8.GN
35 x 10	5	3 ~ 6	Vapo	0.15	0.8	9500	7.0	0.18	28	—	259-1334-ND◆	13.70	11.44	10.72	10.08	GM0535PFV1-8.GN
		3 ~ 6	Vapo	0.10	0.5	7500	6.5	0.12	22	—	259-1305-ND◆	16.67	13.05	12.21	11.47	GM0535PFV2-8.GN
	12	4.5 ~ 13.8	Vapo	0.08	1.0	9500	7.0	0.18	28	—	259-1391-ND◆	15.39	12.86	12.04	11.32	GM1235PFV1-8.GN
		4.5 ~ 13.8	Vapo	0.043	0.5	7500	6.5	0.12	22	—	259-1392-ND◆	15.39	12.86	12.04	11.32	GM1235PFV2-8.GN
38 x 20	12	12	Ball	0.26	3.1	13000	12	0.61	44	—	259-1400-ND◆	16.78	14.01	13.12	12.34	PMD1238PKB1-A.(2).GN
38 x 28	12	12	Ball	.30	3.6	13000	16.5	0.91	47	—	259-1401-ND◆	17.67	14.76	13.82	13.00	PMD1238PQB1-A.(2).GN
40 x 10	5	4 ~ 6	Vapo	0.24	1.2	7000	8.0	0.19	32	Tac	259-1341-ND◆	6.77	5.66	5.30	4.98	KDE0504PFV1.11.MS.AF.GN
		4 ~ 6	Vapo	0.24	1.2	7000	8.0	0.19	32	—	259-1342-ND◆	7.21	6.03	5.65	5.31	KDE0504PFV1.11.MS.A.GN
		4 ~ 6	Vapo	0.14	0.7	5800	7.0	0.13	27	—	259-1343-ND◆	5.71	4.77	4.47	4.20	KDE0504PFV2 11.MS.A.GN
	12	4.5 ~ 13.8	Vapo	0.15	1.8	8500	9.5	0.25	39	—	259-1352-ND◆	6.86	5.73	5.37	5.05	KDE1204PFVX.11.MS.A.GN
		4.5 ~ 13.8	Vapo	0.09	1.1	7000	8.0	0.19	32	Tac	259-1349-ND◆	6.51	5.44	5.09	4.79	KDE1204PFV1.11.MS.AF.GN
		4.5 ~ 13.8	Vapo	0.09	1.1	7000	8.0	0.19	32	—	259-1350-ND◆	6.86	5.73	5.37	5.05	KDE1204PFV1.11.MS.A.GN
		6 ~ 13.8	Vapo	0.08	1.0	5800	7.0	0.13	27	—	259-1351-ND◆	6.86	5.73	5.37	5.05	KDE1204PFV2.11.MS.A.GN
		4.5 ~ 13.8	Vapo	50	0.6	5500	4.9	0.10	20	—	259-1398-ND◆	5.66	4.73	4.43	4.17	KDE1204PFV3 11.MS.B981.A.GN
40 x 20	12	4.5 ~ 13.8	Vapo	0.05	0.6	6200	7.7	0.16	21	—	259-1353-ND◆	6.70	5.60	5.24	4.93	KDE1204PKV2 MS.A.GN
40 x 24	12	12	Ball	0.78	9.4	14500	23.5	1.26	55.0	—	259-1402-ND◆	19.13	15.98	14.96	14.07	PMD1204PBB1-A(2).GN
		6 ~ 13.8	Ball	0.72	8.6	15000	24	1.34	55.5	Tac	259-1370-ND◆	17.98	15.02	14.06	13.22	PMD1204PQB1-A(2).U.F.GN
40 x 28	12	6 ~ 13.8	Ball	0.72	8.6	15000	24	1.34	55.5	—	259-1371-ND◆	15.86	13.25	12.41	11.67	PMD1204PQB1-A(2).U.GN
		6 ~ 13.8	Ball	0.57	6.8	13000	23.5	1.15	51.5	Tac	259-1372-ND◆	17.25	14.41	13.49	12.69	PMD1204PQBX-A(2).F.GN
45 x 10	5	3.5 ~ 6	Ball	0.21	1.0	7000	9.5	0.16	32	—	259-1287-ND	8.61	6.17	5.87	5.46	KD0545PFB1 OC
		4 ~ 6	Vapo	0.25	1.3	6000	11	0.17	32	—	259-1347-ND◆	7.50	6.26	5.87	5.52	KDE0545PFV1.11.MS.A.GN
		4 ~ 6	Vapo	0.15	0.8	5000	9.2	0.12	27	—	259-1348-ND◆	7.50	6.26	5.87	5.52	KDE0545PFV2.11.MS.A.GN
	12	4.5 ~ 13.8	Vapo	0.16	1.9	7100	12.5	0.22	35	—	259-1362-ND◆	6.86	5.73	5.37	5.05	KDE1245PFVX.11.MS.A.GN
		4.5 ~ 13.8	Vapo	0.10	1.2	6000	11	0.17	32	—	259-1360-ND◆	6.86	5.73	5.37	5.05	KDE1245PFV1.11.MS.A.GN
		4.5 ~ 13.8	Vapo	0.08	1.0	5000	9.2	0.12	27	—	259-1361-ND◆	6.86	5.73	5.37	5.05	KDE1245PFV2.11.MS.A.GN
50 x 10	5	4 ~ 6	Vapo	0.27	1.4	5200	13	0.14	30	—	259-1344-ND◆	7.50	6.26	5.87	5.52	KDE0505PFV1.11.MS.A.GN
		4 ~ 6	Vapo	0.16	0.8	4300	11	0.11	26	—	259-1345-ND◆	8.39	7.01	6.56	6.17	KDE0505PFV2.11.MS.A.GN
	12	4.5 ~ 13.8	Vapo	0.17	2.0	6100	15.2	0.18	35	—	259-1356-ND◆	6.86	5.73	5.37	5.05	KDE1205PFVX.11.MS.A.GN
		4.5 ~ 13.8	Vapo	0.11	1.3	5200	13	0.14	30	—	259-1354-ND◆	6.60	5.52	5.17	4.86	KDE1205PFV1 11.MS.A.GN
		6 ~ 13.8	Vapo	0.09	1.1	4300	11	0.11	26	—	259-1355-ND◆	6.60	5.52	5.17	4.86	KDE1205PFV2 11.MS.A.GN
50 x 15	5	3.5 ~ 6	Vapo	0.15	0.8	4700	13	0.17	29	—	259-1346-ND◆	8.39	7.01	6.56	6.17	KDE0505PHV2.MS.A.GN
	12	6 ~ 13.8	Vapo	0.07	0.8	4700	13	0.17	29	—	259-1357-ND◆	5.52	4.62	4.32	4.07	KDE1205PHV2 MS.A.GN
52 x 15	5	4 ~ 6	Ball	0.38	1.9	5300	12.7	0.16	27.8	—	259-1161-ND	9.39	6.93	6.59	6.14	KDE0505PHB2
60 x 15	12	6 ~ 13.8	Ball	0.154	1.9	4300	21	0.18	37	Tac	259-1336-ND◆	11.14	9.31	8.71	8.20	KD1206PHB1 (2).F.GN
		6 ~ 13.8	Ball	0.154	1.9	4300	21	0.18	37	—	259-1337-ND◆	11.89	9.93	9.30	8.75	KD1206PHB1 (2).GN
60 x 20	12	12	Ball	0.22	2.6	5000	27.5	0.28	39	—	259-1403-ND◆	18.05	15.07	14.12	13.28	PMD1206PKB1-A.(2).GN
	24	24	Ball	0.12	2.9	5000	27.5	0.28	39	—	259-1404-ND◆	17.16	14.33	13.42	12.62	PMD2406PKB1-A.(2).GN
60 x 25	12	4.5 ~ 13.8	Vapo	0.14	1.7	4500	23.5	0.21	33.5	—	259-1358-ND◆	9.19	7.68	7.19	6.76	KDE1206PTV1 MS.A.GN
		5 ~ 13.8	Ball	0.12	1.4	4500	23.5	0.24	33	Tac	259-1338-ND◆	9.94	8.30	7.78	7.31	KD1206PTB1 13(2).F.GN
		5 ~ 13.8	Ball	0.12	1.4	4500	23.5	0.24	33	—	259-1339-ND◆	7.83	6.54	6.12	5.76	KD1206PTB1.13.(2).GN
		12	Ball	0.32	3.8	6900	36	0.54	44	—	259-1405-ND◆	17.53	14.64	13.71	12.90	PMD1206PTB1-A.(2).U.GN
	24	24	Ball	0.158	3.8	6900	36	0.54	44	—	259-1407-ND◆	13.91	11.62	10.88	10.23	PMD2406PTB1-A (2).U.GN
	48	48	Ball	0.09	4.3	6900	36	0.54	44	—	259-1406-ND◆	18.38	15.35	14.37	13.52	PMD4806PTB1-A.(2).U.GN
60 x 38	12	6 ~ 13.8	Ball	0.88	10.6	8000	56.5	0.92	56	—	259-1373-ND◆	23.17	19.35	18.12	17.04	PMD1206PMB1-A(2).GN
	24	24	Ball	0.43	10.3	8000	56.5	0.92	56	—	259-1408-ND◆	25.54	21.33	19.98	18.79	PMD2406PMB1-A(2).GN
	48	48	Ball	0.24	11.5	8000	56.5	0.92	56	—	259-1409-ND◆	26.63	22.24	20.82	19.58	PMD4806PMB1-A(2).GN
70 x 25	12	12	Ball	0.37	4.4	5100	49	0.36	45	—	259-1410-ND◆	12.57	10.50	9.83	9.25	PMD1207PTB1-A (2).GN
	24	24	Ball	0.19	4.6	5100	49	0.36	45	—	259-1411-ND◆	18.21	15.21	14.24	13.40	PMD2407PTB1-A.(2).GN
	48	48	Ball	0.12	5.8	5100	49	0.36	45	—	259-1412-ND◆	15.84	13.23	12.39	11.65	PMD4807PTB1-A (2).GN
80 x 15	12	5 ~ 13.8	Ball	0.24	2.9	3300	35	0.17	39.5	—	259-1442-ND◆	8.49	6.54	6.12	5.76	KD1208PHB1 13(2).GN
		5 ~ 13.8	Ball	0.24	2.9	3300	35	0.17	39.5	Tac	259-1443-ND◆	10.79	8.30	7.78	7.31	KD1208PHB1 13.(2).F.GN
80 x 20	12	12	Ball	0.39	4.7	4600	53	0.36	49	—	259-1413-ND◆	16.40	13.70	12.83	12.07	PMD1208PKB1-A.(2).GN
80 x 25	12	12	Ball	0.40	4.8	4700	60	0.43	47	—	259-1415-ND◆	16.07	13.43	12.57	11.82	PMD1208PTB1-A.(2).GN
	24	24	Ball	0.21	5.0	4700	60	0.43	47	—	259-1416-ND◆	17.84	14.90	13.95	13.12	PMD2408PTB1-A.(2).GN
		8 ~ 27.6	Ball	0.065	1.6	3100	41	0.19	35	—	259-1340-ND◆	9.99	8.34	7.81	7.35	KD2408PTB1.13.(2).GN
	48	48	Ball	0.13	6.2	4700	60	0.43	47	—	259-1417-ND◆	22.35	18.66	17.48	16.44	PMD4808PTB1-A.(2).GN

◆ RoHS Compliant ***Please Note: Custom Fan Cable Assemblies available upon request*** *(Continued)*

SUNON Thin Cooling Fans *(Cont.)*

Dim. (mm) A x B	Voltage (VDC)	Operating Voltage (VDC)	Bearing Type	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1" or 25.4mm – H20)	Noise Pressure (dBA)	Sensor	Digi-Key Part No.	Price Each 1	10	25	50	Sunon Part No.
80 x 38	12	6 ~ 13.8	Ball	0.76	9.1	5700	84.1	0.74	55.2	—	259-1374-ND◆	23.19	19.37	18.14	17.06	PMD1208PMB1-A.(2).GN
	24	24	Ball	0.40	9.6	5700	84.1	0.74	55.2	—	259-1418-ND◆	25.57	21.35	20.00	18.81	PMD2408PMB1-A.(2).GN
92 x 25	12	5 ~ 13.8	Vapo	0.16	1.9	2800	49	0.16	34	—	259-1359-ND◆	8.51	7.11	6.66	6.26	KDE1209PTV1 13.MS.A.GN
		12	Ball	0.46	5.5	4200	77	0.37	48	—	259-1420-ND◆	16.61	13.88	13.00	12.22	PMD1209PTB1-A.(2).GN
	24	24	Ball	0.24	5.8	4200	77	0.37	48	—	259-1421-ND◆	18.05	15.07	14.12	13.28	PMD2409PTB1-A.(2).GN
	48	48	Ball	0.14	6.7	4200	77	0.37	48	—	259-1422-ND◆	22.35	18.66	17.48	16.44	PMD4809PTB1-A.(2).GN
92 x 38	12	12	Ball	1.04	12.5	4900	120.2	0.71	57.6	—	259-1423-ND◆	23.15	19.33	18.10	17.03	PMD1209PMB1-A.(2).GN
	24	24	Ball	0.51	12.2	4900	120.2	0.71	57.6	—	259-1424-ND◆	25.57	21.35	20.00	18.81	PMD2409PMB1-A.(2).GN
120 x 25	12	12	Ball	0.97	11.6	4500	150	0.62	54	—	259-1426-ND◆	27.33	22.82	21.37	20.10	PMD1212PTB1-A.(2).GN
	24	24	Ball	0.47	11.3	4500	150	0.62	54	—	259-1427-ND◆	28.39	23.71	22.20	20.88	PMD2412PTB1-A.(2).GN
	48	48	Ball	0.25	12.0	4500	150	0.62	54	—	259-1428-ND◆	29.47	24.61	23.05	21.67	PMD4812PTB1-A.(2).GN
120 x 38	12	6 ~ 13.8	Ball	1.6	19.2	4200	190	0.65	54	—	259-1376-ND◆	31.44	26.26	24.59	23.13	PMD1212PMB1-A.(2).GN
		6 ~ 13.8	Ball	1.6	19.2	4200	190	0.65	54	Tac	259-1375-ND◆	25.94	21.67	20.29	19.08	PMD1212PMB1-A(2).F.GN
		6 ~ 13.8	Ball	0.83	10	3400	153	0.43	48	Tac	259-1377-ND◆	25.94	21.67	20.29	19.08	PMD1212PMB3-A(2).F.GN
	12	10.2 ~ 13.8	Ball	0.4	4.8	3100	90	0.28	44.5	—	259-1441-ND◆	14.22	11.88	11.12	10.46	KD1212PTB1-6A.GN
		12	Vapo	0.853	10.2	3000	145	0.32	50	—	259-1438-ND◆	19.55	16.33	15.29	14.38	KDE1212PMV1 13.MS.A.GN
	24	24	Vapo	0.413	9.9	3000	145	0.32	50	—	259-1439-ND◆	20.12	16.80	15.73	14.80	KDE2412PMV1 13.MS.A.GN
	48	48	Vapo	0.225	10.8	3000	145	0.32	50	—	259-1440-ND◆	20.63	17.23	16.14	15.18	KDE4812PMV1 13.MS.A.GN
		24 ~ 56	Ball	0.4	19.2	4200	190	0.65	54	—	259-1378-ND◆	32.85	27.44	25.69	24.16	PMD4812PMB1-A.(2).GN

◆ ***RoHS Compliant*** ***Please Note: Custom Fan Cable Assemblies available upon request***

Mighty Mini Fan

Dim. (mm)	Voltage (VDC)	Operating Voltage (VDC)	Current (mA)	Input (W)	Speed (RPM)	Air Flow (l/min)	Static Pressure (Pa)	Noise Pressure (dBA/5cm)	Weight (g)	Digi-Key Part No.	Price Each 1	10	25	50	Sunon Part No.
8 x 5	3	2.2 ~ 3.5	65	0.2	14000	0.32	2	19.5	0.44	259-1454-ND	30.27	25.28	23.67	22.26	UF385-100

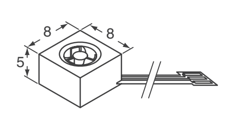

AC Axial Fans

The best choice for industrial equipment and home appliance. SUNON Axial AC Fans are equipped with a shaded-pole motor, die-cast aluminum frame, and UL94V-0 rated injection molded non-flammable thermoplastic impeller, and is the most reliable AC Fan in the field. SUNON AC Fans are available in both life-lubricated ball bearing systems and oil-impregnated sintered sleeve bearing systems to meet the diverse needs of the market.

Features: • Frame: Die cast aluminum • Insulation: Class B integral ground system rated at 120°C • Insulation Resistance: 500 Megohms, minimum at 500VDC • Operating Temperature: -10° ~ 70°C

Applications: Game Machines, Copy Machines, Medical Equipment, Vending Machines, Packing Equipment, Air Conditioners, Heaters, Manufacturing Equipment and Electric Products.

Fig. 1

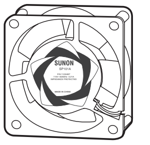

Fig. 2

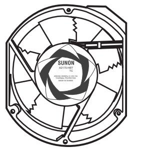

Fig. 3

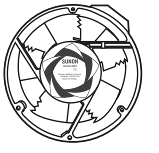

Fig.	Connection Type	Bearing Type	Rated Voltage	Power (W)	Current (A)	Speed (RPM)	Air Flow (CFM)	Dimensions (mm)	Weight (g)	Digi-Key Part No.	Price Each 1	10	25	Sunon Part No.
1	Lead Wires	Vapo	115	3.6/3.6	0.191/0.185	4100/4200	17.5/18	60 x 25	81	259-1429-ND◆◊	25.17	21.02	19.68	MA1062-HVL.GN
	Lead Wires	Vapo	220 ~ 240	4.1/4.4	0.198/0.211	4100/4200	17.5/18	60 x 25	81	259-1430-ND◆◊	25.17	21.02	19.68	MA2062-HVL.GN
	Lead Wires	Vapo	115	3.7/3.7	0.208/0.197	3800/3900	28/29	70 x 25	90	259-1431-ND◆◊	25.71	21.47	20.11	MA1072-HVL.GN
	Lead Wires	Vapo	220 ~ 240	4.3/4.4	0.207/0.220	3800/3900	28/29	70 x 25	90	259-1432-ND◆◊	25.71	21.47	20.11	MA2072-HVL.GN
	Lead Wires	Ball	220 ~ 240	18/16	0.09/0.08	2400/2850	24/31	80 x 38	340	259-1383-ND◆	20.28	16.94	15.86	SF23080A-2083HBL.GN
	Lead Wires	Sleeve	220 ~ 240	18/16	0.09/0.08	2300/2750	23/30	80 x 38	340	259-1384-ND◆	16.45	13.74	12.87	SF23080A-2083HSL.GN
	Lead Wires	Ball	115	14/12	0.15/0.13	2400/2850	24/31	80 x 38	340	259-1379-ND◆	20.28	16.94	15.86	SF11580A-1083HBL.GN
	Lead Wires	Sleeve	115	14/12	0.15/0.13	2300/2750	23/30	80 x 38	340	259-1380-ND◆	16.45	13.74	12.87	SF11580A-1083HSL.GN
	Lead Wires	Ball	115	13/12	0.12/0.11	2350/2850	30/37	92 x 25	280	259-1381-ND◆	20.28	16.94	15.86	SF11592A-1092HBL.GN
	Lead Wires	Sleeve	115	13/12	0.12/0.11	2250/2750	29/36	92 x 25	280	259-1382-ND◆	16.29	13.60	12.74	SF11592A-1092HSL.GN
	Terminal	Ball	115	22/20	0.23/0.24	2850/3150	97/117	120 x 38	550	259-1385-ND◆	22.56	18.84	17.64	SP100A-1123XBT.GN
	Terminal	Sleeve	115	22/20	0.26/0.24	2700/3100	95/115	120 x 38	550	259-1386-ND◆	17.72	14.80	13.86	SP100A-1123XST.GN
	Terminal	Ball	115	20/18	0.21/0.18	2750/3050	87/107	120 x 38	550	259-1387-ND◆	22.56	18.84	17.64	SP101A-1123HBT.GN
	Terminal	Sleeve	115	20/18	0.21/0.18	2550/2900	85/105	120 x 38	550	259-1388-ND◆	12.93	10.80	10.11	SP101A-1123HST.GN
	Terminal	Ball	115	11/11	0.13/0.11	2150/2300	72/78	120 x 38	550	259-1389-ND◆	22.56	18.84	17.64	SP103A-1123LBT.GN
	Terminal	Sleeve	115	11/11	0.13/0.11	2000/2200	70/76	120 x 38	550	259-1390-ND◆	17.72	14.80	13.86	SP103A-1123LST.GN
	Terminal	Ball	220 ~ 240	22/21	0.14/0.12	2850/3150	97/117	120 x 38	550	259-1433-ND◆	22.56	18.84	17.64	DP200A-2123XBT.GN
	Terminal	Ball	220 ~ 240	20/19	0.125/0.11	2750/3050	87/107	120 x 38	550	259-1434-ND◆	22.56	18.84	17.64	DP201A-2123HBT.GN
	Terminal	Ball	220 ~ 240	16/15	0.09/0.08	2400/2600	78/84	120 x 38	550	259-1435-ND◆	22.56	18.84	17.64	DP202A-2123MBT.GN
2	Terminal	Ball	220 ~ 240	39/36	0.28/0.24	2650/2950	180/200	171 x 151 x 51	957	259-1311-ND◆	56.61	47.27	44.27	A2175-HBT.TC.GN
	Lead Wires	Ball	115	39/36	0.59/0.48	2650/2950	180/200	171 x 151 x 51	957	259-1306-ND◆	56.61	47.27	44.27	A1175-HBL.TC.GN
	Terminal	Ball	115	39/36	0.59/0.48	2650/2950	180/200	171 x 151 x 51	957	259-1307-ND◆	56.61	47.27	44.27	A1175-HBT.TC.GN
3	Terminal	Ball	220 ~ 240	56/61	0.24/0.27	1900/2100	585/650	254 x 89	2300	259-1279-ND	103.22	79.43	74.38	A2259-HBT-TC
	Terminal	Ball	220 ~ 240	63/72	0.15/0.13	1400/1650	425/500	254 x 89	2300	259-1112-ND	103.22	79.43	74.38	A2259-MBT-TC
	Lead Wires	Ball	220 ~ 240	63/72	0.15/0.13	1400/1650	425/500	254 x 89	2300	259-1111-ND	103.22	79.43	74.38	A2259-MBL (TC)

◆ ***RoHS Compliant*** ◊ PBT Plastic Frame ***Please Note: Custom Fan Cable Assemblies available upon request***

Chip Cooler

Designed for the Intel 6700PXH 64-bit PCI Hub Chip Set
Dimensions: 38 x 38 x 8mm

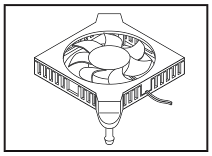

Voltage (VDC)	Operating Voltage (VDC)	Bearing Type	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1" or 25.4mm – H20)	Noise Pressure (dBA)	Digi-Key Part No.	Price Each 1	10	25	50	Sunon Part No.
12	4.5 ~ 13.8	Ball	.095	1.1	8800	6	0.16	32	259-1399-ND	18.54	14.27	13.36	12.57	GC123506BH-8DA.05.N.B515.GN

L

SUNON

Blowers

Features:

- Exceptional cooling performance, radiating blower with one directional exhaust
- Low noise via highly efficient fan blade design
- Low power consumption and high motor efficiency through radial gap type motor design
- Operating Temperature: 0°C ~ 70°C

Fig. 1

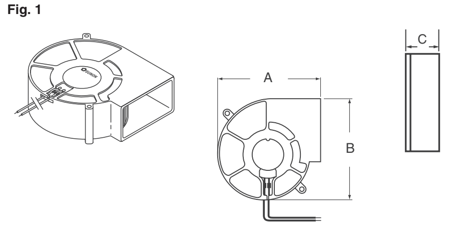

Fig. 2

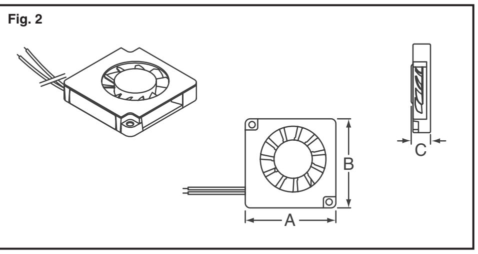

Fig.	Dimensions (mm) A x B x C	Volt-age (VDC)	Operating Voltage (VDC)	Bearing Type	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1" or 25.4mm – H20)	Noise Pressure (dBA)	Digi-Key Part No.	Price Each 1	10	25	50	Sunon Part No.
Power Motor Blowers																
1	75 x 75 x 30	12	6 ~ 13.8	Ball	0.300	3.60	3400	13.60	0.60	43.5	259-1365-ND◆‡	19.01	15.88	14.87	13.98	PMB1275PNB1-AY.(2).GN
			6 ~ 13.8	Ball	0.130	1.60	2400	9.60	0.27	33.9	259-1366-ND◆‡	19.01	15.88	14.87	13.98	PMB1275PNB3-AY.(2).GN
	97 x 94 x 33	12	10.2 ~ 13.8	Ball	0.300	3.60	2700	22.40	0.43	50.0	259-1298-ND‡	21.22	15.94	14.91	14.01	PMB1297PYB3-AY (2)
			6 ~ 12	Ball	0.720	8.60	3600	30.50	0.92	55.8	259-1367-ND◆‡	26.39	22.04	20.64	19.41	PMB1297PYB1-AY(2).GN
	120 x 120 x 32	12	6 ~ 13.8	Ball	0.820	9.80	2500	35.90	0.89	53.8	259-1363-ND◆‡	30.46	25.43	23.82	22.40	PMB1212PLB2-A(2)GN
			10.2 ~ 13.8	Ball	0.450	5.40	2100	31.40	0.64	49.6	259-1300-ND‡	25.02	18.79	17.58	16.52	PMB1212PLB3-A(2)
MagLev® Green Motor Blowers																
1	50 x 50 x 15	12	6 ~ 13.8	Vapo	0.170	2.00	6000	4.70	0.97	42.2	259-1316-ND◆‡	10.88	9.09	8.51	8.01	GB1205PHVX-8AY.GN
			5 ~ 13.8	Vapo	0.060	0.70	4000	3.00	0.40	33.4	259-1292-ND‡	14.41	10.83	10.13	9.51	GB1205PHV2-8AY
			6 ~ 13.8	Vapo	0.060	0.70	4000	3.00	0.40	33.4	259-1315-ND◆‡	10.88	9.09	8.51	8.01	GB1205PHV2-8AY.GN
	50 x 50 x 20	12	6 ~ 13.8	Vapo	0.124	1.50	5200	5.70	0.66	35.0	259-1317-ND◆‡	10.88	9.09	8.51	8.01	GB1205PKV1-8AY.GN
			5 ~ 13.8	Vapo	0.090	1.10	4400	4.80	0.46	30.0	259-1294-ND‡	14.93	11.22	10.50	9.86	GB1205PKV3-8AY
	60 x 60 x 15	12	6 ~ 13.8	Vapo	0.105	1.3	4800	5.2	0.44	40.5	259-1455-ND◆†	11.28	9.42	8.82	8.30	GB1206PHV1-AY.GN
			6 ~ 13.8	Vapo	0.04	0.5	3200	3.5	0.18	29.0	259-1456-ND◆†	11.28	9.42	8.82	8.30	GB1206PHV3-AY.GN
2	25 x 25 x 10	5	3.5 ~ 6	Vapo	0.090	0.5	12000	1.00	0.30	32.0	259-1444-ND◆‡	15.85	11.88	11.29	10.52	GB0502PFV1-8.B2393.GN
	30 x 30 x 10	5	3 ~ 6	Vapo	0.103	0.5	10000	1.20	0.32	30.9	259-1445-ND◆‡	17.00	12.77	11.95	11.23	GB0503PFV1-8 B1837.GN
	35 x 35 x 4.8	5	3 ~ 6	Ball	0.16	0.8	9500	0.9	0.31	31.0	259-1447-ND◆†	15.93	13.31	12.46	11.72	GB0535ACB1-8.B2208.GN
	35 x 35 x 6	5	3 ~ 6	Vapo	0.12	0.6	8500	1.0	0.32	31.0	259-1448-ND◆†	14.36	11.70	10.96	10.30	GB0535AEV1-8.B2445.GN
			3 ~ 5	Vapo	0.085	0.4	7800	0.90	0.23	26.2	259-1450-ND◆†	13.87	11.58	10.85	10.20	GB0535AEV1-8A B1360.F.GN
	35 x 35 x 7	5	2.5 ~ 6	Vapo	0.100	0.5	8000	1.18	0.30	29.6	259-1451-ND◆†	15.25	12.74	11.93	11.22	GB0535ADV1-8.B2336.GN
	40 x 40 x 7	5	3 ~ 5	Vapo	0.080	0.4	7500	1.5	0.34	33.0	259-1452-ND◆†	16.00	13.37	12.52	11.77	GB0504ADV1-8.B2471.F.GN
	40 x 40 x 9	5	4 ~ 6	Vapo	0.049	0.3	5500	1.5	0.21	24.5	259-1453-ND◆†	15.25	12.74	11.93	11.22	GB0504AFV1-8.B2493.GN
	45 x 45 x 9	5	3 ~ 6	Vapo	0.070	0.35	5500	2.20	0.26	29.0	259-1446-ND◆†	17.40	13.07	12.23	11.48	GB0545AFV1-8.B1824.GN
MagLev® Motor Blowers																
2	25 x 25 x 10	5	4 ~ 6	Ball	0.12	0.60	10000	0.8	0.25	30.0	259-1167-ND‡	13.75	10.31	9.80	9.13	B0502AFB2-8 (MS)

◆ ***RoHS Compliant*** ‡ Plastic Housing (Fan Blades - PBT 94V-O) † Aluminum Housing (Fan Blades - PBT 94V-O) ***Please Note: Custom Fan Cable Assemblies available upon request***

COPAL ELECTRONICS

Brushless DC Fans

Copal Electronics manufactures a range of Brushless DC Fans in 16mm through 62mm sizes. Designed for applications in portable electronic equipment, automotive and medical equipment; these fans are ideal for cooling a specific area on a PCB or in an electronic assembly where space is limited.

Features:

- Patented impeller design which improves airflow and reduces vibration
- Low noise of 3dBA ~ 24dBA
- Long life ball and/or sleeve bearing designs
- Frame and impeller made of lightweight UL94V-0 ABS/PBT alloy

Specifications:

- Operating Temperature: -10°C ~ 60°C
- Storage Temperature: -30°C ~ 70°C

Fig. 1

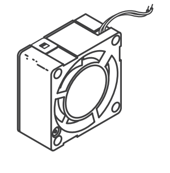

Fig. 2

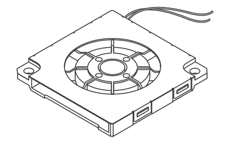

Fig.	Dimensions (mm)	Bearing Type	Operating Voltage (VDC)	Current (A)	Air Flow (CFM)	Noise (dBA)	Digi-Key Part No.	Price Each 1	10	100	500	Copal Electronics Part No.
1	16 x 16 x 4	Sleeve	3.3	.02	.424	3	563-1106-ND	13.94	12.95	11.71	9.96	F16EA-03LLC /E
	16 x 16 x 4.5	Sleeve	5	.04	.424	3	563-1107-ND	13.94	12.95	11.71	9.96	F16FB-05LLC /E
	17 x 17 x 8	Sleeve	5	.03	.530	7	563-1108-ND	15.51	14.41	13.02	11.09	F17HA-05MC
	25 x 25 x 10	Sleeve	5	.05	1.41	11	563-1111-ND	13.34	12.39	11.20	9.53	F251R-05LLC
			12	.03	1.41	11	563-1115-ND	13.34	12.39	11.20	9.53	F251R-12LLC
			12	.02	1.24	9	563-1117-ND	13.34	12.39	11.20	9.53	F251R-12L3C
			12	.08	1.62	12	563-1121-ND	13.34	12.39	11.20	9.53	F251T-12LLC
		1 Sleeve/1 Ball	5	.06	1.77	15	563-1109-ND	16.27	15.11	13.66	11.63	F251R-05LB
			5	.05	1.41	11	563-1110-ND	16.27	15.11	13.66	11.63	F251R-05LLB
			5	.04	1.24	9	563-1112-ND	16.27	15.11	13.66	11.63	F251R-05L3B
			5	.05	1.41	11	563-1119-ND	16.27	15.11	13.66	11.63	F251RF-05LLB
			12	.05	2.12	20	563-1113-ND	16.27	15.11	13.66	11.63	F251R-12MB
			12	.03	1.41	11	563-1114-ND	16.27	15.11	13.66	11.63	F251R-12LLB
			12	.02	1.24	9	563-1116-ND	16.27	15.11	13.66	11.63	F251R-12L3B
			12	.04	1.77	15	563-1118-ND	16.27	15.11	13.66	11.63	F251R-12LB
			12	.03	1.41	11	563-1120-ND	16.27	15.11	13.66	11.63	F251RF-12LLB
	30 x 30 x 10	Sleeve	5	.07	3.18	17	563-1123-ND	13.34	12.39	11.20	9.53	F310R-05LC
			5	.05	2.12	13	563-1124-ND	13.34	12.39	11.20	9.53	F310R-05LLC
			12	.04	3.18	17	563-1126-ND	13.34	12.39	11.20	9.53	F310R-12LC
			12	.025	2.12	13	563-1127-ND	13.34	12.39	11.20	9.53	F310R-12LLC
		1 Sleeve/1 Ball	5	.07	3.18	17	563-1122-ND	16.27	15.11	13.66	11.63	F310R-05LB
			5	.07	3.18	17	563-1128-ND	16.27	15.11	13.66	11.63	F310RF-05LB
			12	.04	3.18	17	563-1125-ND	16.27	15.11	13.66	11.63	F310R-12LB
			12	.04	3.18	17	563-1129-ND	16.27	15.11	13.66	11.63	F310RF-12LB
	40 x 40 x 10	Sleeve	5	.08	3.88	12	563-1130-ND	12.94	12.02	10.87	9.25	F410T-05LC
			5	.12	5.30	18	563-1132-ND	12.94	12.02	10.87	9.25	F410T-05MC
			12	.04	3.88	12	563-1131-ND	12.94	12.02	10.87	9.25	F410T-12LC
			12	.06	5.30	18	563-1133-ND	12.94	12.02	10.87	9.25	F410T-12MC
	41 x 41 x 12.2	1 Sleeve/1 Ball	5	.08	3.88	16	563-1135-ND	14.94	13.88	12.54	10.68	F412R-05LB
			5	.10	5.30	23	563-1138-ND	14.94	13.88	12.54	10.68	F412R-05MB
			12	.04	3.53	14	563-1134-ND	14.94	13.88	12.54	10.68	F412R-12LLB
			12	.04	3.88	16	563-1136-ND	14.94	13.88	12.54	10.68	F412R-12LB
			12	.06	5.30	23	563-1139-ND	14.94	13.88	12.54	10.68	F412R-12MB
			24	.03	3.88	16	563-1137-ND	14.94	13.88	12.54	10.68	F412R-24LB
			24	.04	5.30	23	563-1140-ND	14.94	13.88	12.54	10.68	F412R-24MB
2	45 x 45 x 5	Sleeve	5	.14	1.06	23	563-1141-ND	31.84	29.57	26.73	22.75	F455B-05MD

ebmpapst Fans

UL yellow card E38324, CSA file 27697, VDE file 3041, CCC (ACmaxx), CE (ACmaxx)

Fig. 1

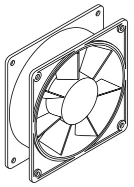

Fig. 2

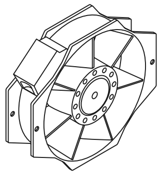

Fig. 3

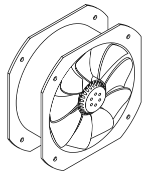

Fig. 4

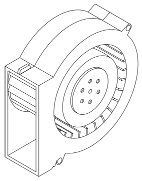

Fig. 5

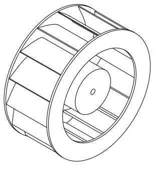

ACmaxx Tubeaxial Fans: Used in the industrial sector in switch cabinets, filter fans, welding machines, refrigerated shelves or counters, ventilation and air conditioning systems.

Features: • 85 ~ 265 volts, 50 and 60 Hertz for worldwide voltages • ≤75% lower power consumption • Fans have integrated intelligence for flexibility in applications • High volume flow

Fig.	Size (mm)	Bearing	Voltage	Input Watts	CFM @ 0	dBA	Leads	Digi-Key Part No.	Price Each 1	25	50	100	ebmpapst Ind. Part No.
ACmaxx Tubeaxial Fans — RoHS Compliant													
1	92 x 38	Ball	115/230	11	86	55	22 AWG 12.2" Leads	381-2284-ND	68.15	52.20	47.85	42.05	AC3200JH
	119 x 32	Ball	115/230	11	120	51	22 AWG 12.2" Leads	381-2285-ND	60.04	45.99	42.16	37.05	AC4300H
3	178 x 165 x 50	Ball	115/230	12	206	50	22 AWG 12.2" Leads	381-2286-ND	83.50	73.07	66.80	58.45	AC6200NM
AC Tubeaxial Fans													
1	80 x 38	Sleeve	115	8	21	21	18 AWG 12.2" Leads	381-1057-ND◆	39.13	29.97	27.48	24.15	8830N
		Sleeve	115	11	28	28	18 AWG 12.2" Leads	381-1106-ND◆	39.60	30.33	27.81	24.44	8800N
		Sleeve	115	11	34	41	.110"x.02" Terminals	381-1051-ND◆	33.72	25.83	23.68	20.81	8500A
		Sleeve	115	11	36	34	18 AWG 12.2" Leads	381-1103-ND	35.96	27.54	25.25	22.19	8500N
		Sleeve	115	11	36	34	18 AWG 12.2" Leads	381-1102-ND	40.77	31.23	28.63	25.16	8500DP
		Sleeve	230	11	36	34	18 AWG 12.2" Leads	381-1105-ND	35.72	27.36	25.08	22.04	8550N
		Sleeve	115	11	36	34	22 AWG 12.2" Leads	381-1052-ND◆	37.13	28.44	26.07	22.91	8500VW
		Ball	115	11	36	35	22 AWG 12.2" Leads	381-1104-ND◆	42.89	32.85	30.12	26.47	8506N
		Ball	115	11	36	34	22 AWG 12.2" Leads	381-1053-ND◆	40.73	35.19	32.36	27.51	8506VW
	92 x 25	Ball	115	9	41	40	.110"x.02" Terminals	381-1076-ND◆	39.13	29.97	27.48	24.15	3906
	92 x 38	Ball	115	11	52	42	18 AWG 12.2" Leads	381-1075-ND◆	47.71	36.54	33.50	29.44	3606
	119 x 25	Ball	115	8	59	35	.110"x.02" Terminals	381-1107-ND	42.18	32.31	29.62	26.03	9906L
		Ball	115	12	79	42	.110"x.02" Terminals	381-1078-ND◆	42.18	32.31	29.62	26.03	9906
		Ball	230	12	79	42	.110"x.02"Terminals	381-1079-ND	42.18	32.31	29.62	26.03	9956
	119 x 38	Sleeve	115	12	71	32	.110"x.02" Terminals	381-1026-ND◆	42.18	32.31	29.62	26.03	4530Z
		Sleeve	230	19	94	40	.110"x.02" Terminals	381-1033-ND◆	33.49	25.65	23.52	20.67	4650Z
		Ball	230	19	94	40	.110"x.02" Terminals	381-1035-ND◆	44.65	34.20	31.35	27.55	4656Z
		Sleeve	115	18	106	50	.110"x.02" Terminals	381-1089-ND◆	34.78	26.64	24.42	21.46	4600N
		Sleeve	115	18	106	50	.110"x.02" Terminals	381-1090-ND◆	29.02	22.23	20.38	17.91	4600X
		Sleeve	230	18	106	50	.110"x.02" Terminals	381-1093-ND◆	34.78	26.64	24.42	21.46	4650N
		Sleeve	230	18	106	50	.110"x.02" Terminals	381-1094-ND	32.43	24.84	22.77	20.01	4650X
		Ball	115	18	106	51	.110"x.02" Terminals	381-1091-ND◆	41.95	32.13	29.46	25.89	4606N
		Ball	230	18	106	51	.110"x.02" Terminals	381-1095-ND◆	42.42	32.49	29.79	26.18	4656X
		Ball	115	18	106	45	.118"x.02" Terminals	381-1030-ND◆	44.89	34.38	31.52	27.70	4606VX
		Ball	230	18	106	45	.118"x.02" Terminals	381-1034-ND◆	60.28	46.17	42.33	37.20	4656VX-817
		Sleeve	115	18	106	45	.110"x.02" Terminals	381-1029-ND◆	37.48	28.71	26.32	23.13	4600Z
		Ball	115	18	106	45	.110"x.02" Terminals	381-1031-ND◆	45.71	35.01	32.10	28.21	4606Z
		Ball	115	18	106	45	22 AWG 12.2" Leads	381-1092-ND◆	48.18	36.90	33.83	29.73	4606ZW
	127 x 38	Ball	115	17	121	47	.110"x.02" Terminals	381-1119-ND◆	49.82	38.16	34.98	30.74	5908-105
		Sleeve	115	17	121	47	.110"x.02" Terminals	381-1120-ND◆	47.24	36.18	33.17	29.15	5900-505
	135 x 38	Ball	230	26	159	50	.110"x.02" Terminals	381-1096-ND	85.78	65.70	60.23	52.93	5656S
2	150 x 55	Ball	115	38	225	52	20 AWG 13.3" Leads	381-1121-ND◆	84.13	64.44	59.07	51.91	W2S130-AA25-01
		Ball	230	46	250	60	20 AWG 13.3" Leads	381-1123-ND◆	84.13	64.44	59.07	51.91	W2S130-BM03-01
		Ball	115	46	263	60	20 AWG 13.3" Leads	381-1124-ND◆	76.38	58.50	53.63	47.13	W2S130-BM15-01
	172 x 51	Ball	115	26	260	58	PSC 0.11" Terminals	381-1065-ND	103.52	79.29	72.69	63.88	W2E143-AA15-01
		Ball	230	29	295	58	PSC 0.11" Terminals	381-1066-ND◆	108.81	83.34	76.40	67.14	W2E143-AB09-01
	172 x 150 x 38	Ball	230	28	230	57	0.11" Terminals	381-1062-ND◆	100.93	77.31	70.87	62.28	W2E142-BB01-01
		Ball	115	24	230	57	0.11" Terminals	381-1063-ND	132.31	101.34	92.90	81.64	W2E142-BB05-01
3	225 x 80	Ball	115	80	606	61	Terminal Block	381-2281-ND◆	154.40	135.10	123.52	108.08	W2E200-HK86-01
AC Flatpak Blowers — RoHS Compliant													
4	121 x 37	Sleeve	115	20	25	60	22 AWG 12.2" Leads	381-1058-ND	54.05	41.40	37.95	33.35	RL90-18/00
		Sleeve	230	20	25	60	22 AWG 12.2" Leads	381-1061-ND	61.69	47.25	43.32	38.07	RL90-18/50

Please Note: Custom Fan Cable Assemblies available upon request. ◆ ***RoHS Compliant***

Fig.	Size (mm)	Voltage	Voltage Range	Bearing	Watts	CFM @ 0	dBA	Leads	Digi-Key Part No.	Price Each 1	25	50	100	ebmpapst Ind. Part No.
Brushless DC Tubeaxial Fans														
1	40 x 10	12	10~14	Sleeve	0.8	5.3	26	28 AWG 12.2" Leads	381-1081-ND◆	12.93	9.90	9.08	7.98	412FH
		24	20~28	Sleeve	0.8	4.7	22	28 AWG 12.2" Leads	381-1082-ND◆	13.16	10.08	9.24	8.12	414F
	40 x 20	12	10~14	Sleeve	1.0	5.9	18	28 AWG 12.2" Leads	381-1069-ND◆	13.16	10.08	9.24	8.12	412
		24	20~28	Sleeve	1.0	5.9	18	28 AWG 12.2" Leads	381-1070-ND◆	14.81	11.34	10.40	9.14	414
	40 x 25	12	8~14	Ball	3.3	14	46	28 AWG 12.2" Leads	381-1125-ND◆	34.31	26.28	24.09	21.17	412JHH
		24	18~27	Ball	3.6	14	46	28 AWG 12.2" Leads	381-1126-ND◆	34.31	26.28	24.09	21.17	414JHH
	60 x 25	12	8~15	Ball	.53	12.4	22	22 AWG 12.2" Leads	381-2266-ND◆	27.14	20.79	19.06	16.75	622L
			8~15	Ball	1.9	23.5	36	22 AWG 12.2" Leads	381-2267-ND◆	27.14	20.79	19.06	16.75	622N
			8~15	Ball	2.3	27.1	39	22 AWG 12.2" Leads	381-2264-ND◆	28.67	21.96	20.13	17.69	622H
			8~15	Ball	3.5	33	43	22 AWG 12.2" Leads	381-2265-ND◆	28.67	21.96	20.13	17.69	622HH
		24	18~28	Ball	1	12.4	22	22 AWG 12.2" Leads	381-2270-ND◆	27.14	20.79	19.06	16.75	624L
			18~28	Ball	1.5	17.7	29	22 AWG 12.2" Leads	381-2271-ND◆	27.14	20.79	19.06	16.75	624M
			18~28	Ball	2.2	23.5	36	22 AWG 12.2" Leads	381-2272-ND◆	27.14	20.79	19.06	16.75	624N
			18~28	Ball	2.3	27.1	39	22 AWG 12.2" Leads	381-2268-ND◆	28.67	21.96	20.13	17.69	624H
			18~28	Ball	3.6	33	43	22 AWG 12.2" Leads	381-2269-ND◆	28.67	21.96	20.13	17.69	624HH
	60 x 32	12	7~13.6	Ball	7.7	41.1	53	24 AWG 12.2" Leads	381-2282-ND◆	37.13	28.44	26.07	22.91	612JH
		24	14~26.4	Ball	7.7	41.1	53	24 AWG 12.2" Leads	381-2283-ND◆	37.13	28.44	26.07	22.91	614JH
	70 x 15	12	8~13.8	Sintec	1.7	26	36	28 AWG 12.2" Leads	381-1128-ND◆	27.14	20.79	19.06	16.75	712F
		24	12~30	Sintec	1.7	26	36	28 AWG 12.2" Leads	381-1127-ND◆	27.14	20.79	19.06	16.75	714F

Please Note: Custom Fan Cable Assemblies available upon request. * Requires Mating Housing Connector H10117 and Contacts H10119 ◆ ***RoHS Compliant***

(Continued)

ebmpapst Fans *(Cont.)*

Fig.	Size (mm)	Voltage	Voltage Range	Bearing	Watts	CFM @ 0	dBA	Leads	Digi-Key Part No.	Price Each				ebmpapst Ind. Part No.
										1	25	50	100	
1	80 x 25	12	7~15	Ball	0.8	21	21	24 AWG 12.2" Leads	381-1101-ND◆	23.62	18.09	16.59	14.58	8412L
			7~15	Ball	1.4	27	29	24 AWG 12.2" Leads	381-1049-ND◆	23.62	18.09	16.59	14.58	8412M
			7~15	Ball	2.4	33	35	24 AWG 12.2" Leads	381-1010-ND◆	23.62	18.09	16.59	14.58	8412
		24	12~28	Ball	1.4	27	29	24 AWG 12.2" Leads	381-1050-ND◆	23.62	18.09	16.59	14.58	8414M
			12~28	Ball	2.4	33	35	24 AWG 12.2" Leads	381-1011-ND◆	23.62	18.09	16.59	14.58	8414
	80 x 32	12	6~15	Ball	1.8	28	34	22 AWG 12.2" Leads	381-1048-ND◆	31.02	23.76	21.78	19.14	8312M
			6~15	Ball	2.2	32	36	22 AWG 12.2" Leads	381-1008-ND◆	31.02	23.76	21.78	19.14	8312
			6~15	Ball	4	39	43	22 AWG 12.2" Leads	381-1133-ND◆	31.02	23.76	21.78	19.14	8312HL
		48	36~56	Ball	2.6	32	36	22 AWG 12.2" Leads	381-1077-ND◆	31.02	23.76	21.78	19.14	8318
	80 x 38	12	7~13.8	Ball	10	77.7	55	24 AWG 12.2" Leads	381-2273-ND◆	42.65	32.67	29.95	26.32	8212JN
			8~16	Ball	3	35	39	22 AWG 12.2" Leads	381-1100-ND◆	60.20	52.02	47.85	40.64	8112K
		24	18~26.4	Ball	10	77.7	55	24 AWG 12.2" Leads	381-2274-ND◆	42.65	32.67	29.95	26.32	8214JN
			18~30	Ball	3	35	39	22 AWG 12.2" Leads	381-1047-ND	67.92	52.02	47.69	41.91	8124K
	92 x 25	12	7~15	Ball	1.3	36	27	24 AWG 12.2" Leads	381-1080-ND◆	24.56	18.81	17.25	15.16	3412L
			7~15	Ball	1.8	42	32	24 AWG 12.2" Leads	381-1012-ND◆	24.56	18.81	17.25	15.16	3412M
		24	12~28	Ball	2.6	49	36	24 AWG 12.2" Leads	381-1001-ND◆	24.56	18.81	17.25	15.16	3414
			18~28	Ball	2.3	49.4	32	24 AWG 12.2" Leads	381-1160-ND◆	27.14	20.79	19.06	16.75	3414N
	92 x 32	12	6~15	Ball	2.4	47	37	22 AWG 12.2" Leads	381-1073-ND◆	31.26	23.94	21.95	19.29	3312
		24	12~28	Ball	2.4	47	37	22 AWG 12.2" Leads	381-1074-ND	31.26	23.94	21.95	19.29	3314
	119 x 25	12	7~14	Ball	3.2	82	38	22 AWG 12.2" Leads	381-1024-ND◆	29.85	22.86	20.96	18.42	4412FM
		24	12~28	Ball	3.2	82	38	22 AWG 12.2" Leads	381-1025-ND	31.26	23.94	21.95	19.29	4414FM
	119 x 32	12	6~15	Ball	2.6	82	39	22 AWG 12.2" Leads	381-1021-ND◆	32.20	24.66	22.61	19.87	4312M
			6~15	Ball	5	100	45	22 AWG 12.2" Leads	381-1002-ND◆	32.20	24.66	22.61	19.87	4312
			6~15	Ball	5	100.1	45	22 AWG 12.2" Leads	381-2263-ND◆	34.31	26.28	24.09	21.17	4312/2
		24	12~28	Ball	2.6	82	39	22 AWG 12.2" Leads	381-1023-ND◆	32.20	24.66	22.61	19.87	4314M
			12~28	Ball	5	100	45	22 AWG 12.2" Leads	381-1003-ND◆	32.20	24.66	22.61	19.87	4314
		48	36~53	Ball	5	100	45	22 AWG 12.2" Leads	381-1004-ND◆	35.72	27.36	25.08	22.04	4318
	119 x 38	12	7~14.5	Ball	1.2	51	29	22 AWG 12.2" Leads	381-1016-ND◆	42.42	32.49	29.79	26.18	4212L
			7~14.5	Ball	2.2	75	38	22 AWG 12.2" Leads	381-1017-ND◆	42.42	32.49	29.79	26.18	4212M
			7~15	Ball	4.5	106	49	.110" x .02" Terminals	381-1014-ND◆	46.18	35.37	32.43	28.50	4182NX
			7~14.5	Ball	5.3	108	49	22 AWG 12.2" Leads	381-1084-ND◆	42.42	32.49	29.79	26.18	4212H
			7~15	Ball	21	162	60	22 AWG 12.2" Leads	381-1142-ND	113.39	86.85	79.62	69.97	DV4112/2NP-3021
			9~15	Ball	21	161.9	60	22 AWG 12.2" Leads	381-2275-ND◆	77.00	67.38	61.60	53.90	DV4112N
		24	12~28	Ball	5.3	108	49	22 AWG 12.2" Leads	381-1085-ND◆	42.42	32.49	29.79	26.18	4214H
			12~29	Ball	4.5	106	49	.110" x .02" Terminals	381-1015-ND◆	53.35	40.86	37.46	32.92	4184NX
			12~25	Ball	11	140	59	22 AWG 12.2" Leads	381-1139-ND	54.17	41.49	38.04	33.43	4114NXH
			12~25	Ball	11	140	59	.110" x .02" Terminals	381-1134-ND◆	56.52	43.29	39.69	34.88	4184NXH
			16~30	Ball	19.5	182.4	65	22 AWG 12.2" Leads	381-1161-ND◆	75.32	57.69	52.89	46.48	4114NH3
			16~30	Ball	21	161.9	60	22 AWG 12.2" Leads	381-2276-ND◆	77.00	67.38	61.60	53.90	DV4114N
		48	36~56	Ball	5.6	108	49	.110 x .02" Terminals	381-1087-ND◆	46.88	35.91	32.92	28.93	4298H
			36~56	Ball	16	157	63	22 AWG 10.6" Leads	381-1138-ND*	163.91	125.55	115.09	101.14	W1G110-AG07-06
			36~60	Ball	21	161.9	60	22 AWG 12.2" Leads	381-2277-ND◆	77.00	67.38	61.60	53.90	DV4118N
			36~56	Ball	19.5	182.4	65	22 AWG 12.2" Leads	381-1162-ND◆	69.09	52.92	48.51	42.63	4118N/2H3
	127 x 38	12	8~16	Ball	4.5	118	44	.110" x .02" Terminals	381-1115-ND	68.15	52.20	47.85	42.05	W2G115-AD15-13
			7~14	Ball	6	127	46	22 AWG 12.2" Leads	381-1131-ND◆	49.12	37.62	34.49	30.31	5212NN
			9~15	Ball	21	158.9	56	22 AWG 12.2" Leads	381-2278-ND◆	79.00	69.13	63.20	55.30	DV5212N
		24	12~28	Ball	6	127	46	22 AWG 12.2" Leads	381-1132-ND◆	49.12	37.62	34.49	30.31	5214NN
			16~30	Ball	21	158.9	56	22 AWG 12.2" Leads	381-2279-ND◆	79.00	69.13	63.20	55.30	DV5214N
			16~28	Ball	12	160	52	.110" x .02" Terminals	381-1068-ND◆	87.19	66.78	61.22	53.80	W2G115-AG71-12
		48	36~60	Ball	21	158.9	56	22 AWG 12.2" Leads	381-2280-ND◆	79.00	69.13	63.20	55.30	DV5218N
			43~53	Ball	22	159	56	22 AWG 12.2" Leads	381-1147-ND	129.02	98.82	90.59	79.61	DV5218/2NP-40182
2	172 x 51	24	12~28	Ball	18	241	57	.118" x .02" Terminals	381-1005-ND◆	85.78	65.70	60.23	52.93	6424
			12~28	Ball	26	283	61	.118" x .02" Terminals	381-1043-ND◆	99.52	76.23	69.88	61.41	6224NH
			12~28	Ball	26	283	63	.118" x .02" Terminals	381-1046-ND◆	102.93	78.84	72.27	63.51	6424H
			16~30	Ball	37	318	63	22 AWG 12.2" Leads	381-1156-ND	111.10	97.22	88.88	77.77	DV6224
		48	28~60	Ball	17	241	55	.118" x .02" Terminals	381-1045-ND◆	85.78	65.70	60.23	52.93	6248N
			40~60	Ball	37	318	63	22 AWG 12.2" Leads	381-1157-ND◆	111.10	97.22	88.88	77.77	DV6248
DC Flatpak Blowers														
4	76 x 27	12	8~13.5	Ball	5	16.5	51	22 AWG 12.2" Leads	381-1148-ND◆	40.54	31.05	28.47	25.02	RL48-19/12
		24	18~26.4	Ball	5	16.5	51	22 AWG 12.2" Leads	381-1149-ND	34.78	26.64	24.42	21.46	RL48-19/14
	97 x 93.5 x 33	12	8~12	Ball	12.5	32.4	62	26 AWG 12.2" Leads	381-1150-ND◆	49.12	37.62	34.49	30.31	RL65-21/12/2
	121 x 37	12	7~15	Ball	5	24	58	22 AWG 12.2" Leads	381-1059-ND◆	61.92	47.43	43.48	38.21	RL90-18/12N
		24	12~28	Ball	5	24	58	22 AWG 12.2" Leads	381-1060-ND◆	61.92	47.43	43.48	38.21	RL90-18/14N
	127 x 25	12	8~15	Ball	8	37.7	60	22 AWG 12.2" Leads	381-1151-ND◆	72.20	63.18	57.76	50.54	RLF100-11/12
		24	6~30	Ball	8	37.7	60	22 AWG 12.2" Leads	381-1152-ND◆	72.20	63.18	57.76	50.54	RLF100-11/14

Please Note: Custom Fan Cable Assemblies available upon request. * Requires Mating Housing Connector H10117 and Contacts H10119 ◆ ***RoHS Compliant***

Fig.	Size (mm)	Voltage	Voltage Range	CFM @ 0	dBA	Watts	Impeller Material	Digi-Key Part No.	Price Each				ebmpapst Ind. Part No.
									1	25	50	100	
DC Motorized Impellers													
5	102 x 52	12	11~13	90	69	13.5	Plastic	381-1129-ND	117.15	89.73	82.26	72.29	RER101-36/12/12P

Fig.	Size (mm)	Voltage	Input Watts	CFM @ 0	dBA	Impeller Dimensions Inches (mm)	Capacitor	Impeller Material	Digi-Key Part No.	Price Each				ebmpapst Ind. Part No.
										1	25	50	100	
AC Backward Curved Motorized Impellers — RoHS Compliant														
5	220 x 71	115	96	500	71	8.66" (220) x 2.8" (71)	10	Plastic	381-1110-ND	104.81	80.28	73.59	64.67	R2E220-AA44-23
		230	100	530	71	8.66" (220) x 2.8" (71)	2	Plastic	381-1109-ND	104.81	80.28	73.59	64.67	R2E220-AA40-23

Fig.	Size (mm)	Voltage	Input Watts	CFM @ 0	dBA	Impeller Dimensions Inches (mm)	Impeller Material	Digi-Key Part No.	Price Each				ebmpapst Ind. Part No.
									1	25	50	100	
DC Backward Curved Motorized Impellers — RoHS Compliant													
5	133 x 91	24	28	212	63	5.25" (133) x 2.39" (60.6)	Plastic	381-1154-ND	190.90	167.04	152.72	133.63	R1G133-AA17-02
	175 x 69	48	36	330	65	6.9" (175) x 2.72" (69)	Plastic	381-1159-ND	150.80	131.95	120.64	105.56	R1G175-AB41-02

DC Axial Fans and Blowers

Broad product range covers axial fans from 25mm to 172mm and blowers from 30mm to 159mm.

Features: • Distinctive blade designs • Brushless • TS16949 accredited • ISO-9001 certified • Ball bearings • Lead wires

Fig. 1

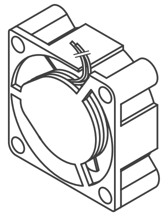

Fig. 2

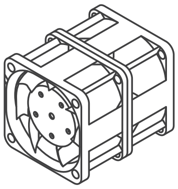

Fig. 3

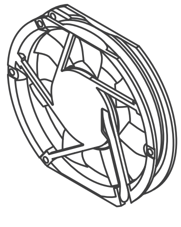

Fig. 4

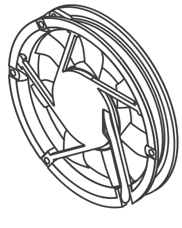

Fig. 5

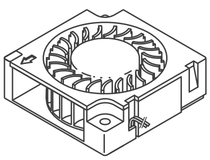

Fig. 6

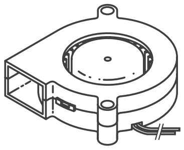

Fig.	Dimensions (mm)	Rated Voltage	Operating Voltage Range	Rated Current (A)	Rated Input Power (W)	Speed (RPM)	CFM	Noise (dB)	Sensors	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Delta Part No.	Finger Guards	Price Each
Axial Fans																
1	25 x 25 x 10	12	7.0 ~ 13.2	.080	0.96	13,000	2.40	28.0	—	603-1129-ND	12.72	8.40	6.96	AFB02512HHA-A	—	—
	35 x 35 x 10	12	9.5 ~ 13.8	.090	1.08	7,000	5.50	22.0	—	603-1128-ND	12.72	8.40	6.96	AFB03512HA-A	CR378-ND	.66
	40 x 40 x 10	12	7.0 ~ 13.8	.060	.72	5,000	5.90	24.5	—	603-1002-ND	9.78	7.44	6.38	EFB0412MA	CR230-ND	.65
		12	7.0 ~ 13.8	.080	.96	6,000	6.92	28.5	—	603-1003-ND	9.78	7.44	6.38	EFB0412HA	CR230-ND	.65
		12	7.0 ~ 13.8	.100	1.20	7,000	8.09	33.0	—	603-1004-ND	11.26	7.44	6.17	EFB0412HHA	CR230-ND	.65
	40 x 40 x 15	12	7.0 ~ 13.8	.130	1.56	8,300	11.48	32.0	—	603-1005-ND	11.81	9.09	7.62	AFB0412HHB	CR230-ND	.65
		12	7.0 ~ 13.8	.250	3.00	11,000	14.83	41.5	—	603-1006-ND	11.81	9.09	7.62	AFB0412SHB	CR230-ND	.65
	40 x 40 x 20	5	4.5 ~ 5.5	.250	1.25	7,600	8.54	28.5	—	603-1007-ND	10.93	8.32	7.13	EFB0405HD	CR230-ND	.65
		5	4.5 ~ 5.5	.320	1.60	9,000	10.10	32.5	Tac	603-1008-ND	13.25	8.75	7.25	EFB0405VHD-F00	CR230-ND	.65
		12	7.0 ~ 13.8	.080	0.96	7,600	8.54	28.5	—	603-1009-ND	12.59	8.32	6.89	EFB0412HD	CR230-ND	.65
		12	7.0 ~ 13.8	.120	1.44	9,000	10.10	32.5	—	603-1010-ND	12.59	8.32	6.89	EFB0412VHD	CR230-ND	.65
		24	14.0 ~ 27.6	.040	0.96	5,000	5.54	22.0	—	603-1011-ND	10.93	8.32	7.13	EFB0424LD	CR230-ND	.65
	40 x 40 x 28	12	4.5 ~ 13.8	.070	0.84	6,500	10.59	32.1	Tac	603-1012-ND	16.43	10.85	8.99	FFB0412HN-F00	CR230-ND	.65
		12	4.0 ~ 13.8	.500	6.00	13,000	24.00	51.5	Tac	603-1013-ND	18.82	12.43	10.30	FFB0412SHN-F00	CR230-ND	.65
		12	4.5 ~ 13.2	.160	1.92	9,500	15.79	41.9	—	603-1014-ND	13.39	10.30	8.63	FFB0412VHN	CR230-ND	.65
		12	4.5 ~ 13.2	.160	1.92	9,500	15.79	41.9	—	603-1015-ND	16.43	10.85	8.99	FFB0412VHN-B	CR230-ND	.65
		12	4.5 ~ 13.2	.160	1.92	9,500	15.79	41.9	Tac	603-1016-ND	16.43	10.85	8.99	FFB0412VHN-F00	CR230-ND	.65
		12	4.5 ~ 13.2	.160	1.92	9,500	15.79	41.9	Locked Rotor	603-1017-ND	16.43	10.85	8.99	FFB0412VHN-R00	CR230-ND	.65
		24	14.0 ~ 26.4	.100	2.40	9,500	15.79	41.9	—	603-1018-ND	15.77	10.42	8.63	FFB0424VHN	CR230-ND	.65
2	40 x 40 x 48	12	7.0 ~ 13.2	.850	10.20	12,000	24.00	60.0	Tac	603-1019-ND	31.14	20.57	17.04	GFB0412SHG-F00	CR230-ND	.65
	40 x 40 x 56	12	7.0 ~ 13.2	1.25	15.00	15,000	27.30	59.5	Tac	603-1020-ND	31.14	20.57	17.04	GFB0412EHS-F00	CR230-ND	.65
1	45 x 45 x 10	12	7.0 ~ 13.8	.110	1.32	5,000	9.85	30.0	—	603-1021-ND	11.81	9.09	7.62	AFB04512MA	—	—
	50 x 50 x 10	5	4.5 ~ 5.5	.130	0.65	4,500	9.21	25.0	Tac	603-1022-ND	11.93	7.88	6.53	EFB0505MA-F00	CR379-ND	.86
		12	7.0 ~ 13.8	.100	1.20	5,500	11.4	30.0	—	603-1023-ND	9.78	7.44	6.38	EFB0512HA	CR379-ND	.86
	50 x 50 x 15	12	7.0 ~ 13.8	.100	1.20	5,600	14.13	32.0	—	603-1024-ND	13.91	9.19	7.62	AFB0512HB	CR379-ND	.86
	50 x 50 x 20	12	7.0 ~ 13.8	.160	1.92	7,000	20.30	40.5	—	603-1025-ND	13.91	9.19	7.62	AFB0512VHD	CR379-ND	.86
	60 x 60 x 10	12	7.0 ~ 13.8	.180	2.16	4,800	21.19	36.5	—	603-1026-ND	12.59	8.32	6.89	EFB0612HHA	CR221-ND	.68
	60 x 60 x 15	5	4.0 ~ 6.0	.300	1.50	4,000	15.36	32.0	—	603-1027-ND	13.91	9.19	7.62	AFB0605HB	CR221-ND	.68
		24	14.0 ~ 27.6	.080	1.92	4,000	15.36	32.0	—	603-1028-ND	13.91	9.19	7.62	AFB0624HB	CR221-ND	.68
	60 x 60 x 20	12	7.0 ~ 13.8	.150	1.80	4,400	18.36	31.0	—	603-1029-ND	11.81	9.09	7.62	AFB0612HHD	CR221-ND	.68
	60 x 60 x 25.4	12	4.0 ~ 13.8	.080	0.96	3,100	16.81	26.5	—	603-1030-ND	15.50	10.24	8.49	AFB0612L-A	CR221-ND	.68
		12	4.0 ~ 13.8	.140	1.68	4,250	23.38	34.0	—	603-1031-ND	13.16	10.13	8.49	AFB0612H-A	CR221-ND	.68
		12	4.0 ~ 13.8	.170	2.04	5,000	27.55	40.0	—	603-1032-ND	11.81	9.09	7.62	AFB0612HH-A	CR221-ND	.68
		12	4.0 ~ 13.8	.270	3.24	6,000	34.15	44.5	Tac	603-1033-ND	16.83	11.12	9.21	AFB0612SH-ABF00	CR221-ND	.68
		12	4.0 ~ 13.8	.270	3.24	6,000	34.15	44.5	Tac	603-1034-ND	16.17	10.68	8.85	AFB0612SH-AF00	CR221-ND	.68
		12	4.0 ~ 13.8	.380	4.56	6,800	38.35	46.5	Tac	603-1035-ND	16.83	11.12	9.21	AFB0612EH-ABF00	CR221-ND	.68
		24	14.0 ~ 27.6	.090	2.16	4,250	23.38	34.0	—	603-1036-ND	15.50	10.24	8.49	AFB0624H-A	CR221-ND	.68
		24	14.0 ~ 27.6	.110	2.64	5,000	27.55	40.0	—	603-1037-ND	15.50	10.24	8.49	AFB0624HH-A	CR221-ND	.68
	60 x 60 x 38	12	4.5 ~ 13.8	.340	4.08	6,000	36.73	46.5	—	603-1038-ND	18.15	11.99	9.94	FFB0612VHE	CR221-ND	.68
		12	4.5 ~ 13.8	.550	6.60	7,000	43.44	50.5	—	603-1039-ND	15.07	11.86	9.94	FFB0612SHE	CR221-ND	.68
		12	4.5 ~ 13.8	.800	9.60	8,000	50.15	54.5	—	603-1040-ND	18.15	11.99	9.94	FFB0612EHE	CR221-ND	.68
		12	7.0 ~ 13.8	.680	8.16	9,000	49.54	54.0	—	603-1041-ND	20.41	13.48	11.17	AFB0612VHE-A	CR221-ND	.68
2	60 x 60 x 50.8	12	7.0 ~ 13.8	.430	5.16	5,000	32.14	50.5	—	603-1042-ND	24.70	20.14	17.29	GFB0612HHG	CR221-ND	.68
1	70 x 70 x 20	12	5.0 ~ 13.8	.250	3.00	4,400	40.43	40.5	—	603-1043-ND	11.81	9.09	7.62	AFB0712HHD	—	—
	70 x 70 x 25.4	12	5.0 ~ 12.6	.440	5.28	5,500	51.97	47.5	—	603-1044-ND	13.91	9.19	7.62	AFB0712VH-A	—	—
		12	5.0 ~ 13.8	.650	7.80	6,300	61.05	50.5	—	603-1045-ND	16.96	11.20	9.28	AFB0712SH-AB	—	—
		24	14.0 ~ 26.4	.090	2.16	3,100	28.85	31.5	—	603-1046-ND	13.16	10.13	8.49	AFB0724M-A	—	—
	80 x 80 x 15	12	7.0 ~ 13.8	.190	2.28	3,700	39.20	39.5	Tac	603-1047-ND	14.58	9.63	7.98	AFB0812VHB-F00	CR180-ND	.93
	80 x 80 x 20	12	7.0 ~ 13.8	.220	2.64	4,000	48.20	41.0	—	603-1048-ND	13.91	9.19	7.62	AFB0812SHD	CR180-ND	.93
	80 x 80 x 25.4	5	4.5 ~ 5.5	.430	2.15	3,000	35.31	31.0	—	603-1049-ND	13.91	9.19	7.62	AFB0805H	CR180-ND	.93
		12	7.0 ~ 13.8	.160	1.92	3,000	35.31	31.0	—	603-1050-ND	13.91	9.19	7.62	AFB0812H	CR180-ND	.93
		12	7.0 ~ 13.8	.200	2.40	3,250	37.43	34.0	—	603-1051-ND	13.91	9.19	7.62	AFB0812HH	CR180-ND	.93
		12	7.0 ~ 13.8	.200	2.40	3,250	37.43	34.0	Tac	603-1052-ND	14.58	9.63	7.98	AFB0812HH-F00	CR180-ND	.93
		12	7.0 ~ 13.2	.260	3.12	3,500	47.22	41.7	—	603-1053-ND	19.01	14.94	12.90	FFB0812HH	CR180-ND	.93
		12	7.0 ~ 13.8	.340	4.08	4,000	46.62	40.0	Tac	603-1054-ND	14.58	9.63	7.98	AFB0812SH-F00	CR180-ND	.93
		12	7.0 ~ 13.2	.500	6.00	4,500	67.02	48.6	—	603-1055-ND	19.01	14.94	12.90	FFB0812SH	CR180-ND	.93
	80 x 80 x 38	12	7.0 ~ 13.8	.380	4.56	4,200	57.21	44.5	—	603-1056-ND	18.15	11.99	9.94	FFB0812VHE	CR180-ND	.93

(Continued)

DELTA DC Axial Fans and Blowers *(Cont.)*

Fig.	Dimensions (mm)	Rated Voltage	Operating Voltage Range	Rated Current (A)	Rated Input Power (W)	Speed (RPM)	CFM	Noise (dB)	Sensors	Digi-Key Part No.	Price Each			Delta Part No.	Finger Guards	Price Each
											1	10	100			
1	80 x 80 x 38	12	7.0 ~ 13.8	.580	6.96	4,900	68.51	48.5	—	603-1057-ND	18.15	11.99	9.94	FFB0812SHE	CR180-ND	.93
		12	7.0 ~ 13.8	.900	10.80	5,700	80.16	52.5	Tac	603-1058-ND	18.82	12.43	10.30	FFB0812EHE-F00	CR180-ND	.93
		12	7.0 ~ 13.2	1.15	13.80	6,600	89.95	59.8	—	603-1059-ND	22.22	17.48	14.65	FFB0812GHE	CR180-ND	.93
		12	7.0 ~ 13.2	1.50	18.00	7,500	102.02	62.2	—	603-1060-ND	20.20	16.47	14.14	FFB0812UHE	CR180-ND	.93
		12	7.0 ~ 13.2	2.75	33.00	9,000	132.56	65.0	—	603-1061-ND	26.80	21.85	18.76	PFB0812DHE	CR180-ND	.93
2	80 x 80 x 50.8	12	7.0 ~ 13.2	.730	8.76	4,200	68.58	53.0	Tac	603-1062-ND	33.39	22.05	18.27	GFB0812SHG-F00	CR180-ND	.93
1	92 x 92 x 20	24	14.0 ~ 27.6	.100	2.40	2,700	54.60	35.0	—	603-1063-ND	11.81	9.09	7.62	AFB0924HD	CR220-ND	.77
	92 x 92 x 25.4	12	7.0 ~ 13.8	.160	1.92	2,850	51.21	34.0	—	603-1064-ND	13.91	9.19	7.62	AFB0912H	CR220-ND	.77
		12	7.0 ~ 13.8	.250	3.00	3,200	57.92	38.0	—	603-1065-ND	13.91	9.19	7.62	AFB0912HH	CR220-ND	.77
		12	7.0 ~ 13.8	.600	7.20	3,700	81.97	48.2	—	603-1066-ND	15.07	11.86	9.94	FFB0912VH	CR220-ND	.77
		12	7.0 ~ 13.8	.400	4.80	3,800	67.80	45.0	—	603-1067-ND	11.81	9.09	7.62	AFB0912VH	CR220-ND	.77
		24	14.0 ~ 27.6	.100	2.40	2,850	51.21	34.0	—	603-1069-ND	13.91	9.19	7.62	AFB0924H	CR220-ND	.77
		24	14.0 ~ 27.6	.220	5.28	3,800	67.80	45.0	—	603-1070-ND	13.91	9.19	7.62	AFB0924VH	CR220-ND	.77
	92 x 92 x 38	12	7.0 ~ 13.2	1.22	14.64	6,000	129.31	60.5	—	603-1071-ND	27.30	22.25	19.11	PFB0912GHE	CR220-ND	.77
		24	14.0 ~ 27.6	.280	6.72	3,800	85.46	47.5	—	603-1072-ND	18.95	12.52	10.37	FFB0924VHE	CR220-ND	.77
		48	28.0 ~ 53.0	.200	9.60	4,400	100.29	52.5	—	603-1073-ND	24.12	15.93	13.20	FFB0948SHE	CR220-ND	.77
	100 x 100 x 38	12	7.0 ~ 12.6	2.20	26.40	5,000	143.09	62.0	—	603-1074-ND	31.93	21.09	17.48	FFB1012EHE	—	—
	120 x 120 x 25.4	12	7.0 ~ 13.8	.230	2.76	2,500	82.67	38.5	—	603-1075-ND	14.52	11.42	9.57	AFB1212H	CR210-ND	1.72
		12	7.0 ~ 13.8	.330	3.96	2,800	95.14	41.5	—	603-1076-ND	17.49	11.55	9.57	AFB1212HH	CR210-ND	1.72
		24	14.0 ~ 27.6	.280	6.72	3,400	113.11	46.5	—	603-1077-ND	18.29	12.08	10.01	AFB1224SH	CR210-ND	1.72
	120 x 120 x 38	12	4.0 ~ 13.2	.600	7.20	3,200	129.96	48.0	Tac	603-1078-ND	20.27	13.39	11.10	AFB1212VHE-F00	CR210-ND	1.72
		12	7.0 ~ 13.2	1.00	12.00	3,200	151.85	53.0	—	603-1080-ND	31.93	21.09	17.48	FFB1212VHE	CR210-ND	1.72
		12	7.0 ~ 13.2	1.50	18.00	3,600	170.92	56.5	Tac	603-1081-ND	32.60	21.53	17.84	FFB1212SHE-F00	CR210-ND	1.72
		12	4.0 ~ 13.2	1.05	12.60	3,700	151.85	53.0	—	603-1082-ND	16.28	12.58	10.73	AFB1212SHE	CR210-ND	1.72
		12	7.0 ~ 13.2	2.00	24.00	4,000	190.00	59.0	Tac	603-1083-ND	32.60	21.53	17.84	FFB1212EHE-F00	CR210-ND	1.72
		12	8.0 ~ 13.2	2.70	32.40	4,800	217.80	64.0	—	603-1084-ND	42.00	27.74	22.99	PFB1212GHE	CR210-ND	1.72
		24	7.0 ~ 27.6	.240	5.76	2,600	105.94	41.0	—	603-1085-ND	16.94	13.09	10.98	AFB1224HE	CR210-ND	1.72
		24	7.0 ~ 27.6	.380	9.12	3,200	129.96	48.0	—	603-1086-ND	16.94	13.09	10.98	AFB1224VHE	CR210-ND	1.72
		24	14.0 ~ 26.4	1.00	24.00	4,000	190.00	59.0	—	603-1088-ND	33.52	22.14	18.35	FFB1224EHE	CR210-ND	1.72
		48	28.0 ~ 53.0	.500	24.00	4,000	190.00	59.0	Tac	603-1089-ND	38.29	25.29	20.96	FFB1248EHE-F00	CR210-ND	1.72
		48	32.0 ~ 80.0	.910	43.68	5,300	223.22	68.0	—	603-1090-ND	54.00	45.00	40.50	FHB1248UHE	CR210-ND	1.72
3	120 x 120 x 50.8	12	7.0 ~ 13.2	2.82	33.84	3,400	184.45	65.0	—	603-1091-ND	63.60	42.00	34.80	GFB1212VHG	CR210-ND	1.72
		24	14.0 ~ 26.4	1.80	43.20	3,700	203.41	67.6	—	603-1092-ND	63.60	42.00	34.80	GFB1224SHG	CR210-ND	1.72
1	127 x 127 x 38	12	7.0 ~ 13.2	1.85	22.20	3,450	180.00	56.5	—	603-1094-ND	31.20	25.60	22.40	FFB1312SHE	CR200-ND	2.51
		12	8.5 ~ 13.2	2.74	32.88	3,850	200.02	59.5	—	603-1095-ND	31.20	25.60	22.40	FFB1312EHE	CR200-ND	2.51
		24	14.0 ~ 26.4	.840	20.16	3,450	180.00	56.5	—	603-1096-ND	45.71	30.19	25.02	FFB1324SHE-B	CR200-ND	2.51
3	140 x 140 x 50.8	48	28.0 ~ 53.0	.770	36.96	3,600	273.09	61.7	Tac	603-1097-ND	74.86	49.44	40.97	FFB1448SHG-F00	CR196-ND	3.02
	172 x 150 x 25.4	12	6.0 ~ 14.0	.980	11.76	3,000	202.54	52.0	—	603-1126-ND	51.57	42.98	38.68	AFB1512H-A	CR196-ND	3.02
		12	6.0 ~ 14.0	1.17	14.04	3,200	214.85	53.5	—	603-1099-ND	51.57	42.98	38.68	AFB1512HH-A	CR196-ND	3.02
		24	12.0 ~ 30.0	.310	7.44	2,400	160.77	46.0	—	603-1125-ND	75.92	50.14	41.55	AFB1524L-A	CR196-ND	3.02
		48	32.0 ~ 80.0	.520	24.96	4,000	271.05	61.0	—	603-1101-ND	108.73	71.81	59.50	AHB1548EH	CR196-ND	3.02
	172 x 150 x 50.8	24	12.0 ~ 28.0	.560	13.44	3,350	251.79	55.0	—	603-1102-ND	68.90	45.50	37.70	EFB1524HG	CR196-ND	3.02
		24	12.0 ~ 28.0	.970	23.28	4,000	302.29	60.0	—	603-1103-ND	49.40	40.30	35.75	EFB1524VHG	CR196-ND	3.02
		48	24.0 ~ 60.0	.310	14.88	3,350	251.79	55.0	Tac	603-1104-ND	72.21	47.69	39.52	EFB1548HG-F00	CR196-ND	3.02
4	172 x 25.4	12	6.0 ~ 14.0	.980	11.76	3,000	202.54	52.0	—	603-1105-ND	61.79	50.41	44.72	AFB1712H-A	CR206-ND	2.84
		12	6.0 ~ 14.0	1.17	14.04	3,200	214.85	53.5	—	603-1106-ND	86.18	56.91	47.16	AFB1712HH-A	CR206-ND	2.84
		24	12.0 ~ 30.0	.310	7.44	2,400	160.77	46.0	—	603-1107-ND	61.79	50.41	44.72	AFB1724L-A	CR206-ND	2.84
		48	24.0 ~ 60.0	.270	12.96	3,000	202.54	52.0	—	603-1127-ND	90.26	59.61	49.39	AFB1748H-A	CR206-ND	2.84
	172 x 50.8	12	8.0 ~ 14.0	1.79	21.48	3,700	279.69	55.0	—	603-1109-ND	66.25	43.75	36.25	EFB1712HHG	CR206-ND	2.84
		24	12.0 ~ 28.0	1.17	28.08	4,300	325.00	59.0	Tac	603-1130-ND	48.56	40.17	36.10	EFB1724SHG-F00	CR206-ND	2.84
		48	26.0 ~ 54.0	1.90	91.20	4,600	432.77	72.0	—	603-1111-ND	52.20	43.50	39.15	FFB1748VHG	CR206-ND	2.84
NEW! PWM Control Axial Fans with Tach Output NEW!																
1	40 x 40 x 56	12	4.0 ~ 13.2	1.00	12.00	15,300	30.50	61.0	—	603-1161-ND	24.38	20.38	17.50	GFC0412DS-TP01	—	—
	60 x 60 x 38	12	8.0 ~ 13.2	1.50	18.0	12,000	66.75	61.5	—	603-1158-ND	16.61	12.84	10.76	AFC0612DE-AF00	—	—
		12	7.0 ~ 13.2	.90	10.80	9,000	54.79	60.0	—	603-1160-ND	17.85	14.45	12.12	FFC0612DE-F00	—	—
		12	10.8 ~ 13.2	1.40	16.80	12,000	67.85	61.5	—	603-1162-ND	17.85	14.45	12.12	PFC0612DE-F00	—	—
	80 x 80 x 15	12	7.0 ~ 12.6	.33	3.96	3,800	48.80	41.0	—	603-1159-ND	10.35	7.88	6.75	EFC0812DB-F00	—	—
	80 x 80 x 25.4	12	10.8 ~ 13.2	.19	2.28	3,600	42.02	39.0	—	603-1157-ND	8.76	6.57	5.48	AUB0812VH-SP00	—	—
	80 x 80 x 38	12	10.8 ~ 13.2	2.75	33.00	9,000	132.6	65.0	—	603-1166-ND	30.23	24.80	21.70	PFC0812DE-SP04	—	—
		12	7.0 ~ 13.2	.80	9.60	6,000	86.65	54.4	—	603-1167-ND	30.23	24.80	22.48	PFC0812DE-SP07	—	—
	92 x 92 x 25.4	12	8.0 ~ 13.2	.75	9.00	4,800	102.59	53.0	—	603-1156-ND	15.18	11.94	10.01	AFC0912D-AF00	—	—
	120 x 120 x 25.4	12	10.2 ~ 13.8	.53	6.36	3,400	113.11	46.5	—	603-1168-ND	14.67	11.54	9.68	AFC1212D-F00	—	—
	120 x 120 x 38	12	8.0 ~ 13.2	4.00	48.00	5,500	252.85	66.5	—	603-1164-ND	35.63	29.24	25.58	PFC1212DE-F00	—	—
		12	8.0 ~ 13.2	1.80	21.60	6,000	210.38	64.0	—	603-1165-ND	26.64	21.72	18.65	QFR1212GHE-SP01	—	—
Blowers																
5	30 x 30 x 10	12	7.0 ~ 13.2	.070	0.84	7,500	1.45	29.0	—	603-1112-ND	11.48	8.83	7.40	BFB0312HA-A	—	—
	40 x 40 x 10	5	4.0 ~ 6.0	.220	1.10	8,500	3.00	34.5	—	603-1113-ND	14.84	9.80	8.12	BFB0405HHA-A	—	—
6	51 x 51 x 15	12	10.0 ~ 13.8	.160	1.92	5,500	3.88	38.0	Locked Rotor	603-1114-ND	18.15	11.99	9.94	BFB0512H-R00	—	—
		12	10.0 ~ 13.8	.210	2.52	6,500	4.59	45.0	Tac	603-1115-ND	18.15	11.99	9.94	BFB0512HH-F00	—	—
		24	14.0 ~ 27.6	.110	2.64	6,500	4.59	45.0	—	603-1116-ND	17.49	11.55	9.57	BFB0524HH	—	—
	60 x 60 x 25	12	5.0 ~ 13.8	.180	2.16	3,200	6.71	34.0	—	603-1117-ND	12.60	9.69	8.12	BFB0612H	—	—
	75 x 75 x 30	12	7.0 ~ 13.8	.220	2.64	2,900	11.30	38.0	—	603-1118-ND	20.67	13.65	11.31	BFB0712H	—	—
	97 x 94 x 33	12	4.0 ~ 13.8	.800	9.60	3,600	25.43	52.0	Tac	603-1119-ND	24.38	16.10	13.34	BFB1012H-F00	—	—
		24	7.0 ~ 27.6	.400	9.60	3,600	25.43	52.0	Tac	603-1120-ND	24.38	16.10	13.34	BFB1024H-F00	—	—
	120 x 120 x 32	12	4.0 ~ 13.8	.400	4.80	2,100	24.70	47.0	Tac	603-1121-ND	26.63	17.59	14.58	BFB1212L-F00	—	—
		48	28.0 ~ 56.0	.220	10.56	2,800	35.31	54.0	—	603-1122-ND	20.60	16.79	14.42	BFB1248HH	—	—
	159 x 165 x 40	12	7.0 ~ 13.2	1.43	17.16	2,200	61.80	56.5	—	603-1123-ND	66.25	43.75	36.25	BFB1612H	—	—
		24	14.0 ~ 26.4	.560	13.44	2,000	55.09	54.5	—	603-1124-ND	66.25	43.75	36.25	BFB1624M	—	—

TAMURA Low Power 120VAC Transformers Class B

Electrical Specifications:
Primary Voltage: 120 VAC, 60Hz • Temperature Rise: 35°C maximum • Insulation Resistance: 100MΩ minimum • Dielectric Withstand: 3000Vrms (Primary to Secondary, Primary to Core) • Safety: Conforms to construction requirements of UL60950-1, UL60335-1, UL60065, UL5085-3 • Insulation System: UL1446 (UL recognized Electrical Insulation System, designated "CZ130H" (*Note: Electrical specifications are tested at 25°C*)

VA (Size)	Secondary RMS Rating Parallel VAC @ A	Secondary RMS Rating Series VCT @ A	Dimensions Inches (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	25	50	100	Tamura Part No.
3.0	3.0 @ 1.0	6.0 @ 0.500	1.38 (35.0)	1.42 (36.0)	1.40 (35.5)	MT7256-ND	3.45	2.76	2.21	2.07	1.87	SB3516-3006

SB35xx Series

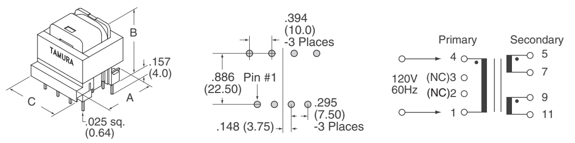

SPLITFORM® Power Transformers

For PC Board Solid-State Power, Control and Instrumentation Applications

File #'s
073078,
069808

UL 1585 Class 2 &3 - File #'s E96720, E95844
UL 506 - File #'s E79781, E91239
130B - File #92957

• 115V Single or 115/230V 50/60Hz dual primary • Split Bobbin Construction: – Center flange insulation barrier – High isolation for low leakage applications – Low capacitive coupling minimizes line noise and false triggering • 2,500V RMS (Pri: Sec) dielectric withstand • Precision spaced terminals • 130°C Class B insulation system • Terminal numbers are molded on bobbin • 1.1VA size Inherently limited and all others Non-Inherently limited

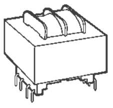

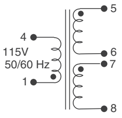

115V Single Primary

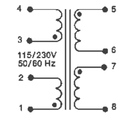

115V/230V Dual Primary

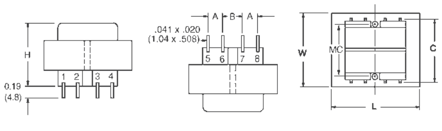

(Pins 2 and 3 omitted on 115V Single Primary)

3F(X) Series	VA Size	Dimensions – Inch (mm) L	W	H	MC	A	B	C	Weight Lbs. (kg)
2	1.1	1.44 (36.58)	1.23 (31.24)	1.00 (25.40)	—	.250 (6.35)	.250 (6.35)	1.200 (30.48)	0.17 (.077)
3	2.4	1.44 (36.58)	1.23 (31.24)	1.26 (32.00)	—	.250 (6.35)	.250 (6.35)	1.200 (30.48)	0.25 (.113)
4	6	1.69 (42.93)	1.39 (35.31)	1.36 (34.54)	1.063 (27.00)	.250 (6.35)	.350 (8.89)	1.280 (32.51)	0.44 (.200)
5	12	1.97 (50.04)	1.63 (41.40)	1.50 (38.10)	1.250 (31.75)	.300 (7.62)	.400 (10.16)	1.410 (35.81)	0.70 (.318)

VA (Size)	Secondary RMS Rating Parallel VAC @ A	Secondary RMS Rating Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	100	Tamura Part No.
			115V Single Primary						
1.1	5.0 @ 0.220	10.0 @ 0.110	MT2201-ND◆	3.75	3.00	2.40	2.25	2.03	3FS-210
2.4	5.0 @ 0.500	10.0 @ 0.250	MT2202-ND	4.13	3.30	2.64	2.48	2.23	3FS-310
6	5.0 @ 1.200	10.0 @ 0.600	MT2203-ND	7.35	5.88	4.71	4.41	3.97	3FS-410
12	5.0 @ 2.400	10.0 @ 1.200	MT2204-ND◆	10.13	8.10	6.48	6.08	5.47	3FS-510
1.1	6.3 @ 0.180	12.6 @ 0.090	MT2205-ND◆	3.75	3.00	2.40	2.25	2.03	3FS-212
2.4	6.3 @ 0.400	12.6 @ 0.200	MT2206-ND◆	4.13	3.30	2.64	2.48	2.23	3FS-312
6	6.3 @ 1.000	12.6 @ 0.500	MT2207-ND◆	7.35	5.88	4.71	4.41	3.97	3FS-412
12	6.3 @ 2.000	12.6 @ 1.000	MT2208-ND◆	10.13	8.10	6.48	6.08	5.47	3FS-512
1.1	8.0 @ 0.140	16.0 @ 0.070	MT2209-ND◆	3.75	3.00	2.40	2.25	2.03	3FS-216
2.4	8.0 @ 0.300	16.0 @ 0.150	MT2210-ND◆	4.13	3.30	2.64	2.48	2.23	3FS-316
6	8.0 @ 0.800	16.0 @ 0.400	MT2211-ND◆	7.35	5.88	4.71	4.41	3.97	3FS-416
12	8.0 @ 1.600	16.0 @ 0.800	MT2212-ND◆	10.13	8.10	6.48	6.08	5.47	3FS-516
1.1	10.0 @ 0.110	20.0 @ 0.055	MT2213-ND◆	3.75	3.00	2.40	2.25	2.03	3FS-220
2.4	10.0 @ 0.240	20.0 @ 0.120	MT2214-ND◆	4.13	3.30	2.64	2.48	2.23	3FS-320
6	10.0 @ 0.600	20.0 @ 0.300	MT2215-ND◆	7.35	5.88	4.71	4.41	3.97	3FS-420
12	10.0 @ 1.200	20.0 @ 0.600	MT2216-ND◆	10.13	8.10	6.48	6.08	5.47	3FS-520
1.1	12.0 @ 0.090	24.0 @ 0.045	MT2217-ND◆	3.75	3.00	2.40	2.25	2.03	3FS-224
2.4	12.0 @ 0.200	24.0 @ 0.100	MT2218-ND◆	4.13	3.30	2.64	2.48	2.23	3FS-324
6	12.0 @ 0.500	24.0 @ 0.250	MT2219-ND◆	7.35	5.88	4.71	4.41	3.97	3FS-424
12	12.0 @ 1.000	24.0 @ 0.500	MT2220-ND◆	10.13	8.10	6.48	6.08	5.47	3FS-524
1.1	14.0 @ 0.080	28.0 @ 0.040	MT2221-ND◆	3.75	3.00	2.40	2.25	2.03	3FS-228
2.4	14.0 @ 0.170	28.0 @ 0.085	MT2222-ND◆	4.13	3.30	2.64	2.48	2.23	3FS-328
6	14.0 @ 0.400	28.0 @ 0.200	MT2223-ND◆	7.35	5.88	4.71	4.41	3.97	3FS-428
12	14.0 @ 0.840	28.0 @ 0.420	MT2224-ND◆	10.13	8.10	6.48	6.08	5.47	3FS-528
1.1	18.0 @ 0.060	36.0 @ 0.030	MT2225-ND◆	3.75	3.00	2.40	2.25	2.03	3FS-236
2.4	18.0 @ 0.130	36.0 @ 0.065	MT2226-ND◆	4.13	3.30	2.64	2.48	2.23	3FS-336
6	18.0 @ 0.340	36.0 @ 0.170	MT2227-ND◆	7.35	5.88	4.71	4.41	3.97	3FS-436
12	18.0 @ 0.700	36.0 @ 0.350	MT2228-ND◆	10.13	8.10	6.48	6.08	5.47	3FS-536
1.1	24.0 @ 0.046	48.0 @ 0.023	MT2229-ND◆	3.75	3.00	2.40	2.25	2.03	3FS-248
2.4	24.0 @ 0.100	48.0 @ 0.050	MT2230-ND◆	4.13	3.30	2.64	2.48	2.23	3FS-348
6	24.0 @ 0.250	48.0 @ 0.125	MT2231-ND	7.35	5.88	4.71	4.41	3.97	3FS-448
12	24.0 @ 0.500	48.0 @ 0.250	MT2232-ND◆	10.13	8.10	6.48	6.08	5.47	3FS-548
1.1	28.0 @ 0.040	56.0 @ 0.020	MT2233-ND◆	3.75	3.00	2.40	2.25	2.03	3FS-256
2.4	28.0 @ 0.090	56.0 @ 0.045	MT2234-ND◆	4.13	3.30	2.64	2.48	2.23	3FS-356
6	28.0 @ 0.220	56.0 @ 0.110	MT2235-ND◆	7.35	5.88	4.71	4.41	3.97	3FS-456
12	28.0 @ 0.440	56.0 @ 0.220	MT2236-ND◆	10.13	8.10	6.48	6.08	5.47	3FS-556

VA (Size)	Secondary RMS Rating Parallel VAC @ A	Secondary RMS Rating Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	100	Tamura Part No.
			115V/230V Dual Primary						
1.1	5.0 @ 0.220	10.0 @ 0.110	MT2096-ND◆	3.83	3.06	2.45	2.30	2.07	3FD-210
2.4	5.0 @ 0.500	10.0 @ 0.250	MT2097-ND◆	4.38	3.50	2.80	2.63	2.37	3FD-310
6	5.0 @ 1.200	10.0 @ 0.600	MT2098-ND◆	7.75	6.20	4.96	4.65	4.19	3FD-410
12	5.0 @ 2.400	10.0 @ 1.200	MT2099-ND◆	10.55	8.44	6.76	6.33	5.70	3FD-510
1.1	6.3 @ 0.180	12.6 @ 0.090	MT2101-ND	3.83	3.06	2.45	2.30	2.07	3FD-212
2.4	6.3 @ 0.400	12.6 @ 0.200	MT2102-ND◆	4.38	3.50	2.80	2.63	2.37	3FD-312
6.0	6.3 @ 1.000	12.6 @ 0.500	MT2103-ND◆	7.75	6.20	4.96	4.65	4.19	3FD-412
12	6.3 @ 2.000	12.6 @ 1.000	MT2104-ND◆	10.55	8.44	6.76	6.33	5.70	3FD-512
1.1	8.0 @ 0.140	16.0 @ 0.070	MT2105-ND◆	3.83	3.06	2.45	2.30	2.07	3FD-216
2.4	8.0 @ 0.300	16.0 @ 0.150	MT2106-ND◆	4.38	3.50	2.80	2.63	2.37	3FD-316
6.0	8.0 @ 0.800	16.0 @ 0.400	MT2107-ND◆	7.75	6.20	4.96	4.65	4.19	3FD-416
12	8.0 @ 1.600	16.0 @ 0.800	MT2108-ND◆	10.55	8.44	6.76	6.33	5.70	3FD-516
1.1	10.0 @ 0.110	20.0 @ 0.055	MT2109-ND◆	3.83	3.06	2.45	2.30	2.07	3FD-220
2.4	10.0 @ 0.240	20.0 @ 0.120	MT2110-ND◆	4.38	3.50	2.80	2.63	2.37	3FD-320
6.0	10.0 @ 0.600	20.0 @ 0.300	MT2111-ND◆	7.75	6.20	4.96	4.65	4.19	3FD-420
12	10.0 @ 1.200	20.0 @ 0.600	MT2112-ND◆	10.55	8.44	6.76	6.33	5.70	3FD-520
1.1	12.0 @ 0.090	24.0 @ 0.045	MT2113-ND◆	3.83	3.06	2.45	2.30	2.07	3FD-224
2.4	12.0 @ 0.200	24.0 @ 0.100	MT2114-ND◆	4.38	3.50	2.80	2.63	2.37	3FD-324
6.0	12.0 @ 0.500	24.0 @ 0.250	MT2115-ND◆	7.75	6.20	4.96	4.65	4.19	3FD-424
12	12.0 @ 1.000	24.0 @ 0.500	MT2116-ND◆	10.55	8.44	6.76	6.33	5.70	3FD-524
1.1	14.0 @ 0.080	28.0 @ 0.040	MT2117-ND◆	3.83	3.06	2.45	2.30	2.07	3FD-228
2.4	14.0 @ 0.170	28.0 @ 0.085	MT2118-ND◆	4.38	3.50	2.80	2.63	2.37	3FD-328
6.0	14.0 @ 0.400	28.0 @ 0.200	MT2119-ND◆	7.75	6.20	4.96	4.65	4.19	3FD-428
12	14.0 @ 0.840	28.0 @ 0.420	MT2120-ND◆	10.55	8.44	6.76	6.33	5.70	3FD-528
1.1	18.0 @ 0.060	36.0 @ 0.030	MT2121-ND◆	3.83	3.06	2.45	2.30	2.07	3FD-236
2.4	18.0 @ 0.130	36.0 @ 0.065	MT2122-ND◆	4.38	3.50	2.80	2.63	2.37	3FD-336
6.0	18.0 @ 0.340	36.0 @ 0.170	MT2123-ND	7.75	6.20	4.96	4.65	4.19	3FD-436
12	18.0 @ 0.700	36.0 @ 0.350	MT2124-ND◆	10.55	8.44	6.76	6.33	5.70	3FD-536
1.1	24.0 @ 0.046	48.0 @ 0.023	MT2125-ND◆	3.83	3.06	2.45	2.30	2.07	3FD-248
2.4	24.0 @ 0.100	48.0 @ 0.050	MT2126-ND◆	4.38	3.50	2.80	2.63	2.37	3FD-348
6	24.0 @ 0.250	48.0 @ 0.125	MT2127-ND◆	7.75	6.20	4.96	4.65	4.19	3FD-448
12	24.0 @ 0.500	48.0 @ 0.250	MT2128-ND◆	10.55	8.44	6.76	6.33	5.70	3FD-548
1.1	28.0 @ 0.040	56.0 @ 0.020	MT2129-ND◆	3.83	3.06	2.45	2.30	2.07	3FD-256
2.4	28.0 @ 0.090	56.0 @ 0.045	MT2130-ND◆	4.38	3.50	2.80	2.63	2.37	3FD-356
6	28.0 @ 0.220	56.0 @ 0.110	MT2131-ND◆	7.75	6.20	4.96	4.65	4.19	3FD-456
12	28.0 @ 0.440	56.0 @ 0.220	MT2132-ND◆	10.55	8.44	6.76	6.33	5.70	3FD-556

Note: To obtain output voltage, load current must be met, ratings are based on nominal input.

◆ ***RoHS Compliant***

TAMURA Worldtrans® Power Transformers
For PC Board Solid-State Power, Control, and Instrumentation Applications

Specifications:
• Meets US and International Safety Standards: UL, EN, CSA • Dual non-concentric bobbin and insulating shroud provide high isolation and reduce capacitance • Dielectric Withstand: 3750Vrms (Pri: Sec) • Safety: Conforms to construction requirements of UL1411, UL506, UL1446, EN61558-1, EN61558-2-6, CSA No. 66 • Insulation System: 130°C UL recognized Electrical Insulation System • Insulating materials meet 94V-0 flammability requirements • Non-Inherently limited • Primary: 115/230VAC, 50/60Hz

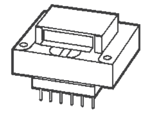

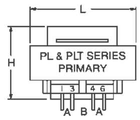

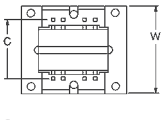

CSA No.66
File #069222

EN61558-1,-2-6
TUV File #2065818

Fig. 1

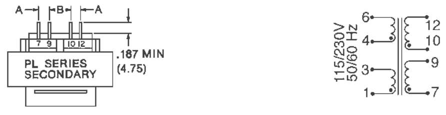

EN61558-1,-2-6
TUV File #2065818

UL506 File #E79781
UL1411 File #E138028

Fig. 2

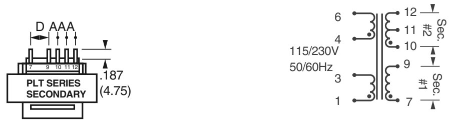

EN61558-1,-2-6
TUV File #2065818

UL506 File #E79781
UL1411 File #E138028

VA Size	Dimensions – Inch (mm)							Mtg. Screw	Pin Square In. (mm)	Wt. Lbs. (kg)
	L	W	H	A†	B	C	D			
2.5	1.625 (41.28)	1.313 (33.35)	1.125 (28.58)	.200 (5.08)	.250 (6.35)	1.000 (25.40)	—	2x #4	.025 (.64)	.25 (.11)
5.0	1.625 (41.28)	1.313 (33.35)	1.375 (34.93)	.200 (5.08)	.400 (10.16)	1.000 (25.40)	—	2x #4	.025 (.64)	.37 (.17)
10.0	1.875 (47.63)	1.563 (39.70)	1.375 (34.93)	.200 (5.08)	.400 (10.16)	1.140 (28.96)	—	2x #4	.036 (.91)	.53 (.24)
20.0	2.250 (57.15)	1.875 (47.63)	1.625 (41.28)	.400 (10.16)	.400 (10.16)	1.460 (37.08)	.40 (10.16)	2x #4	.036 (.91)	.90 (.41)
30.0	2.625 (66.68)	2.188 (55.58)	1.563 (39.70)	.550 (13.97)	.275 (6.98)	1.680 (42.67)	.55 (13.97)	4x #4	.045 (1.14)	1.15 (.52)
56.0	3.000 (76.20)	2.500 (63.50)	1.845(46.86)	.600 (15.24)	.300 (7.62)	1.900 (48.26)	.60 (15.24)	4x #6	.045 (1.14)	1.70 (.77)

† For PLT series secondary only, dimension A is 1/2 of value shown.

Fig.	VA (Size)	Secondary RMS Rating Parallel VAC @ A	Secondary RMS Rating Series VCT @ A	Digi-Key Part No.	Price Each* 1	Price Each* 10	Price Each* 25	Tamura Part No.
				PL Series — Dual Output Low Profile				
1	2.5	5 @ 0.5	10 @ 0.25	MT3101-ND◆	6.23	4.98	3.99	PL2.5-10-130B
	5.0	5 @ 1.0	10 @ 0.5	MT3102-ND◆	7.38	5.90	4.72	PL5.0-10-130B
	10.0	5 @ 2.0	10 @ 1.0	MT3103-ND◆	8.90	7.12	5.70	PL10-10-130B
	20.0	5 @ 4.0	10 @ 2.0	MT3104-ND◆	13.10	10.48	8.39	PL20-10-130B
	30.0	5 @ 6.0	10 @ 3.0	MT3105-ND	17.03	13.62	10.90	PL30-10-130B
	56.0	5 @ 11.2	10 @ 5.6	MT3106-ND◆	26.05	20.84	16.68	PL56-10-130B
	2.5	6.3 @ 0.4	12.6 @ 0.2	MT3107-ND	6.23	4.98	3.99	PL2.5-12-130B
	5.0	6.3 @ 0.8	12.6 @ 0.4	MT3108-ND◆	6.18	4.94	3.96	PL5.0-12-130B
	10.0	6.3 @ 1.6	12.6 @ 0.8	MT3109-ND◆	8.65	6.92	5.54	PL10-12-130B
	20.0	6.3 @ 3.2	12.6 @ 1.6	MT3110-ND◆	13.10	10.48	8.39	PL20-12-130B
	30.0	6.3 @ 4.8	12.6 @ 2.4	MT3111-ND◆	17.03	13.62	10.90	PL30-12-130B
	56.0	6.3 @ 8.8	12.6 @ 4.4	MT3112-ND◆	26.05	20.84	16.68	PL56-12-130B
	2.5	8 @ 0.3	16 @ 0.15	MT3113-ND◆	6.13	4.90	3.92	PL2.5-16-130B
	5.0	8 @ 0.62	16 @ 0.31	MT3114-ND◆	5.50	4.40	3.52	PL5.0-16-130B
	10.0	8 @ 1.25	16 @ 0.62	MT3115-ND◆	7.88	6.30	5.04	PL10-16-130B
	20.0	8 @ 2.5	16 @ 1.25	MT3116-ND◆	13.10	10.48	8.39	PL20-16-130B
	30.0	8 @ 3.8	16 @ 1.9	MT3117-ND◆	17.03	13.62	10.90	PL30-16-130B
	56.0	8 @ 7.0	16 @ 3.5	MT3118-ND◆	26.05	20.84	16.68	PL56-16-130B
	2.5	10 @ 0.24	20 @ 0.12	MT3119-ND◆	5.78	4.62	3.70	PL2.5-20-130B
	5.0	10 @ 0.5	20 @ 0.25	MT3120-ND◆	5.50	4.40	3.52	PL5.0-20-130B
	10.0	10 @ 1.0	20 @ 0.5	MT3121-ND◆	8.90	7.12	5.70	PL10-20-130B
	20.0	10 @ 2.0	20 @ 1.0	MT3122-ND◆	13.10	10.48	8.39	PL20-20-130B
	30.0	10 @ 3.0	20 @ 1.5	MT3123-ND◆	17.03	13.62	10.90	PL30-20-130B
	56.0	10 @ 5.6	20 @ 2.8	MT3124-ND	26.05	20.84	16.68	PL56-20-130B
	2.5	12 @ 0.2	24 @ 0.1	MT3125-ND◆	5.78	4.62	3.70	PL2.5-24-130B
	5.0	12 @ 0.42	24 @ 0.21	MT3126-ND◆	5.48	4.38	3.51	PL5.0-24-130B
	10.0	12 @ 0.84	24 @ 0.42	MT3127-ND◆	8.90	7.12	5.70	PL10-24-130B
	20.0	12 @ 1.66	24 @ 0.83	MT3128-ND◆	13.10	10.48	8.39	PL20-24-130B
	30.0	12 @ 2.5	24 @ 1.25	MT3129-ND◆	17.03	13.62	10.90	PL30-24-130B
	56.0	12 @ 4.66	24 @ 2.33	MT3130-ND◆	26.05	20.84	16.68	PL56-24-130B
	2.5	14 @ 0.18	28 @ 0.09	MT3131-ND◆	6.23	4.98	3.99	PL2.5-28-130B
	5.0	14 @ 0.36	28 @ 0.18	MT3132-ND◆	6.18	4.94	3.96	PL5.0-28-130B
	10.0	14 @ 0.72	28 @ 0.36	MT3133-ND◆	8.90	7.12	5.70	PL10-28-130B
	20.0	14 @ 1.44	28 @ 0.72	MT3134-ND◆	13.10	10.48	8.39	PL20-28-130B
	30.0	14 @ 2.12	28 @ 1.06	MT3135-ND◆	17.03	13.62	10.90	PL30-28-130B
	56.0	14 @ 4.0	28 @ 2.0	MT3136-ND◆	26.05	20.84	16.68	PL56-28-130B
	2.5	18 @ 0.14	36 @ 0.07	MT3137-ND	6.23	4.98	3.99	PL2.5-36-130B
	5.0	18 @ 0.28	36 @ 0.14	MT3138-ND	5.48	4.38	3.51	PL5.0-36-130B
	10.0	18 @ 0.56	36 @ 0.28	MT3139-ND	8.93	7.14	5.72	PL10-36-130B
	20.0	18 @ 1.12	36 @ 0.56	MT3140-ND◆	13.10	10.48	8.39	PL20-36-130B
	30.0	18 @ 1.64	36 @ 0.82	MT3141-ND◆	17.03	13.62	10.90	PL30-36-130B
	56.0	18 @ 3.12	36 @ 1.56	MT3142-ND◆	26.05	20.84	16.68	PL56-36-130B

Fig.	VA (Size)	Sec. #1 VAC @ A	Sec. #2 VCT @ A	Digi-Key Part No.	Price Each* 1	Price Each* 10	Price Each* 25	Tamura Part No.
				PLT Series — Triple Output				
2	20.0	9.3 @1.5	27.5 @ .22	MT3143-ND†	13.10	10.48	8.39	PLT20-32-130B
	30.0	9.3 @ 2.2	27.5 @ .34	MT3144-ND†	17.03	13.62	10.90	PLT30-32-130B
	56.0	9.3 @4.0	27.5 @ .68	MT3145-ND◆†	26.05	20.84	16.68	PLT56-32-130B

Note: *To obtain output voltage, load current must be met, ratings based on nominal input voltage.*
◆ RoHS Compliant † Intended for use as a regulated power supply transformer, example: 5VDC and ±12VDC. * Call for price on quantities of 50 or more.

FLAT STACK® Low Profile Power Transformers

For low height PC Board Solid-State Power, Control, and Instrumentation

Split Bobbin:
- Primaries and secondaries wound side by side
- High isolation for low leakage applications 1,500Vrms (Pri: Sec) Dielectric withstand
- Low capacity coupling minimizes line noise and false triggering.
- Hum-bucking semi-toroidal construction
- Non-Inherently limited
- Dual primaries: 115/230V, 50/60Hz

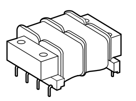

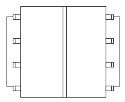

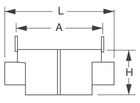

UL 506 File #E145619, E79781
130°C Insulation System, File# E92957

CSA22,2 No. 66
File # 081383

Fig. 1

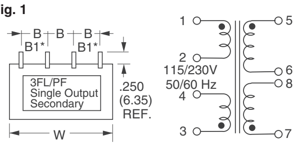

Fig. 2

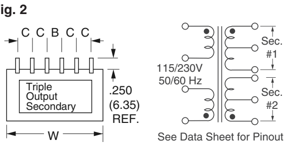

See Data Sheet for Pinout

VA (Size)	Dimensions – Inch							Weight Oz. (Gram)
	L	W	H	A	B	B1*	C	
2.5	1.87	1.56	0.65	1.6	.375	—	.187	5 (141.75)
6	1.87	1.56	0.85	1.6	.375	—	.187	7 (198.44)
12	2.5	2.0	1.065	2.0	.500	—	.250	11 (311.84)
24	2.87	2.25	1.25	1.9	.530	.600	.300	15 (425.24)

B1* : For PF24 Series only.

Fig.	VA (Size)	Secondary RMS Rating Parallel VAC @ A	Secondary RMS Rating Series VCT @ A	Digi-Key Part No.	Price Each* 1	Price Each* 10	Price Each* 25	Tamura Part No.
1	2.5	5.0 @ 0.5	10 @ 0.25	MT1101-ND	7.43	5.94	4.76	3FL10-250
	6.0	5.0 @ 1.2	10 @ 0.6	MT1102-ND◆	8.25	6.60	5.28	3FL10-600
	12.0	5.0 @ 2.4	10 @ 1.2	MT1103-ND◆	15.55	12.44	9.96	3FL10-1200
	24.0	5.0 @ 4.8	10 @ 2.4	MT1104-ND◆	18.38	14.70	11.76	PF24-10
	2.5	6.3 @ 0.4	12.6 @ 0.2	MT1105-ND◆	7.43	5.94	4.76	3FL12-200
	6.0	6.3 @ 0.9	12.6 @ 0.45	MT1106-ND◆	8.23	6.58	5.27	3FL12-475
	12.0	6.3 @ 1.9	12.6 @ 0.95	MT1107-ND◆	15.55	12.44	9.96	3FL12-950
	24.0	6.3 @ 3.8	12.6 @ 1.9	MT1108-ND◆	18.38	14.70	11.76	PF24-12
	2.5	8 @ 0.3	16 @ 0.15	MT1109-ND◆	7.43	5.94	4.76	3FL16-150
	6.0	8 @ 0.7	16 @ 0.35	MT1110-ND◆	8.23	6.58	5.27	3FL16-350
	12.0	8 @ 1.5	16 @ 0.75	MT1111-ND◆	15.55	12.44	9.96	3FL16-700
	2.5	10 @ 0.25	20 @ 0.125	MT1113-ND◆	7.43	5.94	4.76	3FL20-125
	6.0	10 @ 0.6	20 @ 0.3	MT1114-ND◆	8.23	6.58	5.27	3FL20-300
	12.0	10 @ 1.2	20 @ 0.6	MT1115-ND◆	15.55	12.44	9.96	3FL20-600
	24.0	10 @ 2.4	20 @ 1.2	MT1116-ND◆	18.43	14.74	11.80	PF24-20
	2.5	12 @ 0.2	24 @ 0.1	MT1117-ND◆	7.43	5.94	4.76	3FL24-100
	6.0	12 @ 0.5	24 @ 0.25	MT1118-ND◆	8.23	6.58	5.27	3FL24-250
	12.0	12 @ 1.0	24 @ 0.5	MT1119-ND	15.55	12.44	9.96	3FL24-500
	24.0	12 @ 2.0	24 @ 1.0	MT1120-ND◆	18.38	14.70	11.76	PF24-24
	2.5	15 @ 0.17	30 @ 0.085	MT1121-ND◆	7.40	5.92	4.74	3FL30-85
	6.0	15 @ 0.4	30 @ 0.2	MT1122-ND◆	10.08	8.06	6.45	3FL30-200
	12.0	15 @ 0.8	30 @ 0.4	MT1123-ND◆	15.55	12.44	9.96	3FL30-400
	24.0	15 @ 1.6	30 @ 0.8	MT1124-ND	18.38	14.70	11.76	PF24-30
	2.5	17 @ 0.15	34 @ .075	MT1125-ND◆	7.40	5.92	4.74	3FL34-75
	6.0	17 @ 0.34	34 @ 0.17	MT1126-ND◆	8.23	6.58	5.27	3FL34-170
	12.0	17 @ 0.7	34 @ 0.35	MT1127-ND◆	15.55	12.44	9.96	3FL34-340
	24.0	17 @ 1.4	34 @ 0.7	MT1128-ND◆	18.38	14.70	11.76	PF24-34

Fig.	VA (Size)	Sec. #1 VCT @ A	Sec. #2 VCT @ A	Digi-Key Part No.	Price Each* 1	Price Each* 10	Price Each* 25	Tamura Part No.
				PFT Series — Up to 4 Outputs				
2	6.0	17.5 @ .155	31.5@ .065	MT1129-ND◆†	8.63	6.90	5.52	PFT6-32
	6.0	17.5 @ .155	37.5 @ .060	MT1130-ND†	8.63	6.90	5.52	PFT6-38
	12.0	16 @ .36	28 @ .187	MT1132-ND◆†	19.75	15.80	12.64	PFT12-28
	12.0	16 @ .36	35 @ .150	MT1131-ND◆†	17.50	14.00	11.20	PFT12-35
	24.0	16 @ .72	28 @ .375	MT1134-ND◆†	19.30	15.44	12.36	PFT24-28
	24.0	16 @ .72	35 @ .300	MT1133-ND◆†	19.30	15.44	12.36	PFT24-35

Note: *To obtain output voltage, load current must be met, ratings based on nominal input*
◆ RoHS Compliant † Intended for use as a regulated power supply transformer, Example: 5VDC, and ± 12VDC or ± 15VDC
* Call for price on quantities of 50 or more

TAMURA

Telephone Coupling Transformers

UL1950 3rd Edition Safety Approval:
(Additional Safety Agency approvals may apply, UL60950/EN60950, see data sheet for qualifications): This product meets the UL 1950 standard in telecom agency safety ratings, this implies that they meet new creepage and clearance distance requirements of the telecommunication industry and safety agencies. UL #E208555

UL 1459 Safety Approval:
UL1459 is a trusted safety standard for interconnecting data/ voice communication lines and other isolation designs. • **Frequency Response:** 300 ~ 3,500Hz ±0.5dB • **Impedance Matching:** ±10% UL1459, FFC part 68, File #138028
Note: Drawings show maximum number of pins, actual parts may have fewer pins

Fig. 1

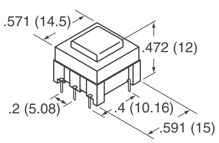

Fig. 2

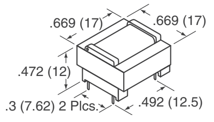

Fig. 3

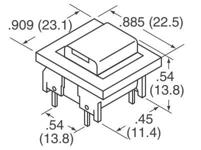

Fig. 4

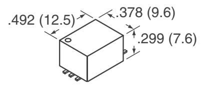

Fig. 5

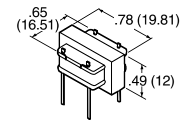

Schematics

A

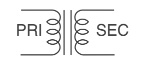

B

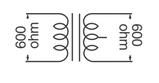

C

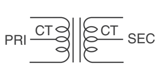

Fig. 6

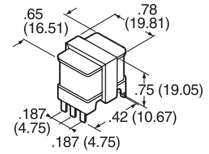

Fig. 7

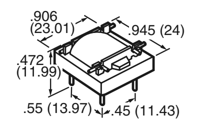

Fig. 8 - Surface Mount

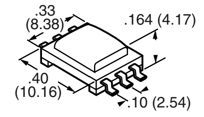

Fig. 9

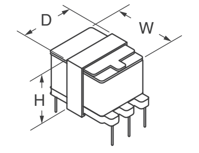

	Dimensions Inch (mm): W	D	H
MT4139-ND	.69	.61	.55
(TTC-167)	(17.5)	(15.5)	(14.0)
MT4140-ND	.51	53	.42
(TTC-170)	(13.0)	(13.4)	(10.7)

Fig.	Impedance (Ω) Primary	Impedance (Ω) Secondary	IDC Bias (mA)	Insertion Loss (dB)◊	Schematic	Pinout Primary	Pinout Secondary	Dielectric Strength Vrms (Pri./Sec.)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Tamura Part No.
						UL1950 3rd Edition Safety Approval							
1	600	600	0	1.50	A	1Δ - 3	4 - 6Δ	1,875	MT7207-ND◆	3.73	2.98	2.39	TTC-5017
2	600	600	0	1.00	A	1 - 3Δ	4Δ - 6	1,875	MT7213-ND◆	4.43	3.54	2.84	TTC-5029
3	600	260	50	4.00	A	1 - 2Δ	3Δ - 4	1,875	MT7235-ND◆	3.78	3.02	2.42	TTC-5019
	600	301	65	3.75	A	1Δ - 2	3 - 4Δ	1,875	MT7236-ND◆	2.95	2.36	1.89	TTC-5020
4	10K	10K	0	0.88§	A	1Δ - 3	4 - 6Δ	1,875	MT7215CT-ND◆†	3.84	3.54	2.95	TTC-5033
						UL1459 Safety Approval — RoHS Compliant							
5	600	600	0	1.0	A	1 - 3Δ	4 - 6Δ	1,500	MT4112-ND	5.75	4.60	3.68	T1104
	600	600	0	1.2	A	1 - 3	4 - 6Δ	1,500	MT4133-ND	4.63	3.70	2.96	TTC-02
6	600	600	90	2.0	A	1 - 3Δ	4 - 6Δ	1,500	MT4134-ND‡	3.98	3.18	2.55	TTC-105
	600	600CT	90	2.0	B	1 - 3	4-5CT-6Δ	1,500	MT4135-ND‡	3.85	3.08	2.47	TTC-105-1
	600CT	600CT	0	1.2	C	1Δ-2CT-3	4Δ-5CT-6	1,500	MT4136-ND	4.05	3.24	2.60	TTC-108
7	600	470	100	2.5	A	1 - 2Δ	3Δ - 4	1,500	MT4123-ND	3.43	2.74	2.20	TTC-264
8	600	346	0	2.75	A	1Δ - 3	4 - 6Δ	1,000	MT4122-ND	10.68	8.54	6.84	TTC-203SL
9	10K	10K	0	1.4	A	1 - 3Δ	4 - 6Δ	1,000	MT4139-ND‡	5.10	4.08	3.27	TTC-167
	600	600	0	1.7	A	1 - 3Δ	4 - 6Δ	1,500	MT4140-ND‡	4.55	3.64	2.92	TTC-170

◆ ***RoHS Compliant*** ◊ Typical insertion loss (IL) in dB @ rated unbalanced maDC, 0dBm and 1kHz Δ Denotes start of a winding † Cut Tape § Insertion Loss is tested @ 2KHz ‡ Has a 4-pin configuration

Encapsulated Transformers — MIL-T-27 Type

Telecom, Input, Interface, Isolation and Output Impedance Matching

Specifications: • Operating Frequency: 0.3 ~ 100kHz • Frequency Response: see datasheet • Operating Temperature: 105°C Max. • Withstand Voltage: 500Vrms (few models do meet 1kVrms, see datasheet) • FCC Part 68 Models available

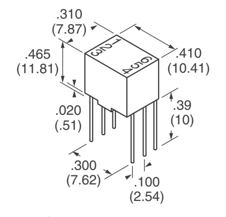

Pin configurations vary, see datasheet

Matching Impedance Primary : Secondary	Primary § (maDC)	Max. Power @ 300Hz (mW)	Pin Location Primary	Pin Location Secondary	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Tamura Part No.
200kCT : 1kCT	0.00	10	1 - 2CT - 3	4 - 5CT - 6	MT4143-ND◆	11.73	9.38	7.51	MET-01
25kCT : 1kCT	0.50	30	1 - 2CT - 3	4 - 5CT - 6	MT4144-ND◆	13.15	10.52	8.42	MET-05
10kCT : 10 kCT	1.00	40	1 - 2CT - 3	4 - 5CT - 6	MT4145-ND◆	9.68	7.74	6.20	MET-09
10kCT : 2kCT	1.00	40	1 - 2CT - 3	4 - 5CT - 6	MT4146-ND◆	10.68	8.54	6.84	MET-11
10kCT : 500CT	1.00	40	1 - 2CT - 3	4 - 5CT - 6	MT4147-ND◆	13.15	10.52	8.42	MET-17
1.6kCT : 3.2	2.50	65	1 - 2CT - 3	4 - 6	MT4148-ND◆	11.00	8.80	7.04	MET-23
1k : 50	3.00	50	1 - 3	4 - 6	MT4149-ND◆	10.08	8.06	6.45	MET-28
900CT : 600	3.00	50	1 - 2CT - 3	4 - 6	MT4150-ND	12.03	9.62	7.70	MET-29
600CT : 600CT	3.00	50	1 - 2CT - 3	4 - 5CT - 6	MT4111-ND◆	11.00	8.80	7.04	MET-31
600 : 600CT†	3.00	50	1 - 2	3 - 4 / 5 - 6	MT4151-ND◆	9.83	7.86	6.29	MET-32
600CT : 8	4.50	50	1 - 2CT - 3	4 - 6	MT4153-ND◆	10.40	8.32	6.66	MET-35
500 : 500CT†	3.00	50	1 - 2	3 - 4 / 5 - 6	MT4154-ND	9.78	8.81	7.83	MET-38
500 : 50	3.00	50	1 - 3	4 - 6	MT4155-ND◆	8.43	6.74	5.40	MET-39
150 : 12	10.00	50	1 - 3	4 - 6	MT4156-ND	10.88	8.70	6.96	MET-42
600 : 600	3.00	50	1 - 3	4 - 6	MT4110-ND	9.75	7.80	6.24	MET-46
600 : 600CT	3.00	50	1 - 2	3 - 4 / 5 - 6	MT4152-ND◆Δ	11.73	9.38	7.51	MET-59
MU Metal Shield, MET Series, Slip-On Can					MT4157-ND◆	7.25	5.80	4.64	METC-99

◆ ***RoHS Compliant*** † CT-Winding can be connected as a center tapped winding or as two isolated windings. Δ Has special pinout § PRI maDC-Primary maximum rated unbalanced current in milli-amps, DC.

Encapsulated Pulse Transformers Isolation and Data Interface

Specifications: • **Average Power Rating (40°C Rise):** 500mW • **Dissipation Rating:** 150mW • **Peak Pulse Voltage:** 100V • **Dielectric Strength:** DC500V 1 minute • **Insulation Resistance:** DC500V 10000MΩ minimum

Primary Inductance mH (min.)	Primary ET Product V μS (min.)	Rise Time ns (max.)	Pin Out Primary	Pin Out Secondary	Pin Out Tertiary	Turns Ratio (±5%) Pri : Sec : Ter	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Tamura Part No.
4.50	25.0	10.5	1, 2	3, 4	5, 6	1 : 1 : 1	MT4201-ND◆	6.70	5.36	4.29	G500
0.50	8.5	5.3	1, 2	3, 4	5, 6	1 : 1 : 1	MT4203-ND	12.55	10.04	8.04	G502
0.20	5.0	4.2	1, 2	3, 4	5, 6	1 : 1 : 1	MT4204-ND◆	5.15	4.12	3.30	G503
0.05	5.2	5.6	1, 2	3, 4	5, 6	1 : 1 : 1	MT4205-ND	3.45	2.76	2.21	G504
5.00	25.0	16.0	1, 2	3, 4	5, 6	2 : 1 : 1	MT4210-ND◆	8.40	6.72	5.38	G505
1.60	16.0	11.0	1, 2	3, 4	5, 6	2 : 1 : 1	MT4211-ND◆	7.15	5.72	4.58	G506
0.40	8.5	5.6	1, 2	3, 4	5, 6	2 : 1 : 1	MT4212-ND◆	5.48	4.38	3.51	G507
2.00	16.0	8.2	1, 3ct, 5	2, 4ct, 6	—	1ct : 1ct	MT4207-ND◆	5.28	4.22	3.38	G508
0.50	8.5	5.3	1, 3ct, 5	2, 4ct, 6	—	1ct : 1ct	MT4208-ND◆	5.13	4.10	3.28	G509
2.00	16.0	11.0	1, 3ct, 5	2, 4ct, 6	—	2ct : 1ct	MT4213-ND◆	5.50	4.40	3.52	G512
1.20	10.0	5.3	1, 2	3, 4	5, 6	1 : 1 : 1	MT4206-ND◆	5.58	4.46	3.57	G513
0.20	5.0	3.2	1, 3ct, 5	2, 4ct, 6	—	2ct : 1ct	MT4214-ND	5.23	4.18	3.35	G515
0.50	8.5	5.6	1, 2	3, 4	—	1 : 1.3	MT4209-ND	12.55	10.04	8.04	G516

◆ ***RoHS Compliant***

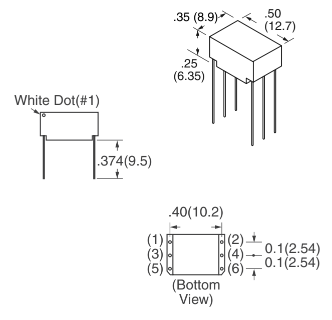

Wall Mount Transformers 2.1mm I.D. x 5.5mm O.D. Female/Right Angle Connector

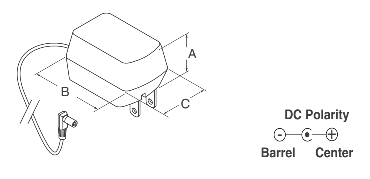

Specifications: • **Cord Length:** 1830mm (6ft) Minimum • **Output Receptacle:** 2.1mm I.D. x 5.5mm O.D. x 12.50mm Barrel length, Right Angle (molded) Female Barrel Connector/Nickel Plated • **Load Regulation:** See detailed spec on web page • **Electrical Specifications:** Input 120VAC, 60Hz • **Operating Temperature:** -10°C ~ 30°C • **Storage Temperature:** -20°C ~ 85°C • **Humidity:** 0 to 95% without condensation • **Withstand Voltage:** 1240Vrms @input to output • **Safety Approval:** UL 1310 (Class 2 Power units) and CSA No. 223 File No. E218172 • CEC: Not Compliant.

Size Code	Dimensions — Inch (mm) A	B	C	Tamura Series
1	1.398 ±0.039 (35.50 ±1.0)	2.50 ±0.039 (63.50 ±1.0)	1.575 ±0.039 (40.00 ±1.0)	212AS
2	1.69 ±0.039 (43.00 ±1.0)	2.756 ±0.039 (70.00 ±1.0)	1.811 ±0.039 (46.00 ±1.0)	318AS
3	1.83 ±0.039 (46.50 ±1.0)	2.835 ±0.039 (72.00 ±1.0)	2.047 ±0.039 (52.00 ±1.0)	420AS
4	2.067 ±0.039 (52.50 ±1.0)	3.58 ±0.039 (91.00 ±1.0)	2.28 ±0.039 (58.00 ±1.0)	830AS
5	2.441 ±0.039 (62.00 ±1.0)	4.055 ±0.039 (103.00 ±1.0)	2.411 ±0.039 (62.00 ±1.0)	835AS

Size Code	Voltage Ratings	Current Rating	Digi-Key Part No.	Price Each 1	10	25	100	Tamura Part No.
AC Output								
3	12VAC	750mA	MT7119-ND◆	7.33	5.86	4.69	3.96	420AS12075
4		1A	MT7166-ND◆	10.00	8.00	6.40	5.40	830AS12100
5		1.5A	MT7120-ND◆	12.58	10.06	8.05	6.80	835AS12150
1	16VAC	100mA	MT7121-ND	5.05	4.04	3.24	2.73	212AS16010
2		300mA	MT7122-ND	6.08	4.86	3.89	3.29	318AS16030
1	20VAC	75mA	MT7125-ND	5.05	4.04	3.24	2.73	212AS20007
2		225mA	MT7126-ND	6.13	4.90	3.92	3.31	318AS20022
5		900mA	MT7128-ND	12.20	9.76	7.81	6.59	835AS20090
5	24VAC	750mA	MT7132-ND◆	12.20	9.76	7.81	6.59	835AS24075

Size Code	Voltage Rating	Current Rating	Digi-Key Part No.	Price Each 1	10	25	100	Tamura Part No.
DC Output								
1	4.5VDC	250mA	MT7135-ND	5.15	4.12	3.30	2.79	212AS04025
1	6VDC	200mA	MT7138-ND◆	5.15	4.12	3.30	2.79	212AS06020
1	9VDC	125mA	MT7141-ND	5.13	4.10	3.28	2.77	212AS09012
3		600mA	MT7143-ND◆	8.18	6.54	5.24	4.42	420AS09060
4		1A	MT7164-ND◆	10.65	8.52	6.82	5.76	830AS09100
3	12VDC	500mA	MT7147-ND◆	7.88	6.30	5.04	4.26	420AS12050
4		800mA	MT7165-ND◆	10.65	8.52	6.82	5.76	830AS12080
5		1A	MT7148-ND◆	13.38	10.70	8.56	7.23	835AS12100
2	15VDC	250mA	MT7150-ND◆	6.63	5.30	4.24	3.58	318AS15025
4		700mA	MT7167-ND◆	10.73	8.58	6.87	5.80	830AS15070
1	18VDC	60mA	MT7153-ND	5.10	4.08	3.27	2.76	212AS18006
2	24VDC	150mA	MT7158-ND◆	6.53	5.22	4.18	3.53	318AS24015

Note: Output voltage shown is at full load current. ◆ ***RoHS Compliant***

A TECHNITROL COMPANY

Encapsulated Power Transformers

Encapsulated transformers have added advantages over non-encapsulated transformers. Reduced winding temperature differential due to heat transfer capability of the epoxy. Have a greater VA to Volume ratio which results in cooler and/or smaller transformers. Increased insulation reliability due to use of epoxy in place of tape/paper insulation. Encapsulation also increases shock/vibration and humidity/moisture resistance of the part.

Electrical Parameters: • Temperature: 70°C • Short Circuit Proof (unless otherwise noted) • Hi-Pot tested: 4KV primary to secondary • Frequency: 50/60Hz

Additional Agency Approvals (See chart below)

1	2	3	4	5
VDE	S		EN EC 10	FI

Fig. 1 - Mini Line Series

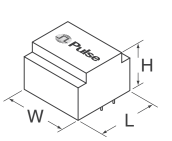

Fig. 2 - Print Line Series

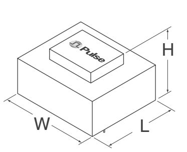

Fig. 3 - Low Profile Series

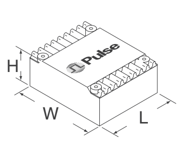

Dual Winding Connection Possibilities

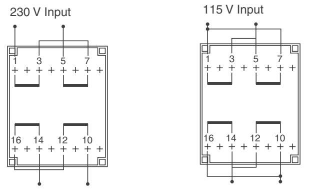

Series Connection Parallel Connection

Fig.	VA	Primary Voltage (VAC)	Secondary Voltage Ratings Parallel Connection (VAC @ mA)	Series Connection (VAC @ mA)	Additional Agency Approvals	Dimensions Inches (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	25	Pulse Part No.
Single Primary / Single Secondary													
1	0.08	115	6 @ 13.30		2	0.87 (22)	0.90 (23)	0.472 (12)	567-1000-ND	3.09	2.27	2.06	BV020-5470.0
1	0.35		6 @ 58.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1004-ND	2.75	1.95	1.75	BV020-5411.0
1	0.50		6 @ 83.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1013-ND	3.56	2.58	2.31	BV020-5370.0
2	1		9 @ 111		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.87 (22)	567-1025-5-ND	2.74	2.21	1.96	BV030-7221.0
2	1.5		9 @ 166		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1030-5-ND	2.97	2.39	2.12	BV030-7151.0
2	2.3	115	9 @ 256		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1035-5-ND*	3.17	2.32	2.12	BV030-7329.0
2	2.8		9 @ 311		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.34 (34)	567-1040-5-ND*	3.35	2.46	2.24	BV030-7597.0
1	0.35		12 @ 29.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1005-ND	2.75	1.95	1.75	BV020-5413.0
1	0.50		12 @ 42.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1014-ND	3.56	2.58	2.31	BV020-5372.0
2	1.2		12 @ 100		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1028-5-ND	2.94	2.37	2.10	BV030-7258.0
2	1.5	115	12 @ 125		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1031-5-ND	2.97	2.39	2.12	BV030-7136.0
1	0.35		24 @ 14.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1006-ND	2.75	1.95	1.75	BV020-5416.0
1	0.08	230	6 @ 13.30		2	0.87 (22)	0.90 (23)	0.472 (12)	567-1002-ND	4.16	3.04	2.77	BV020-5480.0
1	0.35		6 @ 58.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1010-ND	3.66	2.60	2.33	BV020-5423.0
1	0.50		6 @ 83.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1019-ND	4.05	2.93	2.63	BV020-5382.0
2	1		9 @ 111		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.87 (22)	567-1027-5-ND	2.77	2.23	1.98	BV030-7233.0
2	1.5		9 @ 166		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1032-5-ND	2.88	2.32	2.06	BV030-7162.0
2	2	230	9 @ 222		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.06 (27)	567-1034-5-ND*	3.08	2.19	1.96	BV030-7305.0
2	2.8		9 @ 311		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.34 (34)	567-1042-5-ND*	3.90	2.85	2.60	BV030-7585.0
1	0.08		12 @ 6.67		2	0.87 (22)	0.90 (23)	0.472 (12)	567-1003-ND	4.16	3.04	2.77	BV020-5482.0
1	0.35		12 @ 29.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1011-ND	3.66	2.60	2.33	BV020-5425.0
1	0.50	230	12 @ 42.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1020-ND	4.05	2.93	2.63	BV020-5384.0
2	1		12 @ 84		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.87 (22)	567-1026-5-ND	2.77	2.23	1.98	BV030-7234.0
2	1.2		12 @ 100		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1029-5-ND	3.05	2.46	2.18	BV030-7270.0
2	2.3		12 @ 192		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1036-5-ND*	2.99	2.19	1.99	BV030-7342.0
2	5		18 @ 278		1, 2, 3, 4, 5	1.79 (45.5)	1.52 (38.5)	1.26 (32)	567-1044-ND*	5.11	3.84	3.63	BV042-5199.0
1	0.35	230	24 @ 14.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1012-ND	3.66	2.60	2.33	BV020-5428.0
2	2.3		24 @ 96		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1037-5-ND*	2.99	2.19	1.99	BV030-7345.0
Single Primary / Dual Secondary													
1	0.35	115	6 @ 58.0	12 @ 29.0	1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1007-ND	2.60	1.90	1.73	BV020-5417.0
	0.50		6 @ 84.0	12 @ 42.0	1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1016-ND	3.43	2.51	2.29	BV020-5376.0
1	0.50	230	6 @ 84.0	12 @ 42.0	1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1022-ND	3.90	2.85	2.60	BV020-5388.0
2	2.3		9 @ 256	18 @ 128	1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1039-5-ND*	3.07	2.25	2.05	BV030-7347.0
1	0.50		12 @ 42.0	24 @ 21.0	1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1023-ND	4.16	3.04	2.77	BV020-5390.0
1	0.50		24 @ 20.0	48 @ 10.0	—	0.87 (22)	0.90 (23)	0.75 (19)	567-1024-ND	4.55	3.33	3.03	BV020-5393.0
Dual Primary / Dual Secondary													
3	10	115/230	12 @ 832	24 @ 416	1, 2, 3, 4, 5	1.73 (44)	2.09 (53)	1.10 (28)	567-1049-ND*†	12.71	9.78	9.21	BV030-7079.0
	30		12 @ 2.5A	24 @ 1.25A	1, 2, 3, 4, 5	2.24 (57)	2.68 (68)	1.38 (35)	567-1054-ND*†	21.25	17.21	15.69	BV039-5308.0
	30		15 @ 2A	30 @ 1A	1, 2, 3, 4, 5	2.24 (57)	2.68 (68)	1.38 (35)	567-1053-ND*†	21.25	17.21	15.69	BV039-5311.0

* Not Short Circuit Proof † Temperature rating is 40°C

AMVECO
TOROIDAL POWER PRODUCTS

"Mini" Toroidal Transformer

UL File #E122978

Wire Leaded 115/230VAC, 50/60 Hz Dual Primary

Lower strayfield, higher efficiency, reduced "standby" current and reduced weight.

• Safety standard certification (UL 506) • UL certifications to 40°C (1.6VA-25VA) • Hipot testing at 4000V between primary and secondary

Ambient operating temperature: 60°C maximum. Insulation system recognized for Class A (105°C) and meets all requirements of Class E (125°C).

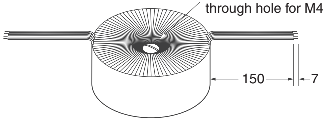
Epoxy potted center with through hole for M4 Bolt

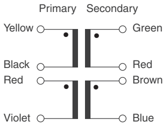

Power VA	Dimensions OD x ID x H mm	Weight Total g	Reg. ΔV/Sec %	Δt °C	Eff. %	No Load mA	230V Fuse* mA	Max. Secondary Range				
								VA	Reg. ΔV/Sec %	Δt °C	Eff. %	230V Fuse* mA
1.6	37.5 x 7.0 x 17.0	71	29	10	77	1	32	2.0	60	30	60	32
3.2	42.0 x 7.0 x 17.5	89	41	20	70	1.5	32	3.7	80	40	50	50
5.0	47.0 x 6.0 x 18.0	115	45	29	70	2	50	5.5	80	40	50	63
7.0	47.0 x 6.0 x 21.5	145	34	25	74	3	63	7.5	70	40	60	80
10.0	53.5 x 6.8 x 23.5	216	20	24	82	3	80	12	60	45	60	100
15.0	57.5 x 7.0 x 24.0	262	23	27	81	4	100	16	60	40	65	125
25.0	58.0 x 13.8 x 34.5	388	19	28	84	5	160	—	—	—	—	—
35.0	72.0 x 17.0 x 33.5	453	17.7	31	85	7	200	—	—	—	—	—
50.0	78.0 x 22.5 x 35.0	670	15.5	30	86	8	315	—	—	—	—	—

* Recommend Slo-Blo. Double the fuse current for 120 volt operation.

Power VA	Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	Amveco Part No.
1.6	7 @ .228	14 @ .114	TE62000-ND◆	18.34	16.30	14.27	13.04	62000
	9 @ .178	18 @ .089	TE62001-ND◆	18.34	16.30	14.27	13.04	62001
	12 @ .134	24 @ .067	TE62002-ND◆	18.34	16.30	14.27	13.04	62002
	15 @ .106	30 @ .053	TE62003-ND	18.34	16.30	14.27	13.04	62003
	18 @ .088	36 @ .044	TE62004-ND	18.34	16.30	14.27	13.04	62004
	22 @ .072	44 @ .036	TE62005-ND	18.34	16.30	14.27	13.04	62005
3.2	7 @ .458	14 @ .229	TE62010-ND◆	18.16	16.14	14.13	12.92	62010
	9 @ .356	18 @ .178	TE62011-ND	18.16	16.14	14.13	12.92	62011
	12 @ .266	24 @ .133	TE62012-ND	18.16	16.14	14.13	12.92	62012
	15 @ .214	30 @ .107	TE62013-ND	18.16	16.14	14.13	12.92	62013
	18 @ .178	36 @ .089	TE62014-ND◆	18.16	16.14	14.13	12.92	62014
	22 @ .146	44 @ .073	TE62015-ND	18.16	16.14	14.13	12.92	62015
5.0	7 @ .714	14 @ .357	TE62020-ND◆	18.56	16.50	14.44	13.20	62020
	9 @ .556	18 @ .278	TE62021-ND◆	18.56	16.50	14.44	13.20	62021
	12 @ .416	24 @ .208	TE62022-ND◆	18.56	16.50	14.44	13.20	62022
	15 @ .334	30 @ .167	TE62023-ND	18.56	16.50	14.44	13.20	62023
	18 @ .278	36 @ .139	TE62024-ND◆	18.56	16.50	14.44	13.20	62024
	22 @ .228	44 @ .114	TE62025-ND	18.56	16.50	14.44	13.20	62025
7.0	7 @ 1.0	14 @ .500	TE62030-ND	19.31	17.16	15.02	13.73	62030
	9 @ .778	18 @ .389	TE62031-ND◆	19.31	17.16	15.02	13.73	62031
	12 @ .584	24 @ .292	TE62032-ND◆	19.31	17.16	15.02	13.73	62032
	15 @ .466	30 @ .233	TE62033-ND◆	19.31	17.16	15.02	13.73	62033
	18 @ .388	36 @ .194	TE62034-ND◆	19.31	17.16	15.02	13.73	62034
	22 @ .318	44 @ .159	TE62035-ND	19.31	17.16	15.02	13.73	62035
10.0	7 @ 1.428	14 @ .714	TE62040-ND◆	21.85	19.42	17.00	15.54	62040
	9 @ 1.112	18 @ .556	TE62041-ND◆	21.85	19.42	17.00	15.54	62041
	12 @ .834	24 @ .417	TE62042-ND◆	21.85	19.42	17.00	15.54	62042
	15 @ .666	30 @ .333	TE62043-ND◆	21.85	19.42	17.00	15.54	62043
	18 @ .556	36 @ .278	TE62044-ND	21.85	19.42	17.00	15.54	62044
	22 @ .454	44 @ .227	TE62045-ND	21.85	19.42	17.00	15.54	62045
15.0	7 @ 2.142	14 @ 1.071	TE62050-ND◆	23.40	20.80	18.20	16.64	62050
	9 @ 1.666	18 @ .833	TE62051-ND◆	23.40	20.80	18.20	16.64	62051
	12 @ 1.250	24 @ .625	TE62052-ND◆	23.40	20.80	18.20	16.64	62052
	15 @ 1.000	30 @ .500	TE62053-ND◆	23.40	20.80	18.20	16.64	62053
	18 @ .834	36 @ .417	TE62054-ND◆	23.40	20.80	18.20	16.64	62054
	22 @ .682	44 @ .341	TE62055-ND	23.40	20.80	18.20	16.64	62055
25.0	7 @ 3.570	14 @ 1.785	TE62060-ND	24.98	22.20	19.43	17.76	62060
	9 @ 2.754	18 @ 1.377	TE62061-ND	24.98	22.20	19.43	17.76	62061
	12 @ 2.082	24 @ 1.041	TE62062-ND	24.98	22.20	19.43	17.76	62062
	15 @ 1.664	30 @ .832	TE62063-ND◆	24.98	22.20	19.43	17.76	62063
	18 @ 1.388	36 @ .694	TE62064-ND◆	24.98	22.20	19.43	17.76	62064
	22 @ 1.136	44 @ .568	TE62065-ND◆	24.98	22.20	19.43	17.76	62065
35.0	7 @ 5.000	14 @ 2.500	TE62070-ND	28.87	25.66	22.46	20.53	62070
	9 @ 3.888	18 @ 1.944	TE62071-ND	28.87	25.66	22.46	20.53	62071
	12 @ 2.916	24 @ 1.458	TE62072-ND◆	28.87	25.66	22.46	20.53	62072
	15 @ 2.332	30 @ 1.166	TE62073-ND◆	28.87	25.66	22.46	20.53	62073
	18 @ 1.944	36 @ .972	TE62074-ND	28.87	25.66	22.46	20.53	62074
	22 @ 1.590	44 @ .795	TE62075-ND◆	31.73	28.20	24.68	22.56	62075
50.0	7 @ 7.142	14 @ 3.571	TE62080-ND	34.94	31.06	27.18	24.85	62080
	9 @ 5.554	18 @ 2.777	TE62081-ND◆	34.94	31.06	27.18	24.85	62081
	12 @ 4.166	24 @ 2.083	TE62082-ND◆	34.94	31.06	27.18	24.85	62082
	15 @ 3.332	30 @ 1.666	TE62083-ND◆	34.94	31.06	27.18	24.85	62083
	18 @ 2.776	36 @ 1.388	TE62084-ND◆	34.94	31.06	27.18	24.85	62084
	22 @ 2.272	44 @ 1.136	TE62085-ND◆	34.94	31.06	27.18	24.85	62085

Note: *To obtain output voltage, load current must be met.* ◆ ***RoHS Compliant***

Toroidal Transformer

PC Mount, Low Profile 115/230V, 50/60 Hz Dual Primary

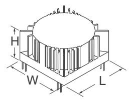

Low Magnetic strayfield emissions, higher efficiency, reduced "standby" current, reduced weight, fully encapsulated durable body formation.

• Safety standard certification (UL 506, UL 1950, UL File E122978, E138299) • VDE 0805, IEC 950, EN 60950 • UL and VDE certifications to 40°C (1.6VA-25VA) • Hipot testing at 4000V between primary and secondary (VDE0550) • Maximum ambient temperature of 60°C for 1.6VA-25VA, 40°C for 35VA and 50VA models

Recognized for insulation Class A (105°C) and meets all requirements of Class E (125°C).

1.6-25VA - Blind insert M4 X 6 threads,
1.0 x 0.5mm pins
35-50VA - M5 through hole,
1.35mm diameter pins

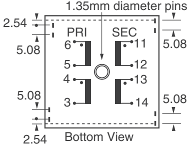

Bottom View

Power VA	Dimensions (Pin Length 5mm) L x W x H mm	Pin Pattern XY mm	Weight Total g	Reg. ΔV/Sec %	Δt °C	Eff. %	Excitation Current mA	230V Fuse* mA	Max. Secondary Range				
									VA	Reg. ΔV/Sec %	Δt °C	Eff. %	230V Fuse* mA
1.6	39.6 x 39.6 x 18.5	35.56	82	29	10	77	1.0	32	2.0	60	30	60	32
3.2	44.7 x 44.7 x 19.5	40.64	110	43	20	70	1.5	32	3.7	80	40	50	50
5.0	49.7 x 49.7 x 19.5	45.72	144	40	29	68	2.0	50	5.5	80	40	50	63
7.0	49.7 x 49.7 x 23.1	45.72	174	34	25	74	3.0	63	7.5	70	40	60	80
10.0	55.0 x 55.0 x 26.0	50.80	252	20	24	82	3.0	80	12.0	60	45	60	100
15.0	60.0 x 60.0 x 26.3	55.88	304	23	27	80	4.0	100	16.0	60	40	65	125
25.0	60.0 x 60.0 x 37.5	55.88	435	19	28	83	5.0	160	—	—	—	—	—
35.0	72.0 x 72.0 x 37.5	66.04	525	17.7	31	81	7.0	200	—	—	—	—	—
50.0	82.4 x 82.4 x 37.5	76.02	685	15.5	30	86	8.0	315	—	—	—	—	—

* Recommend Slo-Blo. Double the fuse current for 120 volt operation.

Power VA	Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	Amveco Part No.
1.6	7 @ .228	14 @ .114	TE70000-ND◆	13.68	12.16	10.64	9.73	70000
	9 @ .178	18 @ .089	TE70001-ND◆	12.62	11.22	9.82	8.98	70001
	12 @ .134	24 @ .067	TE70002-ND◆	12.02	10.68	9.35	8.55	70002
	15 @ .106	30 @ .053	TE70003-ND◆	13.68	12.16	10.64	9.73	70003
	18 @ .088	36 @ .044	TE70004-ND	12.62	11.22	9.82	8.98	70004
	22 @ .072	44 @ .036	TE70005-ND◆	12.02	10.68	9.35	8.55	70005
3.2	7 @ .458	14 @ .229	TE70010-ND◆	14.60	12.98	11.36	10.39	70010
	9 @ .356	18 @ .178	TE70011-ND	13.66	12.14	10.63	9.72	70011
	12 @ .266	24 @ .133	TE70012-ND	13.43	11.94	10.45	9.56	70012
	15 @ .214	30 @ .107	TE70013-ND	14.78	13.14	11.50	10.52	70013
	18 @ .178	36 @ .089	TE70014-ND◆	13.43	11.94	10.45	9.56	70014
	22 @ .146	44 @ .073	TE70015-ND◆	13.43	11.94	10.45	9.56	70015
5.0	7 @ .714	14 @ .357	TE70020-ND◆	13.93	12.38	10.84	9.91	70020
	9 @ .556	18 @ .278	TE70021-ND◆	13.93	12.38	10.84	9.91	70021
	12 @ .416	24 @ .208	TE70022-ND	13.93	12.38	10.84	9.91	70022
	15 @ .334	30 @ .167	TE70023-ND	15.28	13.58	11.89	10.87	70023
	18 @ .278	36 @ .139	TE70024-ND	13.93	12.38	10.84	9.91	70024
	22 @ .228	44 @ .114	TE70025-ND	13.93	12.38	10.84	9.91	70025
7.0	7 @ 1.0	14 @ .500	TE70030-ND◆	14.83	13.18	11.54	10.55	70030
	9 @ .778	18 @ .389	TE70031-ND	14.11	12.54	10.98	10.04	70031
	12 @ .584	24 @ .292	TE70032-ND◆	14.83	13.18	11.54	10.55	70032
	15 @ .466	30 @ .233	TE70033-ND◆	14.83	13.18	11.54	10.55	70033
	18 @ .388	36 @ .194	TE70034-ND◆	14.11	12.54	10.98	10.04	70034
	22 @ .318	44 @ .159	TE70035-ND	14.83	13.18	11.54	10.55	70035
10.0	7 @ 1.428	14 @ .714	TE70040-ND◆	17.42	15.48	13.55	12.39	70040
	9 @ 1.112	18 @ .556	TE70041-ND◆	16.58	14.74	12.90	11.80	70041
	12 @ .834	24 @ .417	TE70042-ND◆	16.58	14.74	12.90	11.80	70042
	15 @ .666	30 @ .333	TE70043-ND◆	17.42	15.48	13.55	12.39	70043
	18 @ .556	36 @ .278	TE70044-ND◆	16.58	14.74	12.90	11.80	70044
	22 @ .454	44 @ .227	TE70045-ND	17.42	15.48	13.55	12.39	70045
15.0	7 @ 2.142	14 @ 1.071	TE70050-ND◆	20.00	17.78	15.56	14.23	70050
	9 @ 1.666	18 @ .833	TE70051-ND◆	19.06	16.94	14.83	13.56	70051
	12 @ 1.250	24 @ .625	TE70052-ND◆	17.42	15.48	13.55	12.39	70052
	15 @ 1.000	30 @ .500	TE70053-ND◆	18.16	16.14	14.13	12.92	70053
	18 @ .834	36 @ .417	TE70054-ND	18.16	16.14	14.13	12.92	70054
	22 @ .682	44 @ .341	TE70055-ND	19.06	16.94	14.83	13.56	70055
25.0	7 @ 3.570	14 @ 1.785	TE70060-ND◆	22.14	19.68	17.22	15.75	70060
	9 @ 2.754	18 @ 1.377	TE70061-ND◆	22.14	19.68	17.22	15.75	70061
	12 @ 2.082	24 @ 1.041	TE70062-ND	21.13	18.78	16.44	15.03	70062
	15 @ 1.664	30 @ .832	TE70063-ND◆	21.13	18.78	16.44	15.03	70063
	18 @ 1.388	36 @ .694	TE70064-ND◆	22.14	19.68	17.22	15.75	70064
	22 @ 1.136	44 @ .568	TE70065-ND◆	22.14	19.68	17.22	15.75	70065
35.0	7 @ 5.000	14 @ 2.500	TE70070-ND◆	29.09	25.86	22.63	20.69	70070
	9 @ 3.888	18 @ 1.944	TE70071-ND	29.09	25.86	22.63	20.69	70071
	12 @ 2.916	24 @ 1.458	TE70072-ND	29.09	25.86	22.63	20.69	70072
	15 @ 2.332	30 @ 1.166	TE70073-ND◆	29.09	25.86	22.63	20.69	70073
	18 @ 1.944	36 @ .972	TE70074-ND	29.09	25.86	22.63	20.69	70074
	22 @ 1.590	44 @ .795	TE70075-ND◆	29.09	25.86	22.63	20.69	70075
50.0	7 @ 7.142	14 @ 3.571	TE70080-ND	36.74	32.66	28.58	26.13	70080
	9 @ 5.554	18 @ 2.777	TE70081-ND◆	38.00	33.78	29.56	27.03	70081
	12 @ 4.166	24 @ 2.083	TE70082-ND	36.74	32.66	28.58	26.13	70082
	15 @ 3.332	30 @ 1.666	TE70083-ND◆	36.74	32.66	28.58	26.13	70083
	18 @ 2.776	36 @ 1.388	TE70084-ND	36.74	32.66	28.58	26.13	70084
	22 @ 2.272	44 @ 1.136	TE70085-ND	36.74	32.66	28.58	26.13	70085

Note: *To obtain output voltage, load current must be met.* ◆ ***RoHS Compliant***

AMVECO
TOROIDAL POWER PRODUCTS

Medical Grade Power and Isolation Transformers

Nominal Power VA	Secondary Current @ 120VAC (A)	Secondary Current @ 240VAC (A)	Digi-Key Part No.	Price Each 1	10	25	50	Amveco Part No.
230	1.92	0.96	TE0230DS-ND	142.72	119.63	117.53	111.24	MT0230DS
400	3.33	1.67	TE0400DS-ND	166.82	139.84	134.93	130.03	MT0400DS
600	5.00	2.50	TE0600DS-ND	184.49	159.33	153.74	148.15	MT0600DS
750	6.25	3.12	TE0750DS-ND	179.49	155.02	149.58	144.14	MT0750DS
1000	8.33	4.16	TE1000DS-ND	203.64	174.91	168.66	162.41	MT1000DS
1500	12.5	6.25	TE1500DS-ND	289.41	253.24	239.67	230.63	MT1500DS
3000	25.0	12.5	TE3000DS-ND	369.02	327.36	309.51	297.60	MT3000DS

Note: *Multiple primaries must be connected in series or parallel. If assistance is needed, please contact Digi-Key Technical department for additional hook-up information.*

Features:
• Lifetime warranty • Quad Primaries: 100V, 120V, 220V, 240V ~ 50/60Hz • Mounting hardware: metal disk, (2) rubber gaskets (100VA - 750VA); potted center, (1) foam gasket (1000VA ~ 3000VA) • UL 544, UL 2601, IEC 601, CSA 22.2 No. 601.1 • 10" color coded wire leads

Nominal Power (VA)	Diameter x Thickness (In.)	Weight (lb.)
230	4.6 x 2.4	5.2
400	5.5 x 2.5	8
600	6.2 x 3.1	13
750	6.6 x 3.1	14
1000	6.9 x 3.5	20
1500	8.2 x 4.0	28
3000	10.0 x 4.3	47

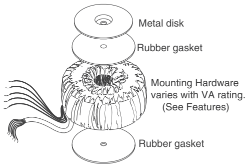

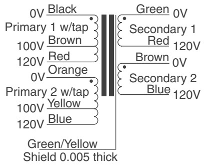

International Toroidal Power Transformers

Features:
• Lifetime warranty • 2 x 117V/50-60Hz primaries • Class A (105°C) • Disk mounting hardware: metal disk, (2) rubber gaskets • 10" color coded wire leads

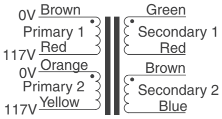

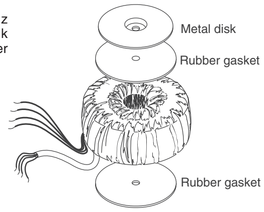

Nominal Power VA	Diameter x Thickness (In.)	Weight (lb.)	Mounting Hole Size
95	3.9 x 1.5	2.2	1/4"
140	3.9 x 1.9	3	1/4"
240	4.5 x 2.1	4.8	1/4"
300	4.6 x 2.6	5.7	1/4"
460	5.4 x 2.6	7.9	1/4"
625	5.5 x 3.2	9.5	1/4"
800	6.4 x 2.7	12.3	5/16"
990	6.5 x 3.0	15.2	5/16"

Nominal Power VA	Secondary Ratings Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	Amveco Part No.
95	9 @ 10.6	18 @ 5.30	TE50952009-ND◆	68.62	57.18	54.33	53.37	AA50952-009
	12 @ 7.80	24 @ 3.90	TE50952012-ND◆	71.28	59.40	56.43	55.44	AA50952-012
140	18 @ 7.80	36 @ 3.90	TE51402018-ND	71.50	59.58	56.61	55.61	AA51402-018
	24 @ 5.80	48 @ 2.90	TE51402024-ND◆	75.64	63.03	59.88	58.83	AA51402-024
	117 @ 1.20	234 @ 0.60	TE51402117-ND	73.62	63.11	58.90	56.80	AA51402-117
240	15 @ 16.00	30 @ 8.00	TE52402015-ND◆	86.63	74.25	69.30	66.83	AA52402-015
300	15 @ 20.00	30 @ 10.00	TE53002015-ND	93.75	80.36	75.00	73.66	AA53002-015
	24 @ 12.40	48 @ 6.20	TE53002024-ND◆	93.54	80.18	74.83	73.50	AA53002-024
	117 @ 2.60	234 @ 1.30	TE53002117-ND	95.15	81.56	78.84	73.40	AA53002-117
460	30 @ 15.40	60 @ 7.70	TE54602030-ND	122.61	102.77	99.22	95.68	AA54602-030
	117 @ 4.00	234 @ 2.00	TE54602117-ND	126.05	105.65	102.01	98.37	AA54602-117
625	24 @ 26.00	48 @ 13.00	TE56252024-ND◆	136.91	114.76	110.80	106.84	AA56252-024
	30 @ 20.80	60 @ 10.40	TE56252030-ND◆	142.95	119.82	115.69	111.56	AA56252-030
	117 @ 5.40	234 @ 2.70	TE56252117-ND◆	212.62	178.21	172.06	165.92	AA56252-117
800	24 @ 33.40	48 @ 16.70	TE58002024-ND	165.95	141.55	136.67	129.35	AA58002-024
990	24 @ 41.20	48 @ 20.60	TE59902024-ND◆	183.26	156.31	150.92	142.84	AA59902-024
	55 @ 18.00	110 @ 9.00	TE59902055-ND◆	178.67	152.40	147.14	139.26	AA59902-055
	117 @ 8.40	234 @ 4.20	TE59902117-ND◆	156.94	131.56	129.25	122.33	AA59902-117

◆ ***RoHS Compliant***

HAMMOND MANUFACTURING™

Filament and Low Voltage Rectifier Use Transformers

Schematic Drawing for "Open" and "High Current-Open Frame" styles.

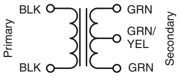

Fig. 1 – Open Style
• Primary 115VAC, 60 Hz • Open style, channel bracket, two hole chassis mount • Minimum 6" (15.24cm) leads • Dual bobbin design - no electrostatic shield required • Class A insulation (105°C) • Hi-Pot test of 2,000V RMS • CSA certified (#LR3902) and UL listed (#E50394)

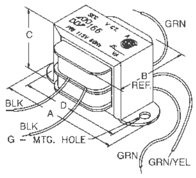

Fig. 2 – High Current - Open Frame
• Primary 115VAC, 60 Hz • Open style, 4 hole frame chassis mount • Minimum 6" (15.24cm) leads • Dual bobbin design - no electrostatic shield required • Class A insulation (105°C) • Hi-Pot test of 2,000V RMS • CSA certified (#LR3902) & UL listed (#E50394)

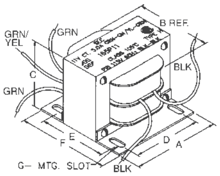

Fig.	Volts† AC	Amps	Dimensions - Inch (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Price Each 1	5	10	25	Hammond Part No.
1	6.3	0.6	2.38 (60.45)	1.38 (35.05)	1.38 (35.05)	2.00 (50.80)	—	—	0.187 (4.75)	HM505-ND◆	13.64	13.13	12.82	12.00	166G6
	6.3	4.0	3.25 (82.55)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM508-ND◆	14.55	14.00	13.68	12.80	166N6
	8.5	2.0	3.25 (82.55)	1.63 (41.40)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM510-ND◆	18.18	17.50	17.10	16.00	166L8
	9.0	0.5	2.38 (60.45)	1.38 (35.05)	1.38 (35.05)	2.00 (50.80)	—	—	0.187 (4.75)	HM511-ND	19.55	18.82	18.38	17.20	166G9
	10.0	1.0	2.81 (71.37)	1.63 (41.40)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM513-ND◆	18.18	17.50	17.10	16.00	166J10
	10.0	2.0	3.25 (82.55)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM514-ND	14.55	14.00	13.68	12.80	166L10
	10.0	3.0	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM515-ND◆	21.82	21.00	20.51	19.20	166M10
	12.6	0.3	2.38 (60.45)	1.38 (35.05)	1.38 (35.05)	2.00 (50.80)	—	—	0.187 (4.75)	HM517-ND◆	13.64	13.13	12.82	12.00	166F12
	12.6	0.5	2.81 (71.37)	1.50 (38.10)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM518-ND◆	20.00	19.25	18.80	17.60	166G12
	12.6	1.0	2.81 (71.37)	1.63 (41.40)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM519-ND◆	18.18	17.50	17.10	16.00	166J12
	12.6	2.5	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM520-ND◆	18.18	17.50	17.10	16.00	166L12
	12.6	4.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM521-ND◆	21.82	21.00	20.51	19.20	166N12
	12.6	6.0	4.03 (102.36)	2.25 (57.15)	2.63 (66.60)	3.56 (90.42)	—	—	0.187 (4.75)	HM522-ND◆	29.09	28.00	27.35	25.60	166Q12
	12.6	8.0	4.50 (114.30)	2.50 (63.50)	2.88 (73.15)	4.00 (101.60)	—	—	0.203 (5.16)	HM523-ND◆	47.27	45.50	44.44	41.60	166R12
2	12.6	20.0	3.75 (95.25)	3.63 (92.20)	3.13 (79.50)	3.13 (79.50)	3.25 (82.55)	4.00 (101.60)	.22 x .56 (5.59 x 14.22)	HM525-ND◆	70.96	68.31	66.71	62.45	165V12
1	14.0	2.0	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM529-ND◆	20.00	19.25	18.80	17.60	166L14
	16.0	2.2	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM533-ND◆	16.36	15.75	15.39	14.40	166L16
	16.0	3.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM534-ND	20.00	19.25	18.80	17.60	166M16
	18.0	1.5	3.25 (82.50)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM535-ND◆	16.36	15.75	15.39	14.40	166K18
	18.0	3.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM536-ND◆	21.82	21.00	20.51	19.20	166M18
	18.0	5.0	4.03 (102.36)	2.50 (63.50)	2.63 (66.80)	3.56 (90.42)	—	—	0.187 (4.75)	HM537-ND	27.27	26.25	25.64	24.00	166P18
	20.0	2.0	3.69 (93.73)	1.88 (47.75)	2.31 (56.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM543-ND◆	20.00	19.25	18.80	17.60	166L20
2	22.0	12.0	4.50 (114.30)	3.88 (98.55)	3.75 (95.25)	3.75 (95.25)	2.75 (69.85)	3.50 (88.90)	.28 x .56 (7.11 x 14.22)	HM544-ND	72.16	69.46	67.84	63.51	165T22
1	24.0	.085	2.06 (52.32)	1.38 (35.05)	1.19 (30.23)	1.75 (44.45)	—	—	0.187 (4.75)	HM546-ND	10.00	9.63	9.40	8.80	166C24
	24.0	2.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM547-ND◆	20.00	19.25	18.80	17.60	166L24
	24.0	4.0	4.50 (114.30)	2.50 (63.50)	2.88 (73.15)	4.00 (101.60)	—	—	0.203 (5.16)	HM548-ND◆	29.09	28.00	27.35	25.60	166N24
	25.0	0.5	2.81 (71.37)	1.63 (41.40)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM552-ND◆	19.09	18.38	17.95	16.80	166G25
	25.0	1.0	3.25 (82.55)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM553-ND◆	14.55	14.00	13.68	12.80	166J25
	25.0	1.5	3.69 (93.73)	1.88 (47.75)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM554-ND◆	25.45	24.50	23.93	22.40	166K25
	25.0	3.0	4.03 (102.36)	2.25 (57.15)	2.63 (66.80)	3.56 (90.42)	—	—	0.187 (4.75)	HM556-ND◆	27.27	26.25	25.64	24.00	166M25
2	25.0	10.0	3.75 (95.25)	3.63 (92.20)	3.13 (79.50)	3.13 (79.50)	3.25 (82.55)	4.00 (101.60)	.22 x .56 (5.59 x 14.22)	HM558-ND◆	68.05	65.51	63.98	59.89	165S25
1	28.0	1.0	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM560-ND◆	20.00	19.25	18.80	17.60	166J28
2	30.0	5.0	3.00 (76.20)	3.25 (82.55)	2.56 (65.02)	2.50 (63.50)	3.25 (82.55)	4.00 (101.60)	.22 x .56 (5.59 x 14.22)	HM561-ND	54.91	52.85	51.62	48.32	165P30
	30.0	10.0	4.50 (114.30)	3.88 (98.55)	3.75 (95.25)	3.75 (95.25)	2.75 (69.85)	3.50 (88.90)	.28 x .56 (7.11 x 14.22)	HM562-ND	74.35	71.56	69.89	65.43	165S30
1	36.0	0.5	3.25 (82.55)	1.63 (41.40)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM566-ND◆	20.00	19.25	18.80	17.60	166G36
	36.0	1.0	3.69 (93.73)	1.88 (47.75)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM567-ND◆	24.55	23.63	23.08	21.60	166J36
	44.0	1.0	3.69 (93.73)	2.00 (50.80)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM568-ND	29.09	28.00	27.35	25.60	166J44
	80.0	0.5	3.69 (93.73)	1.88 (47.75)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM569-ND◆	27.27	26.25	25.64	24.00	166G80

◆ ***RoHS Compliant*** † Center tap voltage is half the voltage shown. All voltage ratings are based on full load current rating shown.

TRIAD MAGNETICS Control Transformer — UL1585, Class 2, Energy Limited

Input Voltage 50/60Hz (VAC)	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
Fig. 1 — 0.250" Quick Connect — RoHS Compliant							
120	237-1239-ND	15.44	13.12	11.58	10.81	9.26	TCT40-01E07AB
120 / 208 / 240	237-1243-ND	15.44	13.12	11.58	10.81	9.26	TCT40-05E07AB
120 / 240	237-1245-ND	15.44	13.12	11.58	10.81	9.26	TCT40-06E07AB
Fig. 2 — 12" (18AWG) Wire Lead							
120	237-1240-ND◆	16.06	13.65	12.04	11.24	9.63	TCT40-01E07K
240	237-1242-ND	16.06	13.65	12.04	11.24	9.63	TCT40-02E07K
120 / 208 / 240	237-1244-ND◆	16.06	13.65	12.04	11.24	9.63	TCT40-05E07K
120 / 240	237-1246-ND◆	16.06	13.65	12.04	11.24	9.63	TCT40-06E07K

◆ ***RoHS Compliant***

Fig. 1

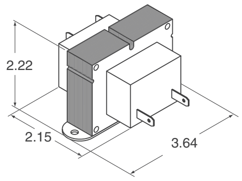

Fig. 2

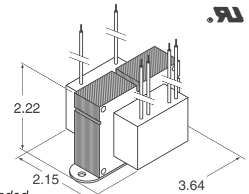

Wire Leaded Version Shown

Description: These control transformers come with a tamper resistant shroud for safety and a steel bracket welded to the bottom of the transformer for ease of mounting. Universal interchangeability with other manufactures. Applications are Industrial Controls and Automation, Consumer Equipment, HVAC Equipment. Since these products are energy limited, no secondary fusing is required.
Electrical Specifications: • Maximum Power: 40VA • Weight boxed unit: 1.5 pounds • Output Voltage: 24VAC @1.67A **Agency Approvals:** UL File: E65390 CSA File: 226495, UL Class B insulation system 130°C

World Series™ Power Transformers — Chassis Mount: Quick-Connect

Triad chassis mount World Series Transformers are designed to meet US and International standards including CSA, IEC, VDC and UL requirements. The transformers consist of a dual bobbin design, insulating shroud and constructed with UL high temperature material.

Specifications:
- Voltage:115/230V, 50/60Hz
- Hi-Pot tested at 4,000 Vrms

Fig. 1

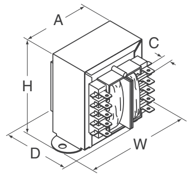

Fig. 2

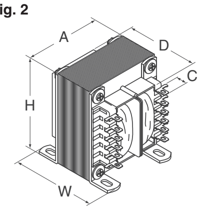

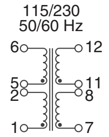

Power Max.	Dimensions – Inches A Width (typ.)	C Contact Overall Length (typ.)	D Depth (typ.)	W Flange Width	H Height (typ.)	Weight (lbs.)
25VA	2.00	0.313	1.938	2.813	2.313	1.25
43VA	2.313	0.313	2.000	3.125	2.688	1.60
80VA	2.50	0.313	2.313	2.78	3.00	2.80
130VA	2.813	0.375	2.813	3.00	3.375	4.10
175VA	3.125	0.375	2.938	3.00	3.75	5.50

Fig.	VA (Size)	Parallel VAC @ A	Series VCT* @ A	Contact Size (Nom.)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
1	25	5 @ 5.0	10 @ 2.5	0.187"	237-1251-ND	15.41	11.24	9.99	9.05	VPS10-2500
1	43	5 @ 8.6	10 @ 4.3	0.187"	237-1252-ND	19.65	14.33	12.74	11.55	VPS10-4300
2	80	5 @ 16.0	10 @ 8.0	0.187"	237-1253-ND◆	26.84	19.57	17.40	15.77	VPS10-8000
2	130	5 @ 26.0	10 @ 13.0	0.250"	237-1249-ND	35.53	25.91	23.03	20.87	VPS10-13000
2	175	5 @ 35.0	10 @ 17.5	0.250"	237-1250-ND	40.79	29.74	26.44	23.96	VPS10-17500
1	25	6.3 @ 4.0	12.6 @ 2.0	0.187"	237-1256-ND◆	15.41	11.24	9.99	9.05	VPS12-2000
1	43	6.3 @ 6.8	12.6 @ 3.4	0.187"	237-1257-ND◆	19.65	14.33	12.74	11.55	VPS12-3400
2	80	6.3 @ 12.6	12.6 @ 6.3	0.187"	237-1258-ND	26.84	19.57	17.40	15.77	VPS12-6300
2	130	6.3 @ 20.6	12.6 @ 10.3	0.250"	237-1254-ND	35.53	25.91	23.03	20.87	VPS12-10300
2	175	6.3 @ 28.0	12.6 @ 14.0	0.250"	237-1255-ND	40.79	29.74	26.44	23.96	VPS12-14000
1	25	8 @ 3.2	16 @ 1.6	0.187"	237-1260-ND◆	15.38	11.22	9.97	9.04	VPS16-1600
1	43	8 @ 5.4	16 @ 2.7	0.187"	237-1261-ND	19.65	14.33	12.74	11.55	VPS16-2700
2	80	8 @ 10.0	16 @ 5.0	0.187"	237-1262-ND	26.84	19.57	17.40	15.77	VPS16-5000
2	130	8 @ 16.2	16 @ 8.1	0.250"	237-1263-ND	35.53	25.91	23.03	20.87	VPS16-8100
2	175	8 @ 22.0	16 @ 11.0	0.250"	237-1259-ND◆	40.79	29.74	26.44	23.96	VPS16-11000
1	25	10 @ 2.5	20 @ 1.25	0.187"	237-1264-ND◆	15.41	11.24	9.99	9.05	VPS20-1250
1	43	10 @ 4.4	20 @ 2.2	0.187"	237-1265-ND	19.66	14.33	12.74	11.55	VPS20-2200
2	80	10 @ 8.0	20 @ 4.0	0.187"	237-1266-ND◆	26.84	19.57	17.40	15.77	VPS20-4000
2	130	10 @ 13.0	20 @ 6.5	0.250"	237-1267-ND	35.53	25.91	23.03	20.87	VPS20-6500
2	175	10 @ 17.6	20 @ 8.8	0.250"	237-1268-ND◆	40.79	29.74	26.44	23.96	VPS20-8800

Fig.	VA (Size)	Parallel VAC @ A	Series VCT* @ A	Contact Size (Nom.)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
1	25	12 @ 2.0	24 @ 1.0	0.187"	237-1274-ND◆	15.41	11.24	9.99	9.05	VPS24-1000
1	43	12 @ 3.6	24 @ 1.8	0.187"	237-1275-ND◆	19.65	14.33	12.74	11.55	VPS24-1800
2	80	12 @ 6.6	24 @ 3.3	0.187"	237-1276-ND◆	26.84	19.57	17.40	15.77	VPS24-3300
2	130	12 @ 10.8	24 @ 5.4	0.250"	237-1277-ND◆	35.53	25.91	23.03	20.87	VPS24-5400
2	175	12 @ 14.6	24 @ 7.3	0.250"	237-1278-ND	40.79	29.74	26.44	23.96	VPS24-7300
1	25	14 @ 1.8	28 @ 0.9	0.187"	237-1283-ND	15.41	11.24	9.99	9.05	VPS28-900
1	43	14 @ 3.0	28 @ 1.5	0.187"	237-1279-ND	19.65	14.33	12.74	11.55	VPS28-1500
2	80	14 @ 5.6	28 @ 2.8	0.187"	237-1280-ND	26.84	19.57	17.40	15.77	VPS28-2800
2	130	14 @ 9.2	28 @ 4.6	0.250"	237-1281-ND◆	35.53	25.91	23.03	20.87	VPS28-4600
2	175	14 @ 12.5	28 @ 6.25	0.250"	237-1282-ND◆	40.79	29.74	26.44	23.96	VPS28-6250
1	25	18 @ 1.4	36 @ 0.7	0.187"	237-1288-ND◆	15.41	11.24	9.99	9.05	VPS36-700
1	43	18 @ 2.4	36 @ 1.2	0.187"	237-1284-ND◆	19.65	14.33	12.74	11.55	VPS36-1200
2	80	18 @ 4.4	36 @ 2.2	0.187"	237-1285-ND◆	26.84	19.57	17.40	15.77	VPS36-2200
2	130	18 @ 7.2	36 @ 3.6	0.250"	237-1286-ND◆	35.53	25.91	23.03	20.87	VPS36-3600
2	175	18 @ 9.6	36 @ 4.8	0.250"	237-1287-ND	40.79	29.74	26.44	23.96	VPS36-4800
1	25	115 @ 0.22	230 @ 0.11	0.187"	237-1269-ND◆	15.41	11.24	9.99	9.05	VPS230-110
1	43	115 @ 0.38	230 @ 0.19	0.187"	237-1270-ND◆	19.65	14.33	12.74	11.55	VPS230-190
2	80	115 @ 0.7	230 @ 0.35	0.187"	237-1271-ND◆	26.84	19.57	17.40	15.77	VPS230-350
2	130	115 @ 1.14	230 @ 0.57	0.250"	237-1272-ND◆	35.53	25.91	23.03	20.87	VPS230-570
2	175	115 @ 1.52	230 @ 0.76	0.250"	237-1273-ND◆	40.79	29.74	26.44	23.96	VPS230-760

◆ ***RoHS Compliant*** *CT = Center Tap

World Series™ Power Transformers — PC Mount

- World Series dual bobbin construction transformers meet U.S. and international standards including CSA, IEC, VDE and UL requirements.
- Hi-Pot Test: 4,000 VRMS
- Primary: 115/230V, 50/60 Hz

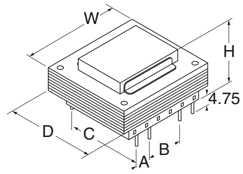

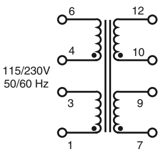

VA Size	Dimensions – Inch (mm) H	W	D	A	B	C	Pin Dim.	Wt. Kg
2.5	1.125 (28.58)	1.625 (41.28)	1.3125 (33.34)	.200 (5.08)	.250 (6.35)	1.000 (25.40)	.025 (.64)	.25 (.11)
5.0	1.375 (34.93)	1.625 (41.28)	1.3125 (33.34)	.200 (5.08)	.400 (10.16)	1.000 (25.40)	.025 (.64)	.37 (.17)
10.0	1.375 (34.93)	1.875 (47.63)	1.5625 (39.69)	.200 (5.08)	.400 (10.16)	1.140 (28.96)	.036 (.914)	.53 (.24)
20.0	1.625 (41.28)	2.25 (57.15)	1.875 (47.63)	.400 (10.16)	.400 (10.16)	1.460 (37.08)	.036 (.914)	.90 (.41)
30.0	1.5625 (39.69)	2.625 (66.68)	2.1875 (55.56)	.550 (13.97)	.275 (6.98)	1.680 (42.67)	.045 (1.14)	1.15 (.52)
56.0	1.8125 (46.04)	3.000 (76.20)	2.500 (63.50)	.600 (15.24)	.300 (7.62)	1.900 (48.26)	.045 (1.14)	1.70 (.77)

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	10	25	Triad Part No.
2.5	5 @ 0.5	10 @ 0.25	237-1060-ND◆	9.62	8.56	7.44	VPP10-250
5.0	5 @ 1.0	10 @ 0.5	237-1081-ND◆	10.36	9.25	8.04	VPP10-500
10.0	5 @ 2.0	10 @ 1.0	237-1053-ND◆	11.60	10.19	8.86	VPP10-1000
20.0	5 @ 4.0	10 @ 2.0	237-1067-ND◆	14.11	12.29	10.68	VPP10-2000
30.0	5 @ 6.0	10 @ 3.0	237-1074-ND◆	16.22	14.56	12.66	VPP10-3000
56.0	5 @ 11.2	10 @ 5.6	237-1088-ND◆	19.84	15.27	13.57	VPP10-5600
2.5	6.3 @ 0.4	12.6 @ 0.2	237-1061-ND◆	9.62	8.56	7.44	VPP12-200
5.0	6.3 @ 0.8	12.6 @ 0.4	237-1082-ND◆	10.36	9.25	8.04	VPP12-400
10.0	6.3 @ 1.6	12.6 @ 0.8	237-1054-ND◆	11.60	10.19	8.86	VPP12-800
20.0	6.3 @ 3.2	12.6 @ 1.6	237-1068-ND◆	14.11	12.29	10.68	VPP12-1600
30.0	6.3 @ 4.8	12.6 @ 2.4	237-1075-ND◆	16.22	14.56	12.66	VPP12-2400
56.0	6.3 @ 8.8	12.6 @ 4.4	237-1089-ND◆	19.84	15.27	13.57	VPP12-4400
2.5	8 @ 0.3	16 @ 0.15	237-1062-ND◆	9.62	8.56	7.44	VPP16-150
5.0	8 @ 0.62	16 @ 0.31	237-1083-ND	10.36	9.25	8.04	VPP16-310

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	10	25	Triad Part No.
10.0	8 @ 1.25	16 @ 0.62	237-1055-ND◆	11.60	10.19	8.86	VPP16-620
20.0	8 @ 2.5	16 @ 1.25	237-1069-ND◆	14.11	12.29	10.68	VPP16-1250
30.0	8 @ 3.8	16 @ 1.9	237-1076-ND◆	16.22	14.56	12.66	VPP16-1900
56.0	8 @ 7.0	16 @ 3.5	237-1090-ND◆	19.84	15.27	13.57	VPP16-3500
2.5	10 @ 0.24	20 @ 0.12	237-1063-ND◆	9.62	8.56	7.44	VPP20-120
5.0	10 @ 0.5	20 @ 0.25	237-1084-ND◆	10.36	9.25	8.04	VPP20-250
10.0	10 @ 1.0	20 @ 0.5	237-1056-ND◆	11.60	10.19	8.86	VPP20-500
20.0	10 @ 2.0	20 @ 1.0	237-1070-ND◆	14.11	12.29	10.68	VPP20-1000
30.0	10 @ 3.0	20 @ 1.5	237-1077-ND◆	16.22	14.56	12.66	VPP20-1500
56.0	10 @ 5.6	20 @ 2.8	237-1091-ND◆	19.84	15.27	13.57	VPP20-2800
2.5	12 @ 0.2	24 @ 0.1	237-1064-ND◆	9.62	8.56	7.44	VPP24-100
5.0	12 @ 0.42	24 @ 0.21	237-1085-ND◆	10.36	9.25	8.04	VPP24-210
10.0	12 @ 0.84	24 @ 0.42	237-1057-ND◆	11.60	10.19	8.86	VPP24-420
20.0	12 @ 1.66	24 @ 0.83	237-1071-ND◆	14.11	12.29	10.68	VPP24-830

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	10	25	Triad Part No.
30.0	12 @ 2.50	24 @ 1.25	237-1078-ND◆	16.22	14.56	12.66	VPP24-1250
56.0	12 @ 4.66	24 @ 2.33	237-1092-ND◆	19.84	15.27	13.57	VPP24-2330
2.5	14 @ 0.18	28 @ 0.09	237-1065-ND◆	9.62	8.56	7.44	VPP28-090
5.0	14 @ 0.36	28 @ 0.18	237-1086-ND◆	10.36	9.25	8.04	VPP28-180
10.0	14 @ 0.72	28 @ 0.36	237-1058-ND◆	11.60	10.19	8.86	VPP28-360
20.0	14 @ 1.44	28 @ 0.72	237-1072-ND◆	14.11	12.29	10.68	VPP28-720
30.0	14 @ 2.12	28 @ 1.06	237-1079-ND◆	16.22	14.56	12.66	VPP28-1060
56.0	14 @ 4.0	28 @ 2.0	237-1094-ND◆	19.84	15.27	13.57	VPP28-2000
2.5	18 @ 0.14	36 @ 0.07	237-1066-ND◆	9.62	8.56	7.44	VPP36-070
5.0	18 @ 0.28	36 @ 0.14	237-1087-ND◆	10.36	9.25	8.04	VPP36-140
10.0	18 @ 0.56	36 @ 0.28	237-1059-ND◆	11.60	10.19	8.86	VPP36-280
20.0	18 @ 1.12	36 @ 0.56	237-1073-ND◆	14.11	12.29	10.68	VPP36-560
30.0	18 @ 1.64	36 @ 0.82	237-1080-ND◆	16.22	14.56	12.66	VPP36-820
56.0	18 @ 3.12	36 @ 1.56	237-1095-ND◆	19.84	15.27	13.57	VPP36-1560

◆ ***RoHS Compliant*** *CT = Center Tap

M

TRIAD
MAGNETICS

Power Transformers

PC Mount - Pack Power

- Designed to meet the needs of low clearance PC board and solid state power designs.
- Hi-Pot Test: 2,000VRMS
- Primary: 115/230V, 50/60 Hz
- Class B UL Recognized, UL File E53148

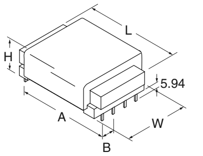

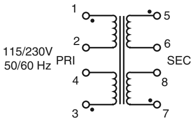

VA Size	Dimensions – Inch (mm)					Wt. Oz. (Gram)
	H	W	L	A	B	
2.5	0.650 (16.51)	1.562 (39.67)	1.875 (47.63)	1.600 (40.64)	0.375 (9.52)	5 (141.75)
6.0	0.875 (22.23)	1.562 (39.67)	1.875 (47.63)	1.600 (40.64)	0.375 (9.52)	7 (198.44)
12.0	1.062 (26.97)	2.000 (50.80)	2.500 (63.50)	2.000 (50.80)	0.500 (12.70)	11 (311.84)

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
2.5	5 @ 0.5	10 @ 0.25	237-1008-ND◆	10.76	9.37	8.14	7.13	6.23	FP10-250
	6.3@ 0.4	12.6 @ 0.2	237-1009-ND◆	10.76	9.37	8.14	7.13	6.23	FP12-200
	8 @ 0.3	16 @ 0.15	237-1010-ND◆	10.76	9.37	8.14	7.13	6.23	FP16-150
	10 @ 0.25	20 @ 0.125	237-1011-ND	10.76	9.37	8.14	7.13	6.23	FP20-125
	12 @ 0.2	24 @ 0.1	237-1012-ND◆	10.76	9.37	8.14	7.13	6.23	FP24-100
	15 @ 0.16	30@ 0.08	237-1013-ND	10.76	9.37	8.14	7.13	6.23	FP30-85
	17 @ 0.15	34 @ 0.075	237-1014-ND◆	10.76	9.37	8.14	7.13	6.23	FP34-75
	28 @ 0.09	56 @ 0.045	237-1015-ND◆	10.76	9.37	8.14	7.13	6.23	FP56-45
6.0	5 @ 1.2	10 @ 0.6	237-1016-ND◆	12.00	10.61	9.29	8.18	7.21	FP10-600
	6.3@ 0.95	12.6 @ 0.475	237-1017-ND◆	12.00	10.61	9.29	8.18	7.21	FP12-475
	8 @ 0.75	16 @ 0.375	237-1018-ND◆	12.00	10.61	9.29	8.18	7.21	FP16-375
	10 @ 0.6	20 @ 0.3	237-1019-ND◆	12.00	10.61	9.29	8.18	7.21	FP20-300
	12 @ 0.5	24 @ 0.25	237-1020-ND◆	12.00	10.61	9.29	8.18	7.21	FP24-250
	15 @ 0.4	30@ 0.2	237-1021-ND◆	12.00	10.61	9.29	8.18	7.21	FP30-200
	17 @ 0.34	34 @ 0.17	237-1022-ND◆	12.00	10.61	9.29	8.18	7.21	FP34-170
	28 @ 0.2	56 @ 0.1	237-1023-ND◆	12.00	10.61	9.29	8.18	7.21	FP56-100
12.0	5 @ 2.4	10 @ 1.2	237-1000-ND	14.00	11.28	10.16	8.75	7.51	FP10-1200
	6.3@ 1.9	12.6 @ 0.95	237-1001-ND◆	14.00	11.28	10.16	8.75	7.51	FP12-950
	8 @ 1.5	16 @ 0.75	237-1002-ND◆	14.00	11.28	10.16	8.75	7.51	FP16-750
	10 @ 1.2	20 @ 0.6	237-1003-ND◆	14.00	11.28	10.16	8.75	7.51	FP20-600
	12 @ 1.0	24 @ 0.5	237-1004-ND◆	14.00	11.28	10.16	8.75	7.51	FP24-500
	15 @ 0.8	30@ 0.4	237-1005-ND◆	14.00	11.28	10.16	8.75	7.51	FP30-400
	17 @ 0.68	34 @ 0.34	237-1006-ND◆	14.00	11.28	10.16	8.75	7.51	FP34-340
	28 @ 0.4	56 @ 0.2	237-1007-ND	14.00	11.28	10.16	8.75	7.51	FP56-200

◆ ***RoHS Compliant*** * CT = Center Tap

PC Mount - Split Pack™

- Split Pack split bobbin transformer for PC board applications
- Hi-Pot Test: 2,500VRMS
- Primary: 115/230V, 50/60 Hz
- Class B UL Recognized, UL File E53148

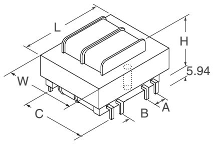

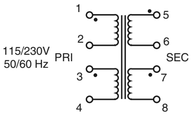

8 PIN

VA Size	Dimensions – Inch (mm)						Wt. Lbs. (Kg)
	H	W	L	A	B	C	
1.1	.9375 (23.81)	1.125 (28.58)	1.375 (34.93)	.250 (6.35)	.250 (6.35)	1.20 (30.48)	.17 (.08)
2.5	1.1875 (30.16)	1.125 (28.58)	1.375 (34.93)	.250 (6.35)	.250 (6.35)	1.20 (30.48)	.25 (.11)
6.0	1.3125 (33.34)	1.3125 (33.34)	1.625 (41.28)	.250 (6.35)	.350 (8.80)	1.280 (32.51)	.44 (.20)
12.0	1.4375 (36.51)	1.5625 (39.69)	1.875 (47.63)	.30 (7.62)	.40 (10.16)	1.410 (35.81)	.70 (.32)

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
1.1	6.3 @ 0.18	12.6 @ 0.09	237-1024-ND◆	8.71	7.10	6.39	5.51	4.73	FS12-090
	8 @ 0.14	16 @ 0.07	237-1025-ND◆	8.71	7.10	6.39	5.51	4.73	FS16-070
	10 @ 0.11	20 @ 0.055	237-1026-ND◆	8.71	7.10	6.39	5.51	4.73	FS20-055
	12 @ 0.09	24 @ 0.045	237-1028-ND◆	8.71	7.10	6.39	5.51	4.73	FS24-045
	14 @ 0.08	28 @ 0.04	237-1029-ND	8.71	7.10	6.39	5.51	4.73	FS28-040
	18 @ 0.06	36 @ 0.03	237-1030-ND	8.71	7.10	6.39	5.51	4.73	FS36-030
2.5	5 @ 0.5	10 @ 0.25	237-1031-ND◆	9.00	7.26	6.54	5.63	4.83	FS10-250
	6.3@ 0.4	12.6 @ 0.2	237-1032-ND◆	9.00	7.26	6.54	5.63	4.83	FS12-200
	8 @ 0.3	16 @ 0.15	237-1033-ND	9.00	7.26	6.54	5.63	4.83	FS16-150
	10 @ 0.24	20 @ 0.12	237-1034-ND	9.00	7.26	6.54	5.63	4.83	FS20-120
	12 @ 0.2	24 @ 0.1	237-1035-ND	9.00	7.26	6.54	5.63	4.83	FS24-100
	14 @ 0.17	28@ 0.085	237-1036-ND	9.00	7.26	6.54	5.63	4.83	FS28-85
	18 @ 0.13	36 @ 0.065	237-1037-ND	9.00	7.26	6.54	5.63	4.83	FS36-65
6.0	5 @ 1.2	10 @ 0.6	237-1038-ND◆	9.60	7.84	7.06	6.08	5.22	FS10-600
	6.3@ 1.0	12.6 @ 0.5	237-1039-ND◆	9.60	7.84	7.06	6.08	5.22	FS12-500
	8 @ 0.8	16 @ 0.4	237-1040-ND◆	9.60	7.84	7.06	6.08	5.22	FS16-400
	10 @ 0.6	20 @ 0.3	237-1041-ND◆	9.60	7.84	7.06	6.08	5.22	FS20-300
	12 @ 0.5	24 @ 0.25	237-1042-ND◆	9.60	7.84	7.06	6.08	5.22	FS24-250
	14 @ 0.4	28 @ 0.2	237-1043-ND◆	9.60	7.84	7.06	6.08	5.22	FS28-200
	18 @ 0.34	36 @ 0.17	237-1044-ND	9.60	7.84	7.06	6.08	5.22	FS36-170
12.0	5 @ 2.4	10 @ 1.2	237-1045-ND◆	11.00	8.94	8.05	6.93	5.95	FS10-1200
	6.3 @ 2.0	12.6 @ 1.0	237-1046-ND◆	11.00	8.94	8.05	6.93	5.95	FS12-1000
	8.0 @ 1.6	16 @ 0.8	237-1047-ND◆	11.00	8.94	8.05	6.93	5.95	FS16-800
	10 @ 1.2	20 @ 0.6	237-1048-ND◆	11.00	8.94	8.05	6.93	5.95	FS20-600
	12 @ 1.0	24 @ 0.5	237-1050-ND◆	11.00	8.94	8.05	6.93	5.95	FS24-500
	14 @ 0.84	28 @ 0.42	237-1051-ND◆	11.00	8.94	8.05	6.93	5.95	FS28-420
	18 @ 0.7	36 @ 0.35	237-1052-ND◆	11.00	8.94	8.05	6.93	5.95	FS36-350

◆ ***RoHS Compliant*** * CT = Center Tap

Audio Transformers

Data/Voice Coupling

SPECIFICATIONS: Designed to meet FCC Part 68. **Longitudinal Balance:** (FCC68.310): 60dB minimum 200 ~ 1000 Hz, 45 dB mn. 1000 ~ 4000 Hz. **Dielectric Strength:** (FCC 68.304): 1500V. **Frequency Range:** Data/Voice = 300 ~ 3500 Hz, Data = 800 ~ 3500 Hz

Schematic A

TY-305P	PRI 2, 3; SEC 6, 7
TY-307P, TY-310P TY-311P, TY-400P TY-301P, TY-303P TY-402P	PRI 1, 3; SEC 4, 6

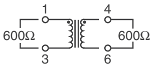

Schematic B

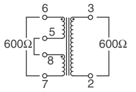

Schematic C

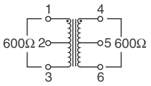

Schematic D

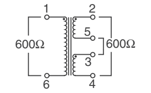

Schematic E

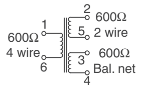

Fig. 1

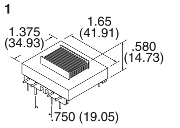

Fig. 2

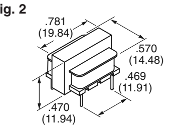

Fig. 3

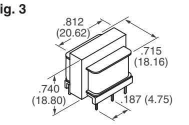

Fig. 4

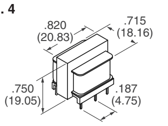

Fig. 5

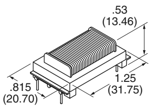

Fig. 6

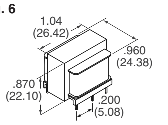

Fig.	Sche-matic	Impedance Pri.	Sec.	IDC Max. (mA)	Insertion Loss (dB)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
Data/Voice Coupling Transformers											
1	A	600	600	100	1.5	237-1128-ND◆	10.94	8.86	7.88	7.14	TY-305P
1	B	600 Split	600	75	1.5	237-1129-ND◆	10.94	8.86	7.88	7.14	TY-306P
2	A	600	600	0	1.0	237-1130-ND◆	6.41	5.19	4.61	4.18	TY-307P
3	A	600	600	0	1.0	237-1132-ND◆‡	5.56	4.50	4.00	3.63	TY-311P
3	C	600 CT*	600 CT*	0	1.0	237-1127-ND◆	5.56	4.50	4.00	3.63	TY-304P
3	A	600	900	0	1.0	237-1124-ND	5.56	4.50	4.00	3.63	TY-301P
3	A	4000	600	0	1.0	237-1126-ND◆	5.56	4.50	4.00	3.63	TY-303P
4	A	600	600	90	1.75	237-1133-ND◆‡	8.34	6.75	6.00	5.44	TY-400P
4	C	600 CT*	600 CT*	90	1.75	237-1134-ND	8.34	6.75	6.00	5.44	TY-401P
5	A	600	600	90	1.75	237-1135-ND◆‡	6.89	5.58	4.96	4.50	TY-402P
5	D	600	600 Split	90	1.75	237-1136-ND◆	6.89	5.58	4.96	4.50	TY-403P
Data/Voice Dual Transformer Hybrids — RoHS Compliant											
3	E	600 (4W)	600/600	0	.80	237-1123-ND†	5.56	4.50	4.00	3.63	TY-300P
6	E	600 (4W)	600/600	0	.65	237-1125-ND†	8.33	6.75	6.00	5.44	TY-302P

◆ ***RoHS Compliant*** * CT = Center Tap ‡ Four-pin configuration
† Two required for conventional hybrid operation, the insertion loss does not include 3dB in hybrid balance network.

PC Mount

RoHS COMPLIANT

DESCRIPTION: Audio transformers are used in line matching, telephone coupling, pulse trigger and driver applications. **SPECIFICATIONS:** Frequency Response Ranges: 200 ~ 15,000 Hz

Fig. 1

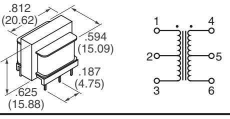

Fig. 2

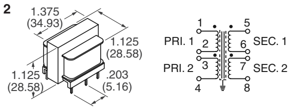

Fig.	Matching Impedance Pri.	Sec.	DC Unbal. in Pri. Max. (mA)	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
1	10,000 CT*	10,000 CT*	4 mA	237-1118-ND	3.89	3.15	2.80	2.54	2.16	TY-141P
1	10,000 CT*	2,000 CT*	4 mA	237-1119-ND	3.89	3.15	2.80	2.54	2.16	TY-142P
1	15,000 CT*	15,000 CT*	4 mA	237-1120-ND	3.89	3.15	2.80	2.54	2.16	TY-144P
1	600 CT*	600 CT*	15 mA	237-1121-ND	3.89	3.15	2.80	2.54	2.16	TY-145P
2	600 CT/150§	600 CT/150§	—	237-1122-ND	7.22	5.85	5.20	4.72	4.00	TY-146P

* CT = Center Tap § Split Winding

MIL-T-27E

DESCRIPTION: The line of Red Spec audio transformers is designed and constructed to meet the rigid requirements of MIL-T-27E. **SPECIFICATIONS:** Frequency Response Ranges: 300 Hz ~ 150 kHz **TECHNICAL NOTES:** • HI-Pot Test: 1,000 VRMS • Working Voltage: 150VDC

Pin-Out #	Pinout Primary	Secondary
1	1,2	3,4
2	1, 2CT, 3	4, 5
3	1, 2CT, 3	4, 5CT, 6
4	1, 2	3, 4,§, 5, 6

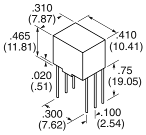

Power Level in mW	Matching Impedance Pri.	Sec.	DC Unbal. in Pri. Max. (mA)	Pin-Out #	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
10	200,000 CT*	1,000 CT*	0.0	3	237-1137-ND◆	21.29	17.25	15.33	13.90	SP-4
50	10,000 CT*	2,000 CT*	1.0	3	237-1141-ND◆	21.21	17.19	15.28	13.85	SP-21
	1,000	50	3.0	1	237-1144-ND◆	17.25	13.97	12.42	11.26	SP-33
	150 CT*	12	10.0	2	237-1145-ND	15.51	12.57	11.17	10.13	SP-42
	7,500 CT*	12	1.0	2	237-1146-ND◆	18.39	14.89	13.24	12.00	SP-48
	900 CT*	600	4.0	2	237-1149-ND◆	19.12	15.48	13.76	12.47	SP-51
	10,000 CT*	10,000 CT*	1.0	3	237-1151-ND◆	16.93	13.72	12.20	11.05	SP-66
	600 CT*	600 CT*	3.0	3	237-1152-ND◆	18.64	15.11	13.43	12.17	SP-67
	600	600 CT/150§	3.0	4	237-1154-ND◆	18.56	15.03	13.36	12.11	SP-69
	600	600	3.0	1	237-1155-ND◆	17.48	14.17	12.60	11.42	SP-70
—	—	Shield Only	—	—	237-1157-ND◆	3.41	2.76	2.45	2.22	SP-310

◆ ***RoHS Compliant*** * CT = Center Tap § Split Secondary

TRIAD
MAGNETICS

Switchmode Transformers

High Frequency Gate Drive

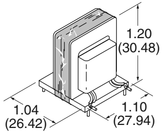

DESCRIPTION: TRIAD gate drive transformers are used to isolate the control circuitry from the line-connected switches such as with power supplies. The windings are interleaved for the lowest possible practical leakage inductance. Maximum leakage Inductance: 2.5 µH. Features operating frequencies up to 200 kHz. **TECHNICAL NOTES:** • Hi-Pot tested: 3,750VRMS • Pin-out: Drive = Pins 1, 2. Gate = Pins 3, 6 and Dual Gate = Pins 3, 4; 5, 6

Maximum DCR Gate (Ω)	Maximum ET Product (VµSec)	Turns Ratio	Minimum Inductance (mH)	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
.350	540	1:1	.680	237-1111-ND	15.56	12.60	11.20	10.15	8.61	GDE25-1
.650	540	1:1:1	.680	237-1112-ND†	15.56	12.60	11.20	10.15	8.61	GDE25-2
.350	840	1.5:1	1.50	237-1113-ND	15.56	12.60	11.20	10.15	8.61	GDE25-3
.650	840	1.5:1:1	1.50	237-1114-ND†	15.56	12.60	11.20	10.15	8.61	GDE25-4
.875	540	1:1.5	.680	237-1115-ND	15.56	12.60	11.20	10.15	8.61	GDE25-5
1.75	540	1:1.5:1.5	.680	237-1116-ND†	15.56	12.60	11.20	10.15	8.61	GDE25-6

† Dual Secondary Gate

237-1117-ND (GDE25-KIT) - 6 piece kit (one of each)... **$88.89**

Low Frequency Current Sense Transformer

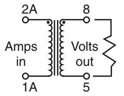

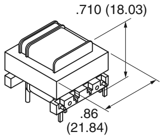

Description:
Designed to monitor current in low frequency applications. Frequencies from 50Hz ~ 400Hz, Current from .1 to 30 amperes.

Technical Notes:
• Turns ratio: Primary to sense 1:500 • Suggested burden resistor: 60Ω • Hi-Pot: 2,500 volts

Primary DCR Maximum (µΩ)	Sense DCR Maximum (Ω)	Typical Output (mV/Amp)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
250	21	110	237-1103-ND	2.89	2.34	2.08	1.89	CSE187L

High Frequency Current Sense Transformer

Fig. 1

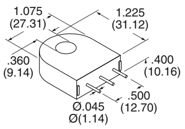

Fig. 2

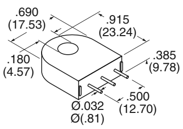

TRIAD current sense transformers are used to detect the current passing through a conductor. They are constructed of UL rated 130°C materials.

Frequency Range: 20kHz ~ 200kHz

Fig.	Min. Ind. (mH)	ET VµSEC Ref 20kHz	Pri. (Amps)	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
1	14.0	2000	110.0 RMS	237-1096-ND◆	6.11	4.95	4.40	3.99	3.39	CST206-1A
	14.0	2000	110.0 RMS	237-1097-ND◆	6.67	5.40	4.80	4.35	3.69	CST206-1T*
	56.0	4000	80.0 RMS	237-1098-ND◆	6.11	4.95	4.40	3.99	3.39	CST206-2A
	56.0	4000	80.0 RMS	237-1099-ND	6.67	5.40	4.80	4.35	3.69	CST206-2T*
	130.0	6000	70.0 RMS	237-1100-ND	6.11	4.95	4.40	3.99	3.39	CST206-3A
	130.0	6000	70.0 RMS	237-1101-ND◆	6.67	5.40	4.80	4.35	3.69	CST206-3T*
2	3.5	500	35.0 RMS	237-1104-ND◆	4.11	3.33	2.96	2.69	2.28	CST306-1A
	3.5	500	35.0 RMS	237-1105-ND	4.67	3.78	3.36	3.05	2.59	CST306-1T*
	14.0	1000	25.0 RMS	237-1106-ND◆	4.11	3.33	2.96	2.69	2.28	CST306-2A
	14.0	1000	25.0 RMS	237-1107-ND	4.67	3.78	3.36	3.05	2.59	CST306-2T*
	55.0	2000	25.0 RMS	237-1108-ND◆	4.11	3.33	2.96	2.69	2.28	CST306-3A
	55.0	2000	25.0 RMS	237-1109-ND◆	4.67	3.78	3.36	3.05	2.59	CST306-3T*

◆ ***RoHS Compliant*** † T Suffix = Center Tapped 3-pin version

237-1102-ND (CST206-KIT) - 6 piece kit (one of each in series CST206) — ***RoHS Compliant*** **$33.30**
237-1110-ND (CST306-KIT) - 6 piece kit (one of each in series CST306) — ***RoHS Compliant*** **$22.22**

Switchmode / High Frequency Inductors

Rod Core

Fig. 1

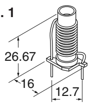

Fig. 2

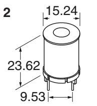

TRIAD high current rod core inductors provide cost effective energy storage. By conditioning the output signal, the inductor smooths out the current waveform to provide a more stable current. These low cost inductors are designed to be compatible with automated P.C.B. installation.

Fig.	±15% Induct. (µH)	DC Rated Current (A)	Maximum DC Resist. (mΩ)	Lead Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
High Current Rod Core Inductors										
1	2.54	11.60	5.50	.050 (1.27)	237-1158-ND	2.44	1.98	1.76	1.60	FIRCH-1
	3.60	8.10	9.95	.040 (1.02)	237-1160-ND	2.44	1.98	1.76	1.60	FIRCH-3
	5.90	5.70	18.50	.032 (.81)	237-1162-ND	2.44	1.98	1.76	1.60	FIRCH-5
	7.22	4.80	26.10	.028 (.71)	237-1163-ND	2.44	1.98	1.76	1.60	FIRCH-6

Fig.	10% Induct.	DC Rated Current (A)	±15% DC Resist. (Ω)	Lead Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
Rod Core Inductors										
2	5.6mH	.250	6.100	.032 (.81)	237-1165-ND◆	2.71	2.20	1.96	1.77	RC-1
	3.9mH	.320	3.900		237-1166-ND◆	2.71	2.20	1.96	1.77	RC-2
	2.5mH	.400	2.450		237-1167-ND◆	2.71	2.20	1.96	1.77	RC-3
	1.5mH	.500	1.530		237-1168-ND◆	2.71	2.20	1.96	1.77	RC-4
	915.0µH	.625	1.000		237-1169-ND◆	2.71	2.20	1.96	1.77	RC-5
	560.0µH	.800	.600		237-1170-ND	2.71	2.20	1.96	1.77	RC-6
	450.0µH	1.000	.420		237-1171-ND◆	2.71	2.20	1.96	1.77	RC-7
	250.0µH	1.250	.210		237-1172-ND◆	2.71	2.20	1.96	1.77	RC-8
	200.0µH	1.600	.180		237-1173-ND◆	2.71	2.20	1.96	1.77	RC-9
	100.0µH	2.000	.098		237-1175-ND◆	2.71	2.20	1.96	1.77	RC-10
	75.0µH	2.500	.070		237-1176-ND◆	2.71	2.20	1.96	1.77	RC-11

◆ ***RoHS Compliant***

237-1177-ND (RC-KIT) 11 piece kit - one of each Rod Core Inductor — ***RoHS Compliant*** **$27.78**

Common Mode

DESCRIPTION: • TRIAD common mode EMI suppression inductors are used to eliminate noise common to all lines • Meeting VDE, IEC, UL and CSA requirements • Constructed with UL rated 130°C materials • Hi-Pot Tested: 2,500VRMS

Fig. 1

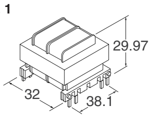

Fig. 2

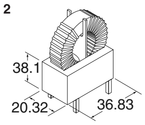

Fig. 3

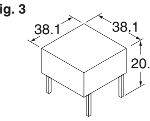

Fig.	Min. Induct. (mH)	Amps. R.M.S	Max. DC Resist. (Ω)	Min. Leakage	Pin-Out Winding I	Pin-Out Winding II	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
E-Core Inductors												
1	4.4	5.500	.049	45.0µH	1 & 6	7 & 12	237-1210-ND	6.78	5.49	4.88	4.43	CME375-1
	17.8	2.700	.196	180.0µH			237-1213-ND	6.78	5.49	4.88	4.43	CME375-4
	28.6	2.200	.316	300.0µH			237-1214-ND	6.78	5.49	4.88	4.43	CME375-5
	43.6	1.750	.489	440.0µH			237-1215-ND	6.78	5.49	4.88	4.43	CME375-6
	70.3	1.380	.785	720.0µH			237-1216-ND	6.78	5.49	4.88	4.43	CME375-7
	111.6	1.100	1.240	1.1mH			237-1217-ND◆	6.78	5.49	4.88	4.43	CME375-8
	176.1	0.870	1.980	1.8mH			237-1218-ND	6.78	5.49	4.88	4.43	CME375-9
Encapsulated Toroidal Inductors — RoHS Compliant												
2	2.00	7.50	.020	25.0µH	1 & 2	3 & 4	237-1230-ND	4.78	3.87	3.44	3.12	CMT908-V1
	4.00	5.20	.040	45.0µH			237-1231-ND	4.78	3.87	3.44	3.12	CMT908-V2
	8.00	3.20	.120	90.0µH			237-1232-ND	4.78	3.87	3.44	3.12	CMT908-V3
	16.00	2.60	.160	180.0µH			237-1233-ND	4.78	3.87	3.44	3.12	CMT908-V4
3	2.00	7.50	.020	25.0µH	1 & 2	3 & 4	237-1234-ND	4.78	3.87	3.44	3.12	CMT908-H1
	4.00	5.20	.040	45.0µH			237-1235-ND	4.78	3.87	3.44	3.12	CMT908-H2
	8.00	3.20	.120	90.0µH			237-1236-ND	4.78	3.87	3.44	3.12	CMT908-H3
	16.00	2.60	.160	180.0µH			237-1237-ND	4.78	3.87	3.44	3.12	CMT908-H4

◆ ***RoHS Compliant***

237-1238-ND (CMT908-KIT) 8 piece kit - one of each Encapsulated Toroidal Ind. Series CMT908 — ***RoHS Compliant*** ... **$33.33**

Toroidal

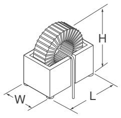

DESCRIPTION:
TRIAD toroidal inductors condition the output signal by leveling out the current waveform providing a more stable current supply.

TECHNICAL NOTES:
• Nominal inductance values are typically 10% higher than minimum rating. • Biased inductance measured at rated DC amps.

Min. Induct. (µH) No Bias	Min. Induct. (µH) At Bias	Rated DC (Amps)	Max DCR (mΩ)	Dims. - Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
18.85	12.72	2.8	44.8	.625 x .350 x .700 (15.88 x 8.89 x 17.78)	237-1178-ND◆	1.96	1.59	1.41	1.28	FIT44-1
14.75	9.82	3.4	30.7		237-1179-ND	1.96	1.59	1.41	1.28	FIT44-2
12.30	7.75	4.0	23.4		237-1180-ND◆	1.96	1.59	1.41	1.28	FIT44-3
8.06	5.22	4.8	15.9		237-1181-ND◆	1.96	1.59	1.41	1.28	FIT44-4
47.40	29.00	2.8	78.9	.700 x .475 x .750 (17.78 x 12.06 x 19.05)	237-1182-ND◆	2.31	1.88	1.67	1.51	FIT50-1
35.48	23.77	3.4	57.8		237-1183-ND◆	2.31	1.88	1.67	1.51	FIT50-2
27.16	16.13	4.0	40.1		237-1184-ND	2.31	1.88	1.67	1.51	FIT50-3
21.65	12.27	4.8	29.2		237-1185-ND◆	2.31	1.88	1.67	1.51	FIT50-4
16.76	9.50	5.7	20.0		237-1186-ND◆	2.31	1.88	1.67	1.51	FIT50-5
12.50	6.75	6.8	14.0		237-1187-ND◆	2.31	1.88	1.67	1.51	FIT50-6
8.86	4.80	8.1	11.0		237-1188-ND◆	2.31	1.88	1.67	1.51	FIT50-7
89.50	57.99	2.8	108.0	.875 x .475 x .950 (22.23 x 12.06 x 24.13)	237-1189-ND◆	2.80	2.27	2.02	1.83	FIT68-1
71.10	41.59	3.4	86.1		237-1190-ND◆	2.80	2.27	2.02	1.83	FIT68-2
54.81	33.05	4.0	59.9		237-1191-ND◆	2.80	2.27	2.02	1.83	FIT68-3
43.30	26.63	4.8	42.4		237-1192-ND◆	2.80	2.27	2.02	1.83	FIT68-4
33.15	18.79	5.7	28.8		237-1193-ND◆	2.80	2.27	2.02	1.83	FIT68-5
24.31	13.56	6.8	20.2		237-1194-ND◆	2.80	2.27	2.02	1.83	FIT68-6
18.64	10.23	8.1	14.8		237-1195-ND◆	2.80	2.27	2.02	1.83	FIT68-7
128.00	74.04	4.0	95.2	.975 x .625 x 1.100 (24.77 x 15.88 x 27.94)	237-1196-ND◆	3.47	2.81	2.50	2.27	FIT80-1
107.50	58.05	4.8	67.9		237-1197-ND	3.47	2.81	2.50	2.27	FIT80-2
80.75	42.00	5.7	44.8		237-1198-ND◆	3.47	2.81	2.50	2.27	FIT80-3
65.04	31.60	6.8	32.8		237-1199-ND◆	3.47	2.81	2.50	2.27	FIT80-4
47.70	22.79	8.1	22.5		237-1200-ND◆	3.47	2.81	2.50	2.27	FIT80-5
38.07	18.11	9.7	17.0		237-1201-ND◆	3.47	2.81	2.50	2.27	FIT80-6
253.00	153.00	4.0	139.0	1.300 x .725 x 1.400 (33.02 x 18.42 x 35.56)	237-1202-ND◆	4.31	3.50	3.11	2.82	FIT106-1
197.00	113.00	4.8	106.0		237-1203-ND	4.31	3.50	3.11	2.82	FIT106-2
154.00	84.00	5.7	74.0		237-1205-ND◆	4.31	3.50	3.11	2.82	FIT106-3
116.00	61.90	6.8	48.5		237-1206-ND◆	4.31	3.50	3.11	2.82	FIT106-4
93.00	48.00	8.1	39.1		237-1207-ND◆	4.31	3.50	3.11	2.82	FIT106-5
70.05	35.30	9.7	24.0		237-1208-ND◆	4.31	3.50	3.11	2.82	FIT106-6

◆ ***RoHS Compliant***

237-1209-ND (FIT-KIT) 30 piece kit - one of each Toroidal Inductor **$83.33**

Signal Transformer One-4-All™ International Transformers Printed Circuit Mount

Specifications:
• **Dielectric Strength:** 4000VRMS Hipot • **Insulation:** Class F insulation (155°C) • **Flammability:** Bobbin and wrap around shroud material meet UL 94V0

Agency Standards:
• UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070) • VDE certified to VDE 0805/ EN 60950 (File #1446) • VDE certified to IEC 950

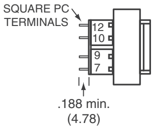

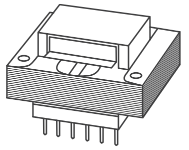

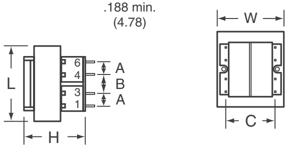

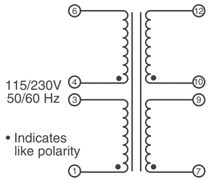

VA Size	Dimensions – Inch (mm) L	W	H	A	B	C	Sq. Pin Dimensions	Wgt. Lbs. (Kg)
2.5	1.62 (41.3)	1.43 (36.5)	1.12 (28.6)	0.200 (5.08)	0.250 (6.35)	1.000 (25.4)	0.025 (0.635)	0.25 (0.113)
5	1.62 (41.3)	1.43 (36.5)	1.37 (34.9)	0.200 (5.08)	0.400 (10.16)	1.000 (25.4)	0.025 (0.635)	0.37 (0.168)
10	1.87 (47.6)	1.56 (39.7)	1.37 (34.9)	0.200 (5.08)	0.400 (10.16)	1.140 (29.0)	0.038 (0.965)	0.53 (0.240)
20	2.25 (57.2)	1.87 (47.6)	1.62 (41.3)	0.400 (10.2)	0.400 (10.16)	1.460 (37.1)	0.038 (0.965)	0.90 (0.41)
30	2.62 (66.7)	2.18 (55.5)	1.56 (39.7)	0.550 (13.9)	0.275 (7.0)	1.680 (42.7)	0.045 (1.14)	1.15 (0.52)
56	3.00 (76.2)	2.50 (63.5)	1.81 (46.0)	0.600 (15.2)	0.300 (7.6)	1.900 (48.3)	0.045 (1.14)	1.70 (0.77)

VA (Size)	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
2.5	12.6 @ 0.20	6.3 @ 0.40	595-1000-ND	10.30	7.77	6.76	14A-2.5R-12
5	12.6 @ 0.40	6.3 @ 0.80	595-1001-ND	11.15	8.41	7.31	14A-5.0R-12
10	12.6 @ 0.80	6.3 @ 1.60	595-1002-ND	12.34	9.33	8.12	14A-10R-12
20	12.6 @ 1.6	6.3 @ 3.2	595-1003-ND	15.01	11.38	9.93	14A-20-12
30	12.6 @ 2.4	6.3 @ 4.8	595-1004-ND	18.10	13.80	12.08	14A-30-12
56	12.6 @ 4.4	6.3 @ 8.8	595-1005-ND	23.04	17.64	15.47	14A-56-12
2.5	16 @ 0.15	8 @ 0.30	595-1006-ND	10.30	7.77	6.76	14A-2.5R-16
5	16 @ 0.31	8 @ 0.62	595-1007-ND	11.15	8.41	7.31	14A-5.0R-16
10	16 @ 0.62	8 @ 1.25	595-1008-ND	12.34	9.33	8.12	14A-10R-16
20	16 @ 1.25	8 @ 2.5	595-1009-ND	15.01	11.38	9.93	14A-20-16
30	16 @ 1.9	8 @ 3.8	595-1010-ND	18.10	13.80	12.08	14A-30-16
56	16 @ 3.5	8 @ 7.0	595-1011-ND	23.04	17.64	15.47	14A-56-16
2.5	20 @ 0.12	10 @ 0.24	595-1012-ND	10.30	7.77	6.76	14A-2.5R-20
5	20 @ 0.25	10 @ 0.50	595-1013-ND	11.15	8.41	7.31	14A-5.0R-20
10	20 @ 0.50	10 @ 1.00	595-1014-ND	12.34	9.33	8.12	14A-10R-20
20	20 @ 1.0	10 @ 2.0	595-1015-ND	15.01	11.38	9.93	14A-20-20
30	20 @ 1.5	10 @ 3.0	595-1016-ND	18.10	13.80	12.08	14A-30-20
56	20 @ 2.8	10 @ 5.6	595-1017-ND	23.04	17.64	15.47	14A-56-20

VA (Size)	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
2.5	24 @ 0.10	12 @ 0.20	595-1018-ND	10.30	7.77	6.76	14A-2.5R-24
5	24 @ 0.21	12 @ 0.42	595-1019-ND	11.15	8.41	7.31	14A-5.0R-24
10	24 @ 0.42	12 @ 0.84	595-1020-ND	12.34	9.33	8.12	14A-10R-24
20	24 @ 0.83	12 @ 1.66	595-1021-ND	15.01	11.38	9.93	14A-20-24
30	24 @ 1.25	12 @ 2.50	595-1022-ND	18.10	13.80	12.08	14A-30-24
56	24 @ 2.33	12 @ 4.66	595-1023-ND	23.04	17.64	15.47	14A-56-24
2.5	28 @ 0.09	14 @ 0.18	595-1024-ND	10.30	7.77	6.76	14A-2.5R-28
10	28 @ 0.36	14 @ 0.72	595-1025-ND	12.34	9.33	8.12	14A-10R-28
20	28 @ 0.72	14 @ 1.44	595-1026-ND	15.01	11.38	9.93	14A-20-28
30	28 @ 1.06	14 @ 2.12	595-1027-ND	18.10	13.80	12.08	14A-30-28
56	28 @ 2.0	14 @ 4.0	595-1028-ND	23.04	17.64	15.47	14A-56-28
2.5	36 @ 0.07	18 @ 0.14	595-1029-ND	10.30	7.77	6.76	14A-2.5-36
5	36 @ 0.14	18 @ 0.28	595-1030-ND	11.15	8.41	7.31	14A-5.0-36
10	36 @ 0.28	18 @ 0.56	595-1031-ND	12.34	9.33	8.12	14A-10-36
20	36 @ 0.56	18 @ 1.12	595-1032-ND	15.01	11.38	9.93	14A-20-36
30	36 @ 0.82	18 @ 1.64	595-1033-ND	18.10	13.80	12.08	14A-30-36
56	36 @ 1.56	18 @ 3.12	595-1034-ND	23.04	17.64	15.47	14A-56-36

Two-4-One™ Power Transformers Chassis Mount

Split Bobbin with High Isolation

Specifications:
• **Dielectric Strength:** 2500VRMS Hipot • **Terminals:** Solder lug/quick-connect type terminals • **Insulation:** Class B (130°C) UL 1446 E66312

Agency Standards:
• UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070)

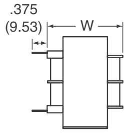

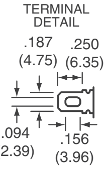

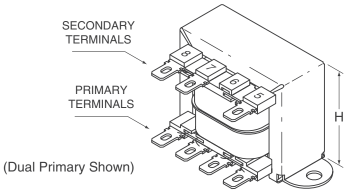

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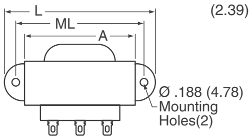

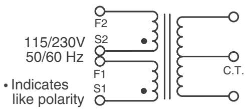

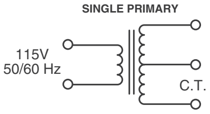

Size	VA	Dimensions – Inch (mm) L	W	H	A	ML (typ.)	Wgt. Lbs. (Kg)
4	6	2.37 (60.3)	1.31 (33.3)	1.43 (36.2)	1.71 (43.4)	2.00 (50.8)	0.44 (0.20)
5	12	2.81 (71.4)	1.43 (36.3)	1.69 (42.8)	1.97 (49.9)	2.37 (60.3)	0.7 (0.32)
6	30	3.25 (82.6)	1.74 (44.3)	1.96 (49.8)	2.35 (59.3)	2.81 (71.4)	1.1 (0.50)
7	56	3.68 (93.7)	1.94 (49.2)	2.28 (57.8)	2.70 (68.4)	3.13 (79.4)	1.7 (0.77)
8	100	4.03 (102.4)	2.30 (58.5)	2.67 (67.7)	3.08 (78.2)	3.63 (92.0)	2.75 (1.25)

Size	VA	Secondary RMS Rating VCT @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
			Single Primary 115V				
4	6	10 @ 0.60	595-1035-ND	9.90	7.50	6.53	241-4-10
5	12	10 @ 1.2	595-1036-ND	10.97	8.32	7.26	241-5-10
6	30	10 @ 3.0	595-1037-ND	15.41	11.74	10.27	241-6-10
7	56	10 @ 5.0	595-1038-ND	21.44	16.41	14.40	241-7-10
8	100	10 @ 10	595-1039-ND	29.39	22.59	19.88	241-8-10
4	6	12.6 @ 0.50	595-1040-ND	9.90	7.50	6.53	241-4-12
5	12	12.6 @ 1.0	595-1041-ND	10.97	8.32	7.26	241-5-12
6	30	12.6 @ 2.5	595-1042-ND	15.41	11.74	10.27	241-6-12
7	56	12.6 @ 4.0	595-1043-ND	21.44	16.41	14.40	241-7-12
8	100	12.6 @ 8.0	595-1044-ND	29.39	22.59	19.88	241-8-12
4	6	16 @ 0.40	595-1045-ND	9.90	7.50	6.53	241-4-16
5	12	16 @ 0.80	595-1046-ND	10.97	8.32	7.26	241-5-16
6	30	16 @ 2.0	595-1047-ND	15.41	11.74	10.27	241-6-16
7	56	16 @ 3.5	595-1048-ND	21.44	16.41	14.40	241-7-16
8	100	16 @ 6.25	595-1049-ND	29.39	22.59	19.88	241-8-16
4	6	20 @ 0.30	595-1050-ND	9.90	7.50	6.53	241-4-20
5	12	20 @ 0.60	595-1051-ND	10.97	8.32	7.26	241-5-20
6	30	20 @ 1.5	595-1052-ND	15.41	11.74	10.27	241-6-20
7	56	20 @ 2.8	595-1053-ND	21.44	16.41	14.40	241-7-20
8	100	20 @ 5.0	595-1054-ND	29.39	22.59	19.88	241-8-20
4	6	24 @ 0.25	595-1055-ND	9.90	7.50	6.53	241-4-24
5	12	24 @ 0.50	595-1056-ND	10.97	8.32	7.26	241-5-24
6	30	24 @ 1.25	595-1057-ND	15.41	11.74	10.27	241-6-24
7	56	24 @ 2.4	595-1058-ND	21.44	16.41	14.40	241-7-24
8	100	24 @ 4.0	595-1059-ND	29.39	22.59	19.88	241-8-24
5	12	28 @ 0.42	595-1060-ND	10.97	8.32	7.26	241-5-28
6	30	28 @ 1.1	595-1061-ND	15.41	11.74	10.27	241-6-28
7	56	28 @ 2.0	595-1062-ND	21.44	16.41	14.40	241-7-28
8	100	28 @ 3.6	595-1063-ND	29.39	22.59	19.88	241-8-28
4	6	36 @ 0.17	595-1064-ND	9.90	7.50	6.53	241-4-36
5	12	36 @ 0.35	595-1065-ND	10.97	8.32	7.26	241-5-36
6	30	36 @ 0.85	595-1066-ND	15.41	11.74	10.27	241-6-36
7	56	36 @ 1.5	595-1067-ND	21.44	16.41	14.40	241-7-36
8	100	36 @ 2.8	595-1068-ND	29.39	22.59	19.88	241-8-36

Size	VA	Secondary RMS Rating VCT @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
			Dual Primary 115V / 230V				
4	6	10 @ 0.60	595-1069-ND	12.00	9.07	7.90	DP-241-4-10
5	12	10 @ 1.2	595-1070-ND	13.23	10.01	8.72	DP-241-5-10
6	30	10 @ 3.0	595-1071-ND	17.38	13.21	11.55	DP-241-6-10
7	56	10 @ 5.0	595-1072-ND	21.99	16.82	14.76	DP-241-7-10
8	100	10 @ 10	595-1073-ND	30.75	23.62	20.76	DP-241-8-10
4	6	12.6 @ 0.50	595-1074-ND	12.00	9.07	7.90	DP-241-4-12
5	12	12.6 @ 1.0	595-1075-ND	13.23	10.01	8.72	DP-241-5-12
6	30	12.6 @ 2.5	595-1076-ND	17.38	13.21	11.55	DP-241-6-12
7	56	12.6 @ 4.0	595-1077-ND	21.99	16.82	14.76	DP-241-7-12
8	100	12.6 @ 8.0	595-1078-ND	30.75	23.62	20.76	DP-241-8-12
4	6	16 @ 0.40	595-1079-ND	12.00	9.07	7.90	DP-241-4-16
5	12	16 @ 0.80	595-1080-ND	13.23	10.01	8.72	DP-241-5-16
6	30	16 @ 2.0	595-1081-ND	17.38	13.21	11.55	DP-241-6-16
7	56	16 @ 3.5	595-1082-ND	21.99	16.82	14.76	DP-241-7-16
8	100	16 @ 6.25	595-1083-ND	30.75	23.62	20.76	DP-241-8-16
4	6	20 @ 0.30	595-1084-ND	12.00	9.07	7.90	DP-241-4-20
5	12	20 @ 0.60	595-1085-ND	13.23	10.01	8.72	DP-241-5-20
6	30	20 @ 1.5	595-1086-ND	17.38	13.21	11.55	DP-241-6-20
7	56	20 @ 2.8	595-1087-ND	21.99	16.82	14.76	DP-241-7-20
8	100	20 @ 5.0	595-1088-ND	30.75	23.62	20.76	DP-241-8-20
4	6	24 @ 0.25	595-1089-ND	12.00	9.07	7.90	DP-241-4-24
5	12	24 @ 0.50	595-1090-ND	13.23	10.01	8.72	DP-241-5-24
6	30	24 @ 1.25	595-1091-ND	17.38	13.21	11.55	DP-241-6-24
7	56	24 @ 2.4	595-1092-ND	21.99	16.82	14.76	DP-241-7-24
8	100	24 @ 4.0	595-1093-ND	30.75	23.62	20.76	DP-241-8-24
5	12	28 @ 0.42	595-1094-ND	13.23	10.01	8.72	DP-241-5-28
6	30	28 @ 1.1	595-1095-ND	17.38	13.21	11.55	DP-241-6-28
7	56	28 @ 2.0	595-1096-ND	21.99	16.82	14.76	DP-241-7-28
8	100	28 @ 3.6	595-1097-ND	30.75	23.62	20.76	DP-241-8-28
4	6	36 @ 0.17	595-1098-ND	12.00	9.07	7.90	DP-241-4-36
5	12	36 @ 0.35	595-1099-ND	13.23	10.01	8.72	DP-241-5-36
6	30	36 @ 0.85	595-1100-ND	17.38	13.21	11.55	DP-241-6-36
7	56	36 @ 1.5	595-1101-ND	21.99	16.82	14.76	DP-241-7-36
8	100	36 @ 2.8	595-1102-ND	30.75	23.62	20.76	DP-241-8-36

Signal Transformer Flat Head™ Low Profile Transformers Printed Circuit Mount

Specifications: • Dielectric Strength: 1500VRMS Hipot • Insulation: Class B insulation (130°C)
Agency Standards: • UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070)

VA (Size)	Dimensions – Inch (mm) A	B	C	L	W	H	N	Wgt. oz. (kg)
2	1.60 (40.6)	0.375 (9.5)	0.375 (9.5)	1.87 (47.5)	1.56 (39.6)	0.650 (16.5)	—	5 (0.14)
6	1.60 (40.6)	0.375 (9.5)	0.375 (9.5)	1.87 (47.5)	1.56 (39.6)	0.850 (21.6)	—	7 (0.20)
12	2.00 (50.8)	0.50 (12.7)	0.50 (12.7)	2.50 (63.5)	2.00 (50.8)	1.065 (27.1)	—	11 (0.31)
24	1.90 (48.3)	0.60 (15.2)	0.53 (13.5)	2.87 (72.9)	2.25 (57.2)	1.250 (31.8)	2.41 (61.2)	15 (0.43)
48	2.18 (55.4)	0.60 (15.2)	0.66 (16.8)	3.12 (79.2)	2.50 (63.5)	1.375 (34.9)	2.62 (66.5)	21 (0.60)

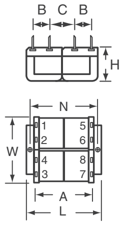

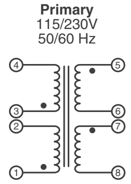

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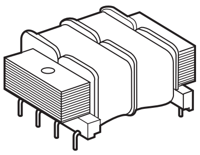

VA (Size)	Series VCT @ mA	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
2	10 @ 250	5 @ 0.5	595-1308-ND	11.49	8.70	7.58	LP-10-250
6	10 @ 600	5 @ 1.2	595-1309-ND	12.64	9.57	8.34	LP-10-600
12	10 @ 1200	5 @ 2.4	595-1310-ND	16.54	12.61	11.04	LP-10-1200
24	10 @ 2400	5 @ 4.8	595-1311-ND	18.55	14.19	12.45	LP-10-2400
48	10 @ 4800	5 @ 9.6	595-1312-ND	22.97	17.65	15.52	LP-10-4800
2	12.6 @ 200	6.3 @ 0.4	595-1313-ND	11.49	8.70	7.58	LP-12-200
6	12.6 @ 450	6.3 @ 0.9	595-1314-ND	12.64	9.57	8.34	LP-12-450
12	12.6 @ 900	6.3 @ 1.8	595-1315-ND	16.54	12.61	11.04	LP-12-900
24	12.6 @ 1900	6.3 @ 3.8	595-1316-ND	18.55	14.19	12.45	LP-12-1900
48	12.6 @ 3800	6.3 @ 7.6	595-1317-ND	22.97	17.65	15.52	LP-12-3800
2	16 @ 150	8 @ 0.3	595-1318-ND	11.49	8.70	7.58	LP-16-150
6	16 @ 350	8 @ 0.7	595-1319-ND	12.64	9.57	8.34	LP-16-350
12	16 @ 700	8 @ 1.4	595-1320-ND	16.54	12.61	11.04	LP-16-700
24	16 @ 1500	8 @ 3.0	595-1321-ND	18.55	14.19	12.45	LP-16-1500
48	16 @ 3000	8 @ 6.0	595-1322-ND	22.97	17.65	15.52	LP-16-3000
2	20 @ 125	10 @ 0.25	595-1323-ND	11.49	8.70	7.58	LP-20-125
12	20 @ 600	10 @ 1.2	595-1324-ND	16.54	12.61	11.04	LP-20-600
24	20 @ 1200	10 @ 2.4	595-1325-ND	18.55	14.19	12.45	LP-20-1200
48	20 @ 2400	10 @ 4.8	595-1326-ND	22.97	17.65	15.52	LP-20-2400

VA (Size)	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
2	24 @ 100	12 @ 0.2	595-1327-ND	11.49	8.70	7.58	LP-24-100
6	24 @ 250	12 @ 0.5	595-1328-ND	12.64	9.57	8.34	LP-24-250
12	24 @ 500	12 @ 1.0	595-1329-ND	16.54	12.61	11.04	LP-24-500
24	24 @ 1000	12 @ 2.0	595-1330-ND	18.55	14.19	12.45	LP-24-1000
48	24 @ 2000	12 @ 4.0	595-1331-ND	22.97	17.65	15.52	LP-24-2000
2	30 @ 85	15 @ 0.17	595-1332-ND	11.49	8.70	7.58	LP-30-85
6	30 @ 200	15 @ 0.4	595-1333-ND	12.64	9.57	8.34	LP-30-200
12	30 @ 400	15 @ 0.8	595-1334-ND	16.54	12.61	11.04	LP-30-400
24	30 @ 800	15 @ 1.6	595-1335-ND	18.55	14.19	12.45	LP-30-800
48	30 @ 1600	15 @ 3.2	595-1336-ND	22.97	17.65	15.52	LP-30-1600
2	34 @ 75	17 @ 0.15	595-1337-ND	11.49	8.70	7.58	LP-34-75
6	34 @ 170	17 @ 0.34	595-1338-ND	12.64	9.57	8.34	LP-34-170
12	34 @ 340	17 @ 0.68	595-1339-ND	16.54	12.61	11.04	LP-34-340
24	34 @ 700	17 @ 1.4	595-1340-ND	18.55	14.19	12.45	LP-34-700
48	34 @ 1400	17 @ 2.8	595-1341-ND	22.97	17.65	15.52	LP-34-1400
2	40 @ 60	20 @ 0.12	595-1342-ND	11.49	8.70	7.58	LP-40-60
6	40 @ 150	20 @ 0.3	595-1343-ND	12.64	9.57	8.34	LP-40-150
12	40 @ 300	20 @ 0.6	595-1344-ND	16.54	12.61	11.04	LP-40-300
24	40 @ 600	20 @ 1.2	595-1345-ND	18.55	14.19	12.45	LP-40-600
48	40 @ 1200	20 @ 2.4	595-1346-ND	22.97	17.65	15.52	LP-40-1200

Miniature Low Power Transformers

Signal's PC low power transformers are designed to operate between 50 and 500Hz without any degradation in output voltage.
Specifications: • Dielectric Strength: 1500VRMS Hipot • Insulation: Class B insulation (130°C)
Agency Standards: • UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070)

VA Size	Dimensions – Inch (mm) L	W	H	A (6-Pin)	A (8-Pin)	B	Wgt. oz. (kg)
1.2	1.37 (34.9)	1.12 (28.6)	1.18 (30.15)	0.312 (7.92)	0.200 (5.08)	1.030 (26.2)	3 (0.08)
4.4	1.62 (41.3)	1.25 (31.8)	1.37 (34.92)	0.400 (10.16)	0.250 (6.35)	1.130 (28.7)	5 (0.14)
10	1.87 (47.6)	1.43 (36.5)	1.62 (41.27)	0.400 (10.16)	0.250 (6.35)	1.330 (38.8)	9 (0.23)
24	1.62 (41.3)	2.25 (57.2)	1.37 (34.93)	0.400 (10.16)	0.250 (6.35)	2.130 (54.1)	12 (0.34)

TYPE PC
6 PINS

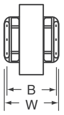

TYPE DPC
8 PINS

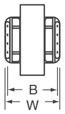

Single 115V Primary
Type PC 6 Pins

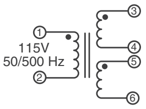

• Indicates like polarity

Dual 115/230V Primary
Type DPC 8 Pins

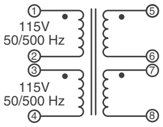

• Indicates like polarity

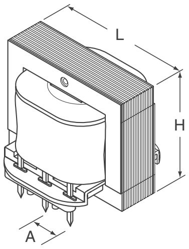

VA (Size)	Series VCT @ mA	Parallel V @ mA	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
Single Primary 115V (6 Pin) — Type PC							
1.2	12.6 @ 100	6.3 @ 200	595-1103-ND	8.08	6.11	5.33	PC-12-100
4.4	12.6 @ 350	6.3 @ 700	595-1104-ND	9.57	7.26	6.34	PC-12-350
10	12.6 @ 800	6.3 @ 1600	595-1105-ND	11.10	8.43	7.37	PC-12-800
24	12.6 @ 2000	6.3 @ 4000	595-1106-ND	15.46	11.72	10.23	PC-12-2000
1.2	16 @ 75	8 @ 150	595-1107-ND	8.08	6.11	5.33	PC-16-75
4.4	16 @ 260	8 @ 520	595-1108-ND	9.57	7.26	6.34	PC-16-260
10	16 @ 640	8 @ 1280	595-1109-ND	11.10	8.43	7.37	PC-16-640
24	16 @ 1500	8 @ 3000	595-1110-ND	15.46	11.72	10.23	PC-16-1500
1.2	20 @ 60	10 @ 120	595-1111-ND	8.08	6.11	5.33	PC-20-60
4.4	20 @ 220	10 @ 440	595-1112-ND	9.57	7.26	6.34	PC-20-220
10	20 @ 500	10 @ 1000	595-1113-ND	11.10	8.43	7.37	PC-20-500
24	20 @ 1200	10 @ 2400	595-1114-ND	15.46	11.72	10.23	PC-20-1200
1.2	24 @ 50	12 @ 100	595-1115-ND	8.08	6.11	5.33	PC-24-50
4.4	24 @ 180	12 @ 360	595-1116-ND	9.57	7.26	6.34	PC-24-180
10	24 @ 450	12 @ 900	595-1117-ND	11.10	8.43	7.37	PC-24-450
24	24 @ 1000	12 @ 2000	595-1118-ND	15.46	11.72	10.23	PC-24-1000
1.2	28 @ 40	14 @ 80	595-1119-ND	8.08	6.11	5.33	PC-28-40
4.4	28 @ 160	14 @ 320	595-1120-ND	9.57	7.26	6.34	PC-28-160
10	28 @ 360	14 @ 720	595-1121-ND	11.10	8.43	7.37	PC-28-360
24	28 @ 800	14 @ 1600	595-1122-ND	15.46	11.72	10.23	PC-28-800
1.2	34 @ 35	17 @ 70	595-1123-ND	8.08	6.11	5.33	PC-34-35
4.4	34 @ 125	17 @ 250	595-1124-ND	9.57	7.26	6.34	PC-34-125
10	34 @ 300	17 @ 600	595-1125-ND	11.10	8.43	7.37	PC-34-300
24	34 @ 700	17 @ 1400	595-1126-ND	15.46	11.72	10.23	PC-34-700
1.2	40 @ 30	20 @ 60	595-1127-ND	8.08	6.11	5.33	PC-40-30
4.4	40 @ 110	20 @ 220	595-1129-ND	9.57	7.26	6.34	PC-40-110
10	40 @ 250	20 @ 500	595-1130-ND	11.10	8.43	7.37	PC-40-250
24	40 @ 600	20 @ 1200	595-1128-ND	15.46	11.72	10.23	PC-40-600

VA (Size)	Series VCT @ mA	Parallel V @ mA	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
Dual Primary 115V / 230V (8 Pin) — Type DPC							
1.2	12.6 @ 100	6.3 @ 200	595-1131-ND	9.35	7.07	6.15	DPC-12-100
4.4	12.6 @ 350	6.3 @ 700	595-1132-ND	10.99	8.33	7.26	DPC-12-350
10	12.6 @ 800	6.3 @ 1600	595-1133-ND	12.88	9.77	8.53	DPC-12-800
24	12.6 @ 2000	6.3 @ 4000	595-1134-ND	16.95	12.83	11.19	DPC-12-2000
1.2	16 @ 75	8 @ 150	595-1135-ND	9.35	7.07	6.15	DPC-16-75
4.4	16 @ 260	8 @ 520	595-1136-ND	10.99	8.33	7.26	DPC-16-260
10	16 @ 640	8 @ 1280	595-1137-ND	12.88	9.77	8.53	DPC-16-640
24	16 @ 1500	8 @ 3000	595-1138-ND	16.95	12.83	11.19	DPC-16-1500
1.2	20 @ 60	10 @ 120	595-1139-ND	9.35	7.07	6.15	DPC-20-60
4.4	20 @ 220	10 @ 440	595-1140-ND	10.99	8.33	7.26	DPC-20-220
10	20 @ 500	10 @ 1000	595-1141-ND	12.88	9.77	8.53	DPC-20-500
24	20 @ 1200	10 @ 2400	595-1142-ND	16.95	12.83	11.19	DPC-20-1200
1.2	24 @ 50	12 @ 100	595-1143-ND	9.35	7.07	6.15	DPC-24-50
4.4	24 @ 180	12 @ 360	595-1144-ND	10.99	8.33	7.26	DPC-24-180
10	24 @ 450	12 @ 900	595-1145-ND	12.88	9.77	8.53	DPC-24-450
24	24 @ 1000	12 @ 2000	595-1146-ND	16.95	12.83	11.19	DPC-24-1000
1.2	28 @ 40	14 @ 80	595-1147-ND	9.35	7.07	6.15	DPC-28-40
4.4	28 @ 160	14 @ 320	595-1148-ND	10.99	8.33	7.26	DPC-28-160
10	28 @ 360	14 @ 720	595-1149-ND	12.88	9.77	8.53	DPC-28-360
24	28 @ 800	14 @ 1600	595-1150-ND	16.95	12.83	11.19	DPC-28-800
1.2	34 @ 35	17 @ 70	595-1151-ND	9.35	7.07	6.15	DPC-34-35
4.4	34 @ 125	17 @ 250	595-1152-ND	10.99	8.33	7.26	DPC-34-125
10	34 @ 300	17 @ 600	595-1153-ND	12.88	9.77	8.53	DPC-34-300
24	34 @ 700	17 @ 1400	595-1154-ND	16.95	12.83	11.19	DPC-34-700
1.2	40 @ 30	20 @ 60	595-1155-ND	9.35	7.07	6.15	DPC-40-30
4.4	40 @ 110	20 @ 220	595-1156-ND	10.99	8.33	7.26	DPC-40-110
10	40 @ 250	20 @ 500	595-1157-ND	12.88	9.77	8.53	DPC-40-250
24	40 @ 600	20 @ 1200	595-1158-ND	16.95	12.83	11.19	DPC-40-600

Signal Transformer Split/Tran™ Low Power Transformers

Split Bobbin with High Isolation

Signal's ST and DST transformers use a split bobbin that provides superior islolation and low capacitive coupling.

Specifications: • **Dielectric Strength:** 2500VRMS Hipot • **Insulation:** Class B insulation (130°C)
Agency Standards: • UL 1446 (E66312) • UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070)

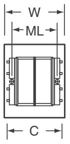

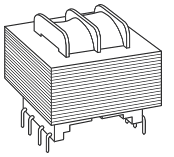

Size	VA	Dimensions – Inch (mm) L	W	H	ML	A	B	C	Optional Mtg. Screw & Nut	Wgt. lbs. (kg)
2	1.1	1.37 (34.9)	1.12 (28.6)	0.97 (24.6)	—	0.250 (6.4)	0.250 (6.4)	1.200 (30.5)	None	0.17 (0.08)
3	2.4	1.37 (34.9)	1.12 (28.6)	1.21 (30.8)	—	0.250 (6.4)	0.250 (6.4)	1.200 (30.5)		0.25 (0.11)
4	6	1.62 (41.3)	1.31 (33.3)	1.31 (33.3)	1.06 (26.9)	0.250 (6.4)	0.350 (8.9)	1.250 (32.5)	4-40 x 1.37 Nylon; (4-40 x 34.9mm)	0.44 (0.20)
5	12	1.91 (48.4)	1.59 (40.4)	1.45 (36.9)	1.25 (31.8)	0.300 (7.6)	0.400 (10.2)	1.410 (35.8)		0.70 (0.32)
6	20	2.25 (57.2)	1.88 (47.8)	1.45 (36.9)	1.50 (38.1)	0.300 (7.6)	0.400 (10.2)	1.600 (40.6)		0.80 (0.36)
7	36	2.62 (66.7)	2.18 (55.5)	1.59 (40.4)	†	0.400 (10.2)	0.400 (10.2)	1.850 (47.0)	†	1.1 (0.50)

† Size 7 has 4 mounting holes on 2.18 x 1.75 centers for a #6 screw. Need not be nylon.

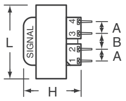

NOTE: Pins 2 & 3 omitted on single primary versions

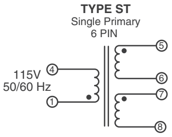

• Indicates like polarity

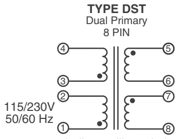

• Indicates like polarity

Size	VA	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
Single Primary 115V (6 Pin) — Type ST								
2	1.1	12.6 @ 0.09	6.3 @ 0.18	595-1159-ND	8.53	6.44	5.61	ST-2-12
3	2.4	12.6 @ 0.2	6.3 @ 0.4	595-1160-ND	8.61	6.51	5.67	ST-3-12
4	6	12.6 @ 0.5	6.3 @ 1.0	595-1161-ND	9.96	7.54	6.58	ST-4-12
5	12	12.6 @ 1.0	6.3 @ 2.0	595-1162-ND	11.31	8.58	7.48	ST-5-12
6	20	12.6 @ 1.6	6.3 @ 3.2	595-1163-ND	13.75	10.47	9.15	ST-6-12
2	1.1	16 @ 0.07	8 @ 0.14	595-1164-ND	8.53	6.44	5.61	ST-2-16
3	2.4	16 @ 0.15	8 @ 0.3	595-1165-ND	8.61	6.51	5.67	ST-3-16
4	6	16 @ 0.4	8 @ 0.8	595-1166-ND	9.96	7.54	6.58	ST-4-16
5	12	16 @ 0.8	8 @ 1.6	595-1167-ND	11.31	8.58	7.48	ST-5-16
6	20	16 @ 1.25	8 @ 2.5	595-1168-ND	13.75	10.47	9.15	ST-6-16
7	36	16 @ 2.25	8 @ 4.5	595-1169-ND	17.00	13.02	11.42	ST-7-16
2	1.1	20 @ 0.055	10 @ 0.11	595-1170-ND	8.53	6.44	5.61	ST-2-20
3	2.4	20 @ 0.12	10 @ 0.24	595-1171-ND	8.61	6.51	5.67	ST-3-20
4	6	20 @ 0.3	10 @ 0.6	595-1172-ND	9.96	7.54	6.58	ST-4-20
5	12	20 @ 0.6	10 @ 1.2	595-1173-ND	11.31	8.58	7.48	ST-5-20
6	20	20 @ 1.0	10 @ 2.0	595-1174-ND	13.75	10.47	9.15	ST-6-20
7	36	20 @ 1.8	10 @ 3.6	595-1175-ND	17.00	13.02	11.42	ST-7-20
2	1.1	24 @ 0.045	12 @ 0.09	595-1176-ND	8.53	6.44	5.61	ST-2-24
3	2.4	24 @ 0.1	12 @ 0.2	595-1177-ND	8.61	6.51	5.67	ST-3-24
4	6	24 @ 0.25	12 @ 0.5	595-1178-ND	9.96	7.54	6.58	ST-4-24
5	12	24 @ 0.5	12 @ 1.0	595-1179-ND	11.31	8.58	7.48	ST-5-24
6	20	24 @ 0.8	12 @ 1.6	595-1180-ND	13.75	10.47	9.15	ST-6-24
7	36	24 @ 1.5	12 @ 3.0	595-1181-ND	17.00	13.02	11.42	ST-7-24
2	1.1	28 @ 0.04	14 @ 0.08	595-1182-ND	8.53	6.44	5.61	ST-2-28
3	2.4	28 @ 0.085	14 @ 0.17	595-1183-ND	8.61	6.51	5.67	ST-3-28
4	6	28 @ 0.2	14 @ 0.4	595-1184-ND	9.96	7.54	6.58	ST-4-28
5	12	28 @ 0.42	14 @ 0.84	595-1185-ND	11.31	8.58	7.48	ST-5-28
6	20	28 @ 0.7	14 @ 1.4	595-1186-ND	13.75	10.47	9.15	ST-6-28
7	36	28 @ 1.3	14 @ 2.6	595-1187-ND	17.00	13.02	11.42	ST-7-28
2	1.1	36 @ 0.03	18 @ 0.06	595-1188-ND	8.53	6.44	5.61	ST-2-36
3	2.4	36 @ 0.065	18 @ 0.13	595-1189-ND	8.61	6.51	5.67	ST-3-36
4	6	36 @ 0.17	18 @ 0.34	595-1190-ND	9.96	7.54	6.58	ST-4-36
5	12	36 @ 0.35	18 @ 0.7	595-1191-ND	11.31	8.58	7.48	ST-5-36
6	20	36 @ 0.55	18 @ 1.1	595-1192-ND	13.75	10.47	9.15	ST-6-36
7	36	36 @ 1.0	18 @ 2.0	595-1193-ND	17.00	13.02	11.42	ST-7-36

Size	VA	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
Dual Primary 115V / 230V (8 Pin) — Type DST								
2	1.1	12.6 @ 0.09	6.3 @ 0.18	595-1194-ND	9.91	7.48	6.50	DST-2-12
3	2.4	12.6 @ 0.2	6.3 @ 0.4	595-1195-ND	10.05	7.58	6.60	DST-3-12
4	6	12.6 @ 0.5	6.3 @ 1.0	595-1196-ND	10.96	8.30	7.23	DST-4-12
5	12	12.6 @ 1.0	6.3 @ 2.0	595-1197-ND	12.63	9.56	8.34	DST-5-12
6	20	12.6 @ 1.6	6.3 @ 3.2	595-1198-ND	15.58	11.84	10.34	DST-6-12
2	1.1	16 @ 0.07	8 @ 0.14	595-1199-ND	9.91	7.48	6.50	DST-2-16
3	2.4	16 @ 0.15	8 @ 0.3	595-1200-ND	10.05	7.58	6.60	DST-3-16
4	6	16 @ 0.4	8 @ 0.8	595-1201-ND	10.96	8.30	7.23	DST-4-16
5	12	16 @ 0.8	8 @ 1.6	595-1202-ND	12.63	9.56	8.34	DST-5-16
6	20	16 @ 1.25	8 @ 2.5	595-1203-ND	15.58	11.84	10.34	DST-6-16
7	36	16 @ 2.25	8 @ 4.5	595-1204-ND	18.94	14.47	12.68	DST-7-16
2	1.1	20 @ 0.055	10 @ 0.11	595-1205-ND	9.91	7.48	6.50	DST-2-20
3	2.4	20 @ 0.12	10 @ 0.24	595-1206-ND	10.05	7.58	6.60	DST-3-20
4	6	20 @ 0.3	10 @ 0.6	595-1207-ND	10.96	8.30	7.23	DST-4-20
5	12	20 @ 0.6	10 @ 1.2	595-1208-ND	12.63	9.56	8.34	DST-5-20
6	20	20 @ 1.0	10 @ 2.0	595-1209-ND	15.58	11.84	10.34	DST-6-20
7	36	20 @ 1.8	10 @ 3.6	595-1210-ND	18.94	14.47	12.68	DST-7-20
2	1.1	24 @ 0.045	12 @ 0.09	595-1211-ND	9.91	7.48	6.50	DST-2-24
3	2.4	24 @ 0.1	12 @ 0.2	595-1212-ND	10.05	7.58	6.60	DST-3-24
4	6	24 @ 0.25	12 @ 0.5	595-1213-ND	10.96	8.30	7.23	DST-4-24
5	12	24 @ 0.5	12 @ 1.0	595-1214-ND	12.63	9.56	8.34	DST-5-24
6	20	24 @ 0.8	12 @ 1.6	595-1215-ND	15.58	11.84	10.34	DST-6-24
7	36	24 @ 1.5	12 @ 3.0	595-1216-ND	18.94	14.47	12.68	DST-7-24
2	1.1	28 @ 0.04	14 @ 0.08	595-1217-ND	9.91	7.48	6.50	DST-2-28
3	2.4	28 @ 0.085	14 @ 0.17	595-1218-ND	10.05	7.58	6.60	DST-3-28
4	6	28 @ 0.2	14 @ 0.4	595-1219-ND	10.96	8.30	7.23	DST-4-28
5	12	28 @ 0.42	14 @ 0.84	595-1220-ND	12.63	9.56	8.34	DST-5-28
6	20	28 @ 0.7	14 @ 1.4	595-1221-ND	15.58	11.84	10.34	DST-6-28
7	36	28 @ 1.3	14 @ 2.6	595-1222-ND	18.94	14.47	12.68	DST-7-28
2	1.1	36 @ 0.03	18 @ 0.06	595-1223-ND	9.91	7.48	6.50	DST-2-36
3	2.4	36 @ 0.065	18 @ 0.13	595-1224-ND	10.05	7.58	6.60	DST-3-36
4	6	36 @ 0.17	18 @ 0.34	595-1225-ND	10.96	8.30	7.23	DST-4-36
5	12	36 @ 0.35	18 @ 0.7	595-1226-ND	12.63	9.56	8.34	DST-5-36
6	20	36 @ 0.55	18 @ 1.1	595-1227-ND	15.58	11.84	10.34	DST-6-36
7	36	36 @ 1.0	18 @ 2.0	595-1228-ND	18.94	14.47	12.68	DST-7-36

All-4-One™ International Transformers Chassis Mount

Specifications:
• **Dielectric Strength:** 4000VRMS Hipot • **Primaries:** Dual primaries (115/230V — 50/60Hz) • **Leakage:** Current meets UL 60601-1, IEC/EN 60601-1 • **Insulation:** Class F insulation (155°C) • **Flammability Rating:** Bobbin and shroud material meet UL 94V0

Agency Standards: • UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070) • VDE certified to VDE 0805 / EN 60950 (File #1448)

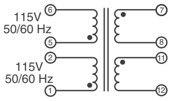

• Indicates like polarity

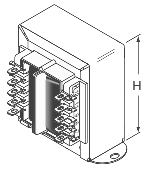

(Mounting Style C Shown)

VA Size	Mtg. Style	Dimensions – Inch (mm) L	W	H	C	ML	Terminals	Mtg. Screw	Wgt. lbs. (kg)
25	C	2.81 (71.4)	2.14 (54.4)	2.31 (58.7)	0.31 (7.9)	2.37 (60.3)	0.187 (4.75)	#6	1.25 (0.57)
43	C	3.12 (79.4)	2.14 (54.4)	2.68 (68.2)	0.31 (7.9)	2.81 (71.4)	0.187 (4.75)	#6	1.6 (0.73)
80	B	2.50 (63.5)	2.52 (64.3)	3.00 (76.2)	0.31 (7.9)	2.00 (50.8)	0.187 (4.75)	#6	2.8 (1.27)
130	B	2.81 (71.4)	3.00 (76.2)	3.37 (85.7)	0.37 (9.5)	2.25 (57.2)	0.25 (6.35)	#8	4.1 (1.86)
175	B	3.12 (79.4)	3.14 (79.7)	3.75 (95.3)	0.37 (9.5)	2.50 (63.5)	0.25 (6.35)	#8	5.5 (2.49)

MOUNTING STYLE B
BOTTOM VIEW

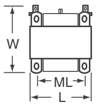

MOUNTING STYLE C
BOTTOM VIEW

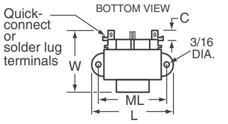

VA (Size)	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
43	12.6 @ 3.4	6.3 @ 6.8	595-1274-ND	22.17	16.88	14.76	A41-43-12
80	12.6 @ 6.3	6.3 @ 12.6	595-1275-ND	30.69	23.46	20.56	A41-80-12
130	12.6 @ 10.3	6.3 @ 20.6	595-1276-ND	41.26	31.56	27.67	A41-130-12
175	12.6 @ 14.0	6.3 @ 28.0	595-1277-ND	48.15	37.01	32.55	A41-175-12
25	16 @ 1.6	8 @ 3.2	595-1278-ND	17.00	12.89	11.25	A41-25-16
43	16 @ 2.7	8 @ 5.4	595-1279-ND	22.17	16.88	14.76	A41-43-16
80	16 @ 5.0	8 @ 10.0	595-1280-ND	30.69	23.46	20.56	A41-80-16
130	16 @ 8.1	8 @ 16.2	595-1281-ND	41.16	31.48	27.61	A41-130-16
175	16 @ 11.0	8 @ 22.0	595-1282-ND	48.15	37.01	32.55	A41-175-16
25	20 @ 1.25	10 @ 2.5	595-1283-ND	17.00	12.89	11.25	A41-25-20
43	20 @ 2.2	10 @ 4.4	595-1284-ND	22.17	16.88	14.76	A41-43-20
80	20 @ 4.0	10 @ 8.0	595-1285-ND	30.69	23.46	20.56	A41-80-20
130	20 @ 6.5	10 @ 13.0	595-1286-ND	41.26	31.56	27.67	A41-130-20
175	20 @ 8.8	10 @ 17.6	595-1287-ND	48.15	37.01	32.55	A41-175-20
25	24 @ 1.0	12 @ 2.0	595-1288-ND	17.00	12.89	11.25	A41-25-24
43	24 @ 1.8	12 @ 3.6	595-1289-ND	22.17	16.88	14.76	A41-43-24
80	24 @ 3.3	12 @ 6.6	595-1290-ND	30.69	23.46	20.56	A41-80-24

VA (Size)	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
130	24 @ 5.4	12 @ 10.8	595-1291-ND	41.26	31.56	27.67	A41-130-24
175	24 @ 7.3	12 @ 14.6	595-1292-ND	48.15	37.01	32.55	A41-175-24
25	28 @ 0.9	14 @ 1.86	595-1293-ND	17.00	12.89	11.25	A41-25-28
43	28 @ 1.5	14 @ 3.0	595-1294-ND	22.17	16.88	14.76	A41-43-28
80	28 @ 2.8	14 @ 5.6	595-1295-ND	30.69	23.46	20.56	A41-80-28
130	28 @ 4.6	14 @ 9.2	595-1296-ND	41.26	31.56	27.67	A41-130-28
175	28 @ 6.25	14 @ 12.5	595-1297-ND	48.15	37.01	32.55	A41-175-28
25	36 @ 0.7	18 @ 1.4	595-1298-ND	17.00	12.89	11.25	A41-25-36
43	36 @ 1.2	18 @ 2.4	595-1299-ND	22.17	16.88	14.76	A41-43-36
80	36 @ 2.2	18 @ 4.4	595-1300-ND	30.69	23.46	20.56	A41-80-36
130	36 @ 3.6	18 @ 7.2	595-1301-ND	41.26	31.56	27.67	A41-130-36
175	36 @ 4.8	18 @ 9.6	595-1302-ND	48.15	37.01	32.55	A41-175-36
25	230 @ 0.11	115 @ 0.22	595-1303-ND	17.00	12.89	11.25	A41-25-230
43	230 @ 0.19	115 @ 0.38	595-1304-ND	22.17	16.88	14.76	A41-43-230
80	230 @ 0.35	115 @ 0.7	595-1305-ND	30.69	23.46	20.56	A41-80-230
130	230 @ 0.57	115 @ 1.14	595-1306-ND	41.26	31.56	27.67	A41-130-230
175	230 @ 0.76	115 @ 1.52	595-1307-ND	48.15	37.01	32.55	A41-175-230

TEXAS INSTRUMENTS

Plug-In Power Modules

Isolated DC-DC Converters

Features:
- State-of-the-art in board-mounted converters
- High frequency technology with surface mount construction forms high efficiency with unparalleled flexibility
- Designed for telecommunications, industrial, computer and other distributed power applications that require input-to-output isolation
- Very few, if any external components required to make these converters perform
- Makes design-in a snap, saving valuable board space during TI/Plug in Power Solutions package designs
- Plug-in power solutions are designed to work from industry-standard DC bus voltages
- The Output Current of the converter should match the maximum current need of your application
- Choose an adjustable or fixed Output Voltage that meets your requirements
- Vertical mounting uses the smallest footprint and surface mount and horizontal through-hole are available in most product series

Input Voltage Range (VDC)	Output Voltage @ Maximum Current (VDC @ A)			Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
	Output #1	Output #2	Output #3					1	25	100	
					Multiple Output						
38.0 ~ 75.0	5.0 @ 1.2	-5.0 @ 1.2	—	6.0	DIP	Horizontal	PT4311A-ND	27.54	25.71	23.87	PT4311A
38.0 ~ 75.0	5.0 @ 1.2	-5.0 @ 1.2	—	6.0	SMD	Horizontal	296-19982-ND◆	27.54	25.71	23.87	PT4311C
38.0 ~ 75.0	12.0 @ 0.5	-12.0 @ 0.5	—	6.0	SMD	Horizontal	296-19983-ND◆	27.54	25.71	23.87	PT4313C
38.0 ~ 75.0	24.0 @ 0.25	-24.0 @ 0.25	—	6.0	DIP	Horizontal	296-19984-ND◆	27.54	25.71	23.87	PT4314A
38.0 ~ 75.0	24.0 @ 0.25	-24.0 @ 0.25	—	6.0	SMD	Horizontal	296-19985-ND◆	27.54	25.71	23.87	PT4314C
36.0 ~ 75.0	±8.0 @ 1.25	±3.75 @ 1.75	—	35.0	SMD	Horizontal	296-20026-ND◆	91.86	85.74	79.62	PT4701C
36.0 ~ 75.0	±8.0 @ 1.25	±3.75 @ 1.75	—	35.0	SIP	Vertical	296-20027-ND◆	91.86	85.74	79.62	PT4701N
36.0 ~ 75.0	15.0 @ 1.25	3.3 @ 3.0	1.5 @ 2.0	25.0	SMD	Horizontal	296-20028-ND◆	52.22	48.74	45.26	PT4801C
36.0 ~ 75.0	3.3 @ 8.0	2.5 @ 6.0	1.5 @ 6.0	35.0	SIP	Horizontal	296-20029-ND◆	95.12	88.78	82.44	PT4821A
36.0 ~ 75.0	3.3 @ 8.0	2.5 @ 6.0	1.5 @ 6.0	35.0	SMD	Horizontal	296-20030-ND◆	95.12	88.78	82.44	PT4821C
36.0 ~ 75.0	3.3 @ 8.0	2.5 @ 6.0	1.5 @ 6.0	35.0	SIP	Vertical	296-20031-ND◆	95.12	88.78	82.44	PT4821N
36.0 ~ 75.0	3.3 @ 8.0	1.8 @ 6.0	1.5 @ 6.0	35.0	SIP	Horizontal	296-20032-ND◆	95.12	88.78	82.44	PT4822A
36.0 ~ 75.0	3.3 @ 8.0	1.8 @ 6.0	1.5 @ 6.0	35.0	SMD	Horizontal	296-20033-ND◆	95.12	88.78	82.44	PT4822C
36.0 ~ 75.0	3.3 @ 8.0	1.8 @ 6.0	1.5 @ 6.0	35.0	SIP	Vertical	296-20034-ND◆	95.12	88.78	82.44	PT4822N
36.0 ~ 75.0	3.3 @ 8.0	2.5 @ 6.0	1.2 @ 6.0	35.0	SIP	Horizontal	296-20035-ND◆	95.12	88.78	82.44	PT4823A
36.0 ~ 75.0	3.3 @ 8.0	2.5 @ 6.0	1.2 @ 6.0	35.0	SMD	Horizontal	296-20036-ND◆	95.12	88.78	82.44	PT4823C
36.0 ~ 75.0	3.3 @ 8.0	2.5 @ 6.0	1.2 @ 6.0	35.0	SIP	Vertical	296-20037-ND◆	95.12	88.78	82.44	PT4823N
36.0 ~ 75.0	3.3 @ 8.0	1.8 @ 6.0	1.2 @ 6.0	35.0	SIP	Horizontal	296-20038-ND◆	95.12	88.78	82.44	PT4824A
36.0 ~ 75.0	3.3 @ 8.0	1.8 @ 6.0	1.2 @ 6.0	35.0	SMD	Horizontal	296-20039-ND◆	95.12	88.78	82.44	PT4824C
36.0 ~ 75.0	3.3 @ 8.0	1.8 @ 6.0	1.2 @ 6.0	35.0	SIP	Vertical	296-20040-ND◆	95.12	88.78	82.44	PT4824N
36.0 ~ 75.0	3.3 @ 8.0	1.5 @ 6.0	1.2 @ 6.0	35.0	SIP	Horizontal	296-20041-ND◆	95.12	88.78	82.44	PT4825A
36.0 ~ 75.0	3.3 @ 8.0	1.5 @ 6.0	1.2 @ 6.0	35.0	SMD	Horizontal	296-20042-ND◆	95.12	88.78	82.44	PT4825C
36.0 ~ 75.0	3.3 @ 8.0	1.5 @ 6.0	1.2 @ 6.0	35.0	SIP	Vertical	296-20043-ND◆	95.12	88.78	82.44	PT4825N
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	1.8 @ 5.5	35.0	SIP	Horizontal	296-20044-ND◆	95.12	88.78	82.44	PT4826A
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	1.8 @ 5.5	35.0	SMD	Horizontal	296-20045-ND◆	95.12	88.78	82.44	PT4826C
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	1.8 @ 5.5	35.0	SIP	Vertical	296-20046-ND◆	95.12	88.78	82.44	PT4826N
36.0 ~ 75.0	3.3 @ 8.0	2.5 @ 6.0	1.8 @ 6.0	35.0	SIP	Horizontal	296-20047-ND◆	95.12	88.78	82.44	PT4827A
36.0 ~ 75.0	5.0 @ 5.0	2.5 @ 5.5	1.5 @ 5.5	35.0	SIP	Horizontal	296-20048-ND◆	95.12	88.78	82.44	PT4828A
36.0 ~ 75.0	5.0 @ 5.0	2.5 @ 5.5	1.5 @ 5.5	35.0	SMD	Horizontal	296-20049-ND◆	95.12	88.78	82.44	PT4828C
36.0 ~ 75.0	5.0 @ 5.0	2.5 @ 5.5	1.5 @ 5.5	35.0	SIP	Vertical	296-20050-ND◆	95.12	88.78	82.44	PT4828N
36.0 ~ 75.0	5.0 @ 5.0	1.8 @ 5.5	1.5 @ 5.5	35.0	SIP	Horizontal	296-20051-ND◆	95.12	88.78	82.44	PT4829A
36.0 ~ 75.0	5.0 @ 5.0	1.8 @ 5.5	1.5 @ 5.5	35.0	SMD	Horizontal	296-20052-ND◆	95.12	88.78	82.44	PT4829C
36.0 ~ 75.0	5.0 @ 5.0	1.8 @ 5.5	1.5 @ 5.5	35.0	SIP	Vertical	296-20053-ND◆	95.12	88.78	82.44	PT4829N
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	1.5 @ 5.5	35.0	SIP	Horizontal	296-20054-ND◆	95.12	88.78	82.44	PT4831A
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	1.5 @ 5.5	35.0	SMD	Horizontal	296-20055-ND◆	95.12	88.78	82.44	PT4831C
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	1.5 @ 5.5	35.0	SIP	Vertical	296-20056-ND◆	95.12	88.78	82.44	PT4831N
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	2.5 @ 5.5	35.0	SIP	Horizontal	296-20057-ND◆	95.12	88.78	82.44	PT4832A
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	2.5 @ 5.5	35.0	SMD	Horizontal	296-20058-ND◆	95.12	88.78	82.44	PT4832C
36.0 ~ 75.0	5.0 @ 5.0	3.3 @ 5.5	2.5 @ 5.5	35.0	SIP	Vertical	296-20059-ND◆	95.12	88.78	82.44	PT4832N
36.0 ~ 75.0	3.3 @ 8.0	2.0 @ 6.0	1.5 @ 6.0	35.0	SIP	Horizontal	296-20060-ND◆	95.12	88.78	82.44	PT4833A
36.0 ~ 75.0	3.3 @ 8.0	2.0 @ 6.0	1.5 @ 6.0	35.0	SMD	Horizontal	296-20061-ND◆	95.12	88.78	82.44	PT4833C
36.0 ~ 75.0	3.3 @ 8.0	2.0 @ 6.0	1.5 @ 6.0	35.0	SIP	Vertical	296-20062-ND◆	95.12	88.78	82.44	PT4833N
36.0 ~ 75.0	3.3 @ 15.0	2.5 @ 10.0	1.5 @ 10.0	49.5	SIP	Horizontal	296-20063-ND◆	120.05	112.05	104.04	PT4851A
36.0 ~ 75.0	3.3 @ 15.0	2.5 @ 10.0	1.5 @ 10.0	49.5	SMD	Horizontal	296-20064-ND◆	120.05	112.05	104.04	PT4851C
36.0 ~ 75.0	3.3 @ 15.0	2.5 @ 10.0	1.5 @ 10.0	49.5	SIP	Vertical	296-20065-ND◆	120.05	112.05	104.04	PT4851N
36.0 ~ 75.0	3.3 @ 15.0	1.8 @ 10.0	1.5 @ 10.0	49.5	SIP	Horizontal	296-20066-ND◆	141.72	132.28	122.83	PT4852A
36.0 ~ 75.0	3.3 @ 15.0	1.8 @ 10.0	1.5 @ 10.0	49.5	SMD	Horizontal	296-20067-ND◆	141.72	132.28	122.83	PT4852C
36.0 ~ 75.0	3.3 @ 15.0	1.8 @ 10.0	1.5 @ 10.0	49.5	SIP	Vertical	296-20068-ND◆	141.72	132.28	122.83	PT4852N
36.0 ~ 75.0	3.3 @ 15.0	2.5 @ 10.0	1.2 @ 10.0	49.5	SIP	Horizontal	296-20069-ND◆	141.72	132.28	122.83	PT4853A
36.0 ~ 75.0	3.3 @ 15.0	2.5 @ 10.0	1.2 @ 10.0	49.5	SMD	Horizontal	296-20070-ND◆	141.72	132.28	122.83	PT4853C
36.0 ~ 75.0	3.3 @ 15.0	2.5 @ 10.0	1.2 @ 10.0	49.5	SIP	Vertical	296-20071-ND◆	141.72	132.28	122.83	PT4853N
36.0 ~ 75.0	3.3 @ 15.0	1.8 @ 10.0	1.2 @ 10.0	49.5	SIP	Horizontal	296-20072-ND◆	141.72	132.28	122.83	PT4854A
36.0 ~ 75.0	3.3 @ 15.0	1.8 @ 10.0	1.2 @ 10.0	49.5	SMD	Horizontal	296-20073-ND◆	141.72	132.28	122.83	PT4854C
36.0 ~ 75.0	3.3 @ 15.0	1.8 @ 10.0	1.2 @ 10.0	49.5	SIP	Vertical	296-20074-ND◆	141.72	132.28	122.83	PT4854N
36.0 ~ 75.0	3.3 @ 15.0	1.5 @ 10.0	1.2 @ 10.0	49.5	SIP	Horizontal	296-20075-ND◆	141.72	132.28	122.83	PT4855A
36.0 ~ 75.0	3.3 @ 15.0	1.5 @ 10.0	1.2 @ 10.0	49.5	SMD	Horizontal	296-20076-ND◆	141.72	132.28	122.83	PT4855C
36.0 ~ 75.0	5.0 @ 10.0	3.3 @ 10.0	1.5 @ 10.0	50.0	SIP	Horizontal	296-20077-ND◆	141.72	132.28	122.83	PT4856A
36.0 ~ 75.0	5.0 @ 10.0	3.3 @ 10.0	1.5 @ 10.0	50.0	SMD	Horizontal	296-20078-ND◆	141.72	132.28	122.83	PT4856C
36.0 ~ 75.0	5.0 @ 10.0	3.3 @ 10.0	1.5 @ 10.0	50.0	SIP	Vertical	296-20079-ND◆	141.72	132.28	122.83	PT4856N
36.0 ~ 75.0	3.3 @ 6.0	1.2 @ 7.0	—	28.0	DIP	Horizontal	296-20306-ND◆	64.50	60.20	55.90	PTB48500AAH
36.0 ~ 75.0	3.3 @ 6.0	1.2 @ 7.0	—	28.0	SMD	Horizontal	296-20307-ND	64.50	60.20	55.90	PTB48500AAS
36.0 ~ 75.0	3.3 @ 6.0	1.2 @ 7.0	—	28.0	SMD	Horizontal	296-20308-ND◆	64.50	60.20	55.90	PTB48500AAZ
36.0 ~ 75.0	3.3 @ 6.0	1.2 @ 10.5	—	32.4	DIP	Horizontal	296-20309-ND◆	67.50	63.00	58.50	PTB48501AAH
36.0 ~ 75.0	3.3 @ 6.0	1.2 @ 10.5	—	32.4	SMD	Horizontal	296-20310-ND	67.50	63.00	58.50	PTB48501AAS
36.0 ~ 75.0	3.3 @ 6.0	1.2 @ 10.5	—	32.4	SMD	Horizontal	296-20311-ND◆	67.50	63.00	58.50	PTB48501AAZ
36.0 ~ 75.0	3.3 @ 10.0	1.2 @ 13.0	—	45.0	DIP	Horizontal	296-20312-ND◆	73.50	68.60	63.70	PTB48502AAH
36.0 ~ 75.0	3.3 @ 10.0	1.2 @ 13.0	—	45.0	SMD	Horizontal	296-20313-ND◆	73.50	68.60	63.70	PTB48502AAZ
36.0 ~ 75.0	5.0 @ 6.5	-5.0 @ 6.5	—	65.0	DIP	Horizontal	296-20314-ND◆	57.00	53.20	49.40	PTB48510AAH
36.0 ~ 75.0	5.0 @ 6.5	-5.0 @ 6.5	—	65.0	SMD	Horizontal	296-20315-ND◆	57.00	53.20	49.40	PTB48510AAS
36.0 ~ 75.0	5.0 @ 6.5	-5.0 @ 6.5	—	65.0	SMD	Horizontal	296-20316-ND◆	57.00	53.20	49.40	PTB48510AAZ
36.0 ~ 75.0	12.0 @ 3.0	-12.0 @ 3.0	—	72.0	SMD	Horizontal	296-20317-ND◆	57.00	53.20	49.40	PTB48510BAZ
36.0 ~ 75.0	15.0 @ 2.2	-15.0 @ 2.2	—	66.0	DIP	Horizontal	296-20318-ND◆	57.00	53.20	49.40	PTB48510CAH
36.0 ~ 75.0	15.0 @ 2.2	-15.0 @ 2.2	—	66.0	SMD	Horizontal	296-20319-ND	57.00	53.20	49.40	PTB48510CAS
36.0 ~ 75.0	15.0 @ 2.2	-15.0 @ 2.2	—	66.0	SMD	Horizontal	296-20320-ND◆	57.00	53.20	49.40	PTB48510CAZ
36.0 ~ 75.0	5.0 @ 6.5	-5.0 @ 6.5	—	65.0	DIP	Horizontal	296-20321-ND◆	57.00	53.20	49.40	PTB48511AAH
36.0 ~ 75.0	5.0 @ 6.5	-5.0 @ 6.5	—	65.0	SMD	Horizontal	296-20322-ND	57.00	53.20	49.40	PTB48511AAS
36.0 ~ 75.0	5.0 @ 6.5	-5.0 @ 6.5	—	65.0	SMD	Horizontal	296-20323-ND◆	57.00	53.20	49.40	PTB48511AAZ
36.0 ~ 75.0	12.0 @ 3.0	-12.0 @ 3.0	—	72.0	SMD	Horizontal	296-20324-ND◆	57.00	53.20	49.40	PTB48511BAZ
36.0 ~ 75.0	5.0 @ 3.0	-5.0 @ 3.0	—	30.0	DIP	Horizontal	296-20347-ND	45.00	42.00	39.00	PTB48580AAH
36.0 ~ 75.0	5.0 @ 3.0	-5.0 @ 3.0	—	30.0	SMD	Horizontal	296-20348-ND	45.00	42.00	39.00	PTB48580AAS
36.0 ~ 75.0	5.0 @ 3.0	-5.0 @ 3.0	—	30.0	SMD	Horizontal	296-20349-ND◆	45.00	42.00	39.00	PTB48580AAZ
36.0 ~ 75.0	12.0 @ 1.25	-12.0@ 1.25	—	30.0	DIP	Horizontal	296-20350-ND	45.00	42.00	39.00	PTB48580BAH
36.0 ~ 75.0	12.0 @ 1.25	-12.0 @ 1.25	—	30.0	SMD	Horizontal	296-20351-ND	45.00	42.00	39.00	PTB48580BAS
36.0 ~ 75.0	12.0 @ 1.25	-12.0 @ 1.25	—	30.0	SMD	Horizontal	296-20352-ND◆	45.00	42.00	39.00	PTB48580BAZ
36.0 ~ 75.0	5.0 @ 8.5	-5.0 @ 8.5	—	85.0	DIP	Horizontal	296-20984-ND◆	63.00	58.80	54.60	PTB48600AAH
36.0 ~ 75.0	5.0 @ 8.5	-5.0 @ 8.5	—	85.0	SMD	Horizontal	296-20353-ND	63.00	58.80	54.60	PTB48600AAS
36.0 ~ 75.0	5.0 @ 8.5	-5.0 @ 8.5	—	85.0	SMD	Horizontal	296-20354-ND◆	63.00	58.80	54.60	PTB48600AAZ

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(Continued)

Input Voltage Range (VDC)	Primary Output Voltage @ Maximum Current (VDC @ A)	Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						1	25	100	
				Single Output					
36.0 ~ 75.0	1.4 @ 16.0	22.4	SIP	Vertical	296-19957-ND◆	62.22	58.08	53.93	PT3405N
36.0 ~ 75.0	1.2 @ 16.0	19.2	SIP	Horizontal	296-19958-ND◆	62.22	58.08	53.93	PT3406A
36.0 ~ 75.0	1.2 @ 16.0	19.2	SIP	Vertical	296-19959-ND◆	62.22	58.08	53.93	PT3406N
36.0 ~ 75.0	5.0 @ 4.0	20.0	DIP	Horizontal	PT4122A-ND◆	48.68	45.43	42.19	PT4122A
36.0 ~ 75.0	15.0 @ 1.3	19.5	DIP	Horizontal	296-19960-ND◆	48.68	45.43	42.19	PT4124A
36.0 ~ 75.0	1.5 @ 5.0	7.5	SMD	Horizontal	296-19961-ND◆	48.68	45.43	42.19	PT4126C
18.0 ~ 40.0	3.3 @ 5.0	16.5	DIP	Horizontal	PT4141A-ND◆	48.68	45.43	42.19	PT4141A
18.0 ~ 40.0	3.3 @ 5.0	16.5	SMD	Horizontal	296-19962-ND◆	48.68	45.43	42.19	PT4141C
18.0 ~ 40.0	5.0 @ 4.0	20.0	DIP	Horizontal	PT4142A-ND◆	48.68	45.43	42.19	PT4142A
18.0 ~ 40.0	5.0 @ 4.0	20.0	SMD	Horizontal	PT4142C-ND◆	48.68	45.43	42.19	PT4142C
18.0 ~ 40.0	1.5 @ 5.0	7.5	DIP	Horizontal	296-19963-ND◆	48.68	45.43	42.19	PT4146A
38.0 ~ 75.0	3.3 @ 1.5	5.0	SMD	Horizontal	296-19964-ND◆	28.13	26.25	24.38	PT4212C
38.0 ~ 75.0	12.0 @ 0.6	7.2	DIP	Horizontal	296-19965-ND◆	28.13	26.25	24.38	PT4214A
38.0 ~ 75.0	12.0 @ 0.6	7.2	SMD	Horizontal	296-19966-ND◆	28.13	26.25	24.38	PT4214C
36.0 ~ 75.0	1.8 @ 3.0	5.4	SIP	Horizontal	296-19967-ND◆	46.35	43.26	40.17	PT4221A
36.0 ~ 75.0	3.3 @ 3.0	9.9	SIP	Horizontal	296-19968-ND◆	46.35	43.26	40.17	PT4222A
36.0 ~ 75.0	3.3 @ 3.0	9.9	SMD	Horizontal	296-19969-ND◆	46.35	43.26	40.17	PT4222C
36.0 ~ 75.0	5.0 @ 2.0	10.0	SIP	Horizontal	296-19970-ND◆	46.35	43.26	40.17	PT4223A
36.0 ~ 75.0	5.0 @ 2.0	10.0	SMD	Horizontal	296-19971-ND◆	46.35	43.26	40.17	PT4223C
36.0 ~ 75.0	12.0 @ 0.85	10.2	SIP	Horizontal	296-19972-ND◆	46.35	43.26	40.17	PT4224A
36.0 ~ 75.0	12.0 @ 0.85	10.2	SIP	Vertical	296-19973-ND◆	46.35	43.26	40.17	PT4224N
36.0 ~ 75.0	1.2 ~ 1.3 @ 3.0	3.9	SIP	Horizontal	296-19974-ND◆	46.35	43.26	40.17	PT4227A
18.0 ~ 36.0	3.3 @ 3.0	10.0	SIP	Horizontal	296-19975-ND	46.35	43.26	40.17	PT4242A
18.0 ~ 36.0	5.0 @ 2.0	10.0	SIP	Horizontal	PT4243A-ND	46.35	43.26	40.17	PT4243A
18.0 ~ 36.0	5.0 @ 2.0	10.0	SMD	Horizontal	296-19976-ND	46.35	43.26	40.17	PT4243C
18.0 ~ 36.0	5.0 @ 2.0	10.0	SIP	Vertical	296-19977-ND	46.35	43.26	40.17	PT4243N
18.0 ~ 36.0	12.0 @ 0.85	10.0	SIP	Horizontal	296-19978-ND	46.35	43.26	40.17	PT4244A
18.0 ~ 36.0	12.0 @ 0.85	10.0	SMD	Horizontal	296-19979-ND◆	46.35	43.26	40.17	PT4244C
18.0 ~ 36.0	12.0 @ 0.85	10.0	SIP	Vertical	296-19980-ND◆	46.35	43.26	40.17	PT4244N
18.0 ~ 36.0	1.2 ~ 1.3 @ 3.0	3.9	SIP	Horizontal	296-19981-ND◆	46.35	43.26	40.17	PT4247A
36.0 ~ 75.0	1.3 ~ 3.5 @ 30.0	105.0	SIP	Horizontal	296-19986-ND◆	102.96	96.10	89.24	PT4411A
36.0 ~ 75.0	1.3 ~ 3.5 @ 30.0	105.0	SMD	Horizontal	296-19987-ND◆	102.96	96.10	89.24	PT4411C
36.0 ~ 75.0	1.3 ~ 3.5 @ 30.0	105.0	SIP	Vertical	296-19988-ND◆	102.96	96.10	89.24	PT4411N
36.0 ~ 75.0	1.05 ~ 1.75 @ 30.0	52.5	SIP	Horizontal	296-19989-ND◆	102.96	96.10	89.24	PT4412A
36.0 ~ 75.0	1.05 ~ 1.75 @ 30.0	52.5	SMD	Horizontal	296-19990-ND	102.96	96.10	89.24	PT4412C
36.0 ~ 75.0	1.05 ~ 1.75 @ 30.0	52.5	SIP	Vertical	296-19991-ND◆	102.96	96.10	89.24	PT4412N
36.0 ~ 75.0	3.4 ~ 5.7 @ 20.0	100.0	SIP	Horizontal	296-19992-ND◆	102.96	96.10	89.24	PT4413A
36.0 ~ 75.0	3.4 ~ 5.7 @ 20.0	100.0	SMD	Horizontal	296-19993-ND◆	102.96	96.10	89.24	PT4413C
36.0 ~ 75.0	3.4 ~ 5.7 @ 20.0	100.0	SIP	Vertical	296-19994-ND◆	102.96	96.10	89.24	PT4413N
18.0 ~ 40.0	3.3 @ 5.0	16.5	SIP	Horizontal	296-19995-ND	56.03	52.29	48.56	PT4501A
18.0 ~ 40.0	3.3 @ 5.0	16.5	SIP	Vertical	296-19996-ND	56.03	52.29	48.56	PT4501N
18.0 ~ 40.0	5.0 @ 4.0	20.0	SIP	Horizontal	296-19997-ND	56.03	52.29	48.56	PT4502A
18.0 ~ 40.0	5.0 @ 4.0	20.0	SMD	Horizontal	296-19998-ND◆	56.03	52.29	48.56	PT4502C
18.0 ~ 40.0	5.0 @ 4.0	20.0	SIP	Vertical	296-19999-ND◆	56.03	52.29	48.56	PT4502N
18.0 ~ 40.0	12.0 @ 1.6	19.2	SIP	Horizontal	296-20000-ND◆	56.03	52.29	48.56	PT4503A
18.0 ~ 40.0	15.0 @ 1.3	19.5	SIP	Horizontal	296-20001-ND◆	56.03	52.29	48.56	PT4504A
18.0 ~ 40.0	1.5 @ 5.0	7.5	SIP	Horizontal	296-20002-ND	56.03	52.29	48.56	PT4506A
18.0 ~ 40.0	1.8 @ 5.0	9.0	SIP	Horizontal	296-20003-ND	56.03	52.29	48.56	PT4507A
18.0 ~ 40.0	1.8 @ 5.0	9.0	SIP	Vertical	296-20004-ND	56.03	52.29	48.56	PT4507N
18.0 ~ 40.0	2.5 @ 5.0	12.5	SIP	Horizontal	296-20005-ND	56.03	52.29	48.56	PT4508A
18.0 ~ 40.0	2.5 @ 5.0	12.5	SIP	Vertical	296-20006-ND	56.03	52.29	48.56	PT4508N
18.0 ~ 40.0	1.2 @ 5.0	6.0	SIP	Horizontal	296-20007-ND	56.03	52.29	48.56	PT4509A
36.0 ~ 75.0	3.3 @ 5.0	16.5	SIP	Horizontal	296-20008-ND	47.63	44.45	41.28	PT4521A
36.0 ~ 75.0	5.0 @ 4.0	20.0	SIP	Horizontal	296-20009-ND	47.63	44.45	41.28	PT4522A
36.0 ~ 75.0	5.0 @ 4.0	20.0	SMD	Horizontal	296-20010-ND	47.63	44.45	41.28	PT4522C
36.0 ~ 75.0	5.0 @ 4.0	20.0	SIP	Vertical	296-20011-ND◆	47.63	44.45	41.28	PT4522N
36.0 ~ 75.0	12.0 @ 1.6	19.2	SIP	Horizontal	296-20012-ND	47.63	44.45	41.28	PT4523A
36.0 ~ 75.0	12.0 @ 1.6	19.2	SMD	Horizontal	296-20013-ND◆	47.63	44.45	41.28	PT4523C
36.0 ~ 75.0	15.0 @ 1.3	19.5	SIP	Horizontal	296-20014-ND◆	47.63	44.45	41.28	PT4524A
36.0 ~ 75.0	1.2 @ 5.0	6.0	SIP	Horizontal	296-20015-ND◆	47.63	44.45	41.28	PT4529A
36.0 ~ 75.0	3.3 @ 8.0	26.4	SIP	Horizontal	296-20016-ND◆	66.45	62.02	57.59	PT4561A
36.0 ~ 75.0	5.0 @ 6.0	30.0	SIP	Horizontal	296-20017-ND◆	66.45	62.02	57.59	PT4562A
36.0 ~ 75.0	15.0 @ 2.0	30.0	SIP	Vertical	296-20018-ND◆	66.45	62.02	57.59	PT4564N
36.0 ~ 75.0	2.5 @ 8.0	20.0	SMD	Horizontal	296-20019-ND◆	66.45	62.02	57.59	PT4566C
18.0 ~ 60.0	3.3 @ 8.0	26.4	SMD	Horizontal	296-20020-ND◆	66.45	62.02	57.59	PT4581C
18.0 ~ 60.0	3.3 @ 8.0	26.4	SIP	Vertical	296-20021-ND◆	66.45	62.02	57.59	PT4581N
18.0 ~ 60.0	5.0 @ 6.0	30.0	SIP	Horizontal	PT4582A-ND◆	66.45	62.02	57.59	PT4582A
18.0 ~ 60.0	5.0 @ 6.0	30.0	SIP	Vertical	296-20022-ND	66.45	62.02	57.59	PT4582N
18.0 ~ 60.0	1.8 @ 8.0	14.4	SIP	Horizontal	296-20023-ND	66.45	62.02	57.59	PT4585A
18.0 ~ 60.0	1.8 @ 8.0	14.4	SMD	Horizontal	296-20024-ND◆	66.45	62.02	57.59	PT4585C
18.0 ~ 60.0	1.8 @ 8.0	14.4	SIP	Vertical	296-20025-ND◆	57.83	53.97	50.12	PT4585N
36.0 ~ 75.0	1.8 ~ 3.6 @ 25.0	90.0	DIP	Horizontal	296-20325-ND	93.00	86.80	80.60	PTB48520WAH
36.0 ~ 75.0	1.8 ~ 3.6 @ 25.0	90.0	SMD	Horizontal	296-20326-ND◆	93.00	86.80	80.60	PTB48520WAS
36.0 ~ 75.0	1.8 ~ 3.6 @ 25.0	90.0	SMD	Horizontal	296-20327-ND◆	93.00	86.80	80.60	PTB48520WAZ
36.0 ~ 57.0	5.0 @ 2.0	10.0	SMD	Horizontal	296-20331-ND◆	39.00	36.40	33.80	PTB48540AAZ
36.0 ~ 57.0	3.3 @ 3.0	10.0	DIP	Horizontal	296-20332-ND◆	35.90	—	—	PTB48540BAH
36.0 ~ 57.0	3.3 @ 3.0	10.0	SMD	Horizontal	296-20334-ND◆	39.00	36.40	33.80	PTB48540BAZ
36.0 ~ 57.0	12.0 @ 0.85	10.0	DIP	Horizontal	296-20335-ND◆	35.90	—	—	PTB48540CAH
36.0 ~ 57.0	12.0 @ 0.85	10.0	SMD	Horizontal	296-20337-ND◆	39.00	36.40	33.80	PTB48540CAZ
36.0 ~ 75.0	3.6 ~ 5.5 @ 6.0	30.0	DIP	Horizontal	296-20338-ND	37.50	35.00	32.50	PTB48560AAH
36.0 ~ 75.0	3.6 ~ 5.5 @ 6.0	30.0	SMD	Horizontal	296-20339-ND	37.50	35.00	32.50	PTB48560AAS
36.0 ~ 75.0	3.6 ~ 5.5 @ 6.0	30.0	SMD	Horizontal	296-20340-ND◆	37.50	35.00	32.50	PTB48560AAZ
36.0 ~ 75.0	1.8 ~ 3.6 @ 8.0	30.0	DIP	Horizontal	296-20341-ND	37.50	35.00	32.50	PTB48560BAH
36.0 ~ 75.0	1.8 ~ 3.6 @ 8.0	30.0	SMD	Horizontal	296-20342-ND	37.50	35.00	32.50	PTB48560BAS
36.0 ~ 75.0	1.8 ~ 3.6 @ 8.0	30.0	SMD	Horizontal	296-20343-ND◆	37.50	35.00	32.50	PTB48560BAZ
36.0 ~ 75.0	9.0 ~ 13.2 @ 2.5	30.0	DIP	Horizontal	296-20344-ND	37.50	35.00	32.50	PTB48560CAH
36.0 ~ 75.0	9.0 ~ 13.2 @ 2.5	30.0	SMD	Horizontal	296-20345-ND	37.50	35.00	32.50	PTB48560CAS
36.0 ~ 75.0	9.0 ~ 13.2 @ 2.5	30.0	SMD	Horizontal	296-20346-ND◆	37.50	35.00	32.50	PTB48560CAZ
18.0 ~ 60.0	1.8 ~ 3.6 @ 20.0	72.0	DIP	Horizontal	296-20355-ND	93.00	86.80	80.60	PTB78520WAH
18.0 ~ 60.0	1.8 ~ 3.6 @ 20.0	72.0	SMD	Horizontal	296-20356-ND	93.00	86.80	80.60	PTB78520WAS
18.0 ~ 60.0	3.6 ~ 5.5 @ 6.0	30.0	DIP	Horizontal	296-20357-ND	37.50	35.00	32.50	PTB78560AAH
18.0 ~ 60.0	3.6 ~ 5.5 @ 6.0	30.0	SMD	Horizontal	296-20358-ND	37.50	35.00	32.50	PTB78560AAS
18.0 ~ 60.0	3.6 ~ 5.5 @ 6.0	30.0	SMD	Horizontal	296-20359-ND◆	37.50	35.00	32.50	PTB78560AAZ
18.0 ~ 60.0	1.8 ~ 3.6 @ 8.0	30.0	DIP	Horizontal	296-20360-ND	37.50	35.00	32.50	PTB78560BAH
18.0 ~ 60.0	1.8 ~ 3.6 @ 8.0	30.0	SMD	Horizontal	296-20361-ND	37.50	35.00	32.50	PTB78560BAS
18.0 ~ 60.0	1.8 ~ 3.6 @ 8.0	30.0	SMD	Horizontal	296-20362-ND◆	37.50	35.00	32.50	PTB78560BAZ
18.0 ~ 60.0	9.0 ~ 13.2 @ 2.5	30.0	DIP	Horizontal	296-20363-ND◆	37.50	35.00	32.50	PTB78560CAH
18.0 ~ 60.0	9.0 ~ 13.2 @ 2.5	30.0	SMD	Horizontal	296-20364-ND	37.50	35.00	32.50	PTB78560CAS
18.0 ~ 60.0	9.0 ~ 13.2 @ 2.5	30.0	SMD	Horizontal	296-20365-ND◆	37.50	35.00	32.50	PTB78560CAZ
35.0 ~ 75.0	12.0 @ 4.2	50.0	DIP	Horizontal	296-21399-ND◆	37.77	35.26	32.74	PTEA404120N2AD
35.0 ~ 75.0	12.0 @ 4.2	50.0	DIP	Horizontal	296-21400-ND◆	37.77	35.26	32.74	PTEA404120P2AD
36.0 ~ 75.0	2.5 @ 20.0	50.0	DIP	Horizontal	296-22971-ND ***NEW!***	37.77	35.26	32.74	PTEA420025N2AD
36.0 ~ 75.0	3.3 @ 20.0	66.0	DIP	Horizontal	296-22972-ND ***NEW!***	37.77	35.26	32.74	PTEA420033N2AD

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Input Voltage Range (VDC)	Primary Output Voltage @ Maximum Current (VDC @ A)	Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						1	25	100	
36.0 ~ 75.0	12.0 @ 1.0	12.0	DIP	Horizontal	296-21462-ND◆	19.95	18.62	17.29	PTMA401120A1AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMD	Horizontal	296-21463-ND◆	19.95	18.62	17.29	PTMA401120A1AZ
36.0 ~ 75.0	12.0 @ 1.0	12.0	DIP	Horizontal	296-21464-ND◆	20.67	19.30	17.92	PTMA401120A2AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMD	Horizontal	296-21465-ND◆	20.67	19.30	17.92	PTMA401120A2AZ
36.0 ~ 75.0	12.0 @ 1.0	12.0	DIP	Horizontal	296-21466-ND◆	21.38	19.95	18.53	PTMA401120A3AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMD	Horizontal	296-21467-ND◆	21.38	19.95	18.53	PTMA401120A3AZ
36.0 ~ 75.0	12.0 @ 1.0	12.0	DIP	Horizontal	296-21468-ND◆	20.67	19.30	17.92	PTMA401120N1AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMD	Horizontal	296-21469-ND◆	20.67	19.30	17.92	PTMA401120N1AZ
36.0 ~ 75.0	12.0 @ 1.0	12.0	DIP	Horizontal	296-19774-ND◆	21.38	19.95	18.53	PTMA401120N2AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMD	Horizontal	296-19775-ND	21.38	19.95	18.53	PTMA401120N2AS
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMD	Horizontal	296-21470-ND◆	21.38	19.95	18.53	PTMA401120N2AZ
36.0 ~ 75.0	12.0 @ 1.0	12.0	DIP	Horizontal	296-21471-ND◆	20.67	19.30	17.92	PTMA401120P1AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMD	Horizontal	296-21472-ND◆	20.67	19.30	17.92	PTMA401120P1AZ
36.0 ~ 75.0	12.0 @ 1.0	12.0	DIP	Horizontal	296-21473-ND◆	21.38	19.95	18.53	PTMA401120P2AD
36.0 ~ 75.0	12.0 @ 1.0	12.0	SMD	Horizontal	296-21474-ND◆	21.38	19.95	18.53	PTMA401120P2AZ
36.0 ~ 75.0	5.0 @ 2.0	10.0	SMD	Horizontal	296-21475-ND◆	19.95	18.62	17.29	PTMA402050A1AZ
36.0 ~ 75.0	5.0 @ 2.0	10.0	DIP	Horizontal	296-21476-ND◆	20.67	19.30	17.92	PTMA402050A3AD
36.0 ~ 75.0	5.0 @ 2.0	10.0	SMD	Horizontal	296-21477-ND◆	20.67	19.30	17.92	PTMA402050A3AZ
36.0 ~ 75.0	5.0 @ 2.0	10.0	DIP	Horizontal	296-20492-ND◆	21.38	19.95	18.53	PTMA402050N2AD
36.0 ~ 75.0	5.0 @ 2.0	10.0	SMD	Horizontal	296-20493-ND	21.38	19.95	18.53	PTMA402050N2AS
36.0 ~ 75.0	5.0 @ 2.0	10.0	DIP	Horizontal	296-21478-ND◆	21.38	19.95	18.53	PTMA402050P2AD
36.0 ~ 75.0	3.3 @ 3.0	9.9	DIP	Horizontal	296-21479-ND◆	19.95	18.62	17.29	PTMA403033A1AD
36.0 ~ 75.0	3.3 @ 3.0	9.9	SMD	Horizontal	296-21480-ND◆	19.95	18.62	17.29	PTMA403033A1AZ
36.0 ~ 75.0	3.3 @ 3.0	9.9	DIP	Horizontal	296-21481-ND◆	20.67	19.30	17.92	PTMA403033A2AD
36.0 ~ 75.0	3.3 @ 3.0	9.9	SMD	Horizontal	296-21482-ND◆	20.67	19.30	17.92	PTMA403033A2AZ
36.0 ~ 75.0	3.3 @ 3.0	9.9	DIP	Horizontal	296-21483-ND◆	20.67	19.30	17.92	PTMA403033A3AD
36.0 ~ 75.0	3.3 @ 3.0	9.9	SMD	Horizontal	296-21484-ND◆	20.67	19.30	17.92	PTMA403033A3AZ
36.0 ~ 75.0	3.3 @ 3.0	9.9	DIP	Horizontal	296-21485-ND◆	20.67	19.30	17.92	PTMA403033N1AD
36.0 ~ 75.0	3.3 @ 3.0	9.9	SMD	Horizontal	296-21486-ND◆	20.67	19.30	17.92	PTMA403033N1AZ
36.0 ~ 75.0	3.3 @ 3.0	9.9	DIP	Horizontal	296-20494-ND◆	21.38	19.95	18.53	PTMA403033N2AD
36.0 ~ 75.0	3.3 @ 3.0	9.9	SMD	Horizontal	296-20495-ND	21.38	19.95	18.53	PTMA403033N2AS
36.0 ~ 75.0	3.3 @ 3.0	9.9	SMD	Horizontal	296-21487-ND◆	21.38	19.95	18.53	PTMA403033N2AZ
36.0 ~ 75.0	3.3 @ 3.0	9.9	DIP	Horizontal	296-21488-ND◆	20.67	19.30	17.92	PTMA403033P1AD
36.0 ~ 75.0	3.3 @ 3.0	9.9	DIP	Horizontal	296-21489-ND◆	21.38	19.95	18.53	PTMA403033P2AD
36.0 ~ 75.0	3.3 @ 3.0	9.9	SMD	Horizontal	296-21490-ND◆	21.38	19.95	18.53	PTMA403033P2AZ
36.0 ~ 75.0	5.0 @ 20.0	100.0	DIP	Horizontal	296-21541-ND	49.88	46.55	43.23	PTQA420050N2AD
36.0 ~ 75.0	5.0 @ 20.0	100.0	DIP	Horizontal	296-21542-ND	49.88	46.55	43.23	PTQA420050P2AD
36.0 ~ 75.0	2.5 @ 30.0	75.0	DIP	Horizontal	296-19776-ND	49.88	46.55	43.23	PTQA430025N2AD
36.0 ~ 75.0	2.5 @ 30.0	75.0	DIP	Horizontal	296-19777-ND	49.88	46.55	43.23	PTQA430025P2AD
36.0 ~ 75.0	3.3 @ 30.0	100.0	DIP	Horizontal	296-19778-ND	49.88	46.55	43.23	PTQA430033N2AD
36.0 ~ 75.0	3.3 @ 30.0	100.0	DIP	Horizontal	296-19779-ND	49.88	46.55	43.23	PTQA430033P2AD
36.0 ~ 75.0	8.0 @ 25.0	200.0	DIP	Horizontal	296-21407-ND◆	64.13	59.85	55.58	PTQB425080N2AD
36.0 ~ 75.0	8.0 @ 25.0	200.0	DIP	Horizontal	296-21408-ND◆	64.13	59.85	55.58	PTQB425080N3AD
1W Miniature — RoHS Compliant									
4.5 ~ 5.5	±5.0 @ 0.1	1.0	SIP	Vertical	296-20637-ND	8.08	6.47	5.46	DCH010505DN7
4.5 ~ 5.5	5.0 @ 0.2	1.0	SIP	Vertical	296-20638-ND	8.08	6.47	5.46	DCH010505SN7
4.5 ~ 5.5	±12.0 @ 0.042	1.0	SIP	Vertical	296-20639-ND	8.08	6.47	5.46	DCH010512DN7
4.5 ~ 5.5	12.0 @ 0.083	1.0	SIP	Vertical	296-20640-ND	8.08	6.47	5.46	DCH010512SN7
4.5 ~ 5.5	±15.0 @ 0.033	1.0	SIP	Vertical	296-20641-ND	8.08	6.47	5.46	DCH010515DN7
4.5 ~ 5.5	15.0 @ 0.067	1.0	SIP	Vertical	296-20642-ND	8.08	6.47	5.46	DCH010515SN7

◆ ***RoHS Compliant***

Non-Isolated POL

Features: • Easy to use, just plug them in • The industries smallest, most efficient and easy to use Integrated Switching Regulators (ISRs) • Uses unique, proprietary design, which employs 1 MHz of switching technology to produce state-of-the-art power densities, allowing the user to select the product performance that exactly matches the application • Only one, if any external component is required • Plug-in power solutions are designed to work from industry-standard DC bus voltages • The Output Current of the converter should match the maximum current need of your application • Choose an adjustable or fixed Output Voltage that meets your requirements • Vertical mounting uses the smallest footprint and surface mount and horizontal through-hole are available in most product series

TurboTrans™ Additional Features: • Optimizes the transient response of the regulator, while simultaneously reducing the quantity of external output capacitors required to meet a target voltage deviation specification • Can be used for target output capacitor bank, to significantly improve the regulator's transient response by reducing the peak voltage deviation

Input Voltage Range (VDC)	Primary Output Voltage @ Maximum Current (VDC @ A)	Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						1	25	100	
T2 TurboTrans™ Modules									
2.2 ~ 5.5	0.69 ~ 3.6 @ 16.0	57.6	DIP	Horizontal	296-21401-ND◆	17.96	16.76	15.57	PTH04T220WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 16.0	57.6	SMD	Horizontal	296-21402-ND	17.96	16.76	15.57	PTH04T220WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 16.0	57.6	SMD	Horizontal	296-21403-ND◆	17.96	16.76	15.57	PTH04T220WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 16.0	57.6	DIP	Horizontal	296-21787-ND	17.96	16.76	15.57	PTH04T221WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 16.0	57.6	SMD	Horizontal	296-21788-ND	17.96	16.76	15.57	PTH04T221WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 16.0	57.6	SMD	Horizontal	296-21789-ND	17.96	16.76	15.57	PTH04T221WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 6.0	21.6	DIP	Horizontal	296-21310-ND◆	12.51	11.27	9.99	PTH04T230WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 6.0	21.6	SMD	Horizontal	296-21311-ND	12.51	11.27	9.99	PTH04T230WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 6.0	21.6	SMD	Horizontal	296-21312-ND◆	12.51	11.27	9.99	PTH04T230WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 6.0	21.6	DIP	Horizontal	296-21790-ND◆	12.51	11.27	9.99	PTH04T231WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 6.0	21.6	SMD	Horizontal	296-21791-ND	12.51	11.27	9.99	PTH04T231WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 6.0	21.6	SMD	Horizontal	296-21792-ND◆	12.51	11.27	9.99	PTH04T231WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 10.0	36.0	DIP	Horizontal	296-21793-ND◆	15.39	14.37	13.34	PTH04T240WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 10.0	36.0	SMD	Horizontal	296-21794-ND	15.39	14.37	13.34	PTH04T240WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 10.0	36.0	SMD	Horizontal	296-21242-ND◆	15.39	14.37	13.34	PTH04T240WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 10.0	36.0	DIP	Horizontal	296-21704-ND◆	15.39	14.37	13.34	PTH04T241WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 10.0	36.0	SMD	Horizontal	296-21705-ND	15.39	14.37	13.34	PTH04T241WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 10.0	36.0	SMD	Horizontal	296-21706-ND◆	15.39	14.37	13.34	PTH04T241WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 3.0	10.8	DIP	Horizontal	296-21797-ND◆	10.41	9.38	8.32	PTH04T260WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 3.0	10.8	SMD	Horizontal	296-21319-ND	10.41	9.38	8.32	PTH04T260WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 3.0	10.8	SMD	Horizontal	296-21798-ND◆	10.41	9.38	8.32	PTH04T260WAZ
2.2 ~ 5.5	0.69 ~ 3.6 @ 3.0	10.8	DIP	Horizontal	296-21799-ND◆	10.41	9.38	8.32	PTH04T261WAD
2.2 ~ 5.5	0.69 ~ 3.6 @ 3.0	10.8	SMD	Horizontal	296-21800-ND	10.41	9.38	8.32	PTH04T261WAS
2.2 ~ 5.5	0.69 ~ 3.6 @ 3.0	10.8	SMD	Horizontal	296-21801-ND◆	10.41	9.38	8.32	PTH04T261WAZ
4.5 ~ 5.5	0.7 ~ 3.6 @ 30.0	108.0	DIP	Horizontal	296-20425-ND◆	25.65	23.94	22.23	PTH05T210WAD
4.5 ~ 5.5	0.7 ~ 3.6 @ 30.0	108.0	DIP	Horizontal	296-20426-ND	25.65	23.94	22.23	PTH05T210WAH
4.5 ~ 5.5	0.7 ~ 3.6 @ 30.0	108.0	SMD	Horizontal	296-20427-ND	25.65	23.94	22.23	PTH05T210WAS
4.5 ~ 5.5	0.7 ~ 3.6 @ 30.0	108.0	SMD	Horizontal	296-20428-ND◆	25.65	23.94	22.23	PTH05T210WAZ
5.5 ~ 14.0	0.7 ~ 3.6 @ 25.0	90.0	DIP	Horizontal	296-20434-ND◆	25.65	23.94	22.23	PTH08T210WAD
5.5 ~ 14.0	0.7 ~ 3.6 @ 30.0	90.0	DIP	Horizontal	296-20435-ND	25.65	23.94	22.23	PTH08T210WAH
5.5 ~ 14.0	0.7 ~ 3.6 @ 25.0	90.0	SMD	Horizontal	296-20436-ND	25.65	23.94	22.23	PTH08T210WAS
5.5 ~ 14.0	0.7 ~ 3.6 @ 25.0	90.0	SMD	Horizontal	296-20437-ND◆	25.65	23.94	22.23	PTH08T210WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	88.0	DIP	Horizontal	296-20438-ND◆	17.96	16.76	15.57	PTH08T220WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	88.0	DIP	Horizontal	296-20439-ND	17.96	16.76	15.57	PTH08T220WAH
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	88.0	SMD	Horizontal	296-20440-ND	17.96	16.76	15.57	PTH08T220WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	88.0	SMD	Horizontal	296-20441-ND◆	17.96	16.76	15.57	PTH08T220WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	88.0	DIP	Horizontal	296-21334-ND◆	17.96	16.76	15.57	PTH08T221WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	88.0	SMD	Horizontal	296-21335-ND	17.96	16.76	15.57	PTH08T221WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 16.0	88.0	SMD	Horizontal	296-21336-ND◆	17.96	16.76	15.57	PTH08T221WAZ

◆ ***RoHS Compliant***

(Continued)

Input Voltage Range (VDC)	Primary Output Voltage @ Maximum Current (VDC @ A)	Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						1	25	100	
4.5 ~ 14.0	0.69 ~ 5.5 @ 6.0	33.0	DIP	Horizontal	296-20647-ND◆	12.51	11.27	9.99	PTH08T230WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 6.0	33.0	SMD	Horizontal	296-20648-ND◆	12.51	11.27	9.99	PTH08T230WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 6.0	33.0	SMD	Horizontal	296-20649-ND◆	12.51	11.27	9.99	PTH08T230WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 6.0	33.0	DIP	Horizontal	296-21587-ND◆	12.51	11.27	9.99	PTH08T231WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 6.0	33.0	SMD	Horizontal	296-21588-ND◆	12.51	11.27	9.99	PTH08T231WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 6.0	33.0	SMD	Horizontal	296-21589-ND◆	12.51	11.27	9.99	PTH08T231WAZ
4.5 ~ 14.0	0.69 ~ 2.0 @ 10.0	20.0	DIP	Horizontal	296-22771-ND	15.39	14.37	13.34	PTH08T240FAD
4.5 ~ 14.0	0.69 ~ 2.0 @ 10.0	20.0	SMD	Horizontal	296-22772-ND◆	15.39	14.37	13.34	PTH08T240FAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	55.0	DIP	Horizontal	296-20442-ND◆	15.39	14.37	13.34	PTH08T240WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	55.0	DIP	Horizontal	296-20443-ND	15.39	14.37	13.34	PTH08T240WAH
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	55.0	SMD	Horizontal	296-20444-ND	15.39	14.37	13.34	PTH08T240WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	55.0	SMD	Horizontal	296-20445-ND◆	15.39	14.37	13.34	PTH08T240WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	55.0	DIP	Horizontal	296-21337-ND◆	15.39	14.37	13.34	PTH08T241WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	55.0	SMD	Horizontal	296-21338-ND	15.39	14.37	13.34	PTH08T241WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 10.0	55.0	SMD	Horizontal	296-21339-ND◆	15.39	14.37	13.34	PTH08T241WAZ
4.5 ~ 14.0	0.7 ~ 3.6 @ 48	172.8	DIP	Horizontal	296-22037-ND	51.30	47.88	44.46	PTH08T250WAD
4.5 ~ 14.0	0.7 ~ 3.6 @ 48	172.8	SMD	Horizontal	296-22038-ND	51.30	47.88	44.46	PTH08T250WAS
4.5 ~ 14.0	0.7 ~ 3.6 @ 48	172.8	SMD	Horizontal	296-22039-ND◆	51.30	47.88	44.46	PTH08T250WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 3.0	16.5	DIP	Horizontal	296-21404-ND◆	10.41	9.38	8.32	PTH08T260WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 3.0	16.5	SMD	Horizontal	296-21405-ND	10.41	9.38	8.32	PTH08T260WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 3.0	16.5	SMD	Horizontal	296-21406-ND◆	10.41	9.38	8.32	PTH08T260WAZ
4.5 ~ 14.0	0.69 ~ 5.5 @ 3.0	16.5	DIP	Horizontal	296-21539-ND	10.41	9.38	8.32	PTH08T261WAD
4.5 ~ 14.0	0.69 ~ 5.5 @ 3.0	16.5	SMD	Horizontal	296-21540-ND	10.41	9.38	8.32	PTH08T261WAS
4.5 ~ 14.0	0.69 ~ 5.5 @ 3.0	16.5	SMD	Horizontal	296-21590-ND◆	10.41	9.38	8.32	PTH08T261WAZ
4.75 ~ 14.0	0.7 ~ 3.6 @ 10.0	36.0	DIP	Horizontal	296-23167-ND ***NEW!***	14.16	12.75	11.31	PTD08A010WAD
8.0 ~ 14.0	0.8 ~ 3.6 @ 50.0	180.0	SIP	Vertical	296-20529-ND◆	51.30	47.88	44.46	PTV08T250WAD
8.0 ~ 14.0	0.8 ~ 3.6 @ 50.0	180.0	SIP	Vertical	296-20530-ND	51.30	47.88	44.46	PTV08T250WAH
3.3V Input									
3.1 ~ 5.5	2.0 @ 5.5	11.0	SMD	Horizontal	296-20128-ND	17.40	16.24	15.08	PT5403C
3.1 ~ 5.5	1.8 @ 5.5	9.9	SMD	Horizontal	296-20129-ND◆	17.40	16.24	15.08	PT5404C
3.1 ~ 5.5	1.2 @ 6.0	7.2	SIP	Horizontal	PT5406A-ND	17.40	16.24	15.08	PT5406A
3.1 ~ 5.5	1.0 @ 5.5	5.5	SIP	Horizontal	296-20130-ND◆	17.40	16.24	15.08	PT5407A
3.1 ~ 3.6	2.5 @ 6.0	15.0	SIP	Horizontal	296-20131-ND◆	17.40	16.24	15.08	PT5408A
3.1 ~ 3.6	2.5 @ 6.0	15.0	SIP	Vertical	296-20132-ND	17.40	16.24	15.08	PT5408N
2.95 ~ 3.65	2.5 @ 20.0	50.0	SIP	Horizontal	296-20144-ND	33.09	30.89	28.68	PT5812A
2.95 ~ 3.65	1.8 @ 20.0	36.0	SIP	Horizontal	296-20145-ND	33.09	30.89	28.68	PT5813A
2.95 ~ 3.65	1.8 @ 20.0	36.0	SMD	Horizontal	296-20146-ND	33.09	30.89	28.68	PT5813C
2.95 ~ 3.65	1.5 @ 20.0	30.0	SIP	Horizontal	296-20147-ND	33.09	30.89	28.68	PT5814A
2.95 ~ 3.65	1.5 @ 20.0	30.0	SMD	Horizontal	296-20148-ND	33.09	30.89	28.68	PT5814C
2.95 ~ 3.65	1.5 @ 20.0	30.0	SIP	Vertical	296-20149-ND	33.09	30.89	28.68	PT5814N
2.95 ~ 3.65	1.2 @ 20.0	24.0	SMD	Horizontal	296-20150-ND	33.09	30.89	28.68	PT5815C
2.95 ~ 3.65	2.5 @ 14.0	35.0	SIP	Vertical	296-20183-ND	25.76	24.04	22.33	PT6472N
2.95 ~ 3.65	1.8 @ 14.0	25.2	SIP	Vertical	296-20184-ND	25.76	24.04	22.33	PT6474N
2.95 ~ 3.65	1.5 @ 14.0	21.0	SIP	Horizontal	296-20185-ND	25.76	24.04	22.33	PT6475A
2.95 ~ 3.65	1.5 @ 14.0	21.0	SMD	Horizontal	296-20186-ND	25.76	24.04	22.33	PT6475C
2.95 ~ 3.65	1.5 @ 14.0	21.0	SIP	Vertical	296-20187-ND	25.76	24.04	22.33	PT6475N
2.95 ~ 3.65	1.2 @ 14.0	16.8	SIP	Vertical	296-20188-ND	25.76	24.04	22.33	PT6476N
3.1 ~ 3.6	3.8 ~ 5.5 @ 4.0	22.0	SMD	Horizontal	296-20199-ND◆	27.86	26.00	24.15	PT6671E
3.1 ~ 3.6	1.3 ~ 2.05 @ 13.0	26.7	SMD	Horizontal	296-20201-ND	31.11	29.04	26.97	PT6702C
3.1 ~ 5.5	1.1 ~ 1.85 @ 13.0	24.1	SIP	Horizontal	296-20202-ND◆	31.11	29.04	26.97	PT6703A
3.1 ~ 5.5	1.1 ~ 1.85 @ 13.0	24.1	SIP	Vertical	296-20203-ND	27.03	25.23	23.43	PT6703N
3.1 ~ 5.5	1.8 @ 13.0	23.4	SIP	Horizontal	296-20204-ND	28.70	26.79	24.87	PT6717A
3.1 ~ 3.6	-4.4 ~ -1.4 @ 5.0	7.0	SMD	Horizontal	296-20220-ND	45.30	42.28	39.26	PT6914C
3.1 ~ 3.6	-4.4 ~ -1.4 @ 5.0	7.0	SIP	Vertical	296-20221-ND	45.30	42.28	39.26	PT6914N
3.0 ~ 3.6	0.9 ~ 2.5 @ 6.0	15.0	DIP	Horizontal	296-20366-ND◆	11.50	10.35	9.18	PTH03000WAH
3.0 ~ 3.6	0.9 ~ 2.5 @ 6.0	15.0	SMD	Horizontal	296-20367-ND	11.50	10.35	9.18	PTH03000WAS
3.0 ~ 3.6	0.9 ~ 2.5 @ 6.0	15.0	SMD	Horizontal	296-20368-ND◆	11.50	10.35	9.18	PTH03000WAZ
2.95 ~ 3.65	0.8 ~ 2.5 @ 15.0	37.5	DIP	Horizontal	296-20369-ND◆	16.53	15.43	14.33	PTH03010WAH
2.95 ~ 3.65	0.8 ~ 2.5 @ 15.0	37.5	SMD	Horizontal	296-20370-ND	16.53	15.43	14.33	PTH03010WAS
2.95 ~ 3.65	0.8 ~ 2.5 @ 15.0	37.5	SMD	Horizontal	296-20371-ND◆	16.53	15.43	14.33	PTH03010WAZ
2.95 ~ 3.65	0.55 ~ 1.8 @ 15.0	27.0	DIP	Horizontal	296-20372-ND	16.53	15.43	14.33	PTH03010YAH
2.95 ~ 3.65	0.55 ~ 1.8 @ 15.0	27.0	SMD	Horizontal	296-20373-ND	16.53	15.43	14.33	PTH03010YAS
2.95 ~ 3.65	0.55 ~ 1.8 @ 15.0	27.0	SMD	Horizontal	296-20374-ND◆	16.53	15.43	14.33	PTH03010YAZ
2.95 ~ 3.65	0.8 ~ 2.5 @ 22.0	55.0	DIP	Horizontal	296-20375-ND◆	21.38	19.95	18.53	PTH03020WAH
2.95 ~ 3.65	0.8 ~ 2.5 @ 22.0	55.0	SMD	Horizontal	296-20376-ND	21.38	19.95	18.53	PTH03020WAS
2.95 ~ 3.65	0.8 ~ 2.5 @ 22.0	55.0	SMD	Horizontal	296-20377-ND◆	21.38	19.95	18.53	PTH03020WAZ
2.95 ~ 3.65	0.8 ~ 2.5 @ 30.0	75.0	DIP	Horizontal	296-20378-ND◆	24.23	22.61	21.00	PTH03030WAH
2.95 ~ 3.65	0.8 ~ 2.5 @ 30.0	75.0	SMD	Horizontal	296-20379-ND	24.23	22.61	21.00	PTH03030WAS
2.95 ~ 3.65	0.8 ~ 2.5 @ 30.0	75.0	SMD	Horizontal	296-20380-ND◆	24.23	22.61	21.00	PTH03030WAZ
2.95 ~ 3.65	0.8 ~ 2.5 @ 6.0	15.0	DIP	Horizontal	296-20381-ND◆	10.93	9.84	8.73	PTH03050WAH
2.95 ~ 3.65	0.8 ~ 2.5 @ 6.0	15.0	SMD	Horizontal	296-20382-ND	10.93	9.84	8.73	PTH03050WAS
2.95 ~ 3.65	0.55 ~ 1.8 @ 6.0	10.8	DIP	Horizontal	296-19802-ND◆	10.93	9.84	8.73	PTH03050YAH
2.95 ~ 3.65	0.55 ~ 1.8 @ 6.0	10.8	SMD	Horizontal	296-20383-ND	10.93	9.84	8.73	PTH03050YAS
2.95 ~ 3.65	0.55 ~ 1.8 @ 6.0	10.8	SMD	Horizontal	296-20384-ND◆	10.93	9.84	8.73	PTH03050YAZ
2.95 ~ 3.65	0.8 ~ 2.5 @ 10.0	25.0	DIP	Horizontal	296-20385-ND◆	15.51	13.97	12.39	PTH03060WAH
2.95 ~ 3.65	0.8 ~ 2.5 @ 10.0	25.0	SMD	Horizontal	296-20386-ND	15.51	13.97	12.39	PTH03060WAS
2.95 ~ 3.65	0.8 ~ 2.5 @ 10.0	25.0	SMD	Horizontal	296-20387-ND◆	15.51	13.97	12.39	PTH03060WAZ
2.95 ~ 3.65	0.55 ~ 1.8 @ 10.0	18.0	DIP	Horizontal	296-19805-ND◆	15.51	13.97	12.39	PTH03060YAH
2.95 ~ 3.65	0.55 ~ 1.8 @ 10.0	18.0	SMD	Horizontal	296-20388-ND◆	15.51	13.97	12.39	PTH03060YAS
2.95 ~ 3.65	0.55 ~ 1.8 @ 10.0	18.0	SMD	Horizontal	296-20389-ND◆	15.51	13.97	12.39	PTH03060YAZ
3.0 ~ 5.5	0.9 ~ 3.6 @ 3.0	10.8	DIP	Horizontal	296-20390-ND◆	8.56	6.85	5.78	PTH04000WAH
3.0 ~ 5.5	0.9 ~ 3.6 @ 3.0	10.8	SMD	Horizontal	296-20391-ND	8.56	6.85	5.78	PTH04000WAS
3.0 ~ 5.5	0.9 ~ 3.6 @ 3.0	10.8	SMD	Horizontal	296-20392-ND◆	8.56	6.85	5.78	PTH04000WAZ
2.95 ~ 5.5	0.8 ~ 2.5 @ 60.0	150.0	DIP	Horizontal	296-20393-ND◆	49.88	46.55	43.23	PTH04040WAD
2.95 ~ 5.5	0.8 ~ 2.5 @ 60.0	150.0	DIP	Horizontal	296-20394-ND	49.88	46.55	43.23	PTH04040WAH
2.95 ~ 5.5	0.8 ~ 2.5 @ 60.0	150.0	SMD	Horizontal	296-20395-ND	49.88	46.55	43.23	PTH04040WAS
2.95 ~ 5.5	0.8 ~ 2.5 @ 60.0	150.0	SMD	Horizontal	296-20396-ND	49.88	46.55	43.23	PTH04040WAZ
3.0 ~ 5.5	0.9 ~ 3.6 @ 3.0	10.8	DIP	Horizontal	296-20397-ND◆	8.60	6.88	5.81	PTH04070WAH
3.0 ~ 5.5	0.9 ~ 3.6 @ 3.0	10.8	SMD	Horizontal	296-20398-ND	8.60	6.88	5.81	PTH04070WAS
3.0 ~ 5.5	0.9 ~ 3.6 @ 3.0	10.8	SMD	Horizontal	296-20399-ND◆	8.60	6.88	5.81	PTH04070WAZ
2.95 ~ 3.6	0.8 ~ 2.5 @ 8.0	20.0	SIP	Vertical	296-20986-ND◆	10.93	9.84	8.73	PTV03010WAH
2.95 ~ 3.6	0.8 ~ 2.5 @ 18.0	45.0	SIP	Vertical	296-20987-ND◆	16.53	15.43	14.33	PTV03020WAH
5V Input									
4.75 ~ 7.0	-3.3 @ 1.0	3.3	SIP	Horizontal	296-20080-ND	15.51	13.97	12.39	PT5021A
4.75 ~ 7.0	-3.3 @ 1.0	3.3	SMD	Horizontal	296-20081-ND	15.51	13.97	12.39	PT5021C
4.75 ~ 7.0	-3.3 @ 1.0	3.3	SIP	Vertical	296-20082-ND◆	15.51	13.97	12.39	PT5021N
4.75 ~ 7.0	-5.0 @ 1.0	5.0	SIP	Horizontal	PT5022A-ND◆	15.51	13.97	12.39	PT5022A
4.75 ~ 7.0	-5.0 @ 1.0	5.0	SMD	Horizontal	PT5022C-ND◆	15.51	13.97	12.39	PT5022C
4.75 ~ 7.0	-5.0 @ 1.0	5.0	SIP	Vertical	PT5022N-ND◆	15.51	13.97	12.39	PT5022N
4.75 ~ 7.0	-9.0 @ 0.6	5.4	SIP	Horizontal	296-20083-ND◆	15.51	13.97	12.39	PT5023A
4.75 ~ 7.0	-9.0 @ 0.6	5.4	SIP	Vertical	296-20084-ND◆	15.51	13.97	12.39	PT5023N
4.75 ~ 7.0	-12.0 @ 0.5	6.0	SIP	Horizontal	PT5024A-ND◆	15.51	13.97	12.39	PT5024A
4.75 ~ 7.0	-12.0 @ 0.5	6.0	SMD	Horizontal	PT5024C-ND◆	15.51	13.97	12.39	PT5024C
4.75 ~ 7.0	-12.0 @ 0.5	6.0	SIP	Vertical	PT5024N-ND	15.51	13.97	12.39	PT5024N
4.75 ~ 7.0	-15.0 @ 0.3	4.5	SMD	Horizontal	296-20085-ND◆	15.51	13.97	12.39	PT5025C
4.75 ~ 7.0	-15.0 @ 0.3	4.5	SIP	Vertical	296-20086-ND◆	15.51	13.97	12.39	PT5025N

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Input Voltage Range (VDC)	Primary Output Voltage @ Maximum Current (VDC @ A)	Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						1	25	100	
4.75 ~ 7.0	-5.2 @ 1.0	5.2	SIP	Horizontal	296-20087-ND◆	15.51	13.97	12.39	PT5026A
4.75 ~ 7.0	-5.2 @ 1.0	5.2	SIP	Vertical	296-20088-ND	15.51	13.97	12.39	PT5026N
4.75 ~ 7.0	-8.0 @ 0.6	4.8	SIP	Horizontal	296-20089-ND	15.51	13.97	12.39	PT5027A
4.75 ~ 7.0	-8.0 @ 0.6	4.8	SMD	Horizontal	296-20090-ND	15.51	13.97	12.39	PT5027C
4.75 ~ 7.0	-8.0 @ 0.6	4.8	SIP	Vertical	296-20091-ND◆	15.51	13.97	12.39	PT5027N
4.75 ~ 7.0	-6.0 @ 1.0	6.0	SIP	Horizontal	296-20092-ND◆	15.51	13.97	12.39	PT5030A
4.75 ~ 7.0	-6.0 @ 1.0	6.0	SMD	Horizontal	296-20093-ND	15.51	13.97	12.39	PT5030C
4.75 ~ 7.0	-6.0 @ 1.0	6.0	SIP	Vertical	296-20094-ND	15.51	13.97	12.39	PT5030N
4.75 ~ 7.0	-1.7 @ 1.0	1.7	SMD	Horizontal	296-20095-ND	15.51	13.97	12.39	PT5031C
4.75 ~ 7.0	-1.7 @ 1.0	1.7	SIP	Vertical	296-20096-ND	15.51	13.97	12.39	PT5031N
4.75 ~ 11.0	12.0 @ 1.0	12.0	SIP	Horizontal	PT5041A-ND◆	15.51	13.97	12.39	PT5041A
4.75 ~ 11.0	12.0 @ 1.0	12.0	SMD	Horizontal	PT5041C-ND	15.51	13.97	12.39	PT5041C
4.75 ~ 11.0	12.0 @ 1.0	12.0	SIP	Vertical	PT5041N-ND◆	15.51	13.97	12.39	PT5041N
4.75 ~ 14.0	15.0 @ 0.75	11.3	SIP	Horizontal	PT5042A-ND	15.51	13.97	12.39	PT5042A
4.75 ~ 14.0	15.0 @ 0.75	11.3	SIP	Vertical	296-20097-ND◆	15.51	13.97	12.39	PT5042N
4.75 ~ 7.0	8.0 @ 1.5	12.0	SMD	Horizontal	296-20098-ND◆	15.51	13.97	12.39	PT5044C
4.75 ~ 7.0	8.0 @ 1.5	12.0	SIP	Vertical	296-20099-ND◆	15.51	13.97	12.39	PT5044N
4.75 ~ 8.0	9.0 @ 1.2	10.8	SIP	Horizontal	296-20100-ND◆	15.51	13.97	12.39	PT5045A
4.75 ~ 9.0	10.0 @ 1.2	12.0	SIP	Horizontal	296-20101-ND◆	15.51	13.97	12.39	PT5046A
4.75 ~ 9.0	10.0 @ 1.2	12.0	SMD	Horizontal	296-20102-ND◆	15.51	13.97	12.39	PT5046C
4.75 ~ 9.0	10.0 @ 1.2	12.0	SIP	Vertical	296-20103-ND◆	15.51	13.97	12.39	PT5046N
4.75 ~ 11.6	12.6 @ 1.0	12.6	SIP	Horizontal	296-20104-ND◆	15.51	13.97	12.39	PT5048A
4.75 ~ 11.6	12.6 @ 1.0	12.6	SMD	Horizontal	296-20105-ND◆	15.51	13.97	12.39	PT5048C
4.75 ~ 14.0	20.0 @ 0.5	10.0	SIP	Horizontal	PT5049A-ND	15.51	13.97	12.39	PT5049A
4.75 ~ 14.0	20.0 @ 0.5	10.0	SMD	Horizontal	296-20106-ND◆	15.51	13.97	12.39	PT5049C
4.75 ~ 14.0	20.0 @ 0.5	10.0	SIP	Vertical	296-20107-ND	15.51	13.97	12.39	PT5049N
4.75 ~ 11.0	±12.0 @ 0.5	6.0	SIP	Horizontal	PT5061A-ND	15.87	14.82	13.76	PT5061A
4.75 ~ 11.0	±12.0 @ 0.5	6.0	SMD	Horizontal	PT5061C-ND	15.87	14.82	13.76	PT5061C
4.75 ~ 11.0	±12.0 @ 0.5	6.0	SIP	Vertical	PT5061N-ND	15.87	14.82	13.76	PT5061N
4.75 ~ 14.0	±15.0 @ 0.4	6.0	SIP	Horizontal	PT5062A-ND	15.87	14.82	13.76	PT5062A
4.75 ~ 14.0	±15.0 @ 0.4	6.0	SMD	Horizontal	296-20108-ND	15.87	14.82	13.76	PT5062C
4.75 ~ 14.0	±15.0 @ 0.4	6.0	SIP	Vertical	296-20109-ND	15.87	14.82	13.76	PT5062N
4.5 ~ 5.5	3.3 @ 6.0	19.8	SIP	Horizontal	PT5401A-ND◆	17.40	16.24	15.08	PT5401A
4.5 ~ 5.5	2.5 @ 6.0	15.0	SIP	Horizontal	PT5402A-ND◆	17.40	16.24	15.08	PT5402A
4.5 ~ 5.5	3.3 @ 3.0	9.9	SIP	Horizontal	PT5501A-ND	20.72	19.34	17.96	PT5501A
4.5 ~ 5.5	3.3 @ 3.0	9.9	SMD	Horizontal	PT5501C-ND	20.72	19.34	17.96	PT5501C
4.5 ~ 5.5	3.3 @ 3.0	9.9	SIP	Vertical	PT5501N-ND	20.72	19.34	17.96	PT5501N
3.1 ~ 5.5	2.5 @ 3.0	7.5	SIP	Horizontal	PT5502A-ND	20.72	19.34	17.96	PT5502A
3.1 ~ 5.5	1.8 @ 3.0	5.4	SIP	Horizontal	PT5504A-ND	20.72	19.34	17.96	PT5504A
3.1 ~ 5.5	1.5 @ 3.0	4.5	SIP	Horizontal	PT5505A-ND	20.72	19.34	17.96	PT5505A
3.1 ~ 5.5	1.2 @ 3.0	3.6	SIP	Horizontal	PT5506A-ND	20.72	19.34	17.96	PT5506A
4.5 ~ 7.0	8.0 @ 1.75	14.0	SMD	Horizontal	296-20133-ND◆	15.51	13.97	12.39	PT5544C
4.5 ~ 5.5	3.3 @ 18.0	59.4	SMD	Horizontal	296-20134-ND◆	33.09	30.89	28.68	PT5801C
4.5 ~ 5.5	3.3 @ 18.0	59.4	SIP	Vertical	296-20135-ND	33.09	30.89	28.68	PT5801N
4.5 ~ 5.5	2.5 @ 18.0	45.0	SIP	Horizontal	296-20136-ND	33.09	30.89	28.68	PT5802A
4.5 ~ 5.5	2.5 @ 18.0	45.0	SIP	Vertical	296-20137-ND	33.09	30.89	28.68	PT5802N
4.5 ~ 5.5	1.8 @ 18.0	32.4	SMD	Horizontal	296-20138-ND◆	33.09	30.89	28.68	PT5803C
4.5 ~ 5.5	1.8 @ 18.0	32.4	SIP	Vertical	296-20139-ND	33.09	30.89	28.68	PT5803N
4.5 ~ 5.5	1.2 @ 18.0	21.6	SIP	Horizontal	296-20140-ND	33.09	30.89	28.68	PT5805A
4.5 ~ 5.5	1.2 @ 18.0	21.6	SMD	Horizontal	296-20141-ND	33.09	30.89	28.68	PT5805C
4.5 ~ 5.5	1.2 @ 18.0	21.6	SIP	Vertical	296-20142-ND	33.09	30.89	28.68	PT5805N
4.5 ~ 5.5	1.0 @ 18.0	18.0	SIP	Horizontal	296-20143-ND◆	33.09	30.89	28.68	PT5806A
4.5 ~ 9.0	3.3 @ 3.0	9.9	SMD	Horizontal	PT6305C-ND	26.91	25.12	23.33	PT6305C
4.5 ~ 5.5	3.3 @ 3.0	9.9	SIP	Horizontal	PT6405D-ND◆	27.03	25.23	23.43	PT6405D
4.5 ~ 5.5	3.3 @ 3.0	9.9	SMD	Horizontal	PT6405E-ND	27.03	25.23	23.43	PT6405E
4.5 ~ 5.5	3.3 @ 3.0	9.9	SIP	Vertical	PT6405P-ND	27.03	25.23	23.43	PT6405P
4.5 ~ 5.5	3.3 @ 6.0	19.8	SMD	Horizontal	296-22735-ND	35.76	33.38	31.00	PT6441C
4.5 ~ 5.5	3.3 @ 14.0	46.2	SIP	Horizontal	296-20169-ND	33.66	31.42	29.18	PT6461A
4.5 ~ 5.5	3.3 @ 14.0	46.2	SMD	Horizontal	296-20170-ND◆	33.66	31.42	29.18	PT6461C
4.5 ~ 5.5	3.3 @ 14.0	46.2	SIP	Vertical	296-20171-ND◆	33.66	31.42	29.18	PT6461N
4.5 ~ 5.5	2.5 @ 14.0	35.0	SIP	Horizontal	296-20172-ND	25.76	24.04	22.33	PT6462A
4.5 ~ 5.5	2.5 @ 14.0	35.0	SMD	Horizontal	296-20173-ND	25.76	24.04	22.33	PT6462C
4.5 ~ 5.5	2.0 @ 14.0	28.0	SIP	Horizontal	296-20174-ND	25.76	24.04	22.33	PT6463A
4.5 ~ 5.5	2.0 @ 14.0	28.0	SMD	Horizontal	296-20175-ND	25.76	24.04	22.33	PT6463C
4.5 ~ 5.5	1.8 @ 14.0	25.2	SIP	Horizontal	296-20176-ND	25.76	24.04	22.33	PT6464A
4.5 ~ 5.5	1.5 @ 14.0	21.0	SIP	Horizontal	296-20177-ND	25.76	24.04	22.33	PT6465A
4.5 ~ 5.5	1.2 @ 14.0	16.8	SIP	Horizontal	296-20178-ND	25.76	24.04	22.33	PT6466A
4.5 ~ 5.5	1.2 @ 14.0	16.8	SMD	Horizontal	296-20179-ND	25.76	24.04	22.33	PT6466C
4.5 ~ 5.5	1.2 @ 14.0	16.8	SIP	Vertical	296-20180-ND◆	25.76	24.04	22.33	PT6466N
4.5 ~ 5.5	1.0 @ 14.0	14.0	SMD	Horizontal	296-20181-ND	25.76	24.04	22.33	PT6467C
4.5 ~ 5.5	1.0 @ 14.0	14.0	SIP	Vertical	296-20182-ND	25.76	24.04	22.33	PT6467N
4.5 ~ 5.5	3.3 @ 8.0	26.4	SIP	Horizontal	PT6521D-ND	36.60	34.16	31.72	PT6521D
4.5 ~ 5.5	3.3 @ 8.0	26.4	SIP	Vertical	PT6521P-ND	36.60	34.16	31.72	PT6521P
4.5 ~ 6.0	3.3 @ 7.0	23.1	SIP	Horizontal	PT6601D-ND	33.72	31.48	29.23	PT6601D
4.5 ~ 6.0	3.3 @ 7.0	23.1	SMD	Horizontal	PT6601E-ND	33.72	31.48	29.23	PT6601E
4.5 ~ 6.0	3.3 @ 7.0	23.1	SIP	Vertical	PT6601P-ND	33.72	31.48	29.23	PT6601P
4.5 ~ 5.5	12.0 @ 2.0	24.0	SIP	Horizontal	PT6674D-ND	27.86	26.00	24.15	PT6674D
4.5 ~ 5.5	12.0 @ 2.0	24.0	SIP	Vertical	296-20200-ND	27.86	26.00	24.15	PT6674P
4.5 ~ 5.5	1.3 ~ 3.5 @ 13.0	45.5	SIP	Horizontal	PT6701A-ND	31.11	29.04	26.97	PT6701A
4.5 ~ 5.5	1.3 ~ 3.5 @ 13.0	45.5	SMD	Horizontal	PT6701C-ND	31.11	29.04	26.97	PT6701C
4.5 ~ 5.5	1.3 ~ 3.5 @ 13.0	45.5	SIP	Vertical	PT6701N-ND	31.11	29.04	26.97	PT6701N
4.5 ~ 5.5	-4.4 ~ -1.4 @ 6.0	8.4	SMD	Horizontal	296-20218-ND	45.30	42.28	39.26	PT6911C
4.5 ~ 5.5	-4.4 ~ -1.4 @ 6.0	8.4	SIP	Vertical	296-20219-ND◆	45.30	42.28	39.26	PT6911N
4.5 ~ 5.5	3.3 @ 6.0	19.8	SIP	Horizontal	PT6931A-ND	45.30	42.28	39.26	PT6931A
4.5 ~ 5.5	3.3 @ 6.0	19.8	SMD	Horizontal	PT6931C-ND	45.30	42.28	39.26	PT6931C
4.5 ~ 5.5	3.3 @ 6.0	19.8	SIP	Vertical	296-20222-ND	45.30	42.28	39.26	PT6931N
4.5 ~ 5.5	3.3 @ 6.0	19.8	SMD	Horizontal	PT6932C-ND	45.30	42.28	39.26	PT6932C
4.5 ~ 5.5	3.3 @ 6.0	19.8	SMD	Horizontal	296-20223-ND◆	45.30	42.28	39.26	PT6933C
4.5 ~ 5.5	3.3 @ 6.0	19.8	SIP	Vertical	296-20224-ND	45.30	42.28	39.26	PT6933N
3.1 ~ 5.5	2.5 @ 9.5	23.8	SIP	Horizontal	296-20225-ND◆	47.25	44.10	40.95	PT6935A
4.5 ~ 5.5	3.3 @ 11.0	36.3	SIP	Horizontal	296-20226-ND	47.25	44.10	40.95	PT6936A
4.5 ~ 5.5	3.3 @ 11.0	36.3	SIP	Vertical	296-20227-ND	47.25	44.10	40.95	PT6936N
4.5 ~ 5.5	3.3 @ 10.0	33.0	SIP	Horizontal	296-20228-ND◆	47.25	44.10	40.95	PT6937A
4.5 ~ 5.5	3.3 @ 10.0	33.0	SMD	Horizontal	296-20229-ND◆	47.25	44.10	40.95	PT6937C
4.5 ~ 5.5	3.3 @ 10.0	33.0	SIP	Vertical	296-20230-ND	47.25	44.10	40.95	PT6937N
4.5 ~ 5.5	3.3 @ 8.6	28.4	SMD	Horizontal	296-20231-ND	47.25	44.10	40.95	PT6938C
3.1 ~ 5.5	2.5 @ 9.0	22.5	SMD	Horizontal	296-20232-ND	47.25	44.10	40.95	PT6939C
4.5 ~ 5.5	3.3 @ 6.0	19.8	SIP	Horizontal	296-20233-ND	55.88	52.15	48.43	PT6941A
4.5 ~ 5.5	3.3 @ 6.0	19.8	SMD	Horizontal	296-20234-ND	55.88	52.15	48.43	PT6941C
4.5 ~ 5.5	3.3 @ 6.0	19.8	SIP	Vertical	296-20235-ND	55.88	52.15	48.43	PT6941N
4.5 ~ 5.5	3.3 @ 6.0	19.8	SIP	Vertical	296-20236-ND	55.88	52.15	48.43	PT6943N
3.1 ~ 5.5	2.5 @ 6.0	15.0	SIP	Horizontal	296-20237-ND	55.88	52.15	48.43	PT6946A
3.1 ~ 5.5	2.5 @ 6.0	15.0	SMD	Horizontal	296-20238-ND	55.88	52.15	48.43	PT6946C
3.1 ~ 5.5	2.5 @ 6.0	15.0	SMD	Horizontal	296-20239-ND◆	55.88	52.15	48.43	PT6947C
4.5 ~ 5.5	1.3 ~ 3.5 @ 29.0	101.5	SIP	Horizontal	296-20245-ND	44.37	41.42	38.46	PT7671A
4.5 ~ 5.5	1.3 ~ 3.5 @ 29.0	101.5	SMD	Horizontal	296-20246-ND	44.37	41.42	38.46	PT7671C
4.5 ~ 5.5	1.075 ~ 1.85 @ 29.0	53.7	SIP	Horizontal	296-20247-ND	44.37	41.42	38.46	PT7675A
4.5 ~ 5.5	1.075 ~ 1.85 @ 29.0	53.7	SMD	Horizontal	296-20248-ND	44.37	41.42	38.46	PT7675C

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Plug-In Power Modules Non-Isolated POL *(Cont.)*

Input Voltage Range (VDC)	Primary Output Voltage @ Maximum Current (VDC @ A)	Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						1	25	100	
4.5 ~ 5.5	2.0 ~ 3.5 @ 29.0	101.5	SIP	Vertical	296-20249-ND	44.37	41.42	38.46	PT7681N
4.5 ~ 5.5	1.3 ~ 3.5 @ 20.0	70.0	SIP	Horizontal	PT7711A-ND	61.65	57.54	53.43	PT7711A
4.5 ~ 5.5	1.3 ~ 3.5 @ 20.0	70.0	SMD	Horizontal	PT7711C-ND	61.65	57.54	53.43	PT7711C
4.5 ~ 5.5	0.9 ~ 3.6 @ 6.0	21.6	SMD	Horizontal	296-20400-ND	11.50	10.35	9.18	PTH05000WAS
4.5 ~ 5.5	0.9 ~ 3.6 @ 6.0	21.6	SMD	Horizontal	296-20401-ND◆	11.50	10.35	9.18	PTH05000WAZ
4.5 ~ 5.5	0.8 ~ 3.6 @ 15.0	54.0	DIP	Horizontal	296-20402-ND◆	16.53	15.43	14.33	PTH05010WAH
4.5 ~ 5.5	0.8 ~ 3.6 @ 15.0	54.0	SMD	Horizontal	296-20403-ND	16.53	15.43	14.33	PTH05010WAS
4.5 ~ 5.5	0.8 ~ 3.6 @ 15.0	54.0	SMD	Horizontal	296-20404-ND◆	16.53	15.43	14.33	PTH05010WAZ
4.5 ~ 5.5	0.55 ~ 1.8 @ 15.0	27.0	DIP	Horizontal	296-20405-ND	16.53	15.43	14.33	PTH05010YAH
4.5 ~ 5.5	0.55 ~ 1.8 @ 15.0	27.0	SMD	Horizontal	296-20406-ND	16.53	15.43	14.33	PTH05010YAS
4.5 ~ 5.5	0.55 ~ 1.8 @ 15.0	27.0	SMD	Horizontal	296-20407-ND◆	16.53	15.43	14.33	PTH05010YAZ
4.5 ~ 5.5	0.8 ~ 3.6 @ 22.0	79.2	DIP	Horizontal	296-20408-ND◆	21.38	19.95	18.53	PTH05020WAH
4.5 ~ 5.5	0.8 ~ 3.6 @ 22.0	79.2	SMD	Horizontal	296-20409-ND	21.38	19.95	18.53	PTH05020WAS
4.5 ~ 5.5	0.8 ~ 3.6 @ 22.0	79.2	SMD	Horizontal	296-20410-ND◆	21.38	19.95	18.53	PTH05020WAZ
4.5 ~ 5.5	0.8 ~ 3.6 @ 30.0	108.0	DIP	Horizontal	296-20411-ND◆	24.23	22.61	21.00	PTH05030WAH
4.5 ~ 5.5	0.8 ~ 3.6 @ 30.0	108.0	SMD	Horizontal	296-20412-ND	24.23	22.61	21.00	PTH05030WAS
4.5 ~ 5.5	0.8 ~ 3.6 @ 30.0	108.0	SMD	Horizontal	296-20413-ND◆	24.23	22.61	21.00	PTH05030WAZ
4.5 ~ 5.5	0.8 ~ 3.6 @ 6.0	21.6	DIP	Horizontal	296-20414-ND◆	10.93	9.84	8.73	PTH05050WAH
4.5 ~ 5.5	0.8 ~ 3.6 @ 6.0	21.6	SMD	Horizontal	296-20415-ND	10.93	9.84	8.73	PTH05050WAS
4.5 ~ 5.5	0.8 ~ 3.6 @ 6.0	21.6	SMD	Horizontal	296-20416-ND◆	10.93	9.84	8.73	PTH05050WAZ
4.5 ~ 5.5	0.55 ~ 1.8 @ 6.0	10.8	DIP	Horizontal	296-20417-ND	10.93	9.84	8.73	PTH05050YAH
4.5 ~ 5.5	0.55 ~ 1.8 @ 6.0	10.8	SMD	Horizontal	296-20418-ND	10.93	9.84	8.73	PTH05050YAS
4.5 ~ 5.5	0.55 ~ 1.8 @ 6.0	10.8	SMD	Horizontal	296-20419-ND◆	10.93	9.84	8.73	PTH05050YAZ
4.5 ~ 5.5	0.8 ~ 3.6 @ 10.0	36.0	DIP	Horizontal	296-20420-ND◆	15.51	13.97	12.39	PTH05060WAH
4.5 ~ 5.5	0.8 ~ 3.6 @ 10.0	36.0	SMD	Horizontal	296-20421-ND	15.51	13.97	12.39	PTH05060WAS
4.5 ~ 5.5	0.8 ~ 3.6 @ 10.0	36.0	SMD	Horizontal	296-20422-ND◆	15.51	13.97	12.39	PTH05060WAZ
4.5 ~ 5.5	0.55 ~ 1.8 @ 10.0	18.0	DIP	Horizontal	296-20423-ND	15.51	13.97	12.39	PTH05060YAH
4.5 ~ 5.5	0.55 ~ 1.8 @ 10.0	18.0	SMD	Horizontal	296-20424-ND	15.51	13.97	12.39	PTH05060YAS
4.5 ~ 14.0	0.9 ~ 5.5 @ 2.25	12.4	DIP	Horizontal	296-20429-ND◆	8.56	6.85	5.78	PTH08000WAH
4.5 ~ 14.0	0.9 ~ 5.5 @ 2.25	12.4	SMD	Horizontal	296-20430-ND	8.56	6.85	5.78	PTH08000WAS
4.5 ~ 14.0	0.9 ~ 5.5 @ 2.25	12.4	SMD	Horizontal	296-20431-ND◆	8.56	6.85	5.78	PTH08000WAZ
4.5 ~ 18.0	0.9 ~ 5.5 @ 2.25	10.0	DIP	Horizontal	296-20432-ND◆	8.60	6.88	5.81	PTH08080WAH
4.5 ~ 18.0	0.9 ~ 5.5 @ 2.25	10.0	SMD	Horizontal	296-19803-ND	8.60	6.88	5.81	PTH08080WAS
4.5 ~ 18.0	0.9 ~ 5.5 @ 2.25	10.0	SMD	Horizontal	296-20433-ND◆	8.60	6.88	5.81	PTH08080WAZ
2.9 ~ 7.0	-15.0 ~ -3.3 @ 1.0	6.0	DIP	Horizontal	296-20496-ND◆	13.33	12.00	10.64	PTN04050AAD
2.9 ~ 7.0	-15.0 ~ -3.3 @ 1.0	6.0	SMD	Horizontal	296-19681-ND◆	13.33	12.00	10.64	PTN04050AAS
2.9 ~ 7.0	-15.0 ~ -3.3 @ 1.0	6.0	SMD	Horizontal	296-20497-ND◆	13.33	12.00	10.64	PTN04050AAZ
2.95 ~ 5.5	5.0 ~ 15.0 @ 2.4	12.0	DIP	Horizontal	296-20498-ND◆	13.33	12.00	10.64	PTN04050CAD
2.95 ~ 5.5	5.0 ~ 15.0 @ 2.4	12.0	DIP	Horizontal	296-20499-ND	13.33	12.00	10.64	PTN04050CAH
2.95 ~ 5.5	5.0 ~ 15.0 @ 2.4	12.0	SMD	Horizontal	296-19682-ND	13.33	12.00	10.64	PTN04050CAS
2.95 ~ 5.5	5.0 ~ 15.0 @ 2.4	12.0	SMD	Horizontal	296-20500-ND◆	13.33	12.00	10.64	PTN04050CAZ
4.5 ~ 14	0.6 ~ 5.5 @ 6	33.0	SIP	Vertical	296-22673-5-ND	9.50	8.55	7.59	PTR08060WVD
4.5 ~ 14	0.6 ~ 5.5 @ 10	55.0	SIP	Vertical	296-22773-5-ND	12.66	11.40	10.11	PTR08100WVD
4.5 ~ 5.5	0.8 ~ 3.6 @ 8.0	28.8	SIP	Vertical	296-20988-ND◆	10.93	9.84	8.73	PTV05010WAH
4.5 ~ 5.5	0.8 ~ 3.6 @ 18.0	64.8	SIP	Vertical	296-20526-ND	16.53	15.43	14.33	PTV05020WAH
12V Input									
7.0 ~ 16.0	12.0 @ 1.5	18.0	SIP	Horizontal	PT5071A-ND◆	31.11	29.04	26.97	PT5071A
10.8 ~ 13.2	2.5 @ 16.0	40.0	SMD	Horizontal	296-20151-ND	33.09	30.89	28.68	PT5822C
10.8 ~ 13.2	2.5 @ 16.0	40.0	SIP	Vertical	296-20152-ND	33.09	30.89	28.68	PT5822N
10.8 ~ 13.2	1.8 @ 16.0	28.8	SIP	Horizontal	296-20153-ND	33.09	30.89	28.68	PT5823A
10.8 ~ 13.2	1.8 @ 16.0	28.8	SIP	Vertical	296-20154-ND	33.09	30.89	28.68	PT5823N
10.8 ~ 13.2	1.5 @ 16.0	24.0	SIP	Horizontal	296-20155-ND	33.09	30.89	28.68	PT5824A
10.8 ~ 13.2	1.5 @ 16.0	24.0	SMD	Horizontal	296-20156-ND	33.09	30.89	28.68	PT5824C
10.8 ~ 13.2	1.5 @ 16.0	24.0	SIP	Vertical	296-20157-ND	33.09	30.89	28.68	PT5824N
9.0 ~ 17.0	1.5 @ 2.0	3.0	SIP	Horizontal	296-20158-ND◆	15.01	13.52	11.99	PT6216D
9.0 ~ 17.0	1.5 @ 2.0	3.0	SMD	Horizontal	296-20159-ND◆	15.56	14.52	13.49	PT6216E
9.0 ~ 17.0	1.5 @ 2.0	3.0	SIP	Vertical	296-20160-ND◆	15.56	14.52	13.49	PT6216P
10.8 ~ 13.2	5.0 @ 6.0	30.0	SIP	Horizontal	PT6341A-ND	26.58	24.81	23.04	PT6341A
10.8 ~ 13.2	3.3 @ 6.0	19.8	SMD	Horizontal	296-20161-ND◆	26.58	24.81	23.04	PT6342C
10.8 ~ 13.2	3.3 @ 6.0	19.8	SIP	Vertical	296-20162-ND◆	26.58	24.81	23.04	PT6342N
10.8 ~ 13.2	2.5 @ 6.0	15.0	SMD	Horizontal	296-20163-ND	26.58	24.81	23.04	PT6343C
10.8 ~ 13.2	2.5 @ 6.0	15.0	SIP	Vertical	296-20164-ND	26.58	24.81	23.04	PT6343N
10.8 ~ 13.2	1.8 @ 6.0	10.8	SMD	Horizontal	296-20165-ND	26.58	24.81	23.04	PT6344C
10.8 ~ 13.2	1.8 @ 6.0	10.8	SIP	Vertical	296-20166-ND	26.58	24.81	23.04	PT6344N
10.8 ~ 13.2	1.5 @ 6.0	9.0	SIP	Vertical	296-20167-ND	26.58	24.81	23.04	PT6345N
10.8 ~ 13.2	1.2 @ 6.0	7.2	SIP	Horizontal	296-20168-ND	26.58	24.81	23.04	PT6346A
9.0 ~ 16.0	5.0 @ 6.0	30.0	SIP	Horizontal	PT6625D-ND◆	36.60	34.16	31.72	PT6625D
9.0 ~ 16.0	5.0 @ 6.0	30.0	SMD	Horizontal	PT6625E-ND	36.60	34.16	31.72	PT6625E
9.0 ~ 16.0	5.0 @ 6.0	30.0	SIP	Vertical	PT6625P-ND◆	36.60	34.16	31.72	PT6625P
8.0 ~ 27.0	-4.7 ~ -2.2 @ 4.0	8.8	SIP	Horizontal	296-20189-ND◆	27.86	26.00	24.15	PT6641D
8.0 ~ 27.0	-4.7 ~ -2.2 @ 4.0	8.8	SIP	Vertical	296-20190-ND	27.86	26.00	24.15	PT6641P
8.0 ~ 25.0	-6.5 ~ -3.0 @ 4.0	12.0	SIP	Horizontal	PT6642D-ND◆	27.86	26.00	24.15	PT6642D
8.0 ~ 25.0	-6.5 ~ -3.0 @ 4.0	12.0	SMD	Horizontal	296-20191-ND◆	27.86	26.00	24.15	PT6642E
8.0 ~ 25.0	-6.5 ~ -3.0 @ 4.0	12.0	SIP	Vertical	PT6642P-ND◆	27.86	26.00	24.15	PT6642P
8.0 ~ 18.0	-13.6 ~ -9.0 @ 2.0	18.0	SIP	Horizontal	296-20192-ND◆	27.86	26.00	24.15	PT6643D
8.0 ~ 18.0	-13.6 ~ -9.0 @ 2.0	18.0	SMD	Horizontal	296-20193-ND◆	27.86	26.00	24.15	PT6643E
8.0 ~ 18.0	-13.6 ~ -9.0 @ 2.0	18.0	SIP	Vertical	PT6643P-ND◆	27.86	26.00	24.15	PT6643P
8.0 ~ 21.0	-10.2 ~ -6.0 @ 2.5	15.0	SIP	Horizontal	296-20194-ND◆	27.86	26.00	24.15	PT6644D
8.0 ~ 21.0	-10.2 ~ -6.0 @ 2.5	15.0	SMD	Horizontal	296-20195-ND	27.86	26.00	24.15	PT6644E
8.0 ~ 21.0	-10.2 ~ -6.0 @ 2.5	15.0	SIP	Vertical	296-20196-ND◆	27.86	26.00	24.15	PT6644P
8.0 ~ 15.0	-17.0 ~ -10.0 @ 1.5	15.0	SMD	Horizontal	296-20197-ND◆	27.86	26.00	24.15	PT6645E
8.0 ~ 15.0	-17.0 ~ -10.0 @ 1.5	15.0	SIP	Vertical	296-20198-ND◆	27.86	26.00	24.15	PT6645P
10.8 ~ 13.2	1.3 ~ 3.5 @ 14.0	49.0	SIP	Horizontal	PT6721A-ND◆	31.11	29.04	26.97	PT6721A
10.8 ~ 13.2	1.3 ~ 3.5 @ 14.0	49.0	SMD	Horizontal	PT6721C-ND	31.11	29.04	26.97	PT6721C
10.8 ~ 13.2	1.3 ~ 3.5 @ 14.0	49.0	SIP	Vertical	296-20205-ND◆	31.11	29.04	26.97	PT6721N
10.8 ~ 13.2	1.1 ~ 1.85 @ 14.0	25.9	SIP	Horizontal	296-20206-ND	31.11	29.04	26.97	PT6722A
10.8 ~ 13.2	2.5 @ 10.5	26.3	SMD	Horizontal	296-20240-ND	47.25	44.10	40.95	PT6981C
10.8 ~ 13.2	3.3 @ 10.5	34.7	SMD	Horizontal	296-20241-ND	47.25	44.10	40.95	PT6982C
10.8 ~ 13.2	3.3 @ 10.5	34.7	SIP	Vertical	296-20242-ND	47.25	44.10	40.95	PT6982N
10.8 ~ 13.2	3.3 @ 9.5	31.4	SIP	Horizontal	296-20243-ND	47.25	44.10	40.95	PT6983A
10.8 ~ 13.2	3.3 @ 9.5	31.4	SMD	Horizontal	296-20244-ND	47.25	44.10	40.95	PT6983C
9.0 ~ 15.0	-12.0 @ 1.0	12.0	SIP	Horizontal	296-20269-ND◆	24.45	22.82	21.19	PT78NR212H
9.0 ~ 15.0	-12.0 @ 1.0	12.0	SMD	Horizontal	296-20270-ND◆	24.45	22.82	21.19	PT78NR212S
9.0 ~ 15.0	-12.0 @ 1.0	12.0	SIP	Vertical	296-20271-ND◆	24.45	22.82	21.19	PT78NR212V
9.0 ~ 15.0	-15.0 @ 1.0	15.0	SIP	Horizontal	296-20272-ND◆	24.45	22.82	21.19	PT78NR215H
9.0 ~ 15.0	-15.0 @ 1.0	15.0	SMD	Horizontal	296-20273-ND◆	24.45	22.82	21.19	PT78NR215S
9.0 ~ 15.0	-15.0 @ 1.0	15.0	SIP	Vertical	296-20274-ND◆	24.45	22.82	21.19	PT78NR215V
9.0 ~ 15.0	-5.2 @ 2.0	10.4	SMD	Horizontal	296-20275-ND◆	24.45	22.82	21.19	PT78NR252S
9.0 ~ 15.0	-5.2 @ 2.0	10.4	SIP	Vertical	296-20276-ND◆	24.45	22.82	21.19	PT78NR252V
10.8 ~ 13.2	1.3 ~ 3.5 @ 30.0	105.0	SIP	Horizontal	PT8121A-ND	70.07	65.40	60.73	PT8121A
10.8 ~ 13.2	1.075 ~ 1.85 @ 30.0	55.5	SIP	Horizontal	296-20304-ND◆	70.07	65.40	60.73	PT8122A
10.8 ~ 13.2	1.05 ~ 1.825 @ 30.0	54.8	SIP	Horizontal	296-20305-ND	70.07	65.40	60.73	PT8124A
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	10.8	DIP	Horizontal	296-20446-ND	11.50	10.35	9.18	PTH12000LAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	10.8	SMD	Horizontal	296-20447-ND	11.50	10.35	9.18	PTH12000LAS
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	10.8	SMD	Horizontal	296-20448-ND◆	11.50	10.35	9.18	PTH12000LAZ
10.8 ~ 13.2	1.2 ~ 5.5 @ 6.0	33.0	DIP	Horizontal	296-20449-ND◆	11.50	10.35	9.18	PTH12000WAH
10.8 ~ 13.2	1.2 ~ 5.5 @ 6.0	33.0	SMD	Horizontal	296-20450-ND	11.50	10.35	9.18	PTH12000WAS

◆ ***RoHS Compliant***

(Continued)

Plug-In Power Modules Non-Isolated POL *(Cont.)*

Input Voltage Range (VDC)	Primary Output Voltage @ Maximum Current (VDC @ A)	Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						1	25	100	
10.8 ~ 13.2	0.8 ~ 1.8 @ 12.0	21.6	DIP	Horizontal	296-20451-ND◆	16.53	15.43	14.33	PTH12010LAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 12.0	21.6	SMD	Horizontal	296-20452-ND	16.53	15.43	14.33	PTH12010LAS
10.8 ~ 13.2	0.8 ~ 1.8 @ 12.0	21.6	SMD	Horizontal	296-20453-ND◆	16.53	15.43	14.33	PTH12010LAZ
10.8 ~ 13.2	1.2 ~ 5.5 @ 12.0	66.0	DIP	Horizontal	296-20454-ND◆	16.53	15.43	14.33	PTH12010WAH
10.8 ~ 13.2	1.2 ~ 5.5 @ 12.0	66.0	SMD	Horizontal	296-20455-ND	16.53	15.43	14.33	PTH12010WAS
10.8 ~ 13.2	1.2 ~ 5.5 @ 12.0	66.0	SMD	Horizontal	296-20456-ND◆	16.53	15.43	14.33	PTH12010WAZ
10.8 ~ 13.2	0.55 ~ 1.8 @ 12.0	21.6	DIP	Horizontal	296-20457-ND	16.53	15.43	14.33	PTH12010YAH
10.8 ~ 13.2	0.55 ~ 1.8 @ 12.0	21.6	SMD	Horizontal	296-20458-ND	16.53	15.43	14.33	PTH12010YAS
10.8 ~ 13.2	0.55 ~ 1.8 @ 12.0	21.6	SMD	Horizontal	296-20459-ND◆	16.53	15.43	14.33	PTH12010YAZ
10.8 ~ 13.2	0.8 ~ 1.8 @ 18.0	32.4	DIP	Horizontal	296-20460-ND◆	21.38	19.95	18.53	PTH12020LAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 18.0	32.4	SMD	Horizontal	296-20461-ND	21.38	19.95	18.53	PTH12020LAS
10.8 ~ 13.2	0.8 ~ 1.8 @ 18.0	32.4	SMD	Horizontal	296-20462-ND◆	21.38	19.95	18.53	PTH12020LAZ
10.8 ~ 13.2	1.2 ~ 5.5 @ 18.0	99.0	DIP	Horizontal	296-20463-ND◆	21.38	19.95	18.53	PTH12020WAH
10.8 ~ 13.2	1.2 ~ 5.5 @ 18.0	99.0	SMD	Horizontal	296-20464-ND	21.38	19.95	18.53	PTH12020WAS
10.8 ~ 13.2	1.2 ~ 5.5 @ 18.0	99.0	SMD	Horizontal	296-20465-ND◆	21.38	19.95	18.53	PTH12020WAZ
10.2 ~ 13.8	0.8 ~ 1.8 @ 26.0	46.8	DIP	Horizontal	296-20466-ND	24.23	22.61	21.00	PTH12030LAH
10.2 ~ 13.8	0.8 ~ 1.8 @ 26.0	46.8	SMD	Horizontal	296-20467-ND	24.23	22.61	21.00	PTH12030LAS
10.2 ~ 13.8	0.8 ~ 1.8 @ 26.0	46.8	SMD	Horizontal	296-20468-ND	24.23	22.61	21.00	PTH12030LAZ
10.2 ~ 13.8	1.2 ~ 5.5 @ 26.0	143.0	DIP	Horizontal	296-20469-ND◆	24.23	22.61	21.00	PTH12030WAH
10.2 ~ 13.8	1.2 ~ 5.5 @ 26.0	143.0	SMD	Horizontal	296-20470-ND	24.23	22.61	21.00	PTH12030WAS
10.2 ~ 13.8	1.2 ~ 5.5 @ 26.0	143.0	SMD	Horizontal	296-20471-ND◆	24.23	22.61	21.00	PTH12030WAZ
8.0 ~ 14.0	0.8 ~ 5.5 @ 50.0	275.0	DIP	Horizontal	296-20472-ND	49.88	46.55	43.23	PTH12040WAH
8.0 ~ 14.0	0.8 ~ 5.5 @ 50.0	275.0	SMD	Horizontal	296-20473-ND	49.88	46.55	43.23	PTH12040WAS
8.0 ~ 14.0	0.8 ~ 5.5 @ 50.0	275.0	SMD	Horizontal	296-20985-ND	49.88	46.55	43.23	PTH12040WAZ
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	10.8	DIP	Horizontal	296-20474-ND◆	15.74	14.18	12.57	PTH12050LAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	10.8	SMD	Horizontal	296-20475-ND	15.74	14.18	12.57	PTH12050LAS
10.8 ~ 13.2	0.8 ~ 1.8 @ 6.0	10.8	SMD	Horizontal	296-20476-ND◆	15.74	14.18	12.57	PTH12050LAZ
10.8 ~ 13.2	1.2 ~ 5.5 @ 6.0	33.0	DIP	Horizontal	296-20477-ND◆	10.93	9.84	8.73	PTH12050WAH
10.8 ~ 13.2	1.2 ~ 5.5 @ 6.0	33.0	SMD	Horizontal	296-20478-ND	10.93	9.84	8.73	PTH12050WAS
10.8 ~ 13.2	1.2 ~ 5.5 @ 6.0	33.0	SMD	Horizontal	296-20479-ND◆	10.93	9.84	8.73	PTH12050WAZ
10.8 ~ 13.2	0.55 ~ 1.8 @ 6.0	10.8	DIP	Horizontal	296-20480-ND◆	10.93	9.84	8.73	PTH12050YAH
10.8 ~ 13.2	0.55 ~ 1.8 @ 6.0	10.8	SMD	Horizontal	296-20481-ND	10.93	9.84	8.73	PTH12050YAS
10.8 ~ 13.2	0.55 ~ 1.8 @ 6.0	10.8	SMD	Horizontal	296-20482-ND◆	10.93	9.84	8.73	PTH12050YAZ
10.8 ~ 13.2	0.8 ~ 1.8 @ 10.0	18.0	DIP	Horizontal	296-20483-ND◆	15.51	13.97	12.39	PTH12060LAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 10.0	18.0	SMD	Horizontal	296-20484-ND	15.51	13.97	12.39	PTH12060LAS
10.8 ~ 13.2	0.8 ~ 1.8 @ 10.0	18.0	SMD	Horizontal	296-20485-ND◆	15.51	13.97	12.39	PTH12060LAZ
10.8 ~ 13.2	1.2 ~ 5.5 @ 10.0	55.0	DIP	Horizontal	296-20486-ND◆	15.51	13.97	12.39	PTH12060WAH
10.8 ~ 13.2	1.2 ~ 5.5 @ 10.0	55.0	SMD	Horizontal	296-20487-ND	15.51	13.97	12.39	PTH12060WAS
10.8 ~ 13.2	1.2 ~ 5.5 @ 10.0	55.0	SMD	Horizontal	296-20488-ND◆	15.51	13.97	12.39	PTH12060WAZ
10.8 ~ 13.2	0.55 ~ 1.8 @ 10.0	18.0	DIP	Horizontal	296-20489-ND◆	15.51	13.97	12.39	PTH12060YAH
10.8 ~ 13.2	0.55 ~ 1.8 @ 10.0	18.0	SMD	Horizontal	296-20490-ND◆	15.51	13.97	12.39	PTH12060YAS
10.8 ~ 13.2	0.55 ~ 1.8 @ 10.0	18.0	SMD	Horizontal	296-20491-ND◆	15.51	13.97	12.39	PTH12060YAZ
7.0 ~ 28.7	-15.0 ~ -3.0 @ 1.5	9.0	DIP	Horizontal	296-20501-ND◆	13.33	12.00	10.64	PTN78000AAH
7.0 ~ 28.7	-15.0 ~ -3.0 @ 1.5	9.0	SMD	Horizontal	296-20502-ND◆	13.33	12.00	10.64	PTN78000AAZ
7.0 ~ 36.0	2.5 ~ 12.6 @ 1.5	18.9	DIP	Horizontal	296-20506-ND◆	13.33	12.00	10.64	PTN78000WAH
7.0 ~ 36.0	2.5 ~ 12.6 @ 1.5	18.9	SMD	Horizontal	296-20507-ND	13.33	12.00	10.64	PTN78000WAS
7.0 ~ 36.0	2.5 ~ 12.6 @ 1.5	18.9	SMD	Horizontal	296-20508-ND◆	13.33	12.00	10.64	PTN78000WAZ
9.0 ~ 29.0	-15.0 ~ -3.0 @ 4.0	12.0	DIP	Horizontal	296-20509-ND	22.50	21.00	19.50	PTN78020AAH
9.0 ~ 29.0	-15.0 ~ -3.0 @ 4.0	12.0	SMD	Horizontal	296-20510-ND	22.50	21.00	19.50	PTN78020AAS
9.0 ~ 29.0	-15.0 ~ -3.0 @ 4.0	12.0	SMD	Horizontal	296-20511-ND◆	22.50	21.00	19.50	PTN78020AAZ
7.0 ~ 36.0	2.5 ~ 12.6 @ 6.0	90.0	DIP	Horizontal	296-20515-ND◆	22.50	21.00	19.50	PTN78020WAH
7.0 ~ 36.0	2.5 ~ 12.6 @ 6.0	90.0	SMD	Horizontal	296-20516-ND	22.50	21.00	19.50	PTN78020WAS
7.0 ~ 36.0	2.5 ~ 12.6 @ 6.0	90.0	SMD	Horizontal	296-20517-ND◆	22.50	21.00	19.50	PTN78020WAZ
9.0 ~ 28.7	-15.0 ~ -3.0 @ 3.0	15.0	DIP	Horizontal	296-20518-ND◆	16.50	15.40	14.30	PTN78060AAH
9.0 ~ 28.7	-15.0 ~ -3.0 @ 3.0	15.0	SMD	Horizontal	296-20519-ND	16.50	15.40	14.30	PTN78060AAS
9.0 ~ 28.7	-15.0 ~ -3.0 @ 3.0	15.0	SMD	Horizontal	296-20520-ND◆	16.50	15.40	14.30	PTN78060AAZ
7.0 ~ 36.0	2.5 ~ 12.6 @ 3.0	45.0	DIP	Horizontal	296-20523-ND◆	16.50	15.40	14.30	PTN78060WAH
7.0 ~ 36.0	2.5 ~ 12.6 @ 3.0	45.0	SMD	Horizontal	296-20524-ND	16.50	15.40	14.30	PTN78060WAS
7.0 ~ 36.0	2.5 ~ 12.6 @ 3.0	45.0	SMD	Horizontal	296-20525-ND◆	16.50	15.40	14.30	PTN78060WAZ
8.0 ~ 14.0	0.8 ~ 3.6 @ 50.0	180.0	DIP	Vertical	296-20527-ND◆	49.88	46.55	43.23	PTV08040WAD
8.0 ~ 14.0	0.8 ~ 3.6 @ 50.0	180.0	DIP	Vertical	296-20528-ND◆	49.88	46.55	43.23	PTV08040WAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 8.0	14.4	SIP	Vertical	296-20989-ND◆	10.93	9.84	8.73	PTV12010LAD
10.8 ~ 13.2	1.2 ~ 5.5 @ 8.0	44.0	SIP	Vertical	296-20531-ND◆	10.93	9.84	8.73	PTV12010WAH
10.8 ~ 13.2	0.8 ~ 1.8 @ 16.0	28.8	SIP	Vertical	296-20532-ND	16.53	15.43	14.33	PTV12020LAH
10.8 ~ 13.2	1.2 ~ 5.5 @ 16.0	88.0	SIP	Vertical	296-20533-ND◆	16.53	15.43	14.33	PTV12020WAD
10.8 ~ 13.2	1.2 ~ 5.5 @ 16.0	88.0	SIP	Vertical	296-20534-ND◆	16.53	15.43	14.33	PTV12020WAH
24V Input									
8.0 ~ 28.0	5.0 @ 3.0	15.0	SIP	Horizontal	78HT305HC-ND◆	30.35	28.33	26.30	78HT305HC
8.0 ~ 28.0	5.0 @ 3.0	15.0	SIP	Vertical	78HT305VC-ND◆	30.35	28.33	26.30	78HT305VC
8.0 ~ 20.0	5.0 @ 3.0	15.0	SIP	Horizontal	78ST305HC-ND◆	30.35	28.33	26.30	78ST305HC
8.0 ~ 20.0	5.0 @ 3.0	15.0	SIP	Vertical	78ST305VC-ND◆	30.35	28.33	26.30	78ST305VC
9.0 ~ 38.0	5.0 @ 1.0	5.0	SIP	Horizontal	PT5101A-ND◆	11.96	10.77	9.55	PT5101A
9.0 ~ 38.0	5.0 @ 1.0	5.0	SMD	Horizontal	PT5101C-ND◆	11.96	10.77	9.55	PT5101C
9.0 ~ 38.0	5.0 @ 1.0	5.0	SIP	Vertical	PT5101N-ND◆	11.96	10.77	9.55	PT5101N
16.0 ~ 38.0	12.0 @ 1.0	12.0	SIP	Horizontal	PT5102A-ND◆	11.96	10.77	9.55	PT5102A
16.0 ~ 38.0	12.0 @ 1.0	12.0	SMD	Horizontal	PT5102C-ND◆	11.96	10.77	9.55	PT5102C
16.0 ~ 38.0	12.0 @ 1.0	12.0	SIP	Vertical	PT5102N-ND◆	11.96	10.77	9.55	PT5102N
9.0 ~ 26.0	3.3 @ 1.0	3.3	SIP	Horizontal	PT5103A-ND◆	11.96	10.77	9.55	PT5103A
9.0 ~ 26.0	3.3 @ 1.0	3.3	SMD	Horizontal	PT5103C-ND◆	11.96	10.77	9.55	PT5103C
9.0 ~ 26.0	3.3 @ 1.0	3.3	SIP	Vertical	PT5103N-ND◆	11.96	10.77	9.55	PT5103N
10.5 ~ 38.0	6.5 @ 1.0	6.5	SIP	Horizontal	296-20110-ND◆	11.96	10.77	9.55	PT5105A
10.5 ~ 38.0	6.5 @ 1.0	6.5	SMD	Horizontal	296-20111-ND	11.96	10.77	9.55	PT5105C
10.5 ~ 38.0	6.5 @ 1.0	6.5	SIP	Vertical	296-20112-ND◆	11.96	10.77	9.55	PT5105N
19.0 ~ 38.0	15.0 @ 1.0	15.0	SIP	Horizontal	296-20113-ND◆	11.96	10.77	9.55	PT5107A
19.0 ~ 38.0	15.0 @ 1.0	15.0	SMD	Horizontal	296-20114-ND◆	11.96	10.77	9.55	PT5107C
19.0 ~ 38.0	15.0 @ 1.0	15.0	SIP	Vertical	296-20115-ND◆	11.96	10.77	9.55	PT5107N
9.6 ~ 38.0	5.6 @ 1.0	5.6	SIP	Horizontal	296-20116-ND◆	11.96	10.77	9.55	PT5109A
9.6 ~ 38.0	5.6 @ 1.0	5.6	SMD	Horizontal	296-20117-ND◆	11.96	10.77	9.55	PT5109C
9.6 ~ 38.0	5.6 @ 1.0	5.6	SIP	Vertical	296-20118-ND◆	11.96	10.77	9.55	PT5109N
13.0 ~ 38.0	9.0 @ 1.0	9.0	SIP	Horizontal	296-20119-ND	11.96	10.77	9.55	PT5110A
13.0 ~ 38.0	9.0 @ 1.0	9.0	SMD	Horizontal	296-20120-ND	11.96	10.77	9.55	PT5110C
13.0 ~ 38.0	9.0 @ 1.0	9.0	SIP	Vertical	296-20121-ND	11.96	10.77	9.55	PT5110N
14.0 ~ 38.0	10.0 @ 1.0	10.0	SIP	Horizontal	296-20122-ND	11.96	10.77	9.55	PT5111A
14.0 ~ 38.0	10.0 @ 1.0	10.0	SMD	Horizontal	296-20123-ND	10.41	9.38	8.32	PT5111C
14.0 ~ 38.0	10.0 @ 1.0	10.0	SIP	Vertical	296-20124-ND	11.96	10.77	9.55	PT5111N
12.0 ~ 38.0	8.0 @ 1.0	8.0	SIP	Horizontal	296-20125-ND◆	11.96	10.77	9.55	PT5112A
12.0 ~ 38.0	8.0 @ 1.0	8.0	SMD	Horizontal	296-20126-ND	11.96	10.77	9.55	PT5112C
12.0 ~ 38.0	8.0 @ 1.0	8.0	SIP	Vertical	296-20127-ND	11.96	10.77	9.55	PT5112N
9.0 ~ 38.0	5.0 @ 1.0	5.0	SIP	Horizontal	PT6101A-ND◆	12.33	11.10	9.85	PT6101A
9.0 ~ 38.0	5.0 @ 1.0	5.0	SMD	Horizontal	PT6101C-ND◆	12.33	11.10	9.85	PT6101C
9.0 ~ 38.0	5.0 @ 1.0	5.0	SIP	Vertical	PT6101N-ND◆	12.33	11.10	9.85	PT6101N
9.0 ~ 26.0	3.3 @ 1.0	3.3	SIP	Horizontal	PT6102A-ND◆	12.33	11.10	9.85	PT6102A
9.0 ~ 26.0	3.3 @ 1.0	3.3	SMD	Horizontal	PT6102C-ND◆	12.33	11.10	9.85	PT6102C
9.0 ~ 26.0	3.3 @ 1.0	3.3	SIP	Vertical	PT6102N-ND	12.33	11.10	9.85	PT6102N
16.0 ~ 38.0	12.0 @ 1.0	12.0	SIP	Horizontal	PT6103A-ND◆	12.33	11.10	9.85	PT6103A

◆ ***RoHS Compliant***

(Continued)

Input Voltage Range (VDC)	Primary Output Voltage @ Maximum Current (VDC @ A)	Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						1	25	100	
16.0 ~ 38.0	12.0 @ 1.0	12.0	SMD	Horizontal	PT6103C-ND◆	12.33	11.10	9.85	PT6103C
16.0 ~ 38.0	12.0 @ 1.0	12.0	SIP	Vertical	PT6103N-ND◆	12.33	11.10	9.85	PT6103N
7.25 ~ 30.0	5.0 @ 2.0	10.0	SIP	Horizontal	PT6202A-ND◆	20.34	18.99	17.63	PT6202A
7.25 ~ 30.0	5.0 @ 2.0	10.0	SIP	Vertical	PT6202N-ND◆	20.34	18.99	17.63	PT6202N
7.0 ~ 26.0	3.3 @ 2.0	6.6	SIP	Horizontal	PT6203A-ND◆	20.34	18.99	17.63	PT6203A
7.0 ~ 26.0	3.3 @ 2.0	6.6	SIP	Vertical	PT6203N-ND◆	20.34	18.99	17.63	PT6203N
14.5 ~ 30.0	12.0 @ 2.0	24.0	SIP	Horizontal	PT6204A-ND◆	20.34	18.99	17.63	PT6204A
14.5 ~ 30.0	12.0 @ 2.0	24.0	SIP	Vertical	PT6204N-ND◆	20.34	18.99	17.63	PT6204N
9.0 ~ 38.0	5.0 @ 2.0	10.0	SIP	Horizontal	PT6212D-ND◆	15.56	14.52	13.49	PT6212D
9.0 ~ 38.0	5.0 @ 2.0	10.0	SMD	Horizontal	PT6212E-ND◆	15.56	14.52	13.49	PT6212E
9.0 ~ 38.0	5.0 @ 2.0	10.0	SIP	Vertical	PT6212P-ND◆	15.56	14.52	13.49	PT6212P
9.0 ~ 26.0	3.3 @ 2.0	6.0	SIP	Horizontal	PT6213D-ND◆	15.56	14.52	13.49	PT6213D
9.0 ~ 26.0	3.3 @ 2.0	6.0	SMD	Horizontal	PT6213E-ND◆	15.56	14.52	13.49	PT6213E
9.0 ~ 26.0	3.3 @ 2.0	6.0	SIP	Vertical	PT6213P-ND◆	15.56	14.52	13.49	PT6213P
16.0 ~ 38.0	12.0 @ 2.0	24.0	SIP	Horizontal	PT6214D-ND◆	15.56	14.52	13.49	PT6214D
16.0 ~ 38.0	12.0 @ 2.0	24.0	SMD	Horizontal	PT6214E-ND	15.56	14.52	13.49	PT6214E
16.0 ~ 38.0	12.0 @ 2.0	24.0	SIP	Vertical	PT6214P-ND◆	15.56	14.52	13.49	PT6214P
9.0 ~ 380	5.0 @ 3.0	15.0	SIP	Horizontal	PT6302A-ND	17.48	16.31	15.15	PT6302A
9.0 ~ 38.0	5.0 @ 3.0	15.0	SMD	Horizontal	PT6302C-ND	17.48	16.31	15.15	PT6302C
9.0 ~ 38.0	5.0 @ 3.0	15.0	SIP	Vertical	PT6302N-ND	17.48	16.31	15.15	PT6302N
9.0 ~ 26.0	3.3 @ 3.0	9.9	SIP	Horizontal	PT6303A-ND◆	17.48	16.31	15.15	PT6303A
9.0 ~ 26.0	3.3 @ 3.0	9.9	SMD	Horizontal	PT6303C-ND◆	17.48	16.31	15.15	PT6303C
9.0 ~ 26.0	3.3 @ 3.0	9.9	SIP	Vertical	PT6303N-ND◆	17.48	16.31	15.15	PT6303N
16.0 ~ 38.0	12.0 @ 3.0	36.0	SIP	Horizontal	PT6304A-ND◆	17.48	16.31	15.15	PT6304A
16.0 ~ 38.0	12.0 @ 3.0	36.0	SMD	Horizontal	PT6304C-ND◆	17.48	16.31	15.15	PT6304C
16.0 ~ 38.0	12.0 @ 3.0	36.0	SIP	Vertical	PT6304N-ND◆	17.48	16.31	15.15	PT6304N
9.0 ~ 28.0	3.3 @ 5.0	16.5	SIP	Vertical	PT6651P-ND	28.62	26.72	24.81	PT6651P
9.0 ~ 28.0	5.0 @ 5.0	25.0	SIP	Horizontal	PT6653D-ND◆	28.62	26.72	24.81	PT6653D
9.0 ~ 28.0	5.0 @ 5.0	25.0	SMD	Horizontal	PT6653E-ND◆	28.62	26.72	24.81	PT6653E
9.0 ~ 28.0	5.0 @ 5.0	25.0	SIP	Vertical	PT6653P-ND◆	28.62	26.72	24.81	PT6653P
9.0 ~ 28.0	12.0 @ 5.0	60.0	SIP	Horizontal	PT6656D-ND◆	28.62	26.72	24.81	PT6656D
9.0 ~ 28.0	12.0 @ 5.0	60.0	SIP	Vertical	PT6656P-ND◆	28.62	26.72	24.81	PT6656P
15.0 ~ 33.0	3.3 @ 5.0	16.5	SIP	Horizontal	296-20207-ND	27.86	26.00	24.15	PT6881A
15.0 ~ 33.0	3.3 @ 5.0	16.5	SMD	Horizontal	296-20208-ND	27.86	26.00	24.15	PT6881C
15.0 ~ 33.0	3.3 @ 5.0	16.5	SIP	Vertical	296-20209-ND	27.86	26.00	24.15	PT6881N
15.0 ~ 36.0	5.0 @ 5.0	25.0	SIP	Horizontal	PT6883A-ND◆	27.86	26.00	24.15	PT6883A
15.0 ~ 36.0	5.0 @ 5.0	25.0	SMD	Horizontal	296-20210-ND◆	27.86	26.00	24.15	PT6883C
15.0 ~ 36.0	5.0 @ 5.0	25.0	SIP	Vertical	296-20211-ND	27.86	26.00	24.15	PT6883N
18.0 ~ 36.0	9.0 @ 5.0	45.0	SIP	Horizontal	296-20212-ND	27.86	26.00	24.15	PT6884A
18.0 ~ 36.0	9.0 @ 5.0	45.0	SMD	Horizontal	296-20213-ND	27.86	26.00	24.15	PT6884C
18.0 ~ 36.0	9.0 @ 5.0	45.0	SIP	Vertical	296-20214-ND	24.23	22.61	21.00	PT6884N
18.0 ~ 36.0	15.0 @ 4.0	60.0	SIP	Horizontal	PT6885A-ND◆	27.86	26.00	24.15	PT6885A
18.0 ~ 36.0	15.0 @ 4.0	60.0	SMD	Horizontal	296-20215-ND	27.86	26.00	24.15	PT6885C
18.0 ~ 36.0	15.0 @ 4.0	60.0	SIP	Vertical	296-20216-ND	27.86	26.00	24.15	PT6885N
18.0 ~ 36.0	12.0 @ 4.0	60.0	SIP	Horizontal	PT6886A-ND◆	27.86	26.00	24.15	PT6886A
18.0 ~ 36.0	12.0 @ 4.0	60.0	SMD	Horizontal	PT6886C-ND	27.86	26.00	24.15	PT6886C
18.0 ~ 36.0	12.0 @ 4.0	60.0	SIP	Vertical	296-20217-ND◆	27.86	26.00	24.15	PT6886N
15.0 ~ 36.0	11.85 ~ 22.0 @ 1.5	33.0	DIP	Horizontal	296-20503-ND◆	13.33	12.00	10.64	PTN78000HAH
15.0 ~ 36.0	11.85 ~ 22.0 @ 1.5	33.0	SMD	Horizontal	296-20504-ND	13.33	12.00	10.64	PTN78000HAS
15.0 ~ 36.0	11.85 ~ 22.0 @ 1.5	33.0	SMD	Horizontal	296-20505-ND◆	13.33	12.00	10.64	PTN78000HAZ
15.0 ~ 36.0	11.85 ~ 22.0 @ 6.0	90.0	DIP	Horizontal	296-20512-ND◆	22.50	21.00	19.50	PTN78020HAH
15.0 ~ 36.0	11.85 ~ 22.0 @ 6.0	90.0	SMD	Horizontal	296-20513-ND	22.50	21.00	19.50	PTN78020HAS
15.0 ~ 36.0	11.85 ~ 22.0 @ 6.0	90.0	SMD	Horizontal	296-20514-ND◆	22.50	21.00	19.50	PTN78020HAZ
15.0 ~ 36.0	11.85 ~ 22.0 @ 3.0	45.0	DIP	Horizontal	296-20521-ND◆	16.50	15.40	14.30	PTN78060HAH
15.0 ~ 36.0	11.85 ~ 22.0 @ 3.0	45.0	SMD	Horizontal	296-20522-ND	16.50	15.40	14.30	PTN78060HAS
Wide Input									
2.0 ~ 28.0	5.0 @ 2.0	10.0	SIP	Horizontal	78HT205HC-ND◆	24.87	23.22	21.56	78HT205HC
2.0 ~ 28.0	5.0 @ 2.0	10.0	SIP	Vertical	78HT205VC-ND	24.87	23.22	21.56	78HT205VC
7.0 ~ 15.0	3.3 @ 2.0	6.0	SIP	Horizontal	78HT233HC-ND◆	24.87	23.22	21.56	78HT233HC
7.0 ~ 15.0	3.3 @ 2.0	6.0	SIP	Vertical	78HT233VC-ND◆	24.87	23.22	21.56	78HT233VC
7.0 ~ 30.0	5.0 @ 1.5	7.5	SIP	Horizontal	78SR105HC-ND	20.72	19.34	17.96	78SR105HC
7.0 ~ 30.0	5.0 @ 1.5	7.5	SMD	Horizontal	78SR105SC-ND◆	20.72	19.34	17.96	78SR105SC
7.0 ~ 30.0	5.0 @ 1.5	7.5	SIP	Vertical	78SR105VC-ND◆	20.72	19.34	17.96	78SR105VC
14.5 ~ 30.0	6.0 @ 1.5	9.0	SIP	Horizontal	78SR106HC-ND◆	20.72	19.34	17.96	78SR106HC
14.5 ~ 30.0	8.0 @ 1.5	12.0	SIP	Horizontal	78SR108HC-ND◆	20.72	19.34	17.96	78SR108HC
14.5 ~ 30.0	12.0 @ 1.5	18.0	SIP	Horizontal	78SR112HC-ND◆	20.72	19.34	17.96	78SR112HC
14.5 ~ 30.0	12.0 @ 1.5	18.0	SMD	Horizontal	78SR112SC-ND◆	20.72	19.34	17.96	78SR112SC
14.5 ~ 30.0	12.0 @ 1.5	18.0	SIP	Vertical	78SR112VC-ND◆	20.72	19.34	17.96	78SR112VC
14.5 ~ 30.0	15.0 @ 1.5	22.5	SIP	Horizontal	78SR115HC-ND◆	20.72	19.34	17.96	78SR115HC
14.5 ~ 30.0	15.0 @ 1.5	22.5	SIP	Vertical	78SR115VC-ND◆	20.72	19.34	17.96	78SR115VC
7.0 ~ 30.0	5.0 @ 1.5	7.0	SIP	Horizontal	78ST105HC-ND◆	20.72	19.34	17.96	78ST105HC
7.0 ~ 30.0	5.0 @ 1.5	7.0	SIP	Vertical	78ST105VC-ND	20.72	19.34	17.96	78ST105VC
14.5 ~ 30.0	12.0 @ 1.5	18.0	SIP	Horizontal	78ST112HC-ND◆	20.72	19.34	17.96	78ST112HC
14.5 ~ 30.0	12.0 @ 1.5	18.0	SMD	Horizontal	78ST112SC-ND◆	20.72	19.34	17.96	78ST112SC
14.5 ~ 30.0	12.0 @ 1.5	18.0	SIP	Vertical	78ST112VC-ND◆	20.72	19.34	17.96	78ST112VC
7.0 ~ 26.0	3.3 @ 1.5	5.0	SIP	Horizontal	78ST133HC-ND◆	20.72	19.34	17.96	78ST133HC
7.0 ~ 26.0	3.3 @ 1.5	5.0	SMD	Horizontal	78ST133SC-ND◆	20.72	19.34	17.96	78ST133SC
7.0 ~ 26.0	3.3 @ 1.5	5.0	SIP	Vertical	78ST133VC-ND◆	20.72	19.34	17.96	78ST133VC
8.0 ~ 20.0	5.0 @ 2.0	10.0	SIP	Horizontal	78ST205HC-ND◆	24.87	23.22	21.56	78ST205HC
8.0 ~ 20.0	5.0 @ 2.0	10.0	SIP	Vertical	78ST205VC-ND◆	24.87	23.22	21.56	78ST205VC
14.5 ~ 28.0	12.0 @ 2.0	24.0	SIP	Horizontal	78ST212HC-ND	32.01	29.88	27.75	78ST212HC
14.5 ~ 28.0	12.0 @ 2.0	24.0	SIP	Vertical	78ST212VC-ND	32.01	29.88	27.75	78ST212VC
9.0 ~ 28.0	5.0 @ 2.0	10.0	SIP	Horizontal	PT78HT205H-ND◆	16.20	15.12	14.04	PT78HT205H
9.0 ~ 28.0	5.0 @ 2.0	10.0	SMD	Horizontal	PT78HT205S-ND◆	16.20	15.12	14.04	PT78HT205S
9.0 ~ 28.0	5.0 @ 2.0	10.0	SIP	Vertical	PT78HT205V-ND◆	16.20	15.12	14.04	PT78HT205V
12.0 ~ 28.0	8.0 @ 2.0	16.0	SIP	Horizontal	296-20250-ND◆	16.20	15.12	14.04	PT78HT208H
12.0 ~ 28.0	8.0 @ 2.0	16.0	SMD	Horizontal	296-20251-ND◆	16.20	15.12	14.04	PT78HT208S
9.0 ~ 15.0	3.3 @ 2.0	6.6	SIP	Horizontal	PT78HT233H-ND◆	16.20	15.12	14.04	PT78HT233H
9.0 ~ 15.0	3.3 @ 2.0	6.6	SMD	Horizontal	PT78HT233S-ND◆	16.20	15.12	14.04	PT78HT233S
9.0 ~ 28.0	5.25 @ 2.0	10.5	SIP	Horizontal	296-20252-ND◆	16.20	15.12	14.04	PT78HT253H
9.0 ~ 28.0	5.25 @ 2.0	10.5	SMD	Horizontal	296-20253-ND◆	16.20	15.12	14.04	PT78HT253S
9.0 ~ 28.0	5.25 @ 2.0	10.5	SIP	Vertical	296-20254-ND◆	16.20	15.12	14.04	PT78HT253V
10.5 ~ 28.0	6.5 @ 2.0	13.0	SMD	Horizontal	296-20255-ND	16.20	15.12	14.04	PT78HT265S
10.5 ~ 28.0	6.5 @ 2.0	13.0	SIP	Vertical	296-20256-ND◆	16.20	15.12	14.04	PT78HT265V
7.0 ~ 25.0	-3.0 @ 1.0	3.0	SIP	Horizontal	296-20257-ND	14.41	12.98	11.51	PT78NR103H
7.0 ~ 25.0	-3.0 @ 1.0	3.0	SMD	Horizontal	296-20258-ND◆	14.41	12.98	11.51	PT78NR103S
7.0 ~ 25.0	-3.0 @ 1.0	3.0	SIP	Vertical	296-20259-ND	14.41	12.98	11.51	PT78NR103V
7.0 ~ 25.0	-5.0 @ 1.0	5.0	SIP	Horizontal	PT78NR105H-ND◆	14.41	12.98	11.51	PT78NR105H
7.0 ~ 25.0	-5.0 @ 1.0	5.0	SMD	Horizontal	PT78NR105S-ND◆	14.41	12.98	11.51	PT78NR105S
7.0 ~ 25.0	-5.0 @ 1.0	5.0	SIP	Vertical	PT78NR105V-ND◆	14.41	12.98	11.51	PT78NR105V
7.0 ~ 21.0	-6.0 @ 0.8	4.8	SIP	Vertical	296-20260-ND	14.41	12.98	11.51	PT78NR106V
7.0 ~ 21.0	-9.0 @ 0.55	5.0	SIP	Horizontal	296-20261-ND◆	14.41	12.98	11.51	PT78NR109H
7.0 ~ 21.0	-9.0 @ 0.55	5.0	SMD	Horizontal	296-20262-ND	14.41	12.98	11.51	PT78NR109S
7.0 ~ 18.0	-12.0 @ 0.4	4.8	SIP	Horizontal	PT78NR112H-ND◆	14.41	12.98	11.51	PT78NR112H
7.0 ~ 18.0	-12.0 @ 0.4	4.8	SMD	Horizontal	PT78NR112S-ND◆	14.41	12.98	11.51	PT78NR112S
7.0 ~ 18.0	-12.0 @ 0.4	4.8	SIP	Vertical	PT78NR112V-ND	14.41	12.98	11.51	PT78NR112V
7.0 ~ 15.0	-15.0 @ 0.3	4.5	SIP	Horizontal	296-20263-ND◆	14.41	12.98	11.51	PT78NR115H
7.0 ~ 15.0	-15.0 @ 0.3	4.5	SMD	Horizontal	296-20264-ND◆	14.41	12.98	11.51	PT78NR115S

◆ ***RoHS Compliant***

(Continued)

Texas Instruments Plug-In Power Modules Non-Isolated POL *(Cont.)*

Input Voltage Range (VDC)	Primary Output Voltage @ Maximum Current (VDC @ A)	Output Power Maximum (W)	Mounting Type	Modular Orientation	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
7.0 ~ 15.0	-15.0 @ 0.3	4.5	SIP	Vertical	296-20265-ND◆	14.41	12.98	11.51	PT78NR115V
7.0 ~ 25.0	-5.2 @ 1.0	5.2	SIP	Horizontal	296-20266-ND◆	14.41	12.98	11.51	PT78NR152H
7.0 ~ 25.0	-5.2 @ 1.0	5.2	SMD	Horizontal	296-20267-ND◆	14.41	12.98	11.51	PT78NR152S
7.0 ~ 25.0	-5.2 @ 1.0	5.2	SIP	Vertical	296-20268-ND	14.41	12.98	11.51	PT78NR152V
9.0 ~ 38.0	5.0 @ 1.5	7.5	SIP	Horizontal	PT78ST105H-ND◆	14.41	12.98	11.51	PT78ST105H
9.0 ~ 38.0	5.0 @ 1.5	7.5	SMD	Horizontal	PT78ST105S-ND◆	14.41	12.98	11.51	PT78ST105S
9.0 ~ 38.0	5.0 @ 1.5	7.5	SIP	Vertical	PT78ST105V-ND◆	14.41	12.98	11.51	PT78ST105V
16.0 ~ 38.0	6.0 @ 1.5	9.0	SMD	Horizontal	296-20277-ND◆	14.41	12.98	11.51	PT78ST106S
16.0 ~ 38.0	6.0 @ 1.5	9.0	SIP	Vertical	PT78ST106V-ND◆	14.41	12.98	11.51	PT78ST106V
16.0 ~ 38.0	7.0 @ 1.5	10.5	SIP	Horizontal	296-20278-ND◆	14.41	12.98	11.51	PT78ST107H
16.0 ~ 38.0	7.0 @ 1.5	10.5	SMD	Horizontal	296-20279-ND◆	14.41	12.98	11.51	PT78ST107S
16.0 ~ 38.0	8.0 @ 1.5	12.0	SIP	Horizontal	296-20280-ND◆	14.41	12.98	11.51	PT78ST108H
16.0 ~ 38.0	8.0 @ 1.5	12.0	SMD	Horizontal	296-20281-ND◆	14.41	12.98	11.51	PT78ST108S
16.0 ~ 38.0	8.0 @ 1.5	12.0	SIP	Vertical	296-20282-ND◆	14.41	12.98	11.51	PT78ST108V
16.0 ~ 38.0	9.0 @ 1.5	13.5	SIP	Horizontal	PT78ST109H-ND	14.41	12.98	11.51	PT78ST109H
16.0 ~ 38.0	9.0 @ 1.5	13.5	SMD	Horizontal	296-20283-ND	14.41	12.98	11.51	PT78ST109S
16.0 ~ 38.0	9.0 @ 1.5	13.5	SIP	Vertical	296-20284-ND	14.41	12.98	11.51	PT78ST109V
16.0 ~ 38.0	10.0 @ 1.5	15.0	SMD	Horizontal	296-20285-ND◆	14.41	12.98	11.51	PT78ST110S
16.0 ~ 38.0	10.0 @ 1.5	15.0	SIP	Vertical	296-20286-ND	14.41	12.98	11.51	PT78ST110V
16.0 ~ 38.0	12.0 @ 1.5	18.0	SIP	Horizontal	PT78ST112H-ND◆	14.41	12.98	11.51	PT78ST112H
16.0 ~ 38.0	12.0 @ 1.5	18.0	SMD	Horizontal	PT78ST112S-ND◆	14.41	12.98	11.51	PT78ST112S
16.0 ~ 38.0	12.0 @ 1.5	18.0	SIP	Vertical	PT78ST112V-ND◆	14.41	12.98	11.51	PT78ST112V
16.0 ~ 38.0	13.9 @ 1.5	20.9	SIP	Horizontal	296-20287-ND	14.41	12.98	11.51	PT78ST114H
16.0 ~ 38.0	13.9 @ 1.5	20.9	SMD	Horizontal	296-20288-ND	14.41	12.98	11.51	PT78ST114S
16.0 ~ 38.0	13.9 @ 1.5	20.9	SIP	Vertical	296-20289-ND◆	14.41	12.98	11.51	PT78ST114V
16.0 ~ 38.0	15.0 @ 1.5	22.5	SIP	Horizontal	PT78ST115H-ND◆	14.41	12.98	11.51	PT78ST115H
16.0 ~ 38.0	15.0 @ 1.5	22.5	SMD	Horizontal	296-20290-ND◆	14.41	12.98	11.51	PT78ST115S
9.0 ~ 26.0	3.3 @ 1.5	5.0	SIP	Horizontal	PT78ST133H-ND◆	14.41	12.98	11.51	PT78ST133H
9.0 ~ 26.0	3.3 @ 1.5	5.0	SMD	Horizontal	PT78ST133S-ND	14.41	12.98	11.51	PT78ST133S
9.0 ~ 26.0	3.3 @ 1.5	5.0	SIP	Vertical	PT78ST133V-ND◆	14.41	12.98	11.51	PT78ST133V
9.0 ~ 38.0	5.25 @ 1.5	7.9	SMD	Horizontal	296-20291-ND◆	14.41	12.98	11.51	PT78ST153S
9.0 ~ 38.0	5.25 @ 1.5	7.9	SIP	Vertical	296-20292-ND◆	14.41	12.98	11.51	PT78ST153V
9.0 ~ 38.0	6.5 @ 1.5	9.8	SMD	Horizontal	296-20293-ND	14.41	12.98	11.51	PT78ST165S
9.0 ~ 38.0	6.5 @ 1.5	9.8	SIP	Vertical	296-20294-ND	14.41	12.98	11.51	PT78ST165V
16.0 ~ 28.0	12.0 @ 2.0	24.0	SIP	Vertical	PT78ST212V-ND◆	24.45	22.82	21.19	PT78ST212V
-9.0 ~ -30.0	-5.0 @ 1.5	7.5	SIP	Horizontal	PT79SR105H-ND◆	16.10	15.03	13.95	PT79SR105H
-9.0 ~ -30.0	-5.0 @ 1.5	7.5	SMD	Horizontal	PT79SR105S-ND	16.95	15.82	14.69	PT79SR105S
-9.0 ~ -30.0	-5.0 @ 1.5	7.5	SIP	Vertical	PT79SR105V-ND	16.20	15.12	14.04	PT79SR105V
-13.0 ~ -30.0	-9.0 @ 1.5	13.5	SIP	Horizontal	296-20295-ND	16.95	15.82	14.69	PT79SR109H
-13.0 ~ -30.0	-9.0 @ 1.5	13.5	SMD	Horizontal	296-20296-ND	16.95	15.82	14.69	PT79SR109S
-13.0 ~ -30.0	-12.0 @ 1.5	18.0	SIP	Horizontal	PT79SR112H-ND	16.95	15.82	14.69	PT79SR112H
-16.0 ~ -30.0	-12.0 @ 1.5	18.0	SMD	Horizontal	296-20297-ND	16.95	15.82	14.69	PT79SR112S
-16.0 ~ -30.0	-12.0 @ 1.5	18.0	SIP	Vertical	PT79SR112V-ND	16.20	15.12	14.04	PT79SR112V
-16.0 ~ -30.0	-15.0 @ 1.5	22.5	SIP	Horizontal	296-20298-ND◆	16.95	15.82	14.69	PT79SR115H
-19.0 ~ -30.0	-15.0 @ 1.5	22.5	SMD	Horizontal	296-20299-ND	16.95	15.82	14.69	PT79SR115S
-19.0 ~ -30.0	-15.0 @ 1.5	22.5	SIP	Vertical	296-20300-ND◆	16.20	15.12	14.04	PT79SR115V
-9.2 ~ -30.0	-5.2 @ 1.5	7.8	SIP	Horizontal	296-20301-ND	16.95	15.82	14.69	PT79SR152H
-9.2 ~ -30.0	-5.2 @ 1.5	7.8	SMD	Horizontal	296-20302-ND◆	16.95	15.82	14.69	PT79SR152S
-9.2 ~ -30.0	-5.2 @ 1.5	7.8	SIP	Vertical	296-20303-ND◆	16.20	15.12	14.04	PT79SR152V
4.75 ~ 14.0	3.6 @ 20.0	72.0	DIP	Horizontal	296-23227-ND◆ ***NEW!***	19.35	18.06	16.77	PTD08A020WAD

◆ ***RoHS Compliant***

Linear Technology DC-DC µModule™ Family

RoHS COMPLIANT

These high-end point-of-load µModule regulators are complete solutions containing the DC-DC controller, MOSFETs, inductor, input and output bypass capacitors and compensation circuitry in only 2.25cm^2. Encapsulated in a 15mm x 15mm x 2.8mm LGA, the innovative packaging protects the solution from the corrosive effects of the outside environment and thermal enhancement provides a highly efficient heat removal mechanism. Resembling the size, form-factor and simplicity of a surface-mount IC, designing with this family of µModule POL solution requires no knowledge in switchmode power supplies, greatly simplifying the task of a digital circuit designer. Despite their small size, these µModule DC/DC regulators are capable of converting a wide range of input supplies from 2.3V to 28V to output voltages as low as 0.6V from 4A to 12A and higher. **Benefits:** • Complete Power Supply • On-Board Inductor • On-Board Power MOSFETs • On-Board DC/DC Controller and MOSFET Drivers • On-Board Compensation Circuit **Minimum Part Count:** • Each µModule converter needs only one resistor to set the output voltage from 0.6V to 5V.

LTM4600 & LTM4602: The LTM4600, is a 10A µModule DC/DC intended for POL solution requiring simpler features. The LTM4602 is rated for 6A and has the same features, footprint and layout as the LTM4600. Each device is offered in two voltage options of 4.5V ~ 20V or 4.5V ~ 28V. **LTM4601 & LTM4603**: The LTM4601 is a full-featured 12A output µModule DC/DC solution. It includes PLL, tracking and margining and remote sensing. The LTM4603 is rated for 6A and has the same features, footprint and layout as the LTM4601. Each device is offered in two voltage options of 4.5V ~ 20V or 4.5V ~ 28V. They allow current sharing by paralleling the outputs of multiple devices for higher load current. **LTM4601-1 & LTM4603-1**: The LTM4601-1 and LTM4603-1 are identical to the LTM4601 and LTM4603, respectively, except the remote sense function is removed. **LTM4604:** LTM4604 is a complete 4A regulator system in a 9mm x 15mm LGA package. The device operates from an input supply range of 2.35V ~ 5.5V, regulates an output voltage from 0.8V ~ 5V, and achieves 93% efficiency when converting a 3.3V input to 2.5V output at up to 4A. **LTM4605:** Is the first device in a new family of buck-boost products and operates from 4.5V ~ 20V, regulates an output voltage from 0.8V ~ 16V and delivers an output power up to 150W. **LTM4607:** Is a high efficiency switching mode buck- boost power supply. Package includes the switching controller, power FETs, and support components. Operating over an input voltage range of 4.5V ~ 36V, the LTM4607 supports an output voltage range of 0.8V to 24V, set by a resistor. This high efficiency design delivers up to 5A continuous current in boost mode (10A in buck mode). Only the inductor, sense resistor, bulk input and output capacitors are needed to finish the design. **LTM4608:** Operates from a supply range of 2.375V ~ 5.5V and regulates the output voltage from 0.8V ~ 5V. The complete circuit is housed in 9mm x 15mm LGA package. **LTM8020:** Is a complete 200mA, DC/DC step down power supply. Package includes the switching controller, power switches, inductor, and all support components. Operating over an input voltage range of 4V ~ 36V, the LTM8020 supports an output voltage range of 1.25V ~ 5V, set by a single resistor. Only bulk capacitors are needed to finish the design. **LTM8022:** Is a complete 1A, DC/DC step-down power supply. Package includes the switching controller, power switches, inductor, and all support components. Operating over an input voltage range of 3.6V ~ 36V, the LTM8022 supports an output voltage range of 0.8V ~ 10V, and a switching frequency range of 200kHz ~ 2.4MHz, each set by a single resistor. Only the bulk input and output filter capacitors are needed to finish the design. **LTM8023:** Is a complete 2A, DC/DC step-down power supply with an input voltage range of 3.6V ~ 36V. It will support an output voltage range of 0.8V ~ 10V, and a switching frequency range of 200kHz ~ 2.4MHz, each set by a single resistor.

Vin Min	Vin Max	Vout Min	Vout Max	Output Current (A)	Supply Current (mA)	Remote Current Sense Amp	Tracking	Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
4.5	20	0.6	5	10	1.2	No	No	0°C ~ 70°C	104-LGA	LTM4600EV#PBF-ND	31.25	22.32	18.38
	20	0.6	5	10	1.2	No	No	-40°C ~ 85°C	104-LGA	LTM4600IV#PBF-ND	34.43	24.59	20.25
	28	0.6	5	10	1.2	No	No	0°C ~ 70°C	104-LGA	LTM4600HVEV#PBF-ND	38.25	27.32	22.50
	28	0.6	5	10	1.2	No	No	-40°C ~ 85°C	104-LGA	LTM4600HVIV#PBF-ND	42.08	30.05	24.75
	20	0.6	5	12	3.8	Yes	Yes	0°C ~ 70°C	118-LGA	LTM4601EV#PBF-ND	35.13	25.05	20.63
	20	0.6	5	12	3.8	No	Yes	0°C ~ 70°C	118-LGA	LTM4601EV-1#PBF-ND	33.90	24.21	19.94
	20	0.6	5	12	3.8	Yes	Yes	-40°C ~ 85°C	118-LGA	LTM4601IV#PBF-ND	38.58	27.55	22.69
	20	0.6	5	12	3.8	No	Yes	-40°C ~ 85°C	118-LGA	LTM4601IV-1#PBF-ND	37.30	26.64	21.94
	28	0.6	5	12	3.8	Yes	Yes	0°C ~ 70°C	118-LGA	LTM4601HVEV#PBF-ND	42.78	30.56	25.19
	28	0.6	5	12	3.8	Yes	Yes	-40°C ~ 85°C	118-LGA	LTM4601HVIV#PBF-ND	47.10	33.65	27.72
	20	0.6	5	6	1.2	No	No	0°C ~ 70°C	104-LGA	LTM4602EV#PBF-ND	25.40	18.14	14.94
	20	0.6	5	6	1.2	No	No	-40°C ~ 85°C	104-LGA	LTM4602IV#PBF-ND	27.95	19.96	16.44
	28	0.6	5	6	1.2	No	No	0°C ~ 70°C	104-LGA	LTM4602HVEV#PBF-ND	30.98	22.13	18.23
	28	0.6	5	6	1.2	No	No	-40°C ~ 85°C	104-LGA	LTM4602HVIV#PBF-ND	34.10	24.36	20.06
	20	0.6	5	6	3.8	Yes	Yes	0°C ~ 70°C	118-LGA	LTM4603EV#PBF-ND	28.70	20.49	16.88
	20	0.6	5	6	3.8	No	Yes	0°C ~ 70°C	118-LGA	LTM4603EV-1#PBF-ND	27.53	19.66	16.19
	20	0.6	5	6	3.8	Yes	Yes	-40°C ~ 85°C	118-LGA	LTM4603IV#PBF-ND	31.55	22.54	18.56
	20	0.6	5	6	3.8	No	Yes	-40°C ~ 85°C	118-LGA	LTM4603IV-1#PBF-ND	30.28	21.63	17.82
	28	0.6	5	6	25	Yes	Yes	0°C ~ 70°C	118-LGA	LTM4603HVEV#PBF-ND	35.00	24.99	20.59
	28	0.6	5	6	25	Yes	Yes	-40°C ~ 85°C	118-LGA	LTM4603HVIV#PBF-ND	36.93	26.38	21.74
2.3	5.5	0.8	5	4	35	No	Yes	0°C ~ 70°C	66-LGA	LTM4604EV#PBF-ND	18.08	12.90	10.63
4.5	20	0.8	16	5	2.8	No	No	-40°C ~ 85°C	141-LGA	LTM4605IV#PBF-ND	44.05	29.55	24.33
	36	0.8	24	5	2.8	No	No	-40°C ~ 85°C	141-LGA	LTM4607EV#PBF-ND ***NEW!***	45.80	30.79	25.35
	36	0.8	24	5	2.8	No	No	-40°C ~ 85°C	141-LGA	LTM4607IV#PBF-ND ***NEW!***	50.38	33.87	27.89
2.375	5.5	0.6	5	8	35	No	Yes	-40°C ~ 85°C	68-LGA	LTM4608IV#PBF-ND	26.43	18.86	15.53
4.0	36	1.2	5	2	.01	No	No	-40°C ~ 85°C	21-LGA	LTM8020EV#PBF-ND ***NEW!***	10.50	7.07	5.82
3.6	36	0.8	10	1	.085	No	No	-40°C ~ 125°C	50-LGA	LTM8022EV#PBF-ND ***NEW!***	10.50	7.07	5.82
	36	0.8	10	2	.085	No	No	0°C ~ 70°C	50-LGA	LTM8023EV#PBF-ND	16.90	11.36	9.35

LINEAGE POWER

DC-DC Converter

Dimensions in mm

Fig. 1

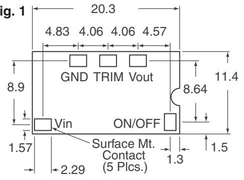

Fig. 2

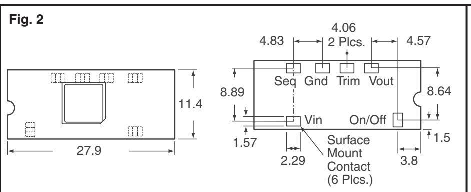

Fig. 3

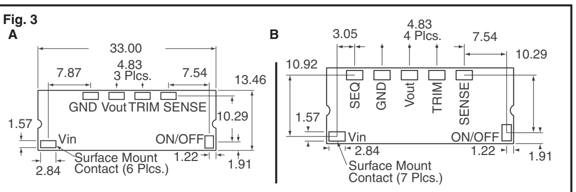

Fig. 4

Pin	Function	Pin	Function
1	On/Off	6	Trim
2	VIN	7	GND
3	GND	8	NC
4	VOut	9	Sequence
5	Sense	10	NC (‡ PGood)

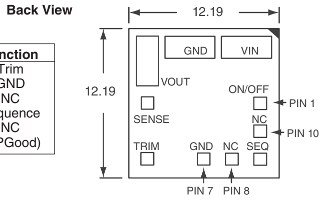

Fig. 5 ***NEW!***

A

Pin	Function
1	ON/OFF
2	VIN
3	SEQ
4	GND
5	TRIM
6	VOUT
7	VS+
8	GND
9	NC
10	NC

B

Pin	Function
1	ON/OFF
2	VIN
3	SEQ
4	GND
5	TRIM
6	VOUT
7	VS+
8	VS-
9	PG
10	SYNC

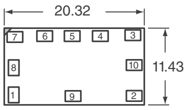

Fig. 6

Pin	Function
1	VOut
2	Trim
3	GND
4	VIN
5	On/Off

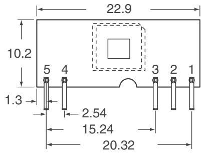

Fig. 7

Pin	Function
1	VOut
2	Trim
3	GND
A	Sequence
4	VIN
5	On/Off

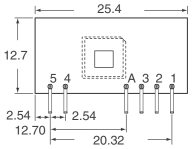

SMT Series

Fig.	V Out	I Out (A)	Input Voltage (V)	On/Off Logic	Remote Sense	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel†		Lineage Power Part No.
							1	10	100	Qty.	Pricing	
1	0.75 ~ 3.3	3	2.4 ~ 5.5	Negative	—	555-1053-1-ND	7.14	6.30	5.63	400	1971.00	AXH003A0X-SRZ
	0.75 ~ 3.3	3	2.4 ~ 5.5	Positive	—	555-1054-1-ND	7.26	6.41	5.73	400	2003.40	AXH003A0X4-SRZ
	0.75 ~ 3.63	5	3.0 ~ 5.5	Negative	—	555-1059-1-ND	12.10	10.40	9.00	500	3982.50	AXH005A0X-SRZ
	0.75 ~ 5.0	5	10 ~ 14	Negative	—	555-1057-1-ND	12.10	10.40	9.00	400	3186.00	AXA005A0X-SRZ
	0.75 ~ 5.0	3	8.3 ~ 14	Negative	—	555-1049-1-ND	7.58	6.68	5.95	400	2079.00	AXA003A0X-SRZ
	0.75 ~ 5.0	3	8.3 ~ 14	Positive	—	555-1050-1-ND	7.70	6.78	6.04	400	2111.40	AXA003A0X4-SRZ
2	0.75 ~ 3.3	6	2.4 ~ 5.5	Negative	—	555-1073-1-ND	13.80	11.60	9.50	400	3402.00	ATH006A0X-SRZ
	0.75 ~ 5.0	6	8.3 ~ 14	Negative	—	555-1069-1-ND	13.80	11.60	9.50	400	3402.00	ATA006A0X-SRZ
	0.75 ~ 5.0	6	8.3 ~ 14	Positive	—	555-1070-1-ND	13.80	11.60	9.50	400	3402.00	ATA006A0X4-SRZ
3A	0.75 ~ 3.3	10	3.0 ~ 5.5	Negative	Yes	555-1063-1-ND	15.80	13.90	12.20	250	2902.50	AXH010A0X3-SRZ
	0.75 ~ 3.63	16	3.0 ~ 5.5	Negative	Yes	555-1067-1-ND	18.40	16.30	14.60	250	3442.50	AXH016A0X3-SRZ
	0.75 ~ 5.0	10	10 ~ 14	Negative	Yes	555-1061-1-ND	15.80	13.90	12.20	250	2902.50	AXA010A0X3-SRZ
	0.75 ~ 5.0	16	10 ~ 14	Negative	Yes	555-1065-1-ND	18.40	16.30	14.60	250	3442.50	AXA016A0X3-SRZ
3B	0.75 ~ 3.3	10	2.4 ~ 5.5	Negative	Yes	555-1081-1-ND	16.90	14.80	12.90	250	3071.25	ATH010A0X3-SRZ
	0.75 ~ 3.3	10	2.4 ~ 5.5	Positive	Yes	555-1082-1-ND	16.90	14.80	12.90	250	3071.25	ATH010A0X43-SRZ
	0.75 ~ 3.3	16	2.4 ~ 5.5	Negative	Yes	555-1089-1-ND	19.90	17.50	15.60	250	3645.00	ATH016A0X3-SRZ
	0.75 ~ 3.3	16	2.4 ~ 5.5	Positive	Yes	555-1090-1-ND	19.90	17.50	15.60	250	3645.00	ATH016A0X43-SRZ
	0.75 ~ 5.0	10	8.3 ~ 14	Negative	Yes	555-1077-1-ND	16.90	14.80	12.90	250	3071.25	ATA010A0X3-SRZ
	0.75 ~ 5.0	10	8.3 ~ 14	Positive	Yes	555-1078-1-ND	16.90	14.80	12.90	250	3071.25	ATA010A0X43-SRZ
	0.75 ~ 5.0	16	8.3 ~ 14	Negative	Yes	555-1085-1-ND	19.90	17.50	15.60	250	3645.00	ATA016A0X3-SRZ
	0.75 ~ 5.0	16	8.3 ~ 14	Positive	Yes	555-1086-1-ND	19.90	17.50	15.60	250	3645.00	ATA016A0X43-SRZ
4	0.60 ~ 3.63	3	2.4 ~ 5.5	Negative	Yes	555-1120-1-ND	7.63	6.74	6.02	400	2106.00	APTH003A0X-SRZ
	0.60 ~ 3.63	3	2.4 ~ 5.5	Negative	Yes	555-1122-1-ND	7.18	6.34	5.67	400	1981.80	APXH003A0X-SRZ
	0.60 ~ 3.63	6	2.4 ~ 5.5	Negative	Yes	555-1121-1-ND	12.98	11.16	9.66	400	3418.20	APTH006A0X-SRZ
	0.60 ~ 3.63	6	2.4 ~ 5.5	Negative	Yes	555-1123-1-ND	12.51	10.76	9.31	400	3294.00	APXH006A0X-SRZ
	0.59 ~ 5.5	3	4.5 ~ 14	Negative	Yes	555-1124-1-ND‡	7.92	6.99	6.25	400	2187.00	APTS003A0X-SRZ
	0.59 ~ 5.5	3	4.5 ~ 14	Negative	No	555-1126-1-ND‡	7.47	6.60	5.90	400	2062.80	APXS003A0X-SRZ
	0.59 ~ 5.5	6	4.5 ~ 14	Negative	Yes	555-1125-1-ND‡	12.68	11.19	10.00	400	3499.20	APTS006A0X-SRZ
	0.59 ~ 5.5	6	4.5 ~ 14	Negative	No	555-1127-1-ND‡	12.23	10.79	9.64	400	3375.00	APXS006A0X-SRZ
5A	0.60 ~ 3.63	12	2.4 ~ 5.5	Negative	Yes	555-1128-1-ND ***NEW!***	19.23	16.97	15.17	250	3317.63	APTH012A0X3-SRZ
5B	0.69 ~ 5.5	12	4.5 ~ 14	Negative	Yes	555-1129-1-ND ***NEW!***	19.52	17.23	15.40	250	3368.25	APTS012A0X3-SRZ

† For Tape and Reel part number, change 1-ND to 2-ND

SIP Series

Fig.	V Out	I Out (A)	Input Volt. (V)	On/Off Logic	Remote Sense	Digi-Key Part No.	Price Each			Lineage Power Part No.
							1	10	100	
6	0.75 ~ 3.3	3	2.4 ~ 5.5	Negative	—	555-1055-ND	7.14	6.30	5.63	AXH003A0XZ
	0.75 ~ 3.3	3	2.4 ~ 5.5	Positive	—	555-1056-ND	7.26	6.41	5.73	AXH003A0X4Z
	0.75 ~ 3.63	5	3.0 ~ 5.5	Negative	—	555-1060-ND	12.10	10.40	9.00	AXH005A0XZ
	0.75 ~ 5.0	3	8.3 ~ 14	Negative	—	555-1051-ND	7.58	6.68	5.95	AXA003A0XZ
	0.75 ~ 5.0	3	8.3 ~ 14	Positive	—	555-1052-ND	7.70	6.78	6.04	AXA003A0X4Z
	0.75 ~ 5.0	5	10 ~ 14	Negative	—	555-1058-ND	12.10	10.40	9.00	AXA005A0XZ
7	0.75 ~ 3.3	6	2.4 ~ 5.5	Negative	—	555-1075-ND	13.80	11.60	9.50	ATH006A0XZ
	0.75 ~ 5.0	6	8.3 ~ 14	Negative	—	555-1071-ND	13.80	11.60	9.50	ATA006A0XZ
8A	0.75 ~ 3.3	10	3.0 ~ 5.5	Negative	Yes	555-1064-ND	15.80	13.90	12.20	AXH010A0X3Z
	0.75 ~ 3.63	16	3.0 ~ 5.5	Negative	Yes	555-1068-ND	18.40	16.30	14.60	AXH016A0X3Z
	0.75 ~ 5.0	10	10 ~ 14	Negative	Yes	555-1062-ND	15.80	13.90	12.20	AXA010A0X3Z
	0.75 ~ 5.0	16	10 ~ 14	Negative	Yes	555-1066-ND	18.40	16.30	14.60	AXA016A0X3Z
8B	0.75 ~ 3.3	10	2.4 ~ 5.5	Positive	Yes	555-1084-ND	16.90	14.80	12.90	ATH010A0X43Z
	0.75 ~ 3.3	16	2.4 ~ 5.5	Negative	Yes	555-1091-ND	19.90	17.50	15.60	ATH016A0X3Z
	0.75 ~ 5.0	10	8.3 ~ 14	Negative	Yes	555-1079-ND	16.90	14.80	12.90	ATA010A0X3Z
	0.75 ~ 5.0	16	8.3 ~ 14	Negative	Yes	555-1087-ND	19.90	17.50	15.60	ATA016A0X3Z
9	0.8 ~ 3.63	25	4.5 ~ 5.5	Negative	Yes	555-1093-ND	23.46	20.70	18.29	ATH025A0X3Z
	0.8 ~ 5.0	25	6.0 ~ 14	Negative	Yes	555-1095-ND	23.46	20.70	18.29	ATS025A0X3Z
	0.8 ~ 3.63	30	4.5 ~ 5.5	Negative	Yes	555-1094-ND▲	23.46	20.70	18.29	ATH030A0X3Z
	0.8 ~ 5.0	25	6.0 ~ 14	Negative	Yes	555-1097-ND	25.35	22.48	19.97	ATS025A0X3-PZ
10	0.59 ~ 6.0	3	4.5 ~ 14	Positive	—	555-1130-ND ***NEW!***	8.67	7.63	6.70	NSR003A0X4Z
	0.59 ~ 6.0	6	4.5 ~ 14	Positive	—	555-1131-ND ***NEW!***	12.55	11.04	9.69	NSR006A0X4Z
	0.59 ~ 6.0	10	4.5 ~ 14	Positive	—	555-1132-ND ***NEW!***	15.60	13.72	12.04	NSR010A0X4Z

Fig.8

Pin	Function	Pin	Function
1	VOut	7	VIN
2	VOut	8	VIN
3	VO Sense	B	Sequence
4	VOut	9	TRIM
5	GND	10	ON/OFF
6	GND		

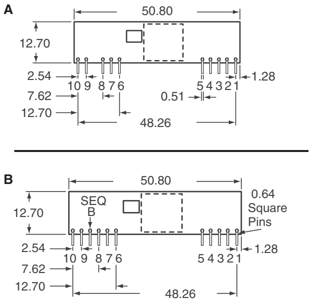

Fig. 9

Pin	Function	Pin	Function
1	VOut	8	GND
2	VOut	9	VIN
3	Sense	10	VIN
4	VOut	11	SEQ
5	GND	12	Trim
6	GND▲	13	On/Off
7	Share		

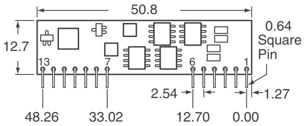

▲ Pin 6 is added only in ATH030A0X3Z version.

Fig. 10 ***NEW!***

Pin	Function
1	Enable
2	Vin
3	GND
4	Vout
5	Trim+

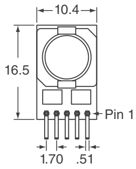

DC-DC Converters and Filters

Fig. 1

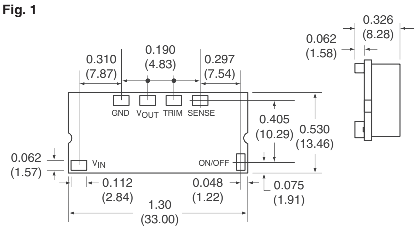

Fig. 2

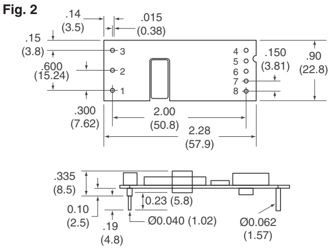

Pin	Function
1	Vi +
2	On/Off
3	Vi -
4	Vo -
5	Sense -
6	Trim
7	Sense +
8	Vo +

Fig. 3

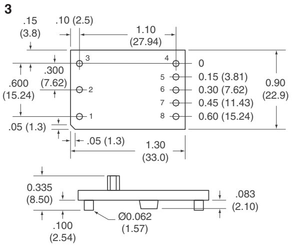

Pin	Function
1	Vin +
2	On/Off
3	Vin -
4	Vo -
5	Sense -
6	Trim
7	Sense +
8	Vo +

Fig. 4

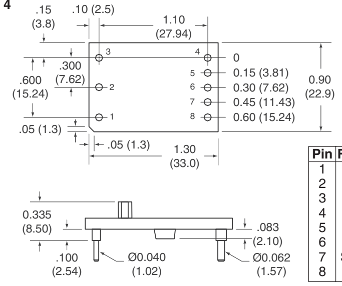

Pin	Function
1	Vin +
2	On/Off
3	Vin -
4	Vo -
5	Sense -
6	Trim
7	Sense +
8	Vo +

Fig. 5

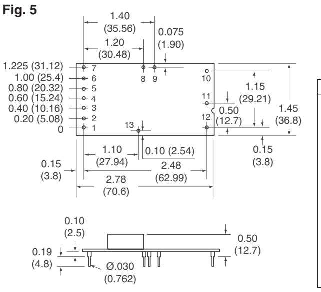

Pin	Function
1	-48_AF
2	-48_BF
3	VRTN_AF
4	VRTN_BF
5	Enable_AF
6	Enable_BF
7	Shelf_GND
8	72V_Cap
9	-48V_Out
10	Mgmt_Pwr
11	Logic_GND
12	-48V_Alarm
13	VRTN_Out

Fig. 6

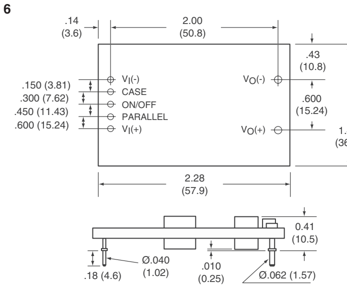

Fig. 7

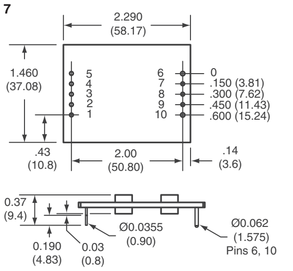

Pin	Function
1	Vi +
2	N/A
3	On/Off
4	Case*
5	Vi -
6	Vo -
7	Sense -
8	Trim
9	Sense +
10	Vo +

Fig. 8

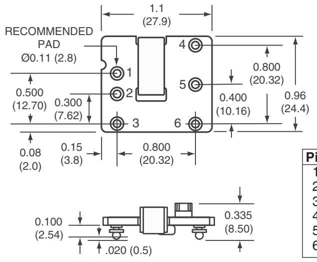

Pin	Function
1	Vin +
2	Vin -
3	On/Off
4	Vout +
5	TRIM
6	Vout -

Fig. 9

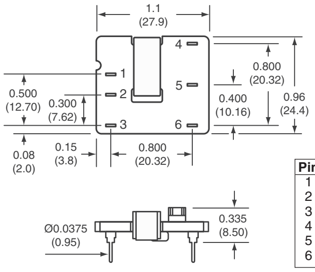

Pin	Function
1	Vin +
2	Vin -
3	On/Off
4	Vout +
5	TRIM
6	Vout -

Fig. 10

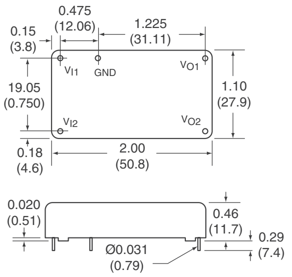

Fig. 11

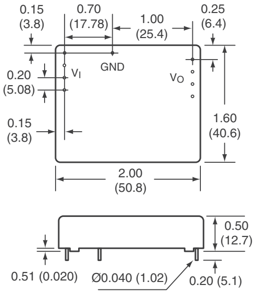

Fig. 12

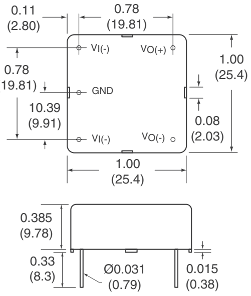

Fig.	Output Voltage	I Out (A)	Input Voltage	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing	Lineage Power Part No.
Converters										
1	3.0 ~ 6.0	10.0	18 ~ 30	555-1106-1-ND†	23.00	20.19	18.13	555-1106-2-ND	3813.75/250	AXB030X43-SRZ
2	3.3	20.0	36 ~ 75	555-1100-ND	52.08	45.98	41.43	—	—	EQW020A0F1Z
3	3.3	15.0	36 ~ 75	555-1104-1-ND†	55.20	48.71	43.84	555-1104-2-ND	5386.50/140	KW015A0F41-SRZ
4	3.3	15.0	36 ~ 75	555-1105-ND	55.20	48.71	43.84	—	—	KW015A0F41Z
5	48.0	2.4	38 ~ 75	555-1108-ND	68.00	60.00	54.00	—	—	PIM200FZ
6	3.3	50.0	36 ~ 75	555-1110-ND	106.00	96.00	86.00	—	—	QPW050A0F1Z
7	3.3	25.0	36 ~ 75	555-1113-ND	71.19	62.86	56.57	—	—	QRW025A0F1Z
7	3.3	35.0	36 ~ 75	555-1114-ND	87.10	76.90	69.20	—	—	QRW035A0F1Z
8	3.3	3.5	36 ~ 75	555-1118-1-ND†	25.90	22.40	20.30	555-1118-2-ND	2652.75/150	SW003A5F91-SRZ
9	3.3	3.5	36 ~ 75	555-1119-ND	25.90	22.40	20.30	—	—	SW003A5F91Z
1	5.0 ~ 15.0	8.0	20 ~ 30	555-1107-1-ND†	23.30	20.50	18.40	555-1107-2-ND	3915.00/250	AXB050X43-SRZ
7	5.0	25.0	36 ~ 75	555-1112-ND	87.10	76.90	69.20	—	—	QRW025A0A1Z
8	5.0	3.0	36 ~ 75	555-1116-1-ND†	25.90	22.40	20.30	555-1116-2-ND	2652.75/150	SW003A0A91-SRZ
9	5.0	3.0	36 ~ 75	555-1117-ND	25.90	22.40	20.30	—	—	SW003A0A91Z
2	12.0	6.0	36 ~ 75	555-1098-ND	52.08	45.98	41.43	—	—	EQW006A0B1Z
6	12.0	18.0	36 ~ 75	555-1109-ND	46.56	43.98	41.16	—	—	QBW018A0B1Z
7	12.0	10.0	36 ~ 75	555-1111-ND	87.10	76.90	69.20	—	—	QRW010A0B1Z
9	12.0	1.2	36 ~ 75	555-1115-ND	25.90	22.40	20.30	—	—	SW001A2B91Z
Filters										
10	—	10	100	555-1101-ND	18.80	16.55	14.40	—	—	FLTR100V10Z
11	—	20	100	555-1102-ND	28.10	25.20	21.95	—	—	FLTR100V20Z
12	—	5.0	75	555-1103-ND	17.00	15.00	13.30	—	—	FLTR75V05Z

† Cut Tape

CXA10 Series — Single and Dual Output 10 Watt

Dim. Inches (mm)

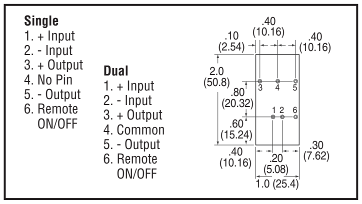

Delivers single and dual output voltages covering 3.3V, 5V, 12V, ±5V, and ±12V.

Features:
- Fully compliant with ETS 300 386-1
- Approved to EN60950, UL1950, CSA C22.2 No. 950
- High demonstrated reliability with conservative component deratings

Input Voltage (VDC)	Output Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
18 ~ 75	3.3	2.0	393-1191-ND	43.60	CXA10-48S3V3J
	5.0	2.0	393-1192-ND	43.60	CXA10-48S05J
	12	0.83	393-1193-ND	43.60	CXA10-48S12J
	±12	0.41	393-1194-ND	47.96	CXA10-48D12J

SMT05E and SMT15E Series Single Output

Non-isolated DC/DC converters packaged in a surface-mount footprint giving designers a cost effective solution for conversion. Ideal solution where board space is at a premium or tighter card pitch is required. The ultra-wide voltage trim range offers major advantages to users. It is no longer necessary to purchase a variety of modules in order to cover different output voltages.

SMTxxE-12W3V3 and SMTxxE-12W3V3J:
- Trim range: 0.8 ~ 3.63V
- Set at default voltage of 0.8V

SMT05E-05W3V3 and SMT05E-05W3V3J:
- Trim range: 0.75 ~ 3.63V
- Set at default voltage of 0.75V
- When Vin ≥ 4.5V, then Vout can be adjusted from 0.75 ~ 3.63V
- When Vin < 4.5V, then Vout can be adjusted from 0.75 ~ 2.75V

SMT15E-05W3V3 and SMT15E-05W3V3J:
- Trim range: 0.8 ~ 3.63V
- Set at default voltage of 3.3V
- When Vin ≥ 4.5V, then Vout can be adjusted from 0.8 ~ 3.63V
- When Vin < 4.5V, then Vout can be adjusted from 0.8 ~ 2.75V

SMT15E-05S3V3, SMT15E-05S2V5, SMT15E-05S3V3J:
- Trim range: 0.8 ~ 3.63V
- Set at default voltage of 3.3V
- When Vin ≥ 4.5V, then Vout can be adjusted from 0.8 ~ 3.6V
- When Vin < 4.5V, then Vout can be adjusted from 0.8 ~ 2.75V

Dim. Inches (mm)

Fig. 1

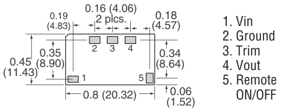

Fig. 2

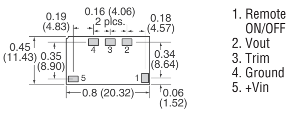

Fig. 3

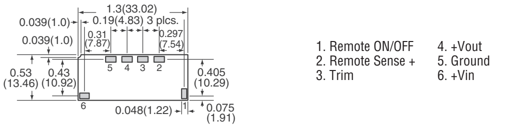

Fig.	Input Voltage (VDC)	Output Voltage (V)	Output Current (A) Max.	Output Power (W) Max.	Digi-Key Part No.	Price Each	Emerson Part No.
1	10 ~ 14	0.8 ~ 3.63	5	16.5	393-1181-ND◆	17.14	SMT05E-12W3V3J
2	3.0 ~ 5.5	.75 ~ 3.63	5	18.15	393-1089-ND	18.52	SMT05E-05W3V3
	3.0 ~ 5.5	.75 ~ 3.63	5	18.15	393-1182-ND◆	17.14	SMT05E-05W3V3J
3	10 ~ 14	0.8 ~ 3.63	15	49.5	393-1183-ND◆	27.60	SMT15E-12W3V3J
	4.5 ~ 5.5	3.3	15	54.45	393-1088-ND	29.80	SMT15E-05S3V3
	4.5 ~ 5.5	3.3	15	54.45	393-1184-ND◆	27.60	SMT15E-05S3V3J
	3.0 ~ 5.5	0.8 ~ 3.63	15	54.45	393-1185-ND◆	27.60	STM15E-05W3V3J

◆ ***RoHS Compliant***

Typhoon™ SMT12F Series

The SMT12F series is a new range of ultra-compact non-isolated point-of-load converters for space-critical applications. A key advantage of the SMT12F is that it only needs the addition of five 22µF ceramic output capacitors to provide a complete full-specification, high efficiency POL solution with transient response capabilities that extend up to 300A/µs. The total board space required for the module and capacitors is a mere 300mm^2, facilitating easy co-location with the load.

Dim. Inches (mm)

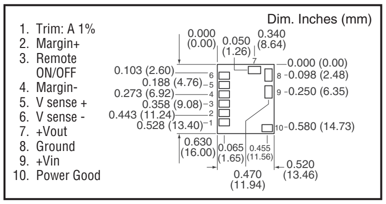

Input Voltage (V)	Output Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
3.0 ~ 5.5	0.9 ~ 3.3	12	393-1204-ND	27.58	SMT12F-05W3V3J

Typhoon™ SMT15F Series

The SMT15F-12 series are non-isolated DC/DC converters packaged in a surface-mount footprint giving designers a cost effective solution for conversion from a 12V source. The SMT15F-12 has an input range of 10.8V ~ 13.2V and offers an output voltage range from 1.0V ~ 1.8V with a 15A load, which allows for maximum design flexibility and a pathway for future upgrades.

Dim. Inches (mm)

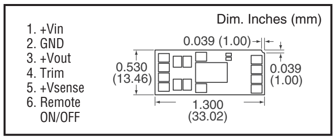

Input Voltage (V)	Output Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
10.8 ~ 13.2	1.2	15	393-1149-ND 393-1205-ND◆	37.24 34.48	SMT15F-12S1V2 SMT15F-12S1V2J

◆ ***RoHS Compliant***

SIL15C and SIL20C Series

The SIL15C and SIL20C Series are a new high density open frame non-isolated converters for space-sensitive applications. Each model has a wide input range (4.5V ~ 5.5V or 10.2V ~ 13.8V) and offer a wide 0.9V ~ 3.3V/5V output voltage range with a 15A/20A load. An external resistor adjusts the output voltage from its pre-set value of 0.9V to any value up to the maximum allowed value for that model.

Dim. Inches (mm)

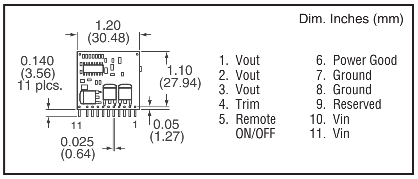

Input Voltage (V)	Output Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
10.2 ~ 13.8	0.9 ~ 5.0	15	393-1186-ND	15.70	SIL15C-12SADJ-VJ
4.5 ~ 5.5	0.9 ~ 3.3	20	393-1187-ND	18.40	SIL20C-05SADJ-VJ
10.2 ~ 13.8	0.9 ~ 5.0	20	393-1188-ND	18.40	SIL20C-12SADJ-VJ

SIL30C and SIL40C Series

The ultra-wide output voltage trim range offers major advantages to users who select the SIL30C-12SADJ or SIL40C-12SADJ series. It is no longer necessary to purchase a variety of modules in order to cover different output voltages. The output voltage can be trimmed in a range of 0.9V ~ 5.0V. When the SIL30C-12SADJ or SIL40C-12SADJ series converter leaves the factory the output has been adjusted to the default voltage of 0.9V.

Dim. Inches (mm)

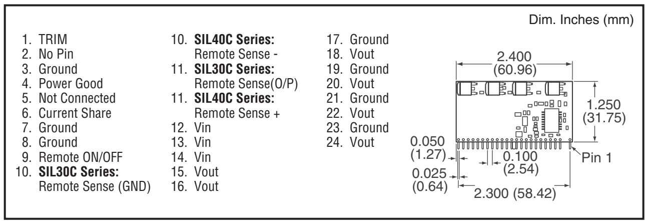

Input Voltage (V)	Output Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
10.2 ~ 13.8	0.9 ~ 5	30	393-1189-ND◆	27.60	SIL30C-12SADJ-VJ
10.2 ~ 13.8	0.9 ~ 5	40	393-1146-ND 393-1190-ND◆	30.68 28.90	SIL40C-12SADJ-V SIL40C-12SADJ-VJ

◆ ***RoHS Compliant***

Typhoon™ Eighth-Brick Series

This is a new high efficiency, open-frame, low profile, single board, isolated DC/DC converter series in an industry standard eight-brick footprint that provides up to 100W of output. The series delivers very high output current at low voltages, and excellent useable power for today's high performance applications. Full international safety approval including EN60950 VDE and UL/cUL60950, reduces compliance costs and time to market. The remote ON/OFF logic is negative.

Dim. Inches (mm)

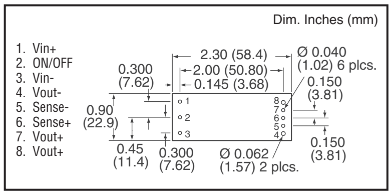

Input Voltage (V)	Output Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
36 ~ 75	2.5	20	393-1126-ND	83.25	LES20A48-2V5RE
	2.5	20	393-1196-ND◆	90.00	LES20A48-2V5REJ
	3.3	20	393-1197-ND◆	90.00	LES20A48-3V3REJ
	5.0	10	393-1198-ND◆	90.00	LES10A48-5V0REJ
	1.2	50	393-1121-ND	96.81	LES50A48-1V2RE
36 ~ 75	1.2	50	393-1199-ND◆	104.66	LES50A48-1V2REJ
	2.5	25	393-1127-ND	96.81	LES25A48-2V5RE
	2.5	25	393-1200-ND◆	104.66	LES25A48-2V5REJ
	3.3	25	393-1201-ND◆	104.66	LES25S48-3V3REJ
	3.3	30	393-1203-ND◆	118.00	LES30A48-3V3REJ
36 ~ 75	5.0	20	393-1202-ND◆	118.00	LES20A48-5V0REJ

◆ ***RoHS Compliant***

(Continued)

DC-DC Converters *(Cont.)*

Formerly ARTESYN TECHNOLOGIES

Dim. Inches (mm)

Typhoon™
Quarter-Brick Series

Specifications:

Dual Output:

- Input voltage range: 48V nominal, 36 ~ 75VDC

Narrow Input IBC:

- Quarter-Brick, isolated, intermediate bus converter (IBC)
- Input voltage range: Nominal 48VDC, ±10%VDC

Wide Input IBC:

- This series is a Quarter Brick, wide-input intermediate bus converter (IBC)
- Input voltage range: 36 ~ 75VDC

Fig. 1

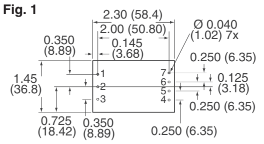

1. +Vin
2. ON/OFF
3. -Vin
4. O/P 1
5. O/P RTN
6. Trim
7. O/P 2

Fig. 2

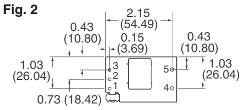

1 +Vin
2 Remote
3 -Vin
4 +Vout
5 -Vout

Output Voltage Nominal (V) 1	Output Voltage Nominal (V) 2	Input Voltage (V)	Output Current (Max.) (A)	Digi-Key Part No.	Price Each	Emerson Part No.
Dual Output – Fig. 1						
1.2	3.3	36 ~ 75	15A/15	393-1136-ND	145.58	LQD30A48-3V3-1V2RE
Wide Input IBC – Fig. 2 — RoHS Compliant						
12	—	36 ~ 75	14	393-1195-ND	87.60	TQW14A-48S12RJ

PTH Series

The next generation series of non-isolated DC/DC converters offering some of the most advanced POL features available in the industry. The primary new feature provides for sequencing between multiple modules, a function, which is becoming a necessity for powering advanced silicon including DSP's, FPGA's and ASIC's requiring controlled power-up and power-down.

Dim. Inches (mm)

Fig. 1

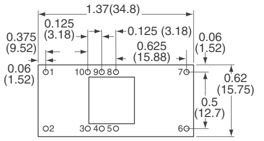

A 470µF electrolytic input capacitor is required for proper operation (560µF on PTH12010 series).

1. Ground
2. Vin
3. Inhibit†
4. Vo Adjust
5. Vo Sense
6. Vout
7. Ground
8. Track
9. Margin Down
10. Margin Up

† Denotes negative logic:
Open = Normal operation Ground = Function active

Fig. 2

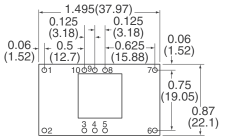

A 1000µF electrolytic input capacitor is required for proper operation (560µF on PTH12020 series).

1. Ground
2. Vin
3. Inhibit†
4. Vo Adjust
5. Vo Sense
6. Vout
7. Ground
8. Track
9. Margin Down
10. Margin Up

† Denotes negative logic:
Open = Normal operation Ground = Function active

Fig. 3

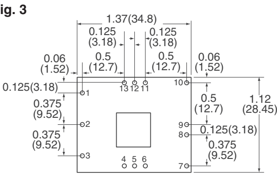

A 1500µF electrolytic input capacitor is required for proper operation (560µF on PTH12030 series).

1. Ground
2. Vin
3. Ground
4. Inhibit†
5. Vo Adjust
6. Vo Sense
7. Ground
8. Vout
9. Vout
10. Ground
11. Track
12. Margin Down
13. Margin Up

† Denotes negative logic:
Open = Normal operation Ground = Function active

Fig. 4

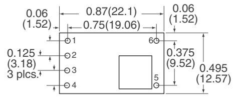

A 100µF electrolytic input capacitor is required for proper operation.

1. Ground
2. Track
3. Vin
4. Inhibit†
5. Vo Adjust
6. Vout

† Denotes negative logic:
Open = Normal operation Ground = Function active

Fig. 5

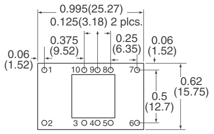

A 330µF electrolytic input capacitor is required for proper operation (560µF on PTH12060 series).

1. Ground
2. Vin
3. Inhibit†
4. Vo Adjust
5. Vo Sense
6. Vout
7. Ground
8. Track
9. Margin Down
10. Margin Up

† Denotes negative logic:
Open = Normal operation Ground = Function active

Fig.	Input Voltage (VDC)	Output Voltage (V)	Output Current (A) Max.	Output Power (W) Max.	Digi-Key Part No.	Price Each	Emerson Part No.
1	2.95 ~ 3.65	0.8 ~ 2.5	15	37.5	393-1159-ND◆ 393-1160-ND◆	22.00 22.00	PTH03010WAD PTH03010WAZ
	4.5 ~ 5.5	0.8 ~ 3.6	15	54	393-1167-ND◆ 393-1168-ND◆	22.00 22.00	PTH05010WAD PTH05010WAZ
	10.8 ~ 13.2	1.2 ~ 5.5	12	66	393-1177-ND◆ 393-1178-ND◆	22.00 22.00	PTH12010WAD PTH12010WAZ
2	4.5 ~ 5.5	0.8 ~ 3.6	22	79.2	393-1169-ND◆ 393-1170-ND◆	31.88 31.88	PTH05020WAD PTH05020WAZ
	10.8 ~ 13.2	1.2 ~ 5.5	18	99	393-1179-ND◆ 393-1180-ND◆	31.88 31.88	PTH12020WAD PTH12020WAZ
3	2.95 ~ 3.65	0.8 ~ 2.5	30	75	393-1161-ND◆	42.72	PTH03030WAD

Fig.	Input Voltage (VDC)	Output Voltage (V)	Output Current (A) Max.	Output Power (W) Max.	Digi-Key Part No.	Price Each	Emerson Part No.
3	2.95 ~ 3.65	0.8 ~ 2.5	30	75	393-1099-ND 393-1162-ND◆	46.14 42.72	PTH03030WAS PTH03030WAZ
	4.5 ~ 5.5	0.8 ~ 3.6	30	108	393-1171-ND◆ 393-1172-ND◆	42.72 42.72	PTH05030WAD PTH05030WAZ
4	2.95 ~ 3.65	0.8 ~ 2.5	6	15	393-1155-ND◆ 393-1156-ND◆	13.10 13.10	PTH03050WAZ PTH03050WAD
	4.5 ~ 5.5	0.8 ~ 3.6	6	21.6	393-1163-ND◆ 393-1164-ND◆	13.10 13.10	PTH05050WAD PTH05050WAZ
	10.8 ~ 13.2	1.2 ~ 5.5	6	33	393-1173-ND◆ 393-1174-ND◆	13.10 13.10	PTH12050WAD PTH12050WAZ
5	2.95 ~ 3.65	0.8 ~ 2.5	10	15	393-1157-ND◆ 393-1158-ND◆	18.60 18.60	PTH03060WAZ PTH03060WAD
	4.5 ~ 5.5	0.8 ~ 3.6	10	36	393-1102-ND 393-1165-ND◆ 393-1166-ND◆	20.08 18.60 18.60	PTH05060WAH PTH05060WAD PTH05060WAZ
	10.8 ~ 13.2	1.2 ~ 5.5	10	55	393-1175-ND◆ 393-1176-ND◆	18.60 18.60	PTH12060WAD PTH12060WAZ

◆ ***RoHS Compliant***

DC-DC Converters

Formerly ASTEC

Specifications:
• Single Output • Operating Temperature: -40°C ~ 85°C

Dim. Inches (mm)

Fig. 1 – ATH06 Series: • Non Isolated • SMT

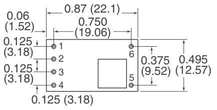

1. GND
2. Track
3. Vin
4. Inhibit
5. Vo Adjust
6. Vout

Fig. 2 – ALO25 and ALO40 Series: • 1/8 Brick • Negative Logic • No Load Regulation

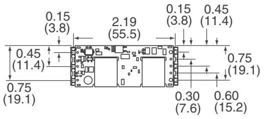

1. +Vin
2. ENABLE (On/Off)
3. -Vin
4. -Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

Fig. 3 – AEO25 and AEO40 Series: • 1/8 Brick • Negative Logic

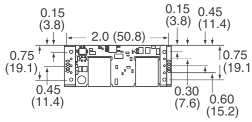

1. +Vin
2. ENABLE (On/Off)
3. -Vin
4. -Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

Fig. 4 – ATH22 Series: • Non Isolated • SMT

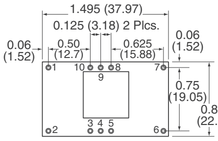

1. GND
2. Vin
3. Inhibit
4. Vo Adjust
5. Vo Sense
6. Vout
7. GND
8. Track
9. Margin Down
10. Margin Up

Fig. 5 – ATH30 Series: • Non Isolated • SMT

1, 3. GND
2. Vin
4. Inhibit
5. Vo Adjust
6. Vo Sense
8, 9. Vout
7,10. GND
11. Track
12. Margin Down
13. Margin Up

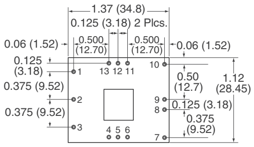

Fig.	V Out	Watts	I Out	V In Range	Digi-Key Part No.	Price Each	Emerson Part No.
ATH06 Series — Point-of-Load Alliance, RoHS Compliant							
1	0.8 ~ 2.5V 0.8 ~ 3.6V 1.2 ~ 5.5V	33W 33W 33W	6A 6A 6A	3 ~ 3.6V 4.5 ~ 5.5V 10.8 ~ 13.2V	454-1244-ND 454-1245-ND 454-1246-ND	13.10 13.10 13.10	ATH06T033-9SJL ATH06T05-9SJL ATH06K12-9SJL
ALO25 Series — Open Frame/ Low Profile, RoHS Compliant							
2	12V	66W	4A	36 ~ 75V	454-1172-ND	50.51	ALO04B48N-L
ALO40 Series — Open Frame/ Low Profile, RoHS Compliant							
2	1.8V 1.5V 1.2V	120W 120W 120W	40A 40A 40A	36 ~ 75V 36 ~ 75V 36 ~ 75V	454-1181-ND 454-1182-ND 454-1183-ND	58.28 58.28 58.28	ALO40Y48N-L ALO40M48N-L ALO40K48N-L
AEO25 Series — Baseplate Construction, RoHS Compliant							
3	12V 3.3V 1.8V 1.5V 1.2V	66W 66W 66W 66W 66W	4A 20A 25A 25A 25A	36 ~ 75V 36 ~ 75V 36 ~ 75V 36 ~ 75V 36 ~ 75V	454-1184-ND 454-1186-ND 454-1187-ND 454-1188-ND 454-1189-ND	52.45 52.45 52.45 52.45 52.45	AEO04B48N-L AEO20F48N-L AEO25Y48N-L AEO25M48N-L AEO25K48N-L
AEO40 Series — Baseplate Construction, RoHS Compliant							
3	12V 5V 1.8V 1.5V 1.2V	120W 120W 120W 120W 120W	10A 20A 40A 40A 40A	36 ~ 75V 36 ~ 75V 36 ~ 75V 36 ~ 75V 36 ~ 75V	454-1190-ND 454-1191-ND 454-1193-ND 454-1194-ND 454-1195-ND	60.22 60.22 60.22 60.22 60.22	AEO10B48N-L AEO20A48N-L AEO40Y48N-L AEO40M48N-L AEO40K48N-L
ATH22 Series — Point-of-Load Alliance							
4	1.2 ~ 5.5V 0.8 ~ 3.6V	99W 99W	18A 22A	10.8 ~ 13.2V 4.5 ~ 5.5V	454-1116-ND 454-1118-ND	31.88 31.88	ATH18K12-9SJ ATH22T05-9SJ
ATH30 Series — Point-of-Load Alliance							
5	1.2 ~ 5.5V 0.8 ~ 2.5V	143W 143W	26A 30A	10.8 ~ 13.2V 3 ~ 3.6V	454-1119-ND 454-1120-ND	39.52 39.52	ATH26K12-9SJ ATH30T033-9SJ

EMERSON
Network Power

Switching AC-DC Power Supplies

Single Outputs

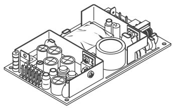

Emerson's LP Series of low power switchers offer outstanding performance, price and reliability as well as the latest in high technology performance. These switchers range from 25 ~ 350W of power and come in a wide variety of configurations. Available as a single or multiple output with many different output voltage combinations, these compact models are ideally suited to a wide variety of applications in telecommunications, computers, computer peripheral, test and industrial equipment, medical instrumentation and business machines.

Formerly ASTEC

Total Power Watts	Output 1	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Emerson Part No.
				Housing Input	Housing Output	Contacts		1	10	25	50	
LPS40 Series — Single Outputs												
40-50	5V @ 8A	0A	5.0 x 3.0 x 1.14 (127.0 x 76.2 x 29.0)	WM2123	WM2126	WM2313	454-1073-ND	46.25	38.75	36.25	35.00	LPS42
	12V @ 3.3A	0A					454-1070-ND	46.25	38.75	36.25	35.00	LPS43
	24V @ 1.6A	0A					454-1071-ND	46.25	38.75	36.25	35.00	LPS45
	48V @ 0.9A	0A					454-1072-ND	46.25	38.75	36.25	35.00	LPS48
LPS50 Series — Single Outputs												
55	5V @ 11A	0A	4.0 x 2.0 x 1.30 (101.60 x 50.80 x 33.0)	WM2123	WM2126	WM2313	454-1161-ND	49.95	41.85	39.15	37.80	LPS52
60	12V @ 5A	0A					454-1162-ND	49.95	41.85	39.15	37.80	LPS53
60	15V @ 4A	0A					454-1163-ND	49.95	41.85	39.15	37.80	LPS54
60	24V @ 2.5A	0A					454-1164-ND	49.95	41.85	39.15	37.80	LPS55
60	48V @ 1.25A	0A					454-1165-ND	49.95	41.85	39.15	37.80	LPS58
LPS60 Series — Single Outputs												
60	15V @ 4A	0A	5.0 x 3.0 x 1.65 (127.0 x 76.2 x 41.9)	WM2123	WM2126	WM2313	454-1196-ND	60.98	51.09	47.80	46.15	LPS64
	24V @ 2.5A	0A					454-1197-ND	60.98	51.09	47.80	46.15	LPS65
	48V @ 1.3A	0A					454-1198-ND	60.98	51.09	47.80	46.15	LPS68
LPS250 Series — Single Outputs												
250	5V @ 50A	1.50A	9.0 x 5.0 x 2.0 (228.6 x 127.0 x 50.8)	—	—	—	454-1204-ND	265.33	232.17	219.73	211.44	LPS252-C
	5V @ 50A	1.50A					454-1206-ND	298.29	261.01	247.02	237.70	LPS252-CF
	12V @ 21A	0.63A					454-1207-ND	265.33	232.17	219.73	211.44	LPS253-C
	12V @ 21A	0.63A					454-1208-ND	314.77	275.43	260.67	250.84	LPS253-CEF
	12V @ 21A	0.63A					454-1209-ND	298.29	261.01	247.02	237.70	LPS253-CF
	15V @ 16.7A	0.50A					454-1210-ND	265.33	232.17	219.73	211.44	LPS254-C
	15V @ 16.7A	0.50A					454-1211-ND	314.77	275.43	260.67	250.84	LPS254-CEF
	15V @ 16.7A	0.50A					454-1212-ND	298.29	261.01	247.02	237.70	LPS254-CF
	24V @ 10.4A	0.32A					454-1213-ND	265.33	232.17	219.73	211.44	LPS255-C
	24V @ 10.4A	0.32A					454-1214-ND	314.77	275.43	260.67	250.84	LPS255-CEF
	24V @ 10.4A	0.32A					454-1215-ND	298.29	261.01	247.02	237.70	LPS255-CF
Connector Kit for LPS250 Series							454-1241-ND	6.94	5.44	5.16	4.99	70-841-005
LPS350 Series — Single Outputs												
350	5V @ 70A	0A	9.0 x 5.0 x 2.5 (228.6 x 127.0 x 63.5)	—	—	—	454-1220-ND	351.23	305.91	294.58	283.25	LPS352-C
	5V @ 70A	0A					454-1222-ND	383.16	333.72	321.36	309.00	LPS352-CF
	12V @ 29.2A	0A					454-1224-ND	383.16	333.72	321.36	309.00	LPS353-CEF
	12V @ 29.2A	0A					454-1225-ND	383.16	333.72	321.36	309.00	LPS353-CF
	15V @ 23.3A	0A					454-1226-ND	351.23	305.91	294.58	283.25	LPS354-C
	15V @ 23.3A	0A					454-1227-ND	383.16	333.72	321.36	309.00	LPS354-CEF
	15V @ 23.3A	0A					454-1228-ND	383.16	333.72	321.36	309.00	LPS354-CF
	24V @ 14.6A	0A					454-1229-ND	351.23	305.91	294.58	283.25	LPS355-C
	24V @ 14.6A	0A					454-1230-ND	383.16	333.72	321.36	309.00	LPS355-CEF
	24V @ 14.6A	0A					454-1231-ND	383.16	333.72	321.36	309.00	LPS355-CF
Connector Kit for LPS350 Series							454-1242-ND	6.94	5.44	5.16	4.99	70-841-011
NTS350 Series — Single Outputs												
350	12V @ 16.6A	0A	7.0 x 4.0 x 1.5 (177.8 x 101.6 x 38.1)	WM2123	WM8037	WM2313	454-1168-ND	356.50	310.50	299.00	287.50	NTS353
	12V @ 29.2A	0A					454-1169-ND	379.75	330.75	318.50	306.25	NTS353-CF
	48V @ 4.2A	0A					454-1170-ND	356.50	310.50	299.00	287.50	NTS358
	48V @ 7.3A	0A					454-1171-ND	379.75	330.75	318.50	306.25	NTS358-CF

Note: *The -CF suffix added to the manufacture part number indicates cover with top fan, add 1.0" to height. The -CEF suffix added to the manufacture part number indicates cover with dual end fan cover and AC inlet, add 1.32" to length.*

Multiple Outputs

Total Power Watts	V1 Min/Max A	V2 Min/Max A	V3 Min/Max A	V4 Min/Max A	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Emerson Part No.
						Housing Input	Housing Output	Contacts		1	10	25	50	
LPT25 Series – Triple Outputs — RoHS Compliant														
25-40	5V @ 0.3A/3A	12V @ 0.1A/1.5A	-12V @ 0A/0.5A	—	5.0 x 3.0 x 1.14 (127.0 x 76.2 x 29.0)	WM2123	WM2126	WM2313	454-1078-ND	40.70	34.10	31.90	30.80	LPT22
	5V @ 0.3A/3A	12V @ 0.1A/1.5A	-5V @ 0A/0.5A	—					454-1079-ND	44.40	37.20	34.80	33.60	LPT24
LPT40 Series – Triple Outputs														
40-50	3.3V @ 0.5A/4A	5V @ 0A/1.5A	12V @ 0A/0.5A	—	5.0 x 3.0 x 1.14 (127.0 x 76.2 x 29.0)	WM2123	WM2126	WM2313	454-1077-ND◆	55.50	46.50	43.50	42.00	LPT41
	5V @ 0.4A/4A	12V @ 0.2A/2A	-12V @ 0A/0.5A	—					454-1075-ND◆	42.55	35.65	33.35	32.20	LPT42
	5V @ 0.5A/6A	12V @ 0A/0.5A	-12V @ 0A/0.5A	—					454-1076-ND◆	48.10	40.30	37.70	36.40	LPT43
	5V @ 0.4A/4A	12V @ 0.2A/2A	-5V @ 0A/0.5A	—					454-1080-ND	48.10	40.30	37.70	36.40	LPT44
	5V @ 0.4A/4A	15V @ 0.2A/2A	-15V @ 0A/0.5A	—					454-1081-ND◆	48.10	40.30	37.70	36.40	LPT45
	5V @ 0.4A/4A	24V @ 0.2A/1A	-12V @ 0A/0.5A	—					454-1074-ND◆	48.10	40.30	37.70	36.40	LPT47
LPT60 Series – Triple Outputs — RoHS Compliant														
60	3.3V @ 0.7A/5A	5V @ 0A/2.5A	12V @ 0A/0.5A	—	5.0 x 3.0 x 1.65 (127.0 x 76.2 x 41.9)	WM2123	WM2104	WM2313	454-1199-ND	72.41	60.67	56.76	54.80	LPT61
	5V @ 0.7A/7A	12V @ 0.3A/3A	-12V @ 0A/0.7A	—					454-1200-ND	55.26	46.30	43.32	41.82	LPT62
	5V @ 0.7A/7A	15V @ 0.3A/2.8A	-15V @ 0A/0.7A	—					454-1201-ND	64.79	54.29	50.78	49.03	LPT63
	5V @ 0.7A/7A	12V @ 0.3A/3A	-5V @ 0A/0.7A	—					454-1202-ND	64.79	54.29	50.78	49.03	LPT64
	5V @ 0.7A/7A	24V @ 0.1A/1.5A	12V @ 0A/0.7A	—					454-1203-ND	64.79	54.29	50.78	49.03	LPT65
Cover Chassis for LPX40/ LPX60 — RoHS Compliant														
—	—	—	—	—	5.9 x 3.86 x 1.5 (150 x 98 x 38)	—	—	—	454-1247-ND	10.00	8.25	7.50	7.25	LPX40
—	—	—	—	—	5.9 x 3.86 x 1.97 (150 x 98 x 50)	—	—	—	454-1248-ND	10.00	8.25	7.50	7.25	LPX60
NTQ160 Series – Quad Outputs														
50-165	3.3V @ 2A/15A	5V @ 0A/10A	12V @ 0A/2A	12V @ 0A/2A	8.5 x 4.25 x 1.5 (216.0 x 108.0 x 38.1)	—	—	—	454-1238-ND◆	223.31	191.80	184.95	174.68	NTQ162
	5V @ 2A/15A	3.3V @ 0A/10A	12V @ 0A/2A	12V @ 0A/2A					454-1239-ND◆	223.31	191.80	184.95	174.68	NTQ163
	3.3V @ 2A/15A	2.5V @ 0A/10A	5V @ 0A/2A	12V @ 0A/2A					454-1240-ND◆	223.31	191.80	184.95	174.68	NTQ165
Connector Kit for NTQ160 Series									454-1243-ND	6.94	5.44	5.16	4.99	70-841-014
NTQ123 Series – Quad Outputs — RoHS Compliant														
70-120	3.3V @ 0A/14A	5V @ 2A/12.5A	12V @ 0A/1A	-12V @ 0A/0.5A	7.0x4.0x1.5 (177.8x101.6x38.1)	WM2125	A25834	WM2313	454-1237-ND	163.35	141.08	136.13	131.18	NTQ123
LPT80 Series – Triple Outputs — RoHS Compliant														
60	5V @ 0.7A/8A	12V @ 0.3A/3A	-12V @ 0A/0.7A	— —	5.0 x 3.0 x 1.29 (127.0 x 76.2 x 32.8)	WM2123	WM8037	WM2313	454-1167-ND	99.90	83.70	78.30	75.60	LPT82
LPQ250 Series – Quad Outputs														
250	5V @ 3A/35A	12V @ 0A/10A	-12V @ 0A/6A	±5-25V@0A/6A	9.0 x 5.0 x 2.0 (228.6 x 127.0 x 50.8)	—	—	—	454-1084-ND◆	280.98	244.73	232.95	226.60	LPQ252-C
	5V @ 3A/35A	12V @ 0A/10A	-12V @ 0A/6A	±5-25V@0A/6A					454-1216-ND◆	328.88	291.75	275.84	270.53	LPQ252-CEF
	5V @ 3A/35A	12V @ 0A/10A	-12V @ 0A/6A	±5-25V@0A/6A					454-1082-ND◆	312.91	272.54	259.42	252.35	LPQ252-CF
	5V @ 3A/35A	15V @ 0A/10A	-15V @ 0A/6A	±5-25V@0A/6A					454-1217-ND◆	290.05	253.80	240.20	231.14	LPQ253-C
	5V @ 3A/35A	15V @ 0A/10A	-15V @ 0A/6A	±5-25V@0A/6A					454-1218-ND◆	328.88	291.75	275.84	265.23	LPQ253-CEF
	5V @ 3A/35A	15V @ 0A/10A	-15V @ 0A/6A	±5-25V@0A/6A					454-1219-ND◆	312.91	277.59	262.45	252.35	LPQ253-CF
Connector Kit for LPQ250 Series									454-1241-ND	6.94	5.44	5.16	4.99	70-841-005
LPQ350 Series – Quad Outputs — RoHS Compliant														
350	5V @ 5A/50A	12V @ 0A/12A	-12V @ 0A/6A	3.3-24V@1A/6A	9.0 x 5.0 x 2.5 (228.6 x 127.0 x 63.5)	—	—	—	454-1085-ND	383.16	333.72	317.66	309.00	LPQ352-C
	5V @ 5A/50A	12V @ 0A/12A	-12V @ 0A/6A	3.3-24V@1A/6A					454-1232-ND	409.73	361.53	348.14	334.75	LPQ352-CEF

◆ RoHS Compliant

Note: *The -CF suffix added to the mfg. part number indicates cover with top fan, add 1.0" to height. The -CEF suffix added to the mfg. part number indicates cover with dual end fan cover and AC inlet, add 1.32" to length.*

(Continued)

Switching AC-DC Power Supplies
Multiple Outputs *(Cont.)*

Formerly ASTEC

Total Power Watts	V1 Min/Max A	V2 Min/Max A	V3 Min/Max A	V4 Min/Max A	Dimensions Inch (mm) L x W x H	Mating Connectors Housing Input	Mating Connectors Housing Output	Mating Connectors Contacts	Digi-Key Part No.	Price Each 1	10	25	50	Emerson Part No.
350	5V @ 5A/50A	12V @ 0A/12A	-12V @ 0A/6A	3.3-24V@1A/6A	9.0 x 5.0 x 2.5 (228.6 x 127.0 x 63.5)	—	—	—	454-1083-ND	415.09	361.53	344.13	334.75	LPQ352-CF
	5V @ 5A/50A	15V @ 0A/12A	-15V @ 0A/6A	3.3-24V@1A/6A					454-1233-ND	383.16	333.72	321.36	309.00	LPQ353-C
	5V @ 5A/50A	15V @ 0A/12A	-15V @ 0A/6A	3.3-24V@1A/6A					454-1234-ND	409.73	361.53	348.14	334.75	LPQ353-CEF
Connector Kit for LPQ350 Series									454-1242-ND	6.94	5.44	5.16	4.99	70-841-011

◆ ***RoHS Compliant***

Note: *The -CF suffix added to the mfg. part number indicates cover with top fan, add 1.0" to height. The -CEF suffix added to the mfg. part number indicates cover with dual end fan cover and AC inlet, add 1.32" to length.*

Universal Input Switch Mode Power Supplies

Formerly ARTESYN TECHNOLOGIES

NLP65 Series – Single, Dual, and Triple Outputs
65 ~ 75 Watt AC/DC

Specifications: • Dimensions (L x W x H): 5" x 3" x 1.26" (127.00mm x 76.20mm x 32.00mm) **• Mating Connectors:** Housing Input: WM2101-ND; Housing Output: WM2104-ND; Contacts: WM2302-ND **• Input Voltage:** 85 ~ 264VAC

Output Voltage 1	Output Current Min./Max.	Output Voltage 2	Output Current Min./Max.	Digi-Key Part No.	Price Each	Emerson Part No.
+5V	0.2A/7.0A	+12V	0A/2.5A	393-1032-ND	75.85	NLP65-7629

TRIAD MAGNETICS

Encapsulated Constant Current or Constant Voltage Switch Mode Power Supplies

RoHS COMPLIANT

Designed to be compact, lightweight and water resistant (IP66, Nema 4).

Electrical Specifications: • Input Voltage: 90VAC ~ 264VAC, 47Hz ~ 63Hz (TLD Series); 10VDC ~ 40VDC (TLM Series) **• Operating Temperature:** (TLD Series): -30°C ~ 60°C (TLM Series) -40°C ~ 60°C (with derating 1% per °C from 60°C ~ 70°C) • Short Circuit Protection (TLD Series only) • Over Voltage and Over Current Protection

Fig.	Output Voltage (VDC)	Output Current (A)	Wattage	Digi-Key Part No.	Price Each 1	10	50	100	Triad Part No.
				Constant Current Output					
1	12 ~ 24	0.35 ±5%	20	237-1309-ND	38.18	32.45	29.21	26.29	TLD1020-24-C0350
1	12 ~ 24	0.70 ±5%	20	237-1311-ND	38.18	32.45	29.21	26.29	TLD1020-24-C0700
2	12 ~ 24	1.05 ±5%	40	237-1315-ND	49.22	41.84	37.65	33.89	TLD1040-24-C1050
1	18 ~ 36	0.35 ±5%	20	237-1310-ND	38.18	32.45	29.21	26.29	TLD1020-36-C0350
2	18 ~ 36	0.70 ±5%	40	237-1314-ND	49.22	41.84	37.65	33.89	TLD1040-36-C0700
2	18 ~ 36	1.05 ±5%	40	237-1316-ND	49.22	41.84	37.65	33.89	TLD1040-36-C1050
				Constant Voltage Output					
1	12 ±5%	1.66	20	237-1313-ND	38.18	32.45	29.21	26.29	TLD1020-12
2	12 ±5%	3.33	40	237-1318-ND	49.22	41.84	37.65	33.89	TLD1040-12
1	24 ±5%	0.83	20	237-1312-ND	38.18	32.45	29.21	26.29	TLD1020-24
2	24 ±5%	1.67	40	237-1317-ND	49.22	41.84	37.65	33.89	TLD1040-24
				Constant Current Output					
3	2 ~ 38	0.35 ±5%	26	237-1319-ND	16.97	14.27	12.84	11.56	TLM4036DC-0350
3	2 ~ 38	0.70 ±5%	26	237-1320-ND	16.97	14.27	12.84	11.56	TLM4036DC-0700
3	2 ~ 38	1.00 ±5%	26	237-1321-ND	16.97	14.27	12.84	11.56	TLM4036DC-1000

Fig. 1

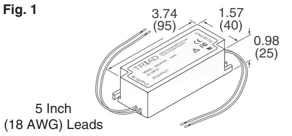

Fig. 2

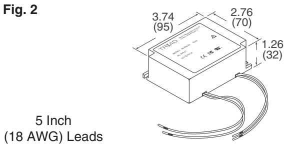

Fig. 3

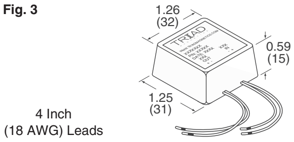

Universal Input Switch Mode AC/DC Power Supply

TÜV RoHS COMPLIANT

ALS Series

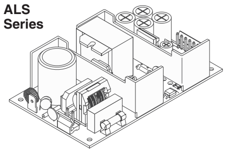

AWSP Series

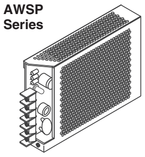

ALS Series: The ALS Series provides a DC output power in a cost-effective open frame package. Excellent performance specifications are provided, together with compliance to European EMC (EN55022, Class A), and Low Voltage directive (TUV EN60950). Built to comply with EMI, EFT, ESD and Surge Standards. **Features:** • Over Current Protection: Shutdown, O.C.P Point >120%, recycle AC supply to recover • Over Voltage Protection: >105% Zener across output • Short Circuit Protection: Unit shutdown, recycle AC supply to recover **Specifications:** • Input Voltage: 110/120VAC (90-260VAC, 120-370VDC) • Input Frequency Range: 47-63Hz • Line Regulation: 1.0% • Load Regulation: 2.0% • Adjustable Output Voltage Range: ±10% • Operating Temperature: Convection cooling 0°C ~ 50°C: 100%; 60°C: 70% • Cooling: Convection cooling **Warranty:** 1 years @ 40°C, 100% Load **Safety Standards:** • UL1950 (E204980) • TUV EN60950 (50070245) • Built to meet CSA 22.2 • Dielectric Strength: I/P-O/P: 3kVAC, I/P-FG: 2.5kVAC, <10mA, 1 minute • Isolation Resistance: O/P-FG: 500VDC >100MΩ

AWSP Series: The AWSP Series power supply is designed for a wide variety of applications where high reliability is desired, including applications for industrial and telecommunications markets. Excellent performance specifications are provided, together with compliance to European EMC (EN55022, Class B and EN61000-3-2), and Low Voltage directive (TUV EN60950). Built to comply with EMI, EFT, ESD and Surge Standards. **Features:** • Over Current Protection: At Load >120% 115/230VAC, auto recovery • Over Voltage Protection: Zener clamping at Vo>110%, non auto recovery • Short Circuit Protection: Short circuit protection available. Avoid short circuit >30 seconds. **Specifications:** • Input Voltage: 85-264VAC • Input Frequency Range: 47-63Hz • Line Regulation: ±0.5% • Load Regulation: ±1.0% •Adjustable Output Range: ±10% • Operating Temperature: -10°C ~ 60°C • Cooling: Natural Convection **Warranty:** 2 years **Safety Standards:** • UL60950 (UL File No: E204980) • TUV EN60950 (TUV No: 50058679) • Dielectric Strength: I/P-O/P: 3kVAC; I/P-FG: 2.5kVAC; O/P-FG: 0.5kVAC 1 minute • Isolation Resistance: I/P-O/P, I/P-FG, O/P-FG: 500VDC/100MΩ

ALS Series (Open Frame)

Wattage	Output Voltage (V)	Output Current (A)	Dimensions Inch (mm) L x W x H	Mating Connections Housing Input	Mating Connections Housing Output	Mating Connections Contacts	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
50	3.3	9.1	5.0 x 3.0 x 1.42 (127.0 x 76.2 x 35.6)	WM2101-ND	WM2104-ND	WM2300-ND	237-1289-ND	25.44	21.63	20.36	19.47	ALS50-3.3
	5.0	9.6		WM2101-ND	WM2104-ND	WM2300-ND	237-1290-ND	25.44	21.63	20.36	19.47	ALS50-5
	12.0	4.2		WM2101-ND	WM2104-ND	WM2300-ND	237-1291-ND	25.44	21.63	20.36	19.47	ALS50-12
	24.0	2.1		WM2101-ND	WM2104-ND	WM2300-ND	237-1292-ND	25.44	21.63	20.36	19.47	ALS50-24
75	3.3	12.0	5.0 x 3.0 x 1.65 (127.0 x 76.2 x 42.0)	WM2101-ND	WM2104-ND	WM2300-ND	237-1293-ND	28.61	24.32	22.88	21.88	ALS75-3.3
	5.0	12.0		WM2101-ND	WM2104-ND	WM2300-ND	237-1294-ND	28.61	24.32	22.88	21.88	ALS75-5
	12.0	6.2		WM2101-ND	WM2104-ND	WM2300-ND	237-1295-ND	28.61	24.32	22.88	21.88	ALS75-12
	24.0	3.1		WM2101-ND	WM2104-ND	WM2300-ND	237-1296-ND	28.61	24.32	22.88	21.88	ALS75-24

AWSP Series (Enclosed Frame)

Wattage	Output Voltage (V)	Output Current (A)	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
40	5.0	7.6	5.08 x 3.86 x 1.50 (129.0 x 98.0 x 38.0)	237-1297-ND	23.70	20.15	19.64	18.14	AWSP40-5
	12.0	3.3		237-1298-ND	23.70	20.15	19.64	18.14	AWSP40-12
	24.0	1.7		237-1299-ND	23.70	20.15	19.64	18.14	AWSP40-24
60	5.0	12.0	6.30 x 3.86 x 1.50 (160.0 x 98.0 x 38.0)	237-1300-ND	30.07	25.56	24.05	23.00	AWSP60-5
	12.0	5.0		237-1301-ND	30.07	25.56	24.05	23.00	AWSP60-12
	24.0	2.5		237-1302-ND	30.07	25.56	24.05	23.00	AWSP60-24
100	5.0	20.0	7.80 x 3.86 x 1.65 (198.0 x 98.0 x 42.0)	237-1303-ND	58.37	49.61	46.69	44.65	AWSP100-5
	12.0	8.4		237-1304-ND	58.37	49.61	46.69	44.65	AWSP100-12
	24.0	4.2		237-1305-ND	58.37	49.61	46.69	44.65	AWSP100-24
150	5.0	30.0	7.83 x 3.86 x 1.97 (199.0 x 98.0 x 50.0)	237-1306-ND	61.47	52.25	49.17	47.02	AWSP150-5
	12.0	12.5		237-1307-ND	61.47	52.25	49.17	47.02	AWSP150-12
	24.0	6.3		237-1308-ND	61.47	52.25	49.17	47.02	AWSP150-24

excelsys

200-1360W AC - DC Modular Power Supplies

Field configurable plug and play modules for any combination of outputs

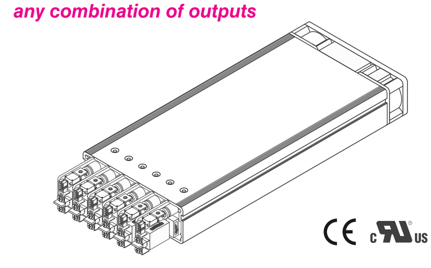

The Xgen series allows users to instantly configure high efficiency power supplies. Although very small in size, (40.4mm wide, 260mm long and either 89mm or 127mm wide) the Xgen series provides up to 1360W of output power (1450W peak).

The Xgen series power supplies combine feature-laden front-ends (powerPacs) with slide-in output converters (powerMods). The plug-together architecture facilitates "instant" custom power solutions with industry leading 16W/in3 power density and up to 90% conversion efficiency. Available in two package sizes, with a variety of application specific powerPacs, the Xgen series provides a standard off-the-shelf solution for specific application requirements.

FEATURES INCLUDE:

- Universal AC Input Range (85 ~ 264VAC / 47 ~ 63Hz)
- 1 ~ 12 fully floating DC outputs
- Use powerPac with any combination of output modules in series or parallel
- Line Regulation of <0.1%
- Load Regulation of <0.2%
- Efficiency up to 90%
- Medical UL 2601 and Industrial UL 60950 versions
- Active Power Factor Correction for EN61000-3-2 Class D Compliance
- 5VSB @ 250mA Bias Supply
- Remote Sense, Remote on/off and Voltage Trim Control Signals
- DC Good, AC Good, Temperature Alarm and Fan Fail Status Signals
- Over Voltage, Over Current, Over Temperature protection circuits
- Ripple / Noise <1% peak to peak maximum (20mHZ bandwidth)
- >1 million hours MTBF at full load and 25°C
- Option Codes: 01 Thermal Signals, 02 Reverse Fan

Note: Build your own Plug and Play power supplies by selecting a powerPac and individual powerMods.
To order power supplies pre-configured, 24 hour shipping, use online configurator tool at http://sales.digikey.com/excelsys/config.aspx

Xlite

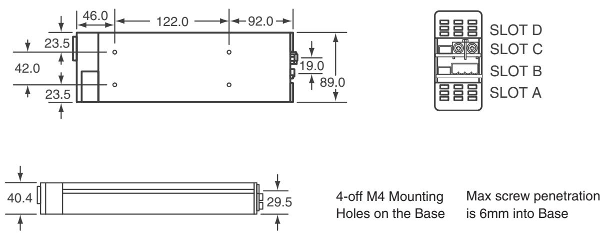
46.0
122.0
92.0
23.5
42.0
23.5
19.0
89.0
SLOT D
SLOT C
SLOT B
SLOT A
40.4
29.5
4-off M4 Mounting Holes on the Base
Max screw penetration is 6mm into Base

Xcite

Dim. in mm

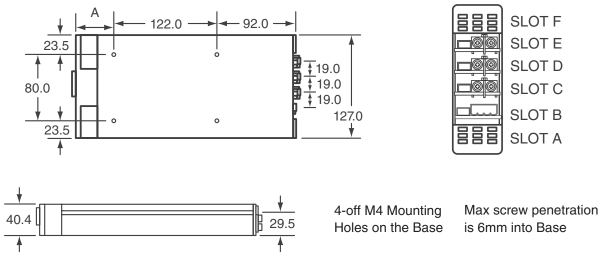

PowerPacs (AC Front End — Power Supply Chassis)

Description	Watts	Dim. A mm	Digi-Key Part No.	Price Each 1	Price Each 10	Excelsys Part No.
Xlite Family						
NEW! Without Thermal Signal Alarm NEW!						
4 Slot Chassis 89mm UL/cUL60950-1 Approved	200	—	633-1023-ND	226.26	201.80	XLA-00
	400	—	633-1024-ND	229.84	205.00	XLB-00
	600	—	633-1025-ND	235.25	209.82	XLC-00
With Thermal Signal Alarm						
4 Slot Chassis 89mm UL/cUL60950-1 Approved	200	—	633-1000-ND	243.77	217.43	XLA-01
	400	—	633-1001-ND	247.36	220.63	XLB-01
	600†	—	633-1002-ND	252.77	225.44	XLC-01
Xcite Family						
NEW! Without Thermal Signal Alarm NEW!						
6 Slot Chassis 127mm UL/cUL60950-1 Approved	400	46.0	633-1026-ND	287.90	256.78	XCA-00
	700	46.0	633-1027-ND	316.68	282.45	XCB-00
	1000	46.0	633-1028-ND	347.39	309.84	XCC-00
	1200	46.0	633-1029-ND	364.65	325.24	XCD-00
	1,360	54.0	633-1030-ND	439.12	391.65	XCE-00
With Thermal Signal Alarm						
6 Slot Chassis 127mm UL/cUL60950-1 Approved	400	46.0	633-1003-ND	305.42	272.40	XCA-01
	700	46.0	633-1004-ND	334.20	298.08	XCB-01
	1,000∆	46.0	633-1005-ND	364.91	325.47	XCC-01
	1,200•	46.0	633-1006-ND	382.17	340.86	XCD-01
	1,360	54.0	633-1031-ND ***NEW!***	454.90	405.72	XCE-01

† Derate linearly from 600W @ 180VAC (400W @ 85VAC) ∆ Derate linearly from 1,000W @ 100VAC (850W @ 85VAC) • Derate linearly from 1,200W @ 120VAC (850W @ 85VAC)
Note: See Designer's Manual for power derating.

PowerMods (DC Output Modules)

Output	Volt. Nom.	Adjustment Range (V)	Imax (A)	Watts	Digi-Key Part No.	Price Each 1	Price Each 10	Excelsys Part No.
Single	2.5	1.5 ~ 3.6	50	125	633-1014-ND	132.52	118.19	Xg1
Single	5.0	3.2 ~ 6.0	40	200	633-1015-ND	132.52	118.19	Xg2
Single	12.0	6.0 ~ 15.0	20	240	633-1016-ND	132.52	118.19	Xg3
Single	24.0	12.0 ~ 30.0	10	240	633-1017-ND	132.52	118.19	Xg4
Single	48.0	28.0 ~ 58.0	6	288	633-1018-ND	132.52	118.19	Xg5
Single	24.0	5.0 ~ 28.0	5	120	633-1019-ND	95.89	85.52	Xg7
V1 V2	24.0 24.0	5.0 ~ 28.0 5.0 ~ 28.0	3 3	72 72	633-1020-ND	124.76	111.28	Xg8
Bus Bar Parallel					633-1021-ND	1.20	1.07	XP1
Bus Bar Series					633-1022-ND	1.20	1.07	XS1

Note: See Designer's Manual for power derating. Use only in Excelsys Power Pacs

Input Connector and Signals Pinout (J2 powerPac)

Pin	J2 (powerPac)
1	Common
2	+5V Bias
3	—
4	AC Fail
5	Fan Fail
6	Global Enable
7	Temperature Alarm
8	Global Inhibit

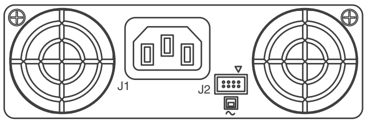

J2 Signals Mating Connectors:
- Housing: WM18032-ND
- Crimp Terminal: WM1128-ND

Output Signals Connector Pinout

Pin	Xg1 ~ Xg5 (J3)	Xg7 (J3)	Xg8 (J3)
1	+Sense	Not Used	-Pg (V2)
2	-Sense	Not Used	+Pg (V2)
3	V Trim	Not Used	Inhibit (V2)
4	I Trim	Common	Common (V2)
5	+Inhibit/Enable	-Pg	-Pg (V1)
6	-Inhibit/Enable	+Pg	+Pg (V1)
7	+Power Good	Inhibit	Inhibit (V1)
8	-Power Good	Common	Common (V1)

Xg1-Xg7

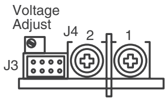

J3 Mating Connectors:
- Housing: WM18032-ND
- Contacts: WM1128-ND

J4 Mating Connectors:
- A0984-ND

Output Connector Pinout

Pin	Xg1-Xg7 (J4)	Xg8 (J4)
1	-Vout	-V2
2	+Vout	+V2
3	—	-V1
4	—	+V1

Xg8

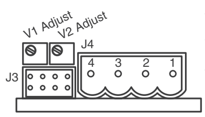

J3 powerMod Signals Mating Connector:
- Housing: WM18032-ND
- Crimp Terminal: WM1128-ND

J4 powerMod Signals Mating Connector:
- 277-1013-ND

Switch Mode Power Supplies

AAD130/160 Series: • **Electrical Specification:** Input Voltage 90-264VAC, 47-63Hz, Load Regulation: ±1% for V1 and V2, ±5% for V3 and V4(AAD130 Series) or ±7% for V3, ±5% for V4(AAD160 Series); Power Factor: >0.98 at full load and 115/230VAC Input; Harmonic Distortion: Meets EN61000-3-2; Surge Withstand: Meets EN61000-4, Efficiency: Up to 88%; MTBF: MIL-STD-HDBK 217E >200,000 hrs. @25°C Highly Accelerated Life Testing • **Features:** Current Sharing, Remote Sense, AC Power Fail, Overshoot/ Undershoot, Overvoltage Protection, Short Circuit Protection, 2 yr. warranty

AAD600S Series: • **Electrical Specification:** Input voltage 85-264VAC, 47-63Hz; Load Regulation: ±0.25%; Power Factor: >0.99 at full load at 230VAC input; Surge Withstand: Meets EN61000-4-4 Level 3 and EN61000-4-5 Level 3, Efficiency: Up to 92%; MTBF: MIL-STD-HDBK 217E >200,000 hrs. @25°C Highly Accelerated Life Testing. • **Features:** Remote Sense, Current Sharing, AC Power Fail: Open Collector, DC OK: Open Collector: Overcurrent/ Short Circuit protection; Overvoltage Protection, Thermal Protection, 2 yr. warranty

PAS Series: • **Electrical Specifications:** Input Voltage: 85-132/180-264VAC, 47-63Hz; Load Regulation: ±0.5%; Harmonic Distortion: Meets EN61000-3-2 for Class A; Surge Withstand: Meets EN61000-4-5 Level 3; Efficiency: Up to 85%; MTBF: MIL-STD-HDBK 217E >200,000 hrs. @25°C Highly Accelerated Life Testing. • **Features:** Remote Sense, Thermal Shutdown, DC OK: Open Collector, AC Power Fail, Overvoltage and Reverse voltage protection, 2 yr. warranty

PAM Series (Medical Grade): • **Electrical Specifications:** Input Voltage: 85-132/180-264VAC, 47-63Hz; Load Regulation: ±0.5%; Harmonic Distortion: Meets EN61000-3-2 for Class A; Surge Withstand: Meets EN61000-4-5 Level 3; Efficiency: Up to 85%; MTBF: MIL-STD-HDBK 217E >200,000 hrs. @25°C Highly Accelerated Life Testing • **Features:** Remote Sense, Thermal Shutdown, DC OK: Open Collector, AC Power Fail, Overvoltage and Reverse voltage protection 2 yr. warranty

AAD130 / 160 Series

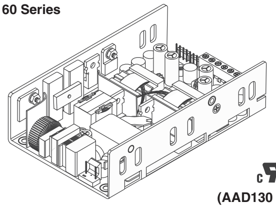

(AAD130 Series Only)

AAD600S Series

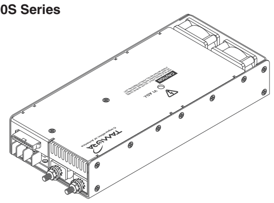

PAS / PAM Series

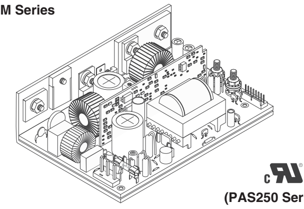

(PAS250 Series Only)

CFM Wattage (Pwr)‡	Convection Wattage§	Current Ratings				Dimensions Inches (mm) H x W x L	Input Power Housing	Input Power Contacts	Signal Housing	Signal Contacts	Digi-Key Part No.	Price Each			Tamura Part No.
		Voltage VDC	Min. Load (A)	Convection (A) Max. ▲	CFM Air (A) Max. ◊							1	10	25	
AAD130 Series															
130	80	5 3.3 12 -12	0.5 0.5 0.1 0.1	7 8 0.75 0.75	14 16 1.5 1.5	1.25 x 3.14 x 5 (31.75 x 79.76 x 127)	WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7334-ND	118.80	108.00	100.80	AAD130-3244-A
		5 3.3 15 -15	0.5 0.5 0.1 0.1	7 8 0.75 0.75	14 16 1.5 1.5	1.25 x 3.14 x 5 (31.75 x 79.76 x 127)	WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7335-ND	118.80	108.00	100.80	AAD130-3255-A
		5 3.3 24 -12	0.5 0.5 0.1 0.1	7 8 0.75 0.75	14 16 1.5 1.5	1.25 x 3.14 x 5 (31.75 x 79.76 x 127)	WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7336-ND	118.80	108.00	100.80	AAD130-3264-A
		5 12 -12	0.5 0.5 0.1	7 2.5 0.75	14 5 1.5	1.25 x 3.14 x 5 (31.75 x 79.76 x 127)	WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7337-ND	118.80	108.00	100.80	AAD130-3404-A
AAD160 Series															
160	80	5 3.3 12 -12	1.6 1.4 0.15 0.1	8 7 1.5 1	16 14 3 2	1.25 x 3.14 x 5 (31.75 x 79.76 x 127)	WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7338-ND	145.20	132.00	123.20	AAD160-3244-A
		5 3.3 24 -12	1.6 1.4 0.875 0.1	8 7 0.87 1	16 14 1.75 2	1.25 x 3.14 x 5 (31.75 x 79.76 x 127)	WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7339-ND	133.65	121.50	113.40	AAD160-3264-A
		5 12 -12	1.6 0.6 0.1	8 3 1	16 6 2	1.25 x 3.14 x 5 (31.75 x 79.76 x 127)	WM2112-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7340-ND	145.20	132.00	123.20	AAD160-3404-A
AAD600S Series															
600	—	12 5★	— —	— —	42 1	1.59 x 4 x 9 (40.39 x 101.6 x 228.6)	—	—	455-1908-ND	455-1909-1-ND†	MT7341-ND	387.75	352.50	329.00	AAD600S-4-P
		24 5★	— —	— —	23 1	1.59 x 4 x 9 (40.39 x 101.6 x 228.6)	—	—	455-1908-ND	455-1909-1-ND†	MT7342-ND	387.75	352.50	329.00	AAD600S-6-P
		48 5★	— —	— —	12.5 1	1.59 x 4 x 9 (40.39 x 101.6 x 228.6)	—	—	455-1908-ND	455-1909-1-ND†	MT7343-ND	387.75	352.50	329.00	AAD600S-9-P
PAS Series															
150	80	12	—	6.25	12.5	1.5 x 4 x 6 (38.1 x 101.6 x 152.4)	WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7328-ND	95.70	87.00	81.20	PAS150-4
		24	—	3.25	6.5						MT7329-ND	95.70	87.00	81.20	PAS150-6
		48	—	1.75	3.5						MT7330-ND	95.70	87.00	81.20	PAS150-9
250	130	12	—	10.5	21	1.5 x 4 x 7 (38.1 x 101.6 x 177.8)	WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7331-ND	138.60	126.00	117.60	PAS250-4
		24	—	5.25	10.5						MT7332-ND	138.60	126.00	117.60	PAS250-6
		48	—	2.75	5.5						MT7333-ND	138.60	126.00	117.60	PAS250-9
PAM Series (Medical Grade)															
150	80	12	—	6.25	12.5	1.5 x 4 x 6 (38.1 x 101.6 x 152.4)	WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7321-ND	125.40	114.00	106.40	PAM150-4
		24	—	3.25	6.5						MT7322-ND	125.40	114.00	106.40	PAM150-6
		48	—	1.75	3.5						MT7323-ND	125.40	114.00	106.40	PAM150-9
250	130	12	—	10.5	21	1.5 x 4 x 7 (38.1 x 101.6 x 177.8)	WM2114-ND	WM2300-NDΔ	WM2006-ND	WM1114-NDΔ	MT7324-ND	148.50	135.00	126.00	PAM250-4
		15	—	8.5	17						MT7325-ND	148.50	135.00	126.00	PAM250-5
		24	—	5.25	10.5						MT7326-ND	148.50	135.00	126.00	PAM250-6
		48	—	2.75	5.5						MT7327-ND	148.50	135.00	126.00	PAM250-9

‡ CFM, forced air wattage rating of the power supply. ▲ Convection rating is 50% of CFM rating the combined amperage ratings not to exceed maximum rated convection wattage of the power supply ◊ The combined amperage ratings should not exceed maximum rated wattage of the power supply. § Convection wattage of the power supply. † For Tape and Reel part number, change 1-ND to 2-ND. Δ Crimp tool for connector contacts; WM999-ND ★ Stanby Power voltage available as long as AC input is present.

Mating Connector, Contact and Crimp Tool for AAD600S Series

Description	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing	JST Part No.
		10	100	500		8,500	
10-Position 2.5mm Disconnectable Crimp Style SM Connector	455-1908-ND	2.58	21.50	85.98	—	—	SMR-10V-N
22-28 AWG Tin Plated Phospher Bronze Crimp Pin Contact	455-1909-1-ND†	.54	4.53	18.11	455-1909-2-ND	27.17/M	SYM-001T-P0.6
Crimp Tool with Die for 22-28 AWG Contacts (for JST contacts only)	455-1910-ND	419.19/1			—	—	WC-121

† Cut Tape

LAMBDA Power Supplies

DIN Rail

Features: **DLP Series:** • Low cost • 3 year warranty • Convection cooled **DLPPU Series:** • ORing diodes included • Alarm signals • LED indicators • DIN rail mounting **DPP Series:** • Low cost • Universal Input • Compact size • -10°C ~ 71°C operation • Convection cooled **DPP480 Series:** • Low cost • Wide range AC input • Active PFC • Parallel function switch • -25°C ~ 71°C operation • Convection cooled **DSP Series:** • Low profile for building automation • Wide range AC input • -25°C ~ 71°C operation • Convection cooled • DIN rail or chassis mount ***Note:*** *For safety and EMI certifications, please see series data sheets.*

Fig. 1 – DLP Series

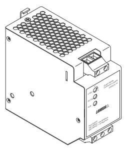

Fig. 2 – DLPPU Series

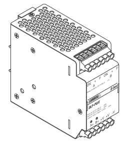

Fig. 3 – DPP Series

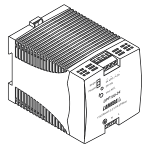

Fig. 4 – DPP480 Series

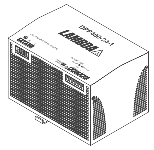

Fig. 5 – DSP Series

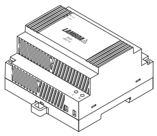

Fig.	Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
1	DLP	24	3.1	75	285-1210-ND	62.00	61.00	DLP75241/E
		24	4.1	98.4	285-1206-ND	84.00	81.00	DLP100241/E
		24	5	120	285-1207-ND	90.00	87.00	DLP120241/E
		24	7.5	180	285-1208-ND	122.00	120.00	DLP180241/E
		24	10	240	285-1209-ND	145.00	140.00	DLP240241/E
2	DLPPU	21 ~ 28VDC	20	—	285-1211-ND	91.00	86.00	DLPPU/E
3	DPP	5	5	25	285-1214-ND	48.00	46.00	DPP25-5
		12	2.5	30	285-1215-ND	48.00	46.00	DPP30-12
		15	3.4	50	285-1218-ND	54.00	51.00	DPP50-15
		24	0.63	15	285-1213-ND	40.00	38.00	DPP15-24
		24	1.3	30	285-1216-ND	48.00	46.00	DPP30-24
		24	2.1	50	285-1219-ND	54.00	51.00	DPP50-24
		24	4.2	100	285-1212-ND	77.00	72.00	DPP100-24
		48	1.05	50	285-1220-ND	54.00	51.00	DPP50-48
4	DPP480	24	20	480	285-1217-ND	200.00	180.00	DPP480241

Fig.	Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
5	DSP	5	1.5	7.5	285-1228-ND	24.20	20.50	DSP10-5
		5	3	15	285-1232-ND	39.00	32.00	DSP30-5
		5	7	35	285-1236-ND	47.00	40.00	DSP60-5
		12	0.83	10	285-1225-ND	24.20	20.50	DSP10-12
		12	2.1	25.2	285-1229-ND	39.00	32.00	DSP30-12
		12	4.5	54	285-1233-ND	47.00	40.00	DSP60-12
		12	6	72	285-1221-ND	61.43	52.00	DSP100-12
		15	0.67	10.1	285-1226-ND	24.20	20.50	DSP10-15
		15	2	30	285-1230-ND	39.00	32.00	DSP30-15
		15	4	60	285-1234-ND	47.00	40.00	DSP60-15
		15	5	75	285-1222-ND	61.43	52.00	DSP100-15
		24	0.42	10.1	285-1227-ND	24.20	20.50	DSP10-24
		24	1.3	31.2	285-1231-ND	39.00	32.00	DSP30-24
		24	2.5	60	285-1235-ND	47.00	40.00	DSP60-24
		24	3.8	91.2	285-1224-ND	61.43	52.00	DSP100-24/C2
		24	4.2	100.8	285-1223-ND	61.43	52.00	DSP100-24

Note: *DIN rail adapters also available for JWS, HK and HWS series power supplies listed under enclosed case.*

NEW! Board Mount — KPSA Series

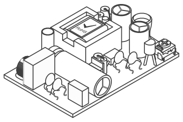

Features:

• Low Profile • Smaller Footprint • PC Board mountable • Low cost • UL Class II Approved • Wide input range • No external components needed • Minimized pcb space • Global use with no manual intervention • Easy to use • No ground connection needed.

Note: *For safety and EMI certifications, please see series data sheets.*

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
KPSA	5	1	5	285-1773-ND	19.13	16.88	KPSA55
		2	10	285-1769-ND	24.48	21.60	KPSA105
		3	15	285-1771-ND	29.45	25.99	KPSA155
	12	0.42	5	285-1754-ND	19.13	16.88	KPSA512
		0.84	10.1	285-1750-ND	24.48	21.60	KPSA1012
		1.25	15	285-1752-ND	29.45	25.99	KPSA1512

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
KPSA	15	0.33	5	285-1772-ND	19.13	16.88	KPSA515
		0.67	10.1	285-1768-ND	24.48	21.60	KPSA1015
		1	15	285-1770-ND	29.45	25.99	KPSA1515
	24	0.23	5.5	285-1755-ND	19.13	16.88	KPSA524
		0.42	10.1	285-1751-ND	24.48	21.60	KPSA1024
		0.63	15.1	285-1753-ND	29.45	25.99	KPSA1524

AC/DC Open Case

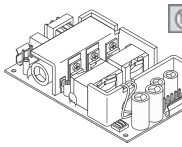

Features: KPS Series: • Small size and lightweight • PC board mountable • Low cost • Universal input voltage **ZWS Series:** • Universal input (85 ~ 265VAC) • Power factor corrected (>50W) • Input transient protected • 2 year warranty • High quality design • Peak power capability **ZP40/60 Series:** • Single and multiple outputs • Wide range AC input • Low profile, industry standard footprint **ZPSA20 Series:** • Single output • Wide range AC input • Low profile, industry standard footprint **SC40/60 Series:** • Low cost • Single and multiple outputs • Wide range AC input • Low profile **SCS120PW Series:** • Low profile • Convection cooled • Wide range AC input with PFC **MTW Series:** • 26mm height • 3 year warranty • Peak load capable • Light weight • Output 1 isolated from outputs 2 and 3 **ZWQ Series:** • Universal input (85 ~ 265VAC) • Power factor corrected • Floating adjustable fourth output • Low profile <1U high ***Note:*** *For safety and EMI certifications, please see series data sheets.*

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
				Single Output			
KPS	3.3	1.25	4.1	285-1420-ND	18.00	17.00	KPS53R3
	3.3	2.50	8.3	285-1410-ND	23.00	21.50	KPS103R3
	3.3	3	9.9	285-1415-ND	27.50	26.00	KPS153R3
	5	1	5	285-1421-ND	18.00	17.00	KPS55
	5	2	10	285-1411-ND	23.00	21.50	KPS105
	5	3	15	285-1416-ND	27.50	26.00	KPS155
	12	0.42	5	285-1417-ND	18.00	17.00	KPS512
	12	0.84	10.1	285-1407-ND	23.00	21.50	KPS1012
	12	1.25	15	285-1412-ND	27.50	26.00	KPS1512
	15	0.33	5	285-1418-ND	18.00	17.00	KPS515
	15	0.67	10.1	285-1408-ND	23.00	21.50	KPS1015
	15	1	15	285-1413-ND	27.50	26.00	KPS1515
	24	0.23	5.5	285-1419-ND	18.00	17.00	KPS524
	24	0.42	10.1	285-1409-ND	23.00	21.50	KPS1024
	24	0.63	15.1	285-1414-ND	27.50	26.00	KPS1524
ZWS	3.3	1	3.3	285-1733-ND	21.00	20.00	ZWS5-3
	3.3	6	19.8	285-1724-ND	34.00	33.00	ZWS30-3
	5	1	5	285-1734-ND	21.00	20.00	ZWS5-5
	5	2	10	285-1704-ND	25.00	24.00	ZWS10-5
	5	3	15	285-1717-ND	29.50	28.00	ZWS15-5
	5	10	50	285-1730-ND	42.00	40.00	ZWS50-5
	12	0.85	10.2	285-1702-ND	25.00	24.00	ZWS10-12
	12	1.25	15	285-1714-ND	29.50	28.00	ZWS15-12
	12	2.5	30	285-1721-ND	34.00	33.00	ZWS30-12
	12	4.3	51.6	285-1726-ND	42.00	40.00	ZWS50-12
	15	0.34	5.1	285-1731-ND	21.00	20.00	ZWS515
	15	1	15	285-1715-ND	29.50	28.00	ZWS15-15
	15	2	30	285-1722-ND	34.00	33.00	ZWS30-15
	15	3.5	52.5	285-1727-ND	42.00	40.00	ZWS50-15
	24	0.22	5.28	285-1732-ND	21.00	20.00	ZWS524

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
ZWS	24	0.45	10.8	285-1703-ND	25.00	24.00	ZWS10-24
	24	0.65	15.6	285-1716-ND	29.50	28.00	ZWS15-24
	24	1.3	31.2	285-1723-ND	34.00	33.00	ZWS30-24
	24	2.1	50.4	285-1728-ND	42.00	40.00	ZWS50-24
	36	0.9	32.4	285-1725-ND	34.00	33.00	ZWS30-36
	36	1.4	50.4	285-1729-ND	42.00	40.00	ZWS50-36
ZP40/60	3.3	6	20	285-1652-ND	35.71	34.74	ZPS403R3
	3.3	8	26	285-1658-ND	40.00	38.91	ZPS603R3
	5	6	30	285-1654-ND	36.00	34.00	ZPS405
	5	8	40	285-1660-ND	40.00	38.00	ZPS605
	12	3.34	40	285-1649-ND	36.00	34.00	ZPS4012
	12	5	60	285-1655-ND	40.00	38.00	ZPS6012
	15	2.67	40	285-1650-ND	36.00	34.00	ZPS4015
	15	4	60	285-1656-ND	40.00	38.00	ZPS6015
	24	1.67	40	285-1651-ND	36.00	34.00	ZPS4024
	24	2.5	60	285-1657-ND	40.00	38.00	ZPS6024
	48	0.834	40	285-1653-ND	36.00	34.00	ZPS4048
	48	1.25	60	285-1659-ND	40.00	38.00	ZPS6048
ZPSA20	3.3	4.4	20	285-1744-ND	22.95	20.25	ZPSA20-3R3
	5	4.4	20	285-1745-ND	22.95	20.25	ZPSA20-5
	9	2.45	20	285-1746-ND	22.95	20.25	ZPSA20-9
	12	1.8	20	285-1747-ND	22.95	20.25	ZPSA20-12
	15	1.4	20	285-1748-ND	22.95	20.25	ZPSA20-15
	24	0.92	20	285-1749-ND	22.95	20.25	ZPSA20-24
SC40/60	3.3	8	40	285-1583-ND	48.00	46.00	SCS403
	3.3	12	60	285-1590-ND	66.00	59.00	SCS603
	5	8	40	285-1585-ND	48.00	46.00	SCS405
	5	12	60	285-1592-ND	66.00	59.00	SCS605
	12	3.3	40	285-1579-ND	48.00	46.00	SCS4012

† 50W with 30CFM forced air cooling, derate linearly to 35W from 50C° ~ 70C°

(Continued)

LAMBDA Power Supplies

AC/DC Open Case *(Cont.)*

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	Lambda Part No.
SC40/60	12	5	60	285-1586-ND	66.00	59.00	SCS6012
	15	2.6	40	285-1580-ND	48.00	46.00	SCS4015
	15	4	60	285-1587-ND	66.00	59.00	SCS6015
	24	1.6	40	285-1581-ND	48.00	46.00	SCS4024
	24	2.5	60	285-1588-ND	66.00	59.00	SCS6024
	28	1.4	40	285-1582-ND	48.00	46.00	SCS4028
	28	2.1	60	285-1589-ND	66.00	59.00	SCS6028
	48	0.9	40	285-1584-ND	48.00	46.00	SCS4048
	48	1.3	60	285-1591-ND	66.00	59.00	SCS6048
SCS120PW	12	10	120	285-1576-ND	60.00	58.00	SCS120PW12
	15	8	120	285-1577-ND	60.00	58.00	SCS120PW15
	24	5	120	285-1578-ND	60.00	58.00	SCS120PW24
Dual Output							
SC40/60	12 -12	1.8 1.5	40	285-1572-ND	48.00	46.00	SCD401212
	15 -15	1.5 1.2	40	285-1573-ND	48.00	46.00	SCD401515
	12 -12	2.75 2.25	60	285-1574-ND	66.00	61.00	SCD601212
	15 -15	2.2 1.8	60	285-1575-ND	66.00	61.00	SCD601515
Triple Output							
MTW	5 12 -12	2 0.3 0.2	16	285-1475-ND	31.75	31.00	MTW15-51212
	5 15 -15	2 0.3 0.2	16	285-1476-ND	31.75	31.00	MTW15-51515
	5 12 -12	3 1.2 0.3	30	285-1477-ND	41.00	40.00	MTW30-51212
	5 15 -15	3 0.8 0.3	30	285-1478-ND	41.00	40.00	MTW30-51515
	5 12 -12	5 2.5 0.5	60	285-1479-ND	66.00	64.00	MTW60-51212
	5 15 -15	5 2 0.5	60	285-1480-ND	66.00	64.00	MTW60-51515
ZP40	5 12 -5	3.2 2 0.3	40.5†	285-1662-ND	51.26	45.23	ZPT405125N
	5 12 -12	3.2 2 0.3	42.6†	285-1661-ND	51.26	45.23	ZPT4051212N
	5 15 -15	3.2 1.5 0.3	42†	285-1663-ND	51.26	45.23	ZPT4051515N
	5 24 -12	3.2 1 0.3	42.6†	285-1664-ND	51.26	45.23	ZPT4052412N
	5 24 -5	3.2 1 0.3	40.5†	285-1665-ND	51.26	45.23	ZPT405245N
SC40/60	5 12 -12	4 2 0.5	40	285-1594-ND	48.00	46.00	SCT42
	5 12 -12	5 0.5 0.5	40	285-1595-ND	48.00	46.00	SCT43
	5 12 -5	4 2 0.5	40	285-1596-ND	48.00	46.00	SCT44

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	Lambda Part No.
SC40/60	5 24 -12	4 1 0.5	40	285-1598-ND	48.00	46.00	SCT46
	5 24 12	4 1 0.5	40	285-1599-ND	34.00	33.00	SCT47
	5 24 -5	4 1 0.5	40	285-1600-ND	34.00	33.00	SCT48
	3.3 5 ±12	4 2 0.5	40	285-1593-ND	62.00	57.00	SCT401
	5 12 -12	7 3 0.7	60	285-1601-ND	66.00	61.00	SCT62
	5 12 -5	7 3 0.7	60	285-1603-ND	52.02	45.90	SCT64
	5 24 12	7 1.5 0.7	60	285-1604-ND	66.00	61.00	SCT65
	5 24 -12	7 1.5 0.7	60	285-1605-ND	66.00	61.00	SCT66
	5 24 -5	7 1.5 0.7	60	285-1606-ND	52.02	45.90	SCT67
	5 15 12	7 3 0.92	60	285-1607-ND	52.02	45.90	SCT68
Quad Output							
ZWQ	5 12 -12 12	8 2 2 3	80	285-1691-ND	159.12	140.40	ZWQ805222
	5 12 -12 3.3	8 2 2 7	80	285-1692-ND	159.12	140.40	ZWQ805223
	5 12 -12 24	8 2 2 1.5	80	285-1693-ND	159.12	140.40	ZWQ805224
	5 12 -12 5	8 2 2 7	80	285-1694-ND	159.12	140.40	ZWQ805225
	5 12 -12 12	15 4 4 4	130	285-1687-ND	175.95	155.25	ZWQ1305222
	5 12 -12 3.3	15 4 4 10	130	285-1688-ND	175.95	155.25	ZWQ1305223
	5 12 -12 24	15 4 4 2	130	285-1689-ND	175.95	155.25	ZWQ1305224
	5 12 -12 5	15 4 4 10	130	285-1690-ND	175.95	155.25	ZWQ1305225

† 50W with 30CFM forced air cooling, derate linearly to 35W from 50C° ~ 70C°

Enclosed Case

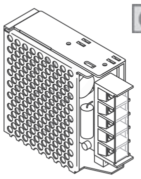

Features: ZWS-AF Series: • Universal input (85 ~ 265VAC) • Power factor corrected • Input transient protected • 2 year warranty • High quality design • Peak power capability **ZWS-PAF Series:** • Universal input (85 ~ 265VAC) • Power factor corrected • 200% peak power capability • 2 year warranty **HK-A Series:** • 3 year warranty • Small size • 85 ~ 132VAC input, 47 ~ 440Hz • ±10% output adjustment **HWS/HWS300-1500 Series:** • 5 year warranty • Universal input (85 ~ 265VAC) • High efficiency **HWS50-1500/HD Series:** • 5 year warranty • -10 ~ 71°C operation (-40°C start up) • Universal input (85 ~ 265VAC) • Conformally coated pcbs **HWS30-1500/ME Series:** • 5 year warranty • Medical approvals • Universal input (85 ~ 265VAC) • High efficiency **LZSA Series:** • 5 year warranty • -40 ~ 71°C operation • MIL-STD-810E vibration/shock • Input transient protected **JWS/JWT Series:** • 5 year warranty • Power factor corrected • Universal input (85 ~ 265VAC) **JWS508 Series:** • 5 year warranty • Power factor corrected • Universal input (85 ~ 265VAC) **SWS Series:** • Low cost • Universal input (85 ~ 265VAC) **SWS300/600 Series:** • Low cost • Active power factor correction • Universal input (85 ~ 265VAC) **SWS600L Series:** • Low cost • Low profile • Active power factor correction • Universal input (85 ~ 265VAC) • Low acoustical noise • 3 year warranty

Note: *For safety and EMI certifications, please see series data sheets.*

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	Lambda Part No.
Single Output							
ZWS-AF	3.3	20	66	285-1698-ND▲	78.00	74.00	ZWS100AF3
	5	15	75	285-1739-ND▲	68.00	66.00	ZWS75AF5
	5	20	100	285-1701-ND▲	78.00	74.00	ZWS100AF5
	5	30	150	285-1710-ND▲	98.00	95.00	ZWS150AF5
	12	6.3	75.6	285-1735-ND▲	68.00	66.00	ZWS75AF12
	12	8.5	102	285-1695-ND▲	78.00	74.00	ZWS100AF12
	12	12.5	150	285-1705-ND▲	98.00	95.00	ZWS150AF12
	15	5	75	285-1736-ND▲	68.00	66.00	ZWS75AF15
	15	6.7	100.5	285-1696-ND▲	78.00	74.00	ZWS100AF15
	15	10	150	285-1706-ND▲	98.00	95.00	ZWS150AF15
	24	3.2	76.8	285-1737-ND▲	68.00	66.00	ZWS75AF24
	24	4.3	103.2	285-1697-ND▲	78.00	74.00	ZWS100AF24

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	Lambda Part No.
ZWS-AF	24	6.3	151.2	285-1707-ND▲	98.00	95.00	ZWS150AF24
	36	2.8	100.8	285-1699-ND▲	78.00	74.00	ZWS100AF36
	36	4.2	151.2	285-1708-ND▲	98.00	95.00	ZWS150AF36
	48	1.6	76.8	285-1738-ND▲	68.00	66.00	ZWS75AF48
	48	2.1	100.8	285-1700-ND▲	78.00	74.00	ZWS100AF48
	48	3.2	153.6	285-1709-ND▲	98.00	95.00	ZWS150AF48
ZWS-PAF	24	6.3	151.2	285-1711-ND▲	120.00	118.00	ZWS150PAF24
	24	10	240	285-1718-ND▲	159.00	154.00	ZWS240PAF24
	36	4.2	151.2	285-1712-ND▲	120.00	118.00	ZWS150PAF36
	36	6.7	241.2	285-1719-ND▲	159.00	154.00	ZWS240PAF36

‡ 100/200VAC Input § Peak rating of 120A for 10s ▲ Without cover

† Peak current and power possible at 170-26VAC input, 10s maximum, 35% duty cycle

(Continued)

Enclosed Case *(Cont.)*

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	Lambda Part No.
ZWS-PAF	48	3.1	148.8	285-1713-ND▲	120.00	118.00	ZWS150PAF48
	48	5	240	285-1720-ND▲	159.00	154.00	ZWS240PAF48
HK-A	5	2	10	285-1248-ND	27.00	26.00	HK10A-5/A
	5	3	15	285-1256-ND	33.00	32.00	HK15A-5/A
	5	5	25	285-1260-ND	39.00	38.00	HK25A-5/A
	5	10	50	285-1264-ND	56.50	55.00	HK50A-5/A
	5	20	100	285-1244-ND	94.00	92.00	HK100A-5/A
	5	30	150	285-1252-ND	128.00	125.00	HK150A-5/A
	12	0.9	10.8	285-1245-ND	27.00	26.00	HK10A-12/A
	12	1.3	15.6	285-1253-ND	33.00	32.00	HK15A-12/A
	12	2.1	25.2	285-1257-ND	39.00	38.00	HK25A-12/A
	12	4.2	50.4	285-1261-ND	56.50	55.00	HK50A-12/A
	12	8.5	102	285-1241-ND	94.00	92.00	HK100A-12/A
	12	12.5	150	285-1249-ND	128.00	125.00	HK150A-12/A
	15	0.7	10.5	285-1246-ND	27.00	26.00	HK10A-15/A
	15	1	15	285-1254-ND	33.00	32.00	HK15A-15/A
	15	1.7	25.5	285-1258-ND	39.00	38.00	HK25A-15/A
	15	3.4	51	285-1262-ND	56.50	55.00	HK50A-15/A
	15	7	105	285-1242-ND	94.00	92.00	HK100A-15/A
	15	10	150	285-1250-ND	128.00	125.00	HK150A-15/A
	24	0.5	12	285-1247-ND	27.00	26.00	HK10A-24/A
	24	0.7	16.8	285-1255-ND	33.00	32.00	HK15A-24/A
	24	1.1	26.4	285-1259-ND	39.00	38.00	HK25A-24/A
	24	2.2	52.8	285-1263-ND	56.50	55.00	HK50A-24/A
	24	4.5	108	285-1243-ND	94.00	92.00	HK100A-24/A
	24	6.5	156	285-1251-ND	128.00	125.00	HK150A-24/A
HWS	3.3	3	9.9	285-1315-ND	42.00	40.00	HWS15-3/A
	3.3	6	19.8	285-1337-ND	54.00	52.00	HWS30-3/A
	3.3	10	33	285-1351-ND	115.00	111.00	HWS50-3/A
	3.3	20	66	285-1274-ND	166.00	161.00	HWS100-3/A
	3.3	30	99	285-1304-ND	216.00	208.00	HWS150-3/A
	5	3	15	285-1317-ND	42.00	40.00	HWS15-5/A
	5	6	30	285-1340-ND	54.00	52.00	HWS30-5/A
	5	10	50	285-1356-ND	115.00	111.00	HWS50-5/A
	5	20	100	285-1279-ND	166.00	161.00	HWS100-5/A
	5	30	150	285-1309-ND	216.00	208.00	HWS150-5/A
	12	1.3	15.6	285-1312-ND	42.00	40.00	HWS15-12/A
	12	2.5	30	285-1331-ND	54.00	52.00	HWS30-12/A
	12	4.3	51.6	285-1342-ND	115.00	111.00	HWS50-12/A
	12	8.5	102	285-1265-ND	166.00	161.00	HWS100-12/A
	12	13	156	285-1295-ND	216.00	208.00	HWS150-12/A
	15	1	15	285-1313-ND	42.00	40.00	HWS15-15/A
	15	2	30	285-1333-ND	54.00	52.00	HWS30-15/A
	15	3.5	52.5	285-1345-ND	115.00	111.00	HWS50-15/A
	15	7	105	285-1268-ND	166.00	161.00	HWS100-15/A
	15	10	150	285-1298-ND	216.00	208.00	HWS150-15/A
	24	0.65	15.6	285-1314-ND	42.00	40.00	HWS15-24/A
	24	1.3	31.2	285-1335-ND	54.00	52.00	HWS30-24/A
	24	2.2	52.8	285-1348-ND	115.00	111.00	HWS50-24/A
	24	4.5	108	285-1271-ND	166.00	161.00	HWS100-24/A
	24	6.5	156	285-1301-ND	216.00	208.00	HWS150-24/A
	48	0.33	15.84	285-1316-ND	42.00	40.00	HWS15-48/A
	48	0.65	31.2	285-1338-ND	54.00	52.00	HWS30-48/A
	48	1.1	52.8	285-1353-ND	115.00	111.00	HWS50-48/A
	48	2.1	100.8	285-1276-ND	166.00	161.00	HWS100-48/A
	48	3.3	158.4	285-1306-ND	216.00	208.00	HWS150-48/A
HWS300-1500	3.3	60	198	285-1325-ND	365.00	328.01	HWS300-3
	3.3	120	396	285-1366-ND	555.00	540.00	HWS600-3
	5	60	300	285-1329-ND	365.00	328.01	HWS300-5
	5	120	600	285-1370-ND	555.00	540.00	HWS600-5
	12	27	324	285-1318-ND	365.00	328.01	HWS300-12
	12	53	636	285-1359-ND	555.00	540.00	HWS600-12
	12	125	1,500	285-1282-ND	1200.00	1125.01	HWS150012
	15	22	330	285-1320-ND	365.00	328.01	HWS300-15
	15	43	645	285-1361-ND	555.00	540.00	HWS600-15
	15	100	1,500	285-1284-ND	1200.00	1125.01	HWS150015
	24	14	336	285-1322-ND	365.00	328.01	HWS300-24
	24	27	648	285-1363-ND	555.00	540.00	HWS600-24
	24	65/70‡	1,560/1,680	285-1286-ND	1200.00	1125.01	HWS150024
	36	42/46.5‡	1,512/1,674	285-1289-ND	1200.00	1125.01	HWS150036
	48	7	336	285-1327-ND	365.00	328.01	HWS300-48
	48	13	624	285-1368-ND	555.00	540.00	HWS600-48
	48	32	1,536	285-1292-ND	1200.00	1125.01	HWS150048
HWS50-1500/HD	3.3	10	33	285-1352-ND▲	151.00	147.00	HWS50-3/HD
	3.3	20	66	285-1275-ND▲	211.00	206.00	HWS100-3/HD
	3.3	30	99	285-1305-ND▲	273.00	264.01	HWS150-3/HD
	3.3	60	198	285-1326-ND	484.00	435.00	HWS300-3/HD
	3.3	120	396	285-1367-ND	605.00	586.00	HWS600-3/HD
	5	10	50	285-1357-ND▲	151.00	147.00	HWS50-5/HD
	5	20	100	285-1280-ND▲	211.00	206.00	HWS100-5/HD
	5	30	150	285-1310-ND▲	273.00	264.01	HWS150-5/HD
	5	60	300	285-1330-ND	484.00	435.00	HWS300-5/HD
	5	120	600	285-1371-ND	620.00	602.01	HWS600-5HD
	12	4.3	51.6	285-1343-ND▲	151.00	147.00	HWS50-12/HD
	12	8.5	102	285-1266-ND▲	211.00	206.00	HWS100-12/HD
	12	13	156	285-1296-ND▲	273.00	264.01	HWS150-12/HD
	12	27	324	285-1319-ND	484.00	435.00	HWS300-12/HD
	12	53	636	285-1360-ND	620.00	602.01	HWS600-12/HD
	12	125	1500	285-1283-ND▲	1550.00	1475.01	HWS150012/HD
	15	3.5	52.5	285-1346-ND▲	151.00	147.00	HWS50-15/HD
	15	7	105	285-1269-ND▲	211.00	206.00	HWS100-15/HD
	15	10	150	285-1299-ND▲	273.00	264.01	HWS150-15/HD
	15	22	330	285-1321-ND	484.00	435.00	HWS300-15/HD
	15	43	645	285-1362-ND	620.00	602.01	HWS600-15/HD
	15	100	1500	285-1285-ND	1550.00	1475.01	HWS150015/HD
	24	2.2	52.8	285-1349-ND▲	151.00	147.00	HWS50-24/HD
	24	4.5	108	285-1272-ND▲	211.00	206.00	HWS100-24/HD
	24	6.5	156	285-1302-ND▲	273.00	264.01	HWS150-24/HD
	24	14	336	285-1323-ND	484.00	435.00	HWS300-24/HD
	24	27	648	285-1364-ND	620.00	602.01	HWS600-24/HD
	24	65/70‡	1560/1680‡	285-1287-ND	1550.00	1475.01	HWS150024/HD
	36	42/46.5‡	1512/1674‡	285-1290-ND	1550.00	1475.01	HWS150036/HD
	48	1.1	52.8	285-1354-ND▲	151.00	147.00	HWS50-48/HD
	48	2.1	100.8	285-1277-ND▲	211.00	206.00	HWS100-48/HD
	48	3.3	158.4	285-1307-ND▲	273.00	264.01	HWS150-48/HD
	48	7	336	285-1328-ND	484.00	435.00	HWS300-48/HD
	48	13	624	285-1369-ND	620.00	602.01	HWS600-48HD
HWS30-1500/ME	48	32	1536	285-1293-ND	1550.00	1475.01	HWS150048/HD
	5	6	30	285-1341-ND▲	54.00	52.00	HWS30-5/ME
	5	10	50	285-1358-ND▲	122.00	118.00	HWS50-5/ME
	5	20	100	285-1281-ND▲	168.00	163.00	HWS100-5/ME
	5	30	150	285-1311-ND▲	221.00	215.00	HWS150-5/ME
	12	2.5	30	285-1332-ND▲	54.00	52.00	HWS30-12/ME
	12	4.3	51.6	285-1344-ND▲	122.00	118.00	HWS50-12/ME
	12	8.5	102	285-1267-ND▲	168.00	163.00	HWS100-12/ME
	12	13	156	285-1297-ND▲	221.00	215.00	HWS150-12/ME
	15	2	30	285-1334-ND▲	54.00	52.00	HWS30-15/ME
	15	3.5	52.5	285-1347-ND▲	122.00	118.00	HWS50-15/ME
	15	7	105	285-1270-ND▲	168.00	163.00	HWS100-15/ME
	15	10	150	285-1300-ND▲	221.00	215.00	HWS150-15/ME
	24	1.3	31.2	285-1336-ND▲	54.00	52.00	HWS30-24/ME
	24	2.2	52.8	285-1350-ND▲	122.00	118.00	HWS50-24/ME
	24	4.5	108	285-1273-ND▲	168.00	163.00	HWS100-24/ME
	24	6.5	156	285-1303-ND▲	221.00	215.00	HWS150-24/ME
	24	14	336	285-1324-ND	410.00	368.00	HWS300-24/ME
	24	27	648	285-1365-ND	605.00	586.00	HWS600-24/ME
	24	65	1560	285-1288-ND	1300.00	1240.00	HWS150024/ME
	36	42	1512	285-1291-ND	1300.00	1240.00	HWS150036/ME
	48	0.65	31.2	285-1339-ND▲	54.00	52.00	HWS30-48/ME
	48	1.1	52.8	285-1355-ND▲	122.00	118.00	HWS50-48/ME
	48	2.1	100.8	285-1278-ND▲	168.00	163.00	HWS100-48/ME
	48	3.3	158.4	285-1308-ND▲	221.00	215.00	HWS150-48/ME
	48	32	1536	285-1294-ND	1300.00	1240.00	HWS150048/ME
LZSA	24	21	504	285-1456-ND	997.00	890.01	LZSA-500-3
	24	42	1008	285-1455-ND	1300.00	1175.01	LZSA-1000-3
JWS	3.3	10	33	285-1047-ND	120.00	116.00	JWS503/A
	3.3	20	66	285-1384-ND	190.00	185.00	JWS1003/A
	5	10	50	285-1048-ND	120.00	116.00	JWS505/A
	5	15	75	285-1053-ND	161.00	152.00	JWS755/A
	5	20	100	285-1057-ND	190.00	185.00	JWS1005/A
	5	30	150	285-1061-ND	247.00	239.00	JWS1505/A
	5	60	300	285-1101-ND▲	382.00	345.00	JWS3005
	5	120	600	285-1105-ND▲	584.00	555.00	JWS6005
	12	4.3	51.6	285-1049-ND	120.00	116.00	JWS5012/A
	12	6.3	75.6	285-1054-ND	161.00	152.00	JWS7512/A
	12	8.5	102	285-1058-ND	190.00	185.00	JWS10012/A
	12	13	156	285-1062-ND	247.00	239.00	JWS15012/A
	12	27	324	285-1102-ND▲	382.00	345.00	JWS30012
	12	53	636	285-1106-ND▲	584.00	555.00	JWS60012
	15	3.5	52.5	285-1393-ND	120.00	116.00	JWS5015/A
	15	5	75	285-1402-ND	161.00	152.00	JWS7515/A
	15	7	105	285-1382-ND	190.00	185.00	JWS10015/A
	15	10	150	285-1385-ND	247.00	239.00	JWS15015/A
	15	22	330	285-1387-ND▲	382.00	345.00	JWS30015
	15	43	645	285-1396-ND▲	584.00	555.00	JWS60015
	24	2.2	52.8	285-1050-ND	120.00	116.00	JWS5024/A
	24	3.2	76.8	285-1055-ND	161.00	152.00	JWS7524/A
	24	4.5	108	285-1059-ND	190.00	185.00	JWS10024/A
	24	6.5	156	285-1063-ND	247.00	239.00	JWS15024/A
	24	14	336	285-1103-ND▲	382.00	345.00	JWS30024
	24	27	648	285-1107-ND▲	584.00	555.00	JWS60024
	28	2	56	285-1394-ND	120.00	116.00	JWS5028/A
	28	3.6	100.8	285-1383-ND	190.00	185.00	JWS10028/A
	28	12	336	285-1390-ND▲	382.00	345.00	JWS30028
	28	23	644	285-1398-ND▲	584.00	555.00	JWS60028
	48	1.1	52.8	285-1051-ND	120.00	116.00	JWS5048/A
	48	1.6	76.8	285-1056-ND	161.00	152.00	JWS7548/A
	48	2.1	100.8	285-1060-ND	190.00	185.00	JWS10048/A
	48	3.3	158.4	285-1064-ND	247.00	239.00	JWS15048/A
	48	6.5	312	285-1104-ND▲	382.00	345.00	JWS30048
	48	13	624	285-1108-ND▲	584.00	555.00	JWS60048
JWS508	24	3	72	285-1401-ND	219.00	213.00	JWS70P-24/508
	24	10	240	285-1386-ND	439.00	397.00	JWS240P-24/508
	24	14	336	285-1389-ND	382.00	345.00	JWS30024/508
SWS	3.3	10	33	285-1626-ND	37.00	36.00	SWS503
	5	10	50	285-1627-ND	37.00	36.00	SWS505
	5	15	75	285-1638-ND	42.50	42.00	SWS755
	5	20	100	285-1611-ND	54.00	53.00	SWS1005
	5	30	150	285-1615-ND	65.00	63.00	SWS1505
	12	4.3	51.6	285-1623-ND	37.00	36.00	SWS5012
	12	6.3	75.6	285-1635-ND	42.50	42.00	SWS7512
	12	8.5	102	285-1608-ND	54.00	53.00	SWS10012
	12	12.5	150	285-1612-ND	65.00	63.00	SWS15012
	15	3.5	52.5	285-1624-ND	37.00	36.00	SWS5015
	15	5	75	285-1636-ND	42.50	42.00	SWS7515
	15	6.7	100.5	285-1609-ND	54.00	53.00	SWS10015
	15	10	150	285-1613-ND	65.00	63.00	SWS15015
	24	2.1	50.4	285-1625-ND	37.00	36.00	SWS5024
	24	3.2	76.8	285-1637-ND	42.50	42.00	SWS7524
	24	4.3	103.2	285-1610-ND	54.00	53.00	SWS10024
	24	6.3	151.2	285-1614-ND	65.00	63.00	SWS15024
SWS300/600	3.3	55	181.5	285-1619-ND	125.00	121.00	SWS3003
	3.3	100§	330	285-1631-ND	224.00	217.00	SWS6003
	5	55	275	285-1622-ND	125.00	121.00	SWS3005
	5	100§	500	285-1634-ND	224.00	217.00	SWS6005
	12	26	312	285-1616-ND	125.00	121.00	SWS30012
	12	50	600	285-1628-ND	224.00	217.00	SWS60012
	15	21	315	285-1617-ND	125.00	121.00	SWS30015
	15	40	600	285-1629-ND	224.00	217.00	SWS60015
	24	13	312	285-1618-ND	125.00	121.00	SWS30024
	24	25	600	285-1630-ND	224.00	217.00	SWS60024
	36	8.7	313.2	285-1620-ND	125.00	121.00	SWS30036
	36	16.7	601.2	285-1632-ND	224.00	217.00	SWS60036
	48	6.7	321.6	285-1621-ND	125.00	121.00	SWS30048
	48	12.5	600	285-1633-ND	224.00	217.00	SWS60048
SWS600L	5	120	600	285-1743-ND	240.21	211.95	SWS600L-5
	12	53	636	285-1741-ND	240.21	211.95	SWS600L-12
	24	27/31†	648/744†	285-1742-ND	240.21	211.95	SWS600L-24

‡ 100/200VAC Input § Peak rating of 120A for 10s ▲ Without cover

† Peak current and power possible at 170-26VAC input, 10s maximum, 35% duty cycle

(Continued)

Enclosed Case *(Cont.)*

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
Triple Output							
JWT	5 12 -12	8 4 0.5	75	285-1405-ND	158.47	147.32	JWT75-522/A
	5 15 -15	8 3.2 0.5	75	285-1406-ND	158.47	147.32	JWT75-5FF/A
	5 12 -12	13 5.5 1	100	285-1403-ND	186.97	173.81	JWT100-522/A

Series	Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
JWT	5 15 -15	13 4.5 1	100	285-1404-ND	186.97	173.81	JWT100-5FF/A
DIN Rail Kit for JWS50 and JWS75				285-1440-ND	12.50	11.30	LDIN50/75
DIN Rail Kit for JWS100 and JWS150				285-1437-ND	14.50	13.00	LDIN100/150
DIN Rail Kit for JWS300 and JWS600				285-1439-ND	65.00	62.00	LDIN300/600
DIN Rail Kit for HK10A-HK50A				285-1438-ND	12.50	11.30	LDIN30
DIN Rail Bracket for HWS15 and HWS30				285-1203-ND	16.75	15.00	DIN01
DIN Rail Bracket for HWS50				285-1204-ND	16.75	15.00	DIN02
DIN Rail Bracket for HWS100 and HWS150				285-1205-ND	20.00	18.50	DIN03

‡ 100/200VAC Input § Peak rating of 120A for 10s ▲ Without cover
† Peak current and power possible at 170-26VAC input, 10s maximum, 35% duty cycle

ZUP Series Programmable

Features:

- Constant voltage/constant current • Last setting memory • Digital meters
- Built-in RS232 and RS485 interface with GPIB optional • Bench or rack mount
- Embedded microprocessor controller • Voltage up to 120V, current up to 132A

Note: *For safety and EMI certifications, please see data sheets.*

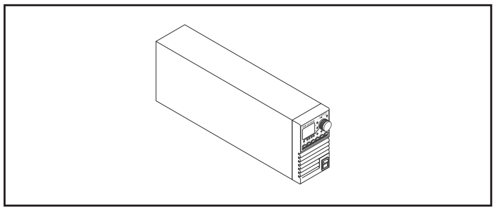

Voltage Range (V)	Current Range (A)	Maximum Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
0 ~ 6	0 ~ 33	198	285-1683-ND	956.00	860.00	ZUP6-33/U
0 ~ 6	0 ~ 66	396	285-1684-ND	1261.00	1135.00	ZUP6-66/U
0 ~ 6	0 ~ 132	792	285-1682-ND	1785.00	1607.01	ZUP6-132/U
0 ~ 10	0 ~ 20	200	285-1668-ND	956.00	860.00	ZUP10-20/U
0 ~ 10	0 ~ 40	400	285-1669-ND	1261.00	1135.00	ZUP10-40/U
0 ~ 10	0 ~ 80	800	285-1670-ND	1785.00	1607.01	ZUP10-80/U
0 ~ 20	0 ~ 10	200	285-1673-ND	956.00	860.00	ZUP20-10/U
0 ~ 20	0 ~ 20	400	285-1674-ND	1261.00	1135.00	ZUP20-20/U
0 ~ 20	0 ~ 40	800	285-1675-ND	1785.00	1607.01	ZUP20-40/U
0 ~ 36	0 ~ 6	216	285-1678-ND	956.00	860.00	ZUP36-6/U
0 ~ 36	0 ~ 12	432	285-1676-ND	1261.00	1135.00	ZUP36-12/U
0 ~ 36	0 ~ 24	864	285-1677-ND	1785.00	1607.01	ZUP36-24/U
0 ~ 60	0 ~ 7	420	285-1681-ND	1261.00	1135.00	ZUP60-7/U
0 ~ 60	0 ~ 14	840	285-1679-ND	1785.00	1607.01	ZUP60-14/U
0 ~ 80	0 ~ 2.5	200	285-1685-ND	956.00	860.00	ZUP80-2.5/U
0 ~ 80	0 ~ 5	400	285-1686-ND	1261.00	1135.00	ZUP80-5/U
0 ~ 120	0 ~ 1.8	216	285-1671-ND	956.00	860.00	ZUP120-1.8/U
0 ~ 120	0 ~ 3.6	432	285-1672-ND	1261.00	1135.00	ZUP120-3.6/U
RS232 Communications Cable DB-9			285-1666-ND	36.45	34.00	ZUP/NC401
RS485 Communications Cable DB-9			285-1667-ND	36.45	34.00	ZUP/NC402

Front End Switching

Features:

TH Series: • 1U high • Up to 10,000W in 19" rack • Hot swap capable • High efficiency

TL Series: • 2U high • Up to 12,500W in 19" rack • Hot swap capable • >90% efficiency • Full power at 65°C ambient

FPS1000 Series: • 1U high • Up to 3000W (3 units) in 19" rack • Hot swap capable (ORing diodes built in) • Low cost • PoE option

Note: *For safety and EMI certifications, please see series data sheets.*

Fig. 1 – TH Series

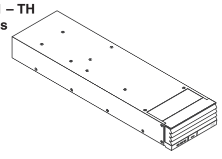

Fig. 2 – TL Series

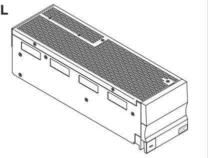

Fig. 3 – FPS1000 Series

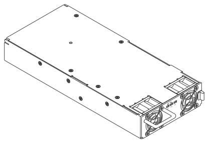

Fig.	Output Voltage (V)	Output Current (A)	Maximum Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
1	12	100	1200	285-1639-ND§	915.00	865.00	TH120012
	24	50	1250	285-1640-ND	860.00	810.01	TH120024
	48	25	1250	285-1641-ND	840.00	790.00	TH120048
	48	40	2000	285-1642-ND	1200.00	1150.01	TH200048
2	24	40	1000	285-1645-ND	800.00	760.00	TL100024
	48	20	1000	285-1646-ND	800.00	760.00	TL100048
3	24	40	960	285-1237-ND	600.00	525.00	FPS100024

Fig.	Output Voltage (V)	Output Current (A)	Maximum Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
3	32	31	992	285-1238-ND	600.00	525.00	FPS100032
	48	21	1008	285-1239-ND	600.00	525.00	FPS100048
19" Rack for THRBP				285-1643-ND	660.00	630.00	THR4
Blanking Panel				285-1644-ND	140.00	132.00	THRBP
19" Rack for TLRBP				285-1647-ND	490.00	465.01	TLR5
Blanking Panel				285-1648-ND	95.00	90.00	TLRBP
3 Slot Rack for FPS1000				285-1240-ND	640.00	560.01	FPSS1U

§ Use rack model THR400

AC/DC PCB Mount

Features: KM Series: • Small size and lightweight • PC board mountable • Wide Range Input • Medical Safety Certifications (4kVAC Input-Output) • Class II (No ground needed) **KW Series:** • Small size and lightweight • PC board mountable • -10 ~ 70°C continuous operation • 85 ~ 265VAC wide range input • Convection cooled **PFE500/700 Series:** • Low profile, small size • 100°C baseplate temperature • High power density • High efficiency
Note: *For safety and EMI certifications, please see series data sheets.*

Fig. 1 – KM Series *NEW!*

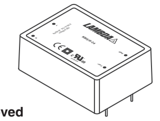

Medical Approved

Fig. 2 – KW Series

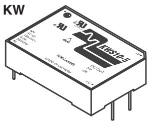

Fig. 3 – PFE500/700 Series

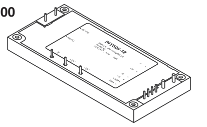

Fig.	Output Voltage (V)	Output Current (A)	Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
NEW! Single Output — Medical Approved NEW!							
1	3.3	3	9.9	285-1782-ND	49.34	43.54	KMS153P3
	3.3	8	26.4	285-1783-ND	74.21	65.48	KMS403P3
	5	3	15	285-1765-ND	49.34	43.54	KMS155
	5	8	40	285-1767-ND	74.21	65.48	KMS405
	12	1.25	15	285-1763-ND	49.34	43.54	KMS1512
	12	3.33	40	285-1757-ND	74.21	65.48	KMS4012
	15	2.67	40	285-1766-ND	74.21	65.48	KMS4015
	15	1	15	285-1764-ND	49.34	43.54	KMS1515
	24	0.62	15	285-1756-ND	49.34	43.54	KMS1524
	24	1.67	40	285-1758-ND	74.21	65.48	KMS4024
NEW! Dual Output — Medical Approved NEW!							
1	±5	1.5	15	285-1779-ND	53.55	47.25	KMD1555
	±5	4	40	285-1774-ND	79.56	70.20	KMD4055
	±12	0.62	15	285-1759-ND	53.55	47.25	KMD151212
	±12	1.66	40	285-1761-ND	79.56	70.20	KMD401212
	±15	0.50	15	285-1760-ND	53.55	47.25	KMD151515
	±15	1.33	40	285-1762-ND	79.56	70.20	KMD401515
	5/12	1.25	40	285-1780-ND	79.56	70.20	KMD40512
	5/24	0.62	40	285-1781-ND	79.56	70.20	KMD40524
NEW! Triple Output — Medical Approved NEW!							
1	5/±12	0.20	15	285-1775-ND	69.62	61.43	KMT1551212
	5/±12	0.60	40	285-1777-ND	94.48	83.37	KMT4051212
	5/±15	0.15	15	285-1776-ND	69.62	61.43	KMT1551515
	5/±15	0.50	40	285-1778-ND	94.48	83.37	KMT4051515

Fig.	Output Voltage (V)	Output Current (A)	Power (W)	Digi-Key Part No.	Price Each 1	10	Lambda Part No.
Single Output							
2	5	1	5	285-1436-ND	51.00	47.00	KWS5-5
	5	2	10	285-1430-ND	65.00	59.00	KWS10-5
	5	3	15	285-1433-ND	76.00	70.00	KWS15-5
	12	0.45	5	285-1434-ND	51.00	47.00	KWS5-12
	12	0.9	10	285-1428-ND	65.00	59.00	KWS10-12
	12	1.3	15	285-1431-ND	76.00	70.00	KWS15-12
	15	0.35	5	285-1435-ND	51.00	47.00	KWS5-15
	15	0.7	10	285-1429-ND	65.00	59.00	KWS10-15
	15	1	15	285-1432-ND	76.00	70.00	KWS15-15
3	12	33	396	285-1493-ND	273.00	245.00	PFE500S12
	28	18	504	285-1494-ND	273.00	245.00	PFE500S28
	48	10.5	504	285-1495-ND	273.00	245.00	PFE500S48
	51	14	714	285-1496-ND	298.00	265.01	PFE700S48
Dual Output							
2	±12	±0.22	5	285-1426-ND	58.00	53.00	KWD5-1212
	±12	±0.45	10	285-1422-ND	73.00	67.00	KWD10-1212
	±12	±0.65	15	285-1424-ND	86.00	79.00	KWD15-1212
	±15	±0.18	5	285-1427-ND	45.71	44.47	KWD5-1515
	±15	±0.36	10	285-1423-ND	73.00	67.00	KWD10-1515
	±15	±0.52	15	285-1425-ND	86.00	79.00	KWD15-1515

LAMBDA DC-DC Converters

Features: • Compact size • No tantalum capacitor and no aluminum electrolytic capacitor are used • Output voltage tolerance ±3% at single output, ±5% at dual output units • PWB halogen-free • Input fuse • No external components required • 5-sided metal shielded • 500VAC input to output isolation **Note:** *For safety and EMI certifications please see series data sheets*

Dimensions in mm

Fig. 1 — CC1R5 Series

A – DIP Type

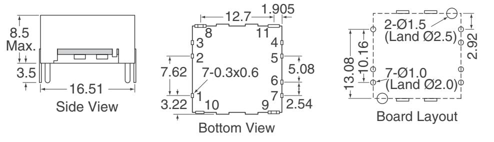

CC1R5 Series	
Dual Output	
Pin	**Function**
1	+Vin
2	RC
3	-Vin
4	-Vout
5	Common Out
6	TRM
7	+Vout

B – SMD Type

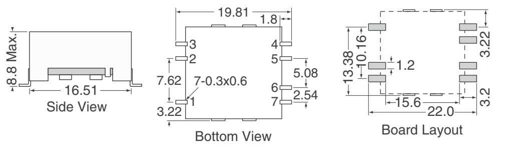

CC1R5 Series	
Single Output	
Pin	**Function**
1	+Vin
2	RC
3	-Vin
4	NC
5	-Vout
6	TRM
7	+Vout

Fig. 2 — CC3 Series

A – DIP Type

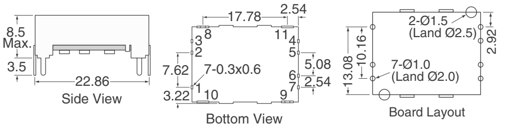

CC3 Series	
Dual Output	
Pin	**Function**
1	+Vin
2	RC
3	-Vin
4	-Vout
5	Common Out
6	TRM
7	+Vout

B – SMD Type

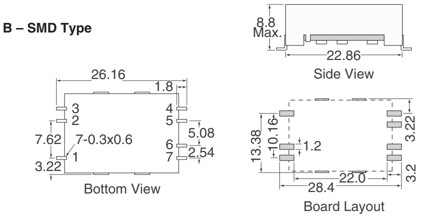

CC3 Series	
Single Output	
Pin	**Function**
1	+Vin
2	RC
3	-Vin
4	NC
5	-Vout
6	TRM
7	+Vout

Fig. 3 — CC6 Series

A – DIP Type

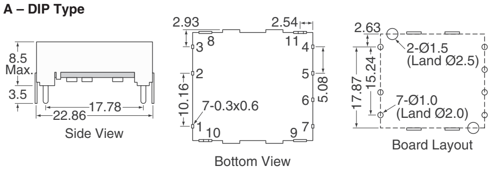

CC6 Series	
Dual Output	
Pin	**Function**
1	+Vin
2	RC
3	-Vin
4	-Vout
5	Common Out
6	TRM
7	+Vout

B – SMD Type

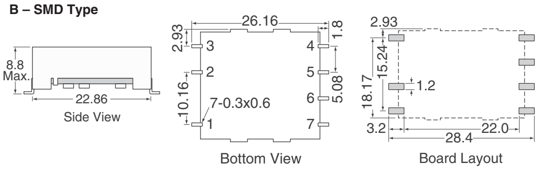

CC6 Series	
Single Output	
Pin	**Function**
1	+Vin
2	RC
3	-Vin
4	NC
5	-Vout
6	TRM
7	+Vout

Fig.	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each		Lambda Part No.
						1	10	
CC1R5 Series — Single Output								
1A	4.5 ~ 9	3.3	.400	1.5	445-2444-ND	9.60	9.15	CC1R5-0503SF-E
	4.5 ~ 9	5	.300	1.5	445-2446-ND	9.60	9.15	CC1R5-0505SF-E
	4.5 ~ 9	12 ~ 15	.125	1.5	445-2448-ND	9.60	9.15	CC1R5-0512SF-E
	9 ~ 18	3.3	.400	1.5	445-2450-ND	9.60	9.15	CC1R5-1203SF-E
	9 ~ 18	5	.300	1.5	445-2452-ND	9.60	9.15	CC1R5-1205SF-E
	9 ~ 18	12 ~ 15	.125	1.5	445-2455-ND	9.60	9.15	CC1R5-1212SF-E
	18 ~ 36	3.3	.400	1.5	445-2456-ND	9.60	9.15	CC1R5-2403SF-E
	18 ~ 36	5	.300	1.5	445-2457-ND	9.60	9.15	CC1R5-2405SF-E
	18 ~ 36	12 ~ 15	.125	1.5	445-2459-ND	9.60	9.15	CC1R5-2412SF-E
	36 ~ 76	3.3	.400	1.3	445-3264-ND	9.60	9.15	CC1R5-4803SF-E
	36 ~ 76	5	.300	1.5	445-3265-ND	9.60	9.15	CC1R5-4805SF-E
	36 ~ 76	12 ~ 15	.100	1.5	445-3266-ND	9.60	9.15	CC1R5-4812SF-E
1B	4.5 ~ 9	3.3	.400	1.5	445-2445-ND	9.60	9.15	CC1R5-0503SR-E
	4.5 ~ 9	5	.300	1.5	445-3267-ND	9.60	9.15	CC1R5-0505SR-E
	4.5 ~ 9	12 ~ 15	.125	1.5	445-2449-ND	9.60	9.15	CC1R5-0512SR-E
	9 ~ 18	3.3	.400	1.5	445-2451-ND	9.60	9.15	CC1R5-1203SR-E
	9 ~ 18	5	.300	1.5	445-2453-ND	9.60	9.15	CC1R5-1205SR-E
	9 ~ 18	12 ~ 15	.100	1.5	445-3268-ND	9.60	9.15	CC1R5-1212SR-E
	18 ~ 36	3.3	.400	1.3	445-3269-ND	9.60	9.15	CC1R5-2403SR-E
	18 ~ 36	5	.300	1.5	445-3270-ND	9.60	9.15	CC1R5-2405SR-E
	18 ~ 36	12 ~ 15	.100	1.5	445-3271-ND	9.60	9.15	CC1R5-2412SR-E
	36 ~ 76	3.3	.400	1.3	445-3272-ND	9.60	9.15	CC1R5-4803SR-E
	36 ~ 76	5	.300	1.5	445-3273-ND	9.60	9.15	CC1R5-4805SR-E
	36 ~ 76	12 ~ 15	.100	1.5	445-3274-ND	9.60	9.15	CC1R5-4812SR-E
CC1R5 Series — Dual Output								
1A	4.5 ~ 9	±12 ~ 15	.600	1.5	445-2447-ND	9.60	9.15	CC1R5-0512DF-E
	9 ~ 18	±12 ~ 15	.600	1.5	445-2454-ND	9.60	9.15	CC1R5-1212DF-E
	18 ~ 36	±12 ~ 15	.600	1.5	445-2458-ND	9.60	9.15	CC1R5-2412DF-E
	36 ~ 76	±12 ~ 15	.050	1.5	445-3312-ND	9.60	9.15	CC1R5-4812DF-E
1B	4.5 ~ 9	±12 ~ 15	.050	1.5	445-3313-ND	9.60	9.15	CC1R5-0512DR-E
	9 ~ 18	±12 ~ 15	.050	1.5	445-3314-ND	9.60	9.15	CC1R5-1212DR-E
	18 ~ 36	±12 ~ 15	.050	1.5	445-3315-ND	9.60	9.15	CC1R5-2412DR-E
	36 ~ 76	±12 ~ 15	.050	1.5	445-3316-ND	9.60	9.15	CC1R5-4812DR-E
CC3 Series — Single Output								
2A	4.5 ~ 9	3.3	.800	3.0	445-2462-ND	11.10	10.70	CC3-0503SF-E
	4.5 ~ 9	5	.600	3.0	445-2464-ND	11.10	10.70	CC3-0505SF-E
	4.5 ~ 9	12 ~ 15	.250	3.0	445-2466-ND	11.10	10.70	CC3-0512SF-E
	9 ~ 18	3.3	.800	3.0	445-2468-ND	11.10	10.70	CC3-1203SF-E
	9 ~ 18	5	.600	3.0	445-2470-ND	11.10	10.70	CC3-1205SF-E
	9 ~ 18	12 ~ 15	.250	3.0	445-2473-ND	11.10	10.70	CC3-1212SF-E
	18 ~ 36	3.3	.800	3.0	445-2474-ND	11.10	10.70	CC3-2403SF-E
	18 ~ 36	5	.600	3.0	445-2475-ND	11.10	10.70	CC3-2405SF-E
	18 ~ 36	12 ~ 15	.250	3.0	445-2477-ND	11.10	10.70	CC3-2412SF-E
	36 ~ 76	3.3	.800	2.5	445-3275-ND	11.10	10.70	CC3-4803SF-E
	36 ~ 76	5	.600	3.0	445-3276-ND	11.10	10.70	CC3-4805SF-E
	36 ~ 76	12 ~ 15	.200	3.0	445-3277-ND	11.10	10.70	CC3-4812SF-E
2B	4.5 ~ 9	3.3	.800	3.0	445-2463-ND	11.10	10.70	CC3-0503SR-E
	4.5 ~ 9	5	.600	3.0	445-3278-ND	11.10	10.70	CC3-0505SR-E
	4.5 ~ 9	12 ~ 15	.250	3.0	445-2467-ND	11.10	10.70	CC3-0512SR-E
	9 ~ 18	3.3	.800	3.0	445-2469-ND	11.10	10.70	CC3-1203SR-E
	9 ~ 18	5	.600	3.0	445-2471-ND	11.10	10.70	CC3-1205SR-E
	9 ~ 18	12 ~ 15	.200	3.0	445-3279-ND	11.10	10.70	CC3-1212SR-E
	18 ~ 36	3.3	.800	2.5	445-3280-ND	11.10	10.70	CC3-2403SR-E
	18 ~ 36	5	.600	3.0	445-3281-ND	11.10	10.70	CC3-2405SR-E
	18 ~ 36	12 ~ 15	.200	3.0	445-3282-ND	11.10	10.70	CC3-2412SR-E
2B	36 ~ 76	3.3	.800	2.5	445-3283-ND	11.10	10.70	CC3-4803SR-E
	36 ~ 76	5	.600	3.0	445-3284-ND	11.10	10.70	CC3-4805SR-E
	36 ~ 76	12 ~ 15	.200	3.0	445-3285-ND	11.10	10.70	CC3-4812SR-E
CC3 Series — Dual Output								
2A	4.5 ~ 9	±12 ~ 15	.125	3.0	445-2465-ND	11.10	10.70	CC3-0512DF-E
	9 ~ 18	±12 ~ 15	.125	3.0	445-2472-ND	11.10	10.70	CC3-1212DF-E
	18 ~ 36	±12 ~ 15	.125	3.0	445-2476-ND	11.10	10.70	CC3-2412DF-E
	36 ~ 76	±12 ~ 15	.100	3.0	445-3317-ND	11.10	10.70	CC3-4812DF-E
2B	4.5 ~ 9	±12 ~ 15	.100	3.0	445-3318-ND	11.10	10.70	CC3-0512DR-E
	9 ~ 18	±12 ~ 15	.100	3.0	445-3319-ND	11.10	10.70	CC3-1212DR-E
	18 ~ 36	±12 ~ 15	.100	3.0	445-3320-ND	11.10	10.70	CC3-2412DR-E
	36 ~ 76	±12 ~ 15	.100	3.0	445-3321-ND	11.10	10.70	CC3-4812DR-E
CC6 Series — Single Output								
3A	4.5 ~ 9	3.3	1.2	6.0	445-2478-ND	15.80	15.10	CC6-0503SF-E
	4.5 ~ 9	5	1.0	6.0	445-2480-ND	15.80	15.10	CC6-0505SF-E
	4.5 ~ 9	12 ~ 15	.500	6.0	445-2482-ND	15.80	15.10	CC6-0512SF-E
	9 ~ 18	3.3	1.2	6.0	445-2484-ND	15.80	15.10	CC6-1203SF-E
	9 ~ 18	5	1.2	6.0	445-2486-ND	15.80	15.10	CC6-1205SF-E
	9 ~ 18	12 ~ 15	.500	6.0	445-2489-ND	15.80	15.10	CC6-1212SF-E
	18 ~ 36	3.3	1.2	6.0	445-2490-ND	15.80	15.10	CC6-2403SF-E
	18 ~ 36	5	1.2	6.0	445-2491-ND	15.80	15.10	CC6-2405SF-E
	18 ~ 36	12 ~ 15	.500	6.0	445-2493-ND	15.80	15.10	CC6-2412SF-E
	36 ~ 76	3.3	1.2	5.0	445-3286-ND	15.80	15.10	CC6-4803SF-E
	36 ~ 76	5	1.2	6.0	445-3287-ND	15.80	15.10	CC6-4805SF-E
	36 ~ 76	12 ~ 15	.400	6.0	445-3288-ND	15.80	15.10	CC6-4812SF-E
3B	4.5 ~ 9	3.3	1.2	6.0	445-2479-ND	15.80	15.10	CC6-0503SR-E
	4.5 ~ 9	5	1.0	5.0	445-3289-ND	15.80	15.10	CC6-0505SR-E
	4.5 ~ 9	12 ~ 15	.500	6.0	445-2483-ND	15.80	15.10	CC6-0512SR-E
	9 ~ 18	3.3	1.2	6.0	445-2485-ND	15.80	15.10	CC6-1203SR-E
	9 ~ 18	5	1.2	6.0	445-2487-ND	15.80	15.10	CC6-1205SR-E
	9 ~ 18	12 ~ 15	.400	6.0	445-3290-ND	15.80	15.10	CC6-1212SR-E
	18 ~ 36	3.3	1.2	5.0	445-3291-ND	15.80	15.10	CC6-2403SR-E
	18 ~ 36	5	1.2	6.0	445-3292-ND	15.80	15.10	CC6-2405SR-E
	18 ~ 36	12 ~ 15	.400	6.0	445-3293-ND	15.80	15.10	CC6-2412SR-E
	36 ~ 76	3.3	1.2	5.0	445-3294-ND	15.80	15.10	CC6-4803SR-E
	36 ~ 76	5	1.2	6.0	445-3295-ND	15.80	15.10	CC6-4805SR-E
	36 ~ 76	12 ~ 15	.400	6.0	445-3296-ND	15.80	15.10	CC6-4812SR-E
CC6 Series — Dual Output								
3A	4.5 ~ 9	±12 ~ 15	.250	6.0	445-2481-ND	15.80	15.10	CC6-0512DF-E
	9 ~ 18	±12 ~ 15	.250	6.0	445-2488-ND	15.80	15.10	CC6-1212DF-E
	18 ~ 36	±12 ~ 15	.250	6.0	445-2492-ND	15.80	15.10	CC6-2412DF-E
	36 ~ 76	±12 ~ 15	.200	6.0	445-3322-ND	15.80	15.10	CC6-4812DF-E
3B	4.5 ~ 9	±12 ~ 15	.200	6.0	445-3323-ND	15.80	15.10	CC6-0512DR-E
	9 ~ 18	±12 ~ 15	.200	6.0	445-3324-ND	15.80	15.10	CC6-1212DR-E
	18 ~ 36	±12 ~ 15	.200	6.0	445-3325-ND	15.80	15.10	CC6-2412DR-E
	36 ~ 76	±12 ~ 15	.200	6.0	445-3326-ND	15.80	15.10	CC6-4812DR-E
CC10 Series — Single Output								
4A	4.5 ~ 9	3.3	2.5	10	445-2430-ND	26.00	25.20	CC10-0503SF-E
	4.5 ~ 9	5	2.0	10	445-2431-ND	26.00	25.20	CC10-0505SF-E
	4.5 ~ 9	12 ~ 15	.800	10	445-2433-ND	26.00	25.20	CC10-0512SF-E
	9 ~ 18	3.3	2.5	10	445-2434-ND	26.00	25.20	CC10-1203SF-E
	9 ~ 18	5	2.0	10	445-2435-ND	26.00	25.20	CC10-1205SF-E
	9 ~ 18	12 ~ 15	1.0	10	445-2437-ND	26.00	25.20	CC10-1212SF-E

† Positive Logic ‡ 100/200VAC

(Continued)

Dimensions in mm

Fig. 4 — CC10 Series

A – DIP Type

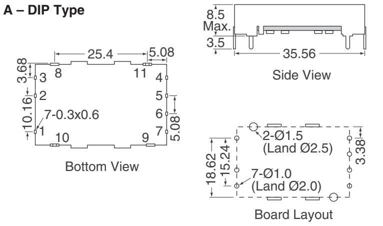

CC10 Series	
Dual Output	
Pin	Function
1	+Vin
2	RC
3	-Vin
4	-Vout
5	Common Out
6	TRM
7	+Vout

CC10 Series	
Single Output	
Pin	Function
1	+Vin
2	RC
3	-Vin
4	NC
5	-Vout
6	TRM
7	+Vout

B – SMD Type

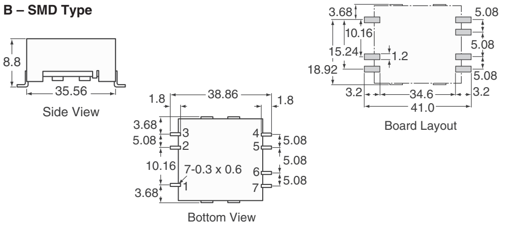

CC10 Series	
Termination Pin	
Configuration	
1	+Vin
2	RC
3	-Vin
4	NC
5	-Vout
6	TRM
7	+Vout

Fig. 5 — CC15 Series

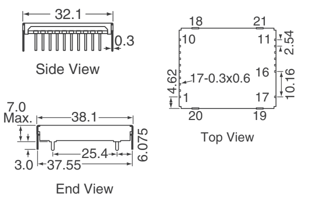

CC15 - Series			
Pin	Function	Pin	Function
1	NC	10	NC
2	NC	11	NC
3	RC	12	+Vout
4	NC	13	+Vout
5	NC	14	+Vout
6	+Vin	15	-Vout
7	+Vin	16	-Vout
8	-Vin	17	NC
9	-Vin		

Fig. 6 — CC25 Series

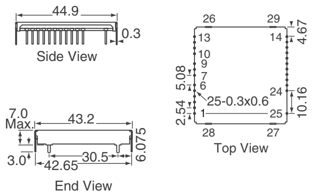

CC25 - Series					
Pin	Function	Pin	Function	Pin	Function
1	NC	10	+Vin	19	-Vout
2	NC	11	+Vin	20	-Vout
3	NC	12	+Vin	21	-Vout
4	RC	13	NC	22	-Vout
5	NC	14	NC	23	-Vout
6	NC	15	+Vout	24	-Vout
7	-Vin	16	+Vout	25	NC
8	-Vin	17	+Vout		
9	-Vin	18	+Vout		

Fig. 7 — PXD Series

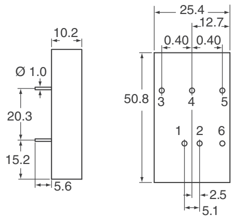

PXD10 Series		
	Single	Dual
Pin	Function	
1	+Vin	
2	-Vin	
3	+Vout	
4	No Pin	Com
5	-Vout	
6	Remote On/Off§	

PXD20 Series		
	Single	Dual
Pin	Function	
1	+Vin	
2	-Vin	
3	+Vout	
4	Trim	Com
5	-Vout	
6	Remote On/Off	

§ Optional. If not requested, pin is not fitted.

Fig. 8 — PXE Series

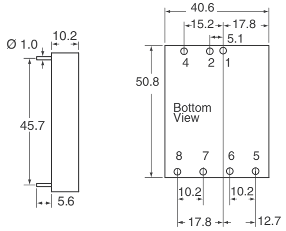

PXE Series	
Single Output	
Pin	Function
1	+Input
2	-Input
4	Remote on/off
5	No Pin
6	+Output
7	-Output
8	Trim

PXE Series	
Dual Output	
Pin	Function
1	+Input
2	-Input
4	Remote on/off
5	+Output
6	Common
7	-Output
8	Trim

Fig.	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	Lambda Part No.
4A	18 ~ 36	3.3	2.5	10	445-2438-ND	26.00	25.20	CC10-2403SF-E
	18 ~ 36	5	2.0	10	445-2439-ND	26.00	25.20	CC10-2405SF-E
	18 ~ 36	12 ~ 15	1.0	10	445-2441-ND	26.00	25.20	CC10-2412SF-E
	36 ~ 76	3.3	2.5	10	445-3297-ND	26.00	25.20	CC10-4803SF-E
	36 ~ 76	5	2.0	10	445-3298-ND	26.00	25.20	CC10-4805SF-E
	36 ~ 76	12 ~ 15	.800	10	445-3299-ND	26.00	25.20	CC10-4812SF-E
4B	4.5 ~ 9	3.3	2.5	6.6	445-3300-ND	26.00	25.20	CC10-0503SR-E
	4.5 ~ 9	5	2.0	10	445-3301-ND	26.00	25.20	CC10-0505SR-E
	4.5 ~ 9	12 ~ 15	.640	10	445-3302-ND	26.00	25.20	CC10-0512SR-E
	9 ~ 18	3.3	2.5	6.6	445-3303-ND	26.00	25.20	CC10-1203SR-E
	9 ~ 18	5	2.0	10	445-3304-ND	26.00	25.20	CC10-1205SR-E
	9 ~ 18	12 ~ 15	.800	10	445-3305-ND	26.00	25.20	CC10-1212SR-E
	18 ~ 36	3.3	2.5	10	445-3306-ND	26.00	25.20	CC10-2403SR-E
	18 ~ 36	5	2.0	10	445-3307-ND	26.00	25.20	CC10-2405SR-E
	18 ~ 36	12 ~ 15	.800	10	445-3308-ND	26.00	25.20	CC10-2412SR-E
	36 ~ 76	3.3	2.5	10	445-3309-ND	26.00	25.20	CC10-4803SR-E
	36 ~ 76	5	2.0	10	445-3310-ND	26.00	25.20	CC10-4805SR-E
	36 ~ 76	12 ~ 15	.800	10	445-3311-ND	26.00	25.20	CC10-4812SR-E
CC10 Series — Dual Output								
4A	4.5 ~ 9	±12 ~ 15	.400	10	445-2432-ND	26.00	25.20	CC10-0512DF-E
	9 ~ 18	±12 ~ 15	.450	10	445-2436-ND	26.00	25.20	CC10-1212DF-E
	18 ~ 36	±12 ~ 15	.450	10	445-2440-ND	26.00	25.20	CC10-2412DF-E
	36 ~ 76	±12 ~15	.360	10	445-3327-ND	26.00	25.20	CC10-4812DF-E
4B	4.5 ~ 9	±12 ~ 15	.320	8.5	445-3328-ND	26.00	25.20	CC10-0512DR-E
	9 ~ 18	±12 ~ 15	.360	10	445-3329-ND	26.00	25.20	CC10-1212DR-E
	18 ~ 36	±12 ~ 15	.360	10	445-3330-ND	26.00	25.20	CC10-2412DR-E
	36 ~ 76	±12 ~ 15	.360	10	445-3331-ND	26.00	25.20	CC10-4812DR-E
CC15 Series								
5	18 ~ 36	3.3	4.5	15	445-2442-ND	35.50	34.00	CC15-2403SF-E
	1 8 ~ 36	5	3.0	15	445-2443-ND	35.50	34.00	CC15-2405SF-E
CC25 Series								
6	18 ~ 36	3.3	7.5	25	445-2460-ND	51.00	49.50	CC25-2403SF-E
	18 ~ 36	5	5.0	25	445-2461-ND	51.00	49.50	CC25-2405SF-E
PXD Series — Single Output								
7	9 ~ 18	5	4.0	20	285-1511-ND	64.00	61.00	PXD2012S05
	9 ~ 18	12	1.67	20	285-1512-ND	64.00	61.00	PXD2012S12
	9 ~ 18	15	1.33	20	285-1513-ND	64.00	61.00	PXD2012S15
	9 ~ 36	5	2.0	10	285-1499-ND	55.00	52.00	PXD1024WS05
	9 ~ 36	5	2.0	10	285-1500-ND†	57.00	54.00	PXD1024WS05-P
	9 ~ 36	12	0.83	10	285-1501-ND	55.00	52.00	PXD1024WS12
	9 ~ 36	15	0.67	10	285-1502-ND	55.00	52.00	PXD1024WS15
	18 ~ 36	5	4.0	20	285-1516-ND	64.00	61.00	PXD2024S05
	18 ~ 36	12	1.67	20	285-1517-ND	64.00	61.00	PXD2024S12
	18 ~ 36	15	1.33	20	285-1518-ND	64.00	61.00	PXD2024S15
	18 ~ 75	5	2.0	10	285-1506-ND	55.00	52.00	PXD1048WS05
	18 ~ 75	12	0.83	10	285-1507-ND	55.00	52.00	PXD1048WS12
	18 ~ 75	15	0.67	10	285-1508-ND	55.00	52.00	PXD1048WS15
	36 ~ 75	3.3	2.0	6.6	285-1503-ND	52.00	50.00	PXD1048S3P3
	36 ~ 75	5	4.0	20	285-1521-ND	64.00	61.00	PXD2048S05
	36 ~ 75	12	1.67	20	285-1522-ND	64.00	61.00	PXD2048S12
	36 ~ 75	15	1.33	20	285-1523-ND	64.00	61.00	PXD2048S15

Fig.	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	Lambda Part No.
PXD Series — Dual Output								
7	9 ~ 18	±12	±0.833	20	285-1509-ND	68.00	65.00	PXD2012D12
	9 ~ 18	±15	±0.667	20	285-1510-ND	68.00	65.00	PXD2012D15
	9 ~ 36	±12	±0.416	10	285-1497-ND	58.00	55.00	PXD1024WD12
	9 ~ 36	±15	±0.333	10	285-1498-ND	58.00	55.00	PXD1024WD15
	18 ~ 36	±12	±0.833	20	285-1514-ND	68.00	65.00	PXD2024D12
	18 ~ 36	±15	±0.667	20	285-1515-ND	68.00	65.00	PXD2024D15
	18 ~ 75	±12	±0.416	10	285-1504-ND	58.00	55.00	PXD1048WD12
	18 ~ 75	±15	±0.333	10	285-1505-ND	58.00	55.00	PXD1048WD15
	36 ~ 75	±12	±0.833	20	285-1519-ND	68.00	65.00	PXD2048D12
	36 ~ 75	±15	±0.667	20	285-1520-ND	68.00	65.00	PXD2048D15
PXE Series — Single Output								
8	9 ~ 18	3.3	6.0	18	285-1541-ND	85.00	80.00	PXE3012S3P3
	9 ~ 18	5	6.0	30	285-1538-ND	85.00	80.00	PXE3012S05
	9 ~ 18	12	2.5	30	285-1539-ND	85.00	80.00	PXE3012S12
	9 ~ 18	15	2.0	30	285-1540-ND	85.00	80.00	PXE3012S15
	9 ~ 36	5	4.0	20	285-1527-ND	67.00	63.00	PXE2024WS05
	9 ~ 36	12	1.67	20	285-1528-ND	67.00	63.00	PXE2024WS12
	9 ~ 36	15	1.33	20	285-1529-ND	67.00	63.00	PXE2024WS15
	10 ~ 40	12	2.5	30	285-1547-ND	97.00	93.00	PXE3024WS12
	18 ~ 36	5	6.0	30	285-1544-ND	85.00	80.00	PXE3024S05
	18 ~ 36	12	2.5	30	285-1545-ND	85.00	80.00	PXE3024S12
	18 ~ 36	15	2.0	30	285-1546-ND	85.00	80.00	PXE3024S15
	18 ~ 75	5	4.0	20	285-1533-ND	67.00	63.00	PXE2048WS05
	18 ~ 75	12	1.67	20	285-1534-ND	67.00	63.00	PXE2048WS12
	18 ~ 75	15	1.33	20	285-1535-ND	67.00	63.00	PXE2048WS15
	36 ~ 75	5	6.0	30	285-1550-ND	85.00	80.00	PXE3048S05
	36 ~ 75	12	2.5	30	285-1551-ND	85.00	80.00	PXE3048S12
	36 ~ 75	15	2.0	30	285-1552-ND	85.00	80.00	PXE3048S15
PXE Series — Dual Output								
8	9 ~ 18	±12	±1.25	30	285-1536-ND	93.00	88.00	PXE3012D12
	9 ~ 18	±15	±1.0	30	285-1537-ND	93.00	88.00	PXE3012D15
	9 ~ 36	±5	±2.0	20	285-1524-ND	76.00	72.00	PXE2024WD05
	9 ~ 36	±12	±0.833	20	285-1525-ND	76.00	72.00	PXE2024WD12
	9 ~ 36	±15	±0.666	20	285-1526-ND	76.00	72.00	PXE2024WD15
	18 ~ 36	±12	±1.25	30	285-1542-ND	93.00	88.00	PXE3024D12
	18 ~ 36	±15	±1.0	30	285-1543-ND	93.00	88.00	PXE3024D15
	18 ~ 75	±5	±2.0	20	285-1530-ND	76.00	72.00	PXE2048WD05
	18 ~ 75	±12	±0.833	20	285-1531-ND	76.00	72.00	PXE2048WD12
	18 ~ 75	±15	±0.666	20	285-1532-ND	76.00	72.00	PXE2048WD15
	36 ~ 75	±12	±1.25	30	285-1548-ND	93.00	88.00	PXE3048D12
	36 ~ 75	±15	±1.0	30	285-1549-ND	93.00	88.00	PXE3048D15
PXF Series — Single Output								
9	9 ~ 18	5	8	40	285-1555-ND	96.00	91.00	PXF4012S05
	9 ~ 18	12	3.333	40	285-1556-ND	96.00	91.00	PXF4012S12
	9 ~ 18	15	2.666	40	285-1557-ND	96.00	91.00	PXF4012S15
	18 ~ 36	3.3	8	40	285-1564-ND	96.00	91.00	PXF4024S3P3
	18 ~ 36	5	8	40	285-1561-ND	96.00	91.00	PXF4024S05
	18 ~ 36	12	3.333	40	285-1562-ND	96.00	91.00	PXF4024S12
	18 ~ 36	15	2.666	40	285-1563-ND	85.71	83.37	PXF4024S15

† Positive Logic ‡ 100/200VAC

(Continued)

M

Dimensions in mm

Fig. 9 — PXF Series

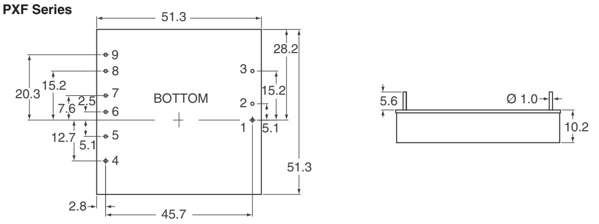

PXF Series Single Output	
Pin	**Function**
1	+Input
2	-Input
3	Remote on/off
4	No Pin
5	-SenseΔ
6	+SenseΔ
7	+Output
8	-Output
9	Trim

PXF Series Dual Output	
Pin	**Function**
1	+Input
2	-Input
3	Remote on/off
4	No Pin
5	+VO
6	Common
7	Common
8	-VO
9	Trim

PXF Series Triple Output	
Pin	**Function**
1	+Input
2	-Input
3	Remote on/off
4	+Aux
5	Common
6	-Aux
7	+Output
8	-Output (Com)
9	N/C

Δ Maximum output deviation is 10% inclusive of remote sense and trim. If remote sense is not being used, the +Sense and -Sense should be connected to their corresponding outputs; +output, -output

Fig. 10 — PAH350, PAH450 Series *NEW!*

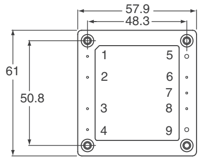

PAH350, PAH450 Series	
Pin	**Function**
1	-Vin
2	CASE
3	CNT
4	+Vin
5	-V
6	-S
7	TRM
8	+S
9	+V

Fig. 11 — PF Series

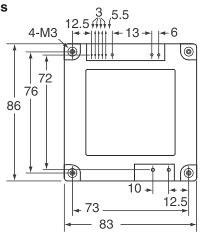

Fig. 12 — PF Series

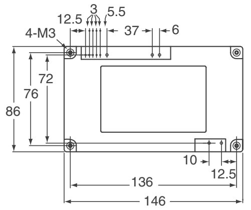

Fig. 13 — PAF500F, PAF600F, PAF-F280 Series

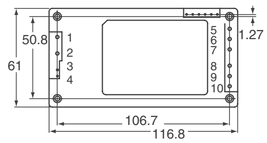

PAF500F, PAF600F Series	
Pin	**Function**
1	-Vin
2	+Vin
3	-ON/OFF
4	+ON/OFF
5	-V
6	-V
7	-V
8	+V
9	+V
10	+V

PAF-F280 Series	
Pin	**Function**
1	-Vin
2	+Vin
3	SG
4	CNT
5	-V
6	-V
7	-V
8	+V
9	+V
10	+V

Fig. 14 — iAD Series *NEW!*

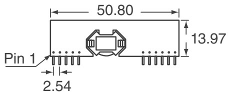

Pin spacing - 2.54 mm
00 = positive logic on/off
01 = negative logic on/off

Fig.	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	Lambda Part No.
9	36 ~ 75	5	8	40	285-1568-ND	96.00	91.00	PXF4048S05
	36 ~ 75	12	3.333	40	285-1569-ND	96.00	91.00	PXF4048S12
	36 ~ 75	15	2.666	40	285-1570-ND	96.00	91.00	PXF4048S15
PXF Series — Dual Output								
9	9 ~ 18	±12	±1.8	40	285-1553-ND	96.00	91.00	PXF4012D12
	9 ~ 18	±15	±1.4	40	285-1554-ND	96.00	91.00	PXF4012D15
	18 ~ 36	±12	±1.8	40	285-1559-ND	96.00	91.00	PXF4024D12
	18 ~ 36	±15	±1.4	40	285-1560-ND	96.00	91.00	PXF4024D15
	36 ~ 75	±12	±1.8	40	285-1566-ND	96.00	91.00	PXF4048D12
	36 ~ 75	±15	±1.4	40	285-1567-ND	96.00	91.00	PXF4048D15
PXF Series — Triple Output								
9	9 ~ 18	5, ±12	6, ±0.4	40	285-1558-ND	116.00	110.00	PXF4012T0512
	18 ~ 36	5, ±12	6, ±0.4	40	285-1565-ND	116.00	110.00	PXF4024T0512
	36 ~ 75	5, ±12	6, ±0.4	40	285-1571-ND	116.00	110.00	PXF4048T0512
PAH350 Series								
10	18 ~ 36	28	12.5	350	285-1487-ND	134.00	125.00	PAH350S2428
	36 ~ 76	12	29.2	350	285-1488-ND	134.00	125.00	PAH350S4812
	36 ~ 76	28	12.5	350	285-1489-ND	134.00	125.00	PAH350S4828

Fig.	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	Price Each 10	Lambda Part No.
NEW! PAH450 Series NEW!								
10	36 ~ 76	28	16	448	285-1784-ND	168.30	148.50	PAH450S4828
	36 ~ 76	48	9.4	451	285-1785-ND	168.30	148.50	PAH450S4848
PF Series								
11	85 ~ 265VAC	360	—	504/756‡	285-1492-ND	154.10	140.10	PF500A-360
12	85 ~ 265VAC	360	—	1008/1512‡	285-1491-ND	216.80	195.40	PF1000A-360
PAF500F Series								
13	18 ~ 36	28	18	504	285-1481-ND	240.00	225.01	PAF500F24-28
PAF600F Series								
13	19 ~ 36	28	21.5	602	285-1482-ND	270.00	250.00	PAF600F24-28
PAF-F280 Series								
13	200 ~ 400	12	50	600	285-1483-ND	215.00	200.00	PAF600F280-12/T
	200 ~ 400	24	25	600	285-1484-ND	215.00	200.00	PAF600F280-24/T
	200 ~ 400	28	21.5	602	285-1485-ND	215.00	200.00	PAF600F280-28/T
	200 ~ 400	48	12.5	600	285-1486-ND	215.00	200.00	PAF600F280-48/T
NEW! iAD Series — Adjustable Output NEW!								
14	6 ~ 14	0.8 ~ 5.5	16	80	285-1786-ND†	16.85	15.09	IAD12016A008V000R
	6 ~ 14	0.8 ~ 5.5	16	80	285-1787-ND	16.85	15.09	IAD12016A008V001R

† Positive Logic ‡ 100/200VAC

EMI Filters

Features: MAW Series: • Shielded metal case • Attenuates high voltage pulses **MA Series:** • Easy connection and installation • Captive screws accepting ring tag terminals • Chassis or DIN rail mount • Low frequency attenuation (single stage) **MC Series:** • Low leakage current versions • Chassis or DIN rail mount • High pulse or noise attenuation versions • Easy connection and installation **MB Series:** • High attenuation wide band two stage filter • Screw terminals with cover • Low profile, metal case **PAN Series:** • Compact size • PCB mount • Suitable for use with Lambda's PAF Series MBS48 Series: • High attenuation • Stud terminal connection • Compact size
Note: *For safety and EMI certifications please see series data sheets*

Fig. 1 — MAW Series

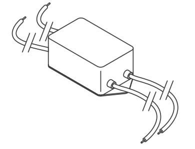

Fig. 2 — MA Series

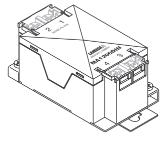

Fig. 3 — MC Series

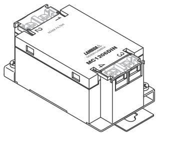

Fig. 4 — MB Series

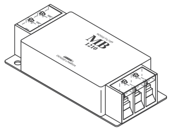

Fig. 5 — PAN Series

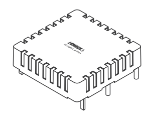

Fig. 6 — MBS48 Series

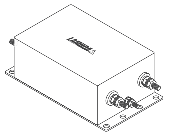

Fig.	Series	Rated Voltage	Rated Current (A)	Digi-Key Part No.	Price Each 1	Price Each 10	Lambda Part No.
1	MAW	250VAC/VDC	0.5	285-1464-ND	10.50	10.25	MAW12R522
			1.0	285-1460-ND	11.50	11.25	MAW120122
			2.0	285-1461-ND	11.75	11.50	MAW120222
			3.0	285-1462-ND	13.50	13.25	MAW120322
			5.0	285-1463-ND	14.00	13.75	MAW120522
2	MA	250VAC/VDC	6	285-1457-ND	27.00	26.25	MA1206DIN
			10	285-1458-ND	28.25	27.50	MA1210DIN
			16	285-1459-ND	29.50	28.75	MA1216DIN
3	MC	250VAC	6	285-1471-ND	35.00	34.00	MC1206DIN
			10	285-1472-ND	38.00	37.00	MC1210DIN

Fig.	Series	Rated Voltage	Rated Current (A)	Digi-Key Part No.	Price Each 1	Price Each 10	Lambda Part No.
3	MC	250VAC	20	285-1473-ND	47.00	46.00	MC1220DIN
			30	285-1474-ND	55.00	53.00	MC1230DIN
4	MB	250VAC/VDC	6	285-1740-ND	35.00	34.50	MB1206
			10	285-1465-ND	47.00	46.00	MB1210
			16	285-1466-ND	54.00	53.00	MB1216
			20	285-1467-ND	61.00	60.00	MB1220
			36	285-1468-ND	92.00	90.00	MB1236
5	PAN	76VDC	20	285-1490-ND	33.00	32.00	PAN4820
6	MBS48	48VDC	30	285-1469-ND	71.00	69.00	MBS4830
			50	285-1470-ND	113.60	110.40	MBS4850

Dimensions in mm

Fig. 1 ***NEW!***

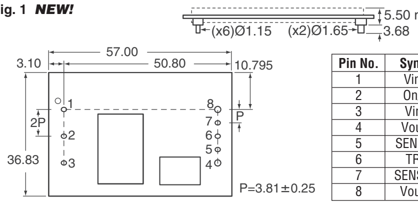

Pin No.	Symbol	Function
1	Vin(+)	(+)Positive Input Voltage
2	On/Off	Remote On/Off
3	Vin(-)	(-)Negative Input Voltage
4	Vout(-)	(-)Negative Output Voltage
5	SENSE(-)	(-)Negative Remote Sense
6	TRIM	Output Voltage Trim
7	SENSE(+)	(+)Positive Remote Sense
8	Vout(+)	(+)Positive Output Voltage

MPDKN00xS Series Non-Isolated Quarter Brick of Industry Standard Features: • High efficiency and high power density is realized by using original synchronous rectifier circuit • Wide input voltage range • Output voltage adjustment is possible by connection of external resistance • Built in over current, over voltage and overheating protection • UL60950 is recognized **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 2 ***NEW!***

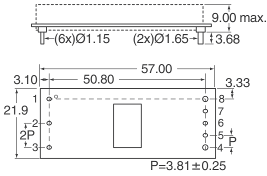

Pin No.	Symbol	Function
1	Vin(+)	(+)Positive Input Voltage
2	ON/OFF	Remote ON/OFF
3	Vin(-)	(-)Negative Input Voltage
4	Vout(-)	(-)Negative Output Voltage
5	SENSE(-)	(-)Negative Remote Sense
6	TRIM	Output Voltage Adjustment
7	SENSE(+)	(+)Positive Remote Sense
8	Vout(+)	(+)Positive Output Voltage

MPDKN1xxS Series Isolated Eighth Brick of Industry Standard Features: • High efficiency and high power density is realized by using original synchronous rectifier circuit • Wide input voltage range • Output voltage adjustment is possible by connection of external resistance • Built in over current, over voltage and overheating protection • UL60950 is recognized **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 3A

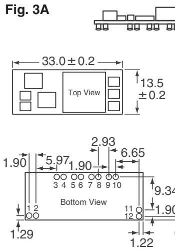

Pin No.	Signal
1,2	Vin
3,4	GND
5,6	Vout
7,8	TRIM
9,10	SENSE
11,12	ON/OFF

Fig. 3B

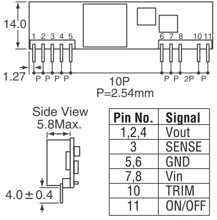

Pin No.	Signal
1,2,4	Vout
3	SENSE
5,6	GND
7,8	Vin
10	TRIM
11	ON/OFF

MPDRX Series Ultra High-Speed Response Non-Isolated POL Features: • Fast load transient response • Wide adjustable output voltage • On/Off control function • Short circuit protection • Over temperature protection • Under voltage lockout **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 4A ***NEW!***

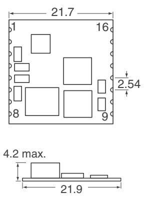

Pin No.	Symbol	Function
1	SENSE	Output Voltage Sense
2,3	Vout	Output
4,5,11,12	GND	GND
8	FT	Output Trim
7	VAR	Vout Adjustment
9,10	Vin	Input
6	SS	Soft Start
14	N.C.	No Connection
15	POW-GOOD1	Power Good
16	POW-GOOD2	Power Good
13	RC	Remote ON/OFF

Fig. 4B ***NEW!***

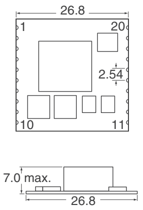

Pin No.	Symbol	Function
1	SENSE	Output Voltage Sense
2,3,4	Vout	Output
5,6,7,8 13,14,15	GND	GND
9	FT	Output Trim
10	VAR	Vout Adjustment
11,12	Vin	Input
17	SS	Soft Start
18	N.C.	No Connection
19	POW-GOOD1	Power Good
20	POW-GOOD2	Power Good
16	RC	Remote ON/OFF

MPDRX30xS Series Ultra High Speed, Low profile, Non-Isolated POL Features: • Wide Input and Output Voltage • Very high speed response • Short circuit protection available • On/Off control function available • Two power good signal output terminals • Variable start-up speed (by external capacitor) **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 5 ***NEW!***

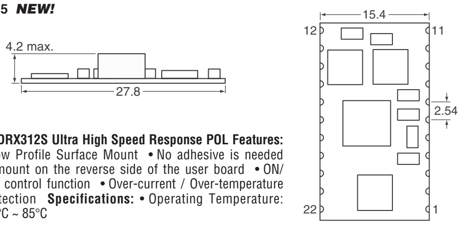

MPDRX312S Ultra High Speed Response POL Features: • Low Profile Surface Mount • No adhesive is needed to mount on the reverse side of the user board • ON/OFF control function • Over-current / Over-temperature protection **Specifications:** • Operating Temperature: -40°C ~ 85°C

Pin No.	Symbol	Function
2	SENSE	Output Voltage Sense
3,4,5	Vout	Output
6,7,8,9, 16,17,18	GND	GND
10	FT	Output Trim
11	VAR	Output Voltage Adjustment
12,13,14,15	Vin	Input
1	OVPOUT	Output Over-Voltage Alarm
19	SS	Soft Start
20	N.C.	No Connection
21	PWRGOOD	Power Good
22	ON/OFF	Remote ON/OFF

Fig. 6A

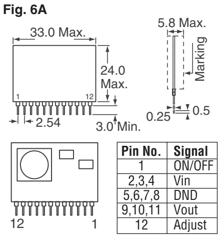

Pin No.	Signal
1	ON/OFF
2,3,4	Vin
5,6,7,8	DND
9,10,11	Vout
12	Adjust

Fig. 6B

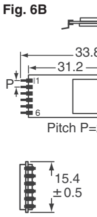

Pin No.	Signal
1	ON/OFF
2,3,4	Vin
5,6,7,8	GND
9,10,11	Vout
12	Adjust

MPDTY Series Non-Isolated 6A POL Features: • High efficiency • On/Off control function • Trim function • Short circuit protection • Over temperature protection • Under voltage lockout **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 7

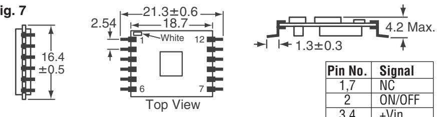

MPDTY102S SMD Non-Isolated 2A POL Features: • No Derating • Ultra-low profile • High efficiency • On/Off control function • Wide adjustable output voltage • Short circuit protection **Specifications:** • Operating Temperature: -40°C ~ 85°C

Pin No.	Signal
1,7	NC
2	ON/OFF
3,4	+Vin
5,6,8	GND
9,10	Vout
11	Vref
12	Adjust

Fig. 8 ***NEW!***

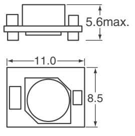

Pin No.	Symbol	Function
1	Reserved	N.C. Leave this pin open
2	Vout	Output
3	GND	GND
4	+SENSE	Vout Sense Input
5	GND	GND
6	ON/OFF	Remote ON/OFF
7	Vin	Input
8	TRIM	Vout Adjust Control

MPDTY201S Industry Standard Low Voltage / High Current Non-Isolated Features: • High efficiency and high power density • Output voltage adjustable via external resistors • Built in ON/OFF function • Built in short circuit and overheating protection **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 9 ***NEW!***

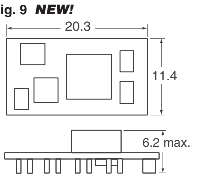

Pin No.	Symbol	Function
1,2	Vin	Input Voltage
3,4	GND	GND
5,6	TRIM	Output Voltage Adjustment
7,8	Vout	Output Voltage
9,10	ON/OFF	Remote ON/OFF

MPDTY41xS Low Voltage / High Current Non-Isolated Features: • Low profile: 6.2mm maximum • Output voltage is adjustable by using single external resistance • Built in ON/OFF function • Built in short circuit and over temperature protection **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig.	V out	I out (A)	V in Range	Digi-Key Part No.	Price Each				Murata Part No.
					1	10	25	100	
1	3.3	15	36 ~ 75	490-4998-ND ***NEW!***	44.43	43.32	42.21	36.66	MPDKN007S
	5.0	10	36 ~ 75	490-4999-ND ***NEW!***	44.43	43.32	42.21	36.66	MPDKN008S
2	3.3	20	36 ~ 75	490-5000-ND ***NEW!***	52.46	51.15	49.84	43.28	MPDKN117S
	5.0	13	36 ~ 75	490-5001-ND ***NEW!***	52.46	51.15	49.84	43.28	MPDKN118S
3A	0.8 ~ 1.8	16	3 ~ 5.5	490-4541-ND	24.06	23.46	22.86	19.85	MPDRX002S
	0.8 ~ 1.8	12	7 ~ 14	490-4542-ND	24.06	23.46	22.86	19.85	MPDRX004S
3B	0.8 ~ 1.8	16	10.8 ~ 13.2	490-4543-ND	24.06	23.46	22.86	19.85	MPDRX103S
	1.5 ~ 3.3	12	10.8 ~ 13.2	490-4544-ND	24.06	23.46	22.86	19.85	MPDRX104S
4A	1.6 ~ 3.63	13	5.6 ~ 14	490-5003-ND ***NEW!***	19.54	19.05	18.56	16.12	MPDRX301S
	0.8 ~ 1.65	13	5.6 ~ 14	490-5004-ND ***NEW!***	19.54	19.05	18.56	16.12	MPDRX302S
4B	1.6 ~ 3.63	26	5.6 ~ 14	490-5005-ND ***NEW!***	30.19	29.44	28.69	24.91	MPDRX303S
	0.8 ~ 1.65	26	5.6 ~ 14	490-5006-ND ***NEW!***	30.19	29.44	28.69	24.91	MPDRX304S
5	0.8 ~ 1.8	16	3.0 ~ 5.5	490-5015-ND ***NEW!***	19.54	19.05	18.56	16.12	MPDRX312S
6A	1.0	6	2.97 ~ 3.63	490-4545-ND	16.40	15.99	15.58	13.53	MPDTY011S
	1.0	6	4.5 ~ 5.5	490-4551-ND	16.40	15.99	15.58	13.53	MPDTY021S
	1.2	6	2.97 ~ 3.63	490-4546-ND	16.40	15.99	15.58	13.53	MPDTY012S
	1.2	6	4.5 ~ 5.5	490-4552-ND	16.40	15.99	15.58	13.53	MPDTY022S
	1.5	6	2.97 ~ 3.63	490-4547-ND	16.40	15.99	15.58	13.53	MPDTY013S
	1.5	6	4.5 ~ 5.5	490-4553-ND	16.40	15.99	15.58	13.53	MPDTY023S
	1.8	6	2.97 ~ 3.63	490-4548-ND	16.40	15.99	15.58	13.53	MPDTY014S
	1.8	6	4.5 ~ 5.5	490-4554-ND	16.40	15.99	15.58	13.53	MPDTY024S
	2.0	6	2.97 ~ 3.63	490-4549-ND	16.40	15.99	15.58	13.53	MPDTY015S
	2.0	6	4.5 ~ 5.5	490-4555-ND	16.40	15.99	15.58	13.53	MPDTY025S
	2.5	6	2.97 ~ 3.63	490-4550-ND	16.40	15.99	15.58	13.53	MPDTY016S
	2.5	6	4.5 ~ 5.5	490-4556-ND	16.40	15.99	15.58	13.53	MPDTY026S
	3.3	6	4.5 ~ 5.5	490-4557-ND	16.40	15.99	15.58	13.53	MPDTY027S
6B	1.0	6	2.97 ~ 3.63	490-4558-ND	16.40	15.99	15.58	13.53	MPDTY111S
	1.0	6	4.5 ~ 5.5	490-4564-ND	16.40	15.99	15.58	13.53	MPDTY121S
	1.2	6	2.97 ~ 3.63	490-4559-ND	16.40	15.99	15.58	13.53	MPDTY112S
	1.2	6	4.5 ~ 5.5	490-4565-ND	16.40	15.99	15.58	13.53	MPDTY122S
	1.5	6	2.97 ~ 3.63	490-4560-ND	16.40	15.99	15.58	13.53	MPDTY113S
	1.5	6	4.5 ~ 5.5	490-4566-ND	16.40	15.99	15.58	13.53	MPDTY123S
	1.8	6	2.97 ~ 3.63	490-4561-ND	16.40	15.99	15.58	13.53	MPDTY114S
	1.8	6	4.5 ~ 5.5	490-4567-ND	16.40	15.99	15.58	13.53	MPDTY124S
	2.0	6	2.97 ~ 3.63	490-4562-ND	16.40	15.99	15.58	13.53	MPDTY115S
	2.0	6	4.5 ~ 5.5	490-4568-ND	16.40	15.99	15.58	13.53	MPDTY125S
	2.5	6	2.97 ~ 3.63	490-4563-ND	16.40	15.99	15.58	13.53	MPDTY116S
	2.5	6	4.5 ~ 5.5	490-4569-ND	16.40	15.99	15.58	13.53	MPDTY126S
	3.3	6	4.5 ~ 5.5	490-4570-ND	16.40	15.99	15.58	13.53	MPDTY127S
7	0.8 ~ 5.0	2	2.97 ~ 5.5	490-4571-ND	10.71	10.44	10.17	8.84	MPDTY102S
8	0.8 ~ 2.5	3	3.0 ~ 5.5	490-5011-ND ***NEW!***	5.20	5.08	4.95	4.30	MPDTY201S
9	0.8 ~ 3.6	7	4.5 ~ 5.5	490-5012-ND ***NEW!***	11.44	11.16	10.87	9.44	MPDTY411S
	0.8 ~ 2.5	7	3.0 ~ 3.6	490-5013-ND ***NEW!***	11.44	11.16	10.87	9.44	MPDTY412S

† Cut Tape ‡ Tape and Reel

(Continued)

M

DC-DC Converters *(Cont.)*

Dimensions in mm

Fig. 10 ***NEW!***

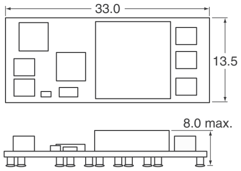

Pin No.	Signal
1,2	Vin
5,6	GND
7,8	Vout
9,10	TRIM
11,12	Sense
13,14	ON/OFF

MPDTY402S Industry Standard Foot Print / 16A Output POL Features: • Wide input and output voltage • On/Off control function • Short circuit protection • Austin Lynx pin compatible • Safety agency approvals: UL/cUL 60950, EN60950, VDE **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 11

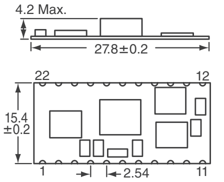

Pin No.	Symbol	Function
1,2,3,4,5	Vout	Voltage Output
6,7,8,9,10, 18,19,20,21	GND	GND
11	VAR	Output Voltage Adjustment
12	ON/OFF	Remote On/Off
13,14,15, 16,17	Vin	Voltage Input
22	N.C.	N.C.(Sense for MPDTY303S)

MPDTY3xxS Series SMD Non-Isolated POL Features: • Ultra-low profile • High efficiency up to 94% • Wide adjustable output voltage • On/Off control function • Short circuit protection • Over temperature protection • Under voltage lockout **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 12 ***NEW!***

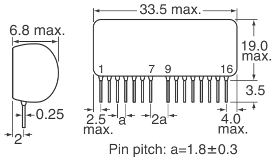

Pin No.	Signal
1,15	Vin
2,16	N.C.
3	ON/OFF2
4	VAR2
5,9,12	GND
6	Vout2(1.8V-3.6V)
7	Vout3(2.5V)
10,11	Vout1(1.0V-3.3V)
13	VAR1
14	ON/OFF1

MPD4S014S and MPD5S025S SIP Non-Isolated Features: • 3-output module suitable for powering data-processing ICs that need multiple power lines such as FPGA • Vertical SIP configuration saves PCB space • Wide adjustable output voltage range by connecting external resistance • Wide input voltage range • Built in ON/OFF function and short circuit protection function **Specifications:** • Operating Temperature: 0°C ~ 85°C

Fig. 13

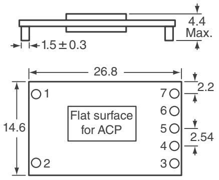

Pin No.	Symbol	Function
1	+Vout	+Output
2	-Vout	-Output
3	ALM	Alarm
4	RC	Remote On/ Off Control
5	PO	Parallel Operation
6	+Vin	+Input
7	-Vin	-Input

MPD5D Series SMD Isolated 5W Features: • No De-Rating (@ 40LFM Natural convection air flow) • Smallest and lowest profile in the industry • Current sharing (up to 10 devices in parallel operation) • Power sequencing • On/Off control function • Input-output isolation (1.5kVdc for 1 minute) • Over current protection • Low voltage protection • Over voltage protection • Alarm output **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 14

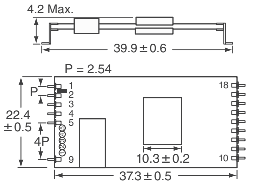

Pin No.	Symbol	Function
9,10,14	NC	Not Connected
1,2,3	+Vout	+Output
4,5	-Vout	-Output
11	ALM	Alarm
12	RC	Remote On/ Off Control
13	PO	Parallel Operation
15,16	+Vin	+Input
17,18	-Vin	-Input

MPD6D10xS Series SMD Isolated 10W Features: • No De-Rating (@ 40LFM Natural convection air flow) • Ultra low profile • Current sharing (up to 10 devices in parallel operation) • Power sequencing • On/Off control function • Input-output isolation (1.5kVdc for 1 minute) • Over current protection • Low voltage protection • Over voltage protection • Alarm output **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 15

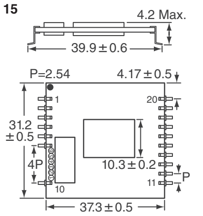

Pin No.	Symbol	Function
1,10,11, 15,20	NC	Not Connected
2,3,4	+Vout	+Output
5,6	-Vout	-Output
12	ALM	Alarm
13	RC	Remote On/ Off Control
14	PO	Parallel Operation
16,17	+Vin	+Input
18,19	-Vin	-Input

MPD6D11xS Series SMD Isolated 15W Features: • No De-Rating (@ 40LFM natural convection air flow) • Ultra-low profile • Current sharing (up to 10 devices in parallel operation) • Power sequencing • On/Off control function • Input-output isolation (1.5kVdc for 1 minute) • Over current protection • Low voltage protection • Over voltage protection • Alarm output **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 16

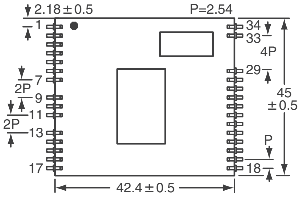

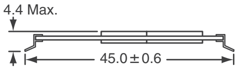

Pin No.	Symbol	Function
1,2,4,6,16,17, 18,19,33,34	NC	Not Connected
3	ALM	Alarm
5	RC	Remote On/ Off Control
7	PO	Parallel Operation
9,10,11	-Vin	-Input
13,14,15	+Vin	+Input
20,21, 22,23	+Vout	+Output
24,25,26, 27,28,29	-Vout	-Output

MPD6D12xS Series SMD Isolated 30W Features: • No De-Rating (@ 40LFM natural convection air flow) • Ultra-low profile • Current sharing (up to 10 devices in parallel operation) • Power sequencing • On/Off control function • Input-output isolation (1.5kVdc for 1 minute) • Over current protection • Low voltage protection • Over voltage protection • Alarm output **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig.	V out	I out (A)	V in Range	Digi-Key Part No.	Price Each 1	10	25	100	Murata Part No.
10	0.8 ~ 3.3	16	3.0 ~ 5.5	490-5014-ND ***NEW!***	24.06	23.46	22.86	19.85	MPDTY402S
11	0.8 ~ 2.5	7	3.0 ~ 3.6	490-4573-ND	12.08	11.78	11.48	9.97	MPDTY302S
	0.8 ~ 2.5	16	3.0 ~ 3.6	490-4576-ND	13.74	13.40	13.06	11.34	MPDTY312S
	0.8 ~ 3.3	7	4.5 ~ 5.5	490-4572-ND	12.08	11.78	11.48	9.97	MPDTY301S
	0.8 ~ 3.3	16	4.5 ~ 5.5	490-4575-1-ND†	16.40	15.99	15.58	13.53	MPDTY311S
	0.8 ~ 3.3	16	4.5 ~ 5.5	490-4575-2-ND‡	3197.70/300				MPDTY311S
	0.8 ~ 5.5	8	6.5 ~ 14.0	490-4574-1-ND†	14.43	14.15	13.72	11.91	MPDTY303S
	0.8 ~ 5.5	8	6.5 ~ 14.0	490-4574-2-ND‡	2868.60/300				MPDTY303S
12	1.0 ~ 3.6	1.3	4.5 ~ 13.2	490-4995-ND ***NEW!***	6.37	6.22	6.06	5.26	MPD4S014S
	1.0 ~ 3.6	1.6	4.5 ~ 5.5	490-4996-ND ***NEW!***	6.37	6.22	6.06	5.26	MPD5S025S
13	1.5	0.8	36 ~ 75	490-4577-ND	19.34	18.86	18.37	15.96	MPD5D013S
	1.8	1	36 ~ 75	490-4578-ND	19.34	18.86	18.37	15.96	MPD5D014S
	2.5	1.2	36 ~ 75	490-4579-ND	19.34	18.86	18.37	15.96	MPD5D016S
	3.3	1.5	36 ~ 75	490-4580-ND	19.34	18.86	18.37	15.96	MPD5D017S
	5	1	36 ~ 75	490-4581-ND	19.34	18.86	18.37	15.96	MPD5D018S
14	1.2	3.5	36 ~ 75	490-4583-ND	22.16	21.61	21.06	18.29	MPD6D102S
	1.5	3.5	36 ~ 75	490-4584-ND	22.16	21.61	21.06	18.29	MPD6D103S
	1.8	3	36 ~ 75	490-4585-ND	22.16	21.61	21.06	18.29	MPD6D104S
	2	3	36 ~ 75	490-4586-ND	22.16	21.61	21.06	18.29	MPD6D105S
	2.5	3	36 ~ 75	490-4587-ND	22.16	21.61	21.06	18.29	MPD6D106S
	3.3	3	36 ~ 75	490-4588-ND	22.16	21.61	21.06	18.29	MPD6D107S
	5	2	36 ~ 75	490-4589-ND	22.16	21.61	21.06	18.29	MPD6D108S
	5.2	2	36 ~ 75	490-4590-ND	22.16	21.61	21.06	18.29	MPD6D109S
	12	0.8	36 ~ 75	490-4582-ND	22.16	21.61	21.06	18.29	MPD6D101S
15	1.2	5.2	36 ~ 75	490-4591-ND	27.14	26.47	25.79	22.40	MPD6D112S
	1.5	5.2	36 ~ 75	490-4592-ND	27.14	26.47	25.79	22.40	MPD6D113S
	1.8	4.5	36 ~ 75	490-4593-ND	27.14	26.47	25.79	22.40	MPD6D114S
	2.5	4.5	36 ~ 75	490-4594-ND	27.14	26.47	25.79	22.40	MPD6D116S
	3.3	4.5	36 ~ 75	490-4595-ND	27.14	26.47	25.79	22.40	MPD6D117S
	5.0	3	36 ~ 75	490-4596-ND	27.14	26.47	25.79	22.40	MPD6D118S
	5.2	3	36 ~ 75	490-4597-ND	27.14	26.47	25.79	22.40	MPD6D119S
16	1.2	12	36 ~ 75	490-4598-ND	38.45	37.49	36.53	31.73	MPD6D122S
	1.5	11	36 ~ 75	490-4599-ND	38.45	37.49	36.53	31.73	MPD6D123S
	1.8	11	36 ~ 75	490-4600-ND	38.45	37.49	36.53	31.73	MPD6D124S
	2.5	10	36 ~ 75	490-4601-ND	38.45	37.49	36.53	31.73	MPD6D126S
	3.3	9	36 ~ 75	490-4602-ND	38.45	37.49	36.53	31.73	MPD6D127S
	5.0	6	36 ~ 75	490-4603-ND	38.45	37.49	36.53	31.73	MPD6D128S
17	3.3	9	18 ~ 36	490-5007-ND ***NEW!***	34.07	33.22	32.37	28.11	MPD6D207S
	5.5	6	18 ~ 36	490-5008-ND ***NEW!***	34.07	33.22	32.37	28.11	MPD6D209S
	3.3	10.6	36 ~ 75	490-5009-ND ***NEW!***	42.13	41.08	40.02	34.76	MPD7D067S
	5.0	7	36 ~ 75	490-5010-ND ***NEW!***	42.13	41.08	40.02	34.76	MPD7D068S
18	1.1 ~ 3.6	3	3.0 ~ 5.5	490-5002-ND ***NEW!***	4.85	4.74	4.62	4.01	MPD6S022S
19	1.2	16	36 ~ 75	490-4604-ND	44.53	43.42	42.31	36.74	MPD7D052S
	1.5	17	36 ~ 75	490-4605-ND	44.53	43.42	42.31	36.74	MPD7D053S
	1.8	16	36 ~ 75	490-4606-ND	44.53	43.42	42.31	36.74	MPD7D054S
	2.5	15	36 ~ 75	490-4607-ND	44.53	43.42	42.31	36.74	MPD7D056S
	3.3	15	36 ~ 75	490-4608-ND	44.53	43.42	42.31	36.74	MPD7D057S
	5.0	10	36 ~ 75	490-4609-ND	44.53	43.42	42.31	36.74	MPD7D058S

† Cut Tape ‡ Tape and Reel

Fig. 17 ***NEW!***

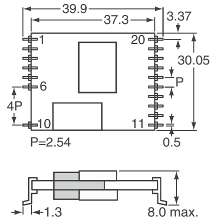

Pin No.	Symbol	Function
1,10,11, 15,20	NC	Not Connected
2,3,4	+Vout	+Output
5,6	-Vout	-Output
12	ALM	Alarm output
13	RC	Remote On/Off Control
14	PO	Parallel Operation
16,17	+Vin	+Input
18,19	-Vin	-Input

MPD6D20xS and MPD7D06xS Series Isolated Features: • Low profile and small size • Wide input voltage range • Wide operating ambient temperature range with minimum power derating • Input-output isolation voltage • UL60950 recognized, self-declare CE mark **Specifications:** • Operating Temperature: -40°C ~ 85°C

Fig. 18 ***NEW!***

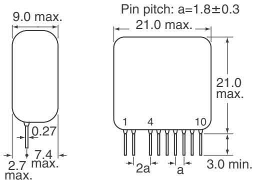

Pin No.	Signal
1	Vin
2	ON/OFF
3	No Pin
4,5	N.C.
6,7	GND
8	Adjust
9,10	VOUT

MPD6S022S Output Voltage Variable / 3A Output Features: • High efficiency (95% @ 33V/1A) • Small footprint SIP • Wide output and input voltage range • Short circuit protection • No external caps required **Specifications:** • Operating Temperature: 0°C ~ 70°C

Fig. 19

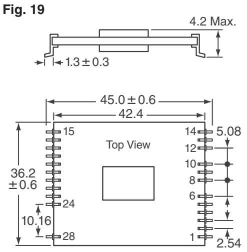

Pin No.	Symbol	Function
1,28	NC	Pins bonded with Resin on a Motherboard
2	ALM	Alarm
3,5	NC	Not Connected
4	RC	Remote On/ Off Control
6	PO	Parallel Operation
8,9,10	-Vin	-Input
12,13,14	+Vin	+Input
15,16, 17,18	+Vout	+Output
19,20,21, 22,23,24	-Vout	-Output

MPD7D05xS Series SMD Isolated 50W Features: • Ultra-low profile • Current sharing (up to 5 devices in parallel operation) • Power sequencing • On/Off control function • Input-output isolation (1.5kVdc for 1 minute) • Over current protection • Low voltage protection • Over voltage protection • Alarm output **Specifications:** • Operating Temperature: -40°C ~ 85°C

Manufacturers of the following product brands: CONDOR AULT

External Power Supplies

SL Power has an external line of power products marketed under the Ault brand. External power is increasingly popular because OEMs require smaller, more feature-rich products that can be used in a variety of environments. The Ault brand has switch-mode power supplies in wall mount and desktop styles for ITE or medical applications. Energy Star models are ideal when efficiency is a must. Power over Ethernet products carry power and data in a single unit that can support legacy or next generation systems that meet the IEEE802.3af standard. **NOTE:** Power cords are not included.

Output Connector Options

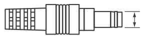

(For power supplies 5 amps or less)

Style 03 Connector
(Switchcraft
Part Number 760)

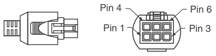

Style 51 Connector
(Molex Part Number
39-01-2060)

Fig. 1

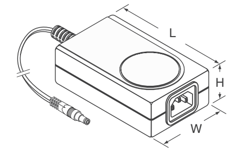

Fig. 2

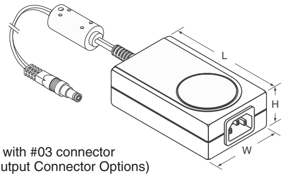

Shown with #03 connector
(See Output Connector Options)

Fig. 3

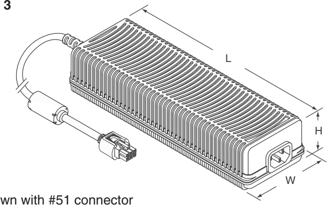

Shown with #51 connector
(See Output Connector Options)

Fig. 4

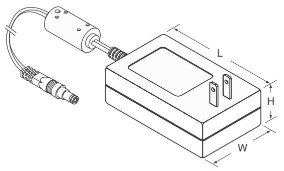

Fig. 5

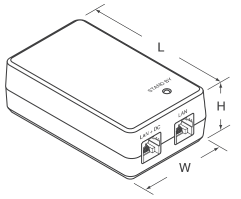

Fig. 6

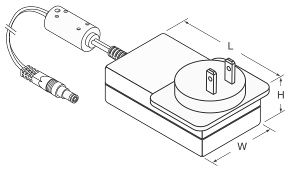

Fig. 7

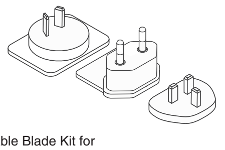

Interchangeable Blade Kit for
PW170 and MW172 Wall Plug Series (Optional)

Fig.	Output	Total Power (W)	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	10	25	Ault Part No.
			Energy Star					
1	5V @ 2A	10	3.35 x 1.81 x 1.30 (85 x 46 x 33)	271-2450-ND	13.34	11.54	10.68	PW149RA0503F01
	9V @ 1.3A	11.7		271-2452-ND	22.00	19.03	17.60	PW149RA0903F01
	24V@ 0.5A	12		271-2456-ND	13.34	11.54	10.68	PW149RA2403F01
	48V @ 0.25A	12		271-2458-ND	13.34	11.54	10.68	PW149RA4803F01
	5V @ 3A	15	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2440-ND	14.64	12.77	12.02	PW148RA0503F01
	9V @ 2A	18		271-2442-ND	14.96	12.72	11.97	PW148RA0903F01
	12V @ 1.5A	18		271-2444-ND	14.96	12.72	11.97	PW148RA1203F01
	24V @ 0.75A	18		271-2446-ND	14.64	12.77	12.02	PW148RA2403F01
	48V @ 0.4A	19.2		271-2448-ND	22.99	20.05	18.87	PW148RA4803F01
	9V @ 3A	27	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2467-ND	31.95	28.40	26.63	PW173KA0903F01
	12V @ 2.5A	30		271-2469-ND	31.95	28.40	26.63	PW173KA1203F01
	24V @ 1.33A	31.9		271-2471-ND	31.95	28.40	26.63	PW173KA2403F01
	48V @ 0.67A	32.2		271-2473-ND	31.95	28.40	26.63	PW173KA4803F01
	5V @ 2A	10	3.35 x 1.81 x 1.30 (85 x 46 x 33)	271-2449-ND	13.20	11.42	10.56	PW149RA0503B01
	9V @ 1.3A	11.7		271-2451-ND	13.20	11.42	10.56	PW149RA0903B01
	12V @ 1A	12		271-2453-ND	13.20	11.42	10.56	PW149RA1203B01
	24V @ 0.5A	12		271-2455-ND	13.12	11.35	10.50	PW149RA2403B01
	48V @ 0.25A	12		271-2457-ND	13.20	11.42	10.56	PW149RA4803B01
	5V @ 3A	15	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2439-ND	14.78	12.57	11.83	PW148RA0503B01
	9V @ 2A	18		271-2441-ND	23.26	19.78	18.61	PW148RA0903B01
	12V @ 1.5A	18		271-2443-ND	14.78	12.57	11.83	PW148RA1203B01
	24V @ 0.75A	18		271-2445-ND	14.78	12.57	11.83	PW148RA2403B01
	9V @ 3A	27	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2466-ND	31.59	28.08	26.33	PW173KA0903B01
	12V @ 2.5A	30		271-2468-ND	31.59	28.08	26.33	PW173KA1203B01
	24V @ 1.33A	31.9		271-2470-ND	31.59	28.08	26.33	PW173KA2403B01
	48V @ 0.67A	32.2		271-2472-ND	31.59	28.08	26.33	PW173KA4803B01
2	12V @ 4.2A	50.4	4.49 x 2.36 x 1.38 (114 x 60 x 35)	271-2459-ND	35.17	31.27	29.31	PW152KA1203F01
	24V @ 2A	48		271-2460-ND	35.17	31.27	29.31	PW152KA2403F01
	12V @ 5A	60	4.20 x 2.60 x 1.46 (107 x 66 x 37)	271-2474-ND	42.21	37.39	34.98	PW174KA1203F01
	24V @ 2.7A	64.8		271-2475-ND	42.21	37.39	34.98	PW174KA2403F01
			Medical Grade / Energy Star					
2	5V @ 3A	15	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2421-ND	28.71	25.52	23.93	MW172KA0503F01
	9V @ 2A	18		271-2423-ND	28.71	25.52	23.93	MW172KA0903F01
	12V @ 1.5A	18		271-2425-ND	28.71	25.52	23.93	MW172KA1203F01
	24V @ 0.75A	24		271-2427-ND	28.71	25.52	23.93	MW172KA2403F01
			ITE Industrial / High Power					
2	5V @ 12A	60	5.08 x 3.05 x 1.67 (129 x 77 x 40)	271-2428-ND	113.77	101.21	97.72	PW116MA0551F01
	9V @ 7.8A	70		271-2429-ND	113.77	101.21	97.72	PW116MA0951F01
	12V @ 6.67A	80		271-2430-ND	113.77	101.21	97.72	PW116MA1251F01
	24V @ 3.75A	90		271-2431-ND	108.82	96.81	93.47	PW116MA2403F01
	48V @ 1.87A	90		271-2432-ND	108.82	96.81	93.47	PW116MA4803F01
	+5V @ 4A +12V @ 1A	22.5	5.08 x 3.05 x 1.59 (129 x 77 x 40)	271-2481-ND	67.51	59.57	56.59	SW201MA0012F01
	+5V @ 4A +12V @ 1A -12V @ 0.6A	22.5	5.08 x 3.05 x 1.59 (129 x 77 x 40)	271-2482-ND	70.16	61.91	57.78	SW301MA0012F01
	+5V @ 5A +12V @ 4A -12V @ 0.5A	50	5.87 x 3.34 x 2.0 (149 x 86 x 51)	271-2480-ND	89.28	78.46	75.76	PW300MA0012F01
3	12V @ 8.15A	98	9.0 x 2.9 x 2.0 (229 x 74 x 51)	271-2436-ND	83.39	72.30	68.69	PW132RA1251F01
	24V @ 4.21A	101		271-2437-ND	82.30	71.36	67.79	PW132RA2403F01
	48V @ 2.08A	101		271-2438-ND	82.30	71.36	67.79	PW132RA4803F01
	12V @ 10A	120	9.0 x 2.9 x 2.0 (229 x 74 x 51)	271-2433-ND	130.32	113.93	111.93	PW122MA1251F01
	24V @ 5A	120		271-2434-ND	125.10	109.37	107.45	PW122MA2403F01
	48V @ 2.5A	120		271-2435-ND	125.10	109.37	107.45	PW122MA4803F01
			Medical Grade					
1	5V @ 2A	10	3.33 x 1.83 x 1.25 (85 x 47 x 32)	271-2397-ND	26.75	23.33	21.27	MW117RA0503F01
	9V @ 1.1A	10		271-2399-ND	26.75	23.33	21.27	MW117RA0903F01
	12V @ 0.85A	10.2		271-2401-ND	26.75	23.33	21.27	MW117RA1203F01
	24V @ 0.45A	10.8		271-2403-ND	26.75	23.33	21.27	MW117RA2403F01
	5V @ 4A	20	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2407-ND	29.00	28.14	27.55	MW128RA0503F01
	9V @ 3A	27		271-2409-ND	37.09	31.82	29.28	MW128RA0903F01
	12V @ 2.5A	30		271-2411-ND	37.09	31.82	29.28	MW128RA1203F01
	24V @ 1.33A	32		271-2413-ND	37.09	31.82	29.28	MW128RA2403F01
2	12V @ 5A	60	3.92 x 2.58 x 1.61 (100 x 66 x 41)	271-2414-ND	37.01	31.87	29.82	MW136RA1203F01
	24V @ 2.5A			271-2415-ND	37.01	31.87	29.82	MW136RA2403F01
	5V @ 5A	25	4.20 x 2.60 x 1.46 (107 x 66 x 37)	271-2416-ND	46.83	41.42	39.26	MW160KA0503F01
	9V @ 4.6A	42		271-2417-ND	46.83	41.42	39.26	MW160KA0903F01
	12V @ 3.5A	42		271-2418-ND	46.83	41.42	39.26	MW160KA1203F01
	24V @ 2A	48		271-2419-ND	46.83	41.42	39.26	MW160KA2403F01
	5V @ 12A	60		271-2393-ND	144.08	128.33	123.82	MW116MA0551F01
	24V @ 3.75A	90		271-2395-ND	140.42	122.77	118.46	MW116MA2403F01
3	12V @ 10A	120	9.0 x 2.9 x 2.0 (229 x 74 x 51)	271-2404-ND	147.92	129.32	124.79	MW122RA1251F01
	24V @ 5A	120		271-2405-ND	142.18	124.31	119.95	MW122RA2403F01
4	5V @ 2A	10	3.33 x 1.83 x 1.25 (85 x 47 x 32)	271-2396-ND	26.38	23.01	20.98	MW117RA0503B01
	9V @ 1.1A	10		271-2398-ND	26.38	23.01	20.98	MW117RA0903B01
	12V@ 0.85A	10.2		271-2400-ND	26.38	23.01	20.98	MW117RA1203B01
	24V@ 0.45A	10.8		271-2402-ND	26.38	23.01	20.98	MW117RA2403B01
	5V @ 4A	20	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2406-ND	35.34	30.32	27.90	MW128RA0503B01
	9V @ 3A	27		271-2408-ND	35.34	30.32	27.90	MW128RA0903B01
	12V @ 2.5A	30		271-2410-ND	35.34	30.32	27.90	MW128RA1203B01
	24V @ 1.33A	32		271-2412-ND	35.34	30.32	27.90	MW128RA2403B01
			Power Over Ethernet (PoE)					
5	48V @ 0.35A	15.4	4.25 x 2.62 x 1.52 (107.9 x 66.5 x 38.6)	271-2478-ND	29.41	26.15	24.51	PW180KB4800F01
	48V @ 0.35A			271-2479-ND†	29.41	26.15	24.51	PW180KB4800N01
	48V @ 0.4A	20	3.98 x 2.40 x 1.35 (101 x 61.5 x 34.2)	271-2476-ND	23.58	20.23	18.62	PW180KA4800F01
	48V @ 0.4A			271-2477-ND†	23.58	20.23	18.62	PW180KA4800N01
	48V @ 0.35A	17	5.24 x 2.13 x 1.42 (133.0 x 54.0 x 36.0)	271-2561-ND	56.06	53.26	50.46	PW182RB4800F01
	48V @ 0.40A	19		271-2560-ND	36.13	34.89	34.22	PW182RA4800F01
	48V @ 0.625A	30	5.24 x 2.13 x 1.42 (133.0 x 54.0 x 36.0)	271-2563-ND	53.37	50.71	48.04	PW183RB4800F01
	48V @ 0.67A	32		271-2562-ND	58.10	56.74	54.68	PW183RA4800F01
			Universal Configurable Input					
6	5V @ 2A	10	3.06 x 1.81 x 1.30 (77.7 x 46 x 33)	271-2461-ND	22.15	19.01	17.84	PW170KA0503B01
	9V @ 1.5A	13.5		271-2462-ND	22.15	19.01	17.84	PW170KA0903B01
	12V @ 1.25A	15		271-2463-ND	22.15	19.01	17.84	PW170KA1203B01
	24V @ 0.63A	15.12		271-2464-ND	22.15	19.01	17.84	PW170KA2403B01
	48V @ 0.31A	14.88		271-2465-ND	22.15	19.01	17.84	PW170KA4803B01
	5V @ 3A	15	3.74 x 2.13 x 1.26 (95 x 54 x 32)	271-2420-ND	28.08	24.96	23.40	MW172KA0503B01
	9V @ 2A	18		271-2422-ND	28.08	24.96	23.40	MW172KA0903B01
	12V @ 1.5A	18		271-2424-ND	28.08	24.96	23.40	MW172KA1203B01
	24V@ 0.75A	18		271-2426-ND	28.08	24.96	23.40	MW172KA2403B01
7	Interchangeable Blade Kit for PW170 and MW172 Wall Plug Series			271-2392-ND	5.76	4.87	4.43	KT1027K

† With Shaver C8 Style Plug

Manufacturers of the following product brands: CONDOR AULT

Medical Global Switchers

Features: • Wide range input (85-264V) • Approval to IEC601-1, UL2601 and CSA 601.1 (GNT30 Series approved to EN60601-1) • Conducted Emissions to FCC and VDC Class B • 2-Year Warranty • Models from 28-225W **Input Protection:** Internal AC fuse provided on all units. This fuse only blows if a catastrophic failure occurs in the unit — it does not blow on overload or short circuit. AC input protected against line transients by metal oxide varistors on all medical units. **Output Noise and Ripple:** 0.5% RMS, 1% Pk-Pk maximum on all outputs (20MHz bandwidth on GSM11 and GSM28 series) **Temperature Coefficient:** 0.03%/°C typical for all outputs **General Specifications:** • **AC Input:** 85-264VAC, 47-63Hz single phase • **Safety Specifications:** All medical models are approved to UL544/UL2601, IEC601-1, CSA234L3, VDE0750 and CE9LVD • **Overload Protection:** Fully protected against short circuit and output overload. Short circuit protection is cycling type on Outputs #1 and #2; fold back type on Outputs #3 and #4. Recovery after fault is automatic. • **Temperature Rating:** 0°C ~ 50°C full rated load • **Minimum Load:** Single output units require no minimum load except for GSM28 (GSM28 = ±5%). Multiple output units: GPM40 = 0.4A, GPM55 = 0.7A, GPM80 = 1A • **EMI Compliance:** All models include EMI filtering to meet or exceed conducted emissions of CISPR 11 Class B, VDE0871 Class B (FCC Class B, CISPR 11 Class B and EN5522 Class B for GSM28 Series) • **Voltage Adjustment:** Outputs adjustable ±5% minimum via built-in potentiometer (Factory set for GSM11 and GSM28 Series) • **Remote Sense:** Provided as a standard feature on the +5V output of the GPM130 and on all single output units, GLD150, GLM65, GPFM250 single and primary output GPM130 • **Reverse Voltage Protection:** All outputs protected against inadvertent application of reverse voltage up to 1 times the rated current of the reversed output • GNT30 series is a small footprint

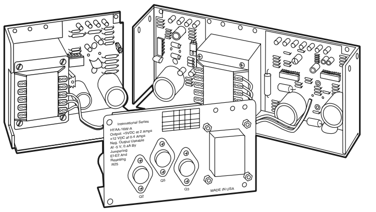

Single Output Medical

Total Power Watts	Voltage	Current (A)	Current (B)	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors							Digi-Key Part No.	Price Each			Condor Part No.
						Housing Input	Housing Output	Contacts	Signal Housing	Signal Contacts	Fan Outlet	Fan Contacts		1	10	25	
GSM Series																	
11	3.3V	2.2A	—	—	2.00 x 2.28 x .56 (50.80 x 57.91 x 14.22)	WM18874	WM18873	WM17406	—	—	—	—	271-2240-ND◆	33.49	31.82	30.15	GSM11-3AAG
	5.1V	2.2A	—	—									271-2241-ND◆	33.49	31.82	30.15	GSM11-5AAG
	12V	.92A	—	—									271-2242-ND◆	33.49	31.82	30.15	GSM11-12AAG
	15V	.73A	—	—									271-2243-ND◆	33.49	31.82	30.15	GSM11-15AAG
	24V	.46A	—	—									271-2244-ND◆	33.49	31.82	30.15	GSM11-24AAG
	28V	.39A	—	—									271-2245-ND◆	33.49	31.82	30.15	GSM11-28AAG
28	5.1V	5.5A	—	±5%	2.59 x 4.00 x .92 (65.79 x 101.60 x 23.37)	WM2125	WM2124	WM17403	—	—	—	—	271-2367-ND◆	59.63	56.65	53.67	GSM28-5G
	12V	2.3A	—	±5%									271-1122-ND	59.64	56.67	53.70	GSM28-12
	12V	2.3A	—	±5%									271-2365-ND◆	59.63	56.65	53.67	GSM28-12G
	24V	1.2A	—	±5%									271-2366-ND◆	59.63	56.65	53.67	GSM28-24G
Chassis and Cover for GSM28 Series, 4.31” x 3.10” x 1.53” (109.47mm x 78.74mm x 38.86mm)													271-1128-ND	18.76	—	—	08-30466-0028
Chassis and Cover for GSM28 Series, 4.31” x 3.10” x 1.53” (109.47mm x 78.74mm x 38.86mm)													271-2291-ND◆	18.76	—	—	08-30466-0028G
GNT30 Series																	
30	12V	2.5A	—	—	1.97 x 3.15 x .98 (50.04 x 80.01 x 24.89)	A31018	A31019	A9982 (Tool)	—	—	—	—	271-2330-ND◆	61.65	60.42	59.21	GNT30-12G
	15V	2.0A	—	—									271-2232-ND	61.65	60.42	59.21	GNT30-15
	15V	2.0A	—	—									271-2331-ND◆	61.65	60.42	59.21	GNT30-15G
	24V	1.25A	—	—									271-2233-ND	61.65	60.42	59.21	GNT30-24
	24V	1.25A	—	—									271-2332-ND◆	61.65	60.42	59.21	GNT30-24G
	28V	1.07A	—	—									271-2333-ND◆	59.28	58.09	56.93	GNT30-28G
	48V	0.625A	—	—									271-2334-ND◆	59.28	58.09	56.93	GNT30-48G
GPM41 Series																	
41	5.1V	6.0A	—	0.15	4.00 x 2.00 x 1.50 (101.60 x 50.80 x 38.10)	A19950	A19952	A19993CT	—	—	—	—	271-2227-ND	68.80	65.36	61.92	GPM41-5
	12V	3.3A	—	0.03									271-2228-ND	68.80	65.36	61.92	GPM41-12
	24V	1.7A	—	0.01									271-2229-ND	68.80	65.36	61.92	GPM41-24
GPM Series																	
40	15V	2.7A	—	—	3.00 x 5.00 x 1.28 (76.20 x 127.00 x 32.51)	WM2123	WM2104	WM17403	—	—	—	—	271-1020-ND	85.85	81.57	77.28	GPM40-15
	24V	1.7A (2.1pk)	—	—									271-1021-ND	85.85	81.57	77.28	GPM40-24
	28V	1.4A (2.1pk)	—	—									271-1022-ND	85.85	81.57	77.28	GPM40-28
80/110*	24V	3.4A	—	—	(177.80 x 107.95 x 47.24)	WM2103	WM2105	WM17403	—	—	—	—	271-1029-ND	157.40	149.53	141.67	GPM80-24
GLM Series																	
50	5.1V	8A	—	—	4.25 x 2.50 x 1.25 (107.95 x 63.50 x 31.75)	A19951	A19954	A19990	—	—	—	—	271-2198-ND	70.56	68.90	66.40	GLM50-5
	12V	4.2A	—	—									271-2192-ND	67.19	65.61	63.23	GLM50-12
	15V	3.3A	—	—									271-2193-ND	70.56	68.90	66.40	GLM50-15
	24V	2.1A	—	—									271-2194-ND	70.56	68.90	66.40	GLM50-24
	28V	1.8A	—	—									271-2195-ND	70.56	68.90	66.40	GLM50-28
65	12V	5.5A	—	—	5.00 x 3.00 x 1.00 (127.00 x 76.20 x 25.40)	A19951	A19954	A19990	—	—	—	—	271-2159-ND	84.85	80.62	76.37	GLM65-12
	15V	4.3A	—	—									271-2160-ND	84.85	80.62	76.37	GLM65-15
	24V	2.7A	—	—									271-2161-ND	84.85	80.62	76.37	GLM65-24
	28V	2.3A	—	—									271-2162-ND	84.85	80.62	76.37	GLM65-28
	48V	1.35A	—	—									271-2164-ND	77.17	73.31	69.46	GLM65-48
GNT60 Series — RoHS Compliant																	
60	12V	4.2A	—	—	4.0 x 2.0 x 0.97 (101.60 x 50.80 x 24.64)	A19950	A19952	A31396	—	—	—	—	271-2374-ND	54.27	52.66	51.57	GNT60-12G
	15V	4.0A	—	—									271-2375-ND	54.27	52.66	51.57	GNT60-15G
	24V	2.1A	—	—									271-2376-ND	54.27	52.66	51.57	GNT60-24G
GNT200 Series — RoHS Compliant																	
200	12V	12.5A	16.7A	—	3.0 x 5.0 x 1.25 (76.20 x 127.00 x 31.75)	WM2101	WM2104	WM2760CT	WM18878	WM17406	A19490	A19520	271-2545-ND	143.70	135.40	132.60	GNT212G
	15V	10.0A	13.3A	—									271-2546-ND	143.70	135.40	132.60	GNT215G
	24V	6.3A	8.3A	—									271-2547-ND	143.70	135.40	132.60	GNT224G
	36V	3.9A	5.6A	—									271-2548-ND	143.70	135.40	132.60	GNT236G
	48V	2.9A	4.2A	—									271-2549-ND	143.70	135.40	132.60	GNT248G
GPFM Series																	
115	5.1V	12A	—	—	5.25 x 3.30 x 1.50 (133.35 x 83.82 x 38.10)	A19953	A19956	A19990	A19492	A19520	—	—	271-2158-ND	126.25	119.93	113.64	GPFM115-
	12V	6.7A	—	—									271-2153-ND	126.25	119.93	113.64	GPFM115-12
	15V	5.3A	—	—									271-2154-ND	120.24	114.22	108.23	GPFM115-15
	24V	3.3A	—	—									271-2155-ND	120.24	114.22	108.23	GPFM115-24
	28V	2.9A	—	—									271-2156-ND	126.25	119.93	113.64	GPFM115-28
	48V	1.7A	—	—									271-2157-ND	126.25	119.93	113.64	GPFM115-48
250	12V	21A	—	—	8.00 x 5.00 x 1.75 (203.20 x 127.00 x 44.45)	A19953	A19956	A19990	—	—	—	—	271-2147-ND	311.93	296.35	280.75	GPFM250-12
	15V	17A	—	—									271-2148-ND	311.93	296.35	280.75	GPFM250-15
	24V	11A	—	—									271-2149-ND	311.93	296.35	280.75	GPFM250-24
	28V	9.5A	—	—									271-2150-ND	311.93	296.35	280.75	GPFM250-28
	48V	5.2/6.1A†	—	—									271-2151-ND	311.93	296.35	280.75	GPFM250-48
Cover with Fan for GPFM250 Series, 8.00” x 5.00” x 1.81” (203.20mm x 127.00m x 45.97mm)													271-2299-ND◆	31.21	—	—	09-250CFG

◆ ***RoHS Compliant*** * 26cfm moving air required † Convection/Air Flow

(Continued)

Medical Global Switchers

Single Output Medical *(Cont.)*

Total Power Watts	Voltage	Current (A)	Current (B)	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors							Digi-Key Part No.	Price Each			Condor Part No.
						Housing Input	Housing Output	Contacts	Signal Housing	Signal Contacts	Fan Outlet	Fan Contacts		1	10	25	
GLD Series																	
150	12V	10.8A	—	—	7.00 x 4.50 x 1.70 (177.80 x 114.30 x 43.18)	WM18436	WM3703	WM5959	A19494	A19490	—	—	271-2172-ND	241.87	229.77	217.69	GLD150-12
	12V	10.8A	—	—									271-2327-ND◆	241.87	229.77	217.69	GLD150-12G
	15V	8.7A	—	—									271-2173-ND	241.87	229.77	217.69	GLD150-15
	15V	8.7A	—	—									271-2328-ND◆	241.87	229.77	217.69	GLD150-15G
	24V	5.7A	—	—									271-2329-ND◆	230.35	218.83	207.32	GLD150-24G
GPMP Series																	
600	24V	25A	—	—	13.26 x 4.85 x 2.48 (336.80 x 123.19 x 62.99)	—	—	—	—	—	—	—	271-2236-ND	615.68	568.89	549.12	GPMP600-24
	28V	21.5A	—	—									271-2237-ND	615.68	568.89	549.12	GPMP600-28
	36V	17A	—	—									271-2238-ND	592.00	547.01	528.00	GPMP600-36
	48V	14A	—	—									271-2239-ND	615.68	568.89	549.12	GPMP700-48
900	24V	37.5A	—	—	11.18 x 4.85 x 2.48	—	—	—	—	—	—	—	271-2550-ND◆	676.00	636.91	623.73	GPMP900-24G
GLM75 Series — RoHS Compliant																	
75	12V	6.3A	9.1A	—	3.4 x 5.75 x 1.56 (86.36 x 146.05 x 39.62)	A19959	A19957	A19990	—	—	—	—	271-2535-ND	94.38	89.67	84.95	GLM75-12G
	15V	5A	7.3A	—									271-2536-ND	94.38	89.67	84.95	GLM75-15G
	24V	3.1A	4.6A	—									271-2537-ND	94.38	89.67	84.95	GLM75-24G
	28V	2.7A	4A	—									271-2538-ND	94.38	89.67	84.95	GLM75-28G

Multiple Output Medical

Total Power Watts	Output 1	Output 2	Output 3	Output 4	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Condor Part No.
						Housing Input	Housing Output	Contacts		1	10	25	50	
GPM Series														
40	+5V @ 4.0A	+12V @ 2.0A (3pk)	-12V @ 0.4A	—	3.00 x 5.00 x 1.28 (76.20 x 127.00 x 32.51)	WM2123	WM2104	WM17403	271-1039-ND	85.85	81.57	77.28	72.97	GPM40A
	+5V @ 4.0A	+15V @ 2.0A (3pk)	-15V @ 0.4A	—					271-1040-ND	85.85	81.57	77.28	72.97	GPM40B
GLM50 Series														
50	+5.05V @ 4A	+12V @ 2.5A	-12V @ 0.2A	—	4.25 x 2.50 x 1.25 (107.95 x 63.50 x 31.75)	A19951	A19954	A19990	271-2199-ND	70.56	68.90	66.40	62.64	GLM50A
	+5.1V @ 4A	+15V @ 2.5A	-15V @ 0.2A	—					271-2200-ND	70.56	68.90	66.40	62.64	GLM50B
	+5.1V @ 4A	+24V @ 1.5A	-12V @ 0.2A	—					271-2201-ND	70.56	68.90	66.40	62.64	GLM50D
GPM Series														
55	+5V @ 6.0A	+12V @ 3.0A (5pk)	+12V @ 1.0A	-12V @ 1.0A	6.30 x 3.94 x 1.68 (160.02 x 100.08 x 42.67)	WM17401	WM17402	WM17403	271-2353-ND◆	114.47	108.74	103.02	97.30	GPM55AG
	+5V @ 6.0A	+12V @ 3.0A (5pk)	-5V @ 1.0A	-12V @ 1.0A					271-2354-ND◆	114.47	108.74	103.02	97.30	GPM55BG
	+5V @ 6.0A	+15V @ 3.0A (5pk)	-5V @ 1.0A	-15V @ 1.0A					271-2355-ND◆	114.47	108.74	103.02	97.30	GPM55CG
	+5V @ 6.0A	+24V @ 1.5A (2pk)	+12V @ 1.0A	-12V @ 1.0A					271-2356-ND◆	114.47	108.74	103.02	97.30	GPM55DG
	+5V @ 6.0A	+24V @ 1.5A (2pk)	+15V @ 1.0A	-15V @ 1.0A					271-2357-ND◆	109.02	103.57	98.12	92.67	GPM55EG
	+12V @ 5.80A	—	—	—					271-2352-ND◆	114.47	108.74	103.02	97.30	GPM55-12G
80/110*	+5V @ 12.0A	+12V @ 3.0A (5pk)	-12V @ 1.0A	+12V @ 1.0A	7.00 x 4.25 x 1.86 (177.80 x 107.95 x 47.24)	WM2103	WM1910	WM17403	271-1046-ND	157.40	149.53	141.67	133.79	GPM80A
	+5V @ 12.0A	+12V @ 3.0A (5pk)	-15V @ 1.0A	+15V @ 1.0A					271-1048-ND	157.40	149.53	141.67	133.79	GPM80C
	+5V @ 12.0A	+24V @ 2.0A (4pk)	-15V @ 1.0A	+15V @ 1.0A					271-1050-ND	157.40	149.53	141.67	133.79	GPM80E
	+5V @ 12.0A	+24V @ 3.5A (4.5pk)	-12V @ 1.0A	+12V @ 2.0A					271-1051-ND	157.40	149.53	141.67	133.79	GPM80P
GLM75 Series — RoHS Compliant														
75	5.1V @ 8.0A	12V @ 2.5A	-12V @ 1A	12V @ 2.5A	3.4 x 5.75 x 1.56 (86.36 x 146.05 x 39.62)	A19953	A28761	A31398CT	271-2539-ND	96.60	91.77	86.95	82.10	GLM75AG
	5.1V @ 8.0A	12V @ 2.5A	-15V @ 1A	15V @ 2.5A					271-2540-ND	96.60	91.77	86.95	82.10	GLM75CG
	5.1V @ 8.0A	24V @ 2.5A	-12V @ 1A	12V @ 2.5A					271-2541-ND	96.60	91.77	86.95	82.10	GLM75DG
	5.1V @ 8.0A	24V @ 2.5A	-15V @ 1A	15V @ 2.5A					271-2542-ND	96.60	96.60	86.95	82.10	GLM75EG
	5.1V @ 8.0A	24V @ 4.0A	-12V @ 1A	12V @ 2.5A					271-2544-ND	96.60	91.77	86.95	82.10	GLM75PG
110*	5.1V @ 10.0A	12V @ 3.0A	-12V @ 1A	12V @ 3.0A	3.4 x 5.75 x 1.56 (86.36 x 146.05 x 39.62)	A19953	A28761	A31398CT	271-2539-ND	96.60	91.77	86.95	82.10	GLM75AG
	5.1V @ 10.0A	12V @ 3.0A	-15V @ 1A	15V @ 3.0A					271-2540-ND	96.60	91.77	86.95	82.10	GLM75CG
	5.1V @ 10.0A	24V @ 2.5A	-12V @ 1A	12V @ 3.0A					271-2541-ND	96.60	91.77	86.95	82.10	GLM75DG
	5.1V @ 10.0A	24V @ 2.5A	-15V @ 1A	15V @ 3.0A					271-2542-ND	96.60	96.60	86.95	82.10	GLM75EG
	5.1V @ 10.0A	24V @ 4.0A	-12V @ 1A	12V @ 3.0A					271-2544-ND	96.60	91.77	86.95	82.10	GLM75PG

◆ ***RoHS Compliant*** * 26cfm moving air required. † Convection/Air Flow

Linear Medical Power Supplies

World Class Medical Linears

Features: • 19 Models (single, dual and triple output) • Approved to UL 544, IEC 601 and CSA 234 L3 • 3 power levels (5 to 92 watts) • Medical leakage current does not exceed 10µA • 8-Hour burn-in with cycling • Full 3-year warranty ***World Wide AC Input Ranges:*** • AC Input: 110/120/220/240VAC, 47-63Hz • OVP on all 5V outputs • Meets EMI per FCC/VDE B ***Industry Standard Packaging:*** • Hermetically sealed power transistors and ICs • MTFB 200,000+ hours per mil handbook 217D

Single Output

Output	Dimensions Inch (mm)	Digi-Key Part No.	Price Each				Condor Part No.
			1	10	25	50	
5V@1.0A	4.25 x 3.25 x 1.80 (107.95 x 82.55 x 45.72)	271-1018-ND	48.83	47.38	46.40	46.16	ML5-1-OV-A
5V@3.0A	4.88 x 4.00 x 2.25 (123.95 x 101.60 x 57.15)	271-1006-ND	58.85	57.09	55.92	52.97	MB5-3-OV-A
5V@6.0A	5.63 x 4.86 x 2.95 (143.00 x 123.44 x 74.93)	271-1012-ND	75.13	72.88	71.38	67.62	MC5-6-OV-A
12V@1.7A	4.88 x 4.00 x 2.25 (123.95 x 101.60 x 57.15)	271-1002-ND	58.85	57.09	55.92	52.97	MB12-1.7-A
15V@0.4A	4.25 x 3.25 x 1.80 (107.95 x 82.55 x 45.72)	271-1017-ND	48.83	47.38	46.40	46.16	ML15-O.4-A
15V@1.5A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1003-ND	58.85	57.09	55.92	52.97	MB15-1.5-A
24V@1.2A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1004-ND	58.85	57.09	55.92	52.97	MB24-1.2-A
24V@2.4A	5.63 x 4.86 x 2.95 (143.00 x 123.44 x 74.93)	271-1011-ND	75.13	72.88	71.38	67.62	MC24-2.4-A
24V@4.8A	9.00 x 4.86 x 3.30 (228.60 x 123.44 x 83.82)	271-1015-ND	116.45	112.96	110.62	104.80	MD24-4.8-A
28V@1.0A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1005-ND	58.85	57.09	55.92	52.97	MB28-1-A

Multiple Output

Output 1	Output 2	Output 3	Dimensions Inch (mm)	Digi-Key Part No.	Price Each				Condor Part No.
					1	10	25	50	
Dual Output									
+12/15V@1.0/0.8A	–12/15V@1.0/0.8A	—	6.50 x 4.00 x 2.25 (165.10 x 101.60 x 57.15)	271-1000-ND	66.37	64.37	63.04	59.65	MAA15-0.8-A
+15/15V@3.4/3.0A	–15/15V@3.4/3.0A	—	9.38 x 4.88 x 3.30 (238.25 x 123.95 x 83.82)	271-1014-ND	127.71	123.90	121.35	114.95	MCC15-3-A
Triple Output									
+5V@3.0A	+12/15V@1.0/0.8A	–12/15V@1.0/0.8A	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	271-1007-ND	110.20	106.88	104.69	99.18	MBAA40W-A

Manufacturers of the following product brands:

Linear Power Supplies

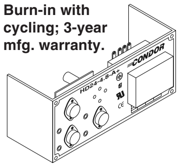
Burn-in with cycling; 3-year mfg. warranty.

FEATURES: • Worldwide AC input ranges and safety standards • Industry standard packages • UL/CSA TUV/IEC approved - 68 models to UL1950; CSA C22.2 No. 234 L3; TUV certified to IEC950 • Capacitors have highest CV and ripple current ratings • MTBF 200,000+ hours per Mil Handbk 217D (most units) • All electrolytic caps rated at 105°C • Transformer insulation meets Class F (155°C) • Exceed FCC and CISPR22 Class B conducted emissions • CE marked to LVD

GENERAL SPECIFICATIONS: • **AC Input:** 100/120/240VAC: +10%, -13%; 215VAC: +12%, -11%; 47 ~ 63Hz. Tolerance for 230VAC operation is +15%, -10%. Derate output current 10% for 50Hz operation • **DC Output:** Adjustment range ±5% minimum except HA series • **Line Regulation:** ±0.05% for a 10% change • **Load Regulation:** ±0.05% for a 50% load change • **Output Ripple:** 3mV +0.05% of output voltage, peak to peak maximum. All "3-terminal regulator" outputs: 3mV +0.2% peak to peak maximum • **Transient Response:** <50 microseconds for 50% load change • **Short Circuit Protection:** Automatic current limit/foldback • **Overvoltage Protection:** Built-in on all 5V models, set at 6.2V ±0.4V. Other models use optional over voltage protection • **Stability**: ±0.05% for 24 hours after warmup • **Temperature Rating:** 0°C ~ 50°C full rated, derated linearly to 40% at 70°C • **Temperature Coefficient:** ±0.01%/°C maximum • **Logic Inhibit and Current-Share:** F Models

International+ Series Single Output

Output	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each 1	10	25	50	100	Condor Part No.
5V@1.5A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2248-ND◆	39.82	36.38	35.68	33.92	32.18	HA5-1.5-OV-A+G
5V@3A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2253-ND◆	42.47	41.21	40.39	38.38	36.47	HB5-3-OV-A+G
5V@6A	5.63 x 4.875 x 2.50 (143.0 x 123.83 x 63.50)	4 (1.81)	271-2258-ND◆	68.76	66.74	64.18	60.82	57.42	HC5-6-OV-A+G
5V@9A	7.00 x 4.88 x 2.75 (177.80 x 123.95 x 69.85)	7 (3.18)	271-2269-ND◆	93.80	91.02	87.96	83.34	78.71	HN5-9-OV-A+G
5V@12A	9.00 x 4.88 x 2.75 (228.60 x 123.95 x 69.85)	7.5 (3.40)	271-2262-ND◆	105.12	101.98	99.87	94.61	89.35	HD5-12-OV-A+G
5V@18A	14.00 x 4.88 x 2.75 (355.60 x 123.95 x 69.85)	10 (4.54)	271-2047-ND*	155.54	151.07	148.09	139.50	131.14	HE5-18-OV-A+
12V@3.4A	5.63 x 4.875 x 2.50 (143.0 x 123.83 x 63.50)	4 (1.81)	271-2254-ND◆	62.51	60.65	58.24	55.18	52.11	HC12-3.4-A+G
12V@5.1A	7.00 x 4.88 x 2.75 (177.80 x 123.95 x 69.85)	7 (3.18)	271-2267-ND◆	87.55	84.97	82.03	77.72	73.39	HN12-5.1-A+G
12V@10.2A	14.00 x 4.88 x 2.75 (355.60 x 123.95 x 69.84)	10 (4.54)	271-2263-ND◆*	137.00	132.93	130.22	123.43	115.43	HE12-10.2-A+G
15V@0.9A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2246-ND◆	37.66	36.38	35.68	33.92	32.18	HA15-0.9-A+G
15V@3A	5.63 x 4.875 x 2.50 (143.0 x 123.83 x 63.50)	4 (1.81)	271-2255-ND◆	62.51	60.65	58.24	55.18	52.11	HC15-3-A+G
15V@6A	9.00 x 4.88 x 2.75 (228.60 x 123.95 x 69.85)	7.5 (3.40)	271-2259-ND◆	100.08	97.11	93.92	90.20	84.04	HD15-6-A+G
15V@9A	14.00 x 4.88 x 2.75 (355.60 x 123.95 x 69.84)	10 (4.54)	271-2264-ND◆*	130.47	126.60	124.01	117.55	109.93	HE15-9-A+G
24V@0.5A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2247-ND◆	39.82	36.38	35.68	33.92	32.18	HA24-0.5-A+G
24V@1.2A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2250-ND◆	42.47	41.21	40.39	38.38	36.47	HB24-1.2-A+G
24V@2.4A	5.63 x 4.875 x 2.50 (143.0 x 123.83 x 63.50)	4 (1.81)	271-2256-ND◆	62.51	60.65	58.24	55.18	52.11	HC24-2.4-A+G
24V@3.6A	7.00 x 4.88 x 2.75 (177.80 x 123.95 x 69.85)	7 (3.18)	271-2268-ND◆	87.55	84.97	82.03	77.72	73.39	HN24-3.6-A+G
24V@4.8A	9.00 x 4.88 x 2.75 (228.60 x 123.95 x 69.85)	7.5 (3.40)	271-2260-ND◆	100.08	97.11	93.92	90.20	84.04	HD24-4.8-A+G
24V@7.2A	14.00 x 4.88 x 2.75 (355.60 x 123.95 x 69.84)	10 (4.54)	271-2265-ND◆	137.00	132.93	130.22	123.43	115.43	HE24-7.2-A+G
24V@12A	16.75 x 4.88 x 3.50 (425.45 x 123.95 x 88.90)	18 (8.16)	271-2270-ND◆	212.08	206.27	200.09	196.09	184.33	F24-12-A+G
28V@1A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2251-ND◆	42.47	41.21	40.39	38.38	36.47	HB28-1-A+G
28V@2A	5.63 x 4.875 x 2.50 (143.0 x 123.83 x 63.50)	4 (1.81)	271-2257-ND◆	62.51	60.65	58.24	55.18	52.11	HC28-2-A+G
28V@4A	9.00 x 4.88 x 2.75 (228.60 x 123.95 x 69.85)	7.5 (3.40)	271-2261-ND◆	100.11	97.11	93.92	90.20	84.04	HD28-4-A+G
48V@0.5A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2252-ND◆	48.58	47.13	46.19	43.43	41.27	HB48-0.5-A+G
48V@6A	16.75 x 4.88 x 3.50 (425.45 x 123.95 x 88.90)	18 (8.16)	271-2271-ND◆*	229.41	222.55	215.88	211.57	198.88	F48-6-A+G

International+ Series Dual Output

Output 1	Output 2	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
5V@1.5A	5V@1.5A	6.50 x 4.00 x 1.80 (165.10 x 101.60 x 45.72)	2 (0.91)	271-2275-ND◆	62.85	59.47	58.24	55.18	HAA5-1.5-OV-A+G
5V@2A	9V ~ 15V@0.5A	6.50 x 4.00 x 1.80 (165.10 x 101.60 x 45.72)	2 (0.91)	271-2276-ND◆	62.51	59.39	58.24	55.18	HAA512-A+G
5V@3A	9V ~ 15V@1.2A	7.00 x 4.88 x 2.50 (177.80 x 123.95 x 63.50)	4 (1.81)	271-2282-ND◆	75.08	72.82	71.32	67.58	HBB512-A+G
5V@6A	9V ~ 15V@2.5A	9.38 x 4.88 x 2.75 (238.25 x 123.95 x 69.85)	7 (3.18)	271-2033-ND*	123.18	119.52	115.83	109.74	HCC512-A+
5V@6A	9V ~ 15V@2.5A	9.38 x 4.88 x 2.75 (238.25 x 123.95 x 69.85)	7 (3.18)	271-2286-ND◆*	118.86	115.32	111.76	105.89	HCC512-A+G
12V@0.4A	-12V@0.4A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2277-ND◆	46.48	45.40	43.36	41.10	HAD12-0.4-A+G
15V@0.4A	-15V@0.4A	4.88 x 4.00 x 1.80 (123.95 x 101.60 x 45.72)	2 (0.91)	271-2278-ND◆	46.48	45.40	43.36	41.10	HAD15-0.4-A+G
12V ~ 15V@1A/0.8A	-12V ~ -15V@1A/0.8A	6.50 x 4.00 x 1.80 (165.10 x 101.60 x 45.72)	2 (0.91)	271-2273-ND◆	53.78	52.18	51.10	48.40	HAA15-0.8-A+G
12V ~ 15V@1.7A/1.5A	-12V ~ -15V@1.7A/1.5A	7.00 x 4.88 x 2.50 (177.80 x 123.95 x 63.50)	4 (1.81)	271-2280-ND◆	68.80	66.75	65.36	61.93	HBB15-1.5-A+G
12V ~ 15V@3.4A/3A	-12V ~ -15V@3.4A/3A	9.38 x 4.88 x 2.75 (238.25 x 123.95 x 69.85)	7 (3.18)	271-2285-ND◆	110.07	106.80	104.64	98.00	HCC15-3-A+G
12V ~ 15V@5V	-12V ~ -15V@5V	14.00 x 4.88 x 2.75 (355.60 x 123.95 x 69.84)	10 (4.54)	271-2288-ND◆	162.04	157.22	154.11	145.96	HDD15-5-A+G
18V ~ 24V@0.4A/0.6A	-18V ~ -24V@0.4A/0.6A	6.50 x 4.00 x 1.80 (165.10 x 101.60 x 45.72)	2 (0.91)	271-2274-ND◆	52.53	50.97	49.91	47.29	HAA24-0.6-A+G

International+ Series Triple Output

Output 1	Output 2	Output 3	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
5V@2A	12V ~ 15V@0.4/0.4A	-12V ~ -15V@0.4/0.4A	6.50 x 4.00 x 1.80 (165.10 x 101.60 x 45.72)	2 (0.91)	271-2289-ND◆†	68.76	66.73	64.18	60.72	HTAA-16W-A+G
5V@3A	12V ~ 15V@1/0.8A	-12V ~ -15V@1/0.8A	10.25 x 4.00 x 2.50 (260.35 x 101.60 x 63.50)	5 (2.27)	271-2279-ND◆†	95.06	92.24	89.15	84.48	HBAA40W-A+G
5V@6A	12V ~ 15V@1/0.8A	-12V ~ -15V@1/0.8A	9.00 x 4.88 x 2.75 (228.60 x 123.95 x 69.85)	7.5 (3.40)	271-2283-ND◆†	112.58	109.25	107.01	100.59	HCAA60W-A+G
5V@6A	12V ~ 15V@1.7/1.5A	-12V ~ -15V@1.7/1.5A	11.00 x 4.88 x 2.75 (279.40 x 123.95 x 69.85)	8 (3.63)	271-2284-ND◆†	129.93	126.21	121.16	115.11	HCBB75W-A+G
5V@6A	24V@3.5/6A	-5V or -12V@1.2A	11.00 x 4.88 x 2.75 (279.40 x 123.95 x 69.85)	12 (5.44)	271-2272-ND◆	160.84	156.02	152.81	144.76	CP379-A+G
5V@9A	12V ~ 15V@1.7/1.5A	-12V ~ -15V@1.7/1.5A	11.00 x 4.88 x 2.75 (279.40 x 123.95 x 69.85)	12 (5.44)	271-2001-ND†	150.16	145.69	142.71	134.06	CP131-A+
5V@12A	12V ~ 15V@3.4/3A	-12V ~ -15V@3.4/3A	15.00 x 4.88 x 3.75 (381.0 x 123.95 x 95.25)	12 (5.44)	271-2287-ND◆*	193.97	188.31	183.13	173.50	HDCC150W-A+G

◆ ***RoHS Compliant*** * Requires fan cooling. † No. 3 output usable at -5V, rate at 1/2 of 15V current rating.

Manufacturers of the following product brands: CONDOR AULT

Switch Mode DC Power Supplies

The standard version power supply for data processing and control applications.

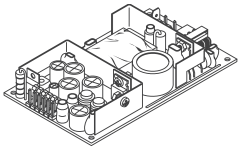

General Features: • Cost Effective Power Source • 2 Year Warranty - 100% burn-in, test and inspection **Safety Specifications:** • For safety ratings and certifications, please see data sheet for specified series **General Specifications:** • **AC Input:** 90 ~ 264VAC, 47 ~ 63Hz single phase (GPC41, GPFC110 and GPFC160 Series: 85 ~ 264VAC, 47 ~ 63Hz single phase; GNT 400 Series: 80 ~ 270VAC, 45 ~ 65Hz) • **Overload Protection:** Fully protected against short circuit and output overload • **Temperature Rating:** 0°C ~ 50°C full rated output power and 0°C ~ 70°C for GNT 400 Series • **EMI Compliance:** All models include EMI filtering to meet or exceed conducted emissions of CISPR 11 Class B, VDE0871 Class B and EN55022 Class B (GPFC110 in compliance to CISPR22, FCC Class B) • **Remote Sense:** GPFC110 and GPFC160 Series only • **Reverse Voltage Protection:** All outputs protected against inadvertent application of reverse voltage up to 1 times the rated current of the reverse output

Watt-age	Volt-age	Min Load (A)	Current – Amps		I Peak (A)	Dimensions L x W x H Inch (mm)	Mating Connectors					Digi-Key Part No.	Price Each				Condor Part No.
			A	B			Housing Input	Housing Output	Contacts	Signal Housing	Signal Contact		1	10	25	50	
GSC20 Series - Commercial Switcher — RoHS Compliant																	
20	5.1	—	3.8	—	—	2.00 x 3.50 x 0.68 (50.80 x 88.90 x 17.27)	WM17405	WM17405	WM17406	—	—	271-2362-ND	55.04	52.29	49.54	46.78	GSC20-5G
	12		1.7									271-2358-ND	55.04	52.29	49.54	46.78	GSC20-12G
	15		1.4									271-2359-ND	52.41	49.79	47.17	44.55	GSC20-15G
	24		0.85									271-2360-ND	55.04	52.29	49.54	46.78	GSC20-24G
	28		0.7									271-2361-ND	55.04	52.29	49.54	46.78	GSC20-28G
Chassis and Cover for GSC20 Series, 3.80" x 2.36" x 1.06" (96.52mm x 59.94mm x 26.92mm)												271-2293-ND	17.03	—	—	—	08-30466-020WG
Single Output - GECA20 Series — RoHS Compliant																	
20	5.1	—	4.0	—	—	3.5 x 2.00 x 0.85 (88.9 x 50.80 x 21.59)	WM2101	WM2102	WM2302	—	—	271-2495-ND	19.20	15.65	14.40	13.92	GECA20-5G
	12		1.67									271-2496-ND	19.20	15.65	14.40	13.92	GECA20-12G
	15		1.34									271-2497-ND	19.20	15.65	14.40	13.92	GECA20-15G
	24		0.84									271-2498-ND	19.20	15.65	14.40	13.92	GECA20-24G
Triple Output - GSC25 Series — RoHS Compliant																	
25	5.1	0.25	2.5	—	—	4.25 x 2.5 x .86 (107.95 x 63.50 x 21.84)	WM2123	WM2104	WM17403	—	—	271-2363-ND	58.47	55.55	52.64	49.71	GSC25AG
	12	—	1.5														
	-12	—	0.2														
25	5.1	0.25	2.5	—	—	4.25 x 2.5 x .86 (107.95 x 63.50 x 21.84)	WM2123	WM2104	WM17403	—	—	271-2364-ND	58.47	55.55	52.64	49.71	GSC25DG
	24	—	1.0														
	-12	—	0.2														
Chassis and Cover for GSC25 Series, 5.00" x 2.90" x 1.50" (127.00mm x 73.66mm x 38.10mm)												271-2290-ND	18.76	—	—	—	08-30466-0025G
Single Output - GECA40 Series — RoHS Compliant																	
40	5	—	7	—	—	3.00 x 5.00 x 1.25 (76.2 x 127 x 31.75)	WM2101	WM2104	WM2302	—	—	271-2499-ND	23.79	19.52	18.30	17.39	GECA40-5G
	12	—	3.3									271-2528-ND	23.79	19.52	18.30	17.39	GECA40-12G
	15	—	2.7									271-2529-ND	23.79	19.52	18.30	17.39	GECA40-15G
	24	—	1.7									271-2530-ND	23.79	19.52	18.30	17.39	GECA40-24G
	5	0.35	3.5									271-2531-ND	25.55	20.96	19.65	18.67	GECA40AG
	5	0.35	3.5									271-2532-ND	25.55	20.96	19.65	18.67	GECA40BG
	5	0.35	3.5									271-2533-ND	25.55	20.96	19.65	18.67	GECA40DG
	3.3	0.4	4									271-2534-ND	25.55	20.96	19.65	18.67	GECA40HG
Single Output - GPC41 Series — RoHS Compliant																	
30	5.1	0.15	6.0	—	—	4.00 x 2.00 x 1.5 (101.60 x 50.80 x 38.10)	A19950	A19952	A19990	—	—	271-2338-ND	57.34	54.48	51.61	48.75	GPC41-5G
30	5.1	0.15	6.0									271-2336-ND	57.34	54.48	51.61	48.75	GPC41-12G
40	12	0.03	3.3									271-2337-ND	57.34	54.48	51.61	48.75	GPC41-24G
40	24	0.01	1.7														
Cover for GPC41 Series, 3.32" x 1.98" x 1.66" (84.33mm x 50.29mm x 42.16mm)												271-2294-ND	18.69	—	—	—	08-30466-1041G
Single Output - GPC40 Series — RoHS Compliant																	
40	3.3	—	8	—	10	5.00 x 3.00 x 1.28 (127.00 x 76.20 x 32.51)	A19951	A19954	A19991	A19490	A19520	271-2554-ND	69.50	67.97	66.59	63.11	GPC40-3.3G
	5		8		10							271-2555-ND	69.50	67.97	66.59	63.11	GPC40-5G
	9		4.5		6							271-2556-ND	69.50	67.97	66.59	63.11	GPC40-9G
	12		3.3		4.2							271-2551-ND	71.55	67.41	66.02	62.46	GPC40-12G
	15		2.7		3.3							271-2552-ND	71.55	67.41	66.02	62.46	GPC40-15G
	24		1.7		2.1							271-2553-ND	71.55	67.41	66.02	62.46	GPC40-24G
Triple Output - GPC40 Series — RoHS Compliant																	
40	5.1	0.4	4	—	5	5.00 x 3.00 x 1.28 (127.00 x 76.20 x 32.51)	A19951	A19954	A19991	A19490	A19520	271-2557-ND	69.50	67.97	66.59	63.11	GPC40AG
	12§Δ	—	2		3												
	-12Δ	—	0.4		0.7												
40	5.1	0.4	4	—	5	5.00 x 3.00 x 1.28 (127.00 x 76.20 x 32.51)	A19951	A19954	A19991	—	—	271-2558-ND	69.50	67.97	66.59	63.11	GPC40BG
	15§Δ	—	2		3												
	-15Δ	—	0.4		0.7												
40	5.1	0.4	4	—	5	5.00 x 3.00 x 1.28 (127.00 x 76.20 x 32.51)	A19951	A19954	A19991	—	—	271-2559-ND	68.38	63.19	60.99	58.45	GPC40DG
	24§Δ	—	1		1.5												
	-12Δ	—	0.4		0.7												
Single Output - GLC50 Series — RoHS Compliant																	
50	3.3	—	8	—	—	4.25 x 2.5 x 1.10 (107.95 x 63.50 x 21.94)	WM2123	WM2126	WM17403	—	—	271-2307-ND	61.35	59.92	57.74	54.48	GLC50-3.3G
	5.1		8									271-2308-ND	61.35	59.92	57.74	54.48	GLC50-5G
	12		4.2									271-2305-ND	61.35	59.92	57.74	54.48	GLC50-12G
	24		2.1									271-2306-ND	61.35	59.92	57.74	54.48	GLC50-24G
Triple Output - GLC50 Series — RoHS Compliant																	
50	5.05	0.8	4	—	—	4.25 x 2.5 x 1.10 (107.95 x 63.50 x 27.94)	WM2123	WM2126	WM17403	—	—	271-2309-ND	61.35	59.92	57.74	54.48	GLC50AG
	12	0.8	2.5														
	-12	0.8	0.2														
50	5.1	0.8	4	—	—	4.25 x 2.5 x 1.10 (107.95 x 63.50 x 27.94)	WM2123	WM2126	WM17403	—	—	271-2310-ND	61.35	59.92	57.74	54.48	GLC50DG
	24	0.8	1.5														
	-12	0.8	0.2														
Chassis and Cover for GLC50 Series, 5.00" x 2.90" x 1.50" (127.00mm x 73.66mm x 38.10mm)												271-2292-ND	19.55	—	—	—	08-30466-0050G
GLC65 Series — RoHS Compliant																	
65	5.1	—	11	—	—	5.00 x 3.00 x 1.00 (127.00 x 76.20 x 25.40)	A19951	A19954	A19990	—	—	271-2316-ND	80.54	76.52	72.50	68.47	GLC65-5G
	12		5.5									271-2311-ND	78.90	74.96	71.02	67.49	GLC65-12G
	15		4.3									271-2312-ND	78.90	74.96	71.02	67.49	GLC65-15G
	24		2.7									271-2313-ND	78.90	74.96	71.02	67.49	GLC65-24G
	28		2.3									271-2314-ND	78.90	74.96	71.02	67.49	GLC65-28G
	48		1.35									271-2315-ND	80.54	76.52	72.50	68.47	GLC65-48G
65	5.0	—	7	—	—	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2317-ND	78.70	74.77	71.03	68.22	GLC65AG
	12		3														
	-12		2.5														
65	5.0	—	7	—	—	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2318-ND	74.95	71.21	67.64	64.97	GLC65DG
	24		1.5														
	-12		2.5														
65	5.0	—	7	—	—	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2319-ND	78.70	74.77	71.03	68.22	GLC65EG
	24		1.5														
	12		2.5														
65	5.0	—	8	—	—	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2320-ND	74.95	71.21	67.64	64.97	GLC65GG
	3.3		5														
	12		4														
65	3.3	—	5	—	—	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2321-ND	78.70	74.77	71.03	68.22	GLC65HG
	5.0		4														
	12		2.5														

* Floating fourth output can be referenced as either positive or negative. **Amperage Rating Notes for GLC75 and GLC110 Series:** • **Current A**: Rating with unrestricted convection cooling. Total power not to exceed 75W. • **Current B:** Rating with 26cfm forced air cooling. Total power not to exceed 110W. • **I Peak:** During peak load conditions output regulation may exceed specified limits. † Output 3 is isolated. Can be connected as + or - output. ‡ Peak rating or continuous rating with 150 LFM air cooling. § To maintain these regulation conditions, the 5.1V must be at least 1/4 of V2 and not greater than 5 times the V2 current Δ Requires 5.1V to be adjusted within ±1% with at least a 0.4A load to maintain regulation on this output. ◆ ***RoHS Compliant***

(Continued)

Switch Mode DC Power Supplies *(Cont.)*

Watt-age	Volt-age	Min Load (A)	Current – Amps		I Peak (A)	Dimensions L x W x H Inch (mm)	Mating Connectors					Digi-Key Part No.	Price Each				Condor Part No.
			A	B			Housing Input	Housing Output	Contacts	Signal Housing	Signal Contact		1	10	25	50	
Single Output - GLC75 Series (See Amperage Rating Notes Below) — RoHS Compliant																	
75	5.1 12 24	—	13.7 6.3 3.1	19.6 9.1 4.6	19.6 9.1 4.6	5.75 x 3.40 x 1.56 (146.05 x 86.36 x 39.70)	WM2125	WM2129	WM17403	—	—	271-2324-ND 271-2322-ND 271-2323-ND	78.91 75.15 75.15	74.97 71.40 71.40	71.03 67.64 67.64	67.50 64.40 64.40	GLC75-5G GLC75-12G GLC75-24G
Chassis and Cover for GLC75 Single Output Series, 5.90” x 3.75” x 1.98” (149.86mm x 95.25mm x 50.29mm)												271-2295-ND	18.92	—	—	—	08-30466-2075G
Quad Output - GLC75 Series (See Amperage Rating Notes Below) — RoHS Compliant																	
75	5.1 12 -12 12*	1 0.5 — —	8 2.5 1 2.5	10 3 1 3	12 4 1.2 4	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	WM2125	WM17404	WM17403	—	—	271-2325-ND	80.77	76.74	72.70	68.65	GLC75AG
75	5.1 24 -12 12*	1 0.5 — —	8 2.5 1 2.5	10 3 1 3	12 4 1.2 4	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	WM2125	WM17404	WM17403	—	—	271-2326-ND	80.77	76.74	72.70	68.65	GLC75DG
Single Output - GLC110 Series (See Amperage Rating Notes Below)																	
110	12 12 24	—	6.3 6.3 3.2	9.1 9.1 4.6	9.5 9.5 5	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2203-ND 271-2300-ND◆ 271-2303-ND◆	80.41 80.41 80.41	76.39 76.39 76.39	72.38 72.38 72.38	68.35 68.35 68.35	GLC110-12 GLC110-12G GLC110-24G
Double Output - GLC110 Series (See Amperage Rating Notes Below) — RoHS Compliant																	
110	12 -12	—	6.3 2.5	9.1 3	9.5 4	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2301-ND	86.46	82.14	77.81	73.49	GLC110-212G
110	15 -15	1 —	6.3 2.5	7.3 3	7.7 4	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2302-ND	86.46	82.14	77.81	73.49	GLC110-215G
110	24 5	1 —	3.2 1.5	4.6 2	5 2.5	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2304-ND	86.46	82.14	77.81	73.49	GLC110-524G
Chassis and Cover for GLC75 and GLC110 Multiple Output Series, 7.30” x 4.50” x 2.10” (185.42mm x 114.30mm x 53.34mm)												271-2297-ND	18.92	—	—	—	08-30466-2175G
Single Output - GPFC110 Series																	
110	5.1 12 15 15 24 28 48	—	12 6.7 5.3 5.3 3.4 2.9 1.7	—	20 10 8 8 5 4.3 2.5	6.3 x 3.75 x 1.62 (160.02 x 95.25 x 41.15)	A19953	A19957	A19990	—	—	271-2344-ND◆ 271-2339-ND◆ 271-2176-ND 271-2340-ND◆ 271-2341-ND◆ 271-2342-ND◆ 271-2343-ND◆	109.78 109.78 109.78 109.78 109.78 109.78 109.78	104.29 104.29 104.29 104.29 104.29 104.29 104.29	98.81 98.81 98.81 98.81 98.81 98.81 98.81	83.18 83.18 83.18 83.18 83.18 83.18 83.18	GPFC110-5G GPFC110-12G GPFC110-15 GPFC110-15G GPFC110-24G GPFC110-28G GPFC110-48G
Cover for GPFC110 Series, 6.30” x 3.75” x 1.75” (160.02mm x 95.25mm x 44.45mm)												271-1133-ND	18.92	—	—	—	08-30466-2110
Cover for GPFC110 Series, 6.30” x 3.75” x 1.75” (160.02mm x 95.25mm x 44.45mm)												271-2296-ND◆	18.92	—	—	—	08-30466-2110G
GPFC125 Series ‡																	
125	5 12 12† -12	2A+V4 Current	9 4 2.5 0.3	16 7 4 1	—	6.00 x 3.50 x 1.50 (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2345-ND◆	193.92	184.22	174.53	164.83	GPFC125AG
125	5 12 12† -5	2A+V4 Current	9 4 2.5 0.3	16 7 4 1	—	6.00 x 3.50 x 1.50 (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2346-ND◆	193.92	184.22	174.53	164.83	GPFC125BG
125	5 24 12† -12	2A+V4 Current	9 3 2.5 0.3	16 4.5 4 1	—	6.00 x 3.50 x 1.50 (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2347-ND◆	193.92	184.22	174.53	164.83	GPFC125DG
125	5 3.3 12† -12	2A+V4 Current	9 7 2.5 0.3	16 10 4 1	—	6.00 x 3.50 x 1.50 (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2218-ND 271-2348-ND◆	193.92 193.92	184.22 184.22	174.53 174.53	164.83 164.83	GPFC125G GPFC125GG
Cover for GPFC125												271-2220-ND	18.92	—	—	—	08-30466-2125
Single Output - GPFC160 Series																	
160	5.1 5.1 12 12 24	—	26 26 11.7 11.7 5.8	—	—	7.00 x 4.50 x 1.69 (177.80 x 114.30 x 42.93)	WM2125	WM17400	WM17403	WM2013	WM2200	271-2351-ND◆ 271-1119-ND 271-2349-ND◆ 271-2350-ND◆	198.68 198.68 198.68 198.68	188.75 188.75 188.75 188.75	178.83 178.83 178.83 178.83	168.90 168.90 168.90 168.90	GPFC160-5G GPFC160-12 GPFC160-12G GPFC160-24G
Cover with Fan for GPFC160 Series, 7.00” x 4.50” x 1.75” (177.80mm x 114.30mm x 44.45mm)												271-2298-ND◆	31.21	—	—	—	09-160CFG
Single Output - GNT 400 Series — RoHS Compliant																	
400	12 12 12 24 24 24 28 28 28 48 48 48	—	25 25 25 12.5 12.5 12.5 10.7 10.7 10.7 6.3 6.3 6.3	33.3 33.3 33.3 16.7 16.7 16.7 14.3 14.3 14.3 8.4 8.4 8.4	33.3 33.3 33.3 16.7 16.7 16.7 14.3 14.3 14.3 8.4 8.4 8.4	4.00 x 7.00 x 1.50 (101.60 x 177.80 x 38.1)	A24114	—	A19991	—	—	271-2483-ND 271-2484-ND 271-2485-ND 271-2486-ND 271-2487-ND 271-2488-ND 271-2489-ND 271-2490-ND 271-2491-ND 271-2492-ND 271-2493-ND 271-2494-ND	208.63 251.74 235.77 208.63 251.74 235.77 208.63 251.74 235.77 208.63 251.74 235.77	202.92 239.16 223.98 202.92 239.16 223.98 202.92 239.16 223.98 202.92 239.16 223.98	196.84 226.57 212.19 196.84 226.57 212.19 196.84 226.57 212.19 196.84 226.57 212.19	192.91 213.99 200.41 192.91 213.99 200.41 192.91 213.99 200.41 192.91 213.99 200.41	GNT412ABG GNT412CBEG GNT412ABTG GNT424ABG GNT424CBEG GNT424ABTG GNT428ABG GNT428CBEG GNT428ABTG GNT448ABG GNT448CBEG GNT448ABTG

* Floating fourth output can be referenced as either positive or negative. **Amperage Rating Notes for GLC75 and GLC110 Series: • Current A**: Rating with unrestricted convection cooling. Total power not to exceed 75W. • **Current B:** Rating with 26cfm forced air cooling. Total power not to exceed 110W. • **I Peak:** During peak load conditions output regulation may exceed specified limits. **†** Output 3 is isolated. Can be connected as + or - output. **‡** Peak rating or continuous rating with 150 LFM air cooling. **§** To maintain these regulation conditions, the 5.1V must be at least 1/4 of V2 and not greater than 5 times the V2 current Δ Requires 5.1V to be adjusted within ±1% with at least a 0.4A load to maintain regulation on this output. ◆ ***RoHS Compliant***

TOKO Power Supplies SW Series

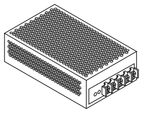

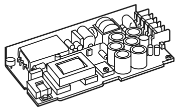

Features:
• Very low profile and small size • Wide Variation: 7 type 94 part number • Worldwide Input Voltage: all type 85VAC ~ 264VAC (continued) • High Dialectic Strength: 2000VAC between input and output • Safety Standards: Designed to meet UL1950(D3)

General Specifications:
• Frequency Range: 47 ~ 63Hz **• Inrush Current:** 5V~15V = 30/60A; 30V~100V = 45/90A **• Ripple Voltage (maximum):** 5V ~ 12V: 120mVpp; 15V: 150mVpp; 24V: 200mVpp; 48V: 400mVpp: **• Overall Output Regulation:** 3% **• Overload Protection:** +105% of rated current, automatic recovery **• Dielectric Strength:** 2.0KVAC for 1 minute applied between input/output **• Insulation Resistance:** 100mΩ between output/frame and input/output, measured with a 500 VDC tester **• Operating Temperature:** 0°C ~ 60°C **• Operating Humidity:** 30% ~ 85% RH **• Weight:** SW30: 250g; SW50: 400g; SW100: 600g

Input Volt. (Vac)	Output Volt.(s)	Output Current	Dim. (mm) H x D x W	Digi-Key Part No.	Price Each 1	50	Toko Part No.
Output Power — 30 Watts — Open Frame							
85-264	24V	1.33A	97 x 114 x 25.4	TS9996-ND	67.34	58.36	SW30-24F
Output Power — 100 Watts — Enclosed Frame							
85-264	5V	20.0A	97x194x35	TS9864-ND	164.77	—	SW100-05C

bel POWER PRODUCTS

Isolated POL DC/DC Converter Bricks Industry Standard Sizes

Features: • Remote On/Off • Over Current Protection (OCP) • Short Circuit Protection (SCP) • Under Voltage Lockout (UVLO)
Electrical Specifications: • Operating Temperature: -40°C ~ 85°C • Remote On/Off: Active High or Low (See data sheet)

Brick Size	Mounting Type	Output Power (W)	Output Voltage (V)	Output Current (A)	Input Voltage (VDC)	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	25	Bel Part No.
1/16	SMD	60	5	12	36 ~ 75	1.3 (33.02)	.9 (22.86)	.364 (9.24)	507-1382-ND◆	39.50	36.54	34.57	SRSB-50T050G
1/8	Thru-Hole	140	12	12	36 ~ 60	2.3 (58.42)	.896 (22.76)	.41 (10.41)	507-1121-ND	42.70	39.50	37.37	07CR-12S12LG
1/8	Thru-Hole	85	3.3	25	36 ~ 75	2.3 (58.42)	.896 (22.76)	.395 (10.03)	507-1392-ND◆	53.50	49.49	46.82	0RCY-85T03LG

◆ *RoHS Compliant*

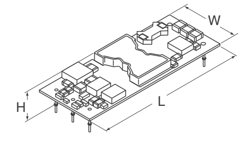

1/8 Brick Thru-Hole Shown

Arrowhead Series Non-Isolated POL DC/DC Converters

Electrical Specifications:
- Operating Temperature: -40°C ~ 85°C • Output Voltage Trim: Voltage set-point adjustment with use of a resistor (See data sheet)

Features:
- Over Current/Short Circuit Protection (OCP/SCP) ***Note:*** All specifications are typical at 25°C, unless otherwise noted.

Dim. in inch (mm)

Fig. 1

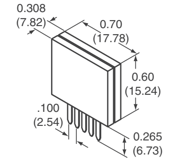

Fig. 2

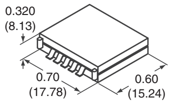

Fig.	Output Voltage (VDC)	Output Current Max. (Aout)	Input Voltage (VDC)	Features / Options Remote On/Off	Input Under Voltage Lock-out (UVLO)	Over-Voltage Pro-tection (OVP)	Digi-Key Part No.	Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Pricing 200	Bel Part No.
							Single Output Voltage						
1	1.8	12	3.0 ~ 5.5	X	X	—	507-1141-5-ND	15.30	14.16	13.39	—	—	V7AH-12F1800
2	1.8	12	3.0 ~ 5.5	X	X	—	507-1124-5-ND	15.30	14.16	13.39	—	—	S7AH-12F1800
1	2.5	12	3.6 ~ 5.5	X	X	—	507-1142-5-ND	15.30	14.16	13.39	—	—	V7AH-12F2500
1	5.0	1.5	3.0 ~ 3.6	—	—	X	507-1144-5-ND†	11.70	10.83	10.24	—	—	V7AH-02C50B0
1	5.0	1.5	3.0 ~ 3.6	—	—	X	507-1379-5-ND◆†	11.70	10.83	10.24	—	—	VRAH-02C50B0
1	12	0.8	3.0 ~ 3.6	—	—	X	507-1145-5-ND	12.50	11.57	10.94	—	—	V7AH-01CX200
2	12	0.8	3.0 ~ 3.6	—	—	X	507-1128-5-ND	12.50	11.57	10.94	—	—	S7AH-01CX200
1	15	0.6	3.0 ~ 3.6	—	—	X	507-1146-5-ND	12.50	11.57	10.94	—	—	V7AH-01CX500
							Adjustable Output Voltage						
1	0.9 ~ 3.3	8	4.5 ~ 5.5	X	X	—	507-1148-5-ND	13.90	12.86	12.17	—	—	V7AH-08B1A00
2	0.9 ~ 3.3	8	4.5 ~ 5.5	X	X	—	507-1131-1-ND	13.90	12.86	12.17	507-1131-2-ND	2085.00	S7AH-08B1A0R
2	0.9 ~ 3.3	8	4.5 ~ 5.5	X	X	—	507-1377-1-ND◆	13.90	12.86	12.17	507-1377-2-ND◆	2085.00	SRAH-08B1A0R
1	0.9 ~ 3.63	2	10.8 ~ 13.2	X	X	—	507-1149-5-ND	6.70	6.20	5.87	—	—	V7AH-02A1A00
							Wide Range Input Voltage						
2	1.2	3	4.5 ~ 32	X	X	—	507-1133-5-ND	13.90	12.86	12.17	—	—	S7AH-03H1200
2	1.2	3	4.5 ~ 32	X	X	—	507-1373-5-ND◆	13.90	12.86	12.17	—	—	SRAH-03H1200
2	2.5	3	4.5 ~ 32	X	X	—	507-1136-5-ND	13.90	12.86	12.17	—	—	S7AH-03H2500
2	2.5	3	4.5 ~ 32	X	X	—	507-1374-5-ND◆	13.90	12.86	12.17	—	—	SRAH-03H2500
1	3.3	3	4.9 ~ 32	X	X	—	507-1380-5-ND◆	13.90	12.86	12.17	—	—	VRAH-03H3300
2	3.3	3	4.5 ~ 32	X	X	—	507-1137-1-ND	13.90	12.86	12.17	507-1137-2-ND	2085.00	S7AH-03H330R
2	3.3	3	4.9 ~ 32	X	X	—	507-1375-1-ND◆	13.90	12.86	12.17	507-1375-2-ND◆	2085.00	SRAH-03H330R
1	5	3	8 ~ 32	X	X	—	507-1381-5-ND◆	13.90	12.86	12.17	—	—	VRAH-03H5000
2	5	3	8 ~ 32	X	X	—	507-1376-1-ND◆	13.90	12.86	12.17	507-1376-2-ND◆	2085.00	SRAH-03H500R

◆ ***RoHS Compliant*** † Burst/skip mode disabled

Bobcat Series Non-Isolated POL DC/DC Converters

Electrical Specifications:
- Operating Temperature: -40°C ~ 85°C • Output Voltage Trim: Voltage set-point adjustment with use of a resistor (See data sheet)

Features:
- Input under voltage lockout (ULVO) • Over Current/Short Circuit Protection (OCP/SCP) • Output voltage sequencing — These modules include a sequencing feature that enables users to implement various types of output voltage sequencing in an application. This is accomplished via an additional sequencing pin. When the sequencing feature is not used, tie the SEQ pin to the input voltage.

Note: All specifications are typical at 25°C, unless otherwise noted.

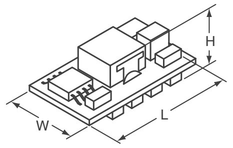

Output Power Max. (W)	Output Voltage (VDC)	Output Current Max. (Aout)	Input Voltage Range (VDC)	Features / Options Remote Sense	Over Temp. Protection (OTP)	Dimensions Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	25	Bel Part No.
15	0.75 ~ 5	3	8.3 ~ 14	—	—	0.8 (20.3)	0.45 (11.4)	0.251 (6.4)	507-1388-ND◆	8.50	7.87	7.44	SRBA-03A1A0G
30	0.75 ~ 5	6	4.5 ~ 14	—	—	0.8 (20.3)	0.45 (11.4)	0.251 (6.4)	507-1162-ND	11.70	10.83	10.24	S7BA-06E2ALG
30	0.75 ~ 5	6	4.5 ~ 14	—	—	0.8 (20.3)	0.45 (11.4)	0.251 (6.4)	507-1378-ND◆	11.70	10.83	10.24	SRBA-06E2ALG
30	0.75 ~ 5	6	8.3 ~ 14	—	X	0.8 (20.3)	0.45 (11.4)	0.251 (6.4)	507-1163-ND	11.70	10.83	10.24	S7BA-06A2ALG
33	0.75 ~ 5.5	6	8.3 ~ 14	—	—	0.8 (20.3)	0.45 (11.4)	0.251 (6.4)	507-1389-ND◆	11.70	10.83	10.24	SRBA-06A2A0G
50	0.75 ~ 5	10	8.3 ~ 14	X	X	1.3 (33.02)	0.53 (13.46)	0.315 (8)	507-1390-ND◆	15.00	13.88	13.13	SRBC-10A2A0G
80	0.75 ~ 5	16	8.3 ~ 14	X	X	1.3 (33.02)	0.53 (13.46)	0.315 (8)	507-1391-ND◆	17.90	16.56	15.67	SRBC-16A2A0G

◆ ***RoHS Compliant***

Non-Isolated POL DC/DC Converters

Features: • Over current and short circuit protection (OCP/SCP) • Remote on/off • Power good signal (VRP1 and VRP2 series) • Auto-track sequencing (ORLB series) • Margin up/down controls (ORLB series)
Specifications: • Operating temperature range: 0°C ~ 70°C • Output voltage trim (See data sheet)

Fig. 1

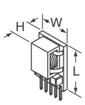

Fig. 2

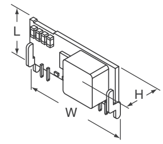

Fig. 3

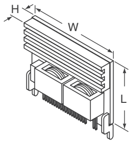

Fig. 4

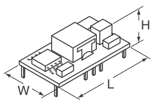

Fig. 5

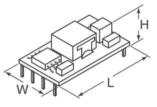

Fig.	Output Power Max. (W)	Output Voltage (VDC)	Output Current Max. (Aout)	Input Voltage (VDC)	Features / Options Input Under Voltage Lockout (UVLO)	Over Voltage Protection (OVP)	Dimensions Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	25	Bel Part No.
1	50	.59 ~ 5.1	10	4.5 ~ 13.8	X	—	.65 (16.51)	.41 (10.41)	.32 (8.13)	507-1384-ND	9.50	8.79	8.32	VRAE-10E1A0G
2	100	.59 ~ 5.1	20	4.5 ~ 13.8	—	X	.51 (15.49)	1.45 (36.83)	.4 (10.15)	507-1387-ND	19.70	18.23	17.24	VRP1-20E1A0G
3	200	0.6 ~ 5	40	5 ~ 13.8	—	X	1.1 (27.94)	1.45 (36.83)	.377 (9.58)	507-1383-ND	35.70	33.03	31.24	VRP2-40E1A0G
4	79	0.8 ~ 3.6	22	4.5 ~ 5.5	X	—	1.495 (37.97)	.87 (22.1)	.354 (9.00)	507-1385-ND	20.80	19.24	18.20	ORLB-22B1A0G
5	20	0.8 ~ 3.3	6	4.5 ~ 5.5	X	—	.87 (22.1)	.495 (12.57)	.354 (9.00)	507-1386-ND	14.80	13.69	12.95	ORLE-06B1A0G

DC/DC Converters
Single, Dual and Triple Output

NV Series: Low profile, single and dual output, DC/DC converters intended for SMT placement and reflow soldering. The product provides on-board conversion for a wide range of standard telecom and datacom input voltages to isolated low output voltages. **Features:** • Wide input range • Wide output range • Operating temperature to 110°C • Extremely small footprint

DSP1N5S Series: • Up to 1 watt unregulated output power • Single in-line package • Four terminal operation • Efficiencies to 75% • 350kHz fixed frequency operation • 700V isolation • -25°C ~ 85°C operation

RNS Series: Industry standard, 2” x 1” size, low profile, single output, DC/DC converters intended for SMT placement and reflow soldering. Provides on-board conversion of a wide range of input voltages to isolated low output voltages without the need for any additional cooling. **Features:** • Synchronization function • Low profile – 8.5mm height • Input/output isolation: 1500VDC • Wide input range • Output overcurrent protection • Output voltage trim adjust, positive or negative

NDS Series: • Low conducted and radiated EMI • Output overcurrent protection • Remote shutdown (primary referenced) • Output voltage trim adjust, positive or negative • Small PCB footprint

SIS03V Series: Thru-hole mount, low cost, non-isolated single output DC/DC converters. Provide point of load conversion of a single 5V input voltage into a regulated low output voltage with up to 3A of output current. Remote ON/OFF and output trim functions. High efficiency, low cost, high reliability and board-saving vertical mounting option make these converters excellent choice for powering ASICs in distributed power architecture.

RDS Series: • Low Profile SMT design • Input/output isolation: 1500Vdc • High current density • Operating temperature to 100°C • Output voltage trim adjust, positive, or negative • 8.5mm height

RFS Series: Low profile, single output, DC/DC converters intended for SMT placement and reflow soldering. The product provides on-board conversion of standard telecom and datacom input voltages to isolated low output voltages **Features:** • Low profile SMT design • Input/output isolation: 1500VDC • Operating temperature to 100°C • Output voltage trim adjust, positive or negative • Provides on-board conversion of standard telecom and datacom input voltages to isolated low output voltages

SIS07V: Thru-hole mount, low-cost, non isolated single-output DC/DC converters. The products provide point of load conversion of a single 5V input voltage into a regulated low output voltage with up to 7A of output current. The converters also feature remote ON/OFF and output trim functions. High efficiency, low cost, high reliability and board-saving vertical mounting option make these converters excellent choice for powering ASICs in distributed power architecture.

DFA6UxxS Series: • Up to 6 watts of output power • Overcurrent protection • Efficiencies to 83% • Low input to output capacitance • 700V Isolation, input to output • Ultra-wide input range (3:1)

DFC6U5S Series: • Ultra-wide 3.5 ~ 16 volt input range • Input filtered • 6 watts of output power • Efficiencies to 77% • 700V Isolation • Low input to output capacitance and Ultra-wide input range (4:1)

DFC10E Series: • High power density, up to 11 watts per cubic inch (0.67 watts per cm^3) • Efficiencies to 83% (lower for 3.3V) • Low input to output capacitance • 700V Isolation (1544V for 48V converters) • Continuous overcurrent protection • Five-sided shielded copper case • Extended input range (2:1)

QBC Series: High density bus converters convert a worldwide telecom bus voltage of 36 to 75VDC to a 12V bus at 11A. **Features:** • Low profile – 11mm height • Low conducted and radiated EMI • Output overcurrent protection • Output overvoltage protection • Remote Sense • Remote on/off (primary referenced), positive or negative logic

QLS Series: Highly efficient, cost effective, low profile, single-output DC/DC converters in an industry standard, quarter-brick footprint. Applications: • Distributed power architectures • Telecommunications equipment • LAN/WAN • Data processing **Features:** • Low profile – 0.390” (9.9mm) • Input/output isolation: 1500VDC, basic insulation

QHS Series: • Low Profile – 12.7mm height • Negative logic • Output voltage trim adjust

Dimensions Inches (mm)

Fig. 1

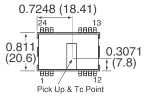

1. +Vin
2. -Vin
3. -Vin
4. No Pin
5. No Pin
6. No Pin
7. No Pin
8. No Pin
9. NC
10. NC
11. -Vo
12. -Vo
13. +Vo
14. +Vo
15. +Vo
16. -Vo
17. No Pin
18. No Pin
19. No Pin
20. No Pin
21. No Pin
22. +Vin
23. +Vin
24. -Vin

Fig. 2

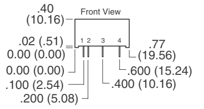

1. +Input
2. -Input
3. -Out
4. +Out

Output filtering is required for operation 10µf min.

Fig. 3

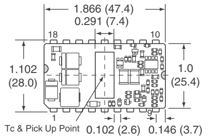

1. +Vout
2. -Vout
3. NC
4. NC
5. NC
6. NC
7. Sync
8. Trim
9. NOR
10. TOA
11. RC
12. NC
13. NC
14. NC
15. NC
16. NC
17. -Vin
18. +Vin

Fig. 4

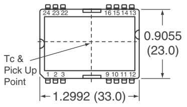

1. Shut-down
2. -Vin
3. NC
4. No Pin
5. No Pin
6. No Pin
7. No Pin
8. No Pin
9. NC
10. NC
11. NC
12. Trim
13. +Vout
14. -Vout
15. NC
16. NC
17. No Pin
18. No Pin
19. No Pin
20. No Pin
21. No Pin
22. NC
23. +Vin
24. NC

Fig. 5

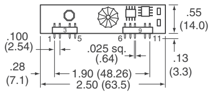

1. Vo+
2. Vo+
3. Vo+ sense (option)
4. Vo+
5. Gnd
6. Gnd
7. Vin+
8. Vin+
9. No pin
10. Trim
11. On/Off

Fig. 6

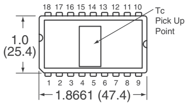

1. +Vout
2. -Vout
3. Trim
4. NC
5. NC
6. NC
7. NC
8. NC
9. NC
10. NC
11. Shutdown
12. NC
13. NC
14. NC
15. NC
16. NC
17. -Vin
18. -Vin

Fig. 7

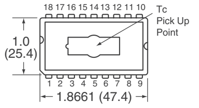

1. +Vout
2. -Vout
3. Trim
4. NC
5. NC
6. NC
7. NC
8. NC
9. NC
10. NC
11. Shutdown
12. NC
13. NC
14. NC
15. NC
16. NC
17. -Vin
18. -Vin

Fig. 8

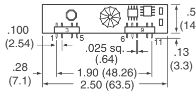

1. Vo+
2. Vo+
3. Vo+ sense (option)
4. Vo+
5. Gnd
6. Gnd
7. Vin+
8. Vin+
9. No pin
10. Trim
11. On/Off

Fig. 9

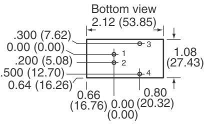

1. +Input
2. – Input
3. +Out
4. –Out

Fig. 10

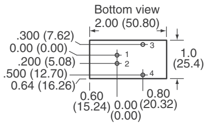

1. +Input
2. – Input
3. +Out
4. –Out

Fig. 11

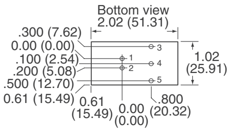

DFC10E Series
1. +Input
2. -Input
3. +Out
4. No Pin
5. -Out

DFC10U Series (shown)
1. +Input
2. -Input
3. +Out
4. Common
5. -Out

Fig. 12

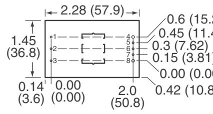

1. -Vin
2. On/Off
3. +Vin
4. -Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each				Power-One Part No.
					1	10	25	50	
Single Output									
1	3.3	0.9	9 ~ 36	179-2188-ND	48.00	44.00	40.00	36.00	NVS0.9CE-M6
	3.3	0.9	9 ~ 36	179-2352-ND◆	51.84	47.52	43.20	38.88	NVS0.9CE-M6G
	3.3	0.9	18 ~ 75	179-2187-ND	48.00	44.00	40.00	36.00	NVS0.9EE-M6
	5	0.7	18 ~ 75	179-2189-ND	48.00	44.00	40.00	36.00	NVS0.7EG-M6
	5	0.7	18 ~ 75	179-2351-ND◆	51.84	47.52	43.20	38.88	NVS0.7EG-M6G
2	5	0.15	4.5 ~ 5.5	179-1068-ND	18.15	17.60	17.05	15.68	DSP1N5S5
	7	0.14	4.5 ~ 5.5	179-1069-ND	18.15	17.60	17.05	15.68	DSP1N5S7
	12	0.08	4.5 ~ 5.5	179-1070-ND	18.15	17.60	17.05	15.68	DSP1N5S12
	14	0.07	4.5 ~ 5.5	179-1071-ND	18.15	17.60	17.05	15.68	DSP1N5S14
	15	0.065	4.5 ~ 5.5	179-1072-ND	18.15	17.60	17.05	15.68	DSP1N5S15
	17	0.06	4.5 ~ 5.5	179-1073-ND	18.15	17.60	17.05	15.68	DSP1N5S17
3	3.3	1.5	18 ~ 72	179-2209-ND	60.15	56.24	51.00	45.77	RNS01EE-M6
	3.3	3.0	38 ~ 75	179-2210-ND	60.15	56.24	51.00	45.77	RNS03ZE-M6
	5	2.0	38 ~ 75	179-2211-ND	60.15	56.24	51.00	45.77	RNS02ZG-M6
4	2.5	3.0	36 ~ 75	179-2192-ND	51.00	46.00	42.00	39.00	NDS03ZD-M6
	3.3	3.0	36 ~ 75	179-2191-ND	51.00	46.00	42.00	39.00	NDS03ZE-M6
	5	2.0	36 ~ 75	179-2190-ND	51.00	46.00	42.00	39.00	NDS02ZG-M6
5	1.2	3.0	4.5 ~ 5.5	179-2197-ND	27.00	24.00	22.00	21.00	SIS03VY
	1.5	3.0	4.5 ~ 5.5	179-2193-ND	25.00	22.00	20.00	19.00	SIS03VA
	2.5	3.0	4.5 ~ 5.5	179-2195-ND	25.00	22.00	20.00	19.00	SIS03VD
	3.3	3.0	4.5 ~ 5.5	179-2196-ND	25.00	22.00	20.00	19.00	SIS03VE
6	3.3	5.0	36 ~ 75	179-2206-ND	48.60	45.36	41.04	37.80	RDS05ZE-M6
	5	4.0	36 ~ 75	179-2204-ND	48.60	45.36	41.04	37.80	RDS04ZG-M6
7	2.5	6.0	36 ~ 75	179-2202-ND	79.95	74.48	69.00	62.43	RFS06ZD-M6
	3.3	6.0	36 ~ 75	179-2203-ND	79.95	74.48	69.00	62.43	RFS06ZE-M6
8	1.5	7.0	4.5 ~ 5.5	179-2198-ND	27.00	24.00	22.00	21.00	SIS07VA
	1.8	7.0	4.5 ~ 5.5	179-2199-ND	27.00	24.00	22.00	21.00	SIS07VB
8	2.5	7.0	4.5 ~ 5.5	179-2200-ND	27.00	24.00	22.00	21.00	SIS07VD
	3.3	7.0	4.5 ~ 5.5	179-2201-ND	27.00	24.00	22.00	21.00	SIS07VE
9	5	1	9 ~ 27	179-1005-ND	76.91	73.77	70.62	67.99	DFA6U12S5
	5	1	20 ~ 60	179-1008-ND	76.91	73.77	70.62	67.99	DFA6U48S5
	12	0.5	20 ~ 60	179-1009-ND	73.25	70.25	67.25	64.75	DFA6U48S12
	15	0.4	9 ~ 27	179-1007-ND	76.91	73.77	70.62	67.99	DFA6U12S15
10	5	1.2	3.5 ~ 16	179-1001-ND	76.00	73.04	69.77	67.40	DFC6U5S5
	5.2	1.2	3.5 ~ 16	179-1002-ND	70.40	67.65	64.63	62.43	DFC6U5S5.2
	12	0.5	3.5 ~ 16	179-1003-ND	76.00	73.04	69.78	67.40	DFC6U5S12
11	5	2	9 ~ 18	179-1011-ND	90.43	88.54	86.33	84.43	DFC10E12S5
	5	2	18 ~ 36	179-1012-ND	90.43	88.54	86.33	84.43	DFC10E24S5
	12	0.9	9 ~ 18	179-1014-ND	90.43	88.54	86.33	84.43	DFC10E12S12
	12	0.9	18 ~ 36	179-1016-ND	75.07	73.50	71.67	70.09	DFC10E24S12
	15	0.7	9 ~ 18	179-1015-ND	75.07	73.50	71.67	70.09	DFC10E12S15
	15	0.7	18 ~ 36	179-1017-ND	75.07	73.50	71.67	70.09	DFC10E24S15
	5	2	36 ~ 72	179-1013-ND	90.43	88.54	86.33	84.43	DFC10E48S5
12	12	11.0	36 ~ 75	179-2223-ND	52.80	51.70	50.60	49.50	QBC11ZH-NT
12	1.5	30.0	36 ~ 75	179-2228-ND	117.70	111.10	104.51	101.21	QLS30ZA-NT
	2.5	15.0	36 ~ 75	179-2225-ND	84.00	74.55	69.30	64.06	QLS15ZD-NT
	5	12.0	36 ~ 75	179-2224-ND	84.00	74.55	69.30	64.06	QLS12ZG-NT
	5	20.0	36 ~ 75	179-2227-ND	117.70	111.10	104.51	101.21	QLS20ZG-NT
13	1.5	50.0	36 ~ 75	179-2234-ND	155.25	135.70	120.75	112.70	QHS50ZA-NT
	1.8	40.0	36 ~ 75	179-2231-ND	135.00	118.00	105.00	98.00	QHS40ZB-NT
	2.5	40.0	36 ~ 75	179-2232-ND	155.25	135.70	120.75	112.70	QHS40ZD-NT
	3.3	40.0	36 ~ 75	179-2233-ND	135.00	118.00	105.00	98.00	QHS40ZE-NT

◆ ***RoHS Compliant*** § 600mA ***Note:*** “N” in suffix of part number denotes Negative Logic; “3” in suffix of part number denotes Trim and Enable

(Continued)

DC/DC Converters

Single, Dual and Triple Output *(Cont.)*

DFA20ExxS Series: • Remote On/Off and Trim • Overcurrent protection and thermal shutdown • Efficiencies to 83% • 700V Isolation up to 1544V on 48V converters • Power density up to 11 watts per cubic inch • Five-sided shielded case • Extended range input (2:1)

DGP12U5S Series: • Up to 12 watts output power • Five-sided shielded isolated copper case • Ultra-wide 3.5 ~ 16 volt input range • Efficiencies to 82% • Fully isolated and filtered • 700V isolation • Remote On/Off and Trim

DFC15U48S Series: • High power density, up to 11 watts per cubic inch (0.67 watts per cm^3) • Efficiencies to 83% (lower for 3.3V) • Low input to output capacitance • 700V Isolation (1544V for 48V converters) • Continuous overcurrent protection • 3.3V output available • Five-sided shielded copper case • Extended input range (2:1)

LES Series – 15W Single Output: Up to 1500VDC isolation • Short circuit and over temperature protection • Six-sided shielding • Available with optional enable and voltage trim pins • Water washable • Remote shutdown • 24V and 48V inputs • Industry standard package. • ±10% minimum amperage output current • ±10% voltage trim range

IES Series – 13W ~ 20W Single Output: Ultra high efficiency • 1500V isolation • Output voltages of 5V and below and up to 20W output power • Remote shutdown • On board functions include over volt. protection (OVP) and under voltage lock-out (UVLO) • 24V and 48V input • Output current 10% min. • Open frame package or 6-sided case • Water washable

HAS Series – 20W ~ 30W Single Output: • Up to 30W of output power • ±10% output volt. trim range • Remote shutdown • Advanced open frame technology • Water washable • UL 1950, CSA22.2-950, EN60950 safety (consult factory for conditions) • Case temperature operating range -40°C ~ 100°C

HLS Series: • Output overcurrent protection • Output overvoltage protection • Overtemperature protection • Remote on/off (primary referenced), positve logic

Q48T300xx Series: Through-hole mounted DC/DC converter. In telecommunications applications the Q Family 30A Converters provide thermal performance that far exceeds all quarter bricks and is comparable even to existing half-bricks

QL48T30012 Series: • Delivers up to 30A • High efficiency: 81% at 30A, 83% at 15A • No minimum load required • No heatsink required

SQ48T Series: SemiQ Family of DC/DC converters from di/dt provides a high efficiency single output in a size that is only 60% of industry-standard quarter bricks, while preserving the same pinout and functionality. With a standard pinout and trim equations, the SQ48 Series converters are perfect drop-in replacements for existing quarter brick designs.

Features: • Industry-standard quarter brick pinout • Extremely small footprint: 0.896" x 2.30" (2.06 in^2) • High efficiency – no heatsink required • No minimum load required

HBS Series – 33W ~ 150W Single Output: • High efficiency • Open frame design • Water washable • Remote shutdown • ±10% output voltage trim range • ±10% minimum output current • Case temperature operating range -40°C ~ 100°C • UL 1950, CSA 22.2-950, EN60950 safety (consult factory for conditions) • Current can be drawn from any single output to its maximum rated value, or from both to a combined total of 15A

HBC Series: • High efficiency up to 94% • Low conducted and radiated EMI • Output overcurrent protection • Output overvoltage protection • Overtemperature protection

QES Series - 66W Single Output: • Industry standard, quarter-brick package • Optional trim and enable • Case temperature operating range -40°C ~ 100°C • Wide range input voltage • Open-frame packaging with planar magnetics and high efficiency topology • Units are water-washable and compatible with commercial spray or immersion • 1500V isolation

QBS Series - 120W Single Output: • Quarter-brick footprint • High power density up to 120W • Open-frame packaging • 100°C baseplate operation • Outputs from 2.5V ~ 15V • 1500V isolation • Water washable • Positive or negative enable logic • Voltage trim range ±10 • Switching frequency at 400kHz • UL, CUL, TUV safety

HHS Series: • Low profile (12.7mm) • Output overcurrent protection • Output overvoltage protection • Overtemperature protection • Remote On/Off (primary referenced), positive logic

Dimensions Inches (mm)

Fig. 13

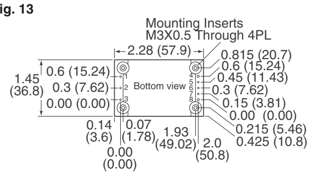

1. -Vin
2. On/Off
3. +Vin
4. -Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

Fig. 14

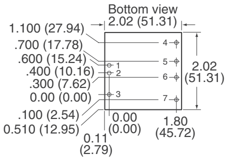

DFA20ExxD and DGP12U5D Series

1. +Input
2. -Input
3. On/Off
4. +Output
5. Common
6. -Output
7. Trim

DFA20ExxS and DGP12U5S Series

1. +Input
2. -Input
3. On/Off
4. No Pin
5. +Output
6. -Output
7. Trim

Fig. 15

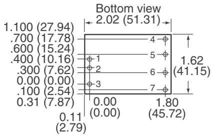

DFC15U48S Series

1. +Input
2. –Input
3. On/Off
4. No Pin
5. +Output
6. –Output
7. Trim

DFC15U48D Series

1. +Input
2. –Input
3. On/Off
4. +Output
5. Common
6. –Output
7. Trim

Fig. 16

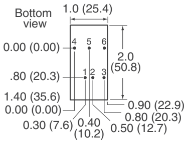

1. +V In
2. –V In
3. No Pin
4. +V Out
5. No Pin
6. –V Out

Fig. 17

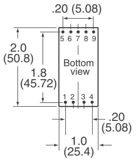

1. +V In
2. –V In
3. No Pin
4. Shutdown
5. +V Out
6. –V Out
7. Trim
8. No Pin
9. No Pin

Fig. 18

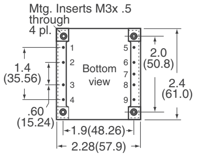

1. –V In
2. Case
3. On/Off
4. +V In
5. –V Out
6. –Sense
7. Trim
8. + Sense
9. +V Out

Fig. 19

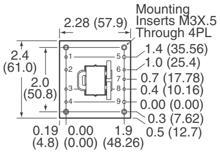

1. -Vin
2. Case Pin
3. On/Off
4. +Vin
5. -Vo
6. -Sense
7. Trim
8. +Sense
9. +Vo

Fig. 20

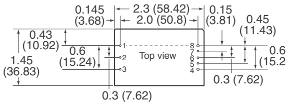

1. +Vin
2. On/Off
3. -Vin
4. -Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

Fig. 21

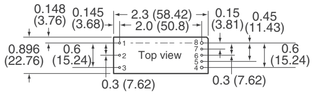

1. +Vin
2. On/Off
3. -Vin
4. +Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

Fig. 22

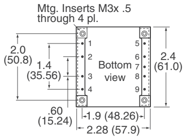

1. -V In
2. Case
3. On/Off
4. +V In
5. -V Out
6. -Sense
7. Trim
8. +Sense
9. +V Out

Fig. 23

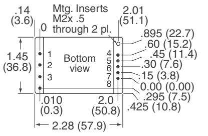

1. -V In
2. On/Off
3. +V In
4. -V Out
5. -Sense
6. Trim
7. +Sense
8. +V Out

Fig. 24

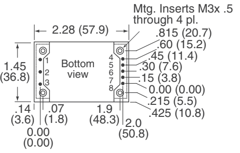

1. -V In
2. On/Off
3. +V In
4. -V Out
5. -Sense
6. Trim
7. +Sense
8. +V Out

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
14	5	4	9 ~ 18	179-1033-ND	133.45	128.40	121.44	115.12	DFA20E12S5
	5	4	18 ~ 36	179-1037-ND	110.78	106.59	100.81	95.56	DFA20E24S5
	12	1	3 ~ 16	179-1054-ND	118.69	113.84	109.33	104.82	DGP12U5S12
	15	1.4	9 ~ 18	179-1035-ND	110.78	106.59	100.81	95.56	DFA20E12S15
	15	1.4	18 ~ 36	179-1039-ND	110.78	106.59	100.81	95.56	DFA20E24S15
15	5	3	20 ~ 60	179-1027-ND	76.19	72.89	69.96	67.24	DFC15U48S5
16	3.3	3	18 ~ 36	179-2122-ND◆	66.00	62.76	59.50	56.01	LES010YE
	5	3	18 ~ 36	179-2124-ND◆	54.45	51.77	49.09	46.20	LES015YG
	5	3	36 ~ 75	179-2131-ND◆	67.00	63.75	60.50	57.25	LES015ZG-3N
	12	1.25	18 ~ 36	179-2126-ND◆	77.63	73.81	69.98	65.87	LES015YH
17	3.3	4	36 ~ 72	179-2135-ND	83.38	79.64	74.75	71.31	IES013ZE-A
	5	4	36 ~ 72	179-2136-ND	83.38	79.64	74.75	71.31	IES020ZG-A
18	5	10	18 ~ 36	179-2139-ND	100.25	97.75	94.51	88.75	HAS050YG-AN
	12	4.2	18 ~ 36	179-2140-ND	100.25	97.75	94.51	88.75	HAS050YH-AN
19	1.8	40.0	36 ~ 75	179-2249-ND	135.00	118.00	105.00	98.00	HLS40ZB-NT
	2.5	30.0	36 ~ 75	179-2246-ND	135.00	118.00	105.00	98.00	HLS30ZD-NT
	3.3	30.0	36 ~ 75	179-2247-ND	148.50	129.80	115.50	107.80	HLS30ZE-NT
	5	30.0	36 ~ 75	179-2248-ND	135.00	118.00	105.00	98.00	HLS30ZG-NT
20	1.5	30.0	36 ~ 75	179-2218-ND	58.77	57.75	56.40	55.38	Q48T30015-NBB0
	1.8	30.0	36 ~ 75	179-2219-ND	58.77	57.75	56.40	55.38	Q48T30018-NBB0
	2.50	30.0	36 ~ 75	179-2220-ND	58.77	57.75	56.40	55.38	Q48T30025-NBB0
	3.30	30.0	36 ~ 75	179-2221-ND	58.77	57.75	56.40	55.38	Q48T30033-NBB0
	1.20	30.0	36 ~ 75	179-2222-ND	109.40	107.50	104.98	103.08	QL48T30012-NBB0

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
21	1.20	15.0	36 ~ 75	179-2217-ND	46.46	45.38	44.29	43.56	SQ48T15012-NBB0
	1.50	15.0	36 ~ 75	179-2213-ND	46.46	45.38	44.29	43.56	SQ48T15015-NBB0
	1.80	15.0	36 ~ 75	179-2214-ND	46.46	45.38	44.29	43.56	SQ48T15018-NBB0
	2.50	15.0	36 ~ 75	179-2215-ND	46.46	45.38	44.29	43.56	SQ48T15025-NBB0
	3.30	15.0	36 ~ 75	179-2216-ND	46.46	45.38	44.29	43.56	SQ48T15033-NBB0
	5.0	10.0	36 ~ 75	179-2212-ND	46.46	45.38	44.29	43.56	SQ48T10050-NBB0
22	3.3	15	34 ~ 75	179-2143-ND	129.25	125.40	121.55	119.08	HBS050ZE-ANT
	3.3	30	34 ~ 75	179-2153-ND	133.49	131.25	129.00	126.50	HBS100ZE-ANT
	5	10	34 ~ 75	179-2144-ND	129.25	125.40	121.55	119.08	HBS050ZG-ANT
	5	20	34 ~ 75	179-2154-ND	133.49	131.25	129.00	126.50	HBS100ZG-ANT
	12	25.0	36 ~ 75	179-2239-ND	87.15	85.05	82.95	80.86	HBC25ZH-NT
	12	8.30	34 ~ 75	179-2155-ND	133.49	131.25	129.00	126.50	HBS100ZH-ANT
23	3.3	15	18 ~ 36	179-2162-ND	155.91	147.52	136.50	128.10	QES050YE-A
	3.3	15	36 ~ 75	179-2163-ND	155.92	147.53	136.50	128.10	QES050ZE-A
	3.3	15	36 ~ 75	179-2164-ND	148.50	140.50	130.00	122.01	QES050ZE-ANT
24	2.5	15	36 ~ 75	179-2168-ND	129.00	123.25	115.00	103.50	QBS038ZD-ANT
	5	20	36 ~ 75	179-2173-ND	124.25	116.25	107.01	99.00	QBS100ZG-ANT
19	1.80	60.0	36 ~ 75	179-2243-ND	152.95	151.80	150.66	147.20	HHS60ZB-NT
	2.50	60.0	36 ~ 75	179-2244-ND	152.95	151.80	150.66	147.20	HHS60ZD-NT
	3.30	60.0	36 ~ 75	179-2245-ND	152.95	151.80	150.66	147.20	HHS60ZE-NT
25	2.5	6.2	3.0 ~ 3.6	179-2181-ND	46.00	44.00	42.00	39.00	SIP302.5LT
	5	4	3.0 ~ 4.0	179-2185-ND	48.40	46.20	44.00	40.70	SIP305

◆ ***RoHS Compliant*** § 600mA ***Note:*** "N" in suffix of part number denotes Negative Logic; "3" in suffix of part number denotes Trim and Enable

(Continued)

M

DC/DC Converters
Single, Dual and Triple Output *(Cont.)*

SIP302/305 Series – 15W ~ 20W Single Output: • Non-isolated step-up • High efficiency • Excellent transient response • Perfect tool to augment 3.3V circuit boards with 5V • Open-frame construction • Vertical mounting • Water washable

RND Series: • Synchronization function • Low profile – 8.5mm height • Input/output isolation: 1500VDC • Low conducted and radiated EMI • Output overcurrent protection • Wide output voltage trim adjust, positive or negative • Operating temperature to 110°C • Industry standard, 2" x 1" size, low profile, dual output, DC/DC converters intended for SMT placement and reflow soldering

DFC10U Series: • High power density, up to 11 watts per cubic inch • Efficiencies to 79% • Fully isolated, fully filtered design • Greater than 700V Isolation • Overcurrent protection • Five-sided shielded copper case • Ultra-wide range input (4:1)

DFA20ExxD Series: • Remote On/Off and Trim • Water washable case • Overcurrent protection and thermal shutdown • Efficiencies to 85% • Low input to output capacitance • 700V ~ 1544V isolation • 5-sided shielded case • Extended range input (2:1)

DGP12U5D Series: • Remote On/Off and Trim • Five-sided shielded copper case • Typical efficiencies up to 78% • Fully isolated and filtered • 700V isolation • Ultra-wide range input (4:1)

DFC15U48D Series: • Remote On/Off and Trim • Overcurrent and overtemperature protected • Water washable case • Efficiencies to 82% • 1544V Isolation • Ultra-wide range input (>3:1)

DSP1N5D Series: • Up to 1 watt unregulated output power • Single in-line package • Four terminal operation • Efficiencies to 70% • Output voltages: 5V, 7V, 12V, 14V, 15V, 17V • 500V isolation • -25°C ~ 85°C operation

HHD Series: • Output voltage tracking • Output overcurrent protection • Output overvoltage protection • Overtemperature protection

HBD Series – 40W ~ 60W Dual Output: • High efficiency • High density • Independent +5 and +3.3 outputs • Remote shutdown • 10% minimum output current • Case temperature, operating range -40°C ~ 100°C • UL 1950, CSA22.2-950, EN60950 safety (consult factory for conditions) • Water washable • Open frame technology

QD48T Series: Dual output through-hole mounted DC/DC converter offers unprecedented performance in a quarter brick package by providing two independently regulated high current outputs. No minimum load required

TQD Series – 100W Dual Output: • Independent dual outputs • Flexible load sharing • Open frame design • Independent trims for each output • 1500VDC isolation • Baseplate operation 100°C • Input reverse voltage protection, shunt diode • Positive logic remote shutdown • Switching frequency is 250kHz • UL, CSA, EN60950 safety

DGP20ExxT Series – Triple Outputs: • Five-sided shielded case • Remote On/Off • Efficiencies to 84% • -40°C ~ 85°C operation • 700V isolation • Extended range input (2:1)

DFC25 Series – Triple Output: • Remote On/Off • Efficiencies to 81% • -25°C ~ 85°C operation • 700/1544V isolation • Common and differential mode input filters

Dimensions Inches (mm)

Fig. 25

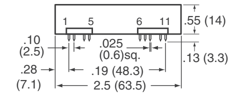

SIP302
1. +V Out
2. +V Out
3. No Pin
4. + V Out
5. Ground
6. Ground
7. +V In
8. +V In
9. No Pin
10. Trim
11. Remote

SIP305
1. +V Out
2. +V Out
3. +V Out
4. –V Out
5. –V Out
6. –V In
7. –V In
8. +V In
9. +V In
10. +V In
11. +V In

Fig. 26

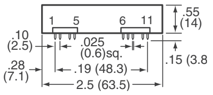

1. +V Out
2. +V Out
3. Sense
4. +V Out
5. Ground
6. Ground
7. +V In
8. +V In
9. Power OK
10. Trim
11. Enable

Fig. 27

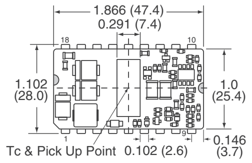

1. Vout1
2. Rtn
3. Vout2
4. NC
5. NC
6. NC
7. Sync
8. Trim
9. NOR
10. TOA
11. RC
12. NC
13. NC
14. NC
15. NC
16. NC
17. -Vin
18. +Vin

Fig. 28

1. +Input
2. –Input
3. –Out
4. Common
5. +Out

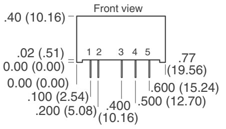

Fig. 29

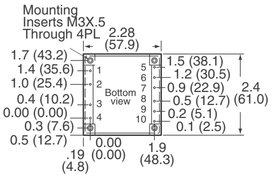

1. -Vin
2. Case
3. On/Off
4. +Vin
5. +Vo2
6. +Vo2 Rtn
7. Trim 2
8. +Vol 1
9. +Vol 1 Rtn
10. Trim 1

Fig. 30

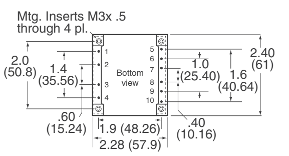

1. -V In
2. Case
3. On/Off
4. +V In
5. -V Out 2 (3.3V)
6. -V Out 2 (3.3V)
7. Trim 2
8. +V Out 1 (5V)
9. -V Out 1 (-5V)
10. Trim 1

Fig. 31

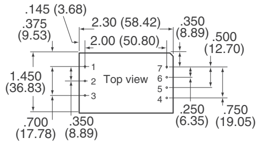

1. +Vin
2. On/Off
3. -Vin
4. +Vout1
5. RTN (-Vout1 and -Vout2)
6. Trim
7. +Vout2

Fig. 32

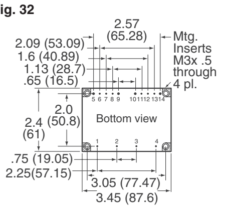

1. –V In
2. Enable
3. Case
4. +V In
5. +V Out 1
6. +Sense 1
7. Trim 1
8. –Sense 1
9. –V Out 1
10. –V Out 2
11. –Sense 2
12. Trim 2
13. +Sense 2
14. +V Out 2

Fig. 33

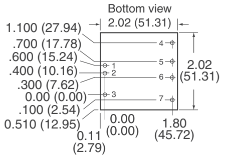

1. +Input
2. –Input
3. On/Off
4. +12/15V Out
5. +5V Output
6. Common
7. –12/15V Out

Fig. 34 ***NEW!***

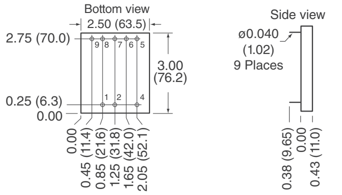

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
26	2.1	6	4.5 ~ 5.5	179-2182-ND	48.40	46.20	44.00	40.70	SIP502.1LT
	2.5	6	4.5 ~ 5.5	179-2183-ND	48.40	46.20	44.00	40.70	SIP502.5LT
	3.3	6	4.5 ~ 5.5	179-2184-ND	50.60	48.30	46.00	42.55	SIP503.3LT
Dual Output									
27	3.27/5.20	1.0/1.0	38 ~ 75	179-2208-ND	60.15	56.24	51.00	45.77	RND02ZGE-M6
	±12	0.42	36 ~ 75	179-2207-ND	60.15	56.24	51.00	45.77	RND0.8ZHH-M6
11	±5	±0.85	9 ~ 36	179-1021-ND	90.43	88.54	86.33	84.43	DFC10U24D5
	±12	±0.4	9 ~ 36	179-1022-ND	75.07	73.50	71.67	70.09	DFC10U24D12
	±15	±0.32	9 ~ 36	179-1023-ND	90.43	88.54	86.33	84.43	DFC10U24D15
	±15	±0.33	18 ~ 72	179-1026-ND	75.07	73.50	71.67	70.09	DFC10U48D15
14	±5	±1.7	18 ~ 36	179-1047-ND	110.78	106.59	100.81	95.56	DFA20E24D5
	±12	±0.5	3.5 ~ 16	179-1057-ND	118.69	113.84	109.33	104.82	DGP12U5D12
	±12	±0.85	9 ~ 18	179-1045-ND	133.45	128.40	121.44	115.12	DFA20E12D12
	±15	±0.4	3.5 ~ 16	179-1058-ND	118.69	113.84	109.33	104.82	DGP12U5D15
	±15	±0.7	9 ~ 18	179-1046-ND	133.45	128.40	121.44	115.12	DFA20E12D15
	±15	±0.7	18 ~ 36	179-1049-ND	133.45	128.40	121.44	115.12	DFA20E24D15
15	±15	±0.5	20-72	179-1031-ND	118.30	113.15	108.62	104.39	DFC15U48D15
28	±5	±0.075	4.5 ~ 5.5	179-1074-ND	18.15	17.60	17.05	15.68	DSP1N5D5
	±12	±0.04	4.5 ~ 5.5	179-1076-ND	18.15	17.60	17.05	15.68	DSP1N5D12

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
28	±14	±0.035	4.5 ~ 5.5	179-1077-ND	18.15	17.60	17.05	15.68	DSP1N5D14
	±15	±0.033	4.5 ~ 5.5	179-1078-ND	18.15	17.60	17.05	15.68	DSP1N5D15
	±17	±0.030	4.5 ~ 5.5	179-1079-ND	18.15	17.60	17.05	15.68	DSP1N5D17
29	3.3/2.5	25/20	36 ~ 72	179-2241-ND	132.00	129.80	127.60	124.30	HHD25ZED-N
	5.0/3.3	20/20	36 ~ 72	179-2240-ND	138.00	135.70	133.40	129.95	HHD20ZGE-N
30	5.0/3.3	8/12	18 ~ 36	179-2158-ND	165.83	144.38	130.35	122.94	HBD040YGE-A
	5.0/3.3	12/15	18 ~ 36	179-2160-ND	156.50	138.00	127.76	119.76	HBD060YGE-A
	5.0/3.3	8/12	34 ~ 75	179-2159-ND	150.75	131.25	118.50	111.75	HBD040ZGE-A
	5.0/3.3	12/15	34 ~ 75	179-2161-ND	91.48	80.67	74.68	70.00	HBD060ZGE-A
31	1.80/2.50	15.0	36 ~ 75	179-2237-ND	62.92	62.03	60.24	59.35	QD48T018025-NBB0
	1.80/3.30	15.0	36 ~ 75	179-2236-ND	62.92	62.03	60.24	59.35	QD48T018033-NBB0
	3.30.5.0	15.0	36 ~ 75	179-2238-ND	62.92	62.03	60.24	59.35	QD48T033050-NBB0
32	3.3/2.5	25/25	36 ~ 72	179-2175-ND	177.75	162.00	150.00	144.01	TQD085ZED-AN
	5.0/3.3	20/25	36 ~ 72	179-2177-ND	185.00	181.25	173.01	164.51	TQD100ZGE-AN
Triple Output									
33	5 ±15	2.5 ±0.250	18 ~ 36	179-1062-ND§	135.35	130.29	124.92	118.27	DGP20E24T5/15
34	5 ±15	5.0 ±0.800	18 ~ 36	179-2358-ND†	122.43	106.20	100.30	89.98	DFC25E24T5/15

◆ ***RoHS Compliant*** † ***NEW!*** § 600mA ***Note:*** "N" in suffix of part number denotes Negative Logic; "3" in suffix of part number denotes Trim and Enable

CompactPCI® Power Supply

Fully compliant to the PICMG® 2.11 power interface specification using a standard Positronic 47-pin connector. Patented EDGE™ Technology provides very high output current capacities. At 50°C the 3U units deliver 40 amps on both the +5 and +3.3 volt outputs.

Power Watts	Output 1	Output 2	Output 3	Output 4	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
250	+3.3V @ 40A	+5V @ 40A	+12V @5.5A	-12V @ 2A	90 ~ 264	179-2263-ND 179-2280-ND◆	414.75 373.28	393.75 354.38	378.00 340.20	357.00 321.30	CPA250-4530 CPA250-4530G

◆ ***RoHS Compliant***

Linear Power Supplies

Features:

• Worldwide AC input Capabilities • Meets domestic and foreign safety standards: UL, CSA, IEC, VDE, BPO, ECMA, CE • Low output ripple • Two hour burn-in

Overvoltage Protection Options:

Optional overvoltage protection modules are offered, each is user adjustable from 6.4V ~ 34V. Note: Outputs with factory built-in OVP are indicated in the Voltage/Current Rating Chart for each model.

General Specifications:

• AC Input: 100/120/220/240VAC +10%, -13%. 47-63Hz. Tolerance for 230VAC operation is +15%, -10%. Factory wired for 120V operation. • DC Output: Adjustment range ±5% minimum. Voltage non-adjustable on "3 terminal regulator" outputs • Line Regulation: ±.05% for a 10% line change. Exceptions: ±.01% for F case models, ±0.5% for all other outputs using "3 terminal regulators" • Load Regulation: ±.05% for a 50% load change. Exceptions: ±.02% for F case models, ±0.5% for all other outputs using "3 terminal regulators" • Output Ripple: 5V through 15V models: 5.0mV PK-PK maximum (3.0mV PK-PK maximum for F case models). 24V through 250V models: 3.0mV PK-PK plus .02% of output voltage, maximum. All "3 terminal regulator" outputs: 0.2% PK-PK maximum • Overvoltage Protection: Provided on 5V outputs where indicated. Set at 6.2V ±0.4%. Other outputs use optional overvoltage protectors OVP12/OVP12G and OVP24/OVP24G. • Operating Temperature: 0°C ~ 50°C full rated, derated linearly to 40% at 70°C • Efficiency: 5V outputs — 45%, 12V and 15V outputs — 55%, 24V through 250V outputs — 60% • Master/Slave Operation: Provided on F models only. For parallel operation of up to 6 units.

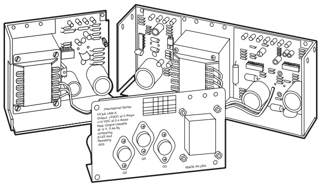

Safety Specifications:

All models exceed the following safety standards — Leakage Current Line to Ground (maximum): 0.05mA • Dielectric Withstand Voltage (minimum): Input to Ground — 3750VRMS, Input to Outputs — 3750VRMS, Outputs to Ground — 500VDC • 2 year warranty

Overvoltage Protection

Voltage Adjustment Range: 6.4 - 33VDC		
	Maximum Current Rating	
Model	**Intermittent**	**Continuous**
OVP-12G	12.0A	8.0A
OVP-24, OVP-24G	30.0A	20.0A

Dimensions – Inch (mm) Height x Width x Thickness	Digi-Key Part No.	Price Each 1	10	25	Power-One Part No.
1.50 x 1.55 x 0.56 (38.10 x 39.37 x 14.22)	179-2353-ND◆	12.34	12.03	11.72	OVP-12G
2.00 x 2.75 x 0.77 (50.80 x 69.85 x 19.56)	179-2354-ND◆	20.55	19.88	19.61	OVP-24G

◆ ***RoHS Compliant***

OVP SELECTION GUIDE		
Model	**Case Size**	**OVP Modules Required**
Single Output	B, C, N, D	(1) OVP-12, OVP-12G
	E, F	(1) OVP-24, OVP-24G
Dual Output	AA, B, BB, CC	(1) OVP-12, OVP-12G protects both outputs
	E	(1) OVP-24, OVP-24G protects both outputs
Triple Output	AA, BAA, D, CBB , DBB, DCC	(1) OVP-12, OVP-12G protects both 12V through 15V outputs

Case Size

Case	Overall Size – Inch (mm)	Weight
CBB	11.00 x 4.87 x 3.28 (279.40 x 123.70 x 83.31)	8 Lbs
D	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 Lbs
DBB	14.25 x 4.87 x 3.38 (361.95 x 123.70 x 85.85)	11 Lbs
DCC	15.00 x 4.88 x 4.55 (381.00 x 123.95 x 115.57)	12 Lbs
E	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 Lbs
F	16.75 x 4.88 x 5.00 (425.50 x 123.95 x 127.00)	19 Lbs
AA	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 Lbs
B	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 Lbs
BB	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 Lbs
BAA	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	5 Lbs
C	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 Lbs
CC	9.38 x 4.87 x 3.28 (238.25 x 123.70 x 83.31)	7 Lbs
N	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 Lbs

9222B-ND Power One Reference Guide... **$5.20**

International Series Single Output

Voltage/ Current	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V @ 1.5A*	B	179-2301-ND◆	43.96	42.70	41.75	39.54	HA5-1.5/OVP-AG
5V @ 3A†*	B	179-2316-ND◆	51.07	49.68	48.63	46.18	HB5-3/OVP-AG
5V @ 6A†*	C	179-2040-ND	57.50	55.75	55.00	51.75	HC5-6/OVP-A
5V @ 6A†*	C	179-2325-ND◆	72.74	70.53	69.58	65.47	HC5-6/OVP-AG
5V @ 9A†*	N	179-2349-ND◆	99.30	96.14	94.24	89.18	HN5-9/OVP-AG
5V @ 12A†*	D	179-2336-ND◆	112.58	109.11	106.90	101.20	HD5-12/OVP-AG
5V @ 18A†*	E	179-2344-ND◆	165.72	160.98	157.50	149.28	HE5-18/OVP-AG
12V @ 0.9A**	B	179-2299-ND◆	42.41	41.25	40.26	38.28	HA15-0.9-AG
12V @ 1.7A†	B	179-2311-ND◆	43.65	42.39	41.44	39.55	HB12-1.7-AG
12V @ 3.4A†	C	179-2321-ND◆	66.09	64.20	62.94	59.46	HC12-3.4-AG
12V @ 5.1A†	N	179-2345-ND◆	92.66	89.82	87.92	83.49	HN12-5.1-AG
12V @ 6.8A†	D	179-2331-ND◆	105.95	102.79	100.58	95.20	HD12-6.8-AG
12V @ 10.2A†	E	179-2340-ND◆	145.47	141.05	138.20	130.93	HE12-10.2-AG
12V @ 16A†	F	179-2295-ND◆	253.40	245.85	241.04	228.34	F15-15-AG
15V @ 1.5A†	B	179-2312-ND◆	45.23	43.97	43.02	40.80	HB15-1.5-AG
15V @ 3A†	C	179-2322-ND◆	66.09	64.20	62.94	59.46	HC15-3-AG
15V @ 4.5A†	N	179-2346-ND◆	92.66	89.82	87.92	83.49	HN15-4.5-AG
15V @ 6A†	D	179-2042-ND	83.75	81.25	79.50	75.26	HD15-6-A
15V @ 6A†	D	179-2332-ND◆	105.95	102.79	100.58	95.20	HD15-6-AG
15V @ 4.5A†	N	179-2346-ND◆	92.66	89.82	87.92	83.49	HN15-4.5-AG
15V @ 6A†	D	179-2042-ND	83.75	81.25	79.50	75.26	HD15-6-A
15V @ 6A†	D	179-2332-ND◆	105.95	102.79	100.58	95.20	HD15-6-AG
15V @ 9A†	E	179-2341-ND◆	145.47	141.05	138.20	130.93	HE15-9-AG
24V @ 0.5A**	B	179-2300-ND◆	43.96	42.70	41.75	39.54	HA24-0.5-AG
24V @ 1.2A†	B	179-2314-ND◆	46.17	44.60	43.96	41.43	HB24-1.2-AG
24V @ 2.4A†	C	179-2323-ND◆	66.09	64.20	62.94	59.46	HC24-2.4-AG
24V @ 3.6A†	N	179-2347-ND◆	80.11	77.65	76.01	72.19	HN24-3.6-AG
24V @ 4.8A†	D	179-2333-ND◆	105.95	102.79	100.58	95.20	HD24-4.8-AG
24V @ 7.2A†	E	179-2342-ND◆	145.47	141.05	138.20	130.93	HE24-7.2-AG
24V @ 12A†**	F	179-2298-ND◆	253.40	245.85	241.04	228.34	F24-12-AG
28V @ 1A†	B	179-2294-ND◆	46.18	44.60	43.96	41.43	HB28-1-AG
28V @ 2A†	C	179-2324-ND◆	66.09	64.20	62.94	59.46	HC28-2-AG
28V @ 3A†	N	179-2348-ND◆	92.66	89.82	87.92	83.49	HN28-3-AG
28V @ 4A†	D	179-2334-ND◆	105.95	102.79	100.58	95.20	HD28-4-AG
48V @ 0.5A	B	179-2315-ND◆	53.12	51.55	50.28	47.75	HB48-0.5-AG
48V @ 3A†	D	179-2335-ND◆	112.58	109.11	106.90	101.20	HD48-3-AG
48V @ 4A†	E	179-2343-ND◆	158.76	154.03	150.86	142.96	HE48-4-AG

◆ ***RoHS Compliant*** * Overvoltage protection provided, set at 6.2V ±0.4V ** Adjustable outputs: HA15-0.9-AG: 12-15V; HA24-0.5-A/HA24-0.5-AG: 24-28V; F24-12-AG: 24-28V † Remote sense provided *(Continued)*

International Series Dual Output

Output #1	Output #2	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
+15V @ 0.4A§	-15V @ 0.4A§	B	179-2306-ND◆	49.02	47.45	46.50	43.97	HAD15-0.4-AG
+12V @ 0.4A§	-12V @ 0.4A§	B	179-2305-ND◆	38.75	37.50	36.75	34.76	HAD12-0.4-AG
+12V @ 1A or +15V @ 0.8A†	-12V @ 1A or -15V @ 0.8A or -5V @ 0.4A†	AA	179-2302-ND◆	56.93	55.35	54.08	51.24	HAA15-0.8-AG
+12V @ 1.7A or +15V @ 1.5A†	-12V @1.7A or -15V @ 1.5A or -5V @ 0.7A†	BB	179-2068-ND	57.50	55.75	55.00	51.76	HBB15-1.5-A
+12V @ 1.7A or +15V @ 1.5A†	-12V @1.7A or -15V @ 1.5A or -5V @ 0.7A†	BB	179-2318-ND◆	72.74	70.54	69.59	65.48	HBB15-1.5-AG
+12V @ 3.4A or +15V @ 3A†	-12V @ 3.4A or -15V @ 3A†	CC	179-2328-ND◆	133.85	129.85	127.31	120.40	HCC15-3-AG
+18-20V @ 0.4A or +24V @ 0.6A	(-)18-20V @ 0.4A or -24V @ 0.6A	AA	179-2063-ND	48.46	47.00	46.25	43.76	HAA24-0.6-A
5V @ 2A*‡	12-15V @ 0.5A	AA	179-2304-ND◆	66.09	64.20	62.94	59.46	HAA512-AG
5V @ 3A*†	12-15V @ 1.25A	BB	179-2320-ND◆	79.39	77.18	75.28	71.49	HBB512-AG
5V @ 6A*†	12-15V @ 2.5A	CC	179-2330-ND◆	125.56	121.77	119.24	113.23	HCC512-AG
24V @ 1.2A	-24V @ 1.2A	BB	179-2319-ND◆	83.48	82.16	80.84	75.54	HBB24-1.2-AG
12V @ 5A or 15V @ 5A†	-12V @ 5A or -15V @ 5A†	E	179-2339-ND◆	179.52	173.91	170.29	161.37	HDD15-5-AG
24V @ 0.6V	-24V @ 0.6A	AA	179-2303-ND◆	61.31	59.47	58.52	55.36	HAA24-0.6-AG
24V @ 2.4A	-24V @ 2.4A	CC	179-2329-ND◆	127.77	123.97	121.44	115.12	HCC24-2.4-AG

◆ ***RoHS Compliant*** * Overvoltage protection provided, set at 6.2V ±0.4%. † Remote sense provided ‡ Isolated outputs, can be referenced as + or - § Non-adjustable 3 terminal regulator

International Series Triple Output

Output #1	Output #2	Output #3	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V @ 2A*‡	12 to 15V @ 0.4A	-12 to 15V @ 0.4A or -5V @ 0.4A	AA	179-2350-ND◆	72.74	70.54	69.27	65.48	HTAA-16W-AG
5V @ 3A*†‡	12V @ 1A or 15V @ 0.8A†	-12 @ 1A or -15V @ 0.8A or -5V @ 0.4A†	BAA	179-2317-ND◆	100.58	97.42	95.52	90.46	HBAA-40W-AG
5V @ 6A*†	12 to 15V @1.0A	-12 to 15V @ 1A or -5V @ 0.4A	D	179-2326-ND◆	116.60	113.20	111.02	105.13	HCAA-60W-AG
5V @ 12A*†‡	12V @ 1.7A or 15V @ 1.5A†	-12V @ 1.7A or -15V @ 1.5A or -5V @ 0.7A†	DBB	179-2337-ND◆	186.39	180.80	177.07	167.76	HDBB-105W-AG
5V @ 12A*†‡	12V @ 3.4A or 15V @ 3A†	-12V @ 3.4A or -15V @ 3A†	DCC	179-2338-ND◆	213.84	207.57	203.28	192.39	HDCC-150W-AG
5V @ 6A†	12V @ 1.7A or 15V @ 1.5A†	-12V @ 1.7A or -15V @ 1.5A or -5V @ 0.7A†	CBB	179-2327-ND◆	138.83	134.73	131.88	124.92	HCBB-75W-AG

◆ ***RoHS Compliant*** * Overvoltage protection provided, set at 6.2V ±0.4%. † Remote sense provided ‡ Isolated outputs, can be referenced as + or -

Input Filter Modules – FC100 Series

Fig. 1

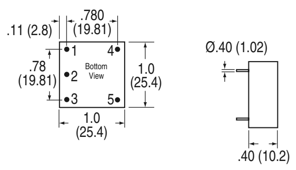

1. +V In
2. Ground
3. –V In
4. +V Out
5. –V Out

Fig. 2

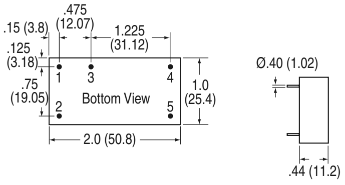

1. +V In
2. –V In
3. Ground
4. +V Out
5. –V Out

Fig. 3

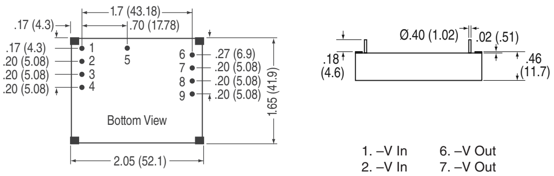

1. –V In
2. –V In
3. +V In
4. +V In
5. Ground
6. –V Out
7. –V Out
8. +V Out
9. +V Out

FC100 industry standard series of input filter modules provide up to 30dB of common mode and differential mode filtering at 500kHz. The FC100 series are optimized for operation with IPD's converters. The filters can be operated with up to 100VDC source and have 1000VDC of insolation.

Features:

• Meet class B conducted limits • PCB mountable • CM and DM filtering • Industry standard pinout • -40°C ~ 100°C case operation • Input frequency 100Hz

Fig.	Operating Current (Amps)	Insertion Loss Differential Mode (dB)	Insertion Loss Common Mode (dB)	Typical Resistance (mΩ)	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
1	5	28	30	27	179-2282-ND◆	13.86	13.37	12.87	12.38	FC100V5A-G
2	10	31	28	17	179-2179-ND	16.58	15.90	14.84	13.47	FC100V10A
					179-2283-ND◆	17.11	16.63	15.89	15.16	FC100V10A-G
3	20	26	32	6.6	179-2284-ND◆	26.81	25.03	23.24	21.45	FC100V20A-G

◆ ***RoHS Compliant***

power-one™
Changing the Shape of Power

Switching Power Supplies

U-Channel

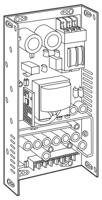

Board Only

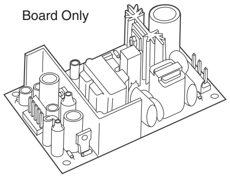

9222B-ND Power One Reference Guide........ **$5.20**

GENERAL FEATURES:

Safety agency approved: UL recognized, CSA certified, and TUV Essen certified. • Power Fail Warning Signal. 100% test, inspection and burn-in. • Overload Protection • Overvoltage Protection • Overtemperature Protection AC Input, Automatic selecting: 90-264VAC, 47-63Hz single phase Temperature Rating: 0°C ~ 50°C • Two Year Warranty

BLP Series The BLP40/55 Series' economical and compact construction provides single or three-output AC-DC power conversion to meet the requirements of networking and data communications systems, as well as commercial and industrial configurations. **FEATURES:** • Industry Standard 3" x 5" footprint • CE marked to Low Voltage Directive • Main Output Remote Sense

MPB - 80 Watts with PFC **FEATURES:** • 65 Watts convection cooled, 80 Watts with 300 LFM forced air • Power factor correction meets EN61000-3-2 • High 3.3V and 5V current capabilities available • CE Marked to the LVD • Autoranging AC input, 85-264VAC • Overvoltage protection on the main output • Isolated V3 can be used as a plus or minus output.

BLP/PLP/MAP SERIES — Single Output

Nom. Output Voltage	Power (Watts)	Current (A)	Min. Load (A)	Input Housing	Output Housing	Contacts	Dimensions Inches (mm)	Config-uration	Digi-Key Part No.	Price Each			Power-One Part No.
										1	10	25	
BLP Series — RoHS Compliant													
5V	25	5	—	WM2123	WM2126	WM2313	5.00 x 3.00 x 1.23 (127.00 x 76.20 x 31.20)	Board Only	179-2271-ND	30.25	27.50	25.67	BLP40-1005G
12V	25	2.1	—						179-2270-ND	30.25	27.50	25.67	BLP40-1012G
24V	25	1.1	—						179-2272-ND	30.25	27.50	25.67	BLP40-1024G
5V	30	7.2	—	WM2003	WM2003	WM2759CT	4.00 x 2.00 x 1.07 (101.6 x 50.8 x 27.18)	Board Only	179-2289-ND	28.42	25.84	24.12	BLP30-1005G
12V	30	3	—						179-2290-ND	28.42	25.84	24.12	BLP30-1012G
24V	30	1.5	—						179-2291-ND	28.42	25.84	24.12	BLP30-1024G
5V	40	8	—	WM2123	WM2126	WM2313	5.00 x 3.00 x 1.23 (127.00 x 76.20 x 31.20)	Board Only	179-2266-ND	32.38	29.60	27.75	BLP55-1005G
12V	40	3.3	—						179-2265-ND	32.38	29.60	27.75	BLP55-1012G
24V	40	1.6	—						179-2267-ND	32.38	29.60	27.75	BLP55-1024G
PLP Series — RoHS Compliant													
12V	75	7	—	WM2115	WM2115	WM2300	5.00 x 3.00 x 1.37 (127.00 x 76.20 x 34.80)	Board Only	179-2286-ND	78.00	74.96	71.61	PLP75-1012G
24V	75	3.5	—						179-2287-ND	78.00	74.96	71.61	PLP75-1024G
MAP Series													
5V	40	8	—	WM2103	WM2108	WM2300	6.00 x 3.27 x 1.60 (152.40 x 83.06 x 40.64)	U-Channel	179-2020-ND	126.78	109.96	99.30	MAP40-1005
5V	40	8	—				5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	Board Only	179-2001-ND	73.22	67.05	60.60	MAP42-1005
12V-15V	40	3.4	—				5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	Board Only	179-2002-ND	73.22	67.05	60.60	MAP42-1012
24V-28V	40	1.4	—				5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	Board Only	179-2003-ND	83.83	76.77	69.38	MAP42-1024
12V-15V†	55	5.0	—				6.00 x 3.27 x 1.60 (152.40 x 83.06 x 40.64)	U-Channel	179-2081-ND	149.13	136.56	123.41	MAP55-1012
24V-28V†	55	2.5	—	WM2103	WM2108	WM2300	6.00 x 3.27 x 1.60 (152.40 x 83.06 x 40.64)	U-Channel	179-2082-ND	139.43	121.34	109.64	MAP55-1024
12V/15V	80	7.5/6	.42				7.20 x 4.20 x 1.80 (182.90 x 106.70 x 45.7)	U-Channel	179-2355-ND◆	157.66	153.73	149.65	MAP80-1012G
5.1V	110††	16	—				7.00 x 4.25 x 1.80 (177.80 x 107.95 x 45.72)	Board Only	179-2006-ND	173.35	161.86	150.35	MAP110-1005
12V-15V†	130	12	—				8.50 x 4.50 x 2.00 (215.90 x 114.30 x 50.80)	U-Channel	179-2080-ND	275.74	245.45	221.33	MAP130-1012
12V-15V†	140††	9.2 7.3	—	WM2103	WM2108	WM2300	7.00 x 4.25 x 1.80 (177.80 x 107.95 x 45.72)	Board Only	179-2009-ND	218.80	206.46	194.41	MAP140-1012
48V	140††	2.3A	—	WM2103	WM2108	WM2300	7.00 x 4.25 x 1.80 (177.80 x 107.95 x 45.72)	Board Only	179-2011-ND	232.38	220.55	204.88	MAP140-1048
Cover for Map 55 and Map 40-1005 Series									179-2293-ND◆	11.43	—	—	412-59584-G
Cover for Map 80 Series									179-2296-ND◆	17.42	—	—	412-59585-G
Cover for Map 130 Series									179-2297-ND◆	10.24	—	—	412-59586-G

◆ ***RoHS Compliant*** † Models with adjustable outputs have current ratings expressed as current at lowest nominal voltage followed by current at highest nominal voltage †† 200LFM force-air cooling

Triple Output

Nom. Output Voltage	Power (Watts)	Current (A)	Min. Load (A)	Input Housing	Output Housing	Contacts	Configuration	Digi-Key Part No.	Price Each				Power-One Part No.
									1	10	25	50	
BLP Series — RoHS Compliant													
5V 12V -12V	25	5 3 1	.3 .1 —	WM2123	WM2126	WM2313	Board Only 5.00" x 3.00" x 1.23" (127.00mm x 76.2mm x 31.2mm)	179-2273-ND	33.92	30.84	28.78	26.73	BLP40-3000G
5V 12V -12V	30	5 3 1	.2 .1 —	WM2003	WM2003	WM2759CT	Board Only 4.00" x 2.00" x 1.07" (101.6mm x 50.8mm x 27.18mm)	179-2292-ND	31.45	28.05	26.35	24.65	BLP30-3000G
5V 12V -12V	40	7 4 1	.4 .2 —	WM2123	WM2126	WM2313	Board Only 5.00" x 3.00" x 1.23" (127.00mm x 76.2mm x 31.2mm)	179-2269-ND	35.41	32.62	30.75	28.89	BLP55-3000G
3.3V 5V 12V	25	7 4 1	.5 — —	WM2123	WM2126	WM2313	Board Only 5.00" x 3.00" x 1.23" (127.00mm x 76.2mm x 31.2mm)	179-2268-ND	35.41	32.62	30.75	28.89	BLP55-3300G
MAP Series													
5V 24V -12V	40	3 1 .3	1 .25 —	WM2103	WM2108	WM2300	Board Only 5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm)	179-2004-ND	124.69	113.51	102.32	92.33	MAP40-3101
5V 12V -5V	40	3 2 .5	1 .25 —	WM2103	WM2108	WM2300	Board Only 5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm)	179-2005-ND	76.19	67.94	62.43	56.00	MAP40-3105
5V 12V -12V	40	3 2 .3	—	WM2103	WM2108	WM2300	Board Only 5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm)	179-2357-ND	72.81	63.17	59.66	53.52	MAP40-3100
5V 12V -12V	40	3 2 .3	.5 .3 —	WM2123	WM2126	WM2300	Board Only 5.00" x 3.00" x 1.25" (127.00mm x 76.20mm x 31.75mm)	179-2095-ND	143.20	131.13	118.50	107.53	MAP40-3000
5V 12V -12V	80	20 4 1	2 — —	WM2103	WM2108	WM2300	Board Only 7.00" x 4.25" x 1.80" (177.80mm x 107.95mm x 31.75mm)	179-2012-ND	237.02	224.96	208.98	191.86	MAP140-3000P

Quad Output

Nom. Output Voltage	Power (Watts)	Current (A)	Min. Load (A)	Input Housing	Output Housing	Contacts	Configuration	Digi-Key Part No.	Price Each				Power-One Part No.
									1	10	25	50	
5V 12V -5V -12V	55	6 3 .5§ .5§	.5 — — —	A19953	A19958	A31396	U-Channel 6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm)	179-2096-ND	159.68	138.24	124.80	121.28	(MAP55-4000)
5V 24V 12V -12V	55	6 1.5 .5§ .5§	.5 — — —	A19953	A19958	A31396	U-Channel 6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm)	179-2097-ND	125.85	109.52	98.96	96.07	(MAP55-4001)
5V 12V 12V -12V	55	6 3 .5§ .5§	.5 — — —	WM2103	WM2108	WM2300	U-Channel 6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm)	179-2098-ND	152.60	135.21	120.06	116.70	(MAP55-4002)
5V 15V -5V -15V	55	6 2.5 .5§ .5§	.5 — — —	A19953	A19958	A31396	U-Channel 6.00" x 3.27" x 1.60" (152.40mm x 83.06mm x 40.64mm)	179-2099-ND	143.73	125.70	114.69	112.18	(MAP55-4003)

§ Maximum load on V3 or V4 can be 1 amp if either V3 or V4 is unloaded

(Continued)

Nom. Output Voltage	Power (Watts)	Current (A)	Min. Load (A)	Input Housing	Output Housing	Contacts	Configuration	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V 12V -12V -5V	80	14 4 1 1	1 — — —	A19953	A24126	A31396	U-Channel§ 7.20" x 4.20" x 1.80" (182.88mm x 106.68mm x 45.72mm)	179-2100-ND	253.15	240.69	220.09	212.67	(MAP80-4000)
5V 24V 12V -12V	80	14 2 1 1	1 — — —	A19953	A24126	A31396	U-Channel 7.20" x 4.20" x 1.80" (182.88mm x 106.68mm x 45.72mm)	179-2101-ND	208.40	199.92	180.71	175.08	(MAP80-4001)
5V 12V 12V -12V	80	14 4 1 1	1 — — —	A19953	A24126	A31396	U-Channel 7.20" x 4.20" x 1.80" (182.88mm x 106.68mm x 45.72mm)	179-2102-ND	256.48	242.86	221.79	208.17	(MAP80-4002)
5V 15V -5V -15V	80	14 3.5 1 1	1 — — —	A19953	A24126	A31396	U-Channel 7.20" x 4.20" x 1.80" (182.88mm x 106.68mm x 45.72mm)	179-2103-ND	253.38	237.90	214.36	206.93	(MAP80-4003)
5V 12V -12V 24V	80	12 5 1 1	1 — — —	A19953	A28761	A31396	Board Only 7.00" x 4.25" x 1.80" (177.80mm x 107.95mm x 45.72mm)	179-2007-ND	182.33	170.00	158.21	146.99	MAP110-4011
3.3V 5V -12V 12V	80	12 5 1 1	1 — — —	A19953	A28761	A31396	Board Only 7.00" x 4.25" x 1.80" (177.80mm x 107.95mm x 45.72mm)	179-2008-ND	263.10	234.50	211.50	205.32	MAP110-4300
5V 12V -12V -5V	130	20 5 1 1	3 — — —	A19953	A24127	A31396	U-Channel 8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm)	179-2093-ND	275.74	245.45	221.33	215.16	MAP130-4000
5V 24V -12V 12V	130	20 3.5 1 1	3 — — —	A19953	A24127	A31396	U-Channel 8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm)	179-2019-ND	280.49	249.65	224.96	218.52	MAP130-4001
5V 12V 12V -12V	130	20 5 1 1	3 — — —	A19953	A24127	A31396	U-Channel 8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm)	179-2094-ND	280.49	249.65	224.96	218.52	MAP130-4002

§ Maximum load on V3 or V4 can be 1 amp if either V3 or V4 is unloaded

MPB 80 Series

Nom. Output Voltage	Current (A)	Min. Load (A)	Input Housing	Output Housing	Contacts	Dimensions Inches (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
80 - Power (Watts)§ — Board Only												
5V 12V	11 .5	1.5 —	WM2101	WM2104	WM2300	5.00 x 3.00 x 1.40 (127.00 x 76.20 x 35.56)	179-2013-ND	101.75	91.80	84.66	76.51	MPB80-2000
5V 12V 12V	7 2.5 0.3	.7 — —	WM2101	WM2105	WM2300	5.00 x 3.00 x 1.40 (127.00 x 76.20 x 35.56)	179-2014-ND	117.79	108.54	100.13	89.75	MPB80-3000
3.3V 5V 12V	7 3 0.4	.7 — —	WM2101	WM2105	WM2300	5.00 x 3.00 x 1.40 (127.00 x 76.20 x 35.56)	179-2015-ND	117.79	108.54	100.13	89.75	MPB80-3300

§ ***Caution:*** 80 Watt with 300LFM forced-air cooling

MPB 125 Series

Features: • High power density in an industry standard 3" x 5" footprint • Power Factor Correction (PFC) meets EN61000-3-2 • Main output remote sense • MTBF in excess of 1M hours based upon field data • Optional remote on/off with 5V standby • Maximum forced-air output power is 125 watts with 5 CFM airflow

Output Voltage	Max. Output Current (A), 130 LFM	Dimensions Inch (mm) L x W x H	Mating Connectors Housing AC Input	Contacts AC Input	Housing, V1 DC Output	Contacts, V1 DC Output	Signal Housing	Signal Contacts	Housing, V2 DC Output	Contacts, V2 DC Output	Digi-Key Part No.	Price Each 1	10	25	Power-One Part No.
Standard Model															
5 12	25 0.5	5.0 x 3.0 x 1.25 (127.0 x 76.2 x 31.75)	WM2123	WM2313	WM2119	WM2313	WM2003	WM2200	WM2000	WM2200	179-2285-ND◆	89.25	86.70	81.60	MPB125-2005G
12	0.5	5.0 x 3.0 x 1.25 (127.0 x 76.2 x 31.75)	WM2123	WM2313	WM2126	WM2313	WM2004	WM2200	WM2000	WM2200	179-2274-ND◆	89.25	86.70	81.60	MPB125-2012G
24 12	5.2 0.5	5.0 x 3.0 x 1.25 (127.0 x 76.2 x 31.75)	WM2123	WM2313	WM2126	WM2313	WM2004	WM2200	WM2000	WM2200	179-2275-ND◆	89.25	86.70	81.60	MPB125-2024G
5 12 -12	16.5 5 0.5	5.0 x 3.0 x 1.25 (127.0 x 76.2 x 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2277-ND◆	89.25	86.70	81.60	MPB125-3000G
2.5 5 12 -12	12 15 5 0.5	5.0 x 3.0 x 1.25 (127.0 x 76.2 x 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2258-ND	87.50	85.00	80.00	MPB125-4250
3.3 5 12 -12	10 15 5 0.5	5.0 x 3.0 x 1.25 (127.0 x 76.2 x 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2278-ND◆	89.25	86.70	81.60	MPB125-4350G
With Remote On/Off and Standby Output															
2.5 5 12 -12	12 15 5 0.5	5.0 x 3.8 x 1.25 (127.0 x 97 x 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2261-ND	105.00	102.00	96.00	MPB125-4250R
3.3 5 12 -12	10 15 5 0.5	5.0 x 3.8 x 1.25 (127.0 x 97 x 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2279-ND◆	107.10	104.04	97.92	MPB125-4350RG

◆ ***RoHS Compliant***

Weidmüller DIN-Rail Mounted Switchmode Power Supplies

Features:

- TS35 DIN Rail Mounted
- AC or DC Input
- Wide AC Input Voltage Range
- Interference suppressed
- Electronic short circuit regulation on output
- CSA, UL, CE
- 26-12 AWG input/output conductor size

Fig. 1

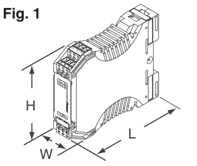

Fig. 2

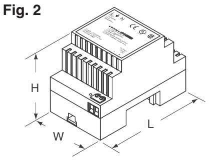

Fig. 3

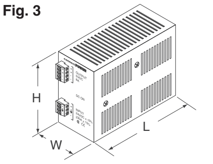

Fig. 4

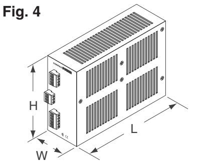

Fig. 5

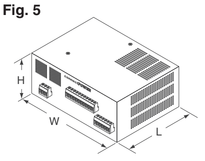

Fig.	Input Voltage Range VAC	Input Voltage Range VDC	Dimensions L x W x H (mm)	DC Output Voltage	Max. Current Output (A)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Weidmüller Part No.
1	85 ~ 265V	120 ~ 300V	112.5 x 18 x 90	24V	0.5	281-2002-ND	117.79	107.70	84.14	9918840024
2	85 ~ 265V	120 ~ 300V	62.5 x 52 x 90.5	5V	2.0	281-1556-ND◆	74.54	68.15	53.25	9928890005
	85 ~ 265V	120 ~ 300V	62.5 x 52 x 90.5	12V	1.5	281-1557-ND◆*	80.71	73.80	57.66	9928890012
				15V	1.5	281-1558-ND◆	74.54	68.15	53.25	9928890015
				24V	1.0	281-1563-ND◆*	74.54	68.15	53.25	9928890024
				28V	1.0	281-1559-ND◆	74.54	68.15	53.25	9928890028
3	85 ~ 265V	120 ~ 300V	131 x 57 x 98	24V - 28V	2.3	281-2005-ND◆*	176.27	161.17	125.91	9927480024
				48V	1.04	281-2006-ND◆	180.66	165.18	129.05	9927480048
				12V - 15V	3.0	281-2004-ND◆*	180.66	165.18	129.05	9927480012
				5V	3.0	281-2003-ND	180.66	165.18	129.05	9927480005
	306 ~ 550V	—	160 x 60 x 108	24	2.3	281-2009-ND†	211.81	193.66	151.29	9917790324
4	85 ~ 138V	275 ~ 375V	175 x 57 x 127	24V - 28V	6.5	281-2007-ND◆*	284.39	260.02	203.14	9925340024
5	86 ~ 265V	100 ~ 200V	155 x 240 x 101	24V	12.5	281-2019-ND	544.64	497.96	389.03	9916250024

◆ ***RoHS Compliant*** † 3-Phase input * Class 1 Division 2 approved

DIN-Rail Mounted DC-DC Converters

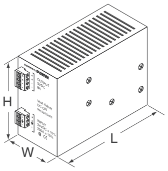

The CP-DCDC 50W is a compact 50W DIN rail mounted DC to DC converter family. This family is available in 2 input versions and 4 output versions, making it very versatile.

Features: • 12V and 24V input versions • 5V, 12V, 15V and 24V output variations • User adjustable output voltage • Input and output plug-socket connectors • Output status LED • DIN rail (TS35) mountable • Chassis mountable with optional hardware • Just 57mm (2.24") wide • Robust metal housing

Specifications: Temp range: -10°C ~ 50°C **Wire Size:** 26-12AWG **Approvals/Certifications:** CSA, UL, CE **Fused Input Protections:** 6.3A Slow Blow

Input Current	Output Volt/Current	Output Adj. Range	Dimension L x W x H (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Price Each 50	Weidmüller Part No.
12VDC Input Version with 10.2 - 13.8VDC Input Range									
3.88A	12V@3A	10.5V ~ 14.5V	98 x 57 x 131	281-2011-ND*	261.68	235.51	226.79	222.43	9919371212
4.70A	15V@3A	13V ~ 18V		281-2012-ND◆*	256.64	230.98	222.43	218.15	9919371215
4.96A	24V@2A	20.5V ~ 29.5V		281-2013-ND◆*	261.68	235.51	226.79	222.43	9919371224
24VDC Input Version with 20.4 - 27.6VDC Input Range									
2.3A	5V@8A	4.6V ~ 5.6V	98 x 57 x 131	281-2014-ND*	261.68	235.51	226.79	222.43	9919372405
1.93A	12V@3A	10.5V ~ 14.5V		281-2015-ND◆*	261.68	235.51	226.79	222.43	9919372412
2.37A	15V@3A	13V ~ 18V		281-2016-ND*	261.68	235.51	226.79	222.43	9919372415
2.49A	24V@2A	20.5V ~ 29.5V		281-2017-ND◆*	261.68	235.51	226.79	222.43	9919372424
Chassis Mounting Kit				281-2018-ND	8.89	6.84	5.48	—	7920560000

◆ ***RoHS Compliant*** * Class 1 Division 2 approved

PHOENIX CONTACT DIN-Rail Mounted Quint Industrial Grade Primary Switched-Mode Power Supplies

Features:

• Universal voltage input • Maximum space-saving design • Power factor correction • POWER BOOST output up to 50% • Electronic overload protection • High MTBF rating >500,000 hours • DC OK signal and DC OK dry contact • Parallel and series connection • 5 Year warranty

Fig.	Input Voltage Range VAC	Input Voltage Range VDC	Dimensions L x W x H (mm)	Output Voltage	Current Output	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Mfg. Part No.
1	85 ~ 264V	90 ~ 350V	125 x 55 x 130	24VDC	2.5A	277-1660-ND	178.08	163.84	144.25	2938578
					5A	277-1661-ND	267.12	245.76	216.37	2938581
2	85 ~ 264V	90 ~ 350V	130 x 85 x 130	12VDC	10A	277-1865-ND	373.89	343.98	302.85	2938811
				24VDC	10A	277-1662-ND	384.78	354.00	311.68	2938604
3	85 ~ 264V	90 ~ 350V	125 x 157 x 130	24VDC	20A	277-1663-ND	640.24	589.03	518.60	2938620
		90 ~ 350V	125 x 240 x 130	24VDC	40A	277-1913-ND	811.64	746.71	657.43	2938879
		90 ~ 350V	125 x 157 x 130	48VDC	10A	277-1914-ND	705.55	649.11	571.50	2938248
		120 ~ 350V	125 x 240 x 130	48VDC	20A	277-1915-ND	784.86	722.08	635.74	2938976
	3x320 ~ 575V	450 ~ 800V	125 x 70 x 130	24VDC	5A	277-1916-ND	284.08	261.36	230.11	2938594
		450 ~ 800V	125 x 85 x 130	24VDC	10A	277-1917-ND	384.78	354.00	311.68	2938617
		450 ~ 800V	125 x 160 x 130	24VDC	20A	277-1918-ND	540.60	497.36	437.89	2938727
		450 ~ 800V	125 x 240 x 130	24VDC	40A	277-1919-ND	833.27	766.61	674.95	2938646
		450 ~ 800V	130 x 160 x 130	48VDC	10A	277-1920-ND	507.79	467.17	411.31	2938219
		450 ~ 800V	130 x 240 x 130	48VDC	20A	277-1921-ND	676.71	622.58	548.14	2938222
DC-DC Converter										
2	—	18 ~ 32V	125 x 80 x 130	24VDC	10A	277-1922-ND	484.42	445.67	392.38	2866378

Fig. 1

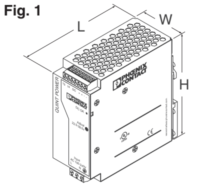

Fig. 2

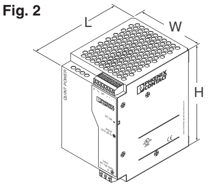

Fig. 3

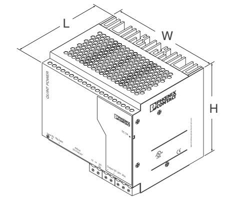

DIN-Rail Mounted General Purpose Primary Switched-Mode TRIO Power Supplies

Features:

• Wide Range Input Voltage • 500,000 hours MTBF • Electronic overload and short circuit protection • Single or Parallel - (No Selector Switch) • 3-Year Warranty • Power Factor Correction • Operating Temperature: 0°C ~ 55°C without derating • Built-in LED Indication • U/I Characteristic overload protection • Adjustable Output Voltage: 22.5~29.5 VDC (24 VDC Models) • UL 508

Input Voltage Range VAC	Dimensions L x W x H (mm)	Output Voltage	Current Output	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Mfg. Part No.
85 ~ 264V	115 x 32 x 130	24VDC	2.5A	277-1926-ND	112.00	103.04	90.72	2866268
	115 x 40 x 130		5A	277-1927-ND	168.00	154.56	136.08	2866310
	152.5 x 60 x 130		10A	277-1928-ND	241.00	221.72	195.21	2866323
	152.5 x 115 x 130		20A	277-1929-ND	402.00	369.85	325.62	2866381

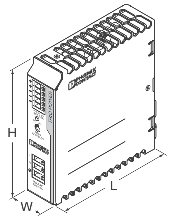

Filter Surge Protection

DIN rail module with device surge protection type 3 and mains suppression filter against high frequency interference voltages.

Integrated power display switches off automatically when there is a malfunction due to overload. Mounting on NS 35.

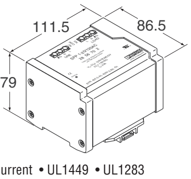

Dimensions in mm

Specifications:

• 120V Nominal Voltage • 20A Nominal Current • UL1449 • UL1283

277-1867-ND (2856702) **$301.41**

PHOENIX CONTACT DIN-Rail Mounted Mini Power Universal Power Supplies

Features: • Universal voltage input • Maximum space-saving design • Power factor correction • POWER BOOST output up to 100% • Electronic overload protection • High MTBF rating >500,000 hours • Pluggable COMBICON connections • Parallel connection • Derating starts @ >60° C

Fig.	Input Voltage Range VAC	Input Voltage Range VDC	Dimensions L x W X H (mm)	Output Voltage	Current Output	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Phoenix Part No.
1	85-264V	90-350V	114.5 x 22.5 x 99	5VDC	3A	277-1664-ND	115.26	106.04	93.37	2938714
2	85-264V	90-350V	114.5 x 45 x 99	10-15VDC	2A	277-1863-ND	146.88	135.13	118.98	2938756
			114.5 x 67.5 x 99	10-15VDC	8A	277-1864-ND	197.88	182.05	160.29	2866297
			114.5 x 45 x 99	24VDC	2A	277-1666-ND	134.64	123.87	109.06	2938730
			114.5 x 67.5 x 99	24VDC	3.8A	277-1862-ND†	162.18	149.21	131.37	2866336
3	85-264V	90-350V	107 x 22.5 x 99	24VDC	1.3A	277-1923-ND	103.02	94.78	83.45	2866446
	—	10-32V	107 x 22.5 x 99	24VDC	1A	277-1924-ND	168.30	154.84	136.33	2866284
	—	36-75V	107 x 22.5 x 99	24VDC	1A	277-1925-ND	168.30	154.84	136.33	2866271

† NEC Class 2

Fig. 1

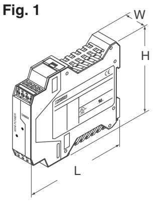

Fig. 2

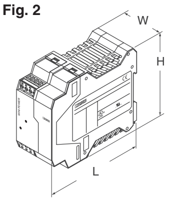

Fig. 3

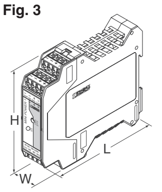

OMRON Switching Power Supplies

S8VM Series Switching Power Supplies

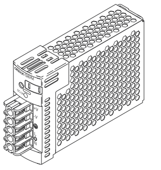

Omron's newest power supply offered in either Din-rail mount or Chassis mount universal power supplies. The S8VM series is an ultra compact design with the widest possible operating voltage (100-240VAC).

Includes Finger-safe front terminals, captive terminal screws that don't fall out and color coded voltage labels for the different output voltages to prevent communication misunderstandings.

UL 1604 rating (Class 1, Division 2) for hazardous areas

Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Price Each 100	Omron Part No.
Din-Rail										
15	5	3	3.21 x 3.17 x 1.06 (81.5 x 80.5 x 27)	Standard	Z2463-ND	55.44	51.33	47.91	44.49	S8VM-01505CD
	12	1.3		Standard	Z2465-ND	55.44	51.33	47.91	44.49	S8VM-01512CD
	24	.65		Undervoltage Alarm	Z2467-ND	69.53	64.38	60.09	55.80	S8VM-01524AD
	24	.65		Standard	Z2468-ND	55.44	51.33	47.91	44.49	S8VM-01524CD
30	5	6	3.25 x 3.76 x 1.06 (82.5 x 95.5 x 27)	Standard	Z2471-ND	61.07	56.55	52.78	49.01	S8VM-03005CD
	12	2.5		Standard	Z2473-ND	61.07	56.55	52.78	49.01	S8VM-03012CD
	15	2		Standard	Z2475-ND	61.07	56.55	52.78	49.01	S8VM-03015CD
	24	1.3		Undervoltage Alarm	Z2477-ND	75.17	69.60	64.96	60.32	S8VM-03024AD
	24	1.3		Standard	Z2478-ND	61.07	56.55	52.78	49.01	S8VM-03024CD
50	5	10	3.25 x 4.74 x 1.06 (82.5 x 120.5 x 27)	Standard	Z2481-ND	76.11	70.47	65.78	61.08	S8VM-05005CD
	12	4.3		Standard	Z2482-ND	76.11	70.47	65.78	61.08	S8VM-05012CD
	24	2.2		Undervoltage Alarm	Z2483-ND	90.20	83.52	77.96	72.39	S8VM-05024AD
	24	2.2		Standard	Z2484-ND	76.11	70.47	65.78	61.08	S8VM-05024CD
100	5	20	3.25 x 6.32 x 1.06 (82.5 x 160.5 x 27)	Standard	Z2487-ND	103.36	95.70	89.32	82.94	S8VM-10005CD
	12	8.5		Standard	Z2489-ND	103.36	95.70	89.32	82.94	S8VM-10012CD
	24	4.5		Undervoltage Alarm	Z2491-ND	117.45	108.75	101.50	94.25	S8VM-10024AD
	24	4.5		Standard	Z2492-ND	103.36	95.70	89.32	82.94	S8VM-10024CD
150	5	27	3.25 x 6.32 x 1.48 (82.5 x 160.5 x 37.5)	Standard	Z2495-ND†	130.60	120.93	112.87	104.81	S8VM-15005CD
	12	12.5		Standard	Z2497-ND	130.60	120.93	112.87	104.81	S8VM-15012CD
	24	6.5		Undervoltage Alarm	Z2499-ND	144.70	133.98	125.05	116.12	S8VM-15024AD
	24	6.5		Standard	Z2500-ND	130.60	120.93	112.87	104.81	S8VM-15024CD
Front-Mounting										
15	5	3	3.21 x 3.17 x 1.06 (81.5 x 80.5 x 27)	Standard	Z2464-ND	55.44	51.33	47.91	44.49	S8VM-01505C
	12	1.3		Standard	Z2466-ND	55.44	51.33	47.91	44.49	S8VM-01512C
	24	.65		Undervoltage Alarm	Z2469-ND	55.44	51.33	47.91	44.49	S8VM-01524A
	24	.65		Standard	Z2470-ND	55.44	51.33	47.91	44.49	S8VM-01524C
30	5	6	3.25 x 3.76 x 1.06 (82.5 x 95.5 x 27)	Standard	Z2472-ND	61.07	56.55	52.78	49.01	S8VM-03005C
	12	2.5		Standard	Z2474-ND	61.07	56.55	52.78	49.01	S8VM-03012C
	15	2		Standard	Z2476-ND	61.07	56.55	52.78	49.01	S8VM-03015C
	24	1.3		Undervoltage Alarm	Z2479-ND	61.07	56.55	52.78	49.01	S8VM-03024A
	24	1.3		Standard	Z2480-ND	61.07	56.55	52.78	49.01	S8VM-03024C
50	24	2.2	3.25 x 4.74 x 1.06 (82.5 x 120.5 x 27)	Undervoltage Alarm	Z2485-ND	76.11	70.47	65.78	61.08	S8VM-05024A
	24	2.2		Standard	Z2486-ND	76.11	70.47	65.78	61.08	S8VM-05024C
100	5	20	3.25 x 6.32 x 1.06 (82.5 x 160.5 x 27)	Standard	Z2488-ND	103.36	95.70	89.32	82.94	S8VM-10005C
	12	8.5		Standard	Z2490-ND	103.36	95.70	89.32	82.94	S8VM-10012C
	24	4.5		Undervoltage Alarm	Z2493-ND	103.36	95.70	89.32	82.94	S8VM-10024A
	24	4.5		Standard	Z2494-ND	103.36	95.70	89.32	82.94	S8VM-10024C
150	5	27	3.25 x 6.32 x 1.48 (82.5 x 160.5 x 37.5)	Standard	Z2496-ND†	130.60	120.93	112.87	104.81	S8VM-15005C
	12	12.5		Standard	Z2498-ND	130.60	120.93	112.87	104.81	S8VM-15012C
	24	6.5		Undervoltage Alarm	Z2501-ND	130.60	120.93	112.87	104.81	S8VM-15024A
	24	6.5		Standard	Z2502-ND	130.60	120.93	112.87	104.81	S8VM-15024C

† The output capacity is 135 Watts.

S8VS Series Switching Power Supplies

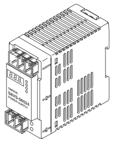

- Ultra-compact size with built-in din rail mounting
- Approved by UL, cUL
- SEMI F47 approved
- CE marked
- Three year warranty

Specifications:

- **Input Voltage:** 100 ~ 240VAC (85 ~ 264VAC)
- Power Factor Correction: Conforms to EN61000-3-2 A-14
- Overvoltage Protection: Yes
- Output Indicator: Yes, green
- Electromagnetic Interference: Conforms to FCC Class A, EN50081-2

Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Price Each 100	Omron Part No.
15	5	2.0	3.35 x 0.89 x 3.80 (85 x 22.5 x 96.4)	Standard	Z2289-ND*	64.83	60.03	56.03	52.03	S8VS-01505
	12	1.2			Z2290-ND	64.83	60.03	56.03	52.03	S8VS-01512
	24	0.65			Z2291-ND	64.83	60.03	56.03	52.03	S8VS-01524
30	5	4.0	3.35 x 0.89 x 3.80 (85 x 22.5 x 96.4)	Standard	Z2292-ND§	83.62	77.43	72.27	67.11	S8VS-03005
	12	2.5			Z2293-ND	83.62	77.43	72.27	67.11	S8VS-03012
	24	1.3			Z2294-ND	83.62	77.43	72.27	67.11	S8VS-03024

* The output capacity is 10 Watts. § The output capacity is 20 Watts.

(Continued)

Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
60	24	2.5	3.74 x 1.58 x 4.26 (95 x 40 x 108.3)	Standard	Z1663-ND	117.45	108.75	101.50	94.25	S8VS-06024
				with Maintenance Forecast Monitor	Z1665-ND	122.41	113.34	105.79	98.23	S8VS-06024A
				with Total Run Time Monitor	Z1667-ND	124.03	114.84	107.19	99.53	S8VS-06024B
90	24	3.75	4.53 x 1.97 x 4.77 (115 x 50 x 121.3)	Standard	Z1664-ND	155.03	143.55	133.98	124.41	S8VS-09024
				with Maintenance Forecast Monitor	Z1666-ND	161.61	149.64	139.67	129.69	S8VS-09024A
				with Total Run Time Monitor	Z1668-ND	161.61	149.64	139.67	129.69	S8VS-09024B
120	24	5.0	4.53 x 1.97 x 4.77 (115 x 50 x 121.3)	Standard	Z2295-ND	186.04	172.26	160.78	149.30	S8VS-12024
				with Maintenance Forecast Monitor	Z2296-ND	192.62	178.35	166.46	154.57	S8VS-12024A
				with Total Run Time Monitor	Z2297-ND	192.62	178.35	166.46	154.57	S8VS-12024B
180	24	7.5	4.53 x 2.95 x 4.93 (115 x 75 x 125.3)	Standard	Z2298-ND	248.99	230.55	215.18	199.81	S8VS-18024
				with Maintenance Forecast Monitor	Z2299-ND	258.39	239.25	223.30	207.35	S8VS-18024A
				with Total Run Time Monitor	Z2300-ND	258.39	239.25	223.30	207.35	S8VS-18024B
240	24	10.0	4.53 x 3.94 x 4.93 (115 x 100 x 125.3)	Standard	Z2301-ND	272.48	252.30	235.48	218.66	S8VS-24024
				with Maintenance Forecast Monitor	Z2302-ND	324.16	300.15	280.14	260.13	S8VS-24024A
				with Total Run Time Monitor	Z2303-ND	324.16	300.15	280.14	260.13	S8VS-24024B
480	24	20	4.53 x 5.90 x 5.00 (115 x 150 x 127.2)	Standard	Z2813-ND ***NEW!***	442.26	409.50	382.20	354.90	S8VS-48024
				with Maintenance Forecast Monitor	Z2812-ND ***NEW!***	481.14	445.50	415.80	386.10	S8VS-48024A
Mounting Bracket (DIN Rail Mounting for 600-W Models)...					Z2814-ND ***NEW!***	24.30	22.50	21.00	19.50	S82Y-VM60D

* The output capacity is 10 Watts. § The output capacity is 20 Watts.

S82K DIN Rail/Chassis Mount Switching Supplies

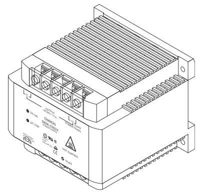

DIN Rail or chassis mounted power supply for industrial applications. Screw terminals for both input and output connections and enclosed circuit board make this supply extremely safe for open access areas. For mounting track, use Z840-ND or Z841-ND

Specifications:

• Input Frequency: 47Hz ~ 450Hz • Leakage Current: 100V input 0.5mA maximum • Efficiency: (typical) 60% ~ 80% • Overload Protection: 105% ~ 160% of rated load current (typical) • Life Expectancy: 8 years minimum • Operating Temperature: 0°C ~ 40°C • Input Voltage: 120VAC (85 ~ 132VAC) or 240VAC (170 ~ 264VAC) selectable • Ambient Humidity: Operating 25% ~ 85% • Noise Filter: Yes • Electromagnetic Interference: Conforms to FCC class B • Output Voltage Adjustment Range: ±10%

Input Voltage VAC	Watts	Output Voltage (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
85 ~ 264	3	5	0.6	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1177-ND◆	48.39	44.81	41.82	S82K-00305
	3	12	0.25	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1178-ND◆	48.39	44.81	41.82	S82K-00312
	3	24	0.13	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1179-ND	48.39	44.81	41.82	S82K-00324
	7.5	5	1.5	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1180-ND◆	53.32	49.38	46.09	S82K-00705
	7.5	12	0.6	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1181-ND◆	53.32	49.38	46.09	S82K-00712
	7.5	24	0.3	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1182-ND◆	53.32	49.38	46.09	S82K-00724
	15	24	0.6	2.95 x 1.77 x 3.58 (75 x 45 x 91)	DIN-Rail	Z1183-ND◆	80.10	74.17	69.23	S82K-01524
	30	24	1.3	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z1184-ND◆	108.05	100.05	93.38	S82K-03024
	50	24	2.1	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z1185-ND◆	124.03	114.84	107.19	S82K-05024
100 ~ 240	15	5	2.5	2.95 x 1.77 x 3.58 (75 x 45 x 91)	DIN-Rail	Z2435-ND◆	80.11	74.18	69.23	S82K-01505
	15	12	1.2	2.95 x 1.77 x 3.58 (75 x 45 x 91)	DIN-Rail	Z2361-ND◆	80.10	74.17	69.23	S82K-01512
	30	5	5.0	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z2436-ND◆	108.05	100.05	93.38	S82K-03005
	30	12	2.5	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z2437-ND◆	108.05	100.05	93.38	S82K-03012
120 ~ 240	90	24	3.75	2.95 x 5.71 x 3.78 (75 x 145 x 96)	DIN-Rail	Z2438-ND◆	163.49	151.38	141.29	S82K-09024
	100	24	4.2	2.95 x 5.71 x 3.78 (75 x 145 x 96)	DIN-Rail	Z2360-ND◆	172.89	160.08	149.41	S82K-10024

◆ ***RoHS Compliant***

S8PS Series Enclosed DIN Rail Mount Supplies

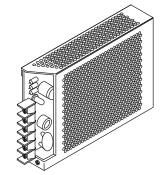

Enclosed DIN rail mount power supplies with PFC on all models. Screw terminal connections make interfacing to supply convenient.
For mounting track, use Z840-ND or Z841-ND.

Specifications:

• Input Frequency: 47Hz ~ 63Hz • Overvoltage Protection: Yes • Efficiency: (typical) 74% ~ 80% • Operating Temperature: 0°C ~ 50°C • Life Expectancy: 10 years minimum • Output indicator: Yes (green) • Electromagnetic Interference: Conforms to FCC Class B, EN50081-1 • Leakage Current: 0.5 or 1.0mA maximum • Voltage Adjustment Range: -5% ~ 10% • Mean Time Between Failure (MTBF): 135,000 hours minimum

Input Voltage	Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
85 ~ 264	50	5	10	1.57 x 3.35 x 5 (40 x 85 x 127)	Enclosed	Z1173-ND	122.15	113.10	105.56	98.02	S8PS-05005CD
	50	12	4.2	1.57 x 3.35 x 5 (40 x 85 x 127)	Enclosed	Z1174-ND	122.15	113.10	105.56	98.02	S8PS-05012CD
	100	24	4.5	1.97x 3.62 x 5.71 (50 x 92 x 145)	Enclosed	Z1176-ND	192.62	178.35	166.46	154.57	S8PS-10024CD

Panasonic® DC-DC Power Modules FD-Series

The FD Series are DC-DC converters especially designed for Telecommunication equipment (i.e., Base Station RF Power Amplifier, Private Branch Exchange (PBX). FD Series involves newly developed "Partial Resonant Zero Voltage Switching Converter", "High Thermal Conductive Composite Board" and "Low Profile Inductors" to achieve high density, high efficiency and low EMI noise

Applications:

- RF Power Amplifier for Base Station
- Private Branch Exchange (PBX)

Features:

- Parallel operation with forced load sharing
- Remote ON/OFF (primary side referenced)
- Adjustable output voltage
- Power Good Signal (POK)
- Thermal protection
- Over voltage and over current protection
- Case ground (Base Plate) pin
- Remote sense
- UL Recognized, CSA Certified, and EN60950
- CE mark meets 73/73/EEC and 93/68/EEC directives
- Mounting Inserts: M3 X 0.5

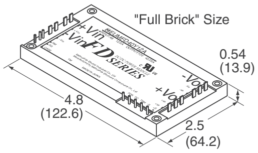

VDC Input			V Out	I Out	V in Range	Output Noise (mV)	Load Reg. (%)	Line Reg. (%)	% Typ. Efficiency	Temperature Range	Digi-Key Part No.	Price Each	Panasonic Part No.
Min.	Typ.	Max.											
Output Power – 600 Watts													
19	24	36	28	21.5A	19-36	100	0.7	0.5	87.5	-40°C ~ 85°C @ 560W -40°C ~ 100°C @ 448W	P12731-ND	395.01	EUMFD60V28A
36	48	72	12	50A	36-72	80	0.5	0.5	89	-40°C ~ 85°C @ 600W -40°C ~ 100°C @ 540W	P12732-ND	395.01	EUMFD60Y12A
36	48	72	28	21.5A	36-72	100	0.75	0.5	91	-40°C ~ 85°C @ 602W -40°C ~ 100°C @ 546W	P12733-ND	395.01	EUMFD60Y28A

P12734-ND Power Choke For FD Series L0=2.54µH @ 0A, L1=1.75µH @ 25A, DCR=2.2mΩ………… **$10.01**

Panasonic® DC-DC Converters

Miniature, light and high efficiency Hybrid IC style switching type DC/DC converters. The DC/DC converter is accomplished by means of switching mode control without a transformer. When used with a simple rectifier circuit they can be connected directly to AC.

Features: • With over current protector.
Recommended Applications: • Power supply for microcomputer, fan motor, LED, buzzer and sensor circuit of household electric equipment.

Fig. 1

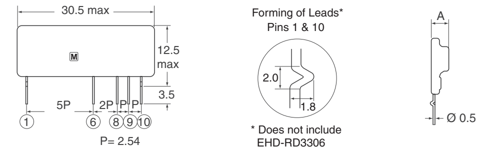

* Does not include EHD-RD3306

No.	Function
1	IN
2	—
3	—
4	—
5	—
6	GND
7	—
8	L1-1
9	OUT
10	L1-2

Fig. 2

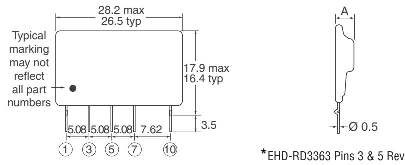

*EHD-RD3363 Pins 3 & 5 Reversed

No.	Function
1	OUT
2	—
3*	L1-1
4	—
5*	L1-2
6	—
7	GND
8	—
9	—
10	IN

Fig. 3

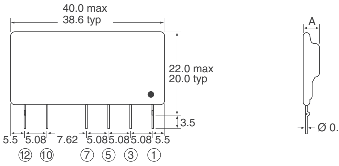

No.	Function	No.	Function
1	OUT	2	—
3	L1-1	4	—
5	L1-2	6	—
7	GND	8	—
9	—	10	NC
11	—	12	IN

Fig. 4

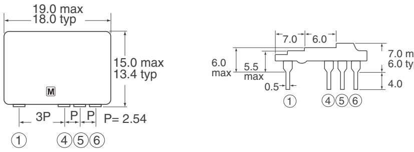

No.	Function
1	IN
2	—
3	—
4	GND
5	TP
6	OUT

Fig. 5

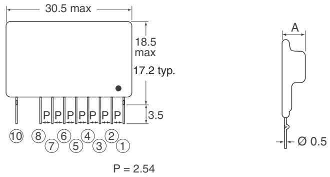

No.	Function	No.	Function
1	OUT	2	NC
3	NC	4	NC
5	GND	6	NC
7	NC	8	NC
9	—	10	IN

Fig. 6

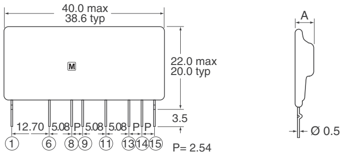

No.	Function	No.	Function
1	NC	2	—
3	—	4	—
5	—	6	IN
7	—	8	NC
9	GND	10	—
11	L1-1	12	—
13	L1-2	14	NC
15	OUT		

Fig. 7

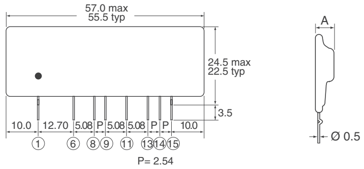

No.	Function	No.	Function
1	NC	2	—
3	—	4	—
5	—	6	IN
7	—	8	NC
9	GND	10	—
11	L1-1	12	—
13	L1-2	14	NC
15	OUT		

Fig. 8

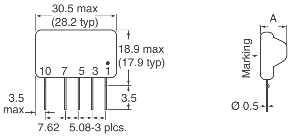

No.	Function	No.	Function
1	OUT	2	—
3	NC	4	—
5	GND	6	—
7	NC	8	—
9	—	10	IN

Fig.	Input Voltage (VDC)			Output Voltage (VDC)			Output Current	Dimensions (A)		Digi-Key	Price Each			Panasonic
	(Min.)	(Typ.)	(Max.)	(Min.)	(Typ.)	(Max.)	(Max.)	(Typ.)	(Max.)	Part No.	1	10	25	Part No.
1	113	141	170	4.75	5.10	5.35	100mA	—	6.0	P11447-ND	7.44	5.45	5.10	EHD-RD3303
2	113	141	190	11.0	12.0	13.0	200mA	4.3	6.0	P13450-ND◆	6.75	4.94	4.62	EHD-RD3324Y
	113	141	195	18.5	20	21.5	200mA	4.3	6.0	P13454-ND◆	9.07	6.64	6.21	EHD-RD3357
	113	141	170	23.0	24.6	25.5	200mA	4.3	6.0	P11449-ND	9.08	6.64	6.22	EHD-RD3362A
	113	141	170	23.0	24.6	25.5	200mA	4.3	6.0	P13452-ND◆	8.16	5.97	5.59	EHD-RD3362B
	-113	-141	-170	-11.0	-12.0	-13.0	-250mA	4.3	7.0	P13453-ND◆	10.81	7.91	7.41	EHD-RD3376
	-113	-141	-170	-31.5	-32.0	-32.5	-100mA	6.5	8.0	P11450-ND	5.46	4.00	3.74	EHD-RD3470
	-113	-141	-170	-31.4	-32.0	-32.6	-150mA	6.5	9.0	P11451-ND	5.68	4.16	3.90	EHD-RD3471
	-113	-141	-200	-22.5	-24.0	-25.5	-180mA	4.3	6.0	P11452-ND	5.85	4.29	4.01	EHD-RD3363
	-113	-141	-170	-11.0	-12.0	-13.0	-200mA	4.3	6.0	P11453-ND	6.90	5.05	4.73	EHD-RD3320
3	113	141	170	11.0	12.0	13.0	300mA	4.5	7.0	P11454-ND	7.64	5.59	5.23	EHD-RD3326
4	-113	-141	-170	-4.75	-5.10	-5.35	-30mA	—	—	P11455-ND	6.67	4.89	4.57	EHD-RD3306
5	90	141	170	11.0	12.0	13.0	100mA	—	10.0	P11456-ND◆	6.87	5.03	4.71	EHD-RD3323
	113	141	170	18.5	20.0	21.5	100mA	—	11.0	P11457-ND	9.81	7.18	6.72	EHD-RD3353
6	225	310	391	22.0	24.0	26.0	100mA	4.7	7.0	P11458-ND	9.25	6.77	6.34	EHD-RD3360
7	225	282	338	11.0	12.0	13.0	400mA	4.7	7.0	P11459-ND	12.16	8.90	8.33	EHD-RD3371
	225	282	338	23.0	24.0	25.0	400mA	4.7	7.0	P11460-ND	10.27	7.51	7.03	EHD-RD3364A
8	113	141	170	18.5	20	21.5	80mA	7.2	10	P13451-ND◆	17.45	12.77	11.95	EHD-RD3356

◆ ***RoHS Compliant***

SXU SERIES

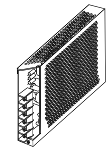

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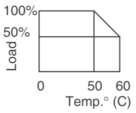

Features: • AC (AC85-132V) • Safety Approvals: UL, CSA • EMI: FCC Class "B", CISPR-B, VCCI-2 • Built-in Overvoltage/Overcurrent Protection • Operating Temperature: 0°C ~ 50°C • Metal Chassis with Cover • Compact, Low-Profile Packages • Three Year Factory Warranty

General Specifications: • Input Frequency: 50/60Hz (47~63 Hz) • Output Adjust Range: ±10% • Over Voltage Protection: Zener Limiter (Output Shutdown: for 50, 100 and 150 Models). • Over Current Protection: Over 105% (Automatic Recovery). • Temperature Coefficient: 0.02% / °C • Rise Time: 100 mS maximum (at 25°C nominal input/output) and 300 mS maximum for 100 & 150 Models • Hold-Up Time: 20mS (typical) • Storage Temperature: Temperature: -20°C ~ 85°C • Humidity: 20-85% RH (Non Condensing) • Dielectric Withstanding Voltage: Models 15W, 30W & 50W: Primary - Secondary: AC 2000V / 1 minute, Primary Case: AC 2000V / 1 minute, Secondary Case: AC 500V / 1 minute. Models 100W and 150W: Primary - Secondary: AC 2000V / 1 minute, Primary Case: AC 1500V / 1 minute, Secondary Case: AC 500V / 1 minute • Leakage Current: 0.5 mA maximum • Isolation Resistance: Input-Output-Case 100MΩ minimum • Shock Test Procedures: .020" (0.5mm) width, 10-55 Hz / 1 minute cycle, 3 directions each 30 minutes 20G (3 directions each 3 times).

Input Voltage	Input Current A(typ)	Inrush Current A(typ)	Output Voltage (VDC)	Output Current (A)	Effi-ciency	Line Reg. (mV)	Load Reg. (mV)	Ripple Noise (mVp-p)	Dimensions Inch (mm) HxWxD	Digi-Key Part No.	Price Each 1	10	25	50	Volgen Part No.
SX15U — 15 Watts															
85 - 132	0.3	10	5	3.0	73%	20	40	100	1.34 x 2.72 x 3.31 (34 x 69 x 84)	62-1001-ND◆	51.08	46.71	39.13	37.88	SX15U-05S
	0.3	10	12	1.3	76%	40	60	150		62-1002-ND◆	51.08	46.71	39.13	37.88	SX15U-12S
	0.3	10	15	1.0	76%	40	60	150		62-1003-ND◆	51.08	46.71	39.13	37.88	SX15U-15S
	0.3	10	24	0.7	78%	60	150	200		62-1004-ND	51.08	46.71	39.13	37.88	SX15U-24S

◆ ***RoHS Compliant***

SP and SPN SERIES Universal Input

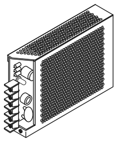

Derating Temperature:

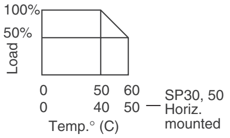

Features:
- Universal Input (AC85-264V) • International Safety Approvals including: IEC801-2, -3, -4 & EMI: FCC Class "B", EN55022-B, VCCI-II, CE
- Built-in Overvoltage/Overcurrent Protection • Operating Temperature: 0°C ~ 60°C • Lightweight Construction • Metal Chassis with Cover
- 3 Year Factory Warranty

General Specifications:
- Input Frequency: 50/60Hz (47-63Hz) • Output Adjust Range: ±10% • Output Ripple (100/230VAC, Full load): 150mV / 75mVp-p maximum DC-100MHz • Over Voltage Protection: Zener Limiter • Over Current Protection: Over 105% (Auto. Recovery) • Temperature Coefficient: 0.02% / °C maximum • Rise Time: 1600 mS maximum • Storage Temperature and Humidity: Temperature: -20°C ~ 85°C. Humidity: 20-85% RH (Non Condensing) • Dielectric Withstanding Voltage: Primary - Secondary: AC 3000V / 1 minute, Primary Case: AC 1500V / 1 minute, Secondary Case: AC 500V / 1 minute • Leakage Current (100 / 230VAC): 0.5 / 0.75mA maximum • Isolation Resistance: Input-Output-Case 100MΩ minimum
- Shock Test Procedures: Vibration: .020" (0.5mm) width, 10-50 Hz / 1 minute cycle, 3 directions each 30 minutes, Shock: 20G (3 directions each 3 times)

Single Output

Input Voltage	Input Current A(typ)	Hold-Up Time mS(typ)	Inrush Current A(typ)	Output Voltage (VDC)	Output Current @115V (A)	@230V	Effi-ciency	Line Reg. (mV)	Load Reg. (mV)	Dimensions Inch (mm) HxWxD	Digi-Key Part No.	Price Each 1	10	25	50	Volgen Part No.
SP30U — 30 Watts																
85-264	0.5-0.33	30-180	12-28	3.3	6.0	7.0	70%	20	40	1.30 x 3.11 x 4.88 (33 x 79 x 124)	62-1027-ND	70.00	64.00	53.79	52.07	SP30U-03S
SPN15 — 15 Watts																
85-264	1-1.3	50	13-31	5	3.0	3.6	75%	10	40	1.26 x 2.8 x 3.41 (32 x 71 x 86.5)	62-1060-ND◆	50.66	44.33	40.53	32.93	SPN15-05S
	1-1.3	50	13-31	12	1.25	1.5	78%	10	40		62-1061-ND◆	50.66	44.33	40.53	32.93	SPN15-12S
	1-1.3	50	13-31	15	1.0	1.2	79%	10	40		62-1062-ND◆	50.66	44.33	40.53	32.93	SPN15-15S
	1-1.3	50	13-31	24	0.65	0.8	80%	20	80		62-1063-ND◆	50.66	44.33	40.53	32.93	SPN15-24S
	1-1.3	50	13-31	48	0.3	0.4	80%	40	160		62-1064-ND	50.66	44.33	40.53	32.93	SPN15-48S
SPN30 — 30 Watts — RoHS Compliant																
85-264	1-1.3	50	13-31	5	6.0	6.0	75%	10	40	1.26 x 2.95 x 4.39 (32 x 75 x 111.5)	62-1065-ND	64.00	56.00	51.20	41.60	SPN30-05S
	1-1.3	50	13-31	12	2.6	3.0	78%	10	40		62-1066-ND	64.00	56.00	51.20	41.60	SPN30-12S
	1-1.3	50	13-31	15	2.1	2.5	79%	10	40		62-1067-ND	64.00	56.00	51.20	41.60	SPN30-15S
	1-1.3	50	13-31	24	1.4	1.5	80%	20	80		62-1068-ND	64.00	56.00	51.20	41.60	SPN30-24S
	1-1.3	50	13-31	48	0.7	0.8	80%	40	160		62-1069-ND	64.00	56.00	51.20	41.60	SPN30-48S
SPN50 — 50 Watts — RoHS Compliant																
85-264	1-1.3	50	13-31	5	10	10	75%	10	40	1.46 x 3.17 x 5.29 (37 x 80 x 134.5)	62-1070-ND	71.17	65.08	61.01	52.88	SPN50-05S
	1-1.3	50	13-31	12	4.2	5	78%	10	40		62-1071-ND	71.17	65.08	61.01	52.88	SPN50-12S
	1-1.3	50	13-31	24	2.1	2.5	80%	20	80		62-1072-ND	71.17	65.08	61.01	52.88	SPN50-24S
	1-1.3	50	13-31	48	1.1	1.1	80%	40	160		62-1073-ND	71.17	65.08	61.01	52.88	SPN50-48S
SPN75 — 75 Watts																
85-264	0.55-1.0	40-50	16-39	5	15.0	15.0	78%	10	40	1.52 x 3.47 x 7.00 (39 x 88 x 178)	62-1040-ND◆	89.08	84.24	80.00	75.75	SPN75-05S
	0.55-1.0	40-50	16-39	12	6.5	6.5	82%	10	20		62-1041-ND◆	89.08	84.24	80.00	75.75	SPN75-12S
	0.55-1.0	40-50	16-39	24	3.2	3.2	83%	20	40		62-1042-ND◆	89.08	84.24	80.00	75.75	SPN75-24S
	0.55-1.0	40-50	16-39	48	1.6	1.6	83%	20	40		62-1043-ND	89.08	84.24	80.00	75.75	SPN75-48S
SPN100 — 100 Watts																
85-264	0.66-1.3	50	15-25	5	20.0	20.0	79%	10	20	1.54 x 3.66 x 8.15 (39 x 93 x 207)	62-1044-ND	118.48	112.04	106.40	100.75	SPN100-05S
	0.66-1.3	50	15-25	12	8.6	8.6	83%	10	20		62-1045-ND◆	118.48	112.04	106.40	100.75	SPN100-12S
	0.66-1.3	50	15-25	15	7.0	7.0	83%	10	20		62-1046-ND◆	118.48	112.04	106.40	100.75	SPN100-15S
	0.66-1.3	50	15-25	24	4.4	4.4	83%	20	40		62-1047-ND◆	118.48	112.04	106.40	100.75	SPN100-24S
	0.66-1.3	50	15-25	48	2.2	2.2	84%	20	40		62-1048-ND	118.48	112.04	106.40	100.75	SPN100-48S
SPN150 — 150 Watts — RoHS Compliant																
85-264	1.00-1.3	50	13-31	5	30.0	30.0	78%	10	20	1.77 x 4.21 x 8.5 (45 x 107 x 216)	62-1049-ND	142.49	134.74	127.95	121.17	SPN150-05S
	1.00-1.3	50	13-31	12	13.0	13.0	82%	10	20		62-1050-ND	142.49	134.74	127.95	121.17	SPN150-12S
	1.00-1.3	50	13-31	24	6.5	6.5	83%	20	40		62-1051-ND	142.49	134.74	127.95	121.17	SPN150-24S
	1.00-1.3	50	13-31	48	3.3	3.3	83%	20	40		62-1052-ND	142.49	134.74	127.95	121.17	SPN150-48S

◆ ***RoHS Compliant***

(Continued)

M

Triple Output (no minimum load required)

Input Voltage	Hold-Up Time Ms(typ)	Output Voltage (VDC)	Output Current (A)	Line Reg. (mV)	Load Reg (mV)	Ripple Noise (mVp-p)	Dimensions Inch (mm) HxWxD	Digi-Key Part No.	Price Each				Volgen Part No.
									1	10	25	50	
SP15U — 15 Watts — RoHS Compliant													
85-264	20 20 20	5V 12V -12V	2.0 .50 .50	40 40 40	100 100 100	150 150 150	4.68 x 3.29 x 1.27 (119 x 84 x 32)	62-1088-ND	76.77	70.20	62.67	60.94	SP15U-0522T
85-264	20 20 20	5V 15V -15V	2 .45 .45	40 40 40	100 100 100	150 150 150	4.68 x 3.29 x 1.27 (119 x 84 x 32)	62-1074-ND	76.77	70.20	62.67	60.94	SP15U-0533T
SP30U — 30 Watts — RoHS Compliant													
85-264	20 20 20	5V 12V -12V	4.0 1.2 .60	40 40 40	100 100 100	150 150 150	5.87 x 3.5 x 1.3 (149 x 89 x 33)	62-1089-ND	98.23	89.81	86.36	77.96	SP30U-0522T
85-264	20 20 20	5V 15V -15V	4 1 .5	40 40 40	100 100 100	150 150 150	5.87 x 3.5 x 1.3 (149 x 89 x 33)	62-1075-ND	98.23	89.81	86.36	77.96	SP30U-0533T
SP50U — 50 Watts — RoHS Compliant													
85-264	20 20 20	5V 12V 5V	6.0 2.0 6.0	40 40 40	200 200 200	150 150 150	6.46 x 3.66 x 1.30 (164 x 93 x 33)	62-1090-ND	142.80	130.56	116.57	113.34	SP50U-0522T
85-264	20 20 20	5V 15V -15V	6.0 1.4 1.0	40 40 40	200 200 200	150 150 150	6.46 x 3.66 x 1.30 (164 x 93 x 33)	62-1091-ND	142.80	130.56	116.57	113.34	SP50U-0533T
SP80U — 80 Watts													
85-264	20 20 20	5V 15V -15V	10 2.8 1.2	40 40 40	200 200 200	150 150 150	7.48 x 3.94 x 1.58 (190 x 100 x 40)	62-1077-ND	176.17	161.08	151.01	140.94	SP80U-0533T

◆ ***RoHS Compliant***

Open Frame Power Supplies

Features:
• Universal Input (AC85-264V) • International Safety Approvals including: IEC801-2, -3, -4 and EMI: FCC Class "B", EN55022-B, VCCI-II, CE • Built-in Overvoltage/Overcurrent Protection • Operating Temperature: 10°C ~ 70°C • Lightweight Construction • Metal Chassis with Cover (optional on KLT series only) • 3 Year Factory Warranty

General Specifications:
• Input Frequency: 50/60Hz (47-63 Hz) • Output Adjust Range: ±10% on KLT series (no adjustment on KRS series) • Output Ripple (100/230VAC, Full load): 150mV / 75mVp-p maximum DC-100MHz • Over Voltage Protection: Zener Limiter • Over Current Protection: Over 105% (Auto. Recovery) • Temperature Coefficient: 0.02%/ °C maximum • Rise Time: 1600 mS maximum • Storage Temperature and Humidity: Temperature: -20°C ~ 85°C • Humidity: 20-85% RH (Non Condensing) • Dielectric Withstanding Voltage: Primary - Secondary: AC 3000V / 1 minute, Primary Case: AC 1500V / 1 minute, Secondary Case: AC 500V / 1 minute • Leakage Current (100 / 230 VAC): 0.5 / 0.75mA maximum • Isolation Resistance: Input-Output-Case 100MΩ minimum • Shock Test Procedures: Vibration: .020" (0.5mm) width, 10-50Hz / 1 minute cycle, 3 directions each 30 minutes, Shock: 20G (3 directions each 3 times)

KRS10F Series
PC Mount — Footprint 1.26" x 2.56"(32mm x 65.02mm)

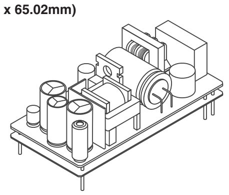

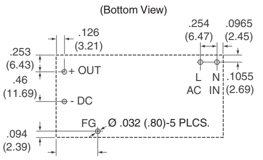

KLT Series

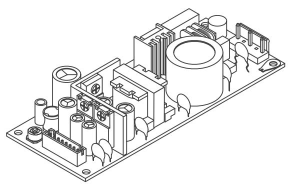

KRS10F SERIES (PC Mount) —

Single Output

Input Voltage	Output Voltage (VDC)	Output Current (A)	Line Reg. (mV)	Load Reg. (mV)	Dimensions Inch (mm) W x L x D	Digi-Key Part No.	Price Each				Volgen Part No.
							1	10	25	50	
85-264	5	2.00	20	50	1.26 x 2.56 x .65 (32 x 65.02 x 16.51)	62-1078-ND	21.87	19.83	19.53	18.99	KRS10F-05
	12	0.84	20	50		62-1079-ND	21.87	19.83	19.53	18.99	KRS10F-12
	15	0.65	20	50		62-1080-ND	21.87	19.83	19.53	18.99	KRS10F-15
	24	0.42	20	50		62-1081-ND	21.87	19.83	19.53	18.99	KRS10F-24

KLT SERIES —

Triple Output

Input Voltage	Output Voltage (VDC)	Output Current (A)	Line Reg. (mV)	Load Reg (mV)	Input Housing	Contacts	Output Housing	Contacts	Dimensions Inch (mm) LxWxH	Digi-Key Part No.	Price Each				Volgen Part No.
											1	10	25	50	
15 Watt															
85-264	5V 12V -12V	2.0 .50 .50	50 50 50	100 120 120	455-1186-ND	455-1319-1-ND	455-1902-ND	455-1135-1-ND	5.512 x 2.559 x .89 (140 x 65 x 22.60)	62-1082-ND	44.67	40.49	39.89	38.78	KLT15F-0522
85-264	5V 15V -15V	2.0 .45 .45	50 50 50	100 120 120	455-1186-ND	455-1319-1-ND	455-1902-ND	455-1135-1-ND	5.512 x 2.559 x .89 (140 x 65 x 22.60)	62-1083-ND	44.67	40.49	39.89	38.78	KLT15F-0533
Cover for KLT15 Power Supplies										62-1084-ND	8.80	7.98	—	—	KLT15 COVER
30 Watt															
85-264	5V 12V -12V	4.0 1.2 .50	50 50 50	100 120 120	455-1186-ND	455-1133-1-ND	455-1187-ND	455-1133-1-ND	5.512 x 2.559 x .89 (140 x 65 x 22.60)	62-1085-ND	50.35	45.64	44.96	43.71	KLT30F-0522

M

Wall and Desktop Transformers

EISA COMPLIANT

WE SELL ENERGY STAR

The Energy Independence and Security Act (EISA) OF 2007 mandates that external power supplies sold in the U.S. meet both a minimum efficiency percentage based on rated output wattage, and a maximum power output of 0.5W in a no-load condition. Becoming effective on July 1, 2008, this makes the same "level IV" efficiency standards created under the voluntary **Energy Star** program and mandatory **California Energy Commission (CEC)** regulations compulsory nationwide. All CUI Inc. EPS, ETS, EMS and EMT series models meet or exceed EISA 2007 standards and are legal for use in all 50 states and territories. For further information, please view the EISA 2007 product training module available at Digikey.com.

Fig. 1 — Multi-Plug

FEATURES: • Interchangeable AC plug • Universal Input: 90 ~ 264VAC • Continuous short circuit protection • Conductive EMI meets CISPR/FCC Class B • High Efficiency: 75% typical • Operating Temperature: 0°C ~ 40°C

Safety Requirements: (1) UL60950 3rd edition (The blade configuration was evaluated to the Standard for Attachment Plugs and Receptacles, UL498) (2) cUL, CSA C22.2, No. 60950 (3) TUV, EN60950:2000 (4) CE (5) GS

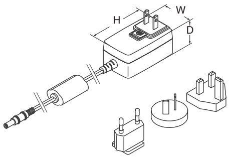

Fig. 2 — 6/15 Watt

FEATURES:
6 Watt Class 2 and UL1310 for linear power supply replacement use. Input: 100 ~ 120VAC • Over current protection • Continuous short circuit protection • EMI meets FCC Class B • Operating Temperature: 0°C ~ 40°C **Safety Requirements:** (1) UL1310 (2) cUL1310

15 Watt: Universal Input: 90 ~ 264VAC • Over current protection • Continuous short circuit protection • EMI/EMC meets FCC Class B, VCCI-II • High efficiency: 75% typical • Operating Temperature: 0°C ~ 40°C **Safety Requirements:** (1) UL (2) cUL

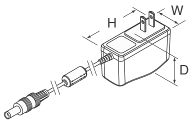

Fig. 3 — 24 Watt

FEATURES: • Universal Input: 90 ~ 264VAC • Over current protection • Continuous short circuit protection • EMI/EMC meets FCC Class B • High Efficiency: 75% typical • Operating Temperature: 0°C ~ 40°C

Safety Requirements: (1) UL (2) cUL

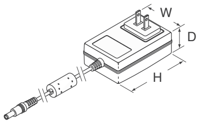

Fig. 4 — 25 Watt

FEATURES:
- Universal Input: 90 ~ 255VAC • Over voltage protection • Continuous short circuit protection • EMI meets FCC Class B, VCCI-II • High Effciency: 75% typical
- Operating Temperature: 0°C ~ 40°C

Safety Requirements: (1) UL (2) cUL (3) GS (4) CE

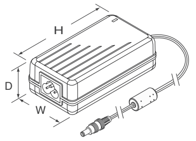

Fig. 5 — 40 Watt

FEATURES:
- Universal Input: 90 ~ 240VAC
- Over voltage protection
- Continuous short circuit protection
- EMI meets FCC Class B
- High Efficiency: 80% typical
- Operating Temperature: 0°C ~ 40°C

Safety Requirements: (1) UL (2) cUL (3) GS (4) CE

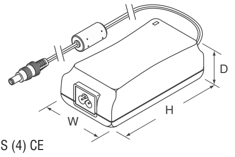

Fig. 6 — 60 Watt

FEATURES:
- Universal Input: 90 ~ 255VAC
- Over voltage protection
- Continuous short circuit protection
- EMI meets FCC Class B, VCCI-II
- High Efficiency: 85% typical
- Operating Temperature: 0°C ~ 40°C

Safety Requirements: (1) UL (2) cUL (3) GS (4) CE

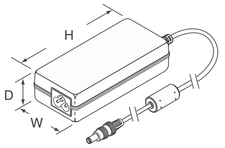

Fig. 7 — Right Angle Output Connector ***NEW!***

FEATURES:
- 100 ~ 120 VAC Input
- Regulated Output Voltage
- Over-load protected
- Short-circuit protected
- UL/cUL Certified and FCC class B compliant

Safety Requirements: Please see data sheet on Digi-Key website.

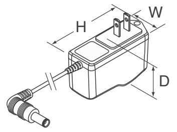

Fig.	Ratings			Dimensions — Inches (mm)	Cord Plug	Digi-Key	Price Each				CUI Inc.
	Voltage	mA	Reg.	H x W x D	Size (mm)	Part No.	1	10	50	100	Part No
Multi-Plug											
1	5VDC	1,200	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T946-P5P-ND	13.26	12.27	11.61	10.61	EMS050120-P5P-SZ
	5VDC	3,200	±6%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T377-P5P-ND	18.30	17.39	16.01	15.24	EMS050320-P5P-SZ
	6VDC	1,000	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T947-P5P-ND	13.26	12.27	11.61	10.61	EMS060100-P5P-SZ
	6VDC	3,000	±5%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T378-P5P-ND	18.30	17.39	16.01	15.24	EMS060300-P5P-SZ
	9VDC	660	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T948-P5P-ND	13.26	12.27	11.61	10.61	EMS090066-P5P-SZ
	9VDC	2,000	±5%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T379-P5P-ND	18.30	17.39	16.01	15.24	EMS090200-P5P-SZ
	12VDC	500	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T949-P5P-ND	13.26	12.27	11.61	10.61	EMS120050-P5P-SZ
	12VDC	500	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.5▲	T945-P6P-ND	13.26	12.27	11.61	10.61	EMS120050-P6P-SZ
	12VDC	1,500	±5%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T380-P5P-ND	18.30	17.39	16.01	15.24	EMS120150-P5P-SZ
	15VDC	400	±5%	2.52 x 1.59 x 1.18 (64 x 40.5 x 30)	2.1▲	T950-P5P-ND	13.26	12.27	11.61	10.61	EMS150040-P5P-SZ
	15VDC	1,200	±5%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T381-P5P-ND	18.30	17.39	16.01	15.24	EMS150120-P5P-SZ
	18VDC	1,000	±5%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T382-P5P-ND	18.30	17.39	16.01	15.24	EMS180100-P5P-SZ
	24VDC	750	±5%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	2.1‡	T383-P5P-ND	18.30	17.39	16.01	15.24	EMS240075-P5P-SZ
6 Watt Switching Wall Mount											
2	3VDC	1,000	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	1.3	T975-P7P-ND	7.16	6.80	6.27	5.96	EPS030100-P7P
	4.5VDC	1,000	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	1.3	T976-P7P-ND	7.16	6.80	6.27	5.96	EPS045100-P7P
	5VDC	1,000	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	2.5‡	T977-P6P-ND	7.16	6.80	6.27	5.96	EPS050100-P6P
	6VDC	1,000	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	1.3	T978-P7P-ND	7.16	6.80	6.27	5.96	EPS060100-P7P
	9VDC	660	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	3.5	T979-P1P-ND	6.98	6.63	6.11	5.81	EPS090066-P1P
	9VDC	660	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	2.1‡	T980-P5P-ND	6.98	6.63	6.11	5.81	EPS090066-P5P
	9VDC	660	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	1.3	T981-P7P-ND	6.98	6.63	6.11	5.81	EPS090066-P7P
	12VDC	500	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	3.5	T982-P1P-ND	6.98	6.63	6.11	5.81	EPS120050-P1P
	12VDC	500	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	2.1‡	T983-P5P-ND	6.98	6.63	6.11	5.81	EPS120050-P5P
	12VDC	500	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	1.3	T984-P7P-ND	6.98	6.63	6.11	5.81	EPS120050-P7P
	15VDC	400	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	2.1‡	T985-P5P-ND	6.98	6.63	6.11	5.81	EPS150040-P5P
	18VDC	330	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	2.1‡	T986-P5P-ND	6.98	6.63	6.11	5.81	EPS180033-P5P
	24VDC	250	±5%	2.48 x 1.40 x 1.05 (63 x 26.60 x 35.49)	2.1‡	T987-P5P-ND	6.98	6.63	6.11	5.81	EPS240025-P5P
15 Watt Switching Wall Mount											
2	5VDC	2,600	±5%	2.83 x 1.87 x 1.38 (72 x 47.6 x 35)	2.1‡	T988-P5P-ND	16.88	13.50	11.81	11.25	EPS050260UH-P5P-SZ
	6VDC	2,500	±5%	2.83 x 1.87 x 1.38 (72 x 47.6 x 35)	2.1‡	T989-P5P-ND	16.88	13.50	11.81	11.25	EPS060250UH-P5P-SZ
	9VDC	1,660	±5%	2.83 x 1.87 x 1.38 (72 x 47.6 x 35)	2.1‡	T990-P5P-ND	16.88	13.50	11.81	11.25	EPS090166UH-P5P-SZ
	12VDC	1,250	±5%	2.83 x 1.87 x 1.38 (72 x 47.6 x 35)	2.1‡	T991-P5P-ND	16.88	13.50	11.81	11.25	EPS120125UH-P5P-SZ
	15VDC	1,000	±5%	2.83 x 1.87 x 1.04 (72 x 47.6 x 26.5)	2.1‡	T992-P5P-ND	16.88	13.50	11.81	11.25	EPS150100UH-P5P-SZ
	18VDC	825	±5%	2.83 x 1.87 x 1.38 (72 x 47.6 x 35)	2.1‡	T993-P5P-ND	16.88	13.50	11.81	11.25	EPS180083UH-P5P-SZ
	24VDC	625	±5%	2.83 x 1.87 x 1.38 (72 x 47.6 x 35)	2.1‡	T994-P5P-ND	16.88	13.50	11.81	11.25	EPS240063UH-P5P-SZ
24 Watt Switching Wall Mount											
3	5VDC	4,000	±10%	3.39 x 2.20 x 1.28 (86 x 56 x 32.5)	2.1‡	T995-P5P-ND	18.38	14.70	12.87	12.21	EPS050400U-P5P-KH
	6VDC	3,500	±5%	3.39 x 2.20 x 1.28 (86 x 56 x 32.5)	2.1‡	T996-P5P-ND	18.38	14.70	12.87	12.21	EPS060350U-P5P-KH
	9VDC	2,500	±5%	3.39 x 2.20 x 1.28 (86 x 56 x 32.5)	2.1‡	T997-P5P-ND	18.38	14.70	12.87	12.21	EPS090250U-P5P-KH
	12VDC	2,000	±5%	3.39 x 2.20 x 1.28 (86 x 56 x 32.5)	2.1‡	T998-P5P-ND	18.38	14.70	12.87	12.21	EPS120200U-P5P-KH
	15VDC	1,600	±5%	3.39 x 2.20 x 1.28 (86 x 56 x 32.5)	2.1‡	T999-P5P-ND	18.38	14.70	12.87	12.21	EPS150160U-P5P-KH
	24VDC	1,000	±5%	3.39 x 2.20 x 1.28 (86 x 56 x 32.5)	2.1‡	T1000-P5P-ND	18.38	14.70	12.87	12.21	EPS240100U-P5P-KH
25 Watt Desktop Series											
4	5VDC	4,000	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T951-P5P-ND	19.80	18.81	17.33	16.50	ETS050400UTC-P5P-SZ
	6VDC	3,300	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T952-P5P-ND	19.80	18.81	17.33	16.50	ETS060330UTC-P5P-SZ
	9VDC	2,200	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T953-P5P-ND	19.80	18.81	17.33	16.50	ETS090220UTC-P5P-SZ
	12VDC	2,000	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T954-P5P-ND	19.80	18.81	17.33	16.50	ETS120200UTC-P5P-SZ
	15VDC	1,330	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T955-P5P-ND	19.80	18.81	17.33	16.50	ETS150133UTC-P5P-SZ
	18VDC	1,100	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T956-P5P-ND	19.80	18.81	17.33	16.50	ETS180110UTC-P5P-SZ
	24VDC	1,000	±5%	3.90 x 2.01 x 1.25 (99 x 51 x 31.7)	2.1‡	T957-P5P-ND	19.80	18.81	17.33	16.50	ETS240100UTC-P5P-SZ
40 Watt Desktop Series											
5	9VDC	4,000	±5%	4.20 x 2.20 x 1.30 (107.5 x 56 x 33.7)	2.1‡	T959-P5P-ND	25.50	24.23	22.32	21.25	ETS090400UTC-P5P-SZ
	12VDC	4,160	±5%	3.80 x 2.40 x 1.30 (97 x 62 x 33)	2.1‡†	T1010-P5P-ND	25.50	24.23	22.31	21.24	ETS120416UTC-P5P-SZ
	15VDC	2,700	±5%	4.20 x 2.20 x 1.30 (107.5 x 56 x 33.7)	2.1‡	T961-P5P-ND	25.50	24.23	22.32	21.25	ETS150270UTC-P5P-SZ
	24VDC	1,700	±5%	4.20 x 2.20 x 1.30 (107.5 x 56 x 33.7)	2.1‡	T962-P5P-ND	25.50	24.23	22.32	21.25	ETS240170UTC-P5P-SZ
60 Watt Desktop Series											
6	12VDC	5,000	±5%	4.50 x 1.90 x 1.20 (116 x 50 x 31)	2.1‡	T963-P5P-ND	32.90	31.26	28.79	27.41	ETS120500UTC-P5P-SZ
	15VDC	4,000	±5%	4.50 x 1.90 x 1.20 (116 x 50 x 31)	2.1‡	T964-P5P-ND	32.90	31.26	28.79	27.41	ETS150400UTC-P5P-SZ

▲ 9.5mm Long Plugs ‡ 12mm Long Plugs † Output cord is 1500mm in length

★ ***For additional plug options, please call Digi-Key and request technical assistance to build your part number. A minimum order and lead time will apply.***

(Continued)

Energy Star Wall and Desktop Transformers *(Cont.)*

Fig.	Ratings			Dimensions — Inches (mm)	Cord Plug	Digi-Key	Price Each				CUI Inc.
	Voltage	mA	Reg.	H x W x D	Size (mm)	Part No.	1	10	50	100	Part No.
6	19VDC	3,150	±5%	4.50 x 1.90 x 1.20 (116 x 50 x 31)	2.1‡	T965-P5P-ND	32.90	31.26	28.79	27.41	ETS190315UTC-P5P-SZ
	24VDC	2,500	±5%	4.50 x 1.90 x 1.20 (116 x 50 x 31)	2.1‡	T966-P5P-ND	32.90	31.26	28.79	27.41	ETS240250UTC-P5P-SZ
NEW! Right Angle Output Connectors NEW!											
7	12VAC	1,000	±5%	3.21 x 2.31 x 1.93 (81.6 x 58.7 x 49.1)	2.1	T1017-P5R-ND	11.53	9.22	8.07	7.66	EPA120100-P5R-SZ
	24VAC	500	±5%	3.21 x 2.31 x 1.93 (81.6 x 58.7 x 49.1)	2.1	T1018-P5R-ND	11.78	9.42	8.25	7.82	EPA240050-P5R-SZ
	6VDC	1,000	±5%	2.48 x 1.04 x 1.70 (63 x 26.6 x 43.3)	2.1	T1019-P5RP-ND	8.95	7.16	6.27	5.95	EPS060100-P5RP
	9VDC	660	±5%	2.48 x 1.05 x 1.69 (63 x 26.8 x 43)	2.1	T1020-P5RP-ND	8.73	6.98	6.11	5.80	EPS090066-P5RP
	12VDC	500	±5%	2.48 x 1.05 x 1.69 (63 x 26.8 x 43)	2.1	T1021-P5RP-ND	8.73	6.98	6.11	5.80	EPS120050-P5RP

▲ 9.5mm Long Plugs ‡ 12mm Long Plugs † Output cord is 1500mm in length

★ *For additional plug options, please call Digi-Key and request technical assistance to build your part number. A minimum order and lead time will apply.*

Switching and Linear Power Supply

EISA COMPLIANT

Fig. 1 — Switching Power Supply — USB A

SPECIFICATIONS: • Input Voltage Range: 90V ~ 264VAC • Frequency Range: 47Hz ~ 63Hz • Operating Temperature: 0°C ~ 40°C **Safety Requirements/EMI Standards:** Please see data sheet on Digi-Key website.

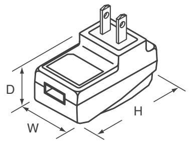

Fig. 2 — Linear Power Supply — US/Canada Transformer

SPECIFICATIONS:
- Rated Input Voltage: 120 VAC
- **Safety Requirements:** Please see data sheet on Digi-Key website.

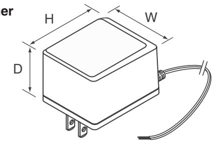

Fig. 3 Configurable Wall/Desktop Multi Plug *NEW!*

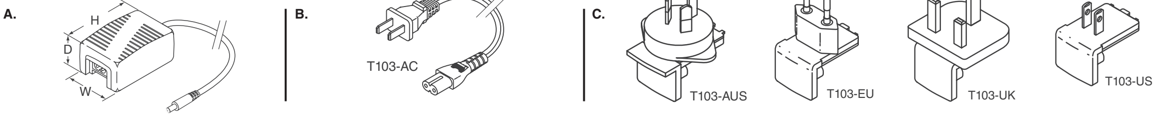

Fig.	Ratings			Dimensions — Inches (mm)	Cord Plug	Digi-Key	Price Each				CUI Inc.
	Voltage	mA	Regulation	H x W x D	Size	Part No.	1	10	50	100	Part No.
Switching Power Supply — USB A											
1	5VDC	500	±0.3V	2.40 x 1.30 x 1.38 (61 x 33 x 35)	USB A	T1002-ND	7.14	6.79	6.25	5.97	EPS050050U-I38-SZ
	5VDC	1,000	±5%	2.87 x 1.14 x 1.75 (73 x 29 x 45)	USB A	T1003-ND	8.50	8.08	7.44	7.10	EPS050100U-I38-SZ
Linear Power Supply — US/Canada Transformer											
2	9VAC	500	±5%	2.47 x 2.01 x 1.65 (63 x 51 x 42)	S/T†	T1004-ND	7.56	6.05	5.29	5.04	EPA090050-S/T-SZ
	9VAC	1,000	±5%	2.60 x 1.97 x 1.60 (66 x 50 x 41)	S/T†	T1005-ND	8.40	6.72	5.88	5.59	EPA090100-S/T-SZ
	12VAC	500	±5%	2.47 x 2.01 x 1.65 (63 x 51 x 42)	S/T†	T1007-ND	8.10	6.48	5.67	5.40	EPA120050-S/T-SZ
	12VAC	1,000	±5%	3.21 x 2.31 x 1.93 (82 x 59 x 49)	S/T†	T1008-ND	11.52	9.22	8.06	7.68	EPA120100-S/T-SZ
	24VAC	500	±5%	3.21 x 2.31 x 1.93 (82 x 59 x 49)	S/T†	T1009-ND	11.77	9.42	8.24	7.84	EPA240050-S/T-SZ
NEW! Configurable Wall/Desktop Multi Plug NEW!											
3A	5VDC	4,000	4.5 ~ 5.5V	3.50 x 2.20 x 1.61 (89 x 56 x 41)	2.1	T1011-P5P-ND	16.80	15.96	14.70	13.99	EMT050400-P5P-KH
	6VDC	3,500	±5%	3.50 x 2.20 x 1.61 (89 x 56 x 41)	2.1	T1012-P5P-ND	16.80	15.96	14.70	13.99	EMT060350-P5P-KH
	9VDC	2,500	±5%	3.50 x 2.20 x 1.61 (89 x 56 x 41)	2.1	T1013-P5P-ND	16.80	15.96	14.70	13.99	EMT090250-P5P-KH
	12VDC	2,500	±5%	3.50 x 2.20 x 1.61 (89 x 56 x 41)	2.1	T1014-P5P-ND	16.80	15.96	14.70	13.99	EMT120250-P5P-KH
	15VDC	2,000	±5%	3.50 x 2.20 x 1.61 (89 x 56 x 41)	2.1	T1015-P5P-ND	16.80	15.96	14.70	13.99	EMT150200-P5P-KH
	24VDC	1,250	±5%	3.50 x 2.20 x 1.61 (89 x 56 x 41)	2.1	T1016-P5P-ND	16.80	15.96	14.70	13.99	EMT240125-P5P-KH
3B	—	—	—	—	—	T103-AC-ND	3.50	3.33	3.06	2.92	EMT-AC
3C	—	—	—	—	—	T103-US-ND	.80	.76	.70	.67	EMT-US
	—	—	—	—	—	T103-EU-ND	.96	.91	.84	.80	EMT-EU
	—	—	—	—	—	T103-UK-ND	1.28	1.22	1.12	1.07	EMT-UK
	—	—	—	—	—	T103-AUS-ND	.96	.91	.84	.80	EMT-AUS

† "S/T" = Stripped/Tinned

Standard Wall and Desktop Transformers

Fig. 1 — Multi-Plug

SPECIFICATIONS: • Interchangeable AC plug • Universal Input: 90 ~ 264VAC • Continuous short circuit protection • Conductive EMI meets CISPR/FCC Class B • High Efficiency: 75% typical • Operating Temperature: 0°C ~ 40°C • **Safety Requirements:** (1) UL60950 3rd edition (The blade configuration was evaluated to the Standard for Attachment Plugs and Receptacles, UL498) (2) cUL, CSA C22.2, No. 60950 (3) TUV, EN60950:2000 (4) CE (5) GS

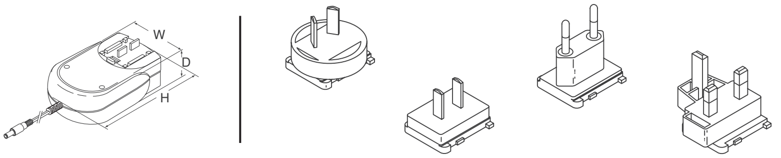

Fig. 2 — US/Canada Transformer

SPECIFICATIONS:
- **Safety Requirements:** Please see data sheet on Digi-Key website.

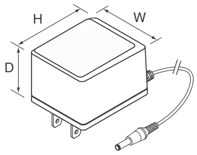

Fig. 3 — European Transformer

SPECIFICATIONS:
- **Safety Requirements:** (1) TUV/GS (2) CE

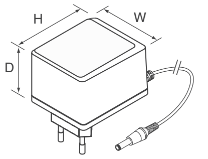

Fig.	Ratings			Dimensions — Inches (mm)	Cord Plug	Digi-Key	Price Each				CUI Inc.
	Voltage	mA	Regulation	H x W x D	Size (mm)	Part No.	1	10	50	100	Part No.
Multi-Plug											
1	5VDC	5,000	±6%	4.24 x 2.27 x 1.32 (108 x 58 x 33)	2.1▲	T366-P5P-ND◆	37.64	34.82	32.94	30.11	DMS050500-P5P-IC
	9VDC	3,300	±3%	4.24 x 2.27 x 1.32 (108 x 58 x 33)	2.1▲	T367-P5P-ND	37.64	34.82	32.94	30.11	DMS090330-P5P-IC
	12VDC	2,500	±2%	4.24 x 2.27 x 1.32 (108 x 58 x 33)	2.1▲	T368-P5P-ND◆	37.64	34.82	32.94	30.11	DMS120250-P5P-IC
	15VDC	2,000	±2%	4.24 x 2.27 x 1.32 (108 x 58 x 33)	2.1▲	T369-P5P-ND◆	37.64	34.82	32.94	30.11	DMS150200-P5P-IC
	24VDC	1,250	±2%	4.24 x 2.27 x 1.32 (108 x 58 x 33)	2.1▲	T370-P5P-ND◆	37.64	34.82	32.94	30.11	DMS240125-P5P-IC
US/Canada Transformer 120VAC/60Hz Input											
2	5VDC	300	5%	2.50 x 1.72 x 1.72 (64 x 44 x 39)	2.5◊	T314-P6P-ND◆	7.38	5.90	5.17	4.90	DPR050030-P6P-SZ
	5VDC	1,500	5%	4.70 x 3.00 x 2.50 (121 x 78 x 64)	2.1◊	T311-P5P-ND‡	37.42	32.75	31.06	27.13	DTR050150-P5P
	9VDC	650	—	2.59 x 1.96 x 1.59 (66 x 50 x 41)	2.1▲	T514-P5P-ND◆	6.58	5.26	4.61	4.37	DPD090065-P5P-SZ
	9VDC	800	5%	3.21 x 2.31 x 1.93 (82 x 59 x 49)	2.1◊	T435-P5P-ND◆	12.03	9.62	8.42	7.99	DPR090080-P5P-SZ

◆ ***RoHS Compliant*** ‡ Table Top Style † "S/T" = Stripped/Tinned ▲ 9.5mm Long Plugs ◊ 12mm Long Plugs

★ *For additional plug options, please call Digi-Key and request technical assistance to build your part number. A minimum order and lead time will apply.*

(Continued)

Fig. 4 — 12 Watt Power Strip Type

SPECIFICATIONS:
- Input Voltage: AC90V ~ 264V
- Frequency: 50Hz ~ 60Hz
- Minimum Load Current: 0A
- Load Regulation: 5%
- Short Circuit and Over-current Protection: Shutoff and Auto Restart
- **Safety Requirements:** Please see data sheet on Digi-Key website.

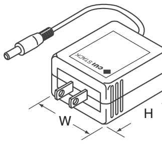

Fig. 5 — Small Desktop Series

SPECIFICATIONS:
- Input Voltage Range: AC90V ~ 264V
- Frequency: 50Hz ~ 60Hz
- Load Regulation: 5%
- Minimum Load Current: 0A
- Short Circuit and Over-current Protection: Shutoff and Auto Restart
- **Safety Requirements:** Please see data sheet on Digi-Key website.

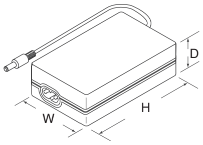

Fig. 6 — 50 Watt Desktop Series

SPECIFICATIONS:
- Rated Input Voltage: AC100V ~ 240V
- EMI Requirement: (1) Meet FCC; Class B, CE, VCCI-II
- **Safety Requirements:** Please see data sheet on Digi-Key website.

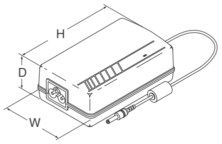

Fig.	Ratings			Dimensions — Inches (mm)	Cord Plug	Digi-Key	Price Each				CUI Inc.
	Voltage	mA	Regulation	H x W x D	Size (mm)	Part No.	1	10	50	100	Part No.
2	12VAC	1,000	No	2.86 x 2.19 x 1.77 (73 x 56 x 45)	S/T†	T623-ND	6.45	5.16	4.52	4.29	DPA120100-S/T-TK
	12VAC	2,000	No	3.30 x 2.48 x 2.16 (84 x 63 x 55)	3.5	T609-P1P-ND	14.28	11.42	10.00	9.48	DPA120200-P1P
US/Canada Transformer 120VAC/60Hz Input — RoHS Compliant											
2	9VDC	200	No	2.20 x 1.73 x 1.41 (56 x 44 x 36)	2.1◊	T967-P5P-ND	5.23	4.18	3.66	3.49	DPD090020-P5P-SZ
	9VDC	500	No	2.47 x 2.01 x 1.65 (63 x 51 x 42)	2.1◊	T968-P5P-ND	6.20	4.96	4.34	4.14	DPD090050-P5P-SZ
	12VDC	500	No	2.60 x 1.97 x 1.59 (66 x 50 x 41)	2.1◊	T969-P5P-ND	6.30	5.04	4.41	4.20	DPD120050-P5P-SZ
	12VDC	800	No	3.21 x 2.31 x 1.93 (82 x 59 x 49)	2.1◊	T970-P5P-ND	7.78	6.22	5.45	5.19	DPD120080-P5P-SZ
	12VDC	800	No	3.21 x 2.31 x 1.93 (82 x 59 x 49)	2.5◊	T1001-P6P-ND	7.78	6.22	5.45	5.17	DPD120080-P6P-SZ
	24VDC	400	No	3.24 x 2.25 x 1.96 (82 x 57 x 50)	2.5◊	T971-P6P-ND	8.45	6.76	5.92	5.64	DPD240040-P6P-SZ
	12VAC	1,000	No	2.60 x 1.97 x 1.59 (66 x 50 x 41)	S/T†	T972-ND	6.38	5.10	4.47	4.25	DPA120100-S/T-SZ
European Transformer 230VAC/50Hz Input – RoHS Compliant											
3	9VDC	500	No	2.91 x 2.05 x 1.61 (74 x 52 x 41)	2.1◊	T973-P5P-ND	6.93	5.54	4.85	4.62	DPD090050E-P5P-SZ
	12VDC	800	No	3.21 x 2.31 x 1.92 (82 x 59 x 49)	2.1◊	T974-P5P-ND	8.93	7.14	6.25	5.95	DPD120080E-P5P-SZ
12 Watt Power Strip Type – RoHS Compliant											
4	5VDC	2,000	5%	2.36 x 1.73 x 0.98 (60 x 44 x 25)	2.1▲	T450-P5P-ND	16.63	13.30	11.65	11.09	DPS050200UPS-P5P-SZ
	6VDC	2,000	5%	2.36 x 1.73 x 0.98 (60 x 44 x 25)	2.1▲	T451-P5P-ND	16.63	13.30	11.65	11.09	DPS060200UPS-P5P-SZ
	9VDC	1,300	5%	2.36 x 1.73 x 0.98 (60 x 44 x 25)	2.1▲	T460-P5P-ND	16.63	13.30	11.65	11.09	DPS090130UPS-P5P-SZ
	12VDC	1,000	5%	2.36 x 1.73 x 0.98 (60 x 44 x 25)	2.1▲	T461-P5P-ND	16.63	13.30	11.65	11.09	DPS120100UPS-P5P-SZ
	18VDC	660	5%	2.36 x 1.73 x 0.98 (60 x 44 x 25)	2.1▲	T462-P5P-ND	16.63	13.30	11.65	11.09	DPS180066UPS-P5P-SZ
	24VDC	500	5%	2.36 x 1.73 x 0.98 (60 x 44 x 25)	2.1▲	T455-P5P-ND	16.63	13.30	11.65	11.09	DPS240050UPS-P5P-SZ
12 Watt Small Desktop – RoHS Compliant											
5	5VDC	2,500	5%	2.91 x 1.81 x 0.98 (74 x 46 x 25)	2.1▲	T850-P5P-ND	19.18	15.34	13.43	12.79	DTS050250SUDC-P5P-SZ
	6VDC	2,000	5%	2.95 x 1.87 x 1.04 (75 x 48 x 27)	2.1▲	T851-P5P-ND	19.18	15.34	13.43	12.79	DTS060200SUDC-P5P-SZ
	9VDC	1,330	5%	2.95 x 1.87 x 1.04 (75 x 48 x 27)	2.1▲	T852-P5P-ND	19.18	15.34	13.43	12.79	DTS090133SUDC-P5P-SZ
	12VDC	1,000	5%	2.95 x 1.87 x 1.04 (75 x 48 x 27)	2.1▲	T853-P5P-ND	19.18	15.34	13.43	12.79	DTS120100SUDC-P5P-SZ
	18VDC	670	5%	2.95 x 1.87 x 1.04 (75 x 48 x 27)	2.1▲	T854-P5P-ND	19.18	15.34	13.43	12.79	DTS180067SUDC-P5P-SZ
	24VDC	500	5%	2.95 x 1.87 x 1.04 (75 x 48 x 27)	2.1▲	T855-P5P-ND	19.18	15.34	13.43	12.79	DTS240050SUDC-P5P-SZ
50 Watt Desktop Series – RoHS Compliant											
6	15VDC	3,300	5%	4.26 x 2.60 x 1.42 (108 x 66 x 36)	2.1◊	T860-P5P-ND	34.75	27.80	24.33	23.08	DTS150330UTC-P5P-SZ

◆ ***RoHS Compliant*** ‡ Table Top Style † "S/T" = Stripped/Tinned ▲ 9.5mm Long Plugs ◊ 12mm Long Plugs

★ ***For additional plug options, please call Digi-Key and request technical assistance to build your part number. A minimum order and lead time will apply.***

Plug Options For All CUI Supplies

Additional plug options

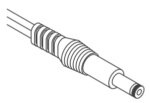

AVAILABLE! CUI INC Custom Plug Overmolding without large minimum orders and long lead times! Straight or right angle plugs are available in the following sizes: P1, P5, P6, P7, P12, P13 or P14

For additional plug and polarity options available, please call Digi-Key and request technical assistance to build your custom part number.

(Overmolding Service not available on Medical Switching Power Supplies.)

BUILD YOUR PART NUMBER: ***DPS120125-*** ☐☐☐☐

Choose an In stock CUI Power Supply
Z: special over molding code — Z
Choose P1, P5, P6, P7, P12, P13 or P14 plug options — 5, 6, 7
If applicable: R-Right angle — R
P or N: For DC Output choose Center Positive or Negative — P, N

- Lead-Time: 4-6 weeks
- Lead time can be expedited in 3-4 weeks by air freight at an additional charge paid by the customer. Please call for more details.
- Non-Standard plug barrel lengths are available upon request
- Minimum Order: 100 pieces

P-1 (3.5mm Male)

Tip is Positive, Sleeve is Negative

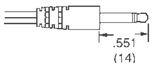

P-5 (2.1mm Female)

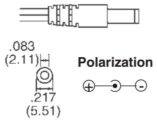

P-6 (2.5mm Female)

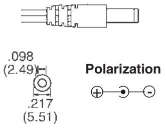

P-7 (1.3mm Female)

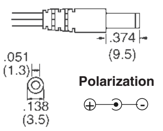

P-12 (2.35mm Female)

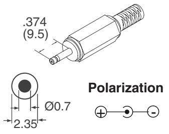

P-13 (1.7mm Female)

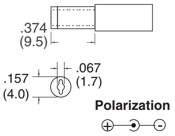

P-14 (1.7mm Female)

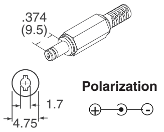

AC International Power Cords

Fig. 1

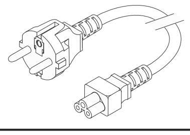

AC Cord for Europe

Fig. 2

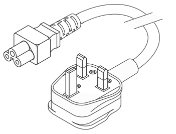

AC Cord for United Kingdom

Fig. 3

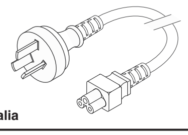

AC Cord for Australia

Fig.	Description	Wire Gauge	Color	Overall Diameter Approx. (mm)	Digi-Key Part No.	Price Each 1	10	50	100	CUI Inc. Part No.
1	AC Cord for Europe	H05VV-F 3G 1.0mm²	Black	7.0 ±0.15	T100-DK-ND	5.68	4.54	3.97	3.77	AC7-DK
2	AC Cord for United Kingdom	H05VV-F 3G 0.75mm²	Black	6.7 ±0.15	T101-DK-ND	9.48	7.58	6.64	6.30	AC8-DK
3	AC Cord for Australia	H05VV-F 3G 0.75mm²	Black	6.7 ±0.15	T102-DK-ND	5.40	4.32	3.78	3.59	AC9-DK

V-INFINITY
a division of CUI INC

AC-DC Converters

Encapsulated Board Mount Switching Power Supplies FSC-S Series

Features:

- Screw terminals for easy installation
- Universal input 85 ~ 264VAC, 110 ~ 340VDC
- Encapsulated, compact case
- High efficiency
- 100kHz fixed frequency
- Fixed output voltage
- Thermal shutdown
- Output short circuit protection
- Low output ripple and noise
- Isolated output
- 2 year warranty

Note: For safety and EMI certifications please see series data sheets.

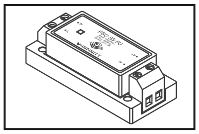

Voltage (V)	Current (A)	Size (Inch) L x W	Digi-Key Part No.	Price Each 1	10	25	V-Infinity Part No.
			FSC-S5 Series				
3.3	1.25	2.835 x 1.24	102-1571-ND	28.76	28.05	27.33	FSC-S5-3R3U
5	1.0	2.835 x 1.24	102-1572-ND	28.76	28.05	27.33	FSC-S5-5U
12	0.42	2.835 x 1.24	102-1573-ND	28.76	28.05	27.33	FSC-S5-12U
15	0.33	2.835 x 1.24	102-1574-ND	28.76	28.05	27.33	FSC-S5-15U
24	0.21	2.835 x 1.24	102-1575-ND	28.76	28.05	27.33	FSC-S5-24U
			FSC-S15 Series				
3.3	3.0	3.606 x 2.0	102-1576-ND	52.36	51.06	49.75	FSC-S15-3R3U
5	3.0	3.606 x 2.0	102-1577-ND	52.36	51.06	49.75	FSC-S15-5U
12	1.3	3.606 x 2.0	102-1578-ND	52.36	51.06	49.75	FSC-S15-12U
15	1.0	3.606 x 2.0	102-1579-ND	52.36	51.06	49.75	FSC-S15-15U
24	0.65	3.606 x 2.0	102-1580-ND	52.36	51.06	49.75	FSC-S15-24U
			FSC-S30 Series				
3.3	6.0	4.567 x 2.311	102-1581-ND	67.34	65.66	63.98	FSC-S30-3R3U
5	6.0	4.567 x 2.311	102-1582-ND	67.34	65.66	63.98	FSC-S30-5U
12	2.5	4.567 x 2.311	102-1583-ND	67.34	65.66	63.98	FSC-S30-12U
15	2.0	4.567 x 2.311	102-1584-ND	67.34	65.66	63.98	FSC-S30-15U
24	1.25	4.567 x 2.311	102-1585-ND	67.34	65.66	63.98	FSC-S30-24U

25/45/65 Watt Open Frame Switching Power Supplies

Features: • Output over-current protected • Output over-voltage protected • Universal input voltage: 85 ~ 264VAC, 47 ~ 63Hz • Compact size • Output voltage trimable ±5% • Two year warranty

Note: For safety and EMI certifications please see data sheets

Fig. 1

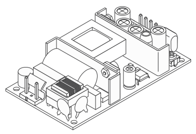

Size (Inch) L x W: 3.5 x 2

Fig. 2

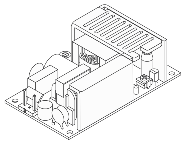

Size (Inch) L x W: 4.0 x 2

Fig.	Volt. (V)	Current (A)	Mating Connectors Housing Input	Mating Connectors Housing Output	Mating Connectors Contacts	Digi-Key Part No.	Price Each 1	10	50	V-Infinity Part No.
1	5	4.4	WM2101	WM2102	WM2300	102-1325-ND	20.76	19.72	18.17	VOF-25-5
	12	2.0	WM2101	WM2102	WM2300	102-1326-ND	20.76	19.72	18.17	VOF-25-12
	15	1.6	WM2101	WM2102	WM2300	102-1327-ND	20.76	19.72	18.17	VOF-25-15
	24	1.0	WM2101	WM2102	WM2300	102-1328-ND	20.76	19.72	18.17	VOF-25-24
2	3.3	6.0	WM2101	WM2102	WM2300	102-1329-ND	26.68	25.35	23.35	VOF-45-3.3
	5	6.0	WM2101	WM2102	WM2300	102-1330-ND	26.68	25.35	23.35	VOF-45-5
	12	3.7	WM2101	WM2102	WM2300	102-1331-ND	26.68	25.35	23.35	VOF-45-12
	15	3.0	WM2101	WM2102	WM2300	102-1332-ND	26.68	25.35	23.35	VOF-45-15
	24	1.9	WM2101	WM2102	WM2300	102-1333-ND	26.68	25.35	23.35	VOF-45-24
	48	0.93	WM2101	WM2102	WM2300	102-1334-ND	26.68	25.35	23.35	VOF-45-48
	5	8.0	WM2101	WM2102	WM2300	102-1335-ND	29.58	28.10	25.88	VOF-65-5
	12	5.4	WM2101	WM2102	WM2300	102-1336-ND	29.58	28.10	25.88	VOF-65-12
	15	4.3	WM2101	WM2102	WM2300	102-1688-ND	29.58	28.10	25.88	VOF-65-15
	24	2.7	WM2101	WM2102	WM2300	102-1337-ND	29.58	28.10	25.88	VOF-65-24
	48	1.35	WM2101	WM2102	WM2300	102-1338-ND	29.58	28.10	25.88	VOF-65-48

5/15 Watt FSK Power Modules

Features:

- Encapsulated, compact case
- Universal input
- HI-POT tested
- Inrush current limiting
- Over-load protection
- Over-temperature protection
- Built-in EMI filter on FSK-S15 series
- Fixed switching frequency
- High efficiency
- 2 year warranty

Note: For safety and EMI certifications please see series data sheets

	Input Voltage Minimum	Input Voltage Maximum
AC	85	264
DC	110	340v

FSK-S5 Series

Dimensions in Inches (mm)

Pin Assignment
Single Output
1. AC(N)
2. AC(L)
3. No Pin
4. GND
5. +V

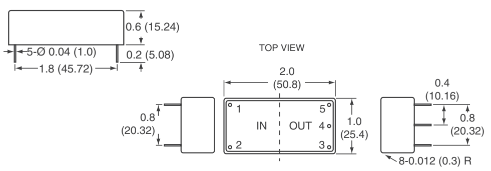

FSK-S15 Series

Pin Assignment	
Single Output	
1. FG	5. +Vout
2. AC(N)	6. No Pin
3. AC(L)	7. -Vout
4. No Pin	8. No Pin

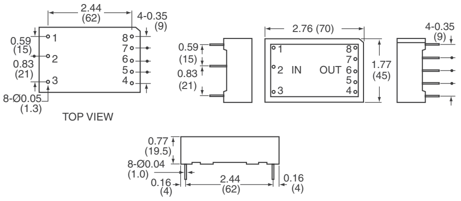

Output Power Max. (W)	Output Voltage (VDC)	Output Current Max. (A)	Digi-Key Part No.	Price Each 1	10	25	50	V-Infinity Part No.
			Single Output FSK-S5 Series					
4.125	3.3	1.25	102-1469-ND	19.96	19.47	18.97	17.97	FSK-S5-3R3U
5	5	1.0	102-1470-ND	19.96	19.47	18.97	17.97	FSK-S5-5U
5	12	0.42	102-1471-ND	19.96	19.47	18.97	17.97	FSK-S5-12U
5	15	0.33	102-1472-ND	19.96	19.47	18.97	17.97	FSK-S5-15U
5	24	0.21	102-1473-ND	19.96	19.47	18.97	17.97	FSK-S5-24U
			Single Output FSK-S15 Series					
9.9	3.3	3.0	102-1689-ND	43.06	41.99	40.91	38.76	FSK-S15-3R3U
15.0	5	3.0	102-1164-ND	43.06	41.99	40.91	38.76	FSK-S15-5U
15.6	12	1.3	102-1165-ND	43.06	41.99	40.91	38.76	FSK-S15-12U
15.0	15	1.0	102-1166-ND	43.06	41.99	40.91	38.76	FSK-S15-15U
15.6	24	0.65	102-1167-ND	43.06	41.99	40.91	38.76	FSK-S15-24U

5 Watt Medical Power Supply

PCB Mount

Features:

- Universal input 85 ~ 264VAC
- Designed for medical application
- Industry standard foot-print
- Efficiency up to 77%

Note: For safety and EMI certifications please see data sheets

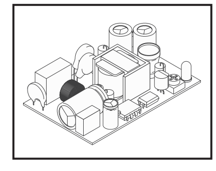

Voltage (V)	Current (A)	Load Reg. (%)	Digi-Key Part No.	Price Each 1	10	25	V-Infinity Part No.
3.3	1.25	1.0	102-1474-ND	24.74	24.13	23.51	VOFM-5-3.3
5	1.0	1.0	102-1475-ND	24.74	24.13	23.51	VOFM-5-5
9	.55	1.0	102-1476-ND	24.74	24.13	23.51	VOFM-5-9
12	.42	1.0	102-1477-ND	24.74	24.13	23.51	VOFM-5-12
15	.33	1.0	102-1478-ND	24.74	24.13	23.51	VOFM-5-15
18	.28	1.0	102-1479-ND	24.74	24.13	23.51	VOFM-5-18
24	.23	1.0	102-1480-ND	24.74	24.13	23.51	VOFM-5-24

NEW! Open Frame Medical Switching Power Supply

Features:

• Universal input 90 ~ 264VAC • Full medical and ITE approvals • Industry standard 2”x4” foot-print • Typical efficiency: 90% • Power density: 18 W/in^3 • Active PFC • Auxiliary fan output: 12V

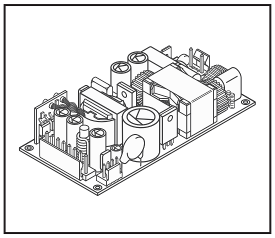

Output Voltage (VDC)	Maximum Current (A)† Convection	Maximum Current (A)† Forced Air	Ripple & Noise§ Maximum	Mating Connectors J1 Input	Mating Connectors J2 Output	Mating Connectors J3 Output	Mating Connectors Terminals	Digi-Key Part No.	Price Each 1	10	25	V-Infinity Part No.
5	16	20	50mV	WM2101	WM2106	WM2000	WM1114	102-1691-ND‡	124.10	116.80	109.50	VMS-160-5
12	8.3	13.3	120mV	WM2101	WM2106	WM2000	WM1114	102-1692-ND	124.10	116.80	109.50	VMS-160-12
24	4.16	6.66	240mV	WM2101	WM2106	WM2000	WM1114	102-1693-ND	124.10	116.80	109.50	VMS-160-24
48	2.08	3.33	480mV	WM2101	WM2106	WM2000	WM1114	102-1694-ND	124.10	116.80	109.50	VMS-160-48

† Total continuous output power will not exceed 160W forced air (400LFM), 100W without fan ‡ Total continuous output power will not exceed 100W forced air (400LFM), 80W without fan for 5V model § Measured at 20MHz, twisted pair with 0.47μF and 22μF parallel capacitors

(Continued)

120/200 Watt Open Frame Switching Power Supplies

Fig. 1

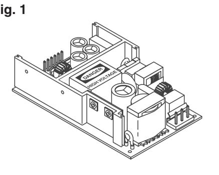

Fig. 2

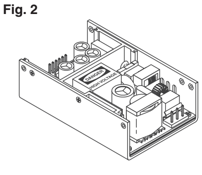

VSBU/VSUU Series

Features:

• Universal input voltage: 90 ~ 264VAC, 47 ~ 63Hz or 130 ~ 370VDC • Internal EMI filter • Input surge current, over voltage and over load protection • Power factor correction • Class I insulation • Two year warranty • Operating temperature: 0°C ~ 70°C

VPU Series

Features:

• Universal input voltage: 85 ~ 264VAC or 120 ~ 340VDC • Power factor correction • Operating temperature: -10°C ~ 65°C

Note: For safety and EMI certifications please see series data sheets

Output Power Maximum (W)	Output Voltage (VDC)	Output Current Typical (A)	Mating Connectors			Digi-Key Part No.	Price Each				V-Infinity Part No.
			Housing Input	Housing Output	Contacts		1	10	25	50	
Fig. 1 — Single Output (Size: 3" x 5" x 1.28")											
120	5.0	22	WM2103	WM17404	WM2300	102-1698-ND◆	88.71	83.49	78.27	73.06	VSBU-120-5
	12	10				102-1695-ND◆	88.71	83.49	78.27	73.06	VSBU-120-12
	15	8				102-1683-ND◆	88.71	83.49	78.27	73.06	VSBU-120-15
	24	5.0				102-1696-ND◆	88.71	83.49	78.27	73.06	VSBU-120-24
	36	3.3				102-1684-ND◆	88.71	83.49	78.27	73.06	VSBU-120-36
	48	2.5				102-1697-ND	87.01	81.89	76.77	71.66	VSBU-120-48
Fig. 1 — Dual Output (Size: 3" x 5" x 1.28") – RoHS Compliant											
120	5.0/12	15/6.0	WM2103	WM17404	WM2300	102-1699-ND	90.61	85.28	79.95	74.62	VSBU-120-D512
	5.0/24	15/3.5				102-1270-ND	90.61	85.28	79.95	74.62	VSBU-120-D524A
Fig. 1 — Triple Output (Size: 3" x 5" x 1.28")											
120	3.3/5.0/12	15/6.0/1.0	WM2103	WM17404	WM2300	102-1271-ND	94.16	88.63	83.09	77.55	VSBU-120-T3512B
	5.0/12/-12	15/6.0/0.8				102-1272-ND	94.16	88.63	83.09	77.55	VSBU-120-T512A
Fig. 2 — Single Output (Size: 3" x 5" x 1.58")											
120	5.0	22	WM2103	WM17404	WM2300	102-1276-ND◆	97.58	91.84	86.10	80.36	VSUU-120-5
	12	10				102-1273-ND	97.58	91.84	86.10	80.36	VSUU-120-12
	15	8				102-1685-ND◆	97.58	91.84	86.10	80.36	VSUU-120-15
	24	5.0				102-1274-ND◆	97.58	91.84	86.10	80.36	VSUU-120-24
	36	3.3				102-1686-ND◆	97.58	91.84	86.10	80.36	VSUU-120-36
	48	2.5				102-1275-ND	97.58	91.84	86.10	80.36	VSUU-120-48
Fig. 2 — Dual Output (Size: 3" x 5" x 1.58")											
120	5.0/12	15/6.0	WM2103	WM17404	WM2300	102-1277-ND◆	98.94	93.13	87.30	81.48	VSUU-120-D512
	5.0/24	15/3.5				102-1278-ND	98.94	93.12	87.30	81.48	VSUU-120-D524A
Fig. 2 — Triple Output (Size: 3" x 5" x 1.58") – RoHS Compliant											
120	3.3/5.0/12	15/6.0/1.0	WM2103	WM17404	WM2300	102-1279-ND	102.34	96.32	90.30	84.28	VSUU-120-T3512B
	5.0/12/-12	15/6.0/0.8				102-1280-ND	102.34	96.32	90.30	84.28	VSUU-120-T512A
Cover Top for VSUU-120 Series						102-1687-ND	2.04	1.92	1.80	1.68	VSUU-TCK
Fig. 2 — Single Output (Size: 6.8" x 3.8" x 1.5") – RoHS Compliant											
200	3.3	30	WM2114	WM2121	WM2300	102-1481-ND	107.68	101.35	95.01	88.68	VPU-S200-3.3
	5	30				102-1482-ND	107.68	101.35	95.01	88.68	VPU-S200-5
	12	16.7				102-1483-ND	107.68	101.35	95.01	88.68	VPU-S200-12
	15	13.3				102-1484-ND	107.68	101.35	95.01	88.68	VPU-S200-15
	24	8.3				102-1485-ND	107.68	101.35	95.01	88.68	VPU-S200-24
	36	5.5	WM2114	WM2121	WM2300	102-1486-ND	107.68	101.35	95.01	88.68	VPU-S200-36
	48	4.2				102-1487-ND	107.68	101.35	95.01	88.68	VPU-S200-48

◆ ***RoHS Compliant***

800/1500/2400 High Wattage Switching Power Supplies

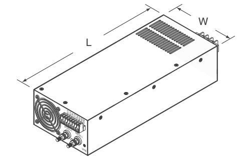

V-Infinity's rugged and durable power supplies provide remarkable power and value. The 800W, 1500W and 2400W series are rich with features like programmable output voltage, remote sense, remote inhibit and current sharing. With built-in fans and over voltage, over temperature, overload and short-circuit protection, they can stand up to your most demanding industrial control, automation and high power telecommunications applications.

Note: For safety and EMI certifications please see series data sheets

Voltage (V)	Output Current @ 120/240 Volt Input (A)	Size (Inch) L x W	Digi-Key Part No.	Price Each			V-Infinity Part No.
				1	5	10	
VSCP–800 Series							
12	33/66	11.42 x 4.72	102-1490-ND	460.35	424.08	397.59	VSCP-800-12
15	26/53	11.42 x 4.72	102-1491-ND	460.35	424.08	397.59	VSCP-800-15
24	16/33	11.42 x 4.72	102-1492-ND	460.35	424.08	397.59	VSCP-800-24
48	8/16	11.42 x 4.72	102-1493-ND	460.35	424.08	397.59	VSCP-800-48
VSCP–1K5 Series							
12	66/125	11.42 x 4.72	102-1494-ND	826.15	810.16	783.51	VSCP-1K5-12
15	53/100	11.42 x 4.72	102-1495-ND	826.15	810.16	783.51	VSCP-1K5-15
24	33/62	11.42 x 4.72	102-1496-ND	826.15	810.16	783.51	VSCP-1K5-24
48	16/31	11.42 x 4.72	102-1497-ND	826.15	810.16	783.51	VSCP-1K5-48
VSCP–2K4 Series							
12	100/200	13.07 x 8.35	102-1498-ND	1867.22	1678.40	1521.05	VSCP-2K4-12
15	80/160	13.07 x 8.35	102-1499-ND	1867.22	1678.40	1521.05	VSCP-2K4-15
24	50/100	13.07 x 8.35	102-1500-ND	1867.22	1678.40	1521.05	VSCP-2K4-24
48	25/50	13.07 x 8.35	102-1501-ND	1867.22	1678.40	1521.05	VSCP-2K4-48
60	20/40	13.07 x 8.35	102-1502-ND	1867.22	1678.40	1521.05	VSCP-2K4-60

POL (Point of Load) Series

Fig. 1

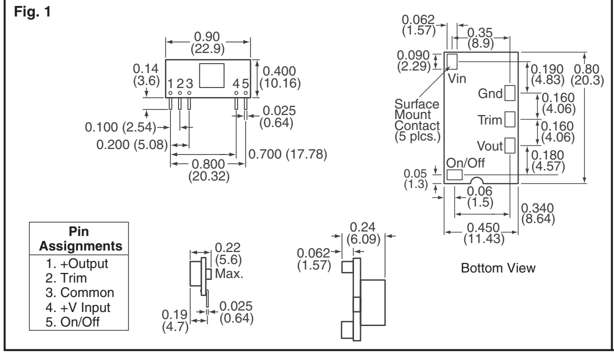

Pin Assignments
1. +Output
2. Trim
3. Common
4. +V Input
5. On/Off

Fig. 2

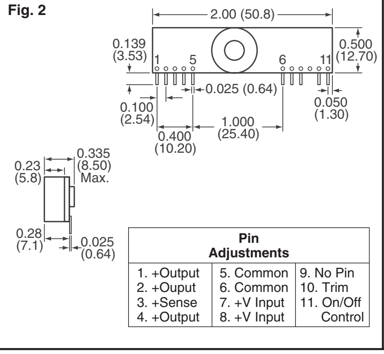

Pin Adjustments
1. +Output
2. +Ouput
3. +Sense
4. +Output
5. Common
6. Common
7. +V Input
8. +V Input
9. No Pin
10. Trim
11. On/Off Control

Fig. 3

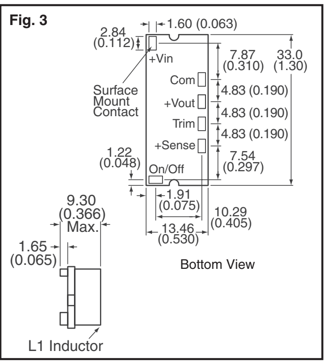

These "Point of Load" modules serve the needs specifically of the fixed and mobile telecommunications and computing market, employing economical distributed Power Architectures. Provide precisely regulated output voltage range from 0.75V to 5VDC over a wide range of input voltage and can operate over an ambient temperature range of -40°C ~ 85°C. Ultra-high efficiency operation is achieved through the use of synchronous rectification and drive control techniques. The modules are fully protected against short circuit and over-temperature conditions.

Features: • Cost efficient open frame design • No minimum load requirement (Stable at all loads) • Remote On/Off • Continuous short-circuit protection and over current protection • Over-temperature protection (OTP)

Note: For safety and EMI certifications please see data sheets

Fig.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current Maximum (A)	Digi-Key Part No.	Price Each 1	10	25	50	Tape and Reel† Size	Pricing	V-Infinity Part No.
1	3.0 ~ 5.5	0.75 ~ 3.63	5	102-1287-ND	14.60	13.51	13.14	12.78	—	—	VPOL5A-5-SIP
	3.0 ~ 5.5	0.75 ~ 3.63	5	102-1288-1-ND‡	14.60	13.51	13.14	12.78	500	5475.00	VPOL5A-5-SMT
	8.3 ~ 14	0.75 ~ 5.0	5	102-1289-ND◆	14.60	13.51	13.14	12.78	—	—	VPOL5A-12-SIP
	8.3 ~ 14	0.75 ~ 5.0	5	102-1290-1-ND‡◆	14.60	13.51	13.14	12.78	500	5475.00	VPOL5A-12-SMT
2	3.0 ~ 5.5	0.9 ~ 3.63	15	102-1291-ND	24.88	23.02	22.40	21.77	—	—	VPOL15A-5-SIP
	9.0 ~ 14	0.75 ~ 5.0	16	102-1293-ND	24.88	23.02	22.40	21.77	—	—	VPOL16A-12-SIP
3	3.0 ~ 5.5	0.9 ~ 3.63	15	102-1292-1-ND‡	24.88	23.02	22.40	21.77	250	4665.00	VPOL15A-5-SMT
	9.0 ~ 14	0.75 ~ 5.0	16	102-1294-1-ND‡	24.88	23.02	22.40	21.77	250	4665.00	VPOL16A-12-SMT

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut Tape ◆ ***RoHS Compliant***

1 Watt

RoHS COMPLIANT

VASD1 Series

Features: • 1KVDC Isolation • Dual Voltage Output • High Efficiency to 80% • Temperature Range: -40°C ~ 85°C
Note: For safety and EMI certifications please see data sheets

Fig. 1

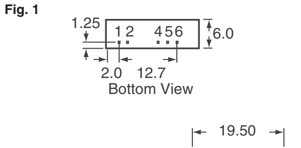

Pin	Function
1	Vin
2	GND
4	-Vo
5	COM
6	+Vo

Fig. 2

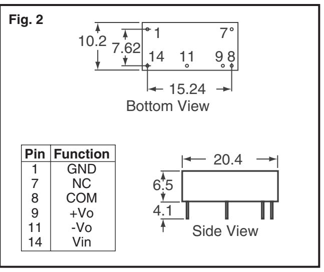

Pin	Function
1	GND
7	NC
8	COM
9	+Vo
11	-Vo
14	Vin

Input Voltage Nominal (VDC)	Range (VDC)	Output Voltage (VDC)	Output Current Max. (mA)	Min. (mA)	Digi-Key Part No.	Price Each 1	10	25	V-Infinity Part No.
Fig. 1 – SIP Series									
5	4.5 ~ 5.5	±5	±100	±10	102-1339-ND	4.96	4.84	4.72	VASD1-S5-D5-SIP
		±12	±42	±5	102-1340-ND	4.96	4.84	4.72	VASD1-S5-D12-SIP
		±15	±33	±4	102-1341-ND	4.96	4.84	4.72	VASD1-S5-D15-SIP
12	10.8 ~ 13.2	±5	±100	±10	102-1342-ND	4.96	4.84	4.72	VASD1-S12-D5-SIP
		±12	±42	±5	102-1343-ND	4.96	4.84	4.72	VASD1-S12-D12-SIP
		±15	±33	±4	102-1344-ND	4.96	4.84	4.72	VASD1-S12-D15-SIP
24	21.6 ~ 26.4	±5	±100	±10	102-1345-ND	4.96	4.84	4.72	VASD1-S24-D5-SIP
		±12	±42	±5	102-1346-ND	4.96	4.84	4.72	VASD1-S24-D12-SIP
		±15	±33	±4	102-1347-ND	4.96	4.84	4.72	VASD1-S24-D15-SIP
Fig. 2 – DIP Series									
5	4.5 ~ 5.5	±5	±100	±10	102-1348-ND	4.96	4.84	4.72	VASD1-S5-D5-DIP
		±12	±42	±5	102-1349-ND	4.96	4.84	4.72	VASD1-S5-D12-DIP
		±15	±33	±4	102-1350-ND	4.96	4.84	4.72	VASD1-S5-D15-DIP
12	10.8 ~ 13.2	±5	±100	±10	102-1351-ND	4.96	4.84	4.72	VASD1-S12-D5-DIP
		±12	±42	±5	102-1352-ND	4.96	4.84	4.72	VASD1-S12-D12-DIP
		±15	±33	±4	102-1353-ND	4.96	4.84	4.72	VASD1-S12-D15-DIP
24	21.6 ~ 26.4	±5	±100	±10	102-1354-ND	4.96	4.84	4.72	VASD1-S24-D5-DIP
		±12	±42	±5	102-1355-ND	4.96	4.84	4.72	VASD1-S24-D12-DIP
		±15	±33	±4	102-1356-ND	4.96	4.84	4.72	VASD1-S24-D15-DIP

VBSD1 Series

Features: • 1KVDC Isolation • Single Voltage Output • High Efficiency to 80% • Temperature Range: -40°C ~ 85°C
Note: For safety and EMI certifications please see data sheets

Fig. 1

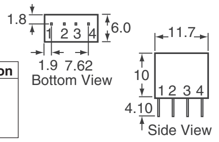

Pin	Function
1	GND
2	Vin
3	COM
4	+V

Fig. 2

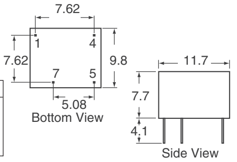

Pin	Function
1	GND
4	Vin
5	+V
7	COM

Input Voltage Nominal (VDC)	Range (VDC)	Output Voltage (VDC)	Output Current Max. (mA)	Min. (mA)	Digi-Key Part No.	Price Each 1	10	25	V-Infinity Part No.
Fig. 1 – SIP Series									
3.3	3.0 ~ 3.6	3.3	300	30	102-1357-ND	4.66	4.55	4.43	VBSD1-S3.3-S3.3-SIP
		5	200	20	102-1358-ND	4.66	4.55	4.43	VBSD1-S3.3-S5-SIP
5	4.5 ~ 5.5	3.3	300	30	102-1359-ND	4.66	4.55	4.43	VBSD1-S5-S3.3-SIP
		5	200	20	102-1360-ND	4.66	4.55	4.43	VBSD1-S5-S5-SIP
		12	83	9	102-1361-ND	4.66	4.55	4.43	VBSD1-S5-S12-SIP
		15	67	7	102-1362-ND	4.66	4.55	4.43	VBSD1-S5-S15-SIP
12	10.8 ~ 13.2	3.3	300	30	102-1363-ND	4.66	4.55	4.43	VBSD1-S12-S3.3-SIP
		5	200	20	102-1364-ND	4.66	4.55	4.43	VBSD1-S12-S5-SIP
		12	83	9	102-1365-ND	4.66	4.55	4.43	VBSD1-S12-S12-SIP
		15	67	7	102-1366-ND	4.66	4.55	4.43	VBSD1-S12-S15-SIP
24	21.6 ~ 26.4	3.3	300	30	102-1367-ND	4.66	4.55	4.43	VBSD1-S24-S3.3-SIP
		5	200	20	102-1368-ND	4.66	4.55	4.43	VBSD1-S24-S5-SIP
		12	83	9	102-1369-ND	4.66	4.55	4.43	VBSD1-S24-S12-SIP
		15	67	7	102-1370-ND	4.66	4.55	4.43	VBSD1-S24-S15-SIP
Fig. 2 – DIP Series									
3.3	3.0 ~ 3.6	3.3	300	30	102-1371-ND	4.94	4.82	4.70	VBSD1-S3.3-S3.3-DIP
		5	200	20	102-1372-ND	4.94	4.82	4.70	VBSD1-S3.3-S5-DIP
5	4.5 ~ 5.5	3.3	300	30	102-1373-ND	4.94	4.82	4.70	VBSD1-S5-S3.3-DIP
		5	200	20	102-1374-ND	4.94	4.82	4.70	VBSD1-S5-S5-DIP
		12	83	9	102-1375-ND	4.94	4.82	4.70	VBSD1-S5-S12-DIP
		15	67	7	102-1376-ND	4.94	4.82	4.70	VBSD1-S5-S15-DIP
12	10.8 ~ 13.2	3.3	300	30	102-1377-ND	4.94	4.82	4.70	VBSD1-S12-S3.3-DIP
		5	200	20	102-1378-ND	4.94	4.82	4.70	VBSD1-S12-S5-DIP
		12	83	9	102-1379-ND	4.94	4.82	4.70	VBSD1-S12-S12-DIP
		15	67	7	102-1380-ND	4.94	4.82	4.70	VBSD1-S12-S15-DIP
24	21.6 ~ 26.4	3.3	300	30	102-1381-ND	4.94	4.82	4.70	VBSD1-S24-S3.3-DIP
		5	200	20	102-1382-ND	4.94	4.82	4.70	VBSD1-S24-S5-DIP
		12	83	9	102-1383-ND	4.94	4.82	4.70	VBSD1-S24-S12-DIP
		15	67	7	102-1384-ND	4.94	4.82	4.70	VBSD1-S24-S15-DIP

(Continued)

VESD1-SIP Series

Features: • 3KVDC Isolation • Dual Voltage Output • High Efficiency to 80% • Temperature Range: -40°C ~ 85°C
Note: For safety and EMI certifications please see data sheets

Pin	Function
1	Vin
2	GND
4	-Vo
5	COM
6	+Vo

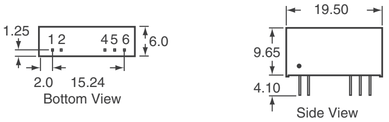

Input Voltage		Output	Output Current						
Nominal (VDC)	Range (VDC)	Voltage (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	Price Each 1	10	25	V-Infinity Part No.
5	4.5 ~ 5.5	±5	±100	±10	102-1408-ND	6.44	6.28	6.12	VESD1-S5-D5-SIP
		±12	±42	±5	102-1409-ND	6.44	6.28	6.12	VESD1-S5-D12-SIP
		±15	±33	±4	102-1410-ND	6.44	6.28	6.12	VESD1-S5-D15-SIP
12	10.8 ~ 13.2	±5	±100	±10	102-1411-ND	6.44	6.28	6.12	VESD1-S12-D5-SIP
		±12	±42	±5	102-1412-ND	6.44	6.28	6.12	VESD1-S12-D12-SIP
		±15	±33	±4	102-1413-ND	6.44	6.28	6.12	VESD1-S12-D15-SIP
24	21.6 ~ 26.4	±5	±100	±10	102-1414-ND	6.44	6.28	6.12	VESD1-S24-D5-SIP
		±12	±42	±5	102-1415-ND	6.44	6.28	6.12	VESD1-S24-D12-SIP
		±15	±33	±4	102-1416-ND	6.44	6.28	6.12	VESD1-S24-D15-SIP

VBT1-SMT Series

Features: • 1KVDC Isolation • Single Voltage Output • High Efficiency to 80% • Temperature Range: -40°C ~ 85°C
Note: For safety and EMI certifications please see data sheets

Pin Function	
1. GND	5. +Vo
2. Vin	6. NC
3. NC	7. NC
4. COM	8. NC

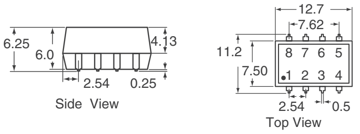

Input Voltage		Output	Output Current			Cut Tape			T & R‡	
Nom. (VDC)	Range (VDC)	Volt. (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	Price Each 1	10	25	Pricing 500	V-Infinity Part No.
3.3	3.0 ~ 3.6	3.3	300	30	102-1394-1-ND	4.82	4.46	4.34	1807.50	VBT1-S3.3-S3.3-SMT
		5	200	20	102-1395-1-ND	4.82	4.46	4.34	1807.50	VBT1-S3.3-S5-SMT
5	4.5 ~ 5.5	3.3	300	30	102-1396-1-ND	4.82	4.46	4.34	1807.50	VBT1-S5-S3.3-SMT
		5	200	20	102-1397-1-ND	4.82	4.46	4.34	1807.50	VBT1-S5-S5-SMT
		12	83	9	102-1398-1-ND	4.82	4.46	4.34	1807.50	VBT1-S5-S12-SMT
		15	67	7	102-1399-1-ND	4.82	4.46	4.34	1807.50	VBT1-S5-S15-SMT
12	10.8 ~ 13.2	3.3	300	30	102-1400-1-ND	4.82	4.46	4.34	1807.50	VBT1-S12-S3.3-SMT
		5	200	20	102-1401-1-ND	4.82	4.46	4.34	1807.50	VBT1-S12-S5-SMT
		12	83	9	102-1402-1-ND	4.82	4.46	4.34	1807.50	VBT1-S12-S12-SMT
		15	67	7	102-1403-1-ND	4.82	4.46	4.34	1807.50	VBT1-S12-S15-SMT
24	21.6 ~ 26.4	3.3	300	30	102-1404-1-ND	4.82	4.46	4.34	1807.50	VBT1-S24-S3.3-SMT
		5	200	20	102-1405-1-ND	4.82	4.46	4.34	1807.50	VBT1-S24-S5-SMT
		12	83	9	102-1406-1-ND	4.82	4.46	4.34	1807.50	VBT1-S24-S12-SMT
		15	67	7	102-1407-1-ND	4.82	4.46	4.34	1807.50	VBT1-S24-S15-SMT

‡ For Tape and Reel part number, change 1-ND to 2-ND

VFSD1-SIP Series

Features: • 3KVDC Isolation • Single Voltage Output • High Efficiency to 80% • Temperature Range: -40°C ~ 85°C
Note: For safety and EMI certifications please see data sheets

Pin	Function
1	Vin
2	GND
5	COM
7	+Vo

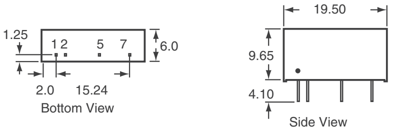

Input Voltage		Output	Output Current						
Nominal (VDC)	Range (VDC)	Voltage (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	Price Each 1	10	25	V-Infinity Part No.
3.3	3.0 ~ 3.6	3.3	300	30	102-1417-ND	6.26	6.11	5.95	VFSD1-S3.3-S3.3-SIP
		5	200	20	102-1418-ND	6.26	6.11	5.95	VFSD1-S3.3-S5-SIP
5	4.5 ~ 5.5	3.3	300	30	102-1419-ND	6.26	6.11	5.95	VFSD1-S5-S3.3-SIP
		5	200	20	102-1420-ND	6.26	6.11	5.95	VFSD1-S5-S5-SIP
		12	83	9	102-1421-ND	6.26	6.11	5.95	VFSD1-S5-S12-SIP
		15	67	7	102-1422-ND	6.26	6.11	5.95	VFSD1-S5-S15-SIP
12	10.8 ~ 13.2	3.3	300	30	102-1423-ND	6.26	6.11	5.95	VFSD1-S12-S3.3-SIP
		5	200	20	102-1424-ND	6.26	6.11	5.95	VFSD1-S12-S5-SIP
		12	83	9	102-1425-ND	6.26	6.11	5.95	VSFD1-S12-S12-SIP
		15	67	7	102-1426-ND	6.26	6.11	5.95	VFSD1-S12-S15-SIP
24	21.6 ~ 26.4	3.3	300	30	102-1427-ND	6.26	6.11	5.95	VFSD1-S24-S3.3-SIP
		5	200	20	102-1428-ND	6.26	6.11	5.95	VFSD1-S24-S5-SIP
		12	83	9	102-1429-ND	6.26	6.11	5.95	VFSD1-S24-S12-SIP
		15	67	7	102-1430-ND	6.26	6.11	5.95	VFSD1-S24-S15-SIP

VHS1-SIP Series

Features: • 6KVDC Isolation • Single Voltage Output • High Efficiency to 76% • Temperature Range: -40°C ~ 85°C
Note: For safety and EMI certifications please see data sheets

Pin	Function
1	+Vin
2	-Vin
5	-Vout
7	+Vout

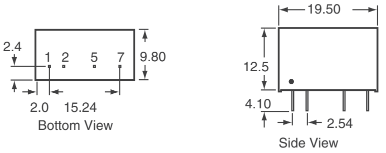

Input Voltage		Output	Output Current						
Nominal (VDC)	Range (VDC)	Voltage (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	Price Each 1	10	25	V-Infinity Part No.
5	4.5 ~ 5.5	5	200	20	102-1449-ND	8.80	8.58	8.36	VHS1-S5-S5-SIP
		12	84	9	102-1450-ND	8.80	8.58	8.36	VHS1-S5-S12-SIP
		15	67	7	102-1451-ND	8.80	8.58	8.36	VHS1-S5-S15-SIP
12	10.8 ~ 13.2	5	200	20	102-1452-ND	8.80	8.58	8.36	VHS1-S12-S5-SIP
		12	84	9	102-1453-ND	8.80	8.58	8.36	VHS1-S12-S12-SIP
		15	67	7	102-1454-ND	8.80	8.58	8.36	VHS1-S12-S15-SIP

VAT1-SMT Series

Features: • 1KVDC Isolation • Dual Voltage Output • High Efficiency to 79% • Temperature Range: -40°C ~ 85°C
Note: For safety and EMI certifications please see data sheets

Pin Function	
1. GND	6. NC
2. Vin	7. +Vo
3. NC	8. NC
4. COM	9. NC
5. -Vo	10. NC

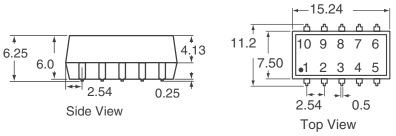

Input Voltage		Output	Output Current						T & R‡	
Nom. (VDC)	Range (VDC)	Volt. (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	Price Each 1	10	25	Pricing 500	V-Infinity Part No.
5	4.5 ~ 5.5	±5	±100	±10	102-1385-1-ND	5.56	5.15	5.01	2085.00	VAT1-S5-D5-SMT
		±12	±42	±5	102-1386-1-ND	5.56	5.15	5.01	2085.00	VAT1-S5-D12-SMT
		±15	±33	±4	102-1387-1-ND	5.56	5.15	5.01	2085.00	VAT1-S5-D15-SMT
12	10.8 ~ 13.2	±5	±100	±10	102-1388-1-ND	5.56	5.15	5.01	2085.00	VAT1-S12-D5-SMT
		±12	±42	±5	102-1389-1-ND	5.56	5.15	5.01	2085.00	VAT1-S12-D12-SMT
		±15	±33	±4	102-1390-1-ND	5.56	5.15	5.01	2085.00	VAT1-S12-D15-SMT
24	21.6 ~ 26.4	±5	±100	±10	102-1391-1-ND	5.56	5.15	5.01	2085.00	VAT1-S24-D5-SMT
		±12	±42	±5	102-1392-1-ND	5.56	5.15	5.01	2085.00	VAT1-S24-D12-SMT
		±15	±33	±4	102-1393-1-ND	5.56	5.15	5.01	2085.00	VAT1-S24-D15-SMT

‡ For Tape and Reel part number, change 1-ND to 2-ND

VIBLSD1 Series

Features: • 1KVDC Isolation • Single Voltage Output • High Efficiency to 79% • Temperature Range: -40°C ~ 85°C • Regulated Output
Note: For safety and EMI certifications please see data sheets

Fig. 1

Pin	Function
1	+Vin
2	-Vin
4	-Vout
6	+Vout

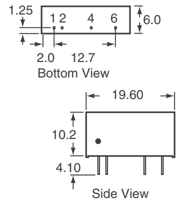

Fig. 2

Pin	Function
1	-Vin
7	NC
9	+Vout
11	-Vout
14	+Vin

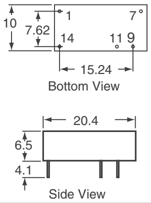

Input Voltage		Output	Output Current						
Nominal (VDC)	Range (VDC)	Voltage (VDC)	Max. (mA)	Min. (mA)	Digi-Key Part No.	Price Each 1	10	25	V-Infinity Part No.
Fig. 1 – SIP Series									
5	4.75 ~ 5.25	5	150	15	102-1431-ND	6.00	5.85	5.70	VIBLSD1-S5-S5-SIP
		12	83	9	102-1432-ND	6.00	5.85	5.70	VIBLSD1-S5-S12-SIP
		15	67	7	102-1433-ND	6.00	5.85	5.70	VIBLSD1-S5-S15-SIP
12	11.4 ~ 12.6	5	150	15	102-1434-ND	6.00	5.85	5.70	VIBLSD1-S12-S5-SIP
		12	83	9	102-1435-ND	6.00	5.85	5.70	VIBLSD1-S12-S12-SIP
		15	67	7	102-1436-ND	6.00	5.85	5.70	VIBLSD1-S12-S15-SIP
24	22.8 ~ 25.2	5	150	15	102-1437-ND	6.00	5.85	5.70	VIBLSD1-S24-S5-SIP
		12	83	9	102-1438-ND	6.00	5.85	5.70	VIBLSD1-S24-S12-SIP
		15	67	7	102-1439-ND	6.00	5.85	5.70	VIBLSD1-S24-S15-SIP
Fig. 2 – DIP Series									
5	4.75 ~ 5.25	5	150	15	102-1440-ND	6.00	5.85	5.70	VIBLSD1-S5-S5-DIP
		12	83	9	102-1441-ND	6.00	5.85	5.70	VIBLSD1-S5-S12-DIP
		15	67	7	102-1442-ND	6.00	5.85	5.70	VIBLSD1-S5-S15-DIP
12	11.4 ~ 12.6	5	150	15	102-1443-ND	6.00	5.85	5.70	VIBLSD1-S12-S5-DIP
		12	83	9	102-1444-ND	6.00	5.85	5.70	VIBLSD1-S12-S12-DIP
		15	67	7	102-1445-ND	6.00	5.85	5.70	VIBLSD1-S12-S15-DIP
24	22.8 ~ 25.2	5	150	15	102-1446-ND	6.00	5.85	5.70	VIBLSD1-S24-S5-DIP
		12	83	9	102-1447-ND	6.00	5.85	5.70	VIBLSD1-S24-S12-DIP
		15	67	7	102-1448-ND	6.00	5.85	5.70	VIBLSD1-S24-S15-DIP

(Continued)

2W VWRAS2 and VWRBS2 Series

Designed to convert fixed voltages into an isolated regulated voltage, the VWRAS2-SIP and VWRBS2-SIP series are well suited for providing boardmount local supplies in a wide range of applications, including mixed analog/digital circuits, test and measurement equipment, process/machine controls and datacom/telecom fields.

VWRAS2-SIP Series:
Features:
• Wide (2:1) input range • High efficiency to 83% • Regulated • Dual voltage output • I/O Isolation 1500VDC • No heatsink required • Short circuit protection • Remote on/off • MTBF >1,000,000 hours • Temperature range: -40°C ~ 85°C

VWRBS2-SIP Series:
Features:
• Wide (2:1) input range • Regulated • High efficiency to 82% • Single voltage output • SIP package style • Industry standard pinout • UL 94V-0 package • No heatsink required • MTBF >1,000,000 hours • Temperature range: -40°C ~ 85°C

Note: For safety and EMI certifications please see series data sheets

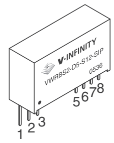

Pin Assignments		
Pin	**Single Output**	**Dual Output**
1	GND	GND
2	Vin	Vin
3	CTRL	CTRL
5	NC	CN
6	+Vo	+Vo
7	OV	OV
8	CS	-Vo

Input Voltage		Output Voltage (VDC)	Output Current (mA)	Digi-Key Part No.	Price Each			V-Infinity Part No.
Nominal (VDC)	Range (VDC)				1	10	25	
VWRAS2-SIP Series								
5	4.5 ~ 9	±5	±200	102-1521-ND	13.66	13.32	12.98	VWRAS2-D5-D5-SIP
		±9	±110	102-1522-ND	13.66	13.32	12.98	VWRAS2-D5-D9-SIP
		±12	±83	102-1523-ND	13.66	13.32	12.98	VWRAS2-D5-D12-SIP
		±15	±66	102-1524-ND	13.66	13.32	12.98	VWRAS2-D5-D15-SIP
12	9 ~ 18	±5	±200	102-1525-ND	13.66	13.32	12.98	VWRAS2-D12-D5-SIP
		±9	±110	102-1526-ND	13.66	13.32	12.98	VWRAS2-D12-D9-SIP
		±12	±83	102-1527-ND	13.66	13.32	12.98	VWRAS2-D12-D12-SIP
		±15	±66	102-1528-ND	13.66	13.32	12.98	VWRAS2-D12-D15-SIP
24	18 ~ 36	±5	±200	102-1529-ND	13.66	13.32	12.98	VWRAS2-D24-D5-SIP
		±9	±110	102-1530-ND	13.66	13.32	12.98	VWRAS2-D24-D9-SIP
		±12	±83	102-1531-ND	13.66	13.32	12.98	VWRAS2-D24-D12-SIP
		±15	±66	102-1532-ND	13.66	13.32	12.98	VWRAS2-D24-D15-SIP
48	36 ~ 72	±5	±200	102-1533-ND	13.66	13.32	12.98	VWRAS2-D48-D5-SIP
		±9	±110	102-1534-ND	13.66	13.32	12.98	VWRAS2-D48-D9-SIP
		±12	±83	102-1535-ND	13.66	13.32	12.98	VWRAS2-D48-D12-SIP
		±15	±66	102-1536-ND	13.66	13.32	12.98	VWRAS2-D48-D15-SIP
VWRBS2-SIP Series								
5	4.5 ~ 9	3.3	500	102-1700-ND ***NEW!***	12.56	12.25	11.93	VWRBS2-D5-S3-SIP
		5	400	102-1505-ND	12.56	12.25	11.94	VWRBS2-D5-S5-SIP
		9	222	102-1506-ND	12.56	12.25	11.94	VWRBS2-D5-S9-SIP
		12	167	102-1507-ND	12.56	12.25	11.94	VWRBS2-D5-S12-SIP
		15	133	102-1508-ND	12.56	12.25	11.94	VWRBS2-D5-S15-SIP
		24	80	102-1701-ND ***NEW!***	12.56	12.25	11.93	VWRBS2-D5-S24-SIP
12	9 ~ 18	3.3	500	102-1702-ND ***NEW!***	12.56	12.25	11.93	VWRBS2-D12-S3-SIP
		5	400	102-1509-ND	12.56	12.25	11.94	VWRBS2-D12-S5-SIP
		9	222	102-1510-ND	12.56	12.25	11.94	VWRBS2-D12-S9-SIP
		12	167	102-1511-ND	12.56	12.25	11.94	VWRBS2-D12-S12-SIP
		15	133	102-1512-ND	12.56	12.25	11.94	VWRBS2-D12-S15-SIP
		24	80	102-1703-ND ***NEW!***	12.56	11.93	11.93	VWRBS2-D12-S24-SIP
24	18 ~ 36	3.3	500	102-1704-ND ***NEW!***	12.56	12.25	11.93	VWRBS2-D24-S3-SIP
		5	400	102-1513-ND	12.56	12.25	11.94	VWRBS2-D24-S5-SIP
		9	222	102-1514-ND	12.56	12.25	11.94	VWRBS2-D24-S9-SIP
		12	167	102-1515-ND	12.56	12.25	11.94	VWRBS2-D24-S12-SIP
		15	133	102-1516-ND	12.56	12.25	11.94	VWRBS2-D24-S15-SIP
		24	80	102-1705-ND ***NEW!***	12.56	12.25	11.93	VWRBS2-D24-S24-SIP
48	36 ~ 72	3.3	500	102-1706-ND ***NEW!***	12.56	12.25	11.93	VWRBS2-D48-S3-SIP
		5	400	102-1517-ND	12.56	12.25	11.94	VWRBS2-D48-S5-SIP
		9	222	102-1518-ND	12.56	12.25	11.94	VWRBS2-D48-S9-SIP
		12	167	102-1519-ND	12.56	12.25	11.94	VWRBS2-D48-S12-SIP
		15	133	102-1520-ND	12.56	12.25	11.94	VWRBS2-D48-S15-SIP
		24	80	102-1707-ND ***NEW!***	12.56	12.25	11.94	VWRBS2-D48-S24-SIP

NEW! Compact DC Switching Regulators

Pin Compatible with L78xx Linear Regulators

The V78 series offers efficiencies up to 96%, eliminating the need for a heat sink and saving users precious board space. Ideal for compact portable equipment, consumer electronics applications, and space critical commercial and industrial equipment.

Features:

- Non-isolated
- Highly efficient
- Wide input range
- Able to provide positive or negative output
- Short circuit protection
- Thermal shutdown
- Low ripple and noise

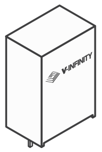

Input Voltage Range (Vdc)	Output Voltage (Vdc)	Ouput Current (mA)	Efficiency		Digi-Key Part No.	Price Each			V-Infinity Part No.
			Vin (min.)	Vin (max.)		1	10	25	
V78xx-500 Series									
4.75 ~ 28	3.3	500	90%	80%	102-1708-ND	9.16	8.94	8.71	V7803-500
6.5 ~ 32	5	500	93%	84%	102-1709-ND	9.16	8.94	8.71	V7805-500
8 ~ 32	6.5	500	94%	87%	102-1710-ND	9.16	8.94	8.71	V7806-500
11 ~ 32	9	500	95%	91%	102-1711-ND	9.16	8.94	8.71	V7809-500
15 ~ 32	12	500	95%	92%	102-1712-ND	9.16	8.94	8.71	V7812-500
18 ~ 32	15	500	96%	93%	102-1713-ND	9.16	8.94	8.71	V7815-500
V78xx-1000 Series, Non-isolated									
4.75 ~ 28	3.3	1,000	90%	83%	102-1714-ND	12.64	12.33	12.01	V7803-1000
6.5 ~ 32	5	1,000	93%	88%	102-1715-ND	12.64	12.33	12.01	V7805-1000
8 ~ 32	6.5	1,000	94%	90%	102-1716-ND	12.64	12.33	12.01	V7806-1000
11 ~ 32	9	1,000	95%	92%	102-1717-ND	12.64	12.33	12.01	V7809-1000
15 ~ 32	12	1,000	95%	94%	102-1718-ND	12.64	12.33	12.01	V7812-1000

3 Watt VAWQ3 and 6 Watt VAWQ6 Series

Features: • 4:1 input (12V input and a 24V input converter in one) • 3000VDC isolation (can be used in some medical applications) • Industry standard 24-pin DIP packaging

Note: For safety and EMI certifications please see series data sheets

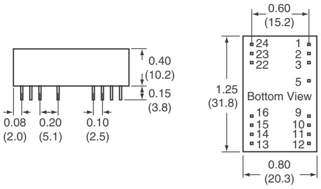

Pin Connection		
Pin	**Single Output**	**Dual Output**
1	NP	NP
2	-V Input	-V Input
3	-V Input	-V Input
5	NP	NP
9	NC	Common
10	NC	NC
11	NC	-V Output
12	NP	NP
13	NP	NP
14	+V Output	+V Output
15	NC	NC
16	-V Output	Common
22	+V Input	+V Input
23	+V Input	+V Input
24	NP	NP

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Minimum Load (mA)	Digi-Key Part No.	Price Each			V-Infinity Part No.
					1	10	25	
VAWQ3 Series — Single Output								
9-36	3.3	600	15	102-1311-ND	21.00	20.48	19.95	VAWQ3-A24-S3R3H
	5	600	15	102-1312-ND	21.00	20.48	19.95	VAWQ3-Q24-S5H
	12	250	15	102-1313-ND	21.00	20.48	19.95	VAWQ3-Q24-S12H
VAWQ3 Series — Dual Output								
9-36	±12	±125	25	102-1314-ND	24.08	23.48	22.88	VAWQ3-Q24-D12H
	±15	±100	25	102-1315-ND	24.08	23.48	22.88	VAWQ3-Q24-D15H
VAWQ6 Series — Single Output								
9-36	3.3	1,000	15	102-1316-ND	27.64	26.95	26.26	VAWQ6-Q24-S3R3H
	5	1,000	15	102-1317-ND	27.64	26.95	26.26	VAWQ6-Q24-S5H
	12	470	15	102-1318-ND	27.64	26.95	26.26	VAWQ6-Q24-S12H
VAWQ6 Series — Dual Output								
9-36	±12	±230	25	102-1319-ND	30.68	29.91	29.15	VAWQ6-Q24-D12H
	±15	±190	25	102-1320-ND	30.68	29.91	29.15	VAWQ6-Q24-D15H

10 Watt PTK10 Series

Features:

• Industry standard pin out • Wide 4:1 input range • Fully isolated • Over-current protection • Over-voltage protection • Six-sided EMI shielding • Constant switching frequency • High efficiency • Compact size (2.0" x 1.0" x 0.4") • 3 year warranty

Note: For safety and EMI certifications please see data sheets

Pin Assignments	
Single Output	**Dual Output**
1. +Vin	1. +Vin
2. -Vin	2. -Vin
3. +Vout	3. +Vout
4. No pin	4. Com
5. -Vout	5. -Vout

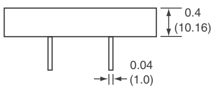

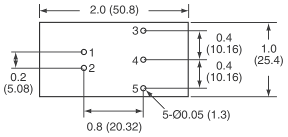

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (Max.)	Digi-Key Part No.	Price Each				V-Infinity Part No.
				1	10	25	50	
Single Output								
10-36	3.3	2.4A	102-1070-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S3
	5	2.0A	102-1071-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S5
	12	0.9A	102-1072-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S12
	15	0.7A	102-1230-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S15
20-72	3.3	2.4A	102-1073-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S3
	5	2.0A	102-1074-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S5
	12	0.9A	102-1075-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S12
	15	0.7A	102-1234-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S15
Dual Output								
10-36	±5	1.0A	102-1231-ND	39.24	38.26	37.28	35.32	PTK10-Q24-D5
	±12	0.45A	102-1232-ND	39.24	38.26	37.28	35.32	PTK10-Q24-D12
	±15	0.35A	102-1233-ND	39.24	38.26	37.28	35.32	PTK10-Q24-D15
20-72	±5	1.0A	102-1235-ND	39.24	38.26	37.28	35.32	PTK10-Q48-D5
	±12	0.45A	102-1236-ND	39.24	38.26	37.28	35.32	PTK10-Q48-D12
	±15	0.35A	102-1237-ND	39.24	38.26	37.28	35.32	PTK10-Q48-D15

(Continued)

15 Watt VBED15 Series

Features:

- 15W isolated output
- Efficiency to 83%
- 2:1 input range
- Compact size (2.0" x 1.0" x 0.4")
- Continuous short circuit protection
- Remote on/off control
- Output trim on single output models

Note: For safety and EMI certifications please see data sheets

Pin Assignments	
1. +V Input	4. Trim/Common
2. -V Input	5. -V Output
3. +V Output	6. Remote*

*Common on dual output models only.

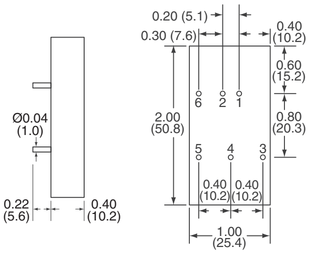

Input Voltage (VDC)	Output Voltage (VDC)	Output Current Max. (A)	Digi-Key Part No.	Price Each 1	10	25	50	V-Infinity Part No.
Single Output								
9-18	3.3	3	102-1246-ND	45.10	43.98	42.85	40.59	VBED15-D12-S3R3-1A
	5	3	102-1247-ND◆	45.10	43.98	42.85	40.59	VBED15-D12-S5-1A
	12	1.25	102-1248-ND◆	45.10	43.98	42.85	40.59	VBED15-D12-S12-1A
18-36	3.3	3	102-1250-ND◆	45.10	43.98	42.85	40.59	VBED15-D24-S3R3-1A
	5	3	102-1251-ND◆	45.10	43.98	42.85	40.59	VBED15-D24-S5-1A
	12	1.25	102-1252-ND◆	45.10	43.98	42.85	40.59	VBED15-D24-S12-1A
Dual Output — RoHS Compliant								
9-18	±12	±.625	102-1249-ND	50.96	49.69	48.42	45.87	VBED15-D12-D12-1
18-36	±12	±.625	102-1253-ND	50.96	49.69	48.42	45.87	VBED15-D24-D12-1

◆ ***RoHS Compliant***

Step Up Voltage PK15 and PK25 Series

RoHS COMPLIANT

Ideal for applications using low voltage distributed power architecture.

Features:

- Output voltage trim
- Remote on/off
- Wide 2:1 input range
- Fully isolated
- Low ripple and noise
- Over-current protection
- HI-POT tested
- High efficiency
- 3 year warranty

Note: For safety and EMI certifications please see series data sheets

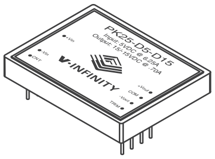

Input Voltage (VDC)	Output Voltage (VDC)	Output Current Max. (A)	Digi-Key Part No.	Price Each 1	10	25	50	V-Infinity Part No.
Single Output								
4.5-7.2	12	1.0	102-1609-ND	47.04	45.87	44.69	42.34	PK15-D5-S12
	15	0.8	102-1601-ND	47.04	45.87	44.69	42.34	PK15-D5-S15
4.5-9	12	1.7	102-1604-ND	71.00	69.23	67.45	63.90	PK25-D5-S12
	15	1.4	102-1605-ND	71.00	69.23	67.45	63.90	PK25-D5-S15
Dual Output								
4.5-7.2	±12	0.5	102-1602-ND	49.58	48.35	47.11	44.63	PK15-D5-D12
	±15	0.4	102-1603-ND	49.58	48.35	47.11	44.63	PK15-D5-D15
4.5-9	±12	0.85	102-1606-ND	74.78	72.92	71.05	67.31	PK25-D5-D12
	±15	0.7	102-1607-ND	74.78	72.92	71.05	67.31	PK25-D5-D12

15 Watt PTK15 and 25 Watt PTK25 Series

Features: • Industry standard pin out • Fully isolated • Output voltage trimable • Output on/off control • Over-current protection • Over-voltage protection • Six-sided EMI shielding • Constant switching frequency • High efficiency • Compact size 2.0" x 2.0" x 0.4" • 3 year warranty

Input: • Parameter: Switching frequency • PTK15; Nominal: 250KHz • PTK25; Nominal: 300KHz

Output: • Parameter: Output trim range • Conditions/Description: With external trim resistors • Min.: -10% • Max.: +10%

Note: For safety and EMI certifications please see series data sheets

Pin Assignments		
Single Output	**Dual Output**	**Triple Output**
1. +Vin	1. +Vin	1. +Vin
2. -Vin	2. -Vin	2. -Vin
3. No pin	3. No pin	3. No pin
4. CNT	4. CNT	4. CNT
5. NC	5. +Vout	5. +Vaux
6. +Vout	6. Com	6. +Vout
7. -Vout	7. -Vout	7. Com
8. Trim	8. Trim	8. -Vaux

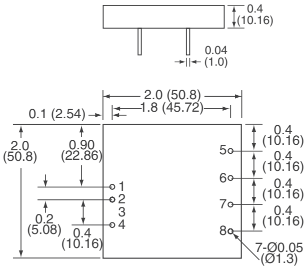

15 Watt PTK15 and 25 Watt PTK25 Series with Screw Terminals

Features:

- U-Frame with screw-terminals
- Wide 4:1 (PTK15); Wide 2:1 (PTK25) input range
- Fully isolated
- Output voltage trimable
- Output on/off control
- Over-current protection
- Six-sided EMI shielding
- 3 year warranty

Note: For safety and EMI certifications please see series data sheets

Pin Assignments	
Single Output	**Dual Output**
1. N.C.	1. +Vout
2. +Vout	2. Com
3. -Vout	3. -Vout
4. Trim	4. Trim
5. Case	5. Case
6. On/Off	6. On/Off
7. -Vin	7. -Vin
8. +Vin	8. +Vin

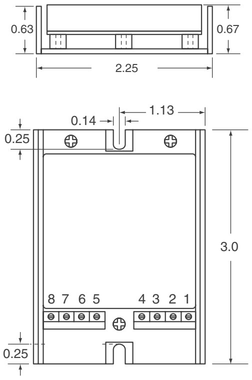

Output	Input Voltage (VDC)	Output Voltage (VDC)	Output Current Maximum (A)	Digi-Key Part No.	Price Each 1	10	25	50	V-Infinity Part No.
PTK15 Series — Wide 4:1 Input Range									
Single	10-36	3.3	4.0	102-1076-ND◆	47.04	45.87	44.69	42.34	PTK15-Q24-S3
		5	3.0	102-1077-ND◆	47.04	45.87	44.69	42.34	PTK15-Q24-S5
		12	1.25	102-1078-ND◆	47.04	45.87	44.69	42.34	PTK15-Q24-S12
		15	1.0	102-1209-ND◆	47.04	45.87	44.69	42.34	PTK15-Q24-S15
	20-72	5	3.0	102-1086-ND◆	47.04	45.87	44.69	42.34	PTK15-Q48-S5
		12	1.25	102-1087-ND◆	47.04	45.87	44.69	42.34	PTK15-Q48-S12
		15	1.0	102-1203-ND◆	47.04	45.87	44.69	42.34	PTK15-Q48-S15
Chassis Kit for PTK15 Series – Single Output – 10-36 Input Voltage				102-1296-ND◆	11.50	11.22	10.93	10.35	UF224S36
Dual	10-36	±5	1.5	102-1079-ND◆	49.58	48.35	47.11	44.63	PTK15-Q24-D5
		±12	0.625	102-1080-ND◆	49.58	48.35	47.11	44.63	PTK15-Q24-D12
		±15	0.5	102-1210-ND◆	49.58	48.35	47.11	44.63	PTK15-Q24-D15
	20-72	±12	0.625	102-1089-ND◆	49.58	48.35	47.11	44.63	PTK15-Q48-D12
		±15	0.5	102-1204-ND	49.58	48.35	47.11	44.63	PTK15-Q48-D15
Triple	10-36	5/±12	1.5/0.31	102-1082-ND◆	49.58	48.35	47.11	44.63	PTK15-Q24-T512
		5/±15	1.5/0.25	102-1084-ND◆	49.58	48.35	47.11	44.63	PTK15-Q24-T515
	20-72	5/±12	1.5/0.31	102-1091-ND◆	49.58	48.35	47.11	44.63	PTK15-Q48-T512
PTK15 Series — Wide 4:1 Input Range with Screw Terminals — RoHS Compliant									
Single	10-36	5	3.0	102-1586-ND	59.04	57.57	56.09	53.14	PTK15-Q24-S5-T
		12	1.25	102-1587-ND	59.04	57.57	56.09	53.14	PTK15-Q24-S12-T
		15	1.0	102-1588-ND	59.04	57.57	56.09	53.14	PTK15-Q24-S15-T
	20-72	5	3.0	102-1590-ND	59.04	57.57	56.09	53.14	PTK15-Q48-S5-T
		12	1.25	102-1591-ND	59.04	57.57	56.09	53.14	PTK15-Q48-S12-T
		15	1.0	102-1592-ND	59.04	57.57	56.09	53.14	PTK15-Q48-S15-T
Dual	10-36	±12	0.625	102-1589-ND	61.58	60.05	58.51	55.43	PTK15-Q24-D12-T
	20-72	±12	0.625	102-1593-ND	61.58	60.05	58.51	55.43	PTK15-Q48-D12-T
PTK25 Series — Wide 2:1 Input Range									
Single	18-36	5	5.0	102-1095-ND◆	71.00	69.23	67.45	63.90	PTK25-D24-S5
		12	2.0	102-1096-ND◆	71.00	69.23	67.45	63.90	PTK25-D24-S12
		15	1.6	102-1205-ND◆	71.00	69.23	67.45	63.90	PTK25-D24-S15
	36-72	15	1.6	102-1207-ND◆	71.00	69.23	67.45	63.90	PTK25-D48-S15
Chassis Kit for PTK25 Series – Single Output				102-1297-ND◆	11.50	11.22	10.93	10.35	UF224S75
Dual	18-36	±12	1.0	102-1098-ND◆	74.78	72.92	71.05	67.31	PTK25-D24-D12
		±15	0.8	102-1206-ND◆	74.78	72.92	71.05	67.31	PTK25-D24-D15
	36-72	±15	0.8	102-1208-ND	74.78	72.92	71.05	67.31	PTK25-D48-D15
Triple	18-36	5/±15	3.5/0.25	102-1102-ND◆	74.78	72.92	71.05	67.31	PTK25-D24-T515
PTK25 Series — Wide 2:1 Input Range with Screw Terminals — RoHS Compliant									
Single	18-36	5	5.0	102-1160-ND	83.00	80.93	78.85	74.70	PTK25-D24-S5-T
		12	2.0	102-1161-ND	83.00	80.93	78.85	74.70	PTK25-D24-S12-T

◆ ***RoHS Compliant***

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15 Watt PTK15 and 25 Watt PTK25 Series *(Cont.)*

Output	Input Voltage (VDC)	Output Voltage (VDC)	Output Current Maximum (A)	Digi-Key Part No.	Price Each 1	10	25	50	V-Infinity Part No.
Single	18-36	15	1.6	102-1594-ND	83.00	80.93	78.85	74.70	PTK25-D24-S15-T
	36-72	5	5.0	102-1162-ND	83.00	80.93	78.85	74.70	PTK25-D48-S5-T
		12	2.0	102-1163-ND	83.00	80.93	78.85	74.70	PTK25-D48-S12-T
		15	1.6	102-1596-ND	83.00	80.93	78.85	74.70	PTK25-D48-S15-T
Dual	18-36	±12	1.0	102-1595-ND	83.00	80.93	78.85	74.70	PTK25-D24-D12-T
	36-72	±12	1.0	102-1597-ND	83.00	80.93	78.85	74.70	PTK25-D48-D12-T

◆ ***RoHS Compliant***

30 Watt VCD30 Series

Features:
• 25~30W Isolated output • Efficiency to 85% • 2:1 Input range • Six-sided shield • Remote on/off control • Output trimming

Note: For safety and EMI certifications please see data sheets

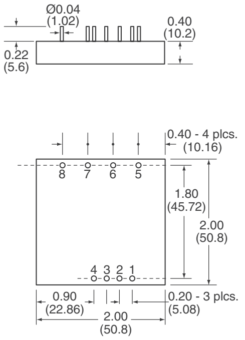

Pin Assignments Single Output	Pin Assignments Dual Output
1. Remote on/off control	1. Remote on/off control
2. No pin	2. No pin
3. -Vin	3. -Vin
4. +Vin	4. +Vin
5. Trim	5. Trim
6. -Vout	6. -Vout
7. +Vout	7. Common
8. No pin	8. +Vout

30 Watt VCD30 Series with Screw Terminals

Features:
• 25~30W Isolated output • Efficiency to 85% • 2:1 Input range • Six-sided shield • Remote on/off control • Output trimming

Note: For safety and EMI certifications please see data sheets

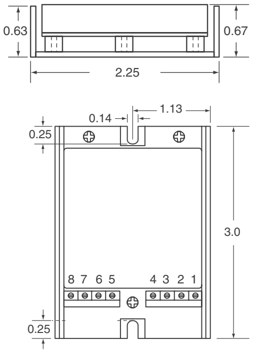

Pin Assignments Single Output	Pin Assignments Dual Output
1. N.C.	1. +Vout
2. +Vout	2. Com
3. -Vout	3. -Vout
4. Trim	4. Trim
5. Case	5. Case
6. On/Off	6. On/Off
7. -Vin	7. -Vin
8. +Vin	8. +Vin

Output	Input Voltage (VDC)	Output Voltage (VDC)	Output Current Maximum (A)	Digi-Key Part No.	Price Each 1	10	25	50	V-Infinity Part No.
VCD30 Series									
Single	9-18	3.3	5	102-1238-ND	71.00	69.23	67.45	63.90	VCD30-D12-S3R3
		5	5	102-1239-ND◆	71.00	69.23	67.45	63.90	VCD30-D12-S5
		12	2.5	102-1240-ND◆	71.00	69.23	67.45	63.90	VCD30-D12-S12
		15	2.0	102-1566-ND◆	71.00	69.23	67.45	63.90	VCD30-D12-S15
Chassis Kit for VCD30 Series – Single Output				102-1295-ND◆	11.50	11.22	10.93	10.35	UF224S18
Dual	9-18	±12	±1.25	102-1241-ND◆	74.78	72.92	71.05	67.31	VCD30-D12-D12
		±15	±1.0	102-1567-ND◆	74.78	72.91	71.04	67.31	VCD30-D12-D15
VCD30 Series with Screw Terminals — RoHS Compliant									
Single	9-18	5	5	102-1598-ND	83.00	80.93	78.85	74.70	VCD30-D12-S5-T
		12	2.5	102-1608-ND	83.00	80.93	78.85	74.70	VCD30-D12-S12-T
		15	2.0	102-1599-ND	83.00	80.93	78.85	74.70	VCD30-D12-S15-T
Dual	9-18	±12	±1.25	102-1600-ND	86.78	84.62	82.45	78.11	VCD30-D12-D12-T

◆ ***RoHS Compliant***

Single Output Half Brick — 50 Watt VHB50W and 75 Watt VHB75 Series

VHB50W Series
Features: • 33W ~ 50W isolated output • 4:1 Input range • Efficiency to 84% • Five-sided aluminum case • Remote on/off control • Continuous short circuit protection • UL listed • Industry standard half-brick package

VHB75 Series
Features: • 37.5W ~ 75W Isolated output • 2:1 Input range • Efficiency to 85% • Five-sided metal case • Remote on/off control • Continuous short circuit protection • UL listed • 300kHz Switching frequency • Regulated outputs • Industry standard half-brick package

Note: For safety and EMI certifications please see series data sheets

Pin Assignments Single Output	
1. +Vin	5. -Vout
2. On/Off	6. -Sense
3. Case	7. Trim
4. -Vin	8. +Sense
	9. +Vout

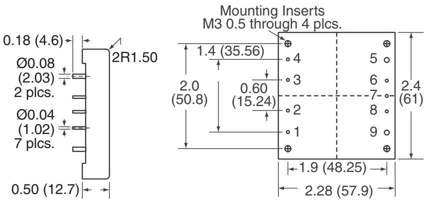

Input Voltage (VDC)	Output Voltage (VDC)	Output Current Maximum (A)	Minimum Load (mA)	Digi-Key Part No.	Price Each 1	10	25	50	V-Infinity Part No.
VHB50W Half Brick Series — RoHS Compliant									
9-36	3.3	10	50	102-1321-ND	85.46	83.32	81.19	76.91	VHB50W-Q24-S3R3
	5.0	10	50	102-1322-ND	85.46	83.32	81.19	76.91	VHB50W-Q24-S5
	12.0	4.16	50	102-1323-ND	85.46	83.32	81.19	76.91	VHB50W-Q24-S12
	15.0	3.33	50	102-1568-ND	85.46	83.32	81.19	76.92	VHB50W-Q24-S15
	24.0	2.08	50	102-1324-ND	85.46	83.32	81.19	76.91	VHB50W-Q24-S24
	48.0	1.04	50	102-1690-ND	85.46	83.32	81.19	76.91	VHB50W-Q24-S48
VHB75 Single Output Series									
9-18	2.5	15	50	102-1254-ND	99.90	97.41	94.91	89.91	VHB75-D12-S2R5
	3.3	15	50	102-1255-ND	99.90	97.41	94.91	89.91	VHB75-D12-S3R3
	5.0	15	50	102-1256-ND◆	99.90	97.41	94.91	89.91	VHB75-D12-S5
	12.0	6.25	50	102-1257-ND◆	99.90	97.41	94.91	89.91	VHB75-D12-S12
	15.0	5	50	102-1569-ND◆	99.90	97.40	94.91	89.91	VHB75-D12-S15
	24.0	3.13	50	102-1258-ND◆	99.90	97.41	94.91	89.91	VHB75-D12-S24
18-36	2.5	15	50	102-1259-ND	99.90	97.41	94.91	89.91	VHB75-D24-S2R5
	3.3	15	50	102-1260-ND	99.90	97.41	94.91	89.91	VHB75-D24-S3R3
	5.0	15	50	102-1261-ND◆	99.90	97.41	94.91	89.91	VHB75-D24-S5
	12.0	6.25	50	102-1262-ND◆	99.90	97.41	94.91	89.91	VHB75-D24-S12
	15.0	5	50	102-1570-ND◆	99.90	97.40	94.91	89.91	VHB75-D24-S15
	24.0	3.13	50	102-1263-ND◆	99.90	97.41	94.91	89.91	VHB75-D24-S24

Half Brick Heatsinks

Description	Dimensions – mm L x W x H	Thermal Resistance C/Watt	Digi-Key Part No.	Price Each	V-Infinity Part No.
Aluminum, Black	58 x 61 x 11.5	10.3	102-1488-ND◆	1.54	VHS-45
Aluminum, Black	58 x 61 x 24	4.7	102-1489-ND◆	1.94	VHS-95

◆ ***RoHS Compliant***

Wide Range Input Series - Switching Regulated Tabletops

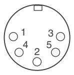

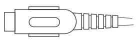

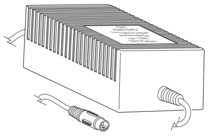

Features:
- IEC input connector • One year warranty

General Specifications:
- Storage Temperature: -55°C ~ 85°C
- Operating Temperature: 0°C ~ 40°C

Output Specifications:
- Line Regulation: ±0.2% maximum • Load Regulation: ±5% from 60% load nominal except output #2 • Cross Regulation: ±2%. Cross regulation specifies the maximum voltage change on auxiliary outputs when the +5V output load current is varied from 75% of full rated to either 50% or 100% of full rated • Set Point: ±2% at 60% load on main input • Ripple and Noise: ±1% maximum • Overload Protection: All outputs protected against overloads and short circuit. Automatic recovery upon removal of overload conditions • Overvoltage Protection: Provided on main output only and set at 115-135% • Output Overshoot: No overshoot on turn-on or turn-off • Transient Response: For all outputs, recovery to within 1% of nominal output occurs within 2 milliseconds for a 50% to 100% load step. Maximum excursion is 6% from initial voltage setpoint
- Hold-Up Time: 25msec minimum at full rated load and nominal AC input voltage • Minimum Load: Third quarter down to zero load

Approved by all major regulatory agencies

Note: Outside ring on all units is an EMI earth ground (Not to be used as a safety ground).

FCC IEC TÜV

OUTPUT PIN CONFIGURATION-5 PIN DIN

MODEL	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
Single Output Model					
WRI4212	COM	COM	12V	COM	12V
WRI4214	COM	COM	24V	COM	24V
WRI5215	COM	COM	30V	COM	30V
Dual Output Model					
MODEL	**PIN 1**	**PIN 2**	**PIN 3**	**PIN 4**	**PIN 5**
WRI3021	COM	COM	5V	COM	12V
Triple Output Model					
MODEL	**PIN 1**	**PIN 2**	**PIN 3**	**PIN 4**	**PIN 5**
WRI2731	COM	COM	5V	-12V	12V
WRI3031	COM	COM	5V	-12V	12V
WRI4231	COM	COM	5V	-12V	12V
WRI4232	COM	COM	5V	-12V	12V

Regulated Wallmounts

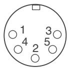

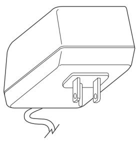

Features: • UL 1310 and UL 1950 listed, CSA Approved • One year warranty

Specifications: • Output Ripple: 20 millivolts (p-p) • Operating Temperature: 0°C ~ 40°C • Combined Regulation: ±5% • Fusing: Internal and non-replaceable

Options: • Shielded output cable - S Option: Shielded cable with EMI ground tied to outer ring of DIN connector (Not to be used as safety ground)

Connector Type: DIN

UL and CSA Approved

DIN PINOUT MATRIX

MODEL	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
WM063	COM	N/C	5V	-12V	12V
WM075	COM	N/C	5V	COM	5V
WM144	COM	N/C	12V	COM	12V

Regulated Tabletops

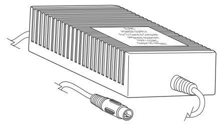

DIN PINOUT MATRIX

MODEL	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
WM113TT	COM	N/C	5V	-12V	12V
WM220-1	COM	N/C	5V	-12V	12V

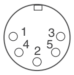

Features: • UL 1310 listed, CSA Approved • One year warranty

Specifications: • Output Ripple: 20 millivolts (p-p) • Operating Temperature: 0°C ~ 40°C • Combined Regulation: ±5% • Fusing: Internal and non-replaceable

Options: • ***Shielded output cable - S Option***: Shielded cable with EMI ground tied to outer ring of DIN connector (Not to be used as safety ground) • Connector Type: Din.

UL and CSA Approved

AC Input	DC Outputs			Max. Watts	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			Elpac Part No.
	Single	Double	Triple				1	5	10	
Wide Range Input Series-Regulated Tabletops										
90-250VAC, 47-440Hz	12V, 3.5A	—	—	42†	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS112-ND	107.00	96.30	88.81	WRI4212-D5
	24V, 1.75A	—	—	42†	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS113-ND	114.00	102.60	94.62	WRI4214-D5
	5V, 2.0A	12V, 1.5/2.5A*	—	30	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS109-ND	118.00	106.20	97.94	WRI3021-D5
	5V, 3.0A	12V, 0.5A	-12V, 0.5A	27††	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS106-ND	128.00	115.20	106.24	WRI2731-D5
	5V, 3.0A	12V, 2.5/4.0A*	-12V, 0.5A	42	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS115-ND	124.00	111.60	102.92	WRI4231-D5
	5V, 4.8A	12V, 1.5/2.5A*	-12V, 0.5A	42	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS116-ND	124.00	111.60	102.92	WRI4232-D5
Regulated Wallmounts										
115VAC, 60Hz	5V, 600mA	+12V, 180mA	-12V, 160mA	6.8	1.80 x 2.60 x 4.50 (45.72 x 66.04 x 114.30)	EPS142-ND	41.00	36.90	34.03	WM063-1950-D5
	5V, 1.5A	—	—	7.5	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS143-ND	40.00	36.00	33.20	WM075-1950-D5
	12V, 1.2A	—	—	14.4	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS145-ND	44.00	39.60	36.52	WM144-1950-S
Regulated Tabletops										
115VAC, 60Hz	5V, 860mA	+12V, 300mA	12V, 300mA	11.3	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS131-ND	56.00	50.40	46.48	WM113TT
	5V, 2.0A	-12V, 500mA	12V, 500mA	22	2.28 x 3.10 x 5.025 (57.91 x 78.74 x 127.64)	EPS134-ND	120.00	108.00	99.60	WM220-1

† Minimum load on models=8 Watts †† Minimum load on models=2 Watts * Maximum Peak

Unregulated Brute Force Linear Power Supplies

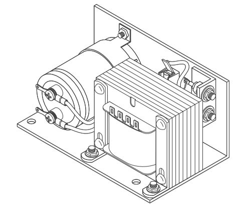

Features:
- Isolated outputs for positive or negative operation • Full rated output from 0°C ~ 40°C • Selectable input terminations • Standard Input: 105/115/125VAC, 47-440 Hz • Warranty: 5 years

Vdc	Amps	Max. Watts	No Load (V)	Full Load (V)	Dimensions - Inch (mm) L x W x H	Weight (lbs)	Digi-Key Part No.	Price Each 1	5	10	Elpac Part No.
24	2.4	60	34.5	26.5	6.3 x 3 x 3.7 (160.02 x 76.2 x 93.98)	5	EPS300-ND	220.00	198.00	182.60	BFS60-24
12	15	200	15.4	12.5	8.1 x 3.9 x 5 (205.74 x 99.06 x 127)	12	EPS304-ND	220.00	198.00	182.60	BFS200-12
24	20	500	29.2	24.6	9 x 4.6 x 5.6 (228.6 x 116.84 x 142.24)	20	EPS306-ND	272.00	244.80	225.76	BFS500-24

Domestic

WP12 Series: • **A/C Input:** 90-132VAC • **Input Protection:** Internal input line fuse • **Overload Protection:** Output protected against overload and short circuit • **Minimum Load:** 0 Watts • **Operating Temperature Range:** 0°C ~ 40°C • **Output Cable:** 6 foot with 760 type barrel plug; ID = 2.5mm, OD = 5.5mm, Barrel Length 10.00mm - Inside Positive • **Two-Year Warranty** • **Agency Approvals:** NRTL (UL) and CSA • **EMI:** FCC Class B

DC Outputs Single	Max. Power	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	5	10	Elpac Part No.
Wall Mount - Domestic Power Supply							
5V @ 2.4A	12W	3.00 x 2.00 x 1.00 (76.20 x 50.80 x 25.40)	EPS162-ND	32.50	29.25	26.98	WP1205-760
12V @ 1A	12W		EPS163-ND	32.50	29.25	26.98	WP1212-760
24V @ 0.5A	12W		EPS164-ND	32.50	29.25	26.98	WP1224-760

WP12 Series

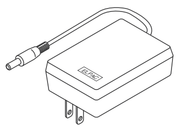

ELPAC POWER SYSTEMS

AC Adapters — Medical Grade

MSM/MS SERIES

Features:

- Wide range AC input • Fully regulated output
- Medical grade approval • 5 Year Warranty • Meets FCC class B; CISPR 11 class B (MS Series Only)
- EMC per EN60601-1-2

Output Specifications:

- Line Regulations: ±0.5% (typical) • Load Regulations: ±2% (typical) • Short Circuit Protection: Pulsing mode, auto recovery • Ripple/noise (VP-P): ±1% (20MHz bandwidth)

Safety Approvals:

- For safety ratings and certifications, please see data sheet for specified series.

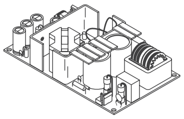

MW SERIES

Features:

- 3-pin IEC 320 inlet • Wide range AC input • Fully regulated output • 5 Year Warranty • Meets FCC class B, CISPR 11 class B • Input Connector (P1): IEC 60320 inlet plug • Output Connector (P2): Barrel type (5.5 mm x 2.5mm x 9.5mm), Switchcraft P/N760 (MW65: DIN-5 pin circular connector, MWP90: DIN-8 pin circular connector) • Level B EMI filter

Output Specifications:

- Line Regulation: ±1% (typical) • Load Regulation: ±5% (typical) • Short circuit protected: Pulsing mode, auto recovery • Ripple and Noise (VP-P): <1% (20MHz bandwidth)

Safety Approvals:

- CSA C22.2 No. 60601.1-M90 • UL 60601-1, 2nd Edition • cTUVus • IEC 60601-1 • CE Marked
- EN60601-1-2:2001

Mating Connectors for 760 Plug: CP-102B

Mating Connectors for 8-Pin DIN Plug: CP-1180 In-Line Receptacle or CP-1280 Panel Mount Receptacle

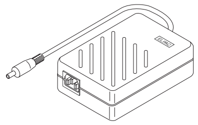

		DC	Mating Connectors						Price Each			
Series	**AC Input**	**Outputs Single**	**Max. Watts**	**Housing Input**	**Housing Output**	**Contacts**	**Dimensions - Inch (mm) L x W x H**	**Digi-Key Part No.**	**1**	**5**	**10**	**Elpac Part No.**
Internal — Single Output												
MSM07	100-240VAC,	5.1V @ 1.4A	7	WM18874	WM18873	WM17406	2.28 x 2.00 x 0.713	EPS342-ND	30.20	27.18	25.07	MSM0705
	50-60Hz	12V @ 0.6A					(57.90 x 50.80 x 18.10)	EPS343-ND	30.20	27.18	25.07	MSM0712
		24V @ 0.3A						EPS345-ND	30.20	27.18	25.07	MSM0724
		28V @ 0.3A						EPS346-ND	30.20	27.18	25.07	MSM0728
MSM20	100-240VAC,	12V @ 1.67A	20	8.0” Leads	8.0” Leads	—	3.54 x 2.16 x 0.71	EPS308-ND	43.95	39.57	36.49	MSM2012
	50-60Hz	15V @ 1.34A					(90.00 x 55.00 x 18.00)	EPS309-ND	43.95	39.57	36.49	MSM2015
		24V @ 0.84A						EPS310-ND	43.95	39.57	36.49	MSM2024
MSM28	100-240VAC,	12V @ 2.3A	28	A19953	A19952	A19993CT	4.00 x 2.60 x 1.00	EPS311-ND	48.60	43.76	40.36	MSM2812
	50-60Hz	15V @ 1.9A					(101.60 x 66.15 x 25.40)	EPS312-ND	48.60	43.76	40.36	MSM2815
		24V @ 1.2A						EPS313-ND	48.60	43.76	40.36	MSM2824
MSM40	90-264VAC,	12V @ 3.3A	40	A19951	A19954	A19993CT	5.00 x 3.00 x 1.06	EPS365-ND◆	35.91	34.55	32.77	MS4012F
	47-63Hz	15V @ 2.6A					(127.00 x 76.20 x 26.90)	EPS366-ND◆	35.91	34.55	32.77	MS4015F
		18V @ 2.2A						EPS367-ND◆	35.91	34.55	32.77	MS4018F
		24V @ 1.67A						EPS368-ND◆	35.91	34.55	32.77	MS4024F
MSM60	100-240VAC,	12V @ 5.0A	60	WM2101	WM2102	WM2300CT	5.00 x 3.00 x 1.30	EPS318-ND	61.19	58.76	56.92	MSM6012
	50-60Hz	24V @ 2.5A					(127.00 x 76.20 x 33.00)	EPS319-ND	61.19	58.76	56.92	MSM6024
MSM65	100-240VAC,	12V @ 5.4A	65	A19951	A19954	A19993CT	5.00 x 3.00 x 1.10	EPS369-ND◆	54.93	54.38	50.15	MS6512F
	50-60Hz	15V @ 4.3A					(127.00 x 76.20 x 28.00)	EPS370-ND◆	54.93	54.38	50.15	MS6515F
		24V @ 2.7A						EPS371-ND◆	54.93	54.38	50.15	MS6524F
MSM75	90-264VAC,	15V @ 5.0A	75	A19953	A19957	A32533	5.75 x 3.40 x 1.66	EPS354-ND	65.92	59.33	54.72	MSM7515
	47-63Hz	24V @ 3.1A					(146.05 x 86.36 x 42.24)	EPS348-ND	65.92	59.33	54.72	MSM7524
		28V @ 2.7A						EPS349-ND	65.92	59.33	54.72	MSM7528
MSM80F	85-264VAC,	9V @ 8.8A	80	A19951	A19954	A19993CT	4.00 x 2.00 x 1.1	EPS389-ND◆	90.08	81.08	74.77	MSM8009F
	47-63Hz	12V @ 6.6A					(101.60 x 50.8 x 27.94)	EPS390-ND◆	90.08	81.08	74.77	MSM8012F
		15V @ 5.3A						EPS391-ND◆	90.08	81.08	74.77	MSM8015F
		24V @ 3.4A						EPS392-ND◆	90.08	81.08	74.77	MSM8024F
MSMP115F	85-264VAC,	12V @ 9.6A	115	A19953	A19956	A31398CT	5.25 x 3.30 x 1.50	EPS393-ND◆	141.56	127.41	117.50	MSMP11512F
	47-63Hz	15V @ 7.7A					(133.35 x 83.82 x 38.10)	EPS394-ND◆	141.56	127.41	117.50	MSMP11515F
		24V @ 4.8A						EPS395-ND◆	141.56	127.41	117.50	MSMP11524F
		28V @ 4.1A						EPS396-ND◆	141.56	127.41	117.50	MSMP11528F
MSMP150F	100-240VAC,	12V @ 15.0A	150	WM23610	WM3703	WM18518	7.00 x 4.50 x 1.70	EPS397-ND◆	218.78	196.91	181.59	MSMP15012F
	47-63Hz	15V @ 12.0A					(177.80 x 114.30 x 43.18)	EPS398-ND◆	218.78	196.91	181.59	MSMP15015F
		24V @ 7.5A						EPS399-ND◆	218.78	196.91	181.59	MSMP15024F
		28V @ 6.4A						EPS400-ND◆	218.78	196.91	181.59	MSMP15028F
		48V @ 3.8A						EPS401-ND◆	218.78	196.91	181.59	MSMP15048F
MSMP250F	100-240VAC,	12V @ 28.0A	250	—	—	A31086	8.00 x 5.00 x 1.50	EPS402-ND◆	257.38	231.65	213.63	MSMP25012F
	47-63Hz	15V @23.0A					(203.20 x 127.00 x 38.10)	EPS403-ND◆	257.38	231.65	213.63	MSMP25015F
		24V @ 14.5A						EPS404-ND◆	257.38	231.65	213.63	MSMP25024F
		28V @ 12.5A						EPS405-ND◆	257.38	231.65	213.63	MSMP25028F
		48V @ 7.4A						EPS406-ND◆	257.38	231.65	213.63	MSMP25048F
Multiple Output												
MSM40	85-264VAC,	5.1V@4A, 12V@2A, -12V@0.4A	40	A19951	A19954	A31398CT	5.00 x 3.00 x 1.38	EPS339-ND	71.40	64.26	59.27	MSM40A
	47-63Hz	5.1V@4A, 15V@2A, -15V@0.4A					(127.00 x 76.20 x 35.05)	EPS340-ND	71.40	64.26	59.27	MSM40B
		5.1V@4A, 24V@1A, -12V@0.4A						EPS341-ND	71.40	64.26	59.27	MSM40D
External (requires power cord Q132 or Q133)												
MW12	100-240VAC,	12V @ 1.0A	12	—	—	—	3.35 x 1.97 x 1.30	EPS323-ND	35.78	32.21	29.70	MW1212-760-NC-WH
	50-60Hz	12V @ 1.0A					(85.00 x 50.00 x 33.00)	EPS407-ND ***NEW!***	35.77	32.21	29.70	MW1212-760-NC-BK
		24V @ 0.5A						EPS324-ND	35.78	32.21	29.70	MW1224-760-NC-WH
MW24	100-240VAC,	12V @ 2.0A	24	—	—	—	4.25 x 2.50 x 1.30	EPS325-ND	43.50	39.15	36.11	MW2412-760-NC-WH
	47-63Hz	15V @ 1.6A					(108.00 x 64.50 x 33.00)	EPS326-ND	43.50	39.15	36.11	MW2415-760-NC-WH
		15V @ 1.6A						EPS408-ND ***NEW!***	43.49	39.15	36.11	MW2415-760-NC-BK
		18V @ 1.33A						EPS327-ND	43.50	39.15	36.11	MW2418-760-NC-WH
		24V @ 1.0A						EPS328-ND	43.50	39.15	36.11	MW2424-760-NC-WH

◆ ***RoHS Compliant***

(Continued)

M

AC Adapters — Medical Grade *(Cont.)*

Series	AC Input	DC Outputs Single	Mating Connectors		Housing Output	Contacts	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			Elpac Part No.
			Max. Watts	Housing Input					1	5	10	
MW40	100-240VAC, 47-63Hz	12V @ 3.3A	40	—	—	—	5.00 x 3.00 x 1.30 (127.00 x 76.20 x 33.02)	EPS360-ND◆	53.44	48.10	44.36	MW4012-760F-NC-WH
		15V @ 2.7A						EPS361-ND◆	53.44	48.10	44.36	MW4015-760F-NC-WH
		18V @ 2.2A						EPS362-ND◆	53.44	48.10	44.36	MW4018-760F-NC-WH
		24V @ 1.67A						EPS363-ND◆	53.44	48.10	44.36	MW4024-760F-NC-WH
MWP90	90-264VAC, 47-63Hz	12V @ 7.5A	90	—	—	—	5.90 x 3.33 x 1.50 (149.86 x 84.58 x 38.10)	EPS350-ND	166.84	150.16	138.48	MWP9012-D8-NC-BK
		15V @ 6.0A						EPS351-ND	166.84	150.16	138.48	MWP9015-D8-NC-BK
		18V @ 5.0A						EPS352-ND	169.78	152.81	140.92	MWP9018-D8-NC-BK
		24V @ 3.75A						EPS353-ND	163.90	147.51	136.04	MWP9024-D8-NC-BK

◆ ***RoHS Compliant***

International

Features: • 95-250VAC; 47-63Hz Input • IEC 320 Input connector for worldwide use • Input protected VIA internal line fuse • Ripple and Noise: ±1% PK-PK maximum • Overload Protection: All outputs protected-auto recovery • Operating Temperature Range: 0°C ~ 40°C • Output Cable - 6 foot - 760 standard (ID=2.5mm/OD=5.5mm/Barrel length 10mm/inside positive) or 5-pin DIN as shown • Two-year warranty

Agency Approvals: • UL1012 Listed • CSA Certified to 22.2 No. 223 • TUV Licensed, IEC 950 • CE Certified • FCC/VDE Class B Emissions

Fig. 1

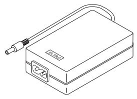

Fig. 2

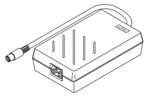

Fig. 3

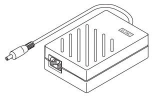

See data sheet for voltage pinout

5-pin DIN

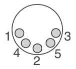

760 Plug

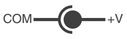

Fig.	DC Outputs			Maximum Power	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			Elpac Part No.
	Single	Double	Triple				1	5	10	
Desk Mount — International Power Supply										
1	12V @ 4.0A	—	—	48W	4.10 x 2.20 x 1.20 (104.14 x 55.88 x 30.48)	EPS168-ND	82.80	74.52	68.73	W4012-760
2	5V @ 3.0A	12V @ 2.5A	-12V @ 0.5A	42W	5.80 x 3.30 x 1.50 (147.32 x 83.82 x 38.10)	EPS171-ND	138.00	124.20	114.54	W4231-D5
3	12V @ 1.7A	—	—	20W	4.30 x 2.30 x 1.30 (109.22 x 58.42 x 33.02)	EPS174-ND	47.28	42.56	39.25	M42012-760

FW Series

RoHS COMPLIANT

Features: • Wide range AC input • Fully enclosed plastic case • Fully regulated output • High efficiency • Five year Warranty • Operating Temperature: 0° ~ 40°C • Storage Temperature: -55° ~ 85°C

Safety: • CE Marked • For safety ratings and certifications, please see data sheet for specified series.

See data sheet for voltage pinout

5-pin DIN

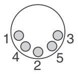

8-pin DIN

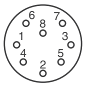

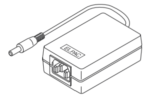

760 Plug

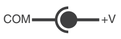

DC Outputs Single	Maximum Power	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			Elpac Part No.
				1	5	10	
FW18 Series							
5V @ 3A	15W	3.35 x 1.97 x 1.30 (85.0 x 50.0 x 33 .0)	EPS332-ND	36.86	33.18	30.60	FW1805-760F
12V @ 1.5A	18W		EPS333-ND	36.86	33.18	30.60	FW1812-760F
24V @ 0.75A	18W		EPS334-ND	36.86	33.18	30.60	FW1824-760F
FW30 Series							
12V @ 2.5A	30W	4.25 x 2.50 x 1.30 (108.0 x 64.5 x 33.0)	EPS355-ND	52.58	47.33	43.65	FW3012-760F
15V @ 2.0A	30W		EPS356-ND	52.58	47.33	43.65	FW3015-760F
24V @ 1.25A	30W		EPS357-ND	52.58	47.33	43.65	FW3024-760F
FW50 Series							
12V @ 4.15A	50W	5.00 x 3.00 x 1.30 (127.0 x 76.2 x 33.0)	EPS358-ND	61.24	55.12	50.83	FW5012-760F
24V @ 2.10A	50W		EPS359-ND	61.24	55.12	50.83	FW5024-760F
FW60 Series							
12V @ 5.0A	60W	6.50 x 3.85 x 2.60 (165.0 x 98.0 x 66.0)	EPS335-ND	73.74	66.37	61.21	FW6012-D5F
24V @ 2.5A	60W		EPS336-ND	73.74	66.37	61.21	FW6024-D5F
FW72 Series							
12V @ 6.0A	72W	6.50 x 3.85 x 2.60 (165.0 x 98.0 x 66.0)	EPS337-ND	74.36	66.93	61.72	FW7212-D5F
24V @ 3.0A	72W		EPS338-ND	74.36	66.93	61.72	FW7224-D5F
FW100 Series							
24V @ 4.15A	100W	7.36 x 4.33 x 2.32 (187.0 x 110.0 x 59.0)	EPS364-ND	138.98	125.09	115.36	FWP10024-D5F
FWC18F Series — CEC Compliant							
5V @ 3.60A	15W	3.35 x 1.97 x 1.30 (85.0 x 50.0 x 33 .0)	EPS372-ND	38.80	34.92	32.21	FWC1805-760F
12V @ 1.50A	18W		EPS373-ND	38.80	34.92	32.21	FWC1812-760F
18V @ 1.00A	18W		EPS374-ND	38.80	34.92	32.21	FWC1818-760F
24V @ 0.75A	18W		EPS375-ND	38.80	34.92	32.21	FWC1824-760F
FWC30F Series — CEC Compliant							
9V @ 3.33A	30W	4.25 x 2.50 x 1.30 (108.0 x 64.5 x 33.0)	EPS376-ND	57.80	52.02	47.98	FWC3009-760F
12V @ 2.5A	30W		EPS377-ND	57.80	52.02	47.98	FWC3012-760F
15V @ 2.0A	30W		EPS378-ND	57.80	52.02	47.98	FWC3015-760F
18V @ 1.67A	30W		EPS379-ND	57.80	52.02	47.98	FWC3018-760F
24V @ 1.25A	30W		EPS380-ND	57.80	52.02	47.98	FWC3024-760F
FWC50F Series — CEC Compliant							
12V @ 4.15A	50W	5.00 x 3.00 x 1.30 (127.0 x 76.2 x 33.0)	EPS381-ND	65.52	58.97	54.39	FWC5012-760F
18V @ 2.75A	50W		EPS382-ND	65.52	58.97	54.39	FWC5018-760F
24V @ 2.10A	50W		EPS383-ND	65.52	58.97	54.39	FWC5024-760F
FWB100 Series							
12V @ 8.3A	100W	7.36 x 4.33 x 2.32 (187.0 x 110.0 x 59.0)	EPS384-ND	118.54	106.69	98.39	FWB100012A-12B
24V @ 4.13A	100W		EPS385-ND	118.54	106.69	98.39	FWB100024A-11A

Photo Transistor Output Optoisolators

Fig.	Isolation Voltage	CTR (Typical)	VCEO (Max.)	t_{on}/t_{off} (µsec.) (Typ.)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel	
							1	10	100		Qty.	Pricing
1	5000	80 ~ 600%	80	3/5	DIP	PS2501-1A-ND◆	.42	.35	.30	—	—	—
	5000	80 ~ 160%	80	3/5	DIP	PS2501-1-H-A-ND◆	.36	.31	.26	—	—	—
	5000	200 ~ 400%	80	3/5	DIP	PS2501-1-L-A-ND◆	.36	.31	.26	—	—	—
	5000	50 ~ 400%	70	5/7	DIP	PS2501A-1-A-ND◆	.36	.30	.26	—	—	—
	5000	50 ~ 400%	70	5/7	SMT	PS2501AL-1-ND§◆	.42	.35	.30	PS2501AL-1TR-ND◆	1,000	210.00
	5000	80 ~ 600%	80	3/5	SMT	PS2501L-1A-ND◆	.51	.43	.36	—	—	—
	5000	80 ~ 160%	80	3/5	SMT	PS2501L-1-H-A-ND◆	.49	.41	.35	—	—	—
	5000	50 ~ 200%	120	5/25	DIP	PS2513-1-A-ND◆	.71	.59	.50	—	—	—
	5000	20 ~ 80%	80	3/5	DIP	PS2521-1-A-ND◆	1.09	.91	.77	—	—	—
	5000	20 ~ 80%	80	3/5	SMT	PS2521L-1CT-ND§◆	1.20	1.00	.85	PS2521L-1TR-ND◆	1,000	600.00
	5000	80 ~ 400%	80	3/5	DIP	PS2561-1A-ND◆	.57	.48	.41	—	—	—
	5000	80 ~ 400%	80	3/5	DIP	PS2561-1-VA-ND‡◆	.57	.48	.41	—	—	—
	5000	50 ~ 300%	70	5/7	DIP	PS2561A-1-A-ND◆	.45	.38	.32	—	—	—
	5000	80 ~ 160%	70	5/7	SMT	PS2561AL-1-H-A-ND◆	.50	.42	.35	—	—	—
	5000	50 ~ 300%	70	5/7	SMT	PS2561AL-1CT-ND§◆	.47	.39	.33	PS2561AL-1TR-ND◆	2,000	232.50/M
	5000	50 ~ 400%	80	3/5	DIP	PS2561B-1-A-ND◆	.75	.63	.53	—	—	—
	5000	80 ~ 400%	80	3/5	SMT	PS2561L-1A-ND◆	.63	.53	.45	—	—	—
	5000	80 ~ 160%	80	3/5	SMT	PS2561L-1-H-A-ND◆	.51	.43	.36	—	—	—
	5000	80 ~ 400%	80	3/5	SMT	PS2561L-1-VA-ND‡◆	.63	.53	.45	—	—	—
	5000	80 ~ 400%	80	3/5	DIP	PS2561L1-1-VA-ND*‡◆	.63	.53	.45	—	—	—
	5000	200%	80	3/5	SMT	PS2561L2-1-V-A-ND‡◆	.63	.53	.45	—	—	—
	5000	80 ~ 160%	80	3/5	DIP	PS2581L1-H-A-ND◆	.50	.42	.35	—	—	—
	3750	50 ~ 300%	40	3/5	SOP	PS2701-1A-ND◆	.56	.47	.40	PS2701-1ATR-ND◆	3,500	204.00/M
	3750	150 ~ 300%	40	3/5	SOP	PS2701-1-P-A-ND◆	.47	.40	.34	—	—	—
	3750	50 ~ 300%	70	5/7	SOP	PS2701A-1-ND§◆	.48	.40	.34	PS2701A-1TR-ND◆	3,500	229.50/M
	3750	150 ~ 300%	70	5/7	SOP	PS2701A-1-P-A-ND◆	.44	.37	.32	—	—	—
	3750	50 ~ 400%	120	10/10	SOP	PS2703-1A-ND◆	.66	.55	.47	PS2703-1ATR-ND◆	3,500	282.00/M
	3750	200 ~ 400%	120	10/10	SOP	PS2703-1-K-A-ND◆	.59	.50	.42	—	—	—
	3750	50 ~ 150%	120	10/10	SOP	PS2703-1-M-A-ND◆	.59	.50	.42	—	—	—
	3750	100 ~ 200%	40	4/5	SOP	PS2711-1-M-A-ND◆	.62	.52	.44	—	—	—
	3750	50 ~ 400+%	40	4/5	SOP	PS2761-1ACT-ND§◆	.74	.62	.52	PS2761-1ATR-ND◆	3,500	367.50/M
	2500	80 ~ 600%	80	3/5	SSOP	PS2801-1ACT-ND§◆	.75	.63	.53	PS2801-1ATR-ND◆	3,500	375.00/M
	2500	100 ~ 300%	80	3/5	SOP	PS2801-1-L-A-ND◆	.63	.53	.45	—	—	—
	2500	50 ~ 400%	70	5/7	SSOP	PS2801A-1-ND§◆	.63	.53	.45	PS2801A-1TR-ND◆	3,500	315.00/M
	2500	100 ~ 400%	40	4/5	SSOP	PS2811-1ACT-ND§◆	.71	.60	.51	PS2811-1ATR-ND◆	3,500	357.00/M
	2500	100 ~ 400%	40	4/5	Mini-Flat	PS2911-1ACT-ND§◆	1.14	.95	.81	PS2911-1ATR-ND◆	3,500	570.00/M
	2500	200%	40	40/120	Mini-Flat	PS2911-1-K-A-ND◆	1.20	1.00	.85	—	—	—
	2500	100 ~ 200%	40	4/5	Mini-Flat	PS2911-1-M-A-ND◆	1.20	1.00	.85	—	—	—
	2500	50 ~ 100%	120	5/50	Mini-Flat	PS2913-1-ND§◆	1.39	1.16	.98	PS2913-1TR-ND◆	3,500	661.50/M
	2500	50 ~ 100%	120	5/50	Mini-Flat	PS2913-1-M-A-ND◆	1.39	1.16	.98	—	—	—
2	5000	80 ~ 600%	80	3/5	DIP	PS2501-2A-ND◆	1.13	.94	.80	—	—	—
	5000	80 ~ 600%	80	3/5	SMT	PS2501L-2A-ND◆	1.23	1.03	.87	—	—	—
	3750	50 ~ 400%	120	10/10	SOP	PS2703-2-ND	1.44	1.20	1.02	—	—	—
3	5000	80 ~ 600%	80	3/5	DIP	PS2501-4A-ND◆	1.95	1.63	1.38	—	—	—
	5000	80 ~ 600%	80	3/5	SMT	PS2501L-4A-ND◆	2.04	1.70	1.44	—	—	—
	2500	80 ~ 600%	80	3/5	SSOP	PS2801-4A-ND◆	3.10	2.79	2.38	PS2801-4ATR-ND◆	2,500	1495.00/M
	2500	100 ~ 400%	40	4/5	SSOP	PS2811-4A-ND◆	3.15	2.84	2.42	PS2811-4ATR-ND◆	2,500	1612.00/M
4	5000	200 ~ 2000%	40	100/100	DIP	PS2502-1A-ND◆	.74	.62	.52	—	—	—
	5000	200 ~ 2000%	40	100/100	DIP	PS2562-1-A-ND◆	1.02	.85	.72	—	—	—
	5000	200 ~ 2000%	40	100/100	SMT	PS2562L-1-ND§◆	.89	.74	.63	PS2562L-1TR-ND◆	2,000	442.50/M
	3750	200 ~ 2000%	40	200/200	SOP	PS2702-1A-ND◆	.77	.65	.55	PS2702-1ATR-ND◆	3,500	450.00/M
	2500	200 ~ 2000%	40	200/200	SSOP	PS2802-1ACT-ND§◆	1.09	.91	.77	PS2802-1ATR-ND◆	3,500	544.50/M
5	5000	200 ~ 2000%	40	100/100	DIP	PS2502-2A-ND◆	1.77	1.48	1.25	—	—	—
6	5000	200 ~ 2000%	40	100/100	DIP	PS2502-4A-ND◆	2.75	2.48	2.11	—	—	—
	2500	200 ~ 2000%	40	200/200	SSOP	PS2802-4A-ND◆	3.93	3.54	3.01	PS2802-4ATR-ND◆	2,500	1443.00/M
7	5000	100 ~ 400%	40	20/30	DIP	PS2503-1-A-ND◆	.93	.78	.66	—	—	—
	5000	100 ~ 400%	40	20/30	SMT	PS2503L-1A-ND§◆	.99	.83	.70	PS2503L-1ATR-ND◆	1,000	495.00
	2500	50 ~ 400%	40	4/5	SSOP	PS2865-1A-ND§◆	.95	.80	.67	PS2865-1ATR-ND◆	3,500	445.50/M
8	5000	100 ~ 400%	40	20/30	DIP	PS2503-2-A-ND◆	1.87	1.56	1.32	—	—	—
	5000	100 ~ 400%	40	20/30	SMT	PS2503L-2-A-ND◆	1.93	1.61	1.36	—	—	—
9	5000	100 ~ 400%	40	20/30	DIP	PS2503-4-A-ND◆	2.85	2.57	2.19	—	—	—
	5000	100 ~ 400%	40	20/30	SMT	PS2503L-4-A-ND◆	2.90	2.61	2.23	—	—	—
10	5000	80 ~ 600%	80	3/5	DIP	PS2505-1A-ND◆	.43	.36	.31	—	—	—
	5000	80 ~ 600%	80	3/5	SMT	PS2505L-1A-ND◆	.60	.50	.43	—	—	—
	5000	20 ~ 80%	80	3/5	DIP	PS2525-1-A-ND◆	1.31	1.10	.93	—	—	—
	5000	80 ~ 400%	80	3/5	DIP	PS2565-1A-ND◆	.69	.58	.49	—	—	—
	5000	80 ~ 400%	80	3/5	DIP	PS2565-1-VA-ND‡◆	.69	.58	.49	—	—	—
	5000	80 ~ 400%	80	3/5	SMT	PS2565L-1A-ND◆	.72	.60	.51	—	—	—
	5000	80 ~ 400%	80	3/5	SMT	PS2565L-1-VA-ND‡◆	.72	.60	.51	—	—	—
	3750	50 ~ 300%	40	3/5	SOP	PS2705-1A-ND◆	.69	.58	.49	PS2705-1ATR-ND◆	3,500	345.00/M
	3750	50 ~ 300%	70	5/7	SOP	PS2705A-1-ND§◆	.51	.43	.36	PS2705A-1TR-ND◆	3,500	255.00/M
	3750	50 ~ 400%	40	4/5	SOP	PS2765-1A-ND§◆	.89	.75	.63	PS2765-1ATR-ND◆	3,500	403.50/M
	2500	80 ~ 600%	80	3/5	SSOP	PS2805-1ACT-ND§◆	.91	.76	.64	PS2805-1ATR-ND◆	3,500	454.50/M
	2500	50 ~ 400%	70	5/7	SSOP	PS2805A-1-ND§◆	.75	.63	.53	PS2805A-1TR-ND◆	3,500	375.00/M
	2500	100 ~ 400%	40	4/5	Mini-Flat	PS2915-1CT-ND§	1.19	.99	.84	PS2915-1TR-ND	3,500	675.00/M
	2500	100 ~ 400%	40	4/5	Mini-Flat	PS2915-1ACT-ND§◆	1.52	1.27	1.08	PS2915-1ATR-ND◆	3,500	760.50/M
11	5000	80 ~ 600%	80	3/5	DIP	PS2505-2A-ND◆	1.40	1.17	.99	—	—	—
	5000	80 ~ 600%	80	3/5	SMT	PS2505L-2A-ND◆	1.58	1.32	1.12	—	—	—
12	5000	80 ~ 600%	80	3/5	DIP	PS2505-4A-ND◆	2.70	2.25	1.90	—	—	—
	5000	80 ~ 600%	80	3/5	SMT	PS2505L-4A-ND◆	2.13	1.92	1.63	—	—	—
	2500	80 ~ 600%	80	3/5	SSOP	PS2805-4A-ND◆	4.98	4.48	3.82	—	—	—
	2500	50 ~ 400%	70	5/7	SSOP	PS2805A-4-A-ND◆	3.38	3.04	2.59	—	—	—
	2500	100 ~ 400%	40	4/5	SSOP	PS2815-4A-ND◆	3.38	3.04	2.59	PS2815-4ATR-ND◆	2,500	1729.00/M
13	5000	200 ~ 2000%	40	100/100	DIP	PS2506-1A-ND◆	.99	.83	.70	—	—	—
	5000	200 ~ 2000%	40	100/100	DIP	PS2566-1-A-ND◆	1.02	.85	.72	—	—	—
	5000	200 ~ 2000%	40	100/100	SMT	PS2566L-1-ND§◆	1.07	.89	.75	PS2566L-1TR-ND◆	2,000	499.50/M
	3750	200 ~ 2000%	40	200/200	SOP	PS2706-1-ND§◆	1.05	.88	.74	PS2706-1TR-ND◆	3,500	457.50/M
	2500	200 ~ 2000%	40	200/200	SOP	PS2806-1ACT-ND§◆	1.36	1.14	.96	PS2806-1ATR-ND◆	3,500	679.50/M
14	5000	200 ~ 2000%	40	100/100	DIP	PS2506-2A-ND◆	1.97	1.65	1.39	—	—	—
15	5000	200 ~ 2000%	40	100/100	DIP	PS2506-4A-ND◆	3.38	3.04	2.59	—	—	—
	2500	200 ~ 2000%	40	200/200	SSOP	PS2806-4-ND	6.18	5.56	4.74	—	—	—
	2500	200 ~ 2000%	40	200/200	SSOP	PS2806-4A-ND◆	6.18	5.56	4.74	PS2806-4ATR-ND◆	2,500	2951.00/M
16	5000	1500 ~ 6500%	300	100/100	DIP	PS2532-1A-ND◆	.98	.82	.70	—	—	—
	5000	1500 ~ 6500%	300	100/100	SMT	PS2532L-1A-ND◆	1.04	.87	.73	—	—	—
	2500	1500 ~ 4000%	300	100/100	SOP	PS2732-1-ND§◆	1.31	1.10	.93	PS2732-1TR-ND◆	3,500	540.00/M
	2500	1500 ~ 4000%	350	100/100	SOP	PS2733-1A-ND§◆	1.69	1.41	1.19	PS2733-1ATR-ND◆	3,500	813.00/M
	2500	400 ~ 4500%	350	20/5	SSOP	PS2833-1A-ND§◆	2.01	1.68	1.42	PS2833-1ATR-ND◆	3,500	972.00/M
	2500	400 ~ 4500%	350	20/5	Mini-Flat	PS2933-1-ND§◆	2.08	1.74	1.47	PS2933-1TR-ND◆	3,500	1006.50/M
17	3750	400 ~ 2000%	300	100/100	SSOP	PS2832-4A-ND◆	5.03	4.53	3.86	—	—	—
	2500	400 ~ 4500%	350	20/5	SSOP	PS2833-4-ND§◆	4.33	3.90	3.32	PS2833-4TR-ND◆	2,500	2223.00/M
18	2000	100 ~ 600%	70	20/110	SSOP	PS2841-4A-ND§◆	3.83	3.45	2.94	PS2841-4ATR-ND◆	2,500	1963.00/M
19	2000	100 ~ 600%	70	20/110	SSOP	PS2841-4B-ND§◆	3.75	3.38	2.88	PS2841-4BTR-ND◆	2,500	1911.00/M
20	2000	100 ~ 600%	70	20/110	SSOP	PS2845-4AA-ND§◆	4.78	4.30	3.67	—	—	—

§ Cut Tape * 10.16mm (0.4") wide row spacing; standard spacing is 7.62mm (0.3") ‡ VDE Approved ◆ ***RoHS Compliant***

Fig. 1

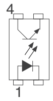

Photo Transistor Output Dip or SMT

Fig. 2

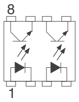

Dual Photo Transistor Output Dip or SMT

Fig. 3

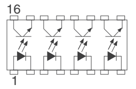

Quad Photo Transistor Output Dip or SMT

Fig. 4

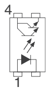

Photo Darlington Output Dip or SMT

Fig. 5

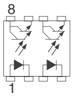

Dual Photo Darlington Output Dip or SMT

Fig. 6

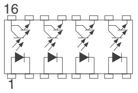

Quad Photo Darlington Output Dip or SMT

Fig. 7

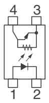

Photo Transistor Output Dip or SMT

Fig. 8

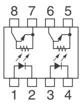

Photo Transistor Output Dip or SMT

Fig. 9

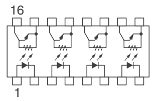

Photo Transistor Output Dip or SMT

Fig. 10

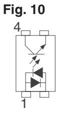

Photo Transistor Output Dip or SMT

Fig. 11

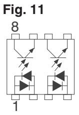

Dual Photo Transistor Output Dip or SMT

Fig. 12

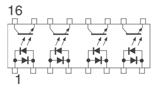

Quad Photo Transistor Output Dip or SMT

Fig. 13

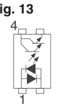

Photo Darlington Output Dip

Fig. 14

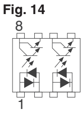

Dual Photo Darlington Output Dip

Fig. 15

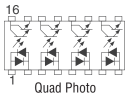

Quad Photo Darlington Output Dip

Fig. 16

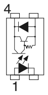

Photo Darlington Output Dip or SMT

Fig. 17

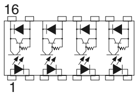

Quad Photo Darlington Output Dip or SMT

Fig. 18

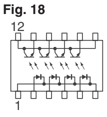

Photo Transistor Output SMT

Fig. 19

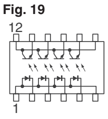

Photo Transistor Output SMT

Fig. 20

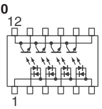

Photo Transistor Output SMT

Fig. 21

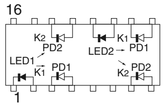

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

High Linearity Diode Output Optoisolator (Surface Mount)

Fig.	Isolation Voltage	Transfer Gain (K2/K1)	Transfer Gain Linearity Δ (K2/K1) (for Vcc=15V, If=2-10mA)	Digi-Key Part No.	Price Each 1	10	100
21	1500	.733-1.072	<1%	PS8741-A-ND	4.10	3.69	3.15

High Speed Analog Output Optoisolators

Fig.	Isolation Voltage	CTR	Vcc (Max.)	Typical Propagation Delay (µc)	Package	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
22	2500	15% ~ 35%	35	0.5 / 0.6	SOP	PS8101-ND	2.40	2.00	1.69	PS8101TR-ND	2,500	1170.00/M
	2500	20% ~ 35%	35	0.5 / 0.6	SOP	PS8101-K-A-ND	2.40	2.00	1.69	—	—	—
	2500	10% ~ 30%	15	1 / 2	SOP	PS8103-ND	1.95	1.63	1.38	PS8103TR-ND	2,500	960.00/M
23	5000	>15%	35	0.5 / 0.3	DIP	PS8601-A-ND	2.02	1.69	1.43	—	—	—
	5000	>15%	35	0.5 / 0.3	SMT	PS8601L-A-ND	2.07	1.73	1.46	—	—	—
24	5000	>15%	35	0.5 / 0.3	DIP	PS8602-A-ND	2.47	2.06	1.74	—	—	—
	2500	15% ~ 35%	35	0.3 / 0.6	SSOP	PS8802-1CT-ND§	1.98	1.65	1.40	PS8802-1TR-ND	1,500	990.00/M
	2500	20% ~ 40%	3.3	0.3/0.5	SSOP	PS8821-1-A-ND	2.31	1.93	1.63	—	—	—
25	2500	15% ~ 35%	35	0.3 / 0.6	SSOP	PS8802-2CT-ND§	3.08	2.77	2.36	PS8802-2TR-ND	1,500	1599.00/M
	2500	20% ~ 40%	3.3	0.3/0.5	SSOP	PS8821-2-A-ND	3.95	3.56	3.03	—	—	—

§ Cut Tape

High Speed Digital Photocouplers

Fig.	Output Type	Isolation Voltage	Prop. Delay tPHL	tPLH	Package	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing
26	OC	2500	250ns	520ns	SOP	PS9113-ND	3.58	3.22	2.75	PS9113TR-ND	2,500	1833.00/M
	OC	2500	54ns	51ns	SOP	PS9114CT-ND§	3.63	3.27	2.78	PS9114TR-ND	2,500	1885.00/M
	OC	2500	54ns	51ns	SOP	PS9114-ND	3.60	3.24	2.76	—	—	—
	OC	2500	35ns	40ns	SOP	PS9117-A-ND	3.60	3.24	2.76	—	—	—
	OC	2500	40ns	45ns	SMT	PS9121-ND	2.93	2.64	2.25	PS9121TR-ND	2,500	1482.00/M
27	TP	2500	33ns	40ns	SOP	PS9115-ND	3.60	3.24	2.76	PS9115TR-ND	2,500	1846.00/M
28	OC	5000	250ns	520ns	DIP	PS9613-A-ND	2.33	2.10	1.79	—	—	—
	OC	2500	54ns	51ns	SSOP	PS9814-2CT-ND§	3.23	2.91	2.48	PS9814-2TR-ND	1,500	1677.00/M
29	OC	3750	75ns	75ns	DIP	PS9614-A-ND	2.41	2.17	1.85	—	—	—
	OC	3750	61ns	51ns	SMT	PS9614L-ND	2.50	2.25	1.92	PS9614LTR-ND	1,000	1296.10
	OC	2500	40ns	45ns	SSOP	PS9817-1-ND	2.42	2.02	1.53	PS9817-1TR-ND	1,500	1023.10/M
30	OC	2500	54ns	51ns	SSOP	PS9814-1CT-ND§	1.97	1.78	1.51	—	—	—
	OC	2500	45ns	50ns	SSOP	PS9821-1-ND	2.15	1.94	1.65	PS9821-1TR-ND	1,500	990.00/M
31	OC	2500	40ns	45ns	SSOP	PS9817-2-ND	3.15	2.84	2.42	PS9817-2TR-ND	1,500	1638.00/M
	OC	2500	45ns	50ns	SSOP	PS9821-2-ND	3.45	3.11	2.65	PS9821-2TR-ND	1,500	2275.00/M
32	TP	5000	300ns	300ns	DIP	PS9552L2-AX-ND ***NEW!***	3.30	2.97	2.53	—	—	—
	TP	5000	300ns	300ns	DIP	PS9552L3-AX-ND ***NEW!***	3.30	2.97	2.53	—	—	—

§ Cut Tape

Fig. 22

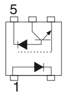

SMT

Fig. 23

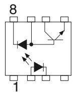

Dip or Lead-Bent

Fig. 24

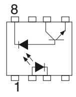

Dip or Lead-Bent

Fig. 25

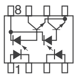

SOP

Fig. 26

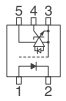

Open Collector Output

Fig. 27

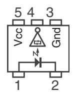

SMT

Fig. 28

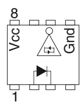

Dip

Fig. 29

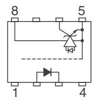

Open Collector Output

Fig. 30

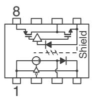

CMOS Output

Fig. 31

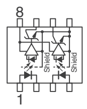

Open Collector Output

Fig. 32 ***NEW!***

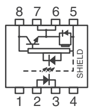

VISHAY Semiconductor Optocouplers

Phototransistor Output Optocouplers

Fig.	Isolation Voltage	CTR (Typical)	VCEO (Max.)	Package	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Vishay Part No.
1	5300	>20%	70	6-DIP	751-1259-5-ND	.69	.51	.40	—	—	—	4N38
	5300	40 ~ 80%	70	6-DIP	751-1265-5-ND	.74	.55	.44	—	—	—	CNY17-1
	5300	63 ~ 125%	70	6-DIP	751-1266-5-ND	.74	.55	.44	—	—	—	CNY17-2
	5300	100 ~ 200%	70	6-DIP	751-1267-5-ND	.74	.55	.44	—	—	—	CNY17-3
	5300	160 ~ 320%	70	6-DIP	751-1268-5-ND	.74	.55	.44	—	—	—	CNY17-4
	5300	>50%	70	6-DIP	751-1273-5-ND	.83	.65	.50	—	—	—	H11A1
	5300	>20%	70	6-DIP	751-1274-5-ND	.83	.65	.50	—	—	—	H11A2
	5300	>20%	70	6-DIP	751-1275-5-ND	.83	.65	.50	—	—	—	H11A3
	5300	>20%	300	6-DIP	751-1278-5-ND	1.73	1.50	1.15	—	—	—	H11D1
	5300	>20%	200	6-DIP	751-1279-5-ND	1.42	1.14	.95	—	—	—	H11D3
	5300	>20%	50	6-DIP	751-1280-5-ND	1.10	.86	.67	—	—	—	IL1
	5300	>100%	70	6-DIP	751-1281-5-ND	1.00	.87	.67	—	—	—	IL2
2	5300	50 ~ 80%	30	6-DIP	751-1337-5-ND	.69	.54	.42	—	—	—	MOC8101
	5300	73 ~ 117%	30	6-DIP	751-1338-5-ND	.69	.54	.42	—	—	—	MOC8102
	5300	108 ~ 173%	30	6-DIP	751-1339-5-ND	.69	.54	.42	—	—	—	MOC8103
	5300	160 ~ 256%	30	6-DIP	751-1340-5-ND	.69	.54	.42	—	—	—	MOC8104
	5300	40 ~ 80%	70	6-DIP	751-1269-5-ND	.74	.55	.44	—	—	—	CNY17F-1
	5300	63 ~ 125%	70	6-DIP	751-1270-5-ND	.74	.55	.44	—	—	—	CNY17F-2
	5300	100 ~ 200%	70	6-DIP	751-1271-5-ND	.74	.55	.44	—	—	—	CNY17F-3
	5300	160 ~ 320%	70	6-DIP	751-1272-5-ND	.74	.55	.44	—	—	—	CNY17F-4
3	5300	>20%	30	6-DIP	751-1276-5-ND	1.23	.99	.82	—	—	—	H11AA1
	5300	>100%	30	6-DIP	751-1290-5-ND	1.61	1.29	1.08	—	—	—	IL252
4	4000	40 ~ 80%	70	8-SOIC	751-1282-1-ND§	1.06	.83	.71	751-1282-2-ND	2,000	329.00/M	IL205AT
	4000	63 ~ 125%	70	8-SOIC	751-1283-1-ND§	1.06	.83	.71	751-1283-2-ND	2,000	329.00/M	IL206AT
	4000	100 ~ 200%	70	8-SOIC	751-1284-1-ND§	1.06	.83	.71	751-1284-2-ND	2,000	329.00/M	IL207AT
	4000	160 ~ 320%	70	8-SOIC	751-1285-1-ND§	1.06	.83	.71	751-1285-2-ND	2,000	329.00/M	IL208AT
	4000	>20%	70	8-SOIC	751-1286-1-ND§	1.06	.83	.71	751-1286-2-ND	2,000	329.00/M	IL211AT
	4000	>100%	70	8-SOIC	751-1287-1-ND§	1.06	.83	.71	751-1287-2-ND	2,000	329.00/M	IL213AT
	4000	>100%	30	8-SOIC	751-1288-1-ND§	1.10	.87	.75	751-1288-2-ND	2,000	345.60/M	IL217AT
5	4000	>20%	30	8-SOIC	751-1291-1-ND§	1.32	1.05	.90	751-1291-2-ND	2,000	414.45/M	IL256AT
6	5300	≥20%	30	8-DIP	751-1305-5-ND	.96	.84	.64	—	—	—	ILCT6
	5300	>20%	50	8-DIP	751-1306-5-ND	1.46	1.17	.97	—	—	—	ILD1
	5300	>100%	70	8-DIP	751-1307-5-ND	1.53	1.33	1.03	—	—	—	ILD2
	5300	>50%	70	8-DIP	751-1318-5-ND	1.93	1.51	1.27	—	—	—	ILD5
	5300	35%	20	8-DIP	751-1326-5-ND	1.73	1.38	1.15	—	—	—	ILD74
	5300	≥20%	30	8-DIP	751-1336-5-ND	1.26	1.02	.85	—	—	—	MCT6
7	4000	40 ~ 80%	70	8-SOIC	751-1308-1-ND§	1.45	1.15	.98	751-1308-2-ND	2,000	454.95/M	ILD205T
	4000	63 ~ 125%	70	8-SOIC	751-1309-1-ND§	1.45	1.15	.98	751-1309-2-ND	2,000	454.95/M	ILD206T
	4000	100 ~ 200%	70	8-SOIC	751-1310-1-ND§	1.45	1.15	.98	751-1310-2-ND	2,000	454.95/M	ILD207T
	4000	>20%	70	8-SOIC	751-1311-1-ND§	1.45	1.15	.98	751-1311-2-ND	2,000	454.95/M	ILD211T
	4000	>100%	70	8-SOIC	751-1312-1-ND§	1.45	1.15	.98	751-1312-2-ND	2,000	454.95/M	ILD213T
	4000	>100%	70	8-SOIC	751-1313-1-ND§	1.54	1.22	1.04	751-1313-2-ND	2,000	483.30/M	ILD217T
8	5300	>50%	30	8-DIP	751-1315-5-ND	3.10	2.43	2.04	—	—	—	ILD250
	5300	>100%	30	8-DIP	751-1316-5-ND	3.45	3.00	2.24	—	—	—	ILD252
9	5300	63 ~ 125%	70	8-DIP	751-1320-5-ND	1.73	1.38	1.15	—	—	—	ILD615-2
	5300	100 ~ 200%	70	8-DIP	751-1321-5-ND	1.72	1.38	1.15	—	—	—	ILD615-3
	5300	160 ~ 320%	70	8-DIP	751-1322-5-ND	1.76	1.41	1.18	—	—	—	ILD615-4

§ Cut Tape

Fig. 1

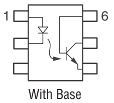

With Base Connection

Fig. 2

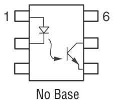

No Base Connection

Fig. 3

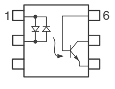

AC Input With Base Connection

Fig. 4

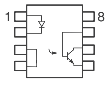

With Base Connection

Fig. 5

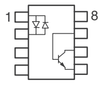

AC Input With Base Connection

Fig. 6

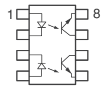

Fig. 7

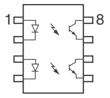

Fig. 8

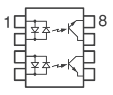

AC Input With Base Connection

Fig. 9

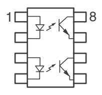

Fig. 10

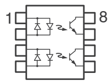

AC Input

Fig. 11

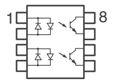

AC Input

Fig. 12

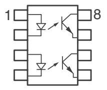

Fig. 13

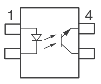

Fig. 14

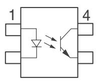

Fig. 15

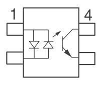

AC Input

Fig. 16

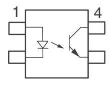

SOP

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Optocouplers

Phototransistor Output Optocouplers *(Cont.)*

Fig.	Isolation Voltage	CTR (Typical)	VCEO (Max.)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Vishay Part No.
						1	10	100		Qty.	Pricing	
10	4000	>20%	70	8-SOIC	751-1317-1-ND§	2.02	1.60	1.37	751-1317-2-ND	2,000	634.50/M	ILD256T
11	5300	>50%	70	8-DIP	751-1323-5-ND	2.12	1.66	1.40	—	—	—	ILD620
	5300	>100%	70	8-DIP	751-1324-5-ND	2.35	1.84	1.55	—	—	—	ILD620GB
12	5300	>100%	70	8-DIP	751-1325-5-ND	1.64	1.28	1.08	—	—	—	ILD621GB
13	5300	40 ~ 80%	70	4-DIP	751-1341-5-ND	1.10	.86	.67	—	—	—	SFH610A-1
	5300	63 ~ 125%	70	4-DIP	751-1342-5-ND	.96	.84	.64	—	—	—	SFH610A-2
	5300	100 ~ 200%	70	4-DIP	751-1343-5-ND	.96	.84	.64	—	—	—	SFH610A-3
	5300	160 ~ 320%	70	4-DIP	751-1344-5-ND	.96	.84	.64	—	—	—	SFH610A-4
14	5300	40 ~ 80%	70	4-SMD	751-1345-1-ND§	.87	.68	.59	751-1345-2-ND	1,000	300.70	SFH6156-1T
	5300	63 ~ 125%	70	4-SMD	751-1346-1-ND§	.87	.68	.59	751-1346-2-ND	1,000	300.70	SFH6156-2T
	5300	100 ~ 200%	70	4-SMD	751-1347-1-ND§	.87	.68	.59	751-1347-2-ND	1,000	300.70	SFH6156-3T
	5300	160 ~ 320%	70	4-SMD	751-1348-1-ND§	.87	.68	.59	751-1348-2-ND	1,000	300.70	SFH6156-4T
	5300	100 ~ 200%	55	4-SMD	751-1352-1-ND§	1.14	.91	.78	751-1352-2-ND	1,000	399.00	SFH6186-3T
	5300	63 ~ 125%	70	4-DIP	751-1349-5-ND	.78	.61	.47	—	—	—	SFH615A-2
	5300	100 ~ 200%	70	4-DIP	751-1350-5-ND	.78	.61	.47	—	—	—	SFH615A-3
	5300	160 ~ 320%	70	4-DIP	751-1351-5-ND	.78	.61	.47	—	—	—	SFH615A-4
	5300	63 ~ 125%	55	4-DIP	751-1353-5-ND	1.10	.86	.67	—	—	—	SFH618A-2
	5300	100 ~ 200%	55	4-DIP	751-1354-5-ND	1.10	.86	.67	—	—	—	SFH618A-3
	5300	160 ~ 320%	55	4-DIP	751-1355-5-ND	1.10	.86	.67	—	—	—	SFH618A-4
	5300	250 ~ 500%	55	4-DIP	751-1356-5-ND	1.10	.86	.67	—	—	—	SFH618A-5
15	5300	40 ~ 125%	70	4-DIP	751-1357-5-ND	.92	.72	.56	—	—	—	SFH620A-1
	5300	63 ~ 200%	70	4-DIP	751-1358-5-ND	.92	.72	.56	—	—	—	SFH620A-2
	5300	100 ~ 320%	70	4-DIP	751-1359-5-ND	.92	.72	.56	—	—	—	SFH620A-3
	5300	100 ~ 320%	55	4-SMD	751-1360-1-ND§	1.41	1.12	.95	751-1360-2-ND	1,000	474.15	SFH6286-3T
	5300	100 ~ 320%	55	4-DIP	751-1361-5-ND	1.15	1.00	.77	—	—	—	SFH628A-3
	5300	160 ~ 500%	55	4-DIP	751-1362-5-ND	1.15	1.00	.77	—	—	—	SFH628A-4
16	3750	50 ~ 300%	70	Mini-Flat	751-1367-1-ND§	.69	.54	.47	751-1367-2-ND	2,000	215.60/M	SFH690ABT
	3750	50 ~ 150%	70	Mini-Flat	751-1368-1-ND§	.78	.61	.53	751-1368-2-ND	2,000	243.60/M	SFH690AT
	3750	100 ~ 300%	70	Mini-Flat	751-1369-1-ND§	.78	.61	.53	751-1369-2-ND	2,000	243.60/M	SFH690BT
17	3750	50 ~ 300%	70	Mini-Flat	751-1370-5-ND	4.47	3.89	2.90	—	—	—	SFH6916
18	5300	>20%	50	16-DIP	751-1329-5-ND	2.45	1.92	1.61	—	—	—	ILQ1
	5300	>100%	70	16-DIP	751-1330-5-ND	2.55	1.99	1.68	—	—	—	ILQ2
19	5300	>50%	70	16-DIP	751-1331-5-ND	3.31	2.88	2.15	—	—	—	ILQ620
	5300	>100%	70	16-DIP	751-1332-5-ND	3.72	3.24	2.42	—	—	—	ILQ620GB
20	5300	>50%	70	16-DIP	751-1333-5-ND	3.10	2.43	2.04	—	—	—	ILQ621
	5300	>100%	70	16-DIP	751-1334-5-ND	2.76	2.40	1.79	—	—	—	ILQ621GB
21	5000	50 ~ 600%	70	16-DIP	751-1371-5-ND	1.64	1.28	1.08	—	—	—	TCET4100
	3750	50 ~ 600%	70	Mini-Flat	751-1375-1-ND	1.95	1.52	1.28	751-1375-2-ND	2,000	790.40/M	TCMT4100
22A	5000	>20%	70	16-DIP	751-1372-5-ND	2.17	1.70	1.43	—	—	—	TCET4600
	3750	80 ~ 300%	70	Mini-Flat	751-1376-1-ND§	2.78	2.12	1.83	751-1376-2-ND	2,000	860.60/M	TCMT4600
22B	3750	80 ~ 300%	70	Mini-Flat	751-1374-1-ND§	.75	.59	.50	751-1374-2-ND	3,000	232.40/M	TCMT1600
23	5000	80 ~ 160%	70	Mini-Flat	751-1373-1-ND§	.72	.56	.44	751-1373-2-ND	3,000	224.00/M	TCLT1107

§ Cut Tape

Photodarlington Output Optocouplers

Fig.	Isolation Voltage	CTR (Typical)	VCEO (Max.)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel Pricing 2,000	Vishay Part No.
						1	10	100			
24	5300	>500%	25	6-DIP	751-1277-5-ND	1.19	1.03	.80	—	—	H11B1
25	4000	>500%	30	8-SOIC	751-1289-1-ND§	1.19	.94	.81	751-1289-2-ND	372.60/M	IL223AT
26	4000	>500%	30	8-SOIC	751-1314-1-ND§	2.11	1.67	1.43	751-1314-2-ND	661.50/M	ILD223T
27	5300	>100%	55	8-DIP	751-1319-5-ND	2.42	1.89	1.59	—	—	ILD55
28	5300	>750%	60	8-DIP	751-1327-5-ND	2.76	2.40	1.79	—	—	ILD755-1
	5300	>1000%	60	8-DIP	751-1328-5-ND	4.30	3.75	2.79	—	—	ILD755-2
29	5300	≥500%	60	16-DIP	751-1335-5-ND	3.58	3.12	2.33	—	—	ILQ66-4

§ Cut Tape

Phototriac Output Optocouplers High dV/dt, Low Input Current

Fig.	Isolation Voltage	V_{DRM} (Minimum)	LED Trigger Current I_{FT} (Maximum)	Package	Digi-Key Part No.	Price Each			Vishay Part No.
						1	10	100	
30	5300	600	2mA, 5mA	6-DIP	751-1297-5-ND	3.17	2.76	2.06	IL410
	5300	800	2mA, 5mA	6-DIP	751-1298-5-ND	3.45	3.00	2.24	IL4108
	5300	600	10mA	6-DIP	751-1382-5-ND	1.38	1.20	.92	VO3062
	5300	600	5mA	6-DIP	751-1383-5-ND	1.46	1.17	.97	VO3063
31	5300	600	1.3mA	6-DIP	751-1299-5-ND	3.45	3.00	2.24	IL4116
	5300	800	1.3mA	6-DIP	751-1300-5-ND	4.36	3.80	2.83	IL4118
32	5300	600	2mA	6-DIP	751-1301-5-ND	3.17	2.76	2.06	IL420
	5300	800	2mA	6-DIP	751-1302-5-ND	3.45	3.00	2.24	IL4208
	5300	600	1.3mA	6-DIP	751-1303-5-ND	3.45	3.00	2.24	IL4216
	5300	800	1.3mA	6-DIP	751-1304-5-ND	4.36	3.80	2.83	IL4218

High Speed Optocouplers

Fig.	Isolation Voltage	Common Mode Trans. Immunity CM_H	Prop Delay		Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel Pricing 2,000	Vishay Part No.
			t_{PHL}	t_{PLH}			1	10	100			
33	5300	1000 V/µs	1.5µs	1.5µs	8-DIP	751-1260-5-ND	1.38	1.20	.92	—	—	6N135
	5300	1000 V/µs	0.8µs	0.8µs	8-DIP	751-1261-5-ND	1.42	1.14	.95	—	—	6N136
34	5300	100 V/µs	75ns	75ns	8-DIP	751-1262-5-ND	1.64	1.28	1.08	—	—	6N137
	5300	5 kV/µs	100ns	100ns	8-DIP	751-1379-5-ND	1.80	1.41	1.19	—	—	VO2601
	5300	10 kV/µs	100ns	100ns	8-DIP	751-1380-5-ND	1.96	1.54	1.29	—	—	VO2611
35	4000	5 kV/µs	100ns	100ns	8-SOIC	751-1377-1-ND§	3.43	2.62	2.25	751-1377-2-ND	1062.10/M	VO0601T
	4000	15 kV/µs	100ns	100ns	8-SOIC	751-1378-1-ND§	3.65	2.78	2.39	751-1378-2-ND	1128.40/M	VO0611T
36	5300	5 kV/µs	100ns	100ns	8-DIP	751-1381-5-ND	2.94	2.30	1.93	—	—	VO2631
37	4000	15 kV/µs	0.8µs	0.8µs	8-SOIC	751-1363-1-ND§	2.23	1.70	1.47	751-1363-2-ND	690.30/M	SFH6316T
38	4000	15 kV/µs	1.0µs	1.0µs	8-SOIC	751-1364-1-ND§	2.49	1.90	1.63	751-1364-2-ND	769.60/M	SFH6343T
	5300	15 kV/µs	0.8µs	0.8µs	8-DIP	751-1365-5-ND	1.80	1.41	1.19	—	—	SFH6345
39	4000	1000 V/µs	300ns	300ns	8-SOIC	751-1366-1-ND§	2.79	2.13	1.83	751-1366-2-ND	863.20/M	SFH6720T
40	5300	500 V/µs	10µs	35µs	8-DIP	751-1263-5-ND	1.53	1.33	1.03	—	—	6N138
	5300	500 V/µs	25µs	60µs	8-DIP	751-1264-5-ND	1.68	1.35	1.13	—	—	6N139

§ Cut Tape

Linear Optocouplers

Fig.	Isolation Voltage	Transfer Gain (K2/K1)	Transfer Gain Linearity Δ (K2/K1) (If=1.0-10mA)	Package	Digi-Key Part No.	Price Each			Vishay Part No.
						1	10	100	
41	5300	0.557 ~ 1.618	±0.25%	8-DIP	751-1292-5-ND	4.27	3.72	2.77	IL300
	5300	0.765 ~ 1.181	±0.25%	8-DIP	751-1293-5-ND	4.41	3.84	2.86	IL300-DEFG
	5300	0.851 ~ 0.955	±0.25%	8-DIP	751-1294-5-ND	10.41	9.11	7.20	IL300-E
	5300	0.851 ~ 1.061	±0.25%	8-DIP	751-1295-5-ND	6.07	5.32	4.21	IL300-EF
	5300	0.945 ~ 1.061	±0.25%	8-DIP	751-1296-5-ND	10.41	9.11	7.20	IL300-F

Fig. 17

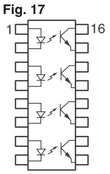

SOP

Fig. 18

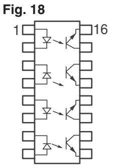

Fig. 19

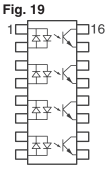

AC Input

Fig. 20

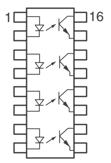

Fig. 21

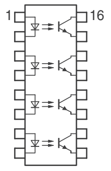

DIP or SOP

Fig. 22

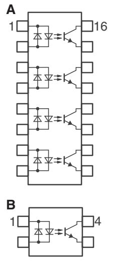

AC Input, DIP or SOP

Fig. 23

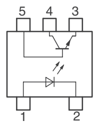

SOP Long

Fig. 24

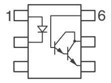

High Gain, With Base Connection

Fig. 25

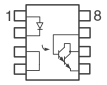

Low Input Current, With Base Connection

Fig. 26

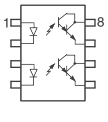

Fig. 27

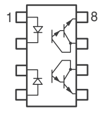

Fig. 28

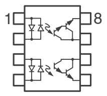

AC Input

Fig. 29

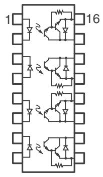

Internal RBE for High Stability

Fig. 30

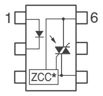

Zero Crossing Circuit

Fig. 31

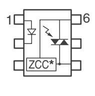

Zero Crossing Circuit

Fig. 32

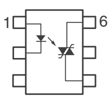

Fig. 33

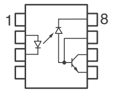

Open-Collector Output

Fig. 34

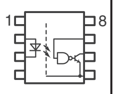

NMOS Transistor Output

Fig. 35

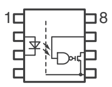

NMOS Transistor Output

Fig. 36

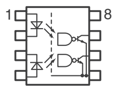

NMOS Transistor Output

Fig. 37

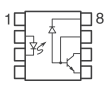

Transistor Output

Fig. 38

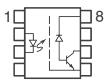

Open-Collector Output

Fig. 39

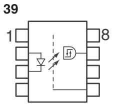

Fig. 40

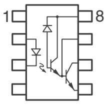

Photodiode Darlington Output

Fig. 41

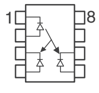

Wide Bandwidth

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Optoisolators

OPI1264 Series: Optically coupled isolators, each consisting of an infrared emitting diode coupled to an NPN silicon phototransistor and sealed in a precast opaque housing.

OPI155 Series: Contains a high speed monolithic photo-IC comprised of a photo-diode and DC amplifier driving an open collector output Schottky transistor.

Fig. 1

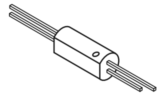

Fig. 2

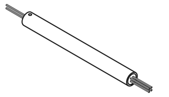

Fig.	Isolation Voltage	Forward DC Current (mA)	Reverse DC Voltage	DC Current Transfer Ratio	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
1	±10k	40	2.0	25%	365-1031-ND	3.08	1.80	1.73	OPI1264A
	±10k	40	2.0	50%	365-1032-ND	3.08	1.80	1.73	OPI1264B
	±10k	40	2.0	100%	365-1033-ND	3.14	1.83	1.76	OPI1264C
2	±50k	50	3.0	25mA	365-1034-ND	73.43	42.72	41.08	OPI155

Optoisolators

Fig. 1

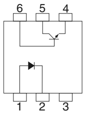

Fig. 2

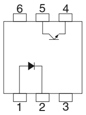

Fig. 3

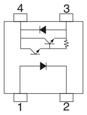

Fig. 4

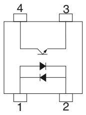

Fig. 5

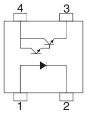

Fig. 6

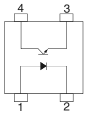

Fig. 7

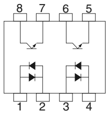

Fig. 8

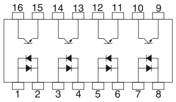

Fig. 9

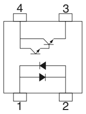

Fig. 10

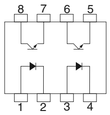

Fig. 11

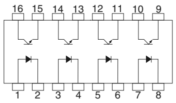

Fig. 12

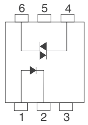

Fig. 13

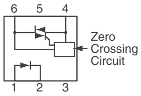

Fig.	Isolation Volt.	Current Transfer Ratio Min.	Max.	VCEO (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Pricing 1	10	100	Lite-On Part No.
1	2500	20%	–	30	3.0/3.0	DIP	160-1300-5-ND◆	.32	2.43	18.23	4N25
	2500	20%	–	30	3.0/3.0	SMT	160-1301-5-ND◆	.34	2.55	19.13	4N25S
	1500	20%	–	30	3.0/3.0	DIP	160-1302-5-ND◆	.33	2.46	18.45	4N26
	1500	20%	–	30	3.0/3.0	SMT	160-1303-5-ND◆	.34	2.55	19.13	4N26S
	3550	100%	–	30	3.0/3.0	DIP	160-1304-5-ND◆	.32	2.43	18.23	4N35
	3550	100%	–	30	3.0/3.0	SMT	160-1305-5-ND◆	.32	2.43	18.23	4N35S
	1500	100%	–	30	3.0/3.0	DIP	160-1306-5-ND◆	.32	2.43	18.23	4N37
	1500	100%	–	30	3.0/3.0	SMT	160-1307-5-ND◆	.34	2.55	19.13	4N37S
	5000	40%	80%	70	5.0/5.0	DIP	160-1308-5-ND◆	.32	2.43	18.23	CNY17-1
	5000	40%	80%	70	5.0/5.0	SMT	160-1309-5-ND◆	.34	2.55	19.13	CNY17-1S
	5000	63%	125%	70	5.0/5.0	DIP	160-1310-5-ND◆	.44	3.30	24.75	CNY17-2
	5000	63%	125%	70	5.0/5.0	SMT	160-1311-5-ND◆	.50	3.75	28.13	CNY17-2S
	5000	100%	200%	70	5.0/5.0	DIP	160-1312-5-ND◆	.32	2.43	18.23	CNY17-3
	5000	100%	200%	70	5.0/5.0	SMT	160-1313-5-ND◆	.34	2.55	19.13	CNY17-3S
	5000	160%	320%	70	5.0/5.0	DIP	160-1314-5-ND◆	.32	2.43	18.23	CNY17-4
	5000	160%	320%	70	5.0/5.0	SMT	160-1315-5-ND◆	.34	2.55	19.13	CNY17-4S
2	5000	40%	80%	70	5.0/5.0	DIP	160-1316-5-ND◆	.32	2.43	18.23	CNY17F-1
	5000	40%	80%	70	5.0/5.0	SMT	160-1317-5-ND◆	.34	2.55	19.13	CNY17F-1S
	5000	63%	125%	70	5.0/5.0	DIP	160-1318-5-ND◆	.32	2.43	18.23	CNY17F-2
	5000	63%	125%	70	5.0/5.0	SMT	160-1319-5-ND◆	.34	2.55	19.13	CNY17F-2S
	5000	100%	200%	70	5.0/5.0	DIP	160-1320-5-ND◆	.33	2.46	18.45	CNY17F-3
	5000	100%	200%	70	5.0/5.0	SMT	160-1321-5-ND◆	.34	2.55	19.13	CNY17F-3S
	5000	160%	320%	70	5.0/5.0	DIP	160-1322-5-ND◆	.32	2.43	18.23	CNY17F-4
	5000	160%	320%	70	5.0/5.0	SMT	160-1323-5-ND◆	.34	2.55	19.13	CNY17F-4S
1	5000	20%	–	30	2.8/4.5	SMT	160-1327-5-ND	.34	2.55	19.13	H11A2S
	5000	20%	–	300	5.0/5.0	DIP	160-1328-5-ND◆	.76	5.70	42.75	H11D1
	5000	20%	–	300	5.0/5.0	SMT	160-1329-5-ND◆	.78	5.82	43.65	H11D1S
3	3750	1000%	–	300	100/20	SMT	160-1331-1-ND◆†	.51	4.28	34.20	LTV-352T
	3750	1000%	–	300	100/20	SMT	160-1331-2-ND◆‡		192.38/750		LTV-352T
4	3750	20%	400%	35	4.0/3.0	SMT	160-1333-1-ND◆†	.30	2.50	20.00	LTV-354T
	3750	20%	400%	35	4.0/3.0	SMT	160-1333-2-ND◆‡		112.50/750		LTV-354T
5	3750	600%	7500%	35	60/53	SMT	160-1335-1-ND◆†	.23	1.88	15.00	LTV-355T
	3750	600%	7500%	35	60/53	SMT	160-1335-2-ND◆‡		96.75/750		LTV-335T
6	3750	50%	600%	80	4.0/3.0	SMT	160-1337-1-ND◆†	.23	1.88	15.00	LTV-356T
	3750	50%	600%	80	4.0/3.0	SMT	160-1337-2-ND◆‡		84.38/750		LTV-356T
	3750	50%	600%	35	4.0/3.0	SMT	160-1339-1-ND◆†	.23	1.88	15.00	LTV-357T
	3750	50%	600%	35	4.0/3.0	SMT	160-1339-2-ND◆‡		84.38/750		LTV-357T
2	5000	40%	320%	70	2.0/2.0	DIP	160-1340-5-ND	.32	2.43	18.23	LTV-702F
	5000	40%	320%	70	2.0/2.0	SMT	160-1341-5-ND◆	.34	2.55	19.13	LTV-702FS
1	5000	40%	320%	70	2.0/2.0	DIP	160-1342-5-ND	.32	2.43	18.23	LTV-702V
4	5000	20%	300%	35	4.0/3.0	DIP	160-1344-5-ND◆	.35	2.64	19.80	LTV-814
	5000	20%	300%	35	4.0/3.0	SMT	160-1345-5-ND◆	.36	2.73	20.48	LTV-814S
7	5000	20%	300%	35	4.0/3.0	DIP	160-1346-5-ND◆	.70	5.25	39.38	LTV-824

Fig.	Isolation Volt.	Current Transfer Ratio Min.	Max.	VCEO (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Pricing 1	10	100	Lite-On Part No.
7	5000	20%	300%	35	4.0/3.0	SMT	160-1347-5-ND◆	.72	5.37	40.28	LTV-824S
8	5000	20%	300%	35	4.0/3.0	DIP	160-1348-5-ND◆	1.40	10.50	78.75	LTV-844
	5000	20%	300%	35	4.0/3.0	SMT	160-1349-5-ND◆	1.42	10.62	79.65	LTV-844S
4	5000	20%	80%	35	4.0/3.0	DIP	160-1350-5-ND◆	.40	3.00	22.50	LTV-814H
	5000	20%	80%	35	4.0/3.0	SMT	160-1351-5-ND◆	.42	3.12	23.40	LTV-814HS
7	5000	20%	80%	35	4.0/3.0	DIP	160-1352-5-ND◆	.80	6.00	45.00	LTV-824H
9	5000	600%	7500%	35	60/53	DIP	160-1356-5-ND◆	.63	4.74	35.55	LTV-8141
	5000	600%	7500%	35	60/53	SMT	160-1357-5-ND◆	.64	4.83	36.23	LTV-8141S
5	5000	600%	7500%	35	60/53	DIP	160-1358-5-ND◆	.32	2.37	17.78	LTV-815
	5000	600%	7500%	35	60/53	SMT	160-1359-5-ND◆	.33	2.49	18.68	LTV-815S
6	5000	50%	600%	80	4.0/3.0	DIP	160-1360-5-ND◆	.25	1.89	14.18	LTV-816
	5000	50%	600%	80	4.0/3.0	SMT	160-1361-5-ND◆	.26	1.98	14.85	LTV-816S
10	5000	50%	600%	80	4.0/3.0	DIP	160-1362-5-ND◆	.50	3.75	28.13	LTV-826
	5000	50%	600%	80	4.0/3.0	SMT	160-1363-5-ND◆	.52	3.87	29.03	LTV-826S
11	5000	50%	600%	80	4.0/3.0	DIP	160-1364-5-ND◆	1.00	7.50	56.25	LTV-846
	5000	50%	600%	80	4.0/3.0	SMT	160-1365-5-ND◆	1.02	7.62	57.15	LTV-846S
6	5000	50%	600%	35	4.0/3.0	DIP	160-1366-5-ND◆	.25	1.89	14.18	LTV-817
	5000	50%	600%	35	4.0/3.0	SMT	160-1367-5-ND◆	.26	1.98	14.85	LTV-817S
10	5000	50%	600%	35	4.0/3.0	DIP	160-1368-5-ND◆	.50	3.75	28.13	LTV-827
	5000	50%	600%	35	4.0/3.0	SMT	160-1369-5-ND◆	.52	3.87	29.03	LTV-827S
11	5000	50%	600%	35	4.0/3.0	DIP	160-1370-5-ND◆	1.00	7.50	56.25	LTV-847
	5000	50%	600%	35	4.0/3.0	SMT	160-1371-5-ND◆	1.02	7.62	57.15	LTV-847S

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Triac Output Optoisolators

Fig.	Max. IF Isolation Voltage	Min. Trigger (mA)	Max. Blocking Voltage	IR (µA)	Package Type	Digi-Key Part No.	Price Each 1	10	100	Lite-On Part No.
12	5000	30	400V	10	DIP	160-1372-5-ND	.63	.48	.36	MOC3020
	5000	30	400V	10	SMT	160-1373-5-ND	.64	.49	.37	MOC3020S
	5000	15	400V	10	DIP	160-1374-5-ND	.63	.48	.36	MOC3021
	5000	15	400V	10	SMT	160-1375-5-ND	.64	.49	.37	MOC3021S
	5000	10	400V	10	DIP	160-1376-5-ND	.63	.48	.36	MOC3022
	5000	10	400V	10	SMT	160-1377-5-ND	.64	.49	.37	MOC3022S
	5000	5	400V	10	DIP	160-1378-5-ND	.63	.48	.36	MOC3023
	5000	5	400V	10	SMT	160-1379-5-ND	.64	.49	.37	MOC3023S
13	5000	5	600V	10	DIP	160-1722-5-ND	.50	.42	.33	MOC3063
	5000	5	600V	10	SMT	160-1723-1-ND†	.53	.44	.36	MOC3063S-TA1
	5000	5	600V	10	SMT	160-1723-2-ND‡		264.00/1,000		MOC3063S-TA1

† Cut Tape ‡ Tape and Reel

Optolinks

Specifications: • Isolation Voltage: 5000 • VCEO (Max.): 60V • Typical tr/tf: 5 µs/4 µs

Fig. 1

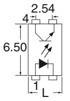

Photo Transistor Output DIP or SMT

Fig. 2

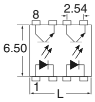

Dual Photo Transistor Output DIP or SMT

Fig. 3

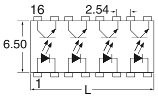

Quad Photo Transistor Output DIP or SMT

Fig. 4

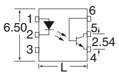

Photo Transistor Output DIP or SMT

Fig. 5

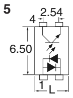

Photo Transistor Output DIP or SMT

Fig. 6

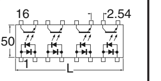

Quad Photo Transistor Output DIP or SMT

Fig. 7

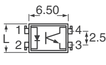

Single-Channel Photo Transistor Output DIP

Fig. 8

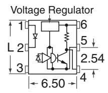

Photo IC Output DIP or SMT

Optoisolators with Photo-Transistor Output

Fig.	Current Transfer Ratio Min. - Max.	Length L (mm)	Pkg.	Digi-Key Part No.	Price Each 1	10	Tape and Reel Pricing‡	Lumex Part No.
1	60 - 600%	4.60	DIP	67-1560-5-ND◆	.51	.43	—	OCP-PCT114/E
	60 - 600%	4.60	SMT	67-1613-1-ND◆†	.51	.43	564.40/2,000	OCP-PCT114/E-TR
2	60 - 600%	9.68	DIP	67-1561-5-ND	1.05	.88	—	OCP-PCT218/E
	60 - 600%	9.68	SMT	67-1614-1-ND†	1.05	.88	581.00/1,000	OCP-PCT218/E-TR
3	60 - 600%	19.84	DIP	67-1562-5-ND◆	1.83	1.53	—	OCP-PCT4116/E
	60 - 600%	19.84	SMT	67-1618-5-ND◆	1.83	1.53	—	OCP-PCT4116/E-TR
4	60 - 600%	7.30	DIP	67-1563-5-ND◆	.39	.33	—	OCP-PCTB116/E
	60 - 600%	7.30	SMT	67-1615-1-ND◆†	.39	.33	215.80/1,000	OCP-PCTB116/E-TR
5	60 - 600%	4.60	DIP	67-1564-5-ND◆	.63	.53	—	OCP-PCT124/A
	60 - 600%	4.60	SMT	67-1616-1-ND◆†	.63	.53	697.20/2,000	OCP-PCT124/A-TR
6	60 - 600%	19.84	DIP	67-1565-5-ND◆	2.89	2.41	—	OCP-PCT4216/A
	60 - 600%	19.84	SMT	67-1619-5-ND	2.89	2.41	—	OCP-PCT4216/A-TR
7	200 - 400%	4.60	DIP	67-2044-5-ND	.26	.22	—	OCP-PCT114/C

Optoisolators with Photo-IC Output

Fig.	Isolation Voltage	Prop Delay t_{PHL}/t_{PLH} (µS)	Length L (mm)	Pkg.	Digi-Key Part No.	Price Each 1	10	Tape and Reel Pricing 1,000‡	Lumex Part No.
8	5000	5/3	7.3	DIP	67-1566-5-ND◆	1.64	1.37	—	OCP-PCP116
	5000	5/3	7.3	SMT	67-1617-1-ND†	1.64	1.37	904.70	OCP-PCP116-TR

◆ ***RoHS Compliant*** † Cut Tape ‡ For Tape and Reel part number, change 1-ND to 2-ND.

Optoisolators

Fig. 1

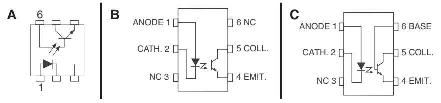

Fig. 2

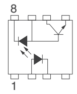

Fig. 3

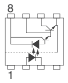

Fig. 4

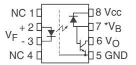

* Base not connected for HCPL0453

Fig. 5

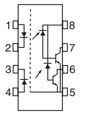

Fig. 6

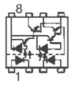

Fig. 7

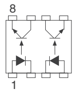

Fig. 8

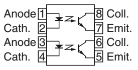

Fig. 9

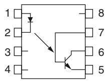

Fig. 10

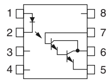

Fig. 11

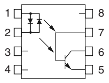

Fig. 12

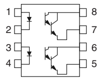

Fig. 13

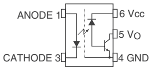

Fig. 14

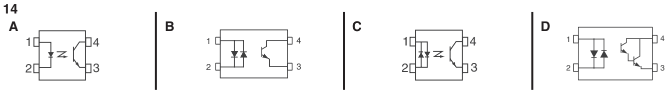

Fig. 15

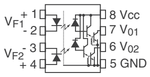

Fig. 16

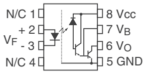

Fig. 17

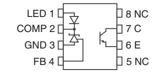

Fig. 18

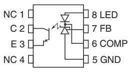

Fig. 19

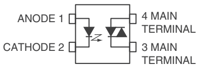

Fig. 20

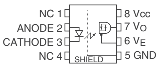

Fig. 21

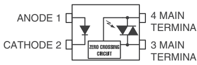

Fig. 22 – *NEW!*

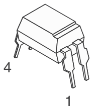

Fig. 23 – *NEW!*

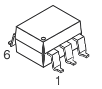

Fig. 24 – Thru Hole *NEW!*

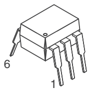

Fig. 25 – 0.4" Lead Spacing *NEW!*

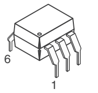

Fig. 26

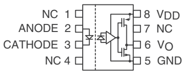

Fig. 27

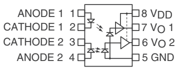

Fig. 28

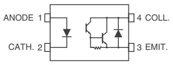

Fig. 29

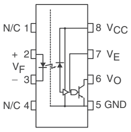

Fig. 30

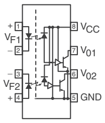

Fig. 31

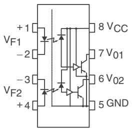

Fig. 32

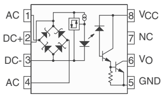

Fig. 33

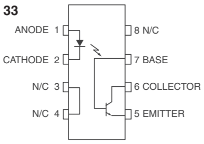

Fig. 34

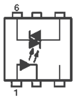

Fig. 35

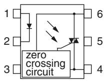

Fig. 36

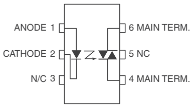

Fig. 37

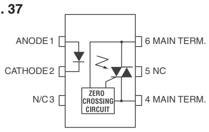

Fig. 38

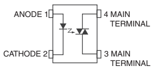

Fig. 39

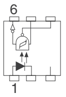

Fig. 40

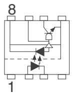

Fig. 41

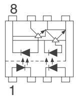

Fig. 42

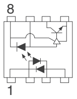

Fig. 43

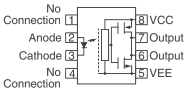

Photo Transistor Output Optoisolators

Fig.	Isolation Volt.	Current Transfer Ratio - Typ. (%) (Min.	Typ.	Max.)	VCEO (Max.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
1A	5300	20	70	—	30	DIP	4N25MFS-ND◆	.52	.42	.32
	5300	20	70	—	30	SMD	4N25SM-ND◆	.52	.42	.32
	5300	20	70	—	30	DIP	4N26MFS-ND◆	.52	.42	.32
	5300	10	50	—	30	DIP	4N27MFS-ND◆	.52	.42	.32
	5300	100	300	—	30	SMD	4N35MFS-ND◆	.50	.40	.30
	5300	100	300	—	30	SMD	4N35SM-ND◆	.52	.42	.32
	5300	100	300	—	30	DIP	4N36M-ND◆	.52	.42	.32
	5300	100	300	—	30	DIP	4N37MFS-ND◆	.52	.42	.32
	5300	40	60	80	70	DIP	CNY171MFS-ND	.52	.42	.32
	5300	63	100	125	70	DIP	CNY172M-ND◆	.52	.42	.32
	5300	100	150	200	70	DIP	CNY173M-ND◆	.52	.42	.32
	5300	50	120	—	30	SMD	H11A1SM-ND◆	.52	.42	.32
	5300	100	—	300	70	DIP	H11AV1AM-ND◆▲	.66	.50	.37
	5300	100	—	300	70	DIP	H11AV1M-ND	.66	.50	.37
	5300	50	100	—	30	DIP	MOC8100M-ND	.52	.42	.32
	7500	100	—	—	30	SMD	4N35SR2MCT-ND‡◆	.48	.37	.28
	7500	100	—	—	30	SMD	4N35SR2MTR-ND◊◆	161.00/1,000		
1B	5300	160	—	320	70	DIP	CNY174MFS-ND◆	.51	.41	.31
1C	5300	40	—	80	70	DIP	CNY17F1MFS-ND◆	.60	.48	.36
	5300	63	—	125	70	SMD	CNY17F2MFS-ND◆	.55	.44	.33
	5300	100	—	200	70	DIP	CNY17F3MFS-ND◆	.55	.44	.33
	5300	160	—	320	70	SMD	CNY17F4MFS-ND◆	.55	.44	.33
	5300	40	—	80	70	DIP	CNY17F1TVM-ND◆	.55	.44	.33
	5300	50	—	150	70	SMD	MOC8106SM-ND◆	.51	.39	.29
2	2500	7	18	50	15	DIP	6N135QT-ND◆	1.03	.78	.59
	2500	19	27	50	15	DIP	6N136QT-ND◆	.75	.63	.50
	2500	12	27	—	15	DIP	HCPL2503QT-ND◆	.90	.75	.60
3	2500	300	1300	—	7	DIP	6N138QT-ND◆	.80	.67	.54
	2500	400	1100	—	18	DIP	6N139QT-ND◆	.79	.66	.53
4	2500	15	—	50	—	SOIC	FOD050LR1CT-ND‡◆	1.40	1.12	.84
	2500	15	—	50	—	SOIC	FOD050LR1TR-ND◊◆	378.00/500		
	5000	15	—	50	—	SMD	FOD250LSDCT-ND‡◆	1.40	1.12	.84
	2500	19	27	50	—	SOIC	HCPL0453R1CT-ND‡◆	1.68	1.34	1.01
	2500	19	27	50	—	SOIC	HCPL0453R1TR-ND◊◆	452.25/500		
	2500	19	27	50	—	SMD	HCPL0501-ND◆	1.28	1.02	.77
	2500	7	2.7	50	—	SOIC	HCPL0530R1CT-ND‡◆	2.84	2.27	1.77
	2500	7	2.7	50	—	SOIC	HCPL0530R1TR-ND◊◆	819.00/500		
	2500	19	27	50	—	SOIC	HCPL0531R1CT-ND‡◆	3.17	2.54	1.98
	2500	19	27	50	—	SOIC	HCPL0531R1TR-ND◊◆	916.50/500		
	2500	15	30	—	—	SOIC	HCPL0534R1CT-ND‡◆	3.49	2.79	2.17
	2500	15	30	—	—	SOIC	HCPL0534R1TR-ND◊◆	2015.00/1,000		
	5000	19	27	50	—	DIP	HCPL4503M-ND◆	1.26	1.05	.84
	5000	19	27	50	—	SMD	HCPL4503SDMCT-ND‡◆	1.63	1.30	.98
	5000	19	27	50	—	SMD	HCPL4503SDMTR-ND◊◆	845.00/1,000		
	5000	19	27	50	—	SMD	HCPL4503SM-ND◆	1.63	1.30	.98
	5000	19	27	50	—	DIP	HCPL4503TM-ND◆	1.63	1.30	.98
5	2500	15	—	50	—	SOIC	FOD053LR1CT-ND‡◆	2.61	2.09	1.63
	2500	15	—	50	—	SOIC	FOD053LR1TR-ND◊◆	754.00/500		
	2500	16	18	—	—	DIP	HCPL2530-ND◆	1.63	1.30	.98
	2500	19	27	—	—	DIP	HCPL2531-ND◆	1.63	1.30	.98
6	2500	300	—	—	7	DIP	HCPL2730QT-ND◆	1.63	1.30	.98
	2500	400	—	—	18	DIP	HCPL2731QT-ND◆	1.40	1.12	.84

† VDE approval ▲ .4" Lead Spacing ‡ Cut Tape ◊ Tape and Reel ◆ ***RoHS Compliant*** *(Continued)*

FAIRCHILD
SEMICONDUCTOR®

Optoisolators

Photo Transistor Output Optoisolators *(Cont.)*

Fig.	Iso-lation Volt.	Current Transfer Ratio - Typ. (%)			VCEO	Pkg.	Digi-Key	Price Each		
		(Min.	Typ.	Max.)	(Max.)	Type	Part No.	1	10	100
7	2500	20	—	—	30	DIP	MCT6-ND◆	.75	.57	.43
	2500	50	—	—	30	DIP	MCT61-ND◆	.75	.57	.43
	2500	100	—	—	30	DIP	MCT62-ND◆	.80	.60	.45
	2500	10	—	—	30	SMD	MCT62S-ND◆	.80	.60	.45
8	2500	50	—	600	55	DIP	MCT9001-ND◆	.80	.60	.45
	2500	100	150	200	70	SMD	MOCD207M-ND◆	.76	.63	.51
	2500	40	—	125	70	SMD	MOCD208M-ND◆	.79	.66	.53
	2500	20	65	—	30	SMD	MOCD211M-ND◆	.79	.66	.53
	2500	100	—	—	70	SMD	MOCD213M-ND◆	.79	.66	.53
	2500	100	—	—	70	SOIC	MOCD213R2MCT-ND‡◆	.79	.66	.53
	2500	100	—	—	70	SOIC	MOCD213R2MTR-ND◊◆		852.50/2,500	
	2500	100	130	—	30	SMD	MOCD217M-ND◆	.79	.66	.53
	2500	100	—	—	30	SOIC	MOCD217R2MCT-ND‡◆	.77	.64	.51
	2500	100	—	—	30	SOIC	MOCD217R2MTR-ND◊◆		830.00/2,500	
9	3000	40	60	80	70	SMD	MOC205M-ND	.53	.40	.30
	3000	63	94	125	70	SMD	MOC206M-ND◆	.53	.40	.30
	3000	100	150	200	70	SMD	MOC207M-ND◆	.57	.43	.32
	3000	40	80	125	70	SMD	MOC208M-ND	.53	.40	.30
	3000	20	65	—	30	SMD	MOC211M-ND◆	.53	.40	.30
	3000	50	90	—	30	SMD	MOC212M-ND◆	.53	.40	.30
	3000	100	140	—	30	SMD	MOC213M-ND◆	.53	.40	.30
	3000	20	—	—	30	SMD	MOC215M-ND	.53	.40	.30
	3000	100	—	—	30	SMD	MOC217M-ND◆	.53	.40	.30
10	3000	500	1000	—	30	SOIC	MOC223M-ND◆	.67	.51	.38
11	3000	20	150	—	30	SOIC	MOC256M-ND◆	.82	.62	.46
12	2500	500	1000	—	30	SMD	MOCD223M-ND◆	.81	.68	.54
13	3750	20	—	50	—	MFP	FODM452R1VCT-ND‡◆	1.43	1.14	.86
	3750	20	—	50	—	MFP	FODM452R1VTR-ND◊◆		384.75/500	
	3750	20	—	50	—	MFP	FODM453R1VCT-ND‡◆	1.48	1.18	.89
	3750	20	—	50	—	MFP	FODM453R1VTR-ND◊◆		398.25/500	
14A	2500	80	—	600	80	MFP	HMHA2801-ND◆	.52	.42	.32
	2500	80	—	600	80	MFP	HMHA2801R1CT-ND‡◆	.58	.46	.35
	2500	80	—	600	80	MFP	HMHA2801R1TR-ND◊◆		161.00/1,000	
	2500	80	—	600	80	MFP	HMHA2801R2CT-ND‡◆	.48	.37	.28
	2500	80	—	600	80	MFP	HMHA2801R2TR-ND◊◆		392.50/2,500	
	2500	100	—	—	75	BGA	FODB100VCT-ND‡◆	1.55	1.24	.93
	3750	50	—	600	80	MFP	FODM121R2CT-ND‡◆	.50	.38	.29
	3750	50	—	600	80	MFP	FODM121R2TR-ND◊◆		406.25/2,500	
	3750	100	—	1200	80	MFP	FODM124R2CT-ND‡◆	.58	.46	.35
	3750	100	—	1200	80	MFP	FODM124R2TR-ND◊◆		388.13/2,500	
	3750	50	—	300	40	MFP	FODM2701R2CT-ND‡◆	.48	.37	.28
	3750	50	—	300	40	MFP	FODM2701R2TR-ND◊◆		393.25/2,500	
	3750	100	—	1200	80	MFP	HMA124-ND◆	.52	.39	.30
	3750	100	—	1200	80	MFP	HMA124R1CT-ND‡◆	.52	.39	.30
	3750	100	—	1200	80	MFP	HMA124R1TR-ND◊◆		173.00/1,000	
14C	3750	50	—	300	40	MFP	FODM2705R2CT-ND‡◆	.51	.39	.29
	3750	50	—	300	40	MFP	FODM2705R2TR-ND◊◆		416.00/2,500	
	3750	50	—	300	40	MFP	HMAA2705R2CT-ND‡◆	.58	.46	.35
	3750	50	—	300	40	MFP	HMAA2705R2TR-ND◊◆		387.50/2,500	
15	2500	300	—	5000	—	SOIC	HCPL0730R1CT-ND‡◆	2.84	2.27	1.77
	2500	300	—	5000	—	SOIC	HCPL0730R1TR-ND◊◆		819.00/500	
	2500	500	—	5000	—	SOIC	HCPL0731R1CT-ND‡◆	3.17	2.54	1.98
	2500	500	—	5000	—	SOIC	HCPL0731R1TR-ND◊◆		916.50/500	
16	2500	400	1100	—	—	SMD	6N139SDCT-ND‡◆	.87	.73	.58
	2500	400	1100	—	—	SMD	6N139SDTR-ND◊◆		386.00/1,000	
	2500	400	—	7000	—	SOIC	FOD073LR1CT-ND‡◆	3.24	2.60	2.02
	2500	400	—	7000	—	SOIC	FOD073LR1TR-ND◊◆		936.00/500	
17	5000	50	—	100	70	SMD	FOD2743ASDVCT-ND‡◆	1.20	1.00	.80
	5000	50	—	100	70	SMD	FOD2743ASDVTR-ND◊◆		532.00/1,000	
	5000	50	—	100	70	SMD	FOD2743BSDVCT-ND‡◆	.87	.73	.58
	5000	50	—	100	70	SMD	FOD2743BSDVTR-ND◊◆		385.70/1,000	
	5000	50	—	100	70	SMD	FOD2743CSDVCT-ND‡◆	.84	.70	.56
	5000	50	—	100	70	SMD	FOD2743CSDVTR-ND◊◆		372.40/1,000	
18	5000	100	—	200	30	DIP	FOD2711TV-ND†◆	.80	.60	.45
	2500	100	—	200	30	SOIC	FOD2712R1VCT-ND†‡◆	.96	.80	.64
	2500	100	—	200	30	SOIC	FOD2712R1VTR-ND†◊◆		224.00/500	
	5000	100	—	200	30	SMD	FOD2741ASDVCT-ND†‡◆	1.20	1.00	.80
	5000	100	—	200	30	SMD	FOD2741ASDVTR-ND†◊◆		532.00/1,000	
	5000	100	—	200	30	SMD	FOD2741BSDVCT-ND†‡◆	.87	.73	.58
	5000	100	—	200	30	SMD	FOD2741BSDVTR-ND†◊◆		385.70/1,000	
	5000	100	—	200	30	SMD	FOD2741CSDVCT-ND†‡◆	.84	.70	.56
	2500	100	140	200	70	SOIC	FOD2742AR1VCT-ND†‡◆	1.05	.88	.70
	2500	100	140	200	70	SOIC	FOD2742AR1VTR-ND†◊◆		465.50/1,000	
	2500	100	140	200	70	SOIC	FOD2742BR1VCT-ND†‡◆	.81	.68	.54
	2500	100	140	200	70	SOIC	FOD2742BR1VTR-ND†◊◆		179.55/500	
	2500	100	140	200	70	SOIC	FOD2742CR1VCT-ND†‡◆	.75	.63	.50
	2500	100	140	200	70	SOIC	FOD2742CR1VTR-ND†◊◆		332.50/1,000	
19	5000	1000	4000	15000	300	DIP	FOD852-ND◆	.68	.51	.39
	5000	1000	4000	15000	300	SMD	FOD852S-ND◆	.68	.51	.39
	5000	1000	4000	15000	300	SMD	FOD852SDCT-ND‡◆	.72	.54	.41
	5000	1000	4000	15000	300	SMD	FOD852SDTR-ND◊◆		239.40/1,000	
	5000	1000	4000	15000	300	DIP	FOD852W-ND▲◆	.68	.51	.39
	5000	1000	4000	15000	300	DIP	FOD852300-ND†◆	.68	.51	.39
	5000	1000	4000	15000	300	DIP	FOD852300W-ND†▲◆	.68	.51	.39
	5000	1000	4000	15000	300	SMD	FOD8523S-ND†◆	.68	.51	.39
	5000	1000	4000	15000	300	SMD	FOD8523SDCT-ND†‡◆	.72	.54	.41
	5000	1000	4000	15000	300	SMD	FOD8523SDTR-ND†◊◆		478.80/2,000	
20	2500	—	—	—	—	DIP	HCPL3700-ND◆	2.28	1.82	1.37
21	2500	100	—	200	70	SMD	MOC207R1MCT-ND‡◆	.62	.47	.35
	2500	100	—	200	70	SMD	MOC207R1MTR-ND◊◆		108.00/500	
	2500	100	—	200	70	SMD	MOC207R2MCT-ND‡◆	.58	.44	.33
	2500	100	—	200	70	SMD	MOC207R2MTR-ND◊◆		472.50/2,500	
	2500	100	—	200	70	SOIC	MOCD207R1MCT-ND‡◆	.79	.66	.53
	2500	100	—	200	70	SOIC	MOCD207R1MTR-ND◊◆		183.50/500	
	2500	100	—	200	70	SOIC	MOCD207R2MCT-ND‡◆	.79	.66	.53
	2500	100	—	200	70	SOIC	MOCD207R2MTR-ND◊◆		852.50/2,500	
22	5000	40	—	80	70	SMD	FOD617AS-ND†◆ ***NEW!***	.46	.37	.26
	5000	40	—	80	70	SMD	FOD617A3S-ND†◆ ***NEW!***	.46	.37	.26
	5000	63	—	125	70	SMD	FOD617B3SDCT-ND†‡◆ ***NEW!***	.44	.35	.27
	5000	63	—	125	70	SMD	FOD617B3SDTR-ND†◊◆ ***NEW!***		121.80/1,000	
23	7500	100	—	—	60	SMD	4N29SM-ND◆ ***NEW!***	.58	.44	.33
	7500	100	—	—	60	SMD	4N29SR2MCT-ND‡◆ ***NEW!***	.66	.50	.37
	7500	100	—	—	60	SMD	4N29SR2MTR-ND◊◆ ***NEW!***		218.12/1,000	
	7500	100	—	—	60	SMD	4N30SM-ND◆ ***NEW!***	.58	.44	.33
	7500	100	—	—	60	SMD	4N30SR2MCT-ND‡◆ ***NEW!***	.58	.44	.33
	7500	100	—	—	60	SMD	4N30SR2MTR-ND◊◆ ***NEW!***		192.85/1,000	
	7500	500	—	—	60	SMD	4N32SM-ND◆ ***NEW!***	.58	.44	.33
	7500	20	—	—	80	SMD	4N38SR2MCT-ND‡◆ ***NEW!***	.96	.72	.54
	7500	20	—	—	80	SMD	4N38SR2MTR-ND◊◆ ***NEW!***		317.87/1,000	
	7500	40	—	80	70	SMD	CNY17F1SM-ND◆ ***NEW!***	.55	.44	.33
	7500	300	—	—	30	SMD	H11AG1SM-ND◆ ***NEW!***	.85	.71	.57
	7500	300	—	—	30	SMD	H11AG1SR2MCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	300	—	—	30	SMD	H11AG1SR2MTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	500	—	—	60	SMD	H11B1SM-ND◆ ***NEW!***	.85	.71	.57
	7500	500	—	—	60	SMD	H11B1SR2MCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	500	—	—	60	SMD	H11B1SR2MTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	500	—	—	60	SMD	H11B1SR2VMCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	500	—	—	60	SMD	H11B1SR2VMTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	20	—	—	300	SMD	H11D1SM-ND◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	300	SMD	H11D1SR2MCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	300	SMD	H11D1SR2MTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	20	—	—	300	SMD	H11D1SR2VMCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	300	SMD	H11D1SR2VMTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	20	—	—	300	SMD	H11D2SR2MCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	300	SMD	H11D2SR2MTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	20	—	—	300	SMD	H11D2SR2VMCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	300	SMD	H11D2SR2VMTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	20	—	—	200	SMD	H11D3SM-ND◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	200	SMD	H11D3SR2MCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	200	SMD	H11D3SR2MTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	—	—	200	30	SMD	H11F1SM-ND◆ ***NEW!***	.85	.71	.57
	7500	—	—	200	30	SMD	H11F1SR2MCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	—	—	200	30	SMD	H11F1SR2MTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	—	—	470	15	SMD	H11F3SM-ND◆ ***NEW!***	.85	.71	.57
	7500	—	—	470	15	SMD	H11F3SR2MCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	—	—	470	15	SMD	H11F3SR2MTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	—	—	470	15	SMD	H11F3SR2VMCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	—	—	470	15	SMD	H11F3SR2VMTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	—	—	470	15	SMD	H11F3SVM-ND◆ ***NEW!***	.85	.71	.57
	7500	1000	—	—	100	SMD	H11G1SM-ND◆ ***NEW!***	.85	.71	.57
	7500	1000	—	—	100	SMD	H11G1SR2MCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	1000	—	—	100	SMD	H11G1SR2MTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	500	—	—	80	SMD	H11G2SM-ND◆ ***NEW!***	.85	.71	.57
	7500	500	—	—	80	SMD	H11G2SR2MCT-ND‡◆ ***NEW!***	.85	.71	.57
	7500	500	—	—	80	SMD	H11G2SR2MTR-ND◊◆ ***NEW!***		375.06/1,000	
	7500	200	—	—	55	SMD	H11G3SR2MCT-ND‡◆ ***NEW!***	.75	.63	.50
	7500	200	—	—	55	SMD	H11G3SR2MTR-ND◊◆ ***NEW!***		332.50/1,000	
	7500	120	—	—	100	SMD	MCT5201SM-ND◆ ***NEW!***	.57	.43	.32
	7500	120	—	—	100	SMD	MCT5201SR2MCT-ND‡◆ ***NEW!***	.57	.43	.32
	7500	120	—	—	100	SMD	MCT5201SR2MTR-ND◊◆ ***NEW!***		188.86/1,000	
	7500	60	—	—	100	SMD	MCT5210SM-ND◆ ***NEW!***	.57	.43	.32
	7500	100	—	—	100	SMD	MCT5211SR2MCT-ND‡◆ ***NEW!***	.57	.43	.32
	7500	100	—	—	100	SMD	MCT5211SR2MTR-ND◊◆ ***NEW!***		188.86/1,000	
	7500	1,000	—	—	100	SMD	MOC8021SR2MCT-ND‡◆ ***NEW!***	.57	.43	.32
	7500	1,000	—	—	100	SMD	MOC8021SR2MTR-ND◊◆ ***NEW!***		188.86/1,000	
	7500	500	—	—	100	SMD	MOC8050SR2MCT-ND‡◆ ***NEW!***	.57	.43	.32
	7500	500	—	—	100	SMD	MOC8050SR2MTR-ND◊◆ ***NEW!***		188.861,000	
	7500	20	—	—	400	SMD	MOC8204SM-ND◆ ***NEW!***	.99	.83	.66
	7500	20	—	—	400	SMD	MOC8204SR2MCT-ND‡◆ ***NEW!***	.99	.83	.66
	7500	20	—	—	400	SMD	MOC8204SR2MTR-ND◊◆ ***NEW!***		438.90/1,000	
	7500	300	—	—	60	SMD	TIL113SM-ND◆ ***NEW!***	.66	.50	.37
24	7500	100	—	—	60	DIP	4N29M-ND◆ ***NEW!***	.58	.44	.33
	7500	100	—	—	60	DIP	4N30M-ND◆ ***NEW!***	.58	.44	.33
	7500	500	—	—	60	DIP	4N32M-ND◆ ***NEW!***	.49	.37	.28
	7500	500	—	—	60	DIP	4N32VM-ND◆ ***NEW!***	.58	.44	.33
	7500	500	—	—	60	DIP	4N33M-ND◆ ***NEW!***	.56	.45	.34
	7500	500	—	—	60	DIP	4N33VM-ND◆ ***NEW!***	.58	.44	.33
	7500	20	—	—	80	DIP	4N38M-ND◆ ***NEW!***	.75	.57	.43
	7500	300	—	—	30	DIP	H11AG1M-ND◆ ***NEW!***	.85	.71	.57
	7500	300	—	—	30	DIP	H11AG1VM-ND◆ ***NEW!***	.85	.71	.57
	7500	500	—	—	60	DIP	H11B1M-ND◆ ***NEW!***	.85	.71	.57
	7500	500	—	—	60	DIP	H11B1VM-ND◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	300	DIP	H11D1MFS-ND◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	300	DIP	H11D1VM-ND◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	300	DIP	H11D2M-ND◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	300	DIP	H11D2VM-ND◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	200	DIP	H11D3M-ND◆ ***NEW!***	.85	.71	.57
	7500	—	—	200	30	DIP	H11F1M-ND◆ ***NEW!***	.85	.71	.57
	7500	—	—	200	30	DIP	H11F1VM-ND◆ ***NEW!***	.85	.71	.57
	7500	—	—	330	30	DIP	H11F2M-ND◆ ***NEW!***	.85	.71	.57
	7500	—	—	470	15	DIP	H11F3M-ND◆ ***NEW!***	1.20	1.00	.80
	7500	—	—	470	15	DIP	H11F3VM-ND◆ ***NEW!***	.85	.71	.57
	7500	1000	—	—	100	DIP	H11G1M-ND◆ ***NEW!***	.85	.71	.57
	7500	500	—	—	80	DIP	H11G2M-ND◆ ***NEW!***	.85	.71	.57
	7500	200	—	—	55	DIP	H11G3M-ND◆ ***NEW!***	.85	.71	.57
	7500	120	—	—	100	DIP	MCT5201M-ND◆ ***NEW!***	.57	.43	.32
	7500	60	—	—	100	DIP	MCT5210M-ND◆ ***NEW!***	.57	.43	.32
	7500	100	—	—	100	DIP	MCT5211M-ND◆ ***NEW!***	.57	.43	.32
	7500	1,000	—	—	100	DIP	MOC8021M-ND◆ ***NEW!***	.57	.43	.32
	7500	500	—	—	100	DIP	MOC8050M-ND◆ ***NEW!***	.57	.43	.32
	7500	50	—	150	70	DIP	MOC8106M-ND◆ ***NEW!***	.58	.44	.33
	7500	20	—	—	70	DIP	MOC8111M-ND◆ ***NEW!***	.57	.43	.32
	7500	50	—	—	70	DIP	MOC8112M-ND◆ ***NEW!***	.57	.43	.32
	7500	100	—	—	70	DIP	MOC8113M-ND◆ ***NEW!***	.48	.36	.27
	7500	20	—	—	400	DIP	MOC8204M-ND◆ ***NEW!***	.99	.83	.66
	7500	300	—	—	60	DIP	TIL113M-ND◆ ***NEW!***	.66	.50	.37
25	7500	100	—	—	60	DIP	4N29TM-ND◆ ***NEW!***	.58	.44	.33
	7500	500	—	—	60	DIP	4N32TVM-ND◆ ***NEW!***	.58	.44	.33
	7500	300	—	—	30	DIP	H11AG1TVM-ND◆ ***NEW!***	.85	.71	.57
	7500	20	—	—	300	DIP	H11D1TM-ND◆ ***NEW!***	.85	.71	.57
	7500	—	—	200	30	DIP	H11F1TVM-ND◆ ***NEW!***	.85	.71	.57
	7500	1000	—	—	100	DIP	H11G1TVM-ND◆ ***NEW!***	.85	.71	.57
	7500	500	—	—	100	SMD	MOC8050TVM-ND◆ ***NEW!***	.57	.43	.32
	7500	20	—	—	70	DIP	MOC8111TM-ND◆ ***NEW!***	.57	.43	.32

† VDE approval ▲ .4” Lead Spacing ‡ Cut Tape ◊ Tape and Reel ◆ ***RoHS Compliant*** *(Continued)*

SCR and Triac Output Optoisolators

Fig.	Isolation Volt.	Max I_F Trigger (mA)	Min. Blocking Voltage	Maximum I_{DRM}	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
19	5000	30	600	100nA	DIP	FOD420-ND◆ ***NEW!***	2.38	1.90	1.43
	5000	30	800	100nA	DIP	FOD4208-ND◆ ***NEW!***	2.36	1.89	1.47
	5000	30	600	100nA	DIP	FOD4216-ND◆ ***NEW!***	2.36	1.89	1.47
	5000	30	800	100nA	DIP	FOD4218-ND◆ ***NEW!***	3.15	2.52	1.96
26	5300	15	250	.100	DIP	MOC3010M-ND◆	.64	.48	.36
	5300	10	250	.100	DIP	MOC3011M-ND◆	.56	.42	.32
	5300	5	250	.100	DIP	MOC3012M-ND◆	.56	.42	.32
	5300	5	250	.100	SMD	MOC3012SM-ND◆	.66	.50	.38
	5300	30	400	.100	DIP	MOC3020MFS-ND◆	.64	.48	.36
	5300	15	400	.100	DIP	MOC3021MFS-ND◆	.68	.51	.39
	5300	10	400	.100	DIP	MOC3022MFS-ND◆	.60	.45	.34
	5300	10	400	.100	DIP	MOC3022VM-ND†◆	.64	.48	.36
	5300	5	400	.100	DIP	MOC3023MFS-ND◆	.60	.45	.34
	5300	5	400	.100	SMD	MOC3023SM-ND◆	.60	.45	.34
	5300	15	600	.100	DIP	MOC3051M-ND◆	.96	.72	.54
	5300	10	600	.100	DIP	MOC3052M-ND◆	.84	.63	.48
27	5300	15	250	.100	DIP	MOC3031M-ND◆	1.04	.78	.59
	5300	10	250	.100	DIP	MOC3032M-ND◆	.96	.72	.54
	5300	5	250	.100	DIP	MOC3033M-ND	.81	.68	.54
	5300	15	400	.100	DIP	MOC3041M-ND◆	1.16	.87	.66
	5300	10	400	.100	DIP	MOC3042M-ND◆	1.16	.87	.66
	5300	5	400	.100	DIP	MOC3043M-ND◆	.93	.78	.62
	5300	15	600	.500	DIP	MOC3061M-ND◆	1.12	.84	.63
	5300	10	600	.500	DIP	MOC3062M-ND◆	.78	.65	.52
	5300	5	600	.500	DIP	MOC3063M-ND◆	.83	.69	.55
	5300	5	600	.500	DIP	MOC3063TM-ND▲◆	.96	.80	.64
	5300	15	800	.500	DIP	MOC3081M-ND◆	1.14	.95	.76
	5300	10	800	.500	DIP	MOC3082M-ND◆	1.08	.90	.72
	5300	5	800	.500	DIP	MOC3083M-ND◆	1.23	1.03	.82
	5300	5	600	.100	DIP	MOC3163M-ND◆	1.63	1.30	.98
28	5300	60	400	100nA	SMD	MOC3023SR2MCT-ND‡◆	.64	.48	.36
	5300	60	400	100nA	SMD	MOC3023SR2MTR-ND◊◆	213.00/1,000		
	7500	60	600	100nA	SMD	MOC3052SR2VMCT-ND‡◆	.92	.69	.52
	7500	60	600	100nA	SMD	MOC3052SR2VMTR-ND◊◆	306.00/1,000		
29	7500	60	400	100nA	SMD	MOC3043SR2MCT-ND‡◆	.99	.83	.66
	7500	60	400	100nA	SMD	MOC3043SR2MTR-ND◊◆	439.00/1,000		
	7500	60	600	100nA	SMD	MOC3063SR2MCT-ND‡◆	.99	.83	.66
	7500	60	600	100nA	SMD	MOC3063SR2MTR-ND◊◆	439.00/1,000		
30	3750	15	250	100nA	MFP	FODM3010R3VCT-ND‡◆	.84	.63	.48
	3750	15	250	100nA	MFP	FODM3010R3VTR-ND◊◆	147.00/500		
	3750	10	250	100nA	MFP	FODM3011R3VCT-ND‡◆	.90	.68	.51
	3750	10	250	100nA	MFP	FODM3011R3VTR-ND◊◆	157.50/500		
	3750	5	250	100nA	MFP	FODM3012R3VCT-ND‡◆	.77	.64	.51
	3750	5	250	100nA	MFP	FODM3012R3VTR-ND◊◆	178.50/500		
	3750	10	400	100nA	MFP	FODM3022R3VCT-ND‡◆	.95	.79	.63
	3750	10	400	100nA	MFP	FODM3022R3VTR-ND◊◆	220.50/500		
	3750	5	400	100nA	MFP	FODM3023R3VCT-ND‡◆	.99	.83	.66
	3750	5	400	100nA	MFP	FODM3023R3VTR-ND◊◆	231.00/500		
	3750	15	600	100nA	MFP	FODM3051R3VCT-ND‡◆	1.04	.87	.69
	3750	15	600	100nA	MFP	FODM3051R3VTR-ND◊◆	241.50/500		
	3750	10	600	100nA	MFP	FODM3052R3VCT-ND‡◆	1.13	.94	.75
	3750	10	600	100nA	MFP	FODM3052R3VTR-ND◊◆	262.50/500		
	3750	5	600	100nA	MFP	FODM3053R3VCT-ND‡◆	1.22	1.02	.81
	3750	5	600	100nA	MFP	FODM3053R3VTR-ND◊◆	283.50/500		
31	3750	60	250	100nA	MFP	FODM3011R1_NF098CT-ND‡◆	.72	.54	.41
	3750	60	250	100nA	MFP	FODM3011R1_NF098TR-ND◊◆	126.00/500		
	3750	60	250	100nA	MFP	FODM3012R1_NF098CT-ND‡◆	.82	.62	.46
	3750	60	250	100nA	MFP	FODM3012R1_NF098TR-ND◊◆	143.00/500		
	3750	60	600	100nA	MFP	FODM3052R1_NF098CT-ND‡◆	.90	.75	.60
	3750	60	600	100nA	MFP	FODM3052R1_NF098TR-ND◊◆	210.00/500		
	3750	60	600	100nA	MFP	FODM3053R1_NF098CT-ND‡◆	.97	.81	.65
	3750	60	600	100nA	MFP	FODM3053R1_NF098TR-ND◊◆	227.00/500		
32	3750	60	600	500nA	MFP	FODM3062-ND◆	1.26	1.05	.84
	3750	60	600	500nA	MFP	FODM3063-ND◆	1.38	1.15	.92
	3750	60	800	500nA	MFP	FODM3082-ND◆	1.50	1.20	.90
	3750	60	800	500nA	MFP	FODM3083-ND◆	1.55	1.24	.93

† VDE approval ▲ .4" Lead Spacing ‡ Cut Tape ◊ Tape and Reel ◆ ***RoHS Compliant***

4-Pin Couplers

Fig.	Isol. Volt.	Current Transfer Ratio	V_{CEO} (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
14C	2500	50-600%	7	3/3	DIP	HMHAA280R1CT-ND‡	.51	.39	.29
	2500	50-600%	7	3/3	DIP	HMHAA280R1TR-ND◊	89.60/500		
	2500	50-600%	80	3/3	MFP	HMHAA280R4VCT-ND†‡	.51	.39	.29
	2500	50-600%	80	3/3	MFP	HMHAA280R4VTR-ND†◊	416.00/2,500		
14A	2500	50-600%	80	3/3	MFP	HMHA281-ND†	.50	.40	.30
	5000	40-80%	70	4/3	DIP	FOD617A-ND†	.46	.37	.26
	5000	63-125%	70	4/3	DIP	FOD617B-ND†	.46	.37	.26
	5000	100-200%	70	4/3	DIP	FOD617C-ND†	.46	.37	.26
	5000	160-320%	70	4/3	DIP	FOD617D-ND†	.46	.37	.26
14B	5000	40-80%	70	4/3	DIP	FOD617A300-ND†	.46	.37	.26
	5000	63-125%	70	4/3	DIP	FOD617B300-ND	.46	.37	.26
	5000	100-200%	70	4/3	DIP	FOD617C300-ND†	.46	.37	.26
	5000	160-320%	70	4/3	DIP	FOD617D300-ND†	.46	.37	.26
	5000	20-300%	70	4/3	DIP	FOD814-ND	.53	.43	.32
	5000	20-300%	70	4/3	SMD	FOD814S-ND	.48	.39	.29
	5000	20-300%	70	4/3	SMD	FOD814SDCT-ND‡	.48	.36	.27
	5000	20-300%	70	4/3	SMD	FOD814SDTR-ND◊	319.20/2,000		
	5000	20-300%	70	4/3	DIP	FOD814W-ND▲	.48	.39	.29
	5000	20-300%	70	4/3	DIP	FOD814300-ND†	.48	.39	.29
	5000	20-300%	70	4/3	DIP	FOD814300W-ND†▲	.48	.39	.29
	5000	20-300%	70	4/3	SMD	FOD8143S-ND†	.48	.39	.29
	5000	20-300%	70	4/3	SMD	FOD8143SDCT-ND†‡	.48	.36	.27
14B	5000	20-300%	70	4/3	SMD	FOD8143SDTR-ND†◊	319.20/2,000		
	5000	50-150%	70	4/3	DIP	FOD814A-ND	.48	.39	.29
	5000	50-150%	70	4/3	SMD	FOD814AS-ND	.48	.39	.29
	5000	50-150%	70	4/3	SMD	FOD814ASDCT-ND‡	.48	.36	.27
	5000	50-150%	70	4/3	SMD	FOD814ASDTR-ND◊	159.60/1,000		
	5000	50-150%	70	4/3	DIP	FOD814AW-ND▲	.52	.42	.32
	5000	50-150%	70	4/3	DIP	FOD814A300-ND†	.48	.39	.29
	5000	50-150%	70	4/3	DIP	FOD814A300W-ND†▲	.53	.43	.32
	5000	50-150%	70	4/3	SMD	FOD814A3S-ND†	.48	.39	.29
	5000	50-150%	70	4/3	SMD	FOD814A3SDCT-ND†‡	.48	.36	.27
	5000	50-150%	70	4/3	SMD	FOD814A3SDTR-ND†◊	624.00/4,000		
14D	5000	600-7500%	35	60/53	SMD	FOD816S-ND	.58	.47	.35
	5000	600-7500%	35	60/53	SMD	FOD816SDCT-ND‡	.52	.40	.30
	5000	600-7500%	35	60/53	SMD	FOD816SDTR-ND◊	174.23/1,000		
	5000	600-7500%	35	60/53	DIP	FOD816W-ND▲	.58	.47	.35
	5000	600-7500%	35	60/53	DIP	FOD816300-ND†	.58	.47	.35
	5000	600-7500%	35	60/53	DIP	FOD816300W-ND†▲	.58	.47	.35
	5000	600-7500%	35	60/53	SMD	FOD8163S-ND†	.58	.47	.35
	5000	600-7500%	35	60/53	SMD	FOD8163SDCT-ND†‡	.52	.40	.30
	5000	600-7500%	35	60/53	SMD	FOD8163SDTR-ND†◊	348.46/2,000		

† VDE approval ▲ .4" Lead Spacing ‡ Cut Tape ◊ Tape and Reel

Logic Output Optoisolators

Fig.	Function	Input: LSTTL Output	15M Baud Rt. Output Configuration	Package Type	Digi-Key Part No.	Price Each 1	10	100	T&R Pricing◊ 500
26	Buff.	TTL	Totem Pole	SMD	HCPL2630S-ND◆	2.43	1.95	1.46	—
33	Buff.	TTL	Totem Pole	SMD	FOD0708R1CT-ND‡◆	2.84	2.27	1.77	819.00
34	Buff.	TTL	Totem Pole	SMD	FOD0738R1CT-ND‡◆	5.54	4.43	3.45	1599.00

Fig.	Isolation Volt.	$I_{f_{on}}$ Current (Max.) mA	I_{CCL} (Max.)	Oper. Voltage (Max.) mV	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel Pricing◊ 1,000
35	5000	1.6	7.0	2.0	SMD	FOD2200SDVCT-ND‡◆	2.27	1.82	1.42	1287.75
36	2500	50	13	5.5	SOIC	HCPL0600-ND◆	1.90	1.52	1.14	—
	3750	50	13	5.5	SOIC	HCPL0601-ND◆	2.33	1.87	1.40	—
	2500	50	13	7.0	SMD	6N137SDCT-ND‡◆	.81	.68	.54	359.00
37	2500	—	—	—	SOIC	HCPL062N-ND◆	4.28	3.42	2.66	—
	3750	50	13	7.0	SOICW	HCPL0637-ND◆	1.88	1.50	1.13	—
	3750	—	—	—	SOICW	HCPL0638-ND◆	2.00	1.60	1.20	—
34	2500	—	—	—	SMD	HCPL2631SDCT-ND‡◆	1.75	1.40	1.05	910.00
39	5300	1.6	5	16	DIP	H11L1-MQT-ND◆	.92	.69	.52	—
	5300	1.6	5	16	SMD	H11L1SM-ND◆	.92	.69	.52	—
	7500	60	5	15	SMD	H11L1SR2MCT-ND‡◆	.96	.72	.54	319.20
	7500	1.6	5	15	SMD	H11L1SR2VMCT-ND‡◆	.96	.72	.54	319.20
	7500	1.6	5	15	SMD	H11L1SVM-ND†◆	.92	.69	.52	—
	7500	1.6	5	15	DIP	H11L1TM-ND◆	.92	.69	.52	—
	7500	1.6	5	15	DIP	H11L1TVM-ND†◆	.92	.69	.52	—
	5300	1.6	5	16	DIP	H11L1V-MQT-ND†◆	.69	.58	.46	—
	7500	1.6	5	15	DIP	H11L1VM-ND◆	.92	.69	.52	—
	5300	10	5	16	DIP	H11L2-MQT-ND	.69	.58	.46	—
	7500	10.0	5	15	SOIC	H11L2M-ND◆	.92	.69	.52	—
	7500	10.0	5	15	SMD	H11L2SM-ND◆	.99	.75	.56	—
	7500	10.0	5	15	SMD	H11L2SR2MCT-ND‡	.96	.72	.54	319.20
	7500	10.0	5	15	SMD	H11L2SVM-ND†◆	.99	.75	.56	—
	7500	10.0	5	15	DIP	H11L2TVM-ND†◆	.99	.75	.56	—
	7500	10.0	5	15	DIP	H11L2VM-ND†	.92	.69	.52	—
	7500	60	5	16	DIP	H11L3M-ND◆	.92	.69	.52	—
	5300	3.2	10	16	DIP	H11N1-MQT-ND	2.03	1.62	1.22	—
	5300	10	10	16	DIP	H11N3-M-ND	1.85	1.48	1.11	—

Fig.	Isolation Volt.	Max. Prop. Delay (nS)	Typ. CMR V/µsec.	I_F (mA)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
40	2500	75	10,000	5	DIP	6N137QT-ND◆	1.04	.78	.59
	2500	75	10,000	5	DIP	HCPL2601QT-ND◆	1.31	1.05	.79
	2500	75	10,000	5	DIP	HCPL2611-ND◆	1.50	1.20	.90
41	2500	75	10,000	5	DIP	HCPL2630QT-ND◆	2.43	1.95	1.46
	2500	75	10,000	5	DIP	HCPL2631QT-ND◆	1.75	1.40	1.05

Fig.	Isolation Voltage	BV_{CEO} (Min.)	Typ. t_{on}/t_{off} (µsec.)	Package Type	Digi-Key Part No.	Price Each 1	10	100
42	2500	5	1/1	DIP	MID400-ND◆	2.43	1.95	1.52

◊ For Tape and Reel change CT-ND to TR-ND ‡ Cut Tape † VDE approval ◆ ***RoHS Compliant***

FET Outputs

Fig.	Isolation Voltage	Rds ON (Ω)	Vbr (Min.)	Typ. t_{on}/t_{off} (µS)	Package Type	Digi-Key Part No.	Price Each 1	10	100
14A	2500	30	6	1/5	BGA	FODB100FSCT-ND‡	1.55	1.24	.93
		30	6	1/5	BGA	FODB100FSTR-ND◊	2380.80/3,000		
		30	6	1/5	BGA	FODB102CT-ND‡	1.55	1.24	.93
		30	6	1/5	BGA	FODB102TR-ND◊	2380.80/3,000		
43	2500	1.5	6	1/5	DIPW	FOD3180-ND	2.08	1.66	1.25
	5000	1.5	5	2/0.3	SMDIPW	FOD3180SDCT-ND‡	2.10	1.68	1.26
		1.5	5	2/0.3	SMDIPW	FOD3180SDTR-ND◊	1092.00/1,000		
		1.5	5	2/0.3	DIPW	FOD3180TV-ND†▲	2.08	1.66	1.25

‡ Cut Tape ◊ Tape and Reel † VDE approval ▲ .4" Lead Spacing

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY Semiconductor

Phototransistors

Fig.	Package	Peak Wavelength (nm)	Bandwidth (nm)	Collector Light Current Ica (mA) Typ.	View Angle (°)	On/Off Time (µs)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel† Qty.	Pricing	Vishay Part No.
1	5.0 mm	850	620 ~ 980	10	30	6/5	751-1003-ND	1.08	.85	.66	—	—	BPV11
		930	900 ~ 980	9	30	6/5	751-1004-ND	1.08	.85	.66	—	—	BPV11F
2	3.0 mm	850	620 ~ 980	1.5	50	2.0/2.3	751-1023-ND	.78	.58	.46	—	—	BPW85
		925	875 ~ 1000	3.2	60	2.0/2.3	751-1041-ND	.79	.58	.46	—	—	TEFT4300
3	1.8 mm	825	620 ~ 960	0.14	80	4.8/5	751-1010-ND	.83	.65	.50	—	—	BPW16N
		825	620 ~ 960	1	24	4.8/5	751-1011-ND	.83	.65	.50	—	—	BPW17N
4	Side View	920	850 ~ 980	2.5	60	6/5	751-1061-ND	.99	.86	.66	—	—	TEST2600
5	Side View	920	850 ~ 980	4	74	6/5	751-1042-ND	1.05	.82	.63	—	—	TEKT5400S
7	TO-18	850	620 ~ 980	0.6	80	6/5	751-1018-ND	2.18	1.71	1.44	—	—	BPW76A
		850	620 ~ 980	1.2	80	6/5	751-1019-ND	2.18	1.71	1.44	—	—	BPW76B
		850	620 ~ 980	10	20	6/5	751-1020-ND	2.18	1.71	1.44	—	—	BPW77NA
		850	620 ~ 980	20	20	6/5	751-1021-ND	2.18	1.71	1.44	—	—	BPW77NB
8	1.9 mm	950	750 ~ 980	7	30	2.0/2.3	751-1052-1-ND‡	.87	.68	.58	1,000	299.15	TEMT1000
9	1.9 mm	950	750 ~ 980	7	30	2.0/2.3	751-1053-1-ND‡	.87	.68	.58	1,000	299.15	TEMT1020
10	1.9 mm	950	750 ~ 980	7	30	2.0/2.3	751-1054-1-ND‡	.87	.68	.58	1,000	299.15	TEMT1030
16	PLCC-2	830	620 ~ 980	0.5	120	2	751-1237-1-ND‡	.97	.76	.65	1,500	334.80/M	VEMT3700-GS08

† For Tape and Reel Part number, change 1-ND to 2-ND. ‡ Cut Tape

PIN Photodiodes

Fig.	Package	Peak Wave-length (nm)	Bandwidth (nm)	Sensi-tivity Ira Typ. (µA)	View Angle (°)	Rise/Fall Time (ns)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel† Qty.	Pricing	Vishay Part No.
1	5.0 mm	920	570 ~ 1040	70	40	2.5	751-1001-ND	1.11	.87	.67	—	—	BPV10
		940	790 ~ 1050	60	40	2.5	751-1002-ND	1.11	.87	.67	—	—	BPV10NF
6	Flat Side View	900	600 ~ 1050	50	130	100	751-1017-ND	1.01	.81	.68	—	—	BPW46
		950	870 ~ 1050	45	130	100	751-1016-ND	.96	.78	.65	—	—	BPW41N
		950	790 ~ 1050	45	130	100	751-1022-ND	1.01	.81	.68	—	—	BPW83
7	TO-18	900	600 ~ 1050	60	24	7	751-1014-ND	3.69	3.22	2.40	—	—	BPW24R
8	1.9 mm	900	840 ~ 1050	10	30	4	751-1043-1-ND‡	.97	.76	.65	1,000	334.80	TEMD1000
9	1.9 mm	900	840 ~ 1050	10	30	4	751-1044-1-ND‡	.97	.76	.65	1,000	334.80	TEMD1020
10	1.9 mm	900	840 ~ 1050	10	30	4	751-1045-1-ND‡	.97	.76	.65	1,000	334.80	TEMD1030
11	Side View	950	870 ~ 1050	80	120	100	751-1006-ND	1.04	.90	.70	—	—	BPV22F
		940	790 ~ 1050	85	120	100	751-1007-ND	1.04	.90	.70	—	—	BPV22NF
		950	870 ~ 1050	63	120	70	751-1008-ND	.96	.78	.65	—	—	BPV23F
		940	790 ~ 1050	65	120	70	751-1009-ND	.96	.78	.65	—	—	BPV23NF
		870	790 ~ 980	25	120	10	751-1060-ND	1.08	.87	.73	—	—	TESP5700
13	TO-5	920	550 ~ 1040	42	100	3.4/3.7	751-1012-ND	5.20	4.59	3.64	—	—	BPW20RF
		565	420 ~ 675	9	100	3.1/3	751-1013-ND	7.80	6.83	5.40	—	—	BPW21R
14	Top View	900	600 ~ 1050	50	130	100	751-1015-ND	1.13	.99	.76	—	—	BPW34
		950	870 ~ 1050	45	130	100	751-1000-ND	1.09	.95	.73	—	—	BP104
15	Mini SMD	900	600 ~ 1050	55	130	100	751-1046-1-ND‡	1.82	1.45	1.23	1,500	614.80/M	TEMD5010X01
		900	600 ~ 1050	35	130	100	751-1047-1-ND‡	1.73	1.37	1.17	1,500	584.36/M	TEMD5020X01
		940	790 ~ 1050	55	130	100	751-1048-1-ND‡	1.82	1.45	1.23	1,500	614.80/M	TEMD5110X01
		940	790 ~ 1050	35	130	100	751-1049-1-ND‡	1.73	1.37	1.17	1,500	584.36/M	TEMD5120X01

† For Tape and Reel Part number, change 1-ND to 2-ND. ‡ Cut Tape

Infrared Emitters

Fig.	Package	Peak Wave-length (nm)	Viewing Angle (°)	Radiant Intensity Typ. (mW/sr)	Rise/Fall Time (ns)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel† Qty.	Pricing	Vishay Part No.
1	5 mm	940	44	45	800	751-1202-ND	.59	.45	.31	—	—	TSAL5300
		940	20	130	800	751-1203-ND	.59	.45	.31	—	—	TSAL6100
		940	34	60	800	751-1204-ND	.59	.45	.31	—	—	TSAL6200
		940	50	40	800	751-1205-ND	.59	.45	.31	—	—	TSAL6400
		940	60	25	800	751-1206-ND	.59	.45	.31	—	—	TSAL7600
	5 mm	870	20	180	15	751-1207-ND	1.08	.87	.73	—	—	TSFF5210
		870	44	70	15	751-1208-ND	1.08	.87	.73	—	—	TSFF5410
		890	20	140	30	751-1210-ND	.76	.56	.41	—	—	TSHF5210
		890	44	65	30	751-1211-ND	.76	.56	.41	—	—	TSHF5410
		850	20	160	20/13	751-1212-ND	1.33	1.07	.89	—	—	TSHG6200
	5 mm	850	44	70	20/13	751-1213-ND	1.33	1.07	.89	—	—	TSHG6400
		830	20	160	20/13	751-1214-ND	1.33	1.07	.89	—	—	TSHG8200
		830	44	70	20/13	751-1215-ND	1.33	1.07	.89	—	—	TSHF8400
2	3 mm	875	40	20	600	751-1209-ND	.63	.46	.37	—	—	TSHA4400
		940	50	30	800	751-1201-ND	.59	.45	.31	—	—	TSAL4400
4	Side View	950	50	2.6	800	751-1233-ND	.76	.56	.45	—	—	TSSS2600
5	Side View	950	60	2 ~ 7	400/450	751-1216-ND	.80	.59	.47	—	—	TSKS5400S
7	TO-18	875	60	6	300	751-1234-ND	2.60	2.04	1.71	—	—	TSTA7500
		950	60	1.6	400	751-1235-ND	2.51	1.96	1.65	—	—	TSTS7500
8	1.9 mm	870	34	5	30	751-1217-1-ND‡	1.01	.79	.68	1,000	348.75	TSMF1000
		950	24	7	800	751-1220-1-ND‡	.87	.68	.58	1,000	299.15	TSML1000
9	1.9 mm	870	34	5	30	751-1218-1-ND‡	1.01	.79	.68	1,000	348.75	TSMF1020
		950	24	7	800	751-1221-1-ND‡	.87	.68	.58	1,000	299.15	TSML1020
10	1.9 mm	870	34	5	30	751-1219-1-ND‡	1.01	.79	.68	1,000	348.75	TSMF1030
		950	24	7	800	751-1222-1-ND‡	.87	.68	.58	1,000	299.15	TSML1030
12	1.8 mm	950	110	1.5	400/450	751-1026-ND	.62	.46	.36	—	—	CQY36N
		950	24	5	400/450	751-1027-ND	.62	.46	.36	—	—	CQY37N
16	PLCC-2	950	120	4.5	800	751-1258-1-ND‡	.50	.37	.30	1,500	144.00/M	VSMS3700-GS08
		940	120	8	800	751-1257-1-ND‡	.70	.52	.42	1,500	200.00/M	VSML3710-GS08
		870	120	10	15	751-1254-1-ND‡	.86	.68	.58	1,500	297.60/M	VSMF4710-GS08
		830	120	10	25	751-1255-1-ND‡	1.48	1.18	1.01	1,500	517.50/M	VSMG2700-GS08
		850	120	10	20/13	751-1256-1-ND‡	1.37	1.09	.93	1,500	462.56/M	VSMG3700-GS08
		890	120	10	30	751-1253-1-ND‡	.72	.56	.48	1,500	248.00/M	VSMF3710-GS08

† For Tape and Reel Part number, change 1-ND to 2-ND. ‡ Cut Tape

Dimensions in mm

Fig. 1

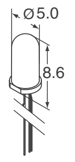

Fig. 2

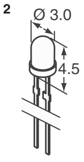

Fig. 3

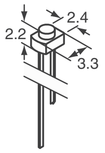

Fig. 4

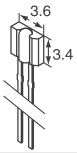

Fig. 5

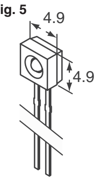

Fig. 6

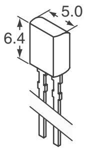

Fig. 7

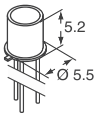

Fig. 8

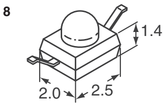

Fig. 9

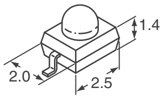

Fig. 10

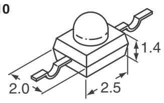

Fig. 11

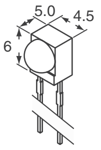

Fig. 12

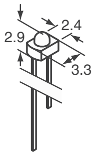

Fig. 13

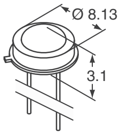

Fig. 14

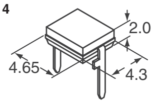

Fig. 15

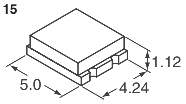

Fig. 16

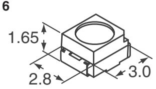

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TOSHIBA Transistor Output Optoisolators

Fig.	Pkg.	Current Transfer Ratio				Collector Breakdown V(BR)	Isolation Voltage (Vrms)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel	
		Min. (%)	Max. (%)	@IF (mA)	VCE (V)				1	10	100		Qty.	Pricing
1	Dip	100	1,200	1	0.5	55	5,000	TLP331F-ND◆	1.08	.90	.72	—	—	—
	Dip	50	600	5	5	55	5,000	TLP631F-ND◆	.75	.63	.50	—	—	—
	Dip	100	600	5	5	55	5,000	TLP631GBF-ND◆	.75	.63	.50	—	—	—
	Dip	50	600	5	5	55	4,000	TLP731D4-GRF-ND◆	.86	.72	.57	—	—	—
	SMD	20	—	10	10	30	2,500	4N25ASHORTF-ND◆	.60	.45	.34	—	—	—
	Dip	20	—	10	10	30	2,500	4N25SHORTFT-ND◆	.48	.36	.27	—	—	—
	Dip	20	—	10	10	30	2,500	4N25SHORTFCT-ND◆†	.56	.42	.32	4N25SHORTFTR-ND◆	1,500	186.20/M
	Dip	100	—	10	10	30	2,500	4N35SHORTF-ND◆	.60	.48	.36	—	—	—
	Dip	100	—	10	10	80	2,500	4N38SHORTF-ND◆	.64	.49	.37	—	—	—
2	Dip	100	1,200	1	0.5	55	5,000	TLP332F-ND◆	1.08	.90	.72	—	—	—
	Dip	50	600	5	5	55	5,000	TLP632F-ND◆	1.07	.89	.71	—	—	—
	Dip	100	600	5	5	55	5,000	TLP632GBF-ND◆	1.07	.89	.71	—	—	—
	Dip	50	600	5	5	80	4,000	TLP732D4-GR-LF2-ND§	1.14	.95	.76	—	—	—
	Dip	50	600	5	5	55	4,000	TLP732D4-GR-LF2F-ND◆§	1.14	.95	.76	—	—	—
3	Dip	100	600	5	5	55	5,000	TLP630GB-TAIEF-ND◆	.75	.63	.50	—	—	—
4	SMD	100	1,200	1	0.5	80	3,750	TLP124F-ND◆	.88	.66	.50	—	—	—
	SMD	100	1,200	1	0.5	80	3,750	TLP124FCT-ND◆†	.88	.66	.50	TLP124FTR-ND◆	3,000	286.00/M
	SMD	200	1,200	1	0.5	80	3,750	TLP124BVFCT-ND◆†	.92	.69	.52	TLP124BVFTR-ND◆	3,000	299.00/M
	SMD	50	600	5	5	80	3,750	TLP181FT-ND◆	.48	.36	.27	—	—	—
	SMD	100	600	5	5	80	3,750	TLP181GBF-ND◆	.48	.36	.27	—	—	—
	SMD	100	600	5	5	80	3,750	TLP181GBFCT-ND◆†	.48	.36	.27	TLP181GBFTR-ND◆	3,000	156.00/M
	SMD	100	300	5	5	80	3,750	TLP181GRFCT-ND◆†	.48	.36	.27	TLP181GRFTR-ND◆	3,000	156.00/M
5	SMD	50	600	5	5	80	3,750	TLP131F-ND◆	.90	.75	.60	—	—	—
	SMD	100	600	5	5	80	3,750	TLP131GBF-ND◆	.90	.75	.60	—	—	—
	SMD	100	600	5	5	80	3,750	TLP131GBFCT-ND◆†	.90	.75	.60	TLP131GBFTR-ND◆	3,000	390.00/M
	SMD	100	1,200	1	0.5	80	3,750	TLP137F-ND◆	.84	.70	.56	—	—	—
6	Dip	50	600	5	5	55	5,000	TLP621FT-ND◆	.69	.52	.39	—	—	—
	Dip	200	600	5	5	55	5,000	TLP621BLTF-ND◆	.56	.42	.32	—	—	—
	Dip(.4)	50	150	5	5	55	5,000	TLP621D4-Y-LF2-ND§	.60	.45	.34	—	—	—
	Dip(.4)	50	150	5	5	55	5,000	TLP621D4-Y-LF2T-ND§	.56	.42	.32	—	—	—
	Dip	100	600	5	5	55	5,000	TLP621GBT-ND	.52	.39	.30	—	—	—
	Dip	100	600	5	5	55	5,000	TLP621GBTF-ND◆	.52	.39	.30	—	—	—
	Dip	100	300	5	5	55	5,000	TLP621GRT-ND	.52	.39	.30	—	—	—
	Dip	100	300	5	5	55	5,000	TLP621GRFT-ND◆	.52	.39	.30	—	—	—
	Dip	50	600	5	5	55	5,000	TLP621-2FT-ND◆	.78	.65	.52	—	—	—
	Dip	100	600	5	5	55	5,000	TLP621-2GBFT-ND◆	1.05	.88	.70	—	—	—
	Dip	100	300	5	5	55	5,000	TLP621-2GRFT-ND◆	1.05	.88	.70	—	—	—
	Dip	50	600	5	5	55	5,000	TLP621-4F-ND◆	2.55	2.13	1.79	—	—	—
	Dip	100	600	5	5	55	5,000	TLP621-4GBF-ND◆	2.13	1.70	1.28	—	—	—
	SMD	100	1,200	1	0.5	55	5,000	TLP624LF1F-ND◆	.72	.60	.48	—	—	—
	Dip	100	1,200	1	0.5	55	5,000	TLP624F-ND◆	.96	.72	.54	—	—	—
	Dip	100	1,200	1	0.5	55	5,000	TLP624-2F-ND◆	1.50	1.25	1.05	—	—	—
	Dip	100	1,200	1	0.5	55	5,000	TLP624-4F-ND◆	2.25	1.80	1.40	—	—	—
	Dip	100	1,200	±1	0.5	55	5,000	TLP626F-ND◆	1.05	.88	.70	—	—	—
	Dip	200	1,200	±1	0.5	55	5,000	TLP626BVF-ND◆	1.14	.95	.76	—	—	—
7	Dip	100	600	±5	5	55	5,000	TLP620GBF-ND◆	.72	.54	.41	—	—	—
	Dip	50	600	±5	5	55	5,000	TLP620F-ND◆	.60	.45	.34	—	—	—
	Dip	100	300	±5	5	55	5,000	TLP620GR-ND	.72	.54	.41	—	—	—
	Dip	100	600	±5	5	55	5,000	TLP620GRFT-ND◆	.72	.54	.41	—	—	—
	Dip	50	600	±5	5	55	5,000	TLP620-2FT-ND◆	1.08	.90	.72	—	—	—
	Dip	100	600	±5	5	55	5,000	TLP620-2GBFT-ND◆	1.14	.95	.76	—	—	—
	SMD	100	600	±5	5	55	5,000	TLP620-2GBFCT-ND◆†	1.30	1.04	.78	TLP620-2GBFTR-ND◆	1,000	676.00
	Dip	50	600	±5	5	55	5,000	TLP620-4F-ND◆	2.32	1.86	1.39	—	—	—
	Dip	100	600	±5	5	55	5,000	TLP620-4GBF-ND◆	1.68	1.34	1.01	—	—	—
	Dip	100	600	±5	5	55	5,000	TLP620-4D4-GBF-ND◆	2.43	1.95	1.46	—	—	—
	Dip	100	1,200	±1	—	55	5,000	TLP626-2-ND	1.75	1.40	1.05	—	—	—
	Dip	100	1,200	±1	—	55	5,000	TLP626-2F-ND◆	1.75	1.40	1.05	—	—	—
	Dip	100	1,200	±1	—	55	5,000	TLP626-4F-ND◆	3.38	2.70	2.10	—	—	—
8	SOP	100	600	5	5	80	2,500	TLP280-4GB-ND	2.13	1.70	1.28	—	—	—
	SOP	100	600	5	5	80	2,500	TLP280-4GBF-ND◆	1.83	1.46	1.10	—	—	—
	SOP	100	600	5	5	80	2,500	TLP280-4GBFCT-ND◆†	1.83	1.46	1.10	TLP280-4GBFTR-ND◆	2,500	934.40/M
9	SOP	100	600	5	5	80	2,500	TLP280GBF-ND◆	.83	.67	.50	—	—	—
	SOP	100	600	5	5	80	2,500	TLP280GBFCT-ND◆†	.74	.56	.42	TLP280GBFTR-ND◆	2,500	240.50/M
10	SOP	100	600	5	5	80	2,500	TLP281-4GBFCT-ND◆†	1.60	1.28	.96	TLP281-4GBFTR-ND◆	2,500	819.20/M
	SOP	50	600	5	5	80	2,500	TLP281-4JFCT-ND◆† ***NEW!***	1.60	1.28	.96	TLP281-4JFTR-ND◆ ***NEW!***	2,500	819.20/M
11	SOP	100	600	5	5	80	2,500	TLP281GBFCT-ND◆†	.66	.50	.38	TLP281GBFTR-ND◆	2,500	214.50/M
	SOP	50	600	5	5	80	2,500	TLP281GRF-ND◆	.69	.52	.39	—	—	—
	SMD	100	400	1	5	100	2,500	TLP283-ND	.80	.60	.45	—	—	—
	SMD	100	400	1	5	100	2,500	TLP283F-ND◆	.66	.50	.38	—	—	—
	Dip	100	300	5	5	80	5,000	TLP421GR-ND◆	.50	.40	.30	—	—	—
	SMD	100	300	5	5	80	5,000	TLP421GRTP1CT-ND◆†	.55	.44	.33	—	—	—
	Dip	50	600	60	—	80	5,000	TLP421-ND◆	.49	.39	.30	—	—	—
	Dip	200	600	60	—	80	5,000	TLP421BL-ND◆	.49	.40	.30	—	—	—
	Dip	200	600	5	5	80	10,000	TLP781BLF-ND◆ ***NEW!***	.51	.41	.31	—	—	—
	Dip	100	300	5	5	80	10,000	TLP781D4-GRF-ND◆ ***NEW!***	.45	.36	.27	—	—	—
	Dip	50	600	5	5	80	10,000	TLP781F-ND◆ ***NEW!***	.45	.36	.27	—	—	—
	Dip	100	600	5	5	80	10,000	TLP781GBF-ND◆ ***NEW!***	.50	.40	.30	—	—	—
	SMD	100	600	5	5	80	10,000	TLP781GB-LF6FCT-ND◆† ***NEW!***	.51	.41	—	TLP781GB-LF6FTR-ND◆ ***NEW!***	100	30.60
	SMD	100	600	5	5	80	10,000	TLP781GB-TP6FCT-ND◆† ***NEW!***	.45	.36	.27	TLP781GB-TP6FTR-ND◆ ***NEW!***	2,000	126.00/M
	Dip	100	300	5	5	80	10,000	TLP781GRF-ND◆ ***NEW!***	.50	.40	.30	—	—	—
	Dip	100	200	5	5	80	10,000	TLP781GRLF-ND◆ ***NEW!***	.51	.41	.31	—	—	—
	SMD	100	300	5	5	80	10,000	TLP781GR-LF6FCT-ND◆† ***NEW!***	.46	.37	—	TLP781GR-LF6FTR-ND◆ ***NEW!***	100	27.30
	SMD	100	300	5	5	80	10,000	TLP781GR-TP6FCT-ND◆† ***NEW!***	.51	.41	.31	TLP781GR-TP6FTR-ND◆ ***NEW!***	2,000	141.40/M
	Dip	100	300	5	5	80	10,000	TLP781FGRF-ND◆ ***NEW!***	.51	.41	.31	—	—	—
12	Dip	50	600	5	5	55	2,500	TLP504AF-ND◆	1.26	1.05	.84	—	—	—
	Dip	50	600	5	5	55	2,500	TLP504AGBF-ND◆	1.26	1.05	.84	—	—	—
13	Dip	50	600	5	5	55	2,500	TLP504A-2F-ND◆	2.10	1.68	1.26	—	—	—
	Dip	100	600	5	5	55	2,500	TLP504A-2GBF-ND◆	2.10	1.68	1.26	—	—	—
14	SMD	50	600	5	5	80	3,750	TLP180FCT-ND◆†	.68	.51	.39	TLP180FTR-ND◆	3,000	221.00/M
	SMD	100	600	5	5	80	3,750	TLP180GBFT-ND◆	.80	.60	.45	—	—	—
	SMD	100	600	5	5	80	3,750	TLP180GBTPLFCT-ND◆†	.68	.51	.39	TLP180GBTPLTR-ND◆	3,000	221.00/M
	SMD	100	1,200	±1	0.5	80	3,750	TLP126F-ND◆	.90	.75	.60	—	—	—
	SMD	100	1,200	±1	0.5	80	3,750	TLP126TPRFCT-ND◆†	.90	.75	.60	TLP126TPRFTR-ND◆	3,000	390.00/M
15	SMD	100	600	±5	5	80	3,750	TLP130GB-ND	1.13	.94	.75	—	—	—
	SMD	100	600	±5	5	80	3,750	TLP130GBFCT-ND◆†	1.13	.94	.75	TLP130GBFTR-ND◆	3,000	487.50/M

◆ ***RoHS Compliant*** § VDE Approved † Cut Tape

Fig. 1

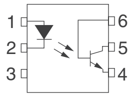

Fig. 2

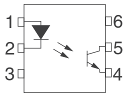

No Base Connection

Fig. 3

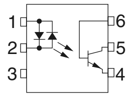

Fig. 4

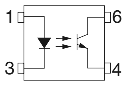

Fig. 5

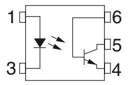

Fig. 6

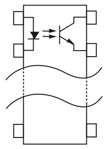

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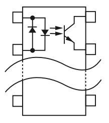

Fig. 8

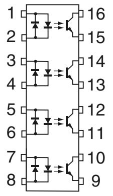

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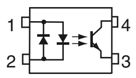

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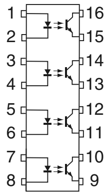

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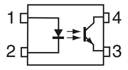

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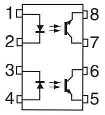

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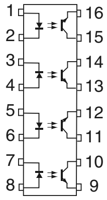

Fig. 14

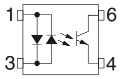

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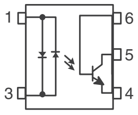

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TOSHIBA

Darlington Transistor Output

RoHS COMPLIANT

Fig.	Pkg.	Current Transfer Ratio Min. (%)	Current Transfer Ratio @IF (mA)	Current Transfer Ratio VCE (V)	Saturation Voltage Max. (V)	Saturation Voltage @IC (mA)	Saturation Voltage @IF (mA)	Collector Break-down V(BR)	Iso-lation Volt.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing
1	Dip	500	10	10	1	2	8	30	2,500	4N32SHORTF-ND	.72	.54	.41	—	—	—
		1,000	1	1	1.2	100	10	300	5,000	TLP371F-N	.81	.68	.54	—	—	—
2	SMD	1,000	1	1	1.2	100	10	300	5,000	TLP371TP1FCT-ND†	.87	.73	.58	TLP371TP1FTR-ND	1,500	385.70/M
3	Dip	1,000	1	1	1.2	100	10	300	5,000	TLP372F-ND	.90	.75	.60	—	—	—
4	Dip	1,000	1	1	1.2	100	10	300	5,000	TLP627F-ND	.80	.60	.45	—	—	—
		1,000	1	1	1.2	100	10	300	5,000	TLP627-2F-ND	1.44	1.20	.96	—	—	—
		1,000	1	1	1.2	100	10	300	5,000	TLP627-4F-ND	2.70	2.25	1.89	—	—	—
	SMD*	1,000	1	1	1.2	100	10	300	5,000	TLP627TP1FCT-ND†	.84	.63	.48	TLP627TP1FTR-ND	1,000	279.30
5	SMD	1,000	1	1	1.2	100	10	300	2,500	TLP127FCT-ND†	.84	.70	.56	TLP127FTR-ND	3,000	364.00/M

† Cut Tape   * Lead form SMD

Fig. 1

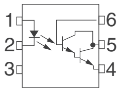

Fig. 2

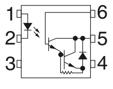

Fig. 3

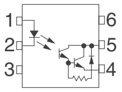

No Base Connection

Fig. 4

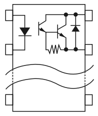

Fig. 5

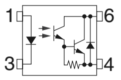

Thyristor Output Optoisolators

Fig.	Pkg.	LED Trigger Current Max. (mA)	dv/dt Typical (V/µs)	Blocking Voltage	Isolation Voltage	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
1	Dip	7	10	400	2,500	TLP541GNF-ND◆	.90	.75	.60	—	—	—
	Dip	10	10	600	4,000	TLP741JNF-ND◆‡	1.26	1.05	.84	—	—	—
	Dip	10	10	400	4,000	TLP741GD4NF-ND◆	1.13	.95	.76	—	—	—
	Dip	10	10	400	4,000	TLP741GNF-ND◆	1.03	.86	.69	—	—	—
2	SMD	10	500	600	2,500	TLP160JFCT-ND◆†	1.08	.90	.72	TLP160JFTR-ND◆	3,000	468.00/M
	SMD	10	500	600	2,500	TLP160JUF-ND◆	1.31	1.14	.88	—	—	—
	Dip	5	500	400	5,000	TLP3023SFT-ND◆	.92	.69	.52	—	—	—
	SMD	10	500	400	2,500	TLP160GFCT-ND◆†	1.02	.85	.68	TLP160GFTR-ND◆	3,000	442.00/M
	SOP	10	500	600	3,000	TLP260JTPRFCT-ND◆†	.90	.75	.60	TLP260JTPRFTR-ND◆	3,000	390.00/M
	Dip	10	500	600	5,000	TLP3052SF-ND◆	.75	.63	.50	—	—	—
	SMD	10	500	400	2,500	TLP161GF-ND◆	.90	.75	.60	—	—	—
	SMD	10	500	600	2,500	TLP161JF-ND◆	.90	.75	.60	—	—	—
	SMD	10	500	600	2,500	TLP161JFCT-ND◆†	.90	.75	.60	TLP161JFTR-ND◆	3,000	390.00/M
	Dip	10	500	400	5,000	TLP3042SF-ND◆#	.92	.69	.52	—	—	—
	Dip	5	500	400	5,000	TLP3043S-ND#	.96	.72	.54	—	—	—
	Dip	5	500	400	5,000	TLP3043SF-ND◆#	.96	.72	.54	—	—	—
	Dip	10	500	600	5,000	TLP3062SCFT-ND◆#	.78	.65	.52	—	—	—
3	SMD	3	500	600	2,500	TLP168JFCT-ND◆†	1.29	1.08	.86	TLP168JFTR-ND◆	3,000	559.00/M
4	SMD	10	10	400	2,500	TLP141GUF-ND◆	1.69	1.47	1.13	—	—	—
5	Dip	10	500	400	2,500	TLP525GF-ND◆	.90	.75	.60	—	—	—
	Dip	10	500	400	2,500	TLP525G-2F-ND◆	1.50	1.20	.90	—	—	—
	Dip	10	500	600	5,000	TLP360J-ND◆	.81	.68	.54	—	—	—
	Dip	10	500	600	5,000	TLP360JF-ND◆	.81	.68	.54	—	—	—
	Dip	10	500	600	5,000	TLP361JF-ND◆	.87	.73	.58	—	—	—
6	Dip	10	500	400	5,000	TLP3022SFT-ND◆	.88	.66	.50	—	—	—
	SMD*	5	500	400	5,000	TLP3023TP1SFCT-ND◆†	.96	.72	.54	TLP3023TP1SFTR-ND◆	1,500	319.20/M
	Dip	10	500	600	5,000	TLP3052D4SFT-ND◆	.81	.68	.54	—	—	—
	Dip	5	500	600	5,000	TLP3063SF-ND◆#	.81	.68	.54	—	—	—
	SMD	5	500	600	5,000	TLP3063TP1SFCT-ND◆#†	.84	.70	.56	TLP3063TP1SFTR-ND#◆	1,500	372.40/M
	Dip	3	500	600	5,000	TLP3064D4T1SCFCT-ND◆#†	1.14	.95	.76	TLP3064D4T1SCFTR-ND#◆	1,500	505.40/M
	Dip	3	500	600	5,000	TLP3064SCFT-ND◆#	1.19	.99	.79	—	—	—
	Dip	3	500	600	5,000	TLP3064SCFCT-ND◆#†	1.19	.99	.79	TLP3064SCFTR-ND#◆	1,500	525.36/M

◆ ***RoHS Compliant***   § VDE Approved   † Cut Tape   # Zero Crossing   ‡ SCR Output   * Lead form SMD

Fig. 1

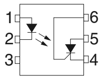

Fig. 2

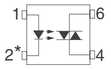

* Pin 3 for TLP160 and TLP260

Fig. 3

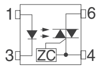

Fig. 4

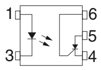

Fig. 5

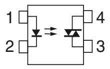

Fig. 6

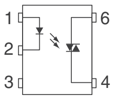

TOSHIBA High Speed Output Optoisolators

Fig.	Pkg.	Output Current Min. (mA)	Output Current @IF (mA)	Output Current @VO (V)	Data Rate Typical (bit/s)	Max. Supply Voltage (V)	Isolation Volt. (Vrms)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
1	Dip	1.12	16	0.4	1M	15	2,500	TLP2530F-ND◆	2.70	2.16	1.68	—	—	—
	Dip	3.04	16	0.4	1M	15	2,500	TLP2531F-ND◆	2.70	2.16	1.68	—	—	—
2	Dip	16	5	0.6	10M	5.5	2,500	TLP2630F-ND◆	2.25	1.80	1.40	—	—	—
	Dip	13	5	0.6	10M	5.5	2,500	TLP2631F-ND◆	2.25	1.80	1.40	—	—	—
	SMD*	13	5	0.6	10M	5.5	2,500	TLP2631TP1FCT-ND†◆	2.36	1.89	1.47	TLP2631TP1FTR-ND◆	1,500	1338.76/M
3	SMD	1.6	16	0.4	1M	15	2,500	TLP112-ND◆	1.61	1.29	.97	—	—	—
	SMD	1.6	16	0.4	1M	15	2,500	TLP112FCT-ND†◆	1.61	1.29	.97	TLP112FTR-ND◆	3,000	825.60/M
4	SMD	1.6	16	0.4	1M	15	2,500	TLP112AFCT-ND†◆	1.80	1.44	1.08	TLP112AFTR-ND	3,000	921.60/M
5	SMD	13	10	0.4	10M	5.5	2,500	TLP113CT-ND†	1.75	1.40	1.05	—	—	—
	SMD	13	10	0.4	10M	5.5	2,500	TLP113FCT-ND†◆	1.75	1.40	1.05	TLP113FTR-ND◆	3,000	896.00/M
	SMD	13	10	0.4	10M	5.5	2,500	TLP115FCT-ND†◆	2.76	2.21	1.72	—	—	—
	SMD	13	5	0.4	10M	5.5	2,500	TLP115AF-ND◆	3.78	3.29	2.45	—	—	—
	SMD	13	5	0.4	10M	5.5	2,500	TLP115AFCT-ND†◆	7.21	5.77	4.33	TLP115AFTR-ND◆	3,000	1844.00/M
6	Dip	1.6	16	0.4	1M	15	2,500	TLP550-ND	1.38	1.10	.83	—	—	—
	Dip	1.6	16	0.4	1M	15	2,500	TLP550F-ND◆	1.38	1.10	.83	—	—	—
7	Dip	3.2	16	0.4	1M	15	2,500	TLP559F-ND◆	1.88	1.50	1.13	—	—	—
8	Dip	1.12	16	0.4	1M	15	2,500	6N135TF-ND◆	1.20	1.00	.80	—	—	—
	Dip	3.04	16	0.4	1M	15	2,500	6N136TF-ND◆	.96	.80	.64	—	—	—
9	Dip	13	5	0.6	10M	5.5	2,500	6N137TF-ND◆	.96	.80	.64	—	—	—
	Dip	13	5	0.6	10M	5.5	2,500	TLP2601F-ND◆	2.00	1.60	1.20	—	—	—
	SMD	13	5	0.6	10M	5.5	2,500	TLP2601TP1CT-ND†	2.25	1.80	1.40	—	—	—
10	Dip	4.8	1.6	0.4	100K	18	2,500	6N138TF-ND◆	1.08	.90	.72	—	—	—
	Dip	2	0.5	0.4	100K	18	2,500	6N139TF-ND◆	.96	.80	.64	—	—	—
11	Dip	25	1.6	0.5	5M	20	2,500	TLP558-ND	3.60	2.88	2.24	—	—	—
	Dip	25	1.6	0.5	5M	20	2,500	TLP558F-ND◆	3.60	2.88	2.24	—	—	—
12	Dip	25	1.6	0.5	5M	20	2,500	TLP2200-ND◆	2.48	1.98	1.54	—	—	—
	Dip	25	1.6	0.5	5M	20	2,500	TLP2200F-ND◆	2.48	1.98	1.54	—	—	—
	SOP	25	1.6	0.5	5M	20	2,500	TLP2200CT-ND†	2.64	2.11	1.65	TLP2200TR-ND	1,500	1494.30/M
	SOP	25	1.6	0.5	5M	20	2,500	TLP2200FCT-ND†◆	2.64	2.11	1.65	TLP2200FTR-ND◆	1,500	1494.30/M

† Cut Tape ◆ ***RoHS Compliant*** * Lead form SMD

Fig. 1

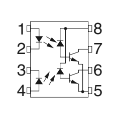

Fig. 2

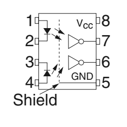

Fig. 3

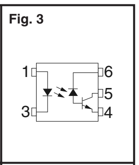

Fig. 4

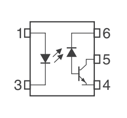

Fig. 5

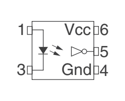

Fig. 6

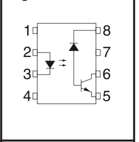

Fig. 7

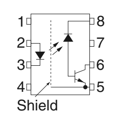

Fig. 8

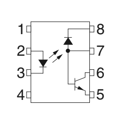

Fig. 9

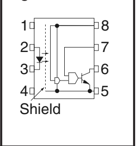

Fig. 10

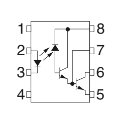

Fig. 11

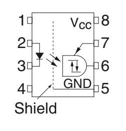

Fig. 12

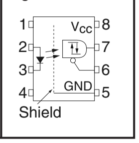

Photovoltaic Couplers

Fig. 1

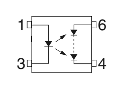

Fig. 2

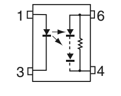

Fig.	Pkg.	Short Current Min. (uA)	Short Current @IF (mA)	Open Voltage Typ. (V)	Switching Time (@UF=20 mA, CL=1000pF) T on (ms)	Switching Time (@UF=20 mA, CL=1000pF) T off (ms)	Isolation Voltage (VRMS)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
1	MFSOP	12	10	8.0	0.2	2.0	2,500	TLP190BF-ND	2.48	1.98	1.54	—	—	—
		12	10	8.0	0.2	2.0	2,500	TLP190BUCFCT-ND†	2.48	1.98	1.54	TLP190BUCFTR-ND	3,000	1386.00/M
2	MFSOP	24	20	8.0	0.2	2.0	2,500	TLP191BF-ND	2.70	2.16	1.68	—	—	—
		24	20	8.0	0.2	2.0	2,500	TLP191BFCT-ND†	2.70	2.16	1.68	TLP191BFTR-ND	3,000	1512.00/M

† Cut Tape

Industrial Optoisolators

Features: • Isolation Voltage: 3,750 VRMS • Operating Temperature: -40°C ~ 100°C

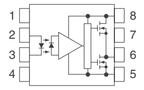

1. NC
2. Anode
3. Cathode
4. NC
5. GND
6. VO
7. NC
8. VCC

Pkg.	Input Current Min. (μA)	Input Current Max. (mA)	Forward Voltage	Oper. Frequency	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing
SMD	7.5	10	1.60	50kHz	TLP350TP1FCT-ND	2.38	1.90	1.43	TLP350TP1FTR-ND	1,500	1235.00/M
Dip	7.5	10	1.60	50kHz	TLP350F-ND	2.38	1.90	1.43	—	—	—

Power Transistor Outputs

Fig. 1

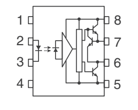

Fig. 2

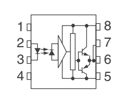

Fig. 3

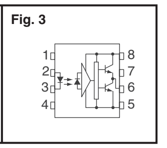

Fig.	Pkg.	Output Current IO (A)	Output Current @IF (mA)	Propagation Delay Typical (μs)	Maximum Supply Voltage (V)	Isolation Voltage (VDRM)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Digi-Key Part No.	Tape and Reel Pricing 1,500
1	Dip	±0.32	5.0	1	16	2,500	TLP557F-ND	1.80	1.44	1.08	—	—
2	Dip	±0.5	5.0	0.2	35	2,500	TLP250F-ND	1.88	1.50	1.13	—	—
	SMD	±1.5	5.0	0.15 @ 8mA	35	2,500	TLP250LF1F-ND	2.25	1.80	1.35	—	—
	Dip	±1.5	5.0	0.15 @ 8mA	35	2,500	TLP250TP1FCT-ND†	2.00	1.60	1.20	TLP250TP1FTR-ND	1040.00/M
3	SMD	±0.4	5.0	0.25 @ 8mA	35	2,500	TLP251FCT-ND†	1.88	1.50	1.13	TLP251FTR-ND	975.00/M
	Dip	±0.4	5.0	0.25 @ 8mA	35	2,500	TLP251F-ND	1.75	1.40	1.05	—	—

† Cut Tape

IRED SMT Photocouplers

Fig. 1

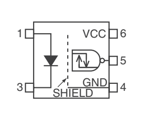

Fig. 2

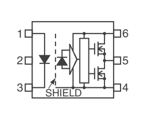

Fig. 3

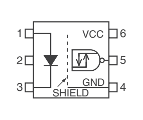

Fig. 4

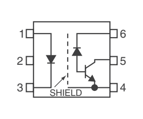

Toshiba's IRED SMT Photocouplers consist of a GaAℓAs light-emitting diode and an integrated high-gain, high-speed photodetector.

TLP102, TLP106: Suitable for isolating input control signals to intelligent power modules, have a built-in Schmitt trigger and have common-mode transient immunity of 10 kV/μs.

TLP116: Intended for digital isolation in A/D and D/A converters, high-speed line receivers, microprocessor system interfaces, and plasma display panels.

TLP701, TLP705: Suitable for gate driving circuits for IGBTs or power MOSFETs. Capable of "direct" gate driving of low-power IGBTs.

TLP706: Buffer logic type. For inverter logic, the TPL702 is in line-up.

TLP702: Inverter logic type. For buffer logic, the TPL706 is in line-up.

TLP716: 50% smaller than the 8PIN DIP and has suited the safety standard reinforced insulation class, so mounting area in safety standard required equipment can be reduced.

TLP719: Has a Faraday shield integrated on the photodetector chip to provide an effective common mode noise transient immunity. It is also suitable for application in noisy environmental conditions.

Fig.	Description	Data Rate (NRZ) (typ.)	Current Transfer Ratio	Isolation Voltage BVs @1min. (VDRM)	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Tape & Reel† Qty.	Tape & Reel† Pricing	Toshiba Part No.
1	Inverter Logic Type (totem pole output)	250ns	For buffer logic type, TLP106 is in line-up	3,750	MFSOP-6	TLP102FCT-ND	2.00	1.60	1.20	3,000	1024.00/M	TLP102 (TRP,F)
	Buffer Logic Type (totem pole output)	250ns	For inverter logic type, TLP102 is in line-up	3,750	MFSOP-6	TLP106FCT-ND	2.00	1.60	1.20	3,000	1024.00/M	TLP106 (TRP,F)
	High Speed	20MBd	Inverter logic (totem pole output)	3,750	MFSOP-6	TLP116FCT-ND‡	3.38	2.70	2.10	3,000	1890.00/M	TLP116 (TPR,F)
2	Low Power IGBT/MOSFET Direct Drive	0.21¼s	Peak +/-0.6A (maximum)	5,000	6-SMD	TLP701FCT-ND‡	1.90	1.52	1.14	1,500	988.00/M	TLP701 (TP,F)
	Low Power IGBT/MOSFET Direct Drive	100ns	Peak +/-0.45A (maximum)	5,000	6-SMD	TLP705FCT-ND‡	2.20	1.76	1.32	1,500	1144.00/M	TLP705 (TP,F)
3	Buffer Logic Type (totem pole output)	250ns	IFHL=5mA (max), For inverter logic type, TLP702 is in line-up	5,000	6-SMD	TLP706FCT-ND‡◊	1.80	1.44	1.08	1,500	936.00/M	TLP706 (TP,F)
	Inverter Logic Type (totem pole output)	250ns	IFHL=5mA (max), For buffer logic type, TLP706 is in line-up	5,000	6-SMD	TLP702FCT-ND‡	1.80	1.44	1.08	1,500	936.00/M	TLP702 (TP,F)
	High Speed	20MBd	—	5,000	6-SMD	TLP716FCT-ND	2.70	2.16	1.68	1,500	1530.00/M	TLP716 (TP,F)
4	High Isolation Voltage	1Mbit/s	20% (minimum) @IF=16mA	5,000	6-SMD	TLP719FCT-ND	1.85	1.48	1.11	1,500	962.00/M	TLP719 (TP,F)

† For Tape and Reel part number, change CT-ND to TR-ND ‡ UL Recognized ◊ Non Inverting Output

Photocoupler - Thyristor Output

Fig.	Input			Output			Isolation Voltage Max. (Vrms)	Package Type	Digi-Key Part No.	Price Each			Sharp Part No.
	Voltage Typ.	Current (mA) Min.	Current (mA) Max.	Voltage VDRM Max.	Current IT (RMS) Max. (mA)	Holding Current Max. (mA)				1	10	100	
Tube													
1	1.2	7	50	600	100	3.5	5,000	6-SMD	425-1365-5-ND	.96	.80	.64	PC3SD11NXZB
		10	50	600	100	3.5	5,000	6-SMD	425-1367-5-ND	.90	.75	.60	PC3SD12NXZA
		10	50	600	100	3.5	5,000	6-Dip	425-1772-5-ND†	1.40	1.12	.93	S21MD3YY
2	1.2	3	50	600	100	3.5	5,000	6-Dip	425-1370-5-ND§	1.08	.90	.72	PC3SD21NTZD
		3	50	600	100	3.5	5,000	6-Dip	425-1373-5-ND§†	1.11	.93	.74	PC3SD21YTZD
		3	50	600	100	3.5	5,000	6-SMD	425-1375-5-ND§†	1.14	.95	.76	PC3SD21YXZD
		5	50	600	100	3.5	5,000	6-SMD	425-1371-5-ND§	.99	.83	.66	PC3SD21NXZC
		5	50	600	100	3.5	5,000	6-SMD	425-1374-5-ND§†	1.02	.85	.68	PC3SD21YXZC
		7	50	600	100	3.5	5,000	6-DipW	425-2587-5-ND◆§†	1.35	1.13	.90	PC3SF21YVZBF
		7	50	600	50	3.5	3,750	4-SMD	425-1301-5-ND†	.93	.78	.62	S2S3RY
		10	50	600	100	3.5	5,000	4-DipW	425-1283-5-ND§	1.47	1.23	.98	S21ME6F
		10	50	600	100	3.5	5,000	4-SMD	425-1285-5-ND§†	1.43	1.14	.95	S21ME6IY
		10	50	600	100	3.5	5,000	6-DipW	425-2586-5-ND◆§†	1.26	1.05	.84	PC3SF21YVZAF
		10	50	600	50	3.5	3,750	4-SMD	425-1303-5-ND§	1.05	.88	.70	S2S4
		3	50	800	100	3.5	5,000	6-Dip	425-1405-5-ND§	1.41	1.18	.94	PC4SD21NTZD
		3	15	800	100	3.5	5,000	6-DipW	425-1288-5-ND§†	2.38	1.90	1.57	S21ME8FY
		3	15	800	100	3.5	5,000	6-Dip	425-1289-5-ND§†	2.48	1.98	1.64	S21ME8Y
		5	50	800	100	3.5	5,000	6-Dip	425-1403-5-ND	1.26	1.05	.84	PC4SD11NTZC
		7	50	800	100	3.5	5,000	6-Dip	425-1402-5-ND	1.17	.98	.78	PC4SD11NTZB
		7	50	800	100	3.5	5,000	6-DipW	425-2593-5-ND◆§†	1.30	1.04	.86	PC4SF21YVZBF
3	1.2	10	50	600	50	3.5	3,750	4-SMD	425-1377-5-ND§	1.53	1.22	1.01	PC3SG21YIZ
4	1.2	10	50	400	100	3.5	5,000	4-Dip	425-1230-5-ND	1.44	1.20	.96	S11ME5
5	1.2	10	50	400	200	1.0	4,000	6-DipW	425-1239-5-ND†	1.70	1.36	1.13	S12ME1FY
		15	50	400	200	1.0	5,000	8-Dip	425-1238-5-ND	2.41	1.98	1.61	S12MD3
		10	50	600	200	1.0	2,500	8-Dip	425-1296-5-ND	2.43	2.00	1.62	S22MD3
6	1.2	7	50	600	100	3.5	5,000	4-DipW	425-2686-5-ND◆†	.81	.68	.54	PC3SH11YFZAF
		7	50	600	100	3.5	5,000	4-DipW	425-2687-5-ND◆§†	.96	.80	.64	PC3SH21YFZBF
7	1.2	7	50	800	100	3.5	5,000	6-Dip	425-2618-5-ND◆§	1.56	1.30	1.04	PC4SF21YTZBF
		3	50	600	100	3.5	5,000	6-Dip	425-2134-5-ND◆§†	1.11	.93	.74	PC3SD21YTZDF
8	1.2	7	50	600	100	3.5	5,000	6-SMD	425-2125-5-ND◆†	.96	.80	.64	PC3SD11NXZBF
		7	50	800	100	3.5	5,000	6-Dip	425-2659-5-ND◆†	1.41	1.18	.94	PC4SF11YTZBF
		7	50	600	100	3.5	5,000	6-Dip	425-2683-5-ND◆†	1.23	1.03	.82	PC3SF11YTZBF
		7	50	600	100	3.5	5,000	6-DipW	425-2684-5-ND◆†	1.17	.98	.78	PC3SF11YVZAF
		7	50	600	100	3.5	5,000	6-DipW	425-2685-5-ND◆†	1.26	1.05	.84	PC3SF11YVZBF
Cut Tape													
2	1.2	7	50	600	100	3.5	5,000	6-SMD	425-1273-1-ND	1.85	1.48	1.11	S21ME3P
		10	50	600	50	3.5	3,750	4-SMD	425-2417-1-ND◆	.84	.70	.56	S2S3B00F
		10	50	600	50	3.5	3,750	4-SMD	425-2422-1-ND◆§†	1.05	.88	.70	S2S4B00F
		10	50	600	50	3.5	3,750	4-SMD	425-1305-1-ND§†	1.05	.88	.70	S2S4BY
4	1.2	10	50	600	100	3.5	5,000	4-SMD	425-1381-1-ND†	1.44	1.20	.96	S21ME5PY
		10	50	600	50	3.5	3,750	4-SMD	425-2563-1-ND◆	.87	.73	.58	S2S3LA0F
6	1.2	10	50	600	50	3.5	3,750	4-SMD	425-2564-1-ND◆§	.78	.65	.52	S2S4A00F
7	1.2	3	50	600	100	3.5	5,000	6-Dip	425-2705-1-ND◆§† ***NEW!***	.90	.75	.60	PC3SD21YXPLF
		3	50	600	100	3.5	5,000	6-Dip	425-2704-1-ND◆§† ***NEW!***	1.20	1.00	.80	PC3SD21YXPDF
		5	50	800	100	3.5	5,000	6-SMD	425-2537-1-ND◆§†	1.41	1.18	.94	PC4SD21YXPCF
		—	50	800	100	3.5	5,000	6-SMD	425-2658-1-ND◆§†	1.47	1.23	.98	PC4SD21YXPDF
		3	50	600	100	3.5	5,000	6-SMD	425-2671-1-ND◆§†	1.38	1.10	.83	PC3SD21YXPEF
8	1.2	10	50	400	100	3.5	5,000	6-SMD	425-2573-1-ND◆	.72	.60	.48	PC2SD11NXPAF

Fig.	Input			Output			Isolation Voltage Max. (Vrms)	Package Type	Digi-Key Part No.	Tape and Reel		Sharp Part No.
	Voltage Typ.	Current (mA) Min.	Current (mA) Max.	Voltage VDRM Max.	Current IT (RMS) Max. (mA)	Holding Current Max. (mA)				Qty.	Pricing	
Tape and Reel												
2	1.2	7	50	600	100	3.5	5,000	6-SMD	425-1273-2-ND	1,000	943.50	S21ME3P
		10	50	600	50	3.5	3,750	4-SMD	425-2417-2-ND◆	750	273.00	S2S3B00F
		10	50	600	50	3.5	3,750	4-SMD	425-2422-2-ND◆§†	750	341.25	S2S4B00F
4	1.2	10	50	600	100	3.5	5,000	4-SMD	425-1381-2-ND†	2,000	624.00/M	S21ME5PY
		10	50	600	50	3.5	3,750	4-SMD	425-2563-2-ND◆	3,000	406.00/M	S2S3LA0F
6	1.2	10	50	600	50	3.5	3,750	4-SMD	425-2564-2-ND◆§	3,000	364.00/M	S2S4A00F
7	1.2	3	50	600	100	3.5	5,000	6-Dip	425-2705-2-ND◆§† ***NEW!***	1,000	390.00	PC3SD21YXPLF
		3	50	600	100	3.5	5,000	6-Dip	425-2704-2-ND◆§† ***NEW!***	1,000	520.00	PC3SD21YXPDF
		5	50	800	100	3.5	5,000	6-SMD	425-2537-2-ND◆§†	1,000	611.00	PC4SD21YXPCF
		—	10µA	800	100	3.5	5,000	6-SMD	425-2658-2-ND◆§†	1,000	686.00	PC4SD21YXPDF
		3	50	600	100	3.5	5,000	6-SMD	425-2671-2-ND◆§†	1,000	715.00	PC3SD21YXPEF
8	1.2	10	50	400	100	3.5	5,000	6-SMD	425-2573-2-ND◆	1,000	336.00	PC2SD11NXPA

◆ ***RoHS Compliant*** § Built-in zero cross circuit † Din/VDE 0884 ◊ VDE 68328

Fig. 1

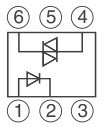

Fig. 2

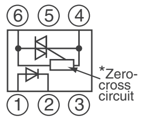

Fig. 3

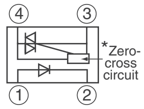

Fig. 4

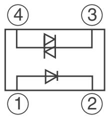

Fig. 5

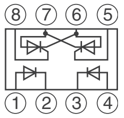

Fig. 6

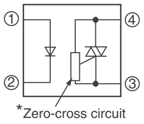

Fig. 7

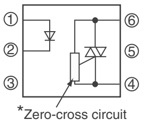

Fig. 8

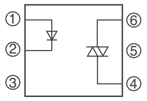

Photocoupler

Fig. 1

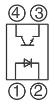

Fig. 2

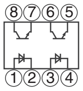

Fig. 3

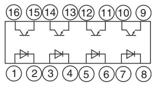

Fig. 4

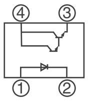

Fig. 5

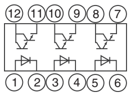

Fig. 6

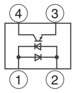

Fig. 7

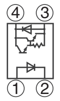

Fig. 8

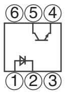

Fig. 9

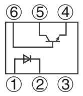

Fig. 10

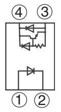

Fig. 11

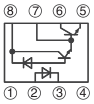

Fig. 12

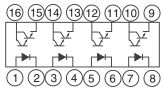

Fig. 13

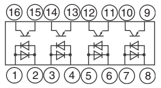

Fig. 14

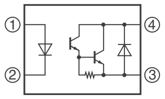

Fig.	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Package Type	Digi-Key Part No.	Tube Price Each			Sharp Part No.
	VCEO (V) Max.	IC (mA) Max.	Min. (%)	Max. (%)	@ IF (mA)	@ Vce (V)				1	10	100	
									Tube				
1	35	50	10	100	1	0.4	5,000	4-SMD	425-1473-5-ND	1.02	.85	.68	PC818I
	35	50	10	100	1	0.4	5,000	4-Dip	425-1475-5-ND*	1.60	1.28	1.06	PC818Y
	35	50	20	200	1	5	5,000	8-Dip	425-1476-5-ND†	2.90	2.39	1.94	PC823
	35	50	60	120	1	0.4	5,000	4-SMD	425-1435-5-ND	1.50	1.25	1.00	PC810AI
	35	50	60	200	1	0.4	5,000	4-SMD	425-1436-5-ND	1.43	1.14	.95	PC810I
	35	50	80	160	5	5	5,000	4-Dip	425-2185-5-ND◆	.48	.33	.24	PC817X1J000F
	35	50	80	160	5	5	5,000	4-SMD	425-2191-5-ND◆	.52	.36	.26	PC817XI1J00F
	35	50	130	260	5	5	5,000	4-SMD	425-2192-5-ND◆	.52	.36	.26	PC817XI2J00F
	70	50	50	150	5	5	5,000	4-Dip	425-1318-5-ND*	.80	.55	.40	PC123Y1
	70	50	50	400	0.5	5	5,000	4-Dip	425-1309-5-ND	.68	.47	.34	PC12310NSZ
	70	50	50	400	5	5	5,000	4-Dip	425-1317-5-ND*	.76	.53	.38	PC123Y
	70	50	50	400	5	5	5,000	4-Dip	425-2571-5-ND◆*	.80	.55	.40	PC123FY2J00F
	70	50	50	400	5	5	5,000	4-Dip	425-2572-5-ND◆*	.63	.53	.42	PC123FY8J00F
	70	50	100	200	0.5	5	5,000	4-Dip	425-1316-5-ND	.76	.53	.38	PC123S
	80	50	100	600	0.5	80	5,000	4-Dip	425-2594-5-ND◆	.64	.44	.32	PC81716NSZ0F
2	80	50	1,000	—	1	0.5	5,000	4-Dip	425-1509-5-ND	.76	.53	.38	PC866
3	80	50	50	600	5	5	5,000	16-Dip	425-2596-5-ND◆	1.47	1.23	.98	PC847X5J000F
	300	50	40	80 Typ.	5	5	5,000	16-Dip	425-1516-5-ND	6.12	5.04	4.08	PC8Q51
4	35	80	600	7,500	1	2	5,000	4-SMD	425-1454-5-ND*#	1.29	1.08	.86	PC815Y
5	35	80	600	7,500	1	2	5,000	12-Dip	425-1489-5-ND*#	2.54	2.10	1.70	PC835Y
7	350	150	1,000	4,000	1	2	5,000	4-Dip	425-2443-5-ND◆*#	.66	.55	.44	PC852XJ0000F
8	35	50	50	600	5	5	5,000	6-Dip	425-1418-5-ND	.76	.53	.38	PC714V0NSZX
	35	50	50	600	5	5	5,000	6-Dip	425-1419-5-ND*	.84	.58	.42	PC714V0YSZX
	35	80	20	80	100	2	5,000	6-Dip	425-1426-5-ND*	.88	.61	.44	PC724V0NSZX
9	35	50	50	600	5	5	5,000	6-Dip	425-1417-5-ND*	.84	.58	.42	PC713V0YSZX
	70	50	40	320	10	5	5,000	6-Dip	425-1414-5-ND	.88	.61	.44	PC703V0NSZX
10	70	30	60	120	5	5	5,000	4-Dip	425-1438-5-ND	.88	.61	.44	PC81101NSZ
	70	30	60	300	5	5	5,000	4-Dip	425-1443-5-ND	.84	.58	.42	PC81108NSZ
	70	30	100	200	5	5	5,000	4-Dip	425-1439-5-ND	.88	.61	.44	PC81102NSZ
	70	30	100	300	5	5	5,000	4-Dip	425-1442-5-ND	.84	.58	.42	PC81106NSZ
	70	30	150	300	5	5	5,000	4-Dip	425-1440-5-ND	.88	.61	.44	PC81103NSZ
11	7VCC	20	300	—	1.6	4.5	2,500	8-Dip	425-1800-5-ND	1.98	1.58	1.31	PC6N138X
12	35	80	50	600	1	2	5,000	16-Dip	425-2595-5-ND◆*#	2.38	1.90	1.57	PC845XJ0000F

Fig.	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Package Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sharp Part No.
	VCEO (V) Max.	IC (mA) Max.	Min. (%)	Max. (%)	@ IF (mA)	@ Vce (V)				1	10	100		Qty.	Pricing	
									Cut Tape/Tape and Reel							
1	35	50	80	160	5	5	3,750	4-SMD	425-1330-1-ND	.51	.43	.34	—	—	—	PC357N1
	80	30	50	600	5	5	3,750	4-SMD	425-2508-1-ND◆	.51	.43	.34	425-2508-2-ND◆	3,000	238.00/M	PC357N0J000F
	35	30	130	260	5	5	3,750	4-SMD	425-2091-1-ND◆	.51	.43	.34	425-2091-2-ND◆	3,000	238.00/M	PC357N2J000F
	35	50	200	400	5	5	3,750	4-SMD	425-1332-1-ND	.51	.43	.34	—	—	—	PC357N3
	35	30	200	400	5	5	3,750	4-SMD	425-2092-1-ND◆	.51	.43	.34	425-2092-2-ND◆	3,000	238.00/M	PC357N3J000F
	80	30	50	600	5	5	3,750	4-SMD	425-2531-1-ND◆	.68	.47	.34	425-2531-2-ND◆	3,000	238.00/M	PC357N6J000F
	80	30	50	600	5	5	3,750	4-SMD	425-2532-1-ND◆	.68	.47	.34	425-2532-2-ND◆	3,000	238.00/M	PC357N7J000F
	80	30	50	600	5	5	3,750	4-SMD	425-2533-1-ND◆	.64	.44	.32	425-2533-2-ND◆	3,000	224.00/M	PC357N9J000F
	70	50	20	400	1	5	2,500	4-SMD	425-2105-1-ND◆	.51	.43	.34	425-2105-2-ND◆	3,000	238.00/M	PC3H4J00000F
	70	50	20	400	1	5	2,500	4-SMD	425-2116-1-ND◆	.45	.38	.30	425-2116-2-ND◆	3,000	210.00/M	PC3H7J00000F
	70	50	50	400	0.5	5	5,000	4-SMD	425-1313-1-ND	.48	.40	.32	425-1313-2-ND	2,000	224.00/M	PC123P
	70	50	200	400	5	5	5,000	4-SMD	425-2530-1-ND◆*	.60	.42	.30	425-2530-2-ND◆*	2,000	112.00/M	PC123X5YUP0F
	70	50	50	400	5	5	5,000	4-SMD	425-1321-1-ND*	.48	.40	.32	425-1321-2-ND*	2,000	224.00/M	PC123ZY2
	70	50	80	160	1	5	2,500	4-SMD	425-1354-1-ND	.51	.43	.34	—	—	—	PC3H7C
	70	50	100	250	0.5	5	5,000	4-SMD	425-1315-1-ND*	.72	.60	.48	—	—	—	PC123PY2
	70	50	100	250	0.5	5	5,000	4-SMD	425-1314-1-ND	.51	.43	.34	—	—	—	PC123P2
	70	50	100	500	0.5	5	3,750	4-SMD	425-2101-1-ND◆	.51	.43	.34	425-2101-2-ND◆	3,000	238.00/M	PC367NJ0000F
	70	50	150	300	0.5	5	3,750	4-SMD	425-2099-1-ND◆	.57	.48	.38	425-2099-2-ND◆	3,000	266.00/M	PC367N1J000F
	70	50	100	600	0.5	5	5,000	4-SMD	425-1383-1-ND	.57	.48	.38	425-1383-2-ND	2,000	266.00/M	PC81710NIP
	70	50	100	600	0.5	5	5,000	4-SMD	425-2176-1-ND◆	.57	.48	.38	425-2176-2-ND◆	2,000	266.00/M	PC81710NIP0F
	70	50	100	700	0.5	5	2,500	4-SMD	425-2108-1-ND◆	.54	.45	.36	425-2108-2-ND◆	3,000	252.00/M	PC3H710NIP0F
	70	50	120	300	0.5	5	5,000	4-SMD	425-1457-1-ND	.60	.50	.40	—	—	—	PC81711NIP
	70	50	140	350	0.5	5	2,500	4-SMD	425-1349-1-ND	.60	.50	.40	—	—	—	PC3H711NIP
	70	50	140	500	0.5	5	2,500	4-SMD	425-1351-1-ND	.60	.50	.40	—	—	—	PC3H715NIP
	70	50	160	400	0.5	5	5,000	4-SMD	425-1459-1-ND	.60	.50	.40	425-1459-2-ND	2,000	280.00/M	PC81712NIP
	80	50	100	600	0.5	5	5,000	4-SMD	425-2538-1-ND◆	.76	.53	.38	425-2538-2-ND◆	2,000	266.00/M	PC81716NIP0F
	70	50	200	500	0.5	5	2,500	4-SMD	425-1350-1-ND	.60	.50	.40	—	—	—	PC3H712NIP

◆ ***RoHS Compliant*** † AC Input # Darlington Output * Din/VDE 0884 ◊ Power dissipation: PC852XI: 200 and PC853XI: 320

(Continued)

SHARP MICROELECTRONICS

Photocoupler *(Cont.)*

Fig.	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Package Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sharp Part No.
	V_{CEO} (V) Max.	I_C (mA) Max.	Min. (%)	Max. (%)	@ I_F (mA)	@ Vce (V)				1	10	100		Qty.	Pricing	
1	350	50	40	80	5	5	5,000	4-SMD	425-2539-1-ND◆	.92	.64	.46	425-2539-2-ND◆	2,000	322.00/M	PC851XPJ000F
	80	50	50	600	5	5	3,750	4-SMD	425-2577-1-ND◆	.60	.50	.40	425-2577-2-ND◆	750	210.00	PC357N0TJ00F
	80	50	50	600	5	5	3,750	4-SMD	425-2578-1-ND◆	.60	.50	.40	425-2578-2-ND◆	750	210.00	PC357N1TJ00F
	80	50	50	600	5	5	3,750	4-SMD	425-2579-1-ND◆	.60	.50	.40	425-2579-2-ND◆	750	210.00	PC357N2TJ00F
	80	50	50	600	5	5	5,000	4-SMD	425-2580-1-ND◆	.60	.50	.40	425-2580-2-ND◆	750	210.00	PC357N4TJ00F
	80	50	50	600	5	5	5,000	4-SMD	425-2581-1-ND◆	.60	.50	.40	425-2581-2-ND◆	750	210.00	PC357N6TJ00F
	80	50	50	600	5	5	5,000	4-SMD	425-2582-1-ND◆	.60	.50	.40	425-2582-2-ND◆	750	210.00	PC357N7TJ00F
	80	50	50	600	5	5	5,000	4-SMD	425-2583-1-ND◆	.60	.50	.40	425-2583-2-ND◆	750	210.00	PC357N9TJ00F
	80	50	100	500	0.5	5	3,750	4-SMD	425-2584-1-ND◆	.54	.45	.36	425-2584-2-ND◆	750	189.00	PC367NTJ000F
	80	50	20	400	1	5	2,500	4-SMD	425-2585-1-ND◆	.48	.40	.32	425-2585-2-ND◆	3,000	224.00/M	PC3H7CDJ000F
4	35	80	600	7,500	1.0	2	3,750	4-SMD	425-1326-1-ND#	.72	.60	.48	—	—	—	PC355N
	35	80	600	7,500	1	2	3,750	4-SMD	425-2576-1-ND◆#	.84	.70	.56	425-2576-2-ND◆#	750	273.00	PC355NTJ000F
	35	80	600	12,000	0.5	2	3,750	4-SMD	425-1337-1-ND#	.60	.50	.40	—	—	—	PC365N
	35	80	600	12,000	0.5	2	2,500	4-SMD	425-2106-1-ND◆#	.69	.58	.46	425-2106-2-ND◆#	3,000	322.00/M	PC3H510NIP0F
6	35	50	50	150	1.0	5	3,750	4-SMD	425-1325-1-ND†	.72	.60	.48	425-1325-2-ND†	3,000	336.00/M	PC354N1
	80	50	20	400	1	5	3,750	4-SMD	425-2574-1-ND◆†	.72	.60	.48	425-2574-2-ND◆†	750	252.00	PC354N1TJ00F
	80	50	20	400	1	5	3,750	4-SMD	425-2575-1-ND◆†	.54	.45	.36	425-2575-2-ND◆†	750	189.00	PC354NTJ000F
	70	50	50	400	0.5	5	3,750	4-SMD	425-1335-1-ND†	.69	.58	.46	—	—	—	PC364N
	70	50	50	400	0.5	5	2,500	4-SMD	425-1342-1-ND†	.69	.58	.46	—	—	—	PC3H410NIP
	70	50	100	300	0.5	5	3,750	4-SMD	425-1336-1-ND†	.72	.60	.48	425-1336-2-ND†	3,000	336.00/M	PC364N1
	70	50	100	300	0.5	5	2,500	4-SMD	425-1343-1-ND†	.69	.58	.46	—	—	—	PC3H411NIP
7	350	150	1,000	12,000	1	2	3,750	4-SMD	425-2591-1-ND◆#	1.93	1.54	1.28	425-2591-2-ND◆#	750	736.31	PC452TJ0000F
	350	150	1,000	4,000	1	2	5,000	4-SMD	425-2660-1-ND◆#	.78	.65	.52	425-2660-2-ND◆#	2,000	364.00/M	PC853XPJ000F
8	35	80	20	80	100	2	5,000	6-SMD	425-1382-1-ND	.78	.65	.52	—	—	—	PC724V0NIPX
13	70	50	50	150	1	5	2,500	4-SMD	425-1344-1-ND†	.54	.45	.36	425-1344-2-ND†	3,000	252.00/M	PC3H4A
14	350	150	1,000	12,000	1	2	5,000	4-SMD	425-2540-1-ND◆*#	.96	.66	.48	425-2540-2-ND◆*#	2,000	336.00/M	PC852XPJ000F

◆ ***RoHS Compliant*** † AC Input # Darlington Output * Din/VDE 0884 ◊ Power dissipation: PC852XI: 200 and PC853XI: 320

OPIC™ Photocoupler

Fig. 1

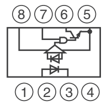

Fig. 2

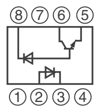

Fig. 3

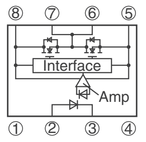

Fig. 4

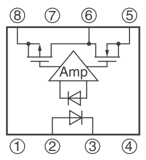

Fig. 5

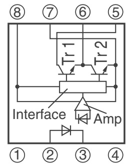

Fig. 6

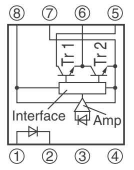

Fig. 7

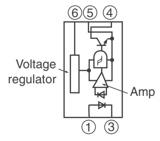

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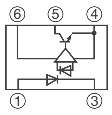

Fig. 9

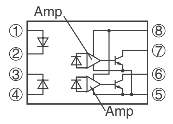

Fig. 10

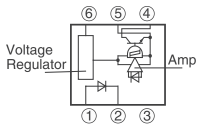

Fig. 11

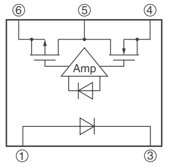

Fig. 12

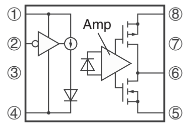

Fig.	Vcc Max. (V)	Prop Delay (µs) Typ.		Isolation Voltage (Vrms)	Dimensions - mm			Package Type	Digi-Key Part No.	Tube Price Each			Sharp Part No.
		H-L	L-H		Length	Width	Pitch			1	10	100	
								Tube					
1	7	0.048	0.05	5,000	9.66	6.5	2.54	8-Dip	425-1534-5-ND*	2.10	1.68	1.39	PC910L0YSZ
	7	0.048	0.05	5,000	9.66	6.5	2.54	8-Dip	425-2208-5-ND◆*	2.10	1.68	1.39	PC910L0YSZ0F
2	30	0.2	0.6	5,000	9.66	6.5	2.54	8-Dip	425-1547-5-ND*	1.84	1.48	1.22	PC957L0YSZ
	30	0.2	0.4	5,000	9.66	6.5	2.54	8-Dip	425-2213-5-ND◆*	1.84	1.48	1.22	PC957L0YSZ0F
3	35	0.3	0.3	5,000	9.66	6.5	2.54	8-Dip	425-2542-5-ND◆	2.01	1.61	1.33	PC925L0NSZ0F
4	6	0.06	0.06	5,000	9.66	6.5	2.54	8-Dip	425-2597-5-ND◆*	2.47	1.98	1.63	PC911L0NSZ0F
5	30	0.5	0.5	5,000	9.66	6.5	2.54	8-Dip	425-2598-5-ND◆*	1.48	1.19	.98	PC923L0NSZ0F
6	30	2.0	2.0	5,000	9.66	6.5	2.54	8-Dip	425-2599-5-ND◆*	1.30	1.04	.86	PC924L0NSZ0F

Fig.	Vcc Max. (V)	Prop Delay Typ. (µs)		Isolation Voltage (Vrms)	Dimensions - mm			Package Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sharp Part No.
		H-L	L-H		Length	Width	Pitch			1	10	100		Qty.	Pricing	
								Cut Tape/Tape and Reel								
1	7	0.048	0.05	3,750	5.080	3.937	1.27	8-SMD	425-2534-1-ND◆*	2.38	1.90	1.57	425-2534-2-ND◆*	1,500	1329.30/M	PC410S0NIP0F
2	30	0.3	0.3	3,750	5.080	3.937	1.27	8-SMD	425-2535-1-ND◆*	1.68	1.35	1.12	425-2535-2-ND◆*	1,500	858.72/M	PC457S0NIP0F
7	15	2.0	1.0	3,750	3.6	4.4	1.27	5-SOP	425-1521-1-ND	1.70	1.36	1.02	425-1521-2-ND	3,000	867.00/M	PC401
	15	2.0	1.0	3,750	3.6	4.4	1.27	5-SOP	425-2143-1-ND◆	1.70	1.36	1.02	425-2143-2-ND◆	3,000	867.00/M	PC401J00000F
8	7	0.048	0.05	3,750	3.6	4.4	1.27	5-SOP	425-2141-1-ND◆	1.75	1.40	1.05	425-2141-2-ND◆	3,000	892.50/M	PC410L0NIP0F
	35	.21	0.4	3,750	3.6	4.4	1.27	5-SMD	425-2592-1-ND◆*	1.89	1.52	1.25	425-2592-2-ND◆*	3,000	965.31/M	PC456L0NIP0F
9	7	0.048	0.05	3,750	5.080	3.937	1.27	8-SMD	425-2536-1-ND◆*	3.31	2.73	2.21	425-2536-2-ND◆*	1,500	1865.00/M	PC4D10SNIP0F
10	16	1.0	2.0	5,000	7.12	6.5	2.54	6-SMD	425-2541-1-ND◆*	1.23	1.03	.82	425-2541-2-ND◆*	1,000	533.00	PC900V0NIPXF
11	6.0	0.027	0.035	3,750	3.6	4.4	1.27	5-SMD	425-2588-1-ND◆*	2.14	1.87	1.50	425-2588-2-ND◆*	3,000	1309.28/M	PC411L0NIP0F
	6.0	0.027	0.035	3,750	3.6	4.4	1.27	5-SMD	425-2589-1-ND◆*	2.24	1.97	1.58	425-2589-2-ND◆*	3,000	1419.95/M	PC411L0YIP0F
12	5.5	0.023	0.022	3,750	5.080	3.937	1.27	8-SMD	425-2590-1-ND◆*	2.64	2.31	1.85	425-2590-2-ND◆*	3,000	1617.00/M	PC412S0NIP0F

◆ ***RoHS Compliant*** * Din/VDE 0884

NVE CORPORATION

IsoLoop® High Performance Digital Isolators

IsoLoop digital isolators from NVE are superior performance alternatives to traditional opto-couplers or optoisolators. These highly integrated devices deliver up to 100MBd of data per channel with only 2ns Pulse Width Distortion. They are available in single, dual and quad channel form factors. IsoLoop bus isolators offer the designer highly compact, isolated RS 485 and RS 422 compliant devices. These high-speed products are ideal for many industrial communication applications, including PROFIBUS.

Features:

IL260E, IL261, IL261E, and IL262E: • 3.3V/5V CMOS/TTL Compatible • 110Mbps Data Rate • 2500Vrms Isolation (1 minute) • 2ns Typical Pulse Width Distortion • 10ns Typical Propagation Delay • 30k/Vµs Typical Transient Immunity

IL3185E and IL3122E: • 5Mbps Data Rate • 2500Vrms Isolation (1 minute) • 10ns Typical Propagation Delay

IL3285E and IL3222E: • 1Mbps Data Rate • 5ns Pulse Skew • 2500Vrms Isolation (1 minute) • 40ns Typical Propagation Delay • 20k/Vµs Typical Transient Immunity

IL3485E and IL3422E: • 20Mbps Data Rate • 2500Vrms Isolation (1 minute) • 10ns Typical Propagation Delay

IL422E: • 2500Vrms Isolation (1 minute) • 25ns Propagation Delay • 25MBd Data Rate • 1ns Pulse Skew • ±60mA Driver Output Capability • Thermal Shutdown Protection • Meets or Exceeds EIA 422-B, EIA 485-A and ITU Recommendation VII • UL 1577 Approval (pending)

IL485E, IL485W, and IL485WE: • 35MBd Data Rate • 25ns Propagation Delay • 2500Vrms Isolation (1 minute)

IL610, IL610E, IL611E, IL612E, IL613E, and IL614E: • 40Mbps Data Rate • Open Drain or CMOS Outputs • Low Power Dissipation • Failsafe Output (Logic high output for zero coil current)

IL610A, IL610AE IL611AE, and IL612AE: • 10Mbps Data Rate • Open Drain or CMOS Outputs • Low Power Dissipation • Failsafe Output (Logic high output for zero coil current)

IL710, IL710E, IL710T, IL711, IL711E, IL711T, IL712E, and IL712T: • 100-110MBd Data Rate • 2ns Typical Pulse Width Distortion • 10ns Typical Propagation Delay • 30kV/µs Transient Immunity • 2500Vrms Isolation (1 minute)

IL715, IL715E, IL715T, IL716, IL716E, IL716T, IL717, IL717E, and IL717T: • 100MBd Data Rate; T-Series: 110MBd Data Rate • 2ns Typical Pulse Width Distortion • 10ns Typical Propagation Delay • 30kV/µs Transient Immunity; T-Series: 30kV/µs Transient Immunity • 2500Vrms Isolation (1 minute)

IL3585 and IL3585E: • 40Mbps Data Rate • 5ns Pulse Skew • 20ns Propagation Delay • 20kV/µs Transient Immunity • 2500Vrms Isolation (1 minute)

Fig. 1

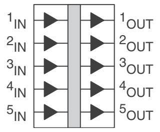

Fig. 2

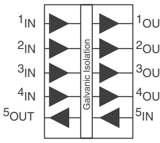

Fig. 3 ***NEW!***

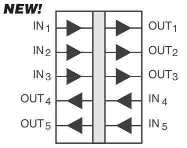

Fig. 4

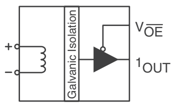

Fig. 5

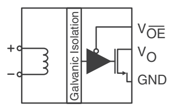

Fig. 6

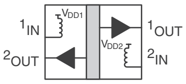

Fig. 7

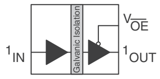

Fig. 8

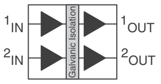

Fig. 9

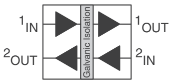

Fig. 10

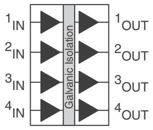

Fig. 11

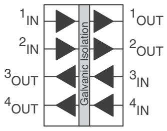

Fig. 12

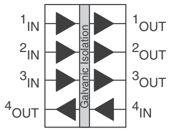

Fig. 13

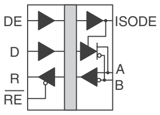

Fig. 14

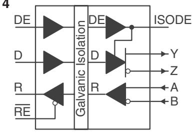

Fig. 15

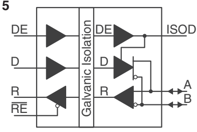

Fig. 16

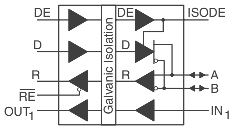

Fig. 17

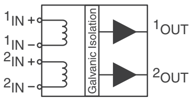

Fig. 18

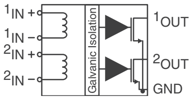

Fig. 19

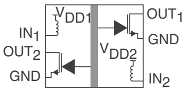

Fig. 20

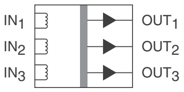

Fig. 21

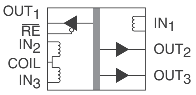

Fig. 22

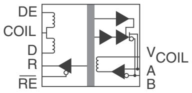

Fig. 23

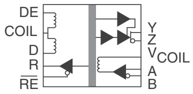

Fig.	Supply Voltage (V)	Package Type	Temperature Range (°C)	Digi-Key Part No.	Price Each				NVE Part No.
					1	10	25	100	
5	3.3/5.0	8-PDIP	-40 ~ 85	390-1023-5-ND	2.76	2.21	1.87	1.66	IL610A-2
8	3.3/5.0	8-SOIC	-40 ~ 100	390-1006-ND	5.86	5.43	4.76	4.13	IL711-3
		8-SOIC	-40 ~ 125	390-1036-5-ND	6.30	5.83	5.14	4.46	IL711T-3
9	3.3/5.0	8-SOIC	-40 ~ 125	390-1037-5-ND	6.30	5.83	5.14	4.46	IL712T-3
10	3.3/5.0	16-SOIC	-40 ~ 100	390-1012-ND	7.70	7.13	6.29	5.45	IL715-3
		16-SOICW	-40 ~ 125	390-1038-5-ND	8.30	7.68	6.73	5.83	IL715T
		16-SOIC	-40 ~ 125	390-1039-5-ND	8.30	7.68	6.73	5.83	IL715T-3
11	3.3/5.0	16-SOIC	-40 ~ 100	390-1013-ND	7.70	7.13	6.29	5.45	IL716-3
		16-SOICW	-40 ~ 125	390-1040-5-ND	8.30	7.68	6.73	5.83	IL716T
12	3.3/5.0	16-SOIC	-40 ~ 100	390-1014-ND	7.70	7.13	6.29	5.45	IL717-3
		16-SOICW	-40 ~ 125	390-1041-5-ND	8.30	7.68	6.73	5.83	IL717T
RoHS Compliant									
1	3.3/5.0	16-SOICW	-40 ~ 85	390-1068-5-ND	8.60	7.96	6.99	6.05	IL260E
		16-SOIC	-40 ~ 85	390-1069-5-ND	8.60	7.96	6.99	6.05	IL260-3E
2	3.3/5.0	16-SOICW	-40 ~ 85	390-1070-5-ND	8.60	7.96	6.99	6.05	IL261E
		16-SOIC	-40 ~ 85	390-1071-5-ND	8.60	7.96	6.99	6.05	IL261-3E
3	3.3/5.0	16-SOICW	-40 ~ 85	390-1115-5-ND ***NEW!***	8.60	7.96	6.99	6.05	IL262E
		16-SOIC	-40 ~ 85	390-1116-5-ND ***NEW!***	8.60	6.99	6.99	6.05	IL262-3E
4	3.3/5.0	8-MSOP	-40 ~ 85	390-1075-5-ND	3.20	2.96	2.60	2.26	IL610-1E
		8-DIP	-40 ~ 85	390-1076-5-ND	3.20	2.96	2.60	2.26	IL610-2E
		8-SOIC	-40 ~ 85	390-1077-5-ND	3.20	2.96	2.60	2.26	IL610-3E
5	3.3/5.0	8-MSOP	-40 ~ 85	390-1078-5-ND	3.00	2.78	2.45	2.12	IL610A-1E
		8-SOIC	-40 ~ 85	390-1080-5-ND	3.00	2.78	2.45	2.12	IL610A-3E
6	3.3/5.0	8-SOIC	-40 ~ 85	390-1088-5-ND	4.80	4.44	3.90	3.38	IL612-3E
7	3.3/5.0	8-MSOP	-40 ~ 100	390-1103-ND	3.60	3.33	2.92	2.53	IL710-1E
		8-DIP	-40 ~ 100	390-1056-5-ND	3.60	3.33	2.92	2.53	IL710-2E
		8-SOIC	-40 ~ 100	390-1057-5-ND	3.60	3.33	2.92	2.53	IL710-3E
		8-MSOP	-40 ~ 100	390-1106-ND	3.90	3.61	3.18	2.75	IL710S-1E
		8-SOIC	-40 ~ 100	390-1107-ND	3.90	3.61	3.18	2.75	IL710S-3E
		8-MSOP	-40 ~ 125	390-1112-ND	3.90	3.61	3.18	2.75	IL710T-1E
		8-SOIC	-40 ~ 125	390-1035-5-ND	3.90	3.61	3.18	2.75	IL710T-3
8	3.3/5.0	8-MSOP	-40 ~ 100	390-1104-ND	5.86	5.43	4.76	4.13	IL711-1E
		8-DIP	-40 ~ 100	390-1058-5-ND	5.86	5.43	4.76	4.13	IL711-2E
		8-SOIC	-40 ~ 100	390-1059-5-ND	5.86	5.43	4.76	4.13	IL711-3E
8	3.3/5.0	8-MSOP	-40 ~ 100	390-1108-ND	6.30	5.83	5.14	4.46	IL711S-1E
		8-SOIC	-40 ~ 100	390-1109-ND	6.30	5.83	5.14	4.46	IL711S-3E
		8-MSOP	-40 ~ 125	390-1113-ND	6.30	5.83	5.14	4.46	IL711T-1E
9	3.3/5.0	8-MSOP	-40 ~ 100	390-1105-ND	5.86	5.43	4.76	4.13	IL712-1E
		8-DIP	-40 ~ 100	390-1060-5-ND	5.86	5.43	4.76	4.13	IL712-2E
		8-SOIC	-40 ~ 100	390-1061-5-ND	5.86	5.43	4.76	4.13	IL712-3E
		8-MSOP	-40 ~ 100	390-1110-ND	6.30	5.83	5.14	4.46	IL712S-1E
		8-SOIC	-40 ~ 100	390-1111-ND	6.30	5.83	5.14	4.46	IL712S-3E
		8-MSOP	-40 ~ 125	390-1114-ND	6.30	5.83	5.14	4.46	IL712T-1E
10	3.3/5.0	16-SOICW	-40 ~ 100	390-1062-5-ND	7.70	7.13	6.29	5.45	IL715E
		16-SOIC	-40 ~ 100	390-1063-5-ND	7.70	7.13	6.29	5.45	IL715-3E
		16-SOIC	-40 ~ 125	390-1102-5-ND	8.30	7.68	6.73	5.83	IL715T-3E
11	3.3/5.0	16-SOICW	-40 ~ 100	390-1064-5-ND	7.70	7.13	6.29	5.45	IL716E
		16-SOIC	-40 ~ 100	390-1065-5-ND	7.70	7.13	6.29	5.45	IL716-3E
12	3.3/5.0	16-SOICW	-40 ~ 100	390-1066-5-ND	7.70	7.13	6.29	5.45	IL717E
		16-SOIC	-40 ~ 100	390-1067-5-ND	7.70	7.13	6.29	5.45	IL717-3E
13	3.3/5.0	16-SOICW	-40 ~ 85	390-1101-5-ND	8.30	7.68	6.73	5.83	IL3585E
14	4.5/5.5	16-SOICW	-40 ~ 85	390-1074-5-ND	12.60	11.66	10.29	8.91	IL422E
15	4.5/5.5	16-SOICW	-40 ~ 85	390-1072-5-ND	12.60	11.66	10.29	8.91	IL485E
16	4.5/5.5	16-SOICW	-40 ~ 85	390-1073-5-ND	12.60	11.66	10.29	8.91	IL485WE
17	3.3/5.0	8-MSOP	-40 ~ 85	390-1081-5-ND	4.80	4.44	3.90	3.38	IL611-1E
		8-DIP	-40 ~ 85	390-1082-5-ND	4.80	4.44	3.90	3.38	IL611-2E
		8-SOIC	-40 ~ 85	390-1083-5-ND	4.80	4.44	3.90	3.38	IL611-3E
18	3.3/5.0	8-MSOP	-40 ~ 85	390-1084-5-ND	3.80	3.52	3.11	2.70	IL611A-1E
		8-SOIC	-40 ~ 85	390-1086-5-ND	3.80	3.52	3.11	2.70	IL611A-3E
19	3.3/5.0	8-DIP	-40 ~ 85	390-1089-5-ND	3.80	3.52	3.11	2.70	IL612A-2E
		8-SOIC	-40 ~ 85	390-1090-5-ND	3.80	3.52	3.11	2.70	IL612A-3E
20	3.3/5.0	16-SOIC	-40 ~ 85	390-1092-5-ND	5.80	5.37	4.26	4.07	IL613-3E
21	3.3/5.0	16-SOICW	-40 ~ 85	390-1093-5-ND	5.80	5.37	4.26	4.07	IL614E
		16-SOIC	-40 ~ 85	390-1094-5-ND	5.80	5.37	4.72	4.12	IL614-3E
22	3.3/5.0	16-SOICW	-40 ~ 85	390-1095-5-ND	5.40	5.00	4.38	3.80	IL3185E
	3.3	16-SOICW	-40 ~ 85	390-1097-5-ND	6.40	5.92	5.21	4.51	IL3285E
23	3.3/5.0	16-SOICW	-40 ~ 85	390-1096-5-ND	5.40	5.00	4.38	3.80	IL3122E
	3.3	16-SOICW	-40 ~ 85	390-1098-5-ND	6.40	5.92	5.21	4.51	IL3222E
	3.3/5.0	16-SOICW	-40 ~ 85	390-1100-5-ND	7.00	6.48	5.72	4.95	IL3422E

AVAGO TECHNOLOGIES

Optocouplers

Phototransistor

Fig.	Package▲	CTR Range (%)	V_{ceo}	Rise/Fall Time (µs)	Isolated Voltage	Digi-Key Part No.		Pricing		Tape & Reel§ Pricing 3,000	Avago Part No.
							1	10	100		
RoHS Compliant											
1	6-DIP	20 ~ N/A	30V	3/3	2,500	516-1556-5-ND	.49	2.79	18.90	—	4N25-000E
		100 ~ N/A	30V	3/3	3,550	516-1557-5-ND	.49	2.79	18.90	—	4N35-000E
		40 ~ 80	70V	5/5	5,000	516-1574-5-ND	.49	2.79	18.90	—	CNY17-1-000E
		63 ~ 125	70V	5/5	5,000	516-1575-5-ND	.49	2.79	18.90	—	CNY17-2-000E
		100 ~ 200	70V	5/5	5,000	516-1576-5-ND	.49	2.79	18.90	—	CNY17-3-000E
		160 ~ 320	70V	5/5	5,000	516-1577-5-ND	.49	2.79	18.90	—	CNY17-4-000E
2	4-SMD	80 ~ 600	80V	4/3	3,750	516-1646-1-ND◊	.46	2.60	17.60	124.00/M	HCPL-181-000E
	4-DIP	50 ~ 600	70V	4/3	5,000	516-1585-5-ND	.40	2.28	15.40	—	HCPL-817-000E

Low Input Current, High Gain

Fig.	Package▲	CTR Range (%)	Supply Voltage	Isolated Voltage	Digi-Key Part No.		Pricing		Tape & Reel§ Pricing 1,500	Avago Part No.
						1	10	100		
3	5-SOIC	400 ~ 3,500	18	3,750	516-1012-5-ND	1.95	15.60	128.70	—	HCPL-M701
5	6-DIP	200 ~ 2,000	7	3,750	516-1021-5-ND	2.03	16.20	133.65	—	4N45
	6-DIP	200 ~ 3,200	20	3,750	516-1022-5-ND	2.43	19.40	160.05	—	4N46
RoHS Compliant										
6	8-DIP	300 ~ 2,600	7	3,750	516-1600-5-ND	1.35	11.25	90.00	—	6N138-000E
	8-SOIC	300 ~ 2,600	7	3,750	516-1636-5-ND	1.48	11.80	97.35	—	HCPL-0700-000E
	8-DIP	500 ~ 5,000	18	3,750	516-1601-5-ND	1.35	11.25	90.00	—	6N139-000E
	8-SOIC	500 ~ 5,000	18	3,750	516-1637-5-ND	1.65	13.20	108.90	—	HCPL-0701-000E
	8-SOIC	500 ~ 5,000	18	3,750	516-1488-1-ND◊	1.70	13.60	112.20	884.00/M	HCPL-0701-500E
	8-DIP(W)	200 ~ 4,500	18	5,000	516-1612-5-ND	2.41	19.80	160.50	—	HCNW139-000E
	8-SMD	200 ~ 4,500	18	5,000	516-1613-5-ND	2.45	20.17	163.50	—	HCNW139-300E
7	8-SOIC	500 ~ 25,000	18	3,750	516-1638-5-ND	2.39	19.61	159.00	—	HCPL-070A-000E
	8-DIP	500 ~ 25,000	18	5,000	516-1681-5-ND	4.86	39.96	324.00	—	HCPL-4731-000E
	8-SOIC	500 ~ 25,000	18	3,750	516-1643-5-ND	6.50	53.47	433.50	—	HCPL-073A-000E
4	8-SOIC	400 ~ 5,000	3.3	3,750	516-1644-5-ND	3.60	29.60	240.00	—	HCPL-073L-000E
	8-DIP	300 ~ 2,600	7	5,000	516-1542-5-ND	2.36	19.43	157.50	—	HCPL-2730-000E
	8-SOIC	300 ~ 2,600	7	3,750	516-1641-5-ND	3.35	27.57	223.50	—	HCPL-0730-000E
	8-DIP	400 ~ 5,000	18	5,000	516-1543-5-ND	2.48	20.35	165.00	—	HCPL-2731-000E
	8-SOIC	400 ~ 5,000	18	3,750	516-1642-5-ND	3.74	30.71	249.00	—	HCPL-0731-000E
	8-SOIC	400 ~ 5,000	18	3,750	516-1535-1-ND◊	3.36	29.40	235.20	2126.88/M	HCPL-0731-500E
5	6-DIP	200 ~ 3,200	20	3,750	516-1596-5-ND	2.43	19.40	160.05	—	4N46-000E

High-Speed

Fig.	Package▲	CTR Range (%)	Supply Voltage	Isolated Voltage	Digi-Key Part No.		Pricing		Tape & Reel§ Pricing 1,500	Avago Part No.
						1	10	100		
9	8-DIP(W)	19 ~ 63	30	5,000	516-1037-5-ND	2.68	22.02	178.50	—	HCNW4504
10	8-SMD	44 ~ 90	30	3,750	516-1039-5-ND	2.38	19.00	156.75	—	HCPL-4506#300
	8-SOIC	44 ~ 90	30	3,750	516-1040-5-ND	2.86	23.50	190.50	—	HCPL-0466
11	8-SOIC	15 ~ 50	30	3,750	516-1047-5-ND	4.79	39.41	319.50	—	HCPL-0534
RoHS Compliant										
8	8-DIP	7 ~ 50	15	3,750	516-1597-5-ND	1.35	11.25	90.00	—	6N135-000E
	8-SOIC	7 ~ 50	30	3,750	516-1630-5-ND	1.30	10.40	85.80	—	HCPL-0500-000E
	8-DIP(W)	5 ~ 50	30	5,000	516-1610-5-ND	1.90	15.20	125.40	—	HCNW135-000E
	8-DIP	19 ~ 50	15	3,750	516-1520-5-ND	1.13	9.00	74.25	—	6N136-000E
	8-SMD	19 ~ 50	15	3,750	516-1598-5-ND	1.41	11.75	94.00	—	6N136-300E
	8-SOIC	15 ~ 50	30	3,750	516-1529-1-ND◊	1.50	12.00	90.00	765.00/M	HCPL-0501-500E
	8-DIP(W)	15 ~ 50	30	5,000	516-1524-5-ND	2.00	16.00	132.00	—	HCNW136-000E
	8-SOIC	15 ~ 50	30	3,750	516-1628-5-ND	1.48	11.80	97.35	—	HCPL-0452-000E
	8-DIP	19 ~ 50	30	3,750	516-1678-5-ND	1.47	12.25	98.00	—	HCPL-4502-000E
	8-DIP(W)	15 ~ 50	30	5,000	516-1525-5-ND	2.00	16.00	132.00	—	HCNW4502-000E
	8-DIP	19 ~ 50	30	3,750	516-1548-5-ND	1.88	15.00	123.75	—	HCPL-4503-000E
	8-SOIC	15 ~ 50	30	3,750	516-1528-5-ND	2.05	16.40	135.30	—	HCPL-0453-000E
	8-DIP(W)	15 ~ 50	30	5,000	516-1620-5-ND	2.41	19.80	160.50	—	HCNW4503-000E
	8-SMD(W)	15 ~ 50	30	5,000	516-1621-5-ND	2.45	20.17	163.50	—	HCNW4503-300E
	8-DIP	15 ~ 22	30	3,750	516-1658-5-ND	2.28	15.40	119.00	—	HCPL-2502-000E
9	8-DIP	26 ~ 65	30	3,750	516-1479-5-ND	2.10	16.80	138.60	—	HCPL-4504-000E
	8-SOIC	26 ~ 65	30	3,750	516-1629-5-ND	2.30	18.40	151.80	—	HCPL-0454-000E
	8-SMD(W)	25 ~ 65	30	5,000	516-1622-5-ND	2.72	22.39	181.50	—	HCNW4504-300E
10	8-DIP	44 ~ 90	30	3,750	516-1549-5-ND	2.33	18.60	153.45	—	HCPL-4506-000E
	8-DIP(W)	44 ~ 90	30	5,000	516-1623-5-ND	2.75	22.57	183.00	—	HCNW4506-000E
	8-SMD(W)	44 ~ 90	30	5,000	516-1624-5-ND	2.79	22.94	186.00	—	HCNW4506-300E

† 8MBd § For Tape and Reel part number, change 1-ND to 2-ND ▲ 8-SMD = PDip Package with Gullwing Leads; (W) = .4 inch row spacing) ◊ Cut Tape ∆ Tape and Reel

Fig. 1

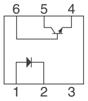

Fig. 2

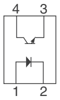

Fig. 3

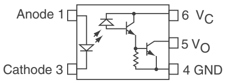

Fig. 4

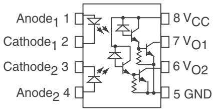

Fig. 5

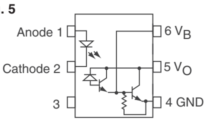

Fig. 6

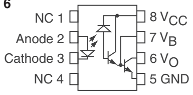

Fig. 7

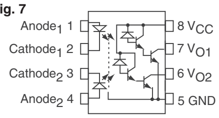

Fig. 8

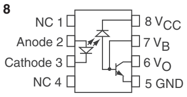

Fig. 9

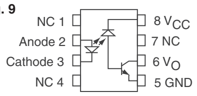

Fig. 10

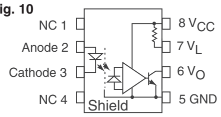

Fig. 11

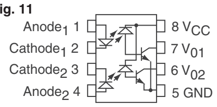

Fig. 12

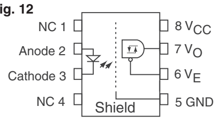

Fig. 13

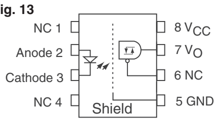

Fig. 14

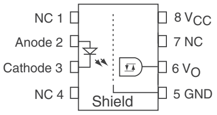

(Continued)

High-Speed *(Cont.)*

Fig.	Package▲	CTR Range (%)	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape & Reel§ Pricing 1,500	Avago Part No.
11	8-DIP	7 ~ 50	30	5,000	516-1659-5-ND	2.10	16.80	138.60	—	HCPL-2530-000E
	8-SOIC	7 ~ 50	30	3,750	516-1631-5-ND	3.04	24.98	202.50	—	HCPL-0530-000E
	8-DIP	19 ~ 50	30	5,000	516-1474-5-ND	2.20	17.60	145.20	—	HCPL-2531-000E
	8-SMD	19 ~ 50	30	5,000	516-1660-5-ND	2.25	18.00	148.50	—	HCPL-2531-300E
	8-SOIC	19 ~ 50	30	3,750	516-1484-1-ND◊	2.84	24.85	198.80	1846.00/M	HCPL-0531-500E
	8-SOIC	19 ~ 50	30	3,750	516-1530-5-ND	3.15	25.90	210.00	—	HCPL-0531-000E
	8-SOIC	15 ~ 50	3.6	3,750	516-1632-5-ND	3.42	28.12	228.00	—	HCPL-053L-000E

High Bandwidth Analog/Video

Fig.	Package▲	CTR % (Typ.)	Bandwidth MHz (Typ.)	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
8	8-DIP(W)	52	9	30	5,000	516-1050-5-ND	2.72	22.39	181.50	HCNW4562
	8-SMD(W)	52	9	30	5,000	516-1051-5-ND	2.77	22.76	184.50	HCNW4562#300
						RoHS Compliant				
8	8-DIP	45	17	30	3,750	516-1679-5-ND	2.32	19.06	154.50	HCPL-4562-000E

Logic Gate - 5MBd, 8MBd

Fig.	Package▲	Common Mode Rejection	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing	Avago Part No.
12	8-SMD	1,000V/µs	20	3,750	516-1054-5-ND	2.54	20.91	169.50	—	—	HCPL-2200#300
13	8-SOIC	1,000V/µs	20	3,750	516-1055-2-NDΔ	—	—	—	1,500	1560.00/M	HCPL-0201#500
	8-SOIC	1,000V/µs	20	3,750	516-1055-5-ND	2.66	21.83	177.00	—	—	HCPL-0201
	8-SOIC	5,000V/µs	20	3,750	516-1056-2-NDΔ	—	—	—	1,500	1794.00/M	HCPL-0211#500
					RoHS Compliant						
12	8-DIP	1,000V/µs	20	3,750	516-1647-5-ND	2.50	20.54	166.50	—	—	HCPL-2200-000E
	8-SMD	1,000V/µs	20	3,750	516-1648-1-ND◊	2.54	20.91	169.50	1,000	1431.00	HCPL-2200-500E
13	8-SOIC	1,000V/µs	20	3,750	516-1483-1-ND◊	2.40	21.00	168.00	1,500	1560.00/M	HCPL-0201-500E
	8-SOIC	1,000V/µs	20	3,750	516-1704-5-ND	2.66	21.83	177.00	—	—	HCPL-0201-000E
	8-SOIC	5,000V/µs	20	3,750	516-1625-5-ND	3.06	25.16	204.00	—	—	HCPL-0211-000E
	8-SOIC	5,000V/µs	20	3,750	516-1526-1-ND◊	2.76	24.15	193.20	1,500	1747.08/M	HCPL-0211-500E
	8-DIP	1,000V/µs	20	3,750	516-1649-5- ND	2.43	19.98	162.00	—	—	HCPL-2201-000E
	8-DIP	5,000V/µs	20	3,750	516-1537-5-ND	2.75	22.57	183.00	—	—	HCPL-2211-000E
	8-SOIC(W)	1,000V/µs	20	3,750	516-1614-5-ND	2.90	23.87	193.50	—	—	HCNW2201-000E
	8-DIP(W)	5,000V/µs	20	3,750	516-1615-5-ND	3.15	25.90	210.00	—	—	HCNW2211-000E
	8-SMD(W)	5,000V/µs	20	3,750	516-1616-5-ND	3.20	26.27	213.00	—	—	HCNW2211-300E
14	8-DIP	1,000V/µs	20	3,750	516-1650-5-ND	2.43	19.98	162.00	—	—	HCPL-2202-000E
	8-DIP	5,000V/µs	20	3,750	516-1651-5-ND	2.75	22.57	183.00	—	—	HCPL-2212-000E
15	8-DIP	1,000V/µs	20	3,750	516-1582-5-ND	6.35	52.17	423.00	—	—	HCPL-2231-000E
	8-SMD	1,000V/µs	20	3,750	516-1652-5-ND	6.39	52.54	426.00	—	—	HCPL-2231-300E
	8-DIP	5,000V/µs	20	3,750	516-1473-5-ND	8.21	67.53	547.50	—	—	HCPL-2232-000E
	8-SMD	5,000V/µs	20	3,750	516-1653-5-ND	8.26	67.90	550.50	—	—	HCPL-2232-300E
16	8-SOIC	100V/µs	5	3,750	516-1626-5-ND†	5.78	47.55	385.50	—	—	HCPL-0300-000E
	8-DIP	100V/µs	5	3,750	516-1538-5-ND†	4.50	37.00	300.00	—	—	HCPL-2300-000E
	8-SMD	100V/µs	5	3,750	516-1654-5-ND†	4.55	37.37	303.00	—	—	HCPL-2300-300E

Logic Gate - 10MBd

Fig.	OE	Package▲	Common Mode Rejection	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape & Reel§ Pricing 1,500	Avago Part No.
17	Yes	8-SOIC	5,000 V/µs	5	3,750	516-1075-2-NDΔ	—	—	—	936.00/M	HCPL-0601#500
	Yes	8-SMD	10,000 V/µs	5	3,750	516-1079-5-ND	1.73	14.25	115.50	—	HCPL-2611#300
	No	8-SOIC	5,000 V/µs	5	3,750	516-1091-2-NDΔ	—	—	—	2392.00/M	HCPL-0631#500
18	No	8-SOIC	1,000 V/µs	5	3,750	516-1095-2-NDΔ	—	—	—	3081.00/M	HCPL-063A#500
20	No	8-DIP	5,000 V/µs	5	3,750	516-1099-5-ND	2.90	23.87	193.50	—	HCPL-7611
						RoHS Compliant					
17	Yes	8-DIP	N/A	5	3,750	516-1521-5-ND	1.25	10.00	82.50	—	6N137-000E
	Yes	8-SMD	N/A	5	3,750	516-1599-5-ND	1.30	10.40	85.80	—	6N137-300E
	Yes	8-SOIC	N/A	5	3,750	516-1485-1-ND◊	1.80	14.40	118.80	936.00/M	HCPL-0600-500E
	Yes	8-DIP(W)	N/A	5	5,000	516-1611-5-ND	2.35	18.80	155.10	—	HCNW137-000E
	Yes	8-SOIC	5,000 V/µs	5	3,750	516-1471-5-ND	1.75	14.00	115.50	—	HCPL-0601-000E
	Yes	8-DIP	5,000 V/µs	5	3,750	516-1540-5-ND	1.68	13.40	110.55	—	HCPL-2601-000E
	Yes	8-SMD	5,000 V/µs	5	3,750	516-1661-5-ND	1.73	13.80	113.85	—	HCPL-2601-300E
	Yes	8-DIP	10,000 V/µs	5	3,750	516-1663-5-ND	1.88	15.00	123.75	—	HCPL-2611-000E
	Yes	8-SOIC	10,000 V/µs	5	3,750	516-1634-5-ND	2.03	16.65	135.00	—	HCPL-0611-000E
	Yes	8-SOIC	10,000 V/µs	5	3,750	516-1486-1-ND◊	1.84	16.10	128.80	1196.00/M	HCPL-0611-500E
	Yes	8DIP(W)	5,000 V/µs	5	5,000	516-1617-5-ND	2.50	20.54	166.50	—	HCNW2601-000E
	Yes	8-DIP(W)	10,000 V/µs	5	5,000	516-1618-5-ND	2.70	22.20	180.00	—	HCNW2611-000E
	Yes	8-SMD(W)	10,000 V/µs	5	5,000	516-1619-5-ND	2.75	22.57	183.00	—	HCNW2611-300E
	Yes	8-SOIC	1,000 V/µs	5	3,750	516-1635-5-ND	2.32	19.06	154.50	—	HCPL-061A-000E
	Yes	8-SOIC	1,000 V/µs	5	3,750	516-1579-5-ND	2.48	20.35	165.00	—	HCPL-061N-000E
18	No	8-DIP	N/A	5	3,750	516-1475-5-ND	2.81	23.13	187.50	—	HCPL-2630-000E
	No	8-SMD	N/A	5	3,750	516-1665-5-ND	2.86	23.50	190.50	—	HCPL-2630-300E
	No	8-SOIC	N/A	5	3,750	516-1487-1-ND◊	3.68	32.20	257.60	2392.00/M	HCPL-0630-500E
	No	8-DIP	5,000 V/µs	5	3,750	516-1541-5-ND	3.04	24.98	202.50	—	HCPL-2631-000E
	No	8-SMD	5,000 V/µs	5	3,750	516-1666-5-ND	3.08	25.35	205.50	—	HCPL-2631-300E

† 8MBd § For Tape and Reel part number, change 1-ND to 2-ND ▲ 8-SMD = PDip Package with Gullwing Leads; (W) = .4 inch row spacing) ◊ Cut Tape Δ Tape and Reel

Fig. 15

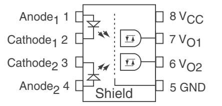

Fig. 16

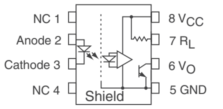

Fig. 17

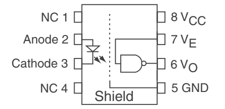

Fig. 18

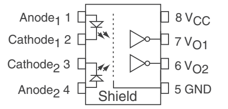

Fig. 19

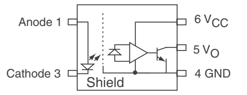

Fig. 20

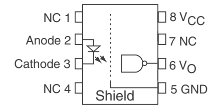

Fig. 21

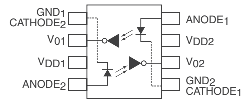

Fig. 22

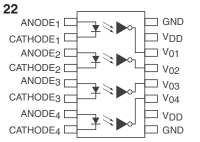

Fig. 23

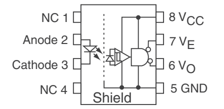

Fig. 24

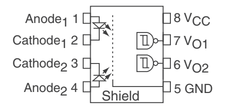

Fig. 25

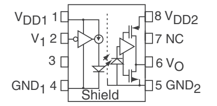

(Continued)

AVAGO TECHNOLOGIES

Optocouplers

Logic Gate - 10MBd *(Cont.)*

Fig.	OE	Package	Common Mode Rejection	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape & Reel§ Pricing 1,500	Avago Part No.
18	No	8-SOIC	5,000 V/µs	5	3,750	516-1580-1-ND◊	5.52	46.00	368.00	2392.00/M	HCPL-0631-500E
	No	8-SOIC	5,000 V/µs	5	3,750	516-1472-5-ND	4.10	33.67	273.00	—	HCPL-0631-000E
	No	8-DIP	10,000 V/µs	5	3,750	516-1680-5-ND	5.04	41.44	336.00	—	HCPL-4661-000E
	No	8-SOIC	10,000 V/µs	5	3,750	516-1533-5-ND	6.75	55.50	450.00	—	HCPL-0661-000E
	No	8-DIP	1,000 V/µs	5	3,750	516-1667-5-ND	4.39	36.08	292.50	—	HCPL-263A-000E
	No	8-SOIC	1,000 V/µs	5	3,750	516-1531-5-ND	5.29	43.48	352.50	—	HCPL-063A-000E
	No	8-DIP	1,000 V/µs	5	3,750	516-1669-5-ND	5.04	41.44	336.00	—	HCPL-263N-000E
	No	8-SOIC	1,000 V/µs	5	3,750	516-1532-5-ND	6.98	57.35	465.00	—	HCPL-063N-000E
19	No	5-SOIC	N/A	5	3,750	516-1692-5-ND	1.88	15.00	123.75	—	HCPL-M600-000E
	No	5-SOIC	10,000 V/µs	5	3,750	516-1554-5-ND	2.38	19.00	156.75	—	HCPL-M611-000E
20	No	8-DIP	1,000 V/µs	5	3,750	516-1687-5-ND	2.70	22.20	180.00	—	HCPL-7601-000E

Logic Gate - 15MBd

Fig.	OE	Package	Common Mode Rejection	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
17	Yes	8-DIP	15,000 V/µs	3.3	3,750	516-1101-5-ND	2.15	17.20	141.90	HCPL-260L
RoHS Compliant										
17	Yes	8-SOIC	15,000 V/µs	3.3	3,750	516-1633-5-ND	2.00	16.00	132.00	HCPL-060L-000E
18	No	8-DIP	15,000 V/µs	3.3	3,750	516-1668-5-ND	3.60	29.60	240.00	HCPL-263L-000E
	No	8-SOIC	15,000 V/µs	3.3	3,750	516-1581-5-ND	4.50	37.00	300.00	HCPL-063L-000E
21	No	8-SOIC	10,000 V/µs	5	2,500	516-1602-5-ND	2.70	22.20	180.00	ACSL-6210-00RE
22	No	16-SOIC	10,000 V/µs	5	2,500	516-1603-5-ND	5.40	44.40	360.00	ACSL-6400-00TE

Logic Gate - 20MBd

Fig.	OE	Package▲	Common Mode Rejection	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
RoHS Compliant										
23	Yes	8-DIP	1,000 V/µs	5	3,750	516-1655-5-ND	5.51	40.28	328.60	HCPL-2400-000E
	Yes	8-SMD	1,000 V/µs	5	3,750	516-1656-5-ND	5.51	40.28	328.60	HCPL-2400-300E
24	No	8-DIP	1,000 V/µs	5	3,750	516-1539-5-ND	11.04	84.00	696.00	HCPL-2430-000E
	No	8-SMD	1,000 V/µs	5	3,750	516-1657-5-ND	11.09	84.35	723.00	HCPL-2430-300E

High Speed CMOS

Fig.	Package▲	Transfer Rate (Mb/s)	Common Mode Rejection	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape & Reel§ Pricing 1,500	Avago Part No.
RoHS Compliant											
25	8-SOIC	50	10,000 V/µs	5	3,750	516-1640-5-ND	6.30	46.62	385.56	—	HCPL-0723-000E
	8-DIP	25	10,000 V/µs	5	3,750	516-1550-5-ND	5.72	41.80	341.00	—	HCPL-7721-000E
	8-SOIC	25	10,000 V/µs	5	3,750	516-1639-5-ND	5.98	43.70	356.50	—	HCPL-0721-000E
	8-DIP	25	10,000 V/µs	5	3,750	516-1689-5-ND	5.20	37.00	310.00	—	HCPL-7720-000E
	8-SOIC	25	10,000 V/µs	5	3,750	516-1534-5-ND	5.46	39.90	325.50	—	HCPL-0720-000E
	8-DIP	12.5	10,000 V/µs	5	3,750	516-1480-5-ND	4.95	35.10	288.00	—	HCPL-7710-000E
	8-SMD	12.5	10,000 V/µs	5	3,750	516-1688-5-ND	5.01	35.49	291.20	—	HCPL-7710-300E
	8-SOIC	12.5	10,000 V/µs	5	3,750	516-1705-5-ND	5.13	37.05	304.00	—	HCPL-0710-000E
	8-SOIC	12.5	10,000 V/µs	5	3,750	516-1489-1-ND◊	5.18	37.44	307.20	2592.00/M	HCPL-0710-500E
26	8-SOIC	15	10,000 V/µs	5	3,750	516-1536-5-ND	7.00	51.80	428.40	—	HCPL-0738-000E

Integrated Driver

Fig.	Package▲	Input Current	Output Current	Supply Voltage	Isolated Voltage	Delay Time	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
30	8-DIP	7mA	2.0A	30	3,750	0.50µs	516-1123-5-ND	3.04	24.98	202.50	HCPL-J312
	8-DIP	7mA	0.5A	30	3,750	0.50µs	516-1125-5-ND	2.43	19.98	162.00	HCPL-3150
RoHS Compliant											
27	8-DIP	8mA	0.6A	13	5,000	5.00µs	516-1670-5-ND	2.13	17.00	140.25	HCPL-3000-000E
28	8-DIP	12mA	0.1A	35	5,000	2.00µs	516-1671-5-ND	2.48	20.35	165.00	HCPL-3100-000E
29	8-DIP	8mA	0.1A	35	5,000	0.50µs	516-1672-5-ND	2.70	22.20	180.00	HCPL-3101-000E
30	8-DIP	7mA	2.0A	30	3,750	0.50µs	516-1476-5-ND	2.45	19.60	161.70	HCPL-3120-000E
	8-SMD	7mA	2.0A	30	3,750	0.50µs	516-1544-5-ND	2.25	18.50	150.00	HCPL-3120-300E
31	8-DIP(W)	7mA	2.0A	30	3,750	0.50µs	516-1470-5-ND	3.49	28.68	232.50	HCNW3120-000E
30	8-SMD	7mA	0.5A	30	3,750	0.50µs	516-1584-1-ND◊	2.48	20.35	165.00	HCPL-3150-500E
	8-SMD	7mA	0.5A	30	3,750	0.50µs	516-1584-2-NDΔ		1430.00/1,000		HCPL-3150-500E
	8-DIP	10mA	2.0A	20	3,750	0.20µs	516-1674-5-ND	2.81	23.13	187.50	HCPL-3180-000E
	8-SMD	10mA	2.0A	20	3,750	0.20µs	516-1675-5-ND	2.86	23.50	190.50	HCPL-3180-300E
32	8-SOIC	8mA	0.4A	30	3,750	0.70µs	516-1527-5-ND	1.88	15.00	123.75	HCPL-0314-000E
33	8-DIP	8mA	0.4A	30	3,750	0.70µs	516-1583-5-ND	1.80	14.40	118.80	HCPL-3140-000E
	16-SOIC	7mA	0.5A	30	3,750	0.50µs	516-1673-5-ND	5.36	44.03	357.00	HCPL-315J-000E
34	16-SOIC	8mA	0.4A	30	3,750	0.70µs	516-1477-5-ND	2.70	22.20	180.00	HCPL-314J-000E
—	16-SOIC	1µA	2.0A	30	3,750	0.50µs	516-1478-5-ND	5.20	43.89	358.05	HCPL-316J-000E

† 8MBd § For Tape and Reel part number, change 1-ND to 2-ND ▲ 8-SMD = PDip Package with Gullwing Leads; (W) = .4 inch row spacing) ◊ Cut Tape Δ Tape and Reel

Fig. 26

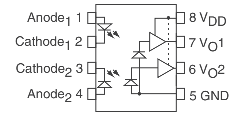

Fig. 27

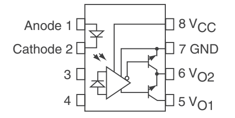

Fig. 28

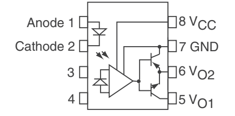

Fig. 29

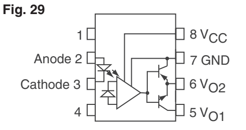

Fig. 30

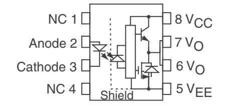

Fig. 31

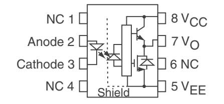

Fig. 32

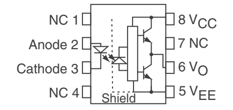

Fig. 33

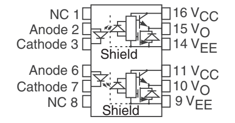

Fig. 34

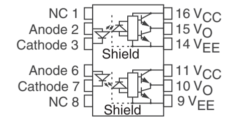

Fig. 35

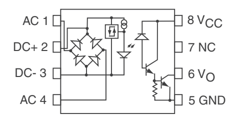

Fig. 36

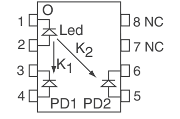

(Continued)

AC/DC Logic Interface

Fig.	Package▲	Hysteresis (Typ.)	Delay Time	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing			Avago Part No.
							1	10	100	
35	8-SMD	0.6mA	40µs	18	3,750	516-1134-5-ND	5.04	41.44	336.00	HCPL-3760#300
RoHS Compliant										
35	8-SOIC	1.2mA	40µs	18	3,750	516-1627-ND	3.22	26.46	214.50	HCPL-0370-000E
	8-DIP	1.2mA	40µs	18	3,750	516-1545-5-ND	3.20	26.27	213.00	HCPL-3700-000E
	8-SMD	1.2mA	40µs	18	3,750	516-1676-5-ND	3.24	26.64	216.00	HCPL-3700-300E
	8-DIP	0.6mA	40µs	18	3,750	516-1677-5-ND	5.00	41.07	333.00	HCPL-3760-000E

High Linearity Analog

Fig.	Package▲	Current Transfer Ratio (%)	Reverse Voltage	Isolated Voltage	Digi-Key Part No.	Pricing			Avago Part No.
						1	10	100	
RoHS Compliant									
36	8-DIP(W)	0.25 ~ 0.75	-15	5,000	516-1522-5-ND	2.99	24.61	199.50	HCNR200-000E
	8-DIP(W)	0.36 ~ 0.72	-15	5,000	516-1523-5-ND	3.98	32.75	265.50	HCNR201-000E
	8-SMD	0.25 ~ 0.75	-15	5,000	516-1608-5-ND	3.04	24.98	202.50	HCNR200-300E
	8-SMD	0.36 ~ 0.72	-15	5,000	516-1609-5-ND	4.03	33.12	268.50	HCNR201-300E

Miniature Analog Isolation Amplifiers

Fig.	Package▲	Gain Tol. ±	Delay Time	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing			Avago Part No.
							1	10	100	
37	8-SMD	5%	9.90µs	6	3,750	516-1138-5-ND	3.87	31.82	258.00	HCPL-7520-300
RoHS Compliant										
37	8-DIP	3%	9.90µs	6	3,750	516-1682-5-ND	4.16	34.23	277.50	HCPL-7510-000E
	8-SMD	3%	9.90µs	6	3,750	516-1683-5-ND	4.21	34.60	280.50	HCPL-7510-300E
	8-DIP	5%	9.90µs	6	3,750	516-1684-5-ND	3.83	31.45	255.00	HCPL-7520-000E
	8-DIP	3%	9.90µs	5	3,750	516-1481-5-ND	8.44	69.38	562.50	HCPL-7800-000E
	8-SMD	3%	9.90µs	5	3,750	516-1551-5-ND	8.48	69.75	565.50	HCPL-7800-300E
	8-DIP	1%	9.90µs	5	3,750	516-1552-5-ND	10.98	90.28	732.00	HCPL-7800A-000E
	8-SMD	1%	9.90µs	5	3,750	516-1553-5-ND	11.03	90.65	735.00	HCPL-7800A-300E
	8-DIP	5%	9.90µs	5	3,750	516-1482-5-ND	4.95	40.70	330.00	HCPL-7840-000E
	8-SMD	5%	9.90µs	5	3,750	516-1690-5-ND	5.00	41.07	333.00	HCPL-7840-300E
—	16-SOIC	5%	20.00µs	5	3,750	516-1691-5-ND	6.68	54.95	445.50	HCPL-788J-000E

Line Receivers

Fig.	Package	Delay Time	Output Current	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing			Avago Part No.
							1	10	100	
RoHS Compliant										
38	8-DIP	100ns	50mA	5	3,750	516-1662-5-ND	5.72	46.99	381.00	HCPL-2602-000E
	8-DIP	100ns	50mA	5	3,750	516-1664-5-ND	9.00	74.00	600.00	HCPL-2612-000E

20mA Loop Transmitters/Receivers

Fig.	Package	Supply Voltage	Delay Time	Isolated Voltage	Digi-Key Part No.	Pricing			Avago Part No.
						1	10	100	
RoHS Compliant									
39	8-DIP	4.5 ~ 20	1.60µs	3,750	516-1546-5-ND	5.83	47.92	388.50	HCPL-4100-000E
40	8-DIP	4.5 ~ 20	1.60µs	3,750	516-1547-5-ND	5.83	47.92	388.50	HCPL-4200-000E

Digital Isolators

Fig.	Package▲	No. of Circuits	Transfer Rate (Bits, Bytes)	Supply Voltage	Digi-Key Part No.	Pricing			Avago Part No.
						1	10	100	
41	8-SOIC	1	100Mb/s	3 ~ 5.5	516-1150-5-ND	4.76	33.15	272.00	HCPL-0900
42	8-SOIC	2	100Mb/s	3 ~ 5.5	516-1151-5-ND	6.25	46.25	382.50	HCPL-0930
43	16-SOIC(N)	4	100Mb/s	3 ~ 5.5	516-1152-5-ND	8.64	64.80	540.00	HCPL-090J
44	16-SOIC(N)	4	100Mb/s	3 ~ 5.5	516-1153-5-ND	8.64	64.80	540.00	HCPL-092J
RoHS Compliant									
45	16-SOIC	—	—	4.5 ~ 5.5	516-1645-ND	4.07	33.49	271.50	HCPL-0872-000E
46	8-DIP	—	—	4.5 ~ 5.5	516-1685-ND	7.72	63.46	514.50	HCPL-7560-000E
	8-SMD	—	—	4.5 ~ 5.5	516-1686-ND	7.76	63.83	517.50	HCPL-7560-300E

† 8MBd § For Tape and Reel part number, change 1-ND to 2-ND ▲ 8-SMD = PDip Package with Gullwing Leads; (W) = .4 inch row spacing) ◊ Cut Tape ∆ Tape and Reel

Fig. 37

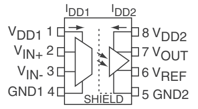

Fig. 38

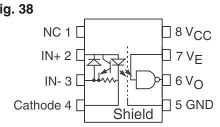

Fig. 39

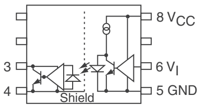

Fig. 40

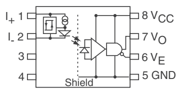

Fig. 41

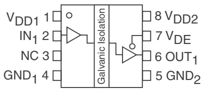

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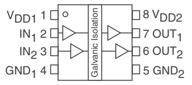

Fig. 43

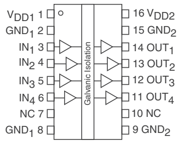

Fig. 44

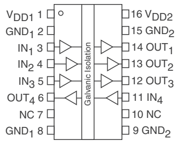

Fig. 45

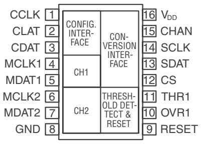

Fig. 46

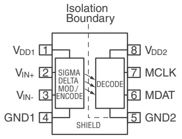

ANALOG DEVICES iCoupler® Digital Isolators

*i*Coupler isolation technology combines the dc isolation properties of microtransformers with semiconductor processing techniques to provide performance, power and integration benefits superior to those offered by traditional optocoupler technology. *i*Coupler components operate at higher data rates, provide better timing accuracy and common-mode transient immunity and operate at lower power levels than optocouplers. They operate over wider temperature and supply voltage ranges than their optical competition. The *i*Coupler technology rescues modern designs from the poorly controlled, temperature sensitive and time-dependent current transfer characteristics of standard optocouplers.

Fig.	Supply Voltage	Package Type	Max. Data Rate Mbps	Digi-Key Part No.	Price Each			T & R† Pricing
					1	25	100	1,000
				Single Channel				
1	3.0/5.5V	8-SOIC	25	ADUM1100AR-RL7CT-NDΔ	4.50	3.60	2.80	2550.00
			25	ADUM1100ARZ-RL7CT-ND◆Δ	4.10	3.28	2.55	2320.50
			100	ADUM1100BRZ-RL7CT-ND◆Δ	4.68	3.75	2.92	2652.00
			100	ADUM1100URZ-ND◆	6.24	5.00	4.22	—
	3.3/5.0V	8-SOIC	25	ADUM3100ARZ-ND◆	4.30	3.44	2.68	—
			100	ADUM3100BRZ-ND◆	4.91	3.93	3.06	—
				Dual Channel — RoHS Compliant				
2	2.7/5.5V	8-SOIC	1	ADUM1200ARZ-RL7CT-NDΔ	3.08	2.47	1.92	1746.75
			10	ADUM1200BRZ-ND	4.48	3.59	2.79	—
			10	ADUM1200BRZ-RL7CT-NDΔ	4.48	3.59	2.79	2537.25
			25	ADUM1200CRZ-RL7CT-NDΔ	5.52	4.42	3.73	3450.00
			10	ADUM1210BRZ-RL7CT-NDΔ	4.48	3.59	2.79	2537.25
			1	ADUM3200ARZ-ND	3.22	2.58	2.01	—
			10	ADUM3200BRZ-ND	4.70	3.77	2.93	—
3	2.7/5.5V	8-SOIC	1	ADUM1201ARZ-RL7CT-NDΔ	3.08	2.47	1.92	1746.75
			10	ADUM1201BRZ-RL7CT-NDΔ	4.48	3.59	2.79	2537.25
			25	ADUM1201CRZ-RL7CT-NDΔ	5.52	4.42	3.73	3450.00
			1	ADUM3201ARZ-ND	3.22	2.58	2.01	—
			10	ADUM3201BRZ-ND	4.70	3.77	2.93	—
			25	ADUM3201CRZ-ND	5.78	4.63	3.91	—
4	4.5/5.5V	16-SOIC	10	ADUM1233BRWZ-ND	3.98	3.19	2.48	—
			10	ADUM1234BRWZ-ND	3.98	3.19	2.48	—
5	3.0/5.5V	8-SOIC	1	ADUM1250ARZ-ND	7.64	6.12	5.16	—
6	3.0/5.5V	8-SOIC	1	ADUM1251ARZ-ND	6.90	5.52	4.66	—
7	3.0/5.0	16-SOIC	1	ADUM2200ARWZ-ND ***NEW!***	4.19	3.35	2.61	—
			10	ADUM2200BRWZ-ND ***NEW!***	5.36	4.29	3.62	—
8	3.0/5.0	16-SOIC	1	ADUM2201ARWZ-ND ***NEW!***	4.19	3.35	2.61	—
			10	ADUM2201BRWZ-ND ***NEW!***	5.36	4.29	3.62	—
9	3.0/5.5	16-SOIC	1	ADUM2250ARWZ-ND ***NEW!***	9.02	7.22	6.09	—
10	3.0/5.5	16-SOIC	1	ADUM2251ARWZ-ND ***NEW!***	8.12	6.50	5.49	—
11	4.5/5.5V	8-SOIC	1	ADUM5240ARZ-ND	6.66	5.33	4.50	—
			1	ADUM5240ARZ-RL7CT-ND	6.66	5.33	4.50	4162.50
12	4.5/5.5V	8-SOIC	1	ADUM5241ARZ-ND	6.66	5.33	4.50	—
			1	ADUM5241ARZ-RL7CT-ND	6.66	5.33	4.50	4162.50
13	4.5/5.5V	8-SOIC	1	ADUM5242ARZ-ND	6.66	5.33	4.50	—
			1	ADUM5242ARZ-RL7CT-ND	6.66	5.33	4.50	4162.50
				Triple Channel				
14	2.7/5.5V	16-SOIC	1	ADUM1300ARW-ND	4.50	3.60	2.80	—
			1	ADUM1300ARWZ-RLCT-ND◆Δ	4.10	3.28	2.55	2320.50
			10	ADUM1300BRWZ-ND◆	5.46	4.37	3.69	—
			90	ADUM1300CRWZ-ND◆	8.24	6.60	5.57	—
			90	ADUM3300ARWZ-ND◆	4.30	3.44	2.68	—
			90	ADUM3300BRWZ-ND◆	5.74	4.60	3.88	—
			90	ADUM3300CRWZ-ND◆	8.66	6.93	5.85	—
15	2.7/5.5V	16-SOIC	1	ADUM1301ARW-ND	4.50	3.60	2.80	—
			10	ADUM1301BRWZ-ND◆	5.46	4.37	3.69	—
			90	ADUM1301CRWZ-ND◆	8.24	6.60	5.57	—
			1	ADUM1301ARWZ-RLCT-ND◆Δ	4.10	3.28	2.55	2320.50
			90	ADUM3301ARWZ-ND◆	4.30	3.44	2.68	—
16	3.0/5.0V	16-SOIC	1	ADUM1310ARWZ-ND◆	4.10	3.28	2.55	—
			10	ADUM1310BRWZ-ND◆	5.46	4.37	3.69	—
17	3.0/5.0V	16-SOIC	50	ADUM1311BRWZ-ND◆	5.46	4.37	3.69	—
			100	ADUM1311ARWZ-ND◆	4.10	3.28	2.55	—
				Quad Channel — RoHS Compliant				
18	2.7/5.5V	16-SOIC	1	ADUM1400ARWZ-RLCT-NDΔ	5.47	4.38	3.41	3098.25
			10	ADUM1400BRWZ-RLCT-NDΔ	7.28	5.83	4.92	4550.00
			90	ADUM1400CRWZ-RLCT-NDΔ	9.76	7.81	6.59	6100.00
			1	ADUM2400ARWZ-ND	7.16	5.73	4.84	—
			10	ADUM2400BRWZ-ND	8.66	7.80	6.92	—
			90	ADUM2400CRWZ-ND	11.20	10.08	8.94	—
			90	ADUM3400ARWZ-ND	5.10	4.08	3.45	—
			90	ADUM3400BRWZ-ND	7.64	6.12	5.16	—
			90	ADUM3400CRWZ-ND	8.53	7.68	6.81	—
	3.0/5.5V	16-SOIC	90	ADUM3440CRWZ-ND ***NEW!***	10.18	9.17	8.13	—
19	2.7/5.5V	16-SOIC	1	ADUM1402ARWZ-RLCT-NDΔ	5.47	4.38	3.41	3098.25
			10	ADUM1402BRWZ-RLCT-NDΔ	7.28	5.83	4.92	4550.00
			90	ADUM1402CRWZ-RLCT-NDΔ	9.76	7.81	6.59	6100.00
			1	ADUM2402ARWZ-ND	7.16	5.73	4.84	—
			10	ADUM2402BRWZ-ND	8.66	7.80	6.92	—
			90	ADUM2402CRWZ-ND	11.20	10.08	8.94	—
			90	ADUM3402ARWZ-ND	5.10	4.08	3.45	—
			90	ADUM3402BRWZ-ND	7.64	6.12	5.16	—
			90	ADUM3402CRWZ-ND	8.53	7.68	6.81	—
	3.0/5.0V	16-SOIC	1	ADUM1412ARWZ-ND	5.47	4.38	3.41	—
			10	ADUM1412BRWZ-ND	7.28	5.83	4.92	—
20	2.7/5.5V	16-SOIC	1	ADUM1401ARWZ-RLCT-NDΔ	5.47	4.38	3.41	3098.25
			10	ADUM1401BRWZ-RLCT-NDΔ	7.28	5.83	4.92	4550.00
			90	ADUM1401CRWZ-RLCT-NDΔ	9.76	7.81	6.59	6100.00
			1	ADUM2401ARWZ-ND	7.16	5.73	4.84	—
			10	ADUM2401BRWZ-ND	8.66	7.80	6.92	—
			90	ADUM2401CRWZ-ND	11.20	10.08	8.94	—
			90	ADUM3401ARWZ-ND	5.10	4.08	3.45	—
			90	ADUM3401BRWZ-ND	7.64	6.12	5.16	—
			90	ADUM3401CRWZ-ND	8.53	7.68	6.81	—
			1	ADUM1411ARWZ-ND	5.47	4.38	3.41	—
			10	ADUM1411BRWZ-ND	7.28	5.83	4.92	—
	3.0/5.5V	16-SOIC	90	ADUM3441CRWZ-ND ***NEW!***	10.18	9.17	8.13	—
			90	ADUM3442CRWZ-ND ***NEW!***	10.18	9.17	8.13	—
21	3.0/5.0V	16-SOIC	1	ADUM1410ARWZ-ND	5.47	4.38	3.41	—
			10	ADUM1410BRWZ-ND	7.28	5.83	4.92	—
22	4.5V/5.5V	28-SOIC	5	ADUM1420BRWZ-ND ***NEW!***	5.20	4.16	3.51	—

◆ ***RoHS Compliant*** Δ Cut Tape † For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

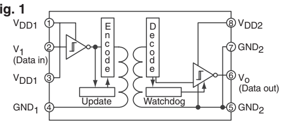

Fig. 2

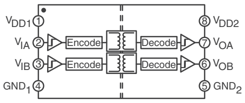

Fig. 3

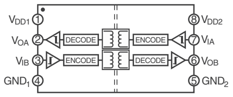

Fig. 4

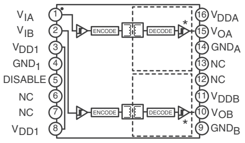

∗ No Output Schmitt Trigger on ADUM1234BRWZ-ND

Fig. 5

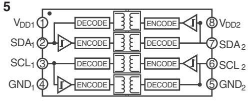

Fig. 6

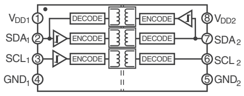

Fig. 7 ***NEW!***

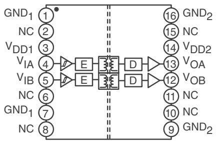

Fig. 8 ***NEW!***

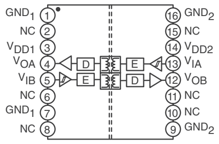

Fig. 9 ***NEW!***

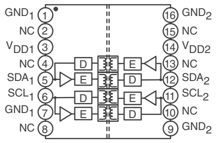

Fig. 10 ***NEW!***

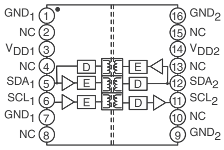

Fig. 11

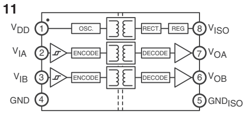

Fig. 12

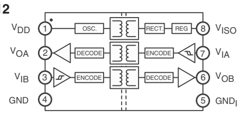

Fig. 13

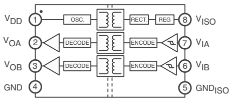

Fig. 14

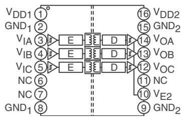

Fig. 15

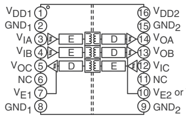

Fig. 16

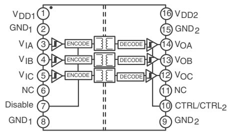

Fig. 17

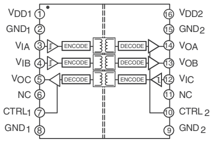

Fig. 18

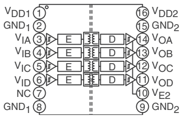

Fig. 19

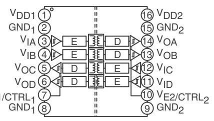

Fig. 20

‡ Direction of Pins 5 and 12 are opposite of drawing shown on ADUM3442CRWZ-ND

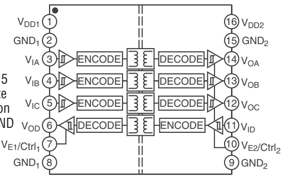

Fig. 21

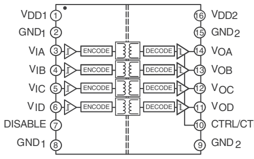

Fig. 22 ***NEW!***

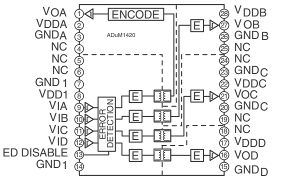

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SHARP
MICROELECTRONICS

OPIC™ Photointerrupter

Fig. 1

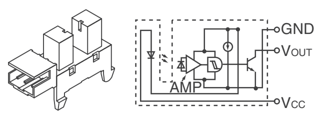

Fig. 2

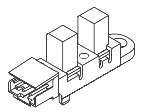

Fig. 3

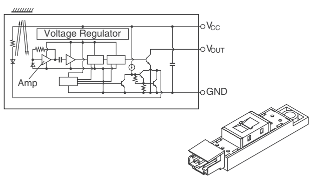

Fig. 4 ***NEW!***

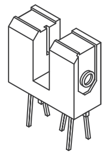

Fig.	Detector VCC (V) Max.	Icc (mA) Max.	Sensing Distance (mm)	Terminal Type	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	5.5	16.5	5.0	Connector	425-1771-5-ND§	2.19	1.83	1.46	GP1A073LCS
2	5.5	20.0	50.0	Connector	425-2565-ND	1.85	1.48	1.23	GP1A75E3J00F
3	5.25	30.0	2.0 ~ 22.0	Connector	425-2529-ND	4.68	3.85	3.12	GP2A240LCS0F
4	17.0	50.0	5.0	PCB	425-1952-5-ND ***NEW!***	1.55	1.24	1.03	GP1A58HRJ00F

§ Inverted

Reflective Photointerrupter

Fig. 1

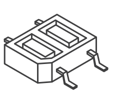

Fig. 2

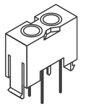

Fig. 3

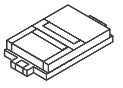

Fig. 4

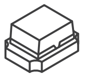

Fig. 5

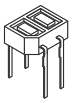

Fig.	Detector Vceo (V) Max.	IC (mA) Max.	Rise/Fall (µs) Typ.	Sensing Distance (mm)	Term-inal Type	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	35	20	20/20	0.6 ~ 0.8	SMD	425-1094-1-ND†	1.11	.93	.74	GP2S27T
	35	20	100	0.7	SMD	425-2569-1-ND†◆ 425-2569-2-ND‡◆	1.20 520.00/1,000	1.00	.80	GP2S27T2J00F GP2S27T2J00F
	35	20	100	0.7	SMD	425-2570-1-ND†◆ 425-2570-2-ND‡◆	1.17 507.00/1,000	.98	.78	GP2S27T3J00F GP2S27T3J00F
2	35	20	20/30	6	PCB	425-1095-5-ND◆	1.28	1.02	.85	GP2S28
3	35	20	20/20	1	SMD	425-1097-1-ND†◆ 425-1097-2-ND‡◆	.51 476.00/2,000	.43	.34	GP2S60 GP2S60
	35	20	20/20	0.7	SMD	425-2670-1-ND†◆ 425-2670-2-ND‡◆	.54 504.00/2,000	.45	.36	GP2S60B GP2S60B
4	35	20	20/20	1.2 ~ 5.5	SMD	425-1913-1-ND†◆ 425-1913-2-ND‡◆	1.17 507.00/1,000	.98	.78	GP2S700HCP GP2S700HCP
5	35	20	100	0.7	PCB	425-2567-5-ND◆ 425-2568-5-ND◆	.90 .90	.75 .75	.60 .60	GP2S24BJ000F GP2S24CJ000F
	35	20	20/20	0.7	PCB	425-2681-5-ND◆ 425-2050-5-ND◆	.84 .84	.70 .70	.56 .56	GP2S24BCJ00F GP2S24J0000F

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel

Photointerrupter

Fig. 1

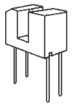

Fig. 2

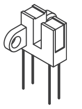

Fig. 3

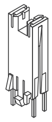

Fig. 4

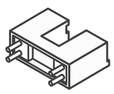

Fig.	Detector Vceo (V) Max.	IC (mA) Max.	Rise/Fall (µs) Typ.	Sensing Distance (mm)	Term-inal Type	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	35	20	35/35	1.6	PCB	425-1978-5-ND◆	1.23	1.03	.82	GP1S95J0000F
	35	20	35/35	1.6	PCB	425-1062-5-ND	1.23	1.03	.82	GP1S95
	35	20	50/50	3.0	PCB	425-1040-5-ND	.56	.39	.28	GP1S094HCZ
	35	20	50/50	3.0	PCB	425-1964-5-ND◆	.56	.39	.28	GP1S094HCZ0F
	35	20	150/150	1.1	PCB	425-2509-5-ND◆*	.56	.39	.28	GP1S196HCZ0F
	35	20	150/150	1.1	SMT	425-2510-5-ND◆*	.68	.47	.34	GP1S196HCZSF
2	35	20	3/4	3.0	PCB	425-1970-5-ND◆	1.05	.88	.70	GP1S51VJ000F
3	35	20	3/4	3.0	PCB	425-1055-5-ND	.81	.68	.54	GP1S563
4	10	20	2/2	5.0	PCB	425-2680-5-ND◆	1.00	.69	.50	GP1S525VJ00F

◆ ***RoHS Compliant*** * Low profile

NKK®
SWITCHES

Contactless Tilt Switch

Dim. in Inches(mm)

Fig. 1

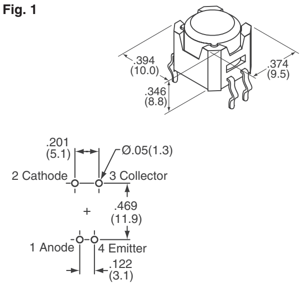

Fig. 2

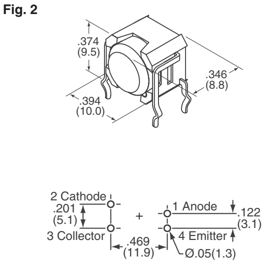

Fig. 3

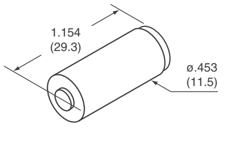

Fig. 4

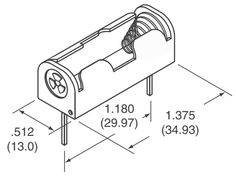

DSB SERIES: Photointerrupter, rather than contacts, ensures high reliability. Sealed construction for protection from environmental elements, including hydrogen sulfide, sulfur dioxide, and nitrogen hydroxide. Terminals are made of ammonia resistent materials. The switch is triggered when tilted beyond 30° in any direction.
Specifications: • Mechanical and Electrical Life: 150,000 Operations Minimum • Forward Current: 20mA • Forward Voltage: 1.3V • Operating Temperature: -25°C ~ 80°C
Note: Prevent exposure to magnetic fields. Do not install switch near vibration source.

DSA SERIES: • Environmentally friendly, contains no mercury • High contact reliability due to sealed body • The switch is triggered when tilted beyond ±10° of the horizontal
Specifications: • Resistive Load: 0.1A@12VDC • Mechanical Life: 100,000 operations minimum • Operating Temperature: -10°C ~ 70°C

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	Tilt Switch, Straight	360-2187-ND	6.19	4.12	3.69	DSBA1P
2	Tilt Switch, Right Angle	360-2188-ND	6.19	4.12	3.69	DSBA1H
3	Tilt Switch, SPST, On/Off	360-2291-ND	7.80	5.19	4.65	DSA01
4	PCB Adaptor for DSA01	360-2292-ND	1.64	1.09	.98	AT094

TOSHIBA

Illumination Sensors

SMD Photo-ICs for illuminance sensor which consist of one chip integrated photo-diode and amplifier circuit
Features: • Small SMD package • Suitable for lead-free soldering and reflow soldering • Low supply voltage: VCC = 2.7V to 5.5V

Dim in mm

Fig. 1

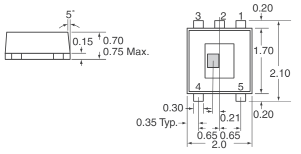

Fig. 2

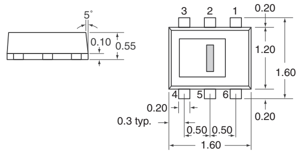

Fig.	Sensitivity	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel Pricing* 3,000	Toshiba Part No.
1	52µA	TPS851CT-ND	1.08	9.00	72.00	468.00/M	TPS851
2	40µA	TPS852CT-ND	1.08	9.00	72.00	468.00/M	TPS852

* For Tape and Reel part number, change CT-ND to TR-ND.

JST

Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	100	500	Tape & Reel Pricing*	JST Part No.
3-Pos., 2.5mm, Disconnectable Crimp Style NH Connector	455-1120-ND◆	.66	5.51	22.02	—	H3P-SHF-AA
Tin-Plated Phosphor Bronze Crimp Contact, 22-28AWG	455-1121-1-ND◆	—	3.39	13.55	101.63/5,000	SHF-001T-0.8BS
Crimp Tool with Die for 22-28AWG Contacts	455-1122-ND	419.19/1			—	WC-122

◆ ***RoHS Compliant*** * For Tape and Reel part number, change 1-ND to 2-ND.

SHARP MICROELECTRONICS

OPIC™ Light Detectors

Dim in mm

Fig. 1

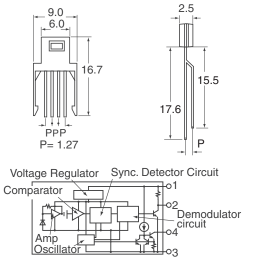

Fig. 2

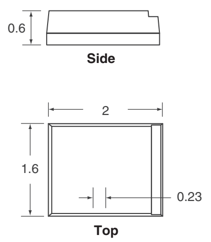

Vcc (V)	Output Current (mA)	Rise/ Fall Typ. (µs)	Beam Angle (2x Theta)	Peak Wave-length (nm) Typ.	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
Fig. 1									
0.5 ~ 16	50	400/400	110	940	425-2069-5-ND§	2.72	2.24	1.82	IS471FE
Fig. 2									
-0.3 ~ 7.0	1	150/150 max.	110	555	425-2650-1-ND† 425-2650-2-ND‡	1.05 980.00/2,000	.88	.70	GA1A1S201WP

† Cut tape ‡ Tape and Reel § Visible light cut-off resin, black

IR Emitters, Phototransistors and Photodiodes

Fig. 1

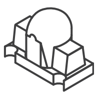

Fig. 2

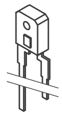

Fig. 3

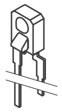

Fig. 4

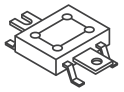

IR Emitters

Fig.	Forward Voltage Typ. (V)	Forward Current Max. (mA)	Optical Power Output (mW) Max.	Beam Angle (2x Theta)	Peak Wave-length (nm) Typ.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Sharp Part No.
1	1.2	50	3.0	20	940	425-1022-1-ND 425-1022-2-ND‡	.36 336.00/2,000	.30	.24	GL100MN0MP
			3.0	10	940	425-2706-1-ND ***NEW!*** 425-2706-2-ND‡ ***NEW!***	.48 252.00/1,500	.33	.24	GL100MN0MP1
			6.0	20	940	425-1023-1-ND 425-1023-2-ND‡	.54 504.00/2,000	.45	.36	GL100MN1MP
			6.0	20	940	425-2666-1-ND 425-2666-2-ND‡	.81 378.00/1,500	.59	.36	GL100MN1MP1

‡ Tape and Reel

Phototransistors

Fig.	Vceo Max. (V)	IC (mA)	Peak Sensitivity Wavelength (nm) Typ.	Rise/Fall Typ. (µs)	Beam Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
1	35	20	860	400/300	30	425-2665-1-ND◆†◊ 425-2665-2-ND◆‡◊	.42 294.00/1,500	.35	.28	PT100MF1MP1
		20	900	5.0/6.0	15	425-2648-1-ND◆† 425-2648-2-ND◆‡	.36 252.00/1,500	.30	.24	PT100MC0MP1
		20	900	5.0/6.0	30	425-1005-1-ND◆† 425-1005-2-ND◆‡	.36 336.00/2,000	.30	.24	PT100MC0MP
		20	910	5.0/6.0	30	425-1006-1-ND◆†∆ 425-1006-2-ND◆‡	.36 336.00/2,000	.30	.24	PT100MF0MP
		20	910	5.0/6.0	30	425-1007-1-ND◆†∆ 425-1007-2-ND◆‡	.36 252.00/1,500	.30	.24	PT100MF0MP1
2	35	20	860	3.0/3.5	70	425-2378-5-ND◆∆	.56	.39	.28	PT4800FE000F
		20	800	3.0/3.5	20	425-2379-5-ND◆	.36	.30	.24	PT480E00000F
3	35	20	860	3.0/3.5	26	425-2380-5-ND◆∆	.52	.36	.26	PT480FE0000F
		50	800	80/70	26	425-1013-5-ND§	.52	.36	.26	PT481

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel § Transparent blue resin
∆ Visible Light cut-off resin, black ◊ Darlington

Photodiodes

Fig.	Vr Max. (V)	Short Circuit Current Is (µA) Typ.	Dark Current Id Max. (nA)	Peak Sensitivity Wavelength (nm) Typ.	Rise/ Fall Typ. (ns)	Beam Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Sharp Part No.
1	20	0.9	10	820	10	40	425-1027-1-ND◆ 425-1027-2-ND◆‡	.36 336.00/2,000	.30	.24	PD100MC0MP
	20	0.6	10	850	10	40	425-1028-1-ND◆§ 425-1028-2-ND◆‡§	.36 336.00/2,000	.30	.24	PD100MF0MP
	20	0.6	10	850	10	40	425-2672-1-ND◆ 425-2672-2-ND◆‡	.36 252.00/1,500	.30	.24	PD100MF0MP1
4	30	9.2	2.0	940	5	—	425-1030-5-ND†	1.11	.93	.74	PD3122F

◆ ***RoHS Compliant*** ‡ Tape and Reel † Tube § Visible Light cut-off resin, black

Blue Sensitive Photodiodes

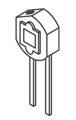

Features:
- Spectral sensitivity characteristics akin to that of human eye
- Compact flat package
- Low dark current
- Infrared light cut-off type

Applications:
- AE (automatic exposure) system and ES (electronic shutter) system for cameras
- Stroboscopes
- Precise optical instruments

Short Cir. Current Is Typ. (µA)	Dark Current Id Typ. (A)	Peak Sensitivity Wavelength Typ. (nm)	Reverse Voltage Vr (V) Max.	Active Area (mm sq.)	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
0.16	$3x10^{-12}$	560	10	1.55	425-2429-5-ND	1.95	1.56	1.29	BS120E0F

JST Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	100	500	Tape & Reel Pricing‡ 13,000	JST Part No.
6-Pos., 1.5mm, Disconnectable Crimp Style ZH Connector	455-1129-ND◆	.80	6.65	26.58	—	ZHR-6
Tin-Plated Phosphor Bronze Crimp Contact, 26-28AWG	455-1130-1-ND◆†	—	1.35	5.41	93.54/M	SZH-002T-P0.5
Crimp Tool with Die for 26-28AWG Contacts	455-1131-ND	419.19/1			—	WC-491

◆ ***RoHS Compliant*** † Cut Tape ‡ For Tape and Reel part number, change 1-ND to 2-ND.

SHARP MICROELECTRONICS

Distance Measuring Sensors

Fig. 1

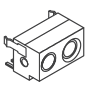

Fig. 2

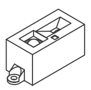

Fig. 3

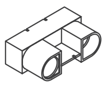

Fig.	Vcc Typ. (V)	Distance Measuring Range (cm) Typ.	Diff. of Output Voltage (V) Typ.	Output Current ICC (mA) Typ.	Output Type	Digi-Key Part No.	Price Each 1	25	50	Sharp Part No.
1	5	40	—	28	Digital	425-1810-ND	8.03	6.42	5.33	GP2Y0D340K
		5	—	10.5		425-2615-5-ND	3.25	2.60	2.28	GP2Y0D805Z0F
		10	—	10.5		425-2616-5-ND	3.25	2.60	2.28	GP2Y0D810Z0F
	7	10	—	35	Digital	425-2657-ND	8.03	6.42	5.62	GP2Y0D310K
2	5	4 ~ 30	1.6	30	Analog	425-2498-ND	52.50	42.00	36.75	GP2Y3A001K0F
		20 ~ 150	1.6	30		425-2499-ND	52.50	42.00	36.75	GP2Y3A002K0F
		40 ~ 300	1.2	30		425-2500-ND	52.50	42.00	36.75	GP2Y3A003K0F
3	—	100 ~ 500	1.5	33	Analog	425-2506-ND	19.02	15.22	13.32	GP2Y0A700K0F

See below for JST Mating Connector

JST Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	100	500	Tape and Reel Pricing‡ 8,000	JST Part No.
3-Pos., 2.0mm, Disconnectable Crimp Style PH Connector	455-1126-ND◆	.44	3.71	14.82	—	PHR-3
24-30AWG, Tin-Plated Phosphor Bronze Crimp Contact	455-1127-1-ND◆†	—	2.12	8.46	12.69/M	SPH-002T-P0.5S
Crimp Tool with Die for 24-30AWG Contacts	455-1128-ND	419.19/1			—	WC-240

◆ ***RoHS Compliant*** † Cut Tape ‡ For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

FAIRCHILD SEMICONDUCTOR®

Interrupter Modules and Detectors

Semiconductor Interrupter Modules

Fig.	Circuit	Output Type	Ic (on) (mA) min.	Test Conditions If/Vce	Slot Width (mm)	Lead Spacing (mm)	Digi-Key Part No.	Price Each 1	10	100	500
1	B	Transistor	1.0	20mA @ 5V	3.18	5.59	QVA11134-ND	1.14	.95	.76	.54
	B	Transistor	1.0	20mA @ 5V	3.15	7.24	H22A1-ND	.96	.80	.64	.45
	B	Transistor	2.0	20mA @ 5V	3.15	7.24	H22A2-ND	1.05	.88	.70	.49
	B	Transistor	4.0	20mA @ 5V	3.15	7.24	H22A3-ND	1.05	.88	.70	.49
	A	Darlington	2.5	5mA @ 1.5V	3.15	7.24	H22B1-ND	.90	.75	.60	.42
2	B	Transistor	1.0	20mA @ 5V	3.18	5.59	QVB11134-ND	1.25	1.05	.84	.59
3	C	Transistor	0.5	20mA @ 5V	3.81	7.62	QVE11233-ND	1.17	.98	.78	.55
4	B	Transistor	1.0	20mA @ 5V	3.15	7.24	H21A1-ND	1.05	.88	.70	.49
	B	Transistor	2.0	20mA @ 5V	3.15	7.24	H21A2-ND	1.05	.88	.70	.49
	B	Transistor	4.0	20mA @ 5V	3.15	7.24	H21A3-ND	1.05	.88	.70	.49
	A	Darlington	2.5	5mA @ 1.5V	3.15	7.24	H21B1-ND	.90	.75	.60	.42

Optologic Interrupter Modules

Fig.	Circuit	Output Type	VCC	Max Output Current (mA)	Rise/ Fall (ns)	Digi-Key Part No.	Price Each 1	10	100	500
5	K	T.P. BUFF	4.5 ~ 16.0	50	70	H21LTB-ND◆	1.17	.98	.78	.55
	L	T.P. INV	4.5 ~ 16.0	50	70	H21LTI-ND◆	1.17	.98	.78	.55
	M	O.C. BUFF	4.5 ~ 16.0	50	70	H21LOB-ND	1.23	1.03	.82	.58
	N	O.C. INV	4.5 ~ 16.0	50	70	H21LOI-ND◆	1.17	.98	.78	.55
6	K	T.P. BUFF	4.5 ~ 16.0	50	70	H22LTB-ND◆	1.29	1.08	.86	.61
	L	T.P. INV	4.5 ~ 16.0	50	70	H22LTI-ND	1.11	.93	.74	.52
	M	O.C. BUFF	4.5 ~ 16.0	50	70	H22LOB-ND◆	1.11	.93	.74	.52
	N	O.C. INV	4.5 ~ 16.0	50	70	H22LOI-ND◆	1.11	.93	.74	.52

◆ *RoHS Compliant*

Semiconductor Infrared Photo Detectors

Fig.	Circuit	BV_{CEO} (V)	Min. Ic @ 5Vce (mA)	Rise/Fall (μ sec)	Reception Angle ±	Peak Wavelength Sensitivity	Digi-Key Part No.	Price Each 1	10	100	500
7	F	45	6	8/7	—	880	BPW36-ND	1.50	1.20	.90	.81
	F	45	6	8/7	—	880	L14G1-ND◆	1.45	1.16	.87	.79
	F	45	3	8/7	—	880	L14G2-ND◆	1.50	1.20	.90	.81
	F	45	12	8/7	—	880	L14G3-ND◆	1.50	1.20	.90	.81
	F	30	4	10/12	12	880	L14P1-ND◆	1.65	1.32	.99	.90
	F	30	8	14/16	12	880	L14P2-ND◆	1.65	1.32	.99	.90
	E	25	3	300/250	8	880	BPW38-ND◆	1.50	1.20	.90	.81
	E	25	3	300/250	8	880	L14F1-ND◆	1.50	1.20	.90	.81
	E	25	1	300/250	8	880	L14F2-ND◆	1.50	1.20	.90	.81
8	F	50	1	5/5	60	880	L14C1-ND	1.50	1.20	.90	.81
	F	50	0.5	5/5	60	880	L14C2-ND	1.50	1.20	.90	.81
	F	30	3	10/12	30	880	L14N1-ND◆	1.50	1.20	.90	.81
	F	30	6	14/16	30	880	L14N2-ND	1.50	1.20	.90	.81
9	D	30	1	5/5	8	880	QSC112-ND	.37	.29	.21	.12
	D	30	2	5/5	8	880	QSC113-ND◆	.37	.29	.21	.12
	D	30	4	5/5	8	880	QSC114-ND◆	.37	.29	.21	.12
10	D	30	1.6	7/7	12	880	QSD122-ND◆	.43	.35	.24	.14
	D	30	3.2	7/7	12	880	QSD123-ND◆	.43	.35	.24	.14
	D	30	7.5	7/7	12	880	QSD124-ND◆	.43	.35	.24	.14
11	D	30	1.2	8/8	12	880	QSD722-ND◆	.42	.35	.24	.14
	D	30	3	8/8	12	880	QSD723-ND◆	.42	.35	.24	.14
12	D	30	0.64	8/8	8	880	QSE113-ND◆	.46	.38	.26	.15
	D	30	1.28	8/8	8	880	QSE114-ND◆	.46	.38	.26	.15
	D	30	0.4	8/8	25	880	QSE122-ND◆	.46	.37	.28	.16
	D	30	0.2	8/8	25	880	QSE213C-ND◆	.49	.40	.27	.16
	D	30	1.0	8/8	25	880	QSE214C-ND◆	.49	.40	.27	.16

◆ *RoHS Compliant*

Logic Detectors

Fig.	Circuit	Output Type	VCC	Isink (mA)	Isource (mA)	Rise/Fall (ns)	Reception Angle ±	Peak Wavelength Sensitivity	Digi-Key Part No.	Price Each 1	10	100	500
13	G	T.P. BUFF	4.5 ~ 16	50	10	70	25	880	QSE156-ND	.64	.48	.36	.23
	I	T.P. INV.	4.5 ~ 16	50	10	70	25	880	QSE157-ND	.64	.48	.36	.23
	H	O.C. BUFF	4.5 ~ 16	50	—	100	25	880	QSE158-ND	.62	.47	.35	.22
	J	O.C. INV.	4.5 ~ 16	50	—	100	25	880	QSE159-ND	.62	.47	.35	.22

Fig. 1

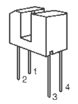

Fig. 2

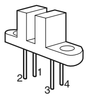

Fig. 3

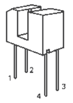

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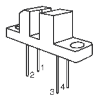

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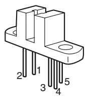

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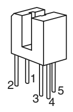

Fig. 7

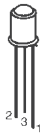

Fig. 8

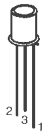

Fig. 9

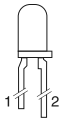

Fig. 10

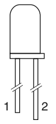

Fig. 11

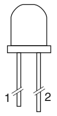

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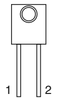

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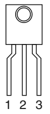

Circuits

A

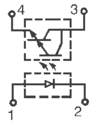

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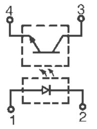

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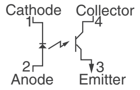

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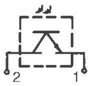

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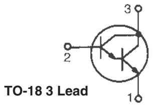

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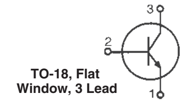

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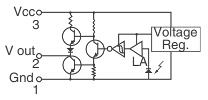

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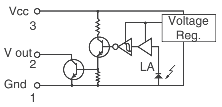

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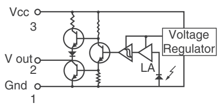

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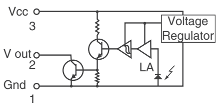

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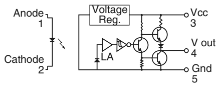

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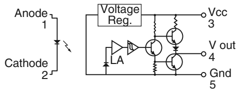

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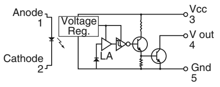

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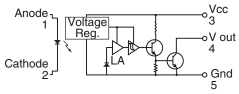

AVAGO
TECHNOLOGIES

Dimensions in mm

Fig. 1

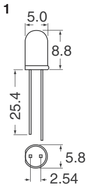

Fig. 2

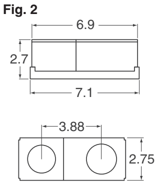

Fig. 3 *NEW!*

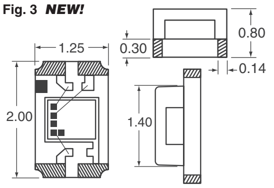

Fig. 4 *NEW!*

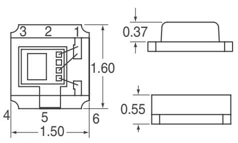

Fig. 5 *NEW!*

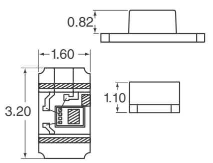

Fig. 6 *NEW!*

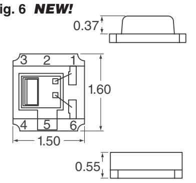

Fig. 7 *NEW!*

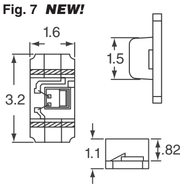

Fig. 8 *NEW!*

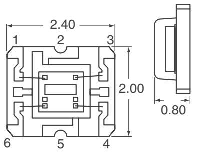

Fig. 9 *NEW!*

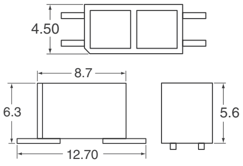

Fig. 10 *NEW!*

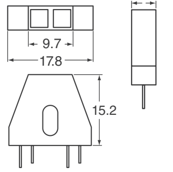

Fig. 11 *NEW!*

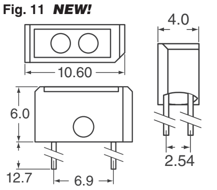

Fig. 12 *NEW!*

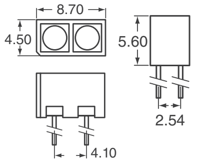

IR Emitter

Absolute Maximum Ratings at T_A = 25°C, λ = 940nm

Fig.	Forward Voltage (V@mA)	If (mA)	Radiant Intensity m/W/sr	Beam Angle	Peak Length (nm)	Digi-Key Part No.	Price Each 1	10	100	Avago Part No.
1	1.15@20	100	4@20mA	50°	940	516 -1260-ND	1.14	.95	.76	HEMT-3301

Surface Mount Proximity Sensor

Fig.	Forward Voltage	If (Maximum)	Supply Voltage (Maximum)	Photo Current (Typical)	Dark Current (Maximum)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	Avago Part No.
2	1.5V	50mA	1.3V	.1mA	10nA	516-1555-1-ND	2.37	1.61	1.25	516-1555-2-ND	1022.00/M	HSDL-9100-021

NEW! Ambient Light Sensors

Digi-Reel®

Fig.	Supply Voltage Range	Light Current Ratio (Typical)	Rise Time (ms)	Fall Time (ms)	Peak Wavelength Sensitivity (nm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	Avago Part No.
3	2.4 ~ 5.5	1.2	0.95	0.8	620	516-1714-1-ND	1.04	.65	.49	516-1714-2-ND	377.00/M	APDS-9002-021
4	2.4 ~ 5.5	1.2	0.95	0.8	620	516-1715-1-ND	1.17	.75	.54	516-1715-2-ND	428.00/M	APDS-9003-020
5	2.4 ~ 5.5	1.2	0.95	0.8	620	516-1716-1-ND	1.21	.78	.56	516-1716-2-ND	442.00/M	APDS-9004-020
6	1.8 ~ 5.5	1.1	5	5	500	516-1717-1-ND	1.25	.80	.58	516-1717-2-ND	456.00/M	APDS-9005-020
7	2.4 ~ 5.5	1.1	5	5	500	516-1718-1-ND	1.37	.87	.65	516-1718-2-ND	513.00/M	APDS-9006-020
8	2 ~ 3.6	1.2	0.2	0.2	560	516-1719-1-ND	1.00	.63	.47	516-1719-2-ND	363.00/M	APDS-9007-020

NEW! Reflective Sensors

Digi-Reel®

Fig.	Forward Voltage (Maximum)	If (Maximum)	Dark Current (Maximum)	Rise / Fall (ms) (Typical)	Operating Temperature Range	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 8,000	Avago Part No.
9	1.6	60mA	100nA	3 / 4	-25°C ~ 85°C	516-1720-1-ND	1.16	.73	.54	516-1720-2-ND	399.00/M	APDS-9101-L21
10	1.6	50mA	100nA	—	-35°C ~ 65°C	516-1721-ND	1.16	.73	.56	—	—	APDS-9102-L22
11	1.6	60mA	100nA	3 / 4	-25°C ~ 85°C	516-1722-ND	1.18	.74	.55	—	—	APDS-9103-L22
12	1.6	60mA	100nA	—	-25°C ~ 85°C	516-1723-ND	1.16	.73	.54	—	—	APDS-9104-L22

LITEON

Infrared Emitting Diodes, Photodetectors and Photodiodes

Features of Infrared Emitting Diodes: • Selected to specific on-line intensity and radiant intensity ranges • Low cost plastic end looking package • Made with gallium aluminum arsenide window layer on gallium arsenide infrared emitting diodes
Features of Photodetectors and Photodiodes: • Lensed for high sensitivity • Low cost plastic package

Dim. in mm

Fig. 1

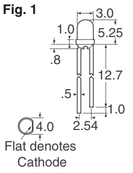

Fig. 2

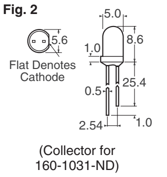

Fig. 3

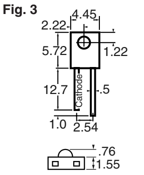

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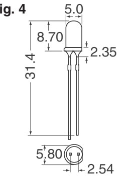

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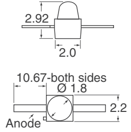

Fig. 6

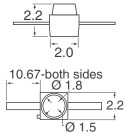

Fig. 7

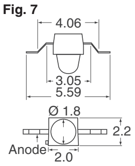

Fig. 8

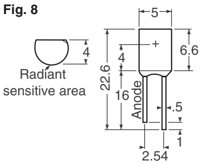

Photodiodes

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100	Lite-On Part No.
8	Black Plastic Diode	160-1032-ND	.47	3.88	31.00	LTR-516AD

Infrared Emitting Diodes

Fig.	Vf	I (ma)	View Angle	Peak Length (nm)	Digi-Key Part No.	Pricing 1	10	100	T & R † Pricing 1,500	Lite-On Part No.
1	1.2	60	20°	940	160-1028-ND	.24	2.00	16.00	—	LTE-4206
2	1.2	50	20°	940	160-1029-ND	.24	2.00	16.00	—	LTE-4208
	1.2	100	40°	940	160-1061-ND	.24	2.00	16.00	—	LTE-5208A
	1.3	100	35°	940	160-1062-ND	.30	2.50	20.00	—	LTE-5228A
3	1.2	50	40°	940	160-1063-ND	.24	2.00	16.00	—	LTE-302
4	1.50	100	30°	875	516-1261-ND	.75	6.25	50.00	—	HSDL-4220
	1.50	100	17°	875	516-1262-ND	.75	6.25	50.00	—	HSDL-4230
	1.40	100	52°	870	516-1706-ND	.39	3.25	26.00	—	HSDL-4261
5	1.50	100	24°	875	516-1263-ND	.75	6.25	50.00	—	HSDL-4420
	1.50	100	24°	875	516-1265-1-ND	.69	5.75	46.00	322.00/M	HSDL-4420#031

Matching Photodetectors

Fig.	Vce	Vec	On-State I (ma)	Rise/Fall (us)	Digi-Key Part No.	Pricing 1	10	100	Lite-On Part No.
1	30	5	2	5	160-1030-ND	.15	1.25	10.00	LTR-4206E
2	30	5	2	5	160-1031-ND	.23	1.88	15.00	LTR-3208E
3	30	5	1	5	160-1065-ND	.23	1.88	15.00	LTR-301

IR Detectors

Fig.	Output Cur. (µA)	Dark Cur. (nA)	Peak Sensitivity (nm)	Forward Voltage (Typical)	View Angle	Digi-Key Part No.	Pricing 1	10	100	T & R † Pricing 1,500	Lite-On Part No.
6	1.6	1	875	0.8V	110°	516-1266-ND	.51	4.25	34.00	—	HSDL-5400
5	6.0	1	875	0.8V	28°	516-1267-ND	.51	4.25	34.00	—	HSDL-5420
7	6.0	1	875	0.8V	28°	516-1268-1-ND	.54	4.50	36.00	252.00/M	HSDL-5420#031

† For Tape and Reel part number, change 1-ND to 2-ND.   Absolute Maximum Ratings at T_A = 25°C, λ = 940nm

N

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OMRON

Amplified Mini Optical Sensors with Pin Point Beam

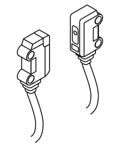

- Miniature optical sensor with “Pin-point” beam for sensing minute objects (1-2mm diameter)
- Use both indoors or outdoors for detecting where small body size is desired
- Perfect for security, conveyor detection as well as emergency stop detection and limit control and more
- Sensor not affected by ambient light
- Comes standard with 2 meter molded cords attached
- Terminal Type: 2m Cable

Sensing Method	Mounting Type/Features	Distance (Max.) Inches (M/mm)	Digi-Key Part No.	Price Each 1	25	100	Omron Part No.
Through-Beam	Side/Light-On	39.37 (1M)	OR591-ND	108.08	97.28	91.87	E3T-ST11
	Side/Dark-On	39.37 (1M)	OR592-ND	108.08	97.28	91.87	E3T-ST12
Convergent Beam	Light-On	.59 (15mm)	Z1104-ND	67.13	62.16	53.88	E3T-SL11
	Dark-On	.59 (15mm)	Z1105-ND	67.13	62.16	53.88	E3T-SL12
Optional Flat Reflector for distances of 10-100 mm			Z2429-ND◆	6.25	5.79	5.02	E39-R37

◆ ***RoHS Compliant***

Amplified Optical Sensors

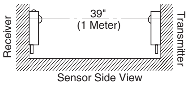

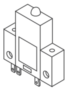

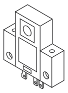

1 Meter (39 Inches) Sensing Distance!

- One meter sensing distance
- Supply voltage of 5 ~ 24 VDC for easy interface with TTL circuits, relays and programmable controllers
- IP60 sealability rating. Comes with (2) – 2m cables with connectors

Description	Digi-Key Part No.	Price Each	Omron Part No.
Through-Beam Receiver/Transmitter Pair - Dark on	OR544-ND	102.60	EE-SPW311
Through-Beam Receiver/Transmitter Pair - Light on	OR545-ND	102.60	EE-SPW411

Long Distance Amplified Optical Sensors

Fig. 1 — Horizontal

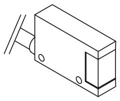

Fig. 2 — Vertical

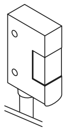

These general purpose optical sensors are small DC Sensors (10 ~ 30VDC Input) available in both a transmitter-receiver pair or a reflected beam type with sensing distances of 23 feet (7 meters).

Ideal for conveyor systems and doorway sensing with direct interface to PLC’s.

Meets NEMA 4X, 6 and IP67 standards.

Through-beam sensors include separate transmitter and receiver.

Reflective sensors include transceiver and E39-R1 reflector.

Horizontal mount sensors include mounting bracket.

All sensors include mounting hardware.

Fig.	Sensing Method	Mounting Type/Features	Dist. (Max.) Ft. (M)	Terminal Type	Digi-Key Part No.	Price Each 1	25	100	Omron Part No.
1	Through-Beam	Horizontal	22.97 (7)	2m Cable	OR584-ND	236.60	212.94	170.36	E3S-AT11
	Reflective		6.56 (2)		OR585-ND	203.00	182.70	146.16	E3S-AR11
2	Through-Beam	Vertical	22.97 (7)	2m Cable	OR586-ND	189.28	170.36	160.89	E3S-AT61
	Reflective		6.56 (2)		OR587-ND	203.00	182.70	146.16	E3S-AR61
—	Mounting Bracket for Vertical Sensors (2 required for Through-Beam Type)				OR588-ND	6.72	6.05	4.84	E39-L59
—	Light Reflector for Confirming Optical Alignment during Setup (Clips onto Receiver)............				OR589-ND	15.90	14.32	13.52	E39-R5

Amplified Optical Sensors

Fig. 1

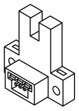

Fig. 2

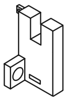

Fig. 3

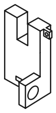

Fig. 4

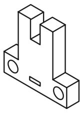

EE-SPX74/84 series of optical sensors feature a snap in connector which provides excellent shock and vibration resistance and prevents accidental disconnection of the sensor.

Fig.	Sensing Method	Sensing Distance	Output Type	Output	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Slot	3.6mm	NPN	Dark-On	OR615-ND	82.35	74.12	65.88	EE-SPX740
				Light-On	OR616-ND	82.35	74.12	65.88	EE-SPX840
2	Slot	3.6mm	NPN	Dark-On	OR617-ND	82.35	74.12	65.88	EE-SPX742
				Light-On	OR618-ND	82.35	74.12	65.88	EE-SPX842
3	Slot	3.6mm	NPN	Dark-On	OR619-ND	82.35	74.12	65.88	EE-SPX743
				Light-On	OR620-ND	82.35	74.12	65.88	EE-SPX843
4	Slot	3.6mm	NPN	Dark-On	OR621-ND	82.35	74.12	65.88	EE-SPX741
				Light-On	OR622-ND	82.35	74.12	65.88	EE-SPX841
Snap-In connector w/cable for EE-SPX74/84 Series					OR623-ND◆	5.81	5.23	4.65	EE-1013

◆ ***RoHS Compliant***

Non-Amplified Optical Sensors

RoHS COMPLIANT

Fig. 1

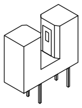

Fig. 2

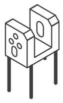

Fig. 3

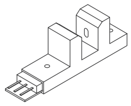

Fig.	Sensing Method	Sensing Distance	Terminal Type	Switch Time (MS)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Slot	5mm	PC Board	4/4	OR627-ND	1.75	1.58	1.40	EE-SX1081
		2mm			OR624-ND	1.75	1.58	1.40	EE-SX1018
		5mm			OR625-ND	1.63	1.47	1.30	EE-SX1041
		3.4mm			OR626-ND	1.75	1.58	1.40	EE-SX1071
		3mm			OR631-ND	1.73	1.56	1.38	EE-SX198NC
		3mm			OR632-ND	1.75	1.58	1.40	EE-SX199
2	Slot	2mm	PC Board	10/10	OR633-ND	1.28	1.15	1.02	EE-SX1103
		2mm			OR634-ND	1.28	1.15	1.02	EE-SX1105
		3mm			OR635-ND	1.28	1.15	1.02	EE-SX1106
3	Slot	5mm	AMP Connect	3KHz	OR629-ND	3.78	3.40	3.02	EE-SX4009-P1
			Molex Connect		OR630-ND	4.68	4.21	3.74	EE-SX4009-P10

Non-Amplified Optical Sensors SMT

RoHS COMPLIANT

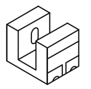

SMT compact size makes these sensors ideal for use in applications with restricted space. Dual channel model (EE-SX1131) is ideal for encoder applications.

Sensing Method	Sensing Distance	Term. Type	Type On/Off	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Omron Part No.
Slot (Dual)	2mm	SMT	10/10	OR628CT-ND	1.28	1.15	1.02	OR628TR-ND	2,000	637.50/M	EE-SX1131
Slot	1mm	SMT	10/10	OR636CT-ND	1.28	1.15	1.02	OR636TR-ND	2,500	637.50/M	EE-SX1107
	2mm			OR637CT-ND	1.28	1.15	1.02	OR637TR-ND	2,000	637.50/M	EE-SX1108
	3mm			OR638CT-ND	1.28	1.15	1.02	OR638TR-ND	1,000	637.50	EE-SX1109

API

Advanced Photonix, Inc.
Previously **Photonic Detectors**

Silicon Detectors and Emitters

Fig. 1 – Ceramic, Epoxy Glob

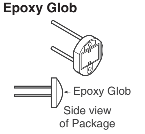

Fig. 2 – Ceramic, Epoxy Filled

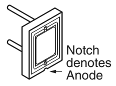

Fig. 3 – Plastic Pkg.

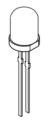

Fig. 4 – Flat Top

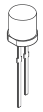

Fig. 5 – Plastic Side-looker

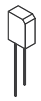

Fig. 6 – Plastic Side-looker

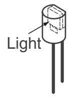

Fig. 7

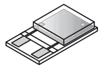

Fig. 8 – 1206 SMT Pkg.

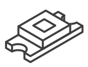

Fig. 9 – Mini SMT Pkg.

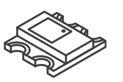

Fig. 10

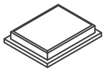

Fig. 11

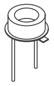

Fig. 12 – Flat Window

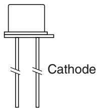

Fig. 13

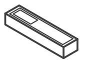

Fig. 14 – Solderable Photo Cell

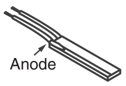

Fig. 15 – Solderable Photo Cell

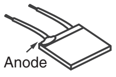

Fig. 16

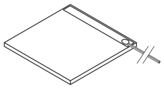

Fig. 17

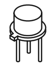

Fig. 18

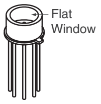

Fig. 19 – 16 Element Array

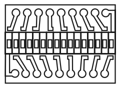

Fig. 20 – 32 Element Array

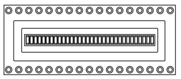

Fig. 21

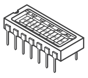

Photo Detectors

Fig.	Active Area (mm)	Short Cir. Curr. (Isc) (uA) Typ.	Dark Curr. (Id) (nA) Max	Sensitivity Wavelength (nm)			Junction Cap. (pF) Typ.	Response Time (nS) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each			
				Min.	Peak	Max.					1	5	25	100
Blue Enhanced Photo Conductive Detectors, Curve Line B														
1	17.74	235	50	350	950	1,100	100	20	120	PDB-C107-ND◆	12.45	—	8.06	7.55
2	100	1,300	30	350	950	1,100	300	25	120	PDB-C110-ND◆	60.49	—	46.08	43.89
1	7.95	110	30	350	950	1,100	60	16	120	PDB-C113-ND	11.90	—	9.72	9.11
3	1.55	60	30	400	950	1,100	6	10	30	PDB-C134-ND◆	2.19	—	1.30	1.09
4	4.10	67	30	400	950	1,100	18	50	61	PDB-C139-ND◆	3.30	—	2.04	1.80
1	29.02	400	25	350	950	1,100	200	18	120	PDB-C140-ND	11.29	—	8.06	7.74
3	4.10	150	30	400	950	1,100	18	50	59	PDB-C142-ND◆	3.30	—	2.04	1.80
5	8.02	90	15	400	950	1,100	10	15	120	PDB-C156-ND◆	3.37	—	2.00	1.68
6	9.00	145	30	400	950	1,100	10	50	120	PDB-C158-ND	3.37	—	2.00	1.68
7	7.95	110	10	350	950	1,100	60	100	—	PDB-C165-ND◆	10.98	—	7.11	6.66
8	0.74	10	10	400	950	1,100	15	50	140	PDB-C152SMCT-ND◆	2.37	—	1.40	1.18
8	0.74	10	10	400	950	1,100	15	50	140	PDB-C152SMTR-ND◆		2870.28/3,000		
9	2.10	25	10	400	950	1,100	4	10	—	PDB-C154SMCT-ND	2.50	—	1.48	1.25
9	2.10	25	10	400	950	1,100	4	10	—	PDB-C154SMTR-ND		2026.08/2,000		
10	7.67	90	30	400	900	1,100	15	20	—	PDB-C171SMCT-ND	3.13	—	1.85	1.56
10	7.67	90	30	400	900	1,100	15	20	—	PDB-C171SMTR-ND		1266.30/1,000		
Photo Conductive Detectors with Daylight Filter, Curve Line D														
3	1.55	60	30	700	950	1,100	6	10	30	PDB-C134F-ND◆	2.19	—	1.30	1.09
4	4.10	67	30	700	950	1,100	18	50	61	PDB-C139F-ND◆	3.30	—	2.04	1.80
3	4.10	150	30	700	950	1,100	18	50	40	PDB-C142F-ND◆	3.30	—	2.04	1.80
5	8.02	90	15	700	950	1,100	10	15	120	PDB-C156F-ND	3.37	—	2.00	1.68
6	9.00	145	30	700	950	1,100	10	50	120	PDB-C158F-ND	3.37	—	2.00	1.68
9	2.10	25	10	700	950	1,100	4	10	—	PDB-C154SMFCT-ND	2.50	—	1.48	1.25
Blue Enhanced Photovoltaic Detectors, Curve Line B														
11	1.17 x 2.64	40	300	350	—	1,100	340	190	65	PDB-V104-ND◆	41.74	—	34.52	32.37
1	17.74	200	0.80	350	950	1,100	2,000	1,000	120	PDB-V107-ND	9.97	—	6.46	6.05
2	100	1,200	0.333	350	950	1,100	10,000	2,000	120	PDB-V110-ND◆	58.18	—	44.33	42.21
1	7.95	80	0.50	350	950	1,100	800	750	120	PDB-V113-ND	11.56	—	7.48	7.01
11	3.15 x 5.69	230	550	350	—	1,100	2,000	190	63	PDB-V114-ND◆	46.11	—	38.14	35.76
U.V. Enhanced Photovoltaic Detectors, Curve Line A — RoHS Compliant														
12	2.98	40	0.01	190	—	1,100	340	450	65	PDU-V104-ND	34.07	—	26.52	24.91
12	17.63	230	0.05	190	—	1,100	2,000	900	63	PDU-V114-ND	35.95	—	25.64	24.64
Red Enhanced Solderable Photo Cells, Curve Line B														
13	1.88 x 0.56	17	2.00	350	—	1,100	10	10	—	PDB-C601-1-ND◆	2.49	—	1.51	1.30
13	1.88 x 0.56	13	7.00	350	—	1,100	250	300	—	PDB-V601-1-ND◆	2.49	—	1.51	1.30
14	14.50	185	35	350	940	1,100	125	25	—	PDB-C607-2-ND	11.03	—	7.14	6.69
15	42.40	545	75	350	940	1,100	240	30	—	PDB-C609-2-ND◆	10.91	—	7.06	6.61
16	6.07 x 6.98	545	75	350	—	1,100	240	30	—	PDB-C609-3-ND◆	10.68	—	8.02	7.37
16	6.07 x 6.98	545	100	350	—	1,100	5,500	1,500	—	PDB-V609-3-ND◆	10.68	—	8.02	7.37
14	68.70	900	150	350	940	1,100	300	45	—	PDB-C612-2-ND	17.37	—	11.77	11.26
14	3.91 x 17.55	800	80	350	—	1,100	9,000	2,800	—	PDB-V612-2-ND	14.67	—	11.02	10.12
15	86.40	1,000	180	350	940	1,100	350	50	—	PDB-C613-2-ND◆	14.34	—	9.72	9.30
14	232.70	2,800	700	350	940	1,100	775	150	—	PDB-C615-2-ND◆	27.94	—	19.93	19.15
14	9.25 x 25.17	2,800	700	350	—	1,100	25,800	7,000	—	PDB-V615-2-ND◆	41.66	—	34.46	32.31
14	62.91	650	135	350	940	1,100	285	40	—	PDB-V617-2-ND	17.35	—	11.22	10.52
Blue Enhanced Bi-Cells, Quadrants and Multi-Element Detector Arrays, Curve Line B														
17	3.23‡	75	2.00	350	950	1,100	15	8	72	PDB-C201-ND◆§	20.94	—	14.94	14.36
18	1.61‡	50	1.00	350	950	1,100	8	7	71	PDB-C203-ND◆◊	30.08	—	21.45	20.62
19	2.31‡	28	5.00	350	950	1,100	40	800	—	PDB-C216-ND	64.65	—	49.25	46.90
20	1.47‡	11	0.15	350	950	1,100	30	200	—	PDB-C232-ND	195.96	—	160.80	155.16
21	2.03 x 0.97‡	—	2.70	350	—	1,100	28	190	—	SD219-51-03-301-ND◆	294.99	—	247.82	—
Photo Conductive Silicon Photodiodes														
23	2.90	38	1.00	400	950	1,100	60	100	—	PDB-C168-ND	8.59	—	5.56	5.21
23	8.10	102	30	400	950	1,100	25	50	—	PDB-C169-ND	8.59	—	5.56	5.21
23	1.70	27	0.60	400	950	1,100	30	100	—	PDB-C170-ND	8.59	—	5.56	5.21
10	7.67	85	30	840	900	1,050	15	20	—	PDI-C172SMFCT-ND	3.13	—	1.85	1.56
10	7.67	85	30	840	900	1,050	15	20	—	PDI-C172SMFTR-ND		1266.30/1,000		
10	7.67	90	30	600	900	1,050	15	20	—	PDV-C173SMCT-ND◆	3.13	—	1.85	1.56
InGaAs Photodetectors — RoHS Compliant														
17	.200	—	1.00	800	—	1,700	0.75	0.18 (max.)	—	SD004-11-41-211-ND	20.09	—	15.64	14.69
17	.200	—	5.00	800	—	1,700	0.95	0.23 (max.)	88	SD008-11-41-211-ND	48.73	—	40.31	37.80
17	.200	—	5.00	800	—	1,700	6	1.15 (max.)	88	SD012-11-41-211-ND	49.61	—	41.03	38.47
17	1.50	—	50	800	—	1,700	250	10.0 (max.)	113	SD060-11-41-211-ND	172.91	—	148.89	144.90
Gallium Nitride (GaN) Detectors — RoHS Compliant														
11	0.076	1.0	100,000	200	—	365	24	10	61	PDU-G101A-ND	14.02	—	10.53	9.67
11	0.076	1.0	100,000	200	—	320	24	10	61	PDU-G102B-ND	16.22	—	12.18	11.18
24	—	.001	100,000	200	—	365	24	10	—	PDU-G105A-SM-ND	10.40	—	7.81	7.17
24	—	.001	100,000	200	—	320	24	10	—	PDU-G106B-SM-ND	10.97	—	8.24	7.57
Silicon Avalanche Photodiode — RoHS Compliant														
17	0.30	—	10	400	—	1,100	—	1	—	SD012-70-62-541-ND	126.92	—	107.91	101.66
17	0.90	—	30	400	—	1,100	—	2	—	SD036-70-62-531-ND	137.28	—	116.72	109.96
25	5.00	—	18	350	—	1,050	25	10	—	SD197-70-72-591-ND	944.17	—	—	—
25	5.00	—	18	350	—	1,050	25	10	—	SD197-70-74-591-ND	944.17	—	—	—
25	10	—	35	350	—	1,050	50	12	—	SD394-70-72-591-ND	1295.28	—	—	—
25	10	—	35	350	—	1,050	50	12	—	SD394-70-74-591-ND	1295.28	—	—	—
26	16	—	600	350	—	1,050	130	15	—	SD630-70-72-500-ND	1621.79	—	—	—
26	16	—	600	350	—	1,050	130	15	—	SD630-70-73-500-ND	1621.79	—	—	—
26	16	—	600	350	—	1,050	130	15	—	SD630-70-74-500-ND	1621.79	—	—	—
26	16	—	600	350	—	1,050	130	15	—	SD630-70-75-500-ND	1621.79	—	—	—
Red Enhanced Silicon Photodiode														
17	0.83 x 1.02	—	8.00	350	—	1,100	5.6	190	91	SD041-11-33-211-ND◆	21.70	—	16.90	15.87
18	0.50‡	—	0.40	350	—	1,100	15	190	67	SD055-23-21-211-ND◆◊	52.47	—	43.40	40.69
11	1.30	—	2.00	350	—	1,100	28	190	51	SD057-11-21-011-ND◆	23.50	—	18.30	17.18
11	1.30	—	0.50	350	—	1,100	28	190	51	SD057-14-21-011-ND◆	23.50	—	18.30	17.18
17	0.58 x 1.19	—	1.00	350	—	1,100	15	190	42	SD066-24-21-011-ND◆§	29.70	—	23.12	21.71
17	1.09 x 2.67	—	30	350	—	1,100	17.5	190	59	SD076-11-31-211-ND◆	28.91	—	22.51	21.14
22	1.09 x 2.67	—	0.90	350	—	1,100	50	190	55	SD076-14-21-011-ND◆	21.35	—	16.62	15.61
18	1.50‡	—	3.50	350	—	1,100	45	190	86	SD085-23-21-021-ND◆◊	42.61	—	35.25	33.05
17	2.54	—	6.40	350	—	1,100	87	190	90	SD100-11-21-221-ND◆	26.21	—	20.40	19.16
17	2.54	—	50	350	—	1,100	28	190	90	SD100-11-31-221-ND◆	30.57	—	23.80	22.35
17	2.54	—	1.60	350	—	1,100	87	190	82	SD100-14-21-021-ND◆	23.10	—	17.98	16.89
18	2.54	—	10	250	—	1,100	87	—	—	SD100-41-21-231-ND◆▲	90.12	—	76.62	72.18
27	2.54 x 2.18	—	—	350	—	1,100	—	—	—	SD112-42-11-221-ND◆▲	70.36	—	56.51	54.57
27	2.54 x 2.18	—	—	350	—	1,100	—	—	—	SD112-43-11-221-ND◆▲	63.28	—	52.34	49.08
17	2.54 x 1.22‡	—	5.00	350	—	1,100	60	190	80	SD113-24-21-021-ND◆§	31.18	—	24.28	22.80
18	1.07‡	—	2.50	350	—	1,100	35	190	113	SD118-23-21-021-ND◆◊	38.00	—	28.61	27.78
17	4.57 x 0.51‡	—	3.50	350	—	1,100	45	190	119	SD160-24-21-021-ND◆§	30.14	—	23.46	22.03
17	3.20 x 4.70	—	20	350	—	1,100	255	190	79	SD172-11-21-221-ND◆	35.64	—	26.83	26.06
17	3.20 x 4.70	—	147	350	—	1,100	82	190	79	SD172-11-31-221-ND◆	35.64	—	26.83	26.06
18	4.98‡	—	7.50	350	—	1,100	100	190	82	SD197-23-21-041-ND◆◊	95.30	—	81.03	76.34
17	5.08	—	26	350	—	1,100	345	190	95	SD200-11-21-241-ND◆	41.05	—	30.91	30.01
17	5.08	—	200	350	—	1,100	110	190	95	SD200-11-31-241-ND◆	36.86	—	27.75	26.95
28	5.71 x 2.03‡	—	6.50	350	—	1,100	102	190	—	SD225-23-21-040-ND◆◊	57.56	—	47.61	44.64
17	5.59 x 7.62	—	425	350	—	1,100	235	190	90	SD290-11-31-241-ND◆	43.17	—	35.71	33.48

‡ Per Element § Bi-cell ◊ Quad ▲ Detector/Amplifier ◆ ***RoHS Compliant***

(Continued)

API
Advanced Photonix, Inc.
Previously Photonic Detectors

Silicon Detectors and Emitters

Fig. 22 – Lens Window

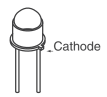

Fig. 23

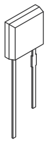

Fig. 24

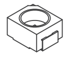

Fig. 25

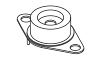

Fig. 26

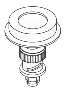

Fig. 27

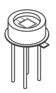

Fig. 28

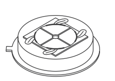

Fig. 29

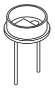

Fig. 30

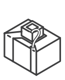

Fig. 31

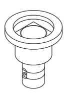

Fig. 32

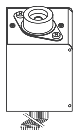

Fig. 33

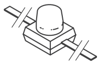

Fig. 34

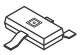

Fig. 35

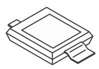

Fig. 36

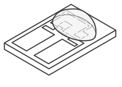

Fig. 37

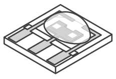

Fig. 38

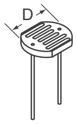

Curve Graph

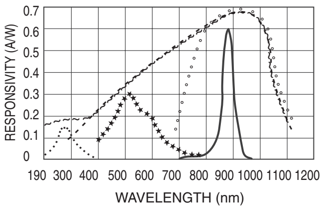

A(~) U.V. Enhanced Silicon Detectors
B(-) Blue Enhanced Silicon Detectors
C(. .) Silicon Carbide U.V. Detectors
D(˚) Daylight Filter Detectors
E(–) GaAIAs Photodiodes
F(⋆) CdS Photoconductive Cells
(relative responsivity)

Photo Detectors *(Cont.)*

Fig.	Active Area (mm)	Short Cir. Curr. (Isc) (uA) Typ.	Dark Curr. (Id) (nA) Max	Sensitivity Wavelength (nm)			Junction Cap. (pF) Typ.	Response Time (nS) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each			
				Min.	Peak	Max.					1	5	25	100
18	9.65‡	—	27	350	—	1,100	375	190	107	SD380-23-21-051-ND◆◊	121.44	—	103.25	97.27
18	9.65‡	—	27	350	—	1,100	375	190	120	SD380-23-21-251-ND◆◊	143.82	—	122.28	115.19
17	—	—	31	350	—	1,100	390	190	—	SD385-24-21-041-ND◆§	40.88	—	30.78	29.89
18	11.30	—	150	250	—	1,100	1,700	—	—	SD444-41-21-261-ND▲	349.52	—	309.18	—
2	1.00	—	120	350	—	1,100	1,700	190	120	SD445-11-21-305-ND◆	43.80	—	36.23	33.97
2	1.00	—	30	350	—	1,100	1,700	190	120	SD445-14-21-305-ND◆	43.80	—	36.23	33.97
Blue Enhanced Silicon Photodiodes — RoHS Compliant														
29	5.31 x 8.10	500	15	350	—	1,100	120	190	79	PDB-C109-ND	42.61	—	35.25	33.05
30	0.33 x 0.33	1.5	2.00	350	—	1,100	5	190	—	PDB-C122-ND	—	39.31	30.60	28.74
7	1.17 x 2.64	25	10	350	—	1,100	7	190	—	PDB-C164-ND	21.14	—	16.46	15.46
17	2.54	—	6.40	350	—	1,100	87	190	82	SD100-12-22-021-ND	22.71	—	17.68	16.61
18	2.54	—	10	250	—	1,100	87	—	—	SD100-42-22-231-ND▲	90.12	—	76.62	72.18
27	2.54 x 2.18	—	—	—	—	—	—	—	—	SD112-45-11-221-ND▲	67.89	—	54.53	52.65
17	5.08	—	26	350	—	1,100	345	190	83	SD200-12-22-041-ND	41.05	—	30.91	30.01
17	5.08	—	26	350	—	1,100	345	190	95	SD200-12-22-241-ND	41.98	—	34.72	32.56
17	5.59 x 7.62	—	52	350	—	1,100	725	190	90	SD290-12-22-241-ND	43.17	—	35.71	33.48
31	11.28	—	52	350	—	1,100	725	190	95	SD444-12-12-171-ND	144.27	—	122.66	115.55
18	11.30	—	150	250	—	1,100	1,700	—	—	SD444-42-22-261-ND▲	349.52	—	309.18	—
UV Enhanced Silicon Photodiodes — RoHS Compliant														
17	2.54	—	6.50	250	—	1,100	87	190	90	SD100-13-23-222-ND	38.87	—	29.26	28.42
18	2.54	—	10	250	—	1,100	87	—	—	SD100-43-23-232-ND▲	90.12	—	76.62	72.18
17	5.08	—	30	250	—	1,100	345	190	95	SD200-13-23-242-ND	64.79	—	52.04	50.25
18	11.30	—	150	250	—	1,100	1,700	—	—	SD444-43-23-262-ND▲	349.52	—	309.18	—
Silicon Avalanche Photodiodes Module — RoHS Compliant														
32	5.00	—	—	350	—	1,050	—	—	—	SD197-70-72-661-ND	2362.45	—	—	—
32	5.00	—	—	350	—	1,050	—	—	—	SD197-70-74-661-ND	2362.45	—	—	—
32	10.00	—	—	350	—	1,050	—	—	—	SD394-70-72-661-ND	2617.85	—	2466.15	—
32	10.00	—	—	350	—	1,050	—	—	—	SD394-70-74-661-ND	2617.85	—	2466.15	—
Plastic Photodiode — RoHS Compliant														
33	0.61	10	10	700	—	1,100	25	6	48	PDB-C144-ND	2.75	—	1.75	1.58
33	0.43	10	30	400	—	1,100	5	6	48	PDB-C145-ND	2.75	—	1.75	1.58
34	0.43	2.0	30	400	—	1,100	1	6	120	PDB-C150SM-ND	5.13	—	3.08	2.94
6	2.84	120	30	400	—	1,100	30	50	120	PDB-C157-ND	2.81	—	1.70	1.46
35	2.65	90	30	400	—	1,100	15	20	120	PDB-C160SM-ND	2.60	—	1.58	1.36

‡ Per Element § Bi-cell ◊ Quad ▲ Detector/Amplifier ◆ ***RoHS Compliant***

Oximeter Components

Fig.	661nm					880/905/940nm					Digi-Key Part No.	Price Each			
	Forward Voltage (V) Typ.	Reverse Breakdown (V)	Peak Wavelength (nm) Typ.	Spectral Bandwidth (nm) Typ.	Rise/Fall Time (µS) Typ.	Forward Voltage (V) Typ.	Reverse Breakdown (V)	Peak Wavelength (nm) Typ.	Spectral Bandwidth (nm) Typ.	Rise/Fall Time (µS) Typ.		1	25	100	250
36	1.8	5	661	25	0.1/0.04	1.2	5	905	50	1.4/0.7	PDI-E832-ND	10.63	6.88	6.45	6.17
36	1.8	5	661	25	0.8/0.8	1.3	5	940	50	0.8/0.8	PDI-E833-ND◆	41.66	34.46	32.31	31.52
37	1.8	5	661	25	0.8/0.8	1.3	5	940	50	0.8/0.8	PDI-E835-ND◆	11.26	7.29	6.83	6.53
37	1.8	5	661	21	0.1/0.04	1.3	5	880	50	0.8/0.8	PDI-E837-ND◆	41.66	34.46	32.31	31.52
36	1.8	5	661	21	0.1/0.04	1.2	5	880	50	0.8/0.8	PDI-E838-ND◆	41.66	34.46	32.31	31.52

◆ ***RoHS Compliant***

High Power Infrared Emitters

Fig.	Forward Voltage (V) Typ.	Forward Current (mA) Con.	Output Power (mW) Typ.	Beam Angle (2x Theta)	Peak Wavelength (nm) Typ.	Digi-Key Part No.	Price Each			
							1	25	100	250
12	1.5	100	5.6	60	880	PDI-E801-ND	15.27	10.35	9.90	9.52
22	1.5	100	5	10	880	PDI-E802-ND◆	15.27	10.35	9.90	9.52
22	1.5	100	9	6	880	PDI-E803-ND	15.27	10.35	9.90	9.52
22	1.5	100	20	80	880	PDI-E804-ND◆	9.62	6.23	5.83	5.58
22	1.5	100	10	5	880	PDI-E805-ND	14.68	9.95	9.52	9.15
3	1.5	100	30 (max.)	35	880	PDI-E808-A-ND	11.64	8.74	8.03	7.79
3	1.6	100	90	—	880	PDI-E809-ND◆	11.64	8.74	8.03	7.79
22	1.5	180	15	—	880	PDI-E813-ND◆	45.00	37.22	34.90	34.05
22	1.7	100	2.7	—	850	PDI-E825-ND◆	30.40	23.67	22.22	21.46
34	1.2	100	0.7	—	940	PDI-E940SM-ND◆	11.64	8.74	8.03	7.79

◆ ***RoHS Compliant***

Photoconductive Cells

Fig.	Dim. D (mm)	Cell Resistance‡				Peak Wavelength (nm) Typ.	Rise/Fall Time (ms) Typ.	Digi-Key Part No.	Price Each			
		10 Lux @ 2856K		Dark								
		Min. (KΩ)	Max. (KΩ)	Min. (MΩ)	SEC				1	25	100	250
38, Curve Line F	11.00	8	16	0.3	10	520	55/25	PDV-P5001-ND	2.96	1.75	1.47	1.39
		12	30	0.5				PDV-P5002-ND	2.96	1.75	1.47	1.39
		12	58	1				PDV-P5003-ND	2.96	1.75	1.47	1.39
	7.20	4	20	0.5	10	520	55/20	PDV-P7002-ND◆	2.46	1.49	1.28	1.22
	5.10	3	11	0.2	10	520	50/20	PDV-P8001-ND	2.19	1.30	1.09	1.03
		40	120	1			60/25	PDV-P8005-ND	2.19	1.30	1.09	1.03
		80	240	5			60/25	PDV-P8006-ND	2.19	1.30	1.09	1.03
		4	11	0.15			55/20	PDV-P8101-ND	2.19	1.30	1.09	1.03
		9	20	0.3			60/25	PDV-P8102-ND	2.19	1.30	1.09	1.03
		16	33	0.5			60/25	PDV-P8103-ND◆	1.82	1.11	.95	.91
		27	60	2			60/25	PDV-P8104-ND◆	1.82	1.11	.95	.91
		50	94	2.5			60/25	PDV-P8105-ND◆	1.82	1.11	.95	.91
		80	240	20			60/25	PDV-P8107-ND	2.19	1.30	1.09	1.03
	4.20	4	11	0.3	10	520	60/25	PDV-P9001-ND	1.77	1.05	.89	.84
		9	20	0.5				PDV-P9002-ND	1.77	1.05	.89	.84
		11	20	0.5				PDV-P9002-1-ND	1.77	1.05	.89	.84
		16	33	1				PDV-P9003-ND	1.77	1.05	.89	.84
		23	33	1				PDV-P9003-1-ND	1.77	1.05	.89	.84
		27	60	2	10	520	60/25	PDV-P9004-ND	1.77	1.05	.89	.84
		50	94	2.5				PDV-P9005-ND	1.77	1.05	.89	.84
		48	140	20				PDV-P9005-1-ND	1.77	1.05	.89	.84
		80	200	5				PDV-P9006-ND	1.77	1.05	.89	.84
		10	100	1				PDV-P9007-ND	1.77	1.05	.89	.84
		10	200	20	10	520	60/25	PDV-P9008-ND	1.77	1.05	.89	.84
		20	45	1			60/25	PDV-P9103-ND	1.77	1.05	.89	.84
		10	50	5			70/15	PDV-P9200-ND	1.77	1.05	.89	.84
		5	20	20			70/15	PDV-P9203-ND	1.77	1.05	.89	.84

◆ ***RoHS Compliant*** ‡ Photocells are light adapted at 100 to 500 Lux.

TDK Visible Radiant Optical Sensors — Photodiodes

Dimensions in mm

These photodiodes use an amorphous silicone semiconductor on the glass substrate. They are the most suitable for brightness adjustment and control of lighting systems.
Features: • Highly receptive to visible light but not receptive to infrared light (close to human eye visibility) • Accurate illumination measurement can be taken without the use of an infrared filter
Specifications: • Operating Temperature: -20°C ~ 85°C • Spectral Sensitivity Area: 350 ~ 750nm • Peak of sensitivity: 580nm ±20
Applications: • Brightness control for LCD, EL, and CRT • Brightness control for keypads (e.g., mobile phones) • Positioning scan line for rear projection TV • Exposure adjust for compact camera • Sub exposure adjust for digital camera

Fig. 1

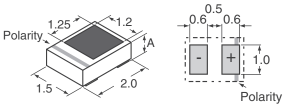

Fig. 2

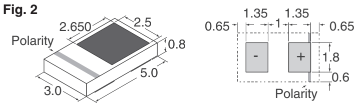

Fig.	Max. Output Current (µA) (VR=5V)	Max. Reverse Bias Voltage (V)	Max. Dark Current (pA) VR=.05V	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	TDK Part No.
1	0.16	10	10	0.6	445-2589-1-ND	3.62	2.50	445-2589-2-ND	4,000	1654.00/M	BCS2015G1
	0.13	6	10	.25	445-2591-1-ND	3.62	2.50	—	—	—	BCS2015H1
2	0.55	6	100	—	445-2590-1-ND	6.24	4.75	445-2590-2-ND	3,000	3371.00/M	BCS5030G1

OSRAM Optoelectronics

Opto Semiconductors

Photodiodes

Fig.	Fwd. Volt. (V)	Photo Cur. (µA)	Dark Cur. (nA)	Peak Wavelength (nm)	Rise/Fall Time (ns)	View Angle (°)	Digi-Key Part No.	Bulk Price Each 1	Bulk Price Each 10	Bulk Price Each 100	Osram Part No.
1	1.3	50	2	880	20	120	475-1072-ND	.76	.61	.56	BPW34FA
2	1.3	50	1	900	5	40	475-1075-ND	.78	.63	.57	SFH203FA
	1.3	135	1	850	5	20	475-1077-ND	.72	.58	.53	SFH213
3	1.3	80	2	850	20	120	475-1076-ND	.92	.74	.67	SFH206K
	1.3	60	2	950	20	120	475-1429-ND ***NEW!***	.72	.58	.53	SFH 205 F
	1.3	60	2	900	20	120	475-1430-ND ***NEW!***	.72	.58	.53	SFH 205 FA
4	1.3	28	.05	860	10	34	475-1078-ND	.58	.47	.43	SFH229
	1.3	20	.05	900	10	34	475-1079-ND	.58	.47	.43	SFH229FA
5	—	100	0.1	850	5	30	475-1435-ND ***NEW!***	.60	.48	.44	SFH 2505-Z
	—	—	0.1	900	5	30	475-1436-ND ***NEW!***	.60	.48	.44	SFH 2505 FA-Z
6	—	—	0.1	900	5	30	475-1434-ND ***NEW!***	.60	.48	.44	SFH 2500 FA-Z
7	1.3	—	1	900	5	150	475-1428-ND ***NEW!***	.90	.72	.66	SFH 203 PFA
8	1.3	50	2	880	20	120	475-1346-ND ***NEW!***	.94	.76	.69	BPW 34 FASR-Z
9	1.3	55	2	850	20	120	475-1345-1-ND ***NEW!***	.84	.68	.61	BP 104 S-Z
	1.3	55	2	850	20	120	475-1345-2-ND ***NEW!***	945.00/1500			BP 104 S-Z
	1.2	—	0.1	570	200µs	120	475-2579-1-ND† ***NEW!***	1.84	1.54	1.23	SFH 2430-Z
	1.2	—	0.1	570	200µs	120	475-2579-2-ND‡ ***NEW!***	1380.00/1,500			SFH 2430-Z
	1.3	34	2	880	20	120	475-1344-ND ***NEW!***	.84	.68	.61	BP 104 FAS-Z
10	1.3	24	10	900	500	120	475-1349-ND ***NEW!***	10.88	8.71	7.89	BPX 48
11	1.3	—	2	850	20	110	475-1350-ND ***NEW!***	8.60	6.88	6.24	BPX 61
12	1.0	—	10	900	500	110	475-1431-ND ***NEW!***	10.60	8.48	7.69	SFH 221
13	1.3	34	2	900	20	120	475-1432-ND ***NEW!***	.62	.50	.45	SFH 225 FA
	1.3	50	2	900	20	130	475-1433-ND ***NEW!***	.64	.52	.47	SFH 235 FA

† Cut Tape ‡ Tape and Reel

Phototransistors

Fig.	Collector Emitter (V) Max.	Photo Cur. Emit. to Col. (mA) Typ.	Dark Cur. (nA)	Peak Wavelength (nm)	Rise/Fall Time (µs) Typ.	View Angle (°)	Digi-Key Part No.	Bulk Price Each 1	Bulk Price Each 10	Bulk Price Each 100	Osram Part No.
2	70	7.5	3	870	11	20	475-1080-ND	.36	.29	.27	SFH313FA
	35	—	1	880	10	50	475-1437-ND ***NEW!***	.40	.32	.29	SFH 300-3/4
	35	—	1	880	10	50	475-1438-ND ***NEW!***	.42	.34	.31	SFH 300 FA-3/4
4	35	—	1	900	7/8	24	475-1440-ND ***NEW!***	.42	.34	.31	SFH 309 FA-4/5
6	35	—	3	830	—	26	475-1453-ND ***NEW!***	.48	.39	.35	SFH 3500-Z
14	50	—	20	880	9/12	80	475-1347-ND ***NEW!***	1.30	1.04	.95	BPX 38-2/3
	50	—	20	880	12/15	30	475-1348-ND ***NEW!***	1.24	1.00	.90	BPX 43-3/4
	35	—	1	830	7/9	16	475-1351-ND ***NEW!***	1.42	1.14	1.03	BPY 62-3/4
	50	3	20	880	15/18	30	475-1074-ND	1.30	1.04	.95	BPX43-4/5
15	70	1.9	3	850	11	80	475-1081-ND	.36	.29	.27	SFH314
16	35	—	1	920	7/9	28	475-1445-ND ***NEW!***	.34	.28	.25	SFH 3100 F
17	30	—	3	850	10	70	475-1419-ND ***NEW!***	.42	.34	.31	LPT 80A
18	35	—	1	860	6	150	475-1441-ND ***NEW!***	.36	.29	.27	SFH 309 P
	35	—	1	900	6	150	475-1442-ND ***NEW!***	.36	.29	.27	SFH 309 PFA
19	70	—	5	780	7/8	50	475-1443-ND ***NEW!***	.42	.34	.31	SFH 310-2/3
	70	—	5	880	7/8	50	475-1444-ND ***NEW!***	.34	.28	.25	SFH 310 FA-2/3
20	35	—	1	980	7/8	120	475-1446-ND ***NEW!***	.34	.28	.25	SFH 320-3/4-Z
	35	—	1	860	—	120	475-2572-1-ND† ***NEW!***	.99	.83	.66	SFH 7225-Z
	35	—	1	860	—	120	475-2572-2-ND‡ ***NEW!***	990.00/2,000			SFH 7225-Z
	35	—	1	860	7	120	475-2570-1-ND† ***NEW!***	.99	.83	.66	SFH 7221-Z
	35	—	1	860	7	120	475-2570-2-ND‡ ***NEW!***	990.00/2,000			SFH 7221-Z
	—	—	—	565	500	120	475-2571-1-ND† ***NEW!***	.99	.83	.66	SFH 7222-Z
	—	—	—	565	500	120	475-2571-2-ND‡ ***NEW!***	990.00/2,000			SFH 7222-Z
21	15	—	2	920	7	120	475-1447-ND ***NEW!***	.66	.53	.48	SFH 3204-Z
22	35	—	1	990	7	50	475-1448-ND ***NEW!***	.48	.39	.35	SFH 3219-Z
23	35	—	1	980	7/8	120	475-1449-ND ***NEW!***	.42	.34	.31	SFH 325-3/4-Z
	35	—	1	980	7/8	120	475-1450-ND ***NEW!***	.42	.34	.31	SFH 325 FA-3/4-Z
24	70	—	3	850	24/34	120	475-1451-ND ***NEW!***	.66	.53	.48	SFH 3400-2/3-Z
	5.5	—	3	570	—	120	475-1452-ND ***NEW!***	.76	.61	.56	SFH 3410-2/3-Z
25	35	—	5	870	13/15	40	475-1439-ND ***NEW!***	.56	.45	.41	SFH 303 FA-3/4

† Cut Tape ‡ Tape and Reel

Dimensions in mm

Fig. 1

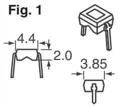

Fig. 2

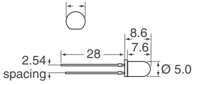

Fig. 3

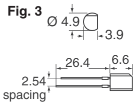

Fig. 4

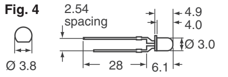

Fig. 5

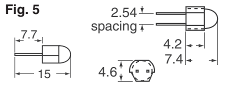

Fig. 6

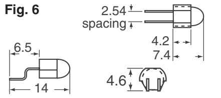

Fig. 7 ***NEW!***

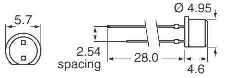

Fig. 8 ***NEW!***

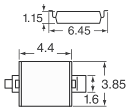

Fig. 9 ***NEW!***

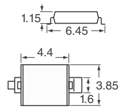

Fig. 10 ***NEW!***

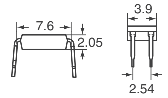

Fig. 11 ***NEW!***

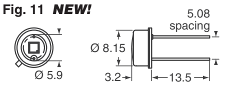

Fig. 12 ***NEW!***

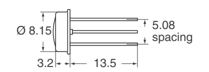

Fig. 13 ***NEW!***

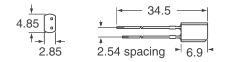

Fig. 14

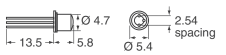

Fig. 15

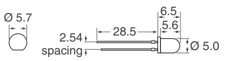

Fig. 16

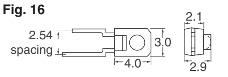

Fig. 17 ***NEW!***

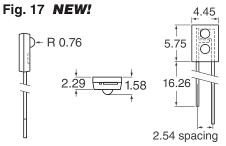

Fig. 18 ***NEW!***

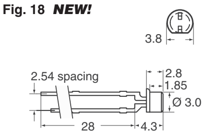

Fig. 19 ***NEW!***

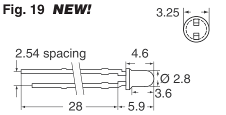

Fig. 20 ***NEW!***

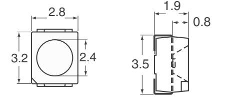

Fig. 21 ***NEW!***

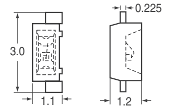

Fig. 22 ***NEW!***

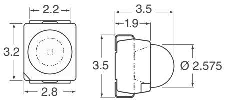

Fig. 23 ***NEW!***

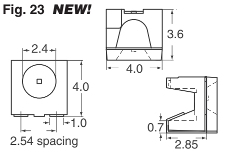

Fig. 24 ***NEW!***

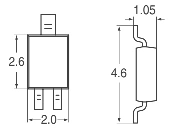

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OSRAM Opto Semiconductors

Optoelectronics *(Cont.)*

Infrared Emitters

Fig.	Forward Voltage (V)	Forward Current Max. (mA)	Optical Power Output (mW/sr)◊	Peak Wave-length (nm)	View Angle (°)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	Osram Part No.
2	1.5	100	60 typ.	950	36	475-1103-ND§◆	.48	.39	.35	—	—	SFH4502
	1.5	100	250 typ.	950	8	475-1104-ND§◆	.48	.39	.35	—	—	SFH4503
	1.5	100	180 typ.	850	6	475-1200-ND§◆	.60	.48	.44	—	—	SFH4550
	1.5	100	100 typ.	880	16	475-1111-ND§◆	.38	.31	.28	—	—	SFH484
	1.5	100	60 typ.	880	40	475-1112-ND§◆	.38	.31	.28	—	—	SFH485
	1.3	100	40 min.	950	34	475-1458-ND§◆ ***NEW!***	.34	.28	.25	—	—	SFH 415 U
	1.3	100	63 min.	950	8	475-1461-ND§◆ ***NEW!***	.46	.37	.34	—	—	SFH 4511
	1.5	100	80 min.	880	16	475-1468-ND§◆ ***NEW!***	.48	.39	.35	—	—	SFH 484-2
	1.5	100	25 min.	880	40	475-1469-ND§◆ ***NEW!***	.48	.39	.35	—	—	SFH 485-2
	1.5	100	40 min.	880	22	475-1471-ND§◆ ***NEW!***	.38	.31	.28	—	—	SFH 486
4	1.3	100	6.3 min.	950	40	475-1086-ND§◆	.44	.36	.32	—	—	SFH409
	1.5	100	40 min.	850	26	475-1460-ND§◆ ***NEW!***	.60	.48	.44	—	—	SFH 4350
5	1.5	100	85 typ.	950	20	475-1105-1-ND	.66	.55	.44	1,000	330.00	SFH4505
	1.5	100	25 min.	880	30	475-1109-1-ND	.60	.50	.40	1,000	300.00	SFH4585
6	1.5	100	85 typ.	950	20	475-1101-1-ND	.66	.55	.44	—	—	SFH4500
7	1.5	100	3.15 min.	880	80	475-1470-ND§◆ ***NEW!***	.54	.44	.40	—	—	SFH 485 P
14	4~18	50	—	950	10	475-1478-ND§◆ ***NEW!***	2.38	1.91	1.73	—	—	SFH 5840
16	1.2	60	2.5 min.	950	18	475-1087-ND§	.34	.28	.25	—	—	SFH4110
17	1.5	60	0.4 min.	950	60	475-1364-ND§◆ ***NEW!***	.40	.32	.29	—	—	IRL 80A
	1.5	100	1.0 min.	880	50	475-1365-ND§◆ ***NEW!***	.50	.40	.37	—	—	IRL 81A
20	1.5	100	10 min.	850	120	475-1459-ND§◆ ***NEW!***	.60	.48	.44	—	—	SFH 4250-Z
23	1.5	100	10 min.	850	120	475-2568-1-ND◆ ***NEW!***	.96	.80	.64	2,000	480.00/M	SFH 4255-Z
26	2.4	100	40 min.	850	30	475-1243-1-ND◆	1.17	.98	.78	2,000	585.00/M	SFH4258-Z
27	1.5	100	10 typ.	950	120	475-1240-1-ND◆	.65	.54	.43	2,000	323.00/M	SFH4205-Z
28	1.5	200	40 min.	880	12	475-1110-ND§◆	1.36	1.09	.99	—	—	SFH480
	1.3	300	20 min.	950	12	475-1454-ND§◆ ***NEW!***	1.42	1.14	1.03	—	—	SFH 400
29	1.5	100	48 typ.	950	65	475-1267-1-ND◆	.96	.80	.64	3,000	480.00/M	SFH 4203-Z
30	1.8	100	170 typ.	850	120	475-1233-1-ND◆	10.50	8.75	7.00	800	4200.00	SFH4230
	1.8	100	200 typ.	940	60	475-1272-1-ND◆	10.50	8.75	7.00	800	4200.00	SFH 4231
31	1.5	100	40 typ.	850	40	475-1260-1-ND◆	1.08	.90	.72	2,000	540.00/M	SFH 4655-Z
	1.5	100	16 min.	950	40	475-1462-1-ND◆ ***NEW!***	.87	.73	.58	2,000	435.00/M	SFH 4600-Z
	1.5	100	16 min.	950	40	475-2258-1-ND◆ ***NEW!***	.87	.73	.58	2,000	435.00/M	SFH 4605-Z
	1.5	100	10 min.	880	40	475-1463-1-ND◆ ***NEW!***	.87	.73	.58	2,000	369.75/M	SFH 4680-Z
	1.5	100	10 min.	880	40	475-1464-1-ND◆ ***NEW!***	.87	.73	.58	2,000	435.00/M	SFH 4685-Z
	1.5	100	16 min.	850	40	475-2569-1-ND◆ ***NEW!***	1.08	.90	.72	2,000	540.00/M	SFH 4650-Z
32	18	1000	630 min.	850	60	475-1270-ND§◆	100.00	80.00	72.50	—	—	SFH 4730
	18	1000	800 min.	850	60	475-1271-ND§◆	100.00	80.00	72.50	—	—	SFH 4740
33	1.5	100	4 min.	950	120	475-1343-1-ND◆ ***NEW!***	1.05	.88	.70	2,000	525.00/M	SFH 4200-Z
34	1.3	300	20 min.	950	30	475-1455-ND§◆ ***NEW!***	1.48	1.19	1.08	—	—	SFH 401
35	1.3	300	4 min.	950	80	475-1397-ND§◆ ***NEW!***	1.72	1.38	1.25	—	—	LD 242-2/3
36	1.3	100	1.0 min.	950	160	475-1456-ND§◆ ***NEW!***	.44	.36	.32	—	—	SFH 4010-Z
37	1.25	40	2.5 min.	950	32	475-1457-ND§◆ ***NEW!***	1.38	1.11	1.01	—	—	SFH 405
38	1.3	300	25 min.	950	10	475-1465-ND§◆ ***NEW!***	3.98	3.19	2.89	—	—	SFH 4811
	1.5	200	40 min.	880	10	475-1473-ND§◆ ***NEW!***	1.50	1.20	1.09	—	—	SFH 4881
39	1.3	300	2.5 min.	950	70	475-1466-ND§◆ ***NEW!***	3.98	3.19	2.89	—	—	SFH 4813
	1.5	200	4 min.	880	70	475-1474-ND§◆ ***NEW!***	1.50	1.20	1.09	—	—	SFH 4883
40	1.5	200	5 min.	880	60	475-1467-ND§◆ ***NEW!***	1.52	1.22	1.11	—	—	SFH 482-2/3
41	2	50	0.63 min.	660	100	475-1472-ND§◆ ***NEW!***	3.98	3.19	2.89	—	—	SFH 4860
42	5	1.3	—	940	—	475-1475-ND§◆ ***NEW!***	1.00	.80	.73	—	—	SFH 5110-38
43	4~18	50	—	950	24	475-1476-ND§◆ ***NEW!***	.62	.50	.45	—	—	SFH 5140 F
44	5	3	—	940	120	475-1477-ND§◆ ***NEW!***	1.18	.95	.86	—	—	SFH 5410-38-Z

§ Bulk ◊ At I_F = 100mA, t_p = 20ms ◆ ***RoHS Compliant***
‡ For Tape and Reel part number, change 1-ND to 2-ND.

Ambient Light Sensor

Fig.	Supply Voltage (V)	Current Consumption (µA)	Spectral Sensitivity (nm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Osram Part No.
45	6	420	475 ~ 650	475-1259-1-ND	1.95	1.63	1.30	475-1259-2-ND	2,000	975.00/M	SFH 5711-2/3-Z

Orientation Sensor

Fig.	Supply Voltage (V)	Current Consumption (µA)	Tilt Angle Low	Tilt Angle High	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Osram Part No.
46	3.6	50	70° ~ 200°	250° ~ 20°	475-1269-1-ND	2.25	1.88	1.50	475-1269-2-ND	800	900.00	SFH 7710

Dimensions in mm

Fig. 25 ***NEW!***

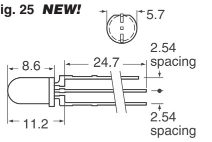

Fig. 26

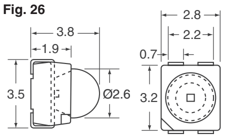

Fig. 27

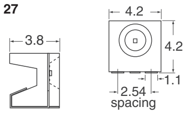

Fig. 28

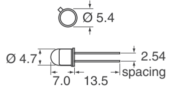

Fig. 29

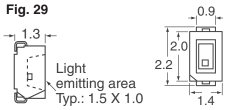

Fig. 30

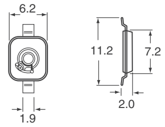

Fig. 31

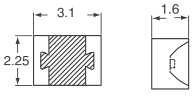

Fig. 32

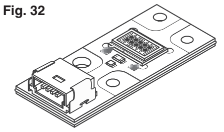

Fig. 33 ***NEW!***

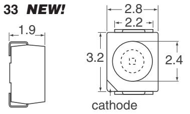

Fig. 34 ***NEW!***

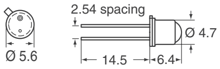

Fig. 35 ***NEW!***

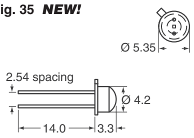

Fig. 36 ***NEW!***

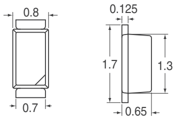

Fig. 37 ***NEW!***

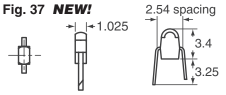

Fig. 38 ***NEW!***

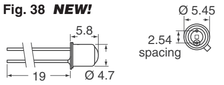

Fig. 39 ***NEW!***

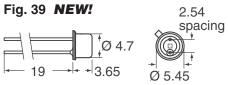

Fig. 40 ***NEW!***

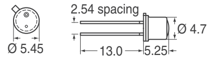

Fig. 41 ***NEW!***

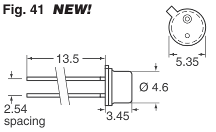

Fig. 42 ***NEW!***

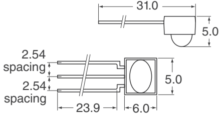

Fig. 43 ***NEW!***

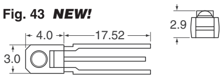

Fig. 44 ***NEW!***

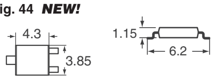

Fig. 45

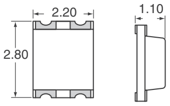

Fig. 46

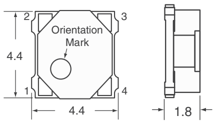

Panasonic

Panasonic Electric Works

Light Sensor — NaPiCa

FEATURES: • Built-in optical filter for spectral response similar to that of the human eye • Photocurrent is proportional to illumination (linear output) • Uses environmentally friendly silicon chips • Operates on 1.5 ~ 6VDC, which is suitable for battery operation. **APPLICATIONS:** • Brightness detection for LCD backlight control for LCD devices (mobile phones, LCD TVs, Car navigation systems, mobile PCs and PDAs) • Brightness detection for circuits in household lighting, crime prevention lighting and automatic lighting for bicycles **RATINGS: • Photocurrent:** 5mA • **Operating Temperature:** -30°C ~ 85°C • **Reverse Voltage:** Minimum 1.5V, Maximum 6V • **Dark Current:** .3µA @ 5V

Dim. in mm

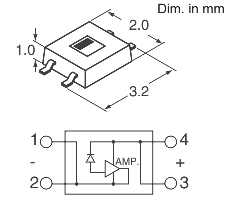

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape and Reel Pricing 3,000	Panasonic Part No.
Cadmium Free Light Sensor with Spectral Response, 4SOP SMT	255-1848-1-ND	2.23	2.05	1.82	255-1848-2-ND	1274.00/M	AMS104Y

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

OMRON® Amplified Optical Sensors

Omron's optical sensors are designed to meet the needs of positioning, detection, robotic controls and presence detection. Amplified sensors are not influenced by internal or external lighting and can be powered by a wide supply voltage. Great for plug and play applications such as conveyor sensing and directly interfacing with PLC and Industrial controllers.

Fig. 1
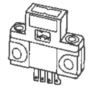

Fig. 2
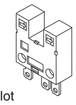
Wide Slot

Fig. 3
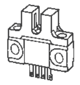

Fig. 4
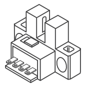
L-Shape

Fig. 5
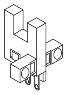
T-Shape

Fig. 6
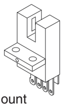
Close Mount

Fig. 7
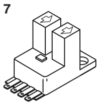

Fig. 8
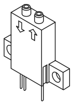
Long Distance

Fig. 9
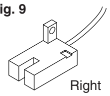
Right Mount Shown

Fig. 10
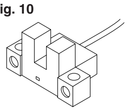

Fig. 11
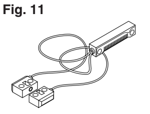

Fig. 12
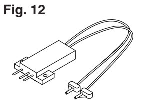

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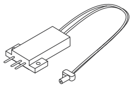

Fig. 14
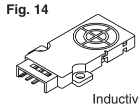
Inductive Type

Fig. 15
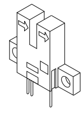

Fig. 16
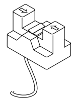
Liquid Level

Fig. 17
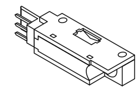

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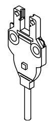

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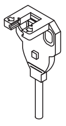

Fig. 20
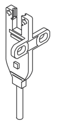

Fig.	Sensor Type/Features	Sensing Distance	Configuration	Digi-Key Part No.	Price Each 1	Price Each 25	Omron Part No.
1	Reflective (General Purpose)	5mm	Light-On	OR506-ND	16.34	14.71	EE-SB5V
	Reflective (General Purpose)	5mm	Dark-On	OR507-ND	16.34	14.71	EE-SB5VC
	Reflective (General Purpose)	5mm	Light-On	OR867-ND◆	18.70	16.83	EE-SB5M
	Reflective (General Purpose)	19mm	Light-On	OR519-ND	22.83	20.55	EE-SB5V-E
	Reflective (Side Detecting)	5mm	Light-On	OR535-ND	44.21	39.80	EE-SPY311
	Reflective (Side Detecting)	5mm	Light-On	OR536-ND	44.21	39.80	EE-SPY411
	Reflective (Top Detecting)	5mm	Dark-On	OR572-ND	44.21	39.80	EE-SPY312
	Reflective (Top Detecting)	5mm	Light-On	OR868-ND◆	50.60	45.54	EE-SPY402
	Reflective (Top Detecting)	5mm	Light-On	OR573-ND	44.21	39.80	EE-SPY412
	Reflective (Side Detecting)	5mm	Light/Dark-On	OR531-ND†	26.45	23.81	EE-SY671
	Reflective (Top Detecting)	5mm	Light/Dark-On	OR532-ND†	26.46	23.82	EE-SY672
2	Wide Slot (13mm Slot)	13mm	Dark-On	OR533-ND	47.25	42.53	EE-SPX303
	Wide Slot (13mm Slot)	13mm	Light-On	OR534-ND	47.25	42.53	EE-SPX403
3	Slot (Dust Proof Slit)	5mm	Light/Dark-On	OR528-ND	22.01	19.81	EE-SX670
	Slot – NPN	5mm	Light/Dark-On	OR611-ND	22.01	19.81	EE-SX670A
	Slot – PNP	5mm	Light/Dark-On	OR870-ND◆	25.18	22.66	EE-SX670P
4	Slot (L-Shaped) – NPN	5mm	Light-On	OR869-ND◆	26.43	23.79	EE-SX471
	Slot (L-Shaped, Dust Proof Slit)	5mm	Light/Dark-On	OR529-ND	22.41	20.17	EE-SX671
	Slot (L-Shaped, Dust Proof Slit)	5mm	Light/Dark-On	OR612-ND	22.41	20.17	EE-SX671A
5	Slot (T-Shaped, Dust Proof Slit)	5mm	Light/Dark-On	OR530-ND◆	22.68	20.42	EE-SX672
	Slot (T-Shaped, Dust Proof Slit)	5mm	Light/Dark-On	OR613-ND◆	22.68	20.42	EE-SX672A
	Slot (T-Shaped) – PNP	5mm	Light/Dark-On	OR871-ND◆	25.95	23.36	EE-SX672P
6	Slot (Close Mounting) – NPN	5mm	Light/Dark-On	OR549-ND	23.49	21.15	EE-SX673
	Slot (Close Mounting) – NPN	5mm	Light/Dark-On	OR614-ND	23.49	21.15	EE-SX673A
7	Slot (Close Mount) – NPN	5mm	Light/Dark-On	OR597-ND◆	24.17	21.75	EE-SX674
	Slot (Close Mount) – NPN	5mm	Light/Dark-On	OR872-ND◆	29.65	26.69	EE-SX674A
	Slot (Close Mount) – PNP	5mm	Light/Dark-On	OR873-ND◆	29.65	26.69	EE-SX674R
8	Reflective (Long Distance)	200mm	Dark-On	OR538-ND	59.40	53.46	EE-SPZ301A
	Reflective (Long Distance)	200mm	Light-On	OR539-ND	59.40	53.46	EE-SPZ401A
9	Slot (Left Mount with 1M Cable)	3.6mm	Dark-On	OR541-ND	67.50	60.75	EE-SPX302-W2A
	Slot (Right Mount with 1M Cable)	3.6mm	Dark-On	OR542-ND	72.90	65.61	EE-SPX304-W2A
10	Slot (Top Mount with 1M Cable)	5mm	Dark-On	OR543-ND	75.60	68.04	EE-SPX305-W2A
	Slot (Top Mount with 1M Cable	5mm	Light-On	Z2357-ND◆	48.99	45.36	EE-SPX405-W2A
11	Slot (Wide Sensing Distance)	300mm	Dark-On	OR546-ND	175.50	157.95	EE-SPW321
	Slot (Wide Sensing Distance)	300mm	Light-On	OR547-ND	175.50	157.95	EE-SPW421
12	Fiber (19" Optical Fiber)	30mm	Dark-On	OR552-ND	81.34	73.21	EE-SPZ301W-01
	Fiber (19" Optical Fiber)	30mm	Light-On	OR553-ND	81.34	73.21	EE-SPZ401W-01
13	Reflective (11" Optical Fiber)	1-3mm	Dark-On	OR554-ND	85.05	76.55	EE-SPZ301Y-01
	Reflective (11" Optical Fiber)	1-3mm	Light-On	OR555-ND	85.05	76.55	EE-SPZ401Y-01
14	Inductive (Detects Ferrous Metal)	5mm	N/O Output	OR560-ND	29.36	26.43	E2R-A01
15	Slot (General Purpose)	3.6mm	Dark-On	OR574-ND	45.56	41.01	EE-SPX301
	Slot (General Purpose)	3.6mm	Light-On	OR575-ND	45.56	41.01	EE-SPX401
16	Slotted Liquid Level Detector	6-13mm	Dark/Light-On	OR579-ND	129.86	116.88	EE-SPX613
17	Reflective (General Purpose)	11mm	Dark-On	OR580-ND◆	15.83	14.25	EE-SPY415
18	Slot Type with 2M Cable – NPN	5mm	Dark-On	OR605-ND◆	29.36	26.43	EE-SX770
	Slot Type with 2M Cable – PNP	5mm	Dark-On	OR874-ND	33.60	30.24	EE-SX770P
	Slot Type with 2M Cable – NPN	5mm	Light-On	OR606-ND	29.36	26.43	EE-SX870
19	L-Shaped with 2M Cable – NPN	5mm	Dark-On	OR607-ND	31.05	27.95	EE-SX771
	L-Shaped with 2M Cable – NPN	5mm	Light-On	OR608-ND	31.05	27.95	EE-SX871
20	T-Shaped with 2M Cable – NPN	5mm	Dark-On	OR609-ND	32.40	29.16	EE-SX772
	T-Shaped with 2M Cable – NPN	5mm	Light-On	OR610-ND	32.40	29.16	EE-SX872

◆ ***RoHS Compliant*** † Built-in sensitivity adjuster

Description	Digi-Key Part No.	Price Each 1	Price Each 25	Omron Part No.
Optical Sensor Accessories				
IR Reflector for Fig. 8, 60 x 40mm	OR540-ND◆	16.10	14.49	E39-R1
3 Pin Connector with 1 Meter Cable for Fig. 15	OR561-ND	7.85	7.07	E22-01
Converter from NPN to PNP Output for Amp Sensors	OR550-ND◆	29.03	26.13	EE-2001
Converter from NPN to PNP Output for AMP Sensors	OR551-ND◆	29.03	26.13	EE-2002
4 Pin Connector for Fig. 1-6	OR527-ND◆	2.97	2.68	EE-1001
4 Pin Connector with 2 Meter Cable for Fig. 1-6	OR559-ND◆	13.91	12.52	EE-1006
Panel Mount Holder Clip for OR559-ND	OR576-ND	4.19	3.77	EE-1006A
3 Pin Connector for Fig. 8, 12, 13 and 16	OR537-ND◆	4.70	4.23	EE-1002
3 Pin Connector with 2 Meter Cable for Fig. 4, 12 and 13	OR558-ND◆	5.27	4.74	EE-1003
Panel Mount Holder Clip for OR558-ND	OR583-ND	1.62	1.46	EE-1003A

◆ ***RoHS Compliant***

Unamplified Optical Sensors

Omron's unamplified optical sensors are low cost detection sensors for design in processes. Inputs generally require a current limiting resistor and care must be taken with reducing external lighting influences. Outputs switch at very high speeds and operating lifetimes extend beyond 10,000 operating hours.

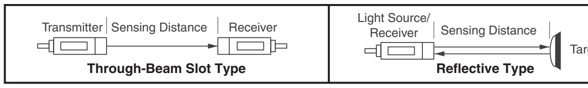

Through-Beam Slot Type **Reflective Type**

Fig. 1
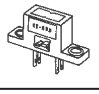

Fig. 2
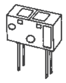

Fig. 3
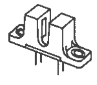

Fig. 4
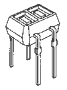

Fig. 5
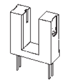

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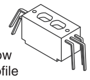
Low Profile

Fig. 7
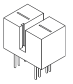
Dual Channel

Fig. 8
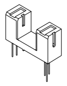

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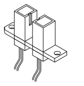

Fig. 10
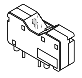

Fig. 11
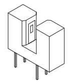

Fig. 12
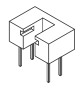

Fig. 13
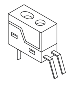

Fig. 14
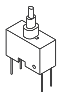

Fig.	Sensing Method	Sensing Distance	Terminal Type	Typical t_{on}/t_{off} (µsec.)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Omron Part No.
1	Reflective	5mm	Solder	30/30	OR500-ND	4.78	4.30	3.44	EE-SB5
	Reflective	5mm	PC Board	30/30	OR501-ND	4.78	4.30	3.44	EE-SB5-B
2	Reflective	5mm	Solder	30/30	OR502-ND	4.70	4.23	3.39	EE-SF5
	Reflective	5mm	PC Board	30/30	OR503-ND	4.70	4.23	3.39	EE-SF5-B
3	Slot	3.6mm	Solder	4/4	OR504-ND	3.58	3.22	2.58	EE-SG3
	Slot	3.4mm	Solder	4/4	OR713-ND	3.97	3.58	2.86	EE-SH3
	Slot	3.4mm	Solder	4/4	OR714-ND	4.92	4.44	3.55	EE-SV3
	Slot	3.4mm	PC Board	4/4	OR715-ND	5.08	4.58	3.67	EE-SX305
	Slot	3.6mm	PC Board	4/4	OR505-ND	3.58	3.22	2.58	EE-SG3-B
4	Reflective	1mm	PC Board	35/25	OR520-ND	1.90	1.71	1.37	EE-SY124
	Reflective	1mm	SMT	35/25	OR557-ND	1.90	1.71	1.37	EE-SY125
5	Slot	5mm	PC Board	4/4	OR518-ND	1.68	1.51	1.21	EE-SX1042
	Slot	4.6mm	PC Board	500Hz	OR556-ND	1.95	1.76	1.41	EE-SX1061
	Slot	3mm	PC Board	70/70	OR601-ND	1.95	1.76	1.41	EE-SX298
6	Reflective	5mm	PC Board	50Hz	OR525-ND	3.45	3.11	2.49	EE-SY310
	Reflective	5mm	PC Board	50Hz	OR526-ND	3.45	3.11	2.49	EE-SY410
	Reflective	4.4mm	PC Board	3/20	OR603-ND	3.68	3.31	2.65	EE-SY313
	Reflective	4.4mm	PC Board	3/20	OR604-ND	3.68	3.31	2.65	EE-SY413
7	Slot	3.4mm	PC Board	4/4	OR523-ND	4.08	3.67	2.94	EE-SX1031
8	Slot	8mm	PC Board	3KHz	OR716-ND	2.45	2.21	1.77	EE-SX3070
	Slot	8mm	PC Board	3KHz	OR524-ND	1.93	1.74	1.39	EE-SX4070
	Slot	8mm	PC Board	3KHz	OR571-ND	1.68	1.51	1.21	EE-SX1070
9	Vertical Slot	3.4mm	61cm Wires	4/4	OR562-ND	7.08	6.37	5.10	EE-SX1088-W1
	Horizontal Slot	3.4mm	61cm Wires	4/4	OR563-ND	6.68	6.01	4.81	EE-SX1096-W1
10	Reflect./Vert.	4.5mm	PC Board	30/30	OR564-ND	10.50	9.45	7.56	EE-SY190
	Reflect./Horz.	4.5mm	PC Board	30/30	OR565-ND	10.50	9.45	7.56	EE-SY191
11	Slot	3.4mm	PC Board	4/4	OR569-ND	3.18	2.86	2.29	EE-SJ3-D
	Slot	2.8mm	PC Board	4/4	OR598-ND	2.03	1.83	1.46	EE-SX1025
	Slot	5.2mm	PC Board	4/4	OR599-ND	2.13	1.92	1.53	EE-SX1035
12	Slot	3mm	PC Board	4/4	OR570-ND	2.90	2.61	2.09	EE-SX1046
	Slot	2mm	PC Board	3/20	OR600-ND	2.93	2.64	2.11	EE-SX493
13	Red LED Reflect	4 mm	PC Board	30/30	OR581-ND	10.53	9.48	7.58	EE-SY169
	IR Reflective	4 mm	PC Board	30/30	OR582-ND	9.40	8.46	6.77	EE-SY169A
14	Actuator	Contact	PC Board	—	OR712-ND	3.09	2.78	2.23	EE-SA105

D6A Air Flow Sensor

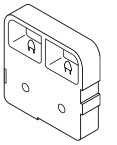

The industry first D6A filter sensor contains a microprocessor with a complex algorithms that provides a temperature reference point to see if a filter fan is moving the right amount of air. If the sensor indicates it is not, then the user knows the filter is clogged. With its sensing capabilities, the D6A provides reliability protection, ensuring the dependability of continued operation of expensive equipment. This clogged filter sensor is excellent for servers, high end routers and network devices. Other applications include uninterruptible power supplies, cash registers and other types of machines that use a filter fan.

Specifications: • Supply Voltage: DC12V • Current Consumption: 60mA (Maximum)

Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
Air Flow Sensor - .5 ~ 1.5M/1 Second	Z2002-ND	57.90	45.90	44.11	D6A-N

N

OMRON

D6F Gas Flow Sensors

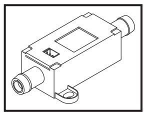

The D6F is a new supersensitive gas flow sensor. It is able to measure both gas velocity and direction at extremely low flow rates, and is ideal for looking at low pressure medical gases, boiler emissions, and HVAC system airflow. It is suitable for measuring the amount of oxygen and nitrogen dioxide, consumed from a respiratory apparatus in surgery. It can also be used for monitoring air circulation in a building and thus improving the performance and efficiency of air conditioning and building comfort systems. The extreme sensitivity is achieved with a tiny heating element, associated with temperature sensors on both sides. The deviation is temperature measured by the two sensors and used to calculate the gas flow and direction, generating a non-linear analogue output in the range of 1V ~ 5V.

Case Material	Suitable Gas	Flow Range	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
PPS	Air	0~1Liter/minute	Z1671-ND	168.33	151.50	134.66	D6F-01A1-110
PPS	Air	0~2Liter/minute	Z1672-ND	168.33	151.50	134.66	D6F-02A1-110
Aluminum	LNG*	0~5Liter/minute	Z1673-ND†	201.68	165.49	159.69	D6F-05N2-000
PPS	Air	0~3Liter/minute	Z2717-ND	257.55	231.80	206.04	D6F-03A3-0000
Connector with 2M Cable for D6F Sensors.....			Z2718-ND	8.60	7.74	6.88	D6F-CABLE2

* Liquid Natural Gas   † D6F-05 is a 1/4” pipe thread version using British Taper (Rc) standard.

D6F Air Flow Sensors

Omron’s mass flow sensor will detect flows of 1 ~ 10 liters per minute up to a 1 ~ 50 liter per minute version. They use a wide supply voltage range of 5 ~ 26.4VDC and will output an analog voltage of 0.5 ~ 5VDC. Perfect for medical apparatus, fuel cell monitoring and measuring instruments.

D6F

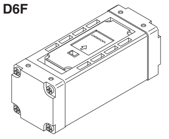

D6F-W

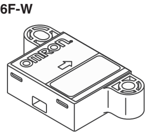

D6F-P

Shown with PCB Terminals

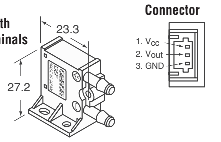

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Flow Sensor 0 ~ 10 Liters per minute	Z2206-ND	291.50	262.35	233.20	D6F-10A5-000
Flow Sensor 0 ~ 20 Liters per minute	Z2207-ND	291.50	262.35	233.20	D6F-20A5-000
Flow Sensor 0 ~ 50 Liters per minute	Z2208-ND	291.50	262.35	233.20	D6F-50A5-000
Dustproof Flow Sensor 0~1 Liter, PCB	Z2785-ND	61.18	55.06	48.94	D6F-P0010A1
Dustproof Flow Sensor 0~1 Liter, Connector	Z2786-ND	61.18	55.06	48.94	D6F-P0010A2
Flow Sensor 0 ~ 1 Meters per second	Z2631-ND	99.38	89.44	79.50	D6F-W01A1
Flow Sensor 0 ~ 4 Meters per second	Z2632-ND	99.38	89.44	79.50	D6F-W04A1
Flow Sensor 0 ~ 3 Meters per second	Z2629-ND	66.25	59.63	53.00	D6F-V03A1
Cable for Air Flow Sensors	Z2209-ND	8.63	7.77	6.90	D6F-CABLE1
Cable for Air Flow Sensors (D6F-W)	Z2630-ND	4.98	4.48	3.98	D6F-W CABLE

D8M Pressure Sensors

Fig. 1

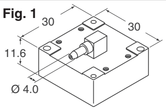

Fig. 2

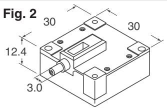

D8M pressure sensors are precise detecting change of air pressure sensors with outputs of either Analog or Digital signals. Perfect for water level monitoring, liquid level monitoring and HVAC changes in the air flow.**Features:**• High Noise Immunity • Pressure Range: *D8M-D1*= 0 ~ 5.88kPa, *D8M-A1*= 0 ~ 4.9Pa • Current Consumption: *D8M-D1*= 150mA at output 3VDC, *D8M-A1*= 2.5mA • Temperature Range: -30° ~ 70°C • Protection Structure: IP40 **Characteristics:** • Output Resolution: 0.01kPa/1 pulse • Output Frequency Range: 150 ~ 450kHz

Fig.	Pressure Type	Range	Output	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Gauge	0 ~ 4.9kPa	Analog	Z2013-ND	55.47	43.97	42.26	D8M-A1
2	Gauge	0 ~ 5.88kPa	Digital	Z2014-ND	83.15	63.35	60.33	D8M-D1
—	Gauge	0 ~ 196.13Pa	Frequency	Z2017-ND	112.85	91.84	87.47	D8M-R1

D7A/D7E Vibration Sensors

Fig. 1 — D7A

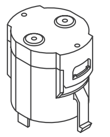

Vertical Shown

Fig. 2 — D7E

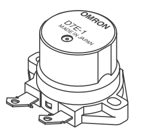

These vibration sensors are perfect for quick detection of movements that could cause damage to equipment or can be used to safely shut down critical operations. Sensors are auto-resettable and require no manual resetting. D7A is a horizontal keeping vibration sensor that is PC mounted. D7E vibration sensors are low cost sealed vibration sensors with various sensitivities. Use these sensors for industrial equipment, cranes, forklifts, industrial manufacturing and boilers. Use in natural gas meter shutoffs, vending machines, conveyor systems, earthquake sensors or any circuits that require safety shutoff during a period of vibration or tilting.

Specifications: • Various sensitivities • Contact Capacity: (D7A) 5μA - 1mA@3VDC; (D7E) 100mA@5-30VDC • Contact Form: (D7A) SPST-NO; (D7E) SPST-NC • Operating Temperature: (D7A) -30°C ~ 70°C, (D7E) -25°C ~ 60°C • Dielectric Strength: AC250V 50/60Hz

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	90 ~ 170 gal. Vertical Switch, 1mA	Z2004-ND	25.29	20.95	20.05	D7A-1
	90 ~ 170 gal. Horizontal Switch, 1mA	Z2005-ND	25.29	20.95	20.05	D7A-2
	90 ~ 170 gal. Chassis Mount Switch, 1mA	Z2006-ND	26.86	22.25	21.29	D7A-3
2	130 ~ 200 gal. Vibration Switch, 0.1A	Z2007-ND	9.01	6.90	6.52	D7E-1
	100 ~ 170 gal. Vibration Switch, 0.1A	Z2008-ND	6.72	3.88	3.66	D7E-2
	50 ~ 80° Tilt Switch, 0.1A	Z2009-ND	11.06	7.58	7.16	D7E-3

D7H Equipment Vibration Sensors

Fig. 1

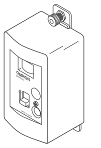

Fig. 2

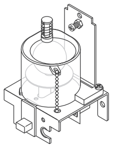

These vibration switches feature a highly durable stainless steel diaphragm that allows detection of very small movements. Used to prevent secondary damage after earthquakes and to replace mercury with a simple mechanical system. Manually resettable, vertically mounted sensor in either an enclosed case or open sensor.

Specifications: • 100 ~ 170 gallon, 10A 125VAC, 0.1A 30VDC • Operating Temperature: -10°C ~ 70°C

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Enclosed Vibration Detection Switch - 10A	Z2010-ND	166.21	135.26	128.82	D7H-A1
2	Open Cased Vibration Detection Switch - 10A	Z2011-ND	54.47	43.18	41.50	D7H-B1
	Open Cased Vibration Detection Switch - 0.1A	Z2012-ND	54.47	43.18	41.50	D7H-B2

D6B Tilt Switch

Micro Tilt Switch

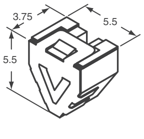

Mini Tilt Sensor

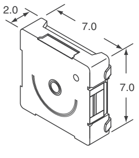

Ideal for equipment tilt detection. Will give you a separate output when tilted left or right. Perfect for signaling a screen to rotate from portrait to landscape view in keeping with product orientation. Can be used in space heaters.

Specifications: • Output Current: 1mA • Oper. Temperature: -10°C ~ 60°C **Characteristics:** • Supply Voltage: *D6B*= 2.7V ~ 3.3V; *D6BN*= 2.4V ~ 3.6V • Output High Voltage: *D6B*= Vdd – 0.5V min.; *D6BN*= Vdd – 0.4V min. • Output Low Voltage: *D6B*= 0.5V max.; *D6BN*= 0.4V max. • Current Consumption: *D6B*= 20μA max.; *D6BN*= 10μA max. • Oper. Angle: *D6B*= 45° ~ 75°; *D6BN*= 40° ~ 80°

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Micro SMD Tilt Switch - Left/Right	Z2003-ND	14.25	12.83	11.40	D6B-1
Micro SMD Tilt Switch - Left/Right	Z2506CT-ND◆†	6.46	5.78	5.13	D6B-2P
Mini SMD Tilt Sensor - Left/Right	Z2676CT-ND◆†	4.38	3.94	3.50	D6BN-IP
	Z2676TR-ND◆‡	5470.00/2,500			D6BN-IP

◆ ***RoHS Compliant***   † Cut Tape   ‡ Tape and Reel

Inductive Proximity Sensors

Omron’s line of inductive sensors are designed for detecting the presence or absence of ferrous metal close to the sensor and provide an output when detected. Because inductive sensors use electromagnetic fields, they excel over photo type sensors in environments containing water, oil, dust and dirt. Shielded sensors are made with a shielding plate around the ferrite core to focus ferrous metal sensing at the sensors head. It also allows the sensor to be located or mounted close to surrounding metals.

Fig. 1

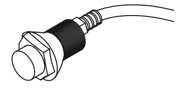

Fig. 2

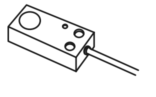

Fig.	Sensing Distance Maximum	Description	Terminal Type	Output Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	0.8mm	4mm Diameter, Short Barrel DC Proxy, Stainless Steel, Shielded	3-Wire	NPN	Z1651-ND	78.02	72.24	67.43	E2E-CR8C1
	1mm	M5, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1652-ND	78.02	72.24	67.43	E2E-X1C1
	1mm	5.4mm Diameter, Short Barrel DC Proxy, Nickel Plated Brass, Shieldead	3-Wire	NPN	Z1653-ND	78.02	72.24	67.43	E2E-C1C1
	1.5mm	M8, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1062-ND	57.15	52.92	49.40	E2E-X1R5E1
	1.5mm	M8, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1063-ND	75.82	70.20	65.52	E2E-X1R5Y1
	2mm	M8, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1064-ND	65.71	60.84	56.79	E2E-X2D1-N
	2mm	M12, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1065-ND	63.68	58.97	55.04	E2E-X2E1
	2mm	M12, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1066-ND	75.82	70.20	65.52	E2E-X2Y1-US
	3mm	M12, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1067-ND	66.71	61.77	57.66	E2E-X3D1-N
	5mm	M18, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1068-ND	66.71	61.77	57.66	E2E-X5E1
	5mm	M18, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1069-ND	80.87	74.88	69.89	E2E-X5Y1-US
	7mm	M18, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1070-ND	68.74	63.65	59.41	E2E-X7D1-N
	10mm	M30, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1654-ND	69.76	64.59	60.29	E2E-X10E1
	10mm	M30, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1655-ND	77.11	71.40	66.64	E2E-X10Y1-US
	1.5mm	M8, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1075-ND	55.34	51.24	47.83	E2F-X1R5E1
	1.5mm	M8, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1076-ND	69.85	64.68	60.37	E2F-X1R5Y1
	2mm	M12, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1078-ND	53.52	49.56	46.26	E2F-X2E1
	2mm	M12, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1079-ND	69.85	64.68	60.37	E2F-X2Y1
	5mm	M18, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1080-ND	54.43	50.40	47.04	E2F-X5E1
	5mm	M18, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1081-ND	71.67	66.36	61.94	E2F-X5Y1-US
	10mm	M30, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1077-ND◆	65.36	60.53	56.49	E2F-X10E1
2	1.5mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	PNP	Z1082-ND	48.54	44.94	41.95	TL-W1R5MB1
	1.5mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	NPN	Z1083-ND	48.54	44.94	41.95	TL-W1R5MC1
	3mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	NPN	Z1084-ND	51.48	47.67	44.50	TL-W3MC1
	3mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	PNP	Z1189-ND	51.48	47.67	44.50	TL-W3MB1
	5mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	PNP	Z1085-ND	44.00	40.74	38.03	TL-W5MB1
	5mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	NPN	Z1086-ND	44.00	40.74	38.03	TL-W5MC1
	20mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	NPN	Z1660-ND	72.12	66.78	62.33	TL-W20ME1
Mounting Bracket, Fits M8 Size Sensors........					Z1656-ND◆	2.74	2.54	2.37	Y92E-B8
Mounting Bracket, Fits M12 Size Sensors........					Z1657-ND◆	2.74	2.54	2.37	Y92E-B12
Mounting Bracket, Fits M18 Size Sensors........					Z1658-ND◆	2.74	2.54	2.37	Y92E-B18

◆ ***RoHS Compliant***

Honeywell
Sensing and Control

Optical Sensors

Fig. 1
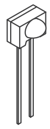

Fig. 2
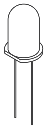

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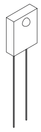

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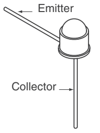

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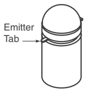

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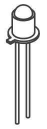

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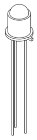

Fig. 8 ***NEW!***
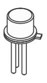

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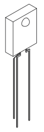

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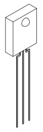

Fig. 11
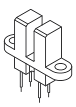

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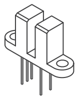

Fig. 13 ***NEW!***
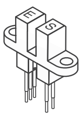

Fig. 14
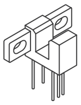

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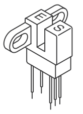

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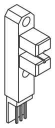

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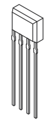

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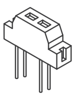

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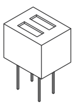

Fig. 20
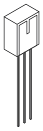

Fig. 21
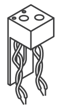

Note: 480-2971-ND has straight leads

Fig. 22
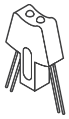

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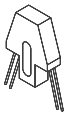

Fig. 24
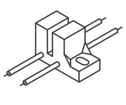

Fig. 25 ***NEW!***
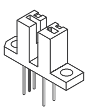

Fig. 26
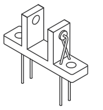

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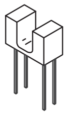

Fig. 28 ***NEW!***
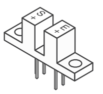

Fig. 29 ***NEW!***
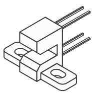

Fig. 30
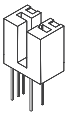

Fig. 31 ***NEW!***
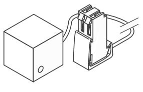

Infrared Light Emitting Diodes

Fig.	Style/ Pkg.	VCEO (V)	IC (mA)	Peak Sensitivity Wavelength	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
AlGaAs									
1	Side-view	1.7	50	880nm	480-1968-ND◆	1.76	.88	.83	SEP8736-002
		1.7	50	880nm	480-1969-ND◆	1.89	.94	.89	SEP8736-003
2	T-1	1.7	50	880nm	480-1965-ND◆	1.89	.94	.89	SEP8705-003
		1.7	20	880nm	480-2985-ND◆ ***NEW!***	2.15	1.10	1.01	SEP8705-002
3	Side-view	1.7	50	880nm	480-1966-ND◆	1.55	.74	.69	SEP8706-002
		1.7	50	880nm	480-1967-ND◆	1.64	.78	.73	SEP8706-003
4	Coaxial	1.8	50	880nm	480-1977-ND◆	5.24	3.13	2.93	SE1470-003L
		1.8	50	880nm	480-1978-ND◆	5.37	3.20	3.00	SE1470-004L
5	Mini-pill	1.8	75	880nm	480-1980-ND◆	3.33	1.81	1.70	SE2470-002
6	TO-46	1.9	100	880nm	480-1981-ND◆	4.77	2.73	2.56	SE3470-003
		1.9	100	880nm	480-1983-ND◆	4.54	2.60	2.43	SE5470-003
		1.9	100	880nm	480-1984-ND	4.62	2.65	2.48	SE5470-004
GaAs									
2	T-1	1.5	50	935nm	480-1961-ND◆	1.76	.86	.80	SEP8505-002
3	Side-view	1.5	50	935nm	480-1962-ND◆	1.34	.62	.59	SEP8506-001
		1.5	50	935nm	480-1963-ND◆	1.47	.71	.65	SEP8506-002
		1.5	50	935nm	480-1964-ND◆	1.55	.74	.69	SEP8506-003
4	Coaxial	1.6	50	935nm	480-1976-ND◆	5.04	2.93	2.75	SE1450-003L
		1.6	50	935nm	480-2980-ND◆ ***NEW!***	5.59	3.34	3.12	SE1450-004L
5	Mini-pill	1.6	75	935nm	480-1979-ND◆	3.02	1.61	1.52	SE2460-003
6	TO-46	1.7	100	935nm	480-1982-ND	4.19	2.36	2.17	SE5455-003
		1.7	100	935nm	480-2981-ND◆ ***NEW!***	4.80	2.80	2.63	SE3455-003
		1.7	100	935nm	480-2982-ND◆ ***NEW!***	4.80	2.80	2.63	SE5450-013
		1.7	100	935nm	480-2983-ND◆ ***NEW!***	4.80	2.80	2.63	SE5455-002
		1.7	100	935nm	480-2984-ND◆ ***NEW!***	4.81	2.76	2.58	SE5455-004

◆ ***RoHS Compliant***

NPN Silicon Phototransistors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (µs)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
Silicon									
1	Transistor	30	10.0	15	480-1957-ND	1.64	.78	.73	SDP8436-002
		30	17.5	15	480-1958-ND	1.64	.78	.73	SDP8436-003
2	Transistor	30	14	15	480-1951-ND	1.65	.81	.75	SDP8405-002
		30	24	15	480-1952-ND	1.76	.86	.80	SDP8405-003
		30	0.92	15	480-1953-ND	1.81	.90	.85	SDP8405-013
		30	1.85	15	480-1954-ND	1.65	.81	.75	SDP8405-014
3	Transistor	30	3.60	15	480-1955-ND	1.34	.62	.59	SDP8406-002
		30	6.50	15	480-1956-ND	1.34	.62	.59	SDP8406-003
4	Transistor	30	3.0	15	480-1970-ND	4.62	2.65	2.48	SD1440-003L
5	Transistor	30	4.0	15	480-1971-ND	2.88	1.54	1.44	SD2440-003
		30	7.0	15	480-1972-ND	2.96	1.58	1.48	SD2440-004
7	Transistor	15	8.0 min.	75	480-2976-ND ***NEW!***	5.10	2.97	2.79	SD5410-003
		30	4.0 min.	15	480-2977-ND ***NEW!***	4.51	2.58	2.42	SD5443-002
		30	8.0 min.	15	480-2978-ND ***NEW!***	4.51	2.58	2.42	SD5443-003
		30	16.0 min.	15	480-2979-ND ***NEW!***	4.13	2.36	2.22	SD5443-004
		30	8.0	2	480-1973-ND	4.40	2.52	2.36	SD5491-004
8	Transistor	30	2.0 min.	15	480-2975-ND ***NEW!***	4.59	2.63	2.46	SD3443-003
Low Light Rejection									
3	Transistor	30	6.0	15	480-1959-ND	1.47	.71	.65	SDP8476-201

Optoschmitt Detectors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (ns)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
7	TTL	16	18	60/15	480-1974-ND	5.00	2.91	2.73	SD5600-001
		16	18	60/15	480-1975-ND	4.93	2.87	2.69	SD5620-001
9	TTL	12	18	60/15	480-1960-ND	2.56	1.36	1.28	SDP8600-001
Open-Collector Output									
10	TTL	12	15	7	480-1950-ND	3.33	1.81	1.70	SDP8314-301

Slotted Optoschmitt Sensors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (ns)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
Transmissive									
11	Diode	7	15	70	480-1945-ND◆	7.63	4.58	4.35	HOA6990-T51
12	Transistor	10	10	60/15	480-1933-ND	5.02	2.92	2.74	HOA0961-N51
	Transistor	10	10	60/15	480-1934-ND◆	5.02	2.92	2.74	HOA0971-N51
	Open-Collector	12	15	70	480-1943-ND◆	5.96	3.56	3.33	HOA6961-T51
13	Open-Collector	4.5~12	50	70	480-2974-ND◆ ***NEW!***	9.66	6.04	5.64	HOA6991-T51
14	Schmitt Trigger	12	12	60/15	480-1941-ND◆	5.76	3.44	3.22	HOA2004-001
15	Transistor	12	12	60/6	480-1942-ND◆	9.13	5.71	5.43	HOA2005-001
16	Totem Pole	7	15	70	480-1944-ND◆	5.14	3.05	2.86	HOA6972-N55
		12	15	70	480-1946-ND	7.55	4.53	4.31	HOA6991-T55
Connectorized Transmissive — RoHS Compliant									
16	Totem Pole	5.5	40	70	480-1947-ND	9.44	5.90	5.61	HOA7720-M22
Encoder Detector — RoHS Compliant									
17	Inverting Logic	5.5	7	100	480-1949-ND	3.49	1.97	1.81	HLC2701-001

◆ ***RoHS Compliant***

Reflective Object Sensors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (µs)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
18	Transistor	30	30	15	480-1928-ND	4.59	2.63	2.47	HOA0149-001
19	Transistor	30	30	15	480-1935-ND	4.59	2.63	2.47	HOA1397-002
	Darlington	15	30	75	480-1936-ND	4.66	2.67	2.50	HOA1397-032
20	Transistor	30	30	15	480-1948-ND	2.89	1.54	1.45	HLC1395-001
21	Transistor	30	30	15	480-1985-ND	13.24	8.73	8.43	HOA1180-002
	Transistor	30	50	15	480-2971-ND ***NEW!***	9.99	6.52	6.09	HOA2498-002
	Darlington	15	50	75	480-2960-ND ***NEW!***	16.31	10.75	10.38	HOA1180-003
22	Transistor	30	30	15	480-1986-ND	11.32	7.30	7.05	HOA1404-002
	Darlington	15	50	75	480-2961-ND ***NEW!***	12.64	8.15	7.87	HOA1404-003
23	Transistor	30	0.2	15	480-1987-ND	5.09	2.96	2.78	HOA1405-001
		30	50	15	480-2962-ND ***NEW!***	23.39	16.38	15.79	HOA1406-001
		30	0.8	15	480-1988-ND	5.16	3.01	2.82	HOA1405-002
		30	50	15	480-2957-ND ***NEW!***	3.28	1.78	1.68	HLC1395-002
24	Photodarlington	15	50	75	480-2963-ND ***NEW!***	8.55	5.35	5.08	HOA1870-033
Transmissive									
11	Transistor	30	50	15	480-2958-ND ***NEW!***	7.74	4.65	4.42	HOA0881-T55
15	Transistor	30	50	15	480-2969-ND ***NEW!***	8.69	5.44	5.16	HOA1887-012
25	TTL	4.5~5	50	100ns	480-2959-ND ***NEW!***	8.40	5.26	5.00	HOA0901-012
26	Transistor	30	30	15	480-1989-ND	8.88	5.55	5.27	HOA1877-001
	Transistor	30	50	15	480-2966-ND ***NEW!***	9.70	6.33	5.91	HOA1877-002
	Darlington	15	50	75	480-2967-ND ***NEW!***	10.72	7.00	6.53	HOA1877-003
27	Transistor	30	50	15	480-2965-ND ***NEW!***	9.70	6.33	5.91	HOA1875-002
28	10kΩ Pull-Up	12	50	60/15ns	480-2970-ND ***NEW!***	5.35	3.19	2.99	HOA2001-001
29	Transistor	30	50	15	480-2968-ND ***NEW!***	6.25	3.73	3.49	HOA1884-012
NEW! Emitter Detector Pair NEW!									
31	—	2~7	10	—	480-2972-ND†	15.17	10.00	9.66	HOA6299-002
	2.4kΩ Pull-Up	4.5~12	10	5	480-2973-ND‡	17.59	11.40	11.20	HOA6299-003

† Emitter ‡ Detector

Slotted Optical Sensors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (µs)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
11	Transistor	30	15	15	480-1939-ND◆	6.45	3.95	3.74	HOA1881-012
		30	30	15	480-1931-ND	6.03	3.60	3.37	HOA0890-L51
12	Transistor	30	30	15	480-1938-ND	5.35	3.19	2.99	HOA1879-015
					480-1929-ND◆	4.00	2.25	2.07	HOA0866-T55
					480-1930-ND◆	4.52	2.59	2.43	HOA0875-N51
24	Transistor	30	30	15	480-1937-ND◆	7.95	4.77	4.53	HOA1870-031
27	Transistor	30	82	15	480-1940-ND◆	3.55	2.00	1.84	HOA1882-012
28	Darlington	15	50	75	480-2964-ND◆ ***NEW!***	5.17	3.01	2.82	HOA1873-013
Transmissive Encoder — RoHS Compliant									
30	TTL	5.5	12	20	480-1932-ND	8.46	5.29	5.03	HOA0902-011

◆ ***RoHS Compliant***

Panasonic

PIR Motion Sensors

Panasonic Electric Works

MP motion sensors are passive infrared sensors which detect changes in infrared rays when there is movement from a person or object. Intended as human body and animal detection with the world's smallest built-in amplifier design and small size. Perfect for connecting directly into a microprocessor. **Sensor Types:** • Standard Detection for most general purpose movement detection • Slight Detection for movements as low as 7.8" • Spot Detection for detecting movements in a much smaller area or focused spot. • 10 Meter Detection for long distance, wide area movement detection **Output Types:** • Digital for automated On-Off controls, energy saving for vending machines, ATMs, video games and theme parks • Analog for fine motion detection, slight movements and small detection • Lens color does not affect sensor operation

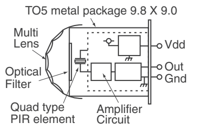

Fig. 1

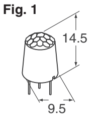

64 Zones

Fig. 2

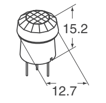

104 Zones

Fig. 3

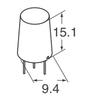

24 Zones

Fig. 4

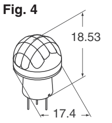

80 Zones

Fig.	Sensor Type	Detection Distance	Output Type	Lens Color	Digi-Key Part No.	Price Each		Panasonic Part No.
						1	25	
1	Standard Detection	16.4' Max	Digital - 5V	Black	255-1849-ND	34.69	31.86	AMN11111
			Digital - 5V	White	255-1812-ND	34.69	31.86	AMN11112
			Digital - 3V Low Power	Black	255-1808-ND	35.38	32.49	AMN41121
			Analog	Black	255-1815-ND	34.69	31.86	AMN21111
			Analog	White	255-1805-ND	34.69	31.86	AMN21112
2	Slight Detection	6.56' Max	Digital - 5V	White	255-1813-ND	34.69	31.86	AMN12112
			Digital - 3V Low Power	Black	255-1809-ND	35.38	32.49	AMN42121
			Analog	Black	255-1816-ND	34.69	31.86	AMN22111
			Analog	White	255-1806-ND	34.69	31.86	AMN22112
3	Spot Detection	16.4' Max	Digital - 5V	Black	255-1850-ND	34.69	31.86	AMN13111
			Digital - 5V	White	255-1814-ND	34.69	31.86	AMN13112
			Digital - 3V Low Power	Black	255-1810-ND	35.38	32.49	AMN43121
			Analog	Black	255-1804-ND	35.38	32.49	AMN23111
			Analog	White	255-1807-ND	34.69	31.86	AMN23112
4	10 meter Detection	32.8' Max	Digital - 5V	White	255-1803-ND	36.63	33.64	AMN14112
			Digital - 3V Low Power	Black	255-1811-ND	38.64	35.49	AMN44121
			Analog	Black	255-1817-ND	36.63	33.64	AMN24111
			Analog	White	255-1818-ND	36.63	33.64	AMN24112

TT electronics OPTEK Technology

Switches

Fig. 1

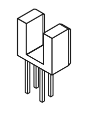

Fig. 2

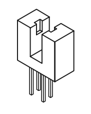

Fig. 3

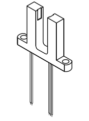

Fig. 4

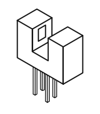

Fig. 5

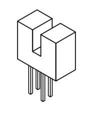

Fig. 6

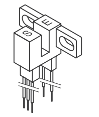

Fig. 7

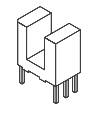

Fig. 8

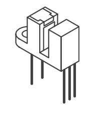

Fig. 9

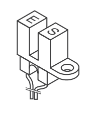

Fig. 10

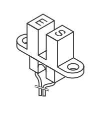

Fig. 11

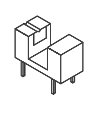

Fig. 12

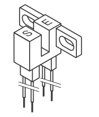

Fig. 13

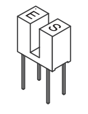

Fig. 14

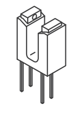

Fig. 15

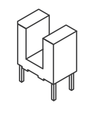

Fig. 16

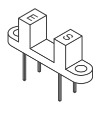

Fig. 17

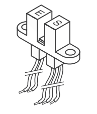

Fig. 18

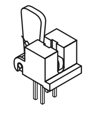

Fig. 19

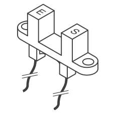

Fig. 20

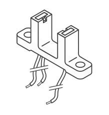

Fig. 21

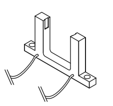

Fig.	Output Type	Slot Width Inch (mm)	Lead Spacing Inch (mm)	Digi-Key Part No.	Price Each			TT Electronics Part No.
					1	100	250	
				Slotted Optical				
1	Rbe Phototransistor	.190 (4.83)	.320 (8.13)	365-1008-ND	2.15	1.25	1.20	OPB620
2	Phototransistor	.150 (3.81)	.300 (7.62)	365-1017-ND	2.17	1.27	1.22	OPB804
3	Phototransistor	.20 (5.08)	—	365-1260-ND	5.56	3.24	3.11	OPB817Z
				365-1264-ND	7.59	4.42	4.25	OPB917BZ
4	Phototransistor	.200 (5.08)	.400 (10.16)	365-1019-ND	3.00	1.75	1.68	OPB818
5	Phototransistor	.100 (2.54)	.300 (7.62)	365-1021-ND	2.78	1.62	1.56	OPB848
6	Photologic	.125 (3.18)	—	365-1234-ND	7.10	4.13	3.97	OPB941W51Z
				365-1265-ND	7.07	4.12	3.96	OPB930W55Z
7	Photologic	.190 (4.83)	.320 (8.13)	365-1090-ND	2.78	1.62	1.56	OPB625
		.125 (3.18)		365-1111-ND	4.81	2.80	2.70	OPB970N11
		.125 (3.18)		365-1113-ND	4.24	2.47	2.37	OPB973N51
8	Photologic	.125 (3.18)	.320 (8.13)	365-1087-ND	3.91	2.28	2.19	OPB460L11
9	Phototransistor	.125 (3.18)	—	365-1341-ND	5.34	3.11	2.99	OPB880P51Z
10	Photologic	.125 (3.18)	—	365-1246-ND	6.22	3.62	3.48	OPB990T55Z
	Phototransistor	.125 (3.18)	—	365-1235-ND	5.31	3.09	2.97	OPB891T51Z
	Phototransistor	.125 (3.18)	—	365-1401-ND	5.17	3.01	2.90	OPB829CZ
11	Phototransistor	.205 (5.21)	.380 (9.65)	365-1105-ND	2.67	1.56	1.50	OPB855
12	Phototransistor	.125 (3.18)	—	365-1335-ND	5.75	3.35	3.22	OPB830W55Z
			—	365-1337-ND	7.34	4.28	4.11	OPB840W11Z
			.320 (8.13)	365-1101-ND	4.02	2.34	2.25	OPB840L11
			—	365-1338-ND	5.78	3.36	3.24	OPB841W55Z
13	Phototransistor	.125 (3.18)	.220 (5.59)	365-1106-ND	4.26	2.48	2.39	OPB865N11
14	Phototransistor	.160 (4.06)	.300 (7.62)	365-1099-ND	2.31	1.35	1.30	OPB825
15	Phototransistor	.150 (3.81)	.275 (6.99)	365-1089-ND	2.15	1.25	1.20	OPB610
16	Photologic	.125 (3.18)	.320 (8.13)	365-1110-ND	4.92	2.87	2.76	OPB960T11
				365-1112-ND	4.04	2.36	2.27	OPB970T55
17	Photologic	.125 (3.18)	—	365-1402-ND	6.41	3.73	3.59	OPB981T51Z
		.125 (3.18)	—	365-1403-ND	6.30	3.67	3.53	OPB990T51Z
				Slotted Optical Flag				
18	Transistor	.080 (2.03)	.275 (6.99)	365-1009-ND	5.34	3.11	2.99	OPB680
				Wide Gap Slotted Optical				
16	Phototransistor	.375 (9.53)	.570 (14.48)	365-1094-ND	3.25	1.89	1.82	OPB800L55
				365-1095-ND	3.33	1.94	1.87	OPB810L51
				365-1097-ND	3.19	1.86	1.79	OPB811L55
19	Phototransistor	.375 (9.53)	—	365-1331-ND	5.64	3.28	3.16	OPB810W51Z
				365-1333-ND	5.39	3.14	3.02	OPB811W55Z
20	Phototransistor	.375 (9.53)	—	365-1400-ND	5.78	3.36	3.24	OPB815WZ
21	Phototransistor	1.26 (32)	—	365-1262-ND	7.78	4.53	4.36	OPB819Z

Sensors

Digi-Reel®

Fig. 1

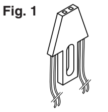

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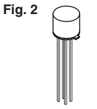

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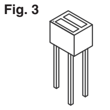

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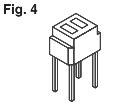

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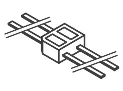

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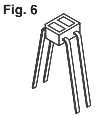

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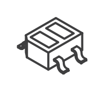

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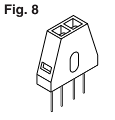

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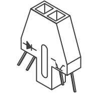

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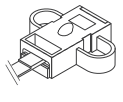

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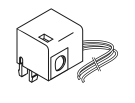

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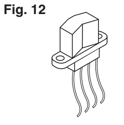

Fig. 13 — N Package

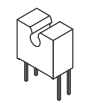

Fig. 14 — T Package

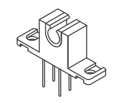

Reflective Object Sensors

Fig.	Continuous Forward Curr. (mA)	Reverse DC Voltage	V(BR)CEO Voltage (Min.)	Min. Lead Wire Length Inch (mm)	Digi-Key Part No.	Price Each			TT Electronics Part No.
						1	100	250	
1	100	2.0	25	18.0 (457.2)	365-1399-ND	12.35	7.19	6.91	OPB700ALZ
	100			4.0 (101.6)	365-1364-ND	10.92	6.36	6.11	OPB700Z
	50			18.0 (457.2)	365-1253-ND	14.27	8.31	7.99	OPB701ALZ
2	50	3.0	30	.50 (12.7)	365-1012-ND	8.36	4.87	4.68	OPB710
3	50	2.0	15	.45 (11.43)	365-1093-ND	3.69	2.15	2.07	OPB707A
			30	.45 (11.43)	365-1092-ND	2.86	1.67	1.60	OPB706A
4	50	2.0	30	.180 (4.57)	365-1088-ND	1.73	1.01	.97	OPB606A

Fig.	Continuous Forward Curr. (mA)	Reverse DC Voltage	V(BR)CEO Voltage (Min.)	Min. Lead Wire Length Inch (mm)	Digi-Key Part No.	Price Each			TT Electronics Part No.
						1	100	250	
5	50	5.0	30	.374 (9.5)	365-1407-ND	.50	.29	.28	OPB609AX
6	50	5.0	30	.370 (9.4)	365-1408-ND	.50	.29	.28	OPB609RA
7	50	5.0	30	.038 (.95)	365-1409-1-ND◊	.85	.47	.42	OPB609GU
					365-1409-2-ND†	380.00/1,000			
8	40	2.0	30	.15 (3.81)	365-1014-ND*	3.16	1.84	1.77	OPB742
					365-1015-ND*	3.93	2.29	2.20	OPB745
9	40	2.0	30	.165 (4.19)	365-1091-ND	3.63	2.12	2.04	OPB704

◊ Cut Tape † Tape and Reel * *Collector Emitter Voltage:* OPB742: 30V; OPB745: 15V

Reflective Color Sensor

Fig.	Continuous Forward Current (mA)	Supply Voltage V_{DD}	Digi-Key Part No.	Price Each			TT Electronics Part No.
				1	100	250	
10	30	5	365-1378-ND	24.92	14.50	13.94	OPB780Z

Photologic® Reflective Object Sensors

Fig.	Operating DC Supply Voltage	Minimum Lead Wire Length Inch (mm)	Digi-Key Part No.	Price Each			TT Electronics Part No.
				1	100	250	
11	4.75 ~ 5.25	18.0 (457.2)	365-1255-ND	9.35	5.44	5.24	OPB716Z
12	4.75 ~ 5.25	12.0 (304.8)	365-1258-ND	9.74	5.67	5.45	OPB770TZ

Liquid Tube Sensors

Fig.	Continuous Forward Current (mA)	Reverse DC Voltage	V(BR)CEO Voltage (Min.)	Min. Lead Wire Length Inch (mm)	Digi-Key Part No.	Price Each			TT Electronics Part No.
						1	100	250	
13	50	2.0	30	.33 (8.38)	365-1236-ND	6.93	4.04	3.88	OPB350
			25	.33 (8.38)	365-1237-ND	7.40	4.31	4.14	OPB350L187
			25	.33 (8.38)	365-1238-ND	7.40	4.31	4.14	OPB350L250
			24	.33 (8.38)	365-1405-ND	7.40	4.31	4.14	OPB350L062
14	50	2.0	25	24 (610)	365-1239-ND	9.65	5.62	5.40	OPB350W187Z
			25	24 (610)	365-1240-ND	9.65	5.62	5.40	OPB350W250Z
			24	24 (610)	365-1406-ND	9.65	5.62	5.40	OPB350W062Z

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TT electronics
OPTEK Technology

Infrared Emitters and Receivers

Fig. 1
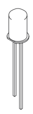

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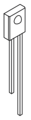

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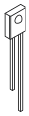

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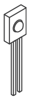

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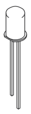

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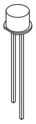

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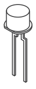

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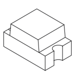

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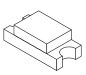

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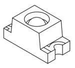

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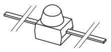

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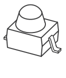

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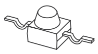

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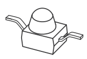

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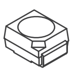

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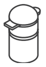

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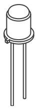

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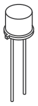

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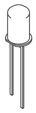

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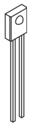

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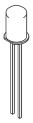

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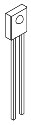

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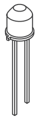

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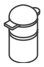

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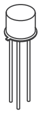

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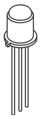

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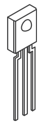

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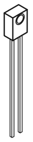

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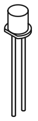

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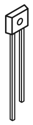

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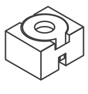

Fig. 32
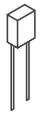

Infrared Light Emitting Diodes

Fig.	Style/ Pkg.	Pulse Forward Current	Optical Power Output	Peak Emission Wavelength	Beam Angle	Digi-Key Part No.	Price Each 1	Price Each 100	Price Each 250	TT Electronics Part No.
				Plastic						
1	T-1 3/4	750mA	.50mW/cm^2	890nm	50°	365-1060-ND	.99	.58	.56	OP294
	T-1 3/4	5.0A	44mW/cm^2	890nm	20°	365-1061-ND	1.07	.63	.60	OP295A
	T-1 3/4	5.0A	77mW/cm^2	890nm	20°	365-1062-ND	1.07	.63	.60	OP295B
	T-1 3/4	1.0A	0.70mW/cm^2	890nm	20°	365-1063-ND	1.07	.63	.60	OP297A
	T-1 3/4	5.0A	210mW/cm^2	890nm	50°	365-1056-ND	1.07	.63	.60	OP290A
	T-1 3/4	5.0A	16mW/cm^2	890nm	50°	365-1057-ND	1.07	.63	.60	OP291A
	TO-46	2.0A	16mW/cm^2	890nm	60°	365-1058-ND	.99	.58	.56	OP293A
	TO-46	2.0A	13mW/cm^2	890nm	60°	365-1059-ND	.99	.58	.56	OP293B
	TO-46	2.0A	3.0mW/cm^2	890nm	25°	365-1064-ND	.99	.58	.56	OP298A
	TO-46	2.0A	2.4mW/cm^2	890nm	25°	365-1065-ND	.99	.58	.56	OP298B
	T-1	3.0A	2.70mW/cm^2	890nm	18°	365-1054-ND	1.27	.74	.71	OP265A
2	Side-View	3.0A	0.60mW/cm^2	890nm	40°	365-1052-ND	.99	.58	.56	OP240A
	Side-View	3.0A	0.60mW/cm^2	890nm	40°	365-1053-ND	1.07	.63	.60	OP245A
	Side-View	3.0A	0.40mW/cm^2	935nm	40°	365-1043-ND	.99	.58	.56	OP140A
3	Side-View	3.0A	0.30mW/cm^2	935nm	40°	365-1044-ND	.99	.58	.56	OP140B
4	Side-View	3.0A	0.40mW/cm^2	935nm	40°	365-1045-ND	1.05	.61	.59	OP145A
5	T-1	3.0A	1.95mW/cm^2	935nm	18°	365-1046-ND	1.13	.66	.64	OP165A
	T-1	3.0A	0.85mW/cm^2	935nm	18°	365-1047-ND	1.13	.66	.64	OP165C
	T-1	3.0A	1.95mW/cm^2	935nm	18°	365-1049-ND	1.27	.74	.71	OP166A
6	T-1	3.0A	0.50mW	935nm	90°	365-1048-ND	1.24	.72	.70	OP165W
7	T-1	3.0A	1.00mW	890nm	90°	365-1055-ND	1.27	.74	.71	OP266W
				SMT Plastic						
8	0805	50mA	0.2mW/cm^2	880nm	150°	365-1147-1-ND◊ 365-1147-2-ND†	.42 540.00/3,000	.28	.24	OP200 OP200
9	1206	50mA	0.2mW/cm^2	880nm	150°	365-1148-1-ND◊ 365-1148-2-ND†	.42 380.00/2,000	.28	.24	OP250 OP250
10	1206	50mA	0.3mW/cm^2	880nm	105°	365-1149-1-ND◊ 365-1149-2-ND†	.49 440.00/2,000	.32	.27	OP251 OP251
11	Axial	50mA	1.5mW/cm^2	880nm	25°	365-1150-ND	.47	.28	.27	OP270
12	Gull Wing	50mA	1.5mW/cm^2	880nm	25°	365-1151-1-ND◊ 365-1151-2-ND†	.55 250.00/1,000	.31	.28	OP271 OP271
13	Yoke	50mA	1.5mW/cm^2	880nm	25°	365-1152-1-ND◊ 365-1152-2-ND†	.57 250.00/1,000	.32	.28	OP272 OP272
14	Rev. Gull Wing	50mA	1.5mW/cm^2	880nm	25°	365-1153-1-ND◊ 365-1153-2-ND†	.59 260.00/1,000	.33	.29	OP273 OP273
15	PLCC	50mA	0.5mW/cm^2	880nm	100°	365-1154-1-ND◊ 365-1154-2-ND†	.52 480.00/2,000	.34	.29	OP280 OP280
				Hermetically Sealed						
16	PC Mount	1.0A	1.00mW/cm^2	935nm	24°	365-1040-ND	3.52	2.05	1.97	OP124
	PC Mount	1.0A	3.50mW/cm^2	890nm	24°	365-1050-ND	3.41	1.99	1.91	OP224
17	TO-46	10.0A	4.0mW	935nm	18°	365-1041-ND	3.11	1.81	1.74	OP132
	TO-46	10.0A	5.0mW	935nm	18°	365-1042-ND	3.11	1.81	1.74	OP133
18	TO-46	10.0A	5.0mW/cm2	890nm	50°	365-1051-ND	3.30	1.92	1.85	OP233W

◊ Cut Tape † Tape and Reel

PIN Silicon Photodiodes

Fig.	Style/ Pkg.	V_R	Peak Sensitivity Wavelength	tr/tf	Digi-Key Part No.	Price Each 1	Price Each 100	Price Each 250	TT Electronics Part No.
19	T-1	60V	935nm	5ns	365-1084-ND	.91	.53	.51	OP906
	T-1 3/4	60V	890nm	5ns	365-1086-ND	1.13	.66	.64	OP999
20	Side-View	60V	935nm	5ns	365-1085-ND	.94	.55	.53	OP950

Infrared NPN Phototransistors

Fig.	Style/ Pkg.	V_{CEO}	I_C	Peak Sensitivity Wavelength	Digi-Key Part No.	Price Each 1	Price Each 100	Price Each 250	TT Electronics Part No.
				SMT Phototransistors					
9	1206	30V	0.5mA	935nm	365-1155-1-ND◊ 365-1155-2-ND†	.39 360.00/2,000	.26	.22	OP520 OP520
9	1206	30V	0.5mA	935nm	365-1156-1-ND◊ 365-1156-2-ND†	.36 320.00/2,000	.24	.20	OP521 OP521
10	1206	30V	1.0mA	935nm	365-1157-1-ND◊ 365-1157-2-ND†	.36 320.00/2,000	.24	.20	OP522 OP522
11	Axial	30V	2.5mA	935nm	365-1158-ND	.36	.21	.20	OP570
12	Gull Wing	30V	2.5mA	935nm	365-1159-1-ND◊ 365-1159-2-ND†	.39 180.00/1,000	.22	.20	OP571
13	Yoke	30V	5.0mA	935nm	365-1160-1-ND◊	.30	.18	.17	OP572
14	Rev. Gull Wing	30V	2.5mA	935nm	365-1161-1-ND◊ 365-1161-2-ND†	.39 180.00/1,000	.22	.20	OP573
15	PLCC	30V	2.5mA	935nm	365-1162-1-ND◊ 365-1162-2-ND†	.52 460.00/2,000	.29	.26	OP580 OP580
				Phototransistors					
1	T-1 3/4	30V	2.35mA	890nm	365-1077-ND	.91	.53	.51	OP599A
21	T-1	30V	4.30mA	935nm	365-1066-ND	.83	.48	.47	OP505A
	T-1	30V	2.15mA	935nm	365-1067-ND	.83	.48	.47	OP505B
	T-1	30V	4.30mA	935nm	365-1068-ND	1.05	.61	.59	OP506A
	T-1	30V	2.15mA	935nm	365-1069-ND	1.05	.61	.59	OP506B
22	Side-View	30V	2.55mA	935nm	365-1070-ND	.94	.55	.53	OP550A
	Side-View	30V	1.30mA	935nm	365-1071-ND	.94	.55	.53	OP550B
	Side-View	30V	0.25mA	935nm	365-1072-ND	.94	.55	.53	OP550C
23	TO-18	30V	3.0mA	890nm	365-1074-ND	.94	.55	.53	OP593A
	TO-18	30V	7.5mA	890nm	365-1075-ND	.94	.55	.53	OP598A
	TO-18	30V	5.0mA	890nm	365-1076-ND	.94	.55	.53	OP598B
24	PC Mount	25V	7.0mA	890nm	365-1078-ND	3.19	1.86	1.79	OP644SL
25	TO-18	30V	0.5mA	890nm	365-1079-ND	3.82	2.23	2.14	OP801WSL
	TO-18	30V	2.5mA	890nm	365-1080-ND	3.82	2.23	2.14	OP802WSL
26	TO-18	30V	7.0mA	890nm	365-1081-ND	2.94	1.72	1.65	OP804SL
	TO-18	30V	15.0mA	890nm	365-1082-ND	2.94	1.72	1.65	OP805SL
				Photodarlington					
20	Side-View	15V	1.1mA	935nm	365-1073-ND	1.68	.98	.94	OP560C
25	TO-18	15V	4mA	890nm	365-1083-ND	3.82	2.23	2.14	OP830WSL

◊ Cut Tape † Tape and Reel

Fig.	Style/ Pkg.	Output	Sensitivity Wavelength	Digi-Key Part No.	Price Each 1	Price Each 100	Price Each 250	TT Electronics Part No.
			Photologic					
27	Side-View	TTL/LSTTL	935nm	365-1115-ND	2.12	1.24	1.19	OPL550
	Side-View	TTL/LSTTL	935nm	365-1116-ND	2.23	1.30	1.25	OPL550-OCA

Infrared Light-Emitting Diodes

- Reverse Voltage: 2.0V
- Rise/Fall Time: 10ns

Fig.	Style/ Package	Continuous Forward DC Current (mA)	Peak Emission (nm)	Apertured Irrad. Min. / Max. (mW / cm^2)	Digi-Key Part No.	Price Each 1	Price Each 100	Price Each 250	TT Electronics Part No.
28	Side View	50	850	.10 / .90	365-1005-ND	2.59	1.51	1.45	OP245PS
29	T-1	50	850	.055 / .55	365-1006-ND	2.34	1.36	1.31	OP245PS
30	End-Looking	50	850	.10 / .90	365-1007-ND	2.28	1.33	1.28	OP268FPS

VCSEL Infrared Emitting Laser Diodes

Fig.	Style/ Package	Peak Current Forward	Optical Power Output	Peak Emission Wavelength	Beam Divergence	Digi-Key Part No.	Price Each 1	Price Each 100	Price Each 250	TT Electronics Part No.
24	Pill Pack Flat	20mA	1.5mW	860nm	20°	365-1141-ND◆	8.66	5.04	4.85	OPV320
28	Lateral Convex	20mA	1.5mW	850nm	6°	365-1146-ND◆	8.72	5.08	4.88	OPV382
31	SOT-23 Flat	30mA	1.1mW	850nm	12°	365-1122-ND	15.75	13.92	13.62	OPV240
32	Lateral Flat	20mA	1.5mW	850nm	20°	365-1145-ND◆	8.47	4.93	4.74	OPV380

◆ ***RoHS Compliant***

N

DigiReel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Kingbright Infrared LEDs

Dim. in mm

Fig. 1

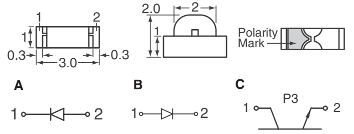

Fig. 2

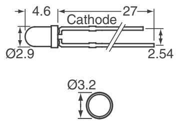

Fig.	LED Dia. (mm)	Peak Wave-Length	Lens Color	Oper. Curr. (mA)	Typ. Forward Voltage	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel‡		Kingbright Part No.
							1	10	100	Qty.	Pricing	
1A	3.0 x 1.0	940nm	Clear	20	1.2	754-1065-1-ND	.33	2.44	17.88	2,000	98.00/M	APA3010F3C
1B	3.0 x 1.0	880nm	Clear	20	1.3	754-1070-1-ND	.59	4.39	32.18	2,000	176.00/M	APA3010SF4C
1C	3.0 x 1.0	940nm	Blue	—	—	754-1067-1-ND	.39	2.93	21.45	2,000	117.00/M	APA3010P3BT
2	3mm	940nm	Clear	20	1.2	754-1241-ND†	.20	1.51	12.22	—	—	WP7104F3C

‡ For Tape and Reel part number, change 1-ND to 2-ND. † Bulk

Infrared LEDs

Dim. in mm

Fig. 1

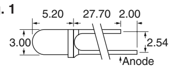

Fig. 2

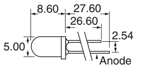

Fig.	LED Dia. (mm)	Peak Wave-Length	Lens Color	Oper. Curr. (mA)	Typ. Forward Voltage	Digi-Key Part No.	Price Each			Lumex Part No.
							1	10	100	
1	3	940 nm	Clear	60	1.2	67-1000-ND	.25	.23	.20	OED-EL-8L
2	5	940 nm	Clear	100	1.5	67-1001-ND	.27	.25	.22	OED-EL-1L2

Panasonic Photo Interrupter

Photo Interrupters are a transmissive photosensor series in which a high efficiency GaAs infrared light emitting diode is used as the light emitting element, and a high sensitivity photo transistor is used as the light detecting element. The two elements face each other, so an object passing between them is detected.

Fig. 1

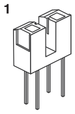

Fig. 2

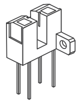

Fig. 3

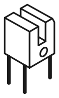

Fig. 4

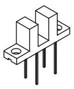

Fig. 5

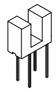

Fig. 6

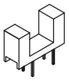

Fig. 7

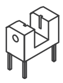

Fig. 8

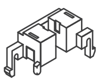

Fig. 9

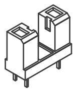

Fig. 10

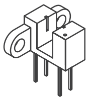

Fig.	Sensing Method	Sensing Distance	Terminal Type	Typ. t_{on}/t_{off} (µsec.)	Digi-Key Part No.	Price Each			Panasonic Part No.
						1	10	100	
1	Slot	3.0mm	PC Board	5/5	CNZ1021-ND◆	1.39	1.16	.93	CNZ1021
2	Slot	3.0mm	PC Board	5/5	CNZ1023-ND◆	1.33	1.07	.80	CNZ1023
3	Slot	0.9mm	PC Board	35/35	CNZ1002-ND	.87	.73	.59	CNZ1002
		1.2mm	PC Board	35/35	CNA1303K-ND	.87	.73	.59	CNA1303K
		2.0mm	PC Board	35/35	CNA1302K-ND◆	.87	.73	.59	CNA1302K
4	Slot	5.0 mm	PC Board	6/6	CNZ1111-ND◆	2.65	2.12	1.65	CNZ1111
5	Slot	5.0mm	PC Board	6/6	CNZ1112-ND◆	2.02	1.62	1.22	CNZ1112
		5.0mm	PC Board	6/6	CNA1012K-ND◆	1.38	1.16	.93	CNA1012K
6	Slot	10.0mm	PC Board	6/6	CNZ1120-ND◆	1.86	1.49	1.12	CNZ1120
7	Slot	1.0mm	PC Board	50/50	CNA1311K-ND◆	.87	.66	.50	CNA1311K
		1.0mm	PC Board	50/50	CNA1311K0TLC-ND◆	1.04	.87	.70	CNA1311K0TLC
		2.0mm	PC Board	50/50	CNA1312K0TLC-ND◆	.98	.82	.66	CNA1312K0TLC
8	Slot	3.0mm	PC Board	5/5	CNA1006N-ND◆	.77	.58	.44	CNA1006N
9	Slot	5.0mm	PC Board	5/5	CNA1007H-ND◆	.74	.56	.42	CNA1007H
10	Slot	5.0mm	PC Board	6/6	CNA1011K-ND◆	1.51	1.21	.91	CNA1011K

◆ ***RoHS Compliant***

ROHM Optical Sensors

Fig. 1

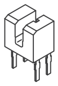

Fig. 2

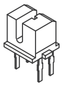

Fig. 3

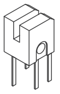

Fig. 4

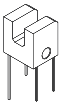

Fig. 5

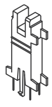

Fig. 6

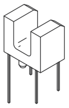

Fig. 7

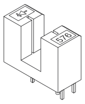

Fig. 8

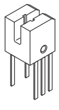

Fig. 9

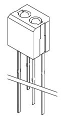

Fig. 10

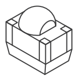

Fig. 11

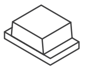

Fig. 12

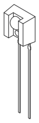

Fig. 13

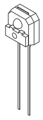

Fig. 14

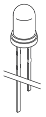

Optical Interrupters

Fig.	Output Type	Slot Width (mm)	Response Time (tr/tf) (µs)	Max. Output Current (mA)	Digi-Key Part No.	Pricing			Rohm Part No.
						1	10	100	
1	NPN	1.0	10/10	30	511-1336-ND	1.41	8.71	63.72	RPI-121
		1.0	10/10	30	511-1338-ND	1.24	7.25	49.58	RPI-124F
		2.0	10/10	30	511-1347-ND	1.18	6.90	47.22	RPI-221
		2.0	10/10	30	511-1348-ND	1.18	6.90	47.22	RPI-222
		4.0	10/10	30	511-1341-ND	1.18	6.90	47.22	RPI-411C1
2	NPN	0.8	10/10	30	511-1337-ND	1.41	8.71	63.72	RPI-122F
3	NPN	1.2	10/10	30	511-1339-ND	1.41	8.71	63.72	RPI-131
		2.0	10/10	30	511-1349-ND	1.13	6.97	50.98	RPI-243
4	NPN	2.0	10/10	30	511-1350-ND	1.24	7.25	49.58	RPI-246
5	NPN	3.0	10/10	30	511-1340-ND	.97	5.69	38.96	RPI-303
6	NPN	3.0	10/10	30	511-1351-ND	1.24	7.25	49.58	RPI-352
7	NPN	5.0	10/10	30	511-1475-ND	1.14	7.18	53.82	RPI-579N1
8	Photo IC	1.1	5/.05	10	511-1342-ND	2.00	12.99	99.42	RPI-1133

Photoreflectors

Fig.	Style/ Pkg.	Maximum Output Current (mA)	V_f (V)	Emitting Wave-length	Digi-Key Part No.	Pricing			Rohm Part No.
						1	10	100	
9	Top	30	1.34	800	511-1366-ND	2.32	15.07	115.32	RPR-220

Phototransistors

Digi-Reel®

Fig.	Output Type	Style/ Pkg.	Max. Output Current (mA)	Peak Sensitivity Wavelength (nm)	Digi-Key Part No.	Pricing			Rohm Part No.
						1	10	100	
10	NPN	SMT	20	800	511-1355-1-ND†	1.06	6.21	42.50	RPM-012PBT87F
		SMT	20	800	511-1355-2-ND‡		317.00/1,000		RPM-012PBT87F
11	NPN	SMT	10	600	511-1356-1-ND†	1.06	6.21	42.50	RPM-075PTT86
		SMT	10	600	511-1356-2-ND‡		909.00/3,000		RPM-075PTT86
12	NPN	Side View	30	800	511-1353-ND	.65	3.80	25.97	RPM-20PBF
13	NPN	Side View	30	800	511-1354-ND	.71	4.14	28.33	RPM-22PB
14	NPN	Top	30	800	511-1357-ND	.65	3.80	25.97	RPT-34PB3F
		T1	30	800	511-1358-ND	.83	4.83	33.05	RPT-37PB3F
		T1	30	800	511-1359-ND	.83	4.83	33.05	RPT-38PB3F

† Cut Tape ‡ Tape and Reel

Infrared Emitters

Fig.	Style/ Pkg.	I_f Max. (mA)	V_f (V)	Emitting Wave-length (nm)	Digi-Key Part No.	Pricing			Rohm Part No.
						1	10	100	
12	Side View	50	1.3	950	511-1361-ND	.89	5.18	35.41	SIM-20ST
13	Side View	50	1.3	950	511-1362-ND	.89	5.18	35.41	SIM-22STF
14	T1	100	1.3	950	511-1363-ND	.57	3.20	20.78	SIR-34ST3FF
	T1 3/4	100	1.3	950	511-1364-ND	.57	3.20	20.78	SIR-56ST3FF
	T1	75	1.2	940	511-1343-ND	1.06	6.21	42.50	SIR-320ST3FF
	T1	75	1.3	940	511-1344-ND	.89	5.18	35.41	SIR-341ST3FF
	T1 3/4	100	1.38	950	511-1345-ND	.77	4.49	30.69	SIR-505STA47F
	T1 3/4	100	1.34	940	511-1365-ND	.50	2.80	18.18	SIR-563ST3FM
	T1 3/4	100	1.6	850	511-1346-ND	1.96	12.73	97.43	SIR-568ST3F

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

VISHAY Semiconductor

Ambient Light Sensors

Fig.	Package	Peak Wave-length (nm)	Bandwidth (nm)	Photo Current Standard Typ. (µA)	View Angle (°)	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
1	0805 SMD	550	450 ~ 610	12	120	751-1056-1-ND† 751-1056-2-ND‡	1.27 1194.75/3,000	1.01	.86	TEMT6200FX01 TEMP6200FX01
2	1206 SMD	540	430 ~ 610	0.04	120	751-1051-1-ND† 751-1051-2-ND‡	2.46 2285.40/3,000	1.88	1.62	TEMD6010FX01 TEMD6010FX01
	1206 SMD	570	360 ~ 970	50	120	751-1055-1-ND† 751-1055-2-ND‡	1.44 1356.75/3,000	1.14	.98	TEMT6000X01 TEMT6000X01
3	3mm	570	360 ~ 970	200	60	751-1057-ND	.70	.55	.42	TEPT4400
4	5mm	570	360 ~ 970	350	40	751-1058-ND	.74	.58	.45	TEPT5600
5	5mm	570	360 ~ 970	75	100	751-1059-ND	.74	.58	.45	TEPT5700

† Cut Tape ‡ Tape and Reel

Reflective Sensors

Fig.	Operating Range (mm)	Peak Operating Distance (mm)	Output	Package	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
6	0 ~ 4.5	≤0.5	Transistor	—	751-1025-ND	1.26	1.01	.84	CNY70
7	0.2 ~ 4.0	1	Transistor	Straight Leads Bent Leads	751-1031-ND 751-1032-ND	1.14 1.17	.99 .94	.76 .79	TCRT1000 TCRT1010
8	0.2 ~ 15	2.5	Transistor	—	751-1033-5-ND 751-1034-5-ND	1.14 1.14	.99 .99	.76 .76	TCRT5000 TCRT5000L
9	2 ~ 25	6	PIN Photodiode	—	751-1029-1-ND† 751-1029-2-ND‡	3.14 1942.20/2,000	2.39	2.06	TCND5000 TCND5000

† Cut Tape ‡ Tape and Reel

Transmissive or Interrupter Sensors

Fig.	Gap (mm)	Package	Aperture (mm)	Rise/Fall Time (µs)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel§ Pricing 2,000	Vishay Part No.
10	3.0	—	0.3 0.3	20 / 30 20 / 30	751-1030-1-ND 751-1040-1-ND	2.14 2.43	1.69 1.85	1.45 1.59	670.95/M 751.40/M	TCPT1300X01 TCUT1300X01
11	2.8	—	0.5	15 / 10	751-1036-5-ND†	1.11	.89	.74	—	TCST1230
12	2.7	—	0.5	15 / 10	751-1039-5-ND†	1.64	1.42	1.09	—	TCST5250
13	3.1	w/o flange	0.5	10 / 8	751-1035-5-ND†	1.45	1.16	.97	—	TCST1202
	3.1	with flange	0.5	10 / 8	751-1037-5-ND†	1.61	1.26	1.06	—	TCST2202
			0.25	10 / 8	751-1038-5-ND†	1.81	1.42	1.19	—	TCST2300

† Tube § For Tape & Reel part number, change 1-ND to 2-ND.

Dimensions in mm

Fig. 1

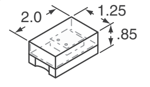

Fig. 2

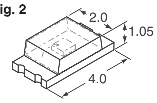

Fig. 3

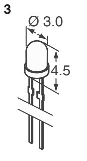

Fig. 4

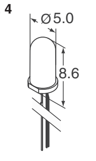

Fig. 5

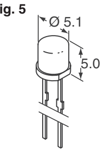

Fig. 6

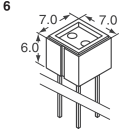

Fig. 7

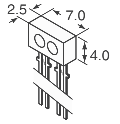

Fig. 8

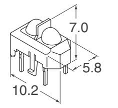

Fig. 9

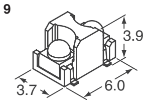

Fig. 10

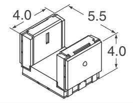

Fig. 11

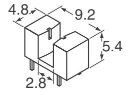

Fig. 12

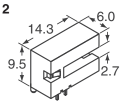

Fig. 13

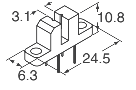

Melexis

Microelectronic Integrated Systems

Programmable Linear Hall Effect ICs

Features:

- Quad switched/chopper stabilized
- Ratio metric output for A/D interface
- Adjustable quiescent voltage (V_{OQ})
- Very low quiescent voltage temperature drift
- Adjustable sensitivity
- Adjustable temperature compensation of sensitivity

Dimensions in mm

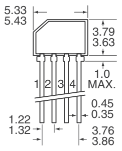

1: VDD
2: Test/Readback
3: GND
4: Output

Description	Temp. Range (°C)	Package	Digi-Key Part No.	Price Each 1	10	25	50
Precision Programmable Linear Hall IC	-40 ~ 85	4-SIP(VA)	MLX90215EVA-ND◆	9.56	7.35	5.66	4.35
Precision Programmable Linear Hall IC	-40 ~ 150	4-SIP(VA)	MLX90215LVA-ND◆	9.99	7.71	5.93	4.56
Precision Programmed Linear Hall IC, 10mV/mT, 2.5V			MLX90215LVA-BC03-ND	19.80	15.56	14.62	14.15
Precision Programmed Linear Hall IC, 20mV/mT, 2.5V			MLX90215LVA-CC03-ND	19.80	15.56	14.62	14.15
Precision Programmed Linear Hall IC, 50mV/mT, 2.5V			MLX90215LVA-GC03-ND	19.80	15.56	14.62	14.15
Precision Programmed Linear Hall IC, 100mV/mT, 1V			MLX90215LVA-LA03-ND	47.15	36.78	29.24	28.58
Precision Programmed Linear Hall IC, 100mV/mT, 2.5V			MLX90215LVA-LC03-ND	47.15	36.78	29.24	28.58
Daughter Board for PTC Devices			PTC-04-DB-90316-ND	145.00	—	—	—
Programmer for PTC Devices			PTC-04-ND	1450.00	—	—	—

◆ *RoHS Compliant*

Hall Effect Sensor ICs — US Series

Package	Supply Voltage	Operating Point (mT) Min.	Typ.	Max.	Release Point (mT) Min.	Typ.	Max.	Output Type	Operating Type†	Temperature Range	Digi-Key Part No.	Cut Tape Price Each 1	10	25	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
TSOT-3L UA-92	3.5 ~ 24	1.0	5.0	9.0	-9.0	-5.0	-1.0	Open Drain	Bidirectional	-40°C ~ 85°C	US1881ESECT-ND◆ US1881EUA-ND§	1.54 1.62	1.19 1.25	.91 .96	.54 .57	US1881ESETR-ND◆ —	414.00/M —
SOT-23 UA-92										-40°C ~ 150°C	US1881LSOCT-ND US1881LUA-ND§	1.66 1.80	1.29 1.39	1.00 1.07	.60 .63	— —	— —
TSOT-3L	3.5 ~ 24	0.5	—	9.5	-9.5	—	-0.5				US1881LSECT-ND◆	1.71	1.32	1.01	.60	US1881LSETR-ND◆	459.54/M
SOT-23 TSOT-3L UA-92	3.5 ~ 24	0.5	2.0	4.5	-4.5	-2.0	-0.5	Open Drain	Bidirectional	-40°C ~ 85°C	US2881ESOCT-ND US2881ESECT-ND◆ US2881EUA-ND§	1.94 1.71 1.80	1.52 1.32 1.39	1.17 1.01 1.07	.70 .60 .63	— US2881ESETR-ND◆ —	— 460.00/M —
SOT-23 UA-92										-40°C ~ 150°C	US2881LSOCT-ND US2881LUA-ND◆§	2.09 2.00	1.63 1.54	1.26 1.19	.75 .70	US2881LSOTR-ND —	559.70/M —
SOT-23 TSOT-3L UA-92	3.5 ~ 24	-3.0	—	6.0	-6.0	—	3.0	Open Drain	Bipolar	-40°C ~ 85°C	US2882ESOCT-ND US2882ESECT-ND◆ ***NEW!*** US2882EUA-ND§	1.73 1.62 1.71	1.35 1.25 1.32	1.04 .96 1.01	.62 .57 .60	— US2882ESETR-ND◆ ***NEW!*** —	— 436.56/M —
SOT-23 UA-92	3.5 ~ 24	-2.0	2.0	6.0	-6.0	-2.0	2.0		Bidirectional	-40°C ~ 150°C	US2882LSOCT-ND US2882LUA-ND§◆	1.73 1.90	1.35 1.46	1.04 1.13	.62 .67	— —	— —
TSOT-3L	3.5 ~ 24	-3.5	—	6.0	-6.0	—	3.5				US2882LSECT-ND◆	1.80	1.39	1.07	.64	US2882LSETR-ND◆	485.00/M
UA-92	2.2 ~ 18	0.5	2.0	4.5	-4.5	-2.0	-0.5	Open Drain	Bidirectional	-40°C ~ 85°C	US4881EUA-ND§	1.62	1.25	.96	.57	—	—
										-40°C ~ 150°C	US4881LUA-ND§	1.80	1.39	1.07	.63	—	—
UA-92	3.5 ~ 24	15	25	30	9.5	20	28	Open Drain	Unidirectional	-40°C ~ 85°C	US5881EUA-ND§	1.87	1.44	1.11	.66	—	—
										-40°C ~ 150°C	US5881LUA-ND§	2.08	1.60	1.23	.73	—	—
TSOT-3L TSOT-3L UA-92	3.5 ~ 24	7	12	15	3.5	7.5	10	Open Drain	Unipolar	-40°C ~ 85°C	US5781ESECT-ND◆ US5782ESECT-ND◆ US5781EUA-ND◊§	1.97 2.03 2.08	1.52 1.57 1.60	1.17 1.21 1.23	.70 .72 .73	US5781ESETR-ND◆ US5782ESETR-ND◆ —	531.00/M 548.00/M —
TSOT-3L TSOT-3L UA-92										-40°C ~ 150°C	US5781LSECT-ND◆ US5782LSECT-ND◆ US5781LUA-ND◊§	2.19 2.26 2.31	1.69 1.74 1.78	1.30 1.34 1.37	.77 .80 .81	US5781LSETR-ND◆ US5782LSETR-ND◆ —	591.00/M 609.00/M —

◆ *RoHS Compliant* † Unidirectional is only sensitive to either a north or south pole of a magnet. Bidirectional is sensitive to alternating magnetic fields of both north and south poles. § Bulk

TSOT-3L Top View

1: VDD
2: Output
3: GND

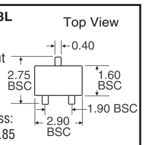

Thickness:
0.90 - 0.85

UA-92 Front View

1: VDD
2: GND
3: Output

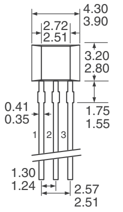

SOT-23 Top View

1: VDD
2: Output
3: GND

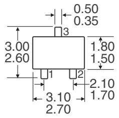

Thickness:
1.30 - 1.00

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TT electronics
OPTEK Technology

Hallogic®
Hall Effect Sensors

Fig. 1

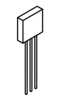

Fig. 2

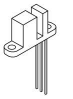

Fig.	Operate Point* Min. / Typ. / Max. (Gauss - B)	Release Point Min. / Typ. / Max. (Gauss - B)	Hysteresis Typ. / Max. (Gauss - B)	Supply Cur. Typ. / Max. (mA)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
1	0/90/180	-100/65/100	25/100	6/9	365-1001-ND	2.67	1.56	1.50	OH090U
	70/—/200	50/—/180	—/—	4/7	365-1003-ND	3.11	1.81	1.74	OHS3140U
	235/300/465	120/235/325	65/200	6/9	365-1036-ND	2.67	1.56	1.50	OH360U
	70/—/350	50/—/330	—/—	4/7	365-1037-ND	3.11	1.81	1.74	OHN3120U

Fig.	Output Current (mA)	Output DC Voltage	Output Rise Typ./ Max.	Output Fall Time Typ./ Max.	Supply Current Typ./ Max. (mA)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
2	25	25	0.21/1.00 µs	0.25/1.00 µs	4/7	365-1002-ND	6.74	3.92	3.77	OHB900

Latching

Fig.	Operate Point* Min./ Max. (Gauss - B)	Release Point Min. / Max. (Gauss - B)	Hysteresis Min. (Gauss - B)	Supply Cur. Typ./ Max. (mA)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
1	25/170	-170/-25	100	4/7	365-1039-ND	2.34	1.36	1.31	OHS3175U

* South pole facing symbolized surface.

HAMLIN

Hall Effect Sensors

Hamlin's Hall Effect Sensor technology offers unique design benefits. In applications where high speed switching is required, speeds of up to 10KHz can be reached. The component package is small compared with other sensing technologies and the sensors can be specified with either a digital or analogue output. *(55075 has a robust stainless steel barrel and comes with two retaining nuts.)*

Operating Temperature: -40°C ~ 100°C *(55505 Operating Temp.: -40°C ~ 125°C)*

Fig. 1

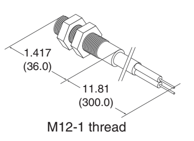

Fig. 2

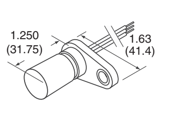

Fig. 3

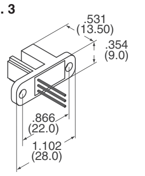

Fig. 4

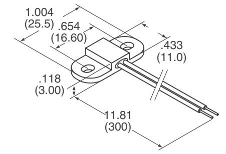

Fig. 5

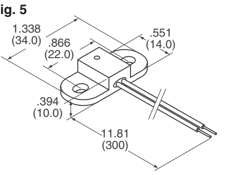

Fig. 6

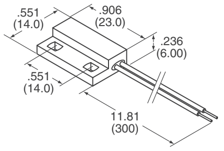

Fig.	Supply Voltage (VDC)	Output Current	Terminal Type	Features	Digi-Key Part No.	Price Each 1	10	50	Hamlin Part No.
1	4.75 ~ 25.2	20mA	24AWG Wires	Geartooth	55075-00-02-A-ND	21.20	17.74	14.46	55075-00-02-A
2	4.75 ~ 25.2	20mA	24AWG Wires	Geartooth	55505-00-02-A-ND	21.87	18.51	15.48	55505-00-02-A
3	3.8 ~ 24	20mA	PC Mount	Ferrous Vane	55085-3M-00-0-ND	8.87	7.51	6.28	55085-3M-00-0
4	3.8 ~ 24	10mA	24AWG Wires	Mini PNL MNT	55100-3H-02-A-ND	7.22	6.11	5.11	55100-3H-02-A
5	3.8 ~ 24	10mA	24AWG Wires	LED PNL MNT	55110-3H-02-A-ND	9.52	8.06	6.74	55110-3H-02-A
6	3.8 ~ 24	20mA	24AWG Wires	Flange MNT	55140-3H-02-A-ND	7.02	5.94	4.97	55140-3H-02-A

Panasonic®

Hall Effect Sensors

Lower power consumption and higher sensitivity over previous versions.

Fig. 1

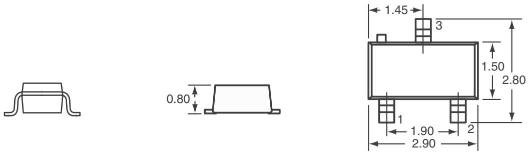

Fig. 2

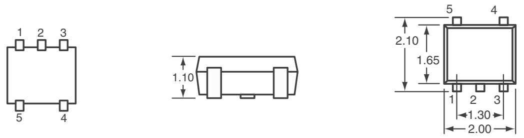

Fig.	Supply Voltage (VDC)	Output Current (mA)	Output Type	Polarity	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Panasonic Part No.
1	2.5 ~ 3.5	30	Open Drain	Unipolar	Mini-3	AN48800A-NLCT-ND	1.14	.96	.77	AN48800A-NLTR-ND	495.00/M	AN48800A-NL
	2.5 ~ 3.5	15	Open Drain	Unipolar†	Mini-3	AN48820A-NLCT-ND	1.14	.96	.77	AN48820A-NLTR-ND	495.00/M	AN48820A-NL
2	2.5 ~ 3.5	15	CMOS	Unipolar	S-Mini-5	AN48810B-NLCT-ND	1.14	.96	.77	AN48810B-NLTR-ND	495.00/M	AN48810B-NL
	2.5 ~ 3.5	15	CMOS	Unipolar†	S-Mini-5	AN48830B-NLCT-ND	1.33	1.11	.89	AN48830B-NLTR-ND	577.00/M	AN48830B-NL
	2.5 ~ 3.5	15	CMOS	Bipolar	S-Mini-5	AN48840B-NLCT-ND	1.41	1.18	.94	AN48840B-NLTR-ND	610.00/M	AN48840B-NL
	2.5 ~ 5.25	—	CMOS	Bipolar	S-Mini-5	AN48841B-NLCT-ND	1.33	1.11	.89	AN48841B-NLTR-ND	577.00/M	AN48841B-NL

† Polarity Independent

MAGNASPHERE®

Magnetic Switches

The patented, award-winning MAGNASPHERE switch represents the first break-through in two-wire magnetic switch technology since the introduction of the reed switch. Originally designed as a replacement for the reed switch used in security systems, the MAGNASPHERE switch exhibits a wide range of characteristics that make it an ideal solution for many industrial and commercial OEM applications.

Features: • Hermetically sealed contacts • Magnetic anti-tamper • High voltage EMI resistance • Wide operating temperature range • Intrinsically safe for use in volatile atmospheres • Available in form A (normally open) and form B (normally closed)

Dimensions in Inches

Fig. 1

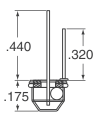

Fig. 2

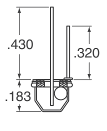

Fig. 3

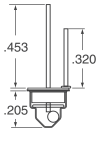

Fig. 4

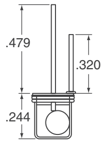

Fig.	Air Gap Distance (Inches) NEO 35 Magnet (Typ.) Open	NEO 35 Magnet (Typ.) Closed	Ferrous Metal (Typ.) Open	Ferrous Metal (Typ.) Closed	Digi-Key Part No.	Price Each 1	10	25	100	Magnasphere Part No.
					Normally Open					
1	1.313	.818	.089	.053	735-1000-ND	6.50	5.00	4.85	4.56	MG-A2-1.5-N
	.897	.652	.061	.034	735-1001-ND	6.50	5.00	4.85	4.56	MG-A2-3.0-N
	.643	.569	.048	.030	735-1002-ND	6.50	5.00	4.85	4.56	MG-A2-5.0-N
2	.713	.577	—	—	735-1003-ND	6.50	5.10	4.95	4.70	MG-A2-5.5-TW
					Normally Closed					
3	.626	.916	—	—	735-1004-ND	6.50	5.40	5.25	5.00	MG-B2-20-S
4	.904	.991	.128	.152	735-1005-ND	6.50	5.65	5.50	5.30	MG-B2-6.5-L
	.943	1.015	.116	.138	735-1006-ND	6.50	5.65	5.50	5.30	MG-B2-8.0-L
	.843	.902	.111	.131	735-1007-ND	6.50	5.65	5.50	5.30	MG-B2-10-L

Sensors Hall Effect Sensors

Fig.	Supply Voltage (VDC)	Output Current	Output Type	Terminal Type	Polarity	Digi-Key Part No.	Price Each 1	50	100	T & R Pricing 1,000‡	Honeywell Part No.
1	3.8 ~ 30	10mA	Sink	Lead Wires	—	480-1992-ND◆	5.90	3.70	3.52	—	SR16C-J6
2	4.5 ~ 24	40mA	Sink	Lead Wires	—	480-1990-ND◆	24.75	17.95	17.33	—	4AV16F
3	3.8 ~ 30	20mA	Sink	Lead Wires	Unipolar	480-1991-ND◆	6.37	4.00	3.80	—	SR13C-A1
4	3.8 ~ 30	40mA	Sink	Lead Wires	—	480-1993-ND◆	7.99	5.12	4.80	—	SR17C-J6
5	3.8 ~ 30	20mA	Sink	SOT89	Bipolar	480-2011-1-ND◆	3.17	2.72	2.27	695.00	SS511AT
	3.8 ~ 30	20mA	Sink		Unipolar	480-2012-1-ND◆	1.41	1.22	1.01	586.00	SS541AT
	3.8 ~ 30	20mA	Sink		Bipolar Latch	480-2013-1-ND◆	3.17	2.72	2.27	695.00	SS561AT
	4.5 ~ 24	20mA	Sink		Bipolar	480-2010-1-ND◆	2.61	2.24	1.87	1080.00	SS51T
6	4.5 ~ 24	40mA	Sink	Lead Wires	—	480-2021-ND◆	22.29	16.17	15.61	—	1GT101DC
7	8 ~ 16	10mA	Source	PC Board	Ratiometric Linear	480-2007-ND◆	12.29	8.36	7.92	—	91SS12-2
	6.6 ~ 12.6	1mA	Sink/Source		Ratiometric	480-2008-ND◆	16.72	11.40	10.83	—	SS94A1
	6.6 ~ 12.6	1mA	Sink/Source		Ratiometric	480-2009-ND◆	17.57	12.56	11.93	—	SS94A1F
8	4.5 ~ 24	20mA	Sink	PC Board	Bipolar	480-1998-ND	1.12	.96	.84	—	SS40A
	4.5 ~ 24	20mA	Sink		Bipolar	480-1999-ND◆	1.35	.68	.63	—	SS41
	3.8 ~ 30	20mA	Sink		Bipolar	480-2000-ND◆	2.67	1.51	1.47	—	SS411A
	3.8 ~ 30	20mA	Sink		Unipolar	480-2001-ND◆	1.62	.84	.77	—	SS441A
	3.8 ~ 30	20mA	Sink		Unipolar	480-2002-ND◆	1.40	.72	.67	—	SS443A
	3.8 ~ 30	20mA	Sink	PC Board	Bipolar Latch	480-2003-ND◆	1.62	.84	.77	—	SS461A
	3.8 ~ 30	20mA	Sink		Bipolar Latch	480-2004-ND◆	1.44	.75	.69	—	SS466A
	4.5 ~ 10.5	1.5mA	Sink/Source		Ratiometric	480-2005-ND◆	2.10	1.12	1.07	—	SS495A
	3 ~ 6.5	1.5mA	Source		Analog	480-2006-ND◆	1.70	.90	.83	—	SS49E
9	4.5 ~ 24	20mA	Sink	Lead Wires	Unipolar	480-2014-ND◆	19.03	13.60	12.92	—	103SR13A-1

◆ ***RoHS Compliant*** ‡ For Tape and Reel part number, change 1-ND to 2-ND.

Temperature — *RoHS Compliant*

Fig.	Supply Voltage	Supply Current	Temperature Sensing Range	Length (Inch)	Termination	Packaging Type	Digi-Key Part No.	Price Each 1	50	100	Honeywell Part No.
8	10.0 VDC	1mA	-40°C ~ 150°C	—	SIP	Plastic Case	480-2017-ND	4.34	2.55	2.45	TD5A
9	10.0 VDC	1mA	—	1.5	Lead Wires	3/8-24 UNF-2A	480-2016-ND	23.38	16.96	16.37	TD4A

Magnet — *RoHS Compliant*

Fig.	Outside Diameter mm (Inch)	Thread Dim.	Length Inch (mm)	Digi-Key Part No.	Price Each 1	50	100	Honeywell Part No.
10	7.9 (0.31)	8-32	0.67 (17.0)	480-2015-ND	9.78	6.32	6.12	102MG11

Current Sensor — *RoHS Compliant*

Fig.	Supply Voltage (VDC)	Output Current	Output Type	Terminal Type	Polarity	Sensor Type	Current Type	Response Time	Digi-Key Part No.	Price Each 1	50	100	Honeywell Part No.
11	5.4 ~ 13.2	—	Voltage	PCB	—	Open Loop Linear	AC or DC	3µs	480-1994-ND	16.91	11.53	10.96	CSLA2CD
12	4.5 ~ 10.5	1.5mA	Voltage	PCB	Positive	Open Loop	DC	50µs	480-1995-ND	8.88	5.92	5.55	CSLH3A45
13	4.75 ~ 5.25	12.5mA	Current	PCB	—	Closed Loop Linear	AC or DC	≤0.2µs	480-1996-ND	20.83	14.88	14.14	CSNX25

Switch — *RoHS Compliant*

Fig.	Supply Voltage (VDC)	Output Current	Output Type	Transistor State	Digi-Key Part No.	Price Each 1	50	100	Honeywell Part No.
14	4.5 ~ 24.0	10mA	Sink	Normally Off	480-2018-ND	8.50	5.67	5.32	VX10

MR — *RoHS Compliant*

Fig.	Supply Voltage (VDC)	Output Current	Output Type	Polarity	Operate Point	Release Point @25°C	Digi-Key Part No.	Price Each 1	50	100	Honeywell Part No.
15	3.8 ~ 30.0	20mA	Sink	Omnipolar	1.5 mT	1.1 mT	480-1997-ND	3.34	1.93	1.82	2SS52M

Oxygen Sensors and Oxygen Sensor Interface Boards — *RoHS Compliant*

Fig.	Supply Voltage	Oxygen Sensors Supply Current	Oxygen Range	Gas Flow Rate	Output Signal	Digi-Key Part No.	Price Each 1	50	Honeywell Part No.
Oxygen Sensors									
17	—	—	2 ~ 3000 mbar	0 ~ 10 m/sec.	—	480-2088-ND	166.10	132.47	GMS10RVS
16			2 ~ 3000 mbar	0 ~ 20 m/sec.	—	480-2089-ND	265.40	203.15	KGZ-10SP
18			2 ~ 3000 mbar	0 ~ 20 m/sec.	—	480-2090-ND	278.79	220.75	KGZ-10
19	24.0 VDC ±5%	500mA	0 ~ 100%	0 ~ 10 m/sec.	1 ~ 10 Volt	480-2092-ND	1511.50	1322.56	MF010-0-LC2
			0 ~ 25%	0 ~ 10 m/sec.	4 ~ 20mA	480-2093-ND	1511.50	1322.56	MF010-0-LC3
			0 ~ 100%	0 ~ 10 m/sec.	4 ~ 20mA	480-2094-ND	1511.50	1322.56	MF010-0-LC4
Oxygen Sensor Interface Boards									
—	24.0 VDC ±20%	—	0 ~ 25%	—	0 ~ 10 Volt	480-2095-ND	468.57	390.48	DE800.V.1
			0 ~ 100%	—	0 ~ 10 Volt	480-2096-ND	754.91	650.79	DE800.V.2
			0 ~ 25%	—	4 ~ 20mA	480-2097-ND	468.58	390.48	DE800.A.1
			0 ~ 100%	—	4 ~ 20mA	480-2098-ND	468.58	390.48	DE800.A.2
—	±15.0 VDC ±10%	—	0 ~ 25%	—	0 ~ 10 Volt	480-2099-ND	304.32	242.51	ELECDIT.V.1
			0 ~ 100%	—	0 ~ 10 Volt	480-2100-ND	348.02	280.67	ELECDIT.V.2
—	24.0 VDC ±20%	—	0 ~ 25%	—	0 ~ 10 Volt	480-2103-ND	354.98	286.28	OXYMAC50.V.1
			0 ~ 100%	—	0 ~ 10 Volt	480-2104-ND	354.98	286.28	OXYMAC50.V.2
			0 ~ 25%	—	4 ~ 20mA	480-2105-ND	354.98	286.28	OXYMAC50.A.1
			0 ~ 100%	—	4 ~ 20mA	480-2106-ND	354.98	286.28	OXYMAC50.A.2

Fig. 1

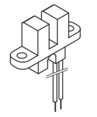

Fig. 2

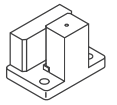

Fig. 3

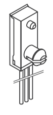

Fig. 4

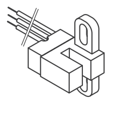

Fig. 5

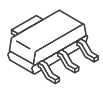

Fig. 6

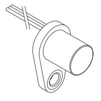

Fig. 7

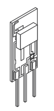

Fig. 8

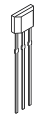

Fig. 9

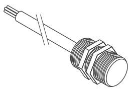

Fig. 10

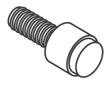

Fig. 11

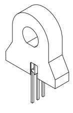

Fig. 12

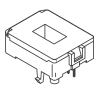

Fig. 13

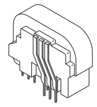

Fig. 14

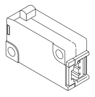

Fig. 15

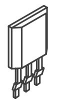

Fig. 16

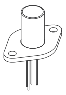

Fig. 17

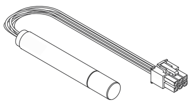

Fig. 18

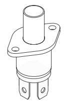

Fig. 19

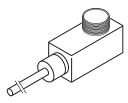

Liquid Level Sensors

Fig.	Operating Temperature	Description	Level Type	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
1	-25°C ~ 80°C -40°C ~ 125°C	Screw In, M12 Thread, Plastic	1	480-2022-ND 480-2026-ND	23.75 34.32	19.36 28.17	16.63 24.65	LLE101000 LLE101101
2	-25°C ~ 80°C -40°C ~ 125°C	Screw In, M12 Thread, Plastic	2	480-2023-ND 480-2027-ND	23.75 34.32	19.36 28.17	16.63 24.65	LLE102000 LLE102101
3	-25°C ~ 80°C -40°C ~ 125°C	Screw In, M12 Thread, Plastic	3	480-2024-ND 480-2028-ND	23.75 34.32	19.36 28.17	16.63 24.65	LLE103000 LLE103101
4	-25°C ~ 80 °C -40°C ~ 125°C	Push In, Plastic	5	480-2025-ND 480-2029-ND	23.75 34.32	19.36 28.17	16.63 24.65	LLE105000 LLE105101
5	-40°C ~ 125°C -40°C ~ 125°C	Industrial High Air, Stainless Industrial Low Air, Stainless	5	480-2030-ND 480-2031-ND	127.04 127.04	108.36 108.36	97.15 97.15	LLN8651721 LLN865172-2

Fig. 1

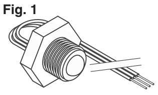

Fig. 2

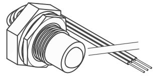

Fig. 3

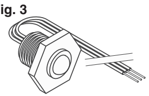

Fig. 4

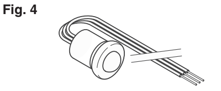

Fig. 5

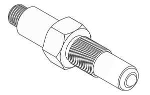

VRS and Hall Effect Speed Sensors

VRS Sensors are for high speed sensing applications where higher output voltages are needed. VRS Sensors perform best at low to medium speeds with medium to high impedance loads.

Hall Effect Speed Sensors are designed for use with a ferromagnetic gear or pole wheel to generate impulse frequencies proportional to the speed of the target.

Fig. 1

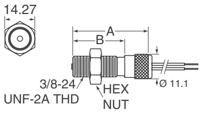

Fig. 2

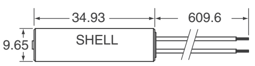

Fig. 3

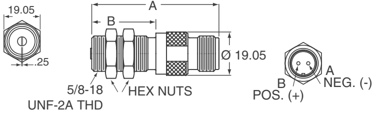

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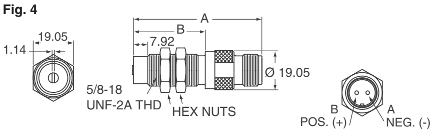

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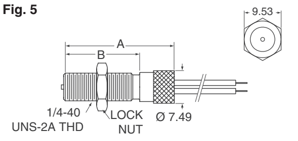

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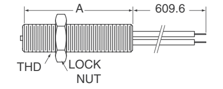

3050S10 THD = 1/4-40 UNS-2A
3080 THD = 10-32 UNF-2A
3030S20 THD = 5/8-18 UNF-2A

Fig. 7

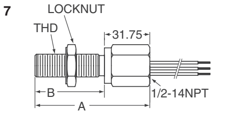

3070 THD = 3/4-20 UNEF-2A
3090 THD = 5/8-18 UNF-2A

Fig. 8

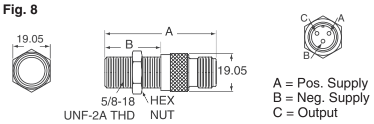

A = Pos. Supply
B = Neg. Supply
C = Output

Fig. 9

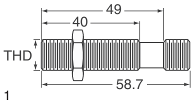

G01 THD = M12 x 1
G02 THD = 5/8-18 UNF-2A

Fig. 10

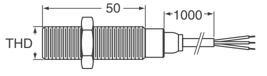

G01 THD = M12 x 1
G02 THD = 5/8-18 UNF-2A

Fig. 11

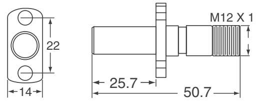

Fig. 12

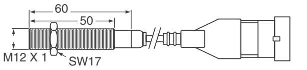

Fig. 13

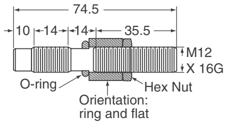

Fig. 14

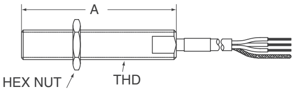

LCZ260 THD = 3/8-24UNF-2A
LCZ460 THD = 5/8-18UNF-2A

Fig. 15

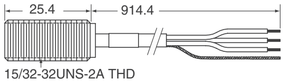

Fig. 16

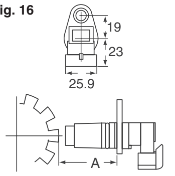

Fig. 17

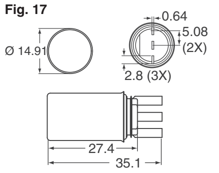

Fig. 18

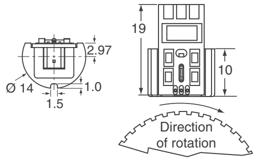

Fig. 19

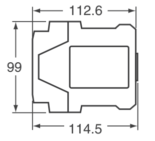

Fig. 20

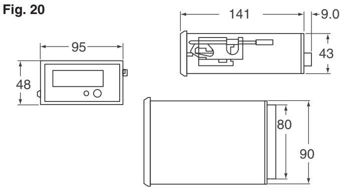

Fig. 21

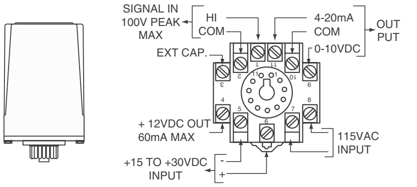

VRS Sensors

Fig.	Dim. (mm)		Output Voltage	Coil Res. (Ω)	Inductance (mH)	Digi-Key Part No.	Price Each			Honeywell Sensing Part No.
	A	B					1	50	100	
1	31.75	20.62	55	330	75	480-2782-ND	67.86	52.78	49.95	.3025
	100	88.9	55	330	75	480-2783-ND	100.50	78.43	75.52	.3025A35
2	—	—	55	390	75	480-2784-ND	71.38	56.09	54.05	.3025SS13
3	57.99	29.87	40	200	85	480-2787-ND	73.54	57.79	55.69	.3039AN
	57.99	29.87	34	85	25	480-2785-ND	73.54	57.79	55.69	.3009AN
	57.99	29.87	170	1200	450	480-2786-ND	74.62	58.64	56.51	.3029AN
	57.99	29.87	190	1200	450	480-2776-ND	64.52	50.19	47.50	3030AN
	91.62	63.5	190	1200	450	480-2777-ND	83.28	65.44	63.06	.3030AN25
	104.32	76.20	190	1200	450	480-2778-ND	95.15	74.26	71.51	.3030AN30
	129.72	101.6	190	1200	450	480-2779-ND	125.02	97.45	95.61	.3030AN40
	155.12	127.	190	1200	450	480-2780-ND	148.13	115.46	111.11	.3030AN50
4	64.29	36.5	190	1200	450	480-2775-ND	74.62	58.64	56.51	.3030A
	64.29	36.5	80	85	25	480-2788-ND	86.60	67.58	65.08	.3044A
	64.29	36.5	300	1200	450	480-2789-ND	86.60	67.58	65.08	.3045A
	64.29	36.5	65	200	85	480-2790-ND	86.60	67.58	65.08	.3046A
5	25.4	17.45	12	190	16	480-2791-ND	103.71	80.93	77.93	.3050
	39.67	31.75	12	190	16	480-2792-ND	127.12	99.09	97.22	.3050A13
	58.72	50.8	12	190	16	480-2793-ND	172.26	137.39	132.10	.3050A20
6	25.4	—	12	190	16	480-2794-ND	100.50	78.43	75.52	.3050S10
	12.7	—	8	155	14	480-2795-ND	167.11	135.78	130.56	.3080
	50.8	—	190	1200	450	480-2781-ND	71.19	55.38	52.41	.3030S20
7	79.38	47.63	60	280	115	480-2796-ND	216.58	172.74	166.09	.3070A
	120.65	88.9	60	280	115	480-2797-ND	256.10	204.08	200.08	.3070A35
	79.38	47.63	60	280	115	480-2798-ND	183.34	146.22	140.60	.3090A
	120.65	88.9	60	280	115	480-2799-ND	210.53	167.92	161.46	.3090A35
8	57.73	29.97	175	1200	450	480-2800-ND	103.71	80.93	77.93	.MA230SAN
	103.96	76.2	175	1200	450	480-2801-ND	150.24	117.10	112.68	.MA233SAN
	57.73	29.97	60	200	85	480-2802-ND	103.71	80.93	77.93	.MA240SAN
	103.96	76.2	60	200	85	480-2803-ND	150.24	117.10	112.68	.MA243SAN
	103.96	76.2	60	200	85	480-2804-ND	188.37	150.24	144.46	.MA243HT

Hall Effect Speed Sensors

Fig.	Supply Current (mA)	Output	Frequency (kHz)	Digi-Key Part No.	Price Each			Honeywell Sensing Part No.
					1	50	100	
9	25	Square Wave	15	480-2810-ND◆	63.72	49.56	46.91	SNDJ-H3C-G01
				480-2812-ND◆	70.35	55.28	53.27	SNDJ-H3C-G02
10	25	Square Wave	15	480-2811-ND◆	68.04	52.92	50.09	SNDJ-H3L-G01
				480-2813-ND◆	71.40	56.10	54.06	SNDJ-H3L-G02
11	32	Square Wave	25	480-2821-ND◆	79.80	62.70	60.42	SNDJ-D3C-G01
12	32	Square Wave	25	480-2822-ND◆	79.80	62.70	60.42	SNDJ-D3P-G01
13	32	Square Wave	15	480-2823-ND◆	137.70	107.33	103.28	SNDJ-T4C-G01

Fig.	Supply Current (mA)	Output Sinking (mA)	Dim. A (mm)	Rise/Fall Time (µs)	Digi-Key Part No.	Price Each			Honeywell Sensing Part No.
						1	50	100	
8	24	80	76.2	1 / 1	480-2805-ND	172.26	137.39	132.10	.58426HV
					480-2806-ND	172.26	137.39	132.10	.58426LV
14	20	20	20	4 / 4	480-2807-ND	86.60	67.58	65.08	.LCZ260
					480-2808-ND	86.60	67.58	65.08	.LCZ460
15	6	30	—	.07 / .07	480-2809-ND	54.88	41.53	40.05	.ZH10
16	40	15	40	30 / 5	480-2814-ND◆	41.90	30.87	30.32	GTN1A111
			53	30 / 5	480-2815-ND◆	42.50	31.32	30.76	GTN1A112
			77.5	30 / 5	480-2816-ND◆	43.69	32.20	31.63	GTN1A113
			83.5	30 / 5	480-2817-ND◆	44.29	32.64	32.05	GTN1A114
			95	30 / 5	480-2818-ND◆	44.89	33.08	32.49	GTN1A115
	40	15	100	30 / 5	480-2819-ND◆	44.89	33.08	32.49	GTN1A116
			140	30 / 5	480-2820-ND◆	39.90	29.40	28.88	GTN1A211
17	20	40	—	15 / 1	480-2824-5-ND	16.88	11.01	10.33	1GP4001
	20	40	—	2 / 1	480-2825-5-ND	7.39	4.82	4.53	1GP4004
	20	40	—	15 / 1	480-2826-5-ND	7.39	4.82	4.53	1GP7001
	20	40	—	15 / 1	480-2827-5-ND	7.71	4.94	4.63	1GP5005
	21	—	—	27 / 1	480-2829-5-ND	15.00	9.60	9.00	1GQ8001
18	20	10	—	18 / 1	480-2828-5-ND	6.50	4.24	3.98	3GC401

◆ *RoHS Compliant*

Tachometers and Converter

Fig.	Description	Digi-Key Part No.	Price Each			Honeywell Sensing Part No.
			1	50	100	
19	Din-Rail Mount Tachometer with Relay, RS-232 0/4 ~ 20mA Output	480-2831-ND◆	240.00	191.25	187.50	SNDJ-CNT-G01
	Din-Rail Mount Tachometer with Relay, RS-232 0/2 ~ 10V Output	480-2832-ND◆	240.00	191.25	187.50	SNDJ-CNT-G02
20	Din-Rail Mount Tachometer with Relay, RS-232 0/4 ~ 20mA Output, with Display	480-2833-ND◆	367.35	296.25	—	SNDJ-CNT-G03
	Din-Rail Mount Tachometer with Relay, RS-232 0/2 ~ 10V Output, with Display	480-2834-ND◆	367.35	296.25	—	SNDJ-CNT-G04
21	Frequency to DC Converter	480-2830-ND	261.04	208.02	203.94	.FDC
—	USB Programming Cable	480-2835-ND◆	54.00	42.00	40.50	SNDJ-CBL-G01

◆ *RoHS Compliant*

Panasonic® Hall Effect Sensor ICs

Panasonic's Hall IC is a combination of a Hall element, amplifier, Schmidt circuit, and stabilized power supply/temperature compensator integrated on an identical chip by using the IC technology. It amplifies Hall element output at the amplifier, converts into a digital signal through the Schmidt circuit, and drives the TTL or MOS IC directly. **Features:** • Stable temperature characteristics due to the additional temperature compensator • TTL and MOS ICs directly driveable by output • Semi-permanent service life due to no contact parts • Small change of the operating flux density against mechanical stress • Provided with the Output Pull-up Resistors (typical 27kΩ or Open Collector Output; *see footnote below*) • Operating Temperature: -40°C ~ 100°C • Supply Current Maximum: 6mA • Output Circuit Maximum: 20mA **Applications:** • Speed Sensors • Position Sensors • Rotation Sensors • Keyboard Switches • Microswitches

Fig. 1

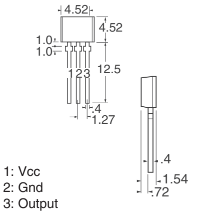

Fig. 2

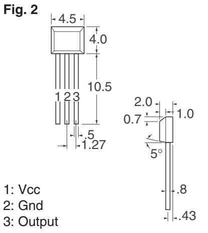

Fig. 3

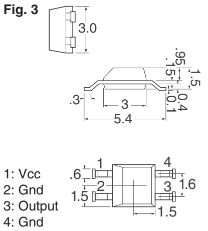

Fig.	Supply Voltage Range (V)	Operating** Flux Density (Gauss) (L-H)	(H-L)	Output* Type	Operating† Type	Pkg.	Digi-Key Part No.	Price Each 1	10	100
1	4.5 ~ 16	-175	175	OC	Bidirectional	3-Sip	DN6849SE-ND	1.51	1.22	.91
2	4.5 ~ 16	-120	120	Pull-up	Bidirectional	3-Sip	DN8897-ND◆	1.69	1.36	1.02
3	4.5 ~ 16	5	220	OC	Unidirectional	SOH-4D	DN6848S-E1VCT-ND◆	.82	.69	.55
		5	220		Unidirectional	SOH-4D	DN6848S-E1VTR-ND◆	362.00/1,000		
		-175	175		Bidirectional	SOH-4D	DN6849S-ND	1.69	1.36	1.02

* Output Type: *Pull-up* = 27K Internal; *OC* = Open Collector. ** To convert Gauss to millitesla, divide by 10
† *Unidirectional* is only sensitive to either north or southside of magnetic; *Bidirectional* is sensitive to an alternating magnetic fields of both north and south sides. ◆ ***RoHS Compliant***

Infrared Photosensors

RoHS Compliant Parts Available
(parts other than indicated may be available as RoHS compliant)

Fig. 1

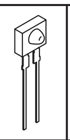

Fig. 2

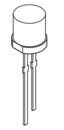

Fig. 3

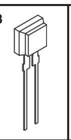

Fig. 4

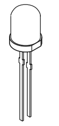

Fig. 5

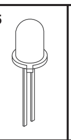

Fig. 6

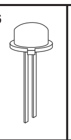

Fig. 7

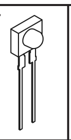

Fig. 8

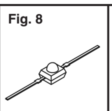

Fig. 9

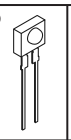

Fig. 10

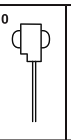

Fig. 11

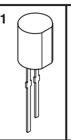

Fig. 12

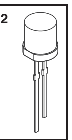

Fig. 13

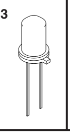

Fig. 14

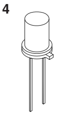

Fig. 15

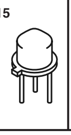

Fig. 16

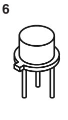

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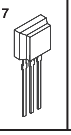

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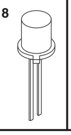

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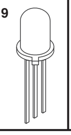

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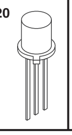

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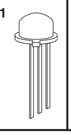

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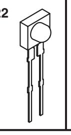

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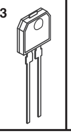

Fig. 24

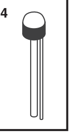

Infrared Light Emitting Diode

Fig.	Style/ Package	Pulse Forward Current (A)	Optical Power Output	Peak Emission Wave-length	Beam Angle	Digi-Key Part No.	Pricing 1	10	100	Panasonic Part No.
1	Side View	1	4.6mW	950nm	17°	LN54PA-ND◆	1.00	8.37	66.96	LN54
2	Top View	0.2	2.5mW	680nm	30°	LNA4501FV-ND◆	1.28	10.26	76.92	LNA4501FV
	Top View	1.5	7mW	950nm	45°	LN64PA-ND◆	.91	7.56	60.48	LN64
3	Side View	2	12mW	900nm	115°	LN175PA-ND◆	1.81	14.47	108.54	LN175
	Side View	1.5	3-6mW	940nm	80°	LNA2603F-ND◆	1.27	10.12	75.90	LNA2603F
4	T-1	1	3.5mW/sr	940nm	15°	LN69-ND◆	.46	3.46	25.96	LN69
	T-1	1	6mW/sr	940nm	15°	LNA2801L-ND◆	.67	5.03	37.73	LNA2801L
	T-1	1	2.5-5mW	950nm	20°	LNA2802L-ND◆	.45	3.61	27.08	LNA2802L
	T-1 3/4	1	10mW	860nm	20°	LN77L-ND◆	1.15	8.65	53.85	LN77L
	T-1 3/4	1	12mW/sr	860nm	22°	LNA4801L-ND◆	1.28	10.26	76.92	LNA4801L
	T-1 3/4	1.5	9mW/sr	950nm	20°	LNA2902L-ND◆	.46	3.46	25.96	LNA2902L
	T-1 3/4	1.5	9mW/sr	950nm	25°	LNA2903L-ND◆	.45	3.61	27.08	LNA2903L
	T-1 3/4	1.5	10mW/sr	950nm	20°	LNA2904L-ND◆	.89	7.42	59.33	LNA2904L
5	TO-18	2	3-6mW	950nm	8°	LN51L-ND◆	3.63	29.02	225.70	LN51L
	TO-18	2	5mW	950nm	8°	LNA2402L-ND◆	2.24	17.95	134.62	LNA2402L
6	TO-18 Small	0.2	1.5mW	680nm	80°	LNA4402L-ND◆	1.60	12.82	96.15	LNA4402L
	TO-18 Small	1.5	5-10mW	950nm	90°	LN152-ND◆	2.13	17.74	141.91	LN152
	TO-18 Small	2	3.5-6mW	950nm	100°	LN52-ND◆	3.05	24.38	189.59	LN52
7	Side View	1	1.8-3.5mW	950nm	35°	LN55-ND	.78	6.53	52.26	LN55
	Side View	1.5	4.3-5.5mW	950nm	35°	LN65-ND◆	1.29	10.34	77.52	LN65
8	Axial	1	3-4.5mW	950nm	18°	LNA2W01L-ND◆	1.35	11.29	90.28	LNA2W01L
9	Side View	1	6mW	880nm	25°	LN75X-ND◆	1.28	10.26	76.92	LN75X
	Side View	1	6-10mW	880nm	40°	LN78-ND◆	4.97	39.77	309.30	LN78
	Side View	1	1.8-3.5mW	950nm	35°	LN58-ND◆	.97	8.06	64.49	LN58
10	Side View x2	1	1.2mW/sr	940nm	23°	LNA2701L-ND	1.32	10.96	87.70	LNA2701L
	Side View x2	1	1.8mW	950nm	23°	LN59-ND	1.10	9.13	73.01	LN59
	Side View x2	1	1.8mW	940nm	23°	LNA2702L-ND*◆	.62	4.62	34.62	LNA2702L

◆ ***RoHS Compliant*** * Long Leads

NPN Photo Transistor

Fig.	Style/ Package	V_{CEO} (V)	I_c (mA)	Peak Sensitivity Wave-length	tr/tf (µs)	Digi-Key Part No.	Pricing 1	10	100	Panasonic Part No.
1	Side View	20	20	800nm	4	PNZ154-ND◆	1.39	11.61	92.88	PNZ154
3	Side View	20	10	800nm	4	PNZ155-ND	1.25	10.43	83.47	PNZ155
4	T-1	30	20	800nm	4	PNA1801LS-ND◆	.56	4.23	31.73	PNA1801LS
	T-1	30	20	850nm	4	PNA1801L00NC-ND◆	.56	4.23	31.73	PNA1801L00NC
4	T-1	30	20	850nm	4	PNA1801LS0NC-ND◆	.56	4.23	31.73	PNA1801LS0NC
5	TO-18	30	50	800nm	3	PNA1401L-ND◆	3.56	28.46	221.32	PNA1401L
	TO-18	20	30	900nm	5/6	PNZ107-ND◆	2.24	17.95	134.62	PNZ107
7	Side View	20	30	850nm	100	PNA2602M-ND‡	1.14	9.49	75.88	PNA2602M
	Side View	20	20	800nm	4-10	PNZ150-ND	1.06	8.85	70.82	PNZ150
8	Axial	20	30	800nm	200	PNA2W01M-ND‡◆	1.76	14.64	117.10	PNA2W01M
	Axial	20	20	800nm	2.5/3.5	PNZ12700S-ND◆	1.20	9.99	79.92	PNZ12700S
	Axial	20	20	800nm	3-10	PNZ14700R-ND◆	.96	8.01	64.10	PNZ14700R
	Axial	20	20	800nm	3-10	PNZ14700S-ND◆	.96	8.01	64.10	PNZ14700S
	Axial	20	20	800nm	3-10	PNZ147-ND◆	1.58	12.65	94.85	PNZ147
9	Side View	20	3	800nm	100	PNA2603L-ND‡	1.14	9.49	75.88	PNA2603L
17	Side View	20	10	900nm	8	PNA1605F-ND◆	1.51	12.10	90.72	PNA1605F
18	TO-18 Flat	30	50	800nm	3	PNA1401LF-ND◆	3.56	28.46	221.32	PNA1401LF
19	TO-18	40†	50	800nm	3	PNZ102-ND◆	3.56	28.46	221.32	PNZ102
	TO-18	30†	30	900nm	5/6	PNZ108-ND◆	3.56	28.46	221.32	PNZ108
	TO-18	30†	30	900nm	5/6	PNZ109L-ND	3.56	28.46	221.32	PNZ109L
20	TO-18 Flat	30†	30	900nm	8/9	PNZ109F-ND◆	3.56	28.46	221.32	PNZ109F
21	TO-18 Small	30†	20	900nm	5/6	PNZ108CL-ND◆	2.99	23.90	185.91	PNZ108CL
	TO-18 Small	20	20	900nm	5/6	PNZ108CLR-ND◆	1.60	12.82	96.15	PNZ108CLR
	TO-18 Small	20	20	900nm	5/6	PNZ108CLS-ND◆	1.60	12.82	96.15	PNZ108CLS
	TO-18 Small	30†	20	900nm	5/6	PNZ109CL-ND◆	2.99	23.90	185.91	PNZ109CL
22	Side View	20	20	800nm	4	PNA1608L-ND	1.06	8.85	70.82	PNA1608L
23	Side View	20	20	850nm	4	PNA1601M-ND	.81	6.76	54.05	PNA1601M
24	T-1	20	10	800nm	1/1.3	PNZ121S0R-ND◆	1.20	10.03	80.27	PNZ121S0R

◆ ***RoHS Compliant*** † V_{CBO} *(This device has signal mixing capability using the base pin.)* ‡ Darlington

Pin Photo Diode

Fig.	Style/ Package	V_R (V)	Peak Sensitivity Wavelength	tr/tf (ns)	Beam Angle	Digi-Key Part No.	Pricing 1	10	100	Panasonic Part No.
3	Side View	30	850nm	2	70°	PNZ335-ND◆	1.26	10.12	75.88	PNZ335
6	TO-18 Small	30	850nm	2	70°	PNZ330CL-ND	2.99	23.90	185.91	PNZ330CL
11	Side View	30	900nm	50	70°	PNZ323-ND◆	1.38	11.54	92.31	PNZ323
	Side View	30	900nm	50	70°	PNZ327-ND◆	1.38	11.54	92.31	PNZ327
	Side View	30	960nm	50	70°	PNZ323B-ND◆	.91	7.56	60.48	PNZ323B
12	Top View	50	850nm	2	70°	PNZ334-ND◆	1.46	12.15	97.20	PNZ334
13	TO-18	50	800nm	1	10°	PNZ300-ND	6.14	49.10	414.27	PNZ300
14	TO-18	50	800nm	1	40°	PNZ300F-ND	6.14	49.10	414.27	PNZ300F
15	TO-18	30	900nm	2	70°	PNZ331CL-ND	3.66	29.31	227.95	PNZ331CL
16	TO-18	30	900nm	—	40°	PNZ331F-ND	7.11	56.85	479.68	PNZ331F

◆ ***RoHS Compliant***

IrDA Transceiver Modules

Digi-Reel® RoHS COMPLIANT

V_{CC} Maximum (V)	IrDA Maximum (kbps)	Pin Count	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
3.3	115.2	7-Pin + 1 Shield	CND0204ACT-ND	1.60	1.29	.97	CND0204ATR-ND	2,500	820.00/M	CND0204A
4.5	115.2	7-Pin + 1 Shield	CND0215ACT-ND	1.60	1.29	.97	CND0215ATR-ND	2,500	820.00/M	CND0215A
3.3	115.2	7-Pin + 2 Shield	CND0208ACT-ND	1.60	1.29	.97	CND0208ATR-ND	2,000	833.00/M	CND0208A
3.3	115.2	7-Pin + 2 Shield	CND0214ACT-ND	1.60	1.29	.97	CND0214ATR-ND	2,000	833.00/M	CND0214A
3.3	115.2	7-Pin + 2 Shield	CND0209ACT-ND	1.60	1.29	.97	CND0209ATR-ND	2,000	833.00/M	CND0209A
4.5	115.2	7-Pin + 2 Shield	CND0216ACT-ND	1.60	1.29	.97	CND0216ATR-ND	2,000	833.00/M	CND0216A

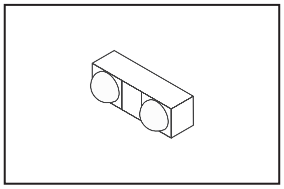

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic® Reflective Photosensors

Reflective Photosensors consist of a high efficiency GaAs infrared light emitting diode which is integrated with a high sensitivity phototransistor in a single resin package.

Fig.	Rank	I_C (µA)	Typ. ton/toff (µsec.)	Input V_R (V)	Input I_F (mA)	Output I_C (mA)	Output V_{CEO} (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing	Panasonic Part No.
1	L	23~90	30/40	6	50	20	35	CNB10010LLCT-ND◆	.97	.74	.55	.35	CNB10010LLTR-ND◆	1,000	324.00	CNB10010LL
	R	41~90	30/40	6	50	20	35	CNB10010RLCT-ND◆	.99	.83	.66	.46	CNB10010RLTR-ND◆	1,000	437.00	CNB10010RL
	W	23~160	30/40	6	50	20	35	CNB10010WLCT-ND◆	.92	.70	.52	.33	CNB10010WLTR-ND◆	1,000	307.00	CNB10010WL
	H	41~160	30/40	6	50	20	35	CNB10010HLCT-ND◆	.97	.74	.55	.35	CNB10010HLTR-ND◆	1,000	324.00	CNB10010HL
	S	74~160	30/40	6	50	20	35	CNB10010SLCT-ND◆	.77	.65	.52	.36	CNB10010SLTR-ND◆	1,000	341.00	CNB10010SL
	R	41~90	30/40	6	50	20	35	CNB10020RLCT-ND◆	.77	.65	.52	.36	CNB10020RLTR-ND◆	1,000	341.00	CNB10020RL
	—	50~243	40/50	6	30	20	35	CNB10112CT-ND◆	.77	.65	.52	.36	CNB10112TR-ND◆	3,000	333.00/M	CNB10112
2	R	180~440	20/20	3	50	20	30	CNB13020R-ND	.95	.72	.54	.34	—	—	—	CNB13020R
3	—	460~12,000	150/150	3	50	30	20	CNB2301-ND◆	.77	.65	.52	.36	—	—	—	CNB2301
	R	1,300~4,950	150/150	3	50	30	20	CNB23010R-ND◆	.81	.68	.54	.38	—	—	—	CNB23010R
	R	1,300~4,950	150/150	3	50	30	20	CNB23010R0LF-ND◆	.85	.71	.57	.40	—	—	—	CNB23010R0LF
	S	360~880	20/20	3	50	20	30	CNB13020S-ND◆	.77	.58	.44	.27	—	—	—	CNB13020S
	R	180~440	20/20	3	50	20	30	CNB13020R0LF-ND◆	.82	.62	.47	.29	—	—	—	CNB13020R0LF
	S	360~880	20/20	3	50	20	30	CNB13020S0LF-ND◆	.82	.62	.47	.29	—	—	—	CNB13020S0LF
4	—	800~5,200	20/20	3	50	20	30	CNB1301-ND◆	1.28	1.03	.77	.70	—	—	—	CNB1301
5	—	100~1,500	6/6	3	50	20	30	CNB1304H-ND◆	2.28	1.83	1.37	1.23	—	—	—	CNB1304H
6	—	100~1,200	6/6	3	50	20	30	CNZ2153-ND◆	2.88	2.31	1.80	1.67	—	—	—	CNZ2153

◆ ***RoHS Compliant***

Fig. 1

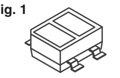

Fig. 2

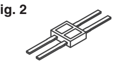

Fig. 3

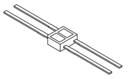

Fig. 4

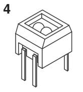

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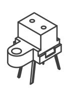

Fig. 6

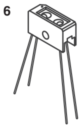

Bipolar Integrated Circuit with Photodetection Function

Fig. 1

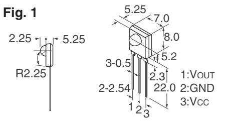

Fig. 2

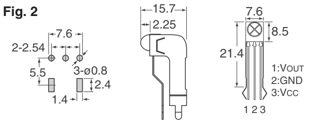

Fig. 3

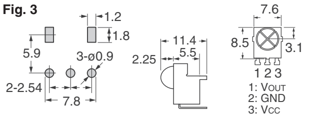

Fig. 4

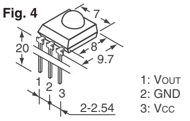

Fig. 5

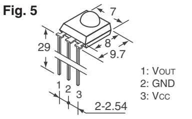

Fig. 6

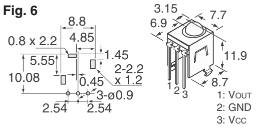

Fig. 7

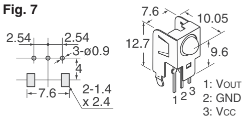

Fig. 8

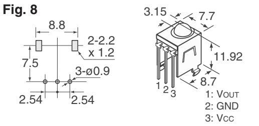

Fig. 9

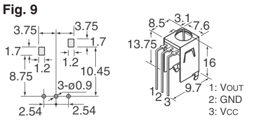

Fig. 10

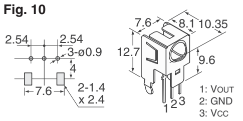

Fig. 11

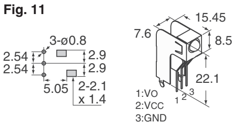

Fig. 12 ***NEW!***

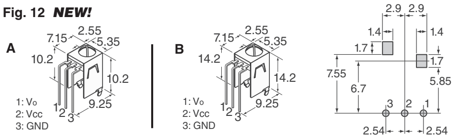

Fig. 13 ***NEW!***

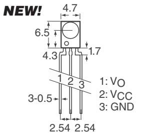

Fig. 14

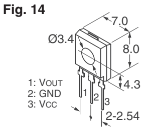

Fig. 15

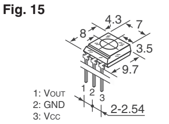

FEATURES:

PNA46xxM Series: • Designed for infrared remote control • Extension distance is 8M or more • External parts are not required • Lens resin filters visible light for better performance • Available with shielding brackets for increased range • 5V operation voltage

PNA47xxM Series: • Designed for infrared remote control • Extension distance is 7M or more • External parts are not required • Lens resin filters visible light for better performance • Available with shielding brackets for increased range • 3.3V operation voltage

PNA48xxM Series: • Designed for infrared remote control • Extension distance is 11M or more • External parts are not required • Lens resin filters visible light for better performance • Available with shielding brackets for increased range • 3.3V operation voltage • Smaller size then PNA47xxM Series

PNA4603H Series: (For brightness control systems.) • Wavelength characteristics close to human visual sensitivity • External parts not required • Good output voltage linearity with respect to incident illuminance

PNA4603H Series Main Characteristics

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Supply Voltage	V_{CC}	—	4.5	5.0	5.5	V
Current Consumption	I_{CC}	V_{CC} = 5.25V	0.5	1.0	1.5	mA
Output Voltage	V_{OFF}	L = 0 lx, V_{CC} = 5.0V	0.1	0.5	0.8	V
	V_{01}	L = 10 lx, V_{CC} = 5.0V †	2.0	2.7	3.4	V
	V_{02}	L = 800 lx, V_{CC} = 5.0V †	3.9	4.1	4.9	V
	η	V_{01}-V_{OFF}, V_{CC} = 5.0V	1.65	1.9	3.3	V
Output Impedance	Z	—	5.0	10	15.0	kΩ
Peak Sensitivity Wavelength	λρ	—	400	600	700	nm

† Halogen lamp light source.

Fig.	Operating Supply Voltage Typ. (V)	Current Consumption Typ. (mA)	Max. Recep. Distance (m) Min.	Typ.	Carrier Frequency Typ. (kHz)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	5.0	2.4	8.0	10.0	36.7	PNA4601M-ND◆	1.27	1.06	.85	PNA4601M
	5.0	2.4	8.0	10.0	38.0	PNA4602M-ND◆	1.28	1.03	.77	PNA4602M
	5.0	2.4	8.0	10.0	38.0	PNA4612M-ND◆	1.27	1.06	.85	PNA4612M
	3.3	0.8	7.0	—	36.7	PNA4701M-ND◆	1.47	1.18	.89	PNA4701M
	3.3	0.8	7.0	—	38.0	PNA4702M-ND◆	1.46	1.22	.98	PNA4702M
2	5.0	2.4	11.0	18.0	36.7	PNA4611M00YB-ND	1.43	1.15	.86	PNA4611M00YB
	5.0	2.4	11.0	18.0	38.0	PNA4612M00YB-ND	1.43	1.15	.86	PNA4612M00YB
	5.0	2.4	11.0	18.0	56.9	PNA4614M00YB-ND◆	1.43	1.15	.86	PNA4614M00YB
3	5.0	2.4	11.0	18.0	36.7	PNA4611M00XD-ND	1.43	1.15	.86	PNA4611M00XD
	5.0	2.4	11.0	18.0	38.0	PNA4612M00XD-ND◆	1.43	1.15	.86	PNA4612M00XD
4	5.0	2.4	8.0	10.0	36.7	PNA4601M00LB-ND◆	1.46	1.22	.98	PNA4601M00LB
	5.0	2.4	8.0	10.0	38.0	PNA4602M00LB-ND◆	1.46	1.22	.98	PNA4602M00LB
	3.3	0.8	7.0	—	36.7	PNA4701M00LB-ND◆	1.46	1.22	.98	PNA4701M00LB
5	5.0	2.4	8.0	10.0	36.7	PNA4601M00LC-ND◆	1.46	1.22	.98	PNA4601M00LC
6	5.0	2.4	11.0	18.0	38.0	PNA4612M00HB-ND◆	1.46	1.22	.98	PNA4612M00HB
	3.3	0.8	9.0	—	36.7	PNA4701M00HB-ND◆	1.46	1.22	.98	PNA4701M00HB
7	5.0	2.4	11.0	18.0	36.7	PNA4611M00HC-ND◆	1.46	1.22	.98	PNA4611M00HC
8	5.0	2.4	11.0	18.0	36.7	PNA4611M00HD-ND◆	1.46	1.22	.98	PNA4611M00HD
9	5.0	2.4	11.0	18.0	36.7	PNA4611M00XB-ND◆	1.46	1.22	.98	PNA4611M00XB
	5.0	2.4	11.0	18.0	38.0	PNA4612M00XB-ND◆	1.46	1.22	.98	PNA4612M00XB
10	5.0	2.4	11.0	18.0	36.7	PNA4611M00YA-ND◆	1.46	1.22	.98	PNA4611M00YA
	5.0	2.4	11.0	18.0	38.0	PNA4612M00YA-ND◆	1.46	1.22	.98	PNA4612M00YA
11	5.0	1.9	11.0	25.0	56.9	PNA4658M00YE-ND◆	1.38	1.11	.83	PNA4658M00YE
12A	3.3	0.2	11.0	—	36.7	PNA4861M00XA-ND◆ ***NEW!***	.96	.81	.65	PNA4861M00XA
12B	3.3	0.2	11.0	—	36.7	PNA4861M00XB-ND◆ ***NEW!***	.96	.81	.65	PNA4861M00XB
13	3.3	0.2	11.0	—	36.7	PNA4861M-ND◆ ***NEW!***	.77	.65	.52	PNA4861M
14	See PNA4603H Main Characteristics Chart					PNA4603H-ND◆	3.16	2.54	1.97	PNA4603H
15	See PNA4603H Main Characteristics Chart; right angle					PNA4603H00LB-ND◆	2.24	1.80	1.35	PNA4603H00LB

◆ ***RoHS Compliant***

Optoisolators

Fig. 1

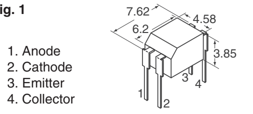

Fig. 2

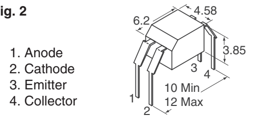

Circuits

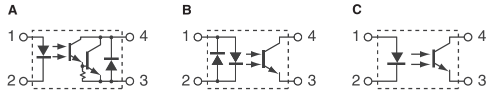

Fig.	Circuit	Isolation Voltage (Vrms)	Current Transfer Ratio	V_{CEO} (Max.)	Typ. t_{on}/t_{off} (µsec.)	Digi-Key Part No.	Price Each 1	10	100
1	C	5000	80 ~ 600%	80	2/3	CNC1S101-ND	.58	.47	.35
			100 ~ 300%	80	2/3	CNC1S101R-ND	.51	.39	.29
			200 ~ 600%	80	2/3	CNC1S101S-ND	.51	.39	.29
			100 ~ 250%	80	2/3	CNC1S171R0LF-ND	.56	.43	.32
			200 ~ 600%	80	2/3	CNC1S171S0LF-ND	.56	.43	.32
	B	5000	20 ~ 300%	80	4/3	CNC7S101-ND	.72	.54	.41
			50 ~ 150%	80	4/3	CNC7S101R-ND	.77	.58	.44
			100 ~ 300%	80	4/3	CNC7S101S-ND	.77	.58	.44
			80 ~ 240%	80	4/3	CNC7S101Y-ND	.77	.58	.44

Fig.	Circuit	Isolation Voltage (Vrms)	Current Transfer Ratio	V_{CEO} (Max.)	Typ. t_{on}/t_{off} (µsec.)	Digi-Key Part No.	Price Each 1	10	100
1	A	5000	1000 ~ 4000%	350	40/15	CNC2S501-ND	.85	.71	.57
			1000 ~ 4000%	350	40/15	CNZ3731-ND	.77	.65	.52
2	C	5000	100 ~ 300%	80	2/3	CNC1S101R0LF-ND	.56	.43	.32
			200 ~ 600%	80	2/3	CNC1S101S0LF-ND	.56	.43	.32
			50 ~ 600%	80	2/3	CNC1S171-ND	.71	.54	.40
			100 ~ 250%	80	2/3	CNC1S171R-ND	.51	.39	.29
			200 ~ 600%	80	2/3	CNC1S171S-ND	.51	.39	.29

Honeywell
Sensing and Control

SenSym ICT

Solid State Pressure Sensors

For use in medical equipment, pneumatic controls, computer peripherals and pressure instrumentation, process and flow control.

Fig. 1 — Sensor AMP

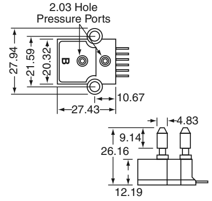

Fig. 2 — SDX A4, D4, IND4

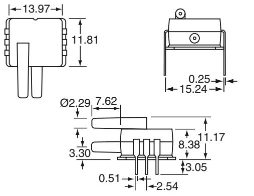

Fig. 3 — SDX A2/G2/D2

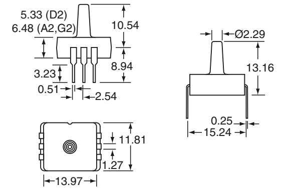

Fig. 4 — Pigtail

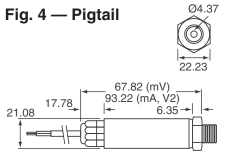

Note: 4-Conductor Cable. 24 AWG conductors shielded with drain wire 24" (61cm) long.

Fig. 5 — Button Sensor

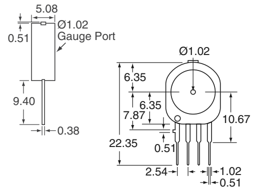

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time†	Operating Temperature	Digi-Key Part No.	Price Each			Honeywell Part No.
									1	25	100	
Signal Conditioned Pressure Sensors												
1	0-1 PSID	Differential/Gage	0.25 ~ 4.5V	SIP	4.5 ~ 16	100µSec	-25°C ~ 105°C	287-1002-ND	68.45	54.20	50.39	ASCX01DN
	0-5 PSID	Differential/Gage	0.25 ~ 4.5V				-25°C ~ 105°C	287-1003-ND◆	68.45	54.20	50.39	ASCX05DN
	0-15 PSIA	Absolute	0.25 ~ 4.5V				-25°C ~ 105°C	287-1008-ND◆	68.45	54.20	50.39	ASCX15AN
	0-15 PSID	Differential/Gage	0.25 ~ 4.5V				-25°C ~ 105°C	287-1009-ND◆	68.45	54.20	50.39	ASCX15DN
	0-30 PSIA	Absolute	0.25 ~ 4.5V				-25°C ~ 105°C	287-1010-ND◆	68.45	54.20	50.39	ASCX30AN
	0-30 PSID	Differential/Gage	0.25 ~ 4.5V				-25°C ~ 105°C	287-1011-ND◆	68.45	54.20	50.39	ASCX30DN
	0-100 PSIA	Absolute	0.25 ~ 4.5V				-25°C ~ 105°C	287-1004-ND◆	68.45	54.20	50.39	ASCX100AN
	0-100 PSID	Differential/Gage	0.25 ~ 4.5V				-25°C ~ 105°C	287-1005-ND◆	68.45	54.20	50.39	ASCX100DN
	0-150 PSIA	Absolute	0.25 ~ 4.5V				-25°C ~ 105°C	287-1006-ND◆	68.45	54.20	50.39	ASCX150AN
	0-150 PSID	Differential/Gage	0.25 ~ 4.5V				-25°C ~ 105°C	287-1007-ND	68.45	54.20	50.39	ASCX150DN
Precision Compensated Pressure Sensors												
1	0-1 PSID	Differential/Gage	0-18mV	SIP	20	100µSec	-40°C ~ 85°C	287-1017-ND◆	76.42	61.14	57.86	SCX01DN
	0-5 PSID	Differential/Gage	0-60mV				-40°C ~ 85°C	287-1018-ND	64.10	50.75	48.08	SCX05DN
	0-15 PSIA	Absolute	0-90mV				-40°C ~ 85°C	287-1023-ND◆	64.10	50.75	48.08	SCX15AN
	0-15 PSID	Differential/Gage	0-90mV				-40°C ~ 85°C	287-1024-ND◆	64.10	50.75	48.08	SCX15DN
	0-30 PSIA	Absolute	0-90mV				-40°C ~ 85°C	287-1025-ND◆	64.10	50.75	48.08	SCX30AN
	0-30 PSID	Differential/Gage	0-90mV				-40°C ~ 85°C	287-1026-ND	64.10	50.75	48.08	SCX30DN
	0-100 PSIA	Absolute	0-100mV				-40°C ~ 85°C	287-1019-ND	76.42	61.14	57.86	SCX100AN
	0-100 PSID	Differential/Gage	0-100mV				-40°C ~ 85°C	287-1020-ND	76.42	61.14	57.86	SCX100DN
	0-150 PSIA	Absolute	0-90mV				-40°C ~ 85°C	287-1021-ND	76.42	61.14	57.86	SCX150AN
	0-150 PSID	Differential/Gage	0-90mV				-40°C ~ 85°C	287-1022-ND	76.42	61.14	57.86	SCX150DN
	0-4" H2O	WC	Ratio		18	500µSec	0°C ~ 70°C	287-1027-ND◆	88.77	71.02	67.22	SCXL004DN
2	0-1 PSID	Differential/Gage	0-18mV	DIP	20	100µSec	-40°C ~ 85°C	287-1028-ND◆	38.76	29.82	27.83	SDX01D4
	0-5 PSID	Differential/Gage	0-60mV				-40°C ~ 85°C	287-1030-ND	38.76	29.82	27.83	SDX05D4
	0-15 PSIA	Absolute	0-90mV				-40°C ~ 85°C	287-1037-ND◆	38.76	29.82	27.83	SDX15A4
	0-15 PSID	Differential/Gage	0-90mV				-40°C ~ 85°C	287-1038-ND	38.76	29.82	27.83	SDX15D4
	0-30 PSIA	Absolute	0-90mV				-40°C ~ 85°C	287-1041-ND◆	38.76	29.82	27.83	SDX30A4
	0-30 PSID	Differential/Gage	0-90mV				-40°C ~ 85°C	287-1042-ND	38.76	29.82	27.83	SDX30D4
	0-100 PSIA	Absolute	0-100mV				-40°C ~ 85°C	287-1033-ND◆	38.76	29.82	27.83	SDX100A4
	0-100 PSID	Differential/Gage	0-100mV				-40°C ~ 85°C	287-1034-ND◆	38.76	29.82	27.83	SDX100D4
	0-5" H2O	WC	0-20mV				-20°C ~ 85°C	287-1125-ND◆	71.57	56.67	52.69	SDX005IND4
	0-10" H2O	WC	0-20mV				-20°C ~ 85°C	287-1126-ND◆	60.99	48.29	45.75	SDX010IND4
3	0-1 PSIG	Gage	0-18mV	DIP	20	100µSec	-40°C ~ 85°C	287-1029-ND	38.76	29.82	27.83	SDX01G2
	0-5 PSIG	Gage	0-60mV				-40°C ~ 85°C	287-1031-ND◆	38.76	29.82	27.83	SDX05G2
	0-15 PSIA	Absolute	0-90mV				-40°C ~ 85°C	287-1036-ND◆	38.76	29.82	27.83	SDX15A2
	0-15 PSIG	Gage	0-90mV				-40°C ~ 85°C	287-1039-ND◆	38.76	29.82	27.83	SDX15G2
	0-30 PSIA	Absolute	0-90mV				-40°C ~ 85°C	287-1040-ND◆	38.76	29.82	27.83	SDX30A2
	0-30 PSIG	Gage	0-90mV				-40°C ~ 85°C	287-1043-ND◆	38.76	29.82	27.83	SDX30G2
	0-100 PSIA	Absolute	0-100mV				-40°C ~ 85°C	287-1032-ND◆	38.76	29.82	27.83	SDX100A2
	0-100 PSIG	Gage	0-100mV				-40°C ~ 85°C	287-1035-ND◆	38.76	29.82	27.83	SDX100G2
Calibrated and Temperature Compensated Steel Sensors												
4	0-5 PSIG	Gage	1-5VDC	Steel 1/4" (6.35mm) 18NPT (Male)	12 ~ 30	5 ms	-40°C ~ 125°C	287-1090-ND	223.14	180.48	167.36	SPT4V0005PG5W02
	0-15 PSIG	Gage	1-5VDC				-40°C ~ 125°C	287-1091-ND	218.89	177.05	164.17	SPT4V0015PG5W02
	0-30 PSIG	Gage	1-5VDC				-40°C ~ 125°C	287-1092-ND	224.48	181.57	168.37	SPT4V0030PG5W02
	0-100 PSIG	Gage	1-5VDC				-40°C ~ 125°C	287-1093-ND	224.25	181.38	168.19	SPT4V0100PG5W02
	0-500 PSIG	Gage	1-5VDC				-40°C ~ 125°C	287-1095-ND	223.70	180.94	167.78	SPT4V0500PG5W02
	0-5 PSIG	Gage	4-20mA		12.5 ~ 30	5 ms	-40°C ~ 125°C	287-1096-ND◆	160.67	129.96	120.51	SPTMA0005PG5W02
	0-15 PSIG	Gage	4-20mA				-40°C ~ 125°C	287-1097-ND	155.05	125.41	116.29	SPTMA0015PG5W02
	0-30 PSIG	Gage	4-20mA				-40°C ~ 125°C	287-1098-ND	160.63	129.93	120.48	SPTMA0030PG5W02
	0-100 PSIG	Gage	4-20mA				-40°C ~ 125°C	287-1099-ND	160.42	129.75	120.32	SPTMA0100PG5W02
4	0-30 PSIG	Gage	0-100mV	Pigtail Electrical Connection	15	100µSec	-40°C ~ 125°C	287-1104-ND	125.14	103.06	95.70	SPTMV0030PG5W02
	0-100 PSIG	Gage	0-100mV				-40°C ~ 125°C	287-1105-ND	125.14	103.06	95.70	SPTMV0100PG5W02
	0-300 PSIG	Gage	0-100mV				-40°C ~ 125°C	287-1106-ND	192.17	158.26	146.96	SPTMV0300PG5W02
	0-500 PSIG	Gage	0-100mV				-40°C ~ 125°C	287-1107-ND	146.34	140.00	97.08	SPTMV0500PG5W02
High-Impedance Bridge Sensors												
2	0-1 PSID	Differential	0-20mV	DIP	12	100µSec	-40°C ~ 85°C	287-1065-ND◆	31.05	23.89	22.30	SX01DD4
	0-5 PSID	Differential	0-75mV				-40°C ~ 85°C	287-1068-ND◆	25.84	19.38	18.09	SX05DD4
	0-15 PSIA	Absolute	0-110mV				-40°C ~ 85°C	287-1080-ND◆	25.84	19.38	18.09	SX15AD4
	0-15 PSID	Differential	0-110mV				-40°C ~ 85°C	287-1082-ND	25.84	19.38	18.09	SX15DD4
	0-30 PSIA	Absolute	0-110mV				-40°C ~ 85°C	287-1086-ND	25.84	19.38	18.09	SX30AD4
	0-30 PSID	Differential	0-110mV				-40°C ~ 85°C	287-1088-ND	25.84	19.38	18.09	SX30DD4
	0-100 PSIA	Absolute	0-150mV				-40°C ~ 85°C	287-1072-ND◆	32.67	25.13	23.46	SX100AD4
	0-100 PSID	Differential	0-150mV				-40°C ~ 85°C	287-1074-ND◆	31.05	23.89	22.30	SX100DD4
3	0-1 PSIG	Gage	0-20mV	DIP	12	100µSec	-40°C ~ 85°C	287-1066-ND◆	33.98	26.14	24.40	SX01GD2
	0-5 PSIG	Gage	0-75mV				-40°C ~ 85°C	287-1069-ND◆	34.90	26.64	25.26	SX05GD2
	0-15 PSIA	Absolute	0-110mV				-40°C ~ 85°C	287-1079-ND	25.84	19.38	18.09	SX15AD2
	0-15 PSIG	Gage	0-110mV				-40°C ~ 85°C	287-1083-ND◆	25.19	19.38	18.09	SX15GD2
	0-30 PSIA	Absolute	0-110mV				-40°C ~ 85°C	287-1085-ND◆	25.84	19.38	18.09	SX30AD2
	0-30 PSIG	Gage	0-110mV				-40°C ~ 85°C	287-1089-ND	25.84	19.38	18.09	SX30GD2
	0-100 PSIA	Absolute	0-150mV				-40°C ~ 85°C	287-1071-ND	31.29	24.07	22.47	SX100AD2
	0-100 PSIG	Gage	0-150mV				-40°C ~ 85°C	287-1075-ND	34.28	26.16	24.81	SX100GD2
5	0-1 PSID	Differential	0-20mV	Button	12	100µSec	-40°C ~ 85°C	287-1064-ND◆	31.05	23.89	22.30	SX01D
	0-5 PSID	Differential	0-75mV				-40°C ~ 85°C	287-1067-ND	25.84	19.38	18.09	SX05D
	0-15 PSID	Differential	0-110mV				-40°C ~ 85°C	287-1081-ND◆	25.84	19.38	18.09	SX15D
	0-15 PSIA	Absolute	0-110mV				-40°C ~ 85°C	287-1078-ND◆	25.84	19.38	18.09	SX15A
	0-30 PSID	Differential	0-110mV				-40°C ~ 85°C	287-1087-ND	25.84	19.38	18.09	SX30D
	0-30 PSIA	Absolute	0-110mV				-40°C ~ 85°C	287-1084-ND	25.84	19.38	18.09	SX30A
	0-100 PSIA	Absolute	0-150mV				-40°C ~ 85°C	287-1070-ND◆	31.05	23.89	22.30	SX100A
	0-100 PSID	Differential	0-150mV				-40°C ~ 85°C	287-1073-ND	31.05	23.89	22.30	SX100D
	0-150 PSIA	Absolute	0-110mV				-40°C ~ 85°C	287-1076-ND	31.05	23.89	22.30	SX150A
	0-150 PSID	Differential	0-110mV				-40°C ~ 85°C	287-1077-ND	31.05	23.89	22.30	SX150D

† Response time for a 0 psi to full scale span pressure step change, 10% to 90% rise time. ◆ ***RoHS Compliant***

Honeywell
Sensing and Control

SenSym ICT

Solid State Pressure Sensors

Dimensions in mm

Fig.	Pressure Range (PSI)	Pressure Type	Supply	Digi-Key Part No.	Price Each 1	25	100	Honeywell Part No.
Pressure Sensors Calibrated and Temperature Compensated								
1	0 ~ 1	Gage	5.25V	480-1923-ND	23.95	18.33	16.77	ASDX001G24R
	0 ~ 5			480-1924-ND	23.95	18.33	16.77	ASDX005G24R
	0 ~ 15			480-1925-ND	23.95	18.33	16.77	ASDX015G24R
	0 ~ 30			480-1926-ND	23.95	18.33	16.77	ASDX030G24R
	0 ~ 100			480-1927-ND	23.95	18.33	16.77	ASDX100G24R
2	0 ~ 1	Differential	5.25V	480-1918-ND	23.95	18.33	16.77	ASDX001D44R
	0 ~ 5			480-1919-ND	23.95	18.33	16.77	ASDX005D44R
	0 ~ 15			480-1920-ND	23.95	18.33	16.77	ASDX015D44R
	0 ~ 100			480-1922-ND	23.95	18.33	16.77	ASDX100D44R
3	0 ~ 15	Absolute	5.25V	480-1915-ND	23.95	18.33	16.77	ASDX015A24R
	0 ~ 30			480-1916-ND	23.95	18.33	16.77	ASDX030A24R
	0 ~ 100			480-1917-ND	23.95	18.33	16.77	ASDX100A24R
4	0 ~ 5	Differential	1.5mA	480-2857-ND	20.79	15.91	14.56	SCC05DD4
	0 ~ 15		1.5mA	480-2860-ND	20.79	15.91	14.56	SCC15DD4
	0 ~ 15		20Vdc	480-2868-ND	47.22	36.04	34.18	SDX15D4-A
5	0 ~ 5	Differential	1.5mA	480-2858-ND	24.19	18.15	16.94	SCC05DN
	0 ~ 100		12Vdc	480-2870-ND	35.18	27.06	25.26	SX100DN
6	0 ~ 15	Differential	1.5mA	480-2859-ND	20.79	15.91	14.56	SCC15D
	0 ~ 30		1.5mA	480-2862-ND	20.79	15.91	14.56	SCC30D
	0 ~ 30		12Vdc	480-2871-ND	44.15	33.70	31.96	SX7030D
	0 ~ 100		12Vdc	480-2872-ND	44.15	33.70	31.96	SX7100D
7	0 ~ 1	Gage	20Vdc	480-2864-ND	47.22	36.04	34.18	SDX01G2-A
	0 ~ 15	Gage	1.5mA	480-2861-ND	20.79	15.91	14.56	SCC15GD2
	0 ~ 15	Gage	20Vdc	480-2869-ND	47.22	36.04	34.18	SDX15G2-A
	0 ~ 15	Absolute	20Vdc	480-2866-ND	47.22	36.04	34.18	SDX15A2-A
	0 ~ 100	Gage	20Vdc	480-2865-ND	47.22	36.04	34.18	SDX100G2-A
8	0 ~ 15	Absolute	20Vdc	480-2863-ND	39.23	29.94	28.39	SCX15ANC
9	0 ~ 15	Absolute	20Vdc	480-2867-ND	47.22	36.04	34.18	SDX15A4-A

Fig. 1

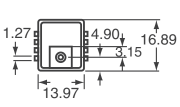

Fig. 2

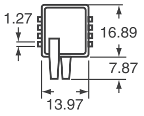

Fig. 3

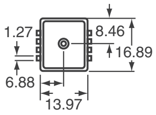

Fig. 4

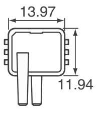

Fig. 5

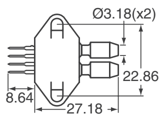

Fig. 6

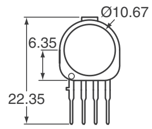

Fig. 7

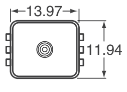

Fig. 8

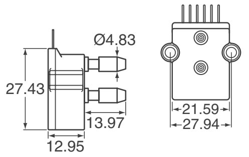

Fig. 9

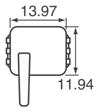

AWM Airflow Sensors

The AWM1000 Series mass flow sensor provides all of the outstanding performance benefits of the standard AWM2000 series in a more cost-effective sensor platform **Features:** • Cost-effective microbridge technology • Accurate, repeatable airflow sensing • Bi-directional sensing capability

The AWM2000 Series microbridge mass airflow sensor is a passive device comprised of two Wheatstone bridges **Features:** • Bi-directional sensing capability • Actual mass airflow sensing • Low differential pressure sensing

Recommended Excitation	Response Time	Operating Temperature Range	Digi-Key Part No.	Price Each 1	25	100	Honeywell Part No.
10.000 ± 0.010 VDC	3.0 msec	-25°C ~ 85°C	480-2855-ND	54.67	43.28	41.01	AWM1200V
			480-2856-ND	58.99	46.70	44.24	AWM2300V

Dimensions in mm

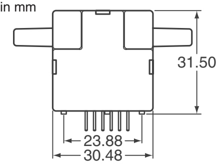

PCB Mount Pressure Sensors

The 24PC Series miniature pressure sensors provide reliable gage and absolute pressure sensing performance in a compact package. The low power, non-amplified, non-compensated Wheatstone bridge circuit design provides inherently stable mV outputs over 0.5 ~ 250 psi sensing ranges.

Features: • 1ms response time • Supply voltage: 10.0 ~ 12.0 Vdc • Operating Temperature: -40°C ~ 85°C

The 26PC Series miniature pressure sensors provide reliable gage and differential pressure sensing performance in a compact package. The low power, non-amplified, non-compensated Wheatstone bridge circuit design provides inherently stable mV outputs over 1.0 ~ 250 psi sensing ranges.

Features: • 1ms response time • Supply voltage: 10.0 ~ 16.0 Vdc • Operating Temperature: -40°C ~ 85°C

Dimensions in mm

Fig. 1

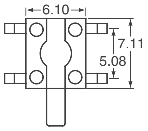

Fig. 2

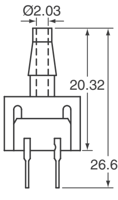

Fig. 3

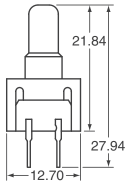

Fig. 4

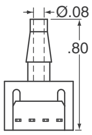

Fig. 5

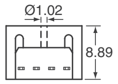

Fig. 6

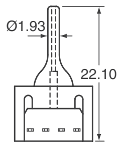

Fig. 7

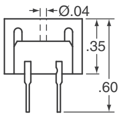

Fig.	Pressure Type	Pressure Range (PSI)	Linearity (% Span)	Digi-Key Part No.	Price Each 1	25	100	Honeywell Part No.
24PC Series								
1	Differential	0 ~ 1	±0.15	480-2837-ND	11.01	7.81	7.19	24PC01SMT
2	Gage	0 ~ 5	±0.2	480-2838-ND	14.53	10.57	9.58	24PCBFB2G
		0 ~ .5		480-2842-ND	14.53	10.57	9.58	24PCEFB2G
3	Gage	0 ~ 15	±0.2	480-2839-ND	14.53	10.57	9.58	24PCCFA2G
4	Gage	0 ~ 15	±0.2	480-2840-ND	14.53	10.57	9.58	24PCCFB6G
5	Absolute	0 ~ 15	±0.1	480-2841-ND	14.39	10.47	9.49	24PCCFD6A
	Gage	0 ~ .5	±0.2	480-2843-ND	12.39	8.98	7.99	24PCEFD6G
6	Gage	0 ~ .5	±0.2	480-2844-ND	14.53	10.57	9.58	24PCEFJ6G
26PC Series								
2	Gage	0 ~ 5	±0.4	480-2848-ND	17.15	12.67	11.65	26PCBFB2G
6	Gage	0 ~ 15	±0.25	480-2846-ND	20.59	15.20	13.97	26PCAFJ3G
				480-2852-ND	20.59	15.20	13.97	26PCCFJ6G
7	Gage	0 ~ 1	±0.25	480-2845-ND	20.59	15.20	13.97	26PCAFD2G
8	Gage	0 ~ 1		480-2847-ND	17.15	12.67	11.65	26PCAFK2G
9	Gage	0 ~ 15		480-2849-ND	20.59	15.20	13.97	26PCCFA3G
10	Gage	0 ~ 15		480-2850-ND	20.59	15.20	13.97	26PCCFH6G
11	Differential	0 ~ 15		480-2851-ND	20.59	15.20	13.97	26PCCFJ6D
12	Gage	0 ~ 100	±0.4	480-2853-ND	17.15	12.67	11.65	26PCFFS2G
13		0 ~ 250	±0.5	480-2854-ND	17.15	12.67	11.65	26PCGNM6G

Fig. 8

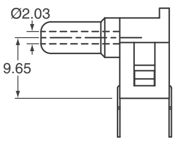

Fig. 9

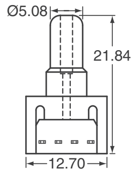

Fig. 10

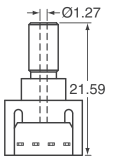

Fig. 11

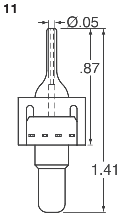

Fig. 12

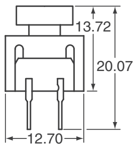

Fig. 13

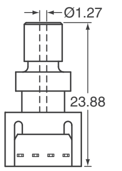

N

Honeywell
Sensing and Control

SenSym ICT Digital Pressure Gauges SDPGB Series

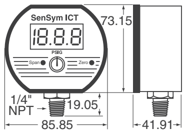

Features:
• ±0.25% Test Gauge Accuracy • 316 Stainless Steel Sensor • Long Battery Life (Two AA Alkaline approximately 2,500 hours) • Rugged Design • Display: 3 1/2” digit LCD, 1/2” Digit Height • Auto Shutoff Time • Low Battery Indication • Media Compatibility: All wetted parts are 316 SS compatible with most liquids and gases

Pressure Range	Resolution PSIG	Operating Temperature	Pressure Port	Digi-Key Part No.	Price Each	Honeywell Part No.
0 ~ 300 PSIG	1.0	-20°C ~ 85°C	316 Stainless Steel	287-1933-ND	274.60	SDPGB0300PG5
0 ~ 1,000 PSIG	1.0			287-1935-ND	274.60	SDPGB1000PG5

Isolated Pressure Sensors and Compensated Sensors

Features: • Response Time: 100 µSec, BE Series-Response Time: 10 mS (0 psi to full scale span pressure step change, 10% to 90% risetime.) • Operating Temperature: -40°C ~ 125°C

Pressure Range (PSI)	Pressure Type	Output (mV)	Port Description	Max. Supply	Digi-Key Part No.	Price Each			Honeywell Part No.
						1	25	100	
13mm — RoHS Compliant									
0 ~ 1,000	Absolute	0-200	1/8” 27 NPT-SS	12VDC	287-1123-ND	86.73	70.19	65.18	13C1000PA4K
0 ~ 5,000					287-1124-ND	86.73	70.19	65.18	13C5000PA4K
19mm — Calibrated and Compensated									
0 ~ 15	Absolute	0-100	1/8” 27 NPT-SS	15VDC	287-1108-ND◆	91.35	73.93	68.65	19C015PA4K
	Gage				287-1109-ND◆	91.35	73.93	68.65	19C015PG4K
	Vacuum				287-1938-ND	91.35	73.93	68.65	19C015PV4K
0 ~ 15	Vacuum	0-100	1/4” 18 NPT-SS	15VDC	287-1940-ND	91.35	73.93	68.65	19C015PV5K
				2.0mA	287-1941-ND	91.35	73.93	68.65	19C015PV5L
0 ~ 30	Absolute	0-100	1/8” 27 NPT-SS	15VDC	287-1110-ND◆	91.35	73.93	68.65	19C030PA4K
	Gage				287-1111-ND◆	91.35	73.93	68.65	19C030PG4K
	Vacuum				287-1944-ND	91.35	73.93	68.65	19C030PV4K
0 ~ 50	Absolute	0-100	1/8” 27 NPT-SS	15VDC	287-1112-ND	91.35	73.93	68.65	19C050PA4K
	Gage				287-1113-ND◆	91.35	73.93	68.65	19C050PG4K
0 ~ 100	Absolute	0-100	1/8” 27NPT-SS	15VDC	287-1114-ND◆	91.35	73.93	68.65	19C100PA4K
	Gage				287-1115-ND◆	91.35	73.93	68.65	19C100PG4K
0 ~ 100	Vacuum	0-100	1/4” 18 NPT-SS	15VDC	287-1952-ND	91.35	73.93	68.65	19C100PV5K
0 ~ 200	Absolute	0-100	1/8” 27 NPT-SS	15VDC	287-1116-ND◆	91.35	73.93	68.65	19C200PA4K
	Gage				287-1117-ND◆	91.35	73.93	68.65	19C200PG4K
0 ~ 300	Absolute	0-100	1/8” 27 NPT-SS	15VDC	287-1118-ND◆	91.35	73.93	68.65	19C300PA4K
	Gage				287-1119-ND	91.35	73.93	68.65	19C300PG4K
0 ~ 500	Absolute	0-100	1/8” 27 NPT-SS	15VDC	287-1120-ND◆	91.35	73.93	68.65	19C500PA4K
	Gage				287-1121-ND◆	91.35	73.93	68.65	19C500PG4K
Flush Mount									
0 ~ 15	Vacuum	0-100	N/A	15VDC	287-1936-ND	82.11	66.45	61.70	19C015PV2K
0 ~ 30					287-1942-ND	82.11	66.45	61.70	19C030PV2K
0 ~ 100					287-1948-ND	82.11	66.45	61.70	19C100PV2K
Bonded Element									
0 ~ 5,000	Gage	0.5-4.5	7/16”-20 UNF-SS	5.25VDC	287-1130-ND†	60.00	56.00	52.80	BE-4R5000PG6DS
			7/16”-20 UNF-CRS		287-1131-ND†	58.00	54.00	50.40	BE-4R5000PG6DC

† Gland per MS33656 (3-904 O-Ring seal not provided) ◆ ***RoHS Compliant***

13mm Male Port

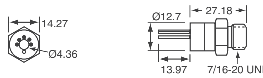

Note: Ø 0.22” ±0.001” (0.56mm ±0.03mm) Pins on Ø 0.230” (5.84mm) pin circle.

19mm Male Port

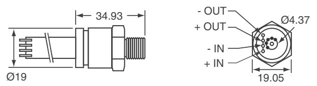

Note: 2” (50.8mm) NOMEX ribbon cable with 0.100” (2.54mm) pin spacing (24 AWG wire size).

Flush Mount

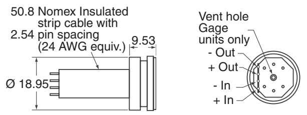
50.8 Nomex Insulated strip cable with 2.54 pin spacing (24 AWG equiv.)
9.53
Ø 18.95
Vent hole
Gage units only
- Out
+ Out
- In
+ In

Bonded Element

Dim. A (mm)	Honeywell Part No.
10.92	BE-4R5000PG6DS
10.92	BE-4R5000PG6DC

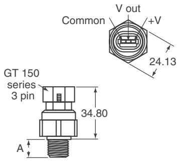

Pressure Transducer

The MEDIAMATE® pressure transducer provides the corrosion resistance of stainless steel at low OEM pricing. It is fully compensated and completely interchangeable without further calibration. It is being used with a wide variety of corrosive media such as Freon, ammonia, water, and hydraulic fluids.

Pressure Range (PSI)	Measurement Type	Operating Temperature	Port Style	Digi-Key Part No.	Price Each			Honeywell Part No.
					1	25	100	
0 ~ 1,000	Gage	-40°C ~ 100°C	1/8 - 27 NPT	480-2836-ND	287.06	237.72	224.27	9302907

Dimensions in mm

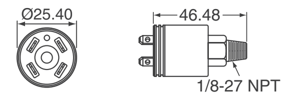

Honeywell
Sensing and Control

HOBBS Pressure and Vacuum Switches 5000 Series

The 5000 Series switches are specifically designed to stand up to extended duty applications. It features a Kapton diaphragm for compatibility with a wide variety of fluids. These switches are factory set. The pressure switches are field adjustable.

Specifications: • Pressure Switch Proof Pressure: 500 PSI • Pressure Switch Burst Pressure: 750 PSI for 0.5 ~ 24 PSI; 1250 PSI for 25 ~ 150 PSI set point range • Vacuum Switch Proof Pressure: -30” Hg • Temperature Range: -40°C ~ 121°C (-40°F ~ 250°F) • Connector: 1/8” - 27” NPT male thread • Terminals: #8 - 32 screws

Load	Ratings	
Resistive:	15 Amp	6VDC
	8 Amp	12VDC
	4 Amp	24VDC
Inductive:	1 Amp	120VAC
	0.5 Amp	240VAC

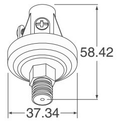

Vacuum Switches

Circuitry	Contact Setting PSIV (Hg)	Digi-Key Part No.	Price Each			Honeywell Part No.
			1	50	100	
N.O.	2"	480-2057-ND	19.23	13.95	13.47	077342 02.0HG 01
N.C.		480-2060-ND	19.23	13.95	13.47	077343 02.0HG 01
N.O.	4"	480-2058-ND	19.23	13.95	13.47	077342 04.0HG 01
N.C.		480-2061-ND	20.47	14.85	14.34	077343 04.0HG 01
N.O.	9"	480-2059-ND	19.23	13.95	13.47	077342 09.0HG 01
N.C.		480-2062-ND	19.23	13.95	13.47	077343 09.0HG 01

Pressure Switches

Circuitry	Contact Setting (PSI)	Factory Setting (PSI)	Digi-Key Part No.	Price Each			Honeywell Part No.
				1	50	100	
N.O.	1.1 ~ 3 ±0.5	2	480-2039-ND	22.80	16.53	15.96	076051 00000020 01
N.C.			480-2043-ND	24.79	17.98	17.36	076061 00000020 01
N.O./N.C.			480-2047-ND	29.92	21.70	20.95	076071 00000020 01
N.O.	3.1 ~ 7 ±1	4	480-2051-ND	22.80	16.53	15.96	076575 00000040 01
N.C.			480-2053-ND	25.22	18.29	17.66	076577 00000040 01
N.O./N.C.			480-2055-ND	25.78	18.70	18.05	076579 00000040 01
N.O.	8 ~ 13 ±2	10	480-2052-ND	21.54	15.62	15.08	076576 00000100 01
N.C.			480-2054-ND	27.16	19.70	19.02	076578 00000100 01
N.O./N.C.			480-2056-ND	27.72	20.10	19.41	076580 00000100 01
N.O.	14 ~ 24 ±3	15	480-2040-ND	22.58	16.37	15.81	076052 00000150 01
N.C.			480-2044-ND	26.85	19.47	18.80	076062 00000150 01
N.O./N.C.			480-2048-ND	31.87	23.11	22.32	076072 00000150 01
N.O.	25 ~ 50 ±5	35	480-2041-ND	22.99	16.68	16.10	076053 00000350 01
N.C.			480-2045-ND	28.68	20.80	20.08	076063 00000350 01
N.O./N.C.			480-2049-ND	31.87	23.11	22.32	076073 00000350 01
N.O.	51 ~ 90 ±7	60	480-2042-ND	23.38	16.96	16.37	076054 00000600 01
N.C.			480-2046-ND	28.68	20.80	20.08	076064 00000600 01
N.O./N.C.			480-2050-ND	28.68	20.80	20.08	076074 00000600 01
Switch Boot							
Switch Boot for Vacuum and Pressure Switches			480-2063-ND	6.51	4.25	3.99	079380 00

Pressure Sensors

Pressure sensors, force sensors and airflow sensors are all developed around semiconductor technology. Each pressure sensor contains a silicon chip with an integral sensing diaphragm and four piezoresistors. Pressure applied on the diaphragm causes it to flex, changing the resistance. This causes a low level output voltage proportional to pressure. Airflow sensors contain a thin-film, thermally isolated bridge structure containing heater and temperature sensing elements. The bridge structure provides a sensitive and fast response to the flow of air or other gas over the chip.

Dimensions in Inches

Fig. 1

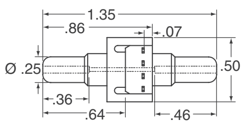

Fig. 2

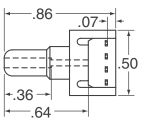

Fig. 3

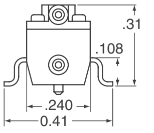

Fig. 4

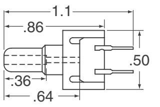

Fig. 5

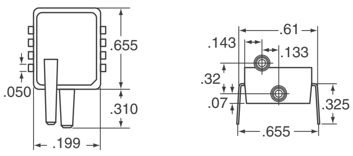

Fig. 6

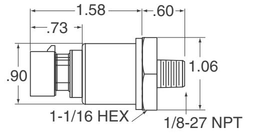

Fig. 7

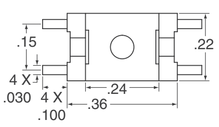

Fig. 8

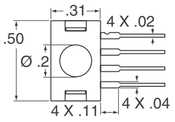

Fig. 9

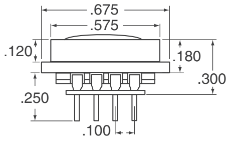

Fig. 10

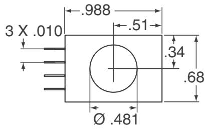

Fig. 11

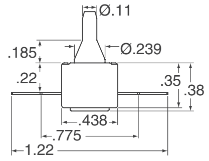

Fig. 12

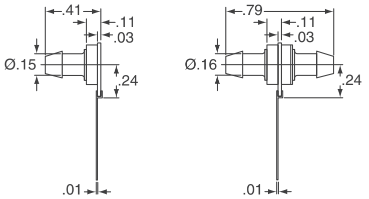

Fig. 13

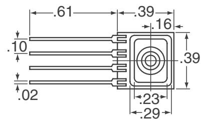

Fig. 14

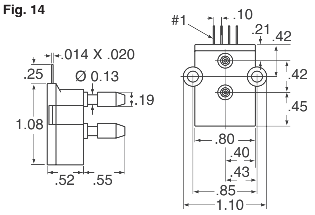

Fig. 15

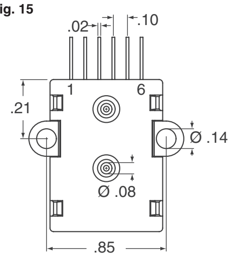

Fig. 16

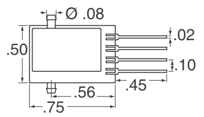

Fig. 17

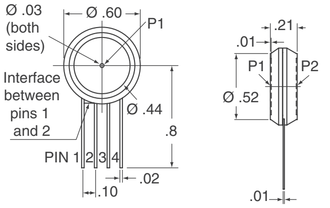

Fig. 18

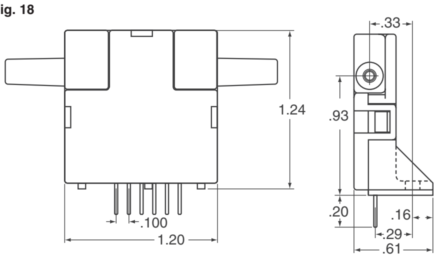

Fig.	Pressure	Output	Digi-Key Part No.	Price Each 1	25	100	Honeywell Part No.
1	1PSID	45mVDC	480-2496-ND	14.53	10.57	9.58	24PCAFA6D
	5PSID	115mVDC	480-2498-ND	14.53	10.57	9.58	24PCBFA6D
	15PSID	225mV	480-2500-ND	14.53	10.57	9.58	24PCCFA6D
	30PSID	330mV	480-2502-ND	14.53	10.57	9.58	24PCDFA6D
	0.5PSID	35mVDC	480-2504-ND	14.53	10.57	9.58	24PCEFA6D
	1PSID	16.7mV	480-2509-ND	20.59	15.20	13.97	26PCAFA6D
	5PSID	50mVDC	480-2512-ND	20.59	15.20	13.97	26PCBFA6D
	15PSID	100mV	480-2516-ND	20.59	15.20	13.97	26PCCFA6D
	30PSID	100mV	480-2519-ND	20.59	15.20	13.97	26PCDFA6D
2	1PSIG	45mVDC	480-2497-ND	14.53	10.57	9.58	24PCAFA6G
	5PSIG	115mVDC	480-2499-ND	14.53	10.57	9.58	24PCBFA6G
	15PSIG	225mV	480-2501-ND	14.53	10.57	9.58	24PCCFA6G
	30PSIG	330mV	480-2503-ND	14.53	10.57	9.58	24PCDFA6G
	0.5PSIG	35mVDC	480-2505-ND	14.53	10.57	9.58	24PCEFA6G
	1PSIG	16.7mV	480-2510-ND	20.59	15.20	13.97	26PCAFA6G
	5PSIG	50mVDC	480-2513-ND	20.59	15.20	13.97	26PCBFA6G
	5PSIG	50mVDC	480-2514-ND	20.59	15.20	13.97	26PCBFB6G
	15PSIG	100mV	480-2517-ND	20.59	15.20	13.97	26PCCFA6G
	15PSIG	100mV	480-2518-ND	20.59	15.20	13.97	26PCCFB6G
	30PSIG	100mV	480-2520-ND	20.59	15.20	13.97	26PCDFA6G
	100PSIG	100mV	480-2521-ND	20.59	15.20	13.97	26PCFFA6G
3	1PSID	14.7 ~ 18.7mV	480-2506-5-ND	18.73	13.83	12.72	26PC01SMT
	5PSID	47 ~ 53mV	480-2507-5-ND	18.73	13.83	12.72	26PC05SMT
	15PSID	96 ~ 104mV	480-2508-5-ND	18.73	13.83	12.72	26PC15SMT
4	5PSIG	50mVDC	480-2511-ND	20.59	15.20	13.97	26PCBFA2G
	15PSIG	100mV	480-2515-ND	20.59	15.20	13.97	26PCCFA2G
5	5PSID	0.5 ~ 4.5VDC	480-2522-5-ND	28.75	21.57	20.13	ASDXL05D44D
	5PSID	Digital (Hex)	480-2523-5-ND	35.53	27.34	25.51	ASDXL05D44D-DO
	10 in H_2OG	0.5 ~ 4.5VDC	480-2524-5-ND	27.55	20.67	19.29	ASDXL10G24R
	10 in H_2OG	Digital (Hex)	480-2525-5-ND	34.05	26.20	24.45	ASDXL10G24R-DO
	3PSID	0.5 ~ 4.5VDC	480-2526-5-ND	27.55	20.67	19.29	ASDXL10D44R
	3PSID	Digital (Hex)	480-2527-5-ND	34.05	26.20	24.45	ASDXL10D44R-DO
	10 in H_2OD	2.5±2VDC	480-2528-5-ND	27.55	20.67	19.29	ASDXL10D44D
	10PSI	Digital (Hex)	480-2529-5-ND	34.05	26.20	24.45	ASDXL10D44D-DO
6	1000PSI	.5 ~ 4.5VDC	480-2530-ND	79.80	63.85	60.43	MLH01KPSB01A
	1000PSI	4 ~ 20mA	480-2531-ND	79.80	63.85	60.43	MLH01KPSB01B
	1000PSI	.5 ~ 4.5VDC	480-2532-ND	79.80	63.85	60.43	MLH01KPSB06A
	1000PSI	4 ~ 20mA	480-2533-ND	79.80	63.85	60.43	MLH01KPSB06B
	2000PSI	.5 ~ 4.5VDC	480-2534-ND	79.80	63.85	60.43	MLH02KPSB06A
	2000PSI	4 ~ 20mA	480-2535-ND	79.80	63.85	60.43	MLH02KPSB01B
6	3000PSI	4 ~ 20mA	480-2536-ND	79.80	63.85	60.43	MLH03KPGB01B
	3000PSI	.5 ~ 4.5VDC	480-2537-ND	79.80	63.85	60.43	MLH03KPSB01A
	3000PSI	4 ~ 20mA	480-2538-ND	79.80	63.85	60.43	MLH03KPSB01B
	3000PSI	.5 ~ 4.5VDC	480-2539-ND	79.80	63.85	60.43	MLH03KPSB06A
	3000PSI	4 ~ 20mA	480-2540-ND	79.80	63.85	60.43	MLH03KPSB06B
	3000PSI	.5 ~ 4.5VDC	480-2541-ND	79.80	63.85	60.43	MLH03KPSL01A
	3000PSI	4 ~ 20mA	480-2542-ND	79.80	63.85	60.43	MLH03KPSL01B
	50PSIG	4 ~ 20mA	480-2543-ND	79.80	63.85	60.43	MLH050PGB01B
	50PSIG	.5 ~ 4.5VDC	480-2544-ND	79.80	63.84	60.42	MLH050PGB01E
	50PSIG	.5 ~ 4.5VDC	480-2545-ND	79.80	63.85	60.43	MLH050PGB06A
	50PSIG	.5 ~ 4.5VDC	480-2546-ND	79.80	63.85	60.43	MLH050PGP06A
	50PSIG	1 ~ 6VDC	480-2547-ND	79.80	63.85	60.43	MLH050PGP06C
	5000PSI	4 ~ 20mA	480-2548-ND	79.80	63.85	60.43	MLH05KPGB01B
	5000PSI	.5 ~ 4.5VDC	480-2549-ND	79.80	63.85	60.43	MLH05KPSB01A
	5000PSI	.5 ~ 4.5VDC	480-2550-ND	79.80	63.85	60.43	MLH05KPSL06A
	5000PSI	1 ~ 6VDC	480-2551-ND	79.80	63.85	60.43	MLH05KPSL10C
	5000PSI	1 ~ 6VDC	480-2552-ND	79.80	63.85	60.43	MLH05KPSP06C
	8000PSI	.5 ~ 4.5VDC	480-2553-ND	79.80	63.85	60.43	MLH08KPSB01A
	8000PSI	4 ~ 20mA	480-2554-ND	79.80	63.85	60.43	MLH08KPSB01B
	100PSI	.5 ~ 4.5VDC	480-2555-ND	79.80	63.85	60.43	MLH100PAB06A
	100PSI	1 ~ 5VDC	480-2556-ND	79.80	63.85	60.43	MLH100PAB06G
	100PSI	.5 ~ 4.5VDC	480-2557-ND	79.80	63.85	60.43	MLH100PAG01A
	100PSI	4 ~ 20mA	480-2558-ND	79.80	63.85	60.43	MLH100PAG01B
	100PSI	.5 ~ 4.5VDC	480-2559-ND	79.80	63.85	60.43	MLH100PAG06A
	100PSI	.5 ~ 4.5VDC	480-2560-ND	79.80	63.85	60.43	MLH100PGB01A
	100PSI	4 ~ 20mA	480-2561-ND	79.80	63.85	60.43	MLH100PGB01B
	100PSI	.5 ~ 4.5VDC	480-2562-ND	79.80	63.85	60.43	MLH100PGB06A
	100PSI	4 ~ 20mA	480-2563-ND	79.80	63.85	60.43	MLH100PGB06B
	100PSI	.5 ~ 4.5VDC	480-2564-ND	79.80	63.85	60.43	MLH100PGB10A
	100PSI	.5 ~ 4.5VDC	480-2565-ND	79.80	63.84	60.42	MLH100PGL01A
	100PSI	4 ~ 20mA	480-2566-ND	79.80	63.85	60.43	MLH100PGL01B
	100PSI	.5 ~ 4.5VDC	480-2567-ND	79.80	63.85	60.43	MLH100PGL06A
	100PSI	4 ~ 20mA	480-2568-ND	79.80	63.85	60.43	MLH100PGL06B
	100PSI	1 ~ 6VDC	480-2569-ND	79.80	63.85	60.43	MLH100PGL06C
	100PSI	4 ~ 20mA	480-2570-ND	79.80	63.84	60.42	MLH100PGL09B
	100PSI	4 ~ 20mA	480-2571-ND	79.80	63.85	60.43	MLH100PGM01B
	100PSI	4 ~ 20mA	480-2572-ND	79.80	63.85	60.43	MLH100PGM06B
	100PSI	1 ~ 6VDC	480-2573-ND	79.80	63.85	60.43	MLH100PGM06C
	100PSI	4 ~ 20mA	480-2574-ND	79.80	63.85	60.43	MLH100PGP06B

† Cut Tape ‡ Tape and Reel

(Continued)

Dimensions in Inches

Fig. 19

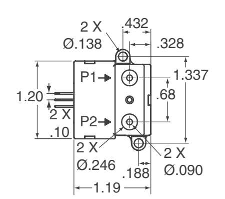

Fig. 20

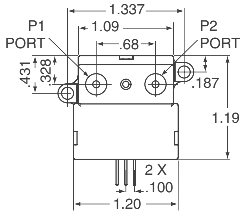

Fig. 21

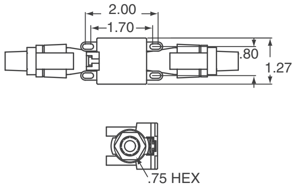

Fig. 22

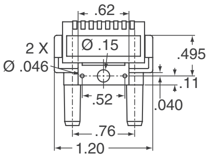

Fig. 23

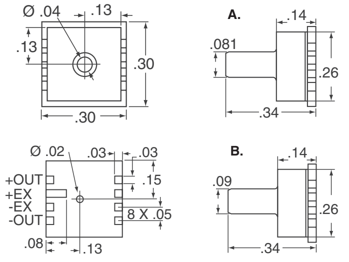

Fig. 24

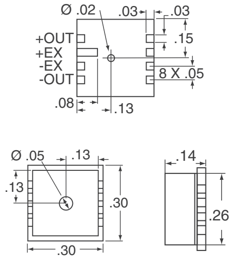

Fig. 25

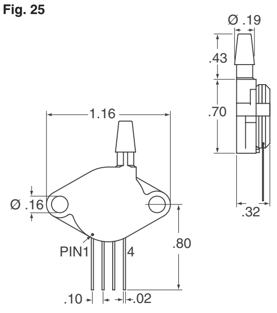

Fig. 26

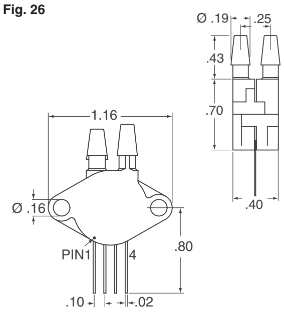

Fig.	Pressure	Output	Digi-Key Part No.	Price Each 1	25	100	Honeywell Part No.
6	100PSI	1 ~ 6VDC	480-2575-ND	79.80	63.85	60.43	MLH100PGP06C
	150PSI	.5 ~ 4.5VDC	480-2576-ND	79.80	63.85	60.43	MLH150PAB01A
	150PSI	.5 ~ 4.5VDC	480-2577-ND	79.80	63.85	60.43	MLH150PGB01A
	150PSI	4 ~ 20mA	480-2578-ND	79.80	63.85	60.43	MLH150PGB01B
	150PSI	.5 ~ 4.5VDC	480-2579-ND	79.80	63.85	60.43	MLH150PGB06A
	150PSI	4 ~ 20mA	480-2580-ND	79.80	63.85	60.43	MLH150PGB06B
	150PSI	1 ~ 5VDC	480-2581-ND	79.80	63.85	60.43	MLH150PGB06G
	150PSI	1 ~ 5VDC	480-2582-ND	79.80	63.84	60.42	MLH150PGL04G
	150PSI	4 ~ 20mA	480-2583-ND	79.80	63.85	60.43	MLH150PGL06B
	200PSI	4 ~ 20mA	480-2584-ND	79.80	63.85	60.43	MLH200PGB01B
	200PSI	4 ~ 20mA	480-2585-ND	79.80	63.85	60.43	MLH200PGL01B
	200PSI	.5 ~ 4.5VDC	480-2586-ND	79.80	63.85	60.43	MLH200PSB06A
	200PSI	4 ~ 20mA	480-2587-ND	79.80	63.85	60.43	MLH200PSB06B
	200PSI	1 ~ 6VDC	480-2588-ND	79.80	63.85	60.43	MLH200PSB09C
	200PSI	.5 ~ 4.5VDC	480-2589-ND	79.80	63.85	60.43	MLH200PSL09A
	250BAR	4 ~ 20mA	480-2590-ND	79.80	63.85	60.43	MLH250BSB01B
	250BAR	4 ~ 20mA	480-2591-ND	79.80	63.85	60.43	MLH250BSD01B
	250PSI	1 ~ 5VDC	480-2592-ND	79.80	63.85	60.43	MLH250PGB06G
	250PSI	1 ~ 6VDC	480-2593-ND	79.80	63.85	60.43	MLH250PGP06C
	250PSI	.5 ~ 4.5VDC	480-2594-ND	79.80	63.85	60.43	MLH250PSB01A
	250PSI	4 ~ 20mA	480-2595-ND	79.80	63.85	60.43	MLH250PSB01B
	250PSI	.5 ~ 4.5VDC	480-2596-ND	79.80	63.85	60.43	MLH250PSB09A
	250PSI	.5 ~ 4.5VDC	480-2597-ND	79.80	63.85	60.43	MLH250PSL09A
	300PSI	.5 ~ 4.5VDC	480-2598-ND	79.80	63.85	60.43	MLH300PSB01A
	300PSI	4 ~ 20mA	480-2599-ND	79.80	63.85	60.43	MLH300PSB01B
	300PSI	1 ~ 6VDC	480-2600-ND	79.80	63.85	60.43	MLH300PSB01C
	300PSI	.5 ~ 4.5VDC	480-2601-ND	79.80	63.85	60.43	MLH300PSB01E
	300PSI	.5 ~ 4.5VDC	480-2602-ND	79.80	63.85	60.43	MLH300PSB09A
	300PSI	.5 ~ 4.5VDC	480-2603-ND	79.80	63.85	60.43	MLH300PSB09E
	500PSI	.5 ~ 4.5VDC	480-2604-ND	79.80	63.85	60.43	MLH500PAB01A
	500PSI	.5 ~ 4.5VDC	480-2605-ND	79.80	63.85	60.43	MLH500PSB01A
	500PSI	4 ~ 20mA	480-2606-ND	79.80	63.85	60.43	MLH500PSB01B
	500PSI	.5 ~ 4.5VDC	480-2607-ND	79.80	63.85	60.43	MLH500PSLB06A
	500PSI	4 ~ 20mA	480-2608-ND	79.80	63.85	60.43	MLH500PSB06B
	500PSI	.5 ~ 4.5VDC	480-2609-ND	79.80	63.85	60.43	MLH500PSB09A
	500PSI	1 ~ 6VDC	480-2610-ND	79.80	63.85	60.43	MLH500PSB09C
	500PSI	.5 ~ 4.5VDC	480-2611-ND	79.80	63.85	60.43	MLH500PSL01A
	500PSI	.5 ~ 4.5VDC	480-2612-ND	79.80	63.85	60.43	MLH500PSL06A
	500PSI	.5 ~ 4.5VDC	480-2613-ND	79.80	63.85	60.43	MLH500PSL09A
	500PSI	4 ~ 20mA	480-2614-ND	79.80	63.84	60.42	MLH500PSL09B
	500PSI	.5 ~ 4.5VDC	480-2615-ND	79.80	63.85	60.43	MLH500PSM09A
	500PSI	4 ~20mA	480-2616-ND	79.80	63.85	60.43	MLH500PSP06B
	500PSI	1 ~ 6VDC	480-2617-ND	79.80	63.85	60.43	MLH500PSP06C
Force Sensor							
7	1500G	180mV	480-2618-ND	36.13	27.79	25.94	FSS1500NSB
			480-2619-1-ND†	46.56	33.12	28.98	FSS1500NSR
			480-2619-2-ND‡		31334.40/1,200		FSS1500NSR
			480-2620-5-ND	35.20	27.08	25.27	FSS1500NST
8	1500G	360mV	480-2621-5-ND	40.62	31.00	29.40	FSG15N1A
9	5PSIG	10VDC	480-2622-ND	69.17	54.77	50.92	1865-01G-KDN
	5PSIG	1.5mA	480-2623-ND	69.17	54.77	50.92	1865-01G-LDN
	10PSIG	10VDC	480-2624-ND	69.17	54.77	50.92	1865-02G-KDN
	10PSIG	1.5mA	480-2625-ND	69.17	54.77	50.92	1865-02G-LDN
	15PSIG	10VDC	480-2626-ND	69.17	54.77	50.92	1865-03G-KDN
	15PSIG	1.5mA	480-2627-ND	69.17	54.77	50.92	1865-03G-LDN
	25PSIG	10VDC	480-2628-ND	69.17	54.77	50.92	1865-05G-KDN
	25PSIG	1.5mA	480-2629-ND	69.17	54.77	50.92	1865-05G-LDN
	30PSIG	10VDC	480-2630-ND	69.17	54.77	50.92	1865-07G-KDN
	30PSIG	1.5mA	480-2631-ND	69.17	54.77	50.92	1865-07G-LDN
Lasertrim Board							
10	1.5LBS	3.0VDC	480-2632-5-ND	85.15	68.13	64.48	FS01
	3LBS		480-2633-5-ND	85.15	68.13	64.48	FS03
11	50mm Hg	4.5VDC	480-2634-5-ND	36.23	27.87	26.01	40PC001B1A
	15PSIG		480-2635-5-ND	34.58	26.60	24.83	40PC015G1A
	15PSIV		480-2636-5-ND	34.58	26.60	24.83	40PC015V2A
	15PSIV		480-2637-5-ND	34.58	26.60	24.83	40PC015V3A

Fig.	Pressure	Output	Digi-Key Part No.	Price Each 1	25	100	Honeywell Part No.
11	100PSIG	4.5VDC	480-2638-5-ND	34.58	26.60	24.83	40PC100G2A
	150PSIG		480-2639-5-ND	34.58	26.60	24.83	40PC150G2A
	250PSIG		480-2640-5-ND	34.58	26.60	24.83	40PC250G2A
	250PSIG		480-2641-5-ND	36.23	27.87	26.01	40PC250G3A
	500PSIG		480-2642-5-ND	36.23	27.87	26.01	40PC500G2A
12	.3PSID	20mVDC	480-2643-5-ND	29.96	23.05	21.52	CPC0.3DFH
	.3PSIV	20mVDC	480-2644-5-ND	30.85	23.74	22.16	CPC0.3GFH
	1PSI	18mV	480-2645-5-ND	29.95	22.46	20.97	CPC01DFC
	1PSIV	18mV	480-2646-5-ND	32.53	25.03	23.36	CPC01GFH
	5PSIV	60mV	480-2647-5-ND	29.95	22.46	20.97	CPC05GFC
	5PSIV	60mV	480-2648-5-ND	32.53	25.03	23.36	CPC05GFH
	15PSIA	90mV	480-2649-5-ND	30.02	23.10	21.56	CPC15AFH
	15PSIA	90mV	480-2650-5-ND	29.08	21.82	20.36	CPC15AH
	4H_2OD	25mV	480-2651-5-ND	26.78	20.09	18.75	CPCL04DFC
	4H_2OG	25mV	480-2652-5-ND	24.88	18.66	17.42	CPCL04GFC
	10H_2OD	20mV	480-2653-5-ND	25.77	19.33	18.04	CPCL10DFC
	10H_2OG		480-2654-5-ND	24.88	18.66	17.42	CPCL10GFC
13	15PSIA	252mV	480-2655-5-ND	19.39	14.32	13.16	CPX15AF
14	1H_2OD	±2V	480-2656-5-ND	73.60	58.89	55.73	DC001NDC4
	2H_2OD		480-2657-5-ND	71.23	56.99	53.94	DC002NDC4
	5H_2OD		480-2658-5-ND	70.82	56.07	52.13	DC005NDC4
	10H_2OD		480-2659-5-ND	68.38	54.14	50.34	DC010NDC4
	30H_2OD		480-2660-5-ND	65.94	52.21	48.55	DC030NDC4
	2.5MBARD		480-2661-5-ND	73.60	58.89	55.73	DC2R5BDC4
15	1H_2OD	10mV	480-2662-5-ND	77.83	62.27	58.93	DCXL01DS
	5H_2OD	20mV	480-2663-5-ND	69.48	55.01	51.15	DCXL05DS
	10H_2OD	20mV	480-2664-5-ND	69.48	55.01	51.15	DCXL10DS
	30H_2OD	20mV	480-2665-5-ND	65.71	52.02	48.37	DCXL30DS
16	1H_2OD	6mV	480-2666-5-ND	46.57	36.50	33.99	DUXL01D
	5H_2OD	22.5mV	480-2667-5-ND	44.65	34.08	32.32	DUXL05D
	10H_2OD	30mV	480-2668-5-ND	43.04	32.85	31.16	DUXL10D
	20H_2OD	30mV	480-2669-5-ND	41.46	31.64	30.01	DUXL20D
17	1PSIDV	75mV	480-2687-5-ND	22.39	17.13	15.68	XPX01D
	100PSIDV	295mV	480-2688-5-ND	29.08	21.82	20.36	XPX100DT
	100PSIV	295mV	480-2689-5-ND	24.28	18.21	17.00	XPX100GFS
	150PSIDV	262.5mV	480-2690-5-ND	20.60	15.76	14.42	XPX150D
	10H_2ODV	2mV/in H_2O	480-2684-5-ND	38.89	29.69	28.15	XPCL10DH
Airflow							
18	200SCCM	±44.5mV	480-2691-5-ND	58.99	46.70	44.24	AWM2100V
	200SCCM	1 ~ 5VDC	480-2692-5-ND	70.74	56.59	53.56	AWM3100V
	1000SCCM	1 ~ 5VDC	480-2693-5-ND	70.74	56.59	53.56	AWM3300V
19	1000SCCM	1 ~ 5VDC	480-2694-5-ND	87.48	70.80	65.74	AWM43300V
20	6SLPM	1 ~ 5VDC	480-2695-5-ND	91.38	73.96	68.67	AWM43600V
21	5SLPM	1 ~ 5VDC	480-2696-ND	121.02	99.67	92.55	AWM5101VN
	20SLPM		480-2697-ND	121.02	99.67	92.55	AWM5104VN
22	200SCCM	±77mVDC	480-2698-5-ND	31.23	24.02	22.42	AWM92100V

† Cut Tape ‡ Tape and Reel

Fig.	Pressure	Sensitivity	Digi-Key Part No.	Price Each 1	25	100	Honeywell Part No.
Typical Sensitivity							
23A	5PSIG	7.5mV/mA/PSI	480-2673-5-ND	14.12	10.28	9.31	SCCP05GSMTP
	100PSIG	1.3mV/mA/PSI	480-2674-5-ND	14.12	10.28	9.31	SCCP100GSMTP
23B	15PSIA	4.3mV/mA/PSI	480-2675-5-ND	14.12	10.28	9.31	SCCP15ASMTLP
24	15PSIA	4.3mV/mA/PSI	480-2671-5-ND	14.28	10.39	9.42	SCC15ASMT
	30PSIA	2.9mV/mA/PSI	480-2672-5-ND	14.28	10.39	9.42	SCC30ASMT
	150PSIA	0.14mV/mA/PSI	480-2677-5-ND	17.34	12.80	11.77	SX150ASMT
25	1PSIV	18mV/PSI	480-2680-5-ND	34.06	26.21	24.46	XPC01GTC
	150PSIV	90mV typ	480-2681-5-ND	30.57	23.52	21.95	XPC150GTC
	15PSIA	6mV/PSI	480-2682-5-ND	31.08	23.91	22.32	XPC15ATC
26	4H_2ODV	6.25mV/PSI	480-2683-5-ND	42.43	32.39	30.71	XPCL04DTC
	1PSIDV	18mV/PSI	480-2679-5-ND	35.81	27.55	25.71	XPC01DTC
	10H_2OD	2mV/in H_2O	480-2685-5-ND	42.43	32.39	30.71	XPCL10DTC
	10H_2OD	2mV/in H_2O	480-2686-5-ND	40.66	31.04	29.43	XPCL10DTH

SSI Technologies, Inc.
Controls Division

MediaSensor™ P51 Pressure Transducers

Description: This family of bulk micro-machined, absolute, gauge and sealed pressure transducers and transmitters are for both harsh and benign media with a total error of ±1% and are well suited for a variety of automotive, industrial and commercial applications. **Features:** • Robust Package: All laser-welded stainless steel design for optimal media isolation • Maximum Flexibility: Custom ASIC provides signal conditioning for calibration and temperature compensation • Temperature Range: -40° ~ 105°C • Response Time: <1ms • Connector: I36 - 36" Integral Harness • No O-Rings • 316L Stainless Steel Construction

Note: More Product available on-line. For pricing and availability, visit our website.

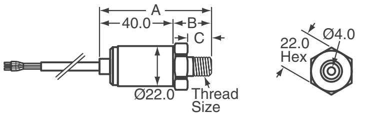

Thread Size	Length - mm		
	A	B	C
1/4-18 NPT	66.6	26.0	18.0
1/8-27 NPT	61.6	21.0	13.0

Color	Output	
	1 ~ 5 V_{OUT} 0.5 ~ 4.5 V_{OUT}	4 ~ 20mA_{OUT}
Red	Power	Power
White	V_{OUT}	Return
Black	Ground	Not Used

Pressure Range (psi)	Pressure Type †	Port Thread (npt)	Digi-Key Part No.	Price Each			SSI Technologies Part No.
				1	10	100	
0.5 ~ 4.5 V_{OUT} — 5+/-0.5 V_{IN}							
15	G	1/4	734-1000-ND	68.63	64.05	61.77	P51-15-G-A-I36-4.5V-R
50	G	1/4	734-1001-ND	68.63	64.05	61.77	P51-50-G-A-I36-4.5V-R
100	G	1/4	734-1002-ND	68.63	64.05	61.77	P51-100-G-A-I36-4.5V-R
200	G	1/4	734-1003-ND	68.63	64.05	61.77	P51-200-G-A-I36-4.5V-R
300	G	1/4	734-1004-ND	68.63	64.05	61.77	P51-300-G-A-I36-4.5V-R
15	G	1/8	734-1005-ND	68.63	64.05	61.77	P51-15-G-B-I36-4.5V-R
50	G	1/8	734-1006-ND	68.63	64.05	61.77	P51-50-G-B-I36-4.5V-R
100	G	1/8	734-1007-ND	68.63	64.05	61.77	P51-100-G-B-I36-4.5V-R
200	G	1/8	734-1008-ND	68.63	64.05	61.77	P51-200-G-B-I36-4.5V-R
300	G	1/8	734-1009-ND	68.63	64.05	61.77	P51-300-G-B-I36-4.5V-R
15	A	1/4	734-1040-ND	68.63	64.05	61.77	P51-15-A-A-I36-4.5V-R
50	A	1/4	734-1041-ND	68.63	64.05	61.77	P51-50-A-A-I36-4.5V-R
100	A	1/4	734-1042-ND	68.63	64.05	61.77	P51-100-A-A-I36-4.5V-R
500	A	1/4	734-1043-ND	68.63	64.05	61.77	P51-500-A-A-I36-4.5V-R
1000	A	1/4	734-1044-ND	68.63	64.05	61.77	P51-1000-A-A-I36-4.5V-R
15	A	1/8	734-1045-ND	68.63	64.05	61.77	P51-15-A-B-I36-4.5V-R
50	A	1/8	734-1046-ND	68.63	64.05	61.77	P51-50-A-B-I36-4.5V-R
100	A	1/8	734-1047-ND	68.63	64.05	61.77	P51-100-A-B-I36-4.5V-R
500	A	1/8	734-1048-ND	68.63	64.05	61.77	P51-500-A-B-I36-4.5V-R
1000	A	1/8	734-1049-ND	68.63	64.05	61.77	P51-1000-A-B-I36-4.5V-R
15	S	1/4	734-1080-ND	68.63	64.05	61.77	P51-15-S-A-I36-4.5V-R
50	S	1/4	734-1081-ND	68.63	64.05	61.77	P51-50-S-A-I36-4.5V-R
100	S	1/4	734-1082-ND	68.63	64.05	61.77	P51-100-S-A-I36-4.5V-R
500	S	1/4	734-1083-ND	68.63	64.05	61.77	P51-500-S-A-I36-4.5V-R
1000	S	1/4	734-1084-ND	68.63	64.05	61.77	P51-1000-S-A-I36-4.5V-R
15	S	1/8	734-1085-ND	68.63	64.05	61.77	P51-15-S-B-I36-4.5V-R
50	S	1/8	734-1086-ND	68.63	64.05	61.77	P51-50-S-B-I36-4.5V-R
100	S	1/8	734-1087-ND	68.63	64.05	61.77	P51-100-S-B-I36-4.5V-R
500	S	1/8	734-1088-ND	68.63	64.05	61.77	P51-500-S-B-I36-4.5V-R
1000	S	1/8	734-1089-ND	68.63	64.05	61.77	P51-1000-S-B-I36-4.5V-R
0.5 ~ 4.5V_{OUT} — 5+/-0.5V_{IN} Over Voltage Protection							
15	G	1/4	734-1010-ND	76.13	71.05	68.51	P51-15-G-A-I36-4.5OV-R
50	G	1/4	734-1011-ND	76.13	71.05	68.51	P51-50-G-A-I36-4.5OV-R
100	G	1/4	734-1012-ND	76.13	71.05	68.51	P51-100-G-A-I36-4.5OV-R
200	G	1/4	734-1013-ND	76.13	71.05	68.51	P51-200-G-A-I36-4.5OV-R
300	G	1/4	734-1014-ND	76.13	71.05	68.51	P51-300-G-A-I36-4.5OV-R
15	G	1/8	734-1015-ND	76.13	71.05	68.51	P51-15-G-B-I36-4.5OV-R
50	G	1/8	734-1016-ND	76.13	71.05	68.51	P51-50-G-B-I36-4.5OV-R
100	G	1/8	734-1017-ND	76.13	71.05	68.51	P51-100-G-B-I36-4.5OV-R
200	G	1/8	734-1018-ND	76.13	71.05	68.51	P51-200-G-B-I36-4.5OV-R
300	G	1/8	734-1019-ND	76.13	71.05	68.51	P51-300-G-B-I36-4.5OV-R
15	A	1/4	734-1050-ND	76.13	71.05	68.51	P51-15-A-A-I36-4.5OV-R
50	A	1/4	734-1051-ND	76.13	71.05	68.51	P51-50-A-A-I36-4.5OV-R
100	A	1/4	734-1052-ND	76.13	71.05	68.51	P51-100-A-A-I36-4.5OV-R
500	A	1/4	734-1053-ND	76.13	71.05	68.51	P51-500-A-A-I36-4.5OV-R
1000	A	1/4	734-1054-ND	76.13	71.05	68.51	P51-1000-A-A-I36-4.5OV-R
15	A	1/8	734-1055-ND	76.13	71.05	68.51	P51-15-A-B-I36-4.5OV-R
50	A	1/8	734-1056-ND	76.13	71.05	68.51	P51-50-A-B-I36-4.5OV-R
100	A	1/8	734-1057-ND	76.13	71.05	68.51	P51-100-A-B-I36-4.5OV-R
500	A	1/8	734-1058-ND	76.13	71.05	68.51	P51-500-A-B-I36-4.5OV-R
1000	A	1/8	734-1059-ND	76.13	71.05	68.51	P51-1000-A-B-I36-4.5OV-R
15	S	1/4	734-1090-ND	76.13	71.05	68.51	P51-15-S-A-I36-4.5OV-R
50	S	1/4	734-1091-ND	76.13	71.05	68.51	P51-50-S-A-I36-4.5OV-R
100	S	1/4	734-1092-ND	76.13	71.05	68.51	P51-100-S-A-I36-4.5OV-R
500	S	1/4	734-1093-ND	76.13	71.05	68.51	P51-500-S-A-I36-4.5OV-R
1000	S	1/4	734-1094-ND	76.13	71.05	68.51	P51-1000-S-A-I36-4.5OV-R
15	S	1/8	734-1095-ND	76.13	71.05	68.51	P51-15-S-B-I36-4.5OV-R
50	S	1/8	734-1096-ND	76.13	71.05	68.51	P51-50-S-B-I36-4.5OV-R
100	S	1/8	734-1097-ND	76.13	71.05	68.51	P51-100-S-B-I36-4.5OV-R
500	S	1/8	734-1098-ND	76.13	71.05	68.51	P51-500-S-B-I36-4.5OV-R
1000	S	1/8	734-1099-ND	76.13	71.05	68.51	P51-1000-S-B-I36-4.5OV-R
1 ~ 5 V_{OUT} — 8 ~ 30V_{IN}							
15	G	1/4	734-1020-ND	68.63	64.05	61.77	P51-15-G-A-I36-5V-R
50	G	1/4	734-1021-ND	68.63	64.05	61.77	P51-50-G-A-I36-5V-R
100	G	1/4	734-1022-ND	68.63	64.05	61.77	P51-100-G-A-I36-5V-R
200	G	1/4	734-1023-ND	68.63	64.05	61.77	P51-200-G-A-I36-5V-R
300	G	1/4	734-1024-ND	68.63	64.05	61.77	P51-300-G-A-I36-5V-R
15	G	1/8	734-1025-ND	68.63	64.05	61.77	P51-15-G-B-I36-5V-R
50	G	1/8	734-1026-ND	68.63	64.05	61.77	P51-50-G-B-I36-5V-R
100	G	1/8	734-1027-ND	68.63	64.05	61.77	P51-100-G-B-I36-5V-R
200	G	1/8	734-1028-ND	68.63	64.05	61.77	P51-200-G-B-I36-5V-R
300	G	1/8	734-1029-ND	68.63	64.05	61.77	P51-300-G-B-I36-5V-R
15	A	1/4	734-1060-ND	68.63	64.05	61.77	P51-15-A-A-I36-5V-R
50	A	1/4	734-1061-ND	68.63	64.05	61.77	P51-50-A-A-I36-5V-R
100	A	1/4	734-1062-ND	68.63	64.05	61.77	P51-100-A-A-I36-5V-R
500	A	1/4	734-1063-ND	68.63	64.05	61.77	P51-500-A-A-I36-5V-R
1000	A	1/4	734-1064-ND	68.63	64.05	61.77	P51-1000-A-A-I36-5V-R
15	A	1/8	734-1065-ND	68.63	64.05	61.77	P51-15-A-B-I36-5V-R
50	A	1/8	734-1066-ND	68.63	64.05	61.77	P51-50-A-B-I36-5V-R
100	A	1/8	734-1067-ND	68.63	64.05	61.77	P51-100-A-B-I36-5V-R
500	A	1/8	734-1068-ND	68.63	64.05	61.77	P51-500-A-B-I36-5V-R
1000	A	1/8	734-1069-ND	68.63	64.05	61.77	P51-1000-A-B-I36-5V-R
15	S	1/4	734-1100-ND	68.63	64.05	61.77	P51-15-S-A-I36-5V-R
50	S	1/4	734-1101-ND	68.63	64.05	61.77	P51-50-S-A-I36-5V-R
100	S	1/4	734-1102-ND	68.63	64.05	61.77	P51-100-S-A-I36-5V-R
500	S	1/4	734-1103-ND	68.63	64.05	61.77	P51-500-S-A-I36-5V-R
1000	S	1/4	734-1104-ND	68.63	64.05	61.77	P51-1000-S-A-I36-5V-R
15	S	1/8	734-1105-ND	68.63	64.05	61.77	P51-15-S-B-I36-5V-R
50	S	1/8	734-1106-ND	68.63	64.05	61.77	P51-50-S-B-I36-5V-R
100	S	1/8	734-1107-ND	68.63	64.05	61.77	P51-100-S-B-I36-5V-R
500	S	1/8	734-1108-ND	68.63	64.05	61.77	P51-500-S-B-I36-5V-R
1000	S	1/8	734-1109-ND	68.63	64.05	61.77	P51-1000-S-B-I36-5V-R
4 ~ 20 mA_{OUT} — 8 ~ 30 V_{IN}							
15	G	1/4	734-1030-ND	68.63	64.05	61.77	P51-15-G-A-I36-20MA-R
50	G	1/4	734-1031-ND	68.63	64.05	61.77	P51-50-G-A-I36-20MA-R
100	G	1/4	734-1032-ND	68.63	64.05	61.77	P51-100-G-A-I36-20MA-R
200	G	1/4	734-1033-ND	68.63	64.05	61.77	P51-200-G-A-I36-20MA-R
300	G	1/4	734-1034-ND	68.63	64.05	61.77	P51-300-G-A-I36-20MA-R
15	G	1/8	734-1035-ND	68.63	64.05	61.77	P51-15-G-B-I36-20MA-R
50	G	1/8	734-1036-ND	68.63	64.05	61.77	P51-50-G-B-I36-20MA-R
100	G	1/8	734-1037-ND	68.63	64.05	61.77	P51-100-G-B-I36-20MA-R
200	G	1/8	734-1038-ND	68.63	64.05	61.77	P51-200-G-B-I36-20MA-R
300	G	1/8	734-1039-ND	68.63	64.05	61.77	P51-300-G-B-I36-20MA-R
15	A	1/4	734-1070-ND	68.63	64.05	61.77	P51-15-A-A-I36-20MA-R
50	A	1/4	734-1071-ND	68.63	64.05	61.77	P51-50-A-A-I36-20MA-R
100	A	1/4	734-1072-ND	68.63	64.05	61.77	P51-100-A-A-I36-20MA-R
500	A	1/4	734-1073-ND	68.63	64.05	61.77	P51-500-A-A-I36-20MA-R
1000	A	1/4	734-1074-ND	68.63	64.05	61.77	P51-1000-A-A-I36-20MA-R
15	A	1/8	734-1075-ND	68.63	64.05	61.77	P51-15-A-B-I36-20MA-R
50	A	1/8	734-1076-ND	68.63	64.05	61.77	P51-50-A-B-I36-20MA-R
100	A	1/8	734-1077-ND	68.63	64.05	61.77	P51-100-A-B-I36-20MA-R
500	A	1/8	734-1078-ND	68.63	64.05	61.77	P51-500-A-B-I36-20MA-R
1000	A	1/8	734-1079-ND	68.63	64.05	61.77	P51-1000-A-B-I36-20MA-R
15	S	1/4	734-1110-ND	68.63	64.05	61.77	P51-15-S-A-I36-20MA-R
50	S	1/4	734-1111-ND	68.63	64.05	61.77	P51-50-S-A-I36-20MA-R
100	S	1/4	734-1112-ND	68.63	64.05	61.77	P51-100-S-A-I36-20MA-R
500	S	1/4	734-1113-ND	68.63	64.05	61.77	P51-500-S-A-I36-20MA-R
1000	S	1/4	734-1114-ND	68.63	64.05	61.77	P51-1000-S-A-I36-20MA-R
15	S	1/8	734-1115-ND	68.63	64.05	61.77	P51-15-S-B-I36-20MA-R
50	S	1/8	734-1116-ND	68.63	64.05	61.77	P51-50-S-B-I36-20MA-R
100	S	1/8	734-1117-ND	68.63	64.05	61.77	P51-100-S-B-I36-20MA-R
500	S	1/8	734-1118-ND	68.63	64.05	61.77	P51-500-S-B-I36-20MA-R
1000	S	1/8	734-1119-ND	68.63	64.05	61.77	P51-1000-S-B-I36-20MA-R

† G = Gauged, A = Absolute, S = Sealed Gauge

MediaGauge™
Digital Pressure Gauges

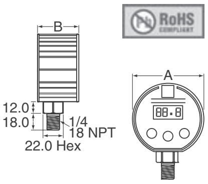

Specifications: • Package: NEMA 4X Rating • Operating Temperature: -10°C ~ 60°C (-14°F ~ 140°F) • Output Type: 4 Digit LCD • Keypad Operated Functions: Auto Zero and Peak Hold • Port: 1/4 - 18 NPT

Additional Specifications:

MG-MD: 4-20mA Current option and High and Low Pressure Set points

MGA-9V: Air Only

Pressure Gauge	Dim. - mm		Accuracy	Digi-Key Part No.	Price Each		SSI Technologies Part No.
	A	B			1	5	
MG-9V (9 Volt Battery)							
5	75.5	44.0	±0.25%	734-1120-ND	180.50	171.00	MG-5-A-9V-R
15	75.5	44.0	±0.25%	734-1121-ND	180.50	171.00	MG-15-A-9V-R
50	75.5	44.0	±0.25%	734-1122-ND	180.50	171.00	MG-50-A-9V-R
75	75.5	44.0	±0.25%	734-1123-ND	180.50	171.00	MG-75-A-9V-R
100	75.5	44.0	±0.25%	734-1124-ND	180.50	171.00	MG-100-A-9V-R
200	75.5	44.0	±0.25%	734-1125-ND	180.50	171.00	MG-200-A-9V-R
300	75.5	44.0	±0.25%	734-1126-ND	180.50	171.00	MG-300-A-9V-R
500	75.5	44.0	±0.25%	734-1127-ND	180.50	171.00	MG-500-A-9V-R
750	75.5	44.0	±0.25%	734-1128-ND	180.50	171.00	MG-750-A-9V-R
1000	75.5	44.0	±0.25%	734-1129-ND	180.50	171.00	MG-1000-A-9V-R
1500	75.5	44.0	±0.25%	734-1130-ND	180.50	171.00	MG-1500-A-9V-R
2000	75.5	44.0	±0.25%	734-1131-ND	180.50	171.00	MG-2000-A-9V-R
3000	75.5	44.0	±0.25%	734-1132-ND	180.50	171.00	MG-3000-A-9V-R
5000	75.5	44.0	±0.25%	734-1133-ND	180.50	171.00	MG-5000-A-9V-R
100	75.5	44.0	±0.25%	734-1148-ND	209.00	198.00	MG-100-A-9V-F-R
200	75.5	44.0	±0.25%	734-1149-ND	209.00	198.00	MG-200-A-9V-F-R
300	75.5	44.0	±0.25%	734-1150-ND	209.00	198.00	MG-300-A-9V-F-R
MG-MD (12 Vdc)							
5	75.5	44.0	±0.25%	734-1134-ND	237.50	225.00	MG-5-A-MD-R
15	75.5	44.0	±0.25%	734-1135-ND	237.50	225.00	MG-15-A-MD-R
50	75.5	44.0	±0.25%	734-1136-ND	237.50	225.00	MG-50-A-MD-R
75	75.5	44.0	±0.25%	734-1137-ND	237.50	225.00	MG-75-A-MD-R
100	75.5	44.0	±0.25%	734-1138-ND	237.50	225.00	MG-100-A-MD-R
200	75.5	44.0	±0.25%	734-1139-ND	237.50	225.00	MG-200-A-MD-R
300	75.5	44.0	±0.25%	734-1140-ND	237.50	225.00	MG-300-A-MD-R
500	75.5	44.0	±0.25%	734-1141-ND	237.50	225.00	MG-500-A-MD-R
750	75.5	44.0	±0.25%	734-1142-ND	237.50	225.00	MG-750-A-MD-R
1000	75.5	44.0	±0.25%	734-1143-ND	237.50	225.00	MG-1000-A-MD-R
1500	75.5	44.0	±0.25%	734-1144-ND	237.50	225.00	MG-1500-A-MD-R
2000	75.5	44.0	±0.25%	734-1145-ND	237.50	225.00	MG-2000-A-MD-R
3000	75.5	44.0	±0.25%	734-1146-ND	237.50	225.00	MG-3000-A-MD-R
5000	75.5	44.0	±0.25%	734-1147-ND	237.50	225.00	MG-5000-A-MD-R
MG1-9V (9 Volt Battery)							
5	63.5	46.0	±1.0%	734-1151-ND	148.20	140.40	MG1-5-A-9V-R
30	63.5	46.0	±1.0%	734-1152-ND	142.00	127.80	MG1-30-A-9V-R
100	63.5	46.0	±1.0%	734-1153-ND	142.00	127.80	MG1-100-A-9V-R
200	63.5	46.0	±1.0%	734-1154-ND	142.00	127.80	MG1-200-A-9V-R
500	63.5	46.0	±1.0%	734-1155-ND	142.00	127.80	MG1-500-A-9V-R
1000	63.5	46.0	±1.0%	734-1156-ND	142.00	127.80	MG1-1000-A-9V-R
3000	63.5	46.0	±1.0%	734-1157-ND	142.00	127.80	MG1-3000-A-9V-R
5000	63.5	46.0	±1.0%	734-1158-ND	142.00	127.80	MG1-5000-A-9V-R
MGA-9V (9 Volt Battery)							
30	63.5	46.0	±1.0%	734-1159-ND	80.00	72.00	MGA-30-A-9V-R
100	63.5	46.0	±1.0%	734-1160-ND	80.00	72.00	MGA-100-A-9V-R
300	63.5	46.0	±1.0%	734-1161-ND	80.00	72.00	MGA-300-A-9V-R

SSI Technologies, Inc.
Controls Division

Digital Fluid-Trac™
Ultrasonic Drum Level Gauge

RoHS COMPLIANT

Description: This drum level gauge is a cost competitive non-contact continuous liquid level drum gauge. Designed for use on 55 gallon vertical drums storing a wide variety of media such as water, waste water, motor oil, hydraulic fluid and diesel fuel. **Features:** • Fits NPT openings (2" or 3/4") • Accurate to 1 gallon with a resolution of +/- 0.5 gallon • Powered by two 9V batteries (not included)

Range	Operating Temperature	Battery Life	Digi-Key Part No.	Price Each 1	5	SSI Technologies Part No.
Up to 32"	0°C ~ 50°C	30 Days	734-1162-ND	125.00	112.50	DFT-100-R

SMC

Pneumatic Automation Components

SMC Corporation is the largest manufacturer in the world of pneumatic automation components. SMC's line of fluid power and pneumatic instrumentation products include vacuum and pressure sensors, switches, gauges, electro-pneumatic regulators and digital flow switches/sensors for air, water and chemicals.

RoHS COMPLIANT

Fig. 1

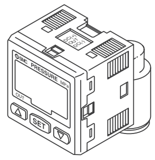

Fig. 2

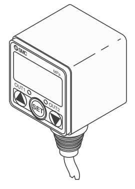

Fig. 3

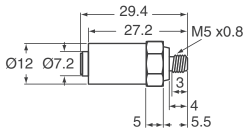

Fig. 4

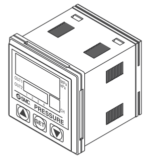

Fig. 5

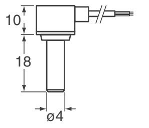

Fig. 6

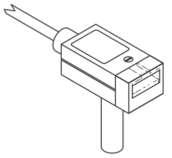

Fig. 7

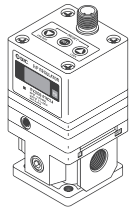

Fig. 8

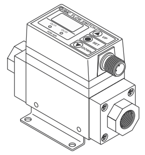

Fig. 9

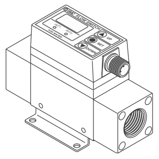

Fig. 10

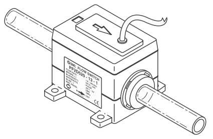

Fig.	Pressure Range	Proof Pressure	Pressure Type	Port	Supply Voltage (VDC)	Max. Supply Current (mA)	Output	Operating Temperature °C	Digi-Key Part No.	Price Each	SMC Part No.
						ZSE30/ISE30 Series — 2-Color Display					
1	-100 ~ 100kPa	500kPa	Vacuum	NPT 1/8"	12 ~ 24	45	PNP	0 ~ 50	606-1006-ND	109.73	ZSE30-T1-65
	-100 ~ 100kPa	500kPa	Vacuum	NPT 1/8"	12 ~ 24	45	NPN	0 ~ 50	606-1007-ND	109.73	ZSE30-T1-25
	0.0 ~ 1.0MPa	1.5MPa	Pressure	NPT 1/8"	12 ~ 24	45	PNP	0 ~ 50	606-1001-ND	109.73	ISE30-T1-65
	0.0 ~ 1.0MPa	1.5MPa	Pressure	NPT 1/8"	12 ~ 24	45	NPN	0 ~ 50	606-1000-ND	109.73	ISE30-T1-25
	-100 ~ 100kPa	500kPa	Vacuum	ø1/4" One Touch	12 ~ 24	45	PNP	0 ~ 50	606-1008-ND	112.96	ZSE30-N7L-65
	-100 ~ 100kPa	500kPa	Vacuum	ø1/4" One Touch	12 ~ 24	45	NPN	0 ~ 50	606-1009-ND	112.96	ZSE30-N7L-25
	0.0 ~ 1.0MPa	1.5MPa	Pressure	ø1/4" One Touch	12 ~ 24	45	PNP	0 ~ 50	606-1002-ND	115.19	ISE30-N7L-65
	0.0 ~ 1.0MPa	1.5MPa	Pressure	ø1/4" One Touch	12 ~ 24	45	NPN	0 ~ 50	606-1003-ND	115.19	ISE30-N7L-25
						ZSE40/ISE40 Series					
2	0.0 ~ 101.3kPa	500kPa	Vacuum	NPT 1/8"	12 ~ 24	55	PNP x 2, 1 ~ 5V	0 ~ 50	606-1011-ND	136.92	ZSE40-T1-62
	0.0 ~ 101.3kPa	500kPa	Vacuum	NPT 1/8"	12 ~ 24	55	NPN x 2, 1 ~ 5V	0 ~ 50	606-1010-ND	136.92	ZSE40-T1-22
	0.0 ~ 1.0MPa	1.5MPa	Pressure	NPT 1/8"	12 ~ 24	55	PNP x 2, 1 ~ 5V	0 ~ 50	606-1004-ND	136.92	ISE40-T1-62
	0.0 ~ 1.0MPa	1.5MPa	Pressure	NPT 1/8"	12 ~ 24	55	NPN x 2, 1 ~ 5V	0 ~ 50	606-1005-ND	136.92	ISE40-T1-22
						PSE530 Series — Remote Type Sensor					
3	0.0 ~ 1.0MPa	1.5MPa	Pressure	M5 x 0.8"	12 ~ 24	15	1 ~ 5V	0 ~ 50	606-1019-ND	61.20	PSE530-M5
	0.0 ~ 101kPa	500kPa	Vacuum	M5 x 0.8"	12 ~ 24	15	1 ~ 5V	0 ~ 50	606-1020-ND	61.20	PSE531-M5
						PSE200 Series — Multi-channel Controller					
4	—	—	—	—	12 ~ 24	55	NPN x 5	0 ~ 50	606-1016-ND	178.19	PSE200
	—	—	—	—	12 ~ 24	55	PNP x 5	0 ~ 50	606-1017-ND	178.19	PSE201
						PSE540 Series — Compact, 2-Color Display, Remote Type Sensor					
5	0.0 ~ 101kPa	500kPa	Vacuum	ø4" Plug-in Reducer	12 ~ 24	15	1 ~ 5V	0 ~ 50	606-1021-ND	64.74	PSE541-R04
	-100 ~ 100kPa	500kPa	Pressure	ø4" Plug-in Reducer	12 ~ 24	15	1 ~ 5V	0 ~ 50	606-1022-ND	64.74	PSE543-R04
						PS1000/PS1100 Series — Electronic Air Checker					
6	-100 ~ 450kPa	1MPa	Pressure	ø6" Reducer	12 ~ 24	40	NPN	0 ~ 60	606-1024-ND	64.55	PS1000-R06L
	-100 ~ 400kPa	1MPa	Vacuum	ø6" Reducer	12 ~ 24	40	NPN	0 ~ 60	606-1025-ND	64.55	PS1100-R06L
						ITV2000 Series — Electro-pneumatic Regulator					
7	.005 ~ 0.5MPa	1.0MPa	Gauge	NPT 1/4"	24	120	4-20mA	0 ~ 50	606-1026-ND	398.48	ITV2030-01N2L4
	.005 ~ 0.5MPa	1.0MPa	Gauge	NPT 1/4"	24	120	4-20mA	0 ~ 50	606-1027-ND	427.52	ITV2030-04N2L4
	.005 ~ 0.5MPa	1.0MPa	Gauge	NPT 1/4"	24	120	4-20mA	0 ~ 50	606-1028-ND	398.48	ITV2030-31N2L4
	.005 ~ 0.9MPa	1.0MPa	Gauge	NPT 1/4"	24	120	4-20mA	0 ~ 50	606-1029-ND	398.48	ITV2050-01N2L4
	.005 ~ 0.9MPa	1.0MPa	Gauge	NPT 1/4"	24	120	4-20mA	0 ~ 50	606-1030-ND	427.52	ITV2050-04N2L4
	.005 ~ 0.9MPa	1.0MPa	Gauge	NPT 1/4"	24	120	4-20mA	0 ~ 50	606-1031-ND	398.48	ITV2050-31N2L4
Mounting Bracket for ISE30/ZSE30 with Mounting Screws									606-1012-ND	4.19	ZS-27-B
Panel Mount Kit for ISE30/ZSE30 with Mounting Screws									606-1013-ND	4.19	ZS-27-C
Mounting Bracket for ISE40/ZSE40 with Mounting Screws									606-1014-ND	7.88	ZS-24-A
Panel Mount Kit for ISE40/ZSE40									606-1015-ND	5.78	ZS-22-A
Panel Mount Adapter for PSE200 Waterproof Seal, with Mounting Screws									606-1018-ND	14.98	ZS-26-C
3 Meter Sensor Cable for PSE530/531									606-1023-ND	13.38	ZS-26-F

Fig.	Flow Rate Liters/Minute	Pressure Type	Port	Supply Voltage (VDC)	Max. Supply Current (mA)	Output	Operating Temperature °C	Digi-Key Part No.	Price Each	SMC Part No.
					PF2A Series — Digital Air Flow Switch					
8	5 ~ 50	Gauge	NPT 1/4"	12 ~ 24	150	NPN	0 ~ 50	606-1032-ND	556.50	PF2A750-N02-27
	5 ~ 50	Gauge	NPT 1/4"	12 ~ 24	150	PNP	0 ~ 50	606-1034-ND	556.50	PF2A750-N02-67
	50 ~ 500	Gauge	NPT 1/2"	12 ~ 24	170	NPN	0 ~ 50	606-1033-ND	556.50	PF2A751-N04-27
	50 ~ 500	Gauge	NPT 1/2"	12 ~ 24	170	PNP	0 ~ 50	606-1035-ND	556.50	PF2A751-N04-67
					PF2W Series — Digital Water Flow Switch					
9	2 ~ 16	Gauge	NPT 1/2"	12 ~ 24	70	NPN	0 ~ 50	606-1036-ND	604.36	PF2W720-N04-27
	2 ~ 16	Gauge	NPT 1/2"	12 ~ 24	70	PNP	0 ~ 50	606-1038-ND	604.36	PF2W720-N04-67
	10 ~ 100	Gauge	NPT 3/4"	12 ~ 24	80	NPN	0 ~ 50	606-1037-ND	711.08	PF2W711-N06-27
	10 ~ 100	Gauge	NPT 3/4"	12 ~ 24	80	PNP	0 ~ 50	606-1039-ND	711.08	PF2W711-N06-67
					PF2D Series — Digital Deionized Water or Chemical Flow Switch					
10	1.8 ~ 20	Gauge	1/2"	12 ~ 24	20	1 ~ 5V	0 ~ 50	606-1040-ND	688.46	PF2D520-13-1
	1.8 ~ 20	Gauge	1/2"	12 ~ 24	20	4-20mA	0 ~ 50	606-1041-ND	688.46	PF2D520-13-2

freescale
semiconductor

Sensors

Dim. in mm

Fig. 1

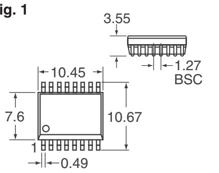

Fig. 2

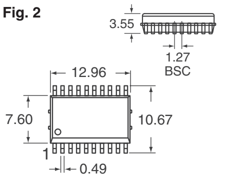

Fig. 3

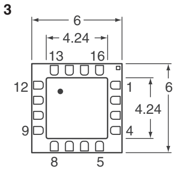

Fig. 4

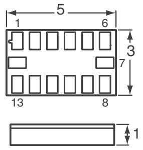

Fig. 5

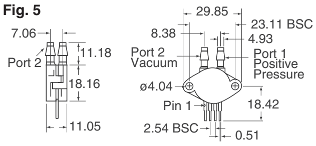

1:GND 3: Vs
2: +Vout 4: -Vout

Fig. 6

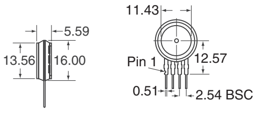

1: GND 3: Vs
2: +Vout 4: -Vout

Fig. 7

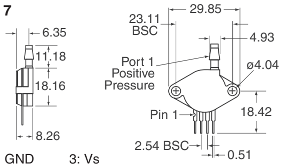

1: GND 3: Vs
2: +Vout 4: -Vout

Fig. 8

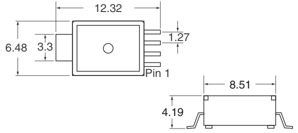

1: Ground 3: Vs
2: Vout 4: -Vout

Fig. 9

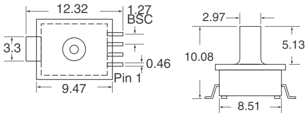

1: Ground 3: Vs
2: +Vout 4: -Vout

Fig. 10

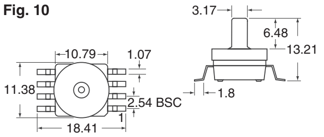

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 11

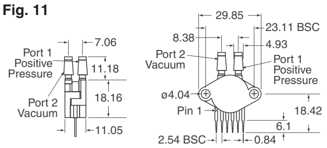

1: Vout 2: GND 3: Vs
4: NC 5: NC 6: NC

Fig. 12

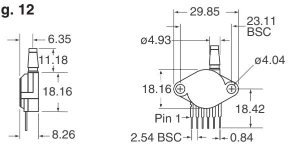

1: Vout 3: Vcc 5: V2
2: GND 4: V1 6: Vex

Fig. 13

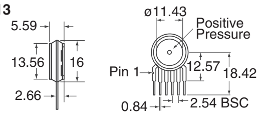

1: Vout 3: Vs 5: NC
2: GND 4: NC 6: NC

Fig. 14

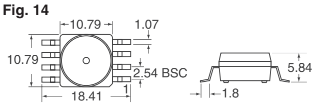

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 15

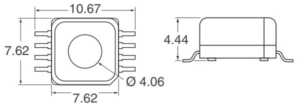

Fig. 16

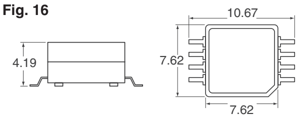

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 17

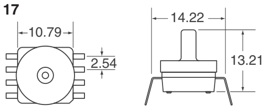

1: GND 3: Vs 5: N/C 7: N/C
2: +Vout 4: -Vout 6: N/C 8: N/C

Fig. 18

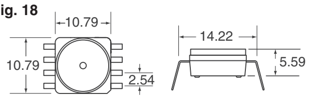

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 19

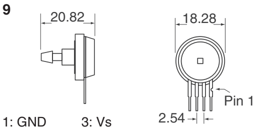

1: GND 3: Vs
2: +Vout 4: -Vout

Fig. 20

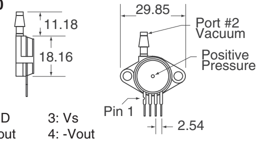

1: GND 3: Vs
2: +Vout 4: -Vout

Fig. 21

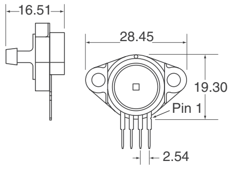

Fig. 22

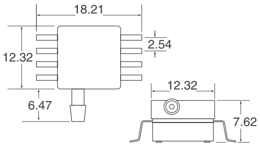

1: GND 3: Vs 5: N/C 7: N/C
2: +Vout 4: -Vout 6: N/C 8: N/C

Fig. 23

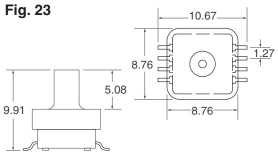

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 24

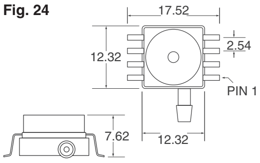

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 25

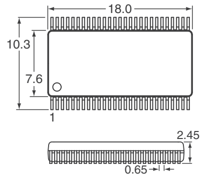

Accelerometers

Supply (typ.): 5.0VDC

Fig.	Supply (VDC)	Acceleration Range (g) Typ.	Sensitivity (mV/g/V)	Rolloff Frequency (Hz)	Sensing Axis	Zero g Output (V_{DD} = 5V)*	Package	Operating Temp. (°C)	Digi-Key Part No.	Price Each 1	25	100
1	4.75 ~ 5.25	1.5	1200	50	X	2.5V	16-SOIC	-40 ~ 105	MMA2260EG-ND◆	11.51	10.56	9.12
	4.75 ~ 5.25	45	10	400	X	2.5V	16-SOIC	-40 ~ 105	MMA2201D-ND	15.34	11.60	10.70
	4.75 ~ 5.25	56.3	8	400	X	2.5V	16-SOIC	-40 ~ 125	MMA2202EG-ND◆	11.51	10.56	9.12
	4.75 ~ 5.25	112.5	4	400	X	2.5V	16-SOIC	-40 ~ 125	MMA2204D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	112.5	4	400	X	2.5V	16-SOIC	-40 ~ 125	MMA2204EG-ND◆	11.51	10.56	9.64
	4.75 ~ 5.25	281	1.6	400	X	2.5V	16-SOIC	-40 ~ 125	MMA2300D-ND	15.34	11.60	10.70
	4.75 ~ 5.25	40	50	400	X	2.5V	16-SOIC	-40 ~ 105	MMA2201EG-ND◆	11.51	10.56	9.64
	4.75 ~ 5.25	40	50	400	X	2.5V	16-SOIC	-40 ~ 105	MMA2201EGR2CT-ND§◆	11.51	10.52	9.62
	4.75 ~ 5.25	40	50	400	X	2.5V	16-SOIC	-40 ~ 105	MMA2201EGR2TR-NDΔ◆	8654.40/1,000		
	4.75 ~ 5.25	200	10	400	X	2.5V	16-SOIC	-40 ~ 125	MMA2301EG-ND◆	11.51	10.56	9.64
	4.75 ~ 5.25	200	10	400	X	2.5V	16-SOIC	-40 ~ 125	MMA2301EGR2-ND◆	8654.40/1,000		
	4.75 ~ 5.25	2.5	750	50	Z	2.5V	16-SOIC	-40 ~ 105	MMA1270D-ND	15.34	11.60	10.70
	4.75 ~ 5.25	2.5	750	50	Z	2.5V	16-SOIC	-40 ~ 105	MMA1270EG-ND◆	11.51	10.56	9.64
	4.75 ~ 5.25	2.5	750	50	Z	2.5V	16-SOIC	-40 ~ 105	MMA1270EGR2CT-ND§◆	11.51	9.62	9.02
	4.75 ~ 5.25	2.5	750	50	Z	2.5V	16-SOIC	-40 ~ 105	MMA1270EGR2TR-NDΔ◆	8654.00/1,000		
	4.75 ~ 5.25	5	400	50	Z	2.5V	16-SOIC	-40 ~ 125	MMA1250D-ND	15.34	11.60	10.70
	4.75 ~ 5.25	100	20	400	Z	2.5V	16-SOIC	-40 ~ 125	MMA1210EG-ND◆	11.51	10.56	9.12
	4.75 ~ 5.25	100	20	400	Z	2.5V	16-SOIC	-40 ~ 125	MMA1210EGR2CT-ND§◆	11.51	10.52	9.62
	4.75 ~ 5.25	100	20	400	Z	2.5V	16-SOIC	-40 ~ 125	MMA1210EGR2TR-NDΔ◆	8654.40/1,000		
	4.75 ~ 5.25	169	13	400	Z	2.5V	16-SOIC	-40 ~ 125	MMA1211D-ND	15.34	11.60	10.70
	4.75 ~ 5.25	169	2.667	400	Z	2.5V	16-SOIC	-40 ~ 125	MMA1211EG-ND◆	11.51	10.56	9.64
	4.75 ~ 5.25	225	2	400	Z	2.5V	16-SOIC	-40 ~ 125	MMA1212D-ND	15.34	11.60	10.70
	4.75 ~ 5.25	225	2	400	Z	2.5V	16-SOIC	-40 ~ 125	MMA1212EG-ND◆	11.51	10.56	9.64
	4.75 ~ 5.25	50	40	400	Z	2.5V	16-SOIC	-40 ~ 125	MMA1213EG-ND◆	11.51	10.56	9.12
	4.75 ~ 5.25	50	40	400	Z	2.5V	16-SOIC	-40 ~ 125	MMA1213EGR2-ND◆	8654.40/1,000		
	4.75 ~ 5.25	281	1.6	400	Z	2.5V	16-SOIC	-40 ~ 125	MMA1200EG-ND◆	11.51	10.56	9.64
	4.75 ~ 5.25	8	250	250	Z	2.5V	16-SOIC	-40 ~ 125	MMA1220EG-ND◆	11.51	10.56	9.12

* The device can measure both +/- acceleration. With no input acceleration the output is at midsupply. For positive acceleration the output will increase above $V_{DD}/2$ and for negative acceleration the output will decrease below $V_{DD}/2$. ◆ ***RoHS Compliant*** § Cut Tape Δ Tape and Reel † V_{DD} = 3.3V ‡ V_{DD} = 2.8V

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	Supply (VDC)	Acceleration Range (g) Typ.	Sensitivity (mV/g/V)	Rolloff Frequency (Hz)	Sensing Axis	Zero g Output (V_{DD} = 5V)*	Package	Operating Temp. (°C)	Digi-Key Part No.	Price Each 1	25	100
1	4.75 ~ 5.25	8	250	250	Z	2.5V	16-SOIC	-40 ~ 125	MMA1220EGR2CT-ND§◆	11.51	10.52	9.62
	4.75 ~ 5.25	8	250	250	Z	2.5V	16-SOIC	-40 ~ 125	MMA1220EGR2TR-NDΔ◆	8654.40/1,000		
	4.75 ~ 5.25	5	400	50	Z	2.5V	16-SOIC	-40 ~ 125	MMA1250EG-ND◆	11.51	10.56	9.64
	4.75 ~ 5.25	5	400	50	Z	2.5V	16-SOIC	-40 ~ 125	MMA1250EGR2CT-ND§◆	11.51	10.52	9.62
	4.75 ~ 5.25	5	400	50	Z	2.5V	16-SOIC	-40 ~ 125	MMA1250EGR2TR-NDΔ◆	8654.40/1,000		
2	4.75 ~ 5.25	45	10	400	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3201D-ND	15.34	11.60	10.70
	4.75 ~ 5.25	40 (X) 40 (Y)	50 / 50	400	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3201EG-ND◆	11.51	10.56	9.64
	4.75 ~ 5.25	40 (X) 40 (Y)	50 / 50	400	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3201EGR2CT-ND§◆	11.51	10.52	9.62
	4.75 ~ 5.25	40 (X) 40 (Y)	50 / 50	400	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3201EGR2TR-NDΔ◆	8654.40/1,000		
	4.75 ~ 5.25	100 (X) / 50 (Y)	20 / 40	400	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3202EG-ND◆	11.51	10.56	9.64
	4.75 ~ 5.25	100 (X) / 50 (Y)	20 / 40	400	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3202EGR2CT-ND§◆	11.51	10.52	9.62
	4.75 ~ 5.25	100 (X) / 50 (Y)	20 / 40	400	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3202EGR2TR-NDΔ◆	8654.40/1,000		
	4.75 ~ 5.25	50 (X) / 20 (Y)	50 / 50	400	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3221EG-ND◆	11.51	10.56	9.64
	4.75 ~ 5.25	50 (X) / 20 (Y)	50 / 50	400	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3221EGR2CT-ND§◆	11.51	9.62	9.02
	4.75 ~ 5.25	50 (X) / 20 (Y)	50 / 50	400	X-Y	2.5V	20-SOIC	-40 ~ 125	MMA3221EGR2TR-NDΔ◆	8654.00/1,000		
3	2.7 ~ 3.6	1.5	800	300	X-Y	1.65V†	16-QFN	-20 ~ 85	MMA6261Q-ND	6.37	5.25	4.80
	2.7 ~ 3.6	1.5	800	150	X-Y	1.65V†	16-QFN	-20 ~ 85	MMA6262Q-ND	6.37	5.25	4.80
	2.7 ~ 3.6	1.5	800	900	X-Y	1.65V†	16-QFN	-20 ~ 85	MMA6263Q-ND	6.37	5.25	4.80
	2.2 ~ 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350	X-Y	1.65V†	16-QFN	-20 ~ 85	MMA6270Q-ND◆	11.15	7.96	7.24
	2.2 ~ 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350	X-Y	1.65V†	16-QFN	-20 ~ 85	MMA6270QR2TR-NDΔ◆	3902.00/1,000		
	2.2 ~ 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350	X-Y	1.65V†	16-QFN	-20 ~ 85	MMA6270QT-ND◆	5.75	4.77	4.35
	2.2 ~ 3.6	2.5 / 3.3 / 6.7 / 10	480 / 360 / 180 / 120	350	X-Y	1.65V†	16-QFN	-40 ~ 105	MMA6271QT-ND◆	5.71	4.73	4.32
	2.2 ~ 3.6	2.5 / 3.3 / 6.7 / 10	480 / 360 / 180 / 120	350	X-Y	1.65V†	16-QFN	-40 ~ 105	MMA6271QR2CT-ND§◆	5.71	4.85	4.04
	2.2 ~ 3.6	2.5 / 3.3 / 6.7 / 10	480 / 360 / 180 / 120	350	X-Y	1.65V†	16-QFN	-40 ~ 105	MMA6271QR2TR-NDΔ◆	3874.00/1,000		
	2.2 ~ 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350(X) / 150(Z)	X-Z	1.65V†	16-QFN	-20 ~ 85	MMA6280Q-ND◆	8.92	6.72	6.05
	2.2 ~ 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350(X) / 150(Z)	X-Z	1.65V†	16-QFN	-40 ~ 105	MMA6280QT-ND◆	5.77	4.78	4.37
	2.2 ~ 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350(X) / 150(Z)	X-Z	1.65V†	16-QFN	-20 ~ 85	MMA6280QR2TR-NDΔ◆	3939.00/1,000		
	2.2 ~ 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350(XY) / 150(Z)	X-Y-Z	1.65V†	16-QFN	-20 ~ 85	MMA7260QT-ND◆	3.18	2.64	2.41
	2.2 ~ 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350(XY) / 150(Z)	X-Y-Z	1.65V†	16-QFN	-20 ~ 85	MMA7260QR2TR-NDΔ◆	3917.00/1,000		
	2.2 ~ 3.6	2.5 / 3.3 / 6.7 / 10	480 / 360 / 180 / 120	350(XY) / 150(Z)	X-Y-Z	1.65V†	16-QFN	-40 ~ 105	MMA7261QT-ND◆	5.73	4.75	3.73
	2.2 ~ 3.6	2.5 / 3.3 / 6.7 / 10	480 / 360 / 180 / 120	350(XY) / 150(Z)	X-Y-Z	1.65V†	16-QFN	-20 ~ 85	MMA7261QR2TR-NDΔ◆	3888.00/1,000		
4	2.2 ~ 3.6	4 / 12	308 / 77	400(XY) / 300(Z)	X-Y-Z	1.4V‡	14-LGA	-20 ~ 85	MMA7330LT-ND◆	5.95	4.56	3.45
	2.2 ~ 3.6	3 / 11	440 / 117.8	400(XY) / 300(Z)	X-Y-Z	1.65V†	14-LGA	-20 ~ 85	MMA7340LT-ND◆	5.95	4.19	3.45
	2.2 ~ 3.6	1.5 / 6	800 / 200	400(XY) / 300(Z)	X-Y-Z	1.65V†	14-LGA	-20 ~ 85	MMA7360LT-ND◆	6.10	4.29	3.54
Accelerometer Development Kits												
Accelerometer Evaluation Kit for MMA6270QE									KIT3109MMA6270QE-ND	39.57	—	—
Accelerometer Evaluation Kit for MMA6280QE									KIT3109MMA6280QE-ND	39.57	—	—
Accelerometer Evaluation Kit for MMA7260Q									KIT3109MMA7260QE-ND◆	39.57	—	—
Accelerometer Evaluation Kit for MMA7261QE									KIT3109MMA7261QE-ND	39.20	—	—
Reference Design Kits												
Triax Reference Design 3-Axis for MMA2260D ±1.5g with MMA1260D									RD1986MMA2260D-ND	75.87	61.44	59.45
Sensing Reference Design 3-Axis for MMA7260QT									RD3112MMA7260QE-ND◆	65.17	—	—
Board Reference 3-Axis Accelerometer									RD3152MMA7260Q-ND◆	147.85	—	—

* The device can measure both +/- acceleration. With no input acceleration the output is at midsupply. For positive acceleration the output will increase above VDD/2 and for negative acceleration the output will decrease below VDD/2. ◆ ***RoHS Compliant*** § Cut Tape Δ Tape and Reel † VDD = 3.3V ‡ VDD = 2.8V

Precision Temperature Compensated Pressure Sensors

Operating Temperature Range: -40°C ~ 125°C

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Compensated Temp. Range (°C)	Digi-Key Part No.	Price Each 1	25	100
Unamplified Uncompensated Pressure Sensors											
5	0 ~ 1.45 psi	Differential	35mV	344C-01	3.0	1.0ms	—	MPX10DP-ND	10.95	9.17	8.24
6	0 ~ 1.45 psi	Differential	35mV	344-15	3.0	1.0 ms	—	MPX10D-ND	10.95	9.17	8.24
7	0 ~ 1.45 psi	Gauge	35mV	344B-01	3.0	1.0ms	—	MPX10GP-ND	10.95	9.17	8.24
17	0 ~ 1.45 psi	Gauge	35mV	482C-03	3.0	1.0ms	—	MPXV10GC7U-ND	10.05	9.23	8.42
5	0 ~ 1.45 psi	Differential	55mV	344C-01	3.0	1.0ms	—	MPX12DP-ND	10.95	10.05	9.17
7	0 ~ 1.45 psi	Gauge	55mV	344B-01	3.0	1.0ms	—	MPX12GP-ND	10.95	9.17	7.64
5	0 ~ 7.25 psi	Differential	60mV	344C-01	3.0	1.0ms	—	MPX53DP-ND	10.95	10.05	9.17
Unamplified Temperature Compensated Pressure Sensors											
6	0 ~ 1.45 psi	Differential	25mV	344-15	10.0	1.0ms	0 ~ 85	MPX2010D-ND	11.22	9.40	7.83
5	0 ~ 1.45 psi	Differential	25mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2010DP-ND	11.22	9.40	8.44
7	0 ~ 1.45 psi	Gauge	25mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2010GP-ND	11.22	10.30	9.40
19	0 ~ 1.45 psi	Gauge	25mV	344E-01	10.0	1.0ms	0 ~ 85	MPX2010GS-ND	11.22	9.40	8.44
8	0 ~ 1.45 psi	Differential	25mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2010D-ND	9.55	7.91	7.22
9	0 ~ 1.45 psi	Gauge	25mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2010GS-ND	9.55	7.91	7.22
22	0 ~ 1.45 psi	Gauge	25mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2010GP-ND	10.05	8.42	7.01
7	0 ~ 7.25 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2050GP-ND	11.22	9.40	8.44
5	0 ~ 7.25 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2053DP-ND	12.50	10.47	9.41
7	0 ~ 7.25 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2053GP-ND	11.22	9.40	8.44
8	0 ~ 7.25 psi	Differential	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2053D-ND	9.55	7.91	7.22
9	0 ~ 7.25 psi	Gauge	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2053GS-ND	9.55	7.91	6.21
22	0 ~ 7.25 psi	Gauge	40mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2053GP-ND	10.05	8.42	7.01
6	0 ~ 14.5 psi	Absolute	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2100A-ND	11.22	9.40	8.44
7	0 ~ 14.5 psi	Absolute	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2100AP-ND	11.22	9.40	8.44
6	0 ~ 14.5 psi	Differential	40mV	344-01	10.0	1.0ms	0 ~ 85	MPX2100D-ND	11.22	9.40	7.83
5	0 ~ 14.5 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2100DP-ND	11.22	9.40	8.44
7	0 ~ 14.5 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2100GP-ND	11.22	9.40	7.83
6	0 ~ 14.5 psi	Absolute	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2102A-ND	11.22	9.40	7.83
7	0 ~ 14.5 psi	Absolute	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2102AP-ND	11.22	9.40	8.44
21	0 ~ 14.5 psi	Absolute	40mV	344F-01	10.0	1.0ms	0 ~ 85	MPX2102ASX-ND	11.22	9.40	8.44
5	0 ~ 14.5 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2102DP-ND	11.22	9.40	8.44
7	0 ~ 14.5 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2102GP-ND	12.75	9.65	8.90
20	0 ~ 14.5 psi	Gauge	40mV	344D-01	10.0	1.0ms	0 ~ 85	MPX2102GVP-ND	11.22	9.40	8.44
22	0 ~ 14.5 psi	Gauge	40mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2102GP-ND	10.05	8.42	7.01
8	0 ~ 14.5 psi	Absolute	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2102A-ND	9.55	6.52	6.21
9	0 ~ 14.5 psi	Absolute	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2102AS-ND	9.55	7.91	6.21
8	0 ~ 14.5 psi	Differential	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2102D-ND	11.49	8.69	8.01
9	0 ~ 14.5 psi	Gauge	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2102GS-ND	9.55	7.91	6.21
6	0 ~ 29 psi	Absolute	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2200A-ND	11.22	9.40	8.44
7	0 ~ 29 psi	Absolute	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2200AP-ND	11.22	9.40	8.44
6	0 ~ 29 psi	Differential	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2200D-ND	11.22	9.40	8.44
5	0 ~ 29 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2200DP-ND	11.22	9.40	8.44
22	0 ~ 29 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2200GP-ND	11.22	9.40	8.44
21	0 ~ 29 psi	Absolute	40mV	344F-01	10.0	1.0ms	0 ~ 85	MPX2202ASX-ND	11.22	9.40	8.44
6	0 ~ 29 psi	Differential	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2202D-ND	16.66	12.60	11.62
5	0 ~ 29 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2202DP-ND	11.22	9.40	8.44

* Response time is defined as the time for the incremental change in output to go from 10% to 90% of its final value when subjected to a specified step change in pressure. ◆ ***RoHS Compliant***

(Continued)

Sensors

Precision Temperature Compensated Pressure Sensors *(Cont.)*

Operating Temperature Range: -40°C ~ 125°C

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Compensated Temp. Range (°C)	Digi-Key Part No.	Price Each 1	25	100
7	0 ~ 29 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2202GP-ND	11.22	8.49	7.83
8	0 ~ 29 psi	Absolute	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2202A-ND	9.55	7.91	7.22
9	0 ~ 29 psi	Absolute	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2202AS-ND	9.55	7.91	6.21
8	0 ~ 29 psi	Differential	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2202D-ND	9.55	7.91	7.22
9	0 ~ 29 psi	Gauge	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2202GS-ND	9.55	7.91	7.22
10	0 ~ 29 psi	Gauge	40mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2202GC6U-ND◆	13.41	10.14	9.35
22	0 ~ 29 psi	Gauge	40mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2202GP-ND	10.05	8.42	7.01
Amplified Temperature Compensated Pressure Sensors											
10	0 ~ 0.57 psi	Gauge	4.9V	482A-01	5.0	—	0 ~ 85	MPXV5004GC6U-ND	14.94	13.71	11.83
14	0 ~ 0.57 psi	Gauge	4.9V	482-01	5.0	—	10 ~ 60	MPXV5004G6U-ND	18.27	14.34	13.50
10	0 ~ 0.57 psi	Gauge	4.9V	482A-01	5.0	—	10 ~ 60	MPXV5004GC6T1CT-ND	14.94	11.30	—
10	0 ~ 0.57 psi	Gauge	4.9V	482A-01	5.0	—	10 ~ 60	MPXV5004GC6T1TR-ND	1123.20/100		
17	0 ~ 0.57 psi	Gauge	4.9V	482C-03	5.0	—	10 ~ 60	MPXV5004GC7U-ND	14.94	12.51	10.42
22	0 ~ 0.57 psi	Gauge	4.9V	1369-01	5.0	—	10 ~ 60	MPXV5004GP-ND	14.94	12.51	10.42
24	0 ~ 0.57 psi	Gauge	4.9V	1368-01	5.0	—	10 ~ 60	MPXV5004GVP-ND	14.94	13.71	12.51
17	0 ~ 0.87 psi	Gauge	4.6V	482C-03	5.0	—	10 ~ 60	MPXV4006GC7U-ND	14.94	12.51	10.42
22	0 ~ 0.87 psi	Gauge	4.6V	1369-01	5.0	—	10 ~ 60	MPXV4006GP-ND	14.94	12.51	10.42
11	0 ~ 1.45 psi	Differential	4.5V	867C-05	5.0	1.0ms	-40 ~ 125	MPX5010DP-ND	14.94	13.71	12.51
12	0 ~ 1.45 psi	Gauge	4.5V	867B-04	5.0	1.0ms	-40 ~ 125	MPX5010GP-ND	14.94	13.71	12.51
13	0 ~ 1.45 psi	Differential	4.5V	867-08	5.0	1.0ms	-40 ~ 125	MPX5010D-ND	18.27	14.34	13.50
22	0 ~ 1.45 psi	Gauge	4.5V	1369-01	5.0	1.0ms	-40 ~ 125	MPXV5010GP-ND	14.94	12.51	10.42
13	0 ~ 7.25 psi	Differential	4.5V	867-08	5.0	1.0ms	-40 ~ 125	MPX5050D-ND	14.94	13.71	12.51
11	0 ~ 7.25 psi	Differential	4.5V	867C-05	5.0	1.0ms	-40 ~ 125	MPX5050DP-ND	14.94	13.71	12.51
12	0 ~ 7.25 psi	Gauge	4.5V	867B-04	5.0	1.0ms	-40 ~ 125	MPX5050GP-ND	14.94	13.71	12.51
22	0 ~ 7.25 psi	Gauge	4.5V	1369-01	5.0	1.0ms	-40 ~ 125	MPXV5050GP-ND	14.94	12.51	10.42
13	0 ~ 11.6 psi	Differential	4.3V	867-08	5.1	—	-40 ~ 105	MPX4080D-ND	14.59	13.39	11.56
12	2.2 ~ 16.7 psi	Absolute	4.7V	867B-04	5.0	1.0ms	0 ~ 85	MPX5100AP-ND	14.94	13.71	12.51
13	0 ~ 14.5 psi	Differential	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5100D-ND	14.94	13.71	12.51
12	0 ~ 14.5 psi	Gauge	4.7V	867B-04	5.0	1.0ms	0 ~ 85	MPX5100GP-ND	14.94	13.71	12.51
10	0 ~ 14.5 psi	Gauge	4.7V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV5100GC6U-ND	14.36	13.18	11.37
13	0 ~ 36.3 psi	Differential	4.7V	867-08	5.1	1.0ms	-40 ~ 125	MPX4250D-ND	14.94	12.51	10.42
11	0 ~ 36.3 psi	Differential	4.7V	867C-05	5.0	1.0ms	-40 ~ 125	MPX4250DP-ND	14.94	12.51	10.42
13	0 ~ 72.5 psi	Differential	4.5V	867-08	5.0	1.0ms	-40 ~ 125	MPX5500D-ND	14.94	13.71	12.51
13	0 ~ 101.5 psi	Differential	4.5V	867-08	5.0	1.0ms	-40 ~ 125	MPX5700D-ND	14.94	13.71	12.51
11	0 ~ 101.5 psi	Differential	4.5V	867C-05	5.0	1.0ms	-40 ~ 125	MPX5700DP-ND	14.94	13.71	12.51
12	0 ~ 101.5 psi	Gauge	4.5V	867B-04	5.0	1.0ms	-40 ~ 125	MPX5700GP-ND	14.94	12.51	10.42
13	0 ~ 150 psi	Differential	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5999D-ND	14.94	13.71	12.51
13	2.2 ~ 15.2 psi	Absolute	4.6V	867-08	5.1	1.0ms	-40 ~ 125	MPX4105A-ND	18.27	14.34	13.50
13	2.2 ~ 16.7 psi	Absolute	4.6V	867-08	5.1	1.0ms	-40 ~ 125	MPX4115A-ND	16.58	12.54	11.57
12	2.2 ~ 16.7 psi	Absolute	4.6V	867B-04	5.1	1.0ms	-40 ~ 125	MPX4115AP-ND	14.94	12.51	10.42
14	2.2 ~ 16.7 psi	Absolute	4.6V	482-01	5.1	1.0ms	-40 ~ 125	MPXA4115A6U-ND	14.36	13.18	11.37
10	2.2 ~ 16.7 psi	Absolute	4.6V	482A-01	5.1	1.0ms	-40 ~ 125	MPXA4115AC6U-ND	14.36	13.18	11.37
13	2.2 ~ 16.7 psi	Absolute	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5100A-ND	14.94	13.71	11.83
14	2.2 ~ 16.7 psi	Absolute	4.5V	482-01	5.0	1.0ms	-40 ~ 125	MPXA6115A6U-ND	14.36	13.18	11.37
10	2.2 ~ 16.7 psi	Absolute	4.5V	482A-01	5.0	1.0ms	-40 ~ 125	MPXA6115AC6U-ND	14.36	13.18	11.37
14	2.2 ~ 16.7 psi	Absolute	4.8V	482-01	5.1	1.0ms	-40 ~ 125	MPXAZ4115A6U-ND	15.09	13.85	12.64
10	2.2 ~ 16.7 psi	Absolute	4.8V	482A-01	5.1	1.0ms	-40 ~ 125	MPXAZ4115AC6U-ND	15.09	13.85	12.64
16	2.2 ~ 16.7 psi	Absolute	4.5V	1317-04	5.0	1.0ms	-40 ~ 125	MPXH6115A6T1CT-ND	15.00	13.50	12.00
16	2.2 ~ 16.7 psi	Absolute	4.5V	1317-04	5.0	1.0ms	-40 ~ 125	MPXH6115A6T1TR-ND	10800.00/1,000		
12	2.2 ~ 16.7 psi	Absolute	4.6V	867B-04	5.1	1.0ms	-40 ~ 125	MPXA4115AP-ND	14.36	13.18	11.37
14	2.2 ~ 16.7 psi	Absolute	4.5V	482-01	5.0	1.0ms	-40 ~ 125	MPXAZ6115A6U-ND	15.09	13.85	12.64
10	2.2 ~ 16.7 psi	Absolute	4.5V	482A-01	5.0	1.0ms	-40 ~ 125	MPXAZ6115AC6U-ND	15.09	13.85	12.64
16	2.2 ~ 16.7 psi	Absolute	4.5V	1317-04	5.0	1.0ms	-40 ~ 125	MPXHZ6115A6U-ND	15.09	13.85	12.64
23	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXHZ6115AC6T1CT-ND	15.09	11.42	10.52
23	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXHZ6115AC6T1TR-ND	3404.16/300		
23	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-03	5.0	1.0ms	-40 ~ 125	MPXHZ6115AC6U-ND	15.09	13.85	12.64
16	2.2 ~ 16.7 psi	Absolute	4.5V	1317-04	5.0	1.0ms	-40 ~ 125	MPXH6115A6U-ND	14.36	13.18	11.37
23	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6115AC6T1CT-ND	14.36	10.86	10.02
23	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6115AC6T1TR-ND	3240.00/300		
23	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6115AC6U-ND	14.36	13.18	11.37
14	2.9 ~ 15.2 psi	Absolute	4.9V	482-01	5.1	1.0ms	-40 ~ 125	MPXAZ4100A6U-ND	15.09	13.85	12.64
10	2.9 ~ 15.2 psi	Absolute	4.9V	482A-01	5.1	1.0ms	-40 ~ 125	MPXAZ4100AC6U-ND	15.09	13.85	12.64
12	2.9 ~ 15.2 psi	Absolute	4.8V	867B-04	5.1	1.0ms	0 ~ 85	MPX4100AP-ND	14.59	12.22	10.18
14	2.9 ~ 15.2 psi	Absolute	4.8V	482-01	5.1	1.0ms	-40 ~ 125	MPXA4100A6U-ND	14.36	13.18	11.37
10	2.9 ~ 15.2 psi	Absolute	4.8V	482A-01	5.1	1.0ms	-40 ~ 125	MPXA4100AC6U-ND	14.36	13.18	11.37
13	2.9 ~ 15.2 psi	Absolute	4.9V	867-08	5.0	1.0ms	-40 ~ 125	MPX4100A-ND	14.59	13.39	11.56
13	2.9 ~ 36.3 psi	Absolute	4.7V	867-08	5.1	1.0ms	-40 ~ 125	MPX4250A-ND	14.94	12.51	10.42
12	2.9 ~ 36.3 psi	Absolute	4.7V	867B-04	5.1	1.0ms	-40 ~ 125	MPX4250AP-ND	14.94	11.30	10.42
14	2.9 ~ 36.3 psi	Absolute	4.7V	482-01	5.1	1.0ms	-40 ~ 125	MPXA4250A6U-ND	14.36	13.18	11.37
10	2.9 ~ 36.3 psi	Absolute	4.7V	482A-01	5.1	1.0ms	-40 ~ 125	MPXA4250AC6U-ND	14.36	13.18	11.37
10	2.18 ~ 14.8 psi	Absolute	4.7V	482A-01	5.1	15.0ms	-40 ~ 125	MPXA4101AC6U-ND	17.57	13.78	12.98
16	2.18 ~ 14.8 psi	Absolute	4.7V	1317-04	5.1	15.0ms	-40 ~ 125	MPXH6101A6T1CT-ND	16.50	15.00	13.50
16	2.18 ~ 14.8 psi	Absolute	4.7V	1317-04	5.1	15.0ms	-40 ~ 125	MPXH6101A6T1TR-ND	10800.00/1,000		
16	2.18 ~ 14.8 psi	Absolute	4.7V	1317-04	5.1	15.0ms	-40 ~ 125	MPXH6101A6U-ND	14.36	13.18	12.03
13	2.18 ~ 101.5 psi	Absolute	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5700A-ND	14.94	13.71	12.51
16	3.0 ~ 36 psi	Absolute	4.7V	1317-04	5.1	1.0ms	-40 ~ 125	MPXH6250A6U-ND	14.36	13.18	11.37
23	3.0 ~ 36 psi	Absolute	4.7V	1317A-01	5.1	1.0ms	-40 ~ 125	MPXH6250AC6U-ND	14.36	13.18	11.37
16	3.0 ~ 42 psi	Absolute	4.6V	1317-04	5.1	1.0ms	-40 ~ 125	MPXH6300A6U-ND	14.36	13.18	11.37
23	3.0 ~ 42 psi	Absolute	4.6V	1317A-01	5.1	1.0ms	-40 ~ 125	MPXH6300AC6U-ND	14.36	13.18	12.03
23	3.0 ~ 58 psi	Absolute	4.6V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6400AC6T1CT-ND	14.36	11.37	10.86
23	3.0 ~ 58 psi	Absolute	4.6V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6400AC6T1TR-ND	3240.00/300		
10	-16.7 ~ 2.2 psi	Differential	4.6V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV4115VC6U-ND	14.36	13.18	11.37
10	-16.7 ~ 2.2 psi	Differential	4.4V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV6115VC6U-ND	14.36	13.18	11.37
10	-7.25 ~ 0 psi	Differential	4.5V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV5050VC6T1CT-ND	14.36	12.03	—
10	-7.25 ~ 0 psi	Differential	4.5V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV5050VC6T1TR-ND	1080.00/100		

* Response time is defined as the time for the incremental change in output to go from 10% to 90% of its final value when subjected to a specified step change in pressure. ◆ ***RoHS Compliant***

Proximity Sensors and Kits

Digi-Reel® RoHS COMPLIANT

Fig.	Supply (VDC)	Supply Current (A)	Operating Temperature (°C)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Freescale Part No.
25	4.75 ~ 5.25	0.7 ~ 1.7	-40 ~ 85	54-SOICW	MC33794EK-ND*	5.75	4.05	3.69	—	—	MC33794EK
	4.75 ~ 5.25	0.7 ~ 1.7	-40 ~ 85	54-SOICW	MC33794EKR2CT-ND	5.75	3.91	3.68	MC33794EKR2TR-ND	3324.00	MC33794EKR2
Demo Kit for MC34940E					DEMO1985MC34940E-ND	76.37	—	—	—	—	DEMO1985MC34940E
Evaluation Kit for MC33941					KITMC33941EVM-ND	111.92	—	—	—	—	KITMC33941EVM

* Bulk

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

ALL SENSORS Pressure Sensors

Fig.	Pressure	Pressure Type	Output	Supply (VDC)	Compensated Temperature	Operating Temperature	Digi-Key Part No.	Price Each 1	25	100	All Sensors Part No.
Amplified with Voltage Reference Low Pressure											
1	0-20	In H_2O	4V	5.5 ~ 16	5°C ~ 50°C	-25°C ~ 85°C	442-1008-ND	99.00	75.00	72.00	20 INCH-G-4V-REF
Amplified Low Pressure											
1	±1	mbar	4V	3 ~ 6	5°C ~ 50°C	-25°C ~ 85°C	442-1011-ND	180.00	126.00	112.50	1 MBAR-D-4V
	±1	In H_2O					442-1012-ND	110.00	77.00	68.75	1 INCH-D-4V
	0-1	In H_2O					442-1013-ND	120.00	84.00	75.00	1 INCH-G-4V
	±5	In H_2O					442-1014-ND	110.00	77.00	68.75	5 INCH-D-4V
	0-5	In H_2O					442-1015-ND	110.00	77.00	68.75	5 INCH-G-4V
	±10	In H_2O					442-1016-ND	110.00	77.00	68.75	10 INCH-D-4V
	0-10	In H_2O					442-1017-ND	110.00	77.00	68.75	10 INCH-G-4V
	0-20	In H_2O					442-1019-ND	110.00	77.00	68.75	20 INCH-G-4V
	±30	In H_2O					442-1020-ND	110.00	77.00	68.75	30 INCH-D-4V
Amplified Middle Pressure											
1	±0.3	PSID	4V	3 ~ 7	5°C ~ 50°C	-25°C ~ 85°C	442-1022-ND	100.00	70.00	62.50	0.3 PSI-D-4V
	0-0.3	PSIG					442-1023-ND	100.00	70.00	62.50	0.3 PSI-G-4V
Barometric Pressure											
1	600-1100	mbar	4V	4.5 ~ 5.5	5°C ~ 50°C	-40°C ~ 125°C	442-1089-ND	100.00	70.00	62.50	BARO-A-4V
2	600-1100	mbar	Digital/ Serial	7	-20°C ~ 85°C	-20°C ~ 105°C	442-1097-ND	280.00	—	—	BARO-DO
					-40°C ~ 125°C	-40°C ~ 125°C	442-1098-ND	540.00	—	—	BARO-DO-MIL
3A	600-1100	mbar	4.5 ~ 5.5V	4.5 ~ 75.5	5°C ~ 50°C	-25°C ~ 85°C	442-1092-ND	110.00	77.00	68.75	BARO-A-4V-MINI
					-25°C ~ 85°C		442-1093-ND	180.00	126.00	112.50	BARO-A-4V-MINI-PRIME
Millivolt Output C-Grade Pressure											
4	0-0.3	PSID	20mV	16	0°C ~ 70°C	-25°C ~ 85°C	442-1029-ND	50.00	35.00	31.25	0.3 PSI-D-CGRADE-MV
	0-1	PSID	18mV				442-1030-ND	50.00	35.00	31.25	1 PSI-D-CGRADE-MV
Millivolt Output H-Grade Pressure											
4	0-1	PSID	18mV	16	0°C ~ 70°C	-25°C ~ 85°C	442-1033-ND	56.00	39.20	35.00	1 PSI-D-HGRADE-MV
	0-5	PSID	60mV				442-1034-ND	44.00	30.80	27.50	5 PSI-D-HGRADE-MV
	0-15	PSID	90mV				442-1035-ND	44.00	30.80	27.50	15 PSI-D-HGRADE-MV
	0-15	PSIA	60mV				442-1036-ND	44.00	30.80	27.50	15 PSI-A-HGRADE-MV
Millivolt Output Low Pressure											
4	0-1	In H_2O	10mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1037-ND	80.00	56.00	50.00	1 INCH-D-MV
	0-5		20mV				442-1038-ND	74.00	51.80	46.25	5 INCH-D-MV
	0-10		20mV				442-1039-ND	74.00	51.80	46.25	10 INCH-D-MV
	0-20		20mV				442-1040-ND	74.00	51.80	46.25	20 INCH-D-MV
	0-30		20mV				442-1041-ND	74.00	51.80	46.25	30 INCH-D-MV
Millivolt Output Prime Grade Pressure											
4	0-0.3	PSID	20mV	16	0°C ~ 70°C	-25°C ~ 85°C	442-1042-ND	64.00	44.80	40.00	0.3 PSI-D-PRIME-MV
	0-1	PSID	18mV				442-1043-ND	64.00	44.80	40.00	1 PSI-D-PRIME-MV
Miniature Basic Offset Compensated Pressure											
3B	0-1	In H2O	4.0 ~ 10.0mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1045-ND	50.00	35.00	31.25	1 INCH-G-BASIC
	0-10		15 ~ 45mV				442-1051-ND	50.00	35.00	31.25	10 INCH-G-BASIC
	0-20		15 ~ 45mV				442-1054-ND	50.00	35.00	31.25	20 INCH-G-BASIC
	0-1		4.0 ~ 10.0mV				442-1046-ND	50.00	35.00	31.25	1 INCH-D1-BASIC
	0-5	In H2O	15 ~ 30mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1049-ND◆	50.00	35.00	31.25	5 INCH-D1-BASIC
	0-10		15 ~ 45mV				442-1052-ND	50.00	35.00	31.25	10 INCH-D1-BASIC
	0-30		15 ~ 45mV				442-1058-ND	50.00	35.00	31.25	30 INCH-D1-BASIC
	0-1		4.0 ~ 10.0mV				442-1047-ND	50.00	35.00	31.25	1 INCH-D2-BASIC
	0-5	In H_2O	15 ~ 30mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1050-ND◆	50.00	35.00	31.25	5 INCH-D2-BASIC
	0-10		15 ~ 45mV				442-1053-ND	50.00	35.00	31.25	10 INCH-D2-BASIC
	0-20		15 ~ 45mV				442-1056-ND	50.00	35.00	31.25	20 INCH-D2-BASIC
	0-30		15 ~ 45mV				442-1059-ND	50.00	35.00	31.25	30 INCH-D2-BASIC
Miniature Low Pressure											
3B	0-5	In H_2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1077-ND	70.00	49.00	43.75	5 INCH-G-MV-MINI
	0-10						442-1080-ND	70.00	49.00	43.75	10 INCH-G-MV-MINI
	0-30						442-1086-ND	70.00	49.00	43.75	30 INCH-G-MV-MINI
	0-5						442-1078-ND	70.00	49.00	43.75	5 INCH-D1-MV-MINI
	0-20						442-1084-ND	70.00	49.00	43.75	20 INCH-D1-MV-MINI
	0-30	In H_2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1087-ND	70.00	49.00	43.75	30 INCH-D1-MV-MINI
	0-5						442-1079-ND	70.00	49.00	43.75	5 INCH-D2-MV-MINI
	0-10						442-1082-ND	70.00	49.00	43.75	10 INCH-D2-MV-MINI
	0-20						442-1085-ND	70.00	49.00	43.75	20 INCH-D2-MV-MINI
	0-30						442-1088-ND	70.00	49.00	43.75	30 INCH-D2-MV-MINI
Miniature H-Grade Pressure											
5	0-4	In H_2O	24 ~ 26mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1060-ND	60.00	42.00	37.50	4 INCH-G-HGRADE-MINI
	0-0.3	PSIG	19 ~ 21mV				442-1063-ND	60.00	42.00	37.50	0.3 PSI-G-HGRADE-MINI
	0-10	In H_2O	19 ~ 21mV				442-1066-ND	60.00	42.00	37.50	10 INCH-G-HGRADE-MINI
	0-1	PSIG	17.82 ~ 18.18mV				442-1069-ND	60.00	42.00	37.50	1 PSI-G-HGRADE-MINI
	0-5	PSIG	59.4 ~ 60.6mV				442-1072-ND	50.00	35.00	31.25	5 PSI-G-HGRADE-MINI
	0-15	PSIA	89.1 ~ 90.9mV				442-1075-ND◆	50.00	35.00	31.25	15 PSI-A-HGRADE-MINI
6	0-4	In H_2O	24 ~ 26mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1061-ND	60.00	42.00	37.50	4 INCH-GF-HGRADE-MINI
	0-0.3	PSIG	19 ~ 21mV				442-1064-ND	60.00	42.00	37.50	0.3 PSI-GF-HGRADE-MINI
	0-10	In H_2O	19 ~ 21mV				442-1067-ND◆	60.00	42.00	37.50	10 INCH-GF-HGRADE-MINI
	0-15	PSIA	89.1 ~ 90.9mV				442-1076-ND	50.00	35.00	31.25	15 PSI-AF-HGRADE-MINI
7	0-4	In H_2O	24 ~ 26mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1062-ND	60.00	42.00	37.50	4 INCH-D-HGRADE-MINI
	0-0.3	PSID	19 ~ 21mV				442-1065-ND	60.00	42.00	37.50	0.3 PSI-D-HGRADE-MINI
	0-1	PSID	17.82 ~ 18.18mV				442-1071-ND	60.00	42.00	37.50	1 PSI-D-HGRADE-MINI

◆ ***RoHS Compliant***

Fig. 1

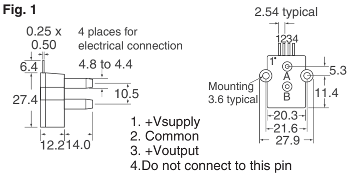

Fig. 2

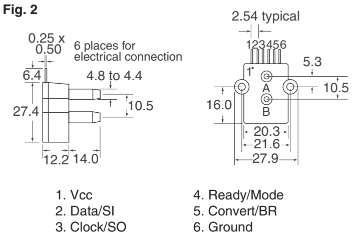

Fig. 3

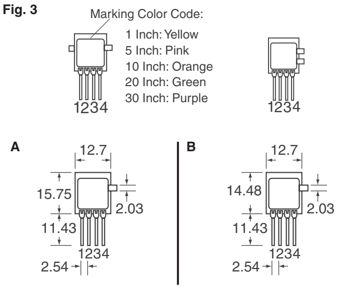

Fig. 4

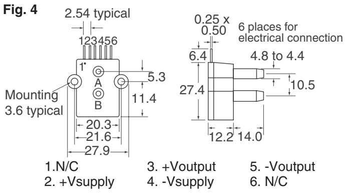

Fig. 5

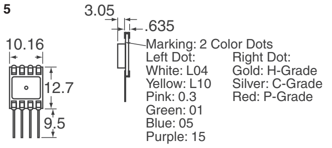

Fig. 6 — Single Pressure Port

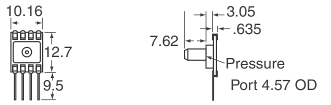

Fig. 7 — Dual Pressure Ports

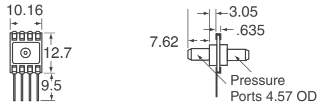

CUI INC Current Sensor

The SCD series current sensors are PC board mounted, Hall effect, open-loop devices which output a voltage equivalent to the magnitude of current sensed.

Capable of detecting DC current and AC currents where ± input currents are represented as a + voltage only.

Pin Assignment	
Pin No.	**Pin Name**
1	+5V
2	NC
3	Output
4	0V
5	Input (+)
6	Input (-)

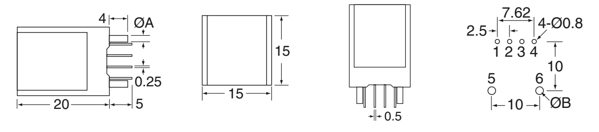

Rated Current	Output Voltage	Supply Voltage	Input Current Polarity	Response	Operating Temperature	Mounting Hole Dimensions øA	øB	Digi-Key Part No.	Price Each 1	10	25	CUI Part No.
+10A	2.3V	5V	+DC only	7µS typ.	-10°C ~ 75°C	1.2	1.7	102-1052-ND	26.03	20.82	16.66	SCD10PUN

LEM Closed/Open Transducers

LTS 6-NP, LTS 15-NP and LTS 25-NP: Closed loop (compensated) multi-range current transducer using the Hall effect, unipolar voltage supply, compact design for PCB mounting, insulated plastic case recognized according to UL94-VO, incorporated measuring resistance, and extended measuring range.

LA 20-PB: Closed loop (compensation) current transducer using the Hall effect, voltage output, and printed circuit board mounting.

LAH 25-NP, LAH 50-P, LAH 100-P, LA 55-P and LA 100-P: Closed loop (compensated) multi-range current transducer using the Hall effect, printed circuit board mounting, insulated plastic case recognized according to UL94-VO.

LA 150-P: Closed loop (compensated) current transducer using the Hall effect, and printed circuit board mounting.

LV 25-P and LV 20-P: Closed loop (compensated) voltage transducer using the Hall effect, and insulated plastic case recognized according to UL94-VO.

HXS xx-NP: Small packaged O/L, ASIC based with +5V supply. Four primary bus bars can be connected in parallel or series for flexibility.

HAIS xx-P: PCB mount with aperture. O/L ASIC based with +5V supply. Range is from 50A thru 400A. Programmable offset and gain. Wide temperature range of -40°C to 125°C.

HAIS xx-TP: PCB mount with primary bus bar. O/L ASIC based with +5V supply. Range is from 50A, 75A and 100A. Programmable offset and gain. Wide temperature range of -40°C to 125°C.

HX xx-P: Small, cost effective PCB mount package that ranges from 3A thru 50A. Isolated with DC/AC/Pulse measurements.

HTB xx-P: PCB mount with aperture. Small package O/L with range form 50A thru 400A. Isolated with DC/AC/Pulse measurements.

HTB xx-TP: PCB mount with primary bus bar. Small package O/L with range of 50A, 75A and 100A. Isolated DC/AC/Pulse measurements.

HAS xx-S: Panel mount O/L. Isolated and can measure DC/AC currents at range of 50A thru 600A. Measuring range to 3 times nominal.

HAS xx-P: PCB mount with aperture. Isolated and can measure DC/AC currents at range of 50A thru 600A. Measuring range to 3 times nominal.

HASS xx-S: Panel mount O/L ASIC based device that can measure DC/AC current at 50A thru 600A. Unipolar +5V supply with accuracy of 1%.

HMS xx-NP: Surface mount O/L ASIC device with +5V supply. Measuring range from 5A thru 25A.

TT xx-SD: Split core transducer for the electronic measurement of AC waveform currents, with galvanic isolation between the primary circuit (power) and the secondary circuit (measurement).

AT xxx B10: Split core transducer for the electronic measurement of AC waveform currents, with galvanic isolation between the primary circuit (power) and the secondary circuit (measurement). 0~10VDC voltage output proportional to the RMS value of the primary current.

APR xxx B10: Split core transducer for the electronic measurement of AC currents (all waveforms). Switch selectable measuring ranges and true RMS 0~5V and 0~10V switch selectable voltage output.

DHR 100 C10: The transducer for the electronic measurement of DC and distorted AC waveform currents. True RMS 0~10V voltage output.

Dim. in mm

Fig. 1

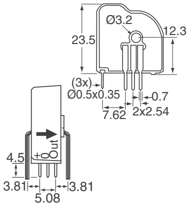

Fig. 2

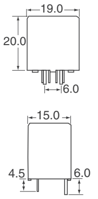

Fig. 3

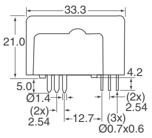

Fig. 4

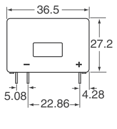

Fig. 5

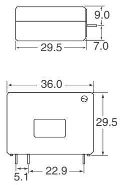

Fig. 6

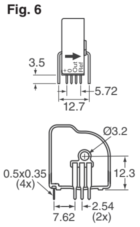

Fig. 7

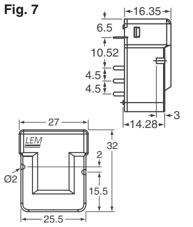

Fig. 8

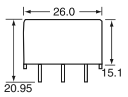

Fig. 9

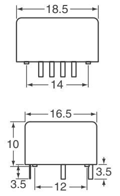

Fig. 10

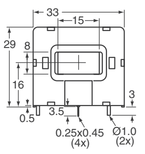

Fig. 11

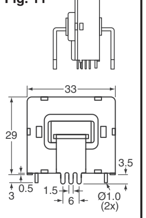

Fig. 12

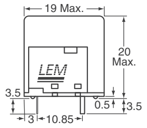

Fig. 13

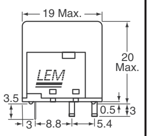

Fig. 14

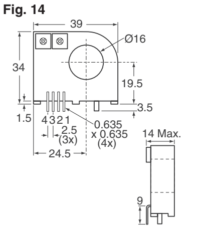

Fig. 15

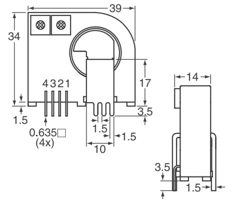

Fig. 16

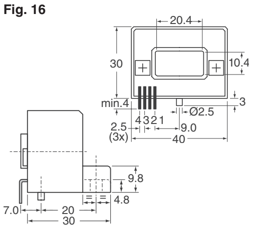

Fig. 17

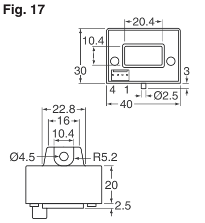

Fig. 18

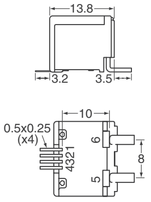

Fig. 19 ***NEW!***

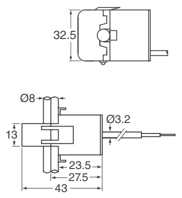

Fig. 20 ***NEW!***

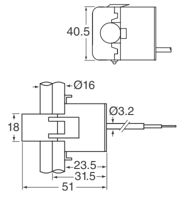

Fig. 21 ***NEW!***

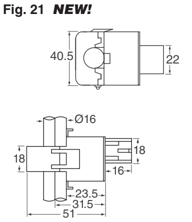

Fig. 22 ***NEW!***

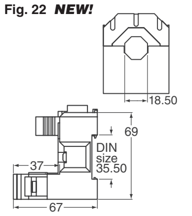

Fig. 23 ***NEW!***

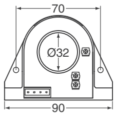

Fig.	Supply Voltage	Prim. Nom. r.m.s. Current	Sec. Nom. r.m.s Current/ Out. Volt.	Frequency Range (kHz)	Digi-Key Part No.	Price Each 1	10	25	LEM USA Inc. Part No.
Closed Loop Current Transducers									
1	5V	6A	±2.5V	200	398-1000-ND◆	20.20	16.16	12.93	LTS 6-NP
	5V	15A	±2.5V	200	398-1001-ND◆	20.20	16.16	12.93	LTS 15-NP
	5V	25A	±2.5V	200	398-1002-ND◆	20.20	16.16	12.93	LTS 25-NP
2	±15V	20A	±4V	150	398-1006-ND	44.38	35.50	28.40	LA 20-PB
3	±12 ~ 15V	25A	25mA	200	398-1007-ND	28.25	22.60	18.08	LAH 25-NP
	±12 ~ 15V	50A	25mA	200	398-1008-ND◆	30.25	24.20	19.36	LAH 50-P
	±12 ~ 15V	100A	50mA	200	398-1009-ND	33.00	26.40	21.12	LAH 100-P
4	±12 ~ 15V	50A	50mA	200	398-1010-ND◆	25.75	20.60	16.48	LA 55-P
	±12 ~ 15V	100A	50mA	200	398-1011-ND◆	32.25	25.80	20.64	LA 100-P
5	±15V	150A	75mA	150	398-1012-ND◆	38.00	30.40	24.32	LA 150-P
6	5V	6A	2.5V	200	398-1021-5-ND◆	22.25	17.80	14.24	LTSR 6-NP
	5V	15A	2.5V	200	398-1022-5-ND◆	22.25	17.80	14.24	LTSR 15-NP
	5V	25A	2.5V	200	398-1023-5-ND◆	22.25	17.80	14.24	LTSR 25-NP
7	±13.58V	100A	50mA	300	398-1024-5-ND◆	20.25	16.20	12.96	LAX 100-NP
Closed Loop Voltage Transducers — RoHS Compliant									
8	±12 ~ 15V	10mA	25mA	25	398-1019-ND	63.20	50.56	40.45	LV 25-P
	±12 ~ 15V	10mA	25mA	25	398-1020-ND	36.60	29.28	23.43	LV 20-P
Open Loop Current Transducers — RoHS Compliant									
9	5V	20A	±2.5V	50	398-1025-5-ND	14.00	11.20	8.96	HXS 20-NP
	5V	50A	±2.5V	50	398-1026-5-ND	14.00	11.20	8.96	HXS 50-NP
10	5V	50A	±2.5V	50	398-1029-ND	25.50	20.40	16.32	HAIS 50-P
	5V	100A	±2.5V	50	398-1030-ND	25.50	20.40	16.32	HAIS 100-P
	5V	150A	±2.5V	50	398-1031-ND	25.50	20.40	16.32	HAIS 150-P
10	5V	200A	±2.5V	50	398-1032-ND	25.50	20.40	16.32	HAIS 200-P
11	5V	50A	±2.5V	50	398-1027-ND	26.50	21.20	16.96	HAIS 50-TP
	5V	100A	±2.5V	50	398-1028-ND	26.50	21.20	16.96	HAIS 100-TP
12	15V	3A	±4V	50	398-1034-ND	14.50	11.60	9.28	HX 03-P
	15V	5A	±4V	50	398-1035-ND	14.50	11.60	9.28	HX 05-P
	15V	10A	±4V	50	398-1036-ND	14.50	11.60	9.28	HX 10-P
	15V	15A	±4V	50	398-1037-ND	14.50	11.60	9.28	HX 15-P
	15V	20A	±4V	50	398-1038-ND	14.50	11.60	9.28	HX 20-P
13	15V	50A	±4V	50	398-1039-ND	18.00	14.40	11.52	HX 50-P
14	±12 ~ 15V	200A	±4V	50	398-1041-ND	25.00	20.00	16.00	HTB 200-P
15	±12 ~ 15V	50A	±4V	50	398-1075-ND	25.88	20.70	16.56	HTB 50-TP
	±12 ~ 15V	100A	±4V	50	398-1077-ND	25.88	20.70	16.56	HTB 100-TP
16	15V	50A	±4V	50	398-1049-ND	25.00	20.00	16.00	HAS 50-S
	15V	100A	±4V	50	398-1050-ND	25.00	20.00	16.00	HAS 100-S
	15V	200A	±4V	50	398-1051-ND	25.00	20.00	16.00	HAS 200-S
	15V	300A	±4V	50	398-1052-ND	26.50	21.20	16.96	HAS 300-S
	15V	400A	±4V	50	398-1053-ND	26.50	21.20	16.96	HAS 400-S
	15V	500A	±4V	50	398-1054-ND	26.50	21.20	16.96	HAS 500-S
	15V	600A	±4V	50	398-1055-ND	26.50	21.20	16.96	HAS 600-S
	15V	300A	±4V	25	398-1045-ND	26.50	21.20	16.96	HAS 300-P
17	5V	50A	5V	50	398-1062-ND	26.00	20.80	16.64	HASS 50-S
	5V	100A	5V	50	398-1063-ND	26.00	20.80	16.64	HASS 100-S
	5V	200A	5V	50	398-1064-ND	26.00	20.80	16.64	HASS 200-S

† Cut Tape ‡ Tape and Reel ◆ ***RoHS Compliant***

(Continued)

Closed/Open Transducers *(Cont.)*

Fig.	Supply Voltage	Prim. Nom. r.m.s. Current	Sec. Nom. r.m.s Current/ Out. Volt.	Frequency Range (kHz)	Digi-Key Part No.	Price Each 1	10	25	LEM USA Inc. Part No.
17	5V	300A	5V	50	398-1065-ND	27.50	22.00	17.60	HASS 300-S
	5V	400A	5V	50	398-1066-ND	27.50	22.00	17.60	HASS 400-S
	5V	500A	5V	50	398-1067-ND	27.50	22.00	17.60	HASS 500-S
	5V	600A	5V	50	398-1068-ND	27.50	22.00	17.60	HASS 600-S
18	5V	5A	5V	50	398-1058-1-ND†	16.98	14.15	11.32	HMS 05-P
					398-1058-2-ND‡	2547.00/300			HMS 05-P
	5V	10A	5V	50	398-1059-1-ND†	16.98	14.15	11.32	HMS 10-P
					398-1059-2-ND‡	2547.00/300			HMS 10-P
	5V	15A	5V	50	398-1060-1-ND†	16.98	14.15	11.32	HMS 15-P
					398-1060-2-ND‡	2547.00/300			HMS 15-P
	5V	20A	5V	50	398-1061-1-ND†	16.98	14.15	11.32	HMS 20-P
					398-1061-2-ND‡	2547.00/300			HMS 20-P

Fig.	Supply Voltage	Prim. Nom. r.m.s. Current	Sec. Nom. r.m.s Current/ Out. Volt.	Frequency Range (kHz)	Digi-Key Part No.	Price Each 1	10	25	LEM USA Inc. Part No.
NEW! AC Split Core Current Transducers — RoHS Compliant NEW!									
19	—	50A	16.66mA	50/60 Hz	398-1078-ND	39.88	31.90	21.54	TT 50-SD
20	—	100A	33.33mA	50/60 Hz	398-1079-ND	45.25	36.20	24.44	TT 100-SD
21	Self-Powered	5A	0~10V	50/60 Hz	398-1080-ND	63.38	50.70	34.23	AT 5 B10
	Self-Powered	20A	0~10V	50/60 Hz	398-1081-ND	81.50	65.20	44.01	AT 20 B10
	Self-Powered	50A	0~10V	50/60 Hz	398-1082-ND	97.88	78.30	52.86	AT 50 B10
	Self-Powered	100A	0~10V	50/60 Hz	398-1083-ND	87.00	69.60	46.98	AT 100 B10
22	24 ± 5%VDC	50A	0~5V/0~10V	30~6000Hz	398-1084-ND	201.50	161.20	108.81	APR 50 B10
	24 ± 5%VDC	200A	0~5V/0~10V	30~6000Hz	398-1085-ND	221.63	177.30	119.68	APR 200 B10
NEW! AC/DC Current Transducers — RoHS Compliant NEW!									
23	20~50VDC	100A	0~10V	20~6000Hz	398-1086-ND	239.38	191.50	129.27	DHR 100 C10

† Cut Tape ‡ Tape and Reel ◆ ***RoHS Compliant***

SMD Current Transducer

The Minisens transducer is an ultra flat SMD open loop integrated circuit current transducer based on the Hall effect principle. The IC is calibrated to minimize offset and temperature drifts. **Advantages:** • Low cost • Excellent Linearity

Max. Curr. Range (A)	Supp. Volt.	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Digi-Key Part No.	T&R Pricing 2,600	LEM USA Inc. Part No.
±100	5V	8-SOIC	398-1057-1-ND	5.28	4.40	3.52	398-1057-2-ND	6864.00/M	FHS 40-P/SP600

Evaluation Kits for FHS 40-P/S600

398-1069-ND	Evaluation Kit with PCB for 0 ~ 30A range, 78A maximum	**$37.20**
398-1070-ND	Evaluation Kit with PCB for 0 ~ 5A range, 16A maximum	**$37.20**
398-1071-ND	Evaluation Kit with PCB for 0 ~ 5A range, 11A maximum	**$37.20**
398-1072-ND	Evaluation Kit with PCB for 0 ~ 10A range, 10A maximum	**$37.20**
398-1073-ND	Evaluation Kit with PCB for 0 ~ 15A range, 55A maximum	**$37.20**
398-1074-ND	Evaluation Kit with PCB for 0 ~ 16A range, 30A maximum	**$37.20**

Current Sensors

Remote Current Indicators — Model 18-600

CR Magnetics Remote Electrical Current Indicators provides an effective method for remote monitoring of electrical current. When the current exceeds the turn-on point of the sensing transformer, the LED illuminates to indicate the presence of current.

Specifications: • **Indicating Range:** 2.5 ~ 100 Amps (1-Wire Pass) • **Minimum turn-on point:** 2.5 Amps • **Maximum Cont. Current:** 100 Amps

Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
582-1036-ND	34.29	29.15	27.43	MODEL 18-600

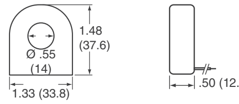

Dimensions in Inch (mm)

Current Indicators — CR2550 Series

The CR2550 series remote current indicators are designed as a low cost method for providing a visual indication of electrical current flow.

Specifications:
• 20 AAC Maximum, 600 VAC Maximum Rating • 50 ~ 1kHz Bandwidth

LED Color	Turn On Point (1 pass) AAC	Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
Red	0.75	582-1003-ND◆	11.50	8.90	8.37	CR2550-R

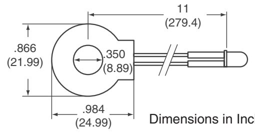

Dimensions in Inch (mm)

NEW! Transducers/Transmitters

CR4100 Series: Designed for applications where AC current waveforms are not purely sinusoidal. These devices are ideal in chopped wave and phase fired control systems.

CR4210 Series: Calibrated to provide a 0~5VDC and 0~10VDC signal that is proportional to the average RMS input AC current.

CR4200 Series: Produces a calibrated 4~20mADC signal that is proportional to the average RMS input AC current. The output signal is generated from a user supplied 24VDC power supply within the output current loop.

CR4400 Series: Designed to provide a DC output proportional to the AC current input.

CR5200 Series: Designed to provide a DC signal which is proportional to a DC sensed current. The ranges 2~10 Amp utilize an advanced Magnetic Modulator technology and the ranges 20 Amps and above utilize Hall Effect technology.

CR4500 Series: Designed for applications where AC voltage waveforms are not purely sinusoidal

CR5300 Series: Designed to provide an output DC signal that is proportional to the input DC voltage.

CR6600 Series: Designed to give a DC output that is proportional to an input frequency value.

Dimensions in Inch (mm)

Fig. 1

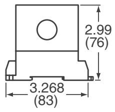

Fig. 2

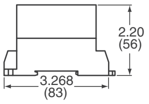

Fig. 3

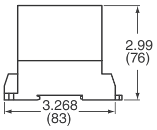

Fig. 4

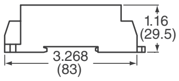

Fig.	Output Range	Input Range	Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
True RMS AC Current Transducers							
1	0~5 VDC	0~10 AAC	582-1046-ND	270.97	232.26	216.78	CR4110-10
	0~5 VDC	0~15 AAC	582-1047-ND	270.97	232.26	216.78	CR4110-15
	0~5 VDC	0~20 AAC	582-1048-ND	270.97	232.26	216.78	CR4110-20
	0~5 VDC	0~25 AAC	582-1049-ND	270.97	232.26	216.78	CR4110-25
	4~20 mADC	0~30 AAC	582-1050-ND	299.76	256.94	239.81	CR4120-30
	4~20 mADC	0~40 AAC	582-1051-ND	299.76	256.94	239.81	CR4120-40
	4~20 mADC	0~75 AAC	582-1052-ND	299.76	256.94	239.81	CR4120-75
Self-Powered AC Current Transducer							
1	0~5 VDC	0~50 AAC	582-1053-ND	151.18	129.59	120.95	CR4210-50
Loop-Powered AC Current Transmitters							
1	4~20 mADC	0~5 AAC	582-1056-ND	134.70	115.46	107.76	CR4220-5
	4~20 mADC	0~10 AAC	582-1054-ND	134.70	115.46	107.76	CR4220-10
	4~20 mADC	0~20 AAC	582-1055-ND	134.70	115.46	107.76	CR4220-20
Average RMS AC Current Transducers							
1	0~5 VDC	0~50 AAC	582-1057-ND	129.59	111.08	103.67	CR4410-50
	4~20 mADC	0~30 AAC	582-1058-ND	145.79	124.97	116.64	CR4420-30

Fig.	Output Range	Input Range	Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
DC Current Transducers							
1	0~5 VDC	0~2 ADC	582-1060-ND	149.73	128.34	119.79	CR5210-2
	0~5 VDC	0~5 ADC	582-1061-ND	149.73	128.34	119.79	CR5210-5
	0~5 VDC	0~10 ADC	582-1059-ND	149.73	128.34	119.79	CR5210-10
	4~20 mADC	0~2 ADC	582-1063-ND	178.26	152.79	142.61	CR5220-2
	4~20 mADC	0~10 ADC	582-1062-ND	178.26	152.79	142.61	CR5220-10
	4~20 mADC	0~20 ADC	582-1064-ND	178.26	152.79	142.61	CR5220-20
True RMS AC Voltage Transducers (Single Phase)							
2	0~5 VDC	0~250 ADC	582-1065-ND	270.97	232.26	216.78	CR4510-250
	4~20 mADC	0~150 ADC	582-1066-ND	299.46	256.68	239.57	CR4520-150
True RMS AC Voltage Transducer (3-Phase, 3-Wire)							
3	0~5 VDC	0~150 VAC	582-1067-ND	477.79	409.53	382.23	CR4550-150
Frequency Transducers							
3	0~5 VDC	0~100 Hz	582-1072-ND	154.89	132.77	123.92	CR6610-100
	4~20 mADC	0~100 Hz	582-1073-ND	171.75	147.21	137.40	CR6620-100
DC Voltage Transducers							
4	0~5 VDC	0~50 VDC	582-1069-ND	222.53	190.74	178.03	CR5310-50
	0~5 VDC	0~200 VDC	582-1068-ND	222.53	190.74	178.03	CR5310-200
	4~20 mADC	0~50 VDC	582-1071-ND	239.23	205.05	191.38	CR5320-50
	4~20 mADC	0~100 VDC	582-1070-ND	239.23	205.05	191.38	CR5320-100

(Continued)

High Ratio Transformers

The **CR8300** series of PCB Mounted Current Transformers and the **CR8400** series of Wire Lead Current Transformers are available in a wide range of sizes and materials to meet any AC current sensing needs.

Fig.	Ir†	Vmax RMS§	Te‡	Frequency kHz	Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
General Purpose Vertical PCB Current Transformers									
1	10	1.0	1613	20 ~ 1	582-1009-ND	6.50	5.02	4.72	CR8320-1600
	50	10.2	2046	20 ~ 1	582-1010-ND	8.53	6.59	6.20	CR8348-2000
	75	10.3	1520	20 ~ 1	582-1012-ND	9.10	7.03	6.62	CR8349-1500
	200	14.6	2037	20 ~ 1	582-1014-ND	11.83	9.14	8.60	CR8350-2000
Revenue Grade Vertical PCB Current Transformers									
1	40	2.3	2510	20 ~ 1	582-1011-ND	9.53	7.38	6.94	CR8348-2500-N
	75	4.8	2512	20 ~ 1	582-1013-ND	10.68	8.24	7.76	CR8349-2500-N
	100	7.2	2511	20 ~ 1	582-1015-ND	14.95	11.55	10.87	CR8350-2500-N
General Purpose Current Transformer									
2	20	2.1	1012	20 ~ 1	582-1017-ND	8.53	6.59	6.20	CR8410-1000
Revenue Grade Current Transformer									
2	100	7.2	2511	20 ~ 1	582-1019-ND	18.35	14.18	13.34	CR8459-2000-N
Ground Fault Current Transformers									
2	4	0.3	1005	20 ~ 200	582-1016-ND	8.08	6.26	5.89	CR8401-1000-G
	20	2.0	1011	20 ~ 200	582-1018-ND	10.60	8.19	7.71	CR8420-1000-G

† Maximum Input Current to be linearly sensed § Maximum Linear Voltage (Saturation) CT will develop at I_r

‡ Effective turns ratio including losses

Fig. 1

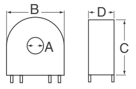

Part No. Prefix	Dimensions Inch (mm) A Min.	B Max.	C Max.	D Max.
CR8320	.22 (5.5)	.77 (19.6)	.79 (20)	.34 (8.6)
CR8348	.27 (6.9)	.93 (23.5)	.98 (25)	.43 (11)
CR8349	.35 (9)	1.02 (26)	1.01 (28)	.67 (17)
CR8350	.50 (12.8)	1.48 (37.5)	1.54 (39)	.55 (14)

Fig. 2

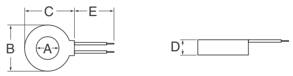

Part No. Prefix	Dimensions Inch (mm) A Min.	B Max.	C Max.	D Max.	E Typ.
CR8410	.35 (8.89)	.87 (22.10)	1.02 (25.91)	.35 (8.89)	2.87 (72.90)
CR8459	.75 (19.05)	1.89 (48.01)	2.36 (59.94)	.67 (17.02)	7.88 (200.15)
CR8401	.23 (5.84)	.71 (18.03)	.83 (21.08)	.31 (7.87)	.79 (20.07)
CR8420	.57 (14.48)	1.20 (30.48)	1.28 (32.51)	.37 (9.40)	3.74 (95.00)

Split-Core Current Transformer

Dimensions in Inch (mm)

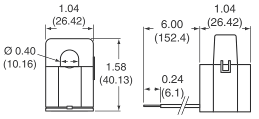

The **CR3110** Split-Core Current Transformer is designed to provide a low cost method to monitoring electrical current. A unique hinge and locking snap allows attachment without interrupting the current-carrying wire.

Specifications:

- **Maximum Continuous Primary Current**: 75 AAC
- **Secondary Turns:** 3000
- **DC Resistance:** 460Ω @ 20°C
- **Frequency:** 50/60Hz

Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
582-1004-ND	15.50	11.98	11.28	CR3110-3000

Low Cost Current Sensors

Dimensions in Inch (mm)

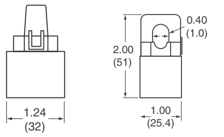

Specifications:

- **Accuracy:** ±.5% Full Scale
- **Ripple:** 1% Maximum
- **Signal Out:** 0-5 Vdc
- **Output Load:** 1.0MΩ or greater for rated accuracy
- **Response Time:** 250ms Maximum 10~90% Full Scale
- **Frequency:** 50~400Hz (All specifications for operation @ 60Hz)

AAC	Window Dia. (inch)	Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
10	0.40‡	582-1033-ND	30.28	29.26	27.53	CR9580-10
20	0.40‡	582-1034-ND	30.28	29.26	27.53	CR9580-20

‡ Window Split Core

Current Switches

The **CR9321** series and the **CR9380** series is a low cost, self powered, fixed set-point Current Switch designed for applications that require an on-off indication of current flow.

Specifications: • **Rated full-on:** 0.350 Aac RMS • **Turn-on Time:** 100 ms Maximum @ rated full on • **Turn-off Time:** 250 ms Maximum to 80% of Vce • **Maximum Sense Current:** Continuous: 100 Aac, 1 Second: 500 Aac • **Frequency:** 50 ~ 400Hz (All specifications for operation @ 60 Hz only) • **Operating Temperature:** -30°C ~ 60°C

DC Switching (NPN or PNP): • **Vce (full off):** 30 Vdc Maximum • **Isink (full on):** 120 mAdc Maximum @ rated full-on

AC Switching (ACA): • **Off State Voltage:** 240 Vac RMS Maximum • **Minimum Switch Voltage:** 24 Vac RMS • **On State Current:** 1.0 Aac RMS Maximum continuous

Fig.	Transistor Output	Window Dia.	Digi-Key Part No.	Price Each 1	10	25	CR Magnetics Part No.
1	ACA‡	0.27	582-1020-ND	23.60	18.25	17.17	CR9321-ACA
	NPN	0.27	582-1021-ND	23.60	18.25	17.17	CR9321-NPN
	PNP	0.27	582-1022-ND	23.60	18.25	17.17	CR9321-PNP
2	NPN	Split Core	582-1027-ND	30.28	29.26	27.53	CR9380-NPN

‡ AC Output

Dimensions in Inch (mm)

Fig. 1

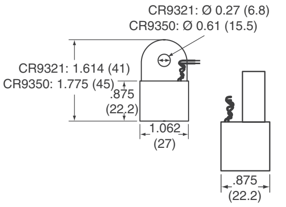

Fig. 2

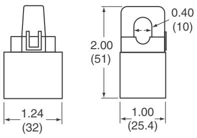

NEW! Sensors

CR4395 Series: Current Sensing Relay that provides an effective and highly stable method for monitoring electrical current. The current-carrying wire is routed through the opening extending from the top of the case. When current reaches the level set by the trip point adjustment, the relay trips and starts the adjustable timer. After the timer cycles the electromechanical relay is energized.

CR5395 Series: Direct Current Sensing Relay that provides a precision and cost effective method for monitoring direct current. Magnetic Modulator Technology is utilized for the current sensing to provide a stable and highly repeatable current trip. The current-carrying wire is routed through the opening extending from the top of the case. When current reaches the level set by the trip point adjustment, the relay trips and starts the adjustable timer. After the timer cycles the electromechanical relay is energized.

CR7310 Series: Ground Fault Sensor that provides a reliable and cost effective method for sensing ground faults. The current-carrying wires are routed through the opening extending from the top of the case. When ground current reaches the level set by the trip point adjustment, the relay trips, illuminates the tripped LED and provides an output signal.

TRIP STATUS:

EH: Energized on High, trips when sense current is above trip point and returns to non-trip status when sense current is below the trip point.

EL: Energized on Low, trips when sense current is below trip point and returns to non-trip status when sense current is above the trip point.

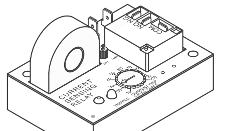

Current Sensing Relay Shown

Trip Status	Supply Voltage	Trip Range	Time On Delay	Trip Point Dial	Transformer	Digi-Key Part No.	Price Each 1	10	25	CR Magnetic Part No.
Current Sensing Relay										
EH	120 VAC	1.0 ~ 10 AAC	None	Calibrated Dial	Internal	582-1074-ND	125.79	107.82	100.64	CR4395-EH-120-110-X-CD-ELR-I
EH	120 VAC	3.0 ~ 30 AAC	.5 ~ 6 Sec.	Calibrated Dial	Internal	582-1075-ND	125.79	107.82	100.64	CR4395-EH-120-330-A-CD-ELR-I
EH	120 VAC	6.0 ~ 60 AAC	.5 ~ 6 Sec.	Calibrated Dial	Internal	582-1076-ND	125.79	107.82	100.64	CR4395-EH-120-660-A-CD-ELR-I
EL	120 VAC	1.0 ~ 10 AAC	.5 ~ 6 Sec.	Calibrated Dial	Internal	582-1077-ND	125.79	107.82	100.64	CR4395-EL-120-110-A-CD-ELR-I
Direct Current Sensing Relay										
EH	24 VDC ± 10%	1.0 ~ 10 ADC	None	Calibrated Dial	Internal	582-1078-ND	141.40	121.20	113.12	CR5395-EH-24D-110-X-CD-ELR-I
EH	85 ~ 265 VAC	1.0 ~ 10 ADC	None	Calibrated Dial	Internal	582-1079-ND	141.40	121.20	113.12	CR5395-EH-ACV-110-X-CD-ELR-I
Ground Fault Sensor										
EH	120 VAC	.01 ~ 0.1 AAC	None	Calibrated Dial	Internal	582-1080-ND	202.63	173.69	162.11	CR7310-EH-120-.01.1-X-CD-ELR-I
EH	120 VAC	0.1 ~ 1.0 AAC	None	Calibrated Dial	Internal	582-1081-ND	202.63	173.69	162.11	CR7310-EH-120-.11-X-CD-ELR-I
EL	120 VAC	.01 ~ 0.1 AAC	None	Calibrated Dial	Internal	582-1082-ND	202.63	173.69	162.11	CR7310-EL-120-.01.1-X-CD-ELR-I

Open Loop Current Sensors
Hall Effect Technology

A hall effect current sensor measures the magnetic flux which is produced proportionally to the current without any contact with the primary circuit. This results in no voltage drop in the measured circuit which provide excellent galvanic isolation. **Features:** • Galvanic isolation between primary and measuring circuit, measures DC or AC (kHz) • Zero insertion loss • Quick response **Specifications** (measured at Input Voltage and @ 25°): • Frequency Band Width (-3dB): L01Z, L03S, L08P, L18P: DC-50kHz; L07P: DC-35kHz • Output Linearity: ±1% • Operating Temperature: -10°C ~ 80°C • Insulation Resistance @ 500VDC: ≥500MΩ - di/dt • Response Time: 5μ Sec. Typ. (10μ for L08P Series) • Load Resister: 10kΩ 3mW minimum.

Fig. 1 — L01Z Series

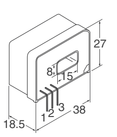

1	OUT
2	GND
3	5V

Fig. 2 — L03S Series

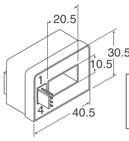

1	+15V
2	-15V
3	OUT
4	GND

Fig. 3 — L07P Series

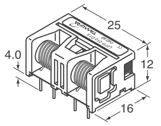

1	+5V
2	NC
3	OUT1
4	OUT2
5	GND
6	+IN1
7	-IN2
8	+IN2
9	-IN2

Fig. 4 — L08P Series

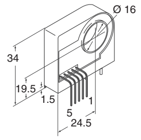

1	+Vc (15V)
2	-Vc (15V)
3	OUT
4	GND
5	NC

Fig. 5 — L18P Series

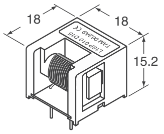

1	-V cc
2	GND
3	+V cc
4	OUT
5	+ Primary Input
6	- Primary Input

Fig.	Primary Nominal Current (A)	Supply Voltage (V)	Secondary Output Volt. (V)	Saturation Current (A)	Offset Temp. Coefficent (mV/°C)	Digi-Key Part No.	Price Each 1	10	25	50	Tamura Part No.
					L01Z Series						
1	±50	+5	4†	±62.5	≤±2	MT7173-ND◆	17.75	14.20	11.36	10.65	L01Z050S05
	±100	+5	4†	±125	≤±1	MT7174-ND◆	17.75	14.20	11.36	10.65	L01Z100S05
	±150	+5	4†	±187.5	≤±1	MT7175-ND	17.75	14.20	11.36	10.65	L01Z150S05
	±200	+5	4†	±250	≤±1	MT7176-ND◆	17.75	14.20	11.36	10.65	L01Z200S05
	±400	+5	4†	±500	≤±1	MT7178-ND◆	17.75	14.20	11.36	10.65	L01Z400S05
	±600	+5	4†	±750	≤±1	MT7180-ND	17.75	14.20	11.36	10.65	L01Z600S05
					L03S Series (Molex Mating Connector Required)						
2	±50	±15	±4	±150	≤±2	MT7181-ND◆	17.48	13.98	11.19	10.49	L03S050D15
	±200	±15	±4	±600	≤±1	MT7183-ND◆	17.48	13.98	11.19	10.49	L03S200D15
	±400	±15	±4	±700	≤±1	MT7185-ND◆	17.48	13.98	11.19	10.49	L03S400D15
	±500	±15	±4	±700	≤±1	MT7186-ND	17.48	13.98	11.19	10.49	L03S500D15
					L07P Series — RoHS Compliant						
3	±3	±15	±4	±9	≤±2	MT7297-ND	17.90	14.32	11.46	10.74	L07P003D15
	±5	±15	±4	±15	≤±2	MT7298-ND	17.90	14.32	11.46	10.74	L07P005D15
	±10	±15	±4	±30	≤±2	MT7299-ND	17.90	14.32	11.46	10.74	L07P010D15
	±15	±15	±4	±45	≤±2	MT7300-ND	17.90	14.32	11.46	10.74	L07P015D15
	±20	±15	±4	±60	≤±2	MT7301-ND	17.90	14.32	11.46	10.74	L07P020D15
	±25	±15	±4	±75	≤±2	MT7302-ND	17.90	14.32	11.46	10.74	L07P025D15
					L08P Series						
4	±50	±15	±4	±150	≤±2	MT7188-ND◆	16.20	12.96	10.37	9.72	L08P050D15
	±100	±15	±4	±300	≤±1	MT7189-ND◆	16.20	12.96	10.37	9.72	L08P100D15
	±150	±15	±4	±350	≤±1	MT7190-ND	16.20	12.96	10.37	9.72	L08P150D15
					L18P Series — RoHS Compliant						
5	±3	±15	±4	±9	≤±1.5	MT7311-ND	12.60	10.08	8.07	7.56	L18P003D15
	±5	±15	±4	±15	≤±1.5	MT7312-ND	12.60	10.08	8.07	7.56	L18P005D15
	±10	±15	±4	±30	≤±1.5	MT7313-ND	12.60	10.08	8.07	7.56	L18P010D15
	±15	±15	±4	±45	≤±1.5	MT7314-ND	12.60	10.08	8.07	7.56	L18P015D15
	±20	±15	±4	±60	≤±1.5	MT7315-ND	12.60	10.08	8.07	7.56	L18P020D15
	±25	±15	±4	±60	≤±1.5	MT7316-ND	12.60	10.08	8.07	7.56	L18P025D15
	±30	±15	±4	±90	≤±1.5	MT7317-ND	12.60	10.08	8.07	7.56	L18P030D15

† + Vref = 2.5V at 0 Amps ◆ ***RoHS Compliant***

WM2022-ND	Waldom Molex, 4 Position Housing (2.50mm) KK Series.	**$.59**
WM2312-ND	Waldom Molex, Crimp Terminal - Wire Size: 22-30AWG; Insulation Dia.: .062" (1.57) Max; Finish: Selective Gold 15u"	**$2.58/10**
WM1129-ND	Waldom Molex, Crimp Terminal - Wire Size: 22-30AWG; Insulation Dia.: .062" (1.57) Max; Finish: Gold 15u"	**$8.32/10**
WM1114-ND	Waldom Molex, Crimp Terminal - Wire Size: 22-30AWG; Insulation Dia.: .062" (1.57) Max; Finish: Tin	**$1.19/10**
WM9999-ND	Waldom Molex, Universal Crimp Tool	**$50.75**
WM9927-ND	Waldom Molex, Extraction Tool	**$6.77**
WM9915-ND	Waldom Molex, Production Tool - Wire Size: 24-30AWG	**$228.96**

Closed Loop Multi-range Current Sensors

Closed loop (compensated) current sensor provides an exact duplication of the primary current scaled by the number of turns in the secondary coil. Each multi-range sensor has a nominal sensing current but can be changed by configuring the primary pins. The sensing current can be scaled down by 1/2 or 1/3 the nominal output sensing current, which gives you the flexibility to sense 3 different current ranges with only one part.

Specifications (measured at input voltage and 25°C): • Frequency Bandwidth S22P(1dB): DC-200kHz (at higher frequencies derating is required to prevent core from overheating) • Output Linearity: ±0.25% • Operating Temperature: -10°C ~ 85°C • Insulation Resistance @ 500VDC: ≥ 500mΩ • Response Time: 1μSec. • Load Resistor 10kΩ 3mW Minimum

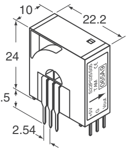

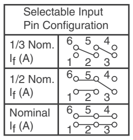

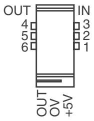

Primary Nominal Current (A)	Supply Voltage (V)	Secondary Output Volt. (V)±1%	Saturation Current (A)	Offset Temp. Coefficent (mV/°C)	Digi-Key Part No.	Price Each 1	10	25	50	Tamura Part No.
					S22P Series					
±6	+5	2.5±30mV	±18	1.25	MT7318-ND	15.18	12.14	9.72	9.11	S22P006S05
±15	+5	2.5±20mV	±45	1.25	MT7319-ND	15.18	12.14	9.72	9.11	S22P015S05
±25	+5	2.5±15mV	±75	1.25	MT7320-ND	15.18	12.14	9.72	9.11	S22P025S05

Current Transformer Standard Accuracy Low-Cost 50/60 Hz

Applications:

• Sensing current overload • Ground fault detection • Metering

Notes:

• RCF: Ratio Correction Factor. Multiply current readings by this factor to compensate for transformer losses. • Data is deemed reliable at the time of publication, but may be subject to change without notice.

Size Code	Dimensions – mm W	L	H	A	B	C	D (Dia.)	ID
A	23.83	23.83	11.13	15.24	7.62	1.75	0.81	9.53
B	30.18	30.18	14.30	20.32	10.16	2.08	1.02	11.43
C	34.93	34.93	14.30	25.40	10.16	2.08	1.02	14.61
D	38.10	38.10	15.88	30.48	10.16	2.84	1.02	14.61
E	44.45	44.45	14.30	35.56	10.16	2.08	1.02	19.05
F	55.58	55.58	20.65	45.72	12.70	3.96	1.02	23.88

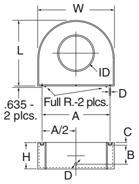

Size Code	Rated Ip Amps	Turns Ratio	Nominal DCR	RCF @ 10% (1)	Volts/Amp @ Rated Ip, for Various Loads (Ω) 100	500	2K	5K	Digi-Key Part No.	Price Each 1	10	25	Amveco Part No.
A	5.0	1000:1	39	1.040	0.10	0.45	1.35	1.8	TE1005-ND◆	7.80	6.50	5.20	AC-1005
A	10.0	1000:1	39	1.035	0.10	0.45	1.00	1.3	TE1010-ND◆	7.80	6.50	5.20	AC-1010
A	15.0	1000:1	39	1.030	0.10	0.43	0.80	1.0	TE1015-ND◆	7.80	6.50	5.20	AC-1015
A	20.0	1000:1	39	1.030	0.10	0.42	0.70	0.8	TE1020-ND◆	6.39	5.33	4.26	AC-1020
B	25.0	1000:1	46	1.020	0.10	0.40	1.00	1.2	TE1025-ND◆	9.33	7.78	6.22	AC-1025
B	30.0	1000:1	46	1.020	0.10	0.40	0.85	1.1	TE1030-ND◆	9.36	7.80	6.24	AC-1030
C	40.0	1000:1	46	1.020	0.10	0.45	0.75	1.0	TE1040-ND◆	10.83	9.03	7.22	AC-1040
C	50.0	1000:1	46	1.020	0.10	0.44	0.70	0.8	TE1050-ND	11.76	9.80	7.84	AC-1050
D	60.0	1000:1	23	1.020	0.10	0.36	0.60	0.7	TE1060-ND◆	12.27	10.23	8.18	AC-1060
D	75.0	1000:1	23	1.015	0.10	0.35	0.50	0.6	TE1075-ND◆	12.33	10.28	8.22	AC-1075
E	100	1000:1	20	1.015	0.10	0.35	0.50	0.6	TE1100-ND◆	12.69	10.58	8.46	AC-1100
F	150	1000:1	10	1.010	0.10	0.32	0.55	0.6	TE1150-ND◆	16.80	14.00	11.20	AC-1150
F	200	1000:1	10	1.010	0.10	0.30	0.45	0.6	TE1200-ND◆	17.04	14.20	11.36	AC-1200

◆ ***RoHS Compliant***

CHERRY Solid State Magnetic Hall Effect Sensors

Fig. 1

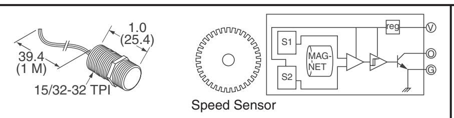

Fig. 2

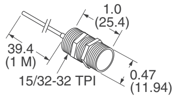

Fig. 3

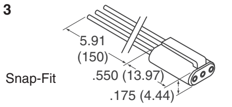

Fig. 4

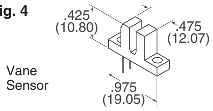

Fig. 5

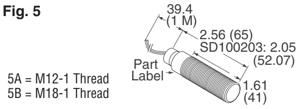

Fig. 6

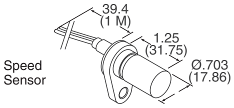

Fig. 7

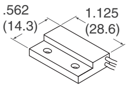

Fig. 8

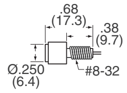

Cherry magnetic sensors are used to detect changes in magnetic field polarities and the motion of ferrous metals such as gear tooth movements. Used for such applications as speed and proximity sensing, magnetic polarity detection and current flow monitoring. Solid state design for unlimited life.

Features:

MP100 Series:

- Aluminum threaded barrel sensor for speed and position sensing • The threaded barrel allows precise positioning and adjustment

GS100 Series:

- Barrel sensors intended for gear tooth speed sensing • High speed capability, ideal for sensing power gears, conveyer speed and other rotating gears • Built-in magnet supplies its own bias field
- GS101202 is plastic housing with steel bushing

Fig.	Supply Voltage	Output Current	Terminal Type	Polarity	Digi-Key Part No.	Price Each 1	10	50	100	Cherry Part No.
1	4.5-24VDC	25mA	20AWG Wires	Gear Teeth	CH398-ND†	30.24	26.88	22.40	20.72	GS100701
2	4.75-24VDC	25mA	20AWG Wires	South Pole	CH396-ND†◆	24.44	21.72	18.10	16.75	MP100701
3	4.75-24VDC	25mA	24AWG Wires	South Pole	CH399-ND	6.08	5.40	4.50	4.17	MP101301
4	4.5-24VDC	25mA	PC Mount	Ferrous Vane	CH401-ND◆	6.67	5.93	4.94	4.57	VN101501
			24AWG Wires		CH712-ND◆	7.29	6.48	5.40	5.00	VN101503
5A	4.5-24VDC	25mA	20AWG Wires	Gear Teeth	CH416-ND†	30.83	27.41	22.84	21.13	GS100502
			22AWG Wires		CH414-ND*	54.00	48.00	40.00	37.00	GS100102
5A	4.75-24VDC	25mA	20AWG Wires	South Pole	CH708-ND†	24.44	21.72	18.10	16.75	MP100502
5B	4.5-24VDC	25mA	12mm Conn.	Gear Teeth	CH705-ND*	58.86	52.32	43.60	40.33	GS100201
	4.5-24VDC	25mA	22AWG Wires		CH415-ND*	57.24	50.88	42.40	39.22	GS100202
	5-24VDC	—	20AWG Wires		CH706-ND*	52.92	47.04	39.20	36.26	GS100203
6	5-24VDC	25mA	20AWG Wires	Gear Teeth	CH417-ND	32.29	28.71	23.92	22.13	GS101202
7	4.5-24VDC	25mA	24AWG Wires	North Pole	CH400-ND◆	7.18	6.39	5.32	4.93	MP102103
—	12mm Threaded Cord Set - straight female 36" Length				CH698-ND	29.03	25.80	21.50	18.55	AS000203
8	Threaded Actuator, South pole magnet, Aluminum Housed				CH700-ND◆	5.13	4.56	3.80	3.52	AS101001

* Industrial Grade-Stainless Steel † Commercial Grade Aluminum ◆ ***RoHS Compliant***

Honeywell Sensors

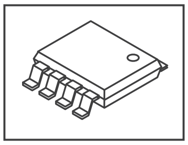

Linear / Angular / Rotary Displacement Sensors – HMC1501 / HMC1512

RoHS COMPLIANT

High resolution, low power MR sensor capable of measuring the angle direction of a magnetic field from a magnet with <0.07° resolution. Output is typical Wheatstone Bridge

Features: • No "rare earth" magnets; functions with Alnico or ceramic type magnets • Linear range of 8mm with two sensors mounted on two ends; range may be increased through multiple sensor arrays operating together • Absolute sensing ability to know exact position and require no indexing for proper positional output • No moving parts to wear out • 8-pin SMT package • Case dimensions (exclusive of pins) of 5mm x 4mm x 1.2mm total mounting envelope, with pins of less than 6mm square • Full scale output range of 120mV with 5V of power supply.

Applications: • Linear Displacement • Angular Displacement • Motor Control • Valve Position • Proximity Detection • Current Spike Detection. **Specifications** (at 25°C except stated otherwise): • **Typical Bridge Supply:** 5V, Vbridge referenced to GND • Sensitivity Vbridge =5V, field 80 Oe: 2.1mV/° @ zerocrossing; 1.8mV/° @ zero crossing, averaged in the range of 45° • **Typical Peak-to-Peak Voltage:** 120mV, Vbridge=5V, field=80 Oe • **Bandwidth:** 0MHz ~ 5MHz, Magnetic signal • **Typical Hysteresis Error:** 30µV°, 1.7x10^{-2} mV°, Magnetic field ≥saturation field, Vbridge = 5V

Typ. Bridge Resistance @ 1mA	Angle Range ≥ Saturation Field	Typ. Resolution 10Hz Bandwidth Vbridge=5V <0.07°	Digi-Key Part No.	Price Each	Honeywell Part No.
5KΩ	±45°	<0.07°	342-1008-5-ND	17.00	HMC1501
2.1KΩ	±90°	<0.05°	342-1010-1-ND	17.00	HMC1512
2.1KΩ	±90°	<0.05°	342-1010-2-ND†	1562.50/1,000	HMC1512

† Tape and Reel

Digital Compass Module – HMR3000

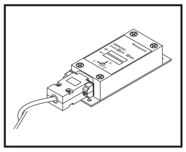

Electronic compass module that provides heading, pitch and roll output for navigation and guidance systems. This solid state magnetoresistive sensors make this strapdown compass both rugged and reliable. This compass provides fast response time up to 20Hz and high heading accuracy of 0.5° with 0.1° resolution.

Features: • Built with solid state magnetic sensors and no moving parts improves response time, allowing faster updates compared to gimballed fluxgates • Available as a circuit board 1.2" x 2.95", weighing less than one ounce, or in an aluminum enclosure • Operates with less than 35mA, allowing for long operation with a battery • Accuracy better than 0.5° with 0.1° resolution for critical positioning applications • Tilt range of ±40° for both the roll and pitch allows operation for most applications • Calibration routines to compensate for distortion due to nearby ferrous objects and stray fields, such as vehicles • User settings of baud rate, update rate, output format, units, filter settings, deviation angles, alarms, and warnings are stored internally in non-volatile memory.

Specifications: • **Typical Supply Voltage:** 5.0VDC regulated, 6-15VDC unregulated • **Typical Power:** 35mA @ 6VDC Normal Operation, 13mA STOP Mode, 2.0mA SLEEP Mode • **Serial:** RS-232 / RS-485 (Half Duplex) • **Baud Rate:** 1200 ~ 38400 bps

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
RS-232	Without Enclosure	342-1024-ND	650.00	HMR3000-D00-232
RS-232	Enclosure, Extended Base	342-1025-ND	675.00	HMR3000-D21-232
RS-485	Without Enclosure	342-1026-ND	650.00	HMR3000-D00-485
RS-485	Enclosure, Extended Base	342-1027-ND	675.00	HMR3000-D21-485
HMR 3000 Development Kit, with RS-232 Output, Cables, Manual		342-1022-ND	775.00	HMR3000-Demo-232

Smart Digital Magnetometer – HMR2300

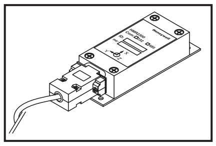

Microcontroller-Based Smart Sensor with range of ±2 Gauss; <70µGauss Resolution. Has high accuracy over ±1 Gauss; <0.5%FS; and Output Rate Selectable of 10 to 154 Samples/Sec. This sensor has a three-axis digital output, BCD ASCII or Binary, RS-232 Serial Output (9600 or 19200), and a 9-pin D-Sub connector.

Applications: • Compassing – Avionics and Marine • Remote Vehicle Monitoring (Roll/Pitch/Yaw) • Process Control • Laboratory Instrumentation • Anomaly Detection • Traffic and Vehicle Detection • Security Systems. **Specifications:** • **Supply Voltage:** 6.5V ~ 15V; Pin 9 referenced to Pin 5 • **Typical Supply Current:** 27mA; Vsupply=15V, with S/R=ON • **Operating Temp:** -40°C ~ 85°C; Ambient • **Field Range:** ±2 gauss; Full scale (FS) - total applied field • **Typical Linearity Error:** 1%FS; Best fit straight line at 25°C ±2 Gauss • **Typical Hystereis Error:** 0.01%FS; 3 sweeps across ±2 Gauss @ 25°C • **Minimum Resolution:** 67µgauss; Applied field to change output. (Units: 1 gauss (G) = 1 Oersted (in air), 1G=79.58A/m, 1G=10E-4 Tesla, 1G=10E5 gamma)

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
RS-232	Flush Mount Enclosure, Aluminum, 3.25" x 1.50" x 1.13" (82.55 x 38.1 x 28.70mm)	342-1015-ND	699.00	HMR2300-D20-232
RS-232	Extended Enclosure, Aluminum, 4.00" x 1.50" x 1.13" (101.60 x 38.1 x 28.70mm)	342-1016-ND	699.00	HMR2300-D21-232
RS-485	Without Enclosure	342-1017-ND	675.00	HMR2300-D00-485
RS-485	Flush Mount Enclosure, Aluminum, 3.25" x 1.50" x 1.13" (82.55 x 38.1 x 28.70mm)	342-1018-ND	699.00	HMR2300-D20-485
RS-485	Extended Enclosure, Aluminum, 4.00" x 1.50" x 1.13" (101.60 x 38.1 x 28.70mm)	342-1019-ND	699.00	HMR2300-D21-485
RS-232	HMR2300 Development Kit with RS-232 Output, Cables, Manual	342-1012-ND	775.00	HMR2300-Demo-232

Digital Compass Module – HMR3200/3300

Electronic compassing solutions that provide heading information for use in navigation and guidance systems. Magnetoresistive sensors are utilized to provide the reliability and accuracy of these small, solid state compass designs. These compass solutions are easily integrated into systems using a UART interface in ASCII format.

Features: Accuracy: 1° heading accuracy, 0.1° resolution and 0.5° repeatability. **Tilt Range:** The HMR3300 may be operated up to a ±60° tilt range for both pitch and roll. Accuracy and performance are enhanced over a wider range of operating conditions and applications with this feature. The HMR3200 is not tilt compensated. Performance is optimized in horizontal or vertical orientations. **Low Power:** Typical operating current is 18mA for the HMR3200. **Response Time:** The HMR3200 has 15Hz response time for faster updates compared to gimballed, mechanical fluxgate compasses.

Specifications: • **Magnetic Field:** Range: ±2 gauss typical, Resolution: 0.1 mgauss • **Electrical:** Input Voltage: Unregulated: 6VDC ~ 15VDC, Regulated: 5.0Vdc • **Interface:** UART - User selectable baud rate 2400 ~ 19200 baud • **Physical:** Dimensions - Conditions: Circuit board, 1.0" x 1.45" x 0.4" (25.4 x 36.8 x 11 mm)

Header Pin Assignment	
Pin No.	**Pin Name**
1	SCK
2	RX/SDI
3	TX/SDO
4	CS
5	CAL
6	5V
7	GND
8	+V

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
UART	Digital Compass Module 2-axis	342-1030-ND	300.00	HMR3200
UART	Digital Compass Module 3-axis	342-1032-ND	385.00	HMR3300
HMR 3200 Development Kit, with RS232 Output, Cables, Manual		342-1031-ND	365.00	HMR3200-Demo-232
HRMR 3300 Digital Compass Module with RS232 Motherboard		342-1039-ND	435.00	HMR3300-D00-232
HMR 3300 Development Kit, with RS232 Output, Cables, Manual		342-1033-ND	450.00	HMR3300-Demo-232

Honeywell Sensors

Digital Compass Solution

The Honeywell HMR3400 is a digital compass solution designed for use in navigation and precision pointing applications. Using a common set of commands from the legacy HMR3300 digital compass solution, the HMR3400 is designed to be easily integrated into host systems with a regulated 5 volt supply and a UART serial data interface.

Features:

• Tilt-Compensated • Operating Temperature Range: -40°C ~ 85°C

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
HMR3400 Module	342-1057-ND	360.00	HMR3400

TruePoint™ Compass Module

The HMR3500 TruePoint compass module is a 3-axis digital compass solution with a customizable coordinate system for mounting in any desired orientation. It has provisions for hard and soft-iron correction algorithms to handle magnetic distortion effects. In addition a World Magnetic Model feature is provided to automatically add declination angle corrections for reference to true north (geographical north).

Features:

• Tilt-Compensated • Operating Temperature Range: -40°C ~ 85°C • Supply Voltage Range: 5DC

Benefits:

• Better than 1° Nominal Heading Accuracy (1δ), 0.1° Resolution • ±89° Pitch and Roll, 360° Continuous Roll Capability

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
HMR3500 Module	342-1058-ND	675.00	HMR3500
Demo Kit	342-1059-ND	775.00	HMR3500 Demo

3-Axis Magnetic - Hybrid

A complete 3-axis magneto-meter with analog output in a 20-Pin hybrid DIP package.

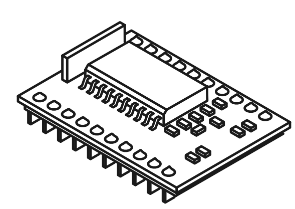

Features:

• DIP-20 foot-print (1" x .75") allows easy insertion into system-level boards, reducing development costs • Solid state components improve reliability and ruggedness compared to mechanical fluxgates • Accurately measures fields from 40 µgauss to ±2 gauss at 1V/gauss • Low noise instrumentation amplifiers with 1kHz low pass filters, reject unwanted noise • No flux concentrators used in this design that can lead to hysteresis and non-repeatability • An externally accessible +2.5V reference improves measurement accuracy and stability • On-board excitation current source reduces temperature errors and regulates the power supply input • Magnetic field offsets or closed loop circuits can be applied using the built-in straps • Output signal accuracy may be enhanced by using the integral set/reset straps • All components selected and packaged in nonmagnetic material to reduce magnetic distortion and offsets.

Applications:

• Compassing • Navigation systems • Attitude reference • Traffic detection • Proximity detection • Medical devices

Specifications (Power Supply: +15VDC; Set/Reset switching is active):

• Operating Temperature: -40°C ~ 85°C, ambient @ 25°C • Supply Voltage: 6VDC ~ 15VDC; Transient protection circuitry should be added across V+ and Gnd if an unregulated power supply is used • Supply Current: 20mA • Output Voltage: 0.5V ~ 4.5V • Field Range: ±2 gauss • Typical Linearity Error: 1% FS; ±2 gauss applied field sweep • Typical Hysteresis Error: 0.05% FS; 3 sweeps across ±2 gauss • Typical Sensitivity: 1.0mV/V/gauss; at Vbridge +5V • Typical Resolution: 40 µgauss • Bandwidth: 1kHz

Units:

• 1 gauss (G) = 1 Oersted (in air), 1G = 79.58A/m, 1G = 10E-4 Tesla, 1G = 10E5 gamma

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
3-Axis Magnet Sensor Hybrid	342-1011-ND	191.25	HMC2003

1, 2 and 3-Axis Magnetoresistive

Configured as a 4-element wheatstone bridge, these highly sensitive sensors convert magnetic fields to differential output voltages, capable of sensing magnetic fields as low as 30 µgauss.

Features:

• Field range up to ±6 gauss, (earth's field = 0.5 gauss) • Small package designed for 1 and 2-axis to work together to provide 3-axis (x, y, z) sensing • Solid state devices reduce board assembly costs, improve reliability and ruggedness compared to mechanical fluxgates • Patented on-chip set/reset straps to reduce effects of temperature drift, non-linearity errors and loss of signal output due to the presence of high magnetic fields • Patented on-chip offset straps for elimination of the effects of hard iron distortion

Applications:

• Compassing • Navigation systems • Attitude reference • Traffic detection • Medical devices • Non-contact switch

	Honeywell Part No.			
SPECIFICATIONS:	**HMC1001** **HMC1002**	**HMC1021** **HMC1022**	**HMC1042**	**HMC1043** **HMC1051** **HMC1052** **HMC1053** **HMC1055**
Operating Temperature (Condition)	-55°C ~ 150°C ‡ (—)	-55°C ~ 150°C (—)	-40°C ~ 125°C (Ambient)	-40°C ~ 125°C (Ambient)
Field Range Full scale (FS) - total applied field	±2 gauss ‡	±6 gauss	±6 gauss	±6 gauss
Sensitivity Typical (Set/Reset Current)	3.2 mV/V/gauss (0.3A)	1.0 mV/V/gauss (0.5A)	1.0 mV/V/gauss (0.5A)	1.0 mV/V/gauss (0.5A)
Resolution Typical (Bandwidth, Vbridge)	27 µgauss ‡ (10Hz, 5V)	85 µgauss (10Hz, 5V)	160 µgauss (1kHz, 5V)	120 µgauss (50Hz, 5V)
Bandwidth Magnetic signal (lower limit = DC)	5MHz ‡	5MHz	5MHz	5MHz
Units: 1 gauss (G) = 1 Oersted (in air), 1G = 79.58A/m, 1G = 10E-4 Tesla, 1G = 10E5 gamma				

‡ Not tested in production, guaranteed by characterization

Description	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty	Pricing	Honeywell Part No.
8-Pin SIP, Single Axis	342-1001-5-ND	17.00	15.00	12.00	—	—	—	HMC1001
8-Pin SIP, Single Axis	342-1004-5-ND	17.00	6.00	5.00	—	—	—	HMC1021Z
8-Pin SIP, Single Axis	342-1061-ND◆ ***NEW!***	17.00	6.00	5.00	—	—	—	HMC1021Z-RC
8-Pin SIP, Single Axis	342-1034-5-ND	17.00	6.00	5.00	—	—	—	HMC1051Z
8-Pin SIP, Single Axis	342-1060-ND◆	17.00	6.00	5.00	—	—	—	HMC1051Z-RC
8-Pin SOIC, Single Axis	342-1003-5-ND◆	17.00	6.00	5.00	—	—	—	HMC1021S
8-Pin In-Line LCC, Single Axis	342-1043-5-ND	17.00	11.00	10.00	—	—	—	HMC1051ZL
10-Pin MSOP, Double Axis	342-1029-1-ND◆†	17.00	7.00	6.00	—	—	—	HMC1052
16-Pin SOIC, Double Axis	342-1005-1-ND◆†	17.00	7.00	6.00	342-1005-2-ND◆	2,500	3250.00/M	HMC1022
16-Pin LCC, Double Axis	342-1042-5-ND◆	17.00	6.75	5.50	—	—	—	HMC1052L
16-Pin LCC, Double Axis	342-1053-1-ND◆†	17.00	7.00	6.00	342-1053-2-ND◆	3,000	3500.01/M	HMC1042L-TR
20-Pin SOIC, Double Axis	342-1002-5-ND	19.00	18.00	17.00	—	—	—	HMC1002
16-Pin LCC, Triple Axis	342-1035-5-ND	55.00	50.00	42.00	—	—	—	HMC1053
16-Pin LPCC, Triple Axis	342-1054-1-ND†	25.00	15.00	12.00	342-1054-2-ND	3,000	8999.97/M	HMC1043-TR
3-Axis Compass Sensor Set with (1 each) HMC1051Z, HMC1052, MEMSIC, MXS3334UL	342-1036-ND	22.50	18.00	—	—	—	—	HMC1055

◆ ***RoHS Compliant*** † Cut Tape

(Continued)

HMC6042

The HMC6042 includes our state of the art 1042 series magneto-resistive sensors plus a precision mixed signal ASIC containing three sensor amplifiers and a compatible set/reset strap driver circuit for 2.4 ~ 3.6 volt operation. The sensors feature precision in-axis sensitivity and linearity, solid-state construction with very low cross-axis sensitivity designed to measure both direction and magnitude of Earth's magnetic fields.

Features: • Low Voltage Operations (2.4V ~ 3.6V) • Built-In Set/Reset Drive Circuit • Wide Magnetic Field Range (+/-6 Oe)

Benefits: • Single Logic Input for Degaussing, Thermal Drift Compensation • Feedback Pins for Gain and Bandwidth Shaping

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel† Pricing 1,000	Honeywell Part No.
2-Axis Magnetic Sensor	342-1055-1-ND	25.00	12.00	10.00	6250.00	HMC6042-TR

† For Tape and Reel part number, change 1-ND to 2-ND.

Digital Compass Module

The HMC63xx digital compass modules combine a 2 or 3-axis tilt sensor with the required support circuitry for heading computation. By combining the sensor and processing elements into a small LCC or LPCC package designers will have the most simple solution to integrate low cost and space efficient compasses for mobile phones, consumer electronics, vehicle compassing and antenna positioning.

HMC6343 Features: • 36 pin LPCC • 3-axis sensor • 2.7V ~ 3.6V supply range

HMC6352 Features: • 24 pin LCC • 2-axis sensor • 2.7V ~ 5.2V supply range

Fig. 1

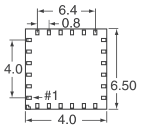

Fig. 2

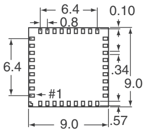

Fig.	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
1	24-Pin LCC, Double Axis	342-1041-5-ND	35.00	HMC6352
2	36-Pin LPCC, Triple Axis	342-1056-ND◆	149.95	HMC6343

◆ *RoHS Compliant*

DRM™ 4000

The Dead Reckoning Module (DRM™) 4000 is a miniature, electronic device for personnel on foot that provides the user's position relative to an initialization point. When GPS data is available, the dead reckoning sensors are automatically calibrated continuously and the two data sources are blended into a composite real-time position data output. When GPS data is unavailable, dead reckoning takes over. Motion classification algorithms analyze walking motion, and compensate when the user is running, or in place.

Features and Benefits: • State-of-the-art dead reckoning device for personnel navigation • Typical DR accuracy 2% distance traveled • Low power consumption • Industrial temperature range: -40°C ~ 85°C

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
DRM 4000 Module	342-1052-ND	1695.00	DRM4000-N00-232

measurement SPECIALTIES

Rugged Stainless Steel Pressure Transducers Featuring Microfused Technology

MSP Series: The MSP pressure transducer is designed for high-volume, low-cost commercial, industrial and off road applications which require accurate measurement of gases or liquids. Operating ranges up to 10,000 psi is available with your choice of output signal in volts, millivolts, or milliamps. The MSP uses a micro machined silicon strain gauge inorganically bonded to a machined stainless steel diaphragm; no welds, no 0-rings, no silicone oil. All wetted surfaces are stainless steel and all signal conditioning electronics are housed in a stainless steel cover which provides protection from hostile environments. The housing is sealed and requires no maintenance. Each transducer is thoroughly tested and calibrated before shipment.

Applications: • Pumps and Compressors • Hydraulic / Pneumatic Systems • Energy and Water Management • Pressure Instrumentation • Process Control, Off Road Refrigeration, HVAC.

2 Foot Cable — MSP Series

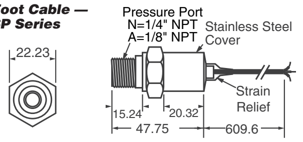

Packard Connector — MSP and M5100 Series

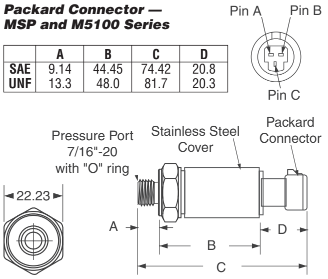

	A	B	C	D
SAE	9.14	44.45	74.42	20.8
UNF	13.3	48.0	81.7	20.3

2 Foot Cable — UltraStable 5100 and M5100 Series

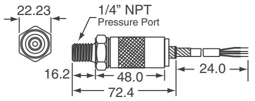

	MSP-100	MSP-300	MSP-340	MSP-400	MSP-600	MSP-610	U5100	M5100
Pressure Range (PSIG)	0-100 ~ 500	0-100 ~ 10,000	0-100 ~ 1,000	1,000 ~ 5,000	0-25 ~ 5,000	0-100 ~ 500	0-15 ~ 500	0-25 ~ 10,000
Accuracy (combined linearity, hysteresis and repeatability)	±0.20% of FS	±1% of FS	±1% of FS	±0.50% of FS	±0.25% BSL	±0.25% of FS	±1% of FS	±0.25% of FS
Pressure Overload	1.5X	2X	2X	2X	2X	2X	3X	2X
Burst Pressure	3X	5x or 20,000 PSI whichever is less				4X	4X	5X
Outputs VDC or mA	0-100mV	0-100mV, 1-5V 0.5-4.5V, 4-20mA	0-100mV, 0.5-4.5V	1-5V, 4-20mA	0.5-4.5V 1-5V, 4-20mA	0.5-4.5V, 1-5V, 4-20mA	0.5-4.5V, 1-5V, 4-20mA	0.5-4.5V, 1-5V, 4-20mA
Zero Offset (millivolt output) (amplified output)	±2% of FS ±2% of FS	±3% of FS ±2% of FS	±3% of FS ±2% of FS	— ±2% of FS	— —	— —	— —	— —
Span Tolerance	±2% of FS	±2% of FS	±2% of FS	±2% of FS	—	—	—	—
Long-Term Stability, Typical (1 year)	±0.25%	±0.25%	±0.25%	±0.25%	±0.25%	±0.25%	±0.1%	±0.25%
Operating Temperature (°C)	0 ~ 55	-20 ~ 85	-20 ~ 85	-40 ~ 85	-40 ~ 125	-40 ~ 125	-40 ~ 125	-40 ~ 125
Compensated Range (°C)	0 ~ 55	0 ~ 55	0 ~ 55	0 ~ 70	-20 ~ 85	—	-20 ~ 85	-20 ~ 85
Thermo Zero Shift	<±2% of FS	<±2% of FS	<±2% of FS	<±1.5% of FS	—	—	—	—
Thermo Span Shift	<±2% of FS	<±2% of FS	<±2% of FS	<±1.5% of FS	—	—	—	—
Total Error Band	N/A	N/A	N/A	N/A	1.5% of FS	1.0% of FS	±0.75% of FS	1.0% of FS
EMI/RFI Protection, CE Mark	No	No	No	Yes	Yes	—	—	—
UL Listed	No	Yes	No	Yes	Yes	—	—	—

Operating Pressure Range PSIG	Voltage Supply (VDC)	Digi-Key Part No.	Price Each 1	10	Measurement Specialties Part No.
MSP-100 Series					
Calibrated 100mV Output — O-Ring Seal, 2 Foot Cable — RoHS Compliant					
100	5	MSP6900-ND	65.69	55.05	MS121-000000U-100PG
250		MSP6901-ND	65.69	55.05	MS121-000000U-250PG
500		MSP6902-ND	65.69	55.05	MS121-000000U-500PG
MSP-300 Series					
0mV ~ 100mV Output — 4 Wire Unamplified 1/4" NPT, 2 Foot Cable					
100	5	MSP3101P1-ND◆	80.94	67.82	2000130
250		MSP3251P1-ND◆	80.94	67.82	2000199
500		MSP3501P1-ND◆	80.94	67.82	2000255
1000		MSP3102P1-ND	80.94	67.82	2000045
2500		MSP3252P1-ND◆	80.94	67.82	2000222
5000		MSP3502P1-ND◆	80.94	67.82	2000096
10000		MSP3103P1-ND	80.94	67.82	2000157
0.5V ~ 4.5V Output — Ratiometric Output Voltage to Input Voltage 3 Wire Supply Current 10mA Maximum 1/4" NPT, 2 Foot Cable					
100	5	MSP3101P2-ND◆	104.06	87.19	2000131
250	5	MSP3251P2-ND◆	104.06	87.19	2000202
500		MSP3501P2-ND◆	104.06	87.19	2000260
1000		MSP3102P2-ND◆	104.06	87.19	2000046
2500		MSP3252P2-ND◆	104.06	87.19	2000223
5000		MSP3502P2-ND	104.06	87.19	2000099
10000		MSP3103P2-ND◆	104.06	87.19	2000158
1V ~ 5V Output — Fixed - 3 Wire Supply Current 10mA Maximum 1/4" NPT, 2 Foot Cable					
100	10 ~ 32	MSP3101P3-ND◆	109.85	92.04	2000133
250		MSP3251P3-ND◆	109.85	92.04	2000204
500		MSP3501P3-ND◆	109.85	92.04	2000262
1000		MSP3102P3-ND	109.85	92.04	2000048
2500		MSP3252P3-ND◆	109.85	92.04	2000226
5000		MSP3502P3-ND◆	109.85	92.04	2000100
10000		MSP3103P3-ND◆	109.85	92.04	2000159
1V ~ 5V — Output 1/8" NPT, 2 Foot Cable — RoHS Compliant					
100	10 ~ 32	MSP3101P4A1-ND	109.85	92.04	2000132
250		MSP3251P4A1-ND	109.85	92.04	2000203

◆ ***RoHS Compliant***

(Continued)

Rugged Stainless Steel Pressure Transducers Featuring Microfused Technology *(Cont.)*

Operating Pressure Range PSIG	Voltage Supply (VDC)	Digi-Key Part No.	Price Each 1	Price Each 10	Measurement Specialties Part No.
500	10 ~ 32	MSP3501P4A1-ND	109.85	92.04	2000261
1000		MSP3102P4A1-ND	109.85	92.04	2000047
4mA ~ 20mA Output — 2 Wire Regulated Supply 1/4" NPT, 2 Foot Cable					
100	10 ~ 32	MSP3101P4-ND◆	109.38	93.75	2000137
250		MSP3251P4-ND◆	109.38	93.75	2000207
500		MSP3501P4-ND◆	109.38	93.75	2000264
1000		MSP3102P4-ND	109.38	93.75	2000050
2500		MSP3252P4-ND	109.38	93.75	2000227
5000		MSP3502P4-ND◆	109.38	93.75	2000101
10000		MSP3103P4-ND◆	109.38	93.75	2000160
4mA ~ 20mA Output — 1/8" NPT, 2 Foot Cable					
100	10 ~ 32	MSP3101P5A1-ND	109.38	93.75	2000136
250		MSP3251P5A1-ND◆	109.38	93.75	2000206
500		MSP3501P5A1-ND◆	109.38	93.75	2000263
1000		MSP3102P5A1-ND	109.38	93.75	2000049
MSP-340 Series — RoHS Compliant					
100mV Output — 1/8" NPT, 2 Foot Cable					
100	5	MSP6892-ND	96.16	80.57	M3421-000006-100PG
300		MSP6893-ND	96.16	80.57	M3421-000006-300PG
500		MSP6894-ND	96.16	80.57	M3421-000006-500PG
1000		MSP6895-ND	96.16	80.57	M3421-000006-01KPG
0.5V ~ 4.5V Output — 1/8" NPT, 2 Foot Cable					
100	5	MSP6896-ND	112.39	94.17	M3431-000006-100PG
300		MSP6897-ND	112.39	94.17	M3431-000006-300PG
500		MSP6898-ND	112.39	94.17	M3431-000006-500PG
1000		MSP6899-ND	112.39	94.17	M3431-000006-01KPG
MSP-400 Series — RoHS Compliant					
1V ~ 5V Output — Fixed 3 Wire Supply Current 10mA maximum 1/4" NPT, 2 Foot Cable					
5000	10 ~ 32	MSP4502P3-ND	94.50	81.00	2000455
4mA ~ 20mA Output — 2 Wire Regulated Supply 1/4" NPT, 2 Foot Cable					
1000	10 ~ 32	MSP4102P4-ND	108.50	93.00	2000417
5000		MSP4502P4-ND	108.50	93.00	2000457
MSP-600 Series — RoHS Compliant					
0.5VDC ~ 4.5VDC Output — 7/16" SAE, Packard Connector					
25	5	MSP6025P3-4-ND	96.25	82.50	2000964
50		MSP6050P3-4-ND	96.25	82.50	2000965
75		MSP6075P3-4-ND	96.25	82.50	2000966
100		MSP6101P3-4-ND	96.25	82.50	2000967
500		MSP6501P3-4-ND	96.25	82.50	2000969
1000		MSP6102P3-4-ND	96.25	82.50	2000970
1VDC ~ 5VDC Output — 1/4" NPT, 2 Foot Cable					
75	10 ~ 30	MSP6075P4-1-ND	101.50	87.00	2000884
4mA ~ 20mA Output — 1/4" NPT, 2 Foot Cable					
50	10 ~ 30	MSP6050P5-1-ND	119.00	102.00	2000879
75		MSP6075P5-1-ND	119.00	102.00	2000885
2500		MSP6252P5-1-ND	119.00	102.00	2000915
MSP-610 Series — RoHS Compliant					
0.5V ~ 4.5V Output — 1/8" NPT, 2 Foot Cable					
300	5	MSP6906-ND	114.19	97.88	M6131-C00006-300PG
500		MSP6907-ND	114.19	97.88	M6131-C00006-500PG
0.5V ~ 4.5V Output — 1/4" NPT, 2 Foot Cable					
100	5	MSP6903-ND	114.19	97.88	M6131-C00005-100PG
500		MSP6905-ND	114.19	97.88	M6131-C00005-500PG
1V ~ 5V Output — 1/4" NPT, 2 Foot Cable					
100	8 ~ 30	MSP6908-ND	119.00	102.00	M6141-C00005-100PG
300		MSP6909-ND	119.00	102.00	M6141-C00005-300PG
500		MSP6910-ND	119.00	102.00	M6141-C00005-500PG
4mA ~ 20mA Output — 1/4" NPT, 2 Foot Cable					
100	10 ~ 30	MSP6911-ND	135.63	116.25	M6181-C00005-100PG
300		MSP6912-ND	135.63	116.25	M6181-C00005-300PG
500		MSP6913-ND	135.63	116.25	M6181-C00005-500PG
UltraStable 5100 Series — RoHS Compliant					
0.5V ~ 4.5V Ratiometric Output — 1/4" NPT, Absolute Pressure, 2 Foot Cable					
15PSIA	4.75 ~ 5.25	223-1000-ND	175.00	150.00	U5131-000005-015PA
30PSIA		223-1002-ND	175.00	150.00	U5131-000005-030PA
100PSIA		223-1004-ND	175.00	150.00	U5131-000005-100PA

Operating Pressure Range PSIG	Voltage Supply (VDC)	Digi-Key Part No.	Price Each 1	Price Each 10	Measurement Specialties Part No.
4mA ~ 20mA Output — 1/4" NPT, Absolute Pressure, 2 Foot Cable					
15PSIA	9 ~ 30	223-1007-ND	211.41	179.38	U5151-000005-015PA
30PSIA		223-1009-ND	211.41	179.38	U5151-000005-030PA
100PSIA		223-1011-ND	211.41	179.38	U5151-000005-100PA
0.5V ~ 4.5V Ratiometric Output — 1/4" NPT, 2 Foot Cable					
15	4.75 ~ 5.25	223-1001-ND	175.00	150.00	U5131-000005-015PG
30		223-1003-ND	175.00	150.00	U5131-000005-030PG
100		223-1005-ND	175.00	150.00	U5131-000005-100PG
500		223-1006-ND	175.00	150.00	U5131-000005-500PG
4mA ~ 20mA Output — 1/4" NPT, 2 Foot Cable					
15	9 ~ 30	223-1008-ND	211.41	179.38	U5151-000005-015PG
30		223-1010-ND	211.41	179.38	U5151-000005-030PG
100		223-1012-ND	211.41	179.38	U5151-000005-100PG
500		223-1013-ND	211.41	179.38	U5151-000005-500PG
M5100 Series — RoHS Compliant					
0.5V ~ 4.5V Ratiometric Output — 1/4" NPT, 2 Foot Cable					
50	4.75 ~ 5.25	223-1038-ND	114.84	98.44	M5131-000005-050PG
75		223-1041-ND	114.84	98.44	M5131-000005-075PG
100		223-1020-ND	114.84	98.44	M5131-000005-100PG
250		223-1026-ND	114.84	98.44	M5131-000005-250PG
500		223-1032-ND	114.85	98.45	M5131-000005-500PG
1000	4.75 ~ 5.25	223-1014-ND	114.84	98.44	M5131-000005-01KPG
2500		223-1029-ND	114.84	98.44	M5131-000005-2K5PG
5000		223-1017-ND	114.84	98.44	M5131-000005-05KPG
10000		223-1023-ND	114.84	98.44	M5131-000005-10KPG
1V ~ 5V Output — 1/4" NPT, 2 Foot Cable					
50	8 ~ 30	223-1039-ND	120.31	103.13	M5141-000005-050PG
75		223-1042-ND	120.31	103.13	M5141-000005-075PG
100		223-1021-ND	120.31	103.13	M5141-000005-100PG
250		223-1027-ND	120.31	103.13	M5141-000005-250PG
500		223-1033-ND	120.31	103.13	M5141-000005-500PG
1000	8 ~ 30	223-1015-ND	120.31	103.13	M5141-000005-01KPG
2500		223-1030-ND	120.31	103.13	M5141-000005-2K5PG
5000		223-1018-ND	120.31	103.13	M5141-000005-05KPG
10000		223-1024-ND	120.31	103.13	M5141-000005-10KPG
4mA ~ 20mA Output — 1/4" NPT, 2 Foot Cable					
50	9 ~ 30	223-1040-ND	125.78	107.82	M5151-000005-050PG
75		223-1043-ND	125.78	107.82	M5151-000005-075PG
100		223-1022-ND	125.78	107.82	M5151-000005-100PG
250		223-1028-ND	125.78	107.82	M5151-000005-250PG
500		223-1034-ND	125.78	107.82	M5151-000005-500PG
1000	9 ~ 30	223-1016-ND	125.78	107.82	M5151-000005-01KPG
2500		223-1031-ND	125.78	107.82	M5151-000005-2K5PG
5000		223-1019-ND	125.78	107.82	M5151-000005-05KPG
10000		223-1025-ND	125.78	107.82	M5151-000005-10KPG
0.5V ~ 4.5V Ratiometric Output — 7/16" UNF Male, O-Ring, Packard Connector					
50	4.75 ~ 5.25	223-1045-ND	114.84	98.44	M5134-000004-050PG
75		223-1046-ND	114.84	98.44	M5134-000004-075PG
100		223-1047-ND	114.84	98.44	M5134-000004-100PG
250		223-1048-ND	114.84	98.44	M5134-000004-250PG
500		223-1049-ND	114.84	98.44	M5134-000004-500PG
1000	4.75 ~ 5.25	223-1050-ND	114.84	98.44	M5134-000004-01KPG
2500		223-1051-ND	114.84	98.44	M5134-000004-2K5PG
5000		223-1052-ND	114.84	98.44	M5134-000004-05KPG
7500		223-1074-ND	114.84	98.44	M5134-000004-7K5PG
10000		223-1053-ND	114.84	98.44	M5134-000004-10KPG
1V ~ 5V Output — 7/16" UNF Male, O-Ring, Packard Connector					
50	8 ~ 30	223-1055-ND	120.31	103.13	M5144-000004-050PG
75		223-1056-ND	120.31	103.13	M5144-000004-075PG
100		223-1057-ND	120.31	103.13	M5144-000004-100PG
250		223-1058-ND	120.31	103.13	M5144-000004-250PG
500		223-1059-ND	120.31	103.13	M5144-000004-500PG
1000	8 ~ 30	223-1060-ND	120.31	103.13	M5144-000004-01KPG
2500		223-1061-ND	120.31	103.13	M5144-000004-2K5PG
5000		223-1062-ND	120.31	103.13	M5144-000004-05KPG
7500		223-1075-ND	120.31	103.13	M5144-000004-7K5PG
10000		223-1063-ND	120.31	103.13	M5144-000004-10KPG
4mA ~ 20mA Output — 7/16" UNF Male, O-Ring, Packard Connector					
50	9 ~ 30	223-1065-ND	125.78	107.82	M5154-000004-050PG
75		223-1066-ND	125.78	107.82	M5154-000004-075PG
100		223-1067-ND	125.78	107.82	M5154-000004-100PG
250		223-1068-ND	125.78	107.82	M5154-000004-250PG
500		223-1069-ND	125.78	107.82	M5154-000004-500PG
1000	9 ~ 30	223-1070-ND	125.78	107.82	M5154-000004-01KPG
2500		223-1071-ND	125.78	107.82	M5154-000004-2K5PG
5000		223-1072-ND	125.78	107.82	M5154-000004-05KPG
7500		223-1076-ND	125.78	107.82	M5154-000004-7K5PG
10000		223-1073-ND	125.78	107.82	M5154-000004-10KPG

◆ *RoHS Compliant*

SSI Technologies, Inc.
Controls Division

NEW! Cable Harnesses

Pre-made Cable Harnesses from SSI Technology with the industry standard Packard™ Automotive Connector.

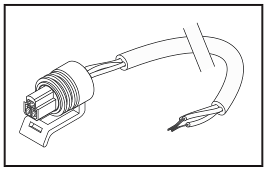

Description	Length Inch	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	SSI Technologies Part No.
Cable Harness Packard	12	734-1163-ND	11.66	10.43	9.78	P2432.3
Cable Harness Packard	36	734-1164-ND	20.90	20.05	18.14	P2435.3
Cable Harness Packard	72	734-1165-ND	26.43	25.44	23.23	14306.3

measurement SPECIALTIES

PC Board Mountable Pressure Sensors Temperature Compensated

These pressure sensors are intended for cost sensitive applications where excellent performance and long-term stability are required. Integral temperature compensation is provided using laser-trimmed resistors. An additional laser-trimmed resistor is included to normalize pressure sensitivity variations by programming the gain of an external differential amplifier. This provides sensitivity interchangeability of ±1%.
Features: • ±0.1% Non-linearity • ±1.0% Interchangeable Span (provided by gain set resistor) • Solid State Reliability • Low Power
Specifications: • **Output:** 0-100mV typical (full scale) • **Supply Current:** 1.5mA typical • **Response Time:** 1.0mSec typical (For a zero-to-full scale pressure step change) • **Operating Temperature:** -40°C ~ 125°C

Dimensions in mm

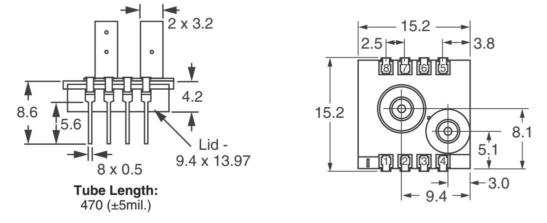

Model 1210/1220 – Low Pressure:
- 0°C ~ 50°C Temperature Compensation Range • 1.0% Temperature Performance

Model 1230/1240 – UltraStable™:
- -20°C ~ 85°C Temperature Compensation Range • ±0.5% Temperature Performance

Model 1210/1220 – Medium Pressure:
- 0°C ~ 50°C Temperature Compensation Range • 0.5 ~ 1% Temperature Performance

Pressure	Pressure Type	Package	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
Model 1210 / 1220 - Low and Medium Pressure — RoHS Compliant							
0-1PSID	Differential	8-Pin Dip	MSP6940-ND	36.58	29.26	20.49	1210A-001D-3L
0-2PSID	Differential	8-Pin Dip	MSP6814-ND	36.58	29.26	20.49	1210A-002D-3L
0-5PSID	Differential	8-Pin Dip	MSP6816-ND	36.58	29.26	20.49	1220A-005D-3L
0-15PSID	Differential	8-Pin Dip	MSP6941-ND	36.58	29.26	20.49	1210A-015D-3L
0-15PSID	Differential	8-Pin Dip	MSP6943-ND	36.58	29.26	20.49	1220A-015D-3L
0-100PSID	Differential	8-Pin Dip	MSP6942-ND	36.58	29.26	20.49	1210A-100D-3L
0-100PSID	Differential	8-Pin Dip	MSP6944-ND	36.58	29.26	20.49	1220A-100D-3L
Model 1230 / 1240 - Ultrastable							
0-15PSID	Differential	8-Pin Dip	MSP6819-ND	46.80	37.44	26.21	1240-015D-3L
0-15PSID	Differential	8-Pin Dip	MSP6945-ND◆	46.80	37.44	26.21	1230-015D-3L
0-30PSID	Differential	8-Pin Dip	MSP6822-ND◆	46.80	37.44	26.21	1230-030D-3L
0-100PSID	Differential	8-Pin Dip	MSP6828-ND	46.80	37.44	26.21	1230-100D-3L
0-100PSID	Differential	8-Pin Dip	MSP6829-ND◆	46.80	37.44	26.21	1240-100D-3L

◆ *RoHS Compliant*

NEW! PC Board Mountable Pressure Sensors 44xx Series

RoHS COMPLIANT

Fig. 1

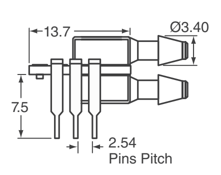

Fig. 2

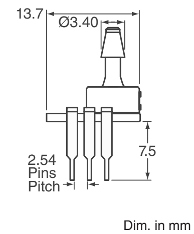

Model 4425 and 4426

These pressure sensors are temperature compensated, piezoresistive silicon pressure sensors packaged in a dual-in-line configuration and intended for cost sensitive applications where excellent performance and long-term stability are required. **Features:** • Dual in-line package • Solid state reliability **Specifications:** • Output: 0 ~ 100mV • Supply voltage: 12V (typical) • Operating temperature range: -25°C ~ 85°C

Pressure	Pressure Type	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
Fig. 1 — Model 4425						
1PSID	Differential	223-1089-ND	33.10	28.97	23.17	4425-001D
5PSID	Differential	223-1090-ND	33.10	28.97	23.17	4425-005D
15PSID	Differential	223-1091-ND	33.10	28.97	23.17	4425-015D
15PSIA	Absolute	223-1092-ND	33.10	28.97	23.17	4425-015A
100PSID	Differential	223-1093-ND	33.10	28.97	23.17	4425-100D
Fig. 2 — Model 4426						
1PSIG	Gage	223-1094-ND	33.10	28.97	23.17	4426-001G
5PSIG	Gage	223-1095-ND	33.10	28.97	23.17	4426-005G
15PSIG	Gage	223-1096-ND	33.10	28.97	23.17	4426-015G
15PSIA	Absolute	223-1097-ND	33.10	28.97	23.17	4426-015A

PC Board Mountable Pressure Sensors

Model 1451

This pressure sensor is intended for high volume applications where small size, light weight, low cost, and compatibility with automated assembly equipment are required.
Features: • SMT Package • ±0.25% Pressure Non-linearity • 3 Pressure Port Options • Solid State Reliability • Low Power **Specifications:** • **Output:** 0 ~ 60mV • **Supply Voltage:** 3VDC • **Response Time:** 1.0mSec typical • **Operating Temperature:** -40°C ~ 125°C

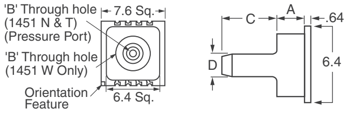

Package	Dimensions (mm) A	B	C	D
Narrow Hole	2.79	0.78	—	—
Wide Hole	2.79	4.06	—	—
Tube	2.79	0.78	5.59	2.29

Pressure	Pressure Type	Package	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
0-5PSIG	Gage	Tube	MSP6800-ND◆	28.33	23.18	15.45	1451-005G-T
0-5PSIA	Absolute	Wide	MSP6801-ND	28.33	23.18	15.45	1451-005A-W
0-15PSIA	Absolute	Narrow	MSP6802-ND◆	28.33	23.18	15.45	1451-015A-N
0-15PSIG	Gage	Tube	MSP6803-ND◆	28.33	23.18	15.45	1451-015G-T
0-30PSIA	Absolute	Narrow	MSP6805-ND	28.33	23.18	15.45	1451-030A-N
0-30PSIG	Gage	Tube	MSP6806-ND	28.33	23.18	15.45	1451-030G-T
0-30PSIA	Absolute	Wide	MSP6807-ND	28.33	23.18	15.45	1451-030A-W
0-50PSIA	Absolute	Narrow	MSP6808-ND◆	28.33	23.18	15.45	1451-050A-N
0-50PSIG	Gage	Tube	MSP6809-ND◆	28.33	23.18	15.45	1451-050G-T
0-50PSIA	Absolute	Wide	MSP6810-ND	28.33	23.18	15.45	1451-050A-W
0-100PSIA	Absolute	Narrow	MSP6811-ND◆	28.33	23.18	15.45	1451-100A-N
0-100PSIG	Gage	Tube	MSP6812-ND◆	28.33	23.18	15.45	1451-100G-T
0-100PSIA	Absolute	Wide	MSP6813-ND◆	28.33	23.18	15.45	1451-100A-W

◆ *RoHS Compliant*

UltraStable™ Stainless Steel Pressure Sensors Ribbon Cable with Connector

Features: • Gage Pressure type • -20°C ~ 85°C Compensated temperature range • ±1.0% Interchangeable Span (provided by gain set resistor) • High performance • Small profile • Solid State reliability • Low power • ±0.1% Pressure non-linearity

Specifications: • **Output:** 0mV~100mV • **Supply Current:** 1.5mA typical (guarantees output/input ratiometricity) • **Operating Temperature:** -40°C ~ 125°C

Fig.	Pressure	Output Load Res.	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
Model 82 , O-Ring Flush Mount — RoHS Compliant							
1	0-1PSIG	5MΩ Min.	MSP6927-ND	97.96	82.08	71.49	82-001G-C
	0-15PSIG		MSP6928-ND	76.85	64.39	56.08	82-015G-C
	0-30PSIG		MSP6929-ND	76.85	64.39	56.08	82-030G-C
	0-100PSIG		MSP6930-ND	76.85	64.39	56.08	82-100G-C
	0-300PSIG		MSP6931-ND	76.85	64.39	56.08	82-300G-C
	0-15PSIA	5MΩ Min.	MSP6932-ND	76.85	64.39	56.08	82-015A-C
	0-30PSIA		MSP6933-ND	76.85	64.39	56.08	82-030A-C
	0-100PSIA		MSP6934-ND	76.85	64.39	56.08	82-100A-C
	0-300PSIA		MSP6935-ND	76.85	64.39	56.08	82-300A-C
	0-500PSIA		MSP6936-ND	76.85	64.39	56.08	82-500A-C
Model 85, 1/4" - 18 NPT							
2	0-15PSIG	5MΩ Min.	MSP6853-ND	76.85	64.39	56.08	85-015G-4C
	0-30PSIG		MSP6854-ND◆	76.85	64.39	56.08	85-030G-4C
	0-50PSIG		MSP6855-ND◆	76.85	64.39	56.08	85-050G-4C
	0-100PSIG		MSP6856-ND◆	76.85	64.39	56.08	85-100G-4C
	0-300PSIG		MSP6857-ND◆	76.85	64.39	56.08	85-300G-4C
	0-500PSIG		MSP6858-ND◆	76.85	64.39	56.08	85-500G-4C
	0-15PSIA	5MΩ Min.	MSP6916-ND◆	76.85	64.39	56.08	85-015A-4C
	0-30PSIA		MSP6917-ND◆	76.85	64.39	56.08	85-030A-4C

Fig. 1

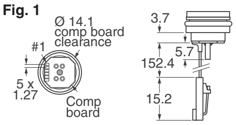

Fig. 2

Model	Dimensions (mm) A	B	C
1/8 - 27 NPT	22.2	19.1	9.5
1/4 - 18 NPT	15.9	18.5	6.2

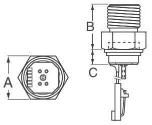

Fig.	Pressure	Output Load Res.	Digi-Key Part No.	Price Each 1	10	100	Measurement Specialties Part No.
2	0-100PSIA	5MΩ Min.	MSP6918-ND◆	76.85	64.39	56.08	85-100A-4C
	0-300PSIA		MSP6919-ND◆	76.79	64.35	56.04	85-300A-4C
	0-500PSIA		MSP6920-ND◆	76.85	64.39	56.08	85-500A-4C
Model 86, O-Ring Flush Mount							
1	0-5PSIG	1MΩ Min.	MSP6859-ND◆	73.59	61.66	53.71	86-005G-C
	0-15PSIG		MSP6860-ND◆	73.59	61.66	53.71	86-015G-C
	0-30PSIG		MSP6861-ND◆	73.59	61.66	53.71	86-030G-C
	0-50PSIG		MSP6862-ND◆	73.59	61.66	53.71	86-050G-C
	0-100PSIG		MSP6863-ND◆	73.59	61.66	53.71	86-100G-C
	0-300PSIG		MSP6864-ND	73.59	61.66	53.71	86-300G-C
	0-500PSIG		MSP6865-ND	73.59	61.66	53.71	86-500G-C
	0-5PSIA	5MΩ Min.	MSP6921-ND◆	73.59	61.66	53.71	86-005A-C
	0-15PSIA		MSP6922-ND◆	73.59	61.66	53.71	86-015A-C
	0-100PSIA		MSP6924-ND◆	73.59	61.66	53.71	86-100A-C
	0-300PSIA		MSP6925-ND◆	73.59	61.66	53.71	86-300A-C
	0-500PSIA		MSP6926-ND◆	73.59	61.66	53.71	86-500A-C
Model 87N, 1/8" - 27 NPT — RoHS Compliant							
2	0-1000PSIA	5MΩ Min.	MSP6937-ND	81.18	68.02	59.24	87N-1000A-8C
	0-3000PSIA		MSP6938-ND	81.18	68.02	59.24	87N-3000A-8C
	0-5000PSIA		MSP6939-ND	81.18	68.02	59.24	87N-5000A-8C

◆ *RoHS Compliant*

GCD-SE Series Gage Heads - Precision Spring-Loaded

Features: • CE compliance • Heavy-duty, all welded construction • Unipolar ranges: 0.1" ~ 2.0" • 8.5VDC ~ 28VDC operation • Low power consumption • May be battery operated • 0VDC ~ 5VDC and 1VDC ~ 6VDC outputs • New heavy duty front end • Hermetically sealed design

GCD-SE Series Model No.	Linear Range Inches (mm)	Digi-Key Part No.	Price Each			Measurement Part No.
			1	5	10	
GCD-SE-100	0.10 (2.54)	356-1005-ND	504.21	450.65	423.54	02351006-000
GCD-SE-250	0.25 (6.35)	356-1006-ND	568.91	508.26	478.14	02351007-000
GCD-SE-500	0.50 (12.7)	356-1007-ND	643.35	575.58	540.54	02351008-000
GCD-SE-1000	1.0 (25.4)	356-1008-ND	677.58	606.36	569.40	02351009-000
GCD-SE-2000	2.0 (50.8)	356-1009-ND	731.71	654.89	614.64	02351010-000

AccuStar® II Clinometer

AccuStar II combines the function of two clinometers in one package. The unique dome shaped design features a capacitance based sensor which produces output signals directly proportional to the relative tilt in two axis.

Features: • Two clinometers in one package • Adaptable design DC powered • Ratiometric and PW digital output in one model • Trimmable DC output

Description	Linear Range	Operating Temp. Range	Digi-Key Part No.	Price Each			Measurement Part No.
				1	10	25	
Dual Axis Clinometer	±20°	-20°C ~ 75°C	356-1034-ND	116.07	110.27	104.47	02119011-000

Rotary Variable Inductance Transducer (RVIT)

The R120LC is a DC operated noncontact rotary transducer.

Description	Full Range	Input Voltage	Output Voltage	Digi-Key Part No.	Price Each			Measurement Part No.
					1	5	20	
R120LC Transducer	±60°	4.75-5.25VDC	0.5-4.5VDC	356-1076-ND	134.55	123.34	112.13	02183000-000

AngleStar® Digital Protractor

The AngleStar Digital Protractor Model DP-45 provides instant digital display of level, angle and tilt.

Features: • Reads in degrees • Alternate reference (floating zero) • Display hold • High impact plastic carrying case

Description	Linear Range	Operating Temperature Range	Digi-Key Part No.	Price Each			Measurement Part No.
				1	5	20	
Digital Protractor Model DP-45	±45°	0°C ~ 65°C	356-1035-ND	333.19	313.78	283.59	02475-01

DC Powered Voltage Module

The LVM-110 Module is a DC-powered LVDT signal conditioner board consisting of a carrier oscillator, AC amplifier, demodulator, filter, and DC amplifier.

Features: • DC powered • Zero and span controls • Six jumper selectable gains • Plug-in, card edge, or stand-off installation • 2.5kHz, 5kHz or 10kHz excitation

Description	Operating Range	Power Range	Digi-Key Part No.	Price Each			Measurement Part No.
				1	5	10	
LVDT Signal Conditioner Board	3.5 ± 10% Vrms	2.5kHz, 5kHz, 10kHz	356-1001-ND	151.24	140.99	132.44	04171776-000

Dual Channel LVDT Readout/Controller

The Measurement Specialties microprocessor based LVDT indicator and set-point controller is designed for industrial and process control applications utilizing any LVDT/RVDT-based measurement device.

Features: • 1/4 DIN aluminum case • EL back-lit • LCD display • Standard 9-Pin RS-232 Connector

Description	Linear Range	Operating Temperature Range	Digi-Key Part No.	Price Each	Measurement Part No.
MP2000 Series	<±0.02%	0°C ~ 55°C	356-1075-ND	875.00	02291335-000

AccuStar® Electronic Clinometers

The AccuStar Electronic Clinometer is an extremely accurate angle measurement device. This compact and rugged sensor is ideal where space is critical and environmental conditions are serious design concerns.

Features: • CE certified • Just 2" in diameter • Rugged plastic housing • Extremely accurate • Weighs only 2 oz.

Description	Linear Range	Operating Temperature Range	Digi-Key Part No.	Price Each			Measurement Part No.
				1	10	25	
Single Axis Ratiometric Vertical Flange	±45°	-30°C ~ 65°C	356-1032-ND	140.66	129.53	118.40	02110002-000
Single Axis Ratiometric Horizontal Flange	±45°	-30°C ~ 65°C	356-1033-ND	140.66	129.53	118.40	02110102-000

Ares Series Pressure Transducers

The Ares Series is a small, low cost pressure transducer, which is able to measure pressures as low as 0 ~ 5, 0 ~ 10, 0 ~ 15 inches of water, and 0 ~ 1psig.

Features:
- Very low pressure ranges
- Small size
- PCB mountable
- Solder reflow capability
- Barbed pressure ports

LM Series Pressure Sensors

The LM Series incorporates stainless steel and plastic isolation suitable for water, other fluid and gas.

Features:
- Low pressure ranges
- High level output
- Small size
- Plastic fitting

Description	Output Voltage	Standard Pressure Range	Accuracy % FSO	Digi-Key Part No.	Price Each			Measurement Part No.
					1	10	25	
Ares Series								
PCB Mount	0.5-4.5V	5" H_2O	0.25	356-1036-ND◆	32.91	26.54	22.47	GA100-005WD
PCB Mount	0.5-4.5V	10" H_2O	0.50	356-1037-ND	32.91	26.54	22.47	GA100-010WD
PCB Mount	0.5-4.5V	15" H_2O	0.50	356-1038-ND	32.91	26.54	22.47	GA100-015WD
PCB Mount	0.5-4.5V	1PSI	0.75	356-1039-ND◆	32.91	26.54	22.47	GA100-001PD
PCB Mount	0.25-4.5V	5" H_2O	0.25	356-1040-ND	32.91	26.54	22.47	GA200-005WD
PCB Mount	0.25-4.5V	10" H_2O	0.50	356-1041-ND	32.91	26.54	22.47	GA200-010WD
PCB Mount	0.25-4.5V	15" H_2O	0.50	356-1042-ND	32.91	26.54	22.47	GA200-015WD
PCB Mount	0.25-4.5V	1PSI	1.2	356-1043-ND	32.91	26.54	22.47	GA200-001PD
LM Series — RoHS Compliant								
1/2" NPT, Plastic Fitting	0.5-4.5V	1PSI	0.25	356-1072-ND	116.13	94.27	76.78	LM31-00000F-001PG
1/2" NPT, Plastic Fitting	0.5-4.5V	5PSI	0.25	356-1073-ND	116.13	94.27	76.78	LM31-00000F-005PG
1/2" NPT, Plastic Fitting	0.5-4.5V	30PSI	0.25	356-1074-ND	116.13	94.27	76.78	LM31-00000F-030PG

◆ *RoHS Compliant*

High Stability Stainless Steel Pressure Transducer

The UltraStable 300/600 from Measurement Specialties, incorporates an ultra-rugged IP 67 rated housing. All wetted parts are constructed of 316 (300 Series)/316L (600 Series) stainless steel, providing media isolation and no internal "O" rings.

	U300	U600
Pressure Range (PSIG)	0-15 ~ 500	0-15 ~ 500
Accuracy (combined linearity, hysteresis & repeatability)	±0.10% of FS	±0.10% of FS
Pressure Overload	3X	3X
Burst Pressure	4x or 20,000 PSI	
Outputs VDC or mA	0.5-4.5V 4-20mA	0.5-4.5V 4-20mA
Zero Offset (amplified output)	±0.50% of FS	±0.50% of FS
Span Tolerance	±0.50% of FS	±0.50% of FS
Long-Term Stability, Typical	±0.10% of FS/Year	±0.10% of FS/Year
Operating Temperature (°F) (°C)	(-40 ~ 221) (-40 ~ 105)	(-58 ~ 257) (-50 ~ 125)
Thermo Zero Shift	±0.75% of FS	—
Thermo Span Shift	±0.75% of FS	—

Series	Operating Pressure Range	Voltage Supply	Digi-Key Part No.	Price Each			Measurement Part No.
				1	10	100	
0.5-4.5V Output — 1/4" NPT, 2 Foot Cable							
U331	15PSIG	4.75-5.25 VDC	356-1044-ND	138.89	113.89	95.84	US331-000005-015PG
	30PSIG		356-1045-ND	138.89	113.89	95.84	US331-000005-030PG
	100PSIG		356-1046-ND	138.89	113.89	95.84	US331-000005-100PG
	500PSIG		356-1047-ND	138.89	113.89	95.84	US331-000005-500PG
	15PSIA	4.75-5.25 VDC	356-1048-ND	138.89	113.89	95.84	US331-000005-015PA
	30PSIA		356-1049-ND	138.89	113.89	95.84	US331-000005-030PA
	100PSIA		356-1050-ND	138.89	113.89	95.84	US331-000005-100PA

Series	Operating Pressure Range	Voltage Supply	Digi-Key Part No.	Price Each			Measurement Part No.
				1	10	100	
4-20mA Output — 1/4" NPT, 2 Foot Cable							
U381	15PSIG	10-30 VDC	356-1051-ND	143.57	123.06	106.65	US381-000005-015PG
	30PSIG		356-1052-ND	143.57	123.06	106.65	US381-000005-030PG
	100PSIG		356-1053-ND	143.57	123.06	106.65	US381-000005-100PG
	500PSIG		356-1054-ND	143.57	123.06	106.65	US381-000005-500PG
	15PSIA	10-30 VDC	356-1055-ND	143.57	123.06	106.65	US381-000005-015PA
	30PSIA		356-1056-ND	143.57	123.06	106.65	US381-000005-030PA
	100PSIA		356-1057-ND	143.57	123.06	106.65	US381-000005-100PA
0.5-4.5V Output — 1/4" NPT, 2 Foot Cable							
U631	15PSIG	4.75-5.25 VDC	356-1058-ND	160.00	132.00	120.00	US631-C00005-015PG
	30PSIG		356-1059-ND	160.00	132.00	120.00	US631-C00005-030PG
	500PSIG		356-1061-ND	160.00	132.00	120.00	US631-C00005-500PG
	15PSIA	4.75-5.25 VDC	356-1062-ND	160.00	132.00	120.00	US631-C00005-015PA
	30PSIA		356-1063-ND	160.00	132.00	120.00	US631-C00005-030PA
4-20mA Output 1/4" NPT, 2 Foot Cable							
U681	15PSIG	10-30 VDC	356-1065-ND	205.00	173.00	153.75	US681-C00005-015PG
	30PSIG		356-1066-ND	205.00	173.00	153.75	US681-C00005-030PG
	100PSIG		356-1067-ND	205.00	173.00	153.75	US681-C00005-100PG
	500PSIG		356-1068-ND	205.00	173.00	153.75	US681-C00005-500PG
	15PSIA	10-30 VDC	356-1069-ND	205.00	173.00	153.75	US681-C00005-015PA
	30PSIA		356-1070-ND	205.00	173.00	153.75	US681-C00005-030PA
	100PSIA		356-1071-ND	205.00	173.00	153.75	US681-C00005-100PA

Load Cells

Measurement Specialties Sensors' proprietary Microfused™ technology, derived from demanding aerospace applications, employs micromachined silicon piezoresistive strain gages fused with high temperature glass to a high performance stainless steel substrate. **Features:** • Low Cost • Small Size • High Reliability • Fast Response Time • Robust: High Overrange Capability

Dimensions in mm

Fig. 1

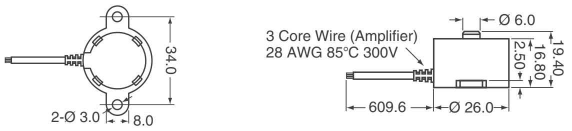

Fig. 2

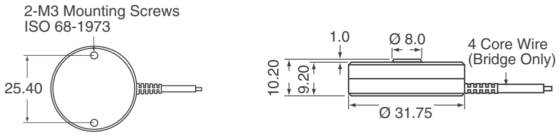

Fig.	Compression/Tension Range (Lbf)	Excitation (VDC)	Output Span Voltage @ ±5% Tolerance	Storage/Operating Temperature Range	Digi-Key Part No.	Price Each 1	10	100	Measurement Part No.
1	10	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6948-ND	55.61	44.79	34.38	FC2231-0000-0010-L
	25	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6949-ND	55.61	44.79	34.38	FC2231-0000-0025-L
	50	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6950-ND	55.61	44.79	34.38	FC2231-0000-0050-L
2	250	5.0	10.0 mV/V	-40°C ~ 85°C	MSP6952-ND	111.56	86.19	69.98	FC2311-0000-0250-L
	500	5.0	10.0 mV/V	-40°C ~ 85°C	MSP6953-ND	111.56	86.21	69.98	FC2311-0000-0500-L
	1000	5.0	10.0 mV/V	-40°C ~ 85°C	MSP6954-ND	111.56	86.19	69.98	FC2311-0000-1000-L
	2000	5.0	10.0 mV/V	-40°C ~ 85°C	MSP6955-ND	111.56	86.21	69.98	FC2311-0000-2000-L

Δ Compression/Tension Range (Gf)

Senstronics Sensors with Temperature Output

Senstronics Storm Series is a unique product providing a lifetime of accuracy for combined pressure/temperature applications used in harsh media requiring stainless steel wetted parts. The 17-4PH stainless steel sensor design allows for a wide range of temperature and provides a rugged design that can withstand high levels of shock and vibration. **Specifications:** • 1/4 NPTF ***Note:*** Mating harness included with each sensor.

Operating Pressure Range (PSIG)	Operating Temp. Range	Output Voltage	Supply Voltage Range (V)	Digi-Key Part No.	Price Each 1	10	100	Senstronics Part No.
250	-40°C ~ 125°C	.5 ~ 4.5	8 ~ 30	ST00638-ND	52.80	—	—	ST00638
500	-40°C ~ 125°C	.5 ~ 4.5	8 ~ 30	ST00223-ND	52.80	—	—	ST00223

Dimensions in mm

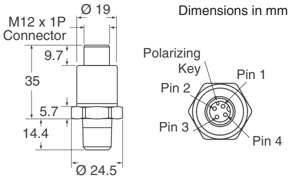

Sensors

The relative humidity sensors by Humirel are based on capacitive cell technology using a patented solid polymer structure. They are fully interchangeable with no calibration required in standard conditions. Suitable for linear voltage or frequency output circuitry. An NTC thermistor is used for temperature measurement. The RH modules are based on the HS1101LF capacitive humidity sensor and are voltage output devices. The RH/Temperature modules include a NTC thermistor for temperature measurement and are voltage or frequency output.

Features: • High reliability and long term stability • Instantaneous desaturation after long periods in saturation conditions • Fast response times • Patented solid polymer structure

Fig. 1

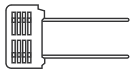

Fig. 2

Fig. 3

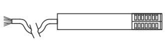

Fig. 4

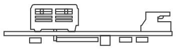

Fig. 5

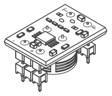

Fig. 6

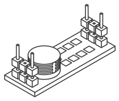

Fig.	Description	Supply Voltage (Typ.)	Nom. Cap. @ 55% RH	Response Time	Nominal Out	RH Measuring Range	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100
					Sensors						
1	RH Sensor Side Opening	—	180pF	5 Sec.	—	1 ~ 99% RH	-40°C ~ 100°C	HS1101-ND	11.85	10.51	8.69
1	RH Sensor Side Opening	5V		—			-60°C ~ 140°C	HS1101LF-ND◆	13.11	11.63	9.84
2	Temp./RH Sensor SMD Side Opening	5V		10 Sec.			-60°C ~ 140°C	HTS2030SMD-ND◆	20.25	17.96	15.19
					Modules						
3	Temp./RH Module Voltage Output	5V	—	—	2.48V @ 55% RH	1 ~ 99% RH	-30°C ~ 70°C	HTM2500-ND	72.55	64.78	51.82
4	Temp./RH Module Freq. Output JST Conn.			10 Sec.	8750 Hz @ 55% RH	0 ~ 99% RH	-30°C ~ 80°C	HTF3226LF-ND◆	19.63	18.45	14.76
5	Temp./RH Module Frequency Output Mini			10 Sec.	6600 Hz @ 55% RH	0 ~ 100% RH	-40°C ~ 85°C	HTF3000LFPVH-ND◆	22.98	21.60	17.28
6	Temp./RH Module Voltage Output Analog			10 Sec.	2.48V @ 55% RH	0 ~ 100% RH	-40°C ~ 100°C	HTM1735-ND◆	30.62	28.78	23.02
Demo Kit includes: 1 x HM1500, 1 x HM1510*, and 5 x HS1101								HDEMOKIT-ND	135.50	—	—

◆ ***RoHS Compliant*** * HM1510 - HM1500 with socket at tip to accept HS1101 to test interchangeability

Honeywell Sensing and Control Capacitive Humidity Sensors

HCH-1000 Series humidity sensor is a capacitive polymer sensor designed for relative humidity measurement. **Features:** • Polymer sensing offers enhanced resistance against contamination • Enhanced sensitivity and accuracy, fast response **Operating Temperature Range:** -40°C ~ 120°C **Operating Humidity Range:** 0% ~ 100% **HIH-4000 Series** humidity sensors are designed specifically for high volume OEM users. **Features:** • Molded thermoset plastic housing • Near linear voltage output vs % RH **Operating Temperature Range:** -40°C ~ 85°C **Operating Humidity Range:** 0% ~ 100%

HCH-1000 Series

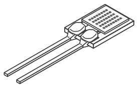

HIH-4000 Series

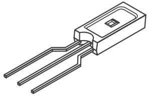

Nom. Cap. (Typ.) @ 55% RH	Sensitivity pF/% RH Min. / Max.	Response Time Sec. (Typ.)	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
			HCH-1000 Series				
330pF	0.55/0.65	15	480-2903-ND	7.74	6.88	5.59	HCH-1000-001
			480-2904-ND	7.92	7.04	5.72	HCH-1000-002

Supply Voltage (Vdc) Min. / Max.	Accuracy % RH Min. / Max.	Response Time Sec. (Typ.)	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
			HIH-4000 Series				
4/5.8	-3.5/+3.5	15	480-2905-ND	22.92	20.84	16.67	HIH-4000-001
			480-2906-ND	26.24	23.85	19.08	HIH-4000-003

TDK CHS Series Humidity Sensors

TDK's CHS Series humidity sensors are compact and extremely simple to apply. Because they contain the necessary circuitry, there is no need to provide additional control circuitry or perform time-consuming calibration. With simple connection to a power supply, they will output DC at 100% relative humidity. This makes it possible to read RH directly with a voltmeter.

Fig. 1

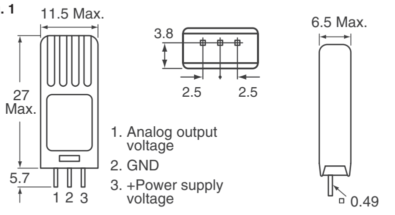

Fig. 2

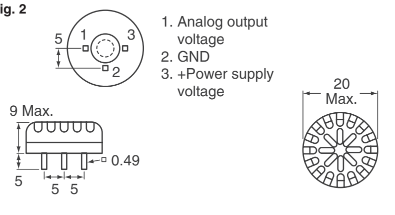

Fig. 3

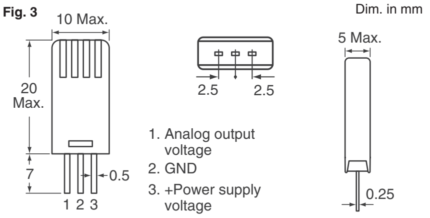

Fig.	Supply Voltage (VDC)	Measuring Range (%) RH	Nominal Accuracy RH	Digi-Key Part No.	Price Each 1	10	100	TDK Part No.
1	5	5 ~ 95	±5%	445-2577-ND	51.01	45.92	40.82	CHS-UGS
		5 ~ 95	±3%	445-2578-ND	74.40	63.77	55.27	CHS-UPS
2	5	5 ~ 95	±3%	445-2579-ND	74.40	63.77	55.27	CHS-UPR
3	5	5 ~ 90	±5%	445-2575-ND	34.01	30.61	27.21	CHS-GSS
		20 ~ 85	±5%	445-2576-ND	23.81	21.43	19.05	CHS-MSS

VISHAY BC Capacitive Humidity Sensor

The capacitive atmospheric humidity sensor consists of a non-conductive foil, which is covered on both sides with a layer of gold. The dielectric constant of the foil changes as a function of the relative humidity of the ambient atmosphere, and accordingly, the capacitance value of the sensor is a measure for relative humidity.

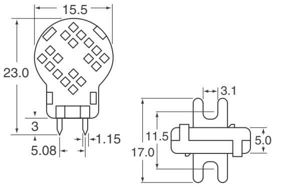

Humidity Range (RH)	Capacitance* (pF)	Sensitivity Between 12-75% RH (pF/%RH)	Frequency (kHz)	Max. AC / DC Voltage (V)	Storage Humidity Range (RH)	Ambient Temperature Range (°C) Operating	Storage	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
10 ~ 90%	122 ±15%	0.4 ±0.05	1 ~ 1000	15	0 ~ 100%	0 ~ 85	-25 ~ 85	BC2325-ND	15.17	13.64	10.75	2381 691 90001

***** Capacitance at 25°C; 43% RH; 100kHz

WORLD MAGNETICS Ultra Sensitive Pressure Switches

PSF100A Series:

Switch-type is SPST normally open, double-make/double-break. Current Rating is 40mA resistive for life in excess of twenty million cycles. • **Operating Voltage:** AC/DC-30V or less with resistive load; 120VAC neon lamp load.

PSF109S Series:

Vacuum switch with Hysteresis (deadband) for motor control. Field-adjustable vacuum set point. Switch-type is SPDT normally open, normally closed. For use with AMP 2-520182-2 or equivalent.

PSF100A

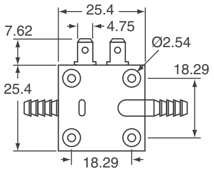

PSF109S

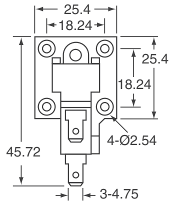

In. H_2O	Tolerance	Proof Pressure	Operating Current/Voltage	Digi-Key Part No.	Price Each 1	10	100	World Magnetics Part No.
				PSF100A Series				
15.0	±20%	15 PSI	40mA 30V AC/DC	384-1005-ND	18.94	17.99	13.44	PSF100A-15.0
50.0		15 PSI	40mA 30V AC/DC	384-1006-ND	18.94	17.99	13.44	PSF100A-50.0
				PSF109S Series Vacuum				
3 ~ 8	±20%	—	3A 125/250VAC	384-1007-ND	16.24	15.43	11.53	PSF109S-3-8
3 ~ 8		—	3A 125/250VAC	384-1020-ND	22.36	21.25	15.88	PSF109S-NPT-3-8

OMRON Capacitive Proximity Sensors

Capacitive sensors operate similar to Inductive sensors except that a plate is used instead of a coil in the sensor's head. This plate develops a capacitive field between the sensor and ground. When an object comes within sensing distance of the sensor, the capacitive field changes which gets detected by the sensor and turns on the output. Perfect for detecting both metallic and non-metallic objects such as glass, wood, water, oils and plastics. Also works well for detecting liquids and solids in containers.

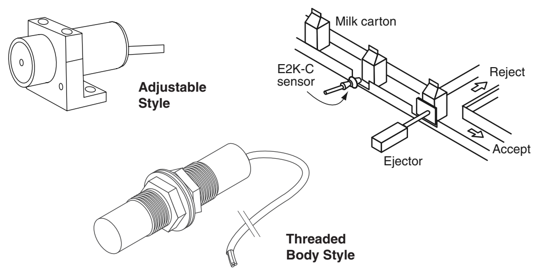

Sensing Distance	Description	Output Type	Digi-Key Part No.	Price Each	Omron Part No.
3 ~ 25mm	Amplified Sensor, Adjustable, NO, 10-40VDC	NPN	Z1071-ND	114.31	E2K-C25ME1
3 ~ 25mm	Amplified Sensor, Adjustable, NC, 10-40VDC	NPN	Z1072-ND	114.31	E2K-C25ME2
3 ~ 25mm	Amplified Sensor, Adjustable, NC, 90-250VAC	SCR	Z1073-ND	114.31	E2K-C25MY1
3 ~ 25mm	Amplified Sensor, Adjustable, NC, 90-250VAC	SCR	Z1074-ND	114.31	E2K-C25MY2
Mounting Bracket for E2K-C Sensors....................................			Z1659-ND	4.54	Y92E-A34
0 ~ 4mm	M12, 3 Wire Sensor, THD Body, NO, 10-30VDC	PNP	Z2356-ND	91.63	E2K-X4MF1
0 ~ 8mm	M18, 3 Wire Sensor, THD Body, NO, 30VDC	PNP	Z2426-ND	87.32	E2K-X8MF1
0 ~ 15mm	M30, 3 Wire Sensor, THD Body, NO, 10-30VDC	PNP	Z2427-ND	92.53	E2K-X15MF1
0 ~ 4mm	M12, 3 Wire Sensor, THD Body, NO, 10-30VDC	NPN	Z2423-ND	91.63	E2K-X4ME1
0 ~ 8mm	M18, 3 Wire Sensor, THD Body, NO, 10-30VDC	NPN	Z2424-ND	87.32	E2K-X8ME1
0 ~ 15mm	M30, 3 Wire Sensor, THD Body, NO, 10-30VDC	NPN	Z2425-ND	92.53	E2K-X15ME1
0 ~ 8mm	M18, 2 Wire Sensor, THD Body, NO, 90-250VAC	SCR	Z2421-ND	110.68	E2K-X8MY1
0 ~ 15mm	M30, 2 Wire Sensor, THD Body, NO, 90-250VAC	SCR	Z2422-ND	119.75	E2K-X15MY1

N

Photoelectric Sensors

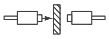
Through Beam

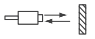
Reflective/Diffuse

Fig. 1

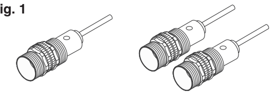

Fig. 2

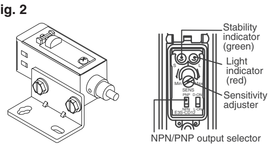

Fig. 3

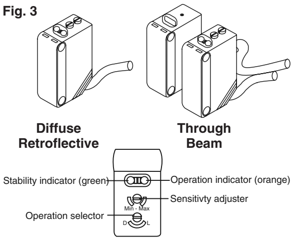

Fig. 4

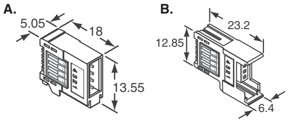

Male **Female**

Fig. 5

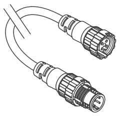
Male - Female

Photoelectric sensors consist of a light source and detector for object detection.

Through-beam sensors use a separate transmitter and receiver, which an object must pass between to block the light.

Retroflective sensors is a combined transmitter/receiver in one body and is reflected. A reflector typically is used to return the beam from the transmitter back to the receiver. Once an object is moved between the reflector and emitter/detector, the receiver output turns on.

Diffuse reflective is a combined transmitter/receiver in one body. Objects are detected by moving an object closer to the sensor directly from the front, rather than from the side. Once an object has come within the sensing distance, the amount of reflected light is sufficient to trigger the receiver output.

XN2 connectors are easy connect (e-CON) connectors with spring loaded terminals for industrial applications and fast wire termination.

XS5 connectors feature an 1/8 turn smart click connection that is fully IP67 sealed. Offered in both single and double ended styles.

Fig.	Description	Sensing Distance	Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	M18, Diffused Photoelectric Sensor, 10 ~ 30VDC, Nickel Plated Brass	3.94" (10cm)	NPN	Z1087-ND	62.60	57.96	54.10	E3F2-DS10C4-N
	M18, Diffused Photoelectric Sensor, 24 ~ 240VAC, Plastic Housing	3.94" (10cm)	NPN	Z1088-ND	72.35	66.99	62.53	E3F2-DS10Z1-N
	M18, Retroflective Photoelectric Sensor, 24 ~ 240VAC, Plastic Housing	6.56' (2m)	Light - On	Z1090-ND	74.39	68.88	64.29	E3F2-R2Z1
	M18, Through-Beam Photoelectric Sensor, 10 ~ 30VDC, Plastic Housing	9.84' (3m)	Light - On	Z1091-ND	108.86	100.80	94.08	E3F2-3Z1
2	Diffused Photoelectric Sensor, 10 ~ 30VDC, Metal Body Horizontal	27.6" (70cm)	NPN/PNP	Z1096-ND	153.32	141.96	132.50	E3S-CD11
	Diffused Photoelectric Sensor, 10 ~ 30VDC, Metal Body Horizontal	6.56' (2m)	NPN/PNP	Z1097-ND	165.11	152.88	142.69	E3S-CD12
	Diffused Photoelectric Sensor, 10 ~ 30VDC, Metal Body Vertical	27.6" (70cm)	NPN/PNP	Z1098-ND	153.32	141.96	132.50	E3S-CD61
	Diffused Photoelectric Sensor, 10 ~ 30VDC, Metal Body Vertical	6.56' (2m)	NPN/PNP	Z1099-ND	165.11	152.88	142.69	E3S-CD62
	Retroflective Photoelectric Sensor, 10 ~ 30VDC, Metal Body, Horizontal	9.84' (3m)	NPN/PNP	Z1100-ND	153.32	141.96	132.50	E3S-CR11
	Retroflective Photoelectric Sensor, 10 ~ 30VDC, Metal Body, Vertical	9.84' (3m)	NPN/PNP	Z1101-ND	153.32	141.96	132.50	E3S-CR61
	Through-Beam Photoelectric Sensor, 10 ~ 30VDC, Metal Body, Horizontal	98.43' (30m)	NPN/PNP	Z1102-ND	186.88	173.04	161.51	E3S-CT11
	Through-Beam Photoelectric Sensor, 10 ~ 30VDC, Metal Body, Vertical	98.43' (30m)	NPN/PNP	Z1103-ND	186.88	173.04	161.51	E3S-CT61
3	Compact Long Distance, Photoelectric Sensor, IR Through-Beam	49.21' (15m)	NPN	Z1106-ND	97.98	90.72	84.68	E3Z-T61
	Compact Long Distance, Photoelectric Sensor, IR Retroflective	13.12' (4m)	NPN	Z1107-ND	78.02	72.24	67.43	E3Z-R61
	Compact Long Distance, Photoelectric Sensor, IR Diffused	3.94" (10cm)	NPN	Z1108-ND	68.49	63.42	59.20	E3Z-D61OMS
	Compact Long Distance, Photoelectric Sensor, IR Diffused	3.28' (1m)	NPN	Z1109-ND	73.03	67.62	63.12	E3Z-D62
	XN2 Photo Sensor Connectors (e-CON) — RoHS Compliant							
4A	Discrete 4 Position Cable Plug - Free Hanging - Spring Clamp Type			Z2787-ND	6.27	5.65	5.02	XN2A-1430
4B	Discrete 4 Position Cable Socket - Free Hanging - Spring Clamp Type			Z2788-ND	7.27	6.55	5.82	XN2B-1430
—	PCB 4 Position Socket, Single Socket Type for PCB Mount			Z2789-ND	4.08	3.68	3.27	XN2D-1431
	PCB 4 Position Socket, Quad Socket Type for PCB Mount			Z2790-ND	7.87	7.09	6.30	XN2D-4431
	XS5 Waterproof Connectors and Cables — RoHS Compliant							
5	Single Sided Cable Assembly - 4 Conductor - Female, 2m			Z2791-ND	30.85	27.77	24.69	XS5F-D421-D80-A
	Single Sided Cable Assembly - 4 Conductor - Female, 5m			Z2792-ND	37.42	33.68	29.94	XS5F-D421-G80-A
	Single Sided Cable Assembly - 4 Conductor - Female, 10m			Z2793-ND	88.62	79.76	70.90	XS5F-D421-J80-A
	Single Sided Cable Assembly - 4 Conductor - Male, 2m			Z2794-ND	30.85	27.77	24.69	XS5H-D421-D80-A
	Single Sided Cable Assembly - 4 Conductor - Male, 5m			Z2795-ND	37.42	33.68	29.94	XS5H-D421-G80-A
	Single Sided Cable Assembly - 4 Conductor - Male, 10m			Z2796-ND	88.62	79.76	70.90	XS5H-D421-J80-A
	Double Sided Cable Assembly - 4 Conductor - Male to Female, 1m			Z2797-ND	45.15	40.64	36.13	XS5W-D421-C81-A
	Double Sided Cable Assembly - 4 Conductor - Male to Female, 2m			Z2798-ND	53.99	48.60	43.20	XS5W-D421-D81-A
	Double Sided Cable Assembly - 4 Conductor - Male to Female, 3m			Z2799-ND	53.60	48.25	42.89	XS5W-D421-E81-A
	Double Sided Cable Assembly - 4 Conductor - Male to Female, 5m			Z2800-ND	56.87	51.19	45.50	XS5W-D421-G81-A
	Double Sided Cable Assembly - 4 Conductor - Male to Female, 10m			Z2801-ND	102.80	92.52	82.24	XS5W-D421-J81-A

Optical Fiber Optic Amplifiers

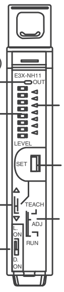

Operation Indicator (orange)
Lit when output is ON.

Incident Level Indicators (green, 8 levels)
Lit depending on the incident light amount.

UP/DOWN Selector
Select UP for increasing the threshold value.
Select Down for decreasing the threshold value.

Operation Mode Selector
Switchable between light-ON and dark-ON modes.

Threshold Indicators (red, 13 levels)
Indicates threshold level.

SET Button
For teaching or for fine threshold adjustment.

Mode Selector
Switchable among TEACH, ADJ, and RUN modes.

Omron's E3X-NH series of high performance Fiber Optic Amplifiers contain true 16 Bit processor which allows a very fine tuning sensitivity feature. Three separate teach modes for hassle free setup for different applications. Ideal for detecting very small objects or fine wires.

The E3X series feature high performance, fast switching response times. Set-mode blinking output aids in alignment. Sensing distances vary with the type of fiber used.

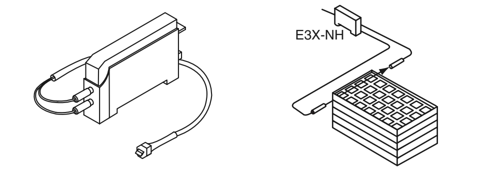

Description	Output Type	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
High Precision General Purpose Fiber Optic Amplifier, 12-24VDC	NPN	None	Z1110-ND	169.65	157.08	146.61	E3X-NH11
High Precision General Purpose Fiber Optic Amplifier, 12-24VDC	PNP	None	Z1111-ND	169.65	157.08	146.61	E3X-NH41
High Precision General Purpose Fiber Optic Amplifier with Timer 12-24VDC	NPN	with Delay Off	Z1112-ND	169.65	157.08	146.61	E3X-NH21
High Precision General Purpose Fiber Optic Amplifier with Timer 12-24VDC	PNP	with Delay Off	Z1113-ND	169.65	157.08	146.61	E3X-NH51
High Performance General Purpose Fiber Optic Amplifier with Timer 10-30VDC	NPN	with Delay Off	Z1116-ND	149.69	138.60	129.36	E3X-A21

Fiber Cables for E3X Amplifiers

Fig. 1

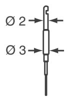

Fig. 2

Fig. 3

Fig. 4

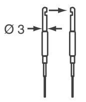

Pre-made fiber optic cables that enable very confined mounting spaces and very fast target detection. Use **Through-beam** for long distance detection where the transmit and receive cable are separated. Use **Concentric Beam** for depth detection or changing target distances where eliminating background objects is required. Periscope sensing heads (Side Beam) save space in right angle detecting. Most fiber cables offer IP67 protection and temperature ratings of -40°C ~ 70°C.

Fig.	Description	Distance Maximum	Terminal Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Diffuse Side Beam Fiber Optic Cable, 2mm diameter	.6" (1.5cm)	2m Cable	Z1118-ND	101.61	94.08	87.81	E32-D24
	Diffuse Top Beam Fiber Optic Cable, Concentric Beam, 2mm diameter	.79" (2cm)	2m Cable	Z1119-ND	69.17	64.05	59.78	E32-D32
2	Diffuse Top Beam Fiber Optic Cable, Low Cost, M6 THD	.79" (2cm)	2m Cable	Z1120-ND	47.63	44.10	41.16	E32-DC200
	Diffuse Top Beam Fiber Optic Cable, Mini, M3 THD	.71" (1.8cm)	2m Cable	Z1121-ND	57.83	53.55	49.98	E32-DC200E
	Diffuse Top Beam Fiber Optic Cable, Concentric Beam, M6 THD	3" (7.5cm)	2m Cable	Z1122-ND	52.84	48.93	45.67	E32-CC200
	Cable Fiber Optic, Top Beam, High Temperature, M6 THD	1.8" (4.5cm)	2m Cable	Z1187-ND	210.47	194.88	181.89	E32-D61
3	Diffuse Top Beam Fiber Optic Cable, Through Beam, M3 THD	4.72" (12cm)	2m Cable	Z1123-ND	47.63	44.10	41.16	E32-TC200A
	Cable Fiber Optic, Through Beam, Low Cost, M4 THD	7.88" (20cm)	2m Cable	Z1188-ND	47.63	44.10	41.16	E32-TC200
4	Through Beam Fiber Optic Cable, Side Beam, 3mm diameter	4.72" (12cm)	2m Cable	Z1124-ND	79.38	73.50	68.60	E32-T14L

OMRON

Touch Sensors

B6TS Features:
The B6TS has successfully integrated the various functions required for a capacitance touch sensor including sensitivity setting, noise processing and compensation into just one IC combined with a few peripheral components. In addition, we supply a tool called the Workbench to make full use of the IC by providing total support for all work required in designing - electrode design, sensitivity adjustment, threshold setting, mode selection and signal monitoring.

B6TW Features:
The B6TW is a tool for using the B6TS series touch sensor IC, and includes PC software and an interface board. Use of Workbench allows easy execution of the operations required in design - electrode design, sensitivity adjustment, threshold setting, mode selection and signal monitoring and makes it easy for users to incorporate highly reliable touch sensors into devices. Workbench can be used not only for product design, but also for prior verification of functions.

Functions:
- Runs on Windows PCs *(Windows XP and 2000 recommended)*
- Connects with a PC via serial communication
- Comes with an evaluation board for four or eight channels for immediate evaluation

Fig. 1

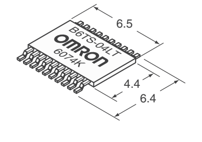

Fig. 2

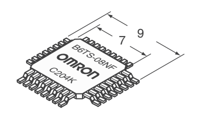

Fig. 3

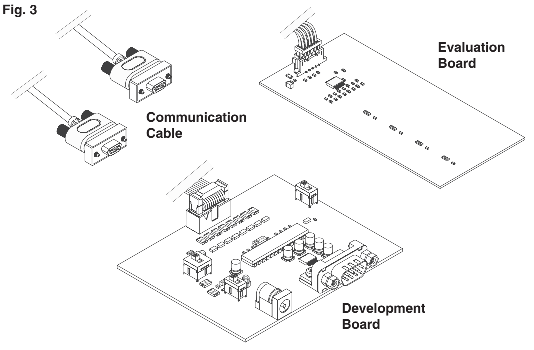

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Omron Part No.
1	4 Channel, Touch Sensor IC, 20 pin SOP	Z2564CT-ND	4.53	4.08	3.62	Z2564TR-ND	2,500	2263.00/M	B6TS-04LT
2	8 Channel, Touch Sensor IC, 34 pin QFP	Z2565-ND‡	5.30	4.77	4.24	—	—	—	B6TS-08NF
3	Development Kit, 4 Channel, Includes Software and Cable	Z2566-ND		504.90/1		—	—	—	B6TW-S04LT
	Development Kit, 8 Channel, Includes Software and Cable	Z2567-ND		504.90/1		—	—	—	B6TW-S08NF

‡ Bulk

QUANTUM RESEARCH GROUP

Sensors

QProx™/QTouch™ Charge-Transfer ("QT") General Description: These are self-contained digital capacitance ICs capable of detecting proximity, touch, and fluid level. With appropriate electrodes they can sense through sealed surfaces made of glass, plastic, stone, ceramic, and wood, up to thicknesses of several inches. This capability coupled with an ability to continuously calibrate leads to new product concepts. They are designed specifically for control panels in home appliances, PC peripherals, machinery, security systems, lighting controls, or anywhere a mechanical switch or button may be found. Versions also available for fluid sensing.

Description	Supply Voltage (V) Minimum	Maximum	Supply Current (Typical)	Operating Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	50	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Quantum Part No.
QT110 QProx 8-Pin Sensor IC	2.5	5.5	9.5-26µA	0 ~ 70	8-Dip	427-1091-ND	4.19	2.44	2.27	—	—	—	QT110-DG
QT110 QProx 8-Pin Sensor IC	2.5	5.5	9.5-26µA	-40 ~ 85	8-SOIC	427-1092-1-ND	4.53	2.63	2.45	427-1092-2-ND	3,300	2004.00/M	QT110-ISG
QT113 QProx 8-Pin Sensor IC	2.5	5.5	600µA	-40 ~ 85	8-SOIC	427-1096-1-ND	4.53	2.63	2.45	—	—	—	QT113-ISG
QT115 QProx 8-Pin Sensor IC	2.5	5.25	20µA	-40 ~ 85	8-SOIC	427-1122-1-ND	5.31	3.08	2.87	427-1122-2-ND	3,300	2352.00/M	QT115-ISG
QT117 QProx 8-Pin Sensor IC	2.5	5.5	600µA	-40 ~ 85	8-SOIC	427-1097-1-ND	8.36	4.85	4.52	—	—	—	QT117L-ISG
QT140 QProx 4-Key Sensor IC	3.0	5.0	5.0mA	-40 ~ 105	28-SSOP	427-1111-1-ND	8.24	7.48	6.62	427-1111-2-ND	2,100	5679.10/M	QT140-ASG
QT160 QProx 6-Key Sensor IC	3.0	5.5	5.0mA	0 ~ 70	28-Dip	427-1100-ND	7.55	6.81	6.12	—	—	—	QT160-DG
QT160 QProx 6-Key Sensor IC	3.0	5.5	5.0mA	-40 ~ 85	28-SSOP	427-1101-1-ND	7.33	6.65	5.89	427-1101-2-ND	2,100	5054.00/M	QT160-ISG
QT161 QTouch 6-Key Sensor IC	3.0	5.5	2.5mA	-40 ~ 105	28-SSOP	427-1112-1-ND	10.53	9.50	8.54	—	—	—	QT161-ASG
QT220 QTouch 2-Key Sensor IC	3.9	5.5	1.5mA	-40 ~ 85	20-SSOP	427-1114-1-ND	3.09	2.80	2.48	427-1114-2-ND	2,000	2160.00/M	QT220-ISS-G
QT240 QTouch 4-Key Sensor IC	3.9	5.0	1.5mA	-40 ~ 85	20-SSOP	427-1102-1-ND	3.46	3.15	2.81	427-1102-2-ND	2,000	2400.00/M	QT240-ISS-G
QT320 QTouch 2-Key Sensor IC	1.8	5.0	600µA	-40 ~ 85	8-SOIC	427-1121-1-ND	3.93	2.30	2.14	427-1121-2-ND	2,000	1750.00/M	QT320-ISG
QT401 QSlide™ Touch Slider IC	2.5	5.5	110-180µA	-40 ~ 85	14-SOIC	427-1103-1-ND	5.92	5.39	4.81	427-1103-2-ND	2,600	2487.00/M	QT401-ISG
QT401 QSlide Touch Slider IC	2.5	5.5	110-180µA	-40 ~ 85	14-TSSOP	427-1104-1-ND	5.94	5.39	4.78	427-1104-2-ND	2,500	4096.00/M	QT401-ISSG
QT411 QSlide Touch Slider IC	2.5	5.5	110-180µA	-40 ~ 85	14-TSSOP	427-1116-1-ND	3.74	3.40	3.01	—	—	—	QT411-ISSG
QT510 QWheel™ Touch Slider IC	2.5	5.5	110-180µA	-40 ~ 85	14-SOIC	427-1105-1-ND	7.85	7.16	6.37	427-1105-2-ND	2,600	2979.00/M	QT510-ISG
QT510 QWheel Touch Slider IC	2.5	5.5	110-180µA	-40 ~ 85	14-TSSOP	427-1106-1-ND	7.89	7.16	6.34	427-1106-2-ND	2,500	5440.00/M	QT510-ISSG
QT511 QWheel Touch Slider IC	2.5	5.5	110-180µA	-40 ~ 85	14-TSSOP	427-1117-1-ND	6.20	5.62	4.98	427-1117-2-ND	2,500	4275.00/M	QT511-ISSG
QT1080 QTouch 8-Key Sensor IC	2.8	5.0	1.3-4.5mA	-40 ~ 85	32-QFN	427-1090-1-ND	3.63	3.29	2.92	427-1090-2-ND	2,500	2500.00/M	QT1080-ISG
QT1081 QTouch 8-Key Sensor IC	2.8	5.0	1.6mA	-40 ~ 85	32-QFN	427-1127-1-ND	3.65	2.18	2.06	427-1127-2-ND	2,500	1620.00/M	QT1081-ISG
QT1100 QTouch 10-Key Sensor IC	3.3	5.0	1.4-2.9mA	-40 ~ 85	48-SSOP	427-1093-1-ND	9.11	5.29	4.93	427-1093-2-ND	1,000	4030.00	QT1100A-ISG
QT1100 QTouch 10-Key Sensor IC	2.8	5.0	1.5-4.5mA	-40 ~ 85	32-QFN	427-1094-1-ND	6.52	3.78	3.53	427-1094-2-ND	2,500	2880.00/M	QT1101-ISG
QT1103 QTouch 10-Key Sensor IC	2.8	5.0	1.4mA	-40 ~ 85	32-QFN	427-1129-1-ND	2.70	2.45	2.17	427-1129-2-ND	2,500	1800.00/M	QT1103-ISG
QT1106 QTouch 7-Key Sensor IC	2.8	5.0	1.3mA	-40 ~ 85	32-QFN	427-1115-1-ND	6.06	3.54	3.30	427-1115-2-ND	2,500	2690.00/M	QT1106-ISG
QT60160 QMatrix™ 16-Key Touch IC	1.8	5.25	1.02mA	-40 ~ 85	32-MLF	427-1125-1-ND	4.79	2.91	2.74	427-1125-2-ND	3,000	2190.00/M	QT60160-ISG
QT60168 QProx 16-Key QMatrix IC	3.0	5.25	10mA	-40 ~ 105	32-TQFP	427-1107-ND	5.23	4.71	4.24	—	—	—	QT60168-ASG
QT60240 QMatrix 24-Key Touch IC	1.8	5.25	1.02mA	-40 ~ 85	32-MLF	427-1126-1-ND	5.17	3.11	3.01	427-1126-2-ND	3,000	2400.00/M	QT60240-ISG
QT60248 QProx 24-Key QMatrix IC	3.0	5.25	10mA	-40 ~ 105	32-TQFP	427-1108-ND	6.57	5.93	5.34	—	—	—	QT60248-ASG
QT60326 QProx 32-Key QMatrix IC	4.75	5.25	15mA	-40 ~ 105	44-TQFP	427-1109-ND	8.22	7.41	6.99	—	—	—	QT60326-ASG
QT60486 QProx 48-Key QMatrix IC	4.75	5.25	15mA	-40 ~ 105	44-TQFP	427-1110-ND	9.86	8.90	8.39	—	—	—	QT60486-ASG

Evaluation Boards

Description	Digi-Key Part No.	Price Each	Quantum Part No.
E3A Evaluation Board for QT300	427-1069-ND	89.00	E3A
E100S Evaluation Board for QT100	427-1128-ND	11.75	E100S
E102 Evaluation Kit for QT102-ISG QTouch™ 3-Key Sensor IC	427-1133-ND	23.50	E102 KIT
E240B Evaluation Board for QT240	427-1113-ND	30.00	E240B
E1081 Evaluation Board for QT1081-ISG 8-Key Sensor IC	427-1130-ND	63.50	E1081 KIT

Description	Digi-Key Part No.	Price Each	Quantum Part No.
E1103 Evaluation Board for QT1103-ISG	427-1134-ND	39.00	E1103 KIT
E1106 Evaluation Board for QT1106 IC	427-1124-ND	156.00	E1106 KIT
E6248 Evaluation Board for QT60248 24-Key QMatrix™ IC	427-1087-ND	185.00	E6248
E6486 Evaluation Board for QT60486 48-Key QMatrix IC	427-1088-ND	190.00	E6486
E6240 Evaluation Board for QT60160/QT60240 IC	427-1123-ND	95.00	E6240 KIT

Honeywell
Sensing and Control

NEW! Ultrasonic Sensors

The 943 Series industrial sensors add to our product range of sensors. They have improved scanning ranges, remote teach in of the switching or analog outputs, as well as new advanced features, such as window and hysteresis modes.

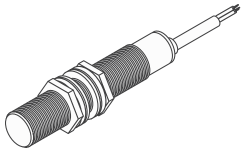

Description	Switching Frequency	Output	Digi-Key Part No.	Price Each 1	25	50	Honeywell Part No.
943 Series, Software Programmable, 200 ~ 2000mm scan distance, M18 Plastic Housing	1.2Hz	NPN, 2 NO/NC	480-3007-ND	224.06	185.58	178.70	943-F4Y-2D-002-180E
	250ms	0 ~ 10V	480-3008-ND	224.06	185.58	178.70	943-F4Y-2D-1C0-180E

MEMS Accelerometers

ST offers a portfolio of MEMS-based sensors able to sense acceleration in two or three axis.

The mechanical part of linear accelerometer sensor is based on a silicon inter-digitated structure done by fixed and movable fingers.

To sense the acceleration in each axis, these structures are packaged in orthogonally groups and the acceleration in each direction is sensed by measuring the change of capacitance between fixed and movable elements correlated to that axis.

The changing of capacitance per axis is then translated into an analog or digital output signal in the interface chip.

The whole process of design and production of sensors is managed by STMicroelectronics.

This guarantees to the customer high volume production, long term security, high precision and reliability since all the devices are tested by Standards and Proprietary Test Systems.

Output	Axis	Acceleration Range (g)	Package	Calibration (V)	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel‡ Qty.	Pricing	STMicroelectronics Part No.
Analog	2	±2	16-LGA	3.0	497-6343-ND	6.44	5.88	4.65	—	—	LIS244AL
Analog	2	±2/±6	16-LGA	3.3	497-6344-1-ND ***NEW!***	8.03	7.33	5.80	3,000	4397.40/M	LIS244ALHTR
Analog	3	±2	8-LGA	3.3	497-4917-ND	11.00	10.18	7.70	—	—	LIS3L02AL
Analog	3	±2	14-LGA	3.3	497-6340-ND	7.25	6.62	5.23	—	—	LIS302SG
Analog	3	±3.5	16-LGA	3.0	497-6341-ND	6.48	5.64	4.20	—	—	LIS344AL
Analog	3	±2/±6	16-LGA	3.3	497-6345-1-ND ***NEW!***	9.02	8.24	6.51	3,000	4939.20/M	LIS344ALHTR
Analog	2	±2/±6	24-SOIC	3.3	497-6044-1-ND	8.86	8.09	6.40	1,000	4909.00	LIS2L02AS4-TR
Analog	3	±2	14-LGA	3.3	497-5910-1-ND	6.44	5.88	4.65	5,000	3500.00/M	LIS302ALBTR
Digital	3	±2/±8	14-LGA	3.3	497-5911-1-ND	11.00	10.18	7.70	5,000	6710.00/M	LIS302DLTR
Digital	2	±2/±8	14-LGA	2.16 ~ 3.6	497-6071-1-ND	8.63	7.88	6.23	5,000	4688.00/M	LIS202DLTR
Digital	3	±2/±6	28-QFPN	2.5	497-6346-1-ND ***NEW!***	13.00	12.03	9.10	2,300	8060.00/M	LIS3LV02DQ-TR
Analog	3	±2/±6	44-QFN	2.4 ~ 3.6	497-6072-1-ND	11.00	10.18	7.70	2,300	6875.00/M	LIS3L02AQ3TR

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Tools and Evaluation Boards

The Micro Electro Mechanical System is a new technology that exploits the mechanical properties of silicon to integrate mechanical structures sensitive to vibration, displacement, acceleration and rotation. This new technology opened the door to a new generation of compact, cost effective and sensitive sensors. While conventional microelectronics development focuses on incremental improvements of a well-established technology, MEMS challenge the way designers work, compelling them to think three dimensionally and to acquire a unique blend of multi-disciplinary skills combining electrical, semiconductor and mechanical design.

Features: • Strategic Cost • Low Power Consumption • Low size and weight • High volumes • High reproducibility • High thermal stability by design • High integration with standard IC devices to build Multi Chip Modules (MCM) or smart sensors.

LIS302DL Evaluation Board

MEMS 3-Axis ±2g/±8g. Digital Output Low Power Linear Accelerometer Evaluation Board based on LIS302DL (EK302DL).

497-6229-ND (STEVAL-MKI006V1)........ **$54.60**

497-6342-ND (STEVAL-MKI013V1)........ **$45.50**

LIS3L02AL Evaluation Board

MEMS Analog Output Evaluation Board based on LIS3L02AL (EK3L02AL).

497-6230-ND (STEVAL-MKI002V1)........ **$31.20**

LIS3L06AL Evaluation Board

MEMS Analog Output Evaluation Board based on LIS3L06AL (EK3L06AL).

497-6233-ND (STEVAL-MKI012V1)........ **$32.50**

LIS3LV02DQ Evaluation Board

MEMS 3-Axis ±2g/±6g. Digital Output Low Voltage Linear Accelerometer Evaluation Board based on LIS3LV02DQ.

497-6249-ND (STEVAL-MKI004V1)........ **$54.60**

LIS3LV02DL Evaluation Board

MEMS 3-Axix ±2g/±6g. Digital Output Low Voltage Linear Accelerometer.
Evaluation Board based on LIS3LV02DL (EK3LV02DL).

497-6226-ND (STEVAL-MKI005V1)........ **$54.60**

LIS3LV02DL Adapter Board

LIS3LV02DL Adapter Board designed to be plugged into a standard DIL 20 socket.

497-6227-ND (STEVAL-MKI009V1)........ **$24.70**

Accelerometers for LIS302ALB Adapter Board

MEMS Analog Output Low Power 3-Axis Linear Accelerometer based on LIS302ALB (EK302ALB).

497-6245-ND (STEVAL-MKI007V1)........ **$32.50**

ANALOG DEVICES *i*MEMS® Accelerometers and Gyroscopes

Digi-Reel®

As a MEMS pioneer, Analog Devices has held a leadership position as a large volume supplier of integrated MEMS accelerometers and gyroscopes. The ADXL products are the foundation for Analog Devices accelerometer family. Available in low-g or high-g sensing ranges *i*MEMS (Integrated Micro Electro Mechanical System) accelerometers are used to measure position, motion, tilt, shock, and vibration in a broad array of applications. Analog Devices offer a broad accelerometer portfolio, including high performance, low power consumption and small size.

Description	G Range	Axes	Sensitivity	Bandwidth	Voltage	Supply Current	Package	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel§ Qty.	Pricing
Single Axis Accelerometers — RoHS Compliant													
Low Power, High Precision	±1.5g	X	1000mV/g	10Hz	3 ~ 6	0.7mA	8-CLCC	ADXL103CE-ND	15.83	14.25	12.64	—	—
Low Power, ADXL78	±35g		55mV/g	400Hz	5	1.3mA	8-CLCC	AD22279-A-R2CT-ND	11.66	10.50	9.31	250	2231.25
Low Power, ADXL78	±50g		38mV/g	400Hz	5	1.3mA	8-CLCC	AD22280-R2CT-ND	11.66	10.50	9.31	250	2231.25
Low Power, ADXL78	±70g		27mV/g	400Hz	5	1.3mA	8-CLCC	AD22281-R2CT-ND	11.66	10.50	9.31	250	2231.25
Low Power, ADXL193	±120g		18mV/g	400Hz	5	1.5mA	8-CLCC	AD22282-A-R2CT-ND	12.83	11.55	10.25	250	2454.38
Low Power, ADXL193	±250g		8mV/g	400Hz	5	1.5mA	8-CLCC	AD22283-B-R2CT-ND	12.83	11.55	10.25	250	2454.38
Dual Axis Accelerometers — RoHS Compliant													
Low Power, Digital Output	±2g	X, Y	12.5%/g	6kHz	2.7 ~ 5	0.5mA	8-LCC	ADXL202AE-ND*	17.46	16.30	15.14	—	—
Low Power, Digital Output	±2g		12.5%/g	6kHz	2.7 ~ 5	0.5mA	8-LCC	ADXL202JE-ND*	15.30	14.28	13.26	—	—
Low Power, High Precision	±1.5g		1000mV/g	10Hz	3 ~ 6	0.7mA	8-CLCC	ADXL203CE-ND	22.50	21.00	19.50	—	—
Low Power, Single IC Chip	±1.7g		620mV/g	2.5kHZ	3 ~ 6	0.5mA	8-LCC	ADXL204CE-ND	22.50	21.00	19.50	—	—
Low-Cost, Analog Output	±2g		174mV/g	6kHz	2.4 ~ 5	0.4mA	8-CLCC	ADXL311JE-ND	8.50	7.65	6.79	—	—
Low Power, Digital Out	±1.2g	X, Y	30%/g	60Hz	3 ~ 6	0.7mA	8-LCC	ADXL213AE-ND	17.46	16.30	15.14	—	—
Low Power, Small, Thin	±5g		174mV/g	2.5kHz	2.4 ~ 5.25	0.45mA	16-Lead LFCSP	ADXL320JCP-ND	8.33	7.50	6.65	—	—
Low Power	±18g		57mV/g	50Hz	2.4 ~ 6	.49mA	16-LFCSP	ADXL321JCP-ND	8.33	7.50	6.65	—	—
Low Power	±2g		420mV/g	60Hz	2.4 ~ 6	.45mA	16-LFCSP	ADXL322JCP-ND	8.33	7.50	6.65	—	—
Low Power, Small	±3g		300mV/g	1600Hz	1.8 ~ 5.25	320µA	16-LFCSP	ADXL323KCPZ-RLCT-ND	9.50	7.60	6.42	4,000	5890.00/M
Low Power, ADXL278	±35g	X, Y	55mV/g	400Hz	5	2.2mA	8-CLCC	AD22284-A-R2CT-ND	15.75	14.70	13.65	250	3346.88
Low Power, ADXL278	±50g		38mV/g	400Hz	5	2.2mA	8-CLCC	AD22285-R2CT-ND	15.75	14.70	13.65	250	3346.88
Low Power, ADXL278	±70g		27/mV/g	400Hz	5	2.2mA	8-CLCC	AD22286-R2CT-ND	15.75	14.70	13.65	250	3346.88
Triple Axis Accelerometers — Low Power — RoHS Compliant													
Low Power, Small	±3g	X, Y, Z	300mV/g	1.6(X,Y) 0.55(Z)	2.0 ~ 3.6	0.2mA	16-LFCSP	ADXL330KCPZ-RLCT-ND	11.58	10.43	9.25	4,000	8444.25/M

Description	Range (°/s)	Axes	Sensitivity	Band-width	Voltage	Supply Current	Package	Digi-Key Part No.	Price Each 1	25	100
Gyroscopes											
Single Chip Yaw Rate Gyro	±150	Z	12.5 ± 10%	40Hz	4.75 ~ 5.25	6.0mA	32-BGA	ADXRS150ABG-ND	49.50	46.20	42.90
	±300		5.0 ± 8%					ADXRS300ABG-ND	49.50	46.20	42.90
	±75		15.0 ± 15%					ADXRS401ABG-ND	42.00	39.20	36.40

* Not recommended for new design § For Tape and Reel part number, change CT-ND to TR-ND.

*i*MEMS® Evaluation Boards

ADXRS150EB-ND	Evaluation Board for the ADXRS150, ±150°/s Single Chip Rate Gyro	**$53.75**
ADXL203EB-ND	Evaluation Board for ADXL203	**$32.20**
ADXL204EB-ND	Evaluation Board for the ADXL204CE, Dual Axis Accelerometer	**$32.20**
ADXL213EB-ND	Evaluation Board for ADXL213	**$32.20**
ADXRS300EB-ND	Evaluation Board for the ADXRS300, ±300°/s Single Chip Rate Gyro	**$53.75**
ADXL321EB-ND	Evaluation Board for ADXL321	**$32.20**
EVAL-ADXL330Z-ND◆	Evaluation Board for ADXL330	**$68.59**
ADXRS401EB-ND	Evaluation Board for ADXRS401ABG	**$53.75**

◆ ***RoHS Compliant***

ANALOG DEVICES *i*Sensor™ Intelligent Sensors

*i*Sensor ADIS Accelerometers/Gyros enhance ADXL/ADXRS iMEMS accelerometers with additional performance and functionality, such as embedded signal processing and control. These inertial sensors address special requirements such as calibration/tuning, application specific interfaces, digital I/O, wireless links, embedded intelligence and programmability, power management, and analog signal conditioning.

Description	Sensor Core	Output Type	Sensitivity	Temper-ature Sensor	Voltage Supply (V)	Supply Current (mA)	Temperature Range (°C)	Package (mm/type)	Digi-Key Part No.	Price Each 1	25	100
ADIS Accelerometers — RoHS Compliant												
±1.7g Accelerometer	Accelerometer	SPI	820 LSB/g	Yes	3 ~ 5.25	1.5 (typical)	-40 ~ 125	12 LGA	ADIS16003CCCZ-ND	32.63	30.45	28.28
±5g Accelerometer	Accelerometer	SPI	256 LSB/g	Yes	3 ~ 5.25	1.5 (typical)	-40 ~ 125	12 LGA	ADIS16006CCCZ-ND	32.63	30.45	28.28
Programmable, ±5g Accelerometer	Accelerometer/Ind.	SPI	2 LSB/mg (10LSB/°)	Yes	3 ~ 3.6	11 (.5 in Standby)	-40 ~ 125	16 LGA	ADIS16201CCCZ-ND	43.43	40.53	37.64
Programmable, Single Axis Inclinometer	360° Inclinometer	SPI	0.025°/LSB	Yes	3 ~ 3.6	11 (.5 in Standby)	-40 ~ 125	16 LGA	ADIS16203CCCZ-ND	43.43	40.53	37.64
Programmable, High-g Sensor/Recorder	Accel./Impact Sensor	SPI	±70g; ±37g	Yes	3 ~ 3.6	12 (.5 in Standby)	-40 ~ 105	16 LGA	ADIS16204BCCZ-ND	37.43	34.93	32.44
Digital Dual Axis Accel./Inclinometer	Accel./Inclinometer	SPI	0.025°/LSB	Yes	3 ~3.6	14	-40 ~ 125	16 LGA	ADIS16209CCCZ-ND ***NEW!***	62.84	58.65	54.46

Range (°/s)	Sensitivity	Output	Bandwidth (Maximum)	Noise Density (°/s / √Hz rms)	Temperature Sensor	Voltage Reference (V)	Supply Voltage (V)	Supply Current (mA)	Temperature Range (°C)	Digi-Key Part No.	Price Each 1	25	100
ADIS Gyroscope													
±80	0.0122 °/s /LSB	SPI	1000Hz	0.04	Yes	Yes	4.75 ~ 5.25	6.5	-40 ~ 105	ADIS16060BCCZ-ND◆ ***NEW!***	61.35	57.26	53.17
±80	0.098 °/s /LSB	SPI	40Hz	0.05	Yes	Yes	4.75 ~ 5.25	7	-40 ~ 85	ADIS16080ACCZ-ND◆	61.35	57.26	53.17
±300	0.244 °/s /LSB	SPI	40Hz	0.10	Yes	Yes	4.75 ~ 5.25	7	-40 ~ 85	ADIS16100ACC-ND	61.35	57.26	53.17
±300	0.2 °/s /mV	Analog	320Hz	0.015	Yes	Yes	4.75 ~ 5.25	100	-40 ~ 85	ADIS16120AML-ND	999.75	933.10	866.45
±250	0.000042 °/s /LSB	SPI	320Hz	0.0125	Yes	Yes	4.75 ~ 5.25	73	-40 ~ 85	ADIS16130AMLZ-ND◆ ***NEW!***	848.82	792.24	735.65
±80 ~ ±320	0.018 °/s /LSB	SPI	50Hz	0.056	Yes	Yes	4.75 ~ 5.25	18	-40 ~ 85	ADIS16250ACCZ-ND◆	73.88	68.95	64.03
±20 ~ ±80	0.004 °/s /LSB	SPI	50Hz	0.05	Yes	Yes	4.75 ~ 5.25	18	-40 ~ 85	ADIS16251ACCZ-ND◆	73.88	68.95	64.03
±80 ~ ±320	0.018 °/s /LSB	SPI	50Hz	0.05	Yes	Yes	4.75 ~ 5.25	18	-40 ~ 85	ADIS16255ACCZ-ND◆	98.07	91.54	85.00
±75 ~ ±300	0.018 °/s /LSB	SPI	350Hz	0.05	Yes	Yes	4.75 ~ 5.25	35	-40 ~ 85	ADIS16350AMLZ-ND◆	510.00	476.00	442.00
±75 ~ ±300	0.018 °/s/LSB	SPI	350Hz	0.05	Yes	Yes	4.75 ~ 5.25	33	-40 ~ 85	ADIS16354AMLZ-ND◆ ***NEW!***	597.00	557.20	517.40
±75 ~ ±300	0.018 °/s/LSB	SPI	350Hz	0.05	Yes	Yes	4.75 ~ 5.25	33	-40 ~ 85	ADIS16355AMLZ-ND◆ ***NEW!***	585.00	—	—

◆ ***RoHS Compliant***

*i*Sensor™ Evaluation Boards

ADIS16003/PCBZ-ND◆	Evaluation Board for the ADIS16003, ±1.7g. Dual Axis Accelerometer	**$56.25**
ADIS16006/PCBZ-ND◆	Evaluation Board for ADIS16006/PCB	**$56.25**
ADIS16060/PCBZ-ND◆	***NEW!*** Evaluation Board for ADIS16060	**$84.38**
ADIS16080/PCBZ-ND◆	Evaluation Board for ADIS16080	**$84.38**
ADIS16100/PCB-ND	Evaluation Board for the ADIS16100, ±300°/Sec. Yaw Rate Gyro	**$84.38**
ADIS16120/PCB-ND	Evaluation Board for the ADIS16120	**$1350.00**
ADIS16201/PCBZ-ND◆	Evaluation Board for the ADIS16201, Programmable, Dual-Axis Inclinometer/Accelerometer	**$84.38**
ADIS16203/PCBZ-ND◆	Evaluation Board for the ADIS16203	**$84.38**
ADIS16204/PCBZ-ND◆	Evaluation Board for ADIS16204/PCB	**$84.38**
ADIS16209/PCBZ-ND◆	***NEW!*** Evaluation Board for ADIS16209	**$84.38**
ADIS16250/PCBZ-ND◆	Evaluation Board for the ADIS16250	**$84.38**
ADIS16251/PCBZ-ND◆	Evaluation Board for ADIS16251	**$84.38**
ADIS16255/PCBZ-ND◆	Evaluation Board for the ADIS16255	**$84.38**
ADIS16350/EVALZ-ND◆	Tri Axis Inertial Sensor Evaluation Kit	**$646.88**
ADIS16350/PCBZ-ND◆	Evaluation Board for Tri Gyro Accelerometer	**$534.38**
ADIS16354/EVALZ-ND◆	***NEW!*** Tri Axis Inertial Sensor Evaluation Kit	**$786.38**
ADIS16354/PCBZ-ND◆	***NEW!*** Evaluation Board for ADIS16354	**$673.88**
ADIS16355/PCBZ-ND◆	***NEW!*** Evaluation Board for ADIS16355	**$673.88**
ADISEVALZ-ND◆	*i*Sensor PC Evaluation System	**$196.88**
ADISEVAL/USBZ-ND◆	*i*Sensor PC Evaluation System	**$196.88**

◆ ***RoHS Compliant***

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

ACH-01 Accelerometers

The ACH-01 Accelerometer is a robust, general purpose, linear single axis accelerometer featuring buffered electronic output.

Specifications:

• **Sensitivity:** 10mV/g • **Lower Frequency Limit (-3dB):** 2Hz • **Upper Frequency Limit (+3dB):** 20kHz • **Dynamic Range:** ±150g • **Linearity:** 0.1% • **Resonant Frequency:** 35kHz • **Operating Temperature:** -40°C ~ 85°C • **Maximum Shock Level:** 1000g

ACH-01-03 with Shielded Cable

Dimensions in mm

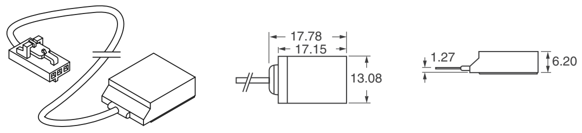

Description	Digi-Key Part No.	Price Each 1	10	100	Measurement Part No.
ACH-01-03 Sensor Accelerometer with 40" Single Coax Cable and Female Connector	MSP1001-ND	24.38	19.50	13.65	1-1001220-0
ACH-01-04 Sensor Accelerometer with Wires	MSP1002-ND	24.38	19.50	13.65	1-1001497-0

Model 4000 Accelerometers

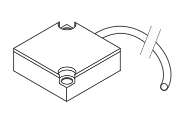

The Model 4000 is an economical signal conditioned accelerometer with integral temperature compensation. The accelerometer incorporates a 2nd generation piezoresistive MEMS sensor providing outstanding performance. It is packaged in a lightweight thermoplastic housing ideal for transportation and instrumentation testing. The signal conditioned output incorporates a 2.5V reference that offers the user a differential or single-ended output.

"G" Range	Digi-Key Part No.	Price Each	Measurement Part No.
10	223-1079-ND	276.38	4000-010-060

Amplifier Box

For use with ACH-01-03 and ACH-01-04

Characteristics: • **Gain:** 10X • **Power Supply:** 9V Battery • **Supply Current:** 4.0mA • **Input Interface:** FET for ACH-01 • **Output Impedance:** 100Ω • **Output Connector:** BNC

Description	Digi-Key Part No.	Price Each 1	10	100	Measurement Part No.
IB-ACH-01 — Amplifier Box	MSP1003-ND	92.50	77.50	67.50	0-1003058-0

LDT Vibration Sensors

Typically, a 0.005" (125μm) polyester layer is laminated to a 28μm piezo film element. When used in a "bending" mode, laminated film elements develop much higher voltage output when flexed than non-laminated elements. The piezo film is off the neutral axis in the laminate, and is strained more when flexed.

LDT0-028K High Sensitivity

Dimensions in mm

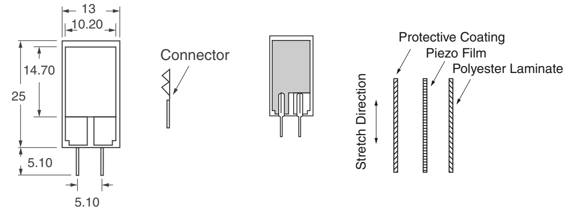

LDTM

Also available with a mass (M) which provides higher output (mv/g) for higher sensitivity applications.

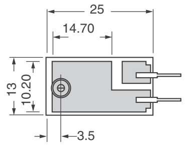

MiniSense

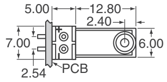

Description	Cap (nF)	Digi-Key Part No.	Price Each 1	10	100	Measurement Part No.
LDT0-028K, with Solder Tabs	.500	MSP1006-ND	1.20	.90	.50	1002794-0
LDTM-028K, with Mass and Solder Tabs	.420	MSP1007-ND	2.00	1.50	.83	0-1005447-1
MiniSense 100 (Horizontal)	—	MSP6914-ND	3.00	2.25	1.25	1005939-1
MiniSense 100 (Vertical)	—	MSP6915-ND	3.00	2.25	1.25	1005940-1

Basic Design Kit

This kit demonstrates the use of MSI piezo film sensors as microphones, speakers, switches and acoustic pickups. All components and film samples in the kit can be used for experimentation.

Kit Includes: • Seven sensor elements • One piezo cable • One PCB for ACH-04-08 • Application/instruction specifications • Technical manual

Description	Digi-Key Part No.	Price Each	Measurement Part No.
Basic Design Kit	MSP1010-ND	113.75	0-1004308-0

Pressure Sensors

The SCP1000 performs almost complete data processing on-chip. The communication between the SCP1000 and its host micro-controller (μC) is based on a serial interface, an interrupt line and specialized pins used to trigger special functions. Two different serial interfaces are available: SPI and TWI (TWI is very similar to I^2C bus). The appropriate communication interface is pre-programmed in the factory.

The SCP1000 pressure demonstrator is designed to give a quick access and understanding on the performance and capabilities of the SCP1000 pressure component. The demo kit supports SCP1000-D01 and SCP1000-D11 sensors.

SCP1000 Demo Kit Includes: SCP1000-D01 sensor soldered on chip carrier PCB, USB interface card inside the demo box, USB cable, CD-ROM with documentation, drivers and GUI software running on PC

Dimensions in mm

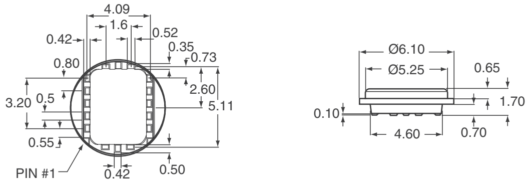

Description	Supply Voltage	Average Supply Current (μA)	Measuring Range (kPa)	Temperature Range	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	VTI Part No.
Absolute Pressure Sensor	2.4 ~ 3.3V	25	30 ~ 120	-20°C ~ 70°C	SPI Interface	551-1046-1-ND	20.30	18.89	17.47	551-1046-2-ND	500	6091.00	SCP1000-D01
Absolute Pressure Sensor	2.4 ~ 3.3V	25	30 ~ 120	-20°C ~ 70°C	I^2C Interface	551-1043-1-ND	20.30	18.89	17.47	551-1043-2-ND	500	6091.00	SCP1000-D11
SCP1000-D01 on PCB	2.4 ~ 3.3V	25	30 ~ 120	-20°C ~ 70°C	SPI Interface	551-1042-ND†	47.40	46.56	45.71	—	—	—	SCP1000 PCB1
SCP1000-D11 on PCB	2.4 ~ 3.3V	25	30 ~ 120	-20°C ~ 70°C	I^2C Interface	551-1044-ND†	47.40	46.56	45.71	—	—	—	SCP1000 PCB3
Sealing Gasket for SCP1000 Series Sensors						551-1049-ND	.40	.23	.19	—	—	—	SCP1000 GA/1K
Demo Kit for SCP1000						551-1045-ND	337.50	—	—	—	—	—	SCP1000 Demo

† Bulk

N

VTI TECHNOLOGIES

Accelerometers and Inclinometers

VTI Technologies is a forerunner in motion and pressure sensors and the world's leading designer and producer of acceleration sensors. VTI develops and produces silicon based capacitive sensors with unique 3D-MEMS (MicroElectroMechanical System) technology, with application areas in acceleration, inclination, shock, vibration and pressure measurement. **SCA3000 Demo Kit Includes:** Two inclinometers; SCA3000 sensor soldered on chip carrier PWB; USB interface card; USB cable and GUI software running on PC and powered from USB port. SCA3000 Demo runs on Windows XP and 2000 and requires USB connection for data transfer.

Dimensions in mm

Fig. 1

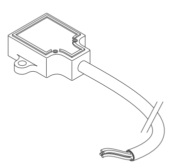

Fig. 2

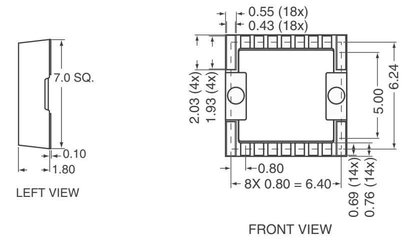

Fig. 3

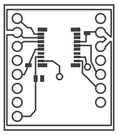

Fig.	Description	Supply Voltage (V)	Current Consump-tion	Measure-ing Range	Sensitivity	Frequency Response (Hz)	Temperature Range (°C)	Package	Digi-Key Part No.	Price Each 1	10	25	Tape and Reel† Qty.	Pricing	VTI Part No.
	Inclinometers — RoHS Compliant														
—	Single Output, 1g	4.75 ~ 5.25	2.5mA	±90°	2V/g	8 ~ 28	-55 ~ 125	8-DIL SMD	551-1005-1-ND	50.76	48.23	45.82	100	3942.00	SCA61T-FA1H1G
	Single Output, 0.5g	4.75 ~ 5.25	2.5mA	±30°	4V/g	8 ~ 28	-55 ~ 125	8-DIL SMD	551-1004-1-ND	50.76	48.23	45.82	100	3942.00	SCA61T-FAHH1G
	Dual Output, 0.5g	4.75 ~ 5.25	4mA	±30°	4V/g	8 ~ 28	-55 ~ 125	12-DIL SMD	551-1002-1-ND	65.88	62.59	59.46	100	5184.00	SCA100T-D01
	Dual Output, 1g	4.75 ~ 5.25	4mA	±90°	2V/g	8 ~ 28	-55 ~ 125	12-DIL SMD	551-1003-1-ND	65.88	62.59	59.46	100	5184.00	SCA100T-D02
	Single Output, 0.26g	4.75 ~ 5.25	4mA	±15°	16V/g	8 ~ 28	-55 ~ 125	12-DIL SMD	551-1000-1-ND	65.88	62.59	59.46	100	5184.00	SCA103T-D04
	Single Output, 0.5g	4.75 ~ 5.25	4mA	±30°	8V/g	8 ~ 28	-55 ~ 125	12-DIL SMD	551-1001-1-ND	65.88	62.59	59.46	100	5184.00	SCA103T-D05
	Accelerometers — RoHS Compliant														
—	Dual Output	4.75 ~ 5.25	5mA	±1.7g	1.2V/g	50±30	-55 ~ 125	12-DIL SMD	551-1007-1-ND	47.52	45.15	42.89	100	3564.00	SCA1000-D01
	Dual Output	4.75 ~ 5.25	5mA	±1.7g	1.2V/g	50±30	-55 ~ 125	12-DIL SMD	551-1008-1-ND	57.24	54.38	51.66	100	4428.00	SCA1020-D02
	Dual Output	4.75 ~ 5.25	4.5mA	±4g	.55V/g	115±55	-55 ~ 125	12-DIL SMD	551-1025-1-ND	76.95	73.11	69.45	100	6561.00	SCA1000-N1000070
	Single Output	4.75 ~ 5.25	2mA	±0.5g	4V/g	18±10	-55 ~ 125	8-DIL SMD	551-1009-1-ND	45.36	43.10	40.94	600	14904.00	SCA610-CAHH1G
	Single Output	4.75 ~ 5.25	2mA	±1g	2V/g	18±10	-55 ~ 125	8-DIL SMD	551-1010-1-ND	45.36	43.10	40.94	600	14904.00	SCA610-CA1H1G
	Single Output	4.75 ~ 5.25	2mA	±1.5g	1.33V/g	400±150	-55 ~ 125	8-DIL SMD	551-1026-1-ND	37.80	34.02	32.33	—	—	SCA610-C13H1A
	Single Output	4.75 ~ 5.25	2mA	±1g	2V/g	50±30	-55 ~ 125	8-DIL SMD	551-1027-1-ND	37.80	34.02	32.33	—	—	SCA610-C21H1A
	Single Output	4.75 ~ 5.25	2mA	±1.5g	1.333V/g	50±30	-55 ~ 125	8-DIL SMD	551-1011-1-ND	37.80	34.02	32.32	600	11664.00	SCA610-C23H1A
	Single Output	4.75 ~ 5.25	2mA	±3g	.75V/g	115±55	-55 ~ 125	8-DIL SMD	551-1028-1-ND	37.80	34.02	32.33	—	—	SCA610-CC5H1A
	Single Output	4.75 ~ 5.25	2mA	±1.7g	1.2V/g	50±30	-55 ~ 125	8-DIL SMD	551-1012-1-ND	37.80	34.02	32.32	100	2700.00	SCA610-C28H1A
	Single Output	4.75 ~ 5.25	2mA	±1.7g	1.2V/g	50±30	-55 ~ 125	8-DIL SMD	551-1013-1-ND	43.20	41.04	38.99	600	14580.00	SCA620-CF8H1A
	Stand Alone Inclinometers and Accelerometers														
1	Dual Axis	7 ~ 35	5mA	±90°	2V/g, 70mV/°≥4V/g	18	-40 ~ 85	Module	551-1017-ND◆	132.30	108.00	91.80	—	—	SCA121T-D03
	Dual Axis	4.75 ~ 5.25	5mA	±90°	2V/g, 70mV/°≥4V/g	18	-40 ~ 85	Module	551-1029-ND◆	139.05	113.40	95.85	—	—	SCA121T-D05
	Dual Axis	7 ~ 35	5mA	±30°	2V/g, 70mV/°≥4V/g	18	-40 ~ 85	Module	551-1018-ND	132.30	108.00	91.80	—	—	SCA121T-D07
	Dual Axis	7 ~ 35	20mA	±30°	0.035°/LSB	10 ~ 28	—	Module	551-1015-ND	216.00	183.60	162.01	—	—	SCA125T-D08-A
2	Triple Axis Digital	2.35 ~ 3.6	480µA	±2g	1333/g	45	-40 ~ 85	SPI Interface	551-1033-1-ND◆	27.00	25.11	23.22	1,000	16200.00	SCA3000-D01
	Triple Axis Digital	2.35 ~ 3.6	650µA	±2g	1333/g	45	-40 ~ 85	I^2C Interface	551-1035-1-ND◆	27.00	25.11	23.22	1,000	16200.00	SCA3000-D02
	Triple Axis Digital	2.35 ~ 3.6	120µA	±3g	1000/g	35	-40 ~ 85	SPI Interface	551-1037-1-ND◆	27.00	25.11	23.22	1,000	16200.00	SCA3000-E01
	Triple Axis Digital	2.35 ~ 3.6	200µA	±3g	1000/g	40	-40 ~ 85	I^2C Interface	551-1039-1-ND◆	27.00	25.11	23.22	1,000	16200.00	SCA3000-E02
	Triple Axis Digital	2.35 ~ 3.6	120µA	±6g	500/g	38	-40 ~ 85	SPI Interface	551-1047-1-ND◆	27.00	25.11	23.22	1,000	16200.00	SCA3000-E04
	Triple Axis Digital	2.35 ~ 3.6	120µA	±18g	160/g	Selectable	-40 ~ 85	SPI Interface	551-1048-1-ND◆	23.33	21.70	20.07	100	1633.00	SCA3000-E05
	Triple Axis Digital	2.35 ~ 3.6	120µA	±18g	160/g	Selectable	-40 ~ 85	SPI Interface	551-1050-ND◆	47.25	46.41	45.57	—	—	SCA3000-E05 PWB
—	Dual Axis Subassembly	7 ~ 35	4.5mA	±10°	200mV/°	3	-40 ~ 85	PC Board	551-1020-ND◆	94.50	78.30	67.50	—	—	SCL1700-D01
	Dual Axis Subassembly	4.75 ~ 5.25	4.5mA	±15°	150mV/°	3	-40 ~ 85	PC Board	551-1032-ND◆	94.50	78.30	67.50	—	—	SCL1700-D31
—	4 Channel Sensor - Demo Kit	—	—	±1g	2V/g On Board	Up ~ 300	—	Demo Kit	551-1006-ND	486.00	—	—	—	—	DEMO KIT
—	SCA3000 Demo w/D01 on PWB	—	—	±1.7g	1.2V/g	20	—	Demo Kit	551-1041-ND◆	337.50	—	—	—	—	SCA3000-D01DEMO
3	SCA3000-D01 on PWB	2.35 ~ 3.6	480µA	±2g	1333/g	45	-40 ~ 85	SPI Interface	551-1034-ND◆	47.25	46.41	45.57	—	—	SCA3000-D01 PWB
	SCA3000-D02 on PWB	2.35 ~ 3.6	650µA	±2g	1333/g	45	-40 ~ 85	I^2C Interface	551-1036-ND◆	47.25	46.41	45.57	—	—	SCA3000-D02 PWB
	SCA3000-E01 on PWB	2.35 ~ 3.6	120µA	±3g	1000/g	35	-40 ~ 85	SPI Interface	551-1038-ND◆	47.25	46.41	45.57	—	—	SCA3000-E01 PWB
	SCA3000-E02 on PWB	2.35 ~ 3.6	200µA	±3g	1000/g	40	-40 ~ 85	I^2C Interface	551-1040-ND◆	47.25	46.41	45.57	—	—	SCA3000-E02 PWB
	SCA3000-E04 on PWB	2.35 ~ 3.6	120µA	±6g	500/g	38	-40 ~ 85	SPI Interface	551-1047-ND◆	47.25	46.41	45.57	—	—	SCA3000-E04 PWB

† For Tape and Reel part number, change 1-ND to 2-ND. ◆ *RoHS Compliant*

muRata
Innovator in Electronics

SMD NTC Thermistors

Digi-Reel® RoHS COMPLIANT

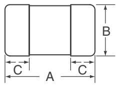

Size Code	Dimensions (mm)		
	A	B	C
0201	0.6	0.3	0.15
0402	1.0	0.5	0.25
0603	1.6	0.8	0.6
0805	2.0	1.25	0.7

Features: • Excellent solderability and high stability in environment • Long time aging stability • High accuracy in resistance and B-constant • Reflow soldering possible • Lead is not contained in the product • Operating Temperature Range -40°C ~ 125°C **• Free Thermistor design tool - "Output Voltage Simulator" is available at http://murata.com/designlib/index.html**

Resistance 25°C Ω	B-Constant 25-50°C (k) ±3%	Tolerance 25°C (%)	Max. Operating Current 25°C (mA)	Rated Electric Power 25°C (mW)	Typical Dissipation Constant 25°C (mW/°C)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							1	10	100		Qty.	Pricing	
0201 Series													
11	2750	±5	9.50	100	1	490-4637-1-ND	.25	2.15	16.86	490-4637-2-ND	15,000	87.00/M	NCP03YS110J05RL
22	2750	±5	6.70	100	1	490-4638-1-ND	.25	2.15	16.86	490-4638-2-ND	15,000	87.00/M	NCP03YS220J05RL
33	2750	±5	5.50	100	1	490-4639-1-ND	.25	2.15	16.86	490-4639-2-ND	15,000	87.00/M	NCP03YS330J05RL
47	2750	±5	4.60	100	1	490-4640-1-ND	.25	2.15	16.86	490-4640-2-ND	15,000	87.00/M	NCP03YS470J05RL
68	2750	±5	3.80	100	1	490-4641-1-ND	.25	2.15	16.86	490-4641-2-ND	15,000	87.00/M	NCP03YS680J05RL
100	2750	±5	3.10	100	1	490-4642-1-ND	.25	2.15	16.86	490-4642-2-ND	15,000	87.00/M	NCP03YS101J05RL
6.8k	3380	±5	0.38	100	1	490-4643-1-ND	.25	2.15	16.86	490-4643-2-ND	15,000	87.00/M	NCP03XH682J05RL
10k	3380	±5	0.31	100	1	490-4644-1-ND	.25	2.15	16.86	490-4644-2-ND	15,000	87.00/M	NCP03XH103J05RL
15k	3380	±5	0.25	100	1	490-4645-1-ND	.25	2.15	16.86	490-4645-2-ND	15,000	87.00/M	NCP03XH153J05RL
22k	3380	±5	0.21	100	1	490-4646-1-ND	.25	2.15	16.86	490-4646-2-ND	15,000	87.00/M	NCP03XH223J05RL
33k	4250	±5	0.17	100	1	490-4647-1-ND	.25	2.15	16.86	490-4647-2-ND	15,000	87.00/M	NCP03WF333J05RL
47k	4050	±5	0.14	100	1	490-4648-1-ND	.25	2.15	16.86	490-4648-2-ND	15,000	87.00/M	NCP03WB473J05RL
68k	4250	±5	0.12	100	1	490-4649-1-ND	.25	2.15	16.86	490-4649-2-ND	15,000	87.00/M	NCP03WF683J05RL
100k	4250	±5	0.10	100	1	490-4650-1-ND	.25	2.15	16.86	490-4650-2-ND	15,000	87.00/M	NCP03WF104J05RL
0402 Series													
22	3100	±5	6.70	100	1	490-2408-1-ND	.15	1.29	10.15	490-2408-2-ND	10,000	52.59/M	NCP15XC220J03RC
33	3100	±5	5.50	100	1	490-2409-1-ND	.15	1.29	10.15	490-2409-2-ND	10,000	52.59/M	NCP15XC330J03RC
47	3100	±5	4.60	100	1	490-2410-1-ND	.15	1.29	10.15	—	—	—	NCP15XC470J03RC
68	3100	±5	3.80	100	1	490-2411-1-ND	.15	1.29	10.15	—	—	—	NCP15XC680J03RC
100	3250	±5	3.10	100	1	490-2412-1-ND	.15	1.29	10.15	490-2412-2-ND	10,000	52.59/M	NCP15XF101J03RC
150	3250	±5	2.50	100	1	490-2413-1-ND	.15	1.29	10.15	490-2413-2-ND	10,000	52.59/M	NCP15XF151J03RC
220	3500	±5	2.10	100	1	490-2415-1-ND	.15	1.29	10.15	490-2415-2-ND	10,000	52.59/M	NCP15XM221J03RC
330	3500	±5	1.70	100	1	490-2416-1-ND	.15	1.29	10.15	—	—	—	NCP15XM331J03RC
470	3650	±5	1.40	100	1	490-2419-1-ND	.15	1.29	10.15	490-2419-2-ND	10,000	52.59/M	NCP15XQ471J03RC
1.0k	3650	±5	1.00	100	1	490-2418-1-ND	.15	1.29	10.15	490-2418-2-ND	10,000	52.59/M	NCP15XQ102J03RC
1.5k	3950	±5	0.81	100	1	490-2421-1-ND	.15	1.29	10.15	490-2421-2-ND	10,000	52.59/M	NCP15XW152J03RC
2.2k	3950	±5	0.67	100	1	490-2423-1-ND	.15	1.29	10.15	490-2423-2-ND	10,000	52.59/M	NCP15XW222J03RC
3.3k	3950	±5	0.55	100	1	490-2425-1-ND	.15	1.29	10.15	490-2425-2-ND	10,000	52.59/M	NCP15XW332J03RC
4.7k	3500	±5	0.46	100	1	490-2417-1-ND	.13	1.16	9.08	490-2417-2-ND	10,000	47.00/M	NCP15XM472J03RC
6.8k	3950	±5	0.38	100	1	490-2426-1-ND	.15	1.29	10.15	—	—	—	NCP15XW682J03RC
10k	3380	±1	—	100	1	490-4801-1-ND	.14	1.26	9.93	490-4801-2-ND	10,000	51.00/M	NCP15XH103F03RC
10k	3380	±5	0.31	100	1	490-2414-1-ND	.13	1.16	9.08	490-2414-2-ND	10,000	47.00/M	NCP15XH103J03RC
15k	3950	±5	0.25	100	1	490-2422-1-ND	.15	1.29	10.15	490-2422-2-ND	10,000	52.59/M	NCP15XW153J03RC
22k	3950	±5	0.21	100	1	490-2424-1-ND	.15	1.29	10.15	490-2424-2-ND	10,000	52.59/M	NCP15XW223J03RC
33k	4050	±5	0.17	100	1	490-2401-1-ND	.15	1.29	10.15	490-2401-2-ND	10,000	53.00/M	NCP15WB333J03RC
47k	4050	±1	—	100	1	490-4802-1-ND	.22	1.89	14.85	490-4802-2-ND	10,000	77.00/M	NCP15WB473F03RC
47k	4050	±5	0.14	100	1	490-2402-1-ND	.13	1.16	9.08	490-2402-2-ND	10,000	47.00/M	NCP15WB473J03RC
68k	4150	±5	0.12	100	1	490-2403-1-ND	.15	1.29	10.15	490-2403-2-ND	10,000	52.59/M	NCP15WD683J03RC
100k	4250	±1	—	100	1	490-4803-1-ND	.12	1.02	7.98	490-4803-2-ND	10,000	41.00/M	NCP15WF104F03RC
100k	4250	±5	0.10	100	1	490-2404-1-ND	.13	1.16	9.08	490-2404-2-ND	10,000	47.00/M	NCP15WF104J03RC
150k	4500	±5	0.08	100	1	490-2405-1-ND	.15	1.29	10.15	490-2405-2-ND	10,000	52.59/M	NCP15WM154J03RC
220k	4500	±5	0.06	100	1	490-2406-1-ND	.15	1.29	10.15	490-2406-2-ND	10,000	52.59/M	NCP15WM224J03RC
470k	4500	±5	0.04	100	1	490-2407-1-ND	.15	1.29	10.15	490-2407-2-ND	10,000	52.59/M	NCP15WM474J03RC
0603 Series													
100	3250	±5	3.10	100	1	490-2434-1-ND	.16	1.44	11.33	—	—	—	NCP18XF101J03RB
150	3250	±5	2.50	100	1	490-2435-1-ND	.16	1.44	11.33	490-2435-2-ND	4,000	61.80/M	NCP18XF151J03RB
220	3500	±5	2.10	100	1	490-2437-1-ND	.16	1.44	11.33	490-2437-2-ND	4,000	61.80/M	NCP18XM221J03RB
330	3500	±5	1.70	100	1	490-2438-1-ND	.16	1.44	11.33	490-2438-2-ND	4,000	61.80/M	NCP18XM331J03RB
470	3650	±5	1.40	100	1	490-2441-1-ND	.16	1.44	11.33	490-2441-2-ND	4,000	61.80/M	NCP18XQ471J03RB
1.0k	3650	±5	1.00	100	1	490-2440-1-ND	.16	1.44	11.33	490-2440-2-ND	4,000	61.80/M	NCP18XQ102J03RB
1.5k	3950	±5	0.81	100	1	490-2443-1-ND	.16	1.44	11.33	490-2443-2-ND	4,000	61.80/M	NCP18XW152J03RB
2.2k	3950	±5	0.67	100	1	490-2445-1-ND	.16	1.44	11.33	490-2445-2-ND	4,000	61.80/M	NCP18XW222J03RB
3.3k	3950	±5	0.55	100	1	490-2447-1-ND	.16	1.44	11.33	490-2447-2-ND	4,000	61.80/M	NCP18XW332J03RB
4.7k	3500	±5	0.46	100	1	490-2439-1-ND	.15	1.30	10.20	490-2439-2-ND	4,000	56.00/M	NCP18XM472J03RB
6.8k	3950	±5	0.38	100	1	490-2448-1-ND	.16	1.44	11.33	490-2448-2-ND	4,000	61.80/M	NCP18XW682J03RB
10k	3380	±1	—	100	1	490-4800-1-ND	.16	1.39	10.92	490-4800-2-ND	4,000	60.00/M	NCP18XH103F03RB
10k	3380	±5	0.31	100	1	490-2436-1-ND	.15	1.30	10.20	490-2436-2-ND	4,000	56.00/M	NCP18XH103J03RB
15k	3950	±5	0.25	100	1	490-2444-1-ND	.16	1.44	11.33	490-2444-2-ND	4,000	61.80/M	NCP18XW153J03RB
22k	3950	±5	0.21	100	1	490-2446-1-ND	.16	1.44	11.33	490-2446-2-ND	4,000	61.80/M	NCP18XW223J03RB
33k	4050	±5	0.17	100	1	490-2427-1-ND	.16	1.44	11.33	490-2427-2-ND	4,000	61.80/M	NCP18WB333J03RB
47k	4050	±5	0.14	100	1	490-2428-1-ND	.15	1.30	10.20	490-2428-2-ND	4,000	56.00/M	NCP18WB473J03RB
68k	4150	±5	0.12	100	1	490-2429-1-ND	.16	1.44	11.33	490-2429-2-ND	4,000	61.80/M	NCP18WD683J03RB
100k	4250	±5	0.10	100	1	490-2430-1-ND	.15	1.30	10.20	490-2430-2-ND	4,000	56.00/M	NCP18WF104J03RB
220k	4500	±5	0.06	100	1	490-2432-1-ND	.16	1.44	11.33	490-2432-2-ND	4,000	61.80/M	NCP18WM224J03RB
470k	4500	±5	0.04	100	1	490-2433-1-ND	.16	1.44	11.33	490-2433-2-ND	4,000	61.80/M	NCP18WM474J03RB
0805 Series													
220	3500	±5	3.00	200	2	490-2452-1-ND	.21	1.84	14.49	490-2452-2-ND	4,000	79.00/M	NCP21XM221J03RA
470	3650	±5	2.00	200	2	490-2455-1-ND	.21	1.84	14.49	490-2455-2-ND	4,000	79.00/M	NCP21XQ471J03RA
1.0k	3650	±5	1.40	200	2	490-2454-1-ND	.21	1.84	14.49	490-2454-2-ND	4,000	79.00/M	NCP21XQ102J03RA
2.2k	3950	±5	0.90	200	2	490-2458-1-ND	.21	1.84	14.49	490-2458-2-ND	4,000	79.00/M	NCP21XW222J03RA
4.7k	3500	±5	0.65	200	2	490-2453-1-ND	.21	1.84	14.49	490-2453-2-ND	4,000	79.00/M	NCP21XM472J03RA
10k	3900	±5	0.44	200	2	490-2456-1-ND	.21	1.84	14.49	490-2456-2-ND	4,000	79.00/M	NCP21XV103J03RA
15k	3950	±5	0.36	200	2	490-2457-1-ND	.21	1.84	14.49	490-2457-2-ND	4,000	79.00/M	NCP21XW153J03RA
22k	3950	±5	0.30	200	2	490-2459-1-ND	.21	1.84	14.49	490-2459-2-ND	4,000	79.00/M	NCP21XW223J03RA
33k	4050	±5	0.24	200	2	490-2449-1-ND	.21	1.84	14.49	490-2449-2-ND	4,000	79.00/M	NCP21WB333J03RA
47k	4050	±5	0.20	200	2	490-2450-1-ND	.21	1.84	14.49	490-2450-2-ND	4,000	79.00/M	NCP21WB473J03RA
100k	4250	±5	0.14	200	2	490-2451-1-ND	.21	1.84	14.49	490-2451-2-ND	4,000	79.00/M	NCP21WF104J03RA

TDK

Surface Mount NTC Thermistors

Digi-Reel® RoHS COMPLIANT

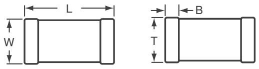

Size Code	Dimensions (mm)			
	L	W	T	B
0402	1.0 ±0.05	0.5 ±0.05	0.5 ±0.05	0.1 Min.
0603	1.6 ±0.1	0.8 ±0.1	0.8 ±0.1	0.2 Min.

NTC (Negative Temperature Coefficient) Thermistors are manufactured from sintered metal oxides. TDK thermistors have low thermal time constraints, which result in extremely high rates of resistance change to accurately track the temperature.

Features: • Layered internal electrode structure • Good stability of resistance value after soldering

Size Code	Nominal Resistance @ B25°/85° (Ω)	B Constant		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		TDK Part No.
		25°/85°C	25°/50°C		1	10	100		Qty.	Pricing	
0402	10K	3435K ±1%	3380K ±1%	445-2550-1-ND	.31	.28	.22	445-2550-2-ND	10,000	101.00/M	NTCG103JF103F
	100K	4500K ±1%	4498K ±1%	445-2552-1-ND	.31	.28	.22	—	—	—	NTCG104KF104F
0603	10K	3435K ±1%	3380K ±1%	445-2554-1-ND	.35	.31	.25	445-2554-2-ND	4,000	132.00/M	NTCG163JF103F
	10K	4100K ±3%	4067K ±3%	445-2555-1-ND	.29	.26	.21	445-2555-2-ND	4,000	110.00/M	NTCG164BH103H
	100K	4500K ±1%	4498K ±1%	445-2556-1-ND	.35	.31	.25	445-2556-2-ND	4,000	132.00/M	NTCG164KF104F

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CANTHERM NTC Thermistors

CWF Precision NTC Thermistor Probes

The CWF series NTC Thermistors are designed to facilitate installation in a wide variety of applications. PVC leads are applied to a precision, high-reliability NTC thermistor, insulated with heat conductive water resistant materials and potted into probe bodies.

Features: • Small size and fast response, temperature coefficient of resistance can reach- (2% ~ 5%/°C) • Long-term Stability and Reliability (yearly drift of ≤1%) • Excellent Tolerance and Interchangeability (the accuracy of R and B value can be ±1%) • Double layer packaging provides excellent insulation and high strength and impact resistance • Time Constant of ≤15S ~ 70S

MF11 NTC Thermistor

The MF11 series of NTC Thermistors is designed for temperature measurement and the temperature compensation of measurement instruments and electronic circuits.

Features: • Broad range of resistance • Standard tolerances: ±5% and ±10% • Measuring power ≤0.5mW • Dissipation Constant ≥6.0mW/°C • Time Constant of ≤30 seconds • Rated Power: 0.5W • Good level of Tolerance and Interchangeability

MF51E High Precision NTC Thermistors

The MF51E NTC Thermistors were specially designed for use in electronic thermometers which require better than average accuracy. The extremely small size allows the thermistor to respond very quickly to tiny changes in temperature.

Features: • Long-term Stability and Reliability • Excellent Tolerance and Interchangeability • Time Constant of ≤3.2 seconds • Rated Power: 3.5mW • Operating Temperature Range: -40°C ~ 100°C

MF52 NTC Thermistors

The MF52 Series of Pearl-Shaped NTC Thermistors is ethoxyline resin coated. The small size is made possible by new materials and manufacturing methods which provide the benefit of close tolerances and fast response.

Features: • Small Size and fast response • Long-term Stability and Reliability • Excellent Tolerance and Interchangeability • Time Constant of ≤7 seconds in still air • UL Listed E240991

MF72 Power NTC Thermistors

The MF72 series Power NTC Thermistors provide inrush current suppression for sensitive electronics. Connecting a MF72 in series with the power source will limit the current surges typically created at turn on. Once the circuit is energized the resistance of the MF72 will decrease rapidly to a very low value, power consumption can be ignored and there will be no effect on normal operating current.

Features: • Small Size and fast response • High Power handling capability • Fast response to surge current • High material constant (B value) • Low residual resistance • Long-term Stability and Reliability • UL 1434 Listed E241319

Dimensions in mm

CWF Series

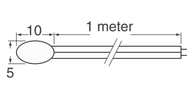

MF11 Series

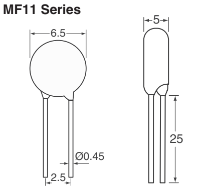

MF51E Series

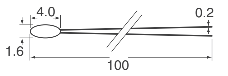

MF52 Series

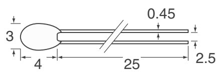

MF72 Series

Cantherm Part No.	Dimensions (mm) D	d	F1
MF72-xxxD5	6.5	0.6/0.45	5/2.5
MF72-xxxD7	8.5	0.6	5
MF72-xxxD9	10.5	0.8/0.6	7.5/5
MF72-xxxD11	12.5	0.8/0.6	7.5/5
MF72-xxxD13	14.5	0.8	7.5
MF72-xxxD15	16.5	0.8	10/7.5
MF72-xxxD20	21.5	1.0	10/7.5
MF72-xxxD25	26.5	1.0	10

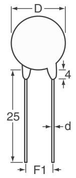

Resistance Ω	Tolerance ±	Digi-Key Part No.	Pricing 1	10	50	Cantherm Part No.
CWF Series						
10K	1%	317-1310-ND	4.22	36.93	122.91	CWF1B103F3380
100K		317-1311-ND	4.22	36.93	122.91	CWF1B104F3950
10K	2%	317-1312-ND	3.69	32.31	107.53	CWF1B103G3380
100K		317-1313-ND	3.69	32.31	107.53	CWF1B104G3950
10K	3%	317-1314-ND	3.17	27.72	92.27	CWF1B103H3380
100K		317-1315-ND	3.17	27.72	92.27	CWF1B104H3950
10K	5%	317-1316-ND	2.11	18.48	61.51	CWF1B103J3380
100K		317-1317-ND	2.11	18.48	61.51	CWF1B104J3950
MF11 Series						
20	5%	317-1267-ND	.53	4.62	15.38	MF11-0000205
40		317-1268-ND	.53	4.62	15.38	MF11-0000405
75		317-1269-ND	.53	4.62	15.38	MF11-0000755
100		317-1270-ND	.53	4.62	15.38	MF11-0001005
170		317-1271-ND	.53	4.62	15.38	MF11-0001705
250	5%	317-1272-ND	.53	4.62	15.38	MF11-0002505
300		317-1273-ND	.53	4.62	15.38	MF11-0003005
350		317-1274-ND	.53	4.62	15.38	MF11-0003505
600		317-1275-ND	.53	4.62	15.38	MF11-0006005
800		317-1276-ND	.53	4.62	15.38	MF11-0008005
1000	5%	317-1277-ND	.53	4.62	15.38	MF11-0010005
1400		317-1278-ND	.53	4.62	15.38	MF11-0014005
2000		317-1279-ND	.53	4.62	15.38	MF11-0020005
3300		317-1280-ND	.53	4.62	15.38	MF11-0033005
4600		317-1281-ND	.53	4.62	15.38	MF11-0046005
8000	5%	317-1282-ND	.53	4.62	15.38	MF11-0080005
10K		317-1283-ND	.53	4.62	15.38	MF11-0100005
15K		317-1284-ND	.53	4.62	15.38	MF11-0150005
33K		317-1285-ND	.53	4.62	15.38	MF11-0330005
20	10%	317-1286-ND	.26	2.31	7.69	MF11-0002010
40		317-1287-ND	.26	2.31	7.69	MF11-0004010
75		317-1288-ND	.26	2.31	7.69	MF11-0007510
100		317-1289-ND	.26	2.31	7.69	MF11-0010010
170		317-1290-ND	.26	2.31	7.69	MF11-0017010
250	10%	317-1291-ND	.26	2.31	7.69	MF11-0025010
300		317-1292-ND	.26	2.31	7.69	MF11-0030010
350		317-1293-ND	.26	2.31	7.69	MF11-0035010
600		317-1294-ND	.26	2.31	7.69	MF11-0060010
800		317-1295-ND	.26	2.31	7.69	MF11-0080010
1000	10%	317-1296-ND	.26	2.31	7.69	MF11-0100010
1400		317-1297-ND	.26	2.31	7.69	MF11-0140010
2000		317-1298-ND	.26	2.31	7.69	MF11-0200010
3300		317-1299-ND	.26	2.31	7.69	MF11-0330010
4600		317-1300-ND	.26	2.31	7.69	MF11-0460010
8000	10%	317-1301-ND	.26	2.31	7.69	MF11-0800010
10000		317-1302-ND	.26	2.31	7.69	MF11-1000010
15000		317-1303-ND	.26	2.31	7.69	MF11-1500010
33000		317-1304-ND	.26	2.31	7.69	MF11-3300010
MF51E Series						
10K	0.5%	317-1305-ND	1.65	14.42	48.00	MF51E103E3950
10K	1%	317-1306-ND	1.65	14.42	48.00	MF51E103F3950
10K		317-1309-ND	1.98	17.33	57.67	MF51E103F3950C
22.5K		317-1308-ND	1.98	17.33	57.67	MF51E2252F3950C
10K	2%	317-1307-ND	1.65	14.42	48.00	MF51E103G3950
MF52A Series						
10K	1%	317-1355-ND	1.32	11.52	38.33	MF52A103F3380
100K		317-1356-ND	1.32	11.52	38.33	MF52A104F4150
10K	2%	317-1357-ND	.79	6.93	23.07	MF52A103G3380
100K		317-1358-ND	.79	6.93	23.07	MF52A104G4150
2.7K	3%	317-1359-ND	.50	4.38	14.56	MF52A272H3470
4.7K		317-1360-ND	.50	4.38	14.56	MF52A472H3470
47K		317-1361-ND	.50	4.38	14.56	MF52A473H3950
100K		317-1362-ND	.50	4.38	14.56	MF52A104H4150
1K	5%	317-1251-ND	.32	2.69	9.23	MF52A102J3470
1.5K		317-1252-ND	.32	2.77	9.23	MF52A152J3470
2K		317-1253-ND	.32	2.77	9.23	MF52A202J3470
2.2K		317-1254-ND	.32	2.77	9.23	MF52A222J3470
3.3K		317-1255-ND	.32	2.77	9.23	MF52A332J3470
4.7K	5%	317-1256-ND	.32	2.77	9.23	MF52A472J3470
6.8K		317-1257-ND	.32	2.77	9.23	MF52A682J3470
10K		317-1258-ND	.32	2.77	9.23	MF52A103J3470
15K		317-1259-ND	.32	2.77	9.23	MF52A153J3470
22K		317-1260-ND	.32	2.77	9.23	MF52A223J3470
33K	5%	317-1363-ND	.32	2.77	9.23	MF52A333J3950
47K		317-1364-ND	.32	2.77	9.23	MF52A473J3950
68K		317-1263-ND	.32	2.77	9.23	MF52A683J3950
100K		317-1264-ND	.32	2.77	9.23	MF52A104J3950
220K		317-1265-ND	.32	2.77	9.23	MF52A224J4150
MF72 Series						
5	20%	317-1144-ND	.36	3.15	10.49	MF72-005D5
10		317-1145-ND	.36	3.15	10.49	MF72-010D5
60		317-1146-ND	.36	3.15	10.49	MF72-060D5
200		317-1147-ND	.36	3.15	10.49	MF72-200D5
5		317-1148-ND	.36	3.15	10.49	MF72-005D7
8	20%	317-1149-ND	.36	3.15	10.49	MF72-008D7
10		317-1150-ND	.36	3.15	10.49	MF72-010D7
12		317-1151-ND	.36	3.15	10.49	MF72-012D7
16		317-1152-ND	.36	3.15	10.49	MF72-016D7
22		317-1153-ND	.36	3.15	10.49	MF72-022D7
33	20%	317-1154-ND	.36	3.15	10.49	MF72-033D7
200		317-1155-ND	.36	3.15	10.49	MF72-200D7
3		317-1156-ND	.40	3.47	11.53	MF72-003D9
4		317-1157-ND	.40	3.47	11.53	MF72-004D9
5		317-1158-ND	.40	3.47	11.53	MF72-005D9
6	20%	317-1159-ND	.40	3.47	11.53	MF72-006D9
8		317-1160-ND	.40	3.47	11.53	MF72-008D9
10		317-1161-ND	.40	3.47	11.53	MF72-010D9
12		317-1162-ND	.40	3.47	11.53	MF72-012D9
16		317-1163-ND	.40	3.47	11.53	MF72-016D9
20	20%	317-1164-ND	.40	3.47	11.53	MF72-020D9
22		317-1165-ND	.40	3.47	11.53	MF72-022D9
30		317-1166-ND	.40	3.47	11.53	MF72-030D9
33		317-1167-ND	.40	3.47	11.53	MF72-033D9
50		317-1168-ND	.40	3.47	11.53	MF72-050D9
60	20%	317-1169-ND	.40	3.47	11.53	MF72-060D9
80		317-1170-ND	.40	3.47	11.53	MF72-080D9
120		317-1171-ND	.40	3.47	11.53	MF72-120D9
200		317-1172-ND	.40	3.47	11.53	MF72-200D9
400		317-1173-ND	.40	3.47	11.53	MF72-400D9
2.5	20%	317-1174-ND	.46	4.03	13.42	MF72-002.5D11
3		317-1175-ND	.46	4.03	13.42	MF72-003D11
4		317-1176-ND	.46	4.03	13.42	MF72-004D11
5		317-1177-ND	.46	4.03	13.42	MF72-005D11
6		317-1178-ND	.46	4.03	13.42	MF72-006D11
8	20%	317-1179-ND	.46	4.03	13.42	MF72-008D11
10		317-1180-ND	.46	4.03	13.42	MF72-010D11
12		317-1181-ND	.46	4.03	13.42	MF72-012D11
12		317-1181-ND	.46	4.03	13.42	MF72-012D11
16		317-1182-ND	.46	4.03	13.42	MF72-016D11
20	20%	317-1183-ND	.46	4.03	13.42	MF72-020D11
22		317-1184-ND	.46	4.03	13.42	MF72-022D11
30		317-1185-ND	.46	4.03	13.42	MF72-030D11
33		317-1186-ND	.46	4.03	13.42	MF72-033D11
50		317-1187-ND	.46	4.03	13.42	MF72-050D11
60	20%	317-1188-ND	.46	4.03	13.42	MF72-060D11
80		317-1189-ND	.46	4.03	13.42	MF72-080D11
1.3		317-1190-ND	.82	7.21	24.00	MF72-001.3D13
1.5		317-1191-ND	.82	7.21	24.00	MF72-001.5D13
2.5		317-1192-ND	.82	7.21	24.00	MF72-002.5D13
3	20%	317-1193-ND	.82	7.21	24.00	MF72-003D13
4		317-1194-ND	.82	7.21	24.00	MF72-004D13
5		317-1195-ND	.82	7.21	24.00	MF72-005D13
6		317-1196-ND	.82	7.21	24.00	MF72-006D13
7		317-1197-ND	.82	7.21	24.00	MF72-007D13
8	20%	317-1198-ND	.82	7.21	24.00	MF72-008D13
10		317-1199-ND	.82	7.21	24.00	MF72-010D13
12		317-1200-ND	.82	7.21	24.00	MF72-012D13
15		317-1201-ND	.82	7.21	24.00	MF72-015D13
16		317-1202-ND	.82	7.21	24.00	MF72-016D13
20	20%	317-1203-ND	.82	7.21	24.00	MF72-020D13
30		317-1204-ND	.82	7.21	24.00	MF72-030D13
47		317-1205-ND	.82	7.21	24.00	MF72-047D13
120		317-1206-ND	.82	7.21	24.00	MF72-120D13
1.3		317-1207-ND	1.19	10.40	34.60	MF72-001.3D15
1.5	20%	317-1208-ND	1.19	10.40	34.60	MF72-001.5D15
3		317-1209-ND	1.19	10.40	34.60	MF72-003D15
5		317-1210-ND	1.19	10.40	34.60	MF72-005D15
6		317-1211-ND	1.19	10.40	34.60	MF72-006D15
7		317-1212-ND	1.19	10.40	34.60	MF72-007D15
8	20%	317-1213-ND	1.19	10.40	34.60	MF72-008D15
10		317-1214-ND	1.19	10.40	34.60	MF72-010D15
12		317-1215-ND	1.19	10.40	34.60	MF72-012D15
15		317-1216-ND	1.19	10.40	34.60	MF72-015D15
16		317-1217-ND	1.19	10.40	34.60	MF72-016D15
20	20%	317-1218-ND	1.19	10.40	34.60	MF72-020D15
30		317-1219-ND	1.19	10.40	34.60	MF72-030D15
47		317-1220-ND	1.19	10.40	34.60	MF72-047D15
120		317-1221-ND	1.19	10.40	34.60	MF72-120D15
0.7		317-1222-ND	3.63	31.75	105.67	MF72-000.7D20
1.3	20%	317-1223-ND	3.63	31.75	105.67	MF72-001.3D20
3		317-1224-ND	3.63	31.75	105.67	MF72-003D20
5		317-1225-ND	3.63	31.75	105.67	MF72-005D20
6		317-1226-ND	3.63	31.75	105.67	MF72-006D20
8		317-1228-ND	3.63	31.75	105.67	MF72-008D20
10	20%	317-1229-ND	3.63	31.75	105.67	MF72-010D20
12		317-1230-ND	3.63	31.75	105.67	MF72-012D20
16		317-1231-ND	3.63	31.75	105.67	MF72-016D20
0.7		317-1232-ND	5.92	51.80	172.42	MF72-000.7D25
1.5		317-1233-ND	5.92	51.80	172.42	MF72-001.5D25
3	20%	317-1234-ND	5.92	51.80	172.42	MF72-003D25
5		317-1235-ND	5.92	51.80	172.42	MF72-005D25
8		317-1236-ND	5.92	51.80	172.42	MF72-008D25
10		317-1237-ND	5.92	51.80	172.42	MF72-010D25
12		317-1238-ND	5.92	51.80	172.42	MF72-012D25
16		317-1239-ND	5.92	51.80	172.42	MF72-016D25

U.S.SENSOR Thermistors

Precision Thermistor

U.S. Sensor's standard precision interchangeable thermistors are low cost, highly accurate, stable devices designed specifically for temperature sensing and control applications. They are particularly suited for uses where their precision interchangeability eliminates the necessity for costly individual circuit calibration.

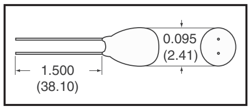

Resistance (Ω) @ 25°C	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
Bare Leads (±0.1°C from 0°C ~ 70°C)						
2252	615-1000-ND	8.90	4.70	3.06	1.71	PS222J2
3000	615-1001-ND	8.90	4.70	3.06	1.71	PS302J2
5000	615-1002-ND	8.90	4.70	3.06	1.71	PS502J2
10000	615-1003-ND	8.90	4.70	3.06	1.71	PS103J2
30000	615-1004-ND	8.90	4.70	3.06	1.71	PS303J2
50000	615-1005-ND	8.90	4.70	3.06	1.71	PS503J2
100000	615-1006-ND	8.90	4.70	3.06	1.71	PS104J2
Bare Leads (±0.2°C from 0°C ~ 70°C)						
2252	615-1007-ND	7.10	3.76	2.45	1.39	PT222J2
3000	615-1008-ND	7.10	3.76	2.45	1.39	PT302J2
5000	615-1009-ND	7.10	3.76	2.45	1.39	PT502J2
10000	615-1010-ND	7.10	3.76	2.45	1.39	PT103J2
30000	615-1011-ND	7.10	3.76	2.45	1.39	PT303J2
50000	615-1012-ND	7.10	3.76	2.45	1.39	PT503J2
100000	615-1013-ND	7.10	3.76	2.45	1.39	PT104J2

NEW! Standard Leaded Epoxy Coated Thermistors

Specifications:

- **Thermal Time Constant:** 2 seconds maximum in a well stirred oil bath, 15 seconds maximum in still air.
- **Dissipation Constant:** 3mW/°C

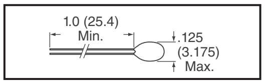

Resistance (Ω) @ 25°C	Tolerance @ 25°C	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
10000	±2%	615-1054-ND	8.20	4.50	2.88	1.65	DC103G9G

Surface Mount NTC Thermistors

"MELF" style glass encapsulated surface mount.

Specifications: • **Thermal Time Constant:** 8 seconds maximum • **Dissipation Constant:** 2mW/°C • **Maximum Operating Temperature:** 220°C

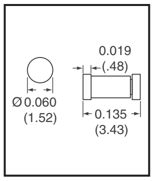

Resistance (Ω) @ 25°C	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
10000	615-1034-ND	12.33	4.92	2.96	1.48	SM103J1K
50000	615-1035-ND	12.33	4.92	2.96	1.48	SM503J1K
100000	615-1036-ND	12.33	4.92	2.96	1.48	SM104J1K

Power Thermistors

U.S. Sensor's inrush current limiting power thermistors are specially formulated and processed NTC thermistors suitable for suppressing high inrush currents in switching power supplies and other applications where the high initial starting currents are undesirable.

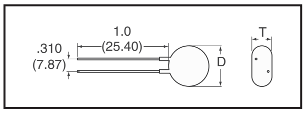

Res. (Ω) @ 25°C	Dimensions - Inch (mm) D	T	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
1.0	0.900 (22.86)	0.300 (7.62)	615-1046-ND	10.78	6.34	3.70	2.25	ST1R020B
1.0	1.250 (31.75)	0.250 (6.35)	615-1047-ND	13.69	8.06	4.70	2.87	ST1R030B
2.0	0.900 (22.86)	0.350 (8.89)	615-1048-ND	10.81	6.37	3.72	2.26	ST2R018B
2.5	0.900 (22.86)	0.300 (7.62)	615-1049-ND	10.81	6.37	3.72	2.26	ST2R515B
5.0	0.600 (15.24)	0.250 (6.35)	615-1053-ND	2.70	2.43	2.03	1.77	ST5R007B
10.0	0.450 (11.43)	0.300 (7.62)	615-1051-ND	2.25	2.09	1.70	1.53	ST10003B
10.0	0.600 (15.24)	0.350 (8.89)	615-1052-ND	2.25	2.09	1.70	1.53	ST10006B
10.0	1.250 (31.75)	0.300 (7.62)	615-1050-ND	13.37	7.86	4.59	2.79	ST10010B

NEW! Ring Lug Thermistors

Specifications:

• Ring tongue mounting hole diameter: 0.145" nominal • Ring tongue mounting hole stud size: #6 • UL Recognized File Number E232830

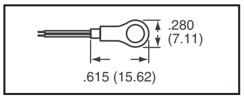

Resistance (Ω) @ 25°C	Tolerance @ 25°C	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
10000	±2%	615-1060-ND	39.81	26.28	18.40	10.70	USUR1000-103G
10000	±5%	615-1061-ND	30.19	19.90	14.60	8.50	USUR1000-103J
100000	±2%	615-1062-ND	39.81	26.28	18.40	10.70	USUR1000-104G
100000	±5%	615-1063-ND	30.19	19.90	14.60	8.50	USUR1000-104J

Glass Encapsulated Thermistors

Specifications: DO-35 package • **Thermal Time Constant:** (Fig. 1) 5 seconds (still air); 0.5 seconds (stirred liquid) • **Dissipation Constant:** 2mW/°C (still air) • **Maximum Power Rating:** (Fig. 2) 20mW

Fig. 1

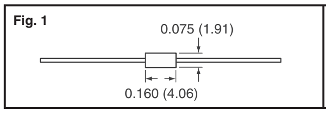

Fig. 2 ***NEW!***

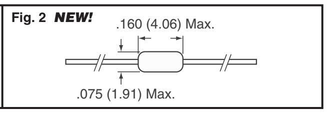

Resistance (Ω) @ 25°C	Tolerance @ 25°C	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
Fig. 1 - Standard							
2500	±5%	615-1014-ND	3.30	2.89	1.73	.87	252FG1J
5000	±5%	615-1015-ND	3.30	2.89	1.73	.87	502FG1J
10000	±5%	615-1016-ND	.80	.73	.68	.62	103JG1J
20000	±5%	615-1017-ND	.80	.73	.68	.62	203JG1J
30000	±5%	615-1018-ND	.80	.73	.68	.62	303JG1J
50000	±5%	615-1019-ND	.80	.73	.68	.62	503JG1J
100000	±5%	615-1020-ND	.80	.73	.68	.62	104JG1J
250000	±5%	615-1021-ND	.80	.73	.68	.62	254JG1J
500000	±5%	615-1022-ND	4.43	3.86	2.55	1.30	504RG1J
1000000	±5%	615-1023-ND	4.43	3.86	2.55	1.30	105RG1J
10000	±1%	615-1024-ND	10.45	4.18	2.50	1.25	103JG1F
20000	±1%	615-1025-ND	10.45	4.18	2.50	1.25	203JG1F
30000	±1%	615-1026-ND	10.45	4.18	2.50	1.25	303JG1F
50000	±1%	615-1027-ND	10.45	4.18	2.50	1.25	503JG1F
100000	±1%	615-1028-ND	10.45	4.18	2.50	1.25	104JG1F
Fig. 1 - Interchangeable							
10000	±0.5%	615-1029-ND	15.30	6.12	3.67	1.84	103JL1A
20000	±0.5%	615-1030-ND	16.07	6.42	3.86	1.93	203JL1A
25000	±0.5%	615-1031-ND	19.89	7.96	4.77	2.39	253JL1A
50000	±0.5%	615-1032-ND	19.89	7.96	4.77	2.39	503JL1A
100000	±0.5%	615-1033-ND	19.89	6.12	3.67	1.84	104JL1A
NEW! Fig. 2 - UL Recognized NEW!							
10000	±2%	615-1056-ND	7.32	4.10	2.31	1.56	USUG1000-103G
10000	±5%	615-1057-ND	2.73	1.78	1.14	.92	USUG1000-103J
100000	±2%	615-1058-ND	7.32	4.10	2.31	1.56	USUG1000-104G
100000	±5%	615-1059-ND	2.73	1.78	1.14	.92	USUG1000-104J

Platinum RTDs

Specifications:
• **Thermal time constant:** 15 seconds maximum (moving air) • **Dissipation constant:** 2mW/°C (moving air) • **Maximum applied current:** 1mA

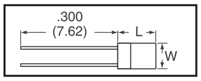

Res. (Ω) @ 0°C	Dimensions - Inch (mm) W	L	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
100	0.067 (1.70)	0.095 (2.41)	615-1037-ND	18.50	13.69	11.10	4.07	PPG101A1
100	0.067 (1.70)	0.095 (2.41)	615-1038-ND	15.35	11.36	9.21	3.37	PPG101B1
100	0.067 (1.70)	0.095 (2.41)	615-1039-ND	13.82	10.23	8.29	3.07	PPG101C1
500	0.079 (2.01)	0.118 (3.00)	615-1040-ND	18.50	13.69	11.10	4.07	PPG501A1
500	0.079 (2.01)	0.118 (3.00)	615-1041-ND	15.35	11.36	9.21	3.37	PPG501B1
500	0.079 (2.01)	0.118 (3.00)	615-1042-ND	13.82	10.23	8.29	3.07	PPG501C1
1000	0.079 (2.01)	0.118 (3.00)	615-1043-ND	18.50	13.69	11.10	4.07	PPG102A1
1000	0.079 (2.01)	0.118 (3.00)	615-1044-ND	15.35	11.36	9.21	3.37	PPG102B1
1000	0.079 (2.01)	0.118 (3.00)	615-1045-ND	13.82	10.23	8.29	3.07	PPG102C1

NEW! Laboratory Grade Temperature Probes

Laboratory Grade NTC Thermistor Temperature Standards are manufactured with ultra high stability thermistor elements.

Features: • NIST traceability • High accuracy ±0.01°C • Durable

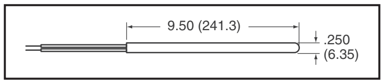

Nominal Resistance Omega @ 25°C	Temperature Range (°C)	Digi-Key Part No.	Price Each	U.S. Sensor Part No.
10000	-20 ~ 70	615-1066-ND	500.00	USP3021
100000	0 ~ 105	615-1067-ND	500.00	USP3986

NEW! Thermistor Probes

Fig. 1

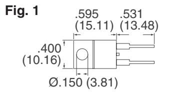

Fig. 2

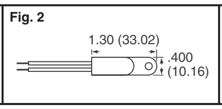

Fig. 3

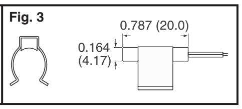

Fig.	Type	Resistance (Ω) @ 25°C	Tolerance @ 25°C	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
1	TO-220	10000	±10%	615-1055-ND	5.30	2.85	1.79	.98	TO103J2K
2	Probe	10000	±1%	615-1064-ND	26.94	16.20	10.53	5.16	USP7765
3	Pipe Clamp	10000	±1%	615-1065-ND	37.20	18.79	11.43	5.51	USP7766

AMETHERM Circuit Protection Thermistors PANE and PANR Series NTC Thermistor Probes

The PANE series Thermistor Probes are designed for use in environments that are not as harsh as those that require a housing. Common for monitoring the temperature of a heat sink. The PANR series NTC Thermistor Probes are designed to be used for surface temperature bolt-in-place applications. They are often used in such applications as monitoring and controlling temperatures of small motors, heat exchangers and pumping systems.

Lead Specifications: • Wire AWG: 28AWG tinned copper (Cu) • Wire Length: 154.2mm Nom. • Wire Insulation: Teflon

Electrical Specifications: • Resistance @ 25°C: 10000Ω ± 10% • Beta: 3950°K ± 2% • Curve: L • Dissipation Constant: 3.0mW/°C • Time Constant: 6 seconds • Operating Temperature: -50°C ~ 150°C

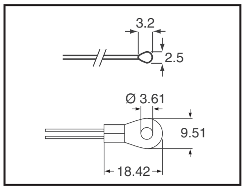

Description	Digi-Key Part. No.	Price Each 1	10	100	Ametherm Part No.
PANE NTC Thermistor Bead Probe	570-1065-ND	2.56	2.28	1.23	PANE 103395-410
PANR NTC Thermistor Ring Probe	570-1066-ND	3.11	1.92	1.45	PANR 103395-408

VISHAY Beyschlag

PTS Series Platinum SMD Flat Chip Temperature Sensors

Digi-Reel® RoHS COMPLIANT

PTS SMD Flat Chip Temperature Sensors are the perfect choice for temperature control of electronics operating under varying environmental conditions. The highly controlled platinum thin film manufacturing process guarantees an outstanding stability of temperature characteristics which ensures reliable operation even under harsh conditions. **Applications:** • Automotive electronics • Aviation electronics • Industrial electronics **Specifications:** • Temperature Coefficient (0°C ~ 100°C): 3850ppm/K • Temperature Range: -55°C ~ 155°C • Insulation Resistance: >10MΩ • Tolerance Class: B

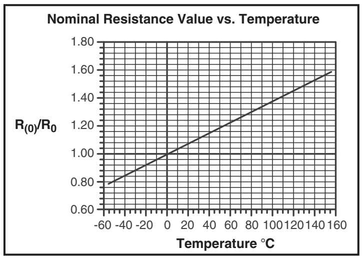

Size Code	Dimensions - mm						Mass (mg)
	H	L	W	W_T	T_1	T_2	
0603	0.45 +0.1/-0.05	1.55 ±0.05	0.85 ±0.1	>75% of W	0.3 +0.15/-0.2	0.3 +0.15/-0.2	1.9
0805	0.45 +0.1/-0.05	2.0 ±0.1	1.25 ±0.15	>75% of W	0.4 +0.1/-0.2	0.4 +0.1/-0.2	4.6
1206	0.55 ±0.1	3.2 +0.1/-0.2	1.6 ±0.15	>75% of W	0.4 +0.1/-0.2	0.4 +0.1/-0.2	9.2

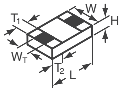

Size Code	Resistance Value R_0 at 0°C (Ω)	Thermal Response Time† (s)		Measurement Current $I_{meas.}$ (DC) (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	Vishay Beyschlag Part No.
		$t_{0.5}$	$t_{0.9}$			1	10	100			
0603	100	≤1.0	≤2.0	0.1 ~ 0.25	PTS0603100CT-ND	2.80	2.45	1.93	PTS0603100TR-ND	1050.00	PTS060301B100RP100
0805	100	≤1.5	≤3.0	0.1 ~ 1.0	PTS0805100CT-ND	4.64	4.06	3.19	PTS0805100TR-ND	1740.00	PTS080501B100RP100
	500	≤1.5	≤3.0	0.1 ~ 0.25	PTS0805500CT-ND	4.92	4.31	3.39	PTS0805500TR-ND	1845.00	PTS080501B500RP100
1206	100	≤2.0	≤5.0	0.1 ~ 1.0	PTS1206100CT-ND	6.12	5.36	4.21	PTS1206100TR-ND	2295.00	PTS120601B100RP100
	500	≤2.0	≤5.0	0.1 ~ 0.25	PTS1206500CT-ND	6.48	5.67	4.46	PTS1206500TR-ND	2430.00	PTS120601B500RP100
	1000	≤2.0	≤5.0	0.1 ~ 0.25	PTS12061.0KCT-ND	6.88	6.02	4.73	PTS12061.0KTR-ND	2580.00	PTS120601B1K00P100

† Flowing Air (v = 3.0 m/s)

VISHAY BC COMPONENTS

Leaded NTC Thermistors — Accuracy Line

RoHS COMPLIANT

These thermistors have a negative temperature coefficient. **Fig. 1** – The device consists of a chip with two tinned Ni-leads and is color coded. **Fig. 2** – The device consists of a chip with two tinned solid copper-plated leads, is gray lacquered and color coded, but not insulated. **Applications:** Temperature sensing and control.

Fig. 1

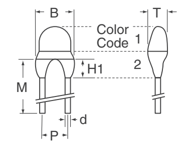

Fig. 2

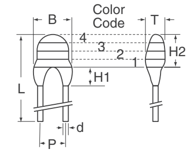

Fig.	Dimensions - mm							
	B (max.)	d	H1 (max.)	H2 (max.)	L	M	P	T (max.)
1	3.4	0.4	2.0 ±1.0	—	—	40.0 ±1.5	2.54	3.0
2	3.3 ±0.5	0.6 ±0.06	2.0 ±1.0	6.0	24.0 ±1.5	—	2.54	3.0

Fig.	Resistance @ 25°C (kΩ)	Tolerance @ 25°C	B Value/ B Tolerance @ B25/85	Color Code				Digi-Key Part No.	Price Each			Vishay Part No.
				1	2	3	4		1	10	100	
1	10	±1%	3977K ±0.75%	Blue	Blue	—	—	BC2299-ND	1.81	1.63	1.29	2381 640 55103
	100	±1%	4190K ±1.5%	Brown	Brown	—	—	BC2300-ND	1.91	1.72	1.36	2381 640 55104
	10	±2%	3977K ±0.75%	Blue	Blue	—	—	BC2298-ND	1.09	.98	.78	2381 640 54103
2	2.7	±3%	3977K ±0.75%	Red	Violet	Red	Orange	BC2312-ND	.85	.77	.61	2381 640 66272
	4.7	±3%	3977K ±0.75%	Yellow	Violet	Red	Orange	BC2313-ND	.68	.62	.49	2381 640 66472
	10	±3%	3977K ±0.75%	Brown	Black	Orange	Orange	BC2311-ND	.68	.62	.49	2381 640 66103
	47	±3%	4090K ±1.5%	Yellow	Violet	Orange	Orange	BC2314-ND	.68	.62	.49	2381 640 66473
	2.2	±5%	3977K ±0.75%	Red	Red	Red	Gold	BC2304-ND	.57	.52	.41	2381 640 63222
	3.3	±5%	3977K ±0.75%	Orange	Orange	Red	Gold	BC2307-ND	.57	.52	.41	2381 640 63332
	6.8	±5%	3977K ±0.75%	Blue	Gray	Red	Gold	BC2310-ND	.57	.52	.41	2381 640 63682
	10	±5%	3977K ±0.75%	Brown	Black	Orange	Gold	BC2301-ND	.57	.52	.41	2381 640 63103
	15	±5%	3740K ±2%	Brown	Green	Orange	Gold	BC2303-ND	.57	.52	.41	2381 640 63153
	22	±5%	3740K ±2%	Red	Red	Orange	Gold	BC2305-ND	.57	.52	.41	2381 640 63223
	33	±5%	4090K ±1.5%	Orange	Orange	Orange	Gold	BC2308-ND	.57	.52	.41	2381 640 63333
	47	±5%	4090K ±1.5%	Yellow	Violet	Orange	Gold	BC2309-ND	.57	.52	.41	2381 640 63473
	100	±5%	4190K ±1.5%	Brown	Black	Yellow	Gold	BC2302-ND	.57	.52	.41	2381 640 63104
	220	±5%	4370K ±2.5%	Red	Red	Yellow	Gold	BC2306-ND	.57	.52	.41	2381 640 63224

Surface Mount NTC Chip Thermistors

Digi-Reel®

Surface Mount NTC Chip Thermistors have a negative temperature coefficient. The device has no marking.

Terminations: • 0402 and 0603: NiSn • 0805: Ni

Applications: • Temperature compensation, sensing and protection in: battery chargers, consumer equipment, and office equipment

Features: • High accuracy over wide ranges of operating temperature (-40°C ~ 150°C) • Suitable for wave or reflow soldering • High sensitivity • Taped on reel

Size Code	Dimensions - mm				
	L_1	W	T	L_2 and L_3 Minimum	L_4 Minimum
0402	1.0 ±0.15	0.5 ±0.15	0.5 ±0.15	0.1	0.3
0603	1.6 ±0.15	0.8 ±0.15	0.8 ±0.15	0.2	0.4
0805	2.0 ±0.2	1.25 ±0.2	0.8 ±0.15	0.2	0.55

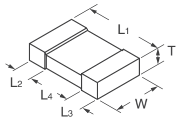

Size Code	Resistance @ 25°C (kΩ)	Tolerance @ 25°C	B Value/ B Tolerance @ B25/85	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Vishay Part No.
					1	10	100	Qty.	Pricing	
0402	4.7	±3%	3595K ±3%	BC2326CT-ND◆	.41	.36	.29	10,000	153.00/M	2381 615 46472
	10	±3%	3490K ±3%	BC2328CT-ND◆	.41	.36	.29	10,000	153.00/M	2381 615 46103
	15	±3%	3600K ±3%	BC2330CT-ND◆	.41	.36	.29	10,000	153.00/M	2381 615 46153
	22	±3%	3590K ±3%	BC2332CT-ND◆	.41	.36	.29	10,000	153.00/M	2381 615 46223
	33	±3%	3670K ±3%	BC2334CT-ND◆	.41	.36	.29	10,000	153.00/M	2381 615 46333
	47	±3%	4075K ±3%	BC2336CT-ND◆	.41	.36	.29	10,000	153.00/M	2381 615 46473
	68	±3%	3910K ±3%	BC2338CT-ND◆	.41	.36	.29	10,000	153.00/M	2381 615 46683
	100	±3%	3950K ±3%	BC2340CT-ND◆	.41	.36	.29	10,000	153.00/M	2381 615 46104
	4.7	±5%	3595K ±3%	BC2327CT-ND◆	.34	.30	.24	10,000	128.00/M	2381 615 43472
	10	±5%	3490K ±3%	BC2329CT-ND◆	.34	.30	.24	10,000	128.00/M	2381 615 43103
	15	±5%	3600K ±3%	BC2331CT-ND◆	.34	.30	.24	10,000	128.00/M	2381 615 43153
	22	±5%	3590K ±3%	BC2333CT-ND◆	.34	.30	.24	10,000	128.00/M	2381 615 43223
	33	±5%	3670K ±3%	BC2335CT-ND◆	.34	.30	.24	10,000	128.00/M	2381 615 43333
	47	±5%	4075K ±3%	BC2337CT-ND◆	.34	.30	.24	10,000	128.00/M	2381 615 43473
	68	±5%	3910K ±3%	BC2339CT-ND◆	.34	.30	.24	10,000	128.00/M	2381 615 43683
	100	±5%	3950K ±3%	BC2341CT-ND◆	.34	.30	.24	10,000	128.00/M	2381 615 43104
0603	10	±3%	3610K ±1%	BC2290CT-ND◆	.38	.34	.27	4,000	213.00/M	2381 615 36103
	68	±3%	3985K ±1%	BC1547CT-ND	.62	.55	.43	4,000	232.20/M	2322 615 36683
	100	±3%	4100K ±1%	BC2291CT-ND◆	.57	.50	.40	4,000	213.00/M	2381 615 36104
	4.7	±5%	3830K ±1%	BC1538CT-ND	.44	.39	.31	—	—	2322 615 33472
	10	±5%	3610K ±1%	BC2289CT-ND◆	.44	.39	.31	4,000	165.00/M	2381 615 33103
	15	±5%	3600K ±1%	BC1540CT-ND	.59	.52	.41	4,000	220.50/M	2322 615 33153
	100	±5%	4100K ±1%	BC1542CT-ND	.59	.52	.41	4,000	220.50/M	2322 615 33104
0805	2.2	±5%	3600K ±1%	BC2294CT-ND◆	.41	.36	.29	4,000	153.00/M	2381 615 53222
	4.7	±5%	3500K ±1%	BC2296CT-ND◆	.41	.36	.29	4,000	153.00/M	2381 615 53472
	10	±5%	3570K ±3%	BC2292CT-ND◆	.41	.36	.29	4,000	153.00/M	2381 615 53103
	15	±5%	3700K ±1%	BC2293CT-ND◆	.41	.36	.29	4,000	153.00/M	2381 615 53153
	22	±5%	3800K ±1%	BC1520CT-ND	.41	.36	.29	—	—	2322 615 53223
	22	±5%	3800K ±1%	BC2295CT-ND◆	.41	.36	.29	4,000	153.00/M	2381 615 53223
	47	±5%	3960K ±1%	BC2297CT-ND◆	.41	.36	.29	4,000	153.00/M	2381 615 53473

◆ ***RoHS Compliant*** † For Tape and Reel part number change CT-ND to TR-ND.

N

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

NTC Thermistors for Surface and Pipe Measurement

Features:

- Short response time through glass encapsulated NTC thermistor
- Fast and easy mounting

Specifications:

- Maximum power: 18mW
- Thermal time constant: <5s
- Insulation resistance: >10MΩ

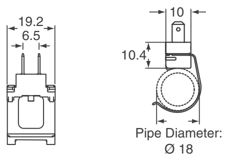

Dimensions in mm

Resistance @ 25°C (kΩ)	B25/100 (K)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
10	4006±2%	495-2627-ND	7.42	6.50	5.11	B58100A0406A000

NTC Thermistors with Wire Leads

Dimensions in mm

Features:

- Fast response
- High measuring accuracy
- Epoxy resin encapsulation
- PTFE-insulated leads
- UL approval (E69802)

Applications:

- Heating systems
- Industrial electronics
- Automotive electronics

Specifications:

- Climatic category: 55/155/56
- Maximum power: 60mW

Fig. 1

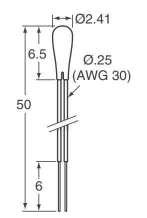

Fig. 2

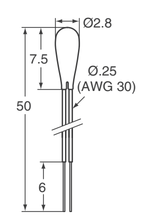

Fig.	Res. @ 25°C (kΩ)	Resistance Tolerance	B25/100 (K)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	2	±1%	3560	495-2144-ND	2.45	2.15	1.69	B57861S0202F040
	3	±1%	3988	495-2145-ND	2.45	2.15	1.69	B57861S0302F040
	3	±1%	3988	495-2150-ND‡	3.20	2.80	2.20	B57863S0302F040
	5	±1%	3988	495-2147-ND	2.45	2.15	1.69	B57861S0502F040
	5	±1%	3988	495-2152-ND‡	3.20	2.80	2.20	B57863S0502F040
	10	±1%	3988	495-2142-ND	2.45	2.15	1.69	B57861S0103F040
	10	±1%	3988	495-2149-ND‡	3.20	2.80	2.20	B57863S0103F040
	30	±1%	3964	495-2146-ND	2.45	2.15	1.69	B57861S0303F040
	30	±1%	3964	495-2151-ND‡	3.20	2.80	2.20	B57863S0303F040
	50	±1%	3760	495-2148-ND	2.45	2.15	1.69	B57861S0503F040
	100	±1%	4540	495-2143-ND	2.45	2.15	1.69	B57861S0104F040
2	2.8	±1%	3988	495-2167-ND	3.70	3.24	2.55	B57862S0282F040
	5	±1%	3988	495-2168-ND	3.70	3.24	2.55	B57862S0502F040
	10	±1%	3988	495-2166-ND	3.70	3.24	2.55	B57862S0103F040

‡ Uni-Curve Sensor

NTC Thermistors
for Temperature Measurement Insulated

Dimensions in mm

Features:

- Glass encapsulated
- Highly Stable
- Heat resistant
- Coating of glass body and leads for electrical insulation
- Fast response
- Dumet wires for leads (copper clad FeNi)

Applications:

- Automotive electronics
- Industrial electronics
- Home appliances

Specifications:

- Maximum power: 18mW (B57541); 32mW (B57551); 50mW (B57561)
- Climatic category: 55/250/56

Fig. 1

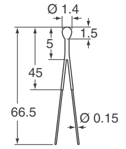

Fig. 2

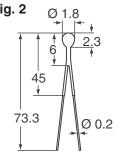

Fig. 3

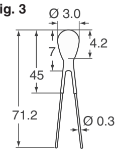

Fig.	Res. @ 25°C (kΩ)	Resistance Tolerance	B25/85 (K)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	10	±1%	3480	495-2623-ND	5.15	4.51	3.55	B57541G0103F000
2	10	±1%	3480	495-2624-ND	4.65	4.07	3.20	B57551G0103F000
3	10	±1%	3480	495-2625-ND	4.80	4.20	3.30	B57561G0103F000

Leaded NTC Thermistors
Glass Encapsulated for Temperature Measurement

Dimensions in mm

Features:
• Heat resistant • Highly stable • Measures temperatures up to 300°C • Fast response • Small dimensions • Leads are dumet wires (copper clad FeNi)

Applications:
• Automotive electronics • Industrial electronics • Home appliances

Specifications:
• Climatic category: 55/250/56 (B57540 series); 55/300/56 (B57550 and B57560 series) • Maximum power: 18mW (B57540 series); 32mW (B57550 series); 50mW (B57560 series)

Fig. 1

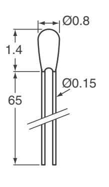

Fig. 2

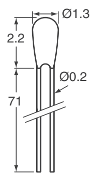

Fig. 3

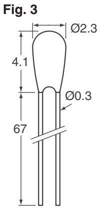

Fig.	Res. @ 25°C (kΩ)	Resistance Tolerance	B25/85 (K)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	5	±1%	3480	495-2128-ND	4.10	3.59	2.82	B57540G0502F000
	10	±1%	3480	495-2124-ND	4.10	3.59	2.82	B57540G0103F000
	30	±1%	3992	495-2127-ND	4.10	3.59	2.82	B57540G0303F000
	50	±1%	3992	495-2129-ND	4.10	3.59	2.82	B57540G0503F000
	100	±1%	4066	495-2125-ND	4.10	3.59	2.82	B57540G0104F000
2	5	±1%	3480	495-2133-ND	3.60	3.15	2.48	B57550G0502F000
	10	±1%	3480	495-2130-ND	3.60	3.15	2.48	B57550G0103F000
	30	±1%	3992	495-2132-ND	3.60	3.15	2.48	B57550G0303F000
	50	±1%	3992	495-2134-ND	3.60	3.15	2.48	B57550G0503F000
	100	±1%	4066	495-2131-ND	3.60	3.15	2.48	B57550G0104F000
3	5	±1%	3480	495-2137-ND	3.70	3.24	2.55	B57560G0502F000
	10	±1%	3480	495-2135-ND	3.70	3.24	2.55	B57560G0103F000
	50	±1%	3992	495-2622-ND	3.70	3.24	2.55	B57560G0503F000
	100	±1%	4066	495-2136-ND	3.70	3.24	2.55	B57560G0104F000

Leaded NTC Thermistors
for Temperature Measurement

B57871S Series:

Features: • High measuring accuracy • Cost effective • Rugged design • Epoxy resin encapsulation • Tinned copper leads **Applications:** • Temperature measurement **Specifications:** • Climatic category: 55/155/56 • Maximum power: 60mW • Resistance Tolerance: ±1%

B57891M Series:

Features: • Wide resistance range • Cost effective • Lacquer coated thermistor disk • Leads are tinned copper-clad Fe wire **Applications:** • Temperature compensation • Temperature measurement • Temperature control **Specifications:** • Climatic category: 40/125/56 • Maximum power: 200mW

B57891S Series:

Features: • Wide resistance range • Cost effective • Lacquer coated thermistor disk • Leads are tinned copper-clad Fe wire **Applications:** • Temperature compensation • Temperature measurement • Temperature control **Specifications:** • Climatic category: 55/155/56 • Maximum power: 200mW

Dimensions in mm

Fig. 1

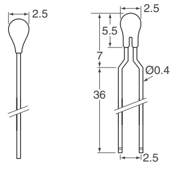

Fig. 2

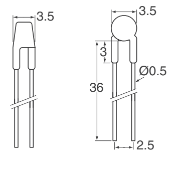

Fig. 3

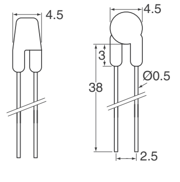

Fig.	Res. @ 25°C (kΩ)	Resistance Tolerance	B25/100 (K)	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
B57871S Series								
1	2.1	±1%	3560	495-3035-ND	2.35	2.06	1.62	B57871S0212F000
	10	±1%	3460	495-3036-ND	2.35	2.06	1.62	B57871S0103F002
	10	±1%	3988	495-2153-ND	2.35	2.06	1.62	B57871S0103F001
	12	±1%	3760	495-3037-ND	2.35	2.06	1.62	B57871S0123F000
B57891M Series								
2	1.0	±5%	3930	495-2156-ND	.70	.62	.49	B57891M0102J000
	1.5	±5%	3560	495-3064-ND	.70	.62	.49	B57891M0152J000
	2.2	±5%	3900	495-3067-ND	.70	.62	.49	B57891M0222J000
	3.3	±5%	3980	495-3070-ND	.70	.62	.49	B57891M0332J000
	4.7	±5%	3980	495-2161-ND	.70	.62	.49	B57891M0472J000
	6.8	±5%	3980	495-3071-ND	.70	.62	.49	B57891M0682J000
	10	±5%	3950	495-2157-ND	.70	.62	.49	B57891M0103J000
	15	±5%	4100	495-3065-ND	.70	.62	.49	B57891M0153J000
	22	±5%	4300	495-3068-ND	.70	.62	.49	B57891M0223J000
	33	±5%	4300	495-2159-ND	.70	.62	.49	B57891M0333J000
	100	±5%	4450	495-2158-ND	.70	.62	.49	B57891M0104J000
	150	±5%	4600	495-3066-ND	.70	.62	.49	B57891M0154J000
	220	±5%	4600	495-3069-ND	.70	.62	.49	B57891M0224J000
	330	±5%	4830	495-2160-ND	.70	.62	.49	B57891M0334J000
	470	±5%	5000	495-2162-ND	.70	.62	.49	B57891M0474J000
B57891S Series								
3	5	±1%	3980	495-2165-ND	1.75	1.54	1.21	B57891S0502F008
	10	±1%	3950	495-2163-ND	1.75	1.54	1.21	B57891S0103F008
	100	±1%	4450	495-2164-ND	1.75	1.54	1.21	B57891S0104F008

EPCOS

Surface Mount NTC Thermistors

for Temperature Measurement

Features:
- Inner electrodes • Excellent long-term aging stability in high-temperature and high humidity environments
- Super resistance stability during soldering (change ≤1%)

Applications:
- Temperature measurement and compensation in mobile phone applications (battery pack, TCXO, LCD)
- Data systems • Automotive electronics

Specifications:
- Climatic category: 55/125/56 • Maximum power: 150mW (0402); 180mW (0603); 210mW (0805)
- Resistance Tolerance: ±5%

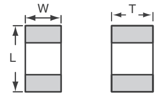

Size	Dimensions - mm L	W	T
0402	1.0	0.5	0.6
0603	1.6	0.8	0.9
0805	2.0	1.25	1.3

Size Code	Res. @ 25°C (Ω)	B25/85 (K)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel† Qty.	Pricing	Epcos Part No.
0402	10k	3980	495-2086-1-ND	.34	2.39	14.08	10,000	84.00/M	B57221V2103J60
	22k	4548	495-3041-1-ND	.27	1.91	11.25	10,000	68.00/M	B57261V2223J60
0603	220	3540	495-3072-1-ND	.44	3.14	18.45	4,000	118.00/M	B57311V2221J60
	220	3540	495-3073-1-ND‡	.37	2.61	15.33	4,000	98.00/M	B57311V2221K60
	10k	3980	495-2104-1-ND	.44	3.14	18.45	4,000	118.00/M	B57321V2103J60
0805	220	3540	495-3074-1-ND	.59	4.20	24.70	3,000	158.00/M	B57411V2221J62
	330	3540	495-3075-1-ND	.59	4.20	24.70	3,000	158.00/M	B57411V2331J62
	10k	3980	495-2116-1-ND	.59	4.20	24.70	4,000	158.00/M	B57421V2103J62

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Tolerance ±10%

NTC Thermistor Probes

B57020

Features:
- Thermistor in molded plastic case • PVC insulated white connecting cable, UL approval (E252167)

Applications:
- Cabinet and evaporator in refrigerators and deep freezers

Specifications:
- Climatic category: 40/80/56 • Maximum power: 350mW

B57500

Features:
- Epoxy resin encapsulation • PVC insulated black wire with tinned ends 26AWG

Applications:
- Air sensor for air conditioning (NOT FOR USE IN EVAPORATOR)

Specifications:
- Climatic category: 30/100/56 • Maximum power: 60mW • Test voltage: 1.25kVAC for 1 seconds

B57703

Features:
- High accuracy • Easy mounting • Good thermal coupling through metal tag • Encapsulated in metal tag case • PTFE insulated leads of silver-plated nickel wire, 30AWG • UL Approval (E69802)

Applications:
- Surface temperature measurement (housing and pipes)

Specifications:
- Climatic category: 55/125/56 • Maximum power: 150mW • Test voltage: 1kVAC

Dimensions in mm

Fig. 1

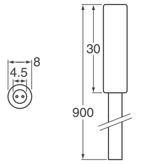

Fig. 2

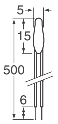

Fig. 3

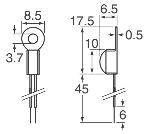

Fig.	Res. @ 25°C (kΩ)	B25/100 (K)	Resistance Tolerance	Digi-Key Part No.	Price Each 1	10	100	Epcos Part No.
1	5	3980	±2%	495-2075-ND	5.00	4.38	3.44	B57020M2502A017
2	10	3988	±3%	495-2172-ND	4.00	3.50	2.75	B57500M0103A005
3	5	3988	±2%	495-2170-ND	4.08	3.57	2.81	B57703M0502G040
	10	3988	±2%	495-2169-ND	4.08	3.57	2.81	B57703M0103G040

GE Sensing

NTC Bead Thermistors

THERMAL AND ELECTRICAL PROPERTIES: • **Dissipation Constant:** (Still Air) 1 mW°C, (Stirred Oil) 8 mW°C • **Thermal Time Constant:** (Still Air) 10 Seconds, (Stirred Oil) 1 Second • **Maximum Power Rating:** .075 Watts (Derated from 100% at 25°C ~ 0% at 100°C)

Thermometrics Type C100 Thermochips are low cost, epoxy coated chip thermistors which represent the highest level of thermistor technology. Thermometrics exclusive "state of the art" materials processing techniques have been proven through extensive field use and long term testing to provide stable, rugged, easy handling thermistors suitable for applications in the temperature range of -80°C ~ 150°C. Best stability is achieved at temperatures not exceeding 105°C.

Type EC95 and Type DC95 Thermistors may be used at temperatures as low as -80°C and as high as 150°C, however, best overall stability is achieved with exposure or storage temperatures lower than 105°C.

Type C100

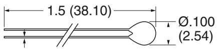

Ø.012 (0.30)-Tinned copper leads
Epoxy coated thermochip

Type DC95 Thermistors are designed to be interchangeable over 0°C ~ 70° and 0°C ~ 100°C.

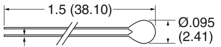

Ø.012 (0.30)-Tinned copper leads
Epoxy coated thermochip

Type EC95 Thermistors are designed to be interchangeable over -20°C ~ 50°C and 0°C ~ 70°C.

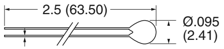

Ø.008 (0.20)-Tinned copper alloy leads
Epoxy coated thermochip

Res. @ 25°C (Ω)	Res. Ratio§	Digi Key Part No.	Price Each 1	10	100	250	GE Sensing Part No.
10k	9.06	235-1001-ND	6.45	5.08	4.03	2.99	C100F103G
10k	9.06	235-1002-ND	4.46	3.52	2.79	2.07	C100F103J
10k	7.60	235-1003-ND	4.46	3.52	2.79	2.07	C100Y103J
10k	9.06	235-1004-ND	7.16	5.64	4.48	3.31	DC95F103W
2k	9.06	235-1005-ND	7.16	5.64	4.48	3.31	DC95F202W
2252	9.06	235-1006-ND	7.16	5.64	4.48	3.31	DC95F232W
5k	9.06	235-1007-ND	7.16	5.64	4.48	3.31	DC95F502W
100k	10.45	235-1008-ND	7.16	5.64	4.48	3.31	DC95G104W
50k	10.45	235-1009-ND	7.16	5.64	4.48	3.31	DC95G503W
10k	9.06	235-1010-ND	7.16	5.64	4.48	3.31	EC95F103W
3k	9.06	235-1012-ND	7.16	5.64	4.48	3.31	EC95F302W
100k	10.45	235-1013-ND	6.65	5.24	4.16	3.08	EC95G104W
50k	10.45	235-1014-ND	7.16	5.64	4.48	3.31	EC95G503W
30k	8.69	235-1015-ND	6.82	5.37	4.26	3.16	EC95H303W

§ 0°C/50°C Ratio

NTC Disc Thermistors

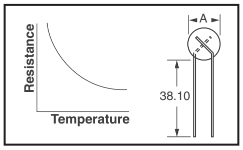

NTC (Negative Temperature Coefficient) Disc Thermistors decrease in resistance as temperature increases.

- **Temperature Coefficients Range:** -3.4%/°C ~ -5%/°C @ 25°C
- **Maximum Operating Temperature:** 150°C
- **Tolerance:** ±20% 100-5Ω; ±10% 1K ~ 100KΩ

Res. @ 25°C (Ω)	Res. Ratio ▲	D.C.◊	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	GE Sensing Part No.
100	5.53	2.5	2.79	KC001N-ND◆	2.66	2.40	1.89	1.50	RL1004-65.6-59-D1
50	5.53	6.5	5.59	KC012N-ND	1.94	1.75	1.38	1.10	RL2007-32.8-59-D1
25	5.53	6.5	5.59	KC011N-ND◆	1.94	1.75	1.38	1.10	RL2004-16.4-59-D1
5	5.53	10.0	12.19	KC024N-ND◆	2.21	1.99	1.57	1.25	RL4504-3.28-59-D1
1k	6.85	2.8	2.79	KC003N-ND◆	2.60	2.34	1.84	1.46	RL1007-624-73-D1
500	6.85	2.5	2.79	KC002N-ND◆	2.60	2.34	1.84	1.46	RL1003-312-73-D1
300	6.85	6.5	5.59	KC015N-ND◆	1.89	1.70	1.34	1.06	RL2008-187-73-D1
200	6.85	6.5	5.59	KC014N-ND◆	1.89	1.70	1.34	1.06	RL2006-125-73-D1
100	6.85	6.5	5.59	KC013N-ND◆	1.89	1.70	1.34	1.06	RL2003-62.4-73-D1
50	6.85	7.5	9.40	KC022N-ND	1.96	1.76	1.39	1.10	RL3504-31.2-73-D1
10k	9.60	2.5	2.79	KC025N-ND◆	2.60	2.34	1.84	1.46	RL1005-5744-103-D1
5k	9.10	2.5	2.79	KC005N-ND◆	2.60	2.34	1.84	1.46	RL1004-2910-97-D1
3k	9.10	2.5	2.79	KC004N-ND◆	2.60	2.34	1.84	1.46	RL1003-1746-97-D1
2k	9.10	6.5	5.59	KC017N-ND◆	1.90	1.71	1.35	1.07	RL2007-1164-97-D1
1k	9.10	6.5	5.59	KC016N-ND	1.90	1.71	1.35	1.07	RL2004-582-97-D1
10k	11.41	7.2	5.59	KC018N-ND◆	4.69	4.22	3.32	2.64	RL2012-5506-120-D1
100k	12.90	2.7	2.79	KC009N-ND	2.81	2.53	2.00	1.58	RL1006-53.4K-140-D1
50k	12.90	2.5	2.79	KC008N-ND◆	2.81	2.53	2.00	1.58	RL1003-26.7K-140-D1
25k	12.90	6.5	5.59	KC019N-ND	2.16	1.94	1.53	1.22	RL2006-13.3K-140-D1
200k	13.82	2.5	2.79	KC010N-ND	2.81	2.53	2.00	1.58	RL1004-104.7K-155-D1
100k	13.82	6.5	5.59	KC020N-ND◆	2.16	1.94	1.53	1.22	RL2008-52.3K-155-D1

◆ ***RoHS Compliant*** ▲ Resistance Ratio – ratio of zero power resistance @ 0°C to zero power resistance @ 50°C; AWG ◊ D.C. – Dissipation Constant (MW/°C)

GE Sensing NTC Thermistors

MA100 Series

These biomedical thermistor chips and subassemblies are designed to be interchangeable over a 0°C ~ 50°C range (see table). Best overall stability is maintained when exposure and storage temperatures remain below 70°C.

Temperature Range	Tolerance Code (±°C) 235-1060/ 235-1064-ND	235-1061/ 235-1065-ND	235-1062/ 235-1063-ND
0°C ~ 20°C	±.15	±.2	±.25
20°C ~ 35°C	±.1	±.15	±.2
35°C ~ 39°C	±.05	±.1	±.15
39°C ~ 42°C	±.075	±.15	±.2
42°C ~ 45°C	±.1	±.15	±.2
45°C ~ 50°C	±.15	±.2	±.25

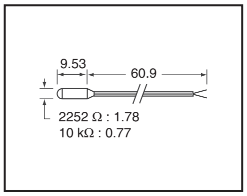

Resistance @ 25°C (Ω)	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
10k	235-1060-ND	9.85	7.76	6.16	MA100GG103A
10k	235-1064-ND	11.58	9.12	7.24	MA100BF103A
10k	235-1061-ND	8.28	6.53	5.18	MA100GG103B
10k	235-1065-ND	8.28	6.53	5.18	MA100BF103B
10k	235-1062-ND	7.47	5.89	4.67	MA100GG103C
2252	235-1063-ND◆	6.35	5.01	3.97	MA100GG232C

◆ ***RoHS Compliant***

MC65 Series

These thermistors are epoxy-coated for stability and have a maximum diameter of .065" (1.65mm). Standard leads are 3" (76.20mm) of 38 gauge, nickel alloy, bifilar, heavy isomid insulated wire. Each unit tracks a specified curve over the temperature range of 0°C ~ 50°C (see table).

Temperature Range	Tolerance Code (±°C) 235-1057-ND	235-1058-ND	235-1059-ND
0°C ~ 20°C	±.15	±.2	±.25
20°C ~ 35°C	±.1	±.15	±.2
35°C ~ 39°C	±.05	±.1	±.15
39°C ~ 42°C	±.075	±.15	±.2
42°C ~ 45°C	±.1	±.15	±.2
45°C ~ 50°C	±.15	±.2	±.25

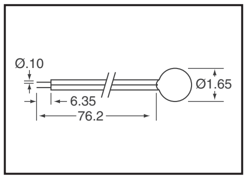

Resistance @ 25°C (Ωk)	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
10	235-1057-ND	9.58	7.55	5.99	MC65F103A
10	235-1058-ND	6.82	5.38	4.27	MC65F103B
10	235-1059-ND	7.20	5.68	4.51	MC65F103C

NHQ Series SMT Chip 1206

These devices are ceramic chip thermistors with a negative temperature coefficient of resistance intended for surface mount applications. The electrode material is palladium silver, nickel-plated with a solder-plated covering. The ceramic between the electrodes is glass covered.

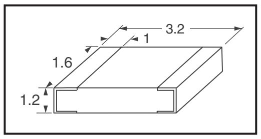

Resistance @ 25°C (kΩ)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Pricing 3,000	GE Sensing Part No.
3	235-1108-1-ND	2.64	2.31	1.82	990.00/M	NHQ302B410T10
10	235-1109-1-ND◆	2.86	2.50	1.97	1071.00/M	NHQ103B375T10
15	235-1110-1-ND	2.64	2.31	1.82	990.00/M	NHQ153B400T10
50	235-1111-1-ND◆	2.64	2.31	1.82	990.00/M	NHQ503B400T10
100	235-1112-1-ND	2.64	2.31	1.82	990.00/M	NHQ104B425T10
150	235-1113-1-ND	2.64	2.31	1.82	990.00/M	NHQ154B425T10
500	235-1114-1-ND◆	3.15	2.76	2.17	1182.00/M	NHQ504B435T10

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND.

NHQM Series SMT Chip 0805

These devices are ceramic chip thermistors with a negative temperature coefficient of resistance intended for surface mount applications. The electrode material is palladium silver, nickel-plated with solder-plated covering. The ceramic between the electrodes is glass covered.

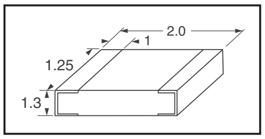

Resistance @ 25°C (kΩ)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Pricing 3,000	GE Sensing Part No.
3	235-1115-1-ND	2.47	2.16	1.70	925.50/M	NHQM302B410T10
10	235-1116-1-ND◆	2.47	2.16	1.70	925.50/M	NHQM103B375T10
15	235-1117-1-ND	2.47	2.16	1.70	925.50/M	NHQM153B400T10
50	235-1118-1-ND	2.47	2.16	1.70	925.50/M	NHQM503B415T10
100	235-1119-1-ND◆	2.47	2.16	1.70	925.50/M	NHQM104B425T10

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND.

DK Series

The DK range of DO-35 packaged NTC thermistors is designed for temperature measurement and control in applications which demand cost effective reliability. The hermetically-sealed construction combines the advantages of high temperature operation and high reliability of glass bead types with the closer tolerances associated with chip devices. The glass encapsulation offers the additional benefit of high voltage insulation.

APPLICATIONS:

- Domestic Appliances
- Automotive Systems
- Data Processing Equipment
- Heating/Ventilating/Air Conditioning Control

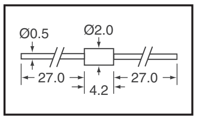

Resistance @ 25°C (kΩ)	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
5	235-1103-ND	4.44	3.82	2.63	DKA502N5
10	235-1104-ND	4.44	3.82	2.63	DKF103N5
20	235-1105-ND	4.44	3.82	2.63	DKF203N5
30	235-1106-ND	4.44	3.82	2.63	DKF303N5
50	235-1107-ND	4.44	3.82	2.63	DKF503N5

Standard Thermistors for Temperature Measurement Accuracy ±1°C (0°C ~ 120°C)

- **Operating Range:** -50°C ~ 150°C
- **D.C.:** Dissipation Constant (mW/°C)
- **T.C.:** Time Constant (Seconds)

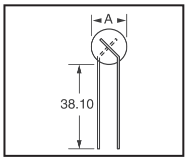

Res. @ 25°C (Ω)	A Max. (mm)	D.C. mW/°C	T.C. Sec.	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
1000	8.13	3.5	30	KC001E-ND	2.67	2.41	1.90	RL3005-574.0-103-SA
2000	5.59	2.5	20	KC002E-ND	2.57	2.32	1.83	RL2005-1148-103-SA
2786	5.59	2.5	20	KC003E-ND	2.57	2.32	1.83	RL2006-1600-103-SA
3000	5.59	2.5	20	KC004E-ND	2.57	2.32	1.83	RL2007-1723-103-SA
5000	2.79	1.0	10	KC005E-ND	3.32	2.98	2.35	RL1003-2871-103-SA
10000	2.79	1.0	10	KC006E-ND	3.32	2.98	2.35	RL1005-5744-103-SA

Miniature Sensors 1°C Accuracy

SPECIFICATIONS:
- Temperature Accuracy: ±1°C @ 25°C
- Dissipation Constant: 1.4 mW/°C
- Time Constant: 15 seconds
- Operating Range: -50°C ~ 150°C

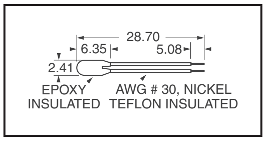

Res. @ 25°C (Ω)	Temperature Coef. %/°C @ 25°C	Material	Digi-Key Part No.	Price Each 1	10	100	250	GE Sensing Part No.
2K	-3.83	MS73	KC001T-ND	3.11	2.80	2.20	1.75	RL0503-1248-73-MS
5K	-4.43	MS95	KC002T-ND	3.11	2.80	2.20	1.75	RL0503-2890-95-MS
10K	-4.40	MS97	KC003T-ND	3.11	2.80	2.20	1.75	RL0503-5820-97-MS
30K	-4.32	MS96	KC004T-ND	3.11	2.80	2.20	1.75	RL0503-17.56K-96-MS
50K	-4.84	MS120	KC005T-ND	3.11	2.80	2.20	1.75	RL0503-27.53K-120-MS
100K	-4.78	MS122	KC006T-ND	3.11	2.80	2.20	1.75	RL0503-55.36K-122-MS

Glass Encapsulated NTC Thermistors

Glass encapsulated NTC thermistors are tiny pellets of thermistor material thermetically sealed in glass bodies with a controlled amount of selected atmosphere. The thermetic seal makes these parts extremely stable in applications up to 204°C (400°F)

SPECIFICATIONS:
- Temperature Range: -50°C ~ 204°C
- Dissipation Constant: 3.0mW/°C
- Time Constant: 7 seconds

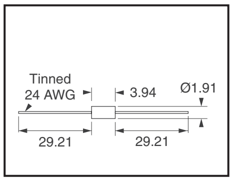

Ro @ 25°C	Temp. Coef. %/°C @ 25°C	Material	Digi-Key Part No.	Price Each 1	10	100	250	GE Sensing Part No.
250	-3.34	GE55‡	KC001G-ND	2.63	2.37	1.87	1.48	AL03006-165.9-55-G1
500	-3.34	GE55‡	KC002G-ND	2.63	2.37	1.87	1.48	AL03006-331.8-55-G1
1K	-3.83	GE73	KC003G-ND	2.63	2.37	1.87	1.48	AL03006-624-73-G1
2K	-3.83	GE73	KC004G-ND	2.63	2.37	1.87	1.48	AL03006-1248-73-G1
2786	-4.68	GE101	KC005G-ND	2.63	2.37	1.87	1.48	AL03006-1576-101-G1
3K	-3.85	GE76	KC006G-ND	2.63	2.37	1.87	1.48	AL03006-1847-76-G1
4K	-3.85	GE76	KC007G-ND	2.63	2.37	1.87	1.48	AL03006-2463-76-G1
5K	-3.85	GE76	KC008G-ND	2.63	2.37	1.87	1.48	AL03006-3079-76-G1
10K	-4.41	GE97A	KC009G-ND	2.63	2.37	1.87	1.48	AL03006-5818-97-G1
20K	-4.34	GE98	KC010G-ND	2.63	2.37	1.87	1.48	AL03006-11.7K-98-G1
30K	-4.34	GE98	KC011G-ND	2.63	2.37	1.87	1.48	AL03006-17.53K-98-G1
50K	-4.32	GE97B	KC012G-ND	2.63	2.37	1.87	1.48	AL03006-29.1K-97-G1
100K	-4.32	GE97B	KC013G-ND	2.63	2.37	1.87	1.48	AL03006-58.2K-97-G1
200K	-4.71	GE123	KC014G-ND	2.63	2.37	1.87	1.48	AL03006-111.3K-123-G1
500K	-4.99	GE138	KC015G-ND	2.63	2.37	1.87	1.48	AL03006-269.8K-138-G1
1M	-5.07	GE145	KC016G-ND	2.63	2.37	1.87	1.48	AL03006-535K-145-G1

‡ Maximum Operating Temperature: 150°C

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Panasonic

Multilayer Chip NTC Thermistors (ERTJ)

RoHS COMPLIANT

Digi-Reel®

The Multilayer Chip NTC Thermistors are especially designed for surface mountings featuring the miniature sizes of "0201", "0402" and "0603" type (EIA) with highly reliable multilayer and monolithic structure. **FEATURES:** • Highly reliable multilayer/monolithic structure • Superior heat resistance to reflow soldering and excellent solderability thanks to the unique external electrodes of three metallic layers • Operating Temperature Range: -40°C ~ 125°C • Resistance to Soldering Heat: 270°C-3s, 260°C-10s • Heat Dissipation Constant (mounted on a glass epoxy,1.6t): **0201 Series:** approximately 1mw/°C, **0402 Series:** approximately 2mw/°C and **0603 Series:** approximately 3mw/°C • Rated Maximum Power Dissipation: **0201 Series:** 33 mW, **0402 Series:** 66 mW and **0603 Series:** 100 mW

SMT

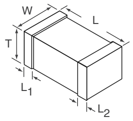

Size Code (EIA)	Dimensions (mm) L	W	T	L1 L2
0201	0.60	0.30	0.30	0.15
0402	1.00	0.50	0.50	0.25
0603	1.60	0.80	0.80	0.30

Zero-Power Resist. (at 25°C)	Resistance Tol.	B Value		Digi-Key	Cut Tape Pricing			Tape & Reel†		Panasonic
		B25/50	B25/85	Part No.	1	10	100	Qty.	Pricing	Part No.
				0201						
2KΩ	±5%	4500K ±2%	(4450K)	P12020CT-ND	.31	2.35	17.62	15,000	98.00/M	ERT-JZET202J
3KΩ	±5%	4500K ±2%	(4450K)	P12021CT-ND	.31	2.35	17.62	15,000	98.00/M	ERT-JZET302J
4.7KΩ	±5%	4500K ±2%	—	P12805CT-ND	.13	.98	7.36	15,000	41.00/M	ERT-JZET472J
10KΩ	±5%	—	3435K ±2%	P12358CT-ND	.12	1.07	8.39	15,000	41.00/M	ERT-JZEG103JA
47KΩ	±5%	4050K ±3%	—	P12359CT-ND	.12	1.07	8.39	15,000	41.00/M	ERT-JZEP473J
100KΩ	±3%	4500K ±3%	(4750K)	P13700CT-ND	.40	2.65	17.14	15,000	67.00/M	ERT-JZEV104H
100KΩ	±5%	4700K ±2%	—	P12360CT-ND	.12	1.07	8.39	15,000	41.00/M	ERT-JZEV104J
				0402						
22Ω	±5%	2750K ±3%	(2700K)	P10557CT-ND	.36	2.42	15.67	10,000	61.00/M	ERT-J0EA220J
33Ω	±5%	2750K ±3%	(2700K)	P10558CT-ND	.36	2.42	15.67	10,000	61.00/M	ERT-J0EA330J
40Ω	±5%	2750K ±3%	(2700K)	P10559CT-ND	.36	2.42	15.67	10,000	61.00/M	ERT-J0EA400J
47Ω	±5%	2750K ±3%	(2700K)	P10560CT-ND	.36	2.42	15.67	10,000	61.00/M	ERT-J0EA470J
68Ω	±5%	2800K ±3%	(2700K)	P10561CT-ND	.36	2.42	15.67	10,000	61.00/M	ERT-J0EA680J
100Ω	±5%	2800K ±3%	(2750K)	P10562CT-ND	.36	2.42	15.67	10,000	61.00/M	ERT-J0EA101J
150Ω	±5%	2800K ±3%	(2750K)	P10563CT-ND	.36	2.42	15.67	10,000	61.00/M	ERT-J0EA151J
1.0KΩ	±5%	4500K ±3%	(4450K)	P10564CT-ND	.32	2.12	13.70	10,000	54.00/M	ERT-J0ET102J
1.5KΩ	±5%	4500K ±3%	(4450K)	P10565CT-ND	.32	2.12	13.70	10,000	54.00/M	ERT-J0ET152J
2.0KΩ	±5%	4500K ±3%	(4450K)	P10566CT-ND	.32	2.12	13.70	10,000	54.00/M	ERT-J0ET202J
2.2KΩ	±5%	4500K ±3%	(4450K)	P10567CT-ND	.32	2.12	13.70	10,000	54.00/M	ERT-J0ET222J
3.0KΩ	±5%	4500K ±3%	(4450K)	P10568CT-ND	.32	2.12	13.70	10,000	54.00/M	ERT-J0ET302J
3.3KΩ	±5%	4500K ±3%	(4450K)	P10569CT-ND	.32	2.12	13.70	10,000	54.00/M	ERT-J0ET332J
4.7KΩ	±5%	4500K ±3%	(4450K)	P10570CT-ND	.32	2.12	13.70	10,000	54.00/M	ERT-J0ET472J
3.3KΩ	±5%	4250K ±3%	(4300K)	P10571CT-ND	.32	2.12	13.70	10,000	54.00/M	ERT-J0ER332J
4.7KΩ	±5%	4250K ±3%	(4300K)	P10572CT-ND	.32	2.12	13.70	10,000	54.00/M	ERT-J0ER472J
6.8KΩ	±5%	4250K ±3%	(4300K)	P10573CT-ND	.32	2.12	13.70	10,000	54.00/M	ERT-J0ER682J
10KΩ	±5%	4250K ±3%	(4300K)	P10574CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0ER103J
10KΩ	±1%	(3375K)	3435K ±1%	P12007CT-ND	.62	4.25	28.52	10,000	135.00/M	ERT-J0EG103FA
10KΩ	±2%	(3375K)	3435K ±1%	P12008CT-ND	.52	3.54	23.76	10,000	112.00/M	ERT-J0EG103GA
10KΩ	±3%	3900K ±2%	(3970K)	P13701CT-ND	.45	3.02	19.58	10,000	77.00/M	ERT-J0EM103H
10KΩ	±3%	4250K ±2%	(4300K)	P13702CT-ND	.45	3.02	19.58	10,000	77.00/M	ERT-J0ER103H
10KΩ	±3%	(3375K)	3435K ±1%	P12009CT-ND	.43	2.95	19.80	10,000	94.00/M	ERT-J0EG103HA
10KΩ	±5%	(3375K)	3435K ±1%	P12010CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0EG103JA
10KΩ	±5%	3900K ±2%	—	P12985CT-ND	.13	1.11	8.72	10,000	43.00/M	ERT-J0EM103J
15KΩ	±5%	4250K ±3%	(4300K)	P10575CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0ER153J
22KΩ	±5%	4250K ±3%	(4300K)	P10576CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0ER223J
33KΩ	±5%	4050K ±2%	—	P13579CT-ND	.42	3.66	28.77	10,000	141.00/M	ERT-J0EP333J
33KΩ	±5%	4250K ±3%	(4300K)	P10577CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0ER333J
47KΩ	±5%	4700K ±3%	(4750K)	P10578CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0EV473J
68KΩ	±5%	4700K ±3%	(4750K)	P10579CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0EV683J
47KΩ	±5%	4050K ±2%	(4100K)	P11441CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0EP473J
100KΩ	±2%	4700K ±2%	(4750K)	P13705CT-ND	.48	3.25	21.78	10,000	103.00/M	ERT-J0EV104G
100KΩ	±3%	4500K ±2%	(4580K)	P13704CT-ND	.45	3.02	19.58	10,000	77.00/M	ERT-J0ET104H
100KΩ	±3%	4700K ±2%	(4750K)	P13706CT-ND	.45	3.02	19.58	10,000	77.00/M	ERT-J0EV104H
100KΩ	±5%	4250K ±2%	(4300K)	P13703CT-ND	.43	2.94	19.72	10,000	95.00/M	ERT-J0ER104J
100KΩ	±5%	4330K ±2%	—	P13580CT-ND	.42	3.66	28.77	10,000	141.00/M	ERT-J0ES104J
100KΩ	±5%	4500K ±2%	—	P12986CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0ET104J
100KΩ	±5%	4700K ±2%	(4750K)	P11442CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0EV104J
150KΩ	±5%	4500K ±2%	—	P13581CT-ND	.42	3.66	28.77	10,000	141.00/M	ERT-J0ET154J
150KΩ	±5%	4700K ±2%	(4750K)	P11443CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0EV154J
220KΩ	±5%	4700K ±2%	(4750K)	P11444CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0EV224J
330KΩ	±5%	4700K ±2%	(4750K)	P11445CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0EV334J
470KΩ	±5%	4700K ±2%	(4750K)	P11446CT-ND	.34	2.27	14.69	10,000	57.00/M	ERT-J0EV474J
				0603						
22Ω	±5%	2750K ±3%	(2700K)	P10531CT-ND	.51	3.40	22.03	4,000	94.00/M	ERT-J1VA220J
33Ω	±5%	2750K ±3%	(2700K)	P10532CT-ND	.51	3.40	22.03	4,000	94.00/M	ERT-J1VA330J
40Ω	±5%	2800K ±3%	(2750K)	P10533CT-ND	.51	3.40	22.03	4,000	94.00/M	ERT-J1VA400J
47Ω	±5%	2800K ±3%	(2750K)	P10534CT-ND	.51	3.40	22.03	4,000	94.00/M	ERT-J1VA470J
68Ω	±5%	2800K ±3%	(2750K)	P10535CT-ND	.51	3.40	22.03	4,000	94.00/M	ERT-J1VA680J
100Ω	±5%	2800K ±3%	(2750K)	P10536CT-ND	.51	3.40	22.03	4,000	94.00/M	ERT-J1VA101J
1.0KΩ	±5%	4500K ±3%	(4450K)	P10537CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VT102J
1.5KΩ	±5%	4500K ±3%	(4450K)	P10538CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VT152J
2.0KΩ	±5%	4500K ±3%	(4450K)	P10539CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VT202J
2.2KΩ	±5%	4500K ±3%	(4450K)	P10540CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VT222J
3.0KΩ	±5%	4500K ±3%	(4450K)	P10541CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VT302J
3.3KΩ	±5%	4250K ±3%	(4300K)	P10544CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VR332J
3.3KΩ	±5%	4500K ±3%	(4450K)	P10542CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VT332J
4.7KΩ	±5%	4500K ±3%	(4450K)	P10543CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VT472J
4.7KΩ	±5%	4250K ±3%	(4300K)	P10545CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VR472J
6.8KΩ	±5%	4250K ±3%	(4300K)	P10546CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VR682J
10KΩ	±1%	(3375K)	3435K ±1%	P12011CT-ND	.59	4.01	26.87	4,000	130.00/M	ERT-J1VG103FA
10KΩ	±2%	(3375K)	3435K ±1%	P12012CT-ND	.54	3.70	24.83	4,000	120.00/M	ERT-J1VG103GA
10KΩ	±3%	(3375K)	3435K ±1%	P12013CT-ND	.43	2.95	19.80	4,000	96.00/M	ERT-J1VG103HA
10KΩ	±3%	4250K ±2%	(4300K)	P13707CT-ND	.54	3.63	23.49	4,000	118.00/M	ERT-J1VR103H
10KΩ	±5%	(3375K)	3435K ±1%	P12014CT-ND	.28	2.05	14.68	4,000	76.00/M	ERT-J1VG103JA
10KΩ	±5%	4250K ±3%	(4300K)	P10547CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VR103J
15KΩ	±5%	4250K ±3%	(4300K)	P10548CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VR153J
22KΩ	±5%	4250K ±3%	(4300K)	P10549CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VR223J
33KΩ	±5%	4250K ±3%	(4300K)	P10550CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VR333J
47KΩ	±5%	4250K ±3%	(4300K)	P10551CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VR473J
47KΩ	±5%	4050K ±2%	(4100K)	P12015CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VP473J
47KΩ	±5%	4700K ±3%	(4750K)	P10553CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VV473J
68KΩ	±5%	4250K ±3%	(4300K)	P10552CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VR683J
68KΩ	±5%	4700K ±3%	(4750K)	P10554CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VV683J
100KΩ	±1%	(4330K)	4390K ±1%	P12016CT-ND	.68	4.67	31.32	4,000	151.00/M	ERT-J1VS104FA
100KΩ	±2%	(4330K)	4390K ±1%	P12017CT-ND	.63	4.32	28.96	4,000	140.00/M	ERT-J1VS104GA
100KΩ	±3%	(4330K)	4390K ±1%	P12018CT-ND	.43	2.95	19.80	4,000	96.00/M	ERT-J1VS104HA
100KΩ	±5%	(4330K)	4390K ±1%	P12019CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VS104JA
100KΩ	±5%	4700K ±3%	(4750K)	P10555CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VV104J
150KΩ	±5%	4700K ±3%	(4750K)	P10556CT-ND	.45	3.02	19.58	4,000	84.00/M	ERT-J1VV154J

† For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic

NTC Thermistors

1 and 2: Significant digit; 3: Multiplier

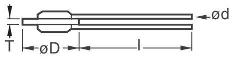

Uses standard resistance color codes.

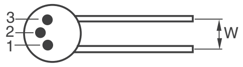

FEATURES:

- Resistance temperature coefficient is negative and extremely large
- Wide selection of temperature coefficient (constant B)
- Excellent electrical and thermal stability
- Color coded to indicate resistance value @ 25°C

SPECIFICATIONS:

Maximum Watt Rating: (W): PNT100-123 – 0.4; PNT124-138 – 0.6. Nominal Time Constant (second): PNT100-123 – 20; PNT124-138 – 27.

APPLICATIONS:

- For measuring equipment: thermometer, wind gauge, liquid level gauge, temperature controller
- For temperature compensation: transistor circuit, measuring equipment
- For driving: Delay setting in relay operation, inrush current surge protection, communication equipment, AGC, time lag

F Type Dimensions (mm)	øD	T	l	W	ød
PNT100 ~ PNT123 (D2)	5.0 ± 0.5	1.3 ± 0.5	30 min.	2.5 ± 1	0.4
PNT124 ~ PNT138 (D3)	7.5 ± 0.5	1.4 ± 0.5	30 min.	5 ± 1	0.5

Res. at 25°C (Ω)	Temp. Coef. (25°C) %/°C	Res. Ratio R_{25}/R_{50}	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
40	-3.9	2.48	PNT101-ND◆	1.06	.91	.61	.38	ERT-D2FFL400S
75	-4.2	2.62	PNT102-ND	1.06	.91	.61	.38	ERT-D2FGL750S
100	-3.9	2.48	PNT104-ND◆	1.06	.91	.61	.38	ERT-D2FFL101S
100	-4.2	2.62	PNT105-ND◆	1.06	.91	.61	.38	ERT-D2FGL101S
250	-3.9	2.48	PNT107-ND◆	1.06	.91	.61	.38	ERT-D2FFL251S
250	-4.2	2.62	PNT108-ND◆	1.06	.91	.61	.38	ERT-D2FGL251S
300	-4.2	2.62	PNT109-ND	1.06	.91	.61	.38	ERT-D2FGL301S
350	-3.9	2.48	PNT110-ND	1.06	.91	.61	.38	ERT-D2FFL351S
800	-4.4	2.76	PNT112-ND◆	1.06	.91	.61	.38	ERT-D2FGL801S
1,000	-4.1	2.55	PNT113-ND◆	1.06	.91	.61	.38	ERT-D2FGL102S
1,400	-4.4	2.76	PNT114-ND◆	1.06	.91	.61	.38	ERT-D2FGL142S
2,000	-4.5	2.83	PNT115-ND◆	1.06	.91	.61	.38	ERT-D2FGL202S
3,300	-4.5	2.83	PNT116-ND◆	1.06	.91	.61	.38	ERT-D2FGL332S
8,000	-4.6	2.90	PNT118-ND◆	1.06	.91	.61	.38	ERT-D2FHL802S
10,000	-4.6	2.90	PNT119-ND◆	1.06	.91	.61	.38	ERT-D2FHL103S
15,000	-4.7	2.98	PNT120-ND◆	1.06	.91	.61	.38	ERT-D2FHL153S
33,000	-5.1	3.22	PNT121-ND◆	1.06	.91	.61	.38	ERT-D2FHL333S
150,000	-5.4	3.48	PNT123-ND◆	1.02	.88	.59	.37	ERT-D2F1L154S
13	-3.6	2.30	PNT125-ND	1.63	1.40	.93	.59	ERT-D3FFL130S
16	-3.6	2.30	PNT126-ND◆	1.63	1.40	.93	.59	ERT-D3FFL160S
20	-3.6	2.30	PNT127-ND	1.63	1.40	.93	.59	ERT-D3FFL200S
30	-3.7	2.30	PNT128-ND	1.63	1.40	.93	.59	ERT-D3FFL300S
40	-3.2	2.30	PNT130-ND	1.63	1.40	.93	.59	ERT-D3FFL400S
75	-4.2	2.62	PNT131-ND	1.63	1.40	.93	.59	ERT-D3FGL750S
80	-4.2	2.62	PNT132-ND	1.63	1.40	.93	.59	ERT-D3FGL800S
130	-4.5	2.62	PNT134-ND	1.63	1.40	.93	.59	ERT-D3FGL131S
500	-4.6	2.83	PNT135-ND	1.63	1.40	.93	.59	ERT-D3FGL501S
4,000	-4.6	2.90	PNT136-ND	1.63	1.40	.93	.59	ERT-D3FHL402S
20,000	-5.1	3.22	PNT137-ND	1.63	1.40	.93	.59	ERT-D3FHL203S
80,000	-5.6	3.70	PNT138-ND◆	1.63	1.40	.93	.59	ERT-D3FIL803S

◆ ***RoHS Compliant***

NVE
NVE CORPORATION

GT Sensors for Gear Tooth Applications

NVE's GT Sensor products are designed for industrial speed sensing where magnetic detection of gear teeth and magnetic encoder wheels with large air gaps are required. GT Sensors with both analog and digital outputs are available. All parts operate down to zero speed. The analog parts feature varied spacing of the sensor elements on the IC to provide usable output signals for even the smallest gear teeth. Single bridges provide speed information, and dual bridges provide speed and direction. The digital sensors take advantage of the GMR sensor element's superior magnetic performance to provide a 50% duty cycle output over variations in voltage and temperature. **Features:** • Input Voltage Range: Maximum: 30V • Operating Frequency: Minimum: DC, Maximum: 1MHz • Temperature Range: -50°C ~ 150°C • Maximum Output: Nominal: 80mV/V • Resistance: 5K typical

Single or Dual Bridge	Element Spacing (mm)	Output	Digi-Key Part No.	Price Each 1	10	25	NVE Part No.
Single	1	Analog	391-1033-5-ND†	3.39	2.55	2.26	ABL004-00
Single	1	Analog	391-1055-5-ND◆†	4.11	3.09	2.74	ABL004-00E
Single	0.5	Analog	391-1056-5-ND◆†	4.11	3.09	2.74	ABL005-00E
Dual	1	Analog	391-1057-5-ND◆†	4.95	3.72	3.30	ABL014-00E
Dual	0.5	Analog	391-1058-5-ND◆†	4.95	3.72	3.30	ABL015-00E
Single	1	Digital	391-1064-1-ND◆‡▲	6.13	5.25	4.38	AKL001-12E
Single	1	Digital	391-1064-2-ND◆‡§	6562.50/2,500			AKL001-12E

◆ ***RoHS Compliant*** † 8-MSOP ‡ TDFN8-SO8 § Tape and Reel ▲ Cut Tape

AFL Series - Low Power Digital Switch Parts

Featuring low magnetic field operate points and very low power consumption, the AFL series digital switch sensors are the first high precision digital magnetic sensors suitable for continuous operation in battery powered applications. Precise magnetic operate points of 10 Gauss are maintained, along with operating voltages down to 0.9V. Current sinking and current sourcing outputs are available.

Features:
• Operating Point: 10 Gauss ±3 Gauss • Operating Frequency: Minimum: DC, Maximum 100kHz • Minimum Operate/Release Point: Differential 2 Gauss • Maximum Output: 100μA

Volt.	Operating Temp. Range	Output	Bridge	Digi-Key Part No.	Price Each 1	10	25	NVE Part No.
				Digital Switches				
1.3	-20°C ~ 85°C	Xistor	Single	391-1039-5-ND◆◊	9.72	7.29	6.48	AFL000-00E

◆ ***RoHS Compliant*** ◊ 8-MSOP

GMR Digital Magnetic Sensors

Features: Absolute Maximum Ratings: Parameters: • Supply Voltage: 33V • Reverse Battery Voltage: -33V • Continuous Output Current: 24mA • Operating Temperature Range: -40°C ~ -125°C • Magnetic Field: Unlimited Oersteds

Sensitivity	Direction of Sensitivity	Output Type	Package	Digi-Key Part No.	Price Each 1	10	25	NVE Part No.
20 Gauss	Cross Axis	Source and Sink	8-TSSOP	391-1013-ND	3.81	2.86	2.54	AD221-00

GMR Analog Magnetic Field Sensors

NVE's Giant Magnetoresistive Field Sensors offer unique and unparalleled magnetic sensing capabilities. The high sensitivity and ability to sense static magnetic fields provide superior performance which sets them apart from other sensors on the market today. NVE's sensors provide high sensitivity, temperature stability, low power consumption, and small size.

Features:
• Input Voltage Range: Maximum: ±25V • Operating Frequency: Minimum: DC, Maximum: ±1MHz • Temperature Range: -50°C ~ 125°C • Maximum Output: Nominal: 45mV/V • Resistance: 5K typical, 30K typical for AA006, 2K typical for AAH

Saturation Field (Oe)	Specified Linear Range Oe Min.	Max.	Sensitivity (mV/V/Oe) Min.	Max.	Digi-Key Part No.	Price Each 1	10	25	NVE Part No.
15	1.5	10.5	3	4.2	391-1045-5-ND◆‡	14.58	10.94	9.72	AA002-02E
20	2	14	2	3.2	391-1048-5-ND◆‡	8.34	6.26	5.56	AA003-02E
50	5	35	0.9	1.3	391-1049-5-ND◆◊	8.10	6.08	5.40	AA004-00E
50	5	35	0.9	1.3	391-1001-ND‡	8.10	6.08	5.40	AA004-02
50	5	35	0.9	1.3	391-1050-5-ND◆‡	8.10	6.08	5.40	AA004-02E
100	10	70	0.45	0.65	391-1002-ND‡	8.10	6.08	5.40	AA005-02
100	10	70	0.45	0.65	391-1052-5-ND◆‡	8.10	6.08	5.40	AA005-02E
50	5	35	0.9	1.3	391-1054-5-ND◆‡	13.71	10.29	9.14	AA006-02E
6	0.6	3.0	11	18	391-1046-5-ND◆‡	14.58	10.94	9.72	AAH002-02E
15	1.5	7.5	3.2	4.8	391-1051-5-ND◆◊	8.10	6.08	5.40	AAH004-00E
15	1.5	10.5	3	4.2	391-1047-5-ND◆‡	14.58	10.94	9.72	AAL002-02E

◆ ***RoHS Compliant*** ‡ 8-SOIC ◊ 8-MSOP

GMR Sensor Evaluation Kits

AG001-01: This kit features several types of NVE's AA and AB Series parts, a selection of permanent magnets for activation or bias purposes, and circuit boards to mount the parts for testing purposes. Also included is a copy of NVE's catalog and applications notes on CD ROM.

AG003-01: Facilitates laboratory experimentation and development using GMR current sensors. The kit consists of (4) NVE current sensors (PN AA003-02) assembled to printed circuit board (PN AG002-01). The PCB has (4) trace geometries to simulate various PCB current sensor configurations.

AG910-07: Includes over 15 different GMR switch digital magnetic sensors with different operating points and different output configurations (current sink and current source). Magnets, circuit boards, a ZIF socket for easy testing, and NVE's catalog and application notes on CD ROM are included.

AG911-07: Same as AG910-07, but does not include the ZIF socket.

AG920-07: Kit includes analog and digital versions of the GT Sensor products, for gear tooth sensing applications. A large variety of circuit boards and magnets are included for bench testing purposes, along with NVE's catalog and application notes on CD ROM.

Description	Digi-Key Part No.	Price	NVE Part No.
Analog Sensor Evaluation Kit	391-1059-ND◆	120.00/1	AG001-01E
Current Sensor Evaluation Kit	391-1060-ND◆	86.00/1	AG003-01E
GMR Switch Evaluation Kit	391-1044-ND	180.00/1	AG910-07
GMR Switch Evaluation Kit	391-1061-ND◆	180.00/1	AG910-07E
GMR Switch Evaluation Kit (no ZIF socket)	391-1062-ND◆	130.00/1	AG911-07E
GT Sensor Evaluation Kit	391-1063-ND◆	130.00/1	AG920-07E

◆ ***RoHS Compliant***

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cynergy3 components

Float Sensors

Dim. in Inch (mm)

Liquid level sensors are cost effective sensors for detecting the presence or absence of liquids. Perfect for vending machines, commercial washing machines, evaporator units and any upper and lower liquid level sensing applications. Horizontal sensors can be turned 180 degrees for opposite detection.
UL approved E171218.

RoHS COMPLIANT Pb

Fig. 1

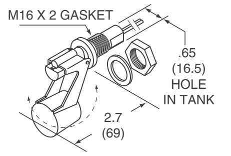

Heavy Liquids

Fig. 2

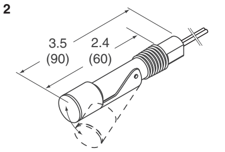

½" NPT - Quick Mount Shown

Fig. 3

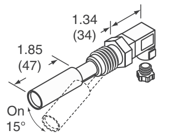

½" NPT - Stainless Steel

Fig. 4

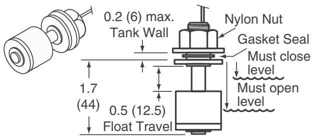

Top or Bottom Mount

Fig. 5

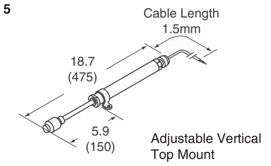

Adjustable Vertical Top Mount

Fig. 6

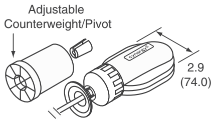

Tank Level Sensor

Fig.	Description	Material	Contact Rating	Digi-Key Part No.	Price Each 1	10	50	Cynergy3 Part No.
	Horizontal Mount Sensors							
1	Heavy Liquid Sensor, SPST, Standard Temperature	Black Nylon	0.6A	725-1002-ND	12.50	11.90	11.30	RSF43Y100RF
	Heavy Liquid Sensor, SPST, High Temperature	Opaque Poly	0.6A	725-1003-ND	13.23	12.60	11.96	RSF44Y100RF
	Heavy Liquid Sensor, SPST, Industrial Temperature	Grey PPS	0.6A	725-1004-ND	15.03	14.31	13.59	RSF46Y100RF
2	External Compression Seal Sensor, SPST, Standard Temperature	Black Nylon	0.6A	725-1005-ND	13.06	12.44	11.81	RSF73Y100RN
	External Compression Seal Sensor, SPST, High Temperature	Opaque Poly	0.6A	725-1006-ND	13.83	13.17	12.51	RSF74Y100RN
	External Compression Seal Sensor, SPST, Industrial Temperature	Grey PPS	0.6A	725-1007-ND	15.74	14.98	14.23	RSF76Y100RN
	External Mount Sensor, SPST, Standard Temperature	Black Nylon	0.6A	725-1008-ND	11.36	10.82	10.27	RSF83Y100R
	External Mount Sensor, SPST, High Temperature	Opaque Poly	0.6A	725-1009-ND	13.95	13.28	12.62	RSF84Y100R
	External Mount Sensor, SPST, Industrial Temperature	Grey PPS	0.6A	725-1010-ND	14.40	13.71	13.02	RSF86Y100R
3	External Mount Sensor, SPST, Standard Temperature	Stainless Steel	0.6A	725-1011-ND	100.04	95.25	90.46	SSF212XP
	External Mount Sensor, SPST, High Temperature	Stainless Steel	0.6A	725-1012-ND	69.38	66.05	62.73	SSF212X050
	Vertical Mount Sensors							
4	Reversible Sensor, Single Switch Type, M12 Thread	Black Nylon	0.6A	725-1013-ND	13.33	12.69	12.05	RSF53Y100RC
	Reversible Sensor, Single Switch Type, M12 Thread	Opaque Poly	0.6A	725-1014-ND	14.13	13.46	12.78	RSF54Y100RC
	Reversible Sensor, Single Switch Type, M12 Thread	Grey PPS	0.6A	725-1015-ND	15.90	15.14	14.38	RSF56Y100RC
	Reversible Sensor, Single Switch Type, 1/8" NPT	Black Nylon	0.6A	725-1016-ND	13.33	12.69	12.05	RSF53Y100R1/8
	Reversible Sensor, Single Switch Type, 1/8" NPT	Opaque Poly	0.6A	725-1017-ND	14.13	13.46	12.78	RSF54Y100R1/8
	Reversible Sensor, Single Switch Type, 1/8" NPT	Grey PPS	0.6A	725-1018-ND	15.90	15.14	14.38	RSF56Y100R1/8
	High Temp. Reversible Sensor, SPST, ½" NPT	Stainless Steel	0.6A	725-1019-ND	60.19	57.31	54.44	SSF22X035
	High Temp. Reversible Sensor, SPST, ½" NPT	Stainless Steel	0.6A	725-1020-ND	183.97	175.16	166.36	SSF26X035
5	Adjustable Slide Sensor, Single Switch	Poly	0.6A	725-1000-ND	43.86	41.76	39.66	RSF64EXS
	Extension Tube 306mm each (3 Max.)	Poly	0.6A	725-1001-ND	10.86	10.34	9.82	RSF64EXT
	Cable Mount Tank Sensors							
6	Turbulant Liquids, SPST-NO, with 5m Cable, WRAS Approved	Poly	10A	725-1024-ND	74.02	70.47	66.93	FFSMC10A
	Turbulant Liquids, SPST-NC, with 5m Cable, WRAS Approved	Poly	10A	725-1025-ND	74.02	70.47	66.93	FFSMC10B
	Turbulant Liquids, SPDT-C/O, with 5m Cable, WRAS Approved	Poly	10A	725-1026-ND	74.02	70.47	66.93	FFSMC10C
	High Power Tank Sensor SPST-NO with 5m Cable, WRAS Approved	Poly	10A	725-1021-ND	25.62	24.40	23.17	MS10A
	High Power Tank Sensor SPST-NC with 5m Cable, WRAS Approved	Poly	10A	725-1022-ND	25.62	24.40	23.17	MS10B
	High Power Tank Sensor SPDT-C/O with 5m Cable, WRAS Approved	Poly	10A	725-1023-ND	25.62	24.40	23.17	MS10C

Sensors – Flow Switches

Specifications: SPST-NO: 20VA, 120-240 VAC or VDC; SPDT-NO/NC: 20VA, 120-240 VAC or VDC

Fig. 1

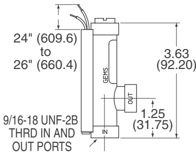

Fig. 2

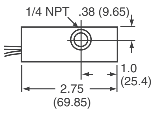

Fig. 3

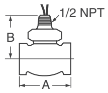

Port Size NPT	Dimensions - Inch (mm) A	B
1”	3-1/4 (82.6)	3 (76.2)
1-1/2”	4-1/4 (114.3)	3-1/2 (88.9)
2”	5-3/8 (136.5)	4 (101.6)

Fig. 4

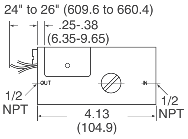

Fig.	Series	Housing	Piston	Spring	Switch Set Point - GPM	Switch	Operating Temperature	Port	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
1	FS-4 Piston Type, Molded Plastic Construction	Ryton® R4	316 Stainless Steel	316 Stainless Steel	0.1	SPST	0°F ~ 225°F (17°C ~ 107°C)	9/16"-18 UNF	376-1107-ND	51.56	50.54	49.50	122340
2	FS-925 Piston Type, General Purpose	316 SS	316 SS	316 Stainless Steel	0.10 ±10%	SPDT	-20°F ~ 300°F (-29°C ~ 148.9°C)	1/4" NPT	376-1122-ND	216.56	212.24	207.90	26926
3	FS-200 Shuttle Type General Purpose, Straight-Through Flow Path	Bronze	Ceramic	316 Stainless Steel	1 5.0 ~ 15.0 Adj.	SPDT	-20°F ~ 200°F (-29°C ~ 93.3°C)	1" NPT	376-1143-ND	113.44	111.17	108.90	26616

Fig.	Series	Housing	Piston	Spring	Switch Set Point GPM	Switch	Port	Interface	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
4	Externally Adjustable for Water, Oils and Gases	Brass	Brass for Oils Brass	Stainless Steel	20.0 Adj.	SPDT	1/2" NPT	Wire Leads	-20°F ~ 300°F (-29°C ~ 148.9°C)	376-1133-ND	206.25	202.13	198.00	25359

SAFE-PAK® Relay

Amplify Sensor Load-Handling Capabilities

Costly explosion-proof enclosure with their mounting requirements are unnecessary. No purging is required. Less than 100mA at 9VDC actuates the unit to control loads to 5A at 120VAC. Resistive (up to 100,000W) or short-circuiting sensors operate the unit.

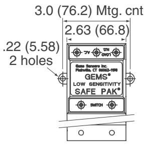

Load Voltage	Load Current	Operating Voltage	Switch	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
100 ~ 135VAC	5A	100 ~ 135VAC	SPST	0°F ~ 120°F (-17.8°C ~ 48.9°C)	376-1158-ND	116.88	114.54	112.20	25872

Single Channel Zener Barrier Switch - Series 65800

Render Switches or Signal Conditioners Intrinsically Safe

Features: • Intrinsic safety with solid-state reliability • Compact size streamlines installation • Space-saving in multiples • Encapsulated construction is impervious to dust and moisture **Specifications**: • Maximum Voltage 30VDC • Maximum Current 250mA • Resistance 303Ω • Channels - 1

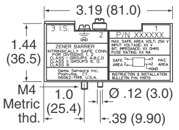

Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
-40°F ~ 140°F (-40°C ~ 60°C)	376-1166-ND	66.69	65.36	64.02	113000

Sensors – Float Type Level Switches

Features:
- Small size engineered plastics
- High reliability
- Compact Size
- Ideal for shallow tanks or restricted spaces

Part No. 376-1010-ND (46999): For external mounting on tanks too small to accommodate internally mounted switches.

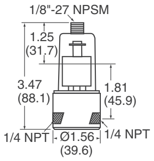

Series	Switch Rating	Switch Type	Material Stem and Mounting/Float	Minimum Liquid Sp. Gr.	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
LS-3	20VA, 120-240VAC	SPST	Polysolfone	.75	-40°F - 120°F (-40°C ~ 48.9°C)	376-1010-ND	67.38	66.03	64.68	46999

Flow Sensors

Features: Operating Temperature: Brass: -20°F ~ 212°F (-29°C ~ 100°C), Polypropylene Body: -20°F ~ 180°F (-29°C ~ 82°C)

RFS Type - Flow Set Point Switching: Combines visual confirmation of flow with dynamic, electronic switch operation. Easy, adjustable switch point calibration: a local LED signals when set point is reached.

RFI Type - Visual Indicators: A bright orange rotor turning with fluid flow. Simple, direct and reliable. Flow rate is estimated, or simply confirmed, by viewing the speed of the turning rotor. Either port may be used for incoming flow, and bayonet mounting lens is easily removed for quick clean out.

Series	Input Voltage	Flow Range GPM	Body Material	Port NPT	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
RFS Type SPDT	110VAC	5.0 ~ 30.0	Brass	3/4"	376-1088-ND	151.25	148.23	145.20	180396
RFI Type	Indicator	4.0 ~ 20.0	Polypropylene	1/2"	376-1098-ND	27.50	26.95	26.40	155480
		5.0 ~ 30.0	Brass	3/4"	376-1101-ND	72.19	70.75	69.30	180392

Electromechanical Controls

Series 3E - Conductive Switches: **Specifications:** • Pressure/Temperature: 125 psig @ 353°F (cast iron); 250 psig @ 406°F (brass)

Fig.	Vessel/Boss Thread	Terminal Housing Size WxDxH - Inches (mm)	No. of Probes	Body Material	Digi-Key Part No.	Price Each			Gems Part No.
						1	10	100	
1	2" NPT/ 1/2" NPT	3-1/4 x 3-1/4 x 2-3/8" (82.55 x 82.55 x 60.33)	2	Red Brass	376-1070-ND	81.81	80.18	78.54	3E2B
	2-1/2" NPT/ 1/2" NPT		4	Red Brass	376-1072-ND	129.94	127.34	124.74	3E4B
	2" NPT/ 1/2" NPT		3	Cast Iron	376-1075-ND	89.38	87.59	85.80	3E3A

Series 3B - Two Piece Threaded Coupling: **Specifications:** • Pressure/Temperature: 400 psig @ 406°F • Body Material - 316 Stainless Steel

Fig.	Thread / Probes Required	Digi-Key Part No.	Price Each			Gems Part No.
			1	10	100	
2	3/8"-18NPT / 3R Series	376-1067-ND	17.88	17.52	17.16	3B1B

Fig. 1

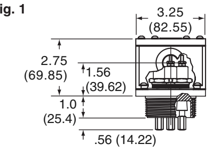

Fig. 2

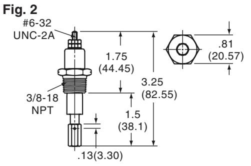

Vikuiti™ Enhanced Specular Reflector (ESR)

A reflector for a brighter, more efficient display

Features:

- 98% reflectance across the visible spectrum
- Thin, non-metallic polymer film

Specifications:

Sheet Size: 11 in. x 11 in. Thickness: 65µm (2.6 mils)

Description	Digi-Key Part No.	Price Each		3M Part No.
		1	10	
ESR film, 1 sheet	3M5510-ND	34.00	27.20	—
ESR film, 30 sheet product kit	3M5510-KIT-ND	739.50	—	98044009557

Note: *For detailed specifications, please see our website.*

Vikuiti™ Brightness Enhancement Film (BEF) II and III

Vikuiti BEF II and III recycle diffused light into the backlight and direct the light through the LCD, thereby providing increased brightness toward the on-axis viewer.

The prism pitch refers to the distance between the peaks of adjacent prisms when the prism angle is fixed at 90°.

Description	Prism Pitch (µm)	Digi-Key Part No.	Price Each		3M Part No.
			1	10	
BEF II, 1 sheet	50	3M5511-ND	29.33	23.47	—
BEF II, 30 sheet product kit	50	3M5511-KIT-ND	660.00	—	98043985039
BEF II, 1 sheet	24	3M5512-ND	29.33	23.47	—
BEF II, 30 sheet product kit	24	3M5512-KIT-ND	660.00	—	98043985609
BEF III-M, 1 sheet	50	3M5513-ND†	29.33	23.47	—
BEF III-M, 30 sheet product kit	50	3M5513-KIT-ND†	660.00	—	98044003659

† Matte bottom surface finish

Note: *For detailed specifications, please see our website.*

Vikuiti™ Dual Brightness Enhancement Film (DBEF)

Vikuiti DBEF films work through polarization recycling. A typical polarizer absorbs light that is not polarized correctly. DBEF reflects this light into the backlight, where it can be recycled into the correct polarization.

Description	Digi-Key Part No.	Price Each	3M Part No.
DBEF-E Film, 0°, 17 in. x 17 in., 1 Sheet	3M5670-ND	112.20	—
DBEF-E Film, 0°, 17 in. x 17 in., 10 Sheet Kit	3M5670-KIT-ND	957.00	98-0440-0359-2
DBEF-E Film, 45°, 17 in. x 17 in., 1 Sheet	3M5671-ND	112.20	—
DBEF-E Film, 45°, 17 in. x 17 in., 10 Sheet Kit	3M5671-KIT-ND	957.00	98-0440-0360-0
DBEF-D400, 0°, 17 in. x 17 in., 1 Sheet	3M5672-ND	138.55	—
DBEF-D400, 0°, 17 in. x 17 in., 10 Sheet Kit	3M5672-KIT-ND	1181.75	98-0440-4277-2
DBEF-D400, 45°, 17 in. x 17 in., 1 Sheet	3M5673-ND	138.55	—
DBEF-D400, 45°, 17 in. x 17 in., 10 Sheet Kit	3M5673-KIT-ND	1181.75	98-0440-4278-0

Note: *For detailed specifications, please see our website.*

Vikuiti™ Anti-Reflection Matte Removable Film (ARMR200)

Features:

• Durable - Protects display from scratches and scuffs • Anti-reflective coating helps improve clarity and readability • Easy to clean - markers and fingerprints wipe away easily • Non-tacky adhesive removes easily with no residue • Matte surface for less slippage when writing with a stylus

Description	Digi-Key Part No.	Price Each	3M Part No.
ARMR200, 2.84 in. x 2.13 in. 3 sheet kit	3M5514-KIT-ND	15.25	98044042731
ARMR200, 9.74 in. x 7.32 in. 1 sheet	3M5515-ND	18.70	—
ARMR200, 9.74 in. x 7.32 in. 5 sheet kit	3M5515-KIT-ND	85.00	98044042616

Note: *For detailed specifications, please see our website.*

Vikuiti™ Durable Quick Clean Matte Film (DQC-M)

Vikuiti Durable Quick Clean Matte Film is an easy, cost-saving way to repair many types of LCD damage. The specially designed adhesive on Vikuiti DQC-M Film fills in most screen surface irregularities so they are virtually undetectable. DQC-M is a quick fix that will save you time and money over replacing the polarizer and/or the entire LCD module.

Description	Digi-Key Part No.	Price Each		3M Part No.
		1	10	
DQC-M, 12 in. x 9 in., 1 sheet	3M5516-ND	16.52	13.22	—
DQC-M, 12 in. x 9 in., 50 sheet kit	3M5516-KIT-ND	619.50	—	98044043721

Note: *For detailed specifications, please see our website.*

Vikuiti™ Advanced Light Control Film (ALCF-P)

Vikuiti Advanced Light Control Film blocks out display screen views from the side while allowing unrestricted viewing to users in front. Seen from the right or left, the screen appears dark; seen from the front, the screen is bright and clear.

Specifications:

• Sheet size: 12 in. x 11.5 in. • Sheet Thickness: 0.21 in. ±0.003 in.

Description	Digi-Key Part No.	Price Each	3M Part No.
ALCF-P, Gloss finish, 1 sheet	3M5517-ND	93.50	—
ALCF-P, Gloss finish, 10 sheet kit	3M5517-KIT-ND	797.50	98044042640
ALCF-P, Matte finish, 1 sheet	3M5518-ND	115.60	—
ALCF-P, Matte finish, 10 sheet kit	3M5518-KIT-ND	986.00	98044042665

Note: *For detailed specifications, please see our website.*

Notebook Privacy Computer Filters

Notebook privacy computer filters keep on-screen information private. From the side, others see a darkened screen, providing worry-free privacy.

Features:

• No blurring or distorting screen images • Helps protect computer screen from scratches, fingerprints and damage • Improves contrast and reduces screen reflections • Easy on, easy off attachment method • Reversible – choose matte or gloss finish

Note: *For proper fit, do not include the plastic monitor or laptop frame in your measurement.*

Notebook / LCD Computer Filters

Filter Viewing Area H x W (Inch)	Fits Monitor Size (Inch)	Digi-Key Part No.	Price Each		3M Part No.
			1	10	
7.32 x 9.74	12.1	3M5588-ND	61.65	51.38	PF12.1
6.46 x 10.29	12.1	3M5589-ND‡	63.45	52.88	PF12.1W
7.99 x 10.63	13.3	3M5590-ND	61.65	51.38	PF13.3
8.44 x 11.25	14.1	3M5591-ND	63.00	52.50	PF14.1
7.50 x 11.99	14.1	3M5592-ND‡	64.80	54.00	PF14.1W

‡ Fits Widescreen Monitors

(Continued)

Notebook Privacy Computer Filters

Notebook / LCD Computer Filters *(Cont.)*

Filter Viewing Area H x W (Inch)	Fits Monitor Size (Inch)	Digi-Key Part No.	Price Each		3M Part No.
			1	10	
8.98 x 11.98	15.0	3M5593-ND	68.40	57.00	PF15.0
8.18 x 13.09	15.4	3M5594-ND‡	70.20	58.50	PF15.4W
10.64 x 13.3	17.0	3M5595-ND	103.28	88.09	PF17.0
9.06 x 14.47	17.0	3M5596-ND‡	106.68	90.99	PF17.0W
11.3 x 14.13	18.1	3M5597-ND	110.93	94.62	PF18.1
11.89 x 14.83	19.0	3M5598-ND	123.86	105.65	PF19.0

‡ Fits Widescreen Monitors

Desktop Monitor Filters — Gray Flat Frame

Filter Viewing Area H x W (Inch)	CRT Monitor Size (Inch)	LCD Monitor Size (Inch)	Digi-Key Part No.	Price Each		3M Part No.
				1	10	
8.56 x 11.58	13~15	—	3M5605-ND	118.90	101.42	PF500L
9.75 x 12.75	14~16	15	3M5599-ND	144.09	122.91	PF400L
9.75 x 12.75	14~16	15	3M5602-ND◊	144.09	122.91	PF400LB
11.5 x 14.13	16~19	17~18	3M5600-ND	239.46	209.53	PF400XL
11.5 x 14.13	16~19	17~18	3M5603-ND◊	239.46	209.53	PF400XLB
11.5 x 14.13	16~19	17~18	3M5606-ND	172.19	150.67	PF500XL
13 x 16	19~21	19 ~ 20	3M5601-ND	407.54	361.35	PF400XXL
13 x 16	19~21	19 ~ 20	3M5604-ND◊	407.54	361.35	PF400XXLB

◊ Black flat frame

MicroTouch™ Capacitive Touch Screens and Accessories

ClearTek™ II Capacitive Touch Screens

Features:

- Excellent light transmission of 91.5% (±1.5%) provides vibrant optical characteristics with optimal anti-glare properties
- Resilient top coat provides smooth, easy glide surface while offering durable scratch resistance
- Performance unaffected by everyday contaminants in the environment

Note: *For detailed specifications, please see our website.*

Size (Inch)	Digi-Key Part No.	Price Each			3M Part No.
		1	10	50	
6.71	3M5519-ND	98.60	84.10	77.14	17-8091-203
8.75	3M5520-ND	102.00	87.00	79.80	17-8921-203
10.83	3M5521-ND	103.70	88.45	81.13	17-8021-203
12.31	3M5522-ND	125.80	107.30	98.42	17-8581-203

Size (Inch)	Digi-Key Part No.	Price Each			3M Part No.
		1	10	50	
15.68	3M5523-ND	168.30	143.55	131.67	17-8031-203
17.54	3M5524-ND	174.40	152.60	141.70	17-8421-203
19.75	3M5525-ND	184.00	161.00	149.50	17-8511-203
20.65	3M5526-ND	192.00	168.00	156.00	17-8441-203
31.80	3M5527-ND	868.80	760.20	705.90	17-8951-205

Controllers

Interface	Sensor Support	Digi-Key Part No.	Price Each			3M Part No.
			1	10	50	
EX II Capacitive Controllers						
USB	ClearTek II	3M5539-ND	78.20	66.70	61.18	EXII-7710UC
Serial		3M5540-ND	78.20	66.70	61.18	EXII-7720SC
MicroTouch SC Resistive Controllers						
USB	4-Wire	3M5541-ND	41.40	37.26	26.91	SC401U
Serial		3M5542-ND	41.40	37.26	26.91	SC402S
USB	5-Wire	3M5543-ND	41.40	37.26	26.91	SC501U
Serial		3M5544-ND	41.40	37.26	26.91	SC502S
USB	8-Wire	3M5545-ND	41.40	37.26	26.91	SC801U
Serial		3M5546-ND	41.40	37.26	26.91	SC802S
Chip Set for Resistive Controller						
—	—	3M5547-ND	20.00	18.00	13.00	SCX-ASIC

USB and Serial Cables

Description	Digi-Key Part No.	Price Each			3M Part No.
		1	10	50	
SC Series Cables					
USB, 5 pin, 96” (Pearl)	3M5548-ND	14.00	12.60	9.10	7319420
Serial, 8 pin, 96” (Teal).............	3M5549-ND	14.00	12.60	9.10	7319630
EX II Series Cables					
RS-232, 7 pin, 96” (Pearl)...........	3M5551-ND	14.00	12.60	9.10	7310101
USB, 5 pin, 96” (Pearl)	3M5552-ND	14.00	12.60	9.10	7312256
USB, 5 pin, 96” (Black).............	3M5553-ND	18.00	16.20	11.70	7314420
USB, 5 pin, 23” (Black).............	3M5554-ND	14.00	12.60	9.10	7315050
Mounting Tape					
VHB, 3/8 in. x 36 yards.............	3M5550-ND	61.20	52.20	47.88	24736

Infrared Touch Screens

E and K Series Infrared Touch Screens:

Infrared technology uses infrared emitter-collector pairs to project an invisible grid of light a small distance over the surface of the screen. When a beam is interrupted, the absence of the signal at the collector is detected and converted to an X/Y touch coordinate.

Features:

- Super Transparency
- High Resolution (Interpolated 4096 x 4096)
- Fast response time
- Versatile Touch Object
- No Drift
- Scratch Resistant
- Water/Dust Resistant (IP65)
- Sunlight Operable
- Integrated Controller
- Wide Temperature Range (-40°C ~ 70°C)
- Robust Design
- Long Life Expectancy

Size (Inch)	Outside Dimensions W x H x D (mm)	Port	Active Area W x H (mm)	Digi-Key Part No.	Price Each				IRTOUCH Systems Part No.
					1	10	50	100	
E Series									
6.4	165.6 x 133 x 8.7	RS-232	130.6 x 98	653-1008-ND	108.00	94.50	81.00	67.50	E-64-C
		USB		653-1009-ND	108.00	94.50	81.00	67.50	E-64-U
6.5	169 x 136 x 9.1	RS-232	134 x 101	653-1010-ND	108.00	94.50	81.00	67.50	E-65-C
		USB		653-1011-ND	108.00	94.50	81.00	67.50	E-65-U
8.4	210.6 x 161.6 x 6.8	RS-232	171.6 x 128.6	653-1012-ND	138.24	120.96	103.68	86.40	E-84-C
		USB		653-1013-ND	138.24	120.96	103.68	86.40	E-84-U
10.4	244.2 x 191.4 x 6.8	RS-232	211.2 x 158.4	653-1014-ND	170.64	149.31	127.98	106.65	E-104-C
		USB		653-1015-ND	170.64	149.31	127.98	106.65	E-104-U
12.1	281.9 x 220.7 x 6.8	RS-232	246.4 x 185.2	653-1000-ND	192.24	168.21	144.18	120.15	E-12-C
		USB		653-1001-ND	192.24	168.21	144.18	120.15	E-12-U
15.1	342 x 266 x 6.8	RS-232	306 x 230	653-1002-ND	222.48	194.67	166.86	139.05	E-15-C
		USB		653-1003-ND	222.48	194.67	166.86	139.05	E-15-U
17	376 x 308 x 6.8	RS-232	340 x 272	653-1004-ND	250.56	219.24	187.92	156.60	E-17-C
		USB		653-1005-ND	250.56	219.24	187.92	156.60	E-17-U
19	414 x 339 x 6.8	RS-232	378 x 303	653-1006-ND	295.92	258.93	221.94	184.95	E-19-C
		USB		653-1007-ND	295.92	258.93	221.94	184.95	E-19-U
K Series - Side Mount									
12	327. 2 x 237.2 x 10.3	RS-232	246 x 185	653-1016-ND	222.48	194.67	166.86	139.05	K-12-C
		USB		653-1017-ND	222.48	194.67	166.86	139.05	K-12-U
15	395 x 283.2 x 10.3	RS-232	307 x 231	653-1018-ND	257.04	224.91	192.78	160.65	K-15-C
		USB		653-1019-ND	257.04	224.91	192.78	160.65	K-15-U
17	429.2 x 331.2 x 11.0	RS-232	338.5 x 271	653-1020-ND	287.28	251.37	215.46	179.55	K-17-C
		USB		653-1021-ND	287.28	251.37	215.46	179.55	K-17-U
19	460.2 x 352.1 x 11.0	RS-232	376.1 x 301.1	653-1022-ND	341.28	298.62	255.96	213.30	K-19-C
		USB		653-1023-ND	341.28	298.62	255.96	213.30	K-19-U

THE BERGQUIST COMPANY

5-Wire Resistive Touch Screens

The Bergquist 5-Wire Resistive Touch Screens are inherently the most durable resistive touch screens on the market, engineered to withstand high-usage environments. Unlike other resistive technologies that must use two opposing layers to create X- and Y- axis measurements (such as 4-wire and 8-wire technologies), 5-wire sensors utilize a stable glass substrate for both X- and Y- axis measurements. **Features:** • Durability: 35 Million actuations/Drift-free operation at all times • Accuracy: 98.5% accurate - without external electronic correction • Actuation: Any finger, glove or stylus • Optics: Index-matched materials provide 81% light transmission and patented spacer dot design • Warranty: All 5-wire touch screens come with a 5-year warranty

Touch Screen Starter Kit Contains: • Touch Screen Controller • RS-232 and USB Cable • Software and Drivers • 110V Power Supply • Documentation and Manuals • Plastic Case • Storage space for touch screen

Note: *Appropriate touch screen must be purchased separately*

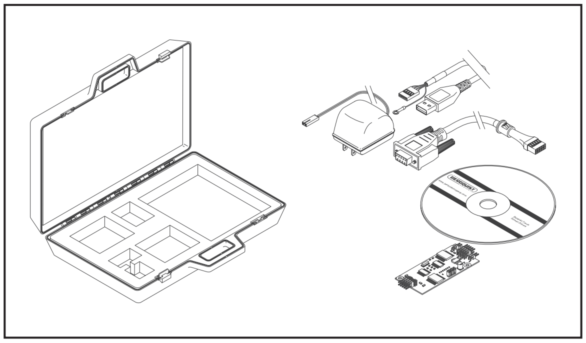

Size (Inches)	Outside Dimensions (mm)	Active Area (mm)	Digi-Key Part No.	Price Each	Bergquist Part No.
5-Wire Touch Screens — RoHS Compliant					
6.4	153.9 x 126.5	133.0 x 99.3	BER234-ND	49.00	400265-01
8.4	196.5 x 196.5	174.0 x 131.4	BER235-ND	55.00	400273-01
10.4	231.8 x 182.4	213.0 x 160.4	BER236-ND	59.00	400302
12.1	271.27 x 205.74	248.87 x 187.4	BER248-ND ***NEW!***	83.70	400403
12.1	271.27 x 205.74	248.87 x 187.4	BER249-ND ***NEW!***	91.45	400404
12.3	271.3 x 205.7	248.9 x 187.4	BER237-ND	62.00	400201-02
15.0	322.0 x 245.5	303.5 x 227.5	BER247-ND ***NEW!***	100.75	400384
15.1	342.9 x 264.4	309.9 x 231.9	BER238-ND	83.00	400211-02
19.2	406.3 x 323.4	380.9 x 305.6	BER240-ND	107.00	400225-01
Accessories					
Controller Touch Screen USB RS232			BER241-ND◆	34.00	500499
6' Cable RS-232 for Touch Screen			BER242-ND	8.00	400196
6' Cable USB for Touch Screen			BER243-ND	8.00	400199
Power Supply for Touch Screen			BER244-ND	12.00	400294
Kit — RoHS Compliant					
Starter Kit for Touch Screen			BER245-ND	125.00	400293

◆ ***RoHS Compliant***

TOSHIBA

TFT LCD Displays

RoHS COMPLIANT

Size (Inches)	Resolution (Pixels)	Outline Dimensions - mm W x H x D	Brightness (cd/m²)	Contrast Ratio	Viewing Angle Vertical	Viewing Angle Horizontal	Power Consumption (Watts)	Operating Temperature (°C)	I/F Signal	Type	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
3.5	320 x 240	90 x 72 x 9	350	350	120	140	0.87	-20 ~ 70	CMOS	QVGA	LTA035A350F-ND	142.50	133.00	123.50
5.6	1024 x 600	136.8 x 85.9 x 2.95	300	400	50	80	1.40	0 ~ 50	LVDS	WSVGA	LTD056ET2S-ND ***NEW!***	367.50	343.00	318.50
5.7	320 x 240	144 x 104.8 x 9.3	400	500	120	140	1.36	-20 ~ 70	CMOS	QVGA	LTA057A340F-ND	202.50	189.00	175.50
5.8	400 x 234	145 x 89 x 15.8	350	100	90	110	7.50	-20 ~ 60	Composite	WQVGA	TFD58W29MW-ND† ***NEW!***	300.00	280.00	260.00
5.8	400 x 234	145 x 89 x 15.8	350	350	90	110	7.50	-20 ~ 60	Composite	WQVGA	TFD58W26MW-ND†	300.00	280.00	260.00
6.5	640 x 480	153 x 121 x 10.9	400	500	120	140	3.70	-20 ~ 70	LVDS	VGA	LTA065B0D2F-ND§ ***NEW!***	315.00	294.00	273.00
7.0	800 x 480	170.8 x 110 x 10	280	450	100	120	3.11	-10 ~ 60	CMOS	WVGA	LTA070A321F-ND‡	277.50	259.00	240.50
7.5	640 x 480	195.2 x 137.5 x 9.5	350	380	120	140	3.40	-20 ~ 70	CMOS	VGA	LTA075A362F-ND▲ ***NEW!***	345.00	322.00	299.00
8.4	800 x 600	199.5 x 149.5 x 12	350	300	90	100	6.40	-10 ~ 60	LVDS	SVGA	LTM08C351R-ND◊	427.50	399.00	370.50
8.5	800 x 480	224 x 135 x 14	215	250	100	120	5.50	-10 ~ 70	CMOS	WVGA	LTA085C184F-ND‡	318.00	296.80	275.60
8.9	1280 x 768	224 x 133 x 5.15	225	140	50	50	2.94	0 ~ 50	LVDS	WXGA	LTD089EXWS-NDΔ	510.00	476.00	442.00
10.4	640 x 480	238.5 x 177.5 x 12	400	500	120	140	6.30	-10 ~ 65	CMOS	VGA	LTD104C11R-ND◊	382.50	357.00	331.50

† Composite Video and Analog RGB § With LED Driver ‡ With Touchscreen ▲ 4 Wire Touch Panel ◊ Anti-Reflective Coating Δ Transflective

SHARP® MICROELECTRONICS

TFT LCD Displays

Normal Display White

Size (Inches)	Pixel Format★	Outline Dimensions - mm W x H x D	Brightness (nits)	Contrast Ratio	Viewing Angle Vertical†	Viewing Angle Horizontal	Total Power Typical (W)	Operating Temperature (°C)	Type	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Sharp Part No.
3.0	320 x 320	66.6 x 68.5 x 3.6	100	—	40/50	100	0.35	-10 ~ 60	QVGA	425-2479-ND◆	152.72	128.80	115.00	LQ030B7DD01
3.5	240 x 320	65.0 x 85.0 x 3.4	55	15/85	100/100	100	0.35	-10 ~ 60	QVGA	425-2481-ND	181.36	152.95	136.57	LQ035Q7DB03
3.6	320 x 240	82.8 x 69.7 x 3.3	300	300	130/130	160	0.43	-10 ~ 60	QVGA	425-2482-ND◆	143.18	120.75	107.82	LQ036Q1DA01
3.8	240 x 320	69.0 x 88.6 x 3.4	90	8/75	100/100	100	0.52	0 ~ 50	QVGA	425-2649-ND◆	209.99	177.10	158.13	LQ038Q7DB03R
3.8	320 x 240	117.6 x 69.45 x 13.45	450	100	—	130	3.36	-30 ~ 85	QVGA	425-2484-ND	314.99	265.65	237.19	LQ038Q5DR01
5.0	320 x 240	119.4 x 89.1 x 12.7	380	—	—	130	4.15	-30 ~ 85	QVGA	425-2485-ND	353.17	297.85	265.94	LQ050Q5DR01
5.0	960 x 234	126.8 x 89.6 x 16.5	320	60	40/65	130	5.37	-30 ~ 85	QVGA	425-2486-ND	276.00	243.80	225.40	LQ5AW136
8.0	640 x 480	183.0 x 141.0 x 14.0	380	250	65/55	130	6.20	0 ~ 55	VGA	425-2489-ND	491.63	434.27	401.50	LQ080V3DG01
8.4	640 x 480	216.0 x 152.4 x 12.0	300	250	55/40	110	5.45	0 ~ 55	VGA	425-2490-ND◆	526.13	464.75	429.67	LQ084V1DG21
8.4	800 x 600	199.5 x 149.5 x 11.6	350	250	30/65	110	6.02	-10 ~ 65	SVGA	425-2491-ND◆	560.63	495.22	457.85	LQ084S3DG01
10.4	640 x 480	246.5 x 179.4 x 14.2	350	300	40/70	140	6.76	-10 ~ 65	VGA	425-2470-ND	508.88	449.51	415.59	LQ104V1DG51
10.4	800 x 600	246.5 x 179.4 x 15.0	350	300	40/70	140	7.80	-10 ~ 65	SVGA	425-2472-ND	517.50	457.13	422.63	LQ104S1DG21
12.1	800 x 600	276.4 x 209.0 x 11.0	350	300	50/60	140	8.02	-10 ~ 65	SVGA	425-2473-ND	422.63	373.32	345.15	LQ121S1DG41
12.1	800 x 600	276.0 x 209.0 x 11.0	350	300	50/60	140	8.02	-10 ~ 65	SVGA	425-2474-ND	422.63	373.32	345.15	LQ121S1LG41
15.0	1024 x 768	331.6 x 254.76 x 12.5	600	350	55/45	120	15.49	0 ~ 60	XGA	425-2475-ND	508.88	449.51	415.59	LQ150X1LGB1
15.0	1024 x 768	346.0 x 255.0 x 11.0	250	350	55/45	120	10.20	0 ~ 50	XGA	425-2476-ND	391.35	330.05	294.69	LQ150X1LGN2A

◆ ***RoHS Compliant*** ★ 1 Pixel = R+G+B dots † Vertical Viewing Angle 12 o'clock and 6 o'clock

DIGITALVIEW®

LCD Controller Boards and Accessories

Digital View is the leading supplier of advanced interface solutions for the flat panel display market.

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Digital View Part No.
Controller Boards — RoHS Compliant					
ALR-1400 PC,DVI Controller for TFT Panel	586-1016-ND	131.67	—	—	4171000XX-3
SP-1600 PC, DVI Controller for TFT Panel	586-1019-ND	263.34	—	—	4169900XX-3
Accessories					
Add-on Board for LVDS Displays	586-1020-ND◆	61.18	—	—	416212201-3
Add-on Board for LVDS Displays	586-1002-ND	61.18	—	—	4162135-XX
4-Way Inverter Cable	586-1007-ND◆	10.00	7.50	6.25	426040200
5-Way inverter Cable	586-1008-ND◆	10.00	7.50	6.25	426058300-3
Cable for Controller ACG-1024 (4167202-xx)	586-1009-ND◆	44.00	33.00	27.50	426311200-3
Cable for Controller ACG-1024 (4167201-xx)	586-1010-ND◆	38.00	28.50	23.75	426311600
LVDS Cable for Controller AL-1280 (4169300-xx).................................	586-1011-ND◆	28.00	21.00	17.50	426472600
LVDS Cable for Controller AL-1280 (4169300-xx).................................	586-1013-ND◆	46.00	34.50	28.75	426473000
LVDS Cable..	586-1014-ND◆	28.00	21.00	17.50	426474300
Panel Cable for Controller SVH-1920 (4263112-00)	586-1017-ND◆	40.00	30.00	25.00	426500400-3
Panel Cable for Controller SVH-1920 (4263116-00)	586-1018-ND◆	40.00	30.00	25.00	426500500-3
Kit					
OSD Board Kit with Cable ACG/AVP/SVP/SV....................................	586-1015-ND	48.00	36.00	30.00	KIT 60109

◆ ***RoHS Compliant***

LCD Total Solution Provider
www.optrex.com

Industrial TFT LCDs

Optrex manufactures the industry's widest range of digital TFT LCDs for a broad array of non-PC industrial applications. These rugged, high-performance modules deliver best-in-class front-of-screen performance for high-resolution color display of images from static to full-motion video.

Features Include:

- Wide operating temperature ranges
- Wide viewing angles
- Powerful backlights
- High contrast
- High brightness
- Excellent color saturation
- VGA, SVGA and XGA formats

Description	Digi-Key Part No.
6.5" VGA TTL	73-1243-ND
8.4" VGA TTL	73-1226-ND
8.4" XGA LVDS	73-1227-ND
10.4" VGA TTL	73-1228-ND
12.1" SVGA TTL	73-1229-ND
12.1" XGA LVDS	73-1244-ND
12.1" SVGA LVDS	73-1245-ND
15.0" XGA TTL	73-1230-ND

Optrex TFT LCDs can also be provided with the latest technological advancements for enhanced performance, including:

- Anti-Reflection surface treatments
- LVDS interfaces
- Ultra-Wide Viewing (UWV) angles
- Natural Color Matrix (NCM) technology

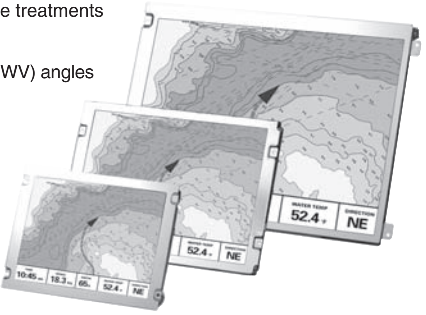

TFT LCD ToolKITs™

Optrex's LCD ToolKITs™ save engineering and procurement time by providing everything you need to put the LCD into operation – right out of the box.

Kits Include:

- TFT panel
- Controller board with on-screen display (OSD) board
- Inverter board and power cable
- 12V DC power supply with AC line cord
- VGA (analog RGB) cable
- Video input cable
- CD-ROM with Quick Set-Up and documentation

Description	Digi-Key Part No.
8.4" VGA ToolKIT	73-1246-ND
8.4" XGA ToolKIT	73-1247-ND
10.4" VGA ToolKIT	73-1224-ND
15.0" XGA ToolKIT	73-1223-ND

Color and Monochrome Graphic LCDs

Optrex's range of CSTN passive matrix LCDs provide clear, sharp display of color graphics in all kinds of lighting conditions. They're ideal for applications requiring a small to mid-size display that provides quality color at an economical cost.

Features include:

- Slim, compact, lightweight design
- High legibility in all ambient light conditions
- Fast response times
- Multiple backlighting options available

Optrex STN passive matrix monochrome graphic LCDs offer a wide range of sizes and display formats.

Features include:

- Wide variety of color/background combinations
- High brightness, high contrast
- Low power consumption
- LED or CCFL backlight options
- Transmissive, reflective or transflective types available

See following page for part numbers and specifications.

Character LCDs

Optrex manufactures a broad range of monochrome character LCDs in a wide variety of dot pixel formats and color/background combinations.

They provide:

- Industry-standard configurations
- High contrast
- Wide operating temperature ranges
- Low operating current, with more luminance per watt
- Positive (transflective) and negative (transmissive) options
- Superior legibility via Optrex's High Performance Color (HPC) technology

OPTREX New Character Type Module C-51505
OPTREX New Character Type Module C-51505
OPTREX New Character Type Module C-51505
OPTREX New Character Type Module C-51505

See following page for part numbers and specifications.

OPTREX™

Graphic LCD Modules

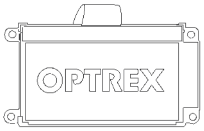

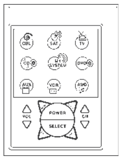

The Graphic LCD Modules come in a wide variety of sizes and formats that will satisfy virtually any application.

They range from monochrome to full color (RGB) display modules.

Diag. Size	LCD Mode	Dot Format	Dot Pitch (mm)	Outline Dim. W x H x D (mm)	Viewing Area	Backlight	Lum-inance	Contrast Ratio	Operating Temp. (°C)	Digi-Key Part No.	Price Each		Optrex Part No.
											1	100	
Color Transmissive Graphic Displays													
3.8	Color	240 x RGB x 320	.24 x .24	73 x 94.4 x 7.3	59 x 80.3	CCFL	70	45:1	0 ~ 50	73-1238-ND	110.38	81.56	F-51373GNC-FW-AH
3.8	Color	240 x RGB x 320	.24 x .24	73 x 94.4 x 7.3	59 x 80.3	CCFL	70	40:1	0 ~ 50	73-1312-ND◆	121.12	89.72	F-51373GNC-FW-ATN
3.8	Color	240 x RGB x 320	.24 x .24	73 x 94.4 x 7.3	59 x 80.3	White LED	40	40:1	0 ~ 50	73-1313-ND◆	108.34	80.06	F-51373GNC-LW-AUN
5.7	Color	320 x 240	.12 x .36	167.1 x 109 x 8	122 x 92	CCFL	120	40:1	0 ~ 50	73-1215-ND	180.08	133.39	F-51167NCU-FW-AA
Monochrome Transmissive Graphic Displays													
2.8	Blue/White	128 x 64	.48 x .48	89.7 x 49.8 x 6	66.8 x 35.5	LED(Blue/White)	100	6:1	0 ~ 50	73-1285-ND◆	25.96	19.18	F-51320GNB-LW-AEN
2.8	Blue/White	128 x 64	.50 x .50	89.7 x 49.8 x 6	66.8 x 35.5	White LED	100	8:1	-20 ~ 70	73-1284-ND◆	17.50	16.64	F-51553GNBJ-LW-AEN
2.8	Blue	128 x 64	.50 x .50	89.7 x 49.8 x 6	69 x 36.5	White LED	—	8:1	-20 ~ 70	73-1321-ND◆	24.75	18.25	F-51852GNBJ-LW-AKN
2.8	Yellow/Dark Blue	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	66.8 x 35.5	LED(Yellow)	60	4.5:1	0 ~ 50	73-1311-ND◆	25.38	18.80	F-51320GNY-LY-AFN
2.8	Black/Green	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	69 x 36.5	Green LED	100	60:1	-20 ~ 70	73-1270-ND◆	24.09	22.89	F-51852GNFQJ-LG-ACN
2.8	Black/Yellow	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	69 x 36.5	Yellow LED	100	60:1	-20 ~ 70	73-1272-ND◆	24.44	23.22	F-51852GNFQJ-LY-ADN
2.8	Black/Red	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	69 x 36.5	Red LED	100	60:1	-20 ~ 70	73-1271-ND◆	34.40	25.42	F-51852GNFQJ-LR-AGN
2.8	Black/White	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	69 x 36.5	White LED	100	65:1	-30 ~ 80	73-1268-ND◆	39.43	29.22	F-51852GNFQH-LW-AFN
2.8	Black/White	128 x 64	.50 x .50	89.7 x 49.8 x 6.0	69.0 x 36.5	White LED	—	60:1	-20 ~ 70	73-1332-ND◆ ***NEW!***	19.51	18.53	F-51852GNFQJ-LW-AMN
2.8	Black/White	128 x 64	.50 x .50	89.7 x 49.8 x 6.0	69.0 x 36.5	Blue LED	—	60:1	-20 ~ 70	73-1330-ND◆ ***NEW!***	22.02	20.92	F-51852GNFQJ-LB-AIN
2.8	Black/White	128 x 64	.50 x .50	89.7 x 49.8 x 6.0	69.0 x 36.5	Green LED	—	60:1	-20 ~ 70	73-1331-ND◆ ***NEW!***	19.51	18.53	F-51852GNFQJ-LG-ALN
4.7	Black/White	320 x 240	.30 x .30	129.4 x 94 x 10	99.9 x 77	White LED	280	20:1	0 ~ 50	73-1317-ND◆	119.55	88.56	F-51477GNF-LW-ANN
5.2	Yellow/Dark Blue	240 x 64	.53 x .53	180 x 65 x 17.6	132 x 39	Yellow LED	45	7:1	0 ~ 50	73-1305-ND◆	84.30	62.44	DMF-5005NY-LY-CNE-DCN
5.2	Blue/White	240 x 64	.53 x .53	149.5 x 51.7 x 9.8	130.2 x 36.7	White LED	400*	5:1	0 ~ 50	73-1314-ND◆	53.05	39.30	F-51405GNB-LW-ANN
5.2	Black/White	240 x 64	.53 x .53	135.2 x 51.7 x 9.8	130.2 x 37.6	White LED	100	60:1	-20 ~ 70	73-1265-ND◆	65.00	48.03	F-51851GNFQJ-LW-AAN
5.2	Black/Blue	240 x 64	.53 x .53	135.2 x 51.7 x 9.8	130.2 x 37.6	Blue LED	100	60:1	-20 ~ 70	73-1263-ND◆	76.94	57.00	F-51851GNFQJ-LB-ABN
5.2	Black/Green	240 x 64	.53 x .53	135.2 x 51.7 x 9.8	130.2 x 37.6	Green LED	100	60:1	-20 ~ 70	73-1264-ND◆	62.42	46.13	F-51851GNFQJ-LG-ACN
5.2	Black/Yellow	240 x 64	.53 x .53	135.2 x 51.7 x 9.8	130.2 x 37.6	Yellow LED	70	60:1	-20 ~ 70	73-1266-ND◆	64.53	47.69	F-51851GNFQJ-LY-ADN
5.4	Blue/White	240 x 128	.50 x .50	170 x 95 x 16.7	126 x 70	LED(Yellow/Green)	40	6:1	0 ~ 50	73-1199-ND	181.14	134.18	DMF-50773NF-SLY
5.4	Blue/White	240 x 128	.50 x .50	170 x 95 x 16.7	126 x 70	LED(Yellow/Green)	40	6:1	0 ~ 50	73-1307-ND◆	165.56	122.64	DMF-50773NF-SLY-AKN
9.4	Black/White	640 x 480	.30 x .30	260 x 174 x 8.5	196 x 148	CCFL	110	14:1	0 ~ 50	73-1315-ND◆	262.69	215.55	F-51430NFU-FW-AEN
Monochrome Transflective Graphic Displays — RoHS Compliant													
2.8	Black/Winter White	128 x 64	.499 x .499	89.7 x 49.8 x 6.0	69.0 x 36.5	White LED	48	4.5:1	-20 ~ 70	73-1329-ND‡ ***NEW!***	16.67	15.83	F-51852GNFJ-SLW-AJN
4.7	Black/Winter White	160 x 128	.58 x .58	129 x 102 x 13.5	108.6 x 82.55	White LED	40	4.5:1	-20 ~ 70	73-1273-ND‡	106.98	79.25	F-51854GNFJ-SLW-ABN
5.2	Black/Winter White	240 x 64	.53 x .53	135.2 x 51.7 x 9.8	130.2 x 37.6	White LED	40	4.5:1	-20 ~ 70	73-1262-ND‡	51.74	38.32	F-51851GNFJ-SLW-AEN
Inverters for CCFL Backlighting (Converts 12VDC ~ 900VAC 30kHz) — RoHS Compliant													
Inverter for use with CCFL Backlit Graphic Modules										289-1027-ND	15.12	—	BXA-24529

* At backlight surface ◆ ***RoHS Compliant*** ‡ Highly reflective background

TFT LCD Modules

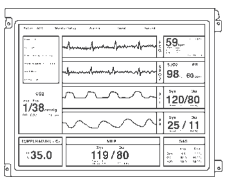

Size (Inch)	Dot Format	Dimension W x H x D (mm)	Inter-face	Lum-inance	Contrast Ratio	Vertical Viewing Angle	Horiz. Viewing Angle	Oper. Temp. (°C)	Digi-Key Part No.	Price Each		Optrex Part No.
										1	100	
2.2	176 x RGB x 220	40.8 x 55 x 3.6	CMOS	120	100:1	-50/50	-50/40	-20 ~ 70	73-1324-ND◆	55.33	40.00	T-51570GD022J-MLW-AGN
6.5	640 x RGB x 480	158 x 120.36 x 11.55	CMOS	400	300:1	-60/30	±55	-25 ~ 75	73-1322-ND◆	228.72	187.68	T-51750GD065J-FW-ADN
6.5	640 x RGB x 480	158 x 120.36 x 10.75	CMOS	400	300:1	-30/60	±55	-25 ~ 75	73-1320-ND◆	270.15	221.67	T-51750GD065J-FW-AFN
8.4	1024 x RGB x 768	205 x 152.4 x 11.3	LVDS	300	400:1	-50/60	±65	-20 ~ 70	73-1276-ND◆†	425.94	357.04	T-51639D084JU-FW-A-AB
12.1	800 x RGB x 600	280 x 210 x 12	TTL	400	500:1	-75/45	±65	-20 ~ 70	73-1229-ND◆	335.25	275.08	T-51512D121J-FW-A-AB
12.1	1024 x RGB x 768	280 x 210 x 12	LVDS	320	550:1	-50/40	±60	-20 ~ 70	73-1244-ND	400.41	335.64	T-51756D121J-FW-A-AA
12.1	800 x RGB x 600	280 x 210 x 12	LVDS	350	500:1	-75/45	±65	-20 ~ 70	73-1245-ND◆†	335.25	275.08	T-51866D121J-FW-A-AA
15.0	1024 x RGB x 768	326 x 255 x 15.5	TTL	300	450:1	-60/50	±75	0 ~ 50	73-1230-ND◆	398.30	333.88	T-51511D150-FW-A-AC
15.0	1024 x RGB x 768	326 x 255 x 15.9	LVDS	250	450:1	-60/50	±75	-20 ~ 70	73-1277-ND◆†	455.11	381.49	T-51863D150J-FW-A-AA
15.0	1024 x RGB x 768	326 x 255 x 15.9	LVDS	450	450:1	-60/50	±75	-20 ~ 70	73-1278-ND◆†	488.32	409.33	T-51863D150J-FW-A-AE
15.0	1024 x RGB x 768	326 x 255 x 15.9	LVDS	400	350:1	-80/70	±85	-20 ~ 70	73-1279-ND◆†	543.02	455.18	T-51863D150J-FW-A-AD

◆ ***RoHS Compliant*** † Natural Color Matrix (NCM) Technology

TFT LCD ToolKITS™

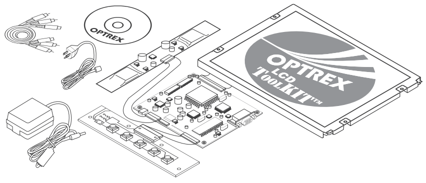

ToolKITS Include: • TFT Panel • Controller Board • Backlight Inverter • Inverter Cable • Power Supply • VGA Cable • Video Input Cable • CD-ROM

Note: *ToolKITS support VGA, composite video, and S-video interfaces*

Description	Digi-Key Part No.	Price Each	Optrex Part No.
8.4" XGA LCD ToolKIT	73-1281-ND	834.92	TK084X01
8.4" VGA LCD ToolKIT	73-1319-ND◆	766.27	TK084V01
15.0" XGA LCD ToolKIT	73-1283-ND◆	853.04	TK150X03

◆ ***RoHS Compliant***

Character LCD Modules

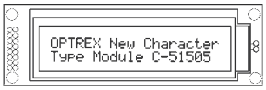

FEATURES:

- Interface with 8-bit or 4-bit MPU is available
- 192 kinds of characters, numerals, symbols and special characters can be displayed by built-in character generator (ROM)
- Other preferred characters can be displayed by character generator (RAM)
- Various functions of instruction available by programming: clear display, cursor at home, on/off cursor, blink character, shift display, shift cursor, read/write display data, etc.
- Compact and lightweight design
- Low power consumption

Dot Format	LCD Mode	Character Format	Outline Dimension W x H x D (mm)	Viewing Area	Backlight	Luminance ‡	Contrast Ratio	Operating Temperature (°C)	Digi-Key Part No.	Price Each 1	100	Optrex Part No.
Super-Twisted Nematic (STN) LCD Modules with LED Backlighting												
16 x 1	Yellow/Dark Blue	5 x 8	80 x 36 x 15	64.5 x 13	Yellow LED	80	8:1	0 ~ 50	73-1292-ND	22.10	16.38	DMC-16105NY-LY-ANN
16 x 2	Yellow/Dark Blue	5 x 8	88 x 34 x 16.1	59.5 x 16	Yellow LED	35	8:1	0 ~ 50	73-1287-ND	19.60	14.52	DMC-16205NY-LY-BGN
16 x 2	Yellow/Dark Blue	5 x 7 + cursor	122 x 44 x 14.6	99 x 24	Yellow LED	70	8:1	0 ~ 50	73-1296-ND	23.90	17.67	DMC-16230NY-LY-DQE-EDN
20 x 4	Yellow/Dark Blue	5 x 8	98.5 x 61 x 15.6	76 x 25.2	Yellow LED	60	8:1	0 ~ 50	73-1300-ND	31.48	23.32	DMC-20481NY-LY-AZE-BJN
Transmissive Character Displays												
16 x 2	Yellow/Dark Blue	5 x 8	84 x 45 x 15.1	61 x 16	Yellow LED	55	10:1	0 ~ 50	73-1293-ND	17.91	13.26	DMC-16202NY-LY-AZE-BJN
16 x 2	Yellow/Dark Blue	5 x 7	122 x 44 x 14.6	99 x 24	Yellow LED	60	12:1	0 ~ 50	73-1297-ND	27.60	20.45	DMC-16230NY-LY-DZE-EEN
16 x 2	Black/White	5 x 8	122 x 44 x 14.6	99.6 x 24.5	White LED	70	60:1	-20 ~ 70	73-1254-ND	30.34	22.36	C-51848NFQJ-LW-AAN
20 x 2	Yellow/Dark Blue	5 x 8	116 x 37 x 15.7	83 x 18.6	Yellow LED	40	12:1	0 ~ 50	73-1286-ND	22.38	16.58	DMC-20261NY-LY-CCE-CMN
20 x 2	Yellow/Dark Blue	5 x 8	116 x 37 x 15.7	83 x 18.6	Yellow LED	40	5:1	-20 ~ 70	73-1299-ND	20.94	15.51	DMC-20261NYJ-CDE-CKN
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	White LED	125	80:1	-20 ~ 70	73-1291-ND	25.48	18.88	C-51505NFQJ-LW-ALN
20 x 2	Neutral/Blue	5 x 8	116 x 37 x 15.6	83 x 18.6	Blue LED	38	80:1	-20 ~ 70	73-1289-ND	25.06	18.56	C-51505NFQJ-LB-AJN
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	Green LED	160	80:1	-20 ~ 70	73-1290-ND	24.71	18.30	C-51505NFQJ-LG-AKN
20 x 4	Yellow/Dark Blue	5 x 8	98.5 x 61 x 15.6	76 x 25.2	Yellow LED	60	12:1	0 ~ 50	73-1301-ND	31.66	23.46	DMC-20481NY-LY-BAE-BKN
20 x 4	Black/White	5 x 8	98.5 x 61 x 15.6	76 x 25.2	White LED	70	60:1	-20 ~ 70	73-1251-ND	27.91	20.57	C-51847NFQJ-LW-AAN
40 x 2	Yellow/Dark Blue	5 x 8	182 x 34.5 x 15.1	147.5 x 11.5	Yellow LED	55	12:1	0 ~ 50	73-1302-ND	40.04	29.66	DMC-40202NY-LY-ARE-AZN
40 x 2	Black/White	5 x 8	182 x 34.5 x 15.1	153.5 x 17.5	White LED	70	60:1	-20 ~ 70	73-1260-ND	43.81	32.29	C-51850NFQJ-LW-AAN
40 x 4	Yellow/Dark Blue	5 x 8	190 x 54 x 13.6	147 x 29.5	Yellow LED	50	5:1	0 ~ 50	73-1303-ND	84.63	62.69	DMC-40457NY-LY-B-CKN
Transflective Character Display												
16 x 2	Winter White/Black	5 x 8	122 x 44 x 14.6	99.6 x 24.5	LED	40	5:1	-20 ~ 70	73-1252-ND◊	23.75	17.50	C-51848NFJ-SLW-ADN
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	White LED	125	5:1	-20 ~ 70	73-1288-ND	22.21	16.45	C-51505NFJ-SLW-AIN
20 x 4	Winter White/Black	5 x 8	98.5 x 61 x 15.6	76 x 25.2	LED	40	5:1	-20 ~ 70	73-1249-ND◊	26.66	19.65	C-51847NFJ-SLW-ADN
40 x 2	Winter White/Black	5 x 8	182 x 34.5 x 15.1	153.5 x 17.5	LED	40	5:1	-20 ~ 70	73-1258-ND◊	38.93	28.69	C-51850NFJ-SLW-ADN

‡ Luminance measured at backlight surface ◊ Highly reflective background

Graphical LCD Kits and OS Chips

3.8" Starter Kit (STK-GT380):

The Starter Kit supersedes STK-GT320. It includes a 3.8" module QVGA monochrome display with a six ultrabright LED backlight, a fully integrated analog touch panel, and integrated Amulet Compiler Software, a serial cable, stylus, and 5vDC power supply.

5.7" On-Board Starter Kit (STK-AOB3202405):

The Starter Kit includes a 5.7" Amulet-on-Board Module with integrated touch screen and LED backlight. In addition, you will receive the Amulet compiler software, serial cable, program interface board, 5V power supply and stylus.

Graphical OS Chip (AGB64LV01-QC-E):

The chip is a combination microprocessor, LCD controller, and graphics library. The chip renders GUI pages containing graphic images, Amulet Widgets, and other UI objects directly to the LCD. This allows an embedded micro to do its job more efficiently. Thus, the main application can run on a smaller processor with less RAM and ROM. User interface pages are quickly and easily created using off the shelf HTML editors.

Description	Digi-Key Part No.	Price Each	Amulet Technologies Part No.
3.8" Module Starter Kit	681-1000-ND◆	329.00	STK-GT380
5.7" Onboard Module Starter Kit	681-1001-ND◆	399.00	STK-AOB3202405
3.8" Kit Module with FSTN Monochrome, Black on White Display	681-1015-ND ***NEW!***	239.00	MK-GT380N
3.8" Kit Module with FSTN Transflective Display	681-1003-ND	239.00	MK-GT380T
5.7" Onboard Module STN Blue Negative	681-1004-ND◆	279.00	MK-AOB3202405B
5.7" Onboard Module FSTN Positive Transflective	681-1005-ND◆	279.00	MK-AOB3202405T
5.7" Onboard Module FSTN Negative Transmissive	681-1006-ND◆	279.00	MK-AOB3202405N
Program Interface Board	681-1007-ND	30.00	PIB-1
5V Power Supply for Onboard Module	681-1008-ND◆	10.00	SAD105-SF5C
Board Interface Onboard RS232	681-1009-ND◆	27.00	AOB-1BRS232
5.7" Controller Board	681-1010-ND	179.00	CB-GT570
Compiler Software	681-1011-ND◆	99.00	UHT-CS1
Bezel Kit for MK-AOB3202405x	681-1012-ND◆	24.95	BZ-AOB5
IC Graphical OS Chip 80-PQFP	681-1013-ND◆	30.00	AGB64LV01-QC-E
Pen Stylus	681-1014-ND◆	6.00	7010001

◆ ***RoHS Compliant***

VARITRONIX LCDs

Reflective and Transflective (Transflective Denoted by “FC” in Varitronix Part No.)

Features: • Long Life/High Reliability • Excellent Optical Quality • High Contrast Ratio • Wide Viewing Angle • Large Useful Viewing Area • Fast Response • Low Power Consumption

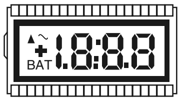

Electrical/Optical Char.	Static	HV†	Units
Oper. Temperature Range	-10°~ 60°	10°~ 60°	C
Operational Voltage, RMS	3.0	3.9 - 47	V-RMS
Drive Frequency	30-300	60-300	Hz
Current Consumption	15	15	nA/mm^2
Turn-On Time	120	80	ms
Turn-Off Time	100	80	ms

Format	No. Of Digits	Digit Size (mm)	Type (mm)	Conn. No. Of Pins	Dual Row Spacing (mm)	Driver ICs (Not Included) (Applies to both P/N)	Matching Bezel ‡	Digi-Key Part No.	Price Each			Varitronix Part No.
									1	5	10	
7 Segment Displays												
	2	12.70	2.54 Dip	18	30.50	4543B(2)	PRD180LPW-ND	153-1003-ND	2.88	2.67	2.39	VI-201-DP-RC-S
							PRD180LPW-ND	153-1002-ND◊	2.88	2.67	2.39	VI-201-DP-FC-S
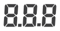	3	8.89	2.54 Dip	24	22.86	OKI MSM58292, HD61603	N/A	153-1101-ND◆	4.20	3.89	3.49	VI-321-DP-RC-S
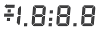	3.5	8.89	2.54 Dip	40	25.40	IC7106	N/A	153-1134-ND◆	3.22	2.98	2.68	VI-301-DP-RC-S
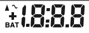	3.5	12.70	2.54 Dip	40	30.48	4543B(4)	PRD180LP-ND	153-1005-ND◆	4.92	4.56	4.09	VI-322-DP-RC-S
							PRD180LP-ND	153-1004-ND◊	4.92	4.56	4.09	VI-322-DP-FC-S
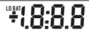	3.5	12.70	2.54 Dip	40	30.50	4543B(4)	PRD180LP-ND	153-1023-ND◆	4.92	4.56	4.09	VI-302-DP-RC-S
							PRD180LP-ND	153-1022-ND◊	4.92	4.56	4.09	VI-302-DP-FC-S
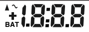	3.5	17.80	2.54 Dip	40	38.00	4543B(4)	N/A	153-1015-ND	10.88	10.07	9.03	VI-319-DP-RC-S
								153-1014-ND◊	10.88	10.07	9.03	VI-319-DP-FC-S
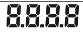	4	12.70	2.54 Dip	20	30.48	—	PRD180LP-ND	153-1046-ND◆†	4.54	4.20	3.77	VIM-404-DP-RC-S-H
							PRD180LP-ND	153-1047-ND†◊	4.54	4.20	3.77	VIM-404-DP-FC-S-HV
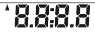	4	12.70	2.54 Dip	40	30.48	4543B(4)	PRD180LP-ND	153-1007-ND◆	4.92	4.56	4.09	VI-422-DP-RC-S
							PRD180LP-ND	153-1006-ND◊	4.92	4.56	4.09	VI-422-DP-FC-S
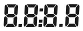	4	8.89	2.54 Dip	40	22.86	—	N/A	153-1102-ND◆	3.22	2.98	2.68	VI-401-DP-RC-S
		12.70	2.54 Dip	40	30.50	HD61603		153-1103-ND◆	3.88	3.59	3.22	VI-402-DP-FC-S
		12.70	2.54 Dip	40	30.50	HD61603		153-1104-ND◆	4.18	3.87	3.47	VI-402-DP-FH-W
		12.70	2.54 Dip	40	25.40	—		153-1135-ND◆	3.88	3.59	3.22	VI-402-DP-RC-S
		17.80	2.54 Dip	40	38.10	—		153-1105-ND◆	8.44	7.81	7.01	VI-415-DP-FH-W
	4	17.80	2.54 Dip	40	38.10	4543B(4)	N/A	153-1017-ND	10.24	9.48	8.50	VI-415-DP-RC-S
								153-1016-ND◊	10.24	9.48	8.50	VI-415-DP-FC-S
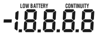	4.5	10.16	2.54 Dip	30	30.48	ICL7129A	PRD180LP-ND	153-1054-ND†	4.38	4.06	3.64	VIM-503-DP-RC-S-HV
							PRD180LP-ND	153-1055 -ND†◊	4.38	4.06	3.64	VIM-503-DP-FC-S-HV
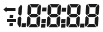	4.5	10.20	2.54 Dip	40	30.50	4543B(5)	PRD180LP-ND	153-1009-ND	4.92	4.56	4.09	VI-502-DP-RC-S
							PRD180LP-ND	153-1008-ND◊	4.92	4.56	4.09	VI-502-DP-FC-S
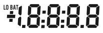	4.5	10.20	2.54 Dip	40	30.48	4543B(5)	PRD180LP-ND	153-1025-ND	4.92	4.56	4.09	VI-509-DP-RC-S
							PRD180LP-ND	153-1024-ND◊	4.92	4.56	4.09	VI-509-DP-FC-S
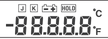	5	10.00	2.54 Dip	28	30.00	—	N/A	153-1109-ND◆	4.80	4.44	3.99	VIM-516-DP-RC-S-LV
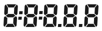	5	10.16	2.54 Dip	40	30.48	4543B(5)	PRD180LP-ND	153-1019-ND◆	4.92	4.56	4.09	VI-508-DP-RC-S
							PRD180LP-ND	153-1018-ND◊	4.92	4.56	4.09	VI-508-DP-FC-S
	5	10.16	2.54 Dip	40	30.48	—	N/A	153-1106-ND◆	4.18	3.87	3.47	VI-508-DP-FH-W
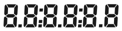	6	12.70	2.54 Dip	50	30.48	4543B(6)	PRD250LP-ND	153-1011-ND◆	7.46	6.90	6.20	VI-602-DP-RC-S
							PRD250LP-ND	153-1010-ND◊	7.46	6.90	6.20	VI-602-DP-FC-S
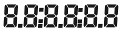	6	17.80	2.54 Dip	50	38.10	4543B(6)	N/A	153-1021-ND	14.94	13.82	12.40	VI-607-DP-RC-S
								153-1020-ND◊	14.94	13.82	12.40	VI-607-DP-FC-S
	6	25.40	2.54 Dip	70	45.72	—	N/A	153-1108-ND◆	20.10	18.60	16.69	VI-611-DP-FH-W
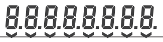	8	9.00	2.54 Dip	30	25.00	—	N/A	153-1112-ND◆	4.74	4.39	3.94	VIM-838-DP-RC-S-LV-6
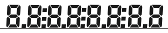	8	12.70	2.54 Dip	42	30.48	—	PRD360LP-ND	153-1056-ND◆†	11.30	10.46	9.38	VIM-808-DP-RC-S-HV
							PRD360LP-ND	153-1057-ND†◊	11.30	10.46	9.38	VIM-808-DP-FC-S-HV
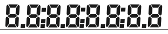	8	12.72	2.54 Dip	68	30.48	4543B(8)	PRD360LP-ND	153-1013-ND	12.36	11.44	10.26	VI-804-DP-RC-S
							PRD360LP-ND	153-1012-ND◊	12.36	11.44	10.26	VI-804-DP-FC-S
Alphanumeric Displays — RoHS Compliant												
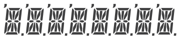	8	7.00	2.54 Dip	36	22.00	—	N/A	153-1113-ND	2.92	2.71	2.43	VIM-878-DP-FC-S-LV
								153-1114-ND	2.92	2.71	2.43	VIM-878-DP-RC-S-HV
								153-1115-ND	2.92	2.71	2.43	VIM-878-DP-RC-S-LV
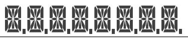	8	9.00	2.54 Dip	36	25.00	—	N/A	153-1110-ND	4.74	4.39	3.94	VIM-828-DP13.2-RC-S-LV
								153-1111-ND	5.14	4.76	4.27	VIM-828-DP5.7-6-HV-RH-W

◆ ***RoHS Compliant*** ‡ Bezels can be found under PRD Plastics in the manufacturer index. † Multiplexed Display ◊ Transflective

Backlight For Transflective LCDs

Overall Size (mm) L x W x H	Active Size (mm) LE x WE	Forward Current mA at 4.1V		Digi-Key Part No.	Price Each			Varitronix Part No.
		Typical	Maximum		1	5	10	
56.3 x 19.5 x 3.5	49 x 12	70	140	153-1026-ND	7.30	6.76	6.06	LED4-16264
75 x 26.6 x 3.8	60 x 22	135	270	153-1027-ND	11.20	10.36	9.30	LED4-20464B
94 x 24 x 4	84 x 19	180	360	153-1028-ND	9.50	8.79	7.89	LED4-20265
74 x 36.5 x 3	74 x 34	60	—	153-1131-ND	5.20	4.81	4.32	KIT-LED-41
110 x 28 x 4.8	101 x 23	—	420	153-1132-ND	5.80	5.37	4.82	KIT-LED-06
70 x 20.5 x 4.1	64 x 17.5	90	—	153-1133-ND◆	4.00	3.70	3.32	LED4G-16265

◆ ***RoHS Compliant***

LCD Modules

Features: Character Format: 5 x 8 dot. All the LCD’s listed use a SAMSUNG controller P/N KS0066.

Display Format	Matching Bezel ‡	Pad Layout	Outline Dim. (mm) W x H x D	Display Area Dim. (mm) W x H	Character Size W x H (mm)	Dot Size (mm) W x H	Operating Temperature (°C)	Storage Temperature (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each			Varitronix Part No.
											1	5	10	
Standard LCD														
16 x 1	PRD250LPW1-ND	Top	80 x 36 x 11	64.5 x 13.8	3.15 x 6.3	.55 x .70	-5 ~ 50	-20 ~ 60	5	153-1077-ND	10.98	10.16	9.12	MDL-16166-SS-LV
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 10	61.0 x 15.8	2.95 x 5.55	.55 x .65	-5 ~ 50	-20 ~ 60	5	153-1078-ND	13.30	12.31	11.04	MDL-16265-SS-LV
Supertwist LCD Module														
8 x 1	PRD250LPW-ND	Bottom	84 x 44 x 11	61 x 15.8	6.45 x 10.75	1.25 x 1.30	-5 ~ 50	-20 ~ 60	5	153-1080-ND	17.20	15.91	14.28	MDLS-81809-SS-LV-G
8 x 2	N/A	Top	33.7 x 44.4 x 10	26.5 x 12.2	2.10 x 3.39	.38 x .38	-5 ~ 50	-20 ~ 60	5	153-1130-ND◆	10.00	9.25	8.30	MDLS-82603-LV-G
16 x 1	PRD250LPW1-ND	Top	80 x 36 x 11	64.5 x 13.8	3.15 x 6.3	.55 x .70	-5 ~ 50	-20 ~ 60	5	153-1081-ND	12.16	11.25	10.10	MDLS-16166-SS-LV-G
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 10	61 x 15.8	2.95 x 5.55	.55 x .65	-5 ~ 50	-20 ~ 60	5	153-1082-ND	14.22	13.16	11.81	MDLS-16265-SS-LV-G
16 x 4	N/A	Top	87 x 60 x 10	61.8 x 25.2	2.95 x 4.75	.55 x .55	-5 ~ 50	-20 ~ 60	5	153-1083-ND	29.10	26.92	24.16	MDLS-16465-SS-LV-G
20 x 1	N/A	L. Side	182 x 33.5 x 11	154 x 15.3	6.7 x 11.50	1.30 x 1.30	-5 ~ 50	-20 ~ 60	5	153-1084-ND	33.42	30.92	27.74	MDLS-20189-SS-LV-G
20 x 2	PRD360LPW-ND	L. Side	116 x 37 x 11	83 x 18.6	3.2 x 5.55	.60 x .65	-5 ~ 50	-20 ~ 60	5	153-1085-ND	20.88	19.32	17.33	MDLS-20265-SS-LV-G
20 x 4	N/A	Top	98 x 60 x 12	76 x 25.2	2.9 x 4.7	.50 x .50	-5 ~ 50	-20 ~ 60	5	153-1086-ND	29.20	27.01	24.24	MDLS-20464-SS-LV-G
20 x 4	N/A	Top	98 x 60 x 12	76 x 25.2	2.9 x 4.7	.42 x .46	-5 ~ 50	-20 ~ 60	5	153-1127-ND	20.00	18.50	16.60	MDLS-20464-LV-S
24 x 2	PRD360LPW1-ND	L. Side	118 x 36 x 10	93.5 x 15.8	3.2 x 5.15	.60 x .60	-5 ~ 50	-20 ~ 60	5	153-1087-ND	22.96	21.24	19.06	MDLS-24265-SS-LV-G

◆ ***RoHS Compliant*** ◊ The LED chips are distributed over the whole lit area, bonded in a pattern which gives the most uniform illumination. Power connection is made by two solder holes, marked "A" for +5V and "K" for Ground. ‡ Bezels can be found under PRD Plastics in the manufacturer index. † 16 Pin Version

(Continued)

VARITRONIX LCD Modules *(Cont.)*

Display Format	Matching Bezel‡	Pad Layout	Outline Dim. (mm) W x H x D	Display Area Dim. (mm) W x H	Character Size W x H (mm)	Dot Size (mm) W x H	Operating Temperature (°C)	Storage Temperature (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	5	10	Varitronix Part No.
24 x 2	N/A	L. Side	190 x 42 x 11	159.3 x 23	5.4 x 8.7	1.0 x 1.0	-20 ~ 70	-30 ~ 80	5	153-1128-ND	8.00	7.40	6.64	MDLS-24269-HT-HV-S
40 x 2	N/A	L. Side	182 x 33.5 x 11	154.0 x 15.8	3.15 x 5.50	.55 x .60	-5 ~ 50	-20 ~ 60	5	153-1088-ND	37.84	35.01	31.41	MDLS-40266-SS-LV-G
40 x 4	N/A	L. Side	196 x 56 x 11	154.4 x 27.6	3.15 x 5.50	.55 x .60	-10 ~ 60	-20 ~ 70	+5/-5	153-1089-ND	66.24	61.28	54.98	MDLS-40466-SS-G-HV
Supertwist LCD Module with LED Backlighting														
8 x 1	PRD250LPW-ND	Bottom	84 x 44 x 15	61.0 x 15.8	6.45 x 10.75	1.25 x 1.30	-5 ~ 50	-20 ~ 60	5	153-1090-ND◊	24.24	22.43	20.12	MDLS-81809-SS-LV-G-LED-04-G
16 x 1	PRD250LPW1-ND	Top	80 x 36 x 14	64.5 x 13.8	3.15 x 6.30	.55 x .70	-5 ~ 50	-20 ~ 60	5	153-1091-ND◊	18.44	17.06	15.31	MDLS-16166-SS-LV-G-LED-04-G
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 14	61.0 x 15.8	2.95 x 5.55	.55 x .65	-5 ~ 50	-20 ~ 60	5	153-1092-ND	18.88	17.47	15.67	MDLS-16265-SS-LV-G-LED-04-G-14
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 14	61.0 x 15.8	2.95 x 5.55	.55 x .65	-5 ~ 50	-20 ~ 60	5	153-1093-ND†	18.88	17.47	15.67	MDLS-16265-SS-LV-G-LED-04-G-16
16 x 2	N/A	Top	53 x 20 x 8	36 x 10	1.85 x 3.15	.33 x .35	-5 ~ 50	-20 ~ 60	5	153-1116-ND	14.90	13.79	12.37	MDLS-16263-C-LV-G-LED01G-FFC
16 x 2	N/A	Top	53 x 20 x 8	36 x 10	1.85 x 3.15	.33 x .35	-5 ~ 50	-20 ~ 60	5	153-1117-ND	20.00	18.50	16.60	MDLS-16263-C-LV-G-LED04G
16 x 2	N/A	Bottom	65.5 x 36.7 x 14	48.6 x 12	2.54 x 4.07	.46 x .43	-5 ~ 50	-20 ~ 60	5	153-1118-ND◆	17.40	16.10	14.45	MDLS-16264-SS-LV-G-LED04G
16 x 2	N/A	Top	80 x 36 x 13	61 x 15.8	2.95 x 5.55	.55 x .65	-5 ~ 50	-20 ~ 60	5	153-1119-ND◆	18.88	17.47	15.67	MDLS-16265B-SS-LV-G-LED04G
16 x 2	N/A	Top	122 x 43 x 15	99 x 23	4.84 x 9.22	.92 x 1.10	-5 ~ 50	-20 ~ 60	5	153-1136-ND◆	32.40	29.97	26.90	MDLS-16268B-ST-LV-NEGBLUE-LED04G
16 x 2	N/A	Bottom	122 x 44 x 15	99 x 23	4.84 x 9.22	.92 x 1.10	-5 ~ 50	-20 ~ 60	5	153-1121-ND◆	32.40	29.97	26.90	MDLS-16268C-SS-LV-G-LED04G
16 x 4	N/A	Top	87 x 60 x 13	61.8 x 25.2	2.95 x 4.75	.55 x .55	-5 ~ 50	-20 ~ 60	5	153-1094-ND◊	34.72	32.12	28.82	MDLS-16465-SS-LV-G-LED-04-G
20 x 1	N/A	L. Side	182 x 33.5 x 14.5	154 x 15.3	6.7 x 11.50	1.30 x 1.30	-5 ~ 50	-20 ~ 60	5	153-1095-ND◊	46.42	42.94	38.53	MDLS-20189-SS-LV-G-LED-04-G
20 x 2	PRD360LPW-ND	L. Side	116 x 37 x 14	83.0 x 18.6	3.2 x 5.55	.60 x .65	-5 ~ 50	-20 ~ 60	5	153-1096-ND◊	27.42	25.37	22.76	MDLS-20265-SS-LV-G-LED-04-G
20 x 2	N/A	Top	65 x 20 x 8	46 x 10	1.85 x 3.15	.33 x .35	-5 ~ 50	-20 ~ 60	5	153-1123-ND◆	23.70	21.93	19.68	MDLS-20263-C-LV-G-LED01G
20 x 2	N/A	L. Side	116 x 37 x 11	83 x 18.6	3.2 x 5.55	.60 x .65	-20 ~ 70	-30 ~ 80	5	153-1124-ND	32.00	29.60	26.56	MDLS-20265-HT-HV-FSTN-LEDW
20 x 4	N/A	Top	98 x 60 x 14	76.0 x 25.2	2.9 x 4.7	.50 x .50	-5 ~ 50	-20 ~ 60	5	153-1097-ND◊	37.48	34.67	31.11	MDLS-20464-SS-LV-G-LED-04-G
20 x 4	N/A	Top	65 x 28.4 x 8	46 x 18.4	1.85 x 3.15	.33 x .35	-5 ~ 50	-20 ~ 60	5	153-1125-ND◆	37.80	34.97	31.38	MDLS-20433-C-LV-G-LED01G
20 x 4	N/A	Top	77 x 47 x 13	60 x 22	2.3 x 4.03	.42 x .46	-5 ~ 50	-20 ~ 60	5	153-1126-ND◆	36.00	33.30	29.88	MDLS-20464B-LV-G-LED04G
24 x 2	PRD360LPW1-ND	L. Side	118 x 36 x 13.4	93.5 x 15.8	3.2 x 5.15	.60 x .60	-5 ~ 50	-20 ~ 60	5	153-1098-ND◊	30.28	28.01	25.14	MDLS-24265-SS-LV-G-LED-04-G
40 x 2	N/A	L. Side	182 x 33.5 x 14	154.0 x 15.8	3.15 x 5.50	.55 x .60	-5 ~ 50	-20 ~ 60	5	153-1099-ND	51.28	47.44	42.57	MDLS-40266-SS-LV-G-LED-04-G
40 x 2	N/A	Top	108 x 20 x 12	89 x 10	1.85 x 3.15	.33 x .35	-20 ~ 70	-30 ~ 80	5	153-1129-ND◆	110.20	101.94	91.47	MDLS-40263-C-HT-HV-FSTN-LED3G
40 x 4	N/A	L. Side	196 x 56 x 14	154.4 x 27.6	3.15 x 6.30	.55 x .60	-10 ~ 60	-20 ~ 70	+5/-5	153-1100-ND	81.64	75.52	67.77	MDLS-40466-SS-G-HV-LED-04-G

◆ ***RoHS Compliant*** ◊ The LED chips are distributed over the whole lit area, bonded in a pattern which gives the most uniform illumination. Power connection is made by two solder holes, marked "A" for +5V and "K" for Ground. ‡ Bezels can be found under PRD Plastics in the manufacturer index. † 16 Pin Version

Serial/I²C LCD, VFD and PLED Displays

Specifications:
Standard Voltage: 4.75V ~ 5.25V **LCD Type:** • Covers most of the popular LCD configurations. Control of these modules has been simplified to a set of commands delivered to the modules via RS232 and I²C communications protocols. **VFD Type:** • Brightest of all displays • Performance is not affected by temperature. **PLED Type:** • Self-luminous displays that do not require backlighting • Use much less power than a traditional LCD or VFD • 160-degree viewing angle

Additional options for increased voltage and higher operating temperatures are available. For pricing, options and availability, visit our website.

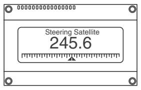

Display Format	Type	Background Color	Text Color	Viewing Area (mm)	Operating Temperature	Digi-Key Part No.	Price Each 1	50	Matrix Orbital Part No.
8 x 2	LCD	Yellow/Green	Black	38.0 x 16.0	0°C ~ 50°C	635-1009-ND	39.95	38.03	LCD0821
16 x 2	LCD	Yellow/Green	Black	64.5 x 15.5	0°C ~ 50°C	635-1010-ND	49.95	47.51	LK162-12
		Cool Blue	Blue	64.5 x 15.5	0°C ~ 50°C	635-1011-ND	49.95	47.51	LK162-12-GW
		Blue	White	64.5 x 15.5	0°C ~ 50°C	635-1012-ND	49.95	47.51	LK162-12-WB
		Black	Yellow	64.5 x 15.5	0°C ~ 50°C	635-1027-ND	50.10	47.51	LK162-12-IY
		Black	Red	64.5 x 15.5	0°C ~ 50°C	635-1013-ND	49.95	47.51	LK162-12-R
	VFD	—	Blue/Green	51.4 x 11.4	-20°C ~ 70°C	635-1014-ND	69.95	64.16	VK162-12
20 x 2	LCD	Yellow/Green	Black	83.0 x 18.6	0°C ~ 50°C	635-1016-ND	59.95	57.34	LK202-25
		Cool Blue	Blue	83.0 x 18.6	0°C ~ 50°C	635-1017-ND	59.95	57.34	LK202-25-GW
		Blue	White	83.0 x 18.6	0°C ~ 50°C	635-1018-ND	59.95	57.34	LK202-25-WB
		Black	Yellow	83.0 x 18.6	0°C ~ 50°C	635-1028-ND	59.95	57.34	LK202-25-IY
	VFD	—	Blue/Green	89.8 x 11.5	-20°C ~ 70°C	635-1020-ND	89.95	83.66	VK202-25
20 x 4	LCD	Yellow/Green	Black	76.0 x 25.2	0°C ~ 50°C	635-1022-ND	69.95	68.02	LK204-25
		Cool Blue	Blue	76.0 x 25.2	0°C ~ 50°C	635-1023-ND	69.95	68.02	LK204-25-GW
		Blue	White	76.0 x 25.2	0°C ~ 50°C	635-1024-ND	69.95	68.02	LK204-25-WB
		Black	Yellow	76.0 x 25.2	0°C ~ 50°C	635-1029-ND	69.95	68.02	LK204-25-IY
		Black	Red	76.0 x 25.2	0°C ~ 50°C	635-1025-ND	69.95	68.02	LK204-25-R
	VFD	—	Blue/Green	70.8 x 20.9	-20°C ~ 70°C	635-1026-ND	125.00	119.34	VK204-25

Serial/I²C Graphic Displays

Additional options for increased voltage and higher operating temperatures are available. For pricing, options and availability, visit our website.

Control of these modules has been simplified to a set of commands delivered to the modules via RS232 and I²C communications protocols.

Specifications: Standard Voltage: 4.75V ~ 5.25V

Features: • Download fonts of any size, style or language • Create graphics using bitmaps, pixels, lines, rectangles and bar graphs

Display Format	Type	Background Color	Text Color	Viewing Area (mm)	Operating Temperature	Digi-Key Part No.	Price Each 1	50	Matrix Orbital Part No.
122 x 32	LCD	White	Blue	60.2 x 18.0	0°C ~ 50°C	635-1000-ND	74.95	68.45	GLK12232-25-SM
		Blue	White	60.2 x 18.0	0°C ~ 50°C	635-1001-ND	74.95	68.45	GLK12232-25-SM-WB
		White	Blue	76.0 x 25.2	0°C ~ 50°C	635-1002-ND	79.95	76.05	GLK12232-25-WBL
		White	Black	76.0 x 25.2	0°C ~ 50°C	635-1030-ND ***NEW!***	79.95	78.01	GLK12232-25-FGW
240 x 64	LCD	Yellow/Green	Black	132.0 x 39.0	0°C ~ 50°C	635-1003-ND	169.50	154.28	GLK24064-25
		White	Grey	132.0 x 39.0	0°C ~ 50°C	635-1004-ND	169.50	154.28	GLK24064-25-GW
		Blue	White	132.0 x 39.0	0°C ~ 50°C	635-1005-ND	169.50	154.28	GLK24064-25-WB
240 x 128	LCD	Yellow/Green	Black	114.0 x 64.0	0°C ~ 50°C	635-1006-ND	224.95	213.65	GLK240128-25
		White	Grey	114.0 x 64.0	0°C ~ 50°C	635-1007-ND	224.95	213.65	GLK240128-25-GW
		Blue	White	114.0 x 64.0	0°C ~ 50°C	635-1008-ND	224.95	213.65	GLK240128-25-WB

NEWHAVEN DISPLAY INTERNATIONAL Vacuum Fluorescent Displays

Newhaven Display provides the North American marketplace with cost effective high quality devices ranging from LCD to VFD.

Display Format	Type	Character Height (mm)	Module Size (mm)	Font Type	Digi-Key Part No.	Price Each	Newhaven Display Part No.
6 x 1	VFD Glass	20.00	130.0 x 43.0 x 8.5	7-Segment	D0106LT-43-0601-ND	22.50	D0106LT-43-0601
7 x 1		9.70	112.0 x 25.0 x 6.8	7-Segment	D0109MT-25-1101-ND	11.25	D0109MT-25-1101
9 x 1		11.00	205.0 x 29.0 x 8.0	7-Segment	D0119LT-29-1901-ND	27.00	D0119LT-29-1901
16 x 1		13.00	110.2 x 20.5 x 6.5	Alphanumeric	D0116SY-20-1601FB-ND	9.45	D0116SY-20-1601FB
20 x 1		6.50	134.0 x 20.5 x 6.5	Alphanumeric	D0120MY-A1H-ND	7.20	D0120MY-A1H
16 x 1	VFD Module	5.00	125.0 x 35.5 x 18.0	Alphanumeric	M0116SY-161MSAR1-C-ND◊	40.95	M0116SY-161MSAR1-C
16 x 1		5.29	80.0 x 36.0 x 11.0	Dot Matrix	M0116SD-161SDBR1-1-ND	29.00	M0116SD-161SDBR1-1
16 x 2		5.34	80.0 x 36.0 x 18.0	Dot Matrix	M0216SD-162SDAR2-1-ND	30.00	M0216SD-162SDAR2-1
16 x 2		5.34	84.0 x 44.0 x 16.6	Dot Matrix	M0216SD-162SDAR8-ND	30.00	M0216SD-162SDAR8
16 x 2		9.22	122.0 x 44.0 x 20.2	Dot Matrix	M0216MD-162MDBR2-J-ND	45.00	M0216MD-162MDBR2-J
20 x 2	VFD Module	5.34	116.0 x 37.0 x 17.5	Dot Matrix	M0220SD-202SDAR1-ND	32.00	M0220SD-202SDAR1
20 x 2		8.95	146.0 x 43.0 x 19.2	Dot Matrix	M0220MD-202MDAR1-3-ND	39.00	M0220MD-202MDAR1-3
20 x 4		4.84	100.0 x 60.0 x 20.6	Dot Matrix	M0420SD-204SDAR1-3-ND	58.90	M0420SD-204SDAR1-3
20 x 4		4.87	150.0 x 64.0 x 26.5	Dot Matrix	M0420SD-204MDAR1-C-ND	63.21	M0420SD-204MDAR1-C

◊ With right angle shrouded connector

TDK DC-AC Inverters for CCFL

Input Volts	Output (Type) Volts (V)	Output (Type) I (mA)	Inverter Characteristics	Board Dimensions mm H (Max.) x W x L	Mating Connector CN1	Contacts CN1	Mating Connector CN2	Contacts CN2	Mating Connector CN3	Contacts CN3	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	TDK Part No.
Dimming Function															
4.5 ~ 6.0	1,500	6.0	4W, Single	8 x 20 x 95.5	*None Required*	*None Required*	455-1123	455-1124-1	—	—	445-1617-ND◆	27.42	24.81	20.90	CXA-L0605-VJL
5.0 ~ 12.0	900	5.0	2W, Single	6 x 16.5 x 87	WM1723	WM1142CT	455-1123	455-1124-1	—	—	445-1612-ND	25.02	22.64	19.07	CXA-K0505-VJL
10.8 ~ 13.2	1,250	5.0	8W, Dual	8.5 x 25 x 105	WM1726	WM1142CT	455-1123	455-1124-1	—	—	445-1609-ND	32.88	29.75	25.06	CXA-0308
10.8 ~ 13.2	1,250	5.0	8W, Dual	8.5 x 25 x 105	WM1726	WM1142CT	455-1123	455-1124-1	—	—	445-1611-ND	32.89	29.76	25.06	CXA-0338
9.0 ~ 19.0	1,300	5.0	5W, Dual	8 x 30 x 103	WM1726	WM1142CT	455-1123	455-1124-1	—	—	445-1610-ND	35.85	32.44	27.32	CXA-0326
8.0 ~ 20.0	1,500	5.5	7W, Dual	8 x 25.3 x 180.3	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-1626-ND	78.52	71.05	59.83	CXA-M1112-VJ
10.0 ~ 15.0	1,500	6.0	4W, Single	8 x 20 x 95.5	WM1723	WM1142CT	455-1123	455-1124-1	—	—	445-1618-ND	23.82	21.56	18.15	CXA-L0612-VJL
10.8 ~ 13.2	1,500	6.0	5W, Dual	8 x 30 x 140	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-1608-ND◆	38.13	34.50	29.06	CXA-0271
9.6 ~ 14.4	1,500	6.0	5W, Dual	8 x 18 x 140.5	WM1723	WM1142CT	455-1123	455-1124-1	455-1123	455-1124-1	445-1627-ND	37.77	34.18	28.78	CXA-M1212-RJL
9.6 ~ 14.4	1,500	6.0	7W, Dual	8 x 25.3 x 180.3	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-1633-ND	44.01	39.82	33.54	CXA-P1212-VJL
9.6 ~ 15.0	1,600	6.0	3W, Single	6 x 12 x 105.5	WM1727	WM1142CT	—	—	—	—	445-1613-ND	27.43	24.82	20.90	CXA-K0612-VSL
9.6 ~ 15.0	1,600	7.0	5W, Single	8 x 20 x 95.5	WM1727	WM1142CT	455-1123	455-1124-1	—	—	445-1620-ND	28.85	26.11	21.99	CXA-L0712-VJL
9.6 ~ 14.4	1,800	6.0	5W, Single	8 x 20 x 95.5	WM1723	WM1142CT	455-1123	455-1124-1	—	—	445-1619-ND	32.01	28.97	24.39	CXA-L0612A-VJL
10.8 ~ 13.2	1,700	6.0	8W, Dual	10 x 24 x 147	WM1725	WM1142CT	BHR-04VS-1	455-1124-1	BHR-04VS-1	455-1124-1	445-1634-ND	36.12	32.68	27.52	CXA-P1212A-WJL
10.8 ~ 13.2	1,700	6.0	8W, Dual	8.5 x 21.5 x 153	WM1725	WM1142CT	455-1123	455-1124-1	455-1123	455-1124-1	445-1635-ND◆	45.99	41.61	35.04	CXA-P1212B-WJL
10.8 ~ 13.2	1.6K	8.0	9W, Dual	8 x 25 x 180	455-1163	455-1127-1	455-1123	455-1124-1	—	—	445-1636-ND	51.72	46.80	39.41	CXA-P1612-VJL
Non-Dimming Function															
5	1,500	5	3.5W, Single	8 x 20.5 x 80.5	WM1727	WM1142CT	455-1123	455-1124-1	—	—	445-1614-ND◆	16.44	14.88	12.53	CXA-L0505-NJL
12	1,500	5	3.5W, Single	8 x 20.5 x 80.5	WM1727	WM1142CT	455-1123	455-1124-1	—	—	445-1615-ND◆	14.70	13.30	11.20	CXA-L0512-NJL
12	1,500	5	7W, Dual	8 x 20.5 x 130.5	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-1629-ND	25.05	22.67	19.09	CXA-P1012-NJL
24	1,500	5	3.5W, Single	8 x 20.5 x 80.5	WM1727	WM1142CT	455-1123	455-1124-1	—	—	445-1616-ND	16.44	14.88	12.53	CXA-L0524-NJL
Non-Dimming Function, PCB Mountable Type															
5	900	5 / 10	4.5W, Dual	16.5 x 21 x 44	—	—	—	—	—	—	445-1621-ND◆	10.26	9.29	7.82	CXA-L10A
5	1,200	5 / 10	6W, Single/Dual	16.5 x 29 x 56	—	—	—	—	—	—	445-1623-ND◆	12.27	11.11	9.35	CXA-M10A-L
5	1,500	5 / 10	8W, Dual	17 x 29 x 56	—	—	—	—	—	—	445-1630-ND◆	18.42	16.67	14.04	CXA-P10A-P
12	900	5 / 10	4.5W, Dual	16.5 x 21 x 44	—	—	—	—	—	—	445-1622-ND	10.26	9.29	7.82	CXA-L10L
12	900	7 / 14	9W, Dual	16.5 x 29 x 56	—	—	—	—	—	—	445-1637-ND◆	13.41	12.14	10.22	CXA-P20L-L
12	1,200	5 / 10	6W, Dual	16.5 x 29 x 56	—	—	—	—	—	—	445-1624-ND	12.27	11.11	9.35	CXA-M10L-L
12	1,500	5 / 10	8W, Dual	17 x 29 x 56	—	—	—	—	—	—	445-1631-ND	19.14	17.32	14.59	CXA-P10L-P
12	1,500	7 / 14	8W, Dual	17 x 29 x 56	—	—	—	—	—	—	445-1628-ND	18.27	16.53	13.92	CXA-M14L-P
24	1,200	5 / 10	6W, Dual	16.5 x 29 x 56	—	—	—	—	—	—	445-1625-ND	12.27	11.11	9.35	CXA-M10M-L
24	1,500	5 / 10	8W, Dual	17 x 29 x 56	—	—	—	—	—	—	445-1632-ND	19.14	17.32	14.59	CXA-P10M-P

◆ ***RoHS Compliant***

COILTRONICS CCFL Inverter Transformers, SMT

Specifications:

- **Operating Temperature:** 0°C ~ 70°C
- **Frequency Range:** 40kHz ~ 80kHz
- **Supply Current:** 30mA
- **IR Reflow Temperature:** 240°C for 30 seconds maximum

Mechanical Series	Dimensions - mm L	W	H
A	21.5	14.35	7.8
B	20.6	14.35	8.0
C	26.0	16.5	5.5
D	26.0	16.5	5.5
E	26.0	16.5	7.1

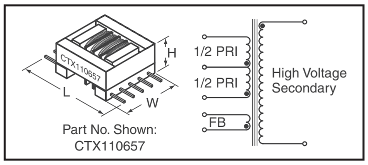

Part No. Shown: CTX110657

Pout Watts	Mechanical Dimensions	Primary DCR (Ω) Maximum	Primary Voltage(1) Maximum (VRMS)	Secondary DCR (Ω) Maximum	Secondary Voltage(1) Maximum (VRMS)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Coiltronics Part No.
2.5	A	0.212	15	285	1340	513-1118-ND	7.61	6.92	5.15	CTX110657-R
2.5	B	0.190	13	285	1340	513-1123-ND	7.91	7.19	5.35	CTX210659-R
4.0	C	0.160	15	220	1340	513-1119-ND	7.56	6.87	5.12	CTX210407-R
6.0	D	0.132	15	176	1340	513-1120-ND	7.80	7.09	5.28	CTX110607-R
6.0	E	0.132	15	176	1340	513-1122-ND	7.80	7.09	5.28	CTX210607-R
6.0	E	0.160	20	176	1340	513-1121-ND	7.80	7.09	5.28	CTX210605-R

Note (1): Continuous RMS Voltage.

J.W.Miller MAGNETICS A Bourns Company SMT, CCFL Inverter Transformers

Features: • Power Rating: 6 Watts • Operating Frequency: 60kHz -/+25% • Operating Ambient Temperature: 0°C ~ 75°C • Storage Temperature: -40°C ~ 105°C • Dielectric Withstanding Voltage: 1500Vrms

Applications: • LCD flat panel displays • Notebook / Palmtop computers • Portable instruments • Retail terminals

Dimensions in mm

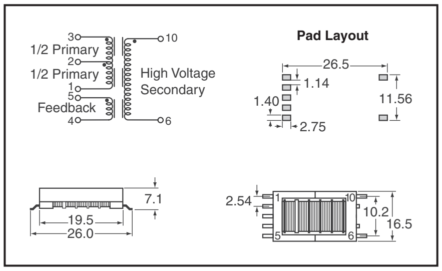

Primary DCR (Ω) Maximum	Primary Voltage (V)	Secondary DCR (Ω) Maximum	Secondary Voltage (V)	I, rms (mA)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	J.W. Miller Part No.
0.61	25.0	132	1300	70	M8100-ND	4.20	3.15	2.80	PM61300-1-RC
0.82	20.0	175	1300	70	M8101-ND	4.20	3.15	2.80	PM61300-2-RC
1.10	15.0	175	1300	70	M8102-ND	4.20	3.15	2.80	PM61300-3-RC
1.88	13.0	175	1300	70	M8103-ND	4.20	3.15	2.80	PM61300-4-RC
2.34	10.5	290	1300	70	M8104-ND	4.20	3.15	2.80	PM61300-5-RC

TAIYO YUDEN DC-AC Inverters for CCFL's

This line of low profile DC to AC inverters are designed to drive cold cathode fluorescent lamp (CCFL) backlighting for LCD displays and are recommended by Sharp, Epson, Optrex, Hitachi, Toshiba and other LCD manufacturers. Superior design techniques are used to provide some of the market's lowest profile CCFL inverters.

Input Voltage (VDC)	Output Voltage (V)	Maximum Current (mA)	Output Power per Lamp (W)	No. of Lamps	Brightness Control	Input Connector	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Taiyo Yuden Part No.
10.8 ~ 13.2	1450	6.0	3.0	2	DC Volt	—	587-2014-ND	35.34	31.98	21.88	KBI-B02D-RH
10.8 ~ 13.2	930	6.5	13.0	2	DC Volt	—	587-2013-ND	45.07	40.78	27.90	KLS-150A-RH
10.0 ~ 16.0	1500	7.5	3.5	1	Pot/DC Volt	WM7623CT-ND	587-2005-ND	34.10	30.86	21.12	LS380-RH
10.8 ~ 13.2	1300	5.2	5.5	2	DC Volt	WM7625CT-ND	587-2006-ND	67.73	61.28	41.93	LS460-RH
9.6 ~ 14.4	1500	7.0	4.0	2	DC Volt	WM7625CT-ND	587-2007-ND	33.18	30.02	20.54	LS530-RH
4.75 ~ 5.25	1000	5.2	4.0	2	DC Volt	—	587-2008-ND	33.60	30.40	20.80	LS655-RH
10.8 ~ 13.2	1650	13.6	8.0	2	PWM/DC Volt	H2225-ND	587-2009-ND	35.49	32.11	21.97	LS700-RH
10.8 ~ 13.2	1650	13.6	8.0	2	PWM/DC Volt	H2225-ND	587-2010-ND	35.49	32.11	21.97	LS720A-RH
4.5 ~ 7.0	1500	6.5	4.0	1	DC Volt	WM7676CT-ND	587-2011-ND	38.12	34.49	23.60	SIPF150-RH
8.0 ~ 20.0	1500	6.5	4.0	1	DC Volt	WM7623CT-ND	587-2012-ND	34.55	31.26	21.39	SIPF200A-RH

Microsemi CCFL Inverter Modules

Features: • 3.3V, 5V and 12V inputs • Power levels from 2.2W to 6W • Programmable maximum output current • Widest dimming range, patented digital "Direct Drive" and Analog • Easy to use brightness control, allows smooth flicker free dimming • Output short-circuit protection and timeout • Automatic strike voltage regulation and timeout • Temperature Ratings: -30°C to 80°C

Advantages: • Low component count • Duty cycle brightness control provides wide brightness range and extends battery management options • Low cost • Reduction in magnetics size • Wide LCD panel compatibility • Maximum efficiency, especially in battery mode
Options: • 3 Wattages: 2.2W, 4W, 6W • Multiple connector styles

Typical V_{IN} (V)	V_{LAMP} Range (V)	Typical I_{OLAMP} (mA)	V_{LS} Minimum/Typical (V)	Maximum Dimming	Operating Temperature	Digi-Key Part No.	*RoHS Compliant* Digi-Key Part No.	Price Each
Single Lamp								
3.3	260 ~ 380	4.0	1250/1400	100:1	0°C ~ 70°C	LXM1615-03-01-ND LXM1615-03-02-ND	LXMG1615-03-01-ND LXMG1615-03-02-ND	34.39 34.39
	325 ~ 435	3.5 ~ 5.0	1000/1100	<5:1	-20°C ~ 70°C	LXM1618-03-21-ND LXM1618-03-22-ND	LXMG1618-03-21-ND LXMG1618-03-22-ND	33.21 33.21
	325 ~ 435	3.5 ~ 5.0	1000/1100	50:1	-20°C ~ 70°C	LXM1617-03-21-ND —	LXMG1617-03-21-ND LXMG1617-03-22-ND	36.36 36.36
5	325 ~ 435	3.5 ~ 5.0	1000/1100	<5:1	-20°C ~ 70°C	— —	LXMG1618-05-21-ND LXMG1618-05-22-ND	33.21 33.21
	325 ~ 435	3.5 ~ 5.0	1000/1100	50:1	-20°C ~ 70°C	— —	LXMG1617-05-21-ND LXMG1617-05-22-ND	36.36 36.80
	450 ~ 620	5.8	1500/1650	100:1	0°C ~ 70°C	— LXM1612-05-02-ND	LXMG1612-05-01-ND LXMG1612-05-02-ND	48.30 48.30
	465 ~ 635	5.0 ~ 6.5	1300/1400	<5:1	-20°C ~ 70°C	— —	LXMG1618-05-41-ND LXMG1618-05-42-ND	33.21 33.21
	465 ~ 635	5.0 ~ 6.5	1300/1400	50:1	-20°C ~ 70°C	LXM1617-05-41-ND —	LXMG1617-05-41-ND LXMG1617-05-42-ND	36.36 36.36
	545 ~ 735	5.0 ~ 8.0	1400/1650	<5:1	-20°C ~ 70°C	LXM1618-05-61-ND —	LXMG1618-05-61-ND LXMG1618-05-62-ND	33.21 33.21
	545 ~ 735	5.0 ~ 8.0	1400/1650	50:1	-20°C ~ 70°C	— —	LXMG1617-05-61-ND LXMG1617-05-62-ND	37.38 36.36
12	300 ~ 800	7.0	1500/1650	100:1	0°C ~ 70°C	—	LXMG1611-01-ND	45.66
	450 ~ 620	5.8	1500/1650	100:1	0°C ~ 70°C	— —	LXMG1612-12-01-ND LXMG1612-12-02-ND	48.30 48.30
	465 ~ 635	5.0 ~ 6.5	1300/1400	<5:1	-20°C ~ 70°C	LXM1618-12-41-ND LXM1618-12-42-ND LXM1618-12-43-ND	LXMG1618-12-41-ND LXMG1618-12-42-ND —	33.21 33.21 33.21
	465 ~ 635	5.0 ~ 6.5	1300/1400	50:1	-20°C ~ 70°C	— —	LXMG1617-12-41-ND LXMG1617-12-42-ND	36.36 36.36
	500 ~ 1000	3.8 ~ 8.8	—/2000	100:1	-40°C ~ 85°C	—	LXMG1614E-14-11-ND	58.54
	545 ~ 735	5.0 ~ 8.0	1400/1650	<5:1	-20°C ~ 70°C	LXM1618-12-61-ND LXM1618-12-62-ND	LXMG1618-12-61-ND LXMG1618-12-62-ND	33.21 33.21
	545 ~ 735	5.0 ~ 8.0	1400/1650	50:1	-20°C ~ 70°C	— LXM1617-12-62-ND	LXMG1617-12-61-ND LXMG1617-12-62-ND	36.36 37.72
Dual Lamp								
5	320 ~ 420	5.0 ~ 6.0	1250/1400	100:1	-30°C ~ 80°C	—	LXMG1626-05-46-ND	61.18
	350 ~ 530	5.0 ~ 6.5	1250/1400	50:1	-20°C ~ 70°C	— LXM1623-05-42-ND	LXMG1623-05-41-ND LXMG1623-05-42-ND	59.48 59.48
	385 ~ 485	5.0 ~ 6.0	1250/1400	100:1	-30°C ~ 80°C	—	LXMG1626-05-45-ND	61.18
	450 ~ 610	5.2 ~ 6.7	1450/1600	50:1	-20°C ~ 70°C	—	LXMG1623-05-44-ND	59.48
	480 ~ 720	5.0 ~ 8.0	1450/1650	50:1	-20°C ~ 70°C	— LXM1623-05-62-ND	LXMG1623-05-61-ND LXMG1623-05-62-ND	59.80 59.48
12	<1250	3.5 ~ 5.0	1400/1650	100:1	-20°C ~ 70°C	—	LXMG1626-12-64-ND	63.25
	320 ~ 420	5.0 ~ 6.0	1250/1400	100:1	-30°C ~ 80°C	—	LXMG1626-12-46-ND	62.10
	350 ~ 500	6.0 6.5	1500/1650	100:1	0°C ~ 70°C	LXM1621-02-ND —	LXMG1621-02-ND LXMG1621-03-ND	78.20 78.20
	350 ~ 530	5.0 ~ 6.5	1250/1400	<5:1	-20°C ~ 70°C	— —	LXMG1624-12-41-ND LXMG1624-12-42-ND	47.73 56.33
	350 ~ 530	5.0 ~ 6.5	1250/1400	50:1	-20°C ~ 70°C	—	LXMG1623-12-41-ND	59.48
	385 ~ 485	5.0 ~ 6.0	1250/1400	100:1	-20°C ~ 70°C	—	LXMG1626-12-45-ND	61.18
	450 ~ 610	5.2 ~ 6.7	1450/1600	50:1	-20°C ~ 70°C	—	LXMG1623-12-44-ND	59.48
	470 ~ 640	5.0	1500/1650	100:1	0°C ~ 70°C	—	LXMG1621-04-ND	87.40
	480 ~ 720	5.0 ~ 8.0	1400/1650	<5:1	-20°C ~ 70°C	— —	LXMG1624-12-61-ND LXMG1624-12-62-ND	56.33 56.33
	480 ~ 720	5.0 ~ 8.0	1400/1650	50:1	-20°C ~ 70°C	— —	LXMG1623-12-61-ND LXMG1623-12-62-ND	60.38 59.48
	500 ~ 750	6.5	1350/1500	100:1	0°C ~ 70°C	—	LXMG1622-12-01-ND	74.75
	500 ~ 750	7.0	1500/1650	100:1	0°C ~ 70°C	—	LXMG1621-01-ND	78.20
Quad Lamp								
12	530 ~ 720	5.0 ~ 8.0	1500/1650	<5:1 50:1	-20°C ~ 70°C	— LXM1643-12-61-ND	LXMG1644-12-61-ND LXMG1643-12-61-ND	76.43 84.92
	530 ~ 730	5.0 ~ 8.0	1500/1650	50:1	-20°C ~ 70°C	—	LXMG1643-12-62-ND	87.40

CCFL Controllers and Input Cable Assemblies

LX1686E: This Backlight Controller IC provides all the control functions needed to implement Microsemi's direct drive inverters used to operate cold cathode fluorescent lamps (CCFL's).

LX1689: The latest generation Direct Drive CCFL uses new circuit design techniques (patents pending) and combines digital and linear circuits with advanced BiCMOS process to create a more complete controller in a small package.

LX1691: This cost reduced, enhanced feature set Direct Drive CCFL architecture is based on the very popular LX1689. By limiting V_{DDP} to 5.5V and using advanced processing, die size and package pin count is decreased while improving dimming precision. LX1691 based inverter modules can be designed for virtually any CCFL appliance from digital cameras and PDA's to big screen monitors and driver viewable automotive displays.

LX1691A: This enhanced Direct Drive CCFL architecture is based on the LX1691. LX1691A based inverter modules can be designed for virtually any CCFL appliance from digital cameras and PDA's to big screen monitors and driver viewable automotive displays.

Description	Digi-Key Part No.	Price Each 1	50
CCFL Controllers			
Digital Dimming Controller	LX1686ECPW-ND	5.87	5.36
Third Generation Controller	LX1689CPW-ND	4.45	3.99
Third Generation Controller	LX1689IPWCT-ND†	7.31	6.57
Third Generation Controller	LX1689IPWTR-ND◊	12187.50/2,500	
Enhanced Multi-Mode Controller	LX1691IPWCT-ND†	7.31	6.57
Enhanced Multi-Mode Controller	LX1691IPWTR-ND◊	12187.50/2,500	
Enhanced Multi-Mode Controller	LX1691AIPWCT-ND†	7.31	6.57
Enhanced Multi-Mode Controller	LX1691AIPWTR-ND◊	12187.50/2,500	
Input Cable Assemblies			
18", 5-Pin	LX9506-ND	4.88	4.38
6", 8-Pin	LX9507G-ND	4.88	4.38
18", 12-Pin	LX9508G-ND	10.24	9.19

† Cut tape ◊ Tape and Reel

JKL® COMPONENTS CORPORATION

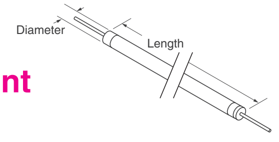

Cold Cathode Fluorescent Lamps and Inverters

Tri-Phosphor-RGB White Lamps

Cold Cathode Fluorescent Lamp

Dia. (mm)	Length (mm)	Start Volts (V)	Lamp Volts (V)	Lamp Curr. (mA)	Intensity (Cd./m2)	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
2.0	125	700	280	5	38,000	289-1145-ND	10.29	9.31	7.84	BF20125-28B
	218	1250	500	5	46,000	289-1107-ND	11.34	10.26	8.64	BF20218-24B
	226	1275	510	5	46,000	289-1144-ND	12.18	11.02	9.28	BF20226-24B
	228	1300	515	5	46,000	289-1146-ND	12.18	11.02	9.28	CF20228-31B
	277	1560	625	5	38,000	289-1147-ND	12.18	11.02	9.28	CF20277-28B
	292	1650	660	5	46,000	289-1108-ND	12.77	11.56	9.73	BF20292-24B
	305	1021	663	6	42,000	289-1166-ND◆	12.98	11.75	9.89	CF20305-24B
	325	1830	735	5	46,000	289-1135-ND	12.98	11.75	9.89	BF20325-24B
2.2	140	730	340	5	38,000	289-1053-ND	10.29	9.31	7.84	BF22140-24B
	160	800	370	5	38,000	289-1136-ND	10.29	9.31	7.84	BF22160-24B
	180	1140	380	5	38,000	289-1148-ND	9.66	8.74	7.36	BF22180-28B
	258	1700	720	5	38,000	289-1059-ND	10.29	9.31	7.84	BF22258-25B
2.3	312	1100	618	6	28,000	289-1168-ND	12.97	11.74	9.88	BF23312-24B
2.4	437	1400	835	5	38,000	289-1137-ND	14.47	13.10	11.03	BF24438-33B
2.6	61	490	195	5	30,000	289-1140-ND	10.29	9.31	7.84	BF2661-24B
	180	1000	400	5	38,000	289-1054-ND	10.29	9.31	7.84	BF26180-24B
	188	1300	525	5	38,000	289-1039-ND	10.29	9.31	7.84	BF26188-20B
	214	1450	620	5	30,000	289-1060-ND	10.29	9.31	7.84	BF26214-20B
	230	1175	495	5	30,000	289-1138-ND	12.77	11.56	9.73	BF26230-24B
	240	1250	505	5	30,000	289-1055-ND	12.76	11.55	9.72	BF26240-24B
	250	1300	525	5	30,000	289-1056-ND	12.76	11.55	9.72	BF26250-24B
	285	1500	725	5	30,000	289-1057-ND	12.76	11.55	9.72	BF26285-20B
	318	1636	676	5	34,000	289-1109-ND	12.77	11.56	9.73	BF26318-20B
	346	1450	700	6	36,000	289-1149-ND	12.77	11.56	9.73	CF26346-37B
	349	1715	730	5	30,000	289-1150-ND	12.77	11.56	9.73	CF26349-28B
	360	1650	700	5	38,000	289-1139-ND	12.98	11.75	9.89	BF26360-20B
	499	2100	1000	6	36,000	289-1151-ND	12.98	11.75	9.89	CF26499-37B
	600	2340	1125	6	36,000	289-1152-ND	12.98	11.75	9.89	CF26600-37B
2.9	25	400	165	5	19,000	289-1002-ND	10.29	9.31	7.84	BF325-22B
3.0	25	400	165	5	—	289-1154-ND	17.12	15.49	13.04	BF325-HG
	275	1475	590	5	28,000	289-1142-ND	12.77	11.56	9.73	BF3275-20B
	380	1975	790	5	28,000	289-1143-ND	12.98	11.75	9.89	BF3380-24B
	50	500	195	5	28,000	289-1003-ND	10.29	9.31	7.84	BF350-20B
	75	525	210	5	28,000	289-1058-ND	10.29	9.31	7.84	BF375-20B
	86	540	220	5	28,000	289-1004-ND	10.29	9.31	7.84	BF386-20B
	100	665	270	5	28,000	289-1005-ND	10.29	9.31	7.84	BF3100-20B
	160	850	345	5	28,000	289-1006-ND	10.29	9.31	7.84	BF3160-20B
	216	1100	440	5	28,000	289-1040-ND	10.29	9.31	7.84	BF3216-20B
	228	1150	460	5	28,000	289-1007-ND	10.29	9.31	7.84	BF3228-21B
	240	1150	480	5	28,000	289-1141-ND	12.77	11.56	9.73	BF3240-24B
	250	1200	520	5	28,000	289-1008-ND	10.29	9.31	7.84	BF3250-20B
	300	1350	665	5	28,000	289-1041-ND	12.76	11.55	9.72	BF3300-20B
	360	1500	785	5	28,000	289-1042-ND	12.76	11.55	9.72	BF3360-20B
4.1	183	900	365	5	16,000	289-1043-ND	10.29	9.31	7.84	BF4183-20B
	418	1400	765	5	15,000	289-1061-ND	13.69	12.39	10.44	BF4418-20B
4.85	142	800	260	5	9,500	289-1153-ND	10.29	9.31	7.84	BF4142-20B
5.6	118	600	305	5	7,000	289-1009-ND	10.29	9.31	7.84	BF5118-20B
	165	800	400	5	7,000	289-1044-ND	10.29	9.31	7.84	BF5165-20B
	200	850	445	5	7,000	289-1010-ND	10.29	9.31	7.84	BF5200-20B
6.5	100	550	230	5	6,500	289-1012-ND	10.29	9.31	7.84	BF6100-20B
	144	600	245	5	6,500	289-1045-ND	10.29	9.31	7.84	BF6144-20B
	150	600	250	5	6,500	289-1013-ND	10.29	9.31	7.84	BF6150-20B
	165	600	255	5	6,500	289-1046-ND	10.29	9.31	7.84	BF6165-20B
	200	680	290	5	6,500	289-1015-ND	10.29	9.31	7.84	BF6200-20B
	225	750	340	5	6,500	289-1016-ND	10.29	9.31	7.84	BF6225-20B
	262	850	350	5	6,500	289-1017-ND	10.29	9.31	7.84	BF6262-20A

◆ ***RoHS Compliant***

Narrow Spectrum Ultraviolet (UV) Lamps

Dia. (mm)	Length (mm)	Start Volts (V)	Operating Volts (V)	Watts @ 5mA	Output uW/cm2@1”	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
3.0	25	350	140	0.70	0.30	289-1018-ND	10.29	9.31	7.84	BF325-UV1
3.0	50	500	195	0.98	0.30	289-1019-ND	10.29	9.31	7.84	BF350-UV1
3.0	100	675	270	1.35	0.25	289-1020-ND	10.29	9.31	7.84	BF3100-UV1
3.0	120	865	280	1.35	0.25	289-1021-ND	10.29	9.31	7.84	BF3120-UV1
3.0	240	950	500	2.50	0.25	289-1022-ND	10.29	9.31	7.84	BF3240-UV1
9.0	59	375	150	0.75	0.15	289-1023-ND	10.29	9.31	7.84	BF959-UV1/3

Fluorescent Lamp Assembly

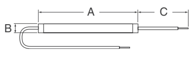

Lamp Length A (mm)	Lamp Diameter B (mm)	Lead Length C (mm)	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
258	2.2	150	289-1111-ND	19.15	17.33	14.60	BF22258-25B/DK01
100	3.0	150	289-1112-ND	15.44	13.97	11.76	BF3100-20B/DK01
160	3.0	150	289-1113-ND	15.44	13.97	11.76	BF3160-20B/DK01
250	3.0	150	289-1114-ND	17.22	15.58	13.12	BF3250-20B/DK01
418	4.1	150	289-1115-ND	20.54	18.59	15.65	BF4418-20B/DK01

Inverters for Electroluminescent (EL) Backlighting

Input Voltage Range (dc)	EL Element Area (cm^2)	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
3.0 ~ 5.5	10 - 19	289-1028-ND	12.20	10.98	9.76	NDL-201
	19 - 38	289-1029-ND	12.20	10.98	9.76	NDL-202
	20 - 60	289-1132-ND*	13.19	11.94	10.05	NDL-104LP
3.0 ~ 5.5	25 - 43	289-1030-ND	12.20	10.98	9.76	NDL-203
	41 - 70	289-1031-ND	11.90	10.71	9.52	NDL-204
	50 - 83	289-1032-ND	11.90	10.71	9.52	NDL-205
3.0 ~ 5.5	100 - 170	289-1033-ND	11.20	10.08	8.96	NDL-217

* Low Profile

Inverters for CCFL and UV Lamps

Input Volts	Output Volts (V)	Output I (mA)	Inverter Characteristics	Digi-Key Part No.	Price Each 1	10	50	JKL Part No.
3.0	650	4.5	Fixed Single Output	289-1062-ND	13.23	11.97	10.08	BXA-302
5.0	650	4.5		289-1047-ND	15.12	13.86	11.97	BXA-502
5.0	700	5.0		289-1134-ND	12.12	11.11	9.60	BXA-501
6.0	1200	5.0		289-1064-ND	14.95	13.53	11.40	BXA-503
12.0	700	5.5		289-1049-ND	15.12	13.86	11.97	BXA-12553
12.0	800	4.0		289-1050-ND	15.12	13.86	11.97	BXA-12576
12.0	800	4.0		289-1051-ND	15.12	13.86	11.97	BXA-12577
12.0	850	5.5	Fixed Dual Output	289-1048-ND†	21.32	19.29	16.24	BXA-12529-PS1
12.0	1000	5.5		289-1025-ND	15.12	13.86	11.97	BXA-12529
24.0	1000	5.5		289-1027-ND	15.12	13.86	11.97	BXA-24529
12.0	1200	5.0	Dimming Single Output	289-1167-ND	13.23	11.97	10.08	BXA-12665-5M
12.0	1500	5.0	Dimming Dual Output	289-1026-ND	15.12	13.86	11.97	BXA-12579
12.0	1800	7.0		289-1119-ND	61.36	55.52	46.76	BXA-12610-7M
Accessories								
Input Conn. Assembly for BXA-12579				289-1037-ND◆	2.00	—	—	BXC-10605
Output Conn. Assembly for BXA-12579				289-1038-ND	2.50	—	—	BXC-10569
Output Connector Assembly for BXA-12553 and BXA-501				289-1052-ND◆	2.00	—	—	BXC-10566
Input Conn. Assembly for BXA-12379				289-1158-ND◆	2.63	2.38	2.00	BXC-12379/ICON
Output Connector Assembly for Single BXA-12379				289-1159-ND◆	2.10	1.90	1.60	BXC-12379/OCON1
Output Connector Assembly for Dual BXA-12379				289-1160-ND◆	3.15	2.85	2.40	BXC-12379/OCON2
Input Conn. Assembly for BXA-12563				289-1161-ND◆	2.63	2.38	2.00	BXC-10546
Output Conn. Assembly for BXA-12563				289-1162-ND◆	2.63	2.38	2.00	BXC-10567
Input Connector Assembly for BXA-12630-5.5M				289-1163-ND◆	3.15	2.85	2.40	BXC-10694
Output Connector Assembly for BXA-12630-5.5M				289-1164-ND◆	2.63	2.38	2.00	BXC-10685
Input Connector for BXA-12549-6M				289-1066-ND◆	2.63	2.38	2.00	BXC-10550
Output Connector for BXA-12549-6M				289-1067-ND◆	2.63	2.38	2.00	BXC-10655
Input Connector for BXA-12617C-6M				289-1068-ND◆	2.63	2.38	2.00	BXC-10580
Output Connector for BXA-12617C-6M, BXA-12592-3M, BXA-12598-5M, BXA-12610-7M and BXA-12613-7M				289-1069-ND◆	2.63	2.38	2.00	BXC-10643
Input Connector for BXA-503				289-1070-ND◆	2.63	2.38	2.00	BXC-10574
Output Connector for BXA-503				289-1071-ND◆	2.63	2.38	2.00	BXC-10585
Input Connector for BXA-12592-3M, BXA-12598-5M and BXA-12594-5M				289-1121-ND◆	2.90	2.63	2.21	BXC-10549
Output Connector for BXA-12594-5M				289-1123-ND◆	2.63	2.38	2.00	BXC-10689
Input Connector for BXA-12610-7M and BXA-12613-7M				289-1124-ND◆	2.90	2.63	2.21	BXC-10630
End Cap for 3mm Fluorescent Lamps				289-1072-ND◆	.53	.48	.40	BF3/RC
End Cap for 2.2mm and 2.4mm Fluorescent Lamps				289-1133-ND◆	.53	.48	.40	BF2.4/RC
End Cap for 2.6mm Fluorescent Lamps				289-1165-ND	.53	.48	.40	BF2.6/RC

◆ ***RoHS Compliant*** † Potted inverter

JST Mating Connector, Contact and Crimp Tool

RoHS COMPLIANT

Description	Digi-Key Part No.	Pricing 10	100	500	Tape & Reel* Pricing	JST Part No.
2-3 Position, 8mm, Crimp Connector Style BH Housing	455-1123-ND	1.69	14.12	56.49	—	BHR-03VS-1
4-Position, 4mm, Crimp Connector Style BH Housing	455-1369-ND	1.72	14.35	57.39	—	BHR-04VS-1
22-28 AWG, Tin-Plated Phosphor Bronze Crimp Contact	455-1124-1-ND	—	2.01	8.03	53.32/4,000	SBH-001T-P0.5
Crimp Tool with Die for 22-28 AWG Contacts	455-1125-ND		432.05/1		—	YC-670R

* For Tape and Reel part number, change 1-ND to 2-ND.

Tyco Electronics AMP

Authorized Distributor

RoHS COMPLIANT

Light-n-Lok™ Connectors

Hot-Pluggable Lighting Disconnect

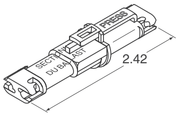

Materials: • Contacts: Tin-plated copper alloy • Housing: Polymide UL 94V-0 • Wire Termination: Poke-In • Wire size: 18AWG

Applications: • Commercial lighting applications for UL2459 • Hot-pluggable interconnect for fluorescent ballast applications • Meets new NEC and CEC requirements.

No. of Positions	Electrical Rating	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
2	600VAC @ 5A	A97617-ND	1.28	1.16	.83	2008144-1
3		A97691-ND	1.44	1.31	.93	2008152-1

IDC Poke-in Wire Tap/Splice

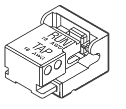

RoHS COMPLIANT

The combination tap/splice is designed to accommodate quick termination of power wiring (tap) out to individual light fixtures (splice).

Materials: • Contacts: Copper alloy • Housing: Thermoplastic • UL 94V-0 rated

Electrical Rating	Color	Wire Size	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
600VAC @ 7A	Brown	12AWG (solid or stranded)	A97619-ND	.56	.51	.36	1811027-1
	Blue	18AWG (solid)	A97620-ND	.56	.51	.36	1811027-2

Noritake Vacuum Fluorescent Display Modules

VFD over LCD Advantages:
- Higher Brightness
- Wider Viewing Angle
- Wider Temperature Range

Features:
- LCD compatible interface
- Same mounting locations as LCD
- 5V single power supply
- Power save mode (display off)
- 4 level brightness control (by code)
- 8-bit or 4-bit interface
- Wide operating temperature range
- 8 user definable fonts
- Power consumption similar to LCD with LED backlight
- 5mm or 9mm character height
- Color: Blue-Green

PIN CONNECTIONS

Pin No.	Symbol	Pin No.	Symbol
1	Vss	8	DB1
2	Vcc	9	DB2
3	NC	10	DB3
4	RS	11	DB4
5	RW (WR)	12	DB5
6	E (RD)	13	DB6
7	DBO	14	DB7

Display Format	Character Format	Outline Dimensions W x H x D (mm)	Viewing Area W x H (mm)	Character Size W x H (mm)	Dot Size W x H (mm)	Operating Temperature (°C)	Storage Temperature (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	10	50	Noritake Part No.
16 x 2	5 x 7 Dots	80 x 36 x 13.2	51.36 x 11.4	2.46 x 4.76	0.38 x 0.56	-40 ~ 85	-50 ~ 85	5	286-1019-ND	63.34	58.59	47.51	CU16025ECPB-W6J
16 x 2	5 x 8 Dots	122 x 44 x 20.2	82.70 x 19	3.85 x 8.0	0.53 x 0.89	-40 ~ 85	-50 ~ 85	5	286-1017-ND	101.50	93.89	76.13	CU16029ECPB-W1J
20 x 2	5 x 7 CURS	116 x 37 x 16	70.8 x 11.5	2.4 x 5.4	0.4 x 0.5	-40 ~ 85	-50 ~ 85	5	286-1005-ND	64.90	60.04	48.68	CU20025ECPB-W1J
20 x 2	5 x 7 Dots	146 x 43 x 19	102.6 x 18.8	3.8 x 8.0	0.6 x 0.975	-40 ~ 85	-50 ~ 85	5	286-1028-ND	105.70	97.78	79.28	CU20029ECPB-W1J
20 x 4	5 x 7 Dots	98 x 60 x 17	70.8 x 20.9	2.4 x 4.7	0.4 x 0.5	-40 ~ 85	-50 ~ 85	5	286-1064-ND	100.86	93.30	75.65	CU20045-UW5J
24 x 2	5 x 7 Dots	125 x 36 x 20.74	85.2 x 11.5	2.4 x 4.7	0.4 x 0.5	-40 ~ 85	-50 ~ 85	5	286-1029-ND	75.02	69.40	56.27	CU24025ECPB-W1J
40 x 2	5 x 7 Dots	182 x 33.5 x 20.5	138.8 x 11.5	2.3 x 4.7	0.38 x 0.5	-40 ~ 85	-50 ~ 85	5	286-1062-ND	101.74	94.11	76.31	CU40025-UW6J
40 x 2	5 x 8 Dots	146 x 62.5 x 23	99.6 x 37.6	3.7 x 8.8	0.57 x 0.84	-40 ~ 85	-50 ~ 85	5	286-1063-ND	156.64	144.90	117.48	CU20049-UW2J
40 x 4	5 x 7 Dots	190 x 54 x 21	137.4 x 23.2	2.1 x 4.9	0.29 x 0.48	-40 ~ 85	-50 ~ 85	5	286-1065-ND	225.04	208.17	168.78	CU40045-UW1J

Graphics Vacuum Fluorescent Display Modules

GUD3000/7000 Graphic Development Kits:

Prepares development strategy for the Noritake 3000 or 7000 Series from your Windows PC using the GUD3000 or GUD7000 development kit.

Complete Development Kit Includes:

- GUD3000 256 x 64 or GUD7000 140 x 32 Graphic Display and stand, assembled.
- Serial Signal/ Power wire harness (RS-232 interface)
- Power Supply
- CD with application

GUD3000/GUD7000

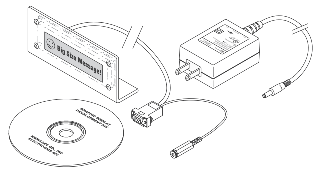

No. of Dots	No. of Characters	Dot Pitch (mm)	Display Area W x H (mm)	PCB Size W x H (mm)	Power (V/mA) (All Dots On)	Operating Temperature (°C)	Digi-Key Part No.	Price Each 1	10	50	Noritake Part No.
128 x 32	4 x 21	0.45 x 0.44	57.45 x 13.93	98 x 131	5.0/400	-40 ~ 85	286-1046-ND	99.88	92.39	74.91	GU128X32D-7000
128 x 32	4 x 21	0.45 x 0.44	57.45 x 13.93	98 x 131	5.0/400	-40 ~ 85	286-1047-ND	96.00	88.80	72.00	GU128X32D-7002
128 x 32	4 x 21	0.45 x 0.44	57.45 x 13.93	98 x 131	5.0/400	-40 ~ 85	286-1048-ND	99.72	92.25	74.79	GU128X32D-7003
128 x 32	4 x 21	0.65 x 0.65	83.05 x 20.65	130 x 38.5	5.0/450	-40 ~ 85	286-1059-ND◆	148.58	137.44	111.44	GU128X32-800B
128 x 64	8 x 21	0.65 x 0.65	83.05 x 41.45	140 x 68	5.0/750	-40 ~ 85	286-1023-ND	164.40	152.07	123.30	GU128X64-800A
128 x 64	8 x 21	0.65 x 0.65	83.05 x 41.45	140 x 68	5.0/750	-40 ~ 85	286-1060-ND◆	176.08	162.88	132.06	GU128X64-800B
128 x 64	4 x 8	0.45 x 0.45	57.45 x 28.65	99 x 49	5.0/760	-40 ~ 85	286-1066-ND◆	118.98	110.06	89.24	GU128X64D-7000
160 x 16	2 x 26	0.65 x 0.95	103.85 x 15	154 x 39	5.0/400	-40 ~ 85	286-1025-ND	157.56	145.75	118.17	GU160X16-800A
160 x 32	4 x 26	0.635 x 0.635	101.45 x 20.17	154 x 45	5.0/550	-40 ~ 85	286-1061-ND◆	164.84	152.48	123.63	GU160X32-800B
192 x 16	2 x 32	0.75 x 0.75	143.8 x 11.8	200 x 33.5	5.0/450	-40 ~ 85	286-1024-ND◆	169.24	156.55	126.93	GU192X16-800A
256 x 32	4 x 42	0.65 x 0.65	166.25 x 20.65	220 x 50	5.0/750	-40 ~ 85	286-1027-ND◆	180.72	167.17	135.54	GU256X32-800A
256 x 64	8 x 42	0.65 x 0.65	166.3 x 41.50	222 x 78	5.0/2,000	-20 ~ 70	286-1010-ND◆	374.40	346.32	280.80	GU256X64-372
256 x 64	8 x 42	0.65 x 0.65	166.25 x 41.45	230 x 78	5.0/1,500	-40 ~ 85	286-1040-ND◆	296.64	274.40	222.48	GU256X64-900A
256 x 64	16 x 32†	0.45 x 0.45	115 x 28.65	159 x 50	5.0/850	-40 ~ 70	286-1043-ND◆	201.50	186.39	151.13	GU256X64D-3900
112 x 16	2 x 16	0.47 x 0.725	52.50 x 11.45	80 x 36	5.0/260	-40 ~ 85	286-1030-ND◆	59.34	54.89	44.51	GU112X16G-7000
112 x 16	2 x 16	0.47 x 0.725	52.50 x 11.45	80 x 36	5.0/260	-40 ~ 85	286-1032-ND◆	56.24	52.03	42.18	GU112X16G-7003
140 x 16	2 x 20	0.5 x 0.725	69.85 x 11.45	116 x 37	5.0/290	-40 ~ 85	286-1033-ND◆	64.28	59.46	48.21	GU140X16G-7000
140 x 16	2 x 20	0.5 x 0.725	69.85 x 11.45	116 x 37	5.0/290	-40 ~ 85	286-1035-ND◆	61.20	56.61	45.90	GU140X16G-7003
140 x 16	2 x 23	0.735 x 1.185	102.75 x 18.8	146 x 43	5.0/650	-40 ~ 85	286-1049-ND	104.66	96.82	78.50	GU140X16J-7000
140 x 16	2 x 23	0.735 x 1.185	102.75 x 18.8	146 x 43	5.0/650	-40 ~ 85	286-1051-ND◆	99.72	92.25	74.79	GU140X16J-7003
140 x 32	4 x 20	0.5 x 0.68	69.85 x 21.61	98 x 60	5.0/400	-40 ~ 85	286-1036-ND◆	99.92	92.43	74.94	GU140X32F-7000
140 x 32	4 x 20	0.5 x 0.68	69.85 x 21.61	98 x 60	5.0/400	-40 ~ 85	286-1038-ND◆	94.98	87.86	71.24	GU140X32F-7003
280 x 16	2 x 46	0.49 x 0.70	137.05 x 11.0	182 x 33.5	5.0/520	-40 ~ 85	286-1052-ND	100.94	93.37	75.71	GU280X16G-7000
280 x 16	2 x 46	0.49 x 0.70	137.05 x 11.0	182 x 33.5	5.0/520	-40 ~ 85	286-1053-ND	97.00	89.73	72.75	GU280X16G-7002
280 x 16	2 x 46	0.49 x 0.70	137.05 x 11.0	182 x 33.5	5.0/520	-40 ~ 85	286-1054-ND	96.00	88.80	72.00	GU280X16G-7003
256 x 64	8 x 42	0.325 x 0.325	83.08 x 20.68	133 x 38	5.0/430	-40 ~ 85	286-1055-ND	201.50	186.39	151.13	GU256X64C-3900
256 x 64	4 x 16	0.45 x 0.45	115.05 x 28.65	159 x 50	5.0/330	-40 ~ 85	286-1067-ND◆	144.62	133.78	108.47	GU256X64D-7000
256 x 128	16 x 42	0.325 x 0.325	83.08 x 41.48	131 x 66	5.0/850	-40 ~ 85	286-1056-ND◆	273.64	253.12	205.23	GU256X128C-3900
256 x 128	16 x 42	0.45 x 0.45	115.05 x 57.45	170 x 90	5.0/1,200	-40 ~ 85	286-1057-ND◆	371.18	343.35	278.39	GU256X128D-3900
256 x 128	16 x 42	0.55 x 0.55	140.65 x 70.25	214 x 110	5.0/100	-40 ~ 70	286-1058-ND	447.62	414.05	335.72	GU256X128E-3900
Graphics Development Kit Without Display							286-1015-ND◆	200.00	185.00	150.00	GUD-ND
Graphics Development Kit for 3000 Series							286-1041-ND◆	303.14	280.41	227.36	GUD3000
Graphics Development Kit for 7000 Series							286-1042-ND◆	184.02	170.22	138.02	GUD7000

† Also available in 6 x 8 and 8 x 16 depending on font size ◆ ***RoHS Compliant***

LCDs

Lumex Numbering System

L C D – S 4 0 1 C 4 0 T F – 1

LCD = 1, S = 2, 401C40 = 3, T = 4, F = 5, – = 6, 1 = 7

1. **Type of Display** Liquid Crystal Display
2. **Operating Temperature** S = Standard (0°C ~ 50°C)
   H = High Temp (-30°C ~ 75°C)
3. **Model Number** Alphanumeric and Numeric
   401C40 =4 Character x 1 line, 0.40”
   4x1C45 =4.5 Character x 1 line, 0.45”
   x - represent 1/2 column
   Matrix and Graphic Model
   01602D =16 Characters x Lines, Dot Matrix
4. **Fluid Type** T = Twisted Nematic (TN)
   S = Super Twisted Nematic (STN)
5. **Polarizer Mode** R = Reflective
   F = Transflective
6. **Display Mode** Default = Positive Image (No Letter), or if more Description Follows Use “-”; N = Negative Image
7. **Viewing Direction** Default = 6 o’clock (No Number)
   1 = 12 o’clock

Format	No. of Digits	Digit Size (mm)	Type (mm)	No. of Pins	Dual Row Spacing (mm)	Digi-Key Part No.	Price Each 1	5	10	Lumex Part No.
	2 1/2	12.17	2.54 Dip	16	28.67	67-1787-ND ◆	1.78	1.65	1.48	LCD-S2X1C50TR
						67-1798-ND ◆	1.78	1.65	1.48	LCD-S2X1C50TF
	3	7.87	2.54 Dip	24	18.10	67-1788-ND ◆	1.66	1.54	1.38	LCD-S301C31TR
						67-1799-ND ◆	1.66	1.54	1.38	LCD-S301C31TF
	3 1/2	12.70	2.54 Dip	40	33.00	67-1789-ND ◆	3.78	3.50	3.14	LCD-S3X1C50TR/A
	3 1/2	12.70	2.54 Dip	40	33.18	67-1790-ND ◆	3.78	3.50	3.14	LCD-S3X1C50TR/B
	4	9.92	1.27 Dip	40	24.64	67-1792-ND ◆	2.96	2.74	2.46	LCD-S401C39TR
	4	13.20	2.54 Dip	40	32.39	67-1793-ND ◆	4.20	3.89	3.49	LCD-S401C52TR
	4	18.00	2.54 Dip	40	40.01	67-1794-ND ◆	4.54	4.20	3.77	LCD-S401C71TR
	4 1/2	8.89	2.54 Dip	40	24.45	67-1795-ND ◆	3.04	2.82	2.53	LCD-S4X1C35TR
	6	17.99	2.54 Dip	50	40.14	67-1796-ND ◆	7.26	6.72	6.03	LCD-S601C71TR
						67-1807-ND ◆	7.26	6.72	6.03	LCD-S601C71TF

Overall Size (mm)	Active Area (mm)	Color	Typical Voltage	Current (mA)	Works with LCD Part No.	Digi-Key Part No.	Price Each 1	5	10	Lumex Part No.
Backlight										
30.0 x 20.0	24.0 x 18.4	Green	2.2	25	67-1798-ND	67-1952-ND	2.50	2.32	2.08	SSB-CEL2417SUGC
114.0 x 28.8	100.4 x 25.2	Green	4.2	576	67-1807-ND	67-1953-ND ◆	8.64	8.00	7.18	SSB-COB10025GW

◆ ***RoHS Compliant***

Lumex Numbering System

L C M – S 0 1 6 0 2 D T F – 1

LCM = 1, S = 2, 01602 = 3, D = 4, T = 5, F = 6, – = 7, 1 = 8

1. **Type of Display** Liquid Crystal Module
2. **Operating Temperature** S = Standard (0°C ~ 50°C)
   H = High Temp (-20°C ~ 70°C)
3. **Model Number** Dot Matrix and Graphic Model
   01602 = 16 Character x 2 Lines
   12864 = 128 Columns x 64 Rows
4. **Display Type** D = Dot Matrix G = Graphic
5. **Fluid Type** T = Twisted Nematic (TN)
   S = Super Twisted Nematic (STN)
6. **Polarizer Mode** R = Reflective F = Transflective
7. **Display Mode** Default = Positive Image (No Letter), or if more description follows use “-”; N = Negative Image
8. **Viewing Direction** Default = 6 o’clock (No Number)
   1 = 12 o’clock

LCD Graphic Modules

Features:
- Standard Temperature Version

Built-in Controller	Dot Pixels W x H	Outline Dimension (mm) W x H x D	Viewing Area (mm) W x H	Pixel Size (mm) W x H	Pixel Pitch (mm) W x H	Back-light Type	Digi-Key Part No.	Price Each 1	5	10	Lumex Part No.
EPSON SED1520	122 x 32	84 x 44 x 12.70	60.50 x 18.50	.40 x .45	.44 x .49	LED	67-1782-ND	24.98	23.11	20.74	LCM-S12232GSF
SAMSUNG S6B0108	128 x 64	93 x 70 x 12.7	72 x 40	.48 x .48	.52 x .52	LED	67-1783-ND	47.80	44.22	39.68	LCM-S12864GSF
	128 x 64	75 x 52.7 x 10	60 x 32.5	.40 x .40	.43 x .43	LED	67-1784-ND	50.80	46.99	42.17	LCM-H12864GSF/H-Y
TOSHIBA T6963C	240 x 64	180 x 65 x 14	133 x 40	.49 x .49	.53 x .53	LED	67-1785-ND	91.80	84.92	76.20	LCM-S24064GSF
	240 x 128	144 x 104 x 15.1	114 x 64	.40 x .40	.45 x .45	LED	67-1786-ND	117.68	108.86	97.68	LCM-S240128GSF

Dot Matrix LCD Modules

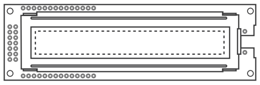

Features: • Standard Temperature Version • Standard Pin Connections • All the LCD's listed use a SAMSUNG controller P/N S6A0069

Display Format	Character Format	Pad Layout	Outline Dimension W x H x D (mm)	Viewing Area W x H (mm)	Character Size W x H (mm)	Dot Size W x H (mm)	Operating Temperature (°C)	Storage Temperature (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	5	10	Lumex Part No.
Twisted Nematic, Reflective without LED Backlight														
16 x 1	5 x 8 Dots	Top	80 x 36 x 8.8	66 x 16	3.07 x 6.56	.55 x .75	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1778-ND	7.50	6.94	6.23	LCM-S01601DTR
16 x 2		Top	80 x 36 x 8.8	66 x 16	2.96 x 5.56	.56 x .66				67-1779-ND	9.28	8.59	7.71	LCM-S01602DTR/A
16 x 2		L Side	85 x 30 x 8.9	66 x 16	2.96 x 5.56	.56 x .66				67-1780-ND	9.28	8.59	7.71	LCM-S01602DTR/C
16 x 2		Bottom	66 x 26 x 6.5	52 x 19	2.46 x 5.56	.46 x .66				67-1781-ND	5.88	5.44	4.88	LCM-S01602DTR/M
Super Twisted Nematic, Reflective without LED Backlight														
16 x 1	5 x 8 Dots	Top	80 x 36 x 8.8	66 x 16	3.07 x 6.56	.55 x .75	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1767-ND	9.56	8.85	7.94	LCM-S01601DSR
16 x 2		Top	80 x 36 x 8.8	66 x 16	2.96 x 5.56	.56 x .66				67-1768-ND	10.34	9.57	8.59	LCM-S01602DSR/A
16 x 2		Bottom	84 x 44 x 8.8	66 x 16	2.96 x 5.56	.56 x .66				67-1769-ND	11.38	10.53	9.45	LCM-S01602DSR/B
16 x 2		L Side	85 x 30 x 8.9	66 x 16	2.96 x 5.56	.56 x .66				67-1770-ND	10.34	9.57	8.59	LCM-S01602DSR/C
16 x 2		Bottom	122 x 44 x 8.8	99 x 24	4.84 x 9.63	.92 x 1.16				67-1771-ND	15.50	14.34	12.87	LCM-S01602DSR/D
16 x 4		Top	87 x 60 x 8.9	65 x 25.6	2.95 x 4.75	.55 x .55				67-1772-ND	22.02	20.37	18.28	LCM-S01604DSR
20 x 2		L Side	116 x 37 x 8.9	85 x 18.6	3.2 x 5.55	.60 x .65				67-1773-ND	15.82	14.64	13.14	LCM-S02002DSR
20 x 4		Top	98 x 60 x 8.8	77 x 26.3	2.95 x 4.75	.55 x .55				67-1774-ND	23.98	22.19	19.91	LCM-S02004DSR
24 x 2		L Side	118 x 36 x 8.8	93.5 x 16	3.2 x 5.55	.60 x .65				67-1775-ND	16.46	15.23	13.67	LCM-S02402DSR
40 x 4		L Side	190 x 54 x 10	149 x 29.5	2.78 x 4.89	.50 x .55				67-1777-ND	57.28	52.99	47.55	LCM-S04004DSR
Super Twisted Nematic, Transflective with LED Backlight														
16 x 1	5 x 8 Dots	Top	80 x 36 x 12.7	66 x 16	3.07 x 6.56	.55 x .75	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1757-ND	12.62	11.68	10.48	LCM-S01601DSF
16 x 2		Top	80 x 36 x 12.7	66 x 16	2.96 x 5.56	.56 x .66				67-1758-ND	13.36	12.36	11.09	LCM-S01602DSF/A
16 x 2		Bottom	84 x 44 x 12.7	66 x 16	2.96 x 5.56	.56 x .66				67-1759-ND	13.98	12.94	11.61	LCM-S01602DSF/B
16 x 2		L Side	85 x 30 x 12.7	66 x 16	2.96 x 5.56	.56 x .66				67-1760-ND	13.36	12.36	11.09	LCM-S01602DSF/C
16 x 4		Top	87 x 60 x 12.7	62 x 25.6	2.95 x 4.75	.55 x .55				67-1761-ND	27.66	25.59	22.96	LCM-S01604DSF
20 x 2		L Side	116 x 37 x 12.7	85 x 18.6	3.2 x 5.55	.60 x .65				67-1762-ND	20.58	19.04	17.09	LCM-S02002DSF
20 x 4		Top	98 x 60 x 12.7	77 x 26.3	2.95 x 4.75	.55 x .55				67-1763-ND	31.50	29.14	26.15	LCM-S02004DSF
24 x 2		L Side	118 x 36 x 12.7	93.5 x 16	3.2 x 5.55	.60 x .65				67-1764-ND	21.28	19.69	17.67	LCM-S02402DSF
40 x 2		L Side	182 x 33.5 x 12.7	154 x 15.3	3.2 x 5.55	.60 x .65				67-1765-ND	37.14	34.36	30.83	LCM-S04002DSF
40 x 4		L Side	190 x 54 x 14.5	149 x 29.5	2.78 x 4.89	.50 x .55				67-1766-ND	67.48	62.42	56.01	LCM-S04004DSF

Color LCD TFT Modules 4.0” and 6.4” Modules

Take Standard NTSC Composite Video Signals

These high quality, low profile, 4.0” and 6.4” color LCD TFT modules can be used to view any NTSC composite video source such as the output from a VCR or one of our small Panasonic CCD cameras.

Operating Conditions:
- **Operating Voltage (Vop):** 10-30VDC, 12VDC typical
- **Operating Temperature (Top):** 0°C ~ 60°C
- **Storage Temperature (Tst): 4.0” Module:** -20°C ~ 80°C **6.4” Module:** -25°C ~ 80°C
- **Operating Humidity (Ho):** 85%RH
- **Storage Humidity (Hs):** 85% RH
- **Input Signal/NTSC Sync Negative** (Composite Video Signal: 1Vp-p/75Ω): **Vi:** 1Vp-p **fH:** 15.75KHz **fV:** 60Hz **fc:** 3.58MHz
- **Power Consumption (Pc): 4.0” Module:** 5W, **6.4” Module:** 7W

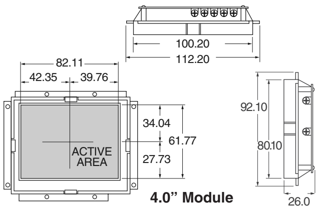

4.0” Module

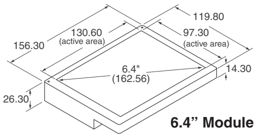

6.4” Module

Interface Board

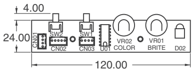

Display Size (inch)	Resolution (No. of lines)		Active Area (mm)		Dot Pitch (mm)		Weight (gm.)	Backlight*	Viewing Angle				Digi-Key Part No.	Price Each	Lumex Part No.
	Width	Height	Width	Height	Width	Height			Right	Left	Up	Down			
4.0	480	234	82.10	61.70	0.106	0.161	166 ±5	CCFT	45°	45°	10°	30°	67-1547-ND	299.00	LCM-480234GF-40CG

* 10,000 hour minimum at Tamb=25°C

red lion Counters and Timers

CUB3 and CUB3T

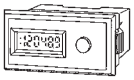

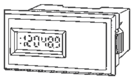

CUB3

The CUB3 is a battery-powered up counter for counting dry contact closures from switches or relay contacts. Built-in debounce circuitry ensures accurate counts up to 100 Hz. It can also be used with transistor closures and has a reset button on the front of the counter.

CUB3T

The CUB3T is a time display that will count the length of time that the inputs are connected together. Inputs are triggered using a dry contact switch to start the timing circuit. Time indicators require a supply voltage of 10 ~ 300VAC or DC. Rear reset only.

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
CUB3 Count Indicator, 100 Hz, Replaceable N Cell Battery	RLC03-ND◆	32.40	CUB30000
CUB3 Count Indicator, 100 Hz, Built-in Lithium Battery	RLC04-ND	38.88	CUB3L000/A
Alkaline N Cell Battery for RLC03-ND	P147-ND◆	1.08	AM5X
CUB3T Time Indicator, 1 Hour or 60 Min., 10-300VAC or DC Input	RLC3TR-30-ND	47.52	CUB3T300
CUB3T Time Indicator, .1 Hour or 6 Min., 10-300VAC or DC Input	RLC3TR-31-ND	47.52	CUB3T310
CUB3T Time Indicator, .01 Hour or 60 Sec., 10-300VAC or DC Input	RLC3TR-32-ND	47.52	CUB3T320
CUB3T Time Indicator, .1 Min. or 6 Sec., 10-300VAC or DC Input.	RLC3TR-33-ND	47.52	CUB3T330

◆ ***RoHS Compliant***

CUB7 Series Counters and Timers

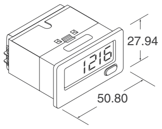

CUB7/CUB7W

The CUB7 and CUB7W are 8-digit miniature counters with large 0.35" (8.89 mm) high digits. The LCD read-out is available in Positive Image Reflective, Negative Image Transmissive with yellow/green or red LED backlighting. The backlight version requires an external 9 ~ 28VDC power supply. The CUB7 series is housed in a lightweight, high-impact plastic case with a clear viewing window. The sealed front panel with the silicone rubber reset button meets NEMA 4X/IP65 specifications for wash-down and/or dusty environments when properly installed. The CUB7W accepts most machine control voltage signals. The input accepts AC or DC control voltages from 10 ~ 300V at count speeds up to 30 counts per second (cps).

Features:

• Replaceable internal lithium battery provides up to 7 years of uninterrupted operation • Front panel reset or remote reset • Connections: Wire clamping screw terminals • Fits DIN standard cut-out 1.77" (45 mm) x 0.874" (22.2 mm) • Low speed count to 30 Hz from switch closure or O.C. transistor; High speed count to 10 kHz (CUB7)

CUB7T

Features:

• 10 programmable timer ranges • 8-digit LCD reflective display with "Timer Active" annunciator • 0.35" (8.89mm) high digits • Available in either contact or voltage versions • Replaceable internal lithium battery provides up to 6 years of uninterrupted operation • Both front panel program and rest buttons are individually enabled • Connections: Wire clamping screw terminals • Front panel and remote reset inputs • NEMA 4X/IP65 sealed front bezel

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
CUB7 Counter, Reflective LCD, Dry-contact Input	RLC700-ND◆	51.84	CUB70000
CUB7 Counter, Yellow/Green Backlight LCD, Dry-contact Input	RLC701-ND◆	73.44	CUB70010
CUB7 Counter, Red Backlight LCD, Dry-contact Input	RLC702-ND	73.44	CUB70020
CUB7 Counter, Reflective LCD, 10-300VAC or DC Input	RLCW70-ND◆	56.16	CUB7W000
CUB7 Time Indicator, Reflective LCD, Dry-contact Input.	RLC7T0-ND◆	48.60	CUB7T000
CUB7 Time Indicator, Reflective LCD, 10-300VAC or DC Input	RLC7T1-ND	48.60	CUB7T100

◆ ***RoHS Compliant***

SUB-CUB 1 and 2 Counters

SUB-CUB 1 and 2

SUB-CUB 1 and 2 are component-type up counters designed to be snapped down onto a standard 1/16" PCB. Solderless elastomeric pads contact copper pads on the PCB for inputs, reset and display latch and test functions. Solderless connections are corrosion-proof, gas-tight interface contacts for high reliability. Ultra low power (5V at 15μA typical) and latchable display with automatic leading zero blanking. Ideal in applications for register status and usage, maintenance, diagnostics, time-duration or period readouts.

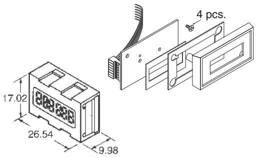

SUPER SUB-CUB

SUPER SUB-CUB provides all the capabilities of SUB-CUB 1 and 2, plus four operating modes capable of bi-directional counting, quadrature counting, coincidence counting and anti-coincidence adding and subtracting. Optional bezel mounting kit provides a crisp, clean panel-mount option for panel-mounted applications.

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
SUB CUB I and II			
Evaluation Kit for Counter Testing (Counter Sold Separately)	RLC01-ND	57.24	DM-OSC-B01/A
Mounting PCB for Display Counter to Evaluation Kit	RLC02-ND◆	10.80	DM-OSC-B02/A
Display Counter, .2" (5.08mm) High Digits	RLC1000-ND◆	24.84	SCUB-1000
Display Counter, .35" (8.89mm) High Digits	RLC2000-ND◆	31.32	SCUB-2000
Panel Bezel Kit with PCB and Cable for RLC2000-ND	RLC40-ND	22.68	HWK-40-000/A
SUPER SUB CUB — RoHS Compliant			
SUPER SUB-CUB Prototype PCB	RLC08-ND	15.12	DM-OSC-B03/A
Panel Bezel Kit without PCB or Cable for RLC05-ND, RLC07-ND, RLC2-8A-ND, RLC200A-ND and RLC2000-ND	RLC30-ND	11.88	HWK-30-000/A
Panel Bezel Kit with PCB and Cable for RLC200A-ND	RLC50A-ND◆	27.00	HWK-50-000/A

◆ ***RoHS Compliant***

CUB5 Series

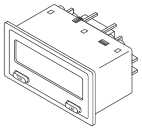

The CUB5 provides the ultimate in flexibility, from its complete user programming to the optional relay output capability. The meter can be programmed as a single or dual counter with rate indication capability. As a dual counter, each counter has a separate scale factor and decimal point. In the counter/rate indicator mode, each has its own scaling and decimal point read-out in different engineering units. The display can be toggled either manually or automatically between the selected displays. The CUB5 can be powered from an optional Red Lion Micro-Line/Sensor Power Supply (RLC124-ND) which attaches directly to the back of the CUB5. The RLC124-ND is powered from 85-250VAC and provides up to 400mA to drive the unit and sensors.

Features: • 0.46" (11.7mm) high digits • Reflective and backlight LCD versions: backlight version user selectable for green or red backlighting with variable display intensity • Counter programmable for one of 8 different count modes, including bi-directional and quadrature • Non-volatile E_2PROM memory retains all programming parameters and count values when power is removed • Meters can be fitted with an optional plug-in relay card which can be installed initially or at a later date

Specifications: • Display: 0 ~ 999999 • Over Range Display: "R OLOLOL" • Maximum Frequency: 20 kHz; Minimum Frequency: 0.01 Hz • Accuracy: ±0.01% • Operating Temperature: -35°C ~ 85°C • Connections: Wire clamping screw terminals • Count/Rate Signal Input A: DIP switch selectable to accept pulses from variety of sources; Input B: Logic signals only

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
CUB5 Dual Counter and Rate Indicator, Reflective Display	RLC121-ND	101.92	CUB5R000
CUB5 Dual Counter and Rate Indicator, Red-Green Backlight Display	RLC122-ND	113.36	CUB5B000
Setpoint Relay Option Card, SPDT, 1A Output	RLC123-ND	26.00	CUB5RLY0
Micro-Line/Sensor Power Supply	RLC124-ND	42.90	MLPS1000

MDMU Counter/Timer/Tach

Panel Mount

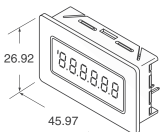

Circuit Board Mount

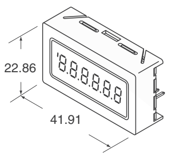

The MDMU is a complete 6-digit counter/timer/tach in a small panel mounted or printed circuit board (PCB) mounted package. It is designed to operate from a 5VDC power supply. It has a 6-digit LCD with 0.35" (8.89mm) high digits and 5 selectable decimal points. In the timer mode, a flashing annunciator is supplied to indicate that the signal input of the MDMU is active. The displays are available in Positive Image Reflective (black digits, reflective background) or Negative Image Transmissive (illuminated digits, dark background) with red or yellow/green backlighting.

Counter Mode: It can be selected by setting the Mode Select Inputs to the appropriate levels (Hardware selection). A rate multiplier of 0.0001 ~ 1.9999 and a decimal point of 0 through 0.00000 can be selected using the Program mode. Decimal points may also be set using the DP Inputs (Hardware selection). Both the Count (CNT) and LSC Inputs can be used. (Using the Program mode option causes the counter to increment on the opposite edge of the Input signal.)

Timer Mode: This mode and range can be selected by either setting the Mode Select Inputs to the appropriate levels (Hardware selection) or by selecting the range in the Program mode. The available timing range increments are 1 msec, 10 msec, 100 msec, 1 second, 0.1 minute, 1 minute, 0.01 hour, 0.1 hour, 1 hour, and hr:min:sec. The Timer Active annunciator will flash at a 2 Hz rate when the input to the timer is activated. Both the CNT and the LSC inputs can be used. The Inhibit (INH) Input can be used to enable or disable Leading Zero Blanking (LZB).

Tach Mode: It can be selected by setting the Mode Select Inputs to the appropriate levels (Hardware selection). In the Tach mode, the MDMU operates as a fixed 1 second time base tachometer. In the Program mode, the time base can be set 1 through 7 seconds (in whole second increments). The rate multiplier can also be programmed from 0.0001 through 1.9999. Decimal points can be set from 0 through 0.00000. Decimal points may also be set using the DP Inputs. Both the CNT and the LSC Inputs can be used.

Features: • LCD: Positive Image Reflective or Negative Image Transmissive with yellow/green or red LED backlighting • Counter, timer and tach all in a single unit • Rate multiplier/prescaler from 0.0001 ~ 1.9999 in count and tach modes • 10 ranges in timer mode • Selectable decimal points • 5VDC powered • Panel mount or PCB mount

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
Counter/Timer/Tach, Reflective Display, Panel Mount	RLCU00-ND◆	38.88	MDMU0000
Counter/Timer/Tach, Yellow Backlight Display, Panel Mount	RLCU01-ND	49.68	MDMU0010
Counter/Timer/Tach, Red Backlight Display, Panel Mount	RLCU02-ND◆	49.68	MDMU0020
Counter/Timer/Tach, Reflective Display, PCB Mount	RLCU10-ND	35.64	MDMU0100
Counter/Timer/Tach, Yellow Backlight Display, PCB Mount	RLCU11-ND	46.44	MDMU0110
Counter/Timer/Tach, Red Backlight Display, PCB Mount	RLCU12-ND	46.44	MDMU0120
MDM Cable Assembly	RLC70-ND	14.04	HWK70000

◆ ***RoHS Compliant***

SUB-CUB 2-8A, D and T

SUB-CUB 2-8A

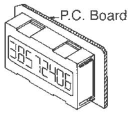

The SUB-CUB 2-8A is a completely self-contained 8-digit counter module for high speed counting, with counting rates to 750 kHz. Counters are designed to be snapped down onto a standard 1/16" PCB. Solderless elastomeric pads contact copper pads on the PCB for inputs, reset and display latch and test functions. Solderless connections are corrosion-proof, gas-tight interface contacts for high reliability.

SUB-CUB D

The SUB-CUB D is a 6-digit up/down counting, true quadrature counter. Mode select inputs and add, subtract, multiply and divide functions make this counter extremely flexible for different frequencies.

SUB-CUB T

The SUB-CUB T is a selectable counter/timer display. Counter mode is selectable for either low count input (with debounce) or high speed inputs (without debounce). In the timer mode, the unit is selectable in 4 timer modes from hours down to .1 minute resolution. Optional bezel mounting kit provides a crisp, clean panel-mount option for panel-mounted applications.

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
SUB-CUB 2-8A			
8-Digit LCD component up counter	RLC2-8A-ND	44.28	SCUB28A0
Panel Bezel Kit with PCB and Cable for RLC2-8A-ND	RLC28-ND	24.84	HWK-28-000/A
SUB-CUB D — RoHS Compliant			
8-Digit Bi-directional Module with 6-Digit LCD Display	RLC05-ND	33.48	SCUBD-200/A
SUB-CUB D Prototype PCB	RLC09-ND	15.12	DM-OSC-B04/A
SUB-CUB T			
5 Digit Timer/Counter	RLC07-ND◆	32.40	SCUBT-200/A
Panel Bezel Kit without PCB or Cable for RLC05-ND, RLC07-ND, RLC2-8A-ND, RLC200A-ND and RLC2000-ND	RLC30-ND	11.88	HWK-30-000/A

◆ ***RoHS Compliant***

Miniature Display D.C. Voltmeter

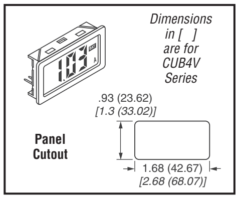

MDMV Series: **SPECIFICATIONS:** • Display: 3-1/2-digit, 0.4" (10.2mm) high digits. A minus (-) sign is displayed when voltage is negative • Decimal Points: Selectable decimal points are activated at the rear terminal pins to allow the display to be read in tenths, hundredths or thousandths • Annunciators: 5 selectable annunciators, BAT, V, A, µ and m are activated at the appropriate rear terminal • Power Requirements: 4.8VDC ~ 6VDC @ 5mA Maximum • Input Range: 0 to ±199.9m VDC • Over-range Indication: Over-range is indicated by a "1" displayed in the most significant digit and the blanking of the three least significant digits • Reading Rate: 2 1/2 readings per second • Common Mode Rejection Ratio: 70dB • Input Impedance: 1000MΩ • Operating Range: 0°C ~ 60°C

CUB4V Series: **SPECIFICATIONS:** • LCD, positive reflective or negative transmissive with yellow/green or red backlighting • Four selectable D.C. ranges (0-199.9 mV, 1.999 V, 19.99 V, 199.9 V) • 0.6" (15.24mm) high LCD digits • Built-in scaling provided • Auto-zeroing circuit • Selectable decimal points • Wire connections made via screw clamp type terminals • Fits DIN standard cut-out 2.68" (68mm) x 1.30" (33mm) • NEMA 4X/IP65 sealed front panel bezel • 9 ~ 28VDC powered

Description	Digi-Key Part No.	Price Each 1	Price Each 5	Red Lion Part No.
MDMV Series				
Panel Mt., Reflective Display	RLC000-ND◆	40.80	39.78	MDMV0000
Panel Mt.,Ylw./Grn. Backlight Display	RLC010-ND◆	53.60	52.26	MDMV0010
Panel Mt., Red Backlight Display	RLC020-ND	53.60	52.26	MDMV0020
PC Board Mt., Reflective Display	RLC100-ND	37.60	36.66	MDMV0100
PC Board Mt.,Ylw./Grn. Backlight Display	RLC110-ND	51.20	49.92	MDMV0110
PC Board Mt., Red Backlight Display	RLC120-ND	51.20	49.92	MDMV0120
MDM Cable Assembly	RLC70-ND	14.04	13.69	HWK70000
CUB4V Series — RoHS Compliant				
DC Voltmeter	RLC4V0-ND	104.00	—	CUB4V000
DC Voltmeter,Ylw./Grn. Backlight Display	RLC4V1-ND	115.44	—	CUB4V010
DC Voltmeter, Red Backlight Display	RLC4V2-ND	115.44	—	CUB4V020

◆ ***RoHS Compliant***

LD Series Large Display Counters and Timers

Red Lion's low cost large digit display's are available in either large 2.25" (57.15mm) red LED digit height or very large 4.0" (101.60mm) red LED digit height. Choose either a single counter function or single timer function that is housed in a NEMA 4 case construction and features adjustable brightness control, 85 ~ 250VAC power input and selectable high or low frequency (0.01 Hz ~ 35KHz) inputs. Perfect for industrial settings such as factory displays, outside displays or long distance displays.

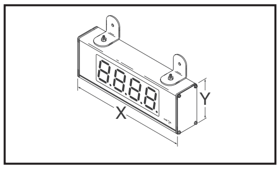

Description	Dimension - Inch (mm) X	Dimension - Inch (mm) Y	Digi-Key Part No.	Price Each	Red Lion Part No.
4.0" (101.60mm) High 4 Digit Red LED Counter, 120VAC	20.0 (508.0)	7.875 (200.0)	RLC118-ND	504.40	LD400400
4.0" (101.60mm) High 6 Digit Red LED Timer, 120VAC	26.0 (660.4)	7.875 (200.0)	RLC125-ND	660.40	LD4T06P0

PAX Lite Meters

Dimensions in inches

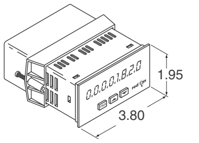

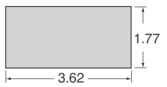

PAX LITE DC Current and Voltmeters

PAX Lite Current and Volt Meters are premium quality instruments designed for tough industrial applications. With multi-range capability, built-in provision for scaling, and DIP switch selectable decimal points, these meters offer the ultimate in application flexibility. Two models cover your voltage and current indicator needs. The meter can provide direct readout from pressure, speed or flow transducers, or any other variable that can be translated to voltage or current. The built-in scaling allows the display to be scaled to the desired engineering unit.

Specifications: • **Power:** 115/230VAC, switch selectable, 50/60 Hz • **Input Ranges/Resolution:** Selectable by jumper connections • **Accuracy:** • DC Voltmeters: 1 mV, 10 mV, 100 mV or 1 V • **DC Current Meters:** 199.9 µA/199.9 mV, 1.999 mA, 19.99 mA, 199.9 mA or 1.999 A • **Over-Range Indication:** on all modes is indicated by blanking 3 least significant digits

RLC105-ND (PAXLID00) PAX LITE DC Current, 3 1/2-Digit, LED Meter.............................. **$109.20**
RLC107-ND (PAXLVD00) PAX LITE DC Voltmeter, 3 1/2-Digit, LED Meter **$109.20**

PAX LITE 600 VAC Voltage Monitor

The Model PAXLHV is designed for AC voltage monitoring. The half-wave rectified input signal is calibrated to indicate the RMS value of a pure sinusoidal wave-form. The front bezel meets NEMA 4X/IP65 requirements when properly installed.

Specifications: • **Power:** 115/230VAC, switch selectable, 50/60 Hz • **Input Range:** 0 ~ 600VAC maximum • **Resolution:** 1VAC • **Operating Temperature Range:** 0°C ~ 60°C • **Reading Rate:** 400 msec., nominal • **Response Time:** 1 second nominal for a step change input

RLC111-ND (PAXLHV00) AC Voltage Monitor, 3-Digit, LED Meter **$154.96**

PAX LITE 5A AC Current Meter

PAX LITE 5 Amp AC Current Meter provides the capability of measuring large AC currents. The internal current shunt in the PAXLIT can measure up to 5 Amps AC current directly. Using an external current transformer, AC currents of up to 1,999 Amps can be measured and displayed. The PAXLIT can be scaled, using the scaling potentiometer to display between 200 and 1999 when measuring full scale current. Using the DIP switch selectable decimal points, the display can be customized for direct readout for practically any application

Specifications: • **Display:** 3 1/2-digit, 0.56" (14.2 mm) high, 7-segment LED; Decimal points inserted before 1st, 2nd, or 3rd least significant digits by DIP switch selection. • **Power:** 115/230VAC, switch selectable, 50/60 Hz • **Range:** 0 ~ 5 Amps AC @ 45 ~ 400 Hz • **Accuracy:** ±(0.5% of reading + 5 digits) • **Over-Range Indication:** indicated by blanking 3 least significant digits • **Maximum Shunt Current:** 50 Amps for 1 second; 8 Amps continuous • **Operating Temperature:** 0°C ~ 60°C

RLC109-ND (PAXLIT00) PAX LITE Large AC Current, 3 1/2-Digi, LED Meter **$154.96**

PAX LITE Counter

The PAX Lite Counter, Model PAXLC, is a versatile totalizing counter that can be adapted to a wide variety of counting, measuring and positioning readout applications. The unit features a programmable scale factor, front panel and remote reset, store, inhibit and a count rate of 25 kHz, while offering an economical solution to any totalizing need. The PAXLC accepts digital inputs from a variety of sources including switch contacts, NPN-OC and TTL outputs, as well as most standard Red Lion sensors. The input can be scaled to display any desired unit of measure by simply using the programmable scale factor.

Specifications: • Overflow indicated by flashing dot to the right of digit. Decimal points are programmed by front panel keys. • **AC Power:** 115/230VAC, switch selectable, 50/60 Hz • **DC Power:** 10 ~ 16VDC @ 0.1 A maximum • **Keypad:** 3 programming keys, the (Down Arrow) key can also function as the front panel reset button • **Count Input:** DIP switch selectable • **Filter:** Damping capacitor provided for switch contact bounce. Limits input frequency to 50 Hz and input pulse widths to 10 msec. minimum • **Maximum Count Rate:** 25 kHz maximum

RLC102-ND (PAXLC800) PAX LITE Counter, 8-Digit, LED Meter.................................... **$157.04**

PAX LITE Rate Meter

The PAX Lite Rate Meter, Model PAXLR, provides the versatility and flexibility needed to accommodate virtually any rate measuring application. The meter has the ability to scale for direct readout in terms of the units being measured. Whether a machine produces bottles, cloth, wire or beverage mix, operation is enhanced when the rate readout is expressed directly in bottles/minute, feet/minute, gallons/minute or whatever units are needed in plant applications. The PAXLR can accommodate magnetic pickups, logic sensors and NPN open collector sensors. The meter is programmed through both the front panel buttons and DIP switches. Once the programming is complete, the front panel buttons can be disabled by a DIP switch setting.

Specifications: • Decimal points are programmed by front panel keys. • **AC Power:** 115/230VAC, switch selectable, 50/60 Hz • **DC Power:** 10 ~ 16VDC @ 0.1 A maximum • **Keypad:** 3 programming keys; Outputs, Magnetic Pickups and all standard Red Lion sensors • **Input Frequency Range:** • Maximum Frequency: 25 kHz • Minimum Frequency: 0.01 Hz • Accuracy: ±0.01% • **Memory:** Nonvolatile E2PROM retains all programmable parameters and display values. • **Operating Temperature:** 0°C ~ 60°C

RLC103-ND (PAXLR000) PAX LITE Rate, 6-Digit, LED Meter.. **$148.72**

PAX LITE Process Time Meter

The PAX Lite Process Time Meter, Model PAXLPT, displays a value representing the time between a beginning and end point of a process, such as a conveyor oven. The PAXLPT's display will update inversely in relation to the input signal frequency. As input frequency increases (representing speed), the PAXLPT time display will decrease indicating a reduction in the duration of process time. For example, the bake time through an oven will decrease the faster the conveyor runs. The display can be programmed for two operating modes. Operating in the 6 digit mode, the PAXLPT can readout in any whole value, such as seconds, minutes or hours. This mode also provides capability for decimal points. The 5 digit mode functions as a chronometer, which has a maximum display value of 999-59. This formats the display to allow the meter to readout in hours and minutes, minutes and seconds, etc.

Specifications: • **AC Power:** 115/230VAC, switch selectable, 50/60 Hz • **DC Power:** 10 ~ 16VDC @ 0.1 A maximum • **Keypad:** 3 programming keys • **Input:** DIP switch selectable; accepts pulses from a variety of sources including NPN-OC, PNP-OC, TTL Outputs, Magnetic Pickups and all standard Red Lion sensors. • **Maximum input voltage:** ±40 V peak, 30 Vrms • **Input Frequency Range:** • Maximum frequency: 25 kHz • Minimum frequency: 0.05 Hz • Accuracy: ±0.02% • **Memory:** Nonvolatile E2PROM retains all programmable parameters. • **Operating Temperature:** 0°C ~ 60°C

RLC104-ND (PAXLPT00) PAX LITE Process Time, 6-Digit, LED Meter **$227.67**

PAX LITE Current Loop Meter

With its high sensitivity and programmability, the PAX Lite Current Loop Meter can be set up for a wide variety of applications. In most plants the PAXLCL can be used for 90 to 95% of current loop meter needs for readout of pressure, flow, temperature, level and other variables. The meter has been specifically designed for harsh industrial environments.

Specifications: • **Over-Range Indication:** Indicated by blanking 3 least significant digits • **Power:** AC Power: 85 ~ 250VAC, 50/60 Hz, 6VA • **Isolation:** 2300 Vrms for 1 minute between input and supply (300V working voltage) • **Input Sensitivity:** (Numerical Readout Change/mA) 260 units/mA @ 4 ~ 20 mA input, 105 units/mA @ 10 ~ 50 mA input (maximum allowable input current, 170 mA) • **Input Resistance:** 4 ~ 20 mA - 29.2 Ω, 10 ~ 50 mA - 11.8 Ω • **Span:** 32 coarse steps (binary progression with 5 DIP switches) Each step providing approximately 8.125 numerical units/mA/step sensitivity for 4 ~ 20 mA input and 3.25 units/mA/step for 10 to 50 mA input.

RLC112-ND (PAXLCL00) PAX LITE Current Loop, 3 1/2-Digit, LED Meter.......................... **$154.96**

PAX LITE RTD Meter

The Pax Lite RTD Meter accepts standard RTD inputs and precisely linearizes them into temperature readings. A full 4-digit display accommodates a wide range of temperature inputs. State-of-the-art digital circuitry virtually eliminates errors due to drift. The meter features a readout choice of either Fahrenheit or Celsius with 0.1 or 1 degree resolution. English Style display prompts and front panel buttons aid the operator through set-up and operation.

Specifications: • **Power:** 85 ~ 250VAC, 50/60 Hz • **Controls:** Three front panel push buttons for meter set-up; rear terminal input for disabling the front panel • **Resolution:** 0.1 or 1 degree • **Range:** Decimal Point Dependent 0.1° res: -199.9°C ~ 850.0 °C (-199.9°F ~ 999.9 °F); 1° res: -200°C ~ 850 °C (-328°F ~ 1562 °F) • **Open/Shorted RTD Detection:** Display flashes: "OLOL" or "OLUL" • **Accuracy:** 0.3°C, @ 23°C and 30 minutes warm-up • **Reading Rate:** 2.5 readings/second • **Response Time:** 2 seconds to settle for step input (increases with programmable digital filtering) • **Low Frequency Noise Rejection:** Normal Mode Rejection: 40 dB @ 50/60 Hz (may be improved by programmable digital filtering) • **Common Mode Rejection:** 120 dB, DC to 50/60 Hz. • **Operating Temperature Range:** 0°C ~ 50°C

RLC115-ND (PAXLRT00) PAX LITE RTD, 4-Digit, LED Meter **$193.44**

PRD Plastics

Bezels

- Bezel material is polystyrene plastic
- Recommended panel thickness for mounting snap-fit bezel is .813mm ~ 3.18mm

Digi-Key Part No.	Dimensions (mm)		Panel Cut-Out For Snap Fit Bezel	
	A	B	Height	Width
PRD180B-ND	58.74	45.72	26.99	52.39
PRD250B-ND	76.20	63.50	26.99	69.85
PRD360B-ND†	104.78	91.44	26.99	98.43

† PRD360B-ND has 4 snap-on plastic clip bars

Snap-Fit Bezel
(Lenses must be ordered separately.)

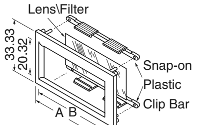

Lo-Profile Polycarbonate/ABS with Non-Removable Lens
(requires adhesive strips)

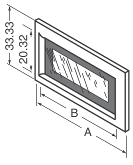

Description	Digi-Key Part No.	Price Each 1	10	100	PRD Plastics Part No.
Snap Fit Bezels (Lenses Must Be Ordered Separately)					
45.72mm Wide Bezel Black Plastic	PRD180B-ND	1.71	1.43	1.14	6101010
63.50mm Wide Bezel Black Plastic	PRD250B-ND	2.10	1.75	1.40	6102010
91.44mm Wide Bezel Black Plastic	PRD360B-ND	2.46	2.05	1.64	6103010
For Use With LCDs					
Clear Lens for 45.72mm Bezel	PRD180C-ND	1.53	1.28	1.02	6201010
Clear Lens for 63.50mm Bezel	PRD250C-ND	1.71	1.43	1.14	6202010
Clear Lens for 91.44mm Bezel	PRD360C-ND	1.92	1.60	1.28	6203010
For Use With LEDs					
Smoke Lens for 45.72mm Bezel	PRD180S-ND	1.53	1.28	1.02	6201020
Smoke Lens for 63.50mm Bezel	PRD250S-ND	1.71	1.43	1.14	6202020
Smoke Lens for 91.44mm Bezel	PRD360S-ND	1.92	1.60	1.28	6203020
Red Lens for 45.72mm Bezel	PRD180R-ND	1.53	1.28	1.02	6201030
Red Lens for 63.50mm Bezel	PRD250R-ND	1.71	1.43	1.14	6202030
Red Lens for 91.44mm Bezel	PRD360R-ND	1.92	1.60	1.28	6203030
Green Lens for 45.72mm Bezel	PRD180G-ND	1.53	1.28	1.02	6201040
Green Lens for 63.50mm Bezel	PRD250G-ND	1.71	1.43	1.14	6202040
Green Lens for 91.44mm Bezel	PRD360G-ND	1.92	1.60	1.28	6203040
Masked Lenses					
25.40mm x 22.23mm Window for 45.72mm	PRD180W-ND	1.53	1.28	1.02	6201050
60.96mm x 16.00mm Window for 63.50mm	PRD250W-ND	1.71	1.43	1.14	6202050
65.41mm x 13.79mm Window for 63.50mm	PRD250W1-ND	1.71	1.43	1.14	6202060
83.01mm x 18.59mm Window for 91.44mm	PRD360W-ND	1.92	1.60	1.28	6203050
93.35mm x 15.80mm Window for 91.44mm	PRD360W1-ND	1.92	1.60	1.28	6203060

Description	Digi-Key Part No.	Price Each 1	10	100	PRD Plastics Part No.
Lo-Profile Polycarbonate/ABS					
Lo-Profile For LCDs *					
45.72mm Bezel with Clear Lens	PRD180LP-ND	3.39	2.83	2.26	6301010
45.72mm Bezel and Clear Lens with 25.40mm x 22.23mm Window	PRD180LPW-ND	3.39	2.83	2.26	6301020
63.50mm Bezel with Clear Lens	PRD250LP-ND	3.81	3.18	2.54	6302010
63.50mm Bezel with Clear Lens with 60.96mm x 16.00mm Window	PRD250LPW-ND	3.81	3.18	2.54	6302020
63.50mm Bezel with Clear Lens with 65.41mm x 13.79mm Window	PRD250LPW1-ND	3.81	3.18	2.54	6302030
91.44mm Bezel with Clear Lens	PRD360LP-ND	4.35	3.63	2.90	6303010
91.44mm Bezel with Clear Lens with 83.01mm x 18.59mm Window	PRD360LPW-ND	4.35	3.63	2.90	6303020
91.44mm Bezel with Clear Lens with 93.35mm x 15.80mm Window	PRD360LPW1-ND	4.35	3.63	2.90	6303030
Lo-Profile For LEDs *					
45.72mm Bezel with Smoke Lens	PRD180LPS-ND	3.39	2.83	2.26	6301040
45.72mm Bezel with Red Lens	PRD180LPR-ND	3.39	2.83	2.26	6301050
45.72mm Bezel with Green Lens	PRD180LPG-ND	3.39	2.83	2.26	6301060
63.50mm Bezel with Smoke Lens	PRD250LPS-ND	3.81	3.18	2.54	6302040
63.50mm Bezel with Red Lens	PRD250LPR-ND	3.81	3.18	2.54	6302050
63.50mm Bezel with Green Lens	PRD250LPG-ND	3.81	3.18	2.54	6302060
91.44mm Bezel with Smoke Lens	PRD360LPS-ND	4.35	3.63	2.90	6303040
91.44mm Bezel with Red Lens	PRD360LPR-ND	4.35	3.63	2.90	6303050
91.44mm Bezel with Green Lens	PRD360LPG-ND	4.35	3.63	2.90	6303060
Accessories					
Adhesive Strips 2/Pad	PRDAS-ND	.31	.30	.28	6000010

* Requires Adhesive Strips (recommend 2 pads for the 91.44mm Bezel)

Analog Panel Meters

The PB Series was designed to meet the expressed need of many customers for meters with a hard-hitting, big-dial-area “industrial” look.

PB Series - Square

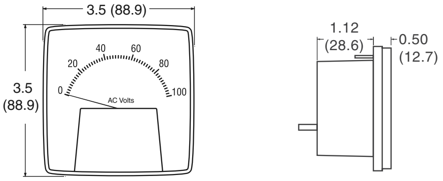

S Series - Rectangular

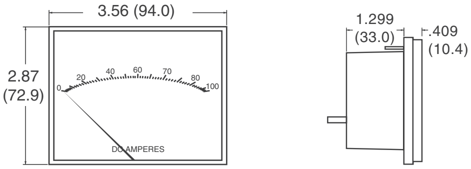

Type	Frequency Range	Input V	Accuracy	Digi-Key Part No.	Price Each 1	5	10	Jewell Instruments Part No.
Frequency Meters Pointer Type Electronic								
Square	45-55Hz	120VAC	±.3Hz	180-1086-ND	120.00	117.00	114.00	R3PB-FRQ-50/120-10-U
	55-65Hz			180-1087-ND	120.00	117.00	114.00	R3PB-FRQ-60/120-10-U
Rectangular	45-65Hz	120VAC	±.6Hz	180-1068-ND	120.00	117.00	114.00	R3S-FRQ-55/120-20-U
			±.3Hz	180-1069-ND	120.00	117.00	114.00	R3S-FRQ-50/120-10-U

Miniature Backlit 1000 Series

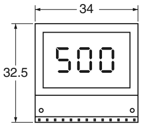

Specifications: Display:

• Digits: 3 1/2 digits (1999) • Digit Height: 0.3” (7.6mm) • Decimal Point: 3 positions, external selection • Type: 7 Segment Backlit LCD • Polarity: Automatic (-) displayed • Overload: Three lower digits blank for readings greater than 1999 **Input:** • Full Scale Range: ±2V or ±200m VDC • Input Resistance: ±100MΩ • Overvoltage Protection: 100VDC or peak AC conditions

Performance:

• Accuracy: = (0.25% + 1 count) Maximum • Common Mode Rejection: ≥ 86db 50Hz-60Hz • Zero Adjust: Automatic • Conversion Rate: 2.5 Per Second • Tempco: 100 PPM/°C

Environment:

• Operating Range: -0°C ~ 60°C • Storage Range: -20°C ~ 70°C **Extended Temperature (option):** • Operating Range: -30°C ~ 80°C • Storage Range: -40°C ~ 85°C **Power Options:** • +5VDC and -5VDC ±10% @ 150ua DC or 9VDC (7.2 ~ 12VDC isolated @ 150µADC)

Note: For the battery powered DPM, the input must either be fully isolated from the power source, or, if referenced to the source, the IN LO terminal must be no closer than 2.3V for the 200mV range (3.5V for the 2V range) to either battery terminal.

Display	Mounting	Terminals	DPM Power	Input	Digi-Key Part No.	Price Each 1	5	10	Jewell Instruments Part No.
Pos. Red Backlight	Window	with 13 pins	Loop Powered	4 - 20mADC	180-1051-ND	183.10	178.53	173.95	1060-0019-U

Jewell Instruments MODUTEC

Industrial Digital Panel Instruments 2000 Series

Specifications:

Performance: • Conversion Rate: 2.5 per second • Common Mode Rejection: ≥100db 50Hz-60Hz • Tempco: ±200PPM/°C typical except thermocouple inputs which are .1°/ degree zero tempco for selectable process ranges is only ± .2 count/°C • Normal Mode Rejection: ≥40db 50Hz-60Hz • Zero Adjust: Automatic • Warmup: 10 minutes **Environment:** • Operating Range: -4°F ~ 140°F (-20°C ~ 60°C) • Storage Range: -22°F ~ 150°F (-30°C ~ 70°C) **Power Options:** • 115V + 10%, -15% 50Hz to 400Hz at 2VA • 230V +10%, -15% 50Hz ~ 400Hz at 2VA **Backlighting Options:** • Positive Green (Green Background, Black Characters) • Negative Red (Black Background, Red Characters) **FCC Compliance:** • Complies with the class B limits of FCC rules and regulations, part 15, sub part J for conducted and radiated emissions. • Except isolated DC powered which is ≥ 80db 50Hz-60Hz

Display	DPM Power	Input†	Backlit Power††	Digi-Key Part No.	Price Each			Modutec Part No.
					1	5	10	
TRMS (Power) - Universal Selectable True RMS								
Neg. Red Backlit	115 or 230VAC	250VAC	115 or 230VAC	180-1036-ND	256.30	249.90	243.49	2353-1026-10-U
Neg. Red Backlit		200.0VAC	115 or 230VAC	180-1037-ND	256.30	249.90	243.49	2353-1024-10-U
UPM - Universal Selectable Process, IDC Voltage or DC Current								
Neg. Red Backlit	115VAC	4/20mADC scaled 0/100.0 percent	115VAC	180-1038-ND	221.50	215.97	210.43	2153-3419-04-U
1/8 DIN								
Neg. Red Backlit	115VAC	Type J Thermocouple	115VAC	180-1040-ND	76.58	—	73.52	2053-3480-04-U
Neg. Red Backlit		100 Ohms Pt 1° Resolution		180-1041-ND	76.58	—	73.52	2053-3470-04-U
Neg. Red Backlit		0 - 50AAC/ Avg		180-1042-ND	144.70	141.09	137.47	2053-3439-04-U
Neg. Red Backlit		80 - 260VAC Avg		180-1043-ND	144.70	141.09	137.47	2053-3429-04-U
Pos. Green Backlit		0 - 200VDC		180-1044-ND	144.70	141.09	137.47	2033-3404-04-U
Pos. Green Backlit		0 - 20VDC		180-1045-ND	144.70	141.09	137.47	2033-3403-04-U
Pos. Green Backlit		0 - 2VDC scaled 0 to 1.999		180-1046-ND	144.70	141.09	137.47	2033-3402-04-U
Pos. Green Backlit		0 - 200mVDC scaled 0 - 199.9		180-1047-ND	144.70	141.09	137.47	2033-3401-04-U
Non Backlit	Loop Power	4 - 20mADC scaled 0 - 100.0	No Backlight	180-1048-ND	184.60	179.99	175.37	2013-3019-00-U

† Rated for use with 5A or 50A external current transformer supplied with DPM. †† Backlight power must be same as selected DPM power.

Big - Little Digital Panel Meters

Fig. 1

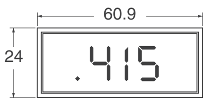

Fig. 2

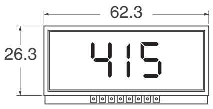

BL Series Specifications:

Display:

- Digits: 3 1/2 digits, 7 segments backlit LCD (1999)
- Digit Height: 0.5” (12.7mm)
- Polarity: Automatic (-) displayed
- Decimal Point: Three positions, external selection
- Overload: Three lower digits blank for readings greater than 1999
- Low battery: “Low Bat” indicator for <7.2V (9V power only)

Performance:

- Accuracy: ±(0.1% rdg + 2 count) with + 5 and ±5V power ± (0.1% rdg + 1 count) with 9V power 2.5 per second
- Conversion Rate: 2.5 per second
- Common Mode Voltage Range: ± 1V maximum
- Common Mode Rejection: > 86db
- Zero Adjust: Automatic
- Tempco: 100PPM/°C typical

Standard Analog Inputs:

- Full Scale Range: Choice ±200mV, ±2V, or ±20V (Special ranges and engineering units available)
- Configuration: True differential input and references
- Ratiometric Operation: Available on models BL-100, -130, -300, -330, -400, -430, -500, -530, -600, and -630
- Protection: 250VDC or 150V RMS continuous 300V intermittent maximum
- Bias Current: 1pA typical, 10pA maximum
- All backlighting power is + 5VDC

Display	Mounting	DPM Power	Input	Digi-Key Part No.	Price Each			Modutec Part No.
					1	5	10	
Fig. 1 — 13 Pin Terminals Backlit Power 5VDC								
Negative Red Backlit	Bezel	+5VDC	0 - 2VDC	180-1002-ND	102.70	100.14	97.57	BL-530302-01-U
	Bezel	+5VDC	0 - 200mVDC	180-1003-ND	102.70	100.14	97.57	BL-530301-01-U
	Window	+5VDC	0 - 2VDC	180-1004-ND	98.50	96.04	93.58	BL-500302-01-U
	Window	+5VDC	0 - 200mVDC	180-1005-ND	98.50	96.04	93.58	BL-500301-01-U
	Window	9VDC	0 - 2VDC	180-1006-ND	98.50	96.04	93.58	BL-500102-01-U
	Window	9VDC	0 - 200mVDC	180-1007-ND	98.50	96.04	93.58	BL-500101-01-U
Negative Green Backlit	Window	+5VDC	0 - 2VDC	180-1008-ND	95.70	93.31	90.92	BL-400302-01-U
	Window	+5VDC	0 - 200mVDC	180-1009-ND	95.70	93.31	90.92	BL-400301-01-U
	Window	9VDC	0 - 2VDC	180-1010-ND	95.70	93.31	90.92	BL-400102-01-U
	Window	9VDC	0 - 200mVDC	180-1011-ND	95.70	93.31	90.92	BL-400101-01-U
Positive Green Backlit	Bezel	+5VDC	0 - 2VDC	180-1012-ND	95.70	93.31	90.92	BL-330302-01-U
	Bezel	+5VDC	0 - 200mVDC	180-1013-ND	95.70	93.31	90.92	BL-330301-01-U
	Window	+5VDC	0 - 2VDC	180-1014-ND	91.50	89.22	86.93	BL-300302-01-U
	Window	+5VDC	0 - 200mVDC	180-1015-ND	91.50	89.22	86.93	BL-300301-01-U
	Window	9VDC	0 - 2VDC	180-1016-ND	91.50	89.22	86.93	BL-300102-01-U
	Window	9VDC	0 - 200mVDC	180-1017-ND	91.50	89.22	86.93	BL-300101-01-U
Standard Reflective LCD	Bezel	+5VDC	0 - 20VDC	180-1021-ND	77.50	75.57	73.63	BL-130303-U
	Bezel	+5VDC	0 - 2VDC	180-1022-ND	69.00	67.28	65.55	BL-130302-U
	Bezel	+5VDC	0 - 200mVDC	180-1023-ND	77.50	75.57	73.63	BL-130301-U
	Window	+5VDC	0 - 20VDC	180-1024-ND	73.30	71.47	69.64	BL-100303-U
	Window	+5VDC	0 - 2VDC	180-1025-ND	73.30	71.47	69.64	BL-100302-U
	Window	+5VDC	0 - 200mVDC	180-1026-ND	73.30	71.47	69.64	BL-100301-U
	Window	9VDC	0 - 2VDC	180-1027-ND	73.30	71.47	69.64	BL-100102-U
	Window	9VDC	0 - 200mVDC	180-1028-ND	73.30	71.47	69.64	BL-100101-U
Fig. 2 — Flat Pack								
Standard Reflective LCD	Window	+5VDC	20VDC	180-1018-ND	64.70	63.09	61.47	BL-176303-U
	Window	+5VDC	2VDC	180-1019-ND	64.70	63.09	61.47	BL-176302-U
	Window	+5VDC	200mVDC	180-1020-ND	64.70	63.09	61.47	BL-176301-U
Bezel Kit	—	—	—	180-1001-ND◆	10.00	9.75	9.50	176-BK-U

◆ ***RoHS Compliant***

OMRON. ON-Delay H3JA Timers

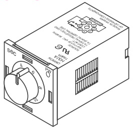

Features: • DPDT contact Form • Fits standard 8-pin sockets • LED power-ON indictor • ON-delay only

Specifications: • Supply Voltage: 100/110/120VAC • Control Output, DPDT: maximum load - 5A, 125/250VAC (resistive load), minimum load - 100mA, 5VDC • Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) • Mechanical Service Life: 10 million operations minimum • Electrical Service Life: 100,000 operations minimum at maximum ratings

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Delay Timer, 120VAC, 1 ~ 10 Second, DPDT	Z1646-ND	40.87	37.85	35.33	H3JA-8C-AC100-120 10S
Delay Timer, 120VAC, 0 ~ 30 Second, DPDT	Z2389-ND◆	40.87	37.85	35.33	H3JA-8C-AC10012030S
Delay Timer, 120VAC, 0 ~ 1 Minute, DPDT	Z2391-ND◆	40.87	37.85	35.33	H3JA-8C-AC10012060S
Delay Timer, 120VAC, 0 ~ 10 Minute, DPDT	Z2388-ND◆	40.87	37.85	35.33	H3JA-8C-AC10012010M
Delay Timer, 120VAC, 0 ~ 60 Minute, DPDT	Z2390-ND◆	40.87	37.85	35.33	H3JA-8C-AC10012060M
8-Pin Relay Socket for H3JA/H5CX-LB Series	Z883-ND◆	10.28	9.25	8.22	P3G-08
Panel Mount Adapter for H3JA Series	Z886-ND	5.53	4.98	4.42	Y92F-31
DIN-Rail Mount Socket for H3JA Series	Z2368-ND◆	7.42	6.87	6.42	PF085-A

◆ ***RoHS Compliant***

Low Cost H3YN Timers

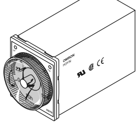

Features: • Improved miniature timer relay that operates in 4 selectable modes: ON-Delay, Interval, Repeat Cycle, ON-Start (selectable by dip switches) • Independent Power-ON and Time-Up indicators show relay status instantly • Control Outputs: DPDT: 5A at 250VAC, resistive load; 4PDT: 3A at 250VAC, resistive load • Operating Temperature: -10°C ~ 50°C • Mechanical Service Life: 10,000,000 operations minimum • Electrical Service Life: DPDT: 500,000 operations minimum; 4PDT: 200,000 operations minimum For mounting socket, use Z882-ND (DPDT) or Z811-ND (4PDT)

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Relay Timer Analog 0 ~ 10 Minute DPDT	Z1134-ND	41.34	38.28	35.73	H3YN-2 AC100-120
Relay Timer Analog 0 ~ 10 Hours DPDT	Z1135-ND	41.34	38.28	35.73	H3YN-21 AC100-120
Relay Timer Analog 0 ~ 10 Minute 4PDT	Z1136-ND	42.28	39.15	36.54	H3YN-4 AC100-120
Relay Timer Analog 0 ~ 10 Hours 4PDT	Z1137-ND	42.28	39.15	36.54	H3YN-41 AC100-120

H3RN Compact Analog Timers

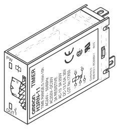

Features:

- Multiple operating modes, DIP switch selectable, ON-delay, Interval, Repeat cycle ON-Start/OFF-Start
- Standard multiple time ranges: Short range (0.15 ~ 10 minutes) Long range (0.1 minute ~ 10 hours)
- Pin configuration compatible with G2R-IS

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Mini Delay Timer, 4 Mode, 0 ~ 10 Min., 24 VAC	Z2397-ND	39.46	36.54	34.11	H3RN-1-AC24
Mini Delay Timer, 4 Mode, 0 ~ 10 Min., 24 VDC	Z2398-ND	39.46	36.54	34.11	H3RN-1-DC24
Mini Delay Timer, 4 Mode, 0 ~ 10 Hrs., 24 VAC	Z2399-ND	39.46	36.54	34.11	H3RN-11-AC24
Mini Delay Timer, 4 Mode, 0 ~ 10 Hrs., 24 VDC	Z2400-ND	39.46	36.54	34.11	H3RN-11-DC24

H3CR Analog Timers

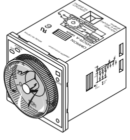

Features: • Field-selectable time ranges from 0.05 second to 300 hours • Use for delay timing, repeatable cycles or duration (interval) timing. Built-in DPDT relay switches when timing cycle is complete. • Timing Functions: ON-delay, Repeat cycle (B, B2), Signal ON/OFF delay, Signal OFF-delay, Interval

Specifications: • Supply Voltage: 100VAC ~ 240VAC, or 24 ~ 48VAC/12 ~ 48DC • Operating Voltage: 85% ~ 110% of rated supply voltage • Control Output: Type - DPDT relay, Maximum load - 5A, 250VAC, minimum load - 10mA, 5VDC • Repeat Accuracy: ±0.3% full scale maximum, except in 1.2 range ±0.3%, ±10ms

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Relay Timer, 120/240VAC, 11-Pin Octal DPDT	Z876-ND	58.49	54.16	H3CRAAC100240DC100125
Relay Timer, 24VDC/AC, 11-Pin Octal DPDT	Z997-ND	56.38	52.20	H3CRAAC24-48/DC12-48
Relay Timer, 120/240 VAC, 8-Pin Octal	Z2379-ND	58.50	54.17	H3CR-A8-AC100240/DC100125
Relay Timer, 24VDC/VAC, 8-Pin Octal	Z2380-ND	58.50	54.17	H3CR-A8-AC24-48/DC12-48
Relay Timer, 24 VDC/VAC, 8-Pin Octal	Z2381-ND	61.32	56.78	H3CR-A8E-AC/DC24-48
Repeat Timer, 0 ~ 30 hrs. 120 ~ 240VAC	Z2366-ND	72.90	67.50	H3CR-F-AC100-240
Repeat Timer, 0 ~ 300 hrs., 120VAC, 8-Octal	Z2384-ND	67.18	62.21	H3CR-F8-300-AC100240
Repeat Timer, 0 ~ 300 hrs., 120 ~ 240VAC	Z2358-ND	67.18	62.21	H3CR-FN-AC100-240
Repeat Time, 0 ~ 30 hrs., 12VDC	Z2815-ND ***NEW!***	72.90	67.50	H3CR-F8-DC12
Repeat Timer, 0 ~ 30 hrs., 120VAC, 8-Octal	Z2385-ND	67.18	62.21	H3CR-F8N-AC100240
Off-Delay Timer, 0 ~ 12 min., 120 VAC	Z2386-ND	64.83	60.03	H3CR-H8L-AC100-120M
Off-Delay Timer, 0 ~ 12 sec., 120VAC	Z2387-ND	64.83	60.03	H3CR-H8L-AC100-120S
Hard Plastic Clr. Cover for 48x48mm Timers	Z2367-ND	6.67	6.18	Y92A-48B
Soft Protective Panel Cover, For H3CR	Z2802-ND ***NEW!***	14.01	12.98	Y92A-48F1
Socket Din Mount 11-Pin Screw Terminal	Z884-ND	12.33	11.10	P2CF-11
Protective Panel Cover, Black, For H3CR	Z929-ND	4.04	3.75	Y92P-48GB
Chassis Mount 11-Pin Octal Socket	Z2250-ND	11.37	10.24	P3GA-11

Solid State Timers

Series H3CA – Digital Bar Graph

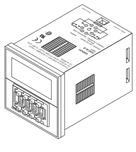

Features: • A simple programmable timer to setup and read with presetable thumb wheel switches for time and mode selection. Also features a simple time-remaining LCD bar graph and LCD status indicator for easy viewing • Operations include: ON-delay, Repeat-cycle, Signal Interval/OFF-delay, Signal-OFF delay (I and II), Interval, Cycle and Signal ON-delay/OFF-delay

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Timer, .1 Sec. ~ 9.99 Khrs., 11 Pin Octal	Z2359-ND	105.24	97.44	90.95	H3CA-A
Timer, .1 Sec. ~ 9.99 Khrs., 8 Pin Octal	Z2377-ND	102.42	94.83	88.51	H3CA-8-AC100/110/120
Timer, ON-Delay Only, 8 Pin Octal	Z2378-ND	111.78	103.50	96.60	H3CA-8H-AC100110120

Relay Timers Series H5CX – Digital

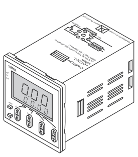

Features: • Field-selectable time ranges from 0.001 second to 9999 hours • High-visibility alphanumeric LCD display has 11.5mm high characters and built-in backlight • Selectable elapsed time (UP) and time remaining (DOWN) display • Timing functions: 11 selectable, including ON-delay, repeat cycle, OFF delay, interval, and one-shot • Programmable display color to alert any output status change

Specifications: • Supply voltage: 100VAC ~ 240VAC, 50/60 Hz • Operating Voltage: 85% ~ 110% of rated voltage • Relay Control Output: Maximum load - 5A, 250VAC; Minimum load - 10mA, 5VDC • Memory Function: Retains preset values for 10 years at 25°C • Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) • Mechanical Service Life: 10 million operations minimum • Electrical Service Life: 100,000 operations minimum at 5A, 240VAC, resistive load (p.f. = 1)

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Digital Timer, w/Backlight Time, 8-Pin Octal	Z1644-ND	115.57	107.01	H5CX-L8-AC100-240
Digital Timer, 8-Pin Octal, 12-24 VDC/AC	Z2370-ND◆	115.57	107.01	H5CX-L8D-AC24DC1224
Digital Timer, w/Backlight, Screw Terminal	Z1645-ND	135.30	125.28	H5CX-A-AC100-240
Digital Timer, Screw Terminal, 12-24VDC/AC	Z2371-ND◆	135.30	125.28	H5CX-AD-AC24DC12-24
Digital Timer, 11-Pin Octal, 120/240VAC	Z2369-ND◆	133.42	123.54	H5CX-A11-AC100-240
Digital Timer, 11-Pin Octal, 12-24VDC/AC	Z2405-ND◆	133.42	123.54	H5CX-A11D AC24/DC12-24
Digital Timer, Screw Terminal, 12-24VDC/AC	Z2373-ND◆	135.30	125.28	H5CX-ASD-AC24/DC12-24
Digital Twin Timer, Screw Term., 12-24VDC/AC	Z2408-ND◆	160.67	148.77	H5CX-BWSD
Panel Mount Adapter for H3CR/H5CX-L8 Series	Z885-ND◆	10.30	9.27	Y92F-30
Socket 8-Pin Octal Chassis Mount	Z883-ND◆	10.28	9.25	P3G-08
DIN Rail Mount Screw Terminal Socket, 8 Octal	Z2407-ND◆	6.77	6.27	P2CF-08

◆ ***RoHS Compliant***

Count Totalizer

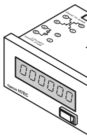

Omron's self-powered totalizing counters feature either no-voltage inputs, DC voltage only or combined AC/DC voltage inputs. Offered in both 1kHz input for high speed, no chatter input signals or 30/20 Hz inputs for relay and switch (high chatter) inputs.

Specifications: • Input: AC/DC voltage — 24 ~ 240VAC/VDC or 6 ~ 240VDC at "High" (logic) level • DC Voltage — 4.5 ~ 30VDC at "High" (logic) level • No-Voltage — Maximum short-circuit impedance: 10kΩ maximum • Reset Time: 20ms reset signal. • Instruction Sheet Included • Number of digits: 8 • Display: LCD Digital, 0.2 in. high. Replaceable battery.

Type of Input	Counting Speed	Term. Type	Reset Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
No-Voltage	30/1 kHz	Screw	Electrical	Z861-ND	47.92	44.37	41.42	H7EC-B
DC Voltage	30/1 kHz	Screw	Electrical	Z865-ND	49.80	46.11	43.04	H7EC-NV-B
AC/DC Volt.	20 Hz	Screw	Electrical	Z867-ND	48.62	45.03	42.03	H7EC-FBV
DC Voltage Input	30/1kHz	Screw	External/ Manual	Z1144-ND*	58.49	54.16	50.55	H7EC-NV-BH
Optional WW Terminal Set (2 Terminal/Pkg.)				Z2428-ND	2.07	1.92	1.80	Y92S-37-ND

*Backlight 24VDC

Time Totalizer

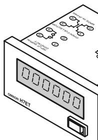

Omron's self-powered time totalizer displays cumulative time by counting the output signals received from a sensor. When the proper input has been applied, the timing circuit is enabled allowing the timer to start, disabling the inputs will stop the timing sequence. Key protect Switch to prevent front resetting. Replaceable battery.

Specifications: • Supply Voltage: Not required (powered by built-in battery) • Input: AC/DC voltage — 24 ~ 240VAC, or 6 ~ 240VDC at "High" (logic) level; DC voltage — 4.5 ~ 30VDC at "High" (logic) level No-voltage — Maximum short-circuit impedance: 10kΩ maximum Short-circuit residual voltage: 0.5V maximum. • Reset Time: 20 ms reset signal. • Terminal: Screw type • Instruction sheet included

Type of Input	Time Range	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
No-Voltage	0 ~ 999999.9h	w/o Backlight	Z870-ND	58.49	54.16	50.55	H7ET-B
DC Voltage only	0 ~ 999999.9h	w/o Backlight	Z872-ND	58.49	54.16	50.55	H7ET-BV
No-Voltage	0 ~ 999h59m59s	w/o Backlight	Z873-ND	68.04	63.00	58.80	H7ET-N1-B
AC/DC Voltage	0 ~ 999h59m59s	w/o Backlight	Z874-ND	75.40	69.82	65.17	H7ET-FBV1
AC/DC Voltage	0 ~ 999999.9h	w/o Backlight	Z875-ND	75.40	69.82	65.17	H7ET-FBV
DC Voltage Input	0 ~ 9999h59.9m	w/o Backlight	Z1149-ND	63.89	59.16	55.22	H7ET-NV1-B
DC Voltage Input	0 ~ 999h59m59s	with Backlight	Z1150-ND	63.89	59.16	55.22	H7ET-NV1-BH
DC Voltage Input	0 ~ 9999999.9h	with Backlight	Z2744-ND	70.96	65.70	61.32	H7ET-NV-BH

Tachometer Counters

Omron's self powered tachometers offer a large display (8.6mm) with various input types available. Selectable multiplier/divider network allows either RPM or RPS measurement. Comes with waterproofing gasket and panel mounting bracket. Screw terminal connections. 4 digits. Maximum counting speed 1kHz.

24 VDC Backlight	Type of Input	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
—	No Voltage	Z1145-ND	63.89	59.16	55.22	H7ER-N-B
—	DC Voltage	Z1146-ND	63.89	59.16	55.22	H7ER-NV-B
Yes	DC Voltage	Z1147-ND	69.53	64.38	60.09	H7ER-NV-BH
Yes	DC Voltage	Z2743-ND	72.90	67.50	63.00	H7ER-NV1-BH
—	DC Voltage	Z2742-ND	68.08	63.04	58.84	H7ER-NV1-B

Counter Accessories

Horizontal

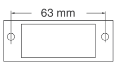

Vertical

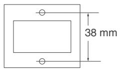

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Horizontal Panel Mounting Adapter for H7 Series	Z998-ND	3.29	3.05	Y92F-75
Vertical Panel Mounting Adapter for H7 Series	Z999-ND	3.29	3.05	Y92F-76

OMRON

Relay Timers DIN Rail

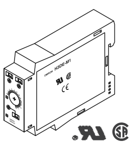

Features:

• Slim design for track mounting • Wide AC/DC power supply range (24 to 230VAC/DC) • Eight operating modes (H3DE-M) and four operating modes (H3DE-S) to cover a wide range of applications • Finger protection terminal block • Operating Mode: A: ON-delay (Signal or Power); B: Flicker OFF start (Signal or Power); B2: Flicker ON start (Signal or Power); C: Signal ON/OFF-delay; D: Signal OFF-delay; E: Interval (Signal or Power); G: Signal ON/OFF-delay; J: One-shot (Single or Power) For mounting track, use Z840-ND or Z841-ND

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
DIN Mount Timer – 8 Mode SPDT	Z1138-ND	42.99	39.81	37.16	H3DE-M1 AC/DC 24-230
DIN Mount Timer – 8 Mode DPDT	Z1139-ND	52.62	48.72	45.48	H3DE-M2 AC/DC 24-230
DIN Mount Timer – 4 Mode SPDT	Z1140-ND	32.66	30.24	28.23	H3DE-S1 AC/DC 24-230
DIN Mount Timer – 4 Mode DPDT	Z1141-ND	42.99	39.81	37.16	H3DE-S2 AC/DC 24-230

Digital Multi-Function Timer

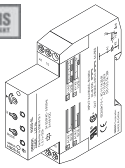

Features:

• Wide AC/DC power supply range (24 ~ 230 VAC/24 ~ 48 VDC) minimizes inventory • Smart Dial/Selector-Locking Mechanism prevents the dials and selectors on the timer's front panel from being operated without authorization • Eight operating modes (H3DS-M) and four operating modes (H3DS-S) to cover a wide range of applications • Offers wide time setting range of 0.10 second to 120 hours

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
DIN Mount Timer – On-Delay Only, No Enable Input, SPDT	Z2392-ND	30.78	28.50	26.60	H3DS-AL AC24-230/DC24-48
DIN Mount Timer – 4 Mode, No Enable Input, SPDT	Z2395-ND	32.66	30.24	28.23	H3DS-SL AC24-230/DC24-48
DIN Mount Timer – 8 Mode, with Voltage Input, SPDT	Z2393-ND	42.99	39.81	37.16	H3DS-ML AC24-230/DC24-48
DIN Mount Twin Timer – Indep. "On-Off" Settings, SPDT	Z2394-ND	50.74	46.98	43.85	H3DS-FL AC24-230/DC24-48

Digital Daily Timer

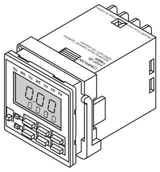

Features: • Precise control of both regular and special ON/OFF times. • Can be set for timed or pulsed operation, and for multiple-day operation

Specifications: • Operation: 1. Daily operation (Multiple-day operation possible) 2. Pulse-output operation (pulse width can be set in units of 1 second from 1 ~ 59 seconds and in units of 1 minute from 1 ~ 60 minutes) 3. Partial operation on specified day 4. Forced ON/OFF operation • Repeat accuracy: ±0.01% • Memory protection: 5 years minimum • Life expectancy: 50,000 operations minimum (15A, 250VAC, resistive load) • Operating Temperature: -10C° ~ 55°C

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Digital Daily Timer, Panel Mount	Z1142-ND	156.91	145.29	H5F-B
Digital Daily Timer, Track Mount	Z2440-ND	163.49	151.38	H5F-KB

Programmable Weekly Timer

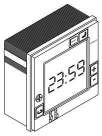

Features:

• Large LCD display with 7 day x 24 hour programming • Perfect for controlling On-Off cycles for lighting, industrial and security • Two independent 15A control circuits and 16 step front program options allows fast and easy program changes • Wire connections are made by screw terminals from either the front or the back

Specifications:

• Timer may be wall mounted, recessed into panel or din rail mounted • All mounting hardware and instructions are included • Optional protective hard plastic cover prevents accidental resetting and protects from dirt and water

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Programmable Timer 100 ~ 240VAC w/Manual Override	Z1000-ND	187.92	174.00	H5L-A
Clear Protective Cover (Hard Plastic) for H5L-A	Z1001-ND◆	10.25	9.17	00-907062-002

◆ *RoHS Compliant*

Programmable Weekly Timer

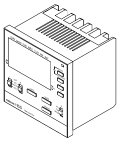

Features: • AM/PM display • Field-adjustable ON/OFF, cycle, and pulse output • A different program possible each day • Wide supply voltage range • Independent Day Keys provide easier operation • Temporary holiday setting function makes it easy to turn OFF output for holidays and non-operating days • Settings can be made even with the Time Switch turned off • Test mode enables easy program checking

Specifications: • Supply Voltage: AC 100 ~ 240V • Long-term Error: ±15 seconds per month • Maximum Load: 15A, 250VAC resistive load • Connections: Terminal screws • Minimum Load: 100mA, 5VDC • Operating Temperature: -10°C ~ 55°C • 50,000 operations minimum, 15A, 250VAC, resistive load

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Weekly Timer, Track/Chassis Mount Type, 120VAC	Z2503-ND	225.34	208.65	H5S-WFB2
Weekly Timer, Flush Panel Mount Type, 120VAC	Z2504-ND	225.34	208.65	H5S-WB2

Preset Counters

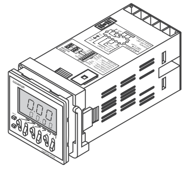

Omron's multifunction counters feature large reverse-lit LCD which can be programmed to change from green to red (or red to green), providing long-range status information. H7CX counters allow users to choose between batch counter, dual counter, single or dual stage preset counter, tachometer or totalizer operation.

Features: • Highly visible display with backlit negative transmissive LCD • NEMA4/ IP66 compliance • 1-2 Stage Counter • Case Color: Black • Reset Indicator: Orange • Key Protection Indicator: Orange • 12VDC External Power Supply • Output Type: Contact • Supply Voltage: 100 ~ 240VAC

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
4 Digit Counter, Relay Out, Screw Term., 12 ~ 24VAC	Z2739-ND	144.17	133.49	H7CX-A4D DC12-24
6 Digit Counter, Relay Out, 11 Octal, 100 ~ 240VAC	Z1662-ND	165.37	153.12	H7CX-A11-AC100-240
6 Digit Counter, Relay Out, 11 Octal, 12 ~ 24VAC	Z2738-ND	176.20	163.16	H7CX-A11D1 DC12-24/AC24
6 Digit Counter, Relay Out, Screw Term., 12 ~ 24VAC	Z2365-ND	135.30	125.28	H7CX-AD DC12-24
6 Digit Counter, Relay Out, Screw Term., 100 ~ 240VAC	Z1661-ND	156.91	145.29	H7CX-A-AC100-240
4 Digit Counter, Relay Out, Screw Term., 100 ~ 240VAC	Z2375-ND	160.67	148.77	H7CX-A114 AC100-240
4 Digit Counter, Relay Out, Screw Term., 100 ~ 240VAC	Z2376-ND	156.91	145.29	H7CX-A4-AC100-240
6 Digit Counter, Relay Out, Screw Term., 100 ~ 240VAC	Z2374-ND	156.91	145.29	H7CX-AS-AC100-240
6 Digit Counter, Relay Out, Screw Term., 12 ~ 24VAC, 2 Stage Type	Z2741-ND	213.84	198.00	H7CX-AWD1 DC12-24/AC24
6 Digit Counter, Relay Out, Screw Term., 100 ~ 240VAC, 2 Stage Type	Z2740-ND	213.84	198.00	H7CX-AW AC100-240

Preset Digital Counters

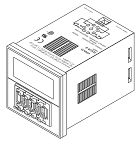

Features:

• Easy-to-read 8mm high LED display

• Uses Omron thumbwheel switching for easy, error-free presets

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
4 Digit, Up Counter, 5kHz, Input, 100 ~ 240VAC	Z2736-ND	238.14	220.50	H7CN-XHN-AC100-240
4 Digit, Up Counter, 30Hz, Input, 100 ~ 240VAC	Z2737-ND	226.26	209.51	H7CN-XLN-AC100240
4 Digit, Reversible Counter, 30Hz, Input, 100 ~ 240VAC	Z2735-ND	238.14	220.50	H7CN-BLN-AC100240

NEW! Monitoring Control Relays

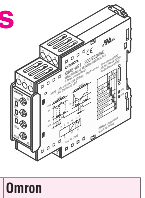

Omron's K8 series of Monitoring Relays are designed for industrial measurements, controls and fault detection. The K8AB-AS are single phase, current monitoring relays to monitor both under-current or over current conditions. The K8AB-PH is a 3 Phase, phase-loss monitoring relay for reventing incorrect motor rotation and incorrect wiring. The K8AB-TH are temperature monitoring relays for detecting upper and lower temperature limits. Selectable for J, K, T, E and Platinum Sensor Inputs.

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Current Monitor, Over-Under, 2 ~ 500mA	Z2803-ND	106.92	99.00	92.40	K8AB-AS1-100-115VAC
Current Monitor, Over-Under, 2 ~ 500mA	Z2804-ND	99.14	91.80	85.68	K8AB-AS1-200-230VAC
Current Monitor, 0.1 ~ 8A, Over-Under	Z2805-ND	131.22	121.50	113.40	K8AB-AS2-100-115VAC
Single Phase Monitor, 3PH, 200 ~ 500VAC	Z2806-ND	39.85	36.90	34.44	K8AB-PH1
3 Phase Monitor, 3PH, 380 ~ 480VAC	Z2807-ND	89.42	82.80	77.28	K8A-BPW2
Temp. Monitor, 0 ~ 399°C/F, 100 ~ 240VAC	Z2808-ND	92.34	85.50	79.80	K8AB-TH11S-AC100-240
Temp. Monitor, 0 ~ 399°C/F, 24V	Z2809-ND	92.34	85.50	79.80	K8AB-TH11S-ACDC24
Temp. Monitor, 0 ~ 1700°C, 100 ~ 240VAC	Z2810-ND	92.34	85.50	79.80	K8AB-TH12S-AC100-240
Temp. Monitor, 0 ~ 1700°C, 24V	Z2811-ND	92.34	85.50	79.80	K8AB-TH12S-ACDC24

Digital Temperature Controllers

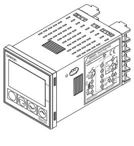

Features: • Voltage outputs (used to drive SSRs) for both heating and cooling control • Can be used for alarms to provide three alarm outputs • Easy setting with 11-segment displays • Connect to either a thermocouple or platinum resistance thermometer with the protection indicator informs operator when protection is enabled • Manual output provided

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Relay Output, 2 Alarms	Z2409-ND	166.31	153.99	143.73	E5CN-R2MT-500-AC100240
Voltage Output, 2 Alarms	Z2410-ND	166.34	154.02	143.76	E5CN-Q2MT-500-AC100240
Voltage Output, No Alarm	Z2411-ND	157.85	146.16	136.42	E5CN-QMT-500-ACDC24

Digital Temperature Controllers

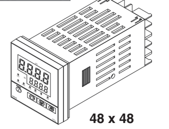

48 x 48

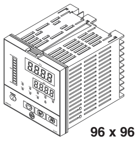

96 x 96

Features: • Advanced digital process with fuzzy logic • Field configurable outputs and options • 100 ms sampling (for analog input) • Advanced PID, or fuzzy self-tuning • Water-resistant, NEMA 4X, IP66 • Remote set-point with optional event input board • Set-point ramp • Heat only or heat/cool control

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Standard Model, 96x96 mm	Z2412-ND	444.43	411.51	384.08	E5AK-AA2-500
Position-Proportional Model, 96x96 mm	Z2413-ND	484.83	448.92	419.00	E5AK-PRR2-500
Standard Model, 48x48 mm	Z2414-ND	249.93	231.42	216.00	E5CK-AA1-500
Optional Current Transformer for 0-50A Heater Burnout	Z2416-ND	22.55	20.88	19.49	E54-CT1

Tyco Electronics
Authorized Distributor

P&B
OEG AXICOM
SCHRACK

Timers/Time Delay Relays

Potter & Brumfield timer relays are versatile time/function adjustable relays for industrial and time delay type applications. By setting the timing mode, selecting the time duration and applying 120VAC to power the timing circuitry, a dry contact relay will trip On or Off at the end of the set time. Delay-On or Delay-Off modes will start upon power up and delay turning the relay output On or Off for the user selected time. Using the Cycle or Repeat Mode will put the timer in a continuous On and Off cycle where the time On and time Off are equal lengths. Model CRB relays enable separate On and Off adjustable times for Cycle timing.

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Mfg. Part No.
1	Thumbwheel Selectable, Time Delay Relay, 0.1 Second ~ 9.99K Hours, DPDT, 10A, 120VAC, 11 Octal	PB555-ND◆	83.66	73.21	66.24	CNM5
2	Dial Adjustable, Time Delay Relay, 4 Function, DPDT, 10A ,120VAC, 8 Octal	PB556-ND◆	77.74	68.02	61.55	CNS-35-72
	Dial Adjustable, Time Delay Relay, 8 Function, DPDT, 10A ,120VAC, 11 Octal	PB557-ND◆	77.74	68.02	61.55	CNS-35-76
	Dial Adjustable, Time Delay Relay, 4 Function, DPDT, 10A, 24 ~ 240VAC/VDC, 8 Octal	PB670-ND◆	86.64	75.81	68.59	CNS-35-92
	Dial Adjustable, Time Delay Relay, 8 Function, DPDT, 10A, 24 ~ 240VAC/VDC, 11 Octal	PB558-ND◆	103.30	90.39	81.78	CNS-35-96
3	Thumbwheel Selectable, Digital Time Delay Relay, DPDT, 10A, 12VDC, 11 Octal	PB559-ND◆	114.02	99.78	90.27	CNT-35-26
	Thumbwheel Selectable, Digital Time Delay Relay, DPDT, 10A, 120VAC, 11 Octal	PB560-ND◆	114.02	99.78	90.27	CNT-35-76
	Thumbwheel Selectable, Digital Time Delay Relay, DPDT, 10A, 24 ~ 240VAC/VDC, 11 Octal	PB561-ND◆	132.24	115.71	104.69	CNT-35-96
	Mounting Ratchet-fit Clip Slides onto CNT from Behind to Secure CNT in Panel Mount Applications	PB1143-ND◆	25.75	22.54	16.10	SSA-24C667
4	Knob Adjustable, Delay-On Relay, 0.1 ~ 10 Seconds, 10A, 120VAC for Socket use 27E893	PB562-ND◆	114.50	100.20	90.65	CLB-51-70010
	Resistor Adjustable, Delay-On Relay, 0.1 ~ 10 Seconds, 10A, 120VAC for Socket use 27E893	PB563-ND◆	113.14	99.00	89.57	CLF-41-70010
5	Knob Adjustable, Delay-On Relay, 0.1 ~ 1 Seconds, 120VAC, 8 Octal	PB564-ND◆	104.81	91.71	82.98	CB-1001B-70
	Knob Adjustable, Delay-On Relay, 0.1 ~ 5 Seconds, 120VAC, 8 Octal	PB671-ND◆	104.81	91.71	82.98	CB-1002B-70
	Knob Adjustable, Delay-On Relay, 0.1 ~ 10 Seconds, 120VAC, 8 Octal	PB565-ND◆	104.81	91.71	82.98	CB-1003B-70
	Knob Adjustable, Delay-On Relay, 0.6 ~ 60 Seconds, 120VAC, 8 Octal	PB566-ND◆	104.81	91.71	82.98	CB-1004B-70
	Knob Adjustable, Delay-On Relay, 1.8 ~ 180 Seconds, 120VAC, 8 Octal	PB567-ND	104.81	91.71	82.98	CB-1005B-70
	Knob Adjustable, Delay-On Relay, 10 ~ 100 Minutes, 120VAC, 8 Octal	PB569-ND◆	104.81	91.71	82.98	CB-1007B-70
	Knob Adjustable, Delay-On Relay, 0.1 ~ 10 Seconds, 24VDC, 8 Octal	PB570-ND◆	104.81	91.71	82.98	CB-1028D-30
	Knob Adjustable, Delay-On Relay, 0.1 ~ 10 Seconds, 12VDC, 8 Octal	PB571-ND◆	104.81	91.71	82.98	CB-1047D-20
	Knob Adjustable, Delay-On Release Relay, 1.8 ~ 180 Seconds, 10A, 120VAC, 8 Octal	PB753-ND◆	230.90	202.05	182.80	CDB-38-70005
	Knob Adjustable, Delay-On Relay, 1 ~ 10 Seconds, DPDT, 10A, 24VAC, 8 Octal	PB572-ND◆	129.96	113.72	102.89	CHB-38-30001
	Knob Adjustable, Delay-On Relay, 1 ~ 10 Seconds DPDT, 10A, 120VAC, 8 Octal	PB574-ND◆	129.96	113.72	102.89	CHB-38-70001
	Knob Adjustable, Delay-On Relay, 1 ~ 60 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB575-ND◆	129.96	113.72	102.89	CHB-38-70002
	Knob Adjustable, Delay-On Relay, 1 ~ 180 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB576-ND◆	129.96	113.72	102.89	CHB-38-70003
	Knob Adjustable Interval Relay, 1 ~ 10 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB754-ND◆	129.96	113.72	102.89	CHB-38-70021
	Knob Adjustable Delay-On Relay, 1 ~ 10 Seconds, DPDT, 10A, 24VDC, 8 Octal	PB755-ND◆	129.96	113.72	102.89	CHD-38-30001
	Knob Adjustable, Delay-On Relay, 1 ~ 60 Seconds, DPDT, 10A, 24VDC, 8 Octal	PB577-ND	129.96	113.72	102.89	CHD-38-30002
6	Recycle Time Delay Relay, 0.1 ~ 10 Seconds, On-Off Time Adjustments, DPDT, 10A, 120VAC, 8 Octal	PB580-ND	254.57	222.75	201.54	CRB-48-70010
	Recycle Time Delay Relay, 0.6 ~ 60 Seconds, On-Off Time Adjustments, DPDT, 10A, 120VAC, 8 Octal	PB582-ND◆	254.57	222.75	201.54	CRB-48-70060
	Recycle Time Delay Relay, 1.8 ~ 180 Seconds, On-Off Time Adjustments, DPDT, 10A, 120VAC, 8 Octal	PB583-ND◆	254.57	222.75	201.54	CRB-48-70180
7	External Pot Adjustable On-Delay SSR, 0.5 ~ 10 Seconds, 1A, 24VAC/VDC, Cube Module	PB783-ND◆	43.82	38.35	34.70	VTM1ECD
	External Pot Adjustable On-Delay SSR, 3 ~ 60 Seconds, 1A, 24VAC/VDC, Cube Module	PB784-ND◆	43.82	38.35	34.70	VTM1EDD
8	Screwdriver Adjustable, Time Delay Relay, 4 Function, 0.1 Seconds ~ 10 Hours, with K10 Relay, 120VAC	PB781-ND◆	183.41	160.49	145.20	SSFR90A
	Screwdriver Adjustable, Time Delay Relay, 4 Function, 0.1 Seconds ~ 10 Hours, without K10 Relay	PB782-ND◆	175.90	153.91	139.26	SSFR90X
—	Resistor Adjustable Delay-On Relay, 1 ~ 10 Seconds, 10A, 120VAC, for Socket use 27E893	PB762-ND◆	115.58	101.14	91.51	CUF-41-70010
	Resistor Adjustable Delay-On Relay, 1 ~ 12 Seconds, 10A, 120VAC, for Socket use 27E893	PB763-ND◆	115.58	101.14	91.51	CUF-41-70120
	Knob Adjustable Delay-On Relay, 0.1 ~ 10 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB756-ND◆	129.96	113.72	102.89	CKB-38-70010
	Resistor Adjustable Delay-On Relay, 0.1 ~ 10 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB757-ND◆	126.24	110.46	99.94	CKF-38-70010
	Adjustable Voltage Sensor Relay, 92 ~ 140VAC, 90 ~ 138VDC Dropout, 10A, 8 Octal	PB584-ND◆	176.09	154.08	139.41	CSJ-38-70010

◆ ***RoHS Compliant***

Fig. 1 – CNM5 Series

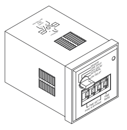

Fig. 2 – CNS Series

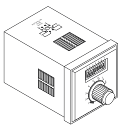

Fig. 3 – CNT Series

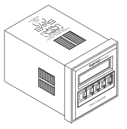

Fig. 4 – CLB and CLF Series

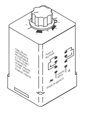

Fig. 5 – CB, CHB, CHD, CDB Series

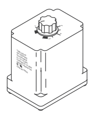

Fig. 6 – CRB Series

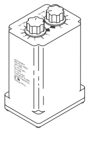

Fig. 7 – VTM Series

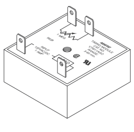

Fig. 8 – SSFR Series

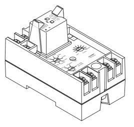

OMRON

Programmable Relays — PLC Controller

RoHS COMPLIANT

The ideal solution for managing a wide range of simple applications including: automatic lighting, access control, conveyor positioning, pump control, testing equipment, watering systems, or ventilation systems.

Features:
• Increased functionality in a compact body (70mm wide x 90mm high) • Easy programming is available using the LCD and operation buttons • Single unit easily provides relay, timer, counter, and time switch functions • Expansion is easy with Expansion I/O Units, allowing up to 44 I/O points

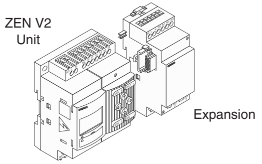

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
CPU Unit with LCD Display, 10 I/O Points with 4 Relay Outputs, 100 ~ 240VAC	Z2678-ND	111.78	103.50	96.60	ZEN-10C1AR-A-V2
CPU Unit with LCD Display, 10 I/O Points with 4 Relay Outputs, 12 ~ 24VDC	Z2679-ND	111.78	103.50	96.60	ZEN-10C1DR-D-V2
CPU Unit with LED Display, 10 I/O Points with 4 Relay Outputs, 100 ~ 240VAC	Z2680-ND	97.20	90.00	84.00	ZEN-10C2AR-A-V2
CPU Unit with LED Display, 10 I/O Points with 4 Relay Outputs, 12 ~ 24VDC	Z2681-ND	97.20	90.00	84.00	ZEN-10C2DR-D-V2
CPU Unit with LCD Display, 20 I/O Points with 4 Relay Outputs, 100 ~ 240VAC	Z2682-ND	150.66	139.50	130.20	ZEN-20C1AR-A-V2
CPU Unit with LCD Display, 20 I/O Points with 4 Relay Outputs, 12 ~ 24VDC	Z2683-ND	150.66	139.50	130.20	ZEN-20C1DR-D-V2
CPU Unit with LED Display, 20 I/O Points with 4 Relay Outputs, 100 ~ 240VAC	Z2684-ND	136.08	126.00	117.60	ZEN-20C2AR-A-V2
CPU Unit with LED Display, 20 I/O Points with 4 Relay Outputs, 12 ~ 24VDC	Z2685-ND	136.08	126.00	117.60	ZEN-20C2DR-D-V2
ZEN Starter Kit, 10 I/O Points with Cable, Software and Manual	Z2686-ND	250.13	231.60	216.16	ZEN-STARTER01-V2
ZEN Starter Kit, 10 I/O Points with Cable, Software and Manual	Z2687-ND	250.13	231.60	216.16	ZEN-STARTER02-V2
Expandable I/O Block, 4 Inputs / 4 Outputs for AC CPU Unit	Z2688-ND	67.57	62.57	58.40	ZEN-8E1AR
Expandable I/O Block, 4 Inputs / 4 Outputs for DC CPU Unit	Z2689-ND	67.57	62.57	58.40	ZEN-8E1DR
ZEN Software Support Package with Manuals	Z2690-ND	38.88	36.00	33.60	ZEN-SOFT01-V4
Battery Unit for 10 year Memory Protection	Z2691-ND	36.29	33.60	31.36	ZEN-BAT01
Connecting Cable, Serial to ZEN Connector, 2 Meters	Z2692-ND	84.32	78.08	72.88	ZEN-CIF01
Memory Expander, EEPROM (used to copy programs to multiple units)	Z2693-ND	30.38	28.13	26.25	ZEN-ME01

E5CSV Digital Temperature Controllers

RoHS COMPLIANT

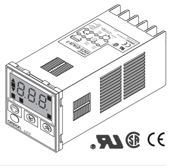

Features: • Accurate to ±0.5% of full scale • Multiple temperature scale ranges allow flexibility to match application • Field-selectable temperature ranges in °F and °C • Selectable ON/OFF and PID control with auto-tuning of proportional band • 8-function alarm, standard • Tamper-proof setting, faulty sensor compensation and controller diagnostics • Easy-to-read 11mm high LED display • Nonvolatile memory backup

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Thermocouple (Types J and K), Voltage Output, 120VAC Blk.	Z2546-ND	178.52	165.30	154.28	E5CSV-Q1T-F-AC100240
Thermocouple (Types J and K), Relay Output, 100 ~ 240VAC	Z2694-ND	184.68	171.00	159.60	E5CSV-R1KJ-W-AC100240
Thermocouple (Platinum), Relay Output, 100 ~ 240VAC	Z2695-ND	184.68	171.00	159.60	E5CSV-R1T-F-AC100240

Digital Temperature Controllers

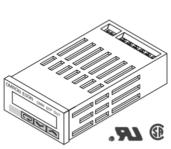

Omron's E5GN Temperature Controllers are 1/32 DIN sized controllers that accept any thermocouple or analog input. These are used for both heating and cooling and also feature NEMA 4X water-resistant construction.

Specifications:

• Supply voltage: 100 ~ 240VAC, 50/60Hz • Operating Temperature: -10°C ~ 55°C • Sensor Input: Thermocouple: K, J, T, E, L, U, N, R, S, B • Control Output: Relay Output: SPST-NO, 250VAC 2A (resistive load) • Indication Accuracy: Thermocouple: (±0.5% of indicated value) • Voltage Output: 12VDC (PNP) Maximum Load Current: 21mA, with short-circuit protection

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Digital Temperature Controller Volt Output	Z1130-ND	196.38	181.83	E5GN-Q1TC AC/DC24
Digital Temperature Controller Volt Output	Z1131-ND	196.38	181.83	E5GN-Q1TC AC100-240
Digital Temperature Controller Relay Output	Z1132-ND	196.38	181.83	E5GN-R1TC AC/DC24
Digital Temperature Controller Relay Output	Z1133-ND	196.38	181.83	E5GN-R1TC AC100-240

Crouzet **NEW!** Millenium 3 Relay Controllers

Crouzet's latest generation of controllers is the Millenium 3 Logic Controllers. The Millenium 3 is even easier to program for simple timing, counting or control applications such as heating and air controls-zones, greenhouse controls, complex car wash cycles and industrial controls. Starter kit's include everything required to create, communicate and run your ladder logic program. Offered in 3 different versions, Standard type, Expandable type and Economy type.

Dimensions in Inches (mm)

Fig.	Description	Dim. A (mm)	Voltage Supply	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
1	Economy Mil 3 Controller, No display, 8 In/4 Out, CB12	71.2	100 ~ 240VAC	646-1091-ND	134.03	132.39	126.01	88970021
	Economy MII 3 Controller, No display, 8 In/4 Out, CB12	71.2	100 ~ 240VAC	646-1092-ND	135.88	134.22	127.75	88970023
	Economy Mil 3 Controller, No display, 12 In/8 Out, CB20	124.6	24VDC	646-1093-ND	199.66	197.21	187.71	88970031
	Economy Mil 3 Controller, No display, 12 In/8 Out, CB20	124.6	100 ~ 240VDC	646-1094-ND	207.98	205.43	195.53	88970033
2	Standard Mil 3 Controller, with LCD Display, 8 In/4 Out, CD12	71.2	24 VDC	646-1095-ND	149.75	147.91	140.78	88970041
	Standard Mil 3 Controller, with LCD Display, 8 In/4 Out, CD12	71.2	24 VDC	646-1096-ND	156.22	154.30	146.87	88970042
	Standard Mil 3 Controller, with LCD Display, 8 In/4 Out, CD12	71.2	100 ~ 240VAC	646-1097-ND	151.60	149.74	142.52	88970043
	Standard Mil 3 Controller, with LCD Display, 8 In/4 Out, CD12	71.2	24VAC	646-1098-ND	149.75	147.91	140.78	88970044
	Standard Mil 3 Controller, with LCD Display, 8 In/4 Out, CD12	71.2	12VDC	646-1099-ND	149.75	147.91	140.78	88970045
	Standard Mil 3 Controller, with LCD Display, 12 In/8 Out, CD20	124.6	24VDC	646-1100-ND	215.38	212.73	202.48	88970051
	Standard Mil 3 Controller, with LCD Display, 12 In/8 Out, CD20	124.6	100 ~ 240VAC	646-1101-ND	220.92	218.21	207.70	88970053
	Expandable Type Mil 3 Controller, with LCD Display, 6 In/4 Out, XD10	71.2	24VDC	646-1114-ND	166.39	164.34	156.42	88970141
	Expandable Type Mil 3 Controller, with LCD Display, 6 In/4 Out, XD10	71.2	100 ~ 240VAC	646-1115-ND	163.61	161.61	153.82	88970143
	Expandable Type Mil 3 Controller, with LCD Display, 16 In/10 Out, XD26	124.6	24VDC	646-1116-ND	226.47	223.69	212.91	88970161
	Expandable Type Mil 3 Controller, with LCD Display, 16 In/10 Out, XD26	124.6	100 ~ 240VAC	646-1117-ND	234.79	231.91	220.73	88970163
	Millenium 3 Starter Kits							
—	Millenium 3 Starter Kit, 8 In/4 Out	—	24VDC	646-1102-ND	240.34	237.38	225.94	88970080
	Millenium 3 Starter Kit, 8 In/4 Out	—	100 ~ 240VAC	646-1103-ND	246.81	243.78	232.03	88970081
	Millenium 3 Starter Kit, 12 In/8 Out	—	24VDC	646-1104-ND	241.26	238.30	226.81	88970082
	Millenium 3 Starter Kit, 12 In/8 Out	—	100 ~ 240VAC	646-1105-ND	295.80	292.16	278.08	88970083
	Millenium 3 Starter Kit, Expandable Type, 16 In/10 Out	—	24VDC	646-1106-ND	248.66	245.60	233.77	88970084
	Millenium 3 Starter Kit, Expandable Type, 16 In/10 Out	—	100 ~ 240VAC	646-1107-ND	256.05	252.91	240.72	88970085
	Millenium 3 Accessories							
—	M3 Programming Software Kit (CD ROM)	—	—	646-1108-ND	16.18	15.99	15.22	88970100
	M3 Specific Functions Library Kit (CD ROM)	—	—	646-1109-ND	9.34	9.23	8.79	88970103
	M3 Bluetooth Interface Module	—	—	646-1110-ND	195.97	193.56	184.23	88970104
	M3 EEPROM Memory Cartridge	—	—	646-1111-ND	26.54	26.22	24.95	88970108
	USB Cable to Millenium 3, 3 meter	—	—	646-1112-ND	67.48	66.65	63.44	88970109
3	Modbus Modem Interface Module, 3 meter	—	—	646-1113-ND	228.32	225.52	214.65	88970117
	Converter Module, 0-20mA/0-10VDC, Din Mount	—	—	646-1079-ND	25.24	24.94	23.74	88950108
	Converter Module, PWM/0-10VDC, Din Mount	—	—	646-1080-ND	40.40	39.91	37.99	88950112
	Temperature Converter Module, PT1000/PT100 J and K Inputs	—	—	646-1081-ND	81.34	80.35	76.48	88950150
	Temperature Converter Module, J Type Thermocouple	—	—	646-1083-ND	81.34	80.35	76.48	88950154
	Temperature Converter Module, K Type Thermocouple	—	—	646-1084-ND	81.34	80.35	76.48	88950155
	XA0 4 Analog Extension Module, 2 Analog In/2 Analog/PWM Out	—	24VDC	646-1124-ND	174.71	172.56	164.25	88970241
	XN03 Modbus RS-485 Slave Communication Extension	—	24VDC	646-1125-ND	130.34	128.74	122.53	88970250
	XN05 Ethernet Slave Communication Extension	—	24VDC	646-1126-ND	234.79	231.91	220.73	88970270
	Relay Expander Module, No display, 4 On/Off/2 Out, XR06	71.2	24VDC	646-1118-ND	81.34	80.35	76.48	88970211
	Relay Expander Module, No display, 4 On/Off/2 Out, XR06	71.2	100 ~ 240VAC	646-1119-ND	83.19	82.17	78.21	88970213
	Relay Expander Module, No display, 6 On/Off/4 Relay, XR10	71.2	24VDC	646-1120-ND	95.21	94.04	89.51	88970221
	Relay Expander Module, No display, 6 On/Off/4 Relay, XR10	71.2	100 ~ 240VAC	646-1121-ND	96.13	94.96	90.38	88970223
	Relay Expander Module, No display, 8 On/Off/6 Relay, XR14	124.6	24VDC	646-1122-ND	104.45	103.17	98.20	88970231
	Relay Expander Module, No display, 8 On/Off/6 Relay, XR14	124.6	100 ~ 240VDC	646-1123-ND	105.38	104.09	99.07	88970233
	Relay Expander Module, 6TOR/4Relay, XE10	—	24VDC	646-1127-ND	95.21	94.04	89.51	88970321
	Relay Expander Module, 6TOR/4Relay, XE10	—	100 ~ 240VAC	646-1128-ND	96.13	94.96	90.38	88970323
4	Switch Mode, Power Supply, 7.5W, 24VDC	36	100 ~ 240VAC	646-1086-ND	85.04	84.00	79.95	88950303
	Switch Mode, Power Supply, 15W, 24VDC	36	100 ~ 240VAC	646-1087-ND	82.27	81.26	77.35	88950304
	Switch Mode, Power Supply, 20W, 5VDC	54	100 ~ 240VAC	646-1088-ND	92.44	91.30	86.90	88950305
	Switch Mode, Power Supply, 25W, 12VDC	54	100 ~ 240VAC	646-1089-ND	92.44	91.30	86.90	88950306
	Switch Mode, Power Supply, 30W, 24VDC	54	100 ~ 240VAC	646-1090-ND	92.44	91.30	86.90	88950307
	Switch Mode, Power Supply, 60W, 24VDC	72	100 ~ 240VAC	646-1085-ND	118.32	116.87	111.24	88950302

Fig. 1

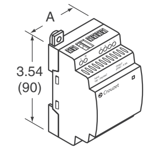

Fig. 2

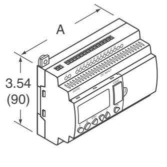

Fig. 3

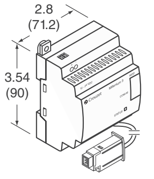

Fig. 4

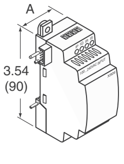

NEW! HMI Interactive Displays

Human to Machine Interface displays are an LCD display that is fully customizable for the purpose of machine control and display feedback to the operator. Intended to be connected via Modbus communication network to interface with the Millenium 3 controllers offering a fully configurable HMI Interface and controller. The Runtime Kit is intended as an additional display kit once your program and display has been developed.

The Runtime Kit includes: 1 three-color or monochrome LCD screen and 1 Modbus extension XN03 with 1 RS485 cable. The Programming Kit is intended for development of display functions and contains 1 three-color or monochrome LCD screen and 1 Modbus extension XN03, 1 RS485 cable and 1 programming software package for the display with a compatible RS232 cable.

Dim. in Inches (mm)

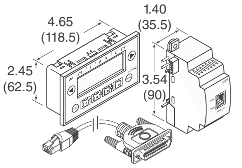

Runtime Kit Shown

Description	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
Runtime Kit with 3 Color Display	646-1129-ND	598.99	591.63	563.12	88970421
Runtime Kit with Monochrome Display	646-1130-ND	415.97	410.85	391.05	88970422
Programming Kit with Monochrome Display	646-1131-ND	447.39	441.90	420.60	88970844
Programming Kit with 3 Color Display	646-1132-ND	630.42	622.67	592.66	88970849

NEW! Control Relays

Crouzet's liquid level control relay's are designed for control of upper and lower liquid levels. The resistive probe style is for conductive liquids measuring the resistance of two submerged probes. The level switch type uses a contact closure for control of the upper and lower liquid levels. Internal control relay is rated at 5A, SPDT for turning on pumps or larger relays.

Dim. in Inches (mm)

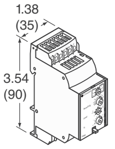

Specifications: Wide input voltage: 24 ~ 240VAC/DC

Description	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
Liquid Level, Resistive Probe Input, Din Mount	646-1163-ND	125.71	124.17	118.19	84870700
Liquid Level, Float Switch Input, Din Mount	646-1164-ND	119.24	117.78	112.11	84870710
Liquid Level Pump Control, 120VAC, Din Mount	646-1162-ND	52.69	52.05	49.54	84870203
Pump Down Control, 8 Octal, 110VAC	646-1165-ND	47.14	46.57	44.32	PNR110A
Pump Up Control, 8 Octal, 110VAC	646-1166-ND	45.48	44.92	42.76	PNRU110A
Din Rail Socket, 8 Octal	646-1167-ND	6.10	6.03	5.74	S08

NEW! Monitor Relays

Crouzet's Industrial monitoring relays are preset able liquid level, voltage, current or phase monitoring relays. Liquid level monitoring relays are designed for the purpose of filling or emptying liquid storage containers. Use voltage and current relays for the purpose of monitoring over voltage/current or under voltage/current conditions. Phase monitoring relays are designed for the purpose of monitoring correct phase and phase failure conditions.

Dimensions in Inches (mm)

Fig. 1

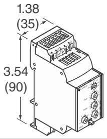

Fig. 2

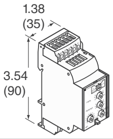

Fig. 3

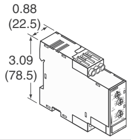

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Crouzet Part No.
1	3-Ph. Failure, Sequence Detection Relay	646-1133-ND	71.18	70.31	84873020
	3-Ph. Failure, Sequence Detection Relay	646-1134-ND	82.27	81.26	84873022
	3-Ph. Failure, Sequence, Undervoltage, Detection	646-1135-ND	85.97	84.91	84873023
	3-Ph. Failure, Sequence, Imbalance Detection	646-1136-ND	85.97	84.91	84873024
	3-Ph. Failure, Sequence, Imbalance, Undervoltage, Detection	646-1137-ND	87.82	86.74	84873025
	3-Ph. Failure, Sequence, Over/Under Voltage, Detection	646-1138-ND	111.85	110.48	84873026
	3-Ph. Failure, Under/Over Voltage	646-1139-ND	116.47	115.04	84873220
	3-Ph. Failure, Under/Over Voltage	646-1140-ND	117.39	115.96	84873221
2	Voltage Relay, 120VAC, Under/Over Voltage	646-1141-ND	80.42	79.44	84872023
	Voltage Relay, 120VAC, Under/Over Voltage	646-1142-ND	80.42	79.44	84872033
	Voltage Relay, 24 ~ 240VAC, Under/Over Voltage	646-1143-ND	119.24	117.78	84872120
	Voltage Relay, 24 ~ 240VAC, Over/Under Voltage	646-1144-ND	118.32	116.87	84872130
	Voltage Relay, 110 ~ 240VAC, Over/Under Voltage	646-1145-ND	86.89	85.83	84872142
	Voltage Relay, 110 ~ 240VAC, Over/Under Voltage	646-1146-ND	85.97	84.91	84872152
	Voltage Relay, 110VAC, Over/Under Voltage	646-1147-ND	70.25	69.39	DUR110A
3	Current Relay, 110VAC, .2 ~ 500mA	646-1148-ND	85.04	84.00	84871023
	Current Relay, 110VAC, 0.1 ~ 10A	646-1149-ND	85.04	84.00	84871033
	Current Relay, 24 ~ 240V, 2 ~ 500mA	646-1150-ND	119.24	117.78	84871120
	Current Relay. 2A ~ 20A, with built in Current Transformer	646-1151-ND	112.77	111.39	84871122
	Current Relay, 0.1 ~ 10A, with built in Current Transformer	646-1152-ND	136.81	135.13	84871130
	Current Relay, 5 ~ 100A	646-1153-ND	70.25	69.39	DIART110A
	Current Transformer for LIRT/DIART	646-1154-ND	29.39	29.04	74525305
	Current Transformer for LIRT/DIART, 5 ~ 100A, 11 Octal	646-1155-ND	74.87	73.96	LIRT110A
—	Frequency Relay 50 ~ 60Hz	646-1156-ND	123.87	122.35	84872501
	Speed Control, over/under	646-1157-ND	121.09	119.61	84874320
	Alternating Relay, Impulse, 110VAC, 11 Octal	646-1158-ND	59.16	58.44	LJR2110A
	Alternating Relay, Impulse, 110VAC, 11 Octal	646-1159-ND	59.16	58.44	LJRS2110A
	Alternating Relay, Impulse, 110VAC, 8 Octal	646-1160-ND	39.48	39.00	PJR110A
	Alternating Relay, Impulse, 110VAC, 8 Octal	646-1161-ND	61.01	60.26	PJRS110A

Crouzet

NEW! Totalizing Counters

Crouzet's fully integrated totalizing counter or total cumulative time counters. Choose between no-voltage inputs (contact closure) or wide in put voltage inputs (AC/DC) for count inputs or for enabling the time duration for the time counters. Presetable counters have internal output relay to trigger when preset count is reached. All counters are cUL and CE approved.

Specifications: • Power: Lithium Battery • Count Inputs: Contact Closure (slow speed), Voltage Input (high speed) • Low Speed: 40Hz • Minimum Pulse: 12ms • High Speed: 7kHz, 4 ~ 30VDC • Connections: Screw Terminals • Operating Temperature: 32°F ~ 131°F

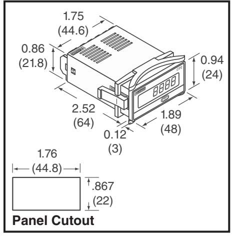

Description	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
Counter, Voltage Input, 8 Digit, 40cps max.	646-1194-ND	74.67	74.37	70.79	87610050
Total Time Indicator, Voltage Input, 6 Digit, Hrs	646-1195-ND	74.67	74.37	70.79	87610150
Counter, No Voltage Input, 8 Digit	646-1196-ND	27.63	27.53	26.20	87610340
Total Time Indicator, No Voltage Input, 6 Digit	646-1197-ND	27.63	27.53	26.20	87610440
Presetable Counter, 115VAC, LCD, SPDT	646-1198-ND	165.20	164.54	156.61	87620113
Presetable Counter, 115VAC, LCD, DPDT	646-1199-ND	192.27	191.50	182.27	87620123

NEW! Analog Timer Controls

Couzet's Chronos series of timers are their newest timers with improved features such as greater accuracy, LED status indicator, 3 wire sensor control option and a heavy duty 10A relay. Perfect for all delay-on/off functions as well as Interval timing, repetitive cycle timing and remote triggered sequence timing. All timers are cUL and CE approved.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Crouzet Part No.
1	Digital Timer, 6 Mode, 24 ~ 220V, 8 Octal	646-1168-ND	98.10	97.71	93.00	88857005
	Digital Timer with Backlight, 6 Mode, 24 ~ 220V	646-1169-ND	128.70	128.19	122.01	88857607
2	Analog Timer, 6 Mode, 12 ~ 240V, 11 Octal	646-1170-ND	57.60	57.37	54.61	88886016
	Analog Timer, Delay on only, 12 ~ 240V, 8 Octal	646-1171-ND	57.60	57.37	54.61	88886106
	Analog Timer, 4 Mode, 12 ~ 240V, 11 Octal	646-1172-ND	57.60	57.37	54.61	88886516
	Analog Din Rail Timer, 10 Mode, 24 ~ 240V	646-1173-ND	46.80	46.62	44.37	88826105
	Analog Din Rail Timer, Delay On, 24 ~ 240V	646-1174-ND	32.48	32.36	30.80	88826115
	Analog Din Rail Timer, Single Shot, 24 ~ 240V	646-1175-ND	39.33	39.18	37.29	88826125
	Analog Din Rail Timer, Delay On, 24 ~ 240V	646-1176-ND	39.33	39.18	37.29	88826135
	Analog Din Rail Timer, Interval, 24 ~ 240V	646-1177-ND	32.48	32.36	30.80	88826145
	Analog Din Rail Timer, Repeat Cycle, 24 ~ 240V	646-1178-ND	40.05	39.89	37.97	88826155
	Analog Din Rail Timer, Multifunction, 12 ~ 240V	646-1179-ND	56.70	56.48	53.76	88826103
	Analog Timer, Multifunction, 24 ~ 240V, 8 Octal	646-1186-ND	46.80	46.62	44.37	88867105
	Analog Timer, Delay On, 24 ~ 240V, 8 Octal	646-1187-ND	40.68	40.53	38.57	88867135
	Analog Timer, Repeat Cycle, 24 ~ 240V, 8 Octal	646-1188-ND	44.37	44.19	42.06	88867155
	Analog Timer, Delay On, 8 Octal	646-1189-ND	38.88	38.73	36.87	88867215
	Analog Timer, Repeat Cycle, 8 Octal	646-1190-ND	46.80	46.62	44.37	88867801
	Analog Timer, Multifunction, 8 Octal	646-1191-ND	47.70	47.51	45.22	88867100
	Analog Timer, Multifunction, 11 Octal	646-1192-ND	66.60	66.34	63.14	88867305
	Analog Timer, Repeat Cycle, 11 Octal	646-1193-ND	62.10	61.86	58.88	88867455
3	Dual Din Rail Timer, Delay On, 24 ~ 24V	646-1180-ND	32.67	32.54	30.97	88865115
	Dual Din Rail Timer, Repeat Cycle	646-1181-ND	42.12	41.95	39.93	88865155
	Dual Din Rail Timer, Delay On, 24 ~ 240V	646-1182-ND	46.80	46.62	44.37	88865215
	Dual Din Rail Timer, Delay Off, 24 ~ 240V	646-1183-ND	66.60	66.34	63.14	88865265
	Dual Din Rail Timer, Multifunction	646-1184-ND	66.60	66.34	63.14	88865305
	Dual Din Rail Timer, Multifunction	646-1185-ND	55.80	55.58	52.90	88865103

Fig. 1

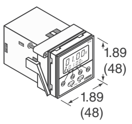

Fig. 2

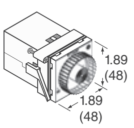

Fig. 3

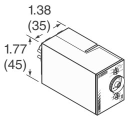

CURTIS

Hour Meters, Counters and Battery Meters

Hour Meters and Counters

Curtis Modules are ideally suited for OEM's panel makers and contract manufacturers to measure equipment usage for preventive maintenance, scheduling, warranty validation and renting/leasing. No moving parts or motor driven digits to wear out. Non-volatile memory can be powered down and not lose hours counted. Counting starts with enable connection and counts display when power is applied to the meter. External reset is standard. The counters can be used in vending machines, medical equipment, fuel pumps, office equipment, flow instruments, consumer products and many other applications.

Features: • Attractive and easy to read 6-digit Liquid Crystal Displays with 5mm digit height • Compact size ideal for electronic subassemblies • Wide voltage range • AC/DC operation on most products • Input Frequency of 500Hz on DC counters; 1Hz on AC/DC counters • Exceptional reliability due to non-volatile (EEPROM) memory which can retain data for 25+ years • Resettable option

700 and 701 Series: • 6-digit Hour Meter module with 5mm (.197") high digits, non-backlit. Operating Type: • 2 wire units start timing when supply power is applied • 3 wire units start timing when 3rd lead (enable lead) has power applied

Specifications: • Resolution: 99,999.9 hours • Accuracy: ±0.1% hours • Mechanical Shock: SAE J1378, 55g • Operating Temperature: -40°C ~ 85°C

703 Series: 6-digit Pulse Counter module with 5mm (.197") high digits, non-backlit. **Specifications:** • Resolution: 999,999 Counts • Accuracy: ±1 count • Mechanical Shock: SAE J1378, 55g • Operating Temperature: -40°C ~ 85°C

Battery Meters

906 Series: Model 906 is an inexpensive, one piece, easy to install battery fuel gauge. It is completely solid state and provides a reliable, accurate and easy to read display of battery state-of-charge. This battery fuel gauge is ideal for golf cars, commercial cleaning equipment, mobility aids, electric bicycles, electric marine motors, medical devices and similar equipment.

Features: • 10-bar LED displays the state-of-charge successively, bar by bar, from full to empty • At 70% depth of discharge, a flashing LED signals an "energy reserve" alert • At 80%, alternately flashing LEDs provides an "empty" status warning

Specifications: • Operating Temperature: -40°C ~ 85°C

Dimensions in Inches (mm)

Fig. 1 – 2" Round

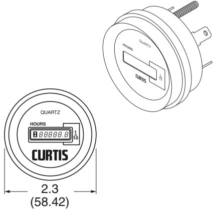

Fig. 2 – Mini with MNT Ears

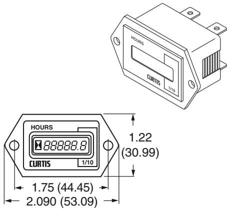

Fig. 3 – Mini without MNT Ears

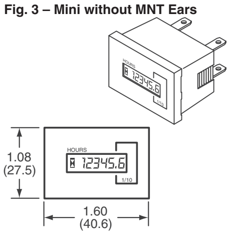

Fig. 4 – Standard Size

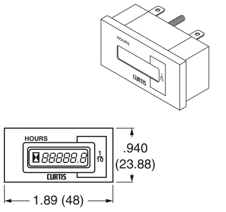

Fig. 5 – Standard size with connector

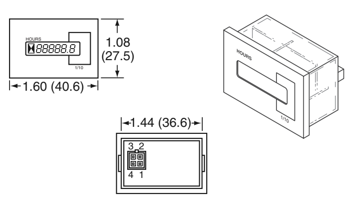

Fig.	Operating Mode	Operating Type	Operating Voltage DC	AC	Reset	Digi-Key Part No.	Price Each 1	10	50	Curtis Part No.
					Hour Meters and Counters					
1	Hour Meter	3 Wire	12 ~ 48	20 ~ 60	Elect	267-1001-ND◆	27.00	24.30	20.25	701QR00101248D2060A
	Hour Meter	3 Wire	48 ~ 150	100 ~ 230	Elect	267-1002-ND	30.20	27.18	22.65	701QR001048150D100230A
2	Hour Meter	3 Wire	12 ~ 48	20 ~ 60	Elect	267-1003-ND◆	20.10	18.09	15.07	701FR00101248D2060A
	Hour Meter	3 Wire	48 ~ 150	100 ~ 230	Elect	267-1004-ND◆	20.10	18.09	15.07	701FR001048150D100230A
3	Hour Meter	3 Wire	12 ~ 48	20 ~ 60	Elect	267-1057-ND◆	20.10	18.09	15.07	701ZR001N1248D2060AB
	Hour Meter	3 Wire	48 ~ 150	100 ~ 230	Elect	267-1046-ND	20.10	18.09	15.07	701ZR001N48150D10023
4	Hour Meter	2 Wire	12 ~ 48	20 ~ 60	Elect	267-1039-ND	25.20	22.68	18.90	700DR00101248D2060A
	Hour Meter	2 Wire	48 ~ 150	100 ~ 230	Elect	267-1042-ND	25.20	22.68	18.90	700DR001048150D100230A
	Hour Meter	3 Wire	12 ~ 48	20 ~ 60	Elect	267-1005-ND	25.20	22.68	18.90	701DR00101248D2060A
	Hour Meter	3 Wire	48 ~ 150	10 ~ 230	Elect	267-1006-ND◆	25.20	22.68	18.90	701DR001048150D100230A
	Counter	3 Wire	48 ~ 150	100 ~ 230	Elect	267-1008-ND◆	28.00	25.20	21.00	703DR001048150D100230A
5	Hour Meter	3 Wire	48 ~ 150	100 ~ 230	Non	267-1026-ND†	16.70	15.03	12.52	700LN001N48150D100230A
	Hour Meter	3 Wire	12 ~ 48	—	Non	267-1027-ND†◆	16.70	15.03	12.52	701LN001N1248D
	Hour Meter	3 Wire	12 ~ 48	20 ~ 60	Non	267-1028-ND†	16.70	15.03	12.52	700LN001N1248D2060A
6	Hour Meter	3 Wire	48 ~ 150	100 ~ 230	Elect	267-1048-ND	51.00	45.90	38.24	701SR601048150D100230A
7	Hour Meter	3 Wire	5 ~ 12	—	Elect	267-1009-ND◆	18.00	16.20	13.50	701PR-102
	Hour Meter	3 Wire	12 ~ 48	—	Elect	267-1010-ND◆	19.50	17.55	14.62	701PR-112
	Counter	3 Wire	5 ~ 12	—	Elect	267-1011-ND	19.50	17.55	14.62	703PR-102
	Counter	3 Wire	12 ~ 48	—	Elect	267-1012-ND◆	19.50	17.55	14.62	703PR-112
					Battery Fuel Gauge — RoHS Compliant					
8	Battery Discharge Meter, 36VDC for Golf Car Batteries (1.97V Full/ 1.75V Empty)					267-1049-ND	46.00	41.40	34.49	906D36HGA
	Battery Discharge Meter, 36VDC for Golf Car Batteries (1.97V Full/ 1.75V Empty)					267-1054-ND	46.00	41.40	34.49	906T36HGAAO
	Battery Discharge Meter, 24VDC for OEM Applications (2.04V Full/ 1.73V Empty)					267-1050-ND	46.00	41.40	34.49	906T24BNMAO
	Battery Discharge Meter, 24VDC for OEM Applications (2.04V Full/ 1.73V Empty)					267-1051-ND	46.00	41.40	34.49	906T24BNMAN
	Battery Discharge Meter, 36VDC for OEM Applications (2.04V Full/ 1.73V Empty)					267-1052-ND	46.00	41.40	34.49	906T36BNMAN
	Battery Discharge Meter, 36VDC for OEM Applications (2.04V Full/ 1.73V Empty)					267-1053-ND	46.00	41.40	34.49	906T36BNMAO
	Battery Discharge Meter, 48VDC for Industrial Applications (2.04V Full/ 1.73V Empty)					267-1055-ND	46.00	41.40	34.49	906T48BNMAO
	Battery Discharge Meter, 12VDC for Industrial Applications (2.04V Full/ 1.73V Empty)					267-1056-ND	46.00	41.40	34.49	906T12BNMAO

◆ *RoHS Compliant* † **Order Mating Connector separately.** Housing WM1784-ND Contacts: 20AWG - 24AWG (WM1837-ND), 26AWG - 30AWG (WM1838-ND)

Fig. 6 – 1/16 Din Size

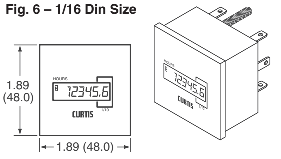

Fig. 7 – PCB MNT

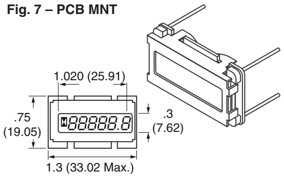

Fig. 8 – Model 906

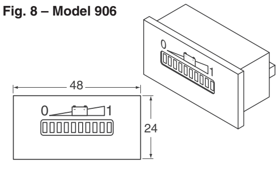

MARTEL ELECTRONICS

QM Series 2-Wire Panel Meters

RoHS COMPLIANT

The QM Single Mounting Hole Series are Nema 4 rated meters for simple commercial and industrial applications. To install, the user needs only to drill a single 7/32" (5.5mm) hole in the panel. A rubber seal is included, providing splashproof protection for the unit when fitted to the meter during installation. Includes: meter, mounting nut, washer and panel seal. All meters have reverse polarity protection.

QM Voltmeter: 2-wire voltmeter powered from the voltage that it is measuring. The module indicates "LO" at voltages below 4V and "HI" at above 25V (40V for QM100V-40). **Specifications:** • Measured Input Voltage: 4 ~ 25VDC (QM100V), 4 ~ 40VDC (QM100V-40) • Supply Voltage: 3 ~ 50VDC • Sample Rate: 3 samples/second • Operating Range: 0°C ~ 50°C

QM Thermometer: A dual inside (sensor included) and outside (sensor required) digital thermometer that can display temperatures in either Fahrenheit or Celsius. **Specifications:** • Internal Sensor: 14°F ~ 122°F (-10°C ~ 50°C) • External Sensor: -4°F ~ 428°F (-20°C ~ 220°C) • Operating Range: -10°C ~ 50°C • Supply Voltage: 4 ~ 28VDC

QM Hourmeter: Automatically blanks the leading zeros for easy reading and display of hours and 1/10 hours. An output is provided that pulses high after every hour. Features trip and total time range. Specifications: • Resolution Range: 9,999.9 hour or 99,999 hour • Supply Voltage: 5 ~ 27VDC • Operating Range: 0°C ~ 50°C

QM130M Digitalized Analog Gauge: An LCD analog gauge that looks similar to an analog voltmeter. A moving needle illustrates a quick confirmation of meter levels and changing colors allow quick visuals of meter status. This meter can be scaled for reading voltages or currents. **Specifications:** • Supply Voltage: 5 ~ 12VDC • Resolution: 125mVDC • Full Scale Reading: 1VDC

QM140V Scalable Meter: A universal 0 ~ 200mV input meter that with scaling resistors is able to measure 200mV/µA, 2V/mV and 20V/mA ranges. Trim pot calibration included on rear of meter. **Specifications:** • Supply Voltage: 7.5V ~ 15VDC • Sample Rate: 3 samples/second • Operating Range: 0°C ~ 50°C

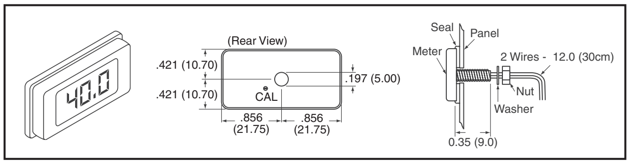

Description	Digi-Key Part No.	Price Each	Martel Part No.
Voltmeter 4 ~ 25VDC, 100mV resolution	227-1042-ND	44.16	QM100V
Voltmeter 4 ~ 40VDC, 200mV resolution	227-1054-ND	44.16	QM100V-40
Thermometer, Inside/Outside -10°C ~ 50°C	227-1043-ND	44.16	QM110T
Hourmeter; 9,999.9 hrs trip/totalized time	227-1044-ND	44.16	QM120C
LCD Analog Gauge, moving LCD needle	227-1045-ND	34.84	QM130M
Universal Scalable Meter, Volt/Current	227-1046-ND	53.00	QM140V

V Series Very Low Cost Voltmeter

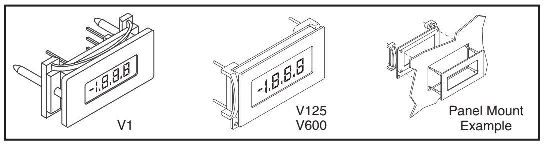

RoHS COMPLIANT

The V Series is a range of low cost LCD, 3 1/2 digit panel instruments. The meters have a ±200mVDC full scale reading with a typical accuracy of 0.25%. These meters use a 9VDC and are designed for high volume OEM applications where lowest possible cost is a major concern. They feature an exceptionally large display in a miniature package and includes auto-zero and user-selectable decimal points. All module's are supplied with a black panel mounting bezel kit.

Description	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
Mini LCD Voltmeter, .25" digit height, 200mV Input, Includes Bezel	227-1059-ND	20.94	19.90	18.85	V1
Standard LCD Voltmeter, .50" digit height, 200mV Input, Includes Bezel	227-1060-ND	22.60	21.47	20.34	V125
Large LCD Voltmeter, .60" digit height, 200mV Input, Includes Bezel	227-1061-ND	24.26	23.05	21.84	V600

35/65 Series Digital Panel Meters

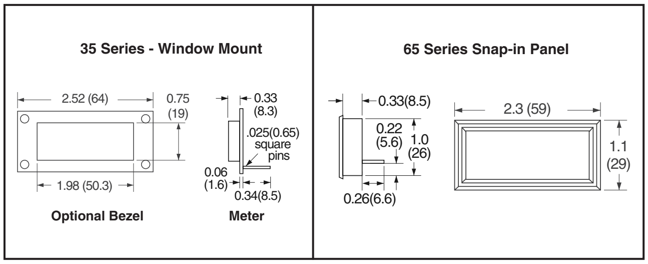

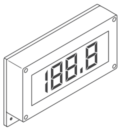

This low cost range of meters is the solution for a wide range of OEMs and Panel Builders. The DPM35 is available with either red or green LEDs and has an optional mounting bezel (BEZ35). The DPM65 has a reflective LCD display and comes with a snap-in bezel. **Inputs:** • Ranges: ±200.0mV, ±2.000V, ±20.00V • Single-ended; (INLO internally referenced to supply GND) **Power Supply:** • Voltage: 5VDC (±5%) **Mounting:** • 35 Series: Window mount or bezel mount with optional bezel • 65 Series: Snap-in bezel mount • Connection: 10 pins, 0.025" (.635mm) square on 0.1" (2.54mm) centers

Description	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
DPM Red LED, 200mV, 35 Series	227-1034-ND◆	49.60	47.12	44.64	DPM35R
DPM Green LED, 200mV, 35 Series	227-1035-ND◆	49.60	47.12	44.64	DPM35G
DPM Reflective LCD, Differential, 65 Series	227-1036-ND◆	49.60	47.12	44.64	DPM65
DPM Reflective LCD, Single-rail, 65 Series	227-1037-ND◆	49.60	47.12	44.64	DPM65S
Optional Snap-in Bezel for DPM35 Series	227-1038-ND	4.04	3.84	3.64	BEZ35

◆ ***RoHS Compliant***

700 Series Industrial Voltmeter

The 700 Series Voltmeters are low cost LCD displays for panel instruments and portable equipment. Use the Dual Display meter to display "matched readings" (voltage and current or temperature and humidity) with separate selectable annunciators and calibration adjustments. Use the DPM742 (screw terminal connections) and 750 (with annunciators and low battery indicator) meters for portable equipment or industrial applications. LED backlight standard on 742 and 750. Use optional IP67 silver metallic bezel for watertight, industrial applications. All meters include a standard black bezel kit.

Description	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
IP67 Industrial Bezel Kit, for use with DPM742-BL and DPM750S-BL	227-1058-ND	25.00	23.75	22.50	BEZ700-IP
Dual Display Voltage-Amperage meter, 0-200mV Input	227-1057-ND◆	129.70	123.22	116.73	DPM702S
Large LCD (.50") 4-20mA Loop Meter, screw terminal connections	227-1056-ND	133.46	126.79	120.12	DPM742-BL
Large LCD (.50") Voltmeter, 20-0mV Input, with Annunciators/Low Battery	227-1055-ND	77.04	73.19	69.34	DPM750S-BL

◆ ***RoHS Compliant***

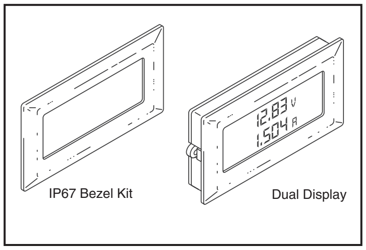

SP Series 3.5 Digital Voltmeter

The 12-pin dual-in-line connection version is compatible with competing meters. This lower cost version is more suited to new designs. Includes full-scale reading ±200mVDC with a typical accuracy of 0.1% (±1 count). The module is 1.38" (35.05mm) width x 0.88" (22.35mm) height. Low cost means it will suit high and low volume applications. IP65 splash proof construction.

Description	Digi-Key Part No.	Price Each	Martel Part No.
Large Bright Red LED Voltmeter, 200mV Input	227-1052-ND	59.16	SP300

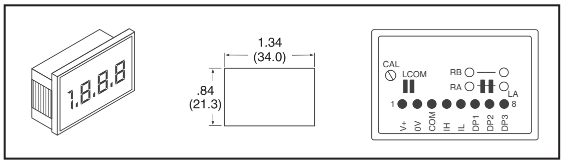

Series 10 Universal Volt/Ammeter

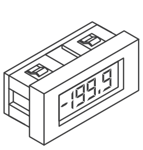

The DPM1, 2 and 3AS-BL features 200mVDC measurement with auto-zero and auto-polarity. Decimal points are user selectable. The DPM1, 2 and 3AS-BL feature a negative rail generator which enables the meter to measure a signal referenced to its own power supply GND. LED backlighting ensures excellent readability under low light conditions. The design of the housing allows the module to be easily snapped into a panel. The low cost module will suit high and low volume applications.

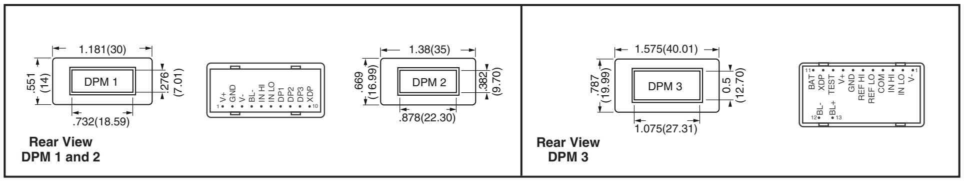

Description	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
Mini 5.5mm LCD Universal Meter with Backlight	227-1047-ND◆	60.84	57.80	54.76	DPM1AS-BL
Mini 8.2mm LCD Universal Meter with Backlight	227-1048-ND	65.84	62.55	59.26	DPM2AS-BL
Mini 11mm LCD Universal Meter with Backlight	227-1049-ND◆	69.16	65.71	62.25	DPM3AS-BL

◆ ***RoHS Compliant***

MARTEL ELECTRONICS Digital Panel Meters

Fig. 1

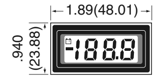

Panel Cutout: .87" x 1.77"
22.10mm x 44.96mm

DPM125 LCD Legacy Series

The DPM125 features auto-zero, auto-polarity, 200mV fsr, 12.5mm digit height, low battery indication and selectable decimal points. The meter will plug directly into a 12-pin SIL socket or can be panel mounted using snap-in bezel provided.

Fig. 2

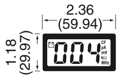

Panel Cutout: 1.06" x 2.24"
26.92mm x 56.90mm

DPM500 LCD Legacy Series

The DPM500 features auto-zero, auto-polarity, 200mV~2V~20V fsr, 12.5mm digit height, low battery indication, selectable decimal points and 10 user-selected annunciators. The meter will plug into a 40-pin DIL socket or can be panel mounted using snap-in bezel provided.

Fig. 3

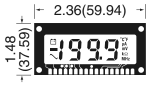

Panel Cutout: 1.26" x 2.44"
32.00mm x 61.98mm
External Bezel

DPM600 LCD Legacy Series

The DPM600 features auto-zero, auto-polarity, 200mV~2V~20V fsr, 12.5mm digit height, adjustable low battery indication, selectable decimal points and 12 user-selected annunciators. The meter has 36 pins for PCB mounting or can be panel mounted with optional bezel (p/n MB10).

Fig. 4

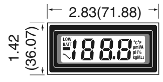

Panel Cutout: 1.3" x 2.68"
33.02mm x 68.07mm

DPM2000 LCD Legacy Series

The DPM2000 features auto-zero, auto-polarity, 200mV~2V~20V fsr, 15mm digit height, adjustable low battery indication, selectable decimal points and 12 user-selected annunciators. The meter will plug into a 40-pin DIL socket or can be panel mounted using snap-in bezel provided.

Fig. 5

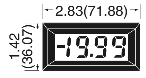

Panel Cutout: 1.3" x 2.68"
33.02mm x 68.07mm

DPM40 LED Series

The DPM40 features auto-zero, auto-polarity, 200mV~2V~20V fsr, 11mm LED digit height and selectable decimal points. The meter is supplied with a bezel and filter to give a high contrast display.

Fig.	Supply	Input	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
1	7.5 ~ 15	200mV	227-1007-ND◆	68.94	65.50	62.05	DPM125
	7.5 ~ 15	200mV	227-1008-ND	82.24	78.13	74.02	DPM125L
2	7.5 ~ 15	20V	227-1011-ND	94.16	89.46	84.75	DPM500-20
	3.6 ~ 6.5	2V	227-1016-ND◆	94.16	89.46	84.75	DPM500S-2
	3.6 ~ 6.5	20V	227-1017-ND◆	97.66	92.78	87.90	DPM500S-20
3	5 ~ 15	20V	227-1023-ND	82.06	77.96	73.86	DPM600-20
4	5 ~ 15	200mV	227-1027-ND◆	79.96	75.97	71.97	DPM2000
	5 ~ 15	2V	227-1028-ND◆	79.96	75.97	71.97	DPM2000-2
	5 ~ 15	20V	227-1029-ND◆	79.96	75.97	71.97	DPM2000-20
5	5	200mV	227-1030-ND	97.66	92.78	87.90	DPM40

◆ ***RoHS Compliant***

CRAMER COMPANY Hour Meters

Precision Timers and Motion Devices

RoHS COMPLIANT

The Cramer line of ETIs (Elapsed Time Indicators) are used to record the amount of "on-time" operation for industrial and commercial grade equipment. Resettable and Non-resettable versions are available either in round or square bezel, displayed in tenths of an hour.

Applications: • Indicating, monitoring and recording a process where the time used is required • Recording "on-time" usage of machinery for billing purposes • Preventative maintenance for machinery or equipment

Features: • Large, easy-to-read numbers • Rugged design • Continuous duty • Tamper proof • Permanently lubricated • Square or round bezel

Specifications: • Power Consumption: 2.7 watts • Working Voltage: 110VAC/115VAC • Electrical Connections: 6" leads, 22 gauge wire • Operating Temperature: -20°C ~ 55°C • Mounting: Front panel • Agency Approval: UL, CSA

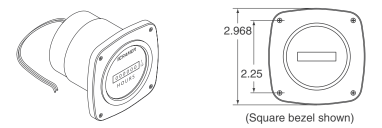

(Square bezel shown)

Description	Digi-Key Part No.	Price Each 1	10	50	Cramer Part No.
Round Bezel, 0 ~ 99.9K hours, 115VAC, Non-resettable	CRA214-ND	35.93	31.40	28.37	10071
Round Bezel, 0 ~ 9.9K hours, 115VAC, Resettable	CRA216-ND	75.37	65.86	59.51	10075
Square Bezel, 0 ~ 99.9K hours, 110VAC, Non-resettable	CRA215-ND	35.93	31.40	28.37	10186
Square Bezel, 0 ~ 9.9K hours, 115VAC, Resettable	CRA217-ND	75.37	65.86	59.51	10083

Honeywell Sensing and Control HOBBS Hour Meters

RoHS COMPLIANT

The 98000 Series LCD Hour Meters: Provides a large easy-to-read display in a conventional size package. Specifications: • Operating Temperature: -40°C ~ 85°C • Operating Voltage: 9 ~ 64VDC • 6 digit display • Digit Height: 6mm

The 20000 Series Deluxe Hour Meters: Totally sealed and benefits from an uncommon design which integrates the motor and frame into one substructure. Specifications: • Operating Temperature: -54°C ~ 68°C • Number Size: 3mm • UL Listed • CSA Certified

The 82000 Series Diochron Hour Meters: Meter must be moisture resistant when submerged in water at 150°F for 3 minutes. Specifications: • Operating Voltage: 10 ~ 80VDC

Fig.	No. of Terminals	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	50	100	Honeywell Part No.
98000 Series — LCD Hour Meters								
1	2	2.1 (52.12)	1.18 (30.07)	700-1003-ND ***NEW!***	29.75	21.57	20.83	098203 99
				700-1004-ND ***NEW!***	28.70	20.81	20.09	098204 99
2	2	1.60 (40.6)	1.08 (27.4)	480-2069-ND	32.03	23.41	23.00	098311 57
	3			480-2070-ND	48.53	37.82	33.26	098321 94
	4			480-2068-ND	46.31	35.28	33.60	098301 94
3	2	1.25 (31.8)	2.13 (54.1)	480-2066-ND	34.73	25.18	24.32	098313 12
	3			480-2067-ND	34.62	25.10	24.24	098323 81
	4			480-2065-ND	36.68	26.81	26.34	098303 92
4	2	2.27 (57.7)	2.00 (50.8)	480-2072-ND	37.91	27.71	27.22	098312 03
	3			480-2073-ND	41.01	29.74	28.71	098322 93
	4			480-2071-ND	42.07	31.01	30.45	098302 93
5	4	1.26 (32.0)	.712 (18.08)	480-2064-ND	13.61	9.22	8.83	098750 100
				700-1000-ND	14.60	9.96	9.63	098755 100
20000 Series — Deluxe Hour Meters								
6	2	1.60 (40.6)	1.08 (27.4)	480-2080-ND	32.67	23.88	23.46	020116 23
7	2	1.398 (35.5)	1.02 (25.9)	480-2078-ND	31.47	23.00	22.60	020001 17
8	2	2.19 (55.6)	2.70 (68.6)	480-2079-ND	32.90	24.05	23.63	020017 14
82000 Series — Diochron Hour Meters								
6	2	1.55 (39.4)	1.03 (26.2)	480-2076-ND	18.85	13.47	12.80	082452 82
7	2	1.41 (35.8)	1.25 (31.8)	480-2074-ND	18.85	13.47	12.80	082450 83
8	2	1.98 (50.3)	2.24 (56.9)	480-2075-ND	19.23	13.74	13.05	082451 84
	2	1.98 (50.3)	2.80 (71.1)	480-2077-ND	18.85	13.47	12.80	082453 85

Dimensions in Inches (mm)

Fig. 1 *NEW!*

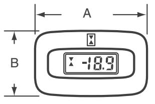

Snap-in Mount:
Panel Cut-out: 1.43 x 0.91
Rectangular Opening

Fig. 2

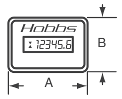

Retainer Mount:
Panel Cut-out: 1.45 x 0.95
Rectangular Opening

Fig. 3

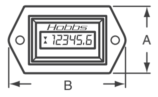

Panel Cut-out: 1.45 x 0.95
Rectangular Opening
(2) 0.15 holes spaced 1.750

Fig. 4

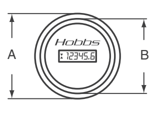

Retainer Mount 2.27
Panel Cut-out: 2.00
Diameter Opening

Fig. 5

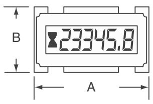

Four-Pin Mount:
Panel Cut-out: .300 x .583
Rectangular Opening

Fig. 6

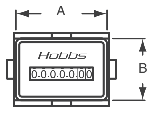

Retainer Mount:
Panel Cut-out: 1.45 x 0.95
Rectangular Opening

Fig. 7

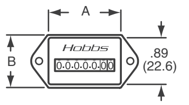

Two-Screw Mount:
Panel Cut-out: 1.45 x 0.95
Rectangular Opening
(2) 0.15 holes spaced 1.750

Fig. 8

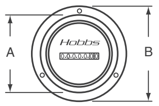

Three-Screw Mount:
Panel Cut-out: 2.00
Diameter Opening
(3) 0.125 holes equally spaced
on 2.42 bolt circle diameter

CTon Industries

Digital Panel Meters

Fig. 1 — 1/8 Din Big Digit Panel Mount

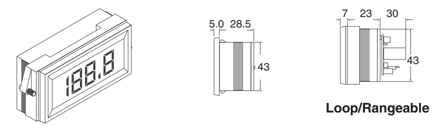

Fig. 2 — Window/Surface Mount LCD

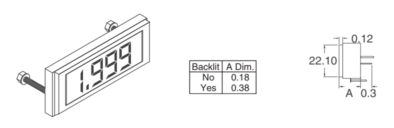

Fig. 3 — Snap-in LCD

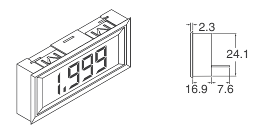

Fig. 4 — Snap-in LCD

1" (25.4mm) CUT-OUT!

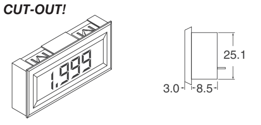

Fig. 5 — Mini LCD

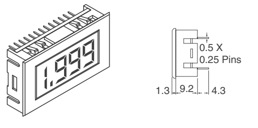

Fig. 6 — Flat Pack LCD

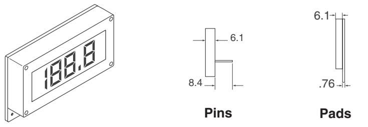

Fig. 7 — LCD Window/Surface Mount

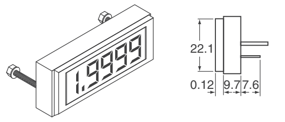

Fig. 8 — Panel Mount LED

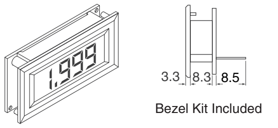

Fig. 9 — DIP Panel Meter LED

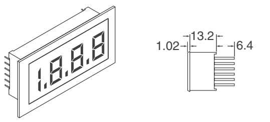

Fig. 10 — Process Meter

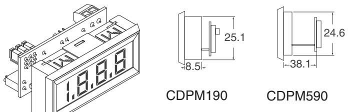

(Loop Powered - No external voltage required.)

CTON Digital Panel Meters are low cost, professional looking meters for industrial and OEM applications. Voltmeter versions feature autozero on power up and can read both positive and negative DC voltages. Selectable decimal points allow easy voltage readings. LCD versions are available in either non-backlit (std. LCD) or backlit (Red, Green or Blue) for low light viewing. CTON's 4-20mA loop type meters are intended to interface with sensor inputs that require power from the meter to operate.

Sensors such as temperature, pressure, gas, airflow vibration, etc. can be used for loop meter monitoring. Use LCD meters for low power applications and long lifetimes or use LED versions for easier viewing in varying light conditions and different angles.

3.5 Digit LCD ***Specifications:*** • **Decimal Point:** User selectable 3-position • **Full Scale Ranges:** ±200mVDC, ±2VDC, ±20VDC • **Power:** 9VDC isolated @ 180μA, 5VDC @ 3mA • **Conversion Rate:** 2.5 per second • **Storage Temperature:** -10°C ~ 50°C • **Type:** Surface Mount • **Pins:** 13 or 10 pins, .64mm square on 2.54mm centers • **Backlit Power Options:** +5 VDC, ±5%, Red 165mA typical (200mA maximum); Green 115mA typical (160mA maximum) • **Backlit Connections:** Standard 2 solder pads • **Styles:** Surface/window or snap-in bezel mount

Miniature LCD ***Specifications:*** • **Annunciators:** 11 different user selectable annunciators: BAT, °C, °F, ~, m, μ, MΩ, KΩ, V, A, HOLD • **Decimal Point:** User selectable 3-position • **Full Scale Range:** Standard ±200mVDC, ±2VDC • **Power:** 9VDC isolated (7.2-15V) at 150μA, 5VDC @ 5mA • **Conversion Rate:** 2.5 per second • **Storage Temperature:** -20°C ~ 70°C • **Type:** Snap-in Bezel Mount • **Pins:** Standard 26 pins, .46mm square, DIP style

4.5 Digit LCD ***Specifications:*** • **Annunciators:** 9VDC powered meters have "BT" when power <7.2VDC • **Decimal Point:** User selectable 4-position • **Hold:** Standard feature • **Full Scale Range:** ±200mVDC and ±2VDC • **Power:** 9VDC isolated @ 1mA, 5VDC @ 3.5mA • **Conversion Rate:** 2 per second • **Storage Temperature:** -10°C ~ 60°C • **Types:** Surface/window mount • **Pins:** 13 pins, .64mm square on 2.54mm centers

3.5 Digit LED ***Specifications:*** • **Type:** 7-segment light emitting diode (LED) • **Digits:** 0.56" (12.7mm) height • **Color:** Green or Red • **Polarity:** Displays (–) automatically • **Decimal Point:** User selectable 3-position • **Over/Under Range:** Over range displays "1" and under-range displays "-1" • **Hold:** Standard feature • **Full Scale Ranges:** ±200mVDC, ±2VDC, ±20VDC • **Configuration:** Bipolar, fully differential • **Power:** +5VDC, ±5% at 200mA • **Conversion Rate:** 3 per second • **Zeroing:** Automatic • **Operating Temperature:** 0°C ~ 50°C • **Storage Temperature:** -20°C ~ 70°C • **Relative Humidity:** 0 to 95% non-condensing • **Type:** Bezel Mount • **Pins:** Standard 10 pins, .64mm square on 2.54mm centers • **5-Year Unconditional Warranty**

Process Meter ***Specifications:*** • Meter and loop powered/controlled PCB in one unit • 3.5 or 4.5 digit • LCD and red or green LED • Fully scalable • 300Ω Impedance, nominal

Fig.	Supply	Input	Digit Color	Digi-Key Part No.	Price Each 1	10	50	C-Ton Part No.	Use Cable Assy.
				1/8 Din Big Digit 3.5 LCD					
1	+5	200mV	—	CDPM801A-ND†◆	59.74	56.76	52.28	DK801A	Incl.
	+5	2V	—	CDPM802A-ND†◆	59.74	56.76	52.28	DK802A	Incl.
	+5	20V	—	CDPM803A-ND†	59.74	56.76	52.28	DK803A	Incl.
	Loop	4-20mA	—	CDPM807A-ND†◆	69.72	66.24	61.01	DK807A	—
	Loop	4-20mA	(-)Blue	CDPM757B-ND	82.42	78.30	72.12	DK757B	—
	Loop	4-20mA	(-)Red	CDPM857B-ND◆	69.72	66.24	61.01	DK857B	—
	Loop	4-20mA	(-)Green	CDPM957B-ND	69.72	66.24	61.01	DK957B	—
				Range Selectable — RoHS Compliant					
1	12/24V	5/10V/200mV	—	CDPM809-ND†	69.72	66.24	61.01	DK809	—
	12/24V	5/10V/200mV	(-)Green	CDPM959-ND	69.72	66.24	61.01	DK959	—
				1/8 Din Big Digit 3.5 LED					
1	+5	200mV	Red	CDPM851A-ND	59.74	56.76	52.28	DK851A	Incl.
	+5	2V	Red	CDPM852A-ND◆	59.74	56.76	52.28	DK852A	Incl.
	+5	20V	Red	CDPM853A-ND	59.74	56.76	52.28	DK853A	Incl.
	+5	200mV	Green	CDPM951A-ND	59.74	56.76	52.28	DK951A	Incl.
	+5	2V	Green	CDPM952A-ND◆	59.74	56.76	52.28	DK952A	Incl.
	+5	20V	Green	CDPM953A-ND	59.74	56.76	52.28	DK953A	Incl.
				Window/Surface Mount 3.5 Digit LCD					
2	+9	200mV	—	CDPM101-ND†	39.80	37.81	34.83	DK101	J4C13
	+9	2V	—	CDPM102-ND†◆	39.80	37.81	34.83	DK102	J4C13
	+9	20V	—	CDPM103-ND†◆	39.80	37.81	34.83	DK103	J4C13
	+5	200mV	—	CDPM301-ND†◆	39.80	37.81	34.83	DK301	J1C13
	+5	2V	—	CDPM302-ND†◆	39.80	37.81	34.83	DK302	J1C13
	+5	20V	—	CDPM303-ND†◆	39.80	37.81	34.83	DK303	J1C13
	+5	200mV	Green	CDPM331-ND	49.78	47.30	43.56	DK331	J1C13
	+5	2V	Green	CDPM332-ND	49.78	47.30	43.56	DK332	J1C13
	+5	2V	(-) Green	CDPM432-ND◆	49.78	47.30	43.56	DK432	J1C13
	+5	200mV	(-) Red	CDPM531-ND	49.78	47.30	43.56	DK531	J1C13
	+5	2V	(-) Red	CDPM532-ND◆	49.78	47.30	43.56	DK532	J1C13
				Snap-in 3.5 Digit LCD					
3	+5	200mV	—	CDPM500-ND†	39.80	37.81	34.83	DK500	J1C13
	+5	2V	—	CDPM501-ND†◆	39.80	37.81	34.83	DK501	J1C13
	+5	20V	—	CDPM502-ND†	39.80	37.81	34.83	DK502	J1C13
	+9	2V	—	CDPM504-ND◆	39.80	37.81	34.83	DK504	J4C13
	+9	20V	—	CDPM505-ND◆	39.80	37.81	34.83	DK505	J4C13
				Snap-in 3.5 Digit LCD - 25.40mm Cutout — RoHS Compliant					
4	+5	200mV	—	CDPM110-ND†	39.80	37.81	34.83	DK110	J1C10
	+5	2V	—	CDPM111-ND†	39.80	37.81	34.83	DK111	J1C10
	+5	20V	—	CDPM112-ND†	39.80	37.81	34.83	DK112	J1C10
				Miniature 3.5 Digit LCD					
5	+5	200mV	—	CDPM201-ND†◆	39.80	37.81	34.83	DK201	—
	+5	2V	—	CDPM202-ND†	39.80	37.81	34.83	DK202	—
	+9	2V	—	CDPM204-ND†◆	39.80	37.81	34.83	DK204	—
	+9	200mV	—	CDPM203-ND†	39.80	37.81	34.83	DK203	—

Note: **Other ranges and colors are available on our web site.** § Pad ‡ Pin † Non-Backlit ◆ ***RoHS Compliant***

Fig.	Supply	Input	Digit Color	Digi-Key Part No.	Price Each 1	10	50	C-Ton Part No.	Use Cable Assy.
				Flat Pack 3.5 Digit LCD					
6	+9	200mV	—	CDPM171-ND§†	39.80	37.81	34.83	DK171	—
	+9	2V	—	CDPM172-ND§†	39.80	37.81	34.83	DK172	—
	+9	20V	—	CDPM173-ND§†	39.80	37.81	34.83	DK173	—
	+9	200mV	—	CDPM174-ND‡†	39.80	37.81	34.83	DK174	—
	+9	2V	—	CDPM175-ND‡†	39.80	37.81	34.83	DK175	—
	+9	20V	—	CDPM176-ND‡†	39.80	37.81	34.83	DK176	—
	+5	200mV	—	CDPM177-ND‡†	39.80	37.81	34.83	DK177	—
	+5	2V	—	CDPM178-ND‡†◆	39.80	37.81	34.83	DK178	—
	+5	20V	—	CDPM179-ND‡†	39.80	37.81	34.83	DK179	—
Bezel Kit for DK170 Series				CDPM170-ND	6.20	5.89	5.43	DK170	—
				Window/Surface Mount 4.5 Digit LCD					
7	+5	200mV	—	CDPM702-ND†	49.78	47.30	43.56	DK702	J4C13
	+5	2V	—	CDPM703-ND†◆	49.78	47.30	43.56	DK703	J4C13
	+9	200mV	—	CDPM704-ND†	49.78	47.30	43.56	DK704	J4C13
	+9	2V	—	CDPM705-ND†	49.78	47.30	43.56	DK705	J4C13
				Snap-in 4.5 Digit LCD					
3	+5	200mV	—	CDPM710-ND†◆	49.78	47.30	43.56	DK710	J4C13
	+5	2V	—	CDPM711-ND†	49.78	47.30	43.56	DK711	J4C13
	+5	20V	—	CDPM712-ND†◆	49.78	47.30	43.56	DK712	J4C13
				3.5 Digit LED — RoHS Compliant					
8	+5	200mV	Green	CDPM601-ND	39.80	37.81	34.83	DK601	J1C10
	+5	2V	Green	CDPM602-ND	39.80	37.81	34.83	DK602	J1C10
	+5	20V	Green	CDPM603-ND	39.80	37.81	34.83	DK603	J1C10
	+5	200mV	Red	CDPM604-ND	39.80	37.81	34.83	DK604	J1C10
	+5	2V	Red	CDPM605-ND	39.80	37.81	34.83	DK605	J1C10
	+5	20V	Red	CDPM606-ND	39.80	37.81	34.83	DK606	J1C10
				DIP Panel Meter 3.5 Digit LED					
9	+5	200mV	Red	CDPM630-ND	45.78	43.50	40.06	DK630	—
	+5	2V	Red	CDPM631-ND◆	45.78	43.50	40.06	DK631	—
	+5	20V	Red	CDPM632-ND	45.78	43.50	40.06	DK632	—
	+5	200mV	Green	CDPM633-ND	45.78	43.50	40.06	DK633	—
	+5	2V	Green	CDPM634-ND◆	45.78	43.50	40.06	DK634	—
	+5	20V	Green	CDPM635-ND	45.78	43.50	40.06	DK635	—
	+5	200mV	Blue	CDPM636-ND◆	55.76	52.98	48.79	DK636	—
	+5	2V	Blue	CDPM637-ND	55.76	52.98	48.79	DK637	—
	+5	20V	Blue	CDPM638-ND◆	55.76	52.98	48.79	DK638	—
				DIP Panel Meter 3.5 Digit LED with Hold Function					
9	+5	200mV	Red	CDPM640-ND	49.78	47.30	43.56	DK640	—
	+5	2V	Red	CDPM641-ND	49.78	47.30	43.56	DK641	—
	+5	20V	Red	CDPM642-ND	49.78	47.30	43.56	DK642	—
Bezel for 630/640 Series				CDPM650-ND◆	2.10	2.00	1.84	DLA-BEZ	—
				Process Meter — RoHS Compliant					
10	Loop	4-20mA	—	CDPM590-ND†	64.84	61.60	56.74	DK590	—
	Loop	4-20mA	—	CDPM190-ND†	64.84	61.60	56.74	DK190	—

Epic Series

Voltage and Process Meters

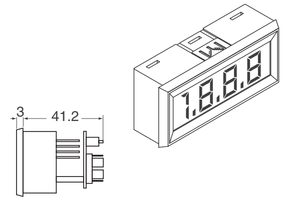

(diagram shown is Rangeable version)

C-TON's industrial digital meters intended as replacement meters for many popular panel and process meters. Wide range of input voltages, display options and user selectable annunciators make these meters universal for use as voltmeters, temperature readings, pressure readings and percentage displays.

5 year Unconditional Warranty

SPECIFICATIONS:

- **Display Type:** .45" (11.4mm) 7 segment LCD
- **Annunciators:** °F, °C, PSI, %, user selectable
- **Decimal Points:** User selectable
- **Panel Cutout:** 1" x 2.4"
- **Panel Clearance Required:** 1.25" (31.75mm)
- **Input Ranges:** ±200mVDC, ±2VDC, ±20VDC
- **Over/Under Range Indication:** 1.... / -1....
- **Configuration:** Bipolar Differential
- **Performance Conversion Rate:** 3 per second
- **Operating Temperature:** 0°C ~ 50°C
- **Power Supply:** 5VDC @ 3.5mA
- **Backlight Power:** 5VDC
- **Mounting:** Snap-in bezel
- **Connection:** 13 pins, 0.025" (.64mm) square on 0.100" (2.54mm) centers

PROCESS SPECIFICATIONS:

- Meter and loop powered PCB in one package
- **Panel Clearance Required:** 1.75" (44.45mm)
- **Input Range:** Fully scalable
- **Power Supply:** 4-20mA process loop
- **Optional Backlight Power:** 5VDC or 24VDC
- **Connection:** 2 pin screw terminals (4 pin with optional backlights)

RANGEABLE VOLTAGE SPECIFICATIONS:

- 3.5 and 4.5 digit with high-contrast LCD display
- **Input Ranges:** 0-5VDC, 0-10VDC or 0-200mvDC (selectable)
- **Power Supply:** 12VDC or 24VDC regulated (selectable)
- **Optional Backlight Power:** 24VDC @ 24mA
- **Connection:** 6 screw terminal

Power Supply	Input	Digit Color	Backlit Voltage	Digi-Key Part No.	Price Each 1	10	50	C-Ton Part No.	Use Cable Assembly
				3.5 Digit LCD					
+5	200mV	—	—	CDPM541-ND◆	39.80	37.81	34.83	DK541	J4C13
	2V	—	—	CDPM542-ND	39.80	37.81	34.83	DK542	J4C13
	20V	—	—	CDPM543-ND	39.80	37.81	34.83	DK543	J4C13
	2V	(-) Amber	5VDC	CDPM552-ND	49.78	47.30	43.56	DK552	J4C13
	20V	(-) Amber	5VDC	CDPM553-ND◆	49.78	47.30	43.56	DK553	J4C13
	2V	(-) Green	5VDC	CDPM562-ND◆	49.78	47.30	43.56	DK562	J4C13
	20V	(-) Green	5VDC	CDPM563-ND◆	49.78	47.30	43.56	DK563	J4C13
	2V	(-) Red	5VDC	CDPM572-ND	49.78	47.30	43.56	DK572	J4C13
	20V	(-) Red	5VDC	CDPM573-ND◆	49.78	47.30	43.56	DK573	J4C13
				3.5 Digit Process					
Loop	4-20mA	—	—	CDPM191-ND◆	71.82	68.23	62.85	DK191	—
		(-) Amber	24VDC	CDPM192-ND	81.80	77.71	71.58	DK192	—
		(-) Green	24VDC	CDPM193-ND◆	81.80	77.71	71.58	DK193	—
		(-) Red	24VDC	CDPM194-ND◆	81.80	77.71	71.58	DK194	—
				3.5 Rangeable					
12/24V	5/10V/200mV	(-) Amber	24VDC	CDPM196-ND	81.80	77.71	71.58	DK196	—
		(-) Green	24VDC	CDPM197-ND◆	81.80	77.71	71.58	DK197	—
		(-) Red	24VDC	CDPM198-ND◆	81.80	77.71	71.58	DK198	—
		—	—	CDPM199-ND	71.82	68.23	62.85	DK199	—
				4.5 Digit LCD					
+5	200mV	—	—	CDPM741-ND◆	49.78	47.30	43.56	DK741	J4C13
	2V	—	—	CDPM742-ND◆	49.78	47.30	43.56	DK742	J4C13
	20V	—	—	CDPM743-ND◆	49.78	47.30	43.56	DK743	J4C13
	2V	(-) Amber	5VDC	CDPM752-ND	59.74	56.76	52.28	DK752	J4C13
	20V	(-) Amber	5VDC	CDPM753-ND	59.74	56.76	52.28	DK753	J4C13
	2V	(-) Green	5VDC	CDPM762-ND	59.74	56.76	52.28	DK762	J4C13
	20V	(-) Green	5VDC	CDPM763-ND◆	59.74	56.76	52.28	DK763	J4C13
	2V	(-) Red	5VDC	CDPM772-ND◆	59.74	56.76	52.28	DK772	J4C13
	20V	(-) Red	5VDC	CDPM773-ND◆	59.74	56.76	52.28	DK773	J4C13
				4.5 Digit Process					
Loop	4-20mA	—	—	CDPM790-ND◆	89.78	85.30	78.56	DK790	—
		(-) Green	24VDC	CDPM793-ND	98.76	93.83	86.42	DK793	—
		(-) Red	24VDC	CDPM794-ND	98.76	93.83	86.42	DK794	—
				4.5 Rangeable					
12/24V	5/10V/200mV	(-) Amber	24VDC	CDPM796-ND	98.76	93.83	86.42	DK796	—
		(-) Green	24VDC	CDPM797-ND◆	98.76	93.83	86.42	DK797	—
		(-) Red	24VDC	CDPM798-ND	98.76	93.83	86.42	DK798	—
		—	—	CDPM799-ND	89.78	85.30	78.56	DK799	—

◆ ***RoHS Compliant***

Optional Accessories for all CTON Displays

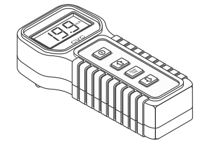

Universal Calibrator for C-Ton Displays

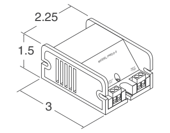

Power Supply for C-Ton Displays

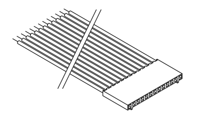

Cable Assembly for C-Ton Displays

Description	Digi-Key Part No.	Price Each 1	10	50	C-Ton Part No.
	Current and Voltage Calibrator — RoHS Compliant				
Programmable Current and Voltage Calibration Unit	CDPM1009-ND	149.00	—	—	CVC
	Power Supplies				
5VDC Out, 300mA	CDPM1000-ND◆	20.90	19.86	18.29	PW2-5
12VDC Out, 200mA	CDPM1001-ND	20.90	19.86	18.29	PW2-12
24VDC Out, 100mA	CDPM1002-ND	20.90	19.86	18.29	PW2-24
	Cable Assemblies — RoHS Compliant				
10 Pin Connector with 12" Wires, 26AWG	CDPM1003-ND	3.16	3.01	2.77	J1C10
13 Pin Connector with 12" Wires, 26AWG	CDPM1004-ND	3.16	3.01	2.77	J1C13
13 Pin Connector with 12" Wires, 26AWG	CDPM1005-ND	3.16	3.01	2.77	J4C13

◆ ***RoHS Compliant***

Large Digit Voltage Meters

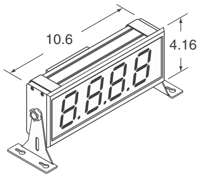

SPECIFICATIONS:

- **Display Digits:** 3.5 digits (±1999)
- **Set Voltage Ranges:** ±200mVDC, ±2VDC, ±20VDC
- **Adjustable Voltage Ranges:** 200mVDC, 5VDC, 10VDC
- **Offset Range:** -1999 ~ 1999
- **Gain Range:** 1 ~ 1000
- **4-20mA Loop Ranges:** 4 ~ 20mADC
- **Operating Temperature:** -10°C ~ 50°C
- **Power Supply:** 90 ~ 250VAC @ 12VA
- **Mounting:** 180° gimbal mounting with 30° stops, or bezel mount
- **Connection:** Screw terminals

Description	LED Color	Digi-Key Part No.	Price Each	C-Ton Part No.
2.3" Universal Current and Voltage Meter with Mounting Hardware	Red	CDPM1006-ND	349.00	BDR-999R
	Green	CDPM1007-ND	349.00	BDR-999G
	Blue	CDPM1008-ND	349.00	BDR-999B

Panasonic Counters and Timers

Panasonic Electric Works

LC4H Digital Counters

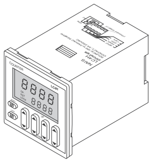

Panasonic/Aromat's LC4H Digital Counters are presettable counters that will count up or count down until your preset count is reached, then trigger the internal relay to switch in one of seven output modes.

Features such as 2 color back-lit display and waterproof front panel display allow this counter to be used in extreme environments.

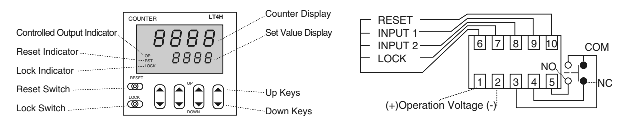

Operating Voltage	Terminal	Digi-Key Part No.	Price Each 1	25	50	Panasonic Part No.
100-240VAC	11 pin octal	255-1218-ND◆	106.00	95.40	90.10	LC4H-R4-AC240V
100-240VAC	Screw	255-1219-ND◆	110.50	99.45	93.93	LC4H-R4-AC240VS
12-24VDC	11 pin octal	255-1220-ND	101.00	90.90	85.85	LC4H-R4-DC24V
12-24VDC	Screw	255-1221-ND◆	105.50	94.95	89.68	LC4H-R4-DC24VS

◆ ***RoHS Compliant***

LT4H Digital Timers

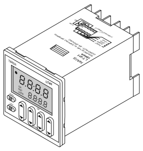

Panasonic/Aromat's LT4H Digital Timer is intended for process control for applications requiring duration time control such as delay-on/off, repeat cycle and start/stop time accumulation. The LT4H has features such as a bright 2 color back-lit display and EE-Prom memory, keeping your program settings without the need of an internal battery. The waterproof front panel keeps out dirt and water under poor operating conditions.

Timing from .001 second to 999.9 hours, with 8 modes of operation and built-in timed SPDT relay (5A 250VAC).

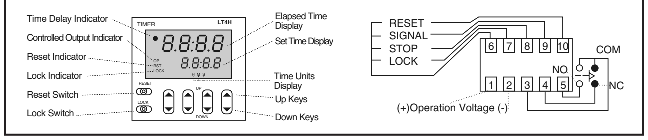

Operating Voltage	Terminal	Digi-Key Part No.	Price Each 1	25	50	Panasonic Part No.
100-240VAC	11 pin octal	255-1214-ND◆	104.00	93.60	88.40	LT4H-AC240V
100-240VAC	Screw	255-1215-ND◆	104.00	93.60	88.40	LT4H-AC240VS
12-24VDC	11 pin octal	255-1216-ND	104.00	93.60	88.40	LT4H-DC24V
12-24VDC	Screw	255-1217-ND◆	104.00	93.60	88.40	LT4H-DC24VS

◆ ***RoHS Compliant***

FAIRCHILD SEMICONDUCTOR®

Infrared Photosensors and Emitters

Fig. 1

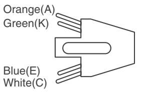

Fig. 2

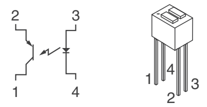

Fig. 3 – TO-46
2 Lead

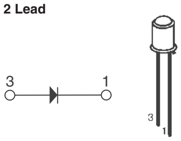

Fig. 4 – TO-46
Flat Window
2 Lead

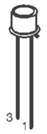

Fig. 5

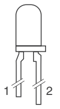

Fig. 6

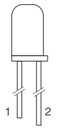

Fig. 7

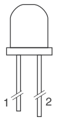

Fig. 8

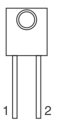

Reflective Photosensors

Fig.	Output Type	Min/Max Output Ic @ If	Optimum Sensing Distance	Termi-nation	Digi-Key Part No.	Price Each 1	10	100	500
1	Transistor	.6/3 @ 40mA	3.81mm	Leads	QRB1114-ND◆	1.05	.88	.70	.49
				Wires	QRB1134-ND◆	1.44	1.20	.96	.68
2	Transistor	1/5 @ 20mA	1.27mm	Leads	QRD1114-ND	.87	.73	.58	.41

Semiconductor Infrared Emitters (IRED LEDs)

Fig.	For-ward Volt. (V)	Max. Forward Current (mA)	Minimum Power Output	Beam Angle +/-	Peak Wave-Length (nm)	Package Type	Digi-Key Part No.	Price Each 1	10	100	500
3	1.7	100	6.0mW/sr	8	940	TO-46	1N6264-ND◆	1.65	1.32	.99	.90
4	1.7	100	6.0mW	40	940	TO-46	1N6265-ND◆	1.60	1.28	.96	.87
3	1.7	100	25.0mW/sr	10	940	TO-46	1N6266-ND◆	1.65	1.32	.99	.90
4	1.7	100	5.4mW	40	940	TO-46	CQX15-ND◆	1.60	1.28	.96	.87
3	1.7	100	12.0mW	10	880	TO-46	F5D1-ND◆	1.85	1.48	1.11	1.00
3	1.7	100	9.0mW	10	880	TO-46	F5D2-ND◆	1.85	1.48	1.11	1.00
3	1.7	100	10.5mW	10	880	TO-46	F5D3-ND◆	1.85	1.48	1.11	1.00
4	1.7	100	12.0mW	40	880	TO-46	F5E1-ND◆	1.85	1.48	1.11	1.00
4	1.7	100	10.5mW	40	880	TO-46	F5E3-ND	1.85	1.48	1.11	1.00
3	1.7	100	1.5mW/sr	10	940	TO-46	LED56-ND◆	1.65	1.32	.99	.90
4	1.7	100	3.5mW/sr	40	940	TO-46	LED55BF-ND	1.60	1.28	.96	.87
3	1.7	100	3.5mW/sr	10	940	TO-46	LED55B-ND	1.65	1.32	.99	.90
3	1.7	100	5.4mW/sr	8	940	TO-46	LED55C-ND	1.65	1.32	.99	.90
5	1.7	50	14mW/sr	8	940	T-1	QEC113-ND◆	.37	.29	.21	.12
5	1.7	50	27mW/sr	8	880	T-1	QEC122-ND◆	.43	.35	.24	.14
6	1.5	100	80mW/sr	9	880	T-1 3/4	QED123-ND◆	.42	.35	.24	.14
6	1.7	100	16mW/sr	20	880	T-1 3/4	QED222-ND◆	.42	.35	.24	.14
6	1.7	100	25mW/sr	20	880	T-1 3/4	QED223-ND◆	.42	.35	.24	.14
6	1.5	100	10mW/sr	20	940	T-1 3/4	QED233-ND◆	.38	.30	.21	.12
6	1.5	100	27mW/sr	20	940	T-1 3/4	QED234-ND◆	.38	.30	.21	.12
7	1.7	100	18mW/sr	30	880	Plastic TO-46	QED423-ND◆	.78	.65	.52	.37
7	1.7	100	20mW/sr	15	880	Plastic TO-46	QED522-ND◆	.42	.35	.24	.14
7	1.7	100	40mW/sr	15	880	Plastic TO-46	QED523-ND◆	.48	.38	.29	.16
8	1.5	50	3mW/sr	25	940	SIDELOOK	QEE113-ND◆	.46	.38	.26	.15
8	1.7	50	8mW/sr	25	880	SIDELOOK	QEE123-ND◆	.46	.37	.28	.16

◆ ***RoHS Compliant***

ROHM

Remote Control Receivers

Digi Reel® RoHS COMPLIANT

Fig. 1

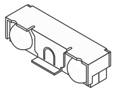

Fig. 2

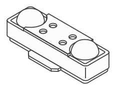

Fig. 3

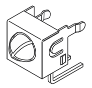

Fig. 4

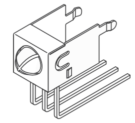

Fig. 5

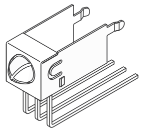

Features: These remote control receiver modules are small sized, light-weight and low consumption. These modules have been achieved by using resin mold.

Applications: All household electric appliances such as TV, DVD, air conditioner and audio equipment.

Specifications: • Output Current: 2.0mA • Storage Temperature: -30°C ~ 100°C • Operating Temperature: -10°C ~ 75°C

Fig.	Freq-uency (kHz)	Viewing Type	Operating Supply Voltage	Digi-Key Part No.	Price Each 1	25	100	T&R† Pricing 2,500	Rohm Part No.
				5300 Series					
1	36.7	Side	3.0	RPM5337-H14E2ACT-ND‡	2.10	1.60	1.26	1075.00/M	RPM5337-H14E2A
	37.9			RPM5338-H14E2ACT-ND‡	2.10	1.60	1.26	1075.00/M	RPM5338-H14E2A
2	37.9	Top	3.0	RPM5338-H12E4ACT-ND‡	2.10	1.60	1.26	1075.00/M	RPM5338-H12E4A
	40.0			RPM5340-H12E4ACT-ND‡	2.10	1.60	1.26	1075.00/M	RPM5340-H12E4A
				5500 Series					
1	36.7	Side	5.0	RPM5537-H14E2ACT-ND‡	2.10	1.60	1.26	1075.00/M	RPM5537-H14E2A
	37.9			RPM5538-H14E2ACT-ND‡	2.10	1.60	1.26	1075.00/M	RPM5538-H14E2A
2	36.7	Top	5.0	RPM5537-H12E4ACT-ND‡	2.10	1.60	1.26	1075.00/M	RPM5537-H12E4A
	37.9			RPM5538-H12E4ACT-ND‡	2.10	1.60	1.26	1075.00/M	RPM5538-H12E4A
	40.0			RPM5540-H12E4ACT-ND‡	2.10	1.60	1.26	1075.00/M	RPM5540-H12E4A
				7136 Series					
3	36.0	Top	5.0	RPM7136-H8R-ND	1.21	.69	.56	—	RPM7136-H8R
4	36.0			RPM7136-H9R-ND	1.21	.69	.56	—	RPM7136-H9R
5	36.0			RPM7136-H4R-ND	1.21	.69	.56	—	RPM7136-H4R
				7137 Series					
3	36.7	Top	5.0	RPM7137-H8R-ND	1.21	.69	.56	—	RPM7137-H8R
4	36.7			RPM7137-H9R-ND	1.21	.69	.56	—	RPM7137-H9R
5	36.7			RPM7137-H4R-ND	1.21	.69	.56	—	RPM7137-H4R
				7138 Series					
3	37.9	Top	5.0	RPM7138-H8R-ND	1.21	.69	.56	—	RPM7138-H8R
4	37.9	Top	5.0	RPM7138-H9R-ND	1.21	.69	.56	—	RPM7138-H9R
5	37.9			RPM7138-H4R-ND	1.21	.69	.56	—	RPM7138-H4R
				7140 Series					
3	40.0	Top	5.0	RPM7140-H8R-ND	1.21	.69	.56	—	RPM7140-H8R
4	40.0			RPM7140-H9R-ND	1.21	.69	.56	—	RPM7140-H9R
5	40.0			RPM7140-H4R-ND	1.21	.69	.56	—	RPM7140-H4R
				7236 Series					
3	36.0	Top	3.0	RPM7236-H8R-ND	1.21	.69	.56	—	RPM7236-H8R
4	36.0			RPM7236-H9R-ND	1.21	.69	.56	—	RPM7236-H9R
5	36.0			RPM7236-H4R-ND	1.21	.69	.56	—	RPM7236-H4R
				7237 Series					
3	36.7	Top	3.0	RPM7237-H8R-ND	1.21	.69	.56	—	RPM7237-H8R
4	36.7			RPM7237-H9R-ND	1.21	.69	.56	—	RPM7237-H9R
5	36.7			RPM7237-H4R-ND	1.21	.69	.56	—	RPM7237-H4R
				7238 Series					
3	37.9	Top	3.0	RPM7238-H8R-ND	1.21	.69	.56	—	RPM7238-H8R
4	37.9			RPM7238-H9R-ND	1.21	.69	.56	—	RPM7238-H9R
5	37.9			RPM7238-H4R-ND	1.21	.69	.56	—	RPM7238-H4R
				7240 Series					
3	40.0	Top	3.0	RPM7240-H8R-ND	1.21	.69	.56	—	RPM7240-H8R
4	40.0			RPM7240-H9R-ND	1.21	.69	.56	—	RPM7240-H9R
5	40.0			RPM7240-H4R-ND	1.21	.69	.56	—	RPM7240-H4R

† For Tape and Reel part number, change CT-ND to TR-ND. ‡ Cut Tape

Digi Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

VISHAY Semiconductor

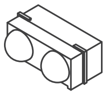

IrDA Transceivers

Size L x W x H (mm)	Operating Voltage (V)	Link Distance (m)	I/O Supply (V)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel†		Vishay Part No.
					1	10	100	Qty.	Pricing	
IrDA 1.152 Mbit/s										
6.8 x 2.8 x 1.6	2.4 ~ 3.6	0 ~ ≥0.3	≥1.5	751-1064-1-ND	3.75	3.11	2.68	1,000	1424.43	TFBS4652-TR1
				751-1065-1-ND	3.75	3.11	2.68	2,500	1370.88/M	TFBS4652-TR3
6.8 x 2.8 x 1.6	2.4 ~ 3.6	0 ~ ≥0.5	1.8	751-1069-1-ND	4.46	3.70	3.19	2,500	1632.00/M	TFBS5700-TR3
8.3 x 3.0 x 2.5	2.7 ~ 5.5	0 ~ ≥0.7	≥1.5	751-1076-1-ND	5.36	4.44	3.83	750	1577.81	TFDU5307-TR1
				751-1077-1-ND	5.36	4.44	3.83	2,500	1958.40/M	TFDU5307-TR3
				751-1078-1-ND	5.36	4.44	3.83	750	1577.81	TFDU5307-TT1
				751-1079-1-ND	5.36	4.44	3.83	2,500	1958.40/M	TFDU5307-TT3
IrDA 115.2 Kbit/s										
6.8 x 2.8 x 1.6	2.4 ~ 3.6	0 ~ ≥0.3	–	751-1062-1-ND	3.75	3.11	2.68	1,000	1424.43	TFBS4650-TR1
				751-1063-1-ND	3.75	3.11	2.68	2,500	1370.88/M	TFBS4650-TR3
6.0 x 3.1 x 1.9	2.4 ~ 5.5	0 ~ ≥0.5	–	751-1066-1-ND	4.07	3.11	2.67	1,000	1308.15	TFBS4711-TR1
				751-1067-1-ND	4.07	3.11	2.67	2,500	1259.70/M	TFBS4711-TR3
				751-1068-1-ND	4.07	3.11	2.67	1,000	1308.15	TFBS4711-TT1
8.3 x 3.0 x 2.5	2.4 ~ 5.5	0 ~ ≥0.7	≥1.5	751-1072-1-ND	4.07	3.11	2.67	750	1035.62	TFDU4300-TR1
				751-1073-1-ND	4.07	3.11	2.67	2,500	1259.70/M	TFDU4300-TR3
				751-1074-1-ND	4.07	3.11	2.67	750	1035.62	TFDU4300-TT1
				751-1075-1-ND	4.07	3.11	2.67	2,500	1259.70/M	TFDU4300-TT3
9.7 x 4.7 x 4.0	2.4 ~ 5.5	0 ~ ≥1.0	–	751-1070-1-ND	6.60	5.48	4.72	1,000	2509.71	TFDU4101-TR3
				751-1071-1-ND	6.60	5.48	4.72	1,000	2509.71	TFDU4101-TT3
SIR Encoder/Decoder				751-1200-1-ND	8.03	6.66	5.74	1,500	3052.36/M	TOIM4232-TR3
IrDA 4 Mbit/s										
8.5 x 3.1 x 2.5	2.4 ~ 3.6	0 ~ ≥0.7	–	751-1082-1-ND	5.53	4.59	3.96	2,500	2023.68/M	TFDU6300-TR3
				751-1083-1-ND	5.53	4.59	3.96	2,500	2023.68/M	TFDU6300-TT3
8.5 x 3.1 x 2.5	2.4 ~ 3.6	0 ~ ≥0.7	1.8	751-1084-1-ND	5.53	4.59	3.96	2,500	2023.68/M	TFDU6301-TR3
				751-1085-1-ND	5.53	4.59	3.96	2,500	2023.68/M	TFDU6301-TT3

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! IrDA Receiver Modules

Digi-Reel® RoHS COMPLIANT

Features: • 3V and 5V versions with frequencies from 30kHz to 56kHz • IR Receiver modules optimized for noise suppression • Wireless transceiver module is compatible with IrDA standard

Fig. 1

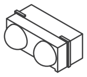

Fig. 2

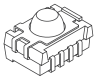

Fig. 3

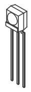

Fig. 4

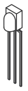

Fig.	Supply Voltage (V)	Carrier Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel†		Vishay Part No.
				1	25	100	Qty.	Pricing	
1	2.7 ~ 5.5	38	751-1392-1-ND	3.15	2.18	2.07	1,000	1031.25	TSOP85338
			751-1391-1-ND	3.36	2.32	2.20	2,500	1040.00/M	TSOP85238
			751-1445-1-ND	3.36	2.56	2.20	2,500	1040.00/M	TSOP85238TR
2	2.7 ~ 5.5	38	751-1446-1-ND	2.40	1.83	1.58	1,120	785.41/M	TSOP36238TR
3	2.5 ~ 5.5	38	751-1384-5-NDΔ	1.31	1.05	.88	—	—	TSOP32338
			751-1385-5-NDΔ	1.31	1.05	.88	—	—	TSOP34338
			751-1386-5-NDΔ	1.80	1.44	1.20	—	—	TSOP34838
4	2.5 ~ 5.5	38	751-1388-5-NDΔ	1.20	.96	.80	—	—	TSOP38338
			751-1390-5-NDΔ	1.20	.96	.80	—	—	TSOP39338
	2.7 ~ 5.5	38	751-1389-5-NDΔ	1.13	.90	.75	—	—	TSOP39238CZ1

† For Tape and Reel part number, change 1-ND to 2-ND. Δ Tube

SHARP MICROELECTRONICS

Remote Control Receivers

Supply Voltage 2.4 to 5.5V

Digi-Reel®

Fig. 1

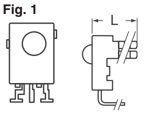

Fig. 2

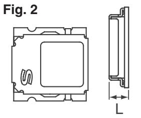

Fig. 3

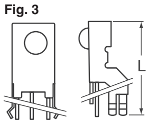

Fig. 4

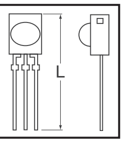

Fig.	Detecting Window	B.P.F. fo (kHz) Typ.	Current Dissipation Icc (mA) Max.	Dim. L (mm)	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
1	Top	36.0	0.4	8.6	425-2511-ND◆	1.08	.90	.72	GP1UE260RKVF
		36.0	0.4	13.8	425-2654-ND◆	1.26	.99	.72	GP1UE270RKVF
		36.7	0.6	13.8	425-2520-ND◆	1.35	1.13	.90	GP1UM272RKVF
		36.7	1.5	13.8	425-1141-ND§	1.13	.90	.75	GP1UM272RK
		36.7	1.5	13.8	425-1142-ND	1.13	.90	.75	GP1UM272XK
		36.7	0.2	14.0	425-1121-ND	1.15	.92	.76	GP1UD272XK
		36.7	1.5	17.8	425-1150-ND§	1.13	.90	.75	GP1UM282RK
		36.7	0.2	18.0	425-1126-ND	1.15	.92	.76	GP1UD282XK
		38.0	0.4	8.6	425-2512-ND◆	1.08	.90	.72	GP1UE261RKVF
		38.0	0.2	8.80	425-1931-5-ND◆Δ	1.15	.92	.76	GP1UD261XKOF
		38.0	1.5	8.80	425-2007-ND◆	1.13	.90	.75	GP1UM261XK0F
		38.0	0.4	13.8	425-2515-ND◆	1.08	.90	.72	GP1UE271RKVF
		38.0	0.6	13.8	425-2516-ND◆	1.08	.90	.72	GP1UE271XKVF
		38.0	0.6	13.8	425-2610-ND◆	1.35	1.13	.90	GP1UM271RKVF
		38.0	0.6	13.8	425-2611-ND◆	1.35	1.13	.90	GP1UM271XKVF
		38.0	1.5	13.8	425-1139-ND§	1.13	.90	.75	GP1UM271RK
		38.0	0.4	17.8	425-2517-ND◆	1.08	.90	.72	GP1UE281RKVF
		38.0	0.4	17.8	425-2518-ND◆	1.08	.90	.72	GP1UE281XKVF
		38.0	0.4	17.8	425-2522-ND◆	1.35	1.13	.90	GP1UM281XKVF
		38.0	0.6	18.0	425-1905-ND	1.08	.90	.72	GP1UE281XK
1	Top	40.0	0.4	8.6	425-2513-ND◆	1.08	.90	.72	GP1UE26RK0VF
		40.0	0.4	8.6	425-2514-ND◆	1.08	.90	.72	GP1UE26XK0VF
		40.0	0.4	15.8	425-2521-ND◆	1.35	1.13	.90	GP1UM27XK0VF
		40.0	0.4	17.8	425-2526-ND◆	1.35	1.13	.90	GP1UM28XK0VF
		40.0	1.5	13.8	425-1145-ND§	1.13	.90	.75	GP1UM27RK
		40.0	1.5	13.8	425-1146-ND	1.13	.90	.75	GP1UM27XK
		40.0	0.6	14.0	425-1904-ND	1.08	.90	.72	GP1UE27XK
		40.0	1.5	17.8	425-1158-ND§	1.13	.90	.75	GP1UM28RK
		40.0	0.2	18.0	425-1130-ND	1.15	.92	.76	GP1UD28XK
		40.0	0.6	18.0	425-1909-ND	1.08	.90	.72	GP1UE28XK
		56.8	0.6	8.80	425-1900-ND	1.08	.90	.72	GP1UE267XK
		56.8	1.5	13.8	425-1143-ND§	1.13	.90	.75	GP1UM277RK
		56.8	1.5	13.8	425-1144-ND	1.13	.90	.75	GP1UM277XK
		56.8	0.2	14.0	425-1122-ND	1.15	.92	.76	GP1UD277XK
		56.8	0.6	14.0	425-1903-ND	1.08	.90	.72	GP1UE277XK
		56.8	0.6	17.8	425-2525-ND◆	1.35	1.13	.90	GP1UM287RKVF
		56.8	1.5	17.8	425-1154-ND§	1.13	.90	.75	GP1UM287RK
		56.8	1.5	17.8	425-1155-ND	1.13	.90	.75	GP1UM287XK
		56.8	0.2	18.0	425-1128-ND	1.15	.92	.76	GP1UD287XK
		56.8	0.6	18.0	425-1907-ND	1.08	.90	.72	GP1UE287XK
2	Top	36.0	0.6	0.95	425-2656-1-ND◆†	2.35	1.85	1.21	GP1US300XP
		36.0	0.6	0.95	425-2656-2-ND◆‡	2613.00/3,000			GP1US300XP
		38.0	0.6	0.95	425-2527-1-ND◆†	1.68	1.34	1.11	GP1US301XP
		38.0	0.6	0.95	425-2527-2-ND◆‡	2562.75/3,000			GP1US301XP
		40.0	0.6	0.95	425-2703-1-ND◆† ***NEW!***	1.68	1.34	1.11	GP1US30XP
		40.0	0.6	0.95	425-2703-2-ND◆‡ ***NEW!***	2613.00/3,000			GP1US30XP
3	Side	36.7	0.2	16.6	425-1127-ND	1.15	.92	.76	GP1UD282YK
		36.7	0.6	17.8	425-2524-ND◆	1.35	1.13	.90	GP1UM282QKVF
		36.7	0.4	22.6	425-2609-ND◆	1.08	.90	.72	GP1UE292QKVF
		38.0	0.4	16.1	425-2608-ND◆	1.08	.90	.72	GP1UE281QKVF
		38.0	0.5	16.1	425-2612-ND◆	1.35	1.13	.90	GP1UM281QKVF
		38.0	1.5	16.1	425-1147-ND§	1.35	1.13	.90	GP1UM281QK
		38.0	1.5	16.1	425-1148-ND	1.13	.90	.75	GP1UM281YK
		38.0	0.4	17.8	425-2523-ND◆	1.35	1.13	.90	GP1UM281YKVF
		40.0	0.6	16.6	425-1910-ND	1.08	.90	.72	GP1UE28YK
		56.8	1.5	16.1	425-1153-ND§	1.13	.90	.75	GP1UM287QK
		56.8	1.5	16.1	425-1156-ND	1.13	.90	.75	GP1UM287YK
		56.8	0.6	16.6	425-1908-ND	1.08	.90	.72	GP1UE287YK
4	Side	38.0	0.4	28.0	425-2528-ND◆	.96	.80	.64	GP1UX311QS
		38.0	1.5	28.0	425-1911-ND◆	.96	.80	.64	GP1UX501QS
		38.0	0.6	28.0	425-2501-ND◆§	.96	.80	.64	GP1UX511QS
		40.0	1.5	16.1	425-2655-ND◆	1.58	1.24	.90	GP1UM28YK0VF

◆ ***RoHS Compliant*** † Cut Tape ‡ Tape and Reel Δ Tube § With mesh

IrDA Transceiver Module

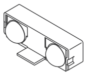

Sharp's opto-wireless transceiver module is compatible with IrDA standard.
Applications: • Cellular phones • PDA • Personal computers

Data Vcc (V)	Transfer Rate SIR (kbps)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel† Pricing 2,000	Sharp Part No.
			1	10	100		
IrDA 115 Kbit/s, 20cm							
1.7 ~ 2.5	2.4 ~ 115.2	425-1173-1-ND	2.56	2.24	1.80	1620.48/M	GP2W0112YP
2.0 ~ 3.6	2.4 ~ 115.2	425-1915-1-ND	2.00	1.75	1.40	—	GP2W0116YPS
2.4 ~ 3.6	9.6 ~ 115.2	425-2613-1-ND◆	3.06	2.04	1.43	1291.32/M	GP2W3270XP0F
		425-2614-1-ND◆	2.38	1.90	1.43	1202.70/M	GP2W3270YP0F

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND.

zilog

IrDA Transceiver Module

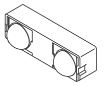

Zilog's opto-wireless transceiver module is compatible with IrDA standard.
Applications: • Portable printers • Handheld computers • Personal data assistants (PDAs)

Data Vcc (V)	Transfer Rate (kbps)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel†		Zilog Part No.
			1	25	100	Qty.	Pricing	
2.4 ~ 3.6	115.2	269-4499-1-ND◆	4.44	3.33	2.96	—	—	ZHX1203MB115TH2090TR
		269-3862-1-ND◆	4.44	3.33	2.96	2,500	2456.80/M	ZHX1223TB115THTR
		269-3821-1-ND◆	4.86	3.65	3.24	2,500	2689.20/M	ZHX1423TA115THTR
2.4 ~ 5.5	115.2	269-3246-1-ND	4.05	3.04	2.70	—	—	ZHX1810MV115THTR
		269-4500-1-ND◆	4.05	3.04	2.70	2,000	2241.00/M	ZHX1810MV115TH2090TR
		269-3126-1-ND◆	4.05	3.04	2.70	2,000	2241.00/M	ZHX1820TV115THTR
		269-3244-1-ND◆	4.20	3.15	2.80	2,000	2324.00/M	ZHX1820TV115XHTR
2.7 ~ 5.5	4,000	269-3636-1-ND	4.65	3.49	3.10	1,000	2573.00	ZHX2022MV040THTR
		269-3637-1-ND	4.65	3.49	3.10	—	—	ZHX2022TV040THTR

◆ ***RoHS Compliant*** † For Tape and Reel part number, change 1-ND to 2-ND.

LITEON

IrDA Transceiver Modules

RoHS COMPLIANT

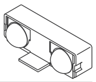

Supply Voltage	Data Rate Maximum	Digi-Key Part No.	Price Each			Tape & Reel†		Lite-On Part No.
			1	10	100	Qty.	Pricing	
2.7 ~ 5.5V	115.2 kb/s	516-1271-1-ND	2.80	2.45	2.10	—	—	HSDL-3000#007
2.7 ~ 3.6V	115.2 kb/s	516-1272-1-ND	3.40	2.98	2.55	500	1130.50	HSDL-3201#001
2.4 ~ 3.6V	115.2 kb/s	516-1273-1-ND	2.70	2.37	2.03	—	—	HSDL-3208-021
2.4 ~ 3.6V	115.2 kb/s	516-1700-1-ND	2.86	2.51	2.15	2,500	1902.00/M	HSDL-3209-021
2.7 ~ 3.6V	4.0 Mb/s	516-1701-1-ND	3.10	2.72	2.33	—	—	HSDL-3220-021
2.7 ~ 3.6V	4.0 Mb/s	516-1274-1-ND	3.50	3.07	2.63	400	931.00	HSDL-3602-007
IR 3/16 Encoder/Decoder		516-1702-1-ND	3.45	3.17	2.88	—	—	HSDL-7002

† For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

U.S. - LASERS, Inc.

Adjustable Focus Laser Diode Modules

Fig. 1 — Adjustable Focus Laser Module 28 AWG

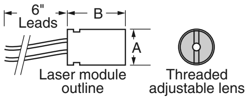

	10.4mm	6.4mm
Po:	5mW	
Class:	IIIa	
Supply Voltage, Up to 9V:	3 Continuous	
Dimension A:	10.44mm	6.4mm
Dimension B:	17.8mm	17.25mm

Fig. 2 — Adjustable Output Laser Module

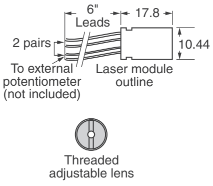

Po: 1 ~ 4.8mW
Recommended Pot = approx. 150K ~ 500K

Fig. 3 — Visible Laser Diode

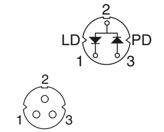

1. Laser cathode
2. Common case(laser anode)
3. PD anode (standard pinout)

Po: 5mW Class IIIa
Wide Spectrum Range,
Standard Pinout

Fig. 4 — 6.4mm Laser Diode Housing Kit

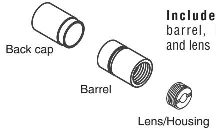

Includes: Backcap, barrel, lens housing and lens

Fig. 5 — 10.4mm Laser Diode Housing Kit

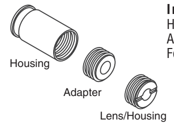

Includes: Housing/Heatsink, 5.6mm ~ 9mm Adapter, Adjustable Focus Lens

Fig. 6 — APC Laser Power Supply

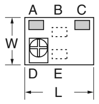

▨ ⬚ Soldering pads
A: Laser diode cathode
B: Laser/pd common (+)
C: Photodiode anode
D: Potentiometer
E: Negative lead (-)

	Dimensions W	Dimensions L
10.4mm	5.4	7.8
6.4mm	9.0	5.0

Adjustable Output Power via
On-Board Potentiometer

Fig.	Description	Wave-length (nm)	Iop (mA)	Size (mm)	Digi-Key Part No.	Price Each	U.S. Lasers Part No.
1	Visible Laser Module*	650	25 ~ 40	17.8 x 10.44	38-1003-ND	32.66	M6505I
		635	45 ~ 70	17.8 x 10.44	38-1017-ND	76.00	M6355I
1	Infrared Laser Module*	780	45 ~ 70	17.8 x 10.44	38-1018-ND	56.00	M7805I
		808	60 ~ 70	17.8 x 10.44	38-1005-ND	64.00	M8085I
		850	45 ~ 65	17.8 x 10.44	38-1019-ND	68.00	M8505I
1	Visible Laser Micro Module*	650	25 ~ 40	17.25 x 6.4	38-1021-ND	52.00	MM6505I
		640	55 ~ 70	17.25 x 6.4	38-1022-ND	92.00	MM6405I
		635	45 ~ 70	17.25 x 6.4	38-1023-ND	96.00	MM6355I
1	Infrared Laser Micro Module*	780	45 ~ 70	17.25 x 6.4	38-1024-ND	76.00	MM7805I
		808	60 ~ 70	17.25 x 6.4	38-1025-ND	80.00	MM8085I
		850	45 ~ 65	17.25 x 6.4	38-1026-ND	88.00	MM8505I
2	Adj. Output Visible Laser Module*	650	25 ~ 40	17.8 x 10.44	38-1011-ND	56.00	VOL6505I
		635	45 ~ 70	17.8 x 10.44	38-1013-ND	116.00	VOL6355I

Fig.	Description	Wave-length (nm)	Iop (mA)	Size (mm)	Digi-Key Part No.	Price Each	U.S. Lasers Part No.
2	Adj. Output Infrared Laser Module*	780	45 ~ 70	17.8 x 10.44	38-1014-ND	96.00	VOL7805I
		808	60 ~ 70	17.8 x 10.44	38-1015-ND	100.00	VOL8085I
		850	45 ~ 65	17.8 x 10.44	38-1016-ND	108.00	VOL8505I
3	Visible Laser Diode	650	25 ~ 40	5.6	38-1007-ND	9.00	D6505I
		635	45 ~ 70	5.6	38-1027-ND	30.00	D6355I
3	Infrared Laser Diode	780	45 ~ 70	5.6	38-1028-ND	24.00	D7805I
		808	60 ~ 70	5.6	38-1029-ND	28.00	D8085I
		850	45 ~ 65	5.6	38-1030-ND	32.00	D8505I
4	Housing Kit, 6.4mm			17.25 x 6.4	38-1032-ND	20.00	HK-6.4
5	Housing Kit, 10.4mm			17.8 x 10.44	38-1000-ND	18.00	HK-10.4
6	Laser Driver Circuit (APC) for 10.4mm Housing			5.4 x 7.8	38-1009-ND†	14.00	NS102-200K
	Laser Driver Circuit (APC) for 6.4mm Housing			5.0 x 9.0	38-1031-ND†	14.00	NS102A-200K
—	5.6mm ~ 9mm Adapter, Non-threaded				38-1033-ND	4.00	AD 5.6-9MM
	5.6mm ~ 9mm Adapter, Threaded				38-1001-ND	5.00	THAD 5.6-9mm

* Module denotes complete assembly † For use with 660, 650, 640 and 635nm diodes only

SHARP MICROELECTRONICS Laser Diodes

RoHS COMPLIANT

Fig. 1

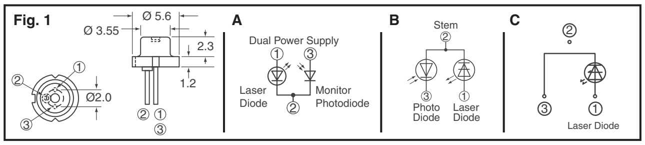

Fig.	Optical Power Output	Oper. Current (Typ.)	Oper. Volt. (Typ.)	Wave-length (Typ.)	Half Intensity Typ.† Parallel	Half Intensity Typ.† Perpendicular	Oper. Temp. °C	Digi-Key Part No.	Price Each 1	Price Each 10
1A	10mW	40mA	2.2	654nm	8.5°	29°	-10 ~ 70	425-1806-ND	14.79	12.68
1B	50mW	80mA	2.8	654nm	8.5°	21°	-5 ~ 70	425-1807-ND	74.03	63.45
1C	105mW	120mA	2.8	406nm	9.0°	19°	-10 ~ 70	425-2697-ND	1125.00/1	

† Angle at 50% peak intensity (full-width at half-maximum). Parallel to the junction plane (X-Z plane) Perpendicular to the junction plane (Y-Z plane)

LUMEX Visible and Infrared Diodes

Fig. 1

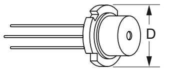

Fig. 2

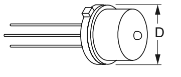

Wave-length λ Typ. (nm)	Output Power (mW) max.	Current (mA) Ith	Current (mA) Iop	Oper. Voltage (V)	Operating Temp. (°C)	Dia. D (mm)	Digi-Key Part No.	Price Each	Lumex Part No.
Fig. 1 — Visible Laser Diodes									
650	5	20	35	2.2	-10 ~ 40	5.60	67-1500-ND◆	5.37	OED-LDP65001E

Detection Range λ (nm)	Rise/Fall Time (ns)	Forward Current (mA)	Reverse Voltage (V)	Operating Temp. (°C)	Diameter D (mm)	Digi-Key Part No.	Price Each	Lumex Part No.
Fig. 2 — Pin Photo Diode								
1100/1600	0.3	2	25	-40 ~ 85	5.35	67-1505-ND	35.26	OED-PPD11075G-B

◆ ***RoHS Compliant***

Quarton Visible Laser Diode Modules

RoHS COMPLIANT

Fig. 1

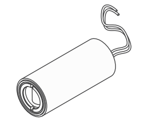

Fig. 2

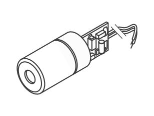

Fig. 3

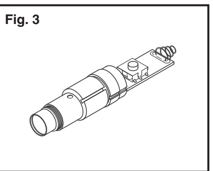

Fig. 4

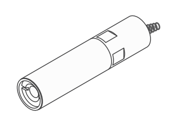

Fig. 5

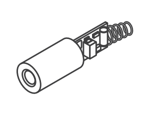

Fig. 6

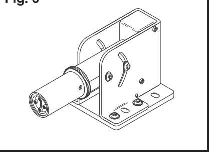

Fig.	Emission Wavelength Typ. (nm)	Cw Output Power (mW)	Operating Current (mA)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
1	650	≤3	40±15	VLM-650-01-LPA-ND	15.88	14.30	13.35
	635	≤3	40±15	VLM-635-01-LPA-ND	32.92	29.63	27.65
	650	≤2.5	40±15	VLM-650-03-LPA-ND	9.35	8.42	7.86
	650	≤3	40±15	VLM-650-27-LPA-ND	41.07	36.96	34.50
	635	≤3	40±15	VLM-635-27-LPA-ND	48.32	43.49	40.59
	650	≤2.5	40±15	VLM-650-03-LPT-ND	9.35	8.42	7.86
2	650	≤3	40±15	VLM-650-02-LPA-ND	16.43	14.79	13.81
	635	≤3	40±15	VLM-635-02-LPA-ND	42.17	37.95	35.42
	635	≤2.5	40±15	VLM-635-04-LPA-ND	22.55	20.30	18.95
	650	≤2.5	40±15	VLM-650-04-LPA-ND	9.48	8.54	7.97
3	532	≤5	270 ~ 350	VLM-532-42-SCA-ND	107.82	97.04	90.57
4	532	≤5	270 ~ 350	VLM-532-43-SCA-ND	155.73	140.16	130.82
	532	≤10	270 ~ 350	VLM-532-43-SCB-ND	227.60	204.84	191.19
5	650	≤2.5	40±15	VLM-650-04-SPA-ND	10.08	9.08	8.47
6	635	≤1	40±5	T155-27001-ND	95.83	86.25	80.50

Panasonic Aspherical Glass Lenses

RoHS COMPLIANT

Wave Length (nm)	Numerical Aperture	Focal Length (mm)	Working Distance (mm)	Lens Diameter (mm)	Mass (Weight) (mg)	Abbe Number	Cover Glass (mm)	Digi-Key Part No	Pkg.	Price Per Package	Panasonic Part No.
650	0.60	2.33	1.27	3.80	20.3	58	0.6	P13565-ND	5 pc.	132.00	EYL-GUDM128E
								P13566-ND	110 pc.	2541.00	EYL-GUDM128

Lightweight, high-performance aspherical glass lenses for various optical electronics applications.
Applications: • Pickup lens for optical drive devices • Collimator lens for laser beam printers • Coupling lens for optical communication systems • Image formation lens for sensors • Imaging device for CCD, CMOS
Features: • "One Shot" precision manufacturing process for an extremely compact, lightweight and high performance lens • High-quality processing and measurement techniques for superior performance • Short focal length for compact size • High numerical aperture achieved via aspherical design • Wide temperature and humidity range for increased reliability and stability • Various lenses and lens material available for many different applications
Specifications: • Operating Temperature Range: -30°C ~ 85°C

LED 7-Segment Displays Through-Hole

Fig. 1

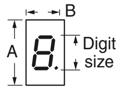

Fig. 2

Only .56” (14.20mm) and .80” (20.32mm) have active decimal points.

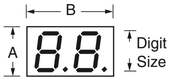

Fig. 3

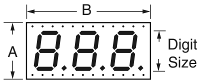

Fig. 4

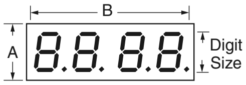

Fig. 5 — Right Angle

Multiplexed

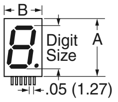

Fig. 6 — Right Angle

Multiplexed.
Only .56” (14.20mm) has decimal points.

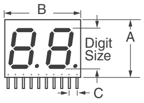

Size	No. of Pins	Dim. C In. (mm)
.56”	10	.10 (2.49)
.30”	9	.05 (1.27)

Fig.	Emitted Color	Digit Size Inch (mm)	Dimensions Inch (mm) A x B	VF (V)	If (mA)	Io (µcd)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each			Lumex Part No. Common Anode	Lumex Part No. Common Cathode
									1	10	100		
1	Red/Orange	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.0	10	2500	67-1403-ND◆	67-1406-ND◆	1.57	1.43	1.23	LDS-A304RI	LDS-C304RI
	Green	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.2	10	2500	67-1404-ND◆	67-1407-ND◆	1.57	1.43	1.23	LDS-A302RI	LDS-C302RI
	Yellow	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.1	10	2000	67-1405-ND◆	67-1408-ND◆	1.57	1.43	1.23	LDS-A303RI	LDS-C303RI
	Super-Red	.30 (7.62)	.75 x .40 (19.05 x 10.16)	1.7	10	8000	67-1413-ND◆	67-1414-ND◆	2.31	2.10	1.81	LDS-A306RI	LDS-C306RI
	Red/Orange	.36 (9.14)	.55 x .30 (13.97 x 7.49)	2.0	10	2500	67-1415-ND◆	67-1417-ND◆	1.84	1.68	1.45	LDS-A324RI	LDS-C324RI
	Green	.36 (9.14)	.55 x .30 (13.97 x 7.49)	2.2	10	2500	67-1416-ND◆	67-1418-ND◆	1.84	1.68	1.45	LDS-A322RI	LDS-C322RI
	Red/Orange	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.0	10	2500	67-1431-ND◆	67-1434-ND◆	1.57	1.43	1.23	LDS-A414RI	LDS-C414RI
	Green	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.2	10	2500	67-1432-ND◆	67-1435-ND	1.57	1.43	1.23	LDS-A412RI	LDS-C412RI
	Yellow	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.1	10	2000	67-1433-ND◆	67-1436-ND◆	1.57	1.43	1.23	LDS-A413RI	LDS-C413RI
	Super-Red	.43 (10.92)	.74 x .50 (18.90 x 12.60)	1.8	10	8000	67-1445-ND◆	67-1446-ND◆	2.31	2.10	1.81	LDS-A416RI	LDS-C416RI
	Red/Orange	.50 (12.70)	.75 x .50 (19.00 x 12.70)	2.0	10	2500	67-1451-ND◆	67-1453-ND◆	1.84	1.68	1.45	LDS-A504RI	LDS-C504RI
	Green	.50 (12.70)	.75 x .50 (19.00 x 12.70)	2.2	10	2500	67-1452-ND◆	67-1454-ND◆	1.84	1.68	1.45	LDS-A502RI	LDS-C502RI
	Red/Orange	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.0	10	2500	67-1463-ND◆	67-1466-ND◆	1.57	1.43	1.23	LDS-A514RI	LDS-C514RI
	Green	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.2	10	2500	67-1464-ND◆	67-1467-ND◆	1.57	1.43	1.23	LDS-A512RI	LDS-C512RI
	Yellow	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.1	10	2000	67-1465-ND	67-1468-ND◆	1.57	1.43	1.23	LDS-A513RI	LDS-C513RI
	Super-Red	.56 (14.22)	.75 x .48 (19.05 x 12.19)	1.7	10	8000	67-1475-ND◆	67-1476-ND◆	2.31	2.10	1.81	LDS-A516RI	LDS-C516RI
	Red/Orange	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.0	10	2500	67-1477-ND◆	67-1480-ND◆	2.28	2.08	1.79	LDS-A814RI	LDS-C814RI
	Green	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.2	10	2500	67-1478-ND◆	67-1481-ND◆	2.28	2.08	1.79	LDS-A812RI	LDS-C812RI
	Yellow	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.1	10	2000	67-1479-ND	67-1482-ND◆	2.28	2.08	1.79	LDS-A813RI	LDS-C813RI
	Super-Red	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	1.7	10	8000	67-1483-ND◆	67-1484-ND◆	3.14	2.85	2.46	LDS-A816RI	LDS-C816RI
	Red/Orange	1.0 (25.40)	1.34 x .95 (34.04 x 24.00)	4.0	10	2500	67-1485-ND◆	67-1487-ND◆	3.08	2.80	2.41	LDS-AA14RI	LDS-CA14RI
	Green	1.0 (25.40)	1.34 x .95 (34.04 x 24.00)	4.4	10	2500	67-1486-ND	67-1488-ND	3.08	2.80	2.41	LDS-AA12RI	LDS-CA12RI
	Red/Orange	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	8.0	10	2500	67-1489-ND◆	67-1491-ND	9.46	8.60	7.40	LDS-AD14RI	LDS-CD14RI
	Green	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	8.8	10	2500	67-1490-ND◆	67-1492-ND	9.46	8.60	7.40	LDS-AD12RI	LDS-CD12RI
	Super-Red	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	6.8	10	8000	67-1493-ND◆	67-1494-ND◆	10.84	9.85	8.48	LDS-AD16RI	LDS-CD16RI
2	Red/Orange	.30 (7.62)	.60 x .61 (15.24 x 15.49)	2.0	10	2500	67-1409-ND◆†	67-1411-ND◆†	2.50	2.28	1.96	LDD-E304NI	LDD-F304NI
	Green	.30 (7.62)	.60 x .61 (15.24 x 15.49)	2.2	10	2500	67-1410-ND◆†	67-1412-ND◆†	2.50	2.28	1.96	LDD-E302NI	LDD-F302NI
	Red	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.0	10	2500	67-1437-ND	67-1438-ND◆	2.39	2.18	1.88	LDD-A404NI	LDD-C404NI
	Green	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.2	10	2500	67-1419-ND◆	67-1421-ND	2.39	2.18	1.88	LDD-A402NI	LDD-C402NI
	Yellow	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.1	10	2000	67-1420-ND◆	67-1422-ND◆	2.39	2.18	1.88	LDD-A403NI	LDD-C403NI
	Super-Red	.40 (10.16)	.63 x .80 (16.00 x 20.22)	1.7	10	8000	67-1447-ND◆	67-1448-ND◆	3.69	3.35	2.89	LDD-A406NI	LDD-C406NI
	Red/Orange	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.0	10	2500	67-1455-ND◆	67-1458-ND◆	2.39	2.18	1.88	LDD-A514RI	LDD-C514RI
	Green	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.2	10	2500	67-1456-ND◆	67-1459-ND◆	2.39	2.18	1.88	LDD-A512RI	LDD-C512RI
	Yellow	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.1	10	2000	67-1457-ND◆	67-1460-ND◆	2.39	2.18	1.88	LDD-A513RI	LDD-C513RI
	Super-Red	.56 (14.22)	.75 x .98 (19.05 x 24.89)	1.7	10	8000	67-1461-ND◆	67-1462-ND◆	3.69	3.35	2.89	LDD-A516RI	LDD-C516RI
	Red/Orange	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.0	10	2500	67-1469-ND◆	67-1472-ND◆	3.99	3.63	3.12	LDD-A814RI	LDD-C814RI
	Green	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.2	10	2500	67-1470-ND◆	67-1473-ND	3.99	3.63	3.12	LDD-A812RI	LDD-C812RI
	Yellow	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.1	10	2000	67-1471-ND◆	67-1474-ND◆	3.99	3.63	3.12	LDD-A813RI	LDD-C813RI
3	Red/Orange	.56 (14.22)	.75 x 1.48 (19.05 x 37.59)	2.0	10	2500	67-1423-ND◆	67-1425-ND◆	5.09	4.63	3.98	LDT-A514RI	LDT-C514RI
	Green	.56 (14.22)	.75 x 1.48 (19.05 x 37.59)	2.2	10	2500	67-1424-ND◆	67-1426-ND◆	5.09	4.63	3.98	LDT-A512RI	LDT-C512RI
4	Red/Orange	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.0	10	2500	67-1427-ND◆†•	—	7.40	6.73	5.79	LDQ-M284RI	—
	Green	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.2	10	2500	67-1428-ND◆†•	—	7.40	6.73	5.79	LDQ-M282RI	—
	Yellow	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.1	10	2000	67-1429-ND◆†•	—	7.40	6.73	5.79	LDQ-M283RI	—
	Super-Red	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	1.7	10	8000	67-1430-ND◆†•	—	14.16	12.88	11.08	LDQ-M286RI	—
	Red/Orange	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.0	10	2500	67-1439-ND◆†	67-1442-ND◆†	7.40	6.73	5.79	LDQ-M514RI	LDQ-N514RI
	Green	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.2	10	2500	67-1440-ND◆†	67-1443-ND◆†	7.40	6.73	5.79	LDQ-M512RI	LDQ-N512RI
	Yellow	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.1	10	2000	67-1441-ND◆†	67-1444-ND◆†	7.40	6.73	5.79	LDQ-M513RI	LDQ-N513RI
	Super-Red	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	1.7	10	8000	67-1449-ND◆†	67-1450-ND◆†	7.40	6.73	5.79	LDQ-M516RI	LDQ-N516RI
5	Red	.56 (14.22)	.75 x .49 (19.05 x 12.50)	2.0	10	2500	67-1512-ND◆†	67-1513-ND†	1.98	1.80	1.55	LDS-M514RI-RA	LDS-N514RI-RA
	Green	.56 (14.22)	.75 x .49 (19.05 x 12.50)	2.2	10	2500	67-1514-ND◆†	67-1515-ND†	1.98	1.80	1.55	LDS-M512RI-RA	LDS-N512RI-RA
6	Red	.30 (7.62)	.59 x .61 (15.00 x 15.50)	2.0	10	2500	67-1516-ND◆†‡	67-1517-ND◆†‡	3.38	3.08	2.65	LDD-E304NI-RA	LDD-F304NI-RA
	Green	.30 (7.62)	.59 x .61 (15.00 x 15.50)	2.2	10	2500	67-1518-ND◆†‡	67-1519-ND†‡	3.38	3.08	2.65	LDD-E302NI-RA	LDD-F302NI-RA
	Red	.56 (14.20)	.75 x .98 (19.00 x 25.00)	2.0	10	2500	67-1520-ND◆†	67-1521-ND†	3.33	3.03	2.61	LDD-M514RI-RA	LDD-N514RI-RA
	Green	.56 (14.20)	.75 x .98 (19.00 x 25.00)	2.2	10	2500	67-1522-ND†	67-1523-ND†	3.33	3.03	2.61	LDD-M512RI-RA	LDD-N512RI-RA

◆ ***RoHS Compliant*** † Multiplexed Display • Inactive colon on display ‡ Non standard segment connections

Large Liquid Crystal 7-Segment Displays

Digit Size Inch (mm)	Dimensions - Inch (mm) A x B	Driving Method	Digi-Key Part No.	Price Each			Lumex Part No.
				1	25	100	
1.36 (34.54)	1.97 x 1.30 (50.00 x 33.00)	Static, 1/2 Bias	67-1506-ND	4.65	3.88	3.10	LCD-S101D14TR
2.21 (56.13)	3.00 x 2.20 (76.20 x 55.88)	Static	67-1507-ND	10.56	8.80	7.04	LCD-S101D22TR
2.99 (76.00)	4.03 x 3.00 (102.40 x 76.20)	Static	67-1508-ND	17.66	14.13	12.37	LCD-S101D30TR
4.00 (101.60)	4.83 x 3.20 (122.56 x 81.28)	Static, 1/2 Bias	67-1509-ND	22.86	18.29	16.01	LCD-S101D40TR

SPECIFICATIONS:

- **Fluid Type:** TN
- **Background Color:** Gray
- **Viewing Direction:** 6:00
- **Display Mode:** Reflective
- **Operating Voltage:** 3.0 ~ 5.0VAC
- **Operating Temperature:** 0°C ~ 50°C
- **Storage Temperature:** -20°C ~ 70°C
- Can be driven with the CD4543BE

Note: 4” display does not have decimal point. Pin count varies with display height.

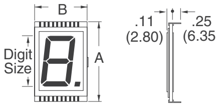

High Brightness LEDs

Fig. 1

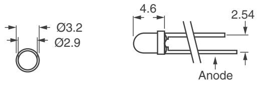

Fig. 2

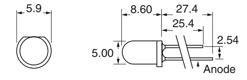

Fig. 3

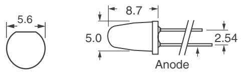

Fig. 4

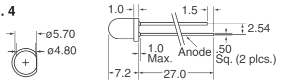

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing				Lumex Part No.
										1	10	100	500	
1	T-1 (3mm)	Sup. Orange	Water Clear	620	2.0	30	1000	30	67-1074-ND	.99	8.25	74.25	330.00	SSL-LX3044SOC
		Sup. Yellow		590	2.1	30	1000	30	67-1076-ND	.86	7.20	64.80	288.00	SSL-LX3044SYC
		Green		502	3.5	25	1100	30	67-1754-ND	2.73	22.75	204.75	910.00	SSL-LX3044UEGC
2	T-1 3/4 (5mm)	Super Red	Water Clear	660	1.7	30	2800	30	67-1612-ND	.54	4.48	40.28	179.00	SSL-LX5093SRC/E
		Super Red		660	1.7	30	1800	30	67-1611-ND	.55	4.60	41.40	184.00	SSL-LX5093SRC/DW
		Super Red		660	1.7	30	1500	30	67-1610-ND	.28	2.33	20.93	93.00	SSL-LX5093SRC/DV
		Sup. Orange		610	2.0	30	2500	30	67-1113-ND	.99	8.25	74.25	330.00	SSL-LX5093SOC
		Sup. Yellow		590	2.1	30	1000	30	67-1115-ND	.71	5.95	53.55	238.00	SSL-LX5093SYC
		Green		502	3.5	25	1500	30	67-1755-ND	2.73	22.75	204.75	910.00	SSL-LX5093UEGC
3	T-1 3/4 (5mm)	Red	Water Clear	660	1.7	30	2500	20	67-1122-ND	.57	4.78	42.98	191.00	SSL-LX5093XRC/4
		Yellow		590	2.1	30	1300	20	67-1123-ND	1.00	8.30	74.70	332.00	SSL-LX5093XYC
4	T-1 3/4 (4.7mm)	Green	Water Clear	502	3.5	25	1000	30	67-1756-ND	2.73	22.75	204.75	910.00	SSL-LX4073UEGC

DSP LEDs

Low Voltage LEDs, 1.5V

Operating Temperature:
-40°C ~ 85°C

Fig. 1

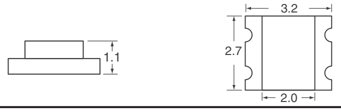

Fig. 2

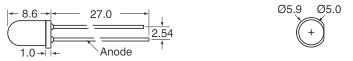

Fig.	Pkg. Type	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (min.)	LED Current (@ 1.5V)	Typ. mcd @ 2V	Viewing Angle 2x Theta	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Lumex Part No.
										1	10	100		Qty.	Pricing	
1	1210	Super Red	Water Clear	636	1.5V	10	40	140	67-1867-1-ND◆	2.14	1.83	1.53	67-1867-2-ND◆	3,000	1012.60/M	SML-DSP1210SIC-TR
		Orange	Water Clear	620	1.5V	10	40	140	67-1868-1-ND	2.17	1.86	1.55	67-1868-2-ND	3,000	1029.20/M	SML-DSP1210SOC-TR
		Yellow	Water Clear	590	1.5V	10	30	140	67-1869-1-ND	2.17	1.86	1.55	67-1869-2-ND	3,000	1029.20/M	SML-DSP1210SYC-TR
		Green	Water Clear	525	1.5V	2.5	40	140	67-1870-1-ND◆	3.26	2.79	2.33	67-1870-2-ND◆	3,000	1543.80/M	SML-DSP1210UPGC-TR
		Blue	Water Clear	470	1.5V	2.5	35	140	67-1871-1-ND◆	2.59	2.22	1.85	67-1871-2-ND◆	3,000	1228.40/M	SML-DSP1210USBC-TR
2	5mm	Red	Water Clear	636	1.5V	10	2500	30	67-1872-ND◆‡	2.04	1.70	1.53	—	—	—	SSL-DSP5093SIC
		Orange	Water Clear	610	1.5V	10	2500	30	67-1873-ND‡	2.04	1.70	1.53	—	—	—	SSL-DSP5093SOC
		Yellow	Water Clear	590	1.5V	10	2500	30	67-1874-ND‡	2.04	1.70	1.53	—	—	—	SSL-DSP5093SYC
		Green	Water Clear	525	1.5V	2.5	3500	30	67-1875-ND◆‡	3.00	2.50	2.25	—	—	—	SSL-DSP5093UPGC
		Blue	Water Clear	470	1.5V	2.5	2500	30	67-1876-ND‡	2.55	2.13	1.92	—	—	—	SSL-DSP5093USBC
		Ultra White	Water Clear	—	1.5V	2.5	3000	30	67-1877-ND◆‡	3.39	2.83	2.55	—	—	—	SSL-DSP5093UWC

◆ ***RoHS Compliant*** ‡ Bulk

White LEDs

Fig. 1

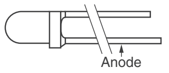

Fig. 2

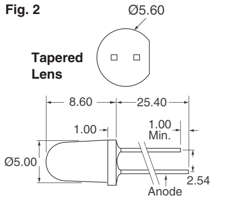

Fig. 3

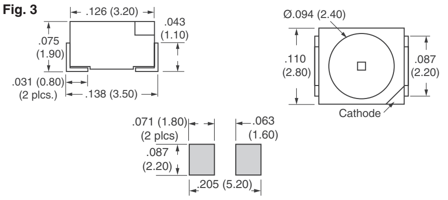

Fig. 4

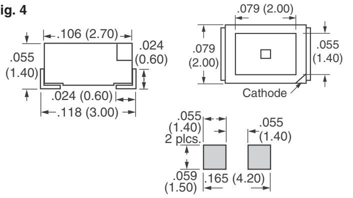

Fig.	Description (mm)	Emitted Color	Lens	Vf (V) Typ.	If (mA) Max.	Io (mcd) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing				Digi-Key Part No.	Tape and Reel		Lumex Part No.
									1	10	100	500		Qty.	Pricing	
1	T-1 (3mm)	White	Water Clear	3.6	30	750	40	67-1606-ND	3.75	33.75	270.00	1200.00	—	—	—	SSL-LX3054UWC/A
				3.5	30	3,300	30	67-1690-ND	1.11	9.99	79.92	355.20	—	—	—	SLX-LX3054UWC
				3.6	30	800	30	67-1954-ND	2.20	19.80	158.40	704.00	—	—	—	SSL-LX3044UWC
				3.6	30	900	20	67-1955-ND	2.20	19.80	158.40	704.00	—	—	—	SSL-LX3054UWC/B
1	T-1 3/4 (5mm)	White	Water Clear	3.6	30	740	45	67-1605-ND	3.75	33.75	270.00	1200.00	—	—	—	SSL-LX5093UWC/A
				3.0	25	3,500	40	67-1691-ND	.87	7.79	62.28	276.80	—	—	—	SLX-LX5093UWC/C
				3.5	25	8,000	20	67-1693-ND	1.11	9.99	79.92	355.20	—	—	—	SLX-LX5093UWC/E
				3.5	25	9,000	20	67-1694-ND	1.38	12.38	99.00	440.00	—	—	—	SLX-LX5093UWC/F
				3.5	25	11,000	20	67-2027-ND	1.60	13.30	119.70	532.00	—	—	—	SSL-LX5093UWC/G
				3.5	25	11,000	25	67-1695-ND	1.47	13.19	105.48	468.80	—	—	—	SLX-LX5093UWC/G
				3.6	30	680	34	67-1696-ND	2.22	19.98	159.84	710.40	—	—	—	SLX-LX5093UWW
2	T-1 3/4 (5mm)	White	Water Clear	3.6	30	2,300	15	67-1604-ND	3.75	33.75	270.00	1200.00	—	—	—	SSL-LX5093XUWC
3	3.2 x 2.8	White	Water Clear	3.5	30	150	120	67-1608-1-ND†	3.00	27.75	249.00	1125.00	67-1608-2-ND	1,500	2100.00/M	SML-LX2832UWC-TR
4	2.7 x 2.0	White	Water Clear	3.5	30	150	120	67-1607-1-ND†	2.86	26.46	237.38	1072.50	67-1607-2-ND	1,000	2002.00	SML-LX23UWC-TR
—	0603	White	Yellow Diffused	3.5	20	65	140	67-1959-1-ND†	1.22	10.13	81.00	374.63	67-1959-2-ND	4,000	672.30/M	SML-LX0603UWD-TR

† Cut Tape

Blue LEDs

Fig. 1

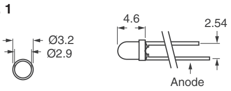

Fig. 2

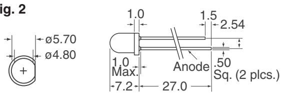

Fig. 3

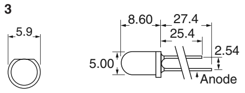

Fig. 4

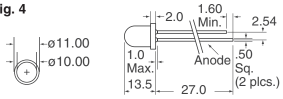

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing				Lumex Part No.
										1	10	100	500	
1	T-1 (3mm)	Blue	Water Clear	470	3.5	30	1000	30	67-1747-ND	2.23	20.03	160.20	712.00	SSL-LX3044USBC
			Blue Diff.	470	3.5	30	80	60	67-1748-ND	2.23	20.03	160.20	712.00	SSL-LX3044USBD
2	T-1 3/4 (4.7mm)	Blue	Water Clear	470	3.5	30	750	30	67-1749-ND	2.23	20.03	160.20	712.00	SSL-LX4073USBC
3	T-1 3/4 (5mm)	Blue	Water Clear	470	3.5	30	1000	30	67-1750-ND	2.23	20.03	160.20	712.00	SSL-LX5093USBC
			Blue Diff.	470	3.5	30	300	60	67-1751-ND	2.23	20.03	160.20	712.00	SSL-LX5093USBD
4	10mm	Blue	Water Clear	470	3.6	30	800	15	67-1752-ND	3.05	27.45	219.60	976.00	SSL-LX100133USBC
			Blue Diff.	470	3.6	30	300	60	67-1753-ND	3.05	27.45	219.60	976.00	SSL-LX100133USBD

Fig. 1

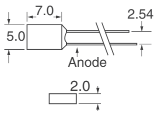

Fig. 2

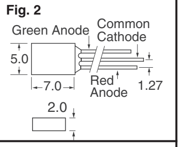

Fig. 3

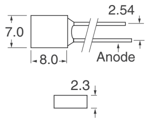

Fig. 4

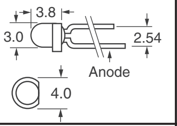

Fig. 5

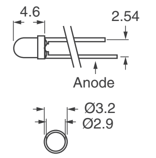

Fig. 6

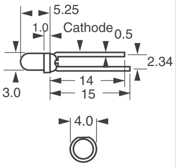

Fig. 7

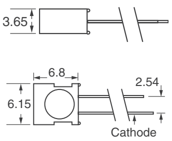

Fig. 8

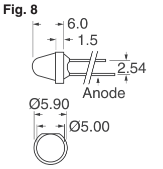

Fig. 9

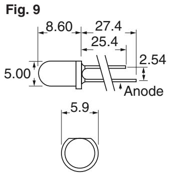

Fig. 10

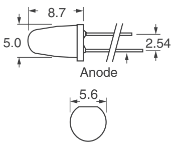

Fig. 11

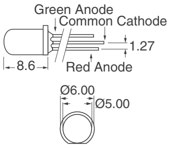

Fig. 12

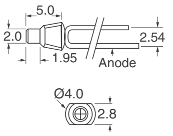

Fig. 13

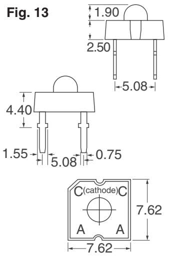

Fig. 14

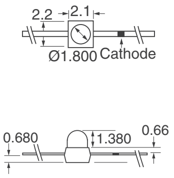

Fig. 15

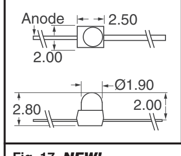

Fig. 16 (RGB)

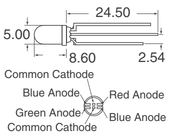

Fig. 17 ***NEW!***

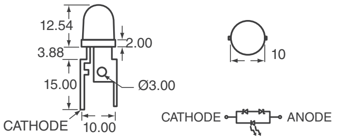

Fig.	Descrip-tion	Emitted Color	Lens	Wave length (nm)	Peak Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 1	10	100	500	Lumex Part No.
1	Rect. (2x5mm)	Sup. Red	Red Diff.	660	1.7	30	80	110	67-1049-ND◆	—	1.78	15.98	71.00	SSL-LX2573SRD
		Red	Red Diff.	635	2.0	30	10	110	67-1047-ND◆	—	1.10	9.90	44.00	SSL-LX2573ID
		Amber	Amber Diff.	605	2.0	30	5	110	67-1045-ND◆	—	1.50	13.50	60.00	SSL-LX2573AD
		Yellow	Yellow Diff.	585	2.1	30	10	110	67-1050-ND◆	—	1.18	10.58	47.00	SSL-LX2573YD
		Green	Green Diff.	565	2.2	25	10	110	67-1046-ND◆	—	1.03	9.23	41.00	SSL-LX2573GD
		Pure Green	Green Diff.	555	2.1	25	6	110	67-1048-ND◆	—	1.50	13.50	60.00	SSL-LX2573PGD
2	Rect. (2x5mm)	Red Green	White Diff.	635 565	2.0 2.2	30 25	10	90	67-1051-ND◆	—	4.05	36.45	162.00	SSL-LX2577IGW
3	Rect. (2.3x7mm)	Sup. Red	Red Diff.	660	1.8	30	50	110	67-1054-ND	—	2.20	19.80	88.00	SSL-LX25783SRD
		Red	Red Diff.	635	2.0	30	9	80	67-1053-ND◆	—	1.18	10.58	47.00	SSL-LX25783ID
		Yellow	Yellow Diff.	585	2.1	30	4	110	67-1055-ND◆	—	1.18	10.58	47.00	SSL-LX25783YD
		Green	Green Diff.	565	2.2	25	9	110	67-1052-ND◆	—	1.18	10.58	47.00	SSL-LX25783GD
4	T-1 (3mm)	Yellow	Yellow Diff.	585	2.1	30	10	60	67-1057-ND◆	—	1.63	14.63	65.00	SSL-LX3034YD
		Green	Green Diff.	565	2.2	25	10	60	67-1056-ND◆	—	1.50	13.50	60.00	SSL-LX3034GD
5	T-1 (3mm)	Red	Red Diff.	635	12.0	12	6	60	67-1067-ND◆	—	2.63	23.63	105.00	SSL-LX3044ID-12V
		Yellow	Yellow Diff.	585	12.0	12	6	60	67-1079-ND◆	—	2.63	23.63	105.00	SSL-LX3044YD-12V
		Green	Green Diff.	565	12.0	12	6	60	67-1061-ND◆	—	2.63	23.63	105.00	SSL-LX3044GD-12V
		Red	Red Diff.	635	5.0	12	6	60	67-1068-ND◆	—	3.30	29.70	132.00	SSL-LX3044ID-5V
		Yellow	Yellow Diff.	585	5.0	12	6	60	67-1080-ND◆	—	3.30	29.70	132.00	SSL-LX3044YD-5V
		Green	Green Diff.	565	5.0	12	6	60	67-1062-ND◆	—	3.30	29.70	132.00	SSL-LX3044GD-5V
		Dark Red	Red Diff.	700	2.0	25	6	60	67-1064-ND◆	—	.98	8.78	39.00	SSL-LX3044HD
		Sup. Red	Water Clear	660	1.8	30	600	30	67-1647-ND◆	—	2.78	24.98	111.00	SSL-LX3044SRC/D
		Red	Water Clear	635	2.1	30	125	30	67-1065-ND◆	—	1.23	11.03	49.00	SSL-LX3044IC
		Red	Red Diff.	635	2.0	30	30	60	67-1066-ND◆	—	1.38	12.38	55.00	SSL-LX3044ID
		Red	Red Trans.	635	2.0	30	30	30	67-1069-ND◆	—	1.23	11.03	49.00	SSL-LX3044IT
		Amber	Amber Diff.	605	2.1	30	15	60	67-1058-ND◆	—	1.23	11.03	49.00	SSL-LX3044AD
		Yellow	Water Clear	585	2.1	30	90	30	67-1077-ND◆	—	1.28	11.48	51.00	SSL-LX3044YC
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1078-ND◆	—	1.18	10.58	47.00	SSL-LX3044YD
		Yellow	Yellow Trans.	585	2.1	30	90	30	67-1081-ND◆	—	1.73	15.53	69.00	SSL-LX3044YT
		Green	Water Clear	565	2.2	25	100	30	67-1059-ND◆	—	1.20	10.80	48.00	SSL-LX3044GC
		Green	Green Diff.	565	2.2	25	40	60	67-1060-ND◆	—	1.10	9.90	44.00	SSL-LX3044GD
		Green	Green Trans.	565	2.2	25	40	30	67-1063-ND◆	—	1.20	10.80	48.00	SSL-LX3044GT
		Pure Green	Green Diff.	555	2.2	25	20	60	67-1073-ND◆	—	1.35	12.15	54.00	SSL-LX3044PGD
		Red	Red Diff.	635	2.0	30	30	60	67-1071-ND◆†	—	1.15	10.35	46.00	SSL-LX3044LID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1072-ND◆†	—	1.13	10.13	45.00	SSL-LX3044LYD
		Green	Green Diff.	565	2.2	25	30	60	67-1070-ND◆†	—	1.05	9.45	42.00	SSL-LX3044LGD
6	T-1 (3mm)	Red	Red Diff.	635	2.1	30	30	60	67-1402-ND◆	—	1.48	13.28	59.00	SSL-LX3052ID
		Yellow	Yellow Diff.	585	2.1	30	15	80	67-1397-ND◆	—	1.50	13.50	60.00	SSL-LX3052YD
		Green	Green Diff.	565	2.2	25	15	80	67-1396-ND◆	—	1.50	13.50	60.00	SSL-LX3052GD
7	Rect. (4x7mm)	Red	Red Diff.	635	2.0	30	12	100	67-1083-ND◆	—	2.58	23.18	103.00	SSL-LX4673ID-LA20
		Yellow	Yellow Diff.	585	2.1	30	6	100	67-1084-ND◆	—	2.58	23.18	103.00	SSL-LX4673YD-LA20
		Green	Green Diff.	565	2.2	25	6	100	67-1082-ND◆	—	2.58	23.18	103.00	SSL-LX4673GD-LA20
8	T-1 3/4 (5mm)	Red	Red Diff.	700	2.0	25	5	60	67-1088-ND◆	—	1.13	10.13	45.00	SSL-LX5063HD
		Red	Water Clear	635	2.0	30	160	30	67-1089-ND◆	—	1.50	13.50	60.00	SSL-LX5063IC
		Red	Red Diff.	635	2.0	30	40	60	67-1090-ND◆	—	1.28	11.48	51.00	SSL-LX5063ID
		Red	Red Trans.	635	2.0	30	160	30	67-1091-ND◆	—	1.43	12.83	57.00	SSL-LX5063IT
		Yellow	Water Clear	585	2.1	30	100	30	67-1093-ND◆	—	1.80	16.20	72.00	SSL-LX5063YC
		Yellow	Yellow Diff.	585	2.1	30	20	60	67-1094-ND◆	—	1.43	12.83	57.00	SSL-LX5063YD
		Yellow	Yellow Trans.	585	2.1	30	100	30	67-1095-ND	—	1.45	13.05	58.00	SSL-LX5063YT
		Green	Water Clear	565	2.2	25	100	30	67-1085-ND◆	—	1.95	17.55	78.00	SSL-LX5063GC
		Green	Green Diff.	565	2.2	25	30	60	67-1086-ND◆	—	1.20	10.80	48.00	SSL-LX5063GD
		Green	Green Trans.	565	2.0	25	100	30	67-1087-ND◆	—	1.28	11.48	51.00	SSL-LX5063GT
		Green	Green Trans.	565	2.2	25	100	30	67-1092-ND†	—	1.95	17.55	78.00	SSL-LX5063LGT
9	T-1 3/4 (5mm)	Green	Green Diff.	565	12.0	12	20	60	67-1099-ND◆	—	3.30	29.70	132.00	SSL-LX5093GD-12V
		Red	Red Diff.	700	5.0	12	3	60	67-1103-ND◆	—	2.63	23.63	105.00	SSL-LX5093HD-5V
		Red	Red Diff.	635	5.0	12	20	60	67-1106-ND◆	—	2.63	23.63	105.00	SSL-LX5093ID-5V
		Green	Green Diff.	565	5.0	12	20	60	67-1100-ND◆	—	2.63	23.63	105.00	SSL-LX5093GD-5V
		Red	Red Diff.	700	2.0	25	5	60	67-1102-ND◆	—	.98	8.78	39.00	SSL-LX5093HD
		Red	Red Trans.	700	2.0	25	25	30	67-1104-ND◆	—	1.30	11.70	52.00	SSL-LX5093HT
		Sup. Red	Red Diff.	660	1.7	30	250	60	67-1648-ND◆	—	1.58	14.18	63.00	SSL-LX5093SRD/D
		Red	Red Diff.	635	2.0	30	40	60	67-1105-ND◆	—	1.05	9.45	42.00	SSL-LX5093ID
		Red	Red Trans.	635	2.0	30	80	30	67-1107-ND◆	—	1.23	11.03	49.00	SSL-LX5093IT
		Amber	Amber Diff.	605	2.0	30	30	60	67-1097-ND◆	—	1.23	11.03	49.00	SSL-LX5093AD
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1116-ND◆	—	1.13	10.13	45.00	SSL-LX5093YD
		Yellow	Yellow Trans.	585	2.1	30	40	30	67-1117-ND◆	—	1.25	11.25	50.00	SSL-LX5093YT
		Green	Green Diff.	565	2.2	25	30	60	67-1098-ND◆	—	1.03	9.23	41.00	SSL-LX5093GD
		Green	Green Trans.	565	2.2	25	50	30	67-1101-ND◆	—	1.20	10.80	48.00	SSL-LX5093GT
		Pure Green	Green Diff.	555	2.2	25	15	60	67-1112-ND◆	—	1.20	10.80	48.00	SSL-LX5093PGD
		Red	Red Diff.	635	2.0	30	40	60	67-1110-ND◆†	—	1.15	10.35	46.00	SSL-LX5093LID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1111-ND◆†	—	1.15	10.35	46.00	SSL-LX5093LYD
		Green	Green Diff.	565	2.2	25	30	60	67-1108-ND◆†	—	1.08	9.68	43.00	SSL-LX5093LGD
		Green	Green Trans.	565	2.2	25	80	30	67-1109-ND◆†	—	1.23	11.03	49.00	SSL-LX5093LGT
		Pink	Water Clear	—	3.2	30	2200	20	67-2062-ND◆‡	—	9.32	83.90	372.90	SSL-LX5093PC
		Turquiose	Water Clear	—	3.2	30	2200	20	67-2063-ND◆‡	—	9.32	83.90	372.90	SSL-LX5093TC
		Purple	Water Clear	—	3.2	30	2200	20	67-2064-ND◆‡	—	8.66	77.92	346.30	SSL-LX5093VC
10	T-1 3/4 (5mm)	Red	Water Clear	635	2.0	30	600	20	67-1120-ND◆	—	1.50	13.50	60.00	SSL-LX5093XIC
		Amber	Water Clear	610	2.0	30	600	20	67-1118-ND◆	—	2.45	22.05	98.00	SSL-LX5093XAC
		Green	Water Clear	565	2.2	25	250	20	67-1119-ND◆	—	1.65	14.85	66.00	SSL-LX5093XGC
		Green	Water Clear	555	2.2	25	45	20	67-1121-ND◆	—	2.48	22.28	99.00	SSL-LX5093XPGC
11	T-1 3/4 (5mm)	Red Green	White Diff.	635 565	2.1	30 25	20	60	67-1124-ND◆	—	3.70	33.30	148.00	SSL-LX5097IGW
12	T-3/4 (2mm)	Red	Red Diff.	635	2.0	30	25	70	67-1125-ND◆	—	1.48	13.28	59.00	SSL-LX20465ID
		Yellow	Yellow Diff.	585	2.1	30	10	70	67-1126-ND◆	—	1.50	13.50	60.00	SSL-LX20465YD
		Green	Green Diff.	565	2.2	25	10	70	67-1127-ND◆	—	1.35	12.15	54.00	SSL-LX20465GD
13	Sq. T-1 (3mm)	Sup. Yellow	Water Clear	590	2.25	70	800	50	67-1128-ND	—	6.78	60.98	271.00	SSL-LX30448SYC
14	Axial (1.8mm)	Red	Red Diff.	635	5.0	30	8	60	67-1131-ND◆	—	5.20	46.80	208.00	SSL-LXA227ID-5V
		Yellow	Yellow Diff.	585	5.0	20	8	60	67-1132-ND◆	—	5.20	46.80	208.00	SSL-LXA227YD-5V
		Green	Green Diff.	565	5.0	30	8	60	67-1130-ND◆	—	5.20	46.80	208.00	SSL-LXA227GD-5V
15	Axial (1.9mm)	Red	Water Clear	660	1.7	25	600	25	67-1137-ND◆†	—	3.43	30.83	137.00	SSL-LXA228SRC
		Red	Red Diff.	660	1.7	25	150	50	67-1138-ND◆†	—	3.85	34.65	154.00	SSL-LXA228SRD
		Red	Water Clear	635	2.0	30	30	25	67-1134-ND◆	—	2.45	22.05	98.00	SSL-LXA228IC
		Red	Red Diff.	635	2.0	30	25	50	67-1135-ND◆	—	2.25	20.25	90.00	SSL-LXA228ID
		Sup. Yellow	Water Clear	585	2.0	30	300	25	67-1139-ND	—	10.55	94.95	422.00	SSL-LXA228SYC
		Yellow	Water Clear	585	2.1	30	30	25	67-1140-ND	—	2.55	22.95	102.00	SSL-LXA228YC
		Green	Water Clear	565	2.2	25	50	25	67-1136-ND◆	—	2.93	26.33	117.00	SSL-LXA228SGC
		Green	Green Diff.	565	2.2	25	12	25	67-1133-ND◆	—	2.25	20.25	90.00	SSL-LXA228GD
16	T-1 3/4 (5mm)	Red Green Blue	Water Clear	636 574 470	1.9 2.1 3.65	30	600 450 150	30	67-1829-ND◆	7.26	60.50	544.50	2420.00	SSL-LX5099SIUBSUGB
17	Round (10mm)	Yellow	Water Clear	590	2.4	350	35lm	25	67-2057-ND◆‡	4.79	39.95	359.55	1598.00	SSL-LX100T123SYC
		Green	Water Clear	525	3.5	350	55lm	25	67-2058-ND◆‡	9.06	75.50	679.50	3020.00	SSL-LX100T123UPGC
		Blue	Water Clear	470	3.2	350	15lm	120	67-2059-ND◆‡	7.99	66.60	599.40	2664.00	SSL-LX100T123USBC
		White	Water Clear	—	3.5	350	37	25	67-2060-ND◆‡	7.99	66.60	599.40	2664.00	SSL-LX100T123UWC
		Red	Water Clear	636	2.0	350	45lm	25	67-2061-ND◆‡	4.79	39.95	359.55	1598.00	SSL-LX100T123SIC

◆ ***RoHS Compliant*** † Low Current Version Lights at (2mA) ‡ ***NEW!***

PC Mount LEDs

Fig. 1

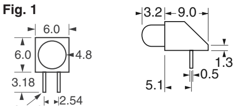

• Lens height for part no.'s 67-1308/09/10/11/12/13-ND = 4.70mm not 3.2mm

Fig. 2

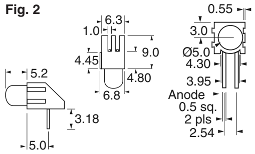

Fig. 3

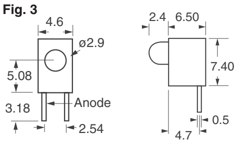

Fig. 4

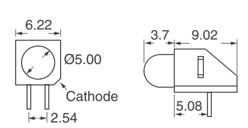

Fig. 5

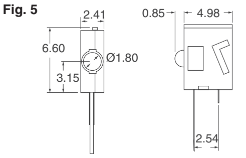

Fig. 6

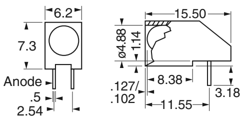

Fig. 7

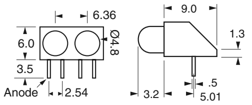

Fig. 8

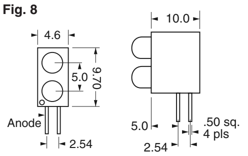

Fig. 9

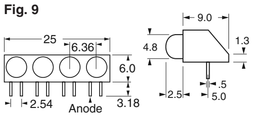

* Lens height for part # 67-1322-ND = 4.75mm not 2.5mm

Fig. 10

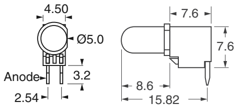

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
1	5mm	Red/Green	White Diffused	700/565	2.0/2.2	25	6/20	60	67-1221-ND◆	.72	.60	.48	SSF-LXH100HGW
		Red	Red Diffused	635	5.0	12	30	60	67-1222-ND◆	.72	.60	.48	SSF-LXH100ID-5V
		Red	Red Diffused	700	2.0	25	6	60	67-1308-ND◆	.48	.40	.32	SSF-LXH100HD-01
		Red	Red Diffused	660	1.7	30	60	60	67-1225-ND◆	.72	.60	.48	SSF-LXH100SRD
		Red	Red Diffused	635	2.0	30	40	60	67-1309-ND◆	.84	.70	.56	SSF-LXH100ID-01
		Red	Red Diffused	635	2.0	30	40	60	67-1217-ND◆	.45	.38	.30	SSF-LXH100ID
		Red	Red Diffused	635	2.0	30	40	60	67-1312-ND†	.84	.70	.56	SSF-LXH100LID-01
		Red	Red Diffused	635	2.0	30	40	60	67-1219-ND◆†	.57	.48	.38	SSF-LXH100LID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1311-ND◆	.84	.70	.56	SSF-LXH100YD-01
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1224-ND◆	.45	.38	.30	SSF-LXH100YD
		Green	Green Diffused	565	2.2	25	30	60	67-1310-ND◆	.84	.70	.56	SSF-LXH100GD-01
		Green	Green Diffused	565	2.2	25	30	60	67-1218-ND◆	.45	.38	.30	SSF-LXH100GD
		Green	Green Diffused	565	5.0	12	10	60	67-1223-ND◆	.72	.60	.48	SSF-LXH100GD-5V
		Green	Green Diffused	565	2.2	25	30	60	67-1313-ND†	.84	.70	.56	SSF-LXH100LGD-01
		Green	Green Diffused	565	2.2	25	30	60	67-1220-ND◆†	.57	.48	.38	SSF-LXH100LGD
2	5mm	Red/Green	White Diffused	700/565	2.0/2.2	30	6/20	60	67-1226-ND◆	.72	.60	.48	SSF-LXH100MHGW
		Red	Red Diffused	635	5.0	12	20	60	67-1233-ND◆	.72	.60	.48	SSF-LXH100MID-5V
		Red	Red Diffused	660	1.8	30	100	60	67-1230-ND◆	.72	.60	.48	SSF-LXH100MSRD
		Red	Red Diffused	635	2.0	30	30	60	67-1227-ND◆	.45	.38	.30	SSF-LXH100MID
		Red	Red Diffused	635	2.0	30	30	60	67-1231-ND†	.57	.48	.38	SSF-LXH100MLID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1229-ND◆	.45	.38	.30	SSF-LXH100MYD
		Green	Green Diffused	565	2.2	25	30	60	67-1228-ND◆	.45	.38	.30	SSF-LXH100MGD
		Green	Green Diffused	565	2.2	25	30	60	67-1232-ND◆†	.57	.48	.38	SSF-LXH100MLGD
		Green	Green Diffused	565	5.0	30	20	60	67-1234-ND◆	.72	.60	.48	SSF-LXH100MGD-5V
3	3mm	Red	Red Diffused	635	5.0	12	9	60	67-1241-ND◆	.66	.55	.44	SSF-LXH103ID-5V
		Red	Red Diffused	660	1.8	30	80	60	67-1238-ND◆	.54	.45	.36	SSF-LXH103SRD
		Red	Red Diffused	635	2.0	30	40	60	67-1239-ND◆†	.54	.45	.36	SSF-LXH103LID
		Red	Red Diffused	635	2.0	30	30	60	67-1235-ND◆	.39	.33	.26	SSF-LXH103ID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1237-ND◆	.39	.33	.26	SSF-LXH103YD
		Green	Green Diffused	565	2.1	30	30	60	67-1236-ND◆	.39	.33	.26	SSF-LXH103GD
		Green	Green Diffused	565	2.1	25	30	60	67-1240-ND◆†	.54	.45	.36	SSF-LXH103LGD
		Green	Green Diffused	565	5.0	12	8	60	67-1242-ND◆	.66	.55	.44	SSF-LXH103GD-5V
		Blue	Blue Diffused	470	3.5	30	80	60	67-2028-ND◆	2.87	2.39	2.16	SSF-LXH103USBD
		White	Water Clear	550	3.6	30	500	30	67-2026-ND◆	2.99	2.49	2.24	SSF-LXH103UWC
4	5mm	Red	Red Diffused	700	5.0	12	3	60	67-1038-ND	.95	.79	.64	SSF-LXH104HD-5V
		Red	Red Diffused	635	2.0	30	40	60	67-1039-ND◆	.32	.27	.22	SSF-LXH104ID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1040-ND◆	.32	.27	.22	SSF-LXH104YD
		Green	Green Diffused	565	2.2	25	30	60	67-1037-ND◆	.32	.27	.22	SSF-LXH104GD
5	1.8mm	Red	Red Diffused	635	2.0	30	8	60	67-1042-ND◆	.72	.61	.49	SSF-LXH555ID
		Yellow	Yellow Diffused	585	2.1	30	8	60	67-1043-ND◆	.72	.61	.49	SSF-LXH555YD
		Green	Green Diffused	565	2.1	25	8	60	67-1041-ND◆	.72	.61	.49	SSF-LXH555GD
6	5mm	Red/Green	White Diffused	700/565	2.1	30	5/8	60	67-1243-ND◆	.81	.68	.54	SSF-LXH1071HGW
		Red	Red Diffused	660	1.7	30	40	60	67-1247-ND◆	.72	.60	.48	SSF-LXH1071SRD
		Red	Red Diffused	635	2.1	30	40	60	67-1244-ND◆	.54	.45	.36	SSF-LXH1071ID
		Red	Red Diffused	635	2.1	30	40	60	67-1248-ND◆†	.66	.55	.44	SSF-LXH1071LID
		Yellow	Yellow Diffused	585	2.1	30	20	60	67-1246-ND◆	.54	.45	.36	SSF-LXH1071YD
		Green	Green Diffused	565	2.1	30	20	60	67-1245-ND◆	.54	.45	.36	SSF-LXH1071GD
		Green	Green Diffused	565	2.1	30	20	60	67-1249-ND◆†	.66	.55	.44	SSF-LXH1071LGD
7	5mm	Red	Red Diffused	660	1.8	30	100	60	67-1253-ND	1.08	.90	.72	SSF-LXH2100SRD
		Red	Red Diffused	635	2.0	30	40	60	67-1250-ND◆	.90	.75	.60	SSF-LXH2100ID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1252-ND	.90	.75	.60	SSF-LXH2100YD
		Green	Green Diffused	565	2.2	25	30	60	67-1251-ND	.90	.75	.60	SSF-LXH2100GD
8	3mm	Red	Red Diffused	635	5.0	12	20	60	67-1260-ND	1.35	1.13	.90	SSF-LXH2103IID-5V/4
		Red	Red Diffused	635	2.0	30	40	60	67-1254-ND◆	.99	.83	.66	SSF-LXH2103IID/4
		Red	Red Diffused	635	2.0	30	40	60	67-1258-ND◆†	1.20	1.00	.80	SSF-LXH2103LIID/4
		Sup. Red	Red Diffused	660	1.7	30	130	60	67-1257-ND◆	1.56	1.30	1.04	SSF-LXH2103SRSRD/4
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1256-ND◆	.99	.83	.66	SSF-LXH2103YYD/4
		Green	Green Diffused	565	5.0	12	20	60	67-1261-ND	1.35	1.13	.90	SSF-LXH2103GGD-5V/4
		Green	Green Diffused	565	2.2	25	30	60	67-1255-ND◆	.99	.83	.66	SSF-LXH2103GGD/4
		Green	Green Diffused	565	2.2	25	30	60	67-1259-ND◆†	1.20	1.00	.80	SSF-LXH2103LGGD/4
9	5mm	Red/Green	White Diffused	700/565	2.1	25	4	60	67-1289-ND◆	2.34	1.95	1.56	SSF-LXH400HGW
		Red	Red Diffused	635	5.0	12	8	60	67-1290-ND◆	2.34	1.95	1.56	SSF-LXH400ID-5V
		Red	Red Diffused	660	1.7	30	100	60	67-1288-ND	2.34	1.95	1.56	SSF-LXH400SRD
		Red	Red Diffused	635	2.0	30	20	60	67-1285-ND◆	1.26	1.05	.84	SSF-LXH400ID
		Yellow	Yellow Diffused	585	2.1	30	20	60	67-1287-ND	1.26	1.05	.84	SSF-LXH400YD
		Green	Green Diffused	565	5.0	12	20	60	67-1291-ND	2.34	1.95	1.56	SSF-LXH400GD-5V
		Green	Green Diffused	565	2.1	25	20	60	67-1322-ND	2.22	1.85	1.48	SSF-LXH400GD-01
		Green	Green Diffused	565	2.1	25	20	60	67-1286-ND◆	1.26	1.05	.84	SSF-LXH400GD
10	5mm	Red/Green	White Diffused	700/565	2.1	25	6	60	67-1292-ND◆	1.38	1.15	.92	SSF-LXH4RA5HGW
		Red	Red Diffused	635	5.0	12	30	60	67-1299-ND	1.38	1.15	.92	SSF-LXH4RA5ID-5V
		Red	Red Diffused	660	1.7	30	80	60	67-1296-ND◆	1.38	1.15	.92	SSF-LXH4RA5SRD
		Red	Red Diffused	635	2.1	30	40	60	67-1297-ND◆†	.96	.80	.64	SSF-LXH4RA5LID
		Red	Red Diffused	635	2.1	30	40	60	67-1293-ND◆	.96	.80	.64	SSF-LXH4RA5ID
		Red (blinking)	Red Diffused	635	3.5	70	20	60	67-1301-ND	2.64	2.20	1.76	SSF-LXH4RA5BID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1295-ND◆	.96	.80	.64	SSF-LXH4RA5YD
		Green	Green Diffused	565	5.0	12	15	60	67-1300-ND	1.38	1.15	.92	SSF-LXH4RA5GD-5V
		Green	Green Diffused	565	2.1	25	30	60	67-1294-ND◆	.96	.80	.64	SSF-LXH4RA5GD
		Green	Green Diffused	565	2.1	25	30	60	67-1298-ND◆†	.96	.80	.64	SSF-LXH4RA5LGD
11	3mm	Red/Green	White Diffused	700/565	2.1	25	3/4	60	67-1302-ND◆	1.38	1.15	.92	SSF-LXH4RAHGW
		Red	Red Diffused	660	1.7	30	80	60	67-1306-ND◆	1.38	1.15	.92	SSF-LXH4RASRD
		Red	Red Diffused	635	2.1	30	40	60	67-1303-ND◆	.96	.80	.64	SSF-LXH4RAID
		Red (blinking)	Red Diffused	635	3.5	20	6	60	67-1307-ND◆	2.64	2.20	1.76	SSF-LXH4RABID

◆ ***RoHS Compliant*** † Low Current Version, Lights at 2mA

(Continued)

PC Mount LEDs *(Cont.)*

Fig. 11

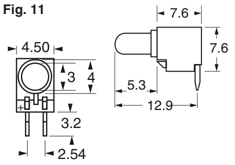

Fig. 12

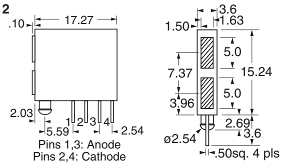

Fig. 13

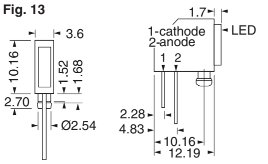

Fig. 14 ***NEW!***

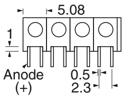

Fig. 15

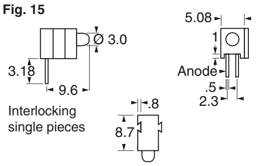

Fig. 16

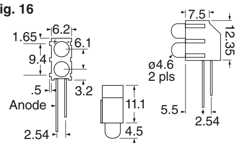

Fig. 17

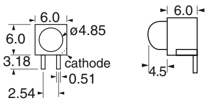

Fig. 18

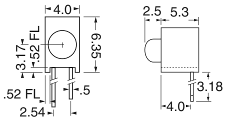

Fig. 19

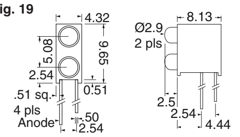

Fig. 20

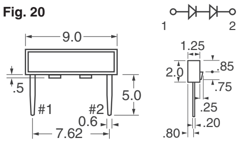

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each			Lumex Part No.
										1	25	100	
11	3mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1305-ND◆	.96	.80	.64	SSF-LXH4RAYD
		Green	Green Diffused	565	2.1	25	30	60	67-1304-ND◆	.96	.80	.64	SSF-LXH4RAGD
12	5.0 x 1.63mm	Red	Red Diffused	660	1.7	30	80	110	67-1265-ND	1.56	1.30	1.04	SSF-LXH22573SRSRD
		Red	Red Diffused	635	2.0	30	10	110	67-1262-ND◆	1.14	.95	.76	SSF-LXH22573IID
		Red	Red Diffused	635	2.0	30	10	110	67-1266-ND†	1.44	1.20	.96	SSF-LXH22573LIID
		Yellow	Yellow Diffused	585	2.1	30	10	110	67-1264-ND◆	1.14	.95	.76	SSF-LXH22573YYD
		Green	Green Diffused	565	2.2	25	10	110	67-1263-ND◆	1.14	.95	.76	SSF-LXH22573GGD
		Green	Green Diffused	565	2.2	25	10	110	67-1267-ND†	1.44	1.20	.96	SSF-LXH22573LGGD
13	2.5 x 7mm	Red/Green	White Diffused	695/565	2.0/2.2	25	2/9	110	67-1268-ND◆	.93	.78	.62	SSF-LXH25780HGW
		Red	Red Diffused	660	1.7	30	50	110	67-1272-ND	.93	.78	.62	SSF-LXH25780SRD
		Red	Red Diffused	635	2.0	30	15	110	67-1269-ND◆	.63	.53	.42	SSF-LXH25780ID
		Yellow	Yellow Diffused	585	2.1	30	9	110	67-1271-ND	.63	.53	.42	SSF-LXH25780YD
		Green	Green Diffused	565	2.2	25	9	110	67-1270-ND◆	.63	.53	.42	SSF-LXH25780GD
14	3mm	Red	Red Diffused	635	2.0	30	40	60	67-2055-ND◆ ***NEW!***	2.04	1.70	1.36	SSF-LXH2300ID-4
15	3mm	Red	Red Diffused	635	2.0	25	50	60	67-1277-ND◆†	.72	.60	.48	SSF-LXH2300LID-LM
		Red	Red Diffused	635	5.0	12	30	60	67-1279-ND◆	.78	.65	.52	SSF-LXH2300ID-5V-LM
		Red	Red Diffused	635	2.0	30	50	60	67-1273-ND◆	.54	.45	.36	SSF-LXH2300ID-LM
		Sup. Red	Red Diffused	660	1.8	30	100	60	67-1276-ND	.78	.65	.52	SSF-LXH2300SRD-LM
		Yellow	Yellow Diffused	585	2.1	30	50	60	67-1275-ND◆	.54	.45	.36	SSF-LXH2300YD-LM
		Green	Green Diffused	565	2.2	25	50	60	67-1274-ND◆	.54	.45	.36	SSF-LXH2300GD-LM
		Green	Green Diffused	565	5.0	12	30	60	67-1280-ND	.78	.65	.52	SSF-LXH2300GD-5V-LM
		Green	Green Diffused	565	2.2	25	50	60	67-1278-ND◆†	.72	.60	.48	SSF-LXH2300LGD-LM
16	5mm	Red/Green	White Diffused	635/565	2.0/2.2	30/25	30/25	60	67-1281-ND◆	1.62	1.35	1.08	SSF-LXHM250IGIGW
		Red	Red Diffused	635	2.0	30	40	60	67-1282-ND◆	.96	.80	.64	SSF-LXHM250IID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1284-ND	.96	.80	.64	SSF-LXH250MYYD
		Green	Green Diffused	565	2.2	25	30	60	67-1283-ND◆	.96	.80	.64	SSF-LXHM250GGD
17	5mm	Red	Red Diffused	635	2.0	30	40	60	67-1317-ND◆	.84	.70	.56	SSF-LXH101ID-01
		Green	Green Diffused	565	2.2	25	30	60	67-1318-ND◆	.84	.70	.56	SSF-LXH101GD-01
18	3mm	Red	Red Diffused	635	2.1	30	40	60	67-1320-ND◆	.84	.70	.56	SSF-LXH303ID
19	3mm	Red	Red Diffused	635	2.0	30	40	60	67-1319-ND◆	1.20	1.00	.80	SSF-LXH240IID
		Green	Green Diffused	565	2.2	25	40	60	67-1321-ND◆	1.20	1.00	.80	SSF-LXH240GGD
20	9.0 x 2.0mm	Red	Red Transparent	660	3.6	30	50	160	67-1326-ND◆	1.08	.90	.72	SSB-LX02SRC
		Red	Red Transparent	635	4.5	30	16	160	67-1323-ND◆	.87	.73	.58	SSB-LX02IC
		Yellow	Yellow Transparent	590	4.5	30	10	160	67-1325-ND	.87	.73	.58	SSB-LX02YC
		Green	Green Transparent	565	4.4	25	10	160	67-1324-ND◆	.87	.73	.58	SSB-LX02GC

◆ ***RoHS Compliant*** † Low Current Version, Lights at 2mA

Light Pipes

RoHS COMPLIANT

Fig.	Recommended LED Series	No. of Positions	Dim. - Inch (mm)		Digi-Key Part No.	Price Each				Lumex Part No.
			H	L		1	10	25	100	
1	SML-LX2832	—	—	—	67-1844-ND	2.29	1.98	1.86	1.35	LPB-R0112051S
2					67-1845-ND	2.31	1.99	1.88	1.36	LPB-S01110101S
3	SML-LX1206 SML-LX1210	—	—	—	67-1847-ND	.97	.84	.79	.57	LPF-C011304S
4	SML-LX23	—	—	—	67-1850-ND	.94	.81	.77	.56	LPF-C012303S
5					67-1851-ND	1.52	1.31	1.23	.89	LPF-C013301S
6					67-1852-ND	1.62	1.40	1.32	.95	LPF-C014301S
7	SML-LX1206 or SML-LX1210	2	—	.540 (13.72)	67-1853-ND	1.97	1.70	1.60	1.16	LPF-C021303S
		3	—	.740 (18.80)	67-1854-ND	2.84	2.45	2.31	1.67	LPF-C031303S
		4	—	.939 (23.84)	67-1855-ND	3.80	3.28	3.08	2.23	LPF-C041303S
		5	—	1.139 (28.92)	67-1856-ND	4.71	4.06	3.82	2.77	LPF-C051303S
8		—	—	—	67-1857-ND	5.22	4.51	4.24	3.07	LPF-C071303S
9	SML-LX0805xx	—	.394 (10)	—	67-1833-ND	1.33	1.15	1.08	.78	LPA-C011301S-10
		—	.787 (20)	—	67-1834-ND	1.28	1.10	1.04	.75	LPA-C011301S-20
		—	1.97 (50)	—	67-1835-ND	1.32	1.14	1.07	.78	LPA-C011301S-50
10	SML-LX0805xx	4	.394 (10)	1.000 (25.40)	67-1836-ND	3.43	2.96	2.78	2.01	LPA-C041301S-10
			.787 (20)		67-1837-ND	3.29	2.84	2.67	1.94	LPA-C041301S-20
			1.97 (50)		67-1838-ND	4.87	4.20	3.95	2.86	LPA-C041301S-50
		8	.394 (10)	1.800 (45.72)	67-1839-ND	7.58	6.54	6.15	4.45	LPA-C081301S-10
			.787 (20)		67-1840-ND	4.70	4.05	3.81	2.76	LPA-C081301S-20
			1.97 (50)		67-1841-ND	4.71	4.07	3.82	2.77	LPA-C081301S-50
11	SML-LX1206xx	—	—	—	67-1846-ND	.84	.72	.68	.49	LPF-C011302S
12	SML-LX23	—	—	—	67-1849-ND	1.34	1.16	1.09	.79	LPF-C012301S
13	SML-LX1206xx	—	—	—	67-1858-ND	.83	.72	.68	.49	LPF-R011362S
14	SML-LX0603xx	25	—	—	67-1859-ND	7.34	6.33	5.95	4.31	LPF-R251321S
15	SML-LX1210xx	—	—	—	67-1860-ND	.27	.24	.22	.16	LPF-S014331S

Fig. 1

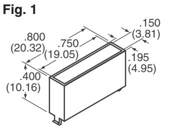

Fig. 2

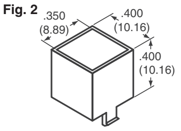

Fig. 3

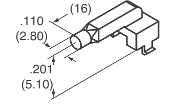

Fig. 4

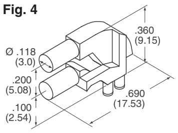

Fig. 5

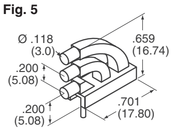

Fig. 6

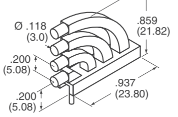

Fig. 7

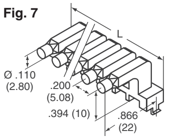

Fig. 8

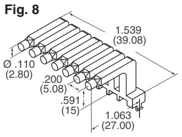

Fig. 9

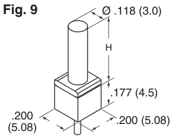

Fig. 10

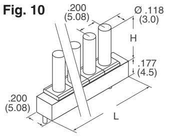

Fig. 11

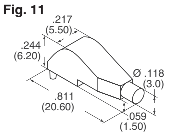

Fig. 12

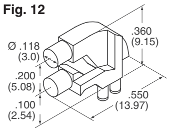

Fig. 13

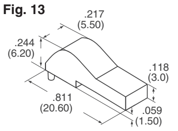

Fig. 14

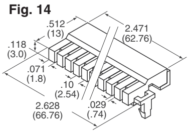

Fig. 15

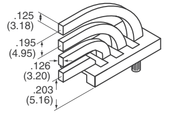

Flexible Light Pipes

Recommended LED: SSL-LX3054XX

Lens Color	Digi-Key Part No.	Price Each				Lumex Part No.
		1	10	25	100	
Blue	67-1861-ND◆	5.45	4.70	4.42	3.20	LPI-C0117001S-150B
Clear	67-1862-ND◆	5.45	4.70	4.42	3.20	LPI-C0117001S-150C
Green	67-1863-ND◆	5.45	4.70	4.42	3.20	LPI-C0117001S-150G
Red	67-1864-ND	5.45	4.70	4.42	3.20	LPI-C0117001S-150R
Yellow	67-1865-ND	5.45	4.70	4.42	3.20	LPI-C0117001S-150Y

◆ ***RoHS Compliant***

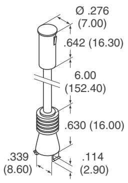

Surface Mount LEDs

Dimensions in mm

Fig. 1 — SOT-23 Footprint

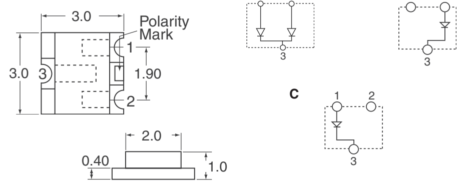

Fig. 2 — 0603

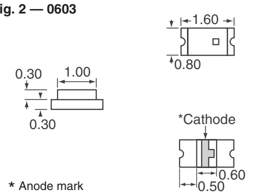

* Anode mark on 67-1551-1-ND

Fig. 3 — 0805

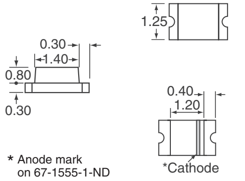

* Anode mark on 67-1555-1-ND

Fig. 4 — 4PLCC

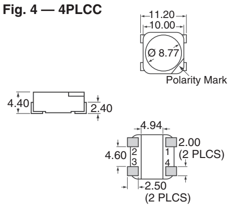

Fig. 5 — 1206

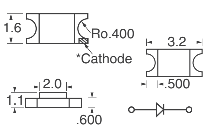

*Anode mark on 67-1359-1-ND 67-1004-1-ND

Fig. 6 — 1209

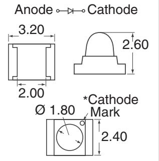

*Anode mark on 67-2021-ND

Fig. 7 — 1210

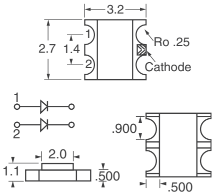

Fig. 8

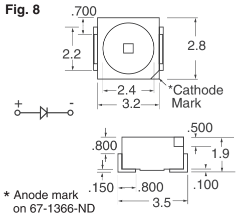

* Anode mark on 67-1366-ND

Fig. 9

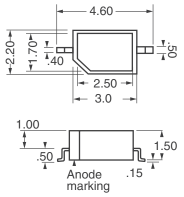

Fig. 10

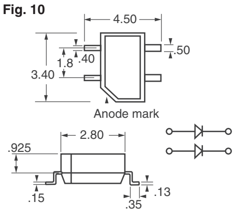

Fig. 11

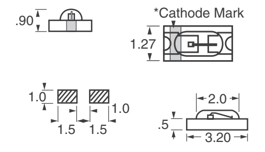

*Anode mark on 67-1355-ND

Fig. 12

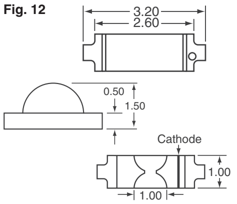

Fig. 13

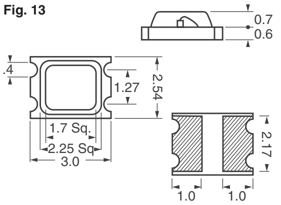

Fig. 14

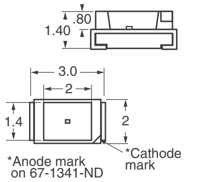

*Anode mark on 67-1341-ND

Fig. 15

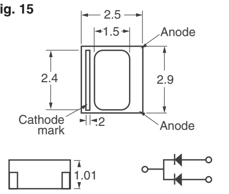

Fig. 16 — Gull Wing

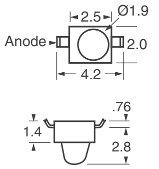

Fig. 17 — Yoke Shaped

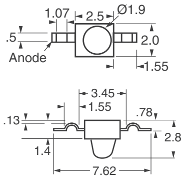

Fig. 18 — Z Bend

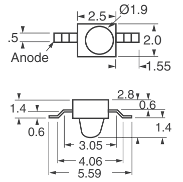

Fig. 19

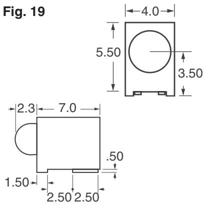

Fig. 20

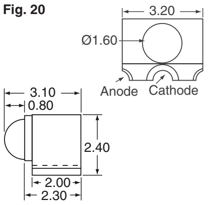

Fig. 21 — Interlocking, Re-Lampable

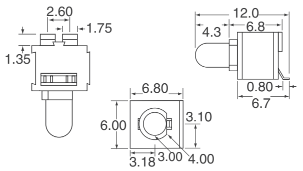

Fig. 22 — Interlocking, Re-Lampable

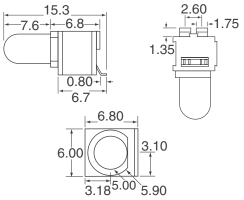

Fig. 23

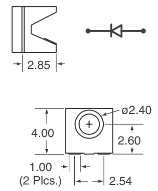

Fig. 24 — 0402

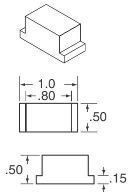

Fig. 25

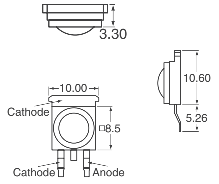

Fig. 26

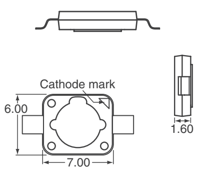

Fig. 27 ***NEW!***

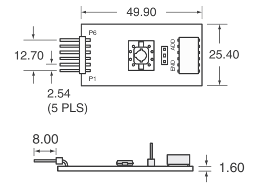

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Lumex Part No.
1A	SOT-23	Red/Green	Water Clear	635/565	2.0/2.1	30/25	10	140	67-1655-1-ND◆	.83	.73	.63	67-1655-2-ND◆	3,000	343.62/M	SML-LX15IGC-RP-TR
		Yellow/Green		585/565	2.1/2.2	30/25	10	140	67-1674-1-ND	.83	.73	.63	67-1674-2-ND	3,000	343.62/M	SML-LX15YGC-RP-TR
1B	SOT-23	Super Red	Water Clear	660	1.7	30	20	140	67-1660-1-ND◆	.56	.50	.43	67-1660-2-ND◆	3,000	234.06/M	SML-LX15SRC-TR
		Red		635	2.0	30	10	140	67-1684-1-ND◆	.52	.46	.40	67-1684-2-ND◆	3,000	217.63/M	SML-LX15IC-TR
		Super Yellow		590	2.1	30	60	140	67-1664-1-ND◆	.58	.51	.44	67-1664-2-ND◆	3,000	240.70/M	SML-LX15SYC-TR
		Super Ultra Green		574	2.2	25	45	140	67-1662-1-ND◆	.58	.51	.44	67-1662-2-ND◆	3,000	240.70/M	SML-LX15SUGC-TR
		Green		565	2.2	25	10	140	67-1685-1-ND◆	.52	.46	.40	67-1685-2-ND◆	3,000	217.46/M	SML-LX15GC-TR
		Ultra Pure Green		525	3.5	30	45	140	67-1666-1-ND	3.13	2.75	2.35	—	—	—	SML-LX15UPGC-TR
		Ultra Super Blue		470	3.5	30	120	140	67-1668-1-ND	3.13	2.75	2.35	67-1668-2-ND	3,000	1299.78/M	SML-LX15USBC-TR
1C	SOT-23	Green		565	2.2	25	10	140	67-1656-1-ND◆	.52	.46	.40	67-1656-2-ND◆	3,000	217.46/M	SML-LX15GC-RP-TR
		Ultra Super Blue		470	3.5	30	120	140	67-1669-1-ND	3.13	2.75	2.35	67-1669-2-ND	3,000	1299.78/M	SML-LX15USBC-RP-TR
2	0603	Super Red	White Diffused	660	1.8	30	45	140	67-1551-1-ND◆	.15	.13	.10	67-1551-2-ND◆	4,000	83.00/M	SML-LX0603SRW-TR
		Red		635	2.0	30	14	160	67-1548-1-ND◆	.15	.13	.10	67-1548-2-ND◆	4,000	83.00/M	SML-LX0603IW-TR
		Yellow		585	2.1	30	14	160	67-1550-1-ND◆	.15	.13	.10	67-1550-2-ND◆	4,000	83.00/M	SML-LX0603YW-TR
		Green		565	2.2	25	18	160	67-1549-1-ND◆	.14	.12	.09	67-1549-2-ND◆	4,000	74.70/M	SML-LX0603GW-TR
3	0805	Super Red	White Diffused	660	1.8	30	21	140	67-1555-1-ND◆	.15	.13	.10	67-1555-2-ND◆	4,000	83.00/M	SML-LXT0805SRW-TR
		Red	White Diffused	635	2.0	30	11	140	67-1552-1-ND◆	.14	.12	.10	67-1552-2-ND◆	4,000	78.02/M	SML-LXT0805IW-TR
		Yellow	White Diffused	585	2.1	30	10	140	67-1554-1-ND◆	.14	.12	.10	67-1554-2-ND◆	4,000	78.02/M	SML-LXT0805YW-TR
		Super Ultra Green	Water Clear	574	2.2	30	40	140	67-1687-1-ND◆	2.49	2.08	1.67	67-1687-2-ND◆	3,000	373.50/M	SML-LX0805SUGC-TR
		Green	White Diffused	565	2.0	30	11	140	67-1553-1-ND◆	.14	.12	.09	67-1553-2-ND◆	4,000	74.70/M	SML-LXT0805GW-TR
4	4-PLCC	Super Orange	Water Clear	620	2.0	500	25,000	90	67-2010-1-ND◆	7.81	6.84	5.86	67-2010-2-ND◆	500	1620.00	SML-LX1110SOC-ATR
		Super Orange		620	2.0	500	20,000	120	67-2011-1-ND◆	7.81	6.84	5.86	67-2011-2-ND◆	500	1620.00	SML-LX1110SOC-BTR
		Super Yellow		590	2.0	500	19,000	90	67-2012-1-ND◆	7.81	6.84	5.86	67-2012-2-ND◆	500	1620.00	SML-LX1110SYC-ATR
		Super Yellow		590	2.0	500	8,500	120	67-2013-1-ND◆	7.81	6.84	5.86	67-2013-2-ND◆	500	1620.00	SML-LX1110SYC-BTR
		Ultra Pure Green		525	3.5	500	10,000	90	67-2014-1-ND◆	32.32	28.28	24.24	67-2014-2-ND◆	500	6706.50	SML-LX1110UPGC-ATR
		Ultra Super Green		525	3.5	500	7,500	120	67-2015-1-ND◆	32.32	28.28	24.24	67-2015-2-ND◆	500	6706.50	SML-LX1110UPGC-BTR

◆ ***RoHS Compliant*** * Low current version, lights at 2mA † Bulk Pricing ‡ Reverse Polarity

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount LEDs *(Cont.)*

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Lumex Part No.
										1	10	100		Qty.	Pricing	
4	4-PLCC	Ultra Super Blue	Water Clear	470	3.5	500	2,800	90	67-2016-1-ND◆	27.70	24.24	20.78	67-2016-2-ND◆	500	5747.00	SML-LX1110USBC-ATR
		Ultra Super Blue		470	3.5	500	250	120	67-2017-1-ND◆	27.70	24.24	20.78	67-2017-2-ND◆	500	5747.00	SML-LX1110USBC-BTR
5	1206	Super Red	Water Clear	660	1.7	30	25	160	67-1359-1-ND◆	.18	.17	.14	67-1359-2-ND◆	3,000	76.36/M	SML-LX1206SRC-TR
		Super Red	White Diffused	660	1.8	30	15	160	67-1004-1-ND◆	.29	.26	.22	67-1004-2-ND◆	3,000	119.52/M	SML-LX1206SRW-TR
		Red	Water Clear	635	2.0	25	6	160	67-1356-1-ND◆	.18	.16	.14	67-1356-2-ND◆	3,000	74.70/M	SML-LX1206IC-TR
		Red	White Diffused	635	2.0	25	6	160	67-1003-1-ND◆	.28	.25	.22	67-1003-2-ND◆	3,000	117.86/M	SML-LX1206IW-TR
		Yellow	Water Clear	585	2.1	25	6	160	67-1358-1-ND◆	.18	.16	.14	67-1358-2-ND◆	3,000	74.70/M	SML-LX1206YC-TR
		Green	Water Clear	565	2.2	25	10	160	67-1357-1-ND◆	.16	.14	.12	67-1357-2-ND◆	3,000	66.40/M	SML-LX1206GC-TR
		Green	White Diffused	565	2.2	25	10	160	67-1002-1-ND◆	.27	.24	.21	67-1002-2-ND◆	3,000	112.88/M	SML-LX1206GW-TR
6	1209 3.2 x 2.4mm	Super Intensity Red	Water Clear	636	2.0	160	600	30	67-2020-1-ND◆	.32	.28	.24	67-2020-2-ND◆	1,000	133.00	SML-LXL1209SIC-TR
		Orange		610	2.0	160	1,500	50	67-2021-1-ND◆	.32	.28	.24	67-2021-2-ND◆	1,000	133.00	SML-LXL1209SOC-TR
		Super Yellow		590	2.0	160	400	50	67-2022-1-ND◆	.32	.28	.24	67-2022-2-ND◆	1,000	133.00	SML-LXL1209SYC-TR
		Super Ultra Green		574	2.2	160	170	30	67-2018-1-ND◆	.42	.38	.32	67-2018-2-ND◆	1,000	176.00	SML-LXL1209SUGC-TR
		Ultra Pure Green		525	3.5	100	1,000	30	67-2019-1-ND◆	2.13	1.87	1.60	67-2019-2-ND◆	1,000	883.00	SML-LXL1209UPGC-TR
		Ultra Super Blue		470	3.5	100	250	50	67-2023-1-ND◆	2.13	1.87	1.60	67-2023-2-ND◆	1,000	883.00	SML-LXL1209USBC-TR
7	1210	Sup. Red/Sup. Red	Water Clear	660	1.7	30	15	160	67-1360-1-ND◆	.64	.56	.48	67-1360-2-ND◆	3,000	265.60/M	SML-LX1210SRSRC-TR
		Red/Green		635/565	2.0/2.2	25	10	160	67-1361-1-ND◆	.34	.30	.26	67-1361-2-ND◆	3,000	141.10/M	SML-LX1210IGC-TR
		Yellow/Green		585/565	2.1/2.2	25	10	160	67-1363-1-ND◆	.34	.30	.26	67-1363-2-ND◆	3,000	141.10/M	SML-LX1210YGC-TR
		Green/Green		565/565	2.2	25	10	160	67-1362-1-ND	.34	.30	.26	67-1362-2-ND	3,000	141.10/M	SML-LX1210GGC-TR
8	3.2 x 2.8mm	Super Red	Water Clear	660	1.7	30	100	120	67-1366-1-ND◆	.80	.70	.60	67-1366-2-ND◆	2,000	332.00/M	SML-LX2832SRC-TR
		Red		635	2.0	30	25	120	67-1364-1-ND◆	.64	.56	.48	67-1364-2-ND◆	2,000	265.60/M	SML-LX2832IC-TR
		Yellow		585	2.1	30	15	120	67-1367-1-ND	.64	.56	.48	67-1367-2-ND	2,000	265.60/M	SML-LX2832YC-TR
		Green		565	2.1	25	25	120	67-1365-1-ND◆	.64	.56	.48	67-1365-2-ND◆	2,000	265.60/M	SML-LX2832GC-TR
9	3.0 x 2.2mm	Super Red	Water Clear	650	1.7	25	30	130	67-1371-1-ND‡	.80	.70	.60	67-1371-2-ND‡	2,000	332.00/M	SSL-LXA1725SRC-TR
		Red		635	2.0	30	12	130	67-1368-1-ND◆	.60	.53	.45	67-1368-2-ND◆	2,000	249.00/M	SSL-LXA1725IC-TR
		Yellow		585	2.1	30	12	130	67-1370-1-ND	.60	.53	.45	67-1370-2-ND	2,000	249.00/M	SSL-LXA1725YC-TR
		Green		565	2.2	25	25	130	67-1369-1-ND◆	.60	.53	.45	67-1369-2-ND◆	2,000	249.00/M	SSL-LXA1725GC-TR
10	3.4 x 2.8mm	Red/Green	Water Clear	635/565	2.0/2.2	30/25	12/20	130	67-1372-1-ND◆	1.08	.95	.81	67-1372-2-ND◆	1,000	448.20	SSL-LXA3025IGC-TR
		Yellow/Green		585/565	2.1/2.2	30/25	12	130	67-1373-1-ND	1.08	.95	.81	67-1373-2-ND	1,000	448.20	SSL-LXA3025YGC-TR
11	1.27 x 3.2mm	Super Red	Red Trans.	660	1.8	30	8	180	67-1355-1-ND◆	1.52	1.33	1.14	67-1355-2-ND◆	3,000	608.00/M	CCL-LX45SRT
		Red	Red Trans.	635	2.1	30	7.2	180	67-1352-1-ND◆	1.41	1.24	1.06	67-1352-2-ND◆	3,000	564.80/M	CCL-LX45IT
		Yellow	Yellow Trans.	585	2.3	30	7	180	67-1354-1-ND	1.46	1.28	1.10	67-1354-2-ND	3,000	584.00/M	CCL-LX45YT
		Green	Green Trans.	565	2.2	30	7	180	67-1353-1-ND◆	1.46	1.28	1.10	67-1353-2-ND◆	3,000	584.00/M	CCL-LX45GT
12	3.2 x 1.0mm	Super Red	Water Clear	660	1.7	30	30	130	67-1559-1-ND‡	.26	.22	.17	67-1559-2-ND‡	3,000	141.10/M	SML-LXR85SRC-TR
		Red		635	2.0	25	12	130	67-1556-1-ND◆	.26	.22	.17	67-1556-2-ND◆	3,000	141.10/M	SML-LXR85IC-TR
		Yellow		585	2.1	25	10	130	67-1558-1-ND	.24	.20	.16	67-1558-2-ND	3,000	131.14/M	SML-LXR85YC-TR
		Green		565	2.2	25	12	130	67-1557-1-ND◆	.23	.19	.16	67-1557-2-ND◆	3,000	126.16/M	SML-LXR85GC-TR
13	3.0 x 2.54mm	Super Red	Water Clear	660	1.7	15	40	180	67-1345-1-ND	1.04	.91	.78	67-1345-2-ND	3,000	431.60/M	CCL-CRS10SR
		Red		635	2.0	25	12	180	67-1342-1-ND◆	.70	.62	.53	67-1342-2-ND◆	3,000	290.50/M	CCL-CRS10R
		Yellow		585	2.1	30	8	180	67-1344-1-ND	.70	.62	.53	67-1344-2-ND	3,000	290.50/M	CCL-CRS10Y
		Green		565	2.2	25	12	180	67-1343-1-ND◆	.70	.62	.53	67-1343-2-ND◆	3,000	290.50/M	CCL-CRS10G
14	3.0 x 2.0mm	Super Red	Water Clear	660	1.7	30	100	90	67-1341-1-ND◆	.48	.42	.36	67-1341-2-ND◆	2,000	199.20/M	SML-LX23SRC-TR
		Red		635	2.0	30	20	90	67-1338-1-ND◆	.36	.32	.27	67-1338-2-ND◆	2,000	149.40/M	SML-LX23IC-TR
		Yellow		585	2.1	30	20	90	67-1340-1-ND◆	.36	.32	.27	67-1340-2-ND◆	2,000	149.40/M	SML-LX23YC-TR
		Green		565	2.1	25	20	90	67-1339-1-ND◆	.36	.32	.27	67-1339-2-ND◆	2,000	149.40/M	SML-LX23GC-TR
15	2.5 x 2.9mm	Sup. Red/Sup. Red	Water Clear	660	1.7	30	40	90	67-1349-1-ND	1.48	1.30	1.11	67-1349-2-ND	2,000	614.20/M	CCL-LX253SRSRC
		Yellow/Green		585/565	2.1	30/25	20	90	67-1351-1-ND	.96	.84	.72	67-1351-2-ND	2,000	398.40/M	CCL-LX253YGC
		Green/Green		565	2.0	25	20	90	67-1350-1-ND	.96	.84	.72	67-1350-2-ND	2,000	398.40/M	CCL-LX253GGC
16	2.0 x 2.5mm	Super Red	Water Clear	660	1.7	25	600	25	67-1393-1-ND◆‡	.78	.69	.59	67-1393-2-ND◆‡	1,000	323.70	SSL-LXA228SRC-TR11
		Red	Water Clear	635	2.0	30	80	25	67-1384-1-ND◆	.47	.42	.36	67-1384-2-ND◆	1,000	195.88	SSL-LXA228IC-TR11
		Yellow	Yellow Diffused	585	2.1	30	15	50	67-1145-1-ND◆	.48	.42	.36	67-1145-2-ND◆	1,000	197.54	SSL-LXA228YD-TR11
		Yellow	Water Clear	585	2.1	30	30	25	67-1386-1-ND◆	.47	.42	.36	67-1386-2-ND◆	1,000	195.88	SSL-LXA228YC-TR11
		Green	Green Diffused	565	2.1	25	4	50	67-1141-1-ND◆	.48	.42	.36	67-1141-2-ND◆	1,000	197.54	SSL-LXA228GD-TR11
		Green	Water Clear	565	2.2	25	30	25	67-1385-1-ND◆	.47	.42	.36	67-1385-2-ND◆	1,000	195.88	SSL-LXA228GC-TR11
17	2.0 x 2.5mm	Super Red	Water Clear	660	1.7	25	600	25	67-1394-1-ND‡	.78	.69	.59	67-1394-2-ND‡	1,000	323.70	SSL-LXA228SRC-TR21
		Red	Red Diffused	635	2.0	30	12	50	67-1143-1-ND◆	.50	.44	.38	67-1143-2-ND◆	1,000	207.50	SSL-LXA228ID-TR21
		Red	Red Diffused	635	2.0	30	12	50	67-1144-1-ND*	.52	.46	.39	67-1144-2-ND*	1,000	215.80	SSL-LXA228LID-TR21
		Red	Water Clear	635	2.0	30	60	25	67-1387-1-ND◆	.47	.42	.36	67-1387-2-ND◆	1,000	195.88	SSL-LXA228IC-TR21
		Yellow	Yellow Diffused	585	2.0	20	12	50	67-1146-1-ND	.48	.42	.36	67-1146-2-ND	1,000	197.54	SSL-LXA228YD-TR21
		Yellow	Water Clear	585	2.0	20	30	25	67-1389-1-ND◆	.47	.42	.36	67-1389-2-ND◆	1,000	195.88	SSL-LXA228YC-TR21
		Green	Green Diffused	565	2.1	30	4	50	67-1142-1-ND	.50	.44	.38	67-1142-2-ND	1,000	207.50	SSL-LXA228GD-TR21
		Green	Water Clear	565	2.1	30	30	25	67-1388-1-ND◆	.47	.42	.36	67-1388-2-ND◆	1,000	195.88	SSL-LXA228GC-TR21
18	2.0 x 2.5mm	Super Red	Water Clear	690	1.7	25	600	25	67-1395-1-ND◆‡	.78	.69	.59	67-1395-2-ND◆‡	1,000	323.70	SSL-LXA228SRC-TR31
		Red		635	2.0	30	60	25	67-1390-1-ND◆	.47	.42	.36	67-1390-2-ND◆	1,000	195.88	SSL-LXA228IC-TR31
		Yellow		585	2.0	20	30	25	67-1392-1-ND◆	.47	.42	.36	67-1392-2-ND◆	1,000	195.88	SSL-LXA228YC-TR31
		Green		565	2.1	30	30	25	67-1391-1-ND◆	.47	.42	.36	67-1391-2-ND◆	1,000	195.88	SSL-LXA228GC-TR31
19	T-1 (3mm) RA	Super Red	Red Diffused	660	1.7	30	80	60	67-1377-1-ND◆	1.00	.88	.75	67-1377-2-ND◆	1,000	415.00	SSF-LXH305SRD-TR
		Red	Red Diffused	635	2.0	30	40	60	67-1374-1-ND◆	.76	.67	.57	67-1374-2-ND◆	1,000	315.40	SSF-LXH305ID-TR
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1376-1-ND◆	.76	.67	.57	67-1376-2-ND◆	1,000	315.40	SSF-LXH305YD-TR
		Green	Green Diffused	565	2.2	25	30	60	67-1375-1-ND◆	.76	.67	.57	67-1375-2-ND◆	1,000	315.40	SSF-LXH305GD-TR
20	RA	Super Red	Water Clear	636	2.0	30	60	110	67-1634-1-ND◆	.51	.45	.39	67-1634-2-ND◆	500	105.41	SMF-2432SIC-TR
		Super Yellow		590	2.1	30	170	110	67-1630-1-ND◆	.51	.45	.39	67-1630-2-ND◆	500	106.24	SMF-2432SYC-TR
		Yellow		585	2.0	30	14	110	67-1632-1-ND	.35	.31	.27	67-1632-2-ND	500	72.21	SMF-2432YC-TR
		Green		565	2.2	25	14	110	67-1631-1-ND◆	.34	.31	.26	67-1631-2-ND◆	500	71.38	SMF-2432GC-TR
		Ultra Green		525	3.5	30	160	110	67-1635-1-ND◆	6.40	5.60	4.80	67-1635-2-ND◆	500	1328.00	SMF-2432UPGC-TR
		Super Blue		470	3.5	30	140	110	67-1832-1-ND◆	3.32	2.91	2.49	67-1832-2-ND◆	500	688.90	SMF-2432USBC-TR
21	T-1 (3mm) RA	Super Red	Red Diffused	660	1.7	30	80	60	67-1644-ND†	.80	.71	.61	—	—	—	SMF-HM1530SRD-305
		Red	Red Diffused	635	2.0	30	30	60	67-1641-ND†◆	.70	.62	.53	—	—	—	SMF-HM1530ID-305
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1642-ND†	.70	.62	.53	—	—	—	SMF-HM1530YD-305
		Green	Green Diffused	565	2.2	25	30	60	67-1643-ND†	.70	.62	.53	—	—	—	SMF-HM1530GD-305
22	T-1 3/4 (5mm) RA	Super Red	Red Diffused	660	1.7	30	100	60	67-1622-ND†	.80	.71	.61	—	—	—	SMF-HM1530SRD-509
		Red	Red Diffused	635	2.0	25	30	60	67-1645-ND†	.70	.62	.53	—	—	—	SMF-HM1530ID-509
		Yellow	Yellow Diffused	585	2.1	25	30	60	67-1620-ND†	.70	.62	.53	—	—	—	SMF-HM1530YD-509
		Green	Green Diffused	565	2.2	25	30	60	67-1621-ND†	.70	.62	.53	—	—	—	SMF-HM1530GD-509
23	3.6 x 4.0mm RA	Super Red		660	1.7	30	80	90	67-1827-1-ND◆‡	.68	.60	.52	67-1827-2-ND◆‡	500	141.93	SML-LXR44SRC-TR
		Super Red		636	2.0	30	170	90	67-2029-1-ND◆	.90	.79	.68	67-2029-2-ND◆	500	187.00	SML-LXR44SIC-TR
		Red	Water Clear	635	2.0	30	25	90	67-1826-1-ND◆	.53	.47	.40	67-1826-2-ND◆	500	110.39	SML-LXR44IC-TR
		Super Yellow	590	2.0	30	200	90		67-2031-1-ND◆	.85	.75	.64	67-2031-2-ND◆	500	176.00	SML-LXR44SYC-TR
		Yellow		585	2.1	30	9	90	67-1828-1-ND◆	.53	.47	.40	67-1828-2-ND◆	500	110.39	SML-LXR44YC-TR
		Super Green	Water Clear	574	2.2	25	210	90	67-2030-1-ND◆	1.35	1.18	1.02	67-2030-2-ND◆	500	279.50	SML-LXR44SUGC-TR
		Green		565	2.2	25	25	90	67-1825-1-ND◆	.53	.47	.40	67-1825-2-ND◆	500	110.39	SML-LXR44GC-TR

◆ ***RoHS Compliant*** * Low current version, lights at 2mA † Bulk Pricing ‡ Reverse Polarity

InGan Surface Mount LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Lumex Part No.
										1	10	100		Qty.	Pricing	
5	1206	Ultra White	Yellow Diffused	550	3.5	30	90	140	67-1866-1-ND◆	3.14	2.75	2.36	67-1866-2-ND◆	3,000	1303.10/M	SML-LX1206UWW-TR
		Ultra Super Blue	Water Clear	470	3.5	25	25	140	67-1701-1-ND◆	2.46	2.15	1.85	67-1701-2-ND◆	3,000	1019.24/M	SML-LX1206USBC-TR
8	2832	Ultra Super Blue	Water Clear	470	3.5	30	60	120	67-1709-1-ND◆	2.46	2.15	1.85	67-1709-2-ND◆	2,000	1019.24/M	SML-LX2832USBC-TR
12	0.5 x 3.2mm	Blue	Water Clear	470	3.5	25	30	160	67-1716-1-ND	1.84	1.54	1.23	67-1716-2-ND	3,000	1019.24/M	SML-LXR85USBC-TR
14	2.0 x 3.0mm	Ultra Super Blue	Water Clear	470	3.5	30	60	90	67-1726-1-ND	2.46	2.15	1.85	67-1726-2-ND	1,000	1019.24	SML-LX23USBC-TR
16	2.0 x 2.5mm Gull Wing	Ultra Super Blue	Water Clear	470	3.5	30	250	25	67-1731-1-ND	2.46	2.15	1.85	67-1731-2-ND	1,000	1019.24	SSL-LXA228USBC-TR11
19	T-1 RA	Ultra Super Blue	Blue Diffused	470	3.5	30	80	60	67-1746-1-ND◆	4.36	3.82	3.27	67-1746-2-ND◆	1,000	1809.40	SSF-LXH305USBD-TR

◆ ***RoHS Compliant***

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount LEDs *(Cont.)*

AlInGaP Surface Mount LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Lumex Part No.
24	0402	Red	Water Clear	636	2.0	30	140	120	67-1878-1-ND◆	.40	.36	.31	67-1878-2-ND◆	2,000	167.66/M	SML-LX0402SIC-TR
		Orange		610	2.0	30	120	120	67-1879-1-ND◆	.38	.33	.29	67-1879-2-ND◆	2,000	156.04/M	SML-LX0402SOC-TR
		Super Yellow		590	2.0	30	60	120	67-1880-1-ND◆	.40	.36	.31	67-1880-2-ND◆	2,000	167.66/M	SML-LX0402SYC-TR
		Green		574	2.2	25	45	120	67-1881-1-ND◆	.82	.72	.62	67-1881-2-ND◆	2,000	338.64/M	SML-LX0402SUGC-TR
2	0603	Super Intensity Red	White Diffused	636	2.0	30	60	140	67-1690-1-ND◆	.41	.34	.28	67-1690-2-ND◆	4,000	225.76/M	SML-LX0603SIW-TR
		Super Orange		610	2.0	30	60	140	67-1691-1-ND◆	.41	.34	.28	67-1691-2-ND◆	4,000	225.76/M	SML-LX0603SOW-TR
		Super Yellow		590	2.0	30	60	140	67-1694-1-ND◆	.49	.41	.33	67-1694-2-ND◆	4,000	272.24/M	SML-LX0603SYW-TR
		Super Ultra Green		574	2.2	25	45	140	67-1693-1-ND◆	.60	.50	.40	67-1693-2-ND◆	4,000	332.00/M	SML-LX0603SUGW-TR
3	0805	Super Red	Water Clear	636	2.0	30	60	140	67-1636-1-ND◆	.36	.30	.24	67-1636-2-ND◆	3,000	199.20/M	SML-LX0805SIC-TR
		Super Orange		610	2.0	30	60	140	67-1637-1-ND◆	.36	.30	.24	67-1637-2-ND◆	3,000	199.20/M	SML-LX0805SOC-TR
		Ultra Green		525	3.5	30	45	140	67-1640-1-ND◆	5.28	4.40	3.52	67-1640-2-ND◆	3,000	2921.60/M	SML-LX0805UPGC-TR
		Super Blue		470	3.5	30	25	140	67-1638-1-ND◆	3.18	2.65	2.12	67-1638-2-ND◆	3,000	1759.60/M	SML-LX0805USBC-TR
5	1206	Super Intensity Red	Water Clear	636	2.0	30	70	140	67-1695-1-ND◆	.24	.22	.19	67-1695-2-ND◆	3,000	101.26/M	SML-LX1206SIC-TR
		Super Orange		610	2.0	30	70	140	67-1696-1-ND◆	.49	.43	.37	67-1696-2-ND◆	3,000	202.52/M	SML-LX1206SOC-TR
		Super Yellow		590	2.0	30	70	140	67-1699-1-ND◆	.66	.58	.50	67-1699-2-ND◆	3,000	272.24/M	SML-LX1206SYC-TR
		Super Ultra Green		574	2.2	25	45	140	67-1698-1-ND◆	1.08	.95	.81	67-1698-2-ND◆	3,000	448.20/M	SML-LX1206SUGC-TR
7	1210	Red/Green	Water Clear	660/565	1.7/2.2	30/25	15/10	160	67-1703-1-ND◆	.83	.73	.63	67-1703-2-ND◆	3,000	343.62/M	SML-LX1210SRSGC-TR
		Red/Red		635	2.0	25	10	160	67-1704-1-ND	.43	.38	.33	67-1704-2-ND	3,000	179.28/M	SML-LX1210IIC-TR
8	2832	Super Intensity Red	Water Clear	636	2.0	30	250	120	67-1705-1-ND◆	.72	.63	.54	67-1705-2-ND◆	2,000	298.80/M	SML-LX2832SIC-TR
		Super Orange		610	2.0	30	300	120	67-1706-1-ND◆	.72	.64	.55	67-1706-2-ND◆	2,000	300.46/M	SML-LX2832SOC-TR
		Super Yellow		590	2.0	30	140	120	67-1708-1-ND◆	.72	.64	.55	67-1708-2-ND◆	2,000	300.46/M	SML-LX2832SYC-TR
		Super Ultra Green		574	2.2	25	150	120	67-1707-1-ND◆	.72	.64	.55	67-1707-2-ND◆	2,000	300.46/M	SML-LX2832SUGC-TR
12	0.5 x 3.2mm	Red	Water Clear	636	2.0	25	70	160	67-1710-1-ND	.40	.33	.27	67-1710-2-ND	3,000	219.12/M	SML-LXR85SIC-TR
		Orange		610	2.0	30	75	160	67-1712-1-ND	.40	.33	.27	—	—	—	SML-LXR85SOC-TR
		Yellow		590	2.0	25	50	160	67-1714-1-ND◆	.55	.46	.37	67-1714-2-ND◆	3,000	305.44/M	SML-LXR85SYC-TR
		Green		574	2.2	25	45	160	67-1713-1-ND◆	.59	.49	.39	67-1713-2-ND◆	3,000	323.70/M	SML-LXR85SUGC-TR
14	2.0 x 3.0mm	Super Intensity Red	Water Clear	636	2.0	30	300	90	67-1722-1-ND◆	.96	.84	.72	67-1722-2-ND◆	2,000	398.40/M	SML-LX23SIC-TR
		Super Yellow		590	2.0	30	200	90	67-1725-1-ND◆	.96	.84	.72	67-1725-2-ND◆	2,000	398.40/M	SML-LX23SYC-TR
		Super Ultra Green		574	2.2	25	80	90	67-1724-1-ND◆	1.24	1.09	.93	67-1724-2-ND◆	2,000	512.94/M	SML-LX23SUGC-TR
16	2.0 x 2.5mm	Super Intensity Red	Water Clear	636	2.0	30	475	25	67-1727-1-ND◆	.82	.72	.62	67-1727-2-ND◆	1,000	338.64	SSL-LXA228SIC-TR11
		Super Orange		610	2.0	30	700	25	67-1728-1-ND◆	.82	.72	.62	67-1728-2-ND◆	1,000	338.64	SSL-LXA228SOC-TR11
		Super Yellow		590	2.0	30	300	25	67-1730-1-ND◆	.66	.58	.50	67-1730-2-ND◆	1,000	272.24	SSL-LXA228SYC-TR11
		Super Green		575	2.2	25	200	25	67-1729-1-ND◆	.51	.45	.39	67-1729-2-ND◆	1,000	210.49	SSL-LXA228SUGC-TR11
19	T-1 (3mm) RA	Super Orange	Orange Diffused	610	2.1	30	100	60	67-1744-1-ND	2.16	1.89	1.62	—	—	—	SSF-LXH305SOD-TR
		Super Green	Green Diffused	565	2.2	30	150	60	67-1742-1-ND◆	1.20	1.06	.91	67-1742-2-ND◆	1,000	499.66	SSF-LXH305SGD-TR

◆ ***RoHS Compliant***

High Power 1 Watt LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Iv (lm)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	50	Lumex Part No.
25	10.60 x 10mm	Red	Water Clear	625	2.1	350	22	70	67-2034-ND	3.96	3.60	3.10	SML-LX1610SIC
								110	67-2035-ND	3.96	3.60	3.10	SML-LX1610SIC/A
		Yellow	Water Clear	590	2.1	350	22	70	67-2036-ND	3.96	3.60	3.10	SML-LX1610SYC
								110	67-2037-ND	3.96	3.60	3.10	SML-LX1610SYC/A
		Green	Water Clear	525	4.0	350	25	70	67-2038-ND	6.93	6.30	5.42	SML-LX1610UPGC
								110	67-2039-ND	6.93	6.30	5.42	SML-LX1610UPGC/A
		Blue	Water Clear	470	3.5	350	5	70	67-2040-ND	6.93	6.30	5.42	SML-LX1610USBC
								110	67-2041-ND	6.93	6.30	5.42	SML-LX1610USBC/A
		Ultra White	Water Clear	—	3.5	350	30	70	67-2042-ND	6.93	6.30	5.42	SML-LX1610UWC
								110	67-2043-ND	6.93	6.30	5.42	SML-LX1610UWC/A

High Power 1.5 Watt LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Iv (lm)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 250	Lumex Part No.
26	7.0 x 6.0mm	Super Red	Clear	630	2.0	350	23	120	67-2045-1-ND	6.39	5.60	4.80	67-2045-2-ND	663.25	SML-LX2723SIC-TR
		Super Yellow	Clear	590	2.0	350	23	120	67-2046-1-ND	6.39	5.60	4.80	67-2046-2-ND	663.25	SML-LX2723SYC-TR
		Ultra Pure Green	Clear	525	3.2	350	33	120	67-2047-1-ND	12.08	10.57	9.06	67-2047-2-ND	1253.25	SML-LX2723UPGC-TR
		Ultra Blue	Clear	470	3.2	350	5	120	67-2048-1-ND	10.66	9.33	8.00	67-2048-2-ND	1105.50	SML-LX2723USBC-TR
		Ultra White	Clear	—	3.2	350	23	120	67-2049-1-ND	10.66	9.33	8.00	67-2049-2-ND	1105.50	SML-LX2723UWC-TR

NEW! Light Engine LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Iv (lm)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	5	10	100	Lumex Part No.
27	Development Boards	White	Clear	—	3.2	350	23	120	67-2050-ND	15.96	14.77	13.25	11.97	LXP-LIGHTENGINE-W
		Super Red	Clear	630	2.0	350	23	120	67-2051-ND	15.96	14.77	13.25	11.97	LXP-LIGHTENGINE-R
		Ultra Blue	Clear	470	3.2	350	5	120	67-2052-ND	15.96	14.77	13.25	11.97	LXP-LIGHTENGINE-B
		Super Yellow	Clear	590	2.0	350	23	120	67-2053-ND	15.96	14.77	13.25	11.97	LXP-LIGHTENGINE-Y
		Ultra Pure Green	Clear	525	3.2	350	33	120	67-2054-ND	15.96	14.77	13.25	11.97	LXP-LIGHTENGINE-G

SMT RGB (Red/Green/Blue) LEDs

Fig. 1

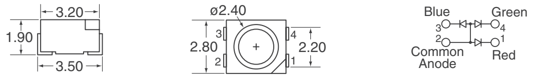

Fig. 2

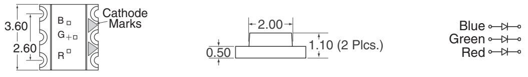

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Lumex Part No.
1	2.8 x 3.2mm	Red	Water Clear	660	1.7	30	80	120	67-1820-1-ND	2.58	2.26	1.94	67-1820-2-ND	2,000	1070.70/M	SML-LX2832SISUGSBC
		Green		574	2.2	25	60									
		Blue		430	3.5	30	60									
2	3.2 x 3.6mm	Red	Water Clear	636	2.0	25	75	120	67-1821-1-ND	2.58	2.26	1.94	67-1821-2-ND	1,000	1070.70	SML-LX3632SISUGSBC
		Green		574	2.2	25	60									
		Blue		430	3.5	30	50									

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LEDs

Fig. 1

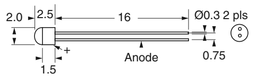

Fig. 2

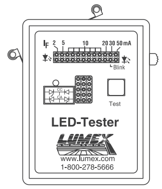

Fig. 3

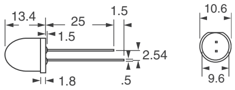

Fig. 4

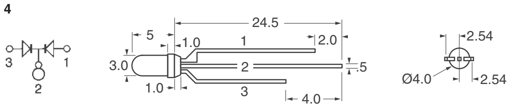

Fig.	LED Diameter (mm)	Emitted Color	Operating Current (mA)	Operating Type Volt (V)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
Ceramic Stem LEDs									
1	2	Orange/Red	20	2.0	67-1197-ND◆	1.02	.85	.68	SSL-LX203CIT
	2	Green	20	2.2	67-1198-ND◆	1.02	.85	.68	SSL-LX203CGT
	2	Yellow	20	2.1	67-1199-ND◆	1.02	.85	.68	SSL-LX203CYT
	2	Red	20	1.7	67-1200-ND◆	1.26	1.05	.84	SSL-LX203CSRT
2	LED Tester Box				67-2033-ND	38.00	—	—	TRILED-TEST-BOX

Fig.	Emitted Color	Epoxy Lens Color	Typical mCD Intensity @ 20mA If	Emission Total Angle	Peak Wave-length	Vf @ 20mA If Typ.	Max.	Steady If Max.	Digi-Key Part No.	Price Each 1	10	25	Lumex Part No.
10MM Mega-Brite Lites													
3	Or/Red	Clear	4500	8°	620nm	2.1	2.5	30mA	67-1399-ND◆	2.37	1.98	1.78	SSL-LX100133XOC
	Green	Clear	1600	8°	568nm	2.2	2.7	25mA	67-1400-ND	.72	.60	.54	SSL-LX100133XGC
	Yellow	Clear	2500	8°	590nm	2.1	2.5	30mA	67-1401-ND◆	2.61	2.18	1.96	SSL-LX100133XYC/B

Fig.	Color Pin 1	Pin 3	Vf	Io (mcd)	View Angle	If (mA)	Digi-Key Part No.	Price Each 1	25	100	250	Lumex Part No.
Bi-Color LEDs — RoHS Compliant												
4	Green	Yellow	2.0	30/30	60°	20	67-1329-ND	.75	.63	.51	.44	SSL-LX3059GYW
	Red	Green	2.0	30	60°	20	67-1327-ND	.75	.63	.51	.44	SSL-LX3059IGW
	Red	Yellow	2.0	30	60°	20	67-1328-ND	.75	.63	.51	.44	SSL-LX3059IYW

◆ ***RoHS Compliant***

Low Battery Indicators

Emitted Color: Red **Wavelength (NM):** 660
Intensity: 3mcd **Standby Current:** 5μA

Fig. 1

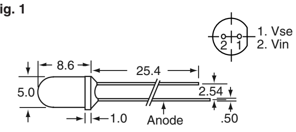

Fig. 2

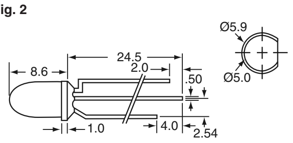

Fig. 3

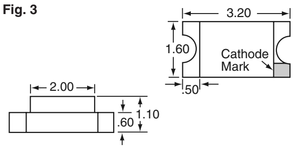

Fig. 4

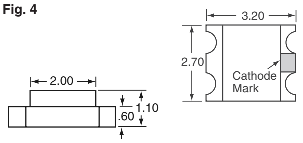

Fig.	Detection Voltage (V)	View-ing Angle	Digi-Key Part No.	Cut Tape Price Each 1	10	25	100	Lumex Part No.
1	2.5	60°	67-1195-ND◆†	1.11	—	.93	.74	SSL-LX5093LBI-SRD
2	3.75 - 7.5	60°	67-1196-ND◆†	1.44	—	1.20	.96	SSL-LX5099LBI-SRD
3	2.5	140°	67-1193-1-ND	1.80	1.58	—	1.35	SML-LX1206LBI-SRD
4	3.75 - 7.5	140°	67-1194-1-ND	2.28	2.00	—	1.71	SML-LX1210LBI-SRD

◆ ***RoHS Compliant*** † Bulk pricing

T-1 3/4 Flashing LED Lamps

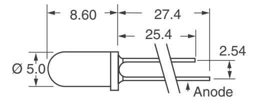

Features:

- Operating Voltage: 3.0 ~ 14.0
- Blinking Frequency: 1.5 ~ 2.5Hz
- Operating Temperature Range: -55°C ~ 100°C

Color	Color Source	Io @ VF=9V (mcd)	Viewing Angle	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
Red/Diff.	Brt. Red	200	60°	67-1499-ND	.93	.78	.62	SSL-LX5093BSRD
Dark Red/Diff.	Red	4.0	60°	67-1497-ND	.84	.71	.57	SSL-LX5093BHD
Red/Diff.	Red	40	60°	67-1498-ND	.84	.71	.57	SSL-LX5093BID
Green/Diff.	Green	20	60°	67-1496-ND	.84	.71	.57	SSL-LX5093BGD
Yellow/Diff.	Yellow	20	60°	67-1495-ND	.84	.71	.57	SSL-LX5093BYD

20mm 6-Element LED Dome

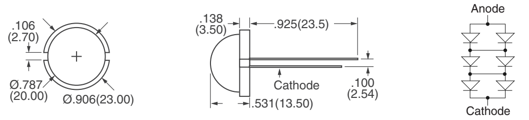

Color	Wave-length λ (nm)	Vf Typ. (V)	If Max. (mA)	Io @ If = 20mA (mcd)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
Green	565	6.6	25	25	67-1526-ND	1.74	1.45	1.16	SSL-LX20R6GD
Red	635	6.0	30	35	67-1527-ND	1.74	1.45	1.16	SSL-LX20R6ID
Red	660	5.1	30	60	67-1528-ND	2.22	1.85	1.48	SSL-LX20R6SRD
Yellow	585	6.3	30	23	67-1529-ND	1.74	1.45	1.16	SSL-LX20R6YD

PC Mount LED Arrays / Light Bars

Fig. 1

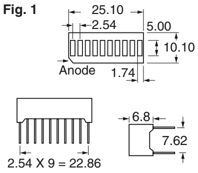

Fig. 2

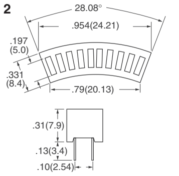

Fig. 3

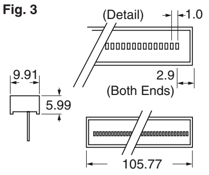

Fig. 4

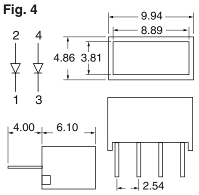

Fig. 5

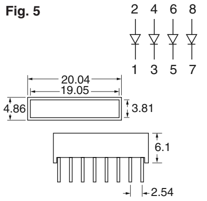

Fig. 6

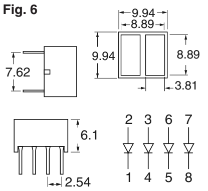

Fig. 7

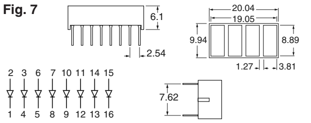

Fig. 8

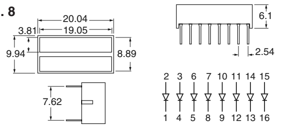

Fig. 9

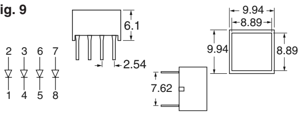

Fig. 10

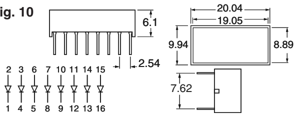

Fig.	Emitted Color	Vf	Io (mcd)	If (mA)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
1	Green	2.2	10	25	67-1008-ND◆	2.85	2.38	1.90	SSA-LXB10GW-GF/LP
1	Red	2.0	4	30	67-1009-ND◆	2.13	1.78	1.42	SSA-LXB10HW-GF/LP
1	Red	2.0	10	30	67-1010-ND◆	2.85	2.38	1.90	SSA-LXB10IW-GF/LP
2	Green	2.2	10	30	67-1524-ND◆	3.90	3.25	2.60	SSA-LXB10GW-10652
2	Red	1.7	40	30	67-1525-ND◆	6.72	5.60	4.48	SSA-LXB10SRW-10652
3	Red	2.1	5	30	67-1011-ND◆	58.06	51.23	47.81	SSA-LXB8825
3	Green	2.2	5	30	67-1012-ND◆	58.06	51.23	47.81	SSA-LXB8835
4	Red	2.0	25	30	67-1013-ND◆	.91	.76	.61	SSB-LX2300IW
5	Red	2.1	50	30	67-1014-ND◆	1.36	1.14	.91	SSB-LX2350IW
4	Yellow	2.1	18	30	67-1015-ND◆	.91	.76	.61	SSB-LX2400YW
5	Yellow	2.1	40	30	67-1016-ND◆	1.36	1.14	.91	SSB-LX2450YW
4	Green	2.2	25	25	67-1017-ND◆	.91	.76	.61	SSB-LX2500SGW
6	Red	2.1	25	30	67-1018-ND◆	1.49	1.25	1.00	SSB-LX2600IW
7	Red	2.1	25	30	67-1019-ND◆	2.36	1.97	1.57	SSB-LX2620IW
8	Red	2.0	50	30	67-1020-ND	2.36	1.97	1.57	SSB-LX2635IW
9	Red	2.1	45	30	67-1021-ND◆	1.49	1.25	1.00	SSB-LX2655IW
10	Red	2.1	80	30	67-1022-ND◆	2.36	1.97	1.57	SSB-LX2685IW
6	Yellow	2.1	18	30	67-1023-ND	1.49	1.25	1.00	SSB-LX2700YW
7	Yellow	2.1	18	30	67-1024-ND◆	2.36	1.97	1.57	SSB-LX2720YW
8	Yellow	2.1	40	30	67-1025-ND	2.36	1.97	1.57	SSB-LX2735YW
9	Yellow	2.1	35	30	67-1026-ND◆	1.49	1.25	1.00	SSB-LX2755YW
10	Yellow	2.1	70	30	67-1027-ND◆	2.36	1.97	1.57	SSB-LX2785YW
9	Red/Yel	2.1	25	30	67-1028-ND	2.49	2.08	1.66	SSB-LX2950IYW
9	Red/Grn	2.1	25	30/25	67-1029-ND◆	2.49	2.08	1.66	SSB-LX2965IGW
4	Red	1.7	40	30	67-1030-ND◆	1.04	.87	.70	SSB-LXA100SRW
5	Red	1.7	80	30	67-1031-ND◆	1.53	1.28	1.03	SSB-LXB100SRW
9	Red	1.7	80	30	67-1032-ND◆	2.35	1.96	1.57	SSB-LXC100SRW
6	Red	1.7	40	30	67-1033-ND	2.35	1.96	1.57	SSB-LXD100SRW
7	Red	1.7	40	30	67-1034-ND◆	2.72	2.27	1.81	SSB-LXE100SRW
8	Red	1.7	80	30	67-1035-ND◆	2.72	2.27	1.81	SSB-LXF100SRW
10	Red	1.7	150	30	67-1036-ND◆	2.72	2.27	1.81	SSB-LXH100SRW
5	Green	2.2	150	20	67-2032-5-ND◆	6.96	5.80	4.06	SSB-LX2550SUGW

◆ ***RoHS Compliant***

Panel Mount LEDs

Dimensions in mm

Fig. 1

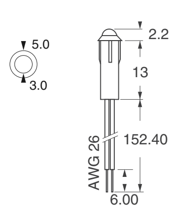

Fig. 2

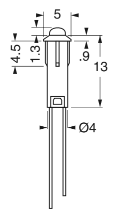

Fig. 3

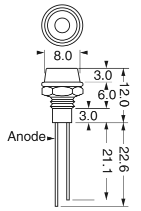

Fig. 4

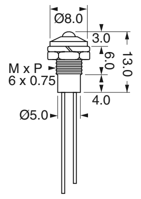

Fig. 5

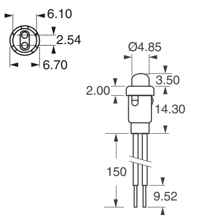

Fig. 6

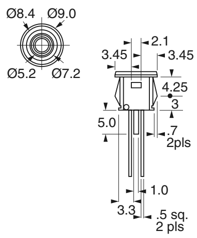

Fig. 7

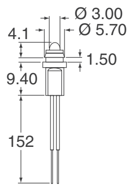

(rear panel mount)

Fig. 8

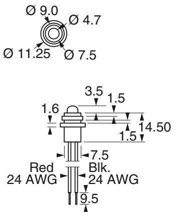

(rear panel mount)

Fig. 9

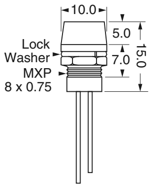

(reflector bezel)

Fig. 10

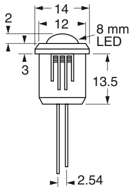

Fig. 11

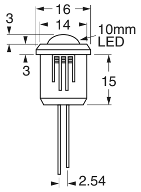

Fig. 12

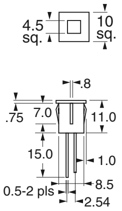

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	V_f (V) Typical	I_f (mA) Maximum	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each			Lumex Part No.
										1	10	50	
1	T-1 (3mm)	Red	Red Diffused	635	2.0	30	30	60	67-1190-ND◆	1.20	.96	.84	SSI-LXH312ID-150
		Green	Green Diffused	565	2.1	25	30	60	67-1191-ND◆	1.20	.96	.84	SSI-LXH312GD-150
2	T-1 (3mm)	Red	Red Diffused	635	2.0	30	30	60	67-1192-ND◆	.63	.50	.44	SSI-LXH312ID
3	T-1 (3mm)	Super Red	Red Diffused	660	1.8	30	70	60	67-1150-ND◆	1.25	1.00	.88	SSI-LXR1612SRD
		Red	Red Diffused	635	2.0	30	30	60	67-1147-ND◆	1.13	.90	.79	SSI-LXR1612ID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1149-ND◆	1.13	.90	.79	SSI-LXR1612YD
		Green	Green Diffused	565	2.2	25	30	60	67-1148-ND◆	1.13	.90	.79	SSI-LXR1612GD
4	T-1 (3mm)	Super Red	Red Diffused	660	1.8	30	65	60	67-1154-ND◆	1.30	1.04	.91	SSI-LXR3612SRD
		Red	Red Diffused	635	2.0	30	30	60	67-1151-ND◆	1.18	.94	.83	SSI-LXR3612ID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1153-ND◆	1.18	.94	.83	SSI-LXR3612YD
		Green	Green Diffused	565	2.2	25	30	60	67-1152-ND◆	1.18	.94	.83	SSI-LXR3612GD
5	T-1 3/4 (5mm)	Red/Green	White Diffused	700/565	2.0/2.2	25	6/25	60	67-1187-ND◆	1.88	1.50	1.32	SSI-LXH600HGW-150
		Red	Red Diffused	635	2.0	30	40	60	67-1188-ND◆	1.15	.92	.81	SSI-LXH600ID-150
		Green	Green Diffused	565	2.2	25	30	60	67-1189-ND◆	1.15	.92	.81	SSI-LXH600GD-150
6	T-1 3/4 (5mm)	Super Red	Red Diffused	660	1.7	30	60	120	67-1158-ND◆	1.30	1.04	.91	SSI-LXH387SRD
		Red	Red Diffused	635	2.0	30	10	120	67-1155-ND◆	1.13	.90	.79	SSI-LXH387ID
		Yellow	Yellow Diffused	585	2.1	30	10	120	67-1157-ND◆	1.13	.90	.79	SSI-LXH387YD
		Green	Green Diffused	565	2.2	30	10	120	67-1156-ND◆	1.13	.90	.79	SSI-LXH387GD
7	T-1 (3mm)	Super Red	Red Diffused	660	1.7	30	100	60	67-1677-ND◆	2.44	1.96	1.71	SSI-RM3091SRD-150
		AllnGap Red	Red Diffused	636	2.0	30	100	60	67-1679-ND◆	2.60	2.08	1.82	SSI-RM3091SID-150
		Red	Red Diffused	635	2.0	30	30	60	67-1676-ND◆	2.16	1.73	1.52	SSI-RM3091ID-150
		Super Orange	Orange Diffused	610	2.0	30	100	60	67-1680-ND◆	2.49	1.99	1.75	SSI-RM3091SOD-150
		Super Yellow	Yellow Diffused	590	2.1	30	100	60	67-1682-ND◆	2.49	1.99	1.75	SSI-RM3091SYD-150
		Super Ultra Green	Green Diffused	574	2.2	25	50	60	67-1688-ND◆	2.75	2.20	1.93	SSI-RM3091SUGD-150
		Yellow	Yellow Diffused	585	2.1	30	20	60	67-1678-ND◆	2.16	1.73	1.52	SSI-RM3091YD-150
		Green	Green Diffused	565	2.2	25	20	60	67-1675-ND◆	2.16	1.73	1.52	SSI-RM3091GD-150
		Ultra Super Blue	Blue Diffused	470	3.5	30	60	60	67-1683-ND◆	4.55	3.64	3.19	SSI-RM3091USBD-150
8	T-1 3/4 (5mm)	Super Red	Red Diffused	660	1.7	30	80	60	67-1162-ND◆	1.38	1.10	.97	SSI-LXH9SRD-150
		Red	Red Diffused	635	2.0	30	40	60	67-1159-ND◆	1.23	.98	.86	SSI-LXH9ID/-150
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1161-ND◆	1.23	.98	.86	SSI-LXH9YD-150
		Green	Green Diffused	565	2.2	25	30	60	67-1160-ND◆	1.23	.98	.86	SSI-LXH9GD-150
9	T-1 3/4 (5mm)	Super Red	Red Diffused	660	1.8	30	300	60	67-1166-ND◆	1.25	1.00	.88	SSI-LXR4815SRD
		Red	Red Diffused	635	2	30	40	60	67-1163-ND◆	1.13	.90	.79	SSI-LXR4815ID
		Yellow	Yellow Diffused	585	2.1	30	20	60	67-1165-ND◆	1.13	.90	.79	SSI-LXR4815YD
		Green	Green Diffused	565	2.2	25	30	60	67-1164-ND◆	1.13	.90	.79	SSI-LXR4815GD
10	8mm	Super Red	Red Diffused	660	1.7	30	80	60	67-1170-ND◆	.85	.68	.60	SSI-LXH8080SRD
		Red	Red Diffused	635	2.0	30	40	60	67-1167-ND◆	.70	.56	.49	SSI-LXH8080ID

◆ ***RoHS Compliant***

(Continued)

Panel Mount LEDs *(Cont.)*

Fig. 13

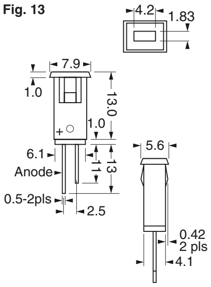

Fig. 14

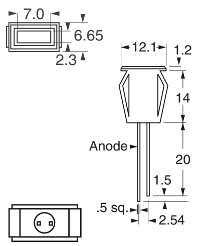

Fig. 15

Panel cutout:
10.25 mm
square

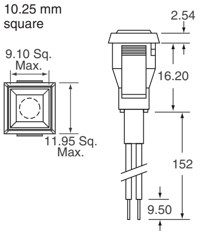

Fig. 16

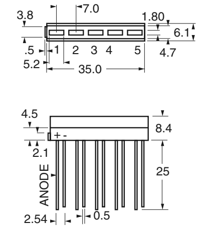

Fig. 17

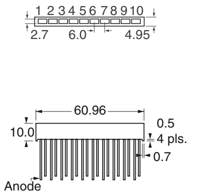

Fig. 18

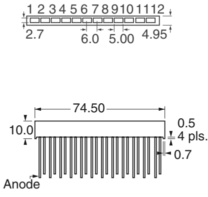

Fig. 19

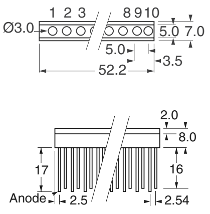

Fig. 20

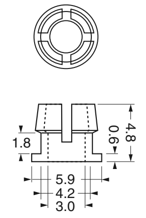

Fig. 21

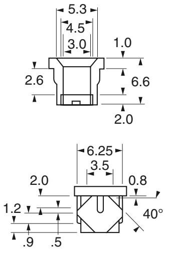

Fig. 22

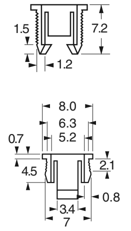

Fig. 23

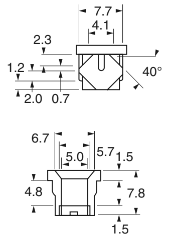

Fig. 24

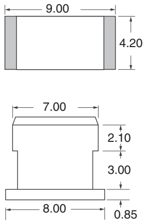

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	V_f (V) Typical	I_f (mA) Maximum	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	50	Lumex Part No.
10	8mm	Yellow	Yellow Diffused	585	2.1	30	30	60	67-1169-ND◆	.70	.56	.49	SSI-LXH8080YD
		Green	Green Diffused	565	2.2	25	30	60	67-1168-ND◆	.70	.56	.49	SSI-LXH8080GD
11	10mm	Super Red	Red Diffused	660	1.7	30	80	60	67-1174-ND◆	.98	.78	.69	SSI-LXH1090SRD
		Red	Red Diffused	635	2.0	30	40	60	67-1171-ND◆	.85	.68	.60	SSI-LXH1090ID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1173-ND◆	.85	.68	.60	SSI-LXH1090YD
		Green	Green Diffused	565	2.2	25	30	60	67-1172-ND◆	.85	.68	.60	SSI-LXH1090GD
12	5mm	Super Red	Red Diffused	660	1.8	30	20	80	67-1178-ND◆	.80	.64	.56	SSI-LXH55SRD
		Red	Red Diffused	635	2.0	30	10	80	67-1175-ND◆	.65	.52	.46	SSI-LXH55ID
		Yellow	Yellow Diffused	585	2.1	30	10	80	67-1177-ND◆	.65	.52	.46	SSI-LXH55YD
		Green	Green Diffused	565	2.2	25	10	80	67-1176-ND◆	.65	.52	.46	SSI-LXH55GD
13	2 x 5mm	Super Red	Red Diffused	660	1.7	30	25	110	67-1182-ND	1.15	.92	.81	SSI-LXMP059SRD
		Red	Red Diffused	635	2.0	30	10	110	67-1179-ND◆	.95	.76	.67	SSI-LXMP059ID
		Yellow	Yellow Diffused	585	2.1	30	10	110	67-1181-ND◆	.95	.76	.67	SSI-LXMP059YD
		Green	Green Diffused	565	2.2	25	10	110	67-1180-ND◆	.95	.76	.67	SSI-LXMP059GD
14	2.3 x 7mm	Super Red	Red Diffused	660	1.7	30	50	110	67-1186-ND◆	1.00	.80	.70	SSI-LXH072SRD
		Red	Red Diffused	635	2.0	30	15	110	67-1183-ND◆	.85	.68	.60	SSI-LXH072ID
		Yellow	Yellow Diffused	585	2.1	30	9	110	67-1185-ND◆	.85	.68	.60	SSI-LXH072YD
		Green	Green Diffused	565	2.2	25	9	110	67-1184-ND◆	.85	.68	.60	SSI-LXH072GD
15	9 x 9mm	Super Red	Water Clear	660	1.8	30	60	60	67-1545-ND◆	1.65	1.32	1.16	SSI-LXMP5011SRC-150
		Red	Water Clear	635	2.0	30	20	60	67-1544-ND	1.50	1.20	1.05	SSI-LXMP5011IC-150
		Yellow	Water Clear	585	2.1	30	15	60	67-1546-ND◆	1.50	1.20	1.05	SSI-LXMP5011YC-150
		Green	Water Clear	565	2.2	25	15	60	67-1543-ND◆	1.50	1.20	1.05	SSI-LXMP5011GC-150
16	2 x 5mm	Super Red	Red Diffused	660	1.7	30	40	110	67-1204-ND◆	2.48	1.98	1.74	SSA-LXB525SRD
		Red	Red Diffused	635	2.0	30	12	110	67-1201-ND◆	1.53	1.22	1.07	SSA-LXB525ID
		Yellow	Yellow Diffused	585	2.1	30	10	110	67-1203-ND◆	1.60	1.28	1.12	SSA-LXB525YD
		Green	Green Diffused	565	2.0	25	10	110	67-1202-ND◆	1.53	1.22	1.07	SSA-LXB525GD
17	2.5 x 5mm	Super Red	Red Diffused	660	1.8	30	25	60	67-1208-ND◆	4.45	3.56	3.12	SSA-LXH1025SRD
		Red	Red Diffused	635	2.0	30	10	60	67-1205-ND◆	3.10	2.48	2.17	SSA-LXH1025ID
		Yellow	Yellow Diffused	585	2.1	30	10	60	67-1207-ND◆	3.48	2.78	2.44	SSA-LXH1025YD
		Green	Green Diffused	565	2.2	25	10	60	67-1206-ND◆	3.10	2.48	2.17	SSA-LXH1025GD
18	2.5 x 5mm	Super Red	Red Diffused	660	2.0	30	30	80	67-1212-ND◆	6.63	5.30	4.64	SSA-LXH1225SRD
		Red	Red Diffused	635	2.0	30	10	80	67-1209-ND◆	4.55	3.64	3.19	SSA-LXH1225ID
		Yellow	Yellow Diffused	585	2.1	30	10	80	67-1211-ND◆	4.78	3.82	3.35	SSA-LXH1225YD
		Green	Green Diffused	565	2.0	30	10	80	67-1210-ND◆	4.55	3.64	3.19	SSA-LXH1225GD
19	3mm	Super Red	Red Diffused	660	1.7	30	25	80	67-1216-ND◆	5.48	4.38	3.84	SSA-LXB102SRD
		Red	Red Diffused	635	2.0	30	8	80	67-1213-ND◆	3.73	2.98	2.61	SSA-LXB102ID
		Yellow	Yellow Diffused	585	2.1	30	8	80	67-1215-ND	3.48	2.78	2.44	SSA-LXB102YD
		Green	Green Diffused	565	2.1	25	8	80	67-1214-ND◆	3.73	2.98	2.61	SSA-LXB102GD

◆ ***RoHS Compliant***

LED Holders

Fig.	Description	Panel Hole	Digi-Key Part No.	Pricing 5	25	100	Lumex Part No.
20	T1 Black Nylon	.160” (4.06)	67-1330-ND◆	.60	2.25	7.50	SSH-LX3050
21	T1 Black Nylon	.225” (5.71)	67-1331-ND	.60	2.25	7.50	SSH-LXH301
22	T1-3/4 Black Nylon	.250” (6.35)	67-1332-ND◆	.40	1.50	5.00	SSH-LX5091
23	T1-3/4 Black Nylon	.330” (8.38)	67-1333-ND◆	.60	2.25	7.50	SSH-LXH501
24	Mounting Clip and Ring for T1-3/4	.250” (6.35)	67-1044-ND◆	.36	1.35	4.50	SSH-LX5090

◆ ***RoHS Compliant***

Sunbrite

Based LEDs

Fig. 1

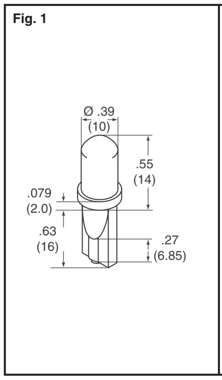

Fig. 2

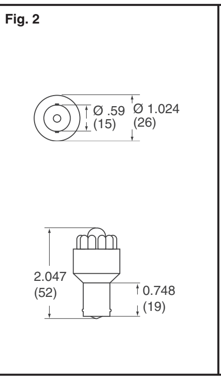

Fig. 3

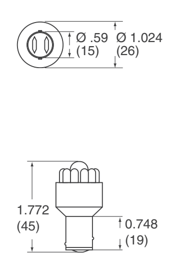

Fig. 4

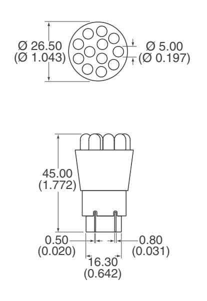

Fig. 5

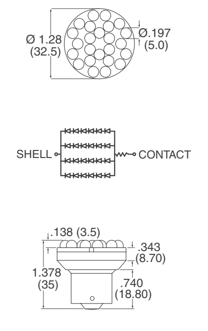

Fig. 6

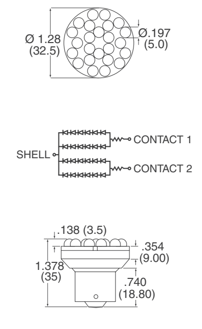

Fig.	Emitted Color	Lens	Peak Wave-length (nm)	V_f (V) Typ.	I_f (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	100	Sunbrite Part No.
LED Miniature Wedge Base												
1	Red	Milky White Diff.	626	12	30	2800	60	441-1004-ND	.99	.83	.66	SSP-01TWB6UW12
	Red	Water Clear	626	12	30	8000	30	441-1005-ND	.99	.83	.66	SSP-01TWB6UWB12
	Ultra Green	Milky White Diff.	525	12	30	2800	60	441-1000-ND	1.60	1.34	1.07	SSP-01TWB2UPW12
	Pure Green	Water Clear	525	12	30	9000	30	441-1001-ND	1.60	1.34	1.07	SSP-01TWB2UPWB12
	Super Blue	Milky White Diff.	470	12	30	1600	60	441-1006-ND	1.50	1.25	1.00	SSP-01TWB7UW12
	Super Blue	Water Clear	470	12	30	7000	30	441-1007-ND	1.60	1.34	1.07	SSP-01TWB7UWB12
	Ultra White	Milky White Diff.	—	12	30	3300	60	441-1008-ND	1.60	1.34	1.07	SSP-01TWB9W12
	Ultra White	Water Clear	—	12	30	11000	30	441-1009-ND	1.60	1.34	1.07	SSP-01TWB9WB12
1156 Based LED Lamp												
2	Red	Water Clear	626	12	110	47000	30	441-1012-ND	4.18	3.34	2.93	SSP-1156B156U12
	Yellow		590	12	110	48500	30	441-1011-ND	4.18	3.34	2.93	SSP-1156B153S12
	Green		525	12	110	70400	30	441-1010-ND	11.50	10.07	8.63	SSP-1156B152UP12
	Super Blue		470	12	110	13500	30	441-1013-ND	10.52	9.21	7.89	SSP-1156B157U12
	Ultra White		—	12	110	48000	30	441-1014-ND	11.50	10.07	8.63	SSP-1156B15912
1157 Based LED Lamp												
3	Red	Water Clear	626	12	80	47000/15600	30	441-1016-ND	4.18	3.34	2.93	SSP-1157B156U12
	Yellow		590	12	80	48500/16100	30	441-1015-ND	4.18	3.34	2.93	SSP-1157B153S12
	Ultra White		—	12	80	48000/16000	30	441-1017-ND	11.46	10.03	8.60	SSP-1157B15912
3157 Based LED Lamp												
4	Red	Water Clear	626	12	75	8000/2700	35	441-1084-ND	5.20	4.55	3.90	SSP-3157WB6U12
	Super Yellow		590	12	75	8300/2800	35	441-1083-ND	5.20	4.55	3.90	SSP-3157WB3S12
	Ultra Super Blue		470	12	75	8300/2800	35	441-1085-ND	9.80	8.58	7.35	SSP-3157WB7U12
	Ultra White		—	12	75	8200/2750	35	441-1086-ND	10.40	9.10	7.80	SSP-3157WB912
Bayonet (BA15) Base												
5	Red	Water Clear	626	12	140	102400	60	441-1026-ND	9.25	7.40	6.48	SSP-24MB156U12G
	Yellow		590	12	140	106200	30	441-1025-ND	9.25	7.40	6.48	SSP-24MB153S12G
6	Red	Water Clear	626	12	140	102400/33800	60	441-1029-ND	9.25	7.40	6.48	SSP-24MDB156U12G
	Yellow		590	12	140	106200/35000	60	441-1028-ND	9.25	7.40	6.48	SSP-24MDB153S12G

Tyco Electronics AMP

Authorized Distributor

SMT Poke-In LED Lighting Connectors

Digi-Reel® RoHS COMPLIANT

The SMT Poke-In LED lighting connector is a low profile, PCB mount connector specifically designed for LED lighting applications. It works with 18AWG solid, stranded or fused; 20AWG solid or fused; and 22AWG solid wire.

Performance Data: Materials: • Housing: High temperature resistant thermoplastic • Contact: Copper alloy, tin over Nickel plating

Electrical: • Voltage: 250V • Current Rating: 4A

Mechanical: • 5 pound minimum wire retention • Operating Temperature: -25°C ~ 105°C

Standards and Specifications: UL 1977 recognized

Applications: • LED channel letter lighting strips • General illumination LED fixtures • Backlight engines • Outdoor LED street and walkway lighting • Architectural cove and valence lighting • Digital signage

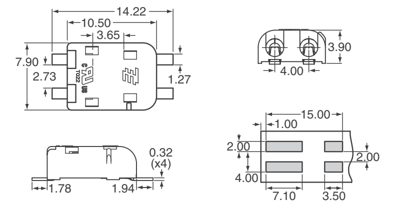

Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 800	AMP Part No.
A97618CT-ND	.73	.67	.47	A97618TR-ND	330.36	1954097-1

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

SMD LED Displays

Dimensions in mm

Fig. 1

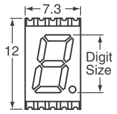

Fig. 2

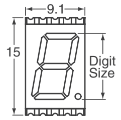

Fig. 3

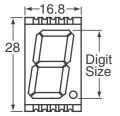

Fig. 4

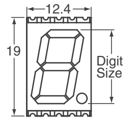

Fig.	Emitted Color	Peak Wavelength (nm)	Digit Size Inch (mm)	No. of Digits	Forward Voltage (Typ.) (V)	If (Max.) (mA)	Iv (µcd) @ 10mA (Min.)	(Typ.)	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Kingbright Part No.
1	Red	627	0.3 (7.62)	1	2.0	30	1200	4210	754-1023-1-ND	2.21	1.55	1.33	754-1023-2-ND	550	437.80	ACSA03-41EWA-F01
	Green	565	0.3 (7.62)	1	2.2	25	1200	5600	754-1024-1-ND	2.28	1.71	1.37	754-1024-2-ND	550	450.45	ACSA03-41SGWA-F01
	Red	660	0.3 (7.62)	1	1.85	30	4700	19000	754-1025-1-ND	2.34	1.76	1.41	754-1025-2-ND	550	463.10	ACSA03-41SRWA-F01
	Red	627	0.3 (7.62)	1	2.0	30	1200	4210	754-1037-1-ND	2.21	1.55	1.33	754-1037-2-ND	550	437.80	ACSC03-41EWA-F01
	Green	565	0.3 (7.62)	1	2.2	25	1200	5600	754-1038-1-ND	2.28	1.71	1.37	754-1038-2-ND	550	450.45	ACSC03-41SGWA-F01
	Red	660	0.3 (7.62)	1	1.85	30	4700	19000	754-1039-1-ND	2.34	1.76	1.41	754-1039-2-ND	550	463.10	ACSC03-41SRWA-F01
2	Green	574	0.4 (10.16)	1	2.1	30	4700	17400	754-1026-1-ND	3.22	2.42	1.94	754-1026-2-ND	400	515.20	ACSA04-41CGKWA-F01
	Green	565	0.4 (10.16)	1	2.2	25	1900	7000	754-1027-1-ND	2.45	1.84	1.47	754-1027-2-ND	400	392.00	ACSA04-41SGWA-F01
	Red	660	0.4 (10.16)	1	1.85	30	4700	18000	754-1028-1-ND	2.59	1.95	1.56	754-1028-2-ND	400	414.40	ACSA04-41SRWA-F01
	Red	650	0.4 (10.16)	1	1.95	30	8000	26000	754-1029-1-ND	2.59	1.95	1.56	754-1029-2-ND	400	414.40	ACSA04-41SURKWA-F01
	Green	574	0.4 (10.16)	1	2.1	30	4700	17400	754-1040-1-ND	3.22	2.42	1.94	754-1040-2-ND	400	515.20	ACSC04-41CGKWA-F01
	Green	565	0.4 (10.16)	1	2.2	25	1900	7000	754-1041-1-ND	2.45	1.84	1.47	754-1041-2-ND	400	392.00	ACSC04-41SGWA-F01
	Red	660	0.4 (10.16)	1	1.85	30	4700	18000	754-1042-1-ND	2.59	1.95	1.56	754-1042-2-ND	400	414.40	ACSC04-41SRWA-F01
	Red	650	0.4 (10.16)	1	1.95	30	8000	26000	754-1043-1-ND	2.59	1.95	1.56	754-1043-2-ND	400	414.40	ACSC04-41SURKWA-F01
3	Green	574	0.8 (20.32)	1	2.1	30	8000	30000	754-1030-1-ND	4.90	3.68	2.94	754-1030-2-ND	250	490.00	ACSA08-51CGKWA
	Green	565	0.8 (20.32)	1	2.2	25	1900	7500	754-1031-1-ND	4.20	3.15	2.52	754-1031-2-ND	200	336.00	ACSA08-51SGWA
	Red	650	0.8 (20.32)	1	1.95	30	18000	61000	754-1032-1-ND	4.55	3.42	2.73	754-1032-2-ND	200	364.00	ACSA08-51SURKWA
	Green	574	0.8 (20.32)	1	2.1	30	8000	30000	754-1044-1-ND	4.90	3.68	2.94	754-1044-2-ND	250	490.00	ACSC08-51CGKWA
	Green	565	0.8 (20.32)	1	2.2	25	1900	7500	754-1045-1-ND	4.20	3.15	2.52	754-1045-2-ND	200	336.00	ACSC08-51SGWA
	Red	650	0.8 (20.32)	1	1.95	30	18000	61000	754-1046-1-ND	4.55	3.42	2.73	754-1046-2-ND	250	455.00	ACSC08-51SURKWA
4	Green	574	0.56 (14.22)	1	2.1	30	8000	35500	754-1033-1-ND	3.50	2.63	2.10	754-1033-2-ND	400	560.00	ACSA56-41CGKWA-F01
	Green	565	0.56 (14.22)	1	2.2	25	3000	13200	754-1034-1-ND	3.01	2.26	1.81	754-1034-2-ND	400	481.60	ACSA56-41SGWA-F01
	Red	660	0.56 (14.22)	1	1.85	30	8000	26000	754-1035-1-ND	3.15	2.37	1.89	754-1035-2-ND	400	504.00	ACSA56-41SRWA-F01
	Red	650	0.56 (14.22)	1	1.95	30	4700	30000	754-1036-1-ND	3.15	2.37	1.89	754-1036-2-ND	400	504.00	ACSA56-41SURKWA-F01
	Green	574	0.56 (14.22)	1	2.1	30	8000	35500	754-1047-1-ND	3.50	2.63	2.10	754-1047-2-ND	400	560.00	ACSC56-41CGKWA-F01
	Green	565	0.56 (14.22)	1	2.2	25	3000	13200	754-1048-1-ND	3.01	2.26	1.81	754-1048-2-ND	400	481.60	ACSC56-41SGWA-F01
	Red	660	0.56 (14.22)	1	1.85	30	8000	26000	754-1049-1-ND	3.15	2.37	1.89	754-1049-2-ND	400	504.00	ACSC56-41SRWA-F01
	Red	650	0.56 (14.22)	1	1.95	30	4700	30000	754-1050-1-ND	3.15	2.37	1.89	754-1050-2-ND	400	504.00	ACSC56-41SURKWA-F01

Light Bar Graph

Dimensions in mm

Fig. 1

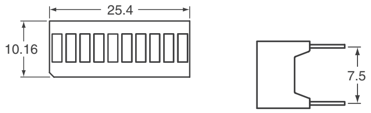

Fig. 2

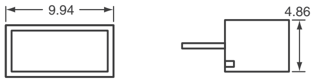

Fig. 3

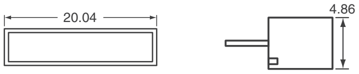

Fig. 4

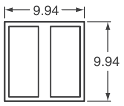

Fig. 5

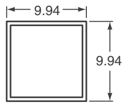

Fig. 6

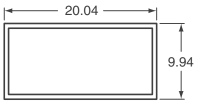

Fig.	LED Color	No. of Elements	Forward Voltage (Typ.) (V)	Forward Current (Max.) (mA)	Iv (mcd) @ 20mA (Min.)	(Typ.)	Digi-Key Part No.	Price Each 1	25	100	Kingbright Part No.
1	HE Red	10	2.0	30	1900†	9000†	754-1176-5-ND	1.68	1.30	1.06	DC10EWA
	Green	10	2.2	25	3000†	16000†	754-1177-5-ND	1.68	1.30	1.06	DC10GWA
	Red	10	1.85	30	8000†	31000†	754-1178-5-ND	1.68	1.30	1.06	DC10SRWA
	Yellow	10	2.1	30	1900†	9000†	754-1179-5-ND	1.68	1.30	1.06	DC10YWA
2	HE Red	2	2.0	30	7	40	754-1180-5-ND	.68	.53	.43	KB2300EW
	Yellow	2	2.1	30	7	40	754-1182-5-ND	.68	.53	.43	KB2400YW
	Green	2	2.2	25	7	40	754-1184-5-ND	.68	.53	.43	KB2500SGD
3	HE Red	4	2.0	30	10	50	754-1181-5-ND	.92	.72	.58	KB2350EW
	Yellow	4	2.1	30	10	50	754-1183-5-ND	.92	.72	.58	KB2450YW
	Green	4	2.2	25	18	70	754-1185-5-ND	.92	.72	.58	KB2550SGD
4	HE Red	4	2.0	30	10	50	754-1186-5-ND	1.10	.86	.70	KB2600EW
	Yellow	4	2.1	30	7	40	754-1189-5-ND	1.10	.86	.70	KB2700YW
	Green	4	2.2	25	10	50	754-1192-5-ND	1.10	.86	.70	KB2800SGD
5	HE Red	4	2.0	30	10	60	754-1187-5-ND	1.10	.86	.70	KB2655EW
	Yellow	4	2.1	30	10	50	754-1190-5-ND	1.10	.86	.70	KB2755YW
	Green	4	2.2	25	18	80	754-1193-5-ND	1.10	.86	.70	KB2855SGD
6	HE Red	8	2.0	30	10	60	754-1188-5-ND	1.89	1.47	1.19	KB2685EW
	Yellow	8	2.1	30	10	50	754-1191-5-ND	1.89	1.47	1.19	KB2785YW
	Green	8	2.2	25	50	200	754-1194-5-ND	1.89	1.47	1.19	KB2885SGD

† Iv (µcd) @ 10mA

Kingbright Through-Hole LEDs

Dimensions in mm

Fig. 1

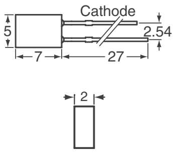

Fig. 2

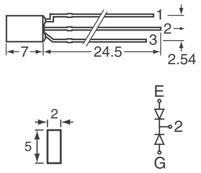

Fig. 3

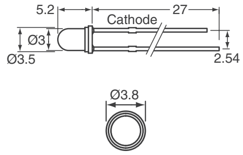

Fig. 4

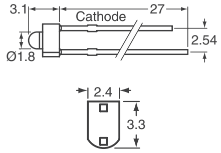

Fig. 5

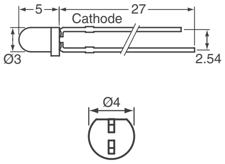

Fig. 6

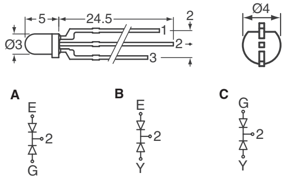

Fig. 7

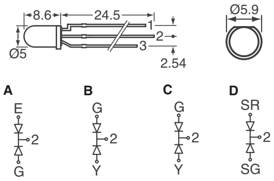

Fig. 8

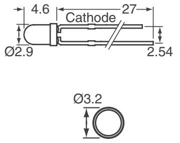

Fig. 9

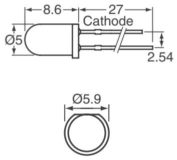

Fig. 10

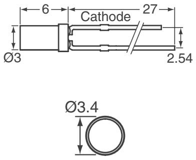

Fig. 11

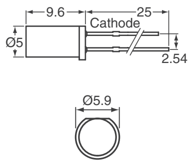

Fig. 12

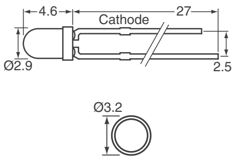

Fig.	Package Type	Emitted Color	Lens	Peak Wavelength (nm)	Forward Voltage (Typ.) (V)	Forward Current (Max.) (mA)	Iv (mcd) @ 20mA		View Angle	Digi-Key Part No.	Pricing			Kingbright Part No.
							(Min.)	(Typ.)			1	25	100	
1	2 x 5mm	Green	Diffused	565	2.2	25	1.8†	5†	110°	754-1200-ND	.10	1.96	6.35	WP113GDT
		HE Red	Diffused	627	2.0	30	3†	5†	110°	754-1201-ND	.10	1.96	6.35	WP113IDT
		Red	Diffused	660	1.85	30	36	80	110°	754-1202-ND	.13	2.54	8.23	WP113SRDT
		Yellow	Diffused	590	2.1	30	1†	4†	110°	754-1203-ND	.10	1.96	6.35	WP113YDT
2	2 x 5mm	HE Red/Grn	White Diffused	627/565	2/2.2	30/25	7/4	20/12	110°	754-1204-ND	.24	4.71	15.28	WP119EGWT
3	3mm	Green	Diffused	565	2.2	25	8†	15†	60°	754-1210-ND	.09	1.81	5.88	WP132XGD
		HE Red	Diffused	627	2.0	30	8†	25†	60°	754-1211-ND	.10	1.89	6.11	WP132XID
		Yellow	Diffused	590	2.1	30	5†	15†	60°	754-1212-ND	.10	1.89	6.11	WP132XYD
4	1.8mm	Green	Diffused	565	2.2	25	5†	10†	70°	754-1213-ND	.17	3.34	10.81	WP2060GD
		HE Red	Diffused	627	2.0	30	8†	15†	70°	754-1214-ND	.17	3.34	10.81	WP2060ID
		Red	Diffused	660	1.85	30	70	200	70°	754-1215-ND	.17	3.34	10.81	WP2060SRD
		Yellow	Diffused	590	2.1	30	5†	8†	70°	754-1216-ND	.17	3.34	10.81	WP2060YD
5	3mm	Green	Diffused	565	2.2	25	8†	20†	50°	754-1217-ND	.10	1.89	6.11	WP3A8GD
		Red	Diffused	700	2.25	25	1†	2.5†	50°	754-1218-ND	.10	1.89	6.11	WP3A8HD
		HE Red	Diffused	627	2.0	30	8†	25†	50°	754-1219-ND	.10	1.96	6.35	WP3A8ID
		Yellow	Diffused	590	2.1	30	5†	15†	50°	754-1220-ND	.10	1.96	6.35	WP3A8YD
6A	3mm	HE Red/Grn	White Diffused	627/565	2/2.2	30/25	10/10	40/35	60°	754-1221-ND	.27	5.22	16.92	WP3VEGW
6B		HE Red/Ylw	White Diffused	627/590	2/2.1	30	10/7	40/15	60°	754-1222-ND	.27	5.22	16.92	WP3VEYW
6C		Grn/Yellow	White Diffused	565/590	2.2/2.1	25/30	10/7	35/15	60°	754-1223-ND	.27	5.22	16.92	WP3VGYW
7A	5mm	HE Red/Grn	White Diffused	627/565	2/2.2	30/25	18/18	60/50	60°	754-1232-ND	.24	4.71	15.28	WP59EGW
7B		HE Red/Ylw	White Diffused	627/590	2/2.1	30	18/18	60/40	60°	754-1233-ND	.24	4.71	15.28	WP59EYW
7C		Grn/Yellow	White Diffused	565/590	2.2/2.1	25/30	18/18	50/40	60°	754-1234-ND	.24	4.71	15.28	WP59GYW
7D		Red/Green	White Diffused	660/565	1.85/2.2	30/25	110/18	220/50	60°	754-1235-ND	.27	5.22	16.92	WP59SRSGW/CC
8	3mm	Green	Water Clear	574	2.1	30	110	350	34°	754-1240-ND	.13	2.54	8.23	WP7104CGCK
		Green	Diffused	565	2.2	25	8†	20†	40°	754-1242-ND	.09	1.81	5.88	WP7104GD
		HE Red	Diffused	627	2.0	30	8†	20†	40°	754-1243-ND	.09	1.81	5.88	WP7104ID
		Green	Diffused	565	1.9	25	0.7‡	2‡	40°	754-1244-ND	.09	1.81	5.88	WP7104LGD
		HE Red	Diffused	627	1.7	30	0.7‡	3‡	40°	754-1245-ND	.09	1.81	5.88	WP7104LID
		Red	Diffused	660	1.65	30	8‡	20‡	40°	754-1246-ND	.10	1.89	6.11	WP7104LSRD
		Yellow	Diffused	590	1.85	30	0.7‡	1.5‡	40°	754-1247-ND	.10	1.89	6.11	WP7104LYD
		Blue	Water Clear	468	3.2	30	180	1000	20°	754-1248-ND	.42	8.05	26.09	WP7104PBC/A
		Blue	Water Clear	458	3.2	30	1200	2200	45°	754-1249-ND	1.27	24.51	79.43	WP7104PBC/Z
		Orange	Water Clear	610	2.0	30	480	1300	34°	754-1250-ND	.23	4.50	14.57	WP7104SEC
		Red	Water Clear	640	2.2	30	2800	5500	34°	754-1251-ND	.59	11.31	36.66	WP7104SEC/J2
		Green	Water Clear	565	2.2	25	70	150	34°	754-1252-ND	.09	1.81	5.88	WP7104SGC
		Red	Water Clear	660	1.85	30	480	600	34°	754-1253-ND	.09	1.81	5.88	WP7104SRC/D
		Red	Water Clear	660	1.85	30	650	800	34°	754-1254-ND	.10	1.89	6.11	WP7104SRC/E
		Red	Diffused	660	1.85	30	110	150	40°	754-1255-ND	.10	1.96	6.35	WP7104SRD/D
		Red	Diffused	660	1.85	30	180	250	40°	754-1256-ND	.11	2.10	6.82	WP7104SRD/E
		Yellow	Water Clear	590	2.0	30	280	700	34°	754-1257-ND	.23	4.50	14.57	WP7104SYC
		Yellow	Water Clear	590	2.3	30	1200	2200	34°	754-1258-ND	.59	11.31	36.66	WP7104SYC/J2
		Green	Water Clear	520	3.2	30	1200	3000	34°	754-1259-ND	.93	17.91	58.05	WP7104VGC/A
		Green	Water Clear	525	3.2	30	3300	9000	34°	754-1260-ND	1.46	28.28	91.65	WP7104VGC/Z
		Yellow	Diffused	590	2.1	30	5†	15†	40°	754-1261-ND	.09	1.81	5.88	WP7104YD
9	5mm	Green	Water Clear	574	2.1	30	380	900	20°	754-1262-ND	.13	2.54	8.23	WP7113CGCK
		Green	Diffused	565	2.2	25	5†	20†	30°	754-1263-ND	.09	1.81	5.88	WP7113GD
		HE Red	Diffused	627	2.0	30	8†	45†	30°	754-1264-ND	.09	1.81	5.88	WP7113ID
		Green	Diffused	565	1.9	25	0.7‡	2‡	30°	754-1265-ND	.09	1.81	5.88	WP7113LGD
		HE Red	Diffused	627	1.7	30	0.7‡	5‡	30°	754-1266-ND	.09	1.81	5.88	WP7113LID
		Red	Diffused	660	1.65	30	8‡	20‡	30°	754-1267-ND	.10	1.89	6.11	WP7113LSRD
		Yellow	Diffused	590	1.85	30	0.7‡	2‡	30°	754-1268-ND	.10	1.89	6.11	WP7113LYD
		Blue	Water Clear	468	3.2	30	280	1000	16°	754-1269-ND	.42	8.05	26.09	WP7113PBC/A
		Blue	Water Clear	458	3.2	30	2800	5500	20°	754-1270-ND	1.27	24.51	79.43	WP7113PBC/Z
		Orange	Water Clear	610	2.0	30	650	2500	20°	754-1271-ND	.23	4.50	14.57	WP7113SEC
		Red	Water Clear	640	2.2	30	6700	12000	20°	754-1272-ND	.59	11.31	36.66	WP7113SEC/J2
		Green	Water Clear	565	2.2	25	70	200	20°	754-1273-ND	.09	1.81	5.88	WP7113SGC

§ Chromaticity Coordinates † Iv (mcd) @ 10mA ‡ Iv (mcd) @ 2mA

(Continued)

0

Dimensions in mm

Fig. 13

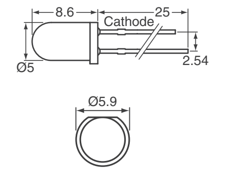

Fig. 14

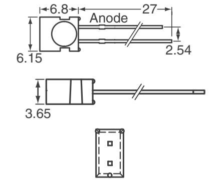

Fig. 15

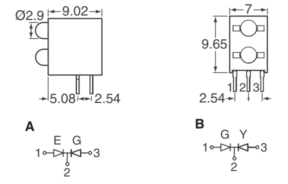

Fig. 16

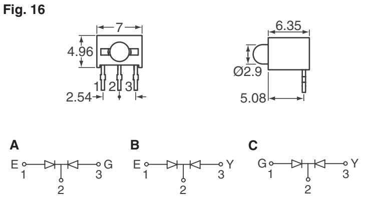

Fig. 17

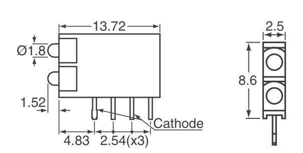

Fig. 18

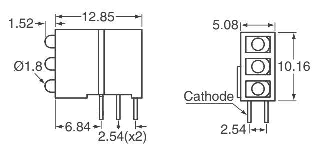

Fig. 19

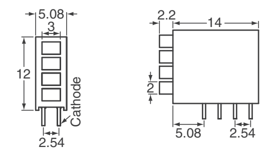

Fig. 20

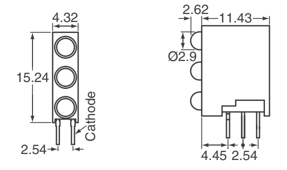

Fig. 21

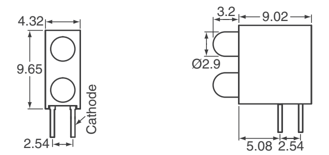

Fig. 22

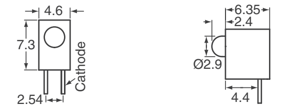

Fig. 23

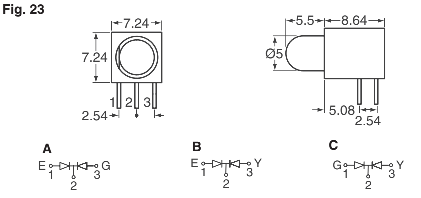

Fig.	Package Type	Emitted Color	Lens	Peak Wavelength (nm)	Forward Voltage (Typ.) (V)	Forward Current (Max.) (mA)	Iv (mcd) @ 20mA		View Angle	Digi-Key Part No.	Pricing			Kingbright Part No.
							(Min.)	(Typ.)			1	25	100	
9	5mm	Red	Water Clear	660	1.85	30	900	1100	20°	754-1274-ND	.09	1.81	5.88	WP7113SRC/DU
		Red	Diffused	660	1.85	30	180	250	30°	754-1275-ND	.09	1.81	5.88	WP7113SRD/D
		Red	Diffused	660	1.85	30	280	400	30°	754-1276-ND	.10	1.89	6.11	WP7113SRD/E
		Red	Diffused	660	1.85	30	480	600	30°	754-1277-ND	.34	6.60	21.39	WP7113SRD/F
		Red/Green	White Diffused	660/565	1.85/2.2	30/25	110/18	200/60	35°	754-1278-ND	.28	5.44	17.63	WP7113SRSGW
		Red	Water Clear	640	1.9	30	1200	1400	20°	754-1279-ND	.23	4.50	14.57	WP7113SURC
		Yellow	Water Clear	590	2.0	30	650	2000	20°	754-1280-ND	.23	4.50	14.57	WP7113SYC
		Yellow	Water Clear	590	2.3	30	2200	3800	20°	754-1281-ND	.59	11.31	36.66	WP7113SYC/J2
		Green	Water Clear	520	3.2	30	1800	5500	20°	754-1282-ND	.93	17.91	58.05	WP7113VGC/A
		Green	Water Clear	525	3.2	30	10000	22000	20°	754-1283-ND	1.46	28.28	91.65	WP7113VGC/Z
		Yellow	Diffused	590	2.1	30	5†	20†	30°	754-1284-ND	.09	1.81	5.88	WP7113YD
		Green	Water Clear	515	3.3	25	3800	6500	20°	754-1285-ND	.59	11.31	36.66	WP7113ZGC
10	3mm	Green	Diffused	565	2.2	25	1†	4†	100°	754-1304-ND	.12	2.39	7.76	WP424GDT
		HE Red	Diffused	627	2.0	30	3†	5†	100°	754-1305-ND	.12	2.39	7.76	WP424IDT
		Yellow	Diffused	590	2.1	30	1†	4†	100°	754-1306-ND	.12	2.39	7.76	WP424YDT
11	5mm	Green	Diffused	565	2.2	25	1†	4†	100°	754-1307-ND	.12	2.39	7.76	WP483GDT
		HE Red	Diffused	627	2.0	30	1.8†	5†	100°	754-1308-ND	.12	2.39	7.76	WP483IDT
		Yellow	Diffused	590	2.1	30	0.7†	3†	100°	754-1309-ND	.12	2.39	7.76	WP483YDT
12	3mm	Cyan	Water Clear	0.18/0.39§	3.3	30	480	1600	34°	754-1310-ND	1.34	25.96	84.13	WP7104PR51C/A
13	5mm	Cyan	Water Clear	0.18/0.39§	3.3	30	900	2200	20°	754-1311-ND	1.34	25.96	84.13	WP7113PR51C/A
14	3.65 x 6.15mm	Green	Diffused	565	2.2	25	1†	4†	100°	754-1195-ND	.27	5.22	16.92	WP1043GD
		HE Red	Diffused	627	2.0	30	1.8†	10†	100°	754-1196-ND	.27	5.22	16.92	WP1043ID
		Green	Diffused	565	2.2	25	4	10	100°	754-1197-ND	.32	6.16	19.98	WP1043SGD
		Red	Diffused	660	1.85	30	36	90	100°	754-1198-ND	.34	6.60	21.39	WP1043SRD
		Yellow	Diffused	590	2.1	30	1†	4†	100°	754-1199-ND	.27	5.22	16.92	WP1043YD
Circuit Board Indicator														
15A	3mm	HE Red/Grn	White Diffused	627/565	2/2.2	30/25	7/7	30/25	60°	754-1205-ND	.73	14.14	45.83	WP130WCP/2EGW
15B		Grn/Yellow	White Diffused	565/590	2.2/2.1	25/30	7/7	25/20	60°	754-1206-ND	.73	14.14	45.83	WP130WCP/2GYW
16A	3mm	HE Red/Grn	White Diffused	627/565	2/2.2	30/25	7/7	30/25	60°	754-1207-ND	.34	6.60	21.39	WP130WDT/EGW
16B		HE Red/Ylw	White Diffused	627/590	2/2.1	30	7/7	30/20	60°	754-1208-ND	.34	6.60	21.39	WP130WDT/EYW
16C		Grn/Yellow	White Diffused	565/590	2.2/2.1	25/30	7/7	25/20	60°	754-1209-ND	.34	6.60	21.39	WP130WDT/GYW
17	1.8mm	Green	Diffused	565	2.2	25	5†	10†	70°	754-1224-ND	.66	12.76	41.36	WP4060VH/2GD
		HE Red	Diffused	627	2.0	30	8†	15†	70°	754-1225-ND	.66	12.76	41.36	WP4060VH/2ID
		Red	Diffused	660	1.85	30	70	200	70°	754-1226-ND	.66	12.76	41.36	WP4060VH/2SRD
		Yellow	Diffused	590	2.1	30	1.8†	5†	70°	754-1227-ND	.66	12.76	41.36	WP4060VH/2YD
18	1.8mm	Green	Diffused	565	2.2	25	5†	10†	70°	754-1228-ND	.98	18.85	61.10	WP4060XH/3GD
		HE Red	Diffused	627	2.0	30	8†	15†	70°	754-1229-ND	.98	18.85	61.10	WP4060XH/3ID
		Red	Diffused	660	1.85	30	70	200	70°	754-1230-ND	.98	18.85	61.10	WP4060XH/3SRD
		Yellow	Diffused	590	2.1	30	1.8†	5†	70°	754-1231-ND	.98	18.85	61.10	WP4060XH/3YD
19	2 x 3mm	Green	Diffused	565	2.2	25	1.8†	6†	100°	754-1286-ND	1.17	22.62	73.32	WP914CK/4GDT
		HE Red	Diffused	627	2.0	30	1.8†	8†	100°	754-1287-ND	1.17	22.62	73.32	WP914CK/4IDT
		Yellow	Diffused	590	2.1	30	1†	4†	100°	754-1288-ND	1.17	22.62	73.32	WP914CK/4YDT
20	3mm	Green	Diffused	565	2.2	25	8†	20†	40°	754-1289-ND	.71	13.70	44.42	WP934SA/3GD
		HE Red	Diffused	627	2.0	30	8†	20†	40°	754-1290-ND	.71	13.70	44.42	WP934SA/3ID
		Red	Diffused	660	1.85	30	110	300	40°	754-1291-ND	.76	14.65	47.47	WP934SA/3SRD
		Yellow	Diffused	590	2.1	30	5†	15†	40°	754-1292-ND	.71	13.70	44.42	WP934SA/3YD
21	3mm	Green	Diffused	565	2.2	25	8†	20†	40°	754-1293-ND	.33	6.38	20.68	WP934EB/2GD
		HE Red	Diffused	627	2.0	30	8†	20†	40°	754-1294-ND	.33	6.38	20.68	WP934EB/2ID
		Red	Diffused	660	1.85	30	110	300	40°	754-1295-ND	.34	6.60	21.39	WP934EB/2SRD
		Yellow	Diffused	590	2.1	30	5†	15†	40°	754-1296-ND	.34	6.60	21.39	WP934EB/2YD
22	3mm	Green	Diffused	565	2.2	25	8†	20†	40°	754-1297-ND	.21	3.99	12.93	WP934CB/GD
		HE Red	Diffused	627	2.0	30	8†	20†	40°	754-1298-ND	.21	3.99	12.93	WP934CB/ID
		Red	Diffused	660	1.85	30	110	300	40°	754-1299-ND	.22	4.28	13.87	WP934CB/SRD
		Yellow	Diffused	590	2.1	30	5†	15†	40°	754-1300-ND	.21	3.99	12.93	WP934CB/YD
23A	5mm	HE Red/Grn	White Diffused	627/565	2/2.2	30/25	18/18	60/50	60°	754-1301-ND	.33	6.38	20.68	WP59BL/EGW
23B		HE Red/Ylw	White Diffused	627/590	2/2.1	30	18/18	60/40	60°	754-1302-ND	.33	6.38	20.68	WP59BL/EYW
23C		Grn/Yellow	White Diffused	565/590	2.2/2.1	25/30	18/18	50/40	60°	754-1303-ND	.33	6.38	20.68	WP59BL/GYW

§ Chromaticity Coordinates † Iv (mcd) @ 10mA ‡ Iv (mcd) @ 2mA

Dimensions in mm

Fig. 1

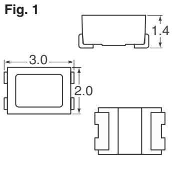

Fig. 2

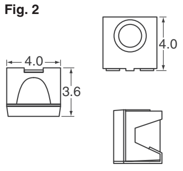

Fig. 3

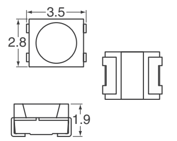

Fig. 4

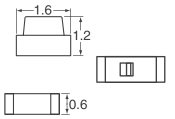

Fig. 5

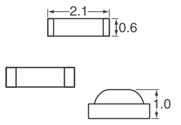

Fig. 6

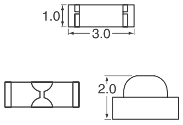

Fig. 7

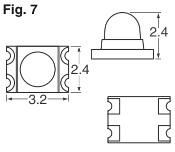

Fig. 8

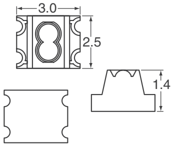

Fig. 9

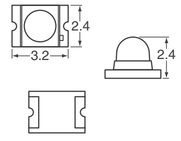

Fig. 10

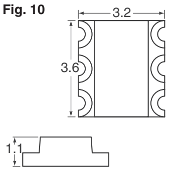

Fig. 11

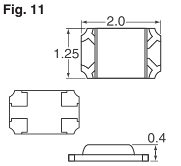

Fig. 12

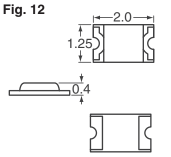

Fig. 13

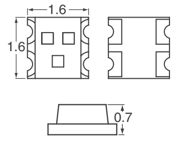

Fig. 14

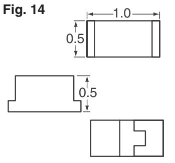

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv (mcd) @ 20mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Kingbright Part No.
										1	10	100		Qty.	Pricing	
1	3 x 2mm	Green	Water Clear	574	2.1	30	60	90°	754-1000-1-ND	.31	2.29	16.78	754-1000-2-ND	2,000	92.00/M	AA3020ACGCK
		HE Red	Water Clear	627	2.0	30	20	90°	754-1001-1-ND	.27	1.99	14.58	754-1001-2-ND	2,000	80.00/M	AA3020AEC
		Blue	Water Clear	468	3.2	30	60	90°	754-1002-1-ND	.59	4.39	32.18	754-1002-2-ND	2,000	176.00/M	AA3020APBC/A
		Super Orange	Water Clear	610	2.1	30	150	90°	754-1003-1-ND	.30	2.21	16.23	754-1003-2-ND	2,000	89.00/M	AA3020ASECK
		Super Green	Water Clear	565	2.2	25	30	90°	754-1004-1-ND	.27	1.99	14.58	754-1004-2-ND	2,000	80.00/M	AA3020ASGC
		Super Red	Water Clear	660	1.85	30	120	90°	754-1005-1-ND	.28	2.06	15.13	754-1005-2-ND	2,000	83.00/M	AA3020ASRC
		Hyper Red	Water Clear	650	1.95	30	200	90°	754-1006-1-ND	.30	2.21	16.23	754-1006-2-ND	2,000	89.00/M	AA3020ASURCK
		Super Yellow	Water Clear	590	2.0	30	100	90°	754-1007-1-ND	.30	2.21	16.23	754-1007-2-ND	2,000	89.00/M	AA3020ASYCK
		Yellow	Water Clear	590	2.1	30	15	90°	754-1008-1-ND	.27	1.99	14.58	754-1008-2-ND	2,000	80.00/M	AA3020AYC
2	4 x 4mm	Green	Water Clear	574	2.1	30	70	90°	754-1017-1-ND	.43	3.19	23.38	754-1017-2-ND	500	76.50	AA4040CGCK
		Blue	Water Clear	468	3.3	30	150	90°	754-1018-1-ND	.98	7.31	53.63	754-1018-2-ND	500	175.50	AA4040QBC/D
		Super Green	Water Clear	565	2.2	25	25	90°	754-1019-1-ND	.39	2.93	21.45	754-1019-2-ND	500	70.00	AA4040SGC
		Super Red	Water Clear	660	1.85	30	120	90°	754-1020-1-ND	.39	2.93	21.45	754-1020-2-ND	500	70.00	AA4040SRC
		Hyper Red	Water Clear	650	1.95	30	180	90°	754-1021-1-ND	.46	3.41	25.03	754-1021-2-ND	500	82.00	AA4040SURCK
		Super Yellow	Water Clear	590	2.0	30	120	90°	754-1022-1-ND	.46	3.41	25.03	754-1022-2-ND	500	82.00	AA4040SYCK
3	3.5 x 2.8mm	Green	Water Clear	574	2.1	30	60	120°	754-1009-1-ND	.31	2.29	16.78	754-1009-2-ND	1,500	92.00/M	AA3528ACGCK
		HE Red	Water Clear	627	2.0	30	30	120°	754-1010-1-ND	.26	1.91	14.03	754-1010-2-ND	1,500	77.00/M	AA3528AEC
		Blue	Water Clear	468	3.2	30	60	120°	754-1011-1-ND	.59	4.39	32.18	754-1011-2-ND	1,500	176.00/M	AA3528APBC/A
		Super Green	Water Clear	565	2.2	25	25	120°	754-1012-1-ND	.26	1.91	14.03	754-1012-2-ND	1,500	77.00/M	AA3528ASGC
		Super Red	Water Clear	660	1.85	30	150	120°	754-1013-1-ND	.26	1.91	14.03	754-1013-2-ND	1,500	77.00/M	AA3528ASRC
		Hyper Red	Water Clear	650	1.95	30	200	120°	754-1014-1-ND	.30	2.21	16.23	754-1014-2-ND	1,500	89.00/M	AA3528ASURCK
		Super Yellow	Water Clear	590	2.0	30	150	120°	754-1015-1-ND	.30	2.21	16.23	754-1015-2-ND	1,500	89.00/M	AA3528ASYCK
		Yellow	Water Clear	590	2.1	30	15	120°	754-1016-1-ND	.26	1.91	14.03	754-1016-2-ND	1,500	77.00/M	AA3528AYC
4	1.6 x 0.6mm	Green	Water Clear	574	2.1	30	60	110°	754-1051-1-ND	.26	1.95	14.30	754-1051-2-ND	2,000	78.00/M	APA1606CGCK
		Blue	Water Clear	468	3.2	30	60	110°	754-1052-1-ND	.56	4.16	30.53	754-1052-2-ND	2,000	167.00/M	APA1606PBC/A
		Super Orange	Water Clear	610	2.1	30	250	110°	754-1053-1-ND	.24	1.76	12.93	754-1053-2-ND	2,000	71.00/M	APA1606SECK
		Hyper Red	Water Clear	650	1.95	30	250	110°	754-1054-1-ND	.24	1.76	12.93	754-1054-2-ND	2,000	71.00/M	APA1606SURCK
		Super Yellow	Water Clear	590	2.0	30	150	110°	754-1055-1-ND	.24	1.76	12.93	754-1055-2-ND	2,000	71.00/M	APA1606SYCK
		Green	Water Clear	515	3.3	25	250	110°	754-1056-1-ND	.78	5.85	42.90	754-1056-2-ND	2,000	234.00/M	APA1606ZGC
5	2.1 x 0.6mm	Green	Water Clear	574	2.1	30	60	120°	754-1057-1-ND	.26	1.95	14.30	754-1057-2-ND	2,000	78.00/M	APA2106CGCK
		Blue	Water Clear	468	3.2	30	60	120°	754-1058-1-ND	.56	4.16	30.53	754-1058-2-ND	2,000	167.00/M	APA2106PBC/A
		Super Orange	Water Clear	610	2.1	30	250	120°	754-1059-1-ND	.24	1.76	12.93	754-1059-2-ND	2,000	71.00/M	APA2106SECK
		Hyper Red	Water Clear	650	1.95	30	250	120°	754-1060-1-ND	.24	1.76	12.93	754-1060-2-ND	2,000	71.00/M	APA2106SURCK
		Super Yellow	Water Clear	590	2.0	30	150	120°	754-1061-1-ND	.24	1.76	12.93	754-1061-2-ND	2,000	71.00/M	APA2106SYCK
		Green	Water Clear	515	3.3	25	250	120°	754-1062-1-ND	.78	5.85	42.90	754-1062-2-ND	2,000	234.00/M	APA2106ZGC
6	3.0 x 1.0mm	Green	Water Clear	574	2.1	30	60	120°	754-1063-1-ND	.33	2.44	17.88	754-1063-2-ND	2,000	98.00/M	APA3010CGCK
		HE Red	Water Clear	627	2.0	30	15	120°	754-1064-1-ND	.23	1.73	12.65	754-1064-2-ND	2,000	69.00/M	APA3010EC
		Mega Green	Water Clear	574	2.1	30	80	120°	754-1066-1-ND	.59	4.39	32.18	754-1066-2-ND	2,000	176.00/M	APA3010MGC
		Blue	Water Clear	468	3.2	30	60	120°	754-1068-1-ND	.56	4.16	30.53	754-1068-2-ND	2,000	167.00/M	APA3010PBC/A
		Super Orange	Water Clear	610	2.1	30	250	120°	754-1069-1-ND	.24	1.76	12.93	754-1069-2-ND	2,000	71.00/M	APA3010SECK
		Super Green	Water Clear	565	2.2	25	15	120°	754-1071-1-ND	.23	1.73	12.65	754-1071-2-ND	2,000	69.00/M	APA3010SGC
		Super Red	Water Clear	660	1.85	30	100	120°	754-1072-1-ND	.23	1.73	12.65	754-1072-2-ND	2,000	69.00/M	APA3010SRCPRV
		Super Yellow	Water Clear	590	2.0	30	150	120°	754-1073-1-ND	.24	1.76	12.93	754-1073-2-ND	2,000	71.00/M	APA3010SYCK
		Yellow	Water Clear	590	2.1	30	7	120°	754-1074-1-ND	.23	1.73	12.65	754-1074-2-ND	2,000	69.00/M	APA3010YC
		Green	Water Clear	515	3.3	25	250	120°	754-1075-1-ND	.78	5.85	42.90	754-1075-2-ND	2,000	234.00/M	APA3010ZGC
7	3.2 x 2.4mm	HE Red/Green	Water Clear	627/565	2/2.2	30/25	60/40	20°	754-1076-1-ND	.36	2.70	19.80	754-1076-2-ND	1,500	108.00/M	APBD3224ESGC-F01
		Yellow/Green	Water Clear	590/574	2/2.1	30/30	500/300	20°	754-1077-1-ND	.39	2.93	21.45	754-1077-2-ND	1,500	117.00/M	APBD3224SYKCGKC-F01
8	3.0 x 2.5mm	HE Red/Green	Water Clear	627/565	2/2.2	30/25	20/20	100°	754-1078-1-ND	.36	2.70	19.80	754-1078-2-ND	2,000	108.00/M	APBL3025ESGC-F01
		HE Red/Yellow	Water Clear	627/590	2/2.1	30/30	20/15	100°	754-1079-1-ND	.36	2.70	19.80	754-1079-2-ND	2,000	108.00/M	APBL3025EYC-F01
		Yellow/Green	Water Clear	590/565	2.1/2.2	30/25	15/20	100°	754-1080-1-ND	.36	2.70	19.80	754-1080-2-ND	2,000	108.00/M	APBL3025YSGC-F01
9	3.2 x 2.4mm	Green	Water Clear	574	2.1	30	550	20°	754-1081-1-ND	.30	2.21	16.23	754-1081-2-ND	1,500	89.00/M	APD3224CGCK-F01
		HE Red	Water Clear	627	2.0	30	70	20°	754-1082-1-ND	.22	1.61	11.83	754-1082-2-ND	1,500	65.00/M	APD3224EC-F01
		Blue	Water Clear	468	3.2	30	380	20°	754-1083-1-ND	.62	4.65	34.10	754-1083-2-ND	1,500	186.00/M	APD3224PBC/A-F01
		Super Orange	Water Clear	610	2.1	30	1300	20°	754-1084-1-ND	.27	1.99	14.58	754-1084-2-ND	1,500	80.00/M	APD3224SECK-F01
		Super Green	Water Clear	565	2.2	25	70	20°	754-1085-1-ND	.22	1.61	11.83	754-1085-2-ND	1,500	65.00/M	APD3224SGC-F01
		Hyper Red	Water Clear	650	1.95	30	1000	20°	754-1086-1-ND	.27	1.99	14.58	754-1086-2-ND	1,500	80.00/M	APD3224SURCK-F01
		Super Yellow	Water Clear	590	2.0	30	600	20°	754-1087-1-ND	.27	1.99	14.58	754-1087-2-ND	1,500	80.00/M	APD3224SYCK-F01
		Yellow	Water Clear	590	2.1	30	40	20°	754-1088-1-ND	.22	1.61	11.83	754-1088-2-ND	1,500	65.00/M	APD3224YC-F01
		Green	Water Clear	515	3.3	25	2400	20°	754-1089-1-ND	.78	5.85	42.90	754-1089-2-ND	1,500	234.00/M	APD3224ZGC-F01
10	3.2 x 3.6mm	Red/Green/Blue	Water Clear	650/520/468	1.95/3.2/3.2	30/30/30	150/150/60	120°	754-1090-1-ND	3.12	23.40	171.60	754-1090-2-ND	1,000	936.00	APF3236SURKVGAPBA
11	2.0 x 1.25mm	Green/Yellow	Water Clear	574/590	2.1/2	30/30	80/150	120°	754-1091-1-ND	.39	2.93	21.45	754-1091-2-ND	2,000	117.00/M	APHBM2012CGKSYKC
		Blue/Red	Water Clear	468/650	3.2/1.95	30/30	50/200	120°	754-1092-1-ND	1.04	7.80	57.20	754-1092-2-ND	2,000	312.00/M	APHBM2012PBASURKC
		Red/Green	Water Clear	650/574	1.95/2.1	30/30	200/80	120°	754-1093-1-ND	.39	2.93	21.45	754-1093-2-ND	2,000	117.00/M	APHBM2012SURKCGKC
12	2.0 x 1.25mm	Green	Water Clear	574	2.1	30	40	110°	754-1094-1-ND	.20	1.46	10.73	754-1094-2-ND	2,000	59.00/M	APHCM2012CGCK-F01
		Blue	Water Clear	468	3.2	30	60	110°	754-1095-1-ND	.56	4.16	30.53	754-1095-2-ND	2,000	167.00/M	APHCM2012PBC/A-F01
		Super Orange	Water Clear	610	2.1	30	160	110°	754-1096-1-ND	.18	1.31	9.63	754-1096-2-ND	2,000	53.00/M	APHCM2012SECK-F01
		Hyper Red	Water Clear	650	1.95	30	150	110°	754-1097-1-ND	.18	1.31	9.63	754-1097-2-ND	2,000	53.00/M	APHCM2012SURCK-F01
		Super Yellow	Water Clear	590	2.0	30	120	110°	754-1098-1-ND	.18	1.31	9.63	754-1098-2-ND	2,000	53.00/M	APHCM2012SYCK-F01
		Green	Water Clear	515	3.3	25	300	110°	754-1099-1-ND	.72	5.36	39.33	754-1099-2-ND	2,000	215.00/M	APHCM2012ZGC-F01
13	1.6 x 1.6mm	Blue/Red/Green	Water Clear	630/520/468	2.0/3.2/3.2	30/30/30	400/180/40	120°	754-1318-1-ND	3.58	25.03	196.63	754-1318-2-ND	2,000	1073.00/M	APTF1616SEEVGAPBAC
14	1.0 x 0.5mm	Green	Water Clear	574	2.1	30	40	120°	754-1101-1-ND	.24	1.76	12.93	754-1101-2-ND	2,000	71.00/M	APHHS1005CGCK
		Blue	Water Clear	468	3.2	30	60	120°	754-1102-1-ND	.56	4.16	30.53	754-1102-2-ND	2,000	167.00/M	APHHS1005PBC/A
		Super Orange	Water Clear	610	2.1	30	160	120°	754-1103-1-ND	.30	2.21	16.23	754-1103-2-ND	2,000	89.00/M	APHHS1005SECK
		Hyper Red	Water Clear	650	1.95	30	150	120°	754-1104-1-ND	.30	2.21	16.23	754-1104-2-ND	2,000	89.00/M	APHHS1005SURCK
		Super Yellow	Water Clear	590	2.0	30	120	120°	754-1105-1-ND	.26	1.95	14.30	754-1105-2-ND	2,000	78.00/M	APHHS1005SYCK

§ Chromaticity Coordinates ‡ Iv (mcd) @ 10mA † Iv (cd) @ 350mA Δ Iv (cd) @ 700mA

(Continued)

Dimensions in mm

Fig. 15

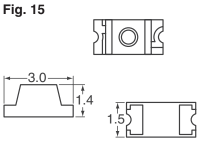

Fig. 16

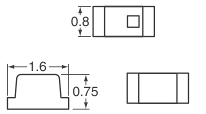

Fig. 17

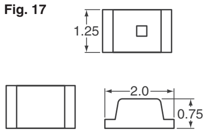

Fig. 18

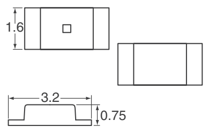

Fig. 19

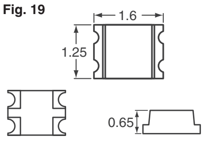

Fig. 20

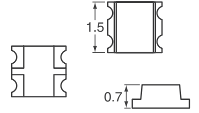

Fig. 21

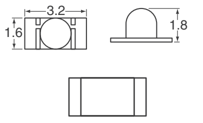

Fig. 22

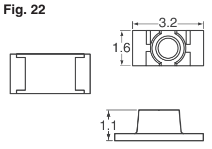

Fig. 23

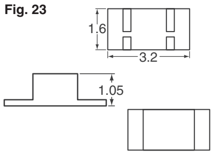

Fig. 24

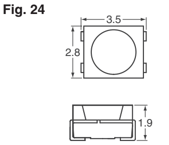

Fig. 25

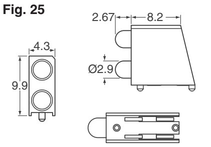

Fig. 26

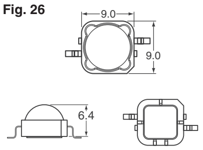

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv (mcd) @ 20mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Kingbright Part No.
										1	10	100		Qty.	Pricing	
15	3.0 x 1.5mm	Green	Water Clear	574	2.1	30	90	70°	754-1106-1-ND	.22	1.61	11.83	754-1106-2-ND	2,000	65.00/M	APL3015CGCK-F01
		HE Red	Water Clear	627	2.0	30	20	70°	754-1107-1-ND	.17	1.24	9.08	754-1107-2-ND	2,000	50.00/M	APL3015EC-F01
		Mega Green	Water Clear	574	2.1	30	140	70°	754-1108-1-ND	.52	3.90	28.60	754-1108-2-ND	2,000	156.00/M	APL3015MGC-F01
		Blue	Water Clear	468	3.2	30	120	70°	754-1109-1-ND	.52	3.90	28.60	754-1109-2-ND	2,000	156.00/M	APL3015PBC/A-F01
		Super Orange	Water Clear	610	2.1	30	300	70°	754-1110-1-ND	.18	1.31	9.63	754-1110-2-ND	2,000	53.00/M	APL3015SECK-F01
		Super Green	Water Clear	565	2.2	25	20	70°	754-1111-1-ND	.15	1.13	8.25	754-1111-2-ND	2,000	45.00/M	APL3015SGC-F01
		Super Red	Water Clear	660	1.85	30	150	70°	754-1112-1-ND	.18	1.31	9.63	754-1112-2-ND	2,000	53.00/M	APL3015SRCPRV-F01
		Hyper Red	Water Clear	650	1.95	30	240	70°	754-1113-1-ND	.18	1.31	9.63	754-1113-2-ND	2,000	53.00/M	APL3015SURCK-F01
		Super Yellow	Water Clear	590	2.0	30	150	70°	754-1114-1-ND	.18	1.31	9.63	754-1114-2-ND	2,000	53.00/M	APL3015SYCK-F01
		Green	Water Clear	515	3.3	25	850	70°	754-1115-1-ND	.72	5.36	39.33	754-1115-2-ND	2,000	215.00/M	APL3015ZGC-F01
16	1.6 x 0.8mm	Green	Water Clear	574	2.1	30	40	120°	754-1116-1-ND	.17	1.28	9.35	754-1116-2-ND	2,000	51.00/M	APT1608CGCK
		HE Red	Water Clear	627	2.0	30	12	120°	754-1117-1-ND	.13	.94	6.88	754-1117-2-ND	2,000	38.00/M	APT1608EC
		Mega Green	Water Clear	574	2.1	30	70	120°	754-1118-1-ND	.56	4.16	30.53	754-1118-2-ND	2,000	167.00/M	APT1608MGC
		Blue	Water Clear	468	3.2	30	60	120°	754-1119-1-ND	.52	3.90	28.60	754-1119-2-ND	2,000	156.00/M	APT1608PBC/A
		Super Orange	Water Clear	610	2.1	30	160	120°	754-1120-1-ND	.16	1.16	8.53	754-1120-2-ND	2,000	47.00/M	APT1608SECK
		Super Green	Water Clear	565	2.2	25	15	120°	754-1121-1-ND	.13	.94	6.88	754-1121-2-ND	2,000	38.00/M	APT1608SGC
		Super Red	Water Clear	660	1.85	30	100	120°	754-1122-1-ND	.13	.98	7.15	754-1122-2-ND	2,000	39.00/M	APT1608SRCPRV
		Hyper Red	Water Clear	650	1.95	30	150	120°	754-1123-1-ND	.16	1.16	8.53	754-1123-2-ND	2,000	47.00/M	APT1608SURCK
		Super Yellow	Water Clear	590	2.0	30	120	120°	754-1124-1-ND	.16	1.16	8.53	754-1124-2-ND	2,000	47.00/M	APT1608SYCK
		Yellow	Water Clear	590	2.1	30	8	120°	754-1125-1-ND	.13	.94	6.88	754-1125-2-ND	2,000	38.00/M	APT1608YC
		Green	Water Clear	515	3.3	25	300	120°	754-1126-1-ND	.72	5.36	39.33	754-1126-2-ND	2,000	215.00/M	APT1608ZGC
17	2.0 x 1.25mm	Green	Water Clear	574	2.1	30	40	120°	754-1127-1-ND	.17	1.24	9.08	754-1127-2-ND	2,000	50.00/M	APT2012CGCK
		HE Red	Water Clear	627	2.0	30	12	120°	754-1128-1-ND	.13	.94	6.88	754-1128-2-ND	2,000	38.00/M	APT2012EC
		Blue	Water Clear	468	3.2	30	60	120°	754-1129-1-ND	.52	3.90	28.60	754-1129-2-ND	2,000	156.00/M	APT2012PBC/A
		Super Orange	Water Clear	610	2.1	30	160	120°	754-1130-1-ND	.17	1.24	9.08	754-1130-2-ND	2,000	50.00/M	APT2012SECK
		Super Green	Water Clear	565	2.2	25	15	120°	754-1131-1-ND	.13	.94	6.88	754-1131-2-ND	2,000	38.00/M	APT2012SGC
		Super Red	Water Clear	660	1.85	30	100	120°	754-1132-1-ND	.14	1.01	7.43	754-1132-2-ND	2,000	41.00/M	APT2012SRCPRV
		Hyper Red	Water Clear	650	1.95	30	150	120°	754-1133-1-ND	.17	1.24	9.08	754-1133-2-ND	2,000	50.00/M	APT2012SURCK
		Super Yellow	Water Clear	590	2.0	30	120	120°	754-1134-1-ND	.17	1.24	9.08	754-1134-2-ND	2,000	50.00/M	APT2012SYCK
		Yellow	Water Clear	590	2.1	30	8	120°	754-1135-1-ND	.13	.98	7.15	754-1135-2-ND	2,000	39.00/M	APT2012YC
18	3.2 x 1.6mm	Green	Water Clear	574	2.1	30	40	120°	754-1136-1-ND	.20	1.50	11.00	754-1136-2-ND	2,000	60.00/M	APT3216CGCK
		HE Red	Water Clear	627	2.0	30	12	120°	754-1137-1-ND	.17	1.24	9.08	754-1137-2-ND	2,000	50.00/M	APT3216EC
		Mega Green	Water Clear	574	2.1	30	70	120°	754-1138-1-ND	.65	4.88	35.75	754-1138-2-ND	2,000	195.00/M	APT3216MGC
		Blue	Water Clear	468	3.2	30	60	120°	754-1139-1-ND	.52	3.90	28.60	754-1139-2-ND	2,000	156.00/M	APT3216PBC/A
		Super Orange	Water Clear	610	2.1	30	160	120°	754-1140-1-ND	.18	1.31	9.63	754-1140-2-ND	2,000	53.00/M	APT3216SECK
		Super Green	Water Clear	565	2.2	25	15	120°	754-1141-1-ND	.17	1.24	9.08	754-1141-2-ND	2,000	50.00/M	APT3216SGC
		Super Red	Water Clear	660	1.85	30	80	120°	754-1142-1-ND	.17	1.24	9.08	754-1142-2-ND	2,000	50.00/M	APT3216SRCPRV
		Hyper Red	Water Clear	650	1.95	30	150	120°	754-1143-1-ND	.18	1.31	9.63	754-1143-2-ND	2,000	53.00/M	APT3216SURCK
		Super Yellow	Water Clear	590	2.0	30	120	120°	754-1144-1-ND	.18	1.31	9.63	754-1144-2-ND	2,000	53.00/M	APT3216SYCK
		Yellow	Water Clear	590	2.1	30	8	120°	754-1145-1-ND	.17	1.24	9.08	754-1145-2-ND	2,000	50.00/M	APT3216YC
19	1.6 x 1.25mm	HE Red/Green	Water Clear	627/565	2/2.2	30/25	12/12	120°	754-1146-1-ND	.30	2.21	16.23	754-1146-2-ND	2,000	89.00/M	APTB1612ESGC-F01
		Yellow/Green	Water Clear	590/574	2/2.1	30/30	100/50	120°	754-1147-1-ND	.33	2.44	17.88	754-1147-2-ND	2,000	98.00/M	APTB1612SYKCGKC-F01
		Yellow/Green	Water Clear	590/565	2.1/2.2	30/25	8/12	120°	754-1148-1-ND	.30	2.21	16.23	754-1148-2-ND	2,000	89.00/M	APTB1612YSGC-F01
20	1.6 x 1.5mm	HE Red/Green	Water Clear	627/565	2/2.2	30/25	12/12	120°	754-1149-1-ND	.30	2.21	16.23	754-1149-2-ND	2,000	89.00/M	APTB1615ESGC-F01
		Yellow/Green	Water Clear	590/574	2/2.1	30/30	100/50	120°	754-1150-1-ND	.33	2.44	17.88	754-1150-2-ND	2,000	98.00/M	APTB1615SYKCGKC-F01
		Yellow/Green	Water Clear	590/565	2.1/2.2	30/25	8/12	120°	754-1151-1-ND	.30	2.21	16.23	754-1151-2-ND	2,000	89.00/M	APTB1615YSGC-F01
21	3.2 x 1.6mm	Green	Water Clear	574	2.1	30	200	50°	754-1152-1-ND	.30	2.21	16.23	754-1152-2-ND	2,000	89.00/M	APTD3216CGCK
		HE Red	Water Clear	627	2.0	30	50	40°	754-1153-1-ND	.23	1.73	12.65	754-1153-2-ND	2,000	69.00/M	APTD3216EC
		Mega Green	Water Clear	574	2.1	30	350	50°	754-1154-1-ND	.78	5.85	42.90	754-1154-2-ND	2,000	234.00/M	APTD3216MGC
		Blue	Water Clear	468	3.2	30	220	50°	754-1155-1-ND	.56	4.16	30.53	754-1155-2-ND	2,000	167.00/M	APTD3216PBC/A
		Super Orange	Water Clear	610	2.1	30	700	50°	754-1156-1-ND	.28	2.06	15.13	754-1156-2-ND	2,000	83.00/M	APTD3216SECK
		Super Green	Water Clear	565	2.2	25	50	40°	754-1157-1-ND	.23	1.73	12.65	754-1157-2-ND	2,000	69.00/M	APTD3216SGC
		Super Red	Water Clear	660	1.85	30	300	50°	754-1158-1-ND	.23	1.73	12.65	754-1158-2-ND	2,000	69.00/M	APTD3216SRCPRV
		Hyper Red	Water Clear	650	1.95	30	500	50°	754-1159-1-ND	.28	2.06	15.13	754-1159-2-ND	2,000	83.00/M	APTD3216SURCK
		Super Yellow	Water Clear	590	2.1	30	250	50°	754-1160-1-ND	.28	2.06	15.13	754-1160-2-ND	2,000	83.00/M	APTD3216SYCK
		Yellow	Water Clear	590	2.1	30	30	40°	754-1161-1-ND	.23	1.73	12.65	754-1161-2-ND	2,000	69.00/M	APTD3216YC
22	3.2 x 1.6mm	Green	Water Clear	574	2.1	30	200	70°	754-1162-1-ND	.21	1.58	11.55	754-1162-2-ND	2,000	63.00/M	APTL3216CGCK
		Blue	Water Clear	468	3.2	30	200	70°	754-1163-1-ND	.52	3.90	28.60	754-1163-2-ND	2,000	156.00/M	APTL3216PBC/A
		Super Orange	Water Clear	610	2.1	30	550	70°	754-1164-1-ND	.19	1.43	10.45	754-1164-2-ND	2,000	57.00/M	APTL3216SECK
		Hyper Red	Water Clear	650	1.95	30	550	70°	754-1165-1-ND	.19	1.43	10.45	754-1165-2-ND	2,000	57.00/M	APTL3216SURCK
		Super Yellow	Water Clear	590	2.0	30	350	70°	754-1166-1-ND	.19	1.43	10.45	754-1166-2-ND	2,000	57.00/M	APTL3216SYCK
23	3.2 x 1.6mm	Green	Water Clear	574	2.1	30	40	120°	754-1167-1-ND	.21	1.58	11.55	754-1167-2-ND	2,000	63.00/M	APTR3216CGCK
		HE Red	Water Clear	627	2.0	30	12	120°	754-1168-1-ND	.17	1.24	9.08	754-1168-2-ND	2,000	50.00/M	APTR3216EC
		Blue	Water Clear	468	3.2	30	60	120°	754-1169-1-ND	.56	4.16	30.53	754-1169-2-ND	2,000	167.00/M	APTR3216PBC/A
		Super Orange	Water Clear	610	2.1	30	160	120°	754-1170-1-ND	.18	1.31	9.63	754-1170-2-ND	2,000	53.00/M	APTR3216SECK
		Super Green	Water Clear	565	2.2	25	15	120°	754-1171-1-ND	.16	1.16	8.53	754-1171-2-ND	2,000	47.00/M	APTR3216SGC
		Super Red	Water Clear	660	1.85	30	80	120°	754-1172-1-ND	.18	1.31	9.63	754-1172-2-ND	2,000	53.00/M	APTR3216SRCPRV
		Hyper Red	Water Clear	650	1.95	30	150	120°	754-1173-1-ND	.18	1.31	9.63	754-1173-2-ND	2,000	53.00/M	APTR3216SURCK
		Yellow	Water Clear	590	2.1	30	8	120°	754-1175-1-ND	.17	1.24	9.08	754-1175-2-ND	2,000	50.00/M	APTR3216YC
		Super Yellow	Water Clear	590	2.0	30	120	120°	754-1174-1-ND	.18	1.31	9.63	754-1174-2-ND	2,000	53.00/M	APTR3216SYCK
24	3.5 x 2.8mm	Pink	Water Clear	0.3/0.2§	3.3	30	290	120°	754-1312-1-ND	1.43	10.01	78.65	754-1312-2-ND	1,500	429.00/M	AA3528APR2C/A
		Purple	Water Clear	0.2/0.1§	3.3	30	160	120°	754-1313-1-ND	1.43	10.01	78.65	754-1313-2-ND	1,500	429.00/M	AA3528APR7C/A
									Circuit Board Indicator							
25	3mm	Green	Diffused	565	2.2	25	20‡	40°	754-1236-1-ND	.78	5.85	42.90	754-1236-2-ND	250	78.00	WP7104ALUP/2GD-0L
		HE Red	Diffused	627	2.0	30	20‡	40°	754-1237-1-ND	.78	5.85	42.90	754-1237-2-ND	250	78.00	WP7104ALUP/2ID-0L
		Super Red	Diffused	660	1.85	30	300	40°	754-1238-1-ND	.78	5.85	42.90	754-1238-2-ND	250	78.00	WP7104ALUP/2SRD-0L
		Yellow	Diffused	590	2.1	30	15‡	40°	754-1239-1-ND	.78	5.85	42.90	754-1239-2-ND	250	78.00	WP7104ALUP/2YD-0L
									High Power LED							
26	9.0 x 9.0mm	Blue	Water Clear	452	3.2	350	5.5†	100°	754-1314-1-ND	12.35	86.45	679.25	754-1314-2-ND	500	2223.00	AAD1-9090QB10ZC
		Red-Orange	Water Clear	640	2.5	350	12†	100°	754-1315-1-ND	6.18	43.23	339.63	754-1315-2-ND	500	1111.50	AAD1-9090SE28ZC
		Yellow	Water Clear	590	2.5	350	11.5†	100°	754-1316-1-ND	6.18	43.23	339.63	754-1316-2-ND	500	1111.50	AAD1-9090SY28ZC
		Blue	Water Clear	461	3.9	700	10Δ	100°	754-1317-1-ND	13.98	97.83	768.63	754-1317-2-ND	500	2515.50	AAD1-9090QB11ZC/3

§ Chromaticity Coordinates ‡ Iv (mcd) @ 10mA † Iv (cd) @ 350mA Δ Iv (cd) @ 700mA

LAMINA
BRIGHT LIGHTS. BRIGHT IDEAS.

Light Engines

Dimensions in Inches (mm)

Fig.	Color	Vf Typical (V)†	If Typical (A)	Power Typical (W)†	Lumens Typical (lm)†	Kelvin Units (K)	Digi-Key Part No.	Price Each 1	10	50	T & R Pricing‡ 250	Lamina Part No.
	Atlas™ — RoHS Compliant											
1	R/G/B	4.6/6.9/6.9	0.35	1.6/2.4/2.4	69/109/29	—	521-1035-1-ND	24.00	21.00	18.00	3930.00	NT-43F0-0424
2	Warm White	7.0	0.70	4.9	156	3,050	521-1037-1-ND	22.40	19.60	16.80	3668.00	NT-42D1-0425
	Daylight White	7.0	0.70	4.9	244	4,700	521-1039-1-ND	21.56	18.87	16.17	3530.50	NT-42D0-0426
	Red	4.6	0.70	3.2	109	—	521-1054-ND	22.40	17.59	16.02	—	NT-41A0-0482
	Amber	5.1	0.70	3.6	131	—	521-1055-ND	22.40	17.59	16.02	—	NT-41E0-0483
	Blue	6.9	0.70	4.8	63	—	521-1056-ND	26.60	20.89	19.02	—	NT-42B1-0484
	Green	6.9	0.70	4.8	216	—	521-1057-ND	26.60	20.89	19.02	—	NT-42C1-0485
	Daylight White	6.6	0.70	4.9	164	4,700	521-1058-ND	27.72	21.76	19.82	—	NT-45D0-0447
	Warm White	6.6	0.70	4.9	119	3,050	521-1059-ND	27.72	21.76	19.82	—	NT-45D1-0446
3	Heatsink, 1" (25.4mm), for Atlas, BL-2000/4000						521-1015-ND	19.42	17.38	16.17	—	HS-4100-0345
	Titan™ — RoHS Compliant											
4	R/G/B	6.9/11.4/10.5	1.05	7.3/12.0/11.0	304/527/134	—	521-1045-ND	80.20	74.36	68.12	—	NT-53F0-0428
	Warm White	19.8	1.05	20.8	771	3,050	521-1044-ND	77.12	71.50	65.50	—	NT-52D1-0430
	Daylight White	19.8	1.05	20.8	1146	4,700	521-1043-ND	77.12	71.50	65.50	—	NT-52D0-0429
	Red	13.3	1.05	14.0	570	—	521-1062-ND	84.83	78.65	71.50	—	NT-51A0-0468
	Amber	14.5	1.05	15.2	578	—	521-1063-ND	84.83	78.65	71.50	—	NT-51E0-0481
	Blue	19.7	1.05	20.7	244	—	521-1064-ND	92.54	85.80	78.00	—	NT-52B1-0469
	Green	21.1	1.05	22.2	942	—	521-1065-ND	100.26	92.95	84.50	—	NT-52C1-0470
5	Heatsink, 1" (25.4mm), for Titan, BL-3000						521-1016-ND	25.62	22.90	21.35	—	HS-5100-0346
	Heatsink, 2.36" (59.94mm), for Titan, BL-3000						521-1068-ND	32.02	25.14	22.90	—	HS-5200-0493
	TitanTurbo™ — RoHS Compliant											
4	Daylight White	11.3	5.0	56.5	1853	4,700	521-1060-ND	131.10	121.55	110.50	—	NT-54D0-0487
	Warm White	11.3	5.0	56.5	1058	3,050	521-1061-ND	131.10	121.55	110.50	—	NT-54D1-0486
	Accessories											
	EZConnect Board with Connector for BL-4000 Series						521-1024-ND	8.84	7.74	5.53	—	EZ-4000-3357
	EZConnect Assembly Cable for BL-4000 Series						521-1025-ND◆	4.50	3.94	2.82	—	EZ-46WH-0354
	EZConnect Board for Atlas Series, R/G/B						521-1036-ND◆	33.00	25.91	21.62	—	EZ-43F0-0431
	EZConnect Board for Atlas Series, Warm White						521-1038-ND◆	31.40	24.65	20.57	—	EZ-42D1-0432
	EZConnect Board for Atlas Series, Daylight White						521-1040-ND◆	30.56	23.99	20.02	—	EZ-42D0-0433
	EZConnect Wire Harness for Titan Series						521-1046-ND◆	7.50	6.57	5.63	—	NT-50WH-0427
	Lens, Optic Medium with holder for Atlas Series						521-1041-ND◆	5.62	4.42	3.69	—	OP-4FM1-0442
	Lens, Optic Wide with holder for Atlas Series						521-1042-ND◆	5.62	4.42	3.69	—	OP-4FW1-0441
	Lens, Optic Narrow with holder for Atlas R/G/B Series						521-1066-ND◆	10.00	7.85	7.15	—	OP-4LN1-0457
	Lens, Optic Narrow with holder for Atlas White Series						521-1067-ND◆	10.00	7.85	7.15	—	OP-4LN2-0492
	Lens, Optic Narrow 10 Degrees with holder for Titan White Series						521-1050-ND◆	26.00	20.41	18.59	—	OP-5LN1-0451
	Lens, Optic Narrow 10 Degrees with holder for Titan Series						521-1069-ND◆ **NEW!**	29.00	25.38	22.77	—	OP-5LN1-0499
	Lens, Optic Narrow 25 Degrees with holder for Titan Series						521-1051-ND◆	20.00	15.70	14.30	—	OP-5LN2-0445
	Lens, Optic Medium 30 Degrees with holder for Titan Series						521-1052-ND◆	20.00	15.70	14.30	—	OP-5LM3-0455
	Lens, Optic Wide 45 Degrees with holder for Titan Series						521-1053-ND◆	20.00	15.70	14.30	—	OP-5LW4-0456
	Kits											
	Atlas, R/G/B						521-1032-ND	287.50	—	—	—	DK-04F0-0396
	Atlas 120VAC, White						521-1033-ND	138.75	—	—	—	DK-04D0-0394
	Atlas 230VAC, White						521-1034-ND	137.50	—	—	—	DK-04D0-0395
	Titan, White						521-1047-ND	287.50	—	—	—	DK-05D0-0399
	Titan, Red, Green, Blue						521-1048-ND	356.25	—	—	—	DK-05F0-0398

Fig.	Color	Input Voltage Typical (VAC)	Power (W)	Lumens (lm)	Kelvin Units (K)	Digi-Key Part No.	Price Each 1	10	50	Lamina Part No.
	NEW!* SoL™ — RoHS Compliant *NEW!									
6	Warm White	12	7.4	200	3,050	521-1072-ND	61.98	54.24	48.66	RL-16D2-0496
	Daylight White	12	7.4	200	4,700	521-1070-ND	61.98	54.24	48.66	RL-16D0-0460
	TruColor	12	7.4	120	3,050	521-1071-ND	61.98	54.24	48.66	RL-16D1-0518

◆ ***RoHS Compliant*** † Optical and electrical specifications are given for the specified drive current at a 25° junction temperature ‡ For Tape and Reel part number, change 1-ND to 2-ND

Fig. 1 – Atlas

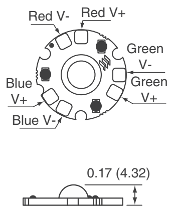

Fig. 2 – Atlas

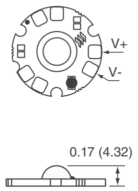

Fig. 3

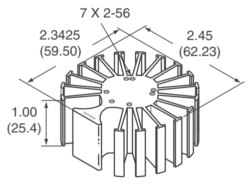

Fig. 4 – Titan

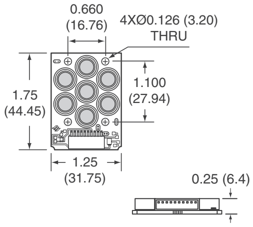

Fig. 5

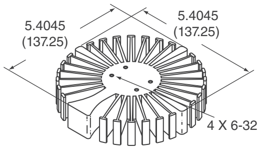

Fig. 6 – SoL *NEW!*

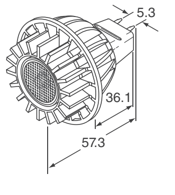

ENFIS

LED Arrays and Engines

Dimensions in mm

Fig.	Emitted Color	Peak Wavelength (nm)	Typical Vf (V)	Maximum If (A)	Typical Lumens (lm)	Digi-Key Part No.	Price Each 1	10	50
Uno Tag Arrays — RoHS Compliant									
1	Ultra Violet	375	18.0	1.00	—	722-1030-ND	221.96	197.94	186.47
	Violet	405	19.0	2.00	—	722-1031-ND	221.96	197.94	186.47
	Blue	465	16.0	2.40	350	722-1026-ND	157.52	140.47	132.33
	Green	520	16.0	2.40	980	722-1027-ND	157.52	140.47	132.33
	Amber	595	11.5	1.60	400	722-1025-ND	157.52	140.47	132.33
	Red	630	11.8	1.55	430	722-1029-ND	157.52	140.47	132.33
	Infra-Red	870	8.0	2.30	—	722-1028-ND	221.96	197.94	186.47
	White	—	16.0	2.40	1000	722-1032-ND	157.52	140.47	132.33
NEW! Uno-Plus Arrays — RoHS Compliant NEW!									
2	Ultra Violet	375	33.0	0.75	—	722-1068-ND	272.08	242.63	228.57
	Violet	405	30.0	1.67	—	722-1069-ND	272.08	242.63	228.57
	Blue	465	30.0	1.67	325	722-1062-ND	217.66	194.11	182.86
	Green	520	28.4	1.75	1050	722-1063-ND	217.66	194.11	182.86
	Amber	595	22.3	2.25	1000	722-1064-ND	217.66	194.11	182.86
	Red	630	20.2	2.475	800	722-1065-ND	217.66	194.11	182.86
	Infra-Red	870	17	2.95	—	722-1067-ND	272.08	242.63	228.57
	White	—	28.8	1.75	1300	722-1066-ND	234.85	209.43	197.30
	RGBA	—	—	2.115	820	722-1070-ND	217.66	194.11	182.86
Quattro Arrays — RoHS Compliant									
3	Ultra Violet	375	36.5	5.5	—	722-1004-ND	2141.53	1970.48	—
	Violet	405	38.1	10.5	—	722-1001-ND	2141.53	1970.48	—
	Blue	465	33.4	12.0	3700	722-1006-ND	1481.32	1363.00	1322.40
	Green	520	31.9	12.5	10300	722-1007-ND	1481.32	1363.00	1322.40
	Amber	595	23.5	17.0	9500	722-1002-ND	1481.32	1363.00	1322.40
	Red	630	24	16.7	8300	722-1003-ND	1481.32	1363.00	1322.40
	Infra-Red	870	15.4	13.0	—	722-1008-ND	2141.53	1970.48	—
	RGBA	—	—	14.4	8000	722-1005-ND	1481.32	1363.00	1322.40
NEW! Quattro-Mini Arrays — RoHS Compliant NEW!									
4	Ultra Violet	375	34	2.95	—	722-1041-ND	1186.13	1085.11	1059.85
	Violet	405	32	5.0	—	722-1042-ND	1186.13	1085.11	1059.85
	Blue	465	34	4.7	1050	722-1035-ND	771.91	706.17	689.73
	Green	520	35	4.575	4230	722-1036-ND	771.91	706.17	689.73
	Amber	595	28	5.7	2810	722-1037-ND	771.91	706.17	689.73
	Red	630	27	5.925	3100	722-1038-ND	771.91	706.17	689.73
	Infra-Red	870	17	5.9	—	722-1040-ND	1186.13	1085.11	1059.85
	White	—	34	4.7	3875	722-1039-ND	821.88	751.88	734.38
	RGBA	—	—	—	1569	722-1043-ND	821.88	751.88	734.38

Fig.	Emitted Color	Peak Wavelength (nm)	Typical Input Voltage (V)	Output Power (W)	Typical Lumens (lm)	Digi-Key Part No.	Price Each 1	10	50
Uno Air Light Engine									
5	Ultra Violet	375	12	18	—	722-1020-ND	403.92	366.21	348.98
	Violet	405	12	38	—	722-1024-ND	403.92	366.21	348.98
	Blue	465	12	38	200	722-1022-ND	249.17	222.20	209.33
	Green	520	12	38	800	722-1023-ND	249.17	222.20	209.33
	Amber	595	9	18	300	722-1017-ND	249.17	222.20	209.33
	Red	630	9	18	340	722-1019-ND	249.17	222.20	209.33
	Infra-Red	870	5	18	—	722-1018-ND	403.92	366.21	348.98
	White	—	12	38	850	722-1021-ND	267.78	238.80	224.97
NEW! Uno-Plus Light Engine — RoHS Compliant NEW!									
6	Ultra Violet	375	48	25	—	722-1077-ND	394.40	357.57	340.75
	Violet	405	48	50	—	722-1078-ND	394.40	357.57	340.75
	Blue	465	48	50	260	722-1071-ND	280.67	250.30	235.79
	Green	520	48	50	1000	722-1072-ND	280.67	250.30	235.79
	Amber	595	48	50	700	722-1073-ND	280.67	250.30	235.79
	Red	630	48	50	600	722-1074-ND	280.67	250.30	235.79
	Infra-Red	870	48	50	—	722-1076-ND	394.40	357.57	340.75
	White	—	48	50	1100	722-1075-ND	306.45	273.28	251.45
	RGBA	—	48	50	700	722-1079-ND	505.92	458.68	437.10
Uno-Plus Air Light Engine — RoHS Compliant									
6	Ultra Violet	375	48	25	—	722-1085-ND ***NEW!***	463.76	420.46	400.68
	Violet	405	48	50	—	722-1086-ND ***NEW!***	463.76	420.46	400.68
	Blue	465	48	50	260	722-1080-ND ***NEW!***	316.47	282.22	259.68
	Green	520	48	50	100	722-1081-ND ***NEW!***	316.47	282.22	259.68
	Amber	595	48	50	700	722-1082-ND ***NEW!***	463.76	420.46	400.68
	Red	630	48	50	600	722-1083-ND ***NEW!***	316.47	282.22	259.68
	Infra-Red	870	48	50	—	722-1084-ND ***NEW!***	488.31	435.46	400.68
	White	—	48	50	1100	722-1034-ND	342.25	305.21	280.83
	RGBA	—	48	50	700	722-1033-ND	583.44	528.96	489.06
Quattro Air Light Engine									
7	Ultra Violet	375	48	200	—	722-1015-ND	2471.00	2273.63	—
	Violet	405	48	200	—	722-1014-ND	2471.00	2273.63	—
	Blue	465	48	200	2000	722-1009-ND	1976.80	1818.90	1764.72
	Green	520	48	200	6400	722-1010-ND	1976.80	1818.90	1764.72
	Amber	595	48	200	6000	722-1013-ND	1976.80	1818.90	1764.72
	Red	630	48	200	5700	722-1012-ND	1976.80	1818.90	1764.72
	Infra-Red	870	48	200	—	722-1016-ND	2471.00	2273.63	—
	RGBA	—	48	200	4700	722-1011-ND	2141.53	1970.48	1911.78
NEW! Quattro-Mini Light Engine — RoHS Compliant NEW!									
8	Ultra Violet	375	48	100	—	722-1050-ND	1611.57	1482.85	1438.68
	Violet	405	48	160	—	722-1051-ND	1611.57	1482.85	1438.68
	Blue	465	48	160	1050	722-1044-ND	1087.51	994.89	971.73
	Green	520	48	160	4230	722-1045-ND	1087.51	994.89	971.73
	Amber	595	48	160	2810	722-1046-ND	1087.51	994.89	971.73
	Red	630	48	160	3100	722-1047-ND	1087.51	994.89	971.73
	Infra-Red	870	48	100	—	722-1049-ND	1611.57	1482.85	1438.68
	White	—	48	160	3875	722-1048-ND	1128.27	1032.18	1008.15
	RGBA	—	48	160	1569	722-1052-ND	1120.38	1024.96	1001.10
NEW! Quattro-Mini Air Light Engine — RoHS Compliant NEW!									
8	Ultra Violet	375	48	100	—	722-1059-ND	1651.16	1519.28	1474.02
	Violet	405	48	160	—	722-1060-ND	1651.16	1519.28	1474.02
	Blue	465	48	160	1050	722-1053-ND	1531.12	1408.83	1366.86
	Green	520	48	160	4230	722-1054-ND	1531.12	1408.83	1366.86
	Amber	595	48	160	2810	722-1055-ND	1531.12	1408.83	1366.86
	Red	630	48	160	3100	722-1056-ND	1531.12	1408.83	1366.86
	Infra-Red	870	48	100	—	722-1058-ND	1651.16	1519.28	1474.02
	White	—	48	160	1569	722-1057-ND	1570.71	1445.25	1402.20
	RGBA	—	48	160	3875	722-1061-ND	1651.16	1519.28	1474.02

Fig. 1

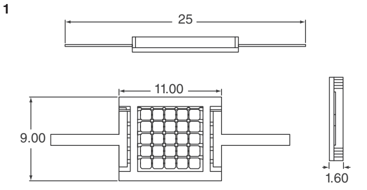

Fig. 2 ***NEW!***

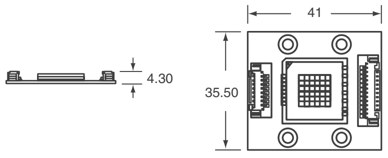

Fig. 3

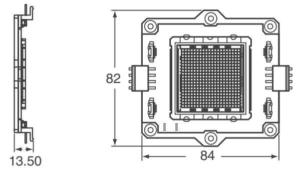

Fig. 4 ***NEW!***

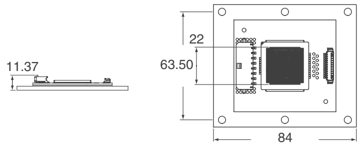

Fig. 5

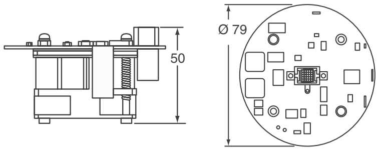

Fig. 6 ***NEW!***

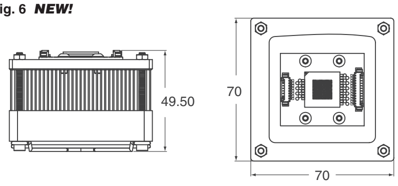

Fig. 7

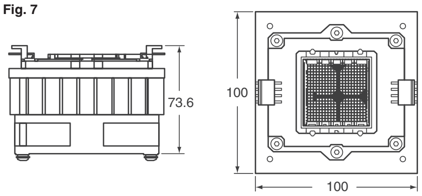

Fig. 8 ***NEW!***

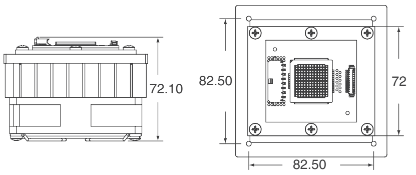

CML
INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT

LED Incandescent Replacements

Chicago Miniature Incandescent replacements have extremely high brightness with low current draw. Long life typically 100K hours vs. 10K hours. Storage Temp: -25°C ~ 80°C Ambient Temp: -20°C ~ 60°C

Fig. 1

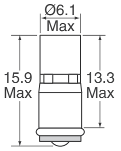

Replaces incandescent lamps:
-12VDC 394, 330, 382
- 24V DC and 28V DC 327, 376, 385, 387

Fig. 2

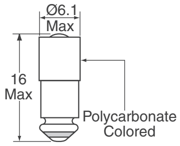

Replaces incandescent lamps:
- 12V DC 336, 386, 393
- 24V DC and 28V DC 276, 334, 388

Fig. 3

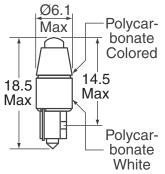

Replaces incandescent lamps:
- 12V AC/DC 18, 37, 70, 73, 74
- 24V AC/DC and 28V AC/DC 17, 85

Fig. 4

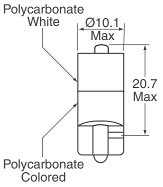

Replaces incandescent lamps:
- 12V AC/DC 192, 124, 158, 161, 168, 193, 194, 658, 184
- 24V AC/DC and 28V AC/DC 152, 400, 464, 585, 655, 656, 657

Fig. 5

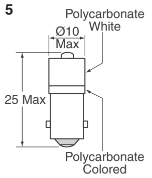

Replaces incandescent lamps:
- 12V AC/DC 12MB, 181, 756, 1488, 1815, 1894, 1889, 1891, 1893, 1898
- 24V AC/DC 24MB, 1437, 1818
- 28V AC/DC 313, 757, 1819, 1820, 1829, 1843, 1864, 1873

Fig. 6

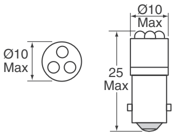

Replaces incandescent lamps:
- 24V AC/DC 24MB, 1437, 1818
- 28V AC/DC 313, 757, 1819, 1820, 1829, 1843, 1864, 1873

Fig.	Color	Voltage	Current (mA)	Lumi. Intensity mcd	Wavelength (nm)	Digi-Key Part No.	Price Each			CML Part No.
							1	25	100	
15101 Series T 1 3/4 Midget Flange Based LED										
1	Red	12DC	14	330	630	L1105-ND	5.34	4.33	3.13	1510125UR3
	Green	12DC	14	910	525	L1104-ND◆	9.48	7.69	5.56	1510125UG3
	Yellow	12DC	14	280	587	L1106-ND	5.34	4.33	3.13	1510125UY3
	Blue	12DC	14	350	470	L1103-ND	9.48	7.69	5.56	1510125B3
	White Clear	12DC	14	700	—	L1107-ND◆	9.48	7.69	5.56	1510125W3
	White Diff.	12DC	14	350	—	L1108-ND	9.48	7.69	5.56	1510125W3D
	Red	24DC	14	330	630	L1111-ND◆	5.57	4.52	3.27	1510135UR3
	Green	24DC	14	910	525	L1110-ND◆	9.72	7.88	5.70	1510135UG3
	Yellow	24DC	14	280	587	L1112-ND	5.57	4.52	3.27	1510135UY3
	Blue	24DC	14	350	470	L1109-ND	9.72	7.88	5.70	1510135B3
	White Diff.	24DC	14	350	—	L1114-ND	9.72	7.88	5.70	1510135W3D
	Red	28DC	14	330	630	L1117-ND◆	5.57	4.52	3.27	1510145UR3
	Green	28DC	14	910	525	L1116-ND◆	9.72	7.88	5.70	1510145UG3
	Yellow	28DC	14	280	587	L1118-ND◆	5.57	4.52	3.27	1510145UY3
	Blue	28DC	14	350	470	L1115-ND	9.72	7.88	5.70	1510145B3
	White Clear	28DC	14	700	—	L1119-ND◆	9.72	7.88	5.70	1510145W3
	White Diff.	28DC	14	350	—	L1120-ND	9.72	7.88	5.70	1510145W3D
15121 Series T 1 3/4 Midget Groove Based LED										
2	Red	12DC	7/14	330	630	L1123-ND	6.03	4.89	3.54	1512125UR3
	Green	12DC	7/14	910	525	L1122-ND	10.18	8.25	5.97	1512125UG3
	Yellow	12DC	7/14	280	587	L1124-ND◆	6.03	4.89	3.54	1512125UY3
	Blue	12DC	7/14	350	470	L1121-ND	10.18	8.25	5.97	1512125B3
	White Clear	12DC	7/14	700	—	L1023-ND	10.18	8.25	5.97	1512125W3
	White Diff.	12DC	7/14	350	—	L1024-ND	10.18	8.25	5.97	1512125W3D
	Red	24DC	7/14	330	630	L1027-ND	6.21	5.03	3.64	1512135UR3
	Green	24DC	7/14	910	525	L1026-ND	10.35	8.39	6.07	1512135UG3
	Yellow	24DC	7/14	280	587	L1028-ND	6.21	5.03	3.64	1512135UY3
	Blue	24DC	7/14	350	470	L1025-ND◆	10.35	8.39	6.07	1512135B3
	White Clear	24DC	7/14	700	—	L1029-ND◆	10.35	8.39	6.07	1512135W3
	White Diff.	24DC	7/14	350	—	L1030-ND	10.35	8.39	6.07	1512135W3D
	Red	28DC	7/14	330	630	L1033-ND	6.21	5.03	3.64	1512145UR3
	Green	28DC	7/14	910	525	L1032-ND	10.35	8.39	6.07	1512145UG3
	Yellow	28DC	7/14	280	587	L1034-ND	6.21	5.03	3.64	1512145UY3
	Blue	28DC	7/14	350	470	L1031-ND	10.35	8.39	6.07	1512145B3
	White Clear	28DC	7/14	700	—	L1035-ND◆	10.35	8.39	6.07	1512145W3
	White Diff.	28DC	7/14	350	—	L1036-ND	10.35	8.39	6.07	1512145W3D
1511A Series T 1 3/4 Wedge Based LED										
3	Red	12AC/DC	6/12	280	630	L1039-ND	6.21	5.03	3.64	1511A25UR3
	Green	12AC/DC	6/12	780	525	L1038-ND	10.35	8.39	6.07	1511A25UG3
	Yellow	12AC/DC	6/12	240	587	L1040-ND◆	6.21	5.03	3.64	1511A25UY3
	Blue	12AC/DC	6/12	300	470	L1037-ND	10.35	8.39	6.07	1511A25B3
	White Clear	12AC/DC	6/12	600	—	L1041-ND	10.35	8.39	6.07	1511A25W3
	White Diff.	12AC/DC	6/12	300	—	L1042-ND	10.35	8.39	6.07	1511A25W3D
	Red	24AC/DC	5/10	230	630	L1045-ND◆	6.21	5.03	3.64	1511A35UR3
	Green	24AC/DC	5/10	650	525	L1044-ND	10.35	8.39	6.07	1511A35UG3
	Yellow	24AC/DC	5/10	200	587	L1046-ND	6.21	5.03	3.64	1511A35UY3
	Blue	24AC/DC	5/10	250	470	L1043-ND	10.35	8.39	6.07	1511A35B3
	White Clear	24AC/DC	5/10	500	—	L1047-ND◆	10.35	8.39	6.07	1511A35W3
	White Diff.	24AC/DC	5/10	250	—	L1048-ND◆	10.35	8.39	6.07	1511A35W3D
	Red	28AC/DC	5/10	230	630	L1051-ND	6.21	5.03	3.64	1511A45UR3
	Green	28AC/DC	5/10	650	525	L1050-ND	10.35	8.39	6.07	1511A45UG3
	Yellow	28AC/DC	5/10	200	587	L1052-ND	6.21	5.03	3.64	1511A45UY3
	Blue	28AC/DC	5/10	250	470	L1049-ND	10.35	8.39	6.07	1511A45B3
	White Clear	28AC/DC	5/10	500	—	L1053-ND◆	10.35	8.39	6.07	1511A45W3
	White Diff.	28AC/DC	5/10	250	—	L1054-ND◆	10.35	8.39	6.07	1511A45W3D
1511B Series T 3 1/4 Wedge Based LED										
4	Red	12AC/DC	7/14	330	630	L1057-ND◆	6.21	5.03	3.64	1511B25UR3
	Green	12AC/DC	7/14	910	525	L1056-ND	10.35	8.39	6.07	1511B25UG3
	Yellow	12AC/DC	7/14	280	587	L1058-ND	6.21	5.03	3.64	1511B25UY3
	Blue	12AC/DC	7/14	350	470	L1055-ND	10.35	8.39	6.07	1511B25B3
	White Clear	12AC/DC	7/14	700	—	L1059-ND	10.35	8.39	6.07	1511B25W3
	White Diff.	12AC/DC	7/14	350	—	L1060-ND	10.35	8.39	6.07	1511B25W3D
	Red	24AC/DC	7/14	330	630	L1063-ND	6.21	5.03	3.64	1511B35UR3
	Green	24AC/DC	7/14	910	525	L1062-ND◆	10.35	8.39	6.07	1511B35UG3
	Yellow	24AC/DC	7/14	280	587	L1064-ND	6.21	5.03	3.64	1511B35UY3
	Blue	24AC/DC	7/14	350	470	L1061-ND	10.35	8.39	6.07	1511B35B3
	White Clear	24AC/DC	7/14	700	—	L1065-ND	10.35	8.39	6.07	1511B35W3
	White Diff.	24AC/DC	7/14	350	—	L1066-ND	10.35	8.39	6.07	1511B35W3D
	Red	28AC/DC	7/14	330	630	L1069-ND	6.21	5.03	3.64	1511B45UR3
	Green	28AC/DC	7/14	910	525	L1068-ND	10.35	8.39	6.07	1511B45UG3
	Yellow	28AC/DC	7/14	280	587	L1070-ND	6.21	5.03	3.64	1511B45UY3
	Blue	28AC/DC	7/14	350	470	L1067-ND	10.35	8.39	6.07	1511B45B3
	White Clear	28AC/DC	7/14	700	—	L1071-ND	10.35	8.39	6.07	1511B45W3
	White Diff.	28AC/DC	7/14	350	—	L1072-ND	10.35	8.39	6.07	1511B45W3D
18602 Series T 3 1/4 Bayonet Based LED										
5	Red	12AC/DC	15	350	630	L1073-ND◆	6.82	5.53	4.00	18602250
	Green	12AC/DC	15	1000	525	L1074-ND◆	11.05	8.96	6.48	18602251
	Yellow	12AC/DC	15	300	587	L1075-ND	6.82	5.53	4.00	18602252
	Blue	12AC/DC	15	400	470	L1076-ND	11.05	8.96	6.48	18602257
	White Clear	12AC/DC	15	750	—	L1077-ND◆	11.05	8.96	6.48	1860225W3
	White Diff.	12AC/DC	15	375	—	L1078-ND	11.05	8.96	6.48	1860225W3D
	Green	24AC/DC	15	1000	525	L1080-ND◆	11.05	8.96	6.48	18602351
	Yellow	24AC/DC	15	300	587	L1081-ND	6.82	5.53	4.00	18602352
	Blue	24AC/DC	15	400	470	L1082-ND	11.05	8.96	6.48	18602357
	White Clear	24AC/DC	15	750	—	L1083-ND◆	11.05	8.96	6.48	1860235W3
	White Diff.	24AC/DC	15	375	—	L1084-ND◆	11.05	8.96	6.48	1860235W3D
	Red	28AC/DC	15	350	630	L1085-ND◆	6.82	5.53	4.00	18602450
	Green	28AC/DC	15	1000	525	L1086-ND	11.05	8.96	6.48	18602451
	Yellow	28AC/DC	15	300	587	L1087-ND	6.82	5.53	4.00	18602452
	Blue	28AC/DC	15	400	470	L1088-ND	11.05	8.96	6.48	18602457
	White Clear	28AC/DC	15	750	—	L1089-ND◆	11.05	8.96	6.48	1860245W3
	White Diff.	28AC/DC	15	375	—	L1090-ND◆	11.05	8.96	6.48	1860245W3D
18620 Series T 3 1/4 Bayonet Based Multi LED										
6	Red	24AC/DC	9/17	3 x 400	630	L1091-ND	14.04	11.38	8.23	18620350
	Green	24AC/DC	5/10	3 x 680	525	L1092-ND	26.33	21.34	15.44	18620351
	Yellow	24AC/DC	9/17	3 x 350	587	L1093-ND	14.04	11.38	8.23	18620352
	Blue	24AC/DC	9/17	3 x 450	470	L1094-ND◆	26.33	21.34	15.44	18620357
	White Clear	24AC/DC	9/17	3 x 850	—	L1095-ND◆	26.33	21.34	15.44	1862035W3
	White Diff.	24AC/DC	9/17	3 x 425	—	L1096-ND	26.33	21.34	15.44	1862035W3D
	Red	28AC/DC	9/17	3 x 400	630	L1097-ND◆	14.04	11.38	8.23	18620450
	Green	28AC/DC	5/10	3 x 680	525	L1098-ND	26.33	21.34	15.44	18620451
	Yellow	28AC/DC	9/17	3 x 350	587	L1099-ND	14.04	11.38	8.23	18620452
	Blue	28AC/DC	9/17	3 x 450	470	L1100-ND	26.33	21.34	15.44	18620457
	White Clear	28AC/DC	9/17	3 x 850	—	L1101-ND	26.33	21.34	15.44	1862045W3
	White Diff.	28AC/DC	9/17	3 x 425	—	L1102-ND	26.33	21.34	15.44	1862045W3D

◆ *RoHS Compliant*

Dim. in mm

		Wave Length	Typ. Io	Typ. Vf	Typ. If	Digi-Key	Pricing			Tape & Reel†		Dialight
Fig.	**Color**	**pk(nm)**	**(mcd)**	**(V)**	**(mA)**	**Part No.**	**1**	**25**	**100**	**Qty.**	**Pricing**	**Part No.**
2	Red/Yellow	630/585	4.0/8.0	2.0/2.1	20.0	350-1352-1-ND	.92	17.88	66.00	—	—	597-7731-107
3	AlGaAs Red	660	20.0	1.75	10.0	350-1354-1-ND	.97	18.77	69.30	—	—	597-3121-207
4	Red/Yellow	635/586	7.3/6.8	2.0/2.0	10.0	350-1359-1-ND	1.11	22.01	82.36	—	—	597-7731-207
6A	Red/Green/Blue	645/466/570	10/5/16	2/3.8/2	20.0	350-1547-1-ND	6.00	125.00	400.00	—	—	592-3535-013
7	Blue	428	6.0	3.5	20.0	350-1535-1-ND	3.27	67.79	257.13	—	—	591-2601-013
	White	—	19.23	3.5	20.0	350-1537-1-ND	3.49	76.37	283.66	—	—	591-2801-013
8	Blue	428	6.0	3.5	20.0	350-1536-1-ND	3.27	67.79	257.13	—	—	591-2601-113
	White	—	37.6	3.5	20.0	350-1538-1-ND	3.49	76.37	283.66	—	—	591-2801-113
						RoHS Compliant						
1	Red	630	4.0	2.0	20.0	350-1568-1-ND	.83	16.09	59.40	3,000	257.40/M	597-3001-107F
	Green	565	12.0	2.0	20.0	350-1569-1-ND	.83	16.09	59.40	3,000	257.40/M	597-3301-107F
	Yellow	585	8.0	2.1	20.0	350-1570-1-ND	.93	17.96	66.30	3,000	287.30/M	597-3401-107F
2	Red/Green	630/565	4.0/12.0	2.0/2.0	20.0	350-1571-1-ND	1.06	21.16	79.17	3,000	348.08/M	597-7701-107F
	Yellow/Green	585/565	8.0/12.0	2.1/2.0	20.0	350-1572-1-ND	1.25	24.80	92.80	3,000	408.00/M	597-7721-107F
	Red/Yellow	630/585	4.0/8.0	2.0/2.1	20.0	350-1573-1-ND	.97	18.77	69.30	3,000	300.30/M	597-7731-107F
3	Green	565	8.0	2.1	20.0	350-1574-1-ND	.83	16.09	59.40	2,000	257.40/M	597-3301-207F
	AlGaAs Red	660	20.0	1.75	10.0	350-1575-1-ND	.76	14.63	54.00	2,000	234.00/M	597-3121-207F
	Yellow	586	6.0	2.1	20.0	350-1576-1-ND	.83	16.09	59.40	2,000	257.40/M	597-3401-207F
	Red	635	8.0	2.0	20.0	350-1577-1-ND	.83	16.09	59.40	2,000	257.40/M	597-3001-207F
	Blue	428	11	3.5	20.0	350-1588-1-ND	2.36	48.79	185.08	2,000	841.25/M	597-3601-207F
	White	—	135	3.5	20.0	350-1589-1-ND	3.46	75.60	280.80	2,000	1350.00/M	597-3901-207F
4	Red/Green	635/565	6.0/9.4	2.0/2.0	10.0	350-1578-1-ND	1.16	23.10	86.42	2,000	379.95/M	597-7701-207F
	Yellow/Green	585/565	4.0/9.4	2.0/2.0	10.0	350-1579-1-ND	1.03	20.38	76.27	2,000	335.33/M	597-7721-207F
	Red/Yellow	635/586	7.3/6.8	2.0/2.0	10.0	350-1580-1-ND	1.16	23.10	86.42	2,000	379.95/M	597-7731-207F
5	AlGaAs Red	640	25.0	1.7	20.0	350-1792-1-ND	1.91	38.05	142.39	600	427.17	595-2101-007F
	Green	567	11.0	2.1	20.0	350-1793-1-ND	1.91	38.05	142.39	600	427.17	595-2301-007F
	Yellow	588	9.0	2.2	20.0	350-1794-1-ND	1.91	38.05	142.39	600	427.17	595-2401-007F
6B	Red	638	23.9	1.8	10.0	350-1855-1-ND	3.24	67.21	254.93	360	483.89	592-2121-013F
	Green	569	9.1	2.1	10.0	350-1856-1-ND	3.24	67.21	254.93	360	483.89	592-2222-013F
	Yellow	595	33.6	2.0	10.0	350-1857-1-ND	3.30	72.10	267.80	360	528.39	592-2727-013F
6A	Red/Grn.-Red/Grn.	628/570	6.5/8	2.0/2.0	30.0	350-1858-1-ND	4.12	90.16	334.88	360	660.74	592-3030-013F
	Ylw./Grn.-Ylw./Grn.	586/570	6.5/8	2.0/2.0	30.0	350-1859-1-ND	4.12	90.16	334.88	360	660.74	592-3131-013F
	Red/Ylw.-Red/Ylw.	528/586	6.5/6.5	2.0/2.0	30.0	350-1860-1-ND	4.12	90.16	334.88	360	660.74	592-3232-013F
7	Red	628	5.0	2.0	10.0	350-1785-1-ND	1.83	36.35	136.01	1,600	623.77/M	591-2001-013F
	AlGaAs Red	645	14.0	1.75	10.0	350-1786-1-ND	1.91	38.05	142.39	1,600	653.04/M	591-2101-013F
	Green	570	4.0	2.0	10.0	350-1787-1-ND	1.83	36.35	136.01	1,600	623.77/M	591-2301-013F
	Yellow	590	5.0	2.0	10.0	350-1788-1-ND	1.83	36.35	136.01	1,600	623.77/M	591-2401-013F
	Blue	428	6.0	3.5	20.0	350-1584-1-ND	3.44	71.20	270.05	1,600	1276.60/M	591-2601-013F
	White	—	19.23	3.5	20.0	350-1586-1-ND	3.67	80.22	297.96	1,600	1461.15/M	591-2801-013F
8	Green	570	8.0	2.0	10.0	350-1581-1-ND	1.83	36.35	136.01	1,600	623.77/M	591-2301-113F
	AlGaAs Red	645	24.0	1.75	10.0	350-1582-1-ND	1.91	38.05	142.39	1,600	653.04/M	591-2101-113F
	Yellow	590	8.0	2.0	10.0	350-1583-1-ND	1.83	36.35	136.01	1,600	623.77/M	591-2401-113F
	Blue	428	6.0	3.5	20.0	350-1585-1-ND	3.44	71.20	270.05	1,600	1276.60/M	591-2601-113F
	White	—	37.6	3.5	20.0	350-1587-1-ND	3.67	80.22	297.96	1,600	1461.15/M	591-2801-113F
9	Red/Green	628/570	6.5/8.0	2.0/2.0	20.0	350-1789-1-ND	3.06	63.29	240.08	1,600	1134.90/M	591-3001-013F
	Yellow/Green	586/570	6.5/8.0	2.0/2.0	20.0	350-1790-1-ND	3.06	63.29	240.08	1,600	1134.90/M	591-3101-013F
	Red/Yellow	628/586	6.5/6.5	2.0/2.0	20.0	350-1791-1-ND	2.50	51.77	196.35	1,600	928.20/M	591-3201-013F
10	AlGaAs Red	660	17.0	1.7	20.0	350-1565-1-ND	.70	13.49	49.80	2,500	215.80/M	597-3111-407F
	Green	560	7.5	2.1	20.0	350-1566-1-ND	.70	13.49	49.80	2,500	215.80/M	597-3311-407F
	Yellow	580	6.0	2.2	20.0	350-1567-1-ND	.71	11.66	41.58	2,500	176.40/M	597-3401-407F
11	Red Clear	642	40	2.2	25	350-2029-1-ND	.41	5.78	17.49	4,000	66.00/M	598-8010-107F
	Red-Orange Clear	630	150	2	25	350-2030-1-ND	.46	6.48	19.61	4,000	74.00/M	598-8020-107F
	Orange Clear	610	—	2	25	350-2031-1-ND	.53	7.70	24.64	4,000	100.80/M	598-8030-107F
	Yellow Clear	595	130	2	25	350-2032-1-ND	.46	6.48	19.61	4,000	74.00/M	598-8040-107F
	Yellow Clear	590	130	2	25	350-2033-1-ND	.46	6.48	19.61	4,000	74.00/M	598-8050-107F
	Yellow-Green Clear	575	40	2	25	350-2034-1-ND	.41	5.78	17.49	4,000	66.00/M	598-8060-107F
	Green Clear	570	20	2	25	350-2035-1-ND	.41	5.78	17.49	4,000	66.00/M	598-8070-107F
	Green Clear	525	300	3.2	20	350-2036-1-ND	.68	13.16	48.60	4,000	210.60/M	598-8081-107F
	Blue Clear	475	140	3.2	20	350-2037-1-ND	.76	12.58	44.88	4,000	190.40/M	598-8091-107F
12	Red Clear	642	40	2.2	25	350-2038-1-ND	.17	2.87	10.23	3,000	43.40/M	598-8110-107F
	Red-Orange Clear	630	150	2	25	350-2039-1-ND	.41	5.78	17.49	3,000	66.00/M	598-8120-107F
	Orange Clear	610	—	2	25	350-2040-1-ND	.53	7.70	24.64	3,000	100.80/M	598-8130-107F
	Yellow Clear	595	130	2	25	350-2041-1-ND	.41	5.78	17.49	3,000	66.00/M	598-8140-107F
	Yellow Clear	590	130	2	25	350-2042-1-ND	.41	5.78	17.49	3,000	66.00/M	598-8150-107F
	Yellow-Green Clear	575	40	2	25	350-2043-1-ND	.39	5.43	16.43	3,000	62.00/M	598-8160-107F
	Green Clear	570	20	2	25	350-2044-1-ND	.39	5.43	16.43	3,000	62.00/M	598-8170-107F
	Green Clear	525	300	3.2	25	350-2045-1-ND	.68	13.16	48.60	3,000	210.60/M	598-8181-107F
	Blue Clear	475	140	3.2	25	350-2046-1-ND	.62	10.18	36.30	3,000	154.00/M	598-8191-107F
13	Red Clear	640	—	2	25	350-2047-1-ND	.43	5.95	18.02	3,000	68.00/M	598-8210-107F
	Red-Orange Clear	630	150	2	25	350-2048-1-ND	.45	6.30	19.08	3,000	72.00/M	598-8220-107F
	Orange Clear	610	110	2	25	350-2049-1-ND	.53	7.70	24.64	3,000	100.80/M	598-8230-107F
	Yellow Clear	595	130	2	25	350-2050-1-ND	.43	5.95	18.02	3,000	68.00/M	598-8240-107F
	Yellow Clear	590	130	2	25	350-2051-1-ND	.43	5.95	18.02	3,000	68.00/M	598-8250-107F
	Yellow-Green Clear	575	40	2	25	350-2052-1-ND	.43	5.95	18.02	3,000	68.00/M	598-8260-107F
	Green Clear	570	20	2	25	350-2053-1-ND	.43	5.95	18.02	3,000	68.00/M	598-8270-107F
	Green Clear	525	300	3.2	25	350-2054-1-ND	.68	13.16	48.60	3,000	210.60/M	598-8281-107F
	Blue Clear	475	140	3.2	25	350-2055-1-ND	.62	10.18	36.30	3,000	154.00/M	598-8291-107F

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Fig. 1

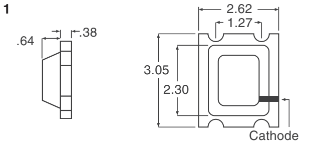

Fig. 2

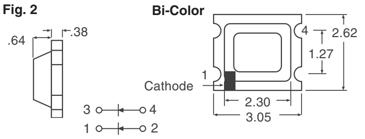

Fig. 3

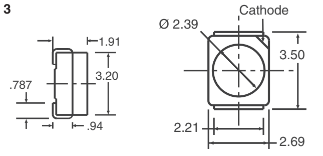

Fig. 4

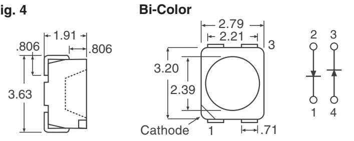

Fig. 5

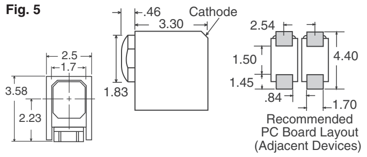

Fig. 6

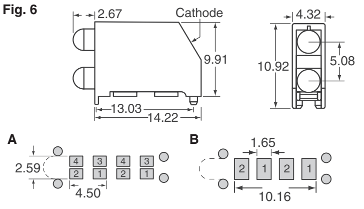

Fig. 7

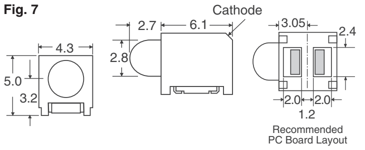

Fig. 8

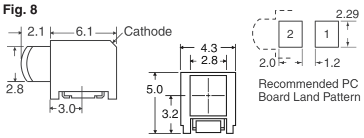

Fig. 9

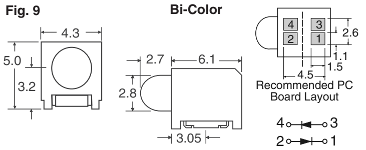

Fig. 10

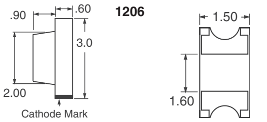

Fig. 11

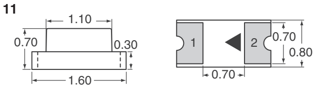

Dim. in mm

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Tape & Reel† Qty.	Tape & Reel† Pricing	Dialight Part No.
13	Red-Orange Diffused	630	150	2	25	350-2057-1-ND	.45	6.30	19.08	3,000	72.00/M	598-9220-107F
	Orange Diffused	610	—	2	25	350-2058-1-ND	.53	7.70	24.64	3,000	100.80/M	598-9230-107F
	Yellow-Green Diffused	575	40	2	30	350-2060-1-ND	.19	3.15	11.22	3,000	47.60/M	598-9260-107F
	Green Diffused	570	20	2	25	350-2061-1-ND	.43	5.95	18.02	—	—	598-9270-107F
	Green Diffused	525	300	3.2	25	350-2062-1-ND	.68	13.16	48.60	3,000	210.60/M	598-9281-107F
	Blue Diffused	475	140	3.2	25	350-2063-1-ND	.62	10.18	36.30	—	—	598-9291-107F
14	Red Clear	640	—	2	25	350-2064-1-ND	.23	3.79	13.53	3,000	57.40/M	598-8310-107F
	Red-Orange Clear	630	120	2	25	350-2065-1-ND	.44	6.33	20.24	3,000	82.80/M	598-8320-107F
	Orange Clear	610	110	2	25	350-2066-1-ND	.53	7.70	24.64	3,000	100.80/M	598-8330-107F
	Yellow Clear	595	130	2	25	350-2067-1-ND	.44	6.33	20.24	3,000	82.80/M	598-8340-107F
	Yellow Clear	590	130	2	25	350-2068-1-ND	.44	6.33	20.24	3,000	82.80/M	598-8350-107F
	Yellow-Green Clear	575	50	2	25	350-2069-1-ND	.51	7.18	21.73	3,000	82.00/M	598-8360-107F
	Green Clear	525	220	3.2	25	350-2070-1-ND	.68	13.16	48.60	3,000	210.60/M	598-8380-107F
	Blue Clear	475	140	3.2	25	350-2071-1-ND	.46	8.94	33.00	3,000	143.00/M	598-8391-107F
15A	Red/Green Clear	645/570	60/40	2/2	20	350-2072-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8510-207F
	Red-Org./Grn. Clear	630/570	110/40	2/2	20	350-2073-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8520-207F
	Yellow/Green Clear	592/570	110/40	2/2	20	350-2074-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8540-207F
	Yellow/Green Clear	592/530	110/120	2/3.2	30	350-2075-1-ND	.83	16.09	59.40	3,000	257.40/M	598-8550-207F
	Yellow/Red Clear	592/645	135/50	2.2/2.2	30	350-2076-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8560-207F
	Red/Ylw.-Grn. Clear	640/575	60/40	2.2/3.2	30	350-2077-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8570-207F
15B	Red/Grn./Blue Clear	645/530/475	60/120/90	2.2/3.2/3.2	20	350-2078-1-ND	2.63	54.38	206.25	3,000	937.50/M	598-8810-307F
	Red-Org./Grn./Blue Clear	630/530/475	120/220/90	2/3.2/3.2	20	350-2079-1-ND	2.63	54.38	206.25	3,000	937.50/M	598-8820-307F
	Red-Org./Grn./Blue Clear	630/530/475	120/220/90	2.2/3.2/3.2	20	350-2080-1-ND	2.63	54.38	206.25	3,000	937.50/M	598-8821-307F
16A	Red/Green Clear	645/570	60/40	2/2	20	350-2081-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8610-207F
	Red-Org./Grn. Clear	630/530	100/220	2/3.2	20	350-2082-1-ND	.83	16.09	59.40	3,000	257.40/M	598-8621-207F
	Yellow/Green Clear	592/570	110/40	2/2	20	350-2083-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8640-207F
	Yellow/Green Clear	592/530	100/150	2/3.2	20	350-2084-1-ND	.83	16.09	59.40	3,000	257.40/M	598-8650-207F
	Yellow/Red Clear	592/645	110/60	2.2/2.2	20	350-2085-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8660-207F
	Red/Ylw.-Grn. Clear	639/575	60/40	2.2/3.2	20	350-2086-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8670-207F
16B	Red/Grn./Blue Clear	645/530/475	60/120/90	2/3.2/3.2	20	350-2087-1-ND	2.84	58.73	222.75	3,000	1012.50/M	598-8610-307F
	Red-Org./Grn./Blue Clear	630/530/475	120/150/60	2/3.2/3.2	20	350-2088-1-ND	2.63	54.38	206.25	3,000	937.50/M	598-8920-307F
	Red-Org./Grn./Blue Diff.	630/530/475	60/100/40	2.2/3.2/3.2	20	350-2089-1-ND	2.63	54.38	206.25	3,000	937.50/M	598-9920-307F
17A	Red/Green Clear	645/570	60/40	2/2	20	350-2090-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8410-207F
	Red-Org./Grn. Clear	630/530	100/220	2/3.2	20	350-2091-1-ND	.83	16.09	59.40	3,000	257.40/M	598-8421-207F
	Yellow/Green Clear	592/575	135/50	2/2	20	350-2092-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8440-207F
	Yellow/Green Clear	592/530	120/120	2/3.2	20	350-2093-1-ND	.83	16.09	59.40	3,000	257.40/M	598-8450-207F
	Yellow/Red Clear	592/645	135/50	2/2.2	20	350-2094-1-ND	.53	8.36	27.36	3,000	121.60/M	598-8460-207F
	Red/Ylw.-Grn. Clear	639/575	40/30	2/2	20	350-2095-1-ND	.53	8.36	27.36	—	—	598-8470-207F
17B	Red/Grn./Blue Clear	645/530/475	60/120/90	2/3.2/3.2	20	350-2096-1-ND	2.63	54.38	206.25	3,000	937.50/M	598-8710-307F
	Red-Org./Grn./Blue Clear	630/530/475	80/150/60	2.2/3/3.2	20	350-2097-1-ND	2.63	54.38	206.25	3,000	937.50/M	598-8720-307F
	Red-Org./Grn./Blue Clear	630/530/475	80/150/60	2.2/3/3.2	20	350-2098-1-ND	2.63	54.38	206.25	3,000	937.50/M	598-8721-307F

† For Tape and Reel part number, change 1-ND to 2-ND.

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Dialight Part No.
19	Yellow	583	2.0	2.2	20.0	350-1149-ND	1.23	.95	.76	555-2401
20	Yellow	583	2.0	2.2	20.0	350-1162-ND	2.03	1.58	1.25	555-3401
	Yellow	583	2.1	5.0	4.7	350-1163-ND	2.19	1.69	1.35	555-3403
23	Blue	470	1000	3.6	30.0	350-1520-ND	6.19	4.82	3.90	551-4007
	Green	525	3400	3.5	30.0	350-1522-ND	5.73	4.46	3.61	551-4207
24	Red	635	4.0	5.0	10.0	350-1090-ND	1.41	1.09	.88	551-0509
	Yellow	583	1.6	1.9	2.0	350-1098-ND	1.09	.84	.68	551-1209
25	Green	565	8.0	5.0	12.0	350-1091-ND	4.28	3.33	2.70	551-0607-004
27	Green Clear	565	12.0	2.3	10.0	350-1135-ND	1.92	1.49	1.19	553-2222-300
30	Red	635	1.8	1.8	2.0	350-1278-ND	3.21	2.50	2.03	564-0200-111
31	Yellow Clear	583	140.0	2.2	20.0	350-1081-ND	1.16	.89	.72	550-5707
32	Yellow	583	8.0	5.0	10.0	350-1022-ND	1.16	.89	.72	550-0805
	Yellow	585	6.3	2.1	10.0	350-1042-ND	.90	.69	.56	550-2305
	Red	650	7.0	2.2	10.0	350-1046-ND	.90	.69	.56	550-2405
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1054-ND	1.68	1.30	1.04	550-3005
	Red	650	34.0	2.1	20.0	350-1060-ND	1.09	.84	.68	550-5105
	Yellow Clear	583	140.0	2.2	20.0	350-1080-ND	1.16	.89	.72	550-5705
33	Green	565	12.3	2.1	20.0	350-1004-ND	3.47	2.70	2.19	550-0207-004
	Orange	600	7.0	1.9	10.0	350-1052-ND	6.48	4.93	4.15	550-2507-004
35	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1114-ND	2.20	1.70	1.35	552-0711
36	Yellow	583	1.8	1.9	2.0	350-1029-ND	1.16	.89	.72	550-1204
	Red	650	34.0	2.1	20.0	350-1059-ND	1.32	1.02	.82	550-5104
37	Yellow	583	1.8	1.9	2.0	350-1189-ND	1.00	.77	.62	561-1201-100
	Yellow	590	10.0	2.4	20.0	350-1213-ND	.93	.72	.58	561-2301-100
	Yellow Tinted	583	50.0	2.2	10.0	350-1231-ND	.93	.72	.58	561-2601-100
38	Red	635	6.0	2.0	20.0	350-1164-ND	1.50	1.16	.92	566-0406
RoHS Compliant										
42	Red	635	10.0	2.0	20.0	350-1555-ND	.67	.51	.42	521-9216F
	Orange	600	7	2.2	20.0	350-1556-ND	.58	.45	.36	521-9498F
	Green	565	12.6	2.1	20.0	350-1557-ND	.67	.51	.42	521-9210F

Fig. 12

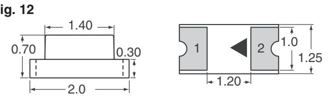

Fig. 13

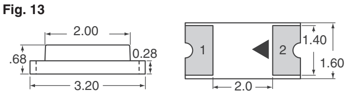

Fig. 14

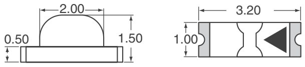

Fig. 15

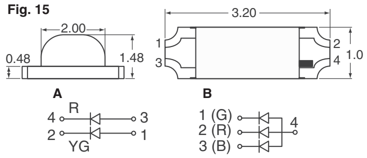

Fig. 16

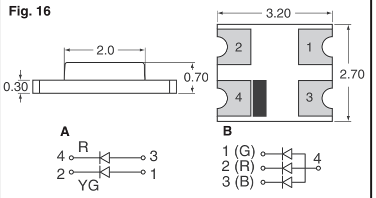

Fig. 17

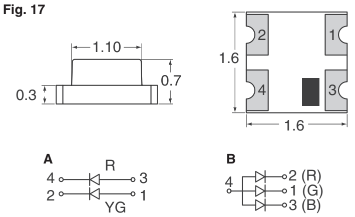

Fig. 18

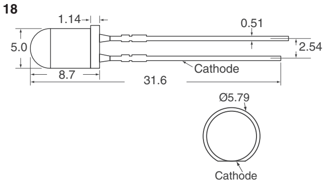

Fig. 19

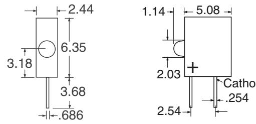

Fig. 20

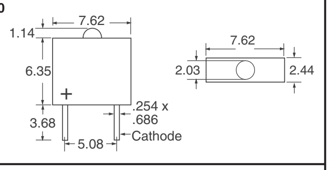

Fig. 21

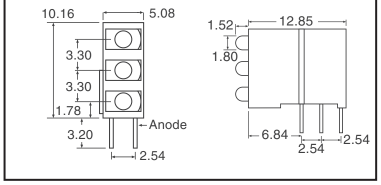

(Continued)

LEDs *(Cont.)*

Dim. in mm

		Wave Length	Typ. Io	Typ. Vf	Typ. If	Digi-Key	Price Each			Dialight
Fig.	**Color**	**pk(nm)**	**(mcd)**	**(V)**	**(mA)**	**Part No.**	**1**	**25**	**100**	**Part No.**
42	Yellow	583	10.0	2.2	20.0	350-1558-ND	.67	.51	.42	521-9211F
	White	—	1010	3.6	30.0	350-1561-ND	2.55	1.97	1.57	521-9901F
	Blue	464	460	3.5	30.0	350-1562-ND	1.43	1.10	.88	521-9918F
43	Blue	428	12.0	3.5	20.0	350-1560-ND	2.75	2.13	1.70	521-9831F
18	Blue	470	1010	3.8	30.0	350-1563-ND	1.43	1.10	.88	521-9946F
	White	—	1690	3.8	30.0	350-1564-ND	2.84	2.21	1.79	521-9948
44	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1559-ND	1.50	1.16	.92	521-9450F
19	Red	650	1.2	1.6	20.0	350-1711-ND	1.10	.85	.68	555-2001F
	Green	565	1.0	2.4	20.0	350-1716-ND	1.13	.87	.70	555-2301F
	Yellow	583	2.0	2.2	20.0	350-1718-ND	1.13	.87	.70	555-2401F
	Red	650	1.9	5.0	6.0	350-1712-ND	1.23	.95	.76	555-2003F
	Red	650	0.9	5.0	3.0	350-1713-ND	.90	.69	.56	555-2007F
	Red	650	0.6	5.0	1.0	350-1715-ND	1.29	.99	.80	555-2009F
	Green	565	2.5	5.0	4.7	350-1717-ND	1.29	.99	.80	555-2303F
	Yellow	583	2.1	5.0	4.7	350-1719-ND	1.07	.83	.67	555-2403F
	Red	650	0.9	24.0	3.0	350-1714-ND	1.23	.95	.76	555-2008F
20	Red	650	1.2	1.6	20.0	350-1720-ND	1.42	1.09	.88	555-3001F
	Green	565	1.0	2.4	20.0	350-1725-ND	1.84	1.43	1.14	555-3301F
	Yellow	583	2.0	2.2	20.0	350-1727-ND	1.84	1.43	1.14	555-3401F
	Red	650	1.9	5.0	6.0	350-1721-ND	1.12	.87	.69	555-3003F
	Red	650	0.9	5.0	3.0	350-1722-ND	1.69	1.31	1.04	555-3007F
	Red	650	0.6	5.0	1.0	350-1724-ND	1.78	1.38	1.10	555-3009F
	Green	565	2.5	5.0	4.7	350-1726-ND	2.00	1.54	1.23	555-3303F
	Yellow	583	2.1	5.0	4.7	350-1728-ND	2.00	1.54	1.23	555-3403F
	Red	650	0.9	24.0	3.0	350-1723-ND	1.69	1.31	1.04	555-3008F
45	Red	650	1.2	1.6	20.0	350-1799-ND	3.91	3.05	2.47	555-4001F
	Green	565	1.0	2.4	20.0	350-1800-ND	4.54	3.53	2.86	555-4301F
	Yellow	583	2.0	2.2	20.0	350-1801-ND	3.97	3.09	2.51	555-4401F
	Red	650	1.9	5.0	6.0	350-1795-ND	4.43	3.45	2.79	555-4003F
	Red	650	0.9	5.0	3.0	350-1796-ND	4.43	3.45	2.79	555-4007F
	Green	565	2.5	5.0	4.7	350-1797-ND	4.54	3.53	2.86	555-4303F
	Yellow	583	2.1	5.0	4.7	350-1798-ND	4.54	3.53	2.86	555-4403F
20	Red	650	1.9	5.0	6.0	350-1802-ND	6.52	5.08	4.11	555-5003F
	Red	650	1.2	1.6	20.0	350-1803-ND	5.73	4.46	3.61	555-5001F
	Green	565	1.0	2.4	20.0	350-1804-ND	6.77	5.27	4.27	555-5301F
	Yellow	583	2.0	2.2	20.0	350-1805-ND	6.77	5.27	4.27	555-5401F
21	Green	565	8.7	2.1	20.0	350-1806-ND	2.66	2.06	1.64	570-0100-222F
	Red	635	12.6	2.0	20.0	350-1807-ND	2.66	2.06	1.64	570-0100-111F
	Yellow	585	12.6	2.1	20.0	350-1808-ND	2.66	2.06	1.64	570-0100-333F
	Red/Ylw./Grn.	635/585/565	12.6/12.6/8.7	2.0/2.1/2.1	20.0	350-1809-ND	2.66	2.06	1.64	570-0100-132F
22	Green	563	16.0	2.1	10.0	350-1810-ND	.81	.61	.51	551-0207F
	Yellow	585	6.3	2.1	10.0	350-1811-ND	.81	.61	.51	551-0307F
	Red	650	10.0	2.0	10.0	350-1812-ND	.81	.61	.51	551-0407F
	Green	565	8.0	5.0	12.0	350-1813-ND	1.16	.89	.72	551-0607F
	Red	635	4.0	5.0	10.0	350-1814-ND	1.16	.89	.72	551-0507F
	Yellow	583	8.0	5.0	10.0	350-1815-ND	1.16	.89	.72	551-0707F
	Hi. Eff. Blue	428	12.0	3.5	20.0	350-1844-ND	2.85	2.22	1.80	551-0807F
	Red	635	1.8	1.8	2.0	350-1816-ND	.99	.76	.61	551-1107F
	Green	565	1.6	1.8	2.0	350-1817-ND	.99	.76	.61	551-1307F
	Yellow	583	1.6	1.9	2.0	350-1818-ND	.99	.76	.61	551-1207F
	Red/Green	635/565	5.0	2.0	10.0	350-1819-ND	1.40	1.09	.87	551-3007F
	Yellow/Green	585/565	4.3/6.3	2.1/2.1	10.0	350-1820-ND	1.15	.89	.71	551-3107F
23	Blue	470	1000	3.6	30.0	350-1846-ND	5.63	4.39	3.55	551-4007F
	White	—	1270	3.6	30.0	350-1847-ND	10.18	7.74	6.52	551-4107F
	Green	525	3400	3.5	30.0	350-1848-ND	5.21	4.05	3.28	551-4207F
24	Green	563	16.0	2.1	10.0	350-1665-ND	.89	.69	.55	551-0209F
	Yellow	585	6.3	2.1	10.0	350-1667-ND	.89	.69	.55	551-0309F
	Red	650	10.0	2.0	10.0	350-1669-ND	.89	.69	.55	551-0409F
	Orange	600	6.5	2.2	10.0	350-1682-ND	.99	.76	.61	551-2509F
	Red	635	4.0	5.0	10.0	350-1671-ND	1.28	.99	.80	551-0509F
	Green	565	8.0	5.0	12.0	350-1673-ND	1.28	.99	.80	551-0609F
	Yellow	583	8.0	5.0	10.0	350-1675-ND	1.28	.99	.80	551-0709F
	Hi. Eff. Blue	428	12.0	3.5	20.0	350-1845-ND	2.85	2.22	1.80	551-0809F
	Red	635	1.8	1.8	2.0	350-1677-ND	.99	.76	.61	551-1109F
	Yellow	583	1.6	1.9	2.0	350-1679-ND	.99	.76	.61	551-1209F
	Green	565	1.6	1.8	2.0	350-1681-ND	.99	.76	.61	551-1309F
	Red/Green	635/565	5.0	2.0	10.0	350-1684-ND	1.60	1.24	.98	551-3009F
	Yellow/Green	585/565	4.3/6.3	2.1	20.0	350-1685-ND	1.85	1.43	1.14	551-3109F
25	Green	563	16.0	2.1	10.0	350-1664-ND	3.08	2.40	1.94	551-0207-004F
	Yellow	585	6.3	2.1	10.0	350-1666-ND	3.08	2.40	1.94	551-0307-004F
	Red	650	10.0	2.0	10.0	350-1668-ND	2.86	2.21	1.76	551-0407-004F
	Red	635	4.0	5.0	10.0	350-1670-ND	4.41	3.44	2.78	551-0507-004F
	Green	565	8.0	5.0	12.0	350-1672-ND	3.88	3.02	2.45	551-0607-004F
	Yellow	583	8.0	5.0	10.0	350-1674-ND	4.41	3.44	2.78	551-0707-004F
	Red	635	1.8	1.8	2.0	350-1676-ND	3.18	2.47	2.00	551-1107-004F
	Yellow	583	1.6	1.9	2.0	350-1678-ND	4.00	3.12	2.52	551-1207-004F
	Green	565	1.6	1.8	2.0	350-1680-ND	4.00	3.12	2.52	551-1307-004F
	Red/Green	635/565	5.0	2.0	10.0	350-1683-ND	6.78	5.16	4.34	551-3007-004F
26	Red	650	10.0	2.0	10.0	350-1821-ND	1.60	1.24	.98	553-0111F
	Green	563	16.0	2.1	10.0	350-1825-ND	1.42	1.10	.88	553-0122F
	Yellow	585	6.3	2.1	10.0	350-1826-ND	1.60	1.24	.98	553-0133F
	Grn.(top)/Red(bot)	563/650	16.0/10.0	2.1/2.0	10.0	350-1822-ND	1.24	.95	.77	553-0121F
	Grn.(top)/Ylw.(bot)	563/585	16.0/6.3	2.1/2.1	10.0	350-1823-ND	1.60	1.24	.98	553-0123F
	Ylw.(top)/Grn.(bot)	585/563	6.3/16.0	2.1/2.1	10.0	350-1824-ND	1.60	1.24	.98	553-0132F
	Hi. Eff. Blue	428	12.0	3.5	20.0	350-1850-ND	5.25	4.09	3.31	553-0188F
	Red	635	1.8	1.8	2.0	350-1827-ND	1.75	1.36	1.08	553-0211F

Fig. 22

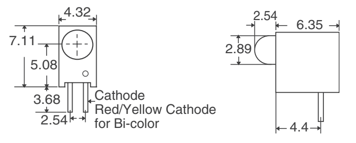

Fig. 23

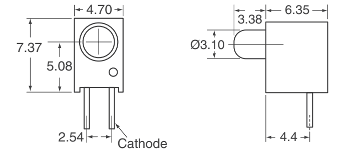

Fig. 24

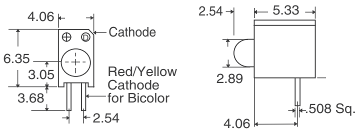

Fig. 25

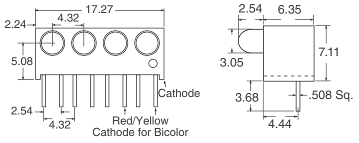

Fig. 26

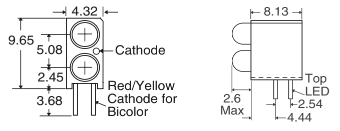

Fig. 27

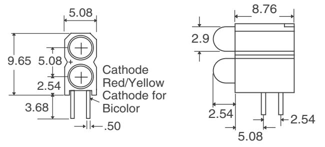

Fig. 28

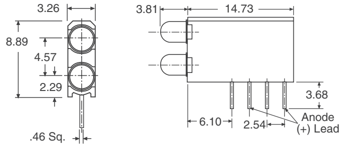

Fig. 29

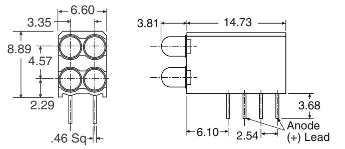

Fig. 30

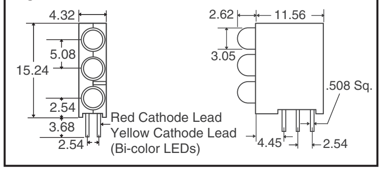

(Continued)

Dim. in mm

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
26	Green	565	1.6	1.8	2.0	350-1828-ND	1.75	1.36	1.08	553-0222F
	Yellow	583	1.6	1.9	2.0	350-1830-ND	1.75	1.36	1.08	553-0233F
	Grn.(top)/Ylw.(bot)	565/583	1.6/1.6	1.8/1.9	2.0	350-1829-ND	1.75	1.36	1.08	553-0223F
	Green	565	8.0	5.0	12.0	350-1831-ND	1.56	1.21	.96	553-0322F
	Red	635	4.0	5.0	10.0	350-1832-ND	1.88	1.45	1.16	553-0311F
	Yellow	583	8.0	5.0	10.0	350-1833-ND	1.88	1.45	1.16	553-0333F
	2x Red/Green	635/565	5.0	2.0	10.0	350-1834-ND	2.35	1.82	1.45	553-0711F
	2x Ylw./Green	585/565	4.3/6.3	2.1/2.1	10.0	350-1835-ND	2.35	1.82	1.45	553-0744F
27	Red	650	10.0	2.0	10.0	350-1698-ND	1.60	1.24	.98	553-0111-300F
	Green	563	16.0	2.1	10.0	350-1699-ND	1.60	1.24	.98	553-0122-300F
	Yellow	585	6.3	2.1	10.0	350-1700-ND	1.60	1.24	.98	553-0133-300F
	Orange	600	6.5	2.2	10.0	350-1701-ND	2.95	2.30	1.86	553-0177-300F
	Red	635	1.8	1.8	2.0	350-1702-ND	1.75	1.36	1.08	553-0211-300F
	Green	565	1.6	1.8	2.0	350-1703-ND	1.75	1.36	1.08	553-0222-300F
	Yellow	583	1.6	1.9	2.0	350-1704-ND	1.75	1.36	1.08	553-0233-300F
	Red	635	4.0	5.0	10.0	350-1705-ND	1.88	1.45	1.16	553-0311-300F
	Green	565	8.0	5.0	12.0	350-1706-ND	1.88	1.45	1.16	553-0322-300F
	Yellow	583	8.0	5.0	10.0	350-1707-ND	1.88	1.45	1.16	553-0333-300F
	2x Red/Green	635/565	5.0	2.0	10.0	350-1708-ND	2.35	1.82	1.45	553-0711-300F
	2x Yellow/Green	585/565	4.3/6.3	2.1	10.0	350-1709-ND	2.11	1.63	1.30	553-0744-300F
	Green Clear	565	12.0	2.3	10.0	350-1710-ND	1.75	1.36	1.08	553-2222-300F
28	Red	635	10.0	2.2	10.0	350-1782-ND	1.83	1.42	1.13	569-0111-100F
	Green	565	8.5	2.3	10.0	350-1783-ND	1.72	1.33	1.06	569-0112-200F
	Yellow	583	10.0	2.2	10.0	350-1784-ND	1.83	1.42	1.13	569-0113-300F
	Blue	428	12.5	3.5	20.0	350-1854-ND	5.52	4.30	3.48	569-0119-900F
29	Red	635	10.0	2.2	10.0	350-1778-ND	2.82	2.18	1.73	569-0101-111F
	Green	565	8.5	2.3	10.0	350-1779-ND	2.66	2.06	1.64	569-0102-222F
	Yellow	583	10.0	2.2	10.0	350-1780-ND	2.82	2.18	1.73	569-0103-333F
	Orange	600	6.5	2.2	10.0	350-1781-ND	2.82	2.18	1.73	569-0107-777F
	Blue	428	12.5	3.5	20.0	350-1853-ND	18.89	14.07	12.06	569-0109-999F
30	Red	635	10.0	2.2	10.0	350-1750-ND	2.78	2.15	1.71	564-0100-111F
	Red/Ylw./Grn.	635/583/565	10.0/10.0/8.5	2.2/2.2/2.3	10.0	350-1751-ND	2.78	2.15	1.71	564-0100-132F
	Green	565	8.5	2.3	10.0	350-1752-ND	2.16	1.67	1.33	564-0100-222F
	Orange	600	6.5	2.2	10.0	350-1753-ND	2.78	2.15	1.71	564-0100-777F
	Hi. Eff. Blue	428	12.0	3.5	20.0	350-1852-ND	14.08	10.49	8.99	564-0100-999F
	Red	635	1.8	1.8	2.0	350-1754-ND	2.92	2.27	1.84	564-0200-111F
	Red/Ylw./Grn.	635/583/565	1.8/1.6/1.6	1.8/1.9/1.8	2.0	350-1755-ND	2.92	2.27	1.84	564-0200-132F
	Green	565	1.6	1.8	2.0	350-1756-ND	2.59	2.00	1.60	564-0200-222F
	Red	635	4.0	5.0	10.0	350-1757-ND	2.43	1.89	1.53	564-0300-111F
	Red/Ylw./Grn.	635/583/565	4.0/8.0/8.0	5.0	10.0/10.0/12.0	350-1758-ND	2.62	2.03	1.61	564-0300-132F
	Green	565	8.0	5.0	12.0	350-1759-ND	2.98	2.32	1.88	564-0300-222F
	3x Red/Green	635/565	5.0	2.0	10.0	350-1760-ND	3.88	3.02	2.45	564-0700-111F
	3x Yellow/Green	585/565	4.3/6.3	2.1	20.0	350-1761-ND	3.70	2.89	2.34	564-0700-444F
46	Red/Green	630/560	4.0	2.0/2.1	20.0	350-1836-ND	1.96	1.51	1.21	551-3508F
31	Green	565	12.3	2.1	20.0	350-1599-ND	.81	.61	.51	550-0207F
	Yellow	585	12.3	2.1	20.0	350-1603-ND	.65	.49	.41	550-0307F
	Red	635	12.3	2.0	20.0	350-1606-ND	.81	.61	.51	550-0407F
	Green	565	8.0	5.0	12.0	350-1613-ND	.96	.74	.60	550-0707F
	Yellow	583	8.0	5.0	10.0	350-1617-ND	1.05	.81	.65	550-0807F
	Blue	470	1010	3.8	30.0	350-1843-ND	2.71	2.10	1.67	550-1007F
	Red	635	2.0	1.8	2.0	350-1620-ND	.90	.69	.56	550-1107F
	Yellow	583	1.8	1.9	2.0	350-1624-ND	.99	.76	.61	550-1207F
	Green	565	1.8	1.8	2.0	350-1627-ND	.99	.76	.61	550-1307F
	Green	563	10.0	2.1	10.0	350-1630-ND	.67	.52	.42	550-2207F
	Yellow	590	8.0	2.0	10.0	350-1633-ND	.82	.64	.51	550-2307F
	Red	650	7.0	2.2	10.0	350-1636-ND	.67	.52	.42	550-2407F
	Orange	600	7.0	1.9	10.0	350-1640-ND	.82	.64	.51	550-2507F
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1643-ND	1.53	1.18	.94	550-3007F
	Red	650	34.0	2.1	20.0	350-1648-ND	.68	.52	.43	550-5107F
	Green	563	34.0	2.2	20.0	350-1651-ND	.68	.52	.43	550-5207F
	Yellow	585	34.0	2.2	20.0	350-1654-ND	.68	.52	.43	550-5307F
	Red Clear	635	125.0	2.2	20.0	350-1657-ND	1.05	.81	.65	550-5507F
	Green Clear	565	120.0	2.3	20.0	350-1660-ND	1.05	.81	.65	550-5607F
	Yellow Clear	583	140.0	2.2	20.0	350-1663-ND	1.05	.81	.65	550-5707F
32	Green	565	12.3	2.1	20.0	350-1598-ND	.81	.61	.51	550-0205F
	Yellow	585	12.3	2.1	20.0	350-1602-ND	.81	.61	.51	550-0305F
	Red	635	12.3	2.0	20.0	350-1605-ND	.81	.61	.51	550-0405F
	Red	655	2.0	5.0	13.0	350-1609-ND	1.05	.81	.65	550-0505F
	Green	565	8.0	5.0	12.0	350-1612-ND	1.05	.81	.65	550-0705F
	Yellow	583	8.0	5.0	10.0	350-1616-ND	1.05	.81	.65	550-0805F
	Blue	470	520	4.0	20.0	350-1842-ND	2.71	2.10	1.67	550-1005F
	Red	635	2.0	1.8	2.0	350-1619-ND	.99	.76	.61	550-1105F
	Yellow	583	1.8	1.9	2.0	350-1623-ND	.99	.76	.61	550-1205F
	Green	565	1.8	1.8	2.0	350-1626-ND	.99	.76	.61	550-1305F
	Green	563	10.0	2.1	10.0	350-1629-ND	.82	.64	.51	550-2205F
	Yellow	585	6.3	2.1	10.0	350-1632-ND	.82	.64	.51	550-2305F
	Red	650	7.0	2.2	10.0	350-1635-ND	.82	.64	.51	550-2405F
	Orange	600	7.0	1.9	10.0	350-1639-ND	.82	.64	.51	550-2505F
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1642-ND	1.53	1.18	.94	550-3005F
	Red	650	34.0	2.1	20.0	350-1647-ND	.99	.76	.61	550-5105F
	Green	563	34.0	2.2	20.0	350-1650-ND	.99	.76	.61	550-5205F
	Yellow	585	34.0	2.2	20.0	350-1653-ND	.99	.76	.61	550-5305F
	Red Clear	635	125.0	2.2	20.0	350-1656-ND	1.05	.81	.65	550-5505F
	Green Clear	565	120.0	2.3	20.0	350-1659-ND	1.05	.81	.65	550-5605F
	Yellow Clear	583	140.0	2.2	20.0	350-1662-ND	1.05	.81	.65	550-5705F

Fig. 31

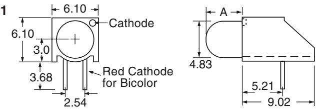

Dimension A: 3.43 for 550-0207F ~ 550-0407[F], 4.90 for 550-1007[F], 5.0 for all others

Fig. 32

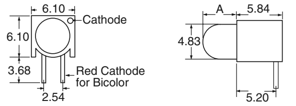

Dim. A: 3.43 for 550-0205[F] ~ 550-0405[F], 5.0 for all others

Fig. 33

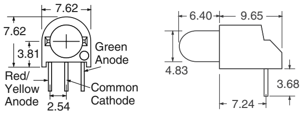

Fig. 34

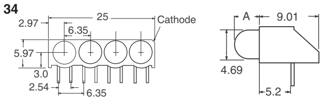

Dim. A: 3.4 for 550-0207-004[F] ~ 550-0407-004[F], 4.95 for all others

Fig. 35

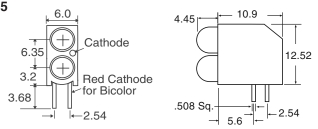

Fig. 36

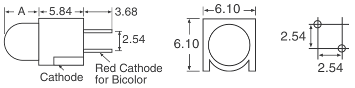

Dim. A: 3.43 for 550-0204[F] ~ 550-0404[F], 5.0 for all others

Fig. 37

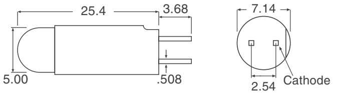

Fig. 38

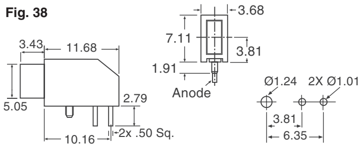

Fig. 39

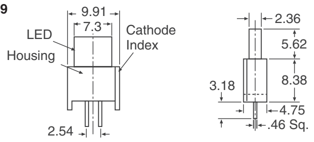

Fig. 40

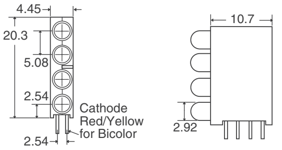

Fig. 41

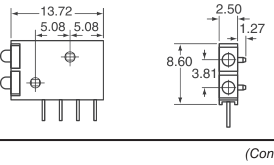

(Continued)

Dialight **LEDs** *(Cont.)*

Dim. in mm

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
33	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1644-ND	2.09	1.62	1.29	550-3509F
	Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1645-ND	2.09	1.62	1.29	550-3609F
47	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1837-ND	2.09	1.62	1.29	550-3505F
	Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1838-ND	2.09	1.62	1.29	550-3605F
34	Green	565	12.3	2.1	20.0	350-1600-ND	3.14	2.45	1.98	550-0207-004F
	Red	635	12.3	2.0	20.0	350-1607-ND	3.14	2.45	1.98	550-0407-004F
	Green	565	8.0	5.0	12.0	350-1614-ND	3.97	3.10	2.51	550-0707-004F
	Red	635	2.0	1.8	2.0	350-1621-ND	3.70	2.89	2.34	550-1107-004F
	Red	650	7.0	2.2	10.0	350-1637-ND	3.26	2.54	2.06	550-2407-004F
35	Red	650	7.0	2.2	10.0	350-1686-ND	1.32	1.02	.82	552-0211F
	Green	563	10.0	2.1	10.0	350-1687-ND	1.32	1.02	.82	552-0222F
	Yellow	590	8.0	2.0	10.0	350-1688-ND	1.60	1.24	.98	552-0233F
	Green	565	8.0	5.0	12.0	350-1689-ND	1.88	1.45	1.16	552-0322F
	Yellow	583	8.0	5.0	10.0	350-1690-ND	1.88	1.45	1.16	552-0333F
	Yellow/Green	585/565	8.7/8.7	2.1/2.1	20.0	350-1691-ND	2.35	1.82	1.45	552-0744F
	Red	650	34.0	2.1	20.0	350-1692-ND	1.75	1.36	1.08	552-0811F
	Green	563	34.0	2.2	20.0	350-1693-ND	1.75	1.36	1.08	552-0822F
	Yellow	585	34.0	2.2	20.0	350-1694-ND	1.75	1.36	1.08	552-0833F
	Red	635	2.0	1.8	2.0	350-1695-ND	1.03	.79	.64	552-0911F
	Green	565	1.8	1.8	2.0	350-1696-ND	1.48	1.14	.92	552-0922F
	Yellow	583	1.8	1.9	2.0	350-1697-ND	1.75	1.36	1.08	552-0933F
	Blue	470	1010	3.8	30.0	350-1849-ND	5.37	4.18	3.38	552-2388F
48	2x Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1839-ND	3.70	2.89	2.34	552-3511F
	2x Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1840-ND	3.70	2.89	2.34	552-3544F
36	Green	565	12.3	2.1	20.0	350-1597-ND	.92	.71	.57	550-0204F
	Yellow	585	12.3	2.1	20.0	350-1601-ND	.92	.71	.57	550-0304F
	Red	635	12.3	2.0	20.0	350-1604-ND	.92	.71	.57	550-0404F
	Green	565	8.0	5.0	12.0	350-1611-ND	1.28	.99	.80	550-0704F
	Yellow	583	8.0	5.0	10.0	350-1615-ND	1.28	.99	.80	550-0804F
	Blue	470	520	4.0	20.0	350-1841-ND	2.83	2.19	1.74	550-1004F
	Red	635	2.0	1.8	2.0	350-1618-ND	1.06	.82	.66	550-1104F
	Yellow	583	1.8	1.9	2.0	350-1622-ND	1.06	.82	.66	550-1204F
	Green	565	1.8	1.8	2.0	350-1625-ND	1.06	.82	.66	550-1304F
	Green	563	10.0	2.1	10.0	350-1628-ND	1.09	.84	.67	550-2204F
	Yellow	590	8.0	2.0	10.0	350-1631-ND	1.09	.84	.67	550-2304F
	Red	650	7.0	2.2	10.0	350-1634-ND	1.09	.84	.67	550-2404F
	Orange	600	7.0	1.9	10.0	350-1638-ND	.82	.64	.51	550-2504F
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1641-ND	2.00	1.55	1.24	550-3004F
	Red	650	34.0	2.1	20.0	350-1646-ND	1.19	.91	.74	550-5104F
	Green	563	34.0	2.2	20.0	350-1649-ND	1.19	.91	.74	550-5204F
	Yellow	585	34.0	2.2	20.0	350-1652-ND	1.19	.91	.74	550-5304F
	Red Clear	635	125.0	2.2	20.0	350-1655-ND	1.25	.97	.78	550-5504F
	Green Clear	565	120.0	2.3	20.0	350-1658-ND	1.25	.97	.78	550-5604F
	Yellow Clear	583	140.0	2.2	20.0	350-1661-ND	1.25	.97	.78	550-5704F
37	Red	635	8.0	5.0	10.0	350-1731-ND	.98	.75	.61	561-0104-100F
	Blue	470	650	3.6	20.0	350-1851-ND	8.52	6.48	5.45	561-1002-100F
	Red	635	2.0	1.8	2.0	350-1732-ND	.86	.66	.53	561-1101-100F
	Green	565	1.8	1.8	2.0	350-1734-ND	.86	.66	.53	561-1301-100F
	Yellow	583	1.8	1.9	2.0	350-1733-ND	.91	.70	.57	561-1201-100F
	Red	635	7.0	2.2	10.0	350-1735-ND	.79	.61	.49	561-2101-100F
	Green	565	32.0	2.0	20.0	350-1736-ND	1.68	1.31	1.04	561-2201-100F
	Yellow	590	10.0	2.4	20.0	350-1737-ND	.84	.65	.52	561-2301-100F
	Red Tinted	635	60.0	2.2	10.0	350-1738-ND	.84	.65	.52	561-2401-100F
	Green Tinted	565	70.0	2.3	10.0	350-1739-ND	.84	.65	.52	561-2501-100F
	Yellow Tinted	583	50.0	2.2	10.0	350-1740-ND	.84	.65	.52	561-2601-100F
	Red	650	34.0	2.1	20.0	350-1744-ND	.91	.70	.57	561-5101-100F
	Green	563	34.0	2.2	20.0	350-1745-ND	.91	.70	.57	561-5201-100F
	Yellow	585	34.0	2.2	20.0	350-1746-ND	.91	.70	.57	561-5301-100F
	Red Clear	635	125.0	2.2	20.0	350-1747-ND	.98	.75	.61	561-5501-100F
	Green Clear	565	120.0	2.3	20.0	350-1748-ND	.92	.71	.57	561-5601-100F
	Yellow Clear	583	140.0	2.2	20.0	350-1749-ND	.98	.75	.61	561-5701-100F
	Green	525	2200	3.5	20.0	350-1863-ND	4.71	3.67	2.97	561-5902-100F
	White	—	1100	3.5	20.0	350-1862-ND	4.71	3.67	2.97	561-6002-100F
38	Green	565	4.0	2.2	20.0	350-1762-ND	1.35	1.04	.84	566-0206F
	Yellow	583	3.5	2.1	20.0	350-1764-ND	1.35	1.04	.84	566-0306F
	Red	635	6.0	2.0	20.0	350-1729-ND	1.43	1.10	.89	566-0406F
49	Green	565	4.0	2.2	20.0	350-1763-ND	1.28	.99	.80	566-0207F
	Yellow	583	3.5	2.1	20.0	350-1765-ND	1.28	.99	.80	566-0307F
	Red	635	7.4	2.0	20.0	350-1730-ND	1.36	1.05	.84	566-0407F
50	Red/Green	635/565	3.5/4.0	1.9/2.1	20.0	350-1766-ND	2.44	1.89	1.50	566-3507F
39	Red	635	5.0	1.9	20.0	350-1741-ND	1.79	1.39	1.10	561-4101-055F
	Green	565	2.5	2.3	20.0	350-1742-ND	1.79	1.39	1.10	561-4201-055F
	Yellow	583	5.0	2.1	20.0	350-1743-ND	1.79	1.39	1.10	561-4301-055F
40	Red	635	10.0	2.2	10.0	350-1767-ND	3.26	2.54	2.06	568-0101-111F
	Green	565	8.5	2.3	10.0	350-1768-ND	3.26	2.54	2.06	568-0102-222F
	Grn./Ylw./Grn./Ylw.	565/583	8.5/10.0	2.1/2.2	10.0	350-1769-ND	3.26	2.54	2.06	568-0102-323F
	Orange	600	6.5	2.2	10.0	350-1770-ND	3.26	2.54	2.06	568-0107-777F
	Red	635	1.8	1.8	2.0	350-1771-ND	3.63	2.83	2.29	568-0201-111F
	Green	565	1.6	1.8	2.0	350-1772-ND	3.63	2.83	2.29	568-0202-222F
	Grn./Ylw./Grn./Ylw.	565/583	1.6	1.8/1.9	2.0	350-1773-ND	3.63	2.83	2.29	568-0202-323F
	Red	635	4.0	5.0	10.0	350-1774-ND	3.88	3.02	2.45	568-0301-111F
	Green	565	8.0	5.0	12.0	350-1775-ND	3.88	3.02	2.45	568-0302-222F
	Bi-Color Red/Green	635/565	5.0	2.0	10.0	350-1776-ND	4.84	3.77	3.05	568-0701-111F
	Bi-Color Ylw./Grn.	585/565	4.3/6.3	2.1	10.0	350-1777-ND	4.84	3.77	3.05	568-0704-444F
41	Red	635	12.6	2.0	30.0	350-1864-ND	1.72	1.33	1.06	571-0111F
	Green	565	8.7	2.1	30.0	350-1865-ND	1.72	1.33	1.06	571-0122F
	Yellow	585	12.06	2.1	20.0	350-1866-ND	1.72	1.33	1.06	571-0133F
	Yellow/Green	585/565	12.6/8.7	2.1/2.1	20.0/30.0	350-1867-ND	1.72	1.33	1.06	571-0132F
	Red/Green	635/565	12.6/8.7	2.0/2.1	30.0/30.0	350-1868-ND	1.72	1.33	1.06	571-0112F

Fig. 42

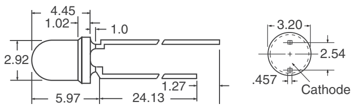

Fig. 43

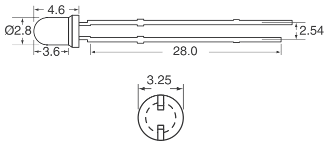

Fig. 44

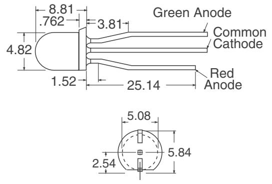

Fig. 45

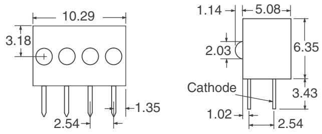

Fig. 46

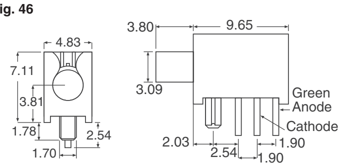

Fig. 47

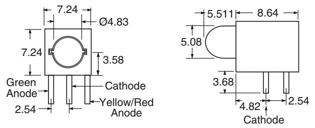

Fig. 48

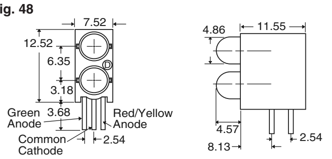

Fig. 49

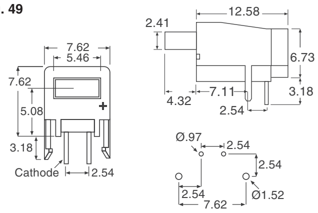

Fig. 50

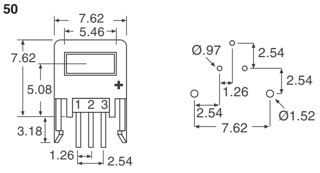

Dialight

LED Arrays

RoHS COMPLIANT

Fig.	Description	Digi-Key Part No.	Price Each			Dialight Part No.
			1	25	100	
	LumiSpot™					
1	3x1W, Blue, 48mm	350-1985-ND	43.36	35.16	33.40	LSP3-B-XXX
	3x1W, Green, 48mm	350-1986-ND	43.36	35.16	33.40	LSP3-G-XXX
	3x1W, Red, 48mm	350-1987-ND	40.84	33.12	31.46	LSP3-R-XXX
	3x1W, Warm White, 48mm	350-1988-ND	47.14	38.23	36.32	LSP3-WW-XXX
	3x1W, White, 48mm	350-1989-ND	47.14	38.23	36.32	LSP3-W-XXX
2	6x1W, Blue, 69mm	350-1990-ND	67.34	54.84	52.91	LSP6-B-XXX
	6x1W, Green, 69mm	350-1991-ND	67.34	54.84	52.91	LSP6-G-XXX
	6x1W, Red, 69mm	350-1992-ND	62.03	50.51	48.74	LSP6-R-XXX
	6x1W, Warm White, 69mm	350-1993-ND	71.19	60.04	57.04	LSP6-WW-XXX
	6x1W, White, 69mm	350-1994-ND	71.19	60.04	57.04	LSP6-W-XXX
3	9x1W, Blue, 90mm	350-1995-ND	76.26	69.91	63.56	LSP9-B-XXX
	9x1W, Green, 90mm	350-1996-ND	76.26	69.91	63.56	LSP9-G-XXX
	9x1W, Red, 90mm	350-1997-ND	77.09	65.02	61.77	LSP9-R-XXX
	9x1W, Warm White, 90mm	350-1998-ND	86.17	78.99	71.81	LSP9-WW-XXX
	9x1W, White, 90mm	350-1999-ND	86.17	78.99	71.81	LSP9-W-XXX
	Colour™ Engine RGB					
4	3x1W, Circular	350-1928-ND	61.00	49.68	47.93	CE3C-RGB-XXX
5	6x1W, Circular	350-1929-ND	98.82	90.59	82.35	CE6C-RGB-XXX
6	12x1W, Circular	350-1923-ND	136.34	130.71	128.15	CE12C-RGB-XXX
7	12x1W, Linear	350-1924-ND	126.43	115.14	112.89	CE12L-RGB-XXX
8	18x1W, Circular	350-1925-ND	180.60	173.14	169.74	CE18C-RGB-XXX
9	18x1W, Linear	350-1926-ND	168.52	161.55	158.39	CE18L-RGB-XXX
10	36x1W, Circular	350-1927-ND	356.14	341.41	334.72	CE36C-RGB-XXX
	LinkLED™ 1W on MCPCB with Connectors					
11	Amber	350-1946-ND	15.71	11.71	10.04	LK1-1-A
	Blue	350-1947-ND	17.00	12.67	10.86	LK1-1-B
	Green	350-1948-ND	17.01	12.67	10.86	LK1-1-G
	Red	350-1949-ND	15.71	11.71	10.04	LK1-1-R
	White	350-1950-ND	18.93	14.10	12.09	LK1-1-W
	Warm White	350-1951-ND	18.93	14.10	12.09	LK1-1-WW
	LinkLED™					
—	Edge lighting, Red/Green/Blue	350-1952-ND	37.23	30.19	28.68	LK-3-EL-RGB
	Red/Green/Blue	350-1953-ND	40.68	32.16	28.09	LK-3-RGB
	Red/Green/Blue, Modular	350-1956-ND	46.61	37.80	35.91	LKOP-RGB-XXX
	LumiLine™ with Holders					
12	3x1W, Blue	350-1957-ND	45.58	36.96	35.12	LLN3-B-XXX
	3x1W, Green	350-1958-ND	45.58	36.96	35.12	LLN3-G-XXX
	3x1W, Red	350-1959-ND	42.99	34.86	33.12	LLN3-R-XXX
	3x1W, Warm White	350-1960-ND	49.47	40.12	38.11	LLN3-WW-XXX
	3x1W, White	350-1961-ND	49.47	40.12	38.11	LLN3-W-XXX
13	9x1W, Blue	350-1962-ND	78.76	72.20	65.63	LLN9-B-XXX
	9x1W, Green	350-1963-ND	78.76	72.20	65.63	LLN9-G-XXX
	9x1W, Red	350-1964-ND	83.40	76.46	69.51	LLN9-R-XXX
	9x1W, Warm White	350-1965-ND	88.66	81.28	73.89	LLN9-WW-XXX
	9x1W, White	350-1966-ND	88.66	81.28	73.89	LLN9-W-XXX
	LumiLight™					
14	3x1W, Amber	350-1967-ND	34.41	27.21	23.76	LLT3-A
	3x1W, Blue	350-1968-ND	37.49	29.64	25.89	LLT3-B
	3x1W, Green	350-1969-ND	37.49	29.64	25.89	LLT3-G
	3x1W, Red	350-1970-ND	34.41	27.21	23.76	LLT3-R
	3x1W, White	350-1971-ND	37.10	30.09	28.58	LLT3-W
	3x1W, Warm White	350-1972-ND	37.10	30.09	28.58	LLT3-WW
15	6x1W, Amber	350-1973-ND	47.78	38.75	36.81	LLT6-A
	6x1W, Blue	350-1974-ND	53.21	43.15	40.99	LLT6-B
	6x1W, Green	350-1975-ND	53.21	43.15	40.99	LLT6-G
	6x1W, Red	350-1976-ND	47.78	38.75	36.81	LLT6-R
	6x1W, White	350-1977-ND	58.04	47.27	45.61	LLT6-W
	6x1W, Warm White	350-1978-ND	58.04	47.27	45.61	LLT6-WW
16	9x1W, Amber	350-1979-ND	61.72	50.26	48.50	LLT9-A
	9x1W, Blue	350-1980-ND	69.43	56.54	54.56	LLT9-B
	9x1W, Green	350-1981-ND	69.43	56.54	54.56	LLT9-G
	9x1W, Red	350-1982-ND	61.72	50.26	48.50	LLT9-R
	9x1W, White	350-1983-ND	76.82	64.79	61.55	LLT9-W
	9x1W, Warm White	350-1984-ND	76.82	64.79	61.55	LLT9-WW

Fig. 1

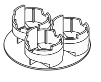

Fig. 2

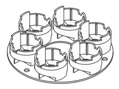

Fig. 3

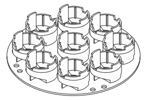

Fig. 4

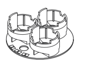

Fig. 5

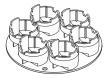

Fig. 6

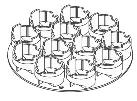

Fig. 7

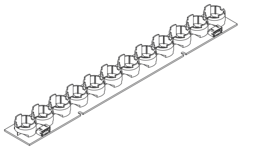

Fig. 8

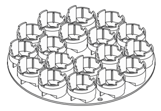

Fig. 9

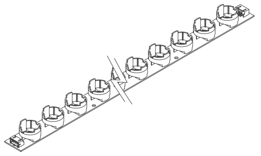

Fig. 10

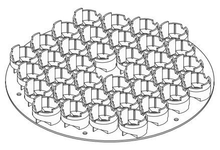

Fig. 11

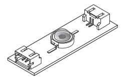

Fig. 12

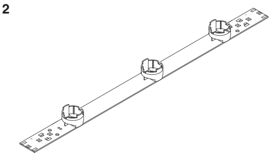

Fig. 13

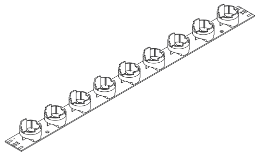

Fig. 14

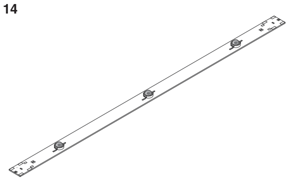

Fig. 15

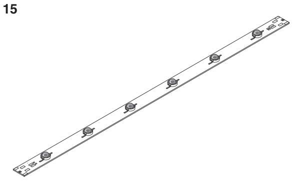

Fig. 16

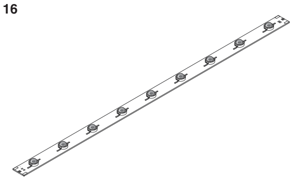

Accessories

RoHS COMPLIANT

Description	Digi-Key Part No.	Price Each			Dialight Part No.
		1	25	100	
Colourdriver™ Junction Box 1 in 3 out	350-1917-ND	21.79	17.23	15.05	CDJB3
Colourdriver Junction Box 1 in 7 out	350-1918-ND	28.75	22.73	19.86	CDJB7
Colourdriver Junction Box	350-1919-ND	5.70	4.44	3.59	CDJB-BL
Colourdriver Cable Male to Wire End	350-1920-ND	21.72	17.17	15.00	CDL-M3E
Colourdriver Cable Male to Male, 3 Meters, 8-way	350-1921-ND	28.43	22.47	19.63	CDL-M3M
Linking Cable Female to Female, 2-way, 100mm	350-1930-ND	1.44	1.11	.89	CT2-100
Linking Cable Female to Female, 2-way, 200mm	350-1931-ND	1.45	1.13	.90	CT2-200
Linking Cable 2-way Common Connector	350-1932-ND	1.74	1.35	1.07	CT2-C
Linking Cable Female to Flying Lead, 300mm	350-1933-ND	1.54	1.19	.95	CT2-E300
Linking Cable Female to Female, 4-way, 100mm	350-1934-ND	2.80	2.17	1.73	CT4-100
Linking Cable Female to Female, 4-way, 200mm	350-1935-ND	2.86	2.23	1.81	CT4-200
Linking Cable 4-way Common Connector	350-1936-ND	2.58	2.00	1.59	CT4-C
Linking Cable 4-way Plug to 8-way, Molex Female	350-1937-ND	6.49	4.94	4.16	CT4-MLXF
Linking Cable 4-way Plug to 8-way Molex Male	350-1938-ND	8.76	6.66	5.61	CT4-MLXM
Luxeon L2 Optics Evaluation Kit with Holder	350-1939-ND	44.40	36.00	34.20	L2-KL1
Osram Optics Eval. Kit for Golden Dragon with Holder	350-1940-ND	44.40	36.00	34.20	L2-KL2
Luxeon K2 Optics Evaluation Kit with Holder	350-1941-ND	44.40	36.00	34.20	L2-KL3
OPGD Optics Eval. Kit for Golden Dragon Emitters	350-1942-ND	39.38	31.13	27.19	L2-KL4-GD
Cree XLamp Optics Eval. Kit for 7090 Emitters	350-1943-ND	39.38	31.13	27.19	L2-KL5-XL
Nichia Optics Evaluation Kit for Jupitor Emitters	350-1944-ND	39.38	31.13	27.19	L2-KL6-IO
Luxeon OPK2 Optics Evaluation Kit	350-1945-ND	39.38	31.13	27.19	L2-KL7-K2
Flexible Heat Sink 12 Module, 1.2 Meter	350-1954-ND	33.95	26.84	23.45	LK-HS12
Flexible Heat Sink 9 Module, 1 Meter	350-1955-ND	26.06	20.60	18.00	LK-HS9

Description	Digi-Key Part No.	Price Each			Dialight Part No.
		1	25	100	
Luxeon Emitter/Star 1W Optic Holder, Black	350-2006-ND	.57	.43	.36	OH-ES1-BK
Luxeon Emitter/Star 1W Optic Holder, Clear	350-2007-ND	.57	.43	.36	OH-ES1-CL
Luxeon Emitter/Star 1W Optic Holder, White	350-2008-ND	.57	.43	.36	OH-ES1-WH
Golden Dragon Optic Holder, Black	350-2009-ND	.57	.43	.36	OH-GD-BK
Golden Dragon Optic Holder, Clear	350-2010-ND	.57	.43	.36	OH-GD-CL
Golden Dragon Optic Holder, White	350-2011-ND	.57	.43	.36	OH-GD-WH
Luxeon K2 Emitter Optic Holder, White	350-2012-ND	.57	.43	.36	OH-K2-WH
20mm Series Spot Optic 5° F-Form Lens	350-2013-ND	1.47	1.14	.91	OP-005
20mm Series Medium Optic 15° F-Form Lens	350-2014-ND	1.47	1.14	.91	OP-015
20mm Series Wide Optic 25° F-Form Lens	350-2015-ND	1.47	1.14	.91	OP-025
20mm Series Oval Optic 5° x 20° F-Form Lens	350-2016-ND	1.47	1.14	.91	OP-520
Single Spot Base Module 2°	350-2017-ND	2.57	1.99	1.58	OPGD-1-002
Triple Spot Base Module 11°	350-2018-ND	4.74	3.69	2.99	OPIO-3-011
Luxeon K2 Spot Base Module 3°	350-2019-ND	2.57	1.99	1.58	OPK2-1-003
Luxeon K2 Triple Spot Base Module 6°	350-2020-ND	4.74	3.69	2.99	OPK2-3-006
Lens, Spot Base Module 6°, XLamp	350-2191-ND ***NEW!***	2.12	1.58	1.36	OPTX-1-006
Lens, Oval, Sub 8° x 25°, XLamp	350-2192-ND ***NEW!***	.52	.39	.33	OPAA-1-OSL
Lens, Wide, Sub 16°, XLamp	350-2193-ND ***NEW!***	.52	.39	.33	OPAA-1-WSL
Lens, Spot Base Rebel, 6°	350-2194-ND ***NEW!***	1.85	1.43	1.14	OPC1-1-SPOT
Lens, Base Module Medium, Rebel, 15°	350-2195-ND ***NEW!***	1.85	1.43	1.14	OPC1-1-MED
Lens, Base Module Oval, Rebel, 8° x 25°	350-2196-ND ***NEW!***	1.85	1.43	1.14	OPC1-1-OVAL
Lens, 11mm Series, Spot Base Module 7°	350-2197-ND ***NEW!***	1.85	1.43	1.14	OPC1-1-COL
Lens, 11mm Series, Wide, 13°	350-2198-ND ***NEW!***	1.85	1.43	1.14	OPC1-2-COL
Linking Cable RJ45 to RJ45, 0.5 Meter	350-2024-ND	3.67	2.86	2.32	RJ45-05
Linking Cable RJ45 to RJ45, 2.0 Meter	350-2025-ND	5.49	4.27	3.46	RJ45-2
Linking Cable RJ45 to RJ45, 5.0 Meter	350-2026-ND	12.21	9.28	7.82	RJ45-5
Converter Lead RJ45 to XLR, Female	350-2027-ND	18.40	13.71	11.75	RJ45-XLRF
Converter Lead RJ45 to XLR, Male	350-2028-ND	18.40	13.71	11.75	RJ45-XLRM

Drivers

Description	Digi-Key Part No.	Price Each			Dialight Part No.
		1	25	100	
Colourdriver™36, Three Channel, RGB LED Driver	350-1922-ND	146.30	140.25	137.50	CDU-L-3-35-DMX
Microdriver™4, 4x1W, High Powered LED 350mA	350-2000-ND	20.83	15.52	13.30	MDU4-SC-35
Microdriver 9, 9x1W, High Powered LED 350mA or 4x3W LED at 700mA	350-2001-ND	31.15	24.63	21.51	MDU9-SC-3570
Microdriver MLV3™, 3x1W, Non-Dim, 350mA	350-2002-ND	23.54	18.61	16.26	MLV3-C-35
Microdriver MLV3, 3x1W, Non-Dim, 700mA	350-2003-ND	23.54	18.61	16.26	MLV3-C-70
MicroLV9™, 9x1W, Dimmable, 350mA	350-2004-ND	48.19	39.08	37.12	MLV9-C-35
MicroLV9, 9x1W, Dimmable, 700mA	350-2005-ND	48.19	39.08	37.12	MLV9-C-70
Colourdriver RF, LED Color Mixing	350-2021-ND	117.19	106.73	104.64	RFCC-MASTER
Colourdriver TX, Remote Control	350-2022-ND	70.38	59.36	56.40	RFCC-REMOTE
Colourdriver SL, Slave	350-2023-ND	69.87	56.90	54.90	RFCC-SLAVE

Panel Mount LEDs

Dim. in mm

Fig.	Lens	Housing	Color	Wavelength Peak (nm)	Typical Io (fL)	Typical Vf (V)	Typical If (mA)	Digi-Key Part No.	Price Each			Dialight Part No.
									1	25	100	
1	Flat	Nickel Plated Brass	White	—	4,000	12.0 DC	60.0	350-1415-ND	43.50	35.28	33.52	556-1003-304
			White	—	4,000	24.0 DC	32.0	350-1416-ND	43.50	35.28	33.52	556-1004-304
			White	—	1,800	125.0 AC	9.5	350-1417-ND	43.50	35.28	33.52	556-1005-304
			Red	639	3,000	12.0 DC	95.0	350-1418-ND	35.91	28.39	24.80	556-1503-304
			Red	639	3,000	24.0 DC	46.0	350-1419-ND	35.91	28.39	24.80	556-1504-304
			Red	639	1,200	125.0 AC	10.5	350-1420-ND	35.91	28.39	24.80	556-1505-304
			Green	525	4,000	12.0 DC	60.0	350-1421-ND	41.53	32.83	28.68	556-1603-304
			Green	525	4,000	24.0 DC	32.0	350-1422-ND	41.53	32.83	28.68	556-1604-304
			Green	525	1,800	125.0 AC	9.5	350-1423-ND	41.53	32.83	28.68	556-1605-304
			Yellow	594	3,000	12.0 DC	95.0	350-1424-ND	35.91	28.39	24.80	556-1703-304
			Yellow	594	3,000	24.0 DC	46.0	350-1425-ND	35.91	28.39	24.80	556-1704-304
			Yellow	594	1,200	125.0 AC	10.5	350-1426-ND	35.91	28.39	24.80	556-1705-304
			Blue	470	1,200	12.0 DC	60.0	350-1427-ND	43.50	35.28	33.52	556-1803-304
			Blue	470	1,200	24.0 DC	32.0	350-1428-ND	43.50	35.28	33.52	556-1804-304
			Blue	470	500.0	125.0 AC	9.5	350-1429-ND	43.50	35.28	33.52	556-1805-304
2	Dome	Nickel Plated Brass	White	—	1,200	12.0 DC	60.0	350-1430-ND	43.50	35.28	33.52	556-3003-304
			White	—	1,200	24.0 DC	31.0	350-1431-ND	43.50	35.28	33.52	556-3004-304
			White	—	700.0	125.0 AC	9.5	350-1432-ND	43.50	35.28	33.52	556-3005-304
			Red	639	1,300	12.0 DC	95.0	350-1433-ND	35.91	28.39	24.80	556-3503-304
			Red	639	1,300	24.0 DC	46.0	350-1434-ND	35.91	28.39	24.80	556-3504-304
			Red	639	500.0	125.0 AC	10.5	350-1435-ND	35.91	28.39	24.80	556-3505-304
			Green	525	1,800	12.0 DC	60.0	350-1436-ND	41.53	32.83	28.68	556-3603-304
			Green	525	1,800	24.0 DC	32.0	350-1437-ND	41.53	32.83	28.68	556-3604-304
			Green	525	700.0	125.0 AC	9.5	350-1438-ND	41.53	32.83	28.68	556-3605-304
			Yellow	594	1,300	12.0 DC	95.0	350-1439-ND	35.91	28.39	24.80	556-3703-304
			Yellow	594	1,300	24.0 DC	46.0	350-1440-ND	35.91	28.39	24.80	556-3704-304
			Yellow	594	500.0	125.0 AC	10.5	350-1441-ND	35.91	28.39	24.80	556-3705-304
			Blue	470	480.0	12.0 DC	60.0	350-1442-ND	43.50	35.28	33.52	556-3803-304
			Blue	470	480.0	24.0 DC	32.0	350-1443-ND	43.50	35.28	33.52	556-3804-304
			Blue	470	180.0	125.0 AC	9.5	350-1444-ND	43.50	35.28	33.52	556-3805-304
3	Dome	White Poly-carbonate	White	—	700.0	5.0 DC	16.0	350-1445-ND	15.70	11.70	10.03	557-1002-203
			White	—	700.0	12.0 DC	16.0	350-1446-ND	15.70	11.70	10.03	557-1003-203
			White	—	700.0	24.0 DC	16.0	350-1447-ND	15.70	11.70	10.03	557-1005-203
			Red/Green	635/525	400/1,000	5.0 DC	70.0/16.0	350-1448-ND	16.96	12.63	10.83	557-1412-203
			Yellow/Green	592/525	400/1,000	5.0 DC	70.0/16.0	350-1449-ND	16.15	12.03	10.31	557-1432-203
			Red	660	1,000	5.0 DC	80.0	350-1450-ND	14.19	10.57	9.06	557-1502-203
			Red	660	1,000	12.0 DC	20.0	350-1451-ND	14.19	10.57	9.06	557-1503-203
			Red	660	1,000	24.0 DC	20.0	350-1452-ND	14.19	10.57	9.06	557-1505-203
			Green	525	1,000	5.0 DC	16.0	350-1453-ND	15.70	11.70	10.03	557-1602-203
			Green	525	1,000	12.0 DC	16.0	350-1454-ND	15.70	11.70	10.03	557-1603-203
			Green	525	1,000	24.0 DC	16.0	350-1455-ND	15.70	11.70	10.03	557-1605-203
			Yellow	592	1,000	5.0 DC	80.0	350-1456-ND	14.19	10.57	9.06	557-1702-203
			Yellow	592	1,000	12.0 DC	20.0	350-1457-ND	14.19	10.57	9.06	557-1703-203
			Yellow	592	1,000	24.0 DC	20.0	350-1458-ND	14.19	10.57	9.06	557-1705-203
			Blue	470	250.0	5.0 DC	16.0	350-1459-ND	15.70	11.70	10.03	557-1802-203
			Blue	470	250.0	12.0 DC	16.0	350-1460-ND	15.70	11.70	10.03	557-1803-203
			Blue	470	250.0	24.0 DC	16.0	350-1461-ND	15.70	11.70	10.03	557-1805-203
4	Dome	Valox	Red	650	10.0‡	2.0	10.0	350-2117-ND◆	1.73	1.34	1.07	558-0101-007F
			Red	635	29.0‡	5.0	12.0	350-2118-ND◆	2.09	1.62	1.29	558-0102-007F
			Green	563	16.0‡	2.1	10.0	350-2119-ND◆	1.73	1.34	1.07	558-0201-007F
			Green	565	19.0‡	5.0	12.0	350-2120-ND◆	2.09	1.62	1.29	558-0202-007F
			Yellow	585	10.0‡	2.1	10.0	350-2121-ND◆	1.73	1.34	1.07	558-0301-007F
			Yellow	585	12.6‡	5.0	12.0	350-2122-ND◆	2.09	1.62	1.29	558-0302-007F
			Blue	428	13.0	3.5	10.0	350-1591-ND◆	3.40	2.65	2.14	558-0803-007F
			Red/Green	635/565	4.8/4.8‡	2.0/2.1	20.0	350-2123-ND◆	2.33	1.80	1.43	558-3001-007F
			Yellow/Green	585/565	4.3/6.8‡	2.1	10.0	350-2124-ND◆	2.33	1.80	1.43	558-3201-007F
			Blue	464	460.0	3.5	20.0	350-1592-ND◆	3.40	2.65	2.14	558-6003-007F
			White	—	850.0	3.6	20.0	350-1593-ND◆	3.40	2.65	2.14	558-6403-007F
5	Dome	Valox	Red	655	2.0‡	5.0	13.0	350-2125-ND◆	1.94	1.51	1.20	559-0102-007F
			Red	655	2.0‡	12.0	13.0	350-2126-ND◆	1.94	1.51	1.20	559-0103-007F
			Green	565	8.0‡	5.0	12.0	350-2127-ND◆	1.94	1.51	1.20	559-0202-007F
			Green	565	4.0‡	12.0	13.0	350-2128-ND◆	1.94	1.51	1.20	559-0203-007F
			Yellow	583	8.0‡	5.0	10.0	350-2129-ND◆	1.94	1.51	1.20	559-0302-007F
			Yellow	583	8.0‡	12.0	13.0	350-2130-ND◆	1.94	1.51	1.20	559-0303-007F
			Red	650	34.0‡	2.1	20.0	350-2133-ND◆	1.64	1.27	1.01	559-5101-007F
			Green	563	34.0‡	2.2	20.0	350-2134-ND◆	1.64	1.27	1.01	559-5201-007F

◆ ***RoHS Compliant*** ‡ Typical Intensity (mcd)

Fig. 1

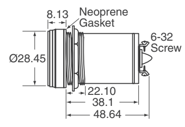

NEMA 4X IP66

Fig. 2

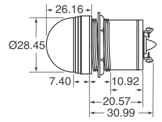

NEMA 4X IP66

Fig. 3

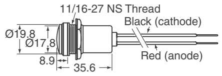

Bi-Color has 3 leads

Fig. 4

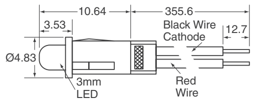

Fig. 5

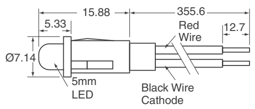

Fig. 6 ***NEW!***

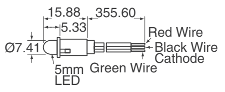

(Continued)

Fig.	Lens	Housing	Color	Wavelength pk(nm)	Typ. Io (fL)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
5	Dome	Valox	Yellow	583	34.0‡	2.2	20.0	350-2135-ND◆	1.64	1.27	1.01	559-5301-007F
			Blue	468	650.0	3.6	20.0	350-1594-ND◆	8.52	6.48	5.46	559-6001-007F
			Green	520	2200.0	3.5	20.0	350-1595-ND◆	8.52	6.48	5.46	559-6201-007F
			White	—	600.0	3.5	20.0	350-1596-ND◆	8.52	6.48	5.46	559-6401-007F
6	Dome	Valox	Red/Green	635/565	5/8‡	2.1/2.3	10.0	350-2131-ND◆	3.54	2.76	2.23	559-3501-007F
			Yellow/Green	583/565	5/8‡	1.6/1.6	10.0	350-2132-ND◆	3.54	2.76	2.23	559-3601-007F
7	Dome	Chrome Plated	Red	630	8.0	6.0	15.0	350-1869-ND◆	4.17	3.25	2.63	607-1112-120F
			Red	630	8.0	12.0	15.0	350-1870-ND◆	4.17	3.25	2.63	607-1112-130F
			Green	560	8.0	6.0	15.0	350-1871-ND◆	4.43	3.45	2.79	607-1212-120F
			Green	560	8.0	12.0	15.0	350-1872-ND◆	4.43	3.45	2.79	607-1212-130F
			Yellow	587	2.4	6.0	15.0	350-1466-ND	4.16	3.24	2.62	607-1312-120
			Yellow	587	2.4	6.0	15.0	350-1873-ND◆	4.43	3.45	2.79	607-1312-120F
			Yellow	587	2.4	12.0	15.0	350-1874-ND◆	4.43	3.45	2.79	607-1312-130F
8	Dome	Chrome Plated	Red	630	8.0	6.0	15.0	350-1875-ND◆	4.17	3.25	2.63	607-2112-120F
			Red	630	8.0	12.0	15.0	350-1876-ND◆	4.17	3.25	2.63	607-2112-130F
			Green	560	8.0	6.0	15.0	350-1877-ND◆	4.43	3.45	2.79	607-2212-120F
			Green	560	8.0	12.0	15.0	350-1878-ND◆	4.43	3.45	2.79	607-2212-130F
			Yellow	587	2.4	6.0	15.0	350-1472-ND	4.43	3.45	2.79	607-2312-120
			Yellow	587	2.4	6.0	15.0	350-1879-ND◆	4.43	3.45	2.79	607-2312-120F
			Yellow	587	2.4	12.0	15.0	350-1880-ND◆	4.43	3.45	2.79	607-2312-130F
9	Dome	Chrome Plated	Red	635	60.0	6.0	15.0	350-1474-ND	3.78	2.94	2.38	609-1112-120
			Red	635	60.0	6.0	15.0	350-1881-ND◆	3.95	3.08	2.49	609-1112-120F
			Red	635	60.0	12.0	15.0	350-1882-ND◆	3.95	3.08	2.49	609-1112-130F
			Red	635	60.0	24.0	15.0	350-1883-ND◆	3.95	3.08	2.49	609-1112-140F
			Green	565	112.0	6.0	15.0	350-1480-ND	3.78	2.94	2.38	609-1212-120
			Green	565	112.0	6.0	15.0	350-1887-ND◆	3.95	3.08	2.49	609-1212-120F
			Green	565	112.0	12.0	15.0	350-1888-ND◆	3.95	3.08	2.49	609-1212-130F
			Green	565	112.0	24.0	15.0	350-1889-ND◆	3.95	3.08	2.49	609-1212-140F
			Yellow	585	90.0	6.0	15.0	350-1893-ND◆	3.95	3.08	2.49	609-1312-120F
			Yellow	585	90.0	12.0	15.0	350-1894-ND◆	3.95	3.08	2.49	609-1312-130F
			Yellow	585	90.0	24.0	15.0	350-1895-ND◆	3.95	3.08	2.49	609-1312-140F
	Dome	Black	Red	635	60.0	6.0	15.0	350-1884-ND◆	4.27	3.32	2.69	609-1122-120F
			Red	635	60.0	12.0	15.0	350-1885-ND◆	4.27	3.32	2.69	609-1122-130F
			Red	635	60.0	24.0	15.0	350-1479-ND	4.27	3.32	2.69	609-1122-140
			Red	635	60.0	24.0	15.0	350-1886-ND◆	4.27	3.32	2.69	609-1122-140F
			Green	565	112.0	6.0	15.0	350-1890-ND◆	4.27	3.32	2.69	609-1222-120F
			Green	565	112.0	12.0	15.0	350-1891-ND◆	4.27	3.32	2.69	609-1222-130F
			Green	565	112.0	24.0	15.0	350-1485-ND	4.27	3.32	2.69	609-1222-140
			Green	565	112.0	24.0	15.0	350-1892-ND◆	4.27	3.32	2.69	609-1222-140F
			Yellow	585	90.0	6.0	15.0	350-1896-ND◆	4.27	3.32	2.69	609-1322-120F
			Yellow	585	90.0	12.0	15.0	350-1490-ND	4.08	3.18	2.58	609-1322-130
			Yellow	585	90.0	12.0	15.0	350-1897-ND◆	4.27	3.32	2.69	609-1322-130F
			Yellow	585	90.0	24.0	15.0	350-1898-ND◆	4.27	3.32	2.69	609-1322-140F
10	Dome	Chrome Plated	Red	635	60.0	6.0	15.0	350-1899-ND◆	3.95	3.08	2.49	609-2112-120F
			Red	635	60.0	12.0	15.0	350-1900-ND◆	3.95	3.08	2.49	609-2112-130F
			Red	635	60.0	24.0	15.0	350-1901-ND◆	3.95	3.08	2.49	609-2112-140F
			Green	565	112.0	6.0	15.0	350-1905-ND◆	3.95	3.08	2.49	609-2212-120F
			Green	565	112.0	12.0	15.0	350-1906-ND◆	3.95	3.08	2.49	609-2212-130F
			Green	565	112.0	24.0	15.0	350-1907-ND◆	3.95	3.08	2.49	609-2212-140F
			Yellow	585	90.0	6.0	15.0	350-1911-ND◆	3.95	3.08	2.49	609-2312-120F
			Yellow	585	90.0	12.0	15.0	350-1912-ND◆	3.95	3.08	2.49	609-2312-130F
			Yellow	585	90.0	24.0	15.0	350-1913-ND◆	3.95	3.08	2.49	609-2312-140F
	Dome	Black	Red	635	60.0	6.0	15.0	350-1495-ND	4.27	3.32	2.69	609-2122-120
			Red	635	60.0	6.0	15.0	350-1902-ND◆	4.27	3.32	2.69	609-2122-120F
			Red	635	60.0	12.0	15.0	350-1903-ND◆	4.27	3.32	2.69	609-2122-130F
			Red	635	60.0	24.0	15.0	350-1497-ND	4.08	3.18	2.58	609-2122-140
			Red	635	60.0	24.0	15.0	350-1904-ND◆	4.27	3.32	2.69	609-2122-140F
			Green	565	112.0	6.0	15.0	350-1908-ND◆	4.27	3.32	2.69	609-2222-120F
			Green	565	112.0	12.0	15.0	350-1502-ND	4.08	3.18	2.58	609-2222-130
			Green	565	112.0	12.0	15.0	350-1909-ND◆	4.27	3.32	2.69	609-2222-130F
			Green	565	112.0	24.0	15.0	350-1910-ND◆	4.27	3.32	2.69	609-2222-140F
			Yellow	585	90.0	6.0	15.0	350-1914-ND◆	4.27	3.32	2.69	609-2322-120F
			Yellow	585	90.0	12.0	15.0	350-1508-ND	4.27	3.32	2.69	609-2322-130
			Yellow	585	90.0	12.0	15.0	350-1915-ND◆	4.27	3.32	2.69	609-2322-130F
			Yellow	585	90.0	24.0	15.0	350-1916-ND◆	4.27	3.32	2.69	609-2322-140F
11	Flat	Black	Red	635	60.0	6.0	15.0	350-2099-ND◆	4.49	3.50	2.83	612-3132-120F
			Red	635	60.0	12.0	15.0	350-2100-ND◆	4.49	3.50	2.83	612-3132-130F
			Red	635	60.0	24.0	15.0	350-2101-ND◆	4.49	3.50	2.83	612-3132-140F
			Green	565	110.0	6.0	15.0	350-2102-ND◆	4.49	3.50	2.83	612-3232-120F
			Green	565	110.0	12.0	15.0	350-2103-ND◆	4.49	3.50	2.83	612-3232-130F
			Green	565	110.0	24.0	15.0	350-2104-ND◆	4.49	3.50	2.83	612-3232-140F
			Yellow	585	90.0	6.0	15.0	350-2105-ND◆	4.49	3.50	2.83	612-3332-120F
			Yellow	585	90.0	12.0	15.0	350-2106-ND◆	4.49	3.50	2.83	612-3332-130F
			Yellow	585	90.0	24.0	15.0	350-2107-ND◆	4.49	3.50	2.83	612-3332-140F
12	Dome	Black	Red	635	60.0	6.0	15.0	350-2108-ND◆	5.21	4.06	3.29	616-1132-120F
			Red	635	60.0	12.0	15.0	350-2109-ND◆	5.21	4.06	3.29	616-1132-130F
			Red	635	60.0	24.0	15.0	350-2110-ND◆	5.21	4.06	3.29	616-1132-140F
			Green	565	110.0	6.0	15.0	350-2111-ND◆	5.21	4.06	3.29	616-1232-120F
			Green	565	110.0	12.0	15.0	350-2112-ND◆	5.21	4.06	3.29	616-1232-130F
			Green	565	110.0	24.0	15.0	350-2113-ND◆	5.21	4.06	3.29	616-1232-140F
			Yellow	585	90.0	6.0	15.0	350-2114-ND◆	5.21	4.06	3.29	616-1332-120F
			Yellow	585	90.0	12.0	15.0	350-2115-ND◆	5.21	4.06	3.29	616-1332-130F
			Yellow	585	90.0	24.0	15.0	350-2116-ND◆	5.21	4.06	3.29	616-1332-140F

◆ ***RoHS Compliant*** ‡ Typical Intensity (mcd)

Fig. 7

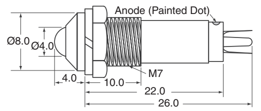

Fig. 8

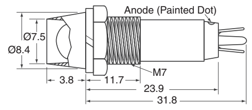

Fig. 9

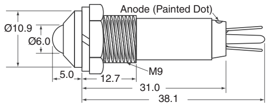

Fig. 10

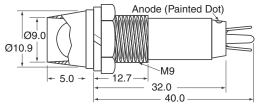

Fig. 11

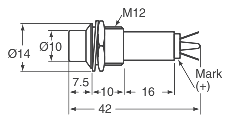

Fig. 12

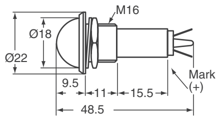

Single Chip BASED LEDs

RoHS COMPLIANT

Fig.	Lens	Housing	Color	Wavelength Peak (nm)	Intensity Typ. (mcd)	Voltage (VDC)	Current Typ. (mA)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Dialight Part No.
1	Flat	Chrome Plated	Red	639	775	14	10	350-2136-ND	3.82	2.98	2.41	586-1101-103F
			Red	639	775	28	10	350-2137-ND	3.82	2.98	2.41	586-1101-105F
			Green	520	600	14	10	350-2138-ND	6.09	4.74	3.84	586-1102-103F
			Green	520	600	28	10	350-2139-ND	6.09	4.74	3.84	586-1102-105F
			Yellow	592	775	14	10	350-2140-ND	3.82	2.98	2.41	586-1103-103F
			Yellow	592	775	28	10	350-2141-ND	3.82	2.98	2.41	586-1103-105F
			Blue	467	210	14	10	350-2142-ND	5.91	4.60	3.73	586-1105-103F
			Blue	467	210	28	10	350-2143-ND	6.09	4.74	3.84	586-1105-105F
			White	—	460	14	10	350-2144-ND	4.95	3.86	3.12	586-1106-103F
			White	—	460	28	10	350-2145-ND	6.09	4.74	3.84	586-1106-105F
2	Dome	Chrome Plated	Red	630	1050	6	15	350-2146-ND	4.95	3.86	3.12	586-2401-201F
			Red	630	1050	14	15	350-2147-ND	4.95	3.86	3.12	586-2401-203F
			Red	630	525	28	7.5	350-2148-ND	4.95	3.86	3.12	586-2401-205F
			Green	525	1650	6	15	350-2149-ND	7.34	5.58	4.70	586-2402-201F
			Green	525	1650	14	15	350-2150-ND	7.34	5.58	4.70	586-2402-203F
			Green	525	825	28	7.5	350-2151-ND	7.34	5.58	4.70	586-2402-205F
			Yellow	592	1275	6	15	350-2152-ND	4.95	3.86	3.12	586-2403-201F
			Yellow	592	1275	14	15	350-2153-ND	4.95	3.86	3.12	586-2403-203F
			Yellow	592	637	28	7.5	350-2154-ND	4.95	3.86	3.12	586-2403-205F
			Blue	470	487	6	15	350-2155-ND	7.13	5.42	4.56	586-2405-201F
			Blue	470	487	14	15	350-2156-ND	7.34	5.58	4.70	586-2405-203F
			Blue	470	243	28	7.5	350-2157-ND	7.34	5.58	4.70	586-2405-205F
			White	—	825	6	15	350-2158-ND	7.34	5.58	4.70	586-2406-201F
			White	—	825	14	15	350-2159-ND	7.34	5.58	4.70	586-2406-203F
			White	—	412	28	7.5	350-2160-ND	7.34	5.58	4.70	586-2406-205F

Fig. 1

Dim. in mm

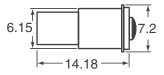

Fig. 2

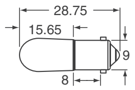

Optical Light Pipes

RoHS COMPLIANT

Fig. 1

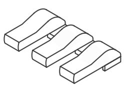

Fig. 2

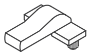

Fig. 3

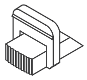

Fig. 4

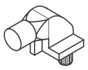

Fig. 5

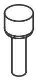

Fig. 6

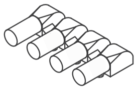

Fig. 7

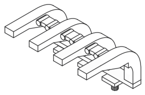

Fig. 8

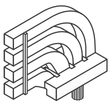

Fig. 9

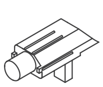

Fig. 10

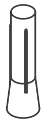

Fig. 11

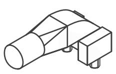

Fig. 12

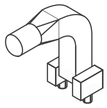

Fig. 13

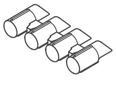

Fig. 14

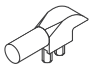

Fig. 15

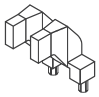

Fig. 16

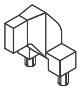

Fig. 17

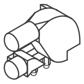

Fig. 18

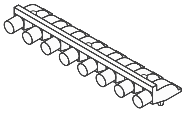

Fig.	No. of Ports	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Dialight Part No.
1	3	350-2161-ND	.90	.70	.60	515-1000F
2	1	350-2162-ND	.68	.53	.46	515-1001F
3	1	350-2163-ND	.51	.40	.34	515-1004F
4	1	350-2164-ND	.58	.46	.39	515-1011F
5	1	350-2165-ND	.36	.29	.25	515-1016F
6	4	350-2166-ND	1.11	.87	.74	515-1020F
6	4	350-2174-ND	1.36	1.06	.91	515-1048F
7	4	350-2167-ND	1.22	.95	.81	515-1022F
8	4	350-2168-ND	1.41	1.10	.94	515-1023F
9	1	350-2169-ND	.69	.54	.46	515-1024F
10	1	350-2170-ND	.36	.29	.25	515-1027F
11	1	350-2171-ND	.53	.42	.36	515-1038F
12	1	350-2172-ND	.58	.46	.39	515-1039F
13	4	350-2173-ND	.80	.63	.54	515-1040F
14	1	350-2175-ND	.85	.67	.57	515-1049F
15	2	350-2176-ND	.99	.78	.67	515-1051F
16	1	350-2177-ND	.99	.78	.67	515-1054F
17	2	350-2178-ND	.51	.40	.34	515-1061F
18	8	350-2179-ND	1.70	1.32	1.14	515-1062F
19	8	350-2180-ND	1.30	1.02	.87	515-1063F
20	3	350-2181-ND	.97	.76	.65	515-1064F
21	3	350-2182-ND	.97	.76	.65	515-1069F
22	2	350-2183-ND	1.04	.82	.70	515-1070F
23	2	350-1590-ND	1.29	1.00	.80	515-1071F
24	2	350-2184-ND	1.21	.95	.81	515-1090-801F
24	2	350-2185-ND	1.21	.95	.81	515-1090F
24	2	350-2189-ND	1.21	.95	.81	515-1118F
25	2	350-2186-ND	.58	.46	.39	515-1094F
26	1	350-2187-ND	2.30	1.80	1.54	515-1096F
26	1	350-2188-ND	.48	.38	.33	515-1110F
27	3	350-2190-ND	.61	.48	.41	515-1120F

Fig. 19

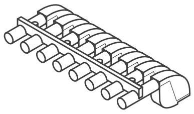

Fig. 20

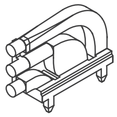

Fig. 21

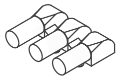

Fig. 22

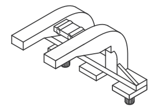

Fig. 23

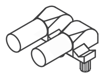

Fig. 24

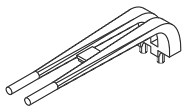

Fig. 25

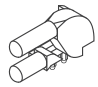

Fig. 26

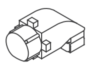

Fig. 27

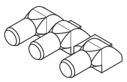

Dimensions in mm

Fig. 1

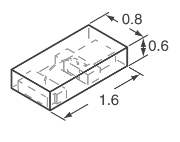

Fig. 2

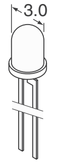

Fig. 3

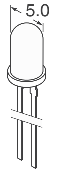

Fig. 4

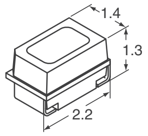

Fig. 5

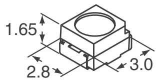

Fig. 6

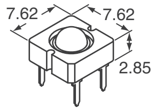

Fig.	Type	Color	Peak Wavelength (nm)	DC Forward Current I_f (mA)	Forward Voltage V_f (V) (Typ.)	Viewing Angle (°)	Luminous Intensity (Typ.) (mcd) @ I_f (mA)	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
1	0603	Blue	428	10	3.9	160	5	751-1156-1-ND†	1.25	.99	.85	TLMB1100-GS08
		Blue	428	10	3.9	160	5	751-1156-2-ND‡		1174.50/3,000		TLMB1100-GS08
		Green	572	20	2.1	160	35	751-1165-1-ND†	.48	.37	.25	TLMG1100-GS08
		Green	572	20	2.1	160	35	751-1165-2-ND‡		331.68/3,000		TLMG1100-GS08
		Orange	610	20	2.1	160	80	751-1174-1-ND†	.47	.36	.25	TLMO1100-GS08
		Orange	610	20	2.1	160	80	751-1174-2-ND‡		321.60/3,000		TLMO1100-GS08
		Pure Green	555	20	2.1	160	15	751-1176-1-ND†	.56	.43	.29	TLMP1100-GS08
		Pure Green	555	20	2.1	160	15	751-1176-2-ND‡		384.00/3,000		TLMP1100-GS08
		Red	645	20	2.1	160	63	751-1182-1-ND†	.47	.36	.25	TLMS1100-GS08
		Red	645	20	2.1	160	63	751-1182-2-ND‡		321.60/3,000		TLMS1100-GS08
		Yellow	591	20	2.1	160	80	751-1186-1-ND†	.47	.36	.25	TLMY1100-GS08
		Yellow	591	20	2.1	160	80	751-1186-2-ND‡		321.60/3,000		TLMY1100-GS08
2	3mm Lamp	Red	650	20	1.8	32	200	751-1089-ND	.56	.41	.30	TLDR4900
		Red	650	20	1.8	32	63 ~ 200	751-1090-ND	.63	.47	.37	TLDR4901
		Blue	428	20	3.9	60	15	751-1092-ND	1.11	.87	.67	TLHB4400
		Blue	428	20	3.9	60	10 ~ 32	751-1093-ND	.96	.83	.64	TLHB4401
		Yellow	590	10	1.9	32	300	751-1094-ND	.53	.41	.28	TLHE4900
		Soft Orange	610	10	1.9	32	300	751-1097-ND	.59	.45	.31	TLHF4900
		Green	565	10	2.4	60	4	751-1099-ND	.47	.34	.22	TLHG4400
		Green	565	10	2.4	60	6	751-1100-ND	.47	.34	.22	TLHG4401
		Green	565	10	2.4	60	12	751-1101-ND	.47	.34	.22	TLHG4405
		Green	565	10	2.4	120	2	751-1102-ND	.47	.34	.22	TLHG4600
		Green	565	10	2.4	120	3.5	751-1103-ND	.47	.34	.22	TLHG4601
		Green	565	10	2.4	120	6	751-1104-ND	.55	.40	.24	TLHG4605
		Red	643	10	1.9	32	140	751-1117-ND	.45	.35	.24	TLHK4900
		Soft Orange	605	10	2.4	60	4	751-1120-ND	.52	.37	.25	TLHO4400
		Pure Green	555	10	2.4	60	2	751-1121-ND	.52	.37	.25	TLHP4400
		Pure Green	555	10	2.4	60	3	751-1122-ND	.54	.38	.25	TLHP4401
		Pure Green	555	10	2.4	60	3.5	751-1123-ND	.42	.33	.22	TLHP4405
		Red	635	10	2	60	3	751-1127-ND	.43	.31	.20	TLHR4400
		Red	635	10	2	60	5	751-1128-ND	.43	.31	.20	TLHR4401
		Red	635	10	2	60	10	751-1129-ND	.43	.31	.20	TLHR4405
		Red	635	10	2.0	120	2	751-1130-ND	.56	.41	.24	TLHR4600
		Red	635	10	2.0	120	3.5	751-1131-ND	.44	.31	.21	TLHR4601
		Red	635	10	2.0	120	6	751-1132-ND	.47	.34	.22	TLHR4605
		Yellow	585	10	2.4	60	3	751-1142-ND	.49	.35	.23	TLHY4400
		Yellow	585	10	2.4	60	5	751-1143-ND	.49	.35	.23	TLHY4401
		Yellow	585	10	2.4	60	10	751-1144-ND	.49	.35	.23	TLHY4405
		Yellow	585	10	2.4	120	2	751-1145-ND	.48	.34	.23	TLHY4600
		Yellow	585	10	2.4	120	3.5	751-1146-ND	.49	.35	.23	TLHY4601
		Yellow	585	10	2.4	120	5	751-1147-ND	.53	.38	.25	TLHY4605
3	5mm Lamp	Red	650	20	1.8	8	2500	751-1091-ND	.51	.37	.30	TLDR5800
		Yellow	590	20	2.0	18	750	751-1095-ND	.54	.42	.28	TLHE5100
		Yellow	590	20	2.0	8	3500	751-1096-ND	.52	.39	.27	TLHE5800
		Soft Orange	610	20	2.0	8	3500	751-1098-ND	.60	.46	.31	TLHF5800
		Green	565	20	2.4	18	240	751-1105-ND	.44	.31	.21	TLHG5100
		Green	565	20	2.4	18	240 ~ 480	751-1106-ND	.45	.32	.21	TLHG5101
		Green	565	20	2.4	18	240 ~ 640	751-1107-ND	.47	.33	.22	TLHG5102
		Green	565	10	2.4	28	30	751-1108-ND	.51	.37	.22	TLHG5200
		Green	565	10	2.4	28	40	751-1109-ND	.53	.38	.23	TLHG5201
		Green	565	10	2.4	28	50	751-1110-ND	.56	.41	.24	TLHG5205
		Green	565	10	2.4	28	30	751-1111-ND	.51	.37	.22	TLHG6200
		Green	565	10	2.4	28	40	751-1112-ND	.53	.38	.23	TLHG6201
		Green	565	10	2.4	28	50	751-1113-ND	.55	.40	.24	TLHG6205
		Green	565	10	2.4	60	4	751-1114-ND	.52	.38	.23	TLHG6400
		Green	565	10	2.4	60	7	751-1115-ND	.54	.39	.23	TLHG6401
		Green	565	10	2.4	60	15	751-1116-ND	.44	.31	.21	TLHG6405
		Red	643	20	1.9	18	320	751-1118-ND	.46	.36	.24	TLHK5100
		Red	643	20	1.9	8	2500	751-1119-ND	.46	.36	.24	TLHK5800
		Pure Green	555	20	2.4	18	66	751-1124-ND	.52	.37	.25	TLHP5100
		Pure Green	555	20	2.4	18	66 ~ 132	751-1125-ND	.54	.39	.25	TLHP5101
		Pure Green	555	20	2.4	18	66 ~ 200	751-1126-ND	.56	.40	.26	TLHP5102
		Red	635	10	2.0	28	20	751-1133-ND	.42	.30	.18	TLHR5200
		Red	635	10	2.0	28	30	751-1134-ND	.43	.31	.19	TLHR5201
		Red	635	10	2.0	28	40	751-1135-ND	.46	.33	.20	TLHR5205
		Red	635	10	2.0	28	20	751-1136-ND	.51	.37	.22	TLHR6200
		Red	635	10	2.0	28	30	751-1137-ND	.53	.39	.23	TLHR6201
		Red	635	10	2.0	28	40	751-1138-ND	.53	.39	.23	TLHR6205
		Red	635	10	2.0	60	3.5	751-1139-ND	.51	.37	.22	TLHR6400
		Red	635	10	2.0	60	7	751-1140-ND	.52	.38	.22	TLHR6401
		Red	635	10	2.0	60	10	751-1141-ND	.53	.39	.23	TLHR6405
		Yellow	585	10	2.4	28	30	751-1148-ND	.48	.34	.23	TLHY5200
		Yellow	585	10	2.4	28	40	751-1149-ND	.49	.35	.23	TLHY5201
		Yellow	585	10	2.4	28	30	751-1150-ND	.48	.34	.23	TLHY6200
		Yellow	585	10	2.4	28	40	751-1151-ND	.49	.35	.23	TLHY6201
		Yellow	585	10	2.4	28	50	751-1152-ND	.50	.36	.24	TLHY6205
		Yellow	585	10	2.4	60	3.5	751-1153-ND	.48	.34	.23	TLHY6400
		Yellow	585	10	2.4	60	7	751-1154-ND	.49	.35	.23	TLHY6401
		Yellow	585	10	2.4	60	10	751-1155-ND	.53	.38	.25	TLHY6405

† Cut Tape ‡ Tape and Reel

(Continued)

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Fig.	Type	Color	Peak Wavelength (nm)	DC Forward Current I_f (mA)	Forward Voltage V_f (V) (Typ.)	Viewing Angle (°)	Luminous Intensity (Typ.) (mcd) @ I_f (mA)	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
4	MiniLED	Blue	428	10	3.9	120	7	751-1157-1-ND†	1.18	.94	.80	TLMB2100-GS08
		Blue	428	10	3.9	120	7	751-1157-2-ND‡		1115.37/3,000		TLMB2100-GS08
		Green	565	10	2.2	120	10	751-1166-1-ND†	.55	.39	.26	TLMG2100-GS08
		Green	565	10	2.2	120	10	751-1166-2-ND‡		312.12/3,000		TLMG2100-GS08
		Soft Orange	605	10	2.1	120	7.5	751-1175-1-ND†	.47	.36	.24	TLMO2100-GS08
		Soft Orange	605	10	2.1	120	7.5	751-1175-2-ND‡		319.68/3,000		TLMO2100-GS08
		Pure Green	555	10	2.4	120	2.2	751-1177-1-ND†	.54	.39	.26	TLMP2100-GS08
		Pure Green	555	10	2.4	120	2.2	751-1177-2-ND‡		308.34/3,000		TLMP2100-GS08
		Red	640	10	2.1	120	7.5	751-1183-1-ND†	.42	.32	.22	TLMS2100-GS08
		Red	640	10	2.1	120	7.5	751-1183-2-ND‡		288.96/3,000		TLMS2100-GS08
		Yellow	585	10	2.2	120	7.5	751-1187-1-ND†	.56	.40	.27	TLMY2100-GS08
		Yellow	585	10	2.2	120	7.5	751-1187-2-ND‡		319.68/3,000		TLMY2100-GS08
5	PLCC2	Blue	428	10	3.9	120	8	751-1158-1-ND†	1.15	.91	.78	TLMB3100-GS08
		Blue	428	10	3.9	120	8	751-1158-2-ND‡		600.98/1,500		TLMB3100-GS08
		Blue	428	10	3.9	120	4 ~ 12.5	751-1159-1-ND†	1.18	.94	.80	TLMB3101-GS08
		Blue	428	10	3.9	120	4 ~ 12.5	751-1159-2-ND‡		615.83/1,500		TLMB3101-GS08
		Blue	428	10	3.9	120	5 ~ 12.5	751-1160-1-ND†	1.15	.91	.78	TLMB3104-GS08
		Blue	428	10	3.9	120	5 ~ 12.5	751-1160-2-ND‡		600.98/1,500		TLMB3104-GS08
		Blue	428	10	3.9	120	5 ~ 20	751-1161-1-ND†	1.27	1.01	.86	TLMB3106-GS08
		Blue	428	10	3.9	120	5 ~ 20	751-1161-2-ND‡		665.33/1,500		TLMB3106-GS08
		Red	650	10	1.8	120	20	751-1162-1-ND†	.48	.37	.25	TLMD3100-GS08
		Red	650	10	1.8	120	20	751-1162-2-ND‡		185.22/1,500		TLMD3100-GS08
		Yellow	590	10	2.0	120	50	751-1163-1-ND†	.51	.36	.24	TLME3100-GS08
		Yellow	590	10	2.0	120	50	751-1163-2-ND‡		159.90/1,500		TLME3100-GS08
		Soft Orange	610	10	2.0	120	50	751-1164-1-ND†	.56	.40	.26	TLMF3100-GS08
		Soft Orange	610	10	2.0	120	50	751-1164-2-ND‡		175.50/1,500		TLMF3100-GS08
		Green	565	10	2.2	120	9	751-1167-1-ND†	.51	.37	.24	TLMG3100-GS08
		Green	565	10	2.2	120	9	751-1167-2-ND‡		162.00/1,500		TLMG3100-GS08
		Green	565	10	2.2	120	4 ~ 12.5	751-1168-1-ND†	.53	.38	.25	TLMG3101-GS08
		Green	565	10	2.2	120	4 ~ 12.5	751-1168-2-ND‡		168.60/1,500		TLMG3101-GS08
		Green	565	10	2.2	120	10 ~ 20	751-1169-1-ND†	.53	.38	.25	TLMG3102-GS08
		Green	565	10	2.2	120	10 ~ 20	751-1169-2-ND‡		168.60/1,500		TLMG3102-GS08
		Red	635	10	2	120	6	751-1170-1-ND†	.51	.37	.24	TLMH3100-GS08
		Red	635	10	2	120	6	751-1170-2-ND‡		162.00/1,500		TLMH3100-GS08
		Red	635	10	2	120	4 ~ 12.5	751-1171-1-ND†	.53	.38	.25	TLMH3101-GS08
		Red	635	10	2	120	4 ~ 12.5	751-1171-2-ND‡		166.20/1,500		TLMH3101-GS08
		Red	635	10	2	120	6.3 ~ 20	751-1172-1-ND†	.44	.34	.23	TLMH3102-GS08
		Red	635	10	2	120	6.3 ~ 20	751-1172-2-ND‡		171.18/1,500		TLMH3102-GS08
		Red	643	10	1.9	120	18	751-1173-1-ND†	.50	.36	.24	TLMK3100-GS08
		Red	643	10	1.9	120	18	751-1173-2-ND‡		159.00/1,500		TLMK3100-GS08
		Pure Green	555	10	2.1	120	4	751-1178-1-ND†	.44	.34	.23	TLMP3100-GS08
		Pure Green	555	10	2.1	120	4	751-1178-2-ND‡		171.45/1,500		TLMP3100-GS08
		Pure Green	555	10	2.1	120	1.6 ~ 5	751-1179-1-ND†	.46	.36	.24	TLMP3101-GS08
		Pure Green	555	10	2.1	120	1.6 ~ 5	751-1179-2-ND‡		179.01/1,500		TLMP3101-GS08
		Pure Green	555	10	2.1	120	2.5 ~ 8	751-1180-1-ND†	.44	.34	.23	TLMP3102-GS08
		Pure Green	555	10	2.1	120	2.5 ~ 8	751-1180-2-ND‡		170.91/1,500		TLMP3102-GS08
		Pure Green	555	10	2.1	120	2.5 ~ 5	751-1181-1-ND†	.48	.37	.25	TLMP3107-GS08
		Pure Green	555	10	2.1	120	2.5 ~ 5	751-1181-2-ND‡		184.95/1,500		TLMP3107-GS08
		Red	640	10	2.0	120	7.5	751-1184-1-ND†	.55	.39	.26	TLMS3100-GS08
		Red	640	10	2.0	120	7.5	751-1184-2-ND‡		172.50/1,500		TLMS3100-GS08
		Yellow	585	10	2.1	120	6	751-1188-1-ND†	.46	.33	.22	TLMY3100-GS08
		Yellow	585	10	2.1	120	6	751-1188-2-ND‡		146.70/1,500		TLMY3100-GS08
		Yellow	585	10	2.1	120	6.3 ~ 20	751-1189-1-ND†	.47	.34	.22	TLMY3102-GS08
		Yellow	585	10	2.1	120	6.3 ~ 20	751-1189-2-ND‡		148.50/1,500		TLMY3102-GS08
		Blue	464	20	3	120	100	751-1239-1-ND†	.88	.69	.59	VLMB3140-GS08
		Blue	464	20	3	120	100	751-1239-2-ND‡		453.38/1,500		VLMB3140-GS08
		White	—	10	3.3	120	112 ~ 355	751-1246-1-ND†	.99	.77	.66	VLMW41R1T1-5K8L-08
		White	—	10	3.3	120	112 ~ 355	751-1246-2-ND‡		511.50/1,500		VLMW41R1T1-5K8L-08
	PLCC4	White	—	30	3.7	120	560	751-1242-1-ND†	1.04	.81	.69	VLMW3200-GS08
		White	—	30	3.7	120	560	751-1242-2-ND‡		534.75/1,500		VLMW3200-GS08
		White	—	30	3.7	120	710 ~ 900	751-1244-1-ND†	1.08	.84	.72	VLMW3201-GS08
		White	—	30	3.7	120	710 ~ 900	751-1244-2-ND‡		558.00/1,500		VLMW3201-GS08
6	TELUX™ 4-pin	Red	624	70	2.2	60	0.7	751-1190-5-ND	.65	.48	.38	TLWR7600
		Red	624	70	2.2	90	0.7	751-1191-5-ND	.65	.48	.38	TLWR7900
		Red	624	70	2.2	60	0.8	751-1192-5-ND	.77	.57	.45	TLWR8600
		Red	624	70	2.2	90	0.7	751-1193-5-ND	.77	.57	.45	TLWR8900
		Red	624	70	2.2	60	0.8	751-1194-5-ND	.99	.77	.60	TLWR9600
		Red	624	70	2.2	90	0.7	751-1195-5-ND	.84	.66	.51	TLWR9900
		Yellow	594	70	2.1	60	0.7	751-1196-5-ND	.66	.49	.39	TLWY7600
		Yellow	594	70	2.1	90	0.7	751-1197-5-ND	.66	.49	.39	TLWY7900
		Yellow	594	70	2.1	60	0.8	751-1198-5-ND	.77	.57	.45	TLWY8600
		Yellow	594	70	2.1	90	0.7	751-1199-5-ND	.77	.57	.45	TLWY8900
		True Green	518	50	3.9	60	0.7	751-1248-5-ND	1.20	.96	.80	VLWTG9600
		True Green	518	50	3.9	90	0.7	751-1249-5-ND	1.20	.96	.80	VLWTG9900
		White	—	50	4.3	60	0.8	751-1250-5-ND	1.07	.86	.72	VLWW9600
		White	—	50	4.3	60	0.8	751-1251-5-ND	1.07	.86	.72	VLWW9601
		White	—	50	4.3	90	0.8	751-1252-5-ND	1.07	.86	.72	VLWW9900

† Cut Tape ‡ Tape and Reel

Remote Control Receivers

Fig.	Supply Voltage (V)	Sensitivity E_e (mw/m^2)	Carrier Frequency (kHz)	Transmit Distance Typ. (m)	Digi-Key Part No.	Price Each 1	10	100	Vishay Part No.
1	2.7 ~ 5.5	0.2 ~ 0.35	38	35	751-1223-5-ND	1.80	1.56	1.20	TSOP32238
2	2.7 ~ 5.5	0.4 ~ 0.55	38	30	751-1227-5-ND	1.13	.90	.75	TSOP38238

Fig. 1

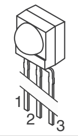

Fig. 2

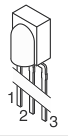

STANLEY

LED 7-Segment Displays

Fig. 1

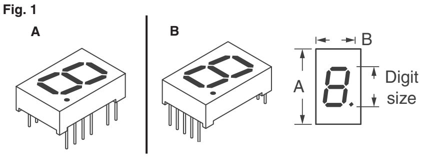

Fig. 2

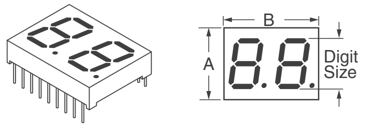

Fig. 3

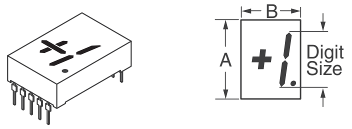

Fig.	Emitted Color	Digit Size Inch (mm)	Dimensions mm A x B	Forward Voltage Typ.	@ If	Iv (µcd)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each 1	25	100	Stanley Part No. Common Anode	Stanley Part No. Common Cathode
1A	Red	.30 (7.5)	11.0 x 7.0	1.7	10	2800	404-1118-ND	404-1119-ND	1.92	.97	.87	NAR131SB	NKR131SB
	Red	.40 (10)	13.0 x 9.6	1.7	10	6400	—	404-1120-ND	1.88	.95	.85	—	NKR141SC
	Red	.40 (10)	19.0 x 12.5	1.7	20	8000	404-1121-ND	404-1122-ND	2.44	1.44	1.22	NAR141B	NKR141B
1B	Red	.60 (15)	19.0 x 12.5	1.7	20	12000	404-1124-ND	404-1125-ND	1.96	.99	.89	NAR161B	NKR161B
	Red	1.00 (25)	33.0 x 22.8	3.4	20	20000	404-1126-ND	404-1127-ND	5.52	3.40	3.01	NAR105B	NKR105B
	Green	1.00 (25)	33.0 x 22.8	4.4	20	8000	404-1128-ND	404-1129-ND	5.49	3.38	2.99	NAG105PB	NKG105PB
	Red/Green	1.00 (25)	33.0 x 22.8	3.4/4.0	10/10	4000	404-1134-ND	—	7.35	5.38	4.46	NARG105	—
2	Red	.60 (15)	19.0 x 25.2	1.7	20	12000	404-1130-ND	404-1131-ND	3.42	2.11	1.98	NAR261B	NKR261B

Fig.	Emitted Color	Digit Size Inch (mm)	Dimensions mm A x B	Forward Voltage Typ.	@ If	Iv (µcd)	Digi-Key Part No.	Price Each 1	25	100	Stanley Part No.
3	Red	.60 (15)	19.0 x 12.5	1.7	20	12000	404-1136-ND	2.23	1.32	1.11	NSR161B

Super Bright LED Light Bar Module

Fig. 1

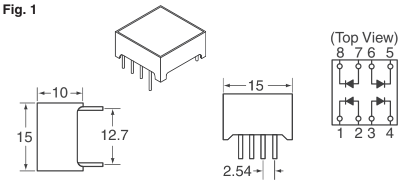

Fig. 2

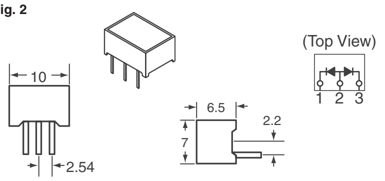

Fig. 3

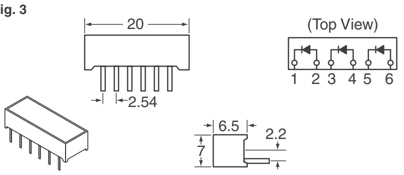

Fig. 4

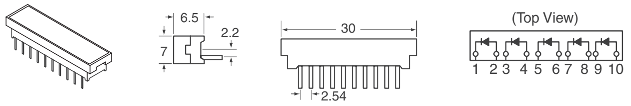

Fig. 5

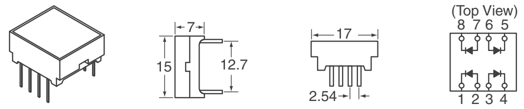

Fig.	Emitted Color	Wavelength λpk Typ. (nm)	Forward Voltage Typ.	@ If	Iv (mcd)	Digi-Key Part No.	Price Each 1	25	100	Stanley Part No.
1	Yellow	570	2.1	20	42	404-1139-ND	1.44	.80	.66	MU02-4201
2	Red	660	1.7	20	20	404-1141-ND	.96	.43	.39	MU03-2201
3	Red	660	1.7	20	32	404-1145-ND	1.16	.65	.53	MU04-2101
	Yellow	570	2.1	20	32	404-1146-ND	1.13	.63	.51	MU04-4101
	Green	560	2.1	20	20	404-1147-ND	1.13	.63	.51	MU04-5102
4	Red	660	1.7	20	40	404-1148-ND	1.69	.85	.77	MU07-2101
	Yellow	570	2.1	20	40	404-1150-ND	1.61	.82	.73	MU07-4101
5	Red	660	1.7	20	40	404-1152-ND	1.52	.85	.69	MU08-2201
	Yellow	570	2.2	20	40	404-1153-ND	1.47	.82	.67	MU08-4201
	Pure Green	560	2.2	20	20	404-1154-ND	1.65	.83	.75	MU08-5201

STANLEY Surface Mount LEDs

Fig. 1 — 0603 Ultra Compact

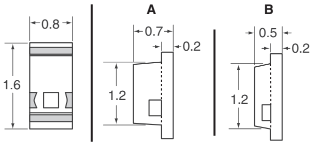

Fig. 2 — 0603 SMT *NEW!*

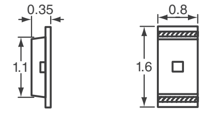

Fig. 3 — 0805 Thin Type

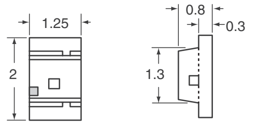

Fig. 4 — 1206 Standard and Reverse Mount Dome Lens

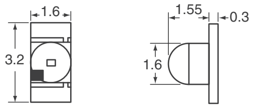

Fig. 5 — 1206 Standard Flat Lens

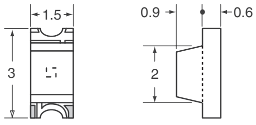

Fig. 6 — 1206 Standard Inner Lens

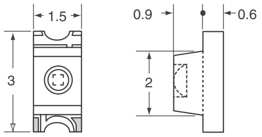

Fig. 7 — 1206 Reverse Mount

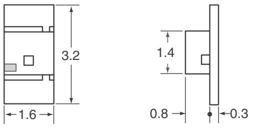

Fig. 8 — Right Angle SMT LED

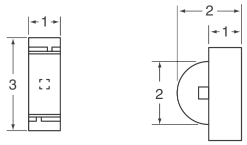

Fig. 9 — Right Angle SMT LED

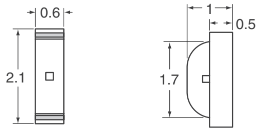

Fig. 10 — 1210 Bi-Color Standard Flat Lens Type SMT LED

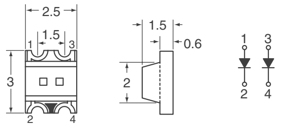

Fig. 11 — 1210 Bi-Color Two Inner Lens Type SMT LED

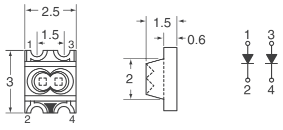

Fig. 12 — Bi-Color Ultra Compact SMT LED

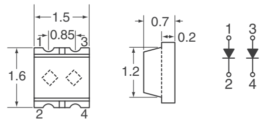

Fig. 13 — Bi-Color Right Angle SMT LED

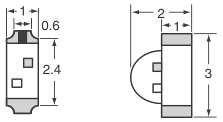

Fig. 14 — Low Profile

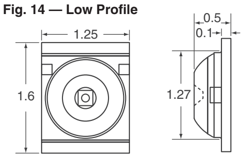

Fig. 15 — 3.2 x 2.8 Flat Lens

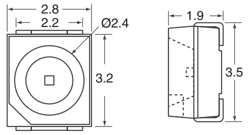

Fig. 16 — PLCC-2 SMT *NEW!*

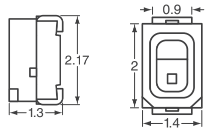

Fig. 17 — Right Angle SMT LED *NEW!*

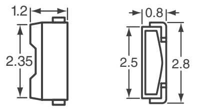

Fig.	Source Color	Lens	Wavelength λpk (nm)	Forward Voltage TYP	@ mA	Iv – Typ (mcd)	Viewing Angle	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Qty.	Pricing	Stanley Part No.
								0603 Ultra Compact							
1A	Red	Milky White	660	1.7	20	11.7	140°	404-1000-1-ND	.23	2.74	7.95	404-1000-2-ND	4,000	51.44/M	BR1111C-TR
	Orange		605	2.2	20	3.4	150°	404-1001-1-ND	.37	4.50	13.55	404-1001-2-ND	4,000	97.98/M	AA1111C-TR
	Yellow		580	2.2	20	3.4	150°	404-1002-1-ND	.18	1.93	5.66	404-1002-2-ND	4,000	38.24/M	AY1111C-TR
	Yellow-Green		570	2.1	20	11.7	150°	404-1003-1-ND	.19	2.17	6.31	404-1003-2-ND	4,000	40.83/M	PY1111C-TR
	Green		560	2.1	20	6.4	150°	404-1004-1-ND	.19	2.17	6.31	404-1004-2-ND	4,000	40.83/M	PG1111C-TR
	Pure Green		555	2.1	20	2.4	150°	404-1005-1-ND	.19	2.30	6.94	404-1005-2-ND	4,000	46.97/M	BG1111C-TR
	Red		635	1.9	20	50	140°	404-1006-1-ND	1.04	12.75	41.47	404-1006-2-ND	4,000	295.73/M	FR1111C-TR
	Orange		609	1.9	20	65	140°	404-1007-1-ND	.92	11.36	36.95	404-1007-2-ND	4,000	263.52/M	FA1111C-TR
	Yellow		590	1.9	20	65	140°	404-1008-1-ND	.27	3.33	10.84	404-1008-2-ND	4,000	77.30/M	FY1111C-TR
	Green		522	3.1	10	68	140°	404-1166-1-ND	1.32	16.22	52.76	404-1166-2-ND	4,000	376.25/M	MG1111C-TR
	Blue		465	3.1	10	14	140°	404-1165-1-ND	1.24	15.28	49.68	404-1165-2-ND	4,000	354.29/M	MB1111C-TR
1B	Red	Milky White	635	1.9	20	45	130°	404-1012-1-ND	1.29	15.75	47.44	404-1012-2-ND	4,000	321.30/M	FR1112C-TR
	Orange		609	1.9	20	50	130°	404-1013-1-ND	1.11	13.50	40.66	404-1013-2-ND	4,000	275.40/M	FA1112C-TR
	Yellow		590	1.9	20	50	130°	404-1014-1-ND	.51	6.22	18.73	404-1014-2-ND	4,000	126.84/M	FY1112C-TR
	Green		560	2.2	20	7.6	150°	404-1015-1-ND	.37	4.50	13.55	404-1015-2-ND	4,000	97.98/M	PG1112C-TR
	Yellow-Green		570	2.1	20	11.7	150°	404-1016-1-ND	.35	4.28	12.88	404-1016-2-ND	4,000	93.08/M	PY1112C-TR
2	White	Pale Yellow	—	2.8	1	25	150°	404-1176-1-ND ***NEW!***	1.28	16.80	57.60	404-1176-2-ND ***NEW!***	4,000	448.00/M	KW1148C-TR
								0805 Thin Type							
3	Red	Milky White	660	1.7	20	11.7	150°	404-1017-1-ND	.23	2.86	8.61	404-1017-2-ND	4,000	58.30/M	BR1112H-TR
	Orange		605	2.2	20	3.7	160°	404-1018-1-ND	.36	4.43	13.33	404-1018-2-ND	4,000	96.35/M	AA1112H-TR
	Yellow		580	2.2	20	3.7	160°	404-1019-1-ND	.35	4.28	12.88	404-1019-2-ND	4,000	93.08/M	AY1112H-TR
	Yellow-Green		570	2.1	20	11.7	160°	404-1020-1-ND	.33	3.98	11.97	404-1020-2-ND	4,000	86.55/M	PY1112H-TR
	Green		560	2.1	20	6.4	160°	404-1021-1-ND	.20	2.32	6.74	404-1021-2-ND	4,000	43.60/M	PG1112H-TR
	Pure Green		555	2.1	20	2.7	160°	404-1022-1-ND	.28	3.26	9.47	404-1022-2-ND	4,000	61.24/M	BG1112H-TR
	Red		635	1.9	20	50	150°	404-1023-1-ND	1.11	13.64	44.34	404-1023-2-ND	4,000	316.23/M	FR1112H-TR
	Orange		609	1.9	20	65	150°	404-1024-1-ND	.95	11.68	37.98	404-1024-2-ND	4,000	270.84/M	FA1112H-TR
	Yellow		592	1.9	20	65	150°	404-1025-1-ND	1.00	12.25	39.83	404-1025-2-ND	4,000	284.02/M	FY1112H-TR
								1206 Standard and Reverse Mount Dome Lens							
4	Red	Water Clear	660	1.8	20	150	30°	404-1032-1-ND	.89	10.80	32.53	404-1032-2-ND	2,000	235.15/M	HKR1105W-TR
	Red		660	1.7	20	50	50°	404-1033-1-ND	.43	5.25	15.81	404-1033-2-ND	2,000	114.31/M	HBR1105W-TR
	Orange		605	2.2	20	20	40°	404-1034-1-ND	.55	6.75	20.33	404-1034-2-ND	2,000	146.97/M	HAA1105W-TR
	Yellow		580	2.2	20	20	40°	404-1035-1-ND	.31	3.80	11.45	404-1035-2-ND	2,000	82.80/M	HAY1105W-TR
	Yellow-Green		570	2.1	20	50	40°	404-1036-1-ND	.36	4.35	13.10	404-1036-2-ND	2,000	94.72/M	HPY1105W-TR
	Green		560	2.1	20	30	40°	404-1037-1-ND	.32	3.75	10.88	404-1037-2-ND	2,000	74.52/M	HPG1105W-TR
	Pure Green		555	2.1	20	12	40°	404-1038-1-ND	.47	5.78	17.39	404-1038-2-ND	2,000	125.74/M	HBG1105W-TR
	Red		635	1.9	20	180	50°	404-1029-1-ND	.37	4.54	13.67	404-1029-2-ND	2,000	98.80/M	FR1105W-TR
	Orange		609	1.9	20	200	50°	404-1030-1-ND	.85	10.42	33.87	404-1030-2-ND	2,000	252.45/M	FA1105W-TR
	Yellow		592	1.9	20	180	50°	404-1031-1-ND	.42	5.15	15.52	404-1031-2-ND	2,000	112.19/M	FY1105W-TR
	Yellow		592	2.2	20	500	50°	404-1174-1-ND	.69	7.63	27.95	404-1174-2-ND	2,000	218.00/M	UY1105W-TR
	Green		522	3.3	10	1000	40°	404-1169-1-ND	1.68	20.71	67.34	404-1169-2-ND	2,000	501.84/M	UG1105W-TR
	Blue		465	3.3	10	220	40°	404-1168-1-ND	1.18	14.46	47.01	404-1168-2-ND	2,000	350.37/M	UB1105W-TR
								1206 Standard Flat Lens							
5	Red	Water Clear	660	1.7	20	12.8	150°	404-1042-1-ND	.29	3.42	9.92	404-1042-2-ND	2,500	67.95/M	BR1101W-TR
	Orange		605	2.2	20	5.6		404-1043-1-ND	.44	5.33	16.04	404-1043-2-ND	2,500	115.95/M	AA1101W-TR
	Yellow		580	2.2	20	4.0		404-1044-1-ND	.40	4.88	14.68	404-1044-2-ND	2,500	106.15/M	AY1101W-TR
	Yellow-Green		570	2.1	20	8.0		404-1045-1-ND	.38	4.65	14.01	404-1045-2-ND	2,500	101.25/M	PY1101W-TR
	Green		560	2.1	20	4.8		404-1046-1-ND	.27	3.20	9.29	404-1046-2-ND	2,500	63.63/M	PG1101W-TR
	Pure Green		555	2.1	20	2.0		404-1047-1-ND	.30	3.53	10.25	404-1047-2-ND	2,500	66.30/M	BG1101W-TR
	White	Pale Yellow	—	3.0	10	80	170°	404-1177-1-ND ***NEW!***	.97	12.83	43.32	404-1177-2-ND ***NEW!***	2,500	330.60/M	LW1141W-TR

† Reversed Polarity

(Continued)

Surface Mount LEDs *(Cont.)*

Fig.	Source Color	Lens	Wavelength λpk (nm)	Forward Voltage TYP	@ mA	Iv – Typ (mcd)	Viewing Angle	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Qty.	Tape & Reel Pricing	Stanley Part No.
1206 Standard Inner Lens															
6	Red	Water Clear	660	1.7	20	33.6	70°	404-1048-1-ND	.43	5.25	15.81	404-1048-2-ND	2,500	114.32/M	BR1102W-TR
	Orange		605	2.2	20	10.0		404-1049-1-ND	.44	5.33	16.04	404-1049-2-ND	2,500	115.95/M	AA1102W-TR
	Yellow		580	2.2	20	8.4		404-1050-1-ND	.40	4.88	14.68	404-1050-2-ND	2,500	106.15/M	AY1102W-TR
	Yellow-Green		570	2.1	20	24.0		404-1051-1-ND	.22	2.66	8.02	404-1051-2-ND	2,500	57.98/M	PY1102W-TR
	Green		560	2.1	20	12.0		404-1052-1-ND	.27	3.14	9.12	404-1052-2-ND	2,500	62.42/M	PG1102W-TR
	Pure Green		555	2.1	20	4.8		404-1053-1-ND	.47	5.70	17.17	404-1053-2-ND	2,500	124.11/M	BG1102W-TR
1206 Reverse Mount															
7	Red	Milky White	660	1.7	20	12.7	140°	404-1054-1-ND†	.42	5.10	15.36	404-1054-2-ND	3,000	111.05/M	BR1111R-TR
	Yellow		580	2.2	20	3.7	150°	404-1056-1-ND	.40	4.88	14.68	404-1056-2-ND	3,000	106.15/M	AY1111R-TR
	Green		560	2.1	20	6.9	150°	404-1058-1-ND	.27	3.21	9.32	404-1058-2-ND	3,000	60.26/M	PG1111R-TR
	Pure Green		555	2.1	20	2.7	150°	404-1059-1-ND	.41	5.03	15.14	404-1059-2-ND	3,000	109.41/M	BG1111R-TR
Right Angle SMT LED															
8	Red	Water Clear	635	1.9	20	50	140°	404-1060-1-ND	1.08	13.50	48.58	404-1060-2-ND	3,000	385.04/M	FR1101F-TR
	Orange		609	1.9	20	65	140°	404-1061-1-ND	.42	5.14	15.47	404-1061-2-ND	3,000	111.86/M	FA1101F-TR
	Yellow		592	1.9	20	65	140°	404-1062-1-ND	1.18	14.52	47.22	404-1062-2-ND	3,000	336.72/M	FY1101F-TR
	Red		660	1.7	20	12.4	170°	404-1063-1-ND	.36	4.24	12.30	404-1063-2-ND	3,000	79.53/M	BR1101F-TR
	Yellow		580	2.2	20	3.0	150°	404-1065-1-ND	.30	3.51	10.20	404-1065-2-ND	3,000	65.98/M	AY1101F-TR
	Yellow-Green		570	2.1	20	8.8	150°	404-1066-1-ND	.41	5.03	15.14	404-1066-2-ND	3,000	109.41/M	PY1101F-TR
	Green		560	2.1	20	5.2		404-1067-1-ND	.30	3.53	10.25	404-1067-2-ND	3,000	66.30/M	PG1101F-TR
	Pure Green		555	2.1	20	2.4		404-1068-1-ND	.44	5.33	16.04	404-1068-2-ND	3,000	115.95/M	BG1101F-TR
Right Angle SMT LED															
9	Red	Milky White	660	1.7	20	11.7	130°	404-1069-1-ND	.34	4.13	12.42	404-1069-2-ND	4,000	89.82/M	BR1113F-TR
	Yellow-Green		570	2.1	20	11.7	150°	404-1070-1-ND	.35	4.28	12.88	404-1070-2-ND	4,000	93.08/M	PY1113F-TR
	Green		560	2.1	20	6.4	150°	404-1071-1-ND	.37	4.50	13.55	404-1071-2-ND	4,000	97.98/M	PG1113F-TR
	Red		635	1.9	20	50	130°	404-1072-1-ND	.66	8.08	26.28	404-1072-2-ND	4,000	187.40/M	FR1113F-TR
	Orange		609	1.9	20	65	130°	404-1073-1-ND	.78	9.53	31.00	404-1073-2-ND	4,000	221.07/M	FA1113F-TR
	Yellow		592	1.9	20	65	130°	404-1074-1-ND	.70	8.59	27.92	404-1074-2-ND	4,000	199.11/M	FY1113F-TR
	Bluish-Green		502	3.3	10	34		404-1076-1-ND	2.06	27.34	96.71	404-1076-2-ND	4,000	793.55/M	DC1113F-TR
1210 Bi-Color Standard Flat Lens Type SMT LED															
10	Red/Ylw-Grn	Water Clear	660/570	1.7/2.1	20/20	12.8/8	160°	404-1078-1-ND	.62	7.58	24.64	404-1078-2-ND	2,500	183.60/M	BRPY1201W-TR
	Red/Green		660/560	1.7/2.1	20/20	12.8/4.8		404-1079-1-ND	.46	5.62	16.92	404-1079-2-ND	2,500	122.32/M	BRPG1201W-TR
1210 Bi-Color Two Inner Lens SMT LED															
11	Red/Green	Water Clear	660/560	1.7/2.1	20/20	33.6/12	100°/80°	404-1082-1-ND	.62	7.58	24.64	404-1082-2-ND	2,500	183.60/M	BRPG1204W-TR
	Or/Ylw-Grn		605/570	2.2/2.1	20/20	9/12	80°/80°	404-1084-1-ND	.62	8.25	30.00	404-1084-2-ND	2,500	183.60/M	AAPY1204W-TR
Bi-Color Ultra Compact SMT LED															
12	Red/Ylw-Green	Milky White	660/570	1.7/2.1	20/20	11.7/11.7	170°/ 150°	404-1085-1-ND	.37	4.36	13.32	404-1085-2-ND	4,000	94.93/M	BRPY1211C-TR
	Red/Green		660/560	1.7/2.1	20/20	11.7/6.4		404-1086-1-ND	.37	4.54	13.67	404-1086-2-ND	4,000	92.57/M	BRPG1211C-TR
	Red/Pure Green		660/555	1.7/2.1	20/20	11.7/2.4		404-1087-1-ND	.48	5.75	17.55	404-1087-2-ND	4,000	140.76/M	BRBG1211C-TR
Bi-Color Right Angle SMT LED															
13	Yellow-Green	Milky White	580/560	2.2/2.1	20/20	3.0/5.2	150°	404-1088-1-ND	.40	4.88	14.71	404-1088-2-ND	3,000	106.33/M	AYPG1211F-TR
	Red/Yellow-Grn		660/570	1.7/2.1	20/20	17.6/8.8		404-1089-1-ND	.42	5.18	15.59	404-1089-2-ND	3,000	112.68/M	BRPY1211F-TR
1.6 x 1.25 Low Profile															
14	Yellow	Water Clear	570	2.1	10	8.0	180°	404-1163-1-ND	.36	4.43	13.33	404-1163-2-ND	4,000	96.35/M	PY1105CK-TR
3.2 x 2.8 Flat Lens															
15	Red	Water Clear	645	2.0	20	70	120°	404-1161-1-ND	.95	11.34	36.30	404-1161-2-ND	2,000	268.95/M	FR1104B-TR
	Yellow		588					404-1160-1-ND	.49	5.91	18.92	404-1160-2-ND	2,000	123.15/M	FY1104B-TR
	White	Pale Yellow	—	3.3	30	1500	120°	404-1178-1-ND ***NEW!***	1.72	23.95	83.83	404-1178-2-ND ***NEW!***	2,500	670.60/M	VEW1147LS-TR
NEW! PLCC-2 SMT NEW!															
16	White	Pale Yellow	—	3.1	10	100	120°	404-1179-1-ND	1.17	16.45	53.82	404-1179-2-ND	3,000	426.08/M	VLW1148LS-TR
NEW! Right Angle SMT LED NEW!															
17	White	Pale Yellow	—	3.2	20	1720	105°	404-1180-1-ND	2.09	29.93	107.45	404-1180-2-ND	3,000	859.60/M	HKW1142LT-TR
						1200		404-1181-1-ND	1.42	19.85	68.04	404-1181-2-ND	3,000	529.20/M	HEW1142LS-TR

† Reversed Polarity

Through-Hole LEDs

Fig. 1

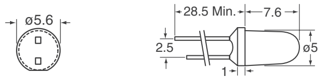

Fig. 2

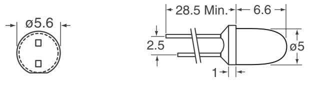

Fig. 3

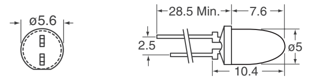

Fig. 4

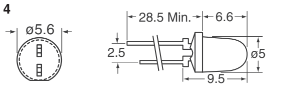

Fig. 5

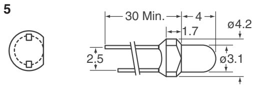

Fig. 6

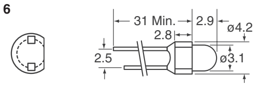

Fig. 7

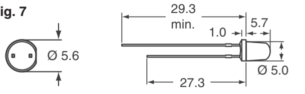

Fig.	Description	Source Color	Lens	Wavelength λpk (nm)	Forward Voltage TYP	@ mA	Iv (mcd)	Viewing Angle	Digi-Key Part No.	Price Each 1	25	100	Stanley Part No.
1	5mm	Red	Clear Pastel Red	635	1.9	20	3600	10°	404-1090-ND	.77	.38	.31	EFR5366X
		Orange	Clear Pastel Orange	609			5000		404-1091-ND	.77	.38	.31	EFA5366X
		Yellow	Clear Pastel Yellow	592			4000		404-1092-ND	.82	.41	.33	EFY5366X
2	5mm	Red	Clear Pastel Red	635	1.9	20	880	45°	404-1096-ND	.82	.41	.33	EFR5365S
		Orange	Clear Pastel Orange	609	1.9	20	1160	45°	404-1097-ND	.82	.41	.33	EFA5365S
		Yellow	Clear Pastel Yellow	592	1.9	20	1000	45°	404-1098-ND	.82	.41	.33	EFY5365S
		Blue	Water Clear	467	3.2	20	1500	45°	404-1171-ND	1.05	.59	.48	LB5806X
		White	Water Clear	—	3.7	20	2000	35°	404-1162-ND	1.36	.70	.64	UW5805S
3	5mm	Red	Water Clear	660	1.8	20	1000	10°	404-1102-ND	1.28	.71	.58	H-1000L
							2000		404-1103-ND	1.89	.95	.86	H-2000L
							3000		404-1104-ND	2.42	1.43	1.21	H-3000L
4	5mm	Red	Water Clear	660	1.8	20	300	25°	404-1105-ND	.89	.44	.36	KR5005S
5	3mm Flush Mount	Red	Clear Pastel Red	635	1.9	20	1280	20°	404-1106-ND	.83	.41	.34	EFR3863X
		Orange	Clear Pastel Orange	609	1.9	20	1600	20°	404-1107-ND	.93	.46	.38	EFA3863X
		Yellow	Clear Pastel Yellow	592	1.9	20	1440	20°	404-1108-ND	.82	.41	.33	EFY3863X
		Blue	Water Clear	467	3.2	20	750	20°	404-1170-ND	1.03	.58	.47	LB3803X
		White	Water Clear	—	3.7	20	2400	25°	404-1175-ND ***NEW!***	1.54	.82	.72	UW3803X
6	3mm Flush Mount	Red	Clear Pastel Red	635	1.9	20	440	70°	404-1112-ND	.83	.41	.34	EFR3864X
		Orange	Clear Pastel Orange	609			560		404-1113-ND	.93	.46	.38	EFA3864X
		Yellow	Clear Pastel Yellow	592			500		404-1114-ND	.77	.38	.31	EFY3864X
7	5mm	Green	Water Clear	517	3.2	20	2000	35°	404-1173-ND	1.59	.88	.72	LG5804B
		Blue		467			480		404-1172-ND	1.05	.58	.48	LB5804B

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LED, Dot Matrix Displays

Fig. 1 – 0.7" 5 x 7 Matrix

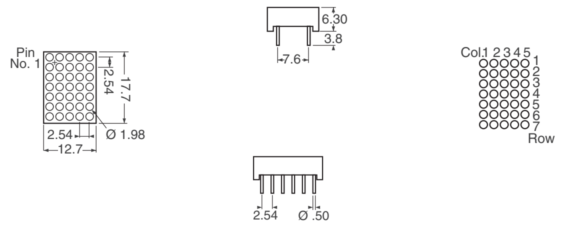

Fig. 2 – 2.0" 5 x 7 Matrix

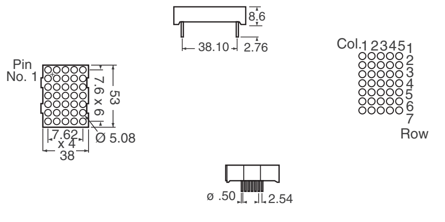

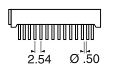

◊ Use this dim. for Digi-Key Part No. 160-1009-ND (Green/Orange LED)

Fig. 3 – 2.3" 5 x 8 Matrix

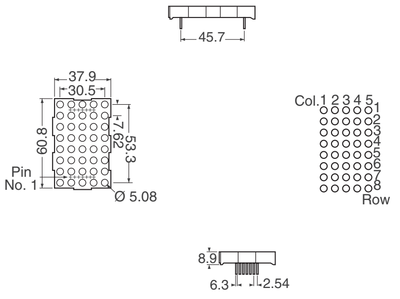

Fig. 4 – 2.0" 4 x 4 Bicolor Matrix

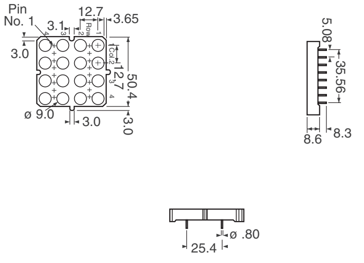

Fig. 5 – 1.2" 5 x 7 Matrix

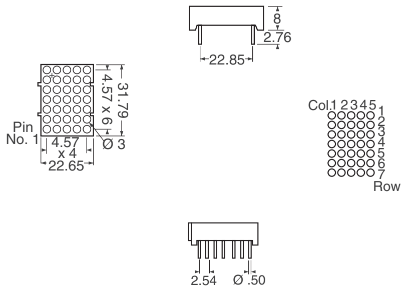

Fig.	Color	Peak Wavelength (nm)	Typ. Vf (V) (If = 20mA)	Max Average If (mA)	Typ. Iv (mcd)	Digi-Key Part No. Anode Row/ Cathode Column	Digi-Key Part No. Cathode Row/ Anode Column	Price Each 1	25	50	Lite-On Part No. Anode Row/ Cathode Column	Lite-On Part No. Cathode Row/ Anode Column
						Standard LED Dot Matrix Displays						
1	Green	565	2.1	11	2.0§	160-1002-ND◆	—	3.13	2.82	2.50	LTP-757G	—
	Hi. Eff. Red	635	2.0	10	2.0§	160-1003-ND◆	—	3.75	3.38	3.00	LTP-757HR	—
2	Green/Red-Orange	565/630	2.1/2.0	13/13	4.8§	160-1009-ND◆◊	—	6.58	5.92	5.26	LTP-2757AA	—
3	Hi. Eff. Red	635	2.1	10	4.8§	160-1014-ND◆	—	5.43	4.89	4.34	LTP-2158AHR	—
4	Green/Red-Orange	565/630	6.3/6.3	18/18	11†	160-1015-ND	—	13.45	12.11	10.76	LTP-2044A3-NB	—
						AlInGaP LED Dot Matrix Displays						
1	Super Red	639	2.0	13	3.4‡	160-1555-5-ND◆	160-1554-5-ND◆	3.83	3.45	3.06	LTP-757KR	LTP-747KR
	Red-Orange	621	2.05	13	3.4‡	160-1553-5-ND◆	160-1552-5-ND◆	3.83	3.45	3.06	LTP-757KA	LTP-747KA
	Yellow	595	2.05	13	3.4‡	160-1557-5-ND◆	160-1556-5-ND	3.83	3.45	3.06	LTP-757KY	LTP-747KY
5	Super Red	639	2.1	13	3.8‡	160-1567-5-ND◆	—	4.22	3.80	3.38	LTP-1557AKR	—
	Red-Orange	621	2.05	13	3.8‡	160-1565-5-ND	160-1564-5-ND◆	4.50	4.05	3.60	LTP-1557AKA	LTP-1457AKA
	Yellow	595	2.05	13	3.8‡	—	160-1568-5-ND	4.50	4.05	3.60	—	LTP-1457AKY
2	Super Red	639	2.0	13	4.6‡	160-1561-5-ND◆	160-1560-5-ND	4.95	4.46	3.96	LTP-2157AKR	LTP-2057AKR
	Red-Orange	621	2.05	13	4.6‡	160-1559-5-ND	160-1558-5-ND◆	4.95	4.46	3.96	LTP-2157AKA	LTP-2057AKA
	Yellow	595	2.05	13	4.6‡	160-1563-5-ND	160-1562-5-ND◆	4.95	4.46	3.96	LTP-2157AKY	LTP-2057AKY

◆ ***RoHS Compliant*** § 80mA, 1/16 duty cycle † 48mA, 1/8 duty cycle ‡ 32mA, 1/16 duty cycle ◊ See drawing for physical dimensions.

.8" Big Lamps with Universal Sphere Lens

Features:

- High luminous intensity
- Categorized for luminous intensity
- Excellent on-off contrast
- Operating Temperature Range: -25°C ~ 85°C

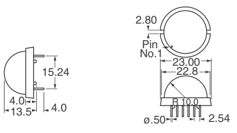

Color	If Peak per chip (mA)	If Cont. per chip (mA)	Digi-Key Part No.	Pricing 1	10	100
Green	100	25	160-1025-ND	2.10	17.50	140.00
Hi. Eff. Red	100	25	160-1026-ND	2.10	17.50	140.00
Yellow	80	20	160-1027-ND	2.10	17.50	140.00

Absolute Max. Ratings at T_A = 25°C, VF = 2.1, VR = 5V

Bar Graph Array

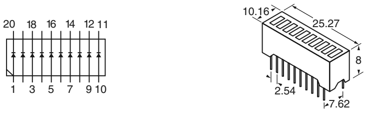

Color	Continuous Forward Current	Forward Voltage (Vf)	Digi-Key Part No.	Pricing 1	10	100
Hi. Eff. Red	25	2.1	160-1066-ND	1.05	8.75	70.00
Green	25	2.1	160-1067-ND	1.05	8.75	70.00
Yellow	20	2.1	160-1068-ND	1.05	8.75	70.00

Fig. 1

Alphanumeric Displays

FEATURES:

- Low power requirements
- Excellent character appearance
- High contrast and brightness
- Wide viewing angle
- Categorized for luminous intensity

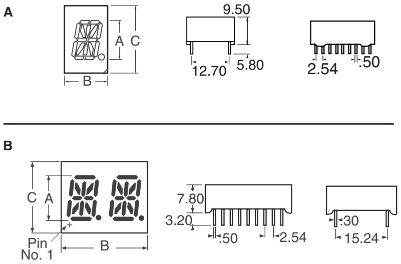

Fig. 2

Ultra-Large 7-Segment Displays

FEATURES:

- Continuous uniform segments
- Excellent character appearance
- High contrast & brightness
- Wide viewing angle
- Categorized for luminous intensity

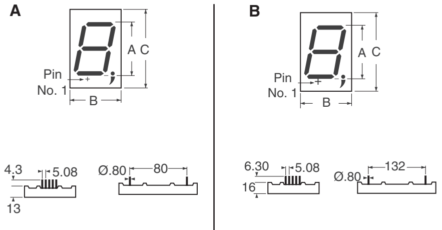

3” (76.20mm) Size ***5” (127.00mm) Size***

Fig.	Description	Digit Size In. (mm) (A)	Dimensions (mm) (B) x (C)	Emitted Color	Face Color	Peak Wavelength (nm)	Vf Per segment (V) Typ. (D.P.)	If Continuous (mA) Max.	Typ. Iv (ucd)	@ If (mA)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Pricing 1	25	100
1-Digit LED Alphanumeric Displays — RoHS Compliant															
1A	Direct Drive	.50 (12.7)	16.00 x 25.00	Hi. Eff. Red	Red	635	2.0	25	2200	10	160-1108-ND	—	2.13	47.81	148.75
		.50 (12.7)	16.00 x 25.00	Yellow	Black	585	2.1	20	2200	10	160-1107-ND	—	2.13	47.81	148.75
		.50 (12.7)	16.00 x 25.00	Green	Black	565	2.1	25	2200	10	160-1106-ND	—	2.13	47.81	148.75
2-Digit LED Alphanumeric Displays — RoHS Compliant															
1B	Duplex	.54 (13.8)	25.2 x 21.15	Red-Orange	Gray	630	2.0	25	2300	10	160-1011-ND	160-1010-ND	3.15	70.88	220.50
		.54 (13.8)	25.2 x 21.15	Green	Gray	565	2.1	25	2300	10	160-1013-ND	160-1012-ND	3.15	70.88	220.50
Ultra-Large 7-Segment LED Numeric Displays															
2A	Direct Drive	3.0 (76.20)	70.00 x 110.0	Hi. Eff. Red	Black	635	12.0 (4.0)	40	30000	20	160-1018-ND◆	—	15.76	285.65	985.00
		3.0 (76.20)	70.00 x 110.0	Green	Black	565	12.6 (4.2)	40	30000	20	160-1020-ND	160-1019-ND	16.80	304.50	1050.00
2B	Direct Drive	5.0 (127.0)	108.0 x 180.0	Hi. Eff. Red	Black	635	20.0 (4.0)	60	60000	30	160-1022-ND◆	160-1021-ND◆	36.26	657.21	2266.25

Absolute Maximum Ratings at T_A = 25°C ◆ ***RoHS Compliant***

Seven Segment Displays

Fig. 1

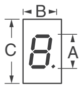

Fig. 2

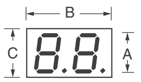

Fig. 3

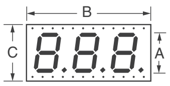

Fig. 4

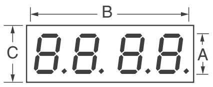

Fig.	Description	Digit Size In. (mm) (A)	Dimensions (mm) (B) x (C)	Emitted Color	Face Color	Peak Wavelength (nm)	Vf Per segment (V) Typ.	If Continuous (mA) Max.	Typ. Iv (ucd)	@ If (mA)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each 1	25	100
AlInGap Seven-Segment Single-Digit Displays															
1	Direct Drive	.39 (10.0)	9.70 x 12.90	Super Red	Lt. Gray	639	2.00	25	650	1	160-1527-5-ND◆	—	.68	.50	.43
		.39 (10.0)	9.70 x 12.90	Yellow-Orange	Lt. Gray	611	2.05	25	650	1	160-1526-5-ND◆	—	.67	.49	.42
		.39 (10.0)	9.70 x 12.90	Yellow	Lt. Gray	588	2.05	25	650	1	160-1525-5-ND◆	—	.67	.49	.42
		.39 (10.0)	9.70 x 12.90	Super Red	Gray	639	2.00	25	520	1	160-1532-5-ND◆	160-1533-5-ND◆	.72	.53	.45
		.39 (10.0)	9.70 x 12.90	Yellow-Orange	Gray	611	2.05	25	650	1	160-1530-5-ND	160-1531-5-ND	.72	.53	.45
		.39 (10.0)	9.70 x 12.90	Yellow	Gray	588	2.05	25	867	1	160-1528-5-ND◆	160-1529-5-ND◆	.72	.53	.45
Blue Seven-Segment Single-Digit Displays — RoHS Compliant															
1	Direct Drive	.28 (7.00)	7.4 x 10.0	Blue	Gray	428	3.8	25	3000	10	160-1513-5-ND	160-1514-5-ND	3.62	2.63	2.27
		.39 (10.00)	9.70 x 12.9	Blue	Gray	428	3.8	25	3600	10	160-1515-5-ND	160-1516-5-ND	3.70	2.69	2.32
		.56 (14.22)	12.4 x 17.1	Blue	Gray	428	3.8	25	4300	10	160-1517-5-ND	160-1518-5-ND	3.66	2.66	2.29
AlInGap Seven-Segment Dual-Digit Displays															
2	Duplex	.39 (10.0)	19.86 x 12.8	Super Red	Gray	639	2.00	25	850	1	160-1538-5-ND◆	160-1539-5-ND◆	1.20	.87	.75
		.39 (10.0)	19.86 x 12.8	Yellow-Orange	Gray	611	2.05	25	650	1	160-1536-5-ND◆	160-1537-5-ND	1.20	.87	.75
		.39 (10.0)	19.86 x 12.8	Yellow	Gray	588	2.05	25	650	1	160-1534-5-ND	160-1535-5-ND	1.20	.87	.75
Blue Seven-Segment Dual-Digit Displays															
2	Duplex	.28 (7.00)	15.02 x 10.00	Blue	Gray	428	3.8	25	3000	10	160-1519-5-ND	160-1520-5-ND◆	7.24	5.25	4.53
		.39 (10.0)	19.86 x 12.8	Blue	Gray	428	3.8	25	3600	10	160-1521-5-ND◆	160-1522-5-ND◆	7.32	5.31	4.58
		.56 (14.22)	25.0 x 17.1	Blue	Gray	428	3.8	25	4300	10	160-1523-5-ND◆	160-1524-5-ND◆	7.33	5.32	4.59
AlInGap Seven-Segment Triple-Digit Displays															
3	Multiplex	.39 (10.0)	30.02 x 12.8	Super Red	Gray	639	2.00	25	650	1	160-1544-5-ND◆	160-1545-5-ND◆	2.16	1.57	1.35
		.39 (10.0)	30.02 x 12.8	Yellow-Orange	Gray	611	2.05	25	650	1	—	160-1543-5-ND◆	2.16	1.57	1.35
		.39 (10.0)	30.02 x 12.8	Yellow	Gray	588	2.05	25	650	1	160-1540-5-ND	160-1541-5-ND◆	2.15	1.57	1.35
AlInGap Seven-Segment Quad-Digit Displays — RoHS Compliant															
4	Multiplex	.39 (10.0)	40.18 x 12.8	Super Red	Gray	639	2.00	25	650	1	160-1550-5-ND	160-1551-5-ND	2.40	1.74	1.50
		.39 (10.0)	40.18 x 12.8	Yellow-Orange	Gray	611	2.05	25	650	1	160-1548-5-ND	160-1549-5-ND	2.40	1.74	1.50
		.39 (10.0)	40.18 x 12.8	Yellow	Gray	588	2.05	25	650	1	160-1546-5-ND	160-1547-5-ND	2.40	1.74	1.50

Fig.	Description	Digit Size In. (mm) (A)	Dimensions (mm) (B) x (C)	Emitted Color	Face Color	Peak Wavelength (nm)	Vf Per segment (V) Typ.	If Continuous (mA) Max.	Typ. Iv (ucd)	@ If (mA)	Digi-Key Part No.	Price Each 1	25	100
Common Anode — RoHS Compliant														
1	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	632	2.1	25	12,000	10	160-1571-5-ND	.68	.50	.43
		.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	650	2.1	25	9,000	10	160-1572-5-ND	.66	.48	.42
		.30 (7.62)	7.62 x 12.7	Green	Gray	565	2.1	25	1,600	10	160-1577-5-ND	.80	.58	.50
		.39 (10.0)	9.7 x 12.9	Red	Lt. Gray	650	2.1	25	9,750	10	160-1578-5-ND	.74	.54	.47
		.56 (14.22)	12.4 x 17.1	Green	Gray	565	2.1	25	2,400	10	160-1575-5-ND	.66	.48	.42
Common Cathode — RoHS Compliant														
1	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	632	2.1	25	12,000	10	160-1570-5-ND	.86	.63	.54
		.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	650	2.1	25	9,000	10	160-1573-5-ND	.86	.63	.54
		.30 (7.62)	7.62 x 12.7	Green	Gray	565	2.1	25	1,600	10	160-1574-5-ND	.80	.58	.50
		.56 (14.22)	12.4 x 17.1	Red	Lt. Gray	632	2.1	25	17,000	10	160-1576-5-ND	.88	.64	.55

◆ ***RoHS Compliant***

LITEON LEDs

Dimensions in mm

Fig. 1

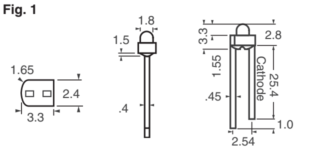

Fig. 2

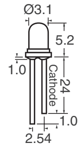

Fig. 3

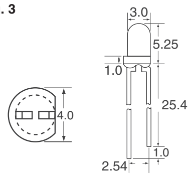

Fig. 4

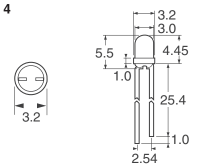

Fig. 5

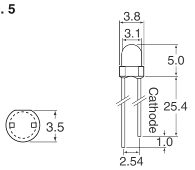

Fig. 6

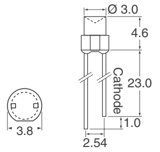

Fig. 7

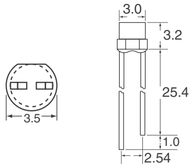

Fig. 8

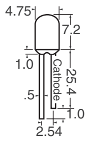

Fig. 9

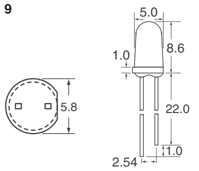

Fig. 10

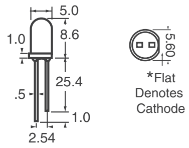

Fig. 11

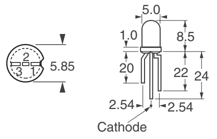

Fig. 12

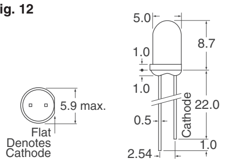

Fig. 13

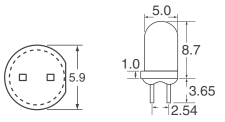

Fig. 14

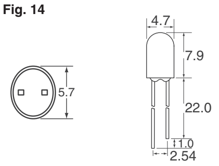

Fig. 15

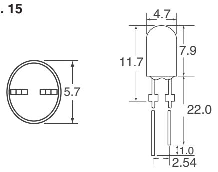

Fig. 16

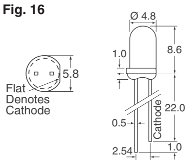

Fig. 17

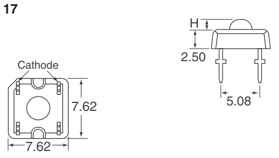

Part No.	H
LTL911xxx	1.50
LTL912xxx	1.90
LTL914xxx	1.90

Fig. 18

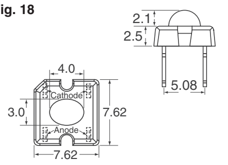

Fig. 19

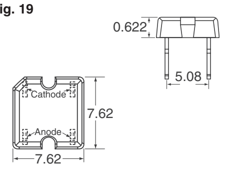

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typical (V)	If Max. (mA)	Iv Typical (mcd)	@ (mA)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Lite-On Part No.
1	1.8mm - Dot Point	Hi-Eff. Red	Red Diff.	635	2.0	30	12.6	10	38	160-1084-ND◆	.17	1.38	11.00	LTL-709E
		Yellow	Yellow Diff.	585	2.1	20	12.6	10	38	160-1085-ND◆	.17	1.38	11.00	LTL-709Y
		STD. Green	Green Diff.	560	2.1	30	8.7	10	38	160-1086-ND◆	.24	2.00	16.00	LTL-709L
2	T-1 - Double Flange	Super Red	Water Clear	639	2.0	30	250	20	45	160-1661-ND◆	.13	1.08	8.60	LTL1CHKRKNN
		Hi-Eff. Red	Red Diff.	635	2.0	30	12.6	10	60	160-1708-ND◆	.09	.73	5.80	LTL-1CHE
		Hi-Eff. Red	Red Trans.	635	2.0	30	19	10	45	160-1704-ND◆	.09	.73	5.80	LTL-1CHEE
		Amber-Yellow	Water Clear	595	2.05	30	320	20	45	160-1664-ND◆	.13	1.08	8.60	LTL1CHKYKNN
		Amber-Yellow	Water Clear	595	2.05	30	339	20	45	160-1663-ND◆	.13	1.08	8.60	LTL1CHKYK
		Yellow	Water Clear	588	2.05	30	320	20	45	160-1662-ND◆	.13	1.08	8.60	LTL1CHKSKNN
		Yellow	Yellow Trans.	585	2.1	20	40	10	45	160-1709-ND◆	.09	.73	5.80	LTL-1CHYE
		Green	Water Clear	575	2.05	30	320	20	45	160-1659-ND◆	.14	1.15	9.20	LTL1CHKGKNN
		Green	Green Diff.	565	2.1	30	12.6	10	60	160-1710-ND◆	.09	.73	5.80	LTL-1CHG
		Blue	Water Clear	468	3.5	30	180	20	35	160-1604-ND◆	1.40	11.68	93.40	LTL1CHCBK3
		Blue	Water Clear	468	4.0	30	310	20	30	160-1600-ND◆	.60	5.00	40.00	LTL1CHTBK2
		Blue	Water Clear	468	3.7	30	400	20	30	160-1605-ND	1.57	13.08	104.60	LTL1CHCBK4
		Blue	Water Clear	468	3.5	30	520	20	30	160-1601-ND◆	.65	5.45	43.60	LTL1CHTBK3
		Blue	Water Clear	468	3.5	30	680	20	30	160-1602-ND◆	.73	6.10	48.80	LTL1CHTBK4
		Blue	Water Clear	468	3.7	30	680	20	30	160-1606-ND	1.96	16.33	130.60	LTL1CHCBK5
		Blue	Water Clear	468	3.5	30	880	20	30	160-1603-ND◆	.92	7.63	61.00	LTL1CHTBK5
3	T-1	Red	Water Clear	632	2.05	30	880	20	22	160-1665-ND◆	.12	1.00	8.00	LTL42EKEKNN
		Green	Green Diff.	565	2.1	30	12.6	10	40	160-1712-ND◆	.09	.73	5.80	LTL-4231
		White	Water Clear	—	3.6	100	2,600	30	25	160-1727-5-ND◆	1.29	10.78	86.20	LTW-420C5
		White	Water Clear	—	3.3	30	5,000	20	25	160-1782-ND◆ ***NEW!***	.39	3.28	26.20	LTW-420D7
4	T-1 - Ultrabright	Red	Red Diff.	660	1.8	40	60	20	60	160-1035-ND◆	.20	1.68	13.40	LTL-4261N
		Red	Water Clear	660	1.8	40	170	20	45	160-1034-ND◆	.19	1.55	12.40	LTL-4266N
	T-1	Super Red	Water Clear	639	2.0	30	180	20	56	160-1668-ND◆	.13	1.08	8.60	LTL42NKRKNN
		Hi-Eff. Red	Red Trans.	635	2.0	30	29	10	45	160-1140-ND◆	.19	1.45	10.15	LTL-4222N
		Hi-Eff. Red	Red Diff.	635	2.0	30	8.7	10	60	160-1139-ND◆	.19	1.45	10.15	LTL-4221N
		Red	Water Clear	632	2.05	30	250	20	56	160-1667-ND◆	.13	1.08	8.60	LTL42KE6N
		Red-Orange	Water Clear	630	2.0	30	60	10	45	160-1141-ND◆	.19	1.45	10.15	LTL-4296N
	T-1 - Bi-Color	Red-Orange/Green	White Diff.	630/565	2.0/2.1	30/30	4.8/4.8	20	200	160-1058-ND◆	.35	2.93	23.40	LTL-14CHJ
	T-1	Yellow	Yellow Trans.	585	2.1	20	19	10	45	160-1146-ND◆	.19	1.45	10.15	LTL-4252N
		Yellow	Water Clear	585	2.1	20	40	10	45	160-1147-ND◆	.19	1.45	10.15	LTL-4256N
		Yellow	Yellow Diff.	585	2.1	20	5.6	10	60	160-1145-ND◆	.19	1.45	10.15	LTL-4251N
		Green	Green Trans.	565	2.1	30	40	10	45	160-1143-ND◆	.19	1.45	10.15	LTL-4232N
		Green	Water Clear	565	2.1	30	40	10	45	160-1144-ND◆	.19	1.45	10.15	LTL-4236N
		Green	Green Diff.	565	2.1	30	12.6	10	60	160-1142-ND◆	.19	1.45	10.15	LTL-4231N
		White	Water Clear	—	3.5	100	1,100	30	45	160-1734-5-ND◆	1.29	10.78	86.20	LTW-42NC5
5	3.8mm	White	Water Clear	—	3.5	100	520	30	90	160-1730-5-ND◆	1.29	10.78	86.20	LTW-1KHC5
6	T-1 - Flat Top	White	Water Clear	—	3.5	100	85	30	130	160-1736-5-ND◆	1.20	10.00	80.00	LTW-815C4
7	T-1 - Flat Top	White	Water Clear	—	3.5	100	140	30	140	160-1735-5-ND◆	1.20	10.00	80.00	LTW-77HC4
8	T-1 3/4 - No Flange	Hi-Eff. Red	Red Diff.	635	2.0	30	60	10	60	160-1087-ND◆	—	.73	5.80	LTL-10223W
		Yellow	Yellow Diff.	585	2.1	20	12.6	10	60	160-1088-ND◆	—	.73	5.80	LTL-10253W
		Green	Green Diff.	565	2.1	30	40	10	60	160-1089-ND◆	—	.73	5.80	LTL-10233W
	T-1 3/4	White	Water Clear	—	3.5	100	6,000	30	20	160-1729-5-ND◆	1.20	10.00	80.00	LTW-102C4
9	T-1 3/4 - Tapered	Super Red	Water Clear	639	1.9	50	4,200	20	12	160-1698-ND◆	.24	2.03	16.20	LTL353QRKNN
		Green	Water Clear	525	3.5	30	6,000	20	8	160-1717-ND◆	.92	7.70	61.60	LTL-353TGK

◆ ***RoHS Compliant***

(Continued)

LITEON **LEDs** *(Cont.)*

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typical (V)	If Max. (mA)	Iv Typical (mcd)	@ (mA)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing			Lite-On Part No.
											1	10	100	
9	T-1 3/4 - Tapered	Blue	Water Clear	468	3.5	30	1,900	20	8	160-1716-ND◆	.92	7.70	61.60	LTL-353TBK
	T-1 3/4	White	Water Clear	—	3.5	100	2,600	30	30	160-1733-5-ND◆	1.39	11.55	92.40	LTW-2V3C5
10	T-1 3/4 - Bi-Color	Red-Orange/Green	White Diff.	565/630	2.1/2.0	30/30	19/19	20	50	160-1037-ND◆	.35	2.93	23.40	LTL-298WJ
	T-1 3/4 - Ultrabright Bi-Color	Red/Green	White Diff.	660/565	1.8/2.1	40/30	90/40	20	60	160-1038-ND◆	.37	3.05	24.40	LTL-293SJW
	T-1 3/4	Red	Red Diff.	697	2.1	15	3.7	10	36	160-1713-ND◆	.09	.73	5.80	LTL-4213
		Hi. Eff. Red	Red Trans.	635	2.0	30	90	10	16	160-1128-ND◆	.19	1.45	10.15	LTL-4224
		Hi. Eff. Red	Red Diff.	635	2.0	30	19	10	36	160-1127-ND◆	.19	1.45	10.15	LTL-4223
		Yellow	Yellow Trans.	585	2.1	20	90	10	16	160-1134-ND◆	.19	1.45	10.15	LTL-4254
		Yellow	Yellow Diff.	585	2.1	20	19	10	36	160-1133-ND◆	.19	1.45	10.15	LTL-4253
		Green	Green Trans.	565	2.1	30	60	10	16	160-1131-ND◆	.14	1.10	7.70	LTL-4234
		Green	Water Clear	565	2.1	30	90	10	16	160-1132-ND◆	.19	1.45	10.15	LTL-4238
		Green	Green Diff.	565	2.1	30	19	10	36	160-1130-ND◆	.19	1.45	10.15	LTL-4233
11	T-1 3/4 - Ultrabright Bi-Color	Red/Green	White Diff.	697/565	2.1	15/30	5.6/19	10	30	160-1715-ND◆	.35	2.93	23.40	LTL-30EFJ
		Red-Orange/Green	White Diff.	630/565	2.0/2.1	30/30	40/29	20	30	160-1057-ND◆	.35	2.93	23.40	LTL-30EHJ
		Yellow/Green	White Diff.	585/565	2.1	20/30	29/29	20	30	160-1714-ND◆	.35	2.93	23.40	LTL-30EDJ
12	T-1 3/4	Super Red	Water Clear	639	2.0	30	800	20	22	160-1678-ND◆	.13	1.08	8.60	LTL2P3KRK
		Super Red	Water Clear	639	2.0	30	500	20	30	160-1685-ND◆	.13	1.08	8.60	LTL2R3KRK
		Super Red	Water Clear	639	1.9	50	500	20	30	160-1689-ND	.32	2.70	21.60	LTL2R3QRK
		Super Red	Water Clear	639	1.9	50	990	20	30	160-1498-ND◆	.29	2.43	19.40	LTL-2R3VRKNT
		Super Red	Water Clear	639	2.2	50	3,200	20	30	160-1658-ND◆	.41	3.45	27.60	LTL2R3SRKNE
		Hi-Eff. Red	Red Diff.	635	2.0	30	19	10	50	160-1705-ND◆	.09	.73	5.80	LTL-307E
		Hi-Eff. Red	Red Trans.	635	2.0	30	90	10	40	160-1701-ND◆	.09	.73	5.80	LTL-307EE
		Red	Red Diff.	697	2.1	15	5.6	10	50	160-1707-ND◆	.09	.73	5.80	LTL-307P
		Red	Water Clear	639	2.0	50	6,350	20	15	160-1652-ND◆	.41	3.45	27.60	LTL2H3SEK
		Red	Water Clear	639	2.0	50	4,800	20	22	160-1654-ND◆	.33	2.75	22.00	LTL2P3SEK
		Red	Water Clear	639	2.0	50	3,700	20	30	160-1656-ND◆	.41	3.45	27.60	LTL2R3SEK
		Red	Water Clear	632	2.05	30	1,700	20	15	160-1669-ND◆	.13	1.08	8.60	LTL2H3KEK
		Red	Water Clear	632	2.0	50	3,100	20	15	160-1672-ND◆	.32	2.63	21.00	LTL2H3VEKNT
		Red	Water Clear	632	2.05	30	700	20	30	160-1682-ND◆	.13	1.08	8.60	LTL2R3KEK
		Red	Water Clear	632	2.0	50	1,200	20	30	160-1499-ND◆	.29	2.43	19.40	LTL-2R3VEKNT
		Red-Orange	Water Clear	621	2.0	50	3,400	20	15	160-1671-ND	.32	2.63	21.00	LTL2H3VAKNT
		Red-Orange	Water Clear	621	2.05	30	700	20	30	160-1681-ND◆	.13	1.08	8.60	LTL2R3KAK
		Super Orange	Water Clear	621	2.0	50	1,300	20	30	160-1501-ND◆	.29	2.43	19.40	LTL-2R3VAKNT
		Yellow-Orange	Water Clear	611	2.0	50	3,400	20	15	160-1673-ND◆	.32	2.63	21.00	LTL2H3VFKNT
		Yellow-Orange	Water Clear	611	2.0	50	700	20	30	160-1688-ND	.32	2.70	21.60	LTL2R3QFK
		Yellow-Orange	Water Clear	611	2.05	30	700	20	30	160-1683-ND◆	.13	1.08	8.60	LTL2R3KFK
		Yellow-Orange	Water Clear	611	2.0	50	1,300	20	30	160-1502-ND◆	.29	2.43	19.40	LTL-2R3VFKNT
		Amber-Yellow	Water Clear	595	2.0	50	7,800	20	8	160-1496-ND◆	.32	2.63	21.00	LTL-2F3VYKNT
		Amber-Yellow	Water Clear	595	2.0	50	3,400	20	15	160-1676-ND◆	.32	2.63	21.00	LTL2H3VYKNT
		Amber-Yellow	Water Clear	598	2.0	50	1,300	20	30	160-1503-ND◆	.25	2.10	16.80	LTL-2R3VYKNT
		Amber-Yellow	Water Clear	595	2.0	50	700	20	30	160-1690-ND	.32	2.70	21.60	LTL2R3QYK
		Amber-Yellow	Water Clear	595	2.05	30	700	20	30	160-1687-ND◆	.13	1.08	8.60	LTL2R3KYK
		Amber	Water Clear	594	2.15	50	5,500	20	15	160-1653-ND◆	.41	3.45	27.60	LTL2H3SYK
		Amber	Water Clear	594	2.15	50	2,800	20	30	160-1657-ND◆	.41	3.38	27.00	LTL2R3SYK
		Yellow	Water Clear	588	2.0	50	3,100	20	15	160-1675-ND◆	.32	2.63	21.00	LTL2H3VSKNT
		Yellow	Water Clear	588	2.05	30	1,700	20	15	160-1670-ND◆	.13	1.08	8.60	LTL2H3KSK
		Yellow	Water Clear	588	2.05	30	700	20	30	160-1686-ND◆	.13	1.08	8.60	LTL2R3KSK
		Yellow	Water Clear	588	2.0	50	1,200	20	30	160-1504-ND◆	.29	2.43	19.40	LTL-2R3VSKNT
		Yellow	Yellow Diff.	585	2.1	20	29	10	50	160-1703-ND◆	.09	.73	5.80	LTL-307Y
		Green	Water Clear	574	2.1	30	980	20	22	160-1677-ND◆	.15	1.25	10.00	LTL2P3KGKNN
		Green	Green Diff.	574	2.1	30	150	20	40	160-1684-ND◆	.15	1.25	10.00	LTL2R3KG
		Green	Green Diff.	565	2.1	30	19	10	50	160-1706-ND◆	.09	.73	5.80	LTL-307G
		Green	Green Trans.	565	2.1	30	60	10	40	160-1702-ND◆	.09	.73	5.08	LTL-307GE
		Green	Water Clear	525	3.5	30	1,900	20	30	160-1615-ND◆	1.04	8.63	69.00	LTL2T3TGK6
		Blue	Water Clear	468	3.5	30	1,900	20	15	160-1611-ND◆	.84	7.00	56.00	LTL2P3TBK5
		Blue	Water Clear	468	4.0	30	240	20	30	160-1607-ND◆	.52	4.30	34.40	LTL2T3TBK2
		Blue	Water Clear	468	3.5	30	400	20	30	160-1608-ND	.56	4.63	37.00	LTL2T3TBK3
		Blue	Water Clear	468	3.5	30	680	20	30	160-1609-ND◆	.69	5.78	46.20	LTL2T3TBK4
		Blue	Water Clear	468	3.5	30	880	20	30	160-1610-ND◆	.83	6.93	55.40	LTL2T3TBK5
		White	Water Clear	—	3.3	100	13,000	30	15	160-1728-5-ND◆	.41	3.45	27.60	LTW-2S3D7
		White	Water Clear	—	3.5	100	4,200	30	15	160-1731-5-ND◆	1.20	10.00	80.00	LTW-2E3C4
		White	Water Clear	—	3.6	100	1,800	30	56	160-1732-5-ND◆	1.29	10.78	86.20	LTW-2H7C5S
		White	Water Clear	—	3.8	30	4,200	20	35	160-1772-ND◆	.41	3.45	27.60	LTW-2R3D7
13	T-1 3/4	Amber-Yellow	Water Clear	595	2.05	30	1,000	20	22	160-1679-ND◆	.13	1.08	8.60	LTL2P3KYKP
14	Oval - No Flange	Super Red	Water Clear	639	2.2	50	1,500	20	70 Hor./35 Vert.	160-1620-ND◆	.31	2.60	20.80	LTL5V3SRK
15	Oval - No Flange	Amber	Yellow Diff.	591	2.35	50	1,150	20	70 Hor./35 Vert.	160-1621-ND◆	.34	2.83	22.60	LTL5V3SSS
16	T-1 3/4	White	Water Clear	—	3.6	100	4,800	30	20	160-1726-5-ND◆	1.29	10.78	86.20	LTW-337C5
17	7.62mm - Square	Super Red	Water Clear	639	2.15	70	1,884	70	50	160-1509-ND	.44	3.65	29.20	LTL-912VRKSA
		Super Red	Water Clear	639	2.15	70	942	70	70	160-1505-ND◆	.41	3.45	27.60	LTL-911VRKSA
		Red	Water Clear	638	2.50	70	7,500	70	30	160-1631-ND◆	.51	4.23	33.80	LTL914SEKS
		Red	Water Clear	638	2.50	70	3,375	70	60	160-1625-ND◆	.46	3.85	30.80	LTL912SEKSA
		Red	Water Clear	638	2.50	70	2,250	70	90	160-1622-ND◆	.46	3.85	30.80	LTL911SEKSA
		Red	Water Clear	632	2.15	70	2,508	70	50	160-1510-ND◆	.41	3.45	27.60	LTL-912VEKSA
		Red	Water Clear	632	2.15	70	1,254	70	70	160-1506-ND◆	.41	3.45	27.60	LTL-911VEKSA
		Red-Orange	Water Clear	624	2.15	70	2,508	70	50	160-1511-ND	.44	3.65	29.20	LTL-912VHKSA
		Amber	Water Clear	598	2.15	70	2,508	70	50	160-1512-ND◆	.41	3.45	27.60	LTL-912VYKSA
		Amber	Water Clear	598	2.15	70	1,254	70	70	160-1508-ND◆	.41	3.45	27.60	LTL-911VYKSA
		Amber	Water Clear	596	2.50	70	4,180	70	30	160-1632-ND	.51	4.23	33.80	LTL914SYKS
		Amber	Water Clear	596	2.50	70	1,254	70	90	160-1624-ND◆	.46	3.85	30.80	LTL911SYKSA
		Blue	Water Clear	465	4.3	50	630	50	56	160-1636-ND	1.89	15.78	126.20	LTL911CBKS5
		Blue	Water Clear	465	4.0	50	770	50	60	160-1639-ND	1.76	14.63	117.00	LTL912TBKS
18	7.62mm Square - Oval	Red	Water Clear	638	2.50	70	3,000	70	100 Hor./40 Vert.	160-1628-ND	.56	4.63	37.00	LTL913SEKS
		Amber	Water Clear	596	2.50	70	1,672	70	100 Hor./40 Vert.	160-1630-ND	.56	4.63	37.00	LTL913SYKS
19	7.62mm - Square	Blue	Water Clear	465	4.0	50	165	50	120	160-1641-ND	1.89	15.78	126.20	LTL915TBKS

◆ ***RoHS Compliant***

LITEON Surface Mount LEDs

Fig. 1 — 1206

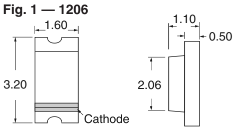

Fig. 2 — 1210

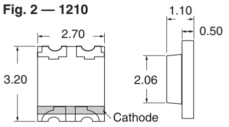

Fig. 3 — 0805

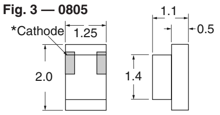

* Anode on part 160-1176-1

Fig. 4 — 0805

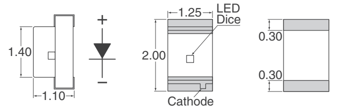

Fig. 5 — 0805 Super Thin

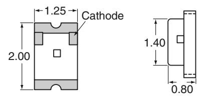

Fig. 6 — 0603

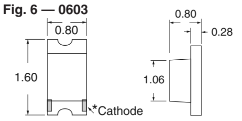

* Anode on part 160-1181-1

Fig. 7 — 0603

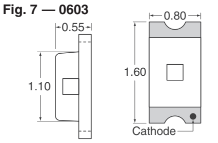

Fig. 8 — 0603 Super Thin

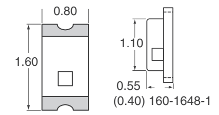

Fig. 9 — 0603 Super Thin

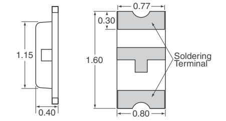

Fig. 10 — 0605 Dual LED

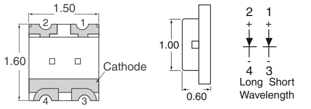

Fig. 11 — 1206 (Rear Mount)

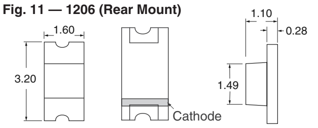

Fig. 12

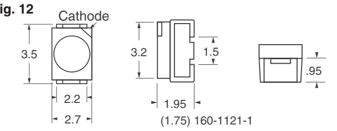

Fig. 13 — 0805 Right Angle

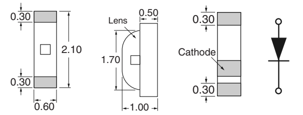

Fig. 14 — 0603 Right Angle

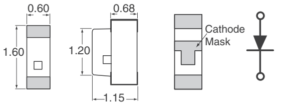

Fig. 15 — 1208 Right Angle

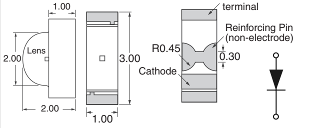

Fig. 16 — Domed

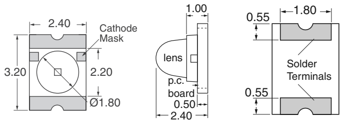

Fig. 17

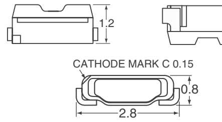

Fig. 18

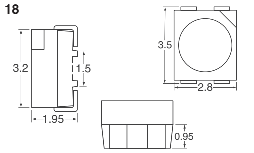

Standard Surface Mount LEDs

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typical (V)	If (mA) Max.	Iv Typical (mcd)	@ mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Tape and Reel Pricing	Lite-On Part No.
1	Red	Water Clear	660	1.8	40	25	20	130	160-1167-1-ND	.09	.75	6.00	160-1167-2-ND	3,000	45.00/M	LTST-C150CKT
	Red Orange		630	2.0	30	6	10	130	160-1168-1-ND	.11	.88	7.00	160-1168-2-ND	3,000	52.50/M	LTST-C150EKT
	Amber		610	2.1	30	6	10	130	160-1166-1-ND	.11	.88	7.00	160-1166-2-ND	3,000	52.50/M	LTST-C150AKT
	Yellow		585	2.1	20	6	10	130	160-1170-1-ND	.11	.88	7.00	160-1170-2-ND	3,000	52.50/M	LTST-C150YKT
	Green		565	2.1	30	6	10	130	160-1169-1-ND	.08	.70	5.60	160-1169-2-ND	3,000	42.00/M	LTST-C150GKT
	White	Yellow	—	3.2	100	260	20	130	160-1737-1-ND	.32	2.70	21.60	160-1737-2-ND	3,000	162.00/M	LTW-150TK
2	Green/Yellow	Water Clear	565/585	2.1/2.1	30/20	7/6	10	130/130	160-1171-1-ND	.17	1.45	11.60	160-1171-2-ND	3,000	87.00/M	LTST-C155GYKT
	Green/Red Orange		565/630	2.1/2.0	30/30	7/6	10	130/130	160-1172-1-ND	.17	1.45	11.60	160-1172-2-ND	3,000	87.00/M	LTST-C155GEKT
3	Red	Water Clear	660	1.8	40	10	10	130	160-1176-1-ND	.13	.96	8.00	160-1176-2-ND	3,000	48.00/M	LTST-C170CKT
	Red Orange		630	2.0	30	2	10	130	160-1178-1-ND	.11	.93	7.40	160-1178-2-ND	3,000	55.50/M	LTST-C170EKT
	Amber		610	2.1	30	2	10	130	160-1177-1-ND	.11	.93	7.40	160-1177-2-ND	3,000	55.50/M	LTST-C170AKT
	Yellow		585	2.1	20	6	10	130	160-1175-1-ND	.11	.93	7.40	160-1175-2-ND	3,000	55.50/M	LTST-C170YKT
	Green		565	2.1	30	6	10	130	160-1179-1-ND	.09	.73	5.80	160-1179-2-ND	3,000	43.50/M	LTST-C170GKT
4	White	Yellow	—	3.3	100	281	20	130	160-1738-1-ND	.32	2.70	21.60	160-1738-2-ND	3,000	162.00/M	LTW-170TK
5	Red	Water Clear	660	1.8	40	25	20	130	160-1421-1-ND	.15	1.14	9.50	160-1421-2-ND	3,000	57.00/M	LTST-C171CKT
	Red Orange		630	2.0	30	6	20	130	160-1422-1-ND	.14	1.05	8.75	160-1422-2-ND	3,000	52.50/M	LTST-C171EKT
	Amber		610	2.1	30	4.5	20	130	160-1419-1-ND	.14	1.05	8.75	160-1419-2-ND	3,000	52.50/M	LTST-C171AKT
	Yellow		585	2.1	20	4.5	20	130	160-1431-1-ND	.14	1.05	8.75	160-1431-2-ND	3,000	52.50/M	LTST-C171YKT
	Green		565	2.1	30	12	20	130	160-1423-1-ND	.14	1.05	8.75	160-1423-2-ND	3,000	52.50/M	LTST-C171GKT
6	Red	Water Clear	660	1.8	40	10	10	130	160-1181-1-ND	.10	.83	6.60	160-1181-2-ND	3,000	49.50/M	LTST-C190CKT
	Red Orange		630	2.0	30	2	10	130	160-1182-1-ND	.09	.75	6.00	160-1182-2-ND	3,000	45.00/M	LTST-C190EKT
	Amber		610	2.1	30	2	10	130	160-1180-1-ND	.09	.75	6.00	160-1180-2-ND	3,000	45.00/M	LTST-C190AKT
	Yellow		585	2.1	20	6	10	130	160-1184-1-ND	.09	.75	6.00	160-1184-2-ND	3,000	45.00/M	LTST-C190YKT
	Green		565	2.1	30	6	10	130	160-1183-1-ND	.09	.75	6.00	160-1183-2-ND	3,000	45.00/M	LTST-C190GKT
7	White	Yellow	—	2.93	100	70	20	130	160-1724-1-ND	.32	2.70	21.60	160-1724-2-ND	3,000	162.00/M	LTW-C191TS5
8	Green	Water Clear	565	2.1	30	12	20	130	160-1443-1-ND	.14	1.05	8.75	160-1443-2-ND	5,000	52.50/M	LTST-C191GKT
9	White	Yellow	—	2.95	20	78	5	130	160-1721-1-ND	.28	2.30	18.40	160-1721-2-ND	3,000	138.00/M	LTW-C193TS5
	White		—	2.70	100	38	20	130	160-1741-1-ND	.32	2.70	21.60	160-1741-2-ND	3,000	162.00/M	LTW-C192TL2
	White		—	2.93	100	70	20	130	160-1742-1-ND	.32	2.70	21.60	160-1742-2-ND	3,000	162.00/M	LTW-C192TL5
	White		—	2.93	100	70	20	130	160-1743-1-ND	.32	2.70	21.60	160-1743-2-ND	3,000	162.00/M	LTW-C192TS5
11	Red	Water Clear	660	1.8	40	25	20	130	160-1186-1-ND	.12	1.00	8.00	160-1186-2-ND	3,000	60.00/M	LTST-C230CKT
	Red Orange		630	2.0	30	6	20	130	160-1187-1-ND	.11	.93	7.40	160-1187-2-ND	3,000	55.50/M	LTST-C230EKT
	Amber		610	2.1	30	4.5	20	130	160-1185-1-ND	.11	.93	7.40	160-1185-2-ND	3,000	55.50/M	LTST-C230AKT
	Yellow		585	2.1	20	4.5	20	130	160-1189-1-ND	.11	.93	7.40	160-1189-2-ND	3,000	55.50/M	LTST-C230YKT
	Green		565	2.1	30	14	20	130	160-1188-1-ND	.11	.93	7.40	160-1188-2-ND	3,000	55.50/M	LTST-C230GKT
12	Red	Water Clear	635	2.0	30	12.4	10	120	160-1222-1-ND	.17	1.29	10.75	160-1222-2-ND	2,000	64.50/M	LTST-T670EKT
	Amber		610	2.1	30	8	10	120	160-1121-1-ND	.27	2.28	18.20	—	—	—	LTL-94PAKTA
	Amber		610	2.1	30	12.4	10	120	160-1221-1-ND	.17	1.29	10.75	160-1221-2-ND	2,000	64.50/M	LTST-T670AKT
	Yellow		585	2.1	20	12.4	10	120	160-1224-1-ND	.17	1.29	10.75	160-1224-2-ND	2,000	64.50/M	LTST-T670YKT
	Green		565	2.1	30	20	10	120	160-1223-1-ND	.17	1.29	10.75	160-1223-2-ND	2,000	64.50/M	LTST-T670GKT
	White	Yellow	—	3.5	100	700	30	120	160-1725-1-ND	.46	3.85	30.80	160-1725-2-ND	2,000	231.00/M	LTW-670DS
13	Red Orange	Water Clear	630	2.0	30	4	20	130	160-1220-1-ND	.15	1.11	9.25	160-1220-2-ND	4,000	55.50/M	LTST-S220EKT
	Green		565	2.1	30	10	20	130	160-1218-1-ND	.15	1.11	9.25	160-1218-2-ND	4,000	55.50/M	LTST-S220GKT
14	Red Orange	Water Clear	630	2.0	30	4	20	130	160-1474-1-ND	.14	1.05	8.75	160-1474-2-ND	4,000	52.50/M	LTST-S270EKT
	Yellow		585	2.1	20	4	20	130	160-1482-1-ND	.14	1.05	8.75	160-1482-2-ND	4,000	52.50/M	LTST-S270YKT
	Green		565	2.1	30	10	20	130	160-1475-1-ND	.14	1.05	8.75	160-1475-2-ND	4,000	52.50/M	LTST-S270GKT
	White	Yellow	—	3.0	100	95	20	130	160-1739-1-ND	.32	2.70	21.60	160-1739-2-ND	4,000	162.00/M	LTW-270TLA
15	Red Orange	Water Clear	630	2.0	30	4	20	130	160-1208-1-ND	.16	1.20	10.00	160-1208-2-ND	3,000	60.00/M	LTST-S320EKT
	Yellow		585	2.1	20	4	20	130	160-1207-1-ND	.16	1.20	10.00	160-1207-2-ND	3,000	60.00/M	LTST-S320YKT
	Green		565	2.1	30	10	20	130	160-1206-1-ND	.16	1.20	10.00	160-1206-2-ND	3,000	60.00/M	LTST-S320GKT
16	Orange	Water Clear	630	2.0	30	25	10	25	160-1214-1-ND	.18	1.35	11.25	160-1214-2-ND	1,500	67.50/M	LTST-C930EKT
	Yellow		585	2.1	20	16	10	25	160-1213-1-ND	.18	1.35	11.25	160-1213-2-ND	1,500	67.50/M	LTST-C930YKT
	Green		565	2.1	30	40	10	25	160-1212-1-ND	.18	1.35	11.25	160-1212-2-ND	1,500	67.50/M	LTST-C930GKT

(Continued)

Blue Surface Mount LEDs

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If (mA) Max.	Iv Typical (mcd)	@ mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Lite-On Part No.
										1	10	100		Qty.	Pricing	
1	Blue	Water Clear	468	3.4	20	70	20	130	160-1643-1-ND	.83	6.24	52.00	160-1643-2-ND	3,000	150.00/M	LTST-C150TBKT
3	Blue	Water Clear	468	3.3	20	70	20	130	160-1579-1-ND	.40	3.00	25.00	160-1579-2-ND	3,000	150.00/M	LTST-C170TBKT
5	Blue	Water Clear	468	3.4	20	30	20	130	160-1645-1-ND	.40	3.00	25.00	160-1645-2-ND	3,000	150.00/M	LTST-C171TBKT
6	Blue	Water Clear	468	3.4	20	30	20	130	160-1646-1-ND	.40	3.00	25.00	160-1646-2-ND	3,000	150.00/M	LTST-C190TBKT
8	Blue	Water Clear	468	3.4	20	30	20	130	160-1647-1-ND	.40	3.00	25.00	160-1647-2-ND	5,000	150.00/M	LTST-C191TBKT
			468	3.4	20	45	20	130	160-1648-1-ND	.40	3.00	25.00	160-1648-2-ND	5,000	150.00/M	LTST-C192TBKT
12	Blue	Water Clear	468	3.5	30	90	20	120	160-1229-1-ND	.38	3.13	25.00	160-1229-2-ND	2,000	187.50/M	LTST-T670TBKT
14	Blue	Water Clear	468	3.4	20	70	20	130	160-1650-1-ND	.40	3.00	25.00	160-1650-2-ND	4,000	150.00/M	LTST-S270TBKT
15	Blue	Water Clear	468	3.4	20	30	20	130	160-1651-1-ND	.40	3.00	25.00	160-1651-2-ND	3,000	150.00/M	LTST-S320TBKT
16	Blue	Water Clear	468	3.4	20	450	20	25	160-1649-1-ND	.40	3.00	25.00	160-1649-2-ND	1,500	150.00/M	LTST-C930TBKT

Ultra-Bright AlInGaP Surface Mount LEDs

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	VF Typ. (V)	If (mA) Max.	Iv Typical (mcd)	@ mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Lite-On Part No.
										1	10	100		Qty.	Pricing	
1	Super Red	Water Clear	639	2.0	30	54	20	130	160-1405-1-ND	.14	1.05	8.75	160-1405-2-ND	3,000	49.50/M	LTST-C150KRKT
	Red Orange		621	2.0	30	55	20	130	160-1402-1-ND	.17	1.26	10.50	160-1402-2-ND	3,000	63.00/M	LTST-C150KAKT
	Amber Yellow		595	2.0	30	50	20	130	160-1407-1-ND	.17	1.26	10.50	160-1407-2-ND	3,000	63.00/M	LTST-C150KYKT
	Yellow		588	2.0	30	60	20	130	160-1406-1-ND	.17	1.26	10.50	160-1406-2-ND	3,000	49.50/M	LTST-C150KSKT
	Green		574	2.0	30	35	20	130	160-1404-1-ND	.17	1.26	10.50	160-1404-2-ND	3,000	49.50/M	LTST-C150KGKT
2	Green/Super Red	Water Clear	574/639	2/2	30/30	35/45	20	130	160-1409-1-ND	.27	2.01	16.75	160-1409-2-ND	3,000	79.50/M	LTST-C155KGJRKT
	Green/Yellow		574/591	2/2	30/30	35/75	20	130	160-1410-1-ND	.27	2.01	16.75	160-1410-2-ND	3,000	100.50/M	LTST-C155KGJSKT
3	Super Red	Water Clear	639	2.0	30	54	20	130	160-1415-1-ND	.14	1.05	8.75	160-1415-2-ND	3,000	52.50/M	LTST-C170KRKT
	Red Orange		621	2.0	30	55	20	130	160-1412-1-ND	.17	1.29	10.75	160-1412-2-ND	3,000	64.50/M	LTST-C170KAKT
	Amber		611	2.0	30	60	20	130	160-1413-1-ND	.17	1.29	10.75	160-1413-2-ND	3,000	64.50/M	LTST-C170KFKT
	Yellow		588	2.0	30	60	20	130	160-1416-1-ND	.17	1.29	10.75	160-1416-2-ND	3,000	64.50/M	LTST-C170KSKT
	Green		574	2.0	30	35	20	130	160-1414-1-ND	.12	.87	7.25	160-1414-2-ND	3,000	43.50/M	LTST-C170KGKT
5	Super Red	Water Clear	639	2.0	30	54	20	130	160-1427-1-ND	.17	1.26	10.50	160-1427-2-ND	3,000	63.00/M	LTST-C171KRKT
	Amber Yellow		595	2.0	30	50	20	130	160-1429-1-ND	.17	1.26	10.50	160-1429-2-ND	3,000	63.00/M	LTST-C171KYKT
	Yellow		588	2.0	30	60	20	130	160-1428-1-ND	.17	1.26	10.50	160-1428-2-ND	3,000	63.00/M	LTST-C171KSKT
	Green		574	2.0	30	35	20	130	160-1426-1-ND	.17	1.26	10.50	160-1426-2-ND	3,000	63.00/M	LTST-C171KGKT
6	Super Red	Water Clear	639	2.0	30	54	20	130	160-1436-1-ND	.15	1.11	9.25	160-1436-2-ND	3,000	43.50/M	LTST-C190KRKT
	Red Orange		621	2.0	30	55	20	130	160-1433-1-ND	.15	1.11	9.25	160-1433-2-ND	3,000	55.50/M	LTST-C190KAKT
	Amber		611	2.0	30	60	20	130	160-1434-1-ND	.15	1.11	9.25	160-1434-2-ND	3,000	55.50/M	LTST-C190KFKT
	Amber Yellow		595	2.0	30	50	20	130	160-1438-1-ND	.15	1.11	9.25	160-1438-2-ND	3,000	55.50/M	LTST-C190KYKT
	Yellow		588	2.0	30	60	20	130	160-1437-1-ND	.15	1.11	9.25	160-1437-2-ND	3,000	55.50/M	LTST-C190KSKT
	Green		574	2.0	30	35	20	130	160-1435-1-ND	.12	.87	7.25	160-1435-2-ND	3,000	43.50/M	LTST-C190KGKT
8	Super Red	Water Clear	639	2.0	30	54	20	130	160-1447-1-ND	.17	1.26	10.50	160-1447-2-ND	5,000	63.00/M	LTST-C191KRKT
	Red Orange		605	2.0	30	90	20	130	160-1445-1-ND	.17	1.26	10.50	160-1445-2-ND	5,000	63.00/M	LTST-C191KFKT
	Yellow		591	2.0	30	60	20	130	160-1448-1-ND	.17	1.26	10.50	160-1448-2-ND	5,000	63.00/M	LTST-C191KSKT
	Green		574	2.0	30	35	20	130	160-1446-1-ND	.17	1.26	10.50	160-1446-2-ND	5,000	63.00/M	LTST-C191KGKT
10	Green/Red	Water Clear	574/639	2/2	30/30	35/45	20	130	160-1452-1-ND	.27	2.01	16.75	160-1452-2-ND	4,000	79.50/M	LTST-C195KGJRKT
	Green/Yellow		574/591	2/2	30/30	35/75	20	130	160-1453-1-ND	.27	2.01	16.75	160-1453-2-ND	4,000	100.50/M	LTST-C195KGJSKT
11	Super Red	Water Clear	639	2.0	30	54	20	130	160-1457-1-ND	.17	1.29	10.75	160-1457-2-ND	3,000	52.50/M	LTST-C230KRKT
	Yellow		588	2.0	30	60	20	130	160-1458-1-ND	.17	1.29	10.75	160-1458-2-ND	3,000	64.50/M	LTST-C230KSKT
	Green		574	2.0	30	35	20	130	160-1456-1-ND	.14	1.05	8.75	160-1456-2-ND	3,000	52.50/M	LTST-C230KGKT
12	Red	Water Clear	639	2.0	30	100	20	120	160-1226-1-ND	.20	1.50	12.50	160-1226-2-ND	2,000	75.00/M	LTST-T670KRKT
	Yellow		591	2.0	30	100	20	120	160-1227-1-ND	.20	1.50	12.50	160-1227-2-ND	2,000	75.00/M	LTST-T670KSKT
	Green		574	2.0	30	60	20	120	160-1228-1-ND	.20	1.50	12.50	160-1228-2-ND	2,000	75.00/M	LTST-T670KGKT
	Amber		611	2.0	30	100	20	120	160-1225-1-ND	.20	1.50	12.50	160-1225-2-ND	2,000	75.00/M	LTST-T670KFKT
13	Super Red	Water Clear	639	2.0	30	54	20	130	160-1469-1-ND	.16	1.20	10.00	160-1469-2-ND	4,000	48.00/M	LTST-S220KRKT
	Yellow		591	2.0	30	60	20	130	160-1470-1-ND	.16	1.20	10.00	160-1470-2-ND	4,000	60.00/M	LTST-S220KSKT
	Green		574	2.0	30	35	20	130	160-1468-1-ND	.16	1.20	10.00	160-1468-2-ND	4,000	60.00/M	LTST-S220KGKT
14	Super Red	Water Clear	639	2.0	30	54	20	130	160-1479-1-ND	.17	1.26	10.50	160-1479-2-ND	4,000	63.00/M	LTST-S270KRKT
	Amber		611	2.0	20	60	20	130	160-1477-1-ND	.17	1.26	10.50	160-1477-2-ND	4,000	63.00/M	LTST-S270KFKT
	Yellow		591	2.0	30	60	20	130	160-1480-1-ND	.17	1.26	10.50	160-1480-2-ND	4,000	63.00/M	LTST-S270KSKT
	Green		574	2.0	30	35	20	130	160-1478-1-ND	.17	1.26	10.50	160-1478-2-ND	4,000	63.00/M	LTST-S270KGKT
15	Super Red	Water Clear	639	2.0	30	54	20	130	160-1487-1-ND	.19	1.41	11.75	160-1487-2-ND	3,000	70.50/M	LTST-S320KRKT
	Yellow		591	2.0	30	60	20	130	160-1488-1-ND	.19	1.41	11.75	160-1488-2-ND	3,000	70.50/M	LTST-S320KSKT
	Green		574	2.0	30	35	20	130	160-1486-1-ND	.17	1.29	10.75	160-1486-2-ND	3,000	64.50/M	LTST-S320KGKT
16	Super Red	Water Clear	639	2.0	30	850	20	25	160-1463-1-ND	.21	1.56	13.00	160-1463-2-ND	1,500	61.50/M	LTST-C930KRKT
	Red Orange		621	2.0	30	1050	20	25	160-1461-1-ND	.21	1.56	13.00	160-1461-2-ND	1,500	78.00/M	LTST-C930KAKT
	Yellow		591	2.0	30	800	20	25	160-1464-1-ND	.21	1.56	13.00	160-1464-2-ND	1,500	78.00/M	LTST-C930KSKT
	Green		574	2.0	30	365	20	25	160-1462-1-ND	.21	1.56	13.00	160-1462-2-ND	1,500	78.00/M	LTST-C930KGKT
17	White	Yellow	—	3.6◊	30	1580◊	20	110	160-1773-1-ND	.56	4.63	37.00	160-1773-2-ND	2,000	277.50/M	LTW-008ZDCG
18	White	Yellow	—	3.4	20	3700	20	120	160-1765-1-ND	2.08	13.84	103.80	160-1765-2-ND	2,000	884.00/M	LTW-673DT
			—	3.7	50	—	—	120	160-1766-1-ND	.83	5.54	41.55	160-1766-2-ND	2,000	364.00/M	LTW-E670DS
	Blue	Water	468	4.0	30	185◊	30	120	160-1767-1-ND	.92	6.14	46.05	160-1767-2-ND	2,000	404.00/M	LTST-E670MBL30
	Green		518	4.0	30	590◊	30	120	160-1768-1-ND	1.12	7.46	55.95	160-1768-2-ND	2,000	490.00/M	LTST-E670MGL30

◊ Maximum

NEW! Power LEDs

The LOPL (LiteOn Power LED) Emitter I is a 1W power LED package which is a point light source with more energy efficiency than incandescent and halogen lamps. It gives total design freedom and unmatched brightness, creating a new opportunity for solid state lighting to displace conventional lighting technologies.

Features: • High power LED light source • Long life, up to 100k hours • Instant light (less than 100ns) • Low voltage DC operated • Low thermal resistance

Applications: • Portable lights • Traffic signaling • Backlighting • Interior and exterior automotive lighting • Decorative and landscape lighting • Medical illumination

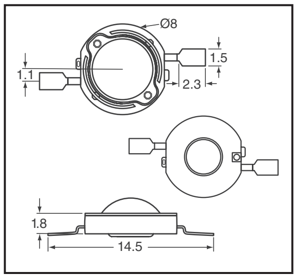

Emitted Color	Peak Wavelength Typical (nm)	Vf Typical (V)	If (mA) Maximum	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing	Lite-On Part No.
					1	10	100		500	
Amber	590	2.57	350	160-1774-1-ND	4.31	3.60	2.88	160-1774-2-ND	1078.50	LOPL-E001A
Blue	465	3.80	350	160-1775-1-ND	3.56	2.97	2.38	160-1775-2-ND	891.00	LOPL-E001B
Cyan	505	3.70	350	160-1776-1-ND	6.19	5.16	4.13	160-1776-2-ND	1547.25	LOPL-E001C
Green	525	3.70	350	160-1777-1-ND	5.44	4.54	3.63	160-1777-2-ND	1359.75	LOPL-E001G
Warm White	—	3.80	350	160-1779-1-ND	3.56	2.97	2.38	160-1779-2-ND	891.00	LOPL-E001M
Red	625	2.57	350	160-1780-1-ND	4.31	3.60	2.88	160-1780-2-ND	1078.50	LOPL-E001R
White	—	3.80	350	160-1781-1-ND	3.56	2.97	2.38	160-1781-2-ND	891.00	LOPL-E001W

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

CML INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT

PC Board Mounted LEDs

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Pricing				CML Part No.
					1	25	100	250	
T1									
1	Red	10	2.0	L20261-ND◆	1.10	22.33	64.60	142.50	5310F1
	Green	20	2.2	L20265-ND◆	1.10	22.33	64.60	142.50	5310F5
	Yellow	20	2.1	L20267-ND◆	1.10	22.33	64.60	142.50	5310F7
	Green	20	2.2	L20275-ND◆	1.10	22.33	64.60	142.50	5312F5
	Yellow	20	2.1	L20277-ND◆	1.10	22.33	64.60	142.50	5312F7
	Red	10	2.0	L20281-ND◆	1.10	22.33	64.60	142.50	5315F1
	Green	20	2.2	L20285-ND◆	1.10	22.33	64.60	142.50	5315F5
2	Red	10	2.0	L20151-ND◆	2.23	45.24	130.90	288.75	5360F1
	Green	20	2.2	L20155-ND◆	2.23	45.24	130.90	288.75	5360F5
	Yellow	20	2.1	L20157-ND	2.23	45.24	130.90	288.75	5360F7
3	Red	10	2.0	L20321-ND◆	.58	11.75	34.00	75.00	5600F1
	Green	20	2.2	L20325-ND◆	.58	11.75	34.00	75.00	5600F5
	Yellow	20	2.1	L20327-ND◆	.58	11.75	34.00	75.00	5600F7
	Red	10	5.0	L20331-ND◆	.84	17.04	49.30	108.75	5602F1-5V
	Amber	10	5.0	L20333-ND◆	.84	17.04	49.30	108.75	5602F3-5V
	Green	12	5.0	L20335-ND◆	.84	17.04	49.30	108.75	5602F5-5V
4	Red	20	1.8	L20191-ND◆	1.02	20.56	59.50	131.25	5608F1
	Green	20	2.3	L20195-ND◆	1.02	20.56	59.50	131.25	5608F5
	Yellow	20	2.2	L20197-ND◆	1.02	20.56	59.50	131.25	5608F7
5	Red	10	2.0	L20361-ND◆	.55	11.16	32.30	71.25	5650F1
	Green	20	2.2	L20365-ND◆	.55	11.16	32.30	71.25	5650F5
	Yellow	20	2.1	L20367-ND◆	.55	11.16	32.30	71.25	5650F7
	Red	2.0	1.8	L20371-ND◆	.70	14.10	40.80	90.00	5650F1LC
	Red	13	5.0	L20381-ND	.84	17.04	49.30	108.75	5652F1-5V
6	Red	10	2.0	L20401-ND◆	.90	18.21	52.70	116.25	5680F1;1
	Green	20	2.2	L20405-ND	.90	18.21	52.70	116.25	5680F5;5
	Yellow	20	2.1	L20407-ND◆	.90	18.21	52.70	116.25	5680F7;7
7	Red	10	2.2	L20411-ND◆	.90	18.21	52.70	116.25	6321F1
	Green	10	2.3	L20415-ND◆	.90	18.21	52.70	116.25	6321F5
	Yellow	10	2.2	L20417-ND◆	.90	18.21	52.70	116.25	6321F7
8	Red	10	2.0	L20421-ND◆	1.10	22.33	64.60	142.50	5322F1
	Green	20	2.2	L20425-ND◆	1.10	22.33	64.60	142.50	5322F5
	Yellow	20	2.1	L20427-ND◆	1.10	22.33	64.60	142.50	5322F7
	Red	10	2.0	L20431-ND◆	1.10	22.33	64.60	142.50	5320F1
	Yellow	20	2.1	L20437-ND◆	1.10	22.33	64.60	142.50	5320F7
	Red	10	2.0	L20441-ND	1.10	22.33	64.60	142.50	5321F1
	Green	20	2.2	L20445-ND	1.10	22.33	64.60	142.50	5321F5
9	Red	10	2.2	L2045111-ND	2.58	52.29	151.30	333.75	5693F1;1;1-A
	Green	10	2.3	L2045555-ND◆	2.58	52.29	151.30	333.75	5693F5;5;5-A
	Yellow	10	2.2	L2045777-ND◆	2.58	52.29	151.30	333.75	5693F7;7;7-A
10	Red	10	2.2	L20461111-ND◆	3.60	72.85	210.80	465.00	5694F1;1;1;1-A
	Green	10	2.3	L20465555-ND◆	3.60	72.85	210.80	465.00	5694F5;5;5;5-A
	Yellow	10	2.2	L20467777-ND◆	3.60	72.85	210.80	465.00	5694F7;7;7;-A
11	Red	10	2.0	L20448-ND◆	.90	18.21	52.70	116.25	553-0111
	Green	10	2.2	L20449-ND◆	.90	18.21	52.70	116.25	553-0122
	Yellow	10	2.1	L20450-ND	.90	18.21	52.70	116.25	553-0133
	Red/Green	20	1.8/2.1	L20451-ND◆	.90	18.21	52.70	116.25	553-0711
	Green/Yellow	30/20	2.1/2.8	L20452-ND◆	.90	18.21	52.70	116.25	553-0744
T 1 3/4									
12	Red	20	2.0	L20011-ND◆	.44	8.81	25.50	56.25	5300H1
	Green	20	2.2	L20015-ND◆	.44	8.81	25.50	56.25	5300H5
	Yellow	20	2.1	L20017-ND◆	.44	8.81	25.50	56.25	5300H7
	Red	10	5.0	L20021-ND◆	.84	17.04	49.30	108.75	5302H1-5V
	Amber	10	5.0	L20023-ND◆	.84	17.04	49.30	108.75	5302H3-5V
	Green	20	5.0	L20025-ND◆	.84	17.04	49.30	108.75	5302H5-5V
	Red	2	1.8	L20031-ND◆	.58	11.75	34.00	75.00	5300H1LC
	Green	2	1.8	L20035-ND◆	.58	11.75	34.00	75.00	5300H5LC
	Yellow	2	1.9	L20037-ND◆	.58	11.75	34.00	75.00	5300H7LC
	Red	35	3.0	L20041-ND◆	.75	15.28	44.20	97.50	5308H1
	Green	20	2.5	L20045-ND◆	.75	15.28	44.20	97.50	5308H5
	Yellow	20	2.1	L20047-ND◆	.75	15.28	44.20	97.50	5308H7
	Red/Green	10	2.2	L20048-ND◆	1.07	21.74	62.90	138.75	5300H1/5
13	Red	20	2.0	L20171-ND◆	.78	15.86	45.90	101.25	5306H1
	Amber	20	2.0	L20173-ND◆	.78	15.86	45.90	101.25	5306H3
	Green	20	2.2	L20175-ND◆	.78	15.86	45.90	101.25	5306H5
	Yellow	20	2.1	L20177-ND◆	.78	15.86	45.90	101.25	5306H7
14	Red	20	2.0	L20051-ND◆	.78	15.86	45.90	101.25	5307H1
	Green	20	2.2	L20055-ND◆	.78	15.86	45.90	101.25	5307H5
15	Red	20	2.0	L20061-ND◆	.78	15.86	45.90	101.25	5330H1
	Green	20	2.2	L20065-ND◆	.78	15.86	45.90	101.25	5330H5
	Yellow	20	2.2	L20067-ND◆	.78	15.86	45.90	101.25	5330H7
	Red	20	2.0	L20731-ND◆	.78	15.86	45.90	101.25	5331H1
	Green	20	2.1	L20735-ND◆	.78	15.86	45.90	101.25	5331H5
	Yellow	20	2.1	L20737-ND◆	.78	15.86	45.90	101.25	5331H7
16	Red	20	2.0	L20251-ND◆	1.19	24.09	69.70	153.75	5341H1
	Green	20	2.1	L20255-ND◆	1.19	24.09	69.70	153.75	5341H5
	Yellow	20	2.1	L20257-ND◆	1.19	24.09	69.70	153.75	5341H7
17	Red	20	1.7	L20301-ND	.53	10.81	31.28	69.00	5380E1
	Red	20	2.0	L20311-ND◆	.61	12.34	35.70	78.75	5380H1
	Green	20	2.2	L20315-ND◆	.61	12.34	35.70	78.75	5380H5
	Yellow	20	2.1	L20317-ND◆	.61	12.34	35.70	78.75	5380H7
18	Red	20	2.0	L20161-ND	.67	13.51	39.10	86.25	5381H1
	Green	20	2.2	L20165-ND◆	.67	13.51	39.10	86.25	5381H5
	Yellow	20	2.1	L20167-ND	.67	13.51	39.10	86.25	5381H7
19	Red	20	2.0	L20351-ND	2.52	51.11	147.90	326.25	5640H1
	Green	20	2.2	L20355-ND◆	2.52	51.11	147.90	326.25	5640H5
	Yellow	20	2.1	L20357-ND◆	2.52	51.11	147.90	326.25	5640H7
20	Red	20	2.0	L20391-ND◆	1.39	28.20	81.60	180.00	5670H1;1
	Green	20	2.2	L20395-ND◆	1.39	28.20	81.60	180.00	5670H5;5
	Yellow	20	2.1	L20397-ND	1.39	28.20	81.60	180.00	5670H7;7
21	Red	20	2.0	L20491-ND◆	.78	15.86	45.90	101.25	5332H1
	Green	20	2.1	L20495-ND	.78	15.86	45.90	101.25	5332H5
	Yellow	20	2.1	L20497-ND	.78	15.86	45.90	101.25	5332H7
22	Red/Green	15	2.1	L20488-ND◆	1.94	39.36	113.90	251.25	5305H1/5
	Amber/Green	15	2.1	L205935-ND◆	1.94	39.36	113.90	251.25	5305H3/5
2mm									
23	Red	10	2.2	L20081-ND◆	.93	18.80	54.40	120.00	5350T1
	Green	10	2.3	L20085-ND◆	.93	18.80	54.40	120.00	5350T5
	Yellow	10	2.2	L20087-ND◆	.93	18.80	54.40	120.00	5350T7
	Red	9.6	5.0	L20091-ND	1.04	21.15	61.20	135.00	5352T1-5V
	Amber	10	5.0	L20093-ND	1.04	21.15	61.20	135.00	5352T3-5V
	Green	10	5.0	L20095-ND	1.04	21.15	61.20	135.00	5352T5-5V
	Red	2	1.8	L20101-ND◆	1.10	22.33	64.60	142.50	5350T1LC
	Green	2	1.8	L20105-ND◆	1.10	22.33	64.60	142.50	5350T5LC
	Yellow	2	1.9	L20107-ND◆	1.10	22.33	64.60	142.50	5350T7LC

Fig. 1

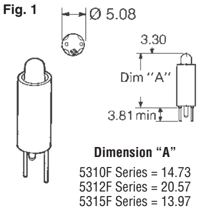

Fig. 2

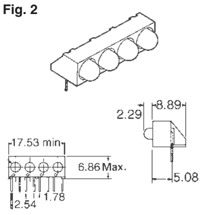

Fig. 3

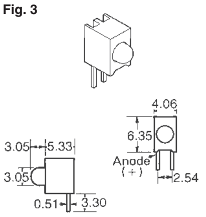

Fig. 4

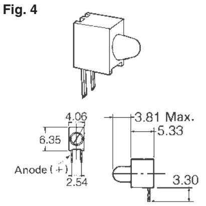

Clear Lens

Fig. 5

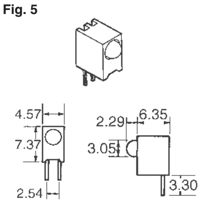

Fig. 6

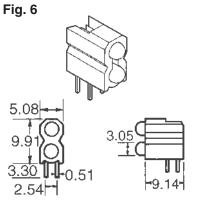

Fig. 7

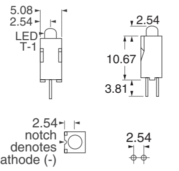

"Stackable"

Fig. 8

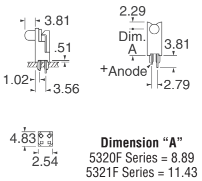

Fig. 9

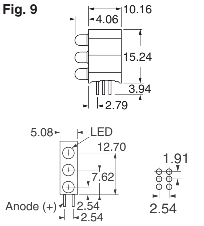

Fig. 10

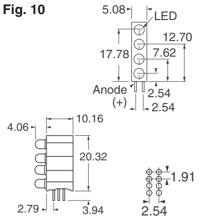

Fig. 11

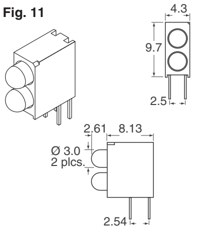

Fig. 12

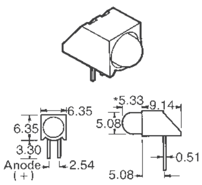

* 3.3 for Part No. L20001-ND

Fig. 13

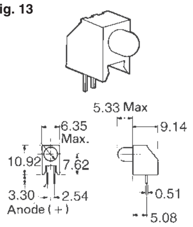

Fig. 14

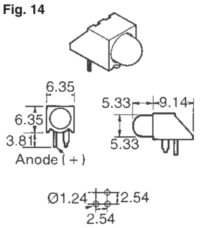

Fig. 15

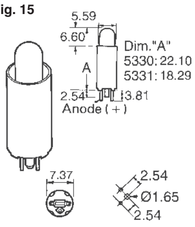

Fig. 16

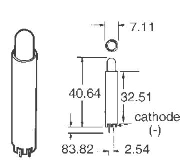

Fig. 17

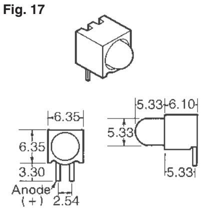

Fig. 18

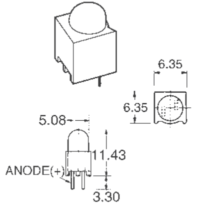

Fig. 19

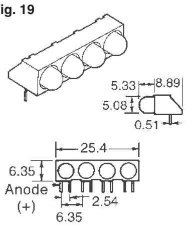

Fig. 20

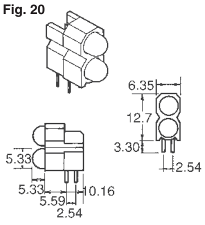

Fig. 21

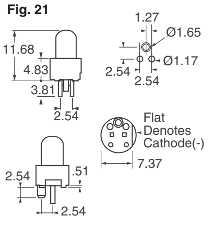

◆ RoHS Compliant

(Continued)

PC Board Mounted LEDs *(Cont.)*

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Pricing 1	25	100	250	CML Part No.
23	Red	3.5	5.0	L20111-ND◆	1.10	22.33	64.60	142.50	5352T1-5VLC
	Amber	3.5	5.0	L20113-ND◆	1.10	22.33	64.60	142.50	5352T3-5VLC
	Green	3.5	5.0	L20115-ND	1.10	22.33	64.60	142.50	5352T5-5VLC
24	Red	10	2.2	L20121-ND◆	1.57	31.73	91.80	202.50	5370T1
	Green	10	2.3	L20125-ND◆	1.57	31.73	91.80	202.50	5370T5
	Yellow	10	2.2	L20127-ND	1.57	31.73	91.80	202.50	5370T7
	Red	9.5	5.0	L20131-ND◆	1.71	34.66	100.30	221.25	5372T1-5V
	Amber	10	5.0	L20133-ND◆	1.71	34.66	100.30	221.25	5372T3-5V
	Green	10	5.0	L20135-ND◆	1.71	34.66	100.30	221.25	5372T5-5V
	Red	2	1.8	L20141-ND◆	1.74	35.25	102.00	225.00	5370T1LC
	Green	2	1.8	L20145-ND	1.74	35.25	102.00	225.00	5370T5LC
	Yellow	2	1.9	L20147-ND	1.74	35.25	102.00	225.00	5370T7LC
	Red	3.5	5.0	L20291-ND◆	1.74	35.25	102.00	225.00	5372T1-5VLC
	Amber	3.5	5.0	L20293-ND◆	1.74	35.25	102.00	225.00	5372T3-5VLC
	Green	3.5	5.0	L20295-ND◆	1.74	35.25	102.00	225.00	5372T5-5VLC
Rectangular									
25	Red	20	2.1	L20541-ND◆	1.31	26.44	76.50	168.75	5636D1
	Green	20	2.1	L20545-ND◆	1.31	26.44	76.50	168.75	5636D5
	Yellow	20	2.2	L20547-ND	1.31	26.44	76.50	168.75	5636D7
26	Red	10	2.1	L20571-ND◆	6.26	126.90	367.20	810.00	5638D1

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 750	CML Part No.
PC Board Mount on Tape and Reel — RoHS Compliant										
27	Red	10	2.0	L60011CT-ND	1.09	9.30	77.50	L60011TR-ND	348.75	5655F1
	Green	20	2.2	L60015CT-ND	1.09	9.30	77.50	L60015TR-ND	348.75	5655F5

◆ ***RoHS Compliant***

Fig. 22

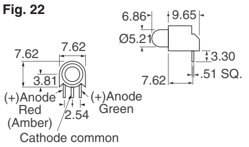

Fig. 23

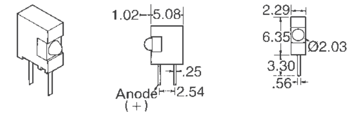

Fig. 24

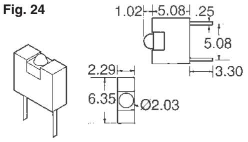

Fig. 25

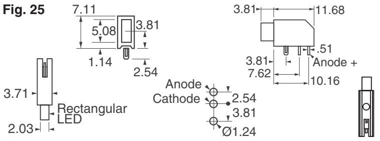

Fig. 26

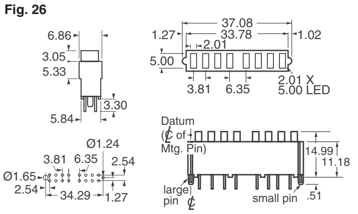

Fig. 27

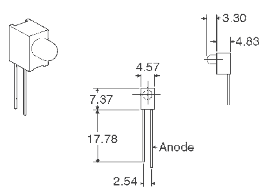

Panel Mount LED Assemblies

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Pricing 1	25	100	250	CML Part No.
1	Red	20	2.0	L10001-ND◆	1.33	27.03	78.20	172.50	5100H1
	Green	20	2.2	L10005-ND◆	1.33	27.03	78.20	172.50	5100H5
	Yellow	20	2.1	L10007-ND◆	1.33	27.03	78.20	172.50	5100H7
	Red	2	1.8	L10011-ND◆	1.71	34.66	100.30	221.25	5100H1LC
	Yellow	2	1.9	L10017-ND◆	1.71	34.66	100.30	221.25	5100H7LC
	Red	10	5.0	L10021-ND◆	1.86	37.60	108.80	240.00	5102H1-5V
	Amber	10	5.0	L10023-ND◆	1.86	37.60	108.80	240.00	5102H3-5V
	Green	12	5.0	L10025-ND◆	1.86	37.60	108.80	240.00	5102H5-5V
	Red/Green	20	2.2	L10008-ND◆	2.18	44.06	127.50	281.25	5100H1/5
2	Red	20	2.0	L10031-ND◆	1.22	24.68	71.40	157.50	5101H1
	Green	20	2.2	L10035-ND◆	1.22	24.68	71.40	157.50	5101H5
	Yellow	20	2.1	L10037-ND◆	1.22	24.68	71.40	157.50	5101H7
3	Red	10	2.0	L10041-ND◆	1.51	30.55	88.40	195.00	5110F1
	Green	20	2.2	L10045-ND◆	1.51	30.55	88.40	195.00	5110F5
	Yellow	20	2.1	L10047-ND◆	1.51	30.55	88.40	195.00	5110F7
	Red	2	1.8	L10051-ND◆	2.00	40.54	117.30	258.75	5110F1LC
	Yellow	2	1.9	L10057-ND◆	2.00	40.54	117.30	258.75	5110F7LC
4	Red	10	2.0	L10061-ND	.84	17.04	49.30	108.75	5111F1
	Green	20	2.2	L10065-ND◆	.84	17.04	49.30	108.75	5111F5
	Yellow	20	2.1	L10067-ND◆	.84	17.04	49.30	108.75	5111F7
5	Red	10	2.0	L10091-ND	2.06	41.71	120.70	266.25	5210F1
	Green	20	2.2	L10095-ND◆	2.06	41.71	120.70	266.25	5210F5
	Yellow	20	2.1	L10097-ND◆	2.06	41.71	120.70	266.25	5210F7
6	Red	20	2.0	L10071-ND◆	2.99	60.51	175.10	386.25	5400A1
	Green	20	2.1	L10075-ND◆	2.99	60.51	175.10	386.25	5400A5
	Yellow	20	2.1	L10077-ND	2.99	60.51	175.10	386.25	5400A7
7	Red	10	2.0	L50381-ND◆	3.63	73.44	212.50	468.75	3990A1
	Amber	10	2.0	L50383-ND◆	3.63	73.44	212.50	468.75	3990A3
	Green	20	2.2	L50385-ND◆	3.63	73.44	212.50	468.75	3990A5
	Yellow	20	2.1	L50387-ND◆	3.63	73.44	212.50	468.75	3990A7

Fig.	Dia. (mm)	Volts	Termination	Digi-Key Part No.	Pricing 1	25	100	CML Part No.
8	12.70	6	Wire	L5014□-ND	4.79	96.94	280.50	1091M□-6V
	12.70	12	Wire	L5015□-ND	4.79	96.94	280.50	1091M□-12V
	12.70	24	Wire	L5016□-ND◆	4.79	96.94	280.50	1091M□-24V
	12.70	12	4.75mm Terminal	L5017□-ND◆	5.08	102.81	297.50	1091QM□-12V
	12.70	24	4.75mm Terminal	L5018□-ND◆	5.08	102.81	297.50	1091QM□-24V
9	7.87	6	Wire	L5025□-ND◆	4.84	98.11	283.90	2191L□-6V
	7.87	12	Wire	L5026□-ND◆	4.84	98.11	283.90	2191L□-12V
	7.87	24	Wire	L5027□-ND◆	4.84	98.11	283.90	2191L□-24V
	7.87	12	4.75mm Terminal	L5028□-ND	5.08	102.81	297.50	2191QL□-12V
	7.87	24	4.75mm Terminal	L5029□-ND◆	5.08	102.81	297.50	2191QL□-24V
10	7.87	6	Wire	L5030□-ND	4.84	98.11	283.90	2191U□-6V
	7.87	12	Wire	L5031□-ND◆	4.84	98.11	283.90	2191U□-12V
	7.87	24	Wire	L5032□-ND	4.84	98.11	283.90	2191U□-24V
	7.87	12	4.75mm Terminal	L5033□-ND	5.08	102.81	297.50	2191QU□-12V
	7.87	24	4.75mm Terminal	L5034□-ND◆	5.08	102.81	297.50	2191QU□-24V

For □ in the part number, choose one of the following: **1**=Red; **5**=Green; **7**=Yellow ◆ ***RoHS Compliant***

Fig. 1

Mounting: Will snap-fit in 6.32/6.45mm dia. hole in panels .79/1.57mm thick. **Wire Leads:** 24 AWG, 152.40mm long. **Housing:** Black nylon. **Anode:** (+): Red lead. **Anode for L10008-ND:** (+): Yellow lead for red light, blue lead for green light.

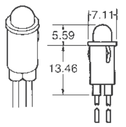

Fig. 2

Mounting: Will snap-fit in 6.32/6.45mm dia. hole in panels .79/1.57mm thick. **Terminals:** .51mm Sq. **Housing:** Black nylon.

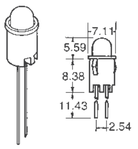

Fig. 3

Mounting: Will snap-fit in 3.94/4.01mm dia. hole in panels .79/1.57mm thick. **Wire Leads:** 24 AWG, 152.40mm long, stripped 4.57/8.13mm. **Anode** (+): Red lead. **Housing:** Black nylon.

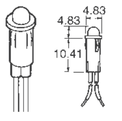

Fig. 4

Mounting: Will snap-fit in 3.94/4.01mm dia. hole in panels .79/1.57mm thick. **Terminals:** .51mm Sq. **Housing:** Black nylon.

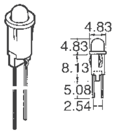

Fig. 5

Mounting: Will snap-fit into 4.75/4.88mm diameter hole in panel .51/2.46mm thick. **Wire Leads:** 26 AWG, 111.76/121.92mm long stripped. **Anode** (+): Red lead. **Lens:** Polycarbonate. **Housing:** Polycarbonate.

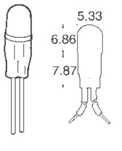

Fig. 6

Mounting: Will snap-fit into 7.92/8.05mm dia. hole in panel .51/2.49mm thick. **Wire Leads:** 24 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+): Red lead. **Lens:** Polycarbonate. **Housing:** Natural nylon.

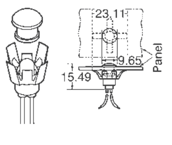

Fig. 7

Mounting: Will snap-fit into 5.51/5.61mm dia. hole in panels .79/1.57mm thick. **Wire Leads:** 26 AWG, 111.76/121.92mm long stripped. **Anode** (+): Red lead. **Lens:** Polycarbonate. **Housing:** White nylon.

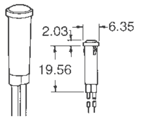

Fig. 8

Wire Leads: 22 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+) Red Lead or Quick Connect 4.75mm Term Anode (+) marked above terminal

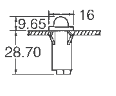

Fig. 9

Wire Leads: 22 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+) Red Lead or Quick Connect 4.75mm Term Anode (+) marked above terminal with speed nut

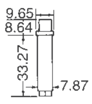

Fig. 10

Wire Leads: 22 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+) Red Lead or Quick Connect 4.75mm Term Anode (+) marked above terminal with speed nut

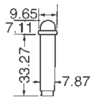

Flashers

Series 5100H Flasher

Features: • Built-in flashing circuit • Flashing rate: 1.5 - 2.5 Hz • No external resistor required **Mounting:** Will snap fit in 6.32/6.45mm dia. hole in panels .79/1.57mm. **Wire Leads:** No. 24 AWG, 152.40mm insulated, bonded strands, stripped 12.70mm. **Anode (+):** Red Lead **Housing:** Black Nylon

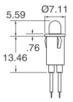

Color	Iv mcd	Current mA	V_F (V)	Digi-Key Part No.	Pricing 1	25	100	CML Part No.
Red	12.5	20	13	L20691-ND◆	2.70	54.64	158.10	5100H1FL
Green	8.0	20	13	L20695-ND	2.70	54.64	158.10	5100H5FL
Yellow	12.5	20	13	L20697-ND◆	2.70	54.64	158.10	5100H7FL

◆ ***RoHS Compliant***

T1 Modular LEDs

Features: • Mount up to 12 LEDs in one operation • Unitized vibration resistant package • Black housing for high contrast background • Wide viewing angle • Vertical or horizontal positioning • Interlocking construction • Hi brite diffused LEDs • Speeds mounting for increased productivity and reduced cost

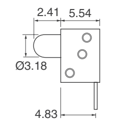

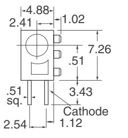

Mount from 1 to 12 circuit board indicators, as a single unit. Unique snap-together feature.

LED/Lens	Forward Voltage Typ.	If=(mA)	Min. V_R	Max. I_F (mA)	Typ. I_O (mcd)	View Angle	Digi-Key Part No.	Pricing 1	25	100	CML Part No.
Red/Clear	2.2	20	5.0	30	60.0	40°	CMC01R-ND	.67	13.51	39.10	CMC01R
Yellow/Clear	2.2	20	5.0	20	60.0	40°	CMC01Y-ND◆	.67	13.51	39.10	CMC01Y
Green/Clear	2.2	20	5.0	30	60.0	40°	CMC01G-ND◆	.67	13.51	39.10	CMC01G
Red/Diff.	2.0	20	5.0	30	20.0	90°	CMW01R-ND◆	.78	15.86	45.90	CMW01R
Yellow/Diff.	2.1	20	5.0	30	12.5	90°	CMW01Y-ND◆	.78	15.86	45.90	CMW01Y
Green/Diff.	2.2	20	5.0	30	12.5	90°	CMW01G-ND	.78	15.86	45.90	CMW01G

◆ ***RoHS Compliant***

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CML
INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT

Optical Light Pipes for SMD-Style LED

Fig. 1

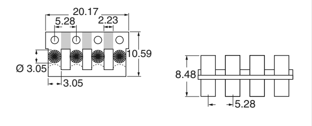

Fig. 2

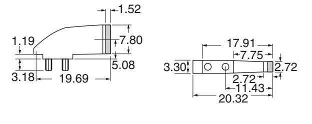

Fig. 3

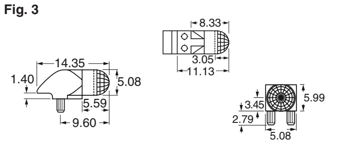

Fig. 4

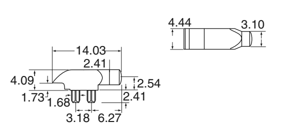

Fig. 5

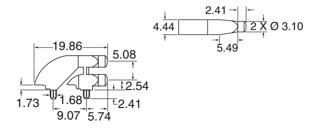

Fig. 6

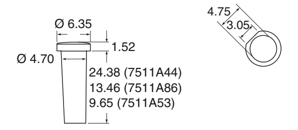

Fig. 7

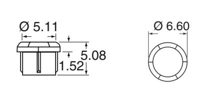

Fig. 8

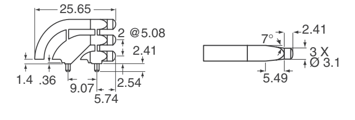

Fig. 9 – Flexible Light Pipe

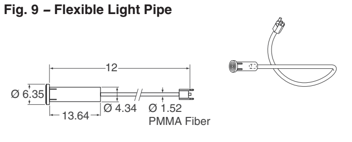

Fig. 10 – SMD

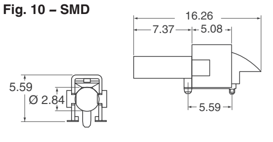

Fig.	Color	Digi-Key Part No.	Price Each 1	25	100	250	Tape & Reel§ Pricing 700	CML Part No.
1	Clear	L71200-ND	2.32	1.88	1.36	1.20	—	7640D2
2		L71300-ND◆	.55	.45	.33	.29	—	7610D2
3		L71400-ND◆	1.33	1.09	.79	.69	—	7511G2
4		L70510-ND◆	.84	.69	.50	.44	—	7511A85
5		L70520-ND◆	.93	.76	.55	.48	—	7511A62
6	Clear	L70540-ND◆	.84	.69	.50	.44	—	7511A44
6		L70550-ND◆	.73	.59	.43	.38	—	7511A86
6		L70560-ND◆	.81	.66	.48	.42	—	7511A53
7		L70570-ND◆	.58	.47	.34	.30	—	7511A18
8		L70580-ND	.84	.69	.50	.44	—	7511B11
9	Clear	L70590-ND◆	2.64	2.14	1.55	1.37	—	7512FPR-305
10		L70591CT-ND◆†	2.64	2.27	1.89	—	814.10	7520A10-TRLF

◆ ***RoHS Compliant*** § For Tape & Reel part number, change CT-ND to TR-ND † Cut Tape

PC Board Mount T-1 LEDs

Fig. 1

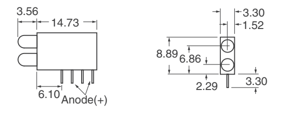

Fig. 2

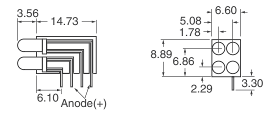

Fig.	Color	Typ. mcd	Forward mA	Voltage Typ. (V)	Digi-Key Part No.	Price Each 1	25	100	CML Part No.
1	Red	10.0	10	2.2	L206011-ND	1.94	1.58	1.14	5682F1;1
	Green	8.5	10	2.3	L206055-ND◆	1.94	1.58	1.14	5682F5;5
	Yellow	10.0	10	2.2	L206077-ND	1.94	1.58	1.14	5682F7;7
2	Red	10.0	10	2.2	L206111-ND◆	3.60	2.92	2.11	5684F1;1;1;1
	Green	8.5	10	2.3	L206555-ND◆	3.60	2.92	2.11	5684F5;5;5;5
	Yellow	10.0	10	2.2	L206777-ND	3.60	2.92	2.11	5684F7;7;7;7

◆ ***RoHS Compliant***

High Brightness LED

RoHS COMPLIANT

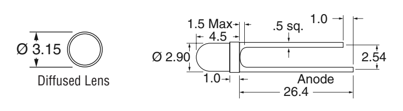

Dia. (mm)	Color	Wave-length (nm)	V_f Typ (V)	I_f Typ (mA)	I_v Typ (mcd)	Digi-Key Part No.	Price Each 1	25	100	CML Part No.
3	Blue	430	5	20	100	L14006-ND	1.89	1.53	1.11	CMD264-UBD

LED Lenses

RoHS Compliant Parts Available

These LED lenses provide quick, economical panel mounting as well as ESD protection. Molded in Fresnel rings provide a wide viewing angle.

Fig. 1

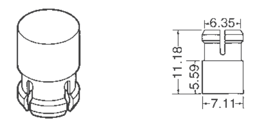

6.35mm Dia. for T1-3/4 LEDs

Fig. 2

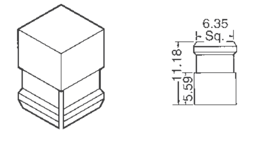

6.35mm Dia. for T1-3/4 LEDs

Fig. 3

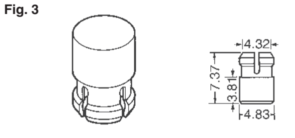

4.37mm Dia. for T-1 LEDs

Fig. 4

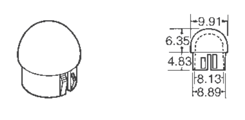

9.91mm Dia. for T1-3/4 LEDs

Fig.	Digi-Key Part No.	Price Each 1	25	100	250	CML Part No.
1	L3000☐-ND	.38	.31	.23	.20	431☐
2	L3001☐-ND	.39	.32	.23	.20	432☐
3	L3002☐-ND	.41	.33	.24	.21	433☐
4	L3003☐-ND	.49	.40	.29	.26	434☐

For ☐ in the part number, choose one of the following: **1**=Red; **2**=Clear; **3**=Amber; **5**=Green; **6**=Blue; **7**=Yellow

Lamp Socket

RoHS COMPLIANT

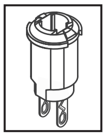

Description	Digi-Key Part No.	Price Each 1	25	100	CML Part No.
Lamp Socket for T1-3/4 3/8" Hole	LS4001-ND	2.20	1.79	1.30	4610

Circuit Board Indicators

Color	Typ. mcd	Rated Current mA	Forward Voltage Typ. (V)	Digi-Key Part No.	Price Each 1	25	100	CML Part No.
Red	6.3	10	2.0	L20651-ND◆	.90	.73	.53	5340H1
Green	10	10	2.2	L20655-ND◆	.90	.73	.53	5340H5
Yellow	6.3	10	2.2	L20657-ND◆	.90	.73	.53	5340H7
Red	2.3	2	1.8	L20661-ND	.99	.80	.58	5340H1LC
Green	2.3	2	1.8	L20665-ND◆	.99	.80	.58	5340H5LC
Yellow	2.1	2	1.9	L20667-ND	.99	.80	.58	5340H7LC

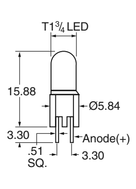

◆ ***RoHS Compliant***

Bright•White™ LEDs

Peak Forward Current: • Surface Mount: 100mA • Through-Hole: 80mA **Continuous Forward Current:** • Surface Mount: 30mA • Through-Hole: 25mA **Emitted Color:** White **Lens Color:** Water Clear

SMD Package

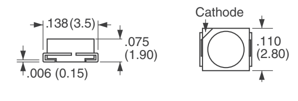

T1-3/4 Package

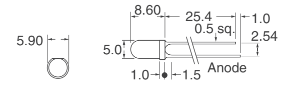

Pkg. Type	V_t Typ.	mcd Typ.	I_f (mA) Typ.	View Angle	Digi-Key Part No.	Price Each 1	10	100	T & R§ Pricing 2,000	CML Part No.
SMD	3.6	170	20	100°	CMD67-21UWCCT-ND†	5.25	4.50	3.75	2250.00/M	CMD67-21UWC/TR8
T1-3/4	3.75	2300	20	20°	CMD333UWC-ND◆	4.35	3.53	2.55	—	CMD333UWC

◆ ***RoHS Compliant*** § For Tape and Reel part number, change CT-ND to TR-ND † Cut Tape

Surface Mount LEDs

Fig.	Wave-length	Color	Lens Color	TYP mcd	Forward Voltage TYP	@ mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	CML Part No.
							CMD11-21 Series						
1	640	Red	Clear	6	2.0	20	L62001CT-ND◆	.39	.33	.28	2,000	165.00/M	CMD11-21VRC/TR8
	570	Green	Clear	7.5	2.1	20	L62005CT-ND◆	.39	.33	.28	2,000	165.00/M	CMD11-21VGC/TR8
	585	Yellow	Clear	6	2.0	20	L62007CT-ND	.39	.33	.28	2,000	165.00/M	CMD11-21VYC/TR8
	660	Super Red	Clear	17	1.7	20	L62011CT-ND◆	.39	.33	.28	2,000	165.00/M	CMD11-21SRC/TR8
							CMDA1 Series						
1	660	Red	Clear	33.6	1.7	20	L71501CT-ND◆	.32	.27	.23	2,500	135.00/M	CMDA1DR7A1Z
	580	Yellow	Clear	6.0	2.2	20	L71502CT-ND	.32	.27	.23	2,500	135.00/M	CMDA1CY7A1Z
	570	Yellow	Clear	24.0	2.1	20	L71503CT-ND◆	.32	.27	.23	2,500	135.00/M	CMDA1AY7A1Z
	560	Green	Clear	12.0	2.1	20	L71504CT-ND	.32	.27	.23	2,500	135.00/M	CMDA1CG7A1Z
							CMD12-21 Series						
2	640	Red	Clear	5	2.0	20	L62101CT-ND◆	.39	.33	.28	2,000	165.00/M	CMD12-21VRC/TR8
	570	Green	Clear	8.8	2.1	20	L62105CT-ND◆	.39	.33	.28	2,000	165.00/M	CMD12-21VGC/TR8
	585	Yellow	Clear	3	2.0	20	L62107CT-ND◆	.39	.33	.28	2,000	165.00/M	CMD12-21VYC/TR8
	660	Super Red	Clear	12.4	1.7	20	L62111CT-ND	.49	.42	.35	2,000	210.00/M	CMD12-21SRC/TR8
	570	Ultra Green	Clear	14.9	2.1	20	L62115CT-ND◆	.49	.42	.35	2,000	210.00/M	CMD12-21UGC/TR8
							CMDA7 Series						
2	580	Yellow	Clear	3.0	2.1	20	L71510CT-ND	.27	.23	.19	—	—	CMDA7CY7A1Z
	570	Yellow	Clear	8.8	2.1	20	L71511CT-ND	.27	.23	.19	—	—	CMDA7AY7A1Z
							CMD15-21 Series						
3	640	Red	Clear	6	2.0	20	L62201CT-ND◆	.35	.30	.25	2,000	150.00/M	CMD15-21VRC/TR8
	570	Green	Clear	10	2.1	20	L62205CT-ND◆	.32	.27	.23	2,000	135.00/M	CMD15-21VGC/TR8
	430	Ultra Blue	Clear	45	4.9	20	L62206CT-ND	3.43	2.94	2.45	2,000	1470.00/M	CMD15-21UBC/TR8
	581	Yellow	Clear	6	2.0	20	L62207CT-ND◆	.39	.33	.28	2,000	165.00/M	CMD15-21VYC/TR8
	660	Super Red	Clear	15	1.7	20	L62211CT-ND◆	.46	.39	.33	2,000	195.00/M	CMD15-21SRC/TR8
	565	Ultra Green	Clear	12	2.1	20	L62215CT-ND◆	.42	.36	.30	2,000	180.00/M	CMD15-21UGC/TR8
	640	Red	Diff	4	2.0	20	L62301CT-ND◆	.28	.24	.20	2,000	120.00/M	CMD15-21VRD/TR8
	570	Green	Diff	6.5	2.1	20	L62305CT-ND◆	.28	.24	.20	2,000	120.00/M	CMD15-21VGD/TR8
	585	Yellow	Diff	4	2.0	20	L62307CT-ND◆	.28	.24	.20	2,000	120.00/M	CMD15-21VYD/TR8
							CMD15-22 Series						
4	640/570	Red/Grn.	Clear	6.0/10.0	2.0/2.1	20	L622015CT-ND	.54	.46	.39	2,000	229.50/M	CMD15-22VRVGC/TR8
	660/565	Red/Grn.	Clear	15.0/12.0	1.7/2.1	20	L6221115CT-ND◆	.64	.55	.46	2,000	273.00/M	CMD15-22RUGC/TR8
							CMD17-21 Series						
5	640	Red	Clear	13	2.0	20	L62401CT-ND◆	.28	.24	.20	3,000	120.00/M	CMD17-21VRC/TR8
	570	Green	Clear	35	2.1	20	L62405CT-ND◆	.28	.24	.20	3,000	120.00/M	CMD17-21VGC/TR8
	585	Yellow	Clear	12	2.0	20	L62407CT-ND◆	.28	.24	.20	3,000	120.00/M	CMD17-21VYC/TR8
	660	Super Red	Clear	45	1.7	20	L62411CT-ND	.49	.42	.35	3,000	210.00/M	CMD17-21SRC/TR8
	570	Ultra Green	Clear	15.0	2.1	20	L62415CT-ND◆	.32	.27	.23	3,000	135.00/M	CMD17-21UGC/TR8
	640	Red	Diff	6.0	2.0	20	L62501CT-ND◆	.32	.27	.23	3,000	135.00/M	CMD17-21VRD/TR8
	570	Green	Diff	7.0	2.1	20	L62505CT-ND◆	.32	.27	.23	3,000	135.00/M	CMD17-21VGD/TR8
	585	Yellow	Diff	4	2.0	20	L62507CT-ND◆	.39	.33	.28	3,000	165.00/M	CMD17-21VYD/TR8
							CMDA5 Series						
6	660	Red	Clear	11.7	1.7	20	L71505CT-ND	.32	.27	.23	4,000	135.00/M	CMDA5DR7D1Z
	580	Yellow	Clear	3.7	2.2	20	L71506CT-ND	.32	.27	.23	4,000	135.00/M	CMDA5CY7D1Z
	570	Yellow	Clear	11.7	2.1	20	L71507CT-ND	.32	.27	.23	4,000	135.00/M	CMDA5AY7D1Z
	560	Green	Clear	6.4	2.1	20	L71508CT-ND	.32	.27	.23	4,000	135.00/M	CMDA5CG7D1Z
7	637	Red	Diff	90	1.9	20	L71514CT-ND	.35	.30	.25	4,000	150.00/M	CMDA5AR7D1S
	630	Hi. Eff. Red	Diff	10	2.1	20	L71516CT-ND	.27	.23	.19	—	—	CMDA5BR7D1S
	609	Orange	Diff	90	1.9	20	L71515CT-ND	.30	.27	.22	—	—	CMDA5BA7D1S
	605	Orange	Diff	8.0	2.2	20	L71513CT-ND	.27	.23	.19	—	—	CMDA5AA7D1S
	595	Amber	Diff	90	1.9	20	L71517CT-ND	.35	.30	.25	4,000	150.00/M	CMDA5DY7D1S
							CMD28-21 Series						
8	640	Red	Clear	3	2.0	20	L62601CT-ND	.39	.33	.28	2,000	165.00/M	CMD28-21VRC/TR8
	570	Green	Clear	5.5	2.1	20	L62605CT-ND◆	.39	.33	.28	2,000	165.00/M	CMD28-21VGC/TR8
	660	Super Red	Clear	17	1.7	20	L62611CT-ND	.46	.39	.33	2,000	195.00/M	CMD28-21SRC/TR8
	640	Red	Clear	0.16	2.0	1	L62701CT-ND◆	.31	.27	.23	2,000	133.50/M	CMD28-21VRC/TR8/T1
	570	Green	Clear	0.16	2.1	1	L62705CT-ND◆	.31	.27	.23	2,000	133.50/M	CMD28-21VGC/TR8/T1
	660	Super Red	Clear	1.6	1.7	1	L62711CT-ND	.42	.36	.30	2,000	178.50/M	CMD28-21SRC/TR8/T1
							CMD67-21 Series						
9	640	Red	Clear	10	2.0	20	L62801CT-ND	.56	.48	.40	2,000	240.00/M	CMD67-21VRC/TR8
	570	Green	Clear	25	2.1	20	L62805CT-ND◆	.42	.36	.30	2,000	180.00/M	CMD67-21VGC/TR8
	585	Yellow	Clear	10	2.0	20	L62807CT-ND◆	.49	.42	.35	2,000	210.00/M	CMD67-21VYC/TR8
	660	Super Red	Clear	40	1.7	20	L62811CT-ND◆	.63	.54	.45	2,000	270.00/M	CMD67-21SRC/TR8
	660	Ultra Red	Clear	62	1.7	20	L628111CT-ND◆	.88	.75	.63	2,000	375.00/M	CMD67-21URC/TR8
							CMD67-22 Series — RoHS Compliant						
10	640/570	Red/Grn.	Clear	10.0/25.0	2.0/2.1	20	L628015CT-ND	.90	.78	.65	2,000	385.50/M	CMD67-22VRVGC/TR8
	660/565	Red/Grn.	Clear	40.0/25.0	1.7/2.1	20	L6281115CT-ND	.90	.78	.65	2,000	385.50/M	CMD67-22SRUGC/TR8
							CMD91-21/TR7 Series						
11	640	Red	Clear	80	2.0	20	L62901CT-ND	.42	.36	.30	1,000	180.00	CMD91-21VRC/TR7
	565	Green	Clear	50	2.1	20	L62905CT-ND◆	.42	.36	.30	1,000	180.00	CMD91-21VGC/TR7
	585	Yellow	Clear	30	2.0	20	L62907CT-ND◆	.42	.36	.30	1,000	180.00	CMD91-21VYC/TR7
	660	Super Red	Clear	170	1.7	20	L62911CT-ND	.49	.42	.35	1,000	210.00	CMD91-21SRC/TR7
							CMD91-21/TR9 Series						
12	640	Red	Clear	80	2.0	20	L63001CT-ND	.42	.36	.30	1,000	180.00	CMD91-21VRC/TR9
	565	Green	Clear	50	2.1	20	L63005CT-ND	.42	.36	.30	1,000	180.00	CMD91-21VGC/TR9
	585	Yellow	Clear	30	2.0	20	L63007CT-ND	.49	.42	.35	1,000	210.00	CMD91-21VYC/TR9
	660	Super Red	Clear	170	1.7	20	L63011CT-ND◆	.49	.42	.35	1,000	210.00	CMD91-21SRC/TR9
							CMD91-21/TR10 Series						
13	640	Red	Clear	80	2.0	20	L63101CT-ND	.33	.29	.24	1,000	142.50	CMD91-21VRC/TR10
	565	Green	Clear	50	2.1	20	L63105CT-ND◆	.33	.29	.24	1,000	142.50	CMD91-21VGC/TR10
	585	Yellow	Clear	30	2.0	20	L63107CT-ND	.33	.29	.24	1,000	142.50	CMD91-21VYC/TR10
	660	Super Red	Clear	170	1.7	20	L63111CT-ND	.38	.33	.28	1,000	163.50	CMD91-21SRC/TR10
							CMD93-21/F8 Series						
14	640	Red	Clear	12	2.0	20	L63201CT-ND	.56	.48	.40	2,000	240.00/M	CMD93-21VRC/TR8
	570	Green	Clear	25	2.1	20	L63205CT-ND◆	.49	.42	.35	2,000	210.00/M	CMD93-21VGC/TR8
							CMD93-22/F8 Series						
15	660/570	Red/Grn.	Clear	40.0/20.0	1.7/2.1	20	L632115CT-ND	.81	.70	.58	1,000	348.00	CMD93-22SRVGC/TR8
							CMD95-21/TR7 Series						
16	640	Red	Clear	25	2.0	20	L63301CT-ND	.42	.36	.30	1,000	180.00	CMD95-21VRC/TR7
	570	Green	Clear	19.5	2.1	20	L63305CT-ND◆	.46	.39	.33	1,000	195.00	CMD95-21VGC/TR7
	585	Yellow	Clear	25	2.0	20	L63307CT-ND	.46	.39	.33	1,000	195.00	CMD95-21VYC/TR7
	660	Super Red	Clear	100	1.7	20	L63311CT-ND	.49	.42	.35	1,000	210.00	CMD95-21SRC/TR7
							CMD95-21/TR9 Series						
17	640	Red	Clear	25	2.0	20	L63401CT-ND	.42	.36	.30	1,000	180.00	CMD95-21VRC/TR9
	570	Green	Clear	19.5	2.1	20	L63405CT-ND	.46	.39	.33	1,000	195.00	CMD95-21VGC/TR9
							CMD95-21/TR10 Series						
18	640	Red	Clear	25	2.0	20	L63501CT-ND	.37	.32	.27	1,000	157.50	CMD95-21VRC/TR10
	570	Green	Clear	19.5	2.1	20	L63505CT-ND	.35	.30	.25	1,000	150.00	CMD95-21VGC/TR10
	585	Yellow	Clear	25	2.0	20	L63507CT-ND	.38	.33	.28	1,000	163.50	CMD95-21VYC/TR10
	660	Super Red	Clear	100	1.7	20	L63511CT-ND◆	.38	.33	.28	1,000	163.50	CMD95-21SRC/TR10

◆ ***RoHS Compliant*** † For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

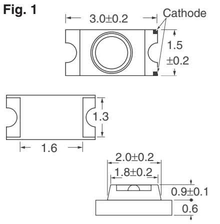

Fig. 2

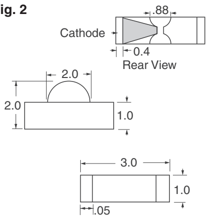

Fig. 3 — 1206

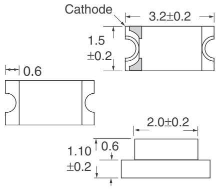

Fig. 4

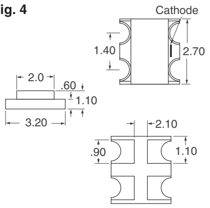

Fig. 5 — 0805

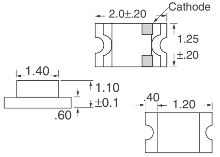

Fig. 6 — 0805

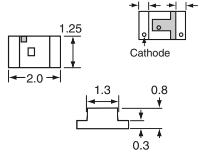

Fig. 7 — 0805

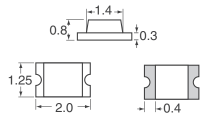

Fig. 8

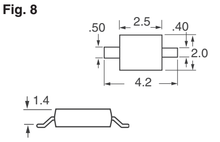

Fig. 9

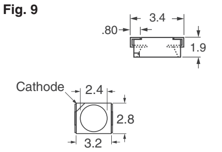

†Anode mark on L628111-ND

Fig. 10

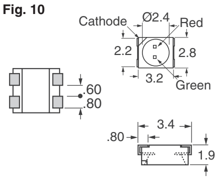

Fig. 11

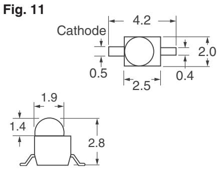

Fig. 12

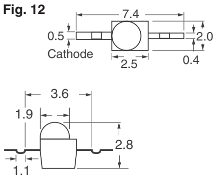

Fig. 13

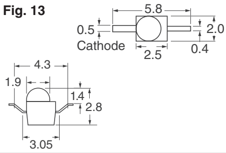

Fig. 14

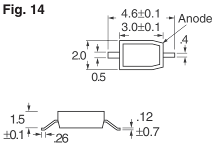

Fig. 15

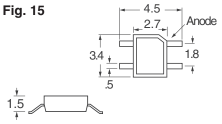

Fig. 16

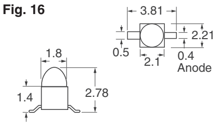

Fig. 17

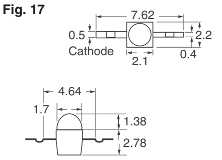

Fig. 18

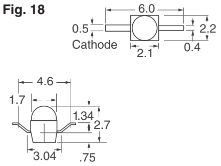

CML INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT

Sub-Miniature Surface Mount LED Assemblies

Dim. in mm

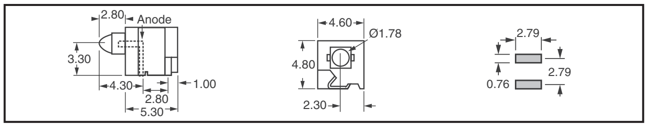

Color	Typical (mcd)	Forward Voltage Typical (V)	(mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing† 750	CML Part No.
Red	5.0	2.2	10	L60041CT-ND◆	1.65	1.41	1.18	528.75	6255T1
Green	4.0	2.3	10	L60045CT-ND	1.65	1.41	1.18	528.75	6255T5
Yellow	3.8	2.2	10	L60047CT-ND	1.65	1.41	1.18	528.75	6255T7
Red	5.0	5.0	10	L60061CT-ND	1.96	1.68	1.40	630.00	6255T1-5V
Amber	5.0	5.0	10	L60063CT-ND	1.96	1.68	1.40	630.00	6255T3-5V
Green	5.0	5.0	10	L60065CT-ND	1.96	1.68	1.40	630.00	6255T5-5V
Red	0.8	1.8	2	L60051CT-ND	1.65	1.41	1.18	528.75	6255T1LC
Green	1.2	1.8	2	L60055CT-ND◆	1.65	1.41	1.18	528.75	6255T5LC
Yellow	0.6	1.9	2	L60057CT-ND	1.65	1.41	1.18	528.75	6255T7LC
Red	2.0	5.0	4	L60071CT-ND	1.96	1.68	1.40	630.00	6255T1-5VLC
Amber	4.0	5.0	4	L60073CT-ND	1.96	1.68	1.40	630.00	6255T3-5VLC
Green	2.0	5.0	4	L60075CT-ND	1.96	1.68	1.40	630.00	6255T5-5VLC

◆ ***RoHS Compliant*** † For Tape and Reel part number, change CT-ND to TR-ND.

Right Angle Surface Mount LEDs

Dim. in mm

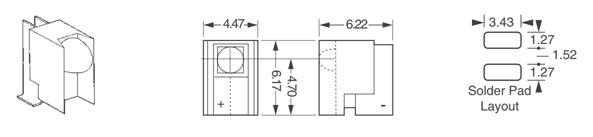

Color	Wave-length	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing† 1,000	CML Part No.
Red	—	10	2.2	L60001CT-ND	1.86	1.59	1.33	795.00	6200T1
Amber	—	10	2.0	L60003CT-ND	1.86	1.59	1.33	795.00	6200T3
Green	—	10	2.3	L60005CT-ND	1.86	1.59	1.33	795.00	6200T5
Yellow	—	10	2.2	L60007CT-ND	1.86	1.59	1.33	795.00	6200T7
Red	635	2	1.8	L60101CT-ND◆	1.86	1.59	1.33	795.00	6200T1LC
Green	565	2	1.8	L60105CT-ND◆	1.86	1.59	1.33	795.00	6200T5LC
Yellow	583	2	1.9	L60107CT-ND	1.86	1.59	1.33	795.00	6200T7LC
Red	635	9.6	5.0	L60201CT-ND	2.17	1.86	1.55	930.00	6202T1-5V
Amber	583	10	5.0	L60203CT-ND	2.17	1.86	1.55	930.00	6202T3-5V
Green	565	10	5.0	L60205CT-ND	2.17	1.86	1.55	930.00	6202T5-5V
Red	635	3.5	5.0	L60301CT-ND	2.17	1.86	1.55	930.00	6202T1-5VLC

◆ ***RoHS Compliant*** † For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount LEDs

Dim. in mm

Source (Dice)	Luminous Intensity Typ. (mcd)	Forward Volt. Typ. (V)	(mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	CML Part No.
Fig. 1 — 7011X Series										
Red/Green	17.0	1.7	20	L61015CT-ND	1.02	.87	.73	2,500	435.00/M	7011X1/5
Green/Yellow	7.5	2.1	20	L61057CT-ND	1.02	.87	.73	2,500	435.00/M	7011X5/7
Fig. 2 — 7012X Series										
Red	11.7	1.7	20	L61101CT-ND◆	.49	.42	.35	4,000	210.00/M	7012X1
Green	6.4	2.1	20	L61105CT-ND◆	.49	.42	.35	4,000	210.00/M	7012X5
Yellow/Green	11.7	2.1	20	L61107CT-ND◆	.49	.42	.35	4,000	210.00/M	7012X7
Yellow	3.7	2.2	20	L61113CT-ND	.49	.42	.35	4,000	210.00/M	7012X13

† For Tape and Reel part number, change CT-ND to TR-ND. ◆ ***RoHS Compliant***

Fig. 1

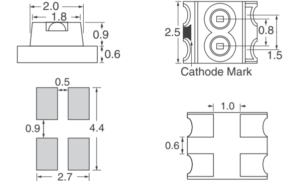

Fig. 2

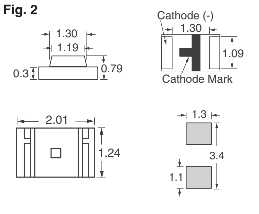

SHARP MICROELECTRONICS

LEDs

Dim. in mm

Fig. 1

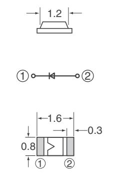

Fig. 2

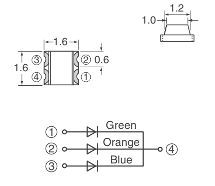

Fig. 3

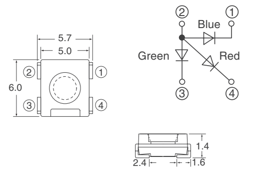

Fig. 4

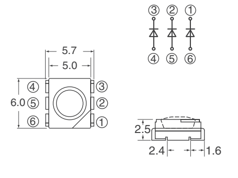

Fig. 5

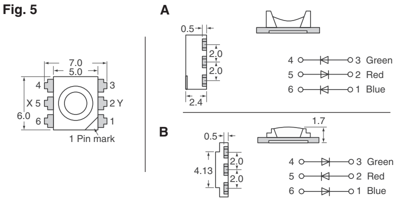

Fig. 6

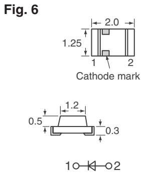

Fig. 7

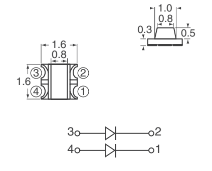

Fig. 8

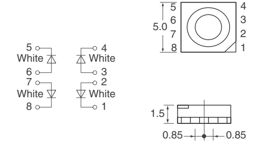

Fig. 9

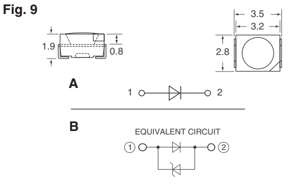

Fig. 10

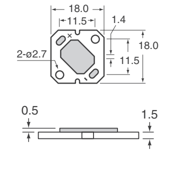

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typical (V)	If Maximum (mA)	Luminous Intensity Iv Typical (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel† Qty.	Pricing	Sharp Part No.
1	1608 Size	Amber	Clear	591	2.0	20	19	150°	425-1813-1-ND	.33	1.80	15.00	—	—	GM1JV35200AE
		Sunset-Orange		609	2.0	20	15	150°	425-1812-1-ND◆	.33	1.80	15.00	6,000	87.00/M	GM1JS35200AE
		Orange		627	2.0	20	19	150°	425-1811-1-ND	.33	1.80	15.00	—	—	GM1JJ35200AE
		Red		635	2.0	50	12.5	160°	425-1929-1-ND◆	1.20	10.00	80.00	—	—	GM1HD55200A
2	1.6 x 1.6	Blue/Green/Orange	Clear	470/528/627	3.2/3.2/2.1	20	30/92/100	—	425-1815-1-ND	7.43	40.50	337.50	—	—	GM1WA80350A
3	5.7 x 6	Red/Green/Blue	Clear	647/518/468	2.0/4.5/4.5	50	300/500/150	—	425-1816-1-ND	5.53	40.89	342.55	—	—	GM5WA02200A
4	5.7 x 6	Red/Green/Blue	Clear	617/520/469	2.3/4.4/4.6	50	1,725	—	425-1818-1-ND◆	5.53	40.95	343.06	800	2390.36	GM5WA06260A
5A	7 x 6	Red/Green/Blue	Clear	—	2.2/4.2/4.2	50	3,000	—	425-1919-1-ND◆	5.98	44.27	370.88	800	2584.22	GM5WA06270A
5B	7 x 6	White	Clear	465	3.4	50	4,000	150°	425-2667-1-ND◆	6.13	48.13	315.00	800	1820.00	GM5BW01300A
6	2012 Size	Yellow-Green	Milky Diffusion	570	2.1	50	19	160°	425-1920-1-ND◆	.28	2.10	17.50	4,000	101.50/M	LT1E40A
		Green		555	2.1	50	5	160°	425-1921-1-ND◆	.28	2.10	17.50	4,000	101.50/M	LT1K40A
		Yellow		585	2.0	50	10.8	160°	425-1922-1-ND◆	.32	2.40	20.00	4,000	116.00/M	LT1H40A
		Red		635	2.0	50	11.9	160°	425-1923-1-ND◆	.32	2.40	20.00	4,000	116.00/M	LT1D40A
		Red		647	2.1	50	78.7	170°	425-1926-1-ND◆	.80	6.00	50.00	4,000	290.00/M	LT1ZR40A
		Amber		591	2.1	50	92.7	170°	425-1927-1-ND◆	.80	6.00	50.00	4,000	290.00/M	LT1ZV40A
7	1616 Size	Yellow-Green/Yellow	Milky Diffusion	565/585	2.1/2.0	50	19/8.3	130°	425-1924-1-ND◆	.44	3.30	27.50	4,000	159.50/M	LT1EH67A
		Yellow-Green/Red		565/635	2.1/2.0	50	19/8.8	130°	425-1925-1-ND◆	.48	3.60	30.00	4,000	174.00/M	LT1ED67A
8	5 x 5	White	Clear	465	3.4	35	10,000	70°	425-2651-1-ND◆	6.69	52.53	343.80	800	1986.40	GM5BW05340A
9A	3.2 x 2.8	White	Clear	465	3.4	20	1,400	—	425-2652-1-ND◆	1.75	13.75	90.00	2,000	650.00/M	GM5BW96320A
9B				0.31‡	3.2	30	2,200	110°	425-2693-1-ND◆§	2.38	18.70	122.40	2,000	884.00/M	GM5BW96380A

Fig.	Description Size (mm)	Emitted Color	Color Coordinates X	Y	Vf Typical (V)	If Maximum (mA)	Luminous Intensity Iv Typical Lumen	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
10	18 x 18	Tungsten	0.45	0.41	10.2	400	200	425-2694-ND◆	35.00	23.24	18.90	GW5BDC15L02
		Normal White	0.35	0.35	10.2	400	280	425-2695-ND◆	35.00	23.24	18.90	GW5BWC15L02
		High Rendering - 6500K	0.31	0.32	10.2	400	190	425-2696-ND◆	35.00	23.24	18.90	GW5BNC15L12

† For Tape and Reel part number, change 1-ND to 2-ND § Bulk ‡ Chromaticity Coordinates ◆ ***RoHS Compliant***

OSRAM LEDs

Opto Semiconductors

Dimensions in mm

Fig. 1 — SMD

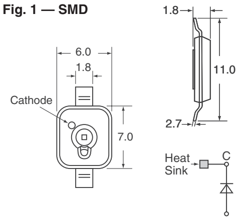

Golden DRAGON® LED

Fig. 2 — P-LCC-2

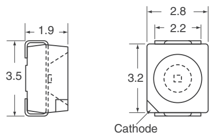

TOPLED®

Fig. 3 — P-LCC-4

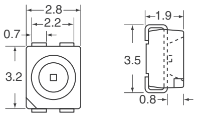

Power TOPLED®

Fig. 4 — P-LCC-4

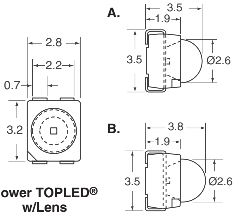

Power TOPLED® w/Lens

Fig. 5 — SMD

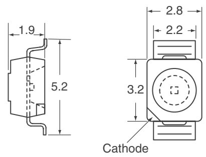

TOPLED® RG

Fig.	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§		Osram Part No.
									1	10	100	Qty.	Pricing	
1	Amber	Clear	624	2.2	400	6,000 @ 400	120	475-1000-1-ND	3.48	29.00	232.00	800	1392.00	LA W57B-FYGY-24
	Yellow	Clear	594	2.2	400	6,000 @ 400	120	475-1001-1-ND	3.59	29.93	239.40	800	1436.80	LY W57B-FYGY-26
2	Orange	Clear	606	2.0	30	210 @ 20	120	475-1003-1-ND	.23	1.95	15.60	2,000	117.00/M	LO T676-R2S2-24
	Orange	Clear	606	1.8	20	100 @ 10	120	475-1065-1-ND	.17	1.45	11.56	—	—	LO T67K-L1M2-24
	Blue	Clear	465	3.6	20	98 @ 20	120	475-1007-1-ND	1.29	10.73	85.80	2,000	644.00/M	LB T67C-P2R1-35
7	Orange	Clear	606	2.0	30	196 @ 20	120	475-1041-1-ND	.28	2.35	18.80	—	—	LO A676-R1S2-24
	Blue	Clear	465	3.6	20	98 @ 20	120	475-1045-1-ND	1.29	10.74	85.92	—	—	LB A67C-P2R1-35
8	Amber	Clear	615	2.0	30	196 @ 20	120	475-1048-1-ND	.27	2.23	17.80	—	—	LA Y876-R1S2-1
	Yellow	Clear	587	2.0	30	196 @ 20	120	475-1051-1-ND	.28	2.33	18.66	—	—	LY Y876-R1S2-26
9A	Green	Diffused	570	2.2	20	20 @ 20	160	475-1056-1-ND	.20	1.63	13.00	5,000	98.00/M	LG L890-L1M2-1
	Orange	Diffused	606	1.8	15	50 @ 10	160	475-1057-1-ND	.21	1.73	13.80	5,000	104.00/M	LO L89K-J2L1-24
RoHS Compliant														
1	Amber	Clear	624	2.2	400	6,000 @ 400	120	475-1129-1-ND	2.44	20.37	162.95	800	977.60	LA W57B-FYGY-24-Z
	Yellow	Clear	594	2.2	400	6,000 @ 400	120	475-1183-1-ND	.75	6.25	50.00	800	300.00	LY W57B-FYGY-26-Z
2	Yellow	Clear	586	2.0	30	11.3 @10	120	475-2561-1-ND ***NEW!***	.18	1.51	12.05	2,000	90.00/M	LY T670-J1L2-26-0-10-R18-Z
	Yellow	Clear	591	1.8	20	14 @ 2	120	475-2562-1-ND ***NEW!***	.14	1.17	9.35	2,000	70.00/M	LY T67K-J2M1-26-0-2-R18-Z
	Yellow	Clear	591	2.0	30	223 @ 20	120	475-2563-1-ND ***NEW!***	.18	1.48	11.81	2,000	89.00/M	LY T686-Q2T1-26-0-20-R18-Z
	Amber	Clear	615	2.0	30	280 @ 20	120	475-1130-1-ND	.19	1.60	12.79	2,000	96.00/M	LA T676-R1S2-1-Z
	Amber	Clear	622	2.0	30	223 @ 20	120	475-1373-1-ND ***NEW!***	.18	1.48	11.81	2,000	89.00/M	LA T676-Q2T1-1-0-20-R18-Z
	Amber	Clear	617	2.1	50	900 @ 30	120	475-1176-1-ND	.31	2.55	20.42	2,000	153.00/M	LA T68B-T2V1-24-Z
	Orange	Clear	610	1.8	20	17.6 @ 2	120	475-2490-1-ND ***NEW!***	.14	1.17	9.35	2,000	70.00/M	LO T67K-K1M2-24-0-2-R18-Z
	Orange	Clear	610	2.0	30	11.3 @ 10	120	475-2489-1-ND ***NEW!***	.18	1.51	12.06	2,000	90.00/M	LO T670-J1L2-24-0-10-R18-Z
	Orange	Clear	606	2.0	30	355 @ 20	120	475-1131-1-ND	.18	1.48	11.80	2,000	89.00/M	LO T676-Q2T1-24-Z
	Orange	Clear	606	1.8	20	28 @ 2	120	475-1178-1-ND	.18	1.48	11.81	2,000	89.00/M	LO T67K-L1M2-24-Z
	Super-Red	Clear	645	2.1	50	370 @ 30	120	475-2515-1-ND ***NEW!***	.31	2.55	20.42	2,000	153.00/M	LS T67B-S1U1-1-0-30-R18-Z
	Super-Red	Clear	645	2.0	30	140 @ 20	120	475-2514-1-ND ***NEW!***	.18	1.48	11.80	2,000	89.00/M	LS T676-P2S1-1-0-20-R18-Z
	Super-Red	Clear	643	1.8	20	11.3 @ 2	120	475-2516-1-ND ***NEW!***	.14	1.17	9.35	2,000	70.00/M	LS T67K-J1L2-1-0-2-R18-Z
	Super-Red	Clear	635	2.0	30	11.3 @ 10	120	475-2513-1-ND ***NEW!***	.16	1.35	10.82	2,000	81.00/M	LS T670-J1L2-1-0-10-R18-Z
	Super-Red	Clear	645	2.0	30	180 @ 20	120	475-1133-1-ND	.19	1.60	12.80	2,000	96.00/M	LS T676-Q1R2-1-Z
	Super-Red	Clear	630	1.8	20	11.2 @ 2	120	475-1180-1-ND	.17	1.38	11.00	2,000	83.00/M	LS T67K-J1K2-1-Z
	Blue	Clear	466	3.1	20	35 @ 10	120	475-1387-1-ND ***NEW!***	.96	8.00	63.96	2,000	480.00/M	LB T673-L2P1-35-0-10-R18-Z
	Blue	Clear	428	3.50	20	11.8 @ 10	120	475-1388-1-ND ***NEW!***	.58	4.83	38.62	2,000	290.00/M	LB T676-J2L2-1-0-10-R18-Z
	Blue	Clear	465	3.6	20	140 @ 20	120	475-1389-1-ND ***NEW!***	1.08	9.04	72.32	2,000	542.00/M	LB T67C-P2S1-35-0-20-R18-Z
	Blue	Clear	470	3.6	20	140 @ 20	120	475-1135-1-ND	1.19	9.90	79.22	2,000	594.00/M	LB T67C-P2R1-35-Z
	Green	Clear	572	2.0	30	22 @ 10	120	475-1411-1-ND ***NEW!***	.19	1.57	12.54	2,000	94.00/M	LG T671-K2N1-1-0-10-R18-Z
	Green	Clear	572	2.0	30	79 @ 20	120	475-1412-1-ND ***NEW!***	.25	2.06	16.48	3,000	124.00/M	LG T676-P1Q2-24-0-20-R18-Z
	True Green	Clear	529	3.0	20	130 @ 10	120	475-2530-1-ND ***NEW!***	1.00	8.30	66.42	2,000	498.00/M	LT T673-N2S1-35-0-10-R18-Z
	True Green	Clear	523	3.5	20	562 @ 20	120	475-2531-1-ND ***NEW!***	1.16	9.63	77.00	2,000	578.00/M	LT T67C-S2V1-35-0-20-R18-Z
	True Green	Clear	528	3.5	20	560 @ 20	120	475-1136-1-ND	1.19	9.90	79.22	2,000	594.00/M	LT T67C-S2U1-35-Z
	Verde Green	Clear	503	3.5	20	445 @ 20	120	475-2535-1-ND ***NEW!***	1.12	9.35	74.78	2,000	561.00/M	LV T67C-S1U2-35-0-20-R18-Z
	Verde Green	Clear	505	3.5	20	450 @ 20	120	475-1137-1-ND	1.18	9.87	78.96	2,000	592.00/M	LV T67C-S1T2-35-Z
	Verde Green	Clear	505	3.5	20	710 @ 20	120	475-1250-1-ND	1.22	10.18	81.42	2,000	611.00/M	LV T67C-T1U2-35-Z
	Pure Green	Clear	557	2.0	30	4.7 @ 10	120	475-2500-1-ND ***NEW!***	.19	1.60	12.80	2,000	96.00/M	LP T670-G2J2-1-0-10-R18-Z
	Pure Green	Clear	562	1.8	20	1.75 @ 2	120	475-2501-1-ND ***NEW!***	.16	1.32	10.58	2,000	79.00/M	LP T67K-E1G2-25-0-2-R18-Z
	Pure Green	Clear	560	1.8	20	2.8 @ 2	120	475-1179-1-ND	.18	1.48	11.80	2,000	89.00/M	LP T67K-F1G2-25-Z
	Pure Green	Clear	560	2.0	30	28 @ 20	120	475-1132-1-ND	.25	2.06	16.48	2,000	124.00/M	LP T676-L1M2-25-Z
	Yellow	Clear	587	1.8	20	22.4 @ 2	120	475-1181-1-ND	.18	1.48	11.81	2,000	89.00/M	LY T67K-K2M1-26-Z
3	Orange Green	Clear Clear	610 572	2.0 2.0	30 30	11.3 @ 10 17.6 @ 10	120 120	475-2492-1-ND ***NEW!***	.32	2.71	21.64	2,000	162.00/M	LOG T671-JL-1-0+KM-1-0-10-R18-Z
	Orange Pure Green	Clear Clear	610 557	2.0 2.0	30 30	11.3 @ 10 4.5 @ 10	120 120	475-2494-1-ND ***NEW!***	.32	2.71	21.64	2,000	162.00/M	LOP T670-JL-1-0+GJ-1-0-10-R18-Z
	Super-Red Green	Clear Clear	635 572	2.0 2.0	30 30	11.3 @ 10 11.3 @ 10	120 120	475-2521-1-ND ***NEW!***	.32	2.71	21.64	2,000	162.00/M	LSG T670-JL-1-0+JL-1-0-10-R18-Z
	Super-Red Pure Green	Clear Clear	635 557	2.0 2.0	30 30	7 @ 10 4.5 @ 10	120 120	475-2524-1-ND ***NEW!***	.32	2.71	21.64	2,000	162.00/M	LSP T670-HK-1-0+GJ-1-0-10-R18-Z
	Yellow Green	Clear Clear	586 572	2.0 2.0	30 30	11.3 @ 10 11.3 @ 10	120 120	475-2567-1-ND ***NEW!***	.32	2.71	21.65	2,000	162.00/M	LYG T670-JL-1-0+JL-1-0-10-R18-Z
	Amber Green Blue	Diffused Diffused Diffused	628 617 465	2.0 3.5 3.6	50 20 20	315 @ 20 590 @ 20 175.5 @ 20	120 120 120	475-1376-1-ND ***NEW!***	1.59	13.28	106.20	2,000	797.00/M	LATBT66B-ST-1+TU-35+QR-35-20-R18-ZB
	Amber Green Blue	Diffused Diffused Diffused	622 617 465	2.0 3.5 3.6	30 20 20	196 @ 20 540 @ 20 168 @ 20	120 120 120	475-1377-1-ND ***NEW!***	1.31	10.95	87.60	2,000	657.00/M	LATBT66C-RS-1+ST7-35+P7Q7-35-20-R18-ZB
	Red Green Blue	Clear Clear Clear	622 523 428	2.0 3.2 3.8	30 20 20	180 @ 20 280 @ 20 18 @ 20	120 120 120	475-1236-1-ND	1.29	10.73	85.80	2,000	643.50/M	LATBT686-QR+RS+KL-Z
	Amber	Clear	624	2.2	70	878 @ 50	120	475-1370-1-ND ***NEW!***	.33	2.77	22.14	2,000	166.00/M	LA E67B-T2AA-24-1-50-R18-Z
	Amber	Clear	624	2.15	70	—	30	475-1280-1-ND	.57	4.74	37.90	2,000	284.00/M	LA E63F-EAFA-24-1-50-R33-Z
	Amber	Clear	617	2.2	70	1,400 @ 50	120	475-1139-1-ND	.39	3.23	25.83	2,000	194.00/M	LA E67B-U2AA-24-1-Z
	Amber	Clear	617	2.15	70	2,675 @ 50	120	475-1300-1-ND	.48	4.00	32.00	2,000	240.00/M	LA E6SF-BACA-24-1-ZI
	Super-Red	Clear	645	2.2	70	562 @ 50	120	475-2505-1-ND ***NEW!***	.37	3.08	24.60	2,000	185.00/M	LS E67B-S2V1-1-1-50-R18-Z
	Super-Red	Clear	633	2.15	70	1,570 @ 50	120	475-1322-1-ND	.48	4.00	32.00	2,000	240.00/M	LS E6SF-V2BA-1-1-Z
	Super-Red	Clear	633	2.2	70	900 @ 50	120	475-1185-1-ND	.41	3.38	27.06	2,000	203.00/M	LS E67B-T2V1-1-1-Z
	Red	Clear	625	2.15	70	1,350 @ 50	120	475-1314-1-ND	.48	4.00	32.00	2,000	240.00/M	LR E6SF-V2AB-1-1-Z
	Orange	Clear	606	2.2	70	1,400 @ 50	120	475-1184-1-ND	.37	3.11	24.84	2,000	186.00/M	LO E67B-U2AA-24-1-Z
	Orange	Clear	606	2.15	70	2,950 @ 50	120	475-1313-1-ND	.50	4.20	33.60	—	—	LO E6SF-ABCB-24-1-ZI
	Yellow	Clear	594	2.2	70	878 @ 50	120	475-2550-1-ND ***NEW!***	.35	2.90	23.20	2,000	174.00/M	LY E67B-T2AA-26-1-50-R18-Z
	Yellow	Clear	587	2.2	70	1,400 @ 50	120	475-1186-1-ND	.39	3.26	26.08	2,000	196.00/M	LY E67B-U2AA-26-1-Z
	Yellow	Clear	590	2.15	70	1,680 @ 50	120	475-1336-1-ND	.50	4.20	33.60	2,000	252.00/M	LY E6SF-AABA-46-1-ZI
	True Green	Clear	520	3.8	30	1,120 @ 30	120	475-1279-1-ND	.82	6.80	54.40	2,000	408.00/M	LT E67C-T1V2-35-0-30-R18-Z
	True Green	Clear	525	3.4	50	1,350 @ 30	120	475-1323-1-ND	.93	7.75	62.00	2,000	465.00/M	LT E6SG-V2AB-36-1-Z
	Verde Green	Clear	503	3.8	30	710 @ 30	120	475-1142-1-ND	1.39	11.56	92.50	—	—	LV E67C-T1U2-35-Z
	Blue	Clear	464	3.4	50	392 @ 30	120	475-1304-1-ND	.93	7.75	62.00	2,000	465.00/M	LB E6SG-S2U1-35-Z

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray ∆ Reverse Mount ◊ 4 Chip ▲ 6 Chip *(Continued)*

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LEDs *(Cont.)*

Digi-Reel®

Dimensions in mm

Fig. 6 — SMD

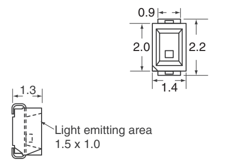

Mini TOPLED® and Hyper Mini TOPLED®

Fig. 7 — SMD

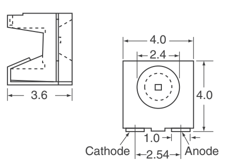

SIDELED®

Fig. 8 — SMD

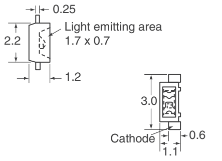

Micro SIDELED® and Hyper SIDELED®

Fig. 9 — SMD 0603

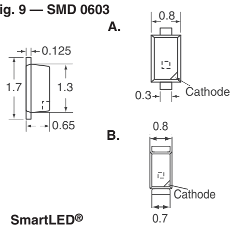

SmartLED®

Fig. 10 — SMD

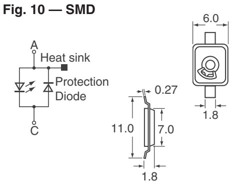

Golden DRAGON® LED and Platinum DRAGON® LED

Fig.	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§		Osram Part No.
									1	10	100	Qty.	Pricing	
3	Blue	Clear	464	3.9	30	176 @ 30	120	475-1382-1-ND ***NEW!***	.77	6.43	51.40	2,000	386.00/M	LB E67C-Q1S2-35-0-30-R18-Z
	Super-Red Green	Clear Clear	645 572	2.0 2.0	30 30	98 @ 20 62.8 @ 20	120 120	475-2522-1-ND ***NEW!***	.32	2.71	21.64	2,000	162.00/M	LSG T676-P7Q7-1-0+N7P7-24-0-20-R18-ZB
	Super-Red Yellow	Clear Clear	645 594	2.0 2.0	50 50	196 @ 30 445 @ 30	120 120	475-2525-1-ND ***NEW!***	.37	3.11	24.88	2,000	187.00/M	LSY T675-R1S2-1-0+S1U2-35-0-30-R18-Z
	Super-Red Yellow	Clear Clear	645 591	2.0 2.0	30 30	98 @ 20 157 @ 20	120 120	475-2526-1-ND ***NEW!***	.32	2.71	21.64	2,000	162.00/M	LSY T676-P2R1-1-0+Q2S1-1-0-20-R18-Z
	Super-Red Yellow	Clear Clear	645 594	2.1 2.1	50 50	295 @ 30 467 @ 30	120 120	475-2527-1-ND ***NEW!***	.43	3.55	28.43	2,000	213.00/M	LSY T67B-R2T2-1-0+S2U2-26-0-30-R18-Z
4A	Amber	Clear	624	2.2	70	2,335 @ 50	60	475-1369-1-ND ***NEW!***	.42	3.54	28.29	2,000	212.00/M	LA E65B-AACA-24-1-50-R33-Z
	Amber	Clear	617	2.3	70	2,240 @ 50	120	475-1197-1-ND	.47	3.88	31.00	2,000	233.00/M	LA E67F-AABA-24-1-Z
	Amber	Clear	617	2.3	70	5,600 @ 50	60	475-1174-1-ND	.51	4.25	34.00	2,000	255.00/M	LA E65F-CADA-24-1-Z
	Amber	Clear	617	2.15	70	6,275 @ 50	60	475-1299-1-ND	.48	4.00	32.00	2,000	240.00/M	LA E65F-CBEA-24-1-Z
	Super-Red	Clear	633	2.15	70	3,920 @ 50	60	475-1321-1-ND	.53	4.45	35.60	2,000	267.00/M	LS E65F-BBDA-1-Z
	Super-Red	Clear	633	2.2	70	2,800 @ 50	60	475-1265-1-ND	.42	3.54	28.30	2,000	212.00/M	LS E65B-V1BB-1-1-50-R33-Z
	True Green	Clear	525	3.8	30	4,500 @ 30	20	475-1143-1-ND	.99	8.25	66.00	2,000	495.00/M	LT E63C-BACB-35-L-Z
	Verde Green	Clear	501	3.8	30	2,035 @ 30	20	475-2534-1-ND ***NEW!***	.98	8.13	65.00	2,000	488.00/M	LV E63C-ABDA-35-0-30-R33-Z
	Verde Green	Clear	503	3.8	30	3,550 @ 30	20	475-1144-1-ND	.99	8.25	66.00	2,000	495.00/M	LV E63C-ABCA-35-L-Z
	Yellow	Clear	594	2.2	70	2,335 @ 50	60	475-2549-1-ND ***NEW!***	.42	3.54	28.30	2,000	212.00/M	LY E65B-AACA-26-1-50-R33-Z
	Yellow	Clear	587	2.2	70	2,800 @ 50	60	475-1189-1-ND	.44	3.69	29.52	2,000	221.00/M	LY E65B-AABB-26-1-Z
	Yellow	Clear	590	2.15	70	4,200 @ 50	60	475-1335-1-ND	.58	4.81	38.50	2,000	289.00/M	LY E65F-CADA-46-1-Z
	Blue	Clear	464	3.9	30	435 @ 30	20	475-1381-1-ND ***NEW!***	.95	7.88	63.00	2,000	473.00/M	LB E63C-T2V2-35-0-30-R33-Z
4B	Amber	Clear	617	2.2	70	4,700 @ 50	30	475-1190-1-ND	.44	3.69	29.52	2,000	221.00/M	LA E63B-CBEA-24-1-Z
	Amber	Clear	617	2.15	70	12,700 @ 50	30	475-1298-1-ND	.60	4.99	39.90	2,000	299.00/M	LA E63F-EBGA-24-1-Z
	Super-Red	Clear	633	2.15	70	7,950 @ 50	30	475-1320-1-ND	.57	4.75	38.00	2,000	285.00/M	LS E63F-DBFA-1-Z
	Super-Red	Clear	633	2.2	70	2,525 @ 50	30	475-1191-1-ND	.46	3.85	30.76	2,000	231.00/M	LS E63B-BBCB-1-1-Z
	Yellow	Clear	587	2.2	70	4,700 @ 50	30	475-1192-1-ND	.46	3.81	30.50	2,000	229.00/M	LY E63B-CBEA-26-1-Z
	Yellow	Clear	590	2.15	70	8,650 @ 50	30	475-1334-1-ND	.56	4.63	37.00	2,000	278.00/M	LY E63F-EAFA-46-1-Z
5	Amber	Clear	622	2.0	30	223 @ 20	120	475-1374-1-ND ***NEW!***	.23	1.91	15.25	2,000	114.00/M	LA T776-Q2T1-1-0-20-R18-Z
	Amber	Clear	615	2.0	30	280 @ 20	120	475-1145-1-ND	.25	2.06	16.48	2,000	124.00/M	LA T776-R1S2-1-Z
	Blue	Clear	466	3.1	20	55 @ 20	120	475-1390-1-ND ***NEW!***	1.01	8.46	67.66	2,000	507.00/M	LB T773-L2P1-35-0-10-R18-Z
	Blue	Clear	428	3.50	20	11.8 @ 10	120	475-1391-1-ND ***NEW!***	.63	5.26	42.06	2,000	315.00/M	LB T776-J2L2-1-0-10-R18-Z
	Orange	Clear	610	2.0	30	11.3 @ 10	120	475-2491-1-ND ***NEW!***	.20	1.66	13.28	2,000	100.00/M	LO T770-J1L2-24-0-10-R18-Z
	Pure Green	Clear	560	2.4	30	28 @ 20	120	475-1147-1-ND	.28	2.34	18.70	2,000	140.00/M	LP T776-L1M2-25-Z
	Green	Clear	572	2.0	30	17 @ 10	120	475-1413-1-ND ***NEW!***	.22	1.82	14.52	2,000	109.00/M	LG T770-K1M2-1-0-10-R18-Z
	Super-Red	Clear	633	2.0	30	180 @ 20	120	475-1148-1-ND	.21	1.75	14.02	2,000	105.00/M	LS T776-Q1R2-1-Z
	Super-Red	Clear	645	2.0	30	140 @ 20	120	475-2517-1-ND ***NEW!***	.19	1.60	12.80	2,000	96.00/M	LS T776-P2S1-1-0-20-R18-Z
	Super-Red	Clear	643	1.8	20	11.3 @ 2	120	475-2518-1-ND ***NEW!***	.16	1.32	10.58	2,000	79.00/M	LS T77K-J1L2-1-0-2-R18-Z
	Yellow	Clear	587	2.0	30	280 @ 20	120	475-1149-1-ND	.23	1.91	15.25	2,000	101.00/M	LY T776-R1S2-26-Z
	Yellow	Clear	591	2.0	30	223 @ 20	120	475-2564-1-ND ***NEW!***	.21	1.75	14.02	2,000	105.00/M	LY T776-Q2T1-26-0-20-R18-Z
6	Amber	Clear	622	2.0	30	223 @ 20	120	475-1371-1-ND ***NEW!***	.18	1.48	11.81	3,000	89.00/M	LA M676-Q2T1-1-0-20-R18-Z
	Amber	Clear	624	2.1	50	628 @ 30	120	475-1372-1-ND ***NEW!***	.34	2.86	22.88	3,000	172.00/M	LA M67B-T2V1-1-0-30-R18-Z
	Amber	Clear	615	2.0	30	224 @ 20	120	475-1150-1-ND	.19	1.60	12.79	3,000	96.00/M	LA M676-Q2S1-1-Z
	Orange	Clear	610	2.0	30	8.8 @ 10	120	475-2483-1-ND ***NEW!***	.18	1.47	11.78	3,000	88.00/M	LO M670-H2L1-24-0-10-R18-Z
	Orange	Clear	610	2.0	30	223 @ 20	120	475-2484-1-ND ***NEW!***	.19	1.60	12.80	3,000	96.00/M	LO M676-Q2T1-24-0-20-R18-Z
	Orange	Clear	610	1.8	20	14 @ 2	120	475-2485-1-ND ***NEW!***	.14	1.17	9.35	3,000	70.00/M	LO M67K-J2M1-24-0-2-R18-Z
	Orange	Clear	606	2.0	30	224 @ 20	120	475-1152-1-ND	.21	1.75	14.02	3,000	105.00/M	LO M676-Q2S1-24-Z
	Super-Red	Clear	635	2.0	30	8.8 @ 10	120	475-2508-1-ND ***NEW!***	.19	1.60	12.79	3,000	96.00/M	LS M670-H2L1-1-0-10-R18-Z
	Super-Red	Clear	645	2.0	30	140 @ 20	120	475-2509-1-ND ***NEW!***	.19	1.60	12.80	3,000	96.00/M	LS M676-P2S1-1-0-20-R18-Z
	Super-Red	Clear	630	1.8	20	8.8 @ 2	120	475-2510-1-ND ***NEW!***	.15	1.23	9.84	3,000	74.00/M	LS M67K-H2L1-1-0-2-R18-Z
	Super-Red	Clear	633	2.0	30	140 @ 20	120	475-1153-1-ND	.21	1.75	14.02	3,000	105.00/M	LS M676-P2R1-1-Z
	Yellow	Clear	591	2.0	30	223 @ 20	120	475-2554-1-ND ***NEW!***	.19	1.60	12.80	3,000	96.00/M	LY M676-Q2T1-26-0-20-R18-Z
	Yellow	Clear	591	1.8	20	11.3 @ 2	120	475-2555-1-ND ***NEW!***	.15	1.23	9.84	3,000	74.00/M	LY M67K-J1L2-26-0-2-R18-Z
	Yellow	Clear	587	2.0	30	224 @ 20	120	475-1154-1-ND	.21	1.75	14.02	3,000	105.00/M	LY M676-Q2S1-26-Z
	Blue	Clear	471	3.2	20	28 @ 10	120	475-1155-1-ND	1.03	8.61	68.88	3,000	517.00/M	LB M673-L1M2-35-Z
	Blue	Clear	428	3.5	20	11.3 @ 10	120	475-1386-1-ND ***NEW!***	.63	5.26	42.06	3,000	315.00/M	LB M676-J1L2-1-0-10-R18-Z
	Blue	Clear	466	3.1	20	28 @ 10	120	475-1385-1-ND ***NEW!***	1.00	8.30	66.42	3,000	498.00/M	LB M673-L1N2-35-0-10-R18-Z
	Green	Clear	570	2.4	30	90 @ 20	120	475-1151-1-ND	.26	2.18	17.46	3,000	131.00/M	LG M676-N2Q1-24-Z
	Green	Clear	572	2.0	30	14 @ 10	120	475-1405-1-ND ***NEW!***	.16	1.33	10.64	3,000	80.00/M	LG M670-J2M1-1-0-10-R18-Z
	Green	Clear	572	1.8	20	4.5 @ 2	120	475-1406-1-ND ***NEW!***	.16	1.32	10.58	3,000	79.00/M	LG M67K-G1J2-24-0-2-R18-Z
	True Green	Clear	529	3.0	20	180 @ 10	120	475-1156-1-ND	1.03	8.61	68.88	3,000	517.00/M	LT M673-N1R2-35-Z
	Pure Green	Clear	557	2.0	30	3.7 @ 10	120	475-2496-1-ND ***NEW!***	.21	1.75	14.02	3,000	105.00/M	LP M670-G1J1-1-0-10-R18-Z
	Pure Green	Clear	562	2.0	40	39.2 @ 30	120	475-2497-1-ND ***NEW!***	.40	3.32	26.56	3,000	199.00/M	LP M675-M2P1-25-0-30-R18-Z
	Pure Green	Clear	562	2.0	30	15.7 @ 20	120	475-2498-1-ND ***NEW!***	.30	2.49	19.92	3,000	149.00/M	LP M676-K2M1-25-0-20-R18-Z
	Pure Green	Clear	562	1.8	20	1.4 @ 2	120	475-2499-1-ND ***NEW!***	.18	1.48	11.80	3,000	89.00/M	LP M67K-D2G1-25-0-2-R18-Z
7	Amber	Clear	615	2.0	30	280 @ 20	120	475-1158-1-ND	.21	1.75	14.02	2,000	105.00/M	LA A676-R1S2-1-Z
	Orange	Clear	610	2.0	30	223 @ 20	120	475-1418-1-ND ***NEW!***	.19	1.60	12.80	2,000	96.00/M	LO A676-Q2T1-24-0-20-R33-Z
	Orange	Clear	610	2.1	40	628 @ 30	120	475-2479-1-ND ***NEW!***	.34	2.83	22.63	2,000	170.00/M	LO A67B-T2V1-24-0-30-R33-Z
	Orange	Clear	606	2.0	30	280 @ 20	120	475-1159-1-ND	.21	1.75	14.02	2,000	105.00/M	LO A676-R1S2-24-Z
	Super-Red	Clear	645	2.1	40	392 @ 30	120	475-2503-1-ND ***NEW!***	.34	2.83	22.64	2,000	170.00/M	LS A67B-S2U1-1-0-30-R33-Z
	Super-Red	Clear	643	1.8	20	11.3 @ 2	120	475-2504-1-ND ***NEW!***	.19	1.60	12.79	2,000	96.00/M	LS A67K-J1L2-1-0-2-R33-Z
	Super-Red	Clear	645	2.0	30	224 @ 20	120	475-1277-1-ND	.21	1.75	14.02	2,000	105.00/M	LS A676-P2S1-1-0-20-R33-Z
	Blue	Clear	466	3.1	20	35 @ 10	120	475-1379-1-ND ***NEW!***	1.00	8.30	66.42	2,000	498.00/M	LB A673-L2P1-35-0-10-R33-Z
	Blue	Clear	428	3.50	20	11.8 @ 10	120	475-1380-1-ND ***NEW!***	.61	5.10	40.84	2,000	306.00/M	LB A676-J2L2-1-0-10-R33-Z
	Blue	Clear	470	3.6	20	140 @ 20	120	475-1163-1-ND	1.15	9.62	77.00	2,000	577.00/M	LB A67C-P2R1-35-Z
	Pure Green	Clear	562	1.8	20	1.75 @ 2	120	475-2495-1-ND ***NEW!***	.18	1.48	11.80	2,000	89.00/M	LP A67K-E1G2-25-0-2-R33-Z
	Pure Green	Clear	560	2.0	40	71 @ 30	120	475-1175-1-ND	.39	3.23	25.84	2,000	194.00/M	LP A675-N1P2-25-Z
	Pure Green	Clear	560	1.8	20	1.8 @ 2	120	475-1248-1-ND	.18	1.54	12.30	2,000	92.00/M	LP A67K-E1F2-25-Z
	Pure Green	Clear	560	2.4	30	28 @ 20	120	475-1160-1-ND	.30	2.49	19.92	2,000	149.00/M	LP A676-L1M2-25-Z
	Green	Clear	572	2.0	30	79 @ 20	120	475-1403-1-ND ***NEW!***	.28	2.34	18.70	2,000	140.00/M	LG A676-P1Q2-24-0-20-R33-Z
	True Green	Clear	529	3.0	20	130 @ 10	120	475-2528-1-ND ***NEW!***	1.03	8.61	68.88	2,000	517.00/M	LT A673-N2S1-35-0-10-R33-Z
	True Green	Clear	523	3.5	20	562 @ 20	120	475-2529-1-ND ***NEW!***	1.16	9.63	77.00	2,000	578.00/M	LT A67C-S2V1-35-0-20-R33-Z
	True Green	Clear	528	3.5	20	560 @ 20	120	475-1164-1-ND	1.19	9.90	79.22	2,000	594.00/M	LT A67C-S2U1-35-Z
	Yellow	Clear	594	2.0	40	445 @ 30	120	475-2546-1-ND ***NEW!***	.39	3.23	25.84	2,000	194.00/M	LY A675-S1U2-26-0-30-R33-Z
	Yellow	Clear	594	2.1	40	590 @ 30	120	475-2547-1-ND ***NEW!***	.37	3.08	24.60	2,000	185.00/M	LY A67B-T1V1-26-0-30-R33-Z
	Yellow	Clear	591	1.8	20	14 @ 2	120	475-2548-1-ND ***NEW!***	.16	1.32	10.58	2,000	79.00/M	LY A67K-J2M1-26-0-2-R33-Z

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray ∆ Reverse Mount ◊ 4 Chip ▲ 6 Chip *(Continued)*

Dimensions in mm

Fig. 11 — P-LCC-6

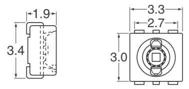

Advanced Power TOPLED®

Fig. 12 — SMD

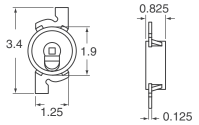

PointLED® and Hyper PointLED®

Fig. 13 — P-LCC-6

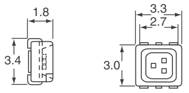

MULTILED®

Fig. 14 — SMD 0805

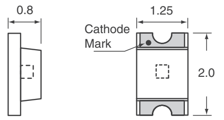

Hyper CHIPLED

Fig. 15 — SMD

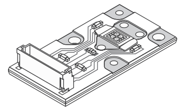

OSTAR® — Projection (4 Chip Shown)

Fig.	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§		Osram Part No.
									1	10	100	Qty.	Pricing	
7	Yellow	Clear	587	2.0	30	355 @ 20	120	475-1162-1-ND	.21	1.75	14.02	2,000	105.00/M	LY A676-Q2T1-26-Z
	Yellow	Clear	587	1.8	20	14.0 @ 2	120	475-1252-1-ND	.18	1.48	11.81	2,000	89.00/M	LY A67K-J2L1-26-Z
	Blue	Clear	465	3.6	20	140 @ 20	120	475-1342-1-ND ***NEW!***	1.12	9.35	74.78	2,000	561.00/M	LB A67C-P2S1-35-0-20-R33-Z
	Super-Red	Clear	635	2.0	30	17.6 @ 10	120	475-2520-1-ND ***NEW!***	.33	2.79	22.30	2,000	167.00/M	LSG A671-JL-1-0+KM-1-0-10-R33-Z
	Green	Clear	572	2.0	30	11.3 @ 10	120							
8	Yellow	Clear	591	2.0	30	223 @ 20	120	475-2566-1-ND ***NEW!***	.21	1.75	14.02	3,000	105.00/M	LY Y876-Q2T1-26-0-20-R18-Z
	Super-Red	Clear	645	2.0	30	140 @ 20	120	475-2519-1-ND ***NEW!***	.17	1.45	11.60	3,000	87.00/M	LS Y876-P2S1-1-0-20-R18-Z
	Amber	Clear	615	2.0	30	224 @ 20	120	475-1166-1-ND	.21	1.75	14.03	—	—	LA Y876-Q2S1-1-Z
	Orange	Clear	606	2.0	30	355 @ 20	120	475-1167-1-ND	.19	1.60	12.80	3,000	96.00/M	LO Y876-R2T1-24-Z
	Orange	Clear	610	2.0	30	222 @ 20	120	475-1266-1-ND	.17	1.45	11.60	3,000	87.00/M	LO Y876-Q2T1-24-0-20-R18-Z
	Blue	Clear	465	3.6	20	113 @ 20	120	475-1394-1-ND ***NEW!***	.90	7.50	60.00	3,000	450.00/M	LB Y87C-P1R2-35-0-20-R18-Z
	Blue	Clear	465	3.4	15	28 @ 10	120	475-1395-1-ND ***NEW!***	.79	6.60	52.80	3,000	396.00/M	LB Y87S-L1N2-35-0-10-R18-Z
	Blue	Clear	470	3.8	15	45 @ 10	120	475-1171-1-ND	.82	6.85	54.80	3,000	411.00/M	LB Y87S-M1N2-35-Z
	Green	Clear	572	2.0	30	14 @ 10	120	475-1414-1-ND ***NEW!***	.15	1.23	9.84	3,000	74.00/M	LG Y870-J2M1-1-0-10-R18-Z
	Green	Clear	570	2.5	30	22.4 @ 10	120	475-1170-1-ND	.20	1.66	13.28	3,000	100.00/M	LG Y870-K2M1-1-Z
	True Green	Clear	523	3.4	15	70 @ 10	120	475-2533-1-ND ***NEW!***	.87	7.23	57.80	3,000	434.00/M	LT Y87S-N1Q2-35-0-10-R18-Z
9A	Orange	Diffused	610	1.8	20	14 @ 2	160	475-1194-1-ND	.16	1.33	10.60	5,000	80.00/M	LO L29K-J2L1-24
	Yellow	Diffused	587	1.8	20	11.20 @ 2	160	475-1196-1-ND	.13	1.10	8.80	5,000	66.00/M	LY L29K-H1K2-26
9B	Blue	Diffused	465	2.90	20	39.2 @ 10	155/135	475-1383-1-ND ***NEW!***	.60	5.00	40.00	5,000	300.00/M	LB L293-M2P1-36-1-10-R18-Z
	Orange	Diffused	610	2.0	30	135 @ 20	160	475-2480-1-ND ***NEW!***	.14	1.20	9.60	5,000	72.00/M	LO L296-P1S1-24-0-20-R18-Z
	Orange	Diffused	610	1.8	20	8.8 @ 2	160	475-2481-1-ND ***NEW!***	.13	1.10	8.80	5,000	66.00/M	LO L29K-H2L1-24-0-2-R18-Z
	Super-Red	Diffused	643	1.8	20	4.5 @ 2	160	475-2506-1-ND ***NEW!***	.13	1.10	8.80	5,000	66.00/M	LS L29K-G1J2-1-0-2-R18-Z
	Yellow	Diffused	591	2.0	30	113 @ 20	160	475-2552-1-ND ***NEW!***	.15	1.23	9.80	5,000	74.00/M	LY L296-P1R2-26-0-20-R18-Z
10	Red	Clear	632	2.2	500	11,500 @ 400	120	475-2502-1-ND ***NEW!***	3.00	25.00	200.00	800	1200.00	LR W5SM-GZHZ-1-0-400-R18-Z
	Red	Clear	632	2.5	1000	24,800 @ 700	120	475-1317-1-ND	3.30	27.50	220.00	800	1320.00	LR W5SN-JYKY-1-Z
	Red	Clear	632	2.2	500	15,600 @ 400	120	475-1339-1-ND	3.00	25.00	200.00	800	1200.00	LR W5SM-HYJY-1-Z
	Amber	Clear	624	2.2	500	13,300 @ 400	120	475-1375-1-ND ***NEW!***	3.00	25.00	200.00	800	1200.00	LA W5SM-HXJX-24-0-400-R18-Z
	Amber	Clear	624	2.2	500	18,300 @ 400	120	475-1235-1-ND	3.30	27.50	220.00	800	1320.00	LA W5SM-HZJZ-24-Z
	Amber	Clear	624	2.5	1000	28,800 @ 700	120	475-1303-1-ND	3.60	30.00	240.00	800	1440.00	LA W5SN-JZKZ-24-Z
	Blue	Clear	465	3.8	100	3,600 @ 350	120	475-1392-1-ND ***NEW!***	6.60	55.00	440.00	800	2640.00	LB W5SG-EXFY-35-0-350-R18-Z
	Blue	Clear	465	3.2	100	4,900 @ 350	120	475-1393-1-ND ***NEW!***	4.95	41.25	330.00	800	1980.00	LB W5SM-EYGX-35-0-350-R18-Z
	Blue	Clear	465	3.8	500	2,700 @ 350	120	475-1198-1-ND	6.30	52.50	420.00	800	2520.00	LB W5SG-DYEZ-35-Z
	Blue	Clear	465	3.6	1000	8,000 @ 700	120	475-1306-1-ND	5.10	42.50	340.00	800	2040.00	LB W5SN-FYHX-35-Z
	True Green	Clear	520	3.2	100	17,500 @ 350	120	475-2532-1-ND ***NEW!***	4.95	41.25	330.00	800	1980.00	LT W5SM-HYJZ-36-0-350-R18-Z
	True Green	Clear	520	3.8	500	10,000 @ 350	120	475-1126-1-ND	5.80	48.30	386.40	800	2318.40	LT W5SG-GXHY-35-Z
	True Green	Clear	520	3.2	500	17,500 @ 350	120	475-1325-1-ND	4.95	41.25	330.00	800	1980.00	LT W5SM-HYJZ-36-Z
	True Green	Clear	520	3.6	1000	27,500 @ 700	120	475-1326-1-ND	5.10	42.50	340.00	800	2040.00	LT W5SN-JYKZ-36-Z
	Verde Green	Clear	501	3.8	500	9,000 @ 350	120	475-1199-1-ND	6.30	52.50	420.00	800	2520.00	LV W5SG-GXHX-35-Z
	Yellow	Clear	597	2.2	500	12,600 @ 400	120	475-2565-1-ND ***NEW!***	3.30	27.50	220.00	800	1320.00	LY W5SM-GZJX-46-0-400-R18-Z
	Yellow	Clear	597	2.5	1000	24,800 @ 700	120	475-1338-1-ND	3.60	30.00	240.00	800	1440.00	LY W5SN-JYKY-46-Z
11	Yellow	Clear	594	2.2	200	4,670 @ 140	120	475-2551-1-ND ***NEW!***	1.20	10.00	80.00	1,000	600.00	LY G6SP-BBDB-36-1-140-R18-Z
	Amber	Clear	624	2.1	200	9,000 @ 140	120	475-1247-1-ND	1.20	10.00	80.00	1,000	600.00	LA G6SP-CBEA-24-1-Z
	Red	Clear	632	2.1	200	4,950 @ 140	120	475-1315-1-ND	1.20	10.00	80.00	1,000	600.00	LR G6SP-CADB-1-1-Z
	Blue	Clear	465	3.6	250	1,850 @ 140	120	475-1305-1-ND	2.55	21.25	170.00	1,000	1275.00	LB G6SP-V2BB-35-1-Z
	True Green	Clear	520	3.6	250	7,375 @ 140	120	475-1324-1-ND	2.55	21.25	170.00	1,000	1275.00	LT G6SP-CBEB-25-1-Z
12	Green	Clear	572	1.8	20	5.6 @ 2	120	475-1408-1-ND ***NEW!***	.13	1.10	8.80	3,000	66.00/M	LG P47K-G2K1-24-0-2-R18-Z
	Super-Red	Clear	643	1.8	20	7 @ 2	120	475-2511-1-ND ***NEW!***	.12	1.03	8.20	3,000	62.00/M	LS P47K-H1K2-1-0-2-R18-Z
	Super-Red	Clear	633	2.0	50	1,400 @ 30	120	475-1249-1-ND	.42	3.53	28.20	3,000	212.00/M	LS P47F-U1AA-1-1-Z
	Red	Clear	625	2.0	50	1,180 @ 30	120	475-1316-1-NDΔ	.42	3.53	28.20	3,000	212.00/M	LR P47F-U2AB-1-1-Z
	Amber	Clear	617	2.0	50	1,850 @ 30	120	475-1301-1-NDΔ	.42	3.53	28.20	3,000	212.00/M	LA P47F-V2BB-24-1-Z
	Yellow	Clear	590	2.05	50	1,180 @ 30	120	475-1337-1-NDΔ	.42	3.53	28.20	3,000	212.00/M	LY P47F-U2AB-36-1-Z
13	Red	Diffused	632	2.1	70	590 @ 20	120	475-1318-1-ND	1.97	16.43	131.40	1,000	986.00	LRTB G6SG-T1V1-1+U1AA-25+R
	True Green	Diffused	523	3.2	50	925 @ 20	120							
	Blue	Diffused	453	3.2	50	336 @ 20	120							
	Red	Diffused	632	2.1	70	590 @ 20	120	475-1319-1-ND	1.97	16.43	131.40	1,000	986.00	LRTB G6TG-TU7+VV7+ST7+IB
	True Green	Diffused	523	3.2	50	1,055 @ 20	120							
	Blue	Diffused	465	3.2	50	370 @ 20	120							
14	Green	Diffused	572	2.2	25	26 @ 20	160	475-1410-1-ND ***NEW!***	.05	.42	3.33	4,000	25.00/M	LG R971-KN-1-0-20-R18
	Hyper-Red	Diffused	660	1.8	30	15 @ 20	160	475-1415-1-ND ***NEW!***	.05	.46	3.66	4,000	27.00/M	LH R974-LP-1-0-20-R18
	Orange	Diffused	610	2.2	25	10.4 @ 20	160	475-2487-1-ND ***NEW!***	.05	.41	3.30	4,000	25.00/M	LO R971-HL-1-0-20-R18
	Orange	Diffused	610	2.0	25	163 @ 20	160	475-2488-1-ND ***NEW!***	.07	.60	4.76	4,000	36.00/M	LO R976-PS-1-0-20-R18
	Yellow	Diffused	589	2.2	20	10.4 @ 20	160	475-2559-1-ND ***NEW!***	.05	.41	3.30	4,000	25.00/M	LY R971-HL-1-0-20-R18
	Yellow	Diffused	591	2.0	25	163 @ 20	160	475-2560-1-ND ***NEW!***	.07	.60	4.76	4,000	36.00/M	LY R976-PS-36-0-20-R18
	Super-Red	Diffused	645	2.0	25	180 @ 20	160	475-1278-1-ND	.07	.60	4.76	4,000	36.00/M	LS R976-NR-1-0-20-R18
15	Amber	Clear	627	2.9	750	68,000 @ 750	120	475-1281-ND*◊	80.00	640.00	5800.00	—	—	LE A A2A-HBKB-1
	Amber	Clear	627	2.8	1000	155,000 @ 1000	120	475-1282-ND*▲	108.00	864.00	7830.00	—	—	LE A H3A-KBMA-34
	Blue	Clear	460	3.5	700	11,000 @ 500	120	475-1285-ND*◊	80.00	640.00	5800.00	—	—	LE B A2A-EWJW-23
	True Green	Clear	521	3.5	700	56,000 @ 500	120	475-1293-ND*◊	80.00	640.00	5800.00	—	—	LE T A2A-JAKA-35
	Blue	Clear	460	4.0	1000	40,000 @ 1000	120	475-1286-ND*▲	108.00	864.00	7830.00	—	—	LE B H3A-GWJW-23
	True Green	Clear	516	4.0	1000	155,000 @ 1000	120	475-1294-ND*▲	108.00	864.00	7830.00	—	—	LE T H3A-KBMA-24
	Amber	Clear	627	2.8	1000	105,000 @ 1000	120	475-1283-ND*▲	108.00	864.00	7830.00	—	—	LE AB H3AB-JBLA-1+EWFW-23
	Blue	Clear	460	4.0	1000	13,000 @ 1000	120							
	Amber	Clear	627	2.9	750	18,000 @ 750	120	475-1284-ND*◊	80.00	640.00	5800.00	—	—	LE ATB A2A
	True Green	Clear	521	3.5	700	28,000 @ 500	120							
	Blue	Clear	460	3.5	700	3,500 @ 500	120							
	Amber	—	627	2.9	750	36,000 @ 500	120	475-1398-ND*◊ ***NEW!***	80.00	640.00	5800.00	—	—	LE AB A2A-HMJB-1+DWFW-1
	Blue	—	460	3.5	700	7,000 @ 750	120							
18	Amber	Diffused	622	2.0	30	315 @ 20	70	475-1366-ND‡ ***NEW!***	.12	.94	8.56	—	—	LA 3366-R1T2-1-0-20-BULK
	Green	Clear	572	2.0	40	41 @ 10	50	475-1399-ND‡ ***NEW!***	.09	.71	6.42	—	—	LG 3330-LP-1-0-10-BULK
	Green	Clear	572	2.0	40	60 @ 10	40	475-1400-ND‡ ***NEW!***	.07	.54	4.93	—	—	LG 3341-KQ-1-0-10-BULK
	Green	Diffused	572	2.0	40	15 @10	70	475-1401-ND‡ ***NEW!***	.07	.56	5.08	—	—	LG 3360-HM-1-0-10-BULK
	Green	Diffused	572	1.9	7.5	3.9 @ 2	60	475-1402-ND‡ ***NEW!***	.07	.56	5.08	—	—	LG 3369-EJ-1-0-2-BULK
	Orange	Diffused	610	1.8	40	15 @ 20	160	475-1416-ND‡ ***NEW!***	.08	.63	5.71	—	—	LO 3360-JM-24-0-10-BULK
19	Green	Diffused	572	2.2	25	10 @ 20	160	475-1409-1-ND ***NEW!***	.05	.41	3.30	4,000	25.00/M	LG Q971-KN-1-0-20-R18

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray Δ Reverse Mount ◊ 4 Chip ▲ 6 Chip

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Dimensions in mm

Fig. 16 — SMD

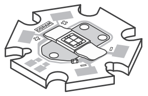

OSTAR® — Lighting (4 Chip Shown)

Fig. 17 — SMD

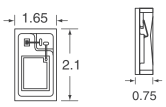

CERAMOS™

Fig. 18 — Through-hole *NEW!*

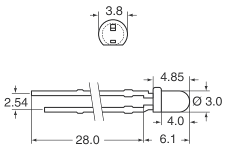

3mm

Fig. 19 — SMD *NEW!*

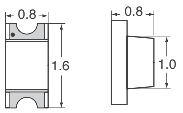

CHIPLED

Fig. 20 — SMD *NEW!*

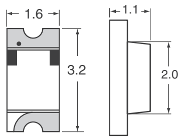

CHIPLED

Fig.	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing	Osram Part No.
19	Yellow	Diffused	589	2.1	20	6 @ 20	160	475-2557-1-ND ***NEW!***	.05	.41	3.30	4,000	25.00/M	LY Q971-H1K1-36-0-20-R18
	Super-Red	Diffused	645	2.0	25	104 @ 20	160	475-2512-1-ND ***NEW!***	.07	.60	4.76	4,000	36.00/M	LS Q976-NR-1-0-20-R18
	Orange	Diffused	610	2.0	25	163 @ 20	160	475-2486-1-ND ***NEW!***	.07	.60	4.76	4,000	36.00/M	LO Q976-PS-25-0-20-R18
	Yellow	Diffused	591	2.0	25	163 @ 20	160	475-2558-1-ND ***NEW!***	.07	.60	4.76	4,000	36.00/M	LY Q976-P1S2-36-0-20-R18
20	Green	Diffused	572	2.2	25	26 @ 20	160	475-1407-1-ND ***NEW!***	.05	.46	3.66	3,000	27.00/M	LG N971-KN-1-0-20-R18
	Yellow	Diffused	589	2.2	20	10.4 @ 20	160	475-2556-1-ND ***NEW!***	.05	.46	3.66	3,000	27.00/M	LY N971-HL-1-0-20-R18
	Hyper-Red	Diffused	660	1.8	30	15 @ 20	160	475-1416-1-ND ***NEW!***	.05	.46	3.66	3,000	27.00/M	LH N974-KN-1-0-20-R18
21	Orange	Clear	610	1.8	15	11.3 @ 2	120	475-2493-1-ND ***NEW!***	.32	2.71	21.64	2,000	162.00/M	LOG T77K-JL-1-0+GJ-1-0-2-R18-Z
	Green	Clear	572	1.8	15	4.5 @ 2	120							
	Super-Red	Clear	635	2.0	30	11.3 @ 10	120	475-2523-1-ND ***NEW!***	.33	2.77	22.14	2,000	166.00/M	LSG T770-JL-1-0+JL-1-0-10-R18-Z
	Green	Clear	572	2.0	30	11.3 @ 10	120							
22	Blue	Clear	465	3.6	20	113 @ 20	120	475-1384-1-ND ***NEW!***	1.13	9.38	75.04	3,000	563.00/M	LB M47C-P1R2-35-1-20-R18-Z
	Green	Clear	572	1.8	20	4.5 @ 2	120	475-1404-1-ND ***NEW!***	.16	1.32	10.58	3,000	79.00/M	LG M47K-G1J2-24-0-2-R18-Z
	Orange	Clear	610	1.8	20	14 @ 2	120	475-2482-1-ND ***NEW!***	.14	1.17	9.35	3,000	70.00/M	LO M47K-J2M1-24-0-2-R18-Z
	Yellow	Clear	591	1.8	20	11.3 @ 2	120	475-2553-1-ND ***NEW!***	.14	1.17	9.35	3,000	70.00/M	LY M47K-J1L2-26-0-2-R18-Z
	Super-Red	Clear	643	1.8	20	8.8 @ 2	120	475-2507-1-ND ***NEW!***	.14	1.17	9.35	3,000	70.00/M	LS M47K-H2L1-1-0-2-R18-Z
23	Blue	Diffused	471	3.1	20	176 @ 10	40	475-1378-ND‡ ***NEW!***	.61	4.86	44.05	—	—	LB 3333-Q1S2-35-0-10-BULK
	Hyper-Red	Diffused	660	1.8	40	15 @ 20	160	475-1415-ND‡ ***NEW!***	.15	1.17	10.60	—	—	LH 3344-Q1T2-1-0-10-BULK
24	Amber	Clear	624	2.0	40	4,110 @ 20	15	475-1367-ND‡ ***NEW!***	.22	1.77	16.05	—	—	LA 541B-AWDW-24-0-20-BULK-I
	Amber	Cear	624	2.0	40	4,355 @ 20	26	475-1368-ND‡ ***NEW!***	.22	1.77	16.05	—	—	LA 543B-AWDW-24-0-20-BULK
	Orange	Clear	610	2.0	40	4,860 @ 20	26	475-1417-ND‡ ***NEW!***	.22	1.77	16.05	—	—	LO 543B-BWDW-24-0-20-BULK
26	Amber	Clear	623	2.5	2000	51cd @ 1.4A	140	475-2580-1-ND ***NEW!***	12.94	107.80	862.40	200	1293.60	LA W5AP-LXMY-24-Z
	Red	Clear	634	2.5	2000	45cd @ 1.4A	140	475-2581-1-ND ***NEW!***	12.94	107.80	862.40	200	1293.60	LR W5AP-KZMX-1-Z
	Yellow	Clear	593	2.5	2000	38cd @ 1.4A	140	475-2582-1-ND ***NEW!***	12.94	107.80	862.40	200	1293.60	LY W5AP-KYLZ-36-Z
	Blue	Clear	465	3.5	2000	16.3cd @ 1.4A	140	475-2583-1-ND ***NEW!***	14.42	120.13	961.00	200	1441.60	LB W5AP-HZKX-23-Z
	Blue	Clear	465	3.5	2000	20.1cd @ 1.4A	140	475-2584-1-ND ***NEW!***	14.42	120.13	961.00	200	1441.60	LB W5AP-JYKY-35-Z
	Deep Blue	Clear	449	3.5	2000	—	140	475-2585-1-ND ***NEW!***	14.42	120.13	961.00	200	1441.60	LD W5AP-3V8A-35-Z
	True Green	Clear	520	3.5	2000	55.4cd @ 1.4A	140	475-2586-1-ND ***NEW!***	12.94	107.80	862.40	200	1293.60	LT W5AP-LYMZ-25-Z

Fig.	Emitted Color	Lens Color	Color Temp. (K)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel§ Qty.	Tape and Reel§ Pricing	Osram Part No.
								RoHS Compliant						
2	White	Diffused	5600	3.1	20	135 @10	120	475-2542-1-ND ***NEW!***	1.11	9.23	73.80	2,000	554.00/M	LW T673-P1S1-5K8L-0-10-R18-Z
	White	Diffused	7300	3.5	20	45 @10	120	475-2543-1-ND ***NEW!***	.79	6.58	52.64	2,000	395.00/M	LW T676-M1P2-25-0-10-R18-Z
	White	Diffused	5600	3.6	20	562 @ 20	120	475-2544-1-ND ***NEW!***	1.16	9.63	77.00	2,000	578.00/M	LW T67C-S2V1-5K8L-0-20-R18-Z
	White	Diffused	5600	3.6	20	392 @ 20	120	475-1138-1-ND	1.22	10.15	81.18	2,000	609.00/M	LW T67C-S2U1-5K8L-Z
3	White	Diffused	5600	3.9	30	700 @ 30	120	475-1187-1-ND	.85	7.05	56.40	2,000	423.00/M	LW E67C-T1V2-5K8L-1-Z
	White	Diffused	5600	3.3	50	1,350 @ 30	120	475-1329-1-ND	.93	7.75	62.00	2,000	465.00/M	LW E6SG-V2AB-5K8L-Z
	White	Diffused	5600	3.9	50	980 @ 30	120	475-2538-1-ND ***NEW!***	.90	7.50	60.00	2,000	450.00/M	LW E6SC-U2AA-5K8L-1-30-R18-Z
5	White	Diffused	5600	3.1	20	135 @ 10	120	475-2545-1-ND ***NEW!***	1.22	10.15	81.18	2,000	609.00/M	LW T773-P1S1-5K8L-0-10-R18-Z
6	White	Diffused	5600	3.1	20	108 @ 10	120	475-2539-1-ND ***NEW!***	1.18	9.84	78.72	3,000	590.00/M	LW M673-N2R2-5K8L-0-10-R18-Z
	White	Diffused	5600	3.6	20	315 @ 20	120	475-1157-1-ND	1.29	10.73	85.86	3,000	644.00/M	LW M67C-S1T2-5K8L-Z
	White	Diffused	5600	3.6	20	445 @ 20	120	475-1341-1-ND ***NEW!***	1.22	10.18	81.42	3,000	611.00/M	LW M67C-S1U2-5K8L-0-20-R18-Z
7	White	Diffused	5600	3.1	20	135 @ 10	120	475-2536-1-ND ***NEW!***	1.18	9.84	78.72	2,000	590.00/M	LW A673-P1S1-5K8L-0-10-R33-Z
	White	Diffused	5600	3.6	20	467 @ 20	120	475-2537-1-ND ***NEW!***	1.22	10.18	81.42	2,000	611.00/M	LW A67C-S2U2-5K8L-0-20-R33-Z
	White	Diffused	5600	3.6	20	392 @ 20	120	475-1165-1-ND	1.29	10.73	85.86	2,000	644.00/M	LW A67C-S2U1-5K8L-Z
8	White	Diffused	6200	3.6	20	315 @ 20	120	475-1173-1-ND	1.03	8.55	68.40	3,000	513.00/M	LW Y87C-S1T2-3K8L-Z
	White	Diffused	6200	3.6	20	420 @ 20	120	475-1264-1-ND	1.03	8.55	68.40	3,000	513.00/M	LW Y87C-T1U1-3K8L-0-20-R18-Z
	White	Diffused	8200	3.2	30	675 @ 20	120	475-1251-1-ND	1.06	8.85	70.80	3,000	531.00/M	LW Y8SG-U1V1-3K6L-1-Z
9B	White	Diffused	6200	3.1	20	98 @ 10	170/130	475-1276-1-ND	.24	2.00	16.00	5,000	120.00/M	LW L283-P2R1-3K8L-1-10-R18-Z
10	White	Diffused	5600	3.8	500	10,000 @ 350	120	475-1182-1-ND	6.30	52.50	420.00	800	2520.00	LW W5SG-GYHY-5K8L-Z
	White	Clear	6500	3.2	500	22,000 @ 350	120	475-1327-1-ND	7.26	60.50	484.00	800	2904.00	LUW W5SM-JYKY-4P7R-Z
	White	Clear	5600	3.2	500	19,000 @ 350	120	475-1331-1-ND	6.00	50.00	400.00	800	2400.00	LW W5SM-JXJY-5K8L-Z
	White	Clear	5600	3.6	1000	27,000 @ 700	120	475-1332-1-ND	8.10	67.50	540.00	800	3240.00	LW W5SN-JYKZ-5K8L-Z
	White	Clear	5600	3.2	1000	18,600 @ 350	170	475-2602-1-ND ***NEW!***	6.77	56.38	451.00	200	676.60	LW W5AM-JYKY-5K8L-Z
	White	Clear	5600	3.2	1000	17,900 @ 350	170	475-2603-1-ND ***NEW!***	7.95	66.23	529.80	200	794.80	LW W5AM-JZKX-6K7L-0-350-R
	White	Clear	5600	3.2	1000	21,000 @ 350	170	475-2604-1-ND ***NEW!***	9.50	79.15	633.20	200	949.80	LW W5AM-KXKY-6K7L-Z
	Warm White	Diffused	3250	3.8	100	8,000 @ 350	120	475-1396-1-ND ***NEW!***	2.40	20.00	160.00	800	960.00	LCW W5SG-FZHX-4F6G-0-350-R18-Z
	Warm White	Clear	5600	3.2	500	15,000 @ 350	120	475-1263-1-ND	5.10	42.50	340.00	800	2040.00	LW W5SM-HYJZ-5K8L-0-350-R18-Z
	Warm White	Clear	3000	3.2	500	12,500 @ 350	120	475-1307-1-ND	2.85	23.75	190.00	800	1140.00	LCW W5SM-GZJX-N3P5-Z
	Warm White	Clear	2700	3.2	500	12,500 @ 350	120	475-1308-1-ND	2.85	23.75	190.00	800	1140.00	LCW W5SM-GZJX-Q3R5-Z
	Warm White	Clear	4200	3.2	500	14,500 @ 350	120	475-1309-1-ND	2.85	23.75	190.00	800	1140.00	LCW W5SM-HXJY-H3K5-Z
	Warm White	Clear	3000	3.6	1000	20,000 @ 700	120	475-1310-1-ND	3.15	26.25	210.00	800	1260.00	LCW W5SN-HZKX-N3P5-Z
	Warm White	Clear	3000	3.2	1000	12,500 @ 350	170	475-2588-1-ND ***NEW!***	6.77	56.38	451.00	200	676.60	LCW W5AM-HZJY-4R9T-Z
	Warm White	Clear	2700	3.2	1000	13,800 @ 350	170	475-2589-1-ND ***NEW!***	7.95	66.23	529.80	200	794.80	LCW W5AM-HZJZ-4U9X-Z
	Warm White	Clear	3000	3.2	1000	13,200 @ 350	170	475-2590-1-ND ***NEW!***	7.95	66.23	529.80	200	794.80	LCW W5AM-JXJY-4R9T-Z
	Warm White	Clear	3500	3.2	1000	15,900 @ 350	170	475-2591-1-ND ***NEW!***	7.95	66.23	529.80	200	794.80	LCW W5AM-JXKX-4O9Q-Z
	Warm White	Clear	3000	3.2	1000	15,400 @ 350	170	475-2592-1-ND ***NEW!***	9.50	79.15	633.20	200	949.80	LCW W5AM-JYJZ-4R9T-Z
	Warm White	Clear	4500	3.2	1000	18,600 @ 350	170	475-2594-1-ND ***NEW!***	6.77	56.38	451.00	200	676.60	LCW W5AM-JYKY-4J8K-Z
	Warm White	Clear	2700	3.6	1000	20,000 @ 700	120	475-1311-1-ND	3.15	26.25	210.00	800	1260.00	LCW W5SN-HZKX-Q3R5-Z
	Warm White	Clear	4200	3.6	1000	23,000 @ 700	120	475-1312-1-ND	3.15	26.25	210.00	800	1260.00	LCW W5SN-JXKY-H3K5-Z
	Ultra White	Clear	6500	3.2	1000	22,900 @ 350	170	475-2597-1-ND ***NEW!***	7.95	66.23	529.80	200	794.80	LUW W5AM-KXKZ-4C8E-Z
	Ultra White	Clear	6500	3.2	1000	22,900 @ 350	170	475-2598-1-ND ***NEW!***	7.95	66.23	529.80	200	794.80	LUW W5AM-KXKZ-5F8G-Z
	Ultra White	Clear	6500	3.2	1000	22,900 @ 350	170	475-2599-1-ND ***NEW!***	7.95	66.23	529.80	200	794.80	LUW W5AM-KXKZ-5P7R-Z
	Ultra White	Clear	6500	3.2	1000	26,500 @ 350	170	475-2600-1-ND ***NEW!***	9.50	79.15	633.20	200	949.80	LUW W5AM-KYLX-6P7Q-Z
	Ultra White	Clear	6500	3.2	1000	26,500 @ 350	170	475-2601-1-ND ***NEW!***	9.50	79.15	633.20	200	949.80	LUW W5AM-KYLX-7P7R-Z
11	White	Diffused	5600	3.6	250	6,275 @ 140	120	475-1330-1-ND	2.54	21.13	169.00	1,000	1268.00	LW G6SP-CBEA-5K8L-1-Z
12	White	Diffused	5600	3.2	20	980 @ 20	120	475-1340-1-NDΔ	.85	7.10	56.80	3,000	426.00/M	LW P4SG-U2AA-5K8L-Z
13	White	Diffused	5600	3.4	30	5,600 @ 30	120	475-1261-1-ND	1.68	14.00	112.00	1,000	840.00	LWWWG6SG-BBCB-5K8L-0-30-R18-Z
16	White	Diffused	6500	20.8	1000	180,000 @ 700	130	475-1295-ND*▲	43.00	344.00	3117.50	—	—	LE UW E3B-PZQZ-4C8F
	White	Clear	5600	14.0	1000	80,000 @ 700	120	475-1296-ND*◊	24.30	194.40	1761.75	—	—	LE W E2A-LZNY-6K8L
	White	Clear	5600	20.8	1000	122,000 @ 700	120	475-1297-ND*▲	31.05	248.40	2251.13	—	—	LE W E3A-MZPX-6K8L
	Warm White	Clear	2700	14.0	1000	46,000 @ 700	120	475-1287-ND*◊	12.00	96.00	870.00	—	—	LE CW E2A-KZMX-Q3R5
	Warm White	Clear	3000	14.0	1000	46,000 @ 700	120	475-1288-ND*◊	12.00	96.00	870.00	—	—	LE CW E2A-LXMY-N3P5
	Warm White	Clear	4200	14.0	1000	46,000 @ 700	120	475-1289-ND*◊	24.30	194.40	1761.75	—	—	LE CW E2A-LYMZ-H3K5

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray Δ Reverse Mount ◊ 4 Chip ▲ 6 Chip

(Continued)

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Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Digi-Reel®

Dimensions in mm

Fig. 21 — SMD *NEW!*

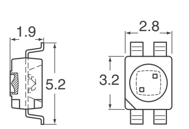

Multi TOPLED® RG

Fig. 22 — SMD *NEW!*

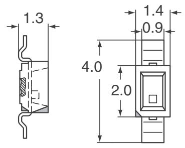

Hyper Mini TOPLED Santana®

Fig. 23 — Through-Hole *NEW!*

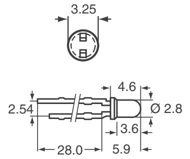

Hyper 3mm

Fig. 24 — Through-Hole *NEW!*

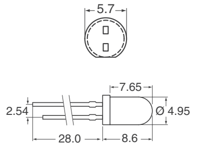

Hyper 5mm

Fig. 25 — SMD *NEW!*

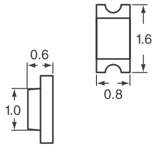

Hyper CHIPLED

Fig. 26 — SMD *NEW!*

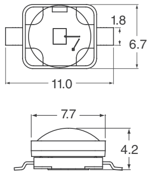

Diamond DRAGON®

Fig.	Emitted Color	Lens Color	Color Temp. (K)	Forward Voltage (V) (Typ.)	Forward Current (mA)	Typ. mcd @ Current (mA)	View Angle (°)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel§		Osram Part No.
									1	10	100	Qty.	Pricing	
16	Warm White Warm White Warm White	Clear Clear Clear	2700 3000 4200	20.8 20.8 20.8	1000 1000 1000	75,000 @ 700 75,000 @ 700 75,000 @ 700	120 120 120	475-1290-ND*▲ 475-1291-ND*▲ 475-1292-ND*▲	12.00 12.00 31.05	96.00 96.00 248.40	870.00 870.00 2251.13	— — —	— — —	LE CW E3A-LZNX-Q3R5 LE CW E3A-MXNY-N3P5 LE CW E3A-MYNZ-H3K5
17	White	Clear	5600	3.4	500	17,450 @ 500	120	475-1328-1-ND	4.95	41.25	330.00	—	—	LW C9SP-FOGA-58-Z
24	White	Clear	6500	3.6	20	5,085 @ 20	20	475-1420-ND‡ ***NEW!***	.64	5.12	46.40	—	—	LW 541C-AWDW-6K9L-0-20-BULK-I
25	White White	Diffused Diffused	7300 7300	2.90 2.90	20 20	98 @ 10 135 @ 10	150/155 150/155	475-2540-1-ND ***NEW!*** 475-2541-1-ND ***NEW!***	1.00 1.03	8.30 8.61	66.42 68.88	4,000 4,000	498.00/M 517.00/M	LW Q183-P2R1-24-1-10-R18 LW Q183-Q2R2-24-1-10-R18
26	White	Clear	5600	3.5	2000	57.8cd @ 1.4A	140	475-2587-1-ND ***NEW!***	14.42	120.13	961.00	200	1441.60	LW W5AP-LZMZ-5K8L-Z

§ For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk * Tray ∆ Reverse Mount ◊ 4 Chip ▲ 6 Chip

NEW! Dot Matrix Displays

RoHS COMPLIANT

Fig. 1

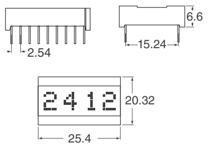

Fig. 2

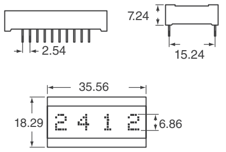

Fig. 3

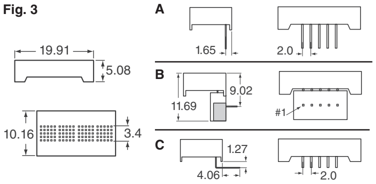

Fig. 4

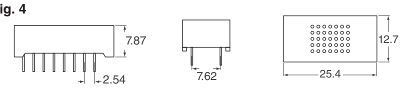

Fig. 5

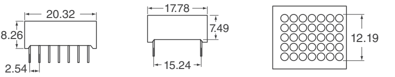

Fig. 6

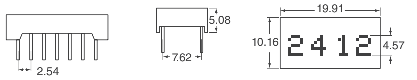

Fig. 7

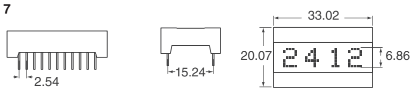

Fig. 8

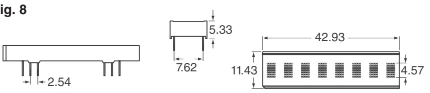

Fig. 9

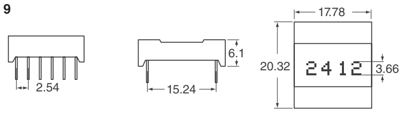

Fig.	Emitted Color	Peak Wavelength (nm)	No. of Character	Character Height (in.)	Luminous Intensity (mcd)	Digi-Key Part No.	Price Each			Osram Part No.
							1	10	100	
1	Green Red High Eff. Red	565 660 630	4 4 4	0.200 0.200 0.200	120 60 100	475-1352-ND 475-1362-ND 475-1357-ND	16.50 16.50 16.50	13.20 13.20 13.20	11.97 11.97 11.97	DLG2416 DLR2416 DLO2416
2	High Eff. Red Bright Green High Eff. Red Bright Green	630 565 630 565	4 4 4 4	0.270 0.270 0.450 0.450	90 90 90 90	475-1421-ND 475-1422-ND 475-1423-ND 475-1424-ND	17.00 17.00 28.00 28.00	13.60 13.60 22.40 22.40	12.33 12.33 20.30 20.30	PD3535 PD3537 PD4435 PD4437
3A 3B 3C	Super-Red Super-Red Green	630 630 565	4 4 4	0.134 0.134 0.134	1.8 1.8 1.8	475-1425-ND 475-1426-ND 475-1427-ND	18.00 18.20 18.00	14.40 14.56 14.40	13.05 13.20 13.05	SCDQ5542P SCDQ5542R SCDQ5543Q
4	Super-Red Green	635 565	1 1	0.43 0.43	1500 1500	475-1359-ND 475-1354-ND	11.20 11.20	8.96 8.96	8.12 8.12	DLO4135 DLG4137
5	Super-Red Green	635 565	1 1	0.68 0.68	1500 1500	475-1360-ND 475-1355-ND	12.00 12.00	9.60 9.60	8.70 8.70	DLO7135 DLG7137
6	Green Super-Red Red Yellow	565 635 660 585	4 4 4 4	0.180 0.180 0.180 0.180	75 60 50 60	475-2573-ND 475-2574-ND 475-2575-ND 475-2576-ND	18.00 18.00 18.00 18.00	14.40 14.40 14.40 14.40	13.05 13.05 13.05 13.05	SLG2016 SLO2016 SLR2016 SLY2016
7	High Eff. Red Red Green	630 660 565	4 4 4	0.270 0.270 0.270	120 60 140	475-1358-ND 475-1363-ND 475-1353-ND	17.00 17.00 17.00	13.60 13.60 13.60	12.33 12.33 12.33	DLO3416 DLR3416 DLG3416
8	Super-Red Green	630 565	8 8	0.180 0.180	75 75	475-2577-ND 475-2578-ND	30.88 30.88	24.71 24.71	22.39 22.39	SCE5782 SCE5783
9	Red High Eff. Red	660 630	4 4	0.145 0.145	50 60	475-1361-ND 475-1356-ND	16.00 16.00	12.80 12.80	11.60 11.60	DLR1414 DLO1414

LEDIL

LED Lenses

Features: • Lens material optical grade PC and PMMA with high UV and temperature resistance • High optical efficiency • Even color distribution over the whole beam angle

RoHS COMPLIANT

Fig. 1

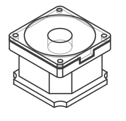

Fig. 2

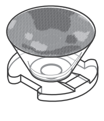

Fig. 3

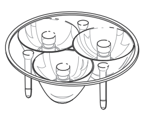

Fig. 4

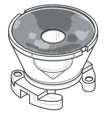

Fig.	Description	Lens Type	Beam Angle (°)	Digi-Key Part No.	Price Each	Ledil Part No.
1	OSS Dragon Square	Real Spot Smooth Spot Diffuser Medium Wide Oval	6 14 12 30 60 12 x 48	711-1000-ND 711-1001-ND 711-1002-ND 711-1003-ND 711-1004-ND 711-1005-ND	2.10 2.10 2.10 2.10 2.10 2.10	OSS-RS OSS-SS OSS-D OSS-M OSS-W OSS-O
2	Titanum Dragon	Smooth Spot Oval Wide	14 6 x 36 70	711-1006-ND 711-1007-ND 711-1008-ND	2.10 2.10 2.10	TITANUM-SS TITANUM-O TITANUM-W
3	Titanum-3 Dragon	Spot Medium Wide	14 30 60	711-1009-ND 711-1010-ND 711-1011-ND	3.90 3.90 3.90	TITANUM-3-S TITANUM-3-M TITANUM-3-W
4	Ledilstar-L Ostar®	Lighting Spot Lighting Spot Lighting Wide Lighting Wide	12 12 32 32	711-1012-ND 711-1017-ND 711-1013-ND 711-1018-ND	3.20 3.20 3.20 3.20	LEDILSTAR-L-S LEDILSTAR-L-S-2 LEDILSTAR-L-W LEDILSTAR-L-W-2
	Ledilstar-P Ostar	Projection Spot Projection Mixing SUB Lens Projection Wide	12 14 32	711-1014-ND 711-1015-ND 711-1016-ND	3.20 .80 3.20	LEDILSTAR-P-S LEDILSTAR-P-SUB LEDILSTAR-P-W

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

LEDs

Dimensions in mm

Fig. 1

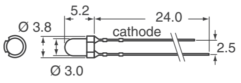

Fig. 2

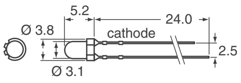

Fig. 3

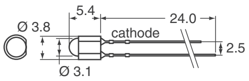

Fig. 4

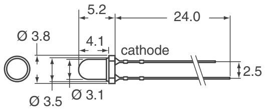

Fig. 5

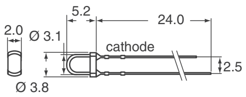

Fig. 6

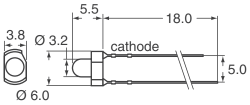

Fig. 7

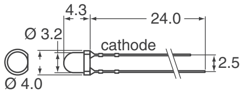

Fig. 8

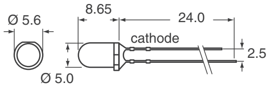

Fig.	Package Type	Emitted Color	Lens	Wave-Length (nm)	Forward Voltage (Typ.) (V)	Forward Current (Typ.) (mA)	Luminous Intensity		View Angle	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel ▲		Rohm Part No.
							mcd	@ IF (mA)			1	25	100	Qty.	Pricing	
1	3.0mm	Green	Water Clear	563	2.2	25	100	20	25°	511-1191-ND‡	.53	6.53	21.25	—	—	SLA-370MT3F
		Red	Water Clear	660	1.75	50	100	20	25°	511-1190-ND‡	.53	6.53	21.25	—	—	SLA-370LT3F
2	3.1mm	Green	Water Clear	563	2.2	25	100	20	40°	511-1189-ND‡	.61	7.48	24.32	—	—	SLA-360MT3F
		Red	Water Clear	660	1.75	50	68	20	40°	511-1188-ND‡	.61	7.48	24.32	—	—	SLA-360LT3F
3	3.1mm	Red	Diffused	630	1.9	50	350	20	40°	511-1210-ND‡	.80	9.80	31.87	—	—	SLI-343UR3F
		Red	Transparent	630	1.9	50	450	20	40°	511-1211-ND‡	.80	9.80	31.87	—	—	SLI-343URC3F
		Orange	Diffused	611	1.9	50	350	20	40°	511-1209-ND‡	.80	9.80	31.87	—	—	SLI-343DU3F
		Orange	Transparent	611	1.9	50	500	20	40°	511-1208-ND‡	.80	9.80	31.87	—	—	SLI-343DC3F
		Yellow	Diffused	591	1.9	50	300	20	40°	511-1213-ND‡	.80	9.80	31.87	—	—	SLI-343YY3F
		Yellow	Transparent	591	1.9	50	350	20	40°	511-1212-ND‡	.80	9.80	31.87	—	—	SLI-343YC3F
		Red	Diffused	650	2	20	16	10	40°	511-1256-1-ND§	.33	3.36	11.32	2,000	78.00/M	SLR-343VRT32
		Red	Transparent	650	2	20	25	10	40°	511-1255-1-ND§	.33	3.36	11.32	2,000	78.00/M	SLR-343VCT32
		Yellow	Diffused	585	2.1	20	10	10	40°	511-1258-1-ND§	.33	3.36	11.32	2,000	78.00/M	SLR-343YYT32
		Yellow	Transparent	585	2.1	20	16	10	40°	511-1257-1-ND§	.33	3.36	11.32	2,000	78.00/M	SLR-343YCT32
		Green	Diffused	563	2.1	25	16	10	40°	511-1254-1-ND§	.33	3.36	11.32	2,000	78.00/M	SLR-343MGT32
		Green	Transparent	563	2.1	25	25	10	40°	511-1253-1-ND§	.33	3.36	11.32	2,000	78.00/M	SLR-343MCT32
		Blue	Tansparent	468	3.2	25	470	20	50°	511-1611-ND‡ ***NEW!***	.81	9.92	33.64	—	—	SLR343BC7T3F
		Green	Water Clear	518	3.8	20	2,000	20	40°	511-1367-ND‡	1.92	28.33	96.60	—	—	SLR343ECT3F
		Green	Water Clear	523	3.5	30	1,500	20	40°	511-1268-ND‡	2.05	30.28	102.00	—	—	SLR343EBT3F
		Green	Water Clear	468	3.5	30	1,500	20	40°	511-1512-ND‡	1.89	27.03	93.51	—	—	SLR343EC4T3F
		Blue	Water Clear	468	3.5	20	600	20	40°	511-1368-ND‡	2.16	31.87	108.68	—	—	SLR343BCT3F
		Blue	Water Clear	468	3.5	30	200	20	40°	511-1267-ND‡	2.05	30.28	102.00	—	—	SLR343BBT3F
		Blue	Water Clear	468	3.5	30	200	20	40°	511-1511-ND‡	1.89	27.03	93.51	—	—	SLR343BC4T3F
		White	Transparent	—	3.2	25	680	20	40°	511-1612-ND‡ ***NEW!***	.81	9.92	33.64	—	—	SLR343WBC7T3
		Red	White Diffused	650	2	16	10	40	40°	511-1250-ND‡	.27	3.10	9.00	—	—	SLR-342VR3F
4	3.1mm	Red	Transparent	650	2	20	25	10	40°	511-1249-ND‡	.36	3.62	12.20	—	—	SLR-342VC3F
		Orange	Diffused	610	2	20	16	10	40°	511-1246-ND‡	.36	3.62	12.20	—	—	SLR-342DU3F
		Orange	Transparent	610	2	20	25	10	40°	511-1245-ND‡	.36	3.62	12.20	—	—	SLR-342DC3F
		Yellow	Diffused	585	2.1	20	10	10	40°	511-1252-ND‡	.31	3.11	10.45	—	—	SLR-342YY3F
		Yellow	Transparent	585	2.1	20	16	10	40°	511-1251-ND‡	.36	3.62	12.20	—	—	SLR-342YC3F
		Green	Diffused	563	2.1	25	16	10	40°	511-1248-ND‡	.31	3.11	10.45	—	—	SLR-342MG3F
		Green	Transparent	563	2.1	25	25	10	40°	511-1247-ND‡	.36	3.62	12.20	—	—	SLR-342MC3F
5	3.1 x 2.0mm	Red	Diffused	650	2	20	10	10	55°	511-1228-ND‡	.31	3.80	11.43	—	—	SLR-322VR3F
		Red	Transparent	650	2	20	16	10	35°	511-1227-ND‡	.31	3.80	11.43	—	—	SLR-322VC3F
		Orange	Diffused	610	2	20	6.3	10	55°	511-1224-ND‡	.31	3.80	11.43	—	—	SLR-322DU3F
		Orange	Transparent	610	2	20	16	10	35°	511-1223-ND‡	.31	3.80	11.43	—	—	SLR-322DC3F
		Yellow	Diffused	585	2.1	20	10	10	55°	511-1230-ND‡	.31	3.80	11.43	—	—	SLR-322YY3F
		Yellow	Transparent	585	2.1	20	10	10	35°	511-1229-ND‡	.31	3.80	11.43	—	—	SLR-322YC3F
		Green	Diffused	563	2.1	25	10	10	55°	511-1226-ND‡	.31	3.80	11.43	—	—	SLR-322MG3F
		Green	Transparent	563	2.1	25	25	10	35°	511-1225-ND‡	.31	3.80	11.43	—	—	SLR-322MC3F
6	3.2mm	Red	Diffused	630	1.85	20	100	20	40°	511-1205-1-ND§	.76	9.36	30.46	2,000	227.00/M	SLI-325URT31W
		Red	Transparent	630	1.85	20	100	20	40°	511-1204-1-ND§	.76	9.36	30.46	2,000	227.00/M	SLI-325URCT31W
		Orange	Diffused	611	1.9	20	100	20	40°	511-1203-1-ND§	.76	9.36	30.46	2,000	227.00/M	SLI-325DUT31W
		Orange	Transparent	611	1.9	20	100	20	40°	511-1202-1-ND§	.76	9.36	30.46	2,000	227.00/M	SLI-325DCT31W
		Yellow	Diffused	590	1.9	20	100	20	40°	511-1207-1-ND§	.76	9.36	30.46	2,000	227.00/M	SLI-325YYT31W
		Yellow	Transparent	590	1.9	20	100	20	40°	511-1206-1-ND§	.76	9.36	30.46	2,000	227.00/M	SLI-325YCT31W
		Red	Diffused	650	2	20	10	10	40°	511-1234-1-ND§	.41	5.00	15.07	2,000	109.00/M	SLR-325VRT31
		Red	Transparent	650	2	20	16	10	40°	511-1233-1-ND§	.41	5.00	15.07	2,000	109.00/M	SLR-325VCT31
		Yellow	Diffused	585	2.1	20	6.3	10	40°	511-1236-1-ND§	.41	5.00	15.07	2,000	109.00/M	SLR-325YYT31
		Yellow	Transparent	585	2.1	20	16	10	40°	511-1235-1-ND§	.41	5.00	15.07	2,000	109.00/M	SLR-325YCT31
		Green	Diffused	563	2.1	25	16	10	40°	511-1232-1-ND§	.41	5.00	15.07	2,000	109.00/M	SLR-325MGT31
		Green	Transparent	563	2.1	25	25	10	40°	511-1231-1-ND§	.41	5.00	15.07	2,000	109.00/M	SLR-325MCT31
7	3.2mm	Red	Diffused	650	2	20	10	10	85°	511-1242-ND‡	.36	3.62	12.20	—	—	SLR-332VR3F
		Red	Transparent	650	2	20	10	10	75°	511-1241-ND‡	.36	3.62	12.20	—	—	SLR-332VC3F
		Orange	Diffused	610	2	20	10	10	85°	511-1238-ND‡	.36	3.62	12.20	—	—	SLR-332DU3F
		Orange	Transparent	610	2	20	16	10	75°	511-1237-ND‡	.36	3.62	12.20	—	—	SLR-332DC3F
		Yellow	Diffused	585	2.1	20	6.3	10	85°	511-1244-ND‡	.36	3.62	12.20	—	—	SLR-332YY3F
		Yellow	Transparent	585	2.1	20	10	10	75°	511-1243-ND‡	.36	3.62	12.20	—	—	SLR-332YC3F
		Green	Diffused	563	2.1	25	16	10	85°	511-1240-ND‡	.36	3.62	12.20	—	—	SLR-332MG3F
		Green	Transparent	563	2.1	25	16	10	75°	511-1239-ND‡	.36	3.62	12.20	—	—	SLR-332MC3F
8	5mm	Red	Water Clear	660	1.75	50	220	20	25°	511-1194-ND‡	.61	7.48	24.32	—	—	SLA-570LT3F
		Green	Water Clear	563	2.2	25	185	20	25°	511-1195-ND‡	.37	4.49	13.51	—	—	SLA-570MT3F
		Red	Water Clear	630	1.9	50	3,000	20	25°	511-1218-ND‡	.50	6.04	18.18	—	—	SLI-570UT3F
		Orange	Water Clear	611	1.9	50	3,000	20	25°	511-1217-ND‡	.54	6.64	20.00	—	—	SLI-570DT3F
		Yellow	Water Clear	591	1.9	50	2,500	20	25°	511-1219-ND‡	.54	6.64	20.00	—	—	SLI-570YT3F

‡ Bulk § For Tape and Box part number, change 1-ND to 3-ND; Tape and Box pricing shown. ▲ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Dimensions in mm

Fig. 9

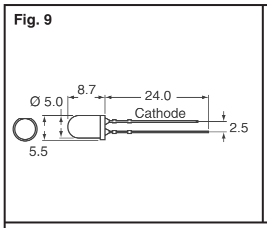

Fig. 10

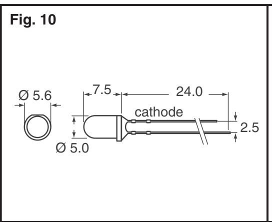

Fig. 11

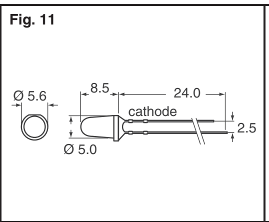

Fig. 12

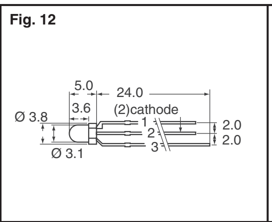

Fig. 13

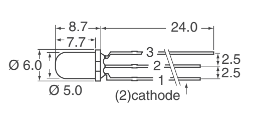

Fig. 14

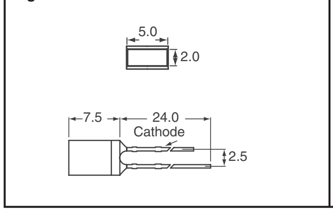

Fig. 15

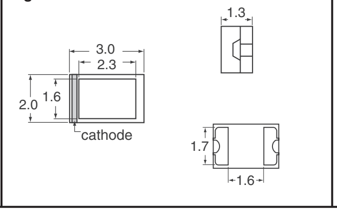

Fig. 16

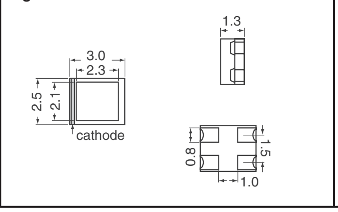

Fig. 17

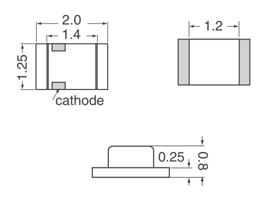

Fig.	Package Type	Emitted Color	Lens	Wave-Length (nm)	Forward Voltage (Typ.) (V)	Forward Current (Typ.) (mA)	Luminous Intensity mcd @ IF (mA)		View Angle	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel ▲		Rohm Part No.
											1	25	100	Qty.	Pricing	
9	5mm	Red	Diffused	650	2	20	10	10	40°	511-1264-ND‡	.33	3.36	11.32	—	—	SLR-56VR3F
		Red	Transparent	650	2	20	25	10	35°	511-1263-ND‡	.34	4.14	12.47	—	—	SLR-56VC3F
		Orange	Diffused	610	2	20	10	10	40°	511-1260-ND‡	.34	4.14	12.47	—	—	SLR-56DU3F
		Orange	Transparent	610	2	20	25	10	35°	511-1259-ND‡	.34	4.14	12.47	—	—	SLR-56DC3F
		Yellow	Diffused	585	2.1	20	10	10	40°	511-1266-ND‡	.33	3.36	11.32	—	—	SLR-56YY3F
		Yellow	Transparent	585	2.1	20	25	10	35°	511-1265-ND‡	.34	4.14	12.47	—	—	SLR-56YC3F
		Green	Diffused	563	2.1	25	16	10	40°	511-1262-ND‡	.33	3.36	11.32	—	—	SLR-56MG3F
		Green	Transparent	563	2.1	25	40	10	35°	511-1261-ND‡	.34	4.14	12.47	—	—	SLR-56MC3F
10	5mm	Blue	Water Clear	468	3.5	30	150	20	40°	511-1513-ND‡	1.66	23.00	80.50	—	—	SLA560BC4T3F
		Blue	Transparent	468	3.2	25	680	20	40°	511-1609-ND‡ ***NEW!***	.76	9.66	31.40	—	—	SLA560BC7T3F
		Blue	Transparent	468	3.2	30	2,200	20	40°	511-1610-ND‡ ***NEW!***	1.35	18.11	62.10	—	—	SLA560BD2T3F
		Green	Water Clear	523	3.5	30	680	20	40°	511-1199-ND‡	2.05	30.28	102.00	—	—	SLA560EBT3F
		Green	Water Clear	523	3.5	30	680	20	40°	511-1514-ND‡	1.66	23.00	80.50	—	—	SLA560EC4T3F
		Red	Water Clear	660	1.75	50	100	20	40°	511-1192-ND‡	.50	7.25	21.82	—	—	SLA-560LT3F
		Green	Water Clear	563	2.2	25	100	20	40°	511-1193-ND‡	.46	5.61	16.89	—	—	SLA-560MT3F
		Red	Water Clear	630	1.9	50	1,000	20	40°	511-1215-ND‡	.50	6.12	18.44	—	—	SLI-560UT3F
		Orange	Water Clear	611	1.9	50	1,000	20	40°	511-1214-ND‡	.54	6.64	20.00	—	—	SLI-560DT3F
		Yellow	Water Clear	591	1.9	50	1,000	20	40°	511-1216-ND‡	.54	6.64	20.00	—	—	SLI-560YT3F
11	5mm	Blue	Water Clear	468	3.5	30	1,000	20	16°	511-1200-ND‡	2.05	30.28	102.00	—	—	SLA580BBT3F
		Blue	Water Clear	468	3.5	30	1,000	20	16°	511-1515-ND‡	1.66	23.00	80.50	—	—	SLA580BC4T3F
		Blue	Water Clear	468	3.5	20	2,500	20	12°	511-1370-ND‡	2.13	31.46	107.27	—	—	SLA580BCT3F
		Green	Water Clear	523	3.5	30	4,500	20	16°	511-1516-ND‡	1.66	23.00	80.50	—	—	SLA580EC4T3F
		Green	Water Clear	518	3.8	20	8,000	20	12°	511-1369-ND‡	2.40	35.41	120.75	—	—	SLA580ECT3F
		Red	Water Clear	660	1.75	50	470	20	10°	511-1196-ND‡	.50	7.25	21.82	—	—	SLA-580LT3F
		Green	Water Clear	563	2.2	25	470	20	10°	511-1197-ND‡	.41	5.00	15.07	—	—	SLA-580MT3F
		Red	Water Clear	630	1.9	50	5,000	20	10°	511-1221-ND‡	.54	6.64	20.00	—	—	SLI-580UT3F
		Orange	Water Clear	611	1.9	50	5,000	20	10°	511-1220-ND‡	.54	6.64	20.00	—	—	SLI-580DT3F
		Yellow	Water Clear	591	1.9	50	5,000	20	10°	511-1222-ND‡	.54	6.64	20.00	—	—	SLI-580YT3F
12	3.1mm	Red/Green	Milky White	650/563	2/2.1	20/25	6.3/10	10	60°	511-1334-ND‡	.61	7.48	24.32	—	—	SPR-39MVWF
13	5mm	Red/Green	Milky White	650/563	2/2.1	20/25	6.3/10	10	40°	511-1335-ND‡	.82	10.09	32.82	—	—	SPR-54MVWF
14	2.0 x 5.0mm	Orange	Diffused	610	2.0	20	1.0	10	130°	511-1605-ND‡	.38	4.57	13.77	—	—	SLB-25DU3F
		Green	Diffused	563	2.1	25	1.0	10	130°	511-1606-ND‡	.38	4.57	13.77	—	—	SLB-25MG3F
		Red	Diffused	650	2.0	20	1.0	10	130°	511-1607-ND‡	.38	4.57	13.77	—	—	SLB-25VR3F
15	3 x 2mm	Blue	Water Clear	428	3.8	20	9	20	110°	511-1328-1-ND	1.09	15.00	49.07	2,500	389.00/M	SML010BATT86
		Red	Water Clear	660	1.75	30	16	20	110°	511-1271-1-ND	.38	4.66	14.03	2,500	101.00/M	SML-010LTT86
		Red	Water Clear	650	2	30	6.3	20	110°	511-1274-1-ND	.37	4.49	13.51	2,500	98.00/M	SML-010VTT86
		Orange	Water Clear	610	2	25	10	20	110°	511-1269-1-ND	.38	4.66	14.03	2,500	101.00/M	SML-010DTT86
		Yellow	Water Clear	585	2.1	25	6.3	20	110°	511-1275-1-ND	.37	4.49	13.51	2,500	98.00/M	SML-010YTT86
		Green	Water Clear	570	2.2	25	25	20	110°	511-1272-1-ND	.31	3.80	11.43	2,500	83.00/M	SML-010MTT86
		Green	Water Clear	560	2.2	25	10	20	110°	511-1270-1-ND	.38	4.66	14.03	2,500	101.00/M	SML-010FTT86
		Green	Water Clear	555	2.2	25	6.3	20	110°	511-1273-1-ND	.38	4.66	14.03	2,500	101.00/M	SML-010PTT86
		Blue	Water Clear	468	3.5	20	25	20	110°	511-1329-1-ND	1.81	22.72	81.78	—	—	SML011BBTT86
		Blue	Water Clear	468	3.5	20	25	20	110°	511-1507-1-ND	1.88	23.61	84.96	2,500	644.00/M	SML012BC4TT86
		Green	Water Clear	523	3.5	20	90	20	110°	511-1330-1-ND	2.05	30.28	102.00	—	—	SML011EBTT86
		Green	Water Clear	528	3.5	20	90	20	110°	511-1508-1-ND	2.21	27.74	99.83	2,500	757.00/M	SML012EC4TT86
		Red	Water Clear	630	2	30	63	20	110°	511-1276-1-ND	.53	6.53	21.25	2,500	158.00/M	SML-011UTT86
		Red	Water Clear	630	2	30	100	20	110°	511-1278-1-ND	.57	7.04	22.90	2,500	171.00/M	SML-012UTT86
		Orange	Water Clear	611	2	30	100	20	110°	511-1277-1-ND	.57	7.04	22.90	2,500	171.00/M	SML-012DTT86
		Yellow	Water Clear	590	2	30	100	20	110°	511-1279-1-ND	.57	7.04	22.90	2,500	171.00/M	SML-012YTT86
		White	White Diffused	—	3.2	20	900	20	120°	511-1603-1-ND	1.78	24.73	86.54	2,500	692.00/M	SML013WBDW1S
16	3 x 2.5mm	Red/Green	Water Clear	650/570	2/2.2	30/25	6.3/20	20	110°	511-1281-1-ND	.53	6.53	21.25	2,500	158.00/M	SML-020MVTT86
		Red/Green	Water Clear	660/570	1.75/2.2	30/25	16/20	20	110°	511-1280-1-ND	.53	6.53	21.25	2,500	158.00/M	SML-020MLTT86
		Yellow/Green	Water Clear	585/570	2.1/2.2	30/25	6.3/20	20	110°	511-1282-1-ND	.53	6.53	21.25	2,500	158.00/M	SML-020MYTT87
		Orange/Green	Water Clear	610/555	2/2.2	30/25	10/4	20	110°	511-1283-1-ND	.57	7.04	22.90	2,500	171.00/M	SML-020PDTT87
		Blue/Red	Transparent	—	3.2/2.0	30	140/220	20	120°	511-1613-1-ND ***NEW!***	1.66	23.00	80.50	2,500	644.00/M	SML022BUTT86R
17	0805	Bright Red	Water Clear	660	1.75	30	10	20	140°	511-1286-1-ND	.30	3.71	12.49	3,000	81.00/M	SML-210LTT86
		Red	Water Clear	650	2	25	4	20	140°	511-1289-1-ND	.31	3.11	10.45	3,000	68.00/M	SML-210VTT86
		Orange	Water Clear	610	2	25	6.3	20	140°	511-1284-1-ND	.30	3.71	12.49	3,000	81.00/M	SML-210DTT86
		Yellow	Water Clear	585	2.1	25	6.3	20	140°	511-1290-1-ND	.30	3.71	12.49	3,000	81.00/M	SML-210YTT86
		Green	Water Clear	570	2.2	25	16	20	140°	511-1287-1-ND	.31	3.11	10.45	3,000	68.00/M	SML-210MTT86
		Green	Water Clear	560	2.2	25	4	20	140°	511-1285-1-ND	.30	3.71	12.49	3,000	81.00/M	SML-210FTT86
		Green	Water Clear	555	2.2	25	4	20	140°	511-1288-1-ND	.30	3.71	12.49	3,000	81.00/M	SML-210PTT86
		Red	Water Clear	630	1.8	10	2.5	2	140°	511-1292-1-ND	.46	5.61	16.89	3,000	122.00/M	SML-211UTT86
		Orange	Water Clear	611	1.8	10	2.5	2	140°	511-1291-1-ND	.46	5.61	16.89	3,000	122.00/M	SML-211DTT86
		Yellow	Water Clear	590	1.8	10	1.6	2	140°	511-1293-1-ND	.46	5.61	16.89	3,000	122.00/M	SML-211YTT86
		Red	Water Clear	639	2.05	30	63	20	140°	511-1295-1-ND	.50	7.25	21.82	3,000	148.00/M	SML-212VTT86
		Orange	Water Clear	611	2.05	30	63	20	140°	511-1294-1-ND	.50	7.25	21.82	3,000	148.00/M	SML-212DTT86
		Yellow	Water Clear	591	2.05	30	63	20	140°	511-1296-1-ND	.50	7.25	21.82	3,000	148.00/M	SML-212YTT86

‡ Bulk   § For Tape and Box part number, change 1-ND to 3-ND; Tape and Box pricing shown.   ▲ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Dimensions in mm

Fig. 18

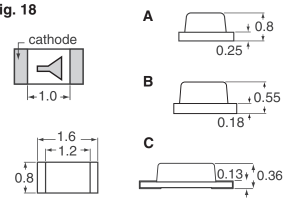

Fig. 19

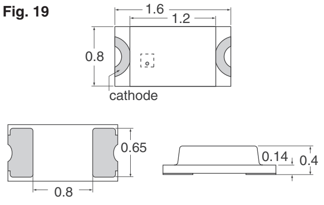

Fig. 20

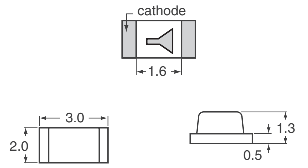

Fig. 21

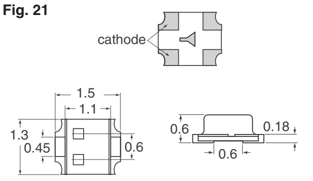

Fig. 22

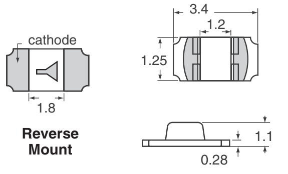

Fig. 23

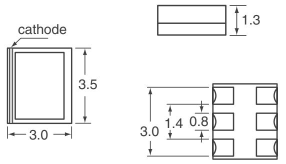

Fig. 24

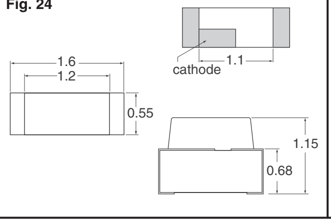

Fig. 25

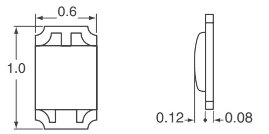

Fig.	Package Type	Emitted Color	Lens	Wave-Length (nm)	Forward Voltage (Typ.) (V)	Forward Current (Typ.) (mA)	Luminous Intensity mcd @ IF (mA)		View Angle	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel ▲		Rohm Part No.
											1	25	100	Qty.	Pricing	
18A	0603	Bright Red	Water Clear	660	1.75	25	10	20	140°	511-1298-1-ND	.30	3.02	10.16	3,000	66.00/M	SML-310LTT86
		Red	Water Clear	650	2	20	4	20	140°	511-1301-1-ND	.30	3.02	10.16	3,000	66.00/M	SML-310VTT86
		Orange	Water Clear	610	2	20	6.3	20	140°	511-1297-1-ND	.30	3.02	10.16	3,000	66.00/M	SML-310DTT86
		Yellow	Water Clear	585	2.1	20	6.3	20	140°	511-1302-1-ND	.30	3.02	10.16	3,000	66.00/M	SML-310YTT86
		Green	Water Clear	570	2.2	20	16	20	140°	511-1299-1-ND	.23	2.70	7.84	3,000	54.00/M	SML-310MTT86
		Green	Water Clear	555	2.2	20	4	20	140°	511-1300-1-ND	.30	3.02	10.16	3,000	66.00/M	SML-310PTT86
		Blue	Water Clear	428	3.8	20	3.6	20	140°	511-1331-1-ND	1.21	16.69	54.59	3,000	433.00/M	SML-310BATT86
		Blue	Water Clear	468	3.5	20	14	20	140°	511-1509-1-ND	2.21	27.74	99.83	3,000	757.00/M	SML-312BC4TT86
		Green	Water Clear	523	3.5	20	90	20	140°	511-1510-1-ND	2.21	27.74	99.83	3,000	757.00/M	SML-312EC4TT86
		Yellow	Water Clear	590	1.8	10	1.6	2	140°	511-1305-1-ND	.37	4.49	13.51	3,000	98.00/M	SML-311YTT86
		Red	Water Clear	630	1.8	10	2.5	2	140°	511-1304-1-ND	.37	4.49	13.51	3,000	98.00/M	SML-311UTT86
		Orange	Water Clear	611	1.8	10	2.5	2	140°	511-1303-1-ND	.37	4.49	13.51	3,000	98.00/M	SML-311DTT86
		Green	Water Clear	525	3.8	20	200	20	140°	511-1371-1-ND	2.28	33.64	114.71	3,000	922.29/M	SML312ECTT86
		Blue	Water Clear	468	3.5	20	63	20	140°	511-1372-1-ND	2.28	33.64	114.71	3,000	922.29/M	SML312BCTT86
18B	0603	Green	Milky White	570	2.2	20	16	20	140°	511-1308-1-ND	.22	2.60	7.55	3,000	52.00/M	SML-510MWT86
		Red	Water Clear	630	1.9	25	40	20	140°	511-1310-1-ND	.41	5.00	15.07	3,000	109.00/M	SML-511UWT86
		Orange	White Diffused	605	2.1	20	100	20	160°	511-1577-1-ND	.30	3.30	10.21	3,000	69.00/M	SML-D12D8WT86
		Orange	Water Clear	611	1.9	25	40	20	140°	511-1309-1-ND	.41	5.00	15.07	3,000	109.00/M	SML-511DWT86
		Yellow	Water Clear	590	1.9	25	40	20	140°	511-1311-1-ND	.41	5.00	15.07	3,000	109.00/M	SML-511WWT86
		Green	White Diffused	560	2.2	20	6.3	20	160°	511-1579-1-ND	.30	3.30	10.21	3,000	69.00/M	SML-D12P8WT86
		Green	White Diffused	570	2.1	25	40	20	140°	511-1313-1-ND	.50	7.25	21.82	3,000	148.00/M	SML-512MWT86
		Yellow/Green	White Diffused	572	2.2	20	25	20	160°	511-1578-1-ND	.30	3.30	10.21	3,000	69.00/M	SML-D12M8WT86
		Red	White Diffused	620	2.0	20	63	20	160°	511-1580-1-ND	.30	3.30	10.21	3,000	69.00/M	SML-D12U8WT86
		Red	White Diffused	630	2.0	20	40	20	160°	511-1581-1-ND	.30	3.30	10.21	3,000	69.00/M	SML-D12V8WT86
		Red	Water Clear	630	2	30	63	20	140°	511-1314-1-ND	.50	7.25	21.82	3,000	148.00/M	SML-512UWT86
		Orange	Water Clear	611	2	30	63	20	140°	511-1312-1-ND	.50	7.25	21.82	3,000	148.00/M	SML-512DWT86
		Yellow	White Diffused	590	2.1	20	63	20	160°	511-1582-1-ND	.30	3.30	10.21	3,000	69.00/M	SML-D12Y8WT86
		Yellow	Water Clear	590	2	30	63	20	140°	511-1315-1-ND	.50	6.12	18.44	3,000	133.00/M	SML-512WWT86
18C	0603	Orange	White Diffused	605	2.2	20	100	20	160°	511-1583-1-ND	.30	3.30	10.21	5,000	68.00/M	SML-E12D8WT86
		Yellow/Green	White Diffused	572	2.2	20	25	20	160°	511-1584-1-ND	.30	3.30	10.21	5,000	68.00/M	SML-E12M8WT86
		Green	White Diffused	560	2.2	20	6.3	20	160°	511-1585-1-ND	.34	3.80	11.64	5,000	78.00/M	SML-E12P8WT86
		Red	White Diffused	620	2.2	20	63	20	160°	511-1586-1-ND	.34	3.80	11.64	5,000	78.00/M	SML-E12U8WT86
		Red	White Diffused	630	2.2	20	40	20	160°	511-1587-1-ND	.34	3.80	11.64	5,000	78.00/M	SML-E12V8WT86
		Yellow	White Diffused	590	2.2	20	63	20	160°	511-1588-1-ND	.34	3.80	11.64	5,000	78.00/M	SML-E12Y8WT86
		Blue	Clear	470	2.9	20	22	5	160°	511-1589-1-ND	.59	7.19	23.00	5,000	167.00/M	SML-E12BC7TT86
		White	White Diffused	—	2.9	20	71	5	160°/140°	511-1602-1-ND	.69	8.28	27.60	5,000	200.00/M	SMLE12WBC7W1A
19	0603	Green	White Diffused	570	2.2	25	16	20	150°	511-1306-1-ND	.30	3.02	10.16	5,000	66.00/M	SML-410MWT86
		Green	Diffused	570	2.1	25	40	20	150°	511-1307-1-ND	.41	5.00	15.07	5,000	102.00/M	SML-412MWT86
20	3 x 2mm	Green	Water Clear	525	3.8	20	360	20	110°	511-1373-1-ND	2.40	35.41	120.75	2,500	970.84/M	SML012ECTT86
21	1.3 x 1.5mm	Red/Green	Milky White	630/570	1.9/2.2	20/25	40/16	20	150°	511-1317-1-ND	.95	11.69	38.01	4,000	271.00/M	SML-521MUWT86
		Orange/Green	Milky White	611/570	1.9/2.2	20/25	40/16	20	150°	511-1316-1-ND	.86	10.53	34.23	4,000	244.00/M	SML-521MDWT86
		Yellow/Green	Milky White	590/570	1.9/2.2	20/25	40/16	20	150°	511-1318-1-ND	.95	11.69	38.01	4,000	271.00/M	SML-521MYWT86
22	3.4 x 1.25mm Reverse Mount	Green	Water Clear	570	2.2	25	16	20	140°	511-1319-1-ND	.50	6.12	18.44	3,000	133.00/M	SML-810MTT86
		Red	Water Clear	630	1.95	25	22.4	10	140°	511-1321-1-ND	.50	7.25	21.82	3,000	148.00/M	SML-811UTT86
		Orange	Water Clear	611	1.95	25	22.4	10	140°	511-1320-1-ND	.50	7.25	21.82	3,000	148.00/M	SML-811DTT86
		Yellow	Water Clear	590	1.95	25	18	10	140°	511-1322-1-ND	.50	7.25	21.82	3,000	148.00/M	SML-811WTT86
		Green	Clear	570	2.1	25	40	20	140°	511-1323-1-ND	.69	8.42	27.39	3,000	204.00/M	SML-812MTT86
23	3.5 x 3.0mm	Blue/Green/Red	Water Clear	470/530/630	3.2/3.3/2.2	20/20/30	125/500/350	20	120°	511-1608-1-ND	3.45	53.19	187.45	2,000	1581.00/M	SML032RGB1T1
24	1.6 x 1.15mm	Orange	Water Clear	611	1.9	25	63	20	130°	511-1324-1-ND	.54	6.64	20.00	3,000	135.00/M	SML-A12DTT86
		Red	Water Clear	630	1.9	25	63	20	130°	511-1326-1-ND	.54	6.64	20.00	3,000	135.00/M	SML-A12UTT86
		Yellow	Water Clear	590	1.9	25	63	20	130°	511-1327-1-ND	.54	6.64	20.00	3,000	135.00/M	SML-A12WTT86
		Green	Water Clear	570	2.1	25	40	20	130°	511-1325-1-ND	.54	6.64	20.00	3,000	135.00/M	SML-A12MTT86
		Blue	Transparent	470	3.2	20	140	20	140°	511-1614-1-ND ***NEW!***	1.35	18.11	62.10	3,000	483.00/M	SMLA13BDTT86
		White	White Diffused	—	3.1	20	170	10	140°/160°	511-1604-1-ND	1.40	19.32	66.24	3,000	515.00/M	SMLA13WBDW13
25	0402	Orange	Water Clear	605	2.1	20	100	20	140°	511-1590-1-ND	.37	4.27	13.41	10,000	88.00/M	SML-P12DTT86
		Yellow/Green	Water Clear	572	2.2	20	35	20	140°	511-1591-1-ND	.37	4.27	13.41	10,000	88.00/M	SML-P12MTT86
		Green	Water Clear	560	2.2	20	13	20	140°	511-1592-1-ND	.37	4.27	13.41	10,000	88.00/M	SML-P12PTT86
		Red	Water Clear	620	2.0	20	85	20	140°	511-1593-1-ND	.37	4.27	13.41	10,000	88.00/M	SML-P12UTT86
		Red	Water Clear	630	2.0	20	60	20	140°	511-1594-1-ND	.37	4.27	13.41	10,000	88.00/M	SML-P12VTT86
		Yellow	Water Clear	590	2.1	20	130	20	140°	511-1595-1-ND	.37	4.27	13.41	10,000	88.00/M	SML-P12YTT86
		Blue	Transparent	465	2.9	20	17	5	140°	511-1615-1-ND ***NEW!***	.69	8.28	27.60	10,000	193.00/M	SMLP12BC7TT86
		White	Transparent	—	2.9	20	71	5	145°	511-1616-1-ND ***NEW!***	.69	8.28	27.60	10,000	193.00/M	SMLP12WBC7W1

‡ Bulk § For Tape and Box part number, change 1-ND to 3-ND; Tape and Box pricing shown. ▲ For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

LED Displays

Dimensions in mm

Fig. 1

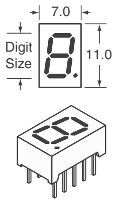

Fig. 2

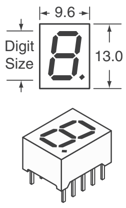

Fig. 3

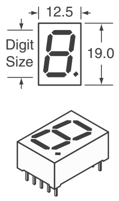

Fig. 4

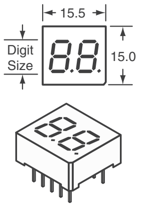

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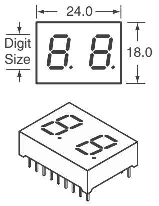

Fig. 6

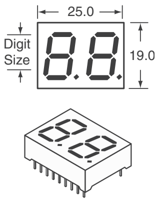

Fig. 7

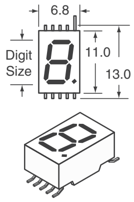

Fig.	Emitted Color	Peak Wavelength (nm)	Digit Size Inch (mm)	No. of Digits	Forward Voltage (Typ.) (V)	Forward Current (mA)	Iv (mcd) (min.)	Iv (mcd) (Typ.)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Rohm Part No.
1	Red	626	.31 (8.0)	1	2.05	25	36	90	511-1517-ND	2.92	1.60	1.43	LA-301AB
	Red	626	.31 (8.0)	1	2.05	25	36	90	511-1518-ND	2.92	1.60	1.43	LA-301AL
	Orange	610	.31 (8.0)	1	2.05	25	36	90	511-1519-ND	3.20	1.75	1.52	LA-301EB
	Orange	610	.31 (8.0)	1	2.05	25	36	90	511-1520-ND	3.20	1.75	1.52	LA-301EL
	Green	563	.31 (8.0)	1	2.1	20	3.6	10	511-1563-ND	2.28	1.28	1.14	LA-301MB
	Green	563	.31 (8.0)	1	2.1	20	3.6	10	511-1564-ND	2.28	1.28	1.14	LA-301ML
	Red	650	.31 (8.0)	1	2.0	15	3.6	10	511-1565-ND	1.69	.83	.73	LA-301VB
	Red	650	.31 (8.0)	1	2.0	15	3.6	10	511-1566-ND	2.28	1.28	1.14	LA-301VL
	Yellow	589	.31 (8.0)	1	2.05	25	36	90	511-1567-ND	3.20	1.75	1.52	LA-301XB
	Yellow	589	.31 (8.0)	1	2.05	25	36	90	511-1521-ND	3.20	1.75	1.52	LA-301XL
2	Red	626	.40 (10.16)	1	2.05	25	36	90	511-1522-ND	2.80	1.53	1.37	LA-401AD
	Red	626	.40 (10.16)	1	2.05	25	36	90	511-1523-ND	2.80	1.53	1.37	LA-401AN
	Blue	470	.40 (10.16)	1	3.6	10	14	56	511-1524-ND	10.25	6.62	6.09	LA-401BD
	Blue	470	.40 (10.16)	1	3.6	10	14	56	511-1525-ND	10.25	6.62	6.09	LA-401BN
	Orange	610	.40 (10.16)	1	2.05	25	36	90	511-1526-ND	3.45	2.13	1.88	LA-401ED
	Orange	610	.40 (10.16)	1	2.05	25	36	90	511-1527-ND	3.45	2.13	1.88	LA-401EN
	Green	563	.40 (10.16)	1	2.1	20	5.6	16	511-1528-ND	2.80	1.53	1.37	LA-401MD
	Green	563	.40 (10.16)	1	2.1	20	5.6	16	511-1529-ND	2.80	1.53	1.37	LA-401MN
	Red	650	.40 (10.16)	1	2.0	15	5.6	16	511-1530-ND	2.80	1.53	1.37	LA-401VD
	Red	650	.40 (10.16)	1	2.0	15	5.6	16	511-1531-ND	2.80	1.53	1.37	LA-401VN
	Yellow	589	.40 (10.16)	1	2.05	25	36	90	511-1532-ND	3.45	2.13	1.88	LA-401XD
	Yellow	589	.40 (10.16)	1	2.05	25	36	90	511-1533-ND	3.45	2.13	1.88	LA-401XN
3	Red	626	.57 (14.6)	1	2.05	25	36	90	511-1534-ND	3.00	1.86	1.64	LA-601AB
	Red	626	.57 (14.6)	1	2.05	25	36	90	511-1535-ND	3.00	1.86	1.64	LA-601AL
	Blue	470	.57 (14.6)	1	3.6	10	14	56	511-1536-ND	10.11	6.53	6.01	LA-601BB
	Blue	470	.57 (14.6)	1	3.6	10	14	56	511-1537-ND	11.66	8.42	7.49	LA-601BL
	Orange	610	.57 (14.6)	1	2.05	25	36	90	511-1538-ND	3.61	2.17	1.96	LA-601EB
	Orange	610	.57 (14.6)	1	2.05	25	36	90	511-1539-ND	3.61	2.17	1.96	LA-601EL
	Green	563	.57 (14.6)	1	2.1	20	9	22	511-1540-ND	2.60	1.46	1.28	LA-601MB
	Green	563	.57 (14.6)	1	2.1	20	9	22	511-1541-ND	2.60	1.46	1.28	LA-601ML
	Red	650	.57 (14.6)	1	2.0	20	5.6	14	511-1542-ND	2.60	1.46	1.28	LA-601VB
	Red	650	.57 (14.6)	1	2.0	20	5.6	14	511-1543-ND	2.60	1.46	1.28	LA-601VL
	Yellow	589	.57 (14.6)	1	2.05	25	36	90	511-1544-ND	3.45	2.13	1.88	LA-601XL
	Yellow	589	.57 (14.6)	1	2.05	25	36	90	511-1571-ND	3.45	2.13	1.88	LA-601XB
4	Green	563	.30 (7.62)	2	2.1	20	2.2	6.3	511-1545-ND	4.45	2.68	2.42	LB-302MF
	Green	563	.30 (7.62)	2	2.1	20	2.2	6.3	511-1546-ND	7.72	5.21	4.59	LB-302MP
	Red	650	.30 (7.62)	2	2.0	15	2.2	6.3	511-1547-ND	5.38	3.14	2.88	LB-302VF
	Red	650	.30 (7.62)	2	2.0	15	2.2	6.3	511-1548-ND	6.35	3.67	3.28	LB-302VP
5	Orange	610	.40 (10.16)	2	2.0	15	3.6	10	511-1549-ND	4.14	2.49	2.25	LB-402DN
	Orange	610	.40 (10.16)	2	2.0	15	3.6	10	511-1550-ND	4.14	2.49	2.25	LB-402DD
	Green	563	.40 (10.16)	2	2.1	20	9.0	25	511-1551-ND	7.11	4.10	3.68	LB-402MD
	Green	563	.40 (10.16)	2	2.1	20	9.0	25	511-1552-ND	7.11	4.10	3.68	LB-402MN
	Red	650	.40 (10.16)	2	2.0	15	5.6	16	511-1553-ND	7.11	4.10	3.68	LB-402VD
	Red	650	.40 (10.16)	2	2.0	15	5.6	16	511-1554-ND	7.11	4.10	3.68	LB-402VN
6	Red	626	.56 (14.3)	2	2.05	25	36	90	511-1555-ND	6.11	3.53	3.16	LB-602AA2
	Red	626	.56 (14.3)	2	2.05	25	36	90	511-1556-ND	6.11	3.53	3.16	LB-602AK2
	Blue	470	.56 (14.3)	2	3.6	10	14	56	511-1557-ND	16.68	11.82	10.71	LB-602BA2
	Blue	470	.56 (14.3)	2	3.6	10	14	56	511-1558-ND	16.68	11.82	10.71	LB-602BK2
	Green	563	.56 (14.3)	2	2.1	20	9	25	511-1559-ND	4.28	2.57	2.33	LB-602MA2
	Green	563	.56 (14.3)	2	2.1	20	9	25	511-1560-ND	4.28	2.57	2.33	LB-602MK2
	Red	650	.56 (14.3)	2	2.0	20	5.6	16	511-1561-ND	4.45	2.68	2.42	LB-602VA2
	Red	650	.56 (14.3)	2	2.0	20	5.6	16	511-1562-ND	4.28	2.57	2.33	LB-602VK2
7	Green	563	.31 (8.0)	1	2.1	20	3.6	10	511-1568-1-ND†	3.11	1.92	1.69	LF-301MA
	Green	563	.31 (8.0)	1	2.1	20	3.6	10	511-1568-2-ND▲		1449.00/1,000		LF-301MA
	Red	650	.31 (8.0)	1	2.0	15	3.6	10	511-1569-1-ND†	3.11	1.92	1.69	LF-301VA
	Red	650	.31 (8.0)	1	2.0	15	3.6	10	511-1569-2-ND▲		1449.00/1,000		LF-301VA
	Red	650	.31 (8.0)	1	2.0	15	3.6	10	511-1570-1-ND†	3.11	1.92	1.69	LF-301VK
	Red	650	.31 (8.0)	1	2.0	15	3.6	10	511-1570-2-ND▲		1449.00/1,000		LF-301VK

† Cut Tape ▲ Tape and Reel

LED Dot Matrix Displays

Dimensions in mm

Fig. 1

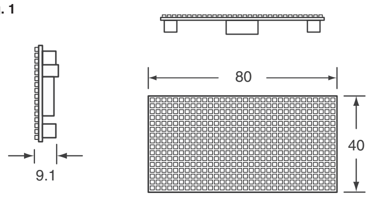

Fig. 2

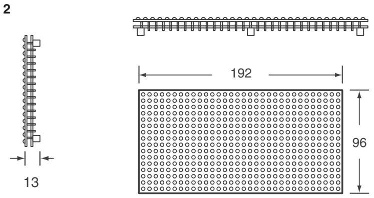

Fig. 3

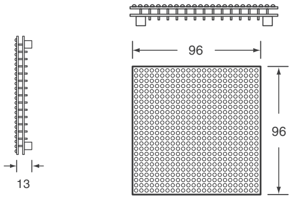

Fig	Matrix	Emitted Color	Lens	Wave-Length (nm)	Foward Voltage (Typ.) (V)	Output (Candelas)	View Angle	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Rohm Part No.
1	16x32	Red/Green	Dome	630/570	5	100/200	160°	511-1572-ND	296.24	245.33	231.44	LUM-512CMU300
2	16x32	Red/Green	Dome	624/571	5	250/200	140°	511-1574-ND	170.78	142.32	131.97	LPM-5123MU350
3	24x24	Red/Green	Dome	624/571	5	300/300	140°	511-1575-ND	170.78	142.32	131.97	LPM-5763MU301

High Brightness LEDs

Dimensions in mm

Fig. 1

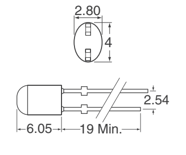

Fig. 2

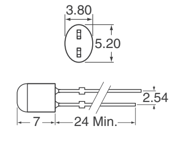

Fig. 3

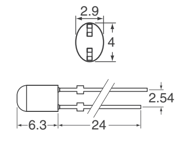

Fig. 4

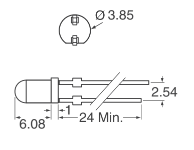

Fig. 5

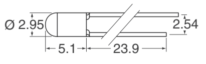

Fig. 6 ***NEW!***

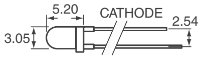

Fig. 7

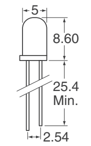

Fig. 8

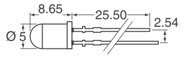

Fig. 9

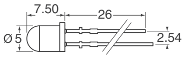

Fig. 10

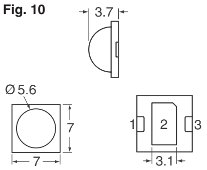

Fig. 11

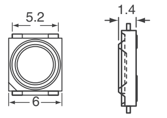

Fig. 12

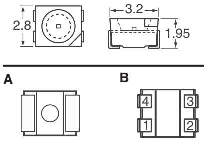

Fig. 13

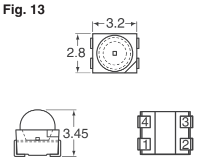

Fig. 14

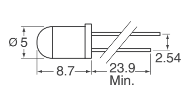

Fig. 15

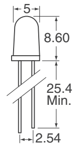

Fig. 16

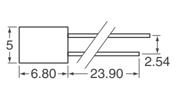

Fig. 17

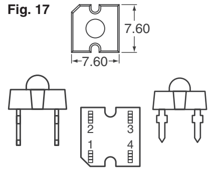

Fig. 18

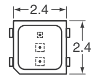

Fig. 19

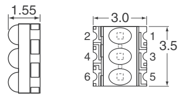

Fig. 20

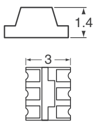

Fig. 21

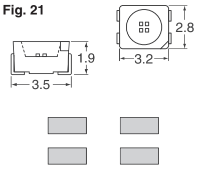

Fig. 22

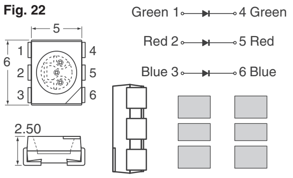

Fig. 23 ***NEW!***

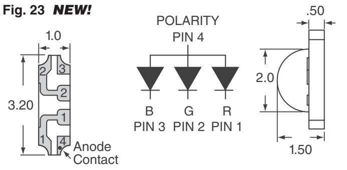

Fig. 24

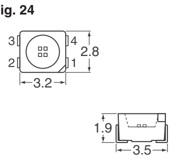

Fig. 25

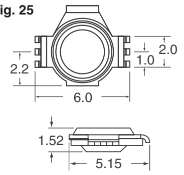

Fig.	Size (mm)	Chip			Lens Color	Luminous Intensity (Typ.)		Viewing Angle	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		OPTEK Technology Part No.
		Material	Emitted Color	Dominant Wavelength (nm)		(mcd)	@IF(mA)			1	25	100		Qty.	Pricing	
Oval — Multiple Viewing Angles																
1	3	InGaN	Blue	470	Blue Diffused	300	20	100°/60°	365-1198-ND	1.21	.88	.71	—	—	—	OVLKBGT6
		InGaN	Green	525	Green Diffused	1100	20	100°/60°	365-1199-ND	1.21	.88	.71	—	—	—	OVLKGGT6
		AlInGaP	Red-Orange	616	Orange Diffused	430	20	100°/60°	365-1200-ND	.55	.40	.32	—	—	—	OVLKQGT6
2	5	InGaN	Blue	470	Blue Diffused	500	20	110°/50°	365-1191-ND	1.02	.74	.60	—	—	—	OVLHBKD8
		InGaN	Green	525	Green Diffused	1100	20	110°/50°	365-1192-ND	1.18	.86	.69	—	—	—	OVLHGKD8
		AlInGaP	Red/Orange	618	Orange Diffused	800	20	110°/50°	365-1193-ND	.61	.44	.36	—	—	—	OVLHQKD8
		AlInGaP	Red	624	Red Diffused	950	20	110°/50°	365-1194-ND	.39	.28	.23	—	—	—	OVLHRKD8
3	4	InGaN	Blue	470	Blue Diffused	300	20	100°/50°	365-1195-ND	.74	.54	.44	—	—	—	OVLJBGD8
		InGaN	Green	525	Green Diffused	1200	20	100°/50°	365-1196-ND	1.02	.74	.60	—	—	—	OVLJGGD8
		AlInGaP	Red	624	Red Diffused	400	20	100°/50°	365-1197-ND	.30	.22	.18	—	—	—	OVLJRGD8
Round — Wide Viewing Angles																
4	3	InGaN	Blue	470	Water Clear	600	20	65°	365-1169-ND	1.02	.74	.60	—	—	—	OVLAB6CB8
		InGaN	Green	527	Water Clear	2000	20	65°	365-1170-ND	1.18	.86	.69	—	—	—	OVLAG6CB8
		AlInGaP	Red	628	Water Clear	1100	20	65°	365-1171-ND	.50	.36	.29	—	—	—	OVLAS6CB8
5	3	InGaN	Blue	470	Water Clear	900	20	45°	365-1173-ND	.72	.52	.42	—	—	—	OVLBB4C7
		InGaN	Green	525	Water Clear	2000	20	45°	365-1174-ND	1.13	.82	.66	—	—	—	OVLBG4C7
		AlInGaP	Yellow	589	Water Clear	2400	20	45°	365-1176-ND	.44	.32	.26	—	—	—	OVLBY4C7
		AlInGaP	Red	623	Water Clear	1800	20	45°	365-1175-ND	.44	.32	.26	—	—	—	OVLBR4C7
Round — High Intensity																
6	3	InGaN	White	—	Water Clear	3500	20	45°	365-1467-ND ***NEW!***	.80	.58	.47	—	—	—	OVLAW4CB7
7	5	InGaN	White	—	Water Clear	18000	20	15°	365-1177-ND	.91	.66	.53	—	—	—	OVLEW1CB9
8	5	InGaN	White	—	Water Clear	2100	20	30°	365-1178-ND	1.43	1.04	.84	—	—	—	OVLEW3CB6
9	5	InGaN	White	—	Water Clear	1600	20	50°	365-1179-ND	1.43	1.04	.84	—	—	—	OVLEW5CB6
Square — Power Surface Mount																
10	7	InGaN	White	—	Water Clear	350	23	70°	365-1220-1-ND	10.41	6.94	6.08	—	—	—	OVSPW7CR8
11	6	AlInGaP	Amber	587	Water Clear	11250	400	120°	365-1342-1-ND	2.60	1.68	1.44	365-1342-2-ND	2,000	1160.00/M	OVSPYBCR4
		AlInGaP	Red	625	Water Clear	9000	400	120°	365-1345-1-ND	2.60	1.68	1.44	365-1345-2-ND	2,000	1160.00/M	OVSPRBCR4
		InGaN	White	—	Water Clear	18000	350	120°	365-1346-1-ND	4.71	3.05	2.61	365-1346-2-ND	2,000	2102.50/M	OVSPWBCR4
		InGaN	Blue	470	Water Clear	3400	350	120°	365-1343-1-ND	4.32	2.80	2.40	365-1343-2-ND	2,000	1928.50/M	OVSPBBCR4
		InGaN	Green	530	Water Clear	18200	350	120°	365-1344-1-ND	6.50	4.20	3.60	365-1344-2-ND	2,000	2900.00/M	OVSPGBCR4
Top View Surface Mount — Package: PLCC2																
12A	—	InGaN	White	—	Water Clear	750	20	120°	365-1361-1-ND	.91	.59	.51	365-1361-2-ND	2,000	406.00/M	OVS9WBCR4
Top View Surface Mount — Package: PLCC4																
12B	—	InGaN	White	—	Water Clear	1050	30	120°	365-1363-1-ND	1.11	.72	.62	365-1363-2-ND	2,000	493.00/M	OVSAWBCR4
		InGaN	Blue	470	Water Clear	200	30	120°	365-1208-1-ND	1.07	.70	.60	365-1208-2-ND	2,000	478.50/M	OVSABBC2R8
		InGaN	Blue-Green	505	Water Clear	560	30	120°	365-1209-1-ND	1.40	.91	.78	365-1209-2-ND	2,000	623.50/M	OVSACBC2R8
		InGaN	Green	527	Water Clear	700	30	120°	365-1210-1-ND	1.40	.91	.78	365-1210-2-ND	2,000	623.50/M	OVSAGBC2R8
		AlInGaP	Amber	591	Water Clear	700	50	120°	365-1206-1-ND	.85	.55	.47	365-1206-2-ND	2,000	377.00/M	OVSAABC2R8
		AlInGaP	Red	628	Water Clear	900	50	120°	365-1213-1-ND	.81	.53	.45	365-1213-2-ND	2,000	362.50/M	OVSASBC2R8

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

TT electronics OPTEK Technology

High Brightness LEDs *(Cont.)*

Fig.	Size (mm)	Chip			Lens Color	Luminous Intensity (Typ.)		Viewing Angle	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		OPTEK Technology Part No.
		Material	Emitted Color	Dominant Wavelength (nm)		(mcd)	@IF(mA)			1	25	100		Qty.	Pricing	
Top View Surface Mount with Domed Lens — Package: PLCC4																
13	—	AlInGaP	Amber	591	Water Clear	1650	50	60°	365-1207-1-ND	.85	.55	.47	365-1207-2-ND	700	273.00	OVSAABLCR8
		AlInGaP	Red-Orange	618	Water Clear	2800	50	60°	365-1211-1-ND	.85	.55	.47	365-1211-2-ND	700	273.00	OVSAQBLCR8
		AlInGaP	Red	628	Water Clear	900	50	60°	365-1214-1-ND	.85	.55	.47	365-1214-2-ND	700	273.00	OVSASBLCR8
Round — High Brightness																
14	5	InGaN	Blue	470	Water Clear	1350	20	30°	365-1180-ND	.72	.52	.42	—	—	—	OVLFB3C7
		InGaN	Green	525	Water Clear	5200	20	30°	365-1181-ND	1.13	.82	.66	—	—	—	OVLFG3C7
		AlInGaP	Yellow	589	Water Clear	5700	20	30°	365-1183-ND	.44	.32	.26	—	—	—	OVLFY3C7
		AlInGaP	Red	623	Water Clear	5000	20	30°	365-1182-ND	.44	.32	.26	—	—	—	OVLFR3C7
Round — High Intensity																
15	5	InGaN	Blue	470	Water Clear	3200	20	6°	365-1184-ND	.61	.44	.36	—	—	—	OVLGB0C6B9
		InGaN	Blue-Green	505	Water Clear	8000	20	6°	365-1185-ND	.69	.50	.40	—	—	—	OVLGC0C6B9
		AlInGaP	Yellow	589	Water Clear	20000	20	6°	365-1190-ND	.19	.14	.12	—	—	—	OVLGY0C9B9
		AlInGaP	Red	631	Water Clear	10000	20	6°	365-1189-ND	.19	.14	.12	—	—	—	OVLGS0C8B9
Cylindrical — High Intensity																
16	5	InGaN	Blue	470	Water Clear	300	20	85°	365-1201-ND	.72	.52	.42	—	—	—	OVLLB8C7
		InGaN	Green	525	Water Clear	670	20	85°	365-1202-ND	1.13	.82	.66	—	—	—	OVLLG8C7
		AlInGaP	Yellow	589	Water Clear	650	20	85°	365-1204-ND	.44	.32	.26	—	—	—	OVLLY8C7
		AlInGaP	Red	623	Water Clear	570	20	85°	365-1203-ND	.44	.32	.26	—	—	—	OVLLR8C7
Super Flux 4-Pin																
17	7.6	InGaN	Blue	470	Water Clear	850	30	60°	365-1164-ND	.83	.60	.48	—	—	—	OVFSB6C8
		InGaN	Green	527	Water Clear	2500	30	60°	365-1165-ND	1.10	.80	.64	—	—	—	OVFSG6C8
		AlInGaP	Amber	591	Water Clear	5000	70	100°	365-1163-ND	.55	.40	.32	—	—	—	OVFSAAC8
		AlInGaP	Red/Orange	618	Water Clear	4500	70	40°	365-1166-ND	.61	.44	.36	—	—	—	OVFSQ4C8
		AlInGaP	Red	624	Water Clear	4500	70	100°	365-1167-ND	.50	.36	.29	—	—	—	OVFSRAC8
		InGaN	White	—	Water Clear	1200	30	60°	365-1168-ND	1.21	.88	.71	—	—	—	OVFSW6C8

Full Color (RGB) Surface Mount

Fig.	Lens Color	IV (mcd)				Viewing Angle	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		OPTEK Technology Part No.
		@IF(mA)	Typical Red	Typical Green	Typical Blue			1	25	100		Qty.	Pricing	
Top-View Chip														
18	Water Clear	20	100	300	80	110°	365-1230-1-ND	3.12	2.08	1.82	—	—	—	OVSTRGBAC6
19	Water Clear	20	180	550	152	Multiple	365-1233-1-ND	3.72	2.48	2.17	—	—	—	OVSTRGBLC6
20	Water Clear	20	53	165	46	Multiple	365-1232-1-ND	4.03	2.61	2.24	365-1232-2-ND	1,000	1798.00	OVSTRGBFC6
PLCC4														
21	Water Clear	20	300	450	110	120°	365-1212-1-ND	2.47	1.60	1.37	365-1212-2-ND	2,000	1102.00/M	OVSARGB3R8
PLCC6														
22	Water Clear	50	1000	900	280	120°	365-1231-1-ND	4.65	3.01	2.58	365-1231-2-ND	900	1930.50	OVSTRGBBCR8
1204														
23	White Diffused	20	125	300	75	150°	365-1410-1-ND ***NEW!***	1.20	.78	.67	365-1410-2-ND ***NEW!***	2,000	536.50/M	OVSRRGBCC3

White InGaN Surface Mount

Fig.	Package	Chip			Luminous Intensity (Typical)		Viewing Angle	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		OPTEK Technology Part No.
		Material	Emitted Color	Lens Color	(mcd)	@IF(mA)			1	25	100		Qty.	Pricing	
24	PLCC4	InGaN	White	Water Clear	1900	20	120°	365-1215-1-ND	3.83	2.56	2.24	365-1215-2-ND	2,000	1786.40/M	OVSAWBCR9

1 Watt Cup Series

OPTEK Lednium Solid State Lighting products package the highest quality LED chips. Typically, the lumen output of these can be as high as 70% after 50,000 hours of operation. That is, the percentage of the initial light output still being emitted after a specified operating time. This prediction is based on specific test results and tests on similar materials, and relies on strict observation of the design limits and ratings.

Specifications:
- Input Current: 1.0A
- Junction Temperature: Tj = 130°C
- Viewing Angle at half maximum intensity: 135°

Fig.	Mounting Type	λD (nm) Typical	Emitted Color	Typical Iv/flux (lm)	Forward Voltage (Vf)			Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	OPTEK Technology Part No.
					Minimum	Typical	Maximum		1	25	100			
25	Flush	595	Amber	38	1.9	2.3	2.6	365-1347-1-ND	3.77	2.44	2.09	365-1347-2-ND	1682.00	OVTL01LGAA
		460	Blue	15	2.9	3.4	3.7	365-1348-1-ND	4.29	2.78	2.38	365-1348-2-ND	1914.00	OVTL01LGAB
		515	Green	52	3.2	3.6	4.0	365-1349-1-ND	4.29	2.78	2.38	365-1349-2-ND	1914.00	OVTL01LGAG
		625	Red	53	1.9	2.3	2.6	365-1350-1-ND	3.77	2.44	2.09	365-1350-2-ND	1682.00	OVTL01LGAR
		—	Cool White	50	2.9	3.4	3.7	365-1351-1-ND	4.55	2.94	2.52	365-1351-2-ND	2030.00	OVTL01LGAW
		—	Daylight White	45	2.9	3.4	3.7	365-1352-1-ND	4.55	2.94	2.52	365-1352-2-ND	2030.00	OVTL01LGAWD
		—	Warm White	30	2.9	3.4	3.7	365-1353-1-ND	4.55	2.94	2.52	365-1353-2-ND	2030.00	OVTL01LGAWW
	Standard	595	Amber	38	1.9	2.3	2.6	365-1354-1-ND	3.77	2.44	2.09	365-1354-2-ND	1682.00	OVTL01LGAAS
		460	Blue	15	2.9	3.4	3.7	365-1355-1-ND	4.29	2.78	2.38	365-1355-2-ND	1914.00	OVTL01LGABS
		515	Green	52	3.2	3.6	4.0	365-1356-1-ND	4.29	2.78	2.38	365-1356-2-ND	1914.00	OVTL01LGAGS
		625	Red	53	1.9	2.3	2.6	365-1357-1-ND	3.77	2.44	2.09	365-1357-2-ND	1682.00	OVTL01LGARS
		—	Cool White	50	2.9	3.4	3.7	365-1358-1-ND	4.55	2.94	2.52	365-1358-2-ND	2030.00	OVTL01LGAWS
		—	Daylight White	45	2.9	3.4	3.7	365-1359-1-ND	4.55	2.94	2.52	365-1359-2-ND	2030.00	OVTL01LGAWDS
		—	Warm White	30	2.9	3.4	3.7	365-1360-1-ND	4.55	2.94	2.52	365-1360-2-ND	2030.00	OVTL01LGAWWS

LED Design Kit

Each kit contains three LED drivers to power the VLED assemblies. The assemblies in the LED design kit feature OPTEK's OVSPxBCR4 Series 1-Watt LEDs. The energy efficient packaged LEDs offer high luminance and a long operating lifespan. Available with yellow, blue, green, red and white LEDs. The 1-Watt LEDs offer a full 120° viewing angle and an ultra-low board-mounted profile.

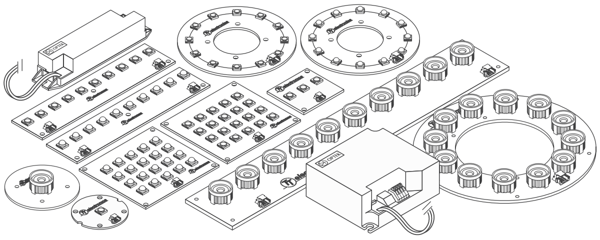

Kit includes (1 each):
- LD350: Power cube 350mA with 110 VAC power cord
- LD700: Power cube 700mA with 110 VAC power cord
- LD1400: Power cube 1400mA with 110 VAC power cord
- OPA729: Linear 10/1W LED (Power with LD700)
- OPA730: Round Flood 12/1W LED (Power with LD700)
- OPA731: Square Flood 20/1W LED (Power with LD1400)
- OPA733R: Round Spot 1W Red LED (Power with LD350)
- OPA733Y: Round Spot 1W Yellow LED (Power with LD350)
- OPA733G: Round Spot 1W Green LED (Power with LD350)
- OPA733B: Round Spot 1W Blue LED (Power with LD350)
- OPA733W: Round Spot 1W White LED (Power with LD350)
- OPA739: Square 3/1W LED (Power with LD350)
- OPA740: Linear with Lens 10/1W LED (Power with LD700)
- OPA741: Ring with Lens 12/1W LED (Power with LD700)
- OPA742: Round Spot with Lens 1W LED (Power with LD350)

365-1362-ND..**$650.00**

(Continued)

10 Watt LED Array

OPTEK Lednium Solid State Lighting products package the highest quality LED chips. Typically the lumen output of these can be as high as 70% after 50,000 hours of operation. That is, the percentage of the initial light output still being emitted after a specified operating time. This prediction is based on specific test results and on tests on similar materials, and relies on strict observation of the design limits and ratings. **Specifications:** • Input Current: 1.05A • Junction Temperature: Tj = 25°C • Viewing Angle at half maximum intensity: 120°

Dimensions in mm

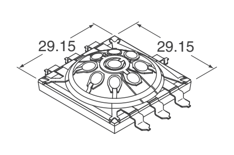

λD (nm) Typical	Emitted Color	Typical Iv/flux (lm)	Forward Voltage (V_f) Minimum	Typical	Maximum	Digi-Key Part No.	Price Each 1	25	100	OPTEK Technology Part No.
595	Amber	270	5.7	6.9	7.8	365-1382-ND	46.53	33.84	27.08	OVTL09LG3A
460	Blue	70	8.7	10.2	11.1	365-1383-ND	50.77	36.92	29.54	OVTL09LG3B
515	Green	250	9.6	10.8	12.0	365-1379-ND	50.77	36.92	29.54	OVTL09LG3G
625	Red	230	5.7	6.9	7.8	365-1385-ND	46.53	33.84	27.08	OVTL09LG3R
—	Cool White	250	8.7	10.2	11.1	365-1386-ND	55.00	40.00	32.00	OVTL09LG3W
—	Daylight White	275	8.7	10.2	11.1	365-1398-ND	55.00	40.00	32.00	OVTL09LG3WD
—	Warm White	230	8.7	10.2	11.1	365-1397-ND	55.00	40.00	32.00	OVTL09LG3WW
625/515/460	Red/Green/Blue	221	8.5	9.2	9.9	365-1396-ND	46.53	33.84	27.08	OVTL09LG3M

LED Arrays

Fig. 1

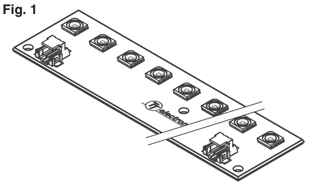

Fig. 2

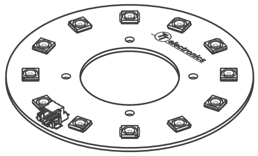

Fig. 3

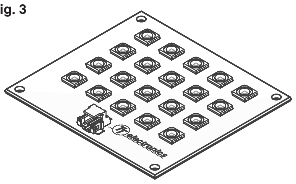

Fig. 4

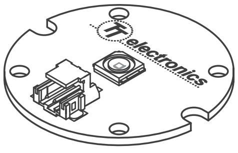

Fig. 5

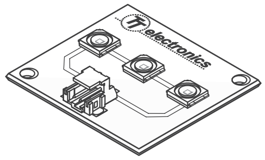

Fig. 6

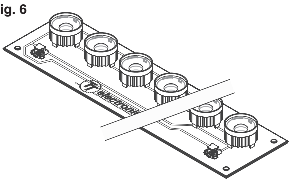

Fig. 7

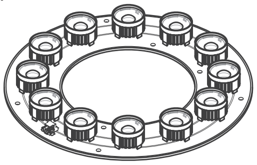

Fig. 8

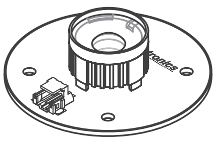

Fig.	Emitted Color	Forward Current (mA)	Lens Type	Wave-length (°K)	Forward Voltage (V_f)	Luminous Flux (lm)	Beam Angle	Digi-Key Part No.	Price Each 1	25	100	OPTEK Technology Part No.
1	White	700	Flat	6500	18.0	480	120°	365-1365-ND	58.27	42.38	33.91	OPA729W
			Dome	6500	18.0	480	40°	365-1366-ND	67.57	49.14	39.33	OPA729WD
2	White	700	Flat	6500	21.6	576	120°	365-1367-ND	71.45	51.96	41.58	OPA730W
			Dome	6500	21.6	576	40°	365-1368-ND	82.80	60.22	48.18	OPA730WD
3	White	1400	Flat	6500	18.0	960	120°	365-1369-ND	103.70	75.42	60.35	OPA731W
			Dome	6500	18.0	960	40°	365-1370-ND	122.38	89.00	71.20	OPA731WD
4	White	350	Flat	6500	3.6	48	120°	365-1371-ND	10.95	7.96	6.37	OPA733W
			Dome	6500	3.6	48	40°	365-1372-ND	11.96	8.70	6.96	OPA733WD
5	White	350	Flat	6500	10.8	144	120°	365-1373-ND	19.53	14.20	11.36	OPA739W
			Dome	6500	10.8	144	40°	365-1374-ND	22.41	16.30	13.04	OPA739WD
6	White	700	Flat	6500	18.0	408	23°	365-1375-ND	109.70	79.78	63.83	OPA740W23
7	White	700	Flat	6500	21.6	490	23°	365-1376-ND	137.75	100.18	80.15	OPA741W23
8	White	350	Flat	6500	3.6	41	23°	365-1377-ND	17.00	12.36	9.89	OPA742W23

Surface Mount Power Devices and Lenses

Fig. 1

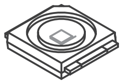

Fig. 2

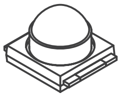

Fig. 3

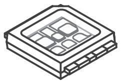

Fig. 4

Power LEDs

Fig.	Emitted Color	Lens Type	Viewing Angle	Forward Voltage Typ. (V_f)	Forward Current (mA)	Typical Luminous Flux (lm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	OPTEK Technology Part No.
1	White	Flat	120°	3.6	120	7	365-1387-1-ND	2.60	1.68	1.44	365-1387-2-ND	2,000	1160.00/M	OVS3WBCR4
				3.2	180	21	365-1390-1-ND	2.15	1.39	1.19	365-1390-2-ND	2,000	957.00/M	OVS5WBCR4
	White	Dome	60°	3.6	120	7	365-1388-1-ND	3.25	2.10	1.80	365-1388-2-ND	1,000	1450.00	OVS3WBCR44
				3.6	350	52	365-1394-1-ND	4.88	3.15	2.70	365-1394-2-ND	1,000	2175.00	OVSPWBCR44
2	Red	Dome	40°	2.2	175	8	365-1389-1-ND	1.30	.84	.72	365-1389-2-ND	1,000	580.00	OVS5R4CR44
				2.5	400	30	365-1392-1-ND	3.02	1.96	1.68	365-1392-2-ND	1,000	1348.50	OVSPRBCR44
	Yellow	Dome	40°	2.2	175	11	365-1391-1-ND	1.30	.84	.72	365-1391-2-ND	1,000	580.00	OVS5Y4CR44
				2.5	400	35	365-1395-1-ND	3.02	1.96	1.68	365-1395-2-ND	1,000	1348.50	OVSPYBCR44
3	RGB	Flat	130°	2.3/3.5/3.5	3 x 250	21/32/7.5	365-1393-1-ND	9.75	6.30	5.40	365-1393-2-ND	1,000	4350.00	OVSPRGBCR4

Lenses

Fig.	Viewing Angle	Material	Lens Color	Lens Holder	Digi-Key Part No.	Price Each 1	25	100	OPTEK Technology Part No.
4	15°	Polycarbonate	Water Clear	Black	365-1380-ND	2.31	1.68	1.35	OVLENS154
	23°	Polycarbonate	Water Clear	Black	365-1381-ND	2.31	1.68	1.35	OVLENS234

Dimensions in mm

Fig. 1

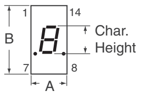

Fig. 2

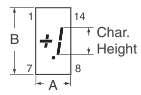

Fig. 3

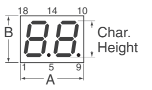

Fig. 4

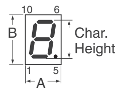

Fig. 5

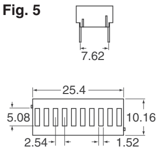

Fig. 6

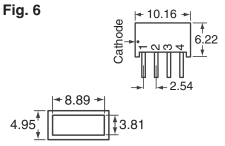

Fig. 7

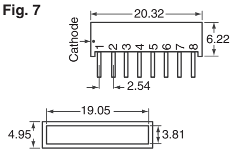

Fig. 8

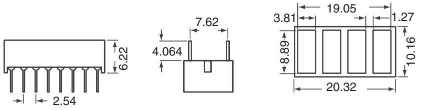

Fig. 9

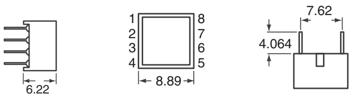

Fig. 10

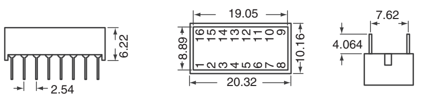

LED 7-Segment Displays *(All 7-Segment displays have a right hand decimal point unless noted otherwise.)*

Fig.	Color	Char. Height (mm)	A Width (mm)	B Height (mm)	Forward Voltage (V)	Forward Current (mA)	Luminous Intensity µcd @ mA		Digi-Key Part No. Common Anode	Price Each 1	10	100	Avago Part No.	Digi-Key Part No. Common Cathode	Price Each 1	10	100	Avago Part No.
1	HE Red	7.62	10.16	19.05	2.1	30	800	5	516-1186-5-ND◆†	3.54	2.44	1.99	5082-7610	—	—	—	—	—
	HE Red	7.62	10.16	19.05	2.1	30	800	5	516-1187-5-ND◆	3.54	2.44	1.99	5082-7611	516-1188-5-ND◆	3.54	2.44	1.99	5082-7613
	Green	7.62	10.16	19.05	2.1	30	2,700	10	516-1189-5-ND◆	3.54	2.44	1.99	HDSP-3601	516-1190-5-ND	3.54	2.44	1.99	HDSP-3603
	HE Red	10.92	12.70	19.05	2.1	30	1,115	5	516-1191-5-ND◆†	3.54	2.44	1.99	5082-7650	—	—	—	—	—
	HE Red	10.92	12.70	19.05	2.1	30	1,115	5	516-1192-5-ND◆	3.54	2.44	1.99	5082-7651	516-1193-5-ND◆	3.54	2.44	1.99	5082-7653
	Green	10.92	12.70	19.05	2.1	30	4,000	10	516-1194-5-ND◆	3.54	2.44	1.99	HDSP-4601	516-1195-5-ND◆	3.54	2.44	1.99	HDSP-4603
	HE Red	10.16	9.79	12.90	2.0	30	1,200	5	516-1198-5-ND◆	3.30	2.20	1.80	HDSP-F201	516-1199-5-ND◆	3.30	2.20	1.80	HDSP-F203
	Green	10.16	9.79	12.90	2.1	30	3,500	10	516-1200-5-ND◆	3.30	2.20	1.80	HDSP-F501	516-1201-5-ND◆	3.30	2.20	1.80	HDSP-F503
	HE Red	7.62	7.62	12.70	2.0	30	5,390	20	516-1202-5-ND◆	3.30	2.20	1.80	HDSP-7501	516-1203-5-ND◆	3.30	2.20	1.80	HDSP-7503
	Green	7.62	7.62	12.70	2.1	30	6,800	20	516-1204-5-ND◆	3.30	2.20	1.80	HDSP-7801	516-1205-5-ND◆	3.30	2.20	1.80	HDSP-7803
	Red	7.62	7.62	12.70	1.7	15	3,600	5	516-1220-5-ND◆	3.83	2.64	2.16	HDSP-A101	516-1221-5-ND◆	3.83	2.64	2.16	HDSP-A103
	HE Red	7.62	7.62	12.70	1.7	15	1,050	5	516-1222-5-ND◆	3.65	2.52	2.06	HDSP-7511	516-1223-5-ND	3.65	2.52	2.06	HDSP-7513
	Red	10.16	9.79	12.90	1.7	15	3,900	5	516-1224-5-ND◆	3.83	2.64	2.16	HDSP-F101	516-1225-5-ND◆	3.83	2.64	2.16	HDSP-F103
	Red	10.92	12.70	19.05	1.7	15	3,900	5	516-1226-5-ND◆	4.23	2.92	2.38	HDSP-E101	516-1227-5-ND◆	4.23	2.92	2.38	HDSP-E103
	HE Red	20.32	19.96	27.69	2.6	40	4,800	20	516-1232-5-ND◆	4.87	3.40	2.79	HDSP-3901	516-1233-5-ND◆	4.87	3.40	2.79	HDSP-3903
	Green	20.32	19.96	27.69	2.1	30	1,500	10	516-1234-5-ND◆	4.87	3.40	2.79	HDSP-8601	516-1235-5-ND◆	4.87	3.40	2.79	HDSP-8603
2	HE Red	7.11	10.16	19.05	2.1	30	800	5	516-1196-5-ND◆	3.54	2.44	1.99	5082-7616	—	—	—	—	—
	HE Red	10.92	12.70	19.05	2.1	30	1,115	5	516-1197-5-ND◆	3.54	2.44	1.99	5082-7656	—	—	—	—	—
3	HE Red	14.22	25.00	18.60	2.05	25	4,000	10	516-1206-5-ND◆	1.63	1.02	.77	HDSP-521E	516-1207-5-ND◆	1.63	1.02	.77	HDSP-523E
	Green	14.22	25.00	18.60	2.0	30	3,500	10	516-1208-5-ND◆	1.63	1.02	.77	HDSP-521G	516-1209-5-ND	1.63	1.02	.77	HDSP-523G
	HE Red	14.22	25.15	17.02	2.1	30	2,800	10	516-1216-5-ND◆	4.20	2.93	2.40	HDSP-5521	516-1217-5-ND◆	4.20	2.93	2.40	HDSP-5523
	Green	14.22	25.15	17.02	2.1	30	2,500	10	516-1218-5-ND◆	4.20	2.93	2.40	HDSP-5621	516-1219-5-ND◆	4.20	2.93	2.40	HDSP-5623
4	Red	14.22	12.57	17.02	1.8	40	16,000	20	516-1210-5-ND◆	3.63	2.50	2.04	HDSP-H151	516-1211-5-ND◆	3.63	2.50	2.04	HDSP-H153
	HE Red	14.22	12.57	17.02	2.1	30	2,800	10	516-1212-5-ND◆	3.00	2.00	1.63	HDSP-5501	516-1213-5-ND◆	3.00	2.00	1.63	HDSP-5503
	Green	14.22	12.57	17.02	2.1	30	2,500	10	516-1214-5-ND◆	3.00	2.00	1.63	HDSP-5601	516-1215-5-ND◆	3.00	2.00	1.63	HDSP-5603
	Red	14.22	12.57	17.02	1.7	15	4,200	5	516-1228-5-ND◆	3.48	2.40	1.96	HDSP-H101	516-1229-5-ND◆	3.48	2.40	1.96	HDSP-H103
	HE Red	14.22	12.57	17.02	1.7	15	1,200	5	516-1230-5-ND	3.45	2.30	1.88	HDSP-5551	516-1231-5-ND◆	3.45	2.30	1.88	HDSP-5553

◆ ***RoHS Compliant*** † Left Hand Decimal

Light Bar Graph

RoHS COMPLIANT

Fig.	LED Color	No. of Elements	Forward Voltage (V)	Forward Current (mA)	Luminous Intensity mcd @ mA		Digi-Key Part No.	Price Each 1	10	100	Avago Part No.
5	HE Red/ Yellow/Green	10	2.1/2.2/2.1	30/20/30	3.5 1.9 1.9	10 10 10	516-1236-5-ND	6.53	4.83	4.00	HDSP-4832
	HE Red/ Yellow/Green	10	2.1/2.2/2.1	30/20/30	3.5 1.9 1.9	10 10 10	516-1237-5-ND	6.53	4.83	4.00	HDSP-4836
	HE Red	10	2.1	30	3.5	10	516-1238-5-ND	5.20	3.80	3.10	HDSP-4830
	Red		1.6	15	1	1	516-1239-5-ND	6.19	4.53	3.69	HLCP-J100
	Yellow		2.2	20	1.9	10	516-1240-5-ND	6.19	4.53	3.69	HDSP-4840
	Green		2.1	30	1.9	10	516-1241-5-ND	6.19	4.53	3.69	HDSP-4850
6	Red	1	1.8	15	7.5	3	516-1242-5-ND	2.14	1.39	1.09	HLCP-A100
	HE Red		2.0	30	23	20	516-1243-5-ND	1.75	1.13	.87	HLMP-2300
	Yellow		2.1	25	20	20	516-1244-5-ND	1.75	1.13	.87	HLMP-2400
	Green		2.2	30	25	20	516-1245-5-ND	1.75	1.13	.87	HLMP-2500
7	HE Red	1	2.0	30	45	20	516-1246-5-ND	2.64	1.79	1.45	HLMP-2350
	Yellow		2.1	25	38	20	516-1247-5-ND	2.64	1.79	1.45	HLMP-2450
	Green		2.2	30	50	20	516-1248-5-ND	2.64	1.79	1.45	HLMP-2550
8	Red	4	1.8	15	7.5	3	516-1249-5-ND	4.18	2.88	2.35	HLCP-E100
	HE Red		2.0	30	23	20	516-1250-5-ND	3.63	2.50	2.04	HLMP-2620
	Yellow		2.1	25	20	20	516-1251-5-ND	3.63	2.50	2.04	HLMP-2720
	Green		2.2	30	25	20	516-1252-5-ND	3.63	2.50	2.04	HLMP-2820
9	HE Red	1	2.0	30	45	20	516-1253-5-ND	2.44	1.65	1.28	HLMP-2655
	Yellow		2.1	25	38	20	516-1254-5-ND	2.44	1.65	1.28	HLMP-2755
	Green		2.2	30	50	20	516-1255-5-ND	2.44	1.65	1.28	HLMP-2855
	HE Red/ Green	1	2.0/2.2	30	45 50	20 20	516-1259-5-ND	5.35	3.87	3.17	HLMP-2965
10	HE Red	1	2.0	30	80	20	516-1256-5-ND	3.63	2.50	2.04	HLMP-2685
	Yellow		2.1	25	70	20	516-1257-5-ND	3.63	2.50	2.04	HLMP-2785
	Green		2.2	30	100	20	516-1258-5-ND	3.63	2.50	2.04	HLMP-2885

LEDs

Dimensions in mm

Fig. 1

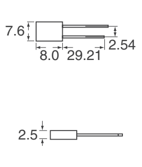

Fig. 2

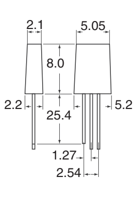

Fig. 3

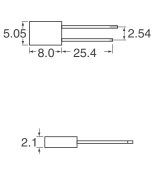

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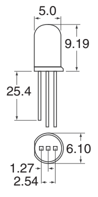

Fig. 5

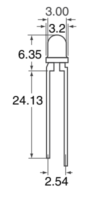

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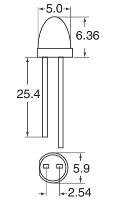

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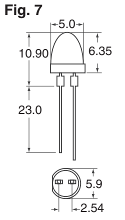

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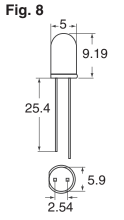

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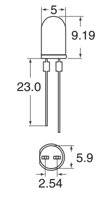

Fig. 10

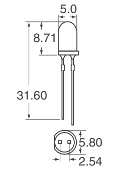

Fig. 11

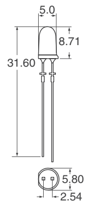

Fig. 12

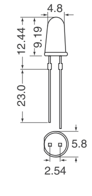

Fig. 13

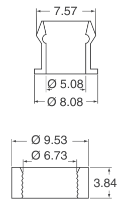

Fig. 14

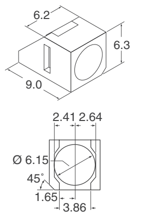

Fig. 15

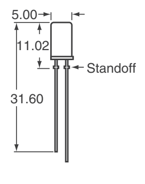

Fig. 16

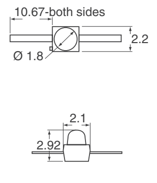

Fig. 17

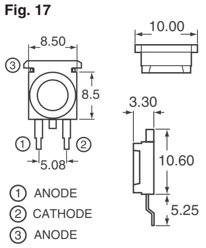

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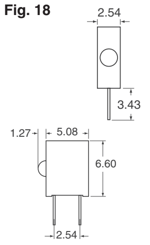

Fig. 19

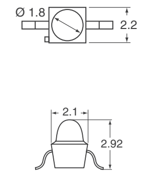

Fig. 20

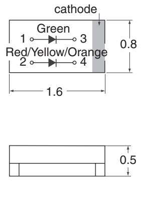

Fig. 21

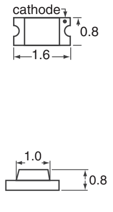

Fig. 22

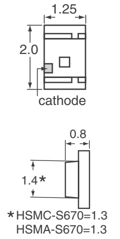

Fig. 23

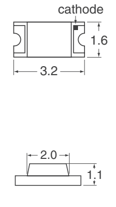

Fig. 24

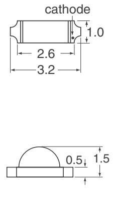

Fig. 25

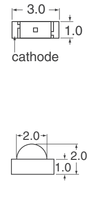

Fig. 26

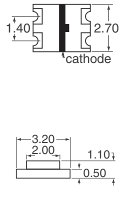

Fig. 27

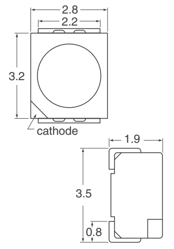

Fig. 28

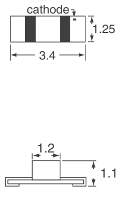

Fig. 29

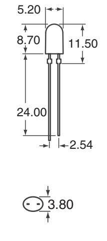

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current		Viewing Angle	Digi-Key Part No.	Pricing 1	10	100	Avago Part No.
1	Rectangular 2.5mm x 7.6mm	HE Red	Diffused	635nm	1.9V	30mA	2.1 min.	20mA	100°	516-1277-ND◆	.90	5.20	38.00	HLMP-0301
		Yellow		583nm	2.1V	20mA	3.6 min.	20mA	100°	516-1278-ND◆	.90	5.20	38.00	HLMP-0401
		Green		565nm	2.2V	30mA	2.6 min.	20mA	100°	516-1279-ND◆	.90	5.20	38.00	HLMP-0504
2	Rect. 2.0mm x 5.0mm	HE Red/Green	White/Diffused	635/568nm	1.9V/2.2V	30mA	2.1/2.6	20mA	100°	516-1280-ND◆	.95	5.72	41.80	HLMP-0800
3	Rectangular 2.0mm x 5.0mm	Red	Diffused	645nm	1.8V	30mA	7.5	20mA	110°	516-1281-ND◆	.51	3.00	20.00	HLMP-S100
		HE Red		635nm	1.9V	30mA	7.5	20mA	110°	516-1282-ND◆	.36	2.04	13.20	HLMP-S201
		HE Red		635nm	1.9V	30mA	3.5	20mA	110°	516-1283-ND◆	.35	2.04	13.20	HLMP-S201-D0000
		Yellow		583nm	2.1V	20mA	4	20mA	110°	516-1284-ND◆	.36	2.04	13.20	HLMP-S301
		Green		565nm	2.2V	30mA	8	20mA	110°	516-1285-ND◆	.36	2.04	13.20	HLMP-S501
		Green		565nm	2.2V	30mA	4	20mA	110°	516-1286-ND◆	.36	2.04	13.20	HLMP-S501-C0000
4	5mm	HE Red/Green	White/Diffused	635/568nm	1.9V/2.2V	30mA	2.1/4.2	10mA	65°	516-1287-ND◆	.72	4.20	29.25	HLMP-4000
5	3mm	HE Red	Diffused	635nm	1.9V	30mA	5.5	10mA	60°	516-1291-ND◆	.36	2.04	13.20	HLMP-1301
		Yellow	Diffused	583nm	2.0V	20mA	6	10mA	60°	516-1292-ND◆	.36	2.04	13.20	HLMP-1401
		Green	Diffused	565nm	2.1V	30mA	5	10mA	60°	516-1293-ND◆	.36	2.04	13.20	HLMP-1503
		HE Red	Tint	635nm	1.9V	30mA	30	10mA	45°	516-1294-ND◆	.36	2.04	13.20	HLMP-1321
		Yellow	Microtint	583nm	2.0V	20mA	15	10mA	45°	516-1295-ND◆	.51	3.00	20.00	HLMP-1420
		Yellow	Tint	583nm	2.0V	20mA	15	10mA	45°	516-1296-ND◆	.36	2.04	13.20	HLMP-1421
		Green	Microtint	565nm	2.1V	30mA	22	10mA	45°	516-1297-ND◆	.51	3.00	20.00	HLMP-1520
		Green	Tint	565nm	2.1V	30mA	22	10mA	45°	516-1298-ND◆	.36	2.04	13.20	HLMP-1521
		HE Red	Water Clear	635nm	1.9V	30mA	55	20mA	45°	516-1299-ND◆	.45	2.56	16.80	HLMP-1340
		Yellow	Water Clear	583nm	2.1V	20mA	45	20mA	45°	516-1300-ND◆	.45	2.56	16.80	HLMP-1440
		Green	Water Clear	565nm	2.2V	30mA	45	20mA	45°	516-1301-ND◆	.45	2.56	16.80	HLMP-1540
		HE Red	Diffused	635nm	5.0V	20mA	8	10mA	60°	516-1302-ND◆	.72	4.20	29.25	HLMP-1600
		HE Red	Diffused	635nm	12.0V	20mA	8	13mA	60°	516-1303-ND◆	.72	4.20	29.25	HLMP-1601
		Yellow	Diffused	583nm	5.0V	20mA	8	10mA	60°	516-1304-ND◆	.72	4.20	29.25	HLMP-1620
		Yellow	Diffused	583nm	12.0V	20mA	8	13mA	60°	516-1305-ND◆	.76	4.48	31.20	HLMP-1621
		Green	Diffused	565nm	5.0V	20mA	8	10mA	60°	516-1306-ND◆	.72	4.20	29.25	HLMP-1640
		Green		565nm	12.0V	20mA	8	13mA	60°	516-1307-ND◆	.72	4.20	29.25	HLMP-1641
		HE Red		635nm	1.7V	7mA	2.1	2mA	50°	516-1308-ND◆	.51	3.00	20.00	HLMP-1700
		Yellow		583nm	1.8V	7mA	2.1	2mA	50°	516-1309-ND◆	.51	3.00	20.00	HLMP-1719
		Green		565nm	1.9V	7mA	2.3	2mA	50°	516-1310-ND◆	.51	3.00	20.00	HLMP-1790
		Red	Diffused	645nm	1.6V	30mA	2	1mA	60°	516-1311-ND◆	.51	3.00	20.00	HLMP-K150
			Water Clear	645nm	1.6V	30mA	3	1mA	45°	516-1312-ND◆	.60	3.48	24.00	HLMP-K155
			Diffused	645nm	1.8V	30mA	45	20mA	60°	516-1313-ND◆	.51	3.00	20.00	HLMP-K101
			Water Clear	645nm	1.8V	30mA	65	20mA	45°	516-1314-ND◆	.45	2.56	16.80	HLMP-K105
6	5mm	HE Red	Diffused	635nm	1.9V	10mA	7	10mA	50°	516-1315-ND◆	.60	3.48	24.00	HLMP-3351
		HE Red	Tint	635nm	1.9V	10mA	18	10mA	45°	516-1316-ND◆	.60	3.48	24.00	HLMP-3366
		Yellow	Diffused	583nm	2.0V	10mA	10	10mA	50°	516-1317-ND◆	.60	3.48	24.00	HLMP-3451
		Green	Diffused	565nm	2.1V	10mA	10	10mA	50°	516-1318-ND◆	.60	3.48	24.00	HLMP-3554
		Green	Tint	565nm	2.1V	10mA	15	10mA	40°	516-1319-ND◆	.60	3.48	24.00	HLMP-3568
7	5mm	HE Red	Water Clear	635nm	1.9V	30mA	55	20mA	32°	516-1320-ND	.60	3.48	24.00	HLMP-3390
		Yellow		583nm	2.1V	20mA	55	20mA	32°	516-1321-ND	.60	3.48	24.00	HLMP-3490
		Green		565nm	2.2V	30mA	55	20mA	32°	516-1322-ND◆	.60	3.48	24.00	HLMP-3590
8	5mm	Red	Diffused	645nm	1.6V	30mA	3	1mA	65°	516-1323-ND◆	.51	3.00	20.00	HLMP-D150
		Red		645nm	1.8V	30mA	70	20mA	65°	516-1324-ND◆	.45	2.56	16.80	HLMP-D101
		HE Red		635nm	1.7V	7mA	2.3	2mA	50°	516-1325-ND◆	.51	3.00	20.00	HLMP-4700
		Yellow		583nm	1.8V	7mA	2.1	2mA	50°	516-1326-ND◆	.51	3.00	20.00	HLMP-4719
		Green		565nm	1.9V	7mA	2.3	2mA	50°	516-1327-ND◆	.51	3.00	20.00	HLMP-4740
		HE Red	Diffused	635nm	1.9V	30mA	7	10mA	60°	516-1328-ND◆	.36	2.04	13.20	HLMP-3301
		HE Red		635nm	1.9V	30mA	12	10mA	60°	516-1329-ND◆	.60	3.48	24.00	HLMP-3762
		Orange		600nm	1.9V	30mA	5.4	10mA	60°	516-1330-ND◆	.36	2.04	13.20	HLMP-D401

◆ **RoHS Compliant** † For Tape and Reel Part number, change the 1-ND to 2-ND * For Tape and Box Part number, change the 1-ND to 3-ND ‡ Lumens (lm) *(Continued)*

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current		Viewing Angle	Digi-Key Part No.	Pricing			Avago Part No.
											1	10	100	
8	5mm	Yellow	Diffused	583nm	2.0V	20mA	8	10mA	60°	516-1331-ND◆	.36	2.04	13.20	HLMP-3401
		Yellow	Diffused	583nm	2.0V	20mA	9.2	10mA	60°	516-1332-ND◆	.60	3.48	24.00	HLMP-3862
		Green	Diffused	565nm	2.1V	30mA	5.2	10mA	60°	516-1333-ND◆	.36	2.04	13.20	HLMP-3507
		Green	Diffused	565nm	2.1V	30mA	14	10mA	60°	516-1334-ND◆	.60	3.48	24.00	HLMP-3962
		HE Red	Tint	635nm	1.9V	30mA	60	10mA	35°	516-1335-ND◆	.36	2.04	13.20	HLMP-3316
		Yellow	Tint	583nm	2.0V	20mA	50	10mA	35°	516-1336-ND◆	.36	2.04	13.20	HLMP-3416
		Green	Tint	565nm	2.1V	30mA	70	10mA	24°	516-1337-ND◆	.36	2.04	13.20	HLMP-3519
9	5mm	Red	Water Clear	645nm	1.6V	30mA	10	1mA	24°	516-1338-ND◆	.60	3.48	24.00	HLMP-D155
		HE Red	Diffused	635nm	5.0V	20mA	8	10mA	60°	516-1339-ND◆	.72	4.20	29.25	HLMP-3600
		HE Red	Diffused	635nm	12.0V	20mA	8	13mA	60°	516-1340-ND◆	.72	4.20	29.25	HLMP-3601
		Yellow	Diffused	583nm	5.0V	20mA	8	10mA	60°	516-1341-ND◆	.72	4.20	29.25	HLMP-3650
		Yellow	Diffused	583nm	12.0V	20mA	8	13mA	60°	516-1342-ND◆	.72	4.20	29.25	HLMP-3651
		Green	Diffused	565nm	5.0V	20mA	8	10mA	60°	516-1343-ND◆	.72	4.20	29.25	HLMP-3680
		Red	Water Clear	645nm	1.8V	30mA	240	20mA	24°	516-1344-ND◆	.45	2.56	16.80	HLMP-D105
		HE Red	Water Clear	635nm	1.9V	30mA	125	20mA	24°	516-1345-ND◆	.60	3.48	24.00	HLMP-3750
		Yellow	Water Clear	583nm	2.1V	20mA	140	20mA	24°	516-1346-ND◆	.60	3.48	24.00	HLMP-3850
		Green	Water Clear	565nm	2.2V	30mA	265	20mA	24°	516-1347-ND◆	.60	3.48	24.00	HLMP-3950
10	5mm	Red	Tint	645nm	1.8V	30mA	600	20mA	15°	516-1348-ND◆	.60	3.48	24.00	HLMP-C115
		HE Red		635nm	1.9V	30mA	300	20mA	15°	516-1349-ND◆	.60	3.48	24.00	HLMP-C215
		HE Red		635nm	1.9V	30mA	170	20mA	25°	516-1350-ND◆	.60	3.48	24.00	HLMP-C223
		Orange		600nm	1.9V	30mA	300	20mA	15°	516-1351-ND◆	.60	3.48	24.00	HLMP-C415
		Yellow		583nm	2.1V	20mA	300	20mA	15°	516-1352-ND◆	.60	3.48	24.00	HLMP-C315
		Yellow	Tint	583nm	2.1V	20mA	170	20mA	25°	516-1353-ND◆	.60	3.48	24.00	HLMP-C323
		Green	Tint	568nm	2.2V	30mA	300	20mA	15°	516-1354-ND◆	.60	3.48	24.00	HLMP-C515
		Green	Tint	568nm	2.2V	30mA	170	20mA	25°	516-1355-ND◆	.60	3.48	24.00	HLMP-C523
		Green	Water Clear	524nm	3.8V	30mA	1,900 min.	20mA	15°	516-1356-ND◆	1.33	8.40	63.00	HLMP-CM15-S0000
		Green	Water Clear	524nm	3.5V	30mA	5,500 min.	20mA	15°	516-1357-ND◆	1.62	10.35	78.75	HLMP-CM15-W0000
		Green	Water Clear	524nm	3.5V	30mA	1,900 min.	20mA	30°	516-1358-ND◆	1.62	10.35	78.75	HLMP-CM30-S0000
		Green		524nm	3.8V	30mA	520 min.	20mA	30°	516-1359-ND◆	1.33	8.40	63.00	HLMP-CM30-M0000
		Blue		470nm	3.5V	30mA	1,500 min.	20mA	15°	516-1360-ND◆	1.33	8.40	63.00	HLMP-CB15-R0000
		Blue		470nm	3.8V	30mA	880 min.	20mA	15°	516-1361-ND◆	1.33	8.40	63.00	HLMP-CB15-P0000
		Blue		470nm	3.8V	30mA	310 min.	20mA	30°	516-1362-ND◆	1.33	8.40	63.00	HLMP-CB30-K0000
		Blue	Water Clear	470nm	3.8V	30mA	520 min.	20mA	30°	516-1363-ND◆	1.33	8.40	63.00	HLMP-CB30-M0000
		Red		639nm	2.0V	50mA	4,850	20mA	15°	516-1366-ND◆	.76	4.48	31.20	HLMP-ED16-TW000
		Red/Orange		623nm	2.08V	50mA	6,250	20mA	15°	516-1367-ND◆	.83	4.95	35.10	HLMP-EH16-UX000
		Red		639nm	2.0V	50mA	4,850	20mA	23°	516-1369-ND◆	.83	4.95	35.10	HLMP-ED25-TW000
		Amber		594nm	2.15V	50mA	3,700	20mA	23°	516-1370-ND◆	.80	4.76	33.15	HLMP-EL25-SV000
		Red	Water Clear	639nm	2.0V	50mA	2,850	20mA	30°	516-1371-ND◆	.80	4.76	33.15	HLMP-ED31-RU000
		Red		639nm	2.0V	50mA	3,700	20mA	30°	516-1372-ND◆	.80	4.76	33.15	HLMP-ED31-SV000
		Red/Orange		623nm	2.08V	50mA	3,700	20mA	30°	516-1373-ND	.83	4.95	35.10	HLMP-EH31-SV000
		Amber		594nm	2.15V	50mA	3,700	20mA	30°	516-1374-ND◆	.80	4.76	33.15	HLMP-EL31-SV000
		Red		635nm	1.9V	50mA	16,000	20mA	6°	516-1375-ND	.60	3.48	24.00	HLMP-EG08-WZ000
		Red	Water Clear	635nm	1.9V	50mA	21,000	20mA	6°	516-1376-ND◆	.65	3.77	26.00	HLMP-EG08-X1000
		Red		635nm	1.9V	50mA	27,000	20mA	6°	516-1377-ND◆	.69	4.06	28.00	HLMP-EG08-Y2000
		Amber		592nm	2.02V	50mA	8,700	20mA	6°	516-1378-ND◆	.60	3.48	24.00	HLMP-EL08-VY000
		Red		635nm	1.9V	50mA	3,050	20mA	15°	516-1379-ND	.60	3.48	24.00	HLMP-EG15-RU000
		Red		635nm	1.9V	50mA	1,832.5	20mA	23°	516-1380-ND◆	.51	3.00	20.00	HLMP-EG24-PS000
		Red	Water Clear	635nm	1.9V	50mA	1,395	20mA	30°	516-1381-ND◆	.60	3.48	24.00	HLMP-EG30-NR000
		Amber		592nm	2.02V	50mA	840	20mA	30°	516-1382-ND◆	.60	3.48	24.00	HLMP-EL30-LP000
		Amber		592nm	2.02V	50mA	1,832.5	20mA	30°	516-1383-ND	.65	3.77	26.00	HLMP-EL30-PS000
		Red		635nm	1.9V	50mA	6,000	20mA	8°	516-1384-ND◆	.40	2.28	15.40	HLMP-C008-U0000
		Red		635nm	1.9V	50mA	1,000	20mA	25°	516-1385-ND◆	.40	2.28	15.40	HLMP-C025-P0000
		Amber	Water Clear	594nm	1.9V	50mA	3,000	20mA	8°	516-1386-ND◆	.40	2.28	15.40	HLMP-C208-S0000
		Red		650nm	1.9V	50mA	700	20mA	25°	516-1387-ND◆	.40	2.28	15.40	HLMP-C625-P0000
		White		—	3.6V	30mA	4,850	20mA	15°	516-1468-ND◆	1.33	8.40	63.00	HLMP-CW15-TW000
		White		—	3.6V	30mA	1,690	20mA	30°	516-1469-ND◆	1.33	8.40	63.00	HLMP-CW30-PS000
		White		—	3.6V	30mA	5,500	20mA	30°	516-1709-ND◆	1.37	8.74	66.50	HLMP-CW30-SV000
11	5mm	Red	Water Clear	639nm	2.0V	50mA	4,850	20mA	23°	516-1388-ND◆	.83	4.95	35.10	HLMP-ED27-TW000
		Red		639nm	2.0V	50mA	3,700	20mA	30°	516-1390-ND	.80	4.76	33.15	HLMP-ED33-SV000
		Amber		594nm	2.15V	50mA	3,700	20mA	30°	516-1391-ND	.80	4.76	33.15	HLMP-EL33-SV000
		White		—	3.6V	30mA	1,500 min.	20mA	15°	516-1392-ND◆	1.48	9.60	70.00	HLMP-CW16-R0000
12	5mm	HE Red	Water Clear	650nm	1.8V	30mA	1,000	20mA	8°	516-1393-ND◆	.60	3.48	24.00	HLMP-4101
13	Mounting Clip and Ring, for T-1 3/4 (5mm) Lamps									516-1394-ND◆	—	1.25	10.00	HLMP-0103
14	LED Housing, Right Angle Snap-In									516-1395-ND◆	—	2.25	18.00	HLMP-5029
15	With standoff	White	Clear	—	3.2V	20mA	1,500	20mA	170°	516-1708-ND◆	1.05	7.77	65.10	HLMP-FW67-MQ000
	Without standoff			—	3.2V	20mA	1,500	20mA	170°	516-1707-ND◆	1.05	7.77	65.10	HLMP-FW66-MQ000
16	1.60mm	Amber	Water Clear	592nm	2.0V	50mA	150	20mA	125°	516-1410-ND◆	.76	4.48	31.20	HLMT-PL00
16	1.80mm	Red	Diffused	655nm	1.6V	50mA	1.2	10mA	90°	516-1396-ND◆	.60	3.48	24.00	HLMP-6000
		Red	Diffused	645nm	1.6V	30mA	1.8	1mA	90°	516-1397-ND◆	.65	3.77	26.00	HLMP-Q150
		HE Red	Diffused	635nm	1.8V	30mA	10	10mA	90°	516-1398-ND◆	.51	3.00	20.00	HLMP-6300
		HE Red	Water Clear	635nm	1.8V	30mA	40	10mA	28°	516-1399-ND◆	.51	3.00	20.00	HLMP-6305
		HE Red	Diffused	635nm	1.8V	30mA	1	2mA	90°	516-1400-ND◆	.60	3.48	24.00	HLMP-7000
		HE Red	Diffused	635nm	5.0V	30mA	2	5V	90°	516-1401-ND◆	.90	5.20	38.00	HLMP-6620
		Yellow	Diffused	583nm	2.0V	20mA	9	10mA	90°	516-1402-ND◆	.51	3.00	20.00	HLMP-6400
		Yellow	Water Clear	583nm	2.0V	20mA	20	10mA	28°	516-1403-ND◆	.51	3.00	20.00	HLMP-6405
		Yellow	Diffused	583nm	2.0V	20mA	0.6	2mA	90°	516-1404-ND◆	.60	3.48	24.00	HLMP-7019
		Green	Diffused	565nm	2.1V	30mA	7	10mA	90°	516-1405-ND◆	.51	3.00	20.00	HLMP-6500
		Green	Water Clear	565nm	2.1V	30mA	40	10mA	28°	516-1406-ND◆	.51	3.00	20.00	HLMP-6505
			Diffused	565nm	2.1V	30mA	0.6	2mA	90°	516-1407-ND◆	.60	3.48	24.00	HLMP-7040
			Diffused	565nm	5.0V	30mA	2	5V	90°	516-1408-ND◆	.90	5.20	38.00	HLMP-6820
17	TO-220-2-2	Blue	—	460nm	3.6V	350mA	10‡	350mA	120°	516-1710-5-ND◆	3.94	32.38	262.50	ASMT-MB00-NAE00
		Green	—	519nm	3.6V	350mA	40‡	350mA	120°	516-1711-5-ND◆	4.61	37.93	307.50	ASMT-MG00-NGJ00
		White	—	—	3.6V	350mA	35‡	350mA	110°	516-1712-5-ND◆	4.05	33.30	270.00	ASMT-MW00-NFI00
18	1.80mm	HE Red	Diffused	635nm	5.0V	30mA	2	5V	90°	516-1415-ND◆	1.00	6.25	46.25	HLMP-6620-F0010
		Yellow		583nm	2.0V	20mA	9	10mA	90°	516-1416-ND◆	.72	4.20	29.25	HLMP-6400-F0010
		Green		565nm	2.1V	30mA	7	10mA	90°	516-1417-ND◆	.72	4.20	29.25	HLMP-6500-F0010
		Green		565nm	5.0V	30mA	2	5V	90°	516-1418-ND◆	1.00	6.25	46.25	HLMP-6820-F0010

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current		Viewing Angle	Digi-Key Part No.	Pricing			Tape and Reel		Avago Part No.
											1	10	100	Qty.	Pricing	
19	1.60mm	Red/Orange	Water Clear	621nm	2.0V	50mA	120	20mA	125°	516-1409-1-ND◆†	.83	4.95	35.10	1,500	275.40/M	HLMT-PH00-P0011
		Amber		592nm	2.0V	50mA	150	20mA	125°	516-1411-1-ND◆†	.83	4.95	35.10	1,500	275.40/M	HLMT-PL00-P0W11
	1.80mm	Amber	Water Clear	592nm	2.0V	50mA	1,000	20mA	15°	516-1412-1-ND†	.83	4.95	35.10	1,500	275.40/M	HLMT-QL00-T0011
		Yellow		583nm	2.0V	20mA	20	10mA	28°	516-1413-1-ND†	.60	3.48	24.00	1,500	192.00/M	HLMP-6405-J0011
		Green		565nm	2.1V	30mA	40	10mA	28°	516-1414-1-ND◆†	.60	3.48	24.00	1,500	192.00/M	HLMP-6505-L0011
20	0603	HE Red/Green	Diffused	630/570nm	2.1/2.2V	20mA	10/15	20mA	120°	516-1419-1-ND◆†	.39	2.24	14.70	4,000	105.00/M	HSMF-C165
21	0603	Red	Diffused	660nm	1.8V	25mA	17	20mA	170°	516-1420-1-ND◆†	.27	1.48	9.60	4,000	64.00/M	HSMH-C190
		Red		637nm	1.9V	30mA	90	20mA	170°	516-1421-1-ND†	.45	2.56	16.80	—	—	HSMC-C190
		HE Red		630nm	2.1V	20mA	10	20mA	170°	516-1422-1-ND◆†	.27	1.48	9.60	4,000	64.00/M	HSMS-C190
		Amber		595nm	1.9V	30mA	90	20mA	170°	516-1423-1-ND◆†	.45	2.56	16.80	4,000	120.00/M	HSMA-C190
		Yellow		589nm	2.1V	20mA	8	20mA	170°	516-1424-1-ND◆†	.27	1.48	9.60	4,000	64.00/M	HSMY-C190

◆ ***RoHS Compliant*** † For Tape and Reel Part number, change the 1-ND to 2-ND * For Tape and Box Part number, change the 1-ND to 3-ND ‡ Lumens (lm) *(Continued)*

Digi-Reel® **Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.**

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current		Viewing Angle	Digi-Key Part No.	Pricing			Tape and Reel		Avago Part No.
											1	10	100	Qty.	Pricing	
21	0603	Green	Diffused	570nm	2.2V	20mA	15	20mA	170°	516-1425-1-ND◆†	.27	1.48	9.60	4,000	64.00/M	HSMG-C190
		Blue		428nm	3.8V	20mA	6	20mA	170°	516-1426-1-ND◆†	.98	6.25	45.00	4,000	350.00/M	HSMB-C190
22	0805	Red	Diffused	660nm	1.8V	25mA	17	20mA	170°	516-1427-1-ND◆†	.27	1.48	9.60	4,000	64.00/M	HSMH-C170
		Red		637nm	1.9V	30mA	90	20mA	170°	516-1428-1-ND◆†	.43	2.48	16.80	4,000	120.00/M	HSMC-C170
		HE Red		630nm	2.1V	20mA	10	20mA	170°	516-1429-1-ND◆†	.27	1.48	9.60	4,000	64.00/M	HSMS-C170
		Red		630nm	1.9V	30mA	50	20mA	165°	516-1430-1-ND◆†	.66	3.92	27.30	—	—	HSMC-S670
		Amber		595nm	1.9V	30mA	90	20mA	170°	516-1431-1-ND†	.43	2.48	16.80	4,000	120.00/M	HSMA-C170
		Amber	Diffused	592nm	1.9V	30mA	65	20mA	165°	516-1432-1-ND◆†	.66	3.92	27.30	—	—	HSMA-S670
		Yellow		589nm	2.1V	20mA	8	20mA	170°	516-1433-1-ND◆†	.27	1.48	9.60	4,000	64.00/M	HSMY-C170
		Green		570nm	2.2V	20mA	15	20mA	170°	516-1434-1-ND◆†	.27	1.48	9.60	4,000	64.00/M	HSMG-C170
		Green		523nm	3.3V	20mA	120	20mA	170°	516-1435-1-ND◆†	.85	5.63	43.25	4,000	343.75/M	HSMM-C170
		Blue		469nm	3.4V	25mA	55	20mA	140°	516-1445-1-ND◆†	.61	4.05	31.14	4,000	247.50/M	HSMR-C170
		Blue	Diffused	468nm	3.3V	20mA	35	20mA	170°	516-1437-1-ND◆†	.61	4.05	31.14	4,000	247.50/M	HSMN-C170
		Blue		428nm	3.8V	20mA	6	20mA	170°	516-1438-1-ND◆†	.98	6.25	45.00	4,000	350.00/M	HSMB-C170
23	1206	Red	Diffused	660nm	1.8V	30mA	17	20mA	170°	516-1439-1-ND◆†	.25	1.40	9.00	3,000	64.00/M	HSMH-C150
		HE Red		630nm	2.1V	25mA	10	20mA	170°	516-1440-1-ND◆†	.25	1.40	9.00	3,000	64.00/M	HSMS-C150
		Orange		605nm	2.2V	25mA	8	20mA	170°	516-1441-1-ND†	.25	1.40	9.00	3,000	64.00/M	HSMD-C150
		Yellow		589nm	2.1V	25mA	8	20mA	170°	516-1442-1-ND◆†	.25	1.40	9.00	3,000	64.00/M	HSMY-C150
		Green		570nm	2.2V	25mA	15	20mA	170°	516-1443-1-ND◆†	.25	1.40	9.00	3,000	64.00/M	HSMG-C150
		Green	Diffused	520nm	3.4V	25mA	145	20mA	140°	516-1444-1-ND◆†	.85	5.63	43.25	3,000	350.00/M	HSMQ-C150
		Blue		469nm	3.4V	25mA	55	20mA	140°	516-1436-1-ND◆†	.61	4.05	31.14	3,000	252.00/M	HSMR-C150
		Blue		468nm	3.3V	20mA	35	20mA	170°	516-1446-1-ND◆†	.61	4.05	31.14	3,000	252.00/M	HSMN-C150
		Blue		428nm	3.8V	20mA	6	20mA	170°	516-1447-1-ND◆†	.98	6.25	45.00	3,000	356.25/M	HSMB-C150
24	1206 Right Angle	Red	Diffused	660nm	1.8V	30mA	19	20mA	130°	516-1448-1-ND†	.25	1.40	9.00	3,000	64.00/M	HSMH-C110
		HE Red	Diffused	630nm	2.1V	25mA	11	20mA	130°	516-1449-1-ND◆†	.25	1.40	9.00	3,000	64.00/M	HSMS-C110
		Amber	Water Clear	595nm	1.9V	30mA	95	20mA	130°	516-1450-1-ND◆†	.46	2.70	18.00	—	—	HSMA-C110
		Yellow	Diffused	589nm	2.1V	25mA	9	20mA	130°	516-1451-1-ND◆†	.25	1.40	9.00	3,000	64.00/M	HSMY-C110
		Green	Diffused	570nm	2.2V	25mA	16	20mA	130°	516-1452-1-ND◆†	.25	1.40	9.00	3,000	64.00/M	HSMG-C110
25	1208 Right Angle	Green	Water Clear	570nm	2.2V	25mA	9	20mA	155°	516-1454-1-ND◆†	.46	2.70	18.00	—	—	HSMG-C660
		Green		568nm	2.2V	25mA	13.3	20mA	125°	516-1726-1-ND◆† ***NEW!***	.36	2.04	13.20	3,000	96.00/M	HSMG-C680
		Red		657nm	1.8V	25mA	30.7	20mA	125°	516-1727-1-ND◆† ***NEW!***	.36	2.04	13.20	3,000	96.00/M	HSMH-C680
		HE Red		636nm	2.0V	25mA	5.1	20mA	125°	516-1728-1-ND◆† ***NEW!***	.36	2.04	13.20	3,000	96.00/M	HSMS-C680
26	1210	HE Red/Green	Diffused	630/570nm	2.1/2.2V	25mA	10/15	20mA	170°	516-1456-1-ND◆†	.39	2.24	14.70	3,000	108.50/M	HSMF-C155
		Yellow/Green		589/570nm	2.1/2.2V	25mA	8/15	20mA	170°	516-1457-1-ND◆†	.39	2.24	14.70	3,000	108.50/M	HSMF-C156
27	Rectangular 3.20mm x 2.80mm	Red	Water Clear	639nm	2.2V	30mA	400	20mA	120°	516-1459-1-ND◆†	.63	3.63	25.00	2,000	191.25/M	HSMZ-A100-R00J1
		Amber		594nm	2.2V	30mA	270	20mA	120°	516-1460-1-ND◆†	.60	3.48	24.00	2,000	186.00/M	HSMU-A100-R00J1
		Yellow/Green		565nm	2.2V	30mA	18	20mA	120°	516-1462-1-ND◆†	.27	1.43	9.12	2,000	64.60/M	HSMG-A100-J02J1
		Green		523nm	3.4V	30mA	350	20mA	120°	516-1463-1-ND◆†	1.29	7.94	59.58	2,000	479.95/M	HSMM-A100-S00J1
		Blue		468nm	3.4V	30mA	70	20mA	120°	516-1464-1-ND◆†	1.08	6.75	49.95	2,000	391.50/M	HSMN-A100-P00J1
28	Rectangular 3.40mm x 1.25mm	Red	Water Clear	637nm	1.9V	25mA	75	20mA	170°	516-1465-1-ND◆†	.41	2.40	16.00	3,000	120.00/M	HSMC-C265
		Amber		595nm	1.9V	25mA	75	20mA	170°	516-1466-1-ND◆†	.41	2.40	16.00	3,000	120.00/M	HSMA-C265
		Green		570nm	2.2V	25mA	15	20mA	170°	516-1467-1-ND◆†	.40	2.28	15.40	3,000	108.50/M	HSMG-C265
29	Without Standoff	Blue	Diffused	470nm	3.3V	30mA	1,500	20mA	80°/30°	516-1694-1-ND◆*	1.48	9.12	68.40	2,000	551.00/M	HLMP-AB86-MQ0ZZ
	With Standoff			470nm	3.3V	30mA	1,500	20mA	80°/30°	516-1695-ND◆	.93	6.85	57.35	—	—	HLMP-AB87-MQ000
	Without Standoff	Green	Diffused	525nm	3.2V	30mA	7,200	20mA	80°/30°	516-1696-1-ND◆*	1.48	9.12	68.40	2,000	551.00/M	HLMP-AM86-TW0ZZ
	With Standoff			525nm	3.2V	30mA	7,200	20mA	80°/30°	516-1697-ND◆	.93	6.85	57.35	—	—	HLMP-AM87-TW000

◆ ***RoHS Compliant*** † For Tape and Reel Part number, change the 1-ND to 2-ND * For Tape and Box Part number, change the 1-ND to 3-ND ‡ Lumens (lm)

Smart Displays

Dimensions in mm

Fig. 1

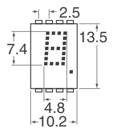

Fig. 2

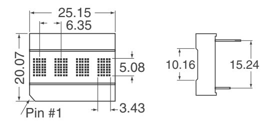

Fig. 3

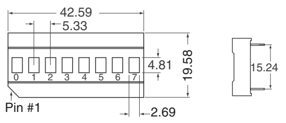

Fig. 4

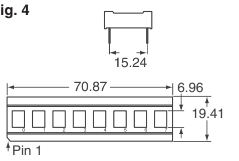

Fig.5

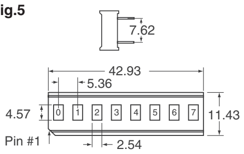

Fig. 6

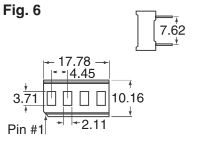

Fig. 7

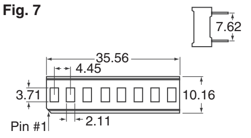

Fig. 8

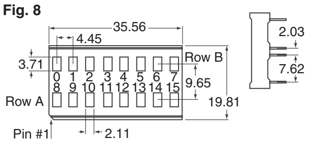

Fig. 9

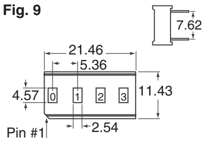

Fig. 10

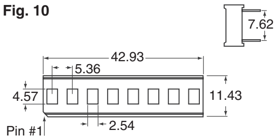

Fig.	No. of Char.	Color	Peak Length (nm)	Char. Height (in.)	Char. Format	Luminous Intensity	Digi-Key Part No.	Price Each			Avago Part No.
								1	10	100	
Numeric — RoHS Compliant											
1	1	HE Red	635	0.290	1	140 µcd	516-1154-ND	34.83	28.58	25.01	HDSP-0760
Hexadecimal — RoHS Compliant											
1	1	HE Red	635	0.290	1	140 µcd	516-1155-ND	36.31	29.80	26.07	HDSP-0762
		HE Red	635	0.290	1	620 µcd	516-1156-ND	36.31	29.80	26.07	HDSP-0772
		Green	568	0.290	1	1,100 µcd	516-1157-ND	31.47	25.83	22.60	HDSP-0962
7-Bit Parallel — RoHS Compliant											
2	4	HE Red	635	0.200	4.0 x 1	3.50 mcd	516-1158-5-ND	18.67	15.12	12.67	HDLO-2416
		Yellow	583	0.200	4.0 x 1	3.70 mcd	516-1159-5-ND	18.67	15.12	12.67	HDLY-2416
		Green	568	0.200	4.0 x 1	5.60 mcd	516-1160-5-ND	18.67	15.12	12.67	HDLG-2416
		Red	645	0.200	4.0 x 1	3.10 mcd	516-1693-ND	24.70	18.28	15.32	HDLU-2416
8-Bit Parallel											
3	8	HE Red	635	0.189	8.0 x 1	7.50 mcd	516-1161-5-ND◆	34.40	28.23	24.70	HDSP-2112
		Yellow	583	0.189	8.0 x 1	7.50 mcd	516-1162-5-ND◆	34.40	28.23	24.70	HDSP-2111
		Green	568	0.189	8.0 x 1	7.50 mcd	516-1163-5-ND◆	34.40	28.23	24.70	HDSP-2113
4	8	HE Red	635	0.270	8.0 x 1	7.50 mcd	516-1164-5-ND◆	40.66	33.17	29.43	HDSP-2502
		Green	568	0.270	8.0 x 1	7.50 mcd	516-1165-5-ND	40.66	33.17	29.43	HDSP-2503
5	8	Red	645	0.180	8.0 x 1	25.0 mcd	516-1166-5-ND◆	36.08	29.60	25.90	HDSP-2534
		HE Red	635	0.180	8.0 x 1	7.50 mcd	516-1167-5-ND◆	32.57	26.72	23.38	HDSP-2532
		Yellow	583	0.180	8.0 x 1	7.50 mcd	516-1168-5-ND◆	32.57	26.72	23.38	HDSP-2531
		Green	568	0.180	8.0 x 1	7.50 mcd	516-1169-5-ND◆	32.57	26.72	23.38	HDSP-2533

Fig.	No. of Char.	Color	Peak Length (nm)	Char. Height (in.)	Char. Format	Luminous Intensity	Digi-Key Part No.	Price Each			Avago Part No.
								1	10	100	
Serial Input											
6	4	HE Red	635	0.146	4.0 x 1	64 µcd	516-1171-5-ND◆	21.32	17.38	14.93	HCMS-2902
		Yellow	583	0.146	4.0 x 1	64 µcd	516-1172-5-ND◆	21.32	17.38	14.93	HCMS-2901
		Green	568	0.146	4.0 x 1	114 µcd	516-1173-5-ND◆	21.32	17.38	14.93	HCMS-2903
7	8	HE Red	635	0.146	8.0 x 1	64 µcd	516-1174-5-ND◆	31.26	25.65	22.45	HCMS-2912
		Yellow	583	0.146	8.0 x 1	64 µcd	516-1175-5-ND◆	31.26	25.65	22.45	HCMS-2911
		Green	568	0.146	8.0 x 1	114 µcd	516-1176-5-ND◆	31.26	25.65	22.45	HCMS-2913
		Red	645	0.150	5.0 x 7	230 µcd	516-1605-5-ND◆	44.75	33.12	27.75	HCMS-2915
8	16	HE Red	635	0.146	8.0 x 2	64 µcd	516-1177-5-ND	64.12	53.43	47.20	HCMS-2922
		Yellow	583	0.146	8.0 x 2	64 µcd	516-1178-5-ND◆	64.12	53.43	47.20	HCMS-2921
		Green	568	0.146	8.0 x 2	114 µcd	516-1179-5-ND◆	64.12	53.43	47.20	HCMS-2923
9	4	HE Red	635	0.180	4.0 x 1	64 µcd	516-1180-5-ND◆	21.94	17.89	15.36	HCMS-2962
		Yellow	583	0.180	4.0 x 1	64 µcd	516-1181-5-ND	21.94	17.89	15.36	HCMS-2961
		Green	568	0.180	4.0 x 1	114 µcd	516-1182-5-ND◆	21.94	17.89	15.36	HCMS-2963
		Red	645	0.200	5.0 x 7	230 µcd	516-1606-5-ND◆	30.25	22.39	18.76	HCMS-2965
10	8	HE Red	635	0.180	8.0 x 1	64 µcd	516-1183-5-ND◆	32.57	26.72	23.38	HCMS-2972
		Yellow	583	0.180	8.0 x 1	64 µcd	516-1184-5-ND◆	32.57	26.72	23.38	HCMS-2971
		Green	568	0.180	8.0 x 1	114 µcd	516-1185-5-ND◆	32.57	26.72	23.38	HCMS-2973
		Red	645	0.200	5.0 x 7	230 µcd	516-1607-5-ND◆	46.25	34.23	28.68	HCMS-2975

◆ ***RoHS Compliant***

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Surface Mount LEDs

The chip LEDs have thin, compact features available for surface mount technology. Super bright with wide viewing angle and is suitable for compact and multi-function equipment. **Features:** • Compact and thin package • Super bright • High reliability • Surface mount technology available • Wide product range **Cleaning:** Avoid using organic solvents. The surface of the LED may change when organic solvents such as trichloroethylene and acetone come in contact with the surface of the LED.

Fig. 1 — 0603 (1608) Leadless-USS Type

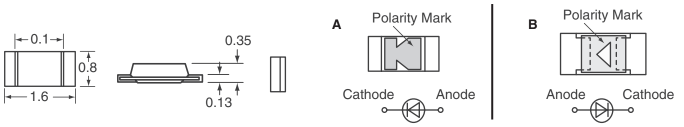

Fig. 2 — 0603 (1608) Leadless-SS Type

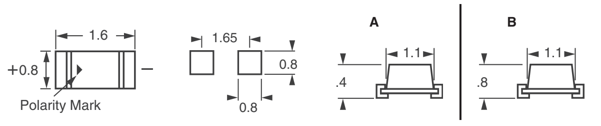

Fig. 3 — 0603 (1608) Leadless-TSS Type

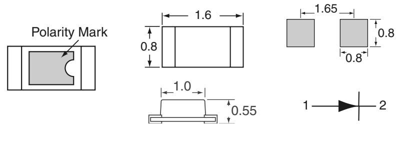

Fig. 4 — 0603 Leadless-Lo-Profile

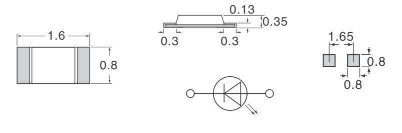

Fig. 5 — J-Lead-S Type

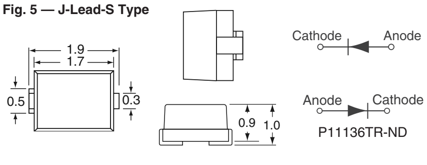

Fig. 6 — Gull Wing-S Type

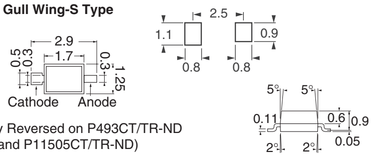

(Polarity Reversed on P493CT/TR-ND and P11505CT/TR-ND)

Fig. 7 — 1206 (3216) LeadlessType

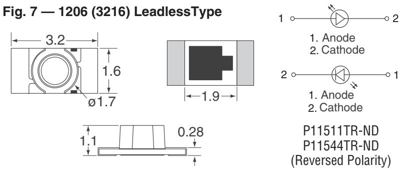

P11511TR-ND
P11544TR-ND
(Reversed Polarity)

Fig. 8 — 1206 (3216) Leadless Type, 30° Dome Lens

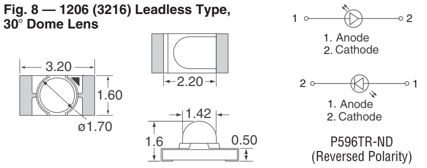

P596TR-ND
(Reversed Polarity)

Fig. 9 — Leadless-Side View

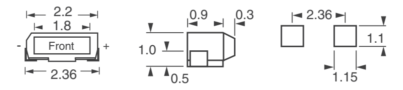

(P11139TR-ND Polarity Reversed)

Fig. 10 — Leadless-Side View *NEW!*

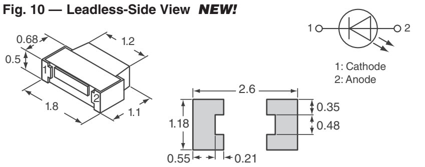

Fig. 11 — Gull Wing-GW Type

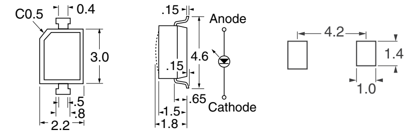

Fig. 12 — J-Lead-S Type

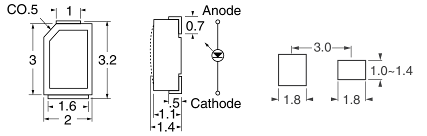

Fig. 13 — TSS Bi-Color Type

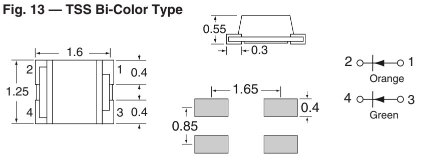

Fig. 14 — Gull Wing-S Type (Bi-Color)

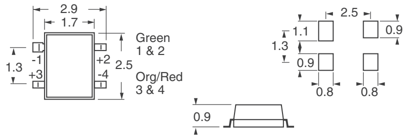

Fig. 15 — Gull Wing-GW Type (Bi-Color)

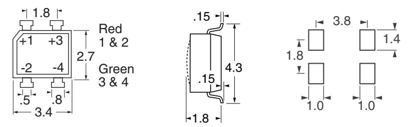

Fig. 16 — Dome Lens (Bi-Color)

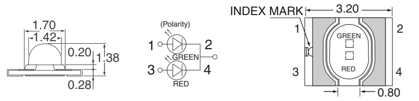

Fig. 17 — Side View Leadless

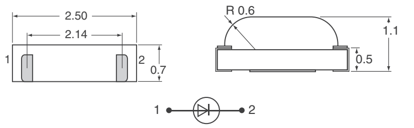

Fig. 18 — Side View Leadless (Bi-Color)

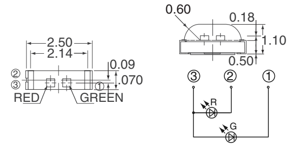

Fig. 19 — TSS Tri-Color Type

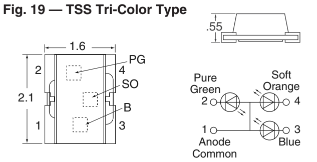

Fig. 20 — Tri-Color Leadless

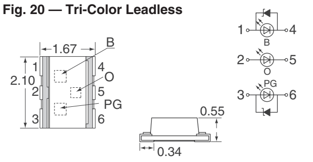

Fig. 21 — Tri-Color Leadless

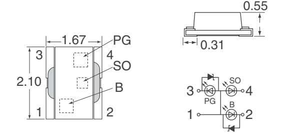

Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings				Io		Rated	VF(V)		λP	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel		Panasonic
				(mW) PD	(mA) IF	(V) VR	(°C) Topr	(mcd) Typ.	(mcd) Min.	(mA) IF	Typ.	Max.	Typ.	Part No.	1	10	100	Part No.	Qty.	Pricing	Part No.
0603 (1608) Leadless USS Type Height=0.35mm — RoHS Compliant																					
1A	Amber	Yellow Diffused	InGaAIP	25	10	4	-30 ~ 85	16	4	5	1.95	2.5	589	P13488CT-ND	.42	.34	.24	P13488TR-ND	5,000	103.00/M	LNJ414K82RA
	Orange	Red Diffused	InGaAIP	40	15	4	-30 ~ 85	15	7	5	1.90	2.5	620	P13489CT-ND	.42	.34	.24	P13489TR-ND	5,000	103.00/M	LNJ814W83RA
	Yellow Green	Green Diffused	InGaAIP	40	15	4	-30 ~ 85	17	10.2	10	2.05	2.5	575	P13485CT-ND	.42	.34	.24	P13485TR-ND	5,000	103.00/M	LNJ326W83RA
	White	White Diffused	GaN	40	10	5	-30 ~ 85	80	36	5	3.10	3.7	—	P13483CT-ND	.77	.65	.52	P13483TR-ND	5,000	327.00/M	LNJ026X8BRA1
	Orange	Red Diffused	InGaAIP	45	20	4	-30 ~ 85	19	11.5	5	1.90	2.1	620	P13487CT-ND	.42	.34	.24	P13487TR-ND	5,000	103.00/M	LNJ826W83RA
	Soft Orange	Yellow Diffused	InGaAIP	55	20	4	-30 ~ 85	16.9	13.5	10	1.92	2.5	610	P13486CT-ND	.42	.34	.24	P13486TR-ND	5,000	103.00/M	LNJ826W86RA
	Blue	White Diffused	InGaN	70	20	5	-30 ~ 85	11.5	5	5	2.90	3.15	465	P13484CT-ND	.51	.39	.29	P13484TR-ND	5,000	163.00/M	LNJ926W8CRA
1B	Amber	Yellow Diffused	InGaAIP	40	15	4	-30 ~ 85	35	12	10	2.05	2.5	595	P13681CT-ND	.34	.31	.29	P13681TR-ND	5,000	106.00/M	LNJ426W83RA
	Pure Green	Green Diffused	InGaN	70	20	5	-30 ~ 85	40	15	5	2.90	3.25	520	P13497CT-ND	1.15	1.06	.96	P13497TR-ND	5,000	362.00/M	LNJ626W8CRA
0603 (1608) Leadless Height=0.4mm — RoHS Compliant																					
2A	High Bright Red	Red Diffused	GaAIAs	40	15	3	-30 ~ 85	6.7	2.2	10	1.72	2.5	655	P11461CT-ND	.38	.34	.31	P11461TR-ND	5,000	113.00/M	LNJ214R8ARA
	Orange	Red Diffused	GaAsP	40	15	3	-30 ~ 85	1	0.5	10	1.93	2.6	630	P11462CT-ND	.35	.32	.29	P11462TR-ND	5,000	104.00/M	LNJ814R8DRA
	Soft Orange	Yellow Diffused	GaAsP	40	15	3	-30 ~ 85	1	0.5	10	1.93	2.6	610	P11463CT-ND	.35	.32	.29	P11463TR-ND	5,000	104.00/M	LNJ814K8SRA
	Amber	Yellow Diffused	GaAsP	40	15	3	-30 ~ 85	1.5	0.6	10	2	2.6	590	P11464CT-ND	.35	.32	.29	P11464TR-ND	5,000	104.00/M	LNJ414K8YRA
	Yellow Green	Green Diffused	GaP	40	15	4	-30 ~ 85	5	1.8	10	2.03	2.6	565	P11465CT-ND	.32	.29	.26	P11465TR-ND	5,000	95.00/M	LNJ314G8TRA

◆ ***RoHS Compliant*** * Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type *(Continued)*

Panasonic Surface Mount LEDs *(Cont.)*

Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings				Io		Rated	VF(V)		λP	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel		Panasonic
				(mW) PD	(mA) IF	(V) VR	(°C) Topr	(mcd) Typ.	(mcd) Min.	(mA) IF	Typ.	Max.	Typ.	Part No.	1	10	100	Part No.	Qty.	Pricing	Part No.
Ultra Bright InGaAlP LED																					
2A	Ultra Bright Red	Red Diffused	InGaAlP	40	15	4	-30 ~ 85	15	8	10	1.92	2.5	645	P11466CT-ND	.44	.37	.30	P11466TR-ND	5,000	110.25/M	LNJ214R82RA
	Orange	Red Diffused	InGaAlP	40	15	4	-30 ~ 85	32	17	10	2.03	2.5	630	P11467CT-ND	.56	.53	.48	—	—	—	LNJ814R83RA
	Orange	Red Diffused	InGaAlP	40	15	4	-30 ~ 85	30	16	10	1.95	2.5	620	P11468CT-ND	.45	.36	.27	P11468TR-ND	5,000	114.05/M	LNJ814R88RA
	Soft Orange	Yellow Diffused	InGaAlP	40	15	4	-30 ~ 85	21	8.7	10	1.95	2.5	615	P11469CT-ND	.42	.34	.24	P11469TR-ND	5,000	102.56/M	LNJ814K87RA
	Amber	Yellow Diffused	InGaAlP	40	15	4	-30 ~ 85	26	14	10	2.1	2.5	595	P11470CT-ND	.45	.36	.27	P11470TR-ND	5,000	114.05/M	LNJ414K84RA
	Yellow Green	Green Diffused	InGaAlP	40	15	4	-30 ~ 85	12	6.4	10	2.03	2.5	575	P11471CT-ND	.42	.34	.24	P11471TR-ND	5,000	102.56/M	LNJ314G83RA
0603 (1608) Leadless Height=0.8mm — RoHS Compliant																					
2B	High Bright Red	Red Diffused	GaAlAs	50	20	3	-30 ~ 85	6.7	2.2	10	1.72	2.5	660	P524CT-ND	.33	.31	.28	P524TR-ND	4,000	114.00/M	LNJ208R8ARA
	Orange	Orange Diffused	GaAsP	30	10	3	-30 ~ 85	1.1	0.4	5	1.8	2.4	630	P523CT-ND*	.33	.31	.28	P523TR-ND*	4,000	104.00/M	LNJ808R8ERA
	Soft Orange	Yellow Diffused	GaAsP	50	20	3	-30 ~ 85	1	0.4	10	1.93	2.6	610	P11132CT-ND	.33	.31	.28	P11132TR-ND	4,000	104.00/M	LNJ808K8SRA
	Amber	Yellow Diffused	GaAsP	50	20	4	-30 ~ 85	1.5	0.6	10	2	2.6	590	P11129CT-ND	.33	.31	.28	P11129TR-ND	4,000	104.00/M	LNJ408K8YRA
	Amber	Yellow Diffused	GaAsP	30	10	4	-30 ~ 85	0.9	0.4	5	1.9	2.4	590	P522CT-ND*	.33	.31	.28	P522TR-ND*	4,000	104.00/M	LNJ408K8ZRA
	Yellow Green	Green Diffused	GaP	50	20	4	-30 ~ 85	5	1.8	10	2.03	2.6	565	P525CT-ND	.33	.31	.28	P525TR-ND	4,000	95.00/M	LNJ308G8TRA
	Yellow Green	Green Diffused	GaP	30	10	4	-30 ~ 85	2.1	0.7	5	1.9	2.4	565	P521CT-ND*	.33	.31	.28	P521TR-ND*	4,000	95.00/M	LNJ308G8LRA
	Pure Green	Green Diffused	GaP	50	20	4	-25 ~ 85	0.7	0.25	10	2.03	2.6	555	P11485CT-ND	.35	.32	.29	P11485TR-ND	4,000	114.00/M	LNJ308G8PRA
Ultra Bright InGaAlP LED																					
2B	Ultra Bright Red	Red Diffused	InGaAlP	55	20	4	-25 ~ 85	15	8	10	1.92	2.5	645	P11486CT-ND	.44	.37	.30	P11486TR-ND	4,000	117.60/M	LNJ208R82RA
	Orange	Red Diffused	InGaAlP	55	20	4	-25 ~ 85	32	17	10	2.03	2.5	630	P11487CT-ND	.42	.34	.24	P11487TR-ND	4,000	108.97/M	LNJ808R83RA
	Orange	Red Diffused	InGaAlP	50	20	4	-25 ~ 85	6.5	2.5	10	1.9	2.3	620	P11131CT-ND	.45	.36	.27	P11131TR-ND	4,000	118.97/M	LNJ808R88RA
	Soft Orange	Yellow Diffused	InGaAlP	55	20	4	-25 ~ 85	21	7	10	1.95	2.5	615	P11488CT-ND	.42	.34	.24	P11488TR-ND	4,000	108.97/M	LNJ808K87RA
	Amber	Yellow Diffused	InGaAlP	50	20	4	-25 ~ 85	10.5	4	10	2	2.3	595	P11130CT-ND	.45	.36	.27	P11130TR-ND	4,000	118.97/M	LNJ408K84RA
	Yellow Green	Green Diffused	InGaAlP	55	20	4	-25 ~ 85	12	6.4	10	2.03	2.5	575	P11489CT-ND	.42	.34	.24	P11489TR-ND	4,000	108.97/M	LNJ308G83RA
0603 (1608) Leadless Height=0.55mm — RoHS Compliant																					
3	High Bright Red	Red Diffused	GaAlAs	50	20	3	-30 ~ 85	6.7	2.2	10	1.72	2.5	655	P11133CT-ND	.33	.31	.28	P11133TR-ND	5,000	104.00/M	LNJ212R8ARA
	Orange	Orange Diffused	GaAsP	50	20	3	-30 ~ 85	1	0.4	10	1.93	2.6	630	P11594CT-ND	.32	.29	.26	P11594TR-ND	5,000	95.00/M	LNJ812R8DRA
	Soft Orange	Yellow Diffused	GaAsP	50	20	3	-30 ~ 85	1	0.5	10	1.93	2.6	610	P11472CT-ND	.32	.29	.26	P11472TR-ND	5,000	95.00/M	LNJ812K8SRA
	Amber	Yellow Diffused	GaAsP	50	20	4	-30 ~ 85	1.5	0.6	5	2	2.6	590	P11135CT-ND	.33	.31	.28	P11135TR-ND	5,000	95.00/M	LNJ412K8YRA
	Yellow Green	Green Diffused	GaP	50	20	4	-30 ~ 85	5	1.8	5	2.03	2.6	565	P11134CT-ND	.33	.31	.28	P11134TR-ND	5,000	86.00/M	LNJ312G8TRA
	Yellow Green	Green Diffused	GaP	30	10	4	-30 ~ 85	3	1.8	10	1.9	2.4	565	P11473CT-ND	.29	.26	.24	P11473TR-ND	5,000	86.00/M	LNJ312G8LRA
Ultra Bright InGaAlP / GaN LED																					
3	Red	Red Diffused	InGaAlP	55	20	4	-30 ~ 85	15	8	10	1.92	2.5	645	P11475CT-ND	.44	.37	.30	P11475TR-ND	5,000	110.25/M	LNJ212R82RA
	Orange	Red Diffused	InGaAlP	55	20	4	-30 ~ 85	32	17	10	2.03	2.5	630	P11476CT-ND	.42	.34	.24	P11476TR-ND	5,000	102.56/M	LNJ812R83RA
	Orange	Red Diffused	InGaAlP	55	20	4	-30 ~ 85	30	16	10	1.95	2.5	620	P11477CT-ND	.45	.36	.27	P11477TR-ND	5,000	114.05/M	LNJ812R88RA
	Soft Orange	Yellow Diffused	InGaAlP	55	20	4	-30 ~ 85	21	7	10	1.95	2.5	615	P11478CT-ND	.42	.34	.24	P11478TR-ND	5,000	102.56/M	LNJ812K87RA
	Amber	Yellow Diffused	InGaAlP	55	20	4	-30 ~ 85	26	14	10	2.1	2.5	595	P11479CT-ND	.45	.36	.27	P11479TR-ND	5,000	114.05/M	LNJ412K84RA
	Yellow Green	Green Diffused	InGaAlP	55	20	4	-30 ~ 85	12	6.4	20	2.03	2.5	575	P11480CT-ND	.42	.34	.24	P11480TR-ND	5,000	102.56/M	LNJ312G83RA
	Pure Green	White Diffused	GaN	40	10	5	-25 ~ 85	34	10.3	5	3	3.7	525	P11481CT-ND	.87	.66	.50	P11481TR-ND	5,000	277.89/M	LNJ612W8WRA
	Blue	White Diffused	GaN	40	10	5	-25 ~ 85	8.5	3.2	5	3.2	3.7	470	P11482CT-ND	.92	.77	.62	P11482TR-ND	2,000	409.24/M	LNJ912W8BRA
	White	White Diffused	GaN	40	10	5	-30 ~ 85	76	47	10	3.2	3.7	—	P12023CT-ND	4.91	4.58	4.15	—	—	—	LNJ012X8BRA
0603 Leadless Lo-Profile — RoHS Compliant																					
4	White Light	White Diffused	GaN	27	7	5	-30 ~ 85	25	13	5	3.1	3.7	—	P12022CT-ND	4.91	4.58	4.15	—	—	—	LNJ026X8BRA
0805 (2012) J-Lead S-J Type 2mm pitch Taping																					
5	Red	Red Diffused	GaP	60	20	4	-25 ~ 85	0.4	0.15	10	2.03	2.6	700	P11490CT-ND◆	.33	.30	.27	P11490TR-ND◆	6,000	99.00/M	LNJ206R5RRX
	High Bright Red	Red Diffused	GaAlAs	60	20	3	-25 ~ 85	5	1.7	10	1.72	2.5	660	P11136CT-ND◆	.33	.31	.28	P11136TR-ND◆	6,000	113.00/M	LNJ206R5ARA
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25 ~ 85	0.8	0.3	10	1.93	2.6	610	P11491CT-ND	.35	.32	.29	P11491TR-ND	6,000	104.00/M	LNJ806K5SRX
	Amber	Yellow Diffused	GaAsP	60	20	4	-25 ~ 85	1	0.4	10	2	2.6	590	P11492CT-ND	.35	.32	.29	P11492TR-ND	6,000	104.00/M	LNJ406K5YRX
	Yellow Green	Green Diffused	GaP	60	20	4	-25 ~ 85	2.6	0.9	10	2.03	2.6	565	P11137CT-ND◆	.33	.31	.28	P11137TR-ND◆	6,000	99.00/M	LNJ306G5URA
	Pure Green	Green Diffused	GaP	60	20	4	-25 ~ 85	0.65	0.25	10	2.03	2.6	555	P11493CT-ND◆	.38	.34	.31	P11493TR-ND◆	6,000	113.00/M	LNJ306G5PRX
Ultra Bright InGaAlP LED																					
5	Orange	Red Diffused	InGaAlP	50	20	4	-25 ~ 85	5	2	10	1.9	2.3	620	P11494CT-ND	.52	.42	.32	P11494TR-ND	6,000	133.24/M	LNJ806R58RX
	Amber	Yellow Diffused	InGaAlP	50	20	4	-25 ~ 85	8.5	3.5	10	2	2.3	595	P11495CT-ND	.52	.42	.32	P11495TR-ND	6,000	133.24/M	LNJ406K54RX
0805 (2012) J-Lead S-J Type 4mm pitch Taping																					
5	Red	Red Diffused	GaP	60	20	4	-25 ~ 85	0.4	0.15	10	2.03	2.6	700	P11496CT-ND◆	.33	.30	.27	P11496TR-ND◆	3,000	108.00/M	LNJ206R5RUX
	High Bright Red	Red Diffused	GaAlAs	60	20	3	-25 ~ 85	5	1.7	5	1.72	2.5	660	P11497CT-ND◆	.38	.34	.31	P11497TR-ND◆	3,000	124.00/M	LNJ206R5AUX
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25 ~ 85	0.8	0.3	10	1.93	2.6	610	P11498CT-ND	.35	.32	.29	P11498TR-ND	3,000	114.00/M	LNJ806K5SUX
	Amber	Yellow Diffused	GaAsP	60	20	4	-25 ~ 85	1	0.4	10	2	2.6	590	P11499CT-ND◆	.35	.32	.29	P11499TR-ND◆	3,000	114.00/M	LNJ406K5YUX
	Yellow Green	Green Diffused	GaP	60	20	4	-25 ~ 85	3.5	1.35	10	2.03	2.6	565	P11500CT-ND◆	.33	.30	.27	P11500TR-ND◆	3,000	108.00/M	LNJ306G5UUX
	Pure Green	Green Diffused	GaP	60	20	4	-25 ~ 85	0.65	0.25	10	2.03	2.6	555	P11501CT-ND◆	.38	.34	.31	P11501TR-ND◆	3,000	124.00/M	LNJ306G5PUX
Ultra Bright InGaAlP / GaN LED																					
5	Orange	Red Diffused	InGaAlP	50	20	4	-25 ~ 85	5	2	10	1.9	2.3	620	P11502CT-ND	.52	.42	.32	P11502TR-ND	3,000	138.99/M	LNJ806R58UX
	Amber	Yellow Diffused	InGaAlP	50	20	4	-25 ~ 85	8.5	3.5	10	2	2.3	595	P11503CT-ND	.52	.42	.32	P11503TR-ND	3,000	138.99/M	LNJ406K54UX
	Blue	White Diffused	GaN	40	10	5	-25 ~ 85	5.5	2	5	3.2	3.7	470	P11504CT-ND◆	4.15	3.90	3.64	P11504TR-ND◆	3,000	1895.00/M	LNJ906W5BUX
0805 (2012) Gull Wing S-GW Type 2mm pitch Taping — RoHS Compliant																					
6	Red	Red Diffused	GaP	60	20	4	-25 ~ 85	0.4	0.15	10	2.03	2.6	700	P490CT-ND	—	.31	.28	P490TR-ND	6,000	99.00/M	LN1271RTR
	Ultra Bright Red	Red Diffused	GaAlAs	60	20	3	-25 ~ 85	5	1.7	10	1.72	2.5	660	P493CT-ND	—	.41	.37	P493TR-ND	6,000	113.00/M	LN1271RALTR
	Orange	Red Diffused	GaAsP	30	10	3	-30 ~ 85	1	0.4	5	1.8	2.4	630	P518CT-ND	.33	.31	.28	P518TR-ND	6,000	119.00/M	LN1871SRTR
0805 (2012) Gull Wing S-GW Type 2mm pitch Taping — RoHS Compliant																					
6	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25 ~ 85	0.8	0.3	10	1.93	2.6	610	P492CT-ND	—	.31	.29	P492TR-ND	6,000	104.00/M	LN1871Y5TR
	Amber	Yellow Diffused	GaAsP	60	20	4	-25 ~ 85	1	0.4	10	2	2.6	590	P11125CT-ND	.36	.33	.30	P11125TR-ND	6,000	104.00/M	LN1471YTR
	Amber	Yellow Diffused	GaAsP	30	10	4	-30 ~ 85	1	0.4	5	1.9	2.4	590	P517CT-ND*	.33	.31	.28	P517TR-ND*	6,000	119.00/M	LN1471SYTR
	Yellow Green	Green Diffused	GaP	60	20	4	-25 ~ 85	2.6	0.9	10	2.03	2.6	565	P491CT-ND	—	.31	.28	P491TR-ND	6,000	99.00/M	LN1371GTR
	Yellow Green	Green Diffused	GaP	30	10	4	-30 ~ 85	2	0.7	5	1.9	2.4	565	P516CT-ND*	.33	.31	.28	P516TR-ND*	6,000	113.00/M	LN1371SGTR
	High Bright Yellow Green	Green Diffused	GaP	60	20	4	-25 ~ 85	5	3	10	2.03	2.6	565	P494CT-ND	—	.33	.30	P494TR-ND	6,000	103.00/M	LNJ306G5TR02
0805 (2012) Gull Wing S-GW Type 4mm pitch Taping																					
6	Ultra Bright Red	Red Diffused	GaAlAs	60	20	3	-25 ~ 85	5	1.7	10	1.72	2.5	660	P11505CT-ND◆	.38	.34	.31	P11505TR-ND◆	3,000	124.00/M	LN1271RALTRP
	Orange	Red Diffused	GaAsP	30	10	3	-30 ~ 85	1	0.4	5	1.8	2.4	630	P11506CT-ND◆	.37	.33	.30	P11506TR-ND◆	3,000	119.00/M	LN1871SRTRP
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25 ~ 85	0.8	0.3	10	1.93	2.6	610	P11507CT-ND	.35	.32	.29	P11507TR-ND	3,000	114.00/M	LN1871Y5TRP
	Amber	Yellow Diffused	GaAsP	30	10	4	-30 ~ 85	1	0.4	5	1.9	2.4	590	P11508CT-ND◆	.35	.32	.29	P11508TR-ND◆	3,000	114.00/M	LN1471SYTRP
	Yellow Green	Green Diffused	GaP	60	20	4	-25 ~ 85	2.6	0.9	10	2.03	2.6	565	P11509CT-ND◆	.33	.30	.27	P11509TR-ND◆	3,000	108.00/M	LN1371GTRP
	Yellow Green	Green Diffused	GaP	30	10	4	-25 ~ 85	2	0.7	5	1.9	2.4	565	P11510CT-ND◆	.35	.32	.28	P11510TR-ND◆	3,000	113.00/M	LN1371SGTRP
	High Bright Yellow Green	Green Diffused	GaP	60	20	4	-25 ~ 85	5	3	10	2.03	2.6	565	P11595CT-ND	.35	.32	.28	P11595TR-ND	3,000	113.00/M	LNJ306G5TUWQ
1206 (3216) Leadless with Flat Lens Type — RoHS Compliant																					
7	High Bright Red	Red Diffused	GaAlAs	60	20	3	-30 ~ 85	7	2.3	10	1.72	2.5	660	P11141CT-ND	.33	.31	.28	P11141TR-ND	3,000	138.00/M	LNJ211R8ARA
	Orange	Red Diffused	GaAsP	60	20	3	-30 ~ 85	1.8	0.7	10	1.93	2.6	630	P11526CT-ND	.39	.36	.32	P11526TR-ND	3,000	128.00/M	LNJ811R8DRA
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-30 ~ 85	1	0.5	10	1.93	2.6	610	P11527CT-ND	.39	.36	.32	P11527TR-ND	3,000	128.00/M	LNJ811K8SRA
	Amber	Yellow Diffused	GaAsP	60	20	4	-30 ~ 85	2.2	0.75	10	2	2.6	590	P11528CT-ND	.39	.36	.32	P11528TR-ND	3,000	128.00/M	LNJ411K8YRA

◆ ***RoHS Compliant*** * Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type *(Continued)*

Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings				Io		Rated	VF(V)		λP	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel		Panasonic
				(mW) PD	(mA) IF	(V) VR	(°C) Topr	(mcd) Typ.	(mcd) Min.	(mA) IF	Typ.	Max.	Typ.	Part No.	1	10	100	Part No.	Qty.	Pricing	Part No.
7	Yellow Green	Green Diffused	GaP	60	20	4	-30 ~ 85	5.5	1.8	10	2.03	2.6	565	P11529CT-ND	.36	.33	.30	P11529TR-ND	3,000	118.00/M	LNJ311G8TRA
	Pure Green	Green Diffused	GaP	60	20	4	-30 ~ 85	0.7	0.25	10	2.03	2.6	555	P11531CT-ND	.42	.38	.35	P11531TR-ND	3,000	138.00/M	LNJ311G8PRA
	High Bright Red	Red Diffused	GaAlAs	60	20	3	-30 ~ 85	7	2.3	10	1.72	2.5	660	P541CT-ND†	.33	.31	.28	P541TR-ND†	3,000	138.00/M	LNJ211R8ARU
	Orange	Red Diffused	GaAsP	60	20	3	-30 ~ 85	1.8	0.7	10	1.93	2.6	630	P11540CT-ND†	.39	.36	.32	P11540TR-ND†	3,000	128.00/M	LNJ811R8DRU
	Amber	Yellow Diffused	GaAsP	60	20	4	-30 ~ 85	2.2	0.75	10	2	2.6	590	P11596CT-ND†	.39	.36	.32	P11596TR-ND†	3,000	128.00/M	LNJ411K8YRU
	Yellow Green	Green Diffused	GaP	60	20	4	-30 ~ 85	5.5	1.8	10	2.03	2.6	565	P540CT-ND†	.33	.31	.28	P540TR-ND†	3,000	118.00/M	LNJ311G8TRU
Ultra Bright InGaAlP / GaN LED																					
7	Ultra Bright Red	Red Diffused	InGaAlP	55	20	4	-30 ~ 85	15	8	10	1.92	2.5	645	P11532CT-ND	.47	.38	.29	P11532TR-ND	3,000	124.49/M	LNJ211R82RA
	Orange	Red Diffused	InGaAlP	55	20	4	-30 ~ 85	32	17	10	2.03	2.5	630	P11533CT-ND	.41	.33	.25	P11533TR-ND	3,000	108.60/M	LNJ811R83RA
	Orange	Red Diffused	InGaAlP	50	20	4	-30 ~ 85	6.5	3.5	10	1.9	2.5	620	P11534CT-ND	.57	.46	.35	P11534TR-ND	3,000	151.49/M	LNJ811R88RA
	Soft Orange	Red Diffused	InGaAlP	55	20	4	-30 ~ 85	21	10	10	1.95	2.5	615	P11535CT-ND	.41	.33	.25	P11535TR-ND	3,000	108.60/M	LNJ811K87RA
	Amber	Yellow Diffused	InGaAlP	55	20	4	-30 ~ 85	17	9	10	2	2.5	595	P11536CT-ND	.57	.46	.35	P11536TR-ND	3,000	150.76/M	LNJ411K84RA
	Yellow Green	Green Diffused	InGaAlP	55	20	4	-30 ~ 85	12	6.4	10	2.03	2.5	575	P11537CT-ND	.41	.33	.25	P11537TR-ND	3,000	108.60/M	LNJ311G83RA
	Blue	White Diffused	GaN	40	10	5	-25 ~ 85	8.5	4.5	5	3.2	3.7	470	P11539CT-ND	.65	.49	.37	P11539TR-ND	3,000	212.49/M	LNJ911W8BRA
	Pure Green	White Diffused	GaN	40	10	5	-25 ~ 85	34	14.4	5	3	3.7	525	P11538CT-ND	.83	.70	.56	P11538TR-ND	3,000	360.82/M	LNJ611W8WRA
	Amber	Yellow Diffused	InGaAlP	55	20	4	-30 ~ 85	17	9	10	2	2.5	595	P11541CT-ND†	.57	.46	.35	P11541TR-ND†	3,000	150.76/M	LNJ411K84RU
	Blue	White Diffused	GaN	40	10	5	-25 ~ 85	8.5	4.5	5	3.2	3.7	470	P11543CT-ND†	.65	.49	.37	P11543TR-ND†	3,000	212.49/M	LNJ911W8BRU
	Pure Green	White Diffused	GaN	40	10	5	-25 ~ 85	34	14.4	5	3	3.7	525	P11542CT-ND†	.83	.70	.56	P11542TR-ND†	3,000	360.82/M	LNJ611W8WRU
1206 (3216) Leadless with Micro Lens Type — RoHS Compliant																					
7	High Bright Red	Red Diffused	GaAlAs	60	20	3	-30 ~ 85	10.5	4	10	1.72	2.5	660	P11511CT-ND	.42	.38	.35	P11511TR-ND	3,000	138.00/M	LNJ216C8ARA
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30 ~ 85	2.1	1.1	10	1.93	2.6	630	P11512CT-ND	.39	.36	.32	P11512TR-ND	3,000	128.00/M	LNJ816C8DRA
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30 ~ 85	1.5	0.8	10	1.93	2.6	610	P11513CT-ND	.39	.36	.32	P11513TR-ND	3,000	128.00/M	LNJ816C8SRA
	Amber	Yellow Diffused	GaAsP	60	20	4	-30 ~ 85	3.3	1.2	10	2	2.6	590	P11514CT-ND	.39	.36	.32	P11514TR-ND	3,000	128.00/M	LNJ416Q8YRA
	Green	Green Diffused	GaP	60	20	4	-30 ~ 85	8.8	3.3	10	2.03	2.6	565	P11515CT-ND	.36	.33	.30	P11515TR-ND	3,000	118.00/M	LNJ316C8TRA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-30 ~ 85	1	0.4	10	2.03	2.6	555	P11517CT-ND	.42	.38	.35	P11517TR-ND	3,000	138.00/M	LNJ316C8PRA
	Red	Clear Non Diffused	GaAlAs	60	20	3	-30 ~ 85	10.5	4	10	1.72	2.5	660	P11544CT-ND†	.42	.38	.35	P11544TR-ND†	3,000	138.00/M	LNJ216C8ARU
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30 ~ 85	2.1	1.1	10	1.93	2.6	630	P11545CT-ND†	.39	.36	.32	P11545TR-ND†	3,000	128.00/M	LNJ816C8DRU
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30 ~ 85	3.3	1.2	10	2	2.6	590	P11546CT-ND†	.39	.36	.32	P11546TR-ND†	3,000	128.00/M	LNJ416Q8YRU
	Green	Clear Non Diffused	GaP	60	20	4	-30 ~ 85	8.8	3.3	10	2.03	2.6	565	P11547CT-ND†	.36	.33	.30	P11547TR-ND†	3,000	118.00/M	LNJ316C8TRU
Ultra Bright InGaAlP / GaN LED																					
7	Red	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	24	12.8	10	1.92	2.5	645	P11518CT-ND	.47	.38	.29	P11518TR-ND	3,000	124.49/M	LNJ216C82RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	48	25	10	2.03	2.5	630	P11519CT-ND	.40	.33	.25	P11519TR-ND	3,000	108.60/M	LNJ816C83RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	9.8	5.2	10	1.9	2.5	620	P11520CT-ND	.57	.46	.35	P11520TR-ND	3,000	151.49/M	LNJ816C88RA
	Soft Orange	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	30	16	10	1.95	2.5	615	P11521CT-ND	.41	.33	.25	P11521TR-ND	3,000	108.60/M	LNJ816C87RA
	Amber	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	26	13.8	10	2	2.5	595	P11522CT-ND	.57	.46	.35	P11522TR-ND	3,000	150.76/M	LNJ416C84RA
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	22	11	10	2.03	2.5	575	P11523CT-ND	.41	.33	.25	P11523TR-ND	3,000	108.60/M	LNJ316C83RA
	Blue	Clear Non Diffused	GaN	40	10	5	-25 ~ 85	12.8	6.8	15	3.2	3.7	470	P11525CT-ND	.65	.49	.37	P11525TR-ND	3,000	212.49/M	LNJ916C8BRA
	Pure Green	Clear Non Diffused	GaN	40	10	5	-25 ~ 85	51	27.2	5	3	3.7	525	P11524CT-ND	.83	.70	.56	P11524TR-ND	3,000	360.82/M	LNJ616C8WRA
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	22	11	10	2.03	2.5	575	P11548CT-ND†	.41	.33	.25	P11548TR-ND†	3,000	108.60/M	LNJ316C83RU
1206 (3216) Leadless with Dome Lens Type (30 degree) — RoHS Compliant																					
8	High Bright Red	Clear	GaAlAs	60	20	3	-30 ~ 85	32	17	10	1.72	2.5	660	P596CT-ND	.73	.67	.61	P596TR-ND	2,000	196.19/M	LNJ218C8ARA
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30 ~ 85	9	4.5	20	1.93	2.6	630	P11563CT-ND	.50	.47	.43	P11563TR-ND	2,000	202.00/M	LNJ818C8DRA
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30 ~ 85	5	2.7	20	1.93	2.6	610	P11564CT-ND	.50	.47	.43	P11564TR-ND	2,000	202.00/M	LNJ818C8SRA
	Yellow Green	Clear	GaP	60	20	4	-30 ~ 85	25	10	10	2.03	2.6	565	P595CT-ND	.56	.52	.48	P595TR-ND	2,000	177.94/M	LNJ318C8TRA
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30 ~ 85	7	3.7	20	2	2.6	590	P11565CT-ND	.50	.47	.43	P11565TR-ND	2,000	202.00/M	LNJ418Q8YRA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-30 ~ 85	3.5	2	20	2.03	2.6	555	P11567CT-ND	.52	.49	.45	P11567TR-ND	2,000	212.00/M	LNJ318C8PRA
	High Bright Red	Clear Non Diffused	GaAlAs	60	20	3	-30 ~ 85	32	17	20	1.72	2.5	660	P11576CT-ND	.52	.49	.45	P11576TR-ND	2,000	212.00/M	LNJ218C8ARU
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30 ~ 85	5	2.7	10	1.03	2.6	610	P11577CT-ND	.50	.47	.43	P11577TR-ND	2,000	202.00/M	LNJ818C8SRU
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30 ~ 85	7	3.7	20	2	2.6	590	P11578CT-ND	.50	.47	.43	P11578TR-ND	2,000	202.00/M	LNJ418Q8YRU
Ultra Bright InGaAlP LED																					
8	Ultra Bright Red	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	75	40	20	1.92	2.5	645	P11568CT-ND	.52	.39	.30	P11568TR-ND	2,000	173.10/M	LNJ218C82RA
	Orange	Non Diffused	InGaAlP	55	20	4	-30 ~ 85	160	85	20	2.03	2.5	630	P11569CT-ND	.57	.46	.35	P11569TR-ND	2,000	158.76/M	LNJ818C83RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	33	17.6	20	1.9	2.5	620	P11570CT-ND	.63	.48	.36	P11570TR-ND	2,000	210.41/M	LNJ818C88RA
	Soft Orange	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	100	56	20	1.95	2.5	615	P11571CT-ND	.57	.46	.35	P11571TR-ND	2,000	158.76/M	LNJ818C87RA
	Amber	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	85	45	20	2	2.5	595	P11572CT-ND	.63	.48	.36	P11572TR-ND	2,000	210.41/M	LNJ418C84RA
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	110	58	20	2.03	2.5	575	P11573CT-ND	.57	.46	.35	P11573TR-ND	2,000	158.76/M	LNJ318C83RA
	Yellow Green	Clear Non Diffused	InGaAlP	55	20	4	-30 ~ 85	110	58	10	2.03	2.5	575	P11579CT-ND†	.57	.46	.35	P11579TR-ND†	2,000	158.76/M	LNJ318C83RU
Side Firing LED with Refractive Case																					
9	Red	Clear	GaP	60	20	4	-25 ~ 80	0.7	0.25	10	2.03	2.6	700	P11138CT-ND◆	.40	.37	.34	P11138TR-ND◆	3,000	163.00/M	LNJ210C6RRA
	High Bright Red	Clear	GaAlAs	60	20	3	-25 ~ 80	8	2.6	10	1.72	2.5	660	P11139CT-ND◆	.40	.37	.34	P11139TR-ND◆	3,000	182.00/M	LNJ210C6ARA
	Orange	Red Clear	GaAsP	60	20	3	-25 ~ 80	2.5	0.8	10	1.93	2.6	630	P519CT-ND◆	.39	.36	.33	P519TR-ND◆	3,000	172.00/M	LNJ810L6DRA
	Soft Orange	Red Clear Non Diff.	GaAsP	60	20	3	-25 ~ 85	1.8	0.75	10	1.93	2.6	610	P11580CT-ND	.53	.48	.43	P11580TR-ND	3,000	172.00/M	LNJ810L6SRA
	Amber	Yellow Clear	GaAsP	60	20	4	-25 ~ 80	2.5	0.8	10	2	2.6	590	P11140CT-ND◆	.40	.37	.34	P11140TR-ND◆	3,000	172.00/M	LNJ410Q6YRA
	Yellow Green	Clear	GaP	60	20	4	-25 ~ 80	8	3	10	2.03	2.6	565	P520CT-ND◆	.39	.36	.33	P520TR-ND◆	3,000	163.00/M	LNJ310M6URA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-25 ~ 85	1.1	0.6	10	2.03	2.6	555	P11582CT-ND	.56	.50	.45	P11582TR-ND	3,000	182.00/M	LNJ310C6PRA
	White	White Diffused	GaN	120	30	5	-25 ~ 80	260	180	10	3.4	3.9	—	P12024CT-ND	5.77	5.39	4.88	—	—	—	LNJ010X6FRA
Ultra Bright InGaAlP LED																					
9	Ultra Bright Red	Clear Non Diffused	InGaAlP	55	20	4	-25 ~ 85	23	12	10	1.92	2.5	645	P11583CT-ND◆	.72	.68	.62	P11583TR-ND◆	3,000	293.00/M	LNJ210C62RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-25 ~ 85	48	25	10	2.03	2.5	630	P11584CT-ND	.72	.68	.62	P11584TR-ND	3,000	293.00/M	LNJ810C63RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-25 ~ 85	45	24	10	1.95	2.5	620	P11585CT-ND	.72	.68	.62	P11585TR-ND	3,000	293.00/M	LNJ810C68RA
	Soft Orange	Clear Non Diffused	InGaAlP	50	20	4	-25 ~ 80	30	12	10	1.95	2.5	615	P11586CT-ND	.72	.68	.62	P11586TR-ND	3,000	293.00/M	LNJ810C67RA
	Amber	Clear Non Diffused	InGaAlP	50	20	4	-25 ~ 80	22.5	8.5	10	2	2.5	595	P11587CT-ND	.72	.68	.62	P11587TR-ND	3,000	293.00/M	LNJ410C64RA
	Yellow Green	Clear Non Diffused	InGaAlP	50	20	4	-25 ~ 80	15	7.7	10	2	2.5	575	P11588CT-ND	.72	.68	.62	P11588TR-ND	3,000	293.00/M	LNJ310C63RA
NEW! Leadless-Side View — RoHS Compliant NEW!																					
10	Red	White Diffused	InGaAlP	55	60	4	-30 ~ 85	15	8.0	10	1.92	2.5	645	P14131CT-ND	.41	.37	.34	P14131TR-ND	5,000	122.01/M	LNJ253W82RA
	Green	White Diffused	InGaAlP	55	60	4	-30 ~ 85	8.5	4.0	5	1.95	2.30	575	P14132CT-ND	.36	.33	.29	P14132TR-ND	5,000	106.41/M	LNJ353W83RA
	Amber	White Diffused	InGaAlP	55	60	4	-30 ~ 85	18.0	6.0	5	1.95	2.30	595	P14133CT-ND	.36	.33	.29	P14133TR-ND	5,000	106.41/M	LNJ453W82RA
	Orange	White Diffused	InGaAlP	55	60	4	-30 ~ 85	17.0	9.0	5	1.9	2.3	630	P14134CT-ND	.36	.33	.29	P14134TR-ND	5,000	106.41/M	LNJ853W83RA
	Blue	White Diffused	InGaN	55	70	5	-30 ~ 85	10.0	7.0	5	2.90	3.20	465	P14135CT-ND	.72	.65	.58	P14135TR-ND	5,000	212.82/M	LNJ953W8CRA
Gull Wing GW Type with Refractive Case																					
11	Red	Clear	GaP	60	20	4	-25 ~ 80	1.4	0.5	15	2.2	2.8	700	P503CT-ND◆	.33	.31	.28	P503TR-ND◆	2,000	128.00/M	LN1261CTR
	High Bright Red	Clear	GaAlAs	50	20	3	-25 ~ 80	12	5	20	1.8	2.6	660	P513CT-ND◆	.44	.41	.37	P513TR-ND◆	2,000	148.00/M	LN1261CALTR
	Orange	Clear	GaAsP	60	20	3	-25 ~ 80	5	1.9	20	2.1	2.8	630	P505CT-ND◆	.33	.31	.28	P505TR-ND◆	2,000	138.00/M	LN1861CTR
	Amber	Clear	GaAsP	60	20	4	-25 ~ 80	4.5	1.6	20	2.2	2.8	590	P512CT-ND◆	.34	.31	.29	P512TR-ND◆	2,000	138.00/M	LN1461CTR
	Yellow Green	Clear	GaP	60	20	4	-25 ~ 80	7.5	2.8	20	2.2	2.8	565	P504CT-ND◆	.33	.31	.28	P504TR-ND◆	2,000	128.00/M	LN1361CTR
	High Bright Yellow Green	Clear	GaP	60	20	4	-25 ~ 80	15	8	20	2.2	2.8	565	P514CT-ND◆	.38	.35	.32	P514TR-ND◆	2,000	128.00/M	LNJ361C3UR01

◆ ***RoHS Compliant*** * Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type *(Continued)*

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings (mW) PD	(mA) IF	(V) VR	(°C) Topr	Io (mcd) Typ.	Io (mcd) Min.	Rated (mA) IF	VF(V) Typ.	VF(V) Max.	λP Typ.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Panasonic Part No.
Ultra Bright InGaAIP LED																					
11	Amber	Clear	InGaAIP	50	20	4	-25 ~ 80	18	6.5	10	2	2.3	595	P11128CT-ND	.58	.53	.49	P11128TR-ND	2,000	276.00/M	LNJ461C34RA
1206 (3216) J-Lead J Type with Refractive Case																					
12	Red	Clear	GaAsP	45	15	4	-25 ~ 80	1.2	0.45	10	2.1	2.8	700	P500CT-ND◆	.33	.31	.28	P500TR-ND◆	3,000	128.00/M	LN1251CTR
	High Bright Red	Clear	GaAlAs	45	15	3	-25 ~ 80	9	3.3	10	1.75	2.6	660	P11126CT-ND◆	.44	.41	.38	P11126TR-ND◆	3,000	148.00/M	LN1251CALTR
	Orange	Clear	GaAsP	45	15	3	-25 ~ 80	3.5	1.3	10	0.05	2.8	630	P502CT-ND◆	.33	.31	.28	P502TR-ND◆	3,000	138.00/M	LN1851CTR
	Amber	Clear	GaAsP	45	15	4	-25 ~ 80	2.2	0.8	10	2.1	2.8	590	P511CT-ND◆	.33	.31	.28	P511TR-ND◆	3,000	138.00/M	LN1451CTR
	Yellow Green	Clear	GaP	45	15	4	-25 ~ 80	5	1.9	10	2.1	2.8	565	P501CT-ND◆	.33	.31	.28	P501TR-ND◆	3,000	128.00/M	LN1351CTR
Ultra Bright GaN LED																					
12	Blue	Clear	GaN	40	10	5	-25 ~ 80	9	3	5	3.2	3.7	470	P11127CT-ND◆	1.44	1.16	.87	P11127TR-ND◆	3,000	738.44/M	LNJ951C4BRA
	Pure Green	Clear	GaN	40	10	5	-25 ~ 80	60	32	5	3.0	3.7	525	P628CT-ND	1.44	1.16	.87	P628TR-ND	3,000	738.44/M	LNJ651C4WRA
Leadless TSS-Type Bi-Color — RoHS Compliant																					
13	Yellow Green	White Diffused	GaP	60	20	4	-30 ~ 85	5	1.8	10	2.03	2.6	565	P11142CT-ND	.80	.74	.67	P11142TR-ND	5,000	170.00/M	LNJ115W8ARA
	Orange	White Diffused	GaAsP	60	20	3	-30 ~ 85	1	0.4	10	1.93	2.6	630								
	Yellow Green	White Diffused	GaP	60	20	4	-30 ~ 85	5	1.8	10	2.03	2.6	565	P11143CT-ND	.80	.74	.67	P11143TR-ND	5,000	188.00/M	LNJ115W8PRA
	High Bright Red	White Diffused	GaAlAs	50	20	3	-30 ~ 85	6.7	2.2	10	1.72	2.5	655								
Ultra Bright InGaAIP / GaN LED Combination																					
13	Yellow Green	White Diffused	GaP	60	20	4	-30 ~ 85	5	1.8	10	2.03	2.6	565	P11144CT-ND	.94	.71	.53	P11144TR-ND	5,000	298.80/M	LNJ115W88RA
	Amber	White Diffused	InGaAIP	55	20	4	-30 ~ 85	21	7	10	2.1	2.6	595								
	Yellow Green	White Diffused	GaP	60	20	4	-30 ~ 85	5	1.8	10	2.03	2.6	565	P11591CT-ND	.94	.71	.53	P11591TR-ND	5,000	298.80/M	LNJ115W89RA
	Soft Orange	White Diffused	InGaAIP	55	20	3	-30 ~ 85	21	7	10	1.95	2.5	615								
	Pure Green	White Diffused	GaN	40	10	5	-30 ~ 85	34	12.9	5	3	3.7	525	P11590CT-ND	1.86	1.49	1.12	P11590TR-ND	5,000	930.82/M	LNJ115W86RA
	High Bright Red	White Diffused	GaAlAs	55	20	3	-30 ~ 85	6.7	2.8	10	1.72	2.5	655								
	Blue	White Diffused	GaN	40	10	5	-30 ~ 85	8.5	4	5	3.2	3.7	470	P11589CT-ND	1.86	1.49	1.12	P11589TR-ND	5,000	930.82/M	LNJ115W8HRA
	High Bright Red	White Diffused	GaAlAs	55	20	3	-30 ~ 85	6.7	2.8	10	1.72	2.5	655								
	Pure Green	White Diffused	GaN	40	10	5	-30 ~ 85	34	10.3	5	3	3.7	525	P11145CT-ND	1.86	1.49	1.12	P11145TR-ND	5,000	930.82/M	LNJ115W8VRA
	Soft Orange	White Diffused	InGaAIP	55	20	4	-30 ~ 85	21	7	10	1.95	2.5	615								
S-GW Gull Wing Type Bi-Color — RoHS Compliant																					
14	High Bright Yellow Green	White Diffused	GaP	60	20	4	-25 ~ 85	5	3	10	2.03	2.6	565	P526CT-ND	.75	.69	.63	P526TR-ND	3,000	237.00/M	LNJ107W5PRW
	High Bright Red	White Diffused	GaAlAs	60	20	3	-25 ~ 85	5	1.7	10	1.72	2.5	660								
	Yellow Green	White Diffused	GaP	60	20	4	-25 ~ 85	2.6	0.9	10	2.03	2.6	565	P515CT-ND	.75	.69	.63	P515TR-ND	3,000	217.00/M	LNJ107W5ARA1
	Orange	White Diffused	GaAsP	60	20	3	-25 ~ 85	1	0.4	10	1.93	2.6	630								
Gull Wing Type Bi-Color with Refractive Case																					
15	Green	Clear	GaP	45	15	4	-25 ~ 80	4	1.5	10	2.05	2.8	565	P507CT-ND◆	.75	.69	.63	P507TR-ND◆	1,000	256.00	LN2162C13TR
	Red	Clear	GaAsP	45	15	3	-25 ~ 80	1.8	0.65	10	2	2.8	650								
	Pure Green	Clear	GaAsP	45	15	3	-25 ~ 65	2.5	1.2	10	2.05	2.8	555	P11147CT-ND	.80	.74	.67	P11147TR-ND	1,000	256.00	LN2162C68TR
	Orange	Clear	GaAsP	45	15	3	-25 ~ 65	2.1	0.8	10	1.95	2.8	630								
Dome Lens Leadless Bi-Color LED — RoHS Compliant																					
16	Yellow/Green	White Diffused	GaP	60	20	4	-30 ~ 85	10	5	10	2.03	2.6	565	P594CT-ND	.53	.49	.45	P594TR-ND	2,500	233.97/M	LNJ121W84RA
	High Bright Red	White Diffused	InGaAIP	55	20	4	-30 ~ 85	13.4	7	10	1.92	2.5	645								
Side View Smaller Size Leadless LED — RoHS Compliant																					
17	Blue	White Diffused	GaN	65	15	5	-30 ~ 85	25	10	5	3	3.4	467	P632CT-ND	.77	.65	.52	P632TR-ND	4,000	333.32/M	LNJ923W8BRA
	Soft Orange	Yellow Diffused	InGaAIP	55	20	4	-30 ~ 85	9	7	5	1.95	2.3	610	P633CT-ND	.42	.34	.24	P633TR-ND	5,000	103.00/M	LNJ853W86RA
Side View Smaller Size Leadless Bi-Color LED — RoHS Compliant																					
18	Yellow/Green	White Diffused	GaP	60	20	4	-30 ~ 85	5	1.8	10	2.03	2.6	565	P593CT-ND	.53	.49	.45	P593TR-ND	4,000	233.97/M	LNJ123W8PRZ
	High Bright Red	White Diffused	GaAlAs	50	20	3	-30 ~ 85	4	1.5	10	1.72	2.5	655								
Tri-Color Leadless LED Ultra Bright LED Combination — RoHS Compliant																					
19	Blue	White Diffused	InGaN	40	10	5	-30 ~ 85	8.5	3.2	5	3.2	3.7	470	P11146CT-ND	11.12	10.20	9.27	P11146TR-ND	2,000	4533.00/M	LNJ717W80RA
	Pure Green	White Diffused	InGaN	40	10	5	-30 ~ 85	34	10.3	5	3	3.7	525								
	Soft Orange	White Diffused	InGaAIP	55	20	4	-30 ~ 85	23	7	10	1.95	2.5	615								
20	Blue	White Diffused	GaN	65	15	4	-30 ~ 85	35	10	5	3.1	3.7	470	P11592CT-ND	2.27	1.82	1.37	P11592TR-ND	2,000	1179.95/M	LNJ717W83RAS
	Pure Green	White Diffused	GaN	65	15	4	-30 ~ 85	85	50	5	3.1	3.7	525								
	Orange	White Diffused	InGaAIP	70	20	4	-30 ~ 85	45	15	10	2	2.5	630								
21	Blue	White Diffused	GaN	65	15	4	-30 ~ 85	30	18	5	3.1	3.7	470	P11593CT-ND	2.27	1.82	1.37	P11593TR-ND	2,000	1179.95/M	LNJ717W80RA1
	Pure Green	White Diffused	GaN	65	15	4	-30 ~ 85	85	50	5	3.1	3.7	525								
	Soft Orange	White Diffused	InGaAIP	70	20	4	-30 ~ 85	45	20	10	1.95	2.5	615								

◆ ***RoHS Compliant*** * Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type

LED Numeric Displays

P325

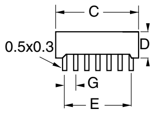

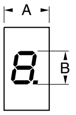

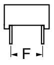

Size	A	B	C	D	E	F	G
0.3B	10.0	7.6	19.0	5.5	15.24	7.6	2.54

P358-P360

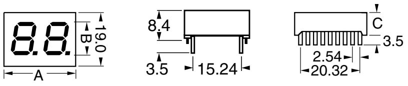

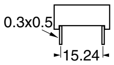

Size	Dim. A	Dim. B	Dim. C
.57	25.1	14.4	8.0

Color	Size	Absolute Max. Ratings (Ta = 25°C) V_R (V)	I_F (mA)	I_{FP}† (mA)	P_D (mW)	Characteristics (Ta = 25°C) at I_F (mA)	IO Typ. (seg.) (µcd)	Typ. (D.P.) (µcd)	at I_F (mA)	VF Typ. (V)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Pricing 1	10	200	1,000	Panasonic Part No. Common Anode	Panasonic Part No. Common Cathode
Orange	0.3B	3	20	100	60	10	1,000	400	20	2.1	P325-ND	—	1.95	17.72	304.76	1311.63	LN5130A	—
Red	.57	5	20	100	60	5	600	250	20	2.2	—	P358-ND◆	2.06	18.75	322.50	1387.97	—	LN526RK
Amber	.57	5	20	100	60	10	800	300	20	2.2	—	P360-ND	2.97	27.00	464.40	1998.68	—	LN526YK

◆ ***RoHS Compliant*** † The condition of I_{FP} is duty 10%, pulse width is 1 msec.

Digi-Reel® Most SMT cutdown parts are available on a **Digi-Reel®**. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See **Digi-Key®** Services on page 2 for additional information.

Panasonic

Blue LEDs

High Brightness

Max Ratings:
Power Consumption: 120mW
Forward Current: 30mA
Reverse Voltage: 5V
Operating Ambient Temperature: -25~80°C
Storage Temperature: -30~100°C
Water clear lens when off.

Blue LED Precautions in Handling:

A blue LED is sensitive to static electricity and care should be fully taken in handling it. Particularly, when an overvoltage is applied, which exceeds the absolute maximum rating of the blue LED, its energy damages the LED.

Fig. 1 – T-1¾

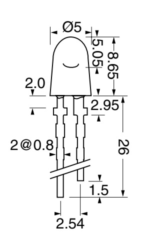

Fig. 2 – T-1¾

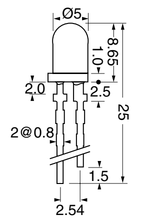

Fig. 3 – T-1¾

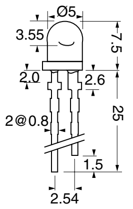

	Io								IR		Viewing						
	mcd	mcd	(mA)	VF (V)		λp	Δλ	(mA)	(μA)	(V)	Angle	Digi-Key	Pricing				Panasonic
Fig.	Typ	Min	I_F	Max	Typ	Typ	Typ	I_F	Max	V_R	(deg)	Part No.	1	10	200	1,000	Part No.
1	1500	640	20	4.0	3.5	470	30	20	10	5	15	P465-ND	1.69	13.48	202.25	876.40	LNG992CFBW
2	650	260	20	4.0	3.5	470	30	20	10	5	30	P466-ND	1.69	13.48	202.25	876.40	LNG901CFBW
3	350	140	20	4.0	3.5	470	30	20	10	5	45	P467-ND	1.69	13.48	202.25	876.40	LNG91LCFBW

LEDs

Fig. 1 – T-1

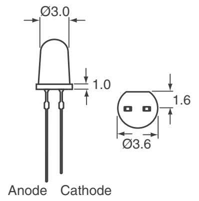

Fig. 2 – T-1

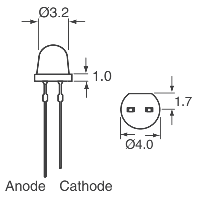

Fig. 3 – T-1½

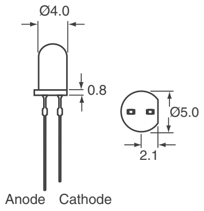

Fig. 4 – T-1¾

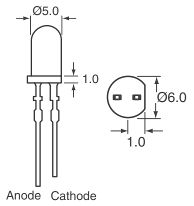

Fig. 5 – T-1¾

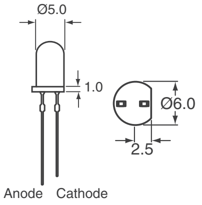

			Electro-Optical Character (Ta=25°C)					Dimensions (mm)								
	Lens		P_D	I_F	V_R	I_O	λ_p	Lens	Lead	Lead	Digi-Key	Pricing				Panasonic
Fig.	Size	Color	(mW)	(mA)	(V)	(mcd)	(nm)	Height	Length	Spacing	Part No.	10	200	1,000	5,000	Part No.
1	ϕ3.0	Red Diffused	70	25	4	2.8	700	5.5	26.5, 28.0	2.54	P563-ND◆	2.24	36.00	124.62	114.82/M	LN28RPX
	ϕ3.0	Green Diffused	90	30	4	10.0	565	5.5	26.5, 28.0	2.54	P564-ND◆	2.84	45.57	139.01	128.08/M	LN38GPX
	ϕ3.0	Amber Diffused	90	30	4	5.0	590	5.5	26.5, 28.0	2.54	P565-ND◆	3.50	60.20	187.32	171.29/M	LN48YPX
	ϕ3.0	Orange Red Diff.	90	30	3	5.0	630	5.5	26.5, 28.0	2.54	P566-ND◆	3.18	51.07	155.79	143.54/M	LN88RPX
	ϕ3.0	Clear Red Diffused	70	25	4	3.0	700	5.5	26.5, 28.0	2.54	P606-ND◆	1.87	31.11	105.76	99.54/M	LN28RCPX
	ϕ3.0	Clear Green Diff.	90	30	4	8.0	565	5.5	26.5, 28.0	2.54	P607-ND◆	2.15	34.50	112.64	103.78/M	LN38GCPX
	ϕ3.0	Clear Amber Diff.	90	30	4	15.0	590	5.5	26.5, 28.0	2.54	P608-ND◆	2.24	36.00	122.23	112.61/M	LN48YCPX
2	ϕ3.2	Red Diffused	70	25	4	1.0	700	4.6	24.5, 26.0	2.54	P567-ND◆	2.70	43.44	131.81	121.45/M	LN276RPX
	ϕ3.2	Red Clear	70	25	4	1.5	700	4.6	24.5, 26.0	2.54	P568-ND◆	2.70	43.44	131.81	121.45/M	LN276RCX
	ϕ3.2	Green Diffused	90	30	4	5.0	565	4.6	24.5, 26.0	2.54	P569-ND◆	2.84	45.57	139.01	128.08/M	LN376GPX
	ϕ3.2	Green Clear	90	30	4	15.0	565	4.6	24.5, 26.0	2.54	P570-ND◆	2.84	45.57	139.01	128.08/M	LN376GCPX
	ϕ3.2	Orange Red Clear	90	30	3	10.0	630	4.6	24.5, 26.0	2.54	P571-ND	3.18	51.07	155.79	143.54/M	LN876RCPX
3	ϕ4.0	Red Diffused	70	25	4	2.0	700	6.0	26.45, 27.95	2.54	P572-ND◆	2.24	36.00	124.62	114.82/M	LN29RPX
	ϕ4.0	Green Diffused	90	30	4	6.0	565	6.0	26.45, 27.95	2.54	P573-ND◆	2.84	45.57	139.01	128.08/M	LN39GPX
	ϕ4.0	Amber Diffused	90	30	4	10.0	590	6.0	26.45, 27.95	2.54	P574-ND◆	3.50	60.20	187.32	171.29/M	LN49YPX
	ϕ4.0	Clear Red Diffused	70	25	4	3.5	700	6.0	26.5, 28.0	2.54	P602-ND◆	1.87	31.11	105.76	99.54/M	LN29RCPX
	ϕ4.0	Clear Green Diff.	90	30	4	20.0	565	6.0	26.5, 28.0	2.54	P603-ND◆	2.15	34.50	112.64	103.78/M	LN39GCPXUY
4	ϕ5.0	Red Diffused	70	25	4	3.0	700	8.65	25.0, 26.5	2.54	P374-ND◆	1.68	27.00	107.85	99.37/M	LN21RPH
	ϕ5.0	Green Diffused	90	30	4	15.0	565	8.65	25.0, 26.5	2.54	P375-ND◆	2.15	34.50	112.64	103.78/M	LN31GPH
	ϕ5.0	Amber Diffused	90	30	4	8.0	590	8.65	25.0, 26.5	2.54	P372-ND◆	2.24	36.00	122.23	112.61/M	LN41YPH
	ϕ5.0	Orange Red Diff.	90	30	3	10.0	630	8.65	25.0, 26.5	2.54	P373-ND◆	2.24	36.00	122.23	112.61/M	LN81RPH
	ϕ5.0	Red Clear	70	25	4	5.0	700	8.65	25.0, 26.5	2.54	P581-ND◆	2.15	34.51	119.83	110.41/M	LN21RCPH
	ϕ5.0	Red Diffused‡	70	25	4	3.0	700	8.65	25.0, 26.5	2.54	P582-ND◆	2.15	34.51	119.83	110.41/M	LN21WPH
	ϕ5.0	Red Clear†	70	25	4	5.0	700	8.65	25.0, 26.5	2.54	P583-ND◆	2.15	34.51	119.83	110.41/M	LN21CPH
	ϕ5.0	Green Clear	90	30	4	20.0	565	8.65	25.0, 26.5	2.54	P584-ND◆	2.70	43.41	127.03	117.04/M	LN31GCPH
	ϕ5.0	Green Yellow Clear	90	30	4	56.0	563	8.65	25.0, 26.5	2.54	P585-ND◆	2.70	43.41	127.03	117.04/M	LN31YCPH
	ϕ5.0	Amber Clear	90	30	4	20.0	590	8.65	25.0, 26.5	2.54	P586-ND◆	2.75	44.23	129.42	119.24/M	LN41YCPH
	ϕ5.0	Orange Red Clear	90	30	3	20.0	630	8.65	25.0, 26.5	2.54	P587-ND◆	2.80	45.02	136.62	125.87/M	LN81RCPH
	ϕ5.0	Orange Red Clear†	90	30	3	25.0	630	8.65	25.0, 26.5	2.54	P588-ND◆	2.80	45.02	136.62	125.87/M	LN81CPH
5	ϕ5.0	Red Diffused	70	25	4	3.0	700	8.65	27.0, 28.5	2.54	P589-ND◆	2.24	36.00	124.62	114.82/M	LN21RPX
	ϕ5.0	Green Diffused	90	30	4	15.0	565	8.65	27.0, 28.5	2.54	P590-ND◆	2.70	43.41	127.03	117.04/M	LN31GPX
	ϕ5.0	Orange Red Diff.	90	30	3	10.0	630	8.65	26.5, 28.0	2.54	P601-ND◆	2.24	36.00	122.23	112.61/M	LNG801RKD
	ϕ5.0	Amber Diffused	90	30	4	15.0	590	8.65	27.0, 28.5	2.54	P600-ND◆	2.24	36.00	122.23	112.61/M	LNG401YKX
	ϕ5.0	Red Diffused	70	25	4	4.0	700	7.5	26.5, 28.0	2.54	P598-ND	2.52	40.97	125.79	115.01/M	LNG21LRKR
	ϕ5.0	Green Diffused	90	30	4	20.0	565	7.5	26.5, 28.0	2.54	P599-ND◆	2.56	41.76	128.22	117.24/M	LN31GPSLX

◆ ***RoHS Compliant*** † Water clear lens when off. ‡ White diffused lens when off.

Panasonic®

Designer LEDs

Fig. 1

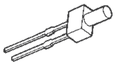

Fig. 2

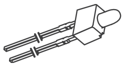

Fig. 3

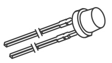

Fig. 4

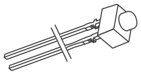

Fig. 5

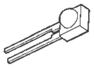

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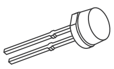

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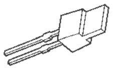

Fig. 8

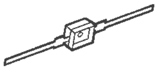

Fig. 9

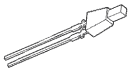

Fig. 10

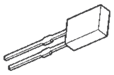

Fig. 11

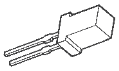

Fig. 12

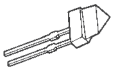

Fig. 13

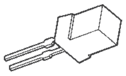

Fig. 14

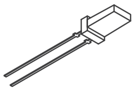

				Electro-Optical Characteristics (Ta=25°C)					Dimensions (mm)				Pricing			
Fig.	Lens Size (mm)	Color	Process Technology	P_D (mW)	I_F (mA)	V_R (V)	I_O (mcd)	λp (nm)	Lens Height	Lead Length	Lead Spacing	Digi-Key Part No.	10	200	1,000	Panasonic Part No.
1	Ø2.0	Red Diffused	GaP	70	25	4	1.0	700	8.0	27.0, 28.5	2.54	P544-ND◆	3.50	60.20	187.32	LN222RPH
	Ø2.0	Green Diffused	GaP	90	30	4	1.0	565	8.0	27.0, 28.5	2.54	P545-ND◆	3.50	60.20	187.32	LN322GPH
	Ø2.0	Amber Diffused	GaAsP	90	30	4	2.5	590	8.0	27.0, 28.5	2.54	P546-ND◆	3.60	61.92	192.66	LN422YPH
	Ø2.0	Red Diffused	GaP	70	25	4	0.6	700	8.0	27.0, 28.5	2.54	P612-ND◆	2.15	34.51	119.83	LN222RPX
	Ø2.0	Green Diffused	GaP	90	30	4	1.0	565	8.0	27.0, 28.5	2.54	P613-ND◆	2.24	36.00	143.79	LN322GPX
	Ø2.0	Amber Diffused	GaAsP	90	30	4	4.0	590	8.0	27.0, 28.5	2.54	P614-ND◆	2.75	44.23	146.20	LNG422YKY
2	Ø2.0	Red Diffused	GaP	70	25	4	1.0	700	7.7	32.0, 33.5	2.54	P547-ND◆	3.50	60.20	187.32	LN282RPX
	Ø2.0	Green Diffused	GaP	90	30	4	1.2	565	7.7	32.0, 33.5	2.54	P548-ND◆	3.50	60.20	187.32	LN382GPX
	Ø2.0	Amber Diffused	GaAsP	90	30	4	2.0	590	7.7	32.0, 33.5	2.54	P549-ND◆	3.50	60.20	214.07	LN482YPX
	Ø2.0	Orange/Red Diff	GaAsP	90	30	3	6.0	630	7.7	32.0, 33.5	2.54	P550-ND	3.50	60.20	214.07	LN882RPX
3	Ø3.0	Red Diffused	GaP	70	25	4	0.7	700	3.8	24.5, 26.0	2.54	P551-ND◆	2.80	45.02	136.62	LN277RPX
	Ø3.0	Green Diffused	GaP	90	30	4	5.0	565	3.8	24.5, 26.0	2.54	P552-ND◆	2.84	45.57	139.01	LN377GPX
	Ø3.0	Orange/Red Diff	GaAsP	90	30	3	5.0	630	3.8	24.5, 26.0	2.54	P553-ND◆	3.18	51.07	155.79	LN877RPX
4	Ø3.0	Red Diffused	GaP	70	25	4	2.0	700	6.0	27.0, 28.5	2.54	P554-ND◆	2.70	43.44	131.81	LN238RPH
	Ø3.0	Green Diffused	GaP	90	30	4	4.0	565	6.0	27.0, 28.5	2.54	P555-ND◆	2.84	45.57	139.01	LN338GPH
	Ø3.0	Amber Diffused	GaAsP	90	30	4	3.0	590	6.0	27.0, 28.5	2.54	P556-ND◆	3.50	60.20	187.32	LN438YPH
5	Ø3.5	Amber Diffused	GaAsP	90	30	4	0.8	590	2.3	12.5, 12.5	2.54	P443-ND◆	3.92	63.00	191.73	LN45YP
	Ø3.5	Orange Diffused	GaAsP	90	30	3	1.5	630	2.3	12.5, 12.5	2.54	P444-ND	3.92	63.00	191.73	LN85RP
6	Ø4.4	Green Clear	GaP	90	30	4	10.0	565	5.0	14.5, 16.0	2.54	P557-ND◆	2.84	45.57	139.01	LN340GCP
	Ø4.4	Red Diffused	GaP	70	25	4	0.8	700	5.0	27.3, 28.8	2.54	P559-ND◆	2.80	45.02	136.62	LN240RPX
	Ø4.4	Green Diffused	GaP	90	30	4	2.5	565	5.0	27.3, 28.8	2.54	P560-ND◆	2.84	45.57	139.01	LN340GPX
	Ø4.4	Orange/Red Diff	GaAsP	90	30	3	4.5	630	5.0	27.3, 28.8	2.54	P561-ND	3.18	51.07	155.79	LN840RPX
7	□ 1.0x5.0	Amber Diffused	GaAsP	90	30	4	2.0	590	8.5	13.0, 14.5	2.54	P317-ND◆	2.75	44.23	129.42	LN424YP
	□ 1.0x5.0	Red Diffused	GaP	70	25	4	0.6	700	8.5	26.5, 28.0	2.54	P615-ND◆	2.15	34.51	115.05	LN224RPXB
	□ 1.0x5.0	Green Diffused	GaP	90	30	4	2.0	565	8.5	26.5, 28.0	2.54	P616-ND◆	2.24	36.00	117.44	LN324GPXB
8	□ 1.7x2.5	Red Clear†	GaP	60	20	4	1.5	700	—	8.5 Typ.	—	P417-ND◆	2.80	45.00	150.99	LN01201C
	□ 1.7x2.5	Green Clear†	GaP	60	20	4	10.0	565	—	8.5 Typ.	—	P418-ND◆	3.08	49.50	150.99	LN01301C
	□ 1.7x2.5	Amber Clear†	GaAsP	60	20	4	5.0	590	—	8.5 Typ.	—	P419-ND◆	3.36	54.00	162.97	LN01401C
	□ 1.7x2.5	Orange Clear†	GaAsP	60	20	4	8.0	630	—	8.5 Typ.	—	P420-ND◆	3.36	54.00	162.97	LN01801C
9	□ 1.8x1.8	Red Diffused	GaP	80	25	4	0.5	700	10.0	25.5, 27.0	2.54	P385-ND	2.15	34.51	115.05	LN265RPH
	□ 1.8x1.8	Green Diffused	GaP	90	30	4	1.0	565	10.0	25.5, 27.0	2.54	P386-ND	2.24	36.00	122.23	LN365GPH
	□ 1.8x1.8	Amber Diffused	GaP	90	30	4	2.5	590	10.0	25.5, 27.0	2.54	P387-ND◆	1.94	31.16	115.44	LN465YPH
10	□ 2.0x5.0	Orange Diffused	GaAsP	90	30	3	2.5	630	7.5	14.5, 16.0	2.54	P440-ND	3.14	50.54	129.42	LN842RP
	□ 2.0x5.0	Red Diffused	GaP	70	25	4	0.4	700	7.5	26.5, 28.0	2.54	P617-ND◆	2.15	34.51	115.05	LN242RPX
	□ 2.0x5.0	Green Diffused	GaP	90	30	4	1.5	565	7.5	26.5, 28.0	2.54	P618-ND◆	2.24	36.00	117.44	LN342GPX
	□ 2.0x5.0	Amber Diffused	GaAsP	90	30	4	2.0	590	7.5	26.5, 28.0	2.54	P619-ND◆	2.75	44.23	129.42	LNG442YKX
	□ 2.0x5.0	Orange/Red Diffused	GaAsP	90	30	3	2.5	630	7.5	26.5, 28.0	2.54	P620-ND◆	2.75	44.23	129.42	LN842RPX
11	□ 4.0x4.0	Red Diffused	GaP	70	25	4	0.6	700	8.5	26.5, 28.0	2.54	P624-ND◆	2.15	34.51	115.05	LN252RPX
	□ 4.0x4.0	Green Diffused	GaP	90	30	4	2.0	565	8.5	26.5, 28.0	2.54	P625-ND◆	2.24	36.00	117.44	LN352GPX
	□ 4.0x4.0	Amber Diffused	GaAsP	90	30	4	1.5	590	8.5	26.5, 28.0	2.54	P626-ND◆	2.75	44.23	129.42	LN452YPX
12	∆ 4.0x4.5	Green Diffused	GaP	90	30	4	5.0	565	5.5	26.5, 28.0	2.54	P627-ND◆	2.24	36.00	117.44	LNG312GKG
13	□ 5.0x5.0	Red Diffused	GaP	70	25	4	0.4	700	9.0	26.5, 28.0	2.54	P621-ND◆	2.15	34.51	115.05	LN250RPH
	□ 5.0x5.0	Green Diffused	GaP	90	30	4	2.0	565	9.0	26.5, 28.0	2.54	P622-ND◆	2.24	36.00	117.44	LN350GPH
	□ 5.0x5.0	Amber Diffused	GaAsP	90	30	4	1.5	590	9.0	26.5, 28.0	2.54	P623-ND◆	2.75	44.23	129.42	LN450YPH
14	□ 1.8x5.3	Red Diffused	GaP	70	25	4	0.6	700	8.0	28.0, 29.5	2.54	P609-ND◆	2.15	34.51	115.05	LN217RPH
	□ 1.8x5.3	Green Diffused	GaP	90	30	4	1.5	565	8.0	28.0, 29.5	2.54	P610-ND◆	2.24	36.00	117.44	LN317GPH
	□ 1.8x5.3	Amber Diffused	GaAsP	90	30	4	1.5	590	8.0	28.0, 29.5	2.54	P611-ND	2.15	34.51	115.05	LN417YPH

◆ ***RoHS Compliant*** † Water Clear Lens when off

Panasonic

LEDs — Level Meters

Fig.	Package Elements	Color (Diffused)	Electro-Optical Characteristics (Ta=25°C) PD (mW)	VR (V)	IF (mA)	IO (mcd)	λp (nm)	Lens Size	Dimensions (mm) Lens Height	Lead Length	Digi-Key Part No.	Price Each 1	10	200	Panasonic Part No.
1	2	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P517-ND	.66	.60	.52	LN02302P
	3	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P520-ND	.98	.90	.77	LN03302P
	3	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P521-ND	.98	.90	.77	LN03402P
	6	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P530-ND	1.95	1.78	1.53	LN06402P
	7	Red	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P531-ND◆	1.75	1.60	1.37	LN07202P
	7	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P532-ND◆	2.28	2.08	1.79	LN07302P
	7	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P533-ND	2.45	2.23	1.92	LN07402P
2	—	Red	70	4	25	0.4	700	□1.75x7.0	7.65	24.1, 25.6, 27.1	P397-ND	1.45	1.32	1.14	LN05201P
3	—	Green	90	4	30	1.0	565	Ø2.0	2.5	2.0	P401-ND	3.85	3.50	3.01	LN10304P

◆ *RoHS Compliant*

Fig. 1

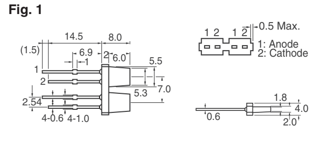

Fig. 2 – 1.75 x 7.0 Rectangular

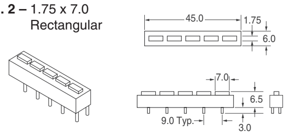

Fig. 3 – 2.8mm Round

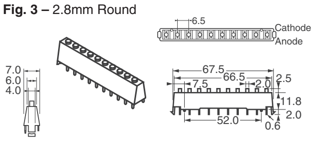

High Brightness LEDs

Fig. 1

1: anode
2: cathode

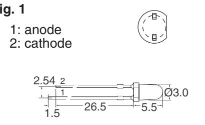

Fig. 2

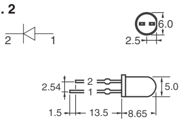

Fig. 3

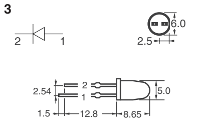

Fig. 4

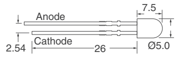

Fig. 5

1: anode
2: cathode

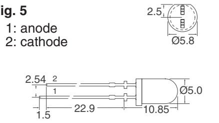

Fig.	Package	Color (Diffused)	IO (mcd @ 5mA) Typ.	Electro-Optical Characteristics (Ta=25°C) PD (mW)	VR (V)	IF (mA)	IO (mcd)	λp (nm)	Lens Size	Dimensions (mm) Lens Height	Lead Length	Digi-Key Part No.	Price Each 1	10	200	Panasonic Part No.
1	T-1	Red†	5.5	70	3	30	25	660	Ø3.0	5.5	26.5, 28.0	P604-ND◆	.38	.35	.31	LN28CALXU
	T-1	Red	3.8	70	3	30	25	660	Ø3.0	5.5	26.5, 28.0	P605-ND◆	.38	.35	.31	LN28RALXU
2	T-1¾	Red†	470	70	3	30	2000	665	Ø5.0	8.65	12.0, 13.5	P408-ND	.96	.88	.76	LN261CALUR
3	T-1¾	Red†	20	70	3	30	85	665	Ø5.0	8.65	12.0, 13.5	P410-ND	.38	.35	.31	LN21CALU
4	T-1¾	Green†	—	90	4	30	120	565	Ø5.0	7.5	26, 27.5	P461-ND◆	.30	.28	.24	LNG305CFT
5	T-1¾	Red†	160	120	3	50	630	660	Ø5.0	8.25	22.9, 24.4	P597-ND◆	.69	.63	.54	LN289CUQ

◆ *RoHS Compliant* † Nondiffused lens. Water clear lens when off.

Optoelectronics LEDs — Two Color

Fig. 1

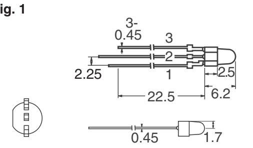

Fig. 2

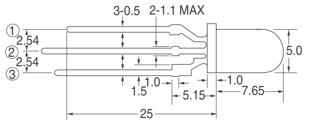

Fig. 3

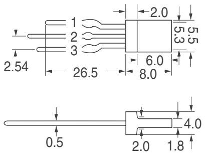

Fig. 4

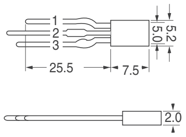

Fig.	Radiation Color/ Lens Color	Electro-Optical Characteristics (Ta=25°C) PD (mW)	IF (mA)	VR (V)	IO (mcd)	λp (nm)	Dimensions (mm) Lens Size	Lead Length	Digi-Key Part No.	Pricing 1	10	200	1,000	Panasonic Part No.
1	*1. Green/3. Orange/White Diffused	90/90	30/30	4/3	8.0/8.0	565/630	Ø3.0	22.5, 24.5, 26.5	P509-ND	.66	6.00	103.20	240.84	LN086WP38
2	*1. Green/3. Red/White Diffused	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P391-ND	.59	5.40	92.88	240.84	LN11WP23
	*1. Green/3. Red/Clear	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P392-ND	.59	5.40	92.88	240.84	LN11CP23
	*1. Amber/3. Red/White Diffused	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P393-ND	.66	6.00	103.20	240.84	LN11WP24
	*1. Amber/3. Green/White Diffused	90	30	4	15.0	565	Ø5.0	24.1, 25.6, 27.1	P395-ND	.66	6.00	103.20	240.84	LN11WP34
	*1. Orange/3. Green/White Diffused	90	30	4	15.0	565	Ø5.0	24.1, 25.6, 27.1	P399-ND	.66	6.00	103.20	240.84	LN11WP38
3	*1. Green/3. Red/White Diffused	70/90	25/30	4/4	.6/4.5	700/565	□1.8x5.3	26.5, 28.0, 29.5	P435-ND	.59	5.40	92.88	240.84	LN117WP23
4	*1. Orange/3. Green/White Diffused	90/90	30/30	4/3	3/2.5	565/630	□2.0x5.0	25.5, 27.0, 28.5	P436-ND	.66	6.00	103.20	240.84	LN142WP38

* Common Cathode

Wide Angle LEDs

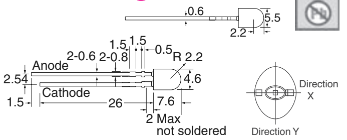

Color	Io mcd Typ	Io mcd Min	(mA) I_F	VF (V) Max	VF (V) Typ	λ_p Typ	Δ_λ Typ	(mA) I_F	IR (μA) Max	IR (V) V_R	Viewing Angle (deg) x	Viewing Angle (deg) y	IFDC Max	IFP‡ Max	Digi-Key Part No.	Pricing 1	10	200	Panasonic Part No.
Red	300	120	20	2.6	1.8	660	20	20	100	3	15	35	30	150	P462-ND	.59	5.40	92.88	LNG295LFCP2U
Green	120	75	20	2.8	2.2	565	30	20	10	4	17	35	30	150	P463-ND	.30	2.75	47.30	LNG395MFTP5U

‡ The condition of IFP is duty 10%, pulse width 1ms.